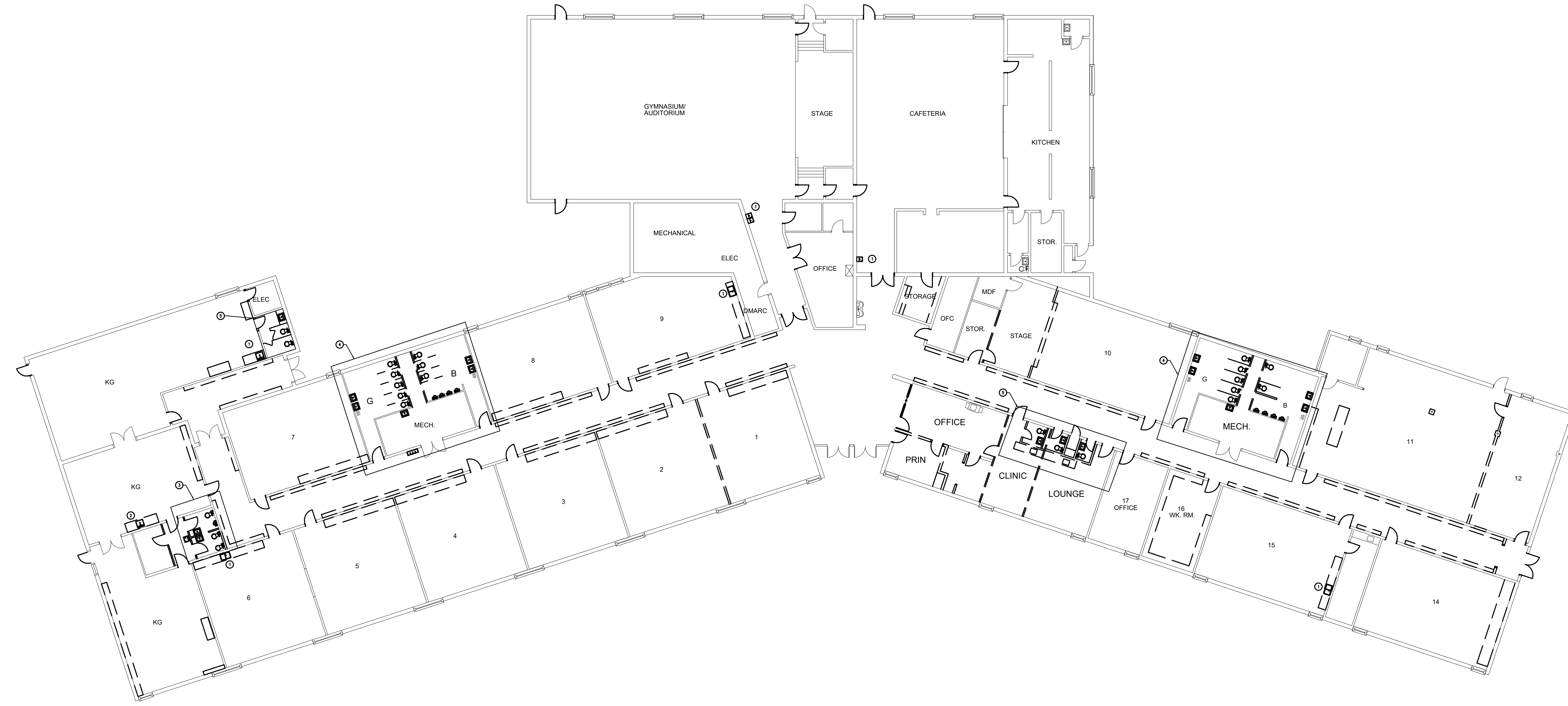


- PLUMBING KEYNOTES: (X)
1. REMOVE EXISTING FIXTURE AND RETURN TO OWNER. PROVIDE TEMPORARY CAP ON WATER, WASTE AND VENT PIPE. PREPARE FOR MODIFICATIONS OF EXISTING SERVICE PIPING IN NEW WORK, FOR INSTALLATION OF NEW FIXTURES. EXISTING VTR SHELL REMAIN AND BE RECONNECTED IN NEW WORK.
  2. REMOVE PLUMBING FIXTURES, SUPPORTS AND ALL ASSOCIATED WATER, WASTE AND VENTS BACK TO SOURCE. COORDINATE WITH ARCHITECT FOR REPAIR OF SLAB.
  3. REMOVE ALL PLUMBING FIXTURES IN TOILETS, SUPPORTS AND ALL ASSOCIATED WATER, WASTE AND VENTS BACK TO SOURCE. COORDINATE WITH ARCHITECT FOR REPAIR OF SLAB.
  4. REMOVE ALL PLUMBING FIXTURES IN TOILETS, SUPPORTS AND ALL ASSOCIATED WATER, WASTE AND VENTS BACK TO SOURCE. COORDINATE WITH ARCHITECT FOR REPAIR OF SLAB. REMOVE MAIN WASTE PIPE BETWEEN TOILETS. MAINTAIN VTR FOR CONNECTION IN NEW WORK.
  5. REMOVE ALL PLUMBING FIXTURES IN TOILET. PROVIDE TEMPORARY CAPS ON WATER AND VENT PIPING. PREPARE AREA FOR INSTALLATION OF PLUMBING FIXTURES IN NEW WORK.



1 PLUMBING DEMO PLAN  
Scale: 1/8" = 1'-0"



\\2024\SDG\TFS Grimes Plan Interiors\DWG\PD101.dwg, 10/29/2024 10:42:22 AM

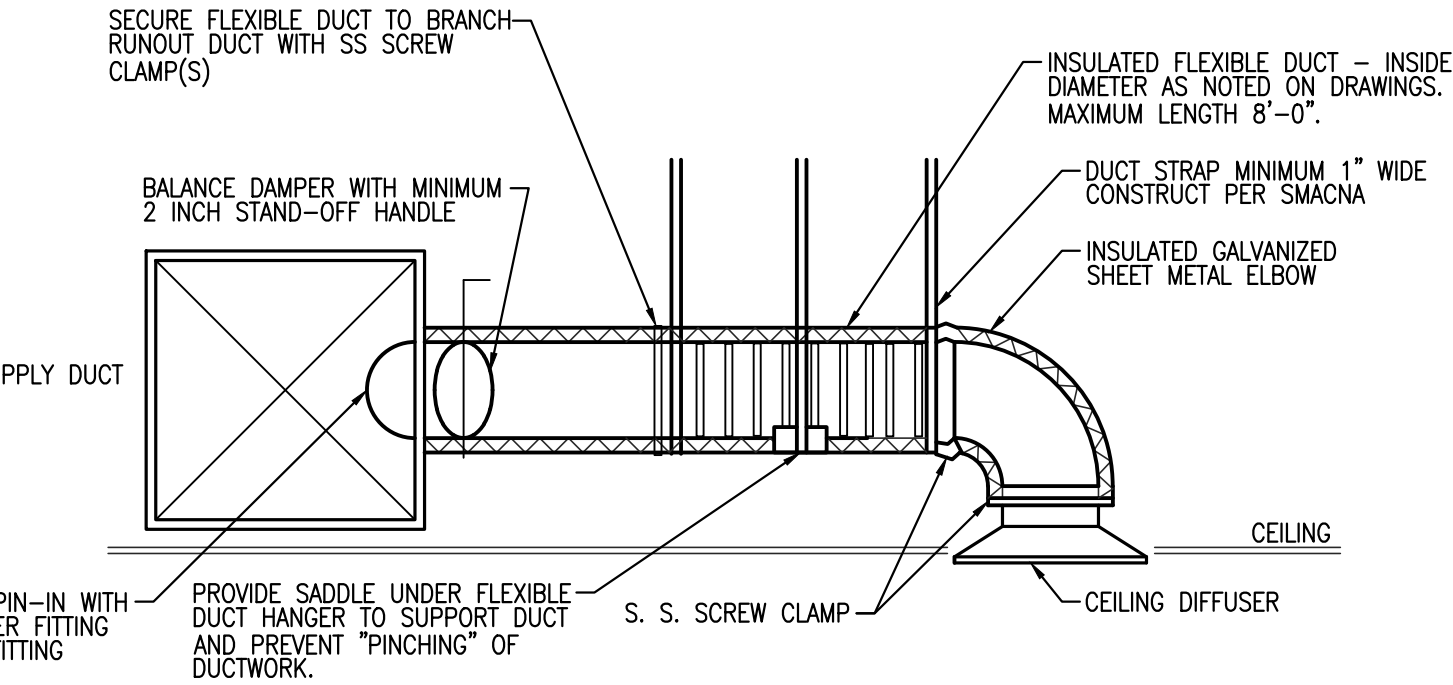


\\024\SDG\TFS Grimes Item Interiors\DWG\M001.dwg, 10/29/2024 10:14:32 AM

| GRILLE, REGISTER AND DIFFUSER SCHEDULE   |         |              |                         |           |  |          |       |           |        |                |
|--|---------|--------------|-------------------------|-----------|--|----------|-------|-----------|--------|----------------|
| MARK   | SERVICE | MANUFACTURER | STYLE                   | MODEL NO. | MATERIAL                               | MOUNTING | FACE  | NECK SIZE | FINISH | NOTES          |
| A  | SUPPLY  | TITUS        | SQUARE CEILING          | TMS       | STEEL                                  | LAY-IN   | 24x24 | PER PLANS | WHITE  | 1,2,5          |
| B  | RETURN  | TITUS        | 3/4"SPACE/35°DEFLECTION | 355RL     | ALUMINUM                               | LAY-IN   | 24x24 | 22x22     | WHITE  | 1,2,3,4,5,6    |
| C  | EXHAUST | TITUS        | 3/4"SPACE/35°DEFLECTION | 355FL     | ALUMINUM                               | SURFACE  | 24x24 | 22x22     | WHITE  | 1,2,3,4,5,7,11 |
| NOTES:   |         |              |                         |           | NOTES:                                 |          |       |           |        |                |
| 1. COORDINATE LOCATION OF AIR DEVICES WITH CEILING GRID, LIGHT LOCATIONS, STRUCTURAL MEMBERS AND ARCH. FEATURES. |         |              |                         |           | 6. PROVIDE WITHOUT SCREW HOLES.        |          |       |           |        |                |
| 2. FINAL FINISH OF AIR DEVICES SHALL BE VERIFIED WITH OWNER.   |         |              |                         |           | 7. PROVIDE FOAM GASKET AT FRAME.       |          |       |           |        |                |
| 3. PROVIDE PLENUM FOR DUCT CONNECTION OR SQUARE TO ROUND NECK, AS REQUIRED.                                      |         |              |                         |           | 8. PROVIDE 1" FILTER FRAME AND FILTER. |          |       |           |        |                |
| 4. PAINT DUCT INTERIOR FLAT BLACK BEHIND AIR DEVICE.   |         |              |                         |           | 9. COUNTER SUNK SCREW HOLES.           |          |       |           |        |                |
| 5. PROVIDE OPPOSED BLADE DAMPER.   |         |              |                         |           | 10. PANEL MOUNTED FRAME.               |          |       |           |        |                |
|  |         |              |                         |           | 11. HEAVY DUTY MOUNTING FRAME          |          |       |           |        |                |

| EXHAUST FAN SCHEDULE             |          |              |                                      |     |               |         |       |              |                    |         |              |
|----------------------------------|----------|--------------|--------------------------------------|-----|---------------|---------|-------|--------------|--------------------|---------|--------------|
| MARK                             | LOCATION | MANUFACTURER | MODEL NO.                            | CFM | E.S.P. I.W.G. | MAX RPM | SONES | H.P. (WATTS) | ELECTRICAL VOLTAGE | TYPE    | ACCESSORIES  |
| EF-4,5,6,7                       | TOILET   | COOK         | ACED-100C15DM                        | 500 | 0.5           | 1715    | 7.3   | 1/8          | 115/1/60           | ROOF    | GBD,BS,CB    |
| EF-3                             | TOILET   | COOK         | GC-148                               | 100 | 0.5           | 1075    | 3.0   | (310)        | 115/1/60           | CEILING | GBD,BS,CB,RH |
| NOTES:                           |          |              | ACCESSORIES:                         |     |               |         |       |              |                    |         |              |
| 1. TIMER CONTROLLED.             |          |              | GBD-GRAVITY BACKDRAFT DAMPER         |     |               |         |       |              |                    |         |              |
| 2. SWITCH WITH LIGHTS.           |          |              | MBD-MOTORIZED BACKDRAFT DAMPER       |     |               |         |       |              |                    |         |              |
| 3. SPEED CONTROL SWITCH AT UNIT. |          |              | ES-BIRD SCREEN                       |     |               |         |       |              |                    |         |              |
| 4. SPEED CONTROL WALL SWITCH.    |          |              | CB-CURB                              |     |               |         |       |              |                    |         |              |
| 5. BELT DRIVE.                   |          |              | DS-DISCONNECT SERVICE                |     |               |         |       |              |                    |         |              |
| 6. DIRECT DRIVE.                 |          |              | RH-ROOF HOOD                         |     |               |         |       |              |                    |         |              |
|                                  |          |              | VCB-VENTED CURB                      |     |               |         |       |              |                    |         |              |
|                                  |          |              | HK-HINGE KIT                         |     |               |         |       |              |                    |         |              |
|                                  |          |              | 7. VIBRATION ISOLATION MOUNTING.     |     |               |         |       |              |                    |         |              |
|                                  |          |              | 8. WALL SWITCH.                      |     |               |         |       |              |                    |         |              |
|                                  |          |              | 9. INTERLOCK WITH HOOD CONTROL PANEL |     |               |         |       |              |                    |         |              |
|                                  |          |              | 10. GREASE BOX AND CUP.              |     |               |         |       |              |                    |         |              |

| ELECTRIC HEATER SCHEDULE  |             |              |            |  |      |      |         |       |             |
|---|-------------|--------------|------------|--|------|------|---------|-------|-------------|
| MARK  | AREA SERVED | MANUFACTURER | MODEL NO.  | AMPS   | W    | BTUs | VOLTAGE | NOTES | ACCESSORIES |
| FFH   | TOILET      | MARKEL       | HF3384D-RP | 8.3  | 2000 | 6826 | 208     | 1     | A,C,D       |
| NOTES:  |             |              |            | ACCESSORIES:                                     |      |      |         |       |             |
| 1. INSTALL FAN FORCED HEATER FLUSH MOUNT TO CEILING. COORDINATE FINAL LOCATION WITH GRILLES, LIGHTS, OTHER CEILING MOUNTED EQUIPMENT, AND ARCHITECTURAL REFLECTED CEILING PLAN. |             |              |            | A. REMOTE THERMOSTAT WITH METAL LOCKING COVER    |      |      |         |       |             |
|   |             |              |            | B. FACTORY INSTALLED TAMPER RESISTANT THERMOSTAT |      |      |         |       |             |
|   |             |              |            | C. DISCONNECT SERVICE                            |      |      |         |       |             |
|   |             |              |            | D. SURFACE MOUNTING ADAPTER                      |      |      |         |       |             |
|   |             |              |            | E. LOUVER OUTLET                                 |      |      |         |       |             |



1 FLEXIBLE DUCT DETAIL

Scale: NTS

| MINI SPLIT SYSTEM OUTDOOR UNIT SCHEDULE   |              |              |              |                                |                                |            |                 |     |      |             |
|---|--------------|--------------|--------------|--------------------------------|--------------------------------|------------|-----------------|-----|------|-------------|
| MARK (OUTDOOR UNIT)   | UNITS SERVED | MANUFACTURER | MODEL NO.    | NOMINAL COOLING CAPACITY (MBH) | NOMINAL HEATING CAPACITY (MBH) | SEER (EER) | ELECTRICAL DATA |     |      | NOTES       |
|   |              |              |              |                                |                                |            | VOLTAGE         | MCA | MOCP |             |
| HPU-1   | FC-1         | LENNOX       | MLB012S4S-1P | 12.0                           | 12.0                           | 21.5       | 208/1/60        | 15  | 15   | 75 1,2,3,4  |
| HPU-2   | FC-2         | LENNOX       | MLB024S4S-1P | 24                             | 29                             | 21.5       | 208/1/60        | 25  | 36   | 135 1,2,3,4 |
|   |              |              |              |                                |                                |            |                 |     |      |             |
| NOTES:  |              |              |              |                                |                                |            |                 |     |      |             |
| 1. COOLING CAPACITIES ARE BASED ON UNIT CFM SUPPLY AIR AND 80°F. EDB/67°F. EWB. WITH 95°F AIR ENTERING CONDENSER. EER IS BASED ON ARI CONDITIONS. |              |              |              |                                |                                |            |                 |     |      |             |
| 2. REFER TO PROJECT MANUAL SPECIFICATIONS FOR ADDITIONAL FEATURES AND REQUIREMENTS.   |              |              |              |                                |                                |            |                 |     |      |             |
| 3. HEATING CAPACITIES ARE BASED ON 47°F O.A., 70°F EAT AT INDOOR FCU.   |              |              |              |                                |                                |            |                 |     |      |             |
| 4. INTERLOCK OPERATION WITH INDOOR FCU'S, INDOOR UNIT POWERED BY OUTDOOR HEAT PUMP UNIT.  |              |              |              |                                |                                |            |                 |     |      |             |
| ACCESSORIES:  |              |              |              |                                |                                |            |                 |     |      |             |
| A. GRANK CASE HEATER  |              |              |              |                                |                                |            |                 |     |      |             |
| B. R410A REFRIGERANT.   |              |              |              |                                |                                |            |                 |     |      |             |
| C. REDD-CHARGED REFRIGERANT PIPING.   |              |              |              |                                |                                |            |                 |     |      |             |
| D. HAIL GUARD.  |              |              |              |                                |                                |            |                 |     |      |             |
| E. UNIT SUPPORT FEET.   |              |              |              |                                |                                |            |                 |     |      |             |
| F. PROVIDE ANCHOR POINTS ON EACH SIDE OF UNIT TO BE SECURED TO STRUCTURE. INSTALL TIE DOWN CABLE ACROSS UNIT TO STRUCTURE.                        |              |              |              |                                |                                |            |                 |     |      |             |

| MINI SPLIT SYSTEM FAN COIL UNIT SCHEDULE                                      |             |              |              |     |                       |                       |            |      |            |                       |
|---|-------------|--------------|--------------|-----|-----------------------|-----------------------|------------|------|------------|-----------------------|
| MARK (INDOOR UNIT)  | AREA SERVED | MANUFACTURER | MODEL NO.    | CFM | NOMINAL COOLING (MBH) | NOMINAL HEATING (MBH) | ELECTRICAL |      | WT. (LBS.) | NOTES                 |
|   |             |              |              |     |                       |                       | VOLTAGE    | RLA  |            |                       |
| FC-1  | IDF         | LENNOX       | MWMC012S4-1P | 330 | 12                    | 13                    | 208/1/60   | 0.25 | 23         | 1,2,3,4,6 A,B,C,D,E,F |
| FC-2  | MDF         | LENNOX       | MWMC024S4-1P | 610 | 24                    | 29                    | 208/1/60   | 0.5  | 55         | 1,2,3,4,5 A,B,C,D,E,F |
| NOTES:  |             |              |              |     |                       |                       |            |      |            |                       |
| 1. COOLING CAPACITY LISTED IS NOMINAL CAPACITY.                               |             |              |              |     |                       |                       |            |      |            |                       |
| 2. R410A REFRIGERANT.   |             |              |              |     |                       |                       |            |      |            |                       |
| 3. POWERED FROM OUTDOOR HPU.  |             |              |              |     |                       |                       |            |      |            |                       |
| 4. HEATING CAPACITY LISTED BASED ON 47°F O.A., 70°F EAT.                      |             |              |              |     |                       |                       |            |      |            |                       |
| 5. FAN CFM LISTED IS FOR HI SETTING.  |             |              |              |     |                       |                       |            |      |            |                       |
| 6. FAN CFM LISTED IS FOR MEDIUM SETTING.                                      |             |              |              |     |                       |                       |            |      |            |                       |
| 7. FAN CFM LISTED IS FOR LOW SETTING.   |             |              |              |     |                       |                       |            |      |            |                       |
| 8. INTERLOCK FC UNIT WITH BUILDING MANAGEMENT SYSTEM FOR EMERGENCY SHUT DOWN. |             |              |              |     |                       |                       |            |      |            |                       |
| ACCESSORIES:  |             |              |              |     |                       |                       |            |      |            |                       |
| A. FILTERS. (CLEANABLE)   |             |              |              |     |                       |                       |            |      |            |                       |
| B. ELECTRONIC EXPANSION VALVE.  |             |              |              |     |                       |                       |            |      |            |                       |
| C. INTERLOCK OPERATION WITH OUTDOOR HEAT PUMP UNIT.                           |             |              |              |     |                       |                       |            |      |            |                       |
| D. HARD WIRED, WALL-MOUNTED CONTROLLER.                                       |             |              |              |     |                       |                       |            |      |            |                       |
| E. CONDENSATE PUMP.   |             |              |              |     |                       |                       |            |      |            |                       |
| F. SUPCO MODEL SLP0530 PRESSURE SENSOR LOCATED AT INDOOR UNIT.                |             |              |              |     |                       |                       |            |      |            |                       |

| MECHANICAL SYMBOL LEGEND |                                 |
|--------------------------|---------------------------------|
|                          | SUPPLY DIFFUSER, 4-WAY THROW    |
|                          | SUPPLY DIFFUSER, 3-WAY THROW    |
|                          | SUPPLY DIFFUSER, 2-WAY THROW    |
|                          | RETURN GRILLE                   |
|                          | EXHAUST GRILLE OR FAN           |
|                          | SIDEWALL AIR DEVICE             |
|                          | RUNOUT BALANCE DAMPER           |
|                          | MANUAL DAMPER                   |
|                          | OPPOSED BLADE DAMPER, MOTORIZED |
|                          | FLEX DUCT RUNOUT                |
|                          | DUCT TRANSITION (ONE LINE)      |
|                          | FIRE DAMPER                     |
|                          | SMOKE DAMPER                    |
|                          | GATE VALVE                      |
|                          | CONTROL VALVE 2-WAY             |
|                          | CONTROL VALVE 3-WAY             |
|                          | ANGLE VALVE                     |
|                          | BALL VALVE                      |
|                          | CHECK VALVE                     |
|                          | UNION                           |
|                          | THERMOSTAT                      |
|                          | SENSOR                          |
|                          | HUMIDISTAT                      |
|                          | DOOR UNDERCUT                   |
|                          | BALANCE DAMPER                  |
|                          | COMBINATION FIRE/SMOKE DAMPER   |

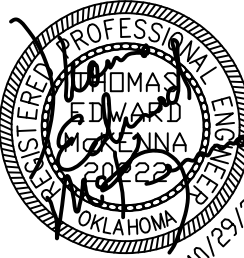
H.V.A.C. GENERAL NOTES:

- WORK SHOWN ON THE DRAWINGS IS TO BE COORDINATED WITH WORK OF ALL OTHER TRADES AND ACTUAL CONDITIONS OF CONSTRUCTION.
- INSTALL ALL EQUIPMENT IN ACCORDANCE WITH CODE REQUIREMENTS AND MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS, ADHERING TO REQUIRED CLEARANCES FOR OPERATION AND SERVING.
- ELECTRICAL REQUIREMENTS OF FURNISHED AND INSTALLED DIVISION 23 EQUIPMENT AND SYSTEM COMPONENTS SHALL BE PROVIDED IN WRITING BY THE DIVISION 23 CONTRACTOR TO THE DIVISION 26 CONTRACTOR FOR INCLUSION AND COORDINATION OF DIVISION 26 WORK.
- PROVIDE FLEXIBLE DUCT CONNECTION TO EXHAUST FANS, ROOF TOP UNITS, FAN COIL UNITS, ETC.
- DUCTWORK CONSTRUCTION AND INSTALLATION SHALL BE PER MOST RECENT SMACNA STANDARDS FOR PRESSURE AND DUCT DIMENSION OF SYSTEM INSTALLATION. ALL DUCT JOINTS SHALL BE SEALED AS NOTED IN THE SPECIFICATIONS.
- DUCT SIZES SHOWN ON DRAWING ARE INSIDE CLEAR.
- MAKE TRANSITION FROM DUCTWORK SIZES SHOWN ON THE DRAWINGS TO EQUIPMENT DUCT CONNECTION SIZES. VERIFY EQUIPMENT CONNECTION SIZES WITH FACTORY CERTIFIED DRAWINGS. MAKE ALL TRANSITIONS PER MOST RECENT SMACNA STANDARDS.
- ALL MAJOR BRANCH DUCTS SHALL BE CONSTRUCTED USING OPPOSED BLADE DAMPERS WITH LOCKING DEVICE OR WITH SPLITTER DAMPER WITH LOCKING DEVICE FOR BALANCE OF DUCT SYSTEM.
- TURNING VANES SHALL BE INSTALLED IN ALL RECTANGULAR 90 DEGREE ELBOWS IN SUPPLY, RETURN AND EXHAUST DUCTWORK, AND AS INDICATED ON THE DRAWINGS.
- USE MINIMUM LENGTH FLEXIBLE DUCT TO AIR DEVICES. (MAXIMUM 8 FT.). USE FLEX DUCT ONLY IN FULLY ACCESSIBLE CEILING SPACES. PROVIDE 90 DEGREE SHEET METAL ELBOW AT CEILING DIFFUSER NECK CONNECTION. PROVIDE SADDLE UNDER FLEXIBLE DUCT HANGER TO SUPPORT DUCT AND PREVENT "PINCHING" OF DUCTWORK. FLEXIBLE DUCT SHALL BE INSTALLED SO AS NOT TO REDUCE CROSS SECTION AREA OF DUCT.
- WHERE DUCT RUNOUTS FROM SECTIONS OF MAIN DUCTWORK TO DIFFUSERS ARE UNEQUAL IN EQUIVALENT LENGTH AND RESULT IN SIGNIFICANT DIFFERENCES IN PRESSURE DROP WHICH REQUIRE PINCHING TAKEOFF DAMPER OR DAMPER AT GRILLE FACE, ADDITIONAL FLEXIBLE DUCT AND/OR ADDITIONAL CHANGES TO DIVISION SHALL BE INSTALLED IN RUNOUT DUCT WITH LEAST PRESSURE DROP IN BRING DUCTS TO EQUIVALENT PRESSURE LOSSES.
- WHERE DUCT TAKE-OFFS TO GRILLES ARE NEAR THE UNIT AND RESULT IN PRESSURE DROPS SIGNIFICANTLY LESS THAN THE FURTHERMOST DIFFUSER BRANCH, THE RUNOUT DUCT SIZE TO THE GRILLE SHALL BE REDUCED FROM THE SCHEDULED RUNOUT SIZE TO INCREASE THE PRESSURE DROP AND PREVENT THE NEED TO "PINCH" THE DAMPER AT THE TAKE-OFF AND/OR GRILLE FACE.
- THE CONTRACTOR SHALL COORDINATE ROUTING AND SIZE OF DUCTWORK WITH ACTUAL FINAL BUILDING CONDITIONS OF STRUCTURE SIZE AND LOCATION, LIGHT LOCATIONS, ARCHITECTURAL FEATURES, AND WORK OF OTHER TRADES. WHERE DUCT SIZES MUST BE REVISED FROM THOSE SHOWN ON THE DRAWINGS, MAINTAIN SAME CROSS SECTIONAL AREA, VELOCITY, AND PRESSURE DROP. WHEN NECESSARY, REROUTE DUCT TO CLEAR OBSTRUCTIONS WITH MINIMUM NUMBER OF FITTINGS AND ELEVATION CHANGES. WHERE DUCT MUST BE SIGNIFICANTLY ALTERED FROM THAT SHOWN ON THE DRAWINGS, NOTIFY THE ARCHITECT PRIOR TO PROCEEDING.
- DIVISION 23 CONTRACTOR SHALL PROVIDE TEST AND BALANCE OF HVAC SYSTEMS. TEST AND BALANCE SHALL BE PERFORMED AND REPORTED AS DESCRIBED BY NEBB OR ARI. FILTERS SHALL BE NEW AND CLEAN. DUCTWORK CLEAN, AND EQUIPMENT CONTROLS AND DEVICES FULLY FUNCTIONAL AT THE TIME OF PERFORMING BALANCE WORK.
- MAINTAIN MINIMUM 10'-0" CLEAR BETWEEN ANY FLUE, VENT OR TOILET EXHAUST AND OUTSIDE AIR INTAKES. WHERE HORIZONTAL DISTANCE CANNOT BE PROVIDED, EXTEND FLUE VENTS 3'-0" ABOVE OUTSIDE AIR INTAKE.
- INSTALL ALL MOTOR DRIVEN EQUIPMENT WITH VIBRATION ISOLATORS AND OR PADS TO REDUCE NOISE TRANSFER. TYPE AND METHOD OF ISOLATION SHALL BE IN CONFORMANCE WITH THOSE DESCRIBED IN THE SPECIFICATIONS FOR THE DUTY, TYPE, AND APPLICATION OF THE EQUIPMENT.
- ALL EQUIPMENT SHALL BE PERMANENTLY LABELED WITH SIGNAGE SECURED TO EQUIPMENT.
- CONDENSATE PIPING SHALL BE AS NOTED ON THE DRAWING, BUT IN NO CASE LESS THAN 3/4 INCHES.
- ROUTE CONDENSATE PIPING TO APPROVED DISCHARGE LOCATION. PROVIDE CONDENSATE TRAP WITH CLEANOUTS AND VENT ON DISCHARGE SIDE OF TRAP FOR ALL UNITS WITH COOLING COILS. TRAP DEPTH SHALL BE A MINIMUM OF THE UNIT TOTAL PRESSURE PLUS 2 INCHES.
- CONDENSATE PIPING INSTALLED WITHIN THE BUILDING SHALL BE FULLY INSULATED AND PROVIDED WITH VAPOR BARRIER.
- REFER TO ARCHITECTURAL DRAWINGS AND DIVISION 1 SPECIFICATIONS FOR DESCRIPTION OF ALTERNATES.

H.V.A.C. GENERAL DEMOLITION NOTES:

- ALL CUTTING AND PATCHING SHALL BE DONE IN COMPLIANCE WITH ARCHITECT'S DIRECTIVE AS TO METHOD AND PROCEDURES.
- THE CONTRACTOR SHALL SCHEDULE WORK WITH THE OWNER'S REPRESENTATIVE. ALL CONSTRUCTION DEBRIS SHALL BE REMOVED AND SPACES CLEANED AT THE END OF EACH WORK DAY. THE CONTRACTOR SHALL MAKE PROVISIONS FOR PLASTIC SHEETING TO CONTROL CONSTRUCTION DUST WITHIN AREA OF CONSTRUCTION.
- MECHANICAL UNITS SERVING AREA OF CONSTRUCTION SHALL BE "OFF" DURING WORK TO PREVENT CONSTRUCTION DUST FROM BEING DISTRIBUTED TO OTHER AREAS OF THE BUILDING. WHERE UNITS MUST CONTINUE TO OPERATE, RETURN AIR FROM AREA OF DEMOLITION SHALL BE FILTERED AT DUCT INLET. FILTERS SHALL BE CHANGED WHEN HOLDING CAPACITY IS REACHED.
- ALL REMOVED HVAC EQUIPMENT SHALL BE RETURNED TO THE OWNER STORAGE LOCATION AS DIRECTED. CARE SHALL BE TAKEN IN THE REMOVAL OF EQUIPMENT TO MAINTAIN SALVAGE VALUE. WHERE EQUIPMENT IS FOUND TO BE DAMAGED OR BEYOND SERVICEABLE CONDITION, THE CONTRACTOR SHALL IDENTIFY EQUIPMENT TO THE OWNER FOR OBSERVATION PRIOR TO REMOVAL.
- WHERE EXISTING ACTIVE SYSTEMS ARE FOUND TO BE DETERIORATED AND REQUIRING REPLACEMENT, PROVIDE A WRITTEN REPORT TO THE OWNER IDENTIFYING WORK REQUIRED, INCLUDE A PROPOSAL FOR PERFORMING THE WORK WITH COSTS AND SCHEDULE TO COMPLETION. DO NOT PROCEED WITH REPAIR WORK UNTIL THE OWNER HAS PROVIDED A WRITTEN DIRECTIVE ACCEPTING THE SUBMITTED PROPOSAL.
- ABANDONED DUCTWORK AND PIPING SYSTEMS TO BE REMOVED THROUGHOUT AREA OF REMODEL. THIS INCLUDES SYSTEMS INVOLVED WITH THIS REMODEL WORK AND PREVIOUSLY ABANDONED AND MODIFIED SYSTEMS.

ENGINEER SEAL



SEAL

PROJECT TITLE  
TRANSITION ACADEMY  
AT  
GRIMES

REVISION

SHEET TITLE  
MECHANICAL  
GENERAL NOTES  
AND SCHEDULES

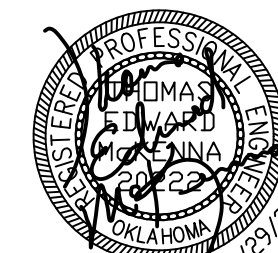
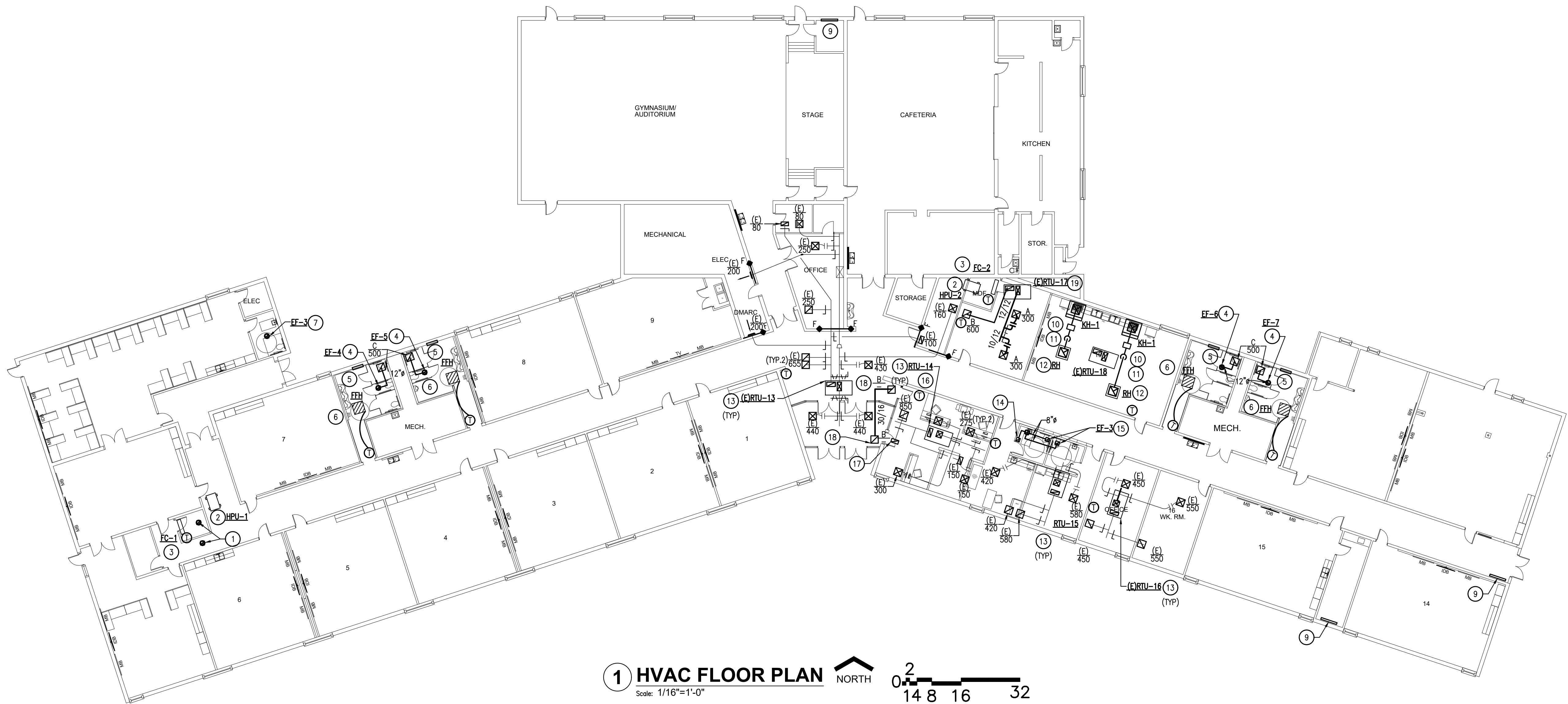


# RUN OUT SCHEDULE

| CFM       | DUCT SIZE |
|-----------|-----------|
| 50 - 75   | 5"        |
| 75 - 115  | 6"        |
| 115 - 160 | 7"        |
| 161 - 220 | 8"        |
| 221 - 290 | 9"        |
| 291 - 490 | 10"       |
| 491 - 700 | 12"       |






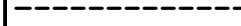
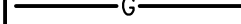
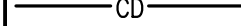
























## MECHANICAL KEYNOTES: (M)

1. REMOVE EXISTING CEILING MOUNTED EXHAUST FAN AND ALL ASSOCIATED CONTROLS, SUPPORTS AND DUCTWORK. CAP ROOF HOOD WITH INSULATED SHEET METAL CAP. INSULATION SHALL BE A MINIMUM OF 2 INCH, 3 POUND DENSITY INSULATION. SLOPE CAP TO ONE SIDE FOR WATER RUN-OFF.
2. INSTALL HEAT PUMP UNIT ON ROOF. PROVIDE EQUIPMENT RAILS. SECURE RAILS TO BUILDING STRUCTURE AND HEAT PUMP TO RAILS. PENETRATE ROOF WITH REFRIGERANT LINES THRU HOODED ROOF CURB OR OTHER APPROVED METHOD BY THE ARCHITECT AND ROOFING MANUFACTURE SO AS NOT TO VOID ROOF WARRANTY.
3. INSTALL FC IN IDF CLOSET ABOVE DOOR. INSTALL HARD WIRED THERMOSTAT ON WALL. COORDINATE WITH TPS ASSIGNED CONTROLS CONTRACTOR FOR ADDITIONAL SENSOR ON BMS. BMS SENSOR IS TO VERIFY OPERATION OF FC NOT CONTROL OF FC. INSTALL CONDENSATE PIPE FROM FC TO MSB IN JANITORS CLOSET. ALL CONDENSATE PIPE INSIDE BUILDING SHALL BE FULL INSULATED WITH A VAPOR BARRIER TYPE OF INSULATION. TERMINATE AT BMS WITH A MINIMUM OF 2 INCH AIR GAP. SUPPORT ALL CONDENSATE PIPING IN VERTICAL WALLS WITH UNI-STRUT AND PIPE CLAMPS. MINIMUM SIZE OF CONDENSATE PIPE IS 1 INCH.
4. REMOVE EXISTING ROOF TOP EXHAUST FAN, KEEP CURB INTACT. INSTALL NEW TOILET EXHAUST FAN ON EXISTING CURB. PROVIDE CURB ADAPTER AS NEEDED. COORDINATE WITH ELECTRICAL FOR POWER. INSTALL NEW DUCTWORK AND GRILLE FOR NEW EXHAUST FAN.
5. REMOVE EXISTING SIDE WALL HEATERS AND ALL ASSOCIATED CONTROLS. COORDINATE WITH ELECTRICAL FOR REMOVAL OF POWER. RETURN HEATER TO OWNER.
6. INSTALL CEILING MOUNTED FORCED FAN HEATER WITH HARD WIRED THERMOSTAT. PROVIDE LOCKING METAL COVER ON THERMOSTAT. INSTALL THERMOSTAT AT 48 INCHES ABOVE FINISHED FLOOR. COORDINATE WITH OWNER FOR FINAL TEMPERATURE SETTINGS.
7. REPLACE EXISTING CEILING MOUNTED EXHAUST FAN WITH NEW. RECONNECT EXISTING EXHAUST DUCTWORK. ALL EXHAUST DUCTWORK FROM CEILING MOUNTED FANS SHALL BE FULLY INSULATED FROM FAN TO ROOF HOOD WITH 2 INCH DUCT WRAP.
9. CONTRACTOR SHALL VERIFY EXISTING CORRIDOR HEATERS ARE OPERATIONAL. REPORT FINDINGS TO OWNER WITH A WRITTEN COST ESTIMATE FOR ANY REPAIRS.
10. INSTALL DENLAR KITCHEN RANGE HOOD MODEL D1030-D-IF-E-NFPA OVER RANGE. HOOD SHALL BE 30" RESIDENTIAL TYPE WITH INLINE EXHAUST, NFPA101 COMPLIANT, FACTORY INSTALLED FIRE SUPPRESSION SYSTEM, ELECTRIC SHUT-OFF, CLOCK BOX, AND MANUAL PULL STATION. INSTALL HOOD PER MANUFACTURER'S REQUIREMENTS AND RECOMMENDATIONS FOR SERVICE AND CLEARANCE FROM COMBUSTIBLES.
11. DUCTWORK FOR RANGE HOOD EXHAUST SHALL COMPLY WITH NFPA 96. INSTALL CLEANOUTS AT ALL CHANGES IN DIRECTION GREATER THAN 45°. PROVIDE ROOF HOOD EQUAL TO GREENHECK MODEL FOR 12x12. PROVIDE SLOPED ROOF HOOD TO MATCH ROOF SLOPE.
12. ALL EXHAUST TERMINATIONS SHALL BE A MINIMUM OF 10 FEET FROM EDGE OF BUILDING AND ANY HVAC OUTDOOR AIR INTAKE.
13. CONTRACTOR SHALL CLEAN EXISTING RTU'S HOUSING, HEAT EXCHANGER, LUBRICATE ALL BEARINGS, REPLACE ALL BELTS AND RECORD CURRENT REFRIGERANT CHARGE. NOTIFY OWNER IN WRITING OF ANY REPAIRS NEEDED. CONTRACTOR SHALL VERIFY AIR BALANCE FROM ALL EXISTING GRILLES. REPLACE ALL TORN INSULATION ON EXISTING DUCTWORK AND REPLACE ANY FLEX DUCTWORK FROM HARD DUCT TO AIR DEVICE. MODIFY FINAL LOCATION OF GRILLES AS NEEDED FOR NEW CEILING GRID LAYOUT, LIGHTS AND ALL ARCHITECTURAL FEATURES.
14. REMOVE EXISTING CEILING MOUNTED EXHAUST FAN AND ALL ASSOCIATED CONTROLS, DUCTWORK AND SUPPORTS. CAP DUCTWORK AT ROOF HOOD WITH A METAL INSULATED CAP. INSULATION SHALL BE A MINIMUM OF 2 INCH, 3 POUND DENSITY INSULATION.
15. REPLACE EXISTING CEILING MOUNTED EXHAUST FAN WITH NEW. CONNECT TO EXISTING DUCTWORK. RELOCATE FAN AS NEEDED BASED ON NEW CEILING GRID, LIGHTS AND ALL ARCHITECTURAL ITEMS. INSULATE ALL DUCTWORK FROM FAN TO ROOF HOOD WITH 2 INCH DUCT WRAP.
16. RELOCATE EXISTING TEMPERATURE SENSOR TO THIS APPROXIMATE LOCATION. INSTALL AT 48 INCHES ABOVE FINISHED FLOOR.
17. REMOVE EXISTING RETURN AIR DEVICE, ALL ASSOCIATED DUCTWORK AND SUPPORTS. CAP OPENING AT MAIN TRUNK WITH INSULATED SHEET METAL CAP.
18. INSTALL NEW TRANSFER DUCT AND GRILLES IN VESTIBULE. PROVIDE A MINIMUM OF TWO NINETY DEGREE ANGLES IN DUCT. LINE INSIDE OF DUCTWORK WITH 2 INCH 3 POUND DENSITY INSULATION FOR SOUND.
19. CONTRACTOR SHALL CLEAN EXISTING RTU'S HOUSING, HEAT EXCHANGER, LUBRICATE ALL BEARINGS, REPLACE ALL BELTS AND RECORD CURRENT REFRIGERANT CHARGE. NOTIFY OWNER IN WRITING OF ANY REPAIRS NEEDED. CONTRACTOR SHALL REMOVE ALL EXISTING DUCTWORK FROM UNIT AND INSTALL NEW DUCTWORK AS SHOWN. MODIFY FINAL LOCATION OF GRILLES AS NEEDED FOR NEW CEILING GRID LAYOUT, LIGHTS AND ALL ARCHITECTURAL FEATURES. INSTALL NEW SENSOR AT 48" ABOVE FINISHED FLOOR.





\\024\SDG1\PS Grimes Item Interiors\Drawings\1001.dwg, 10/28/2024 10:14:35 AM

| PLUMBING SYMBOL LEGEND  |                       |   |                            |
|---|-----------------------|---|----------------------------|
|  |                       | SANITARY SEWER (UNDER FINISHED FLOOR)   |                            |
|  |                       | SANITARY SEWER (ABOVE FINISHED FLOOR)   |                            |
|  |                       | DOMESTIC COLD WATER (C)   |                            |
|  |                       | DOMESTIC HOT WATER (H)  |                            |
|  |                       | DOMESTIC HOT WATER RETURN (HR)  |                            |
|  |                       | PLUMBING VENT   |                            |
|  |                       | NATURAL GAS (G)   |                            |
|  |                       | CONDENSATE (CD)   |                            |
|  | ELBOW DOWN            |  | BALL VALVE                 |
|  | TEE DOWN              |  | BUTTERFLY VALVE            |
|  | ELBOW UP              |  | CHECK VALVE                |
|  | TEE UP                |  | GATE VALVE                 |
|  | CAP                   |  | P&T RELIEF VALVE           |
|  | CONNECT TO EXISTING   |  | SHUT-OFF VALVE IN VERTICAL |
|  | FLOOR CLEANOUT        |  | STRAINER                   |
|  | WALL CLEANOUT         |  | UNION                      |
|  | TWIN CLEANOUT         |  | GAS REGULATOR              |
|  | FLOOR DRAIN           |  | GAS SHUT-OFF VALVE         |
|  | VENT THROUGH ROOF     |  | FREEZE PROOF HOSE BIBB     |
|  | WATER HAMMER ARRESTOR |  | ANGLE VALVE                |

| PLUMBING FIXTURE SCHEDULE   |                  |                     |              |                  |                         |         |         |       |  |
|---|------------------|---------------------|--------------|------------------|-------------------------|---------|---------|-------|--|
| MARK  | FIXTURE          | SIZE                | MANUFACTURER | CARRIER          | PIPING CONNECTIONS (IN) |         |         |       | REMARKS/ACCESSORIES  |
|   | COLOR            | TYPE                | MODEL #      | TRAP             | SOIL                    | VENT    | CW      | HW    |  |
| WC-1 (STD)  | WATER CLOSET     | ELONGATED BOWL      | KOHLER       | FLOOR            | (4)                     | (2)     | (1-1/4) | -     | 1.28 GPF, SLOAN ROYAL OPTIMA 111 ES-S TMO FV, EL-154 XFMR(OPERATE 8 FLUSH VALVES), BEMIS 9500SSCT SEAT, WHITE OPEN FRONT W/SS CHECK HINGE            |
|   | WHITE            | VC                  | K-96053      | INTEGRAL         | 4                       | 2       | 1       | -     |  |
| WC-1H (MAN-ADA)   | WATER CLOSET     | ELONGATED BOWL      | KOHLER       | FLOOR            | (4)                     | (2)     | (1-1/4) | -     | 1.28 GPF, SLOAN ROYAL OPTIMA 111 ES-S TMO FV, EL-154 XFMR(OPERATE 8 FLUSH VALVES), BEMIS 9500SSCT SEAT, WHITE OPEN FRONT W/SS CHECK HINGE            |
|   | WHITE            | VITREOUS CHINA      | K-96057-SS   | INTEGRAL         | 4                       | 2       | 1       | -     |  |
| UR-1&1H (STD)   | URINAL           | WASHOUT             | KOHLER       | ZURN Z1222       | (2)                     | (1-1/2) | (1)     | -     | 0.5 GPF SLOAN ROYAL OPTIMA 186-0.5 ES-S, TMO FV, EL-154 XFMR(OPERATE 8 FLUSH VALVES), TOP SPUD   |
|   | WHITE            | VITREOUS CHINA      | K-4991-ET    | INTEGRAL         | 2                       | 1-1/2   | 3/4     | -     |  |
| L-1H  | LAVATORY         | 20x18               | KOHLER       | ZURN Z1231       | (2)                     | (1-1/2) | (1/2)   | (1/2) | T&S BRASS B-2711-VF05 FAUCET, OFFSET TAILPIECE, GRID STRAINER CP SUPPLIES W/ WHEEL HANDLE STOPS, MIXING VALVE WATTS LFUSG-B.                         |
|   | WHITE            | WALL MOUNT          | K-2867       | 17GA. CP TUBE    | 1-1/4                   | 1-1/4   | 3/8     | 3/8   |  |
| L-3H  | LAVATORY         | 3-STATION           | BRADLEY      | WALL             | (2)                     | (1-1/2) | (1/2)   | (1/2) | SPRAYHEAD WITH INFRARED CONTROL, SOLENOID VALVE, THERMOSTATIC MIXING VALVE.  |
|   | WHITE            | WALL MOUNT          | MG-3/IR      | 17GA. CP TUBE    | 1-1/2                   | 1-1/2   | 1/2     | 1/2   |  |
| SK-2  | SINK             | 22 X 19 X 7-1/2     | ELKAY        | COUNTERTOP       | (2)                     | (2)     | (1/2)   | (1/2) | T&S BRASS B-2731 FAUCET, 1.5 GPM, 9" SWIVEL SPOUT WITH LEVER HANDLE, LK35 STRAINER, CP SUPPLIES, WHEEL HANDLE STOPS, MIXING VALVE WATTS LFUSG-B.     |
|   | SS               | SELF-RIMMING        | LR2219       | 17GA CP TUBE     | 1-1/2                   | 1-1/2   | 3/8     | 3/8   |  |
| SK-1  | LOUNGE SINK      | 33 X 22 X 7-1/2     | ELKAY        | COUNTERTOP       | (2)                     | (2)     | (1/2)   | (1/2) | T&S BRASS B-2731 FAUCET, 1.5 GPM, 8-1/2" SPOUT WITH LEVER HANDLE, LK35 STRAINERS, CP SUPPLIES, WHEEL HANDLE STOPS, MIXING VALVE WATTS LFUSG-B.       |
|   | SS               | DBL COMPARTMENT     | PSR3322      | 17GA CP TUBE     | 1-1/2                   | 1-1/2   | 3/8     | 3/8   |  |
| MSB   | MOP BASIN        | 24x24x10            | FIAT         | FLOOR            | (3)                     | (2)     | (1/2)   | (1/2) | FAUCET 830-AA, BUCKET HOOK, 3/4" HOSE THREAD SPOUT, VACUUM BREAKER, 832-AA HOSE & WALL BRACKET, 36" HOSE, STAINLESS STEEL CORNER WALL GUARD MSG2424. |
|   | STD              | MOLDED STONE        | MSB2424      | 3" DEEP SEAL     | 3                       | 2       | 1/2     | 1/2   |  |
| FD-1  | FLOOR DRAIN      | 6" STRAINER         | ZURN         | FLOOR            | (3)                     | (2)     | -       | -     | ADJUSTIBLE TOP, SEDIMENT BUCKET, TRAP SEAL EQUAL TO PROSET TRAP GAURD  |
|   | STD              | CAST IRON           | Z-415B-Y     | DEEP SEAL C.I.   | 3                       | 2       | -       | -     |  |
| EWC-1   | ELEC. WATER CLR. | 8.0 GPH             | ELKAY        | ZURN Z-1225      | (2)                     | (1-1/2) | (1/2)   | -     | FRONT BUTTON, WALL SPLASH GUARD, SUPPLY W/ STOP VALVE, 120/1/60, BOTTLE FILLING STATION VROWS ON ADA UNIT.   |
|   | STD.             | WALL MOUNTED, HI/LO | VRCL8WSK     | 17GA. CP, P-TRAP | 1-1/4                   | 1-1/4   | 3/8     | -     |  |
| NOTES:<br>1. ALL WALL MOUNTED EQUIPMENT TO BE PROVIDED WITH ADDITIONAL REINFORCING IN WALL CONSTRUCTION.<br>2. ALL LAVATORY AND SINK SUPPLIES TO BE CHROME PLATED WITH STOP VALVES.<br>3. LOCATE FLUSH VALVES FOR HANDICAP ACCESSIBLE WATER CLOSETS WITH ACTUATOR ON WIDE ACCESS SIDE OF FIXTURE.<br>4. INSULATE HANDICAP ACCESSIBLE LAVATORY TAILPIECE, WASTE P-TRAP, HOT WATER SUPPLY, AND COLD WATER SUPPLY WITH TRU-BRO MODEL 102 & 105 |                  |                     |              |                  |                         |         |         |       |  |

PLUMBING GENERAL NOTES:

- A. WORK SHOWN ON THE DRAWINGS IS TO BE COORDINATED WITH WORK OF ALL OTHER TRADES AND ACTUAL CONDITIONS OF CONSTRUCTION.
- B. VERIFY LOCATION AND SIZE OF ALL EXISTING PLUMBING SYSTEM INDICATED TO BE TIED-TO, OR REVISED FOR NEW WORK. NOTIFY THE ARCHITECT OF ANY DISCREPANCIES IMMEDIATELY.
- C. COORDINATE LOCATION AND SIZE OF UTILITY SERVICES WITH CIVIL DRAWINGS PRIOR TO BUILDING ROUGH-IN.
- D. LAY OUT THE PLUMBING SYSTEM IN CAREFUL COORDINATION WITH THE DRAWINGS, DETERMINING PROPER ELEVATION FOR ALL COMPONENTS OF THE SYSTEM. FOLLOW THE GENERAL LAYOUT SHOWN ON DRAWINGS IN ALL CASES EXCEPT WHERE OTHER WORK MAY INTERFERE.
- E. INSTALL PIPING PARALLEL AND PERPENDICULAR TO BUILDING WALLS AND PARTITIONS. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONED LOCATIONS OF WALLS, DOORS AND FEATURES.
- F. LAY OUT PIPES TO FALL WITHIN PARTITIONS OR CHASES. DO NOT REQUIRE FURRING OTHER THAN THOSE SHOWN ON THE DRAWINGS.
- G. DO NOT INSTALL DOMESTIC WATER PIPING IN EXTERIOR WALLS. WHERE BUILDING DESIGN FORCES INSTALLATION OF PIPING IN EXTERIOR WALLS, INSTALL PIPING ON ROOM SIDE OF EXTERIOR WALL INSULATION AND INCREASE PIPE INSULATION THICKNESS REQUIRED TO NEXT STANDARD THICKNESS WITH A MINIMUM THICKNESS OF 1-1/2 INCHES.
- H. NO FIXTURE TRAP SHALL BE INSTALLED INSIDE EXTERIOR WALLS.
- I. MAKE CHANGES IN PIPE SIZE NOTED ON THE PLANS AFTER LAST FITTING OF LARGER PIPE. WHEN SUPPLY PIPES ARE LARGER THAN EQUIPMENT TAPINGS, REDUCE SIZE IMMEDIATELY PRIOR TO ENTRY.
- J. MAKE CHANGES IN DIRECTION WITH MANUFACTURED STANDARD PIPE FITTINGS.
- K. CAP ALL PIPE OPENINGS DURING CONSTRUCTION.
- L. LABEL PIPING TO IDENTIFY SYSTEM TYPE AND DUTY. FOR EXISTING BUILDINGS, FOLLOW ESTABLISHED IDENTIFICATION NOMENCLATURE.
- M. COORDINATE LOCATION AND METHOD OF ATTACHMENT OF HANGERS AND SUPPORTS FOR PIPING SYSTEM TO BUILDING STRUCTURE WITH THE ARCHITECT AND STRUCTURAL ENGINEER. ESTABLISH PROPOSED LOCATIONS OF SYSTEM PIPE ANCHORS AND OBTAIN APPROVAL FROM THE ARCHITECT AND STRUCTURAL ENGINEER.
- N. SLEEVE PIPING THROUGH EXTERIOR WALLS, FIRE AND SMOKE RATED WALLS AND ASSEMBLIES, ON GRADE SLAB FLOORS, ANNULAR SPACE BETWEEN PIPE AND SLEEVE SHALL BE CAULKED AND SEALED. FIRE RATED PENETRATIONS SHALL BE FIRE STOPPED TO MEET RATING OF CONSTRUCTION PENETRATED. EXTEND SLEEVES A MINIMUM OF 2 INCH ABOVE FLOOR PENETRATIONS IN POTENTIALLY WET AREAS SUCH AS MECHANICAL AND EQUIPMENT ROOMS.
- O. DOMESTIC WATER PIPING SHALL BE INSTALLED TO SLOPE TO DRAIN POINTS. WHERE CONDITIONS DICTATE TRAPPED SECTION OF PIPING, A DRAIN VALVE OR CAPPED TEE SHALL BE INSTALLED TO FACILITATE DRAINING OF THE TRAPPED SECTION OF PIPING.
- P. THOROUGHLY FLUSH DOMESTIC WATER PIPING. SCREENED OUTLETS SHALL BE REMOVED DURING FLUSHING PROCESS AND REINSTALLED AT COMPLETION.
- Q. INSULATE ALL DOMESTIC HOT AND COLD WATER PIPING.
- R. COPPER AND PLASTIC PIPING INSTALLED IN STUD WALLS SHALL BE PROTECTED WITH MINIMUM 1/16 INCH SHIELD PLATES EXTENDING BEYOND THE PIPE IN ALL DIRECTIONS.
- S. INSTALL SHUT-OFF VALVES IN HOT WATER AND COLD WATER LINES AHEAD OF CONNECTIONS TO ALL PLUMBING FIXTURES & EQUIPMENT.
- T. REVIEW CONNECTION REQUIREMENTS OF ACTUAL EQUIPMENT FURNISHED PRIOR TO ROUGH-IN. (THIS INCLUDES EQUIPMENT FURNISHED BY MECHANICAL CONTRACTOR, ANY OTHER DIVISION WORK, OR THE OWNER.) ADJUST ROUGH-IN TO MEET INSTALLATION REQUIREMENTS.
- U. REFER TO ARCHITECTURAL DRAWINGS FOR ELEVATIONS AND DIMENSIONED LOCATIONS OF PLUMBING FIXTURES. FIXTURES DESIGNATED FOR HANDICAP USE SHALL BE INSTALLED TO MEET MOST CURRENT APPLICABLE ADA AND/OR ANSI REQUIREMENTS FOR INSTALLATION CLEARANCE AND ACCESS.
- V. FLOOR DRAINS AND CLEANOUTS SHALL BE FURNISHED WITH TOP AND TRIM COMPATIBLE WITH FLOOR COVERING MATERIAL. REFER TO ARCHITECTURAL DRAWINGS FOR FLOOR FINISH ALTERNATES AFFECTING FLOOR DRAIN AND CLEANOUT TRIM REQUIREMENTS.
- W. ALL FLOOR DRAINS TO HAVE A MINIMUM WATER SEAL OF 3 INCHES.
- X. SLOPE FLOOR TO DRAIN AS NOTED ON THE ARCHITECTURAL DRAWINGS. FLOOR DRAINS SHALL NOT BE INSTALLED WITH "DUCK NEST" AROUND DRAIN.
- Y. PROVIDE FUNNEL RECEPTOR FOR FLOOR DRAINS WHERE REQUIRED TO PREVENT SPILLAGE FROM INDIRECT WASTE LINES.
- Z. FLOOR CLEANOUTS SHALL BE LOCATED A MINIMUM OF 18 INCHES CLEAR FROM WALLS AND OBSTRUCTIONS TO SERVICE.
- AA. LOCATE CLEANOUTS AT CHANGES OF DIRECTION AND NO MORE THAN 50-FT. O/C. INSIDE THE BUILDING AND 100 FT. O/C. FOR EXTERIOR PIPING. PROVIDE ADDITIONAL CLEANOUTS AS NOTED AND/OR REQUIRED TO FULLY CLEAN AND SERVICE PIPING SYSTEMS.
- AB. INSTALL A CLEANOUT AT THE FOOT OF EACH SINK WASTE STACK.
- AC. PROVIDE ACCESS DOORS FOR ALL INACCESSIBLE VALVES AND CLEANOUTS.
- AD. COORDINATE LOCATION OF TERMINATION OF VENT PIPING WITH OTHER TRADES AND ARCHITECTURAL FEATURES AND CONDITIONS. MAINTAIN REQUIRED CLEARANCES TO OUTSIDE AIR INTAKES, WINDOWS, ETC. AS REQUIRED BY LOCALLY ACCEPTED CODE.
- AE. RUN ALL DRAIN LINES FROM EQUIPMENT OVERFLOW RECEIVERS, ETC. TO FLOOR/ HUB DRAINS. DRAIN LINES SHALL BE HARD DRAWN COPPER INSTALLED WITH MINIMUM 1/8 INCH PER FOOT SLOPE SECURED BY GUIDES AND SUPPORTS FOR PIPE SIZE SHOWN. NO DRAIN LINE TO BE SMALLER THAN 3/4 INCH. INSTALL TEE AT EACH ELBOW OF CONDENSATE DRAIN WITH CLEANOUT PLUG ON BLIND TEE.
- AF. REFER TO ARCHITECTURAL DRAWINGS AND DIVSION 1 SPECIFICATIONS FOR DESCRIPTION OF ALTERNATES.

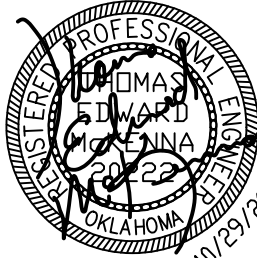
PLUMBING GENERAL DEMOLITION NOTES:

- A. ALL ABANDONED PIPING TO BE REMOVED AND CAPPED AT LOCATION OF PENETRATION INTO AREA OF REMODEL. PIPING SHALL BE LABELED AS ABANDONED FOR FUTURE REFERENCE. ANY ABANDONED PIPING WHICH MUST BE LEFT IN PLACE IS TO BE LABELED AS TO SERVICE AND NOTED AS ABANDONED.
- B. ALL EXISTING ACTIVE SYSTEM PIPING INSULATION DAMAGED DURING DEMOLITION WORK SHALL BE REPAIRED.
- C. ALL TERMINATION LOCATIONS AND EXISTING PIPING SYSTEMS LEFT IN PLACE, BUT ABANDONED SHALL BE RECORDED ON THE RECORD DRAWINGS. NOTATION OF DIMENSIONED LOCATION AND VALVING SHALL BE INCLUDED ON THE RECORDED DRAWINGS.
- D. ALL CUTTING AND PATCHING SHALL BE DONE IN COMPLIANCE WITH ARCHITECT'S DIRECTIVE AS TO METHOD AND PROCEDURES.
- E. THE CONTRACTOR SHALL SCHEDULE WORK WITH THE OWNER'S REPRESENTATIVE. ALL CONSTRUCTION DEBRIS SHALL BE REMOVED AND SPACES CLEANED AT THE END OF EACH WORK DAY. THE CONTRACTOR SHALL MAKE PROVISIONS FOR PLASTIC SHEETING TO CONTROL CONSTRUCTION DUST WITHIN AREA OF CONSTRUCTION.
- F. ABANDONED PLUMBING SYSTEM PIPING SHALL BE CAPPED BEHIND FINISHED SURFACES. RECORD DRAWINGS SHALL NOTE LOCATION OF CAPPED PIPING.
- G. ALL REMOVED PLUMBING EQUIPMENT SHALL BE RETURNED TO OWNER'S STORAGE LOCATION AS DIRECTED. CARE SHALL BE TAKEN IN THE REMOVAL OF EQUIPMENT TO MAINTAIN SALVAGE VALUE. WHERE EQUIPMENT IS FOUND TO BE DAMAGED OR BEYOND SERVICEABLE CONDITION, THE CONTRACTOR SHALL IDENTIFY EQUIPMENT TO THE OWNER FOR OBSERVATION PRIOR TO REMOVAL.
- H. WHERE EXISTING ACTIVE PIPING SYSTEMS ARE FOUND TO BE DETERIORATED AND REQUIRING REPLACEMENT, PROVIDE A WRITTEN REPORT TO THE OWNER IDENTIFYING WORK REQUIRED. INCLUDE A PROPOSAL FOR PERFORMING THE WORK WITH COSTS AND SCHEDULE TO COMPLETION. DO NOT PROCEED WITH REPAIR WORK UNTIL THE OWNER HAS PROVIDED A WRITTEN DIRECTIVE ACCEPTING THE SUBMITTED PROPOSAL.
- I. ALL EXISTING SANITARY LINES LEFT FOR REUSE AND TIED INTO FOR NEW SANITARY WASTE SHALL BE RODDED CLEAN.
- J. COORDINATE DOWN TIME WITH OWNER PRIOR TO SCHEDULING WORK ON ANY ACTIVE PLUMBING PIPING SYSTEM (WASTE, WATER, VENT). PLAN AND SCHEDULE WORK IN FULL COORDINATION AND COOPERATION WITH THE OWNER, GIVING ADEQUATE NOTICE FOR THE OWNER TO SCHEDULE PROCEDURES AND PROCURE NECESSARY TEMPORARY SUPPLIES.



TULSA PUBLIC SCHOOLS  
TRANSITION ACADEMY AT GRIMES  
3212 E 56TH STREET  
TULSA, OK 74105

ENGINEER SEAL



SEAL

PROJECT TITLE  
TRANSITION  
ACADEMY  
AT  
GRIMES

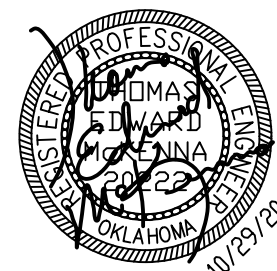
REVISION

SHEET TITLE  
PLUMBING  
GENERAL NOTES  
AND SCHEDULES  
DATE: 10/29/2024

SHEET NO.

P001





KEYNOTES: ①

1. INSTALL NEW SK-1 IN NEW MILLWORK. MODIFY EXISTING WASTE, WATER AND VENT PIPING TO ACCOMMODATE NEW FIXTURE CONNECTIONS. PROVIDE NEW SHUT-OFF VALVES AND RUN-OUT PIPING. PROVIDE THERMOSTATIC MIXING VALVE.



1 OVERALL PLUMBING PLAN  
Scale: 1/16" = 1'-0"

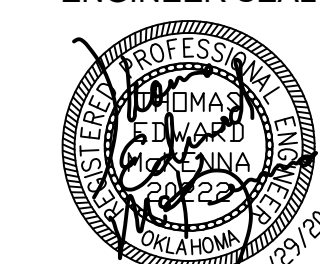


X:\2024\SDG\TPS Grimes Item Interiors\Drawings\101.dwg, 10/28/2024 10:43:41 AM



TULSA PUBLIC SCHOOLS  
TRANSITION ACADEMY AT GRIMES  
3212 E 56TH STREET  
TULSA, OK 74105

ENGINEER SEAL



SEAL

|               |                                       |
|---------------|---------------------------------------|
| PROJECT TITLE | TRANSITION<br>ACADEMY<br>AT<br>GRIMES |
|---------------|---------------------------------------|

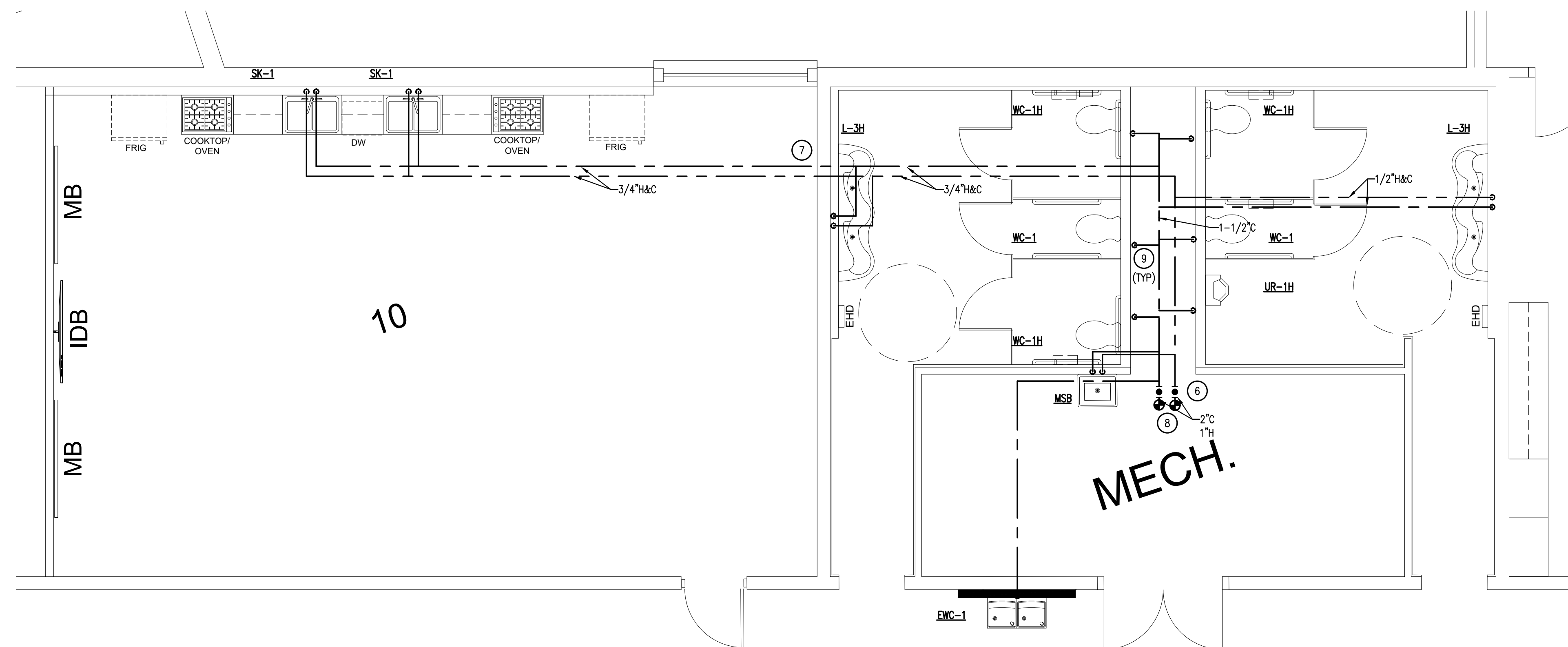
REVISION

|                            |  |
|----------------------------|--|
| SHEET TITLE                |  |
| ENLARGED PLUMBING<br>PLANS |  |

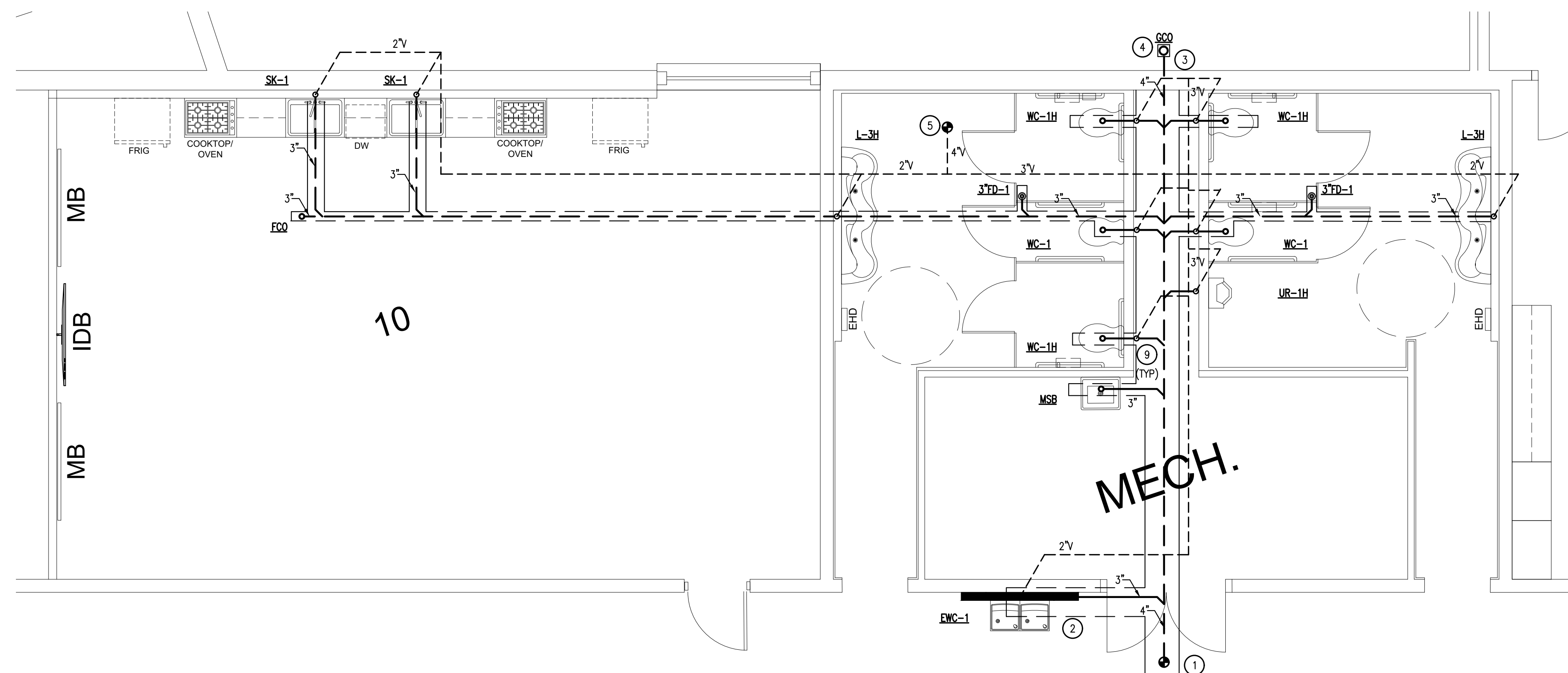
DATE: 10/29/2024

SHEET NO

P102



2 ENLARGED DOMESTIC WATER PLAN-NEW

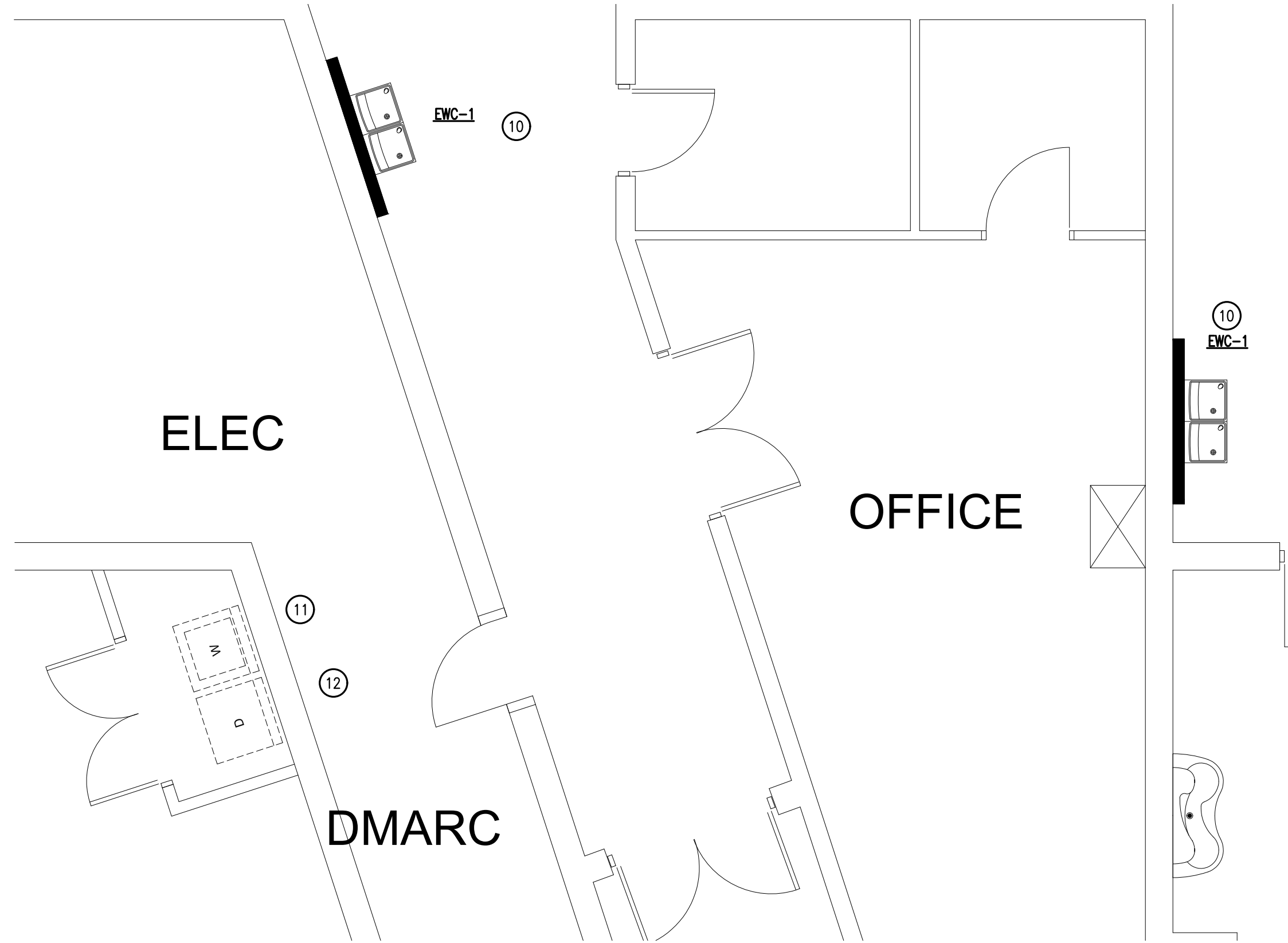


**1 ENLARGED WASTE AND VENT PLAN-NEW**  
Scale: 1/4" = 1'-0"  NORTH

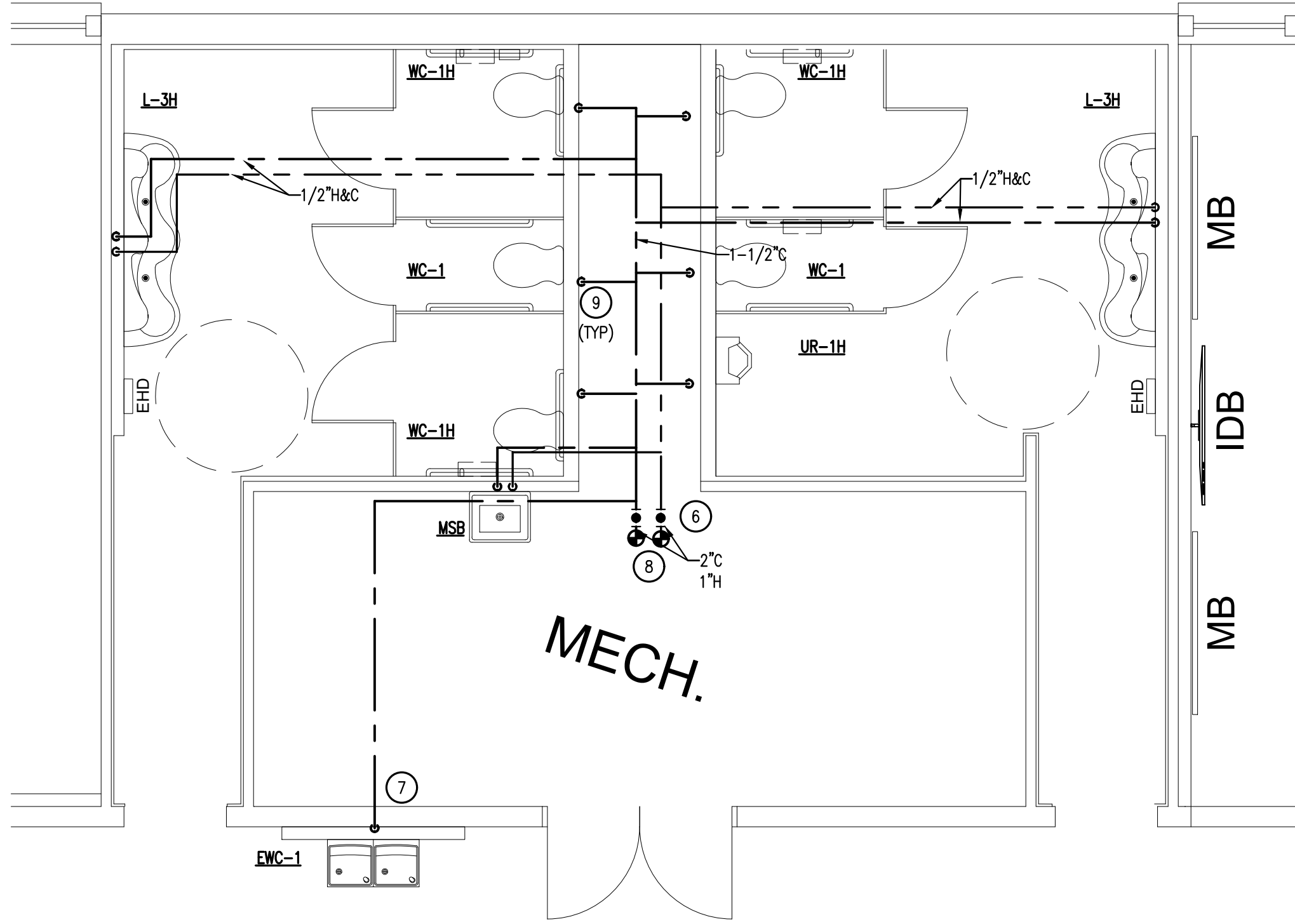
KEYNOTES: (X)

1. CONNECT NEW SEWER TO EXISTING AT THIS APPROXIMATE LOCATION. CONTRACTOR SHALL VERIFY EXACT LOCATION, INVERT AND SIZE OF EXISTING SEWER. NOTIFY ENGINEER IF INVERT OR SIZE IS NOT OBTAINABLE FOR CONNECTION.
2. AREAS OF SLAB CUTS. COORDINATE WITH ARCHITECT FOR REPAIR OF SLAB.
3. SLEEVE ALL PIPE PASSING THROUGH FOOTINGS.
4. ALL EXTERIOR CLEANOUTS SHALL BE SET IN CONCRETE PAD MINIMUM 24" SQUARE AND 8 INCHES THICK.
5. CONNECT NEW VENT SYSTEM TO EXISTING VTR.
6. INSTALL BLUE DOT ON CEILING GRID TO INDICATE LOCATION OF VALVES. ALL VALVES SHALL BE FULLY ACCESSIBLE.
7. SEAL ALL PENETRATIONS THROUGH FIRE WALLS. FIRE STOPPING SHALL MEET FIRE RATING OF WALLS.
8. CONNECT NEW WATER PIPING TO EXISTING AT THIS APPROXIMATE LOCATION. CONTRACTOR SHALL VERIFY EXACT LOCATION OF EXISTING WATER PIPE. NOTIFY ENGINEER IF WATER PIPE SIZES ARE SMALLER THAN THE NEW PIPE TO BE CONNECTED.
9. SECURE PIPING TO VERTICAL WALL IN CHASE WITH UNIT-STRUT AND PIPE CLAMPS.

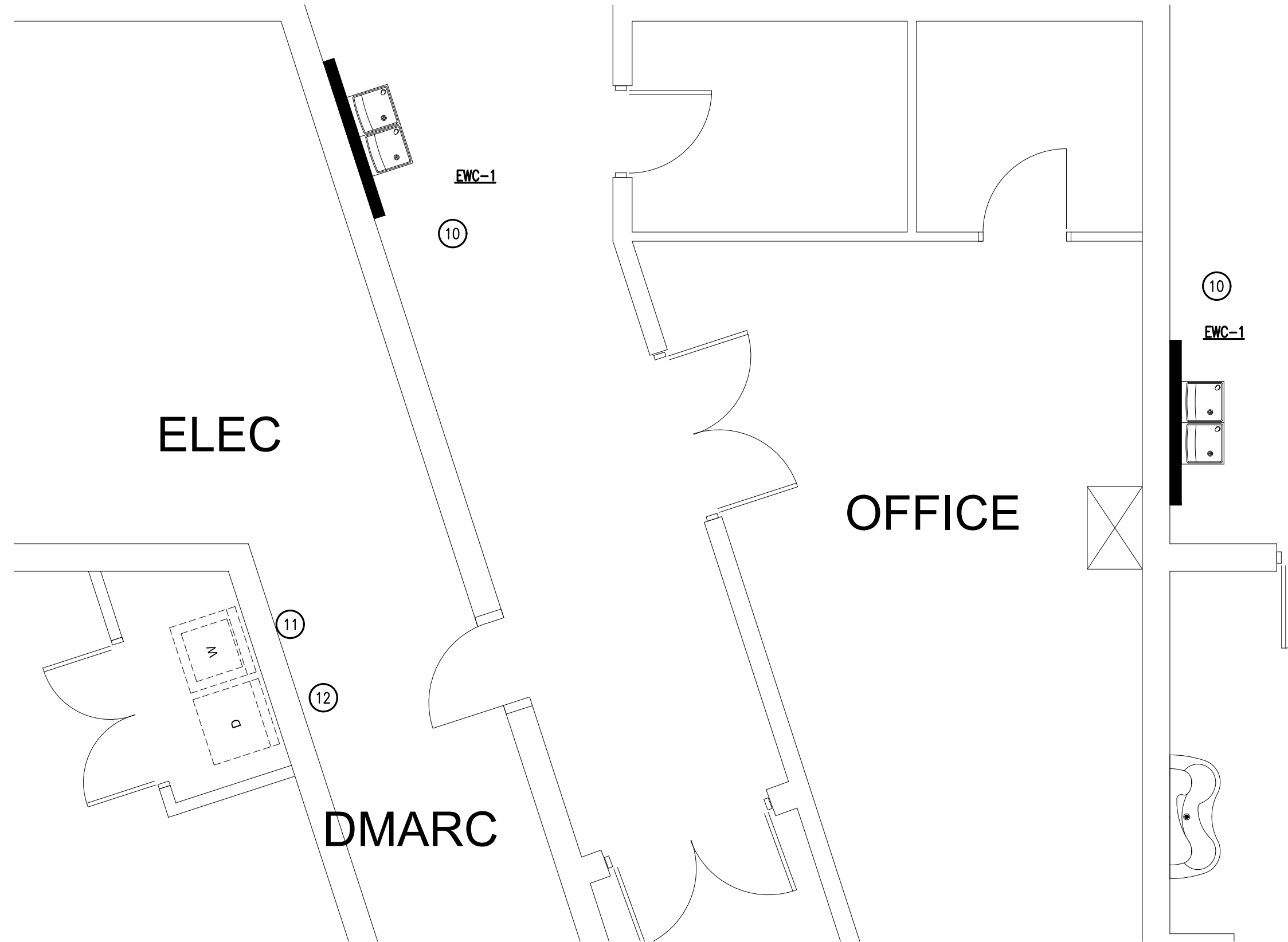




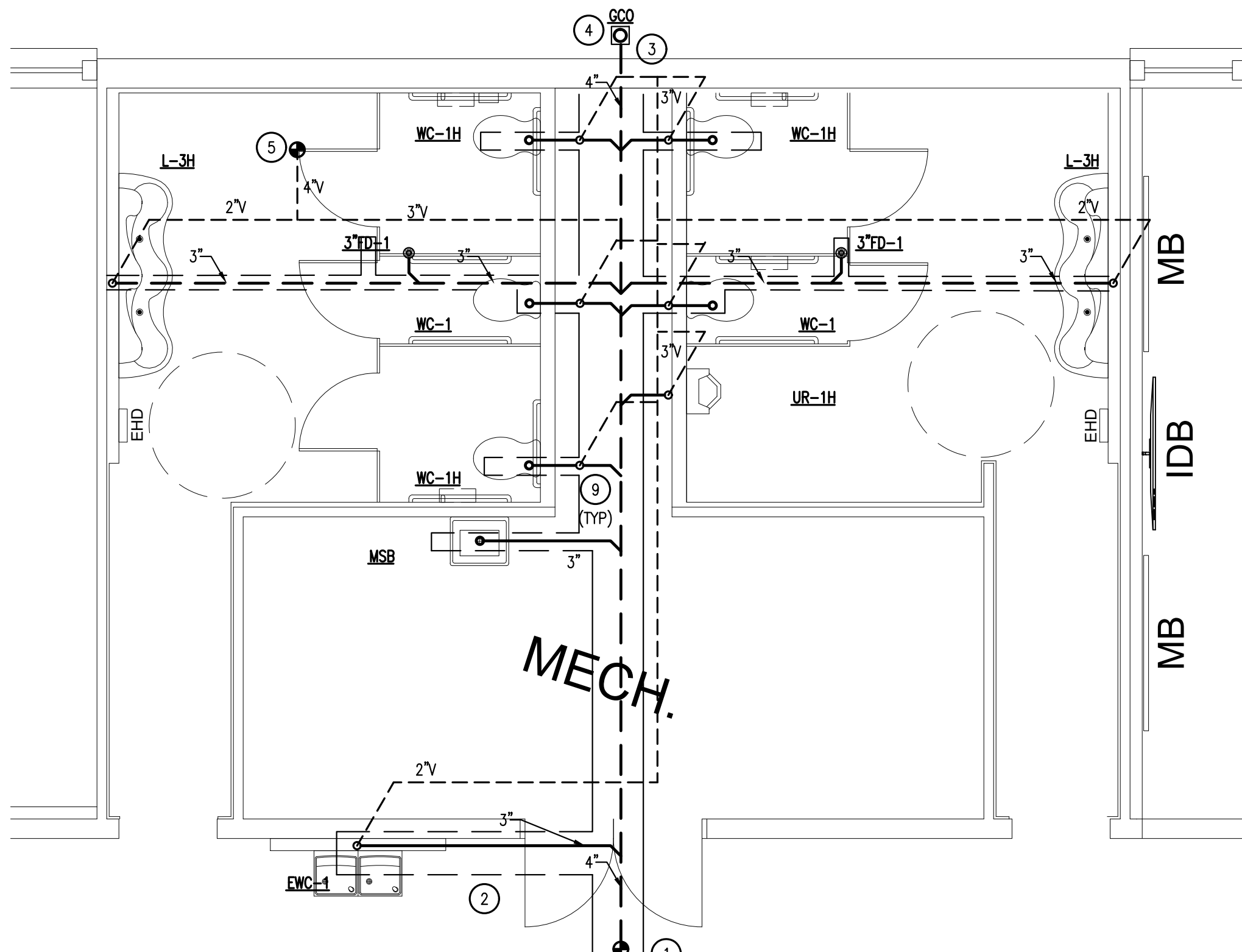
4 ENLARGED DOMESTIC WATER PLAN-NEW  
Scale: 1/4" = 1'-0" NORTH



3 ENLARGED DOMESTIC WATER PLAN-NEW  
Scale: 1/4" = 1'-0" NORTH

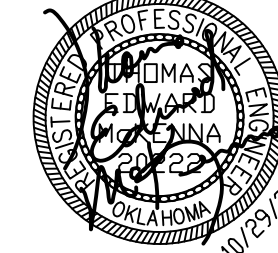


2 ENLARGED WASTE AND VENT PLAN-NEW  
Scale: 1/4" = 1'-0" NORTH

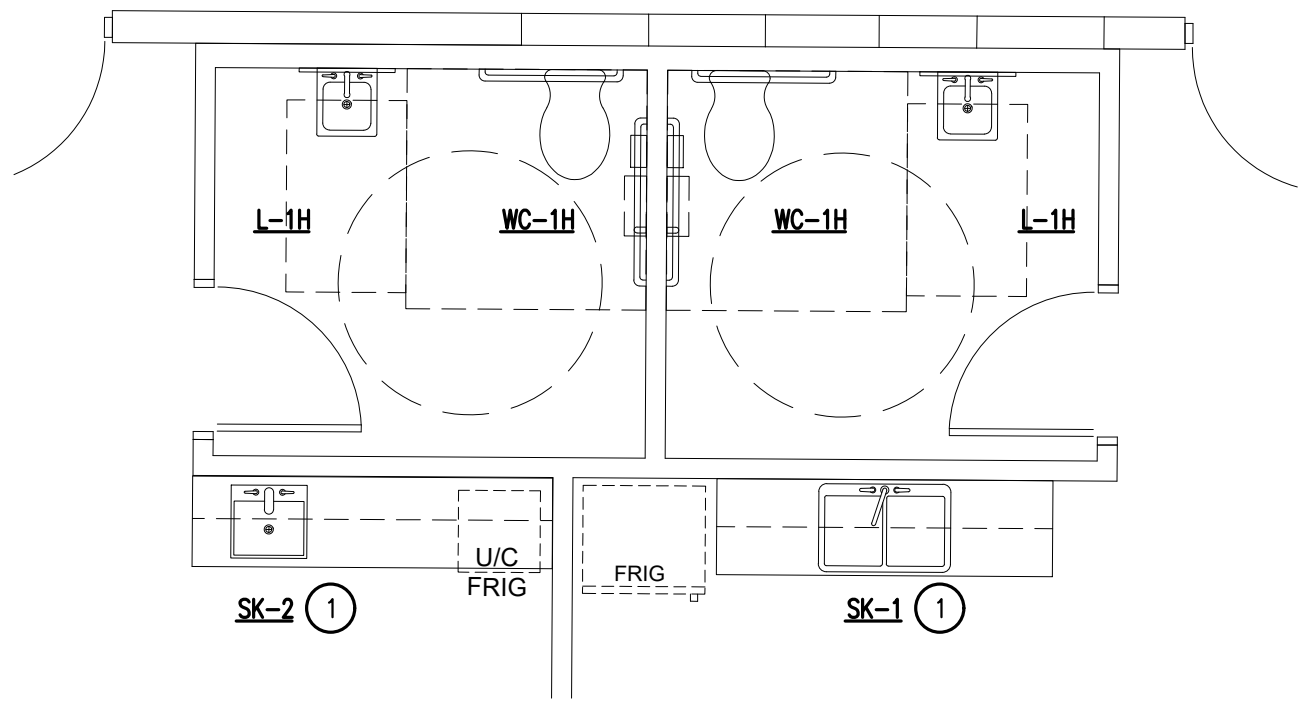


1 ENLARGED WASTE AND VENT PLAN-NEW  
Scale: 1/4" = 1'-0" NORTH

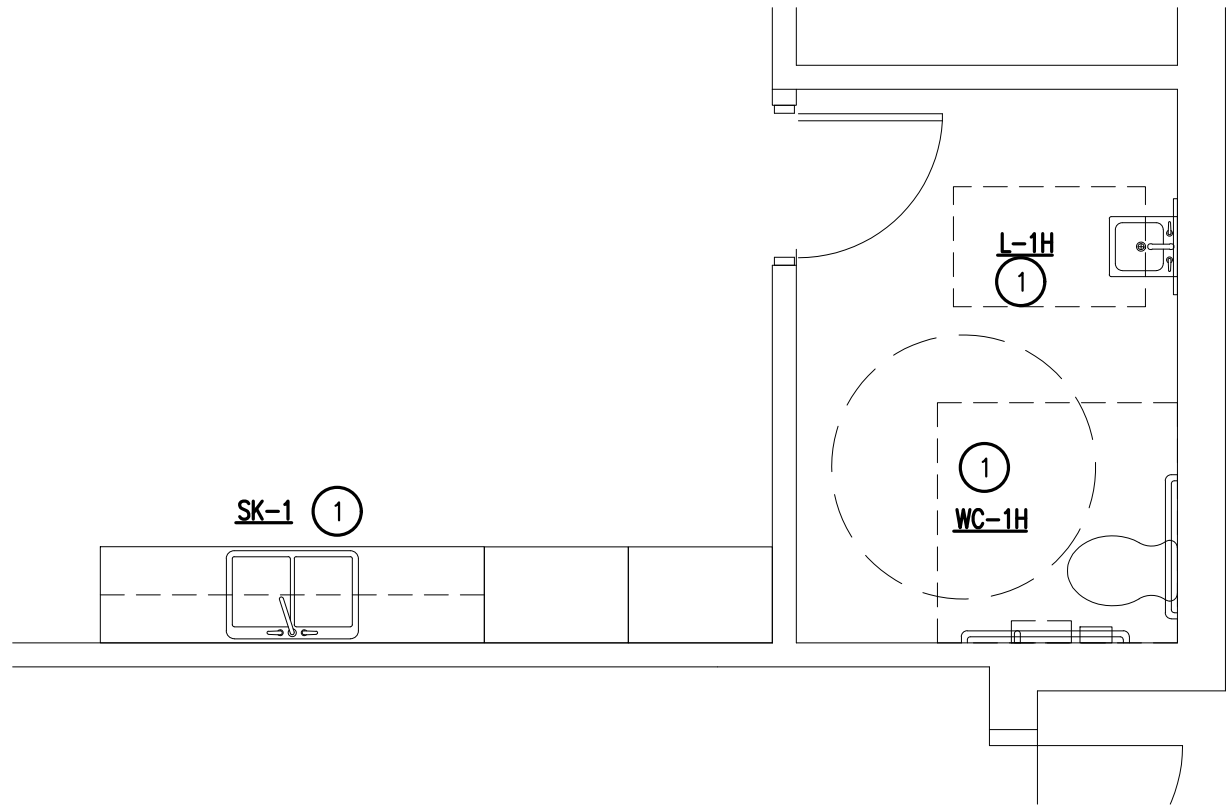
- KEYNOTES: (X)
1. CONNECT NEW SEWER TO EXISTING AT THIS APPROXIMATE LOCATION. CONTRACTOR SHALL VERIFY EXACT LOCATION, INVERT AND SIZE OF EXISTING SEWER. NOTIFY ENGINEER IF INVERT OR SIZE IS NOT OBTAINABLE FOR CONNECTION.
  2. AREAS OF SLAB CUTS. COORDINATE WITH ARCHITECT FOR REPAIR OF SLAB.
  3. SLEEVE ALL PIPE PASSING THROUGH FOOTINGS.
  4. ALL EXTERIOR CLEANOUTS SHALL BE SET IN CONCRETE PAD MINIMUM 24" SQUARE AND 8 INCHES THICK.
  5. CONNECT NEW VENT SYSTEM TO EXISTING VTR.
  6. INSTALL BLUE DOT ON CEILING GRID TO INDICATE LOCATION OF VALVES. ALL VALVES SHALL BE FULLY ACCESSIBLE.
  7. SEAL ALL PENETRATIONS THROUGH FIRE WALLS. FIRE STOPPING SHALL MEET FIRE RATING OF WALLS.
  8. CONNECT NEW WATER PIPING TO EXISTING AT THIS APPROXIMATE LOCATION. CONTRACTOR SHALL VERIFY EXACT LOCATION OF EXISTING WATER PIPE. NOTIFY ENGINEER IF WATER PIPE SIZES ARE SMALLER THAN THE NEW PIPE TO BE CONNECTED.
  9. SECURE PIPING TO VERTICAL WALL IN CHASE WITH UNIT-STRUT AND PIPE CLAMPS.
  10. INSTALL NEW EWC AT THIS APPROXIMATE LOCATION. MODIFY EXISTING WATER, WASTE AND VENT PIPING TO ACCOMMODATE NEW FUTURE SERVICE LOCATIONS.
  11. INSTALL GUY GRAY WASHER BOX FOR NEW CLOTHES WASHER. MODIFY EXISTING WATER, WASTE AND VENT PIPING TO ACCOMMODATE NEW FUTURE SERVICE CONNECTIONS.
  12. INSTALL 4" DRYER VENT, TERMINATE THRU ROOF WITH GOOSENECK TERMINATION. TERMINATE WITH GOFGOOSEVENT MODEL RG4 OR SIMILAR.



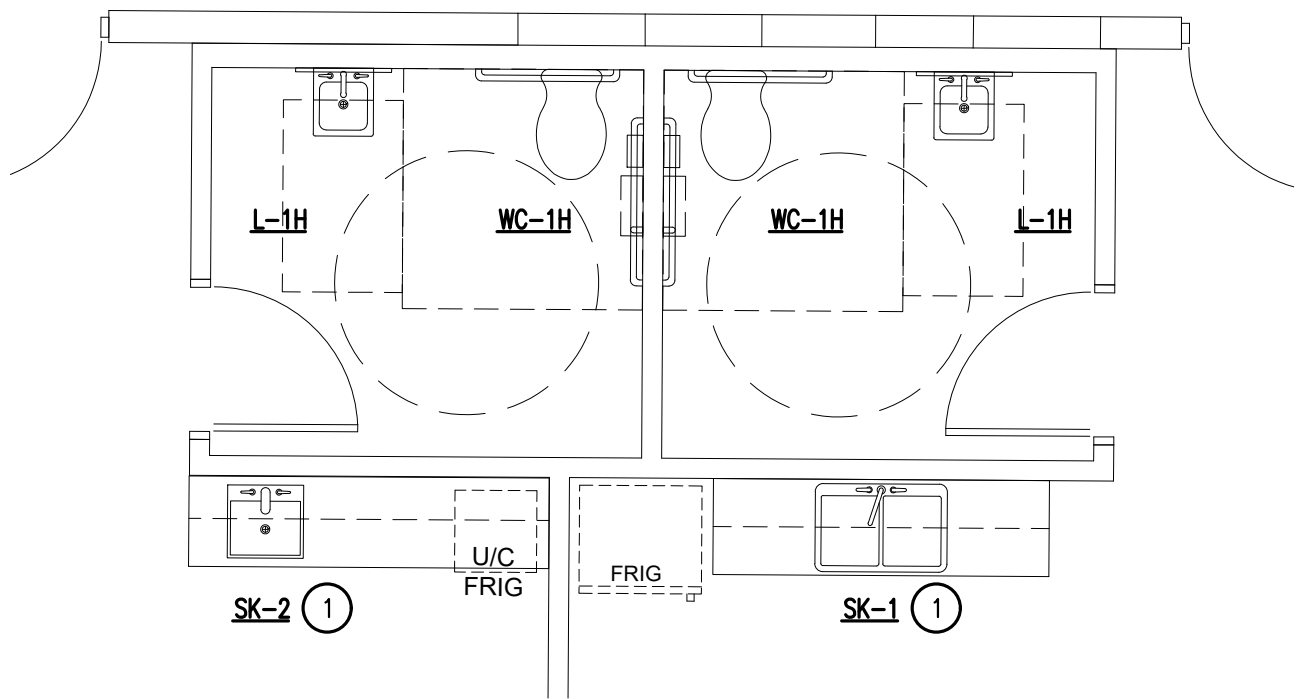
KEYNOTES: (X)  
1. INSTALL NEW FIXTURE AT THIS APPROXIMATE LOCATION. MODIFY EXISTING WATER, WASTE  
AND VENT PIPING TO ACCOMMODATE NEW FIXTURE SERVICE LOCATIONS.



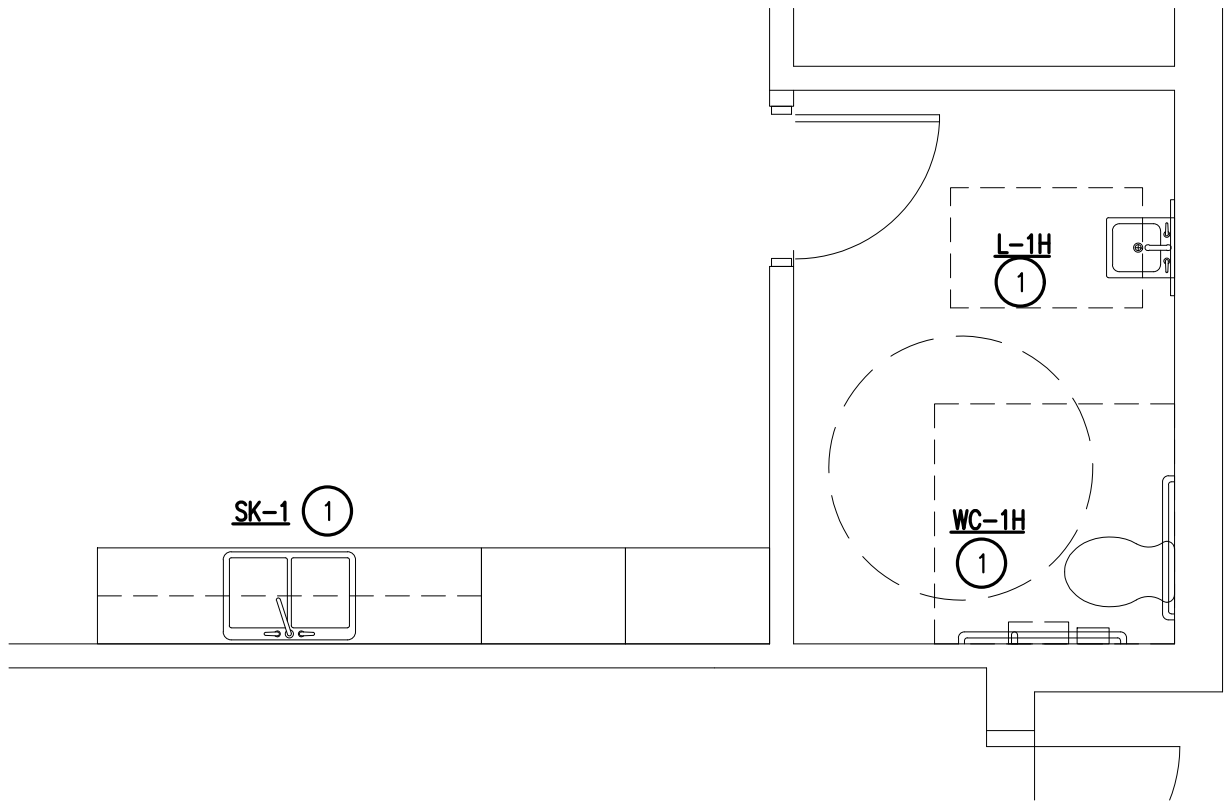
4 ENLARGED DOMESTIC WATER PLAN-NEW  
Scale: 1/4" = 1'-0"



3 ENLARGED DOMESTIC WATER PLAN-NEW  
Scale: 1/4" = 1'-0"



2 ENLARGED WASTE AND VENT PLAN-NEW  
Scale: 1/4" = 1'-0"



1 ENLARGED WASTE AND VENT PLAN-NEW  
Scale: 1/4" = 1'-0"

