

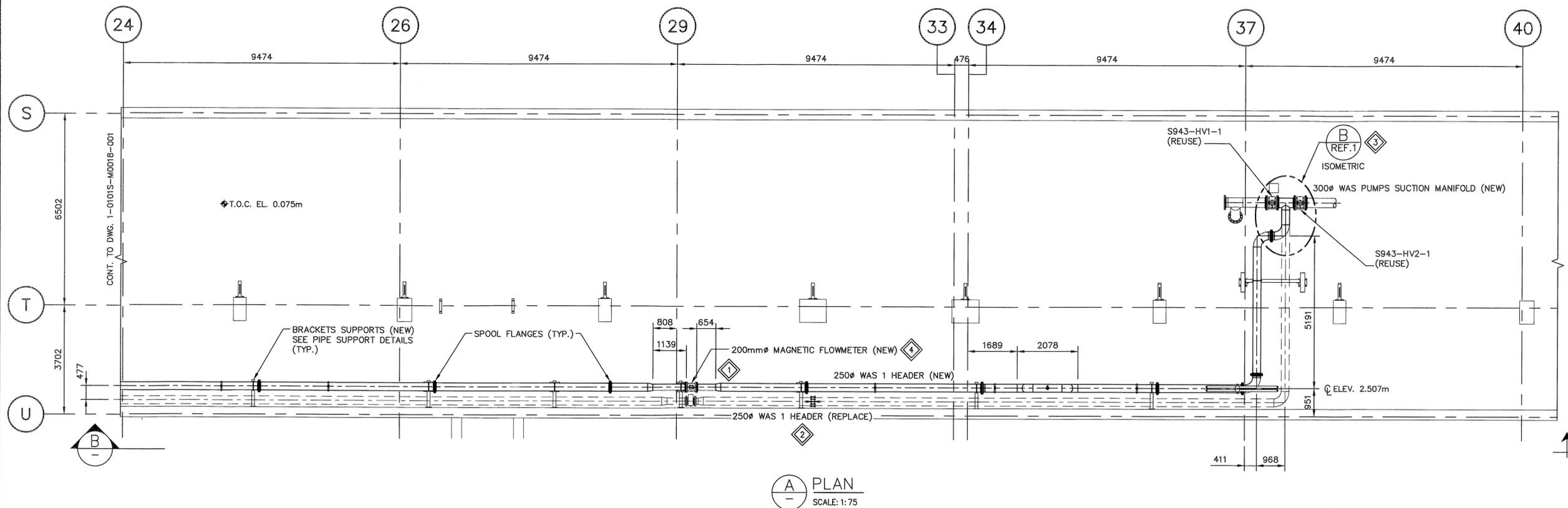


KEYNOTES:

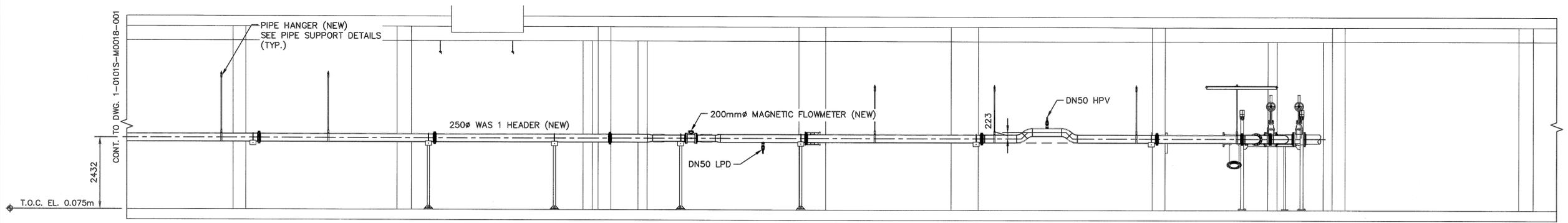
1. INSTALL NEW 250mm $\phi$  WAS HEADER PIPING ALONG SIDE EXISTING IN SERVICE WAS PIPE. PRE-FABRICATE FLANGED SPOOLS FOR BOLT-UP INSTALLATION ON SITE WITHOUT FIELD WELDING. PRE-FABRICATED SPOOLS SHALL BE COATED AND LINED OFF-SITE.
2. EXISTING WAS 1 HEADER TO BE REPLACED FROM S943-HV-1 (REUSE) TO S943-HV1-1/S943-HV2-1 (REUSE). EXISTING WAS HEADER TO REMAIN IN SERVICE DURING INSTALLATION OF NEW HEADER. DEMO EXISTING WAS UPON COMPLETION OF NEW HEADER TIE-INS.
3. TIE-IN OF NEW HEADER AT CONNECTION TO WAS PUMP SUCTION MANIFOLD TO BE PERFORMED DURING PROCESS SHUT DOWN WINDOW.
4. INSTALL NEW 200mm $\phi$  MAGNETIC FLOWMETER. SEE ELECTRICAL DRAWINGS FOR FURTHER DETAILS.

GENERAL NOTES:

1. DRAWINGS DO NOT SHOW ALL STRUCTURES, EQUIPMENT, PIPING AND CABLING IN RAS GALLERY, REFER TO 3D MODEL FOR ADDITIONAL INFORMATION. DRAWINGS AND 3D MODEL ARE APPROXIMATE, CONTRACTOR SHALL FIELD CONFIRM ALL SITE CONDITIONS PRIOR TO WORK.
2. DIMENSIONS SHOWN ARE APPROXIMATE. CONTRACTOR SHALL FIELD CONFIRM ALL DIMENSIONS AND DETAILS PRIOR TO PIPING FABRICATION OR OTHER WORK.
3. REFER TO 3D MODEL AND REFERENCE LISTS FOR IDENTIFICATION TAGS AND ADDITIONAL DETAILS ON THE FOLLOWING:
  - LEAK LOCATIONS (REF. LIST DOCUMENT LST-M-001).
  - PIPE SUPPORTS (REF. LIST DOCUMENT LST-M-002).
  - CLOSE PROXIMITY ITEMS TO RAS PIPING (REF. LIST DOCUMENT LST-M-003).
  - PIPE WRAP TERMINATION SLEEVES (REF. LIST DOCUMENT LST-M-004).
4. SYSTEM TO REMAIN IN OPERATION (LIVE) DURING COMPOSITE WRAP OF PIPING.
5. ALL VALVES REMAIN IN-PLACE UNLESS OTHERWISE INDICATED WITH (NEW).

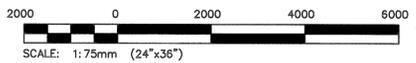


A PLAN SCALE: 1:75



B ELEVATION SCALE: 1:75

13	
12	
11	
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1	1-0101S-M0025-001 WAS HEADER 1 - TIE-IN DETAILS
NO.	DRAWING NUMBER REFERENCE DRAWING TITLE
REFERENCE DRAWINGS	



B.M. ELEV.	
CONSTRUCTION COMPLETION DATE: YYYY MM DD	
DESIGNED BY	C. HOLBROOK
CHECKED BY	J. SMITH
DRAWN BY	J. SESE
APPROVED BY	<i>J.S.</i>
SCALE:	AS SHOWN
RELEASED FOR CONSTRUCTION	
0 ISSUED FOR TENDER	2021 09 16
NO.	REVISIONS DATE BY
0	ISSUED FOR TENDER 2021 09 16
DATE	2021 08 25
DATE	
PLOT DATE: 2021 09 16	

**KGS GROUP**

DESIGNED BY: C. HOLBROOK  
CHECKED BY: J. SMITH  
DRAWN BY: J. SESE  
APPROVED BY: *J.S.*  
SCALE: AS SHOWN  
RELEASED FOR CONSTRUCTION

ENGINEER'S SEAL

CONSULTANT DRAWING NUMBER  
21-0107-001\_M1.22

**THE CITY OF WINNIPEG**  
WATER AND WASTE DEPARTMENT  
ENGINEERING DIVISION

**Winnipeg**

NORTH END SEWAGE TREATMENT PLANT (NEWPCC)  
RETURN ACTIVATED SLUDGE (RAS)  
PIPING REFURBISHMENT

WAS HEADER 1  
PARTIAL PLAN AND ELEVATION

CITY DRAWING NUMBER: 1-0101S-M0018-002

SHEET 2 OF 2