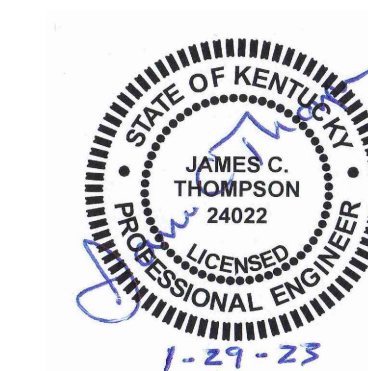


# 2022 WATER SYSTEM IMPROVEMENTS WATER TANK REHABILITATION

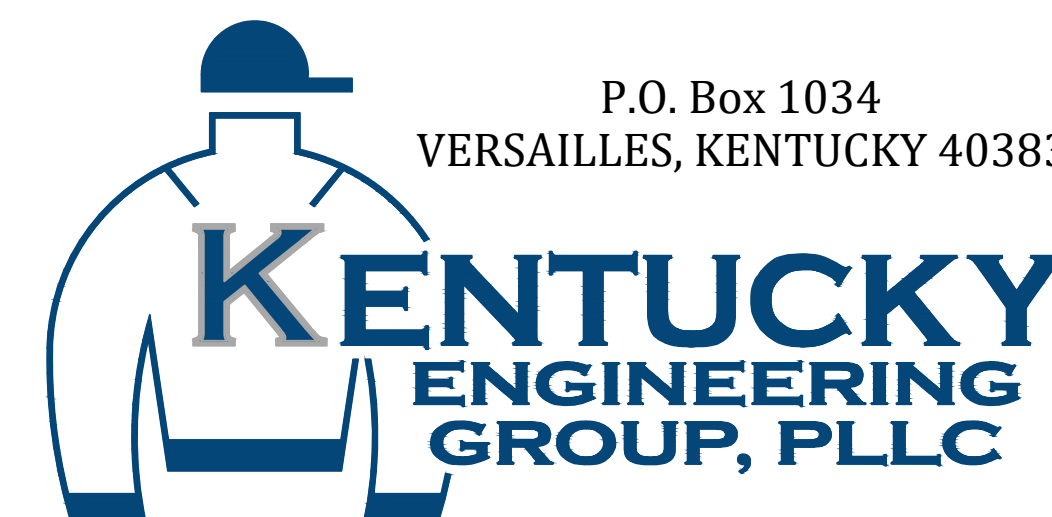
For The

Bath County Water District  
Bath County, Kentucky

JANUARY 2023



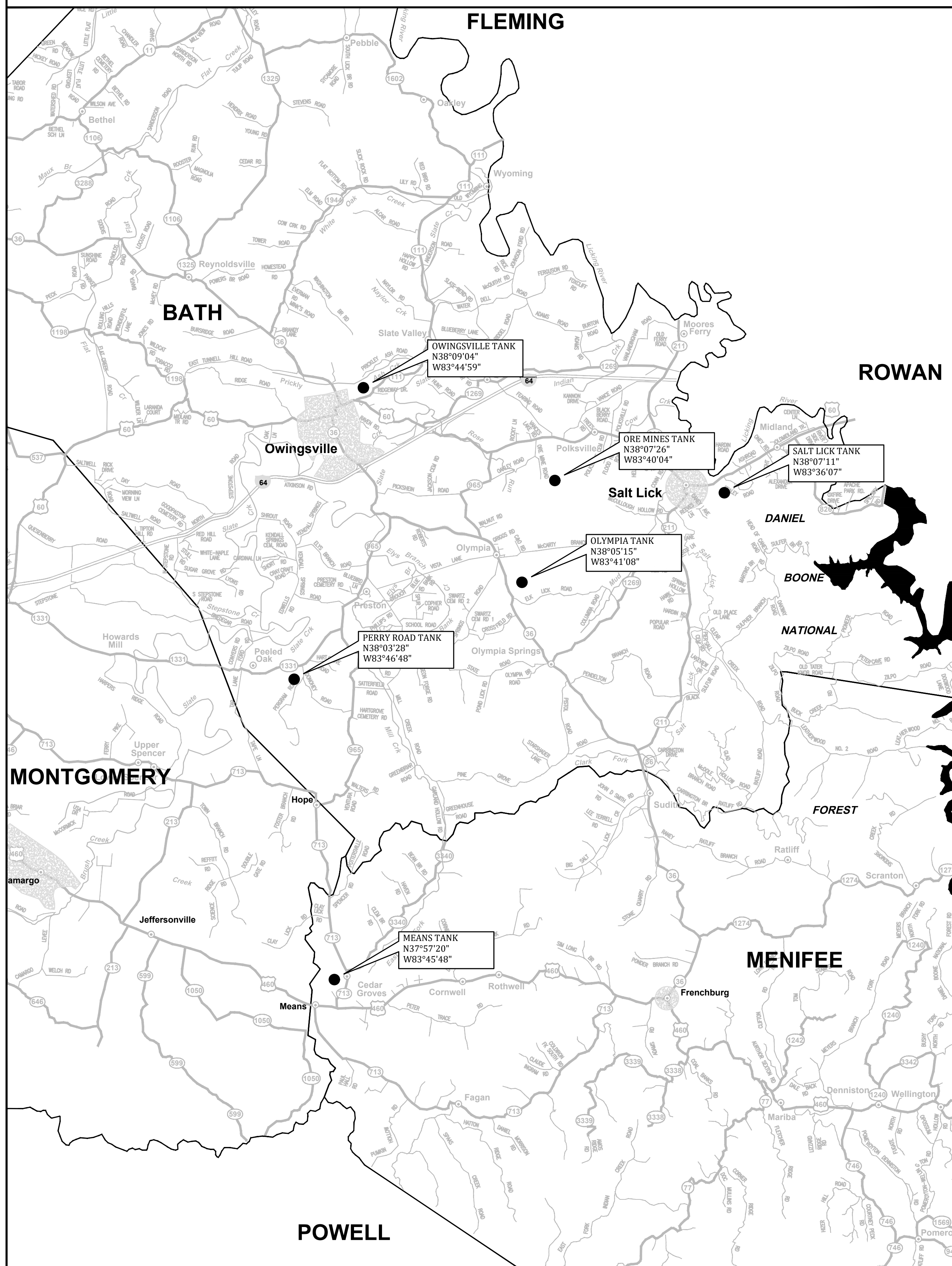
PROJECT NO.22015



BID DOCUMENTS



PROJECT LOCATION MAP - NOT TO SCALE



**INDEX OF DRAWINGS**

-	COVER SHEET
G-1	PROJECT LOCATION MAP, INDEX OF DRAWINGS, LEGEND and UTILITIES
G-2	GENERAL NOTES
C-1	REHABILITATION OF THE SALT LICK TANK
C-2	REHABILITATION OF THE PERRY ROAD TANK
C-3	REHABILITATION OF THE ORE MINES TANK
C-4	REHABILITATION OF THE MEANS TANK
C-5	REHABILITATION OF THE OLYMPIA TANK
C-6	REHABILITATION OF THE OWINGSVILLE TANK
SD-1	STANDARD DETAILS

**UTILITIES**

**BUD - Before You Dig**  
 1-800-752-6007  
 or DIAL 811

**NOTE:**  
 IN ACCORDANCE WITH KENTUCKY STATE LAW, ANY ACTIVITY THAT RESULTS IN MOVEMENT, PLACEMENT, BORING, PROBING OR DIGGING IN OR ON THE GROUND SHALL CONTACT THE ONE CALL CENTER FOR UNDERGROUND UTILITY LOCATIONS.

**LEGEND**

EXISTING	PROPOSED	DESCRIPTION
PVC	PVC	POLYVINYL CHLORIDE
DIP	DIP	DUCTILE IRON PIPE
WM	WM	WATER MAIN
♀	♂	FLUSHING HYDRANT ASSEMBLY (YELLOW)
♂	♂	BLOWOFF ASSEMBLY
△	▲	AIR RELEASE VALVE (ARV)
⊗	⊗	GATE VALVE (GV)
---	---	WATER MAIN (WM)
---	---	SPECIAL CROSSING OR CASING PIPE
---	---	WATER MAIN TO BE ABANDONED
RyW	RyW	RIGHT-OF-WAY LINE
---	---	CENTERLINE
---	---	PROPERTY LINE
---	---	EASEMENT ACQUIRED
●	●	EXISTING METERS TO BE REPLACED

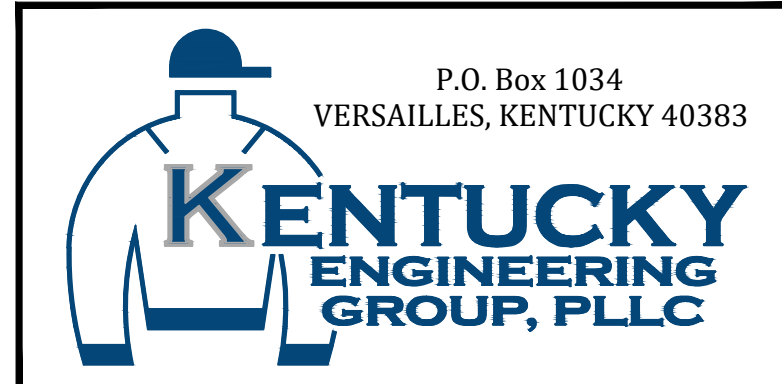
P:\PROJECTS\Bath County Water District\2015-2022 Improvements and Upgrades\DWG\Tank Rehab\2015 G1 - Tanks.dwg KEG 2/01/23

IT IS A VIOLATION OF LAW FOR ANY PERSON TO ALTER THIS DRAWING WITHOUT WRITTEN PERMISSION FROM KENTUCKY ENGINEERING GROUP, PLLC AND ACTING UNDER THE DIRECTION OF A LICENSED ENGINEER.

THIS DRAWING WAS PREPARED AT THE SCALE INDICATED. INACCURACIES IN THE STATED SCALE MAY BE INTRODUCED WHEN DRAWINGS ARE REPRODUCED BY ANY MEANS. USE THE GRAPHIC SCALE BAR IN THE DRAWING OR TITLE BLOCK TO DETERMINE THE ACTUAL SCALE.

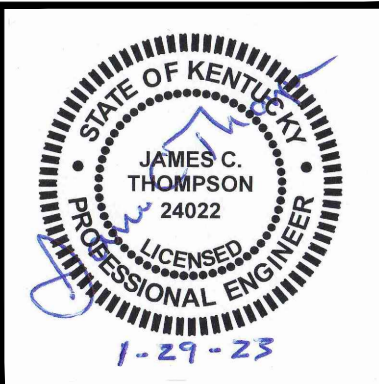
NO.	DATE	REVISIONS	BY

DATE:	JANUARY 2023
PROJECT MGR:	JCT
DRAWN BY:	JAB
CHECKED BY:	JCT
SCALE:	AS NOTED
2023 © Kentucky Engineering Group, PLLC	



2022 WATER SYSTEM  
 IMPROVEMENTS PROJECT  
 WATER TANK REHABILITATION  
 FOR THE  
 BATH COUNTY WATER DISTRICT

PROJECT LOCATION MAP,  
 INDEX OF DRAWINGS, LEGEND  
 and UTILITIES



PROJECT NO.	22015
SHEET NO.	G-1

BID DOCUMENTS



**GENERAL NOTES**

1. **GENERAL PROJECT REQUIREMENTS** - IN THE EVENT OF A CONFLICT BETWEEN ANY PORTION OF THE CONTRACT DOCUMENTS, THE MORE STRINGENT REQUIREMENT SHALL GOVERN.
2. **PROJECT COMMUNICATIONS / INSPECTION** - THE ENGINEER SHALL BE THE OWNER'S DESIGNATED SITE REPRESENTATIVE. ALL COMMUNICATION FROM THE CONTRACTOR AND TO THE CONTRACTOR, SHALL BE THROUGH THE ENGINEER.
3. **SAFETY** - THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR INITIATING, MAINTAINING, AND SUPERVISING ALL SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK. THE CONTRACTOR SHALL SELECT THE MEANS, METHODS, SEQUENCES, AND TECHNIQUES OF CONSTRUCTION HE DEEMS APPROPRIATE FOR ACCOMPLISHING THE WORK IN A SAFE MANNER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGE TO PERSONS AND PROPERTY RESULTING FROM HIS ACTIVITIES.
4. **EMERGENCY SHUTOFF** - THE CONTRACTOR SHALL LOCATE EXISTING WATER AND GAS VALVES PRIOR TO STARTING WORK SO THAT IN THE EVENT OF AN EMERGENCY THE UTILITY SERVICE MAY BE QUICKLY SHUT OFF.
5. **EASEMENTS AND RIGHT-OF-WAY** - THE OWNER IS RESPONSIBLE FOR THE PROCUREMENT OF ALL PERMANENT EASEMENTS NECESSARY OR REQUIRED FOR THE PROJECT. THE CONTRACTOR IS RESPONSIBLE FOR TEMPORARY EASEMENTS FOR HIS STAGING AREAS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBSERVE THE CONDITIONS OF THESE AGREEMENTS AND CONFINE HIS ACTIVITIES TO THE LIMITS OF THE EASEMENTS. CONTRACTOR TO OBTAIN COPIES OF EASEMENTS OBTAINED BY OWNER AND ABIDE BY THE CONDITIONS OF THESE EASEMENTS DURING CONSTRUCTION.
6. **EXCAVATION** - IT SHALL BE DISTINCTLY UNDERSTOOD THAT ANY REFERENCE TO ROCK, EARTH, OR ANY OTHER MATERIALS ON THE PLANS WHETHER IN NUMBERS, WORDS, LETTERS, OR LINES, IS SOLELY FOR THE OWNER'S INFORMATION AND SHALL NOT BE TAKEN AS AN INDICATION OF CLASSIFIED EXCAVATION OR THE QUANTITY OF EITHER ROCK, EARTH OR ANY OTHER MATERIAL INVOLVED. THE BIDDER MUST DRAW HIS OWN CONCLUSIONS AS TO THE CONDITIONS TO BE ENCOUNTERED. THE CONTRACTOR SHALL PERFORM ALL EXCAVATION NECESSARY OR REQUIRED FOR COMPLETION OF THE PROJECT. THIS WORK SHALL INCLUDE THE REMOVAL AND PROPER DISPOSAL OF ALL MATERIALS OF WHATEVER NATURE ENCOUNTERED. EXCAVATION FOR UTILITIES SHALL BE CONSIDERED INCIDENTAL TO THE COST OF THE WORK AND SHALL NOT BE MEASURED FOR PAYMENT.
7. **TOTAL SITE RESPONSIBILITY** - IN OCCUPYING THE SITE AND COMMENCING WORK IN ACCORDANCE WITH THE NOTICE TO PROCEED, THE CONTRACTOR ASSUMES TOTAL AND COMPLETE RESPONSIBILITY FOR THE WORK UNTIL FINAL PAYMENT AND RELEASE OF CLAIMS. ANY PORTION OF THE WORK DAMAGED IN THIS TIME PERIOD BY ACTS OF GOD, OR THE PUBLIC ENEMY, ACTS OF THE OWNER, ACTS OF OTHER CONTRACTORS, FIRES, FLOODS, EPIDEMICS, QUARANTINE, STRIKES, FREIGHT EMBARGOES, VANDALISM AND ABNORMAL WEATHER SHALL BE CORRECTED, REPAIRED, OR REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
8. **ACCESS TO WORK** - THE ENGINEER, HIS REPRESENTATIVES, AND REPRESENTATIVES OF THE OWNER SHALL HAVE FULL ACCESS TO THE WORK AT ALL TIMES.
9. **BLASTING** - NO BLASTING SHALL BE ALLOWED ON THIS PROJECT.
10. **BURNING** - BURNING SHALL CONFORM TO ALL APPLICABLE LOCAL, STATE, AND FEDERAL ORDINANCES.
11. **WASTE AREAS** - THE CONTRACTOR WILL NECESSARILY GENERATE WASTE MATERIALS IN THE FORM OF BRUSH CLIPPINGS, OVERSIZE BOULDERS, MUCK, ETC. THE CONTRACTOR SHALL SUBMIT A WRITTEN PLAN DETAILING THE MANNER IN WHICH WASTE MATERIALS WILL BE HANDLED. THE CONTRACTOR SHALL STRICTLY COMPLY WITH ALL LOCAL, STATE, AND FEDERAL LAWS AND REGULATIONS PERTAINING TO THE DISPOSITION OF CONSTRUCTION RELATED WASTE PRODUCTS. IN NO EVENT SHALL WASTE MATERIALS BE PLACED IN A REGULATORY FLOODWAY (OR FLOODPLAIN) WITHOUT A DOW PERMIT TO CONSTRUCT ALONG OR ACROSS A STREAM. OWNER WILL NOT ASSUME RESPONSIBILITY FOR WASTE AREAS.
12. **SILT CONTROL** - THE CONTRACTOR SHALL CONDUCT HIS WORK IN AN ENVIRONMENTALLY SOUND MANNER AND SHALL UTILIZE "BEST MANAGEMENT PRACTICES" TO MINIMIZE EROSION. THE CONTRACTOR SHALL HOLD HARMLESS THE OWNER FROM ANY VIOLATIONS ASSOCIATED WITH THE CLEAN WATER ACT.
13. **DRAINAGE** - CONTRACTOR SHALL MAINTAIN DRAINAGE WORK AREAS DURING ALL PHASES OF CONSTRUCTION. THE OWNER MAY DIRECT THE CONTRACTOR TO CONSTRUCT DITCHES OR BERMS TO ALLEVIATE SITE DRAINAGE PROBLEMS. CONSTRUCTION AND MAINTENANCE OF MINOR DRAINAGE WORKS SHALL BE CONSIDERED AN INTEGRAL PART OF THE OVERALL ACCOMPLISHMENTS OF THE PROJECT AND SHALL NOT BE MEASURED FOR SEPARATE PAYMENT.
14. **ADHERENCE TO PERMITS** - PERMITS REQUIRED BY THE OWNER ARE:
  - a. DIVISION OF WATER CONSTRUCTION PERMIT FOR WATER LINE EXTENSIONS.
  - b. DEPARTMENT OF HIGHWAYS ENCROACHMENT PERMIT.

THE CONTRACTOR SHALL CONDUCT HIS ACTIVITIES IN STRICT ACCORDANCE WITH THESE PERMITS AT ALL TIMES. IN PARTICULAR, THE CONTRACTOR SHALL STRICTLY OBSERVE THE 401 WATER QUALITIES CERTIFICATION KEY REQUIREMENTS OF THE 401 CERTIFICATION WHICH INCLUDE:

- a. RE-VEGETATION AND CLEANUP OF AREA ADJACENT TO STREAMS SHALL OCCUR CONCURRENTLY WITH THE PROGRESS OF THE WORK. CONCURRENTLY IS HEREIN DEFINED TO MEAN THAT RE-VEGETATION AND CLEANUP.
- b. BEST MANAGEMENT PRACTICES SHALL BE EMPLOYED. TO MINIMIZE SEDIMENT RUNOFF AND SOIL EROSION TO THE WATER COURSE.
- c. EXTREME CARE SHALL BE TAKEN TO PREVENT SPILLS OF FUELS AND LUBRICANT INTO WATERCOURSES. EQUIPMENT WORKS FROM THE STREAM BANK.

15. **EXISTING UTILITIES AND UNDERGROUND FACILITIES** - THE CONTRACTOR'S ATTENTION IS CALLED TO THE PRESENCE OF EXISTING UTILITIES IN CLOSE PROXIMITY TO THE PROJECT SITE. THE CONTRACTOR IS ADVISED TO CAREFULLY REVIEW THE PROJECT REQUIREMENTS REGARDING UTILITY RELOCATIONS. THE CONTRACTOR CAN CALL 1-800-752-6007 A MINIMUM OF TWO AND NO MORE THAN TEN BUSINESS DAYS PRIOR TO EXCAVATION FOR INFORMATION ON THE LOCATION OF EXISTING UNDERGROUND UTILITIES WHICH SUBSCRIBE TO THE BEFORE-U-DIG (BUD) SERVICE. ALL UTILITY REPAIR AND RELOCATION WORK SHALL BE INCIDENTAL TO OTHER ITEMS OF WORK. THE EXISTING CONTRACTOR MUST MAKE DILIGENT EFFORT TO MAINTAIN THE SERVICE OF EXISTING UTILITIES. THE CONTRACTOR SHALL PROVIDE BY-PASS PUMPING OF WASTEWATER TO THE NEAREST PUBLIC SANITARY SEWER WHENEVER HIS ACTIVITIES INTERRUPT THE FLOW OF AN EXISTING SANITARY WASTEWATER DISPOSAL FACILITY (SEWER, SEPTIC TANK, LEACH FIELD, ETC.) BY-PASS PUMPING SHALL BE CONSIDERED AN INCIDENTAL PART OF THE PIPE LAYING ACTIVITY AND SHALL NOT BE MEASURED FOR SEPARATE PAYMENT.

**GENERAL NOTES (continued)**

16. **REPLACEMENT OF EXISTING FACILITIES** - THE CONTRACTOR SHALL REPLACE EXISTING ENTRANCE PIPES, RETAINING WALLS, CATCH BASINS, FENCES AND OTHER PROPERTY IMPROVEMENTS, DITCHES, ETC., THAT ARE DAMAGED BY CONSTRUCTION UNLESS SAID FACILITIES ARE SPECIFICALLY SHOWN TO BE REMOVED. IN PARTICULAR, ALL DRAINAGE DITCHES SHALL BE RESTORED TO A CONDITION EQUAL OR BETTER THAN THAT WHICH EXISTED PRIOR TO CONSTRUCTION. UNLESS SAID FACILITY REPLACEMENT IS IDENTIFIED AS A PAY ITEM IN THE DESIGN DRAWINGS OR TECHNICAL SPECIFICATIONS, THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE COST OF LAYING PIPE AND SHALL NOT BE MEASURED FOR PAYMENT
17. **DAMAGE TO GUARDRAILS, SIGNS, FENCES, STORM DRAINS, ETC.** - ALL GUARDRAIL, SIGNS, FENCES, STORM DRAINS, ETC., DAMAGED AS A RESULT OF THE CONSTRUCTION SHALL BE RESTORED IN LIKE KIND AND CHARACTER TO THE SATISFACTION OF THE OWNER. UNLESS SAID REPLACEMENT IS IDENTIFIED AS A PAY ITEM IN THE DESIGN DRAWINGS OR TECHNICAL SPECIFICATIONS, THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE COST OF LAYING PIPE AND SHALL NOT BE MEASURED FOR PAYMENT.
18. **STREAM CROSSING** - THE LAST EIGHTEEN (18) INCHES OF BACKFILL IN ALL STREAM BEDS SHALL CONSIST OF KENTUCKY DEPARTMENT OF HIGHWAY CHANNEL LINING CLASS III.
19. **THRUST BLOCKS** - CONCRETE THRUST BLOCKS OR 'KICKER' BLOCKS SHALL BE INSTALLED IN ALL PRESSURIZED LINES AT INTERSECTION AND CHANGES OF DIRECTION TO RESIST FORCES ACTING UPON THE PIPELINE. THRUST BLOCKS ARE CONSIDERED INCIDENTAL TO THE PIPELINE
20. **ANCHORS** - CONCRETE ANCHORS SHALL BE PROVIDED WHEN THE PIPE SLOPE IS TWENTY (20) PERCENT OR GREATER. ANCHORS ARE CONSIDERED INCIDENTAL TO THE PIPELINE INSTALLATION.
21. **SEPARATION OF WATER AND SEWER** - HORIZONTAL- SEWERS SHALL BE LAID AT LEAST TEN (10) FEET HORIZONTALLY FROM ANY EXISTING OR PROPOSED WATER MAIN. THIS DISTANCE SHALL BE MEASURED EDGE TO EDGE. IF FIELD CONDITIONS DO NOT ALLOW THIS SEPARATION, THE SEWER SHALL BE LOCATED SUCH THAT THE CROWN OF THE SEWER PIPE IS EIGHTEEN (18) INCHES BELOW THE INVERT OF THE WATER LINE. IF FIELD CONDITIONS DO NOT ALLOW THIS CONDITION TO BE MET THEN THE SEWER SHALL BE CONSTRUCTED OF MECHANICAL JOINT DUCTILE IRON PIPE (PRESSURE TESTED TO 150 PSI) AND ENCASED IN CONCRETE.
22. **CROSSING** - SEWERS SHALL CROSS UNDER WATER MAINS WITH A MINIMUM OF EIGHTEEN (18) INCHES OF SEPARATION BETWEEN THE CROWN OF THE SEWER AND THE INVERT OF THE WATER MAIN. IF FIELD CONDITIONS ARE SUCH THAT THIS SEPARATION CAN NOT BE MAINTAINED, THE SEWER SHALL BE CONSTRUCTED OF MECHANICAL JOINT DUCTILE IRON PIPE WHICH SHALL BE PRESSURE TESTED TO 150 PSI. THE DUCTILE IRON PIPE MUST BE CENTERED ON THE CROSSING SO THAT THE JOINTS ARE AT LEAST TEN (10) FEET ON EITHER SIDE OF THE CROSSING. NO SEPARATE PAYMENT SHALL BE MADE FOR WORK TO INSURE COMPLIANCE WITH THIS SEPARATION CRITERION. MAINTENANCE OF ADEQUATE SEPARATION SHALL BE CONSIDERED AN INTEGRAL PART OF THE UNIT PRICE BID FOR SEWER PIPE.
23. **TESTING** - THE WATER LINES SHALL BE TESTED IN ACCORDANCE WITH THE TECHNICAL SPECIFICATIONS IN THE PRESENCE OF THE ENGINEER AND THE OWNER.
24. **NOTICE** - THE CONTRACTOR SHALL NOT MOVE EQUIPMENT OR MATERIAL TO THE WORK SITE. NOR BEGIN ANY CONSTRUCTION PRIOR TO THE DATE SPECIFIED IN THE 'NOTICE TO PROCEED'. THE CONTRACTOR MUST NOTIFY THE OWNER AND ENGINEER PRIOR TO OCCUPYING THE SITE IN ACCORDANCE WITH THE REQUIREMENTS OF THE TECHNICAL SPECIFICATIONS.
25. **TRAFFIC CONTROL** - THE CONTRACTOR'S WORK WILL DISTURB NUMEROUS PRIVATE DRIVEWAYS AND SUBSTANTIAL PORTIONS OF PUBLIC THOROUGHFARES. THE TERRAIN DOES NOT LEND ITSELF TO DETOURS. CONSEQUENTLY, THE CONTRACTOR MUST OBSERVE THE FOLLOWING TRAFFIC PRINCIPLES:
  - a. ACCESS TO RESIDENCE DRIVE MAY NOT BE INTERRUPTED FOR MORE THAN THREE (3) HOURS AT ANY ONE TIME
  - b. ACCESS TO ALL DRIVEWAYS AND PUBLIC THOROUGHFARES MUST BE RESTORED AT THE END OF EACH WORKDAY.
  - c. WORK WITHIN THE LIMITS OF PUBLIC THOROUGHFARE MAY ONLY BE CONDUCTED BETWEEN THE HOURS OF 8:30 A.M. AND 12:00 NOON, BETWEEN 12:30 P.M. AND 3:30 P.M., AND BETWEEN 6:00 P.M. AND 9:30 P.M. THE CONTRACTOR MUST POST SIGNS ADJACENT TO THE WORK STATING THE ROADWAY WILL BE CLOSED DURING THE POSTED HOURS AT LEAST ONE (1) DAY IN ADVANCE OF THE PROPOSED ROAD CLOSURE.
  - d. THE CONTRACTOR MUST MAKE SPECIAL PROVISIONS FOR ACCESS FOR EMERGENCY VEHICLES: POLICE, FIRE AND AMBULANCE.
  - e. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY SAFETY DEVICES IN THE FORM OF SIGNS, FLASHERS, BARRICADES, ETC. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR CLAIMS ARISING FROM THE PUBLIC WITH RESPECT TO HIS TRAFFIC CONTROL ACTIVITIES.
26. **SEEDING** - ALL DISTURBED AREAS SHALL BE SEEDED IN ACCORDANCE WITH TECHNICAL SPECIFICATIONS.
27. **PROTECTION OF TREES** - CARE SHALL BE TAKEN DURING CONSTRUCTION TO AVOID DAMAGE TO VEGETATION. ORNAMENTAL SHRUBBERY AND TREE BRANCHES SHALL BE TEMPORARILY TIED BACK, WHERE APPROPRIATE, TO MINIMIZE DAMAGE. TREES WHICH RECEIVE DAMAGE TO THE BRANCHES SHALL BE TRIMMED OF THOSE BRANCHES TO IMPROVE THE APPEARANCE OF THE TREE. TREE TRUNKS RECEIVING DAMAGE FROM EQUIPMENT SHALL BE TREATED WITH A TREE DRESSING.
28. **TREE REMOVAL** IN PROJECT AREA IS RESTRICTED TO LESS THAN 4" IN DIAMETER FROM APRIL 1st TO NOVEMBER 15th UNLESS APPROVAL IS GRANTED BY U.S. FISH AND WILDLIFE.

**KYDOH NOTES**

1. ALL EFFECTED KYTC DITCHLINES SHALL REMAIN FREE OF EXCESS SILT OR EROSION AND CONSTRUCTED TO THE NORMAL TYPICAL SECTION OF THE ROADWAY WITH A MINIMUM DEPTH OF 18 INCHES FROM THE SHOULDER BREAK POINT.
2. ALL NECESSARY STEPS SHALL BE TAKEN TO PREVENT EROSION OR SILTATION OF THE PUBLIC RIGHT-OF-WAY, ADJOINING PROPERTY AND WATERWAYS.
3. ALL VALVES TO BE FLUSH W/ EXISTING GRADE.
4. ALL WATER LINE LOCATED WITHIN STATE HIGHWAY R.O.W. SHALL BE CONSTRUCTED OUT AND AROUND THE END OF ALL EXISTING CULVERTS AND HEADWALLS.
5. UNDERGROUND UTILITIES INSTALLED INSIDE STATE RIGHT-OF-WAY SHALL BE LOCATED WITHIN 3-5 FEET FROM THE EDGE OF THE RIGHT-OF-WAY UNLESS OTHERWISE SHOWN ON THE PLANS.
6. ALL UNDERGROUND UTILITIES SHOWN IN THE RIGHT-OF-WAY SHALL BE INSTALLED WITH A MINIMUM DEPTH OF COVER OF 42 INCHES.
7. UNDERGROUND UTILITIES CROSSING ANY ENTRANCE OR CROSSROAD PAVED WITH CONCRETE OR ASPHALT SURFACE INSIDE STATE RIGHT-OF-WAY SHALL BE INSTALLED BY BORING UNLESS WRITTEN PERMISSION TO OPEN CUT IS OBTAINED FROM THE PROPERTY OWNER AND APPROVED BY THE KYTC DISTRICT PERMITS ENGINEER.
8. UNDERGROUND UTILITIES SHALL NOT BE INSTALLED IN EMBANKMENT FILLS OR BETWEEN EDGE OF PAVEMENT AND DITCHLINE UNLESS SPECIFICALLY NOTED ON PERMITTED PLANS.
9. FIRE HYDRANTS OR UTILITY SERVICE BOXES SHALL BE LOCATED WITHIN 2 FEET FROM THE EDGE OF RIGHT-OF-WAY LINE, OR OFF RIGHT-OF-WAY.
10. CONTACT THE DISTRICT PERMITS ENGINEER AT KYC-DOH #9, FLEMINGSBURG, KY AT (606) 845-2551 OR 1-800-817-2551 PRIOR TO BEGINNING WORK.

**CONTAMINATION PREVENTION REQUIREMENTS**

1. ALL PIPING, VALVES, FITTINGS, ETC. DELIVERED TO THE JOB SITE SHALL BE STORED ELEVATED ABOVE THE GROUND AND SHALL BE COVERED WITH PLASTIC, TARPS OR SIMILAR MEANS TO PROTECT FROM EXPOSURE TO DUST AND DEBRIS.
2. ALL PIPING, FITTINGS AND VALVES SHALL BE THOROUGHLY CLEANED OF DUST, DIRT AND DEPOSITS BY SWABBING OR OTHER MEANS ACCEPTABLE. EACH COMPONENT SHALL BE CLEANED ON THE SAME DAY IT IS TO BE INSTALLED.
3. ALL OPENINGS IN THE PIPELINE SHALL BE CLOSED WITH AN APPROVED WATERTIGHT PLUG AT THE END OF EACH DAY WHEN PIPE LAYING HAS STOPPED, OR FOR OTHER REASONS SUCH AS REST OR MEAL BREAKS.

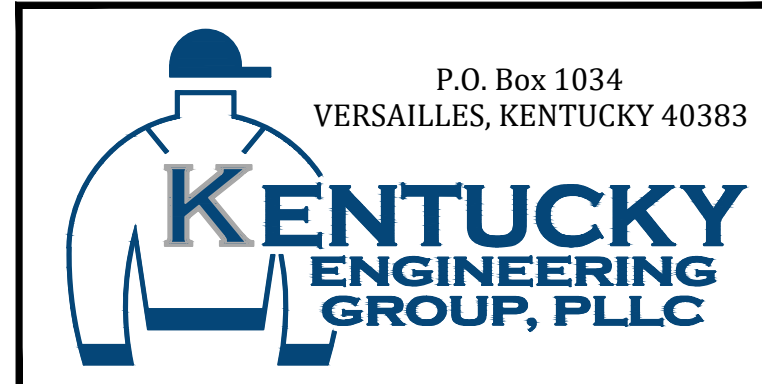
P:\PROJECTS\Bath County Water District\22015-2022 Improvements and Upgrades\DWG\Tank Rehab\22015 G2 - Tanks.dwg REG 2/01/23

IT IS A VIOLATION OF LAW FOR ANY PERSON TO ALTER THIS DRAWING WITHOUT WRITTEN PERMISSION FROM KENTUCKY ENGINEERING GROUP, PLLC AND ACTING UNDER THE DIRECTION OF A LICENSED ENGINEER.

THIS DRAWING WAS PREPARED AT THE SCALE INDICATED. INACCURACIES IN THE STATED SCALE MAY BE INTRODUCED WHEN DRAWINGS ARE REPRODUCED BY ANY MEANS. USE THE GRAPHIC SCALE BAR IN THE DRAWING OR TITLE BLOCK TO DETERMINE THE ACTUAL SCALE.

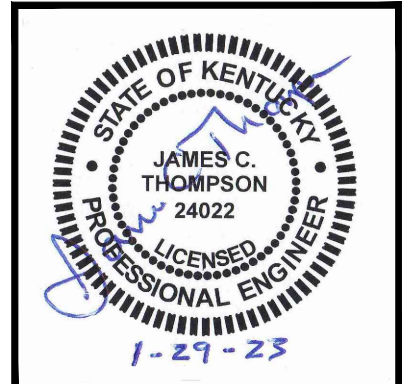
NO.	DATE	REVISIONS	BY

DATE:	JANUARY 2023
PROJECT MGR:	JCT
DRAWN BY:	JAB
CHECKED BY:	JCT
SCALE:	AS NOTED
2023 © Kentucky Engineering Group, PLLC	



**2022 WATER SYSTEM  
IMPROVEMENTS PROJECT**  
 WATER TANK REHABILITATION  
 FOR THE  
 BATH COUNTY WATER DISTRICT

**GENERAL NOTES**

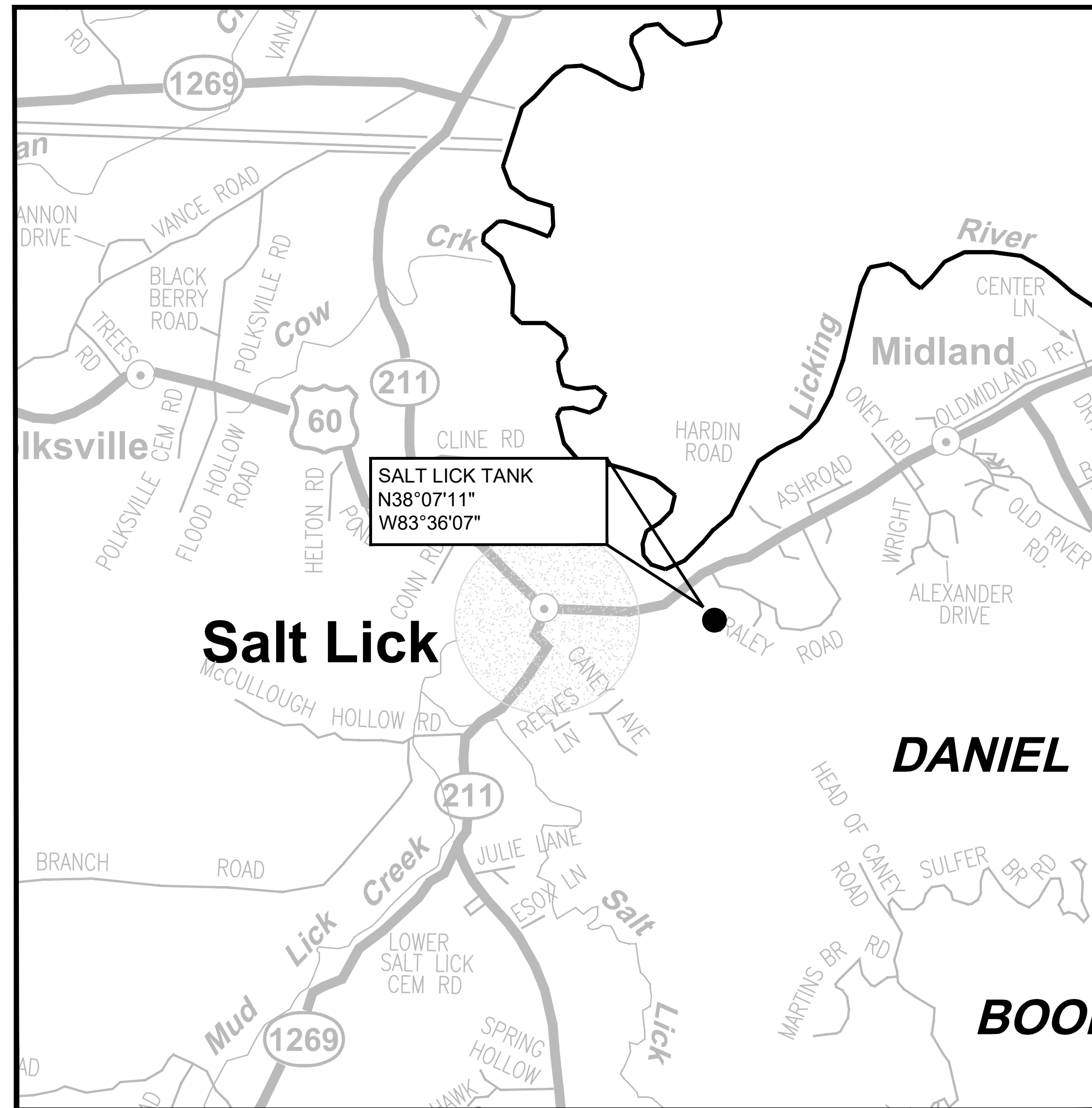


PROJECT NO. 22015
SHEET NO. G-2

BID DOCUMENTS



P:\PROJECTS\Bath County Water District\22015-2022 Improvements and Upgrades\DWG\Tank Rehab\22015 C1 - Tanks.dwg REG 2/01/23



**LOCATION MAP - SALT LICK TANK**  
NOT TO SCALE



**ELEVATION VIEW - SALT LICK TANK**  
NOT TO SCALE

**SALT LICK TANK**

GENERAL INFORMATION

- 500,000 GALLON WELDED STEEL TANK
- ~66' HEIGHT
- ~40' DIAMETER
- YEAR BUILT 2004

**TANK IMPROVEMENTS:**

INTERIOR

- SSPC SP 10 COMMERCIAL BLAST
- CAULK ALL SIDEWALL/ROOF SEAMS
- PAINT - PER SPECIFICATIONS

EXTERIOR

- POWER WASH EXTERIOR 3000 PSI TO REMOVE LOOSE MATERIAL AND DEBRIS
- SPOT REPAIR CLEANING SP 3 POWER TOOL CLEANING ON ALL CORROSION AREAS
- SPOT PRIME ALL CLEANED AREAS W/ EPOXY PRIMER (PER SPECIFICATIONS)
- APPLY FLEXIBLE SEALANT TO BASE

GENERAL

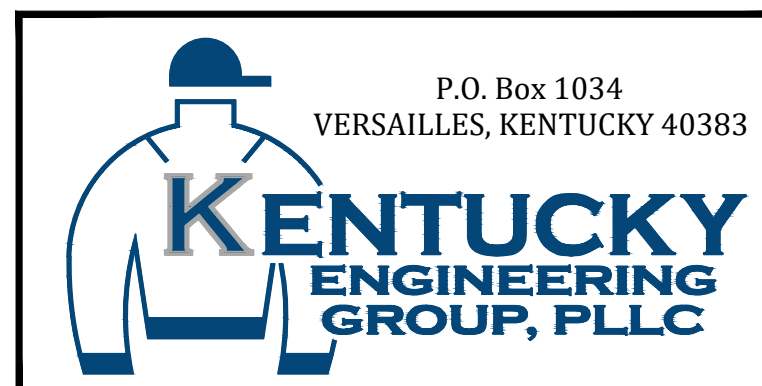
- ANY ACCESS ROAD IMPROVEMENTS NECESSARY FOR COMPLETING THIS WORK SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR

IT IS A VIOLATION OF LAW FOR ANY PERSON TO ALTER THIS DRAWING WITHOUT WRITTEN PERMISSION FROM KENTUCKY ENGINEERING GROUP, PLLC AND ACTING UNDER THE DIRECTION OF A LICENSED ENGINEER.

THIS DRAWING WAS PREPARED AT THE SCALE INDICATED. INACCURACIES IN THE STATED SCALE MAY BE INTRODUCED WHEN DRAWINGS ARE REPRODUCED BY ANY MEANS. USE THE GRAPHIC SCALE BAR IN THE DRAWING OR TITLE BLOCK TO DETERMINE THE ACTUAL SCALE.

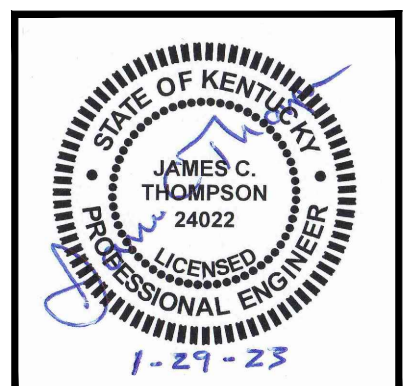
NO.	DATE	REVISIONS	BY

DATE:	JANUARY 2023
PROJECT MGR:	JCT
DRAWN BY:	JAB
CHECKED BY:	JCT
SCALE:	AS NOTED
2023 © Kentucky Engineering Group, PLLC	



2022 WATER SYSTEM  
IMPROVEMENTS PROJECT  
WATER TANK REHABILITATION  
FOR THE  
BATH COUNTY WATER DISTRICT

SALT LICK TANK  
LOCATION MAP/GENERAL  
NOTES

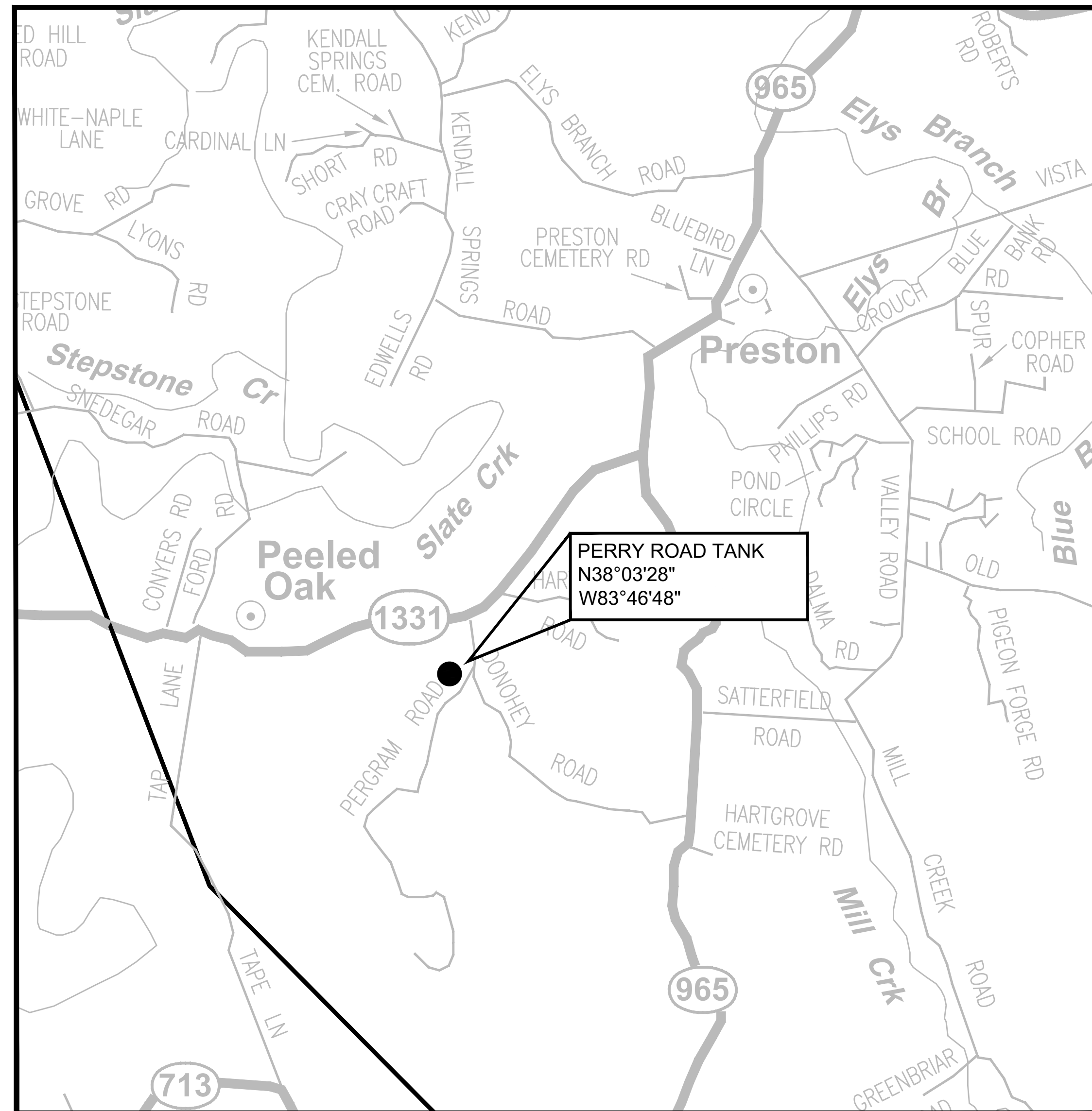


PROJECT NO.	22015
SHEET NO.	C-1

BID DOCUMENTS



P:\PROJECTS\Bath County Water District\22015-2022 Improvements and Upgrades\DWG\Tank Rehab\22015 C2 - Tanks.dwg REG 2/01/23



**LOCATION MAP - PERRY ROAD TANK**  
NOT TO SCALE



**ELEVATION VIEW - PERRY ROAD TANK**  
NOT TO SCALE

**PERRY ROAD TANK**

GENERAL INFORMATION

- 100,000 GALLON WELDED STEEL TANK
- ~34' HEIGHT
- ~23' DIAMETER
- LAST REHABILITATION PROJECT 2006

**TANK IMPROVEMENTS:**

INTERIOR

- POWER WASH TO REMOVE ALL SEDIMENT AND STAIN
- POWER TOOL CLEAN SSPC SP-3 ALL CORROSION SPOTS
- PAINT - PER SPECIFICATIONS

EXTERIOR

- POWER WASH EXTERIOR 3000 PSI TO REMOVE LOOSE MATERIAL AND DEBRIS
- SPOT REPAIR CLEANING SP 3 POWER TOOL CLEANING ON ALL CORROSION AREAS
- SPOT PRIME ALL CLEANED AREAS W/ EPOXY PRIMER (PER SPECIFICATIONS)
- APPLY FLEXIBLE SEALANT TO BASE

GENERAL

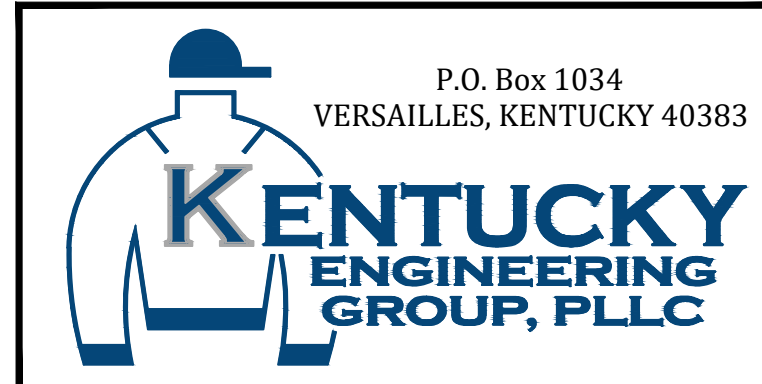
- ANY ACCESS ROAD IMPROVEMENTS NECESSARY FOR COMPLETING THIS WORK SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR

IT IS A VIOLATION OF LAW FOR ANY PERSON TO ALTER THIS DRAWING WITHOUT WRITTEN PERMISSION FROM KENTUCKY ENGINEERING GROUP, PLLC AND ACTING UNDER THE DIRECTION OF A LICENSED ENGINEER.

THIS DRAWING WAS PREPARED AT THE SCALE INDICATED. INACCURACIES IN THE STATED SCALE MAY BE INTRODUCED WHEN DRAWINGS ARE REPRODUCED BY ANY MEANS. USE THE GRAPHIC SCALE BAR IN THE DRAWING OR TITLE BLOCK TO DETERMINE THE ACTUAL SCALE.

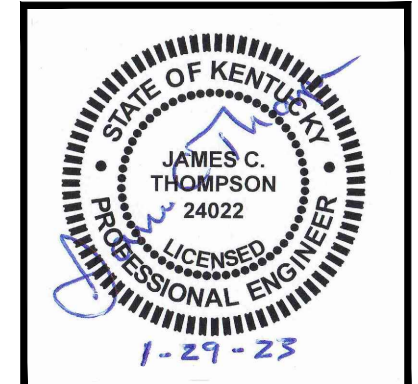
NO.	DATE	REVISIONS	BY

DATE:	JANUARY 2023
PROJECT MGR:	JCT
DRAWN BY:	JAB
CHECKED BY:	JCT
SCALE:	AS NOTED
2023 © Kentucky Engineering Group, PLLC	



2022 WATER SYSTEM IMPROVEMENTS PROJECT  
WATER TANK REHABILITATION FOR THE BATH COUNTY WATER DISTRICT

PERRY ROAD TANK  
LOCATION MAP/GENERAL NOTES

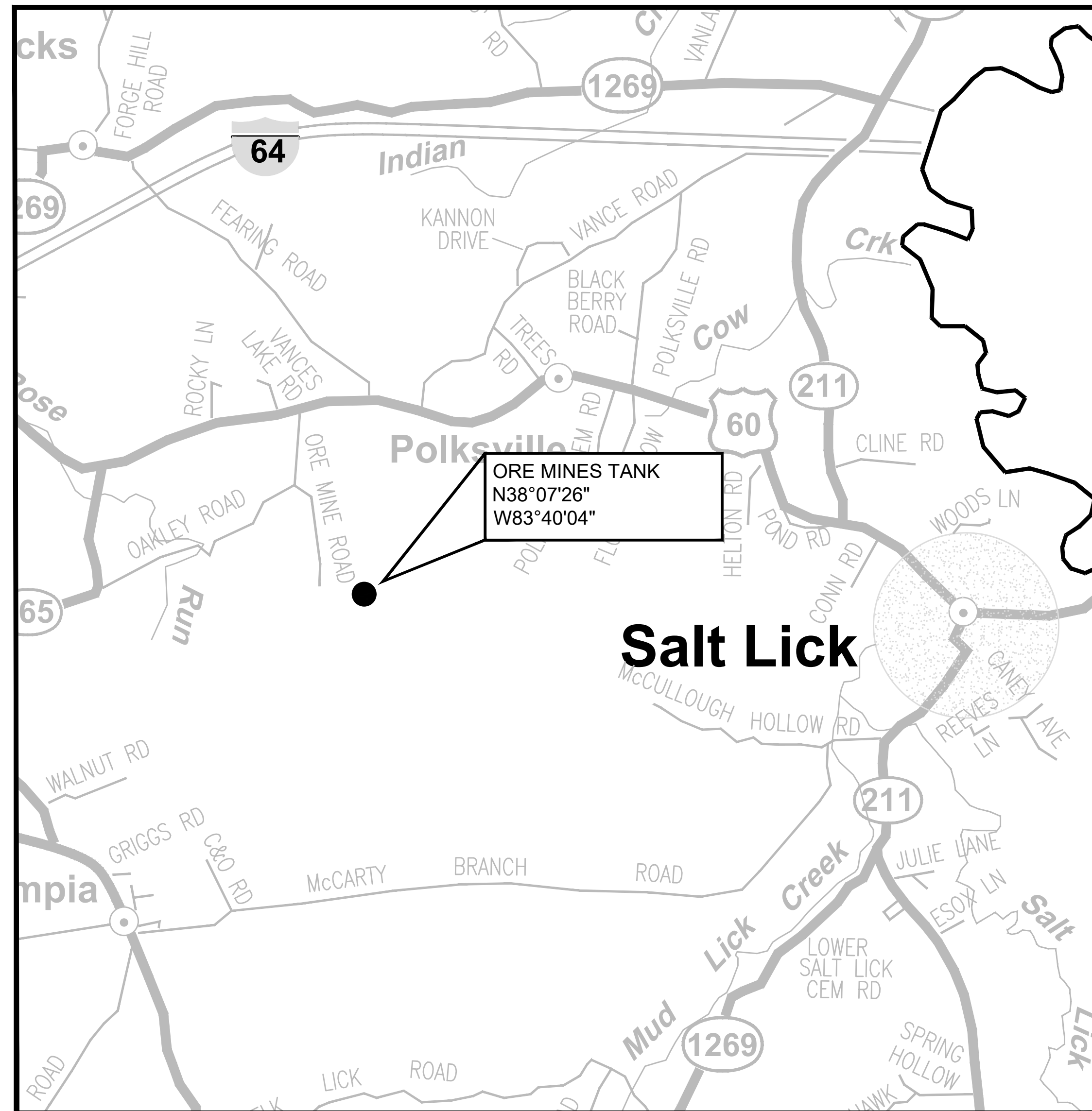


PROJECT NO.	22015
SHEET NO.	C-2

BID DOCUMENTS



P:\PROJECTS\Bath County Water District\22015-2022 Improvements and Upgrades\DWG\Tank Rehab\22015 C3 - Tanks.dwg REG 2/01/23



**LOCATION MAP - ORE MINES TANK**  
NOT TO SCALE



**ELEVATION VIEW - ORE MINES TANK**  
NOT TO SCALE

**ORE MINES TANK**

GENERAL INFORMATION

- 250,000 GALLON WELDED STEEL TANK
- ~24' HEIGHT
- ~43' DIAMETER
- LAST REHABILITATION PROJECT 2006

**TANK IMPROVEMENTS:**

INTERIOR

- POWER WASH TO REMOVE ALL SEDIMENT AND STAIN
- REMOVE WIRE CONNECTION ON LOWER SIDEWALL AND WELD NEW PLATE
- REPAIR INTERIOR LADDER
- POWER TOOL CLEAN SSPC SP-3 ALL CORROSION SPOTS
- PAINT - PER SPECIFICATIONS

EXTERIOR

- POWER WASH EXTERIOR 3000 PSI TO REMOVE LOOSE MATERIAL AND DEBRIS
- SPOT REPAIR CLEANING SP 3 POWER TOOL CLEANING ON ALL CORROSION AREAS
- SPOT PRIME ALL CLEANED AREAS W/EPOXY PRIMER (PER SPECIFICATIONS)
- RELOCATE SOLAR PANEL

GENERAL

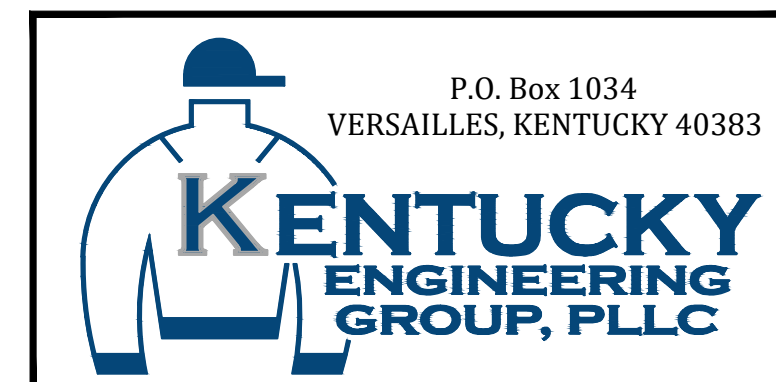
- ANY ACCESS ROAD IMPROVEMENTS NECESSARY FOR COMPLETING THIS WORK SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR

IT IS A VIOLATION OF LAW FOR ANY PERSON TO ALTER THIS DRAWING WITHOUT WRITTEN PERMISSION FROM KENTUCKY ENGINEERING GROUP, PLLC AND ACTING UNDER THE DIRECTION OF A LICENSED ENGINEER.

THIS DRAWING WAS PREPARED AT THE SCALE INDICATED. INACCURACIES IN THE STATED SCALE MAY BE INTRODUCED WHEN DRAWINGS ARE REPRODUCED BY ANY MEANS. USE THE GRAPHIC SCALE BAR IN THE DRAWING OR TITLE BLOCK TO DETERMINE THE ACTUAL SCALE.

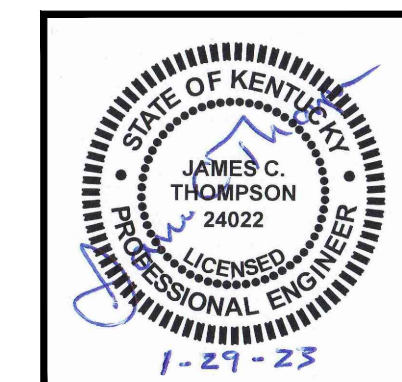
NO.	DATE	REVISIONS	BY

DATE:	JANUARY 2023
PROJECT MGR:	JCT
DRAWN BY:	JAB
CHECKED BY:	JCT
SCALE:	AS NOTED
2023 © Kentucky Engineering Group, PLLC	



2022 WATER SYSTEM IMPROVEMENTS PROJECT  
WATER TANK REHABILITATION FOR THE BATH COUNTY WATER DISTRICT

ORE MINES TANK  
LOCATION MAP/GENERAL NOTES

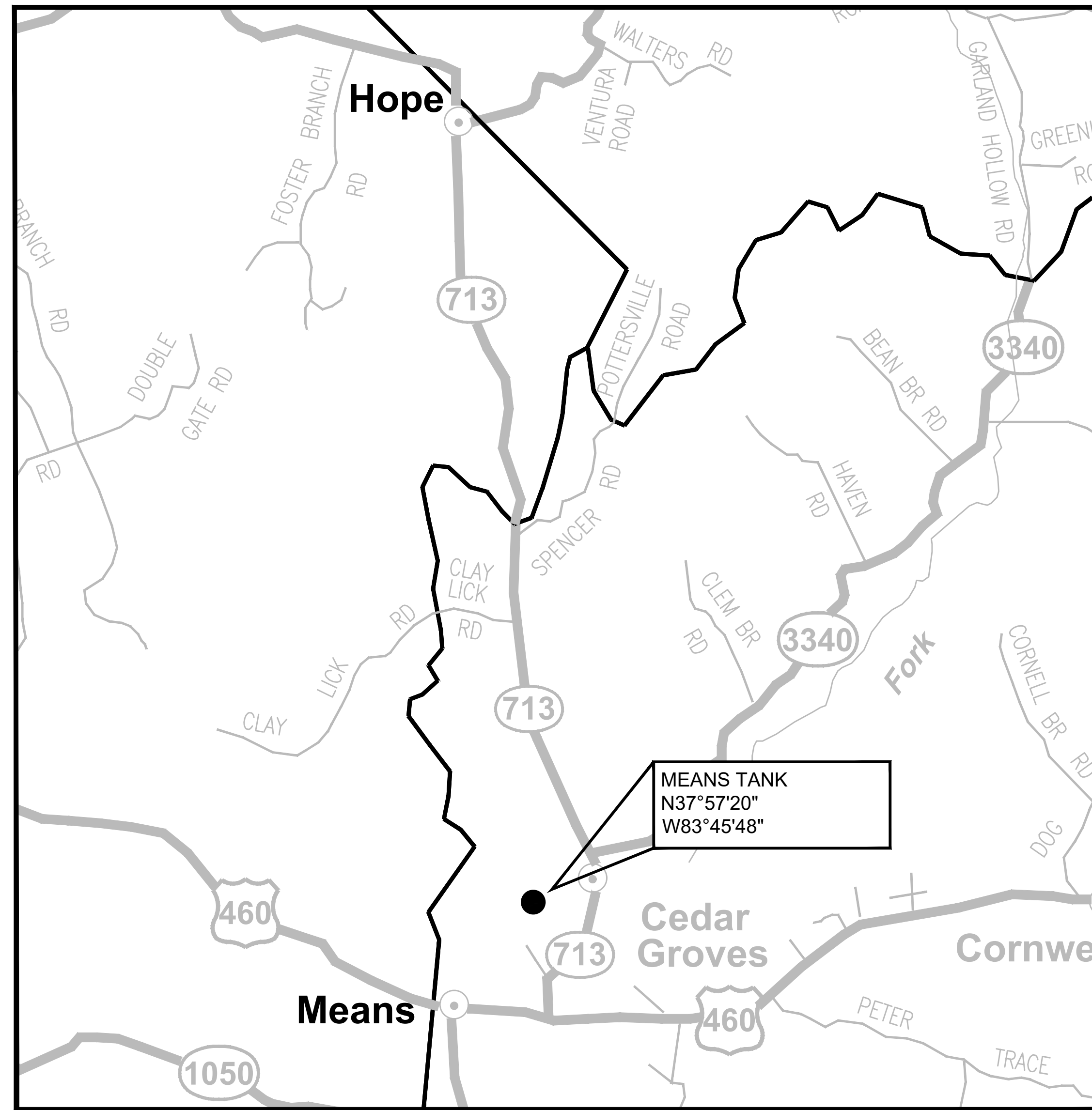


PROJECT NO. 22015
SHEET NO. C-3

BID DOCUMENTS



P:\PROJECTS\Bath County Water District\22015-2022 Improvements and Upgrades\DWG\Tank Rehab\22015 C4 - Tanks.dwg REG 2/01/23



**LOCATION MAP - MEANS TANK**  
NOT TO SCALE



**ELEVATION VIEW - MEANS TANK**  
NOT TO SCALE

**MEANS TANK**

GENERAL INFORMATION

- 156,000 GALLON BOLTED STEEL (GLASS LINED) TANK
- ~42' HEIGHT
- ~25' DIAMETER
- BUILT 2005

**TANK IMPROVEMENTS:**

INTERIOR

- POWER WASH TO REMOVE ALL SEDIMENT AND STAIN
- INSTALL NEW SACRIFICIAL ANODES

GENERAL

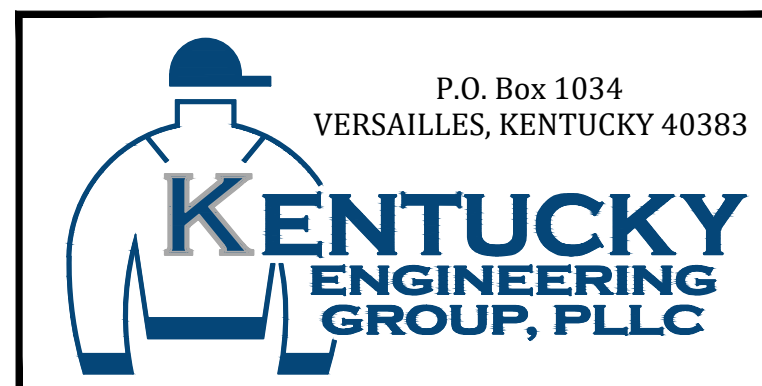
- ANY ACCESS ROAD IMPROVEMENTS NECESSARY FOR COMPLETING THIS WORK SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR

IT IS A VIOLATION OF LAW FOR ANY PERSON TO ALTER THIS DRAWING WITHOUT WRITTEN PERMISSION FROM KENTUCKY ENGINEERING GROUP, PLLC AND ACTING UNDER THE DIRECTION OF A LICENSED ENGINEER.

THIS DRAWING WAS PREPARED AT THE SCALE INDICATED. INACCURACIES IN THE STATED SCALE MAY BE INTRODUCED WHEN DRAWINGS ARE REPRODUCED BY ANY MEANS. USE THE GRAPHIC SCALE BAR IN THE DRAWING OR TITLE BLOCK TO DETERMINE THE ACTUAL SCALE.

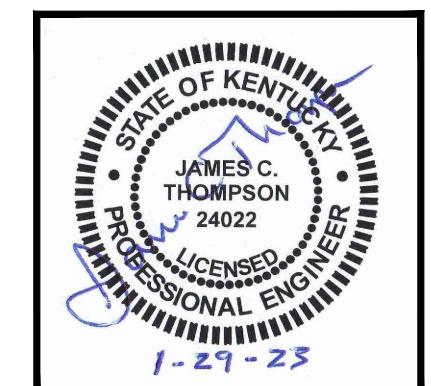
NO.	DATE	REVISIONS	BY

DATE:	JANUARY 2023
PROJECT MGR:	JCT
DRAWN BY:	JAB
CHECKED BY:	JCT
SCALE:	AS NOTED
2023 © Kentucky Engineering Group, PLLC	



2022 WATER SYSTEM  
IMPROVEMENTS PROJECT  
WATER TANK REHABILITATION  
FOR THE  
BATH COUNTY WATER DISTRICT

MEANS TANK  
LOCATION MAP/GENERAL  
NOTES

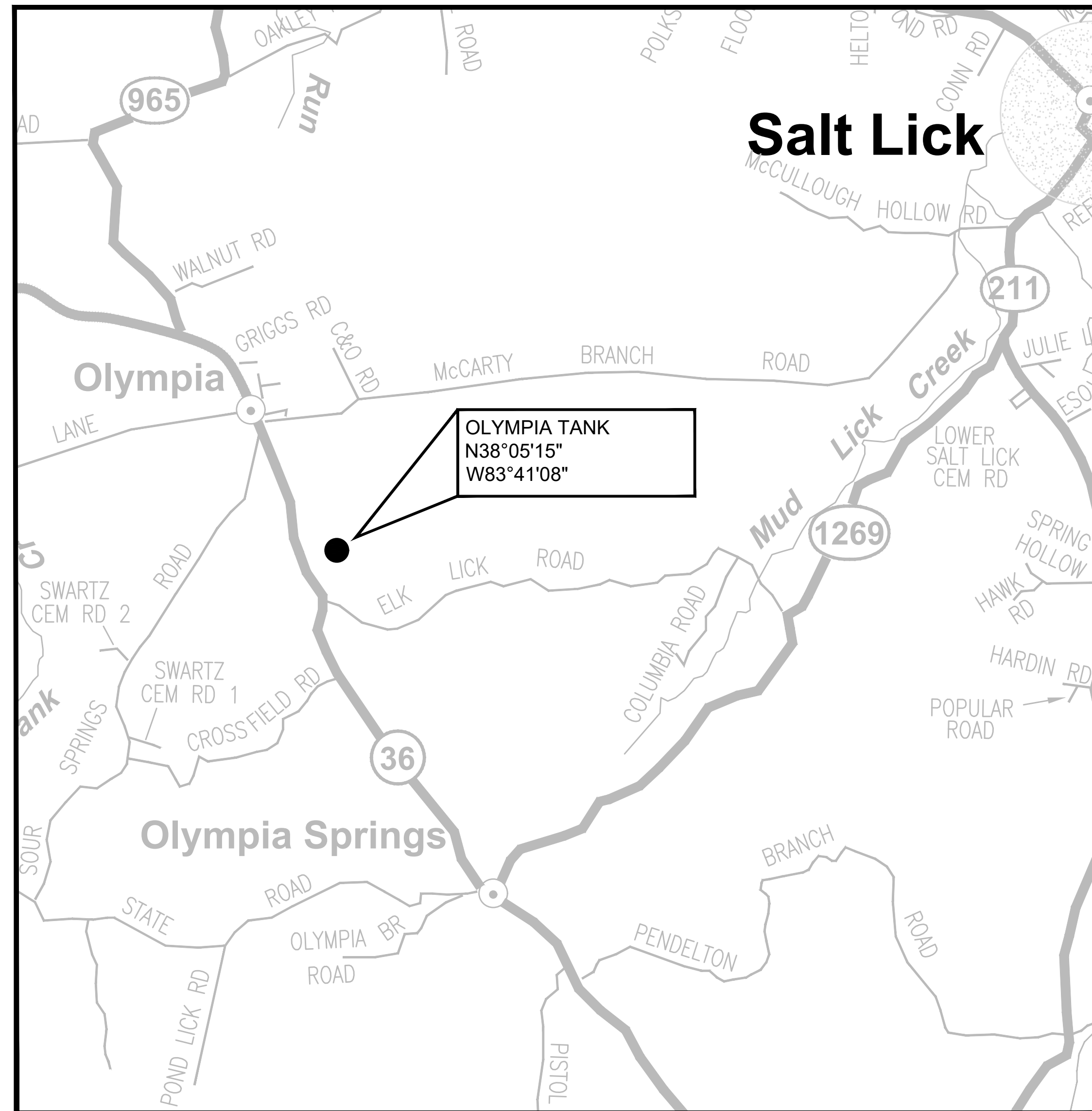


PROJECT NO.	22015
SHEET NO.	C-4

BID DOCUMENTS



P:\PROJECTS\Bath County Water District\2015-2022 Improvements and Upgrades\DWG\Tank Rehab\2015 C5 - Tanks.dwg REG 2/01/23



**LOCATION MAP - OLYMPIA TANK**  
NOT TO SCALE



**ELEVATION VIEW - OLYMPIA TANK**  
NOT TO SCALE

**OLYMPIA TANK**

GENERAL INFORMATION

- 234,000 GALLON BOLTED STEEL (GLASS LINED) TANK
- ~42' HEIGHT
- ~31' DIAMETER
- BUILT 2006

**TANK IMPROVEMENTS:**

INTERIOR

- POWER WASH TO REMOVE ALL SEDIMENT AND STAIN
- INSTALL NEW SACRIFICIAL ANODES

EXTERIOR

- POWER WASH TO REMOVE MILDEW STAINING

GENERAL

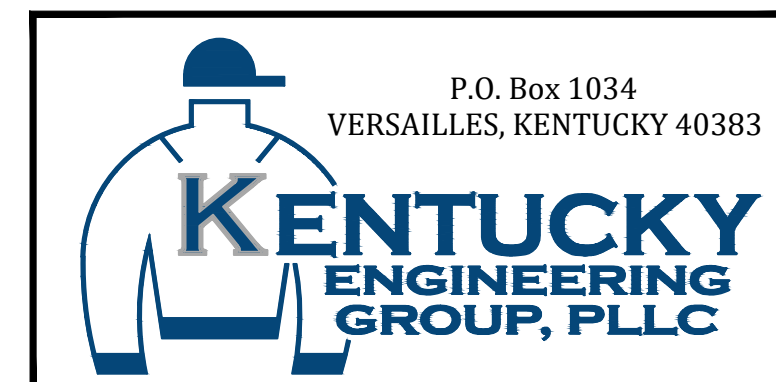
- ANY ACCESS ROAD IMPROVEMENTS NECESSARY FOR COMPLETING THIS WORK SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR

IT IS A VIOLATION OF LAW FOR ANY PERSON TO ALTER THIS DRAWING WITHOUT WRITTEN PERMISSION FROM KENTUCKY ENGINEERING GROUP, PLLC AND ACTING UNDER THE DIRECTION OF A LICENSED ENGINEER.

THIS DRAWING WAS PREPARED AT THE SCALE INDICATED. INACCURACIES IN THE STATED SCALE MAY BE INTRODUCED WHEN DRAWINGS ARE REPRODUCED BY ANY MEANS. USE THE GRAPHIC SCALE BAR IN THE DRAWING OR TITLE BLOCK TO DETERMINE THE ACTUAL SCALE.

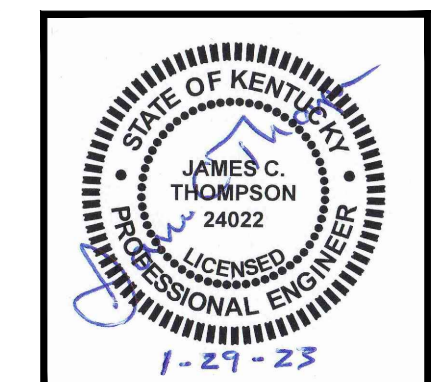
NO.	DATE	REVISIONS	BY

DATE:	JANUARY 2023
PROJECT MGR:	JCT
DRAWN BY:	JAB
CHECKED BY:	JCT
SCALE:	AS NOTED
2023 © Kentucky Engineering Group, PLLC	



2022 WATER SYSTEM  
IMPROVEMENTS PROJECT  
WATER TANK REHABILITATION  
FOR THE  
BATH COUNTY WATER DISTRICT

OLYMPIA TANK  
LOCATION MAP/GENERAL  
NOTES

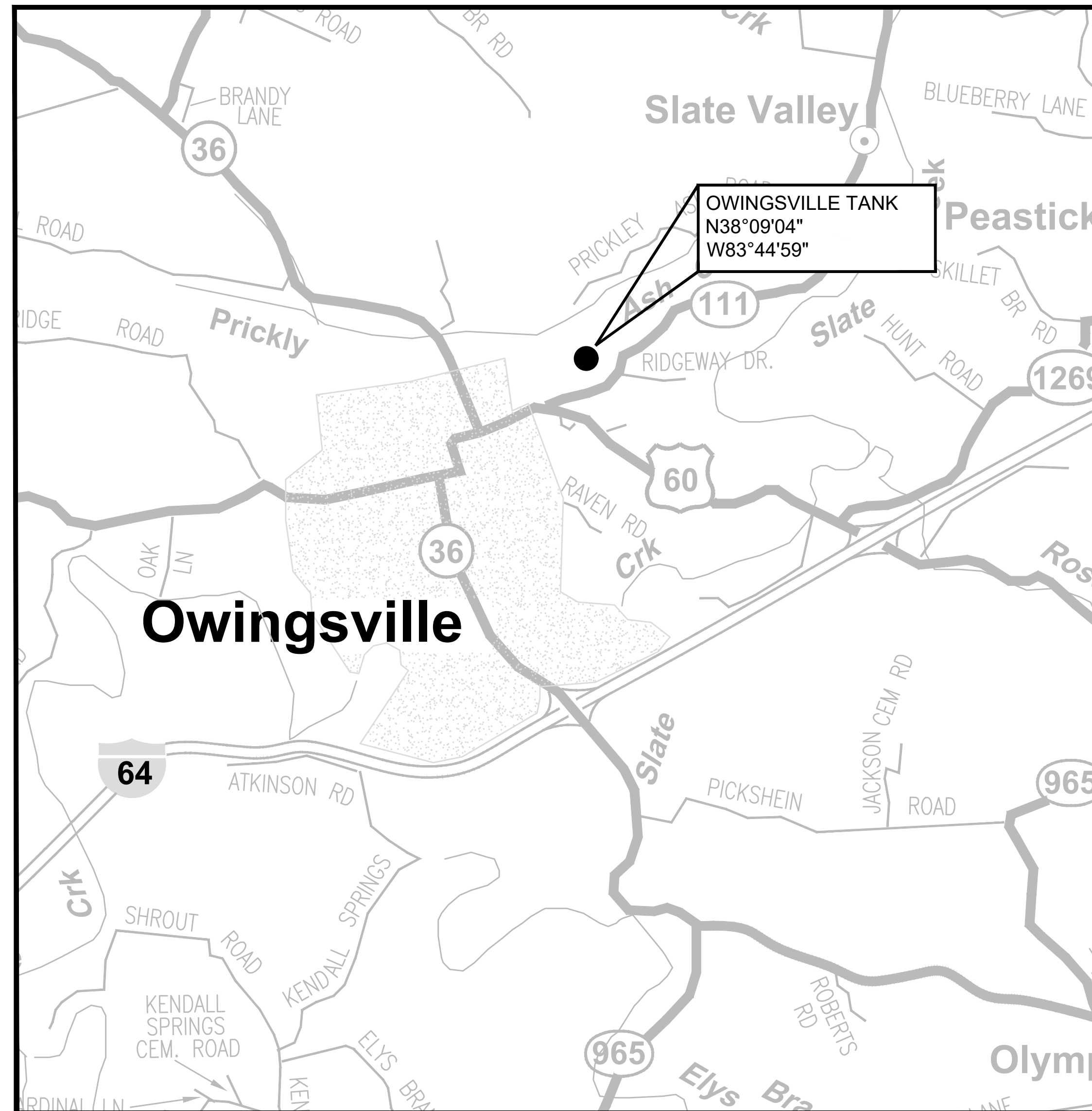


PROJECT NO.	22015
SHEET NO.	C-5

BID DOCUMENTS



P:\PROJECTS\Bath County Water District\22015-2022 Improvements and Upgrades\DWG\Tank Rehab\22015 C6 - Tanks.dwg REG 2/01/23



**LOCATION MAP - OWINGSVILLE TANK**  
NOT TO SCALE



**ELEVATION VIEW - OWINGSVILLE TANK**  
NOT TO SCALE

**OWINGSVILLE TANK**

GENERAL INFORMATION

- 100,000 GALLON STEEL ELEVATED TANK
- ~100' HEIGHT
- ~31" DIAMETER
- BUILT 1988 / EXTERIOR REHAB 2006

**TANK IMPROVEMENTS:**

INTERIOR

- SSPC SP 10 NEAR WHITE COMMERCIAL BLAST
- PAINT - PER SPECIFICATIONS
- REMOVE CATHODIC PROTECTION SYSTEM

EXTERIOR

- POWER WASH EXTERIOR 3000 PSI TO REMOVE LOOSE MATERIAL AND DEBRIS
- SPOT REPAIR CLEANING SP 3 POWER TOOL CLEANING ON ALL CORROSION AREAS
- SPOT PRIME ALL CLEANED AREAS W/EPOXY PRIMER (PER SPECIFICATIONS)
- INSTALL ROOF ANTENNA CORRAL AND RELOCATE ANTENNAS

GENERAL

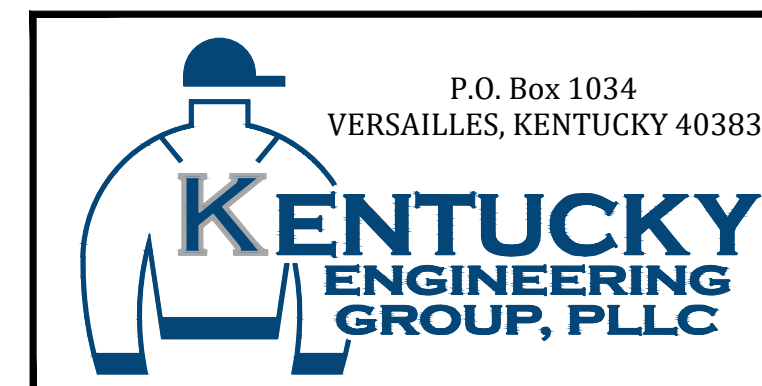
- ANY ACCESS ROAD IMPROVEMENTS NECESSARY FOR COMPLETING THIS WORK SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR

IT IS A VIOLATION OF LAW FOR ANY PERSON TO ALTER THIS DRAWING WITHOUT WRITTEN PERMISSION FROM KENTUCKY ENGINEERING GROUP, PLLC AND ACTING UNDER THE DIRECTION OF A LICENSED ENGINEER.

THIS DRAWING WAS PREPARED AT THE SCALE INDICATED. INACCURACIES IN THE STATED SCALE MAY BE INTRODUCED WHEN DRAWINGS ARE REPRODUCED BY ANY MEANS. USE THE GRAPHIC SCALE BAR IN THE DRAWING OR TITLE BLOCK TO DETERMINE THE ACTUAL SCALE.

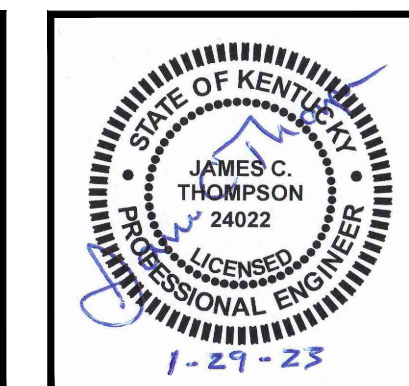
NO.	DATE	REVISIONS	BY

DATE:	JANUARY 2023
PROJECT MGR:	JCT
DRAWN BY:	JAB
CHECKED BY:	JCT
SCALE:	AS NOTED
2023 © Kentucky Engineering Group, PLLC	



2022 WATER SYSTEM IMPROVEMENTS PROJECT  
WATER TANK REHABILITATION FOR THE BATH COUNTY WATER DISTRICT

OWINGSVILLE TANK  
LOCATION MAP/GENERAL NOTES



PROJECT NO.	22015
SHEET NO.	C-6

BID DOCUMENTS