# WATER SYSTEM IMPROVEMENTS CONTRACT 3 - TANK REHABILITATION FOR THE

### CHAIRMAN

ARTIE GIBSON

### WATER SUPERVISOR

CHAD LINKOUS

**PROJECT NO. 19002** 

## LEVEE ROAD WATER ASSOCIATION MONTGOMER COUNTY, KENTUCKY JUNE 2020



## **BOARD MEMBERS**

BRENDA MURPHY RUSTY DUNN BEVERLY CARPENTER BILLY BARNETT



**BID DOCUMENTS** 

	GENERAL NOTES
•	CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES AND THE ENGINEER TWO WORKING DAYS (MINIMUM) BEFO 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 PHASE OF CONSTRUCTION.
•	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 LINES WITH CATHODIC PROTECTION SHALL BE WRAPPED IN POLYETHYLENE ENCASEMENT. MATERIALS AND INSTALLATION SHALL MEET T REQUIREMENTS OF AWWA'S LATEST REVISION.
•	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 HA 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 BEEN SHOWN IN THEIR <u>APPROXIMATE LOCATION</u> . CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UTILITIES. THE CONTRACTOR SHALL COORDINATE WITH A REPRESENTATIVE WHEN WORKING NEAR 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.
•	UNLESS OTHERWISE NOTED, A SEPARATE BID ITEM HAS NOT BEEN ESTABLISHED FOR FITTINGS. THE FITTINGS INCLUDED BUT NOT LIMITED TO ARE: TEES, BENDS, PLUGS, REDUCERS, CROSSES, COUPLINGS, ETC. CONTRACTORS SHALL INCLUDE THE COST OF THESE ITEMS IN THE BID PRICE FOR THE PIPE.
	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.
•	ALL PIPING SHALL HAVE 36" MINIMUM COVER.
•	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, SHORING OR THE TRENCH SIDES SLOPED. SLOPING THE SIDES OF THE DITCH WILL NOT NOT BE PERMITTED IN STREETS, ROADS, NARROW RIGHTS-OF-WAY OR OTHER CONSTRICTED AREAS UNLESS OTHER WISE SPECIFIED. THE STANDARDS OF THE FEDERAL OCCUPATIONAL SAFETY AND HEALTH ACT AND THE KENTUCKY LABOR CABINET SHAL BE FOLLOWED.
•	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 ALL STRUCTURES.
•	BACKFILL AROUND ALL STRUCTURES SHALL BE SUFFICIENTLY COMPACTED TO PRECLUDE SETTLEMENT AND PONDI OF WATER AROUND STRUCTURES AND GRADED TO DIVERT RUNOFF AWAY FROM THE STRUCTURES.
	DIMENSIONS, DETAILS AND REINFORCEMENT MAY VARY WITH MANUFACTURER'S RECOMMENDATIONS. CONTRACTORS SHALL OBTAIN AND MAINTAIN ON SITE, APPROVED SHOP DRAWINGS PRIOR TO BEGINNING CONSTRUCTION.
•	ALL VALVES & HYDRANTS SHALL BE LOCATED AT THE BACKSIDE OF THE DITCHLINE.
,	FINAL LOCATION OF SERVICES, VALVES, & HYDRANT ORIENTATION ARE TO BE FIELD LOCATED DURING CONSTRUCT & APPROVED BY THE ENGINEER.
•	AT THE CONTRACTORS OPTION, CLASS 350 DUCTILE IRON PIPE MAY BE SUSTITUTED FOR ANY PIPE PARTICULARLY SPECIFIED, BUT AT NO ADDITIONAL COST TO THE OWNER.
Þ	NO PAY ITEM FOR EXTRA TRENCH DEPTH HAS BEEN SET UP. CONTRACTOR SHALL INCLUDE THE COST OF THE ADDITIONAL DEPTH IN HIS BID PRICE.
•	ROCK SOUNDINGS WERE NOT PERFORMED BY THE ENGINEER, THE CONTRACTOR SHALL TAKE APPROPRIATE ACTION
•	TO DETERMINE SUBSURFACE CONDITIONS. CONTRACTOR TO DIG/EXPOSE EXISTING WATER MAIN FAR ENOUGH AHEAD OF NEW WATER MAIN CONSTRUCTION T
•	AVOID DAMAGE TO EXISTING WATER MAIN AND/OR INTERRUPTION OF EXISTING CUSTOMER SERVICES. ALL NEW SERVICE LINE FROM THE NEW MAIN TO THE SETTERS SHALL BE CLASS 250 3/4" PE CTS TUBING UNLESS
	SHOWN DIFFERENTLY ON THE PLANS
	THE MAXIMUM ALLOWABLE LENGTH OF SERVICE LINE FROM THE WATER MAIN TO THE CUSTOMER'S METER SERVICE SHALL BE AS FOLLOWS:
	SERVICE LINE DIAMETERMAXIMUM LENGTH3/4 INCH100 FEET1 INCH150 FEET
	1 INCH 150 FEET   1-1/2 INCH 200 FEET   2 INCH 250 FEET
•	CONNECTIONS TO EXISTING DISTRIBUTION SYSTEM SHALL BE MADE AS FOLLOWS:
	A. CONNECT TO EXISTING (SIZE) W.M. (WET TAP) - CONTRACTOR SHALL PROVIDE, FURNISH AND INSTALL ALL FITTINGS, VALVES AND APPURTENANCES TO CONNECT THE PROPOSED WATER MAIN TO THE EXISTING WATE MAIN UNDER PRESSURE.
	B. CONNECT TO EXISTING (SIZE) W.M CONTRACTOR SHALL PROVIDE, FURNISH AND INSTALL ALL FITTINGS AN APPURTENANCES TO CONNECT THE PROPOSED WATER MAIN TO THE EXISTING WATER MAIN. VALVES ARE A SEPARATE PAY ITEM.
	NO BLASTING WILL BE PERMITTED ON THIS PROJECT
	GRIP RINGS SHALL BE INSTALLED ON ALL FITTINGS
	ALL NEW METERS SHALL BE 5/8" X 3/4" CONTRACTOR SHALL FREEBORE ALL BITUMINOUS AND/OR CONCRETE DRIVEWAYS AND INCLUDE IN THE BID PRICE
-	FOR THE PIPE.

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.

DATE	REVISIONS	
	DATE	DATE REVISIONS

#### GENERAL NOTES (CONTINUED)

- NEW LINE AND EXISTING LINES MUST REMAIN IN SERVICE UNTIL ALL METERS ASSEMBLED HAVE BEEN REPLACED AND RECONNECTED TO THE NEW LINE
- NO METERS CAN BE RECONNECTED TO THE NEW WATER MAIN UNTIL TESTING, STERILIZATION AND SAMPLING HAS BEEN SUCCESSFULLY COMPLETED
- COPIES OF ALL BACTIE RESULTS MUST BE PROVIDED TO THE ENGINEER PRIOR TO RECONNECTS OF ANY METER.
- A NO. 12 AWG INSULATED COPPER LOCATOR WIRE SHALL BE PLACED IN THE TRENCH SIX INCHES ABOVE ALL PLASTIC LINES. THE INSULATION SHALL BE BLUE FOR WATER. THE WIRE SHALL BE LOOPED INTO ALL VALVE BOXES W/ ENOUGH SLACK TO ALLOW ACCESS TO THE LOOPS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY PLUMBING PERMITS NECESSARY TO RELOCATE OR RECONNECT ANY CUSTOMERS METER SERVICE OR SERVICE LINE. THE CONTRACTOR SHALL OBTAIN ALL PERMITS, PAY ALL FEES AND EMPLOY THE NECESSARY LICENSED PLUMBER.

#### 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.

#### DEPARTMENT OF HIGHWAYS - GENERAL 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 MORE THAN 5 FEET FROM THE EDGE OF 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 PERMITTION 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.

#### LEGEND

EXISTING	PROPOSED
PVC	PVC
DIP	DIP
WM	WM
ዮ	<b></b>
P	<b>F</b>
$\bigtriangleup$	
$\otimes$	$\otimes$
[=====]	<del></del>
	(TO BE ABANDONED)
R/₩	R/₩
OWNER	OWNER
	A
	F
	$(\mathbf{v})$

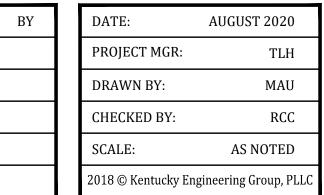
OSED	DESCRIPTION
2	POLYVINYL CHLORIDE
)	DUCTILE IRON PIPE
1	WATER MAIN
	HYDRANT ASSEMBLY
	FLUSHING/BLOWOFF ASSEMBLY
	AIR RELEASE VALVE (ARV)
	GATE VALVE (GV)
	WATER MAIN (WM)
<del></del>	SPECIAL CROSSING OR CASING PIPE
IDONED)	WATER MAIN TO BE ABANDONED
	RIGHT-OF-WAY LINE
	CENTERLINE
	PROPERTY LINE
ER	EASEMENT ACQUIRED
	AUTOFLUSH HYDRANT
	FLUSHING HYDRANT
	VALVE INSERTION

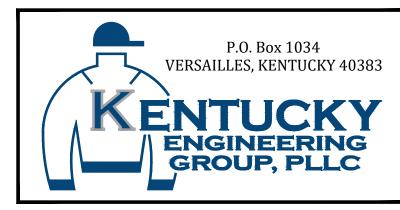
#### INDEX OF DRAWINGS

<u>SHT. NO.</u> G-01 C-01 SD-01

DESCRIPTION: COVER

SHEET LOCATION MAP, INDEX OF DRAWINGS, UTILITIES and LEGEND MCKEE WATER STORAGE TANK REHABILIATION **EROSION AND SEDIMENTATION CONTROL DETAILS** 





### LEVEE ROAD WATER ASSOCATION WATER SYSTEM IMPROVEMENTS CONTRACT NO. 3 TANK REHABILITATION

#### SHEET LOCATION MAP



#### UTILITIES

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

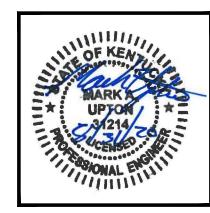
#### NOTE:

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.

#### WATER ASSOCIATION

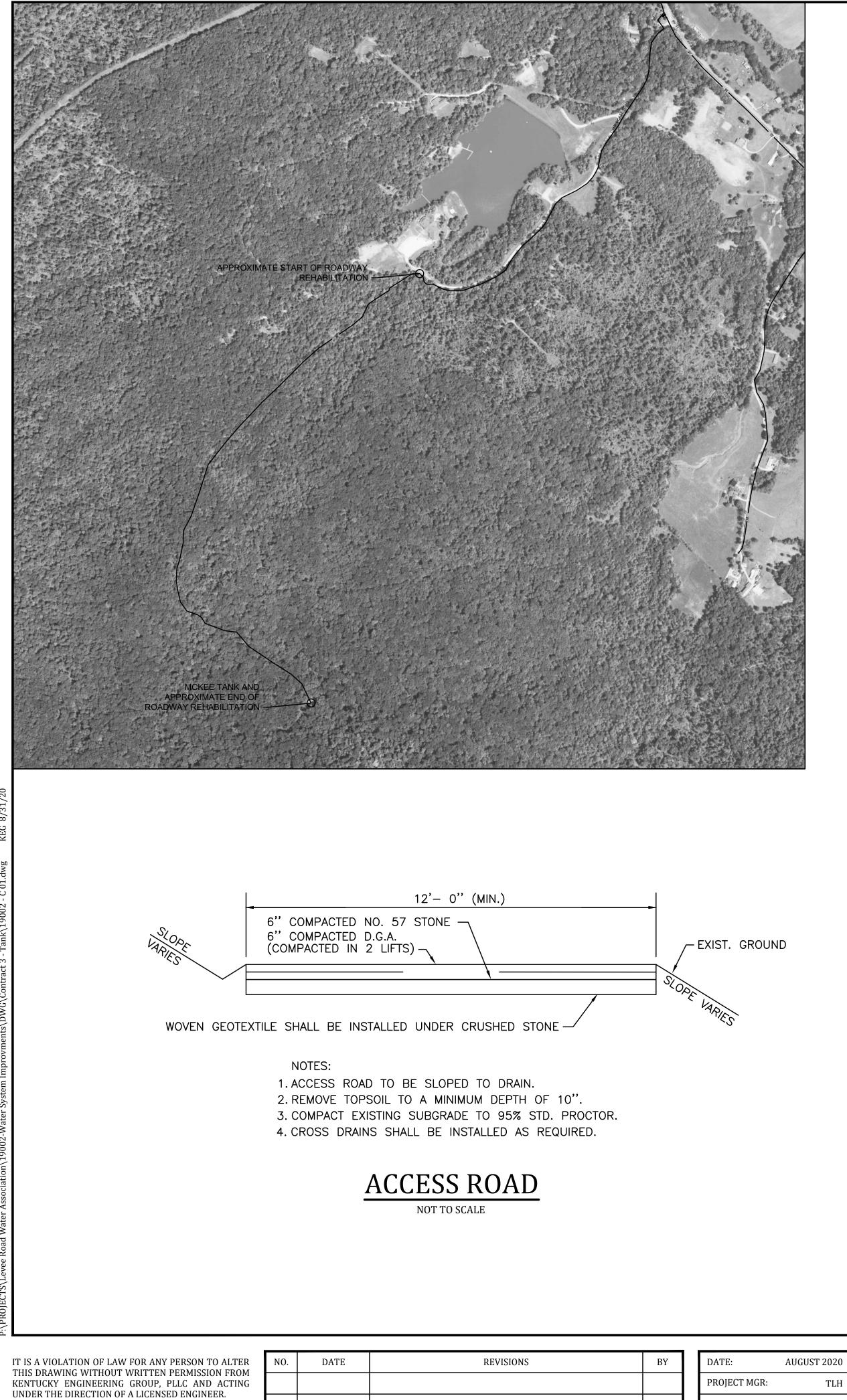
LEVEE ROAD WATER ASSOCIATION PHONE: (859) 498-6980

SHEET LOCATION MAP, LEGEND, UTILITIES and INDEX OF DRAWINGS



PROJECT NO. 19002

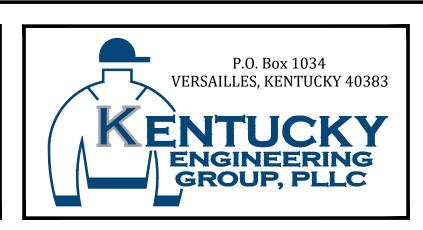
SHEET NO. G-01



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	





MAU

RCC

AS NOTED

018 © Kentucky Engineering Group, PLI

DRAWN BY:

CHECKED BY:

SCALE:

LEVEE ROAD WATER ASSOCATION WATER SYSTEM IMPROVEMENTS CONTRACT NO. 3 TANK REHABILITATION

### **GENERAL NOTES:**

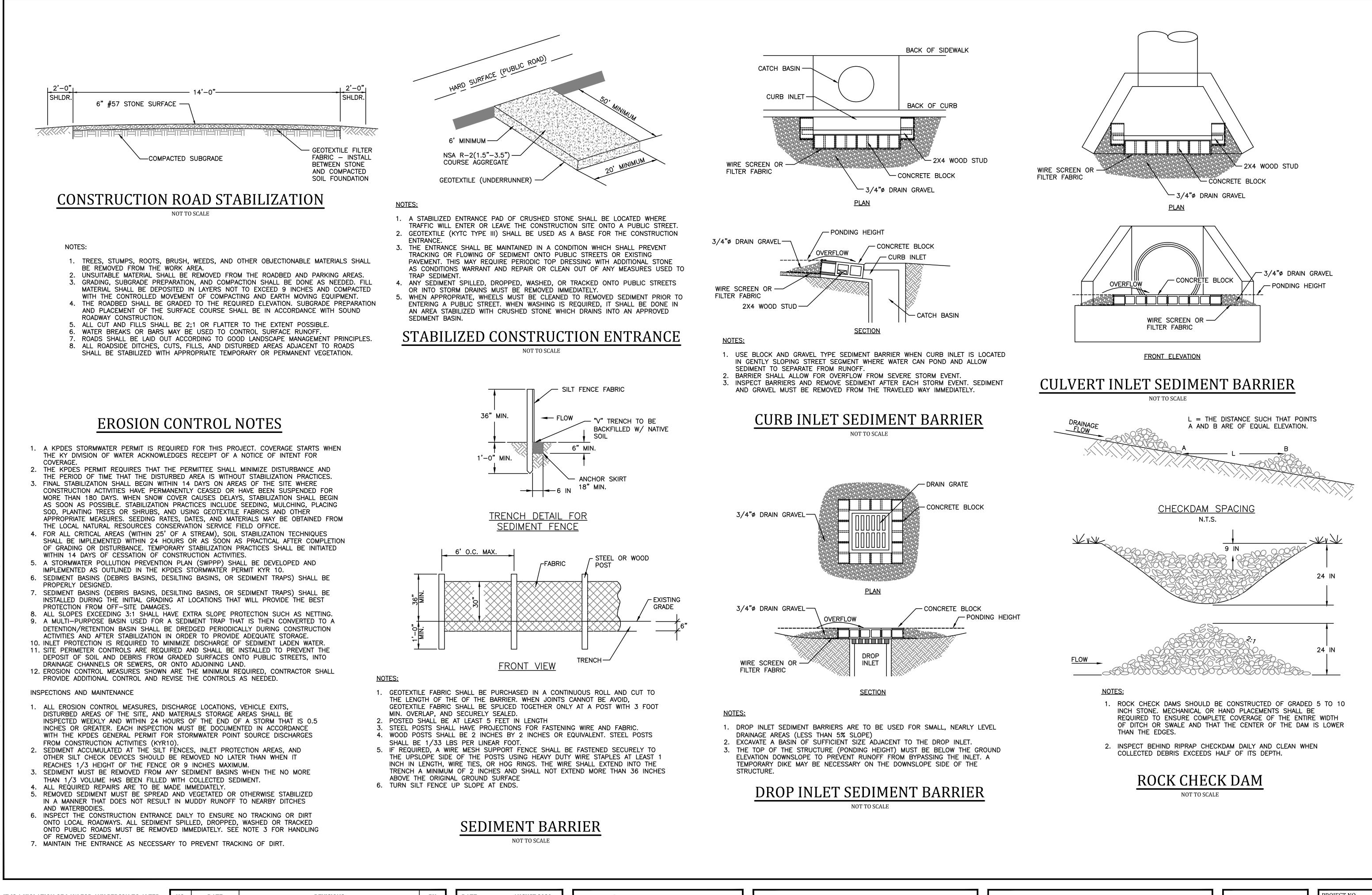
- 1. TANK SHALL BE REHABILITATED IN ACCORDANCE WITH SPECIFICATION SECTION 09880
- 2. TANK INSPECTION PICTURES CAN BE FOUND IN APPENDIX A OF THE SPECIFICATIONS FOR SCOPE OF REPAIRS.
- 3. CONTRACTOR SHALL COORDINATE WORK WITH OWNER IN ORDER TO MODIFY SYSTEM OPERATION IN ORDER TO PREVENT ANY INTERRUPTION IN SERVICE.
- 4. FOLLOWING REHABILITATION OF THE TANK, ALL INTERIOR SURFACES SHALL BE DISINFECTED IN ACCORDANCE WITH THE SPECIFICATIONS PRIOR TO BEING PLACED BACK IN SERVICE.
- 5. ROADWAY TO TANK (APPROXIMATELY 5,000 LF) SHALL BE RESURFACED FOLLOWING COMPLETION OF ALL WORK ON THE TANK. SHOULD THE CONTRACTOR CHOOSE TO COMPLETE THE ROADWORK PRIOR TO FINISHING TANK WORK ANY DAMAGE TO THE ROADWAY WILL BE THE CONTRACTOR'S RESPONSIBILITY.

MCKEE WATER STORAGE TANK REHABILITATION



PROJECT NO. 19002

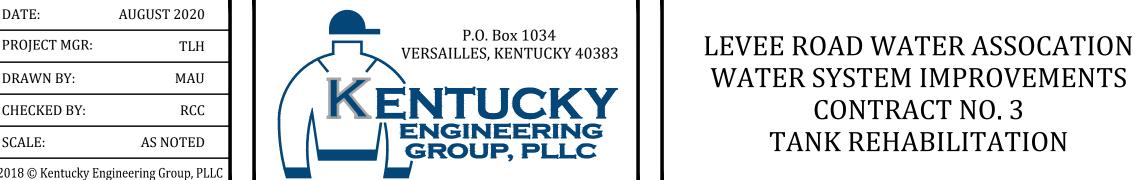
SHEET NO. C-01



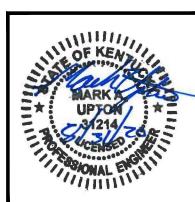
IT IS A VIOLATION OF LAW FOR ANY PERSON TO ALTER THIS DRAWING WITHOUT WRITTEN PERMISSION FROM KENTUCKY ENGINEERING GROUP. PLLC AND ACTING UNDER THE DIRECTION OF A LICENSED ENGINEER.

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	F



DATE:



ROJECT NO. 19002

SHEET NO. **SD-01**