

PHASE I ENVIRONMENTAL SITE ASSESSMENT

PORTSMOUTH BYPASS PROJECT
SCI-823, PID No. 19415

Prepared for the

OHIO DEPARTMENT OF TRANSPORTATION



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TRANSYSTEMS
CORPORATION



TABLE OF CONTENTS

EXECUTIVE SUMMARY	i
1.0 INTRODUCTION	1
1.1 Previous Investigations	1
2.0 GEOGRAPHY/GEOLOGY FOR THE PROJECT STUDY AREA	2
3.0 ENVIRONMENTAL INFORMATION FOR SUBJECT PARCEL	4
3.1 Keller's Collision (PID 080401012)	4
3.2 Terry Turner (Superior Collision, PID 080401002)	4
3.3 Lucasville Junior High School (PIDs 241601000, 241603000)	5
3.4 Harwood's Gas & Snack (Chabot's #21, PID 240824000)	6
3.5 Buster's Bi-Lo Gas Station (PIDs 161471000, 161064000, 161063000, 161065000)	6
3.6 McGuire Property (PIDs 160841000, 160840000, 160845000, 160838000, 160846000, 160837000, 160847000)	6
3.7 Trowbridge Print Shop (PID 071063000)	7
4.0 CONCLUSIONS AND SPECIFIC PHASE II ESA RECOMMENDATIONS	8
5.0 REFERENCES	

TABLES

1	Parcels Recommended for Phase I ESA	2
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APPENDICES

APPENDIX A	MAPS / SITE PLANS
APPENDIX B	COORDINATION/CONCURRENCE LETTERS
APPENDIX C	USGS TOPOGRAPHIC MAP
APPENDIX D	SCIOTO COUNTY SOIL MAP
APPENDIX E	SCIOTO COUNTY GROUNDWATER RESOURCES MAP
APPENDIX F	BUSTR FILE REVIEW RECORDS
APPENDIX G	AERIAL PHOTOGRAPHS
APPENDIX H	PHOTOGRAPHIC LOG

EXECUTIVE SUMMARY

This Phase I Environmental Site Assessment (ESA) was conducted to support the Preliminary Development of the Portsmouth Bypass Project (SCI-823, PID No. 19415). The project area is located in Scioto County, Ohio. The project area begins at U.S. 23, north of Lucasville (near the intersection of S.R. 348 and U.S. 23), heads east toward Minford, then turns south at the Scioto County Airport and ends at State Route 52 in Wheelersburg. The proposed Portsmouth Bypass will be a four-lane, divided, limited access highway. It will be approximately 16 miles long and require a right-of-way width of approximately 250-400 feet consisting mostly of residential and agricultural property. A proposed interchange will be located near the Greater Scioto County Regional Airport. Proposed ROW acquisition consists of partial takes and whole takes including landlocked properties.

The findings of the ESA Screening (TranSystems, August 2002) identified particular sites within the alignment corridors that may have on-site or off-site significant impacts caused by deleterious wastes or hazardous materials. Based on the ESA Screening, seven (7) sites included in this Phase I ESA include: Keller's Collision, Turner's Automotive Repair Shop, Lucasville Junior High School Bus site, Harwood's Gas Station, Buster's Bi-Lo, the McGuire property, and the Trowbridge Print Shop. Based on the activities conducted under this Phase I ESA, the following conclusions were drawn:

Keller's Collision (PID 080401012) Three (3) plastic, 55-gallon drums were observed in the rear of the garage, along with miscellaneous automobile parts, vinyl siding, concrete block, pallets and sawhorse. According to Mr. Keller, the drums were partially filled with water. No evidence of staining was evident within the gravel parking lot or the rear of the building. Since the Phase I ESA was conducted, the roadway alignment near this parcel has shifted further south; as such, this parcel is now approximately 525 feet north of the alignment. As such, no further investigation is warranted.

Terry Turner (Superior Collision, PID 080401002) Superior Collision operates under State Certificate Number 45648020 (issued 7/31/01) as a small quantity generator (SQG). The small amounts of wastes generated consist of paint thinners and solvents generated by cleaning paint guns and oil removed from automobiles. Four (4) open trenches located under the garage bays drain to the ground surface north of the building, between the concrete block building and the open bay garage. Staining at these outlets was observed and is believed to be dry paint overspray drained when the trenches are cleaned with water. Since the Phase I ESA was conducted, the roadway alignment near this parcel has shifted further south; as such, this parcel is now approximately 35 feet north of the alignment. As such, no further investigation is warranted.

Lucasville Junior High School (PIDs 241601000, 241603000) The UST, lines and fuel dispenser were removed on June 24, 1996. Soil samples collected from the excavation, under the dispenser, and from the stockpiled soils were below Category 1 Action Levels, and the site was recommended for No Further Action status. BUSTR concurred in their letter dated May 21, 1997. No further investigation is recommended. ROW is not required from this site, and proposed "Valley" ROW is located 236 feet south of the former UST system. As such, no further investigation is recommended.

Harwood's Gas & Snack (PID 240824000) The number of tanks currently operating on site are three (3), 8000-gallon, double-walled gasoline tanks with electronic line leak detection and automatic tank gauging that were installed on June 1, 1987. The total tank system was upgraded in June 1999 in accordance with BUSTR. No contamination was found by the inspector during the upgrades. No further investigation is recommended. ROW is not required from this site, and the parcel is located 218 feet north of the proposed "Valley" ROW. As such, no further investigation is recommended.

Buster's Bi-Lo Gas Station (PIDs 161471000, 161064000, 161063000, 161065000). The gasoline station currently operates 3, 8,000-gallon, cathodically-protected gasoline USTs that were originally installed on October 1, 1970. The total UST system was upgraded in October 1994 with electronic line leak detection and automatic tank gauging in accordance with BUSTR, and now operates under Permit Number 73000075. No contamination was found by the inspector during the upgrades. ROW is not required from this site; a retaining wall will be constructed on the south side of Gallia Pike for the proposed "Hill" and "Valley" ROWs. As such, no further investigation is recommended.

McGuire Property (PIDs 160841000, 160840000, 160845000, 160838000, 160846000, 160837000, 160847000). The parcels are occupied by a barn and storage sheds that border the southern parcel boundary. The remainder of the property is occupied by scrap wood, 55-gallon drums, vehicles, tires, railroad ties, and equipment that have accumulated over several years. The 55-gallon drums throughout the property are thought to be empty; however, the drums near the barn have oil in them. No surficial staining or stressed vegetation was noted; however, it is possible that leaks from the vehicles, equipment or drums have occurred. Approximately 218 feet of ROW from the southwestern parcels will be required on the "Hill" alignment. While this wooded area is currently free of stored items, the possibility of contamination exists. Phase II ESA is recommended to address potential contamination within the required ROW.

From approximately 1984 through 1986, Mr. McGuire operated a creosote dipping tank for logs that were then sold to the highway department as guardrail posts. The process consisted of dipping logs in an aboveground dipping tank that held approximately 1,000-1,500 gallons of creosote. The logs were then allowed to 'drip-dry' overnight above the tank. Mr. McGuire indicated that there were no leaks or spills from the tank while it was in operation. Mr. McGuire sold the tank and related equipment approximately 10 years ago. The creosote tank was located in the shed adjacent to (west of) the sawmill operations, approximately 220 feet from the "Hill" ROW. Therefore, Phase II ESA is not recommended to address potential contamination from this operation.

Trowbridge Print Shop (PID 071063000) The parcel is occupied by one (1) residence with a detached garage, the print shop, a shed, and two (2) mobile homes. Since 1970, a print shop has been in operation at the parcel. According to Mr. Trowbridge, the print shop is used for paper printing. The ink is consumed in the process and water solution is used and absorbed by the paper. Coleman fuel is used as cleaning fluid and is absorbed by cotton pads that are disposed as solid waste and/or evaporates. Old ink is allowed to solidify and is disposed as solid waste. No further investigation is recommended.

The following recommendations for Phase II ESA are provided for the McGuire Property:

1. Phase II ESA investigation is warranted for McGuire Property within the area required for the "Hill" ROW.

2. The Phase II ESA should consist of surficial soil samples to be collected from a sampling grid established where leaks from vehicles, equipment and or drums may have occurred.
3. Should the "Hill" alignment be shifted east to include the area of the former creosote operations, two soil borings should be installed at the former location of the aboveground creosote dipping tank. Soil samples from each 2.5-foot interval will be field screened throughout the boring until reaching a terminal depth of 10 feet. The sample exhibiting the highest field screening measurement will be submitted for laboratory analysis for hazardous waste characteristics including TCLP.

Please be advised that the above recommendations are provided for the suspect site identified within the "Hill" alignment. If the "Hill" alignment is selected as the preferred alignment, only then will Phase II ESA proceed at the McGuire parcels as recommended.

1.0 INTRODUCTION

This Phase I Environmental Site Assessment (ESA) was conducted to support the Preliminary Development of the Portsmouth Bypass Project (SCI-823, PID No. 19415). The project area is located in Scioto County, Ohio. The project area begins at U.S. 23, north of Lucasville (near the intersection of S.R. 348 and U.S. 23), heads east toward Minford, then turns south at the Scioto County Airport and ends at State Route 52 in Wheelersburg (Appendix A). The study area occupies portions of Valley, Jefferson, Madison, Harrison, and Porter Townships. The proposed Portsmouth Bypass will be a four-lane, divided, limited access highway. It will be approximately 16 miles long and require a right-of-way width of approximately 250-400 feet consisting mostly of residential and agricultural property. A proposed interchange will be located near the Greater Scioto County Regional Airport. The project will be funded in part by the Appalachian Development Commission and is intended to improve regional mobility and increase Scioto County's potential for attracting new business investment within the economically-depressed area. Proposed ROW acquisition consists of partial takes and whole takes including landlocked properties.

1.1 Previous Investigations

TranSystems Corporation conducted an ESA Screening of the Portsmouth Bypass project (TranSystems, August 2002). The ESA Screening consisted of site reconnaissance of the alignment corridors including exempt, commercial and industrial properties (based on the Scioto County Auditor Land Use Codes), a review of historical aerial photographs for the alignment corridors, a review of readily available regulatory information concerning the alignment corridors. The findings of the ESA Screening identified particular sites within the alignment corridors that may have on-site or off-site significant impacts caused by deleterious wastes or hazardous materials. Twelve (12) suspect sites were identified within feasible alignment corridors A, B, and C (Table 1).

As additional design information became available, seven (7) sites were no longer within the proposed ROW (shaded in gray on Table 1). With the Office of Environmental Service's concurrence, these sites were excluded from Phase I ESA and/or BUSTR file review. In January 2003, ODOT requested that TranSystems perform a more detailed study of the "hill alignment" that had previously been eliminated from further evaluation. On March 5, 2003, OES recommended that the parcels owned by Pearl and Ora McGuire (auto salvage yard) be included in the Phase I ESA due to its location within the hill alignment. Further, the Trowbridge Print Shop was subsequently identified on a parcel that was previously thought to be residential. The McGuire parcels and the Trowbridge Print Shop site are shaded in yellow on Table 1. As such, the seven (7) sites included in this Phase I ESA include: Keller's Collision, Turner's Automotive Repair Shop, Lucasville Junior High School Bus site, Harwood's Gas Station, Buster's Bi-Lo, the McGuire property, and the Trowbridge Print Shop. Coordination and concurrence letters are presented in Appendix B.

The Phase I ESA activities described herein were undertaken in accordance with the *Ohio Department of Transportation Environmental Site Assessment Guidelines* (September, 1999) to further determine the potential of encountering hazardous substances from the suspect parcel prior to construction activities. Data collection and site visits described in this Phase I ESA were conducted between March and July 2003.

Table 1. Parcels Recommended for Phase I ESA

PID	SITE NAME	ADDRESS	RATIONALE
080401012	Keller's Collision	133 Morris Blue Run Lane, Lucasville	Automotive repair shop that is not listed as a RCRA generator. This site may utilize solvents or strippers in the auto repair process; disposal is unknown.
080401002	Terry Turner (automotive repair shop)	Lucasville-Minford Road, Lucasville	Automotive repair shop that is not listed as a RCRA generator. This site may utilize solvents, strippers or lubricants in the auto repair process; disposal is unknown.
241601000	Lucasville Jr. High School	393 Indian Drive, Lucasville	LUST site. An area near SR 728 is used for school bus parking and is the assumed location of the LUST site.
240824000	Harwood's Gas Station	299 Indian Drive, Lucasville	Three USTs are located on this site installed in 1987. Not a reported LUST site; however, the USTs and associated leak detection system may be out of BUSTR compliance.
161471000 161064000 161063000 161065000	Buster's Bi-Lo Gas Station	7151 Gallia Pike, Wheelersburg	Active gas station that does not appear on the database as a LUST or UST site.
160841000 160840000 160845000 160838000 160846000 160837000 160847000	Ora & Pearl McGuire	0 Slocum Avenue, Highland Bend	Automobile salvage yard, vehicles stored across this parcel.
071063000	Trowbridge Print Shop	9309 SR 139, Minford	Print shop; use of solvents, disposal unknown.
160125000	Earl's Car Parts	1984 SR 140, Slocum	Auto salvage yard with an auto service garage located on the western portion.
072477001	Scioto County Airport	SR 335, Minford	Jet fuel ASTs and a BP re-fueling facility; BP facility is a LUST site.
170639000 170666000 174529000	Diamond REO (truck repair)	7300 & 7515 Ohio River Road, Wheelersburg	LUST site. Fuel island observed. Not within the proposed alignment; however, based on the rapid permeability of the underlying soils, a Phase I ESA was recommended.
241722000	Scioto County Engineers Outpost	56 SR 728, Lucasville	LUST site. Several ASTs and fuel islands were observed on the site.
241758000	Firststar Bank site	10 Merit Street (US 23 & SR 348), Lucasville	A gas station occupied the northern portion of this site during the 1960s. USTs are still present.
160206000	Gampp's Marathon	SR 140, Slocum	This parcel has historically been a gasoline station.
160207000	Gerlach Farm & Feed Store	SR 140, Slocum	This parcel is used for the bulk storage of fuel. The secondary containment appeared to be older than the AST situated inside.

2.0 GEOGRAPHY/GEOLOGY FOR THE PROJECT STUDY AREA

The study area is dominated by rural communities, timberland and small agricultural farms. Commercial and industrial properties are mainly concentrated near Lucasville and Wheelersburg. The study area has a wide range of topographic relief. As shown in Appendix C, the western portion of the study area, near Lucasville, is situated along the Scioto River Valley. The central portion of the study area is located in hilly, forested, and rural land. The eastern and southern portion of the study area, from Minford to Wheelersburg, is located in the Little Scioto River Valley. Topographic elevations range from 1,100 feet above mean sea level (MSL) near Morris Lane (County Road 54) east of Lucasville to about 500 feet above MSL at U.S. 52 in Wheelersburg.

Scioto County is within the unglaciated Allegheny Plateau physiographic region of Ohio. The unglaciated plateau across the southeastern one-third of Ohio is known as the "hill country", with steep wooded hills with narrow ridges and valleys. In the north central portion of the study area the landscape is strongly dissected and slopes are dominantly steep or very steep. Bedrock in the county consists of Pennsylvanian, Mississippian, and Devonian-age geologic formations. The bedrock was deposited approximately 200 to 500 million years ago. The bedrock of the study area is mostly of the Waverly Group. This group consists of shale, sandstone, and conglomerate material deposited in shallow waters close to ancient shorelines. Most of the soils in the study region are well drained or moderately well drained. Many soils are productive; however, much of the county is moderately to very steep, and slope and control of erosion are the major concerns managing the soils for land use development. Appendix D of this document presents the general soil map of the county and includes a table with soil unit descriptions for the study area.

There are several fresh water streams that traverse the study area and are tributaries of the Scioto River and Little Scioto River. A surface elevation ridge divides the study area into two watersheds, is oriented on a northeast to southwest axis, and is situated through the middle of Jefferson Township parallel to County Road 177. West of this ridge, surface water streams and creeks flow toward the Scioto River. East of this ridge, surface water streams and creeks flow toward the Little Scioto River. It is likely that regional groundwater flow direction mimics the surface water flow paths. Surface water flows ultimately discharge into the Ohio River via the Scioto River watershed. The Scioto River Watershed, which extends north well beyond Scioto County, includes a drainage area of 6,517 square miles and 4,206 stream miles.

The Ohio and Scioto River Valleys are good sources of water supply in Scioto County. Water is obtained from the streams and from sand and gravel deposits that underlie the streambeds as alluvium aquifers. The water supply is limited in the majority of the study area because the underlying layers of shale or siltstone bedrock are poor aquifers. As shown in Appendix E (Groundwater Resources of Scioto County), with exception to the Scioto River and Little Scioto River Valleys, thin clay deposits or shaley bedrock yield limited quantities of groundwater. The Scioto County Water District 1 located in Lucasville has several deep water wells set in the Scioto River Valley alluvium aquifer that supply potable water to the rural water systems throughout the corridor.

3.0 PHASE I ESA PARCEL RECONNAISSANCE

A BUSTR file review was performed for Lucasville Junior High School, Harwood's Gas & Snack, and Buster's Bi-Lo. The records obtained through the file review are provided in Appendix F. Aerial photography research was performed at the Scioto County Soil and Water Conservation District Office for the subject parcels to provide information about historical land use changes and potential sources of contamination (Appendix G). Site reconnaissance was conducted in April and July 2003 to support this Phase I ESA. A site reconnaissance photographic log is presented in Appendix H. The activities conducted under the Phase I ESA for each of the seven (7) sites are presented below.

3.1 Keller's Collision (PID 080401012)

The 1966 and 1981 aerial photographs show this parcel as undeveloped and/or used for agricultural purposes.

Currently, the parcel is owned by Ms. Ida and Mr. Joseph Keller. One (1) concrete block, garage building is located on the parcel. A gravel driveway off Morris Lane and parking lot bound the parcel to the north and east. One (1) Waste Management dumpster was located at the rear of the west end of the driveway. Three (3) plastic, 55-gallon drums were observed in the rear of the garage, along with miscellaneous automobile parts, vinyl siding, concrete block, pallets and sawhorse. The drums were at least partially filled with unknown liquid. No evidence of staining was evident within the gravel parking lot or the rear of the building. A pond with a small dock is located behind the building. No stressed vegetation was observed along the pond's edge. No oil sheen was observed on the surface of the pond. An aboveground propane tank is situated between the garage building and the pond. This parcel is located 535 feet north of the proposed "Valley" ROW.

According to an interview with Mr. Keller, he uses the garage to do minor automobile repairs on the weekends. Additionally, he stores waste solvents (thinner) in 5 gallon pails and has accumulated ten gallons in the past three years of operation. He currently does not have an OEPA permit.

3.2 Terry Turner (Superior Collision, PID 080401002)

The 1951, 1966 and 1981 aerial photographs show this parcel with a barn and outbuilding, with the majority of the parcel used for agricultural purposes.

Currently, the parcel is owned by Mr. Terry Turner. Superior Collision consists of one concrete block building with 4 garage bays. At the rear (north) of the building is an additional storage shed. Adjacent (west) of the concrete block building is a glazed block structure that was formerly used as a dairy barn. Mr. Turner currently rents a portion of the dairy barn as a 1-room apartment that was formerly used as his residence. A gravel drive and parking lot are located on the south side of the parcel, along SR 728. The automobile repair shop has operated on the parcel since 2001. Automobile repairs are limited to small collision repairs and painting. Superior Collision operates under State Certificate Number 45648020 (issued 7/31/01) as a small quantity generator (SQG). The small amounts of wastes generated consist of paint thinners and solvents generated by cleaning paint guns and oil removed from automobiles.

Wastes are transported off-site by Safety Kleen, which has picked up waste twice since 2001. Thompson's Oil picks up the used oil for recycling. Four (4) open trenches located under the garage bays drain to the ground surface north of the building, between the concrete block building and the storage shed. Staining at these outlets was observed and is believed to be dry paint overspray drained when the trenches are cleaned with water. Acetylene, oxygen and carbon dioxide tanks, lubricants, paint cans, clear coat, thinner and antifreeze are located on the floor and on storage racks along the interior north wall of the concrete block building. No evidence of staining was observed within the gravel parking lot or on other portions of the parcel. This parcel is located approximately 50 feet north of the proposed "Valley" ROW.

According to Mr. Turner, the past use of the property was agricultural and no spills have occurred. Mr. Turner formerly operated the automobile repair shop for 10-11 years on Parcel 080401009, now a laundromat owned by Prime Markets, Inc. According to Mr. Turner, the Phase I ESA conducted for the property transfer did not prevent Prime Markets, Inc. from purchasing the property and redeveloping it as a laundromat.

3.3 Lucasville Junior High School (PIDs 241601000, 241603000)

The 1939 and 1951 aerial photographs show these parcels as undeveloped and/or used for agricultural purposes. The 1966 aerial shows that the school building has been constructed, with additional development in the surrounding area. The 1981 aerial photograph shows the addition of the bus garage, with additional development in the surrounding area.

Currently, the parcels are owned by the Valley Local School District. The parcels were developed in 1956 as a school using federal impact funding, and is bound to the south by Indian Drive, to the east by Pleasant Drive and the west by Jo-Etta Drive. The majority of the parcels are occupied by the school building, with a bus garage and storage facility located in the northwest corner of PID 241603000. Floor drains in the bus garage drain to a grease trap, then discharge to the City sanitary sewer. Little's pumps out the grease trap as needed. A used oil tank is also located in the bus garage; Thompson's Oil collects the used oil for recycling. ROW is not required from this site, and proposed "Valley" ROW is located 236 feet south of the former UST system.

The ESA Screening recommended a Phase I ESA on PID 241601000 because this site is listed as a LUST site and the bus parking was located on the east side of the parcel; therefore, it was assumed that the LUST site was in that area. However, according to Mr. Jeff Hamilton, Construction Coordinator, the 1,000-gallon steel gasoline UST and fuel dispenser were formerly located in the northwest corner of PID 241603000, south of the bus garage and storage facility. Based on the ESA Screening, this UST was removed in 1996 and has a 'no further action' status. TranSystems conducted a BUSTR file review on July 30, 2003. According to the UST Closure Report, Incident No. 7360438 (Waste-Tron, Inc., July 1996), the UST, lines and fuel dispenser were removed on June 24, 1996. The tanks were pitted and corroded, but no visible holes were present. Some soil staining was visible in the excavation and dispenser area. Once the initial excavation was completed, soil samples were collected from the excavation, under the dispenser, and from the stockpiled soils (approximately 28 yd³). The analytical results for each of the sampling locations were below Category 1 Action Levels, and the site was recommended for No Further Action status. BUSTR concurred in their letter dated May 21, 1997.

3.4 Harwood's Gas & Snack (Chabot's #21, PID 240824000)

The 1939 and 1951 aerial photographs show this parcel as undeveloped and/or used for agricultural purposes. Development from the 1966 aerial cannot be determined; however, the 1960 aerial photograph shows that the parcel is undeveloped. The 1981 aerial photograph shows the addition of the gasoline station, with additional development in the surrounding area. Currently, the parcel is owned by Ms. Rosemary Harwood. The number of tanks currently operating on site are three (3), 8000-gallon, double-walled gasoline tanks that were installed on June 1, 1987. The total tank system was upgraded in June 1999 with electronic line leak detection and automatic tank gauging in accordance with BUSTR, and now operates under Permit Number P00001. The front three quarters of the parcel is paved with asphalt. The fuel island and UST system is located along the parcel frontage that borders Indian Drive. A covered pit that potentially contains an oil/water separator is located on the northeast corner of the paved area. A depressed area, possibly a former UST location, is also in this area. A propane tank is located at the rear (north) of the parcel in a grassy area. No evidence of staining was evident within the grassy area at the rear of the building. A chain link fence separates this parcel from the Lucasville Junior High School to the east and the parcel to the north. ROW is not required from this site, and the parcel is located 218 feet north of the proposed "Valley" ROW.

According to Ms. Harwood, the parcel has operated as a gasoline station and underground storage tanks have been in operation since the 1960s. No contamination was found by the inspector during the upgrades.

3.5 Buster's Bi-Lo Gas Station (PIDs 161471000, 161064000, 161063000, 161065000)

Land use prior to 1961 was residential.

Currently, the parcels are owned by Ms. Agnes and Mr. Delmer Hicks. This parcel was identified during ESA Screening site reconnaissance activities but did not appear on the UST or LUST database reports. The parcel is paved with concrete, with the fuel dispenser located on the parcel frontage along Old Gallia Pike. The USTs are located in the northeast corner of the parcel. The gasoline station currently operates 3, 8,000-gallon, cathodically-protected gasoline USTs that were originally installed on October 1, 1970. The total UST system was upgraded in October 1994 with electronic line leak detection and automatic tank gauging in accordance with BUSTR, and now operates under Permit Number 73000075. No contamination was found by the inspector during the upgrades. ROW is not required from this site; a retaining wall will be constructed on the south side of Gallia Pike for the proposed "Hill" and "Valley" ROWs.

According to Mr. Jerry Garland, Manager, the parcel has operated as a gasoline station for at least 25 years; the former parcel use was residential.

3.6 McGuire Property (PIDs 160841000, 160840000, 160845000, 160838000, 160846000, 160837000, 160847000)

The 1939 aerial photograph shows the parcels occupied by a barn/shed. The 1981 aerial photograph shows additional outbuildings and/or items on the northern portion of the parcels.

Currently, Ms. Ora and Mr. Pearl McGuire own the parcels. The parcels are occupied by a barn and storage sheds that border the southern parcel boundary. The remainder of the property is occupied by scrap wood, 55-gallon drums, vehicles, tires, railroad ties, and equipment that have accumulated over several years. The 55-gallon drums throughout the property are thought to be empty; however, the drums near the barn have oil in them. No surficial staining or stressed vegetation was noted; however, it is possible that leaks from the vehicles, equipment or drums have occurred. Approximately 218 feet of ROW from the southwestern parcels will be required on the "Hill" alignment. This wooded area appeared to be free of stored items.

According to Mr. McGuire, the parcels were purchased in 1947 and were occupied by a 2-bedroom residence and strawberry/fruit tree farm at that time. Between 1952 and 1999, Mr. McGuire conducted sawmill operations in the barn located along the southern border of the parcels and built and repaired pallets. From approximately 1984 through 1986, Mr. McGuire operated a creosote dipping tank for logs that were then sold to the highway department as guardrail posts. The process consisted of dipping logs in an aboveground dipping tank that held approximately 1,000-1,500 gallons of creosote. The logs were then allowed to 'drip-dry' overnight above the tank. Mr. McGuire indicated that there were no leaks or spills from the tank while it was in operation. Mr. McGuire sold the tank and related equipment approximately 10 years ago. The creosote tank was located in the shed adjacent to (west of) the sawmill operations, approximately 220 feet from the "Hill" ROW.

3.7 Trowbridge Print Shop (PID 071063000)

The 1960 aerial photograph shows the parcel as being used for agricultural purposes; the structures present cannot be determined.

Currently, the parcel is owned by Ms. Barbara and Mr. Richard Trowbridge. The parcel is occupied by one (1) residence with a detached garage, the print shop, a shed, and two (2) mobile homes. Since 1970, a print shop has been in operation at the parcel. A pole-mounted transformer is located on the east side of the driveway, near SR 139. A newer, pole-mounted transformer is also located at the rear of the property behind the mobile homes. No staining or stressed vegetation were observed on the parcel. This parcel is located in both the "Hill" and "Valley" ROWs.

According to Mr. Trowbridge, the print shop is used for paper printing. The ink is consumed in the process and water solution is used and absorbed by the paper. Coleman fuel is used as cleaning fluid and is absorbed by cotton pads that are disposed as solid waste and/or evaporates. Old ink is allowed to solidify and is disposed as solid waste. According to Mr. Trowbridge, the print shop generates approximately \$20,000/year in business.

4.0 CONCLUSIONS AND SPECIFIC PHASE II ESA RECOMMENDATIONS

Based on the activities conducted under this Phase I ESA, the following conclusions were drawn:

1. **Keller's Collision (PID 080401012).** Three (3) plastic, 55-gallon drums were observed in the rear of the garage, along with miscellaneous automobile parts, vinyl siding, concrete block, pallets and sawhorse. According to Mr. Keller, the drums were partially filled with water. No evidence of staining was evident within the gravel parking lot or the rear of the building. Since the Phase I ESA was conducted, the roadway alignment near this parcel has shifted further south; as such, this parcel is now approximately 525 feet north of the alignment. As such, no further investigation is warranted.
2. **Terry Turner (Superior Collision, PID 080401012).** Superior Collision operates under State Certificate Number 45648020 (issued 7/31/01) as a small quantity generator (SQG). The small amounts of wastes generated consist of paint thinners and solvents generated by cleaning paint guns and oil removed from automobiles. Four (4) open trenches located under the garage bays drain to the ground surface north of the building, between the concrete block building and the open bay garage. Staining at these outlets was observed and is believed to be dry paint overspray drained when the trenches are cleaned with water. Since the Phase I ESA was conducted, the roadway alignment near this parcel has shifted further south; as such, this parcel is now approximately 35 feet north of the alignment. As such, no further investigation is warranted.
3. **Lucasville Junior High School (PIDs 241601000, 241603000).** The UST, lines and fuel dispenser were removed on June 24, 1996. Soil samples collected from the excavation, under the dispenser, and from the stockpiled soils were below Category 1 Action Levels, and the site was recommended for No Further Action status. BUSTR concurred in their letter dated May 21, 1997. ROW is not required from this site, and proposed "Valley" ROW is located 236 feet south of the former UST system. As such, no further investigation is recommended.
4. **Harwood's Gas & Snack (Chabot's #21, PID 240824000).** The number of tanks currently operating on site are three (3), 8000-gallon, double-walled gasoline tanks with electronic line leak detection and automatic tank gauging that were installed on June 1, 1987. The total tank system was upgraded in June 1999 in accordance with BUSTR. No contamination was found by the inspector during the upgrades. ROW is not required from this site, and the parcel is located 218 feet north of the proposed "Valley" ROW. As such, no further investigation is recommended.
5. **Buster's Bi-Lo Gas Station (PIDs 161471000, 161064000, 161063000, 161065000).** The gasoline station currently operates 3, 8,000-gallon, cathodically-protected gasoline USTs that were originally installed on October 1, 1970. The total UST system was upgraded in October 1994 with electronic line leak detection and automatic tank gauging in accordance with BUSTR, and now operates under Permit Number 73000075. No contamination was found by the inspector during the upgrades. ROW is not required from this site; a retaining wall will be constructed on the south side of Gallia Pike for the proposed "Hill" and "Valley" ROWs. As such, no further investigation is recommended.

6. **McGuire Property (PIDs 160841000, 160840000, 160845000, 160838000, 160846000, 160837000, 160847000).** The parcels are occupied by a barn and storage sheds that border the southern parcel boundary. The remainder of the property is occupied by scrap wood, 55-gallon drums, vehicles, tires, railroad ties, and equipment that have accumulated over several years. The 55-gallon drums throughout the property are thought to be empty; however, the drums near the barn have oil in them. No surficial staining or stressed vegetation was noted; however, it is possible that leaks from the vehicles, equipment or drums have occurred. Approximately 218 feet of ROW from the southwestern parcels will be required on the "Hill" alignment. While this wooded area is currently free of stored items, the possibility of contamination exists. Phase II ESA is recommended to address potential contamination within the required ROW.

From approximately 1984 through 1986, Mr. McGuire operated a creosote dipping tank for logs that were then sold to the highway department as guardrail posts. The process consisted of dipping logs in an aboveground dipping tank that held approximately 1,000-1,500 gallons of creosote. The logs were then allowed to 'drip-dry' overnight above the tank. Mr. McGuire indicated that there were no leaks or spills from the tank while it was in operation. Mr. McGuire sold the tank and related equipment approximately 10 years ago. The creosote tank was located in the shed adjacent to (west of) the sawmill operations, approximately 220 feet from the "Hill" ROW. Therefore, Phase II ESA is not recommended to address potential contamination from this operation.

7. **Trowbridge Print Shop (PID 071063000).** The parcel is occupied by one (1) residence with a detached garage, the print shop, a shed, and two (2) mobile homes. Since 1970, a print shop has been in operation at the parcel. According to Mr. Trowbridge, the print shop is used for paper printing. The ink is consumed in the process and water solution is used and absorbed by the paper. Coleman fuel is used as cleaning fluid and is absorbed by cotton pads that are disposed as solid waste and/or evaporates. Old ink is allowed to solidify and is disposed as solid waste. This parcel is located in both the "Hill" and "Valley" ROWs; however, no further investigation is recommended.

The following recommendations for Phase II ESA are provided for the McGuire Property:

1. Phase II ESA investigation is warranted for McGuire Property within the area required for the "Hill" ROW.
2. The Phase II ESA should consist of surficial soil samples to be collected from a sampling grid established where leaks from vehicles, equipment and or drums may have occurred.
3. Should the "Hill" alignment be shifted east to include the area of the former creosote operations, two soil borings should be installed at the former location of the aboveground creosote dipping tank. Soil samples from each 2.5-foot interval will be field screened throughout the boring until reaching a terminal depth of 10 feet. The sample exhibiting the highest field screening measurement will be submitted for laboratory analysis for hazardous waste characteristics including TCLP.

Please be advised that the above recommendations are provided for the suspect site identified within the "Hill" alignment. If the "Hill" alignment is selected as the preferred alignment, only then will Phase II ESA proceed at the McGuire parcels as recommended.

5.0 REFERENCES

Environmental Data Resources, Inc. (EDR), reports, dated August 17 and August 22, 2001.

Hunt, C.B., 1974; Natural Regions of the United States and Canada. W.H. Freeman & Co. Publ.

Ohio Dept. of Natural Resources, 1989: Groundwater Resources of Scioto County.

Scioto County Engineer; County Road Map.

Ohio Dept. of Transportation Office of Environmental Services, 1999: Environmental Site Assessment Guidelines.

Portsmouth Fire District/EMS Personnel; Portsmouth, Ohio and Wheelersburg/Porter, Ohio

State of Ohio Database Reports: 2001, Bureau of Underground Storage Tank Regulations.

U.S. Geological Survey, 7.5-minute series Topographic Maps, Lucasville (1975) and Minford (1990), Ohio; New Boston (1975) and Wheelersburg (1985), Ohio-Kentucky Quadrangles.

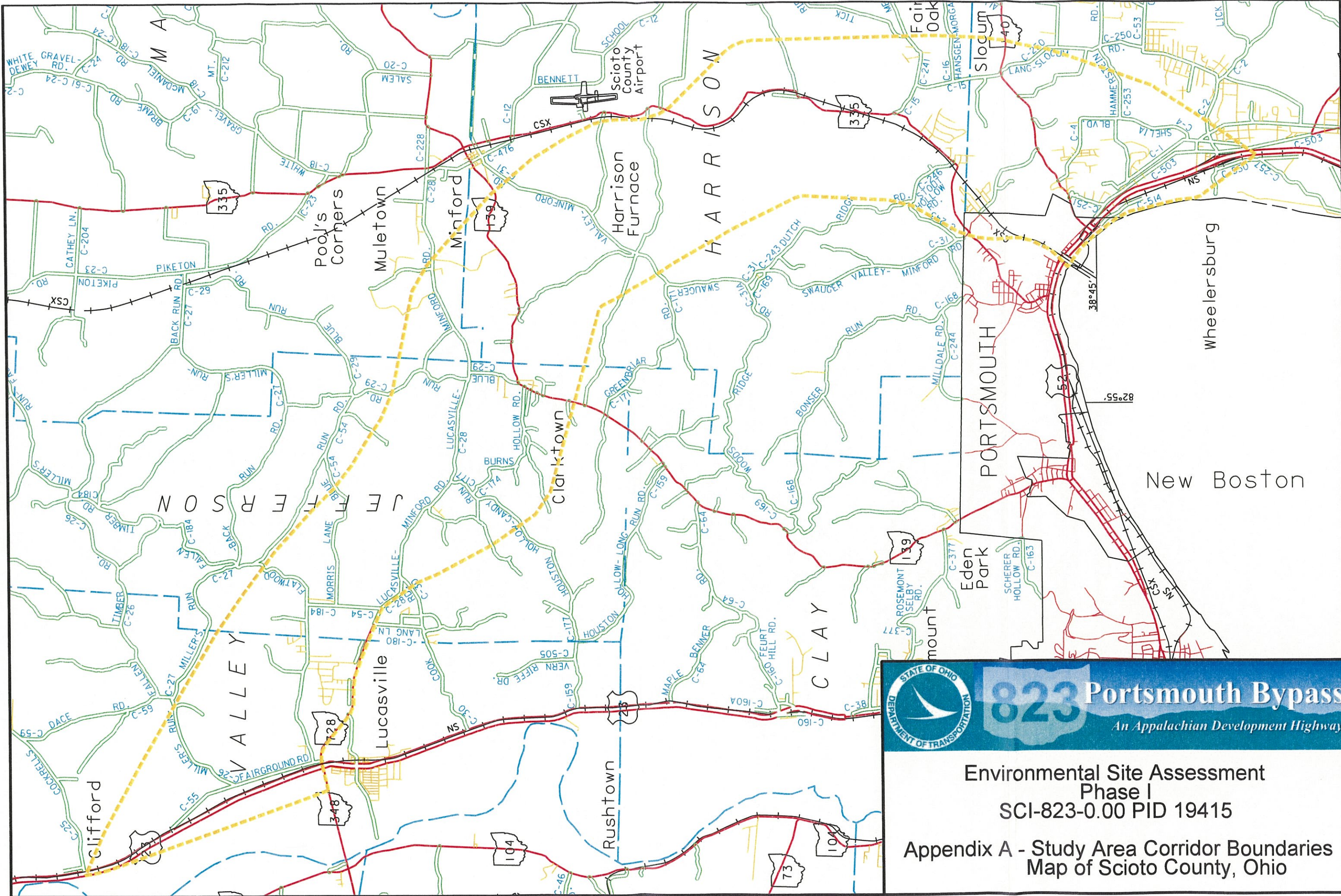
U.S. Dept. of Agriculture, Soil Conservation Service, Soil Survey of Scioto County, Ohio, 1989.

APPENDICES



**APPENDIX A -
STUDY AREA MAP / SITE PLANS**

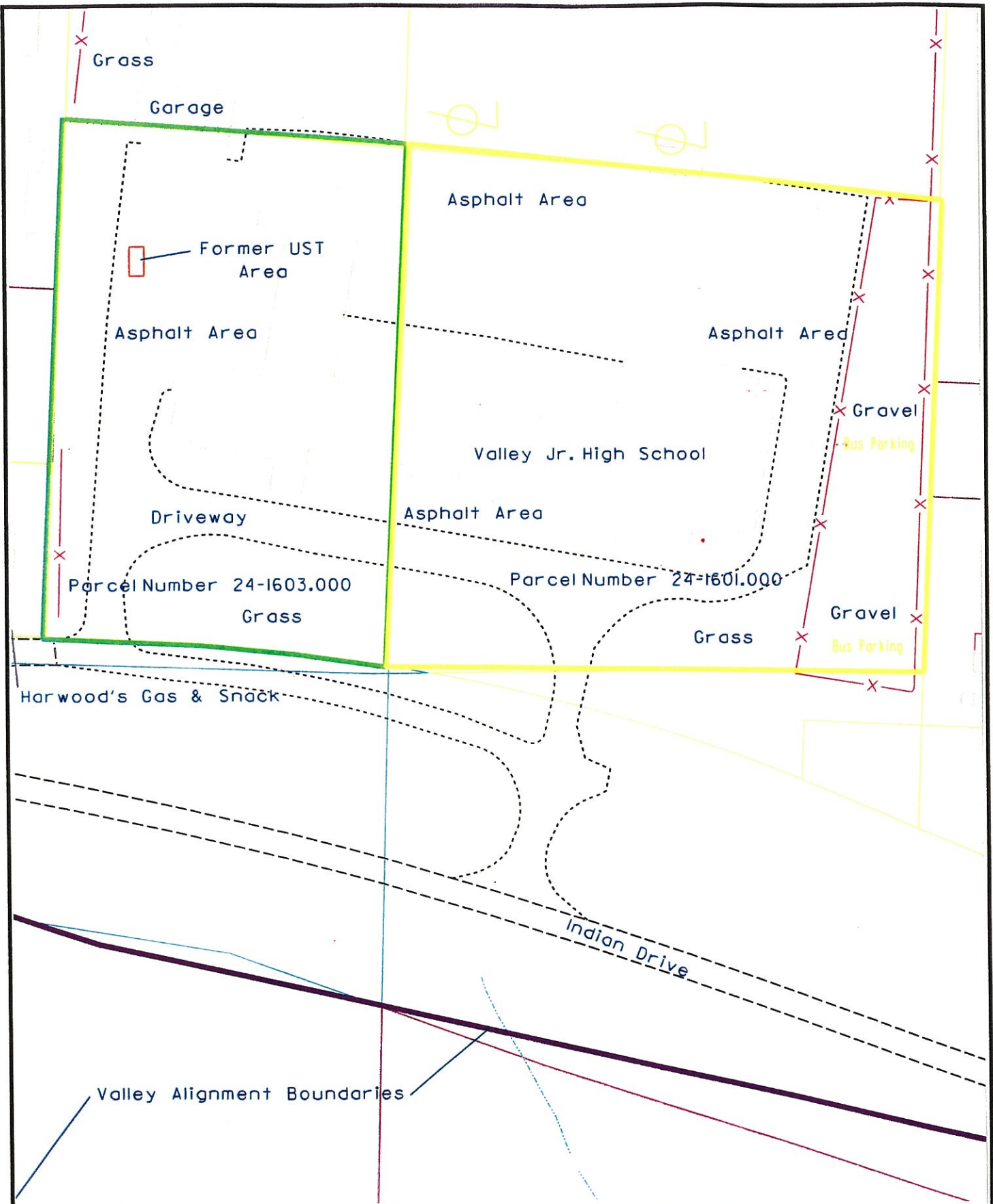





823 Portsmouth Bypass
An Appalachian Development Highway

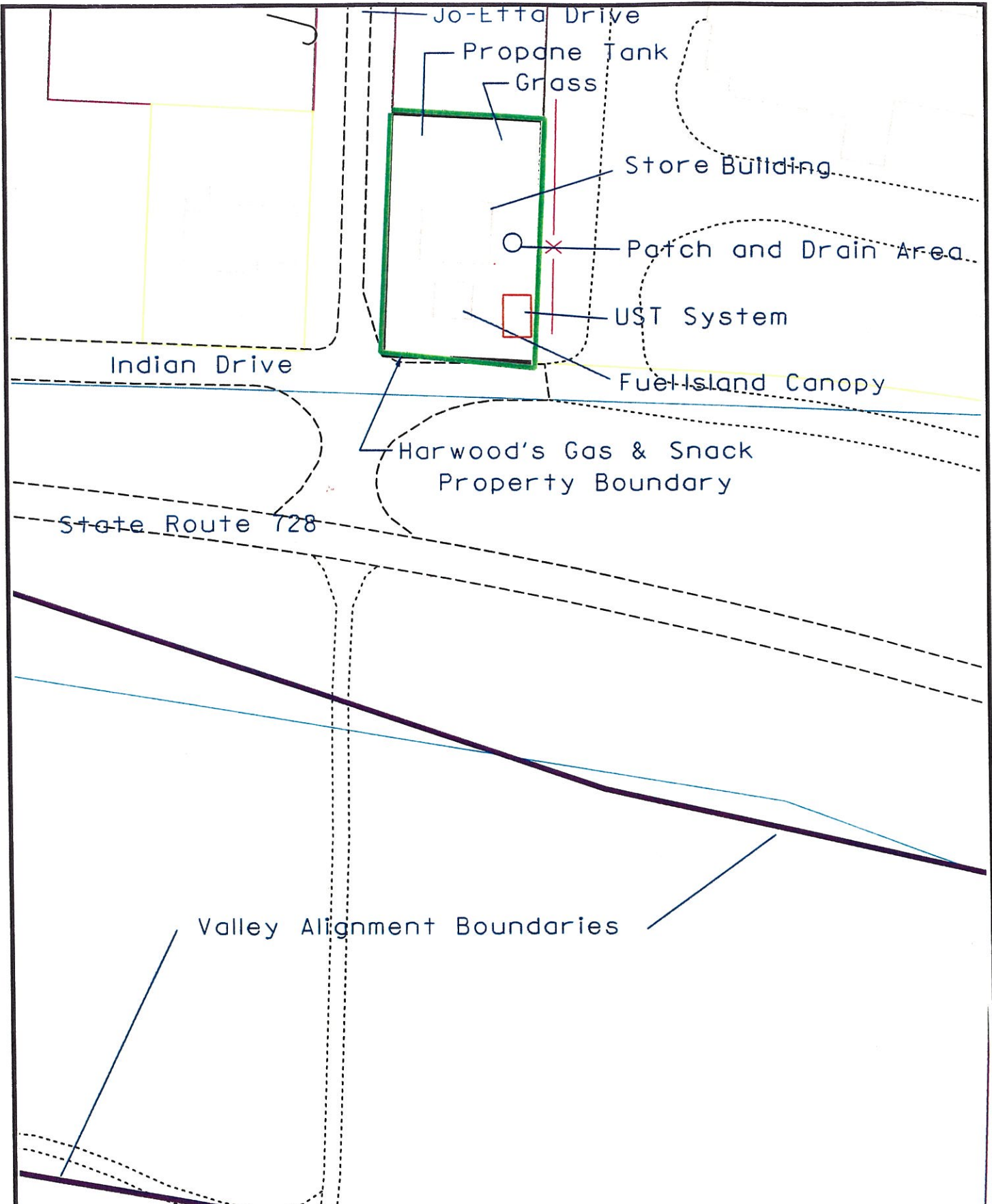
Environmental Site Assessment
 Phase I
 SCI-823-0.00 PID 19415

Appendix A - Study Area Corridor Boundaries
 Map of Scioto County, Ohio



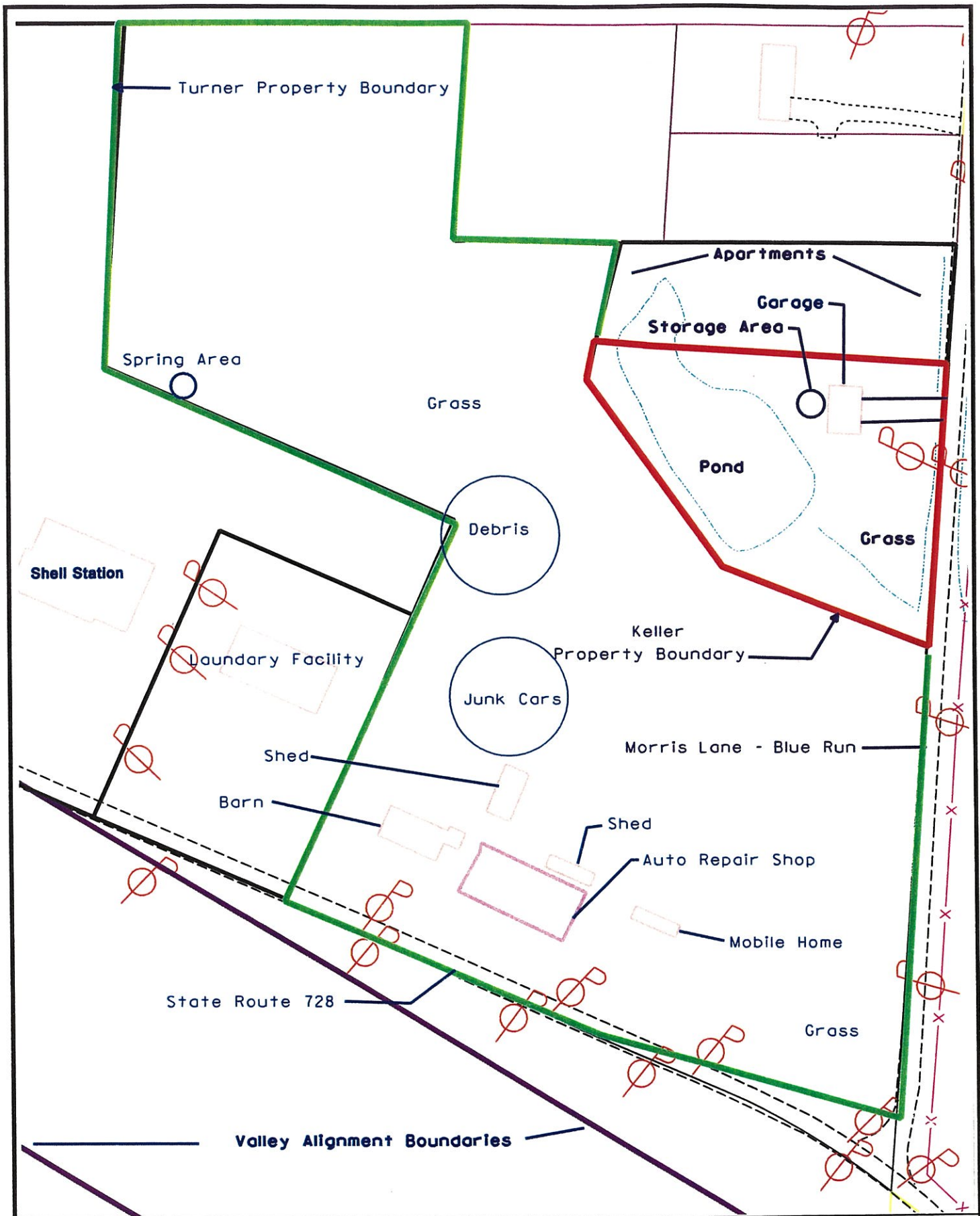
Site Plan
 Valley Schools
 SCI-823-0.00, PID 19415
 Portsmouth Bypass Project
 SCIOTO COUNTY, OHIO

Project No.:
 P403020102



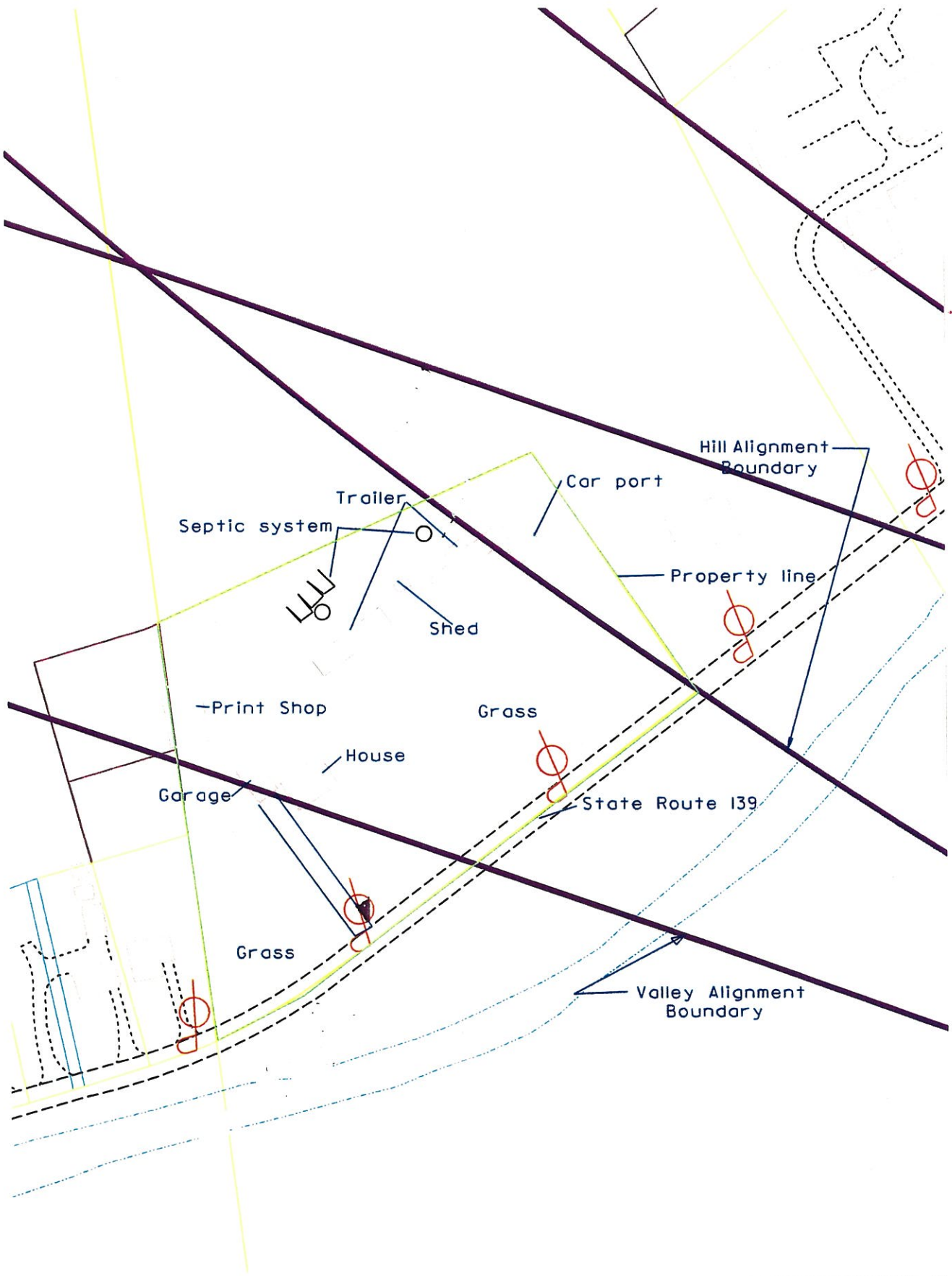
Site Plan
 Harwood's Gas & Snack
 SCI-823-0.00, PID 19415
 Portsmouth Bypass Project
 SCIOTO COUNTY, OHIO

Project No.:
 P403020102



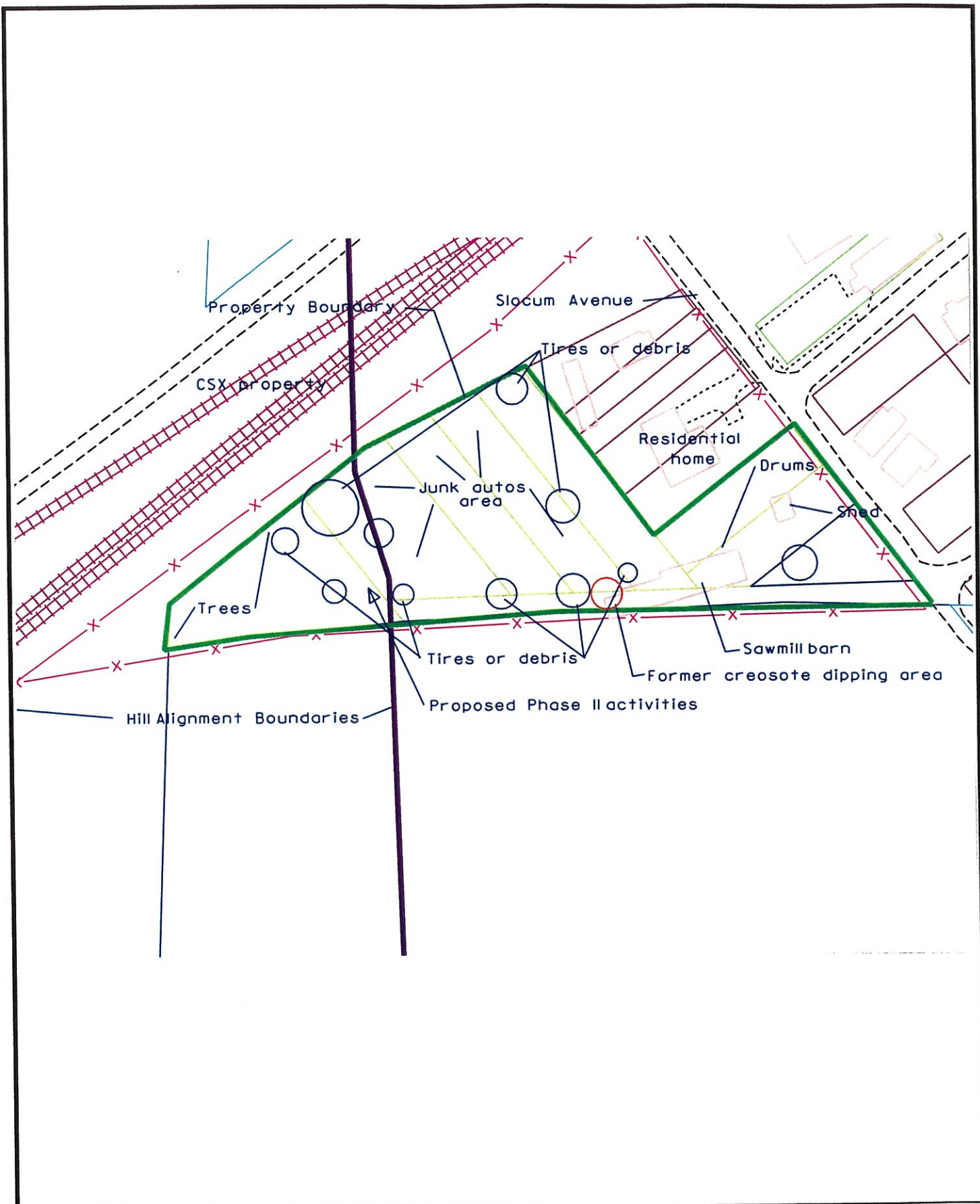
Site Plan
 Turner & Keller's Collision Property
 SCI-823-0.00, PID 19415
 Portsmouth Bypass Project
 SCIOTO COUNTY, OHIO

Project No.:
 P403020102



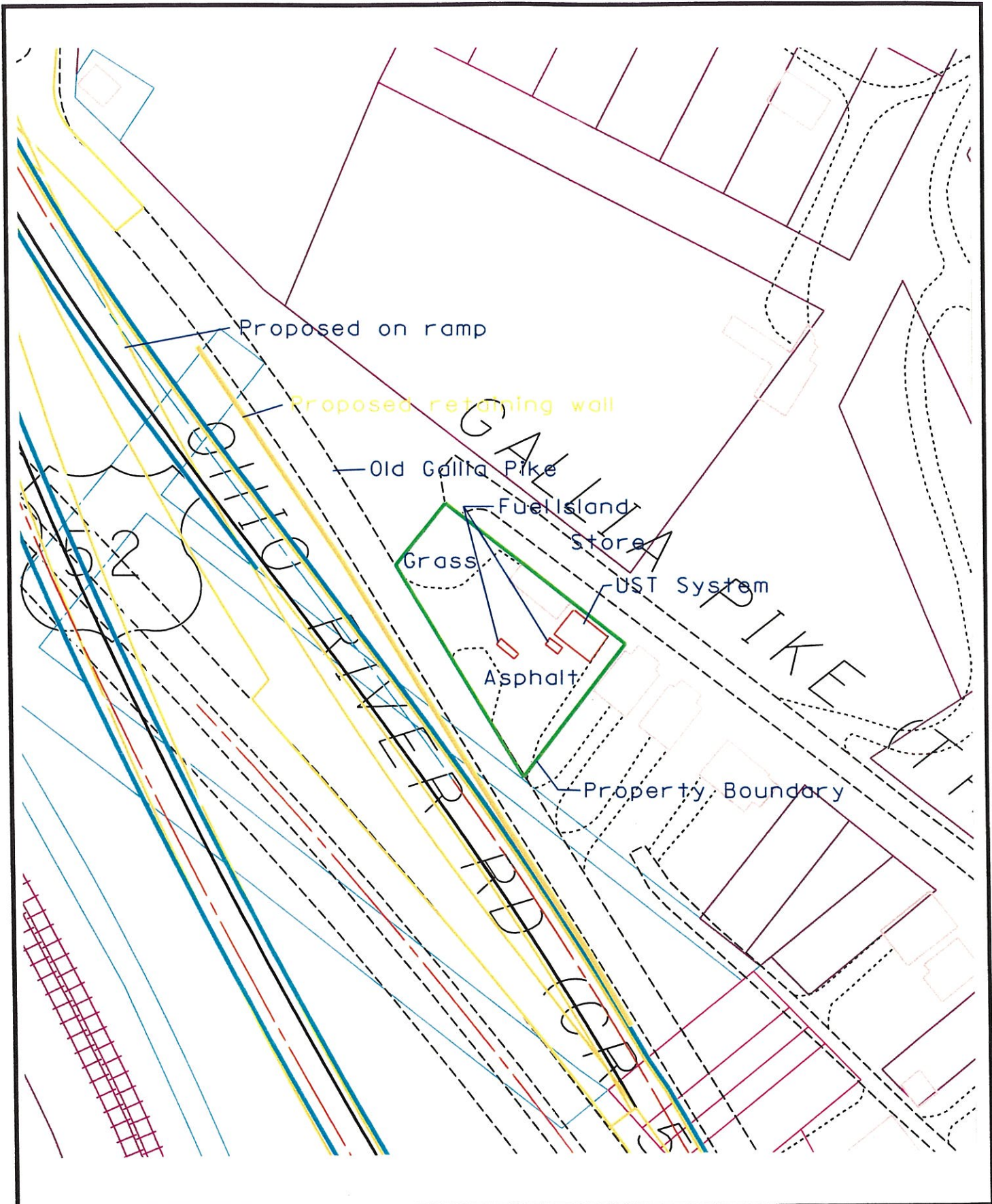
Site Plan
Trowbridge Property
 SCI-823-0.00, PID 19415
 Portsmouth Bypass Project
 SCIOTO COUNTY, OHIO

Project No.:
 P403020102



Site Plan
McGuire Property
 SCI-823-0.00, PID 19415
 Portsmouth Bypass Project
 SCIOTO COUNTY, OHIO

Project No.:
 P403020102



Site Plan
Buster's Bi-Lo Property
SCI-823-0.00, PID 19415
 Portsmouth Bypass Project
 SCIOTO COUNTY, OHIO

Project No.:
 P403020102

APPENDIX B -

ODOT, OES COORDINATION & CONCURRENCE LETTERS





see u
OCT 20 2002
lkh
10/30/02

OHIO DEPARTMENT OF TRANSPORTATION INTER-OFFICE COMMUNICATION

Office of Environmental Services

TO: John F. Hagen, District 9 Deputy Director
Attn: Kaye Humble
Juliet D. Dennis for
FROM: Timothy M. Hill, Administrator, Office of Environmental Services

SUBJECT: Environmental Site Assessment Screening

PROJECT: SCI-823-0.00

DATE: October 24, 2002

PID: 19415

This office has reviewed the Environmental Site Assessment (ESA) Screening for the above referenced project prepared by TranSystems Corporation.

Based on the information provided and the location of the feasible alternatives, we believe that the following sites warrant a Phase I ESA.

Parcel ID Number	Facility and/or Owner Name	Address
080401012	Kellers Collision	133 Morris Lane
080401002	Terry Turner	Lucasville Road
241722000	Scioto County Engineer's Office	56 State Route 728
241722000	Firststar Bank / Portsmouth Banking Co.	10 Merit Street
241601000	Lucasville Junior High School Bus Garage	393 Indian Drive
240824000	Harwood Gas Station	299 Indian Drive
160206000	Gampp's Marathon	State Route 140
160107000	Gerlach Feed Store	State Route 140
160125000	Earl's Cars and Parts	1984 State Route 140
16147100 & etc.	Buster's Bi-Lo	7151 Old Gallia Pike
170639000 & etc.	Diamond REO Truck Repair	7300 US 52
72477001	Scioto County Airport	SR 335

1
We also concur that no further environmental site assessment or special material handling is warranted for any other properties contained within the feasible alternatives.

If you have any questions or concerns, please contact Brian Metz, Environmental Specialist, at (614) 466-7925.

TMH:bsm

c: File w/attachment
Reading file

March 5, 2003

Ms. Kaye Humble
ODOT Project Manager
650 Eastern Avenue
Chillicothe, OH 45601

Re: Portsmouth Bypass Project Phase I Environmental Site Assessments

Dear Ms. Humble:

TranSystems Corporation completed an ESA Screening for the SCI-823 Project area in August of 2002 and recommended 12 sites for Phase I ESA. TranSystems subsequently reviewed these properties after more design information became available. Several of the properties that were recommended for Phase I ESAs are not within or adjoining the proposed ROW of the current bypass alignments. Five remaining sites are impacted by both options currently under consideration. Additionally, one site previously not recommended for Phase I ESA is within the proposed Alignment D that is currently being considered.

The sites that are currently **not** recommended for Phase I ESA include: Scioto County Engineer's Office; Gamp's Marathon; Gerlach Feed Store; Earl's Cars-Parts; Diamond REO Truck Repair; and the Scioto County Airport property.

The Pearl and Ora McGuire property is located within the Alignment D boundaries and was previously not recommended for Phase I ESA in the ESA Screening; however, this property should now be included in the Phase I ESA (see attached map). The addition of this property brings the total number of Phase I ESAs to six, as summarized below:

PARCEL ID	SITE NAME	ADDRESS
080401002	Terry Turner (Auto Repair)	39 Lucasville-Minford Road
080401012	Kellers Collision (Auto Repair)	133 Morris-Blue Run Lane
241601000	Lucasville Jr. High School (Bus Yard)	393 Indian Drive
240824000	Harwood's Gas Station	299 Indian Drive
161471000	Busters Bi-Lo	7151 Gallia Pike
160841000	Auto Salvage Yard (Pearl & Ora McGuire)	404 Highland Bend Road

Enclosed are maps showing the locations of the sites not recommended for advancement to Phase I ESA in relation to the alignments under consideration and revised checklist. TranSystems is requesting that ODOT concur with the proposed sites prior to initiating property owner notification to conduct the Phase I ESAs. We sincerely appreciate your cooperation and assistance so that the Phase I ESA can be completed at the earliest possible date.

Respectfully,



Susan Swartz
Project Manager

PORTSMOUTH BYPASS PROJECT
SCI-823-0.00 PID 19415
ENVIRONMENTAL SCREENING CHECKLIST TABLE 1

PIN	OWNER NAME	SITE NAME	PARCEL STREET	LAND USE	PAST LAND USE	ZONING	VISUAL OBSERVATIONS	DATABASE LISTING	ESA RECOMMENDED	COMMENTS
080401012	KELLER JOSEPH A + IDA K JIS	Kellers Collision	133 MORRIS LN BLUE RN	Comm-Automotive repair garage	Agricultural field	Low Density Residential	Two car garage and associated driveway were observed only, no drums are stored outside. No stressed vegetation was observed.	Not listed	YES	This site may utilize solvents and or strippers in the auto Restoration process, disposal is unknown (no database listing). This site is located on the northern portion of the alignment corridor boundary.
80401002	TURNER TERRY	Unknown Auto Repair	LUCASVILLE MINFORD	Residential- Auto repair facility (building with overhead bay doors)	Barn with outbuildings (farm)	Low Density Residential	Auto repair/paint shop with possible lubricants and solvents being used	Not listed	YES	This parcel is labeled as residential by the Scioto County Auditor. This site may utilize solvents and or paint strippers in the auto restoration process, disposal is unknown (no database listing). No drums were observed behind this facility. The block building appeared to be recently constructed. This site is located in the central portion of the alignment corridor boundary.
241722000	BD OF COUNTY COMMISSIONERS	Scioto County Engineers Office and outpost	58 SR 728	EXEMPT-County-Maintenance facility with refueling ASTs	Agricultural	Light Comm	Multiple large fuel ASTs with fuel island - insufficient secondary containment	2-LUST / 2-NFA	No	As of March 3, 2003, this property is not within the proposed ROW. See drawing
241758000	PORTSMOUTH BANKING CO	Firststar bank building and vacant lot	10 Merit Street/US 23 & 349	Bank building and associated parking area on the southern portion-grass covered land, concrete foundation and parking area on the northern portion	Building and lot configured like gas Station on the northern portion and agricultural field on the southern portion	Light Comm	Concrete building foundation and parking lot-no evidence of UST or fuel islands	Not listed	No	As of March 3, 2003, this property is not within the proposed ROW. See drawing Based on the historical photograph, the foundation observed during site reconnaissance and an interview with Jeff Baughman (owner of adjoining property), a gas station occupied the northern portion of this parcel during the 1960s. According to Jeff Baughman, the USTs are currently present.
241601000	BD OF EDUCATION VALLEY LSD	Lucasville Jr. High School	393 INDIAN DR	EXEMPT-Bd of Education-Bus parking area	Grass covered, undeveloped land	Low Density Residential	Buses parked in fenced area-Assume former or current refueling area, possible LUST site. The LUST Site is on the west side of the building call Doug Booth for exact location	LUST	YES	This parcel is located on the northern edge of the alignment corridor boundary. No ASTs or UST evidence was observed. File review will determine if USTs were close to the alignment corridor boundary.
240824000	HARWOOD ROSEMARY	Harwood's Gas Station Chabot #21	299 INDIAN DR	Comm-Gasoline Station	Grass covered, undeveloped land	Low Density Residential	3 USTs installed 1987, no UST area observed	BUSTR UST site	YES	This parcel is located in the central portion of the alignment corridor. Not a reported LUST site, however the USTs and associated leak detection system may be out of BUSTR compliance.
160206000	GAMPP EDNA TRUST	Gampp's Marathon	0 SR 140	Comm-Gasoline and Auto Service Station	Assume to be Gasoline and Auto Service Station in 1960 aerial photo	None	No monitoring wells or UST area observed	BUSTR UST site	No	As of March 3, 2003, this property is not within the proposed ROW. See drawing This parcel has historically been a gasoline and service Station. This parcel is located on the western portion of the alignment corridor boundary.
160207000	GAMPP HAROLD E	Garfach Farm and Feed Store	5T 140	Residential- Feed store and Service garage with 3-10k, 1-5k and 1-500 gallon ASTs located on the eastern portion of the site.	3 large buildings, gravel driveway and trees (appears in 1960 aerial as it does currently)	None	Inadequate secondary containment under ASTs. Small ASTs do not have secondary containment.	Not listed	No	As of March 3, 2003, this property is not within the proposed ROW. See drawing This parcel is used for bulk storage of fuel. The secondary containment appeared to be older than the ASTs situated inside. Crushed limestone covered the driveway leading to the AST area, therefore preventing a view of the ground surface. This site is within the alignment corridor boundary.
160125000	FULTZ GARY	Earl's Cars/Parts	1964 SR 140	Comm-Garage-auto salvage yard-Used auto parts-Service Garage	Mostly trees and agricultural field-1 large building by road with gravel parking area behind	None	No environmental concerns observed from State Route 140.	Not listed	YES	As of March 3, 2003, this property is not within the proposed ROW. See drawing The eastern portion of this parcel is located within the alignment corridor. The garage facility located on the western portion of this parcel appeared to be constructed in the 1950s and assumed to be the building in the 1960 aerial. This facility is a service garage. The 1969 aerial photo indicates roads and several hundred salvaged autos within the alignment corridor boundary.
161471000	HICKS DELMER + AGNES JIS	Busters BI-Lo	7151 GALLIA PIKE	Comm-Gas Station	The site appears to be residential with trees and grass on the 1960 aerial	None	Active gas Station-no monitoring wells observed	Not listed	YES	This facility was not listed on the database as a LUST or UST site. A Phase I ESA is recommended.
161064000	HICKS DELMER + AGNES JIS	Busters BI-Lo	7151 GALLIA PIKE	Comm-Gas Station	The site appears to be residential with trees and grass on the 1960 aerial	None	Active gas Station-no monitoring wells observed	Not listed	YES	This facility was not listed on the database as a LUST or UST site. A Phase I ESA is recommended.
161063000	HICKS DELMER + AGNES JIS	Busters BI-Lo	7151 GALLIA PIKE	Comm-Gas Station	The site appears to be residential with trees and grass on the 1960 aerial	None	Active gas Station-no monitoring wells observed	Not listed	YES	This facility was not listed on the database as a LUST or UST site. A Phase I ESA is recommended.
161065000	HICKS DELMER + AGNES JIS	Busters BI-Lo	7151 GALLIA PIKE	Comm-Auto Service Station	The site appears to be residential with trees and grass on the 1960 aerial	None	Active gas Station-no monitoring wells observed	Not listed	YES	This facility was not listed on the database as a LUST or UST site. A Phase I ESA is recommended.
170639000	RENHARDT REAL Estate INC	Diamond REO	7300 US 92	Comm-Storage yard for truck parts and parking for trucks with fuel island	Pastureland	None	Truck repair equipment-fuel dispenser island observed	BUSTR-LUST	No	As of March 3, 2003, this property is not within the proposed ROW. See drawing Any proposed alignment is expected to remain within the existing ROW, west of this parcel. However, the soils in the vicinity of the site have rapid permeability.
170666000	RENHARDT REAL Estate INC	Diamond REO	7515 OHIO RIVER RD	Comm-Truck repair Garage-Storage yard for truck parts and parking for trucks	Pastureland with a barn or building	None	Truck repair equipment-fuel dispenser island observed	BUSTR-LUST	No	As of March 3, 2003, this property is not within the proposed ROW. See drawing This parcel is located approximately 625' east of the alignment corridor boundary. This parcel is part of the Diamond RIO site.
174529000	RENHARDT REAL Estate INC	Diamond REO	0 OHIO RIVER RD	Comm-Vacant-Parking Area for trailers (one tanker trailer was observed)	Woods and pastureland	None	Gravel covered area-No environmental concerns observed	BUSTR-LUST	No	As of March 3, 2003, this property is not within the proposed ROW. See drawing This parcel adjoins the alignment corridor boundary. Any proposed alignment is expected to remain within the existing ROW, west of this parcel. However, the soils in the vicinity of the site have rapid permeability.
72477001	BD OF COUNTY COMMISSIONERS	Scioto County Airport	0 SR 335	Comm-Airport with hangars, refueling facilities, woods and grass covered areas are located on the northern portion	Same as current use-woods and cultivated fields on NW portion and road leading to baseball field	None	Jet fuel AST located on the western portion and BP refueling facility located on the southern portion next to the terminal	BUSTR-NFA	No	As of March 3, 2003, this property is not within the proposed ROW. See drawing
160841000	MCGUIRE ORA + PEARL	Unknown Salvage Yard	0 SLOCUM AVE	Comm-Vacant-Auto wrecking yard	pastureland with woods	None	Automobile storage (assumed salvaged)	Not listed	YES	Vehicles were stored across this parcel-see photo. This site is within Alignment D
160840000	MCGUIRE ORA + PEARL	Unknown Salvage Yard	0 SLOCUM AVE	Comm-Vacant-Auto wrecking yard	pastureland with woods	None	Automobile storage (assumed salvaged)	Not listed	YES	Vehicles were stored across this parcel-see photo. This site is within Alignment D
160845000	MCGUIRE ORA + PEARL	Unknown Salvage Yard	0 SLOCUM AVE	Comm-Vacant-wood storage (pallets boards)	pastureland with woods	None	Grass covered area leading to storage yard	Not listed	YES	A pile of shipping pallets were observed. This site is within Alignment D
160838000	MCGUIRE ORA + PEARL	Unknown Salvage Yard	0 SLOCUM AVE	Comm-Vacant-Auto wrecking yard	pastureland with woods	None	Automobile storage (assumed disabled)	Not listed	YES	Vehicles were stored across this parcel-see photo. This site is within Alignment D
160846000	MCGUIRE ORA + PEARL	Unknown Salvage Yard	0 SLOCUM AVE	Comm-Vacant-shed storage	pastureland with woods	None	Grass with a small shed. No environmental concerns were observed on this parcel	Not listed	YES	This site is within Alignment D
160837000	MCGUIRE ORA + PEARL	Unknown Salvage Yard	0 SLOCUM AVE	Comm-Vacant-woods	pastureland with woods	None	No environmental concerns observed	Not listed	YES	This site is within Alignment D
160847000	MCGUIRE ORA + PEARL	Unknown Salvage Yard	0 SLOCUM AVE	Comm-Other Structure-barn with pallet storage	pastureland with woods	None	A barn with wood pallets stacked approximately 4' high.	Not listed	YES	An older barn with wood shipping pallets were the only observations made on this parcel. This site is within Alignment D

NOTES: Land Use is derived from the Scioto County Auditor Land Use Codes and from the site visit
No USTs, ASTs, Drums, Landfills, Ponds/Lagoons, Surface Staining, Sheens, Damaged Vegetation, Odors or Other Environmental Concerns were observed unless noted in the Visual Observations Column
Database was queried on August 22, 2001 - No NPL or OEPA MSL sites were listed in the vicinity of the alignment corridor
Right-of-Way takes are assumed to be whole parcel takes in most cases and Minor Takes in some cases

557.000

OLD STUDY BOUNDARY

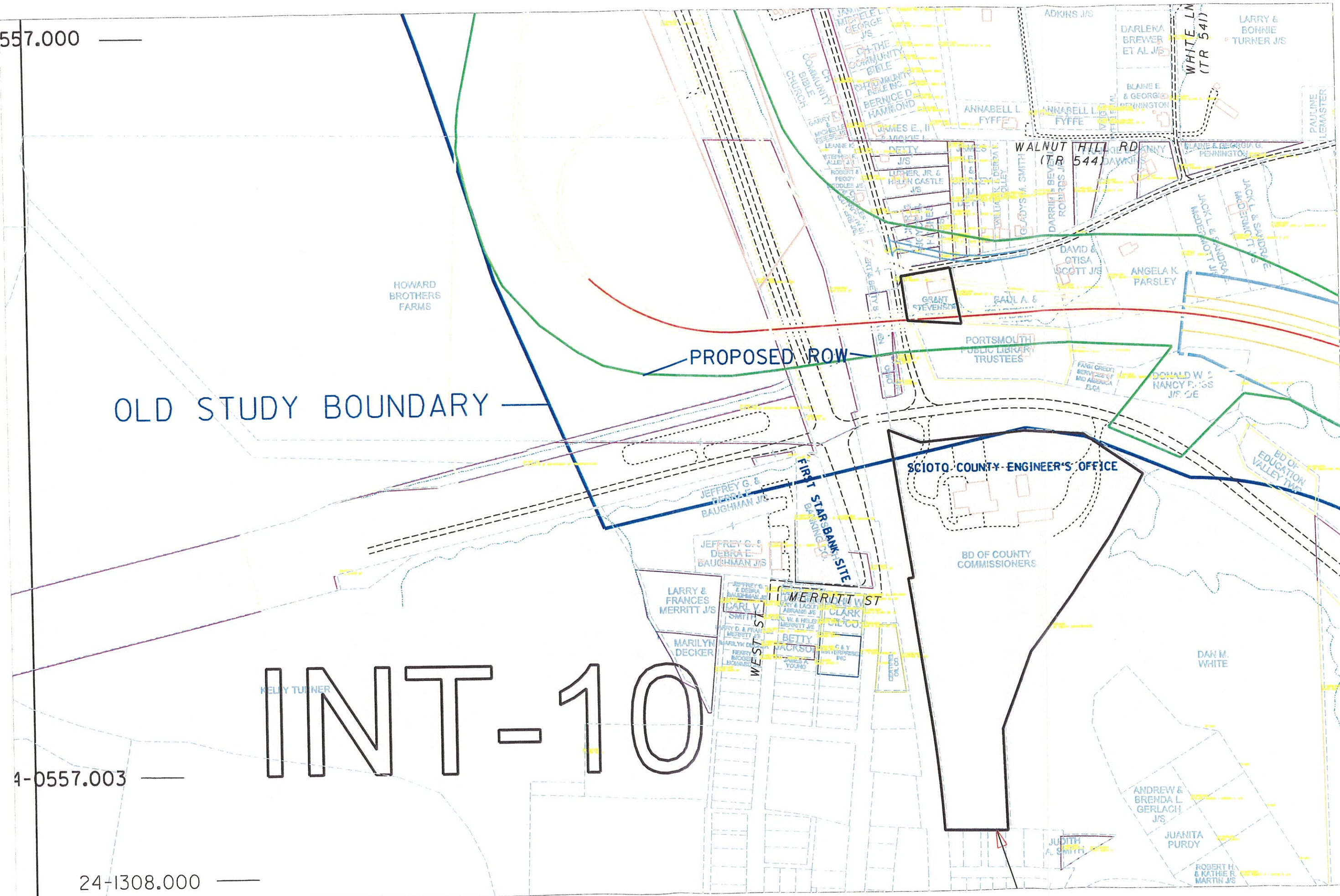
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SCIOTO COUNTY ENGINEER'S OFFICE

INT-10

4-0557.003

24-1308.000



SEGMENT 6

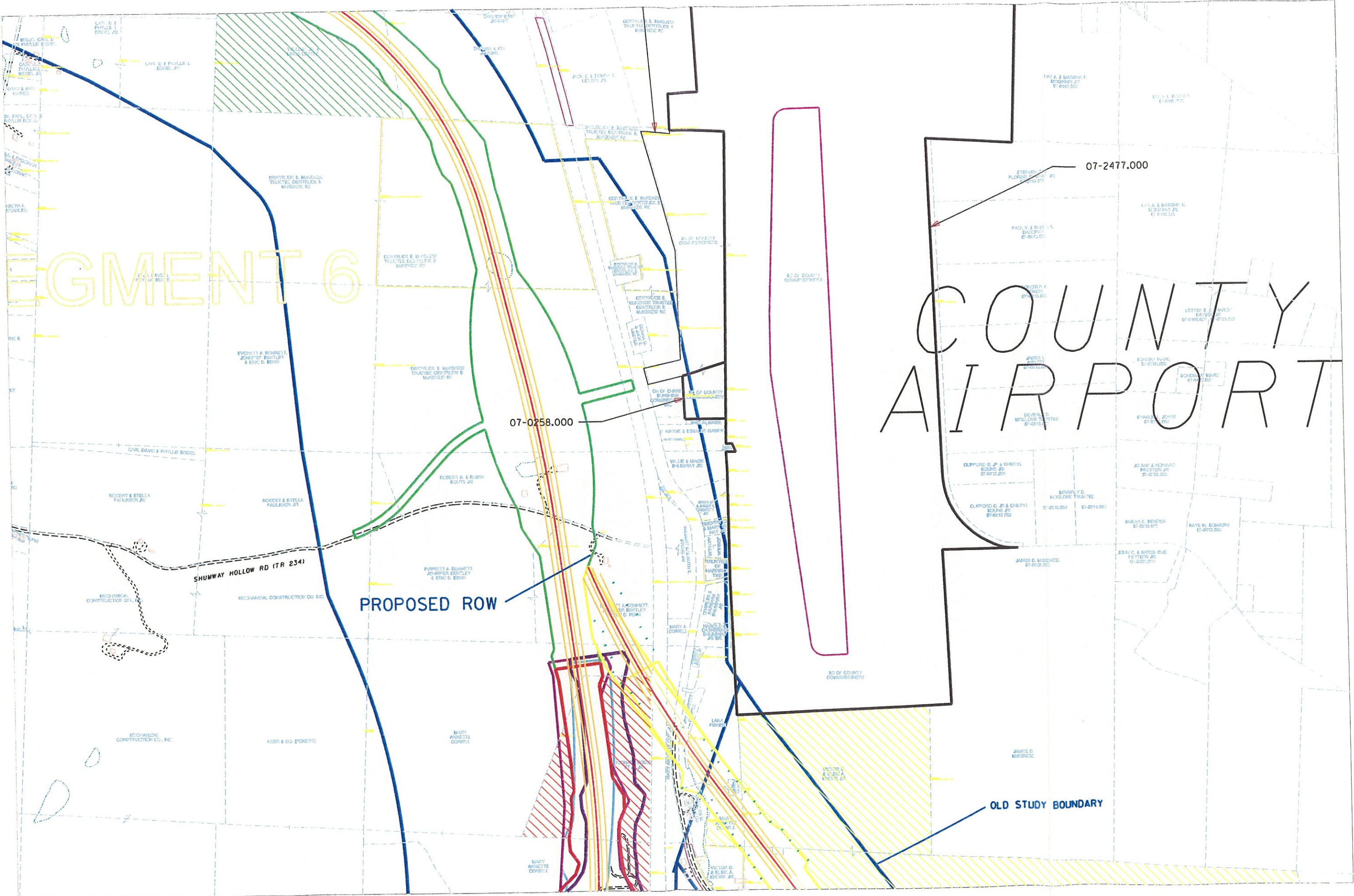
COUNTY AIRPORT

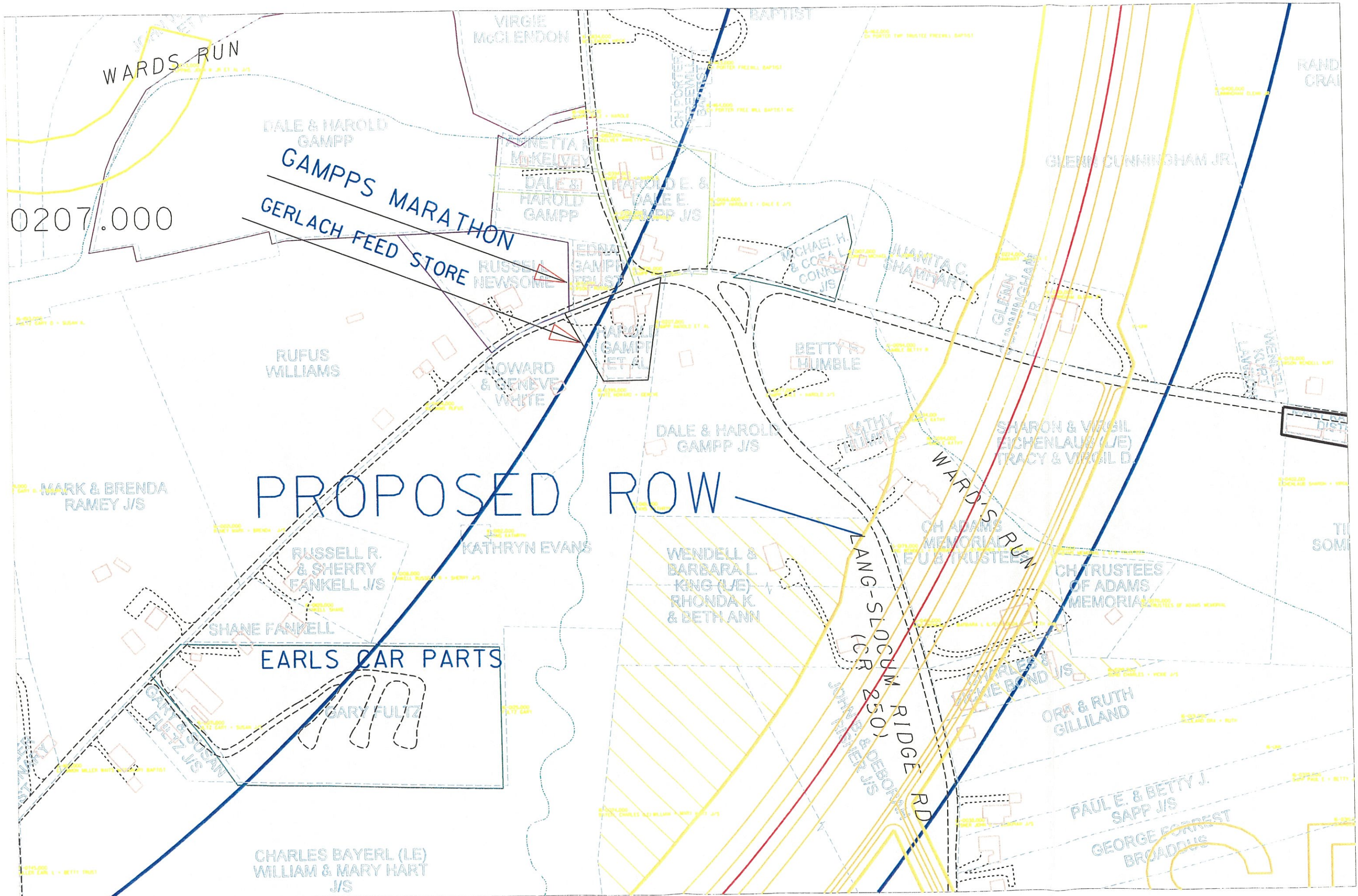
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PROPOSED ROW

OLD STUDY BOUNDARY

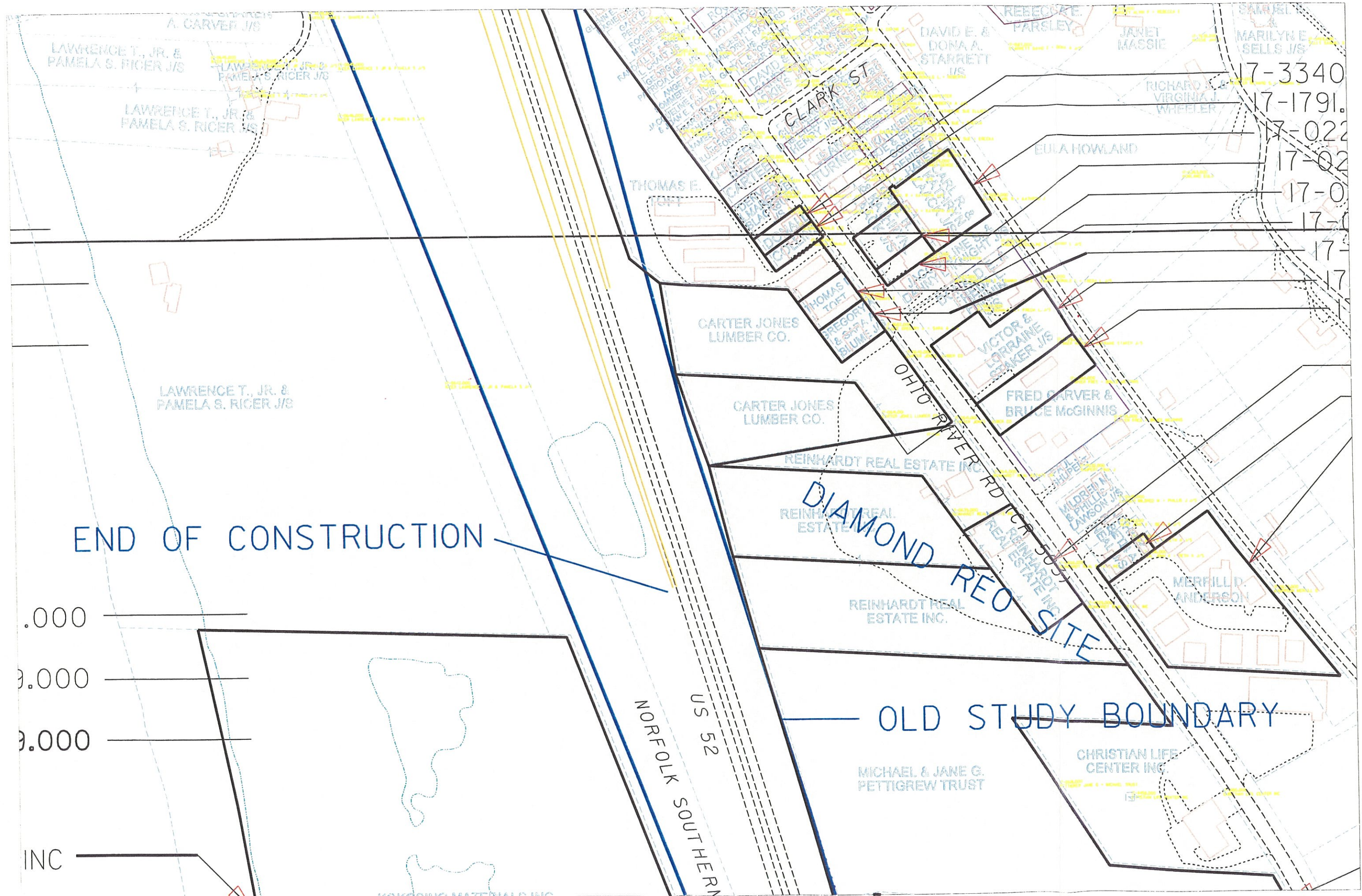


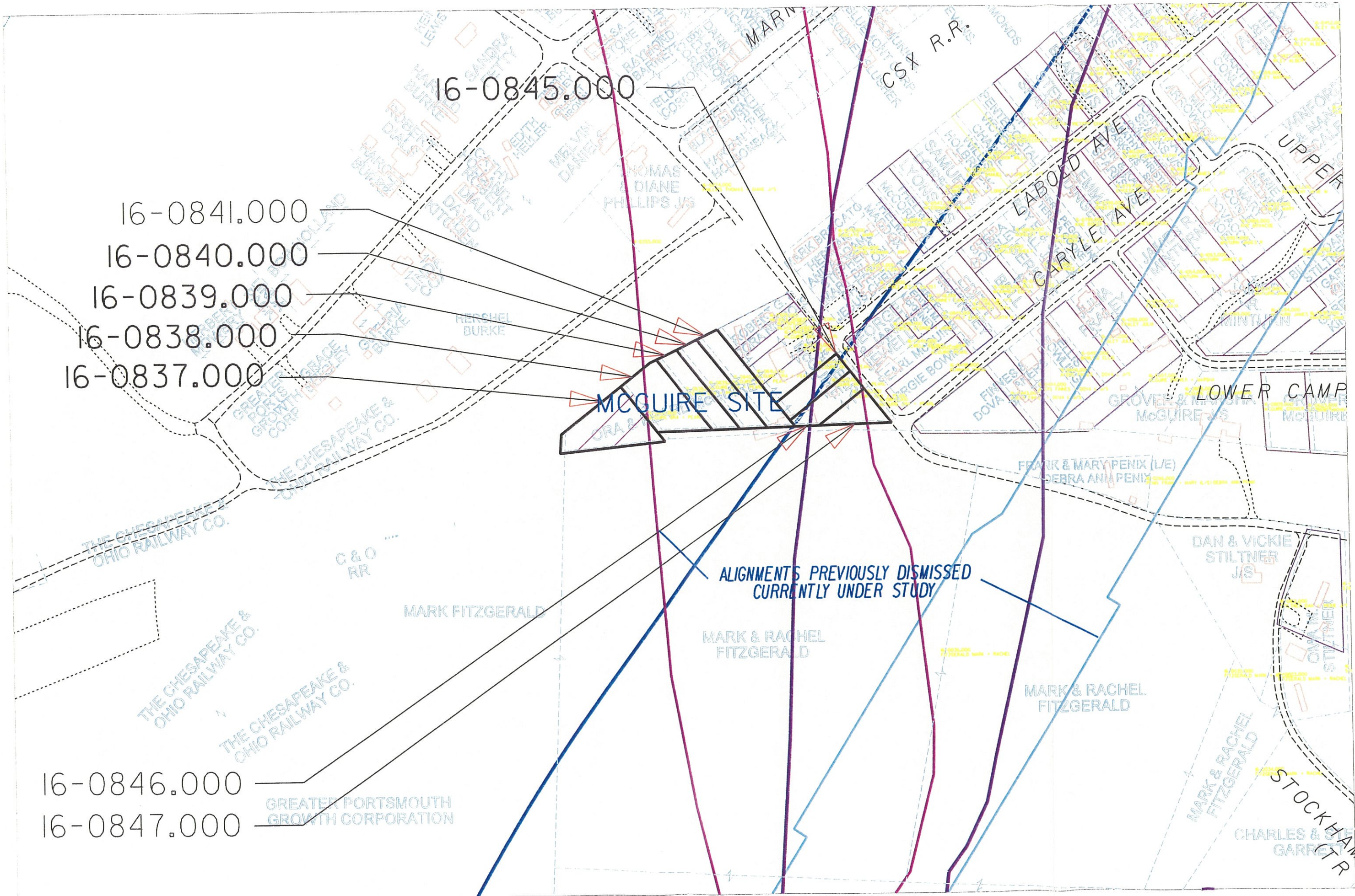


0207.000

PROPOSED ROW

EARLS CAR PARTS





TransSystems



OHIO DEPARTMENT OF TRANSPORTATION INTER-OFFICE COMMUNICATION

Office of Environmental Services

TO: John F. Hagen, District 9 Deputy Director
Attn: Kaye Humble

DATE: March 17, 2003

FROM: *Julius D. Desjardis for*
Timothy M. Hill, Administrator, Office of Environmental Services

SUBJECT: Environmental Site Assessment Screening Reevaluation

PROJECT: SCI-823-0.00

PID: 19415

This office has reviewed the additional information related to the Environmental Site Assessment (ESA) Screening for the above referenced project prepared by TranSystems Corporation.

Based on the information provided and the location of the current bypass alignments, we concur with the consultant that only the following sites warrant a Phase I ESA.

Parcel ID Number	Facility and/or Owner Name	Address
080401012	Kellers Collision	133 Morris Lane
080401002	Terry Turner	Lucasville Road
241601000	Lucasville Junior High School Bus Garage	393 Indian Drive
240824000	Harwood Gas Station	299 Indian Drive
16147100 & etc.	Buster's Bi-Lo	7151 Old Gallia Pike
160841000	Auto Salvage Yard	404 Highland Bend Road

We also concur that no further environmental site assessment or special material handling is warranted for any other properties contained within the feasible alternatives.

If you have any questions or concerns, please contact Brian Metz, Environmental Specialist, at (614) 466-7925.

TMH:bsm

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Reading file
Noel Alcala

CO-Richard Scott Stewart

From: Brian Metz [Brian.Metz@dot.state.oh.us]
Sent: Friday, May 16, 2003 1:47 PM
To: CO-Richard Scott Stewart
Subject: Re: SCI-823-0.00 Portsmouth Bypass Project PID 19415

Mr. Stewart,
Due to the full parcel take of this property and historic commercial print shop usage of this property , we recommend that a Phase I ESA be performed for this print shop.
Mr. Metz

<RSSStewart@transystems.com>

To: <Brian.Metz@dot.state.oh.us>

05/05/03 05:32 PM

cc:

Subject: SCI-823-0.00 Portsmouth Bypass Project PID 19415

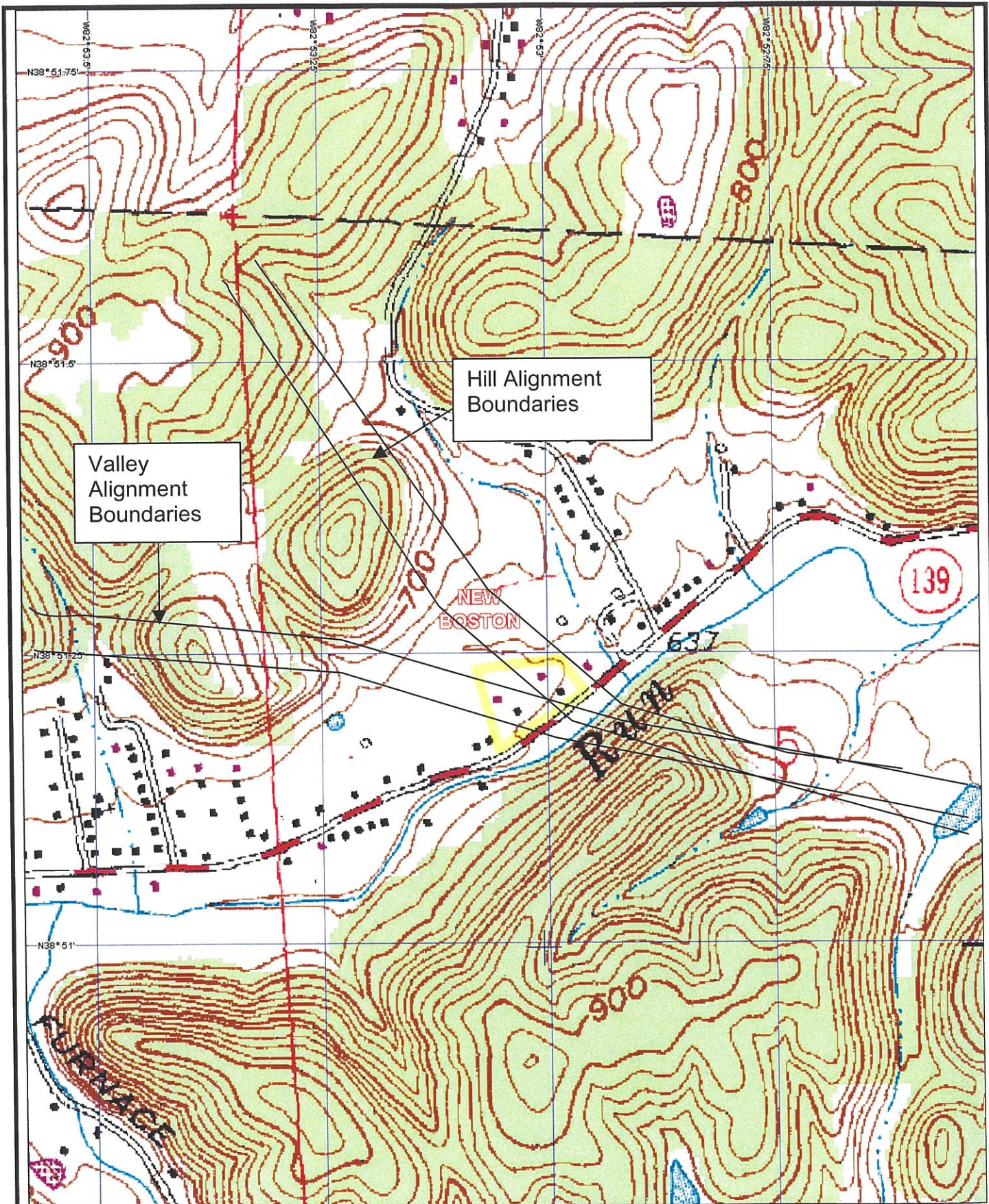
Mr. Metz,

During a conversation with a property owner that is located within the proposed alignments (both the hill and valley alignments) they informed me of a print shop they operated behind the home. The property is coded residential on the Scioto County Auditors site. This property will be a whole take if the valley option is chosen or partial take if the hill option is chosen. Does OES want me to include this property in the Phase I ESA currently in progress?

Thanks
Scott Stewart
Environmental Scientist
TranSystems Corporation
614-336-8480

**APPENDIX C -
TOPOGRAPHIC MAP**



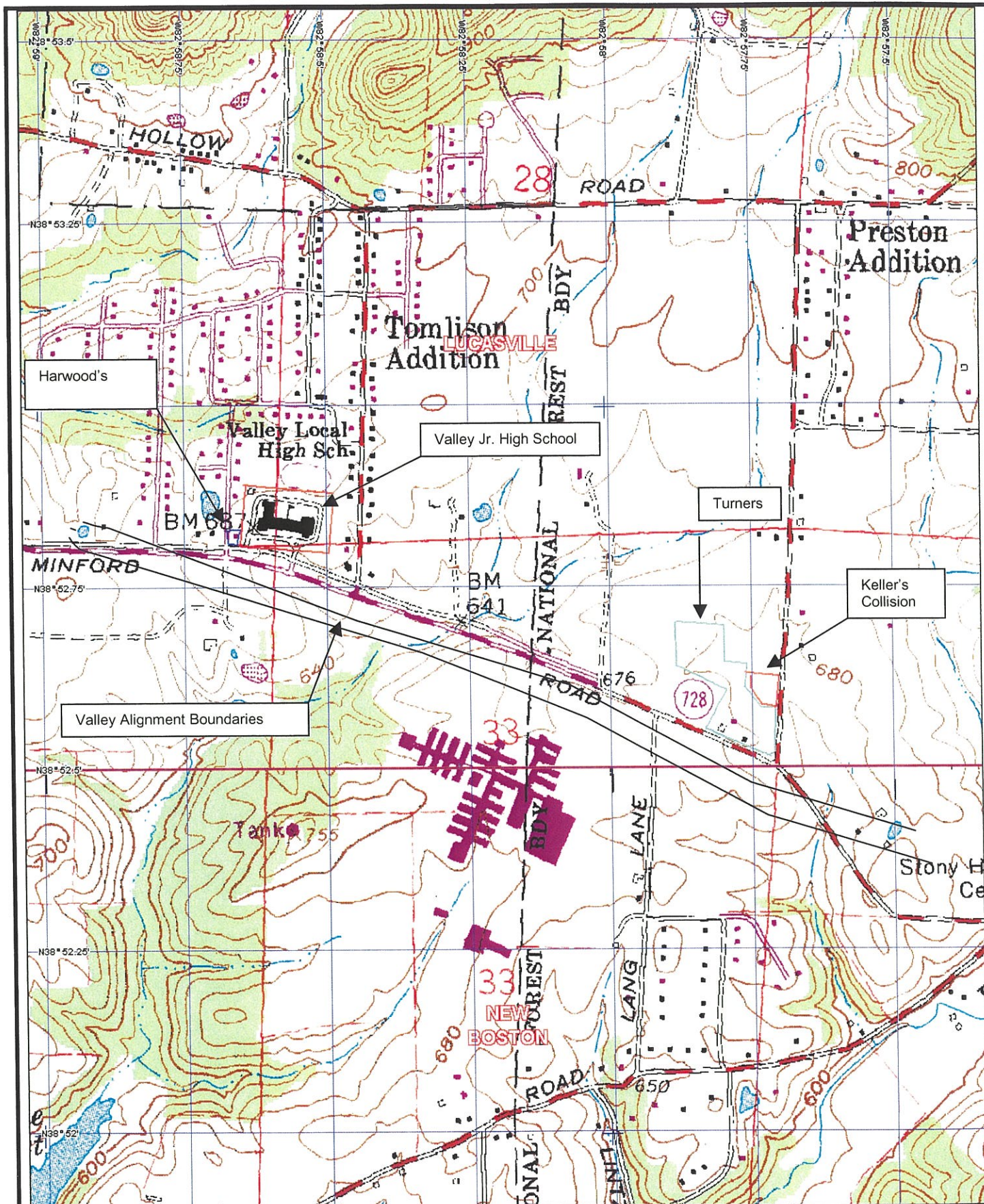


3-D TopoQuads Copyright © 1999 DeLorme Yarmouth, ME 04096 Source Data: USGS 198 ft Scale: 1:3,000 Detail: 14-6 Datum: NAD27



Trowbridge Property Topographic Map
 SCI-823-0.00, PID 19415
 Portsmouth Bypass Project
 SCIOTO COUNTY, OHIO

Project No.:
 P403020102

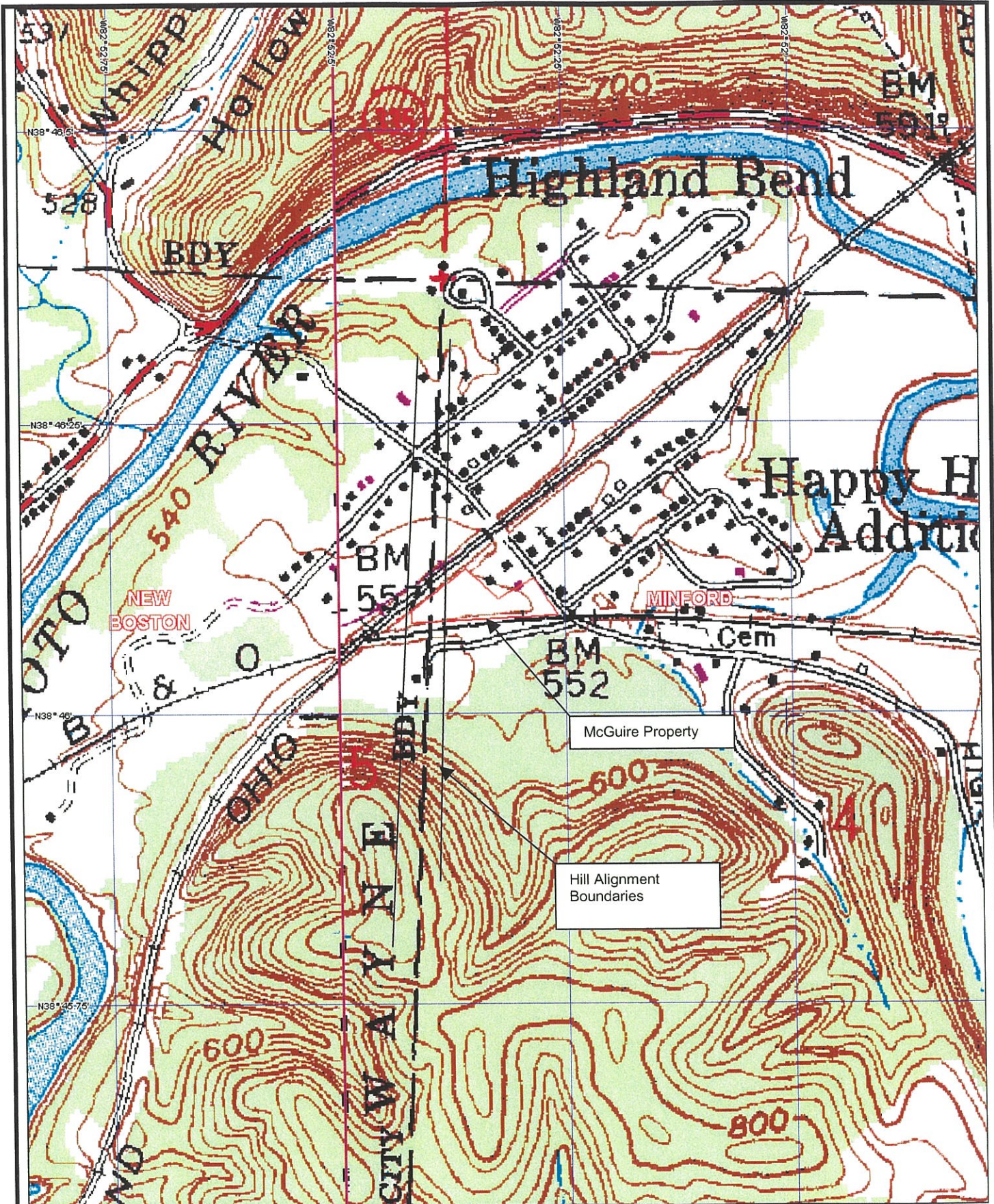


3-D TopoQuads Copyright © 1999 DeLorme Yarmouth, ME 04096 Source Data: USGS 346 ft Scale: 1: 12,900 Detail: 14:0 Datum: NAD27



Lucasville Area Topographic Map
 SCI-823-0.00, PID 19415
 Portsmouth Bypass Project
 SCIOTO COUNTY, OHIO

Project No.:
 P403020102

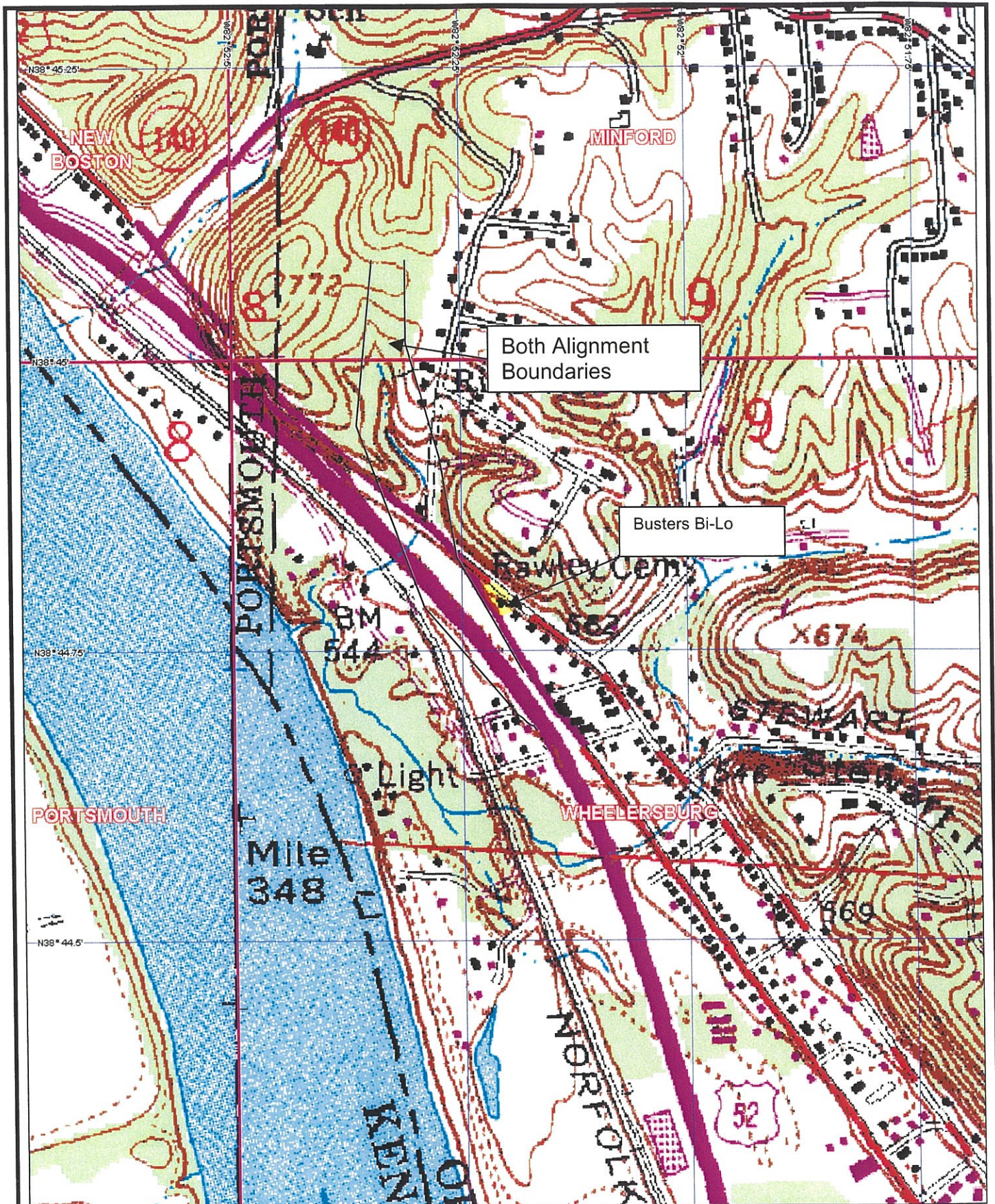


3-D TopoQuads Copyright © 1999 DeLorme Yarmouth, ME 04096 Source Data: USGS 198 ft Scale: 1 : 3,000 Detail: 14-6 Datum: NAD27



McGuire Property Topographic Map
 SCI-823-0.00, PID 19415
 Portsmouth Bypass Project
 SCIOTO COUNTY, OHIO

Project No.:
 P403020102



3-D TopoQuads Copyright © 1999 DeLorme Yarmouth, ME 04096 Source Data: USGS 198 ft Scale: 1:8,000 Detail: 14-6 Datum: NAD27



Buster's Bi-Lo Topographic Map
 SCI-823-0.00, PID 19415
 Portsmouth Bypass Project
 SCIOTO COUNTY, OHIO

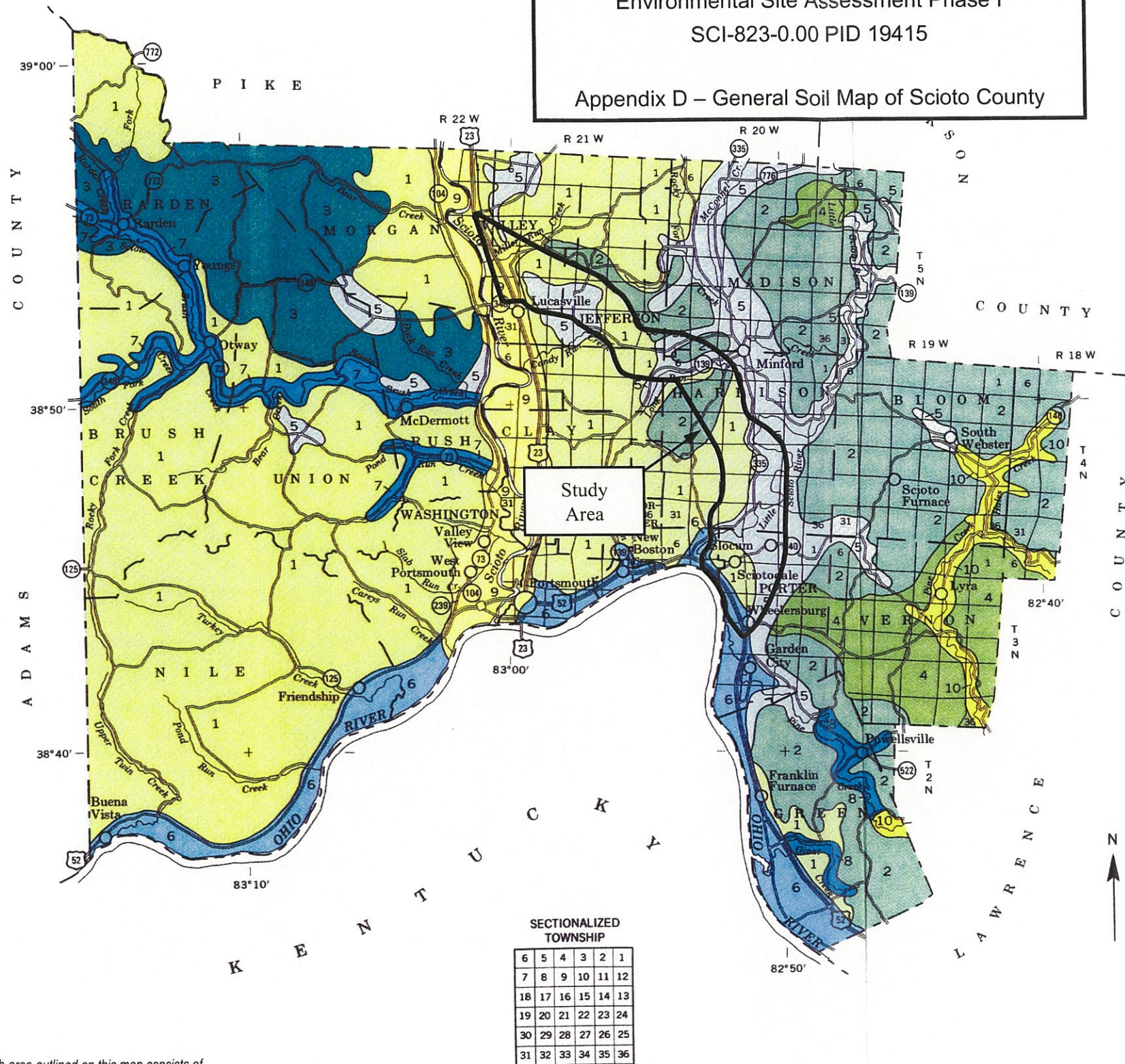
Project No.:
 P403020102

**APPENDIX D -
SOILS MAP**



Environmental Site Assessment Phase I
SCI-823-0.00 PID 19415

Appendix D – General Soil Map of Scioto County



SECTIONALIZED TOWNSHIP

6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

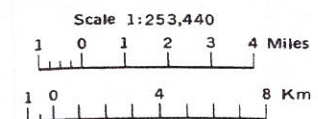
LEGEND

- DEEP AND MODERATELY DEEP SOILS ON UPLANDS
- 1 Shelocta-Brownsville: Deep, steep and very steep, well drained soils formed in colluvium and residuum derived from siltstone and sandstone; on uplands
 - 2 Shelocta-Wharton-Latham: Deep and moderately deep, strongly sloping to steep, well drained and moderately well drained soils formed in colluvium and residuum derived from sandstone, siltstone, and shale; on uplands
 - 3 Latham-Wharton-Shelocta: Moderately deep and deep, strongly sloping to steep, moderately well drained and well drained soils formed in colluvium and residuum derived from shale, siltstone, and sandstone; on uplands
 - 4 Shelocta-Steinsburg-Latham: Deep and moderately deep, hilly to very steep, well drained and moderately well drained soils formed in colluvium and residuum derived from siltstone, sandstone, and shale; on uplands
- DEEP SOILS IN PREGLACIAL VALLEYS AND ON FLOOD PLAINS, TERRACES, AND FANS
- 5 Omulga-Monongahela-Haymond: Deep, nearly level to strongly sloping, moderately well drained and well drained soils formed in alluvium, colluvium, loess, and lacustrine sediments; in preglacial valleys and on flood plains
 - 6 Wienbach-Wheeling-Elkinsville: Deep, nearly level to steep, somewhat poorly drained and well drained soils formed in alluvium; on terraces
 - 7 Nolin-Shelocta-Omulga: Deep, nearly level to strongly sloping, well drained and moderately well drained soils formed in alluvium, colluvium, residuum, loess, and lacustrine sediments; on flood plains, on fans, and in preglacial valleys
 - 8 Tioga-Sardinia-Fitchville: Deep, nearly level and gently sloping, well drained to somewhat poorly drained soils formed in alluvium; on flood plains and terraces
- DEEP SOILS ON FLOOD PLAINS
- 9 Nolin-Genesee: Deep, nearly level, well drained soils formed in alluvium; on flood plains
 - 10 Stendal-Cuba-Tioga: Deep, nearly level, somewhat poorly drained and well drained soils formed in alluvium; on flood plains

COMPILED 1986

U.S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
FOREST SERVICE
OHIO DEPARTMENT OF NATURAL RESOURCES
DIVISION OF SOIL AND WATER CONSERVATION
OHIO AGRICULTURAL RESEARCH AND DEVELOPMENT CENTER

GENERAL SOIL MAP
SCIOTO COUNTY, OHIO



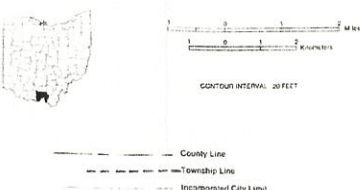
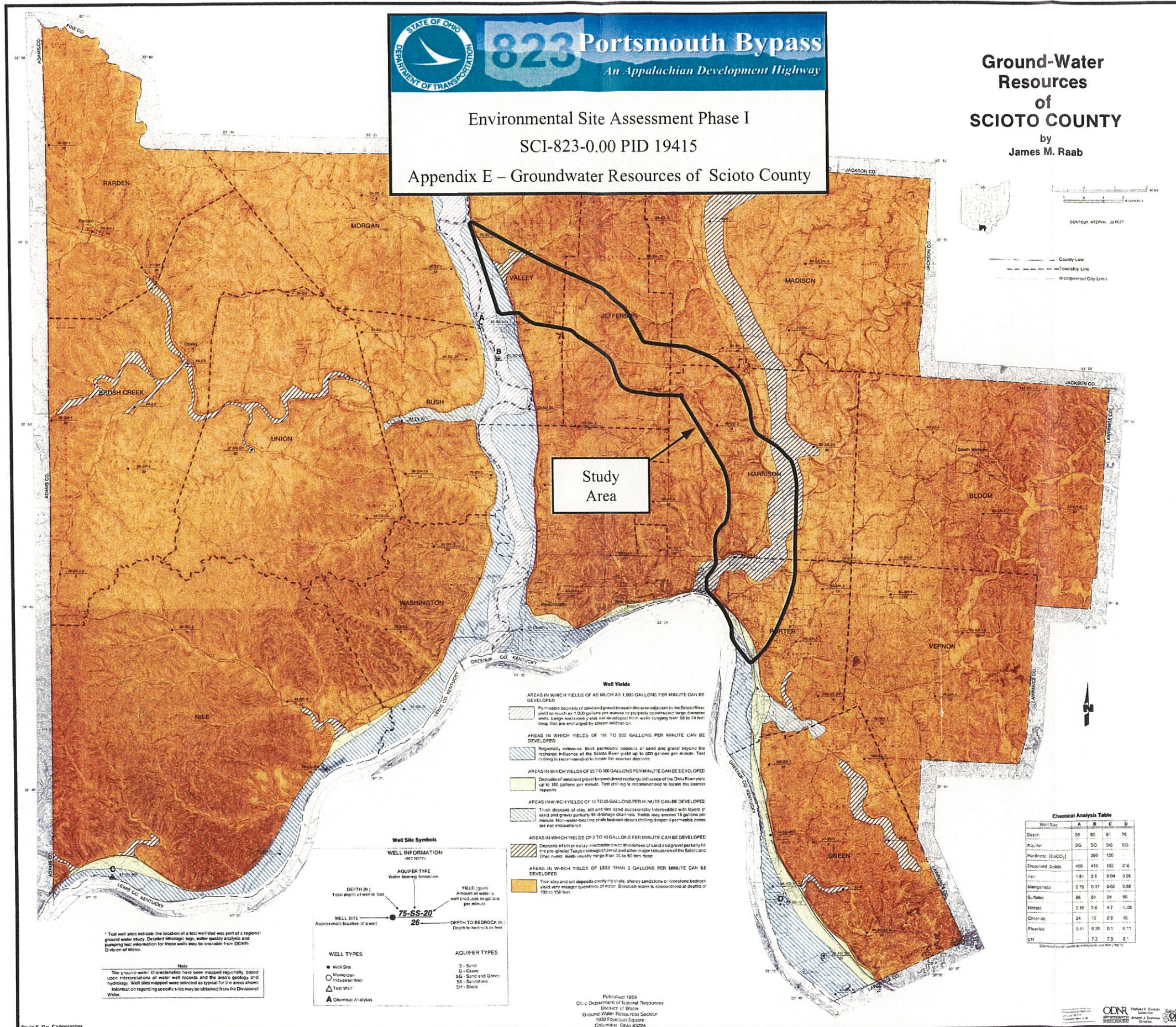
Each area outlined on this map consists of more than one kind of soil. This map is thus meant for general planning rather than a basis for decisions on the use of specific tracts.

**APPENDIX E -
GROUNDWATER RESOURCES MAP**



Environmental Site Assessment Phase I
SCI-823-0.00 PID 19415
Appendix E – Groundwater Resources of Scioto County

Ground-Water Resources
of
SCIOTO COUNTY
by
James M. Raab



Study Area

- Well Yields**
- AREAS IN WHICH YIELDS OF AS MUCH AS 1,000 GALLONS PER MINUTE CAN BE DEVELOPED**
Permeable deposits of sand and gravel beneath the area adjacent to the Scioto River yield as much as 1,000 gallons per minute to properly constructed large diameter wells. Large scattered gravel are developed from wells ranging from 50 to 75 feet deep that are recharged by stream infiltration.
 - AREAS IN WHICH YIELDS OF 100 TO 500 GALLONS PER MINUTE CAN BE DEVELOPED**
Regionally extensive, thick permeable deposits of sand and gravel beyond the recharge influence of the Scioto River yield up to 500 gallons per minute. Test drilling is recommended to locate the coarsest deposits.
 - AREAS IN WHICH YIELDS OF 25 TO 100 GALLONS PER MINUTE CAN BE DEVELOPED**
Deposits of sand and gravel beyond direct recharge influence of the Ohio River yield up to 100 gallons per minute. Test drilling is recommended to locate the coarsest deposits.
 - AREAS IN WHICH YIELDS OF 10 TO 25 GALLONS PER MINUTE CAN BE DEVELOPED**
Thin deposits of clay, silt and fine sand occasionally interbedded with layers of sand and gravel partially fill drainage channels. Yields may exceed 15 gallons per minute. Non-water-bearing shale bedrock orders drilling deeper if permeable zones are not encountered.
 - AREAS IN WHICH YIELDS OF 3 TO 10 GALLONS PER MINUTE CAN BE DEVELOPED**
Deposits of silt and clay interbedded with lenses of sand and gravel partially fill the pre-glacial Teays drainage channel and other major tributaries of the Scioto and Ohio rivers. Wells usually range from 20 to 80 feet deep.
 - AREAS IN WHICH YIELDS OF LESS THAN 1 GALLON PER MINUTE CAN BE DEVELOPED**
True clay and silt deposits overlying shale, shaly sandstone or limestone bedrock yield very meager quantities of water. Freshwater is encountered at depths of 100 to 150 feet.

Well Site Symbols

WELL INFORMATION
(SEE NOTE)

AQUIFER TYPE
Water bearing formation

DEPTH (ft.)
Total depth of well in feet

WELL SITE
Approximate location of a well

YIELD (gpm)
Amount of water a well produces in gal. per minute

DEPTH TO BEDROCK (ft.)
Depth to bedrock in feet

WELL TYPES

- Well Site
- Municipal Well
- Industrial Well
- Test Well
- Chemical Analysis

AQUIFER TYPES

- S - Sand
- G - Gravel
- SG - Sand and Gravel
- SS - Sandstone
- SH - Shale

Chemical Analysis Table

Well Site	A	B	C	D
Depth	59	60	81	76
Aquifer	SG	SG	SG	SG
Hardness (CaCO ₃)	300	130		
Dissolved Solids	456	410	152	216
Iron	1.81	2.5	0.04	0.26
Manganese	0.79	0.17	0.02	0.28
Sulfate	96	51	24	80
Nitrate	0.89	2.6	4.7	<.05
Chloride	24	12	2.9	10
Fluoride	0.11	0.05	0.1	0.11
pH	7.3	7.5	8.1	

Chemical analysis under atmospheric pressure and 140°F.

Note
The ground-water characteristics have been mapped regionally, based upon interpretations of water well records and the area's geology and hydrology. Well sites mapped were selected as typical for the areas shown. Information regarding specific sites may be obtained from the Division of Water.

**APPENDIX F -
BUSTR FILES**





Ohio Department of Commerce

Division of State Fire Marshal
Bureau of Underground Storage Tank Regulations
P.O. Box 687
Reynoldsburg, OH 43068-9009
(614) 752-7938 FAX (614) 752-7942

George V. Volnovich
Governor

Donna Owens
Director

May 21, 1997

JEFF HAMILTON
VALLEY LOCAL SCHOOL DISTRICT
PO BOX 888
LUCASVILLE OH 45648

SITE: VALLEY LOCAL SCHOOL DISTRICT
STATE ROUTE 728
LUCASVILLE OH
SCIOTO COUNTY
INCIDENT #7360438-00

RE: NO FURTHER ACTION STATUS REGARDING CLOSURE REQUIREMENTS

Dear Mr Hamilton

The Bureau of Underground Storage Tank Regulations (BUSTR) has reviewed all information submitted for this incident number. Based on this information, BUSTR requires no further action involving closure under Ohio Administrative Code 1301.7-9-12.

If you feel that you are entitled to reimbursement you should contact the Petroleum Underground Storage Tank Release Compensation Board (PUSTRCB) at P O Box 163188, Columbus, Ohio 43216, (614) 752-8963 or (800) 224-4659. PUSTRCB administers Ohio's assurance fund and is a separate entity apart from BUSTR.

Thank you for your cooperation. If you have any questions, please contact our office at (614) 752-7938.

Sincerely,

Kelly J. Giff
Corrective Action Supervisor

KJG:jas

xc Site File

**Valley Local School District
PO Box 888
Lucasville, Ohio 45648**

**Underground Storage Tank Closure Report
Incident No. 7360438
Facility No. 739115**

July 1996

**Report Prepared by:
Waste-Tron, Inc.
8520 Ohio River Road, Suite E
Wheelersburg, Ohio 45694
800-352-6144**



SECTION I - UST OWNER, OPERATOR, AND FACILITY DATA

UST Owner, Operator, Facility Location, Facility:

Valley Local School District

P.O. Box 888

Lucasville, Ohio 45648

(614)-259-3115

Contact: Jeff Hamilton

SECTION II - UST SYSTEM DATA

This facility contained one (1) 1,000 gallon steel gasoline tank which was located under concrete on the west side of the school building. The system was installed in the early 1960's, and taken out of service in 1996. This UST system was owned and operated by Valley Local School District to fuel their school buses. The tanks, lines, and dispensers were all removed and properly disposed on June 24, 1996.

SECTION III - WASTE DISPOSAL DATA

The tank and product lines were taken to Enviro-Tank Clean in Belpre, Ohio for proper cleaning and disposal. Tracking forms and a disposal certificate for the tank and lines are contained in Appendix A.

SECTION IV - SAMPLING DATA

Once the initial excavation was completed on June 24, 1996, soil samples were collected from the excavation and under the dispenser. Petroleum impacted soils were stockpiled on site, and appropriate samples were collected there also. All samples were taken with a clean stainless steel trowel and split into two portions. One portion was transferred to a plastic bag, and the other portion was placed in a 9 oz glass jar with a Teflon lined cap, and placed on ice in a cooler for delivery to the laboratory. The samples in the bags were allowed to come to room temperature, and the headspace was field tested for petroleum hydrocarbons using an H-Nu



SECTION IV - SAMPLING DATA (CONTINUED)

meter equipped with an 11.6 mev PID detector. The meter was calibrated using and isobutylene gas standard prior to sampling. The field screening and sample selection are summarized in Tables I and II in Appendix B, and the laboratory analyses are summarized in Table III in Appendix B. A sampling location map is contained in Appendix C that shows the sample locations and depths. All samples were collected by Mr. Chris Madden, a field technician with Waste-Tron, Inc. Chain-of-custodies and actual laboratory analysis are contained in Appendix D.

SECTION V - LABORATORY DATA

Information such as the laboratory name, address, phone number, sampling, reception, and analysis dates, sample matrix, analytical method, detection limits, and instrument calibrations are contained on the actual laboratory reports and chain-of-custodies located in Appendix D.

SECTION VI - MISCELLANEOUS DATA

The tank and lines were pitted and corroded, but had no visible holes present. There was a slight petroleum odor (gasoline), and some soil staining was visible in the excavation and dispenser area. The tanks were surrounded by a sand fill material, and the native soil was primarily a silty clay. A site sampling location map located in Appendix C accurately depicts the site boundaries, street locations, UST system, sampling locations and depths, lengths of UST and product line, and excavation limits. A copy of the closure notice and permit is contained in Appendix E that has the certified inspector name and certificate number, as well as the local fire department name, address, zip code, county, and phone. The SFSS written report is contained in Appendix F.

SECTION VII - STOCKPILE HANDLING AND DISPOSITION

Approximately 28 cubic yards of soil was excavated and temporarily stockpiled on-site. When the pile was sampled on June 24 and found to have high field readings it was decided to stockpile the soil on site. The stockpile was properly covered with plastic and surrounded by straw. The additional analysis that was conducted at the laboratory is summarized in Appendix D and shows this material to be below SFSS Category I levels of contaminants.



SECTION VIII- CONCLUSIONS AND RECOMMENDATIONS

The analytical results for each of the sampling locations were below category 1 action levels. The site specific scoring criteria gave an accumulative score of 55 and thus the site was assigned category 3 action levels.

Based on the field screening results, laboratory results, and scoring criteria, it is recommended that this site be closed with no further action.

TABLE I
Field Screening Summary
Soil Samples from Excavation and Trenches

Map Location	Description	H-Nu (ppm)	Laboratory No.
A	Beneath the North end of Gasoline Tank	16.0	TIA9862
B	Beneath the South end of Gasoline Tank	5.0	
C	Beneath the Dispenser Area	6.0	TIA9864

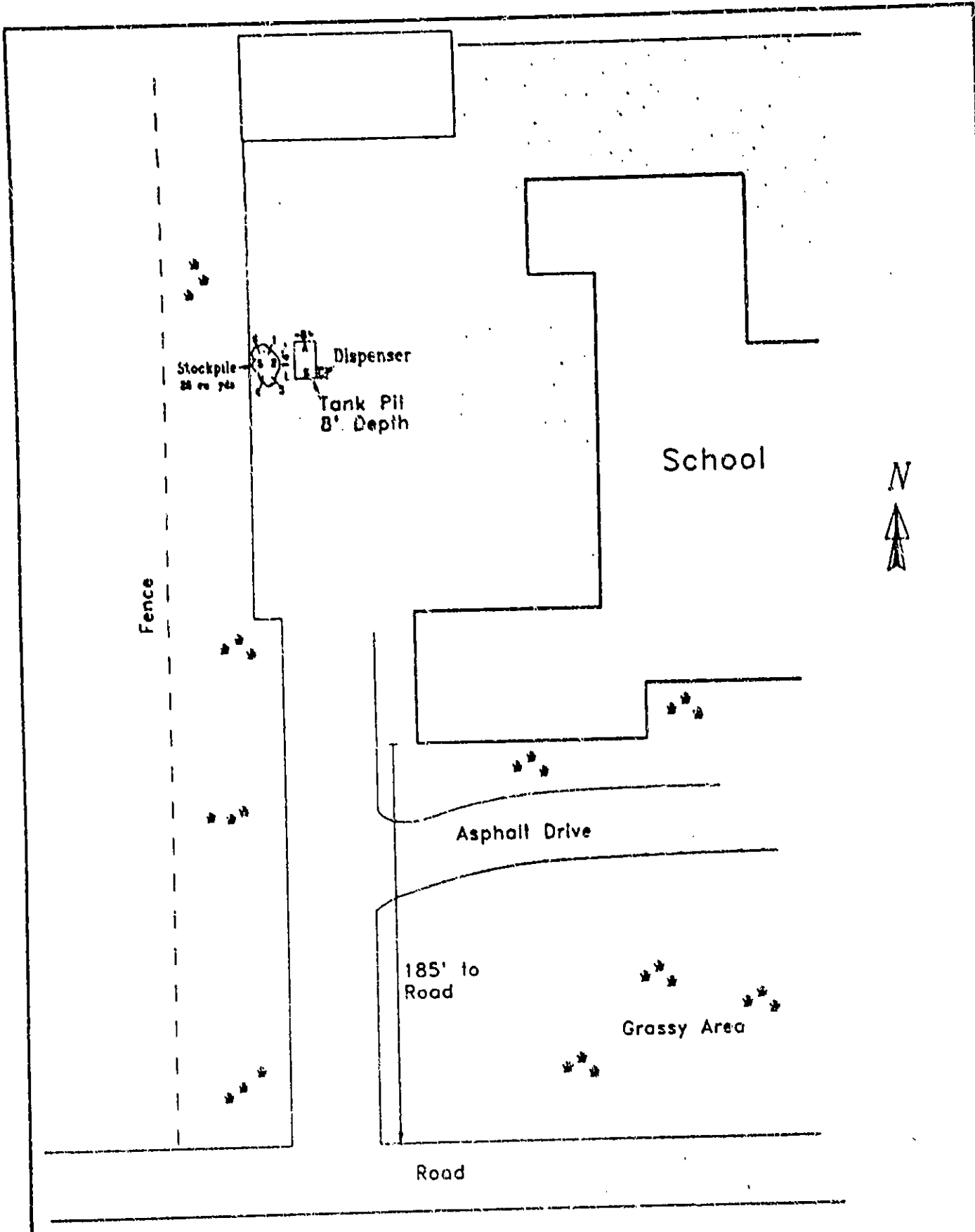
TABLE II
Field Screening Summary
Soil Samples from Stockpiled Soil


Map Location	Description	H-Nu (ppm)	Laboratory Number
1	Northeast Stockpile	185.0	
2	East Stockpile	194.0	TIA9863
3	Southeast Stockpile	104.0	
4	Southwest Stockpile	92.0	
5	West Stockpile	120.0	
6	Northwest Stockpile	132.0	



TABLE III
SUMMARY TABLE OF SOIL ANALYSES
 Valley Local School District
 UST Closure

Description	Map ID	Lab ID	PID (ppm)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	TPH (GRO) (mg/kg)	TPH (DE) (mg/kg)
FSS Action Level Category 3	----	----	----	0.335	9.0	14.0	67.0	450.0	904.0
North End of Tank Pit	A	TIA9862	16.0	<0.006	<4.0	<6.0	<28.0	<105.0	<105.0
West Stockpile Sample	2	TIA9863	194.0	<0.006	<4.0	<6.0	<28.0	<105.0	<105.0
Dispenser Sample	C	TIA9864	6.0	<0.006	<4.0	<6.0	<28.0	<105.0	<105.0




Waste-Tron, Inc.
 1208 Greenbrier Street
 Charleston, WV 25311
 304-344-1640

Valley Local School District
 Lucasville, Ohio

Site Map

DATE	DESIGNED	APPROVED	DATE	SCALE
CMB	CB	CB	11/20/92	AS SHOWN
PROJECT	LAYOUT		BY	

FIGURE NO.
1

SFSS Written Report

1. Distance of UST from Closest potable water supply source currently in use is less than 300 feet. A score of 10 was assigned to this feature.
2. The average depth to groundwater was determined to be 15-30 feet, and therefore a score of 10 was assigned to this feature.
3. The predominant soil type of the substratum in the UST excavation was a silty clay which was observed during excavation activities. A score of 15 was assigned to this feature.
4. There were no subsurface foundations within 100 feet of the UST system, or other natural and/or man-made conduits or receptors within 50 feet of the UST system. A score of 20 was assigned to this feature.

BASED ON A TOTAL OF 35 POINTS, THE SFSS ACTION LEVEL IS CATEGORY 3.

WELL LOG AND DRILLING REPORT #30

ORIGINAL

State of Ohio
DEPARTMENT OF NATURAL RESOURCES
Division of Water
1562 W. First Avenue
Columbus 12, Ohio

IV (60)
No. 286834
Ladonna

PLEASE USE PENCIL
OR TYPEWRITER
DO NOT USE INK.

County Scioto Township Valley Section of Township 1st 9th 7
 Owner Robert Leonard Address Lucasville Ohio #2
 Location of property off 932 road near Smith - Mansfield road

CONSTRUCTION DETAILS

Casing diameter 5 5/8 Length of casing 30
 Type of screen..... Length of screen.....
 Type of pump.....
 Capacity of pump.....
 Depth of pump setting.....
 Date of completion Jan 30 1964

BAILING OR PUMPING TEST

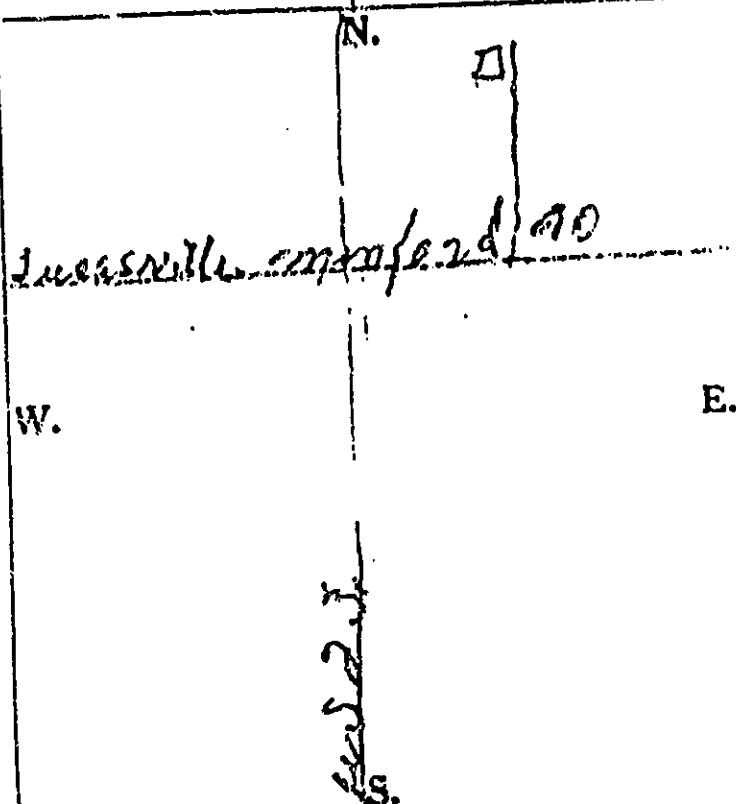
Pumping Rate 4 G.P.M. Duration of test..... hrs.
 Drawdown 45 ft. Date Jan 30 1964
 Static level-depth to water 35 ft.
 Quality (clear, cloudy, taste, odor).....
 Pump installed by.....

WELL LOG

Formations Sandstone, shale, limestone, gravel and clay	From	To
	0 Feet Ft.
<u>10' soil</u>	<u>0</u>	<u>30</u>
<u>Blue slate</u>	<u>30</u>	<u>60</u>
<u>Sandstone gray</u>	<u>60</u>	<u>75</u>
<u>water</u>	<u>35</u>	

SKETCH SHOWING LOCATION

Locate in reference to numbered
State Highways, St. Intersections, County roads, etc.



See reverse side for instructions

Drilling Firm Shuman & Sons
 Address Mansfield Ohio #1

Date Jan 30 1964
 Signed W. G. Shuman

(30A)

WELL LOG AND DRILLING REPORT # 10.1

14 (58)

PLEASE USE PENCIL
OR TYPEWRITER
DO NOT USE INK.

State of Ohio
DEPARTMENT OF NATURAL RESOURCES
Division of Water
1562 W. First Avenue
Columbus 12, Ohio

No 288603

County Scioto Township Valley Section of Township _____

Owner Deward Brown Address #2, Leesville, Ohio

Location of property About 1/2 mi. east of Leesville, Ohio on Highway 141 (Harrison)

CONSTRUCTION DETAILS

Casing diameter 5 3/8" Length of casing 16'
 Type of screen _____ Length of screen _____
 Type of pump _____
 Capacity of pump _____
 Depth of pump setting _____
 Date of completion Nov. 13, 1962

BAILING OR PUMPING TEST

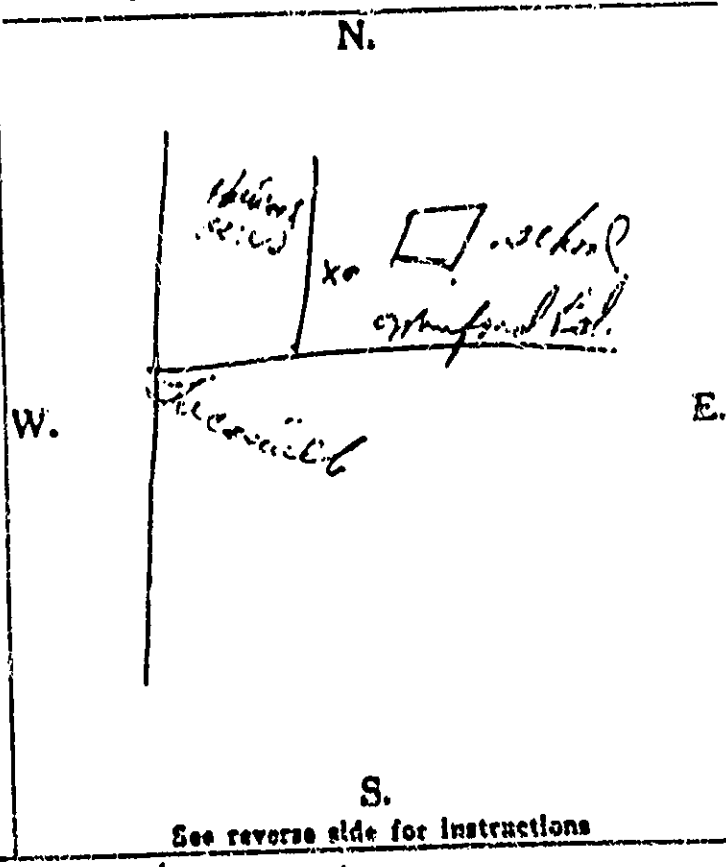
Pumping Rate 100 G.P.M. Duration of test 2 hrs.
 Drawdown _____ ft. Date Nov. 13, 1962
 Static level-depth to water 14' ft.
 Quality (clear, cloudy, taste, odor) good
 Pump installed by _____

WELL LOG

Formations Sandstone, shale, limestone, gravel and clay	From	To
<u>Clay sandstone</u>	0 Feet	<u>27</u> Ft.
	14	<u>67'6"</u>

SKETCH SHOWING LOCATION

Locate in reference to numbered
State Highways, St. Intersections, County roads, etc.



S.
See reverse side for instructions

Drilling Firm Ferguson Drilling Co.
 Address #1, Petrol, Ohio

Date Nov. 13, 1962
 Signed Bob L. Ferguson

(20.1) 1

WELL LOG AND DRILLING REPORT # 32

ORIGINAL

III (68)

State of Ohio
DEPARTMENT OF NATURAL RESOURCES
Division of Water
1562 W. First Avenue
Columbus, Ohio

No. 266934

PLEASE USE PENCIL OR TYPEWRITER. DO NOT USE INK.

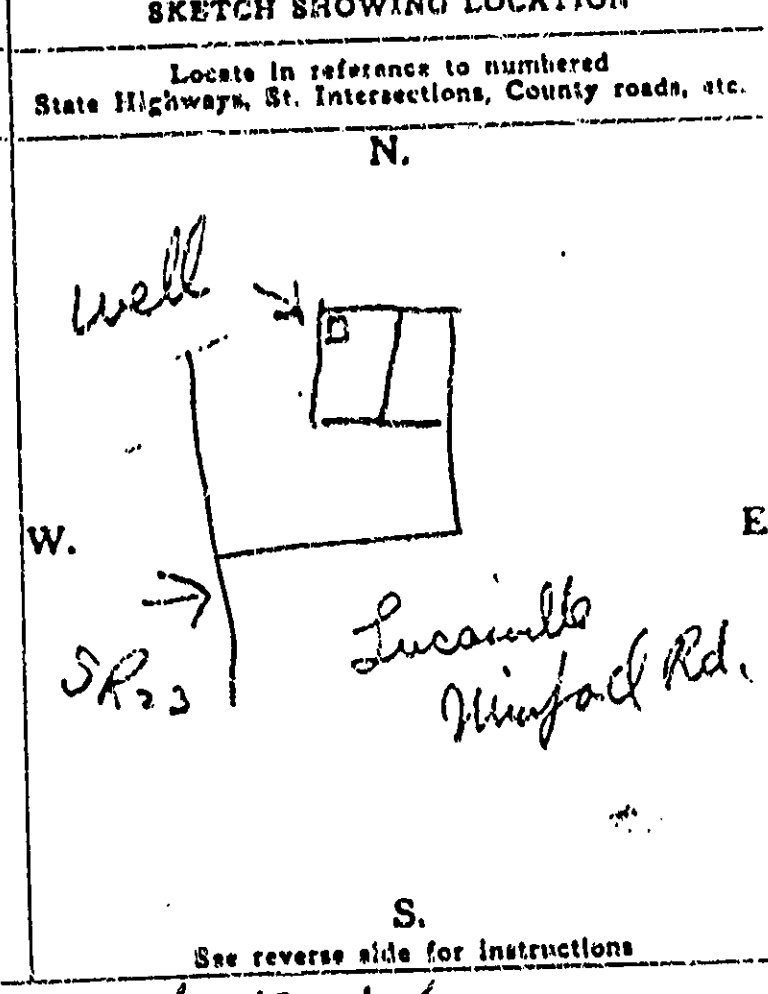
County Scioto Township Valley Section of Township Lot # 116
Owner Chris Kelly Address Sciotoville O. R. # 2
Location of property 1 mi. E. of Sciotoville in Lumberman oak

CONSTRUCTION DETAILS
Casing diameter 5 1/8 Length of casing 27
Type of screen..... Length of screen.....
Type of pump.....
Capacity of pump.....
Depth of pump setting.....
Date of completion.....

BAILING OR PUMPING TEST
Pumping rate 15 G.P.M. Duration of test 1/4 hrs.
Drawdown..... ft. Date.....
Developed capacity.....
Static level—depth to water 2 1/2 ft.
Pump installed by.....

WELL LOG

Formations	From	To
Sandstone, shale, limestone, gravel and clay	0 Feet	<u>23</u> ft.
<u>Dirt</u>		
<u>Sandy gravel</u>	<u>23</u>	<u>27</u>
<u>Stone & Shale</u>	<u>27</u>	<u>57</u>
<u>Water in gravel</u>		



Drilling Firm Walter Ruby
Address Lucasville O.

Date 5-13-62
Signed Walter Ruby

WELL LOG AND DRILLING REPORT #34

III (10)
No. 305379

PLEASE USE PENCIL
OR TYPEWRITER
DO NOT USE INK.

State of Ohio
DEPARTMENT OF NATURAL RESOURCES #34
Division of Water
1542 W. First Avenue
Columbus 12, Ohio

County Scioto Township Valley Section of Township Lot # 31
Owner J. S. Slick Address Lucasville, W. Va.
Location of property Lot # 37 in Tomlinson Subdivision

CONSTRUCTION DETAILS

Casing diameter 5 5/8 Length of casing 17 ft
Type of screen..... Length of screen.....
Type of pump.....
Capacity of pump.....
Depth of pump setting.....
Date of completion.....

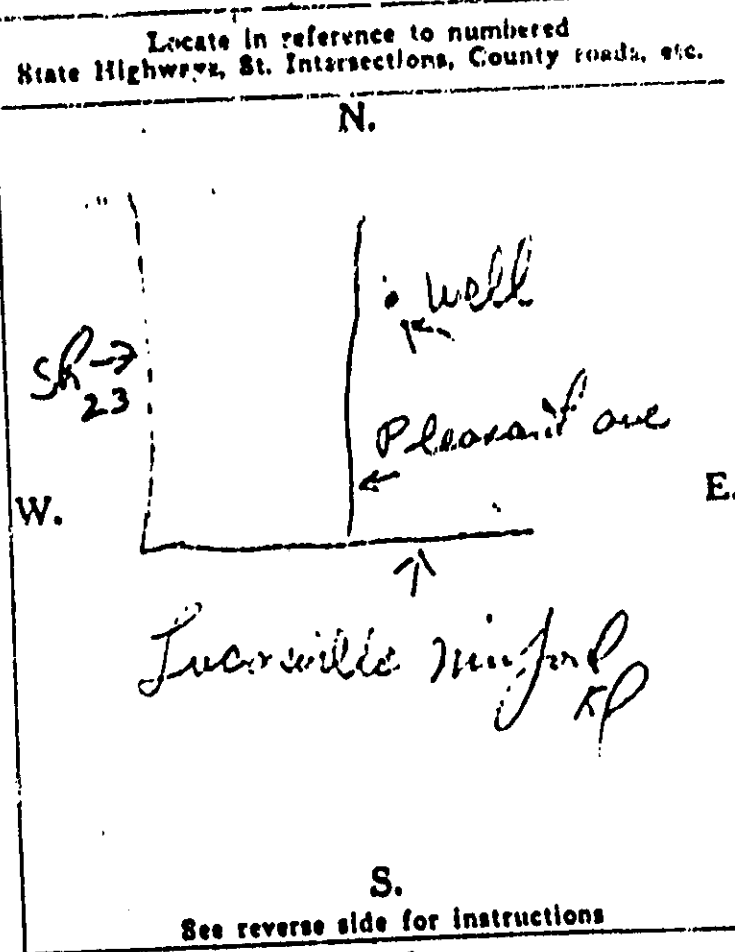
BAILING OR PUMPING TEST

Pumping Rate 2 G.P.M. Duration of test 1/2 hrs.
Drawdown..... ft. Date.....
Static level depth to water 133 ft.
Quality (clear) cloudy, taste, odor).....
Pump installed by.....

WELL LOG

Formations Sandstone, shale, limestone, gravel and clay	From	To
Soil	0 Feet	16 Ft.
gravel	16	18
Shale & Stone	18	44
Water in gravel.		

SKETCH SHOWING LOCATION



Drilling Firm Walter Ruby
Address Lucasville, W. Va.

Date 10-19-64
Signed Walter Ruby

PLEASE USE PENCIL
OR TYPEWRITER
DO NOT USE INK.

State of Ohio
DEPARTMENT OF NATURAL RESOURCES
Division of Water
1562 W. First Avenue
Columbus 12, Ohio

(71)
No 305378

County Sasie Township Valley Section of Township _____
Owner Wm Daniel Address Lucasville, Mo
Location of property Lot # 10 in Tomlinson Subdivision

CONSTRUCTION DETAILS

Casing diameter 5 3/8 Length of casing 29
Type of screen _____ Length of screen _____
Type of pump _____
Capacity of pump _____
Depth of pump setting _____
Date of completion _____

BAILING OR PUMPING TEST

Pumping Rate 10 G.P.M. Duration of test 5 hrs.
Drawdown _____ ft. Date _____
Static level-depth to water 24 ft.
Quality (clear) (cloudy, taste, odor) _____
Pump installed by _____

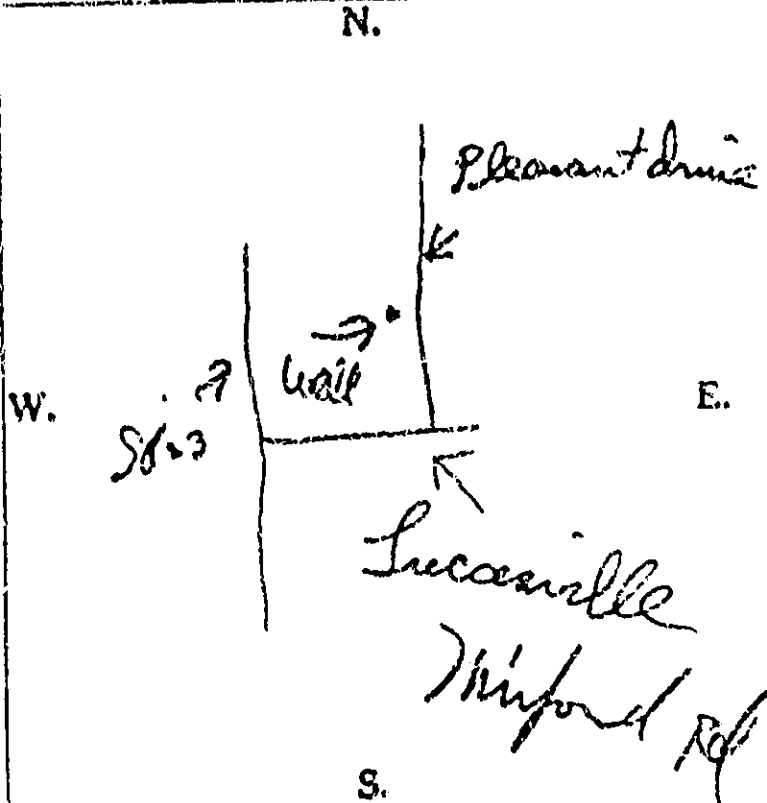
WELL LOG

Formations Sandstone, shale, limestone, gravel and clay	From	To
Soil	0 Feet	29 Ft.
gravel	29	31
Shale	31	50
Stone	50	55

Water
30 ft
in gravel

SKETCH SHOWING LOCATION

Locate in reference to numbered
State Highways, St. Intersections, County roads, etc.



See reverse side for instructions

Drilling Firm Walter Ruby
Address Lucasville

Date 10-3-64
Signed Walter Ruby

(71) 7

State of Ohio
DEPARTMENT OF NATURAL RESOURCES
Division of Water
1562 W. First Avenue
Columbus, Ohio 43212

PLEASE USE PENCIL
OR TYPEWRITER
DO NOT USE INK.

County Sails Township Valley Section of Township _____
Owner Heber Spradlin Address Lusaville Pa Ohio
Location of property Lot # 11 in Lincoln Subdivision

CONSTRUCTION DETAILS

BAILING OR PUMPING TEST

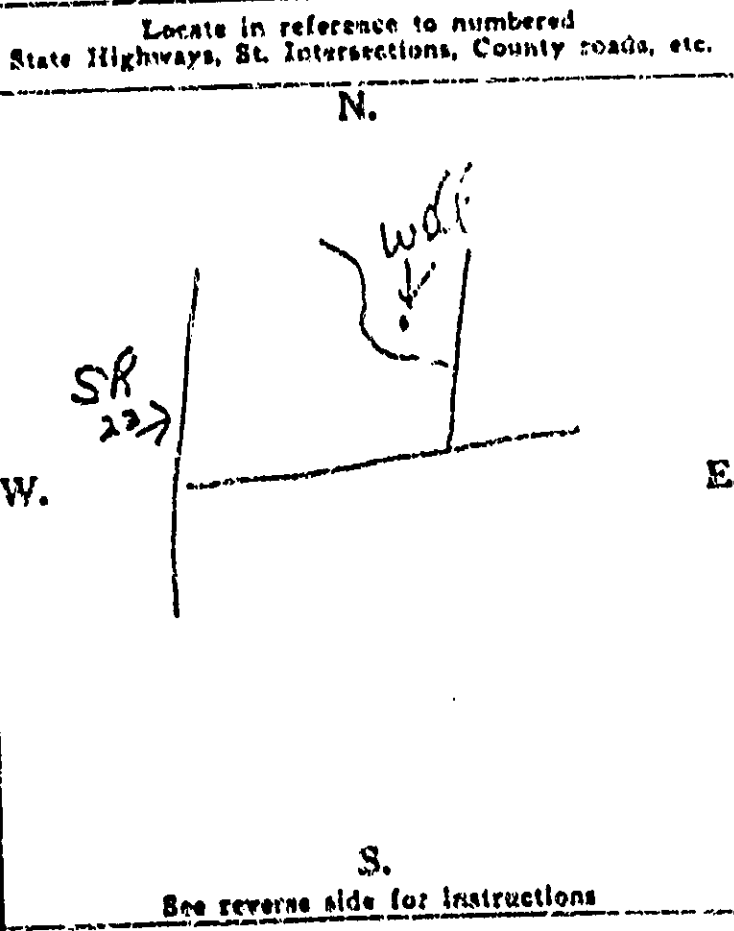
Casing diameter 5 1/2 Length of casing 17
Type of screen _____ Length of screen _____
Type of pump _____
Capacity of pump _____
Depth of pump setting _____
Date of completion _____

Pumping Rate 12 G.P.M. Duration of test 1/2 hrs
Drawdown _____ ft. Date _____
Static level-depth to water 14 ft
Quality (clear) cloudy, taste, odor) _____
Pump installed by _____

WELL LOG*

SKETCH SHOWING LOCATION

Formations Sandstone, shale, limestone, gravel and clay	From	To
<u>Soil</u>	<u>0 Feet</u>	<u>13 Ft.</u>
<u>Gravel</u>	<u>13</u>	<u>18</u>
<u>Shale & Stone</u>	<u>18</u>	<u>53</u>
<u>Water in gravel</u>		



See reverse side for instructions

Drilling Firm Walter Ruby
Address Porto-Rb Ohio

Date 10-31-67
Signed Walter Ruby

*If additional space is needed to complete well log, use next consecutive numbered form

PLEASE USE PENCIL
OR TYPEWRITER
DO NOT USE INK.

State of Ohio
DEPARTMENT OF NATURAL RESOURCES
Division of Water
1562 W. First Avenue
Columbus 12, Ohio

No 318505

County Seneca Township Van Buren Section of Township 2122

Owner William Daniels Address _____

Location of property Don't see town/section combination 116 mi

CONSTRUCTION DETAILS

BAILING OR PUMPING TEST

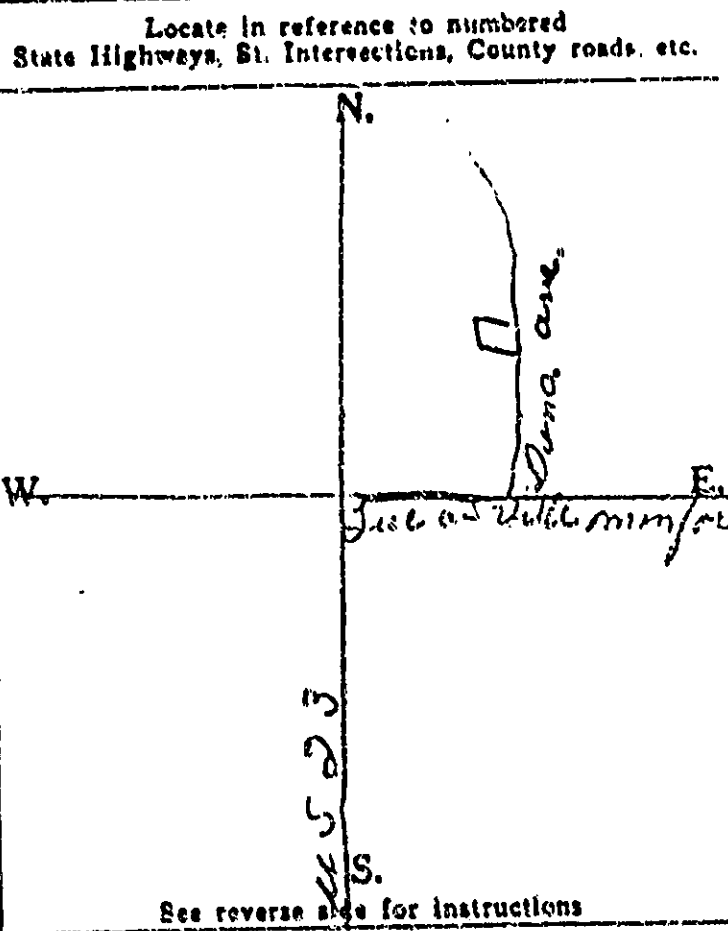
Casing diameter 1 1/8 Length of casing 12
Type of screen _____ Length of screen _____
Type of pump _____
Capacity of pump _____
Depth of pump setting _____
Date of completion 4/16/65

Pumping Rate 6 G.P.M. Duration of test _____ hrs.
Drawdown _____ ft. Date 4/16/65
Static level-depth to water _____ ft.
Quality (clear, cloudy, taste, odor) _____
Pump installed by _____

WELL LOG

SKETCH SHOWING LOCATION

Formations Sandstone, shale, limestone, gravel and clay	From	To
	0 FeetFt.
<u>Top soil</u>	<u>0</u>	<u>12</u>
<u>Blue slate</u>	<u>12</u>	<u>30</u>
<u>Light sandstone</u>	<u>30</u>	<u>50</u>
<u>Blue slate</u>	<u>50</u>	<u>60</u>
<u>24 ft ss</u>	<u>24</u>	<u>33</u>



See reverse side for instructions

Drilling Firm Shannon & Son Date 4/16/1965
Address Manufact. R. 20th Signed Virgil S. Shannon

(316) R

WELL LOG AND DRILLING REPORT #37

ORIGINAL

III
64
No 335344

State of Ohio
DEPARTMENT OF NATURAL RESOURCES
Division of Water
1567 W. First Avenue
Columbus, Ohio 43212

PLEASE USE PENCIL
OR TYPEWRITER
DO NOT USE INK

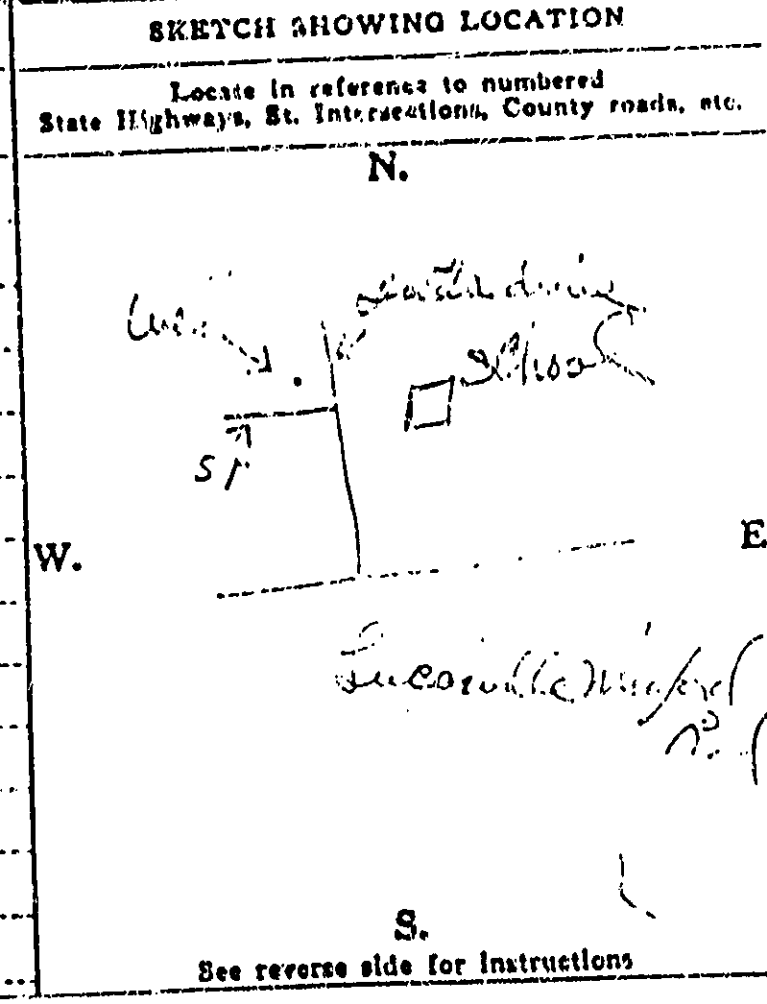
County Scioto Township Walley Section of Township _____
Owner Clay Beardsley Address Lucasville R2 Ohio
Location of property Joetta drive in town of Lucasville

CONSTRUCTION DETAILS
Casing diameter 3 7/8 Length of casing 11 1/2
Type of screen _____ Length of screen _____
Type of pump _____
Capacity of pump _____
Depth of pump setting _____
Date of completion _____

BAILING OR PUMPING TEST
Pumping Rate 3 1/2 G.P.M. Duration of test 1/2 hrs.
Drawdown 60 ft. Date _____
Static level-depth to water 10' ft.
Quality (clear) cloudy, taste, odor) _____
Pump installed by _____

WELL LOG*

Formations Sandstone, shale, limestone, gravel and clay	From	To
<u>Silt</u>	<u>0 Feet</u>	<u>12 Ft.</u>
<u>Shale & Sand</u>	<u>12</u>	<u>60</u>
<u>Water</u>	<u>51'</u>	<u>44'</u>



Drilling Firm Walter Ruby Date 11-8-66
Address P.O. Box 26 Ohio Signed Walter Ruby

*If additional space is needed to complete well log, use next consecutive numbered forms

WELL LOG AND DRILLING REPORT #39

ORIGINAL

III (65)

No 364679

PLEASE USE PENCIL
OR TYPEWRITER
DO NOT USE INK.

State of Ohio
DEPARTMENT OF NATURAL RESOURCES
Division of Water
1562 W. First Avenue
Columbus, Ohio 43212

County Scioto Township Valley Section of Township _____

Owner John Pimlott Address Lucanille Rd. Ohio

Location of property Lot # 108 in Lucanille Sub. # 2

CONSTRUCTION DETAILS

BAILING OR PUMPING TEST

Casing diameter 5.58 Length of casing 20'
 Type of screen _____ Length of screen _____
 Type of pump jet
 Capacity of pump 2.5 G.P.M.
 Depth of pump setting 2 ft off bottom
 Date of completion _____

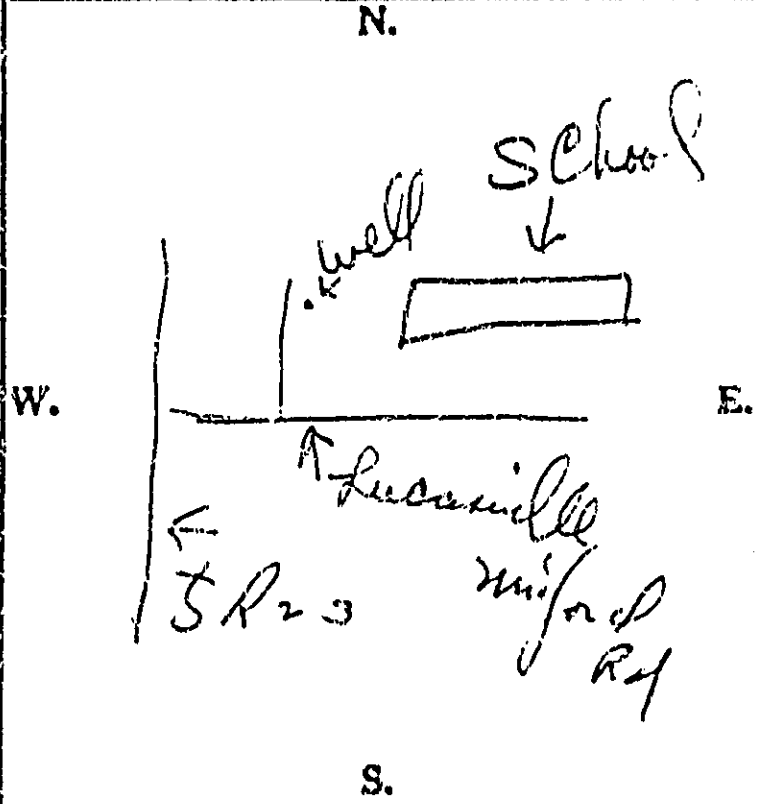
Pumping Rate 10 G.P.M. Duration of test 2 hrs.
 Drawdown _____ ft. Date _____
 Static level-depth to water 18 ft.
 Quality (clear, cloudy, taste, odor) _____
 Pump installed by _____

WELL LOG*

SKETCH SHOWING LOCATION

Formations Sandstone, shale, limestone, gravel and clay	From	To
<u>Soil</u>	<u>0 Feet</u>	<u>17 Ft.</u>
<u>gravel</u>	<u>12</u>	<u>21</u>
<u>Earth</u>	<u>21</u>	<u>22</u>
<u>Shale & Stone</u>	<u>22</u>	<u>57</u>
<u>Water in</u>		
<u>ground</u>		

Locate in reference to numbered
State Highways, St. Intersections, County roads, etc.



S.
See reverse side for instructions

Drilling Firm Walter Ruby Date 10-14-67

Address Paris Rd. Ohio Signed Walter Ruby

*If additional space is needed to complete well log, use next consecutive numbered form.



[\[Back\]](#)

Facility Details

Facility ID 73007023
Facility Name CHABOTS #21 HARWOOD'S GAS STATION
Address 299 INDIAN DRIVE
City LUCASVILLE
Zip 45648
County Scioto
Type Gas Station
24 HR Emergency Contact JAMES HARWOOD
24 HR Emergency Phone (740)259-4166
Number of Tanks on Site 3
Local Fire Dept Zero
Delegated Authority No
Eligible for Green Buckeye Award N/A
Active Release Site No

Owner Details

Owner ID W012384
Owner Name JAMES HARWOOD
Address P O BOX 551
City LUCASVILLE
State OH
Zip 45648
Phone (740) 259-4166

Tank Information

Tank ID	Tank Type	Capacity	Content	Status
T00003	Double Walled (Interstice)	8000	Gasoline	CIU-Currently In Use
T00002	Steel;Double Walled (Interstice)	8000	Gasoline	CIU-Currently In Use
T00001	Steel;Double Walled (Interstice)	8000	Gasoline	CIU-Currently In Use

Permit Information

Permit ID	Permit Status	Issue Date	LFD Permit ID
P00001	Expired	10/4/1999	

Inspection Information

Inspection ID	Permit Number	Inspection Date	Code	Type
I00001	P00001	6/10/99	503	Final

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[\[Back\]](#)

Tank Details

Facility ID	73007023
Tank ID	T00003
Installation Date	6/1/87
Capacity	8000
Tank Type	Double Walled (Interstice)
Corrosion Protection Piping	None Required
Corrosion Protection Tank	None Required
Content	Gasoline
CAS #	8006-61-9
Regulated	Yes
Overfill Device Installed	Yes
Spill Device Installed	Yes
Status	CIU
AST / UST	UST
Piping Material	Fiberglass Reinforced Plastic
Piping Type	Pressure
Release Detection on Piping	Electronic Line Leak Detector
Release Detection on Tank	Automatic Tank Gauging
Release Detection on Line	
Date Removed	
Date Last Used	
Date Abandoned / Closed	

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[\[Back\]](#)

Tank Details

Facility ID	73007023
Tank ID	T00002
Installation Date	6/1/87
Capacity	8000
Tank Type	Steel;Double Walled (Interstice)
Corrosion Protection Piping	None Required
Corrosion Protection Tank	None Required
Content	Gasoline
CAS #	8006-61-9
Regulated	Yes
Overfill Device Installed	Yes
Spill Device Installed	Yes
Status	CIU
AST / UST	UST
Piping Material	Fiberglass Reinforced Plastic
Piping Type	Pressure
Release Detection on Piping	Electronic Line Leak Detector
Release Detection on Tank	Automatic Tank Gauging
Release Detection on Line	
Date Removed	
Date Last Used	
Date Abandoned / Closed	

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[\[Back\]](#)

Tank Details

Facility ID	73007023
Tank ID	T00001
Installation Date	6/1/87
Capacity	8000
Tank Type	Steel;Double Walled (Interstice)
Corrosion Protection Piping	None Required
Corrosion Protection Tank	None Required
Content	Gasoline
CAS #	8006-61-9
Regulated	Yes
Overfill Device Installed	Yes
Spill Device Installed	Yes
Status	CIU
AST / UST	UST
Piping Material	Fiberglass Reinforced Plastic
Piping Type	Pressure
Release Detection on Piping	Electronic Line Leak Detector
Release Detection on Tank	Automatic Tank Gauging
Release Detection on Line	
Date Removed	
Date Last Used	
Date Abandoned / Closed	

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[\[Back\]](#)

Permit Details

Facility ID	73007023
Permit ID	P00001
Permit Status	Expired
Issue Date	10/4/99
LFD Permit ID	
Reason for Permit	Upgrade

Contractor Details

No contractor details available.

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[\[Back\]](#)

Inspection Field Report Details

Facility ID	73007023
Permit #	P00001
Cavity Inspection	
In Ground Tank Test	
Piping Test	
Leak Detection - Tank	
Leak Detection - Piping	
Precision Test	
Holes In Tank	Tank #
Holes In Piping	No
Tank Cavity	
Piping Run	
Beneath Dispenser	
Inspector	
Installer	
Inspection Date	6/10/99
Final Inspection	Yes
Inspection Code	503-Upgrade Total System
Comments	UPGRADE TOTAL SYSTEM

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[\[Back\]](#)

Facility Details

Facility ID	73000075
Facility Name	BUSTERS BI -LO #28
Address	7151 OLD GALLIA PIKE
City	SCIOTOVILLE
Zip	45662
County	Scioto
Type	Gas Station
24 HR Emergency Contact	TRI STATE SECURITY
24 HR Emergency Phone	(740)354-2990
Number of Tanks on Site	3
Local Fire Dept	Zero
Delegated Authority	No
Eligible for Green Buckeye Award	N/A
Active Release Site	No

Owner Details

Owner ID	W008566
Owner Name	DELMER E. HICKS
Address	1321 4TH ST
City	PORTSMOUTH
State	OH
Zip	45662
Phone	(740)354-4333

Tank Information

Tank ID	Tank Type	Capacity	Content	Status
T00003	Steel;Cathodically Protected Steel;	8000	Gasoline	CIU-Currently In Use
T00002	Steel;Cathodically Protected Steel;	8000	Gasoline	CIU-Currently In Use
T00001	Steel;Cathodically Protected Steel;	8000	Gasoline	CIU-Currently In Use

Permit Information

Permit ID	Permit Status	Issue Date	LFD Permit ID
P00001	Expired	10/25/1994	

Inspection Information

Inspection ID	Permit Number	Inspection Date	Code	Type
I00001	P00001	10/11/94	503	Final

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[\[Back\]](#)

Tank Details

Facility ID	73000075
Tank ID	T00002
Installation Date	10/1/70
Capacity	8000
Tank Type	Steel;Cathodically Protected Steel;
Corrosion Protection Piping	Impressed Current
Corrosion Protection Tank	Impressed Current
Content	Gasoline
CAS #	8006-61-9
Regulated	Yes
Overfill Device Installed	Yes
Spill Device Installed	Yes
Status	CIU
AST / UST	UST
Piping Material	Galvanized Steel;Cathodically Pr
Piping Type	Pressure
Release Detection on Piping	Electronic Line Leak Detector
Release Detection on Tank	Automatic Tank Gauging
Release Detection on Line	
Date Removed	
Date Last Used	
Date Abandoned / Closed	

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[\[Back\]](#)

Tank Details

Facility ID	73000075
Tank ID	T00003
Installation Date	10/1/70
Capacity	8000
Tank Type	Steel;Cathodically Protected Steel;
Corrosion Protection Piping	Impressed Current
Corrosion Protection Tank	Impressed Current
Content	Gasoline
CAS #	8006-61-9
Regulated	Yes
Overfill Device Installed	Yes
Spill Device Installed	Yes
Status	CIU
AST / UST	UST
Piping Material	Galvanized Steel;Cathodically Pr
Piping Type	Pressure
Release Detection on Piping	Electronic Line Leak Detector
Release Detection on Tank	Automatic Tank Gauging
Release Detection on Line	
Date Removed	
Date Last Used	
Date Abandoned / Closed	

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[\[Back\]](#)

Tank Details

Facility ID	73000075
Tank ID	T00001
Installation Date	10/1/70
Capacity	8000
Tank Type	Steel;Cathodically Protected Steel;
Corrosion Protection Piping	Impressed Current
Corrosion Protection Tank	Impressed Current
Content	Gasoline
CAS #	8006-61-9
Regulated	Yes
Overfill Device Installed	Yes
Spill Device Installed	Yes
Status	CIU
AST / UST	UST
Piping Material	Galvanized Steel;Cathodically Pr
Piping Type	Pressure
Release Detection on Piping	Electronic Line Leak Detector
Release Detection on Tank	Automatic Tank Gauging
Release Detection on Line	
Date Removed	
Date Last Used	
Date Abandoned / Closed	

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[\[Back\]](#)

Permit Details

Facility ID	73000075
Permit ID	P00001
Permit Status	Expired
Issue Date	10/25/94
LFD Permit ID	
Reason for Permit	Upgrade

Contractor Details

No contractor details available.

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[\[Back\]](#)

Inspection Field Report Details

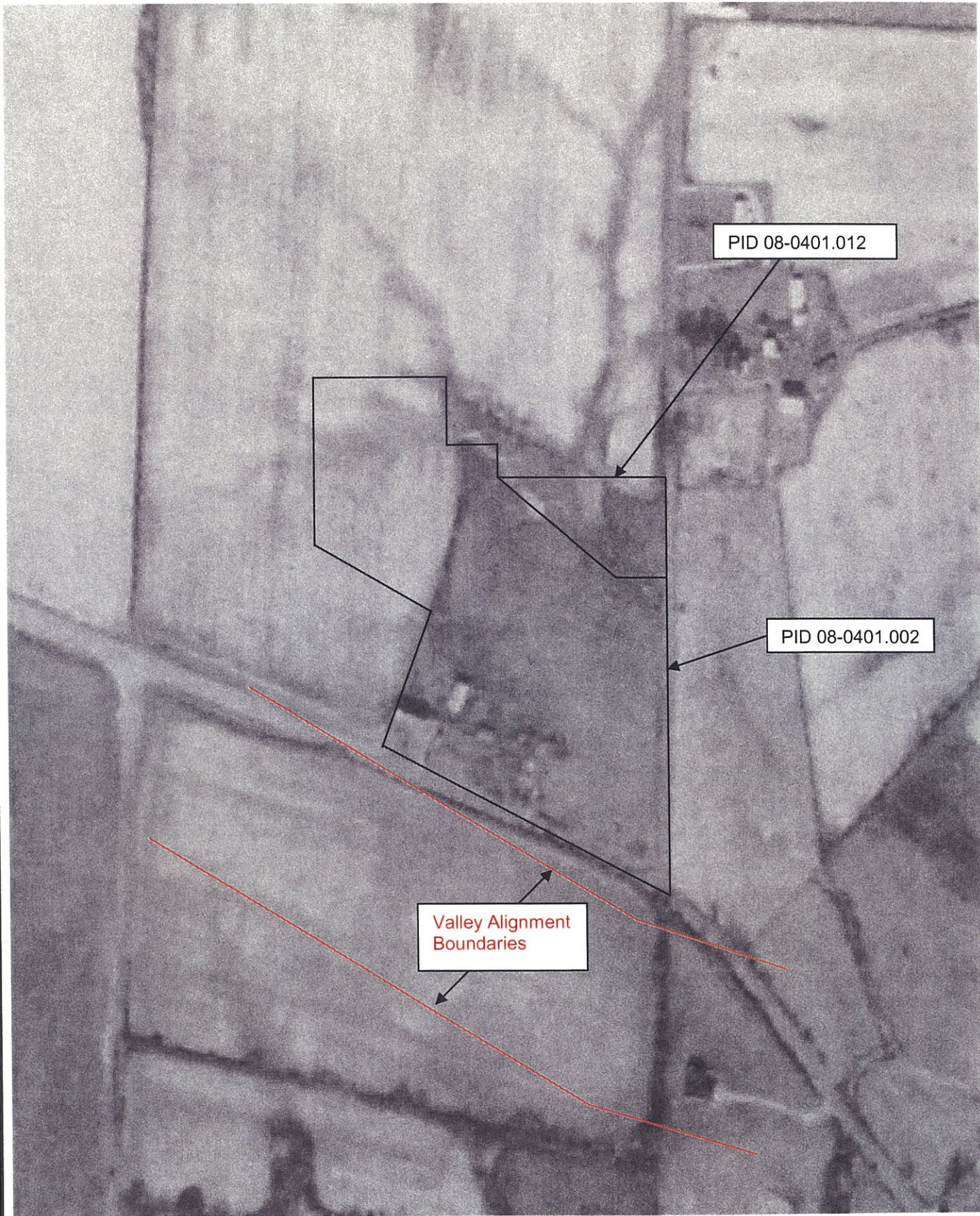
Facility ID	73000075	
Permit #	P00001	
Cavity Inspection		
In Ground Tank Test		
Piping Test		
Leak Detection - Tank		
Leak Detection - Piping		
Precision Test		
Holes In Tank		Tank #
Holes In Piping	No	
Tank Cavity		
Piping Run		
Beneath Dispenser		
Inspector		
Installer		
Inspection Date	10/11/94	
Final Inspection	Yes	
Inspection Code	503-Upgrade Total System	
Comments	UPGRADE TOTAL SYSTEM	

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**APPENDIX G –
AERIAL PHOTOGRAPHS**





PID 08-0401.012

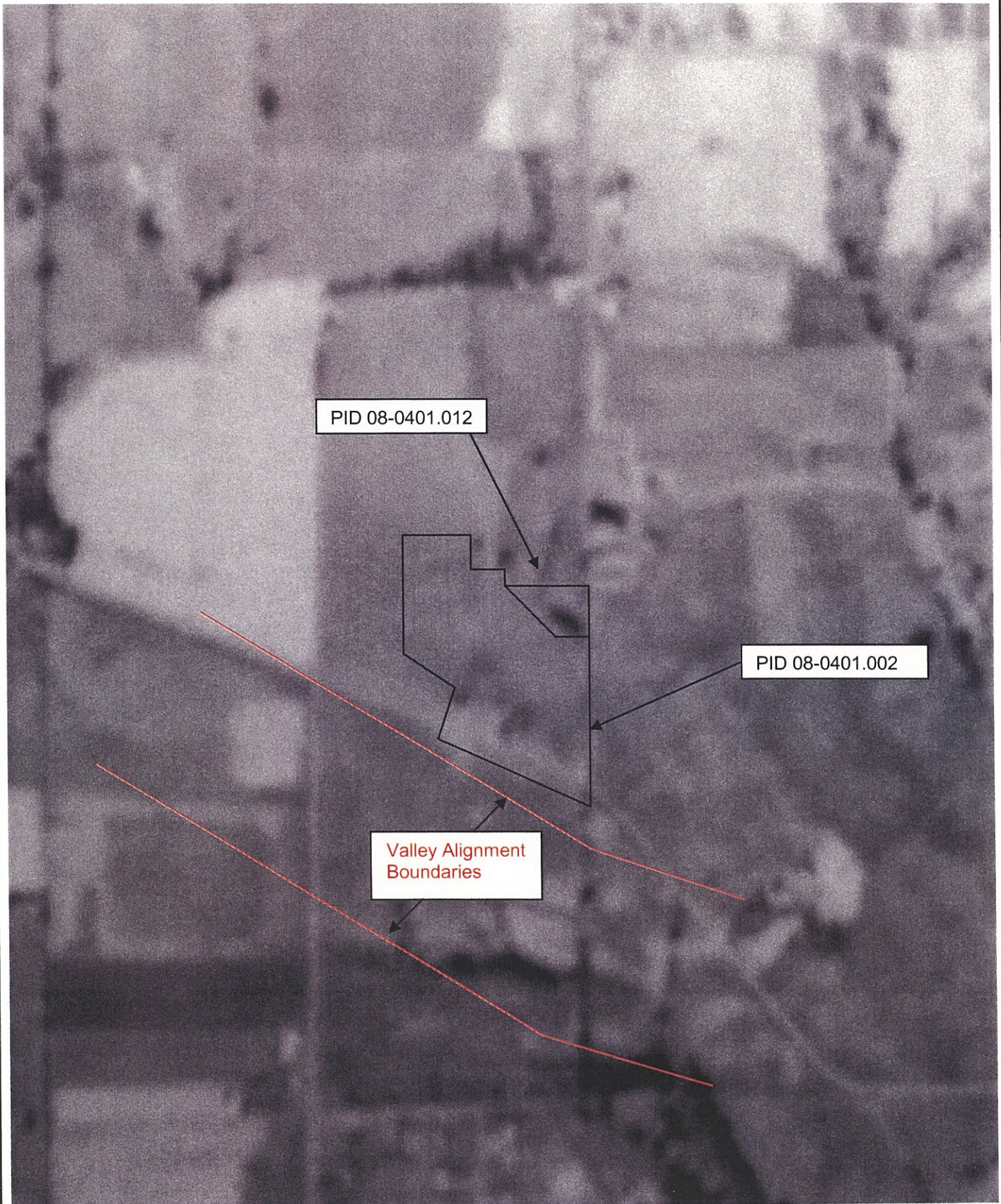
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Valley Alignment
Boundaries



1981 Aerial Photograph
Turner & Keller's Collision Property
SCI-823-0.00, PID 19415
Portsmouth Bypass Project
SCIOTO COUNTY, OHIO

Project No.:
P403020102



PID 08-0401.012

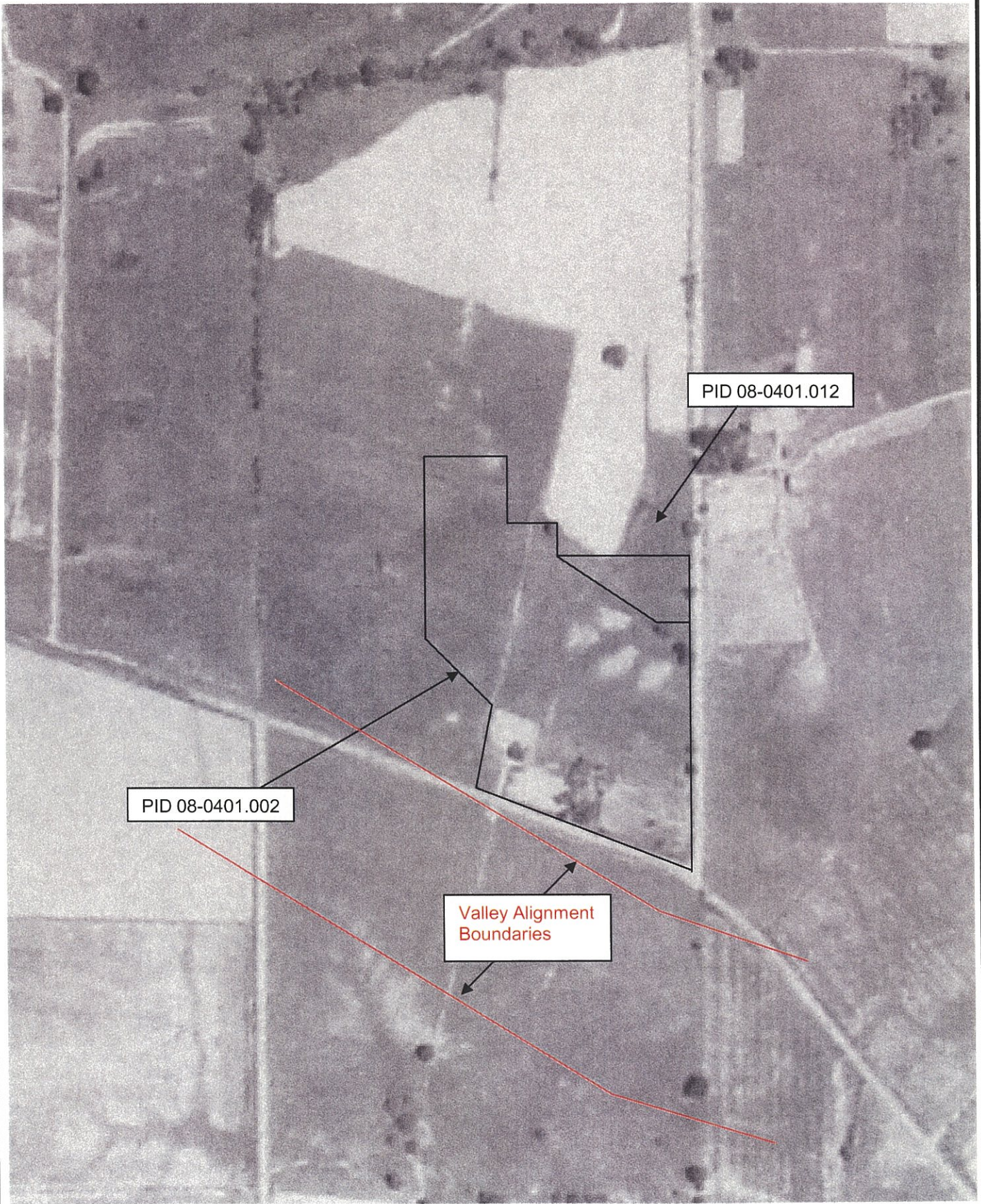
PID 08-0401.002

Valley Alignment
Boundaries



1966 Aerial Photograph
Turner & Keller's Collision Property
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Portsmouth Bypass Project
SCIOTO COUNTY, OHIO

Project No.:
P403020102



PID 08-0401.012

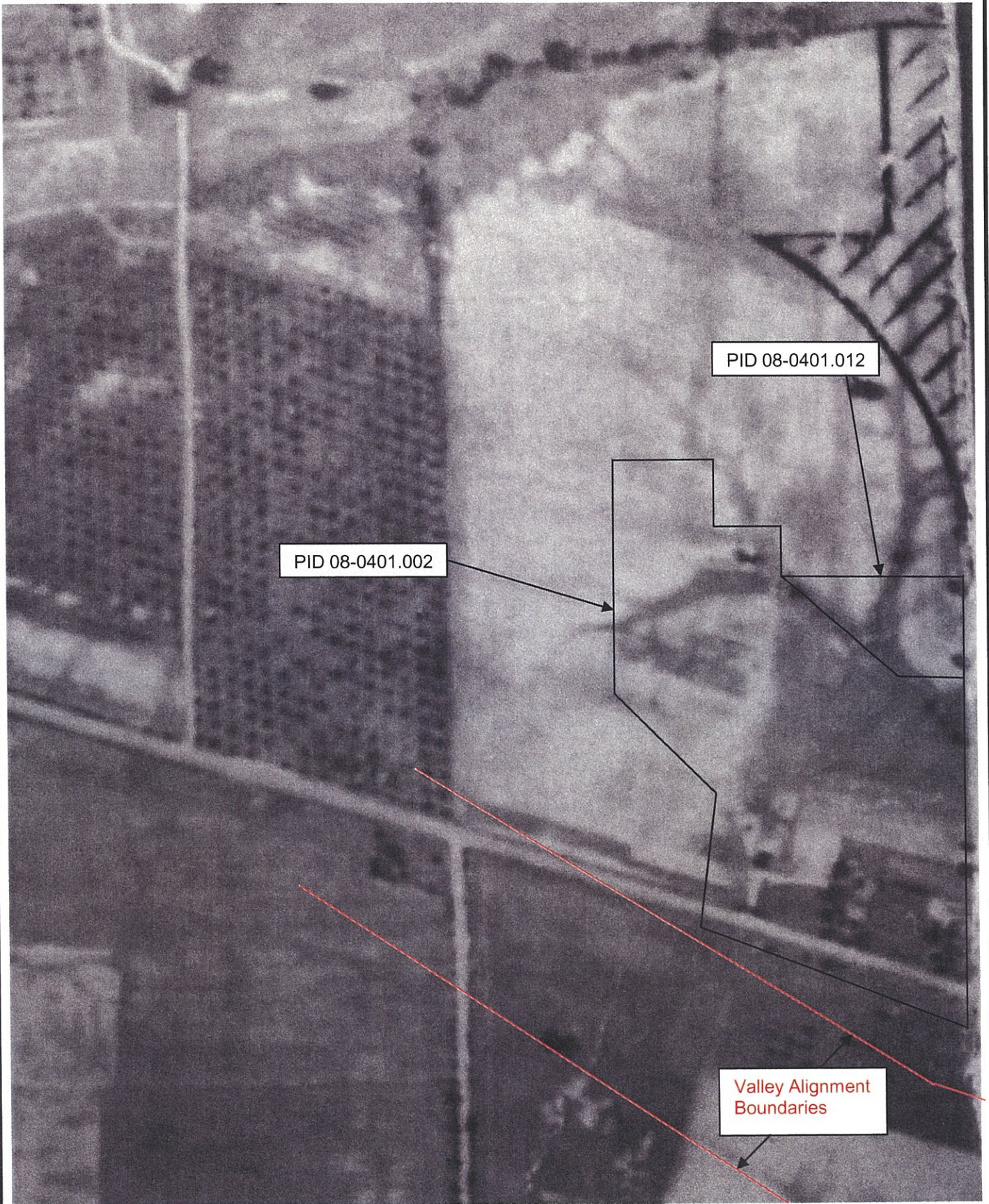
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Valley Alignment
Boundaries



1951 Aerial Photograph
Turner & Keller's Collision Property
SCI-823-0.00, PID 19415
Portsmouth Bypass Project
SCIOTO COUNTY, OHIO

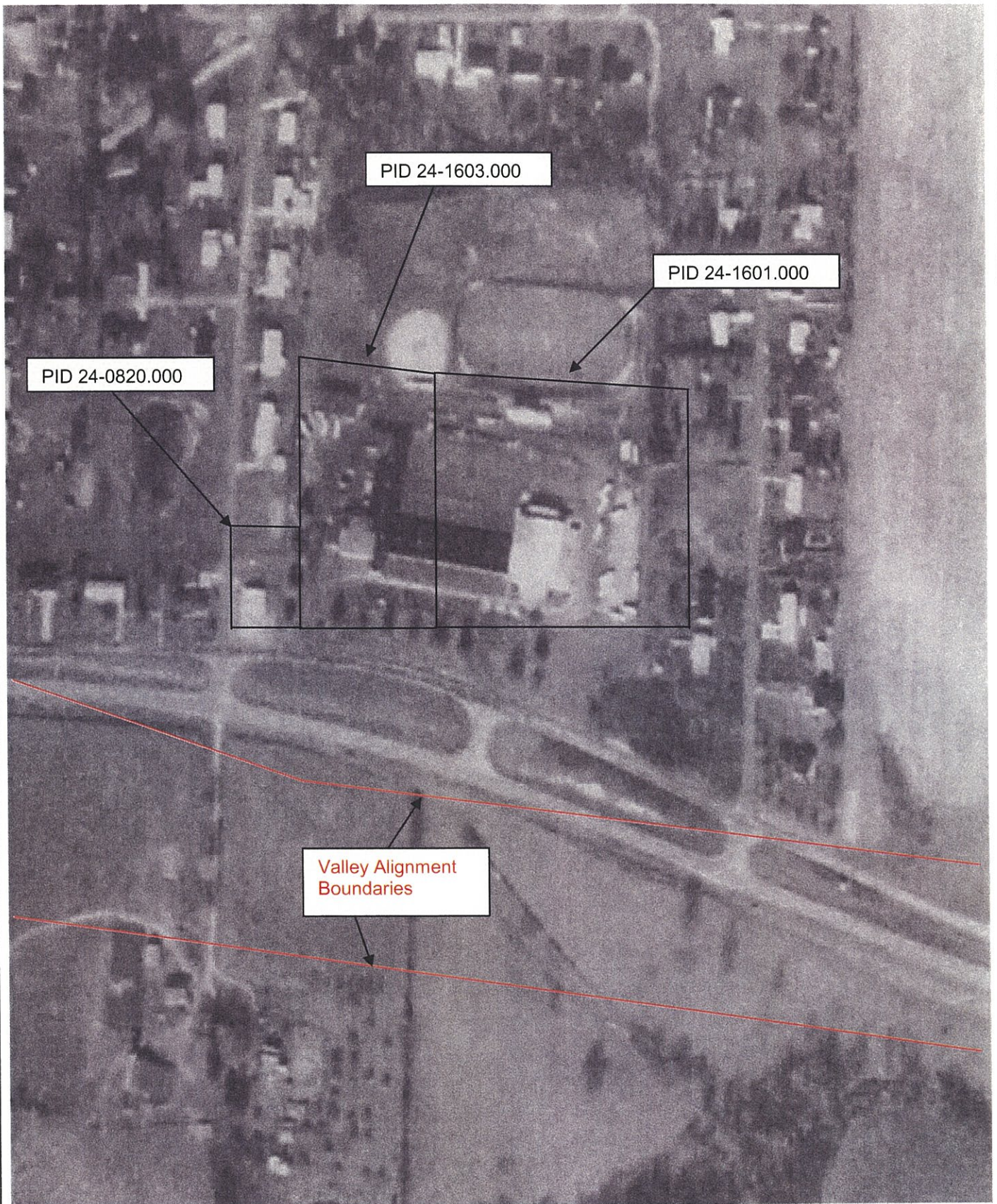
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TRANSYSTEMS
CORPORATION

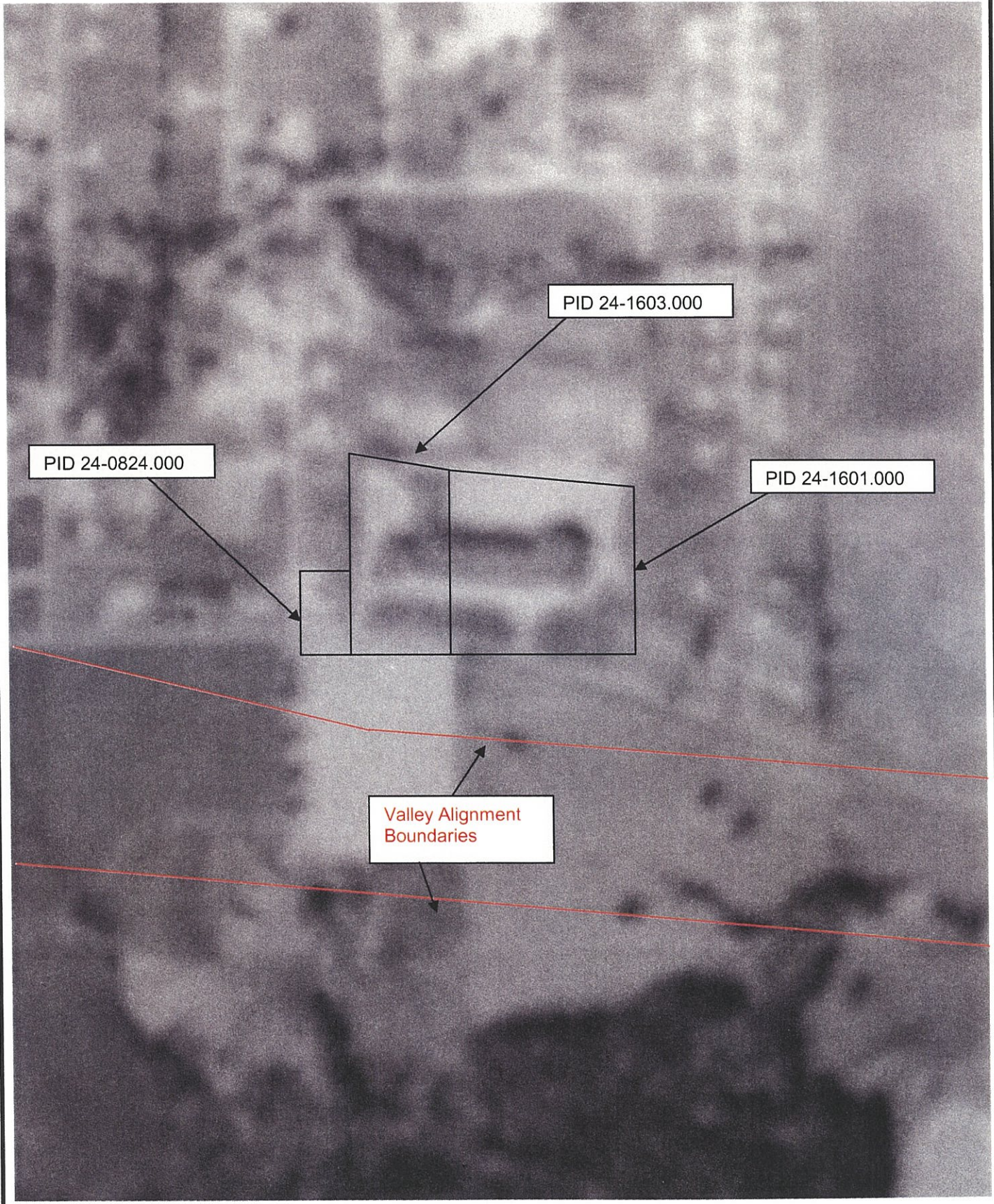
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SCI-823-0.00, PID 19415
Portsmouth Bypass Project
SCIOTO COUNTY, OHIO

Project No.:
P403020102



1981 Aerial Photograph
Valley Schools & Harwood's Gas & Snack
SCI-823-0.00, PID 19415
Portsmouth Bypass Project
SCIOTO COUNTY, OHIO

Project No.:
P403020102



PID 24-0824.000

PID 24-1603.000

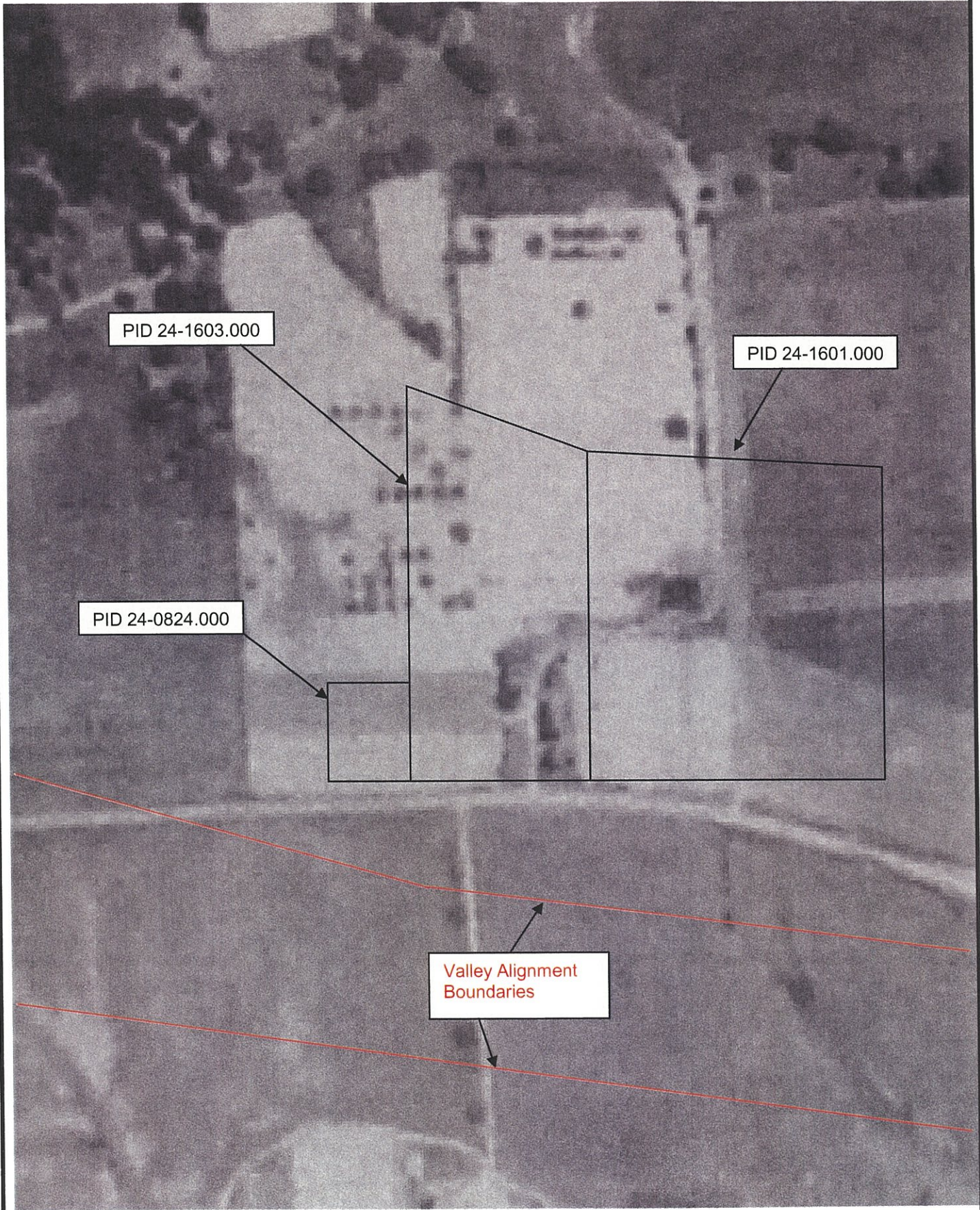
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Valley Alignment Boundaries



1966 Aerial Photograph
Valley Schools & Harwood's Gas & Snack
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Portsmouth Bypass Project
SCIOTO COUNTY, OHIO

Project No.:
P403020102



PID 24-1603.000

PID 24-1601.000

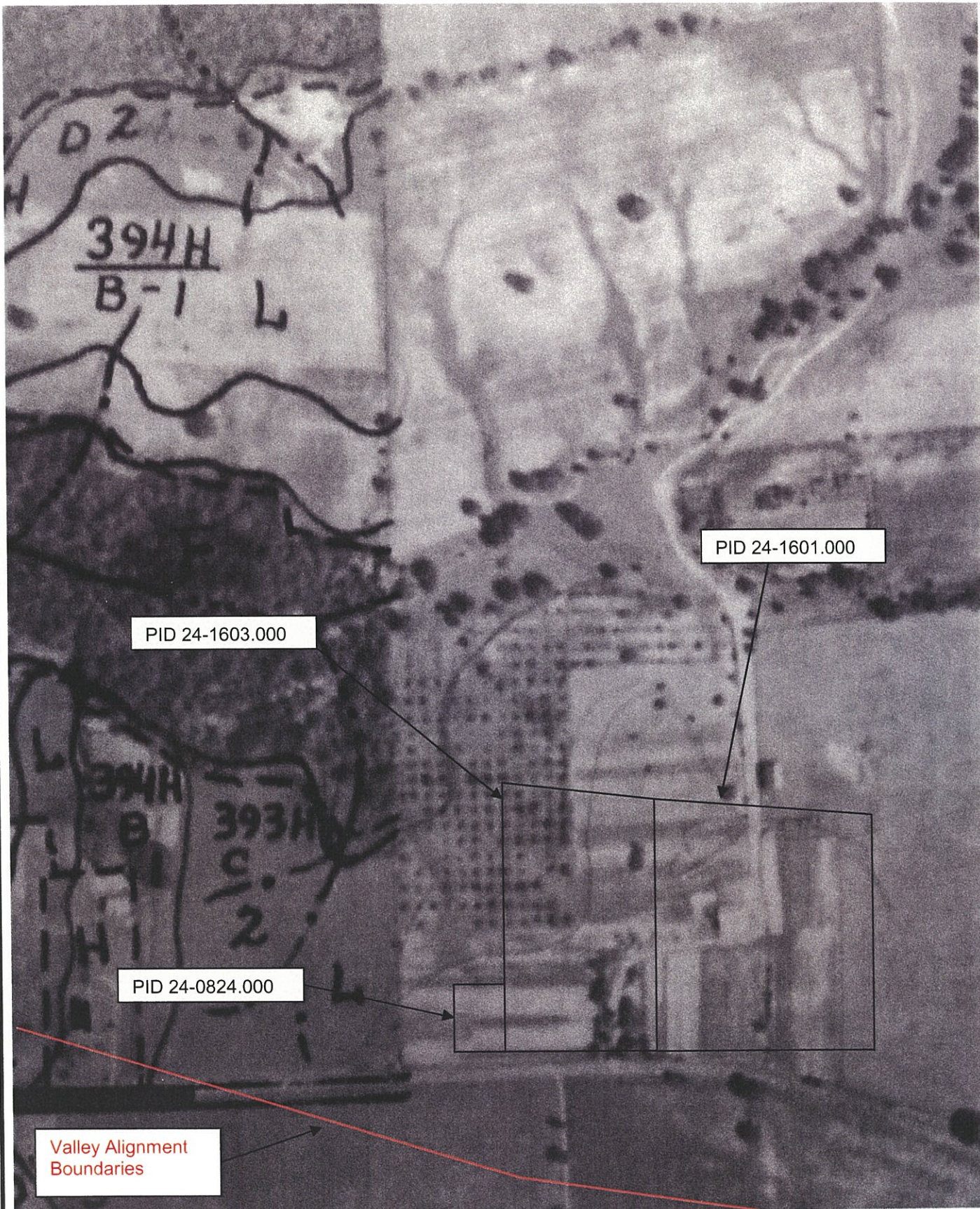
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Valley Alignment
Boundaries



1951 Aerial Photograph
Valley Schools & Harwood's Gas & Snack
SCI-823-0.00, PID 19415
Portsmouth Bypass Project
SCIOTO COUNTY, OHIO

Project No.:
P403020102



Valley Alignment
Boundaries

PID 24-1603.000

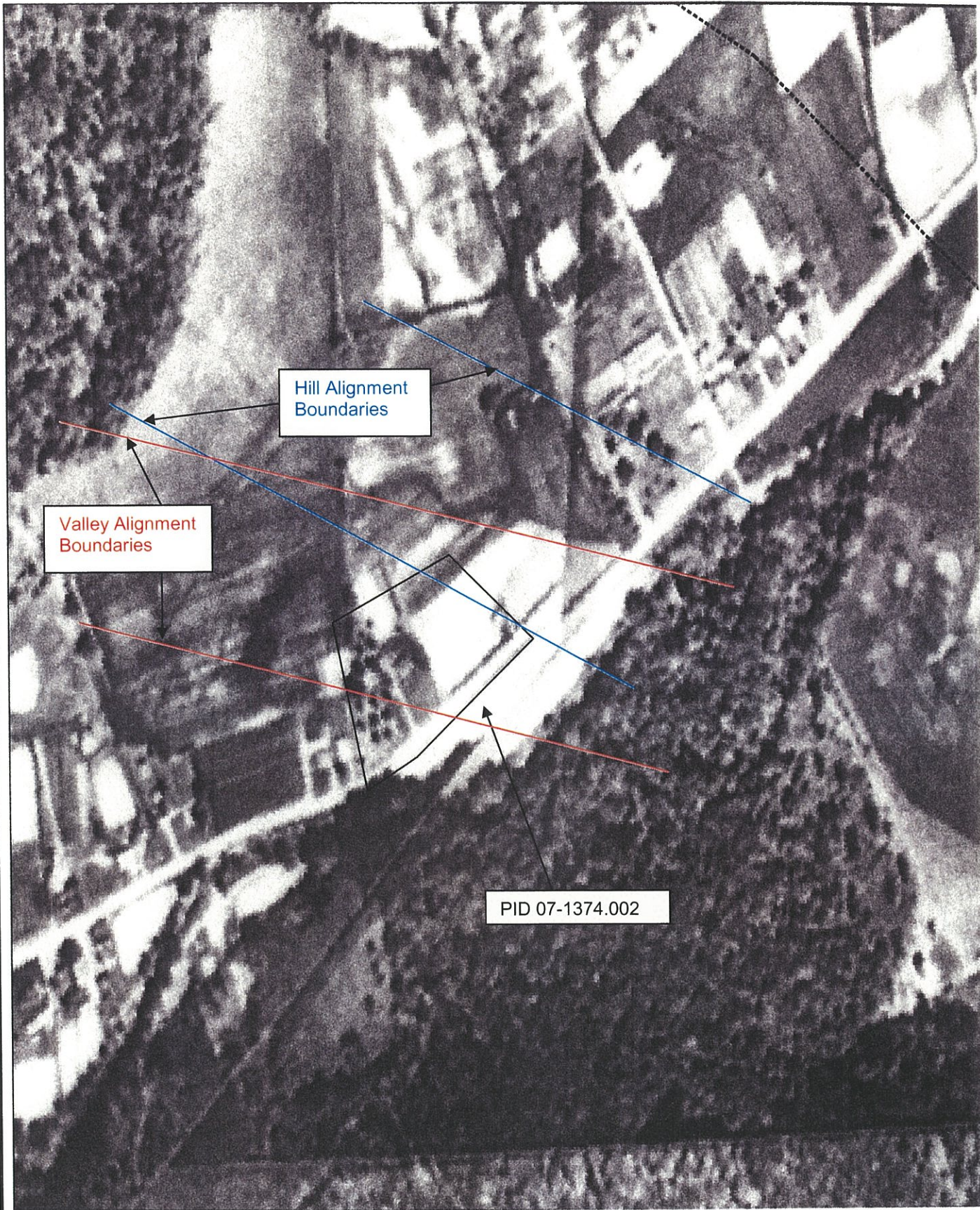
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PID 24-0824.000



1939 Aerial Photograph
Valley Schools & Harwood's Gas & Snack
SCI-823-0.00, PID 19415
Portsmouth Bypass Project
SCIOTO COUNTY, OHIO

Project No.:
P403020102



Hill Alignment Boundaries

Valley Alignment Boundaries

PID 07-1374.002



1960 Aerial Photograph
Trowbridge Property
SCI-823-0.00, PID 19415
Portsmouth Bypass Project
SCIOTO COUNTY, OHIO

Project No.:
P403020102



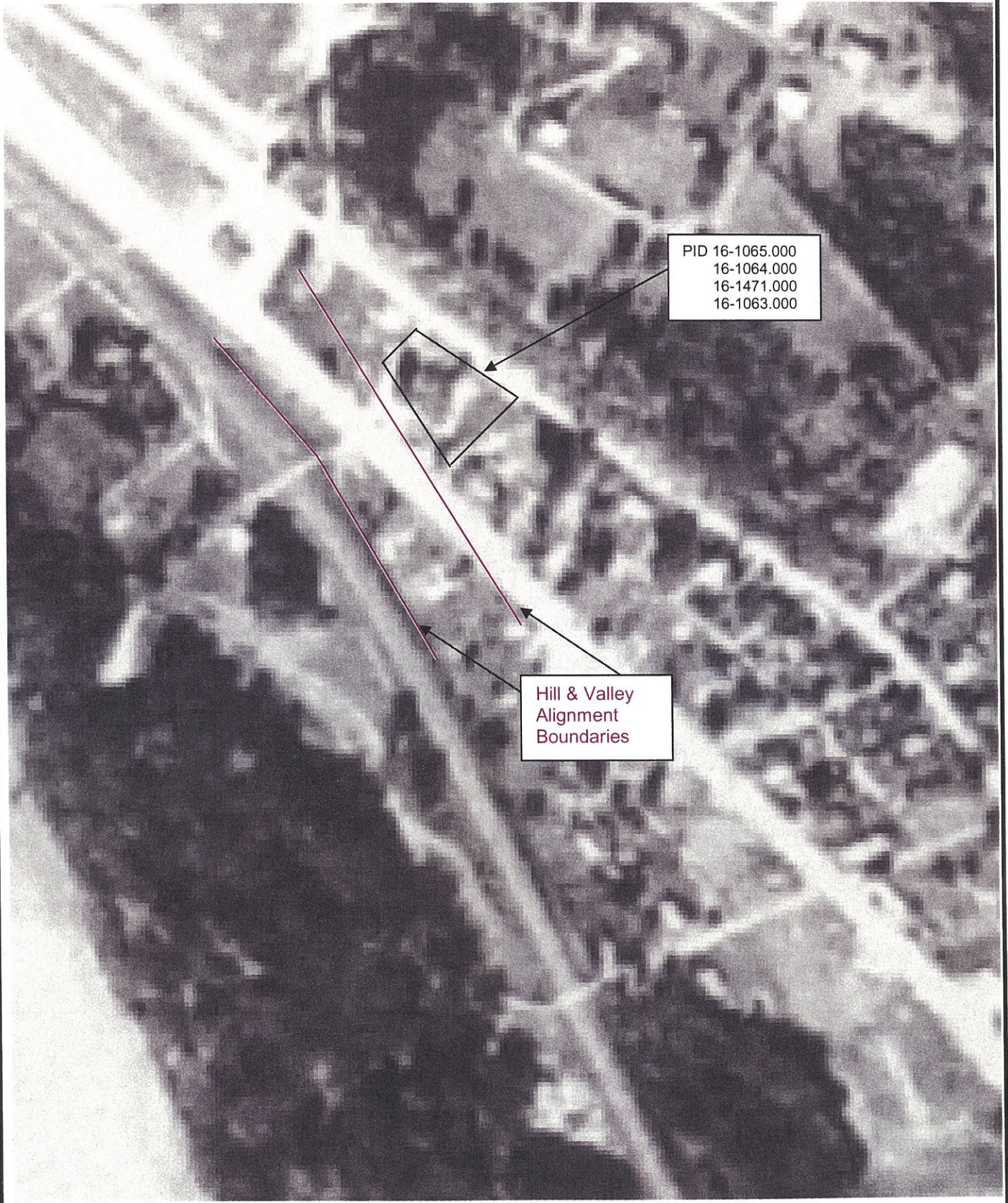
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16-1471.000
16-1063.000

Hill & Valley
Alignment
Boundaries



1981 Aerial Photograph
Buster's Bi-Lo Property
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Portsmouth Bypass Project
SCIOTO COUNTY, OHIO

Project No.:
P403020102



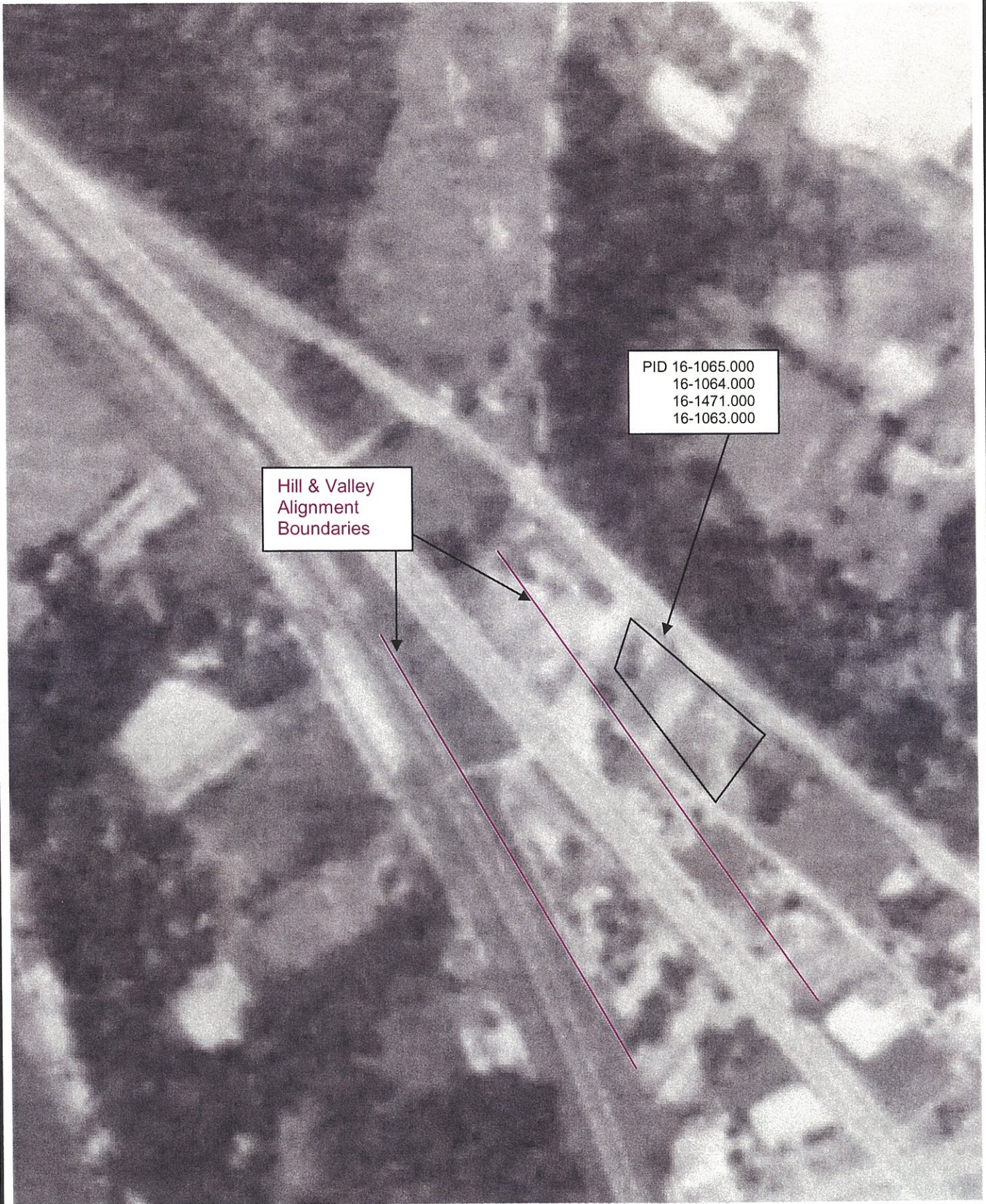
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Hill & Valley
Alignment
Boundaries

TRANSYSTEMS
CORPORATION

1966 Aerial Photograph
Buster's Bi-Lo Property
SCI-823-0.00, PID 19415
Portsmouth Bypass Project
SCIOTO COUNTY, OHIO

Project No.:
P403020102



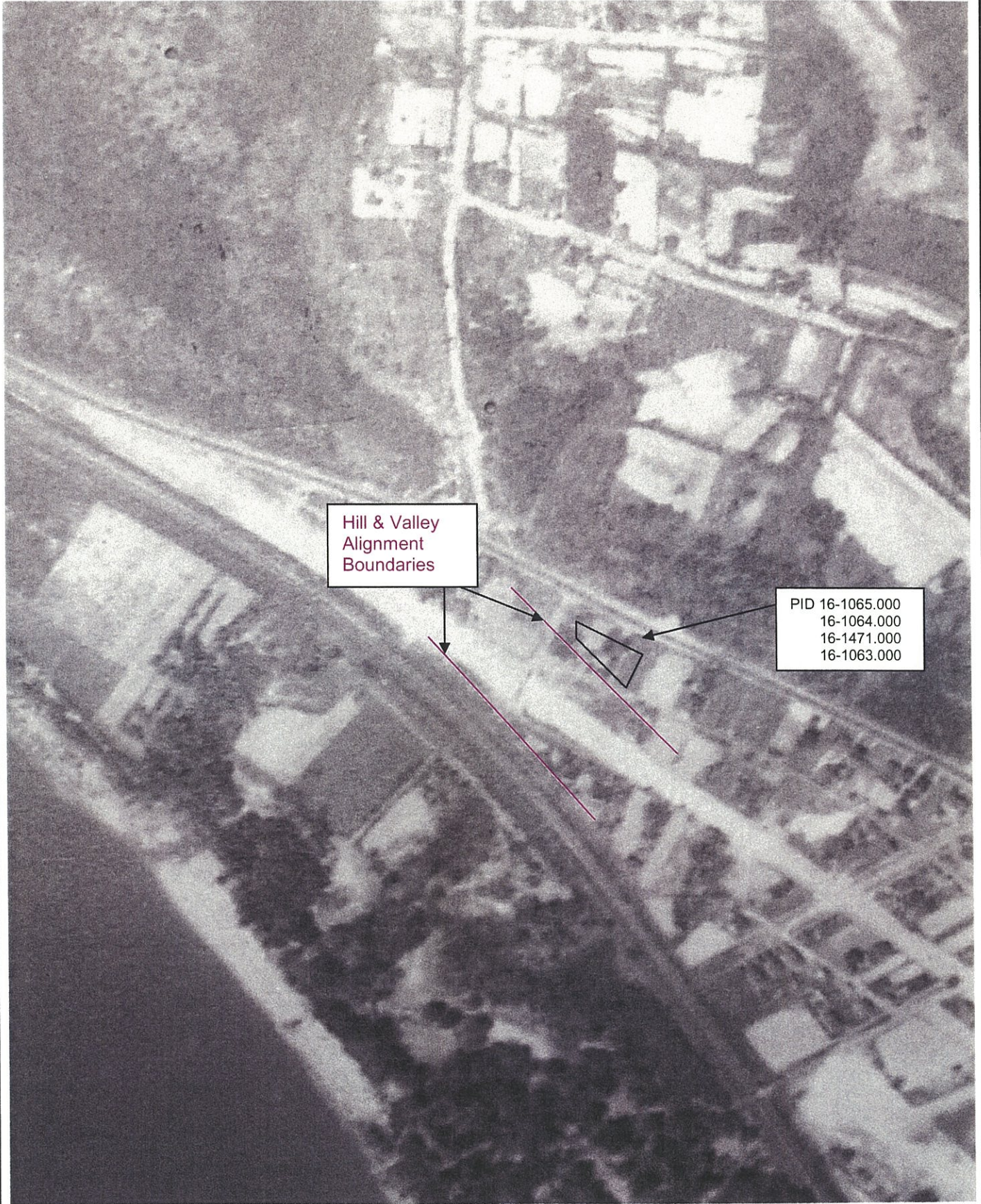
Hill & Valley
Alignment
Boundaries

PID 16-1065.000
16-1064.000
16-1471.000
16-1063.000



1951 Aerial Photograph
Buster's Bi-Lo Property
SCI-823-0.00, PID 19415
Portsmouth Bypass Project
SCIOTO COUNTY, OHIO

Project No.:
P403020102



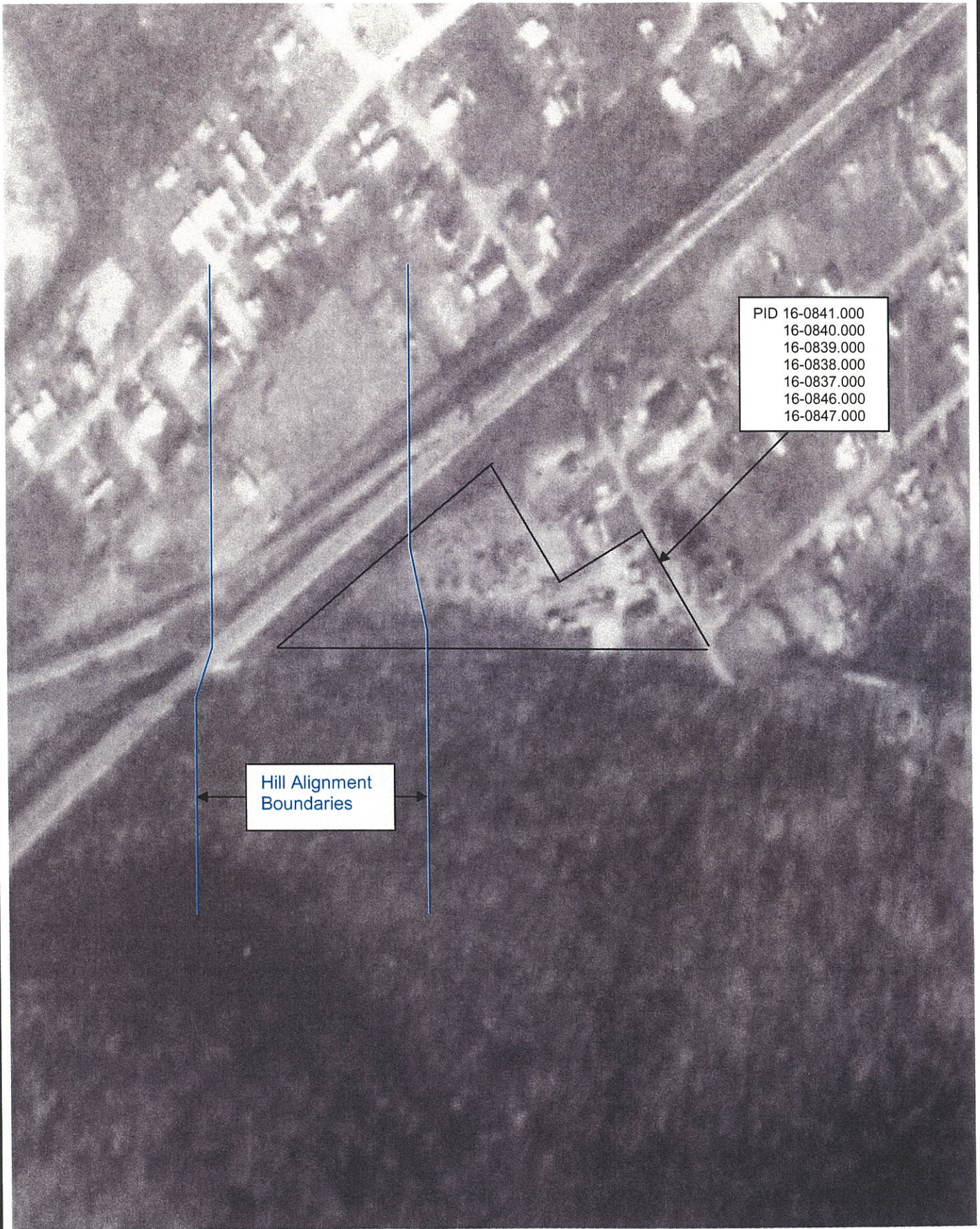
Hill & Valley
Alignment
Boundaries

PID 16-1065.000
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16-1471.000
16-1063.000



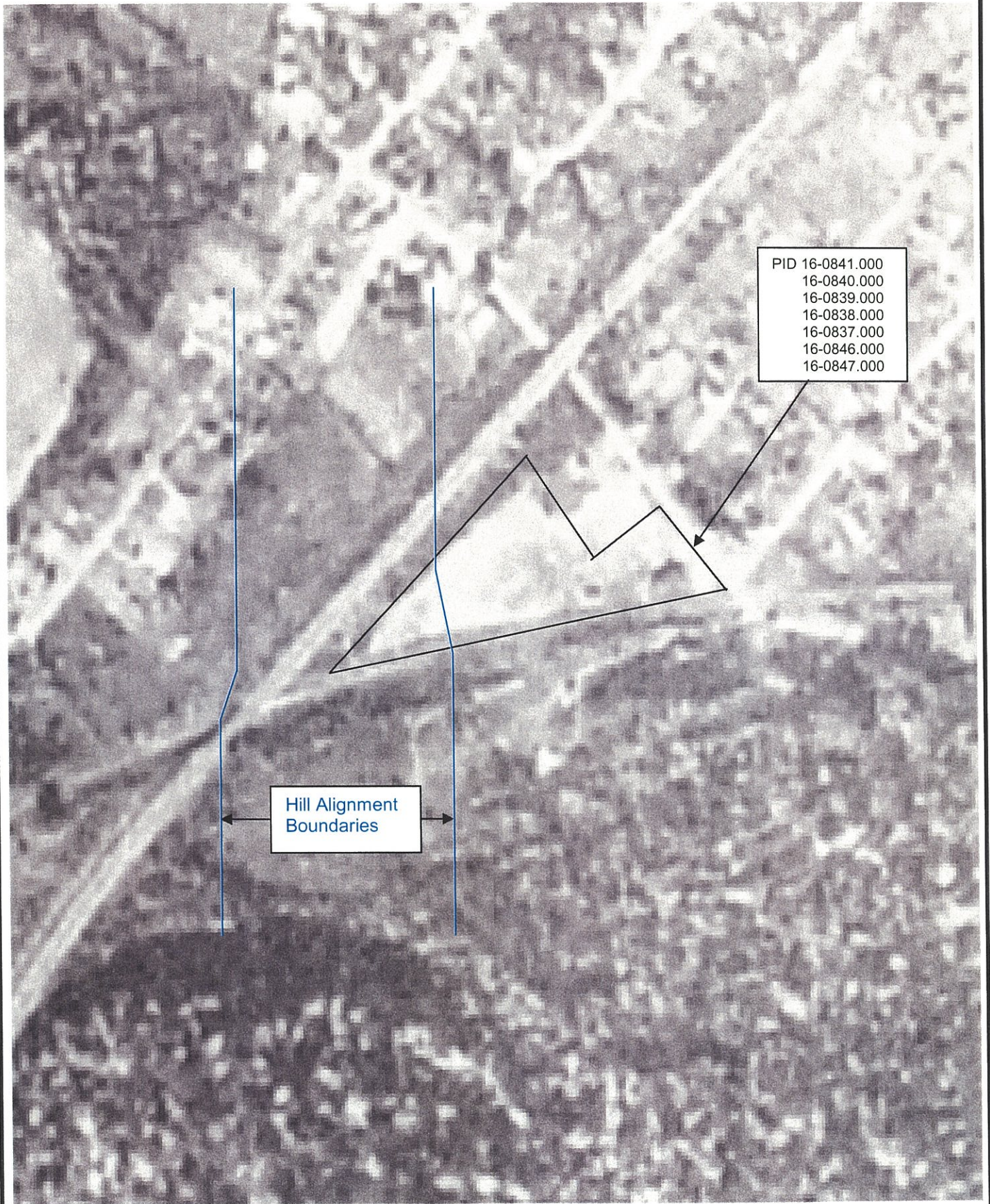
1939 Aerial Photograph
Buster's Bi-Lo Property
SCI-823-0.00, PID 19415
Portsmouth Bypass Project
SCIOTO COUNTY, OHIO

Project No.:
P403020102



PID 16-0841.000
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16-0846.000
16-0847.000

Hill Alignment
Boundaries



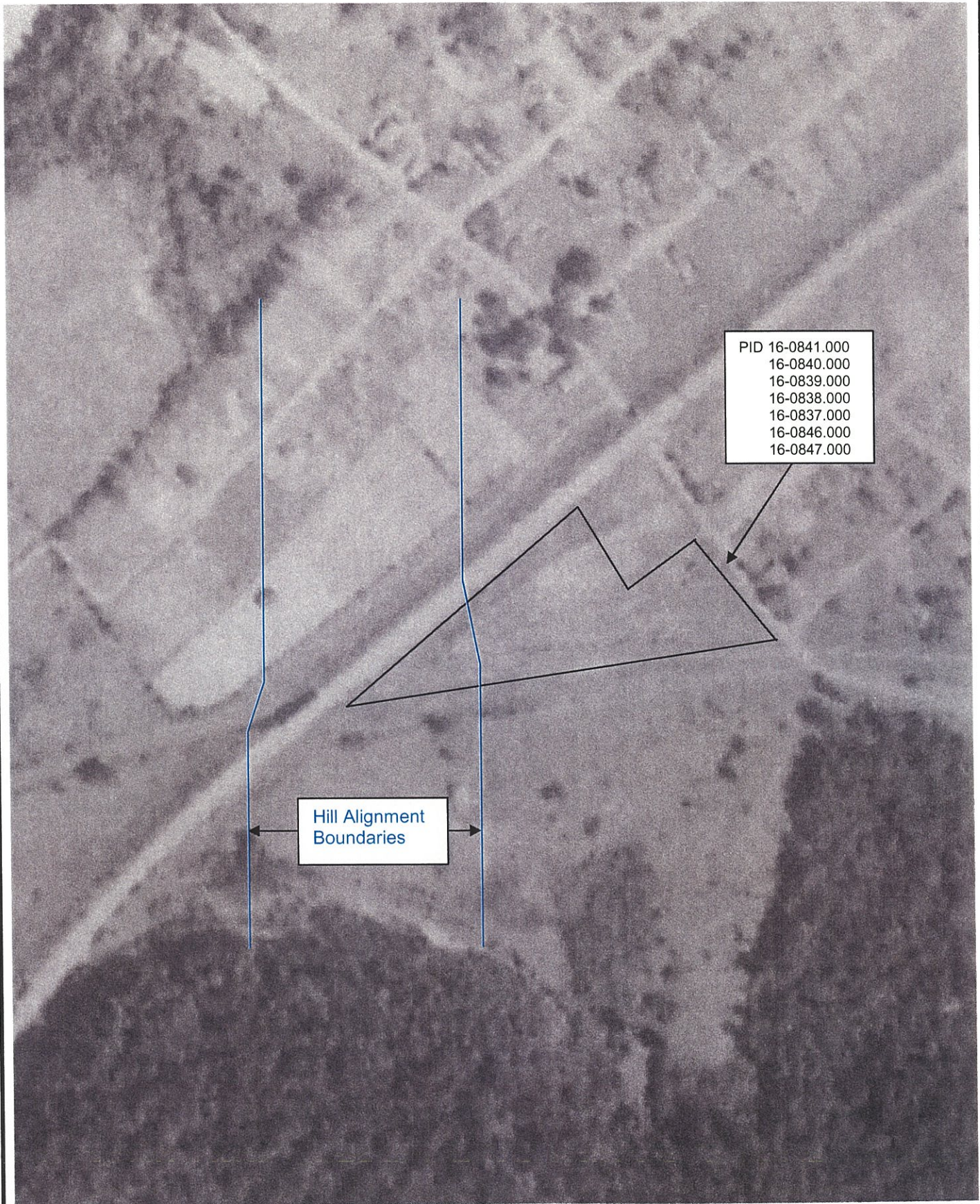
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16-0847.000

Hill Alignment
Boundaries



1966 Aerial Photograph
McGuire Property
SCI-823-0.00, PID 19415
Portsmouth Bypass Project
SCIOTO COUNTY, OHIO

Project No.:
P403020102



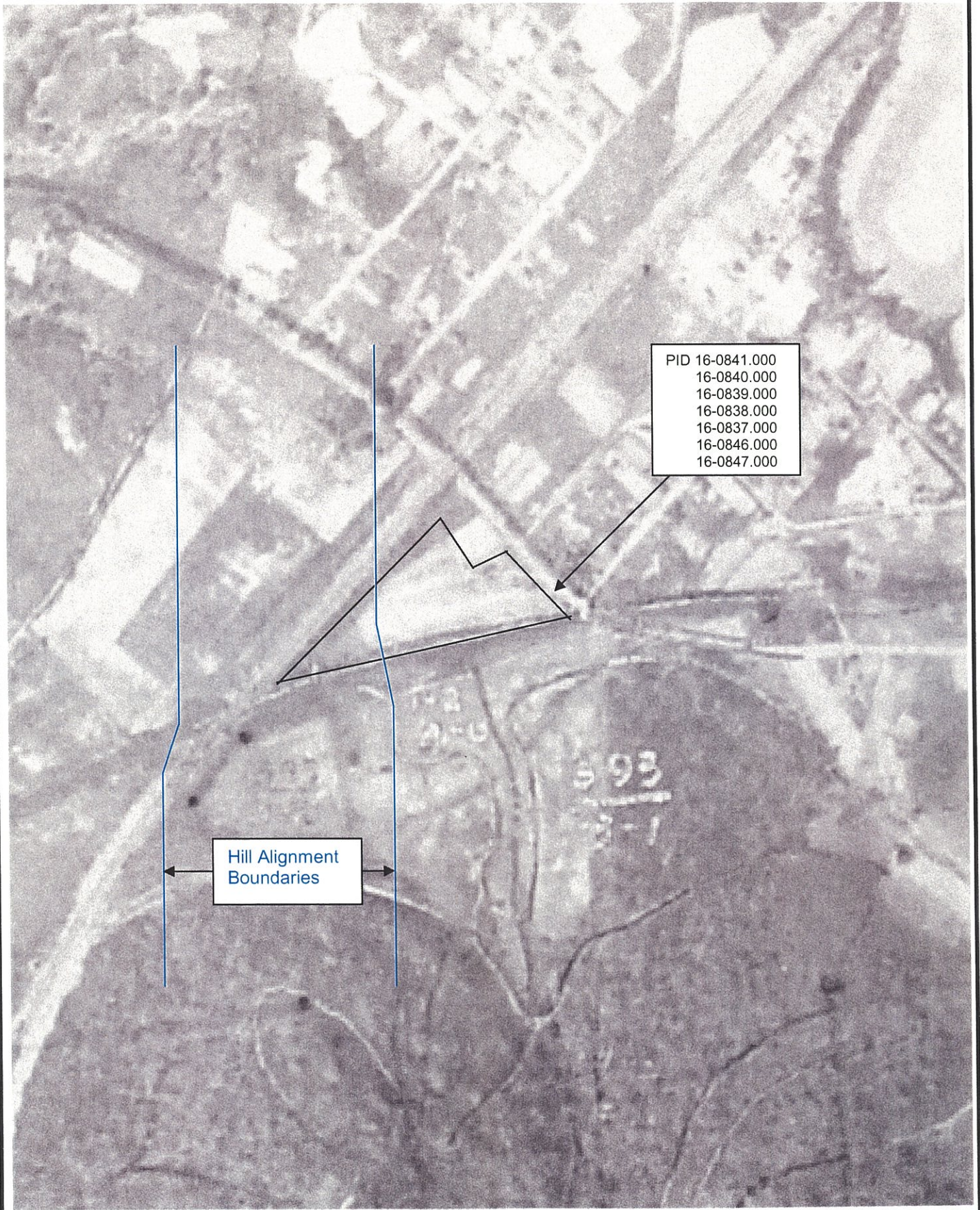
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16-0847.000

Hill Alignment
Boundaries



1951 Aerial Photograph
McGuire Property
SCI-823-0.00, PID 19415
Portsmouth Bypass Project
SCIOTO COUNTY, OHIO

Project No.:
P403020102



PID 16-0841.000
16-0840.000
16-0839.000
16-0838.000
16-0837.000
16-0846.000
16-0847.000

Hill Alignment
Boundaries

**APPENDIX H –
PHOTOGRAPHIC LOG**





Photo 1. View looking northeast from the southwest corner of the Keller property.

(PID 08-0401.012)



Photo 2. View looking south from the northeast corner of the Keller property.

(PID 08-0401.012)

SCI-823-0.00, PID 19415

Portsmouth Bypass Project

Scioto County, Ohio

Phase I ESA Photo Log

TRANSYSTEMS
CORPORATION

Photographer:
S. Stewart

Date of Photograph:
April 3, 2003

Date:
31 July, 2003



Photo 3. View looking west from the northeast corner of the Keller property.

(PID 08-0401.012)



Photo 4. View looking at the rear of Kellers Collision building.

(PID 08-0401.012)

SCI-823-0.00, PID 19415

Portsmouth Bypass Project
Scioto County, Ohio

Phase I ESA Photo Log

TRANSYSTEMS
CORPORATION

Photographer:
S. Stewart

Date of Photograph:
April 3, 2003

Date:
31 July, 2003



Photo 5. View looking southwest from the central portion of the Keller property.

(PID 08-0401.012)



Photo 6. View looking northeast at Terry Turners property from the southwest corner.

(PID 08-0401.002)

SCI-823-0.00, PID 19415

Portsmouth Bypass Project

Scioto County, Ohio

Phase I ESA Photo Log



Photographer:
S. Stewart

Date of Photograph:
April 3, 2003

Date:
31 July, 2003



Photo 7. View looking at the rear of the auto repair garage located on Terry Turners property from the northern property boundary.

(PID 08-0401.002)



Photo 8. View looking south along the western property boundary on Terry Turners property from the northern property boundary.

(PID 08-0401.002)

SCI-823-0.00, PID 19415

Portsmouth Bypass Project

Scioto County, Ohio

Phase I ESA Photo Log

TRANSYSTEMS
CORPORATION

Photographer:
S. Stewart

Date of Photograph:
April 3, 2003

Date:
31 July, 2003



Photo 9. View looking north at the former dairy barn/residential structure and along the western property boundary on Terry Turners property from the southwest corner.

(PID 08-0401.002)



Photo 10. View of spring area with wetland vegetation located on the northwest portion of the Terry Turner property.

(PID 08-0401.002)

SCI-823-0.00, PID 19415

Portsmouth Bypass Project

Scioto County, Ohio

Phase I ESA Photo Log

TRANSYSTEMS
CORPORATION

Photographer:
S. Stewart

Date of Photograph:
April 3, 2003

Date:
31 July, 2003



Photo 11. View looking west along the southern property boundary (State Route 728) on Terry Turners property from the southeast corner.

(PID 08-0401.002)



Photo 12. View looking at concrete debris located on the Turner property.

(PID 08-0401.002)

SCI-823-0.00, PID 19415

Portsmouth Bypass Project

Scioto County, Ohio

Phase I ESA Photo Log

TRANSYSTEMS
CORPORATION

Photographer:
S. Stewart

Date of Photograph:
April 3, 2003

Date:
31 July, 2003



Photo 13. View looking south at the rear of the buildings and junk automobiles located on the Turner property.

(PID 08-0401.002)

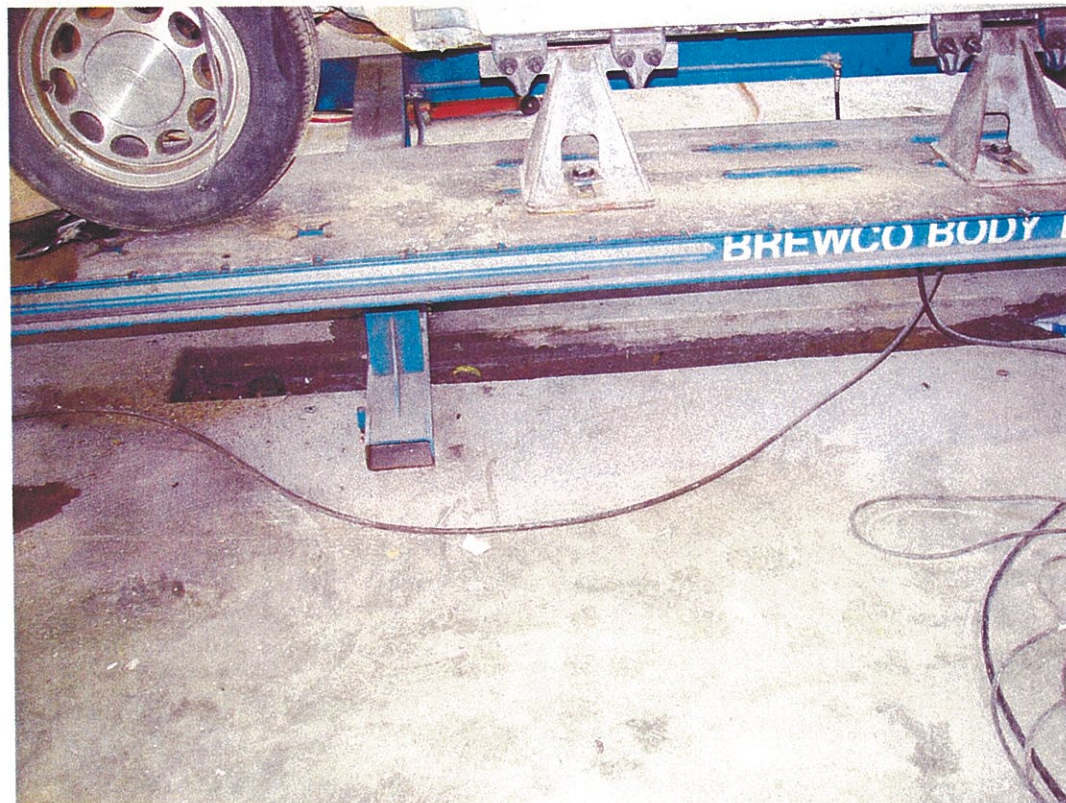


Photo 14. View looking at the trench drains located in the auto repair building on the Turner property.

(PID 08-0401.002)

SCI-823-0.00, PID 19415

Portsmouth Bypass Project

Scioto County, Ohio

Phase I ESA Photo Log

TRANSYSTEMS
CORPORATION

Photographer:
S. Stewart

Date of Photograph:
April 3, 2003

Date:
31 July, 2003



Photo 15. View of paints, solvents, waste solvents and lubricants located in the auto repair building.

(PID 08-0401.002)



Photo 16. View of lubricants located in the auto repair building.

(PID 08-0401.002)

SCI-823-0.00, PID 19415

Portsmouth Bypass Project

Scioto County, Ohio

Phase I ESA Photo Log

TRANSYSTEMS
CORPORATION

Photographer:
S. Stewart

Date of Photograph:
April 3, 2003

Date:
31 July, 2003



Photo 17. View looking at the area that the trench drains discharge onto the ground surface.

(PID 08-0401.002)



Photo 18. View looking at the area that the trench drains discharge onto the ground surface.

(PID 08-0401.002)

SCI-823-0.00, PID 19415

Portsmouth Bypass Project

Scioto County, Ohio

Phase I ESA Photo Log

TRANSYSTEMS
CORPORATION

Photographer:
S. Stewart

Date of Photograph:
April 3, 2003

Date:
31 July, 2003



Photo 19. View looking at the area that the trench drains discharge onto the ground surface.

(PID 08-0401.002)



Photo 20. View looking southwest at the eastern portion of the McGuire property.

(PID 16-0845.000, 16-0846.000 & 16-0847.000)

SCI-823-0.00, PID 19415

Portsmouth Bypass Project

Scioto County, Ohio

Phase I ESA Photo Log

TRANSYSTEMS
CORPORATION

Photographer:
S. Stewart

Date of Photograph:
April 3, 2003

Date:
31 July, 2003



Photo 21. View looking at the central portion of the McGuire property.

(PID 16-0840.000 & 16-0841.000)



Photo 22. View looking at the central portion of the McGuire property.

(PID 16-0845.000, 16-0840 & 16-0841.000)

SCI-823-0.00, PID 19415

Portsmouth Bypass Project

Scioto County, Ohio

Phase I ESA Photo Log



Photographer:
S. Stewart

Date of Photograph:
April 3, 2003

Date:
31 July, 2003



Photo 23. View looking at the barn storage area (former creosote dipping pit area) located on the southern portion of the McGuire property.

(PID 16-0840.000)



Photo 24. View looking at used tires located on the McGuire property.

(PID 16-0839.000)

SCI-823-0.00, PID 19415

Portsmouth Bypass Project

Scioto County, Ohio

Phase I ESA Photo Log

TRANSYSTEMS
CORPORATION

Photographer:
S. Stewart

Date of Photograph:
April 3, 2003

Date:
31 July, 2003



Photo 25. View looking at used tires and other used materials located on the McGuire property.

(PID 16-0837.000, 16-0838.000, 16-0839.000 & 16-0840.000)



Photo 26. View looking at used tires located on the McGuire property.

(PID 16-0837.000)

SCI-823-0.00, PID 19415

Portsmouth Bypass Project

Scioto County, Ohio

Phase I ESA Photo Log



Photographer:
S. Stewart

Date of Photograph:
April 3, 2003

Date:
31 July, 2003



Photo 27. View looking east along the driveway on the McGuire property.

(PID 16-0841.000 & 16-0845.000)



Photo 28. View looking at used petroleum drums located on the McGuire property.

(PID 16-0845.000)

SCI-823-0.00, PID 19415

Portsmouth Bypass Project
Scioto County, Ohio

Phase I ESA Photo Log



Photographer:
S. Stewart

Date of Photograph:
April 3, 2003

Date:
31 July, 2003

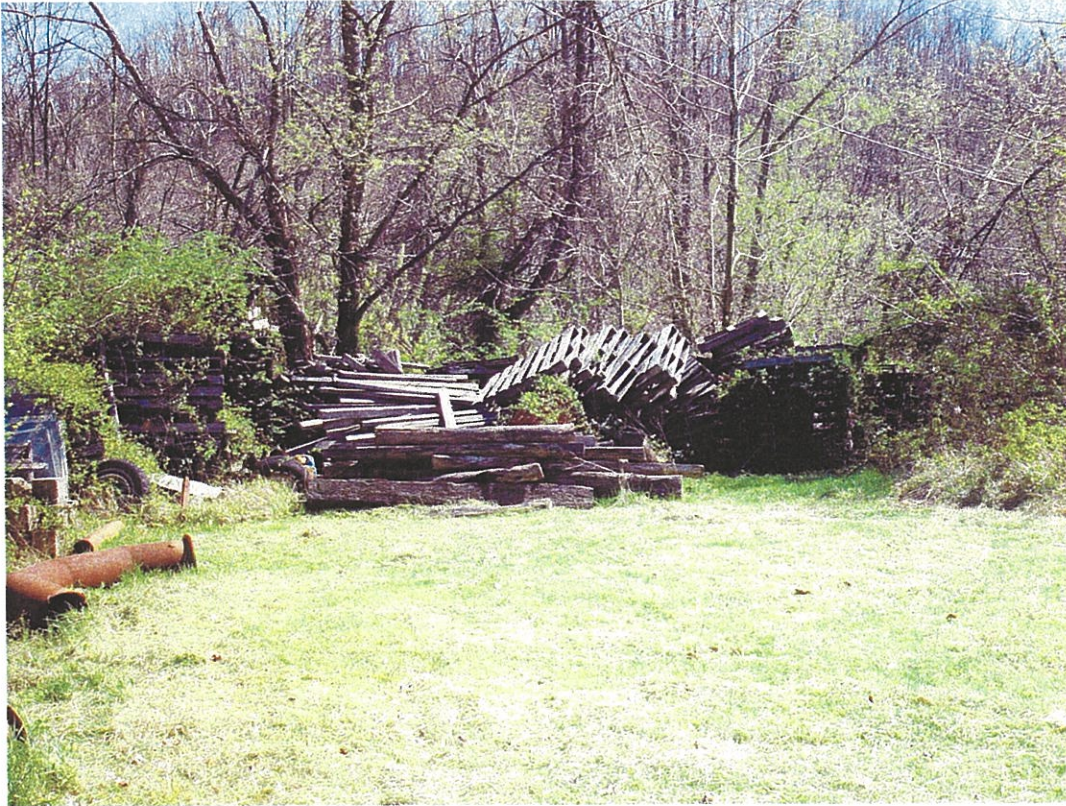


Photo 29. View looking at old wood products located on the McGuire property.

(PID 16-0847.000)



Photo 30. View looking at the storage shed located on the McGuire property.

(PID 16-0846.000)

SCI-823-0.00, PID 19415

Portsmouth Bypass Project

Scioto County, Ohio

Phase I ESA Photo Log

TRANSYSTEMS
CORPORATION

Photographer:
S. Stewart

Date of Photograph:
April 3, 2003

Date:
31 July, 2003



Photo 31. View of the Harwood's gasoline station property, looking northeast from the southwest corner.

(PID 24-0824.000)



Photo 32. View of the Harwood's gasoline station property, looking north from the southwest corner.

(PID 24-0824.000)

SCI-823-0.00, PID 19415

Portsmouth Bypass Project

Scioto County, Ohio

Phase I ESA Photo Log

TRANSYSTEMS
CORPORATION

Photographer:
S. Stewart

Date of Photograph:
April 11, 2003

Date:
31 July, 2003



Photo 33. View of the Harwood's gasoline station property, looking north from the southwest corner.

(PID 24-0824.000)



Photo 34. View of the Harwood's gasoline station property, looking east from the northwest corner.

(PID 24-0824.000)

SCI-823-0.00, PID 19415

Portsmouth Bypass Project

Scioto County, Ohio

Phase I ESA Photo Log

TRANSYSTEMS
CORPORATION

Photographer:
S. Stewart

Date of Photograph:
April 11, 2003

Date:
31 July, 2003



Photo 35. View of the Harwood's gasoline station property, looking south from the northeast corner.

(PID 24-0824.000)



Photo 36. View of the patched pavement located on the eastern portion of the Harwood's gasoline station property.

(PID 24-0824.000)

SCI-823-0.00, PID 19415

Portsmouth Bypass Project

Scioto County, Ohio

Phase I ESA Photo Log

TRANSYSTEMS
CORPORATION

Photographer:
S. Stewart

Date of Photograph:
April 11, 2003

Date:
31 July, 2003



Photo 37. View of a former drain located on the eastern portion of the Harwood's gasoline station property.

(PID 24-0824.000)



Photo 38. View of the Valley Middle School LUST property looking north along the eastern property border.

(PID 24-1603.000)

SCI-823-0.00, PID 19415

Portsmouth Bypass Project

Scioto County, Ohio

Phase I ESA Photo Log



Photographer:
S. Stewart

Date of Photograph:
April 11, 2003

Date:
31 July, 2003



Photo 39. View of the Valley Middle School LUST property looking west along the southern property border (Indian Drive).

(PID 24-1603.000)



Photo 40. View of the Valley Middle School LUST property looking north along the western property border.

(PID 24-1603.000)

SCI-823-0.00, PID 19415

Portsmouth Bypass Project

Scioto County, Ohio

Phase I ESA Photo Log

TRANSYSTEMS
CORPORATION

Photographer:
S. Stewart

Date of Photograph:
April 11, 2003

Date:
31 July, 2003



Photo 41. View of the Valley Middle School LUST property looking south along the western property border.

(PID 24-1603.000)



Photo 42. View of the Valley Middle School LUST property looking west along the northern portion of the property.

(PID 24-1603.000)

SCI-823-0.00, PID 19415

Portsmouth Bypass Project

Scioto County, Ohio

Phase I ESA Photo Log



Photographer:
S. Stewart

Date of Photograph:
April 11, 2003

Date:
31 July, 2003

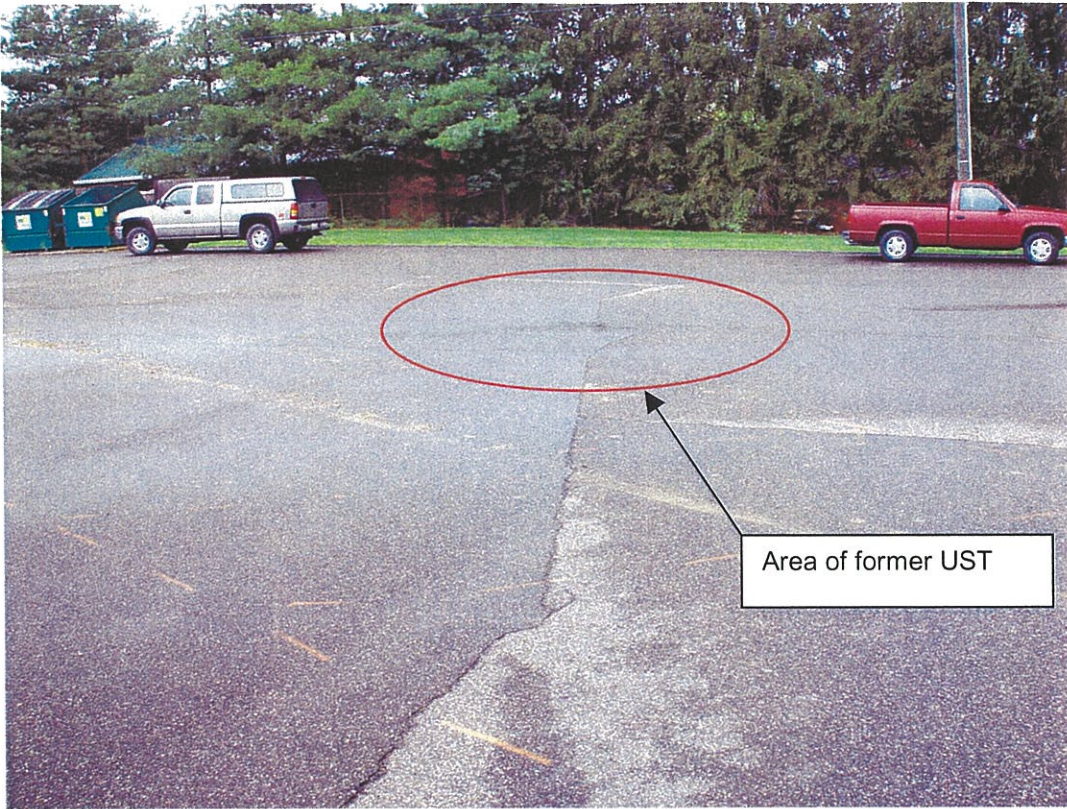


Photo 43. View of the Valley Middle School LUST property looking at the area that the former UST area.

(PID 24-1603.000)



Photo 44. View of the Valley Middle School LUST property looking at the storm drain.

(PID 24-1603.000)

SCI-823-0.00, PID 19415

Portsmouth Bypass Project

Scioto County, Ohio

Phase I ESA Photo Log

TRANSYSTEMS
CORPORATION

Photographer:
S. Stewart

Date of Photograph:
April 11, 2003

Date:
31 July, 2003



Photo 45. View of the Buster's Bi-Lo property looking east.

(PID 16-1471.000)



Photo 46. View of the Buster's Bi-Lo property looking northwest.

(PID 16-1471.000)

SCI-823-0.00, PID 19415

Portsmouth Bypass Project

Scioto County, Ohio

Phase I ESA Photo Log

TRANSYSTEMS
CORPORATION

Photographer:
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Date of Photograph:
April 11, 2003

Date:
31 July, 2003

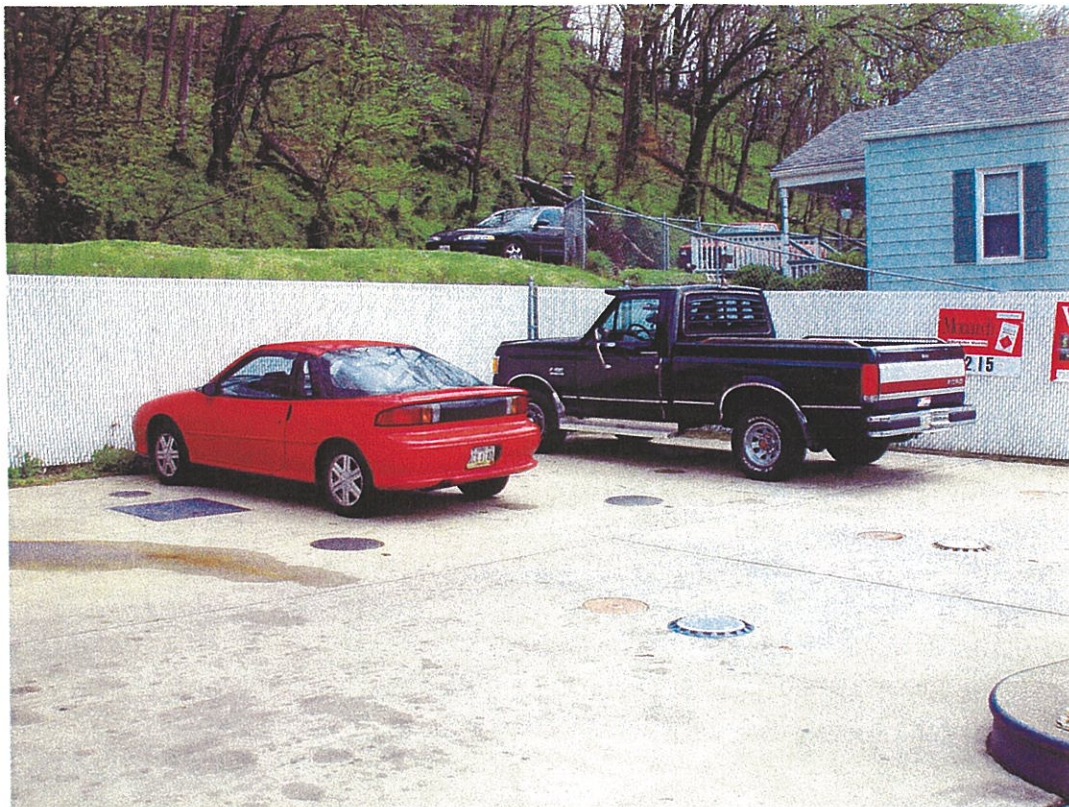


Photo 47. View of the Buster's Bi-Lo property UST system location.

(PID 16-1471.000)



Photo 48. View looking east at the Buster's Bi-Lo property UST system and fuel island location.

(PID 16-1471.000)

SCI-823-0.00, PID 19415

Portsmouth Bypass Project

Scioto County, Ohio

Phase I ESA Photo Log

TRANSYSTEMS
CORPORATION

Photographer:
S. Stewart

Date of Photograph:
April 11, 2003

Date:
31 July, 2003



Photo 49. View looking west along SR 728 (southern property boundary) from the southeast corner of the Trowbridge property.

(PID 07-1374.002)



Photo 50. View looking north along the eastern property boundary from the southeast corner of the Trowbridge property.

(PID 07-1374.002)

SCI-823-0.00, PID 19415

Portsmouth Bypass Project

Scioto County, Ohio

Phase I ESA Photo Log



Photographer:
S. Stewart

Date of Photograph:
July 17, 2003

Date:
31 July, 2003



Photo 51. View looking west along the northern property boundary from the northeast corner of the Trowbridge property.

(PID 07-1374.002)

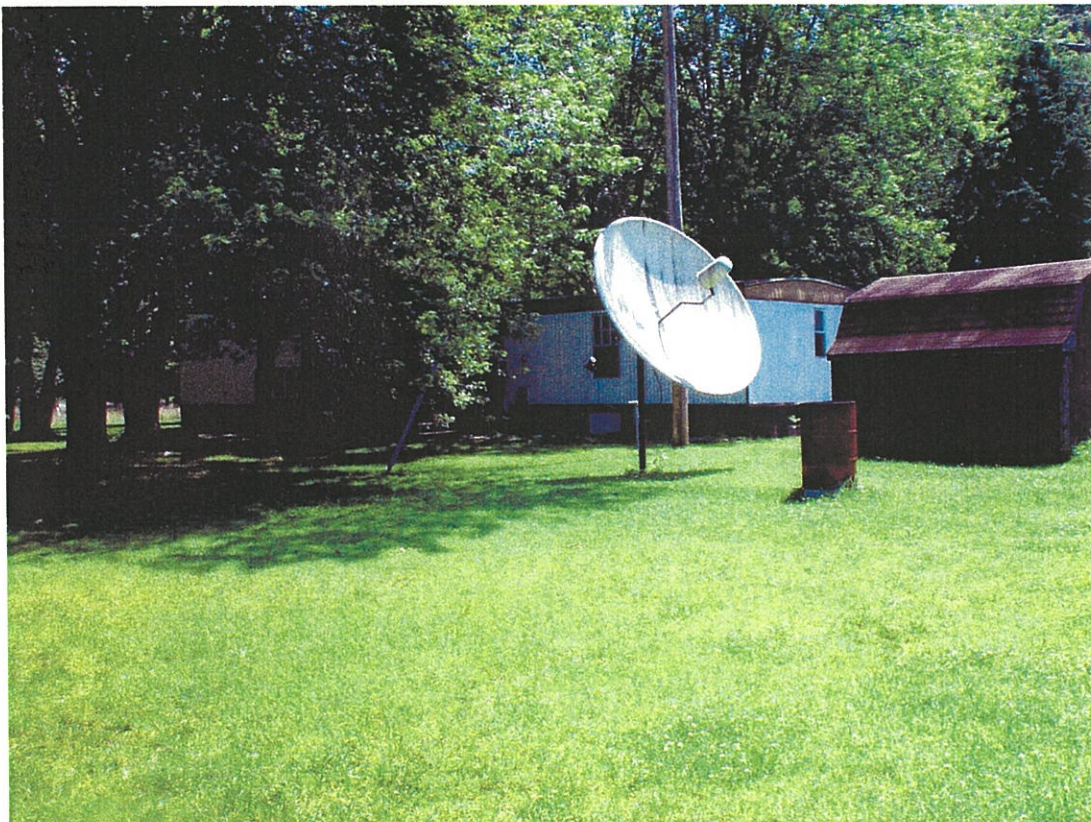


Photo 52. View looking at the rental mobile home located on the eastern portion of the Trowbridge property.

(PID 07-1374.002)

SCI-823-0.00, PID 19415

Portsmouth Bypass Project

Scioto County, Ohio

Phase I ESA Photo Log



Photographer:
S. Stewart

Date of Photograph:
July 17, 2003

Date:
31 July, 2003



Photo 53. View looking at the Trowbridge mobile home located on the central portion of the Trowbridge property.

(PID 07-1374.002)



Photo 54. View looking at the Trowbridge residence.

(PID 07-1374.002)

SCI-823-0.00, PID 19415

Portsmouth Bypass Project

Scioto County, Ohio

Phase I ESA Photo Log

TRANSYSTEMS
CORPORATION

Photographer:
S. Stewart

Date of Photograph:
July 17, 2003

Date:
31 July, 2003



Photo 55. View looking at the print shop located on the western portion of the Trowbridge property.

(PID 07-1374.002)



Photo 56. View looking at the printing equipment located in the print shop.

(PID 07-1374.002)

SCI-823-0.00, PID 19415

Portsmouth Bypass Project

Scioto County, Ohio

Phase I ESA Photo Log

TRANSYSTEMS
CORPORATION

Photographer:
S. Stewart

Date of Photograph:
July 17, 2003

Date:
31 July, 2003



Photo 57. View looking at the printing supplies located in the print shop.

(PID 07-1374.002)



Photo 58. View looking at the printing supplies located in the print shop.

(PID 07-1374.002)

SCI-823-0.00, PID 19415

Portsmouth Bypass Project

Scioto County, Ohio

Phase I ESA Photo Log

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