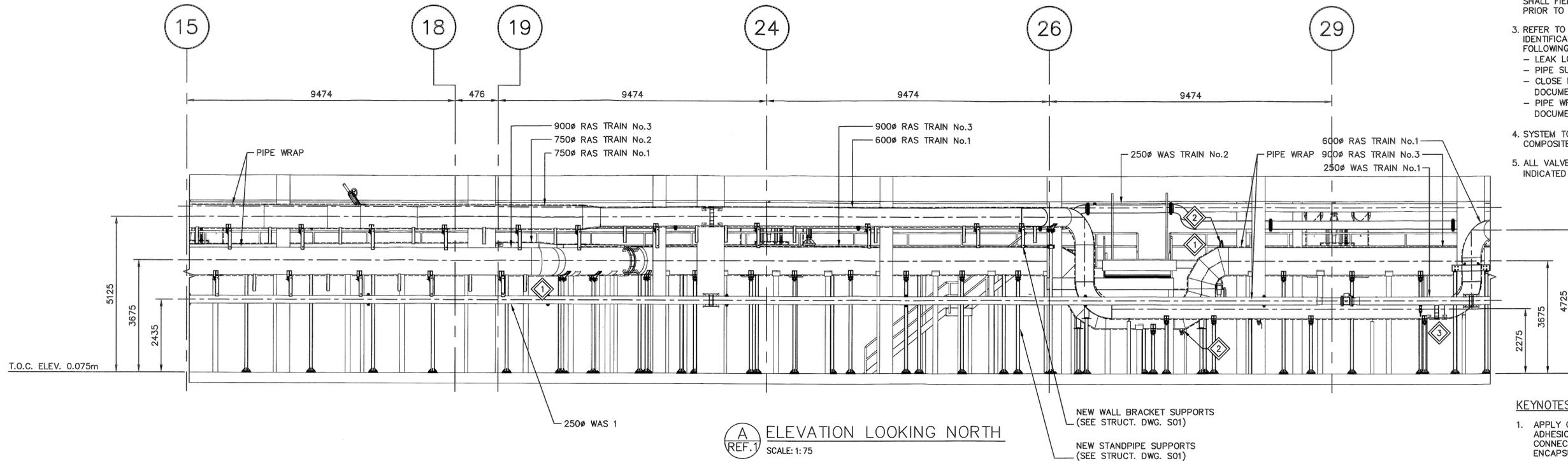


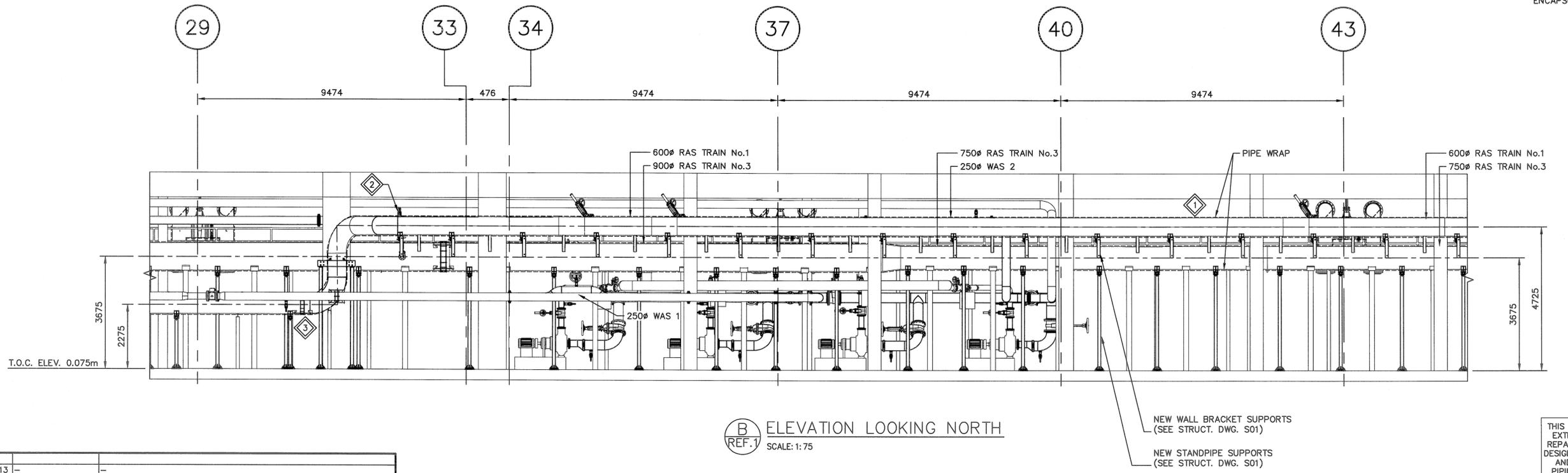
GENERAL NOTES:

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).



KEYNOTES:

1. APPLY COMPOSITE WRAP TO PIPE EXTERIOR. PROVIDE ADHESION ZONE ON WELDED COLLAR AT FLANGED CONNECTIONS. ALL OTHER FLANGES TO BE ENCAPSULATED.
2. EXISTING HPV AND LPD TO BE FULLY ENCAPSULATED. INSTALL NEW HPV AND LPD, PROVIDE ADHESION ZONE ON BRANCH PIPE.
3. EXISTING DRESSER-TYPE COUPLING TO BE FULLY ENCAPSULATED.



THIS CONTRACT DRAWING IS INTENDED TO DEFINE THE EXTENTS OF WORK FOR THE COMPOSITE PIPE WRAP REPAIR, AND REPLACEMENT OF SPECIFIED PIPING. THE DESIGN OF THE COMPOSITE PIPE WRAP REPAIR SYSTEM, AND THE INTEGRITY OF THE NEWLY REPAIRED RAS PIPING IS THE RESPONSIBILITY OF THE CFRP DESIGN ENGINEER AS DEFINED IN THE TENDER DOCUMENTS.

13		
12		
11		
10		
9		
8		
7		
6		
5		
4		
3		
2		
1	1-0101S-M0001-001	RAS PIPE GALLERY - GENERAL ARRANGEMENT
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	[Signature]
SCALE:	AS SHOWN
RELEASED FOR CONSTRUCTION	
ISSUED FOR TENDER	2021 09 16
NO.	REVISIONS
DATE	BY
DATE	2021 07 08
DATE	

KGS GROUP

DESIGNED BY: C. HOLBROOK
 CHECKED BY: J. SMITH
 DRAWN BY: J. SESE
 APPROVED BY: [Signature]
 SCALE: AS SHOWN
 RELEASED FOR CONSTRUCTION

ENGINEER'S SEAL

CONSULTANT DRAWING NUMBER
21-0107-001_M2.2

THE CITY OF WINNIPEG
 WATER AND WASTE DEPARTMENT
 ENGINEERING DIVISION

Winnipeg

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

RAS PIPE GALLERY
 GENERAL ARRANGEMENT ELEVATION

CITY DRAWING NUMBER: 1-0101S-M0003-002

SHEET 2 of 3