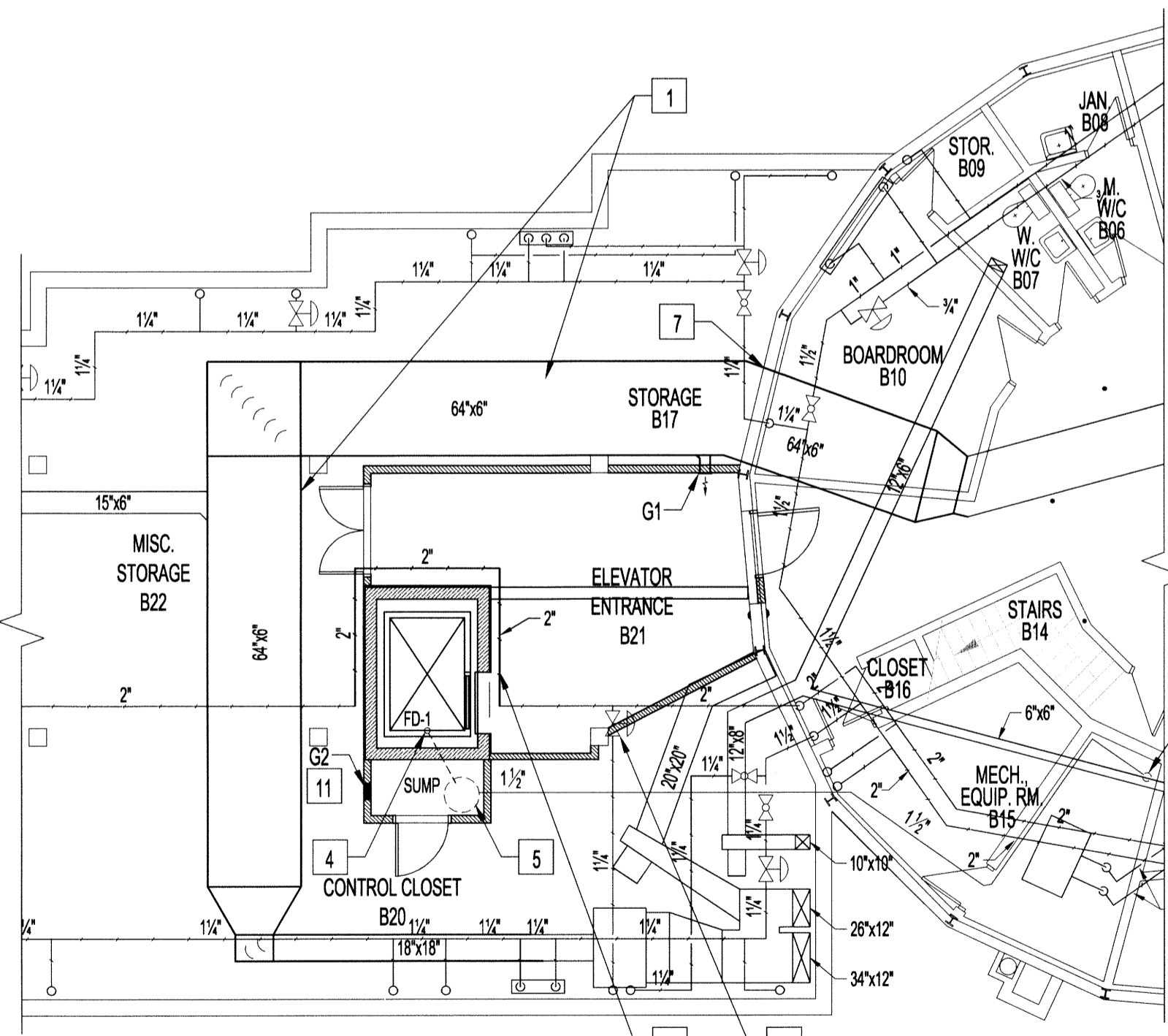


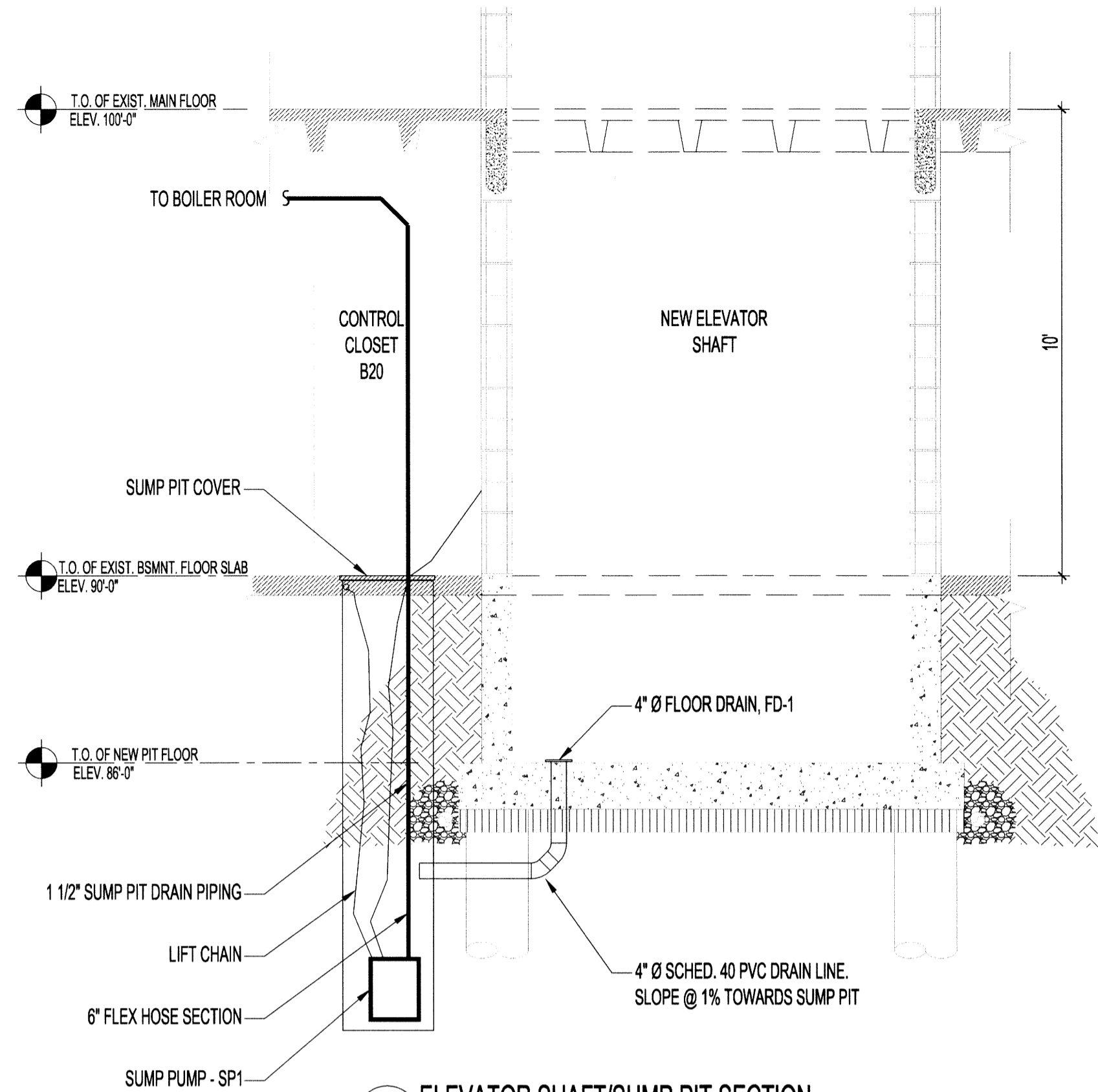
1 BASEMENT PLAN - MECHANICAL DEMOLITION
M1 | M1 | SCALE 1/8" = 1'-0"



2 BASEMENT PLAN - MECHANICAL RENOVATION
M1 | M1 | SCALE 1/8" = 1'-0"

MECHANICAL DEMOLITION NOTES:

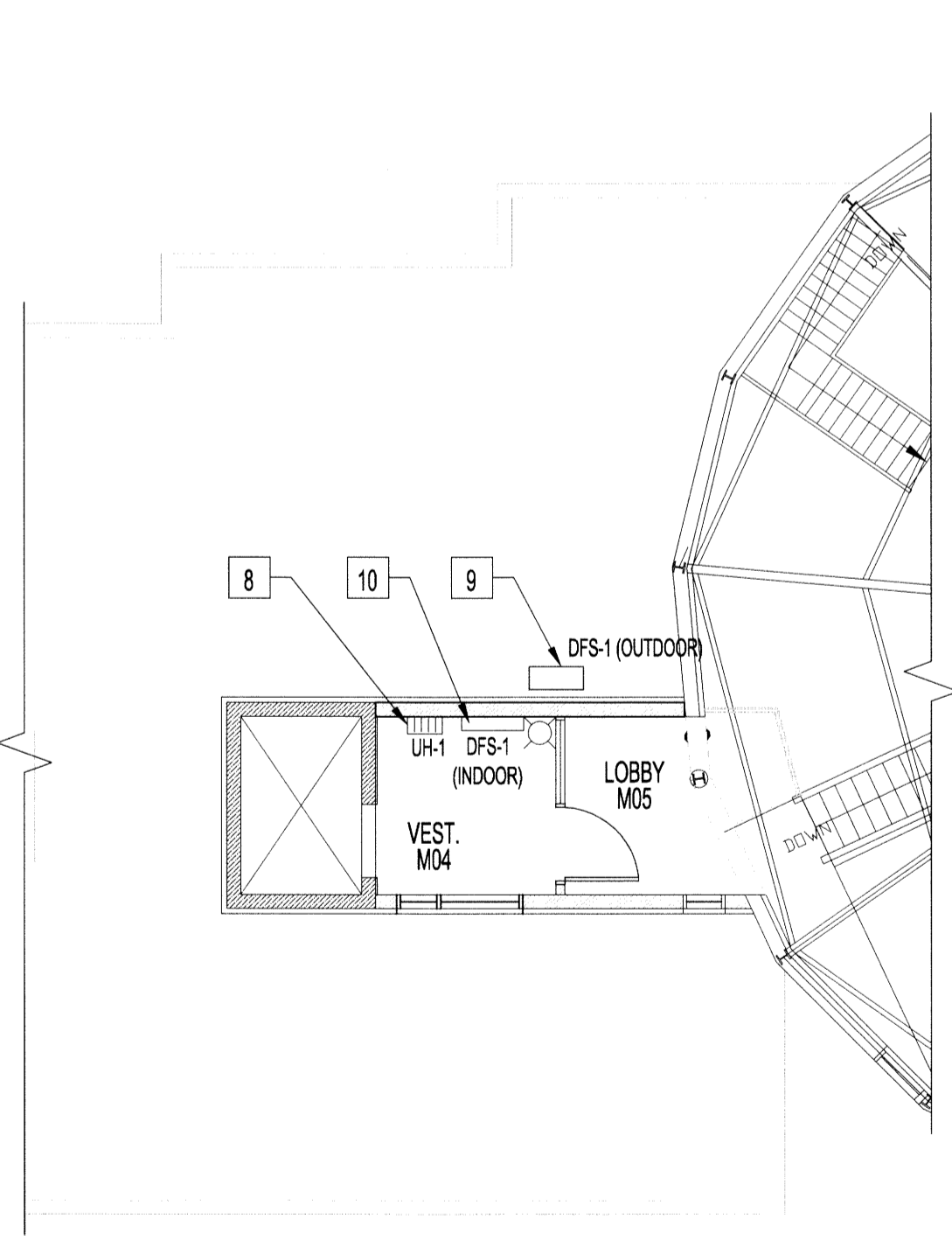
- EXISTING TO REMAIN
 - - - - - TO BE DEMOLISHED
- 1 REMOVE AND DISCARD EXISTING HVAC DUCTWORK AS SHOWN TO ACCOMMODATE NEW ELEVATOR SHAFT. HVAC DUCTWORK WILL BE REPLACED WITH NEW AS PER BASEMENT PLAN - MECHANICAL RENOVATION ON THIS DRAWING.
 - 2 REMOVE AND DISCARD EXISTING 2" Ø STEAM PIPING AS SHOWN TO ACCOMMODATE NEW ELEVATOR SHAFT. STEAM PIPING WILL BE REPLACED WITH NEW AS PER BASEMENT PLAN - MECHANICAL RENOVATION ON THIS DRAWING.
 - 3 NEW ELEVATOR SHAFT - SEE ARCHITECTURAL DRAWINGS FOR LOCATION.



4 ELEVATOR SHAFT/SUMP PIT SECTION
M1 | M1 | SCALE 3/8" = 1'-0"

BASEMENT MECHANICAL RENOVATION NOTES:

- 1 INSTALL NEW HVAC DUCTWORK, FITTINGS, HANGERS, ETC. AS SHOWN TO ACCOMMODATE NEW ELEVATOR SHAFT. LOCATION AND SIZE AS PER DRAWINGS.
- 2 INSTALL NEW STEAM PIPING, FITTINGS, HANGERS, ETC. AS SHOWN TO ACCOMMODATE NEW ELEVATOR SHAFT. LOCATION AND SIZES AS PER DRAWINGS. STEAM PIPING TO BE SCHEDULE 40 BLACK TO MATCH EXISTING. PRESSURE TEST ALL NEW STEAM LINES. INSULATE ALL STEAM LINES AND CONDENSATE LINES.
- 3 RELOCATE EXISTING STEAM PIPING VALVES AS REQUIRED TO ACCOMMODATE INSTALLATION OF NEW PARTITION WALL. VALVES TO BE ACCESSIBLE FROM STORAGE AREA.
- 4 NEW 4" Ø FLOOR DRAIN IN ELEVATOR PIT. SEE DETAIL 4 ON THIS DRAWING.
- 5 NEW SABER MODEL SSP-01 CW SSP-01E EXTENSIONS AS REQUIRED. MINIMUM 60 IMPERIAL GALLON SUMP PORTION. SEE DETAIL 4 ON THIS DRAWING.
- 6 NEW 1 1/2" Ø SUMP PUMP DISCHARGE PIPED TO EXISTING FLOOR DRAIN IN BOILER ROOM. MATCH TERMINATION ELEVATION OF EXISTING PIPES. PROVIDE NEW FUNNEL ON EXISTING FLOOR DRAIN TO CAPTURE DISCHARGE FROM PIPES.
- 7 PROVIDE FIRE DAMPER IN DUCTING AT FIRE SEPARATION.
- 8 NEW UNIT HEATER IN MEZZANINE VESTIBULE - SEE MECHANICAL EQUIPMENT SCHEDULE FOR TYPE.
- 9 NEW OUTDOOR CONDENSING UNIT ON ROOF AS SHOWN. ENSURE PROPER ANCHORING TO EXISTING ROOF. CONNECT TO INDOOR COOLING UNIT IN M04 - VESTIBULE AS PER MANUFACTURER'S INSTRUCTIONS - SEE MECHANICAL EQUIPMENT SCHEDULE FOR TYPE.
- 10 NEW INDOOR COOLING UNIT CONNECTED TO OUTDOOR CONDENSING UNIT AS PER MANUFACTURER'S SPECIFICATIONS. MOUNTED CLOSE TO CEILING ON WALL SHOWN. CONFIRM FINAL LOCATION ON SITE - SEE MECHANICAL EQUIPMENT SCHEDULE FOR TYPE. PROVIDE RECOMMENDED REFRIGERANT PIPING AND DRAIN PIPING. INSULATE REFRIGERANT PIPING AS PER MANUFACTURER'S INSTRUCTIONS. CONCEAL DRAIN PIPING IN WALL TO DISCHARGE OUTDOORS TO DRAIN ONTO ROOF.
- 11 MOUNT TRANSFER AIR GRILLE AT HIGH LEVEL



3 MEZZANINE PLAN - MECHANICAL RENOVATION
M1 | M1 | SCALE 1/8" = 1'-0"

MECHANICAL SYMBOLS	
SYMBOL	DESCRIPTION
	EXISTING BALL VALVE
	EXISTING GATE VALVE
	EXISTING ANGLE VALVE
	EXISTING STRAINER
	NEW FIRE EXTINGUISHER
	EXISTING DUCTWORK/PIPING TO BE REMOVED
	EXISTING STEAM PIPING
	NEW HVAC DUCTWORK
	NEW STEAM PIPING
	NEW WALLS - SEE ARCHITECTURAL DRAWING

MECHANICAL EQUIPMENT SCHEDULE	
TAG	DESCRIPTION
FD-1	ZURN FD-2330 HEAVY DUTY ADJUSTABLE FLOOR DRAIN COMPLETE WITH FITTINGS AND 4" PVC HUB
SP-1	GRUNDFOS SUBMERSIBLE SUMP PUMP KP350A-1, 20 GPM @ 26 FT. HEAD, 1/2 HP, 120 V CW 25 FT. POWER CORD, FLOAT SWITCH, FLEX CONNECTION & CRANE #29 1 1/2" Ø VERTICAL CHECK VALVE AT PUMP OUTLET. PROVIDE RUST RESISTANT PULLUP CHAIN FOR PUMP AND PAINTED PLYWOOD SUMP PIT COVER WITH HANDLE.
UH-1	QAWH FORCED AIR WALL HEATER MODEL QAWH01500 - 1125 WATT, 160 CFM, 208 V (1 PHASE)
DFS-1 (OUTDOOR)	MITSUBISHI MR. SLIM OUTDOOR CONDENSING UNIT MODEL PUZ-A18NH43
DFS-1 (INDOOR)	MITSUBISHI MR. SLIM INDOOR WALL-MOUNTED COOLING UNIT MODEL PKA-A18HA CW DRAIN LIFT PUMP AND THERMOSTAT
G1	PRICE 610D 77x4" SINGLE DEFLECTION SUPPLY AIR GRILLE CW OPPOSED BLADE DAMPER. BALANCE TO PROVIDE 30CFM INTO ROOM B21.
G2	PRICE STG1 12"x8" TRANSFER AIR GRILLE. BORDER STYLE - B.

- NOTES:**
1. THESE DRAWINGS SHALL NOT BE SCALED.
 2. THE CONTRACTOR SHALL VISIT THE SITE AND SATISFY ONESELF ALL DIMENSIONS, DATUM, AND DETAILED INFORMATION SHOWN ARE CORRECT.
 3. THE CONTRACTOR IS TO REVIEW AND COORDINATE ALL ARCHITECTURAL, STRUCTURAL, MECHANICAL & ELECTRICAL DRAWINGS FOR ADDITIONAL OPENINGS THROUGH ROOFS, FLOORS, WALLS, AND CEILINGS FOR DUCTWORK, PIPE & ELECTRICAL RISERS AND ALL OPENINGS NOT SHOWN ON DRAWINGS.
 4. ALL NEW & EXISTING OPENINGS THROUGH FIRE ASSEMBLIES ARE TO BE FIRE STOPPED AND SEALED WITH ULC APPROVED FIRE STOPPING TO MAINTAIN THE INTEGRITY OF THE FIRE SEPARATION, AND PROVIDE A SMOKE-TIGHT BARRIER. FIRE DAMPERS TO BE INSTALLED IN ALL NEW DUCTS PASSING THROUGH FIRE BARRIERS
 5. ALL PRODUCTS AND MATERIALS TO BE USED AND INSTALLED SHALL CONFORM WITH MANUFACTURER'S SPECIFICATIONS & APPLICABLE CODES.
 6. THE CONTRACTOR SHALL BE RESPONSIBLE TO PATCH AND MAKE GOOD ALL EXISTING CONSTRUCTION AFFECTED BY THE REMOVAL OF ALL ITEMS FORMING THE PART OF THE RENOVATION WORK.
 7. SUPPLY & INSTALL MECHANICAL WORK AS SHOWN ON PLAN & THE FOLLOWING:
 - a. REMOVE & REROUTE ALL MECHANICAL ITEMS TO ACCOMMODATE THE ELEVATOR INSTALLATION.
 - b. INSULATE ALL RELOCATED AND NEW STEAM PIPING AND COVER WITH APPROVED MATERIALS.
 - c. THE PLANS ARE CONSIDERED AS DIAGRAMMATIC ONLY AND THE ENGINEER RESERVES THE RIGHT TO CHANGE THE LOCATION OF EQUIPMENT, PIPING, AND DUCTING TO WITHIN 10 FT. OF WHERE SHOWN PROVIDED SUCH CHANGE IS MADE PRIOR TO INSTALLATION.
 - d. PROVIDE ALL NECESSARY MECHANICAL HOOKUPS AS REQUIRED. VERIFY DETAILS WITH ELEVATOR SUPPLIER.
 - e. PROVIDE MECHANICAL INSPECTION CERTIFICATE AT THE COMPLETION OF THE PROJECT.
 - f. INSTALLATION OF EQUIPMENT MUST CONFORM TO THE ICC STANDARDS OF THE INTERNATIONAL MECHANICAL CODE, THE NATIONAL BUILDING CODE, INSTALLATION OF AIR CONDITIONING AND VENTILATING SYSTEMS STANDARD, NFPA 90A, ASHRAE, CSA & LOCAL BUILDING, PLUMBING & WASTE WATER CODES. ALL APPLIANCES MUST BE ELECTRICALLY GROUNDED IN ACCORDANCE WITH LOCAL CODES & THE LATEST CANADIAN ELECTRICAL CODE.
 - g. THE CONTRACTOR SHALL CERTIFY AND ENSURE ALL SYSTEMS ARE FUNCTIONING PROPERLY.
 - h. SEAL ALL NEW PENETRATIONS THROUGH EXTERIOR WALLS WEATHERTIGHT.

0	ISSUED FOR CONSTRUCTION	DJ	AUG 18 2014
No.	REVISION/DESCRIPTION	BY	DATE

SEAL

DRAWN: JAW, CHECKED: [Signature], DESIGNED: DJ, APPROVED: [Signature]

DATE: 2014.07.16

USER APPROVAL

THE CITY OF WINNIPEG
PLANNING, PROPERTY AND DEVELOPMENT DEPARTMENT
MUNICIPAL ACCOMMODATIONS DIVISION
3-65 GARRY STREET, R3C 4K4

PROJECT
**ST. VITAL LIBRARY
NEW ELEVATOR INSTALLATION**

6 FERMOR AVENUE

SHEET TITLE
**PARTIAL BASEMENT, MAIN & MEZZANINE FLOOR PLANS
MECHANICAL DEMOLITION & RENOVATION**

SCALE: AS SHOWN PROJECT No: 2013-154 SHEET No: M1

KGS GROUP
CONSULTING ENGINEERS

APEN
Certificate of Authorization
KGS GROUP
No. 245