



SECOND FLOOR PLAN - MECHANICAL RENOVATION  
SCALE: 1/8"=1'-0"

**MECHANICAL RENOVATION NOTES:**

ALSO REFER TO MECHANICAL & PLUMBING SPECIFICATION DRAWING.

- 1 ALL MIXING BOX DISCHARGE DUCTS, CONNECTED SUPPLY DUCTS INCLUDING EXISTING DUCTS TO UNDERSIDE OF 3RD FLOOR SHALL BE INSULATED ON THE OUTSIDE WITH AN 1-1/2" THICK (MIN.) FORMALDEHYDE-FREE, FLEXIBLE GLASS FIBER BLANKET WITH ALUMINUM FOIL FACING. JOHNS MANVILLE MICROLITE XG FORMALDEHYDE-FREE FIBER GLASS DUCT WRAP. BEFORE APPLYING DUCT WRAP, SHEET METAL DUCTS SHALL BE CLEAN, DRY AND TIGHTLY SEALED AT ALL JOINTS AND SEAMS. MANUFACTURERS INSTALLATION INSTRUCTIONS SHALL ALSO BE FOLLOWED.
- 2 ALL EXISTING AND NEW STEAM PIPING, ALL PUMPED CONDENSATE PIPING, ALL HOT WATER SUPPLY AND RETURN PIPING INCLUDING RUNOUTS, BRANCH STUBS, ETC. SHALL BE INSULATED WITH JOHNS MANVILLE 1" THICK MICRO-LOK FIBER GLASS INSULATION. ALL INSULATION ON PIPING SHALL BE APPLIED OVER CLEAN AND DRY AND OIL FREE SURFACES. MANUFACTURERS INSTALLATION INSTRUCTIONS SHALL ALSO BE FOLLOWED.
- 3 ALL EXISTING FIN-TUBE RADIATION ELEMENTS BENEATH WINDOWS AND IN WALLS SHALL BE VACUUMED FOR DROP DEBRIS, CLEANED AND COMBED.
- 4 REPOSITIONED MIXING BOXES FROM DEMOLITION INCLUDE M-200, M-201, M-202, M-203, M-204 & M-238. THESE REPOSITIONED MIXING BOXES SHALL BE CONFIGURED WITH NEW INSULATED DUCTING, VOLUME DAMPERS AND GRILLES AS SHOWN. MIXING BOXES M-205, M-196, M-197, M-363 & M-361 DO NOT NECESSARILY REQUIRE REPOSITIONING, BUT REQUIRE NEW INSULATED DUCTING, VOLUME DAMPERS AND GRILLES AS SHOWN. THE REPOSITIONING MIXING BOXES SHALL BE 12 FEET MINIMUM FROM THE FLOOR TO THE UNDERSIDE OF THE LOWEST PART OF THE MIXING BOX OR INSULATED DUCTS.
- 5 SUPPLY & INSTALL RETURN GRILLES.
- 6 SUPPLY & INSTALL NEW THERMOSTATS AS SHOWN.
- 7 SUPPLY & INSTALL RELIEF DOOR GRILLES ON WASHROOM DOORS. PRICE, MODEL 18" X 12" / ATG1 / C / B15.
- 8 CLEAN EXISTING DAMPER ASSEMBLY. CHECK FOR FUNCTIONALITY.
- 9 BLANK-OFF EXISTING DUCTS WITH 1/4" STEEL PLATE & GASKET FOR LEAK-FREE JOINT.
- 10 M-198 & M-199: REPLACE EXISTING FLEX-DUCTS.
- 11 ALL OTHER EXISTING MIXING BOXES, HIGH PRESSURE, LOW PRESSURE & SUPPLY DUCTS SHALL BE SURVEYED FOR LEAKS AND REWORKED OR REPLACED WITH NEW COMPONENTS TO STOP LEAKS.

**MECHANICAL SYMBOLS**

- EXISTING
- - - TO BE DEMOLISHED
- BALANCE DAMPER (SUPPLY & INSTALL)
- ⊠ SUPPLY DUCT (SUPPLY & INSTALL)
- ⊡ RETURN DUCT (SUPPLY & INSTALL)
- ⊢ FLEX DUCT (SUPPLY & INSTALL)  
THERMO FLEX, MODEL S-TL
- ⊣ GRILL TYPE (SEE GRILLE SCHEDULE)  
SIZE  
CFM
- T THERMOSTAT (SUPPLY & INSTALL)  
PNEUMATIC DIRECT ACTING HONEYWELL  
TP970A 2020-4 WITH WALL PLATE ADAPTER  
KIT 1400-3192-001.
- ⊞ MIXING BOX (EXISTING)

**NEW GRILLE SCHEDULE**

TYPE	QTY	DESCRIPTION	MANUFACTURER
⊠	39	SQUARE PLAQUE DIFFUSER, 24" x 24" x 8" INLET, COLOR WHITE POWDER COAT	E.H. PRICE 8' / 24" x 24" / SPD / B12
B	5	EGG CRATE FACE RETURN, 24" X 48", COLOR: COOL WHITE POWDER COAT	E.H. PRICE 24" x 48" / 81 / TSF / B12
C	7	EGG CRATE FACE RETURN, 24" X 8", COLOR: COOL WHITE POWDER COAT	E.H. PRICE 24" x 8" / 81 / TSF / B12

NEW GRILLE SCHEDULE QUANTITIES SHOWN ABOVE ARE FOR REFERENCE ONLY. CONTRACTOR IS RESPONSIBLE FOR QUANTITY TAKE-OFF FROM DRAWING.

**NOTES :**

- THESE DRAWINGS SHALL NOT BE SCALED.
- THE CONTRACTOR SHALL VISIT THE SITE AND SATISFY HIMSELF ALL DIMENSIONS, DATUM AND DETAILED INFORMATION SHOWN ARE CORRECT.
- THE CONTRACTOR IS TO REVIEW AND COORDINATE ALL ARCHITECTURAL, MECHANICAL, ELECTRICAL AND STRUCTURAL DRAWINGS FOR ADDITIONAL OPENINGS THROUGH FLOORS, WALLS, AND CEILINGS FOR DUCT, PIPE & ELECTRICAL RISERS AND ALL OPENINGS NOT SHOWN ON DRAWINGS.
- ALL 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.
- ALL PRODUCTS AND MATERIALS TO BE USED AND INSTALLED SHALL CONFORM WITH MANUFACTURER'S SPECIFICATIONS & APPLICABLE CODES.
- 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.
- WHERE NEW FLOORING AND BASE IS TO BE INSTALLED IN EXISTING AREAS (REFER TO FLOOR PLAN AND ROOM SCHEDULES) THE EXISTING FLOORING SURFACE AND BASE MUST BE REMOVED, UNLESS OTHERWISE NOTED. ALL FLOOR SURFACES SHALL BE PREPARED IN ACCORDANCE TO MANUFACTURER'S RECOMMENDATIONS FOR INSTALLATION OF NEW FLOOR.
- WHERE PAINTING OF EXISTING WALLS IS INDICATED ON THE ROOM SCHEDULE, THESE WALLS MUST BE CLEANED OF ANY EXISTING WALL COVERINGS, PATCHED & PREPARED TO ACCEPT NEW MATERIAL, UNLESS OTHERWISE NOTED.

ORIGINAL STAMPED BY: D. PALEY, P.ENG  
DATE: 2005.11.16

1 RELOCATED DUCTWORKS, GRILLES & MIXING BOX (M-238).  
ADDED MECHANICAL RENOVATION NOTE 11.

NO.	REVISION/DESCRIPTION	BY	DATE
1	RELOCATED DUCTWORKS, GRILLES & MIXING BOX (M-238). ADDED MECHANICAL RENOVATION NOTE 11.	RCP	2005.11.30

DRAWN BY	RCP	CHECKED BY	APPROVED
DATE	2005.11.16	USER APPROVAL	

**CITY OF WINNIPEG**  
PLANNING, PROPERTY & DEVELOPMENT DEPARTMENT  
CIVIC ACCOMMODATIONS DIVISION  
300 - 65 GARRY ST. R3C 4K4

**PROJECT**  
ADMINISTRATION BUILDING  
2ND FLOOR RENOVATIONS  
CONVERSION TO OFFICE AREA  
510 MAIN STREET

**SHEET TITLE**  
SECOND FLOOR PLAN  
MECHANICAL RENOVATION

SCALE	PROJECT NO.	SHEET NO.
AS SHOWN	2004-180-6	M2R1