RMR INVESTIGATION

HAR-US 68/SR 31 Roundabout
PID 121008
City of Kenton, Hardin County, Ohio

By:

Brett Allerding Curfman M.S., Environmental Project Manager Edward Council Ph.D., Principal/Technical Director

Submitted by:

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Department of Transportation

May 27, 2025

SIGNATURE PAGE

GENERAL INFORMATION

Project C-R-S / Name:	HAR-US 68/SR 31 Roundabout	PID:	121008	District:	01
Report Author(s):	Brett Allerding Curfman, Environmental Project Manager				
Report Author(s):	Edward Council Ph.D., Principal/Technical Director				
Affiliation:	Clune Consulting Services				

CERTIFICATION *(Must be acknowledged by Prequalified Individual)*

☒ I certify that I have personally examined and am familiar with the information in this document and all attachments, and that the data collection was supervised by an individual(s) prequalified to conduct the RMR for ODOT or by trained ODOT Environmental staff. Based on my inquiry of those persons immediately responsible for obtaining the information contained herein, I believe that the information has been collected in accordance with the ODOT RMR Manual current at the time of this submittal, and is true, accurate, and complete.			
Name:	Brett Allerding Curfman	Signature:	Brett Allerding Curfman
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*The Geophysical Survey Report and RMR Assessment are available in the EnviroNet Project File.

1. EXECUTIVE SUMMARY

Clune Consulting Services (CCS) completed a Regulated Materials Review (RMR) Investigation in conformance with the Ohio Department of Transportation's (ODOT) RMR Manual (February 2023) for the HAR-US 68/SR 31 Roundabout project.

The City of Kenton, in partnership with the Ohio Department of Transportation, has initiated a roadway improvement project on U.S. Route (U.S.) 68 (Detroit Street) and State Route (SR) 31 (Main Street) in the City of Kenton, Hardin County, Ohio.

- The project will construct a roundabout on U.S. 68 near the intersection of Perry Street. SR 31 (Main St) will be rerouted to the proposed roundabout, with a stop-controlled T-intersection east of the roundabout. Additional work includes sidewalk installation, driveway approach replacements (as needed), pavement marking updates, and drainage. While the approach slab on the HAR-US 68-9.40 structure will be replaced, no structural work will take place on either bridge. Permanent and temporary right-of-way acquisition will be required to complete this work.
- In addition, this project will include signal replacements at the Franklin and Columbus Street intersections with Detroit Street. No right-of-way acquisition will be required for signal work.

Additional roadway right-of-way will be required in order to construct the roundabout, resulting in a total take of RM-008. Deep excavation will be necessary for associated drainage features related to roundabout construction. Construction is scheduled to begin in August 2026 and take one year to complete.

The following property was recommended for an RMR Investigation following the completion of the RMR Screening on September 23, 2024, and RMR Assessment on January 7, 2025:

Table 1: RMR Investigation Property

Project C-R-S/Name:	HAR-US 68/SR 31 Roundabout	PID:	121008
Property ID# & Tenant	Tenant/Address	Current Land Use	
RM-008; Mark Tice	Mark Tice; 370 S Main St	Vacant Lot	

The RMR Investigation site sampling was conducted on April 4, 2025, and consisted of six soil borings. Each boring was drilled to a depth of 15 ft below ground surface. One soil sample from each boring was analyzed for Total Petroleum Hydrocarbons (TPHs – gasoline range organics (GROs), diesel range organics (DROs), and oil range organics (OROs)), Volatile Organic Compounds (VOCs), and Semi-VOCs. Information revealed during the RMR Investigation was used to reach the following recommendations:

Table 2: Summary of Investigation Findings & Recommendations

Project C-R-S / Name:	HAR-US 68/SR 31 Roundabout	PID:	121008	Project City	Kenton
Property ID#, Tenant Name & Address	Findings			Next Step Recommendations	
RM-008; Mark Tice; 370 S Main St	The soil samples from SB-4 and SB-6 tested above the VAP Standard/Action Level for commercial/industrial use for one parameter (1-Methylnaphthalene). Additionally, SB-5 is located near the potential UST area identified in the geophysical report. Excavated materials may not be reused on the project and must be disposed of using the appropriate procedures.			RM Plan Note (PCS, hydraulic lift, and Underground Storage Tank (UST) removal) is recommended for the western parcels only.	

2. INTRODUCTION

The proposed project will construct a roundabout on U.S. 68 near the intersection with Perry Street in the City of Kenton, Hardin County, Ohio. SR 31 (Main St) will be rerouted to the proposed roundabout, with a stop-controlled T-intersection east of the roundabout. See Project Mapping in Appendix A and Project Plan Sheets in Appendix D. An RMR Screening was completed on September 23, 2024, and an RMR Assessment was completed on January 7, 2025.

On January 29, 2025, ODOT OES recommended an RMR Investigation of RM-008 and a geophysical survey on the two largest parcels where a gas station was previously located. In addition, OES requested six (6) soil borings be distributed evenly across the property where construction impacts are anticipated.

The property described in Table 3 (below) was investigated as part of the RMR Investigation effort and is considered high-risk land use. RM-008 is comprised of five (5) parcels that are currently vacant (gravel covers the majority of the property). Based on historic records, a lumber yard/sawmill and associated businesses were located across the entirety of the property from at least 1888 to 1955. Additionally, an auto service sales/service station was present on the east end of the property from 1946 to 1959 and a gas station was present on the west end of the property from at least 1948 to 1966. A total take of RM-008 and excavations greater than 6 feet deep are proposed as part of this project.

Table 3: RMR Investigation Properties Rationale for Investigation

Project C-R-S / Name:	HAR-US 68/SR 31 Roundabout	PID:	121008	Project City	Kenton
Property ID#	Tenant Name & Address	Proposed Take Acquisition		Rationale for Investigation	
RM-008	Mark Tice; 370 S Main St	Total Take		The historical land use of this property is considered high-risk. In addition, a total take of the property and deep excavation on the property are proposed to construct the project.	

The property is located on the south-central side of the City of Kenton. Figure 1 – USGS Topographic Map (Appendix A) illustrates the location of the property. Figure 2 – Property Diagram (Appendix A) illustrates the property boundaries used for this RMR Investigation.

3. PROPERTY HISTORY

3.1 RM-008 – Mark Tice; 370 S Main St

RM-008, owned by Mark Tice, consists of five (5) parcels located north of Perry St and between U.S. 68 (S Detroit St) and State Route 31 (S Main St). The current land use is vacant, primarily a gravel lot. Semi-trucks park on the property, but without the permission of the property owner. Documentation obtained from the Hardin County Recorder's website indicates that portions of the property have been owned by Mark Tice since 1998, and the other portions were purchased in various years thereafter.

An RMR Screening was conducted for this project in September 2024. Based on this report, ODOT recommended an RMR Assessment due to the proposed total take of the property. The RMR Assessment was completed and approved on January 7, 2025.

The RMR Assessment reviewed historic and current information, historic mapping (including Sanborn Fire Insurance Maps), interviewed property representatives and local agencies, and conducted a reconnaissance of the property. ODOT recommended the completion of a geophysical investigation and an RMR Investigation based on the following:

- A lumber and log yard/planing mill were present across the entirety of RM-008 from 1888 to 1955. In 1911, a 'box factory' was noted on the property. From 1892 to 1897 the associated business was titled 'The Scioto Furniture Co.' Finally, in 1888, the property use returned to a planing mill and sawmill.
- A gas station was present on the west side of the property from 1948 to 1956. Residences were present on the west side of the property from at least 1946 to 1959.
- An auto sales facility (Old Studebaker Dealership) was located on the east side of RM-008 from at least 1948 to 1959. A NAPA Auto Parts store was located on the east side of the property from 1966 to 2006, before being demolished.

The goal of the geophysical investigation was to locate the three (3) USTs documented in the Sanborn maps and determine if there are other USTs or other similar hazards which may be present on the property (see Section 5.3).

4. PHYSICAL SETTING, GEOLOGICAL & HYDROGEOLOGIC INFORMATION, RM UNDERSTANDING

4.1 Physical Setting

The topography of the property and surrounding area is relatively flat, with elevations ranging from 950 to 955 feet above mean sea level. Drainage from the area flows into the Scioto River (located less than 50 feet north of RM-008) via underground drainage systems and surface flow. A USGS Topographic Map is provided in Appendix A.

4.2 Geologic and Hydrogeologic Information

A general soil profile for RM-008 was obtained from the USDA Web Soil Survey website. See USDA Soil Maps in Appendix A.

The soil series present on RM-008 is listed and described below:

- OdA: Ockley-Urban land complex (0 to 2 percent slopes)

Drainage from the area flows into the Scioto River (located less than 50 feet north of RM-008) via underground drainage systems and surface flow. Saturated soils were encountered in Soil Boring #1 at almost 15 feet. See Field Borehole Logs in Appendix B.

4.3 RM Transport and Exposure

Considering the current land use of RM-008 and the impervious areas and soil types at and around the site, chemical transport into the Scioto River and surrounding groundwater may occur after rain events via surface water conveyance into surface sewer drains and via erosion within the subsurface soils.

5. FIELD ACTIVITIES AND ANALYTICAL PROCEDURES

5.1 Investigation Overview and Data Gaps

This RMR Investigation was limited to soil borings and soil sampling. All recommended borings were completed within the pre-defined locations. Furthermore, all sampling and analysis were completed as planned. Therefore, the conclusions and recommendations within this RMR Investigation did not need to fill any gap in data.

5.2 Field Condition Documentation and Overview

The field investigation was conducted on April 4, 2025, by Clune Consulting Services supporting staff and the drilling company "A Drilling Company, LLC" staff. No precipitation occurred on the day of the survey. The weather was sunny to partly cloudy with an average temperature of 60° F. See Field Borehole Logs in Appendix B.

5.3 Geophysical Survey Summary

A geophysical survey was conducted as part of this investigation and is included in the EnviroNet project file. The report suggests that UST targets may still be present along the north and northwestern sides of the former service

station, including potential USTs and related infrastructure such as a refueling island. A buried hydraulic lift casing was also identified, possibly from within the former service station building.

Ground Penetrating Radar anomalies were detected east of the service station and may indicate remnants of building foundations, roads, utilities, and sewer systems from past furniture and lumber milling operations on the site.

5.4 Sampling Effort

5.4.1 Soil Sampling

Drilling activities were conducted on April 4, 2025, by A Drilling Company, LLC (i.e. Driller). The Driller used an ATV-mounted geoprobe drill rig to advance the geoprobe borings. Drilling consisted of hydraulically advancing a 2-inch outer diameter stainless-steel rod attached with pre-cleaned and disposable 4-ft long, clear PVC, core-collection-sleeve. These PVC sleeves were located at the front of the probe rods. The PVC sleeves were new and were not re-used. Each boring was drilled down to 15 ft Below Ground Surface.

Soil samples were collected at 2-foot intervals. After retrieval from the drill rod, the PVC sleeves were opened by the Driller personnel up-wind of the drill rig engine exhaust. Next, the field geologist screened the soil after the sleeves had been opened. The field screening utilized a calibrated photo-ionization detector (PID). Little to no organic vapors (i.e. ~10 ppb to <1.0 ppb) were detected while the soils were in the opened PVC collection sleeves. Selected soils from each sleeve were removed for chemical analysis and were placed in samples jars and then put on ice.

Another aliquot of soil from the sleeve was placed in a zip-lock bag and allowed to reach ambient temperature. After the sample had reached ambient temperature, PID measurements were retaken and recorded in the field log book. The soil sample interval per boring with the highest PID measurement was collected for chemical analysis.

The field geologist used a ppbRea 3000 PID (serial number 594-907547) to field screen all of the soil retrieved from the boreholes for organic vapors. The PID was equipped with a 10.6 eV lamp with an effective range for detecting organic vapor between 0 ppb to 10,000 ppm. The detector was calibrated within 24 hours prior to beginning the drilling activities and was rechecked the morning before the drilling began. A sharpie marker was also periodically used during the field activities to confirm the PID was functional. After the soil had been initially screened for organic vapors, they were lithologically logged. All field data was recorded in a field notebook.

Soil sample collection included using decontaminated equipment to transfer the selected sample material to the laboratory supplied sample jars. Each sample suite consisted of two 4-ounce jars, pre-cleaned with Teflon-lined lids. Samples were packed so as to minimize air space. Immediately following collection, each soil sample was placed on ice in a cooler.

All soil samples submitted to ALS Laboratory were held under chain-of-custody procedures. See project mapping in Appendix A, Field Borehole Logs in Appendix B, and Field Chain-of-Custody Record in Appendix C.

5.4.2 Groundwater Sampling

Groundwater sampling was not conducted as part of this investigation.

5.4.3 Investigation-Derived Waste (IDW) Management

All waste generated during the RMR Investigation was managed and disposed of according to *ODOT's Revised Guidance Regarding the Management of Investigation-Derived Waste.*

Soil sample collection included using decontaminated equipment to transfer the selected sample material to the laboratory supplied sample jars. Each sample suite consisted of two 4-ounce jars, both pre-cleaned with Teflon-lined lids. Samples were packed so as to minimize air space. Immediately following collection, each soil sample was placed on ice in a cooler. ALS Environmental properly disposed of the soil samples within 30 days after testing.

5.5 Analytical Methods, Results, and Comparison to Regulatory Levels

5.5.1 Soil

The full range of TPHs were analyzed per EPA SW Method 8015; the VOCs were analyzed per EPA SW Method 8260; and the semi-VOCs were analyzed per SW Method 8270. Per the *Report of Laboratory Analysis*, ALS Work Order: CC2502268 multiple analytical parameters were detected above the various laboratory method reporting limits.

The results from two soil samples (Soil Borings #4 and #6) tested above the VAP Standards/Action Levels commercial/industrial use for one parameter (1-Methylnaphthalene), while the other four samples tested below all of the VAP Standards/Action Levels. Laboratory Analytical Reports are presented in Appendix C.

Table 4A: Soil Sampling Analytical Results Summary

Boring ID	Sample Depth (ft)	Sample Collection Date	Parameter	Result (mg/kg)	Regulatory Action Level (mg/kg)	
					Residential	Commercial /Industrial
Soil Boring (SB) 1	8'-12'	April 4, 2025	TPH C6-C12	BDL	1000*	1000*
			TPH C10-C20	**23.8**	2000*	2000*
			TPH C20-C34	**48.4**	5000*	5000*
			4-Isopropyltoluebe	BDL	Not Listed	Not Listed
			Acetone	BDL	110,000	110,000
			Ethylbenzene	BDL	140	480
			Isopropylbenzene	BDL	270	270
			m+p-Xylene	BDL	Not Listed	Not Listed
			Naphthalene (1)	BDL	45	230
			n-Butylbenzene	BDL	110	110
			n-Propylbenzene	BDL	Not Listed	Not Listed
			Sec-Butylbenzene	BDL	Not Listed	Not Listed
			Total Xylene	BDL	260	260
			1-Methylnaphthalene	BDL	0.46	1.9
			2-Methylnaphthalene	BDL	480	8,900
			Acenaphthylene	BDL	Not Listed	Not Listed
			Anthracene	BDL	36,000	670,000
			Benzo(a)anthracene	BDL	23	610
			Benzo(a)pyrene	BDL	2.3	62
			Benzo(b)fluoranthene	BDL	23	620
			Benzo(g,h,i)perylene	BDL	Not Listed	Not Listed
			Benzo(k)fluoranthene	BDL	230	6,200
			Carbazole	BDL	Not Listed	Not Listed
			Chrysene	BDL	2,300	62,000
			Dibenzo(a,h)anthracene	BDL	2.3	62
			Dibenzofuran	BDL	Not Listed	Not Listed
			Fluoranthene	BDL	4,800	89,000
			Fluorene	BDL	1,200	89,000
			Indeno(1,2,3-cd)pyrene	BDL	23	620
			Naphthalene (2)	BDL	45	230
			Phenanthrene	BDL	Not Listed	Not Listed
			Pyrene	BDL	3,600	67,000

Residential Standards - OAC 3745-300-08; Commercial Standards - OAC 3745-300-08
TPH – Total Petroleum Hydrocarbons
BDL – Below Detection Limits
**BUSTR TPH Action Levels*
(1) - Analyzed by Method 8260; (2) - Analyzed by Method 8270

Table 4B: Soil Sampling Analytical Results Summary

Boring ID	Sample Depth (ft)	Sample Collection Date	Parameter	Result (mg/kg)	Regulatory Action Level (mg/kg)	
					Residential	Commercial /Industrial
Soil Boring (SB) 2	6'-8'	April 4, 2025	TPH C6-C12	BDL	1000*	1000*
			TPH C10-C20	BDL	2000*	2000*
			TPH C20-C34	BDL	5000*	5000*
			4-Isopropyltoluebe	BDL	Not Listed	Not Listed
			Acetone	BDL	110,000	110,000
			Ethylbenzene	BDL	140	480
			Isopropylbenzene	BDL	270	270
			m+p-Xylene	BDL	Not Listed	Not Listed
			Naphthalene (1)	BDL	45	230
			n-Butylbenzene	BDL	110	110
			n-Propylbenzene	BDL	Not Listed	Not Listed
			Sec-Butylbenzene	BDL	Not Listed	Not Listed
			Total Xylene	BDL	260	260
			1-Methylnaphthalene	BDL	0.46	1.9
			2-Methylnaphthalene	BDL	480	8,900
			Acenaphthylene	BDL	Not Listed	Not Listed
			Anthracene	BDL	36,000	670,000
			Benzo(a)anthracene	BDL	23	610
			Benzo(a)pyrene	BDL	2.3	62
			Benzo(b)fluoranthene	BDL	23	620
			Benzo(g,h,i)perylene	BDL	Not Listed	Not Listed
			Benzo(k)fluoranthene	BDL	230	6,200
			Carbazole	BDL	Not Listed	Not Listed
			Chrysene	BDL	2,300	62,000
			Dibenzo(a,h)anthracene	BDL	2.3	62
			Dibenzofuran	BDL	Not Listed	Not Listed
			Fluoranthene	BDL	4,800	89,000
			Fluorene	BDL	1,200	89,000
			Indeno(1,2,3-cd)pyrene	BDL	23	620
			Naphthalene (2)	BDL	45	230
			Phenanthrene	BDL	Not Listed	Not Listed
			Pyrene	BDL	3,600	67,000

Residential Standards - OAC 3745-300-08; Commercial Standards - OAC 3745-300-08
TPH – Total Petroleum Hydrocarbons
BDL – Below Detection Limits
**BUSTR TPH Action Levels*
(1) - Analyzed by Method 8260; (2) - Analyzed by Method 8270

Table 4C: Soil Sampling Analytical Results Summary

Boring ID	Sample Depth (ft)	Sample Collection Date	Parameter	Result (mg/kg)	Regulatory Action Level (mg/kg)	
					Residential	Commercial /Industrial
Soil Boring (SB) 3	8'-10'	April 4, 2025	TPH C6-C12	BDL	1000*	1000*
			TPH C10-C20	BDL	2000*	2000*
			TPH C20-C34	BDL	5000*	5000*
			4-Isopropyltoluebe	BDL	Not Listed	Not Listed
			Acetone	**0.0668**	110,000	110,000
			Ethylbenzene	BDL	140	480
			Isopropylbenzene	BDL	270	270
			m+p-Xylene	BDL	Not Listed	Not Listed
			Naphthalene (1)	BDL	45	230
			n-Butylbenzene	BDL	110	110
			n-Propylbenzene	BDL	Not Listed	Not Listed
			Sec-Butylbenzene	BDL	Not Listed	Not Listed
			Total Xylene	BDL	260	260
			1-Methylnaphthalene	BDL	0.46	1.9
			2-Methylnaphthalene	BDL	480	8,900
			Acenaphthylene	BDL	Not Listed	Not Listed
			Anthracene	BDL	36,000	670,000
			Benzo(a)anthracene	BDL	23	610
			Benzo(a)pyrene	BDL	2.3	62
			Benzo(b)fluoranthene	BDL	23	620
			Benzo(g,h,i)perylene	BDL	Not Listed	Not Listed
			Benzo(k)fluoranthene	BDL	230	6,200
			Carbazole	BDL	Not Listed	Not Listed
			Chrysene	BDL	2,300	62,000
			Dibenzo(a,h)anthracene	BDL	2.3	62
			Dibenzofuran	BDL	Not Listed	Not Listed
			Fluoranthene	BDL	4,800	89,000
			Fluorene	BDL	1,200	89,000
			Indeno(1,2,3-cd)pyrene	BDL	23	620
			Naphthalene (2)	BDL	45	230
			Phenanthrene	BDL	Not Listed	Not Listed
			Pyrene	BDL	3,600	67,000

Residential Standards - OAC 3745-300-08; Commercial Standards - OAC 3745-300-08
TPH – Total Petroleum Hydrocarbons
BDL – Below Detection Limits
**BUSTR TPH Action Levels*
(1) - Analyzed by Method 8260; (2) - Analyzed by Method 8270

Table 4D: Soil Sampling Analytical Results Summary

Boring ID	Sample Depth (ft)	Sample Collection Date	Parameter	Result (mg/kg)	Regulatory Action Level (mg/kg)	
					Residential	Commercial /Industrial
Soil Boring (SB) 4	8'-10'	April 4, 2025	TPH C6-C12	**36.0**	1000*	1000*
			TPH C10-C20	**176.0**	2000*	2000*
			TPH C20-C34	**21.5**	5000*	5000*
			4-Isopropyltoluebe	**0.733**	Not Listed	Not Listed
			Acetone	BDL	110,000	110,000
			Ethylbenzene	**1.27**	140	480
			Isopropylbenzene	**0.734**	270	270
			m+p-Xylene	**0.93**	Not Listed	Not Listed
			Naphthalene (1)	**5.89**	45	230
			n-Butylbenzene	**0.646**	110	110
			n-Propylbenzene	**1.74**	Not Listed	Not Listed
			Sec-Butylbenzene	BDL	Not Listed	Not Listed
			Total Xylene	**0.93**	260	260
			1-Methylnaphthalene	**3.20**	0.46	1.9
			2-Methylnaphthalene	**7.67**	480	8,900
			Acenaphthylene	BDL	Not Listed	Not Listed
			Anthracene	BDL	36,000	670,000
			Benzo(a)anthracene	BDL	23	610
			Benzo(a)pyrene	BDL	2.3	62
			Benzo(b)fluoranthene	BDL	23	620
			Benzo(g,h,i)perylene	BDL	Not Listed	Not Listed
			Benzo(k)fluoranthene	BDL	230	6,200
			Carbazole	BDL	Not Listed	Not Listed
			Chrysene	BDL	2,300	62,000
			Dibenzo(a,h)anthracene	BDL	2.3	62
			Dibenzofuran	BDL	Not Listed	Not Listed
			Fluoranthene	BDL	4,800	89,000
			Fluorene	BDL	1,200	89,000
			Indeno(1,2,3-cd)pyrene	BDL	23	620
			Naphthalene (2)	**6.39**	45	230
			Phenanthrene	BDL	Not Listed	Not Listed
			Pyrene	BDL	3,600	67,000

Residential Standards - OAC 3745-300-08; Commercial Standards - OAC 3745-300-08
TPH – Total Petroleum Hydrocarbons
BDL – Below Detection Limits
**BUSTR TPH Action Levels*
(1) - Analyzed by Method 8260; (2) - Analyzed by Method 8270

Table 4E: Soil Sampling Analytical Results Summary

Boring ID	Sample Depth (ft)	Sample Collection Date	Parameter	Result (mg/kg)	Regulatory Action Level (mg/kg)	
					Residential	Commercial /Industrial
Soil Boring (SB) 5	4'-6'	April 4, 2025	TPH C6-C12	BDL	1000*	1000*
			TPH C10-C20	BDL	2000*	2000*
			TPH C20-C34	**40.9**	5000*	5000*
			4-Isopropyltoluebe	BDL	Not Listed	Not Listed
			Acetone	BDL	110,000	110,000
			Ethylbenzene	BDL	140	480
			Isopropylbenzene	BDL	270	270
			m+p-Xylene	BDL	Not Listed	Not Listed
			Naphthalene (1)	BDL	45	230
			n-Butylbenzene	BDL	110	110
			n-Propylbenzene	BDL	Not Listed	Not Listed
			Sec-Butylbenzene	BDL	Not Listed	Not Listed
			Total Xylene	BDL	260	260
			1-Methylnaphthalene	BDL	0.46	1.9
			2-Methylnaphthalene	BDL	480	8,900
			Acenaphthylene	BDL	Not Listed	Not Listed
			Anthracene	BDL	36,000	670,000
			Benzo(a)anthracene	BDL	23	610
			Benzo(a)pyrene	BDL	2.3	62
			Benzo(b)fluoranthene	BDL	23	620
			Benzo(g,h,i)perylene	BDL	Not Listed	Not Listed
			Benzo(k)fluoranthene	BDL	230	6,200
			Carbazole	BDL	Not Listed	Not Listed
			Chrysene	BDL	2,300	62,000
			Dibenzo(a,h)anthracene	BDL	2.3	62
			Dibenzofuran	BDL	Not Listed	Not Listed
			Fluoranthene	BDL	4,800	89,000
			Fluorene	BDL	1,200	89,000
			Indeno(1,2,3-cd)pyrene	BDL	23	620
			Naphthalene (2)	BDL	45	230
			Phenanthrene	BDL	Not Listed	Not Listed
			Pyrene	BDL	3,600	67,000

Residential Standards - OAC 3745-300-08; Commercial Standards - OAC 3745-300-08
TPH – Total Petroleum Hydrocarbons
BDL – Below Detection Limits
**BUSTR TPH Action Levels*
(1) - Analyzed by Method 8260; (2) - Analyzed by Method 8270

Table 4F: Soil Sampling Analytical Results Summary

Boring ID	Sample Depth (ft)	Sample Collection Date	Parameter	Result (mg/kg)	Regulatory Action Level (mg/kg)	
					Residential	Commercial /Industrial
Soil Boring (SB) 6	6'-10'	April 4, 2025	TPH C6-C12	**43.5**	1000*	1000*
			TPH C10-C20	**184.0**	2000*	2000*
			TPH C20-C34	**35.9**	5000*	5000*
			4-Isopropyltoluebe	BDL	Not Listed	Not Listed
			Acetone	BDL	110,000	110,000
			Ethylbenzene	BDL	140	480
			Isopropylbenzene	**0.734**	270	270
			m+p-Xylene	BDL	Not Listed	Not Listed
			Naphthalene (1)	**0.509**	45	230
			n-Butylbenzene	**0.736**	110	110
			n-Propylbenzene	**3.10**	Not Listed	Not Listed
			Sec-Butylbenzene	**0.355**	Not Listed	Not Listed
			Total Xylene	BDL	260	260
			1-Methylnaphthalene	**2.31**	0.46	1.9
			2-Methylnaphthalene	**0.65**	480	8,900
			Acenaphthylene	BDL	Not Listed	Not Listed
			Anthracene	BDL	36,000	670,000
			Benzo(a)anthracene	BDL	23	610
			Benzo(a)pyrene	BDL	2.3	62
			Benzo(b)fluoranthene	BDL	23	620
			Benzo(g,h,i)perylene	BDL	Not Listed	Not Listed
			Benzo(k)fluoranthene	BDL	230	6,200
			Carbazole	BDL	Not Listed	Not Listed
			Chrysene	BDL	2,300	62,000
			Dibenzo(a,h)anthracene	BDL	2.3	62
			Dibenzofuran	BDL	Not Listed	Not Listed
			Fluoranthene	BDL	4,800	89,000
			Fluorene	BDL	1,200	89,000
			Indeno(1,2,3-cd)pyrene	BDL	23	620
			Naphthalene (2)	**0.524**	45	230
			Phenanthrene	BDL	Not Listed	Not Listed
			Pyrene	BDL	3,600	67,000

Residential Standards - OAC 3745-300-08; Commercial Standards - OAC 3745-300-08
TPH – Total Petroleum Hydrocarbons
BDL – Below Detection Limits
**BUSTR TPH Action Levels*
(1) - Analyzed by Method 8260; (2) - Analyzed by Method 8270

5.5.2 Groundwater Elevation

No monitoring wells were installed as part of this investigation and no evidence of existing monitoring wells was present. The direction of groundwater flow and hydraulic gradient were not determined, as the analytical results of boring soil samples do not elicit this level of concern.

5.5.3 Laboratory QA/QC

ALS Environmental, a certified analytical lab located in Cincinnati, Ohio, conducted all analytical quality assurance/quality control (QA/QC) and utilized sample and result qualifiers as set forth by the EPA Contract Laboratory Program. QC sample results for this data met laboratory specifications. Any exceptions are noted in the Case Narrative or noted with qualifiers in the sampling report or QC Batch Report. See the Laboratory Analytical Reports in Appendix C.

6. CONCLUSIONS & RECOMMENDATIONS

Information revealed during the RMR Investigation was used to reach the following recommendations:

Table 5: RMR Investigation Findings & Recommendations

Project C-R-S / Name:	HAR-US 68/SR 31 Roundabout	PID:	121008	Project City	Kenton
Property ID#, Tenant Name & Address	Findings			Next Step Recommendations	
RM-008; Mark Tice; 370 S Main St	The soil samples from SB-4 and SB- 6 tested above the VAP Standard/Action Level for commercial/industrial use for one parameter (1-Methylnaphthalene). Additionally, SB-5 is located near the potential UST area identified in the geophysical report. Excavated materials may not be reused on the project and must be disposed of using the appropriate procedures.			RM Plan Note (PCS, hydraulic lift, and UST removal) is recommended for the western parcels only.	

RMR INVESTIGATION REPORT APPENDIX

Appendix A – Project Figures

- Figure 1 – USGS Topographic Map
- Figure 2 – Property Diagram
- Figure 3 – NRCS Soil Map
- Figure 4 – Soil Sample Location Map with Analytical Results

Appendix B – Geologic Information

- Field Borehole Logs & Geologic Cross-Sections

Appendix C – Investigation Documentation

- Summary Table of Test Results
- Field and Calibration Logs
- Laboratory Analytical Reports
- Laboratory QA/QC Report
- Chain of Custody

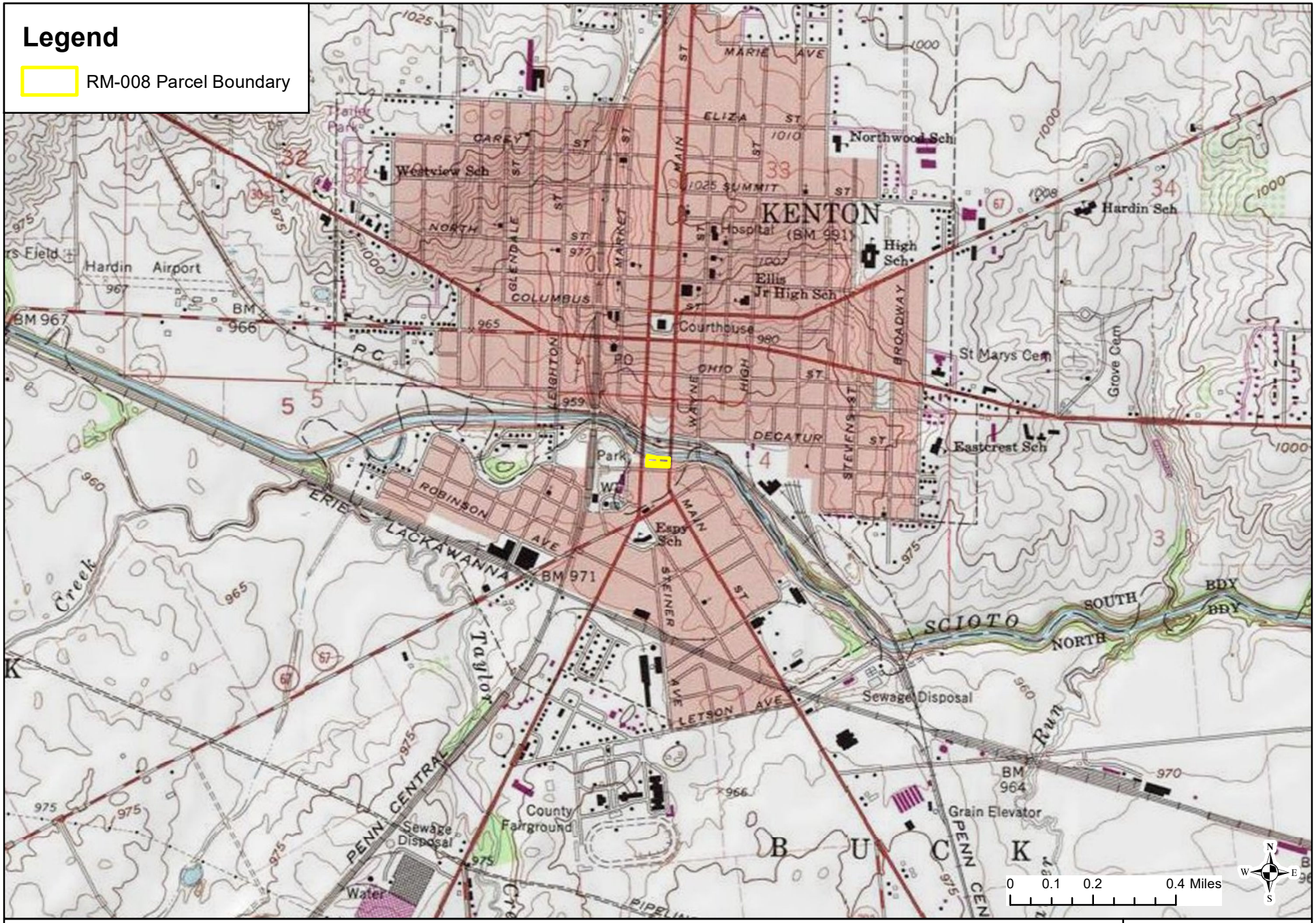
Appendix D – Project Plan Sheets

Appendix E – Other Information

- The Geophysical Survey Report and RMR Assessment are available in the EnviroNet Project File.

Appendix A

Project Figures



Source: Esri

Figure 1 - USGS Topographic Map (Kenton Quadrangle), Overview
HAR-US 68/SR 31 Roundabout (PID 121008) City of Kenton, Hardin County, Ohio

CLUNE CONSULTING SERVICES
ENVIRONMENTAL & TRANSPORTATION PLANNING

Source: Esri

Figure 1 - USGS Topographic Map (Kenton Quadrangle), Individual
HAR-US 68/SR 31 Roundabout (PID 121008)
City of Kenton, Hardin County, Ohio

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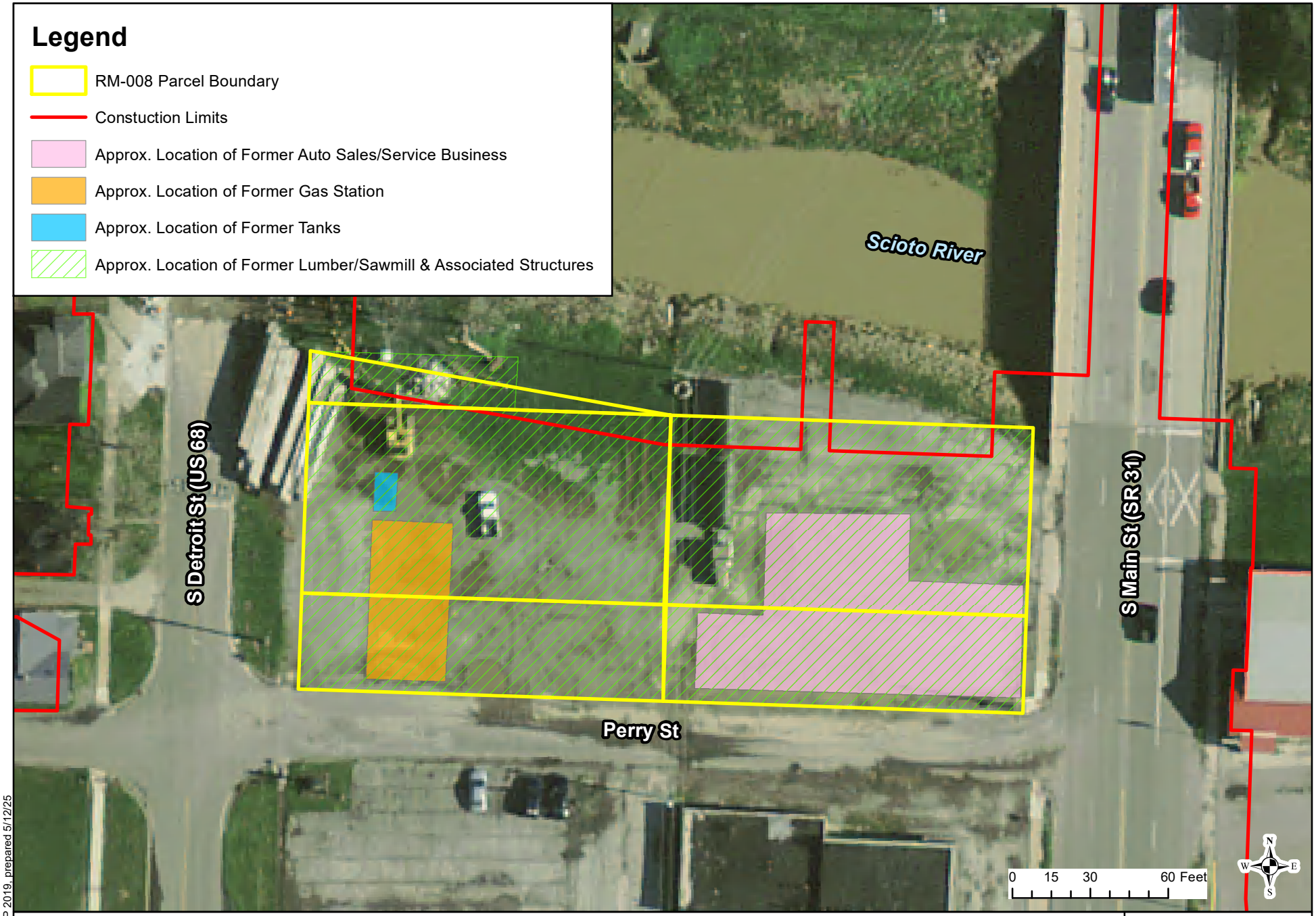


Source: OSIP 2019, prepared 5/12/25

Figure 2 - Property Diagram (370 S Main St)
HAR-US 68/SR 31 Roundabout (PID 121008)
City of Kenton, Hardin County, Ohio

CLUNE CONSULTING SERVICES
ENVIRONMENTAL & TRANSPORTATION PLANNING

Soil Map - RM-008
(HAR-US 68/SR 31 Roundabout)

Map Scale: 1:473 if printed on A landscape (11" x 8.5") sheet.

N

Meters
0 5 10 20 30

Feet
0 20 40 80 120

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 17N WGS84

MAP LEGEND

Area of Interest (AOI)
- Area of Interest (AOI)

Soils
- Soil Map Unit Polygons
- Soil Map Unit Lines
- Soil Map Unit Points

Special Point Features
- Blowout
- Borrow Pit
- Clay Spot
- Closed Depression
- Gravel Pit
- Gravelly Spot
- Landfill
- Lava Flow
- Marsh or swamp
- Mine or Quarry
- Miscellaneous Water
- Perennial Water
- Rock Outcrop
- Saline Spot
- Sandy Spot
- Severely Eroded Spot
- Sinkhole
- Slide or Slip
- Sodic Spot
- Spoil Area
- Stony Spot
- Very Stony Spot
- Wet Spot
- Other
- Special Line Features

Water Features
- Streams and Canals

Transportation
- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background
- Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:15,800.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Hardin County, Ohio
Survey Area Data: Version 22, Aug 28, 2024

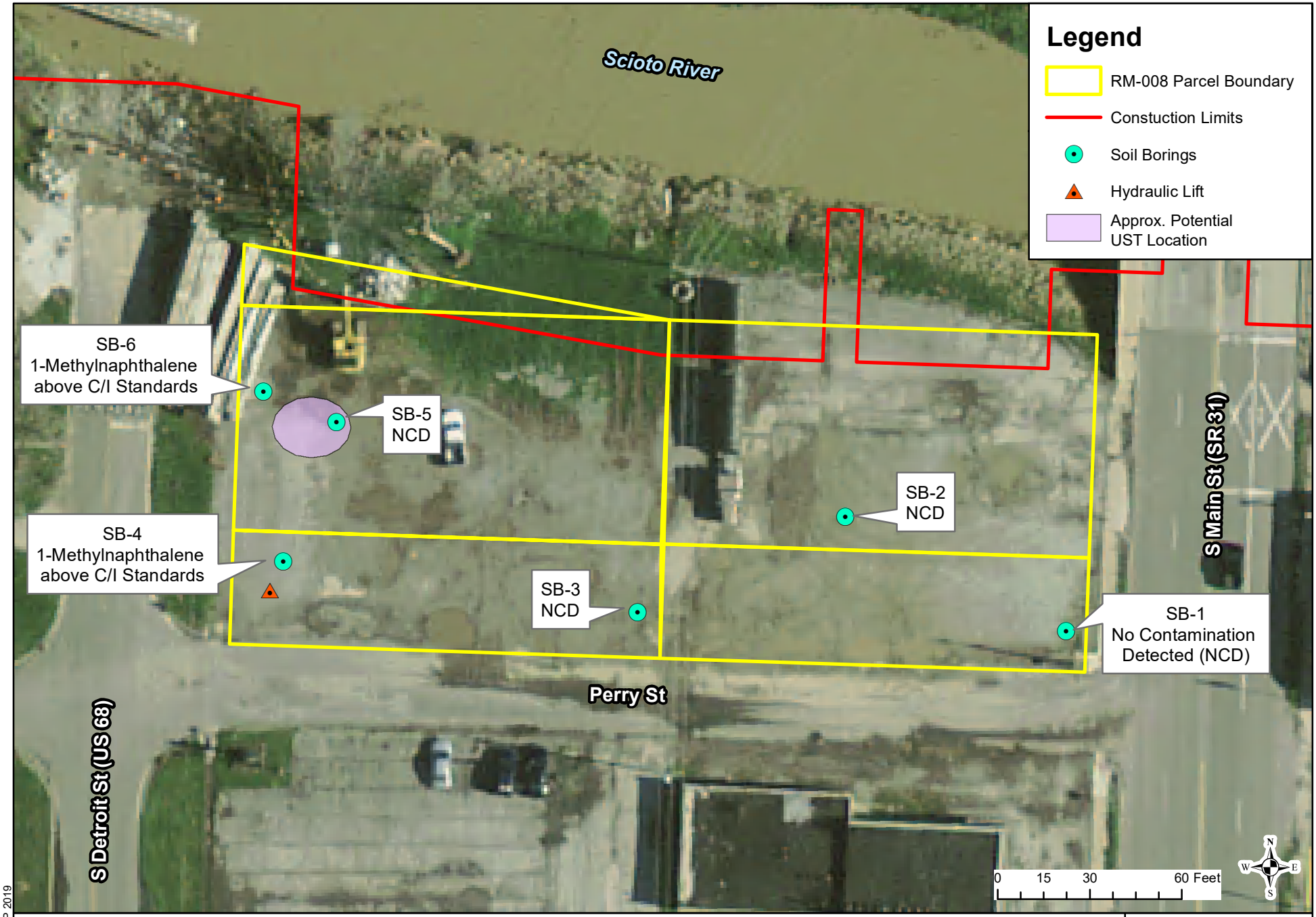
Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: May 21, 2023—Aug 8, 2023

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
OdA	Ockley-Urban land complex, 0 to 2 percent slopes	0.7	100.0%
Totals for Area of Interest		**0.7**	**100.0%**



Source: OSIP 2019

Figure 4 – Soil Sample Location Map with Analytical Results
HAR-US 68/SR 31 Roundabout (PID 121008)
City of Kenton, Hardin County, Ohio

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Environmental & Transportation Planning

Appendix B

Geologic Information

CLUNE CONSULTING SERVICES LLC
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382 W. 1st St., Minster, Ohio 45865

FIELD BOREHOLE LOG

BORING/WELL #: **SB-1**
TOTAL DEPTH: **15'**

PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	**PID 121008**	DRILLING CO.:	**A Drilling Co.**
SITE LOCATION:	**Kenton, Ohio**	DRILLER:	**Adam Archer**
JOB NO.:	**HAR-US 68 SR 31-0.00**	RIG TYPE:	**Geoprobe**
LOGGED BY:	**Edward Council, Ph.D., PG**	METHOD OF DRILLING:	**Geoprobe**
PROJECT MANAGER:	**Edward Council, Ph.D., PG**	SAMPLING METHODS:	**PVC Liners**
DATES DRILLED:	**4/4/2025**	HAMMER WT./DROP:	**N/A**

▽ Water Level During Drilling

DEPTH	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	SAMPLE	Blows / ft.	PID ppm	BORING COMPLETION	MATERIAL DESCRIPTION
0		GP	Gray Sandy Gravel, Friable, Non-Plastic, and Hard.			0.719		
			Brown-Gray Silty Clay to Clayey Silt, Plastic, Moist, and Dense.			0.851		
5			Gray Silty Clay to Clayey Silt, Plastic, Moist, and Dense. Brick Fragment between 4.0' to 4.2'.			0.554		
			Wet at 14.6'.			4.038		Bentonite Seal
		ML		SB-1 (8'-12')		7.350		
10						10.05		
▽						2.851		
15						1.529		

NOTES: Sunny to Partly Cloudy

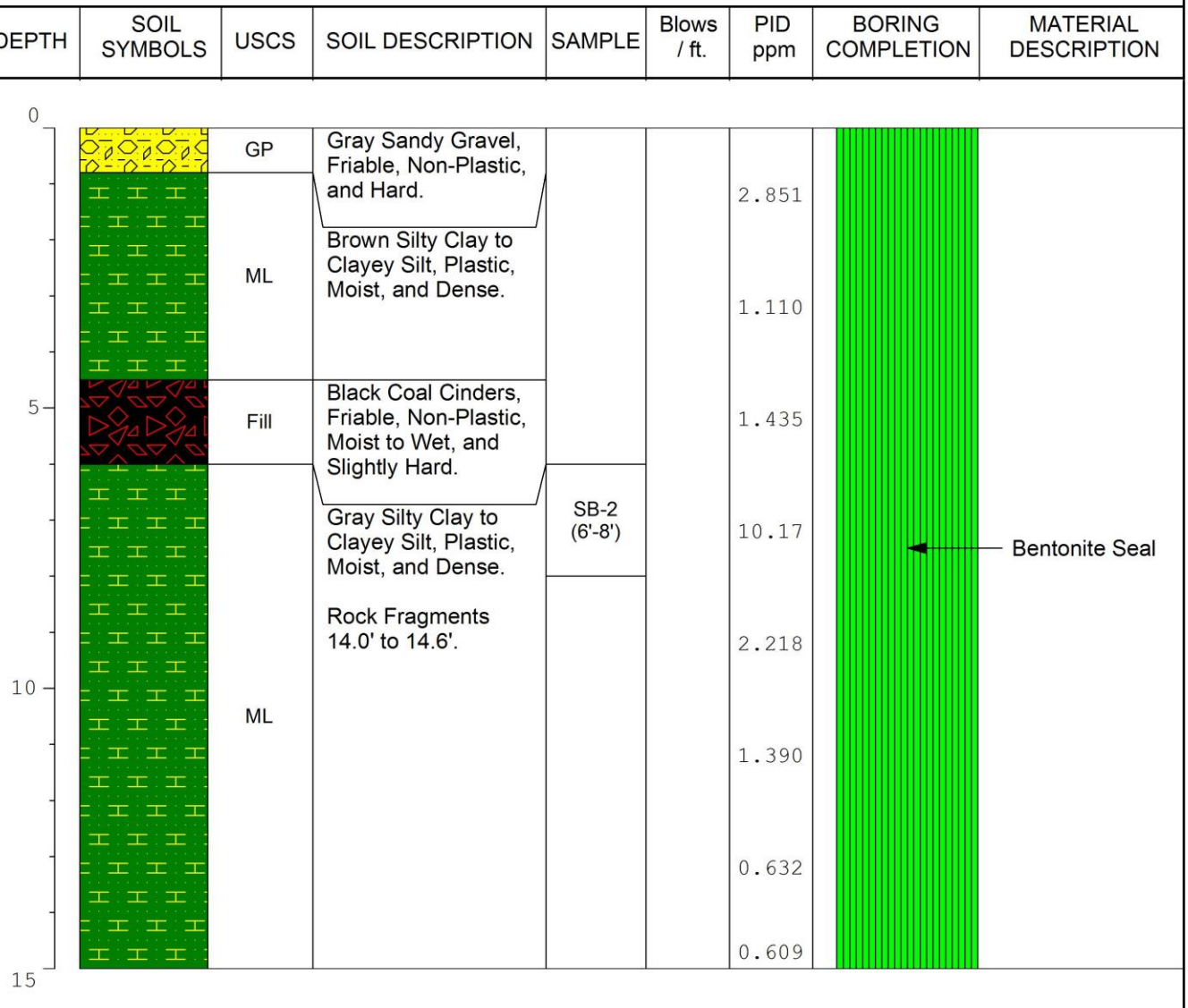
CLUNE CONSULTING SERVICES LLC
ENVIRONMENTAL & TRANSPORTATION PLANNING
382 W. 1st St., Minster, Ohio 45865

FIELD BOREHOLE LOG

BORING/WELL #: **SB-2**
TOTAL DEPTH: **15'**

PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	**PID 121008**	DRILLING CO.:	**A Drilling Co.**
SITE LOCATION:	**Kenton, Ohio**	DRILLER:	**Adam Archer**
JOB NO.:	**HAR-US 68 SR 31-0.00**	RIG TYPE:	**Geoprobe**
LOGGED BY:	**Edward Council, Ph.D., PG**	METHOD OF DRILLING:	**Geoprobe**
PROJECT MANAGER:	**Edward Council, Ph.D., PG**	SAMPLING METHODS:	**PVC Liners**
DATES DRILLED:	**4/4/2025**	HAMMER WT./DROP:	**N/A**

▽ Water Level During Drilling



NOTES: Sunny to Partly Cloudy

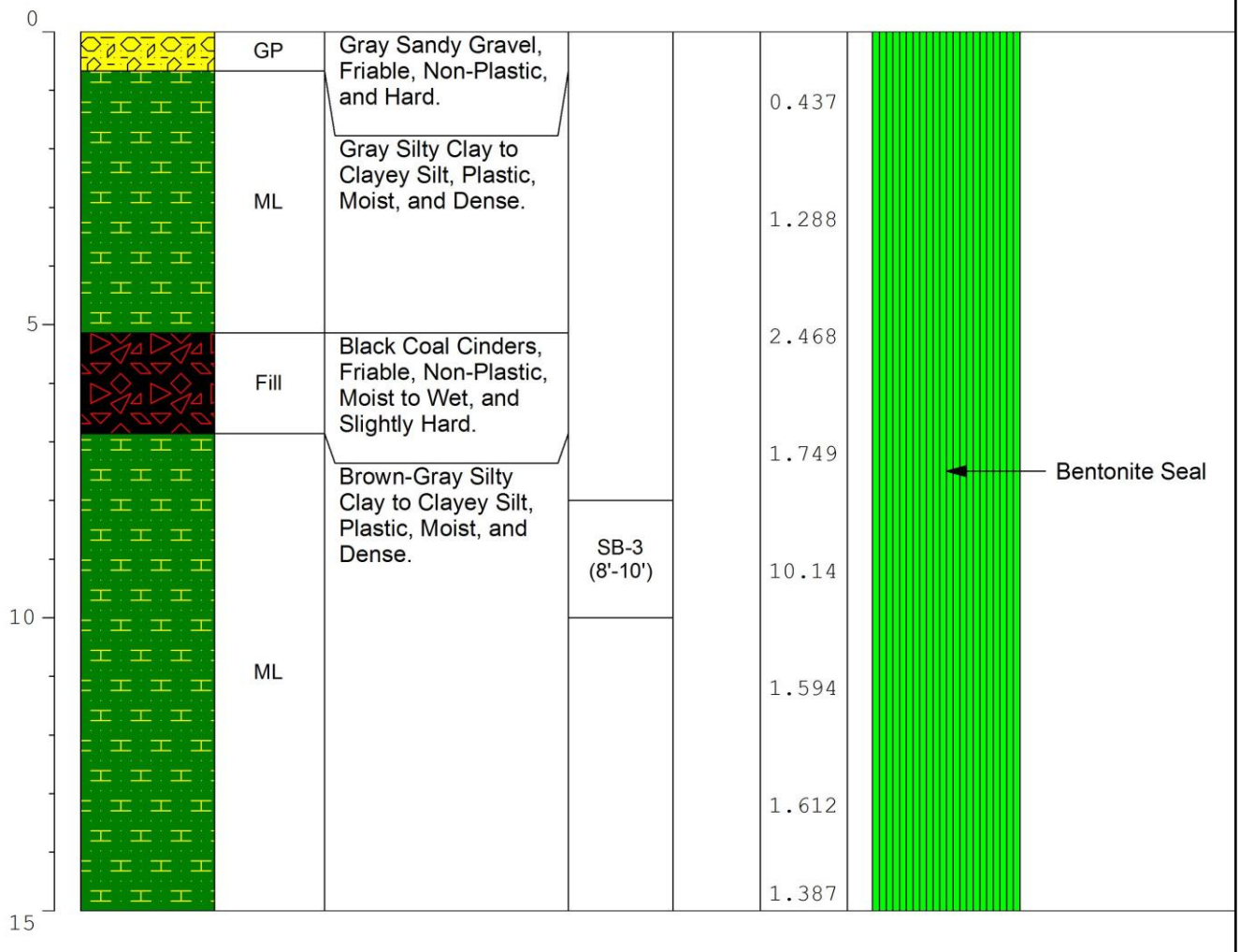
CLUNE CONSULTING SERVICES LLC
ENVIRONMENTAL & TRANSPORTATION PLANNING
382 W. 1st St., Minster, Ohio 45865

FIELD BOREHOLE LOG

BORING/WELL #: **SB-3**
TOTAL DEPTH: **15'**

PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	**PID 121008**	DRILLING CO.:	**A Drilling Co.**
SITE LOCATION:	**Kenton, Ohio**	DRILLER:	**Adam Archer**
JOB NO.:	**HAR-US 68 SR 31-0.00**	RIG TYPE:	**Geoprobe**
LOGGED BY:	**Edward Council, Ph.D., PG**	METHOD OF DRILLING:	**Geoprobe**
PROJECT MANAGER:	**Edward Council, Ph.D., PG**	SAMPLING METHODS:	**PVC Liners**
DATES DRILLED:	**4/4/2025**	HAMMER WT./DROP:	**N/A**

▽ Water Level During Drilling



NOTES: Sunny to Partly Cloudy

CLUNE CONSULTING SERVICES LLC
ENVIRONMENTAL & TRANSPORTATION PLANNING
382 W. 1st St., Minster, Ohio 45865

FIELD BOREHOLE LOG

BORING/WELL #: **SB-4**
TOTAL DEPTH: **15'**

PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	**PID 121008**	DRILLING CO.:	**A Drilling Co.**
SITE LOCATION:	**Kenton, Ohio**	DRILLER:	**Adam Archer**
JOB NO.:	**HAR-US 68 SR 31-0.00**	RIG TYPE:	**Geoprobe**
LOGGED BY:	**Edward Council, Ph.D., PG**	METHOD OF DRILLING:	**Geoprobe**
PROJECT MANAGER:	**Edward Council, Ph.D., PG**	SAMPLING METHODS:	**PVC Liners**
DATES DRILLED:	**4/4/2025**	HAMMER WT./DROP:	**N/A**

▽ Water Level During Drilling

DEPTH	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	SAMPLE	Blows / ft.	PID ppm	BORING COMPLETION	MATERIAL DESCRIPTION
0		GP	Gray Sandy Gravel, Friable, Non-Plastic, and Hard.			1.054		
		ML	Brown-Gray Silty Clay to Clayey Silt, Plastic, Moist, and Dense. Grades to Gray in Color at 2.29'.			15.47		
5		Fill	Black Coal Cinders, Friable, Non-Plastic, Moist to Wet, and Slightly Hard.			128.9		
			Gray Silty Clay to Clayey Silt, Plastic, Moist, and Dense.			389.9	Bentonite Seal	
				SB-4 (8'-10')		790.1		
10		ML				27.95		
						1.555		
15						2.535		

NOTES: Sunny to Partly Cloudy

CLUNE CONSULTING SERVICES LLC
ENVIRONMENTAL & TRANSPORTATION PLANNING
382 W. 1st St., Minster, Ohio 45865

FIELD BOREHOLE LOG

BORING/WELL #: **SB-5**
TOTAL DEPTH: **15'**

PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	**PID 121008**	DRILLING CO.:	**A Drilling Co.**
SITE LOCATION:	**Kenton, Ohio**	DRILLER:	**Adam Archer**
JOB NO.:	**HAR-US 68 SR 31-0.00**	RIG TYPE:	**Geoprobe**
LOGGED BY:	**Edward Council, Ph.D., PG**	METHOD OF DRILLING:	**Geoprobe**
PROJECT MANAGER:	**Edward Council, Ph.D., PG**	SAMPLING METHODS:	**PVC Liners**
DATES DRILLED:	**4/4/2025**	HAMMER WT./DROP:	**N/A**

▽ Water Level During Drilling

DEPTH	SOIL SYMBOLS	USCS	SOIL DESCRIPTION	SAMPLE	Blows / ft.	PID ppm	BORING COMPLETION	MATERIAL DESCRIPTION
0		GP	Gray Sandy Gravel, Friable, Non-Plastic, and Hard.			1.389		
		ML	Gray Silty Clay to Clayey Silt, Plastic, Moist, and Dense.			2.053		
		Fill	Black Coal Cinders, Friable, Non-Plastic, Moist to Wet, and Slightly Hard.	SB-5 (4'-6')		14.82		
5			Gray Silty Clay to Clayey Silt, Plastic, Moist, and Dense.			8.669	Bentonite Seal	
		ML	White Rock Fragements between 8.87' and 9.91'			3.265		
10						3.674		
						1.850		
15						1.044		

NOTES: Sunny to Partly Cloudy

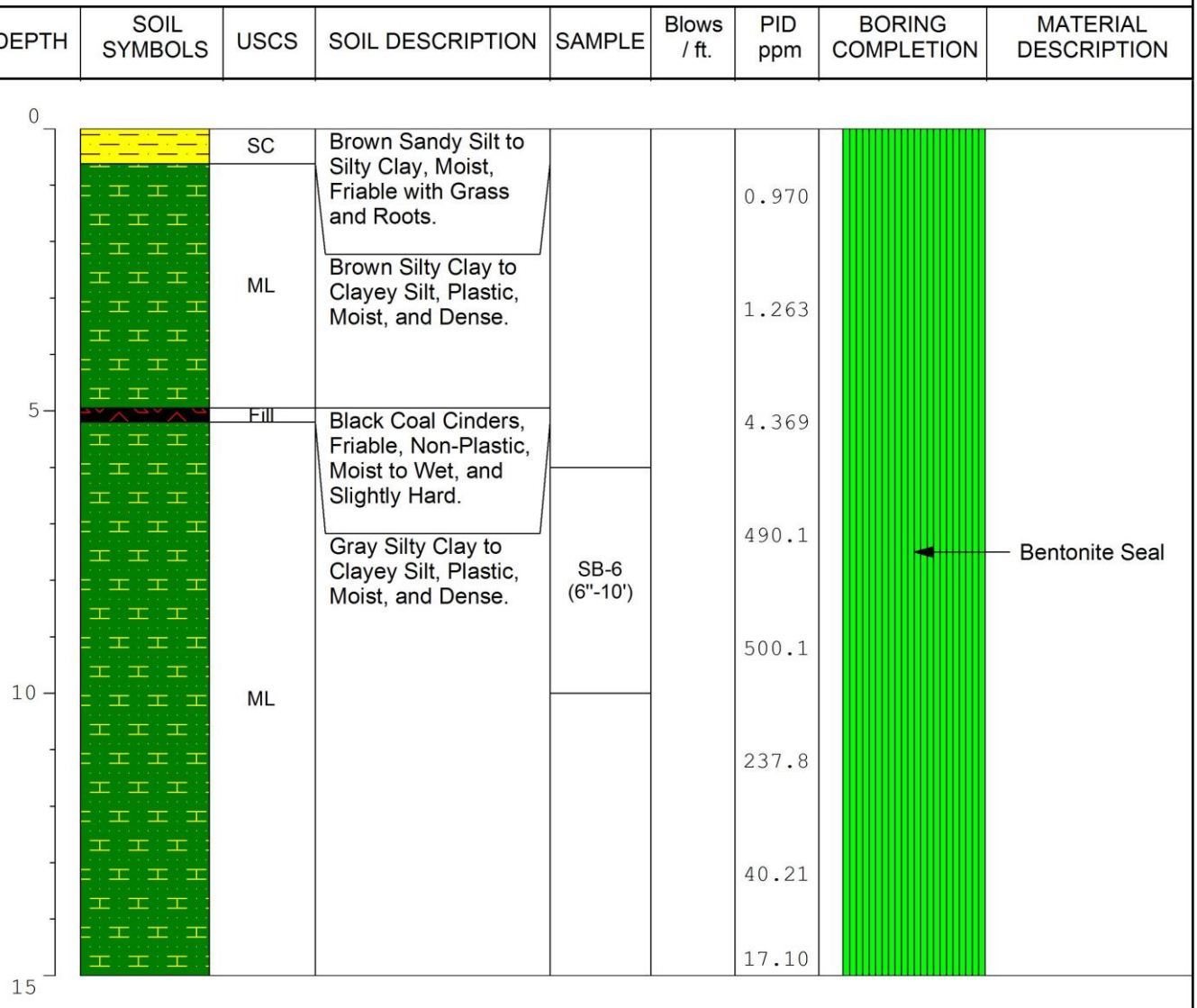
CLUNE CONSULTING SERVICES LLC
ENVIRONMENTAL & TRANSPORTATION PLANNING
382 W. 1st St., Minster, Ohio 45865

FIELD BOREHOLE LOG

BORING/WELL #: **SB-6**
TOTAL DEPTH: **15'**

PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	**PID 121008**	DRILLING CO.:	**A Drilling Co.**
SITE LOCATION:	**Kenton, Ohio**	DRILLER:	**Adam Archer**
JOB NO.:	**HAR-US 68 SR 31-0.00**	RIG TYPE:	**Geoprobe**
LOGGED BY:	**Edward Council, Ph.D., PG**	METHOD OF DRILLING:	**Geoprobe**
PROJECT MANAGER:	**Edward Council, Ph.D., PG**	SAMPLING METHODS:	**PVC Liners**
DATES DRILLED:	**4/4/2025**	HAMMER WT./DROP:	**N/A**

▽ Water Level During Drilling



NOTES: Sunny to Partly Cloudy

Appendix C

Investigation Documentation

Soil Boring #1: Summary Table of Test Results

Boring ID	Sample Depth (ft)	Sample Collection Date	Parameter	Result (mg/kg)	Regulatory Action Level (mg/kg)	
					Residential	Commercial /Industrial
Soil Boring (SB) 1	8'-12'	April 4, 2025	TPH C6-C12	BDL	1000*	1000*
			TPH C10-C20	**23.8**	2000*	2000*
			TPH C20-C34	**48.4**	5000*	5000*
			4-Isopropyltoluebe	BDL	Not Listed	Not Listed
			Acetone	BDL	110,000	110,000
			Ethylbenzene	BDL	140	480
			Isopropylbenzene	BDL	270	270
			m+p-Xylene	BDL	Not Listed	Not Listed
			Naphthalene (1)	BDL	45	230
			n-Butylbenzene	BDL	110	110
			n-Propylbenzene	BDL	Not Listed	Not Listed
			Sec-Butylbenzene	BDL	Not Listed	Not Listed
			Total Xylene	BDL	260	260
			1-Methylnaphthalene	BDL	0.46	1.9
			2-Methylnaphthalene	BDL	480	8,900
			Acenaphthylene	BDL	Not Listed	Not Listed
			Anthracene	BDL	36,000	670,000
			Benzo(a)anthracene	BDL	23	610
			Benzo(a)pyrene	BDL	2.3	62
			Benzo(b)fluoranthene	BDL	23	620
			Benzo(g,h,i)perylene	BDL	Not Listed	Not Listed
			Benzo(k)fluoranthene	BDL	230	6,200
			Carbazole	BDL	Not Listed	Not Listed
			Chrysene	BDL	2,300	62,000
			Dibenzo(a,h)anthracene	BDL	2.3	62
			Dibenzofuran	BDL	Not Listed	Not Listed
			Fluoranthene	BDL	4,800	89,000
			Fluorene	BDL	1,200	89,000
			Indeno(1,2,3-cd)pyrene	BDL	23	620
			Naphthalene (2)	BDL	45	230
			Phenanthrene	BDL	Not Listed	Not Listed
			Pyrene	BDL	3,600	67,000

Residential Standards - OAC 3745-300-08; Commercial Standards - OAC 3745-300-08
TPH – Total Petroleum Hydrocarbons
BDL – Below Detection Limits
**BUSTR TPH Action Levels*
(1) - Analyzed by Method 8260; (2) - Analyzed by Method 8270

Soil Boring #2: Summary Table of Test Results

Boring ID	Sample Depth (ft)	Sample Collection Date	Parameter	Result (mg/kg)	Regulatory Action Level (mg/kg)	
					Residential	Commercial /Industrial
Soil Boring (SB) 2	6'-8'	April 4, 2025	TPH C6-C12	BDL	1000*	1000*
			TPH C10-C20	BDL	2000*	2000*
			TPH C20-C34	BDL	5000*	5000*
			4-Isopropyltoluebe	BDL	Not Listed	Not Listed
			Acetone	BDL	110,000	110,000
			Ethylbenzene	BDL	140	480
			Isopropylbenzene	BDL	270	270
			m+p-Xylene	BDL	Not Listed	Not Listed
			Naphthalene (1)	BDL	45	230
			n-Butylbenzene	BDL	110	110
			n-Propylbenzene	BDL	Not Listed	Not Listed
			Sec-Butylbenzene	BDL	Not Listed	Not Listed
			Total Xylene	BDL	260	260
			1-Methylnaphthalene	BDL	0.46	1.9
			2-Methylnaphthalene	BDL	480	8,900
			Acenaphthylene	BDL	Not Listed	Not Listed
			Anthracene	BDL	36,000	670,000
			Benzo(a)anthracene	BDL	23	610
			Benzo(a)pyrene	BDL	2.3	62
			Benzo(b)fluoranthene	BDL	23	620
			Benzo(g,h,i)perylene	BDL	Not Listed	Not Listed
			Benzo(k)fluoranthene	BDL	230	6,200
			Carbazole	BDL	Not Listed	Not Listed
			Chrysene	BDL	2,300	62,000
			Dibenzo(a,h)anthracene	BDL	2.3	62
			Dibenzofuran	BDL	Not Listed	Not Listed
			Fluoranthene	BDL	4,800	89,000
			Fluorene	BDL	1,200	89,000
			Indeno(1,2,3-cd)pyrene	BDL	23	620
			Naphthalene (2)	BDL	45	230
			Phenanthrene	BDL	Not Listed	Not Listed
			Pyrene	BDL	3,600	67,000

Residential Standards - OAC 3745-300-08; Commercial Standards - OAC 3745-300-08
TPH – Total Petroleum Hydrocarbons
BDL – Below Detection Limits
**BUSTR TPH Action Levels*
(1) - Analyzed by Method 8260; (2) - Analyzed by Method 8270

Soil Boring #3: Summary Table of Test Results

Boring ID	Sample Depth (ft)	Sample Collection Date	Parameter	Result (mg/kg)	Regulatory Action Level (mg/kg)	
					Residential	Commercial /Industrial
Soil Boring (SB) 3	8'-10'	April 4, 2025	TPH C6-C12	BDL	1000*	1000*
			TPH C10-C20	BDL	2000*	2000*
			TPH C20-C34	BDL	5000*	5000*
			4-Isopropyltoluebe	BDL	Not Listed	Not Listed
			Acetone	**0.0668**	110,000	110,000
			Ethylbenzene	BDL	140	480
			Isopropylbenzene	BDL	270	270
			m+p-Xylene	BDL	Not Listed	Not Listed
			Naphthalene (1)	BDL	45	230
			n-Butylbenzene	BDL	110	110
			n-Propylbenzene	BDL	Not Listed	Not Listed
			Sec-Butylbenzene	BDL	Not Listed	Not Listed
			Total Xylene	BDL	260	260
			1-Methylnaphthalene	BDL	0.46	1.9
			2-Methylnaphthalene	BDL	480	8,900
			Acenaphthylene	BDL	Not Listed	Not Listed
			Anthracene	BDL	36,000	670,000
			Benzo(a)anthracene	BDL	23	610
			Benzo(a)pyrene	BDL	2.3	62
			Benzo(b)fluoranthene	BDL	23	620
			Benzo(g,h,i)perylene	BDL	Not Listed	Not Listed
			Benzo(k)fluoranthene	BDL	230	6,200
			Carbazole	BDL	Not Listed	Not Listed
			Chrysene	BDL	2,300	62,000
			Dibenzo(a,h)anthracene	BDL	2.3	62
			Dibenzofuran	BDL	Not Listed	Not Listed
			Fluoranthene	BDL	4,800	89,000
			Fluorene	BDL	1,200	89,000
			Indeno(1,2,3-cd)pyrene	BDL	23	620
			Naphthalene (2)	BDL	45	230
			Phenanthrene	BDL	Not Listed	Not Listed
			Pyrene	BDL	3,600	67,000

Residential Standards - OAC 3745-300-08; Commercial Standards - OAC 3745-300-08
TPH – Total Petroleum Hydrocarbons
BDL – Below Detection Limits
**BUSTR TPH Action Levels*
(1) - Analyzed by Method 8260; (2) - Analyzed by Method 8270

Soil Boring #4: Summary Table of Test Results

Boring ID	Sample Depth (ft)	Sample Collection Date	Parameter	Result (mg/kg)	Regulatory Action Level (mg/kg)	
					Residential	Commercial /Industrial
Soil Boring (SB) 4	8'-10'	April 4, 2025	TPH C6-C12	**36.0**	1000*	1000*
			TPH C10-C20	**176.0**	2000*	2000*
			TPH C20-C34	**21.5**	5000*	5000*
			4-Isopropyltoluebe	**0.733**	Not Listed	Not Listed
			Acetone	BDL	110,000	110,000
			Ethylbenzene	**1.27**	140	480
			Isopropylbenzene	**0.734**	270	270
			m+p-Xylene	**0.93**	Not Listed	Not Listed
			Naphthalene (1)	**5.89**	45	230
			n-Butylbenzene	**0.646**	110	110
			n-Propylbenzene	**1.74**	Not Listed	Not Listed
			Sec-Butylbenzene	BDL	Not Listed	Not Listed
			Total Xylene	**0.93**	260	260
			1-Methylnaphthalene	**3.20**	0.46	1.9
			2-Methylnaphthalene	**7.67**	480	8,900
			Acenaphthylene	BDL	Not Listed	Not Listed
			Anthracene	BDL	36,000	670,000
			Benzo(a)anthracene	BDL	23	610
			Benzo(a)pyrene	BDL	2.3	62
			Benzo(b)fluoranthene	BDL	23	620
			Benzo(g,h,i)perylene	BDL	Not Listed	Not Listed
			Benzo(k)fluoranthene	BDL	230	6,200
			Carbazole	BDL	Not Listed	Not Listed
			Chrysene	BDL	2,300	62,000
			Dibenzo(a,h)anthracene	BDL	2.3	62
			Dibenzofuran	BDL	Not Listed	Not Listed
			Fluoranthene	BDL	4,800	89,000
			Fluorene	BDL	1,200	89,000
			Indeno(1,2,3-cd)pyrene	BDL	23	620
			Naphthalene (2)	**6.39**	45	230
			Phenanthrene	BDL	Not Listed	Not Listed
			Pyrene	BDL	3,600	67,000

Residential Standards - OAC 3745-300-08; Commercial Standards - OAC 3745-300-08
TPH – Total Petroleum Hydrocarbons
BDL – Below Detection Limits
**BUSTR TPH Action Levels*
(1) - Analyzed by Method 8260; (2) - Analyzed by Method 8270

Soil Boring #5: Summary Table of Test Results

Boring ID	Sample Depth (ft)	Sample Collection Date	Parameter	Result (mg/kg)	Regulatory Action Level (mg/kg)	
					Residential	Commercial /Industrial
Soil Boring (SB) 5	4'-6'	April 4, 2025	TPH C6-C12	BDL	1000*	1000*
			TPH C10-C20	BDL	2000*	2000*
			TPH C20-C34	**40.9**	5000*	5000*
			4-Isopropyltoluebe	BDL	Not Listed	Not Listed
			Acetone	BDL	110,000	110,000
			Ethylbenzene	BDL	140	480
			Isopropylbenzene	BDL	270	270
			m+p-Xylene	BDL	Not Listed	Not Listed
			Naphthalene (1)	BDL	45	230
			n-Butylbenzene	BDL	110	110
			n-Propylbenzene	BDL	Not Listed	Not Listed
			Sec-Butylbenzene	BDL	Not Listed	Not Listed
			Total Xylene	BDL	260	260
			1-Methylnaphthalene	BDL	0.46	1.9
			2-Methylnaphthalene	BDL	480	8,900
			Acenaphthylene	BDL	Not Listed	Not Listed
			Anthracene	BDL	36,000	670,000
			Benzo(a)anthracene	BDL	23	610
			Benzo(a)pyrene	BDL	2.3	62
			Benzo(b)fluoranthene	BDL	23	620
			Benzo(g,h,i)perylene	BDL	Not Listed	Not Listed
			Benzo(k)fluoranthene	BDL	230	6,200
			Carbazole	BDL	Not Listed	Not Listed
			Chrysene	BDL	2,300	62,000
			Dibenzo(a,h)anthracene	BDL	2.3	62
			Dibenzofuran	BDL	Not Listed	Not Listed
			Fluoranthene	BDL	4,800	89,000
			Fluorene	BDL	1,200	89,000
			Indeno(1,2,3-cd)pyrene	BDL	23	620
			Naphthalene (2)	BDL	45	230
			Phenanthrene	BDL	Not Listed	Not Listed
			Pyrene	BDL	3,600	67,000

Residential Standards - OAC 3745-300-08; Commercial Standards - OAC 3745-300-08
TPH – Total Petroleum Hydrocarbons
BDL – Below Detection Limits
**BUSTR TPH Action Levels*
(1) - Analyzed by Method 8260; (2) - Analyzed by Method 8270

Soil Boring #6: Summary Table of Test Results

Boring ID	Sample Depth (ft)	Sample Collection Date	Parameter	Result (mg/kg)	Regulatory Action Level (mg/kg)	
					Residential	Commercial /Industrial
Soil Boring (SB) 6	6'-10'	April 4, 2025	TPH C6-C12	**43.5**	1000*	1000*
			TPH C10-C20	**184.0**	2000*	2000*
			TPH C20-C34	**35.9**	5000*	5000*
			4-Isopropyltoluebe	BDL	Not Listed	Not Listed
			Acetone	BDL	110,000	110,000
			Ethylbenzene	BDL	140	480
			Isopropylbenzene	**0.734**	270	270
			m+p-Xylene	BDL	Not Listed	Not Listed
			Naphthalene (1)	**0.509**	45	230
			n-Butylbenzene	**0.736**	110	110
			n-Propylbenzene	**3.10**	Not Listed	Not Listed
			Sec-Butylbenzene	**0.355**	Not Listed	Not Listed
			Total Xylene	BDL	260	260
			1-Methylnaphthalene	**2.31**	0.46	1.9
			2-Methylnaphthalene	**0.65**	480	8,900
			Acenaphthylene	BDL	Not Listed	Not Listed
			Anthracene	BDL	36,000	670,000
			Benzo(a)anthracene	BDL	23	610
			Benzo(a)pyrene	BDL	2.3	62
			Benzo(b)fluoranthene	BDL	23	620
			Benzo(g,h,i)perylene	BDL	Not Listed	Not Listed
			Benzo(k)fluoranthene	BDL	230	6,200
			Carbazole	BDL	Not Listed	Not Listed
			Chrysene	BDL	2,300	62,000
			Dibenzo(a,h)anthracene	BDL	2.3	62
			Dibenzofuran	BDL	Not Listed	Not Listed
			Fluoranthene	BDL	4,800	89,000
			Fluorene	BDL	1,200	89,000
			Indeno(1,2,3-cd)pyrene	BDL	23	620
			Naphthalene (2)	**0.524**	45	230
			Phenanthrene	BDL	Not Listed	Not Listed
			Pyrene	BDL	3,600	67,000

Residential Standards - OAC 3745-300-08; Commercial Standards - OAC 3745-300-08
TPH – Total Petroleum Hydrocarbons
BDL – Below Detection Limits
**BUSTR TPH Action Levels*
(1) - Analyzed by Method 8260; (2) - Analyzed by Method 8270

CALIBRATION LOG

Project Name: RMR Investigation HAR-US 68_SR 31-0.00 By: Edward A. Council, PhD, PG

Project No.: CSS – 004 Date: 4/4/2025

Date/Time	Instrument	Standard Used	Standard Concentration	Meter Reading	Comments
4/3/25 3:25	ppbRAE3000	Isobutylene	10 ppm	9.99 ppm	Stable Readings

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April 29, 2025

Edward Council
Advanced Geologic Sciences, LLC
252 N. King St.
Xenia, OH 45385

Work Order: **CC2502268**

Re: **Kenton Ohio RMR**

Dear Edward,

Enclosed are the results of the sample(s) submitted to our laboratory.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested.

QC sample results for this data met laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Laboratory Group. Samples will be disposed in 30 days unless storage arrangements are made.

If you have any questions regarding this report, please feel free to contact me.

Rob Nieman
/S/ ROB NIEMAN

Project Manager

Client: Advanced Geologic Sciences, LLC **Work Order:** CC2502268

Project: Kenton Ohio RMR **Date Received:** 07-Apr-2025

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples for the Tier II level requested by the client.

Sample Receipt

6 soil/solid samples were received for analysis at ALS Environmental on 07-Apr-2025. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.

Sample: CC2502268-005

Surrogate failure due to hydrocarbons.

SAMPLE SUMMARY

Client: Advanced Geologic Sciences, LLC
Project: Kenton Ohio RMR
Workorder: CC2502268

Laboratory Sample ID	Client Sample ID	Sample Matrix	Collection Date	Date Received
CC2502268-001	SB-1 (8-12)	SOIL/SOLID	04/04/25 10:00	04/07/25 10:30
CC2502268-002	SB-2 (6-8)	SOIL/SOLID	04/04/25 10:30	04/07/25 10:30
CC2502268-003	SB-3 (8-10)	SOIL/SOLID	04/04/25 10:59	04/07/25 10:30
CC2502268-004	SB-4 (8-10)	SOIL/SOLID	04/04/25 11:20	04/07/25 10:30
CC2502268-005	SB-5 (4-6)	SOIL/SOLID	04/04/25 11:46	04/07/25 10:30
CC2502268-006	SB-6 (6-10)	SOIL/SOLID	04/04/25 12:10	04/07/25 10:30

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ALS Cincinnati Sample Receiving Checklist

Received by:	ALS carrier
Date/Time:	4-7-25 1030
Carrier Name:	Daniel Sizemore
Shipping container/cooler in good condition?	(Yes) / No
Custody seals intact on shipping container/cooler?	Yes / No / ~~N/A~~
Custody seals intact on sample bottles?	Yes / No / ~~N/A~~
Chain of Custody present?	(Yes) / No
COC signed when relinquished and received?	~~Yes~~ / No
COC agrees with sample labels?	~~Yes~~ / No
Samples in proper container/bottle?	~~Yes~~ / No
Sample containers intact?	~~Yes~~ / No
Sufficient sample volume for indicated test?	~~Yes~~ / No
All samples received within holding time?	~~Yes~~ / No
Temperature(s) (°C):	2.6°C
Thermometer #:	120489
Sample(s) received on ice?	(Yes) / No
Matrix/Matrices:	S
Date/Time sample(s) sent to storage:	4-7-25 1613
Water – VOA vials have zero headspace?	Yes / No / (No Vials)

Login Notes:

REPORT QUALIFIERS AND DEFINITIONS

*	Value exceeds Regulatory Limit (if MCL displayed)
a	Analyte is non-accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte is present at an estimated concentration between the MDL and Report Limit
n	Analyte accreditation is not offered
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL
V	The Continuing Calibration Verification was outside control criteria.
X	Analyte was detected in the Method Blank between the MDL and Reporting Limit, sample results may exhibit background or reagent contamination at the observed level.

ALS CINCINNATI CERTIFICATION PROGRAMS

American Industrial Hygiene Association-Lab Accreditation Program (AIHA LAP, LLC): Lab Code: 100921, Inorganic Analyses by Ion Chromatography, Inductively Coupled Plasma Spectroscopy, Atomic Absorption-Cold Vapor Spectroscopy and Gravimetric Techniques, Organic Analyses by HPLC and Gas Chromatography, Asbestos Air Analyses by Optical Microscopy (PCM) and Electron Microscopy (TEM) and Asbestos Bulk Analyses by Optical Analyses (PLM).

AIHA LAP, LLC Environmental Lead Laboratory Accreditation Program (ELLAP): Lab Code: 100921, Lead Paint, Wipes, Air and Soils/Bulks.

National Institute of Standards and Technology National Voluntary Laboratory Accreditation Program (NIST NVLAP): Lab Code: 101917-0, Bulk Asbestos by PLM and AHERA (air) by TEM.

Ohio EPA Voluntary Action Plan (VAP): We are considered a VAP accredited lab through our NELAP, AIHA-LAP, and NVLAP accreditations (soil, water, air).

Ohio Department of Health Radioactive Materials License

Ohio Department of Health: Lead Poisoning Prevention Program: Lab Code: 10001, Lead Paint, Wipes, Air and Soils/Bulks

** See the certificate and scope for specific analytes

Client:	Advanced Geologic Sciences, LLC	**Work Order:**	CC2502268
Project:	Kenton Ohio RMR	**Date Collected:**	04/04/25 10:00
Matrix:	SOIL/SOLID	**Date Received:**	04/07/25 10:30

CLIENT ID: SB-1 (8-12) **Lab ID: CC2502268-001**

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Diesel Range Organics by GC-FID								
Diesel Range Organics C10-C20	EPA 8015B	**23.8**		mg/kg-dry	17.6	1	04/28/25 15:18	04/16/25 09:03
Oil Range Organics C20-C34	EPA 8015B	**48.4**		mg/kg-dry	17.6	1	04/28/25 15:18	04/16/25 09:03
Surr: n-Nonane	*EPA 8015B*	***94.7***	*S*	*%REC*	*33-88*	*1*	*04/28/25 15:18*	*04/16/25 09:03*
Surr: n-Pentacosane	*EPA 8015B*	***135***	*S*	*%REC*	*40.9-99.9*	*1*	*04/28/25 15:18*	*04/16/25 09:03*
Gasoline Range Organics by GC-FID								
Gasoline Range Organics C6-C12	EPA 8015A	<2.65		mg/kg-dry	2.65	1	04/14/25 09:30	04/14/25 09:27
Surr: Cyclooctane	*EPA 8015A*	***101***		*%REC*	*65.2-156*	*1*	*04/14/25 09:30*	*04/14/25 09:27*
General Chemistry Parameters								
Percent Moisture	SM 2540 B-2016	**24.5**		%	0.1	1	04/11/25 15:00	NA
Semivolatile Organic Compounds by GC-MS								
1,2,4,5-Tetrachlorobenzene	EPA 8270C	<437		µg/kg-dry	437	1	04/16/25 14:08	04/15/25 11:22
1,2,4-Trichlorobenzene	EPA 8270C	<437		µg/kg-dry	437	1	04/16/25 14:08	04/15/25 11:22
1,2-Dichlorobenzene (o-Dichlorobenzene)	EPA 8270C	<437		µg/kg-dry	437	1	04/16/25 14:08	04/15/25 11:22
1,3-Dichlorobenzene (m-Dichlorobenzene)	EPA 8270C	<437		µg/kg-dry	437	1	04/16/25 14:08	04/15/25 11:22
1,3-Dinitrobenzene (1,3-DNB)	EPA 8270C	<437		µg/kg-dry	437	1	04/16/25 14:08	04/15/25 11:22
1,4-Dichlorobenzene (p-Dichlorobenzene)	EPA 8270C	<437		µg/kg-dry	437	1	04/16/25 14:08	04/15/25 11:22
1-Methylnaphthalene	EPA 8270C	<265		µg/kg-dry	265	1	04/16/25 14:08	04/15/25 11:22
1-Naphthylamine	EPA 8270C	<437		µg/kg-dry	437	1	04/16/25 14:08	04/15/25 11:22
2,2'-Oxybis(1-chloropropane), bis(2-Chloro-1-methylethyl) ether	EPA 8270C	<437		µg/kg-dry	437	1	04/16/25 14:08	04/15/25 11:22
2,3,4,6-Tetrachlorophenol	EPA 8270C	<437		µg/kg-dry	437	1	04/16/25 14:08	04/15/25 11:22
2,4,5-Trichlorophenol	EPA 8270C	<437		µg/kg-dry	437	1	04/16/25 14:08	04/15/25 11:22
2,4,6-Trichlorophenol	EPA 8270C	<437		µg/kg-dry	437	1	04/16/25 14:08	04/15/25 11:22
2,4-Dichlorophenol	EPA 8270C	<437		µg/kg-dry	437	1	04/16/25 14:08	04/15/25 11:22

Client:	Advanced Geologic Sciences, LLC	**Work Order:**	CC2502268
Project:	Kenton Ohio RMR	**Date Collected:**	04/04/25 10:00
Matrix:	SOIL/SOLID	**Date Received:**	04/07/25 10:30

CLIENT ID: SB-1 (8-12) **Lab ID: CC2502268-001**

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
2,4-Dimethylphenol	EPA 8270C	<437		µg/kg-dry	437	1	04/16/25 14:08	04/15/25 11:22
2,4-Dinitrophenol	EPA 8270C	<2190		µg/kg-dry	2190	1	04/16/25 14:08	04/15/25 11:22
2,4-Dinitrotoluene (2,4-DNT)	EPA 8270C	<437		µg/kg-dry	437	1	04/16/25 14:08	04/15/25 11:22
2,6-Dichlorophenol	EPA 8270C	<437		µg/kg-dry	437	1	04/16/25 14:08	04/15/25 11:22
2,6-Dinitrotoluene (2,6-DNT)	EPA 8270C	<437		µg/kg-dry	437	1	04/16/25 14:08	04/15/25 11:22
2-Acetylaminofluorene	EPA 8270C	<437		µg/kg-dry	437	1	04/16/25 14:08	04/15/25 11:22
2-Amino-4-nitrotoluene (5-Nitro-o-toluidine)	EPA 8270C	<437		µg/kg-dry	437	1	04/16/25 14:08	04/15/25 11:22
2-Chloronaphthalene	EPA 8270C	<437		µg/kg-dry	437	1	04/16/25 14:08	04/15/25 11:22
2-Chlorophenol	EPA 8270C	<437		µg/kg-dry	437	1	04/16/25 14:08	04/15/25 11:22
2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	EPA 8270C	<2190		µg/kg-dry	2190	1	04/16/25 14:08	04/15/25 11:22
2-Methylaniline (o-Toluidine)	EPA 8270C	<2190		µg/kg-dry	2190	1	04/16/25 14:08	04/15/25 11:22
2-Methylnaphthalene	EPA 8270C	<265		µg/kg-dry	265	1	04/16/25 14:08	04/15/25 11:22
2-Methylphenol (o-Cresol)	EPA 8270C	<437		µg/kg-dry	437	1	04/16/25 14:08	04/15/25 11:22
2-Naphthylamine	EPA 8270C	<437		µg/kg-dry	437	1	04/16/25 14:08	04/15/25 11:22
2-Nitroaniline	EPA 8270C	<2190		µg/kg-dry	2190	1	04/16/25 14:08	04/15/25 11:22
2-Nitrophenol	EPA 8270C	<437		µg/kg-dry	437	1	04/16/25 14:08	04/15/25 11:22
2-Picoline (2-Methylpyridine)	EPA 8270C	<437		µg/kg-dry	437	1	04/16/25 14:08	04/15/25 11:22
3&4-Methylphenol	EPA 8270C	<437		µg/kg-dry	437	1	04/16/25 14:08	04/15/25 11:22
3,3'-Dichlorobenzidine	EPA 8270C	<873		µg/kg-dry	873	1	04/16/25 14:08	04/15/25 11:22
3-Methylcholanthrene	EPA 8270C	<437		µg/kg-dry	437	1	04/16/25 14:08	04/15/25 11:22
3-Nitroaniline	EPA 8270C	<2190		µg/kg-dry	2190	1	04/16/25 14:08	04/15/25 11:22
4-Aminobiphenyl	EPA 8270C	<873		µg/kg-dry	873	1	04/16/25 14:08	04/15/25 11:22
4-Bromophenyl phenyl ether (BDE-3)	EPA 8270C	<437		µg/kg-dry	437	1	04/16/25 14:08	04/15/25 11:22

Client:	Advanced Geologic Sciences, LLC	**Work Order:**	CC2502268
Project:	Kenton Ohio RMR	**Date Collected:**	04/04/25 10:00
Matrix:	SOIL/SOLID	**Date Received:**	04/07/25 10:30

CLIENT ID: SB-1 (8-12) **Lab ID: CC2502268-001**

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
4-Chloro-3-methylphenol	EPA 8270C	<873		µg/kg-dry	873	1	04/16/25 14:08	04/15/25 11:22
4-Chloroaniline	EPA 8270C	<873		µg/kg-dry	873	1	04/16/25 14:08	04/15/25 11:22
4-Chlorophenyl phenylether	EPA 8270C	<437		µg/kg-dry	437	1	04/16/25 14:08	04/15/25 11:22
4-Dimethyl aminoazobenzene	EPA 8270C	<437		µg/kg-dry	437	1	04/16/25 14:08	04/15/25 11:22
4-Nitroaniline	EPA 8270C	<873		µg/kg-dry	873	1	04/16/25 14:08	04/15/25 11:22
4-Nitrophenol	EPA 8270C	<2190		µg/kg-dry	2190	1	04/16/25 14:08	04/15/25 11:22
4-Nitroquinoline-1-oxide	EPA 8270C	<2190		µg/kg-dry	2190	1	04/16/25 14:08	04/15/25 11:22
7,12-Dimethylbenz(a) anthracene	EPA 8270C	<437		µg/kg-dry	437	1	04/16/25 14:08	04/15/25 11:22
Acenaphthene	EPA 8270C	<265		µg/kg-dry	265	1	04/16/25 14:08	04/15/25 11:22
Acenaphthylene	EPA 8270C	<265		µg/kg-dry	265	1	04/16/25 14:08	04/15/25 11:22
Acetophenone	EPA 8270C	<437		µg/kg-dry	437	1	04/16/25 14:08	04/15/25 11:22
Aniline	EPA 8270C	<437		µg/kg-dry	437	1	04/16/25 14:08	04/15/25 11:22
Anthracene	EPA 8270C	<265		µg/kg-dry	265	1	04/16/25 14:08	04/15/25 11:22
Azobenzene	EPA 8270C	<437		µg/kg-dry	437	1	04/16/25 14:08	04/15/25 11:22
Benzidine	EPA 8270C	<437		µg/kg-dry	437	1	04/16/25 14:08	04/15/25 11:22
Benzo(a)anthracene	EPA 8270C	<132		µg/kg-dry	132	1	04/16/25 14:08	04/15/25 11:22
Benzo(a)pyrene	EPA 8270C	<132		µg/kg-dry	132	1	04/16/25 14:08	04/15/25 11:22
Benzo(b)fluoranthene	EPA 8270C	<265		µg/kg-dry	265	1	04/16/25 14:08	04/15/25 11:22
Benzo(g,h,i)perylene	EPA 8270C	<265		µg/kg-dry	265	1	04/16/25 14:08	04/15/25 11:22
Benzo(k)fluoranthene	EPA 8270C	<265		µg/kg-dry	265	1	04/16/25 14:08	04/15/25 11:22
Benzyl alcohol	EPA 8270C	<873		µg/kg-dry	873	1	04/16/25 14:08	04/15/25 11:22
bis(2-Chloroethoxy) methane	EPA 8270C	<437		µg/kg-dry	437	1	04/16/25 14:08	04/15/25 11:22
bis(2-Chloroethyl) ether	EPA 8270C	<437		µg/kg-dry	437	1	04/16/25 14:08	04/15/25 11:22
Butyl benzyl phthalate	EPA 8270C	<437		µg/kg-dry	437	1	04/16/25 14:08	04/15/25 11:22

Client:	Advanced Geologic Sciences, LLC	**Work Order:**	CC2502268
Project:	Kenton Ohio RMR	**Date Collected:**	04/04/25 10:00
Matrix:	SOIL/SOLID	**Date Received:**	04/07/25 10:30

CLIENT ID: SB-1 (8-12) **Lab ID: CC2502268-001**

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Carbazole	EPA 8270C	<265		µg/kg-dry	265	1	04/16/25 14:08	04/15/25 11:22
Chrysene	EPA 8270C	<265		µg/kg-dry	265	1	04/16/25 14:08	04/15/25 11:22
Di(2-ethylhexyl) phthalate (bis(2-Ethylhexyl) phthalate, DEHP)	EPA 8270C	<437		µg/kg-dry	437	1	04/16/25 14:08	04/15/25 11:22
Dibenz(a,h) anthracene	EPA 8270C	<132		µg/kg-dry	132	1	04/16/25 14:08	04/15/25 11:22
Dibenzofuran	EPA 8270C	<265		µg/kg-dry	265	1	04/16/25 14:08	04/15/25 11:22
Diethyl phthalate	EPA 8270C	<437		µg/kg-dry	437	1	04/16/25 14:08	04/15/25 11:22
Dimethyl phthalate	EPA 8270C	<437		µg/kg-dry	437	1	04/16/25 14:08	04/15/25 11:22
Di-n-butyl phthalate	EPA 8270C	<437		µg/kg-dry	437	1	04/16/25 14:08	04/15/25 11:22
Di-n-octyl phthalate	EPA 8270C	<437		µg/kg-dry	437	1	04/16/25 14:08	04/15/25 11:22
Dinoseb (2-sec-butyl-4,6-dinitrophenol, DNBP)	EPA 8270C	<437		µg/kg-dry	437	1	04/16/25 14:08	04/15/25 11:22
Diphenylamine	EPA 8270C	<437		µg/kg-dry	437	1	04/16/25 14:08	04/15/25 11:22
Ethyl methanesulfonate	EPA 8270C	<437		µg/kg-dry	437	1	04/16/25 14:08	04/15/25 11:22
Fluoranthene	EPA 8270C	<265		µg/kg-dry	265	1	04/16/25 14:08	04/15/25 11:22
Fluorene	EPA 8270C	<265		µg/kg-dry	265	1	04/16/25 14:08	04/15/25 11:22
Hexachlorobenzene	EPA 8270C	<437		µg/kg-dry	437	1	04/16/25 14:08	04/15/25 11:22
Hexachlorobutadiene	EPA 8270C	<437		µg/kg-dry	437	1	04/16/25 14:08	04/15/25 11:22
Hexachlorocyclopentadiene	EPA 8270C	<437		µg/kg-dry	437	1	04/16/25 14:08	04/15/25 11:22
Hexachloroethane	EPA 8270C	<437		µg/kg-dry	437	1	04/16/25 14:08	04/15/25 11:22
Indeno(1,2,3-cd) pyrene	EPA 8270C	<132		µg/kg-dry	132	1	04/16/25 14:08	04/15/25 11:22
Isophorone	EPA 8270C	<437		µg/kg-dry	437	1	04/16/25 14:08	04/15/25 11:22
Isosafrole	EPA 8270C	<437		µg/kg-dry	437	1	04/16/25 14:08	04/15/25 11:22
Methapyrilene	EPA 8270C	<2190		µg/kg-dry	2190	1	04/16/25 14:08	04/15/25 11:22
Methyl methanesulfonate	EPA 8270C	<437		µg/kg-dry	437	1	04/16/25 14:08	04/15/25 11:22

Client:	Advanced Geologic Sciences, LLC	**Work Order:**	CC2502268
Project:	Kenton Ohio RMR	**Date Collected:**	04/04/25 10:00
Matrix:	SOIL/SOLID	**Date Received:**	04/07/25 10:30

CLIENT ID: SB-1 (8-12) **Lab ID: CC2502268-001**

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Methylphenol, Total	EPA 8270C	<873		µg/kg-dry	873	1	04/16/25 14:08	04/15/25 11:22
Naphthalene	EPA 8270C	<265		µg/kg-dry	265	1	04/16/25 14:08	04/15/25 11:22
Nitrobenzene	EPA 8270C	<437		µg/kg-dry	437	1	04/16/25 14:08	04/15/25 11:22
n-Nitrosodiethylamine	EPA 8270C	<437		µg/kg-dry	437	1	04/16/25 14:08	04/15/25 11:22
n-Nitrosodimethylamine	EPA 8270C	<437		µg/kg-dry	437	1	04/16/25 14:08	04/15/25 11:22
n-Nitroso-di-n-butylamine	EPA 8270C	<437		µg/kg-dry	437	1	04/16/25 14:08	04/15/25 11:22
n-Nitrosodi-n-propylamine	EPA 8270C	<437		µg/kg-dry	437	1	04/16/25 14:08	04/15/25 11:22
n-Nitrosomethylethylamine	EPA 8270C	<437		µg/kg-dry	437	1	04/16/25 14:08	04/15/25 11:22
n-Nitrosomorpholine	EPA 8270C	<437		µg/kg-dry	437	1	04/16/25 14:08	04/15/25 11:22
n-Nitrosopiperidine	EPA 8270C	<437		µg/kg-dry	437	1	04/16/25 14:08	04/15/25 11:22
n-Nitrosopyrrolidine	EPA 8270C	<437		µg/kg-dry	437	1	04/16/25 14:08	04/15/25 11:22
Pentachlorobenzene	EPA 8270C	<437		µg/kg-dry	437	1	04/16/25 14:08	04/15/25 11:22
Pentachloroethane	EPA 8270C	<437		µg/kg-dry	437	1	04/16/25 14:08	04/15/25 11:22
Pentachloronitrobenzene	EPA 8270C	<873		µg/kg-dry	873	1	04/16/25 14:08	04/15/25 11:22
Pentachlorophenol	EPA 8270C	<2190		µg/kg-dry	2190	1	04/16/25 14:08	04/15/25 11:22
Phenacetin	EPA 8270C	<873		µg/kg-dry	873	1	04/16/25 14:08	04/15/25 11:22
Phenanthrene	EPA 8270C	<265		µg/kg-dry	265	1	04/16/25 14:08	04/15/25 11:22
Phenol	EPA 8270C	<437		µg/kg-dry	437	1	04/16/25 14:08	04/15/25 11:22
Pyrene	EPA 8270C	<265		µg/kg-dry	265	1	04/16/25 14:08	04/15/25 11:22
Pyridine	EPA 8270C	<437		µg/kg-dry	437	1	04/16/25 14:08	04/15/25 11:22
Safrole	EPA 8270C	<437		µg/kg-dry	437	1	04/16/25 14:08	04/15/25 11:22
Surr: 2,4,6-Tribromophenol	*EPA 8270C*	***71.2***		*%REC*	*14.2-136*	*1*	*04/16/25 14:08*	*04/15/25 11:22*
Surr: 2-Fluorobiphenyl	*EPA 8270C*	***68.2***		*%REC*	*30-116*	*1*	*04/16/25 14:08*	*04/15/25 11:22*
Surr: 2-Fluorophenol	*EPA 8270C*	***70.2***		*%REC*	*5.42-113*	*1*	*04/16/25 14:08*	*04/15/25 11:22*
Surr: 4-Terphenyl-d14	*EPA 8270C*	***78.2***		*%REC*	*27.3-138*	*1*	*04/16/25 14:08*	*04/15/25 11:22*

Client:	Advanced Geologic Sciences, LLC	**Work Order:**	CC2502268
Project:	Kenton Ohio RMR	**Date Collected:**	04/04/25 10:00
Matrix:	SOIL/SOLID	**Date Received:**	04/07/25 10:30

CLIENT ID: SB-1 (8-12) **Lab ID: CC2502268-001**

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Surr: Nitrobenzene-d5	*EPA 8270C*	***71.5***		*%REC*	*23.7-109*	*1*	*04/16/25 14:08*	*04/15/25 11:22*
Surr: Phenol-d6	*EPA 8270C*	***73.7***		*%REC*	*13.8-108*	*1*	*04/16/25 14:08*	*04/15/25 11:22*
Volatile Organic Compounds by GC-MS								
1,1,1,2-Tetrachloroethane	EPA 8260B	<6.62		µg/kg-dry	6.62	1	04/15/25 13:02	04/15/25 09:00
1,1,1-Trichloroethane	EPA 8260B	<6.62		µg/kg-dry	6.62	1	04/15/25 13:02	04/15/25 09:00
1,1,2,2-Tetrachloroethane	EPA 8260B	<6.62		µg/kg-dry	6.62	1	04/15/25 13:02	04/15/25 09:00
1,1,2-Trichloroethane	EPA 8260B	<6.62		µg/kg-dry	6.62	1	04/15/25 13:02	04/15/25 09:00
1,1-Dichloroethane	EPA 8260B	<6.62		µg/kg-dry	6.62	1	04/15/25 13:02	04/15/25 09:00
1,1-Dichloroethylene	EPA 8260B	<6.62		µg/kg-dry	6.62	1	04/15/25 13:02	04/15/25 09:00
1,1-Dichloropropene	EPA 8260B	<6.62		µg/kg-dry	6.62	1	04/15/25 13:02	04/15/25 09:00
1,2,3-Trichlorobenzene	EPA 8260B	<6.62		µg/kg-dry	6.62	1	04/15/25 13:02	04/15/25 09:00
1,2,3-Trichloropropane	EPA 8260B	<6.62		µg/kg-dry	6.62	1	04/15/25 13:02	04/15/25 09:00
1,2,4-Trichlorobenzene	EPA 8260B	<6.62		µg/kg-dry	6.62	1	04/15/25 13:02	04/15/25 09:00
1,2,4-Trimethylbenzene	EPA 8260B	<6.62		µg/kg-dry	6.62	1	04/15/25 13:02	04/15/25 09:00
1,2-Dibromo-3-chloropropane (DBCP)	EPA 8260B	<6.62		µg/kg-dry	6.62	1	04/15/25 13:02	04/15/25 09:00
1,2-Dibromoethane (EDB, Ethylene dibromide)	EPA 8260B	<1.02		µg/kg-dry	1.02	1	04/15/25 13:02	04/15/25 09:00
1,2-Dichlorobenzene (o-Dichlorobenzene)	EPA 8260B	<6.62		µg/kg-dry	6.62	1	04/15/25 13:02	04/15/25 09:00
1,2-Dichloroethane (Ethylene dichloride)	EPA 8260B	<6.62		µg/kg-dry	6.62	1	04/15/25 13:02	04/15/25 09:00
1,2-Dichloropropane	EPA 8260B	<6.62		µg/kg-dry	6.62	1	04/15/25 13:02	04/15/25 09:00
1,3,5-Trimethylbenzene	EPA 8260B	<6.62		µg/kg-dry	6.62	1	04/15/25 13:02	04/15/25 09:00
1,3-Dichlorobenzene (m-Dichlorobenzene)	EPA 8260B	<6.62		µg/kg-dry	6.62	1	04/15/25 13:02	04/15/25 09:00
1,3-Dichloropropane	EPA 8260B	<6.62		µg/kg-dry	6.62	1	04/15/25 13:02	04/15/25 09:00
1,3-Dichloropropene	EPA 8260B	<13.2		µg/kg-dry	13.2	1	04/15/25 13:02	04/15/25 09:00
1,4-Dichlorobenzene (p-Dichlorobenzene)	EPA 8260B	<6.62		µg/kg-dry	6.62	1	04/15/25 13:02	04/15/25 09:00

Client:	Advanced Geologic Sciences, LLC	**Work Order:**	CC2502268
Project:	Kenton Ohio RMR	**Date Collected:**	04/04/25 10:00
Matrix:	SOIL/SOLID	**Date Received:**	04/07/25 10:30

CLIENT ID: SB-1 (8-12) **Lab ID: CC2502268-001**

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
2,2-Dichloropropane	EPA 8260B	<6.62		µg/kg-dry	6.62	1	04/15/25 13:02	04/15/25 09:00
2-Butanone (Methyl ethyl ketone, MEK)	EPA 8260B	<66.2		µg/kg-dry	66.2	1	04/15/25 13:02	04/15/25 09:00
2-Chlorotoluene	EPA 8260B	<6.62		µg/kg-dry	6.62	1	04/15/25 13:02	04/15/25 09:00
2-Hexanone	EPA 8260B	<6.62		µg/kg-dry	6.62	1	04/15/25 13:02	04/15/25 09:00
4-Chlorotoluene	EPA 8260B	<6.62		µg/kg-dry	6.62	1	04/15/25 13:02	04/15/25 09:00
4-Isopropyltoluene (p-Cymene)	EPA 8260B	<6.62		µg/kg-dry	6.62	1	04/15/25 13:02	04/15/25 09:00
4-Methyl-2-pentanone (MIBK)	EPA 8260B	<6.62		µg/kg-dry	6.62	1	04/15/25 13:02	04/15/25 09:00
Acetone	EPA 8260B	<66.2		µg/kg-dry	66.2	1	04/15/25 13:02	04/15/25 09:00
Benzene	EPA 8260B	<6.62		µg/kg-dry	6.62	1	04/15/25 13:02	04/15/25 09:00
Bromobenzene	EPA 8260B	<6.62		µg/kg-dry	6.62	1	04/15/25 13:02	04/15/25 09:00
Bromochloromethane	EPA 8260B	<6.62		µg/kg-dry	6.62	1	04/15/25 13:02	04/15/25 09:00
Bromodichloromethane	EPA 8260B	<6.62		µg/kg-dry	6.62	1	04/15/25 13:02	04/15/25 09:00
Bromoform	EPA 8260B	<6.62		µg/kg-dry	6.62	1	04/15/25 13:02	04/15/25 09:00
Carbon disulfide	EPA 8260B	<6.62		µg/kg-dry	6.62	1	04/15/25 13:02	04/15/25 09:00
Carbon tetrachloride	EPA 8260B	<6.62		µg/kg-dry	6.62	1	04/15/25 13:02	04/15/25 09:00
Chlorobenzene	EPA 8260B	<6.62		µg/kg-dry	6.62	1	04/15/25 13:02	04/15/25 09:00
Chlorodibromomethane	EPA 8260B	<6.62		µg/kg-dry	6.62	1	04/15/25 13:02	04/15/25 09:00
Chloroethane (Ethyl chloride)	EPA 8260B	<6.62		µg/kg-dry	6.62	1	04/15/25 13:02	04/15/25 09:00
Chloroform	EPA 8260B	<6.62		µg/kg-dry	6.62	1	04/15/25 13:02	04/15/25 09:00
cis & trans-1,2-Dichloroethene	EPA 8260B	<13.2		µg/kg-dry	13.2	1	04/15/25 13:02	04/15/25 09:00
cis-1,2-Dichloroethylene	EPA 8260B	<6.62		µg/kg-dry	6.62	1	04/15/25 13:02	04/15/25 09:00
cis-1,3-Dichloropropene	EPA 8260B	<6.62		µg/kg-dry	6.62	1	04/15/25 13:02	04/15/25 09:00
Dibromomethane (Methylene bromide)	EPA 8260B	<6.62		µg/kg-dry	6.62	1	04/15/25 13:02	04/15/25 09:00
Dichlorodifluoromethane (Freon-12)	EPA 8260B	<10.6		µg/kg-dry	10.6	1	04/15/25 13:02	04/15/25 09:00

Client:	Advanced Geologic Sciences, LLC	**Work Order:**	CC2502268
Project:	Kenton Ohio RMR	**Date Collected:**	04/04/25 10:00
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CLIENT ID: SB-1 (8-12) **Lab ID: CC2502268-001**

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Ethylbenzene	EPA 8260B	<6.62		µg/kg-dry	6.62	1	04/15/25 13:02	04/15/25 09:00
Hexachlorobutadiene	EPA 8260B	<6.62		µg/kg-dry	6.62	1	04/15/25 13:02	04/15/25 09:00
Isopropylbenzene	EPA 8260B	<6.62		µg/kg-dry	6.62	1	04/15/25 13:02	04/15/25 09:00
m+p-Xylene	EPA 8260B	<13.2		µg/kg-dry	13.2	1	04/15/25 13:02	04/15/25 09:00
Methyl bromide (Bromomethane)	EPA 8260B	<6.62		µg/kg-dry	6.62	1	04/15/25 13:02	04/15/25 09:00
Methyl chloride (Chloromethane)	EPA 8260B	<6.62		µg/kg-dry	6.62	1	04/15/25 13:02	04/15/25 09:00
Methyl tert-butyl ether (MTBE)	EPA 8260B	<6.62		µg/kg-dry	6.62	1	04/15/25 13:02	04/15/25 09:00
Methylene chloride (Dichloromethane)	EPA 8260B	<26.5		µg/kg-dry	26.5	1	04/15/25 13:02	04/15/25 09:00
Naphthalene	EPA 8260B	<6.62		µg/kg-dry	6.62	1	04/15/25 13:02	04/15/25 09:00
n-Butylbenzene	EPA 8260B	<6.62		µg/kg-dry	6.62	1	04/15/25 13:02	04/15/25 09:00
n-Propylbenzene	EPA 8260B	<6.62		µg/kg-dry	6.62	1	04/15/25 13:02	04/15/25 09:00
o-Xylene	EPA 8260B	<6.62		µg/kg-dry	6.62	1	04/15/25 13:02	04/15/25 09:00
sec-Butylbenzene	EPA 8260B	<6.62		µg/kg-dry	6.62	1	04/15/25 13:02	04/15/25 09:00
Styrene	EPA 8260B	<6.62		µg/kg-dry	6.62	1	04/15/25 13:02	04/15/25 09:00
tert-Butylbenzene	EPA 8260B	<6.62		µg/kg-dry	6.62	1	04/15/25 13:02	04/15/25 09:00
Tetrachloroethylene (Perchloroethylene)	EPA 8260B	<6.62		µg/kg-dry	6.62	1	04/15/25 13:02	04/15/25 09:00
Toluene	EPA 8260B	<6.62		µg/kg-dry	6.62	1	04/15/25 13:02	04/15/25 09:00
Total Xylene	EPA 8260B	<19.9		µg/kg-dry	19.9	1	04/15/25 13:02	04/15/25 09:00
trans-1,2-Dichloroethylene	EPA 8260B	<6.62		µg/kg-dry	6.62	1	04/15/25 13:02	04/15/25 09:00
trans-1,3-Dichloropropylene	EPA 8260B	<6.62		µg/kg-dry	6.62	1	04/15/25 13:02	04/15/25 09:00
Trichloroethene (Trichloroethylene)	EPA 8260B	<6.62		µg/kg-dry	6.62	1	04/15/25 13:02	04/15/25 09:00
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	EPA 8260B	<6.62		µg/kg-dry	6.62	1	04/15/25 13:02	04/15/25 09:00
Vinyl chloride (Chloroethene)	EPA 8260B	<6.62		µg/kg-dry	6.62	1	04/15/25 13:02	04/15/25 09:00
Surr: 4-Bromofluorobenzene	*EPA 8260B*	***99.6***		*%REC*	*78.9-128*	*1*	*04/15/25 13:02*	*04/15/25 09:00*

Client:	Advanced Geologic Sciences, LLC	**Work Order:**	CC2502268
Project:	Kenton Ohio RMR	**Date Collected:**	04/04/25 10:00
Matrix:	SOIL/SOLID	**Date Received:**	04/07/25 10:30

CLIENT ID: SB-1 (8-12) **Lab ID: CC2502268-001**

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Surr: Dibromofluoromethane	*EPA 8260B*	***104***		*%REC*	*79.1-140*	*1*	*04/15/25 13:02*	*04/15/25 09:00*
Surr: Toluene-d8	*EPA 8260B*	***104***		*%REC*	*84.5-124*	*1*	*04/15/25 13:02*	*04/15/25 09:00*

Client:	Advanced Geologic Sciences, LLC	**Work Order:**	CC2502268
Project:	Kenton Ohio RMR	**Date Collected:**	04/04/25 10:30
Matrix:	SOIL/SOLID	**Date Received:**	04/07/25 10:30

CLIENT ID: SB-2 (6-8) **Lab ID: CC2502268-002**

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Diesel Range Organics by GC-FID								
Diesel Range Organics C10-C20	EPA 8015B	<16.2		mg/kg-dry	16.2	1	04/21/25 14:25	04/17/25 15:10
Oil Range Organics C20-C34	EPA 8015B	<16.2		mg/kg-dry	16.2	1	04/21/25 14:25	04/17/25 15:10
Surr: n-Nonane	*EPA 8015B*	***78.7***		*%REC*	*33-88*	*1*	*04/21/25 14:25*	*04/17/25 15:10*
Surr: n-Pentacosane	*EPA 8015B*	***83.1***		*%REC*	*40.9-99.9*	*1*	*04/21/25 14:25*	*04/17/25 15:10*
Gasoline Range Organics by GC-FID								
Gasoline Range Organics C6-C12	EPA 8015A	<2.43		mg/kg-dry	2.43	1	04/15/25 08:56	04/15/25 08:54
Surr: Cyclooctane	*EPA 8015A*	***91.7***		*%REC*	*65.2-156*	*1*	*04/15/25 08:56*	*04/15/25 08:54*
General Chemistry Parameters								
Percent Moisture	SM 2540 B-2016	**17.8**		%	0.1	1	04/11/25 15:00	NA
Semivolatile Organic Compounds by GC-MS								
1,2,4,5-Tetrachlorobenzene	EPA 8270C	<401		µg/kg-dry	401	1	04/16/25 14:23	04/15/25 11:22
1,2,4-Trichlorobenzene	EPA 8270C	<401		µg/kg-dry	401	1	04/16/25 14:23	04/15/25 11:22
1,2-Dichlorobenzene (o-Dichlorobenzene)	EPA 8270C	<401		µg/kg-dry	401	1	04/16/25 14:23	04/15/25 11:22
1,3-Dichlorobenzene (m-Dichlorobenzene)	EPA 8270C	<401		µg/kg-dry	401	1	04/16/25 14:23	04/15/25 11:22
1,3-Dinitrobenzene (1,3-DNB)	EPA 8270C	<401		µg/kg-dry	401	1	04/16/25 14:23	04/15/25 11:22
1,4-Dichlorobenzene (p-Dichlorobenzene)	EPA 8270C	<401		µg/kg-dry	401	1	04/16/25 14:23	04/15/25 11:22
1-Methylnaphthalene	EPA 8270C	<243		µg/kg-dry	243	1	04/16/25 14:23	04/15/25 11:22
1-Naphthylamine	EPA 8270C	<401		µg/kg-dry	401	1	04/16/25 14:23	04/15/25 11:22
2,2'-Oxybis(1-chloropropane), bis(2-Chloro-1-methylethyl) ether	EPA 8270C	<401		µg/kg-dry	401	1	04/16/25 14:23	04/15/25 11:22
2,3,4,6-Tetrachlorophenol	EPA 8270C	<401		µg/kg-dry	401	1	04/16/25 14:23	04/15/25 11:22
2,4,5-Trichlorophenol	EPA 8270C	<401		µg/kg-dry	401	1	04/16/25 14:23	04/15/25 11:22
2,4,6-Trichlorophenol	EPA 8270C	<401		µg/kg-dry	401	1	04/16/25 14:23	04/15/25 11:22
2,4-Dichlorophenol	EPA 8270C	<401		µg/kg-dry	401	1	04/16/25 14:23	04/15/25 11:22

Client:	Advanced Geologic Sciences, LLC	**Work Order:**	CC2502268
Project:	Kenton Ohio RMR	**Date Collected:**	04/04/25 10:30
Matrix:	SOIL/SOLID	**Date Received:**	04/07/25 10:30

CLIENT ID: SB-2 (6-8) **Lab ID: CC2502268-002**

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
2,4-Dimethylphenol	EPA 8270C	<401		µg/kg-dry	401	1	04/16/25 14:23	04/15/25 11:22
2,4-Dinitrophenol	EPA 8270C	<2010		µg/kg-dry	2010	1	04/16/25 14:23	04/15/25 11:22
2,4-Dinitrotoluene (2,4-DNT)	EPA 8270C	<401		µg/kg-dry	401	1	04/16/25 14:23	04/15/25 11:22
2,6-Dichlorophenol	EPA 8270C	<401		µg/kg-dry	401	1	04/16/25 14:23	04/15/25 11:22
2,6-Dinitrotoluene (2,6-DNT)	EPA 8270C	<401		µg/kg-dry	401	1	04/16/25 14:23	04/15/25 11:22
2-Acetylaminofluorene	EPA 8270C	<401		µg/kg-dry	401	1	04/16/25 14:23	04/15/25 11:22
2-Amino-4-nitrotoluene (5-Nitro-o-toluidine)	EPA 8270C	<401		µg/kg-dry	401	1	04/16/25 14:23	04/15/25 11:22
2-Chloronaphthalene	EPA 8270C	<401		µg/kg-dry	401	1	04/16/25 14:23	04/15/25 11:22
2-Chlorophenol	EPA 8270C	<401		µg/kg-dry	401	1	04/16/25 14:23	04/15/25 11:22
2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	EPA 8270C	<2010		µg/kg-dry	2010	1	04/16/25 14:23	04/15/25 11:22
2-Methylaniline (o-Toluidine)	EPA 8270C	<2010		µg/kg-dry	2010	1	04/16/25 14:23	04/15/25 11:22
2-Methylnaphthalene	EPA 8270C	<243		µg/kg-dry	243	1	04/16/25 14:23	04/15/25 11:22
2-Methylphenol (o-Cresol)	EPA 8270C	<401		µg/kg-dry	401	1	04/16/25 14:23	04/15/25 11:22
2-Naphthylamine	EPA 8270C	<401		µg/kg-dry	401	1	04/16/25 14:23	04/15/25 11:22
2-Nitroaniline	EPA 8270C	<2010		µg/kg-dry	2010	1	04/16/25 14:23	04/15/25 11:22
2-Nitrophenol	EPA 8270C	<401		µg/kg-dry	401	1	04/16/25 14:23	04/15/25 11:22
2-Picoline (2-Methylpyridine)	EPA 8270C	<401		µg/kg-dry	401	1	04/16/25 14:23	04/15/25 11:22
3&4-Methylphenol	EPA 8270C	<401		µg/kg-dry	401	1	04/16/25 14:23	04/15/25 11:22
3,3'-Dichlorobenzidine	EPA 8270C	<801		µg/kg-dry	801	1	04/16/25 14:23	04/15/25 11:22
3-Methylcholanthrene	EPA 8270C	<401		µg/kg-dry	401	1	04/16/25 14:23	04/15/25 11:22
3-Nitroaniline	EPA 8270C	<2010		µg/kg-dry	2010	1	04/16/25 14:23	04/15/25 11:22
4-Aminobiphenyl	EPA 8270C	<801		µg/kg-dry	801	1	04/16/25 14:23	04/15/25 11:22
4-Bromophenyl phenyl ether (BDE-3)	EPA 8270C	<401		µg/kg-dry	401	1	04/16/25 14:23	04/15/25 11:22

Client:	Advanced Geologic Sciences, LLC	**Work Order:**	CC2502268
Project:	Kenton Ohio RMR	**Date Collected:**	04/04/25 10:30
Matrix:	SOIL/SOLID	**Date Received:**	04/07/25 10:30

CLIENT ID: SB-2 (6-8) **Lab ID: CC2502268-002**

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
4-Chloro-3-methylphenol	EPA 8270C	<801		µg/kg-dry	801	1	04/16/25 14:23	04/15/25 11:22
4-Chloroaniline	EPA 8270C	<801		µg/kg-dry	801	1	04/16/25 14:23	04/15/25 11:22
4-Chlorophenyl phenylether	EPA 8270C	<401		µg/kg-dry	401	1	04/16/25 14:23	04/15/25 11:22
4-Dimethyl aminoazobenzene	EPA 8270C	<401		µg/kg-dry	401	1	04/16/25 14:23	04/15/25 11:22
4-Nitroaniline	EPA 8270C	<801		µg/kg-dry	801	1	04/16/25 14:23	04/15/25 11:22
4-Nitrophenol	EPA 8270C	<2010		µg/kg-dry	2010	1	04/16/25 14:23	04/15/25 11:22
4-Nitroquinoline-1-oxide	EPA 8270C	<2010		µg/kg-dry	2010	1	04/16/25 14:23	04/15/25 11:22
7,12-Dimethylbenz(a) anthracene	EPA 8270C	<401		µg/kg-dry	401	1	04/16/25 14:23	04/15/25 11:22
Acenaphthene	EPA 8270C	<243		µg/kg-dry	243	1	04/16/25 14:23	04/15/25 11:22
Acenaphthylene	EPA 8270C	<243		µg/kg-dry	243	1	04/16/25 14:23	04/15/25 11:22
Acetophenone	EPA 8270C	<401		µg/kg-dry	401	1	04/16/25 14:23	04/15/25 11:22
Aniline	EPA 8270C	<401		µg/kg-dry	401	1	04/16/25 14:23	04/15/25 11:22
Anthracene	EPA 8270C	<243		µg/kg-dry	243	1	04/16/25 14:23	04/15/25 11:22
Azobenzene	EPA 8270C	<401		µg/kg-dry	401	1	04/16/25 14:23	04/15/25 11:22
Benzidine	EPA 8270C	<401		µg/kg-dry	401	1	04/16/25 14:23	04/15/25 11:22
Benzo(a)anthracene	EPA 8270C	<121		µg/kg-dry	121	1	04/16/25 14:23	04/15/25 11:22
Benzo(a)pyrene	EPA 8270C	<121		µg/kg-dry	121	1	04/16/25 14:23	04/15/25 11:22
Benzo(b)fluoranthene	EPA 8270C	<243		µg/kg-dry	243	1	04/16/25 14:23	04/15/25 11:22
Benzo(g,h,i)perylene	EPA 8270C	<243		µg/kg-dry	243	1	04/16/25 14:23	04/15/25 11:22
Benzo(k)fluoranthene	EPA 8270C	<243		µg/kg-dry	243	1	04/16/25 14:23	04/15/25 11:22
Benzyl alcohol	EPA 8270C	<801		µg/kg-dry	801	1	04/16/25 14:23	04/15/25 11:22
bis(2-Chloroethoxy) methane	EPA 8270C	<401		µg/kg-dry	401	1	04/16/25 14:23	04/15/25 11:22
bis(2-Chloroethyl) ether	EPA 8270C	<401		µg/kg-dry	401	1	04/16/25 14:23	04/15/25 11:22
Butyl benzyl phthalate	EPA 8270C	<401		µg/kg-dry	401	1	04/16/25 14:23	04/15/25 11:22

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CLIENT ID: SB-2 (6-8) **Lab ID: CC2502268-002**

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Carbazole	EPA 8270C	<243		µg/kg-dry	243	1	04/16/25 14:23	04/15/25 11:22
Chrysene	EPA 8270C	<243		µg/kg-dry	243	1	04/16/25 14:23	04/15/25 11:22
Di(2-ethylhexyl) phthalate (bis(2-Ethylhexyl) phthalate, DEHP)	EPA 8270C	<401		µg/kg-dry	401	1	04/16/25 14:23	04/15/25 11:22
Dibenz(a,h) anthracene	EPA 8270C	<121		µg/kg-dry	121	1	04/16/25 14:23	04/15/25 11:22
Dibenzofuran	EPA 8270C	<243		µg/kg-dry	243	1	04/16/25 14:23	04/15/25 11:22
Diethyl phthalate	EPA 8270C	<401		µg/kg-dry	401	1	04/16/25 14:23	04/15/25 11:22
Dimethyl phthalate	EPA 8270C	<401		µg/kg-dry	401	1	04/16/25 14:23	04/15/25 11:22
Di-n-butyl phthalate	EPA 8270C	<401		µg/kg-dry	401	1	04/16/25 14:23	04/15/25 11:22
Di-n-octyl phthalate	EPA 8270C	<401		µg/kg-dry	401	1	04/16/25 14:23	04/15/25 11:22
Dinoseb (2-sec-butyl-4,6-dinitrophenol, DNBP)	EPA 8270C	<401		µg/kg-dry	401	1	04/16/25 14:23	04/15/25 11:22
Diphenylamine	EPA 8270C	<401		µg/kg-dry	401	1	04/16/25 14:23	04/15/25 11:22
Ethyl methanesulfonate	EPA 8270C	<401		µg/kg-dry	401	1	04/16/25 14:23	04/15/25 11:22
Fluoranthene	EPA 8270C	<243		µg/kg-dry	243	1	04/16/25 14:23	04/15/25 11:22
Fluorene	EPA 8270C	<243		µg/kg-dry	243	1	04/16/25 14:23	04/15/25 11:22
Hexachlorobenzene	EPA 8270C	<401		µg/kg-dry	401	1	04/16/25 14:23	04/15/25 11:22
Hexachlorobutadiene	EPA 8270C	<401		µg/kg-dry	401	1	04/16/25 14:23	04/15/25 11:22
Hexachlorocyclopentadiene	EPA 8270C	<401		µg/kg-dry	401	1	04/16/25 14:23	04/15/25 11:22
Hexachloroethane	EPA 8270C	<401		µg/kg-dry	401	1	04/16/25 14:23	04/15/25 11:22
Indeno(1,2,3-cd) pyrene	EPA 8270C	<121		µg/kg-dry	121	1	04/16/25 14:23	04/15/25 11:22
Isophorone	EPA 8270C	<401		µg/kg-dry	401	1	04/16/25 14:23	04/15/25 11:22
Isosafrole	EPA 8270C	<401		µg/kg-dry	401	1	04/16/25 14:23	04/15/25 11:22
Methapyrilene	EPA 8270C	<2010		µg/kg-dry	2010	1	04/16/25 14:23	04/15/25 11:22
Methyl methanesulfonate	EPA 8270C	<401		µg/kg-dry	401	1	04/16/25 14:23	04/15/25 11:22

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CLIENT ID: SB-2 (6-8) **Lab ID: CC2502268-002**

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Methylphenol, Total	EPA 8270C	<801		µg/kg-dry	801	1	04/16/25 14:23	04/15/25 11:22
Naphthalene	EPA 8270C	<243		µg/kg-dry	243	1	04/16/25 14:23	04/15/25 11:22
Nitrobenzene	EPA 8270C	<401		µg/kg-dry	401	1	04/16/25 14:23	04/15/25 11:22
n-Nitrosodiethylamine	EPA 8270C	<401		µg/kg-dry	401	1	04/16/25 14:23	04/15/25 11:22
n-Nitrosodimethylamine	EPA 8270C	<401		µg/kg-dry	401	1	04/16/25 14:23	04/15/25 11:22
n-Nitroso-di-n-butylamine	EPA 8270C	<401		µg/kg-dry	401	1	04/16/25 14:23	04/15/25 11:22
n-Nitrosodi-n-propylamine	EPA 8270C	<401		µg/kg-dry	401	1	04/16/25 14:23	04/15/25 11:22
n-Nitrosomethylethylamine	EPA 8270C	<401		µg/kg-dry	401	1	04/16/25 14:23	04/15/25 11:22
n-Nitrosomorpholine	EPA 8270C	<401		µg/kg-dry	401	1	04/16/25 14:23	04/15/25 11:22
n-Nitrosopiperidine	EPA 8270C	<401		µg/kg-dry	401	1	04/16/25 14:23	04/15/25 11:22
n-Nitrosopyrrolidine	EPA 8270C	<401		µg/kg-dry	401	1	04/16/25 14:23	04/15/25 11:22
Pentachlorobenzene	EPA 8270C	<401		µg/kg-dry	401	1	04/16/25 14:23	04/15/25 11:22
Pentachloroethane	EPA 8270C	<401		µg/kg-dry	401	1	04/16/25 14:23	04/15/25 11:22
Pentachloronitrobenzene	EPA 8270C	<801		µg/kg-dry	801	1	04/16/25 14:23	04/15/25 11:22
Pentachlorophenol	EPA 8270C	<2010		µg/kg-dry	2010	1	04/16/25 14:23	04/15/25 11:22
Phenacetin	EPA 8270C	<801		µg/kg-dry	801	1	04/16/25 14:23	04/15/25 11:22
Phenanthrene	EPA 8270C	<243		µg/kg-dry	243	1	04/16/25 14:23	04/15/25 11:22
Phenol	EPA 8270C	<401		µg/kg-dry	401	1	04/16/25 14:23	04/15/25 11:22
Pyrene	EPA 8270C	<243		µg/kg-dry	243	1	04/16/25 14:23	04/15/25 11:22
Pyridine	EPA 8270C	<401		µg/kg-dry	401	1	04/16/25 14:23	04/15/25 11:22
Safrole	EPA 8270C	<401		µg/kg-dry	401	1	04/16/25 14:23	04/15/25 11:22
Surr: 2,4,6-Tribromophenol	*EPA 8270C*	***72.4***		*%REC*	*14.2-136*	*1*	*04/16/25 14:23*	*04/15/25 11:22*
Surr: 2-Fluorobiphenyl	*EPA 8270C*	***76.1***		*%REC*	*30-116*	*1*	*04/16/25 14:23*	*04/15/25 11:22*
Surr: 2-Fluorophenol	*EPA 8270C*	***74.2***		*%REC*	*5.42-113*	*1*	*04/16/25 14:23*	*04/15/25 11:22*
Surr: 4-Terphenyl-d14	*EPA 8270C*	***75.3***		*%REC*	*27.3-138*	*1*	*04/16/25 14:23*	*04/15/25 11:22*

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CLIENT ID: SB-2 (6-8) **Lab ID: CC2502268-002**

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Surr: Nitrobenzene-d5	*EPA 8270C*	***76.4***		*%REC*	*23.7-109*	*1*	*04/16/25 14:23*	*04/15/25 11:22*
Surr: Phenol-d6	*EPA 8270C*	***76.9***		*%REC*	*13.8-108*	*1*	*04/16/25 14:23*	*04/15/25 11:22*
Volatile Organic Compounds by GC-MS								
1,1,1,2-Tetrachloroethane	EPA 8260B	<6.08		µg/kg-dry	6.08	1	04/15/25 12:02	04/15/25 09:00
1,1,1-Trichloroethane	EPA 8260B	<6.08		µg/kg-dry	6.08	1	04/15/25 12:02	04/15/25 09:00
1,1,2,2-Tetrachloroethane	EPA 8260B	<6.08		µg/kg-dry	6.08	1	04/15/25 12:02	04/15/25 09:00
1,1,2-Trichloroethane	EPA 8260B	<6.08		µg/kg-dry	6.08	1	04/15/25 12:02	04/15/25 09:00
1,1-Dichloroethane	EPA 8260B	<6.08		µg/kg-dry	6.08	1	04/15/25 12:02	04/15/25 09:00
1,1-Dichloroethylene	EPA 8260B	<6.08		µg/kg-dry	6.08	1	04/15/25 12:02	04/15/25 09:00
1,1-Dichloropropene	EPA 8260B	<6.08		µg/kg-dry	6.08	1	04/15/25 12:02	04/15/25 09:00
1,2,3-Trichlorobenzene	EPA 8260B	<6.08		µg/kg-dry	6.08	1	04/15/25 12:02	04/15/25 09:00
1,2,3-Trichloropropane	EPA 8260B	<6.08		µg/kg-dry	6.08	1	04/15/25 12:02	04/15/25 09:00
1,2,4-Trichlorobenzene	EPA 8260B	<6.08		µg/kg-dry	6.08	1	04/15/25 12:02	04/15/25 09:00
1,2,4-Trimethylbenzene	EPA 8260B	<6.08		µg/kg-dry	6.08	1	04/15/25 12:02	04/15/25 09:00
1,2-Dibromo-3-chloropropane (DBCP)	EPA 8260B	<6.08		µg/kg-dry	6.08	1	04/15/25 12:02	04/15/25 09:00
1,2-Dibromoethane (EDB, Ethylene dibromide)	EPA 8260B	<0.937		µg/kg-dry	0.937	1	04/15/25 12:02	04/15/25 09:00
1,2-Dichlorobenzene (o-Dichlorobenzene)	EPA 8260B	<6.08		µg/kg-dry	6.08	1	04/15/25 12:02	04/15/25 09:00
1,2-Dichloroethane (Ethylene dichloride)	EPA 8260B	<6.08		µg/kg-dry	6.08	1	04/15/25 12:02	04/15/25 09:00
1,2-Dichloropropane	EPA 8260B	<6.08		µg/kg-dry	6.08	1	04/15/25 12:02	04/15/25 09:00
1,3,5-Trimethylbenzene	EPA 8260B	<6.08		µg/kg-dry	6.08	1	04/15/25 12:02	04/15/25 09:00
1,3-Dichlorobenzene (m-Dichlorobenzene)	EPA 8260B	<6.08		µg/kg-dry	6.08	1	04/15/25 12:02	04/15/25 09:00
1,3-Dichloropropane	EPA 8260B	<6.08		µg/kg-dry	6.08	1	04/15/25 12:02	04/15/25 09:00
1,3-Dichloropropene	EPA 8260B	<12.2		µg/kg-dry	12.2	1	04/15/25 12:02	04/15/25 09:00
1,4-Dichlorobenzene (p-Dichlorobenzene)	EPA 8260B	<6.08		µg/kg-dry	6.08	1	04/15/25 12:02	04/15/25 09:00

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CLIENT ID: SB-2 (6-8) **Lab ID: CC2502268-002**

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
2,2-Dichloropropane	EPA 8260B	<6.08		µg/kg-dry	6.08	1	04/15/25 12:02	04/15/25 09:00
2-Butanone (Methyl ethyl ketone, MEK)	EPA 8260B	<60.8		µg/kg-dry	60.8	1	04/15/25 12:02	04/15/25 09:00
2-Chlorotoluene	EPA 8260B	<6.08		µg/kg-dry	6.08	1	04/15/25 12:02	04/15/25 09:00
2-Hexanone	EPA 8260B	<6.08		µg/kg-dry	6.08	1	04/15/25 12:02	04/15/25 09:00
4-Chlorotoluene	EPA 8260B	<6.08		µg/kg-dry	6.08	1	04/15/25 12:02	04/15/25 09:00
4-Isopropyltoluene (p-Cymene)	EPA 8260B	<6.08		µg/kg-dry	6.08	1	04/15/25 12:02	04/15/25 09:00
4-Methyl-2-pentanone (MIBK)	EPA 8260B	<6.08		µg/kg-dry	6.08	1	04/15/25 12:02	04/15/25 09:00
Acetone	EPA 8260B	<60.8		µg/kg-dry	60.8	1	04/15/25 12:02	04/15/25 09:00
Benzene	EPA 8260B	<6.08		µg/kg-dry	6.08	1	04/15/25 12:02	04/15/25 09:00
Bromobenzene	EPA 8260B	<6.08		µg/kg-dry	6.08	1	04/15/25 12:02	04/15/25 09:00
Bromochloromethane	EPA 8260B	<6.08		µg/kg-dry	6.08	1	04/15/25 12:02	04/15/25 09:00
Bromodichloromethane	EPA 8260B	<6.08		µg/kg-dry	6.08	1	04/15/25 12:02	04/15/25 09:00
Bromoform	EPA 8260B	<6.08		µg/kg-dry	6.08	1	04/15/25 12:02	04/15/25 09:00
Carbon disulfide	EPA 8260B	<6.08		µg/kg-dry	6.08	1	04/15/25 12:02	04/15/25 09:00
Carbon tetrachloride	EPA 8260B	<6.08		µg/kg-dry	6.08	1	04/15/25 12:02	04/15/25 09:00
Chlorobenzene	EPA 8260B	<6.08		µg/kg-dry	6.08	1	04/15/25 12:02	04/15/25 09:00
Chlorodibromomethane	EPA 8260B	<6.08		µg/kg-dry	6.08	1	04/15/25 12:02	04/15/25 09:00
Chloroethane (Ethyl chloride)	EPA 8260B	<6.08		µg/kg-dry	6.08	1	04/15/25 12:02	04/15/25 09:00
Chloroform	EPA 8260B	<6.08		µg/kg-dry	6.08	1	04/15/25 12:02	04/15/25 09:00
cis & trans-1,2-Dichloroethene	EPA 8260B	<12.2		µg/kg-dry	12.2	1	04/15/25 12:02	04/15/25 09:00
cis-1,2-Dichloroethylene	EPA 8260B	<6.08		µg/kg-dry	6.08	1	04/15/25 12:02	04/15/25 09:00
cis-1,3-Dichloropropene	EPA 8260B	<6.08		µg/kg-dry	6.08	1	04/15/25 12:02	04/15/25 09:00
Dibromomethane (Methylene bromide)	EPA 8260B	<6.08		µg/kg-dry	6.08	1	04/15/25 12:02	04/15/25 09:00
Dichlorodifluoromethane (Freon-12)	EPA 8260B	<9.73		µg/kg-dry	9.73	1	04/15/25 12:02	04/15/25 09:00

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Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Ethylbenzene	EPA 8260B	<6.08		µg/kg-dry	6.08	1	04/15/25 12:02	04/15/25 09:00
Hexachlorobutadiene	EPA 8260B	<6.08		µg/kg-dry	6.08	1	04/15/25 12:02	04/15/25 09:00
Isopropylbenzene	EPA 8260B	<6.08		µg/kg-dry	6.08	1	04/15/25 12:02	04/15/25 09:00
m+p-Xylene	EPA 8260B	<12.2		µg/kg-dry	12.2	1	04/15/25 12:02	04/15/25 09:00
Methyl bromide (Bromomethane)	EPA 8260B	<6.08		µg/kg-dry	6.08	1	04/15/25 12:02	04/15/25 09:00
Methyl chloride (Chloromethane)	EPA 8260B	<6.08		µg/kg-dry	6.08	1	04/15/25 12:02	04/15/25 09:00
Methyl tert-butyl ether (MTBE)	EPA 8260B	<6.08		µg/kg-dry	6.08	1	04/15/25 12:02	04/15/25 09:00
Methylene chloride (Dichloromethane)	EPA 8260B	<24.3		µg/kg-dry	24.3	1	04/15/25 12:02	04/15/25 09:00
Naphthalene	EPA 8260B	<6.08		µg/kg-dry	6.08	1	04/15/25 12:02	04/15/25 09:00
n-Butylbenzene	EPA 8260B	<6.08		µg/kg-dry	6.08	1	04/15/25 12:02	04/15/25 09:00
n-Propylbenzene	EPA 8260B	<6.08		µg/kg-dry	6.08	1	04/15/25 12:02	04/15/25 09:00
o-Xylene	EPA 8260B	<6.08		µg/kg-dry	6.08	1	04/15/25 12:02	04/15/25 09:00
sec-Butylbenzene	EPA 8260B	<6.08		µg/kg-dry	6.08	1	04/15/25 12:02	04/15/25 09:00
Styrene	EPA 8260B	<6.08		µg/kg-dry	6.08	1	04/15/25 12:02	04/15/25 09:00
tert-Butylbenzene	EPA 8260B	<6.08		µg/kg-dry	6.08	1	04/15/25 12:02	04/15/25 09:00
Tetrachloroethylene (Perchloroethylene)	EPA 8260B	<6.08		µg/kg-dry	6.08	1	04/15/25 12:02	04/15/25 09:00
Toluene	EPA 8260B	<6.08		µg/kg-dry	6.08	1	04/15/25 12:02	04/15/25 09:00
Total Xylene	EPA 8260B	<18.2		µg/kg-dry	18.2	1	04/15/25 12:02	04/15/25 09:00
trans-1,2-Dichloroethylene	EPA 8260B	<6.08		µg/kg-dry	6.08	1	04/15/25 12:02	04/15/25 09:00
trans-1,3-Dichloropropylene	EPA 8260B	<6.08		µg/kg-dry	6.08	1	04/15/25 12:02	04/15/25 09:00
Trichloroethene (Trichloroethylene)	EPA 8260B	<6.08		µg/kg-dry	6.08	1	04/15/25 12:02	04/15/25 09:00
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	EPA 8260B	<6.08		µg/kg-dry	6.08	1	04/15/25 12:02	04/15/25 09:00
Vinyl chloride (Chloroethene)	EPA 8260B	<6.08		µg/kg-dry	6.08	1	04/15/25 12:02	04/15/25 09:00
Surr: 4-Bromofluorobenzene	*EPA 8260B*	***98.6***		*%REC*	*78.9-128*	*1*	*04/15/25 12:02*	*04/15/25 09:00*

Client:	Advanced Geologic Sciences, LLC	**Work Order:**	CC2502268
Project:	Kenton Ohio RMR	**Date Collected:**	04/04/25 10:30
Matrix:	SOIL/SOLID	**Date Received:**	04/07/25 10:30

CLIENT ID: SB-2 (6-8) **Lab ID: CC2502268-002**

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Surr: Dibromofluoromethane	*EPA 8260B*	***109***		*%REC*	*79.1-140*	*1*	*04/15/25 12:02*	*04/15/25 09:00*
Surr: Toluene-d8	*EPA 8260B*	***106***		*%REC*	*84.5-124*	*1*	*04/15/25 12:02*	*04/15/25 09:00*

Client:	Advanced Geologic Sciences, LLC	**Work Order:**	CC2502268
Project:	Kenton Ohio RMR	**Date Collected:**	04/04/25 10:59
Matrix:	SOIL/SOLID	**Date Received:**	04/07/25 10:30

CLIENT ID: SB-3 (8-10) **Lab ID: CC2502268-003**

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Diesel Range Organics by GC-FID								
Diesel Range Organics C10-C20	EPA 8015B	<16.9		mg/kg-dry	16.9	1	04/21/25 14:40	04/17/25 15:10
Oil Range Organics C20-C34	EPA 8015B	<16.9		mg/kg-dry	16.9	1	04/21/25 14:40	04/17/25 15:10
Surr: n-Nonane	*EPA 8015B*	***73.2***		*%REC*	*33-88*	*1*	*04/21/25 14:40*	*04/17/25 15:10*
Surr: n-Pentacosane	*EPA 8015B*	***67.7***		*%REC*	*40.9-99.9*	*1*	*04/21/25 14:40*	*04/17/25 15:10*
Gasoline Range Organics by GC-FID								
Gasoline Range Organics C6-C12	EPA 8015A	<2.54		mg/kg-dry	2.54	1	04/15/25 08:56	04/15/25 08:54
Surr: Cyclooctane	*EPA 8015A*	***92.6***		*%REC*	*65.2-156*	*1*	*04/15/25 08:56*	*04/15/25 08:54*
General Chemistry Parameters								
Percent Moisture	SM 2540 B-2016	**21.2**		%	0.1	1	04/11/25 15:00	NA
Semivolatile Organic Compounds by GC-MS								
1,2,4,5-Tetrachlorobenzene	EPA 8270C	<418		µg/kg-dry	418	1	04/16/25 14:38	04/15/25 11:22
1,2,4-Trichlorobenzene	EPA 8270C	<418		µg/kg-dry	418	1	04/16/25 14:38	04/15/25 11:22
1,2-Dichlorobenzene (o-Dichlorobenzene)	EPA 8270C	<418		µg/kg-dry	418	1	04/16/25 14:38	04/15/25 11:22
1,3-Dichlorobenzene (m-Dichlorobenzene)	EPA 8270C	<418		µg/kg-dry	418	1	04/16/25 14:38	04/15/25 11:22
1,3-Dinitrobenzene (1,3-DNB)	EPA 8270C	<418		µg/kg-dry	418	1	04/16/25 14:38	04/15/25 11:22
1,4-Dichlorobenzene (p-Dichlorobenzene)	EPA 8270C	<418		µg/kg-dry	418	1	04/16/25 14:38	04/15/25 11:22
1-Methylnaphthalene	EPA 8270C	<253		µg/kg-dry	253	1	04/16/25 14:38	04/15/25 11:22
1-Naphthylamine	EPA 8270C	<418		µg/kg-dry	418	1	04/16/25 14:38	04/15/25 11:22
2,2'-Oxybis(1-chloropropane), bis(2-Chloro-1-methylethyl) ether	EPA 8270C	<418		µg/kg-dry	418	1	04/16/25 14:38	04/15/25 11:22
2,3,4,6-Tetrachlorophenol	EPA 8270C	<418		µg/kg-dry	418	1	04/16/25 14:38	04/15/25 11:22
2,4,5-Trichlorophenol	EPA 8270C	<418		µg/kg-dry	418	1	04/16/25 14:38	04/15/25 11:22
2,4,6-Trichlorophenol	EPA 8270C	<418		µg/kg-dry	418	1	04/16/25 14:38	04/15/25 11:22
2,4-Dichlorophenol	EPA 8270C	<418		µg/kg-dry	418	1	04/16/25 14:38	04/15/25 11:22

Client:	Advanced Geologic Sciences, LLC	**Work Order:**	CC2502268
Project:	Kenton Ohio RMR	**Date Collected:**	04/04/25 10:59
Matrix:	SOIL/SOLID	**Date Received:**	04/07/25 10:30

CLIENT ID: SB-3 (8-10) **Lab ID: CC2502268-003**

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
2,4-Dimethylphenol	EPA 8270C	<418		µg/kg-dry	418	1	04/16/25 14:38	04/15/25 11:22
2,4-Dinitrophenol	EPA 8270C	<2090		µg/kg-dry	2090	1	04/16/25 14:38	04/15/25 11:22
2,4-Dinitrotoluene (2,4-DNT)	EPA 8270C	<418		µg/kg-dry	418	1	04/16/25 14:38	04/15/25 11:22
2,6-Dichlorophenol	EPA 8270C	<418		µg/kg-dry	418	1	04/16/25 14:38	04/15/25 11:22
2,6-Dinitrotoluene (2,6-DNT)	EPA 8270C	<418		µg/kg-dry	418	1	04/16/25 14:38	04/15/25 11:22
2-Acetylaminofluorene	EPA 8270C	<418		µg/kg-dry	418	1	04/16/25 14:38	04/15/25 11:22
2-Amino-4-nitrotoluene (5-Nitro-o-toluidine)	EPA 8270C	<418		µg/kg-dry	418	1	04/16/25 14:38	04/15/25 11:22
2-Chloronaphthalene	EPA 8270C	<418		µg/kg-dry	418	1	04/16/25 14:38	04/15/25 11:22
2-Chlorophenol	EPA 8270C	<418		µg/kg-dry	418	1	04/16/25 14:38	04/15/25 11:22
2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	EPA 8270C	<2090		µg/kg-dry	2090	1	04/16/25 14:38	04/15/25 11:22
2-Methylaniline (o-Toluidine)	EPA 8270C	<2090		µg/kg-dry	2090	1	04/16/25 14:38	04/15/25 11:22
2-Methylnaphthalene	EPA 8270C	<253		µg/kg-dry	253	1	04/16/25 14:38	04/15/25 11:22
2-Methylphenol (o-Cresol)	EPA 8270C	<418		µg/kg-dry	418	1	04/16/25 14:38	04/15/25 11:22
2-Naphthylamine	EPA 8270C	<418		µg/kg-dry	418	1	04/16/25 14:38	04/15/25 11:22
2-Nitroaniline	EPA 8270C	<2090		µg/kg-dry	2090	1	04/16/25 14:38	04/15/25 11:22
2-Nitrophenol	EPA 8270C	<418		µg/kg-dry	418	1	04/16/25 14:38	04/15/25 11:22
2-Picoline (2-Methylpyridine)	EPA 8270C	<418		µg/kg-dry	418	1	04/16/25 14:38	04/15/25 11:22
3&4-Methylphenol	EPA 8270C	<418		µg/kg-dry	418	1	04/16/25 14:38	04/15/25 11:22
3,3'-Dichlorobenzidine	EPA 8270C	<836		µg/kg-dry	836	1	04/16/25 14:38	04/15/25 11:22
3-Methylcholanthrene	EPA 8270C	<418		µg/kg-dry	418	1	04/16/25 14:38	04/15/25 11:22
3-Nitroaniline	EPA 8270C	<2090		µg/kg-dry	2090	1	04/16/25 14:38	04/15/25 11:22
4-Aminobiphenyl	EPA 8270C	<836		µg/kg-dry	836	1	04/16/25 14:38	04/15/25 11:22
4-Bromophenyl phenyl ether (BDE-3)	EPA 8270C	<418		µg/kg-dry	418	1	04/16/25 14:38	04/15/25 11:22

Client:	Advanced Geologic Sciences, LLC	**Work Order:**	CC2502268
Project:	Kenton Ohio RMR	**Date Collected:**	04/04/25 10:59
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CLIENT ID: SB-3 (8-10) **Lab ID: CC2502268-003**

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
4-Chloro-3-methylphenol	EPA 8270C	<836		µg/kg-dry	836	1	04/16/25 14:38	04/15/25 11:22
4-Chloroaniline	EPA 8270C	<836		µg/kg-dry	836	1	04/16/25 14:38	04/15/25 11:22
4-Chlorophenyl phenylether	EPA 8270C	<418		µg/kg-dry	418	1	04/16/25 14:38	04/15/25 11:22
4-Dimethyl aminoazobenzene	EPA 8270C	<418		µg/kg-dry	418	1	04/16/25 14:38	04/15/25 11:22
4-Nitroaniline	EPA 8270C	<836		µg/kg-dry	836	1	04/16/25 14:38	04/15/25 11:22
4-Nitrophenol	EPA 8270C	<2090		µg/kg-dry	2090	1	04/16/25 14:38	04/15/25 11:22
4-Nitroquinoline-1-oxide	EPA 8270C	<2090		µg/kg-dry	2090	1	04/16/25 14:38	04/15/25 11:22
7,12-Dimethylbenz(a) anthracene	EPA 8270C	<418		µg/kg-dry	418	1	04/16/25 14:38	04/15/25 11:22
Acenaphthene	EPA 8270C	<253		µg/kg-dry	253	1	04/16/25 14:38	04/15/25 11:22
Acenaphthylene	EPA 8270C	<253		µg/kg-dry	253	1	04/16/25 14:38	04/15/25 11:22
Acetophenone	EPA 8270C	<418		µg/kg-dry	418	1	04/16/25 14:38	04/15/25 11:22
Aniline	EPA 8270C	<418		µg/kg-dry	418	1	04/16/25 14:38	04/15/25 11:22
Anthracene	EPA 8270C	<253		µg/kg-dry	253	1	04/16/25 14:38	04/15/25 11:22
Azobenzene	EPA 8270C	<418		µg/kg-dry	418	1	04/16/25 14:38	04/15/25 11:22
Benzidine	EPA 8270C	<418		µg/kg-dry	418	1	04/16/25 14:38	04/15/25 11:22
Benzo(a)anthracene	EPA 8270C	<127		µg/kg-dry	127	1	04/16/25 14:38	04/15/25 11:22
Benzo(a)pyrene	EPA 8270C	<127		µg/kg-dry	127	1	04/16/25 14:38	04/15/25 11:22
Benzo(b)fluoranthene	EPA 8270C	<253		µg/kg-dry	253	1	04/16/25 14:38	04/15/25 11:22
Benzo(g,h,i)perylene	EPA 8270C	<253		µg/kg-dry	253	1	04/16/25 14:38	04/15/25 11:22
Benzo(k)fluoranthene	EPA 8270C	<253		µg/kg-dry	253	1	04/16/25 14:38	04/15/25 11:22
Benzyl alcohol	EPA 8270C	<836		µg/kg-dry	836	1	04/16/25 14:38	04/15/25 11:22
bis(2-Chloroethoxy) methane	EPA 8270C	<418		µg/kg-dry	418	1	04/16/25 14:38	04/15/25 11:22
bis(2-Chloroethyl) ether	EPA 8270C	<418		µg/kg-dry	418	1	04/16/25 14:38	04/15/25 11:22
Butyl benzyl phthalate	EPA 8270C	<418		µg/kg-dry	418	1	04/16/25 14:38	04/15/25 11:22

Client:	Advanced Geologic Sciences, LLC	**Work Order:**	CC2502268
Project:	Kenton Ohio RMR	**Date Collected:**	04/04/25 10:59
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CLIENT ID: SB-3 (8-10) **Lab ID: CC2502268-003**

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Carbazole	EPA 8270C	<253		µg/kg-dry	253	1	04/16/25 14:38	04/15/25 11:22
Chrysene	EPA 8270C	<253		µg/kg-dry	253	1	04/16/25 14:38	04/15/25 11:22
Di(2-ethylhexyl) phthalate (bis(2-Ethylhexyl) phthalate, DEHP)	EPA 8270C	<418		µg/kg-dry	418	1	04/16/25 14:38	04/15/25 11:22
Dibenz(a,h) anthracene	EPA 8270C	<127		µg/kg-dry	127	1	04/16/25 14:38	04/15/25 11:22
Dibenzofuran	EPA 8270C	<253		µg/kg-dry	253	1	04/16/25 14:38	04/15/25 11:22
Diethyl phthalate	EPA 8270C	<418		µg/kg-dry	418	1	04/16/25 14:38	04/15/25 11:22
Dimethyl phthalate	EPA 8270C	<418		µg/kg-dry	418	1	04/16/25 14:38	04/15/25 11:22
Di-n-butyl phthalate	EPA 8270C	<418		µg/kg-dry	418	1	04/16/25 14:38	04/15/25 11:22
Di-n-octyl phthalate	EPA 8270C	<418		µg/kg-dry	418	1	04/16/25 14:38	04/15/25 11:22
Dinoseb (2-sec-butyl-4,6-dinitrophenol, DNBP)	EPA 8270C	<418		µg/kg-dry	418	1	04/16/25 14:38	04/15/25 11:22
Diphenylamine	EPA 8270C	<418		µg/kg-dry	418	1	04/16/25 14:38	04/15/25 11:22
Ethyl methanesulfonate	EPA 8270C	<418		µg/kg-dry	418	1	04/16/25 14:38	04/15/25 11:22
Fluoranthene	EPA 8270C	<253		µg/kg-dry	253	1	04/16/25 14:38	04/15/25 11:22
Fluorene	EPA 8270C	<253		µg/kg-dry	253	1	04/16/25 14:38	04/15/25 11:22
Hexachlorobenzene	EPA 8270C	<418		µg/kg-dry	418	1	04/16/25 14:38	04/15/25 11:22
Hexachlorobutadiene	EPA 8270C	<418		µg/kg-dry	418	1	04/16/25 14:38	04/15/25 11:22
Hexachlorocyclopentadiene	EPA 8270C	<418		µg/kg-dry	418	1	04/16/25 14:38	04/15/25 11:22
Hexachloroethane	EPA 8270C	<418		µg/kg-dry	418	1	04/16/25 14:38	04/15/25 11:22
Indeno(1,2,3-cd) pyrene	EPA 8270C	<127		µg/kg-dry	127	1	04/16/25 14:38	04/15/25 11:22
Isophorone	EPA 8270C	<418		µg/kg-dry	418	1	04/16/25 14:38	04/15/25 11:22
Isosafrole	EPA 8270C	<418		µg/kg-dry	418	1	04/16/25 14:38	04/15/25 11:22
Methapyrilene	EPA 8270C	<2090		µg/kg-dry	2090	1	04/16/25 14:38	04/15/25 11:22
Methyl methanesulfonate	EPA 8270C	<418		µg/kg-dry	418	1	04/16/25 14:38	04/15/25 11:22

Client:	Advanced Geologic Sciences, LLC	**Work Order:**	CC2502268
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CLIENT ID: SB-3 (8-10) **Lab ID: CC2502268-003**

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Methylphenol, Total	EPA 8270C	<836		µg/kg-dry	836	1	04/16/25 14:38	04/15/25 11:22
Naphthalene	EPA 8270C	<253		µg/kg-dry	253	1	04/16/25 14:38	04/15/25 11:22
Nitrobenzene	EPA 8270C	<418		µg/kg-dry	418	1	04/16/25 14:38	04/15/25 11:22
n-Nitrosodiethylamine	EPA 8270C	<418		µg/kg-dry	418	1	04/16/25 14:38	04/15/25 11:22
n-Nitrosodimethylamine	EPA 8270C	<418		µg/kg-dry	418	1	04/16/25 14:38	04/15/25 11:22
n-Nitroso-di-n-butylamine	EPA 8270C	<418		µg/kg-dry	418	1	04/16/25 14:38	04/15/25 11:22
n-Nitrosodi-n-propylamine	EPA 8270C	<418		µg/kg-dry	418	1	04/16/25 14:38	04/15/25 11:22
n-Nitrosomethylethylamine	EPA 8270C	<418		µg/kg-dry	418	1	04/16/25 14:38	04/15/25 11:22
n-Nitrosomorpholine	EPA 8270C	<418		µg/kg-dry	418	1	04/16/25 14:38	04/15/25 11:22
n-Nitrosopiperidine	EPA 8270C	<418		µg/kg-dry	418	1	04/16/25 14:38	04/15/25 11:22
n-Nitrosopyrrolidine	EPA 8270C	<418		µg/kg-dry	418	1	04/16/25 14:38	04/15/25 11:22
Pentachlorobenzene	EPA 8270C	<418		µg/kg-dry	418	1	04/16/25 14:38	04/15/25 11:22
Pentachloroethane	EPA 8270C	<418		µg/kg-dry	418	1	04/16/25 14:38	04/15/25 11:22
Pentachloronitrobenzene	EPA 8270C	<836		µg/kg-dry	836	1	04/16/25 14:38	04/15/25 11:22
Pentachlorophenol	EPA 8270C	<2090		µg/kg-dry	2090	1	04/16/25 14:38	04/15/25 11:22
Phenacetin	EPA 8270C	<836		µg/kg-dry	836	1	04/16/25 14:38	04/15/25 11:22
Phenanthrene	EPA 8270C	<253		µg/kg-dry	253	1	04/16/25 14:38	04/15/25 11:22
Phenol	EPA 8270C	<418		µg/kg-dry	418	1	04/16/25 14:38	04/15/25 11:22
Pyrene	EPA 8270C	<253		µg/kg-dry	253	1	04/16/25 14:38	04/15/25 11:22
Pyridine	EPA 8270C	<418		µg/kg-dry	418	1	04/16/25 14:38	04/15/25 11:22
Safrole	EPA 8270C	<418		µg/kg-dry	418	1	04/16/25 14:38	04/15/25 11:22
Surr: 2,4,6-Tribromophenol	*EPA 8270C*	***70.9***		*%REC*	*14.2-136*	*1*	*04/16/25 14:38*	*04/15/25 11:22*
Surr: 2-Fluorobiphenyl	*EPA 8270C*	***71.9***		*%REC*	*30-116*	*1*	*04/16/25 14:38*	*04/15/25 11:22*
Surr: 2-Fluorophenol	*EPA 8270C*	***73.8***		*%REC*	*5.42-113*	*1*	*04/16/25 14:38*	*04/15/25 11:22*
Surr: 4-Terphenyl-d14	*EPA 8270C*	***73.8***		*%REC*	*27.3-138*	*1*	*04/16/25 14:38*	*04/15/25 11:22*

Client:	Advanced Geologic Sciences, LLC	**Work Order:**	CC2502268
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CLIENT ID: SB-3 (8-10) **Lab ID: CC2502268-003**

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Surr: Nitrobenzene-d5	*EPA 8270C*	***73.3***		*%REC*	*23.7-109*	*1*	*04/16/25 14:38*	*04/15/25 11:22*
Surr: Phenol-d6	*EPA 8270C*	***76.5***		*%REC*	*13.8-108*	*1*	*04/16/25 14:38*	*04/15/25 11:22*
Volatile Organic Compounds by GC-MS								
1,1,1,2-Tetrachloroethane	EPA 8260B	<6.35		µg/kg-dry	6.35	1	04/15/25 11:45	04/15/25 09:00
1,1,1-Trichloroethane	EPA 8260B	<6.35		µg/kg-dry	6.35	1	04/15/25 11:45	04/15/25 09:00
1,1,2,2-Tetrachloroethane	EPA 8260B	<6.35		µg/kg-dry	6.35	1	04/15/25 11:45	04/15/25 09:00
1,1,2-Trichloroethane	EPA 8260B	<6.35		µg/kg-dry	6.35	1	04/15/25 11:45	04/15/25 09:00
1,1-Dichloroethane	EPA 8260B	<6.35		µg/kg-dry	6.35	1	04/15/25 11:45	04/15/25 09:00
1,1-Dichloroethylene	EPA 8260B	<6.35		µg/kg-dry	6.35	1	04/15/25 11:45	04/15/25 09:00
1,1-Dichloropropene	EPA 8260B	<6.35		µg/kg-dry	6.35	1	04/15/25 11:45	04/15/25 09:00
1,2,3-Trichlorobenzene	EPA 8260B	<6.35		µg/kg-dry	6.35	1	04/15/25 11:45	04/15/25 09:00
1,2,3-Trichloropropane	EPA 8260B	<6.35		µg/kg-dry	6.35	1	04/15/25 11:45	04/15/25 09:00
1,2,4-Trichlorobenzene	EPA 8260B	<6.35		µg/kg-dry	6.35	1	04/15/25 11:45	04/15/25 09:00
1,2,4-Trimethylbenzene	EPA 8260B	<6.35		µg/kg-dry	6.35	1	04/15/25 11:45	04/15/25 09:00
1,2-Dibromo-3-chloropropane (DBCP)	EPA 8260B	<6.35		µg/kg-dry	6.35	1	04/15/25 11:45	04/15/25 09:00
1,2-Dibromoethane (EDB, Ethylene dibromide)	EPA 8260B	<0.978		µg/kg-dry	0.978	1	04/15/25 11:45	04/15/25 09:00
1,2-Dichlorobenzene (o-Dichlorobenzene)	EPA 8260B	<6.35		µg/kg-dry	6.35	1	04/15/25 11:45	04/15/25 09:00
1,2-Dichloroethane (Ethylene dichloride)	EPA 8260B	<6.35		µg/kg-dry	6.35	1	04/15/25 11:45	04/15/25 09:00
1,2-Dichloropropane	EPA 8260B	<6.35		µg/kg-dry	6.35	1	04/15/25 11:45	04/15/25 09:00
1,3,5-Trimethylbenzene	EPA 8260B	<6.35		µg/kg-dry	6.35	1	04/15/25 11:45	04/15/25 09:00
1,3-Dichlorobenzene (m-Dichlorobenzene)	EPA 8260B	<6.35		µg/kg-dry	6.35	1	04/15/25 11:45	04/15/25 09:00
1,3-Dichloropropane	EPA 8260B	<6.35		µg/kg-dry	6.35	1	04/15/25 11:45	04/15/25 09:00
1,3-Dichloropropene	EPA 8260B	<12.7		µg/kg-dry	12.7	1	04/15/25 11:45	04/15/25 09:00
1,4-Dichlorobenzene (p-Dichlorobenzene)	EPA 8260B	<6.35		µg/kg-dry	6.35	1	04/15/25 11:45	04/15/25 09:00

Client:	Advanced Geologic Sciences, LLC	**Work Order:**	CC2502268
Project:	Kenton Ohio RMR	**Date Collected:**	04/04/25 10:59
Matrix:	SOIL/SOLID	**Date Received:**	04/07/25 10:30

CLIENT ID: SB-3 (8-10) **Lab ID: CC2502268-003**

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
2,2-Dichloropropane	EPA 8260B	<6.35		µg/kg-dry	6.35	1	04/15/25 11:45	04/15/25 09:00
2-Butanone (Methyl ethyl ketone, MEK)	EPA 8260B	<63.5		µg/kg-dry	63.5	1	04/15/25 11:45	04/15/25 09:00
2-Chlorotoluene	EPA 8260B	<6.35		µg/kg-dry	6.35	1	04/15/25 11:45	04/15/25 09:00
2-Hexanone	EPA 8260B	<6.35		µg/kg-dry	6.35	1	04/15/25 11:45	04/15/25 09:00
4-Chlorotoluene	EPA 8260B	<6.35		µg/kg-dry	6.35	1	04/15/25 11:45	04/15/25 09:00
4-Isopropyltoluene (p-Cymene)	EPA 8260B	<6.35		µg/kg-dry	6.35	1	04/15/25 11:45	04/15/25 09:00
4-Methyl-2-pentanone (MIBK)	EPA 8260B	<6.35		µg/kg-dry	6.35	1	04/15/25 11:45	04/15/25 09:00
Acetone	EPA 8260B	**66.8**		µg/kg-dry	63.5	1	04/15/25 11:45	04/15/25 09:00
Benzene	EPA 8260B	<6.35		µg/kg-dry	6.35	1	04/15/25 11:45	04/15/25 09:00
Bromobenzene	EPA 8260B	<6.35		µg/kg-dry	6.35	1	04/15/25 11:45	04/15/25 09:00
Bromochloromethane	EPA 8260B	<6.35		µg/kg-dry	6.35	1	04/15/25 11:45	04/15/25 09:00
Bromodichloromethane	EPA 8260B	<6.35		µg/kg-dry	6.35	1	04/15/25 11:45	04/15/25 09:00
Bromoform	EPA 8260B	<6.35		µg/kg-dry	6.35	1	04/15/25 11:45	04/15/25 09:00
Carbon disulfide	EPA 8260B	<6.35		µg/kg-dry	6.35	1	04/15/25 11:45	04/15/25 09:00
Carbon tetrachloride	EPA 8260B	<6.35		µg/kg-dry	6.35	1	04/15/25 11:45	04/15/25 09:00
Chlorobenzene	EPA 8260B	<6.35		µg/kg-dry	6.35	1	04/15/25 11:45	04/15/25 09:00
Chlorodibromomethane	EPA 8260B	<6.35		µg/kg-dry	6.35	1	04/15/25 11:45	04/15/25 09:00
Chloroethane (Ethyl chloride)	EPA 8260B	<6.35		µg/kg-dry	6.35	1	04/15/25 11:45	04/15/25 09:00
Chloroform	EPA 8260B	<6.35		µg/kg-dry	6.35	1	04/15/25 11:45	04/15/25 09:00
cis & trans-1,2-Dichloroethene	EPA 8260B	<12.7		µg/kg-dry	12.7	1	04/15/25 11:45	04/15/25 09:00
cis-1,2-Dichloroethylene	EPA 8260B	<6.35		µg/kg-dry	6.35	1	04/15/25 11:45	04/15/25 09:00
cis-1,3-Dichloropropene	EPA 8260B	<6.35		µg/kg-dry	6.35	1	04/15/25 11:45	04/15/25 09:00
Dibromomethane (Methylene bromide)	EPA 8260B	<6.35		µg/kg-dry	6.35	1	04/15/25 11:45	04/15/25 09:00
Dichlorodifluoromethane (Freon-12)	EPA 8260B	<10.2		µg/kg-dry	10.2	1	04/15/25 11:45	04/15/25 09:00

Client:	Advanced Geologic Sciences, LLC	**Work Order:**	CC2502268
Project:	Kenton Ohio RMR	**Date Collected:**	04/04/25 10:59
Matrix:	SOIL/SOLID	**Date Received:**	04/07/25 10:30

CLIENT ID: SB-3 (8-10) **Lab ID: CC2502268-003**

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Ethylbenzene	EPA 8260B	<6.35		µg/kg-dry	6.35	1	04/15/25 11:45	04/15/25 09:00
Hexachlorobutadiene	EPA 8260B	<6.35		µg/kg-dry	6.35	1	04/15/25 11:45	04/15/25 09:00
Isopropylbenzene	EPA 8260B	<6.35		µg/kg-dry	6.35	1	04/15/25 11:45	04/15/25 09:00
m+p-Xylene	EPA 8260B	<12.7		µg/kg-dry	12.7	1	04/15/25 11:45	04/15/25 09:00
Methyl bromide (Bromomethane)	EPA 8260B	<6.35		µg/kg-dry	6.35	1	04/15/25 11:45	04/15/25 09:00
Methyl chloride (Chloromethane)	EPA 8260B	<6.35		µg/kg-dry	6.35	1	04/15/25 11:45	04/15/25 09:00
Methyl tert-butyl ether (MTBE)	EPA 8260B	<6.35		µg/kg-dry	6.35	1	04/15/25 11:45	04/15/25 09:00
Methylene chloride (Dichloromethane)	EPA 8260B	<25.4		µg/kg-dry	25.4	1	04/15/25 11:45	04/15/25 09:00
Naphthalene	EPA 8260B	<6.35		µg/kg-dry	6.35	1	04/15/25 11:45	04/15/25 09:00
n-Butylbenzene	EPA 8260B	<6.35		µg/kg-dry	6.35	1	04/15/25 11:45	04/15/25 09:00
n-Propylbenzene	EPA 8260B	<6.35		µg/kg-dry	6.35	1	04/15/25 11:45	04/15/25 09:00
o-Xylene	EPA 8260B	<6.35		µg/kg-dry	6.35	1	04/15/25 11:45	04/15/25 09:00
sec-Butylbenzene	EPA 8260B	<6.35		µg/kg-dry	6.35	1	04/15/25 11:45	04/15/25 09:00
Styrene	EPA 8260B	<6.35		µg/kg-dry	6.35	1	04/15/25 11:45	04/15/25 09:00
tert-Butylbenzene	EPA 8260B	<6.35		µg/kg-dry	6.35	1	04/15/25 11:45	04/15/25 09:00
Tetrachloroethylene (Perchloroethylene)	EPA 8260B	<6.35		µg/kg-dry	6.35	1	04/15/25 11:45	04/15/25 09:00
Toluene	EPA 8260B	<6.35		µg/kg-dry	6.35	1	04/15/25 11:45	04/15/25 09:00
Total Xylene	EPA 8260B	<19.0		µg/kg-dry	19.0	1	04/15/25 11:45	04/15/25 09:00
trans-1,2-Dichloroethylene	EPA 8260B	<6.35		µg/kg-dry	6.35	1	04/15/25 11:45	04/15/25 09:00
trans-1,3-Dichloropropylene	EPA 8260B	<6.35		µg/kg-dry	6.35	1	04/15/25 11:45	04/15/25 09:00
Trichloroethene (Trichloroethylene)	EPA 8260B	<6.35		µg/kg-dry	6.35	1	04/15/25 11:45	04/15/25 09:00
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	EPA 8260B	<6.35		µg/kg-dry	6.35	1	04/15/25 11:45	04/15/25 09:00
Vinyl chloride (Chloroethene)	EPA 8260B	<6.35		µg/kg-dry	6.35	1	04/15/25 11:45	04/15/25 09:00
Surr: 4-Bromofluorobenzene	*EPA 8260B*	***99.9***		*%REC*	*78.9-128*	*1*	*04/15/25 11:45*	*04/15/25 09:00*

Client:	Advanced Geologic Sciences, LLC	**Work Order:**	CC2502268
Project:	Kenton Ohio RMR	**Date Collected:**	04/04/25 10:59
Matrix:	SOIL/SOLID	**Date Received:**	04/07/25 10:30

CLIENT ID: SB-3 (8-10) **Lab ID: CC2502268-003**

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Surr: Dibromofluoromethane	*EPA 8260B*	***112***		*%REC*	*79.1-140*	*1*	*04/15/25 11:45*	*04/15/25 09:00*
Surr: Toluene-d8	*EPA 8260B*	***104***		*%REC*	*84.5-124*	*1*	*04/15/25 11:45*	*04/15/25 09:00*

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Project:	Kenton Ohio RMR	**Date Collected:**	04/04/25 11:20
Matrix:	SOIL/SOLID	**Date Received:**	04/07/25 10:30

CLIENT ID: SB-4 (8-10) **Lab ID: CC2502268-004**

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Diesel Range Organics by GC-FID								
Diesel Range Organics C10-C20	EPA 8015B	**176**		mg/kg-dry	16.1	1	04/21/25 16:01	04/17/25 15:10
Oil Range Organics C20-C34	EPA 8015B	**21.5**		mg/kg-dry	16.1	1	04/21/25 16:01	04/17/25 15:10
Surr: n-Nonane	*EPA 8015B*	***85.8***		*%REC*	*33-88*	*1*	*04/21/25 16:01*	*04/17/25 15:10*
Surr: n-Pentacosane	*EPA 8015B*	***88.6***		*%REC*	*40.9-99.9*	*1*	*04/21/25 16:01*	*04/17/25 15:10*
Gasoline Range Organics by GC-FID								
Gasoline Range Organics C6-C12	EPA 8015A	**36.0**		mg/kg-dry	2.42	1	04/15/25 08:56	04/15/25 08:54
Surr: Cyclooctane	*EPA 8015A*	***146***		*%REC*	*65.2-156*	*1*	*04/15/25 08:56*	*04/15/25 08:54*
General Chemistry Parameters								
Percent Moisture	SM 2540 B-2016	**17.3**		%	0.1	1	04/11/25 15:00	NA
Semivolatile Organic Compounds by GC-MS								
1,2,4,5-Tetrachlorobenzene	EPA 8270C	<398		µg/kg-dry	398	1	04/16/25 14:53	04/15/25 11:22
1,2,4-Trichlorobenzene	EPA 8270C	<398		µg/kg-dry	398	1	04/16/25 14:53	04/15/25 11:22
1,2-Dichlorobenzene (o-Dichlorobenzene)	EPA 8270C	<398		µg/kg-dry	398	1	04/16/25 14:53	04/15/25 11:22
1,3-Dichlorobenzene (m-Dichlorobenzene)	EPA 8270C	<398		µg/kg-dry	398	1	04/16/25 14:53	04/15/25 11:22
1,3-Dinitrobenzene (1,3-DNB)	EPA 8270C	<398		µg/kg-dry	398	1	04/16/25 14:53	04/15/25 11:22
1,4-Dichlorobenzene (p-Dichlorobenzene)	EPA 8270C	<398		µg/kg-dry	398	1	04/16/25 14:53	04/15/25 11:22
1-Methylnaphthalene	EPA 8270C	**3200**		µg/kg-dry	241	1	04/16/25 14:53	04/15/25 11:22
1-Naphthylamine	EPA 8270C	<398		µg/kg-dry	398	1	04/16/25 14:53	04/15/25 11:22
2,2'-Oxybis(1-chloropropane), bis(2-Chloro-1-methylethyl) ether	EPA 8270C	<398		µg/kg-dry	398	1	04/16/25 14:53	04/15/25 11:22
2,3,4,6-Tetrachlorophenol	EPA 8270C	<398		µg/kg-dry	398	1	04/16/25 14:53	04/15/25 11:22
2,4,5-Trichlorophenol	EPA 8270C	<398		µg/kg-dry	398	1	04/16/25 14:53	04/15/25 11:22
2,4,6-Trichlorophenol	EPA 8270C	<398		µg/kg-dry	398	1	04/16/25 14:53	04/15/25 11:22
2,4-Dichlorophenol	EPA 8270C	<398		µg/kg-dry	398	1	04/16/25 14:53	04/15/25 11:22

Client:	Advanced Geologic Sciences, LLC	**Work Order:**	CC2502268
Project:	Kenton Ohio RMR	**Date Collected:**	04/04/25 11:20
Matrix:	SOIL/SOLID	**Date Received:**	04/07/25 10:30

CLIENT ID: SB-4 (8-10) **Lab ID: CC2502268-004**

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
2,4-Dimethylphenol	EPA 8270C	<398		µg/kg-dry	398	1	04/16/25 14:53	04/15/25 11:22
2,4-Dinitrophenol	EPA 8270C	<2000		µg/kg-dry	2000	1	04/16/25 14:53	04/15/25 11:22
2,4-Dinitrotoluene (2,4-DNT)	EPA 8270C	<398		µg/kg-dry	398	1	04/16/25 14:53	04/15/25 11:22
2,6-Dichlorophenol	EPA 8270C	<398		µg/kg-dry	398	1	04/16/25 14:53	04/15/25 11:22
2,6-Dinitrotoluene (2,6-DNT)	EPA 8270C	<398		µg/kg-dry	398	1	04/16/25 14:53	04/15/25 11:22
2-Acetylaminofluorene	EPA 8270C	<398		µg/kg-dry	398	1	04/16/25 14:53	04/15/25 11:22
2-Amino-4-nitrotoluene (5-Nitro-o-toluidine)	EPA 8270C	<398		µg/kg-dry	398	1	04/16/25 14:53	04/15/25 11:22
2-Chloronaphthalene	EPA 8270C	<398		µg/kg-dry	398	1	04/16/25 14:53	04/15/25 11:22
2-Chlorophenol	EPA 8270C	<398		µg/kg-dry	398	1	04/16/25 14:53	04/15/25 11:22
2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	EPA 8270C	<2000		µg/kg-dry	2000	1	04/16/25 14:53	04/15/25 11:22
2-Methylaniline (o-Toluidine)	EPA 8270C	<2000		µg/kg-dry	2000	1	04/16/25 14:53	04/15/25 11:22
2-Methylnaphthalene	EPA 8270C	**7670**		µg/kg-dry	1210	5	04/16/25 17:06	04/15/25 11:22
2-Methylphenol (o-Cresol)	EPA 8270C	<398		µg/kg-dry	398	1	04/16/25 14:53	04/15/25 11:22
2-Naphthylamine	EPA 8270C	<398		µg/kg-dry	398	1	04/16/25 14:53	04/15/25 11:22
2-Nitroaniline	EPA 8270C	<2000		µg/kg-dry	2000	1	04/16/25 14:53	04/15/25 11:22
2-Nitrophenol	EPA 8270C	<398		µg/kg-dry	398	1	04/16/25 14:53	04/15/25 11:22
2-Picoline (2-Methylpyridine)	EPA 8270C	<398		µg/kg-dry	398	1	04/16/25 14:53	04/15/25 11:22
3&4-Methylphenol	EPA 8270C	<398		µg/kg-dry	398	1	04/16/25 14:53	04/15/25 11:22
3,3'-Dichlorobenzidine	EPA 8270C	<797		µg/kg-dry	797	1	04/16/25 14:53	04/15/25 11:22
3-Methylcholanthrene	EPA 8270C	<398		µg/kg-dry	398	1	04/16/25 14:53	04/15/25 11:22
3-Nitroaniline	EPA 8270C	<2000		µg/kg-dry	2000	1	04/16/25 14:53	04/15/25 11:22
4-Aminobiphenyl	EPA 8270C	<797		µg/kg-dry	797	1	04/16/25 14:53	04/15/25 11:22
4-Bromophenyl phenyl ether (BDE-3)	EPA 8270C	<398		µg/kg-dry	398	1	04/16/25 14:53	04/15/25 11:22

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CLIENT ID: SB-4 (8-10) **Lab ID: CC2502268-004**

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
4-Chloro-3-methylphenol	EPA 8270C	<797		µg/kg-dry	797	1	04/16/25 14:53	04/15/25 11:22
4-Chloroaniline	EPA 8270C	<797		µg/kg-dry	797	1	04/16/25 14:53	04/15/25 11:22
4-Chlorophenyl phenylether	EPA 8270C	<398		µg/kg-dry	398	1	04/16/25 14:53	04/15/25 11:22
4-Dimethyl aminoazobenzene	EPA 8270C	<398		µg/kg-dry	398	1	04/16/25 14:53	04/15/25 11:22
4-Nitroaniline	EPA 8270C	<797		µg/kg-dry	797	1	04/16/25 14:53	04/15/25 11:22
4-Nitrophenol	EPA 8270C	<2000		µg/kg-dry	2000	1	04/16/25 14:53	04/15/25 11:22
4-Nitroquinoline-1-oxide	EPA 8270C	<2000		µg/kg-dry	2000	1	04/16/25 14:53	04/15/25 11:22
7,12-Dimethylbenz(a) anthracene	EPA 8270C	<398		µg/kg-dry	398	1	04/16/25 14:53	04/15/25 11:22
Acenaphthene	EPA 8270C	<241		µg/kg-dry	241	1	04/16/25 14:53	04/15/25 11:22
Acenaphthylene	EPA 8270C	<241		µg/kg-dry	241	1	04/16/25 14:53	04/15/25 11:22
Acetophenone	EPA 8270C	<398		µg/kg-dry	398	1	04/16/25 14:53	04/15/25 11:22
Aniline	EPA 8270C	<398		µg/kg-dry	398	1	04/16/25 14:53	04/15/25 11:22
Anthracene	EPA 8270C	<241		µg/kg-dry	241	1	04/16/25 14:53	04/15/25 11:22
Azobenzene	EPA 8270C	<398		µg/kg-dry	398	1	04/16/25 14:53	04/15/25 11:22
Benzidine	EPA 8270C	<398		µg/kg-dry	398	1	04/16/25 14:53	04/15/25 11:22
Benzo(a)anthracene	EPA 8270C	<121		µg/kg-dry	121	1	04/16/25 14:53	04/15/25 11:22
Benzo(a)pyrene	EPA 8270C	<121		µg/kg-dry	121	1	04/16/25 14:53	04/15/25 11:22
Benzo(b)fluoranthene	EPA 8270C	<241		µg/kg-dry	241	1	04/16/25 14:53	04/15/25 11:22
Benzo(g,h,i)perylene	EPA 8270C	<241		µg/kg-dry	241	1	04/16/25 14:53	04/15/25 11:22
Benzo(k)fluoranthene	EPA 8270C	<241		µg/kg-dry	241	1	04/16/25 14:53	04/15/25 11:22
Benzyl alcohol	EPA 8270C	<797		µg/kg-dry	797	1	04/16/25 14:53	04/15/25 11:22
bis(2-Chloroethoxy) methane	EPA 8270C	<398		µg/kg-dry	398	1	04/16/25 14:53	04/15/25 11:22
bis(2-Chloroethyl) ether	EPA 8270C	<398		µg/kg-dry	398	1	04/16/25 14:53	04/15/25 11:22
Butyl benzyl phthalate	EPA 8270C	<398		µg/kg-dry	398	1	04/16/25 14:53	04/15/25 11:22

Client:	Advanced Geologic Sciences, LLC	**Work Order:**	CC2502268
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Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Carbazole	EPA 8270C	<241		µg/kg-dry	241	1	04/16/25 14:53	04/15/25 11:22
Chrysene	EPA 8270C	<241		µg/kg-dry	241	1	04/16/25 14:53	04/15/25 11:22
Di(2-ethylhexyl) phthalate (bis(2-Ethylhexyl) phthalate, DEHP)	EPA 8270C	<398		µg/kg-dry	398	1	04/16/25 14:53	04/15/25 11:22
Dibenz(a,h) anthracene	EPA 8270C	<121		µg/kg-dry	121	1	04/16/25 14:53	04/15/25 11:22
Dibenzofuran	EPA 8270C	<241		µg/kg-dry	241	1	04/16/25 14:53	04/15/25 11:22
Diethyl phthalate	EPA 8270C	<398		µg/kg-dry	398	1	04/16/25 14:53	04/15/25 11:22
Dimethyl phthalate	EPA 8270C	<398		µg/kg-dry	398	1	04/16/25 14:53	04/15/25 11:22
Di-n-butyl phthalate	EPA 8270C	<398		µg/kg-dry	398	1	04/16/25 14:53	04/15/25 11:22
Di-n-octyl phthalate	EPA 8270C	<398		µg/kg-dry	398	1	04/16/25 14:53	04/15/25 11:22
Dinoseb (2-sec-butyl-4,6-dinitrophenol, DNBP)	EPA 8270C	<398		µg/kg-dry	398	1	04/16/25 14:53	04/15/25 11:22
Diphenylamine	EPA 8270C	<398		µg/kg-dry	398	1	04/16/25 14:53	04/15/25 11:22
Ethyl methanesulfonate	EPA 8270C	<398		µg/kg-dry	398	1	04/16/25 14:53	04/15/25 11:22
Fluoranthene	EPA 8270C	<241		µg/kg-dry	241	1	04/16/25 14:53	04/15/25 11:22
Fluorene	EPA 8270C	<241		µg/kg-dry	241	1	04/16/25 14:53	04/15/25 11:22
Hexachlorobenzene	EPA 8270C	<398		µg/kg-dry	398	1	04/16/25 14:53	04/15/25 11:22
Hexachlorobutadiene	EPA 8270C	<398		µg/kg-dry	398	1	04/16/25 14:53	04/15/25 11:22
Hexachlorocyclopentadiene	EPA 8270C	<398		µg/kg-dry	398	1	04/16/25 14:53	04/15/25 11:22
Hexachloroethane	EPA 8270C	<398		µg/kg-dry	398	1	04/16/25 14:53	04/15/25 11:22
Indeno(1,2,3-cd) pyrene	EPA 8270C	<121		µg/kg-dry	121	1	04/16/25 14:53	04/15/25 11:22
Isophorone	EPA 8270C	<398		µg/kg-dry	398	1	04/16/25 14:53	04/15/25 11:22
Isosafrole	EPA 8270C	<398		µg/kg-dry	398	1	04/16/25 14:53	04/15/25 11:22
Methapyrilene	EPA 8270C	<2000		µg/kg-dry	2000	1	04/16/25 14:53	04/15/25 11:22
Methyl methanesulfonate	EPA 8270C	<398		µg/kg-dry	398	1	04/16/25 14:53	04/15/25 11:22

Client:	Advanced Geologic Sciences, LLC	**Work Order:**	CC2502268
Project:	Kenton Ohio RMR	**Date Collected:**	04/04/25 11:20
Matrix:	SOIL/SOLID	**Date Received:**	04/07/25 10:30

CLIENT ID: SB-4 (8-10) **Lab ID: CC2502268-004**

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Methylphenol, Total	EPA 8270C	<797		µg/kg-dry	797	1	04/16/25 14:53	04/15/25 11:22
Naphthalene	EPA 8270C	**6390**		µg/kg-dry	1210	5	04/16/25 17:06	04/15/25 11:22
Nitrobenzene	EPA 8270C	<398		µg/kg-dry	398	1	04/16/25 14:53	04/15/25 11:22
n-Nitrosodiethylamine	EPA 8270C	<398		µg/kg-dry	398	1	04/16/25 14:53	04/15/25 11:22
n-Nitrosodimethylamine	EPA 8270C	<398		µg/kg-dry	398	1	04/16/25 14:53	04/15/25 11:22
n-Nitroso-di-n-butylamine	EPA 8270C	<398		µg/kg-dry	398	1	04/16/25 14:53	04/15/25 11:22
n-Nitrosodi-n-propylamine	EPA 8270C	<398		µg/kg-dry	398	1	04/16/25 14:53	04/15/25 11:22
n-Nitrosomethylethylamine	EPA 8270C	<398		µg/kg-dry	398	1	04/16/25 14:53	04/15/25 11:22
n-Nitrosomorpholine	EPA 8270C	<398		µg/kg-dry	398	1	04/16/25 14:53	04/15/25 11:22
n-Nitrosopiperidine	EPA 8270C	<398		µg/kg-dry	398	1	04/16/25 14:53	04/15/25 11:22
n-Nitrosopyrrolidine	EPA 8270C	<398		µg/kg-dry	398	1	04/16/25 14:53	04/15/25 11:22
Pentachlorobenzene	EPA 8270C	<398		µg/kg-dry	398	1	04/16/25 14:53	04/15/25 11:22
Pentachloroethane	EPA 8270C	<398		µg/kg-dry	398	1	04/16/25 14:53	04/15/25 11:22
Pentachloronitrobenzene	EPA 8270C	<797		µg/kg-dry	797	1	04/16/25 14:53	04/15/25 11:22
Pentachlorophenol	EPA 8270C	<2000		µg/kg-dry	2000	1	04/16/25 14:53	04/15/25 11:22
Phenacetin	EPA 8270C	<797		µg/kg-dry	797	1	04/16/25 14:53	04/15/25 11:22
Phenanthrene	EPA 8270C	<241		µg/kg-dry	241	1	04/16/25 14:53	04/15/25 11:22
Phenol	EPA 8270C	<398		µg/kg-dry	398	1	04/16/25 14:53	04/15/25 11:22
Pyrene	EPA 8270C	<241		µg/kg-dry	241	1	04/16/25 14:53	04/15/25 11:22
Pyridine	EPA 8270C	<398		µg/kg-dry	398	1	04/16/25 14:53	04/15/25 11:22
Safrole	EPA 8270C	<398		µg/kg-dry	398	1	04/16/25 14:53	04/15/25 11:22
Surr: 2,4,6-Tribromophenol	*EPA 8270C*	***85.8***		*%REC*	*14.2-136*	*1*	*04/16/25 14:53*	*04/15/25 11:22*
Surr: 2-Fluorobiphenyl	*EPA 8270C*	***84.7***		*%REC*	*30-116*	*1*	*04/16/25 14:53*	*04/15/25 11:22*
Surr: 2-Fluorophenol	*EPA 8270C*	***83.3***		*%REC*	*5.42-113*	*1*	*04/16/25 14:53*	*04/15/25 11:22*
Surr: 4-Terphenyl-d14	*EPA 8270C*	***83.4***		*%REC*	*27.3-138*	*1*	*04/16/25 14:53*	*04/15/25 11:22*

Client:	Advanced Geologic Sciences, LLC	**Work Order:**	CC2502268
Project:	Kenton Ohio RMR	**Date Collected:**	04/04/25 11:20
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CLIENT ID: SB-4 (8-10) **Lab ID: CC2502268-004**

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Surr: Nitrobenzene-d5	*EPA 8270C*	***100***		*%REC*	*23.7-109*	*1*	*04/16/25 14:53*	*04/15/25 11:22*
Surr: Phenol-d6	*EPA 8270C*	***85.7***		*%REC*	*13.8-108*	*1*	*04/16/25 14:53*	*04/15/25 11:22*
Volatile Organic Compounds by GC-MS								
1,1,1,2-Tetrachloroethane	EPA 8260B	<302		µg/kg-dry	302	50	04/15/25 17:37	04/15/25 09:00
1,1,1-Trichloroethane	EPA 8260B	<302		µg/kg-dry	302	50	04/15/25 17:37	04/15/25 09:00
1,1,2,2-Tetrachloroethane	EPA 8260B	<302		µg/kg-dry	302	50	04/15/25 17:37	04/15/25 09:00
1,1,2-Trichloroethane	EPA 8260B	<302		µg/kg-dry	302	50	04/15/25 17:37	04/15/25 09:00
1,1-Dichloroethane	EPA 8260B	<302		µg/kg-dry	302	50	04/15/25 17:37	04/15/25 09:00
1,1-Dichloroethylene	EPA 8260B	<302		µg/kg-dry	302	50	04/15/25 17:37	04/15/25 09:00
1,1-Dichloropropene	EPA 8260B	<302		µg/kg-dry	302	50	04/15/25 17:37	04/15/25 09:00
1,2,3-Trichlorobenzene	EPA 8260B	<302		µg/kg-dry	302	50	04/15/25 17:37	04/15/25 09:00
1,2,3-Trichloropropane	EPA 8260B	<302		µg/kg-dry	302	50	04/15/25 17:37	04/15/25 09:00
1,2,4-Trichlorobenzene	EPA 8260B	<302		µg/kg-dry	302	50	04/15/25 17:37	04/15/25 09:00
1,2,4-Trimethylbenzene	EPA 8260B	<302		µg/kg-dry	302	50	04/15/25 17:37	04/15/25 09:00
1,2-Dibromo-3-chloropropane (DBCP)	EPA 8260B	<302		µg/kg-dry	302	50	04/15/25 17:37	04/15/25 09:00
1,2-Dibromoethane (EDB, Ethylene dibromide)	EPA 8260B	<46.5		µg/kg-dry	46.5	50	04/15/25 17:37	04/15/25 09:00
1,2-Dichlorobenzene (o-Dichlorobenzene)	EPA 8260B	<302		µg/kg-dry	302	50	04/15/25 17:37	04/15/25 09:00
1,2-Dichloroethane (Ethylene dichloride)	EPA 8260B	<302		µg/kg-dry	302	50	04/15/25 17:37	04/15/25 09:00
1,2-Dichloropropane	EPA 8260B	<302		µg/kg-dry	302	50	04/15/25 17:37	04/15/25 09:00
1,3,5-Trimethylbenzene	EPA 8260B	<302		µg/kg-dry	302	50	04/15/25 17:37	04/15/25 09:00
1,3-Dichlorobenzene (m-Dichlorobenzene)	EPA 8260B	<302		µg/kg-dry	302	50	04/15/25 17:37	04/15/25 09:00
1,3-Dichloropropane	EPA 8260B	<302		µg/kg-dry	302	50	04/15/25 17:37	04/15/25 09:00
1,3-Dichloropropene	EPA 8260B	<604		µg/kg-dry	604	50	04/15/25 17:37	04/15/25 09:00
1,4-Dichlorobenzene (p-Dichlorobenzene)	EPA 8260B	<302		µg/kg-dry	302	50	04/15/25 17:37	04/15/25 09:00

Client:	Advanced Geologic Sciences, LLC	**Work Order:**	CC2502268
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CLIENT ID: SB-4 (8-10) **Lab ID: CC2502268-004**

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
2,2-Dichloropropane	EPA 8260B	<302		µg/kg-dry	302	50	04/15/25 17:37	04/15/25 09:00
2-Butanone (Methyl ethyl ketone, MEK)	EPA 8260B	<3020		µg/kg-dry	3020	50	04/15/25 17:37	04/15/25 09:00
2-Chlorotoluene	EPA 8260B	<302		µg/kg-dry	302	50	04/15/25 17:37	04/15/25 09:00
2-Hexanone	EPA 8260B	<302		µg/kg-dry	302	50	04/15/25 17:37	04/15/25 09:00
4-Chlorotoluene	EPA 8260B	<302		µg/kg-dry	302	50	04/15/25 17:37	04/15/25 09:00
4-Isopropyltoluene (p-Cymene)	EPA 8260B	**733**		µg/kg-dry	302	50	04/15/25 17:37	04/15/25 09:00
4-Methyl-2-pentanone (MIBK)	EPA 8260B	<302		µg/kg-dry	302	50	04/15/25 17:37	04/15/25 09:00
Acetone	EPA 8260B	<3020		µg/kg-dry	3020	50	04/15/25 17:37	04/15/25 09:00
Benzene	EPA 8260B	<302		µg/kg-dry	302	50	04/15/25 17:37	04/15/25 09:00
Bromobenzene	EPA 8260B	<302		µg/kg-dry	302	50	04/15/25 17:37	04/15/25 09:00
Bromochloromethane	EPA 8260B	<302		µg/kg-dry	302	50	04/15/25 17:37	04/15/25 09:00
Bromodichloromethane	EPA 8260B	<302		µg/kg-dry	302	50	04/15/25 17:37	04/15/25 09:00
Bromoform	EPA 8260B	<302		µg/kg-dry	302	50	04/15/25 17:37	04/15/25 09:00
Carbon disulfide	EPA 8260B	<302		µg/kg-dry	302	50	04/15/25 17:37	04/15/25 09:00
Carbon tetrachloride	EPA 8260B	<302		µg/kg-dry	302	50	04/15/25 17:37	04/15/25 09:00
Chlorobenzene	EPA 8260B	<302		µg/kg-dry	302	50	04/15/25 17:37	04/15/25 09:00
Chlorodibromomethane	EPA 8260B	<302		µg/kg-dry	302	50	04/15/25 17:37	04/15/25 09:00
Chloroethane (Ethyl chloride)	EPA 8260B	<302		µg/kg-dry	302	50	04/15/25 17:37	04/15/25 09:00
Chloroform	EPA 8260B	<302		µg/kg-dry	302	50	04/15/25 17:37	04/15/25 09:00
cis & trans-1,2-Dichloroethene	EPA 8260B	<604		µg/kg-dry	604	50	04/15/25 17:37	04/15/25 09:00
cis-1,2-Dichloroethylene	EPA 8260B	<302		µg/kg-dry	302	50	04/15/25 17:37	04/15/25 09:00
cis-1,3-Dichloropropene	EPA 8260B	<302		µg/kg-dry	302	50	04/15/25 17:37	04/15/25 09:00
Dibromomethane (Methylene bromide)	EPA 8260B	<302		µg/kg-dry	302	50	04/15/25 17:37	04/15/25 09:00
Dichlorodifluoromethane (Freon-12)	EPA 8260B	<483		µg/kg-dry	483	50	04/15/25 17:37	04/15/25 09:00

Client:	Advanced Geologic Sciences, LLC	**Work Order:**	CC2502268
Project:	Kenton Ohio RMR	**Date Collected:**	04/04/25 11:20
Matrix:	SOIL/SOLID	**Date Received:**	04/07/25 10:30

CLIENT ID: SB-4 (8-10) **Lab ID: CC2502268-004**

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Ethylbenzene	EPA 8260B	**1270**		µg/kg-dry	302	50	04/15/25 17:37	04/15/25 09:00
Hexachlorobutadiene	EPA 8260B	<302		µg/kg-dry	302	50	04/15/25 17:37	04/15/25 09:00
Isopropylbenzene	EPA 8260B	**734**		µg/kg-dry	302	50	04/15/25 17:37	04/15/25 09:00
m+p-Xylene	EPA 8260B	**930**		µg/kg-dry	604	50	04/15/25 17:37	04/15/25 09:00
Methyl bromide (Bromomethane)	EPA 8260B	<302		µg/kg-dry	302	50	04/15/25 17:37	04/15/25 09:00
Methyl chloride (Chloromethane)	EPA 8260B	<302		µg/kg-dry	302	50	04/15/25 17:37	04/15/25 09:00
Methyl tert-butyl ether (MTBE)	EPA 8260B	<302		µg/kg-dry	302	50	04/15/25 17:37	04/15/25 09:00
Methylene chloride (Dichloromethane)	EPA 8260B	<1210		µg/kg-dry	1210	50	04/15/25 17:37	04/15/25 09:00
Naphthalene	EPA 8260B	**5890**		µg/kg-dry	302	50	04/15/25 17:37	04/15/25 09:00
n-Butylbenzene	EPA 8260B	**646**		µg/kg-dry	302	50	04/15/25 17:37	04/15/25 09:00
n-Propylbenzene	EPA 8260B	**1740**		µg/kg-dry	302	50	04/15/25 17:37	04/15/25 09:00
o-Xylene	EPA 8260B	<302		µg/kg-dry	302	50	04/15/25 17:37	04/15/25 09:00
sec-Butylbenzene	EPA 8260B	<302		µg/kg-dry	302	50	04/15/25 17:37	04/15/25 09:00
Styrene	EPA 8260B	<302		µg/kg-dry	302	50	04/15/25 17:37	04/15/25 09:00
tert-Butylbenzene	EPA 8260B	<302		µg/kg-dry	302	50	04/15/25 17:37	04/15/25 09:00
Tetrachloroethylene (Perchloroethylene)	EPA 8260B	<302		µg/kg-dry	302	50	04/15/25 17:37	04/15/25 09:00
Toluene	EPA 8260B	<302		µg/kg-dry	302	50	04/15/25 17:37	04/15/25 09:00
Total Xylene	EPA 8260B	**930**		µg/kg-dry	906	50	04/15/25 17:37	04/15/25 09:00
trans-1,2-Dichloroethylene	EPA 8260B	<302		µg/kg-dry	302	50	04/15/25 17:37	04/15/25 09:00
trans-1,3-Dichloropropylene	EPA 8260B	<302		µg/kg-dry	302	50	04/15/25 17:37	04/15/25 09:00
Trichloroethene (Trichloroethylene)	EPA 8260B	<302		µg/kg-dry	302	50	04/15/25 17:37	04/15/25 09:00
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	EPA 8260B	<302		µg/kg-dry	302	50	04/15/25 17:37	04/15/25 09:00
Vinyl chloride (Chloroethene)	EPA 8260B	<302		µg/kg-dry	302	50	04/15/25 17:37	04/15/25 09:00
Surr: 4-Bromofluorobenzene	*EPA 8260B*	***108***		*%REC*	*78.9-128*	*50*	*04/15/25 17:37*	*04/15/25 09:00*

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Project:	Kenton Ohio RMR	**Date Collected:**	04/04/25 11:20
Matrix:	SOIL/SOLID	**Date Received:**	04/07/25 10:30

CLIENT ID: SB-4 (8-10) **Lab ID: CC2502268-004**

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Surr: Dibromofluoromethane	*EPA 8260B*	***97.6***		*%REC*	*79.1-140*	*50*	*04/15/25 17:37*	*04/15/25 09:00*
Surr: Toluene-d8	*EPA 8260B*	***94.2***		*%REC*	*84.5-124*	*50*	*04/15/25 17:37*	*04/15/25 09:00*

Client:	Advanced Geologic Sciences, LLC	**Work Order:**	CC2502268
Project:	Kenton Ohio RMR	**Date Collected:**	04/04/25 11:46
Matrix:	SOIL/SOLID	**Date Received:**	04/07/25 10:30

CLIENT ID: SB-5 (4-6) **Lab ID: CC2502268-005**

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Diesel Range Organics by GC-FID								
Diesel Range Organics C10-C20	EPA 8015B	<16.0		mg/kg-dry	16.0	1	04/21/25 16:16	04/17/25 15:10
Oil Range Organics C20-C34	EPA 8015B	**40.9**		mg/kg-dry	16.0	1	04/21/25 16:16	04/17/25 15:10
Surr: n-Nonane	*EPA 8015B*	***92.5***	*S*	*%REC*	*33-88*	*1*	*04/21/25 16:16*	*04/17/25 15:10*
Surr: n-Pentacosane	*EPA 8015B*	***90.1***		*%REC*	*40.9-99.9*	*1*	*04/21/25 16:16*	*04/17/25 15:10*
Gasoline Range Organics by GC-FID								
Gasoline Range Organics C6-C12	EPA 8015A	<2.40		mg/kg-dry	2.40	1	04/15/25 08:56	04/15/25 08:54
Surr: Cyclooctane	*EPA 8015A*	***94.0***		*%REC*	*65.2-156*	*1*	*04/15/25 08:56*	*04/15/25 08:54*
General Chemistry Parameters								
Percent Moisture	SM 2540 B-2016	**16.8**		%	0.1	1	04/11/25 15:00	NA
Semivolatile Organic Compounds by GC-MS								
1,2,4,5-Tetrachlorobenzene	EPA 8270C	<397		µg/kg-dry	397	1	04/17/25 11:03	04/16/25 16:18
1,2,4-Trichlorobenzene	EPA 8270C	<397		µg/kg-dry	397	1	04/17/25 11:03	04/16/25 16:18
1,2-Dichlorobenzene (o-Dichlorobenzene)	EPA 8270C	<397		µg/kg-dry	397	1	04/17/25 11:03	04/16/25 16:18
1,3-Dichlorobenzene (m-Dichlorobenzene)	EPA 8270C	<397		µg/kg-dry	397	1	04/17/25 11:03	04/16/25 16:18
1,3-Dinitrobenzene (1,3-DNB)	EPA 8270C	<397		µg/kg-dry	397	1	04/17/25 11:03	04/16/25 16:18
1,4-Dichlorobenzene (p-Dichlorobenzene)	EPA 8270C	<397		µg/kg-dry	397	1	04/17/25 11:03	04/16/25 16:18
1-Methylnaphthalene	EPA 8270C	<241		µg/kg-dry	241	1	04/17/25 11:03	04/16/25 16:18
1-Naphthylamine	EPA 8270C	<397		µg/kg-dry	397	1	04/17/25 11:03	04/16/25 16:18
2,2'-Oxybis(1-chloropropane), bis(2-Chloro-1-methylethyl) ether	EPA 8270C	<397		µg/kg-dry	397	1	04/17/25 11:03	04/16/25 16:18
2,3,4,6-Tetrachlorophenol	EPA 8270C	<397		µg/kg-dry	397	1	04/17/25 11:03	04/16/25 16:18
2,4,5-Trichlorophenol	EPA 8270C	<397		µg/kg-dry	397	1	04/17/25 11:03	04/16/25 16:18
2,4,6-Trichlorophenol	EPA 8270C	<397		µg/kg-dry	397	1	04/17/25 11:03	04/16/25 16:18
2,4-Dichlorophenol	EPA 8270C	<397		µg/kg-dry	397	1	04/17/25 11:03	04/16/25 16:18

Client:	Advanced Geologic Sciences, LLC	**Work Order:**	CC2502268
Project:	Kenton Ohio RMR	**Date Collected:**	04/04/25 11:46
Matrix:	SOIL/SOLID	**Date Received:**	04/07/25 10:30

CLIENT ID: SB-5 (4-6) **Lab ID: CC2502268-005**

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
2,4-Dimethylphenol	EPA 8270C	<397		µg/kg-dry	397	1	04/17/25 11:03	04/16/25 16:18
2,4-Dinitrophenol	EPA 8270C	<1990		µg/kg-dry	1990	1	04/17/25 11:03	04/16/25 16:18
2,4-Dinitrotoluene (2,4-DNT)	EPA 8270C	<397		µg/kg-dry	397	1	04/17/25 11:03	04/16/25 16:18
2,6-Dichlorophenol	EPA 8270C	<397		µg/kg-dry	397	1	04/17/25 11:03	04/16/25 16:18
2,6-Dinitrotoluene (2,6-DNT)	EPA 8270C	<397		µg/kg-dry	397	1	04/17/25 11:03	04/16/25 16:18
2-Acetylaminofluorene	EPA 8270C	<397		µg/kg-dry	397	1	04/17/25 11:03	04/16/25 16:18
2-Amino-4-nitrotoluene (5-Nitro-o-toluidine)	EPA 8270C	<397		µg/kg-dry	397	1	04/17/25 11:03	04/16/25 16:18
2-Chloronaphthalene	EPA 8270C	<397		µg/kg-dry	397	1	04/17/25 11:03	04/16/25 16:18
2-Chlorophenol	EPA 8270C	<397		µg/kg-dry	397	1	04/17/25 11:03	04/16/25 16:18
2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	EPA 8270C	<1990		µg/kg-dry	1990	1	04/17/25 11:03	04/16/25 16:18
2-Methylaniline (o-Toluidine)	EPA 8270C	<1990		µg/kg-dry	1990	1	04/17/25 11:03	04/16/25 16:18
2-Methylnaphthalene	EPA 8270C	<241		µg/kg-dry	241	1	04/17/25 11:03	04/16/25 16:18
2-Methylphenol (o-Cresol)	EPA 8270C	<397		µg/kg-dry	397	1	04/17/25 11:03	04/16/25 16:18
2-Naphthylamine	EPA 8270C	<397		µg/kg-dry	397	1	04/17/25 11:03	04/16/25 16:18
2-Nitroaniline	EPA 8270C	<1990		µg/kg-dry	1990	1	04/17/25 11:03	04/16/25 16:18
2-Nitrophenol	EPA 8270C	<397		µg/kg-dry	397	1	04/17/25 11:03	04/16/25 16:18
2-Picoline (2-Methylpyridine)	EPA 8270C	<397		µg/kg-dry	397	1	04/17/25 11:03	04/16/25 16:18
3&4-Methylphenol	EPA 8270C	<397		µg/kg-dry	397	1	04/17/25 11:03	04/16/25 16:18
3,3'-Dichlorobenzidine	EPA 8270C	<795		µg/kg-dry	795	1	04/17/25 11:03	04/16/25 16:18
3-Methylcholanthrene	EPA 8270C	<397		µg/kg-dry	397	1	04/17/25 11:03	04/16/25 16:18
3-Nitroaniline	EPA 8270C	<1990		µg/kg-dry	1990	1	04/17/25 11:03	04/16/25 16:18
4-Aminobiphenyl	EPA 8270C	<795		µg/kg-dry	795	1	04/17/25 11:03	04/16/25 16:18
4-Bromophenyl phenyl ether (BDE-3)	EPA 8270C	<397		µg/kg-dry	397	1	04/17/25 11:03	04/16/25 16:18

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Project:	Kenton Ohio RMR	**Date Collected:**	04/04/25 11:46
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CLIENT ID: SB-5 (4-6) **Lab ID: CC2502268-005**

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
4-Chloro-3-methylphenol	EPA 8270C	<795		µg/kg-dry	795	1	04/17/25 11:03	04/16/25 16:18
4-Chloroaniline	EPA 8270C	<795		µg/kg-dry	795	1	04/17/25 11:03	04/16/25 16:18
4-Chlorophenyl phenylether	EPA 8270C	<397		µg/kg-dry	397	1	04/17/25 11:03	04/16/25 16:18
4-Dimethyl aminoazobenzene	EPA 8270C	<397		µg/kg-dry	397	1	04/17/25 11:03	04/16/25 16:18
4-Nitroaniline	EPA 8270C	<795		µg/kg-dry	795	1	04/17/25 11:03	04/16/25 16:18
4-Nitrophenol	EPA 8270C	<1990		µg/kg-dry	1990	1	04/17/25 11:03	04/16/25 16:18
4-Nitroquinoline-1-oxide	EPA 8270C	<1990		µg/kg-dry	1990	1	04/17/25 11:03	04/16/25 16:18
7,12-Dimethylbenz(a) anthracene	EPA 8270C	<397		µg/kg-dry	397	1	04/17/25 11:03	04/16/25 16:18
Acenaphthene	EPA 8270C	<241		µg/kg-dry	241	1	04/17/25 11:03	04/16/25 16:18
Acenaphthylene	EPA 8270C	<241		µg/kg-dry	241	1	04/17/25 11:03	04/16/25 16:18
Acetophenone	EPA 8270C	<397		µg/kg-dry	397	1	04/17/25 11:03	04/16/25 16:18
Aniline	EPA 8270C	<397		µg/kg-dry	397	1	04/17/25 11:03	04/16/25 16:18
Anthracene	EPA 8270C	<241		µg/kg-dry	241	1	04/17/25 11:03	04/16/25 16:18
Azobenzene	EPA 8270C	<397		µg/kg-dry	397	1	04/17/25 11:03	04/16/25 16:18
Benzidine	EPA 8270C	<397		µg/kg-dry	397	1	04/17/25 11:03	04/16/25 16:18
Benzo(a)anthracene	EPA 8270C	<120		µg/kg-dry	120	1	04/17/25 11:03	04/16/25 16:18
Benzo(a)pyrene	EPA 8270C	<120		µg/kg-dry	120	1	04/17/25 11:03	04/16/25 16:18
Benzo(b)fluoranthene	EPA 8270C	<241		µg/kg-dry	241	1	04/17/25 11:03	04/16/25 16:18
Benzo(g,h,i)perylene	EPA 8270C	<241		µg/kg-dry	241	1	04/17/25 11:03	04/16/25 16:18
Benzo(k)fluoranthene	EPA 8270C	<241		µg/kg-dry	241	1	04/17/25 11:03	04/16/25 16:18
Benzyl alcohol	EPA 8270C	<795		µg/kg-dry	795	1	04/17/25 11:03	04/16/25 16:18
bis(2-Chloroethoxy) methane	EPA 8270C	<397		µg/kg-dry	397	1	04/17/25 11:03	04/16/25 16:18
bis(2-Chloroethyl) ether	EPA 8270C	<397		µg/kg-dry	397	1	04/17/25 11:03	04/16/25 16:18
Butyl benzyl phthalate	EPA 8270C	<397		µg/kg-dry	397	1	04/17/25 11:03	04/16/25 16:18

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Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Carbazole	EPA 8270C	<241		µg/kg-dry	241	1	04/17/25 11:03	04/16/25 16:18
Chrysene	EPA 8270C	<241		µg/kg-dry	241	1	04/17/25 11:03	04/16/25 16:18
Di(2-ethylhexyl) phthalate (bis(2-Ethylhexyl) phthalate, DEHP)	EPA 8270C	<397		µg/kg-dry	397	1	04/17/25 11:03	04/16/25 16:18
Dibenz(a,h) anthracene	EPA 8270C	<120		µg/kg-dry	120	1	04/17/25 11:03	04/16/25 16:18
Dibenzofuran	EPA 8270C	<241		µg/kg-dry	241	1	04/17/25 11:03	04/16/25 16:18
Diethyl phthalate	EPA 8270C	<397		µg/kg-dry	397	1	04/17/25 11:03	04/16/25 16:18
Dimethyl phthalate	EPA 8270C	<397		µg/kg-dry	397	1	04/17/25 11:03	04/16/25 16:18
Di-n-butyl phthalate	EPA 8270C	<397		µg/kg-dry	397	1	04/17/25 11:03	04/16/25 16:18
Di-n-octyl phthalate	EPA 8270C	<397		µg/kg-dry	397	1	04/17/25 11:03	04/16/25 16:18
Dinoseb (2-sec-butyl-4,6-dinitrophenol, DNBP)	EPA 8270C	<397		µg/kg-dry	397	1	04/17/25 11:03	04/16/25 16:18
Diphenylamine	EPA 8270C	<397		µg/kg-dry	397	1	04/17/25 11:03	04/16/25 16:18
Ethyl methanesulfonate	EPA 8270C	<397		µg/kg-dry	397	1	04/17/25 11:03	04/16/25 16:18
Fluoranthene	EPA 8270C	<241		µg/kg-dry	241	1	04/17/25 11:03	04/16/25 16:18
Fluorene	EPA 8270C	<241		µg/kg-dry	241	1	04/17/25 11:03	04/16/25 16:18
Hexachlorobenzene	EPA 8270C	<397		µg/kg-dry	397	1	04/17/25 11:03	04/16/25 16:18
Hexachlorobutadiene	EPA 8270C	<397		µg/kg-dry	397	1	04/17/25 11:03	04/16/25 16:18
Hexachlorocyclopentadiene	EPA 8270C	<397		µg/kg-dry	397	1	04/17/25 11:03	04/16/25 16:18
Hexachloroethane	EPA 8270C	<397		µg/kg-dry	397	1	04/17/25 11:03	04/16/25 16:18
Indeno(1,2,3-cd) pyrene	EPA 8270C	<120		µg/kg-dry	120	1	04/17/25 11:03	04/16/25 16:18
Isophorone	EPA 8270C	<397		µg/kg-dry	397	1	04/17/25 11:03	04/16/25 16:18
Isosafrole	EPA 8270C	<397		µg/kg-dry	397	1	04/17/25 11:03	04/16/25 16:18
Methapyrilene	EPA 8270C	<1990		µg/kg-dry	1990	1	04/17/25 11:03	04/16/25 16:18
Methyl methanesulfonate	EPA 8270C	<397		µg/kg-dry	397	1	04/17/25 11:03	04/16/25 16:18

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CLIENT ID: SB-5 (4-6) **Lab ID: CC2502268-005**

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Methylphenol, Total	EPA 8270C	<795		µg/kg-dry	795	1	04/17/25 11:03	04/16/25 16:18
Naphthalene	EPA 8270C	<241		µg/kg-dry	241	1	04/17/25 11:03	04/16/25 16:18
Nitrobenzene	EPA 8270C	<397		µg/kg-dry	397	1	04/17/25 11:03	04/16/25 16:18
n-Nitrosodiethylamine	EPA 8270C	<397		µg/kg-dry	397	1	04/17/25 11:03	04/16/25 16:18
n-Nitrosodimethylamine	EPA 8270C	<397		µg/kg-dry	397	1	04/17/25 11:03	04/16/25 16:18
n-Nitroso-di-n-butylamine	EPA 8270C	<397		µg/kg-dry	397	1	04/17/25 11:03	04/16/25 16:18
n-Nitrosodi-n-propylamine	EPA 8270C	<397		µg/kg-dry	397	1	04/17/25 11:03	04/16/25 16:18
n-Nitrosomethylethylamine	EPA 8270C	<397		µg/kg-dry	397	1	04/17/25 11:03	04/16/25 16:18
n-Nitrosomorpholine	EPA 8270C	<397		µg/kg-dry	397	1	04/17/25 11:03	04/16/25 16:18
n-Nitrosopiperidine	EPA 8270C	<397		µg/kg-dry	397	1	04/17/25 11:03	04/16/25 16:18
n-Nitrosopyrrolidine	EPA 8270C	<397		µg/kg-dry	397	1	04/17/25 11:03	04/16/25 16:18
Pentachlorobenzene	EPA 8270C	<397		µg/kg-dry	397	1	04/17/25 11:03	04/16/25 16:18
Pentachloroethane	EPA 8270C	<397		µg/kg-dry	397	1	04/17/25 11:03	04/16/25 16:18
Pentachloronitrobenzene	EPA 8270C	<795		µg/kg-dry	795	1	04/17/25 11:03	04/16/25 16:18
Pentachlorophenol	EPA 8270C	<1990		µg/kg-dry	1990	1	04/17/25 11:03	04/16/25 16:18
Phenacetin	EPA 8270C	<795		µg/kg-dry	795	1	04/17/25 11:03	04/16/25 16:18
Phenanthrene	EPA 8270C	<241		µg/kg-dry	241	1	04/17/25 11:03	04/16/25 16:18
Phenol	EPA 8270C	<397		µg/kg-dry	397	1	04/17/25 11:03	04/16/25 16:18
Pyrene	EPA 8270C	<241		µg/kg-dry	241	1	04/17/25 11:03	04/16/25 16:18
Pyridine	EPA 8270C	<397		µg/kg-dry	397	1	04/17/25 11:03	04/16/25 16:18
Safrole	EPA 8270C	<397		µg/kg-dry	397	1	04/17/25 11:03	04/16/25 16:18
Surr: 2,4,6-Tribromophenol	*EPA 8270C*	***77.6***		*%REC*	*14.2-136*	*1*	*04/17/25 11:03*	*04/16/25 16:18*
Surr: 2-Fluorobiphenyl	*EPA 8270C*	***81.1***		*%REC*	*30-116*	*1*	*04/17/25 11:03*	*04/16/25 16:18*
Surr: 2-Fluorophenol	*EPA 8270C*	***84.9***		*%REC*	*5.42-113*	*1*	*04/17/25 11:03*	*04/16/25 16:18*
Surr: 4-Terphenyl-d14	*EPA 8270C*	***78.6***		*%REC*	*27.3-138*	*1*	*04/17/25 11:03*	*04/16/25 16:18*

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CLIENT ID: SB-5 (4-6) **Lab ID: CC2502268-005**

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Surr: Nitrobenzene-d5	*EPA 8270C*	***82.8***		*%REC*	*23.7-109*	*1*	*04/17/25 11:03*	*04/16/25 16:18*
Surr: Phenol-d6	*EPA 8270C*	***86.1***		*%REC*	*13.8-108*	*1*	*04/17/25 11:03*	*04/16/25 16:18*
Volatile Organic Compounds by GC-MS								
1,1,1,2-Tetrachloroethane	EPA 8260B	<6.01		µg/kg-dry	6.01	1	04/15/25 13:19	04/15/25 09:00
1,1,1-Trichloroethane	EPA 8260B	<6.01		µg/kg-dry	6.01	1	04/15/25 13:19	04/15/25 09:00
1,1,2,2-Tetrachloroethane	EPA 8260B	<6.01		µg/kg-dry	6.01	1	04/15/25 13:19	04/15/25 09:00
1,1,2-Trichloroethane	EPA 8260B	<6.01		µg/kg-dry	6.01	1	04/15/25 13:19	04/15/25 09:00
1,1-Dichloroethane	EPA 8260B	<6.01		µg/kg-dry	6.01	1	04/15/25 13:19	04/15/25 09:00
1,1-Dichloroethylene	EPA 8260B	<6.01		µg/kg-dry	6.01	1	04/15/25 13:19	04/15/25 09:00
1,1-Dichloropropene	EPA 8260B	<6.01		µg/kg-dry	6.01	1	04/15/25 13:19	04/15/25 09:00
1,2,3-Trichlorobenzene	EPA 8260B	<6.01		µg/kg-dry	6.01	1	04/15/25 13:19	04/15/25 09:00
1,2,3-Trichloropropane	EPA 8260B	<6.01		µg/kg-dry	6.01	1	04/15/25 13:19	04/15/25 09:00
1,2,4-Trichlorobenzene	EPA 8260B	<6.01		µg/kg-dry	6.01	1	04/15/25 13:19	04/15/25 09:00
1,2,4-Trimethylbenzene	EPA 8260B	<6.01		µg/kg-dry	6.01	1	04/15/25 13:19	04/15/25 09:00
1,2-Dibromo-3-chloropropane (DBCP)	EPA 8260B	<6.01		µg/kg-dry	6.01	1	04/15/25 13:19	04/15/25 09:00
1,2-Dibromoethane (EDB, Ethylene dibromide)	EPA 8260B	<0.926		µg/kg-dry	0.926	1	04/15/25 13:19	04/15/25 09:00
1,2-Dichlorobenzene (o-Dichlorobenzene)	EPA 8260B	<6.01		µg/kg-dry	6.01	1	04/15/25 13:19	04/15/25 09:00
1,2-Dichloroethane (Ethylene dichloride)	EPA 8260B	<6.01		µg/kg-dry	6.01	1	04/15/25 13:19	04/15/25 09:00
1,2-Dichloropropane	EPA 8260B	<6.01		µg/kg-dry	6.01	1	04/15/25 13:19	04/15/25 09:00
1,3,5-Trimethylbenzene	EPA 8260B	<6.01		µg/kg-dry	6.01	1	04/15/25 13:19	04/15/25 09:00
1,3-Dichlorobenzene (m-Dichlorobenzene)	EPA 8260B	<6.01		µg/kg-dry	6.01	1	04/15/25 13:19	04/15/25 09:00
1,3-Dichloropropane	EPA 8260B	<6.01		µg/kg-dry	6.01	1	04/15/25 13:19	04/15/25 09:00
1,3-Dichloropropene	EPA 8260B	<12.0		µg/kg-dry	12.0	1	04/15/25 13:19	04/15/25 09:00
1,4-Dichlorobenzene (p-Dichlorobenzene)	EPA 8260B	<6.01		µg/kg-dry	6.01	1	04/15/25 13:19	04/15/25 09:00

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CLIENT ID: SB-5 (4-6) **Lab ID: CC2502268-005**

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
2,2-Dichloropropane	EPA 8260B	<6.01		µg/kg-dry	6.01	1	04/15/25 13:19	04/15/25 09:00
2-Butanone (Methyl ethyl ketone, MEK)	EPA 8260B	<60.1		µg/kg-dry	60.1	1	04/15/25 13:19	04/15/25 09:00
2-Chlorotoluene	EPA 8260B	<6.01		µg/kg-dry	6.01	1	04/15/25 13:19	04/15/25 09:00
2-Hexanone	EPA 8260B	<6.01		µg/kg-dry	6.01	1	04/15/25 13:19	04/15/25 09:00
4-Chlorotoluene	EPA 8260B	<6.01		µg/kg-dry	6.01	1	04/15/25 13:19	04/15/25 09:00
4-Isopropyltoluene (p-Cymene)	EPA 8260B	<6.01		µg/kg-dry	6.01	1	04/15/25 13:19	04/15/25 09:00
4-Methyl-2-pentanone (MIBK)	EPA 8260B	<6.01		µg/kg-dry	6.01	1	04/15/25 13:19	04/15/25 09:00
Acetone	EPA 8260B	<60.1		µg/kg-dry	60.1	1	04/15/25 13:19	04/15/25 09:00
Benzene	EPA 8260B	<6.01		µg/kg-dry	6.01	1	04/15/25 13:19	04/15/25 09:00
Bromobenzene	EPA 8260B	<6.01		µg/kg-dry	6.01	1	04/15/25 13:19	04/15/25 09:00
Bromochloromethane	EPA 8260B	<6.01		µg/kg-dry	6.01	1	04/15/25 13:19	04/15/25 09:00
Bromodichloromethane	EPA 8260B	<6.01		µg/kg-dry	6.01	1	04/15/25 13:19	04/15/25 09:00
Bromoform	EPA 8260B	<6.01		µg/kg-dry	6.01	1	04/15/25 13:19	04/15/25 09:00
Carbon disulfide	EPA 8260B	<6.01		µg/kg-dry	6.01	1	04/15/25 13:19	04/15/25 09:00
Carbon tetrachloride	EPA 8260B	<6.01		µg/kg-dry	6.01	1	04/15/25 13:19	04/15/25 09:00
Chlorobenzene	EPA 8260B	<6.01		µg/kg-dry	6.01	1	04/15/25 13:19	04/15/25 09:00
Chlorodibromomethane	EPA 8260B	<6.01		µg/kg-dry	6.01	1	04/15/25 13:19	04/15/25 09:00
Chloroethane (Ethyl chloride)	EPA 8260B	<6.01		µg/kg-dry	6.01	1	04/15/25 13:19	04/15/25 09:00
Chloroform	EPA 8260B	<6.01		µg/kg-dry	6.01	1	04/15/25 13:19	04/15/25 09:00
cis & trans-1,2-Dichloroethene	EPA 8260B	<12.0		µg/kg-dry	12.0	1	04/15/25 13:19	04/15/25 09:00
cis-1,2-Dichloroethylene	EPA 8260B	<6.01		µg/kg-dry	6.01	1	04/15/25 13:19	04/15/25 09:00
cis-1,3-Dichloropropene	EPA 8260B	<6.01		µg/kg-dry	6.01	1	04/15/25 13:19	04/15/25 09:00
Dibromomethane (Methylene bromide)	EPA 8260B	<6.01		µg/kg-dry	6.01	1	04/15/25 13:19	04/15/25 09:00
Dichlorodifluoromethane (Freon-12)	EPA 8260B	<9.62		µg/kg-dry	9.62	1	04/15/25 13:19	04/15/25 09:00

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Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Ethylbenzene	EPA 8260B	<6.01		µg/kg-dry	6.01	1	04/15/25 13:19	04/15/25 09:00
Hexachlorobutadiene	EPA 8260B	<6.01		µg/kg-dry	6.01	1	04/15/25 13:19	04/15/25 09:00
Isopropylbenzene	EPA 8260B	<6.01		µg/kg-dry	6.01	1	04/15/25 13:19	04/15/25 09:00
m+p-Xylene	EPA 8260B	<12.0		µg/kg-dry	12.0	1	04/15/25 13:19	04/15/25 09:00
Methyl bromide (Bromomethane)	EPA 8260B	<6.01		µg/kg-dry	6.01	1	04/15/25 13:19	04/15/25 09:00
Methyl chloride (Chloromethane)	EPA 8260B	<6.01		µg/kg-dry	6.01	1	04/15/25 13:19	04/15/25 09:00
Methyl tert-butyl ether (MTBE)	EPA 8260B	<6.01		µg/kg-dry	6.01	1	04/15/25 13:19	04/15/25 09:00
Methylene chloride (Dichloromethane)	EPA 8260B	<24.0		µg/kg-dry	24.0	1	04/15/25 13:19	04/15/25 09:00
Naphthalene	EPA 8260B	<6.01		µg/kg-dry	6.01	1	04/15/25 13:19	04/15/25 09:00
n-Butylbenzene	EPA 8260B	<6.01		µg/kg-dry	6.01	1	04/15/25 13:19	04/15/25 09:00
n-Propylbenzene	EPA 8260B	<6.01		µg/kg-dry	6.01	1	04/15/25 13:19	04/15/25 09:00
o-Xylene	EPA 8260B	<6.01		µg/kg-dry	6.01	1	04/15/25 13:19	04/15/25 09:00
sec-Butylbenzene	EPA 8260B	<6.01		µg/kg-dry	6.01	1	04/15/25 13:19	04/15/25 09:00
Styrene	EPA 8260B	<6.01		µg/kg-dry	6.01	1	04/15/25 13:19	04/15/25 09:00
tert-Butylbenzene	EPA 8260B	<6.01		µg/kg-dry	6.01	1	04/15/25 13:19	04/15/25 09:00
Tetrachloroethylene (Perchloroethylene)	EPA 8260B	<6.01		µg/kg-dry	6.01	1	04/15/25 13:19	04/15/25 09:00
Toluene	EPA 8260B	<6.01		µg/kg-dry	6.01	1	04/15/25 13:19	04/15/25 09:00
Total Xylene	EPA 8260B	<18.0		µg/kg-dry	18.0	1	04/15/25 13:19	04/15/25 09:00
trans-1,2-Dichloroethylene	EPA 8260B	<6.01		µg/kg-dry	6.01	1	04/15/25 13:19	04/15/25 09:00
trans-1,3-Dichloropropylene	EPA 8260B	<6.01		µg/kg-dry	6.01	1	04/15/25 13:19	04/15/25 09:00
Trichloroethene (Trichloroethylene)	EPA 8260B	<6.01		µg/kg-dry	6.01	1	04/15/25 13:19	04/15/25 09:00
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	EPA 8260B	<6.01		µg/kg-dry	6.01	1	04/15/25 13:19	04/15/25 09:00
Vinyl chloride (Chloroethene)	EPA 8260B	<6.01		µg/kg-dry	6.01	1	04/15/25 13:19	04/15/25 09:00
Surr: 4-Bromofluorobenzene	*EPA 8260B*	***100***		*%REC*	*78.9-128*	*1*	*04/15/25 13:19*	*04/15/25 09:00*

Analytical Report

Client:	Advanced Geologic Sciences, LLC	**Work Order:**	CC2502268
Project:	Kenton Ohio RMR	**Date Collected:**	04/04/25 11:46
Matrix:	SOIL/SOLID	**Date Received:**	04/07/25 10:30

CLIENT ID: SB-5 (4-6) **Lab ID: CC2502268-005**

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Surr: Dibromofluoromethane	*EPA 8260B*	***96.1***		*%REC*	*79.1-140*	*1*	*04/15/25 13:19*	*04/15/25 09:00*
Surr: Toluene-d8	*EPA 8260B*	***100***		*%REC*	*84.5-124*	*1*	*04/15/25 13:19*	*04/15/25 09:00*

Client:	Advanced Geologic Sciences, LLC	**Work Order:**	CC2502268
Project:	Kenton Ohio RMR	**Date Collected:**	04/04/25 12:10
Matrix:	SOIL/SOLID	**Date Received:**	04/07/25 10:30

CLIENT ID: SB-6 (6-10) **Lab ID: CC2502268-006**

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Diesel Range Organics by GC-FID								
Diesel Range Organics C10-C20	EPA 8015B	**184**		mg/kg-dry	15.8	1	04/21/25 16:47	04/17/25 15:10
Oil Range Organics C20-C34	EPA 8015B	**35.9**		mg/kg-dry	15.8	1	04/21/25 16:47	04/17/25 15:10
Surr: n-Nonane	*EPA 8015B*	***67.5***		*%REC*	*33-88*	*1*	*04/21/25 16:47*	*04/17/25 15:10*
Surr: n-Pentacosane	*EPA 8015B*	***95.1***		*%REC*	*40.9-99.9*	*1*	*04/21/25 16:47*	*04/17/25 15:10*
Gasoline Range Organics by GC-FID								
Gasoline Range Organics C6-C12	EPA 8015A	**43.5**		mg/kg-dry	2.38	1	04/15/25 08:56	04/15/25 08:54
Surr: Cyclooctane	*EPA 8015A*	***146***		*%REC*	*65.2-156*	*1*	*04/15/25 08:56*	*04/15/25 08:54*
General Chemistry Parameters								
Percent Moisture	SM 2540 B-2016	**16.2**		%	0.1	1	04/11/25 15:00	NA
Semivolatile Organic Compounds by GC-MS								
1,2,4,5-Tetrachlorobenzene	EPA 8270C	<393		µg/kg-dry	393	1	04/17/25 12:10	04/16/25 16:18
1,2,4-Trichlorobenzene	EPA 8270C	<393		µg/kg-dry	393	1	04/17/25 12:10	04/16/25 16:18
1,2-Dichlorobenzene (o-Dichlorobenzene)	EPA 8270C	<393		µg/kg-dry	393	1	04/17/25 12:10	04/16/25 16:18
1,3-Dichlorobenzene (m-Dichlorobenzene)	EPA 8270C	<393		µg/kg-dry	393	1	04/17/25 12:10	04/16/25 16:18
1,3-Dinitrobenzene (1,3-DNB)	EPA 8270C	<393		µg/kg-dry	393	1	04/17/25 12:10	04/16/25 16:18
1,4-Dichlorobenzene (p-Dichlorobenzene)	EPA 8270C	<393		µg/kg-dry	393	1	04/17/25 12:10	04/16/25 16:18
1-Methylnaphthalene	EPA 8270C	**2310**		µg/kg-dry	238	1	04/17/25 12:10	04/16/25 16:18
1-Naphthylamine	EPA 8270C	<393		µg/kg-dry	393	1	04/17/25 12:10	04/16/25 16:18
2,2'-Oxybis(1-chloropropane), bis(2-Chloro-1-methylethyl) ether	EPA 8270C	<393		µg/kg-dry	393	1	04/17/25 12:10	04/16/25 16:18
2,3,4,6-Tetrachlorophenol	EPA 8270C	<393		µg/kg-dry	393	1	04/17/25 12:10	04/16/25 16:18
2,4,5-Trichlorophenol	EPA 8270C	<393		µg/kg-dry	393	1	04/17/25 12:10	04/16/25 16:18
2,4,6-Trichlorophenol	EPA 8270C	<393		µg/kg-dry	393	1	04/17/25 12:10	04/16/25 16:18
2,4-Dichlorophenol	EPA 8270C	<393		µg/kg-dry	393	1	04/17/25 12:10	04/16/25 16:18

Client:	Advanced Geologic Sciences, LLC	**Work Order:**	CC2502268
Project:	Kenton Ohio RMR	**Date Collected:**	04/04/25 12:10
Matrix:	SOIL/SOLID	**Date Received:**	04/07/25 10:30

CLIENT ID: SB-6 (6-10) **Lab ID: CC2502268-006**

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
2,4-Dimethylphenol	EPA 8270C	<393		µg/kg-dry	393	1	04/17/25 12:10	04/16/25 16:18
2,4-Dinitrophenol	EPA 8270C	<1970		µg/kg-dry	1970	1	04/17/25 12:10	04/16/25 16:18
2,4-Dinitrotoluene (2,4-DNT)	EPA 8270C	<393		µg/kg-dry	393	1	04/17/25 12:10	04/16/25 16:18
2,6-Dichlorophenol	EPA 8270C	<393		µg/kg-dry	393	1	04/17/25 12:10	04/16/25 16:18
2,6-Dinitrotoluene (2,6-DNT)	EPA 8270C	<393		µg/kg-dry	393	1	04/17/25 12:10	04/16/25 16:18
2-Acetylaminofluorene	EPA 8270C	<393		µg/kg-dry	393	1	04/17/25 12:10	04/16/25 16:18
2-Amino-4-nitrotoluene (5-Nitro-o-toluidine)	EPA 8270C	<393		µg/kg-dry	393	1	04/17/25 12:10	04/16/25 16:18
2-Chloronaphthalene	EPA 8270C	<393		µg/kg-dry	393	1	04/17/25 12:10	04/16/25 16:18
2-Chlorophenol	EPA 8270C	<393		µg/kg-dry	393	1	04/17/25 12:10	04/16/25 16:18
2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	EPA 8270C	<1970		µg/kg-dry	1970	1	04/17/25 12:10	04/16/25 16:18
2-Methylaniline (o-Toluidine)	EPA 8270C	<1970		µg/kg-dry	1970	1	04/17/25 12:10	04/16/25 16:18
2-Methylnaphthalene	EPA 8270C	**650**		µg/kg-dry	238	1	04/17/25 12:10	04/16/25 16:18
2-Methylphenol (o-Cresol)	EPA 8270C	<393		µg/kg-dry	393	1	04/17/25 12:10	04/16/25 16:18
2-Naphthylamine	EPA 8270C	<393		µg/kg-dry	393	1	04/17/25 12:10	04/16/25 16:18
2-Nitroaniline	EPA 8270C	<1970		µg/kg-dry	1970	1	04/17/25 12:10	04/16/25 16:18
2-Nitrophenol	EPA 8270C	<393		µg/kg-dry	393	1	04/17/25 12:10	04/16/25 16:18
2-Picoline (2-Methylpyridine)	EPA 8270C	<393		µg/kg-dry	393	1	04/17/25 12:10	04/16/25 16:18
3&4-Methylphenol	EPA 8270C	<393		µg/kg-dry	393	1	04/17/25 12:10	04/16/25 16:18
3,3'-Dichlorobenzidine	EPA 8270C	<787		µg/kg-dry	787	1	04/17/25 12:10	04/16/25 16:18
3-Methylcholanthrene	EPA 8270C	<393		µg/kg-dry	393	1	04/17/25 12:10	04/16/25 16:18
3-Nitroaniline	EPA 8270C	<1970		µg/kg-dry	1970	1	04/17/25 12:10	04/16/25 16:18
4-Aminobiphenyl	EPA 8270C	<787		µg/kg-dry	787	1	04/17/25 12:10	04/16/25 16:18
4-Bromophenyl phenyl ether (BDE-3)	EPA 8270C	<393		µg/kg-dry	393	1	04/17/25 12:10	04/16/25 16:18

Client:	Advanced Geologic Sciences, LLC	**Work Order:**	CC2502268
Project:	Kenton Ohio RMR	**Date Collected:**	04/04/25 12:10
Matrix:	SOIL/SOLID	**Date Received:**	04/07/25 10:30

CLIENT ID: SB-6 (6-10) **Lab ID: CC2502268-006**

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
4-Chloro-3-methylphenol	EPA 8270C	<787		µg/kg-dry	787	1	04/17/25 12:10	04/16/25 16:18
4-Chloroaniline	EPA 8270C	<787		µg/kg-dry	787	1	04/17/25 12:10	04/16/25 16:18
4-Chlorophenyl phenylether	EPA 8270C	<393		µg/kg-dry	393	1	04/17/25 12:10	04/16/25 16:18
4-Dimethyl aminoazobenzene	EPA 8270C	<393		µg/kg-dry	393	1	04/17/25 12:10	04/16/25 16:18
4-Nitroaniline	EPA 8270C	<787		µg/kg-dry	787	1	04/17/25 12:10	04/16/25 16:18
4-Nitrophenol	EPA 8270C	<1970		µg/kg-dry	1970	1	04/17/25 12:10	04/16/25 16:18
4-Nitroquinoline-1-oxide	EPA 8270C	<1970		µg/kg-dry	1970	1	04/17/25 12:10	04/16/25 16:18
7,12-Dimethylbenz(a) anthracene	EPA 8270C	<393		µg/kg-dry	393	1	04/17/25 12:10	04/16/25 16:18
Acenaphthene	EPA 8270C	<238		µg/kg-dry	238	1	04/17/25 12:10	04/16/25 16:18
Acenaphthylene	EPA 8270C	<238		µg/kg-dry	238	1	04/17/25 12:10	04/16/25 16:18
Acetophenone	EPA 8270C	<393		µg/kg-dry	393	1	04/17/25 12:10	04/16/25 16:18
Aniline	EPA 8270C	<393		µg/kg-dry	393	1	04/17/25 12:10	04/16/25 16:18
Anthracene	EPA 8270C	<238		µg/kg-dry	238	1	04/17/25 12:10	04/16/25 16:18
Azobenzene	EPA 8270C	<393		µg/kg-dry	393	1	04/17/25 12:10	04/16/25 16:18
Benzidine	EPA 8270C	<393		µg/kg-dry	393	1	04/17/25 12:10	04/16/25 16:18
Benzo(a)anthracene	EPA 8270C	<119		µg/kg-dry	119	1	04/17/25 12:10	04/16/25 16:18
Benzo(a)pyrene	EPA 8270C	<119		µg/kg-dry	119	1	04/17/25 12:10	04/16/25 16:18
Benzo(b)fluoranthene	EPA 8270C	<238		µg/kg-dry	238	1	04/17/25 12:10	04/16/25 16:18
Benzo(g,h,i)perylene	EPA 8270C	<238		µg/kg-dry	238	1	04/17/25 12:10	04/16/25 16:18
Benzo(k)fluoranthene	EPA 8270C	<238		µg/kg-dry	238	1	04/17/25 12:10	04/16/25 16:18
Benzyl alcohol	EPA 8270C	<787		µg/kg-dry	787	1	04/17/25 12:10	04/16/25 16:18
bis(2-Chloroethoxy) methane	EPA 8270C	<393		µg/kg-dry	393	1	04/17/25 12:10	04/16/25 16:18
bis(2-Chloroethyl) ether	EPA 8270C	<393		µg/kg-dry	393	1	04/17/25 12:10	04/16/25 16:18
Butyl benzyl phthalate	EPA 8270C	<393		µg/kg-dry	393	1	04/17/25 12:10	04/16/25 16:18

Client:	Advanced Geologic Sciences, LLC	**Work Order:**	CC2502268
Project:	Kenton Ohio RMR	**Date Collected:**	04/04/25 12:10
Matrix:	SOIL/SOLID	**Date Received:**	04/07/25 10:30

CLIENT ID: SB-6 (6-10) **Lab ID: CC2502268-006**

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Carbazole	EPA 8270C	<238		µg/kg-dry	238	1	04/17/25 12:10	04/16/25 16:18
Chrysene	EPA 8270C	<238		µg/kg-dry	238	1	04/17/25 12:10	04/16/25 16:18
Di(2-ethylhexyl) phthalate (bis(2-Ethylhexyl) phthalate, DEHP)	EPA 8270C	<393		µg/kg-dry	393	1	04/17/25 12:10	04/16/25 16:18
Dibenz(a,h) anthracene	EPA 8270C	<119		µg/kg-dry	119	1	04/17/25 12:10	04/16/25 16:18
Dibenzofuran	EPA 8270C	<238		µg/kg-dry	238	1	04/17/25 12:10	04/16/25 16:18
Diethyl phthalate	EPA 8270C	<393		µg/kg-dry	393	1	04/17/25 12:10	04/16/25 16:18
Dimethyl phthalate	EPA 8270C	<393		µg/kg-dry	393	1	04/17/25 12:10	04/16/25 16:18
Di-n-butyl phthalate	EPA 8270C	<393		µg/kg-dry	393	1	04/17/25 12:10	04/16/25 16:18
Di-n-octyl phthalate	EPA 8270C	<393		µg/kg-dry	393	1	04/17/25 12:10	04/16/25 16:18
Dinoseb (2-sec-butyl-4,6-dinitrophenol, DNBP)	EPA 8270C	<393		µg/kg-dry	393	1	04/17/25 12:10	04/16/25 16:18
Diphenylamine	EPA 8270C	<393		µg/kg-dry	393	1	04/17/25 12:10	04/16/25 16:18
Ethyl methanesulfonate	EPA 8270C	<393		µg/kg-dry	393	1	04/17/25 12:10	04/16/25 16:18
Fluoranthene	EPA 8270C	<238		µg/kg-dry	238	1	04/17/25 12:10	04/16/25 16:18
Fluorene	EPA 8270C	<238		µg/kg-dry	238	1	04/17/25 12:10	04/16/25 16:18
Hexachlorobenzene	EPA 8270C	<393		µg/kg-dry	393	1	04/17/25 12:10	04/16/25 16:18
Hexachlorobutadiene	EPA 8270C	<393		µg/kg-dry	393	1	04/17/25 12:10	04/16/25 16:18
Hexachlorocyclopentadiene	EPA 8270C	<393		µg/kg-dry	393	1	04/17/25 12:10	04/16/25 16:18
Hexachloroethane	EPA 8270C	<393		µg/kg-dry	393	1	04/17/25 12:10	04/16/25 16:18
Indeno(1,2,3-cd) pyrene	EPA 8270C	<119		µg/kg-dry	119	1	04/17/25 12:10	04/16/25 16:18
Isophorone	EPA 8270C	<393		µg/kg-dry	393	1	04/17/25 12:10	04/16/25 16:18
Isosafrole	EPA 8270C	<393		µg/kg-dry	393	1	04/17/25 12:10	04/16/25 16:18
Methapyrilene	EPA 8270C	<1970		µg/kg-dry	1970	1	04/17/25 12:10	04/16/25 16:18
Methyl methanesulfonate	EPA 8270C	<393		µg/kg-dry	393	1	04/17/25 12:10	04/16/25 16:18

Client:	Advanced Geologic Sciences, LLC	**Work Order:**	CC2502268
Project:	Kenton Ohio RMR	**Date Collected:**	04/04/25 12:10
Matrix:	SOIL/SOLID	**Date Received:**	04/07/25 10:30

CLIENT ID: SB-6 (6-10) **Lab ID: CC2502268-006**

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Methylphenol, Total	EPA 8270C	<787		µg/kg-dry	787	1	04/17/25 12:10	04/16/25 16:18
Naphthalene	EPA 8270C	**524**		µg/kg-dry	238	1	04/17/25 12:10	04/16/25 16:18
Nitrobenzene	EPA 8270C	<393		µg/kg-dry	393	1	04/17/25 12:10	04/16/25 16:18
n-Nitrosodiethylamine	EPA 8270C	<393		µg/kg-dry	393	1	04/17/25 12:10	04/16/25 16:18
n-Nitrosodimethylamine	EPA 8270C	<393		µg/kg-dry	393	1	04/17/25 12:10	04/16/25 16:18
n-Nitroso-di-n-butylamine	EPA 8270C	<393		µg/kg-dry	393	1	04/17/25 12:10	04/16/25 16:18
n-Nitrosodi-n-propylamine	EPA 8270C	<393		µg/kg-dry	393	1	04/17/25 12:10	04/16/25 16:18
n-Nitrosomethylethylamine	EPA 8270C	<393		µg/kg-dry	393	1	04/17/25 12:10	04/16/25 16:18
n-Nitrosomorpholine	EPA 8270C	<393		µg/kg-dry	393	1	04/17/25 12:10	04/16/25 16:18
n-Nitrosopiperidine	EPA 8270C	<393		µg/kg-dry	393	1	04/17/25 12:10	04/16/25 16:18
n-Nitrosopyrrolidine	EPA 8270C	<393		µg/kg-dry	393	1	04/17/25 12:10	04/16/25 16:18
Pentachlorobenzene	EPA 8270C	<393		µg/kg-dry	393	1	04/17/25 12:10	04/16/25 16:18
Pentachloroethane	EPA 8270C	<393		µg/kg-dry	393	1	04/17/25 12:10	04/16/25 16:18
Pentachloronitrobenzene	EPA 8270C	<787		µg/kg-dry	787	1	04/17/25 12:10	04/16/25 16:18
Pentachlorophenol	EPA 8270C	<1970		µg/kg-dry	1970	1	04/17/25 12:10	04/16/25 16:18
Phenacetin	EPA 8270C	<787		µg/kg-dry	787	1	04/17/25 12:10	04/16/25 16:18
Phenanthrene	EPA 8270C	<238		µg/kg-dry	238	1	04/17/25 12:10	04/16/25 16:18
Phenol	EPA 8270C	<393		µg/kg-dry	393	1	04/17/25 12:10	04/16/25 16:18
Pyrene	EPA 8270C	<238		µg/kg-dry	238	1	04/17/25 12:10	04/16/25 16:18
Pyridine	EPA 8270C	<393		µg/kg-dry	393	1	04/17/25 12:10	04/16/25 16:18
Safrole	EPA 8270C	<393		µg/kg-dry	393	1	04/17/25 12:10	04/16/25 16:18
Surr: 2,4,6-Tribromophenol	*EPA 8270C*	***70.8***		*%REC*	*14.2-136*	*1*	*04/17/25 12:10*	*04/16/25 16:18*
Surr: 2-Fluorobiphenyl	*EPA 8270C*	***75.0***		*%REC*	*30-116*	*1*	*04/17/25 12:10*	*04/16/25 16:18*
Surr: 2-Fluorophenol	*EPA 8270C*	***78.5***		*%REC*	*5.42-113*	*1*	*04/17/25 12:10*	*04/16/25 16:18*
Surr: 4-Terphenyl-d14	*EPA 8270C*	***76.7***		*%REC*	*27.3-138*	*1*	*04/17/25 12:10*	*04/16/25 16:18*

Client:	Advanced Geologic Sciences, LLC	**Work Order:**	CC2502268
Project:	Kenton Ohio RMR	**Date Collected:**	04/04/25 12:10
Matrix:	SOIL/SOLID	**Date Received:**	04/07/25 10:30

CLIENT ID: SB-6 (6-10) **Lab ID: CC2502268-006**

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Surr: Nitrobenzene-d5	*EPA 8270C*	***74.8***		*%REC*	*23.7-109*	*1*	*04/17/25 12:10*	*04/16/25 16:18*
Surr: Phenol-d6	*EPA 8270C*	***77.6***		*%REC*	*13.8-108*	*1*	*04/17/25 12:10*	*04/16/25 16:18*
Volatile Organic Compounds by GC-MS								
1,1,1,2-Tetrachloroethane	EPA 8260B	<298		µg/kg-dry	298	50	04/15/25 17:53	04/15/25 09:00
1,1,1-Trichloroethane	EPA 8260B	<298		µg/kg-dry	298	50	04/15/25 17:53	04/15/25 09:00
1,1,2,2-Tetrachloroethane	EPA 8260B	<298		µg/kg-dry	298	50	04/15/25 17:53	04/15/25 09:00
1,1,2-Trichloroethane	EPA 8260B	<298		µg/kg-dry	298	50	04/15/25 17:53	04/15/25 09:00
1,1-Dichloroethane	EPA 8260B	<298		µg/kg-dry	298	50	04/15/25 17:53	04/15/25 09:00
1,1-Dichloroethylene	EPA 8260B	<298		µg/kg-dry	298	50	04/15/25 17:53	04/15/25 09:00
1,1-Dichloropropene	EPA 8260B	<298		µg/kg-dry	298	50	04/15/25 17:53	04/15/25 09:00
1,2,3-Trichlorobenzene	EPA 8260B	<298		µg/kg-dry	298	50	04/15/25 17:53	04/15/25 09:00
1,2,3-Trichloropropane	EPA 8260B	<298		µg/kg-dry	298	50	04/15/25 17:53	04/15/25 09:00
1,2,4-Trichlorobenzene	EPA 8260B	<298		µg/kg-dry	298	50	04/15/25 17:53	04/15/25 09:00
1,2,4-Trimethylbenzene	EPA 8260B	<298		µg/kg-dry	298	50	04/15/25 17:53	04/15/25 09:00
1,2-Dibromo-3-chloropropane (DBCP)	EPA 8260B	<298		µg/kg-dry	298	50	04/15/25 17:53	04/15/25 09:00
1,2-Dibromoethane (EDB, Ethylene dibromide)	EPA 8260B	<45.9		µg/kg-dry	45.9	50	04/15/25 17:53	04/15/25 09:00
1,2-Dichlorobenzene (o-Dichlorobenzene)	EPA 8260B	<298		µg/kg-dry	298	50	04/15/25 17:53	04/15/25 09:00
1,2-Dichloroethane (Ethylene dichloride)	EPA 8260B	<298		µg/kg-dry	298	50	04/15/25 17:53	04/15/25 09:00
1,2-Dichloropropane	EPA 8260B	<298		µg/kg-dry	298	50	04/15/25 17:53	04/15/25 09:00
1,3,5-Trimethylbenzene	EPA 8260B	<298		µg/kg-dry	298	50	04/15/25 17:53	04/15/25 09:00
1,3-Dichlorobenzene (m-Dichlorobenzene)	EPA 8260B	<298		µg/kg-dry	298	50	04/15/25 17:53	04/15/25 09:00
1,3-Dichloropropane	EPA 8260B	<298		µg/kg-dry	298	50	04/15/25 17:53	04/15/25 09:00
1,3-Dichloropropene	EPA 8260B	<596		µg/kg-dry	596	50	04/15/25 17:53	04/15/25 09:00
1,4-Dichlorobenzene (p-Dichlorobenzene)	EPA 8260B	<298		µg/kg-dry	298	50	04/15/25 17:53	04/15/25 09:00

Client:	Advanced Geologic Sciences, LLC	**Work Order:**	CC2502268
Project:	Kenton Ohio RMR	**Date Collected:**	04/04/25 12:10
Matrix:	SOIL/SOLID	**Date Received:**	04/07/25 10:30

CLIENT ID: SB-6 (6-10) **Lab ID: CC2502268-006**

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
2,2-Dichloropropane	EPA 8260B	<298		µg/kg-dry	298	50	04/15/25 17:53	04/15/25 09:00
2-Butanone (Methyl ethyl ketone, MEK)	EPA 8260B	<2980		µg/kg-dry	2980	50	04/15/25 17:53	04/15/25 09:00
2-Chlorotoluene	EPA 8260B	<298		µg/kg-dry	298	50	04/15/25 17:53	04/15/25 09:00
2-Hexanone	EPA 8260B	<298		µg/kg-dry	298	50	04/15/25 17:53	04/15/25 09:00
4-Chlorotoluene	EPA 8260B	<298		µg/kg-dry	298	50	04/15/25 17:53	04/15/25 09:00
4-Isopropyltoluene (p-Cymene)	EPA 8260B	<298		µg/kg-dry	298	50	04/15/25 17:53	04/15/25 09:00
4-Methyl-2-pentanone (MIBK)	EPA 8260B	<298		µg/kg-dry	298	50	04/15/25 17:53	04/15/25 09:00
Acetone	EPA 8260B	<2980		µg/kg-dry	2980	50	04/15/25 17:53	04/15/25 09:00
Benzene	EPA 8260B	<298		µg/kg-dry	298	50	04/15/25 17:53	04/15/25 09:00
Bromobenzene	EPA 8260B	<298		µg/kg-dry	298	50	04/15/25 17:53	04/15/25 09:00
Bromochloromethane	EPA 8260B	<298		µg/kg-dry	298	50	04/15/25 17:53	04/15/25 09:00
Bromodichloromethane	EPA 8260B	<298		µg/kg-dry	298	50	04/15/25 17:53	04/15/25 09:00
Bromoform	EPA 8260B	<298		µg/kg-dry	298	50	04/15/25 17:53	04/15/25 09:00
Carbon disulfide	EPA 8260B	<298		µg/kg-dry	298	50	04/15/25 17:53	04/15/25 09:00
Carbon tetrachloride	EPA 8260B	<298		µg/kg-dry	298	50	04/15/25 17:53	04/15/25 09:00
Chlorobenzene	EPA 8260B	<298		µg/kg-dry	298	50	04/15/25 17:53	04/15/25 09:00
Chlorodibromomethane	EPA 8260B	<298		µg/kg-dry	298	50	04/15/25 17:53	04/15/25 09:00
Chloroethane (Ethyl chloride)	EPA 8260B	<298		µg/kg-dry	298	50	04/15/25 17:53	04/15/25 09:00
Chloroform	EPA 8260B	<298		µg/kg-dry	298	50	04/15/25 17:53	04/15/25 09:00
cis & trans-1,2-Dichloroethene	EPA 8260B	<596		µg/kg-dry	596	50	04/15/25 17:53	04/15/25 09:00
cis-1,2-Dichloroethylene	EPA 8260B	<298		µg/kg-dry	298	50	04/15/25 17:53	04/15/25 09:00
cis-1,3-Dichloropropene	EPA 8260B	<298		µg/kg-dry	298	50	04/15/25 17:53	04/15/25 09:00
Dibromomethane (Methylene bromide)	EPA 8260B	<298		µg/kg-dry	298	50	04/15/25 17:53	04/15/25 09:00
Dichlorodifluoromethane (Freon-12)	EPA 8260B	<477		µg/kg-dry	477	50	04/15/25 17:53	04/15/25 09:00

Client:	Advanced Geologic Sciences, LLC	**Work Order:**	CC2502268
Project:	Kenton Ohio RMR	**Date Collected:**	04/04/25 12:10
Matrix:	SOIL/SOLID	**Date Received:**	04/07/25 10:30

CLIENT ID: SB-6 (6-10) **Lab ID: CC2502268-006**

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Ethylbenzene	EPA 8260B	<298		µg/kg-dry	298	50	04/15/25 17:53	04/15/25 09:00
Hexachlorobutadiene	EPA 8260B	<298		µg/kg-dry	298	50	04/15/25 17:53	04/15/25 09:00
Isopropylbenzene	EPA 8260B	**734**		µg/kg-dry	298	50	04/15/25 17:53	04/15/25 09:00
m+p-Xylene	EPA 8260B	<596		µg/kg-dry	596	50	04/15/25 17:53	04/15/25 09:00
Methyl bromide (Bromomethane)	EPA 8260B	<298		µg/kg-dry	298	50	04/15/25 17:53	04/15/25 09:00
Methyl chloride (Chloromethane)	EPA 8260B	<298		µg/kg-dry	298	50	04/15/25 17:53	04/15/25 09:00
Methyl tert-butyl ether (MTBE)	EPA 8260B	<298		µg/kg-dry	298	50	04/15/25 17:53	04/15/25 09:00
Methylene chloride (Dichloromethane)	EPA 8260B	<1190		µg/kg-dry	1190	50	04/15/25 17:53	04/15/25 09:00
Naphthalene	EPA 8260B	**509**		µg/kg-dry	298	50	04/15/25 17:53	04/15/25 09:00
n-Butylbenzene	EPA 8260B	**736**		µg/kg-dry	298	50	04/15/25 17:53	04/15/25 09:00
n-Propylbenzene	EPA 8260B	**3100**		µg/kg-dry	298	50	04/15/25 17:53	04/15/25 09:00
o-Xylene	EPA 8260B	<298		µg/kg-dry	298	50	04/15/25 17:53	04/15/25 09:00
sec-Butylbenzene	EPA 8260B	**355**		µg/kg-dry	298	50	04/15/25 17:53	04/15/25 09:00
Styrene	EPA 8260B	<298		µg/kg-dry	298	50	04/15/25 17:53	04/15/25 09:00
tert-Butylbenzene	EPA 8260B	<298		µg/kg-dry	298	50	04/15/25 17:53	04/15/25 09:00
Tetrachloroethylene (Perchloroethylene)	EPA 8260B	<298		µg/kg-dry	298	50	04/15/25 17:53	04/15/25 09:00
Toluene	EPA 8260B	<298		µg/kg-dry	298	50	04/15/25 17:53	04/15/25 09:00
Total Xylene	EPA 8260B	<895		µg/kg-dry	895	50	04/15/25 17:53	04/15/25 09:00
trans-1,2-Dichloroethylene	EPA 8260B	<298		µg/kg-dry	298	50	04/15/25 17:53	04/15/25 09:00
trans-1,3-Dichloropropylene	EPA 8260B	<298		µg/kg-dry	298	50	04/15/25 17:53	04/15/25 09:00
Trichloroethene (Trichloroethylene)	EPA 8260B	<298		µg/kg-dry	298	50	04/15/25 17:53	04/15/25 09:00
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	EPA 8260B	<298		µg/kg-dry	298	50	04/15/25 17:53	04/15/25 09:00
Vinyl chloride (Chloroethene)	EPA 8260B	<298		µg/kg-dry	298	50	04/15/25 17:53	04/15/25 09:00
Surr: 4-Bromofluorobenzene	*EPA 8260B*	***110***		*%REC*	*78.9-128*	*50*	*04/15/25 17:53*	*04/15/25 09:00*

Client:	Advanced Geologic Sciences, LLC	**Work Order:**	CC2502268
Project:	Kenton Ohio RMR	**Date Collected:**	04/04/25 12:10
Matrix:	SOIL/SOLID	**Date Received:**	04/07/25 10:30

CLIENT ID: SB-6 (6-10) **Lab ID: CC2502268-006**

Analyte	Method	Results	Qual	Units	MRL	Dilution Factor	Date Analyzed	Date Extracted
Surr: Dibromofluoromethane	*EPA 8260B*	***95.6***		*%REC*	*79.1-140*	*50*	*04/15/25 17:53*	*04/15/25 09:00*
Surr: Toluene-d8	*EPA 8260B*	***92.3***		*%REC*	*84.5-124*	*50*	*04/15/25 17:53*	*04/15/25 09:00*

QA/QC Report

Client: Advanced Geologic Sciences, LLC
Project: Kenton Ohio RMR
Matrix: SOIL/SOLID
Batch: 1953246

Work Order: CC2502268
Date Collected: NA
Date Received: NA

Diesel Range Organics by GC-FID

MB | **CLIENT ID: Method Blank** | **Lab ID: QC-1953246-001**

Method: EPA 8015B | **Dilution:** 1 | **Analysis Date:** 04/17/25 13:44 | **Prep Date:** 04/16/25 09:04

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Diesel Range Organics C10-C20	<13.3	mg/kg-dry	13.3							
Oil Range Organics C20-C34	<13.3	mg/kg-dry	13.3							
Surr: n-Nonane	***1.92***	*mg/kg-dry*		3.333		57.5	*33-88*			
Surr: n-Pentacosane	***2.48***	*mg/kg-dry*		3.333		74.4	*40.9-99.9*			

LCS | **CLIENT ID: Laboratory Control Sample** | **Lab ID: QC-1953246-002**

Method: EPA 8015B | **Dilution:** 1 | **Analysis Date:** 04/17/25 13:59 | **Prep Date:** 04/16/25 09:04

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Diesel Range Organics C10-C20	31.3	mg/kg-dry	13.3	33.33		94.0	51.7-102			
Oil Range Organics C20-C34	32.1	mg/kg-dry	13.3	33.33		96.4	29.7-127			
Surr: n-Nonane	***2.49***	*mg/kg-dry*		3.333		74.8	*33-88*			
Surr: n-Pentacosane	***3.15***	*mg/kg-dry*		3.333		94.4	*40.9-99.9*			

MS | **CLIENT ID: Batch QC** | **Lab ID: QC-1953246-004**

Method: EPA 8015B | **Dilution:** 1 | **Analysis Date:** 04/17/25 14:13 | **Prep Date:** 04/16/25 09:04

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Diesel Range Organics C10-C20	35.8	mg/kg-dry	15.3	33.308	20.8	53.0	48-109			
Oil Range Organics C20-C34	26.7	mg/kg-dry	15.3	33.308	<15.2	44.0	45-123			S
Surr: n-Nonane	***1.78***	*mg/kg-dry*		3.3308		53.6	*33-88*			
Surr: n-Pentacosane	***2.30***	*mg/kg-dry*		3.3308		69.2	*40.9-99.9*			

MSD | **CLIENT ID: Batch QC** | **Lab ID: QC-1953246-005**

Method: EPA 8015B | **Dilution:** 1 | **Analysis Date:** 04/17/25 14:28 | **Prep Date:** 04/16/25 09:04

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Diesel Range Organics C10-C20	50.1	mg/kg-dry	15.3	33.33	20.8	95.9	48-109	33.3	20	R
Oil Range Organics C20-C34	32.5	mg/kg-dry	15.3	33.33	<15.2	61.3	45-123	19.5	20	
Surr: n-Nonane	***1.60***	*mg/kg-dry*		3.333		48.1	*33-88*	10.7	30	
Surr: n-Pentacosane	***2.41***	*mg/kg-dry*		3.333		72.3	*40.9-99.9*	4.41	30	

The following samples were analyzed in this batch: CC2502268-001

Client:	Advanced Geologic Sciences, LLC	**Work Order:**	CC2502268
Project:	Kenton Ohio RMR	**Date Collected:**	NA
Matrix:	SOIL/SOLID	**Date Received:**	NA
Batch:	1955207		

Diesel Range Organics by GC-FID

MB | **CLIENT ID: Method Blank** | **Lab ID: QC-1955207-001**

Method: EPA 8015B | **Dilution:** 1 | **Analysis Date:** 04/21/25 16:32 | **Prep Date:** 04/17/25 15:11

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Diesel Range Organics C10-C20	<13.3	mg/kg-dry	13.3							
Oil Range Organics C20-C34	<13.3	mg/kg-dry	13.3							
Surr: n-Nonane	***2.62***	*mg/kg-dry*		3.333		78.6	*33-88*			
Surr: n-Pentacosane	***2.81***	*mg/kg-dry*		3.333		84.3	*40.9-99.9*			

LCS | **CLIENT ID: Laboratory Control Sample** | **Lab ID: QC-1955207-002**

Method: EPA 8015B | **Dilution:** 1 | **Analysis Date:** 04/21/25 13:40 | **Prep Date:** 04/17/25 15:11

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Diesel Range Organics C10-C20	24.9	mg/kg-dry	13.3	33.33		74.8	51.7-102			
Oil Range Organics C20-C34	23.5	mg/kg-dry	13.3	33.33		70.5	29.7-127			
Surr: n-Nonane	***2.42***	*mg/kg-dry*		3.333		72.7	*33-88*			
Surr: n-Pentacosane	***2.53***	*mg/kg-dry*		3.333		75.9	*40.9-99.9*			

MS | **CLIENT ID: SB-2 (6-8)** | **Lab ID: QC-1955207-004**

Method: EPA 8015B | **Dilution:** 1 | **Analysis Date:** 04/21/25 13:55 | **Prep Date:** 04/17/25 15:11

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Diesel Range Organics C10-C20	27.4	mg/kg-dry	16.2	33.308	<16.2	73.5	48-109			
Oil Range Organics C20-C34	32.7	mg/kg-dry	16.2	33.308	<16.2	76.6	45-123			
Surr: n-Nonane	***2.32***	*mg/kg-dry*		3.3308		69.6	*33-88*			
Surr: n-Pentacosane	***2.74***	*mg/kg-dry*		3.3308		82.4	*40.9-99.9*			

MSD | **CLIENT ID: SB-2 (6-8)** | **Lab ID: QC-1955207-005**

Method: EPA 8015B | **Dilution:** 1 | **Analysis Date:** 04/21/25 14:10 | **Prep Date:** 04/17/25 15:11

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Diesel Range Organics C10-C20	25.5	mg/kg-dry	16.2	33.33	<16.2	67.7	48-109	7.28	20	
Oil Range Organics C20-C34	29.6	mg/kg-dry	16.2	33.33	<16.2	67.2	45-123	10.0	20	
Surr: n-Nonane	***2.65***	*mg/kg-dry*		3.333		79.5	*33-88*	13.4	30	
Surr: n-Pentacosane	***2.49***	*mg/kg-dry*		3.333		74.6	*40.9-99.9*	9.88	30	

The following samples were analyzed in this batch: CC2502268-002, CC2502268-003, CC2502268-004, CC2502268-005, CC2502268-006

QA/QC Report

Client: Advanced Geologic Sciences, LLC
Project: Kenton Ohio RMR
Matrix: SOIL/SOLID
Batch: 1949984

Work Order: CC2502268
Date Collected: NA
Date Received: NA

Gasoline Range Organics by GC-FID

MB | **CLIENT ID: Method Blank** | **Lab ID: QC-1949984-001**

Method: EPA 8015A | **Dilution:** 1 | **Analysis Date:** 04/14/25 09:31 | **Prep Date:** 04/14/25 09:28

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Gasoline Range Organics C6-C12	<2.00	mg/kg-dry	2.00							
Surr: Cyclooctane	***461***	*mg/kg-dry*		500		92.3	*65.2-156*			

LCS | **CLIENT ID: Laboratory Control Sample** | **Lab ID: QC-1949984-002**

Method: EPA 8015A | **Dilution:** 1 | **Analysis Date:** 04/14/25 09:31 | **Prep Date:** 04/14/25 09:28

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Gasoline Range Organics C6-C12	20.5	mg/kg-dry	2.00	20		102	62.7-136			
Surr: Cyclooctane	***526***	*mg/kg-dry*		500		105	*65.2-156*			

MS | **CLIENT ID: Batch QC** | **Lab ID: QC-1949984-005**

Method: EPA 8015A | **Dilution:** 1 | **Analysis Date:** 04/14/25 09:31 | **Prep Date:** 04/14/25 09:28

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Gasoline Range Organics C6-C12	19.0	mg/kg-dry	2.40	20	<2.40	93.8	42.3-144			
Surr: Cyclooctane	***491***	*mg/kg-dry*		500		98.3	*65.2-156*			

MSD | **CLIENT ID: Batch QC** | **Lab ID: QC-1949984-006**

Method: EPA 8015A | **Dilution:** 1 | **Analysis Date:** 04/14/25 09:31 | **Prep Date:** 04/14/25 09:28

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Gasoline Range Organics C6-C12	19.4	mg/kg-dry	2.40	20	<2.40	95.5	42.3-144	1.81	20	
Surr: Cyclooctane	***516***	*mg/kg-dry*		500		103	*65.2-156*	4.97	30	

The following samples were analyzed in this batch: CC2502268-001

QA/QC Report

Client: Advanced Geologic Sciences, LLC
Project: Kenton Ohio RMR
Matrix: SOIL/SOLID
Batch: 1951487

Work Order: CC2502268
Date Collected: NA
Date Received: NA

Gasoline Range Organics by GC-FID

MB | **CLIENT ID: Method Blank** | **Lab ID: QC-1951487-001**

Method: EPA 8015A | **Dilution:** 1 | **Analysis Date:** 04/15/25 08:57 | **Prep Date:** 04/15/25 08:55

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Gasoline Range Organics C6-C12	<2.00	mg/kg-dry	2.00							
Surr: Cyclooctane	***460***	*mg/kg-dry*		500		92.0	*65.2-156*			

LCS | **CLIENT ID: Laboratory Control Sample** | **Lab ID: QC-1951487-002**

Method: EPA 8015A | **Dilution:** 1 | **Analysis Date:** 04/15/25 08:57 | **Prep Date:** 04/15/25 08:55

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Gasoline Range Organics C6-C12	19.8	mg/kg-dry	2.00	20		99.0	62.7-136			
Surr: Cyclooctane	***518***	*mg/kg-dry*		500		104	*65.2-156*			

MS | **CLIENT ID: SB-2 (6-8)** | **Lab ID: QC-1951487-005**

Method: EPA 8015A | **Dilution:** 1 | **Analysis Date:** 04/15/25 08:57 | **Prep Date:** 04/15/25 08:55

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Gasoline Range Organics C6-C12	17.9	mg/kg-dry	2.43	20	<2.43	87.6	42.3-144			
Surr: Cyclooctane	***490***	*mg/kg-dry*		500		98.1	*65.2-156*			

MSD | **CLIENT ID: SB-2 (6-8)** | **Lab ID: QC-1951487-006**

Method: EPA 8015A | **Dilution:** 1 | **Analysis Date:** 04/15/25 08:57 | **Prep Date:** 04/15/25 08:55

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Gasoline Range Organics C6-C12	17.7	mg/kg-dry	2.43	20	<2.43	86.8	42.3-144	0.887	20	
Surr: Cyclooctane	***485***	*mg/kg-dry*		500		97.0	*65.2-156*	1.14	30	

The following samples were analyzed in this batch: CC2502268-002, CC2502268-003, CC2502268-004, CC2502268-005, CC2502268-006

Client:	Advanced Geologic Sciences, LLC	**Work Order:**	CC2502268
Project:	Kenton Ohio RMR	**Date Collected:**	NA
Matrix:	SOIL/SOLID	**Date Received:**	NA
Batch:	1951575		

Semivolatile Organic Compounds by GC-MS

MB | **CLIENT ID: Method Blank** | **Lab ID: QC-1951575-001**

Method: EPA 8270C | **Dilution:** 1 | **Analysis Date:** 04/16/25 09:40 | **Prep Date:** 04/15/25 11:22

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
1,2,4,5-Tetrachlorobenzene	<330	µg/kg-dry	330							
1,2,4-Trichlorobenzene	<330	µg/kg-dry	330							
1,2-Dichlorobenzene (o-Dichlorobenzene)	<330	µg/kg-dry	330							
1,3-Dichlorobenzene (m-Dichlorobenzene)	<330	µg/kg-dry	330							
1,3-Dinitrobenzene (1,3-DNB)	<330	µg/kg-dry	330							
1,4-Dichlorobenzene (p-Dichlorobenzene)	<330	µg/kg-dry	330							
1-Methylnaphthalene	<200	µg/kg-dry	200							
1-Naphthylamine	<330	µg/kg-dry	330							
2,2'-Oxybis(1-chloropropane), bis(2-Chloro-1-methylethyl)ether	<330	µg/kg-dry	330							
2,3,4,6-Tetrachlorophenol	<330	µg/kg-dry	330							
2,4,5-Trichlorophenol	<330	µg/kg-dry	330							
2,4,6-Trichlorophenol	<330	µg/kg-dry	330							
2,4-Dichlorophenol	<330	µg/kg-dry	330							
2,4-Dimethylphenol	<330	µg/kg-dry	330							
2,4-Dinitrophenol	<1650	µg/kg-dry	1650							
2,4-Dinitrotoluene (2,4-DNT)	<330	µg/kg-dry	330							
2,6-Dichlorophenol	<330	µg/kg-dry	330							
2,6-Dinitrotoluene (2,6-DNT)	<330	µg/kg-dry	330							
2-Acetylaminofluorene	<330	µg/kg-dry	330							
2-Amino-4-nitrotoluene (5-Nitro-o-toluidine)	<330	µg/kg-dry	330							
2-Chloronaphthalene	<330	µg/kg-dry	330							
2-Chlorophenol	<330	µg/kg-dry	330							
2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	<1650	µg/kg-dry	1650							
2-Methylaniline (o-Toluidine)	<1650	µg/kg-dry	1650							
2-Methylnaphthalene	<200	µg/kg-dry	200							
2-Methylphenol (o-Cresol)	<330	µg/kg-dry	330							
2-Naphthylamine	<330	µg/kg-dry	330							
2-Nitroaniline	<1650	µg/kg-dry	1650							
2-Nitrophenol	<330	µg/kg-dry	330							
2-Picoline (2-Methylpyridine)	<330	µg/kg-dry	330							
3&4-Methylphenol	<330	µg/kg-dry	330							
3,3'-Dichlorobenzidine	<660	µg/kg-dry	660							
3-Methylcholanthrene	<330	µg/kg-dry	330							
3-Nitroaniline	<1650	µg/kg-dry	1650							
4-Aminobiphenyl	<660	µg/kg-dry	660							
4-Bromophenyl phenyl ether (BDE-3)	<330	µg/kg-dry	330							
4-Chloro-3-methylphenol	<660	µg/kg-dry	660							
4-Chloroaniline	<660	µg/kg-dry	660							
4-Chlorophenyl phenylether	<330	µg/kg-dry	330							

Client:	Advanced Geologic Sciences, LLC	**Work Order:**	CC2502268
Project:	Kenton Ohio RMR	**Date Collected:**	NA
Matrix:	SOIL/SOLID	**Date Received:**	NA
Batch:	1951575		

MB	**CLIENT ID: Method Blank**	**Lab ID: QC-1951575-001**
Method: EPA 8270C	**Dilution:** 1	**Analysis Date:** 04/16/25 09:40
		Prep Date: 04/15/25 11:22

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
4-Dimethyl aminoazobenzene	<330	µg/kg-dry	330							
4-Nitroaniline	<660	µg/kg-dry	660							
4-Nitrophenol	<1650	µg/kg-dry	1650							
4-Nitroquinoline-1-oxide	<1650	µg/kg-dry	1650							
7,12-Dimethylbenz(a)anthracene	<330	µg/kg-dry	330							
Acenaphthene	<200	µg/kg-dry	200							
Acenaphthylene	<200	µg/kg-dry	200							
Acetophenone	<330	µg/kg-dry	330							
Aniline	<330	µg/kg-dry	330							
Anthracene	<200	µg/kg-dry	200							
Azobenzene	<330	µg/kg-dry	330							
Benzidine	<330	µg/kg-dry	330							
Benzo(a)anthracene	<100	µg/kg-dry	100							
Benzo(a)pyrene	<100	µg/kg-dry	100							
Benzo(b)fluoranthene	<200	µg/kg-dry	200							
Benzo(g,h,i)perylene	<200	µg/kg-dry	200							
Benzo(k)fluoranthene	<200	µg/kg-dry	200							
Benzyl alcohol	<660	µg/kg-dry	660							
bis(2-Chloroethoxy)methane	<330	µg/kg-dry	330							
bis(2-Chloroethyl) ether	<330	µg/kg-dry	330							
Butyl benzyl phthalate	<330	µg/kg-dry	330							
Carbazole	<200	µg/kg-dry	200							
Chrysene	<200	µg/kg-dry	200							
Di(2-ethylhexyl) phthalate (bis(2-Ethylhexyl)phthalate, DEHP)	<330	µg/kg-dry	330							
Dibenz(a,h) anthracene	<100	µg/kg-dry	100							
Dibenzofuran	<200	µg/kg-dry	200							
Diethyl phthalate	<330	µg/kg-dry	330							
Dimethyl phthalate	<330	µg/kg-dry	330							
Di-n-butyl phthalate	<330	µg/kg-dry	330							
Di-n-octyl phthalate	<330	µg/kg-dry	330							
Dinoseb (2-sec-butyl-4,6-dinitrophenol, DNBP)	<330	µg/kg-dry	330							
Diphenylamine	<330	µg/kg-dry	330							
Ethyl methanesulfonate	<330	µg/kg-dry	330							
Fluoranthene	<200	µg/kg-dry	200							
Fluorene	<200	µg/kg-dry	200							
Hexachlorobenzene	<330	µg/kg-dry	330							
Hexachlorobutadiene	<330	µg/kg-dry	330							
Hexachlorocyclopentadiene	<330	µg/kg-dry	330							
Hexachloroethane	<330	µg/kg-dry	330							
Indeno(1,2,3-cd) pyrene	<100	µg/kg-dry	100							
Isophorone	<330	µg/kg-dry	330							
Isosafrole	<330	µg/kg-dry	330							
Methapyrilene	<1650	µg/kg-dry	1650							
Methyl methanesulfonate	<330	µg/kg-dry	330							

Client:	Advanced Geologic Sciences, LLC	**Work Order:**	CC2502268
Project:	Kenton Ohio RMR	**Date Collected:**	NA
Matrix:	SOIL/SOLID	**Date Received:**	NA
Batch:	1951575		

MB | **CLIENT ID: Method Blank** | **Lab ID: QC-1951575-001**

Method: EPA 8270C | **Dilution:** 1 | **Analysis Date:** 04/16/25 09:40 | **Prep Date:** 04/15/25 11:22

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Methylphenol, Total	<660	µg/kg-dry	660							
Naphthalene	<200	µg/kg-dry	200							
Nitrobenzene	<330	µg/kg-dry	330							
n-Nitrosodiethylamine	<330	µg/kg-dry	330							
n-Nitrosodimethylamine	<330	µg/kg-dry	330							
n-Nitroso-di-n-butylamine	<330	µg/kg-dry	330							
n-Nitrosodi-n-propylamine	<330	µg/kg-dry	330							
n-Nitrosomethylethylamine	<330	µg/kg-dry	330							
n-Nitrosomorpholine	<330	µg/kg-dry	330							
n-Nitrosopiperidine	<330	µg/kg-dry	330							
n-Nitrosopyrrolidine	<330	µg/kg-dry	330							
Pentachlorobenzene	<330	µg/kg-dry	330							
Pentachloroethane	<330	µg/kg-dry	330							
Pentachloronitrobenzene	<660	µg/kg-dry	660							
Pentachlorophenol	<1650	µg/kg-dry	1650							
Phenacetin	<660	µg/kg-dry	660							
Phenanthrene	<200	µg/kg-dry	200							
Phenol	<330	µg/kg-dry	330							
Pyrene	<200	µg/kg-dry	200							
Pyridine	<330	µg/kg-dry	330							
Safrole	<330	µg/kg-dry	330							
Surr: 2,4,6-Tribromophenol	***5560***	*µg/kg-dry*		6660		83.5	*14.2-136*			
Surr: 2-Fluorobiphenyl	***2580***	*µg/kg-dry*		3330		77.3	*30-116*			
Surr: 2-Fluorophenol	***5400***	*µg/kg-dry*		6660		81.1	*5.42-113*			
Surr: 4-Terphenyl-d14	***2950***	*µg/kg-dry*		3330		88.5	*27.3-138*			
Surr: Nitrobenzene-d5	***2700***	*µg/kg-dry*		3330		81.2	*23.7-109*			
Surr: Phenol-d6	***5420***	*µg/kg-dry*		6660		81.3	*13.8-108*			

LCS | **CLIENT ID: Laboratory Control Sample** | **Lab ID: QC-1951575-002**

Method: EPA 8270C | **Dilution:** 1 | **Analysis Date:** 04/16/25 09:54 | **Prep Date:** 04/15/25 11:22

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
1,2,4-Trichlorobenzene	2530	µg/kg-dry	330	3330		76.0	39-104			
1,4-Dichlorobenzene (p-Dichlorobenzene)	2310	µg/kg-dry	330	3330		69.4	38.7-95.1			
2,4-Dinitrotoluene (2,4-DNT)	2440	µg/kg-dry	330	3330		73.3	52.4-99.5			
2-Chlorophenol	2350	µg/kg-dry	330	3330		70.5	34.7-116			
4-Chloro-3-methylphenol	2500	µg/kg-dry	660	3330		75.2	32.1-109			
4-Nitrophenol	2680	µg/kg-dry	1650	3330		80.5	36.2-146			
Acenaphthene	2500	µg/kg-dry	200	3330		75.1	52-119			
Acenaphthylene	2650	µg/kg-dry	200	3330		79.5	46-118			
Anthracene	2680	µg/kg-dry	200	3330		80.6	56-109			
Benzo(a)anthracene	2720	µg/kg-dry	100	3330		81.8	48-121			
Benzo(a)pyrene	2770	µg/kg-dry	100	3330		83.3	40.1-114			

Client: Advanced Geologic Sciences, LLC
Project: Kenton Ohio RMR
Matrix: SOIL/SOLID
Batch: 1951575

Work Order: CC2502268
Date Collected: NA
Date Received: NA

LCS | **CLIENT ID: Laboratory Control Sample** | **Lab ID: QC-1951575-002**

Method: EPA 8270C | **Dilution:** 1 | **Analysis Date:** 04/16/25 09:54 | **Prep Date:** 04/15/25 11:22

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Benzo(b)fluoranthene	2580	µg/kg-dry	200	3330		77.6	44-115			
Benzo(g,h,i)perylene	2850	µg/kg-dry	200	3330		85.6	47.9-113			
Benzo(k)fluoranthene	2850	µg/kg-dry	200	3330		85.7	39.5-116			
Carbazole	2770	µg/kg-dry	200	3330		83.1	43.3-146			
Chrysene	2740	µg/kg-dry	200	3330		82.2	49.2-115			
Dibenz(a,h) anthracene	2870	µg/kg-dry	100	3330		86.1	41.7-123			
Fluoranthene	2710	µg/kg-dry	200	3330		81.4	52.7-118			
Fluorene	2540	µg/kg-dry	200	3330		76.2	56.3-106			
Indeno(1,2,3-cd) pyrene	2890	µg/kg-dry	100	3330		86.9	41.1-124			
n-Nitrosodi-n-propylamine	2410	µg/kg-dry	330	3330		72.4	25.3-127			
Pentachlorophenol	2800	µg/kg-dry	1650	3330		84.0	22.1-105			
Phenanthrene	2640	µg/kg-dry	200	3330		79.3	52.8-114			
Phenol	2360	µg/kg-dry	330	3330		71.0	36.9-97.8			
Pyrene	2610	µg/kg-dry	200	3330		78.4	50.7-109			
Surr: 2,4,6-Tribromophenol	***5410***	*µg/kg-dry*		6660		81.2	*14.2-136*			
Surr: 2-Fluorobiphenyl	***2530***	*µg/kg-dry*		3330		75.9	*30-116*			
Surr: 2-Fluorophenol	***4690***	*µg/kg-dry*		6660		70.4	*5.42-113*			
Surr: 4-Terphenyl-d14	***2720***	*µg/kg-dry*		3330		81.6	*27.3-138*			
Surr: Nitrobenzene-d5	***2360***	*µg/kg-dry*		3330		71.0	*23.7-109*			
Surr: Phenol-d6	***4730***	*µg/kg-dry*		6660		71.1	*13.8-108*			

MS | **CLIENT ID: Batch QC** | **Lab ID: QC-1951575-004**

Method: EPA 8270C | **Dilution:** 1 | **Analysis Date:** 04/16/25 10:09 | **Prep Date:** 04/15/25 11:22

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
1,2,4-Trichlorobenzene	2050	µg/kg-dry	361	3334.4	<361	61.4	39-91.8			
1,4-Dichlorobenzene (p-Dichlorobenzene)	1950	µg/kg-dry	361	3334.4	<361	58.4	32.9-90			
2,4-Dinitrotoluene (2,4-DNT)	2310	µg/kg-dry	361	3334.4	<360	68.2	29.7-121			
2-Chlorophenol	1950	µg/kg-dry	361	3334.4	<361	58.6	33.3-109			
4-Chloro-3-methylphenol	2080	µg/kg-dry	723	3334.4	<723	62.3	35.8-116			
4-Nitrophenol	2340	µg/kg-dry	1810	3334.4	<1800	68.8	34.1-120			
Acenaphthene	2100	µg/kg-dry	219	3334.4	<219	63.1	44-108			
Acenaphthylene	2240	µg/kg-dry	219	3334.4	<219	67.2	43.6-110			
Anthracene	2480	µg/kg-dry	219	3334.4	<219	74.4	35.8-104			
Benzo(a)anthracene	2670	µg/kg-dry	110	3334.4	<110	79.8	47-114			
Benzo(a)pyrene	2740	µg/kg-dry	110	3334.4	<110	82.3	43.8-115			
Benzo(b)fluoranthene	2550	µg/kg-dry	219	3334.4	<219	76.3	40-106			
Benzo(g,h,i)perylene	2780	µg/kg-dry	219	3334.4	<219	83.4	38.2-110			
Benzo(k)fluoranthene	2800	µg/kg-dry	219	3334.4	<219	83.9	48.6-107			
Carbazole	2590	µg/kg-dry	219	3334.4	<219	77.7	28.5-114			
Chrysene	2720	µg/kg-dry	219	3334.4	<218	81.2	44.3-97.5			
Dibenz(a,h) anthracene	2800	µg/kg-dry	110	3334.4	<110	84.0	46-116			
Fluoranthene	2580	µg/kg-dry	219	3334.4	<219	77.0	40.2-129			

Client: Advanced Geologic Sciences, LLC
Project: Kenton Ohio RMR
Matrix: SOIL/SOLID
Batch: 1951575

Work Order: CC2502268
Date Collected: NA
Date Received: NA

MS | **CLIENT ID: Batch QC** | **Lab ID: QC-1951575-004**

Method: EPA 8270C | **Dilution:** 1 | **Analysis Date:** 04/16/25 10:09 | **Prep Date:** 04/15/25 11:22

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Fluorene	2260	µg/kg-dry	219	3334.4	<218	66.6	42.8-106			
Indeno(1,2,3-cd) pyrene	2800	µg/kg-dry	110	3334.4	<110	84.1	33-115			
Naphthalene	2060	µg/kg-dry	219	3334.4	<219	61.7	18.2-126			
n-Nitrosodi-n-propylamine	2010	µg/kg-dry	361	3334.4	<361	60.4	3.32-83.9			
Pentachlorophenol	2230	µg/kg-dry	1810	3334.4	<1810	66.9	9.31-107			
Phenanthrene	2490	µg/kg-dry	219	3334.4	<218	74.4	31.2-127			
Phenol	1980	µg/kg-dry	361	3334.4	<361	59.3	25.9-90.3			
Pyrene	2480	µg/kg-dry	219	3334.4	<219	73.9	33.7-129			
Surr: 2,4,6-Tribromophenol	***4780***	*µg/kg-dry*		6668.9		71.7	*14.2-136*			
Surr: 2-Fluorobiphenyl	***2060***	*µg/kg-dry*		3334.4		61.7	*30-116*			
Surr: 2-Fluorophenol	***3860***	*µg/kg-dry*		6668.9		57.9	*5.42-113*			
Surr: 4-Terphenyl-d14	***2510***	*µg/kg-dry*		3334.4		75.4	*27.3-138*			
Surr: Nitrobenzene-d5	***2010***	*µg/kg-dry*		3334.4		60.3	*23.7-109*			
Surr: Phenol-d6	***3960***	*µg/kg-dry*		6668.9		59.3	*13.8-108*			

MSD | **CLIENT ID: Batch QC** | **Lab ID: QC-1951575-005**

Method: EPA 8270C | **Dilution:** 1 | **Analysis Date:** 04/16/25 10:39 | **Prep Date:** 04/15/25 11:22

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
1,2,4-Trichlorobenzene	2250	µg/kg-dry	361	3330	<361	67.5	39-91.8	9.24	20	
1,4-Dichlorobenzene (p-Dichlorobenzene)	2150	µg/kg-dry	361	3330	<361	64.4	32.9-90	9.58	20	
2,4-Dinitrotoluene (2,4-DNT)	2380	µg/kg-dry	361	3330	<360	70.2	29.7-121	2.75	20	
2-Chlorophenol	2150	µg/kg-dry	361	3330	<361	64.6	33.3-109	9.60	20	
4-Chloro-3-methylphenol	2170	µg/kg-dry	722	3330	<722	65.1	35.8-116	4.26	20	
4-Nitrophenol	2540	µg/kg-dry	1810	3330	<1800	74.9	34.1-120	8.30	20	
Acenaphthene	2220	µg/kg-dry	219	3330	<219	66.7	44-108	5.41	20	
Acenaphthylene	2350	µg/kg-dry	219	3330	<219	70.7	43.6-110	4.91	20	
Anthracene	2500	µg/kg-dry	219	3330	<219	75.1	35.8-104	0.782	20	
Benzo(a)anthracene	2530	µg/kg-dry	109	3330	<109	75.7	47-114	5.40	20	
Benzo(a)pyrene	2620	µg/kg-dry	109	3330	<109	78.7	43.8-115	4.62	20	
Benzo(b)fluoranthene	2450	µg/kg-dry	219	3330	<219	73.4	40-106	4.00	20	
Benzo(g,h,i)perylene	2650	µg/kg-dry	219	3330	<219	79.4	38.2-110	4.97	20	
Benzo(k)fluoranthene	2670	µg/kg-dry	219	3330	<219	80.2	48.6-107	4.57	20	
Carbazole	2620	µg/kg-dry	219	3330	<219	78.7	28.5-114	1.19	20	
Chrysene	2580	µg/kg-dry	219	3330	<218	77.1	44.3-97.5	5.25	20	
Dibenz(a,h) anthracene	2670	µg/kg-dry	109	3330	<109	80.1	46-116	4.89	20	
Fluoranthene	2620	µg/kg-dry	219	3330	<219	78.4	40.2-129	1.71	20	
Fluorene	2350	µg/kg-dry	219	3330	<218	69.6	42.8-106	4.25	20	
Indeno(1,2,3-cd) pyrene	2690	µg/kg-dry	109	3330	<109	80.7	33-115	4.17	20	
Naphthalene	2260	µg/kg-dry	219	3330	<219	67.7	18.2-126	9.13	20	
n-Nitrosodi-n-propylamine	2180	µg/kg-dry	361	3330	<361	65.6	3.32-83.9	8.10	20	
Pentachlorophenol	2290	µg/kg-dry	1810	3330	<1810	68.7	9.31-107	2.39	20	
Phenanthrene	2500	µg/kg-dry	219	3330	<218	74.7	31.2-127	0.241	20	

QA/QC Report

Client: Advanced Geologic Sciences, LLC
Project: Kenton Ohio RMR
Matrix: SOIL/SOLID
Batch: 1951575

Work Order: CC2502268
Date Collected: NA
Date Received: NA

MSD | **CLIENT ID: Batch QC** | **Lab ID: QC-1951575-005**

Method: EPA 8270C
Dilution: 1
Analysis Date: 04/16/25 10:39
Prep Date: 04/15/25 11:22

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Phenol	2190	µg/kg-dry	361	3330	<361	65.6	25.9-90.3	9.92	20	
Pyrene	2490	µg/kg-dry	219	3330	<219	74.5	33.7-129	0.688	20	
Surr: 2,4,6-Tribromophenol	***5030***	*µg/kg-dry*		6660		75.5	*14.2-136*	5.09	30	
Surr: 2-Fluorobiphenyl	***2200***	*µg/kg-dry*		3330		66.1	*30-116*	6.70	30	
Surr: 2-Fluorophenol	***4270***	*µg/kg-dry*		6660		64.2	*5.42-113*	10.0	30	
Surr: 4-Terphenyl-d14	***2600***	*µg/kg-dry*		3330		77.9	*27.3-138*	3.15	30	
Surr: Nitrobenzene-d5	***2160***	*µg/kg-dry*		3330		64.8	*23.7-109*	6.99	30	
Surr: Phenol-d6	***4340***	*µg/kg-dry*		6660		65.1	*13.8-108*	9.22	30	

The following samples were analyzed in this batch: CC2502268-001, CC2502268-002, CC2502268-003, CC2502268-004

Client:	Advanced Geologic Sciences, LLC	**Work Order:**	CC2502268
Project:	Kenton Ohio RMR	**Date Collected:**	NA
Matrix:	SOIL/SOLID	**Date Received:**	NA
Batch:	1953779		

Semivolatile Organic Compounds by GC-MS

MB | **CLIENT ID: Method Blank** | **Lab ID: QC-1953779-001**

Method: EPA 8270C | **Dilution:** 1 | **Analysis Date:** 04/17/25 09:56 | **Prep Date:** 04/16/25 16:19

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
1,2,4,5-Tetrachlorobenzene	<330	µg/kg-dry	330							
1,2,4-Trichlorobenzene	<330	µg/kg-dry	330							
1,2-Dichlorobenzene (o-Dichlorobenzene)	<330	µg/kg-dry	330							
1,3-Dichlorobenzene (m-Dichlorobenzene)	<330	µg/kg-dry	330							
1,3-Dinitrobenzene (1,3-DNB)	<330	µg/kg-dry	330							
1,4-Dichlorobenzene (p-Dichlorobenzene)	<330	µg/kg-dry	330							
1-Methylnaphthalene	<200	µg/kg-dry	200							
1-Naphthylamine	<330	µg/kg-dry	330							
2,2'-Oxybis(1-chloropropane), bis(2-Chloro-1-methylethyl)ether	<330	µg/kg-dry	330							
2,3,4,6-Tetrachlorophenol	<330	µg/kg-dry	330							
2,4,5-Trichlorophenol	<330	µg/kg-dry	330							
2,4,6-Trichlorophenol	<330	µg/kg-dry	330							
2,4-Dichlorophenol	<330	µg/kg-dry	330							
2,4-Dimethylphenol	<330	µg/kg-dry	330							
2,4-Dinitrophenol	<1650	µg/kg-dry	1650							
2,4-Dinitrotoluene (2,4-DNT)	<330	µg/kg-dry	330							
2,6-Dichlorophenol	<330	µg/kg-dry	330							
2,6-Dinitrotoluene (2,6-DNT)	<330	µg/kg-dry	330							
2-Acetylaminofluorene	<330	µg/kg-dry	330							
2-Amino-4-nitrotoluene (5-Nitro-o-toluidine)	<330	µg/kg-dry	330							
2-Chloronaphthalene	<330	µg/kg-dry	330							
2-Chlorophenol	<330	µg/kg-dry	330							
2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	<1650	µg/kg-dry	1650							
2-Methylaniline (o-Toluidine)	<1650	µg/kg-dry	1650							
2-Methylnaphthalene	<200	µg/kg-dry	200							
2-Methylphenol (o-Cresol)	<330	µg/kg-dry	330							
2-Naphthylamine	<330	µg/kg-dry	330							
2-Nitroaniline	<1650	µg/kg-dry	1650							
2-Nitrophenol	<330	µg/kg-dry	330							
2-Picoline (2-Methylpyridine)	<330	µg/kg-dry	330							
3&4-Methylphenol	<330	µg/kg-dry	330							
3,3'-Dichlorobenzidine	<660	µg/kg-dry	660							
3-Methylcholanthrene	<330	µg/kg-dry	330							
3-Nitroaniline	<1650	µg/kg-dry	1650							
4-Aminobiphenyl	<660	µg/kg-dry	660							
4-Bromophenyl phenyl ether (BDE-3)	<330	µg/kg-dry	330							
4-Chloro-3-methylphenol	<660	µg/kg-dry	660							
4-Chloroaniline	<660	µg/kg-dry	660							
4-Chlorophenyl phenylether	<330	µg/kg-dry	330							

Client:	Advanced Geologic Sciences, LLC	**Work Order:**	CC2502268
Project:	Kenton Ohio RMR	**Date Collected:**	NA
Matrix:	SOIL/SOLID	**Date Received:**	NA
Batch:	1953779		

MB	**CLIENT ID: Method Blank**	**Lab ID: QC-1953779-001**
Method: EPA 8270C	**Dilution:** 1	**Analysis Date:** 04/17/25 09:56
		Prep Date: 04/16/25 16:19

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
4-Dimethyl aminoazobenzene	<330	µg/kg-dry	330							
4-Nitroaniline	<660	µg/kg-dry	660							
4-Nitrophenol	<1650	µg/kg-dry	1650							
4-Nitroquinoline-1-oxide	<1650	µg/kg-dry	1650							
7,12-Dimethylbenz(a)anthracene	<330	µg/kg-dry	330							
Acenaphthene	<200	µg/kg-dry	200							
Acenaphthylene	<200	µg/kg-dry	200							
Acetophenone	<330	µg/kg-dry	330							
Aniline	<330	µg/kg-dry	330							
Anthracene	<200	µg/kg-dry	200							
Azobenzene	<330	µg/kg-dry	330							
Benzidine	<330	µg/kg-dry	330							
Benzo(a)anthracene	<100	µg/kg-dry	100							
Benzo(a)pyrene	<100	µg/kg-dry	100							
Benzo(b)fluoranthene	<200	µg/kg-dry	200							
Benzo(g,h,i)perylene	<200	µg/kg-dry	200							
Benzo(k)fluoranthene	<200	µg/kg-dry	200							
Benzyl alcohol	<660	µg/kg-dry	660							
bis(2-Chloroethoxy)methane	<330	µg/kg-dry	330							
bis(2-Chloroethyl) ether	<330	µg/kg-dry	330							
Butyl benzyl phthalate	<330	µg/kg-dry	330							
Carbazole	<200	µg/kg-dry	200							
Chrysene	<200	µg/kg-dry	200							
Di(2-ethylhexyl) phthalate (bis(2-Ethylhexyl)phthalate, DEHP)	<330	µg/kg-dry	330							
Dibenz(a,h) anthracene	<100	µg/kg-dry	100							
Dibenzofuran	<200	µg/kg-dry	200							
Diethyl phthalate	<330	µg/kg-dry	330							
Dimethyl phthalate	<330	µg/kg-dry	330							
Di-n-butyl phthalate	<330	µg/kg-dry	330							
Di-n-octyl phthalate	<330	µg/kg-dry	330							
Dinoseb (2-sec-butyl-4,6-dinitrophenol, DNBP)	<330	µg/kg-dry	330							
Diphenylamine	<330	µg/kg-dry	330							
Ethyl methanesulfonate	<330	µg/kg-dry	330							
Fluoranthene	<200	µg/kg-dry	200							
Fluorene	<200	µg/kg-dry	200							
Hexachlorobenzene	<330	µg/kg-dry	330							
Hexachlorobutadiene	<330	µg/kg-dry	330							
Hexachlorocyclopentadiene	<330	µg/kg-dry	330							
Hexachloroethane	<330	µg/kg-dry	330							
Indeno(1,2,3-cd) pyrene	<100	µg/kg-dry	100							
Isophorone	<330	µg/kg-dry	330							
Isosafrole	<330	µg/kg-dry	330							
Methapyrilene	<1650	µg/kg-dry	1650							
Methyl methanesulfonate	<330	µg/kg-dry	330							

Client:	Advanced Geologic Sciences, LLC	**Work Order:**	CC2502268
Project:	Kenton Ohio RMR	**Date Collected:**	NA
Matrix:	SOIL/SOLID	**Date Received:**	NA
Batch:	1953779		

MB | **CLIENT ID: Method Blank** | **Lab ID: QC-1953779-001**

Method: EPA 8270C | **Dilution:** 1 | **Analysis Date:** 04/17/25 09:56 | **Prep Date:** 04/16/25 16:19

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Methylphenol, Total	<660	µg/kg-dry	660							
Naphthalene	<200	µg/kg-dry	200							
Nitrobenzene	<330	µg/kg-dry	330							
n-Nitrosodiethylamine	<330	µg/kg-dry	330							
n-Nitrosodimethylamine	<330	µg/kg-dry	330							
n-Nitroso-di-n-butylamine	<330	µg/kg-dry	330							
n-Nitrosodi-n-propylamine	<330	µg/kg-dry	330							
n-Nitrosomethylethylamine	<330	µg/kg-dry	330							
n-Nitrosomorpholine	<330	µg/kg-dry	330							
n-Nitrosopiperidine	<330	µg/kg-dry	330							
n-Nitrosopyrrolidine	<330	µg/kg-dry	330							
Pentachlorobenzene	<330	µg/kg-dry	330							
Pentachloroethane	<330	µg/kg-dry	330							
Pentachloronitrobenzene	<660	µg/kg-dry	660							
Pentachlorophenol	<1650	µg/kg-dry	1650							
Phenacetin	<660	µg/kg-dry	660							
Phenanthrene	<200	µg/kg-dry	200							
Phenol	<330	µg/kg-dry	330							
Pyrene	<200	µg/kg-dry	200							
Pyridine	<330	µg/kg-dry	330							
Safrole	<330	µg/kg-dry	330							
Surr: 2,4,6-Tribromophenol	***5740***	*µg/kg-dry*		6660		86.1	*14.2-136*			
Surr: 2-Fluorobiphenyl	***2830***	*µg/kg-dry*		3330		85.0	*30-116*			
Surr: 2-Fluorophenol	***6050***	*µg/kg-dry*		6660		90.9	*5.42-113*			
Surr: 4-Terphenyl-d14	***2880***	*µg/kg-dry*		3330		86.4	*27.3-138*			
Surr: Nitrobenzene-d5	***2900***	*µg/kg-dry*		3330		87.1	*23.7-109*			
Surr: Phenol-d6	***6010***	*µg/kg-dry*		6660		90.2	*13.8-108*			

LCS | **CLIENT ID: Laboratory Control Sample** | **Lab ID: QC-1953779-002**

Method: EPA 8270C | **Dilution:** 1 | **Analysis Date:** 04/17/25 10:13 | **Prep Date:** 04/16/25 16:19

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
1,2,4-Trichlorobenzene	2640	µg/kg-dry	330	3330		79.2	39-104			
1,4-Dichlorobenzene (p-Dichlorobenzene)	2330	µg/kg-dry	330	3330		69.9	38.7-95.1			
2,4-Dinitrotoluene (2,4-DNT)	2760	µg/kg-dry	330	3330		82.8	52.4-99.5			
2-Chlorophenol	2400	µg/kg-dry	330	3330		71.9	34.7-116			
4-Chloro-3-methylphenol	2730	µg/kg-dry	660	3330		81.9	32.1-109			
4-Nitrophenol	2700	µg/kg-dry	1650	3330		81.1	36.2-146			
Acenaphthene	2620	µg/kg-dry	200	3330		78.7	52-119			
Acenaphthylene	2750	µg/kg-dry	200	3330		82.6	46-118			
Anthracene	2730	µg/kg-dry	200	3330		82.1	56-109			
Benzo(a)anthracene	2820	µg/kg-dry	100	3330		84.5	48-121			
Benzo(a)pyrene	2900	µg/kg-dry	100	3330		87.1	40.1-114			

Client:	Advanced Geologic Sciences, LLC	**Work Order:**	CC2502268
Project:	Kenton Ohio RMR	**Date Collected:**	NA
Matrix:	SOIL/SOLID	**Date Received:**	NA
Batch:	1953779		

LCS | **CLIENT ID: Laboratory Control Sample** | **Lab ID: QC-1953779-002**

Method: EPA 8270C | **Dilution:** 1 | **Analysis Date:** 04/17/25 10:13 | **Prep Date:** 04/16/25 16:19

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Benzo(b)fluoranthene	2730	µg/kg-dry	200	3330		81.9	44-115			
Benzo(g,h,i)perylene	2820	µg/kg-dry	200	3330		84.6	47.9-113			
Benzo(k)fluoranthene	2870	µg/kg-dry	200	3330		86.2	39.5-116			
Carbazole	2730	µg/kg-dry	200	3330		82.1	43.3-146			
Chrysene	2790	µg/kg-dry	200	3330		83.8	49.2-115			
Dibenz(a,h) anthracene	2870	µg/kg-dry	100	3330		86.2	41.7-123			
Fluoranthene	2730	µg/kg-dry	200	3330		82.0	52.7-118			
Fluorene	2660	µg/kg-dry	200	3330		79.9	56.3-106			
Indeno(1,2,3-cd) pyrene	2890	µg/kg-dry	100	3330		86.8	41.1-124			
n-Nitrosodi-n-propylamine	1660	µg/kg-dry	330	3330		49.8	25.3-127			
Pentachlorophenol	2820	µg/kg-dry	1650	3330		84.7	22.1-105			
Phenanthrene	2710	µg/kg-dry	200	3330		81.5	52.8-114			
Phenol	2440	µg/kg-dry	330	3330		73.4	36.9-97.8			
Pyrene	2690	µg/kg-dry	200	3330		80.7	50.7-109			
Surr: 2,4,6-Tribromophenol	***5490***	*µg/kg-dry*		6660		82.4	*14.2-136*			
Surr: 2-Fluorobiphenyl	***2660***	*µg/kg-dry*		3330		80.0	*30-116*			
Surr: 2-Fluorophenol	***4950***	*µg/kg-dry*		6660		74.4	*5.42-113*			
Surr: 4-Terphenyl-d14	***2630***	*µg/kg-dry*		3330		79.1	*27.3-138*			
Surr: Nitrobenzene-d5	***2490***	*µg/kg-dry*		3330		74.9	*23.7-109*			
Surr: Phenol-d6	***4930***	*µg/kg-dry*		6660		74.1	*13.8-108*			

MS | **CLIENT ID: SB-5 (4-6)** | **Lab ID: QC-1953779-004**

Method: EPA 8270C | **Dilution:** 1 | **Analysis Date:** 04/17/25 10:29 | **Prep Date:** 04/16/25 16:19

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
1,2,4-Trichlorobenzene	2660	µg/kg-dry	397	3332.2	<397	80.0	39-91.8			
1,4-Dichlorobenzene (p-Dichlorobenzene)	2350	µg/kg-dry	397	3332.2	<397	70.4	32.9-90			
2,4-Dinitrotoluene (2,4-DNT)	2630	µg/kg-dry	397	3332.2	<397	78.7	29.7-121			
2-Chlorophenol	2410	µg/kg-dry	397	3332.2	<397	72.3	33.3-109			
4-Chloro-3-methylphenol	2720	µg/kg-dry	794	3332.2	<794	81.6	35.8-116			
4-Nitrophenol	2250	µg/kg-dry	1990	3332.2	<1990	66.5	34.1-120			
Acenaphthene	2610	µg/kg-dry	241	3332.2	<241	78.3	44-108			
Acenaphthylene	2730	µg/kg-dry	241	3332.2	<241	82.0	43.6-110			
Anthracene	2720	µg/kg-dry	241	3332.2	<241	81.7	35.8-104			
Benzo(a)anthracene	2670	µg/kg-dry	120	3332.2	<120	80.0	47-114			
Benzo(a)pyrene	2840	µg/kg-dry	120	3332.2	<120	85.4	43.8-115			
Benzo(b)fluoranthene	2670	µg/kg-dry	241	3332.2	<241	80.2	40-106			
Benzo(g,h,i)perylene	2680	µg/kg-dry	241	3332.2	<241	80.2	38.2-110			
Benzo(k)fluoranthene	2780	µg/kg-dry	241	3332.2	<241	83.4	48.6-107			
Carbazole	2570	µg/kg-dry	241	3332.2	<241	77.2	28.5-114			
Chrysene	2660	µg/kg-dry	241	3332.2	<241	79.7	44.3-97.5			
Dibenz(a,h) anthracene	2700	µg/kg-dry	120	3332.2	<120	81.0	46-116			
Fluoranthene	2670	µg/kg-dry	241	3332.2	<241	80.2	40.2-129			

Client: Advanced Geologic Sciences, LLC
Project: Kenton Ohio RMR
Matrix: SOIL/SOLID
Batch: 1953779

Work Order: CC2502268
Date Collected: NA
Date Received: NA

MS | **CLIENT ID: SB-5 (4-6)** | **Lab ID: QC-1953779-004**

Method: EPA 8270C | **Dilution:** 1 | **Analysis Date:** 04/17/25 10:29 | **Prep Date:** 04/16/25 16:19

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Fluorene	2620	µg/kg-dry	241	3332.2	<241	78.7	42.8-106			
Indeno(1,2,3-cd) pyrene	2740	µg/kg-dry	120	3332.2	<120	82.1	33-115			
Naphthalene	2590	µg/kg-dry	241	3332.2	<241	77.4	18.2-126			
n-Nitrosodi-n-propylamine	1630	µg/kg-dry	397	3332.2	<397	48.2	3.32-83.9			
Pentachlorophenol	2280	µg/kg-dry	1990	3332.2	<1990	66.6	9.31-107			
Phenanthrene	2680	µg/kg-dry	241	3332.2	<241	80.4	31.2-127			
Phenol	2480	µg/kg-dry	397	3332.2	<397	74.3	25.9-90.3			
Pyrene	2620	µg/kg-dry	241	3332.2	<241	78.7	33.7-129			
Surr: 2,4,6-Tribromophenol	***5220***	*µg/kg-dry*		6664.4		78.3	*14.2-136*			
Surr: 2-Fluorobiphenyl	***2620***	*µg/kg-dry*		3332.2		78.8	*30-116*			
Surr: 2-Fluorophenol	***4840***	*µg/kg-dry*		6664.4		72.6	*5.42-113*			
Surr: 4-Terphenyl-d14	***2540***	*µg/kg-dry*		3332.2		76.4	*27.3-138*			
Surr: Nitrobenzene-d5	***2480***	*µg/kg-dry*		3332.2		74.3	*23.7-109*			
Surr: Phenol-d6	***4880***	*µg/kg-dry*		6664.4		73.2	*13.8-108*			

MSD | **CLIENT ID: SB-5 (4-6)** | **Lab ID: QC-1953779-005**

Method: EPA 8270C | **Dilution:** 1 | **Analysis Date:** 04/17/25 10:46 | **Prep Date:** 04/16/25 16:19

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
1,2,4-Trichlorobenzene	2660	µg/kg-dry	397	3330	<397	79.9	39-91.8	0.0892	20	
1,4-Dichlorobenzene (p-Dichlorobenzene)	2370	µg/kg-dry	397	3330	<397	71.0	32.9-90	0.844	20	
2,4-Dinitrotoluene (2,4-DNT)	2640	µg/kg-dry	397	3330	<397	79.1	29.7-121	0.442	20	
2-Chlorophenol	2410	µg/kg-dry	397	3330	<397	72.4	33.3-109	0.0114	20	
4-Chloro-3-methylphenol	2690	µg/kg-dry	794	3330	<794	80.8	35.8-116	1.03	20	
4-Nitrophenol	2320	µg/kg-dry	1990	3330	<1990	68.7	34.1-120	3.11	20	
Acenaphthene	2620	µg/kg-dry	240	3330	<240	78.7	44-108	0.458	20	
Acenaphthylene	2740	µg/kg-dry	240	3330	<240	82.4	43.6-110	0.396	20	
Anthracene	2710	µg/kg-dry	240	3330	<240	81.3	35.8-104	0.496	20	
Benzo(a)anthracene	2790	µg/kg-dry	120	3330	<120	83.8	47-114	4.50	20	
Benzo(a)pyrene	2930	µg/kg-dry	120	3330	<120	87.8	43.8-115	2.81	20	
Benzo(b)fluoranthene	2740	µg/kg-dry	240	3330	<240	82.2	40-106	2.46	20	
Benzo(g,h,i)perylene	2740	µg/kg-dry	240	3330	<240	82.2	38.2-110	2.34	20	
Benzo(k)fluoranthene	2850	µg/kg-dry	240	3330	<240	85.5	48.6-107	2.49	20	
Carbazole	2680	µg/kg-dry	240	3330	<240	80.4	28.5-114	4.07	20	
Chrysene	2760	µg/kg-dry	240	3330	<241	82.5	44.3-97.5	3.40	20	
Dibenz(a,h) anthracene	2810	µg/kg-dry	120	3330	<120	84.5	46-116	4.18	20	
Fluoranthene	2710	µg/kg-dry	240	3330	<240	81.3	40.2-129	1.34	20	
Fluorene	2630	µg/kg-dry	240	3330	<240	78.8	42.8-106	0.121	20	
Indeno(1,2,3-cd) pyrene	2830	µg/kg-dry	120	3330	<120	85.0	33-115	3.33	20	
Naphthalene	2580	µg/kg-dry	240	3330	<240	77.3	18.2-126	0.242	20	
n-Nitrosodi-n-propylamine	1620	µg/kg-dry	397	3330	<397	47.8	3.32-83.9	0.956	20	
Pentachlorophenol	2380	µg/kg-dry	1990	3330	<1990	69.6	9.31-107	4.25	20	
Phenanthrene	2670	µg/kg-dry	240	3330	<240	80.3	31.2-127	0.234	20	

QA/QC Report

Client: Advanced Geologic Sciences, LLC
Project: Kenton Ohio RMR
Matrix: SOIL/SOLID
Batch: 1953779

Work Order: CC2502268
Date Collected: NA
Date Received: NA

MSD | **CLIENT ID: SB-5 (4-6)** | **Lab ID: QC-1953779-005**

Method: EPA 8270C **Dilution:** 1 **Analysis Date:** 04/17/25 10:46
Prep Date: 04/16/25 16:19

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Phenol	2450	µg/kg-dry	397	3330	<397	73.4	25.9-90.3	1.30	20	
Pyrene	2660	µg/kg-dry	240	3330	<240	79.9	33.7-129	1.50	20	
Surr: 2,4,6-Tribromophenol	***5360***	*µg/kg-dry*		6660		80.4	*14.2-136*	2.65	30	
Surr: 2-Fluorobiphenyl	***2620***	*µg/kg-dry*		3330		78.7	*30-116*	0.115	30	
Surr: 2-Fluorophenol	***4790***	*µg/kg-dry*		6660		71.9	*5.42-113*	1.04	30	
Surr: 4-Terphenyl-d14	***2600***	*µg/kg-dry*		3330		78.2	*27.3-138*	2.28	30	
Surr: Nitrobenzene-d5	***2450***	*µg/kg-dry*		3330		73.4	*23.7-109*	1.26	30	
Surr: Phenol-d6	***4880***	*µg/kg-dry*		6660		73.3	*13.8-108*	0.160	30	

The following samples were analyzed in this batch: CC2502268-005, CC2502268-006

Client:	Advanced Geologic Sciences, LLC	**Work Order:**	CC2502268
Project:	Kenton Ohio RMR	**Date Collected:**	NA
Matrix:	SOIL/SOLID	**Date Received:**	NA
Batch:	1952174		

Volatile Organic Compounds by GC-MS

MB | **CLIENT ID: Method Blank** | **Lab ID: QC-1952174-001**

Method: EPA 8260B | **Dilution:** 1 | **Analysis Date:** 04/15/25 10:57 | **Prep Date:** 04/15/25 09:00

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	<5.00	µg/kg-dry	5.00							
1,1,1-Trichloroethane	<5.00	µg/kg-dry	5.00							
1,1,2,2-Tetrachloroethane	<5.00	µg/kg-dry	5.00							
1,1,2-Trichloroethane	<5.00	µg/kg-dry	5.00							
1,1-Dichloroethane	<5.00	µg/kg-dry	5.00							
1,1-Dichloroethylene	<5.00	µg/kg-dry	5.00							
1,1-Dichloropropene	<5.00	µg/kg-dry	5.00							
1,2,3-Trichlorobenzene	<5.00	µg/kg-dry	5.00							
1,2,3-Trichloropropane	<5.00	µg/kg-dry	5.00							
1,2,4-Trichlorobenzene	<5.00	µg/kg-dry	5.00							
1,2,4-Trimethylbenzene	<5.00	µg/kg-dry	5.00							
1,2-Dibromo-3-chloropropane (DBCP)	<5.00	µg/kg-dry	5.00							
1,2-Dibromoethane (EDB, Ethylene dibromide)	<0.770	µg/kg-dry	0.770							
1,2-Dichlorobenzene (o-Dichlorobenzene)	<5.00	µg/kg-dry	5.00							
1,2-Dichloroethane (Ethylene dichloride)	<5.00	µg/kg-dry	5.00							
1,2-Dichloropropane	<5.00	µg/kg-dry	5.00							
1,3,5-Trimethylbenzene	<5.00	µg/kg-dry	5.00							
1,3-Dichlorobenzene (m-Dichlorobenzene)	<5.00	µg/kg-dry	5.00							
1,3-Dichloropropane	<5.00	µg/kg-dry	5.00							
1,3-Dichloropropene	<10.0	µg/kg-dry	10.0							
1,4-Dichlorobenzene (p-Dichlorobenzene)	<5.00	µg/kg-dry	5.00							
2,2-Dichloropropane	<5.00	µg/kg-dry	5.00							
2-Butanone (Methyl ethyl ketone, MEK)	<50.0	µg/kg-dry	50.0							
2-Chlorotoluene	<5.00	µg/kg-dry	5.00							
2-Hexanone	<5.00	µg/kg-dry	5.00							
4-Chlorotoluene	<5.00	µg/kg-dry	5.00							
4-Isopropyltoluene (p-Cymene)	<5.00	µg/kg-dry	5.00							
4-Methyl-2-pentanone (MIBK)	<5.00	µg/kg-dry	5.00							
Acetone	<50.0	µg/kg-dry	50.0							
Benzene	<5.00	µg/kg-dry	5.00							
Bromobenzene	<5.00	µg/kg-dry	5.00							
Bromochloromethane	<5.00	µg/kg-dry	5.00							
Bromodichloromethane	<5.00	µg/kg-dry	5.00							
Bromoform	<5.00	µg/kg-dry	5.00							
Carbon disulfide	<5.00	µg/kg-dry	5.00							
Carbon tetrachloride	<5.00	µg/kg-dry	5.00							
Chlorobenzene	<5.00	µg/kg-dry	5.00							
Chlorodibromomethane	<5.00	µg/kg-dry	5.00							
Chloroethane (Ethyl chloride)	<5.00	µg/kg-dry	5.00							

QA/QC Report

Client: Advanced Geologic Sciences, LLC
Project: Kenton Ohio RMR
Matrix: SOIL/SOLID
Batch: 1952174

Work Order: CC2502268
Date Collected: NA
Date Received: NA

MB | **CLIENT ID: Method Blank** | **Lab ID: QC-1952174-001**

Method: EPA 8260B | **Dilution:** 1 | **Analysis Date:** 04/15/25 10:57 | **Prep Date:** 04/15/25 09:00

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Chloroform	<5.00	µg/kg-dry	5.00							
cis & trans-1,2-Dichloroethene	<10.0	µg/kg-dry	10.0							
cis-1,2-Dichloroethylene	<5.00	µg/kg-dry	5.00							
cis-1,3-Dichloropropene	<5.00	µg/kg-dry	5.00							
Dibromomethane (Methylene bromide)	<5.00	µg/kg-dry	5.00							
Dichlorodifluoromethane (Freon-12)	<8.00	µg/kg-dry	8.00							
Ethylbenzene	<5.00	µg/kg-dry	5.00							
Hexachlorobutadiene	<5.00	µg/kg-dry	5.00							
Isopropylbenzene	<5.00	µg/kg-dry	5.00							
m+p-Xylene	<10.0	µg/kg-dry	10.0							
Methyl bromide (Bromomethane)	<5.00	µg/kg-dry	5.00							
Methyl chloride (Chloromethane)	<5.00	µg/kg-dry	5.00							
Methyl tert-butyl ether (MTBE)	<5.00	µg/kg-dry	5.00							
Methylene chloride (Dichloromethane)	<20.0	µg/kg-dry	20.0							
Naphthalene	<5.00	µg/kg-dry	5.00							
n-Butylbenzene	<5.00	µg/kg-dry	5.00							
n-Propylbenzene	<5.00	µg/kg-dry	5.00							
o-Xylene	<5.00	µg/kg-dry	5.00							
sec-Butylbenzene	<5.00	µg/kg-dry	5.00							
Styrene	<5.00	µg/kg-dry	5.00							
tert-Butylbenzene	<5.00	µg/kg-dry	5.00							
Tetrachloroethylene (Perchloroethylene)	<5.00	µg/kg-dry	5.00							
Toluene	<5.00	µg/kg-dry	5.00							
Total Xylene	<15.0	µg/kg-dry	15.0							
trans-1,2-Dichloroethylene	<5.00	µg/kg-dry	5.00							
trans-1,3-Dichloropropylene	<5.00	µg/kg-dry	5.00							
Trichloroethene (Trichloroethylene)	<5.00	µg/kg-dry	5.00							
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	<5.00	µg/kg-dry	5.00							
Vinyl chloride (Chloroethene)	<5.00	µg/kg-dry	5.00							
Surr: 4-Bromofluorobenzene	***49.0***	*µg/kg-dry*		50		97.9	*78.9-128*			
Surr: Dibromofluoromethane	***45.1***	*µg/kg-dry*		50		90.1	*79.1-140*			
Surr: Toluene-d8	***54.3***	*µg/kg-dry*		50		109	*84.5-124*			

LCS | **CLIENT ID: Laboratory Control Sample** | **Lab ID: QC-1952174-002**

Method: EPA 8260B | **Dilution:** 1 | **Analysis Date:** 04/15/25 09:48 | **Prep Date:** 04/15/25 09:00

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
1,1,1-Trichloroethane	55.2	µg/kg-dry	5.00	50		110	51.9-139			
1,1-Dichloroethylene	63.3	µg/kg-dry	5.00	50		126	38.8-176			
1,2-Dichloroethane (Ethylene dichloride)	55.0	µg/kg-dry	5.00	50		110	54.4-145			

Client: Advanced Geologic Sciences, LLC
Project: Kenton Ohio RMR
Matrix: SOIL/SOLID
Batch: 1952174

Work Order: CC2502268
Date Collected: NA
Date Received: NA

LCS | **CLIENT ID: Laboratory Control Sample** | **Lab ID: QC-1952174-002**

Method: EPA 8260B | **Dilution:** 1 | **Analysis Date:** 04/15/25 09:48 | **Prep Date:** 04/15/25 09:00

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
1,3-Dichlorobenzene (m-Dichlorobenzene)	52.0	µg/kg-dry	5.00	50		104	58.4-144			
1,4-Dichlorobenzene (p-Dichlorobenzene)	51.9	µg/kg-dry	5.00	50		104	55.3-144			
Benzene	52.0	µg/kg-dry	5.00	50		104	56-148			
Carbon tetrachloride	56.1	µg/kg-dry	5.00	50		112	51.9-151			
Chlorobenzene	51.2	µg/kg-dry	5.00	50		102	55.4-137			
Chloroform	52.3	µg/kg-dry	5.00	50		104	51.1-147			
cis-1,2-Dichloroethylene	52.6	µg/kg-dry	5.00	50		105	47.6-149			
Ethylbenzene	53.0	µg/kg-dry	5.00	50		106	55.8-142			
m+p-Xylene	109	µg/kg-dry	10.0	100		109	57.6-141			
Styrene	48.9	µg/kg-dry	5.00	50		97.8	59.6-143			
Tetrachloroethylene (Perchloroethylene)	43.8	µg/kg-dry	5.00	50		87.6	41.8-152			
Toluene	54.6	µg/kg-dry	5.00	50		109	56-143			
Trichloroethene (Trichloroethylene)	50.1	µg/kg-dry	5.00	50		100	56.5-143			
Surr: 4-Bromofluorobenzene	***49.0***	*µg/kg-dry*		50		97.9	*78.9-128*			
Surr: Dibromofluoromethane	***50.6***	*µg/kg-dry*		50		101	*79.1-140*			
Surr: Toluene-d8	***52.4***	*µg/kg-dry*		50		105	*84.5-124*			

MS | **CLIENT ID: Batch QC** | **Lab ID: QC-1952174-004**

Method: EPA 8260B | **Dilution:** 1 | **Analysis Date:** 04/15/25 10:25 | **Prep Date:** 04/15/25 09:00

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
1,1,1-Trichloroethane	43.5	µg/kg-dry	6.02	50	<6.02	87.0	66.9-140			
1,1-Dichloroethylene	52.8	µg/kg-dry	6.02	50	<6.02	106	41.4-161			
1,2-Dichloroethane (Ethylene dichloride)	43.7	µg/kg-dry	6.02	50	<6.02	86.8	58.9-137			
1,3-Dichlorobenzene (m-Dichlorobenzene)	41.0	µg/kg-dry	6.02	50	<6.02	82.0	42.5-150			
1,4-Dichlorobenzene (p-Dichlorobenzene)	41.4	µg/kg-dry	6.02	50	<6.02	82.6	52.1-137			
Benzene	42.4	µg/kg-dry	6.02	50	<6.02	84.8	35.8-162			
Carbon tetrachloride	43.8	µg/kg-dry	6.02	50	<6.02	87.6	53.2-137			
Chlorobenzene	41.5	µg/kg-dry	6.02	50	<6.02	83.0	65.6-137			
Chloroform	42.3	µg/kg-dry	6.02	50	<6.02	84.6	63.6-147			
cis-1,2-Dichloroethylene	41.8	µg/kg-dry	6.02	50	<6.02	83.7	52.9-138			
Ethylbenzene	42.5	µg/kg-dry	6.02	50	<6.02	84.8	57.5-134			
m+p-Xylene	88.5	µg/kg-dry	12.0	100	<12.0	88.5	56.4-135			
Styrene	39.3	µg/kg-dry	6.02	50	<6.02	78.6	60.9-135			
Tetrachloroethylene (Perchloroethylene)	34.8	µg/kg-dry	6.02	50	<6.02	69.6	28.3-109			
Toluene	45.4	µg/kg-dry	6.02	50	<6.02	90.1	67.7-135			
Trichloroethene (Trichloroethylene)	39.5	µg/kg-dry	6.02	50	<6.02	79.0	56.5-136			
Surr: 4-Bromofluorobenzene	***49.3***	*µg/kg-dry*		50		98.5	*78.9-128*			

QA/QC Report

Client: Advanced Geologic Sciences, LLC
Work Order: CC2502268
Project: Kenton Ohio RMR
Date Collected: NA
Matrix: SOIL/SOLID
Date Received: NA
Batch: 1952174

MS | **CLIENT ID: Batch QC** | **Lab ID: QC-1952174-004**

Method: EPA 8260B | **Dilution:** 1 | **Analysis Date:** 04/15/25 10:25 | **Prep Date:** 04/15/25 09:00

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Surr: Dibromofluoromethane	***50.9***	*µg/kg-dry*		50		102	*79.1-140*			
Surr: Toluene-d8	***53.3***	*µg/kg-dry*		50		106	*84.5-124*			

MSD | **CLIENT ID: Batch QC** | **Lab ID: QC-1952174-005**

Method: EPA 8260B | **Dilution:** 1 | **Analysis Date:** 04/15/25 10:41 | **Prep Date:** 04/15/25 09:00

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
1,1,1-Trichloroethane	45.5	µg/kg-dry	6.02	50	<6.02	91.1	66.9-140	4.60	20	
1,1-Dichloroethylene	45.2	µg/kg-dry	6.02	50	<6.02	90.4	41.4-161	15.5	20	
1,2-Dichloroethane (Ethylene dichloride)	44.8	µg/kg-dry	6.02	50	<6.02	89.0	58.9-137	2.46	20	
1,3-Dichlorobenzene (m-Dichlorobenzene)	39.3	µg/kg-dry	6.02	50	<6.02	78.6	42.5-150	4.29	20	
1,4-Dichlorobenzene (p-Dichlorobenzene)	39.4	µg/kg-dry	6.02	50	<6.02	78.6	52.1-137	5.01	20	
Benzene	42.5	µg/kg-dry	6.02	50	<6.02	85.0	35.8-162	0.231	20	
Carbon tetrachloride	45.1	µg/kg-dry	6.02	50	<6.02	90.1	53.2-137	2.82	20	
Chlorobenzene	41.4	µg/kg-dry	6.02	50	<6.02	82.8	65.6-137	0.260	20	
Chloroform	42.8	µg/kg-dry	6.02	50	<6.02	85.7	63.6-147	1.33	20	
cis-1,2-Dichloroethylene	42.8	µg/kg-dry	6.02	50	<6.02	85.6	52.9-138	2.24	20	
Ethylbenzene	42.2	µg/kg-dry	6.02	50	<6.02	84.3	57.5-134	0.548	20	
m+p-Xylene	87.6	µg/kg-dry	12.0	100	<12.0	87.5	56.4-135	1.04	20	
Styrene	38.4	µg/kg-dry	6.02	50	<6.02	76.8	60.9-135	2.35	20	
Tetrachloroethylene (Perchloroethylene)	35.6	µg/kg-dry	6.02	50	<6.02	71.2	28.3-109	2.38	20	
Toluene	45.4	µg/kg-dry	6.02	50	<6.02	90.1	67.7-135	0.0507	20	
Trichloroethene (Trichloroethylene)	39.5	µg/kg-dry	6.02	50	<6.02	79.0	56.5-136	0.0380	20	
Surr: 4-Bromofluorobenzene	***49.2***	*µg/kg-dry*		50		98.4	*78.9-128*	0.130	30	
Surr: Dibromofluoromethane	***51.5***	*µg/kg-dry*		50		103	*79.1-140*	1.26	30	
Surr: Toluene-d8	***53.3***	*µg/kg-dry*		50		107	*84.5-124*	0.0825	30	

The following samples were analyzed in this batch: CC2502268-004, CC2502268-006

Client: Advanced Geologic Sciences, LLC
Project: Kenton Ohio RMR
Matrix: SOIL/SOLID
Batch: 1953382

Work Order: CC2502268
Date Collected: NA
Date Received: NA

Volatile Organic Compounds by GC-MS

MB | **CLIENT ID: Method Blank** | **Lab ID: QC-1953382-001**

Method: EPA 8260B | **Dilution:** 1 | **Analysis Date:** 04/15/25 10:57 | **Prep Date:** 04/15/25 09:00

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	<5.00	µg/kg-dry	5.00							
1,1,1-Trichloroethane	<5.00	µg/kg-dry	5.00							
1,1,2,2-Tetrachloroethane	<5.00	µg/kg-dry	5.00							
1,1,2-Trichloroethane	<5.00	µg/kg-dry	5.00							
1,1-Dichloroethane	<5.00	µg/kg-dry	5.00							
1,1-Dichloroethylene	<5.00	µg/kg-dry	5.00							
1,1-Dichloropropene	<5.00	µg/kg-dry	5.00							
1,2,3-Trichlorobenzene	<5.00	µg/kg-dry	5.00							
1,2,3-Trichloropropane	<5.00	µg/kg-dry	5.00							
1,2,4-Trichlorobenzene	<5.00	µg/kg-dry	5.00							
1,2,4-Trimethylbenzene	<5.00	µg/kg-dry	5.00							
1,2-Dibromo-3-chloropropane (DBCP)	<5.00	µg/kg-dry	5.00							
1,2-Dibromoethane (EDB, Ethylene dibromide)	<0.770	µg/kg-dry	0.770							
1,2-Dichlorobenzene (o-Dichlorobenzene)	<5.00	µg/kg-dry	5.00							
1,2-Dichloroethane (Ethylene dichloride)	<5.00	µg/kg-dry	5.00							
1,2-Dichloropropane	<5.00	µg/kg-dry	5.00							
1,3,5-Trimethylbenzene	<5.00	µg/kg-dry	5.00							
1,3-Dichlorobenzene (m-Dichlorobenzene)	<5.00	µg/kg-dry	5.00							
1,3-Dichloropropane	<5.00	µg/kg-dry	5.00							
1,3-Dichloropropene	<10.0	µg/kg-dry	10.0							
1,4-Dichlorobenzene (p-Dichlorobenzene)	<5.00	µg/kg-dry	5.00							
2,2-Dichloropropane	<5.00	µg/kg-dry	5.00							
2-Butanone (Methyl ethyl ketone, MEK)	<50.0	µg/kg-dry	50.0							
2-Chlorotoluene	<5.00	µg/kg-dry	5.00							
2-Hexanone	<5.00	µg/kg-dry	5.00							
4-Chlorotoluene	<5.00	µg/kg-dry	5.00							
4-Isopropyltoluene (p-Cymene)	<5.00	µg/kg-dry	5.00							
4-Methyl-2-pentanone (MIBK)	<5.00	µg/kg-dry	5.00							
Acetone	<50.0	µg/kg-dry	50.0							
Benzene	<5.00	µg/kg-dry	5.00							
Bromobenzene	<5.00	µg/kg-dry	5.00							
Bromochloromethane	<5.00	µg/kg-dry	5.00							
Bromodichloromethane	<5.00	µg/kg-dry	5.00							
Bromoform	<5.00	µg/kg-dry	5.00							
Carbon disulfide	<5.00	µg/kg-dry	5.00							
Carbon tetrachloride	<5.00	µg/kg-dry	5.00							
Chlorobenzene	<5.00	µg/kg-dry	5.00							
Chlorodibromomethane	<5.00	µg/kg-dry	5.00							
Chloroethane (Ethyl chloride)	<5.00	µg/kg-dry	5.00							

QA/QC Report

Client: Advanced Geologic Sciences, LLC
Project: Kenton Ohio RMR
Matrix: SOIL/SOLID
Batch: 1953382

Work Order: CC2502268
Date Collected: NA
Date Received: NA

MB | **CLIENT ID: Method Blank** | **Lab ID: QC-1953382-001**

Method: EPA 8260B | **Dilution:** 1 | **Analysis Date:** 04/15/25 10:57 | **Prep Date:** 04/15/25 09:00

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Chloroform	<5.00	µg/kg-dry	5.00							
cis & trans-1,2-Dichloroethene	<10.0	µg/kg-dry	10.0							
cis-1,2-Dichloroethylene	<5.00	µg/kg-dry	5.00							
cis-1,3-Dichloropropene	<5.00	µg/kg-dry	5.00							
Dibromomethane (Methylene bromide)	<5.00	µg/kg-dry	5.00							
Dichlorodifluoromethane (Freon-12)	<8.00	µg/kg-dry	8.00							
Ethylbenzene	<5.00	µg/kg-dry	5.00							
Hexachlorobutadiene	<5.00	µg/kg-dry	5.00							
Isopropylbenzene	<5.00	µg/kg-dry	5.00							
m+p-Xylene	<10.0	µg/kg-dry	10.0							
Methyl bromide (Bromomethane)	<5.00	µg/kg-dry	5.00							
Methyl chloride (Chloromethane)	<5.00	µg/kg-dry	5.00							
Methyl tert-butyl ether (MTBE)	<5.00	µg/kg-dry	5.00							
Methylene chloride (Dichloromethane)	<20.0	µg/kg-dry	20.0							
Naphthalene	<5.00	µg/kg-dry	5.00							
n-Butylbenzene	<5.00	µg/kg-dry	5.00							
n-Propylbenzene	<5.00	µg/kg-dry	5.00							
o-Xylene	<5.00	µg/kg-dry	5.00							
sec-Butylbenzene	<5.00	µg/kg-dry	5.00							
Styrene	<5.00	µg/kg-dry	5.00							
tert-Butylbenzene	<5.00	µg/kg-dry	5.00							
Tetrachloroethylene (Perchloroethylene)	<5.00	µg/kg-dry	5.00							
Toluene	<5.00	µg/kg-dry	5.00							
Total Xylene	<15.0	µg/kg-dry	15.0							
trans-1,2-Dichloroethylene	<5.00	µg/kg-dry	5.00							
trans-1,3-Dichloropropylene	<5.00	µg/kg-dry	5.00							
Trichloroethene (Trichloroethylene)	<5.00	µg/kg-dry	5.00							
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	<5.00	µg/kg-dry	5.00							
Vinyl chloride (Chloroethene)	<5.00	µg/kg-dry	5.00							
Surr: 4-Bromofluorobenzene	***49.4***	*µg/kg-dry*		50		98.8	*78.9-128*			
Surr: Dibromofluoromethane	***53.6***	*µg/kg-dry*		50		107	*79.1-140*			
Surr: Toluene-d8	***50.4***	*µg/kg-dry*		50		101	*84.5-124*			

LCS | **CLIENT ID: Laboratory Control Sample** | **Lab ID: QC-1953382-002**

Method: EPA 8260B | **Dilution:** 1 | **Analysis Date:** 04/15/25 09:47 | **Prep Date:** 04/15/25 09:00

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
1,1,1-Trichloroethane	52.5	µg/kg-dry	5.00	50		105	51.9-139			
1,1-Dichloroethylene	53.5	µg/kg-dry	5.00	50		107	38.8-176			
1,2-Dichloroethane (Ethylene dichloride)	51.3	µg/kg-dry	5.00	50		102	54.4-145			

QA/QC Report

Client: Advanced Geologic Sciences, LLC
Project: Kenton Ohio RMR
Matrix: SOIL/SOLID
Batch: 1953382

Work Order: CC2502268
Date Collected: NA
Date Received: NA

LCS | **CLIENT ID: Laboratory Control Sample** | **Lab ID: QC-1953382-002**

Method: EPA 8260B | **Dilution:** 1 | **Analysis Date:** 04/15/25 09:47 | **Prep Date:** 04/15/25 09:00

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
1,3-Dichlorobenzene (m-Dichlorobenzene)	48.4	µg/kg-dry	5.00	50		96.9	58.4-144			
1,4-Dichlorobenzene (p-Dichlorobenzene)	49.4	µg/kg-dry	5.00	50		98.9	55.3-144			
Benzene	52.0	µg/kg-dry	5.00	50		104	56-148			
Carbon tetrachloride	53.1	µg/kg-dry	5.00	50		106	51.9-151			
Chlorobenzene	48.8	µg/kg-dry	5.00	50		97.6	55.4-137			
Chloroform	49.4	µg/kg-dry	5.00	50		98.9	51.1-147			
cis-1,2-Dichloroethylene	52.0	µg/kg-dry	5.00	50		104	47.6-149			
Ethylbenzene	49.0	µg/kg-dry	5.00	50		98.1	55.8-142			
m+p-Xylene	102	µg/kg-dry	10.0	100		102	57.6-141			
Styrene	44.7	µg/kg-dry	5.00	50		89.3	59.6-143			
Tetrachloroethylene (Perchloroethylene)	47.8	µg/kg-dry	5.00	50		95.6	41.8-152			
Toluene	49.9	µg/kg-dry	5.00	50		99.9	56-143			
Trichloroethene (Trichloroethylene)	51.9	µg/kg-dry	5.00	50		104	56.5-143			
Surr: 4-Bromofluorobenzene	***49.4***	*µg/kg-dry*		50		98.7	*78.9-128*			
Surr: Dibromofluoromethane	***50.0***	*µg/kg-dry*		50		100	*79.1-140*			
Surr: Toluene-d8	***49.7***	*µg/kg-dry*		50		99.3	*84.5-124*			

MS | **CLIENT ID: Batch QC** | **Lab ID: QC-1953382-004**

Method: EPA 8260B | **Dilution:** 1 | **Analysis Date:** 04/15/25 10:24 | **Prep Date:** 04/15/25 09:00

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
1,1,1-Trichloroethane	41.3	µg/kg-dry	6.40	50	<6.40	82.6	66.9-140			
1,1-Dichloroethylene	41.6	µg/kg-dry	6.40	50	<6.40	83.3	41.4-161			
1,2-Dichloroethane (Ethylene dichloride)	44.5	µg/kg-dry	6.40	50	<6.40	89.0	58.9-137			
1,3-Dichlorobenzene (m-Dichlorobenzene)	37.5	µg/kg-dry	6.40	50	<6.40	74.8	42.5-150			
1,4-Dichlorobenzene (p-Dichlorobenzene)	38.1	µg/kg-dry	6.40	50	<6.40	76.1	52.1-137			
Benzene	41.9	µg/kg-dry	6.40	50	<6.40	83.7	35.8-162			
Carbon tetrachloride	40.3	µg/kg-dry	6.40	50	<6.40	80.6	53.2-137			
Chlorobenzene	40.3	µg/kg-dry	6.40	50	<6.40	80.6	65.6-137			
Chloroform	40.8	µg/kg-dry	6.40	50	<6.40	80.4	63.6-147			
cis-1,2-Dichloroethylene	42.3	µg/kg-dry	6.40	50	<6.40	84.6	52.9-138			
Ethylbenzene	39.2	µg/kg-dry	6.40	50	<6.40	78.1	57.5-134			
m+p-Xylene	81.9	µg/kg-dry	12.8	100	<12.8	81.7	56.4-135			
Styrene	36.5	µg/kg-dry	6.40	50	<6.40	72.8	60.9-135			
Tetrachloroethylene (Perchloroethylene)	37.5	µg/kg-dry	6.40	50	<6.40	74.9	28.3-109			
Toluene	39.4	µg/kg-dry	6.40	50	<6.40	78.3	67.7-135			
Trichloroethene (Trichloroethylene)	39.6	µg/kg-dry	6.40	50	<6.40	79.1	56.5-136			
Surr: 4-Bromofluorobenzene	***49.5***	*µg/kg-dry*		50		99.0	*78.9-128*			

QA/QC Report

Client: Advanced Geologic Sciences, LLC
Project: Kenton Ohio RMR
Matrix: SOIL/SOLID
Batch: 1953382

Work Order: CC2502268
Date Collected: NA
Date Received: NA

MS | **CLIENT ID: Batch QC** | **Lab ID: QC-1953382-004**

Method: EPA 8260B | **Dilution:** 1 | **Analysis Date:** 04/15/25 10:24 | **Prep Date:** 04/15/25 09:00

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
Surr: Dibromofluoromethane	***51.1***	*µg/kg-dry*		50		102	*79.1-140*			
Surr: Toluene-d8	***48.3***	*µg/kg-dry*		50		96.6	*84.5-124*			

MSD | **CLIENT ID: Batch QC** | **Lab ID: QC-1953382-005**

Method: EPA 8260B | **Dilution:** 1 | **Analysis Date:** 04/15/25 10:40 | **Prep Date:** 04/15/25 09:00

Analyte	Result	Units	MRL	Spike Amount	Spike Ref. Amount	% Rec	% Rec Limits	RPD	RPD Limit	Qual
1,1,1-Trichloroethane	46.5	µg/kg-dry	6.40	50	<6.40	93.0	66.9-140	11.8	20	
1,1-Dichloroethylene	45.4	µg/kg-dry	6.40	50	<6.40	90.7	41.4-161	8.55	20	
1,2-Dichloroethane (Ethylene dichloride)	45.8	µg/kg-dry	6.40	50	<6.40	91.6	58.9-137	2.82	20	
1,3-Dichlorobenzene (m-Dichlorobenzene)	37.9	µg/kg-dry	6.40	50	<6.40	75.6	42.5-150	0.955	20	
1,4-Dichlorobenzene (p-Dichlorobenzene)	39.3	µg/kg-dry	6.40	50	<6.40	78.5	52.1-137	3.07	20	
Benzene	45.2	µg/kg-dry	6.40	50	<6.40	90.2	35.8-162	7.56	20	
Carbon tetrachloride	45.2	µg/kg-dry	6.40	50	<6.40	90.5	53.2-137	11.5	20	
Chlorobenzene	42.1	µg/kg-dry	6.40	50	<6.40	84.1	65.6-137	4.28	20	
Chloroform	43.2	µg/kg-dry	6.40	50	<6.40	85.4	63.6-147	5.88	20	
cis-1,2-Dichloroethylene	45.4	µg/kg-dry	6.40	50	<6.40	90.7	52.9-138	6.93	20	
Ethylbenzene	42.2	µg/kg-dry	6.40	50	<6.40	84.2	57.5-134	7.56	20	
m+p-Xylene	86.7	µg/kg-dry	12.8	100	<12.8	86.6	56.4-135	5.71	20	
Styrene	38.6	µg/kg-dry	6.40	50	<6.40	77.2	60.9-135	5.82	20	
Tetrachloroethylene (Perchloroethylene)	39.8	µg/kg-dry	6.40	50	<6.40	79.6	28.3-109	5.99	20	
Toluene	43.3	µg/kg-dry	6.40	50	<6.40	86.1	67.7-135	9.42	20	
Trichloroethene (Trichloroethylene)	45.0	µg/kg-dry	6.40	50	<6.40	90.0	56.5-136	13.0	20	
Surr: 4-Bromofluorobenzene	***49.2***	*µg/kg-dry*		50		98.4	*78.9-128*	0.571	30	
Surr: Dibromofluoromethane	***51.2***	*µg/kg-dry*		50		102	*79.1-140*	0.156	30	
Surr: Toluene-d8	***50.0***	*µg/kg-dry*		50		100	*84.5-124*	3.51	30	

The following samples were analyzed in this batch: CC2502268-001, CC2502268-002, CC2502268-003, CC2502268-005

Field Chain-of-Custody Record

Page 1 of 1

097030

REV 5/2024

ALS Environmental
4388 Glendale Milford Rd.
Cincinnati, Ohio 45242
Phone: (513) 733-5336
Fax: (513) 733-5347

Ship To:

REGULAR Status ☑ RUSH Status ☐ RESULTS REQUIRED BY: (Date) _____
CONTACT ALS ENVIRONMENTAL PRIOR TO SENDING SAMPLES

OH VAP: ☐ YES ☑ NO BUSTR: ☐ YES ☐ NO

Date: April 7 2025
Company Name: AGS LLC
Address: 259 N. King St
Xenia OH 45385
City State Zip
Person to Contact: Ed Council
Email Address: ECOUNCIL@ADVGEOSCI.COM
Telephone ( ): 937-371-8698
Alternate Contact:

Purchase Order No.:
Project No.: Kenton Ohio RMR
Sampling Site: Kenton Ohio
Billing Address (if different):

ALS Lab ID	Sample ID / Description	Date	Time	Preservation Key #	Sample Type / Matrix Key Abbr.	# of Sample Containers	VOCs	SVOCs	TPH GRO DRO ORO C9-C44
	SB-1 (8-12)	4/4/25	10:00A	9	S	2			
	SB-2 (6-8)		10:30A						
	SB-3 (8-10)		10:59A						
	SB-4 (8-10)		11:20A						
	SB-5 (4-6)		11:46A						
	SB-6 (6-10)		12:10P						

Environmental Division Cincinnati
Work Order Reference
CC2502268
Telephone : +1 513 733 5336

Notes:

Preservation Key: 1 - HCl 2 - HNO_3 3 - H_2SO_4 4 - NaOH 5 - $Na_2S_2O_3$ 6 - $NaHSO_4$ 7 - NaOH/ZnAcetate 8 - Other 9 - 4°C

Matrix Key: A - Air B - Bulk S - Soil W - Water

Relinquished By: (Signature) Print Edward Council	Time / Date 4/7/ 9:00M	Received By: (Signature) Print	Time / Date 4-7-25 1030
Relinquished By: (Signature) Print	Time / Date	Received By: (Signature) Print	Time / Date
Relinquished By: (Signature) Print	Time / Date	Received By: (Signature) Print	Time / Date

ALS LAB USE ONLY

ICE: ☑ YES ☐ NO COOLER TEMP: 2.6 °C TAKEN WITH IR#: 170787

COOLING METHOD: NONE COOLER WET ICE DRY ICE ICE PACK

DELIVERY METHOD: CLIENT DROP BOX FEDEX UPS STD MAIL PRTY MAIL ALS COURIER OTHER: _____

CUSTODY SEALS: NOT REQUIRED COOLER PACKAGE SAMPLES

pH ADJUSTMENTS:

Appendix D

Project Plan Sheets

STATE OF OHIO
DEPARTMENT OF TRANSPORTATION

HAR-US68/SR31-ROUNDABOUT

CITY OF KENTON
HARDIN COUNTY, OHIO

LOCATION MAP

LATITUDE: 40° 38' 33" LONGITUDE: 83° 36' 33"

N

SCALE IN FEET

0 500 1000 1500 2000 2500 3000

PORTION TO BE IMPROVED _____
STATE & FEDERAL ROUTES _____
OTHER ROADS _____

DESIGN DESIGNATION	NORTH U.S. 68 (DETROIT ST.)	SOUTH U.S. 68 (DETROIT ST.)	NORTH S.R. 31 (MAIN ST.)	SOUTH S.R. 31 (MAIN ST.)
CURRENT ADT (2027)	7300	4700	6800	9700
DESIGN YEAR ADT (2047)	8100	5200	7500	10700
DESIGN HOURLY VOLUME (2047)	810	520	675	963
DIRECTIONAL DISTRIBUTION	0.54	0.54	0.55	0.55
TRUCKS (24 HOUR B&C)	740	740	1375	1375
DESIGN SPEED	30 MPH	30 MPH	30 MPH	30 MPH
LEGAL SPEED	25 MPH	25 MPH	25 MPH	25 MPH

DESIGN FUNCTIONAL CLASSIFICATION:
DETROIT STREET (U.S. 68): 04 - MINOR ARTERIAL (URBAN)
MAIN STREET (S.R. 31): 04 - MINOR ARTERIAL (URBAN)
NHS PROJECT _____ NO

DESIGN EXCEPTIONS: NONE REQUIRED
ADA DESIGN WAIVERS: NONE REQUIRED

INDEX OF SHEETS:

FEDERAL PROJECT NO.
E240 (491)

RAILROAD INVOLVEMENT
NONE

PROJECT DESCRIPTION

PROJECT CONSISTS OF THE CONSTRUCTION OF A ROUNDABOUT ALONG PERRY STREET TO PROVIDE CONNECTION BETWEEN DETROIT STREET (U.S. 68) AND MAIN STREET (S.R. 31) FOR CONGESTION RELIEF. THE PROJECT ALSO INCLUDES PEDESTRIAN IMPROVEMENTS, STORM SEWER UPGRADES, AND PUBLIC UTILITY INCIDENTALS TO GO ALONG WITH SIGNAL UPGRADES ALONG DETROIT STREET AT FRANKLIN AND COLUMBUS STREETS.

EARTH DISTURBED AREAS

PROJECT EARTH DISTURBED AREA:	2.8 ACRES
ESTIMATED CONTRACTOR E.D.A.:	0.2 ACRES
NOTICE OF INTENT E.D.A.:	3.0 ACRES

2023 SPECIFICATIONS

THE STANDARD SPECIFICATIONS OF THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION, INCLUDING SUPPLEMENTAL SPECIFICATIONS LISTED IN THE PLANS AND CHANGES LISTED IN THE PROPOSAL SHALL GOVERN THIS IMPROVEMENT.

I HEREBY APPROVE THESE PLANS AND DECLARE THAT THE MAKING OF THIS IMPROVEMENT WILL REQUIRE THE CLOSING TO TRAFFIC OF THE HIGHWAY AND THAT DETOURS WILL BE PROVIDED AS INDICATED ON SHEET XX.

STAGE 2 SUBMISSION
MARCH 25, 2025

UNDERGROUND UTILITIES
Contact Two Working Days Before You Dig
OHIO811.org Before You Dig
OHIO811, 8-1-1, or 1-800-362-2764
(Non-members must be called directly)

PLAN PREPARED BY:

ChoiceOne Engineering
440 E. HOEWISHER ROAD • SIDNEY, OHIO 45365 • 937.497.0200
8956 GLENDALE MILFORD ROAD, SUITE 1 • LOVELAND, OHIO 45140 • 513.239.8554
www.CHOICEONEENGINEERING.com

** DATES FOR STANDARD DRAWINGS AND SUPPLMENTAL SPECIFICATIONS TO BE COMPLETED AT FINAL TRACINGS **

OHIO DEPARTMENT OF TRANSPORTATION STANDARD CONSTRUCTION DRAWINGS									SUPPLEMENTAL SPECIFICATIONS		SPECIAL PROVISIONS	
AS-1-81 (ARCHIVED)	7-19-02	DM-4.4	XX-XX-XX	MGS-1.1	XX-XX-XX	RM-6.1	XX-XX-XX		800	XX-XX-XX	XX-XX.XX	XX-XX-XX
				MGS-2.1	XX-XX-XX				809	XX-XX-XX		
		HL-10.11	XX-XX-XX	MGS-4.2	XX-XX-XX	TC-16.22	XX-XX-XX		813	XX-XX-XX		
BP-3.1	XX-XX-XX	HL-10.12	XX-XX-XX			TC-21.21	XX-XX-XX		815	XX-XX-XX		
BP-4.1	XX-XX-XX	HL-10.13	XX-XX-XX	MH-3	XX-XX-XX	TC-22.20	XX-XX-XX		816	XX-XX-XX		
BP-5.1	XX-XX-XX	HL-20.11	XX-XX-XX			TC-41.20	XX-XX-XX		832	XX-XX-XX		
BP-7.1	XX-XX-XX	HL-30.11	XX-XX-XX	MT-95.31	XX-XX-XX	TC-41.30	XX-XX-XX		895	XX-XX-XX		
		HL-30.22	XX-XX-XX	MT-97.10	XX-XX-XX	TC-41.40	XX-XX-XX		906	XX-XX-XX		
CB-2-2B	XX-XX-XX	HL-40.10	XX-XX-XX	MT-97.12	XX-XX-XX	TC-41.41	XX-XX-XX		909	XX-XX-XX		
CB-3	XX-XX-XX	HL-40.20	XX-XX-XX	MT-101.60	XX-XX-XX	TC-42.20	XX-XX-XX		913	XX-XX-XX		
CB-3A	XX-XX-XX	HL-60.11	XX-XX-XX	MT-101.90	XX-XX-XX	TC-52.10	XX-XX-XX		916	XX-XX-XX		
CB-6	XX-XX-XX	HL-60.31	XX-XX-XX	MT-105.10	XX-XX-XX	TC-52.20	XX-XX-XX		995	XX-XX-XX		
				MT-110.10	XX-XX-XX	TC-61.30	XX-XX-XX					
DM-1.1	XX-XX-XX	HW-2.1	XX-XX-XX			TC-71.10	XX-XX-XX					
DM-1.2	XX-XX-XX	HW-2.2	XX-XX-XX	RM-1.1	XX-XX-XX	TC-74.10	XX-XX-XX					
DM-3.1	XX-XX-XX			RM-5.1	XX-XX-XX							

ENGINEERS SEAL
FOR LIGHTING PLAN
STATE OF OHIO ALLAN J HEITBRINK 82274 REGISTERED PROFESSIONAL ENGINEER
SIGNED: _____
DATE: _____

ENGINEERS SEAL
FOR ENTIRE PLAN EXCEPT LIGHTING
STATE OF OHIO DANE M. SOMMER 80115 REGISTERED PROFESSIONAL ENGINEER
SIGNED: _____
DATE: _____

TITLE SHEET

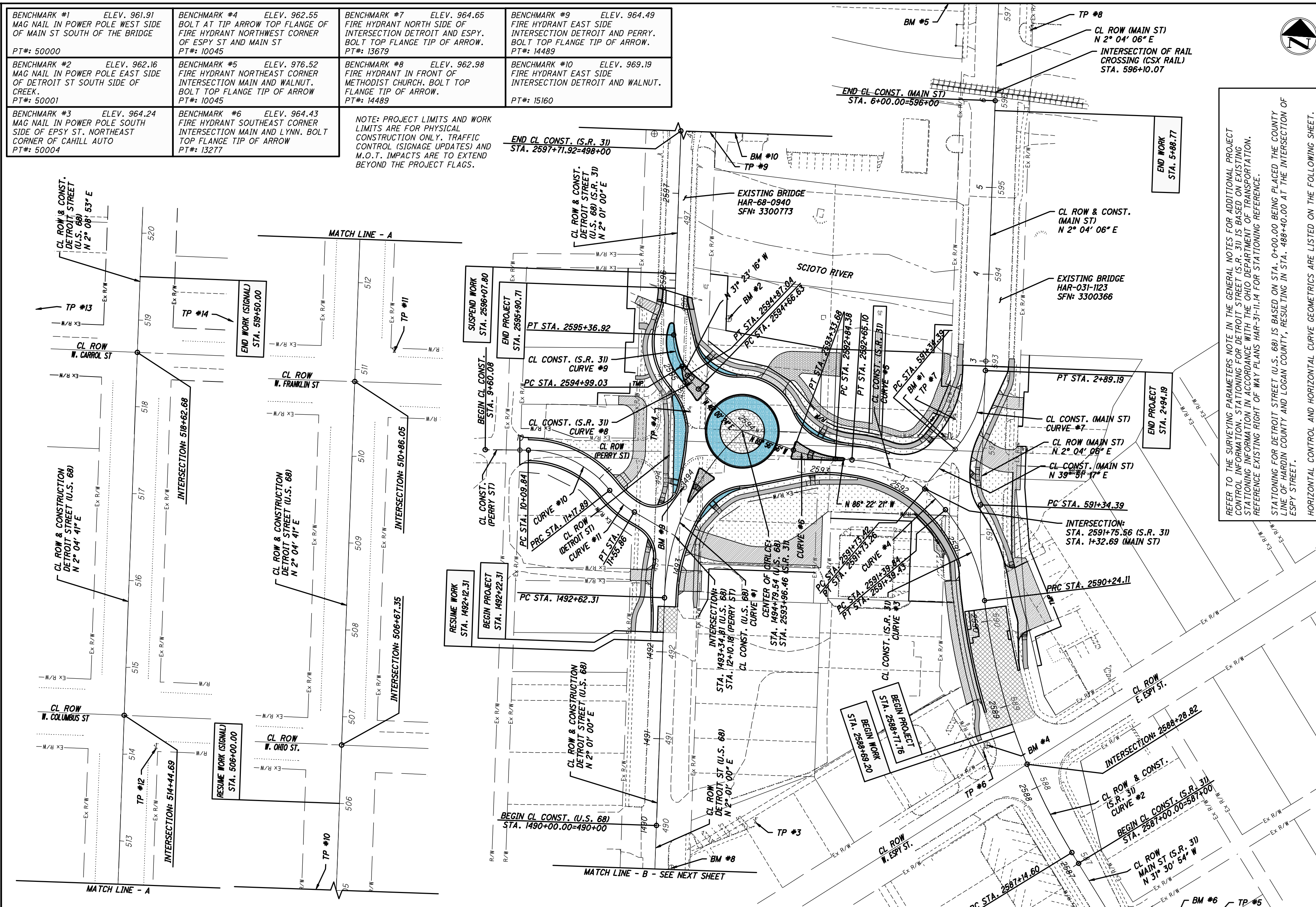
DESIGN AGENCY
CHOICE ONE ENGINEERING
DESIGNER DMS
REVIEWER AJH 3-2025
PROJECT ID 121008
SHEET P:1 TOTAL 93

HAR-US68/SR31-ROUNDABOUT
Z:\project\Hardin\Kenton\HAR-KEN-2311_SR31-US68_Bypass\121008_GT.dwg 24-Mar-25 8:01 AM

SCHEMATIC PLAN

BENCHMARK #1 ELEV. 961.91 MAG NAIL IN POWER POLE WEST SIDE OF MAIN ST SOUTH OF THE BRIDGE PT#: 50000	BENCHMARK #4 ELEV. 962.55 BOLT AT TIP ARROW TOP FLANGE OF FIRE HYDRANT NORTHWEST CORNER OF ESPY ST AND MAIN ST PT#: 10045	BENCHMARK #7 ELEV. 964.65 FIRE HYDRANT NORTH SIDE OF INTERSECTION DETROIT AND ESPY. BOLT TOP FLANGE TIP OF ARROW. PT#: 13679	BENCHMARK #9 ELEV. 964.49 FIRE HYDRANT EAST SIDE INTERSECTION DETROIT AND PERRY. BOLT TOP FLANGE TIP OF ARROW. PT#: 14489
BENCHMARK #2 ELEV. 962.16 MAG NAIL IN POWER POLE EAST SIDE OF DETROIT ST SOUTH SIDE OF CREEK. PT#: 50001	BENCHMARK #5 ELEV. 976.52 FIRE HYDRANT NORTHEAST CORNER INTERSECTION MAIN AND WALNUT. BOLT TOP FLANGE TIP OF ARROW PT#: 10045	BENCHMARK #8 ELEV. 962.98 FIRE HYDRANT IN FRONT OF METHODIST CHURCH. BOLT TOP FLANGE TIP OF ARROW. PT#: 14489	BENCHMARK #10 ELEV. 969.19 FIRE HYDRANT EAST SIDE INTERSECTION DETROIT AND WALNUT. PT#: 15160
BENCHMARK #3 ELEV. 964.24 MAG NAIL IN POWER POLE SOUTH SIDE OF EPSY ST. NORTHEAST CORNER OF CAHILL AUTO PT#: 50004	BENCHMARK #6 ELEV. 964.43 FIRE HYDRANT SOUTHEAST CORNER INTERSECTION MAIN AND LYNN. BOLT TOP FLANGE TIP OF ARROW PT#: 13277		

NOTE: PROJECT LIMITS AND WORK LIMITS ARE FOR PHYSICAL CONSTRUCTION ONLY. TRAFFIC CONTROL (SIGNAGE UPDATES) AND M.O.T. IMPACTS ARE TO EXTEND BEYOND THE PROJECT FLAGS.



HORIZONTAL SCALE IN FEET
REFER TO THE SURVEYING PARAMETERS NOTE IN THE GENERAL NOTES FOR ADDITIONAL PROJECT CONTROL INFORMATION. STATIONING FOR DETROIT STREET (S.R. 31) IS BASED ON EXISTING STATIONING INFORMATION IN ACCORDANCE WITH THE OHIO DEPARTMENT OF TRANSPORTATION. REFERENCE EXISTING RIGHT OF WAY PLANS HAR-31-11.14 FOR STATIONING REFERENCE.

STATIONING FOR DETROIT STREET (U.S. 68) IS BASED ON STA. 0+00.00 BEING PLACED THE COUNTY LINE OF HARDIN COUNTY AND LOGAN COUNTY, RESULTING IN STA. 488+40.00 AT THE INTERSECTION OF ESPY STREET.

HORIZONTAL CONTROL AND HORIZONTAL CURVE GEOMETRICS ARE LISTED ON THE FOLLOWING SHEET.

HAR-US68/SR31-ROUNDABOUT

Z:\project\Hardin\Kenton\HAR-KEN-2311_SR31-US68_Bypass\121008_GB.dwg 24-Mar-25 8:02 AM

DESIGN AGENCY: CHOICE ONE ENGINEERING
DESIGNER: DMS
REVIEWER: AJH 3-2025
PROJECT ID: 121008
SHEET P:2 TOTAL 93

GENERAL
THE STANDARD SPECIFICATIONS OF THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION (WITH ADJUSTMENTS TO MEET CITY OF KENTON STANDARDS), INCLUDING SUPPLEMENTAL SPECIFICATIONS LISTED IN THE PLANS AND CHANGES IN THE PROPOSAL SHALL GOVERN THIS IMPROVEMENT.

ROUNDING
A MINIMUM OF 4.0' OF ROUNDING SHALL BE USED AT ALL GRADING TIE-IN LOCATIONS AND AT SLOPE BREAKPOINTS SHOWN ON THE TYPICAL SECTIONS. EVEN THOUGH OTHERWISE SHOWN, THE ROUNDING APPLIES TO ALL TYPICAL SECTIONS AND CROSS-SECTIONS IN THIS PLAN SET.

MODIFICATIONS
ANY MODIFICATIONS TO THE SPECIFICATIONS OR CHANGES TO THE WORK AS SHOWN ON THE DRAWINGS MUST HAVE PRIOR WRITTEN APPROVAL BY THE CITY.

CONTRACT WORK PERFORMED BY THE CITY
IF THE CONTRACTOR REFUSES OR FAILS TO PERFORM WORK OF ANY IMMEDIATE NATURE SUCH AS THE PLACEMENT OF BARRICADES, REPLACEMENT OF SIGNS OR OTHER DEVICES REQUIRED BY THIS CONTRACT IN A REASONABLE TIME, THE CITY WILL PERFORM THE NECESSARY WORK. THE CONTRACTOR SHALL REIMBURSE THE CITY AT THE RATE OF 2.5 TIMES THE ACTUAL COST OF LABOR, MATERIALS, AND EQUIPMENT NECESSARY TO PERFORM SUCH WORK. THE CITY SHALL NOTIFY OR ATTEMPT TO NOTIFY THE CONTRACTOR OF THE NECESSITY TO PERFORM SUCH WORK. THE CITY SHALL BE REIMBURSED BY A DEDUCTION FROM THE CONTRACTOR'S NEXT PAYMENT UNDER THE CONTRACT. REASONABLE TIME FOR ALL STREETS INVOLVED ON THIS CONTRACT IS 1 HOUR FROM THE TIME OF NOTIFICATION BY THE CITY.

WORK LIMITS
THE WORK LIMITS SHOWN ON THESE PLANS ARE FOR PHYSICAL CONSTRUCTION ONLY. PROVIDE THE INSTALLATION AND OPERATION OF ALL WORK ZONE TRAFFIC CONTROL AND WORK ZONE TRAFFIC CONTROL DEVICES REQUIRED BY THESE PLANS WHETHER INSIDE OR OUTSIDE THESE WORK LIMITS.

CONSTRUCTION NOISE
ACTIVITIES AND LAND USE ADJACENT TO THIS PROJECT MAY BE AFFECTED BY CONSTRUCTION NOISE. IN ORDER TO MINIMIZE ANY ADVERSE CONSTRUCTION NOISE IMPACTS, DO NOT OPERATE POWER-OPERATED CONSTRUCTION TYPE-DEVICES BETWEEN THE HOURS OF 7:00 PM AND 7:00 AM. IN ADDITION, DO NOT OPERATE AT ANY TIME ANY DEVICE IN SUCH A MANNER THAT THE NOISE CREATED SUBSTANTIALLY EXCEEDS THE NOISE CUSTOMARILY AND NECESSARILY ATTENDANT TO THE REASONABLE AND EFFICIENT PERFORMANCE OF SUCH EQUIPMENT.

UNDERGROUND UTILITIES
THE LOCATIONS OF THE UNDERGROUND UTILITIES SHOWN ON THE PLANS ARE AS OBTAINED FROM THE OWNERS OF THE UTILITY AS REQUIRED BY SECTION 153.64 ORC. EXISTING UTILITIES ARE SHOWN IN THEIR APPROXIMATE LOCATION ACCORDING TO THE BEST AVAILABLE DATA. THE CONTRACTOR WILL BE RESPONSIBLE FOR LOCATING THEM IN THE FIELD PRIOR TO CONSTRUCTION AND WILL BE RESPONSIBLE FOR ANY DAMAGE DONE TO THEM. CONTRACTOR TO CONTACT OHIO UTILITIES PROTECTION SERVICE (1-800-362-2764) 48 HOURS PRIOR TO CONSTRUCTION.

NON-MEMBERS MUST BE CALLED DIRECTLY.

UTILITY STATEMENT
THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND EXISTING DRAWINGS. CHOICE ONE ENGINEERING CORPORATION MAKES NO GUARANTEES THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN-SERVICE OR ABANDONED. FURTHER, CHOICE ONE ENGINEERING CORPORATION DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED. ALTHOUGH CHOICE ONE ENGINEERING CORPORATION DID LOCATE AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE. CHOICE ONE ENGINEERING CORPORATION HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES.

UTILITIES
LISTED BELOW ARE ALL UTILITIES LOCATED WITHIN THE PROJECT CONSTRUCTION LIMITS TOGETHER WITH THEIR RESPECTIVE OWNERS:

ELECTRIC
AEP OHIO (DISTRIBUTION)
209 NORTH WOOD STREET
FOSTORIA, OHIO 45772
ATTN: BRIAN FRANKS
PH: 419-619-6019
BLFRANKS@AEP.COM

CABLE
WINDSTREAM COMMUNICATIONS
66 N. FOURTH ST.
P.O. BOX 3005
NEWARK, OHIO 43058-3005
ATTN: ASH RAI
PH: 606-784-4140
ASH.RAI@WINDSTREAM.COM

WATER
CITY OF KENTON
501 WATERWORKS DR
KENTON, OHIO 43326
ATTN: DALE ALBERT
PH: 419-673-0175
KWTP@WINDSTREAM.NET

STORM & SANITARY
CITY OF KENTON
555 W. FRANKLIN STREET
KENTON, OHIO 43326
ATTN: BURL HELTON
PH: 419-674-4850
CITYSTREETS@CITYOFKENTON.COM

COMMUNICATIONS
ZAYO FIBER SOLUTIONS
722 N. HIGH SCHOOL RD.
INDIANAPOLIS, IN 46214
ATTN: WAYLON HIGGINS
PH: 765-341-1199
WAYLON.HIGGINS@ZAYO.COM

COMMUNICATIONS
SPECTRUM-HARDIN COUNTY
3760 INTERCHANGE ROAD
COLUMBUS, OHIO 43204
ATTN: JEFFREY MARIANO
PH: 614-255-2827
JEFFREY.MARIANO@CHARTER.COM

GAS - DISTRIBUTION
ENBRIDGE
320 SPRINGSIDE DRIVE
AKRON, OHIO 44333
ATTN: SHELLEY BANAS
PH: 330-203-2799
SHELLEY.L.BANAS@DOMINIONENERGY.COM

COMMUNICATIONS
AT&T TRANSMISSION
(MCG UTILITIES)
450 W. WILSON BRIDGE RD
WORTHINGTON, OHIO 43085
ATTN: JEREMY PERDUE
PH: 440-610-7457
JEREMY.PERDUE@MCGUTILITIES.COM

COMMUNICATIONS
CROWN CASTLE
470-B SCHROCK RD (STE B)
COLUMBUS, OHIO 43229
ATTN: CRAIG SNELL
PH: 585-445-5813
CRAIG.SNELL@CROWNCASTLE.COM

THE LOCATIONS OF THE UNDERGROUND UTILITIES SHOWN ON THE PLANS ARE AS OBTAINED FROM THE OWNERS AS REQUIRED BY SECTION 153.64 O.R.C.

UTILITY INTERFERENCE
IF, DURING CONSTRUCTION, INTERFERENCE ARISES WITH EXISTING UTILITIES, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE UTILITY COMPANY INVOLVED. ANY AND ALL WORK REQUIRED FRO PUBLIC OR PRIVATE UTILITIES WILL BE DONE BY AND AT THE EXPENSE OF THEIR RESPECTIVE OWNERS, UNLESS OTHERWISE NOTED ON THESE PLANS. THE CONTRACTOR SHALL NOTIFY, AT LEAST 7 DAYS BEFORE BREAKING GROUND, ALL PUBLIC SERVICE COMPANIES HAVING WIRES, POLES, PIPES, CONDUITS, MANHOLES, OR OTHER STRUCTURES THAT MAY BE AFFECTED BY THIS OPERATION, INCLUDING ALL STRUCTURES WHICH ARE AFFECTED AND NOT SHOWN ON THESE PLANS. THERE WILL BE NO DELAYS ALLOWED FOR UTILITY INTERFERENCES.

LOCATION, SUPPORT, PROTECTION, AND RESTORATION OF ALL UTILITIES AND STRUCTURES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE METHOD OF SUPPORT OR PROTECTION MUST BE APPROVED BY THE APPROPRIATE UTILITY COMPANY AND IF THE FACILITY IS DAMAGED BY THE CONTRACTOR, ALL REPAIRS SHALL BE MADE BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.

UTILITY INTERFERENCE (CONTINUED)
THE CONTRACTOR IS HEREBY ADVISED THAT ALL UTILITY COMPANIES AFFECTED BY THIS PROJECT MAY BE WORKING CONCURRENTLY WITHIN THE PROJECT LIMITS. NO ADDITIONAL COMPENSATION WILL BE MADE TO THE CONTRACTOR FOR COORDINATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION WITH THE UTILITY COMPANIES.

SURVEYING PARAMETERS
PRIMARY PROJECT CONTROL MONUMENTS GOVERN ALL POSITIONING ON ODOT PROJECTS. SEE THE SCHEMATIC PLAN WITHIN THIS SET FOR A TABLE CONTAINING PROJECT CONTROL INFORMATION.

USE THE FOLLOWING PROJECT CONTROL, VERTICAL POSITIONING, AND HORIZONTAL POSITIONING PARAMETERS FOR ALL SURVEYING:

PROJECT CONTROL

POSITIONING METHOD: ODOT VRS
MONUMENT TYPE: TRAVERSE MAG NAIL

VERTICAL POSITIONING

ORTHOMETRIC HEIGHT DATUM: NAVD88
GEOID: GEOID 18

HORIZONTAL POSITIONING

REFERENCE FRAME: NAD83 (CORS 2011 ADJUSTMENT)
ELLIPSOID: GRS 80
MAP PROJECTION: LAMBERT CONFORMAL CONIC
COORDINATE SYSTEM: OCCS-HARDIN COUNTY
COMBINED SCALE FACTOR: 1.000042
CENTRAL LATITUDE: N40°-45'-00"
CENTRAL LONGITUDE: W83°-36'-00"
FALSE NORTHING: 100,000 METERS
FALSE EASTING: 50,000 METERS

USE THE POSITIONING METHODS AND MONUMENT TYPE USED IN THE ORIGINAL SURVEY TO RESTORE ALL MONUMENTS RELATED TO PRIMARY PROJECT CONTROL THAT ARE DAMAGED OR DESTROYED BY CONSTRUCTION ACTIVITIES. RESTORE THE DAMAGED OR DESTROYED MONUMENTS IN ACCORDANCE WITH CMS 623.

UNITS ARE U.S. SURVEY FEET.
CONVERSION FACTOR: 1 METER = 3.280833333 U.S. SURVEY FT

PROTECTION OF RIGHT-OF-WAY LANDSCAPING
PRIOR TO BEGINNING WORK, THE CONTRACTOR, THE PROJECT ENGINEER, AND A REPRESENTATIVE OF THE CITY OF KENTON WILL REVIEW AND RECORD ALL LANDSCAPING ITEMS WITHIN THE RIGHT-OF-WAY (BOTH WITHIN AND OUTSIDE THE CONSTRUCTION LIMITS). A RECORD OF THIS REVIEW WILL BE KEPT IN THE PROJECT ENGINEER'S FILES. PRIOR TO FINAL ACCEPTANCE, A FINAL REVIEW OF LANDSCAPING ITEMS, INCLUDING PRIVATE SIGNS, WILL BE MADE. THE CONTRACTOR SHALL BE RESPONSIBLE IN RESTORING ANY EXISTING LANDSCAPING OR SIGNAGE NOT MEANT FOR REMOVAL THAT IS DAMAGED DURING CONSTRUCTION WHETHER INSIDE OR OUTSIDE OF THE CONSTRUCTION LIMITS.

CONSTRICT ALL ACTIVITIES, EQUIPMENT STORAGE, AND STAGING TO WITHIN THE CONSTRUCTION LIMITS.

SUBMIT A WRITTEN REQUEST TO THE PROJECT ENGINEER AND CITY TO USE ANY AREA OUTSIDE THE CONSTRUCTION LIMITS. THE DOCUMENT SUBMITTED MUST CLEARLY IDENTIFY THE AREA AND EXPLAIN THE PROPOSED USE AND RESTORATION OF THE AREA. UNLESS OTHERWISE APPROVED PER REQUEST, USE OF AREAS OUTSIDE OF THE CONSTRUCTION LIMITS FOR DISPOSAL OF WASTE MATERIAL AND CONSTRUCTION DEBRIS, EXCAVATION OF BORROW MATERIAL AND PLACEMENT OF PORTABLE PLANTS IS PROHIBITED.

PROTECTION OF RIGHT-OF-WAY LANDSCAPING (CONT.)
THE REQUEST MUST BE APPROVED, IN WRITING, BEFORE THE CONTRACTOR HAS PERMISSION TO USE THE DESIRED AREA.

ANY ITEMS DAMAGED BEYOND THE CONSTRUCTION LIMITS, AS DEFINED ABOVE AND SHOWN IN THE PLANS, WILL BE REPLACED IN KIND OR AS APPROVED BY THE PROJECT ENGINEER.

PROPERTY POINTS AND SURVEY MONUMENTS
CARE SHALL BE TAKEN BY THE CONTRACTOR TO SAFEGUARD ANY PROPERTY POINTS OR OTHER SURVEY REFERENCE MARKS ENCOUNTERED DURING CONSTRUCTION OF THIS PROJECT. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RESET ANY PROPERTY POINT OR SURVEY MONUMENT WHICH IS DISTURBED AS A RESULT OF CONSTRUCTION OF THIS PROJECT. THE PROPERTY POINTS AND SURVEY MONUMENTS SHALL BE RESET UNDER THE SUPERVISION OF A REGISTERED PROFESSIONAL SURVEYOR.

PAYMENT FOR THIS ITEM SHALL BE INCLUDED IN THE RELATIVE 623 BID ITEMS (LUMP SUMS).

DEWATERING, COFFERDAMS, AND BY-PASS PUMPING
ANY DEWATERING, COFFERDAMS, OR PUMPING NECESSARY FOR THE CONSTRUCTION OF ANY ITEMS SHALL BE INCIDENTAL TO THOSE PARTICULAR CONSTRUCTION ITEMS. NO ADDITIONAL PAYMENT WILL BE ALLOWED.

NONRUBBER TIRE VEHICLES
NO NONRUBBER TIRE VEHICLES SHALL BE MOVED ON CITY STREETS. EXCEPTIONS MAY BE GRANTED BY THE CITY WHERE SHORT DISTANCE, SPECIAL CIRCUMSTANCES, OR COMPLETE RECONSTRUCTION ARE TO OCCUR. GRANTING OF EXCEPTIONS MUST BE IN WRITING AND ANY RESULTING DAMAGE MUST BE REPAIRED TO THE SATISFACTION OF THE CITY. THE CONTRACTOR SHALL USE EXTREME CARE WHEN OPERATING NONRUBBER TIRE VEHICLES ON STREETS OR DRIVEWAYS TO AVOID MARKING OR DAMAGING THE PAVEMENT. PROTECTION OF THE PAVEMENT FROM DAMAGE RESULTING FROM THE TRACKS OF NONRUBBER TIRE VEHICLES UTILIZED IN TRENCH EXCAVATION SHALL BE REQUIRED. A WOOD PLANK SYSTEM, USED TIRES, RUBBER MATS, OR OTHER MEANS AS APPROVED BY THE CITY SHALL USED TO PROTECT THE PAVEMENT. THE COST OF THIS WORK SHALL BE INCLUDED IN THE UNIT BID PRICE FOR THE VARIOUS ITEMS OF THE CONTRACT.

SUBCONTRACTOR SUPERVISION
THE CONTRACTOR IS REQUIRED TO HAVE A PROJECT SUPERVISOR ON-SITE TO SUPERVISE THE SUBCONTRACTOR FOR QUALITY CONTROL PURPOSES AND TO PROVIDE ANY NECESSARY ASSISTANCE TO THE SUBCONTRACTOR TO ENSURE QUALITY WORK.

COST OF THIS ITEM SHALL BE INCLUDED IN THE COST OF RELATED PAY ITEMS OF THIS PROJECT.

SAFETY
THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR COMPLYING WITH ALL FEDERAL, STATE, AND LOCAL SAFETY REQUIREMENTS, TOGETHER WITH EXERCISING PRECAUTIONS AT ALL TIMES FOR THE PROTECTION OF PERSONS (INCLUDING EMPLOYEES) AND PROPERTY. IT IS ALSO THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO INITIATE, MAINTAIN, AND SUPERVISE ALL SAFETY REQUIREMENTS, PRECAUTIONS, AND PROGRAMS IN CONNECTION WITH THE WORK.

MUD
THE TRACKING OR SPILLING OF MUD, DIRT, OR DEBRIS UPON CITY STREETS IS PROHIBITED AND ANY SUCH OCCURRENCE SHALL BE CLEANED UP IMMEDIATELY BY THE CONTRACTOR.

MISCELLANEOUS
COMPENSATION FOR THE WORK AS SHOWN ON THE PLANS SHALL BE AT THE UNIT PRICES INCLUDED ON THE BID PROPOSAL. NO SEPARATE PAYMENT WILL BE MADE FOR TASKS (NOT ALL INCLUSIVE) INCLUDING ITEMS SUCH AS RECORD DRAWINGS (IF REQUESTED) AND CONNECTIONS TO EXISTING FACILITIES.

CONTRACTOR IS RESPONSIBLE TO FILL OUT ALL NECESSARY CO-PERMITTEE PERMITS FOR THE OEPA STORMWATER NOI.

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DESIGN AGENCY
CHOICE ONE ENGINEERING
DESIGNER DMS
REVIEWER AJH 3-2025
PROJECT ID 121008
SHEET P.13 TOTAL 93

MONUNMENT ASSEMBLIES

CONSTRUCT MONUMENT ASSEMBLIES IN ACCORDANCE WITH THE DETAILS SHOWN ON THE STANDARD CONSTRUCTION DRAWINGS AND AT THE LOCATIONS SHOWN IN THE RIGHT OF WAY PLANS.

HAUL ROADS

WHEN PICKING A DUMP SITE, CONTRACTOR IS TO TAKE INTO CONSIDERATION THE HAUL ROAD ROUTE AND ANY NECESSARY ROADWAY REPAIR CAUSED BY HAULING TO THE DUMP SITE.

PRIOR TO HAULING EQUIPMENT OR MATERIALS, THE CONTRACTOR SHALL PROVIDE WRITTEN NOTIFICATION TO THE CITY OF THE SPECIFIC ROADS OR STREETS ON THE HAUL ROUTE. IF THE HAUL ROUTE INCLUDES ROADS AND STREETS THAT ARE NOT UNDER THE JURISDICTION AND CONTROL OF THE CITY OR OF THE STATE, THE CONTRACTOR MUST USE LOCAL ROADS AND STREETS THAT ARE NOT RESTRICTED BY LOCAL AUTHORITIES. IF IT IS DETERMINED BY THE CITY THAT THE HAUL ROADS USED TO HAUL EQUIPMENT AND MATERIALS TO THE DUMP SITE WERE DAMAGED FROM THIS OPERATION, THE CITY WILL ORDER THE CONTRACTOR TO PERFORM IMMEDIATE AND PRACTICAL REPAIRS TO ENSURE REASONABLY NORMAL TRAVELING CONDITIONS AND BRING PAVEMENT CONDITIONS BACK TO CONDITIONS EQUAL OR BETTER THAN PRE-OPERATION CONDITIONS AT THE CONTRACTOR'S EXPENSE. THE CONTRACTOR SHALL TAKE ALL THIS INTO CONSIDERATION WHEN PICKING A DUMP SITE.

THE CONTRACTOR SHALL NOT FILE A CLAIM FOR DELAYS OR OTHER IMPACTS TO THE WORK CAUSED BY DISPUTE WITH THE LOCAL AUTHORITIES REGARDING THE USE OF LOCAL ROADS OR STREETS AS HAUL ROADS. THE CONTRACTOR SHALL SAVE THE CITY AND THE STATE HARMLESS FOR ANY CLOSURES OR HAULING RESTRICTIONS OUTSIDE THE PROJECT LIMITS BEYOND THE CONTROL OF THE CITY OR ODOT.

SEALING COMPOUND

ALL EXPOSED CONCRETE SHALL HAVE A CURING AND SEALING COMPOUND APPLIED. THE CURING AND SEALING COMPOUND SHALL BE APPLIED IN 2 COATS. CURING AND SEALING COMPOUND AND COLOR TO BE APPROVED BY THE CITY BEFORE ANY CONCRETE WORK HAS BEGUN. FOR BIDDING PURPOSES, A WHITE COLORED CURING COMPOUND SHALL BE ASSUMED FOR ALL DRIVES, WALKS, CURBING AND OTHER CONCRETE OUTSIDE OF THE COLORED, STAMPED SPLITTER ISLAND LOCATIONS.

CAD FILE DISCLAIMER

THE CAD FILE ASSOCIATED WITH THESE CONSTRUCTION PLANS IS A NON-CERTIFIED DOCUMENT. ANY USE OF THE INFORMATION OBTAINED OR DERIVED FROM THE ASSOCIATED CAD FILE WILL BE AT THE RECEIVING PARTY/USER'S RISK. CHOICE ONE ENGINEERING CORPORATION OFFERS NO WARRANTY AS TO THE ACCURACY OF THE INFORMATION IN THE CAD FILE OR THAT REVISIONS HAVE BEEN ISSUED AFTER THE CAD DRAWING WAS RELEASED. RECEIVING PARTIES/USERS SHALL HOLD HARMLESS TO THE MAXIMUM EXTENT ALLOWED BY LAW CHOICE ONE ENGINEERING CORPORATION FROM ANY USE OF THE CAD FILE BY THE RECEIVING PARTY/USER. IN ALL CIRCUMSTANCES, AND AT ALL TIMES, THE PUBLISHED PAPER AND/OR PDF DRAWINGS FOR THE PROJECT SHALL SUPERSEDE THE CAD FILES. IN THE CASE OF AN INCONSISTENCY BETWEEN THE PUBLISHED PAPER/PDF DRAWINGS AND THE ASSOCIATED CAD FILE, THE PUBLISHED PAPER/PDF DRAWINGS SHALL GOVERN THE PROJECT AND ALL WORK.

REVIEW OF DRAINAGE FACILITIES

PRIOR TO THE START OF WORK AND AGAIN BEFORE FINAL ACCEPTANCE, PERFORM AN INSPECTION WITH REPRESENTATIVES OF THE DEPARTMENT, CONTRACTOR AND LOCALS OF ALL EXISTING DRAINAGE FACILITIES THAT ARE TO REMAIN IN SERVICE WHICH MAY BE AFFECTED BY THE WORK. THE CONDITION OF THE EXISTING CONDUITS AND THEIR APPURTENANCES IS DETERMINED FROM FIELD OBSERVATIONS. RECORDS OF THE INSPECTION ARE MAINTAINED BY THE CONSTRUCTION ENGINEER AND THE CITY.

CONFIRM ALL EXISTING SEWERS INSPECTED INITIALLY BY THE ABOVE-MENTIONED PARTIES ARE MAINTAINED AND LEFT IN A CONDITION COMPARABLE TO THAT DETERMINED BY THE ORIGINAL INSPECTION. THE CONTRACTOR IS RESPONSIBLE TO CORRECT ANY CHANGE IN THE CONDITION RESULTING FROM THEIR OPERATIONS AS DIRECTED AND APPROVED BY THE ENGINEER.

PAYMENT FOR ALL OPERATIONS DESCRIBED ABOVE IS INCLUDED IN THE CONTRACT PRICE FOR THE PERTINENT 611 CONDUIT ITEMS.

CROSSING AND CONNECTIONS TO EXISTING PIPES AND UTILITIES

WHERE PLANS PROVIDE FOR A PROPOSED CONDUIT TO BE CONNECTED TO, OR CROSS OVER OR UNDER AN EXISTING SEWER OR UNDERGROUND UTILITY, LOCATE THE EXISTING PIPES OR UTILITIES BOTH AS TO LINE AND GRADE BEFORE STARTING TO LAY THE PROPOSED CONDUIT.

IF IT IS DETERMINED THAT THE ELEVATION OF THE EXISTING CONDUIT, OR EXISTING APPURTENANCE TO BE CONNECTED DIFFERS FROM THE PLAN ELEVATION OR RESULTS IN A CHANGE IN THE PLAN CONDUIT SLOPE, NOTIFY THE ENGINEER BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED CONDUIT WHICH WILL BE AFFECTED BY THE VARIANCE IN THE EXISTING ELEVATIONS.

IF IT IS DETERMINED THAT THE PROPOSED CONDUIT WILL INTERSECT AN EXISTING SEWER OR UNDERGROUND UTILITY IF CONSTRUCTED AS SHOWN ON THE PLAN, NOTIFY THE ENGINEER BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED CONDUIT WHICH WOULD BE AFFECTED BY THE INTERFERENCE WITH AN EXISTING FACILITY.

PAYMENT FOR ALL OPERATIONS DESCRIBED ABOVE IS INCLUDED IN THE CONTRACT PRICE FOR THE PERTINENT 611 CONDUIT ITEM.

CLEAN WATER CONNECTIONS

ROOF DRAINS, FOUNDATION DRAINS, AND ALL OTHER CLEAN WATER CONNECTIONS TO THE SANITARY SYSTEM ARE PROHIBITED.

DRAINAGE DISCHARGE CONTINUANCE

FURNISH A DRAINAGE DISCHARGE CONTINUANCE FOR ANY DRAINAGE DISCHARGE DISTURBED BY THE WORK AND NOT SHOWN IN THE PLANS. THE LOCATION, TYPE (CONDUIT OR SWALE), SIZE AND GRADE OF THE DRAINAGE DISCHARGE CONTINUANCE WILL BE AGREED TO BY THE FIELD ENGINEER AND THE CITY.

FURNISH AN INSPECTION WELL AT THE RIGHT OF WAY LINE PER STANDARD CONSTRUCTION DRAWING DM-3.1 FOR EACH DRAINAGE DISCHARGE THAT OUTLETS THROUGH A CURB OPENING OR INTO A STORM SEWER OR DRAINAGE STRUCTURE. THE COST IS INCLUDED IN ITEM 611 - INSPECTION WELL.

FURNISH A WELL GRADED TRANSITION BETWEEN THE DITCH AND THE SWALE WHEN OUTLETTING A SWALE TO A DITCH. THE COST FOR THE GRADED TRANSITION IS INCLUDED IN ITEM 203 - EMBANKMENT, AS PER PLAN.

FURNISH AN EROSION CONTROL PAD AS SHOWN IN STANDARD CONSTRUCTION DRAWING DM-1.1 WHEN OUTLETTING A CONDUIT TO A DITCH. THE COST FOR THE EROSION CONTROL PAD IS INCLUDED IN ITEM 611 - CONDUIT, MISC. TYPE E FOR DRAINAGE DISCHARGE CONTINUANCE.

FURNISH A DRILLED HOLE OR A CURB SECTION WHEN OUTLETTING A CONDUIT THROUGH A CURB OPENING. THE COST OF DRILLING OR FURNISHING THE CURB SECTION WITH HOLE IS INCLUDED IN ITEM 611 - CONDUIT, MISC. TYPE E FOR DRAINAGE DISCHARGE CONTINUANCE.

FURNISH A DRILLED CORE HOLE WHEN OUTLETTING INTO A STORM SEWER OR DRAINAGE STRUCTURE. THE COST OF THE DRILLED CORE HOLE IS INCLUDED IN ITEM 611 - CONDUIT, MISC. TYPE E FOR DRAINAGE DISCHARGE CONTINUANCE.

DOCUMENTATION

PROVIDE WRITTEN DOCUMENTATION TO THE ENGINEER AND TO THE CITY OF KENTON. THE DOCUMENTATION INCLUDES THE CONSTRUCTION PROJECT NUMBER, PID, COUNTY, ROUTE, SECTION, LATITUDE AND LONGITUDE OF THE DRAINAGE DISCHARGE AT THE R/W, THE NAME OF PROPERTY OWNER WITH ADDRESS, THE DATE THE DRAINAGE DISCHARGE WAS LOCATED, THE DATE THE DRAINAGE DISCHARGE CONTINUANCE WAS FURNISHED, A DETAILED DESCRIPTION OF THE WORK AND PICTURES OF THE DRAINAGE DISCHARGE CONTINUANCE (IN PDF OR JPEG FORMAT). THE DOCUMENTATION IS INCLUDED IN ITEM 611 - CONDUIT, MISC. TYPE E FOR DRAINAGE DISCHARGE CONTINUANCE OR ITEM 203 - EMBANKMENT, AS PER PLAN.

DRAINAGE DISCHARGE CONTINUANCE (CONTINUED)

DRAINAGE DISCHARGE CONTINUANCE REMOVAL

THE ENGINEER MAY REQUIRE THE NEWLY INSTALLED DRAINAGE DISCHARGE CONTINUANCE TO BE REMOVED.

REMOVE THE NEWLY INSTALLED CONDUIT AND ANY EXISTING CONDUIT TO THE RIGHT OF WAY LINE. FOR CONDUIT THAT OUTLETS THROUGH THE CURB, RESTORE THE CURB BY FILLING THE HOLE WITH CLASS QC 1 CONCRETE OR REPLACE THE CURB SECTION. FOR CONDUIT THAT OUTLETS TO A STORM SEWER OR DRAINAGE STRUCTURE, LEAVE 6 INCHES PROTRUDING OUTSIDE OF THE CONDUIT. PLUG THE PROTRUDING CONDUIT WITH EITHER A MANUFACTURED CAP OR CLASS QC 1 CONCRETE. FOR CONDUIT THAT OUTLETS TO THE DITCH, REMOVE THE EROSION CONTROL PAD. RESTORE ALL AREAS AS REQUIRED. PLUG THE EXISTING CONDUIT REGARDLESS OF SIZE AT THE THE RIGHT OF WAY LINE WITH CLASS QC 1 CONCRETE AND RESTOR ALL AREAS AS REQUIRED. ALL COST ARE INCLUDED IN ITEM 202 - REMOVAL, MISC.: CONDUIT.

DAM THE SWALE THAT OUTLETS TO THE DITCH AT THE R/W AS DIRECTED BY THE ENGINEER. ALL COSTS ARE INCLUDED IN ITEM 203 - EMBANKMENT, AS PER PLAN. REMOVE THE INSPECTION WELL AND RESTORE ALL AREAS AS REQUIRED. THE COST IS INCLUDED IN ITEM 202 - REMOVAL, MISC.: INSPECTION WELL.

CONDUIT MATERIAL TYPES

THE FOLLOWING CONDUIT MATERIAL TYPES ARE PERMITTED: 707.33, 707.41 NON-PERFORATED, 707.42, 707.43, 707.45, 707.46, 707.47, AND 707.51.

PAY ITEMS

EACH OF THE PAY ITEMS LISTED BELOW FOR CONDUIT MISCELLANEOUS TYPE E FOR DRAINAGE DISCHARGE CONTINUANCE INCLUDE CONDUIT SIZES 2 INCH TO 10 INCH. THERE IS NO COST DIFFERENTIATION FOR SIZE IN THESE PAY ITEMS.

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY FOR USE AS DIRECTED BY THE ENGINEER IN MAKING THE ABOVE DRAINAGE DISCHARGE CONTINUANCE:

ITEM 611 - INSPECTION WELL	XX EACH
ITEM 611 - CONDUIT, MISC.: TYPE E FOR DRAINAGE DISCHARGE CONTINUANCE	XX FT
ITEM 202 - REMOVAL MISC: CONDUIT	XX FT
ITEM 202 - REMOVAL MISC: INSPECTION WELL	XX EACH
ITEM 203 - EMBANKMENT, AS PER PLAN	XX CY

POST CONSTRUCTION STORM WATER TREATMENT

THIS PLAN UTILIZES STRUCTURAL BEST MANAGEMENT PRACTICES (BMPS) FOR POST CONSTRUCTION STORM WATER TREATMENT.

MANUFACTURED WATER QUALITY STRUCTURE

THIS PLAN UTILIZES MANUFACTURED WATER QUALITY STRUCTURES FOR WATER QUALITY TREATMENT. AREAS ARE SHOWN IN THE PLANS FOR PLACEMENT OF AN OFF-LINE SYSTEM. PAYMENT FOR THIS DEVICE IS MADE AT THE CONTRACT UNIT PRICE FOR ITEM 895 - MANUFACTURED WATER QUALITY STRUCTURE, TYPE 3.

CLEARING AND GRUBBING

REMOVE ALL TREES AND STUMPS SPECIFICALLY MARKED FOR REMOVAL WITHIN THE CONSTRUCTION LIMITS UNDER THE LUMP SUM BID FOR ITEM 201 - CLEARING AND GRUBBING. THE FOLLOWING IS AN APPROXIMATE ESTIMATE OF THE NUMBER OF TREES AND STUMPS TO BE REMOVED:

SIZES	NO. TREES	NO. STUMPS	TOTAL
18"	XX	XX	XX
30"	XX	XX	XX
48"	XX	XX	XX
60"	XX	XX	XX

IN ADDITION, LOCATIONS IN THE PLANS MAY REQUIRE TREE REMOVAL WHERE INDIVIDUAL TREES ARE NOT MARKED. UNLESS SPECIFICALLY MARKED IN THE FIELD OR ON THE PLANS AS "DO NOT DISTURB", THE CONTRACTOR SHALL REMOVE ALL TREES AND STUMPS WITHIN THE CONSTRUCTION LIMITS UNDER THE LUMP SUM BID FOR ITEM 201 - CLEARING AND GRUBBING.

SEEDING AND MULCHING

THE FOLLOWING QUANTITIES ARE PROVIDED TO PROMOTE GROWTH AND CARE OF PERMANENT SEEDED AREAS:

ITEM 659 - TOPSOIL	XX CY
ITEM 659 - SEEDING AND MULCHING, CLASS 1	XX SY
ITEM 659 - REPAIR SEEDING AND MULCHING	XX SY
ITEM 659 - INTER-SEEDING	XX SY
ITEM 659 - COMMERCIAL FERTILIZER	XX TONS
ITEM 659 - LIME	XX ACRES
ITEM 659 - WATER	XX M. GAL

APPLY SEEDING AND MULCHING TO ALL AREAS OF EXPOSED SOIL BETWEEN THE RIGHT-OF-WAY LINES AND WITHIN THE CONSTRUCTION LIMITS FOR AREAS OUTSIDE THE RIGHT-OF-WAY LINES COVERED BY WORK AGREEMENTS OR SLOPE EASEMENTS. QUANTITY CALCULATIONS FOR SEEDING AND MULCHING ARE BASED ON THESE LIMITS.

CONTROL OF SPILLS

BEST CONSTRUCTION PRACTICES ARE TO BE IMPLEMENTED TO MINIMIZE WATER QUALITY IMPACTS. IDLE EQUIPMENT, PETROCHEMICALS, AND TOXIC/HAZARDOUS MATERIALS SHALL NOT BE STORED NEAR DRAINAGE WAYS, DITCHES, OR STREAMS. REFUELING SHALL NOT BE UNDERTAKEN NEAR DRAINAGE WAYS, DITCHES, OR STREAMS. A SPILL CONTAINMENT KIT IS TO BE MAINTAINED ON SITE THROUGHOUT CONSTRUCTION ACTIVITIES. SPILLS OF FUELS, OILS, CHEMICALS OR OTHER MATERIALS WHICH COULD POSE A THREAT TO GROUNDWATER SHALL BE CLEANED UP IMMEDIATELY. IF THE SPILL IS A REPORTABLE AMOUNT, THE LOCAL FIRE DEPARTMENT IS TO BE CONTACTED.

PATCHING PLANED SURFACE

CONTINGENCY QUANTITIES HAVE BEEN ADDED TO THE PLANS FOR THE FOLLOWING WORK:

ANY DETERIORATED AREAS EXPOSED BY THE PLANING OF THE EXISTING ASPHALT SHALL BE REPAIRED (5% OF PLANED SURFACE) PER CMS 254.04. THE FOLLOWING QUANTITIES SHALL COVER THIS WORK:

ITEM 254 - PATCHING PLANED SURFACE	XXX SY

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DESIGN AGENCY
CHOICE ONE ENGINEERING
DESIGNER DMS
REVIEWER AJH 3-2025
PROJECT ID 121008
SHEET P.14 TOTAL 93

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CONCRETE FIBERS

ALL CURB, DRIVEWAYS, WALKS, TRUCK APRONS AND CURB RAMPS SHALL HAVE 3 LBS OF 2.25" LENGTH FIBRILLATED MACROFIBERS PER CUBIC YARD. THE CONTRACTOR SHALL CONTACT THE FIBER MANUFACTURER'S SUPPLIER 48 HOURS PRIOR TO ORDERING THE FIRST BATCH OF CONCRETE FOR APPROPRIATE MIXING AND FINISHING PROCEDURES. FIBER REPRESENTATIVES SHALL BE ON SITE FOR THE FIRST POUR.

THE FOLLOWING PAY ITEMS WILL INCLUDE THE CONCRETE FIBERS:

ITEM 452 - NON-REINF. CONC. PAVEMENT, CLASS QC 1P, A.P.P.
ITEM 608 - 4" CONCRETE WALK, AS PER PLAN
ITEM 608 - CURB RAMP, AS PER PLAN
ITEM 609 - CURB, TYPE 6, 7 AND 10, AS PER PLAN
ITEM 609 - COMBINATION CURB AND GUTTER, AS PER PLAN

WATER MAIN SEPARATION

EVEN THOUGH NOT ANTICIPATED IN THE CONSTRUCTION OF THE PROJECT, IN AN INSTANCE WHERE A SANITARY SEWER AND A WATER MAIN MUST CROSS, THE SANITARY SEWER SHALL BE LAID BELOW THE WATER MAIN AT SUCH AN ELEVATION THAT THE CROWN OF THE SEWER IS AT LEAST 18" BELOW THE BOTTOM OF THE WATER MAIN PIPE. IF IT IS ABSOLUTELY IMPOSSIBLE TO MAINTAIN THE 18" VERTICAL SEPARATION, THE SANITARY SEWER SHALL BE EITHER CONSTRUCTED OF EITHER SLIP-ON OR MECHANICAL JOINT WATER MAIN MATERIAL AND BE PRESSURE TESTED TO 150 PSI TO ENSURE WATER-TIGHTNESS OR BE ENCASED IN A 0.25" THICK CONTINUOUS STEEL, DUCTILE IRON OR PRESSURE RATED, DR-18 OR LESS PVC PIPE FOR A DISTANCE OF 10 FEET ON EITHER SIDE OF THE CROSSING. THE SANITARY SEWER SHALL BE THE LONGEST STANDARD LENGTH AVAILABLE AND BE CENTERED AT THE POINT OF CROSSING SO THE JOINTS ARE AS FAR AS POSSIBLE FROM THE WATER MAIN.

WHENEVER A STORM SEWER AND A WATER MAIN MUST CROSS, THE PIPES SHALL BE LAID AT SUCH ELEVATIONS THAT THE CROWN OF ONE PIPE IS AT LEAST 18" BELOW THE BOTTOM OF THE OTHER.

WATER MAIN MUST BE INSTALLED WITH A MINIMUM OF 10 FEET OF HORIZONTAL SEPARATION FROM ALL SANITARY AND STORM SEWER PIPE, MEASURED FROM OUTSIDE OF PIPE TO OUTSIDE OF PIPE, AS WELL AS ANY STRUCTURES.

ABANDONED WATER MAIN

DURING THE CONSTRUCTION OF THIS PROJECT, IF THERE ARE CONFLICTS THAT ARISE BETWEEN PROPOSED CONSTRUCTION AND AN ABANDONED WATER MAIN, THE CONTRACTOR MAY CUT AND REMOVE THE EXISTING WATER MAIN AND PLUG THE OPEN ENDS. THE CONTRACTOR SHALL CLOSE ALL ABANDONED VALVES, REMOVE THE VALVE BOX, AND PLACE CONCRETE TO SECURE VALVE IN THE CLOSED POSITION. THE ABOVE WORK HAS BEEN ITEMIZED IN THE SUBSUMMARIES FOR KNOWN ABANDONED WATER MAIN CONFLICT LOCATIONS AND VALVE REMOVAL LOCATIONS.

AIRWAY/HIGHWAY CLEARANCE

THE PROJECT HAS BEEN IDENTIFIED AS BEING WITHIN THE INFLUENCE AREA OF A PUBLIC USE AIRPORT OR HELIPORT. NO TEMPORARY STRUCTURES OR CONSTRUCTION EQUIPMENT AT MAXIMUM OPERATING HEIGHT SHALL EXCEED A HEIGHT OF 100 FEET. IF ANY TEMPORARY STRUCTURES OR CONSTRUCTION EQUIPMENT WILL EXCEED THIS HEIGHT, FURTHER COORDINATION WITH THE FEDERAL AVIATION ADMINISTRATION (FAA), AND ODOT OFFICE OF AVIATION, WILL BE NECESSARY PRIOR TO ERECTING SUCH TEMPORARY STRUCTURES OR OPERATING SUCH EQUIPMENT ON THE PROJECT. THE CONTRACTOR WILL BE REQUIRED TO SUBMIT FORM 7460-1 TO THE FAA. A COPY OF THE SUBMISSION AND TWO COPIES OF FORM 7460-1 SHALL BE FORWARDED TO THE ODOT OFFICE OF AVIATION.

NO TEMPORARY STRUCTURES OR CONSTRUCTION EQUIPMENT SHALL EXCEED THE PERMISSIBLE HEIGHT UNTIL A COPY OF THE FAA APPROVAL AND ODOT OFFICE OF AVIATION PERMIT HAS BEEN FURNISHED TO THE PROJECT ENGINEER.

FEDERAL AVIATION ADMINISTRATION
SOUTHWEST REGIONAL OFFICE
OBSTRUCTIVE EVALUATION GROUP
10101 HILLWOOD PARKWAY
FORT WORTH, TX 76177
FAX: 817-222-5920
HTTP://CEAAA.FAA.GOV

OHIO DEPARTMENT OF TRANSPORTATION
OFFICE OF AVIATION
2829 W. DUBLIN-GRANVILLE ROAD
COLUMBUS, OHIO 43235

CURBING ON APPROACH SLABS

WITHIN THE LIMITS OF THE APPROACH SLAB, TRANSITION THE SHAPE OF THE CURB ON APPROACH SLABS FROM THE STANDARD SECTION ON THE APPROACHES TO THE SECTION USED ON THE BRIDGE.

ITEM 204 - SUBGRADE COMPACTION AND PROOF ROLLING

CONSTRUCT THE SUBGRADE AS FOLLOWS AND IN THE FOLLOWING SEQUENCE:

1. SHAPE THE SUBGRADE TO WITHIN 0.2 FEET OF THE PLAN SUBGRADE ELEVATION.

2. CONTRACTOR SHALL REFERENCE THE TYPICAL SUBGRADE STABILIZATION PLAN. CONTRACTOR SHALL PERFORM EITHER CEMENT SUBGRADE CHEMICAL STABILIZATION, 12" DEPTH EXCAVATION AND REPLACEMENT WITH GEOTEXTILE FABRIC, OR 21" DEPTH EXCAVATION AND REPLACEMENT WITH BOTH GEOGRID AND GEOTEXTILE FABRIC LAYERS DEPENDENT ON LOCATION.

3. AFTER SUBGRADE STABILIZATION PROCESS HAS BEEN COMPLETED, FOR LOCATIONS WITH CEMENT STABILIZATION, CONTRACTOR SHALL SPRAY CURING COAT PER CMS 206.B.3.C. FOR LOCATIONS OF EXCAVATION AND REPLACEMENT, CONTRACTOR SHALL PERFORM SUBGRADE STABILIZATION ON REPLACED AGGREGATES PER CMS 204.03.

4. PROOF ROLL ALL STABILIZED AREAS ACCORDING TO CMS 204.06 TO VERIFY STABILITY AFTER EXCAVATION AND REPLACEMENT.

5. FINE GRADE THE SUBGRADE TO THE SPECIFIED GRADE.

ALL LOCATIONS OF FULL DEPTH ROADWAY CONSTRUCTION HAVE BEEN DETERMINED TO REQUIRE SUBGRADE STABILIZATION. NO CONTINGENCY QUANTITIES HAVE BEEN INCLUDED FOR EXCAVATING AND REPLACING UNSTABLE SUBGRADES.

ITEM 206 - CEMENT STABILIZED SUBGRADE

THE CEMENT STABILIZED SUBGRADE IS REQUIRED AS PART OF THE STRUCTURAL DESIGN OF THE PAVEMENT. ANY CHANGES TO THE STABILIZATION MAY REQUIRE ADDITIONAL PAVEMENT THICKNESS. CONTACT THE OFFICE OF PAVEMENT ENGINEERING AND THE ENGINEER ON RECORD PRIOR TO ANY NON-PERFORMANCE OR CHANGES TO THE CEMENT STABILIZED SUBGRADE.

ITEM 452 - NON-REINFORCED CONCRETE PAVEMENT, AS PER PLAN

THIS ITEM OF WORK SHALL CONSIST OF THE WORK AS DESCRIBED IN OHIO DEPARTMENT OF TRANSPORTATION ITEM 452 - NON-REINFORCED PORTLAND CEMENT CONCRETE PAVEMENT, EXCEPT AS HEREIN MODIFIED.

IN ADDITION TO THE FIBER REQUIREMENTS, CONCRETE SHALL BE ODOT CLASS QC-1P, EXCEPT FOR THE DRIVE ENTRANCES FOR 439 S. MAIN STREET (BKP AMUBLANCE) AND 403 S. MAIN STREET (S&S DRIVE THRU), WHICH SHALL USE CLASS QC-MS PER SUPPLEMENT 1126. CONTRACTOR TO PROVIDE THE CONCRETE WITH A BROOM FINISH AND TOOLED EDGES PER 451.10. CONTRACTOR TO PROVIDE 0.5" OR 1.0" PREMOLDED EXPANSION TO ISOLATE THE APPROACHES AND TRUCK APRONS FROM WALKS, CURB AND EXISTING CONCRETE DRIVEWAYS. DRIVE APPROACHES SHALL BE INSTALLED PER THE DETAIL IN THESE PLANS AND THE DRIVEWAY COMPOSITION SHALL BE PER THE HATCH LEGEND SHOWN IN THESE PLANS. NON REINFORCEMENT IS REQUIRED IN EITHER THE TRUCK APRONS OR CONCRETE DRIVE CONSTRUCTION.

PAYMENT FOR ITEM 452 - NON-REINFORCED CONCRETE PAVEMENT, AS PER PLAN, FOR ALL OPERATIONS DESCRIBED ABOVE SHALL BE AT THE CONTRACT SQUARE YARD BID PRICE AND SHALL INCLUDE ALL MATERIAL, LABOR, AND EQUIPMENT REQUIRED TO COMPLETE THIS ITEM OF WORK.

ITEM 530 - SPECIAL - RETAINING WALL (BLOCK WALL RE-BUILT)

THIS WORK SHALL CONSIST OF REMOVING, TEMPORARILY STORING, AND RE-CONSTRUCTING THE MODULAR BLOCK LANDSCAPING WALL ACCORDING TO THE PLANS.

IN FRONT OF THE PROPERTY AT 416 S. MAIN STREET (LIGHTHOUSE BEHAVIORAL HEALTH), AN EXISTING MODULAR CONCRETE BLOCK LANDSCAPING WALL EXISTS AS AN ENCROACHMENT WITHIN THE PUBLIC RIGHT OF WAY. THE CONTRACTOR SHALL REMOVE, BY HAND, THE LANDSCAPING WALL TO THE LOCATIONS AND LIMITS SHOWN IN THE PLANS.

THE CONTRACTOR SHALL STORE THE MODULAR BLOCK WALL COMPONENTS AT A LOCATION WITHIN THE TEMPORARY RIGHT OF WAY TO BE USED FOR RECONSTRUCTION OF THE LANDSCAPING RETAINING WALL.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFE REMOVAL AND STORAGE OF THE MODULAR BLOCK WALL. ANY DAMAGE TO THE MODULAR BLOCK WALL SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REPLACE IF IT RESULTS IN A SHORTAGE OF BLOCKS. THE QUANTITY OF INDIVIDUAL BLOCKS IN THE REMOVAL OF THE WALL IS GREATER THAN THE AMOUNT OF REPLACEMENT BLOCKS NEEDED FOR RECONSTRUCTION. AN EXCESS AMOUNT OF UNUSED BLOCKS AFTER CONSTRUCTION OF THE NEW WALL IS ANTICIPATED. THE CONTRACTOR SHALL SALVAGE THE UNUSED MODULAR BLOCKS AND COORDINATE PICK-UP BY THE CITY OF KENTON, AS THE BLOCKS ARE TO BE HANDED TO THE CITY OF KENTON.

THE CITY OF KENTON SHALL BE RESPONSIBLE FOR THE COLLECTION AND REMOVAL OFF SITE FOR INSPECTION APPROVED, SALAVAGED MODULAR BLOCKS. ANY EXCESS BLOCKS DEEMED UNACCEPTABLE DUE TO DAMAGE BY THE CONTRACTOR SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR.

THE CONTRACTOR SHALL RE-INSTALL THE NECESSARY MODULAR BLOCKS IN A LOCATION AND AT AN ELEVATION AS SHOWN IN THE PLANS. THE CITY OF KENTON SHALL APPROVE OF ANY BLOCK ELEVATION DIFFERENCES IN THE FIELD. THE CONTRACTOR SHALL HAND COMPACT BELOW THE LINE LOCATION OF THE MODULAR BLOCKS. NO SPECIALIZED LEVELING PADS, BACKFILL MATERIALS, OR DRAINAGE PRESSURE RELIEF INFRASTRUCTURE IS REQUIRED.

PAYMENT OF ITEM 530 - SPECIAL - RETAINING WALL (BLOCK WALL RE-BUILT), FOR ALL OPERATIONS DESCRIBED ABOVE SHALL BE AT THE CONTRACT FOOT BID PRICE FOR THE NEW WALL AND SHALL INCLUDE ALL MATERIAL, LABOR, AND EQUIPMENT TO REMOVE THE CONFLICTING OLD WALL, STORE, AND RECONSTRUCT.

ITEM 601 - CRUSHED AGGREGATE SLOPE PROTECTION, AS PER PLAN

ITEM 690 - SPECIAL - BLACK LANDSCAPING FABRIC

THIS ITEM OF WORK SHALL CONSIST OF THE WORK AS DESCRIBED IN OHIO DEPARTMENT OF TRANSPORTATION ITEM 601 - SLOPE AND CHANNEL PROTECTION, EXCEPT AS HEREIN MODIFIED:

ROCK INSTALLATION AND SPECIFICATIONS SHALL FOLLOW THE WORK DESCRIBED IN ODOT CMS 601.06, EXCEPT THE MATERIAL SHALL BE #34 WASHED RIVER ROCK. THE CRUSHED AGGREGATE (RIVER ROCK) SHALL BE INSTALLED AT A THICKNESS OF 12 INCHES MINIMUM, AND MAY BE PLACED IN A SINGLE LIFT. THE PRESENCE OF TOPSOILS (DIRT) SHALL BE KEPT TO A MINIMUM TO PREVENT FUTURE GROWTH OF VEGETATION.

IN ADDITION, ITEM SPECIAL - BLACK LANDSCAPING FABRIC SHALL BE INSTALLED BENEATH THE CRUSHED AGGREGATES (RIVER ROCK), ON TOP OF COMPACTED EMBANKMENT MATERIALS TO PREVENT FURTHER VEGETATION GROWTH. THE BLACK LANDSCAPING FABRIC SHALL EXTEND 6" VERTICALLY UPWARDS ALONG THE BACK OF CURB FOR THE ENTIRE CENTER ISLAND. THE 6" VERTICAL EXTENSION, ALONG WITH WASTE AND OVERLAPS, IS NOT INCLUDED IN THE SQUARE YARDAGE QUANTITY. THE BLACK LANDSCAPING FABRIC SHALL BE A PREMIUM WEED BARRIER LANDSCAPING FABRIC BY VEVOR, BLACK LANDSCAPE FABRIC BY RIVERSTONE, OR AN APPROVED EQUAL.

PAYMENT FOR ITEM 601 - CRUSHED AGGREGATE SLOPE PROTECTION, AS PER PLAN (#34 WASHED RIVER ROCK), FOR ALL OPERATIONS DESCRIBED ABOVE SHALL BE AT THE CONTRACT CUBIC YARD BID PRICE AND SHALL INCLUDE ALL MATERIAL, LABOR, AND EQUIPMENT REQUIRED TO COMPLETE THIS ITEM.

ITEM 609 - 6" CONCRETE TRAFFIC ISLAND, AS PER PLAN (DECORATIVE, COLORED)

THIS ITEM OF WORK SHALL CONSIST OF THE WORK AS DESCRIBED IN OHIO DEPARTMENT OF TRANSPORTATION ITEM 609 - CURBING, CONCRETE MEDIANS, AND TRAFFIC ISLANDS, EXCEPT AS HEREIN MODIFIED:

THE CONTRACTOR SHALL ADD CONCRETE COLOR MIXTURE TO CONCRETE DURING THE MIXING PROCESS TO ENSURE CONCRETE COLORING IS EVENLY DISTRIBUTED THROUGHOUT THE MATERIAL. CONCRETE COLOR SHALL NOT BE ADDED TO THE SURFACE AFTER PLACEMENT OF THE CONCRETE. CONCRETE COLOR SHALL MATCH THE PERMEABLE PAVERS OF THE DOWNTOWN STREETSCAPE PROJECTS, AS DESCRIBED ON SHEET 58 OF THE CITY OF KENTON STORM, SANITARY, AND ROADWAY IMPROVEMENTS - PHASE 2A, MAIN/DETROIT STREETS. THE CITY OF KENTON SHALL APPROVE THE SELECTION OF THE COLOR PRIOR TO ORDERING OF MATERIALS.

LIKEWISE, STAMPED CONCRETE PATTERNS ARE TO BE PLACED ON THE POURED CONCRETE DURING THE CURING PROCESS. THE STAMPED PATTERNS SHALL MATCH THE PERMEABLE PAVERS PATTERN USED WITHIN THE DOWNTOWN STREETSCAPE PROJECTS ALONG MAIN STREET AND DETROIT STREET. THE STAMPED PATTERN SHALL BE SELECTED AND APPROVED BY THE CITY OF KENTON PRIOR TO ORDERING. AN EXAMPLE OF THE PATTERN IS SHOWN ON SHEET 58 OF THE CITY OF KENTON STORM, SANITARY, AND ROADWAY IMPROVEMENTS - PHASE 2A, MAIN/DETROIT STREETS. STAMPED IMPRINT DEPTHS SHALL MEET SPECIFICATIONS OF THE PATTERN SUPPLIER.

FOR BIDDING PURPOSES, THE CONTRACTOR SHALL SELECT A PATTERN AND COLOR THAT BEST FITS THE COMPLETED DOWNTOWN STREETSCAPE.

PAYMENT FOR ITEM 609 - 6" CONCRETE TRAFFIC ISLAND, AS PER PLAN (DECORATIVE, COLORED) FOR ALL OPERATIONS DESCRIBED ABOVE SHALL BE AT THE CONTRACT SQUARE YARD BID PRICE AND SHALL INCLUDE ALL LABOR, MATERIAL, CITY COLLABORATION, AND EQUIPMENT TO COMPLETE THIS ITEM OF WORK.

ITEM 630 - GROUND MOUNTED SUPPORT, NO. 3 POST, AS PER PLAN

THIS ITEM OF WORK SHALL CONSIST OF THE WORK AS DESCRIBED IN OHIO DEPARTMENT OF TRANSPORTATION ITEM 630 - TRAFFIC SIGNS AND SIGN SUPPORTS, EXCEPT AS HEREIN MODIFIED:

ALL POSTS, BOLTS, NUTS, WASHERS AND OTHER HARDWARE SHALL BE GALVANIZED WITH A BLACK FINISH PER ODOT SS 916.

PAYMENT FOR ITEM 630 - GROUND MOUNTED SUPPORT, NO. 3 POSTS, AS PER PLAN, FOR ALL OPERATIONS DESCRIBED ABOVE SHALL BE AT THE CONTRACT FOOT BID PRICE AND SHALL INCLUDE ALL MATERIAL, LABOR, AND EQUIPMENT TO COMPLETE THIS ITEM OF WORK.

ITEM 630 - OVERHEAD SIGN SUPPORT, TYPE TC-16.21, DESIGN 9, AS PER PLAN

THIS ITEM OF WORK SHALL CONSIST OF THE WORK AS DESCRIBED IN OHIO DEPARTMENT OF TRANSPORTATION ITEM 630 - TRAFFIC SIGNS AND SIGN SUPPORTS, EXCEPT AS HEREIN MODIFIED:

IN ADDITION TO THE PLAN DETAIL SHOWN ON SHEET "OVERHEAD SIGN SUPPORT ELEVATION VIEW" AND THE REQUIREMENTS OF ODOT SPECIFICATIONS 632, 732, AND STANDARD DRAWING TC-16.22, TC-22.10, AND HL-10.11, THE OVERHEAD SIGN SUPPORT SYSTEM SHALL HAVE ALL POLES, MAST ARMS, BRACKET ARMS, END CAPS, HANDHOLE COVERS, ETC. ASSOCIATED WITH THE INSTALLATION OF THIS OVERHEAD SIGN GALVANIZED WITH BLACK FINISH, PER ODOT SUPPLEMENTAL SPECIFICATION 916.

THE SUPPORT POLE, MAST ARMS AND BRACKET ARMS SHALL BE WRAPPED TO PROTECT THE FINISH DURING SHIPPING, UNLOADING, AND INSTALLATION. THE CONTRACTOR IS RESPONSIBLE TO PROVIDE ADEQUATE PROTECTION FOR THE BLACK FINISH. IF THE FINISH IS DAMAGED DURING HANDLING, THE CONTRACTOR SHALL REPAIR THE FINISH PER MANUFACTURER'S RECOMMENDATIONS.

DESIGN AGENCY
CHOICE ONE ENGINEERING
DESIGNER DMS
REVIEWER AJH 3-2025
PROJECT ID 121008
SHEET P.15 TOTAL 93

ITEM 630 - OVERHEAD SIGN SUPPORT, TYPE TC-16.21, DESIGN 9, AS PER PLAN (CONTINUED)

PAYMENT FOR ITEM 630 - OVERHEAD SIGN SUPPORT, TYPE TC-16.21, DESIGN 9, AS PER PLAN, FOR ALL OPERATIONS DESCRIBED ABOVE SHALL BE AT THE CONTRACT EACH BID PRICE AND SHALL INCLUDE ALL MATERIAL, LABOR, AND EQUIPMENT TO COMPLETE THIS ITEM OF WORK.

ITEM 630 - SIGN HANGER ASSEMBLY, MAST ARM, AS PER PLAN

IN ADDITION TO THE REQUIREMENTS OF ODOT SPECIFICATIONS ITEM 630 AND 730, THE CONTRACTOR SHALL RIGIDLY ATTACH A SIGN TO THE MAST ARM. THE SIGN ATTACHMENT ASSEMBLY SHALL HAVE A BLACK FINISH AND BE DESIGNED WITHOUT SET SCREWS, PIPE THREADS, RETAINER RINGS, AND SCREW LOCK BUCKLES. THE SADDLE USED TO FASTEN THE SUPPORT MEMBER TO THE MAST ARM SHALL ALSO HAVE A MULTI-TOOTH MOUNTING SURFACE TO INHIBIT MOVEMENT OR ROTATION. THIS ITEM SHALL INCLUDE ALL NECESSARY HARDWARE, FASTENERS, AND ACCESSORIES. ALL NECESSARY HARDWARE, FASTENERS, AND ACCESSORIES SHALL BE STAINLESS STEEL AND HAVE A BLACK FINISH.

PAYMENT FOR ITEM 630 - SIGN HANGER ASSEMBLY, MAST ARM, AS PER PLAN, SHALL BE AT THE CONTRACT EACH BID PRICE AND SHALL INCLUDE ALL LABOR, MATERIAL AND EQUIPMENT REQUIRED TO COMPLETE THIS ITEM OF WORK.

ITEM 630 - SIGNING, MISC.: GROUND MOUNTED REMOVABLE SUPPORT SYSTEM

THIS ITEM OF WORK SHALL CONSIST OF THE WORK AS DESCRIBED IN OHIO DEPARTMENT OF TRANSPORTATION ITEM 630 - TRAFFIC SIGNS AND SIGN SUPPORTS EXCEPT AS HEREIN MODIFIED:

THIS WORK SHALL INCLUDE THE USE OF THE NEX SIGN SUPPORT SYSTEM POSTS OR EQUIVALENT FOR ALL GROUND MOUNTED SIGNS LOCATED WITHIN ANY CONCRETE TRAFFIC ISLAND. THE NEX SIGN SUPPORT SYSTEM POST ARE MANUFACTURED BY S-SQUARE TUBE PRODUCTS, 5495 EAST 69TH AVENUE, COMMERCE CITY, COLORADO 80022 (PHONE NUMBER: 303-286-7051).

THE INSTALLATION OF THE POST SHALL INCLUDE: 2" 12 GAUGE NEX POST, 2.5" X 3' SQUARE ANCHOR, NEX WEDGE, FRONT MOUNT BRACKET, TOP CAP AND DRIVE RIVET. THE USE OF A NEX ANCHOR PLATE IS NOT PERMITTED FOR THE BASE OF THE SIGN ASSEMBLY. ALL COMPONENTS OF THE SIGN SUPPORT SYSTEM SHALL BE POWDER COATED BLACK - BK05 BLACK 60 GLOSS.

THE 2.5" X 3' SQUARE ANCHOR SHALL BE INSTALLED SUCH THAT THE TOP OF THE SQUARE ANCHOR SHALL NOT EXTEND MORE THAN 1" ABOVE THE SURFACE OF THE ADJACENT CONCRETE. ONCE THE SIGN IS REMOVED FOR OVERSIZE LOAD VEHICLES, NO PERMANENT OBJECT SHOULD BE EXPOSED TO PREVENT VEHICLES FROM PASSING THROUGH THE ROUNDABOUT.

PAYMENT FOR ITEM 630 - SIGNING, MISC.: GROUND MOUNTED REMOVABLE SUPPORT SYSTEM, FOR ALL OPERATIONS DESCRIBED ABOVE, SHALL BE AT THE CONTRACT FOOT BID PRICE AND SHALL INCLUDE ALL LABOR, MATERIAL, AND EQUIPMENT REQUIRED TO COMPLETE THIS ITEM OF WORK. THE FOOT BID PRICE INCLUDES ALL ANCHORS, WEDGES AND MOUNTING BRACKETS FOR THE INSTALLATION OF THE SIGN. THE SIGNS THEMSELVES SHALL BE PAID FOR SEPARATELY.

ITEM 638 - WATER WORKS, MISC.: WATER MAIN RELOCATED

THIS ITEM OF WORK SHALL CONSIST OF THE WORK AS DESCRIBE IN OHIO DEPARTMENT OF TRANSPORTATION ITEM 638 - WATER MAINS AND SERVICE BRANCHES, EXCEPT AS HEREIN MODIFIED:

THIS ITEM OF WORK SHALL INCLUDE THE RELOCATION OF THE EXISTING WATER MAIN TO AVOID CONFLICTS WITH THE PROPOSED CONSTRUCTION. THE ADJUSTMENT TO THE WATER MAIN SHALL BE DONE PER CITY STANDARDS AND AS SHOWN IN THE PLAN DETAIL. ITEMS INCLUDED IN THE WATER MAIN RELOCATION SHALL BE EXCAVATION, CUTTING OF EXISTING WATER MAIN, MECHANICAL JOINT RESTRAINTS, DUCTILE IRON BEND FITTINGS, DUCTILE IRON SOLID SLEEVE FITTINGS, TRACER WIRE MODIFICATIONS, WATER MAIN AND PIPE BACKFILL. THIS ITEM SHALL ONLY BE PERFORMED WITH PRIOR APPROVAL FROM THE CITY. THE RELOCATED WATER MAIN SHALL BE OF THE SAME TYPE AS THE EXISTING, OR AN APPROVED ALTERNATIVE. PAYMENT SHALL BE ON A PER PRE-CONNECTION BASIS AS WELL AS THE FOOTAGE OF WATER MAIN THAT IS RELOCATED. RE-CONNECTING THE WATER MAIN ON BOTH ENDS OF THE RELOCATION WILL COUNT AS ONE RE-CONNECTION IN THE BID QUANTITIES.

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE PLANS FOR THE WORK NOTED ABOVE:

ITEM 638 - WATER WORKS, MISC.: 8" WATER MAIN RELOCATED	50 FEET
ITEM 638 - WATER WORKS, MISC.: 12" WATER MAIN RELOCATED	50 FEET
ITEM 638 - WATER WORKS, MISC.: 8" WATER MAIN RECONNECTED	1 EACH
ITEM 638 - WATER WORKS, MISC.: 12" WATER MAIN RECONNECTED	1 EACH

THE ABOVE ARE ESTIMATED QUANTITIES, BUT THIS ITEM COULD BE NON-PERFORMED IF DEEMED UNNECESSARY OR EXCEED THE ESTIMATED QUANTITY.

PAYMENT FOR ITEM 638 - WORK WORKS, MISC.: WATER MAIN RELOCATED (AND RECONNECTED), FOR ALL OPERATIONS DESCRIBED ABOVE SHALL BE AT THE CONTRACT FOOT BID PRICE (AND EACH BID PRICE) AND SHALL INCLUDE ALL MATERIAL, LABOR, TESTING AND EQUIPMENT REQUIRED TO COMPLETE THIS ITEM OF WORK.

ITEM 638 - 1" COPPER SERVICE BRANCH, AS PER PLAN

THIS ITEM OF WORK SHALL CONSIST OF THE WORK AS DESCRIBE IN OHIO DEPARTMENT OF TRANSPORTATION ITEM 638 - WATER MAINS AND SERVICE BRANCHES, EXCEPT AS HEREIN MODIFIED:

IN ADDITION THE THE KNOWN RELOCATIONS SHOWN WITHIN THE PLANS, THIS ITEM OF WORK SHALL INCLUDE THE RELOCATIONS OF ANY ADDITIONAL UKNOWN EXISTING WATER SERVICE LINES TO AVOID CONFLICTS WITH THE PROPOSED CONSTRUCTION. THE ADJUSTMENT TO THE WATER SERVICE LINES SHALL BE DONE PER CITY STANDARDS. ALL NEW APPURTENANCES, PIPE, BLOCKING, RESTRAINING GLANDS, MECHANICAL JOINT SOLID SLEEVE, BACKFILL, SERVICE VALVES AND BOXES, ETC. SHALL BE INCLUDED IN THIS ITEM OF WORK. THIS ITEM SHALL ONLY BE PERFORMED WITH PRIOR APPROVAL FROM THE CITY. THE RELOCATED WATER SERVICE LINE SHALL BE OF THE SAME SIZE AND TYPE AS THE EXISTING UNLESS LEAD LINES ARE DETECTED, OR AN APPROVED EQUAL.

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE PLANS FOR THE WORK NOTED ABOVE:

ITEM 638 - 1" COPPER SERVICE BRANCH, AS PER PLAN	100 FT

THE ABOVE ARE ESTIMATED QUANTITIES, BUT THIS ITEM COULD BE NON-PERFORMED IF DEEMED UNNECESSARY OR EXCEED THE ESTIMATED QUANTITY.

PAYMENT FOR ITEM 638 - 1" COPPER SERVICE BRANCH, AS PER PLAN, FOR ALL OPERATIONS DESCRIBED ABOVE SHALL BE AT THE CONTRACT FOOT BID PRICE AND SHALL INCLUDE ALL MATERIAL, LABOR AND EQUIPMENT REQUIRED TO COMPLETE THIS ITEM OF WORK.

ITEM 690 - WORK INVOLVING PETROLEUM CONTAMINATED SOILS

ENVIRONMENTAL STUDIES INDICATED THAT PETROLEUM CONTAMINATED SOILS (PCS) WILL BE ENCOUNTERED DURING EXCAVATIONS WITHIN THE PROJECT LIMITS FROM STA. 1492+90 TO STA. 1493+50 (IN FRONT OF RM-046 - 416/418 S. DETROIT STREET OWNED BY CITY OF KENTON). ENVIRONMENTAL STUDIES ARE AVAILABLE UPON REQUEST. THE CONTRACTOR MUST DETERMINE APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT FOR THOSE WHO CONDUCT WORK WITH THE LIMITS OF THE PCS.

ALL EXCAVATED PCS THAT CANNOT BE REUSED AS PROJECT FILL PER CMS 203.03(J) SHALL BE MANAGED AND DISPOSED OF AT A LICENSED LANDFILL. THE ENGINEER MAY PERMIT THE CONTRACTOR TO DIRECT LOAD THE EXCAVATED PCS INTO TRUCKS FOR TRANSPORT AND DISPOSAL. AS AN ALTERNATE, THE ENGINEER MAY PERMIT THE CONTRACTOR TO TEMPORARILY STOCKPILE THE EXCAVATED PCS ON AN IMPERMEABLE MEMBRANE, IN AN AREA PROVIDED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER. THE STOCKPILE SHALL BE SURROUNDED BY STRAW BALES TO REDUCE RUNOFF. THE CONTRACTOR WILL PROVIDE COMPLETED LOG FORMS AND MANIFESTS FOR TRANSPORT AND DISPOSAL TO THE ENGINEER FOR SIGNATURE. THE CONTRACTOR IS RESPONSIBLE FOR ANY ADDITIONAL TESTING THAT THE LANDFILL MAY REQUIRE FOR DISPOSAL.

IF EXCAVATIONS WITHIN THE PCS REQUIRE DEWATERING FOR CONSTRUCTION PURPOSES, THE CONTRACTOR SHALL DEWATER, CONTAINERIZE AND DISPOSE OF WATERS BY METHOD APPROVED BY THE ENGINEER. THE CONTRACTOR SHALL OBTAIN ALL THE NECESSARY PERMITS NEEDED TO STORE, TRANSPORT AND DISPOSE OF WATER IN ACCORDANCE WITH APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS. THE CONTRACTOR IS RESPONSIBLE FOR ANY ADDITIONAL TESTING REQUIRED FOR DISPOSAL. ALL EXCAVATED AREAS SHALL BE BACKFILLED WITH SUITABLE MATERIAL IN ACCORDANCE WITH PROJECT PLANS, APPLICABLE ODOT SPECIFICATIONS OR AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL FURNISH ALL THE LABOR, EQUIPMENT AND MATERIALS NECESSARY TO PROPERLY MANAGE, STORE (IF NECESSARY), TEST FOR DISPOSAL, TRANSPORT AND DISPOSE OF REGULATED MATERIALS, INCLUDING ANY REQUIRED PERMITS OR FEES WITHIN THE IDENTIFIED LIMITS. PAYMENT FOR THIS WORK SHALL BE MADE AT THE CONTRACT PRICE BID. THE FOLLOWING ESTIMATED QUANTITY HAS BEEN INCLUDED IN THE GENERAL SUMMARY.

ITEM 690 - WORK INVOLVING PETROLEUM CONTAMINATED SOILS	XXX CY

ITEM 690 - SPECIAL - BOLLARD (DECORATIVE, REMOVABLE)

THIS WORK SHALL INCLUDE THE INSTALLATION OF A REMOVABLE, DECORATIVE BOLLARD AT THE LOCATIONS LISTED IN THE PLANS INCLUDING THE INSTALLATION OF THE MANUFACTURER'S RECOMMENDED CONCRETE ANCHOR BASE.

FOR BIDDING, THE REMOVABLE, DECORATIVE BOLLARD SHALL MATCH THE DETAIL SHOWN IN THE PLANS. THE CONTRACTOR SHALL SUBMIT MANUFACTURER, DETAILS, AND SPECIFICATIONS TO THE CITY FOR APPROVAL PRIOR TO ORDERING.

THE BOLLARDS SHOULD BE REMOVABLE TO ALLOW OVERSIZED TRUCK LOADS TO NAVIGATE THE ROUNDABOUT WHEN PERMITTED. ONCE REMOVED, THE ANCHOR CONNECTION FOR THE BOLLARD SHALL BE RECESSED OR CAPABLE OF RECESSING TO BECOME FLUSH WITH THE ADJACENT CONCRETE PAVEMENT. THE BOLLARD SHALL ALSO BE ABLE TO LOCKED IN A MANNER THAT ONLY CITY PERSONNEL ARE CAPABLE OF REMOVING THE BOLLARD WHEN REQUIRED.

EXTERIOR COLOR FINISH OF THE BOLLARD SHALL BE BLACK. BOLLARDS SHOULD BE A MINIMUM OF 32" IN HEIGHT AND A MAXIMUM OF 40" IN HEIGHT.

AN R-7582 BOLLARD MANUFACTURED BY RELIANCE-FOUNDRY HAS BEEN PROVIDED IN THE PLANS FOR BIDDING. AN APPROVED EQUAL BY THE CITY OF KENTON, MEETING THE REQUIREMENTS MENTIONED ABOVE, SHALL BE PERMITTED. THE CONTRACTOR SHALL INSTALL AND PROVIDE STORM WATER DRAINAGE PROCEDURES ACCORDING TO MANUFACTURER'S SPECIFICATIONS.

PAYMENT FOR ITEM 690 - SPECIAL - BOLLARD (DECORATIVE, REMOVABLE), FOR ALL OPERATIONS DESCRIBED ABOVE SHALL BE AT THE CONTRACT EACH BID PRICE AND SHALL INCLUDE ALL MATERIAL, LABOR AND EQUIPMENT REQUIRED TO COMPLETE THIS ITEM OF WORK.

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DESIGN AGENCY
CHOICE ONE ENGINEERING
DESIGNER DMS
REVIEWER AJH 3-2025
PROJECT ID 121008
SHEET P.16 TOTAL 93

BMP TYPE	PROJECT LOCATION			CONTRIB. AREA	EDA TREATMENT
	LATITUDE	LONGITUDE	STATION AND OFFSET	(ACRES)	(ACRES)
MANUFACTURED WATER QUALITY STRUCTURE, TYPE 3	40.383436°	83.363431°	STA. 2594+94.45, 30.7' LT	1.74	0.68
				TREATMENT PROVIDED	0.68
				TREATMENT REQUIRED*	0.64

* CALCULATED PER L&D VOL. 2, SEC. 1115.7

PROJECT DESCRIPTION:

PROJECT CONSISTS OF THE CONSTRUCTION OF A ROUNDABOUT ALONG PERRY STREET TO PROVIDE CONNECTION BETWEEN DETROIT STREET (U.S. 68) AND MAIN STREET (S.R. 31) FOR CONGESTION RELIEF. THE PROJECT ALSO INCLUDES PEDESTRIAN IMPROVEMENTS, STORM SEWER UPGRADES, AND PUBLIC UTILITY INCIDENTALS TO GO ALONG WITH SIGNAL UPGRADES ALONG DETROIT STREET AT FRANKLIN AND COLUMBUS STREETS.

PROJECT DATA:

TOTAL AREA (RIGHT OF WAY) = 3.8 ACRES
PROJECT EARTH DISTURBED AREA = 2.8 ACRES
ESTIMATED CONTRACTOR EARTH DISTURBED AREA = 0.2 ACRES
NOTICE OF INTENT EARTH DISTURBED AREA = 3.0 ACRES
IMPERVIOUS (PAVED) AREA FOR PRE-CONSTRUCTION SITE = 3.0 ACRES
IMPERVIOUS (PAVED) AREA FOR POST-CONSTRUCTION SITE = 2.9 ACRES
RUNOFF COEFFICIENT FOR PRE-CONSTRUCTION SITE = 0.77
RUNOFF COEFFICIENT FOR POST-CONSTRUCTION SITE = 0.76
POST CONSTRUCTION BMP: MANUFACTURED WATER QUALITY STRUCTURE, TYPE 3
IMMEDIATE RECEIVING WATERS: CITY MAINTAINED STORM SYSTEM
SUBSEQUENT RECEIVING WATERS: SCIOTO RIVER

BMP CALCULATIONS:

FOR LOCATIONS BESIDES THE NEW PERRY STREET, NEW IMPERVIOUS AREA IN NEW RIGHT OF WAY MINUS ANY IMPERVIOUS AREA THAT IS REMOVED INSIDE NEW PERMANENT RIGHT OF WAY = 0.00 ACRES = A(in).

FOR THOSE LOCATIONS, DUE TO REMOVAL OF BUILDINGS, PARKING LOTS, AND GRAVEL AREAS, AND CONSTRUCTION OF CURB LAWNS AND PERVIOUS AREAS, THE NET A(in) IS LESS THAN 0.

FOR PERRY STREET, A(in) = 0.06 ACRES.

FOR BMP CALCULATIONS, THE TOTAL A(in) = 0.06 ACRES

A(ix) = EDA INSIDE EXISTING R/W_ = 1.63 ACRES

T = [(1.54*20)+(0.06*100) / (1.54+0.06)] = 23.0%

POST CONSTRUCTION TREATMENT REQ'D = 2.8 * 0.23 = 0.64 ACRES

EDA AREA WITHIN EXISTING RIGHT OF WAY = 0.46 ACRES
EDA AREA WITHIN PROPOSED RIGHT OF WAY (IMPERVIOUS) = 0.20 ACRES
EDA AREA WITHIN PROPOSED RIGHT OF WAY (PERVIOUS) = 0.02 ACRES
CONTRIBUTING AREA INSIDE EXISTING RIGHT OF WAY = 0.62 ACRES
CONTRIBUTING AREA OUTSIDE EXISTING RIGHT OF WAY (IMPERVIOUS) = 0.34 ACRES
CONTRIBUTING AREA OUTSIDE EXISTING RIGHT OF WAY (PERVIOUS) = 0.10 ACRES

TOTAL TREATMENT AREA = 0.68 ACRES
TOTAL CONTRIBUTING AREA = 1.74 ACRES

C = COEFFICIENT = ((0.46*.9)+(.2*.9)+(.02*.3)+(.62*.9)+(.34*.9)+(.10*.3)) / (1.74) = 0.86
i = 1.46 IN/HR (Tc @ MH-3 D-11 = 16.00 MIN) (L&D V2 CHART 1111-2)
A = 1.74 ACRES

WQ(f) = 0.86 * 1.46 * 1.74 = 2.18 CFS

(1) MANUFACTURED WATER QUALITY STRUCTURE, TYPE 3

E.D.A. TREATMENT AREA WITHIN EXISTING RIGHT OF WAY

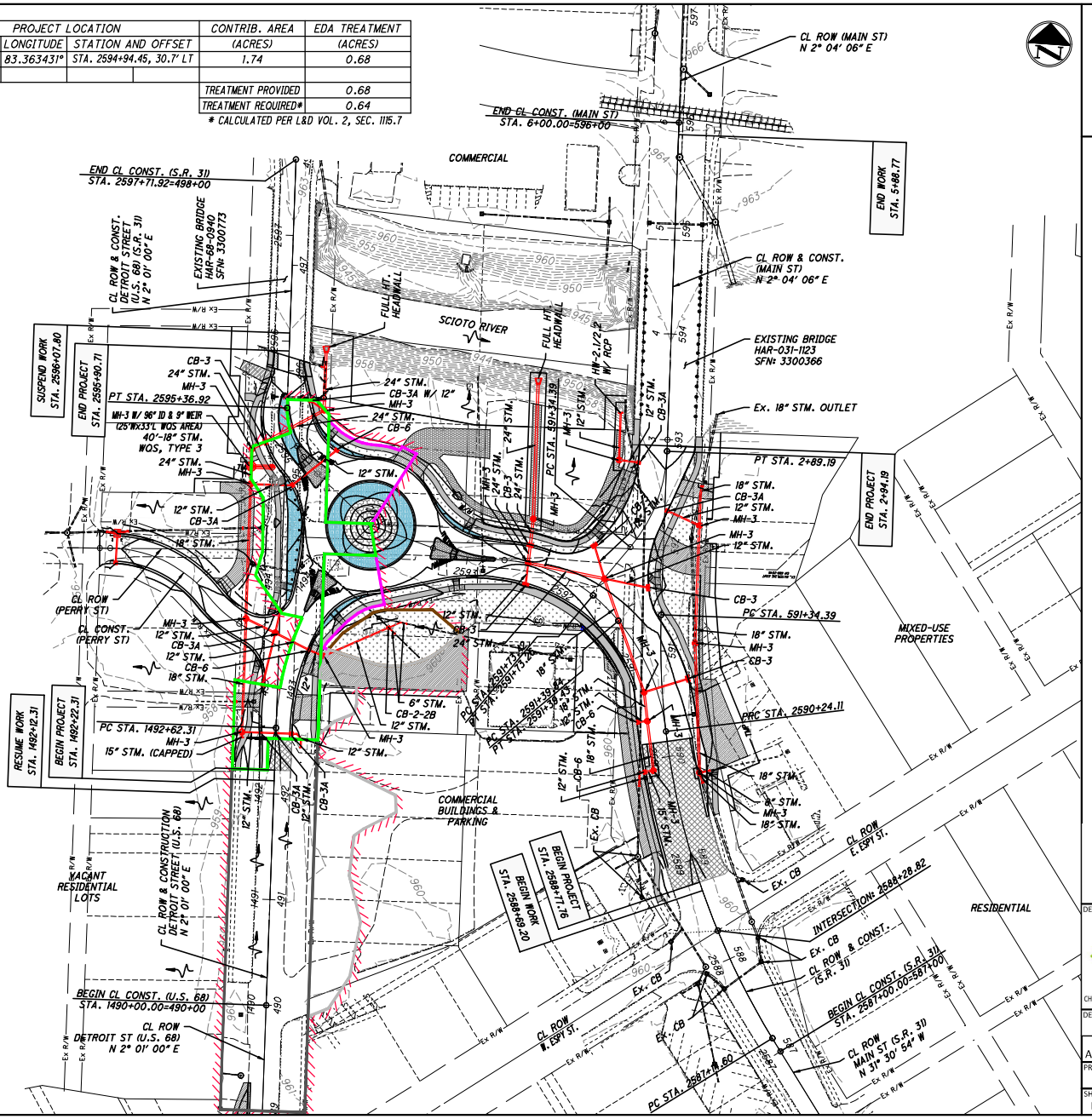
E.D.A. TREATMENT AREA WITHIN PROPOSED RIGHT OF WAY (IMPERVIOUS)

CONTRIBUTING AREA INSIDE OF EXISTING RIGHT OF WAY

CONTRIBUTING AREA OUTSIDE RIGHT OF WAY (IMPERVIOUS)

CONTRIBUTING AREA OUTSIDE RIGHT OF WAY (PERVIOUS)

TOTAL CONTRIBUTING AREA



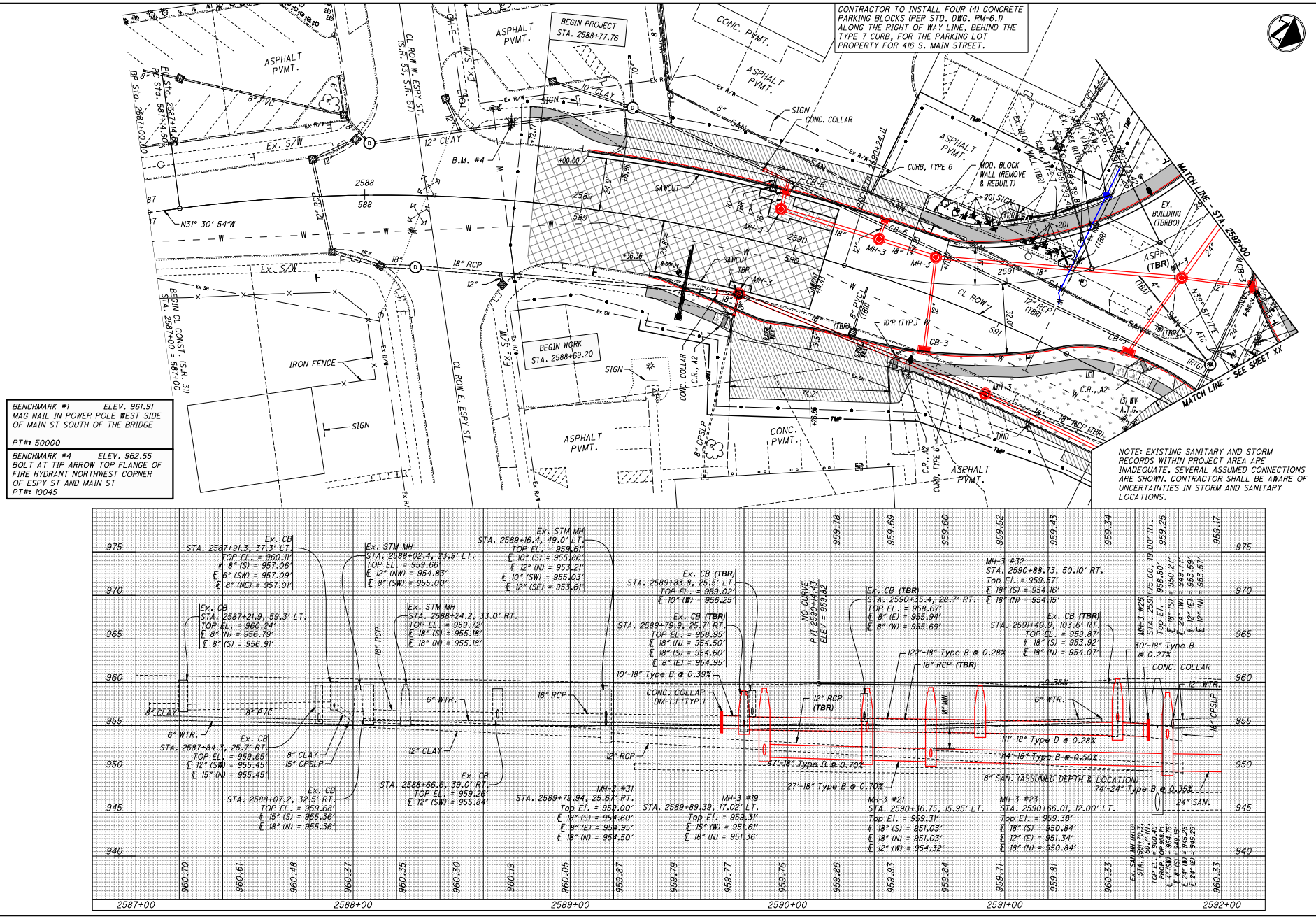
HORIZONTAL SCALE IN FEET 0 25 50 100

PROJECT SITE PLAN

DESIGN AGENCY
CHOICE ONE ENGINEERING
DESIGNER DMS
REVIEWER AJH 3-2025
PROJECT ID 121008
SHEET P.36 TOTAL 93

HAR-US68/SR31-ROUNDABOUT

Z:\project\Hardin\Kenton\HAR-KEN-2311_SR31-US68_Bypass\121008_DE.dwg 24-Mar-25 8:07 AM



HAR-US68/SR31-ROUNDABOUT

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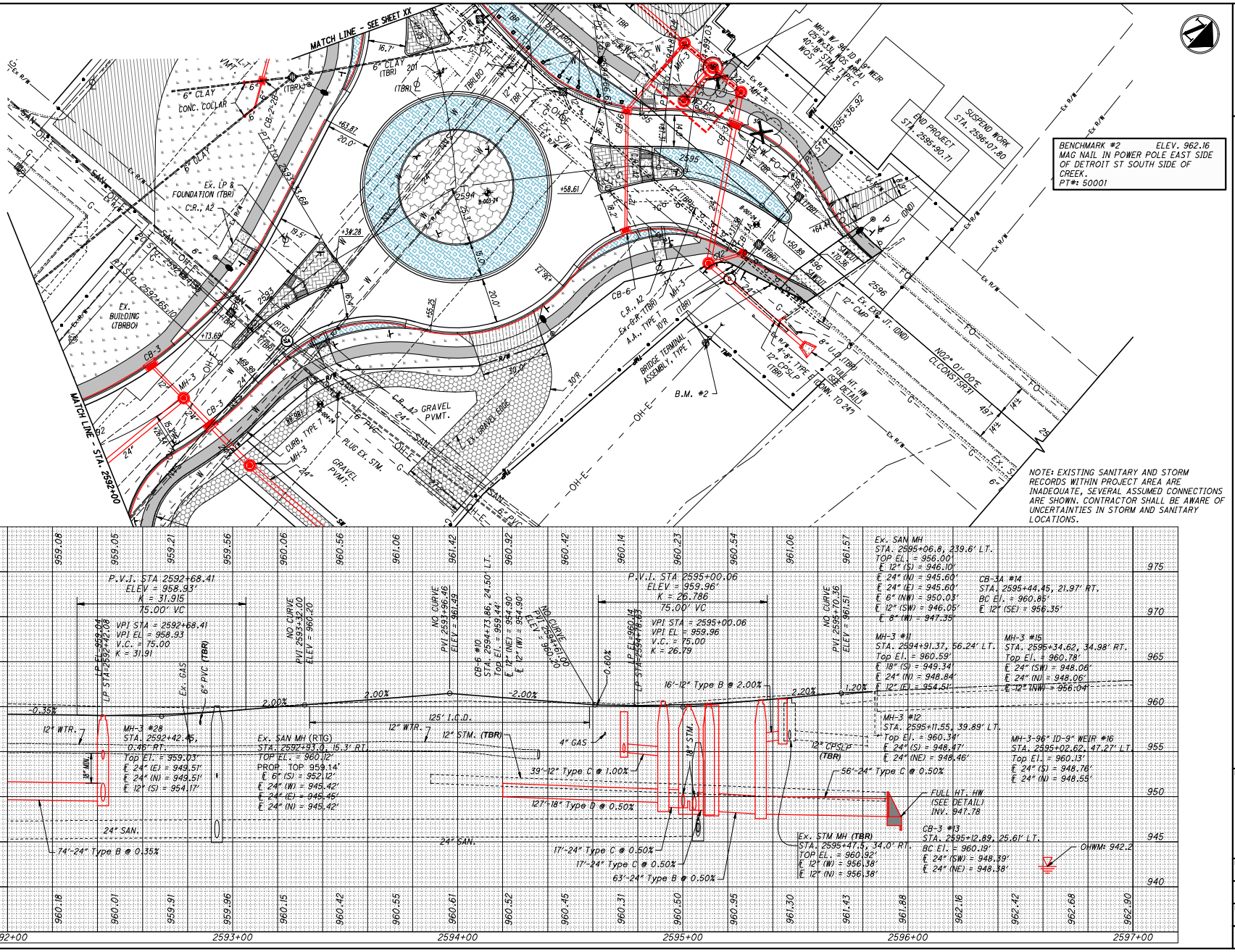
HORIZONTAL SCALE IN FEET 0 10 20 40

PLAN AND PROFILE - S.R. 31

STA. 2587+00 TO STA. 2592+00

DESIGN AGENCY
CHOICE ONE ENGINEERING
DESIGNER DMS
REVIEWER AJH 3-2025
PROJECT ID 121008
SHEET P.37 TOTAL 93



HAR-US68/SR31-ROUNDABOUT

Z:\project\Hardin\Kenton\HAR-KEN-2311_SR31-US68_Bypass\121008_GP.dwg 24-Mar-25 8:07 AM

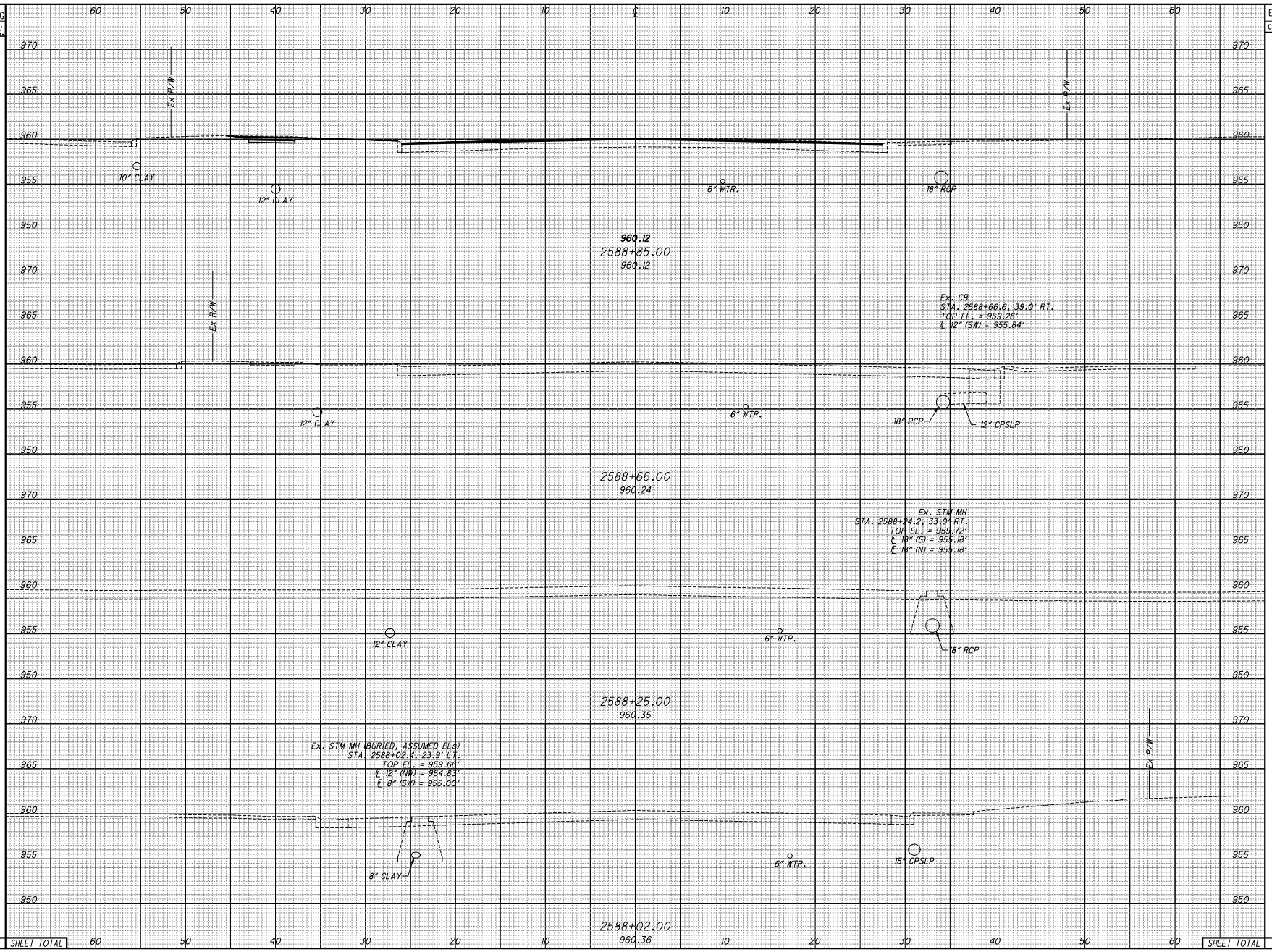
PLAN AND PROFILE - S.R. 31

STA. 2592+00 TO STA. 2597+00

HORIZONTAL SCALE IN FEET 0 10 20 40

DESIGN AGENCY
CHOICE ONE ENGINEERING

DESIGNER	DMS
REVIEWER	AJH 3-2025
PROJECT ID	121008
SHEET	P.38
TOTAL	93



HAR-US68/SR31-ROUNDABOUT

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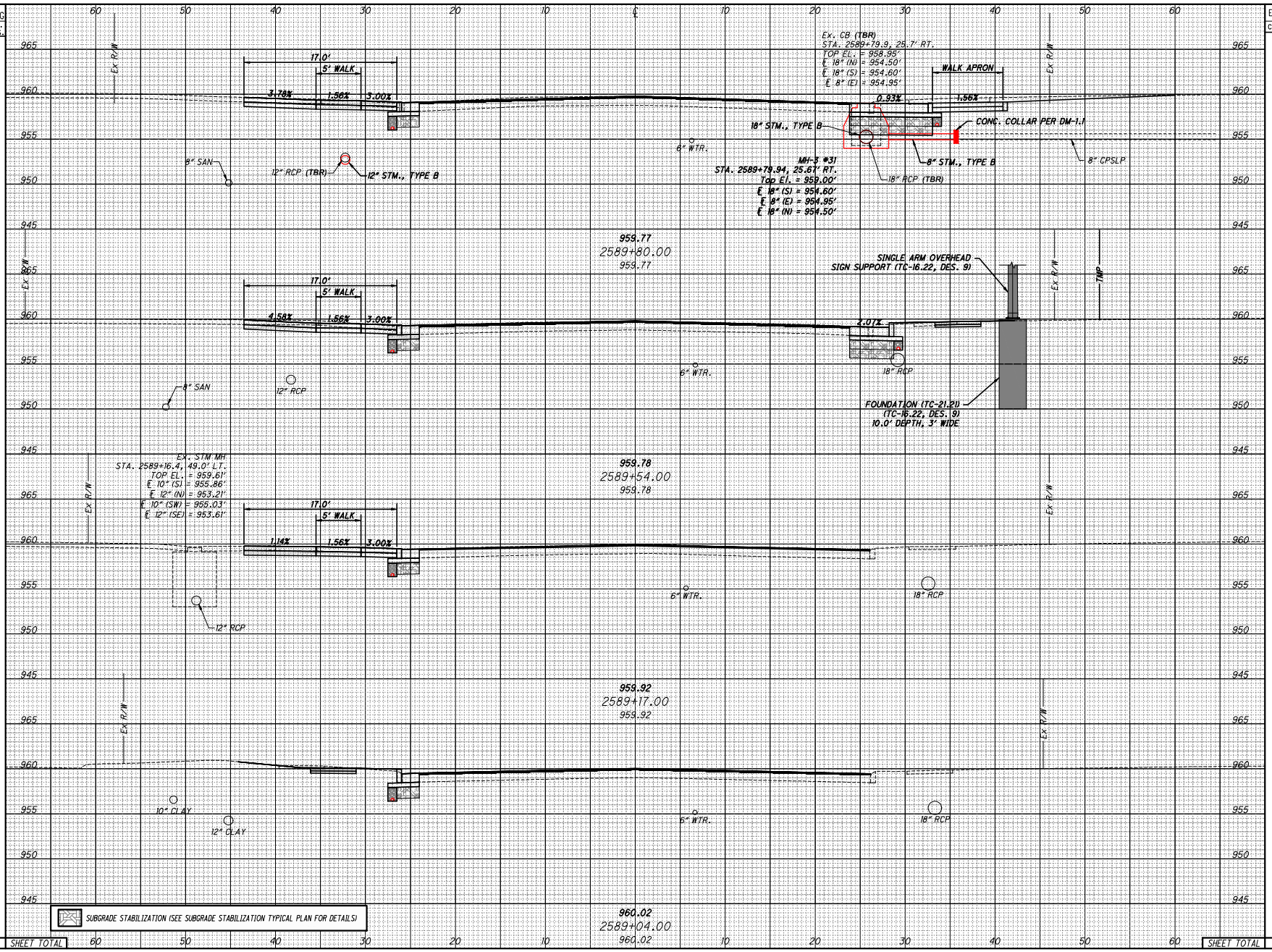
CROSS SECTIONS - S.R. 31
STA. 2588+02.00 TO STA. 2588+85.00

DESIGN AGENCY
CHOICE ONE ENGINEERING

DESIGNER	DMS
REVIEWER	AJH 3-2025
PROJECT ID	121008
SHEET	P.39
TOTAL	93



HAR-US68/SR31-ROUNDABOUT

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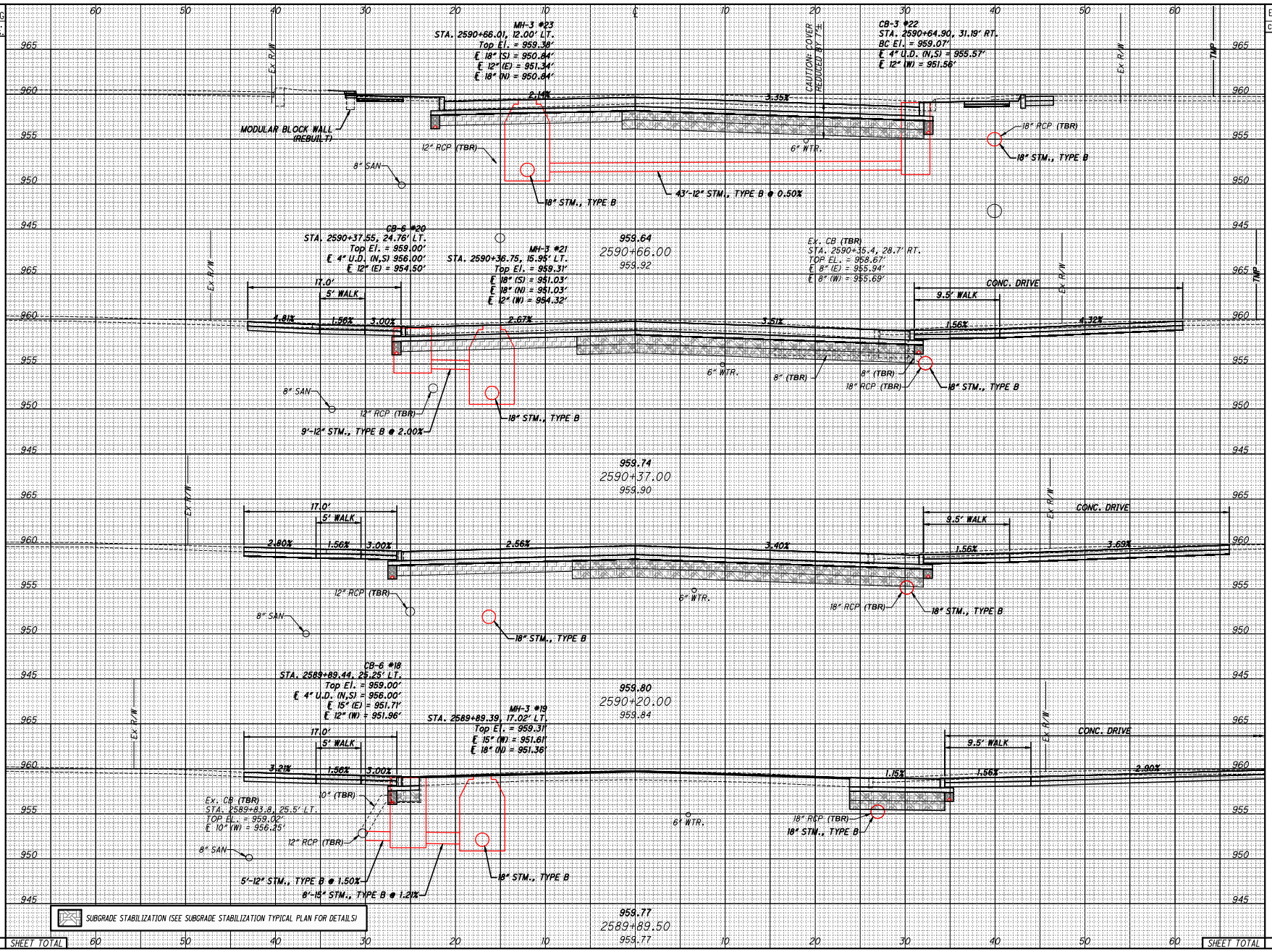
CROSS SECTIONS - S.R. 31
STA. 2589+04.00 TO STA. 2589+80.00

DESIGN AGENCY
CHOICE ONE ENGINEERING

DESIGNER	DMS
REVIEWER	AJH 3-2025
PROJECT ID	121008
SHEET	P.40
TOTAL	93



HAR-US68/SR31-ROUNDABOUT

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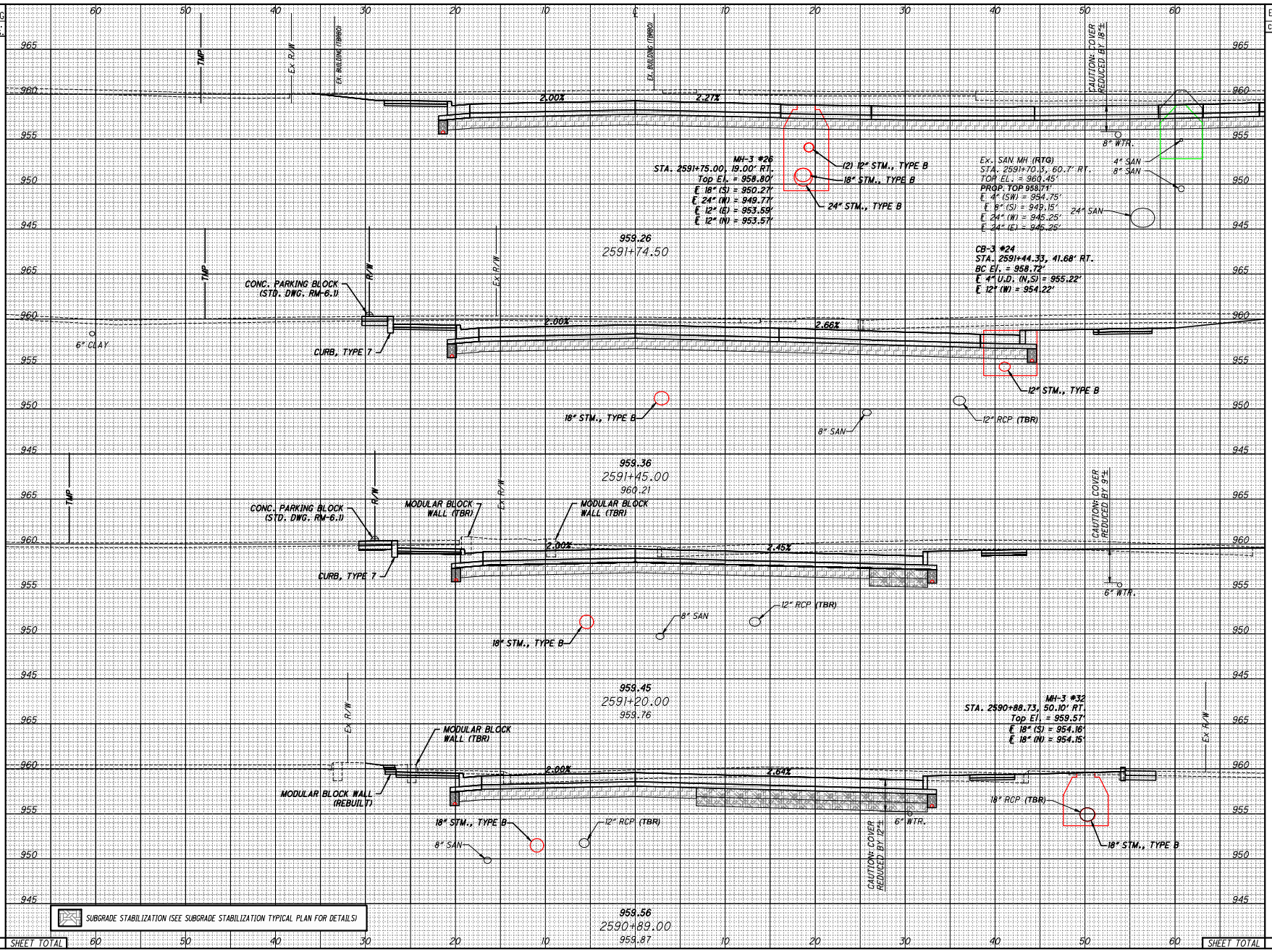
CROSS SECTIONS - S.R. 31
STA. 2589+89.50 TO STA. 2590+66.00

DESIGN AGENCY
CHOICE ONE ENGINEERING

DESIGNER	DMS
REVIEWER	AJH 3-2025
PROJECT ID	121008
SHEET	P.41
TOTAL	93



HAR-US68/SR31-ROUNDABOUT

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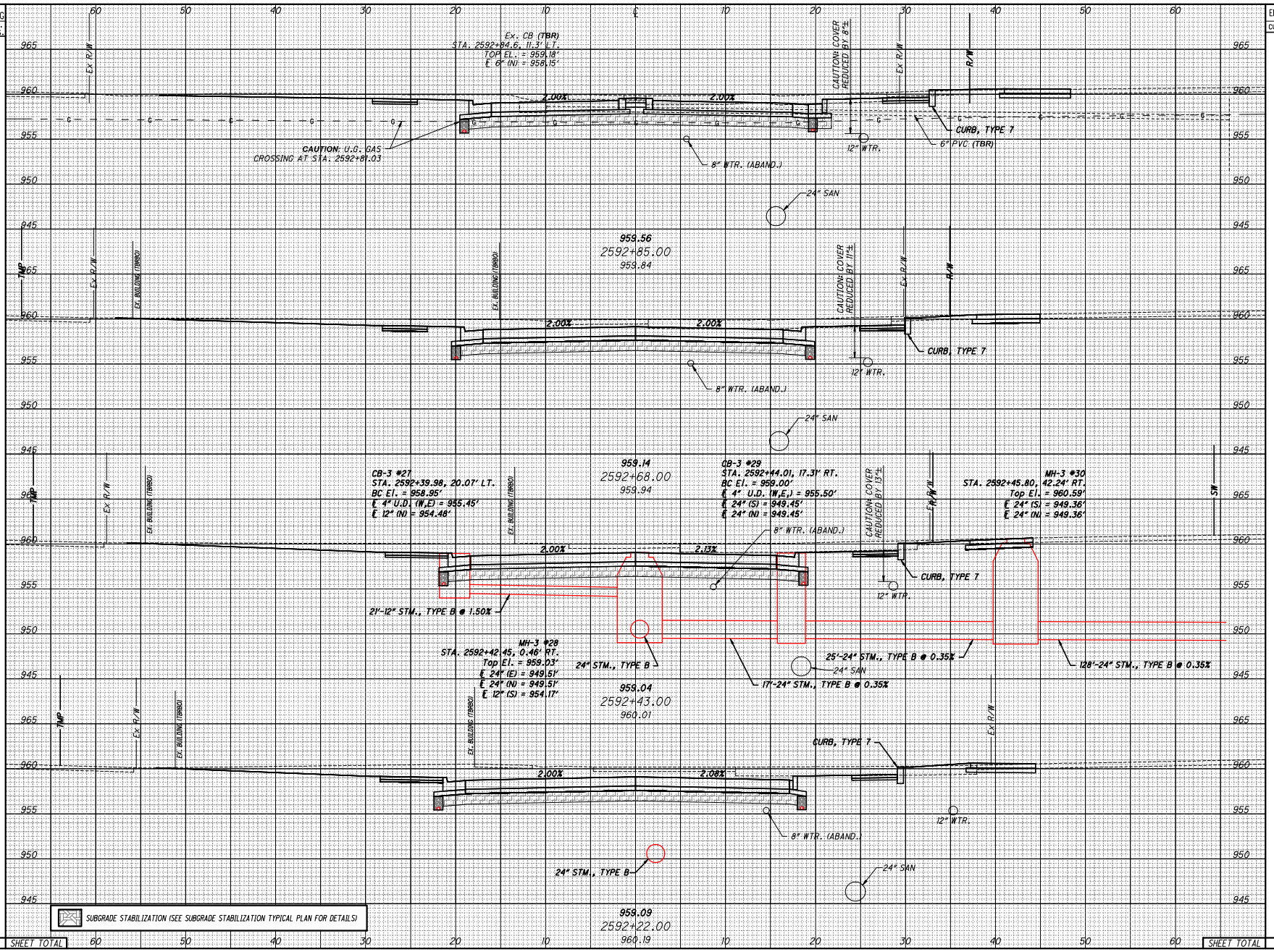
CROSS SECTIONS - S.R. 31
STA. 2590+89.00 TO STA. 2591+74.50

DESIGN AGENCY
CHOICE ONE ENGINEERING

DESIGNER	DMS
REVIEWER	AJH 3-2025
PROJECT ID	121008
SHEET	P.42
TOTAL	93



HAR-US68/SR31-ROUNDABOUT

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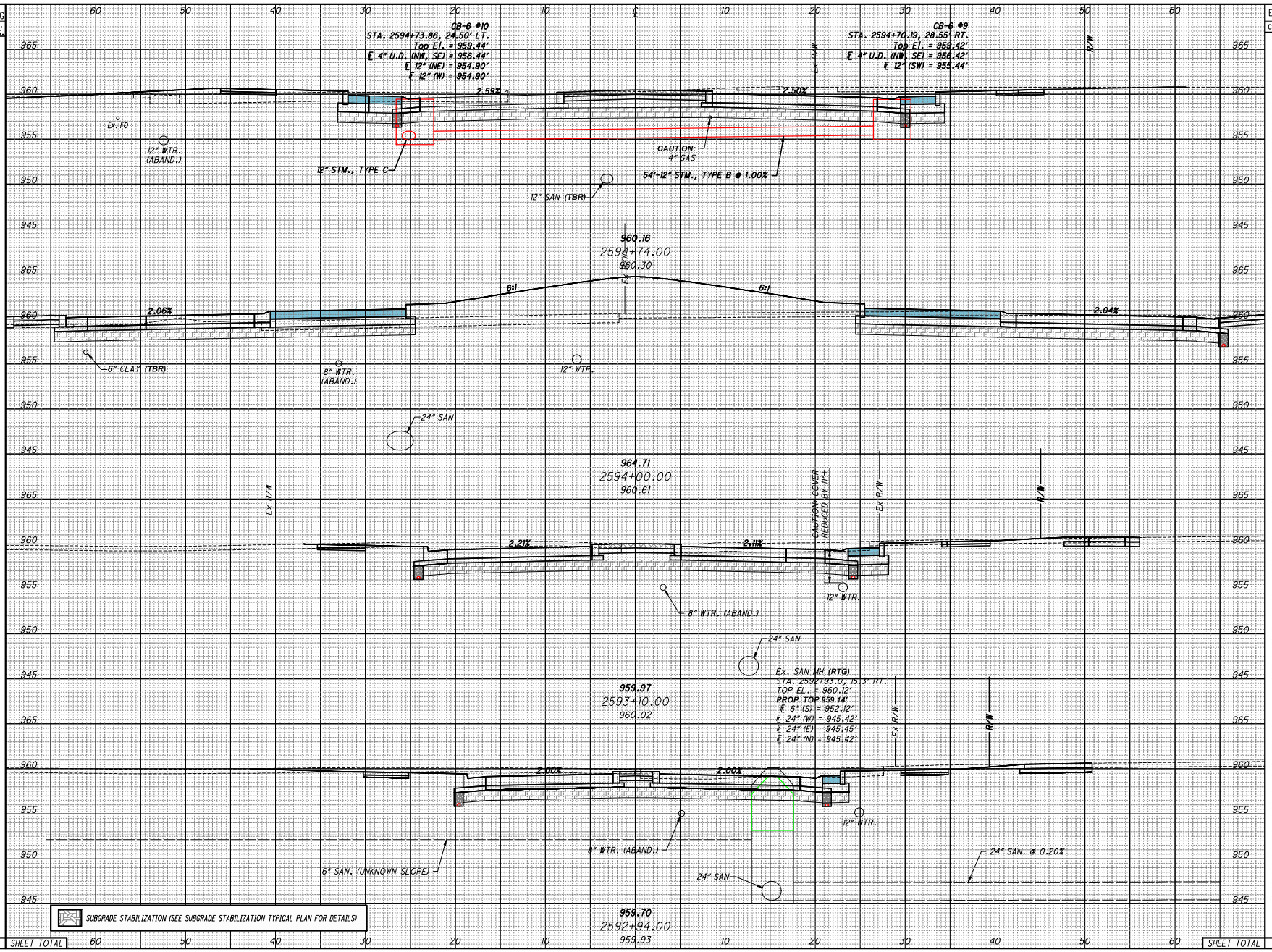
CROSS SECTIONS - S.R. 31
STA. 2592+22.00 TO STA. 2592+85.00

DESIGN AGENCY
CHOICE ONE ENGINEERING

DESIGNER	DMS
REVIEWER	AJH 3-2025
PROJECT ID	121008
SHEET	P.43
TOTAL	93



HAR-US68/SR31-ROUNDABOUT

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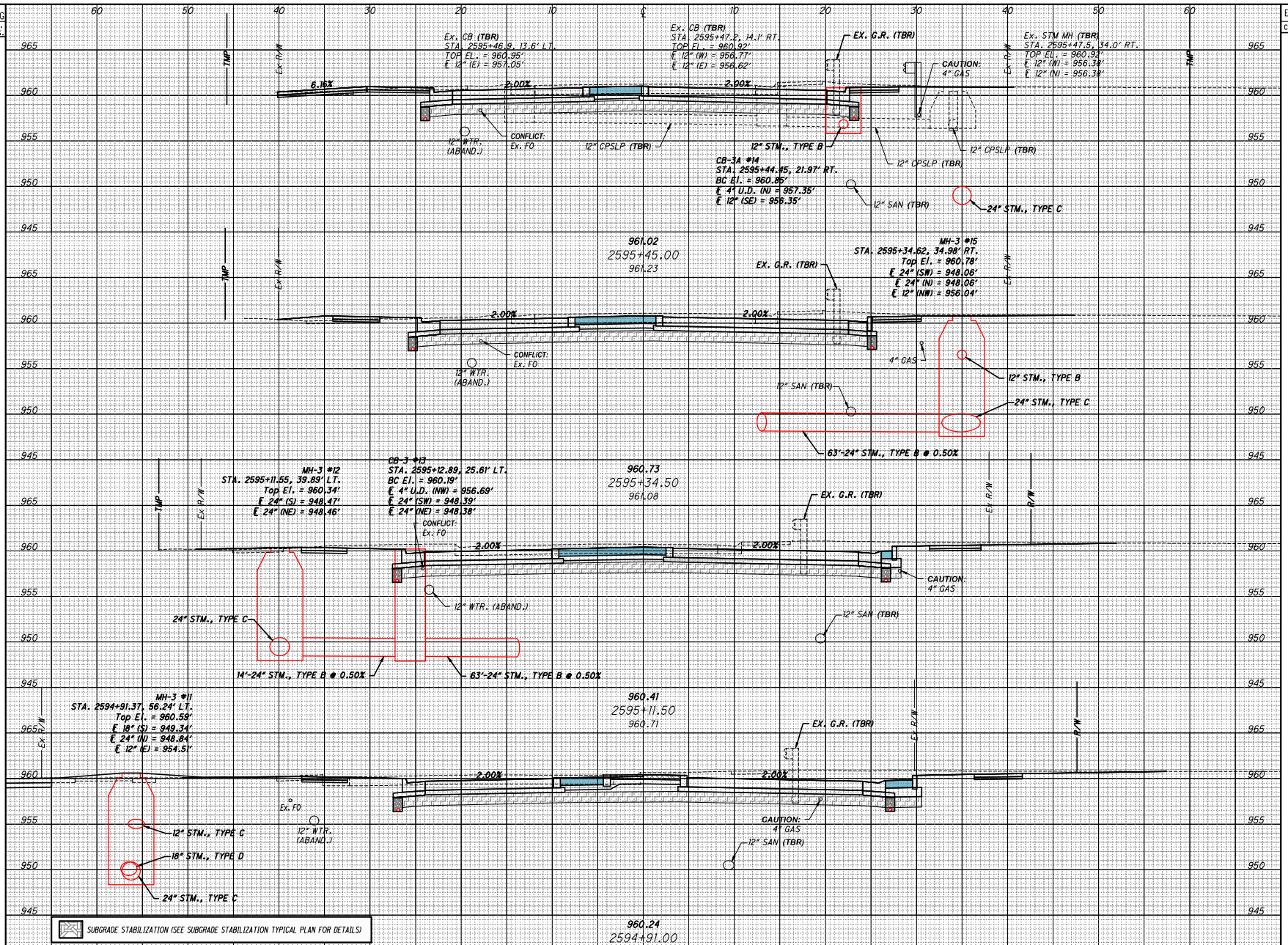
CROSS SECTIONS - S.R. 31
STA. 2592+94.00 TO STA. 2594+73.00

DESIGN AGENCY
CHOICE ONE ENGINEERING

DESIGNER	DMS
REVIEWER	AJH 3-2025
PROJECT ID	121008
SHEET	P.44
TOTAL	93



HAR-US68/SR31-ROUNDABOUT

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CROSS SECTIONS - S.R. 31
STA. 2594+91.00 TO STA. 2595+45.00

DESIGN AGENCY
CHOICE ONE ENGINEERING

DESIGNER	DMS
REVIEWER	AJH 3-2025
PROJECT ID	121008
SHEET	P.45
TOTAL	93

HAR-US68/SR31-ROUNDABOUT

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SEEDING: END WIDTH | SQ. YDS.

END AREA: CUT | FILL

VOLUME: CUT | FILL

60 50 40 30 20 10 ℄ 10 20 30 40 50 60

42.0' O/O BRIDGE (HAR-68-0940)

965 960 955 950 945

2596+15.00
962.05

TMP | Ex. R/W | TMP

EX. G.R. (TBR)

1.71% | 1.34%

Ex. FO

12" WTR. (ABAND.)

4" GAS

12" CPSLP (TBR)

12" SAN (TBR)

24" STM., TYPE C

2595+78.00
961.51

DRIVE

5.2' WALK

1.88% | 1.56% | 2.00% | 2.00%

CONFLICT: Ex. FO

12" WTR. (ABAND.)

961.37
2595+64.00
961.45

SUBGRADE STABILIZATION (SEE SUBGRADE STABILIZATION TYPICAL PLAN FOR DETAILS)

SHEET TOTAL

CROSS SECTIONS - S.R. 31
STA. 2595+54.00 TO STA. 2596+15.00

DESIGN AGENCY

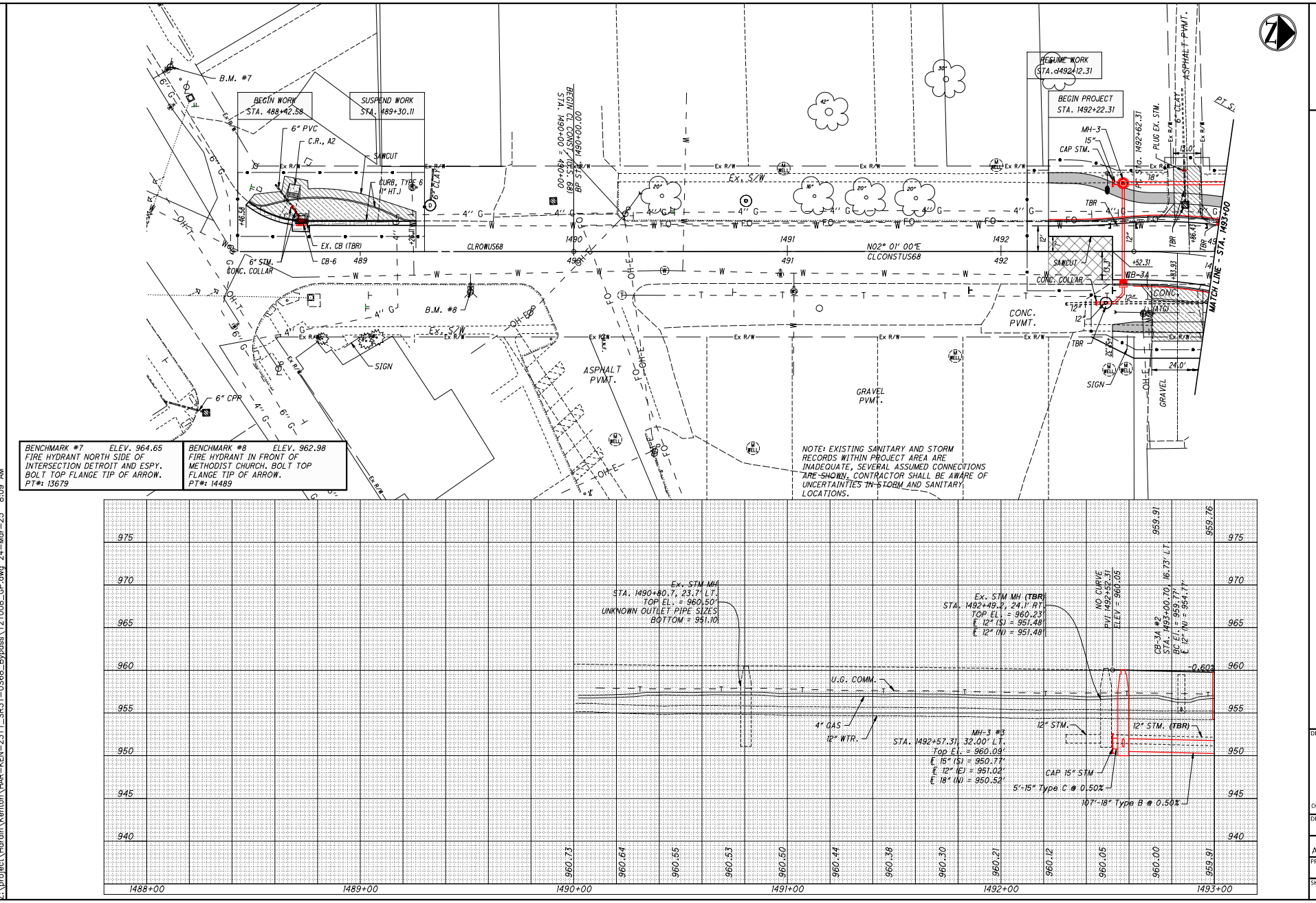
CHOICE ONE ENGINEERING

DESIGNER: DMS

REVIEWER: AJH 3-2025

PROJECT ID: 121008

SHEET: P.46 | TOTAL: 93



HAR-US68/SR31-ROUNDABOUT

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HORIZONTAL SCALE IN FEET
0 10 20 40

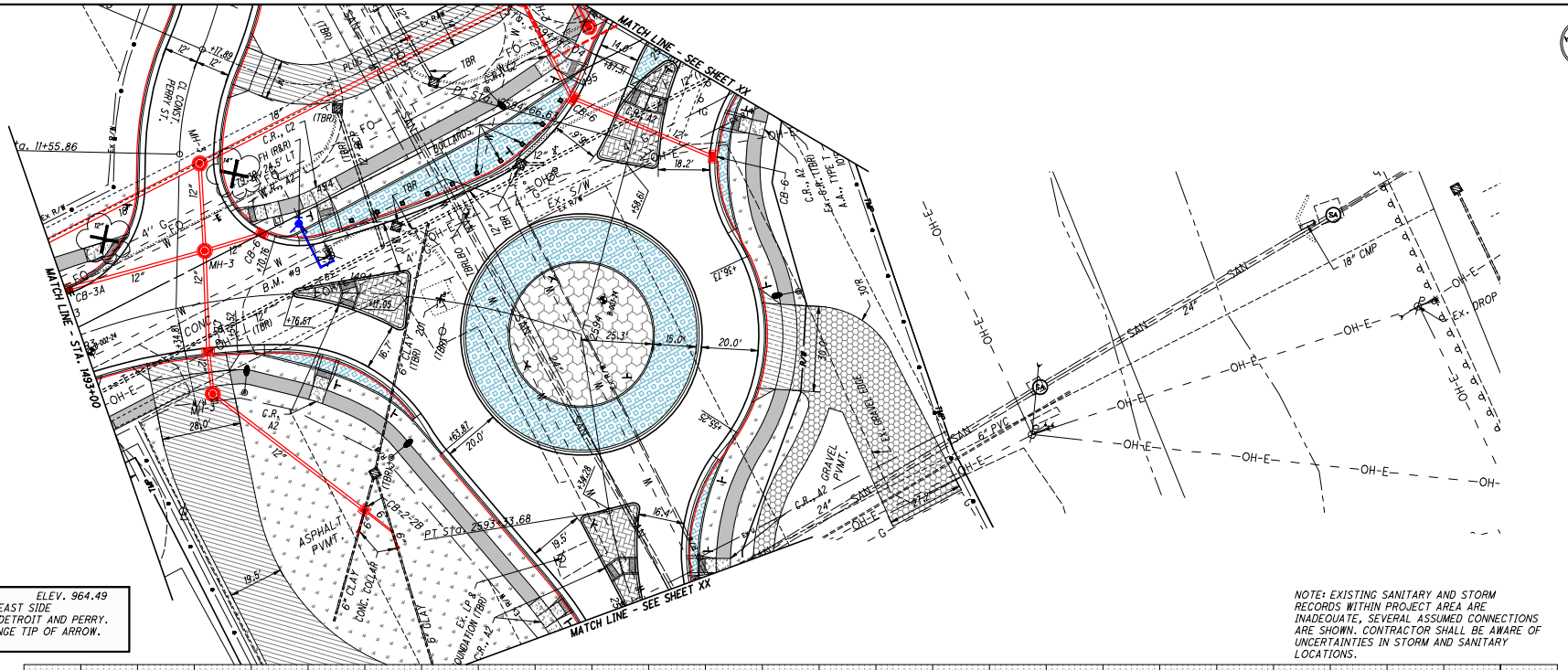
PLAN AND PROFILE - U.S. 68
STA. 1488+00 TO STA. 1493+00

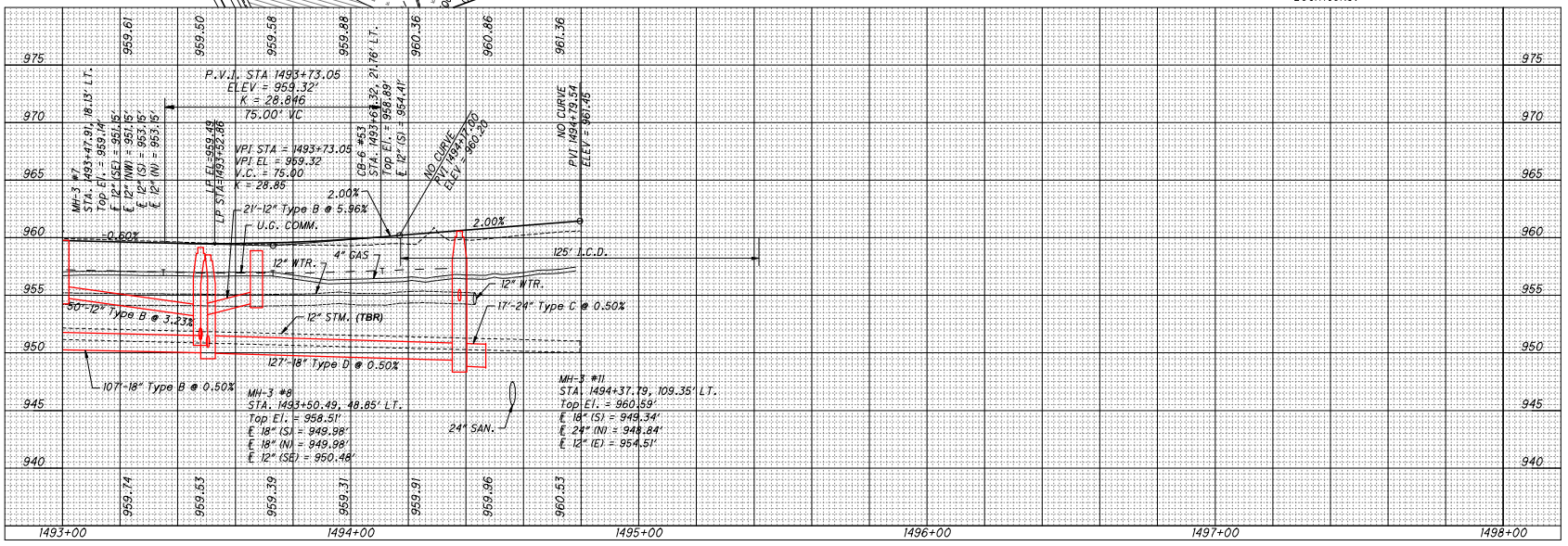
DESIGN AGENCY
CHOICE ONE ENGINEERING

DESIGNER	DMS
REVIEWER	AJH 3-2025
PROJECT ID	121008
SHEET	P.47
TOTAL	93

HAR-US68/SR31-ROUNDABOUT

Z:\project\Hardin\Kenton\HAR-KEN-2311_SR31-US68_Bypass\121008_GP.dwg 24-Mar-25 8:09 AM

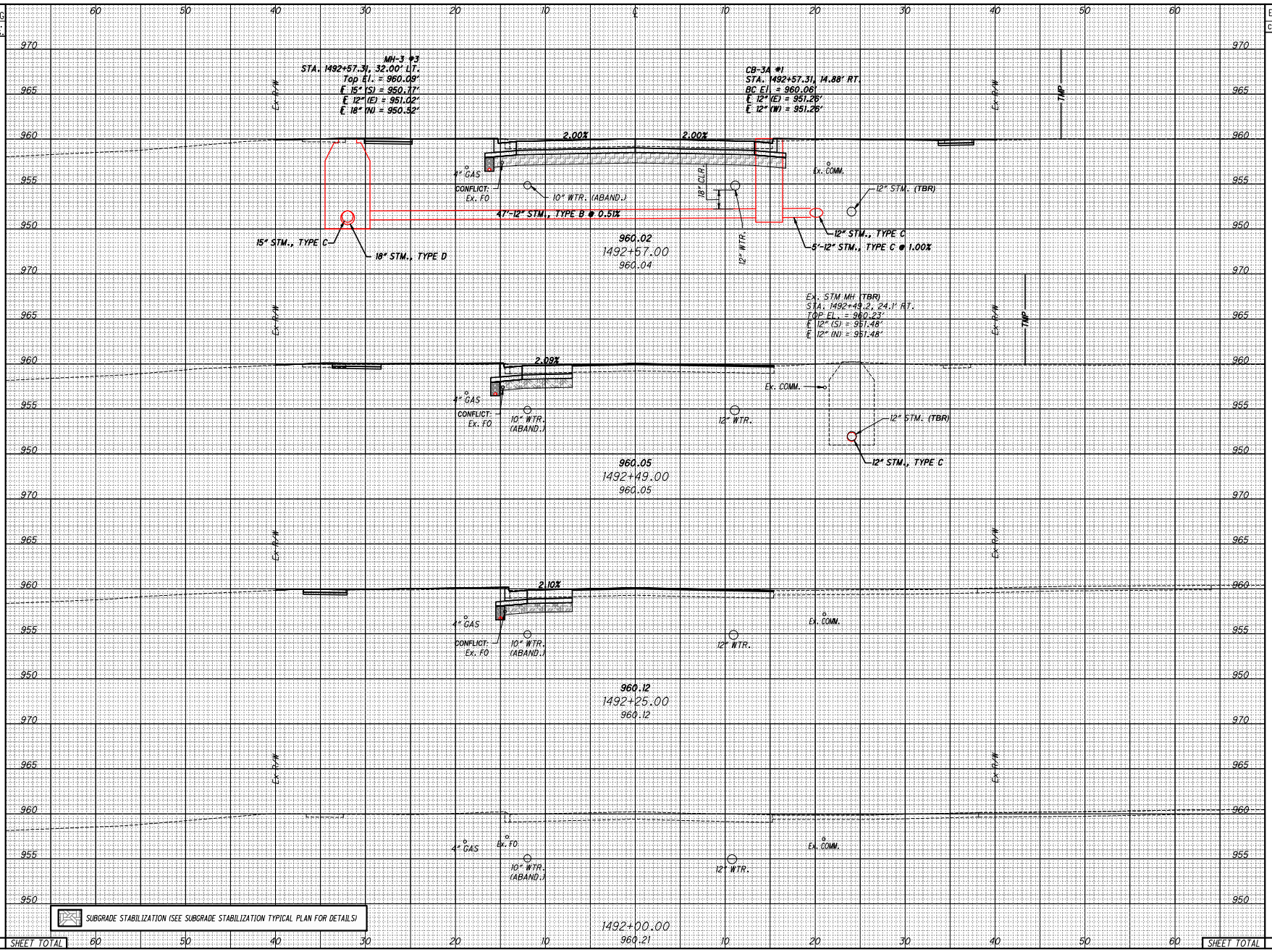




PLAN AND PROFILE - U.S. 68
STA. 1493+00 TO STA. 1498+00

DESIGN AGENCY
CHOICE ONE ENGINEERING

DESIGNER	DMS
REVIEWER	AJH 3-2025
PROJECT ID	121008
SHEET	P.48
TOTAL	93



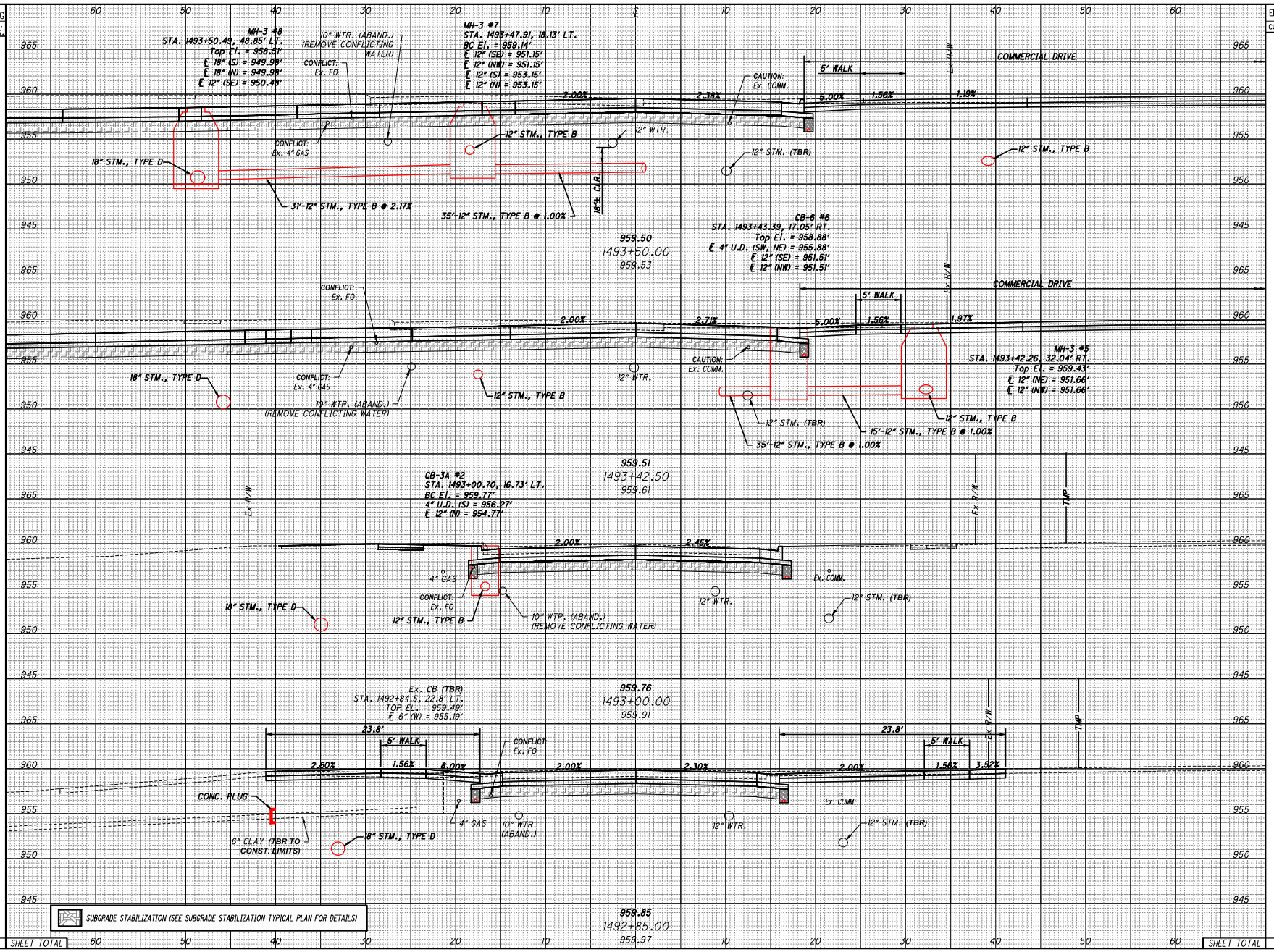
HAR-US68/SR31-ROUNDABOUT

Z:\project\Hardin\Kenton\HAR-KEN-2311_SR31-US68_Bypass\121008_XS.dwg 24-Mar-25 8:09 AM

CROSS SECTIONS - U.S. 68
STA. 1492+00.00 TO STA. 1492+57.00

DESIGN AGENCY
CHOICE ONE ENGINEERING

DESIGNER	DMS
REVIEWER	AJH 3-2025
PROJECT ID	121008
SHEET	P.49
TOTAL	93



HAR-US68/SR31-ROUNDABOUT

Z:\project\Hardin\Kenton\HAR-KEN-2311_SR31-US68_Bypass\121008_XS.dwg 24-Mar-25 8:10 AM

CROSS SECTIONS - U.S. 68
STA. 1492+85.00 TO STA. 1493+50.00

DESIGN AGENCY
CHOICE ONE ENGINEERING

DESIGNER	DMS
REVIEWER	AJH 3-2025
PROJECT ID	121008
SHEET	P.50
TOTAL	93

HAR-US68/SR31-ROUNDABOUT

Z:\project\Hardin\Kenton\HAR-KEN-2311_SR31-US68_Bypass\121008_XS.dwg 24-Mar-25 8:10 AM

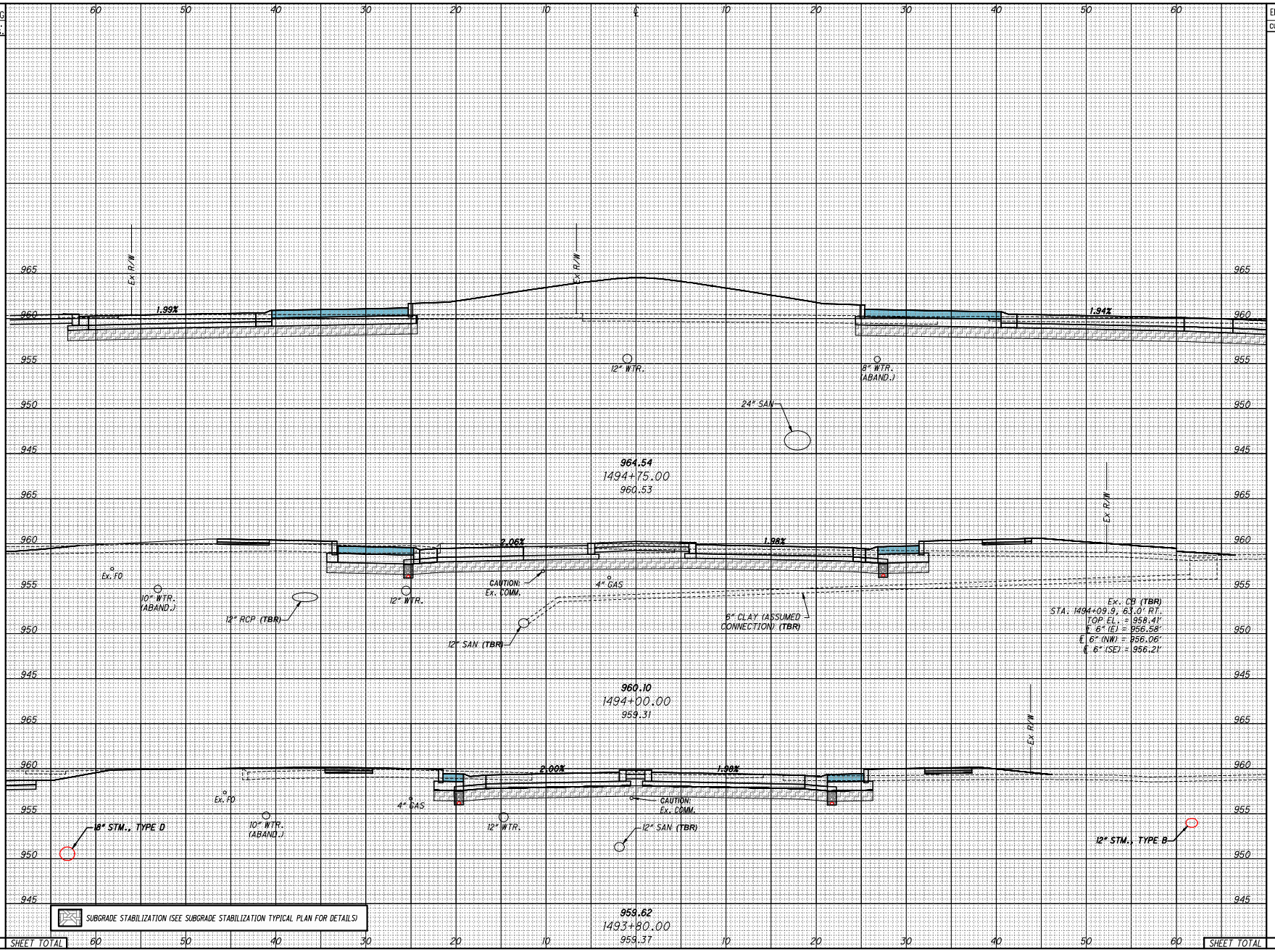
SEEDING
END WIDTH | SQ. YDS.

END AREA
CUT | FILL

VOLUME
CUT | FILL

SHEET TOTAL

SHEET TOTAL



CROSS SECTIONS - U.S. 68
STA. 1493+80.00 TO STA. 1494+75.00

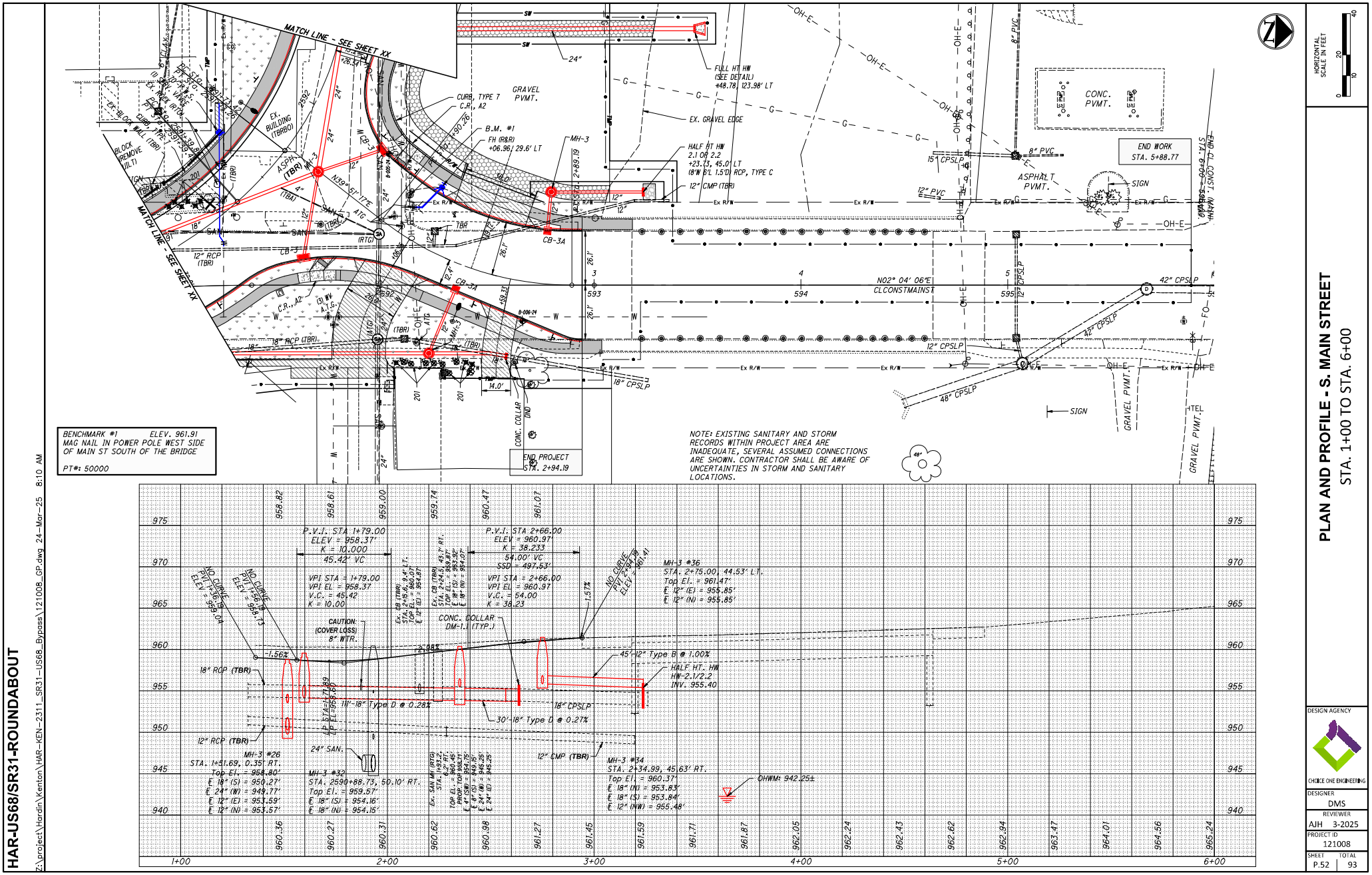
DESIGN AGENCY
CHOICE ONE ENGINEERING

DESIGNER
DMS

REVIEWER
AJH 3-2025

PROJECT ID
121008

SHEET P.51 | TOTAL 93



HAR-US68/SR31-ROUNDABOUT

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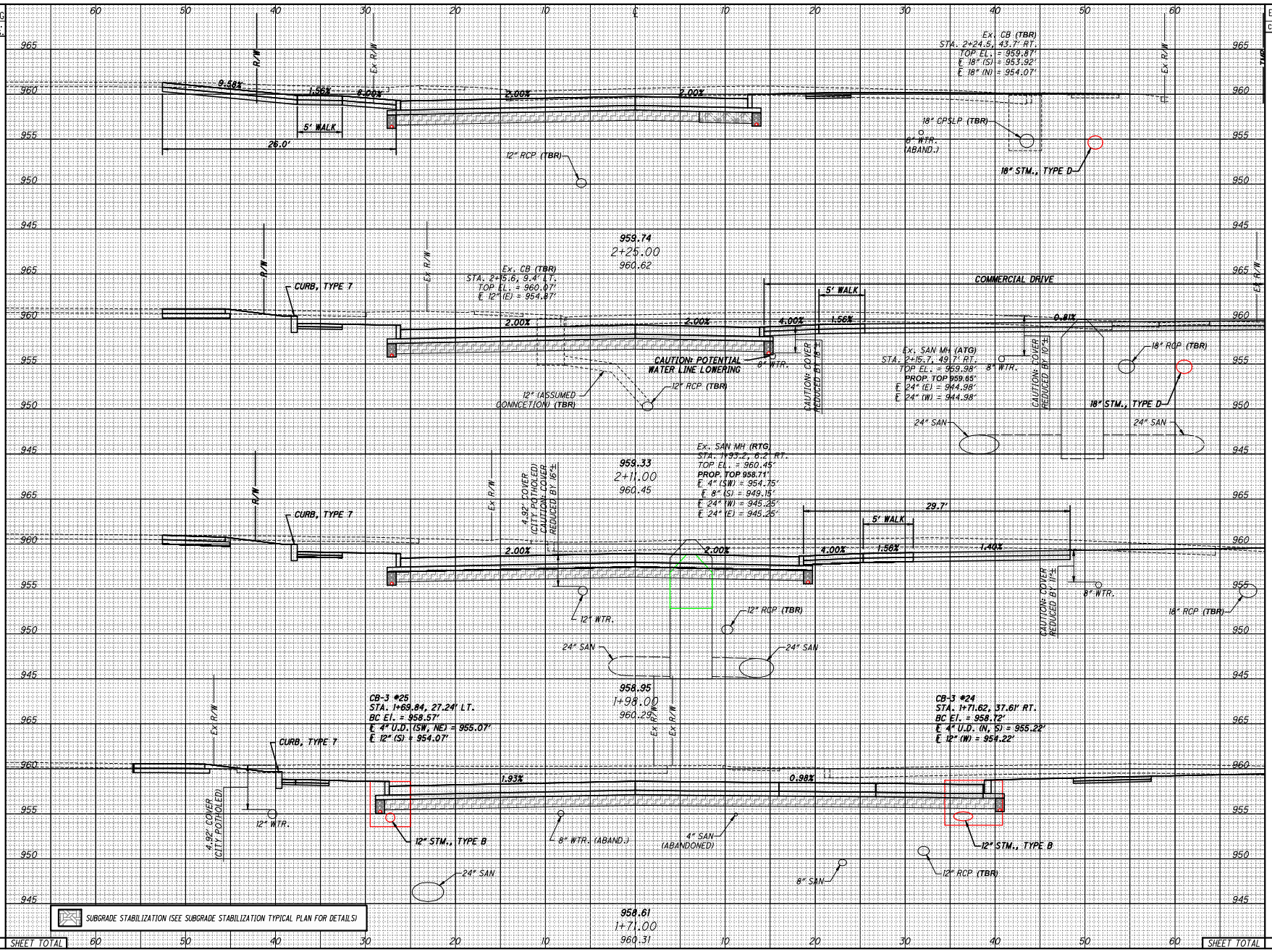
HORIZONTAL SCALE IN FEET 0 10 20 40

PLAN AND PROFILE - S. MAIN STREET

STA. 1+00 TO STA. 6+00

DESIGN AGENCY
CHOICE ONE ENGINEERING

DESIGNER	DMS
REVIEWER	AJH 3-2025
PROJECT ID	121008
SHEET	P.52
TOTAL	93



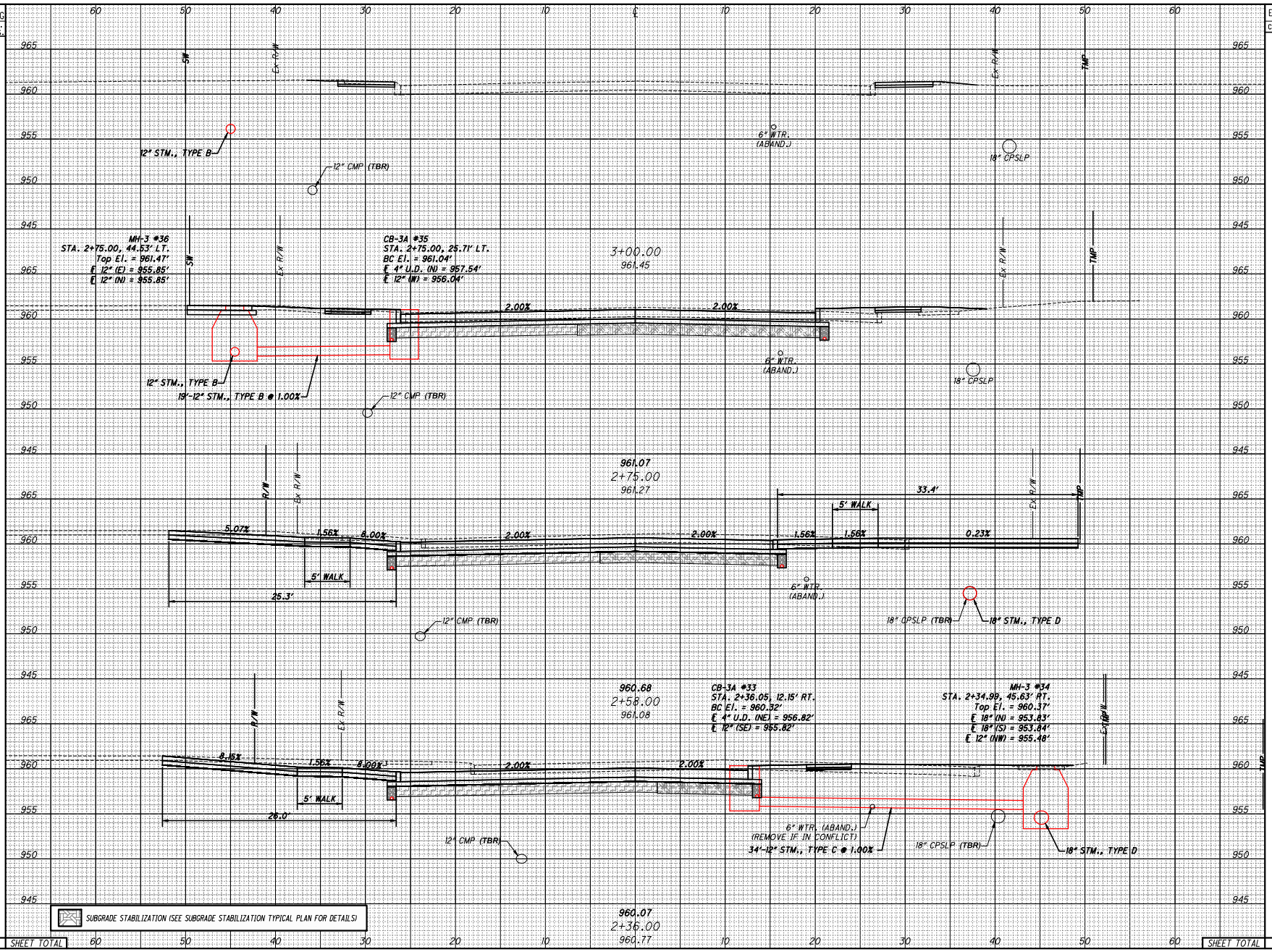
HAR-US68/SR31-ROUNDABOUT

Z:\project\Hardin\Kenton\HAR-KEN-2311_SR31-US68_Bypass\121008_XS.dwg 24-Mar-25 8:10 AM

CROSS SECTIONS - S. MAIN STREET
STA. 1+71.00 TO STA. 2+25.00

DESIGN AGENCY
CHOICE ONE ENGINEERING

DESIGNER	DMS
REVIEWER	AJH 3-2025
PROJECT ID	121008
SHEET	P.53
TOTAL	93



HAR-US68/SR31-ROUNDABOUT

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CROSS SECTIONS - S. MAIN STREET
STA. 2+36.00 TO STA. 3+00.00

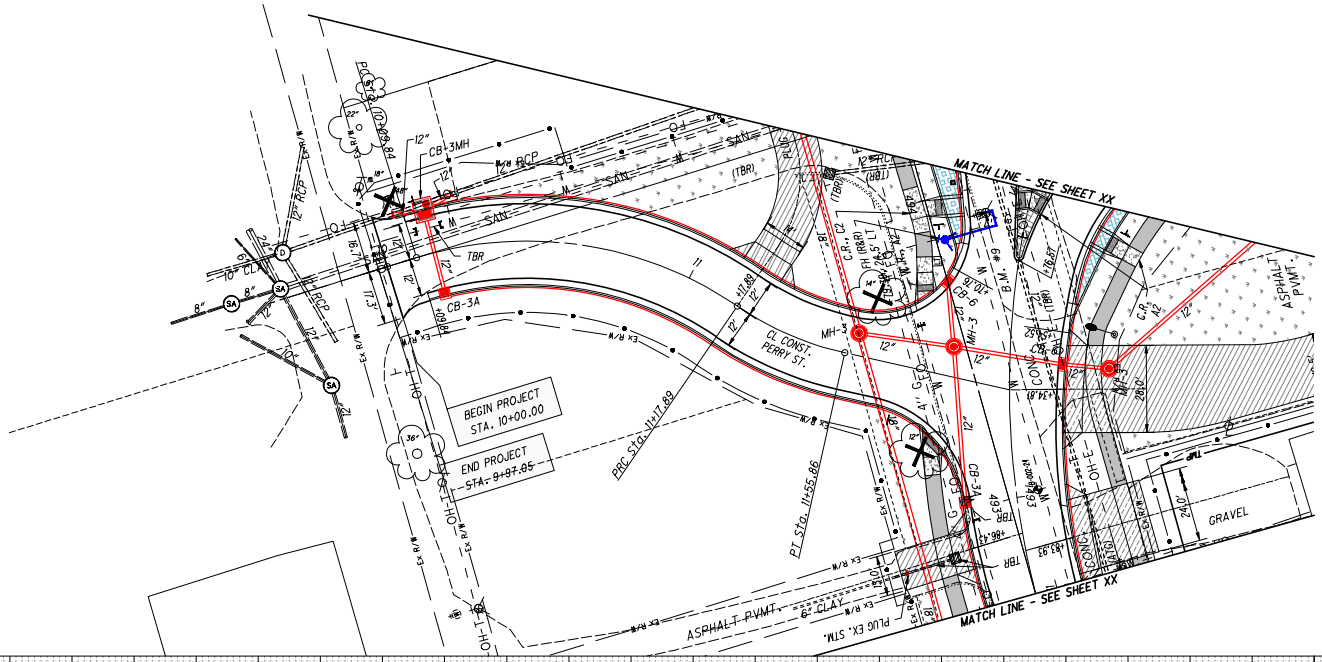
DESIGN AGENCY
CHOICE ONE ENGINEERING

DESIGNER	DMS
REVIEWER	AJH 3-2025
PROJECT ID	121008
SHEET	P.54
TOTAL	93

HAR-US68/SR31-ROUNDABOUT

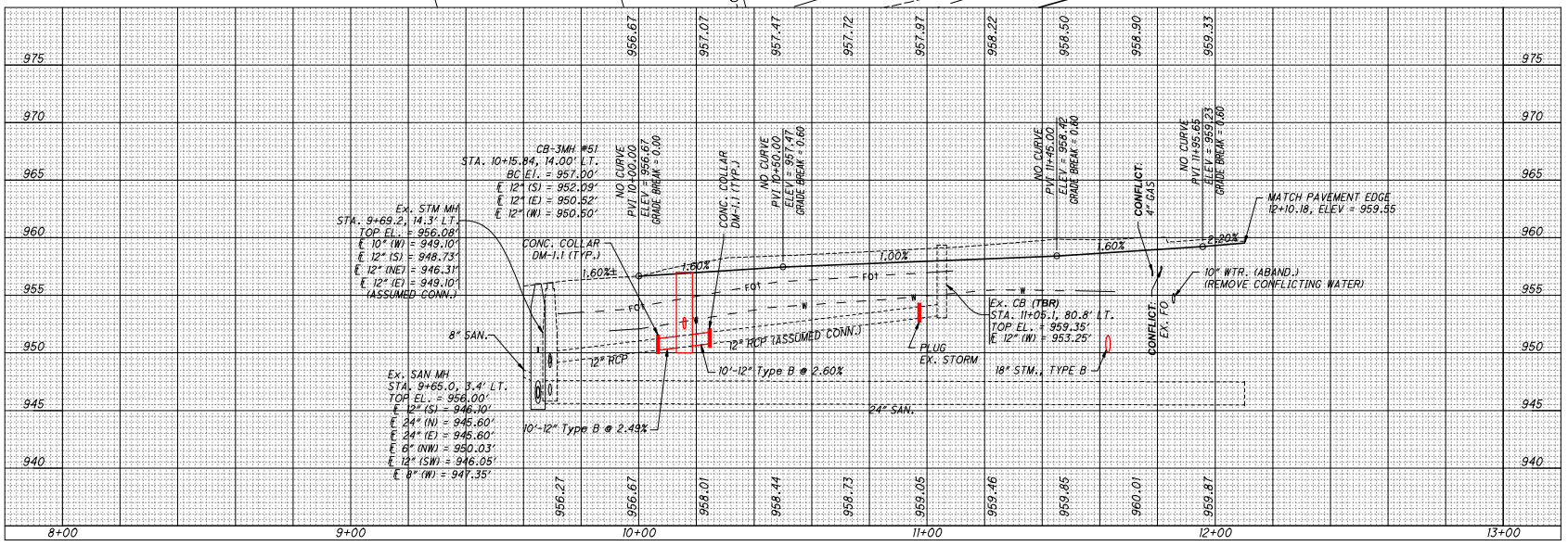
Z:\project\Hardin\Kenton\HAR-KEN-2311_SR31-US68_Bypass\121008_GP.dwg 24-Mar-25 8:11 AM

NOTE: EXISTING SANITARY AND STORM RECORDS WITHIN PROJECT AREA ARE INADEQUATE, SEVERAL ASSUMED CONNECTIONS ARE SHOWN. CONTRACTOR SHALL BE AWARE OF UNCERTAINTIES IN STORM AND SANITARY LOCATIONS.



BENCHMARK #1 ELEV. 961.91
MAG NAIL IN POWER POLE WEST SIDE OF MAIN ST SOUTH OF THE BRIDGE

PT#: 50000



HORIZONTAL SCALE IN FEET
0 10 20 40

PLAN AND PROFILE - PERRY STREET
STA. 8+00 TO STA. 13+00

DESIGN AGENCY
CHOICE ONE ENGINEERING

DESIGNER	DMS
REVIEWER	AJH 3-2025
PROJECT ID	121008
SHEET	P.55
TOTAL	93

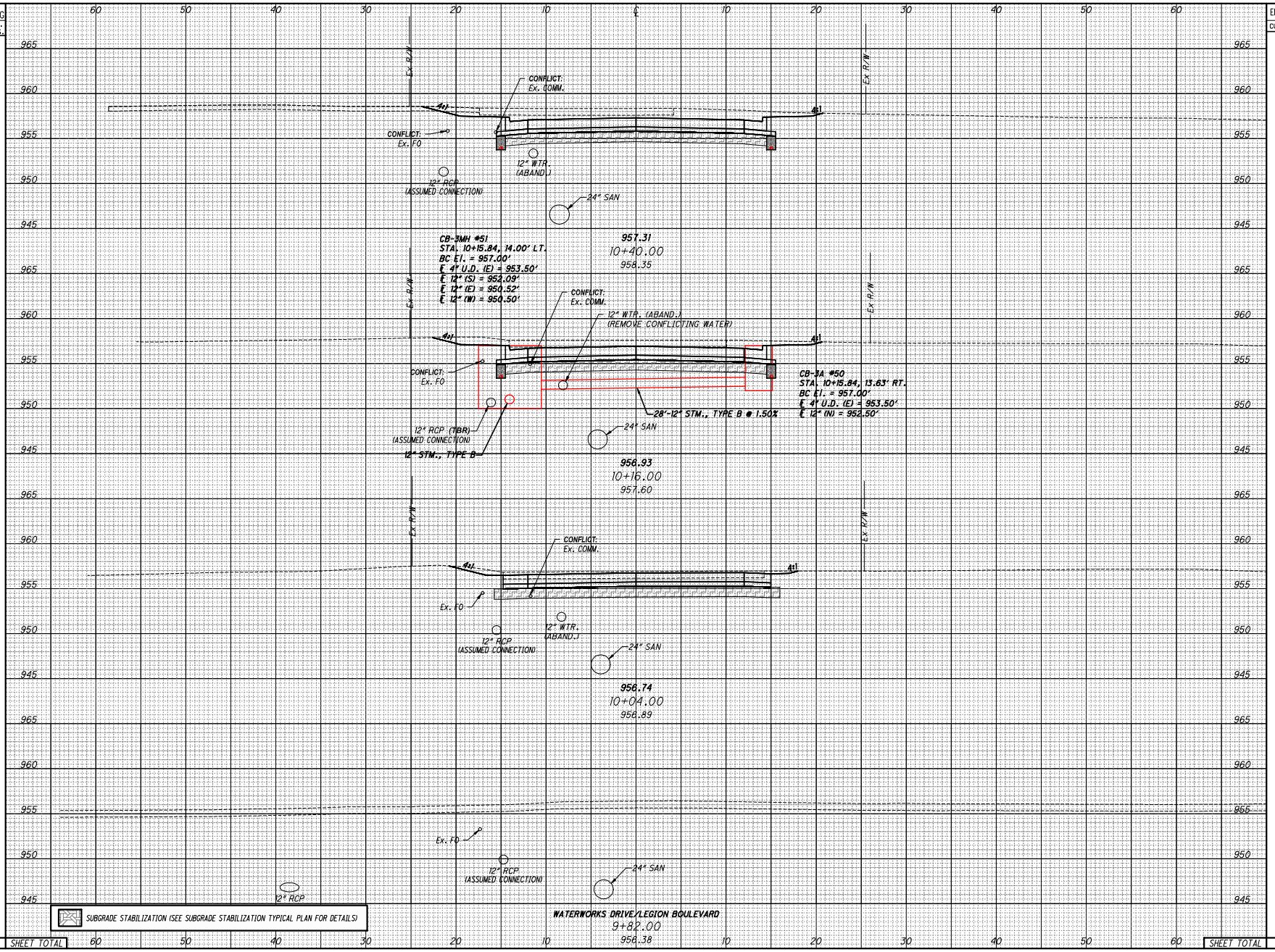
HAR-US68/SR31-ROUNDABOUT

Z:\project\Hardin\Kenton\HAR-KEN-2311_SR31-US68_Bypass\121008_XS.dwg 24-Mar-25 8:11 AM

SEEDING
END WIDTH | SQ. YDS.

END AREA
CUT | FILL

VOLUME
CUT | FILL



CROSS SECTIONS - PERRY STREET
STA. 9+82.00 TO STA. 10+40.00

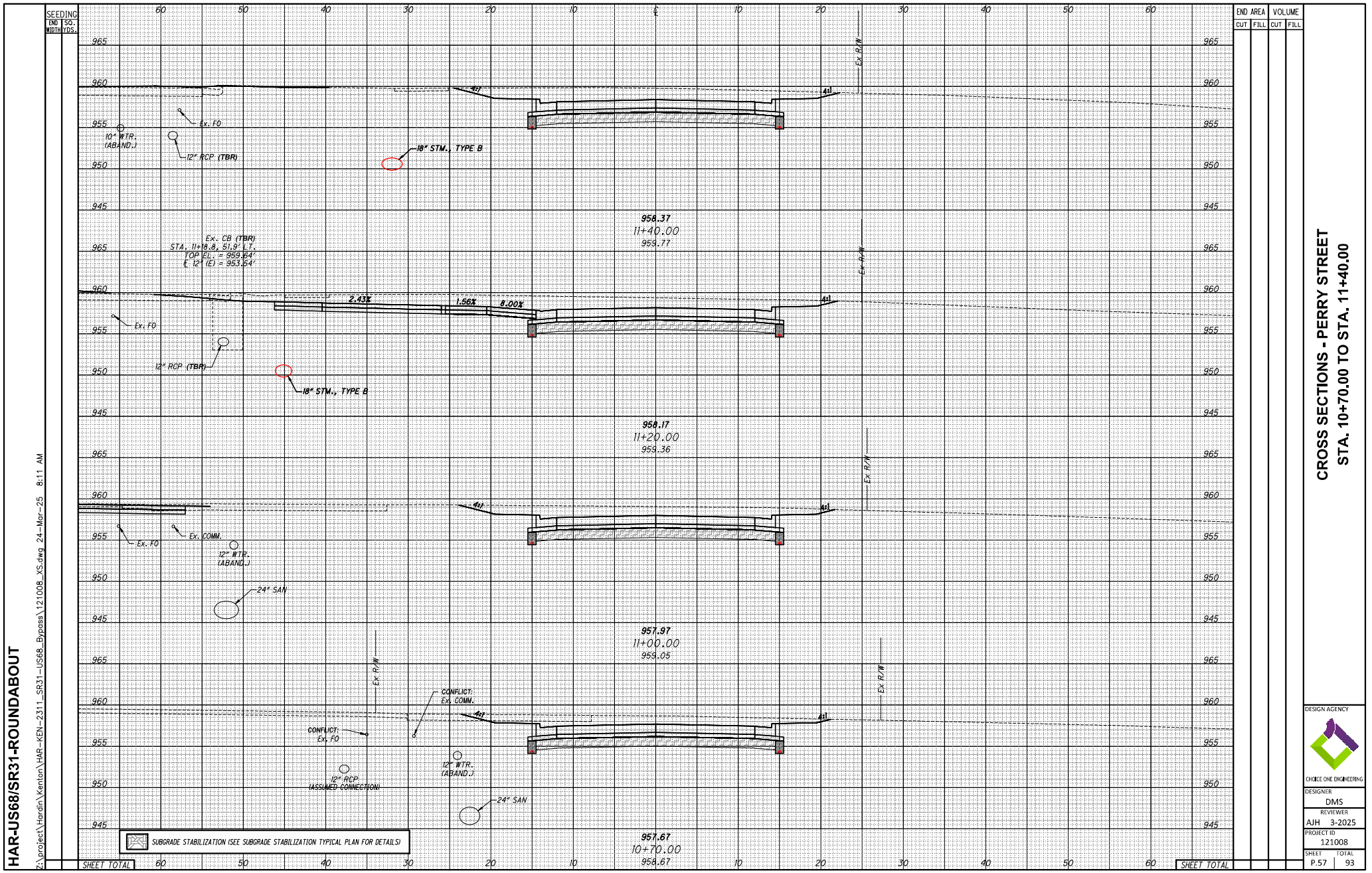
DESIGN AGENCY
CHOICE ONE ENGINEERING

DESIGNER
DMS

REVIEWER
AJH 3-2025

PROJECT ID
121008

SHEET P.56 | TOTAL 93


SEEDING
END WIDTH
SQ. YDS.
END AREA
CUT
FILL
VOLUME
CUT
FILL
HAR-US68/SR31-ROUNDABOUT
Z:\project\Hardin\Kenton\HAR-KEN-2311_SR31-US68_Bypass\121008_XS.dwg 24-Mar-25 8:11 AM
CROSS SECTIONS - PERRY STREET
STA. 10+70.00 TO STA. 11+40.00
Ex. F/O
10" WTR. (ABAND.)
12" RCP (TBR)
18" STM., TYPE B
Ex. R/W
4:1
958.37
11+40.00
959.77
Ex. CB (TBR)
STA. 11+18.8, 51.9' LT.
TOP EL. = 959.64'
E 12" (E) = 953.54'
2.43%
1.56%
8.00%
12" RCP (TBR)
18" STM., TYPE B
958.17
11+20.00
959.36
Ex. COMM.
12" WTR. (ABAND.)
24" SAN
957.97
11+00.00
959.05
CONFLICT: Ex. COMM.
CONFLICT: Ex. F/O
12" RCP (ASSUMED CONNECTION)
12" WTR. (ABAND.)
24" SAN
SUBGRADE STABILIZATION (SEE SUBGRADE STABILIZATION TYPICAL PLAN FOR DETAILS)
957.67
10+70.00
958.67
SHEET TOTAL
SHEET TOTAL
DESIGN AGENCY
CHOICE ONE ENGINEERING
DESIGNER
DMS
REVIEWER
AJH 3-2025
PROJECT ID
121008
SHEET
P.57
TOTAL
93

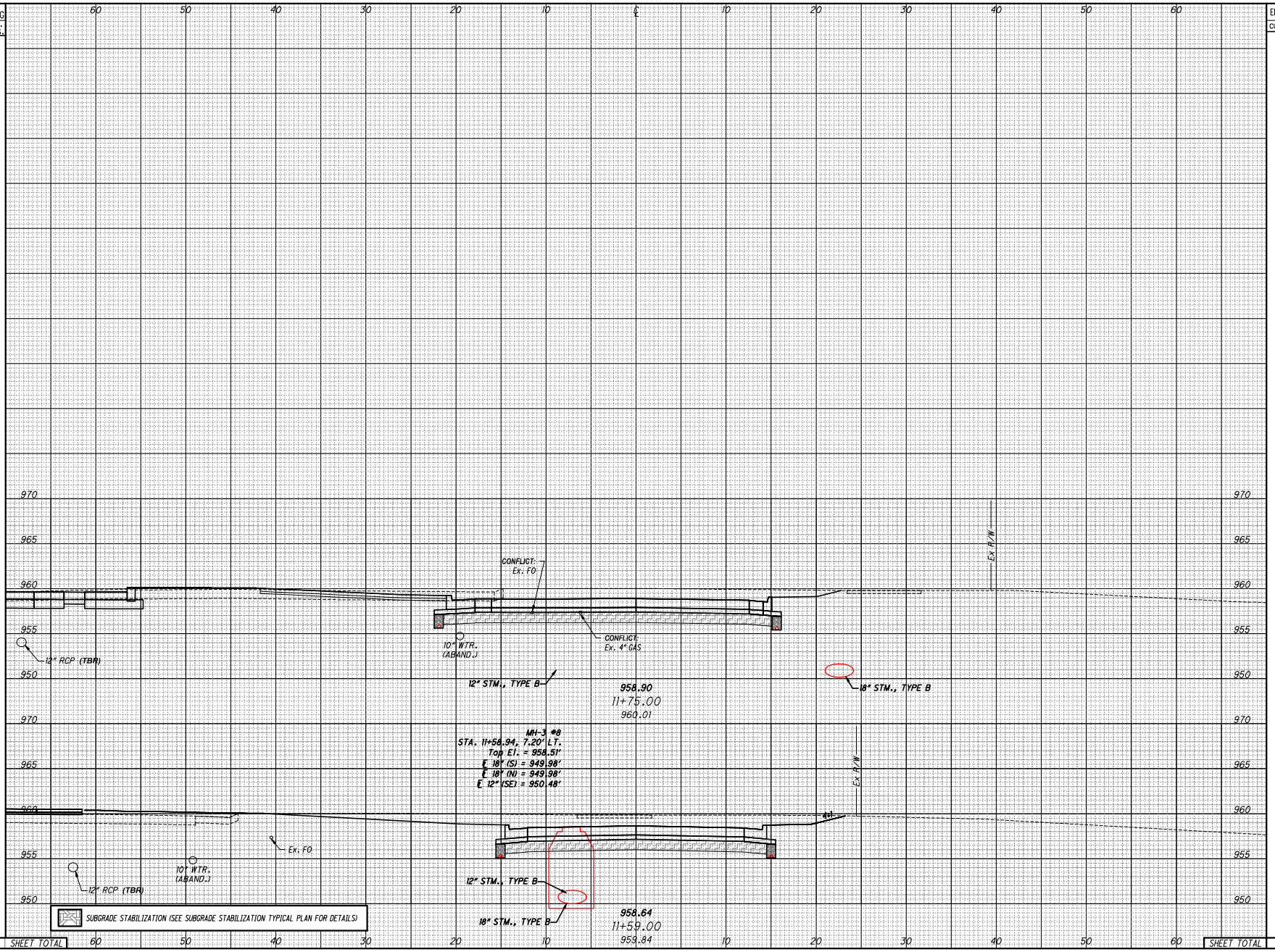
HAR-US68/SR31-ROUNDABOUT

Z:\project\Hardin\Kenton\HAR-KEN-2311_SR31-US68_Bypass\121008_XS.dwg 24-Mar-25 8:11 AM

SEEDING
END WIDTH | SQ. YDS.

END AREA
CUT | FILL

VOLUME
CUT | FILL



CROSS SECTIONS - PERRY STREET
STA. 11+59.00 TO STA. 11+75.00

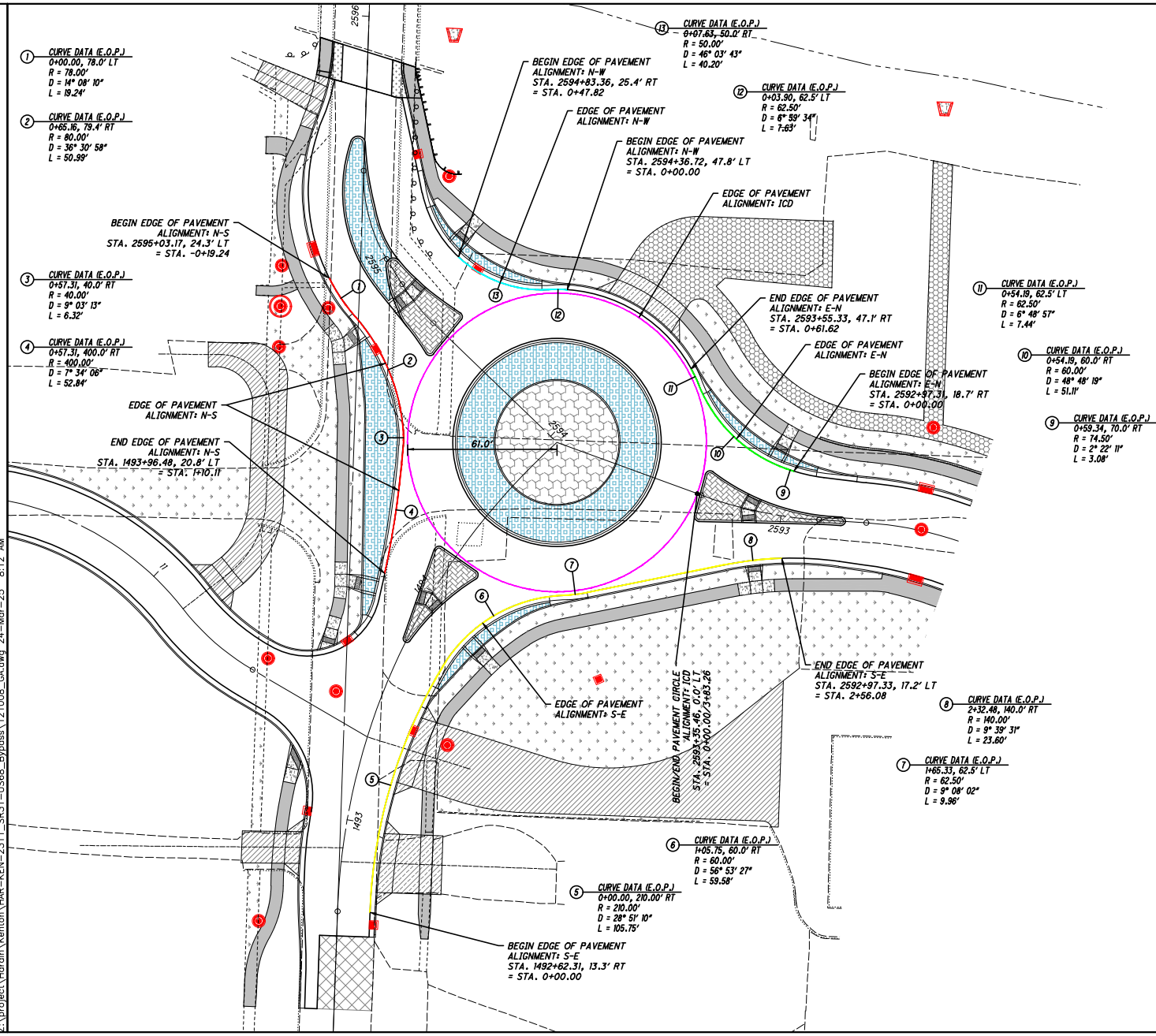
DESIGN AGENCY
CHOICE ONE ENGINEERING

DESIGNER
DMS

REVIEWER
AJH 3-2025

PROJECT ID
121008

SHEET P.58 | TOTAL 93



HAR-US68/SR31-ROUNDABOUT

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HORIZONTAL SCALE IN FEET
0 10 20 40

INTERSECTION DETAILS - ALIGNMENTS

DESIGN AGENCY
CHOICE ONE ENGINEERING

DESIGNER	DMS
REVIEWER	AJH 3-2025
PROJECT ID	121008
SHEET	P.59
TOTAL	93

HAR-US68/SR31-ROUNDABOUT

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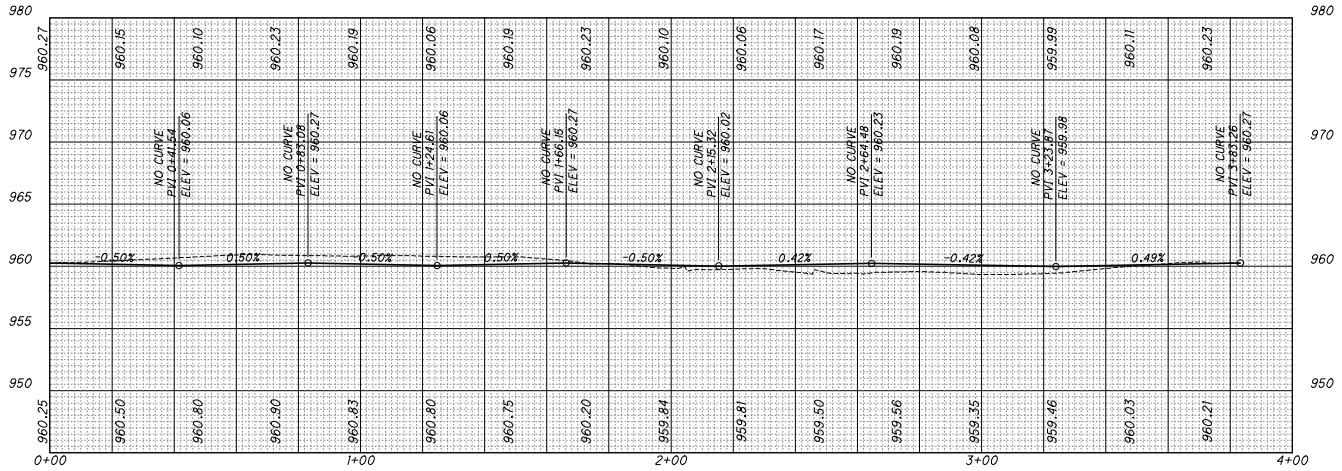
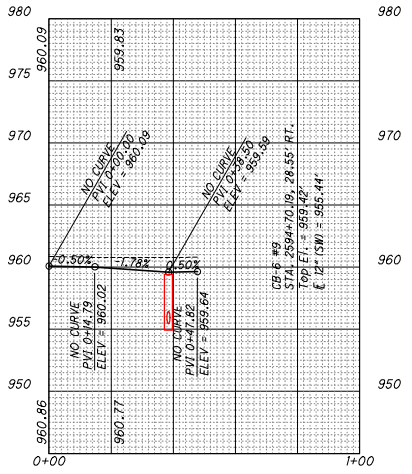
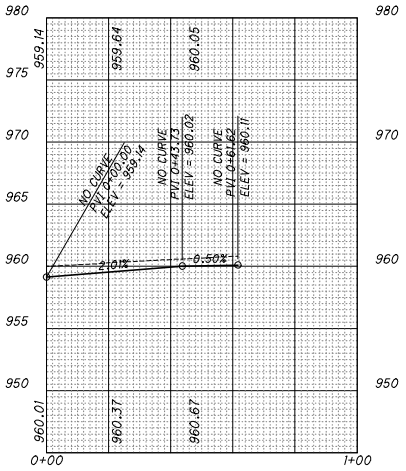


EDGE OF PAVEMENT - S-E



EDGE OF PAVEMENT - N-W

EDGE OF PAVEMENT - ICD



EDGE OF PAVEMENT - E-N

STORM STRUCTURE STATIONING AND OFFSETS BASED ON THE NEAREST MAINLINE ROAD CENTERLINE OF CONSTRUCTION

HORIZONTAL SCALE IN FEET
0 10 20 40

INTERSECTION DETAILS - PROFILES

DESIGN AGENCY
CHOICE ONE ENGINEERING

DESIGNER	DMS
REVIEWER	AJH 3-2025
PROJECT ID	121008
SHEET	P.60
TOTAL	93

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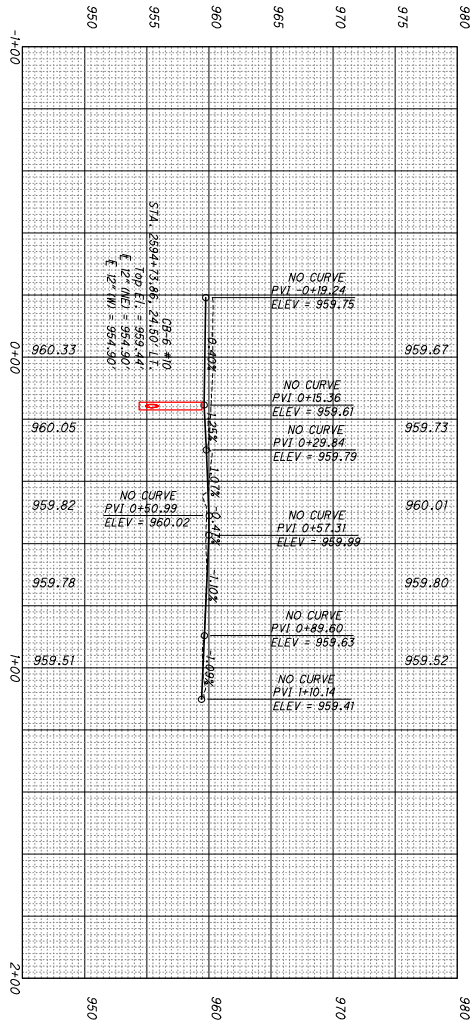


EDGE OF PAVEMENT - N-S

STORM STRUCTURE STATIONING AND OFFSETS BASED ON THE NEAREST MAINLINE ROAD CENTERLINE OF CONSTRUCTION

INTERSECTION DETAILS - PROFILES

HORIZONTAL SCALE IN FEET
0 20
10 40

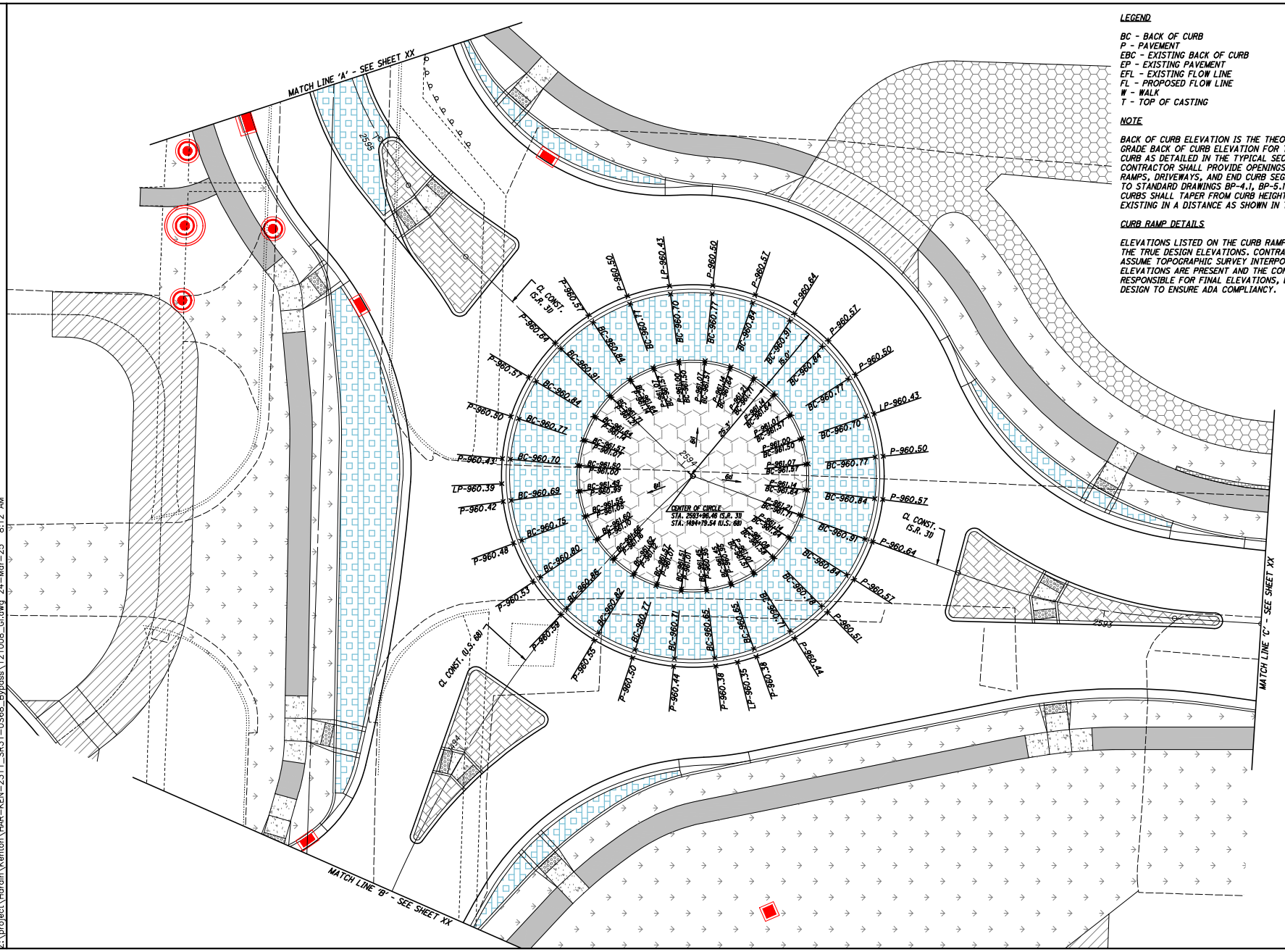
SHEET	TOTAL
P 61	93

PROJECT ID: 121008

AJH 3-2025
REVIEWER

DMS
DESIGNER

CHOICE ONE ENGINEERING
DESIGN AGENCY



LEGEND

BC - BACK OF CURB
P - PAVEMENT
EBC - EXISTING BACK OF CURB
EP - EXISTING PAVEMENT
EFL - EXISTING FLOW LINE
FL - PROPOSED FLOW LINE
W - WALK
T - TOP OF CASTING

NOTE

BACK OF CURB ELEVATION IS THE THEORETICAL LINE AND GRADE BACK OF CURB ELEVATION FOR THE PROPOSED CURB AS DETAILED IN THE TYPICAL SECTIONS. CONTRACTOR SHALL PROVIDE OPENINGS FOR CURB RAMPS, DRIVEWAYS, AND END CURB SEGMENTS ACCORDING TO STANDARD DRAWINGS BP-4.1, BP-5.1, AND BP-7.1. END CURBS SHALL TAPER FROM CURB HEIGHT TO 1" OR MATCH EXISTING IN A DISTANCE AS SHOWN IN THE PLANS.

CURB RAMP DETAILS

ELEVATIONS LISTED ON THE CURB RAMP DETAILS ARE THE TRUE DESIGN ELEVATIONS. CONTRACTOR SHALL ASSUME TOPOGRAPHIC SURVEY INTERPOLATED ELEVATIONS ARE PRESENT AND THE CONTRACTOR IS RESPONSIBLE FOR FINAL ELEVATIONS, LAYOUTS, AND DESIGN TO ENSURE ADA COMPLIANCY.

HORIZONTAL SCALE IN FEET
0 5 10 20

INTERSECTION DETAILS

HAR-US68/SR31-ROUNDABOUT

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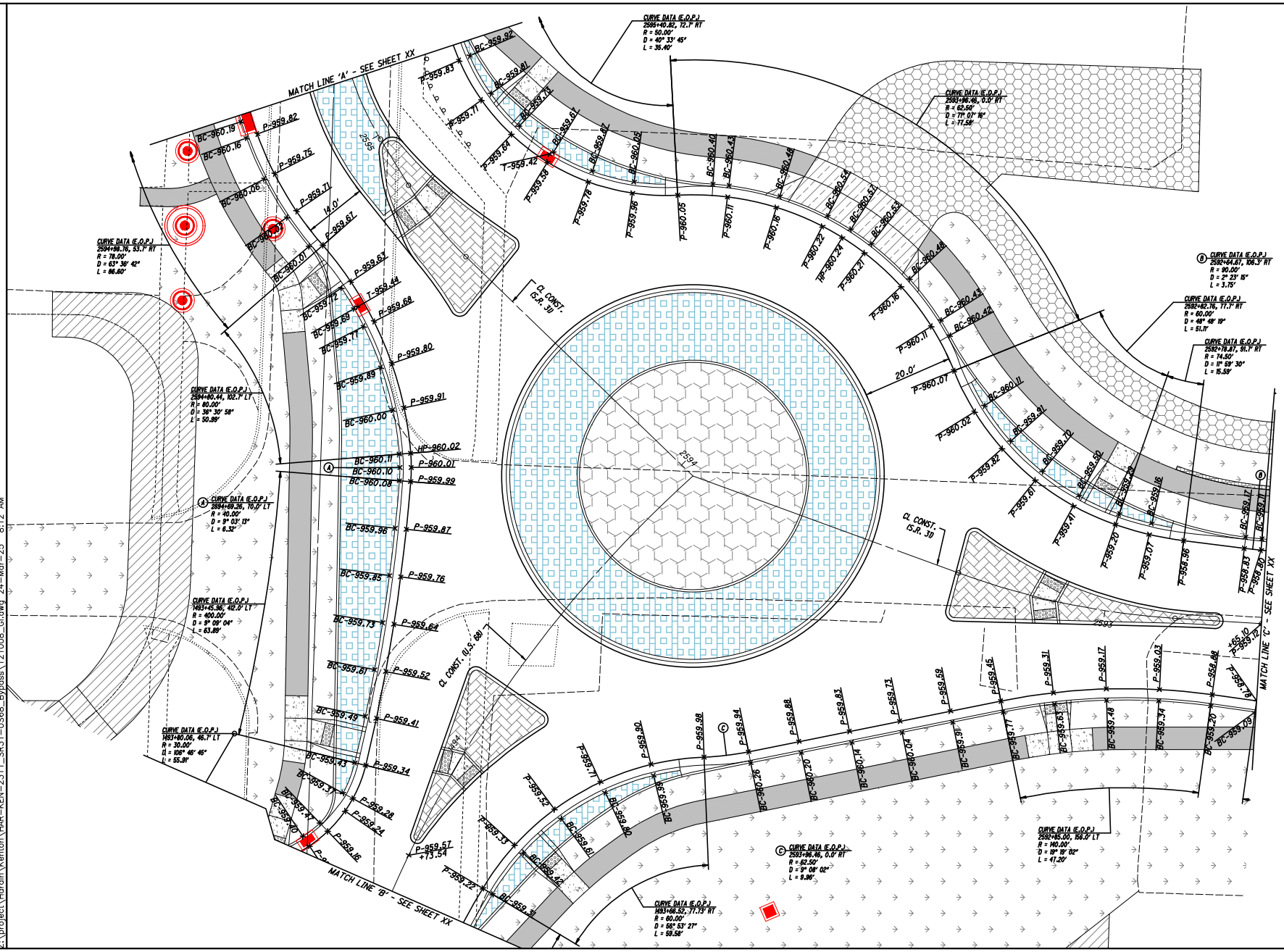
DESIGN AGENCY
CHOICE ONE ENGINEERING

DESIGNER	DMS
REVIEWER	AJH 3-2025
PROJECT ID	121008
SHEET	P.62
TOTAL	93



HAR-US68/SR31-ROUNDABOUT

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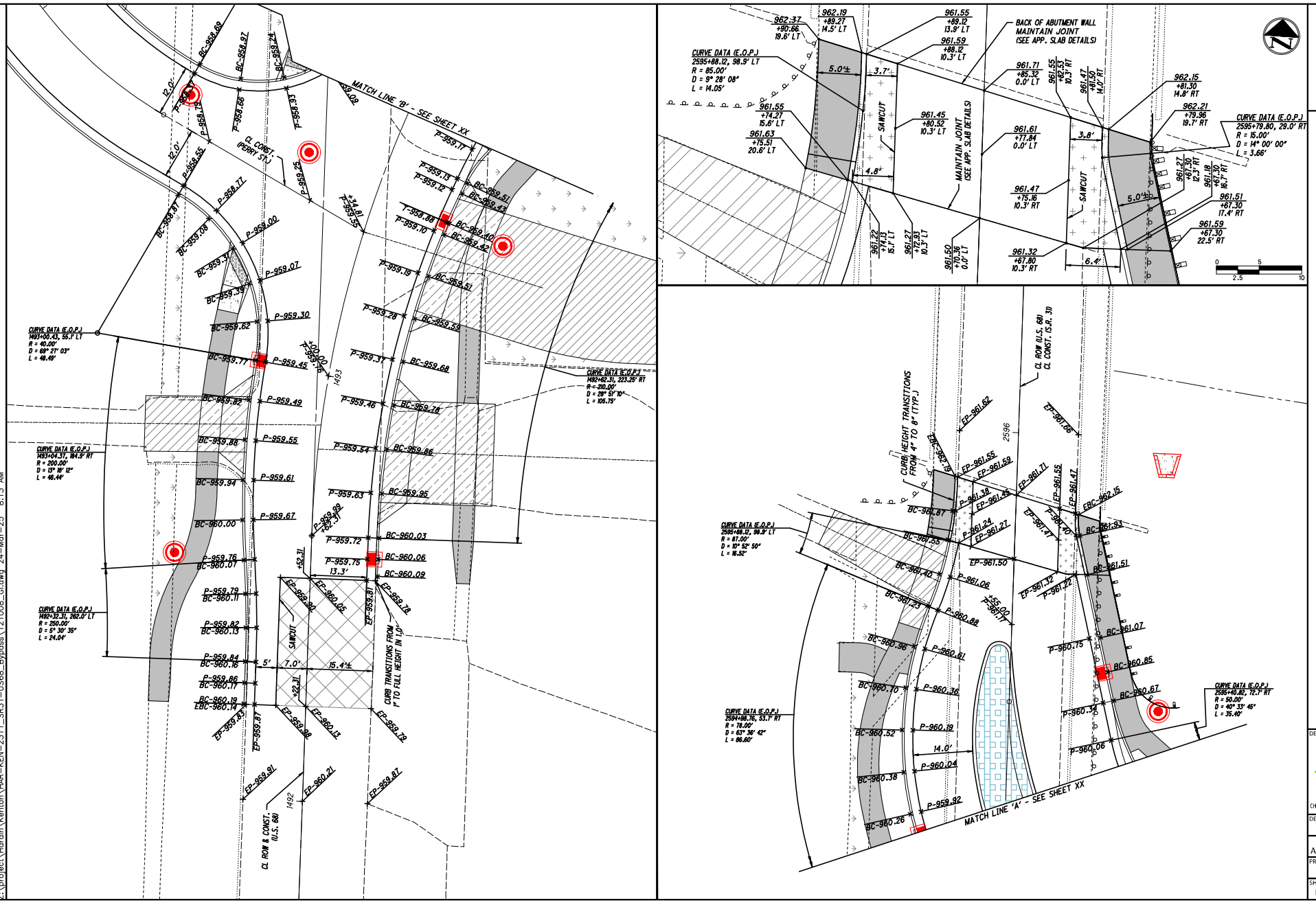
HORIZONTAL SCALE IN FEET
0 5 10 20

INTERSECTION DETAILS

DESIGN AGENCY
CHOICE ONE ENGINEERING

DESIGNER	DMS
REVIEWER	AJH 3-2025
PROJECT ID	121008
SHEET	P.63
TOTAL	93



HAR-US68/SR31-ROUNDABOUT

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INTERSECTION DETAILS

DESIGN AGENCY
CHOICE ONE ENGINEERING

DESIGNER	DMS
REVIEWER	AJH 3-2025
PROJECT ID	121008
SHEET	P.64
TOTAL	93

HAR-US68/SR31-ROUNDABOUT

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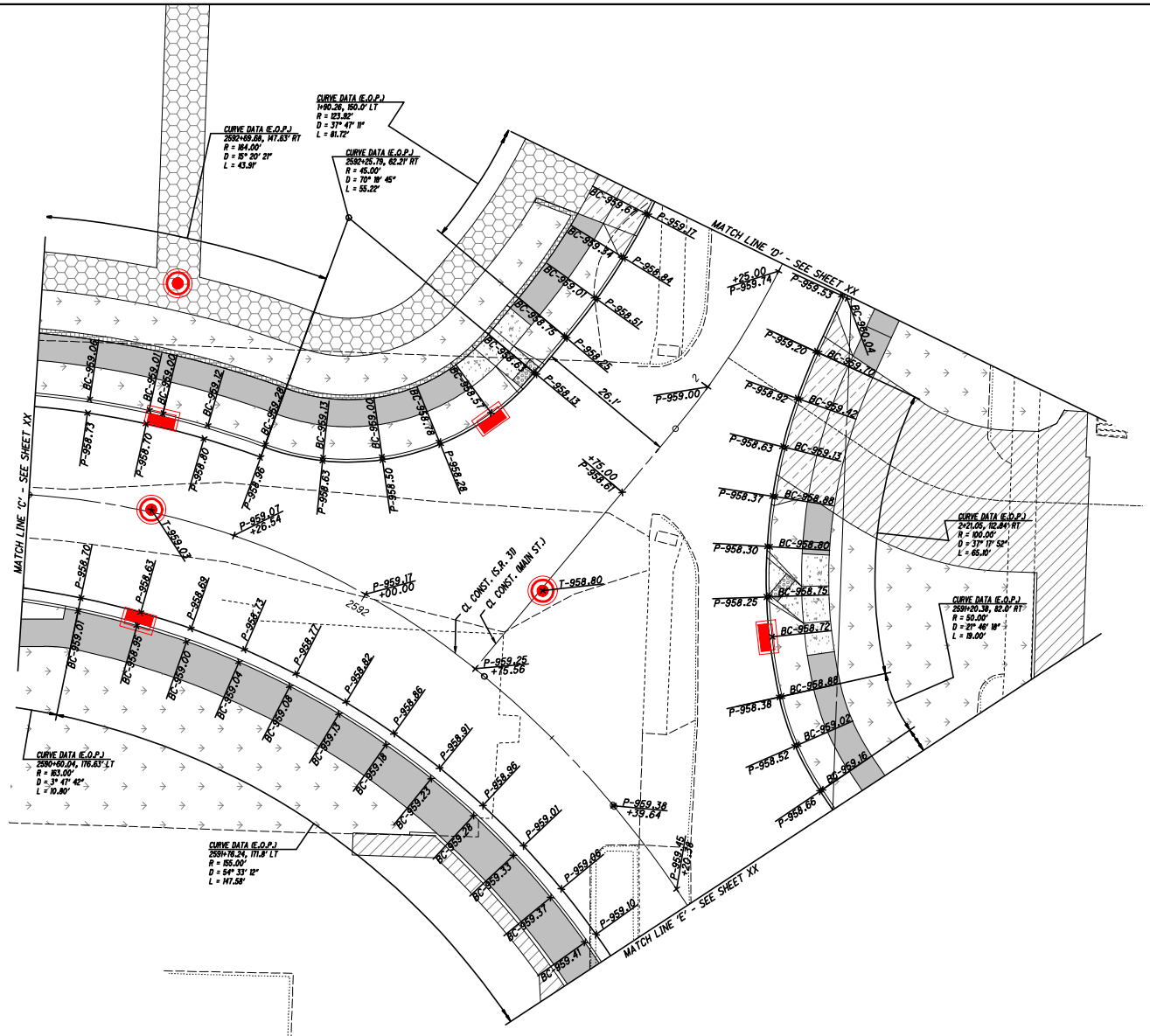
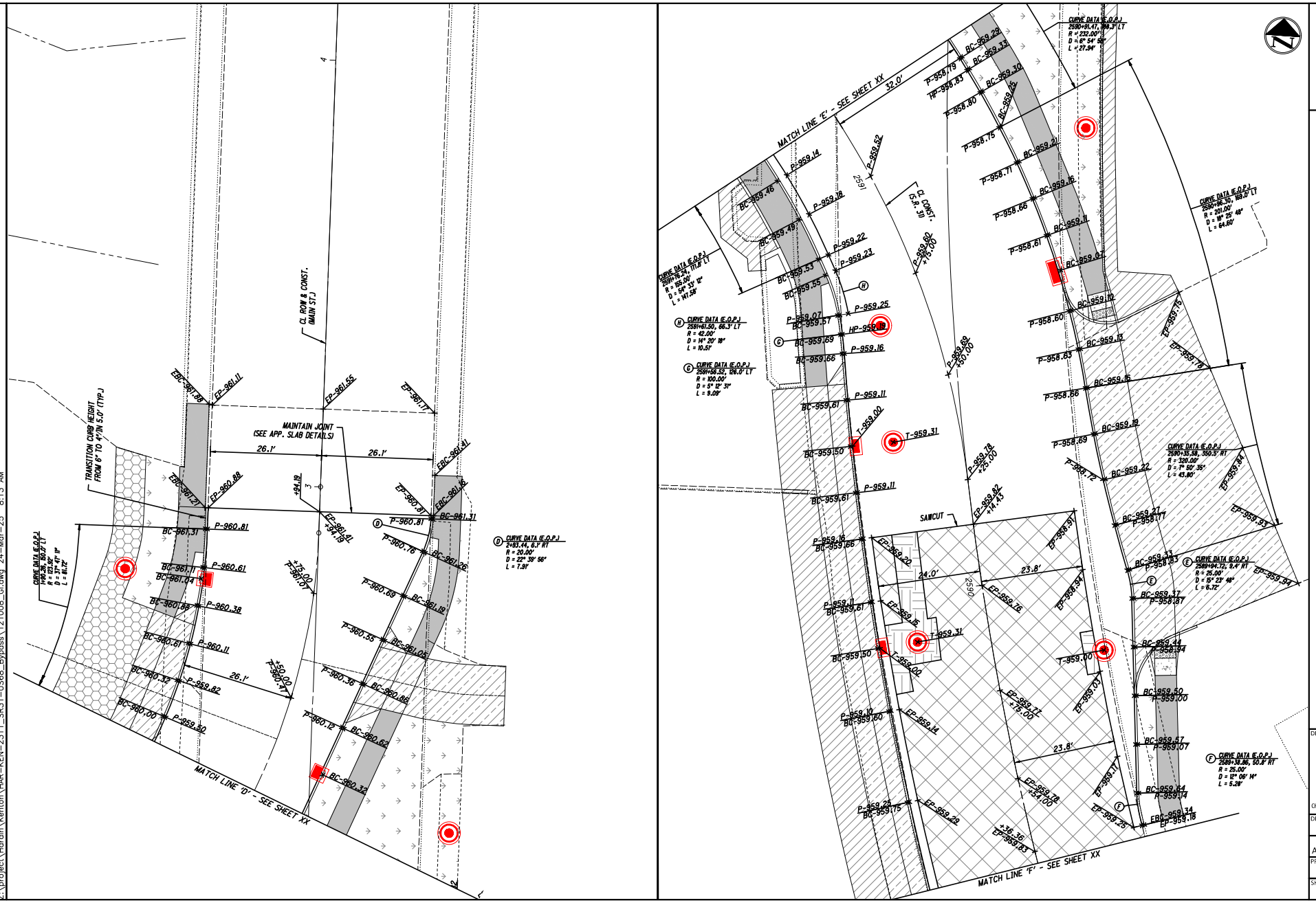


INTERSECTION DETAILS

HORIZONTAL SCALE IN FEET
0 5 10 20

DESIGN AGENCY
CHOICE ONE ENGINEERING

DESIGNER	DMS
REVIEWER	AJH 3-2025
PROJECT ID	121008
SHEET	P.65
TOTAL	93


HAR-US68/SR31-ROUNDABOUT
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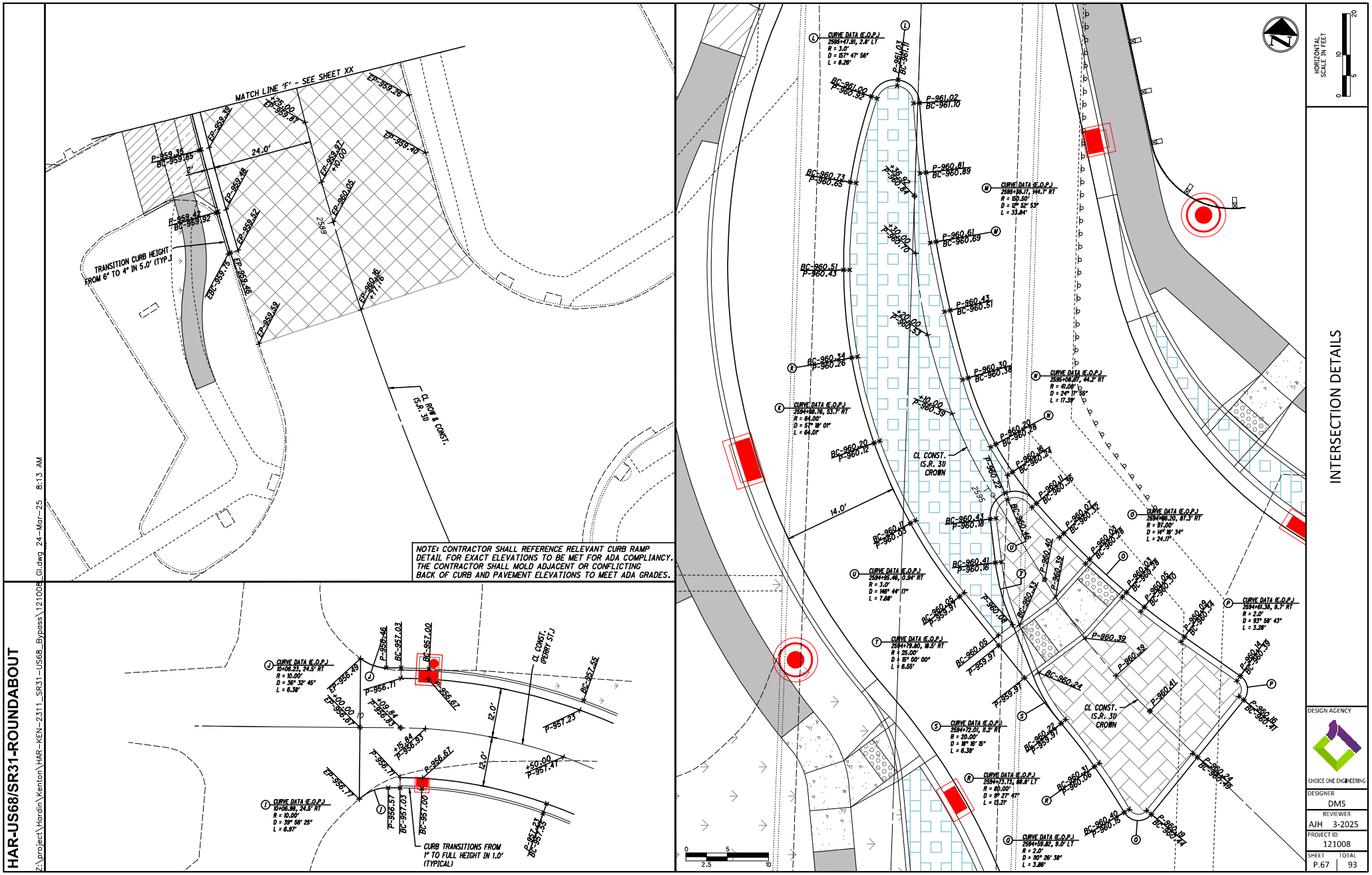
MATCH LINE 'D' - SEE SHEET XX
MATCH LINE 'E' - SEE SHEET XX
MATCH LINE 'F' - SEE SHEET XX
CL ROW & CONST. (MAIN ST.)
CL CONST. (S.R. 31)
MAINTAIN JOINT (SEE APP. SLAB DETAILS)
TRANSITION CURB HEIGHT FROM 6" TO 4"IN 5.0' (TYP.)
SAWCUT
HORIZONTAL SCALE IN FEET
INTERSECTION DETAILS
DESIGN AGENCY
CHOICE ONE ENGINEERING
DESIGNER DMS
REVIEWER AJH 3-2025
PROJECT ID 121008
SHEET P.66 TOTAL 93


HAR-US68/SR31-ROUNDABOUT
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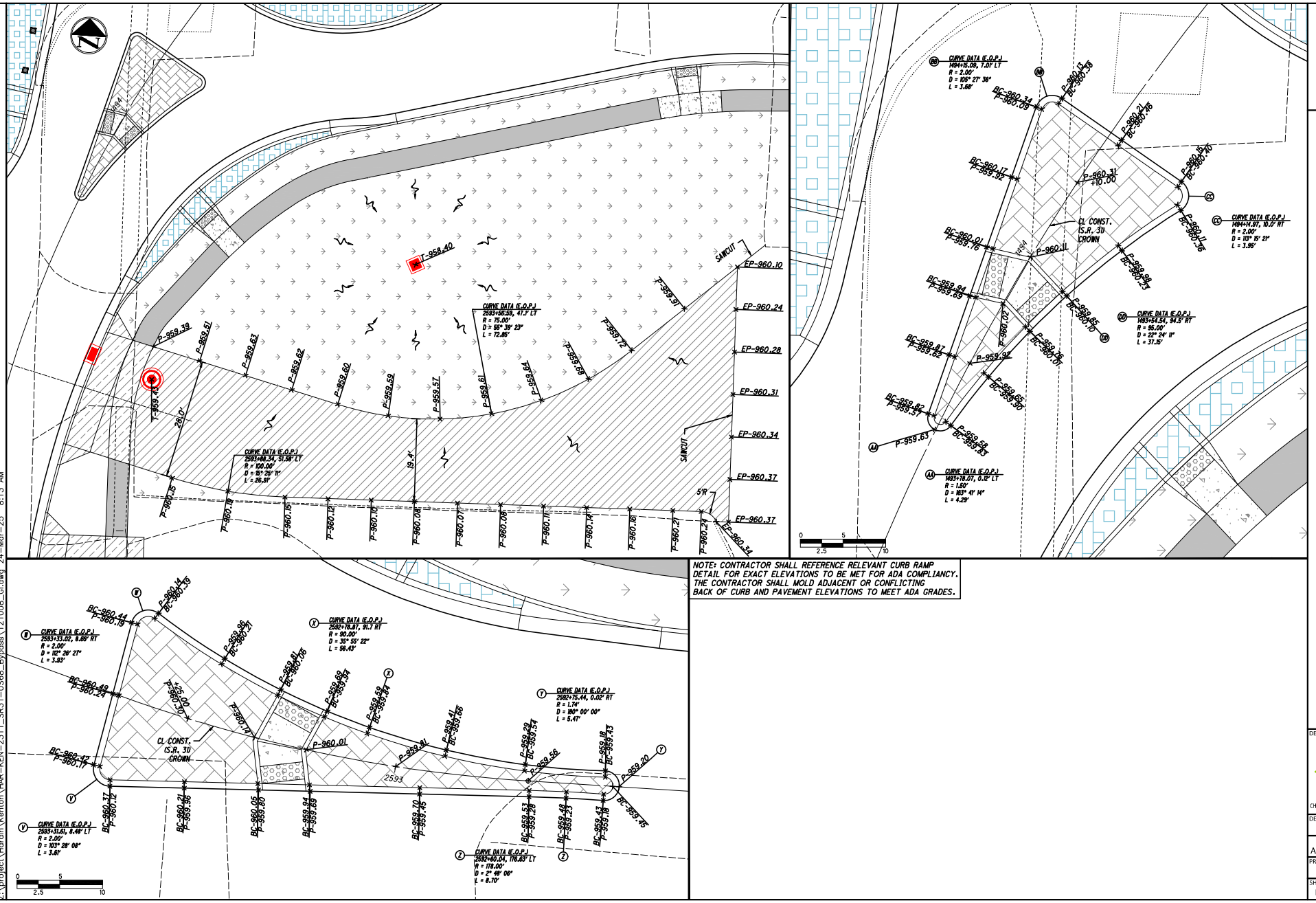
MATCH LINE "F" - SEE SHEET XX
TRANSITION CURB HEIGHT FROM 6" TO 4" IN 5.0' (TYP.)
CL ROW & CONST. (S.R. 31)
NOTE: CONTRACTOR SHALL REFERENCE RELEVANT CURB RAMP DETAIL FOR EXACT ELEVATIONS TO BE MET FOR ADA COMPLIANCY. THE CONTRACTOR SHALL MOLD ADJACENT OR CONFLICTING BACK OF CURB AND PAVEMENT ELEVATIONS TO MEET ADA GRADES.
CL CONST. (PERRY ST.)
CURB TRANSITIONS FROM 1" TO FULL HEIGHT IN 1.0' (TYPICAL)
CL CONST. (S.R. 31) CROWN
HORIZONTAL SCALE IN FEET
INTERSECTION DETAILS
CHOICE ONE ENGINEERING
DESIGNER DMS
REVIEWER AJH 3-2025
PROJECT ID 121008
SHEET P.67 TOTAL 93


HAR-US68/SR31-ROUNDABOUT
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INTERSECTION DETAILS
HORIZONTAL SCALE IN FEET
NOTE: CONTRACTOR SHALL REFERENCE RELEVANT CURB RAMP DETAIL FOR EXACT ELEVATIONS TO BE MET FOR ADA COMPLIANCY. THE CONTRACTOR SHALL MOLD ADJACENT OR CONFLICTING BACK OF CURB AND PAVEMENT ELEVATIONS TO MEET ADA GRADES.
CL CONST. (S.R. 31) CROWN
SAWCUT
DESIGN AGENCY
CHOICE ONE ENGINEERING
DESIGNER DMS
REVIEWER AJH 3-2025
PROJECT ID 121008
SHEET P.68
TOTAL 93

HAR-US68/SR31-ROUNDABOUT

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INTERSECTION DETAILS

HORIZONTAL SCALE IN FEET
0 5
2.5 10

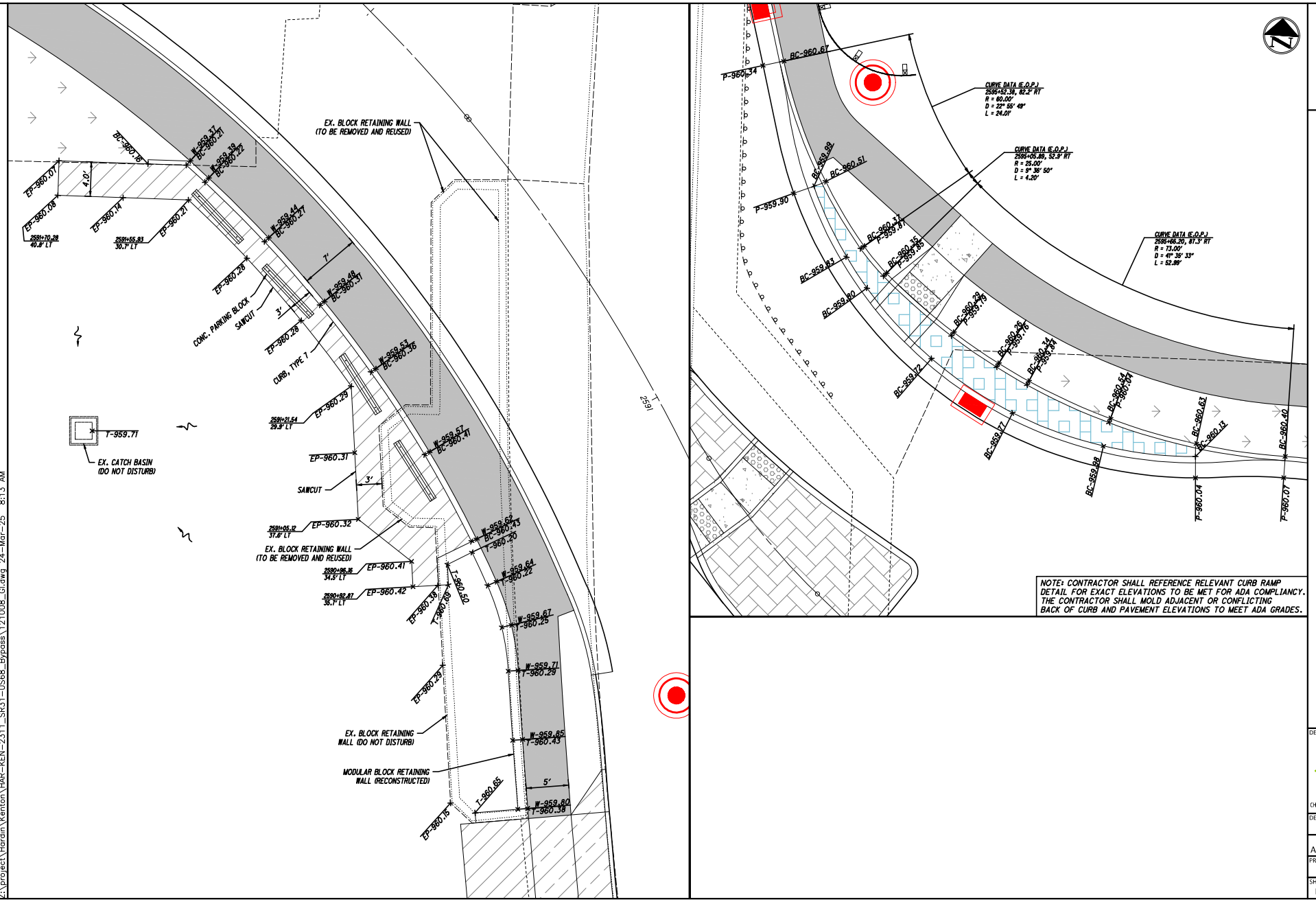
SHEET	TOTAL
P 69	93

PROJECT ID 121008

AJH 3-2025 REVIEWER

DMS DESIGNER

CHOICE ONE ENGINEERING DESIGN AGENCY



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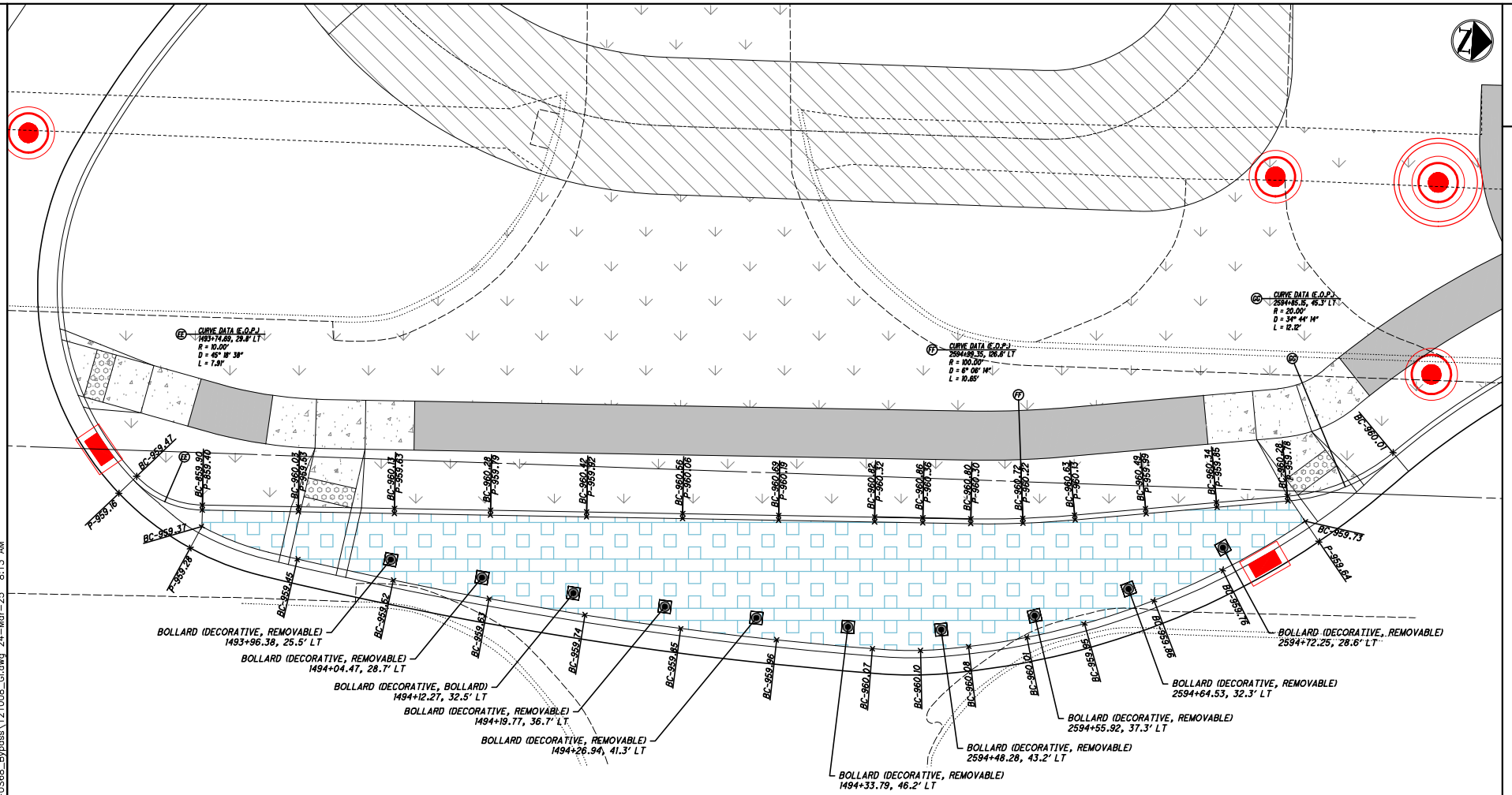
INTERSECTION DETAILS

DESIGN AGENCY
CHOICE ONE ENGINEERING

DESIGNER	DMS
REVIEWER	AJH 3-2025
PROJECT ID	121008
SHEET	P.70
TOTAL	93



NOTE: CONTRACTOR SHALL REFERENCE RELEVANT CURB RAMP DETAIL FOR EXACT ELEVATIONS TO BE MET FOR ADA COMPLIANCY. THE CONTRACTOR SHALL MOLD ADJACENT OR CONFLICTING BACK OF CURB AND PAVEMENT ELEVATIONS TO MEET ADA GRADES.

INTERSECTION DETAILS

HAR-US68/SR31-ROUNDABOUT

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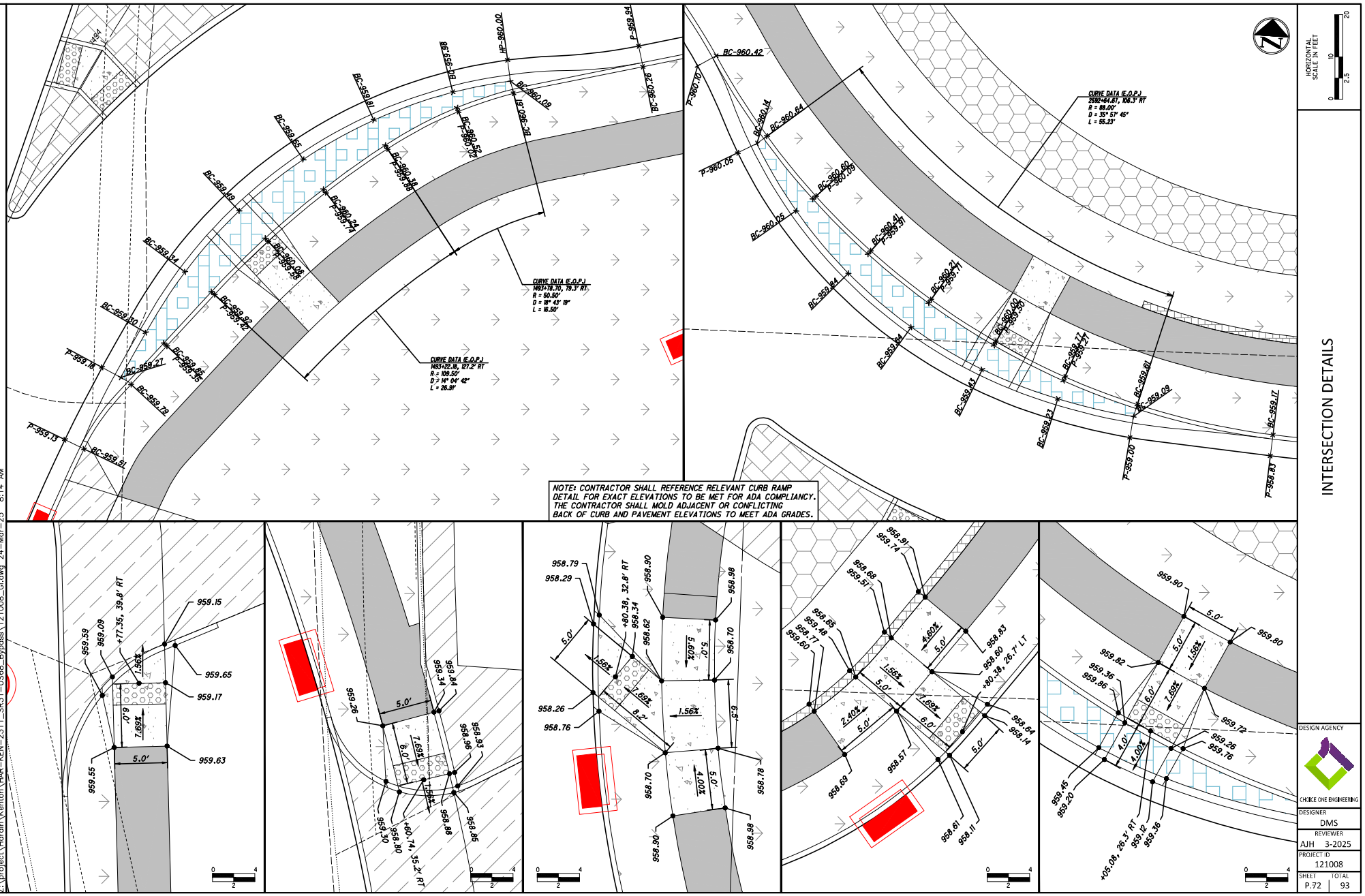
DESIGN AGENCY
CHOICE ONE ENGINEERING

DESIGNER	DMS
REVIEWER	AJH 3-2025
PROJECT ID	121008
SHEET	P.71
TOTAL	93


HAR-US68/SR31-ROUNDABOUT
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INTERSECTION DETAILS
HORIZONTAL SCALE IN FEET
0 2.5 10 20
NOTE: CONTRACTOR SHALL REFERENCE RELEVANT CURB RAMP DETAIL FOR EXACT ELEVATIONS TO BE MET FOR ADA COMPLIANCY. THE CONTRACTOR SHALL MOLD ADJACENT OR CONFLICTING BACK OF CURB AND PAVEMENT ELEVATIONS TO MEET ADA GRADES.
CURVE DATA (E.O.P.)
R = 50.50'
D = 18° 43' 19"
L = 16.50'
CURVE DATA (E.O.P.)
R = 109.50'
D = 14° 04' 42"
L = 26.91'
CURVE DATA (E.O.P.)
R = 88.00'
D = 35° 57' 45"
L = 55.23'
DESIGN AGENCY
CHOICE ONE ENGINEERING
DESIGNER
DMS
REVIEWER
AJH 3-2025
PROJECT ID
121008
SHEET P.72
TOTAL 93

HAR-US68/SR31-ROUNDABOUT

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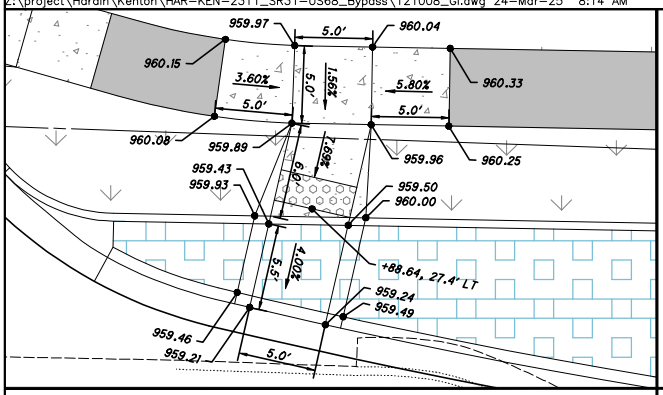

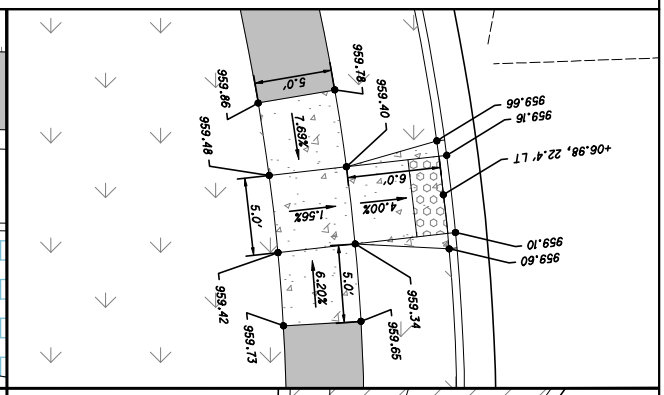

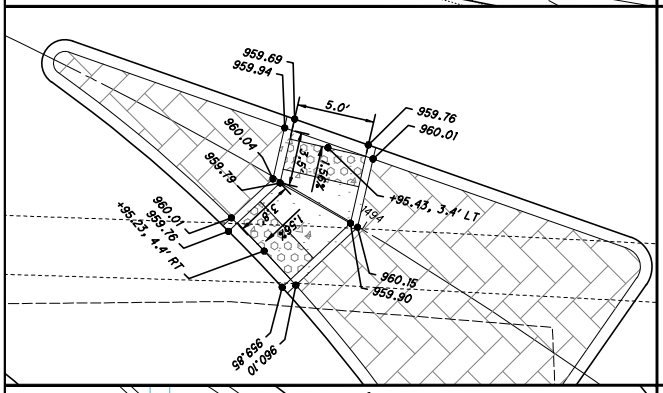

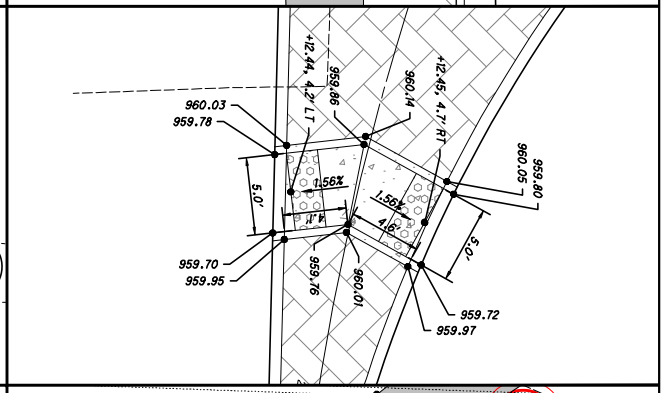

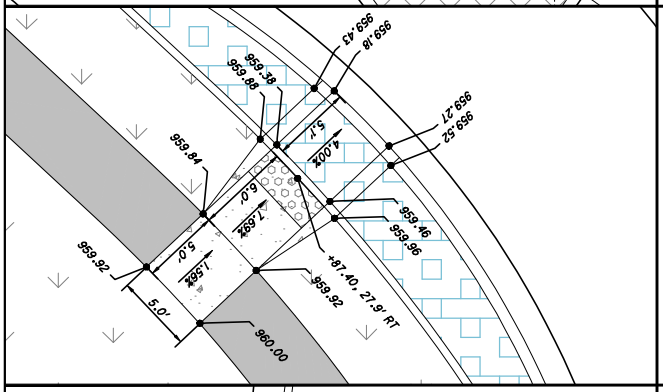

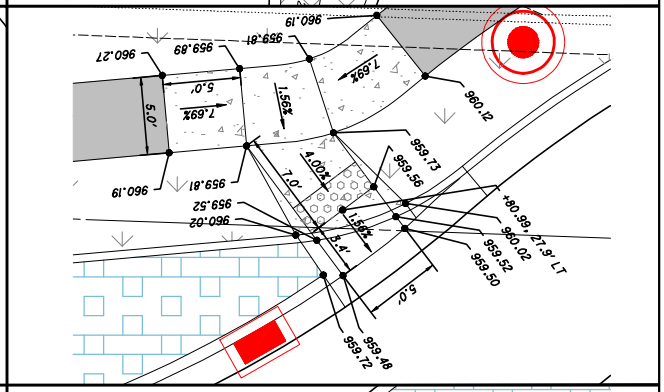

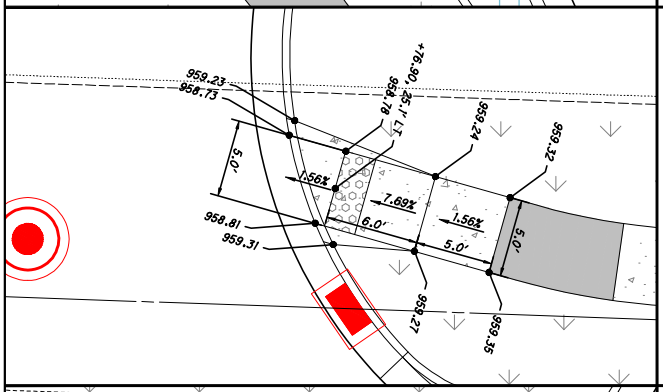

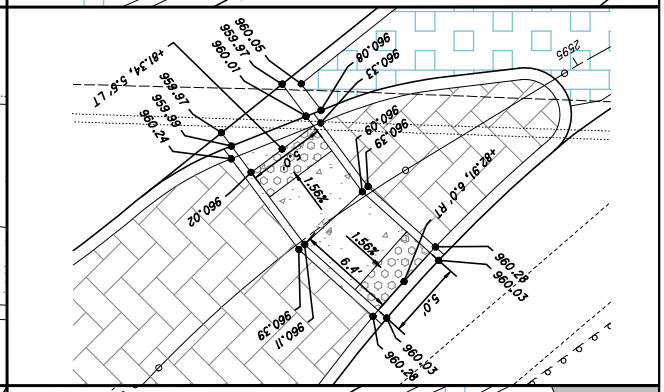

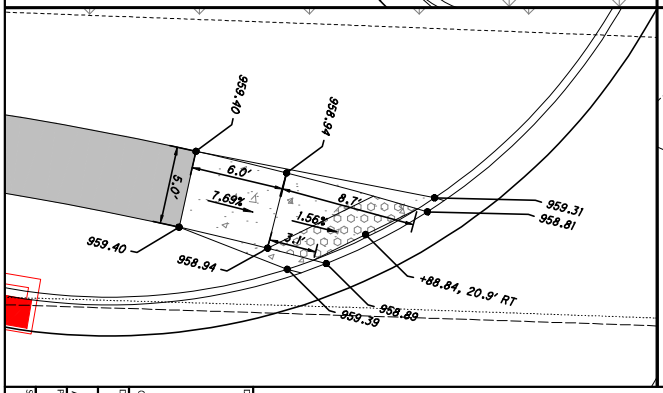

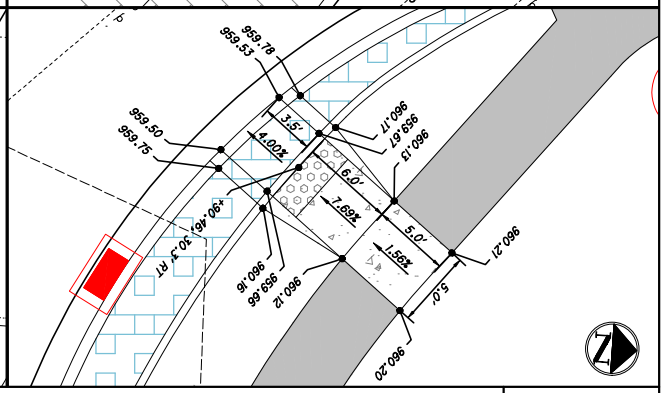

INTERSECTION DETAILS

HORIZONTAL SCALE IN FEET
0 4
2 8

SHEET	TOTAL
P 73	93

PROJECT ID 121008

AJH 3-2025 REVIEWER

DMS DESIGNER

CHOOSE ONE ENGINEERING

DESIGN AGENCY

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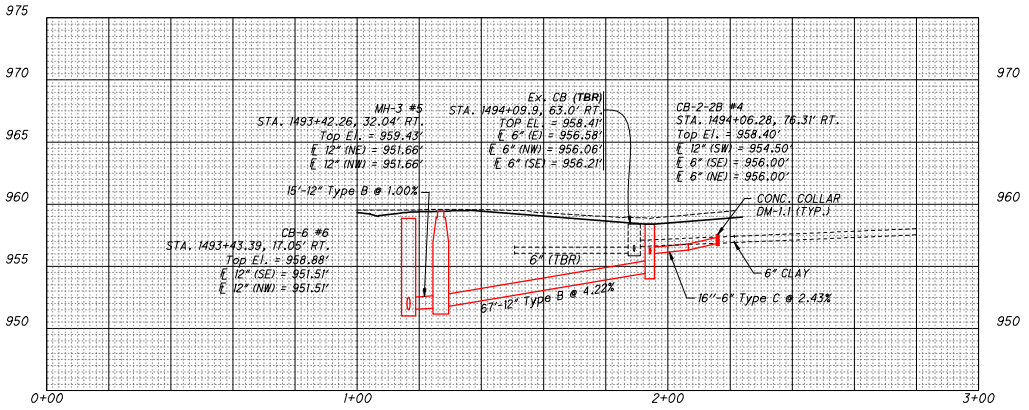

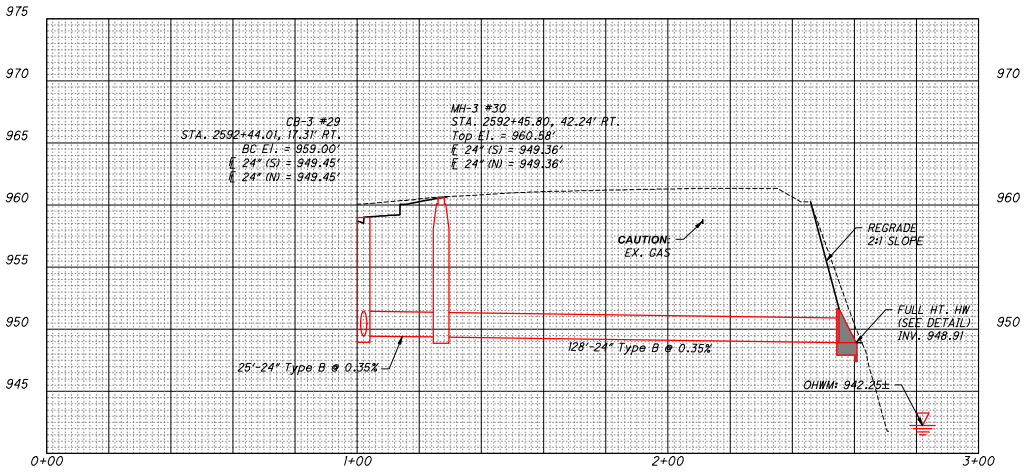

STORM STRUCTURE STATIONING AND OFFSETS BASED ON THE NEAREST MAINLINE ROAD CENTERLINE OF CONSTRUCTION

HORIZONTAL SCALE IN FEET
0 10 20 40

STORM SEWER PROFILES

DESIGN AGENCY
CHOICE ONE ENGINEERING

DESIGNER
DMS

REVIEWER
AJH 3-2025

PROJECT ID
121008

SHEET P.74 | TOTAL 93

Appendix E

Other Information

The Geophysical Survey Report and RMR Assessment are available in the EnviroNet Project File.