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TRANSMITTED VIA EMAIL

December 9, 2021

Craig Haden
GeoEnvironmental Project Engineer
Geotechnical Engineering Unit
North Carolina Department of Transportation
1020 Birch Ridge Drive
Raleigh, NC 27610

RE: UST Closure Report

Former Jeffrey Teague Property – Parcel # 008 PSH 4

222 Gumtree Road, Winston Salem (Midway), Davidson County, NC

NCDOT TIP Number: B-5765 NCDOT WBS Number: 45721.1.1 CES Project Number: 7798.1121ED

Dear Mr. Haden:

Please find attached an electronic copy of the UST Closure Report for the Former Jeffrey Teague Property, identified as Parcel # 008 PSH 4, located at 222 Gumtree Road, Winston Salem (Midway), in Davidson County, North Carolina. This UST Closure Report was performed in accordance with our Technical and Cost Proposal, dated November 12, 2021, and was initiated by a Notice to Proceed (NTP), issued by NCDOT on November 15, 2021, under our GeoEnvironmental Contract, No.: 7000020453, dated April 20, 2020.

Upon your review, please return via DocuSign for final signatures.

Should you have any questions in regards to this UST Closure Report, please do not hesitate to contact me at (704) 325-5408.

Regards,

CES Group Engineers, LLP.

Greg Hans, PMP

Environmental Scientist/ Environmental

Division Manager

Enclosures: UST Closure Report

Charles Heleine, PE, REPA Senior Environmental Engineer

Chiles A H.L.



UST CLOSURE REPORT

NCDOT TIP Number: B-5765 NCDOT WBS Number: 45721.1.1 Former Jeffrey Teague Property – Parcel # 008 PSH 4 222 Gumtree Road, Winston Salem (Midway), Davidson County, NC



Prepared for:

North Carolina Department of Transportation Geotechnical Engineering Unit 1020 Birch Ridge Drive Raleigh, NC 27610

Prepared by:

CES Group Engineers, LLP 274 North Highway 16 Business, Suite 300 Denver, NC 28037

CES Project No.: 7798.1121ED

December 9, 2021

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A. SITE INFORMATION

A.1 Site Identification

Date of Report: December 9, 2021
Facility ID: Not Applicable

UST Incident Number: Not Applicable / Not Assigned Site Risk: Not Applicable / Not Assigned

Site Name: NCDOT Parcel # 008 PSH 4 (Former Jeffrey Teague Property)

Street Address: 222 Gumtree Road

City/Town: Winston Salem (Midway), North Carolina

Zip Code: 27107 County: Davidson

Geographical Data Point: Heating Oil UST Fill Port

Location Method: GPS (via iPhone mapping application)

Latitude/Longitude: 35.974515/-80.222978

A.2 Contact Information

UST Owner: Jeffrey Teague

222 Gumtree Road

Winston Salem (Midway), North Carolina 27107

UST Operator: Former Jeffrey Teague Property (inactive at time of closure)

Property Owner: North Carolina Department of Transportation (acquired

property in September 2021 from Jeffrey Teague)

Property Occupant: Former Jeffery Teague Property (unoccupied at time of

closure)

Consultant: CES Group Engineers, LLP

274 N NC Highway 16 Business, Suite 300

Denver, North Carolina 28037

(704) 489-1500

ghans@ces-group.net

Closure Contractor: Carolina Environmental Response Team

5648 Daphne Drive

Charlotte, North Carolina 28269

(877) 505-6799 slucas@cert-usa.com

Analytical Laboratory: Not Applicable (no samples collected for laboratory analysis)



A.3 Release Information

Date Discovered: Not Applicable (no release discovered)

Estimated Quantity of Release:
Cause of Release:
Source of Release:
UST System Contamination:
Not Applicable
Not Applicable
Not Applicable

A.4 Certification

I, <u>Charles D. Heleine</u>, a North Carolina Licensed Professional Engineer employed by CES, do certify that the information contained in this report is accurate, to the best of my knowledge.



E-Signature 12/9/2021

Charles D. Heleine, NC PE No. 027196

CES Group Engineers, LLP (CES) is licensed to practice engineering in North Carolina. The firm license number is $\underline{\text{F-}1240}$.



B. EXECUTIVE SUMMARY

This Underground Storage Tank (UST) Closure Report summarizes the removal of one (1) 550-gallon heating oil UST from North Carolina Department of Transportation (NCDOT) Parcel # 008 – PSH 4, identified as the Former Jeffrey Teague Property, located at 222 Gumtree Road, Winston Salem (Midway), in Davidson County, North Carolina (the subject site). This UST Closure was performed in accordance with our Technical and Cost Proposal, dated November 12, 2021, and was initiated by a Notice to Proceed (NTP), issued by NCDOT on November 15, 2021, under our GeoEnvironmental Contract, No. 7000020453, dated April 20, 2020.

The scope of work performed by CES for this UST Closure included the extraction of an estimated two hundred fifty (250) gallons of residual heating oil from the UST, the removal of the 550-gallon heating oil UST from the subsurface, offsite transportation and disposal/recycling of the steel 550-gallon heating oil UST and its residual contents, and backfilling the subsurface void with native soils to approximate grade level.

During the excavation and removal of the 550-gallon UST on December 1, 2021, no visual or olfactory evidence of petroleum hydrocarbon contamination was observed, and therefore, no soil samples were screened in the field, nor were any soil samples collected and submitted for laboratory analysis. Similarly, because no groundwater or surface water was encountered during excavation activities, no groundwater or surface water samples were collected.

Information relative to the removed UST is provided below:

UST ID	PRODUCT STORED	CAPACITY (gals.)	CONSTRUCTED MATERIALS	INSTALLATION DATE	REMOVAL DATE	RELEASE (Yes or No)
Tank 1	Heating Oil	550	Steel	Unknown	December 1, 2021	No

An Area Site Map and Approximate Parcel 8 Boundaries, depicting the general location of the subject site, is included as Figure 1. A NCDOT plan sheet depicting Parcel # 008 – PSH 4, and the design elements for the planned replacement of Bridge 115 on SR 1711 over Winston-Salem Southbound (WSSB) Railway under NCDOT Project Number B-5765, is included in Appendix A.



C. TABLES OF CONTENTS

A table of contents has been included on page i.



D. SITE HISTORY AND CHARACTERIZATION

D.1 Site History and Description

The subject site, NCDOT Parcel # 008 – PSH 4, has been identified as the Former Jeffrey Teague Property, and is located at 222 Gumtree Road, Winston Salem (Midway), in Davidson County, North Carolina. According to a review of Davidson County GIS Real Estate Maps, NCDOT acquired the property from Jeffrey Teague in September 2021.

The subject site is bordered on the north by Gumtree Road, on the east and south by a railroad right-of-way (WSSB Railway), on the west by a single-family residence, and is generally located in an area of residential, commercial and institutional uses. The subject property previously contained a single-family residential structure with basement, an attached carport, a concrete driveway, and landscaped areas. The subject UST was observed to be installed on a downward slope, located adjacent to the west facing exterior wall of the carport and basement, was orientated in a north-south direction, was reported to be approximately 550-gallons in size, and was reportedly utilized as a heating oil storage vessel for the onsite residential structure. The gradient of the subject site and surrounding area generally slopes to the south-southeast, towards the WSSB Railway, which traverses along the subject property's eastern and southern property boundaries. NCDOT Bridge 115 is located approximately fifty (50) to seventy-five (75) feet to the east of the subject site's residential structure, along Gumtree Road.

At the time of the UST Closure on December 1, 2021, a general contractor was in the process of demolishing the onsite residential structure, and continued with their planned demolition activities while the heating oil UST was being removed from the subsurface.

D.2 Site Geology and Hydrogeology

The subject site is located in the Charlotte Belt of the Piedmont Physiographic Province. During UST closure activities, subsurface soils generally consisted of a light brown/reddish sandy loam. Groundwater was not encountered at the maximum depth of excavation, approximately six (6) feet below grade. It has been determined that natural surface drainage at the subject property generally flows in a south-southeasterly direction. While not always the case, groundwater flow direction typically follows the direction of surface water flow, and is, therefore, anticipated to flow south-southeasterly. Man-made improvements, including cut and fill operations, may alter natural local drainage patterns to some degree.



E. CLOSURE PROCEDURE

E.1 Closure Preparation

Prior to the removal of the heating oil UST on December 1, 2021, underground utilities were cleared through the North Carolina 811 public locating service, and a site-specific Emergency Management and Health and Safety Plan (EMP-HASP) with Job Hazardous Analysis (JHA) form was generated to address safety related concerns associated with the scope of work to be performed at the subject site. Additionally, Christopher Shonk — Assistant Fire Marshal for the Davidson County Fire Marshal's Office and Johnathan Goode — Part Time Fire Fighter for the Gumtree Fire & Rescue Department were contacted by CES, and both Mr. Shonk and Mr. Goode reported that their respective offices did not require any formal notifications or permits to remove a residential heating oil UST.

E.2 Closure Procedures

On December 1, 2021, Carolina Environmental Response Team (CERT) of Charlotte, North Carolina, under the direction of a CES environmental scientist, performed the UST closure activities. After exposing the top of the UST, and prior to the excavation and removal of the UST from the subsurface, the contents of the UST were extracted utilizing a trailer mounted vacuum extractor unit (Vermeer – VX50-500). An estimated two hundred fifty (250) gallons of residual heating oil was extracted and transported by CERT for disposal/recycling at their facility in Charlotte, NC, under a Non-Hazardous Waste Manifest.

After extracting the residual heating oil from the UST, a mini-excavator continued to expose the sides of the UST, until the UST could be safely hoisted from the tank grave. Upon removal from the subsurface, the UST remained intact and was subsequently placed on ground surface for a visual inspection. The visual inspection reported the tank was constructed of steel, measured seventy-two (72)-inches in length with a forty-eight (48)-inch diameter, and was observed to be in good condition, with minor corrosion and no signs of pitting, holes or breaches. After the visual inspection was completed, the UST was loaded onto a CERT trailer and delivered to Auto Pasts U Pull & Scrap Metal of Charlotte, NC.

During the UST removal process, soils encountered from the top, sidewalls and from immediately below the UST did not exhibit signs of contamination through visual and olfactory observations. Since no soil staining, petroleum odors or petroleum-saturated soils were encountered in the field, it was determined that no field screening or soil sampling for laboratory analysis of subsurface soils would be required.

A Site Map and Location of Removed Underground Storage Tank is included in Figure 2. A photographic log, depicting UST closure activities on December 1, 2021, is included as Appendix B. Waste manifests, covering both the extracted heating oil and disposal/recycling of the UST, are included in Appendix C.

E.3 Soil Excavation Activities

During the UST closure on December 1, 2021, over-excavation of contaminated soils did not occur, as no evidence of contamination was observed. Excavated soils were returned to the tank grave and utilized as backfill. The dimensions of the excavated area to remove the UST in a safe manner measured ten (10) feet in length, by seven (7) feet in width, to a maximum depth of six (6) feet



below grade. Groundwater was not observed entering the open excavated area.



F. SITE INVESTIGATION

F.1 Field Screening

Field screening of soils utilizing a photoionization detector (PID) meter did not occur during UST closure activities, as no visual or olfactory evidence of petroleum hydrocarbon contamination was observed.

F.2 Soil Sampling

Soil samples were not collected during UST closure activities, as no visual or olfactory evidence of petroleum hydrocarbon contamination was observed.

F.3 Groundwater and Surface Water Sampling

Groundwater and/or surface water samples were not collected during UST closure activities, as groundwater and/or surface water was not encountered.

F.4 Quality Control Measures

Quality control measures were not implemented, as soil, groundwater and/or surface water samples were not collected during the UST closure activities.

F.5 Laboratory Analytical Results

Not Applicable.



G. CONCLUSIONS AND RECOMMENDATIONS

G.1 Conclusions

On December 1, 2021, CES supervised the the removal of one (1) 550-gallon heating oil UST from the Former Jeffrey Teague Property, located at 222 Gumtree Road, Winston Salem (Midway), North Carolina.

During the excavation and removal of the 550-gallon UST on December 1, 2021, no visual or olfactory evidence of contamination was observed, and therefore, no soil samples were screened in the field, nor were any soil samples collected and submitted for laboratory analysis.

G.2 Recommendations

Based upon the absence of contamination observed during the heating oil UST removal on December 1, 2021, no further response actions are recommended at this time.



H. SIGNATURE PAGE

This UST Closure Report was prepared by:



Dec 14, 2021

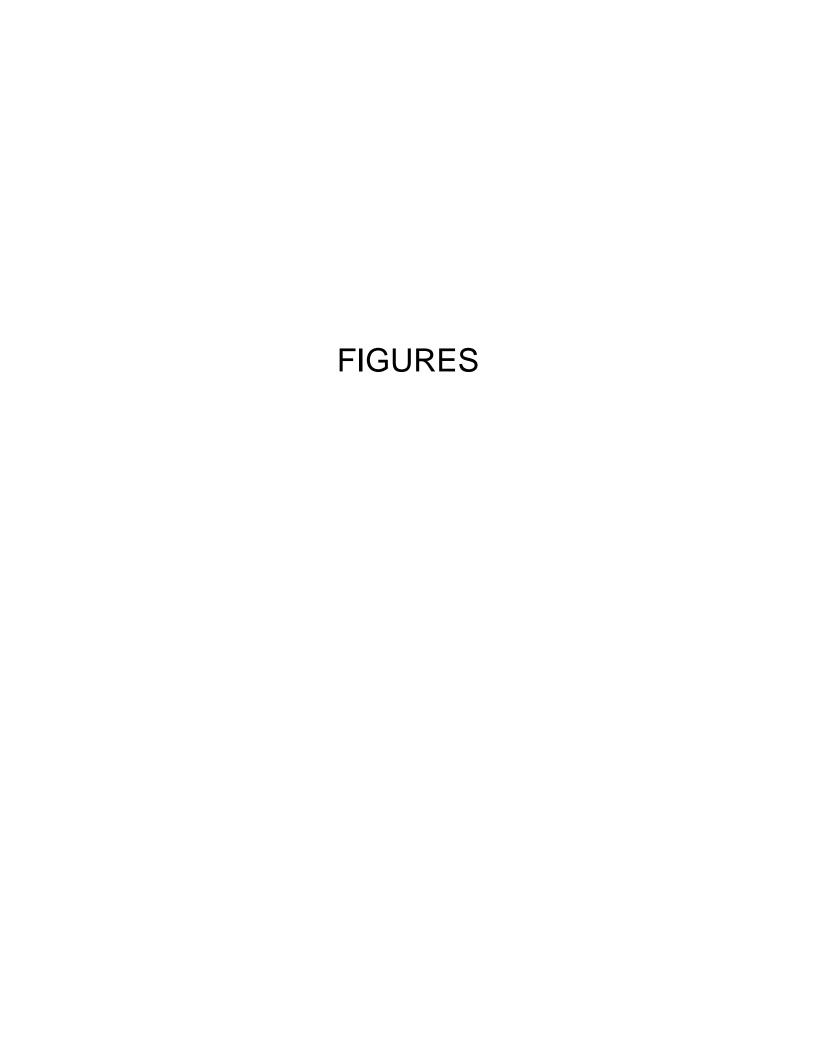
Greg Hans, PMP Environmental Scientist/Environmental Division Manager CES Group Engineers, LLP

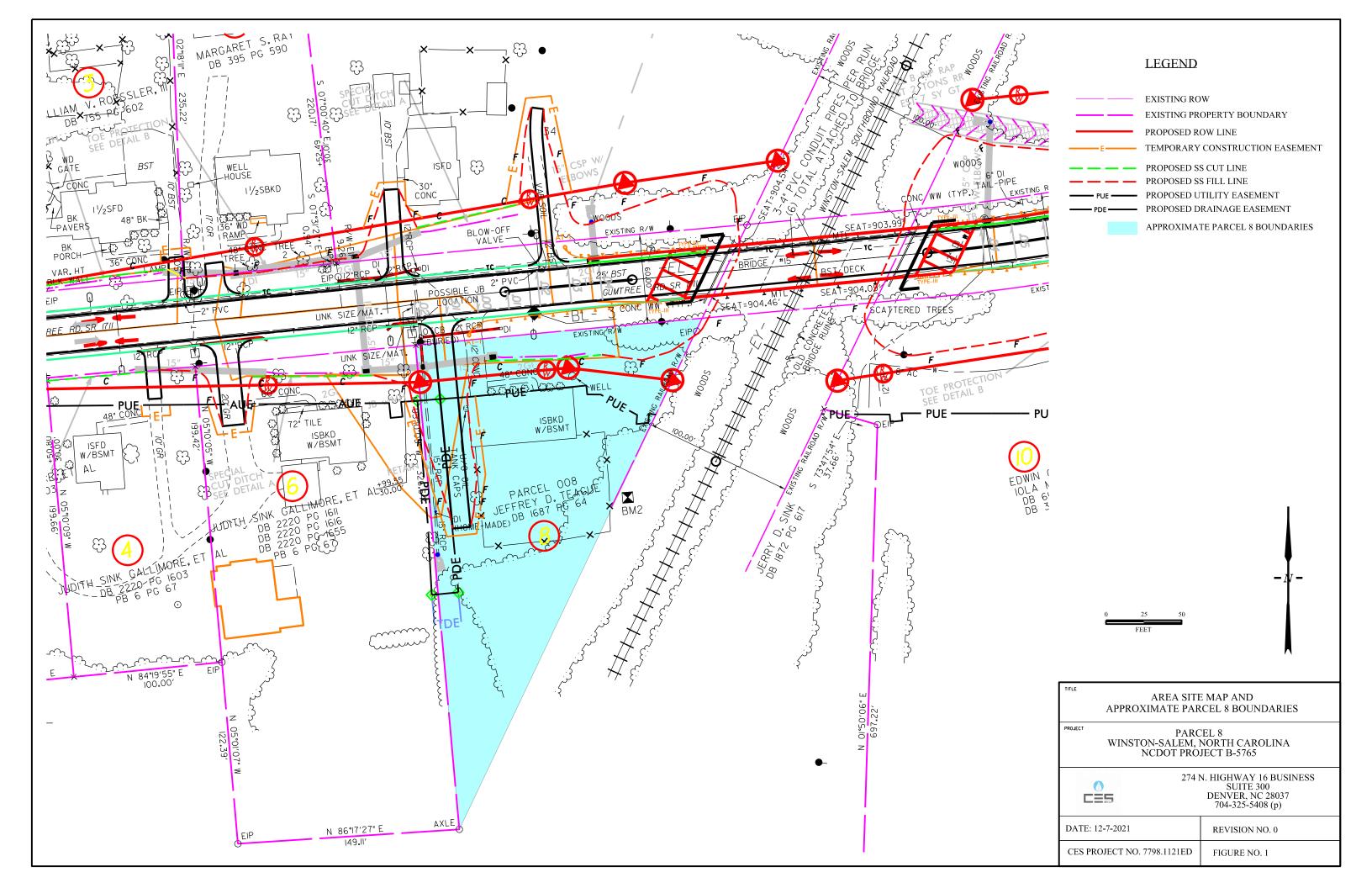
This UST Closure Report was reviewed by:

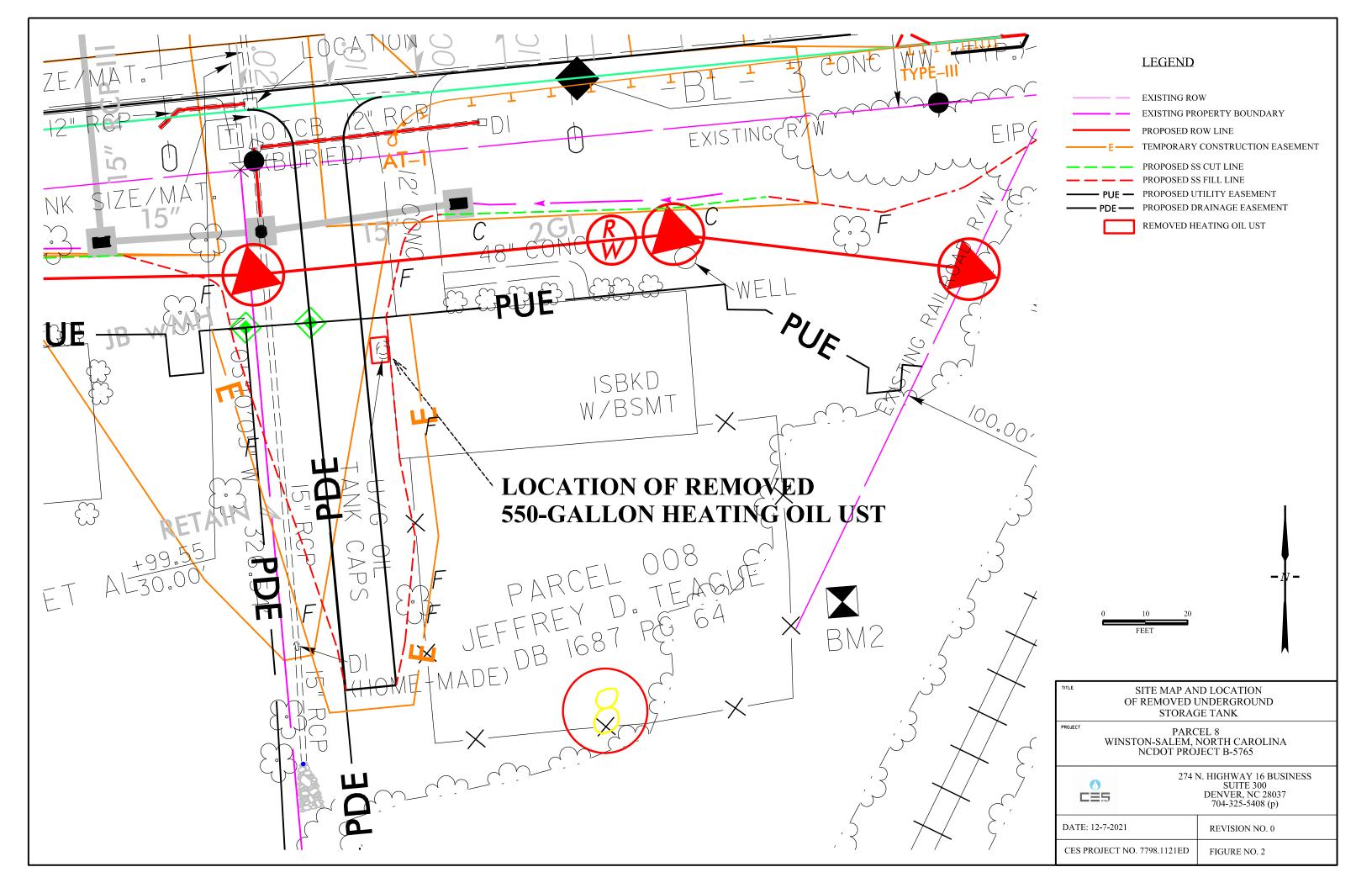
DocuSigned by:

Well Dec 14, 2021

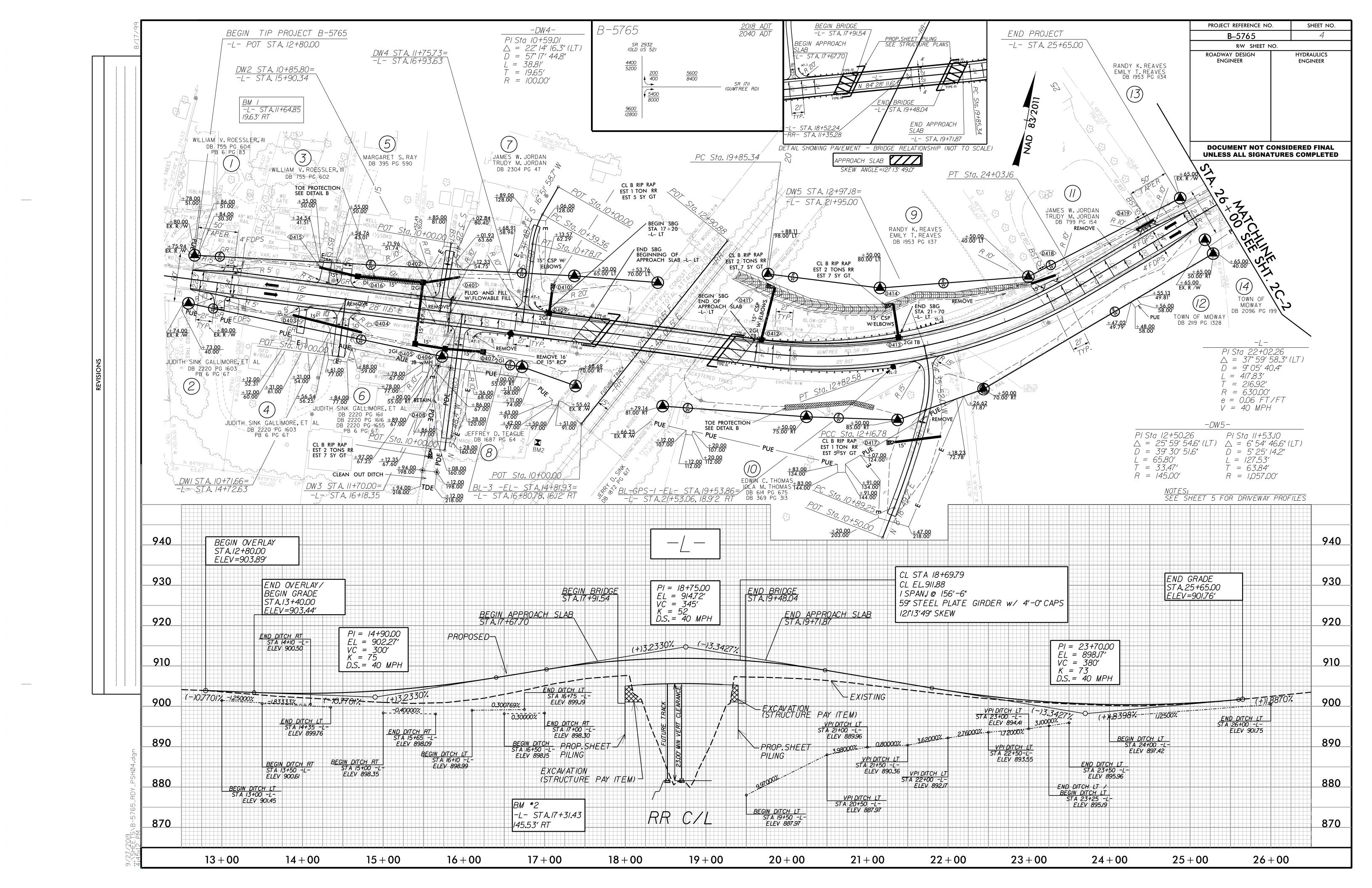
Charles Heleine, PE, REPA Senior Environmental Engineer CES Group Engineers, LLP







APPENDIX A NCDOT PROJECT (RIGHT OF WAY) PLAN SHEET NO.4



APPENDIX B PHOTOGRAPHIC LOG

Heating Oil UST Removal (222 Gumtree Road, Winston Salem, NC)

NCDOT Parcel # 008 PSH 4

NCDOT Project # B-5765



Heating Oil UST located adjacent to the west facing exterior wall of the single-family residential structure (11.16.2021)



Uncovering the top of the Heating Oil UST (12.01.2021)

Heating Oil UST Removal (222 Gumtree Road, Winston Salem, NC)

NCDOT Parcel # 008 PSH 4

NCDOT Project # B-5765



Vacuum extraction of Heating Oil UST contents prior to removal (12.01.2021)



Uncovering the west sidewall of the Heating Oil UST (12.01.2021)

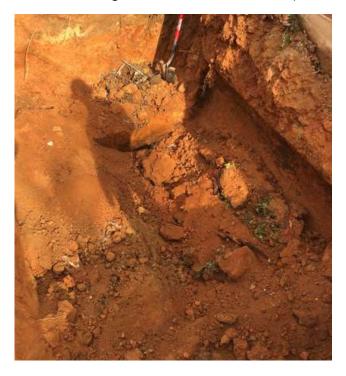
Heating Oil UST Removal (222 Gumtree Road, Winston Salem, NC)

NCDOT Parcel # 008 PSH 4

NCDOT Project # B-5765



Removal of the Heating Oil UST from the subsurface (12.01.2021)



Tank grave upon removal (12.01.2021)

Heating Oil UST Removal (222 Gumtree Road, Winston Salem, NC)

NCDOT Parcel # 008 PSH 4

NCDOT Project # B-5765



Transportation of Heating Oil UST by CERT (12.01.2021)



View of former Heating Oil UST location upon site departure (12.01.2021)

APPENDIX C MANIFESTS

			W.C.	- 5	9 6 6	2				
NON-HAZARDOUS WASTE MANIFEST	I. Generator ID Number	2. Page 1 of	3. Emergency Response		4. Waste T	racking Numb	er	-		
5. Generator's Name and Mailing	Address UP Engine	015	Generator's Site Address							
		Winston Salem NC								
6. Transporter 1 Company Name	6. Transporter 1 Company Name				U.S. EPA ID Number					
7. Transporter 2 Company Name	CERT 7. Transporter 2 Company Name				U.S. EPA ID Number					
Designated Facility Name and	8. Designated Facility Name and Site Address U.S. EPA ID Number									
Facility's Phone:										
9. Waste Shipping Name a	and Description		No.	ainers Type	11. Total Quantity	12. Unit Wt./Vol.				
heat in	19 0:1				250	991				
0:1 +9	ink lemove	² d		ı	500	991				
3.										
4.										
13. Special Handling Instructions	13. Special Handling Instructions and Additional Information									
14. GENERATOR'S/OFFEROR'S	CERTIFICATION: I hereby declare that d, and are in all respects in proper conditi	the contents of this consignment	are fully and accurately de-	scribed above	e by the proper sh	nipping name, a	nd are classified, pac	kaged,		
Generator's/Offeror's Printed/Type	ed Name	Si	gnature Lucy	Har			Month Day			
15. International Shipments	NCDOT B-5 ☐ Import to U.S.	Export from	1		7		121	2/		
Transporter Signature (for exports 16. Transporter Acknowledgment	s only):			ving U.S.:				ay.		
Transporter 1 Printed/Typed Nam Cliff w9	1/24/	Si	gnature PPP	- Ine	du	car	Month Day	Year		
16. Transporter Acknowledgment Transporter 1 Printed/Typed Nam Cliff W9 Transporter 2 Printed/Typed Nam		Si	gnature	0.0			Month Day			
17. Discrepancy 17a. Discrepancy Indication Space										
Tra. Discrepancy indication space	Quantity	Туре	Residue		Partial Re	jection	Full Re	jection		
17b. Alternate Facility (or General	tor) CEKT-56 -505-6799	40 Daphne L	Manifest Reference	Number:	U.S. EPA ID	Number				
Facility's Phone: \$77	-505-6799	"Charl	offe, NC							
17c. Signature of Alternate Facility	y (or Generator)		-				Month Day	y Year		
Facility's Phone: \$7.7 17c. Signature of Alternate Facility										
18. Designated Facility Owner or	Operator: Certification of receipt of mater	rials covered by the manifest exce	pt as noted in Item 17a							
Printed/Typed Name	HW. Lucas		gnature	In	_		Mortin Day	y Year		
69-BLC-O 5 11977 (Rev. 9		100/11	10-01		DESIGNAT	ED FACIL	ITY TO GENE	ERATOR		

169-BLC-O 5 11977 (Rev. 9/09)

- 79743

Auto Parts U Pull & Scrap Metal of Charlotte

9820 Statesville Road • Charlotte, NC 28269 704-509-5550

Weighed on NC Certified Scales

Date (2/2
Customer Jason Singarilla
Commodity Shed - [15feel 500Gal UST
Vehicle DescriptionTag #
Where did you get the material? 222 Cumtrechd. Winston Salem, NC
People in Truck Including Driver
<u></u>
Do you have the legal right to sale this material?Yes
Weighed By
Signature