

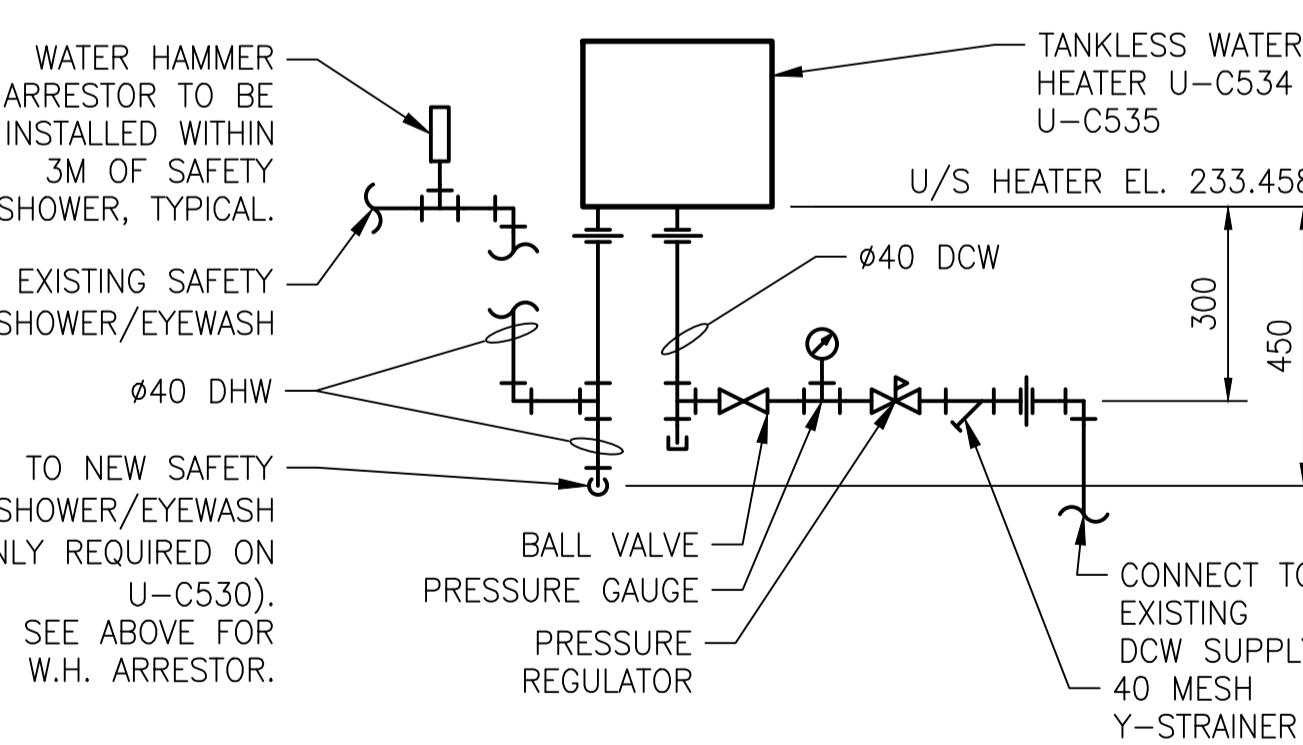
PARTIAL MAIN PLAN - NEW WORK

SCALE: 1:100

- EXISTING FLOOR DRAIN TO REMAIN. PIPES TO BE FLUSHED AND CLEARED OF DIRT AND DEBRIS. REFER TO TYPICAL TRAP PRIMER INSTALLATION FOR EXISTING FLOOR DRAINS.
- EXISTING DCW TIE POINT. NEW PIPING TO BE CONNECTED AT THIS LOCATION.
- EXISTING SAFETY SHOWER/EYEWASH TO REMAIN. NEW $\varnothing 40$ DHW PIPING TO BE CONNECTED TO EYEWASH/SAFETY SHOWER.
- NEW EYE WASH/SAFETY SHOWER COMBINATION UNIT TO BE SUPPLIED AND INSTALLED. CONNECT NEW $\varnothing 40$ DHW TO SHOWER.
- NEW SURFACE MOUNTED FORCED FLOW HEATER TO BE INSTALLED. COORDINATE WITH ELECTRICAL.

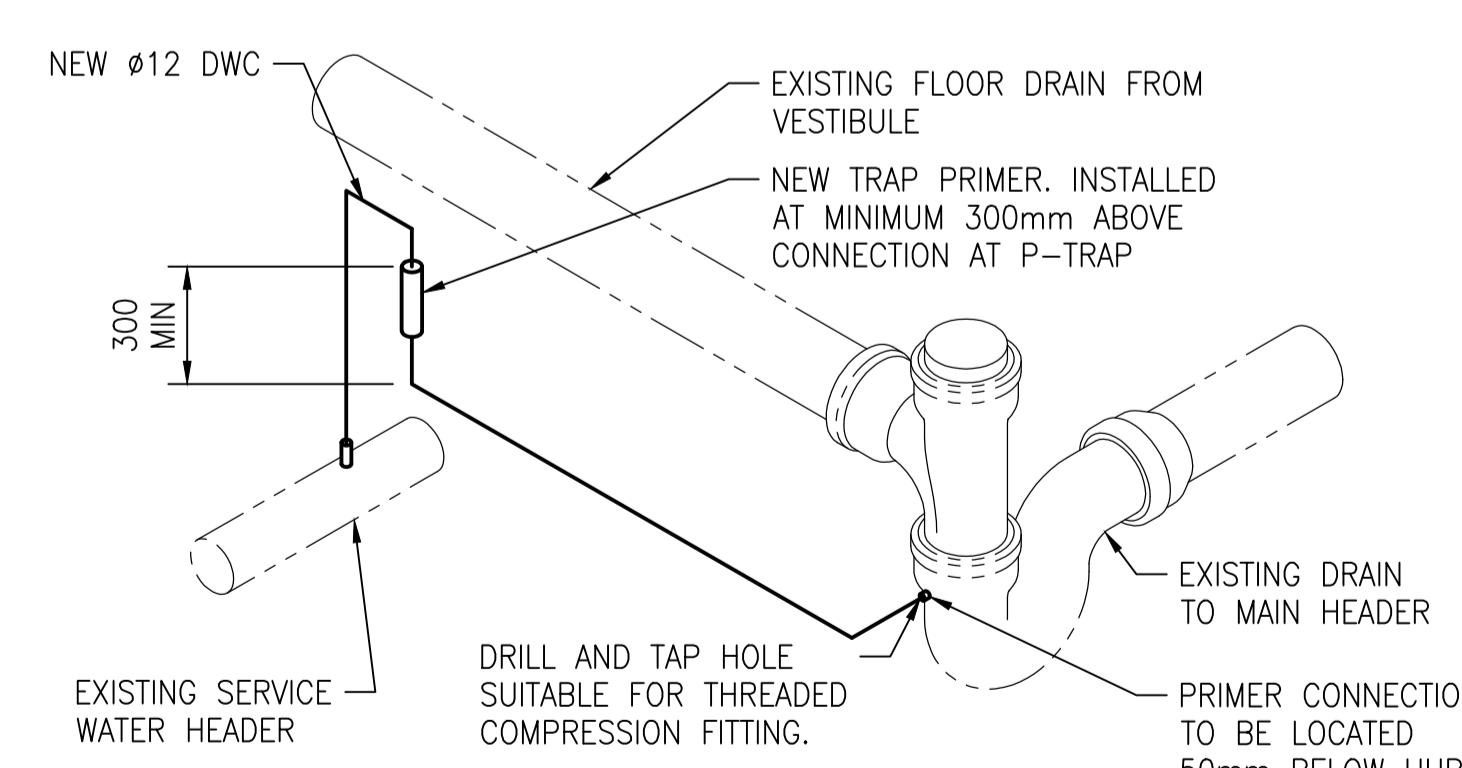
- SUPPLY AND INSTALL NEW INSTANTANEOUS WATER HEATER. REFER TO DETAIL FOR TYPICAL PIPING.
- NEW $\varnothing 40$ DHW PIPED TO NEW SAFETY SHOWER/EYEWASH.
- NEW $\varnothing 40$ DCW PIPED TO NEW TANKLESS WATER HEATER.
- NEW $\varnothing 40$ FROM BELOW. CONNECT TO EXISTING $\varnothing 80$ SERVICE WATER HEADER IN GENERATOR ROOM.
- INSTALL SCRUBBER, SCBR-C670, ON NEW CONCRETE PAD. COORDINATE WITH STRUCTURAL AND ELECTRICAL.
- NEW INSULATED $\varnothing 500$ FRP DUCT.
- REUSE EXISTING DUCT AND EXHAUST GRILLE. BALANCE AIR VOLUME AS NOTED.

- REFER TO DETAIL 2/M0032 FOR ROOF CURB CLOSURE.
- REFER TO DETAIL 3/M0033 FOR NEW FAN AND EXHAUST DUCT INSTALLATION.
- COORDINATE WITH STRUCTURAL FOR DUCT PENETRATION THROUGH EXISTING CONCRETE BLOCK WALL.
- SUPPLY AND INSTALL 450x200 EXHAUST DUCT. DUCT TO BE INSTALLED DOWN TO LOW LEVEL. SUPPLY EXHAUST GRILL E1 AND BALANCE AS NOTED.
- DUCT PENETRATIONS AT FLOOR LEVEL TO BE FIRE STOPPED AND MADE AIR TIGHT. REFER TO DETAIL 1/M0031.
- SUPPLY VOLUME NOTED IS FOR EMERGENCY OPERATION. OCCUPIED OPERATION VOLUME TO BE 198 L/S AND EMERGENCY OPERATION 0 L/S.



TANKLESS WATER HEATER - PIPING DETAIL

SCALE: NTS



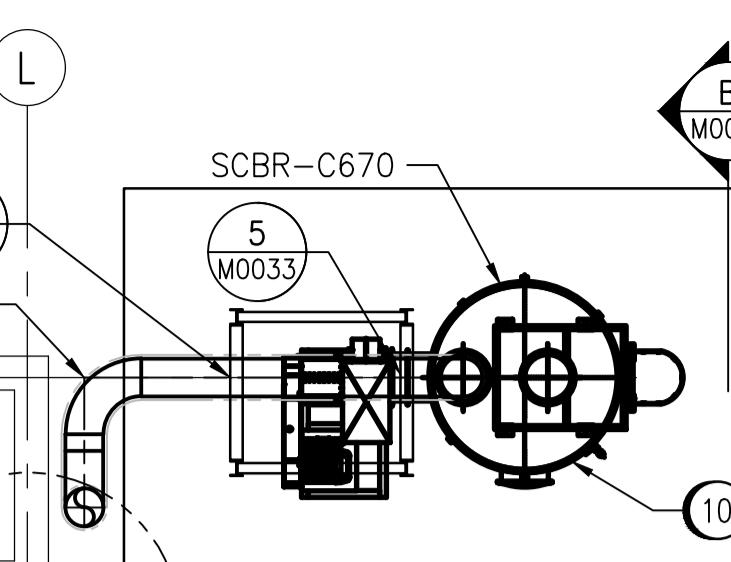
TYPICAL TRAP PRIMER INSTALLATION

SCALE: NTS

DESIGN CRITERIA:

THE BUILDING ENVIRONMENTAL HEATING SYSTEMS SHOWN ON THESE DRAWINGS HAS BEEN DESIGNED TO THE REQUIREMENTS OF THE MANITOBA BUILDING CODE AND VENTILATED AT A MINIMUM OF 5.5 AIR CHANGES PER HOUR (ACH) WHILE OCCUPIED. MORE SPECIFICALLY AS FOLLOWS:

- OUTDOOR CONDITIONS OF -33°C IN WINTER.
- INDOOR CONDITIONS OF 21°C IN WINTER.



GENERAL NOTES

- DRAWING INFORMATION BASED ON HISTORICAL DRAWING AND SITE INVESTIGATIONS.
- INSULATION ON ALL EXISTING DOMESTIC WATER, FRESH AIR INTAKE, RAIN WATER LEADER, CONDENSATE AND DRAIN PIPE FITTINGS MAY CONTAIN ASBESTOS MATERIALS.
- MASONRY BLOCK WALLS, CEILING OR WALL HARD PLASTERS AND CERAMIC FLOOR TILES MAY CONTAIN ASBESTOS.
- FLOW SWITCHES SUPPLIED AND INSTALL BY ELECTRICAL CONTRACTOR.
- BALANCE SUPPLY AND EXHAUST DAMPERS TO VOLUMES NOTED.

KEY PLAN

SCALE: 1:500

LEGEND

EXISTING EQUIPMENT
EXISTING DUCTWORK
NEW EQUIPMENT
NEW DUCTWORK
INSULATED DUCTWORK
EXISTING DRAINAGE PIPING
NEW PIPING
NEW ELECTRICAL HEATER
MOTORIZED DAMPER
BACK DRAFT DAMPER
FIRE DAMPER
FLOW SWITCH
DIFFUSER/GRILLE
TYPE
SIZE
1/s
VOLUME

METRIC

WHOLE NUMBERS INDICATE MILLIMETRES

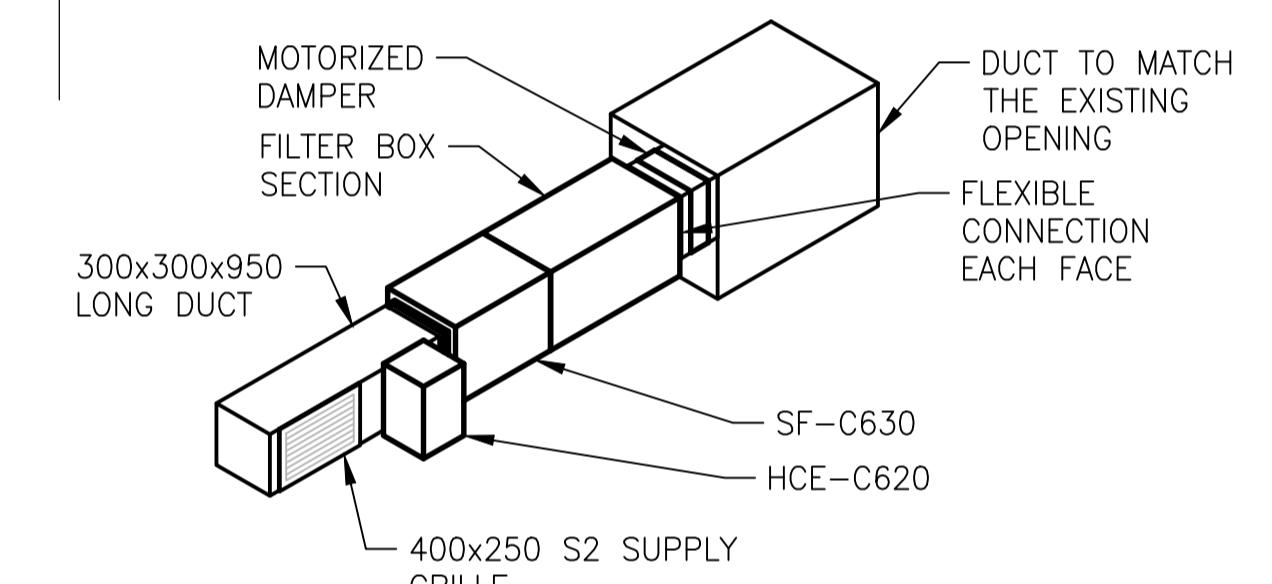
DECIMALIZED NUMBERS INDICATE METRES

0.0 1.0 2.0 4.0 6.0

1 100

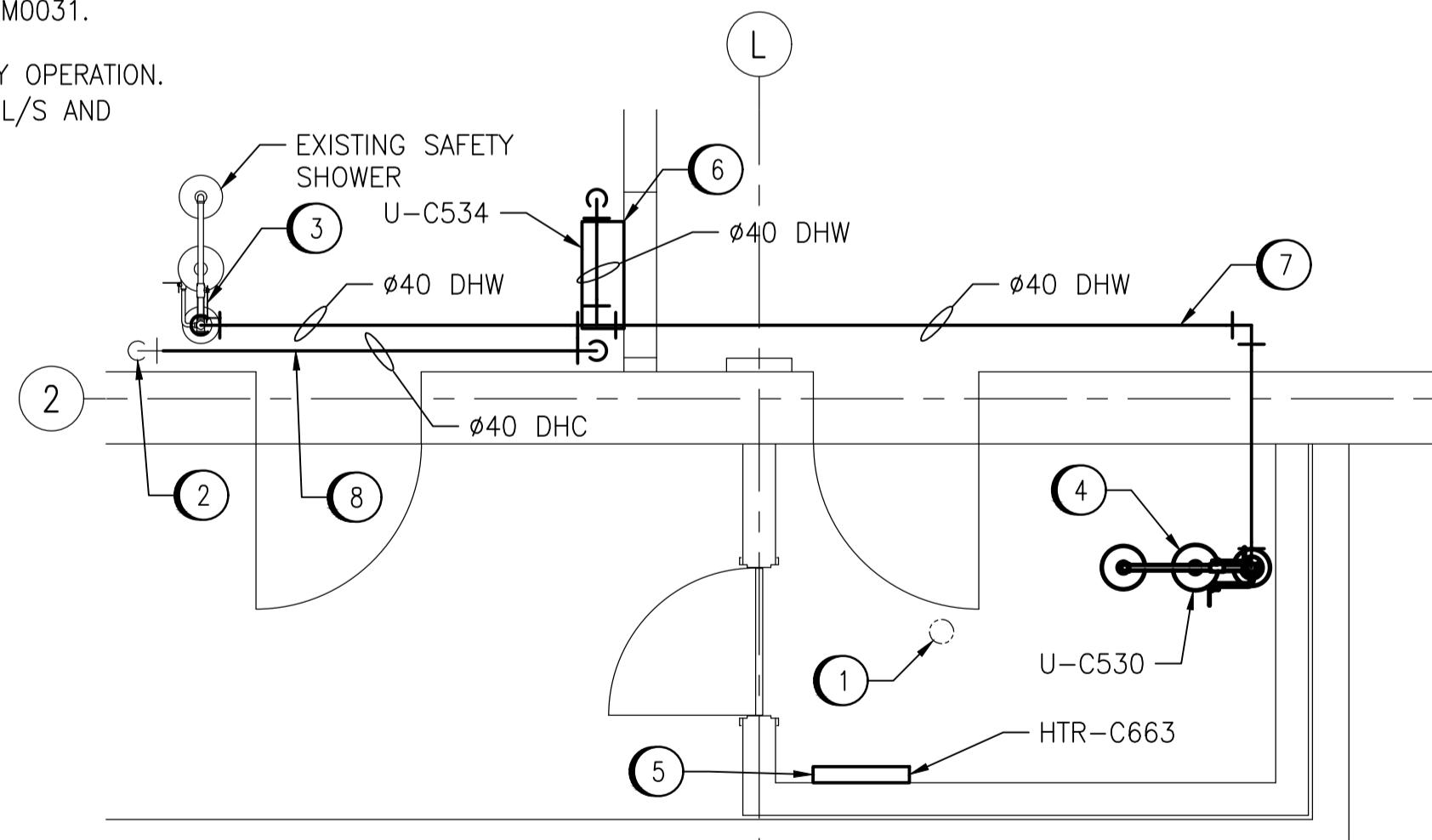
1 : 40

1 2m



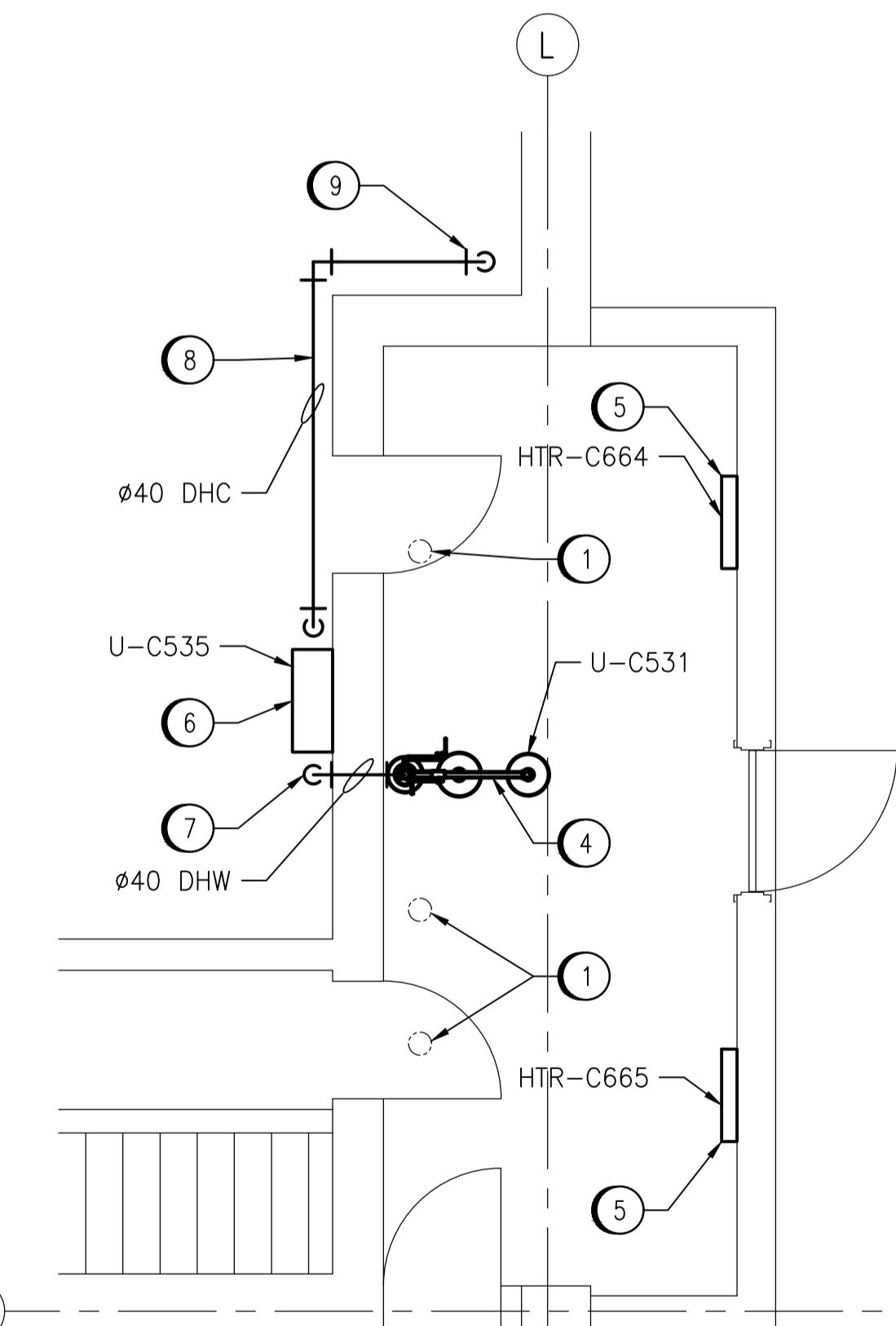
EQUIPMENT ROOM SUPPLY FAN

SCALE: NTS



VESTIBULE PARTIAL FLOOR PLAN - NEW WORK

SCALE: 1:40



VESTIBULE PARTIAL FLOOR PLAN - NEW WORK

SCALE: 1:40

AtkinsRéalis		148 Nature Park Way, Winnipeg, Manitoba Canada R3P 0X7	204-786-8080	ENGINEER'S SEAL
DESIGNED BY:	T. SHAW	CHECKED BY:	S. NORSWORTHY	
DRAWN BY:	M. GAUDINO	APPROVED BY:	S. NORSWORTHY	
SCALE:	AS NOTED	ISSUED FOR CONSTRUCTION	BY: M. SKINNER	
DATE:	2023-03-06	DATE:	2023/04/30	
00 ISSUED FOR TENDER AND CONSTRUCTION	2025/04/30	CONSULTANT NO.:	694715-2000-45DD-1002	
NO. REVISIONS	DATE DESIGN CHECK			

THE CITY OF WINNIPEG
Winnipeg
WATER AND WASTE DEPARTMENT

MACLEAN PUMPING STATION
CHLORINE SYSTEM UPGRADE
MECHANICAL
NEW WORK
MEZZANINE, MAIN FLOOR PLANS AND DETAILS

CITY DRAWING NUMBER
1-0630M-M0030

SHEET
001

REV.
00

SIZE
A1