

CONTRACT No. 5

EAST - WEST INTERCONNECT PROJECT PHASE 2
WATER STORAGE TANK
REHABILITATION

for the

GRAYSON COUNTY WATER DISTRICT

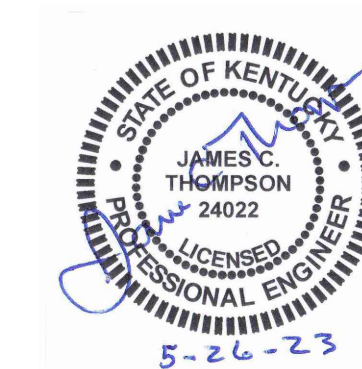
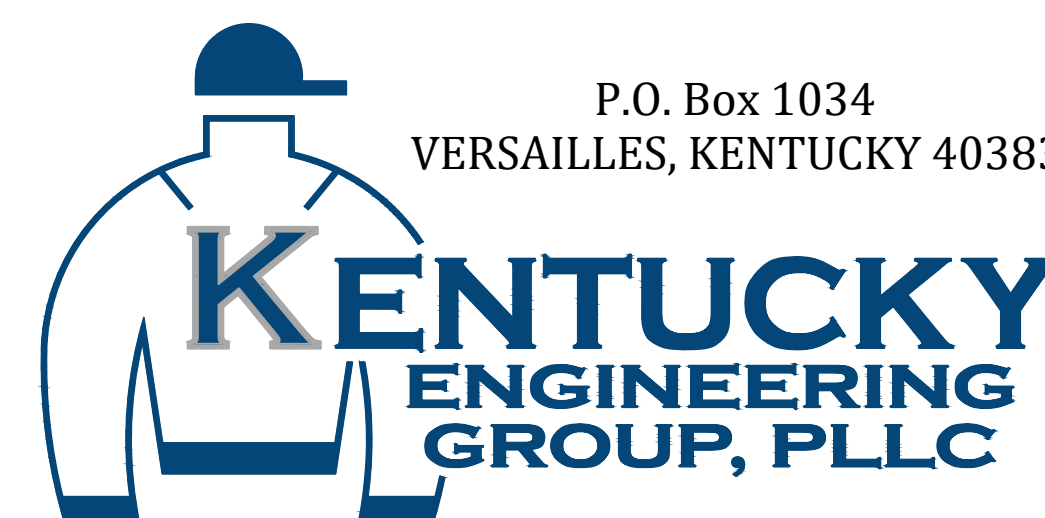
Leitchfield, Kentucky

BOARD MEMBERS:

NANCY CAIN - CHAIRPERSON
KENNETH SHARP - VICE-CHAIRMAN
MICHAEL KIPPER - SECRETARY
CRAIG CONSTANT - TREASURER
KEITH BROOKS - COMMISSIONER
JEREMY WOOSLEY - DISTRICT MANAGER

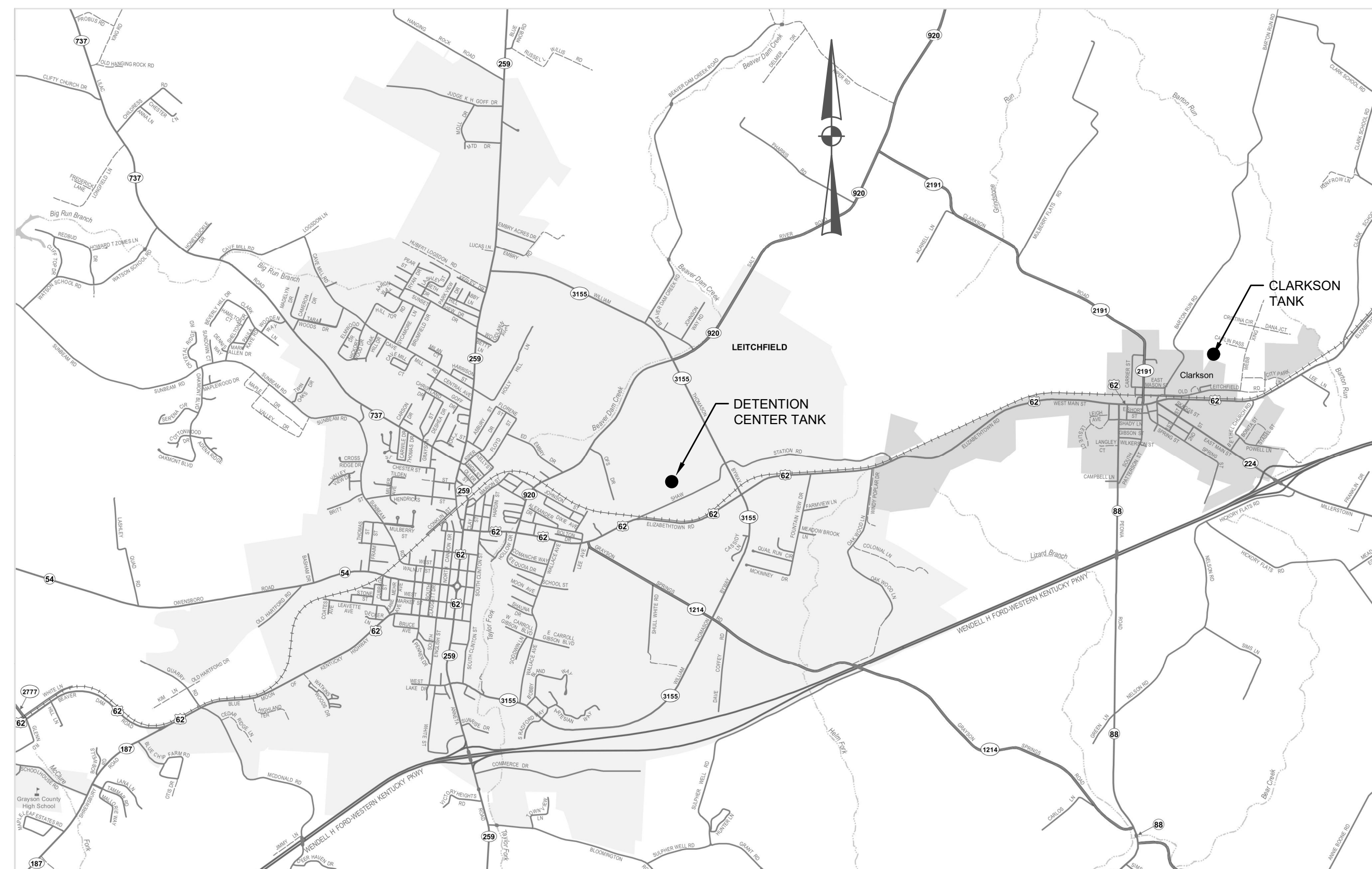
DECEMBER, 2022

PROJECT NO. 21006-05



CONTRACT DOCUMENTS

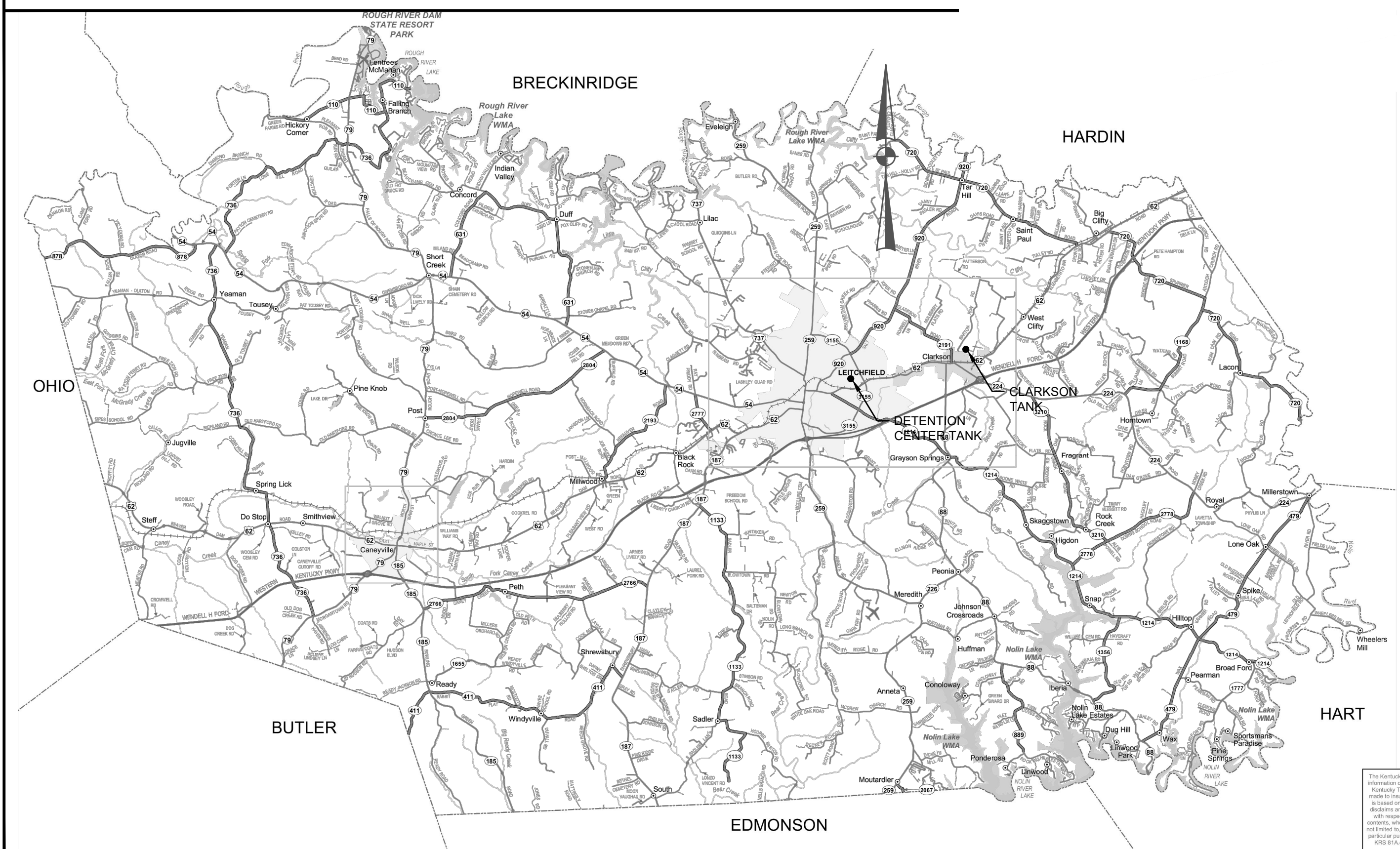
PROJECT LOCATION MAP



CITY OF LEITCHFIELD

NOT TO SCALE

PROJECT LOCATION MAP



GRAYSON COUNTY

NOT TO SCALE

GENERAL NOTES

- CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES AND THE ENGINEER TWO WORKING DAYS (MINIMUM) BEFORE BEGINNING CONSTRUCTION.
- CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE OF TRAFFIC IN ACCORDANCE WITH CITY, COUNTY AND STATE REQUIREMENTS.
- THE CONTRACTOR SHALL MAINTAIN A CURRENT SET OF CONSTRUCTION PLANS ON THE JOB SITE DURING ALL PHASES OF CONSTRUCTION.
- ALL CONSTRUCTION AND INSTALLATION OF MATERIALS BEING USED SHALL BE IN CONFORMANCE WITH THE PLANS AND SPECIFICATIONS. SUBSTITUTIONS AND DEVIATION SHALL BE PERMITTED ONLY WHEN WRITTEN APPROVAL HAS BEEN ISSUED BY THE ENGINEER.
- SHOP DRAWINGS OF ALL MATERIALS BEING USED SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO INSTALLATION.
- EXISTING UTILITIES HAVE NOT BEEN SHOWN, CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UTILITIES. THE CONTRACTOR SHALL COORDINATE WITH A REPRESENTATIVE WHEN WORKING EXISTING UTILITIES.
- THE CONTRACTOR SHALL PROTECT ALL UTILITIES AND OTHER IMPROVEMENTS SHOWN ON THESE PLANS AND ALL OTHER UTILITIES AND OTHER IMPROVEMENTS NOT SHOWN. THE CONTRACTOR SHALL ASSUME ALL RESPONSIBILITY FOR REPAIRS OF UTILITIES AND OTHER IMPROVEMENTS DAMAGED DURING CONSTRUCTION.
- CONTRACTOR SHALL BE RESPONSIBLE FOR THE TEMPORARY REMOVAL/RELOCATION OF TRAILERS, BUILDINGS, FENCES, TREES, SHRUBS, ETC. AND REPLACEMENT OF SAID ITEMS AFTER CONSTRUCTION ACTIVITIES.
- CONTRACTOR IS TO COORDINATE WITH THE PROPERTY OWNERS AS TO WHETHER OR NOT TEMPORARY FENCING IS REQUIRED AND CONSTRUCT IF NECESSARY.
- WHERE UNSTABLE MATERIAL IS ENCOUNTERED OR WHERE THE DEPTH OF EXCAVATION IN EARTH EXCEEDS FIVE (5) FEET, THE SIDES OF THE TRENCH OR EXCAVATION SHALL BE SUPPORTED BY SUBSTANTIAL SHEETING, BRACING, AND SHORING, OR THE TRENCH SIDES SLOPED. SLOPING THE SIDES OF THE DITCH WILL NOT BE PERMITTED IN STREETS, ROADS, NARROW RIGHTS-OF-WAY OR OTHER CONSTRICTED AREAS UNLESS OTHERWISE SPECIFIED. THE STANDARDS OF THE FEDERAL OCCUPATIONAL SAFETY AND HEALTH ACT AND THE KENTUCKY LABOR CABINET SHALL BE FOLLOWED.
- AT THE CONTRACTORS OPTION, CLASS 350 DUCTILE IRON PIPE MAY BE SUBSTITUTED FOR ANY PIPE PARTICULARLY SPECIFIED, BUT AT NO ADDITIONAL COST TO THE OWNER.
- NO PAY ITEM FOR EXTRA TRENCH DEPTH HAS BEEN SET UP. CONTRACTOR SHALL INCLUDE THE COST OF THE ADDITIONAL DEPTH IN HIS BID PRICE.
- A GEOTECHNICAL INVESTIGATION HAS BEEN CARRIED OUT AT THE SITE AND A REPORT IS AVAILABLE UPON REQUEST. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SECURING ANY FURTHER GEOTECHNICAL INFORMATION REQUIRED BEYOND THAT PROVIDED IN THIS REPORT. THIS REPORT DOES NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY TO INVESTIGATE AND MAKE HIS OWN DETERMINATIONS AS TO SOIL TYPES, STABILITY, GROUNDWATER LEVEL, BEARING PRESSURES, ETC. BEFORE BIDDING AND/OR COMMENCING HIS CONSTRUCTION OPERATIONS AFTER EXCAVATION TO FOUNDING ELEVATIONS.
- ALL WATER LINE LOCATED WITHIN STATE HIGHWAY R.O.W. SHALL BE CONSTRUCTED OUT AND AROUND THE END OF ALL EXISTING CULVERTS AND HEADWALLS.
- ALL WATER MAIN SHALL BE DUCTILE IRON PIPE UNLESS OTHERWISE NOTED ON THE PLANS. 16" PIPE AND LARGER SHALL BE CLASS 250.
- UNLESS OTHERWISE NOTED, A SEPERATE BID ITEM HAS NOT BEEN ESTABLISHED FOR FITTINGS. THE FITTINGS INCLUDED BUT NOT LIMITED TO ARE: TEES, BENDS, PLUGS, REDUCERS, SADDLES, CROSSES, COUPLINGS, ETC. CONTRACTOR'S SHALL INCLUDE THE COST OF THESE ITEMS IN THE UNIT PRICE FOR THE PIPE.
- EXISTING UTILITIES, ESPECIALLY GAS LINES AND OIL LINES, MAY BE CATHODICALLY PROTECTED. THEREFORE, DUCTILE IRON PIPE, FITTINGS, GATE VALVES AND/OR BOXES LAID WITHIN 100' OF THESE LINES WITH CATHODIC PROTECTION SHALL BE WRAPPED IN POLYETHYLENE ENCASEMENT MATERIALS AND INSTALLATION SHALL MEET THE REQUIREMENTS OF AWWA'S LATEST REVISION. A SEPERATE PAY ITEM HAS NOT BEEN ESTABLISHED. ALL COST FOR LABOR AND MATERIALS MUST BE INCLUDED IN THE UNIT PRICE FOR THE PIPE.
- ALL AREAS INSIDE OF FENCED TANK SITE TO BE GRADED SMOOTH, COVERED WITH FILTER FABRIC AND 4" OF #9 CRUSHED STONE.
- EVIDENT UTILITIES ARE SHOWN, HOWEVER, IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD LOCATE AND TAG ALL EXISTING UTILITIES BEFORE BEGINNING HIS CONSTRUCTION OPERATIONS. ANY EXISTING UTILITIES DISTURBED BY THE CONTRACTOR DURING CONSTRUCTION SHALL BE REPLACED BY THE CONTRACTOR AT NO ADDITIONAL CHARGE OR COST TO THE OWNER AND ENGINEER.
- TANK MANUFACTURER SHALL SUBMIT TO THE ENGINEER FOR REVIEW. SEVEN (7) SETS OF STRUCTURAL DESIGN CALCULATIONS AND DRAWINGS PREPARED BY AN ENGINEER REGISTERED IN THE STATE OF KENTUCKY FOR EACH TANK AND FOUNDATION PRIOR TO ANY WORK.
- ALL EXCAVATION IS UNCLASSIFIED COMPENSATION FOR ALL EXCAVATION SHALL BE INCLUDED IN LUMP SUM BID.
- REGRADE OF SITE SHALL BE SUCH THAT DRAINAGE IS AWAY FROM TANK FOUNDATION.
- BACKFILL AROUND TANK FOUNDATION SHALL BE SUFFICIENTLY COMPACTED TO PRECLUDE SETTLEMENT AND PONDING OF WATER AROUND THE TANK AND GRADED TO DIVERT RUNOFF AWAY FROM THE STRUCTURES.
- THE FINAL SUBSURFACE CONDITIONS SHALL BE APPROVED BY THE ENGINEER AFTER EXCAVATION PRIOR TO ANY FURTHER CONSTRUCTION.
- DIMENSIONS, DETAILS AND REINFORCEMENT MAY VARY WITH MANUFACTURER'S RECOMMENDATIONS. CONTRACTOR SHALL OBTAIN AND MAINTAIN ON SITE, APPROVED SHOP DRAWINGS PRIOR TO BEGINNING CONSTRUCTION.
- WIDTH OF BENCHES AND SLOPE OF HIGHWALLS SHALL BE AS RECOMMENDED BY THE GEOTECHNICAL ENGINEER.
- CROSSDRAINS SHALL BE INSTALLED UNDER ACCESS ROAD DURING CONSTRUCTION AS REQUIRED OR AS DIRECTED BY THE ENGINEER.

FINAL CLEANUP AND RESTORATION

UNLESS SPECIFICALLY APPROVED BY THE OWNER AND ENGINEER, CLEANUP OF DISTURBED AREAS SHALL BE KEPT CURRENT WITH CONSTRUCTION AND RESTORATION EFFORTS BY THE CONTRACTOR INITIATED NO LONGER THAN SEVEN (7) DAYS AFTER THE TRENCH EXCAVATION WORK HAS STARTED. ALL EXCAVATED MATERIAL NOT REQUIRED FOR BACKFILLING OF THE TRENCH AND ANY LARGE ROCKS, STONES OR DEBRIS SHALL BE REMOVED FROM THE SITE, AND SHALL NOT BE A BURDEN TO THE PROPERTY OWNER(S) AND/OR ADJACENT PROPERTIES. THE CONTRACTOR MAY WINDROW OR TRACK-IN THE EXCAVATED MATERIAL OVER THE TRENCH PRIOR TO FINAL CLEANUP TO ALLOW FOR AND TO ASSIST IN THE INITIAL SETTLEMENT OF THE TRENCH. ALL DISTURBED AREAS MUST BE SEEDED AT LEAST WITH A TEMPORARY SEED MIX IF FOR SOME REASON THE AREA CANNOT BE PERMANENTLY SEEDED WITHIN TWO (2) WEEKS.

KYDOH NOTES

- 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.
- ALL NECESSARY STEPS SHALL BE TAKEN TO PREVENT EROSION OR SILTATION OF THE PUBLIC RIGHT-OF-WAY, ADJOINING PROPERTY AND WATERWAYS.
- ALL VALVES TO BE FLUSH W/ EXISTING GRADE.
- ALL WATER LINE LOCATED WITHIN STATE HIGHWAY R.O.W. SHALL BE CONSTRUCTED OUT AND AROUND THE END OF ALL EXISTING CULVERTS AND HEADWALLS.
- 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.
- UNDERGROUND UTILITIES SHOWN WITHIN THE RIGHT-OF-WAY SHALL BE INSTALLED WITH A MINIMUM DEPTH OF COVER OF 42 INCHES WITH PRIOR APPROVAL ON A CASE BY CASE BASIS.
- 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.
- UNDERGROUND UTILITIES SHALL NOT BE INSTALLED IN EMBANKMENT FILLS OR BETWEEN EDGE OF PAVEMENT AND DITCHLINE UNLESS SPECIFICALLY NOTED ON PERMITTED PLANS.
- 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.
- CONTACT THE DISTRICT PERMITS ENGINEER AT KYC-DOH #4, ELIZABETHTOWN, KY AT (270) 766-5066 OR 1-800-459-3566 PRIOR TO BEGINNING WORK.

CONTAMINATION PREVENTION REQUIREMENTS

- 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.
- 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.
- 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.

LEGEND

EXISTING	PROPOSED	DESCRIPTION
PVC	PVC	POLYVINYL CHLORIDE
DIP	DIP	DUCTILE IRON PIPE
WM	WM	WATER MAIN
⊕	⊕	HYDRANT ASSEMBLY
⊕	⊕	FLUSHING/BLOWOFF ASSEMBLY
△	△	AIR RELEASE VALVE (ARV)
⊗	⊗	GATE VALVE (GV)
---	---	WATER MAIN (WM)
---	---	SPECIAL CROSSING OR CASING PIPE
---	---	WATER MAIN TO BE ABANDONED
---	---	RIGHT-OF-WAY LINE
---	---	CENTERLINE
---	---	PROPERTY LINE
---	---	EASEMENT ACQUIRED
OWNER	OWNER	

UTILITIES

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

GRAYSON COUNTY WATER DISTRICT
KEVIN SHAW, MANAGER
(270) 259-2917

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.

INDEX OF DRAWINGS

SHT. NO.	DESCRIPTION:
--	COVER
G-1	PROJECT LOCATION MAP, GENERAL NOTES, LEGEND, UTILITIES and INDEX OF DRAWINGS
C-1	REHABILITATION PLAN - DETENTION CENTER TANK
C-2	REHABILITATION PLAN - CLARKSON TANK
C-3	ELEVATED WATER TANK - ELEVATION AND DETAILS
SD-1	STANDARD DETAILS

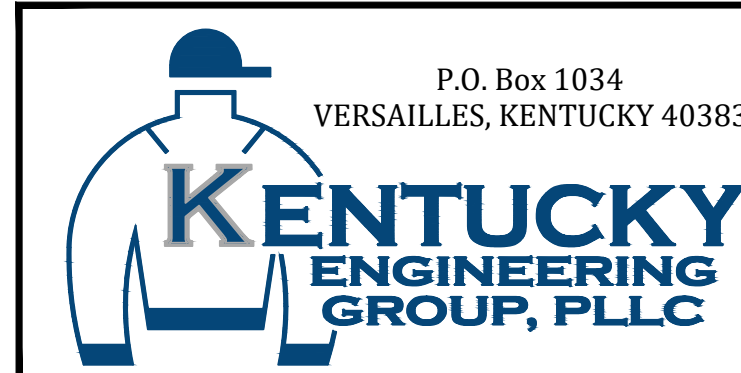
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IT IS A VIOLATION OF LAW FOR ANY PERSON TO ALTER THIS DRAWING WITHOUT WRITTEN PERMISSION FROM KENTUCKY ENGINEERING GROUP, PLLC AND ACTING UNDER THE DIRECTION OF A LICENSED ENGINEER.

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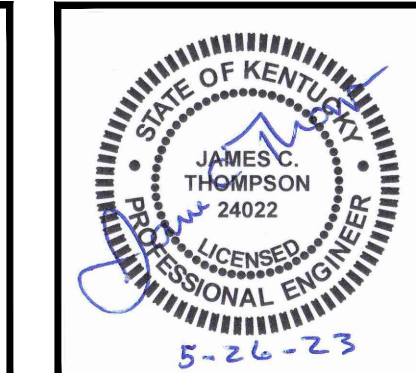
NO.	DATE	REVISIONS	BY

DATE:	DECEMBER, 2022
PROJECT MGR:	RET
DRAWN BY:	JAB
CHECKED BY:	JCT
SCALE:	AS NOTED
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CONTRACT No. 5
CLARKSON TANK
EAST - WEST
INTERCONNECT PROJECT - PHASE II
GRAYSON COUNTY WATER DISTRICT

PROJECT LOCATION MAP,
GENERAL NOTES, UTILITIES,
LEGEND and INDEX OF
DRAWINGS



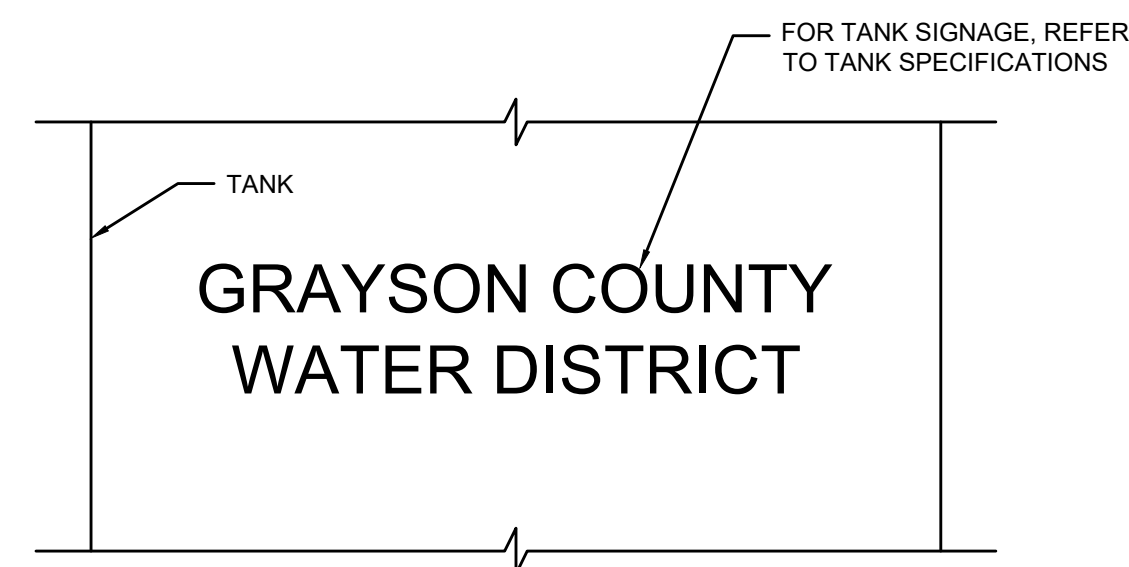
PROJECT NO.	20020
SHEET NO.	G-1

CONTRACT DOCUMENTS



AERIAL PLAN - DETENTION CENTER TANK

SCALE: 1" = 100'



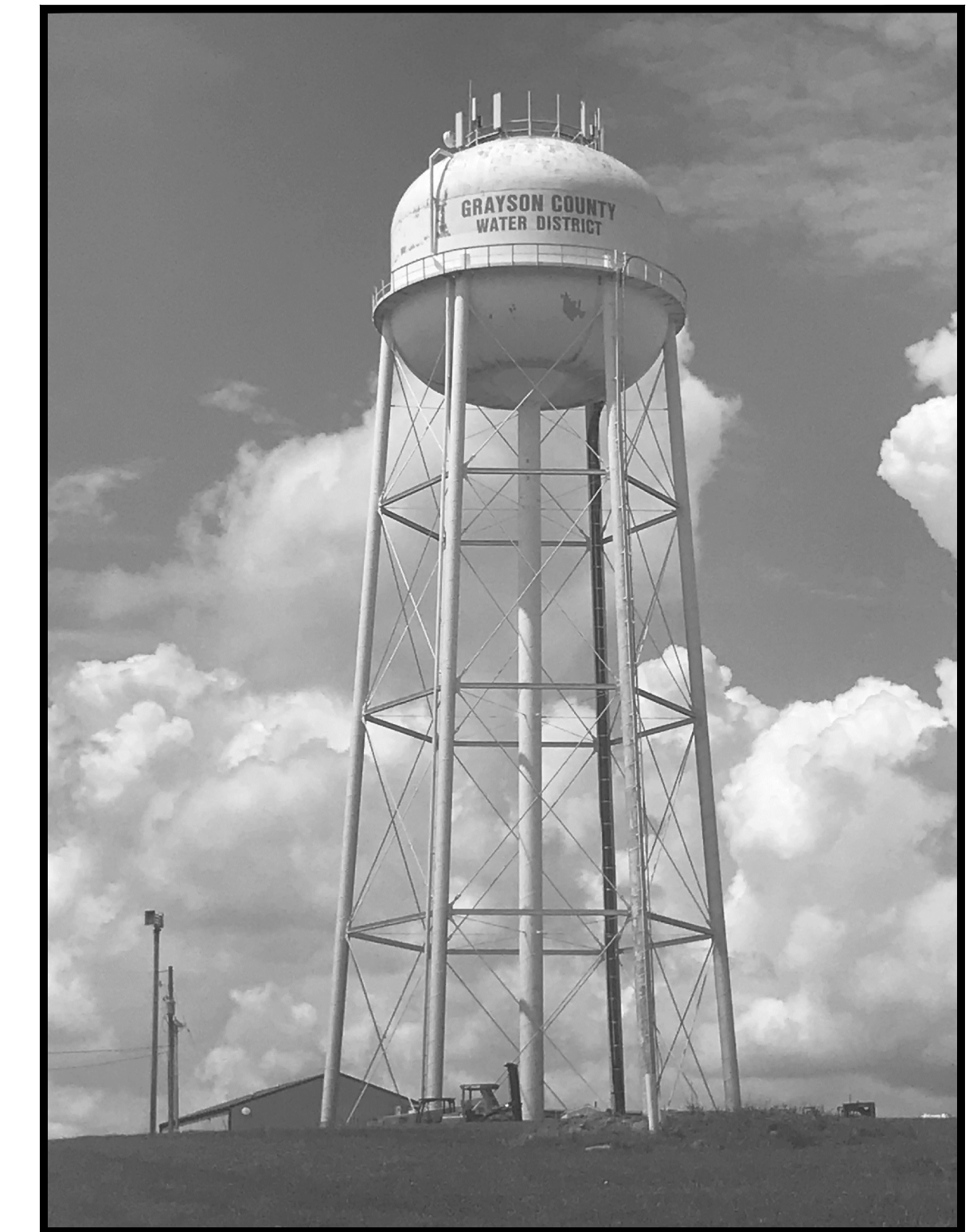
TANK SIGNAGE - TYPICAL

NOT TO SCALE



ELEVATION VIEW - DETENTION CENTER TANK

NOT TO SCALE



ELEVATION VIEW - DETENTION CENTER TANK

NOT TO SCALE



GROUND VIEW - DETENTION CENTER TANK

NOT TO SCALE

DETENTION CENTER TANK

GENERAL INFORMATION

- 500,000 GALLON WELDED STEEL TANK
- ~174' HEIGHT
- ~46' DIAMETER
- CONTRACTOR SHALL NOTIFY THE DISTRICT AT A MINIMUM OF FOUR (4) WEEKS PRIOR TO BEGINNING ANY WORK ON CLARKSON TANK TO NOTIFY THIRD PARTIES TO REMOVE ALL ACCESSORIES (ANTENNAS, ETC.).
- ALL EXISTING CONDUIT AND ACCESSORIES SHALL BE REMOVED AND DISPOSED OF IN ACCORDANCE OF ALL LOCAL, STATE AND FEDERAL REGULATIONS.
- AFTER EXTERIOR COATING SYSTEM HAS CURED IN ACCORDANCE WITH SPECIFICATIONS AND COATING MANUFACTURER, NEW CONDUIT AND ACCESSORIES SHALL BE INSTALLED AND TELEMETRY BE PLACED INTO OPERATION.

TANK IMPROVEMENTS:

INTERIOR

- SPOT REPAIR CLEANING SSPC SP 3 POWER TOOL CLEANING OR WHITE BLAST SP-10 ALL CORROSION AREAS
- SPOT PRIME ALL CLEANED AREAS W/EPOXY PRIMER (PER SPECIFICATIONS)
- COATING SYSTEM - PER SPECIFICATIONS

EXTERIOR

- POWER WASH 3500 PSI TO REMOVE LOOSE MATERIAL AND DEBRIS.
- SPOT REPAIR CLEANING SSPC SP 3 POWER TOOL CLEANING ON ALL CORROSION AREAS
- SPOT PRIME ALL CLEANED AREAS W/EPOXY PRIMER (PER SPECIFICATIONS)
- REMOVE CABLE COVER FROM BALCONY
- COATING SYSTEM - PER SPECIFICATIONS

REG 6/07/23

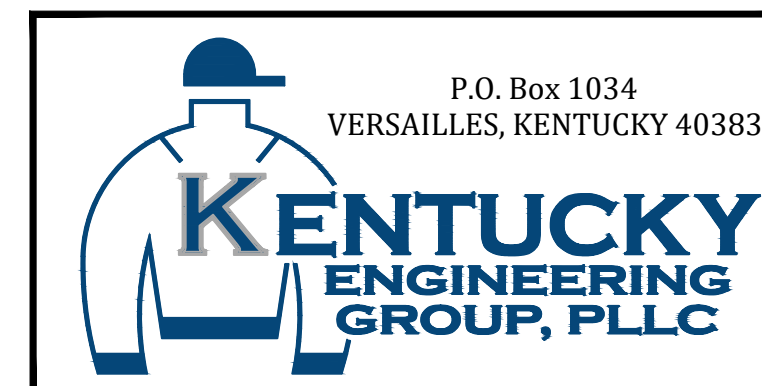
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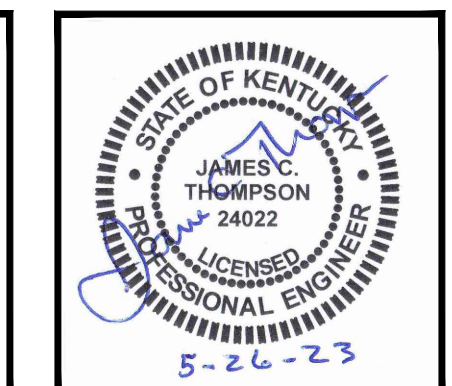
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CONTRACT No. 5
CLARKSON TANK
EAST - WEST
INTERCONNECT PROJECT - PHASE II
GRAYSON COUNTY WATER DISTRICT

REHABILITATION PLAN
DETENTION CENTER TANK

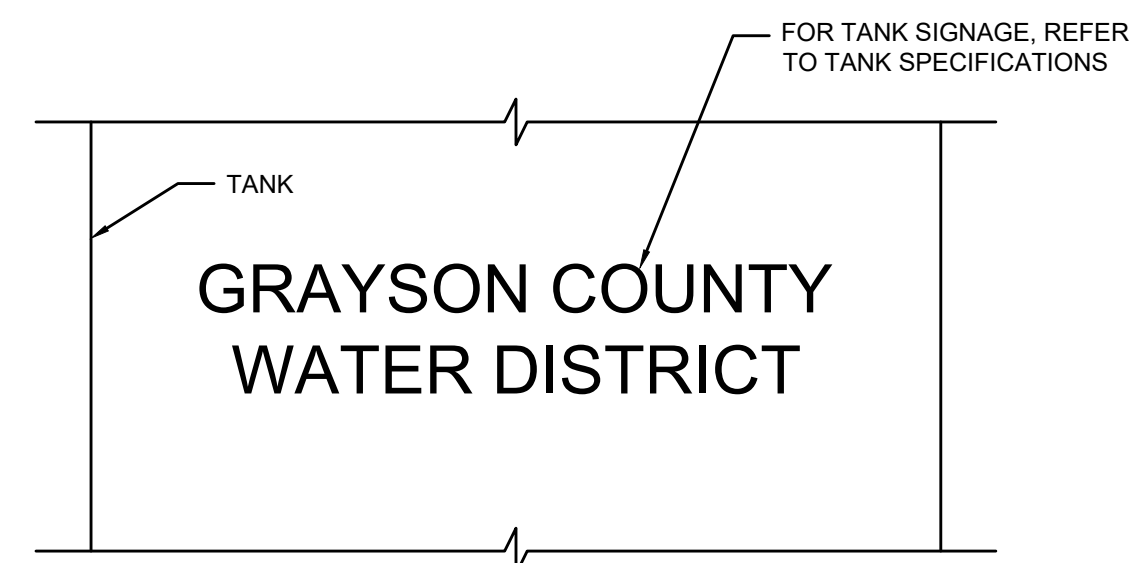


PROJECT NO.	20020
SHEET NO.	C-1

CONTRACT DOCUMENTS



AERIAL PLAN - CLARKSON TANK
SCALE: 1" = 100'



TANK SIGNAGE - TYPICAL
NOT TO SCALE



ELEVATION VIEW - CLARKSON TANK
NOT TO SCALE



ELEVATION VIEW - CLARKSON TANK
NOT TO SCALE



GROUND VIEW - CLARKSON TANK
NOT TO SCALE

CLARKSON TANK

GENERAL INFORMATION

- 200,000 GALLON WELDED STEEL TANK
- ~132' HEIGHT
- ~36' DIAMETER
- REHABILITATION OF CLARKSON TANK SHALL NOT BEGIN UNTIL THE REHABILITATION OF THE DETENTION CENTER TANK IS FULLY OPERATIONAL. INCLUDING PROPER COMMUNICATION OF SCADA SYSTEM.
- CONTRACTOR SHALL NOTIFY THE DISTRICT AT A MINIMUM OF FOUR (4) WEEKS PRIOR TO BEGINNING ANY WORK ON CLARKSON TANK TO NOTIFY THIRD PARTIES TO REMOVE ALL ACCESSORIES (ANTENNAS, ETC.).
- ALL EXISTING CONDUIT AND ACCESSORIES SHALL BE REMOVED AND DISPOSED OF IN ACCORDANCE OF ALL LOCAL, STATE AND FEDERAL REGULATIONS.
- AFTER EXTERIOR COATING SYSTEM HAS CURED IN ACCORDANCE WITH SPECIFICATIONS AND COATING MANUFACTURER, NEW CONDUIT AND ACCESSORIES SHALL BE INSTALLED AND TELEMTRY BE PLACED INTO OPERATION.
- RISER PIPE SHALL BE EXTENDED AS SHOWN ON DETAIL SHT C-3

TANK IMPROVEMENTS:

INTERIOR

- REMOVE EXISTING COATING WITH ABRASIVE BLAST SSPC SP10
- CAULK SEAMS ABOVE WATERLINE
- CAULK ALL CEILING ACCESSORIES AS NEEDED
- PLATE ANY HOLES OR PITTED AREAS AS NEEDED
- APPLY PIT FILLER TO PITTED AREAS
- COATING SYSTEM - PER SPECIFICATIONS

EXTERIOR

- SPOT REPAIR CLEANING SSPC SP 3 POWER TOOL CLEANING ON ALL CORROSION AREAS
- SPOT PRIME ALL CLEANED AREAS W/EPOXY PRIMER (PER SPECIFICATIONS)
- COATING SYSTEM - PER SPECIFICATIONS

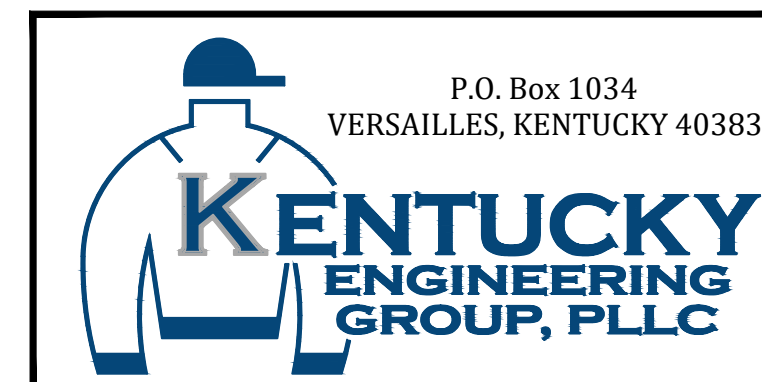
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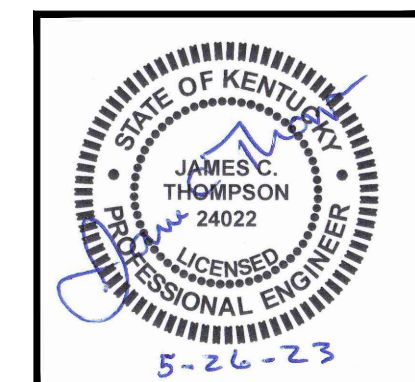
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**CONTRACT No. 5
CLARKSON TANK
EAST - WEST
INTERCONNECT PROJECT - PHASE II
GRAYSON COUNTY WATER DISTRICT**

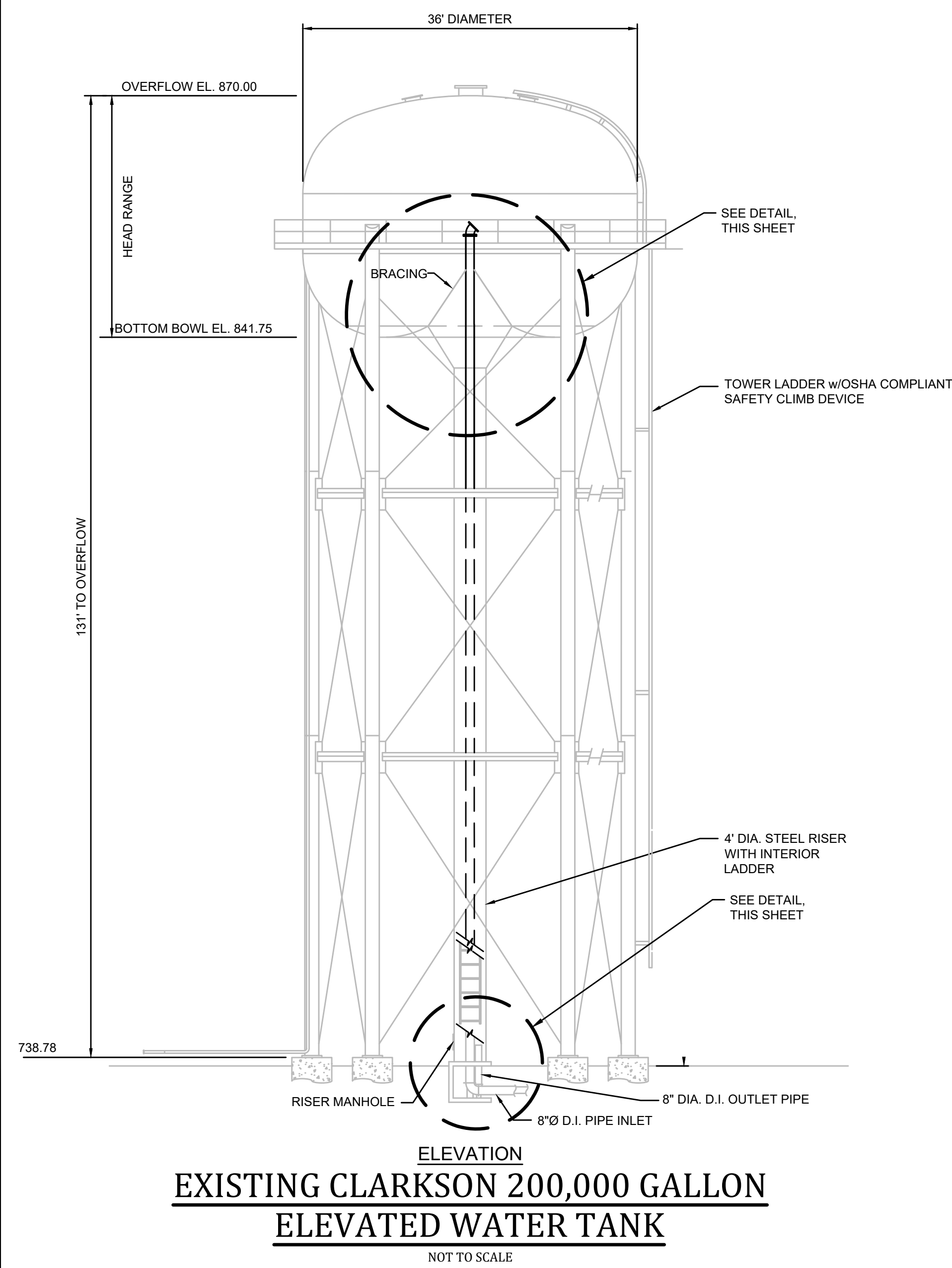
**REHABILITATION PLAN
CLARKSON TANK**



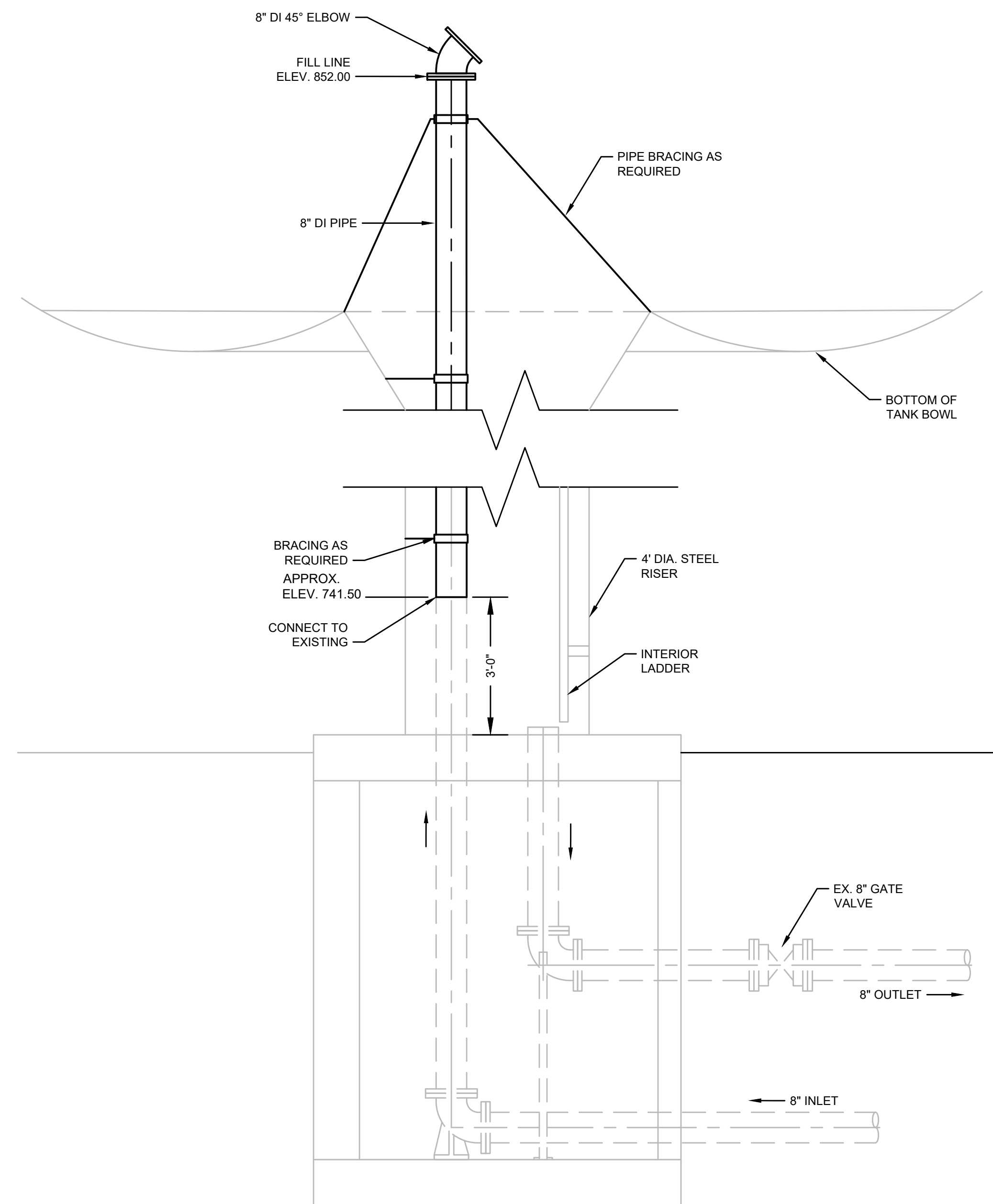
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CONTRACT DOCUMENTS

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**EXISTING CLARKSON 200,000 GALLON
ELEVATED WATER TANK**



**EXISTING CLARKSON 200,000 GALLON
ELEVATED WATER TANK
COLUMN BASE DETAIL**

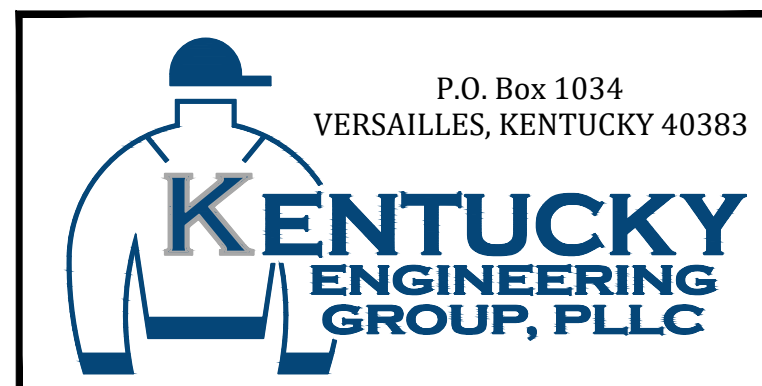
SCALE: 1/2" = 1'-0"

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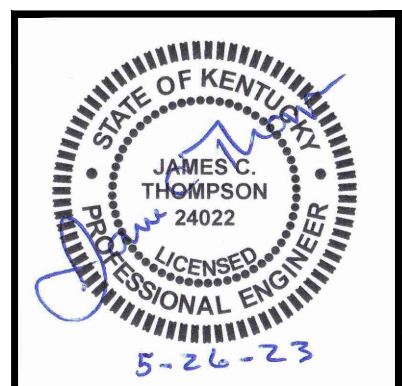
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**CONTRACT No. 5
CLARKSON TANK
EAST - WEST
INTERCONNECT PROJECT - PHASE II
GRAYSON COUNTY WATER DISTRICT**

**ELEVATED WATER TANK
ELEVATION and DETAILS**



PROJECT NO.	20020
SHEET NO.	C-03

CONTRACT DOCUMENTS

NOTES:

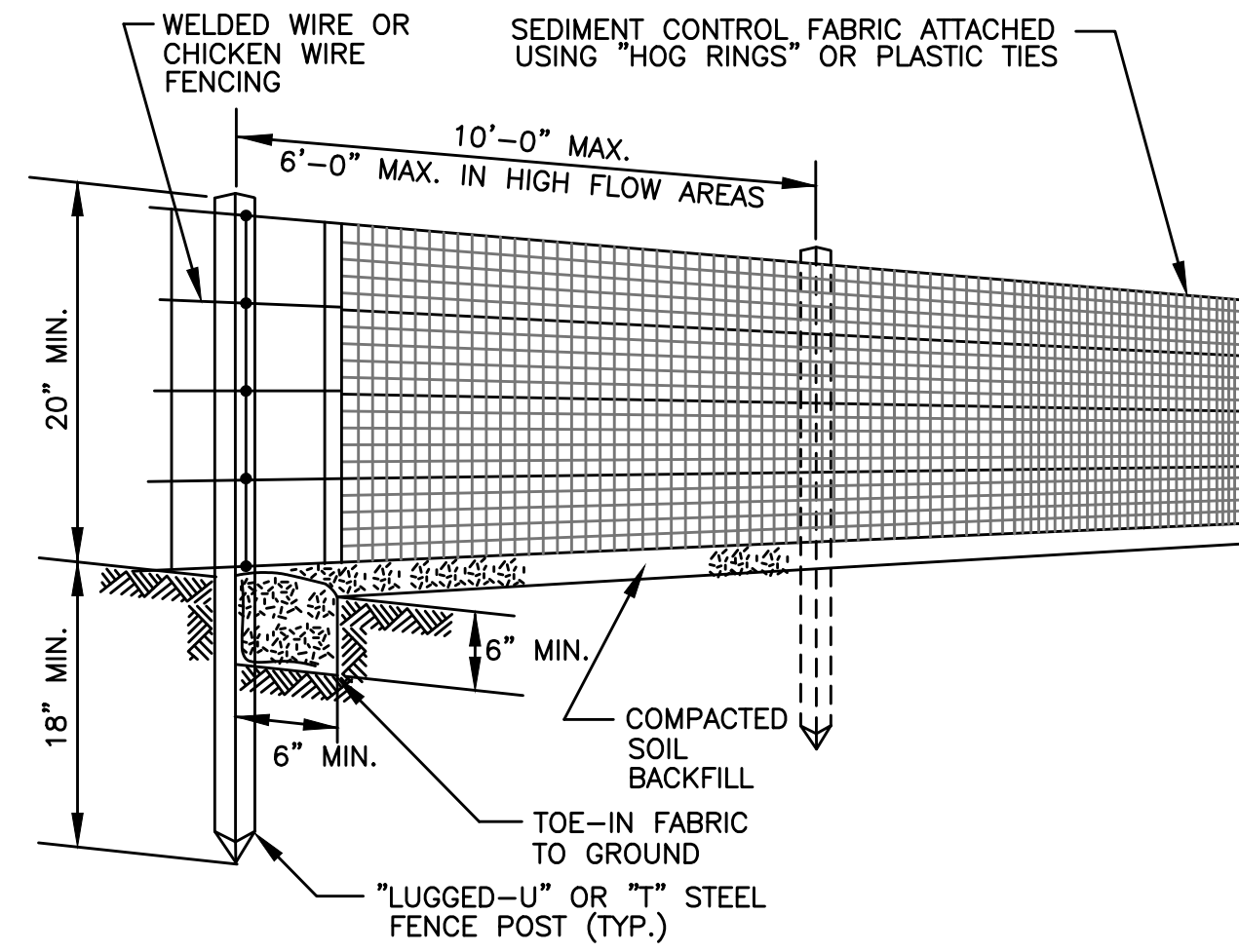
- WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES.
- FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION.
- WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVER- LAPPED BY SIX INCHES AND FOLDED.
- MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.
- FENCE TO BE INSTALLED ACROSS PIPE TRENCHES AT 200' INTERVALS. INSTALL AT CLOSER INTERVALS IF CONDITIONS WARRANT.
- PRIOR TO CONSTRUCTION, INSTALL SILT FENCING ON THE DOWN SLOPE SIDE OF ALL AREAS TO BE DISTURBED, INCLUDING DOWNSTREAM SIDE OF ALL WATERWAYS CROSSED AND AT ALL CULVERTS OR STORM SEWER INLETS.

POSTS:
STEEL - EITHER T OR U TYPE OR 2" HARDWOOD

FENCE:
WOVEN WIRE 14.5 GAUGE 6" MAX MESH OPENING

FILTER CLOTH:
MINIMUM TENSILE STRENGTH OF 120 LBS. (ASTM D-1682)

PREFABRICATED UNIT:
MIRAFI ENVROFENCE, OR EQUAL

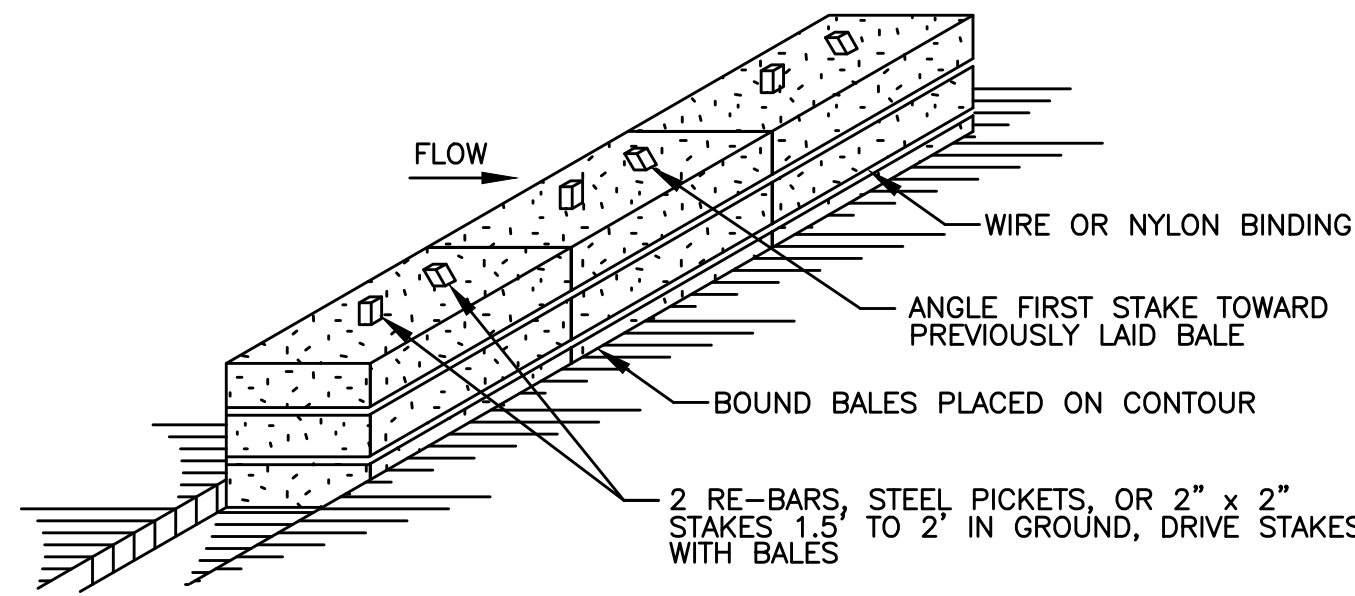
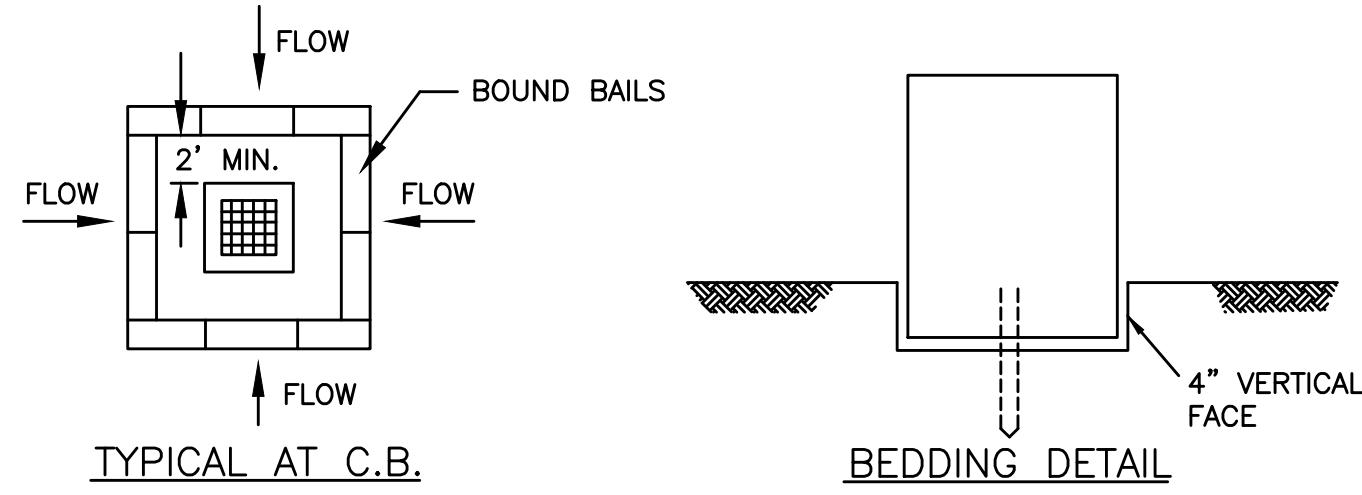


TYPICAL SILT FENCE DETAIL

NOT TO SCALE

CONSTRUCTION SPECIFICATIONS:

- BALES SHALL BE PLACED AT INTERVALS (BETWEEN SILT FENCING), ACROSS ALL PIPING TRENCHES ON SLOPING GRADES. PLACE BALES IN A ROW WITH ENDS TIGHTLY ABUTTING THE ADJACENT BALES.
- EACH BALE SHALL BE EMBEDDED IN THE SOIL A MINIMUM OF 4 INCHES, AND PLACED SO THE BINDINGS ARE HORIZONTAL.
- BALES SHALL BE SECURELY ANCHORED IN PLACE BY EITHER TWO STAKES OR RE-BARS DRIVEN THROUGH THE BALE. THE FIRST STAKE IN EACH BALE SHALL BE DRIVEN AT AN ANGLE TOWARD THE PREVIOUSLY LAID BALE TO FORCE THE THE BALES TOGETHER. STAKES SHALL BE DRIVEN FLUSH WITH THE BALE.
- INSPECTION SHALL BE FREQUENT AND REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
- UPON COMPLETION OF CONSTRUCTION AND STABILIZATION OF ALL DISTURBED AREAS, SILTATION CONTROL MEASURES ARE TO BE REMOVED.



ANCHORING DETAILS

TYPICAL STRAW BALE DIKE DETAIL

NOT TO SCALE

SEDIMENTATION CONTROL NOTES:

- CONTRACTOR IS RESPONSIBLE FOR OBTAINING A KPDES STORMWATER PERMIT FROM THE KENTUCKY DIVISION OF WATER.
- CONTRACTOR SHALL PLACE STAKED STRAW BALES OR SILT FENCE AROUND HEADWALLS AND IN EXISTING DITCHES AS SHOWN TO PREVENT CLOGGING AND DOWNSTREAM SILTATION.
- CONTRACTOR SHALL SURROUND THE PROPERTY PERIMETER WITH STAKED STRAW BALES OR SILT FENCE.
- CONTRACTOR MUST RETAIN EXISTING VEGETATION ON THE CONSTRUCTION SITE WHENEVER POSSIBLE.
- NO AREA OF DISTURBED LAND IS TO BE LEFT UNPROTECTED FOR MORE THAN TWENTY DAYS AFTER GRADING ACTIVITY HAS CEASED. THESE AREAS SHALL BE RE-STABILIZED USING TEMPORARY SEEDING AND MULCHING OR OTHER SUITABLE MEANS. MULCHING MUST COVER AT LEAST 75% OF THE SOIL SURFACE.
- CONTRACTOR SHALL INSPECT EROSION AND SEDIMENT CONTROL MEASURES IN PLACE AFTER EVERY STORM EVENT, AS WELL AS ON A WEEKLY BASIS. DAMAGED OR INEFFECTIVE MEASURES MUST BE RESTORED IMMEDIATELY TO PROPER FUNCTIONING CONDITION.
- CONTRACTOR SHALL MINIMIZE THE TRACKING OF SEDIMENT ONTO ROADWAYS BY PLACING A 50 FOOT LONG, 5-INCH THICK GRAVEL DRIVE OFF EACH ENTRANCE FROM A PUBLIC ROADWAY. ENTRANCE MUST BE 12 FEET WIDE OR WIDER CONSTRUCTED WITH GRAVEL 2 TO 3 INCHES IN DIAMETER.
- ANY SEDIMENT, DEBRIS, ETC. THAT IS TRACKED ONTO A PUBLIC ROADWAY WILL BE CLEARED ON A DAILY BASIS.
- ADDITIONAL EROSION CONTROL NOT SHOWN ON THESE PLANS MAY BE REQUIRED. THIS CONTROL SHALL INCLUDE SEEDING, MULCHING, SILT FENCE, STRAW BALES, ETC. AS NECESSARY TO PREVENT SOIL EROSION.
- CONTRACTOR SHALL INSTALL EROSION CONTROL BLANKETS ON ALL SLOPES GREATER THAN 3:1.
- CONTRACTOR TO INSTALL STRAW BALE DROP INLET SEDIMENT FILTER FOR DRAINS RECEIVING CONCENTRATED OR HEAVY FLOWS.
- CONTRACTOR TO INSTALL WIRE AND MESH INLET SEDIMENT FILTER FOR INLET DRAINS RECEIVING CONCENTRATED OR HEAVY FLOWS.

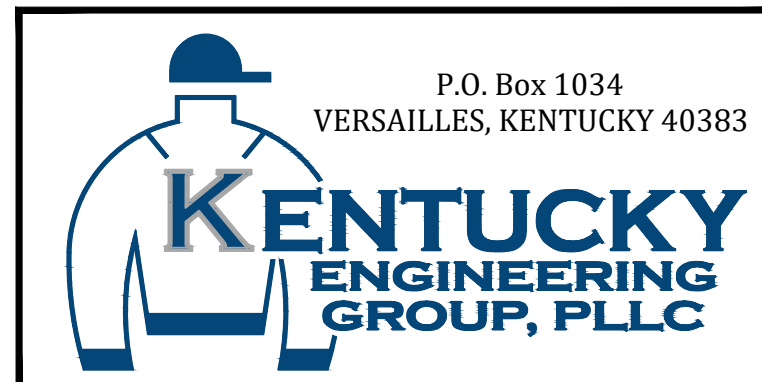
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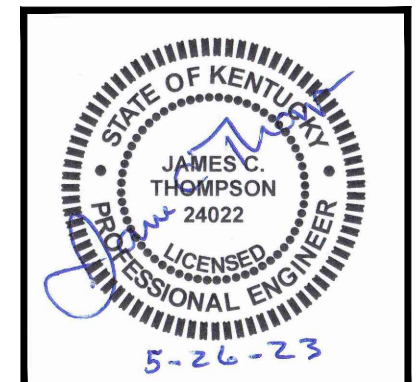
DATE:	DECEMBER, 2022
PROJECT MGR:	RET
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CHECKED BY:	JCT
SCALE:	AS NOTED
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P.O. Box 1034
VERSAILLES, KENTUCKY 40383

CONTRACT No. 5
CLARKSON TANK
EAST - WEST
INTERCONNECT PROJECT - PHASE II
GRAYSON COUNTY WATER DISTRICT

STANDARD DETAILS



PROJECT NO.	20020
SHEET NO.	SD-1

CONTRACT DOCUMENTS