

**RESOLUTION APPROVING DETAILED CONSTRUCTION PLANS FOR THE PALMER AVENUE TANK REHABILITATION PROJECT, ASHTABULA TOWNSHIP, ACDES**

WHEREAS, Doug Starkey, Director of the Ashtabula County Department of Environmental Services, has presented detailed construction plans prepared by CT Consultants, and approved by the Ashtabula County Sanitary Engineer, for the Palmer Avenue Tank Rehabilitation Project in Ashtabula Township; and

WHEREAS, the project description is as follows:

This project will include, but is not limited to the services to replace the pinch and plug valve, install a new generator and implement the tank improvements recommended in the most recent inspection report and detailed in the plans from CT Consultants.

WHEREAS, Doug Starkey, Director of ACDES, recommends approval of these plans and this Board would concur; now

THEREFORE, BE IT RESOLVED, by the Board of County Commissioners of the County of Ashtabula, Ohio, that:

**Section 1.** The detailed construction plans for the Palmer Avenue tank rehabilitation project, Ashtabula Township are hereby approved.

**Section 2.** Those detailed plans shall be filed in the office of the Ashtabula County Sanitary Engineer, in the Department of Environmental Services and kept continuously on file there for inspection by all persons interested therein.

**Section 3.** This Board finds and determines that all formal actions of this Board concerning and relating to the adoption of this resolution were taken in an open meeting of the Board and all deliberations of this Board and of any of its committees that resulted in those formal actions were in meetings open to the public.

**ASHTABULA COUNTY COMMISSIONERS  
CERTIFICATION PAGE**

**Resolution No. 2024-484**

**October 17, 2024**

**RESOLUTION APPROVING DETAILED CONSTRUCTION PLANS FOR THE  
PALMER AVENUE TANK REHABILITATION PROJECT, ASHTABULA TOWNSHIP,  
ACDES**

**Upon the motion of J.P. Ducro IV, seconded by Casey R. Kozlowski.**

**VOTE:**

**Kathryn L. Whittington  
J.P. Ducro IV  
Casey R. Kozlowski**

**Aye  
Aye  
Aye**

**CERTIFICATE OF CLERK**

IT IS HEREBY CERTIFIED that the foregoing is a true and correct transcript of a resolution acted upon and duly passed by the Board of County Commissioners of Ashtabula County, Ohio, on the date noted above.



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Lisa Hawkins, Clerk of the Board  
Board of County Commissioners  
Ashtabula County, Ohio

# ASHTABULA COUNTY DEPARTMENT OF ENVIRONMENTAL SERVICES PALMER AVENUE TANK REHABILITATION PROJECT

ASHTABULA TOWNSHIP, OHIO

OWNER:

OCTOBER 2024



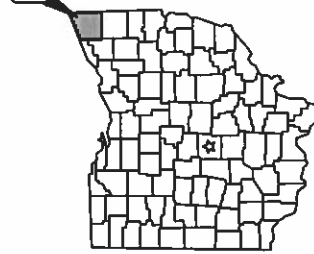
**ASHTABULA COUNTY APPROVALS:**


  
 KATHRYN L. WASHINGTON, COUNTY COMMISSIONER  
 DATE: 10-17-24  

  
 CASEY R. NOZ, OWNER COUNTY COMMISSIONER  
 DATE: 10-17-24  

  
 J.P. DUROVNY, COUNTY COMMISSIONER  
 DATE: 10-17-24

ASHTABULA COUNTY



LOCATION MAP  
NOT TO SCALE



ENGINEER'S PROJECT No. 230155

DOUGLAS G. STARKEY, DIRECTOR

**OFFICE:**

ENVIRONMENTAL SERVICES  
36 W. WALNUT STREET  
JEFFERSON, OHIO 44007

**DEPARTMENTS:**

WATER & SEWER DEPARTMENT  
(440) 576-3722 PHONE  
(440) 576-3781 FAX

DATE

**ENGINEER:**

CT CONSULTANTS, INC.  
8150 STERLING COURT  
MENTOR, OH 44060  
(440) 951-9000 PHONE  
(440) 951-7487 FAX

**PROJECT SITE:**

THE PROJECT IS LOCATED AT AN EXISTING TANK SITE  
IN ASHTABULA COUNTY, OHIO. THE TANK IS LOCATED  
NEAR 2501 STATE ROAD, ASHTABULA TOWNSHIP, OHIO.



RYAN SCHUSTER P.E. No. 72765

DATE



PROJECT NO.	230155
DRAWN BY	CS-1
CHECKED BY	CS-1
DATE	10-17-24
TITLE SHEET	1
	14

ASHTABULA COUNTY DEPARTMENT OF ENVIRONMENTAL SERVICES  
PALMER AVENUE TANK REHABILITATION  
ASHTABULA COUNTY, OHIO







**NOTES:**

INCLUDES THE REHABILITATION OF EXISTING STEEL TANK THAT IS USED FOR WASTEWATER STORAGE. THE TANK IS A STEEL TANK WITH A DIAMETER OF 82 FT. WITH AN OVER-LOW ELEVATION OF 22 FT.

OWNER SHALL FLUSH TANK OF WASTEWATER PRIOR TO CONTRACTOR MOBILIZING TO THE SITE. THE CONTRACTOR SHALL PROVIDE OWNER A 48 HOUR NOTICE PRIOR TO MOBILIZATION.

CONTRACTOR SHALL PREPARE INTERIOR AND EXTERIOR SURFACES BY SSPC-SP-10 NEAR WHITE BLAST. CONTRACTOR SHALL NOTIFY THE ENGINEER AND OWNER OF ANY DEFICIENCIES IN THE STEEL WITH THE COMPLETION OF THE BLASTING ACTIVITY.

THERE ARE TWO 24" MANWAYS AND TWO 16"x12" MANWAYS IN THE SIDEWALL. AN ADDITIONAL 24" ROOF HATCH IS PRESENT. HATCHES SHALL BE PREPARED BY SSPC-SP-10 NEAR WHITE BLAST AND COATED WITH THE REQUIRED COATING. EX. HARDWARE SHALL BE REPLACED WITH NEW HARDWARE. CONTRACTOR SHALL ENSURE THAT THE HATCHES ARE WATERTIGHT WITH THE COMPLETION OF THE COATING. THE COATING SYSTEM SHALL NOT IMPED THE OPERATION OF THE HATCHES.

COATING SYSTEMS SHALL BE APPLIED ON ALL SURFACES INSIDE OF THE TANK, INCLUDING THE LOW POINTS OF THE TANK AND THE EXTERIOR OF THE OVERFLOW PIPE. THE COATING SYSTEM SHALL NOT IMPAIR THE OPERATION OF THE INTERIOR FLUSHING SYSTEM.

CONTRACTOR SHALL REMOVE LOOSE GROUT BETWEEN THE STEEL, BASEFLATE AND CONCRETE. ALL SURFACES SHALL BE PROPERLY PREPARED AND COATED WITH THE REQUIRED COATING. THE PROPOSED COATING SHALL BE EXTENDED OVER THE GROUT AND EXPOSED CONCRETE.

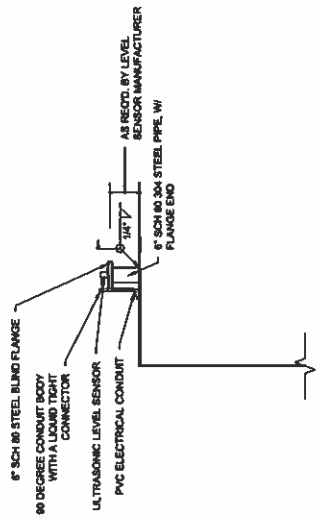
CONTRACTOR SHALL FURNISH AND INSTALL PERMANENT HORIZONTAL LIFE LINE SYSTEM THAT CONNECTS TO THE ROOF OF THE TANK FROM EXISTING ROOF HATCH TO NEW HATCHES. THE LIFE LINE SHALL BE MADE OF 1/2" DIA. GALV. STEEL PIPE. THE LIFE LINE SHALL BE MADE OF 1/2" DIA. GALV. STEEL PIPE WITH INLINE ENERGY ABSORBER. ANCHOR SYSTEM SHALL BE DESIGNED FOR CONNECTION TO METAL SURFACES AND HORIZONTAL LIFE LINES IN PERMANENT APPLICATIONS. INSTALLATION SHALL BE PERFORMED AS RECOMMENDED BY THE MANUFACTURER. MANUFACTURERS SHALL BE DSHS/ALA OR APPROVED EQUAL.

CONTRACTOR SHALL FURNISH AND INSTALL A NEW FIXED STEEL CAGE DOOR ATTACHED TO THE BOTTOM OF THE CAGE BY A HINGE. DOOR SHALL BE LOCKABLE.

CONTRACTOR SHALL REMOVE AND REPLACE THE EXISTING 4" OD WASHDOWN RISER PIPE WITH A NEW 4" DIA. DUCTILE IRON PIPE WITH FLANGE JOINTS. LIMITS OF REPLACEMENT SHALL BE BETWEEN 90 DEGREE BEND AT TOP OF TANK TO THE FLANGE JOINT AT GROUND LEVEL. INTERIOR COATING SHALL BE LINED WITH CEMENT MORTAR MEETING ANSI A21.4M/MSA C104. PIPE SHALL BE COATED TO MATCH TANK COATING.

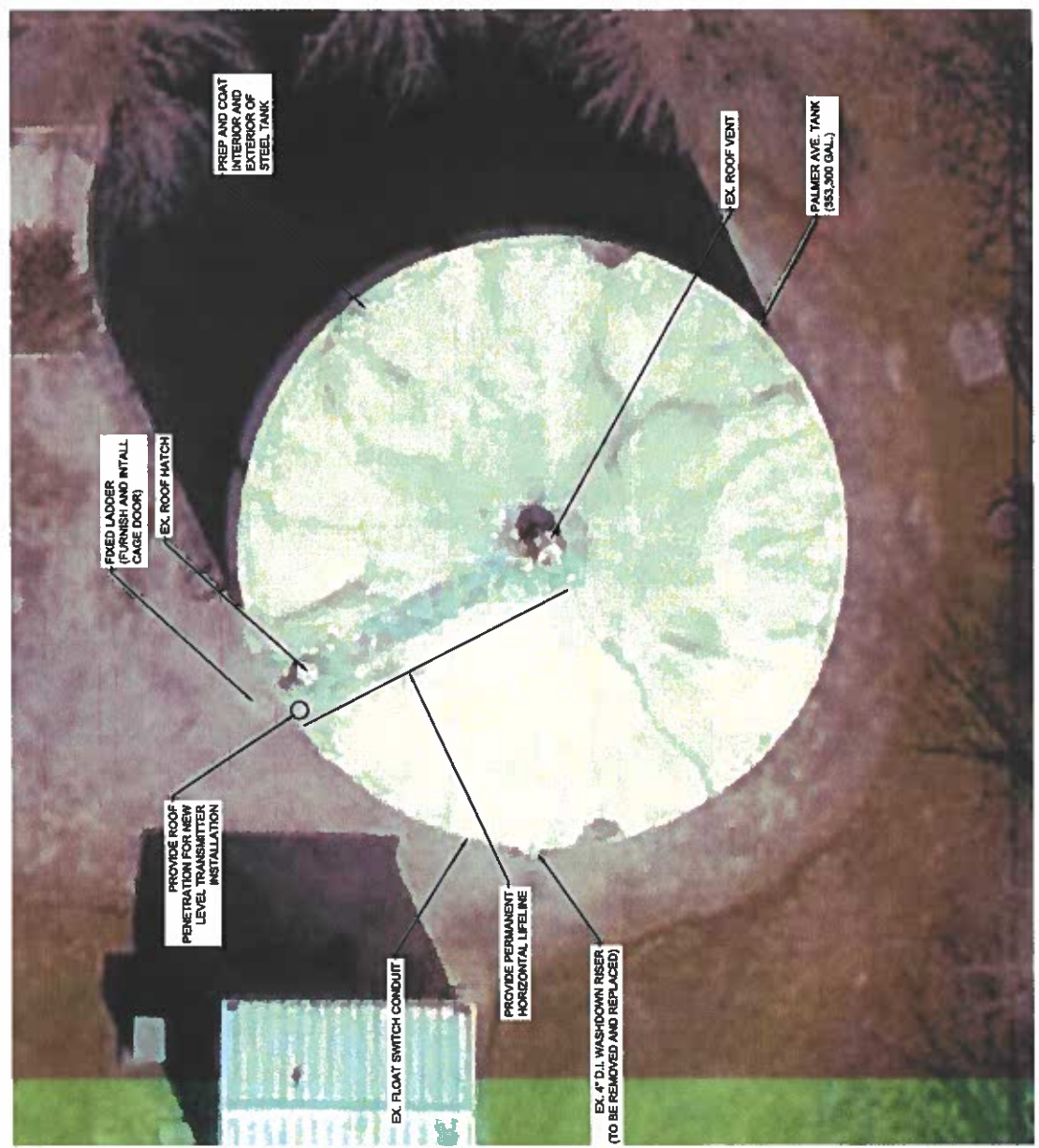
CONTRACTOR SHALL CUT NEW HOLE IN THE TOP OF THE TANK ROOF FOR THE INSERTION OF A NEW RADAR LEVEL SENSOR. REFER TO LEVEL SENSOR INSTALLATION DETAIL. WELD NEW 6" STEEL PIPE TO ROOF OF TANK. WATER TIGHT. NEW LEVEL SENSOR SHALL BE CONNECTED TO THE MCC IN THE EX. GENERATOR BUILDING.

CONTRACTOR SHALL COORDINATE WORK EFFORT TO THE INTERIOR OF THE WATER STORAGE TANK WITH THE COUNTY.



- NOTES:**
1. CORE HOLE ROOF AND SEAL ROOF THROUGH WELD.
  2. ALL CONDUIT FOR LEVEL SENSOR SHALL BE 6" SCH 80 NON-METALIC PVC TO REZIST BLAST.
  3. CONDUIT SHALL BE ATTACHED TO THE SIDEWALL OF THE STEEL TANK A MINIMUM OF TWO SUPPORTS PER LENGTH OF CONDUIT. MEETING UL LISTING.

**LEVEL SENSOR INSTALLATION DETAIL**  
 14.1.1.1



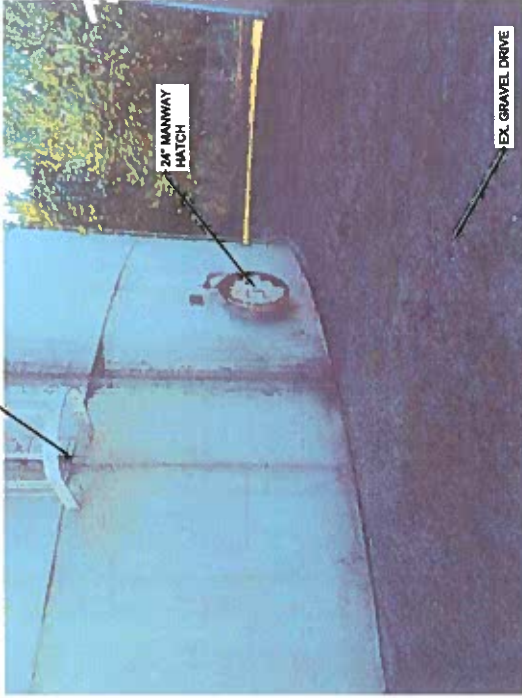


PHOTO 1 - PALMER AVE. TANK  
TANK HATCH COVER

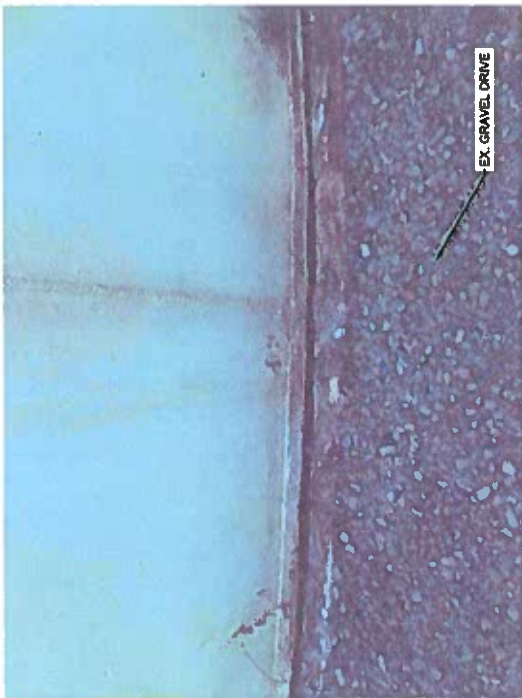
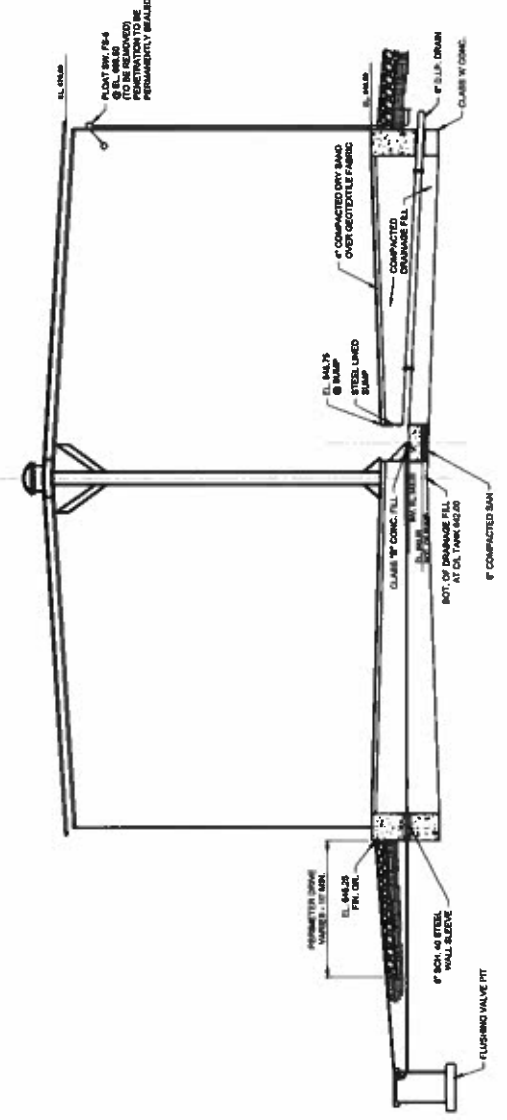


PHOTO 2 - PALMER AVE. TANK  
COURT RETENTION WALL AND FOUNDATION



PHOTO 3 - PALMER AVE. TANK  
TANK SITE



RETENTION BASIN TYPICAL SECTION  
NOT TO SCALE

ASHTABULA COUNTY DEPARTMENT OF ENVIRONMENTAL SERVICES		ASHTABULA COUNTY	
PALMER AVENUE TANK REHABILITATION		PROJECT NO. 2007155	
DATE: 08/14/15		SHEET NO. 05	
SCALE: 1/8" = 1'-0"		TOTAL SHEETS: 14	
DRAWN BY: [Name]		CHECKED BY: [Name]	
DESIGNED BY: [Name]		APPROVED BY: [Name]	
DATE: [Date]		DATE: [Date]	



11000 Lakeshore Blvd. S. #1000  
Kent, OH 44240  
T Environmental Services, Inc.



**NOTES:**

REPLACE EXISTING 1" PLUG VALVE. CONTRACTOR SHALL REMOVE AND REPLACE TWO EXISTING 1" PLUG VALVES AND ELECTRIC ACTUATOR LOCATED WITHIN THE EX. DIVERSION STRUCTURE.

TWO NEW 1" PLUG VALVES SHALL BE FURNISHED AND INSTALLED WITH NEW ELECTRIC ACTUATOR.

REPLACE EXISTING DIVERSION STRUCTURE LEVEL SENSOR. CONTRACTOR SHALL REMOVE THE EXISTING LEVEL SENSOR IN ITS ENTIRETY. A NEW RADAR LEVEL SENSOR SHALL BE CONSTRUCTED WITHIN THE DIVERSION CHAMBER.

RADAR LEVEL SENSOR SHALL BE CONNECTED TO THE MCC WITHIN THE EX. GENERATOR BUILDING.

REPLACE EXISTING 8" PINCH VALVE. CONTRACTOR SHALL REMOVE AND REPLACE THE EXISTING 8" PINCH VALVE AND ELECTRIC ACTUATOR LOCATED WITHIN THE EX. VALVE VAULT.

A NEW 8" PINCH VALVE SHALL BE FURNISHED AND INSTALLED WITH NEW ELECTRIC ACTUATOR.

YARD HYDRANT REPLACEMENT. CONTRACTOR SHALL REMOVE THE EXISTING YARD HYDRANT AND CONCRETE PAD. THE CONTRACTOR SHALL FURNISH AND INSTALL A NEW 3/4" APPROX. TOTAL ECLIPSE YARD HYDRANT. OR APPROVED EQUAL. HYDRANTS SHALL BE SELF DRAINING, NON-FREEZING, AND SERVICEABLE FROM ABOVE GROUND.

CONCRETE PAD SHALL BE REPLACED WITH NEW 6" CONCRETE PAD. (SEE DIMENSIONS). 8" OF 3/4" AGGREGATE SHALL BE COMPACTED UNDER NEW PAD. FINISH GRADE SHALL BE SET 7" ABOVE EXISTING GRADE.

CONCRETE PAD SHALL BE REPLACED WITH NEW 6" CONCRETE PAD. (SEE DIMENSIONS). 8" OF 3/4" AGGREGATE SHALL BE COMPACTED UNDER NEW PAD. FINISH GRADE SHALL BE SET 7" ABOVE EXISTING GRADE.

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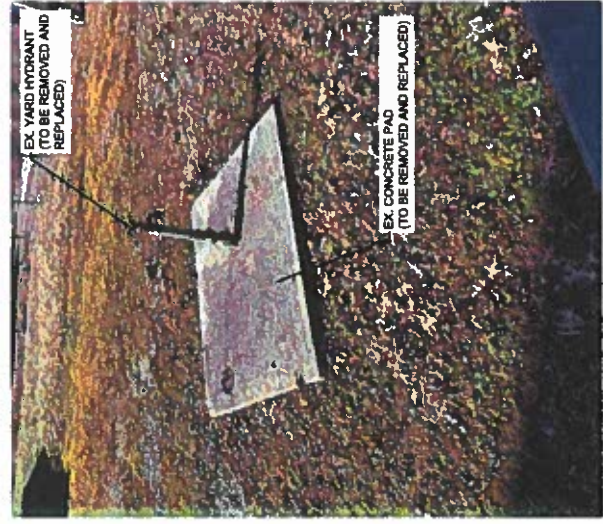


PHOTO 3 - PALMER AVE. TANK  
EX. YARD HYDRANT

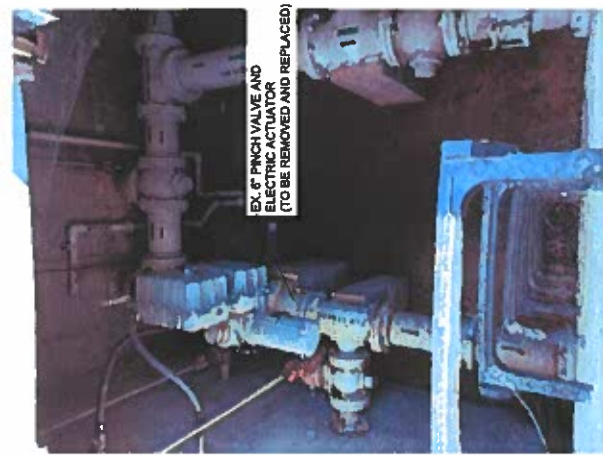


PHOTO 5 - PALMER AVE. TANK  
VALVE VAULT

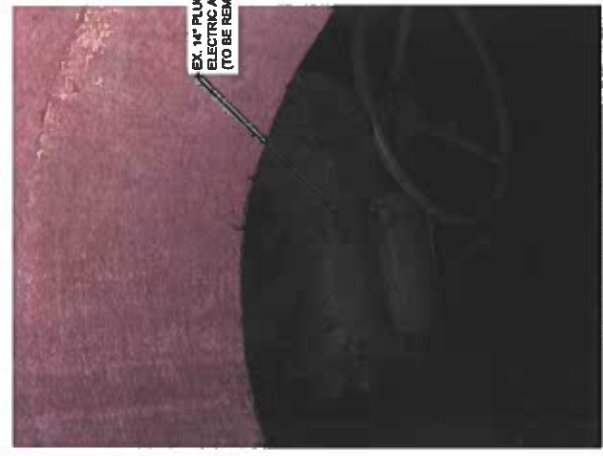
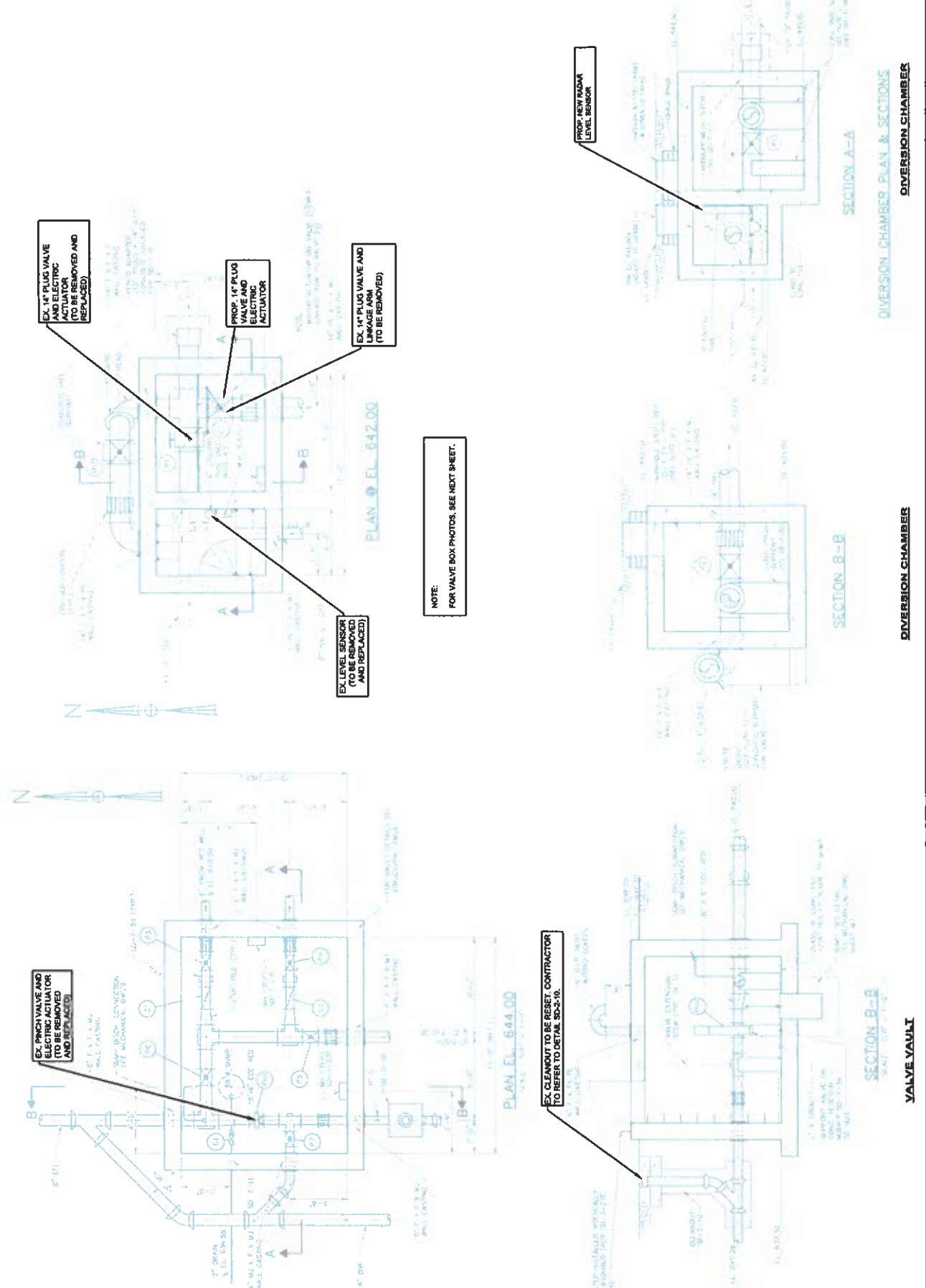


PHOTO 8 - PALMER AVE. TANK  
VALVE VAULT



SECTION A-A  
DIVERSION CHAMBER PLAN & SECTIONS  
DIVERSION CHAMBER

SECTION B-B  
DIVERSION CHAMBER

SECTION B-B'  
VALVE VAULT









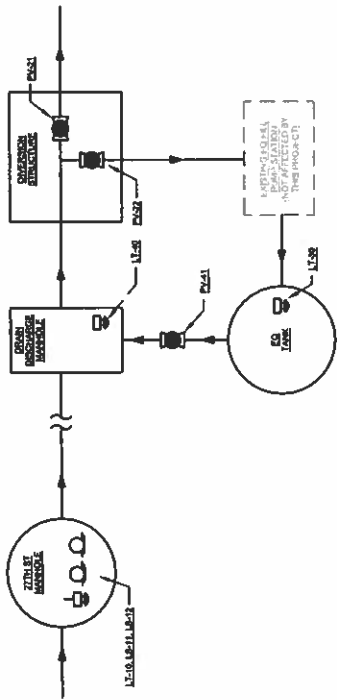




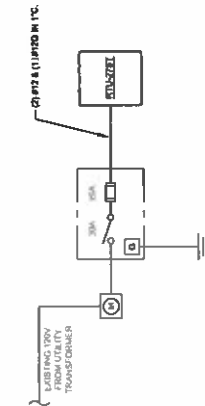
DESIGN NO.	
ISSUE DATE	
REV. DESCRIPTION	
DATE	
DESIGNER	
CHECKED BY	
DATE	
SCALE	
PROJECT NO.	
PROJECT NAME	

ASHTABULA COUNTY DEPARTMENT OF ENVIRONMENTAL SERVICES  
 PALMER AVENUE TANK REHABILITATION  
 ASHTABULA OHIO

PROJECT NO.	280785
PROJECT NAME	CONDUIT
DATE	ED-1
SCALE	C



**FLOW CONTROL DIAGRAM**  
 N.T.S. MANUAL STARTS PERIODIC SHOWING



**27TH ST. MONITORING MANHOLE SINGLE LINE DIAGRAM**  
 N.T.S.



**27TH ST. MONITORING MANHOLE I.S.C. INTERCONNECTION DIAGRAM**  
 N.T.S.

LEVELS IN MANHOLE  
 4-20M  
 DISCRETE  
 DISCRETE  
 DISCRETE  
 DISCRETE



# ASHTABULA COUNTY DEPARTMENT OF ENVIRONMENTAL SERVICES

## PALMER AVENUE TANK REHABILITATION PROJECT



**ASHTABULA COUNTY APPROVALS:**

KATHRYN L. WHITTINGTON, COUNTY COMMISSIONER \_\_\_\_\_ DATE \_\_\_\_\_

CASEY R. KOZLOWSKI, COUNTY COMMISSIONER \_\_\_\_\_ DATE \_\_\_\_\_

J.P. DUCRO IV, COUNTY COMMISSIONER \_\_\_\_\_ DATE \_\_\_\_\_



ASHTABULA TOWNSHIP, OHIO

OCTOBER 2024



LOCATION MAP  
NOT TO SCALE



ENGINEER'S PROJECT No. 230155

**OWNER:**

*[Signature]*  
DORCAS G. STANLEY, DIRECTOR

10-9-2024  
DATE

**OFFICE:**

ENVIRONMENTAL SERVICES  
36 W. WALNUT STREET  
JEFFERSON, OHIO 44047

**DEPARTMENTS:**

WATER & SEWER DEPARTMENT  
(440) 576-3722 PHONE  
(440) 576-3781 FAX

**ENGINEER:**

CT CONSULTANTS, INC.  
8150 STERLING COURT  
MENTOR, OH 44060  
(440) 951-9000 PHONE  
(440) 951-7487 FAX

**PROJECT SITE:**

THE PROJECT IS LOCATED AT AN EXISTING TANK SITE IN ASHTABULA COUNTY, OHIO. THE TANK IS LOCATED NEAR 2501 STATE ROAD, ASHTABULA TOWNSHIP, OHIO.

RYAN SCHUSTER

*[Signature]*



P.E. No. 72755

DATE

ISSUED FOR:	REV.	DESCRIPTION	DATE
EPA APPROVAL			
ISSUE DATE:			
SCALE:	NA		
DESIGNED BY:	RES		
DRAWN BY:	BEK		
CHECKED BY:	RES		



ASHTABULA COUNTY DEPARTMENT OF ENVIRONMENTAL SERVICES  
PALMER AVENUE TANK REHABILITATION  
ASHTABULA COUNTY ASHTABULA, OHIO

TITLE SHEET

PROJECT NO.	230155
SHEET NAME	CS-1
SHEET	1 OF 14

CONSULTANTS, INC. 8150 STERLING COURT, MENTOR, OH 44060