Phase 19 Sewer System Improvements Sewer Main Replacement and Rehabilitation FOR THE SRF PROJECT NO. - SX21001004 SRF LOAN NO. - A20-016

Columbia-Adair Utilities District Adair County, Kentucky

PROJECT NO. 20001

CONTRACT No. 3



MARCH, 2021







BID DOCUMENTS

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COLUMBIA



PHASE 19 SEWER SYSTEM IMPROVEMENTS SEWER MAIN REPLACEMENT AND REHABILITATION COLUMBIA-ADAIR UTILITIES DISTRICT

LEGEND

EXISTING	PROPOSED	DESCRIPTION
PVC	PVC	POLYVINYL CHLORIDE
DIP	DIP	DUCTILE IRON PIPE
WM	WM	WATER MAIN
Ŷ		HYDRANT ASSEMBLY
P	Ŧ	FLUSHING/BLOWOFF ASSEMBLY
Δ		AIR RELEASE VALVE (ARV)
\otimes	\otimes	GATE VALVE (GV)
		WATER MAIN (WM)
-+- []		SPECIAL CROSSING OR CASING PIPE
	+++-	WATER MAIN TO BE ABANDONED
<u>—</u>	<u>—</u>	RIGHT-OF-WAY LINE
		CENTERLINE
		PROPERTY LINE
\boxtimes		CUSTOMER SERVICE METER
-	— X' E.O.P.	EDGE OF PAVEMENT (WHITE LINE)
OWNER	OWNER	EASEMENT ACQUIRED

UTILITIES

BUD - Before You Dig 1-800-752-6007 or DIAL 811 <u>NOTE:</u>

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	LOCATION MAP, LEGEND, UTILITY OWNERS and INDEX OF DRAWINGS			
G-2	GENERAL NOTES			
C-1	PLAN - PROFILE ELM STREET			
C-2	PLAN - PROFILE GUTHRIE STREET			
C-3	PLAN - PROFILE HANLEY LANE			
C-4	PLAN - PROFILE BURKESVILLE ROAD			
C-5	PLAN - PROFILE TUTT STREET			
C-6	PLAN - PROFILE CASEY CIRCLE			
C-7	PLAN - PROFILE HELEN FLATT DRIVE			
C-8	DON FRANKLIN PUMP STATION			
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C-11	LINDSEY WILSON COLLEGE SANITARY SEWER REHABILITATION			
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C-13	CARRIE BOLIN DRIVE SANITARY SEWER REHABILITATION			
C-14	HUDSON ST. TO GREENSBURG ST. SANITARY SEWER REHABILITATION			
SD-1	STANDARD DETAILS			
SD-2	STANDARD DETAILS			
SD-3	STANDARD DETAILS			
SD-4	ELECTRICAL DETAILS			

PROJECT LOCATION MAP, UTILITIES, LEGEND and INDEX OF DRAWINGS



PROJECT NO. 20001 SHEET NO. **G-1**

SANITARY SEWER CONSTRUCTION NOTES	GENERAL NOTES
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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.

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PROVIDE 42" MINIMUM JT R/W. ED BY THE ENGINEER, THE CONTRACTOR DETERMINE SUBSURFACE CONDITIONS. LE SIX (6) INCH DIAMETR AND G EXTENDING TWO FEET INSIDE PROPERTY OT AND NOT MORE THAN 1/4 INCH PER ATERALS, AND A MINIMUM COVER OF 18 ERS AND PRIVATE SEPTIC TANKS MUST BE RING CONSTRUCTION OF THE NEW STRUCTION OF THE TRUNK LINES IS FOR EACH RESIDENCE MAY BEGIN. ON THE SUMPLY AND A MINIMUM COVER OF 18 ERS AND PRIVATE SEPTIC TANKS MUST BE RING CONSTRUCTION OF THE MAIN SHALL L CONTRACTOR. M THE SEWER MAIN TO THE CONNECTION SIZE LILLATERAL FROM THE MAIN SHALL L CONTRACTOR. M THE SEWER MAIN TO THE CONNECTION SIZE LOCATING THE EXACT LOCATION OF JSE. THE LATERAL FROM THE MAIN SHALL L CONTRACTOR. M THE SEWER MAIN TO THE CONNECTION SHALL BE REMOVED FROM THE SITE, AND EATOR NITITATED NO LONGER THAN CAVATION WORK HAS STARTED. ALL FOR BACKPISS) AND/OR ADJACENT INDROW OR TRACK. THE SERVICE LATERAL MOTHER SINGER AND IN ACCORDATE AND SHALL LEARNERS AND IN ACCORDATE AND D' THE TRENCH. 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FAND FORCE BALLS MAKE PROVISIONS TO THE FASSAGE OF THAT REPRESE AND FORCE MAINS. ALL PRIVENES AND AND
NO. DATE REVI	SIONS BY DATE: MARCH 2021 PROJECT MGR: MAU DRAWN BY: JAB CHECKED BY: JCT SCALE: AS NOTED 2020 © Kentucky Engineering Group, PLLC	D. Box 1034 S, KENTUCKY 40383 UCCKY S, KENTUCKY 40383 SEWER MAIN REPLACEMENT AND REHABILITATION COLUMBIA-ADAIR UTILITIES DISTRICT	GENERAL NOTES PROJECT NO. 20001

GENERAL NOTES:

- ATRACTOR TO RECONNECT LATERALS TO MANHOLE.
- CONTRACTOR TO VERIFY LOCATION OF EXISTING CONNECTION AND MATCH LOCATION OF NEW MAIN AND DOGHOUSE MANHOLE. (LOCATION SHOWN IS APPROXIMATE)
- 3. SEE SHEET C-12 FOR REHABILITATION WORK IN AREA AND COORDINATE.
- NEW GRAVITY MAIN INSTALLED IN EXISTING TRENCH. ELEVATIONS WILL VARY FROM EXISTING WHICH MAY REQUIRE ROCK REMOVAL.
 CONTRACTOR RESPONSIBLE FOR MAINTAINING SERVICE DURING INSTALLATION OF NEW SEWER.
- 6. EXISTING PIPE AND MANHOLES TO BE REMOVED AND DISPOSED OF PROPERLY. MATERIALS FROM DEMOLISHED STRUCTURES MAY NOT BE USED AS FILL MATERIAL.

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SEWER MAIN REPLACEMENT AND

REHABILITATION

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ELM STREET PLAN - PROFILE



PROJECT NO.
20001
SHEET NO.
C-1

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COLUMBIA-ADAIR UTILITIES DISTRICT

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C-2

UPTON-31/214

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GUTHRIE ST. / HESKAMP ST. PLAN - PROFILE



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13+50

14+00

14+50





GENERAL NOTES: 1. CONTRACTOR SHALL VERIFY ALL SERVICE LATERAL LOCATIONS AND ELEVATIONS PRIOR TO INSTALLATION OF SEWER. ANY CONFLICTS SHALL BE BROUGHT TO THE OWNER/ENGINEER'S ATTENTION IMMEDIATELY. 2. NEW GRAVITY MAIN INSTALLED IN EXISTING TRENCH. ELEVATIONS WILL VARY FROM EXISTING WHICH MAY REQUIRE ROCK REMOVAL. 3. SEE SHEET C-13 FOR REHABILITATION WORK IN AREA AND COORDINATE. 4. CONTRACTOR RESPONSIBLE FOR MAINTAINING SERVICE DURING INSTALLATION OF NEW SEWER.

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PROJECT NO.
20001
SHEET NO.
C-3



BY ANY MEANS. USE THE GRAPHIC SCALE BAR IN THE DRAWING OR TITLE BLOCK TO DETERMINE THE ACTUAL SCALE.





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REHABILITATION COLUMBIA-ADAIR UTILITIES DISTRICT

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TUTT ST. PLAN - PROFILE







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VERSAILLES, KENTUCKY 40383

KENTUCKY ENGINEERING GROUP, PLLC PHASE 19 SEWER SYSTEM

IMPROVEMENTS

SEWER MAIN REPLACEMENT AND

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CASEY CIRCLE PLAN - PROFILE



PROJECT NO. 20001
SHEET NO.
C-6



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DATE:

SCALE:

HELEN FLATT DRIVE PLAN - PROFILE

PROJECT NO.
20001
SHEET NO.
C-7

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PROTECTS\ Columbia-Adair [Itility District\ 20001 - Phase 19-Downtown Sewer\ DWG\ aerials dwo ، لا ا

SITE PLAN, AERIAL PLAN FORCE MAIN PROFILE DON FRANKLIN PUMP STATION

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	S¢ALE: 1"=100' H	ORIZ., 1"=10' VERT.		
	PROFIL	E VIEW		
	EX. 4" PVC FORCE MAIN			
		\		
	LONG HUNTER 2 PUMP			
	TIE IN WITH EX. 4"			
IED TO	ON TOP OF WOVEN GEOTEXTILE FABRIC. SOD SHALL BE REMOVED PRIOR TO PLACING.			
NS AND THE	SOLIDS OUT OF WET WELL PRIOR TO BACKFILLING.			
	16. CONTRACTOR SHALL DEWATER THE STATION AND CLEAN ALL			
	15. CONTRACTOR TO PROVIDE TEMPORARY FENCE FOR COW PASTURE DURING CONSTRUCTION.			
N OF 1.2				

PUMP S	TAT	TION	- PLA	N
SCALE: 3/8"=1'-0"	0	2'	4'	6'

SITE PLAN, PLAN & SECTION, FORCE MAIN PROFILE LONG HUNTER 1 PUMP STATION

20001 SHEET NO. **C-9**

3ID

REFERENCE NOTES:

- 1. DOG HOUSE MANHOLE
- 2. 6'-0" DIAMETER WET WELL
- 3. 6'-0" X 6'-0" VALVE VAULT
- 4. SUBMERSIBLE PUMP
- 5. 4" DI PIPE
- 6. 4" DI 90° ELBOW
- 7. 4" FLEXIBLE COUPLING ADAPTER
- 8. 4" FLANGE COUPLING ADAPTER
- 9. 4" SWING CHECK VALVE
- 10. 4" PLUG VALVE
- 11. 4" DI TEE
- 12. 4" TIDE FLEX CHECK VALVE OR EQUAL
- 13. 8" PVC PIPE

14. GUIDE RAIL

HATCH

- 15. GUIDE RAIL SUPPORT BRACKET
- 16. LINK SEAL OR EQUAL
- 17. 36" X 54" WATERTIGHT ALUMINUM ACCESS HATCH WITH FALL PROTECTION GRATING
- 18. BYPASS PUMPING CONNECTION
- 19. CUT AND PLUG EX. SEWER
- 20. 4'-0" DIAMETER MAG METER VAULT
- 21. 30"X30" WATERTIGHT ALUMINUM ACCES
- 22. 4" MAGNETIC FLOW METER

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NO.	DATE	REVISIONS	

SITE PLAN, PLAN & SECTION, FORCE MAIN PROFILE LONG HUNTER 2 PUMP STATION

20001 SHEET NO. C-10

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LINDSAY WILSON COLLEGE SANITARY SEWER REHABILITATION

BID

NO.	DATE	REVISIONS	

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COLUMBIA-ADAIR UTILITIES DISTRICT

3ID

 SEE SPEC SECTION 99998 FOR MANHOLE REHABILITATION INFORMATION
 SEE SPEC SECTION 99999 FOR MAIN LINE REHABILITATION INFORMATION
 SEE SHEET C-3 FOR MAIN LINE REPLACEMENT IN THE VICINITY AND COORDINATE 3 36 Sec.

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Y	DATE:	MARCH 2021
	PROJECT MGR:	MAU
	DRAWN BY:	JAB
	CHECKED BY:	JCT
	SCALE:	AS NOTED
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NO.	DATE	REVISIONS	

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PROJECT MGR:	MAU	P.O. Box 1034 VERSAILLES, KENTUCKY 40383	IMDDOVEMENTS
DRAWN BY:	JAB		
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SCALE:	AS NOTED		REHABILITATION
2020 © Kentucky Eng	ineering Group, PLLC		COLUMBIA-ADAIR UTILITIES DISTRIC

CAS	ING PIPE	SCHEDULE
CARRIER PIPE SIZE	CASING PIPE SIZE	MINIMUM WALL THICKNESS (INCHES)
2"	6"	0.250
3"	8"	0.250
4"	12"	0.250
6"	14"	0.312
8"	16"	0.312
10"	18"	0.312
12"	20"	0.375
14"	24"	0.375
16"	26"	0.500
20"	30"	0.500
24"	34"	0.500
30"	40"	0.500

SEWER LINE ABOVE

SEWER LINE

BELOW

<u>SECTION</u>

WATER LINE

BID

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ELECTRICAL DETAILS

20001 SHEET NO. SD-4

PROJECT NO.

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