

DRAWING INDEX
GENERAL
G-002 - DRAWING INDEX / LEGENDS/ GENERAL NOTES
DEMOLITION
D-001 - ARCHITECTURAL DEMOLITION PLAN D-002 - MEP DEMOLITION PLAN
ARCHITECTURAL
A-101 - FLOOR PLAN A-201 - REFLECTED CEILING PLAN A-501 - FINISH PLAN / SCHEDULES / DOOR, WINDOW AND WALL TYPES A-601 - CASEWORK TABLES / CABINETRY DETAILS A-602 - WALL DETAILS A-603 - CASEWORK DETAILS A-604 - CASEWORK DETAILS A-901 - INTERIOR ELEVATIONS A-902 - INTERIOR ELEVATIONS A-903 - INTERIOR ELEVATIONS
MECHANICAL AND PLUMBING
M-101 - HVAC PLAN M-201 - HYDRONICS PLAN M-301 - CONTROLS PLAN & SCHEMATICS M-501 - MECHANICAL AND PLUMBING DETAILS AND SCHEDULES P-101 - PLUMBING PLAN AND SCHEDULES
ELECTRICAL
E-101 - POWER PLAN E-102 - PANEL SCHEDULE E-201 - LOW VOLTAGE PLAN E-301 - LIGHTING PLAN E-401 - FIRE ALARM PLAN E-501 - ELECTRICAL DETAILS

SYMBOL	DESCRIPTION
	WALL TYPE
	EQUIPMENT / FURNITURE AND FIXTURES TAG
	WINDOW TAG
	INTERIOR ELEVATION INDICATOR
	DOOR TAG
	DETAIL / PLAN ENLARGEMENT REFERENCE
	DETAIL / SECTION REFERENCE
	EXISTING TO BE DEMOLISHED
	EXISTING TO REMAIN
	NEW CONSTRUCTION
	NORTH INDICATOR
	TRUE NORTH

SYMBOL	DESCRIPTION
	COMPRESSED AIR
	CHILLED WATER SUPPLY
	CHILLED WATER RETURN
	HEATING WATER SUPPLY
	HEATING WATER RETURN
	CONDENSATE DRAIN
	LOW PRESSURE STEAM
	LOW PRESSURE CONDENSATE
	LABORATORY COLD WATER
	LABORATORY HOT WATER
	LAB HOT WATER CIRCULATION
	LABORATORY WASTE
	LABORATORY VENT
	NATURAL GAS
	VACUUM PIPING
	REVERSE OSMOSIS (RO) WATER
	DEIONIZED (DI) WATER
	VALVE, SEE SPECIFICATIONS FOR VALVE TYPE
	CHECK VALVE
	TWO WAY CONTROL VALVE
	THREE WAY CONTROL VALVE
	BALANCING VALVE
	SOLENOID CONTROL VALVE
	PRESSURE REDUCING VALVE
	STRAINER WITH VALVE AND HOSE CONNECTION
	STRAINER
	STEAM TRAP
	FLEXIBLE CONNECTION
	TEST PLUG
	PRESSURE GAUGE
	PRESSURE RELIEF VENT
	PIPE BREAK
	PIPE SLOPE
	DIRECTION OF FLOW
	PIPE UP
	PIPE DOWN
	PIPE T DOWN
	PIPE T UP
	PIPE CAP
	UNION
	REDUCER
	PIPE ANCHOR
	PIPE GUIDE
	THERMOMETER OR SIGHT GLASS
	FLOW METER

SYMBOL	DESCRIPTION
	INSIDE DUCT SIZE (FIRST FIGURE IS SIDE SHOWN)
	MOTORIZED DAMPER
	BACKDRAFT OR BAROMETRIC DAMPER
	SUPPLY AIR - DUCT DOWN
	RETURN AIR - DUCT DOWN
	EXHAUST AIR - DUCT DOWN
	SUPPLY AIR - DUCT UP
	RETURN AIR - DUCT UP
	EXHAUST AIR - DUCT UP
	FLEXIBLE DUCT CONNECTION
	DIRECTION OF FLOW
	MITERED ELBOW WITH TURNING VANES
	LONG RADIUS ELBOW
	RECTANGULAR MAIN DUCT WITH RECTANGULAR BRANCH, BOOT FITTING
	MANUAL VOLUME DAMPER
	ROUND MAIN DUCT WITH ROUND BRANCH, CONICAL FITTING
	RECTANGULAR MAIN DUCT WITH ROUND BRANCH, CONICAL FITTING
	MANUAL VOLUME DAMPER
	ROUND MAIN DUCT WITH ROUND BRANCH, STRAIGHT FITTING
	REHEAT COIL

SYMBOL	DESCRIPTION
	HEAT DETECTOR (COMBINATION FIXED RATE AND RATE OF RISE - 57°F) - CR 135

SYMBOL	DESCRIPTION
	EQUIPMENT DESIGNATION
	KEYNOTE
	CONNECT NEW TO EXISTING AT THIS POINT
	DEMOLISH TO THIS POINT

SYMBOL	DESCRIPTION
	CEILING SUPPLY AIR DIFFUSER ARROW INDICATES DIRECTION OF THROW
	CEILING EXHAUST AIR GRILLE
DIFFUSER DESIGNATION	
	TYPE, REFER TO DIFFUSER, REGISTER AND GRILLE OR HEPA FILTER SCHEDULE AIR QUANTITY (L/s)
DESIGNATE OUTSIDE AIR SUPPLY DUCT ON FLOOR PLANS (ALL DUCTWORK SIZES ARE IN MILLIMETERS (INCHES) UNLESS NOTED OTHERWISE)	
	DUCT SIZE OUTSIDE AIR

SYMBOL	DESCRIPTION
	1x4 LED LIGHT FIXTURE, RECESSED CEILING MOUNTED
	2x2 LED LIGHT FIXTURE, RECESSED CEILING MOUNTED
	LINE VOLTAGE TOGGLE SWITCH
	LINE VOLTAGE THREE-WAY TOGGLE SWITCH
	LINE VOLTAGE FOUR-WAY TOGGLE SWITCH
	DUAL CHANNEL RACEWAY
	NEMA 5-20R RECEPTACLE
	NEMA 5-20R RECEPTACLE WITH USB PORT
	JUNCTION BOX
	RECESSED ELECTRICAL PANEL
	SINGLE PHONE OUTLET
	DUAL DATA OUTLET
	SINGLE ALARM MONITORING BOX
	PENETRATION POINT TO THE RACEWAY INSIDE NEW WALL CAVITY (VERTICAL DROP FROM THE CEILING)

- GENERAL NOTES**
- A. ALL SHUTDOWNS OR DISRUPTIONS OF ANY SYSTEM OR SPACE ARE TO BE COORDINATED WITH THE DEPARTMENT REPRESENTATIVE IN ORDER TO MINIMIZE DISRUPTIONS TO OPERATING LABORATORIES.
- GENERAL NOTES - ARCHITECTURAL**
- DEMOLITION AND RENOVATION
CONTRACTOR TO MAKE GOOD ALL WALLS, FLOOR AND CEILING AFTER DEMOLITION IS COMPLETE. ALL SURFACES AND SERVICES SHALL BE MADE SUITABLE FOR SUBSEQUENT WORK AS DETAILED WITHIN THIS DRAWING PACKAGE AND FOR CODE COMPLIANCE.
- B. CONTRACTOR TO FIELD VERIFY DIMENSIONS AND LOCATION OF ALL EXISTING MECHANICAL, PLUMBING, ELECTRICAL AND MISCELLANEOUS FIXTURES TO BE DEMOLISHED OR RELOCATED BEFORE RENOVATION OR CONSTRUCTION WORK BEGINS.
- C. CONTRACTOR TO PROTECT EXISTING WALLS, DOORS AND WINDOWS ADJACENT TO LABORATORIES LABS 2048 & 2050. SEAL DOOR AND WINDOWS AGAINST DUST AND OTHER PARTICLES BEFORE RENOVATION WORK BEGINS.
- D. DIMENSIONS ARE TO FACE OF FINISHED MATERIALS, UNLESS OTHERWISE NOTED.
- E. CONTRACTOR TO DEMOLISH DEMISING WALL BETWEEN LABORATORIES 2048 AND 2050 UP TO EXISTING FIRE RATED STRUCTURE. AFTER DEMOLITION WORK IS COMPLETE, DEPARTMENTAL REPRESENTATIVE TO VERIFY CONDITIONS OF FIRE SEPARATION. IF DEEMED NECESSARY, CONTRACTOR WILL BE REQUIRED TO PROVIDE A MINIMUM 2 HOUR, ULC-DESIGN, FIRE RATED ASSEMBLY TO PROTECT ANY EXPOSED STRUCTURAL ELEMENTS. IN ADDITION, CONTRACTOR TO REPAIR THE SURROUNDING AREAS AS REQUIRED TO ENSURE A CODE COMPLIANT FIRE SEPARATION.

- GENERAL NOTES - MECHANICAL**
- A. DEMOLITION AND RENOVATION
CONTRACTOR TO FIELD VERIFY DIMENSIONS AND LOCATION OF ALL EXISTING MECHANICAL, PLUMBING, ELECTRICAL

- GENERAL NOTES - ELECTRICAL**
- A. CUTTING AND PATCHING
GENERAL CONTRACTOR TO COORDINATE ALL CUTTING/CORE DRILLING AND PATCHING REQUIRED FOR THE ELECTRICAL INSTALLATIONS. BEFORE CARRYING OUT ANY CUTTING, OBTAIN WRITTEN APPROVAL FROM THE DEPARTMENTAL REPRESENTATIVE.
- B. FIREPROOF PATCHING
WHERE CONDUITS OR SINGLE CONDUCTOR CABLES PASS THROUGH FIRE RATED FLOOR SLABS, FIRE RATED CEILINGS OR FIRE RATED WALLS, SEAL OPENING AROUND WITH SAME TO MAINTAIN FIRE SEPARATION USING APPROVED ULC RATED FIRE PATCHING MATERIAL.
- C. DEPARTMENTAL REPRESENTATIVE SUPPLIED EQUIPMENT
MAKE FINAL CONNECTIONS TO DEPARTMENTAL REPRESENTATIVE SUPPLIED EQUIPMENT. CONFIRM ELECTRICAL REQUIREMENTS SUCH AS PLUG ARRANGEMENT AND OR HARD WIRE CONNECTIONS PRIOR TO PULLING OF WIRES, CONDUIT ROUGH-IN AND ORDERING MATERIALS SUCH AS BREAKERS IN PANELS, DISCONNECT SWITCHES, ETC.

ISSUE	DESCRIPTION	DATE
0	ISSUE FOR CONSTRUCTION	05/18/2018