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Client client

**PUBLIC WORKS &
GOVERNMENT SERVICES**

100-167 LOMARD AVENUE
WINNIPEG, MB. R3B 0T6

Project
**CORRECTIONAL SERVICE CANADA
STONY MOUNTAIN INSTITUTION
STONY MOUNTAIN, MB
NAB STORM DRAINAGE**

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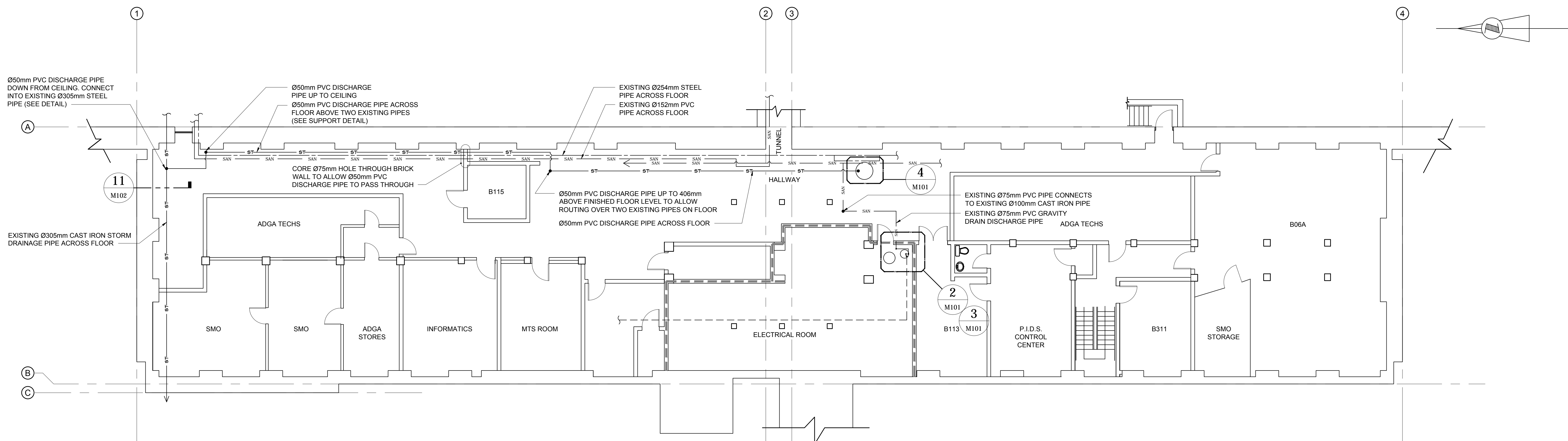
Drawing Title
**BASEMENT PLAN -
MECHANICAL PIPING
PLAN**

Project no./No. du projet
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M101

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3

1 OF 2



1 BASEMENT PLAN

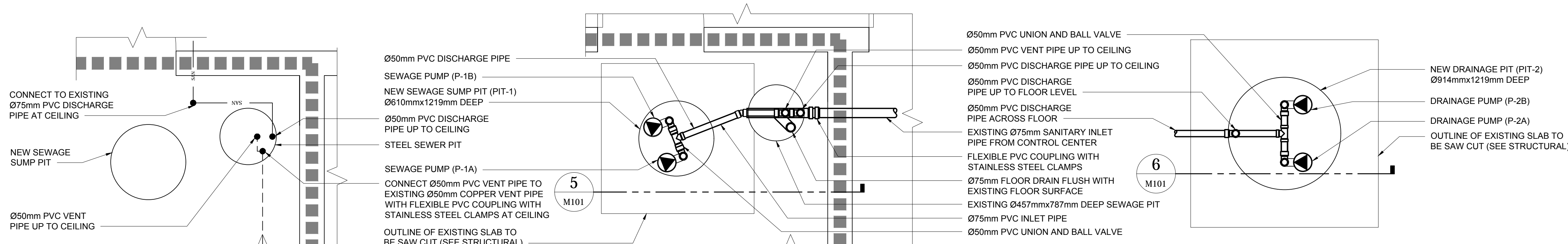
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LINE TYPES LEGEND

| ITEM | SYMBOL | REMARKS |
|-----------------------------|--------|------------------|
| SANITARY SEWER DRAIN PIPING | SAN | |
| SANITARY SEWER VENT PIPING | | |
| STORM DRAIN PIPING | ST | |
| FIRE RATED WALLS | | 1 HOUR, EXISTING |

PIPING SCHEMATIC LEGEND

| ITEM | SYMBOL | REMARKS |
|------------------------|--------|---------|
| EQUIPMENT - PUMP (P-#) | | |



**2 SEWER PUMP/PIT
PIPING CONNECTIONS PLAN**

M101 SCALE: 1:20

3 SEWER PUMP/PIT PLAN

M101 SCALE: 1:20

4 NEW DRAINAGE PUMP/PIT DETAIL

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SEWER PUMP/PIT CONSTRUCTION NOTES:

PERFORM WORK IN TWO STAGES TO MINIMIZE DOWNTIME OF CONTROL CENTER WASHROOM:

STAGE 1

KEEP EXISTING SEWAGE PUMP IN SERVICE DURING THIS STAGE

1. INSTALL NEW PIT IN HOLE, DO NOT BACKFILL (SEE STRUCTURAL).
2. CORE HOLES FOR DISCHARGE, VENT, AND INLET PIPES THROUGH SIDEWALL OF EXISTING PIT. COORDINATE HOLE LOCATIONS WITH NEW PIT ASSEMBLY AND ENSURE HOLES ARE ABOVE HIGH LIQUID LEVEL IN EXISTING PIT.
3. INSTALL SEWAGE PUMPS IN NEW PIT.
4. INSTALL DISCHARGE PIPING FROM NEW SEWAGE PUMPS THROUGH WALL OF NEW PIT (ACCORDING TO MANUFACTURER'S INSTRUCTIONS) AND INTO EXISTING PIT THROUGH CORED HOLE.
5. CONNECT VENT AND INLET PIPES TO NEW PIT AND INSTALL THROUGH WALL OF EXISTING PIT. ROUTE VENT AND DISCHARGE PIPES UP TO CEILING THROUGH OPEN TOP OF EXISTING PIT. LOCATE PIPED TO ALLOW REMOVAL OF EXISTING SEWAGE PUMP.

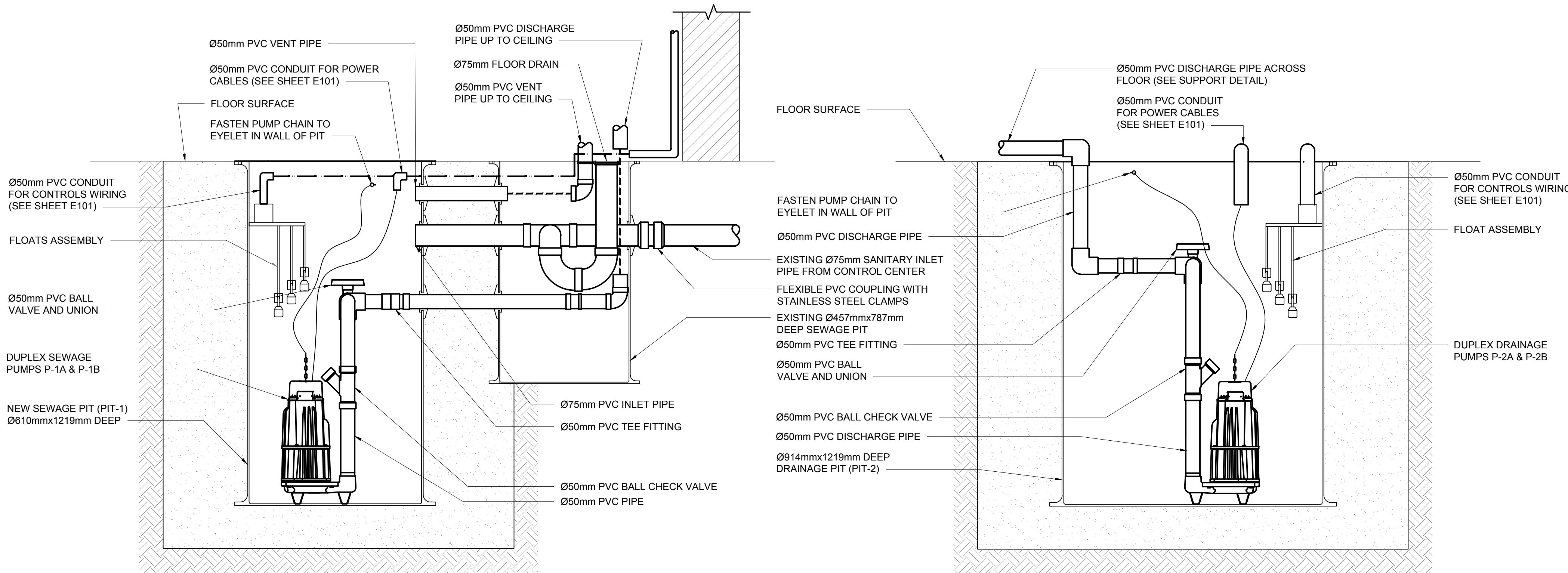
STAGE 2

REMOVE EXISTING SEWAGE PUMP FROM SERVICE ONLY WHEN NEW PUMPS ARE INSTALLED. ELECTRICAL AND CONTROLS SHOULD BE COMPLETE PRIOR TO REMOVAL OF EXISTING PUMP

1. REMOVE AND DISPOSE OF EXISTING SEWAGE PUMP, EXISTING VENT, AND DISCHARGE PIPES AS SHOWN.
2. CONNECT EXISTING 75mm INLET TO NEW 75mm INLET PIPE. USE PVC COUPLING INSIDE EXISTING PIT AND FLEXIBLE PVC COUPLING WITH STAINLESS STEEL CLAMPS UPSTREAM OF EXISTING PIT. CUT AND REMOVE SECTION OF EXISTING PIT WALL AND REMOVE FILL TO GAIN ACCESS TO PIPE UPSTREAM OF PIT.
3. INSTALL 75mm FLOOR DRAIN INLINE INLET PIPING IN EXISTING PIT. INSTALL TOP OF FLOOR DRAIN FLUSH WITH EXISTING FLOOR SURFACE. SECURE EXISTING CONDENSATE LINES FROM AIR HANDLER AND AIR CONDITIONER UNITS TO INDIRECTLY DRAIN INTO FLOOR DRAIN.
4. CONNECT NEW VENT AND DISCHARGE PIPES INTO EXISTING SYSTEMS AT CEILING HEIGHT.
5. COMMISSION NEW PUMPS PRIOR TO BACKFILLING. SEE STRUCTURAL FOR DETAILS.

DRAINAGE PUMP/PIT CONSTRUCTION NOTES:

1. INSTALL PIT IN HOLE (SEE STRUCTURAL).
2. INSTALL DRAINAGE PUMPS IN PIT AS SHOWN. INSTALL ACCORDING TO MANUFACTURER'S INSTRUCTIONS.
3. INSTALL DISCHARGE PIPING FROM PUMPS UP THROUGH STEEL GRATE COVER AND ACROSS FLOOR AS SHOWN.
4. ROUTE DISCHARGE PIPING THROUGH HALLWAY AS SHOWN AND CONNECT TO EXISTING 305mm CAST IRON STORM DRAIN PIPE. CONNECT 75mm PVC PIPE TO 305mm STEEL PIPE USING STEEL TAPING SADDLE (SEE DETAIL).



5 SEWER PUMP/PIT SECTION

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6 DRAINAGE PUMP/PIT SECTION

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