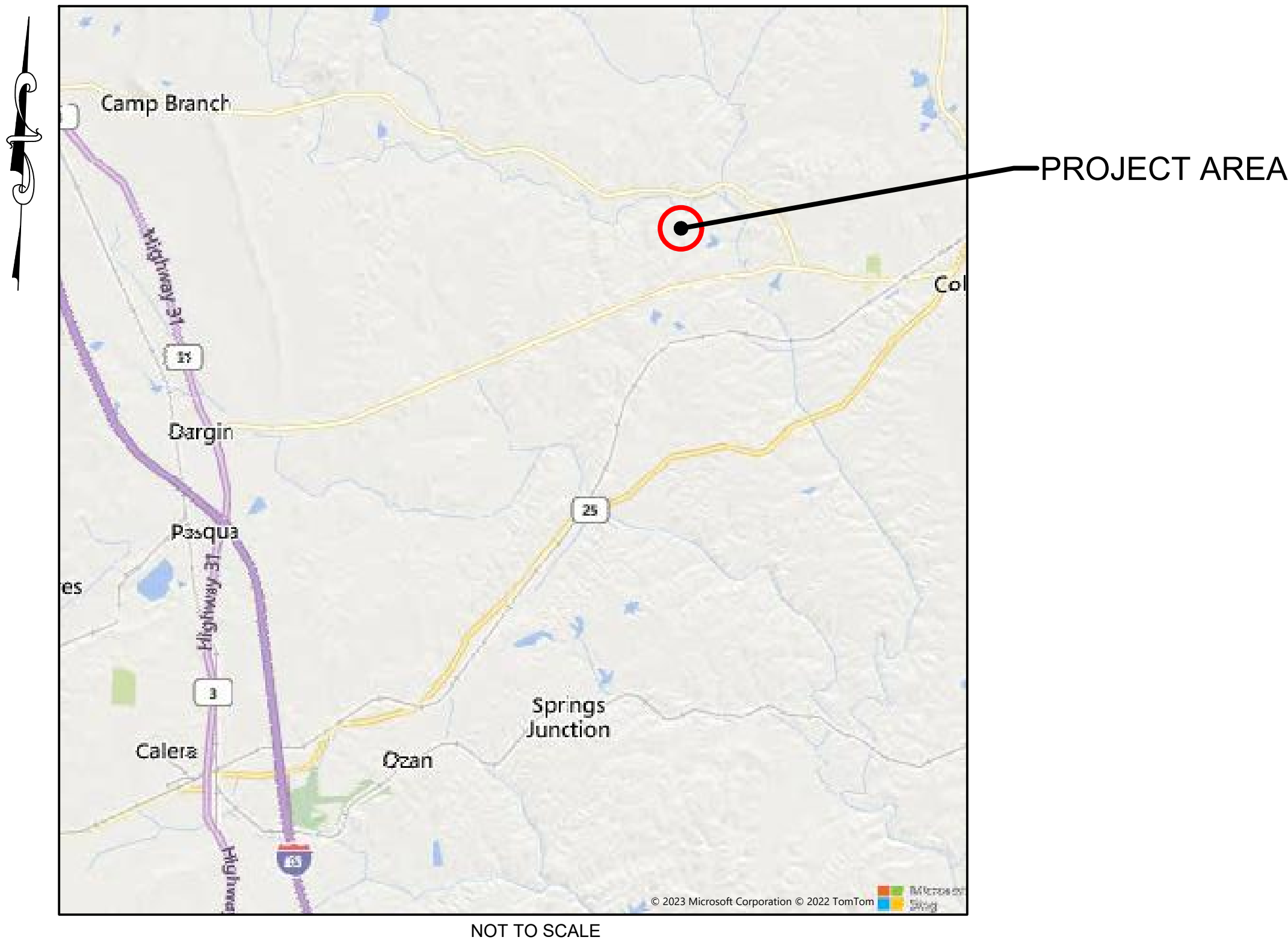
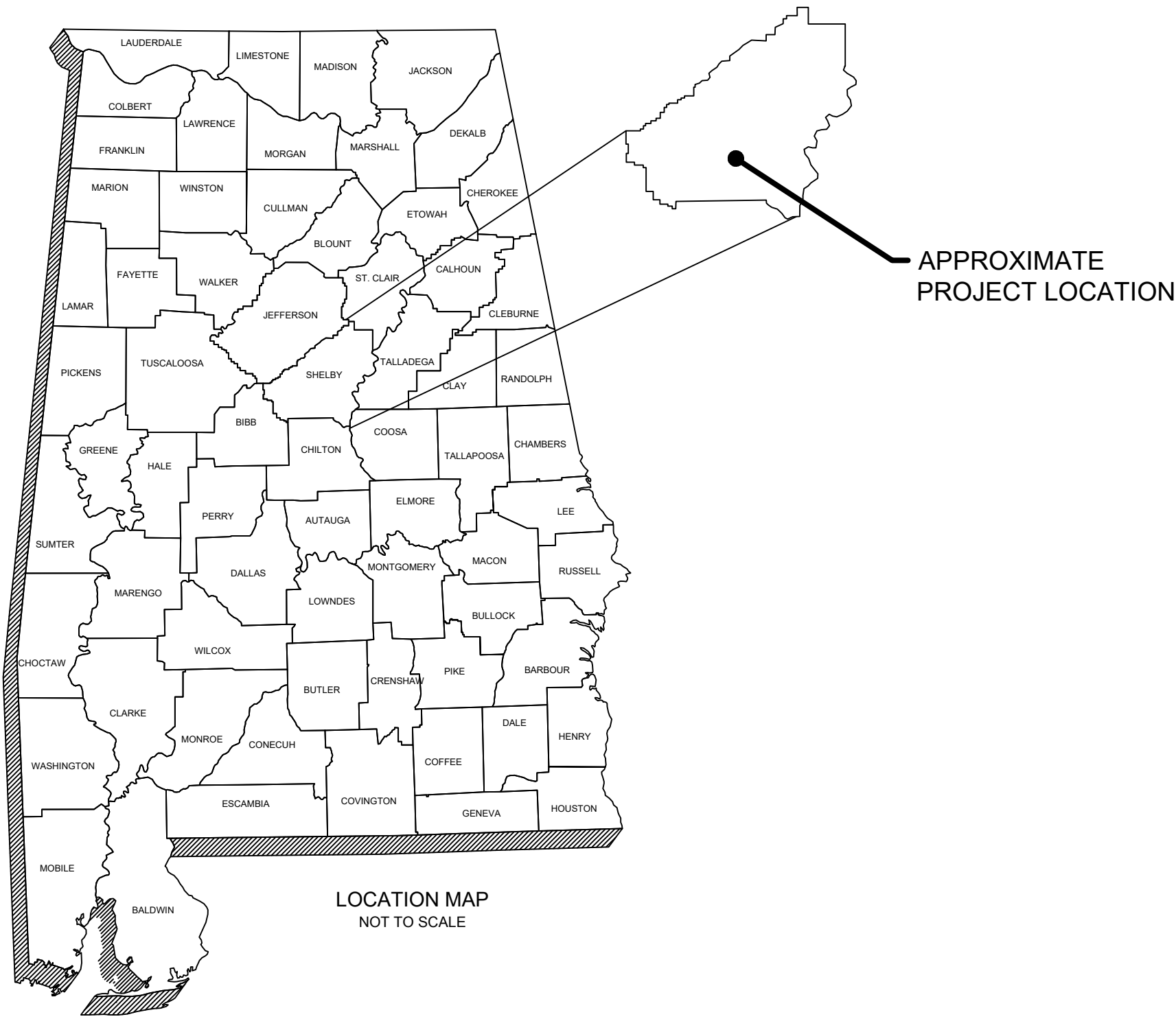


SHELBY COUNTY LANDFILL GAS COLLECTION SYSTEM EXPANSION PROJECT

SHELBY COUNTY, ALABAMA



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JOSEPH ROSCOE ADAMS

9-1-2023

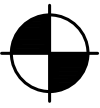
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NOTES

1. SURVEY COORDINATES BASED ON ALABAMA STATE PLANE SYSTEM, WEST. NAD83
2. ELEVATIONS BASED ON NAVD 88, GEOID 18.
3. TOPOGRAPHIC INFORMATION SHOWN BASED ON AERIAL SURVEY BY CDG, DATED JANUARY 2023.
4. DUE TO THE NATURE OF LANDFILLS EXISTING TOPOGRAPHIC CONDITIONS ARE SUBJECT TO CHANGE PRIOR TO CONSTRUCTION. ALL ELEVATIONS AT WELL LOCATIONS TO BE FIELD VERIFIED PRIOR TO CONSTRUCTION.
5. ALL PIPING IS TO BE INSTALLED TO ENSURE POSITIVE DRAINAGE OF CONDENSATE TO THE HEADER SYSTEM WITH A MINIMUM GRADE OF 3% UNLESS OTHERWISE INDICATED.
6. ALL EXCAVATED WASTE IS TO BE TRANSPORTED TO THE WORKING FACE. THE CONTRACTOR SHALL PROVIDE ALL EQUIPMENT NECESSARY TO PERFORM THIS WORK AND SHALL BE INCLUDED IN WELL CONSTRUCTION COSTS.
7. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE ANY EXCAVATED WASTE OR LITTER CREATED BY CONSTRUCTION ACTIVITIES IS CLEANED UP DAILY TO THE SATISFACTION OF THE OWNER.
8. ALL DISTURBED AREAS SHALL BE HYDRO-SEEDED AND MULCHED TO THE OWNER'S SATISFACTION.
9. BACKFILL AND COVER SOIL IS AVAILABLE AT THE SITE.
10. NO TRENCHES ARE TO BE LEFT OPEN AT THE END OF DAILY OPERATIONS.
11. PRELIMINARY LAYOUT OF WELLS AND HEADER LOCATION SHALL BE PERFORMED BY THE ENGINEER PRIOR TO WORK. ANY ADDITIONAL STAKING REQUESTED BY THE CONTRACTOR OR DUE TO DESTRUCTION OF STAKES SHALL BE AT THE CONTRACTORS EXPENSE.
12. WELL LENGTH IN WELL SCHEDULE INCLUDES 4' OF SOLID PIPE ABOVE GROUND.
13. WATER IS AVAILABLE AT THE SITE AT NO EXPENSE TO THE CONTRACTOR.
14. ALL BENCHMARKS ARE 5/8" CAPPED REBAR.
15. ANY RIP-RAP EXCAVATED SHALL BE STOCKPILED & REUSED.
16. LENGTH OF PIPING INCLUDES 7-FT TURN UP FOR WELL CONNECTIONS.
17. ALL ABANDONMENTS SHALL BE REMOVED IN SUCH WAY THEY ARE BELOW EXISTING GROUND.


LEGEND




REQUIRED GAS EXTRACTION WELL




REQUIRED 14" OR 10" HDPE HEADER




REQUIRED 6" HDPE LATERAL




REQUIRED 2" SDR-11 HDPE AIR SUPPLY LINE



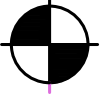
REQUIRED 2" SDR-11 HDPE FORCE MAIN




REQUIRED PUMP STATION




REQUIRED HEADER ACCESS RISER




REQUIRED REMOTE WELL ASSEMBLY




REQUIRED 10" HEADER VALVE




EXISTING 6" HDPE LATERAL




EXISTING 10" HDPE HEADER




EXISTING GAS EXTRACTION WELL




EXISTING MAJOR CONTOUR




EXISTING MINOR CONTOUR




EXISTING PUMP STATION



EXISTING CLEANOUT



EXISTING 10" HDPE HEADER REQUIRING REMOVAL



EXISTING 6" HDPE LATERAL REQUIRING REMOVAL

WELL	EASTING	NORTHING	EXISTING GROUND ELEVATION	LINER ELEVATION	BOTTOM OF WELL ELEVATION	WELL DEPTH	LENGTH OF SLOTTED PIPE	LENGTH OF SOLID PIPE
VW-24	2213893.03	1158574.733	691.702	587.983	597.983	93.719	73	24
VW-25	2213758.03	1158808.56	647.012	587.995	597.995	49.017	29	24
VW-26	2213890.53	1159042.387	681.964	589.24	599.24	82.724	62	24
VW-27	2214025.53	1159276.214	668.601	591.951	601.951	66.65	46	24
VW-28	2213755.53	1159276.214	638.438	587.844	597.844	40.594	20	24
VW-29	2213890.53	1159510.04	665.113	587.954	597.954	67.159	47	24
VW-30	2213754.95	1159743.924	630	585.907	595.907	34.093	14	24
VW-31	2214025.53	1159743.867	665.815	588.382	598.382	67.433	47	24
VW-36	2213965.949	1159002.618	690.937	591.223	601.223	89.714	74	19
VW-37	2214014.982	1158606.471	691.673	603.376	613.376	78.297	58	24
						TOTALS	470	235
*LENGTH OF SOLID PIPE INCLUDES 4' SECTION OF PIPE ABOVE GROUND						TOTAL WELL DRILLING	705	



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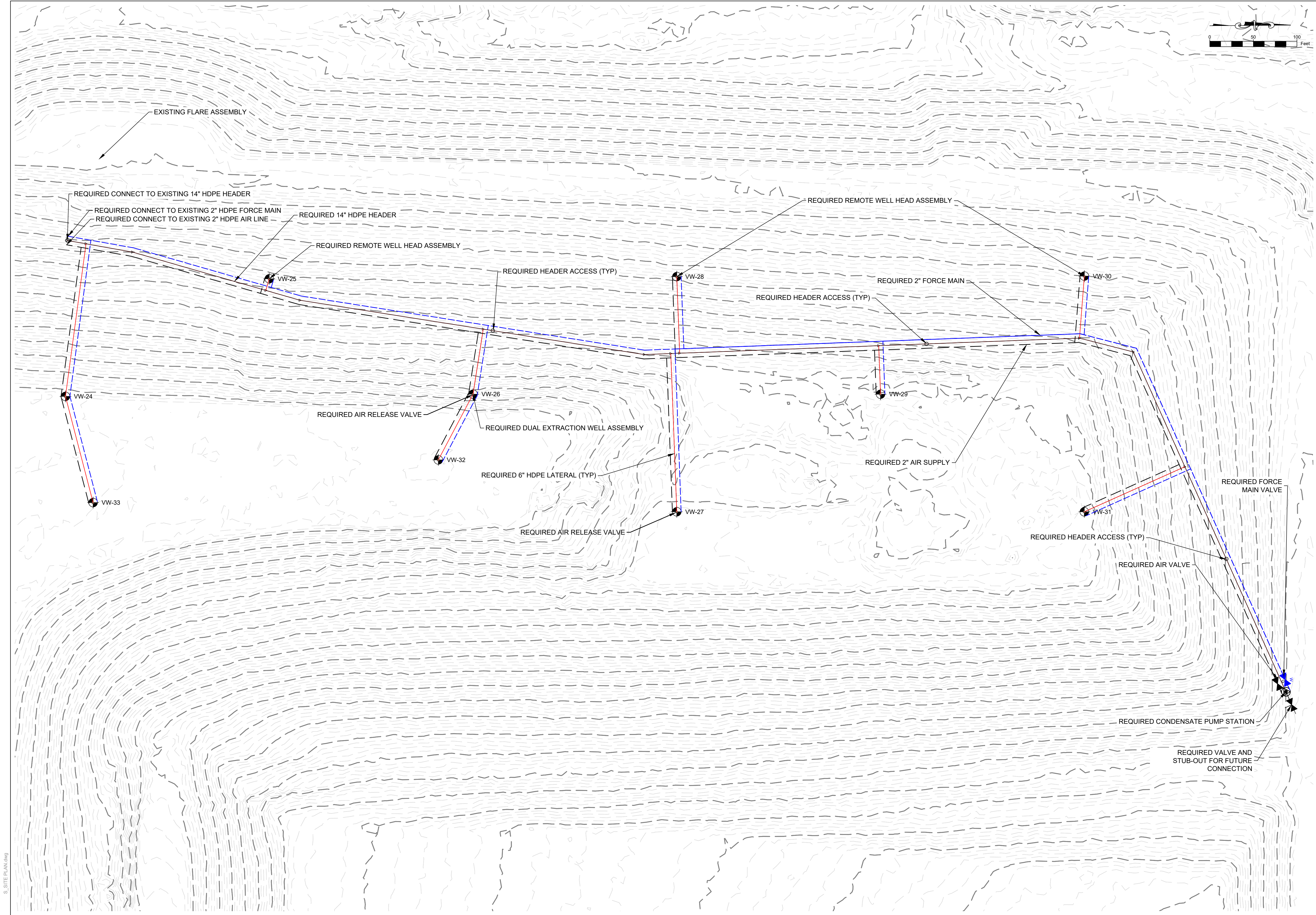
GENERAL INFORMATION
SHELBY COUNTY LANDFILL GAS COLLECTION SYSTEM EXPANSION PROJECT
SHELBY COUNTY, ALABAMA



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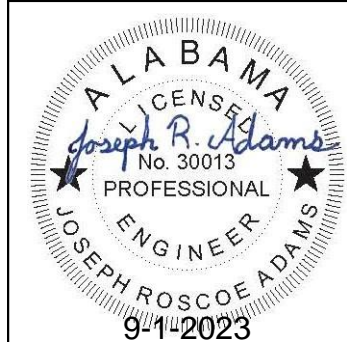
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SHEET NO. C-101



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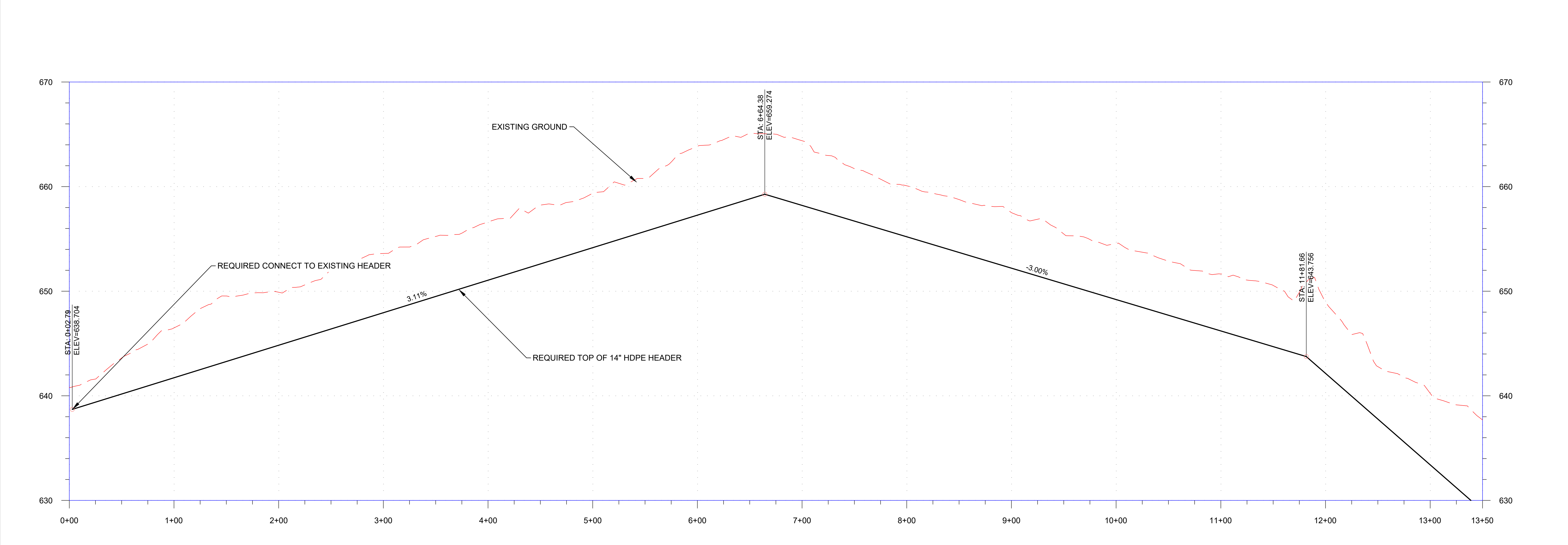
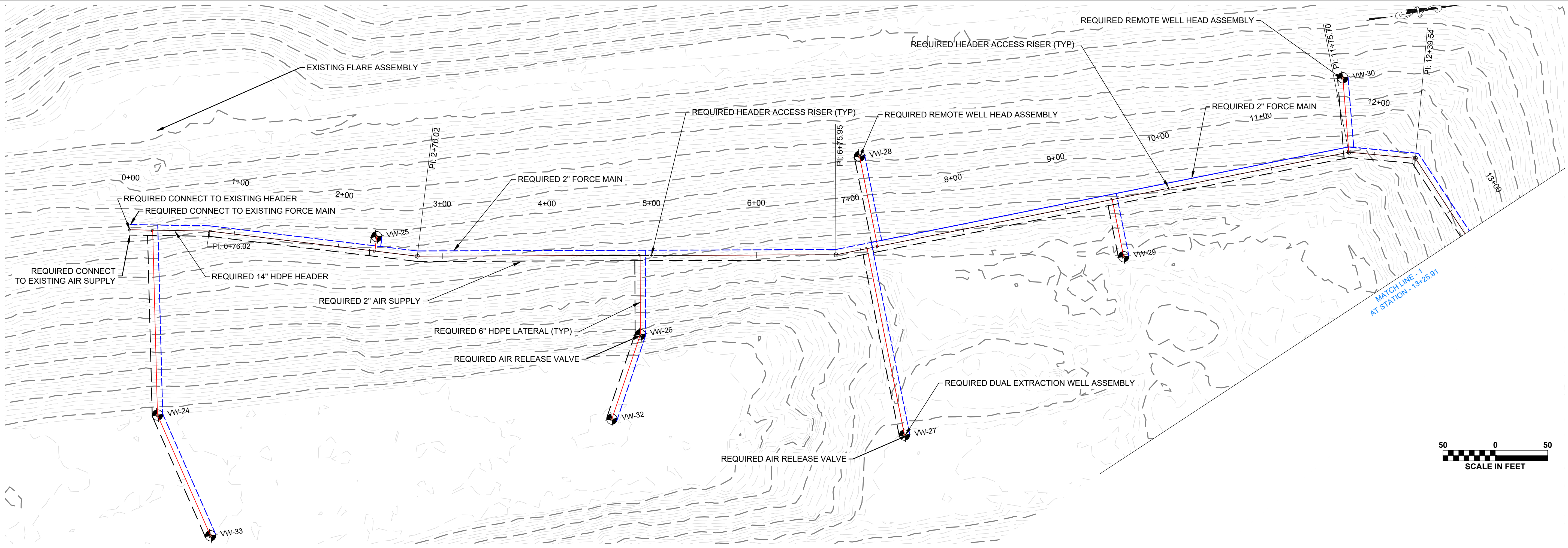
SITE PLAN
SHELBY COUNTY LANDFILL GAS COLLECTION SYSTEM EXPANSION PROJECT
SHELBY COUNTY, ALABAMA



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SHEET NO. C-300





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HEADER 1 PLAN & PROFILE
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SHELBY COUNTY, ALABAMA

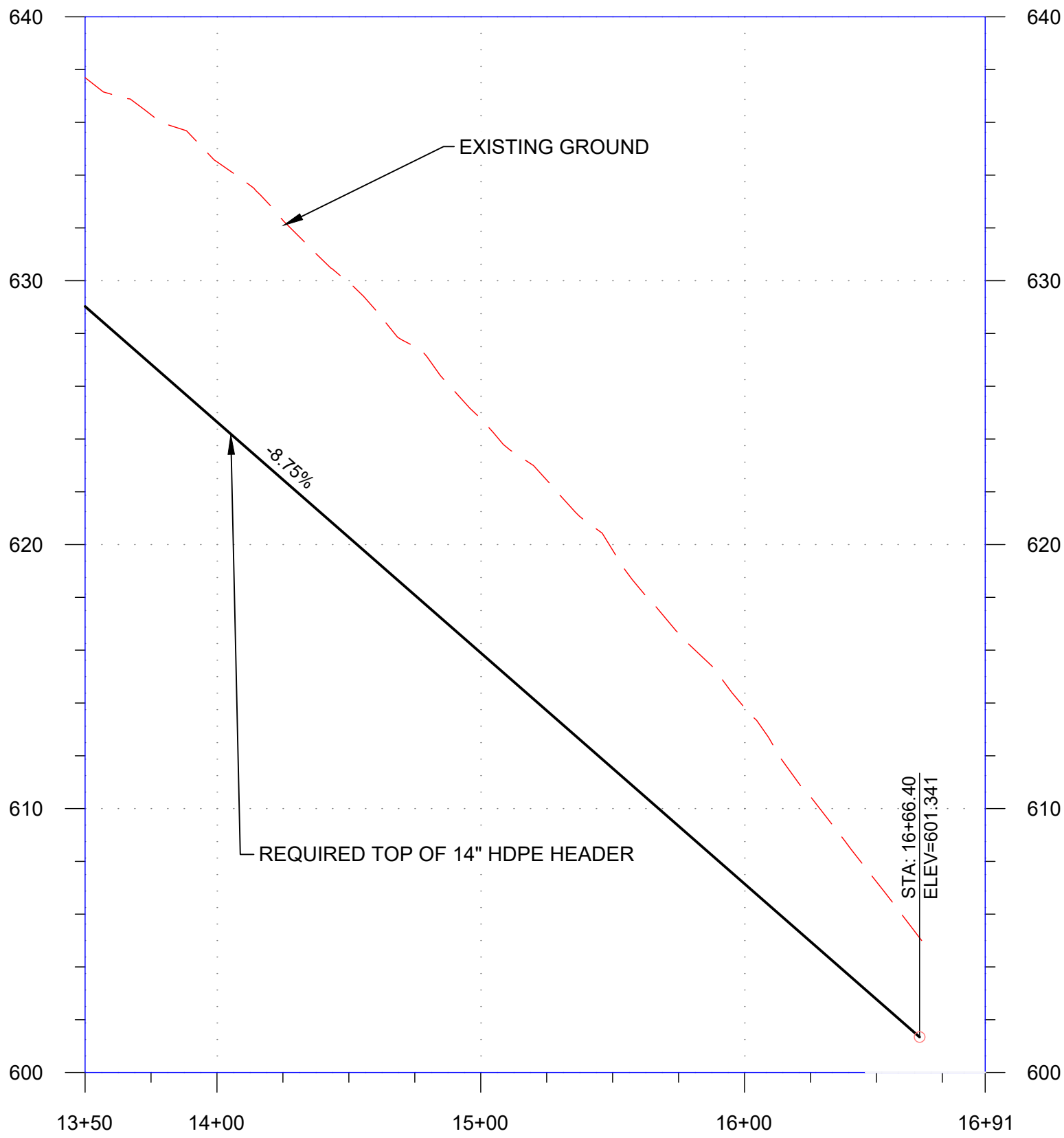
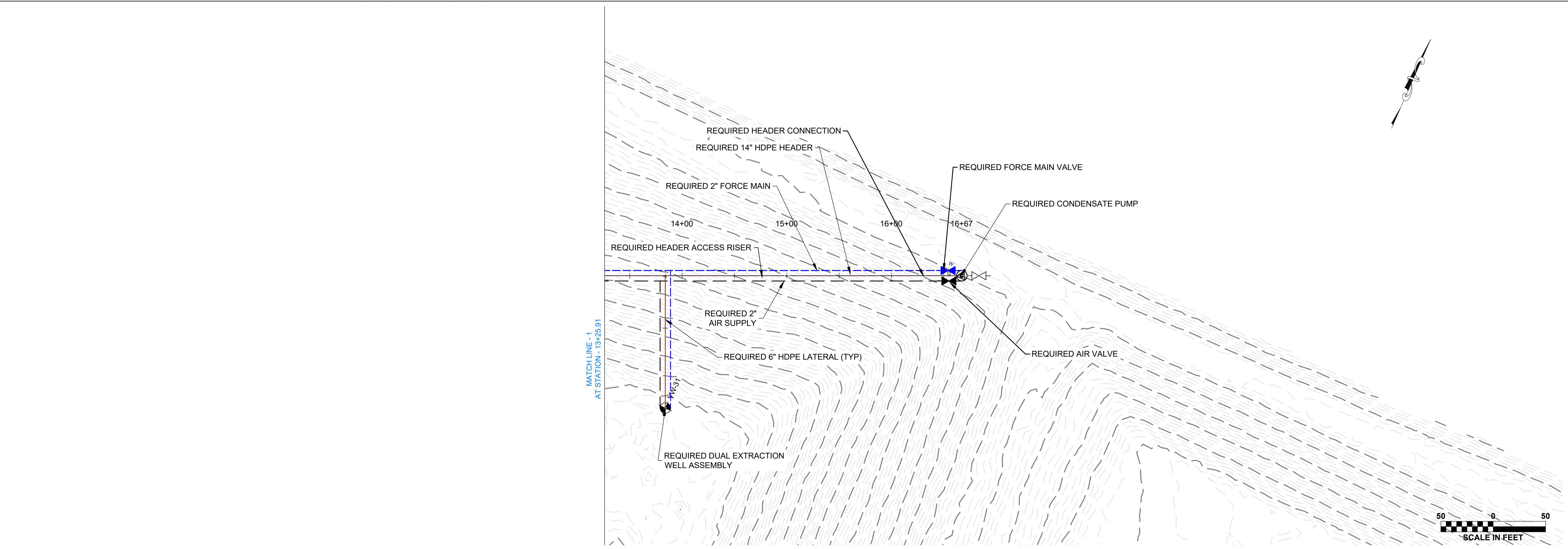


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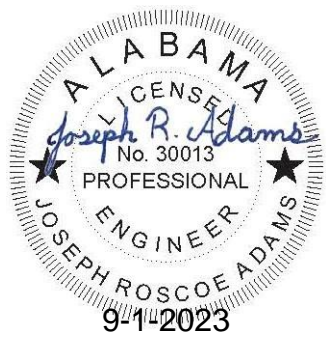
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HEADER 1 PLAN & PROFILE
SHELBY COUNTY LANDFILL GAS COLLECTION SYSTEM EXPANSION PROJECT
SHELBY COUNTY, ALABAMA

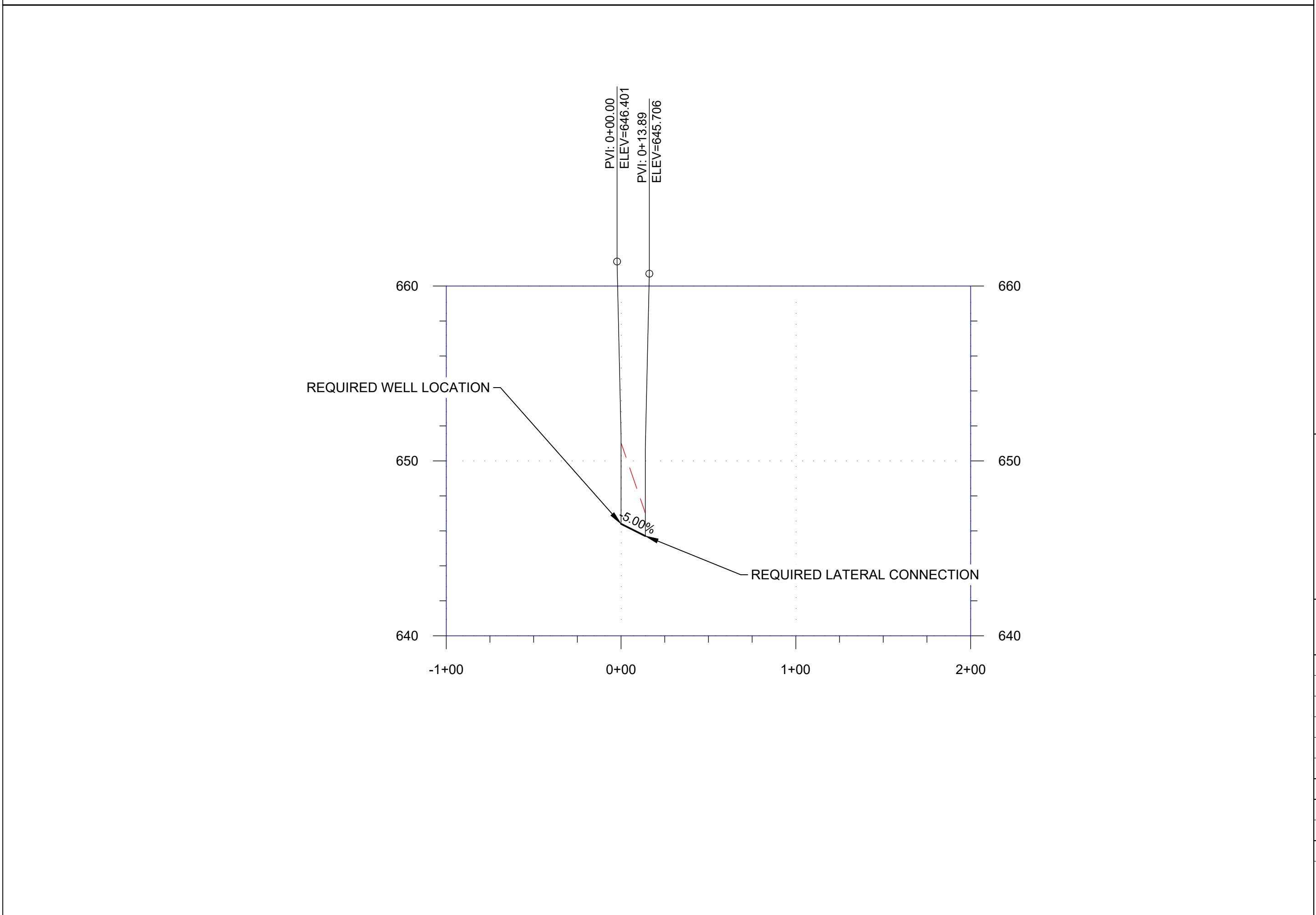
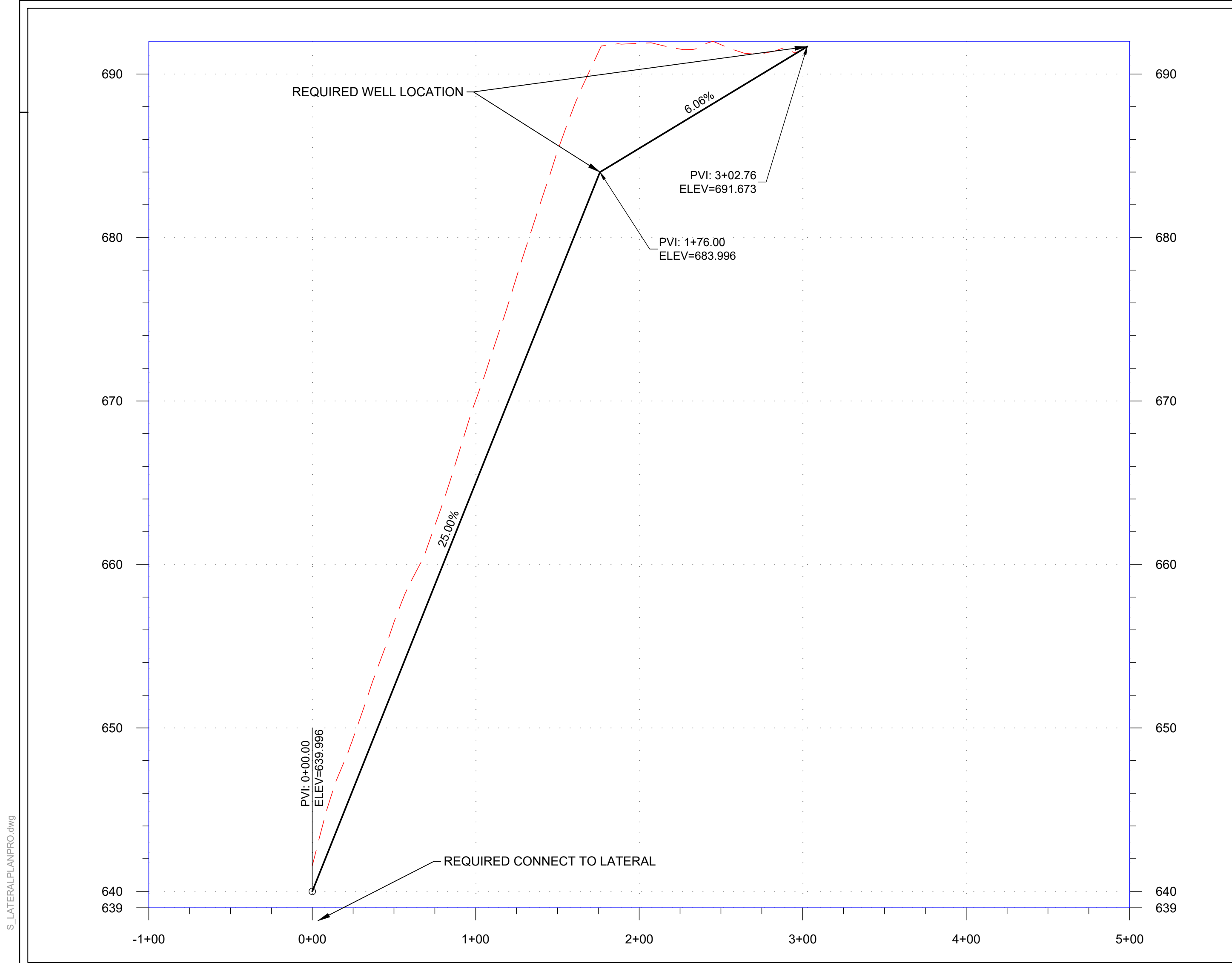
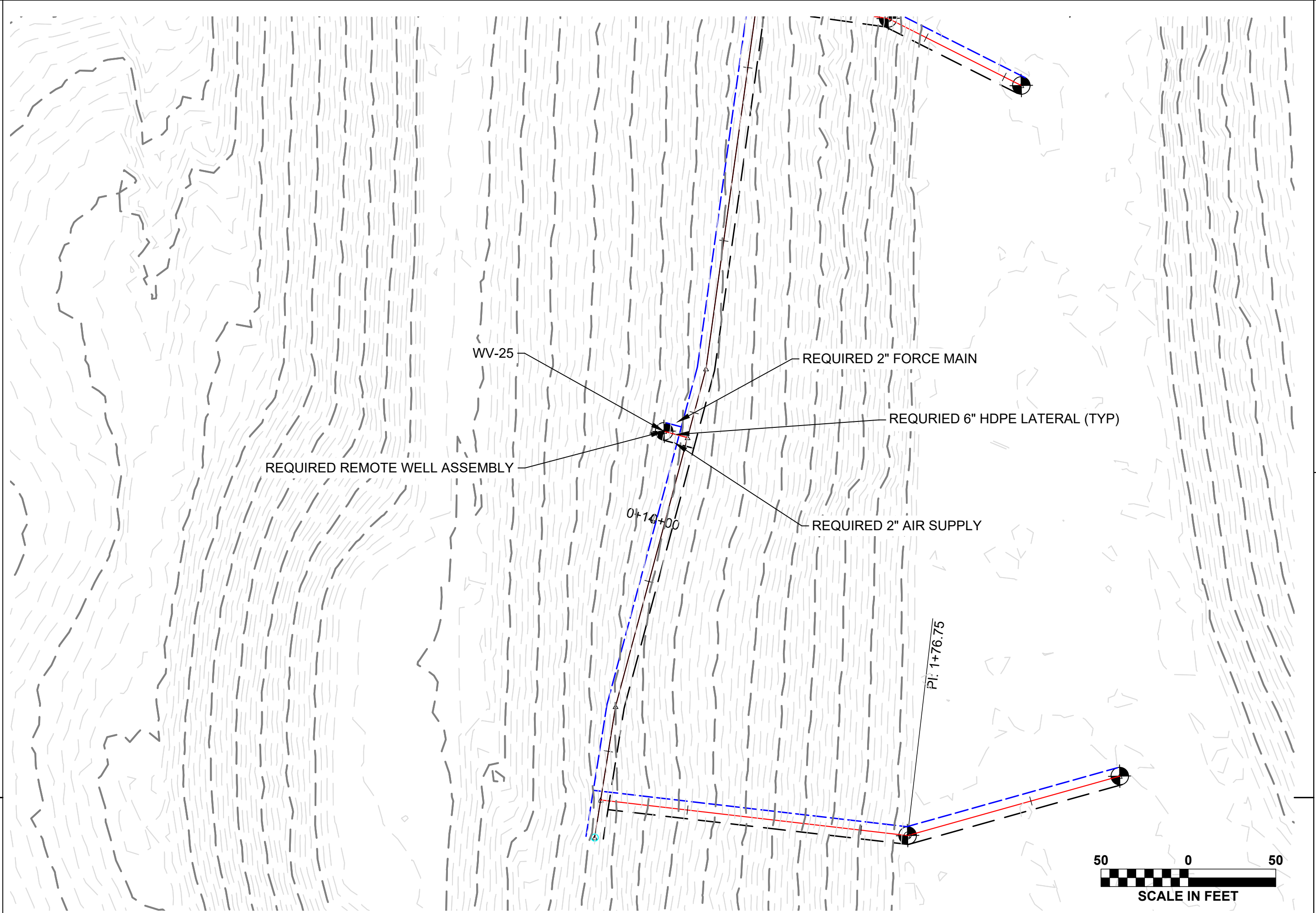
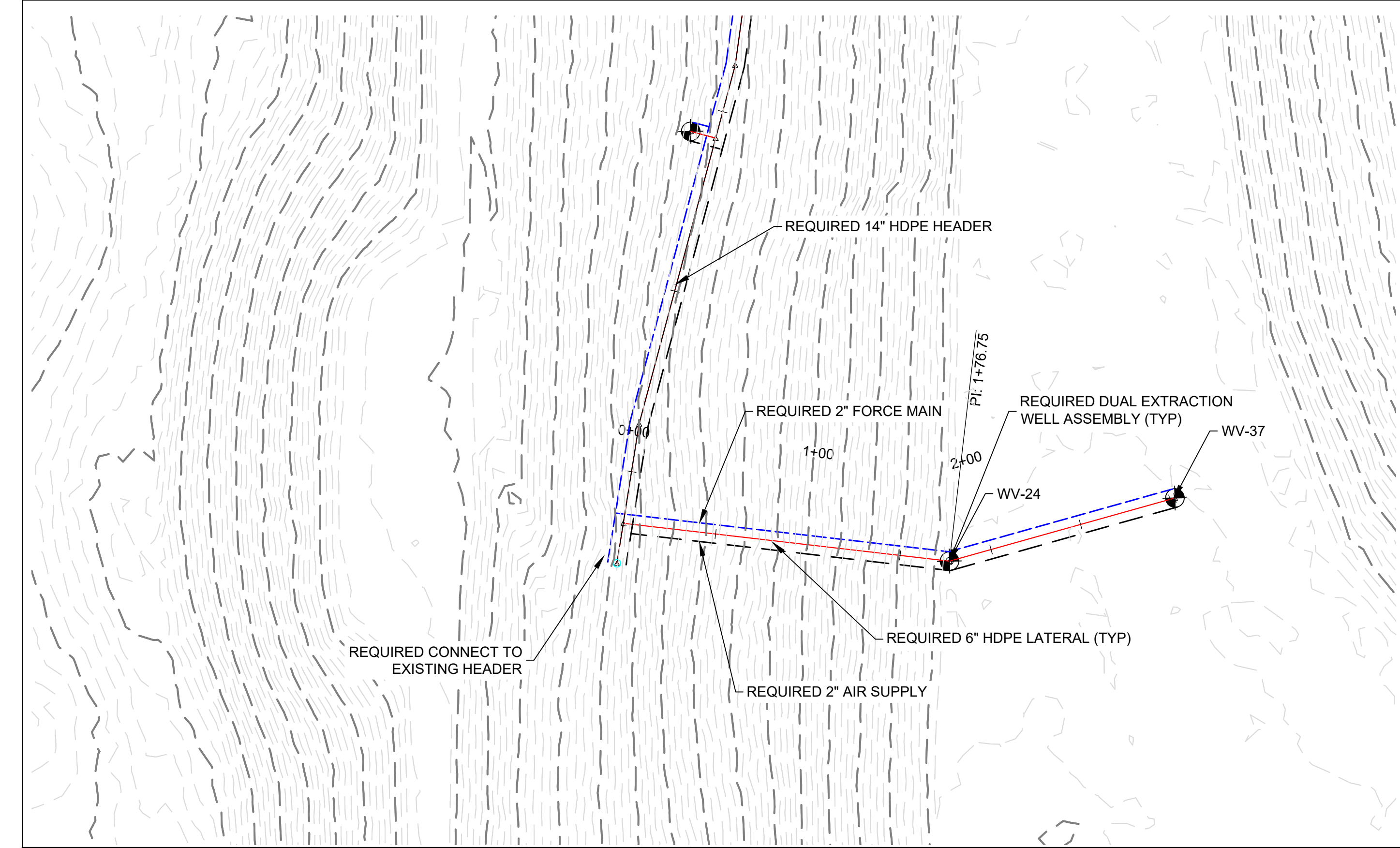


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V-24, V-33, & V-25

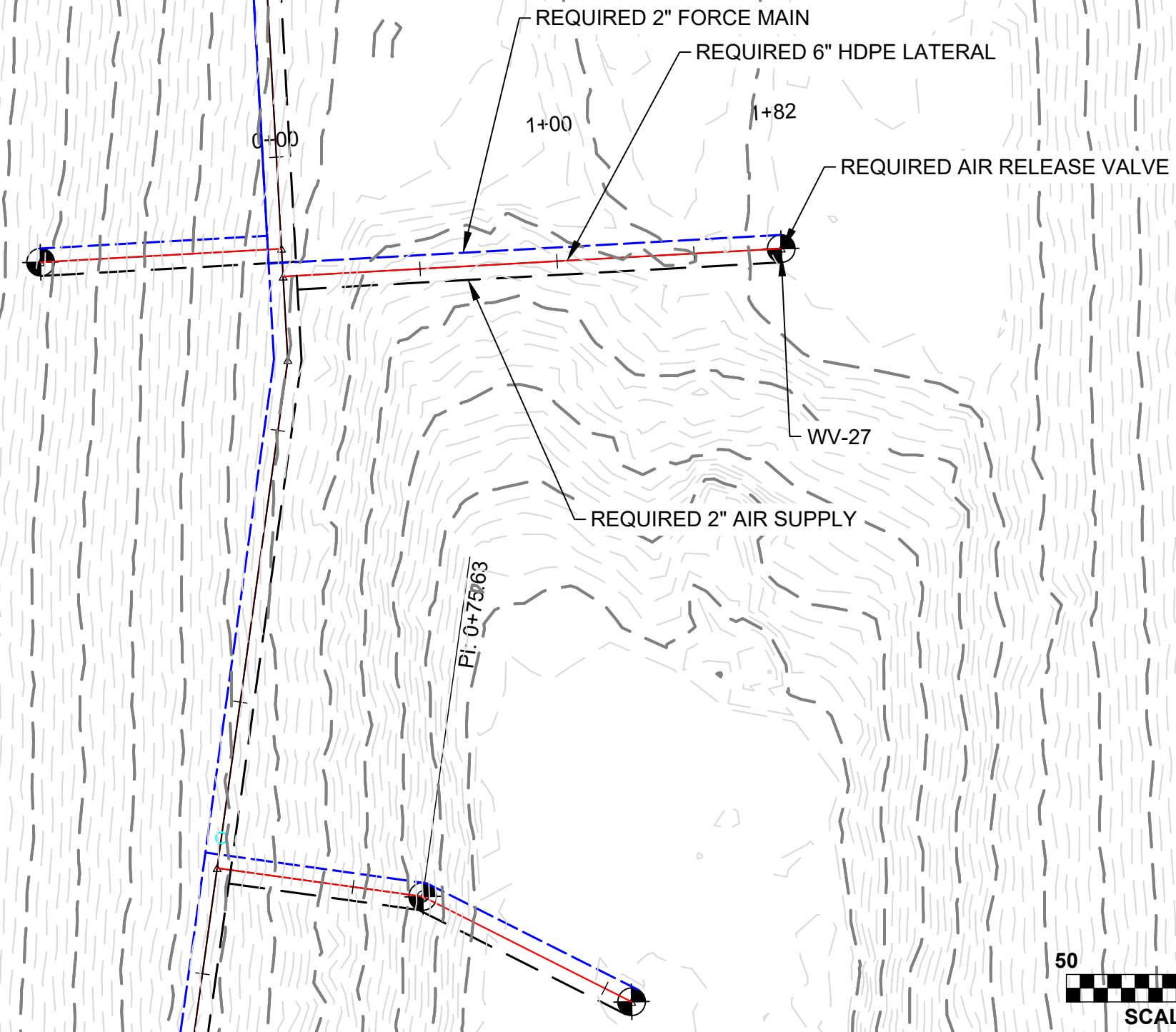
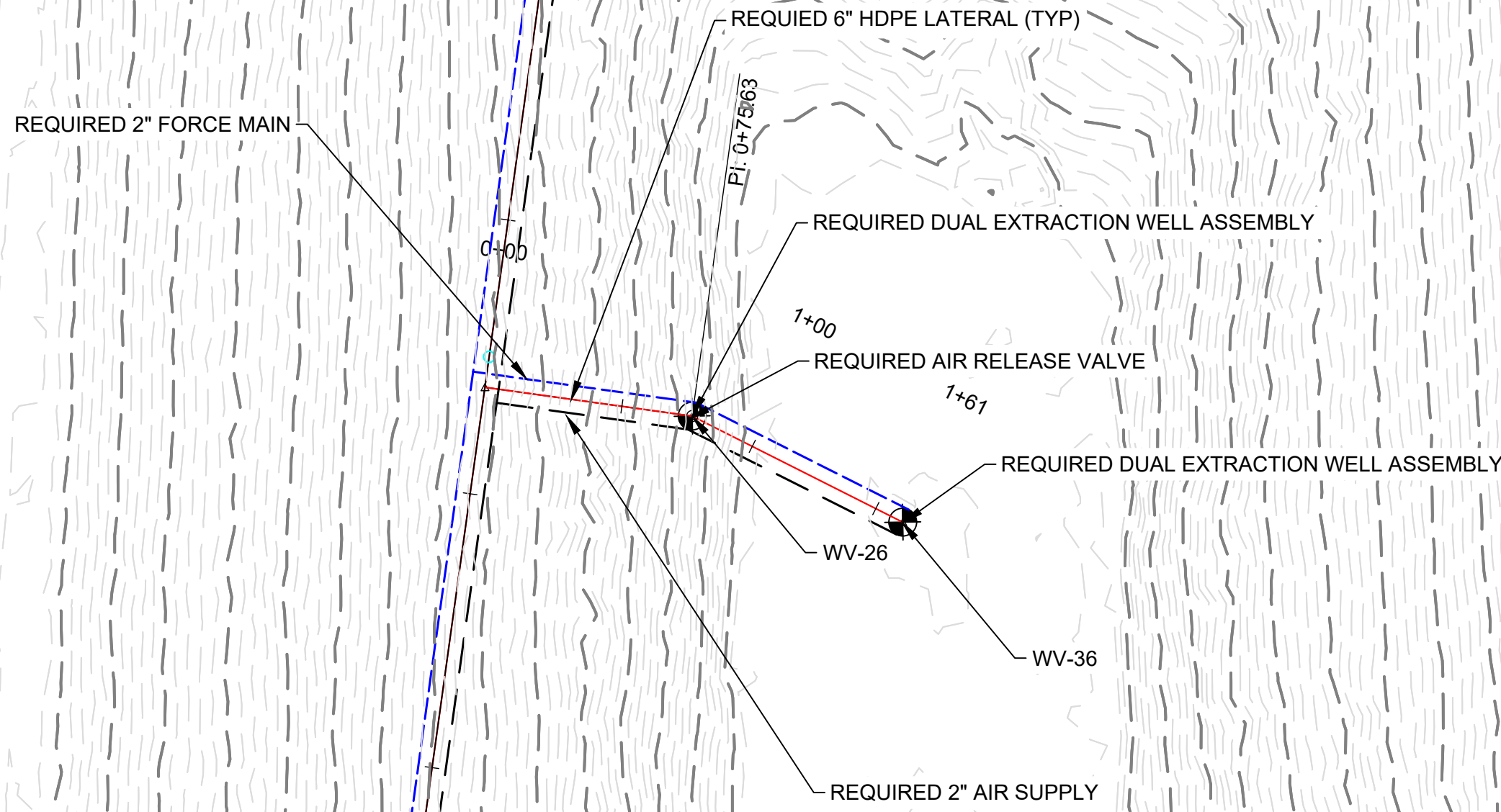
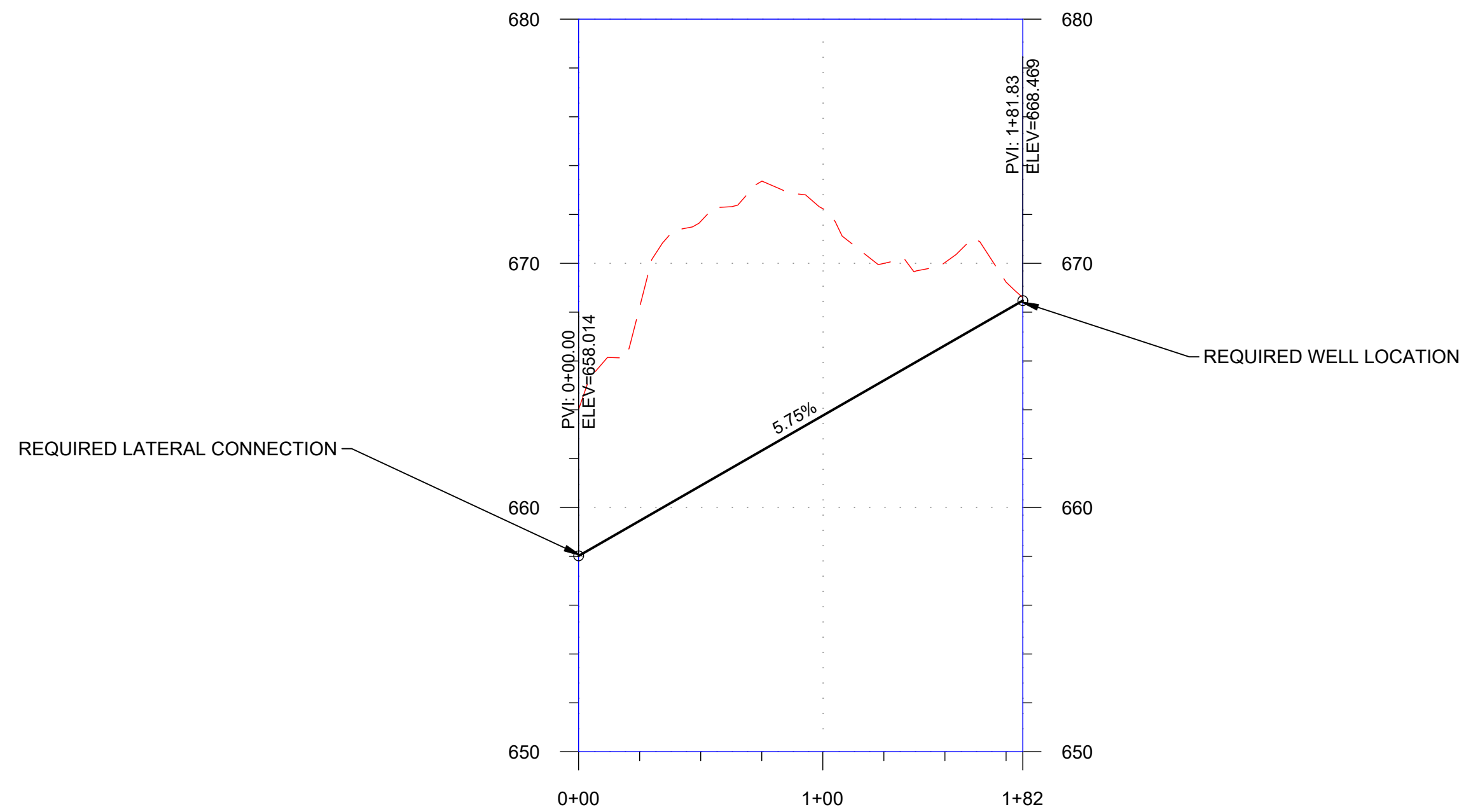
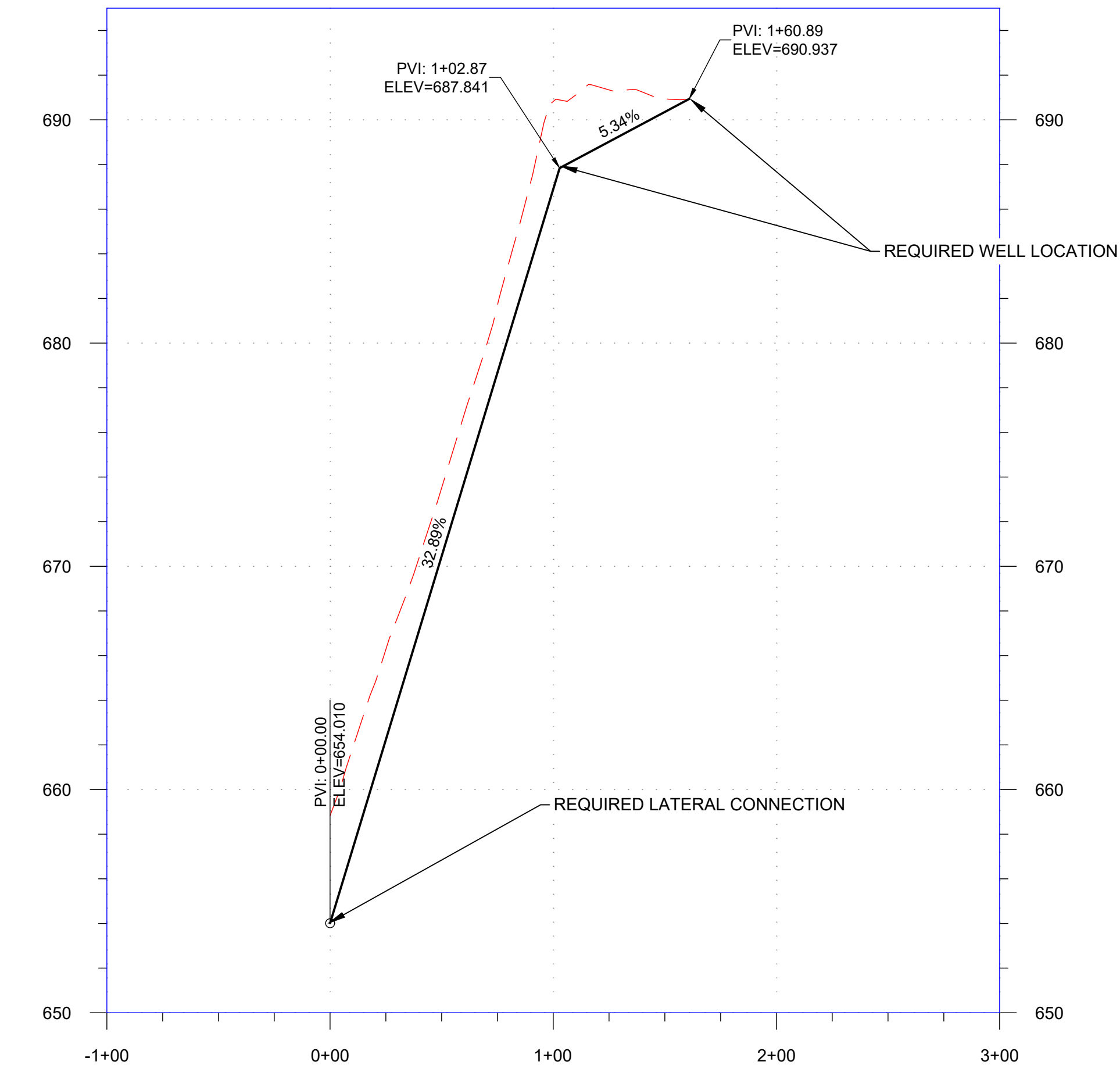
SHELBY COUNTY LANDFILL GAS COLLECTION SYSTEM EXPANSION PROJECT

SHELBY COUNTY, ALABAMA



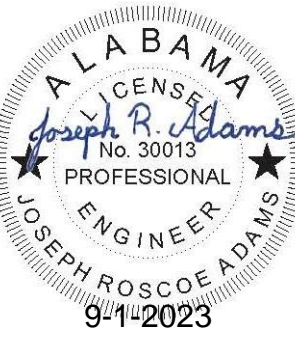
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SHEET NO.	C-305

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V-26, V-32, & V-27
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SHELBY COUNTY, ALABAMA

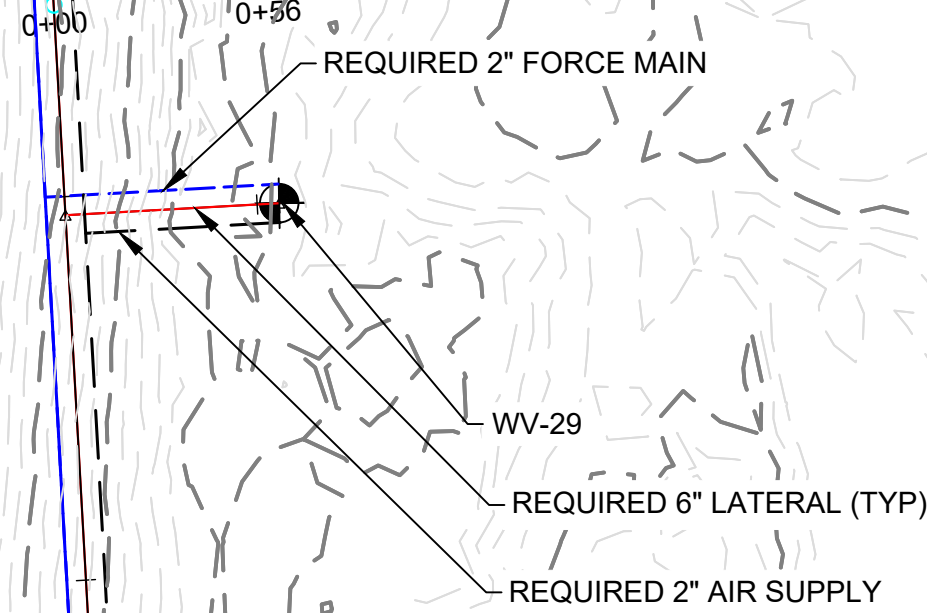
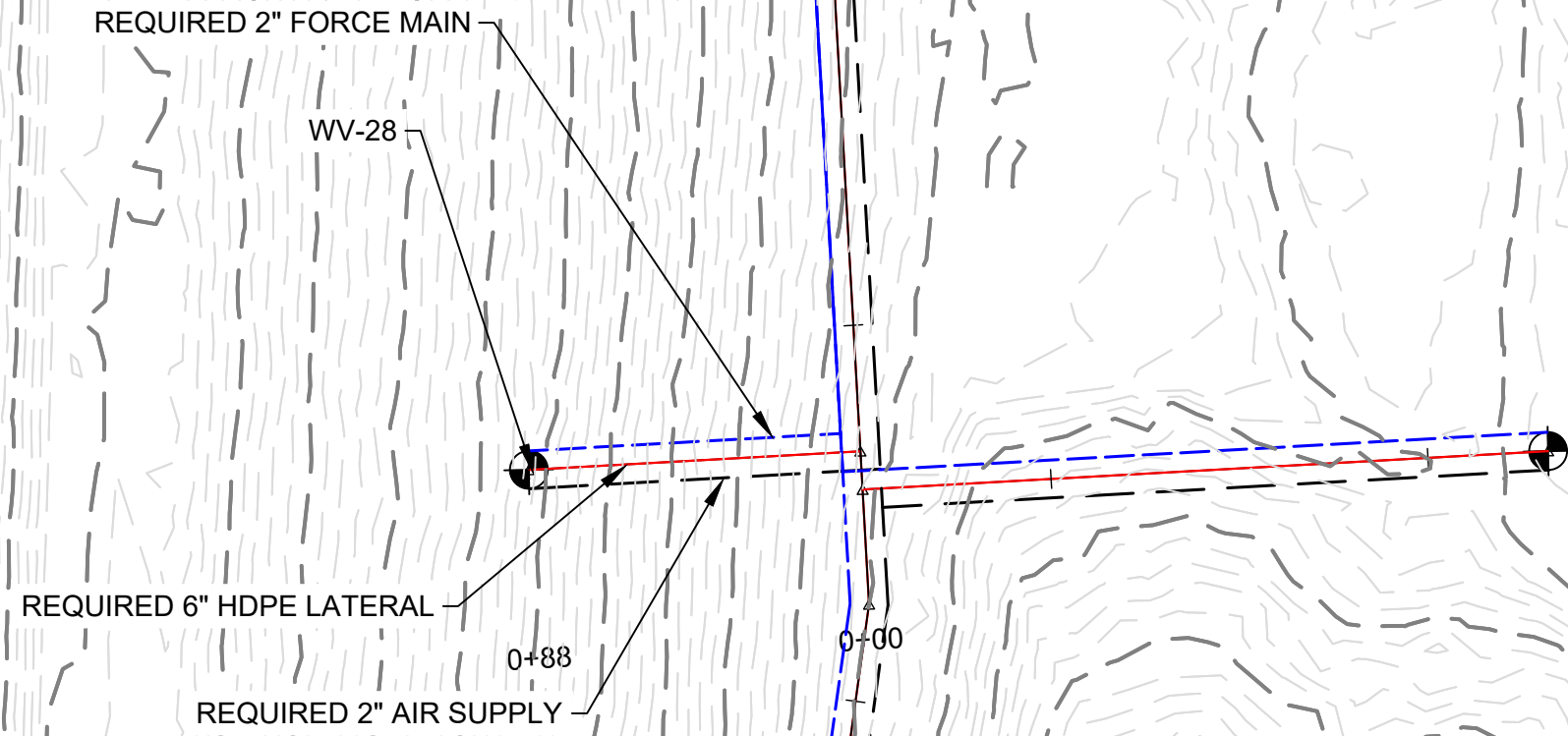
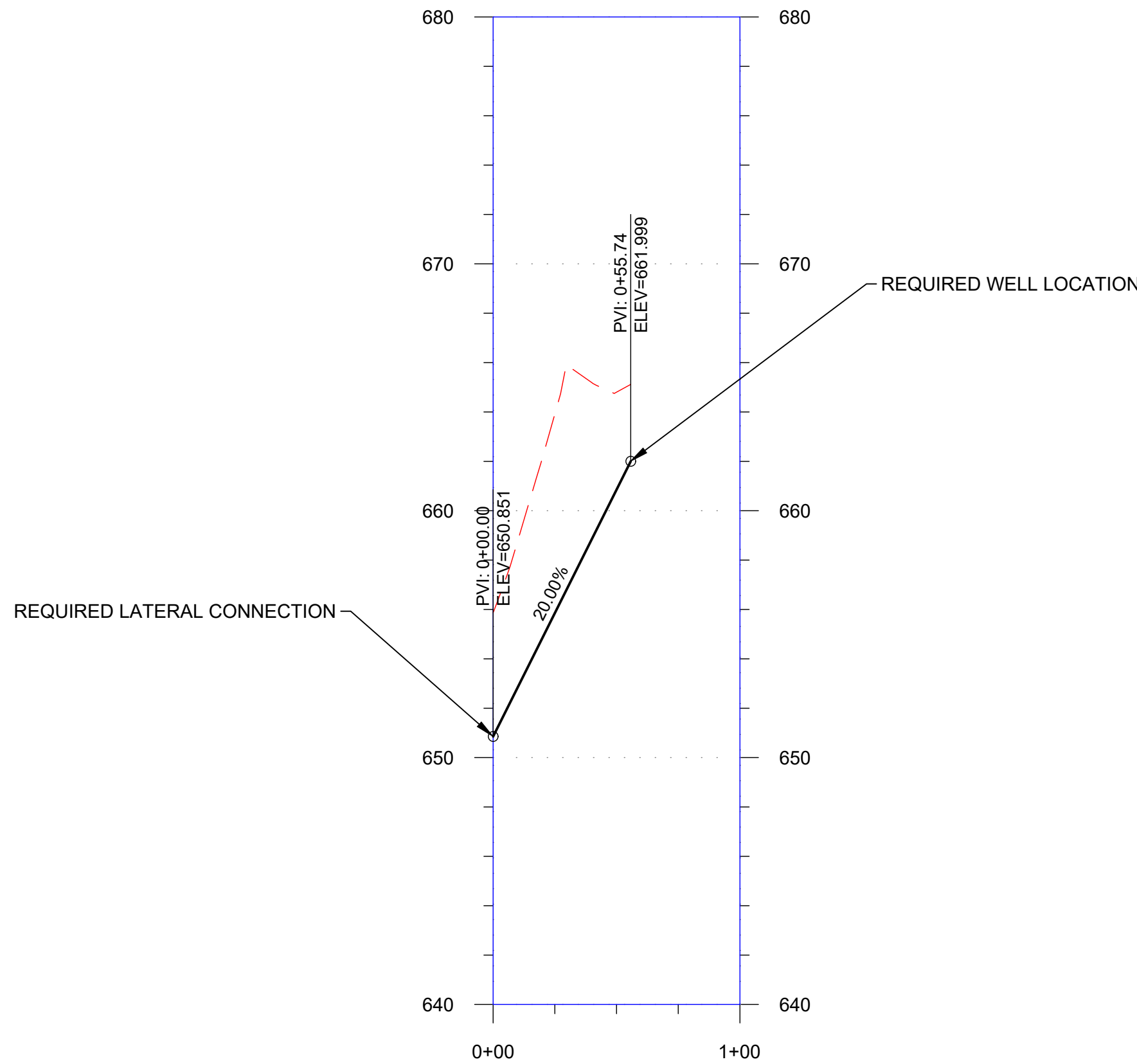
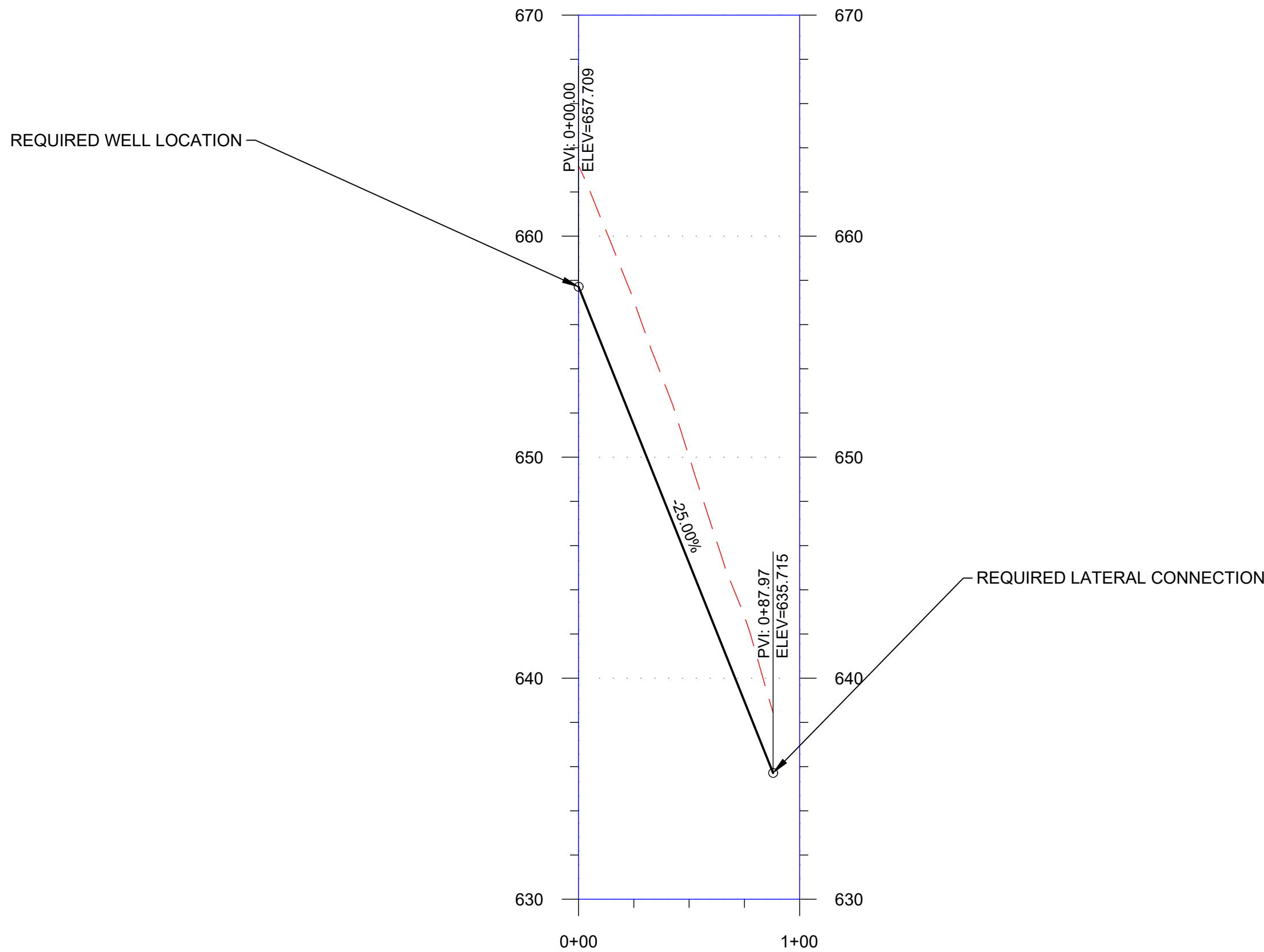


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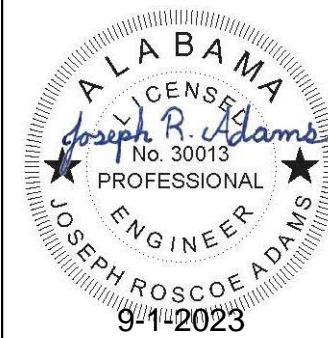
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V-28 & V-29
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SHELBY COUNTY, ALABAMA

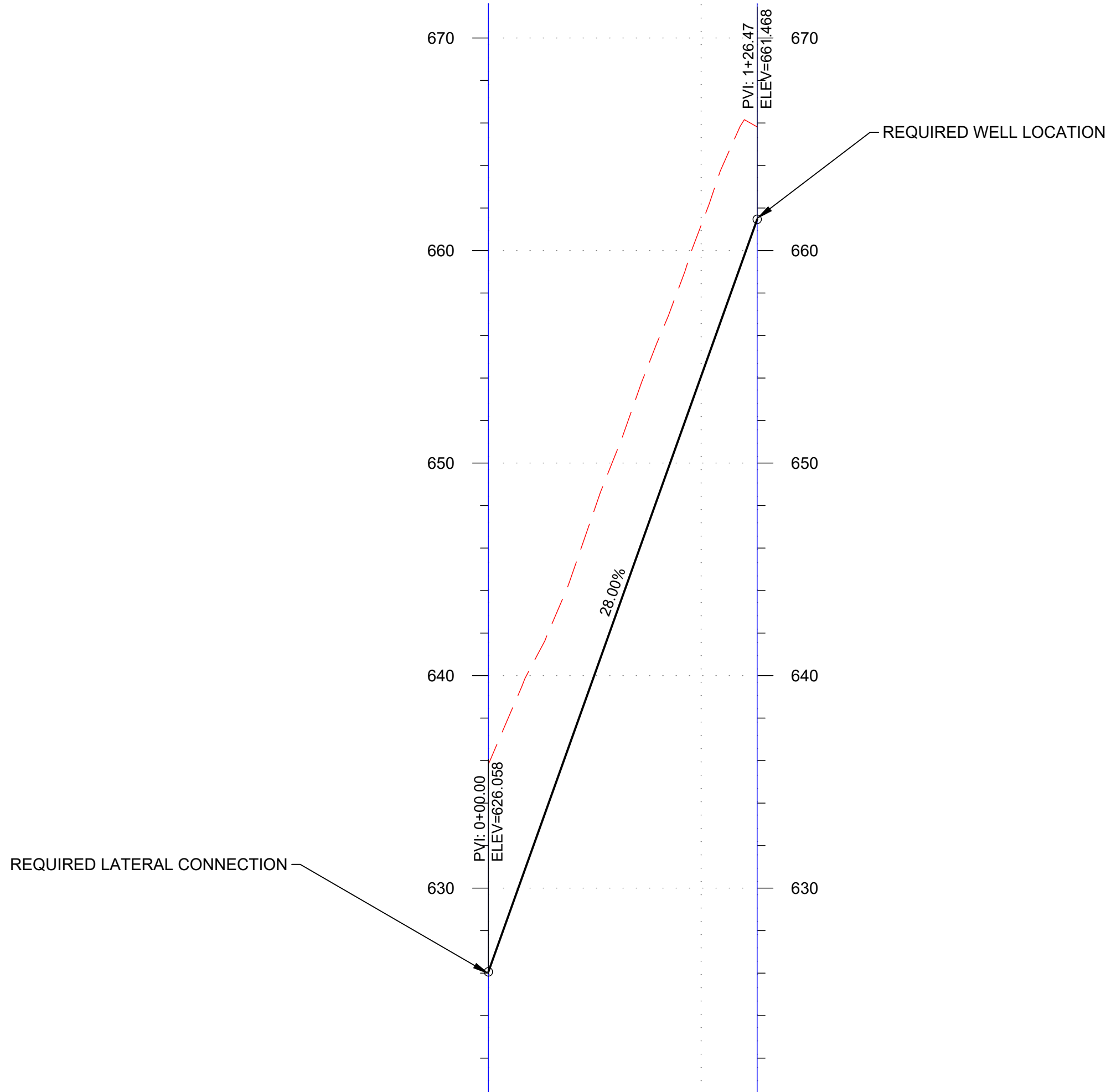
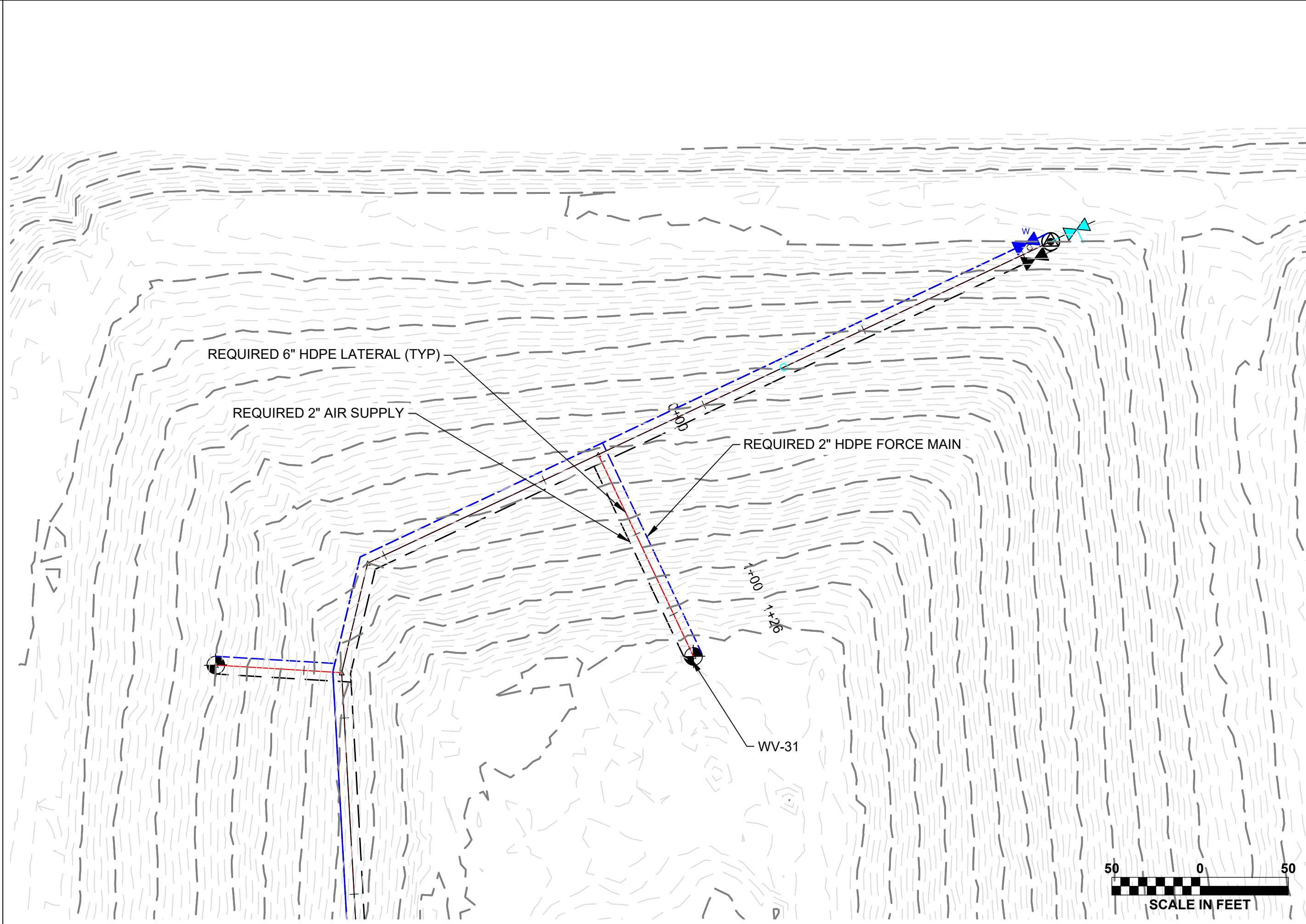
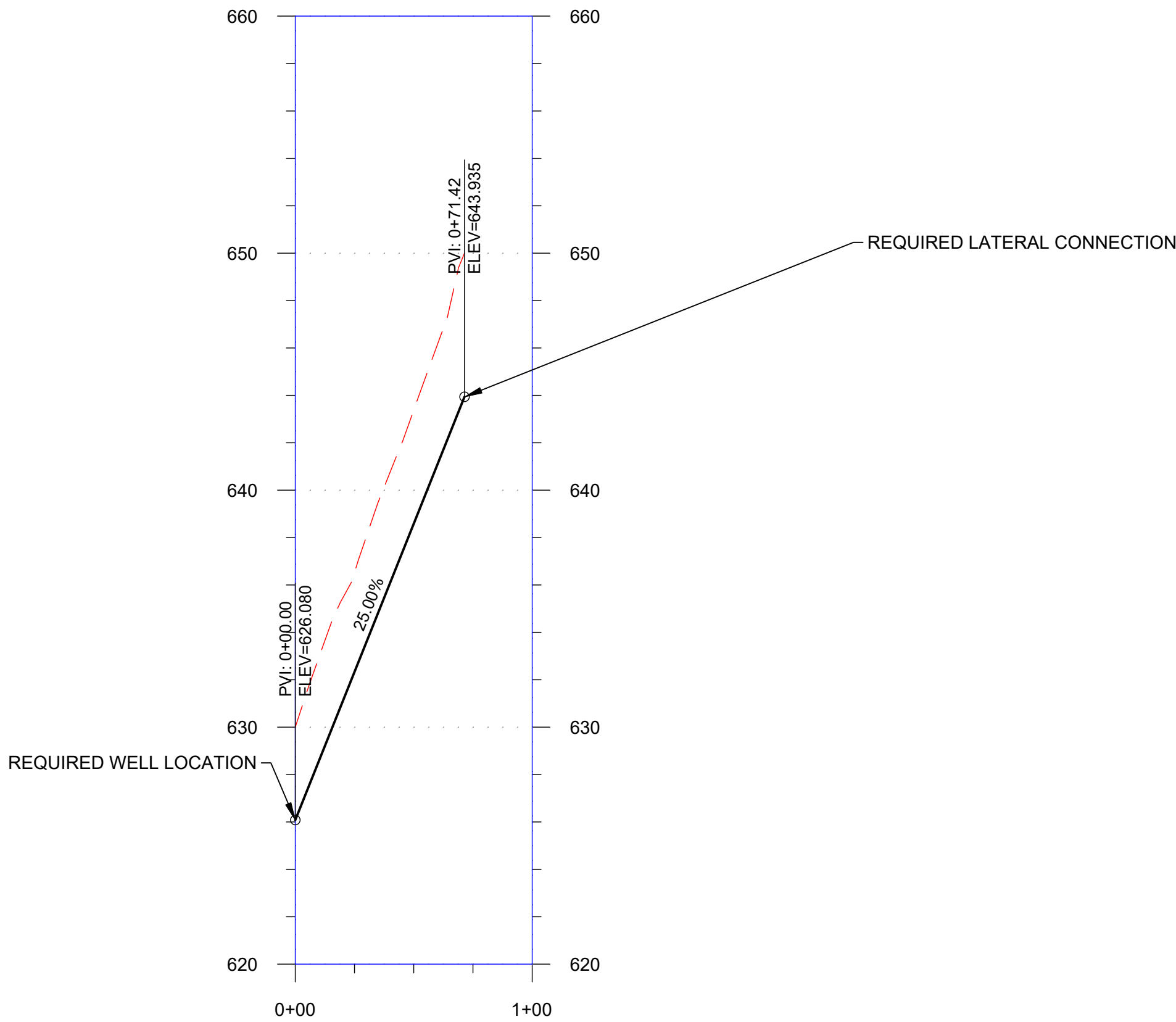
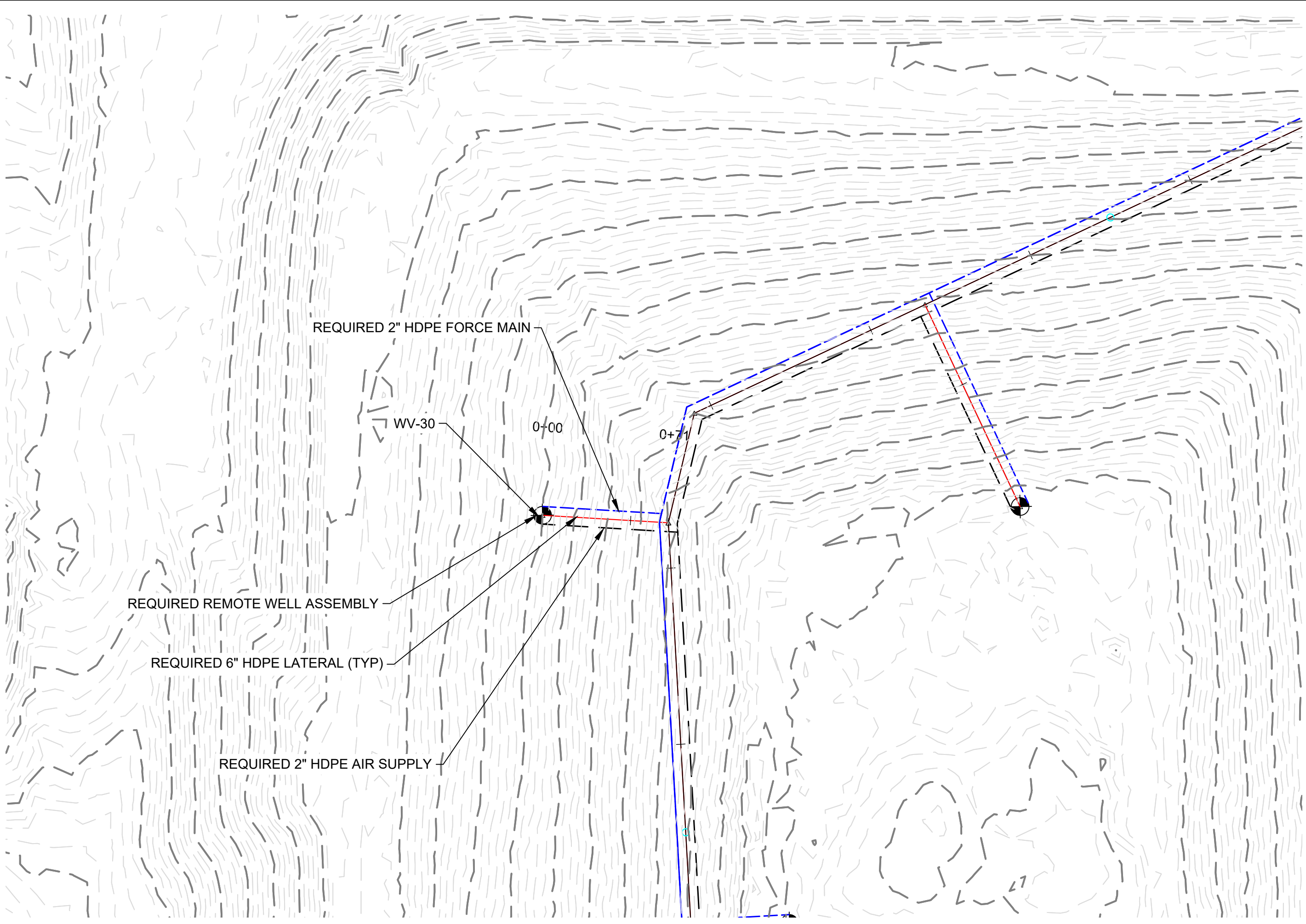


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V-30 & V-31

SHELBY COUNTY LANDFILL GAS COLLECTION SYSTEM EXPANSION PROJECT

SHELBY COUNTY, ALABAMA



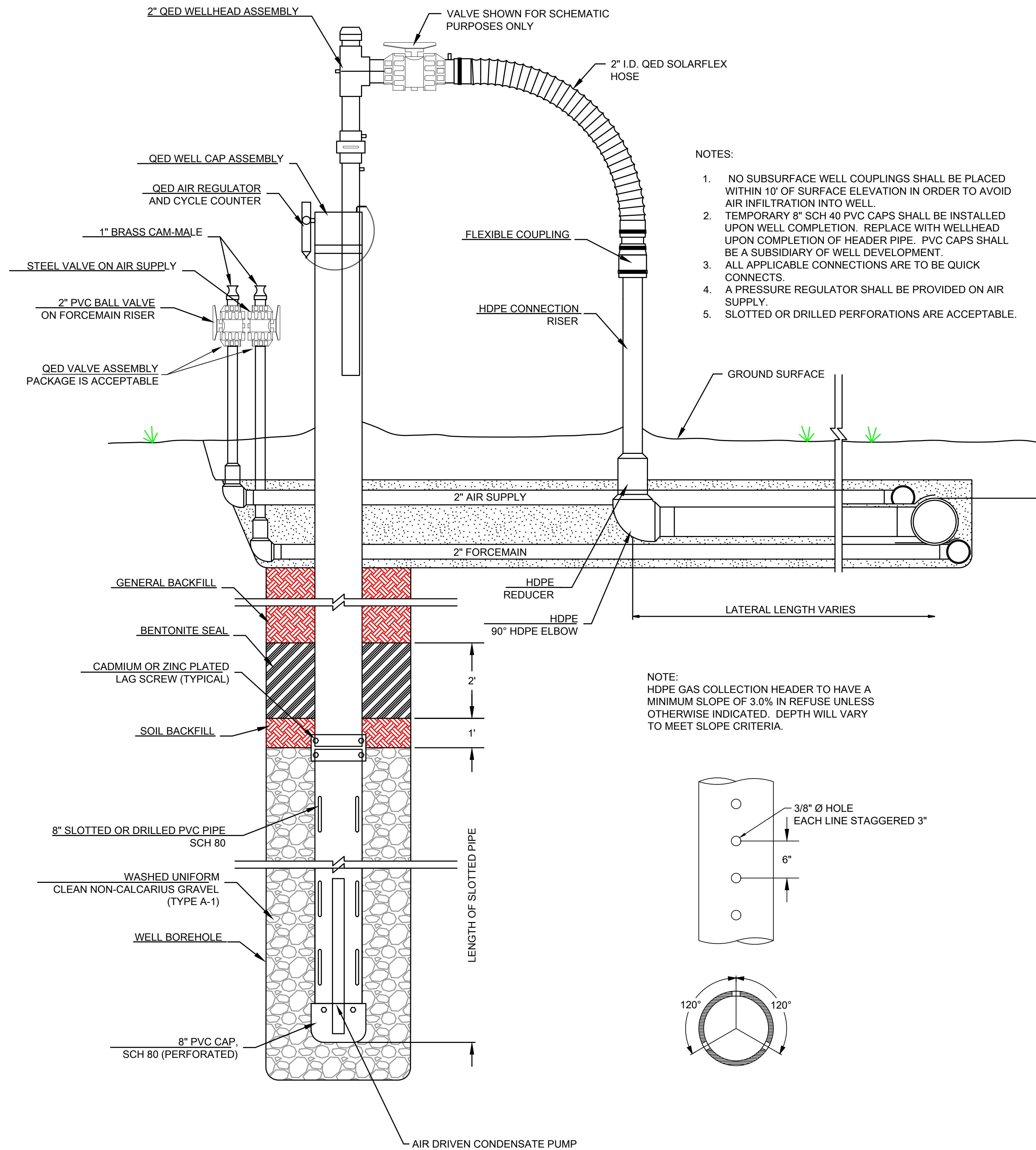
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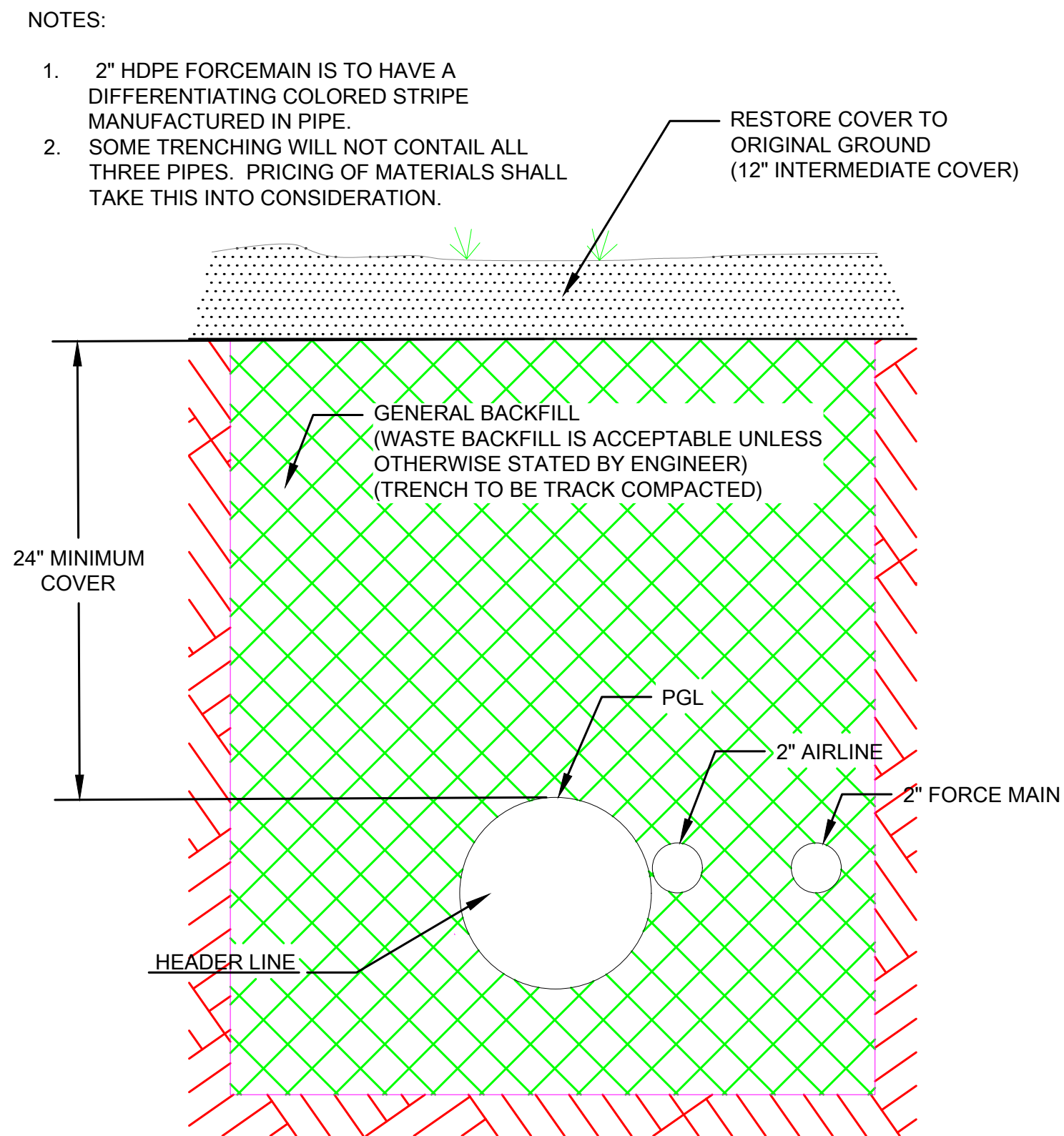
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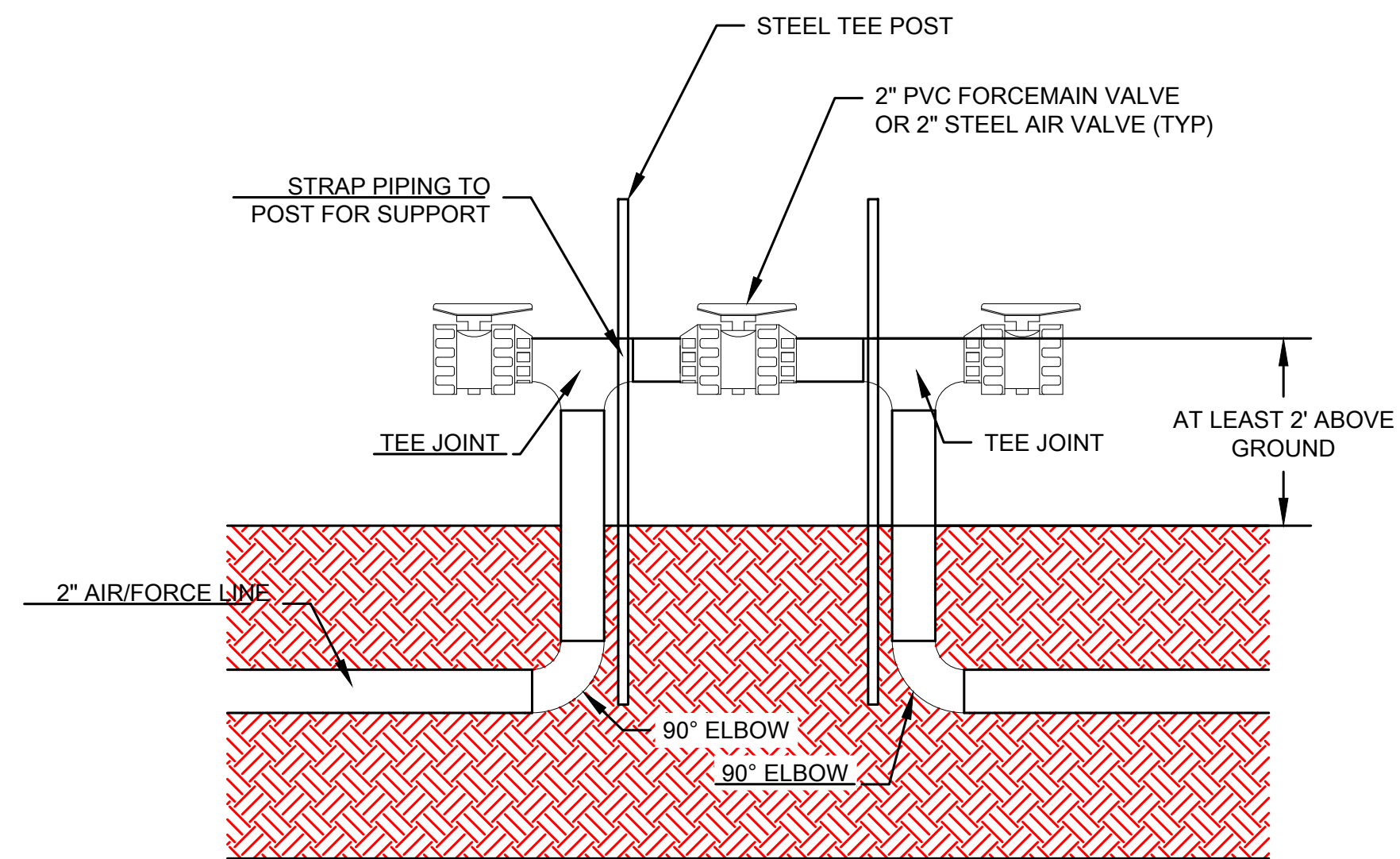
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1 DUAL EXTRACTION WELL ASSEMBLY



2 HEADER TRENCH DETAIL

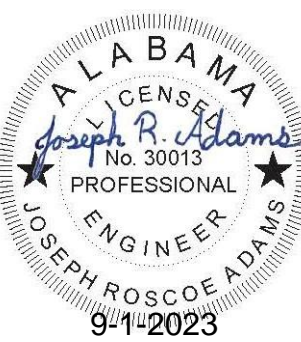


3 AIR & FORCE MAIN VALVE ASSEMBLY



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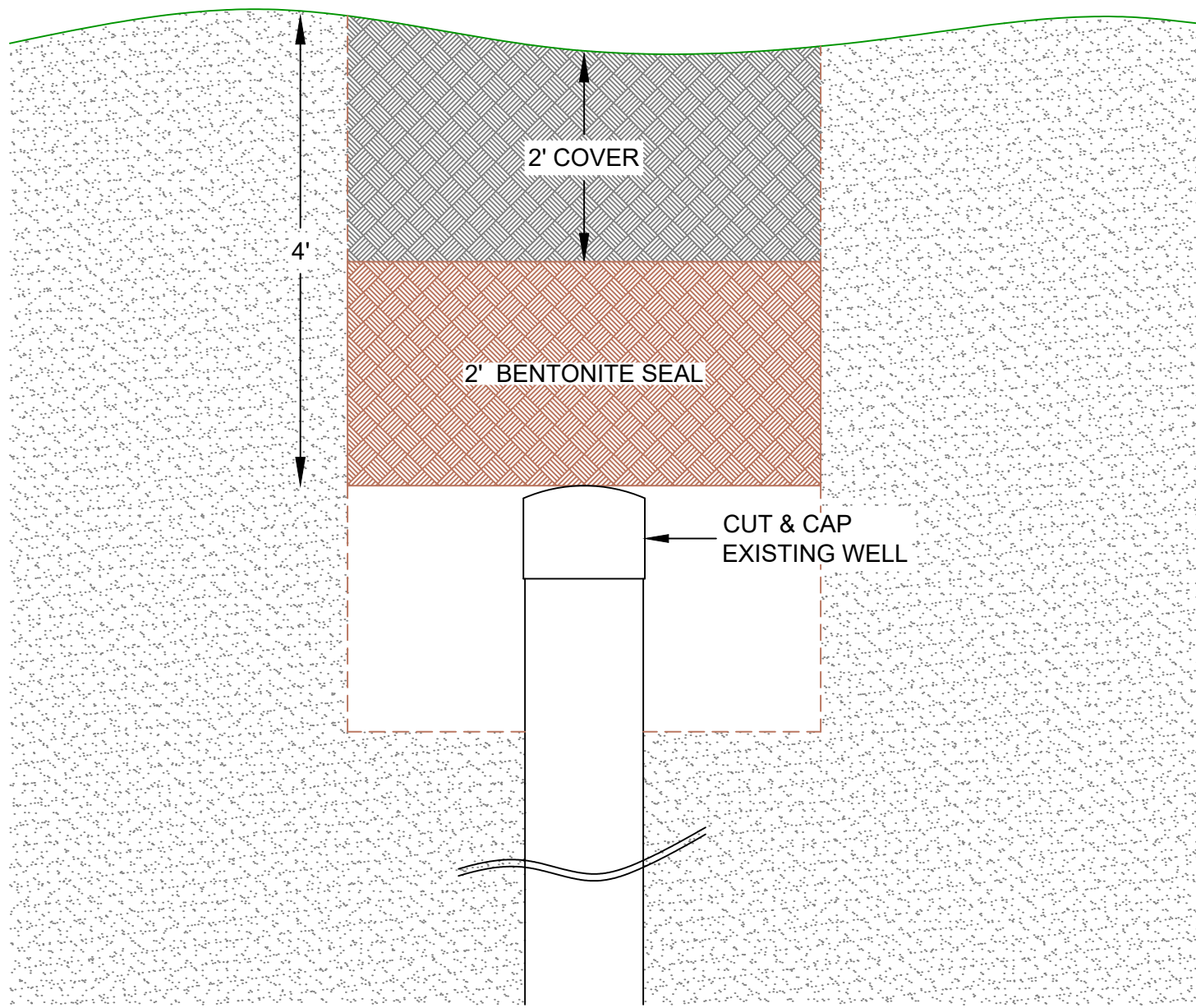
DETAILS
SHELBY COUNTY LANDFILL GAS COLLECTION SYSTEM EXPANSION PROJECT
SHELBY COUNTY, ALABAMA



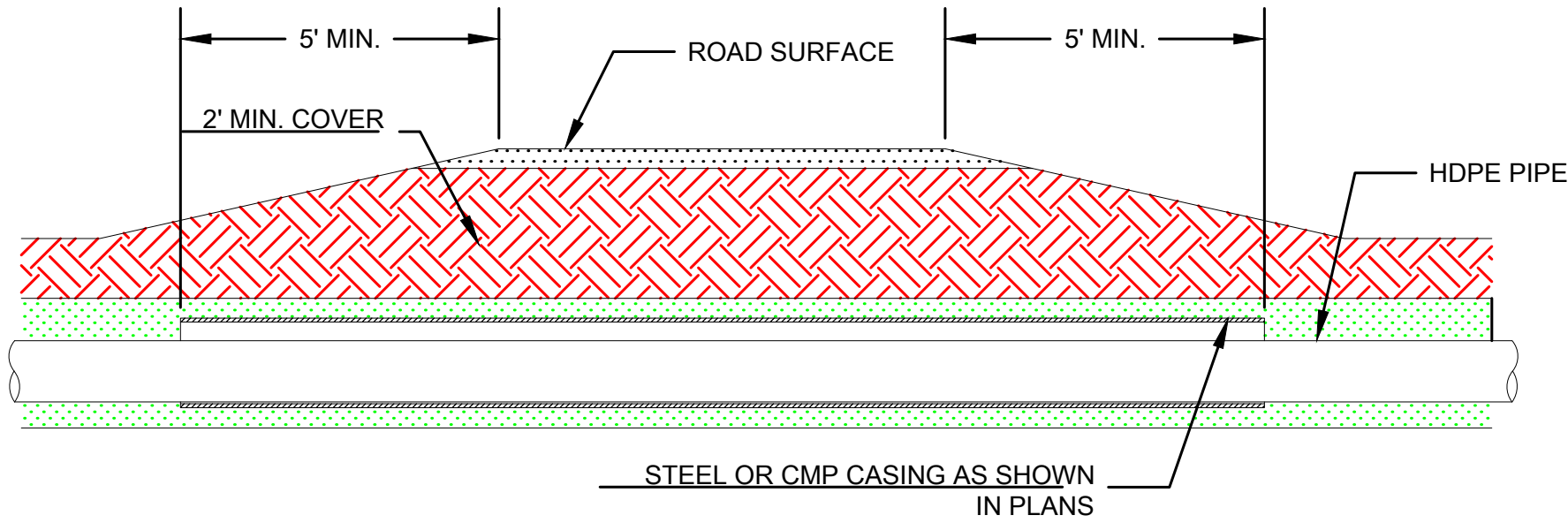
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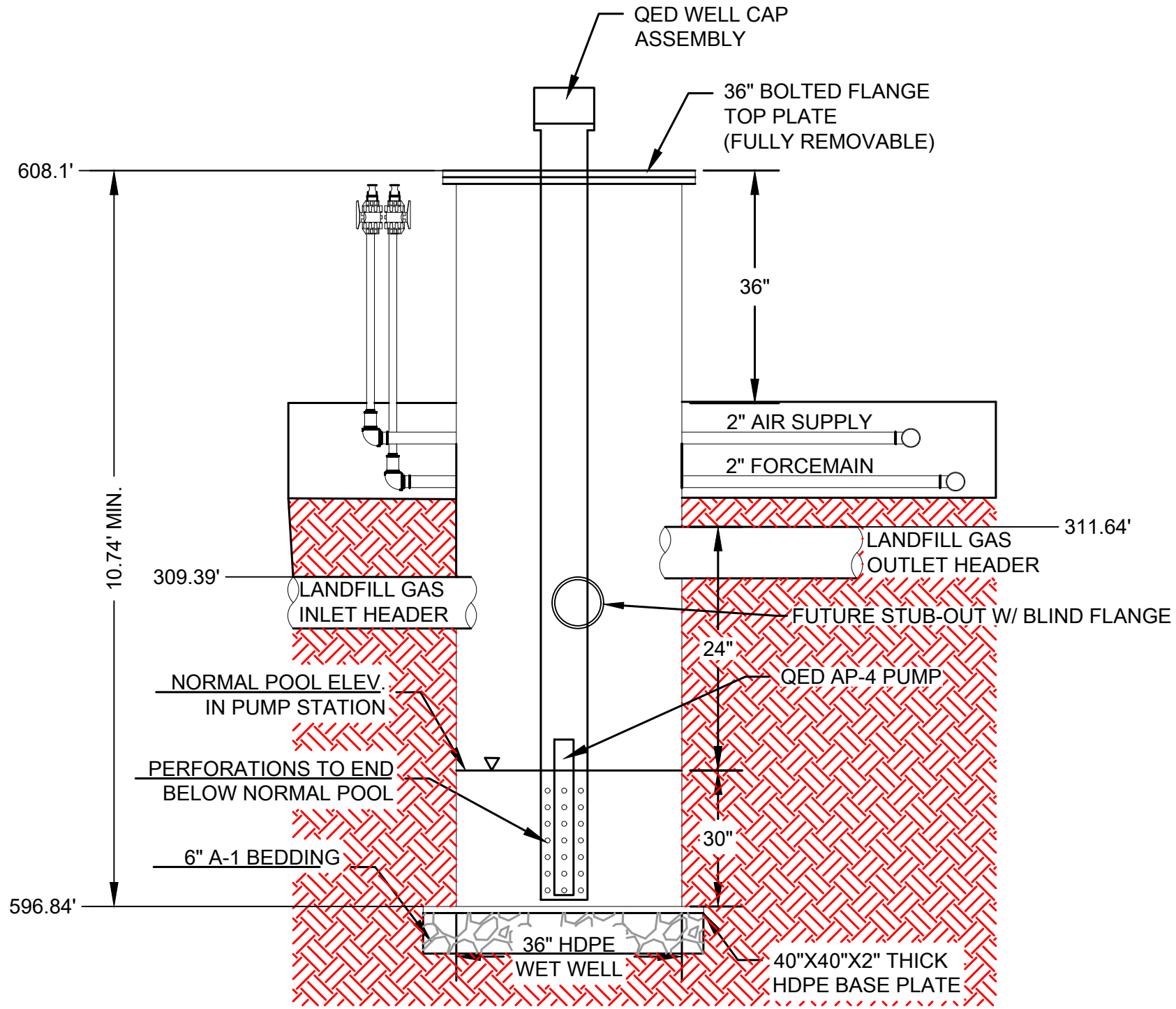
SHEET NO. C-800



4 WELL ABANDONMENT



5 HEADER CASING DETAIL



6 CONDENSATE PUMP STATION

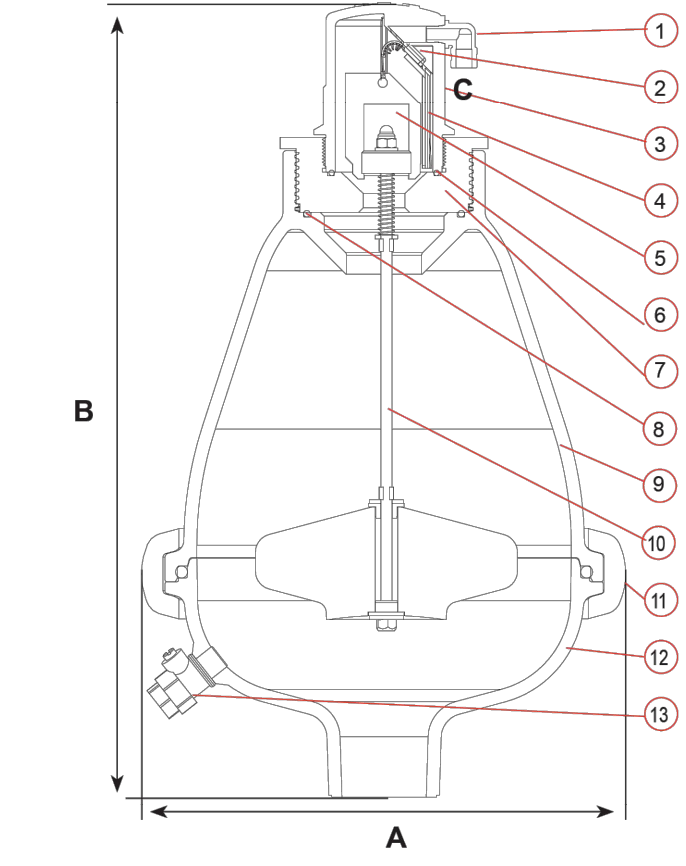
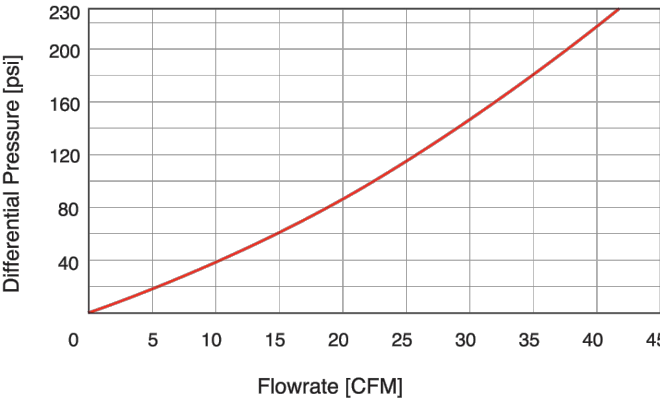
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A.R.I. S-025 AUTOMATIC AIR RELEASE VALVE

PARTS LIST AND SPECIFICATION

No. Part	Material
1. Discharge Outlet	Polypropylene
2. Rolling Seal	E.P.D.M.
3. Body	Reinforced Nylon
4. Clamping Stem	Reinforced Nylon
5. Float	Foamed Polypropylene
6. O-Ring	BUNA-N
7. Adaptor	Acetal
8. O-Ring	BUNA-N
9. Body	Reinforced Nylon
10. Float Assembly	Stainless Steel SAE 316 + Foamed Polypropylene
11. Clamp	Reinforced Nylon + Stainless Steel SAE 316
12. Base	Reinforced Nylon
13. Ball Valve 1/4"	Stainless Steel SAE 316

AIR RELEASE FLOWRATE

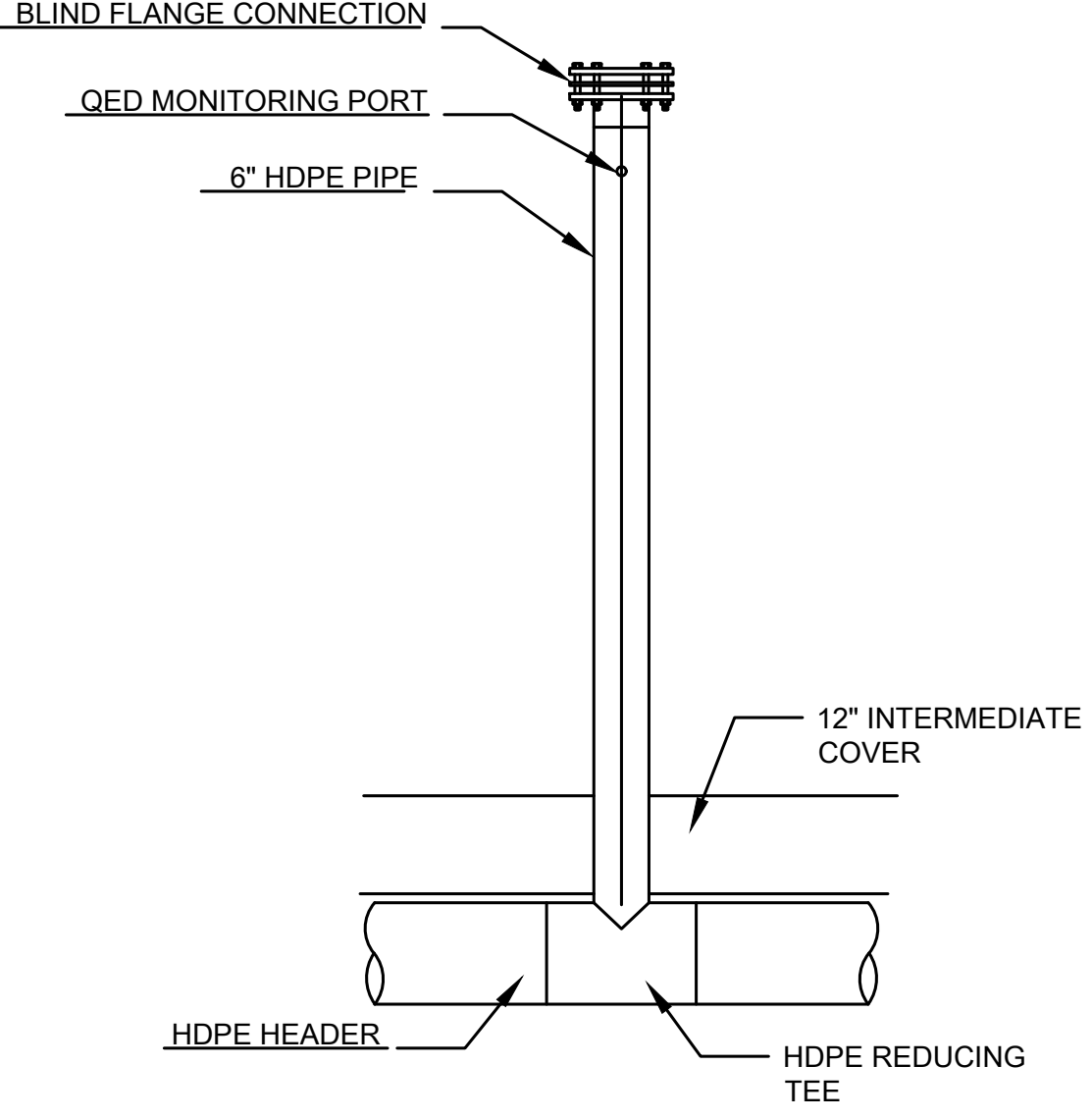


DIMENSIONS AND WEIGHTS

Inlet Size	Dimensions Inch A	B	Connection C	Weight Lbs.	Orifice Area Sq.In.
2" Threaded	9.7	16.7	1/8" NPT Female	8.4	0.018
2" Flanged	9.7	16.9	1/8" NPT Female	9.2	0.018

8 AUTOMATIC AIR VACUUM RELEASE VALVE

NOTE: ACCESS RISERS TO BE PLACED AS INDICATED IN PLANS & AT BOTH ENDS OF ALL HEADER VALVES.

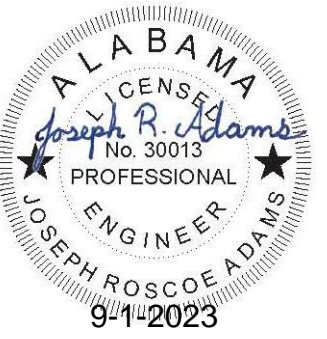


9 HEADER ACCESS RISER



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SHELBY COUNTY, ALABAMA

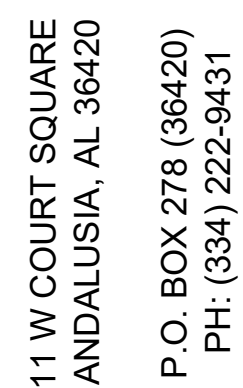


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1. NO SUBSURFACE WELL COUPLINGS SHALL BE PLACED WITHIN 10'-0" OF SURFACE ELEVATION TO AVOID AIR INFILTRATION INTO WELL.

3. ALL APPLICABLE CONNECTIONS ARE TO BE QUICK CONNECTS.

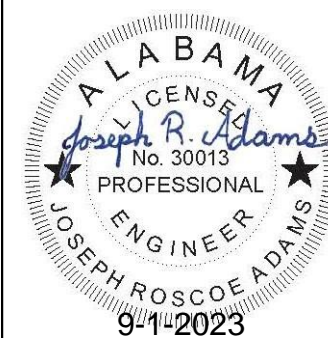
4. A PRESSURE REGULATOR SHALL BE PROVIDED ON THE AIR SUPPLY.



DETAILS

SHELBY COUNTY LANDFILL GAS COLLECTION SYSTEM EXPANSION PROJECT

SHELBY COUNTY, ALABAMA



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PROJECT NO: R070122586

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