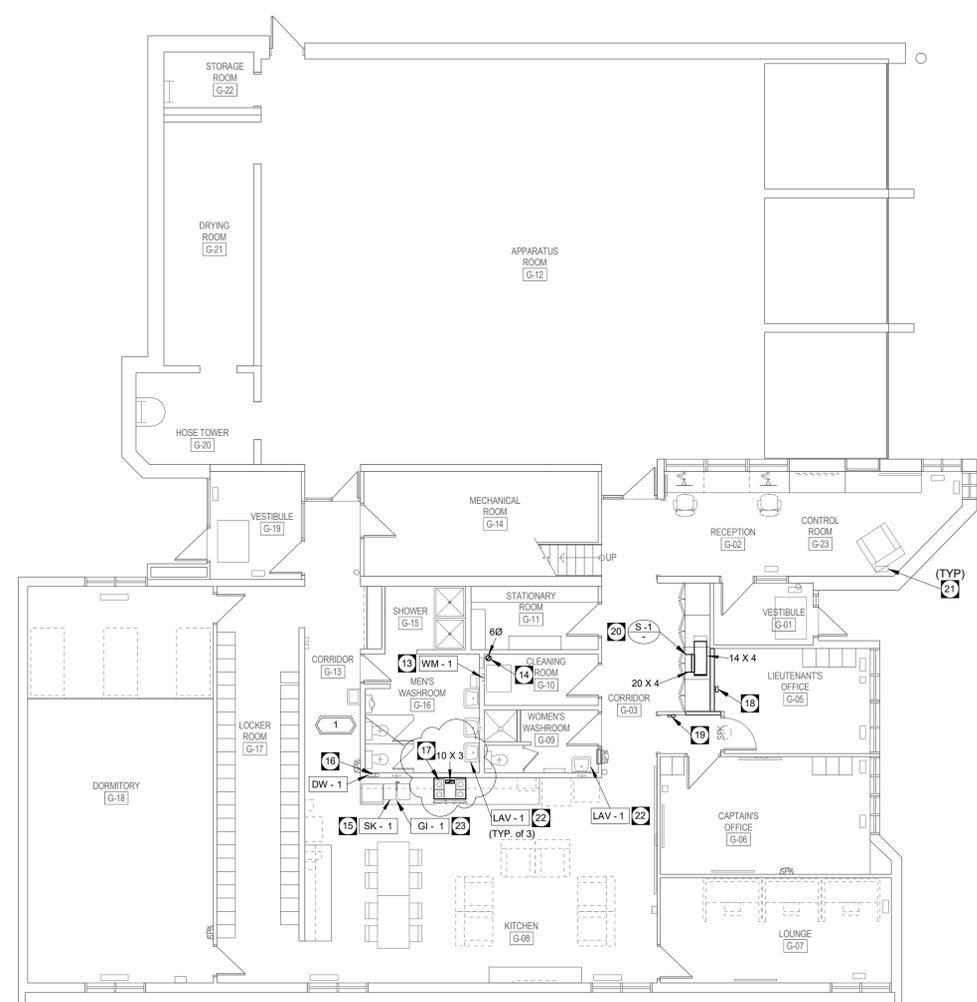
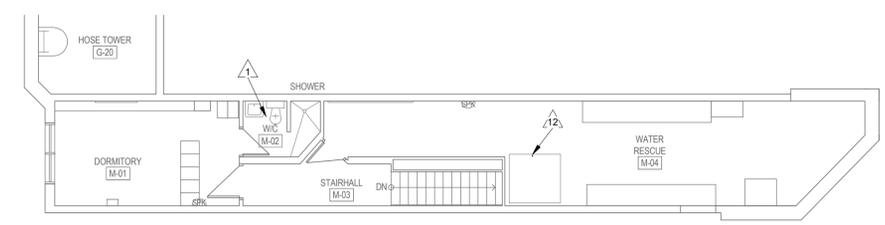


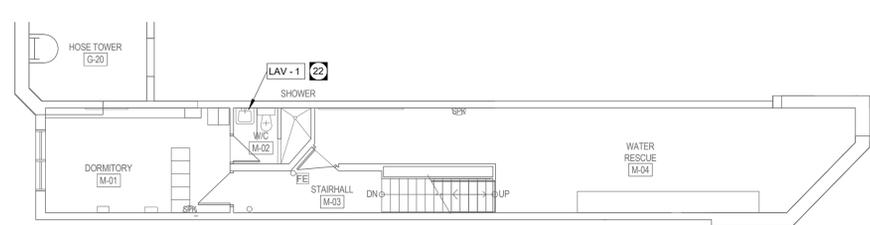
1 MAIN FLOOR PLAN - MECHANICAL DEMOLITION  
M2.1 SCALE: 1/8" = 1'-0"



2 MAIN FLOOR PLAN - MECHANICAL RENOVATION  
M2.1 SCALE: 1/8" = 1'-0"



3 MEZZANINE FLOOR PLAN - MECHANICAL DEMOLITION  
M2.1 SCALE: 1/8" = 1'-0"



4 MEZZANINE FLOOR PLAN - MECHANICAL RENOVATION  
M2.1 SCALE: 1/8" = 1'-0"

**MECHANICAL GENERAL NOTES**

- A. CONFORM TO APPLICABLE CODE FOR DEMOLITION WORK, DUST CONTROL, PRODUCTS REQUIRING ELECTRICAL DISCONNECTION OR RECONNECTION.
- B. CONFERENCE TO APPLICABLE REGULATORY PROCEDURES WHEN DISCOVERING HAZARDOUS OR CONTAMINATED MATERIALS.
- C. CLOSE OPENINGS IN EXTERIOR SURFACES TO PROTECT EXISTING WORK FROM WEATHER AND EXTREMES OF TEMPERATURE AND HUMIDITY.
- D. PROVIDE, ERECT, AND MAINTAIN TEMPORARY BARRIERS WHERE NEEDED TO CONTAIN CONSTRUCTION DEBRIS AND DUST. PROVIDE A MINIMUM MERV 8 FILTRATION ON EXISTING INLETS AND RETURN AIR DUCTS AND SYSTEMS.
- E. PROTECT EXISTING MATERIALS, EQUIPMENT, AND SYSTEMS WHICH ARE NOT TO BE DEMOLISHED.
- F. CONDUCT DEMOLITION TO MINIMIZE INTERFERENCE WITH OCCUPIED BUILDING AREAS.
- G. DISCONNECT, REMOVE, CAP, AND IDENTIFY DESIGNATED UTILITIES WITHIN DEMOLITION AREAS.
- H. REMOVE, CUT, AND PATCH WORK IN A MANNER TO MINIMIZE DAMAGE AND TO PROVIDE MEANS OF RESTORING SYSTEMS TO ORIGINAL CONDITION.
- I. CAREFULLY DISMANTLE EXISTING MECHANICAL EQUIPMENT TO BE REMOVED OR RELOCATED. TEMPORARILY DISCONNECT, REMOVE, AND REINSTALL EXISTING EQUIPMENT, PIPING, DUCTWORK, CONDUIT, LIGHT FIXTURES, AND SIMILAR ITEMS, WHICH INTERFERE WITH THE NEW INSTALLATION AFTER COMPLETION OF NEW WORK OR OF EXISTING INSTALLATIONS TO BE DEMOLISHED. STORE EQUIPMENT AND MATERIALS ON THE PREMISES AS DIRECTED BY THE OWNER.
- J. DEMOLISH IN AN ORDERLY AND CAREFUL MANNER. REMOVE DEMOLISHED MATERIALS FROM SITE EXCEPT WHERE SPECIFICALLY NOTED OTHERWISE. UPON COMPLETION OF WORK, LEAVE AREAS IN CLEAN CONDITION.
- K. ALL USABLE SALVAGED EQUIPMENT AND MATERIALS SHALL REMAIN THE PROPERTY OF THE OWNER UNLESS SPECIFICALLY NOTED OTHERWISE.
- L. FIRESTOP ALL MECHANICAL PENETRATIONS THROUGH FIRE-RATED FLOOR AND WALL ASSEMBLIES WHERE PIPES OR DUCTS WERE REMOVED. SEE ARCHITECTURAL DRAWINGS FOR LOCATION AND TYPE OF RATINGS.
- M. THE ABANDONMENT OF EXISTING EQUIPMENT AND MATERIAL IN PLACE IS NOT ACCEPTABLE. ALL REDUNDANT SERVICES ARE TO BE REMOVED BACK TO ACTIVE MAINS, WHICH SHALL THEN BE CAPPED AT EXISTING POINT OF CONNECTION.
- N. FIRESTOP ALL MECHANICAL PENETRATIONS THROUGH FIRE-RATED FLOOR AND WALL ASSEMBLIES. SEE ARCHITECTURAL DRAWINGS FOR LOCATION AND TYPE OF RATINGS.
- O. THE CONTRACTOR SHALL SIZE AND COORDINATE PLUMBING VENTING AND COORDINATE DOMESTIC WATER AND SANITARY PIPE ROUTING. THE CONTRACTOR SHALL ALLOW FOR THE POSSIBILITY OF INTERFERENCES AND SHALL RESOLVE WITH OTHER TRADES ON SITE. ANY CHANGES TO THE DESIGN INTENT REQUIRE APPROVAL BY THE ENGINEER.
- P. ALL NEW CORING FOR PLUMBING SERVICES SHALL BE DONE BY MECHANICAL CONTRACTOR. COORDINATE WITH ALL OTHER TRADES.
- Q. CONTRACTOR SHALL SCAN FOR REBAR AND CONDUIT AND PROVIDE RESULTS OF SCAN IN WRITING TO OWNER PRIOR TO CORING OR DRILLING IN ANY CONCRETE WALL OR FLOOR.
- R. COORDINATE FINAL THERMOSTAT INSTALLATION HEIGHT AND DISTANCE FROM DOOR WITH ARCHITECT.

**KEY NOTES**

- 1 EXISTING WASHROOM FIXTURES AND TRIM TO REMAIN UNLESS OTHERWISE NOTED. DEMOLISH EXISTING LAVATORY FAUCET(S) AND PIPING BACK TO VALVE STOPS. LAVATORIES TO RECEIVE NEW FAUCET DURING RENOVATION.
- 2 DEMOLISH EXISTING DOMESTIC WATER AND SANITARY CONNECTIONS TO DISHWASHER. RETAIN CONNECTIONS FOR FUTURE DISHWASHER INSTALLATION DURING RENOVATION.
- 3 DEMOLISH EXISTING EXHAUST SYSTEM SERVING GRILLE ENTIRELY.
- 4 REMOVE EXISTING RANGE HOOD AND TURN OVER TO OWNER.
- 5 DEMOLISH EXISTING SINK AND ASSOCIATED TRIM. DEMOLISH DOMESTIC WATER AND SANITARY PIPING TO WITHIN WALL CAVITY. PIPING SHALL BE EXTENDED TO SERVE NEW SINK. REFER TO RENOVATION PLAN.
- 6 DEMOLISH EXISTING SERVICE SINK AND ASSOCIATED TRIM. DEMOLISH SANITARY PIPING BACK TO WITHIN CRAWLSPACE. PIPING TO BE EXTENDED TO NEW WASHING MACHINE BOX. REFER TO RENOVATION PLAN. COORDINATE FLOOR PATCHING WHERE EXISTING PIPING WAS REMOVED WITH GENERAL CONTRACTOR.
- 7 DEMOLISH EXISTING FLOOR MOUNTED GRILLE. DUCTWORK TO REMAIN FOR USE IN CONSTRUCTION. REFER TO RENOVATION PLAN.
- 8 DEMOLISH EXISTING URINAL. DEMOLISH DOMESTIC WATER AND SANITARY PIPING SO THAT IT IS FLUSH WITH WALL. PROVIDE CHROME PLATED COVER PLATES.
- 9 REMOVE EXISTING CO MONITOR. MONITOR TO BE RELOCATED DURING CONSTRUCTION. REFER TO RENOVATION PLAN.
- 10 REMOVE EXISTING HUMIDISTAT. HUMIDISTAT TO BE RELOCATED DURING CONSTRUCTION. REFER TO RENOVATION PLAN.
- 11 REMOVE EXISTING FLOOR MOUNTED SUPPLY GRILLE TO ALLOW FOR INSTALLATION OF NEW FLOORING. REINSTALL GRILLE AFTER FLOORING IS COMPLETE. SEAL OFF DUCTWORK DURING CONSTRUCTION. ASSOCIATED FURNACE SHALL BE OFF WITH ALL DUCTWORK COVERED DURING DEMOLITION AND RENOVATION PHASE. TYPICAL ALL.
- 12 EXISTING EXHAUST FAN AND ASSOCIATED DUCTING TO REMAIN.
- 13 PROVIDE NEW RECESSED WASHING MACHINE BOX. EXTEND AND MODIFY EXISTING DOMESTIC WATER WITHIN WALL CAVITY TO SUIT NEW FIXTURE LOCATION. SANITARY PIPING SHALL DROP CONCEALED WITHIN WALL AND CONNECT INTO EXISTING WITHIN CRAWLSPACE.
- 14 ALUMINUM DRYER DUCT TO RUN TIGHT TO WALL AND TERMINATE AT ROOF THROUGH HOOD. HOOD SHALL BE PREMANUFACTURED PAINTED ALUMINUM ROOF HOOD, SUITABLE FOR INSTALLATION ON A PITCHED SHINGLED ROOF. COMPLETE WITH BACKDRAFT DAMPER AND BIRD SCREEN. COORDINATE HOOD INSTALLATION WITH GENERAL CONTRACTOR. INSULATE DRYER DUCTING FOR ENTIRE LENGTH WITHIN ATTIC. ALLOW FOR FLEXIBLE DUCT CONNECTION FROM DRYER DUCTING TO DRYER TERMINATION.
- 15 PROVIDE NEW TRIM FOR INTEGRAL KITCHEN SINK. EXTEND AND MODIFY EXISTING DOMESTIC WATER PIPING AS REQUIRED TO SUIT NEW LOCATION. PLUMBING PIPING SHALL RUN CONCEALED WITHIN WALL AND ONLY PENETRATE DIRECTLY BELOW NEW SINK WITH NEW CHROME PLATED VALVE STOPS WITH VALVE WHEEL. SANITARY PIPING SHALL DROP WITHIN MILLWORK AFTER CONNECTION TO GREASE INTERCEPTOR TO CRAWLSPACE AND CONNECT TO EXISTING. EXTEND AND MODIFY VENTING AS REQUIRED.

- 16 PROVIDE DOMESTIC WATER AND SANITARY ROUGH IN FOR DISHWASHER AND CONNECT TO PREVIOUSLY DEMOLISHED DISHWASHER PIPING. CONNECT TO SINK DRAIN WITH CONNECTED DISHWASHER CONNECTION. CONTRACTOR TO ENSURE PIPING IS INSTALLED NEATLY WITHIN OPEN CABINETS.
- 17 NEW RANGE HOOD ABOVE ELECTRIC STOVE (PROVIDED BY OTHERS). PROVIDE DUCT CONNECTION FOR RANGE HOOD OPERATION. DUCTING SHALL RUN TIGHT TO WALL AND EXIT THROUGH ROOF. HOOD SHALL BE PREMANUFACTURED PAINTED STEEL, SUITABLE FOR INSTALLATION ON A PITCHED SHINGLED ROOF. COMPLETE WITH BACKDRAFT DAMPER AND BIRD SCREEN. COORDINATE HOOD INSTALLATION WITH GENERAL CONTRACTOR. INSULATE RANGE HOOD EXHAUST DUCTING FOR ENTIRE LENGTH WITHIN ATTIC.
- 18 INSTALL EXISTING HUMIDISTAT ON WALL. EXTEND AND MODIFY EXISTING WIRING AS REQUIRED. COORDINATE ANY REQUIREMENTS WITH ELECTRICAL.
- 19 INSTALL EXISTING CO MONITOR ON WALL. INSTALL MONITOR IN ACCORDANCE WITH MANUFACTURER INSTRUCTIONS AND CODE REQUIREMENTS. COORDINATE INSTALLATION WITH ELECTRICAL CONTRACTOR AND ENSURE ANY REQUIRED INTERLOCKS ARE FUNCTIONAL.
- 20 PROVIDE NEW GRILLE MOUNTED WITHIN CABINET TOEPLATE. CONNECT TO EXISTING DUCT. MODIFY AND EXTEND AS REQUIRED TO RUN WITHIN TOESPACE OF CABINET TO GRILLE.
- 21 REINSTALL ALL SUPPLY AND RETURN GRILLES AS REQUIRED AFTER CONSTRUCTION HAS BEEN COMPLETED. TYPICAL ALL.
- 22 PROVIDE NEW HANDS FREE ELECTRONIC FAUCET FOR EACH LAVATORY. PROVIDE NEW CHROME PLATED COPPER SUPPLY PIPING FROM VALVE STOP TO NEW MIXING VALVE AND TO FAUCET. LOCATE MIXING VALVE AND FAUCET CONTROLLER NEATLY BELOW LAVATORY. TIGHT TO WALL, OUT OF VIEW. LOOSE EQUIPMENT OR WIRING IS NOT ACCEPTABLE.
- 23 PROVIDE NEW GREASE INTERCEPTOR BELOW KITCHEN SINK. INSTALL AS PER MANUFACTURERS GUIDELINES AND ENSURE CLEARANCE IS MAINTAINED FOR ACCESS TO COVER.

**MECHANICAL FIXTURE BASIS OF DESIGN:**

SK-1: (Trim Only) T&S Brass B-0133-B, chrome plated, wall mount, pre-rinse unit, 8" wall mount mixing faucet with lever handles, 1.15 gpm spray valve, 44" flexible stainless steel hose. Chrome plated drainage piping.

GI-1: Zum GT2700-10, 10 GPM/20 lbs grease capacity, corrosion-resistant coated fabricated steel with no-hub connections, flow diffusing baffle, integral trap, vented inlet flow control device, gas/water tight cover, certified to ASME A112.14.3 (Type C) and CSA B481.1 standards.

LAV-1: (Faucet Only) Delta 591T1220 hands free, battery operated faucet c/w Delta R307MIXLF thermostatic mixing valve. Chrome plated, 4" on center mounting, surface mount control box, 5 Year limited warranty.

WM-1: Oley Quadro, PVC enclosure, DCW, DHW, 2" drain knockout, backflow preventer, shut-off valves with water hammer arrestors on water connections.

**DIFFUSER & GRILLES SCHEDULE**

MARK	MODEL	NOTES
S 1	20x4LBP15AL66500FID	1.2

1. EH PRICE LINEAR BAR GRILLE, NARROW SPACING, STREAMLINED BLADES.  
2. SUITABLE FOR INSTALLATION IN CABINET TOE PLATE.

**PLUMBING FIXTURE PIPE SIZE SCHEDULE**

MARK	DCW	DHW			SANITARY			VENT	
		1/2"	3/4"	1"	1/2"	3/4"	1"		
DW	1	0"	0 mm	1/2"	13 mm	1 1/2"	38 mm	1 1/4"	32 mm
LAV	1	1/2"	13 mm	1/2"	13 mm	1 1/4"	32 mm	1 1/4"	32 mm
SK	1	1/2"	13 mm	1/2"	13 mm	1 1/2"	38 mm	1 1/4"	32 mm
WM	1	1/2"	13 mm	1/2"	13 mm	2"	51 mm	1 1/2"	38 mm

\* FOLLOW PIPE SIZES GIVEN IN ABOVE CHART UNLESS DRAWING SHOWS DIFFERENTLY.



Project: WINNIPEG FPS FIRE STATION #13 INTERIOR RENOVATIONS 799 LILAC STREET

**FLOOR PLANS - MECHANICAL**

Project No: 19089A  
Date: 20-06-09

**M2.1-R1**