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<h1 style="text-align: center;">PIPING LEGEND</h1>	
	HOT WATER SUPPLY (HWS)
	HOT WATER RETURN (HWR)
	HPS HEAT PUMP SUPPLY
	HPR HEAT PUMP RETURN
	CHS CHILLED WATER SUPPLY
	CHR CHILLED WATER RETURN
	D EQUIPMENT DRAIN LINE
	G GAS
	R REFRIGERANT CIRCUIT (LIQUID & SUCTION)
	RV RELIEF VALVE
	P PIPE ANCHOR
	PG PIPE GUIDE OR SLEEVE
	ECC EXPANSION COMPENSATOR c/w GUIDES
	B BOTTOM TAKE-OFF
	T TOP TAKE-OFF
	ELBUP ELBOW UP
	ELBDN ELBOW DOWN
	MVLE - SEE SPECIFICATIONS
	LUNION CONNECTION
	F FLANGED CONNECTION
	PLUG CAP
	FLEXIBLE CONNECTION
	WCO LOW WATER CUT OFF
	THERMOMETER
	PRESSURE GAUGE
	P-1 FLOW AND DESIGNATION
	A/V AIR VENT
	AAV AUTOMATIC AIR VENT
	RP PETES PLUG
	FS FLOW SWITCH
	TW THERMO WELL
	T/G THERMOSTAT w/GUARD
	FMD FLOW METERING DEVICE (FMD)
	CABINET HEATERS
	RADIANT PANELS
	REHEAT COILS
	U/C UNDERCUT DOOR
	AVF ABOVE FINISHED FLOOR
	CBV CIRCUL BALANCING VALVE
	GPM GALLONS PER MINUTE
	REQ'D REQUIRED
	TCV THERMOSTATIC CONTROL VALVE
	TYP. TYPICAL
	HX HEAT EXCHANGER
	RTH RADIANR FLOOR HEATER (IN-FLOOR HEATING)
	FW FOOT WASH
	TRD TRENCH FLOOR DRAIN
	BFP BACK FLOW PREVENTOR
	CFH CUBIC FEET HOUR

PLUMBING LEGEND	
	STORM ABOVE GRADE
	SANITARY ABOVE GRADE
	STORM BURIED
	SANITARY BURIED
	DOMESTIC COLD WATER
	DOMESTIC HOT WATER
	DOMESTIC RECIRCULATED WATER
	VENT LINE
	RELIEF VENT
	EQUIPMENT DRAIN LINE
	FIRE LINE
	CLEANOUT
	AREA DRAIN
	FLOOR DRAIN
	TUNNEL FLOOR DRAIN
	HUB DRAIN
	ROOF DRAIN
	HOSE STATION
	FIRE HOSE CABINET
	FIRE EXTINGUISHER
	FIRE EXTINGUISHER c/w CABINET
	FIRE BLANKET
	RAIN WATER LEADER
	WATER CLOSET
	WATER CLOSET (HANDICAPPED)
	URINAL
	SHOWER
	EMERGENCY SHOWER
	LAVATORY
	LAVATORY (HANDICAPPED)
	STAINLESS STEEL SINK
	JANITOR SINK
	DRINKING FOUNTAIN
	EMERGENCY EYE WASH
	HOT WATER TANK
	FIRE HYDRANT
	FIRE DEPT. SIAMASE CONNECTION
	THRUST BLOCK
	INVERT ELEVATION
	ORIENT ELEVATION
	WAND HOSE TRAP
	RUNNING TRAP
	APPROVED BACKFLOW PREVENTOR
	HOSE BIBB
	PUMP AND DESIGNATION
	FIRE PUMP
	SHOWER MIXING VALVE
	SLAB DRAIN
	PLANTER DRAIN
	SANITARY TO GREASE INTERCEPTOR

VENTILATION LEGEND	
	SOUND INSULATION
	FLEXIBLE CONNECTION
	DUCT OFFSET
	DUCT OFFSET (SINGLE LINE)
	TURNING VANES
	FIRE STOP FLAP
	BALANCING DAMPER
	FIRE DAMPER
	SPLITTER DAMPER
	BACKDRAFT DAMPER
	OPPOSED BLADE DAMPER
	MOTORIZED DAMPER
	SUPPLY DUCT SECTION
	RETURN DUCT SECTION
	SUPPLY DIFFUSER
	LINEAR DIFFUSER
	EXHAUST GRILLE
	DIFFUSER DESIGNATION AND CFM
	GRILLE DESIGNATION AND CFM
	FLEXIBLE ROUND DUCT
	CAPPED END DUCT
	DUCT REDUCER/ENLARGER
	TRANSITION <input type="checkbox"/> TO <input type="radio"/> ROUND
	THERMOSTAT
	THERMOSTAT w/GUARD
	THERMOSTAT c/w SUB BASE
	AD ACCESS DOOR
	AF _F ABOVE FINISHED FLOOR
	CFM CUBIC FEET PER MINUTE
	E _F EXHAUST FAN
	CH CABINET HEATER
	MUA MAKE-UP AIR UNIT
	CBV CIRCUIT BALANCING VALVE

CONTROL LEGEND	
	THERMOSTAT
	THERMOSTAT w/ GUARD
	THERMOSTAT c/w SUB BASE
	HUMIDISTAT
	OCCUPANCY SENSOR
	CO2 ROOM SENSOR
	TEMPERATURE SENSOR
	PRESSURE SWITCH OR SENSOR
	HUMIDITY SENSOR
	FLOW SWITCH
	ELECTRIC-PNEUMATIC RELAY
	PNEUMATIC-ELECTRIC RELAY
	SMOKE DETECTOR
	SOLENOID VALVE
	FIRESTAT
	FREEZESTAT
	PRESSURE DIFFERENTIAL SWITCH
	MOTORIZED DAMPER
	PRESSURE GAUGE
	TEMPERATURE GAUGE
	2-WAY CONTROL VALVE
	3-WAY CONTROL VALVE
	HEATING COIL
	COOLING COIL
DA	OUTSIDE AIR
RA	RETURN AIR
SA	SUPPLY AIR
EA	EXHAUST AIR
NO	NORMALLY OPEN
NC	NORMALLY CLOSED
	MOTOR
TCV	TEMPERATURE CONTROL VALVE

FIRE PROT. LEGEND	
● FE	FIRE EXTINGUISHER
■ FEC	FIRE EXTINGUISHER c/w CABINET

VALVE LEGEND	
	VALVE - SEE SPEC
	CHECK VALVE
	STRAINER
	PRESSURE REDUCING VALVE
	CONTROL VALVE
	2-WAY CONTROL VALVE
	3-WAY CONTROL VALVE
	RELIEF VALVE
	PLUG VALVE
	SOLENOID VALVE
	NORMALLY CLOSED VALVE
	PET COCK
	CIRCUIT BALANCE VALVE

LEGEND NOTES:

THESE ARE STANDARD LEGENDS. ALL SYMBOLS MAY NOT NECESSARILY BE USED ON THESE DRAWINGS.

GENERAL NOTES

1. REFER TO SITE AND OWNER INSTRUCTIONS FOR PHASING AND STAGING.
2. THE CONTRACTOR SHALL CO-ORDINATE WITH THE STRUCTURAL TO PROVIDE ACCESS TO EXISTING SERVICES TO BE REMOVED OR RELOCATED.
3. PENETRATIONS OF CONCRETE SHALL BE SAW-CUT OR CORE-BORED-MACHINED. ARMERS ARE NOT ALLOWED. SEAL ALL OUTCROCK AND SLEEVES TO PREVENT CRACKING OF FLOOR.
4. DO NOT SCALE DRAWINGS FOR INSTALLATION PURPOSES. OBTAIN ALL DIMENSIONS FROM ARCHITECTURAL PLANS, MANUFACTURER'S SHOP DRAWINGS, AND/OR FIELD MEASUREMENTS.
5. MECHANICAL DUCT 14-1/4 AND ELECTRICAL TRACES SHALL WORK IN CONJUNCTION WITH ONE ANOTHER SO AS TO AVOID INTERFERENCE BETWEEN PIPES.
6. MECHANICAL, ELECTRICAL, AND PLUMBING SHALL CO-ORDINATE WITH THE STRUCTURAL TO PROVIDE ACCESS TO EXISTING SERVICES TO BE REMOVED OR RELOCATED.
7. WORK SHALL BE CO-ORDINATED THROUGH THE GENERAL CONTRACTOR PRIOR TO INSTALLATION OF ANY EQUIPMENT, DUCTWORK AND CONTROLS. CO-ORDINATE WITH ARCHITECT FOR PLACEMENT OF MECHANICAL, ELECTRICAL, AND ELECTRICAL SPACE ALLOCATIONS.
8. PROPERLY SUPPORT HUNG MOUNTED EQUIPMENT AND ANY OTHER EQUIPMENT TO BE INSTALLED. SECURE SUPPORTS TO STRUCTURE. REFER TO ARCHITECTURAL DETAILS AND CO-ORDINATE WITH STRUCTURAL TRADE.
9. REFER TO ARCHITECTURAL FOR OWNER SUPPLIED EQUIPMENT. CONFIRM ALL EQUIPMENT, MATERIALS, AND METHODS WITH ARCHITECT PRIOR TO INSTALLATION.
10. REVIEW ARCHITECTURAL, ELECTRICAL, AND STRUCTURAL DRAWINGS AND PROVIDE, ON SITE INSPECTIONS TO DETERMINE FULL EXTENT OF PROJECT PRIOR TO START OF WORK.
11. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ALL MECHANICAL SERVICES TO THE OCCUPIED AREA THROUGHOUT THE PHASING OF THE WORK. PROVIDE PROTECTION VALVES, TEMPORARY DUCTWORK AND PIPING AS REQUIRED TO MAINTAIN THE SHUT DOWN OF SERVICES TO ONE TIME.
12. EXISTING MECHANICAL SERVICES SHOWN ON THESE DRAWINGS WERE TAKEN FROM THE CONTRACTOR'S CONTRACT DOCUMENTS. THE CONTRACTOR SHALL VERIFY EXISTING SIZE AND LOCATION OF ALL EXISTING SERVICES ON SITE AND PROVIDE THE REQUIRED REPAIRS TO THE EXISTING SERVICES.
13. ALL DRAWINGS ARE INTEGRATED WITH THE SPECIFICATIONS WHICH THEY ACCOMPANY. NEITHER IS TO BE USED ALONE. ANY ITEM OR SUBJECT OMITTED FROM THE CONTRACT DOCUMENTS SHALL BE CONSIDERED TO BE INCLUDED THEREIN, UNLESS THE DIFFERENCE IS OBVIOUS, THE MOST OURGENT CONDITION HOWEVER.
14. PENETRATIONS OF EITHER FUEL OR SMOKE BARRIER RESISTANT WALLS SHALL BE MADE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CONTRACT. ALL SUITABLE NON-COMBUSTIBLE MATERIALS EQUAL TO THE CONSTRUCTION TO BE PENETRATED.
15. AVOID ANY CONTACT BETWEEN ANY PIPING, DUCTING AND ELECTRICAL EQUIPMENT TO PREVENT SHORTS.
16. IF ANY AREAS ARE AFFECTED BY THE NEW SCOPE OF WORK, CONTRACTOR TO CARRY COSTS FOR THE REMOVAL AND INSTALLATION OF THE EXISTING CEILING AND RELOCATE TO ARCHITECTURAL NEW REFLECTED CEILING PANEL FOR SCOPE OF NEW CEILING.
17. INSTALLATION SHALL BE COMPLETE AND FULLY FUNCTIONAL. PROVIDE ALL LABOR, MATERIALS, AND EQUIPMENT SERVICE REQUIRED.
18. PROVIDE ACCESS FOR SERVING EQUIPMENT AS INDICATED, AS REQUIRED BY CODE AND AS RECOMMENDED BY THE MANUFACTURER.
19. PROVIDE ACCESS DOORS AS NECESSARY FOR ACCESS TO VALVES, DAMPERS, AND EQUIPMENT. PROVIDE ACCESS DOORS TO BE REMOVED AND MAINTAINED.
20. INSTALL EQUIPMENT, DUCTS, AND PIPES PARALLEL TO OR PERPENDICULAR TO BUILDING LINES. PROVIDE SPACE, UNIONS AND FLANGES FOR DISASSEMBLY, REPAIR, OR REMOVAL OF EQUIPMENT.
21. THE CONTRACTOR SHALL, WITH APPROVAL OF THE OWNER AND AT NO ADDITIONAL CONTRACT COST, REMOVE, REARRANGE AND/OR RELOCATE ANY OBSTRUCTIONS WITHIN THE CONTRACT AREA TO ACCOMMODATE THE WORK.
22. ALL SHUTDOWN OF ANY PORTION OF EXISTING BUILDING SYSTEMS SHALL BE PERFORMED WITH THE OWNER'S CONSENT. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER FOR THE SHUTDOWN OF ANY PORTION OF THE BUILDING. INCLUDE COST OF PREMIUM TIME IN THE CONTRACT PRICE FOR WORK PERFORMED DURING NIGHT, WEEK-ENDS OR OTHER TIME OUTSIDE NORMAL WORKING HOURS AS NECESSARY TO MAINTAIN MECHANICAL SERVICES IN OPERATION.
23. IN THE EVENT A CONFLICT OCCURS BETWEEN THE INSTALLATION DETAILS, DIAGRAMS, ETC. THE CONTRACTOR SHALL FOLLOW THE MOST DETAILED AND/OR THE MOST DETAILED INSTRUCTIONS. THE MANUFACTURER'S INSTALLATION DETAILS GOVERN AND SHALL BE THE BASIS FOR THE CONTRACTOR'S WORK.
24. ALL INSTALLATIONS SHALL BE IN ACCORDANCE WITH CODES, APPLICABLE STANDARDS, BUILDING SETS, AND REQUIREMENTS OF ALL INSPECTION AGENCIES FOR THE PROJECT.
25. DUE TO INADEQUATE RECORDS OF EXISTING SERVICES NOT ALL SERVICES MAY BE SHOWN, OR IF SHOWN MAY NOT BE ACCURATE. IF THE CONTRACTORS ARE UNABLE TO TELL CONTRACTOR OF THE LOCATION OF ANY SERVICE, THE CONTRACTOR IS TO VERIFY CONNECTION POINTS TO EXISTING SERVICES ON SITE.
26. CHECK AND VERIFY LOCATION OF ALL PIPES, DUCTS AND EQUIPMENT WITH ALL OTHER TRADES TO PREVENT INTERFERENCE, REMOVAL, OR RELOCATION OF ANY EXISTING SERVICE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE RESPONSIBILITY OF THE MECHANICAL TRADE CONCERNED UNLESS OTHERWISE APPROVED IN WRITING BY THE ARCHITECT.
27. PROVIDE ACCESS DOOR FOR ALL VALVES LOCATED ABOVE DRY WALL CEILING.
28. IN ALL INSTANCES THE DEEP FOR ACCESS DOORS IN OMB CEILING SHALL BE ACCEPTED IF POSSIBLE. WHERE INSTALLATION OF COMPONENTS WHICH REQUIRE ACCESS TO THE ABOVE CEILING ARE REQUIRED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR CARRYING OUT THE ACCESS DOORS TO THE CONTRACTOR'S APPROVAL PRIOR TO INSTALLATION.
29. BEFORE CUTTING ANY HOLES THROUGH THE EXISTING SLAB REFER TO STRUCTURAL DRAWINGS FOR GENERAL REQUIREMENTS.
30. PROVIDE SIGN IDENTIFYING LOCATION OF ALL VALVES INSTALLED IN CEILING SPACE.

PLUMBING NOTES

1. CONTRACTOR IS TO CLEAR EXISTING DUCTWORK WHEN INSTALLING NEW VENTS.
CLEARANCES TO BE VERIFIED ON SITE.
2. PROVIDE A CLEANOUT AT THE BOTTOM OF EVERY SOIL AND WASTE STACK THAT CONNECTS TO A HORIZONTAL DRAINAGE PIPE.
3. PROVIDE A CLEANOUT FROM EACH PLUMBING FIXTURE WHERE REQUIRED BY ANOTHER BUILDING CODE.
4. ALL PLUMBING FIXTURES INCLUDING FLOOR DRAINS (HUB, FUNNEL, FLOOR DRAINS) TO BE TRAPPED AND VENTED AS REQUIRED BY ANOTHER BUILDING CODE, PART 7.
5. FOR MOUNTING HEIGHT OF ALL PLUMBING FIXTURES REFER TO ARCHITECTURAL DRAWINGS.
6. PROVIDE ACCESS DOOR FOR ALL CLEANOUTS LOCATED ABOVE DRY FLOOR CEILING.
7. CONTRACTOR IS TO REMOVE ALL OBSOLETE PIPING WHEREVER POSSIBLE.
8. CONTRACTOR IS TO ENSURE THAT ALL EXISTING PIPING SERVING EXISTING AREAS IS MAINTAINED AND NOT REMOVED UNLESS RECOMMENDED TO NEW SERVICES. ONLY THEN OBSOLETE PIPING IS TO BE REMOVED AS SHOWN.
9. RECONNECT VENTS FROM EXISTING EQUIPMENT AND PLUMBING FIXTURES WHICH ARE NOT SERVING NEW VENT REQUIRED.
10. WHENEVER COLD AND HOT WATER DISTRIBUTION TO LAUNDRIES IS TO RUN UNDER COUNTER, PIPING DISTRIBUTION IS TO BE INSTALLED AS TIGHT TO UNDER COUNTER AS POSSIBLE.
11. ALL WATER, SANITARY, SEWER AND VENT COPPER PIPING WITH SOLDER JOINTS SHALL BE LEAD FREE. DO NOT INSTALL WATER LINES IN UNDER WALL WHERE THEY ARE FREEZE PRONE, UNLESS BOTH THE WALL AND THE PIPES ARE PROPERLY INSULATED.
12. INSTALL SHUT-OFF VALVES AT EACH PLUMBING FIXTURE.
13. PROVIDE PIPE TRAPPING TO EXISTING PIPE DISTRIBUTION WHERE DEMOLITION AND NEW CONNECTIONS ARE MADE TO EXISTING SYSTEM.

HVAC NOTES

1. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR CO-ORDINATION OF DIFFUSER LOCATIONS AND OTHER DISTRIBUTION DEVICES.
2. CONTRACTORS SHALL COORDINATE ALL CEILING FINISHES WITH OWNER AND MATCH EXISTING. CONTRACTOR SHALL REVIEW MECHANICAL DRAWINGS, ARCHITECTURAL REFLECTED CEILING PLAN AND OTHER DRAWINGS FOR COORDINATION OF ALL DEVICES. AS SOON AS CONTRACT DOCUMENTS ARE ISSUED, ADVISE CONSULTANT OF ANY DISCREPANCIES.
3. CONTRACTORS SHALL VERIFY ALL CEILING FINISHES WITH ARCHITECTURAL DRAWINGS. CONTRACTOR AND DIFFUSER/SUPPLY SUPPLIER ARE RESPONSIBLE FOR THE PROPER SELECTION OF MATERIALS, FINISHES, MOUNTING HARDWARE, AND ACCESSORIES TO SUIT ARCHITECTURAL CEILING FINISH. MECHANICAL CONTRACTOR SHALL VERIFY ALL DIFFUSERS, SUPPLY GRILLES, RETURN GRILLES, EXHAUST GRILLES, DIFFUSERS AND GRILLES IN DRAWING LOCATIONS TO DRAWING TRADE AND ENSURE ALL DEVICES ARE PROPERLY LOCATED. DIFFUSERS AND GRILLES MUST NOT BE SUPPORTED SOLELY BY HANGER WIRE.
4. CONTRACTOR TO CARRY OUT ADDITIONAL DUCTS AND DUCT FITTING REQUIRED TO MEET INTERFERENCES IN EXISTING SYSTEMS.
5. ALL NEW DUCTWORK TO BE CLEANED.
6. ALL DUCTWORK FITTINGS SHALL BE RIGID ALUMINUM IRON.
7. CONTRACTOR TO TAKE ALL MEASUREMENTS NECESSARY TO DETERMINE CURRENT SYSTEM PERFORMANCE IN AREAS THAT WILL CONTINUE TO BE SERVED BY EXISTING EQUIPMENT. CONTRACTOR SHALL RECORD MEASUREMENTS MADE PRIOR TO START OF DEMOLITION.
8. ON COMPLETION OF DUCT ALTERATIONS, AIR BALANCE TECHNICIAN SHALL RE-BALANCE EXISTING SYSTEMS TO MEET DESIGN REQUIREMENTS.
9. WHERE MODIFICATIONS HAVE BEEN DONE TO THE HEATING WATER CIRCUITS CONTRACTOR MUST REBALANCE THE AFFECTED PARTS.
10. CONTRACTOR TO PROVIDE TO CLIENT ALL RECORDS INCLUDING DEMOLITION AND NEW CONNECTIONS ARE MADE TO EXISTING SYSTEM.
11. INSTANT/RENTAL T-SHATS TO 1,200mm x 515" UNLESS OTHER SIZE INDICATED

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Halton District School Board
2050 Guelph Line
Burlington, Ontario

T. A. BLAKELOCK H.S.
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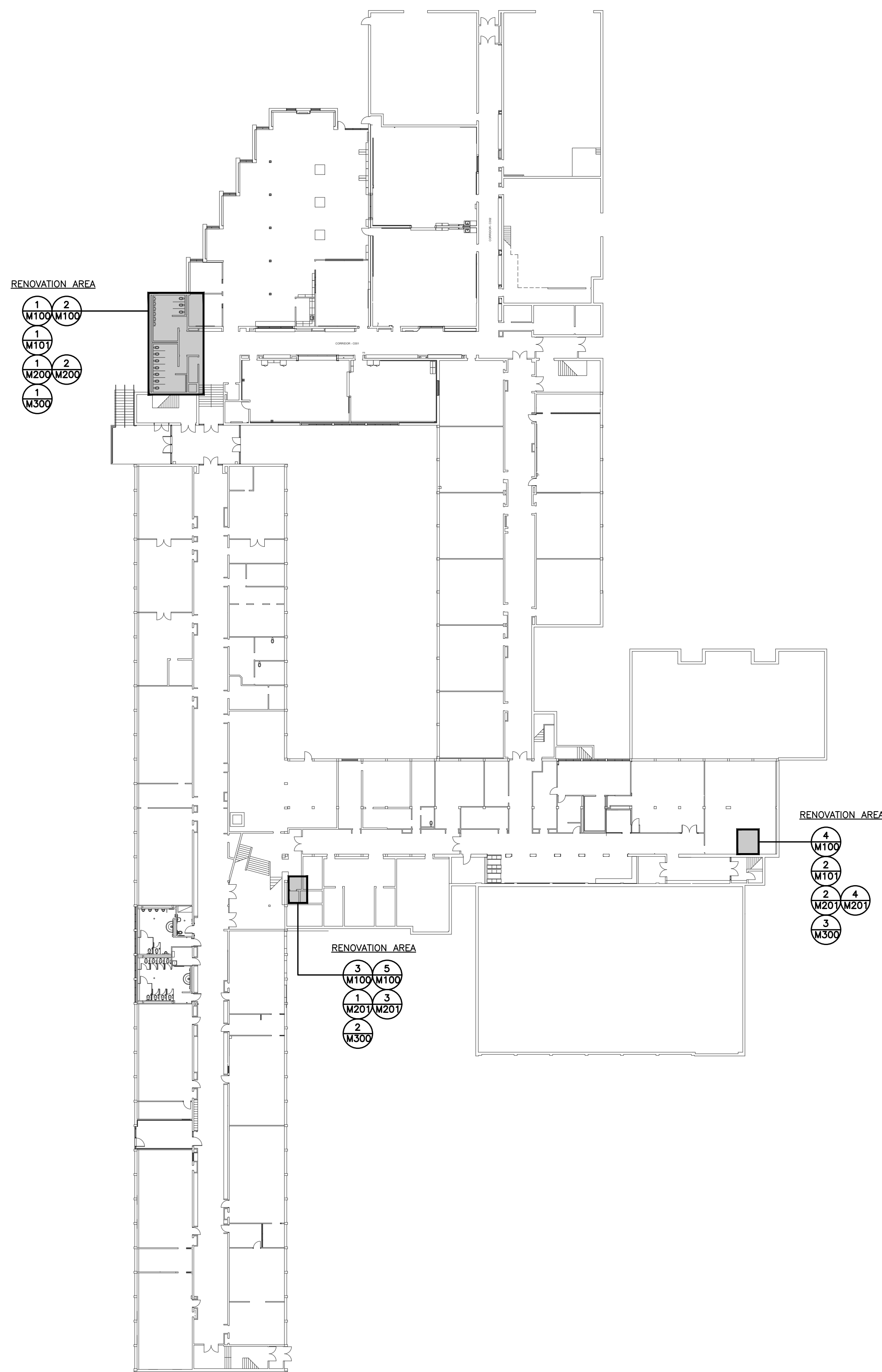
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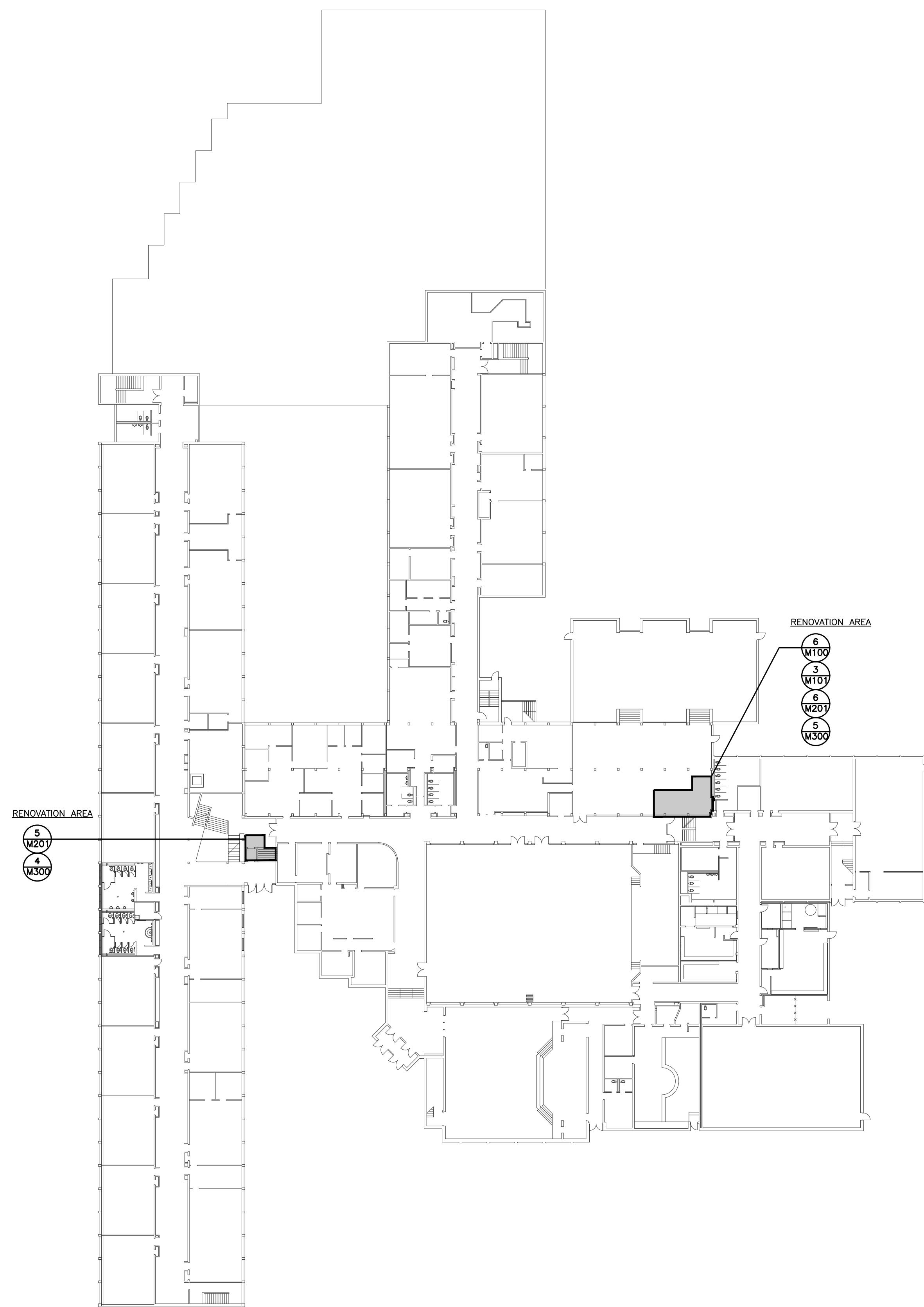
General Contractor shall check and verify all dimensions and report all errors and omissions to the Architect. Do not scale the drawings. Drawings shall not be used for construction purposes until issued by the Architect for construction.

Drawing Title:
**MECHANICAL LEGENDS
AND DRAWING LIST**

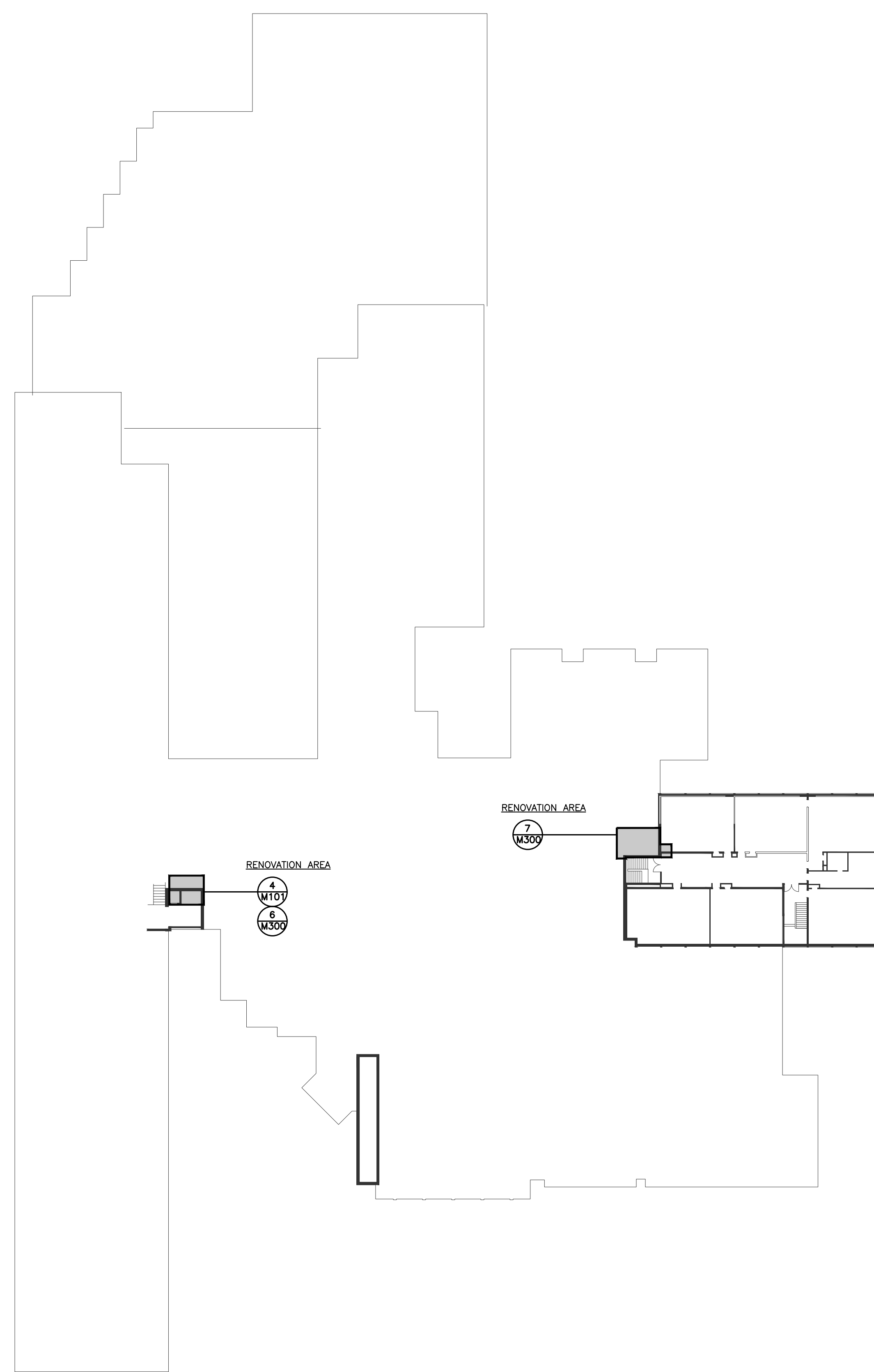
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Job No. ALL-22020201	Drawing No. M000



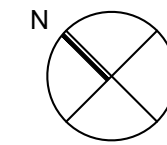
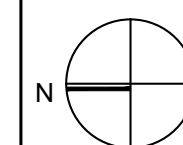
1 LEVEL 0 KEY PLAN
M001 1:400



2 LEVEL 1 KEY PLAN
M001 1:400



3 LEVEL 2 KEY PLAN
M001 1:400

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Drawing Title:
KEY PLANS

Scale: AS NOTED	Date: 2025-03-03
Drawn by: CC	Checked by: WD
Job No. ALL-22020201	Drawing No. M001

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- 1 DEMOLISH EXISTING DUCTWORK TO EXTENT INDICATED. COMPLETE WITH ALL DUCTWORK ACCESSORIES AND SPECIALTY.
- 2 CAP EXISTING DUCTWORK AND SEAL AIR TIGHT.
- 3 DEMOLISH AND DISPOSE OF EXISTING EXHAUST FAN.
- 4 DEMOLISH AND DISPOSE OF EXISTING RADIANT HEATER. COMPLETE WITH ALL ACCESSORIES INCLUDING CONTROL. WIRING AND PIPING TO BE REMOVED. PIPING AND PIPING TO BE PROVIDED A CAPPED CONNECTION.
- 5 EXISTING HEATING EQUIPMENT TO REMAIN.
- 6 EXISTING THERMOSTAT TO BE RELOCATED. REFER TO NEW WORK FOR NEW LOCATION. CLOSE OFF EXISTING EXHAUST FAN LINE AND EXHAUST FAN. EXHAUST FAN LINE EXTEND THIS COMPRESSED AIR LINE OVER TO NEW THERMOSTAT LOCATION.
- 7 EXISTING ROOF EXHAUST FAN TO BE SHUT DOWN. DISCONNECT EXHAUST. MAKE SAFE POWER. COORDINATE WORK WITH ELECTRICAL TRADE. RE-START EXHAUST FAN AFTER WORK COMPLETION.
- 8 EXISTING HEATING PIPES TO BE DEMOLISHED AND REPLACED WITH NEW. DISCONNECTION SHALL BE DONE IN ACCORDANCE WITH ALL APPLICABLE CODES AND RULES WHERE REQUIRED TO FACILITATE NEW WORK.

A) THE EXISTING SERVICES SHOWN ON THIS DRAWING HAVE BEEN TAKEN FROM THE ORIGINAL CONSTRUCTION DRAWINGS, THIS INFORMATION MUST NOT BE ASSUMED TO BE COMPLETE OR UP-TO-DATE, THE MECHANICAL CONTRACTOR SHALL CARRY OUT A FULL SURVEY OF ALL EXISTING SERVICES AND STRUCTURE TO CONFIRM THE SIZE AND LOCATION OF THESE SERVICES, BEFORE THE COMMENCEMENT OF ANY WORKS

B) FOR DRAWINGS LEGENDS SEE DRAWING MOOD



- 1 DEMOLISH AND DISPOSE OF EXISTING AIR REGISTER
- 2 DEMOLISH AND CUTBACK DUCTWORK TO EXTENT INDICATED. CAP AT LOCATION SHOWN

A) THE EXISTING SERVICES SHOWN ON THIS DRAWING HAVE BEEN TAKEN FROM THE ORIGINAL CONSTRUCTION DRAWINGS, THIS INFORMATION MUST NOT BE ASSUMED TO BE COMPLETE OR UP-TO-DATE. THE MECHANICAL CONTRACTOR SHALL CARRY OUT A FULL SURVEY OF ALL EXISTING SERVICES AND STRUCTURE TO CONFIRM THE SIZE AND LOCATION OF THESE SERVICES, BEFORE THE COMMENCEMENT OF ANY WORKS

B) FOR DRAWINGS LEGENDS SEE DRAWING MO00.

- 1 DEMOLISH AND DISPOSE OF EXISTING AIR GRILLES AND DUCTWORK ACCESSORIES.
- 2 DEMOLISH AND CUTBACK DUCTWORK TO EXTENT INDICATED. CAP AT LOCATION SHOWN

A) THE EXISTING SERVICES SHOWN ON THIS DRAWING HAVE BEEN TAKEN FROM THE ORIGINAL CONSTRUCTION DRAWINGS, THIS INFORMATION MUST NOT BE ASSUMED TO BE COMPLETE OR UP-TO-DATE. THE MECHANICAL CONTRACTOR SHALL CARRY OUT A FULL SURVEY OF ALL EXISTING SERVICES AND STRUCTURE TO CONFIRM THE SIZE AND LOCATION OF THESE SERVICES, BEFORE THE COMMENCEMENT OF ANY WORKS

B) FOR DRAWINGS LEGENDS SEE DRAWING MO00.

- ① REMOVE EXISTING LOUVRE AND PREPARE TO REINSTALLED AND REUSED.
- ② DEMOUSH AND CUTBACK DUCTWORK TO EXTENT INDICATED.
- ③ EXISTING DUCTWORK TO REMAIN AND BE PREPARED FOR REUSE.

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B) FOR DRAWINGS LEGENDS SEE DRAWING M000.

Drawing Title

LIBRARY WASHROOMS
AND ELEVATORS
DEMOLITION HVAC PLA

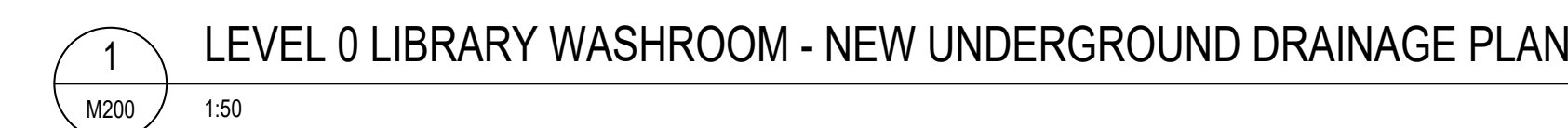
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Job No. _____ Drawing No. _____

M101

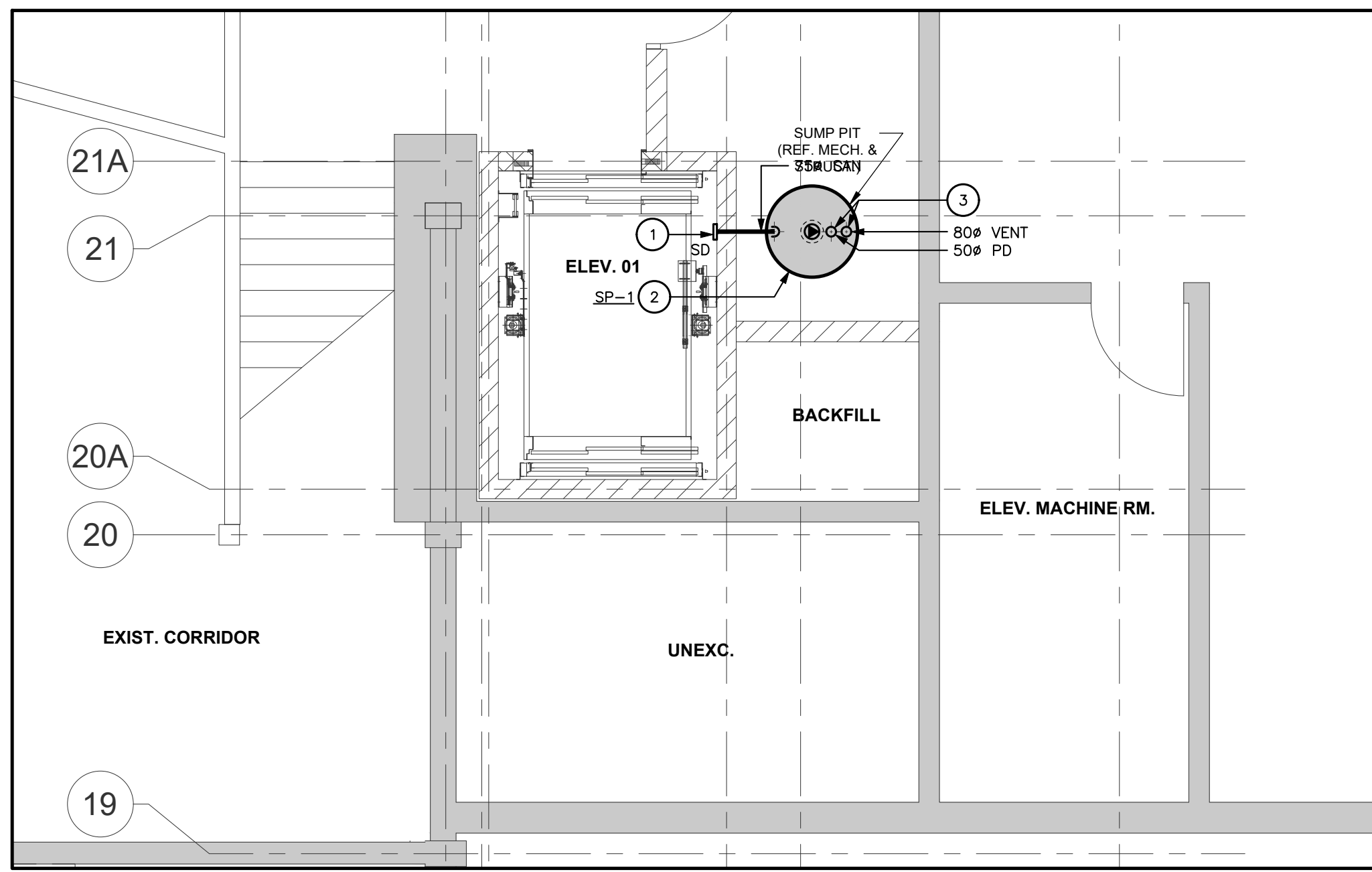


- ## GENERAL NOTES

- 2 LEVEL 0 LIBRARY WASHROOM - NEW PLUMBING PLAN
M200 1:50

- ## GENERAL NOTES

- A) ALL PIPING, VALVES AND EQUIPMENT TO BE CONCEALED UNLESS OTHERWISE NOTED.
- B) CO-ORDINATE ALL FLOOR DRAINS WITH ARCHITECTURAL DRAWINGS.
- C) ALL RUNNING TRAPS TO BE COMPLETE WITH TRAP SEAL PRIMER CONNECTION.
- D) CO-ORDINATE PIPE RUNS WITH SHEETMETAL, HEATING, SPRINKLER AND ELECTRICAL DIVISIONS.
- E) SUPPLY AND INSTALL PIPE SLEEVES FOR PIPES PASSING THROUGH FOUNDATION WALLS OR FLOORS.
- F) PROVIDE INDIVIDUAL ISOLATION VALVES FOR EACH PIPE (I.E. DOW, DWV) SERVING EACH PLUMBING FIXTURE.
- G) REFER TO ARCHITECTURAL DRAWINGS FOR PLUMBING FIXTURE MOUNTING HEIGHTS AND INSTALLATION INSTRUCTIONS.
- H) FOR DRAWINGS LEGENDS SEE DRAWING M000.



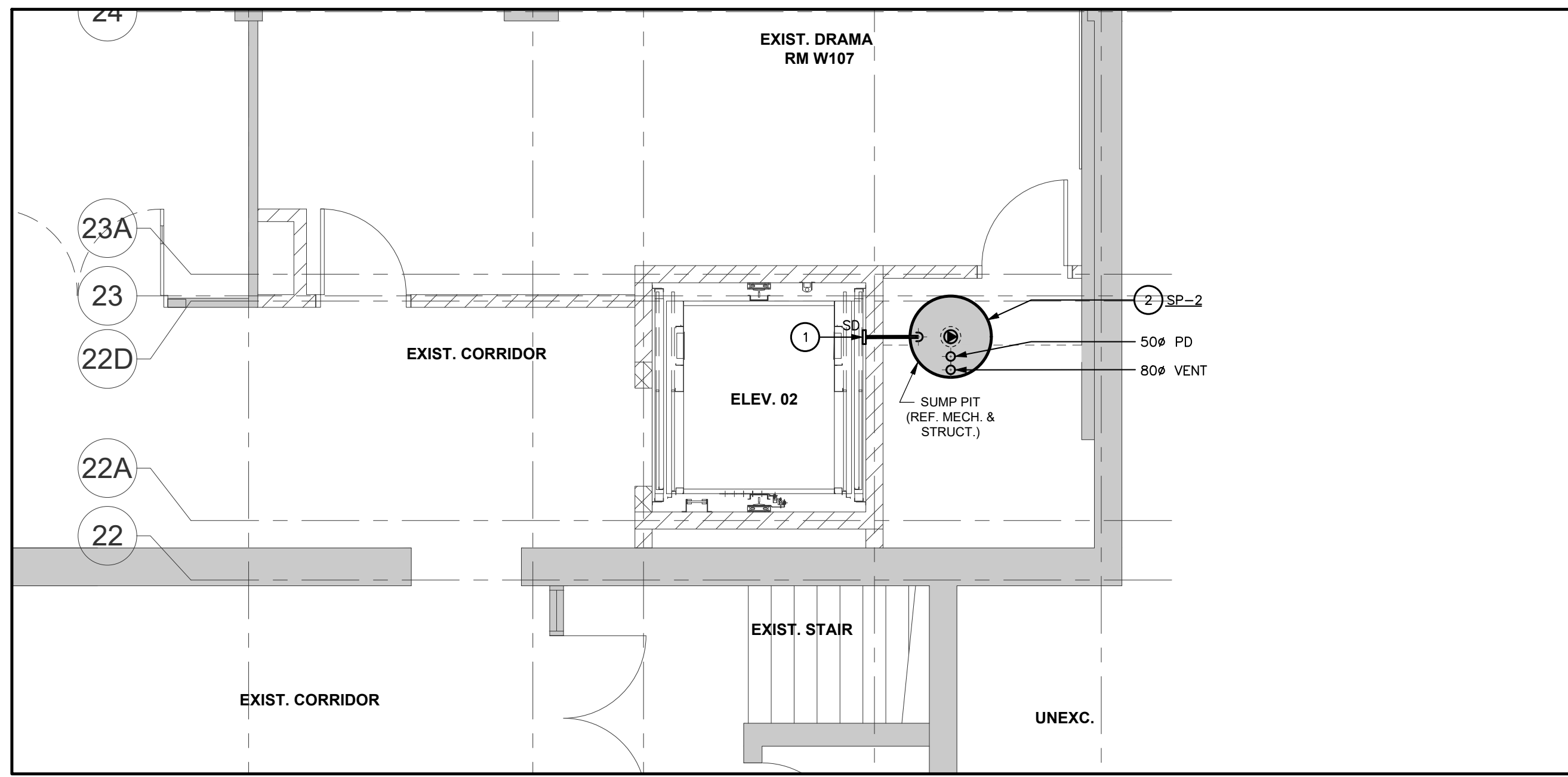
1 PARTIAL LEVEL 0 ELEVATOR 01 - NEW UNDERGROUND DRAINAGE PLAN
M201 1:50

DRAWING NOTES

- NEW PIT DRAIN TO CONNECT TO NEW SUMP PUMP "SP-1". SUPPLY AND INSTALL NEW PIT DRAIN. COMPLETE WITH BACKWATER VALVE AND GRATE.
- PROVIDE NEW ELEVATOR SUMP PUMP AND PIT AS PER MANUFACTURERS INSTRUCTIONS. SUMP PIT IS TO BE FIBER GLASS, 36" X 36" AND 84" DEEP. REFER TO MECHANICAL DETAILS. COORDINATE EXACT LOCATION WITH STRUCTURAL ENGINEER.
- NEW SANITARY PUMPED DISCHARGE AND SUMP PIT VENTING TO RISE UP THROUGH TO FLOOR ABOVE.

GENERAL NOTES

- ALL PIPING, VALVES AND EQUIPMENT TO BE CONCEALED UNLESS OTHERWISE NOTED.
- CO-ORDINATE ALL FLOOR DRAINS WITH ARCHITECTURAL DRAWINGS.
- ALL RUNNING TRAPS TO BE COMPLETE WITH TRAP SEAL PRIMER CONNECTION.
- CO-ORDINATE PIPE RUNS WITH SHEETMETAL, HEATING, SPRINKLER AND ELECTRICAL DIVISIONS.
- SUPPLY AND INSTALL PIPE SLEEVES FOR PIPES PASSING THROUGH FOUNDATION WALLS OR FLOORS.
- ALL CATCHBASINS/AREA DRAINS AND FLOOR DRAINS TO BE INDIVIDUALLY TRAPPED, PRIMED AND VENTED.
- FOR DRAWINGS LEGENDS SEE DRAWING M000.



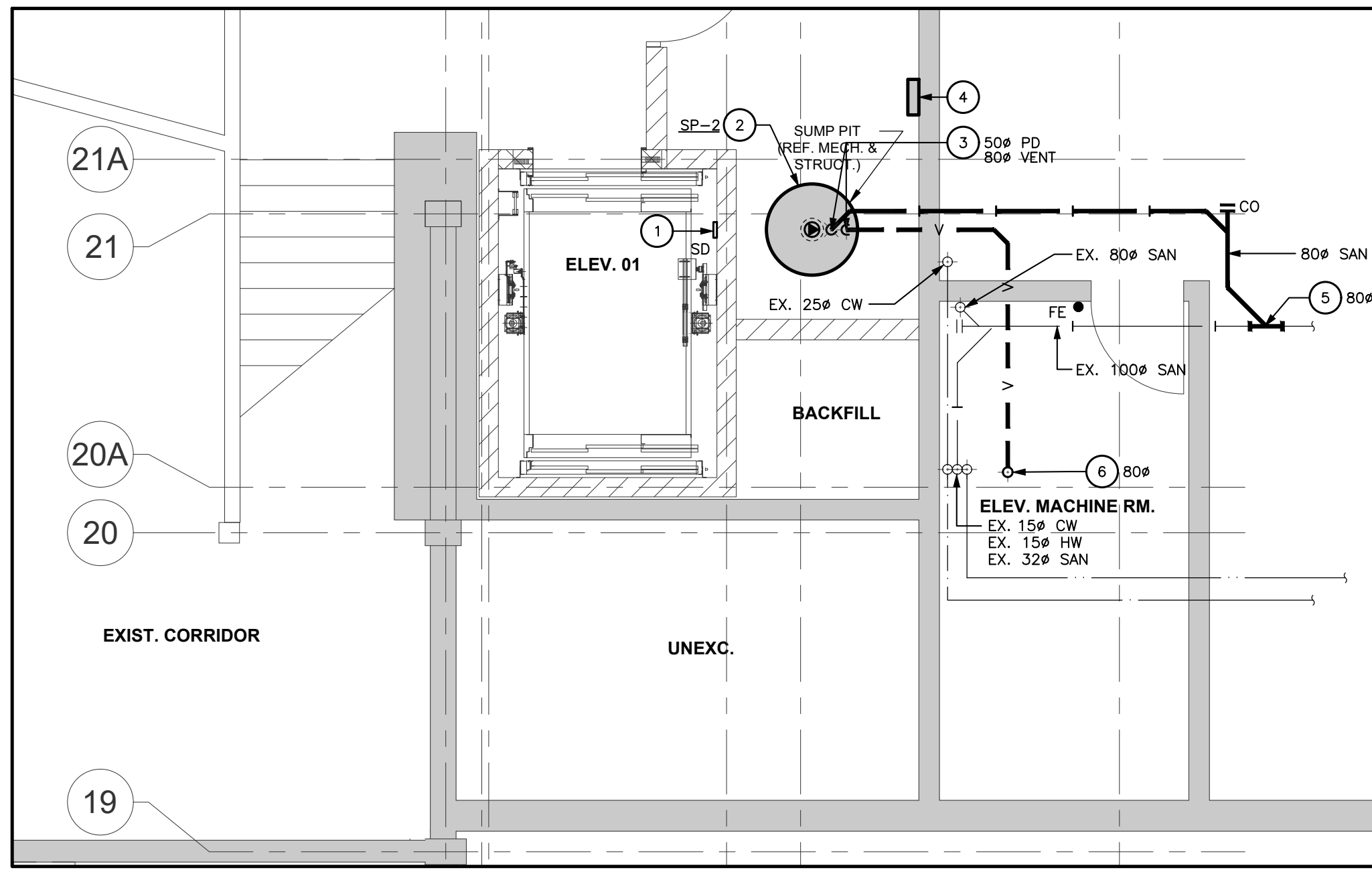
2 PARTIAL LEVEL 0 ELEVATOR 02 - NEW UNDERGROUND DRAINAGE PLAN
M201 1:50

DRAWING NOTES

- NEW PIT DRAIN TO CONNECT TO NEW SUMP PUMP "SP-2". SUPPLY AND INSTALL NEW PIT DRAIN. COMPLETE WITH BACKWATER VALVE AND GRATE.
- PROVIDE NEW ELEVATOR SUMP PUMP AND PIT AS PER MANUFACTURERS INSTRUCTIONS. REFER TO MECHANICAL DETAILS.

GENERAL NOTES

- ALL PIPING, VALVES AND EQUIPMENT TO BE CONCEALED UNLESS OTHERWISE NOTED.
- CO-ORDINATE ALL FLOOR DRAINS WITH ARCHITECTURAL DRAWINGS.
- ALL RUNNING TRAPS TO BE COMPLETE WITH TRAP SEAL PRIMER CONNECTION.
- CO-ORDINATE PIPE RUNS WITH SHEETMETAL, HEATING, SPRINKLER AND ELECTRICAL DIVISIONS.
- SUPPLY AND INSTALL PIPE SLEEVES FOR PIPES PASSING THROUGH FOUNDATION WALLS OR FLOORS.
- ALL CATCHBASINS/AREA DRAINS AND FLOOR DRAINS TO BE INDIVIDUALLY TRAPPED, PRIMED AND VENTED.
- FOR DRAWINGS LEGENDS SEE DRAWING M000.



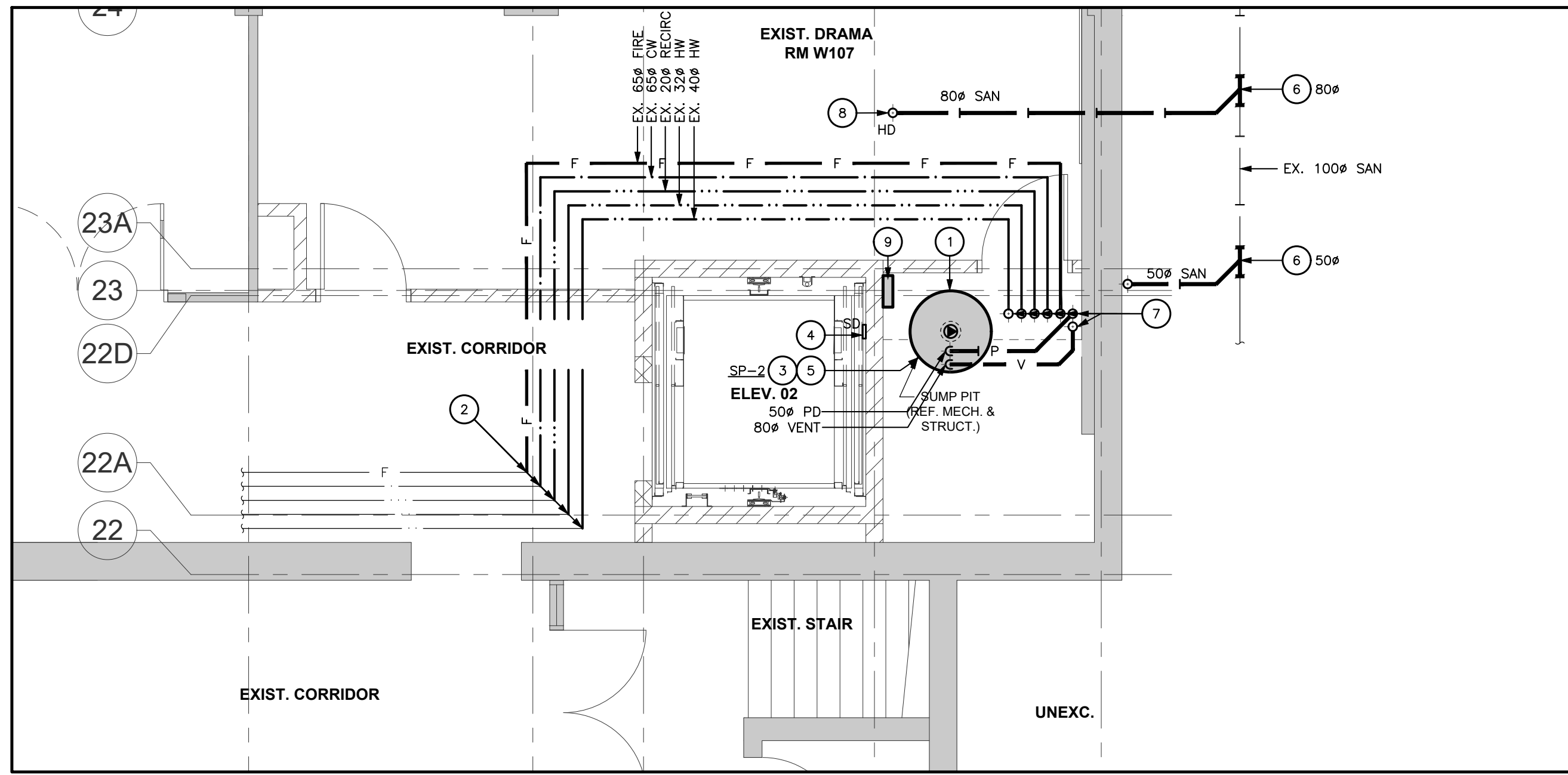
3 PARTIAL LEVEL 0 ELEVATOR 01 - NEW PLUMBING PLAN
M201 1:50

DRAWING NOTES

- SUPPLY AND INSTALL NEW PIT DRAIN COMPLETE WITH BACKWATER VALVE AND GRATE. DRAIN TO BE WATTS WD-604 OR EQUIVALENT.
- PROVIDE NEW ELEVATOR SUMP PUMP AND PIT AS PER MANUFACTURERS INSTRUCTIONS. SUMP PIT IS TO BE FIBER GLASS, 36" X 36" AND 84" DEEP. REFER TO MECHANICAL DETAILS. COORDINATE EXACT LOCATION WITH STRUCTURAL ENGINEER.
- RISE PUMPED DISCHARGE FROM SUMP PUMP "SP-1" AND VENTING UP FROM PIT BELOW.
- INSTALL NEW SUMP PUMP CONTROL PANEL.
- CONNECT NEW SANITARY TO EXISTING SYSTEM.
- RISE PIPE UP TO LEVEL ABOVE WITHIN NEW FURRED OUT WALL.

GENERAL NOTES

- ALL PIPING, VALVES AND EQUIPMENT TO BE CONCEALED UNLESS OTHERWISE NOTED.
- CO-ORDINATE ALL FLOOR DRAINS WITH ARCHITECTURAL DRAWINGS.
- ALL RUNNING TRAPS TO BE COMPLETE WITH TRAP SEAL PRIMER CONNECTION.
- CO-ORDINATE PIPE RUNS WITH SHEETMETAL, HEATING, SPRINKLER AND ELECTRICAL DIVISIONS.
- SUPPLY AND INSTALL PIPE SLEEVES FOR PIPES PASSING THROUGH FOUNDATION WALLS OR FLOORS.
- ALL CATCHBASINS/AREA DRAINS AND FLOOR DRAINS TO BE INDIVIDUALLY TRAPPED, PRIMED AND VENTED.
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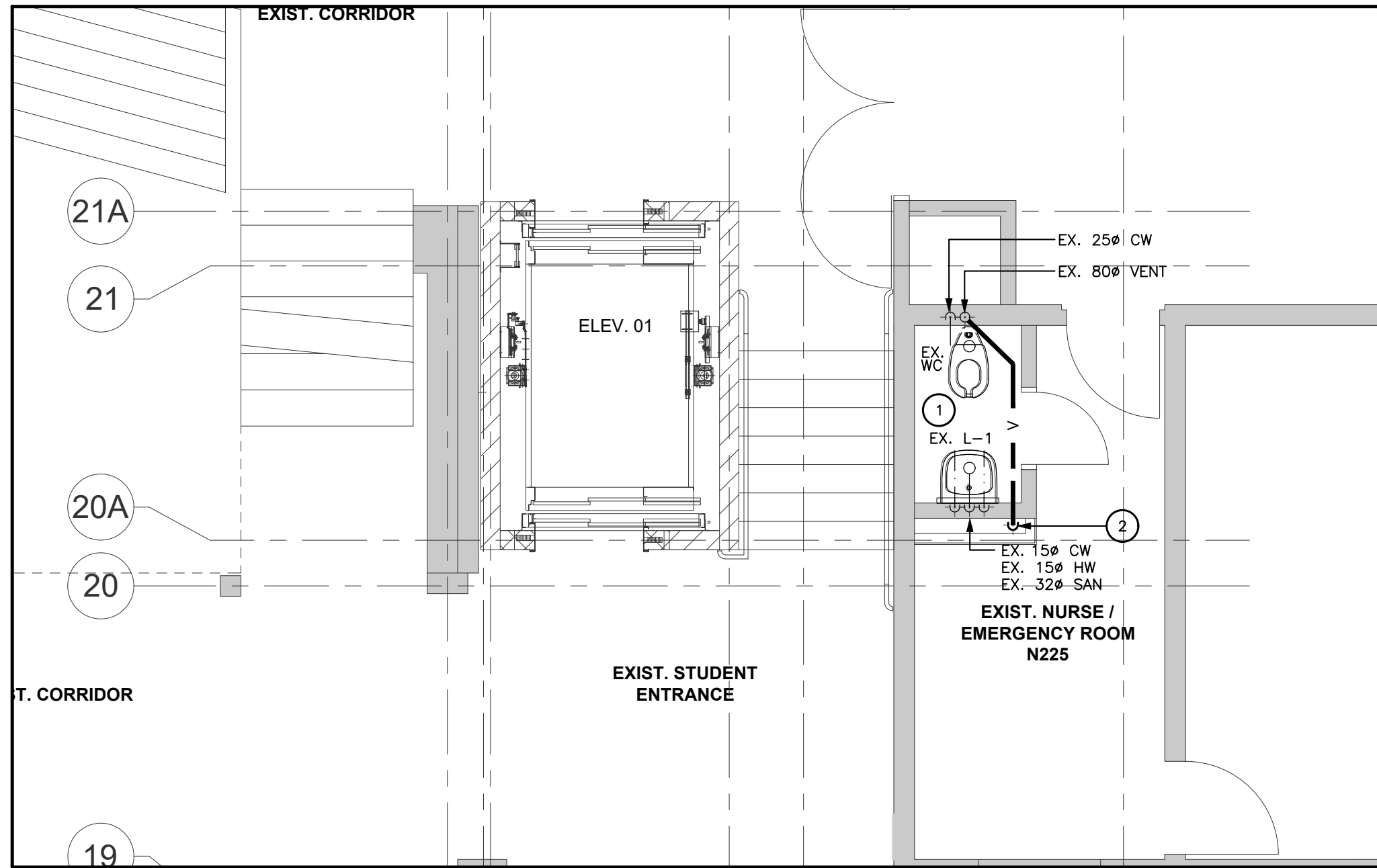
4 PARTIAL LEVEL 0 ELEVATOR 02 - NEW PLUMBING AND FIRE PROTECTION PLAN
M201 1:50

DRAWING NOTES

- RISE PUMPED DISCHARGE UP FROM SUMP PUMP "SP-2" IN PIT BELOW.
- CONNECT TO EXISTING ABOVE GROUND PIPING SYSTEM.
- PROVIDE NEW ELEVATOR SUMP PUMP AND PIT AS PER MANUFACTURERS INSTRUCTIONS. REFER TO MECHANICAL DETAILS.
- SUPPLY AND INSTALL NEW PIT DRAIN COMPLETE WITH BACKWATER VALVE AND GRATE. DRAIN TO BE WATTS WD-604 OR EQUIVALENT.
- RISE SUMP STEEL PIPE VENT AND CONNECT TO NEAREST BUILDING PLUMBING VENT.
- CONNECT NEW SANITARY TO EXISTING SYSTEM. WITHIN UNDEGRADED AREA.
- RISE PIPES UP THROUGH PLUMBING CHASE TO LEVEL ABOVE.
- CONNECT TO NEW HUB DRAINING SERVING FANCOIL UNIT, FC-1, ABOVE.
- INSTALL NEW SUMP PUMP CONTROL PANEL.

GENERAL NOTES

- ALL PIPING, VALVES AND EQUIPMENT TO BE CONCEALED UNLESS OTHERWISE NOTED.
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- ALL RUNNING TRAPS TO BE COMPLETE WITH TRAP SEAL PRIMER CONNECTION.
- CO-ORDINATE PIPE RUNS WITH SHEETMETAL, HEATING, SPRINKLER AND ELECTRICAL DIVISIONS.
- SUPPLY AND INSTALL PIPE SLEEVES FOR PIPES PASSING THROUGH FOUNDATION WALLS OR FLOORS.
- ALL CATCHBASINS/AREA DRAINS AND FLOOR DRAINS TO BE INDIVIDUALLY TRAPPED, PRIMED AND VENTED.
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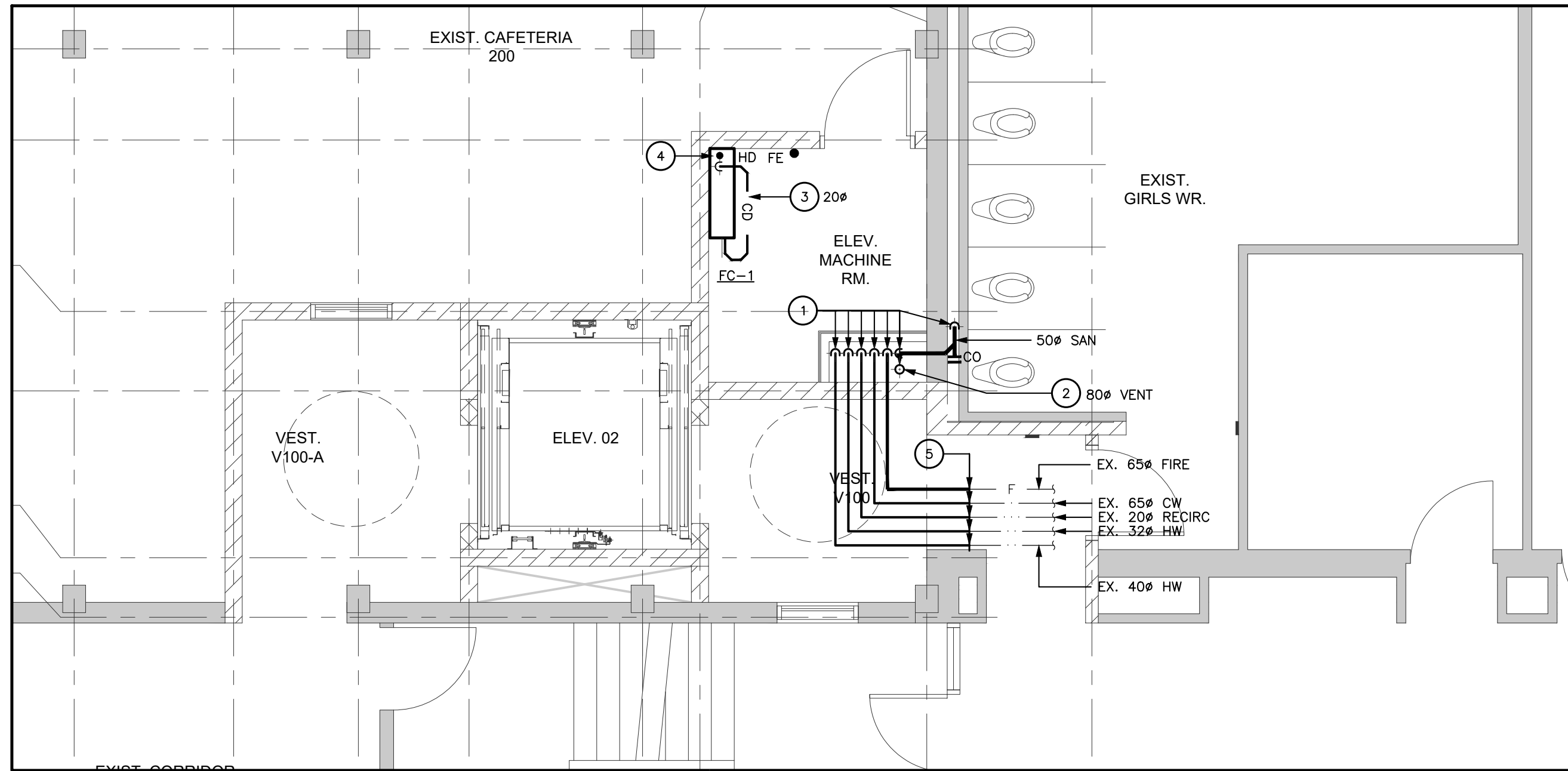
5 PARTIAL LEVEL 1 ELEVATOR 01 - NEW PLUMBING PLAN
M201 1:50

DRAWING NOTES

- EXISTING PLUMBING FIXTURE TO REMAIN.
- RISE PLUMBING VENT UP FROM FLOOR BELOW WITHIN FURRED OUT WALL AND CONNECT TO EXISTING BUILDING VENT ON THIS FLOOR AT CEILING LEVEL.

GENERAL NOTES

- ALL PIPING, VALVES AND EQUIPMENT TO BE CONCEALED UNLESS OTHERWISE NOTED.
- CO-ORDINATE ALL FLOOR DRAINS WITH ARCHITECTURAL DRAWINGS.
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6 PARTIAL LEVEL 1 ELEVATOR 02 - NEW PLUMBING PLAN
M201 1:50

DRAWING NOTES

- DROP PIPE DOWN TO FLOOR BELOW.
- NEW SANITARY VENT CONTINUES UP TO ROOF LEVEL. TERMINATE AT ROOF LEVEL.
- CONDENSATE DRAIN LINE FOR NEW FAN COIL UNIT.
- CONDENSATE DRAIN LINE TO SPILL INTO HUB DRAIN. FINAL LOCATION OF HUB DRAIN TO BE COORDINATED ON SITE.
- CONNECT NEW PIPE TO EXISTING SYSTEM.

GENERAL NOTES

- ALL PIPING, VALVES AND EQUIPMENT TO BE CONCEALED UNLESS OTHERWISE NOTED.
- CO-ORDINATE ALL FLOOR DRAINS WITH ARCHITECTURAL DRAWINGS.
- ALL RUNNING TRAPS TO BE COMPLETE WITH TRAP SEAL PRIMER CONNECTION.
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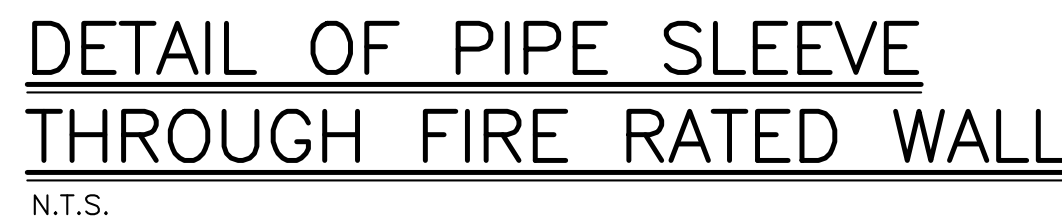
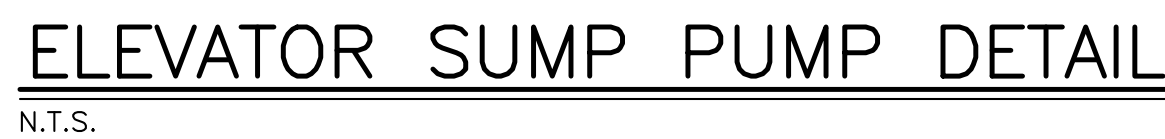
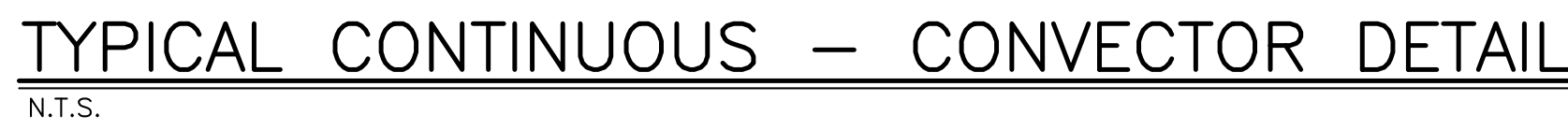
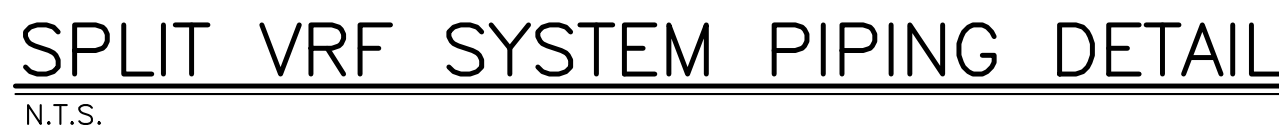
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Drawing Title:
ELEVATORS
NEW DRAINAGE
AND PLUMBING PLANS

Scale: AS NOTED Date: 2025-03-03
Drawn by: CC Checked by: WD
Job No. Drawing No.
ALL-22020201 M201



JOB NAME				T.A. BLACKLOCK HIGH SCHOOL RENOVATIONS			
MECHANICAL SCHEDULE - CONVECTION RADIATOR							
OWG DESIGNATION	SYSTEM and ROOM	MODEL	ROWS	ENCLOSURE HEIGHT (IN)	OUTPUT (BTU/HRFT)	AVG WMT TEMP (F)	MECHANICAL REMARKS
WF-1	NEW WASHROOMS	ENGA-WF-14	2 at 300mm CENTER	24	2000	170	CORNER TUBE ALUMINUM FIN MOUNT AT 100MM A.F.F. FIELD MOUNTS EXACT COVER BOTTOM PRIOR TO ORDERING. OWA ACCESS DOOR, CORNER HOOK, BUTT JOINT AND ENCLOSURE BRACKETS, HANGERS AND END CAPS.

JOB NAME: T.A. BLACKLOCK HIGH SCHOOL RENOVATIONS											ALL: 2/20/2021			
MECHANICAL SCHEDULE - FANS														
DWG. DESIGNATION	SYSTEM AND ROOM	MODEL	FLOW (CFM)	BSP (IN W.G.)	TSP (IN W.G.)	RPM	VFD	WEIGHT (LBS)	MECHANICAL REMARKS	WIRING FOR MECHANICAL EQUIPMENT SCHEDULE				ELECTRICAL WIRING INSTRUCTIONS
										MOTOR W or HP	MCA	MCB	VAC(y)	
EF-1	EXISTING WASHROOMS	GREENHECK QB-140-B	1200	0.25	0.32	867		81	ROOMMOUNTED CENTRIFUGAL EXHAUST FAN, COMPLETE WITH GR 18IN ROOF CLRB. BD-100 EXHAUST DRAFTER, NEMA 1 TOGGLE SWITCH, CONDUIT CHASE, JUNCTION BOX MOUNTED AND WIRED. BPO S/DREN	0.25 HP	-	15	1151V	DIVISION 16 TO WIRE POWER TO FAN MOUNTED JUNCTION BOX.

JOB NAME		T.A. BLAKELOCK HIGH SCHOOL RENOVATIONS										ALL: 2/20/2021		
MECHANICAL SCHEDULE - CONDENSING UNITS														
DWG. DESIGNATION	EVAPORATOR UNIT DESIGNATION	SYSTEM and ROOM	MODEL	WBHGT (LBS)	COOLING				MECHANICAL REMARKS	WIRING FOR MECHANICAL EQUIPMENT SCHEDULE				ELECTRICAL WIRING INSTRUCTIONS
					AMBIENT (F)	CAPACITY (MBH)	SOUND PRESSURE (DBA)	EBR		(MOTOR)	MCA FLA	MCOP	VACIB	
CL1, CL2	FC-1, FC-2	SERV NEW ELEV. MACHINE ROOM UNIT LOCATED ON ROOF	DAIKIN RPH15A-VUJU	101	115	22	49	12	INTERLOCK WITH FC-1, FC-2, COMPLETE WITH LOW AMBIENT KIT, WIND Baffle AND EGCOPUT BASE FRAME.		14.23	20	208/1	DN: 20 TO WIRE CL4 AND CORRESPONDING FC UNIT SLATS THAT BOTH UNITS ARE FED FROM A SINGLE BREAKER, ALL CONTROL WIRING BY DV. 25.
NOTE: OPERATING RANGE + COOLING (-4F TO 115F). OUTDOOR UNIT MUST BE INSTALLED ON 16" HIGH STAND. START UP AND COMMISSIONING SHALL BE PERFORMED BY THE MANUFACTURER SUPPORTED BY INSTALLING CONTRACTOR. UNIT SHALL INCLUDE A MANUFACTURER SUPPLIED SNOW & WIND HODD KIT FOR EACH MODULE.														

JOB NAME		T.A. BLAKELOCK HIGH SCHOOL RENOVATIONS													
MECHANICAL SCHEDULE - VRF FAI COILS															
DWG. DESIGNATION	SYSTEM AND ROOM	MODEL	SPEC TYPE	INTEGRATED SYSTEM TAG	MIN	CMX	OA	ESP (IN W.G)	TOTAL COILING (MB)	WEIGHT LBS	MECHANICAL R5M&MS	WIRING FOR MECHANICAL EQUIPMENT SCHEDULE			
												MOTOR (KW)	MCA	M COP	VACQ
PC-1, PC-2	NEWBLEV MACHINE ROOM	DAIKIN FRP-18A-VXU	DX	Q1-1, Q1-2	390	754	-	-	18.1	30.5	INTERLOCK WITH Q1-1, Q1-2. COMPLETE WITH THERMOSTAT AND ALL REFRIGERANT PIPING SPECIALTIES. BUILT-IN DA-CA-CP-1 CONDENSATE PUMP	-	0.4	15	208 / 1

JOB NAME		T.A. BLAUROCK HIGH SCHOOL RENOVATIONS										JOB No.		ALL: 2020-001		
MECHANICAL SCHEDULE - SUMP PUMPS																
DWG. DESIGNATION	SYSTEM AND ROOM	MANUFACTURER MODEL	SIZE (IN)	FLOW (GPM)	HEAD (FT)	EFF. (%)	VFD	MECHANICAL REMARKS	WIRING FOR MECHANICAL EQUIPMENT SCHEDULE					ELECTRICAL INSTRUCTIONS		
									MOTOR W or HP	MCA FLA	MCOIP	VAC/PH	ROOM STARTER TYPE		REMOTE CONTROL DEVICE	DESC. TYPE
SP-1, SP-2	SUMP PUMP - ELEVATOR RT SANITARY	BELL & GOSSETT BLAT200011	-	50	25	NO		SIMPLEX CAST IRON CONSTRUCTION LIFT OFF: 15A CONNECTION TIE IN: PRICE 30"HP LIFTING GOWN & CONTROL, PRNG. DWG WAS SACKET CONNECTION TIE IN: PRICE 30"HP REINFORCED FIBERGLASS RT EQUAL TO BARBERS. PROVIDE BASIN RT COVER WITH HINGED ACCESS DOOR & LIFTING HANDLE	1/2 HP	14.5	15	120V1	BC	CONTROLLER	C2	DIV 26 TO PROVIDE DISCONNECT AND WIRE POWER FEEDER TO PUMP FROM CONTROLLER TO PUMP.

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[illegible]

General Contractor shall check and verify all dimensions and report all errors and omissions to the Architect. Do not scale the drawings. Drawings shall not be used for construction purposes until issued by the Architect for construction.

Drawing Title:
**MECHANICAL
AND ELECTRICAL
SCHEDULES**

Scale: N.T.S.	Date: 2025-03-03
Drawn by: JL	Checked by: WD
Job No. ALL-22020201	Drawing No. ME100