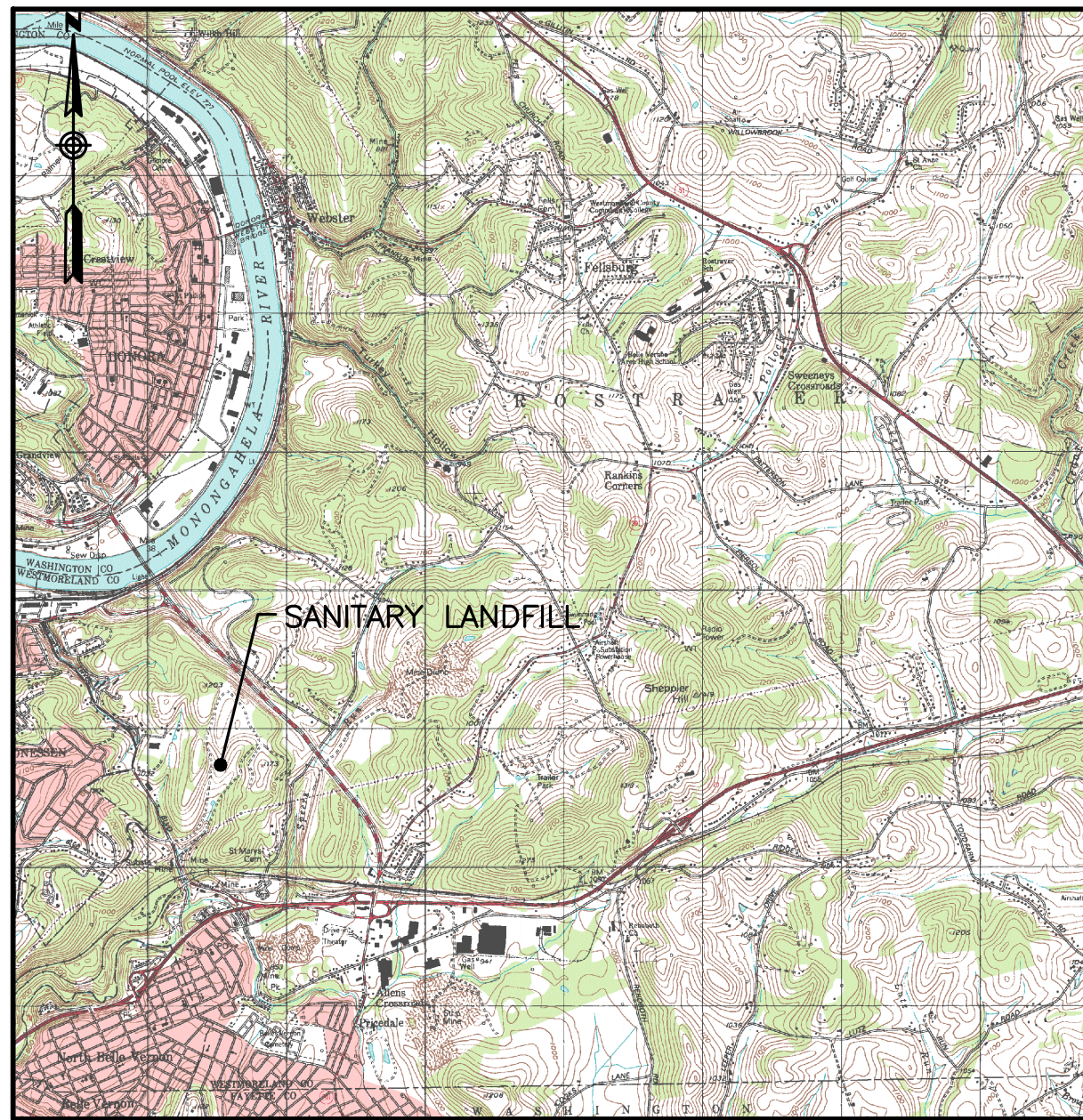
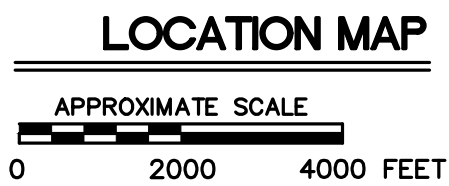


DRAWINGS

SANITARY LANDFILL
PHASE II
MINOR PERMIT MODIFICATION
ROSTRAVER TOWNSHIP, WESTMORELAND COUNTY
PADEP NO: 100277



REFERENCE:
U.S.G.S. 7.5' TOPOGRAPHIC QUADRANGLE MAPPING FOR:
BRUSH VALLEY, PENNSYLVANIA, DATED: 1963, PHOTOREVISED: 1981.
BOLIVAR, PENNSYLVANIA, DATED: 1964, REVISED: 1993.
INDIANA, PENNSYLVANIA, DATED: 1963, PHOTOREVISED: 1981.
NEW FLORENCE, PENNSYLVANIA, DATED: 1964, REVISED: 1993.
SCALE: 1"=2000' AS SHOWN.



NOTE:
THESE DRAWINGS ACCOMPANY AND ARE PART OF THE PERMIT APPLICATION DOCUMENTS TITLED,
WESTMORELAND WASTE, LLC SANITARY LANDFILL, NORTH AND SOUTH EXPANSION PHASE II
MAJOR PERMIT MODIFICATION*, DATED DECEMBER 2001, REVISED NOVEMBER 2002 BY G.N.
RICHARDSON AND ASSOCIATES, INC. AND RZI ENVIRONMENTAL MANAGEMENT CONSULTANTS.

PREPARED FOR:



111 CONNER LANE
BELLE VERNON, PA 15012

PREPARED BY:

CIVIL DESIGN SOLUTIONS, INC.
1331 State Ave. • Coraopolis, PA 15108
(412)299-2700 • (412)299-2922

LIST OF DRAWINGS

SHEET	DRAWING TITLE	PREPARED BY	REVISION NO.
1	TITLE / COVER SHEET	CDS	D1
2	EXISTING SITE CONDITIONS	RZI/GNRA	2
3	SITE DEVELOPEMENT PLAN	CDS	A
4	SUBGRADE PLAN - SOUTH EXPANSION	CDS	A
5	SUBGRADE PLAN - NORTH EXPANSION	CDS	A
6	TOP OF PROTECTIVE COVER - SOUTH EXPANSION	CDS	C
7	TOP OF PROTECTIVE COVER - NORTH EXPANSION	CDS	A2
8	PHASE S4-S3-A	RZI	5
8A	PHASE S4-S3-B	RZI	0
9A	PHASE S3-S2-A	RZI/GNRA	8
9B	PHASE S3-S2-B	RZI	8
10	PHASE S2-S1	RZI	7
11	PHASE S4 (THIS DRAWING HAS BEEN REMOVED)	RZI	2
12	PHASE S5	RZI	4
13	PHASE S6	RZI	3
14	PHASE N1	RZI	3
15	PHASE N2	RZI	3
16	PHASE S7	RZI	3
17	PHASE S8	RZI	3
18	PHASE N3	RZI/GNRA	2
19	PHASE N4	RZI/GNRA	2
20	PHASE N5	RZI/GNRA	2
21	PHASE N6	RZI/GNRA	2
22	PHASE N7	RZI/GNRA	2
23	FINAL GRADING & DRAINAGE PLAN - SOUTH EXPANSION	RZI/GNRA	3
24	FINAL GRADING & DRAINAGE PLAN - NORTH EXPANSION	RZI/GNRA	2
25	CROSS SECTION A-A	RZI/GNRA	3
26	CROSS SECTION B-B	RZI/GNRA	3
27	CROSS SECTION C-C	CDS	A
28	CROSS SECTION D-D	RZI/GNRA	2
29	CROSS SECTION E-E	RZI/GNRA	2
30	CROSS SECTION F-F	RZI/GNRA	2
31	CROSS SECTION G-G	RZI/GNRA	2
32	CROSS SECTION H-H	RZI/GNRA	2
33	CROSS SECTION I-I	RZI/GNRA	2

SHEET	DRAWING TITLE	PREPARED BY	REVISION NO.
34	CROSS SECTION J-J	RZI/GNRA	2
35	CROSS SECTION K-K	RZI/GNRA	3
36	CROSS SECTION L-L	CDS	A
37	PERIMETER SECTION AND BERM DETAILS	RZI/GNRA	1
38	LINER DETAILS (SHEET 1 OF 2)	RZI/GNRA	2
39	LINER DETAILS (SHEET 2 OF 2)	CDS	C
40	LEACHATE COLLECTION DETAILS (SHEET 1 OF 7)	CDS	C
41	LEACHATE COLLECTION DETAILS (SHEET 2 OF 7)	CDS	C
42	LEACHATE COLLECTION DETAILS (SHEET 3 OF 7)	CDS	C
43	LEACHATE COLLECTION DETAILS (SHEET 4 OF 7)	RZI/GNRA	2
43A	LEACHATE COLLECTION DETAILS (SHEET 5 OF 7)	RZI/GNRA	3
43B	LEACHATE COLLECTION DETAILS (SHEET 6 OF 7)	RZI/GNRA	2
43C	LEACHATE COLLECTION DETAILS (SHEET 7 OF 7)	RZI	2
44	LEACHATE RISER PUMP HOUSE DETAILS	RZI/GNRA	2
45	LEACHATE MANAGEMENT PLAN AND DETAILS	CDS	C1
45A	LEACHATE MANAGEMENT PLAN AND DETAILS	CDS	C1
46	LEACHATE MANHOLE DETAILS	CDS	C1
46A	ON-SITE TREATMENT PIPING	CDS	G
46B	ON-SITE TREATMENT MANHOLE	CDS	G
47	STORMWATER MANAGEMENT PLAN	RZI/GNRA	2
48	SEDIMENTATION BASIN PLAN - EXISTING	CDS	D1
49	SEDIMENTATION BASIN D PLAN & SECTIONS	RZI/GNRA	2
50	SEDIMENTATION BASIN E PLAN & SECTIONS	RZI/GNRA	2
51	SEDIMENTATION P LAN F PLAN & SECTIONS	RZI/GNRA	2
51A	SEDIMENTATION BASIN G PLAN & SECTIONS	RZI/GNRA	1
52	STORMWATER MANAGEMENT DETAILS (SHEET 1 OF 3)	CDS	D1
53	STORMWATER MANAGEMENT DETAILS (SHEET 2 OF 3)	CDS	D1
54	STORMWATER MANAGEMENT DETAILS (SHEET 3 OF 3)	CDS	B
55	PERIMETER DRAINAGE CHANNEL PLAN & PROFILE	RZI/GNRA	2
56	NORTHERN EXPANSION ACCESS ROAD PLAN & PROFILE	RZI/GNRA	1
57	--- (SHEET REMOVED) ---	CDS	B
58	GAS MANAGEMENT PLAN	CDS	D1
59	GAS MANAGEMENT DETAILS (SHEET 1 OF 2)	CDS	B1
60	GAS MANAGEMENT DETAILS (SHEET 2 OF 2)	CDS	B
61	FINAL COVER DETAILS	CDS	A2
62	MISCELLANEOUS DETAILS	RZI/GNRA	2

- NOTES:
- THESE DRAWINGS WERE ORIGINALLY PREPARED BY G.N. RICHARDSON AND ASSOCIATES, INC. (GNRA) AND RZI ENVIRONMENTAL MANAGEMENT CONSULTANTS (RZI). AVAILABLE REVISIONS TO THESE DRAWINGS HAVE BEEN IDENTIFIED IN THE TABLE ABOVE BY THE CONSULTANT THAT PREPARED THE REVISED DRAWING AND A REVISION NUMBER.
 - REVISION A, A1 AND A2 IDENTIFIED ON THE TABLE ABOVE DENOTES REVISIONS MADE BY CIVIL DESIGN SOLUTIONS, INC. AS PART OF A MINOR PERMIT MODIFICATION TO REVISE THE SOUTHEASTERN BASEGRADES WITHIN THE CELL S1 AREA. THE SHEET NUMBERS ON THESE REVISED SHEETS HAVE BEEN PRECEDED BY "(2013-059)" TO PROVIDE A UNIQUE REFERENCE FOR THE DRAWINGS.
 - REVISION B IDENTIFIED ON THE TABLE ABOVE DENOTES REVISIONS MADE BY CIVIL DESIGN SOLUTIONS, INC. AS PART OF A MINOR PERMIT MODIFICATION FOR THE USE OF A TEMPORARY GEOMEMBRANE TARP AND TO PROVIDE STORMWATER EROSION AND SEDIMENTATION CALCULATIONS. THE SHEET NUMBERS ON THESE REVISED SHEETS HAVE BEEN PRECEDED BY "(2013-129)" TO PROVIDE A UNIQUE REFERENCE FOR THESE DRAWINGS.
 - REVISION B AND B1 IDENTIFIED ON THE TABLE ABOVE DENOTES REVISIONS MADE BY CIVIL DESIGN SOLUTIONS, INC. AS PART OF A MINOR PERMIT MODIFICATION TO PRESENT A REPLACEMENT ENHANCED GAS MANAGEMENT SYSTEM DESIGN FOR THE FACILITY. THE SHEET NUMBERS ON THESE REVISED SHEETS HAVE BEEN PRECEDED BY "(2013-158)" TO PROVIDE A UNIQUE REFERENCE FOR DRAWINGS.
 - REVISION C IDENTIFIED ON THE TABLE ABOVE DENOTES REVISIONS MADE BY CIVIL DESIGN SOLUTIONS, INC. AS PART OF A MINOR PERMIT MODIFICATION TO PROVIDE UPGRADES TO THE LEACHATE CONVEYANCE SYSTEM. THE SHEET NUMBERS ON THESE REVISED SHEETS HAVE BEEN PRECEDED BY "(2014-191)" TO PROVIDE A UNIQUE REFERENCE FOR THESE DRAWINGS.
 - REVISION D IDENTIFIED ON THE TABLE ABOVE DENOTES REVISIONS MADE BY CIVIL DESIGN SOLUTIONS, INC. AS PART OF A MINOR PERMIT MODIFICATION TO IDENTIFY A HIGH BTU GAS PROCESSING PLANT. REVISION D1 IDENTIFIES THOSE DRAWINGS REVISED AS PART OF THE RESPONSE TO PADEP ADMINISTRATIVE REVIEW COMMENTS SUBMITTED IN 11/2017.
 - REVISION E AND F WERE BOTH WITHDRAWN FROM THE PADEP PRIOR TO APPROVAL.
 - REVISION G IDENTIFIED ON THE TABLE ABOVE DENOTES REVISIONS MADE BY CIVIL DESIGN SOLUTIONS, INC. AS PART OF A TRIAL PROJECT TO PROPOSE ON-SITE LEACHATE TREATMENT.

MINOR PERMIT MODIFICATION
SUBMITTED FEBRUARY, 2025





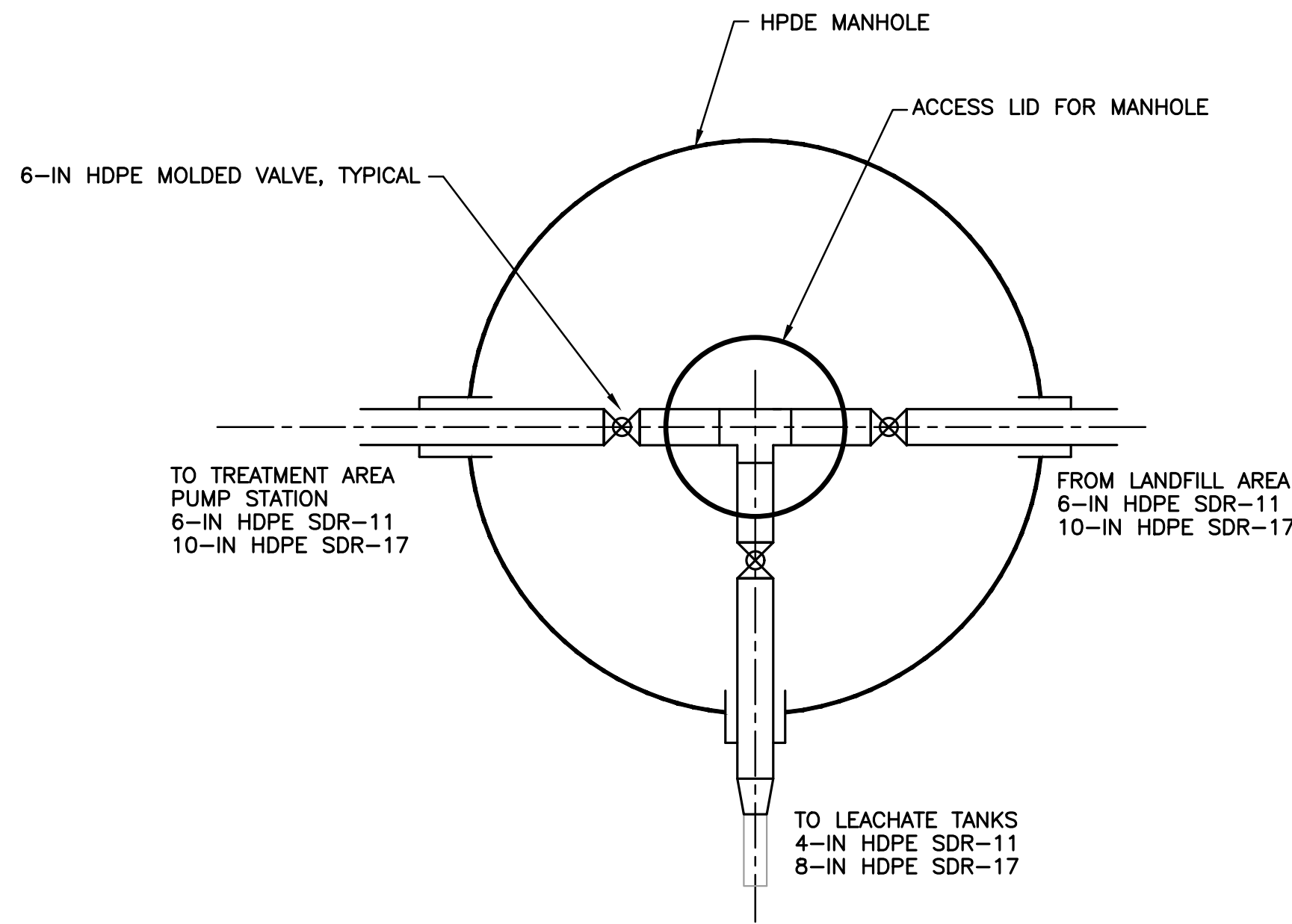
A circular professional engineer seal for the Commonwealth of Pennsylvania. The outer ring contains the text "COMMONWEALTH OF PENNSYLVANIA". Inside the ring, a banner reads "REGISTERED PROFESSIONAL ENGINEER". Below the banner, the name "DAVID W. MURRAY" is printed. At the bottom, the license number "NO. 045974-E" is displayed. A blue ink signature, "David W. Murray", is written across the seal.

REV	DATE	DESCRIPTION				BY	CHK
DES	DJM 02/12/25	PROJECT: SANITARY LANDFILL ROSTRAVER TWP., WESTMORELAND COUNTY, PA SHEET TITLE: ON-SITE TREATMENT PIPING					
CHECK	DWM 02/12/25						
APPROVED	DWM 02/12/25						
SCALE	1" = 50'						
ISSUED	02/2025						
REVISION	—						
SHEET NO:				DRAWING NO:			
(2024-098)-01				46A			

A
46B **EXISTING VALVING MANHOLE**

NOT TO SCALE

NOTE: NO CHANGES PROPOSED TO EXISTING
MANHOLE SHOWN HERE. DETAIL INCLUDED
FOR REFERENCE AND COMPLETENESS.



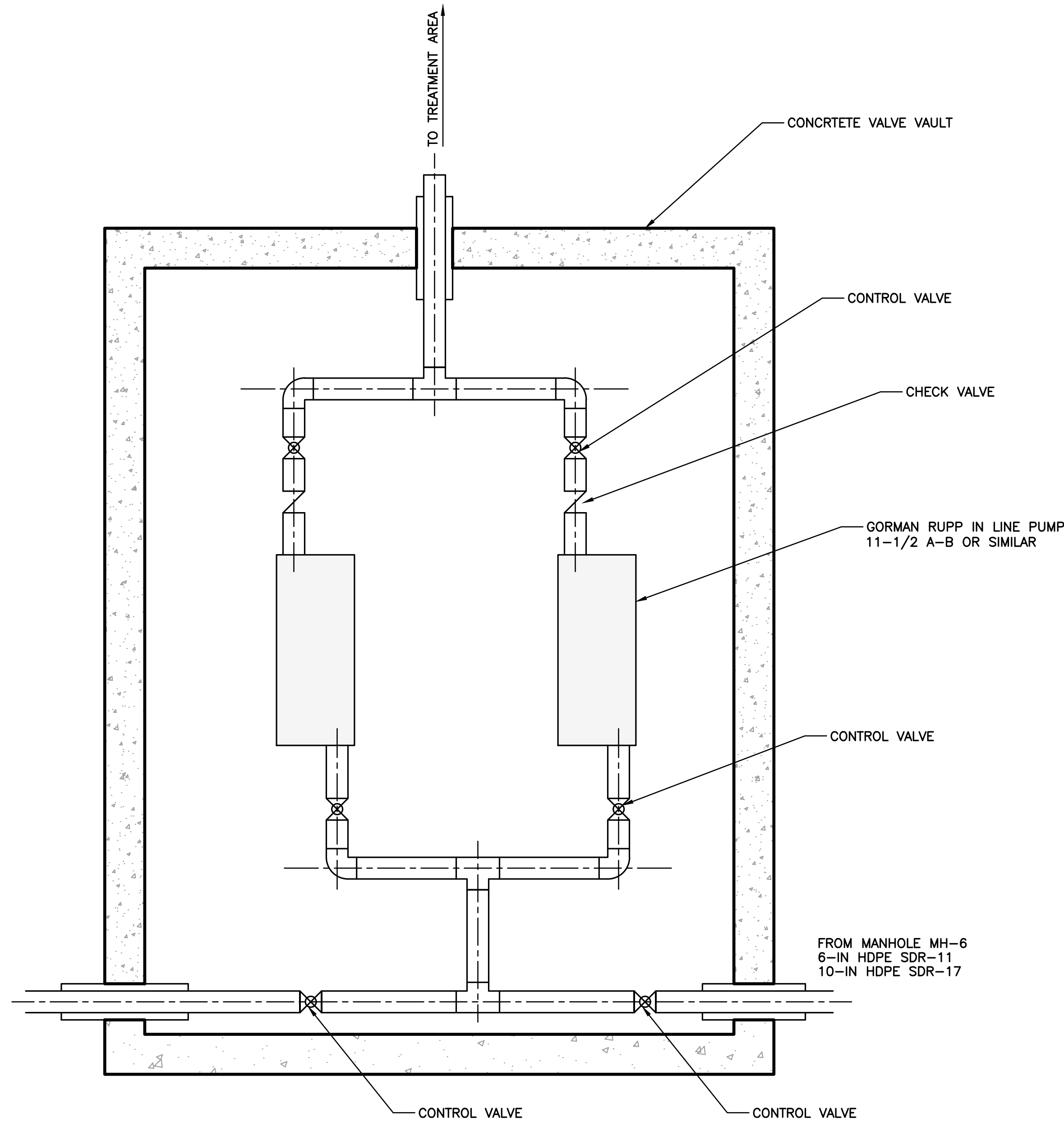
B
46B **EXISTING MANHOLE 6**

NOT TO SCALE

NOTE: NO CHANGES PROPOSED TO EXISTING
MANHOLE SHOWN HERE. DETAIL INCLUDED
FOR REFERENCE AND COMPLETENESS.

C
46B **PUMP STATION TO TREATMENT AREA**

NOT TO SCALE



REV	DATE	DESCRIPTION	BY	CHK
DES	DJM 02/12/25	PROJECT: SANITARY LANDFILL		
CHECK	DWM 02/12/25	ROSTRAVER TWP., WESTMORELAND COUNTY, PA		
APPROVED	DWM 02/12/25	SHEET TITLE:		
SCALE	N.T.S.	ON-SITE TREATMENT MANHOLES		
ISSUED	02/2025			
REVISION	-			
SHEET NO: (2024-098)-02			DRAWING NO: 46B	

