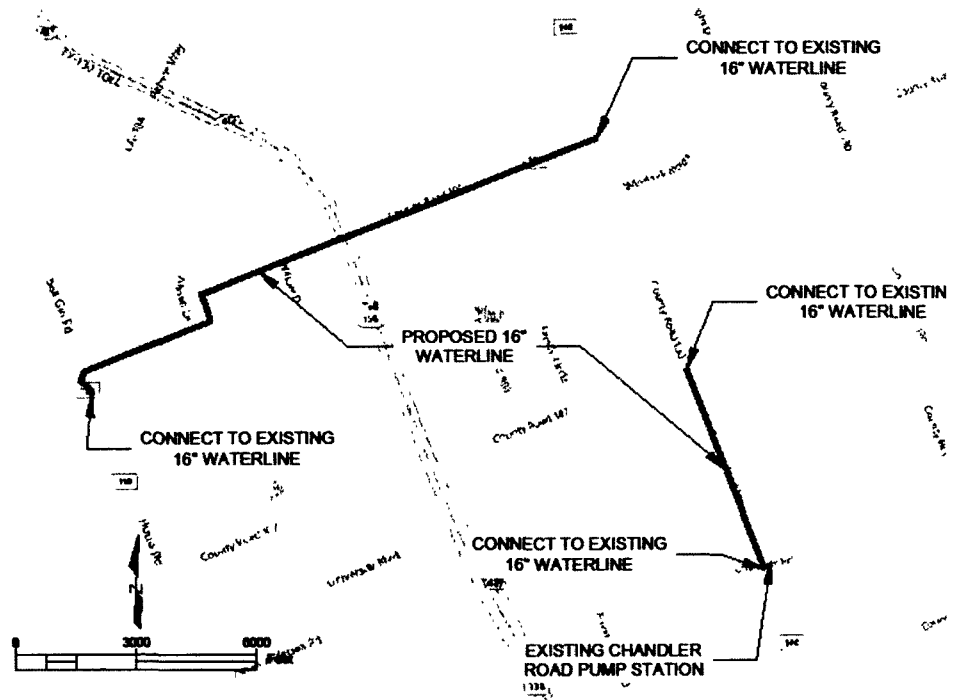


C.I.P. PROJECT NO. 1



COUNTY ROAD 105 & 100 UTILITY IMPROVEMENTS

ESTIMATED
CONSTRUCTION DATE:
2016

THIS PROJECT WOULD CONSIST OF APPROX... 19,350 L.F. OF 16" PVC PIPE TO REPLACE EXISTING 8" PIPE, FROM THE INTERSECTION OF CR 105 AND 110 TO THE INTERSECTION OF CR 105 AND 100, THEN ALSO FROM THE INTERSECTION OF CR 100 AND 107 TO THE INTERSECTION OF CR 100 AND CHANDLER RD.

TRIGGERS: THE EXISTING 8" WATERLINE THAT PARALLELS CR 105 AND 100 HAS PLAGUED THE SYSTEM FOR A FEW YEARS NOW, BY REQUIRING NUMEROUS REPAIRS TO MAINTAIN THE AGING INFRASTRUCTURE.

BENEFITS: WITH THE INSTALLATION OF THIS LINE, JONAH WILL BE MINIMIZE MAINTENANCE TIME SPENT IN THIS AREA AND BE ABLE TO BETTER FOCUS THEIR EFFORTS IN OTHER AREAS. IN ADDITION TO THE MAINTENANCE NEEDS REDUCTIONS, THIS IMPROVEMENTS PROJECT WILL ALLOW THE SYSTEM TO PROVIDE A LOOPED FEED TOWARDS THE EXISTING PLANT NO. 1 ITSELF AND ALSO THE SURROUNDING AREA. THIS WILL BE A GREAT BENEFIT TO THE SYSTEM IN THE COMING FUTURE, AS GROWTH OF THE WESTERN PARTS OF THE SYSTEM CONTINUES TO INCREASE.

PRELIMINARY OPINION OF PROBABLE COST:

CONSTRUCTION COST:

PROPOSED REPLACEMENT OF 8" PIPING WITH 16"
PIPING

\$1,539,544

OTHER COST:

ENGINEERING FEES

\$110,852

LEGAL (EXCLUDING BOND ATTORNEY FEES)

\$500

INSPECTION

\$30,791

CONTINGENCIES

\$153,954

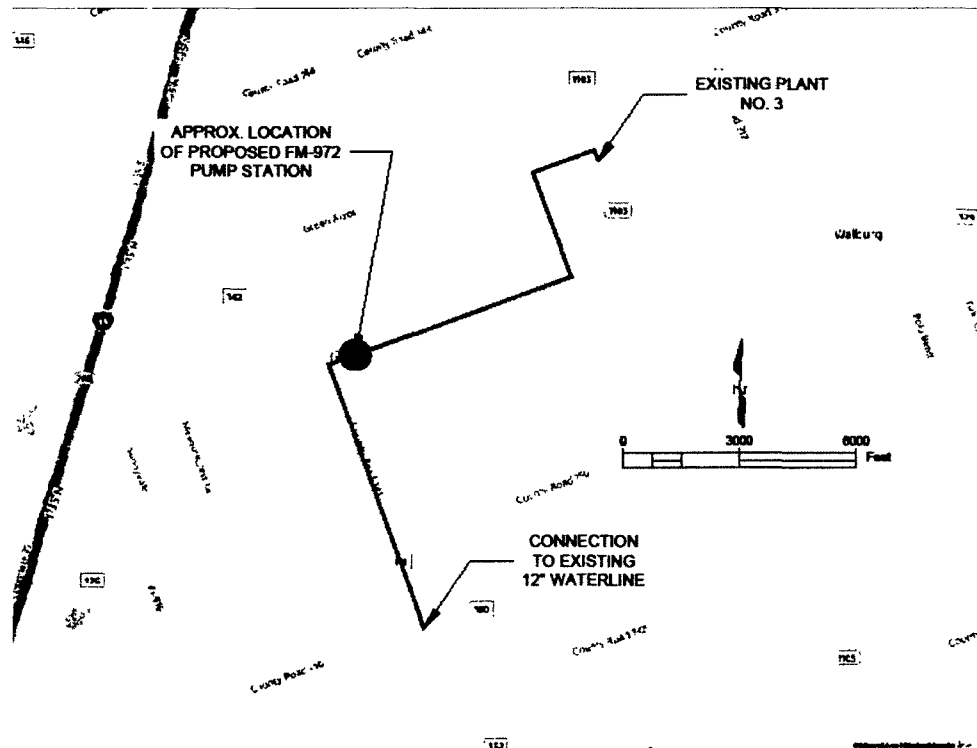
TOTAL OTHER COST

\$296,097

TOTAL C.I.P. NO. 1 COST

\$1,835,641

C.I.P. PROJECT NO. 2



PLANT NO. 3 REFILL

ESTIMATED
CONSTRUCTION
DATE; 2016

THIS PROJECT WOULD CONSISTED OF APPROX... 18,200 L.F. OF 12" PVC PIPE TO BE INSTALLED FROM THE INTERSECTION OF C.R. 141 AND C.R. 150 TO THE PROPOSED FM-972 PUMP STATION THEN CONTINUE ON WITH A 12" UP TO EXISTING PLANT NO. 3. THE PROPOSED FM 972 PUMP STATION WOULD INCLUDE THE CONSTRUCTION OF A 0.25 MG GROUND STORAGE TANK, 2 - 1,390 GPM PUMPS, ELEC.

/CL₂/L.A.S. BUILDING, SITE PIPING, AND SITE FENCING.

TRIGGERS:

THERE HAS BEEN CONSIDERABLE NEED FOR THIS PROJECT FOR SEVERAL YEARS, THEREFORE IMMEDIATE ACTION SHOULD BE TAKEN TO IMPLEMENT THIS PROJECT.

BENEFITS:

CURRENTLY EXISTING PLANT NO. 3 HAS ONLY ONE SUPPLY, THAT BEING FROM THE EXISTING WELL AT THE PLANT. THIS PROJECT WILL PROVIDE AN ADDITIONAL SUPPLY OF WATER IN THE EVENT OF WELL PUMP FAILURE, OR DECREASED PRODUCTION FROM THE WELL.

PRELIMINARY OPINION OF PROBABLE COST:

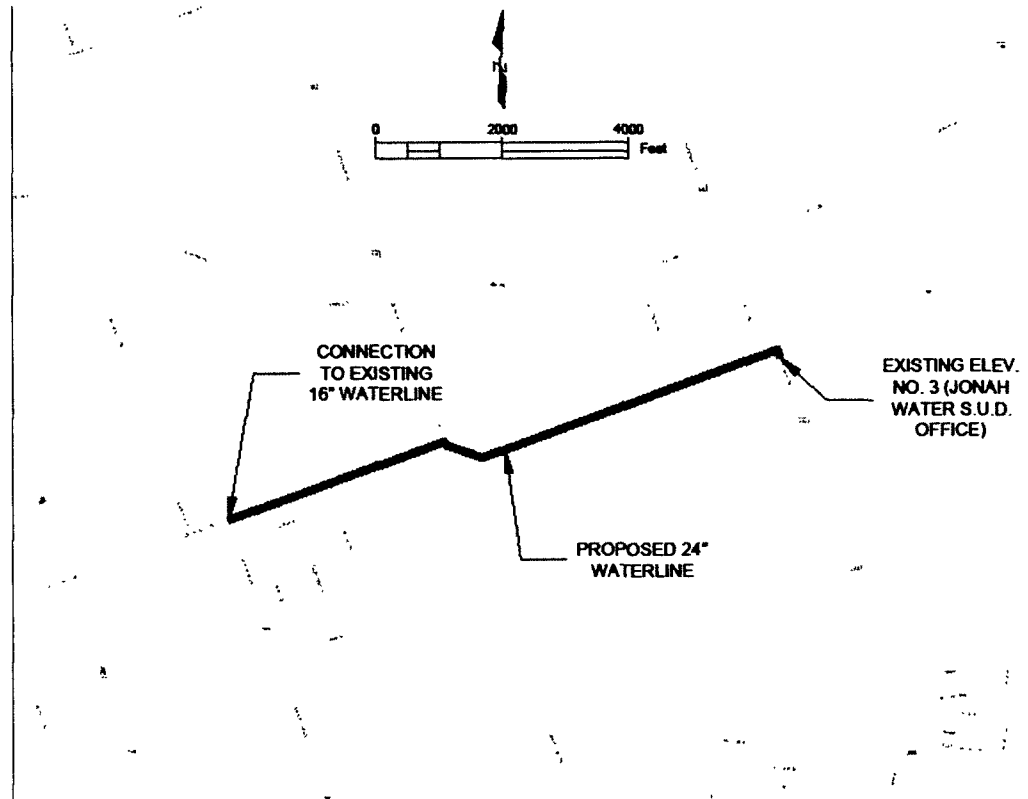
CONSTRUCTION COST:

PROPOSED FM-972 PUMP STATION	\$1,786,250
12" PIPING	\$1,412,500
<u>TOTAL CONSTRUCTION COST</u>	<u>\$3,198,750</u>

OTHER COST:

ENGINEERING FEES	\$224,350
GEOTECHNICAL	\$8,000
LEGAL (EXCLUDING BOND ATTORNEY FEES)	\$3,000
RECORDING & ABSTRACTING	\$2,000
INSPECTION	\$63,975
CONTINGENCIES	<u>\$639,750</u>
<u>TOTAL OTHER COST</u>	<u>\$941,075</u>
<u>TOTAL C.I.P. NO. 2 COST</u>	<u>\$4,139,825</u>

C.I.P. PROJECT NO. 3



PLANT NO. 8 REFILL

**ESTIMATED
CONSTRUCTION
DATE; 2016-17**

THIS PROJECT WOULD CONSIST OF APPROX... 9,910 L.F. OF 24" PVC PIPE TO REPLACE AN EXISTING 12" PIPE, FROM EXISTING ELEVATED NO. 3 (OFFICE), ALONG COUNTY ROAD 100 AND 118, TO COUNTY ROAD 108 AND CONNECTION TO AN EXISTING 16" PIPE.

TRIGGERS:

THE BUILDOUT OF THE PROPOSED 2,700 SIENA SUBDIVISION SINGLE FAMILY LOTS IS SCHEDULED FOR YEAR 2023 AND THE 1,500 SIENA MULTI-FAMILY UNITS ARE TO BE COMPLETED BY YEAR 2029. A MAJORITY OF THIS SUBDIVISION IS SERVED BY EXISTING PLANT NO. 8. THE SUPPLY OF WATER FOR EXISTING PLANT NO. 8 COMES FROM EXISTING ELEVATED NO. 3. THE CONTINUED DEVELOPMENT OF THE SIENA SUBDIVISION, PLUS NORMAL GENERAL SYSTEM GROWTH, WILL REQUIRE THAT THE SUPPLY TO EXISTING PLANT NO. 8 BE INCREASED BY THE YEAR 2023.

BENEFITS: CURRENTLY EXISTING PLANT NO. 8'S SUPPLY IS RESTRICTED BY THE EXISTING 12" FEEDING AN EXISTING 16" PIPE. THE PROPOSED REPLACEMENT OF THE EXISTING 12" LINE WILL INCREASE THE EXISTING SUPPLY AND WILL BE THE FIRST STEP IN PROVIDING UP TO 2,751 GPM TO MEET THE PROJECTED 20 YEAR GROWTH SUPPLY WHEN COUPLED WITH OTHER PROPOSED IMPROVEMENTS.

PRELIMINARY OPINION OF PROBABLE COST:

CONSTRUCTION COST:

PROPOSED REPLACEMENT OF 12" PIPING WITH 24"
PIPING

\$1,552,713

OTHER COST:

ENGINEERING FEES \$94,715

LEGAL (EXCLUDING BOND ATTORNEY FEES) \$500

RECORDING & ABSTRACTING \$400

INSPECTION \$31,054

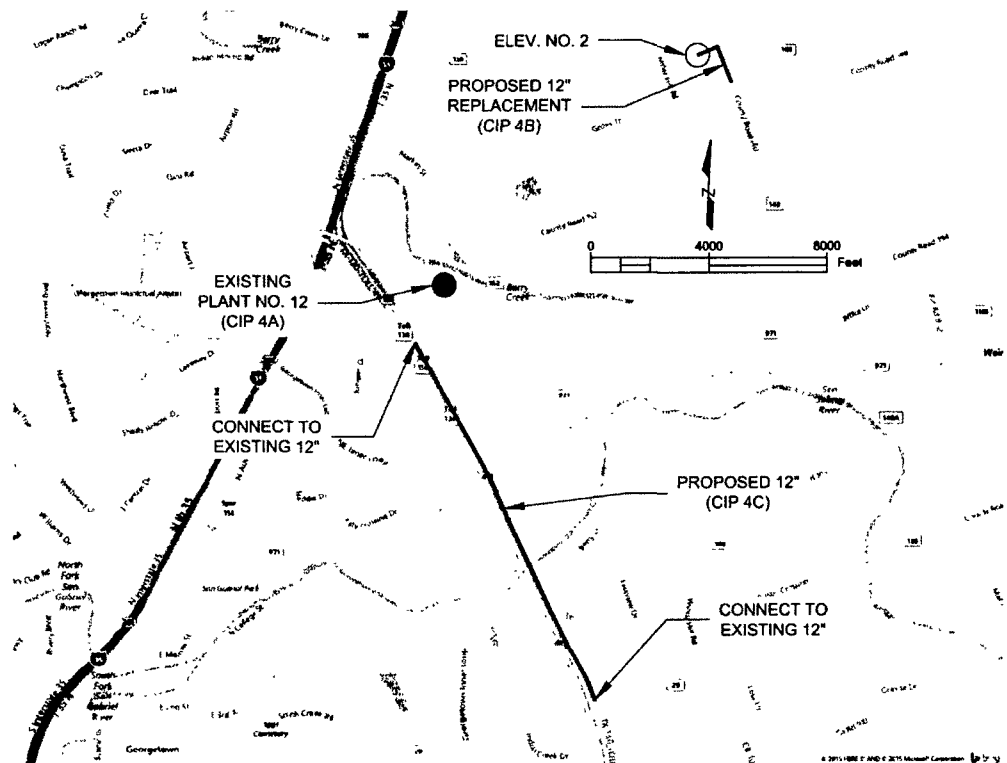
CONTINGENCIES \$310,543

TOTAL OTHER COST \$437,212

TOTAL C.I.P. NO. 3 COST \$1,989,925



C.I.P. PROJECTS NO. 4A, 4B, & 4C (6/20/18)



SURFACE WATER TO PLANT NO. 12 & ADDITIONAL WELL UTILIZATION

ESTIMATED
CONSTRUCTION
DATE; 2019-
2021

THE INTENT OF THIS LIST OF PROJECTS WOULD INCREASE THE WATER SUPPLY IN THE NORTHERN SECTIONS OF JONAH'S SYSTEM. THESE PROJECTS WILL ACHIEVED THIS BY BOTH CONSTRUCTING FACILITIES TO UTILIZE A NEWLY ACQUIRED WELL FROM THE CITY OF GEORGETOWN (GEORGETOWN WELL) AND THEN ALSO BY CONSTRUCTING A 12" WATERLINE TO PUSH WATER FROM PLANT NO. 1 TO PLANT NO. 12, WHICH IN TURN WILL PUSH WATER TO ELEVATED NO. 2.

C.I.P. PROJECTS NO. 4A, 4B, & 4C (6/20/18)

4A. PLANT NO. 12 IMPROVEMENTS

DESCRIPTION: THIS PROJECT WOULD CONSIST OF MAKING IMPROVEMENTS TO EXISTING PLANT NO. 12 TO DRILL A REPLACEMENT WELL FOR THE EXISTING GEORGETOWN WELL AND INCREASE THE SUPPLY TO EXISTING ELEVATED NO. 2. THE PROPOSED IMPROVEMENTS WOULD INCLUDE ADDING A 0.25 MG GROUND STORAGE TANK, TWO 1,150 GPM PUMPS, BUILDING, CONTROLS, DISINFECTION EQUIPMENT, FENCING, DRILLING A NEW WELL, INSTALLING PUMP AND MOTOR FOR THE REPLACEMENT WELL AND POSSIBLY RESTAGING THE EXISTING WELL PUMP AT PLANT NO. 12, FOR LOWER HEAD CONDITIONS.

TRIGGERS: THE NEED FOR THIS PROJECT COMES FROM THE LACK OF EXISTING INFRASTRUCTURE TO UTILIZE THE GEORGETOWN WELL AND CURRENT GROWTH DEMAND.

BENEFITS: THESE PROPOSED PLANT NO. 12 IMPROVEMENTS WILL ALLOW UTILIZATION OF THE GEORGETOWN WELL AND WILL INCREASE SUPPLY TO EXISTING ELEVATED NO. 2 TO 1,150 GPM, PENDING REPLACEMENT WELL YIELDS, PROVIDING GREATER SUPPLY FOR EXISTING ELEVATED NO. 2 AND EXISTING PLANT NO. 3 SERVICE AREAS.

PRELIMINARY OPINION OF PROBABLE COST:

CONSTRUCTION COST:

PROPOSED PLANT NO. 12 IMPROVEMENTS,
INCLUDING REPLACEMENT WELL.

\$1,850,000

4B. IMPROVEMENTS TO SUPPLY LINE FROM EXISTING PLANT NO. 12 TO EXISTING ELEVATED NO. 2

DESCRIPTION: THIS PROJECT WOULD CONSIST OF REPLACING AN EXISTING 8" LINE WITH A NEW 16" LINE FROM EXISTING ELEVATED NO. 2, ALONG COUNTY ROAD 140, TO PRIVATE ROAD 162 TO TAKE ADVANTAGE OF THE PROPOSED INCREASED SUPPLY DEVELOPED WITH THE C.I.P. NO. 4A PROJECT.

TRIGGERS: THIS PROJECT SHOULD BE CONSTRUCTED ALONG WITH CONSTRUCTION OF THE PROPOSED C.I.P. NO. 4A PROJECT

BENEFITS: THIS PROJECT WILL ELIMINATE A PIPING BOTTLENECK AND WILL ALLOW THE FULL TRANSMISSION OF SUPPLY FROM EXISTING PLANT NO. 12 TO EXISTING ELEVATED NO. 2.

PRELIMINARY OPINION OF PROBABLE COST:

CONSTRUCTION COST:

PROPOSED EXISTING 8" PIPING REPLACEMENT
WITH NEW 16" PIPING

\$308,670

4C. EMERGENCY SURFACE WATER SUPPLY TO EXISTING PLANT NO. 12

DESCRIPTION: THIS PROJECT WOULD CONSIST OF THE INSTALLATION OF APPROXIMATELY 12,600 L.F. OF 12" ALONG THE EAST SIDE OF SH-130, FROM THE INTERSECTION OF HWY 29 AND SH-130 TO ABOUT 1,250 FEET SHY OF THE INTERSECTION OF CR 152 AND SH-130.

TRIGGERS: CURRENTLY THERE IS NO EXISTING OPERABLE PIPELINE CROSSING THE RIVER IN THIS AREA OF THE SYSTEM, AND THEREFORE THERE IS NO SYSTEM CONNECTION BETWEEN THE NORTH AND SOUTH SIDES OF THE RIVER FOR SEVERAL MILES. THIS PROJECT SHOULD BE CONSTRUCTED ALONG WITH CONSTRUCTION OF THE PROPOSED C.I.P. NO. 4A AND 4B PROJECTS.

BENEFITS: IN CASE OF EXISTING WELL FAILURES AT PLANT NO. 12, THIS PROJECT WILL PROVIDE A NEEDED EMERGENCY SUPPLY OF SURFACE WATER TO EXISTING PLANT NO. 12 FROM THE PORTION OF THE SYSTEM SERVED BY EXISTING PLANT NO. 1.

PRELIMINARY OPINION OF PROBABLE COST:

CONSTRUCTION COST:

PROPOSED 12" PIPING, INCLUDING RIVER
CROSSING

\$1,545,950

C.I.P. NO. 4 PROJECT CONSTRUCTION TOTALS

\$3,704,620.00

OTHER COSTS: (C.I.P. NO. 4A, 4B, & 4C)

ENGINEERING FEES

PIPING \$129,823

PLANTS \$129,420

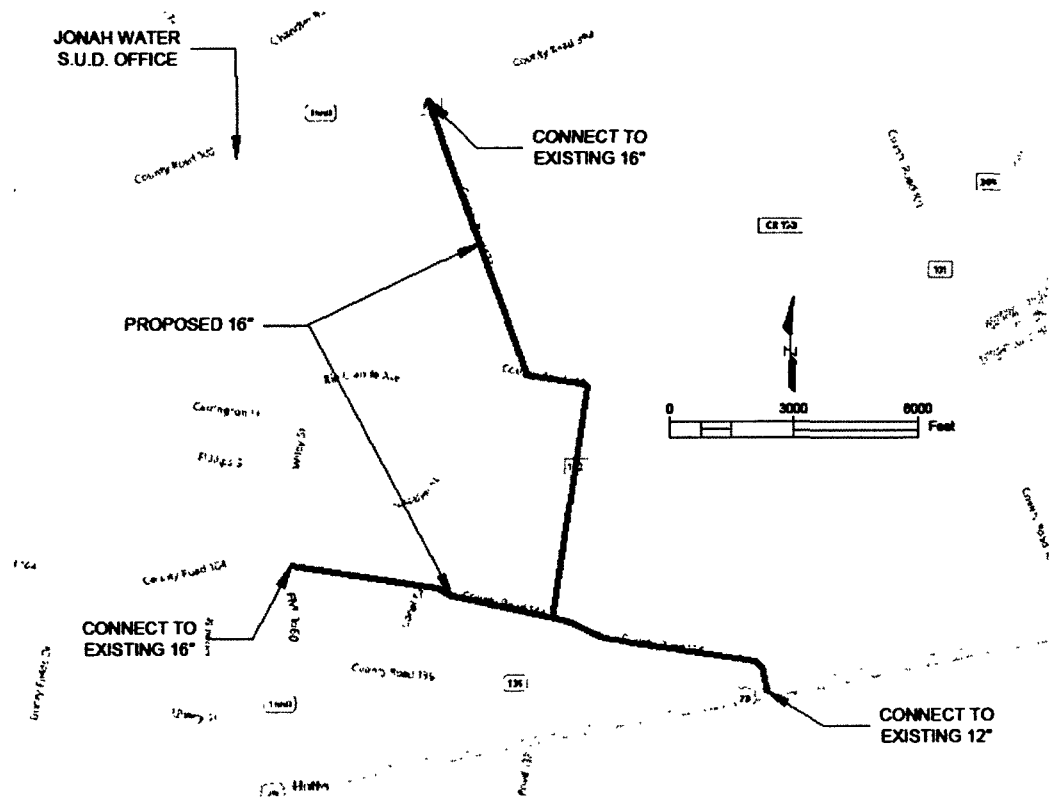
TOTAL C.I.P. NO. 4A, 4B & 4C ENGINEERING
FEES \$259,243

LEGAL (EXCLUDING BOND ATTORNEY FEES) \$5,000

C.I.P. PROJECTS NO. 4A, 4B, & 4C (6/20/18)

RECORDING & ABSTRACTING	\$3,000	
INSPECTION	\$59,092	
CONTINGENCIES	<u>\$740,924</u>	
TOTAL C.I.P. NO. 4 OTHER COSTS		\$1,067,259
TOTAL C.I.P. NO. 4 COST		<u>\$4,771,879</u>

C.I.P. PROJECT NO. 5



COUNTY ROAD 133, 132, AND LIMMER LOOP DISTRIBUTION LOOP CLOSURE

ESTIMATED
CONSTRUCTION
DATE;
2017-19

THIS PROJECT WOULD CONSIST OF APPROX... 26,500 L.F. OF 16" PVC PIPE RUNNING ALONG COUNTY ROAD 133 AND 132, FROM COUNTY ROAD 394 TO LIMMER LOOP, AND ALONG LIMMER LOOP FROM FM 1660 TO U.S. HWY. 79.

TRIGGERS:

CURRENTLY THE DEVELOPMENTS NORTH OF HUTTO AND EAST OF FM HWY. 1660 HAVE ONLY ONE SUFFICIENT FEED ALONG FM HWY. 1660. PROPOSED NEW DEVELOPMENTS IN THIS AREA, AND GROWTH SOUTH OF U.S. HWY. 79 REQUIRE THIS DISTRIBUTION SYSTEM IMPROVEMENT TO BE CONSTRUCTED DURING 2017 TO MEET THE PROJECTED HYDRAULIC DEMANDS.

BENEFITS:

THIS PROJECT WILL MEET TWO GOALS, ONE BEING INCREASING THE DISTRIBUTION SYSTEM CAPACITY AND SECONDLY PROVIDING THE CLOSURE OF TWO MAIN DISTRIBUTION SYSTEM LOOPS TO PROVIDE REDUNDANCY IN CASE OF A MAJOR WATER LEAK.

PRELIMINARY OPINION OF PROBABLE COST:

CONSTRUCTION COST:

PROPOSED 16" PIPING SYSTEM	\$3,807,100
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OTHER COST:

ENGINEERING FEES	\$201,776
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LEGAL (EXCLUDING BOND ATTORNEY FEES)	\$2,000
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RECORDING & ABSTRACTING	\$1,000
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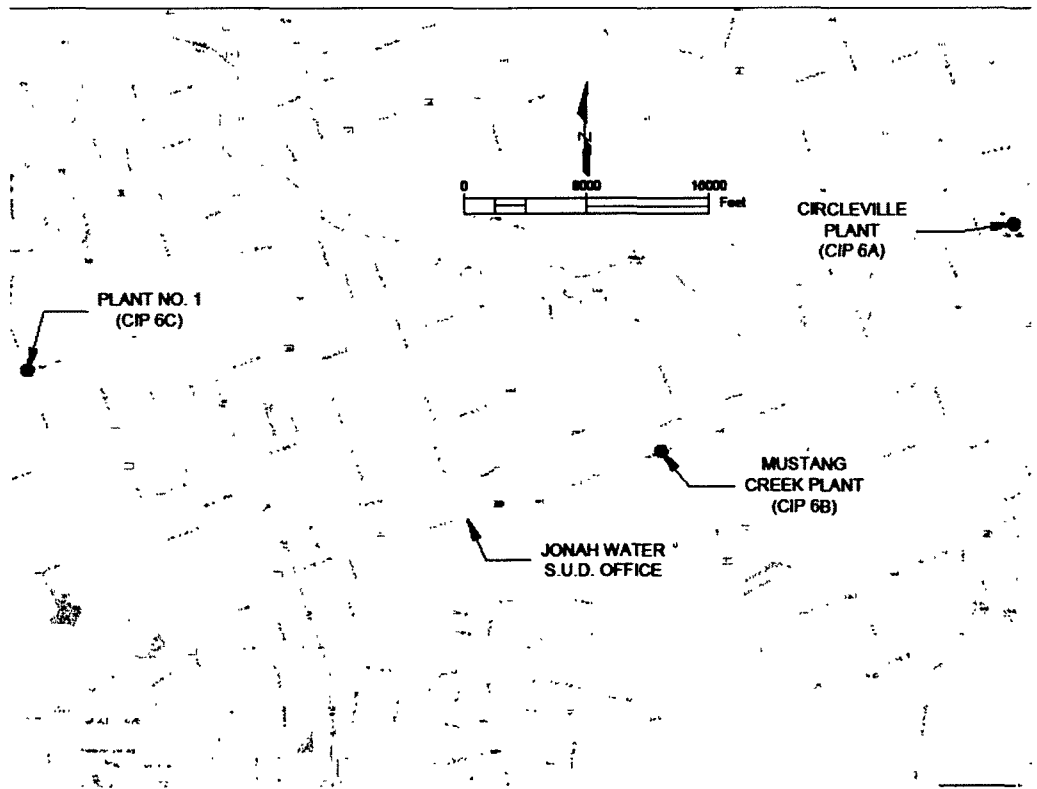
INSPECTION	\$76,142
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CONTINGENCIES	<u>\$761,420</u>
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TOTAL OTHER COST	\$1,042,338
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TOTAL C.I.P. NO. 5 COST	<hr/> \$4,849,438
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C.I.P. PROJECT NO. 6A, 6B, & 6C



PLANT IMPROVEMENTS TO INCREASE SUPPLY

THIS PROJECT WOULD CONSIST OF THE FOLLOWING PLANT IMPROVEMENTS:

- 6A. CIRCLEVILLE PLANT - REPLACE EXISTING PUMPS WITH TWO 3,495 GPM PUMPS, INCLUDING ELECTRICAL AND PIPING MODIFICATIONS.
- 6B. MUSTANG CREEK PLANT - ADD ONE 2,590 GPM PUMP, INCLUDING ELECTRICAL AND PIPING MODIFICATIONS.
- 6C. PLANT NO. 1- ADD 2,000 GPM PUMP, INCLUDING ELECTRICAL AND PIPING MODIFICATIONS.

ESTIMATED
CONSTRUCTION
DATE; 2018-20

TRIGGERS: THESE IMPROVEMENTS MUST BE MADE AS A FIRST STEP IN INCREASING SUPPLY OF WATER FROM THE CIRCLEVILLE PLANT TO THE MUSTANG CREEK PLANT AND FROM THE MUSTANG CREEK PLANT TO ELEVATED STORAGE NO. 3. AND INCREASE SUPPLY FROM ELEVATED STORAGE NO. 3, TO THE CHANDLER ROAD PUMP STATION, AND ON TO PLANT NO. 1. THE CONTINUED DEVELOPMENT OF THE SIENA SUBDIVISION AND THE DEVELOPMENT OF THE WOODHULL SUBDIVISION, COUPLED WITH NORMAL GROWTH, NECESSITATE THE CONSTRUCTION OF THESE PLANT IMPROVEMENTS NO LATER THAN YEAR 2018 TO SUPPLY WATER DEMANDS.

BENEFITS: THESE PLANT IMPROVEMENTS WILL PROVIDE INCREASED SUPPLY TO THE MUSTANG CREEK, ELEVATED NO. 3, PLANT NO. 1 AND PLANT 8 AS A STEP TOWARD SUPPLY FOR THESE PLANTS SERVICE AREAS.

PRELIMINARY OPINION OF PROBABLE COST:

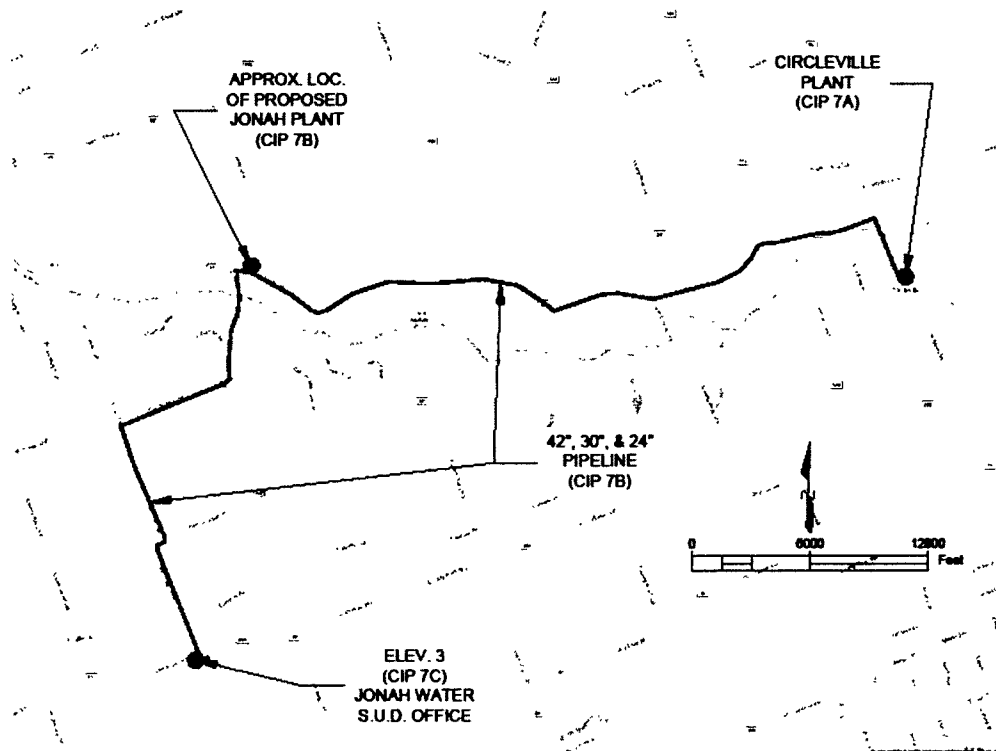
CONSTRUCTION COST:

6A.	CIRCLEVILLE PLANT IMPROVEMENTS	\$400,000	
6B.	MUSTANG CREEK PLANT IMP.	\$300,000	
6C.	PLANT NO. 1 IMPROVEMENTS	<u>\$250,000</u>	
	TOTAL C.I.P. NO. 6 CONSTRUCTION COST		\$950,000

OTHER COSTS:

ENGINEERING FEES	\$72,200	
LEGAL (EXCLUDING BOND ATTORNEY FEES)	\$500	
INSPECTION	\$19,000	
CONTINGENCIES	<u>\$190,000</u>	
TOTAL OTHER COST		<u>\$281,700</u>
TOTAL YEAR 2018 C.I.P. NO. 6 COST		\$1,231,700

C.I.P. PROJECTS NO.7A, 7B, 7C, &7D



IMPROVEMENTS TO INCREASE/PROVIDE SUPPLY TO ELEVATED NO. 3 AND FUTURE ELEVATED NO. 7

THIS PROJECT WOULD CONSIST OF THE FOLLOWING IMPROVEMENTS:

- 7A. CIRCLEVILLE PLANT - ADD A 0.50 MG GROUND STORAGE TANK; ADD TWO 6,610 GPM PUMPS; INCLUDING ELECTRICAL AND PIPING MODIFICATIONS. INCREASE SUPPLY FROM BRA TO 4.36 MGD WITH A PEAK OF 10.89 MGD, PLUS 2 MGD FOR FUTURE WHOLESALE.
- 7B. ADD NEW JONAH PUMP STATION AT THE INTERSECTION OF STATE HWY. 29 AND COUNTY ROAD 126 WITH; 0.25 MG GROUND STORAGE TANK; TWO 3,260 GPM PUMPS; BUILDING, PIPING, ELECTRICAL, CONTROLS, DISINFECTION EQUIPMENT AND FENCING.
- 7C. ELEVATED NO. 3 - ADD 1 MG GROUND STORAGE TANK; ADD TWO 2,800 GPM PUMPS FOR SUPPLY TO PLANT NO. 8; ADD TWO 1,500 GPM PUMPS FOR TRANSFER FROM GROUND STORAGE TO ELEVATED STORAGE; ADD BUILDING WITH CONTROLS, ELECTRICAL AND DISINFECTION EQUIPMENT; INCLUDING ELECTRICAL AND PIPING MODIFICATIONS AND FENCING.

ESTIMATED
CONSTRUCTION
DATE; 2020

7D. PIPING – INSTALL APPROXIMATELY 65,200 L.F. OF PIPELINE TO REPLACE EXISTING PIPING ALONG SH-95, TO SH-29, AND ALONG SH-29 TO THE PROPOSED JONAH PUMP STATION; WITH 42" AND 30" PIPING. INSTALL 24" PIPING FROM THE PROPOSED JONAH PUMP STATION, ALONG FM-1660, COUNTY ROAD 131 AND COUNTY ROAD 130 TO THE PROPOSED GROUND STORAGE TANK AT ELEVATED STORAGE NO. 3.

TRIGGERS: THESE IMPROVEMENTS MUST BE MADE AS A SECOND STEP IN INCREASING SUPPLY OF WATER FROM THE CIRCLEVILLE PLANT TO ELEVATED STORAGE NO.3, WHICH IN TURN INCREASES SUPPLY TO PLANT NO. 1, FUTURE ELEVATED STORAGE NO. 8 AND PLANT NO. 8. THE CONTINUED DEVELOPMENT OF THE SIENA SUBDIVISION AND THE DEVELOPMENT OF THE WOODHULL SUBDIVISION, COUPLED WITH NORMAL GROWTH, NECESSITATE THE CONSTRUCTION OF THESE IMPROVEMENTS NO LATER THAN YEAR 2020 TO SUPPLY WATER DEMANDS.

BENEFITS: THESE IMPROVEMENTS WILL PROVIDE INCREASED SUPPLY TO THE SOUTHERN AND WESTERN PORTIONS OF THE SYSTEM TO MEET OBLIGATED SUBDIVISION DEMANDS. IN ADDITION, THE PIPING BETWEEN THE CIRCLEVILLE PUMP STATION AND THE PROPOSED JONAH PUMP STATION WILL SUPPORT THE SUPPLY TO A FUTURE ELEVATED STORAGE NO. 7 ALONG WITH A POSSIBLE FUTURE 2 MGD WHOLESALE DEMAND.

PRELIMINARY OPINION OF PROBABLE COST:

CONSTRUCTION COSTS:

7A.	CIRCLEVILLE PLANT IMPROVEMENTS	\$1,500,000	
7B.	NEW JONAH PUMP STATION	\$1,900,000	
7C.	ELEVATED STORAGE NO. 3 IMP.	\$2,500,000	
7D.	PIPING	<u>\$17,956,013</u>	
	TOTAL C.I.P. NO. 7 CONSTRUCTION COST		\$23,856,013

OTHER COSTS;

ENGINEERING FEES;

PIPING	\$718,241
CONCRETE TANKS	\$92,813
PLANTS	<u>229,350</u>

TOTAL ENGINEERING FEES	\$1,040,403
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GEOTECHNICAL INVESTIGATIONS FOR TANKS	12,000
PROPERTY AND TOPOGRAPHIC SURVEYS	99,050
LAND FOR JONAH PUMP STATION	10,000

LEGAL (EXCLUDING BOND ATTORNEY FEES)	8,000
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RECORDING AND ABSTRACTING	4,000
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INSPECTION	\$357,840
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CONTINGENCIES

\$4,771,203

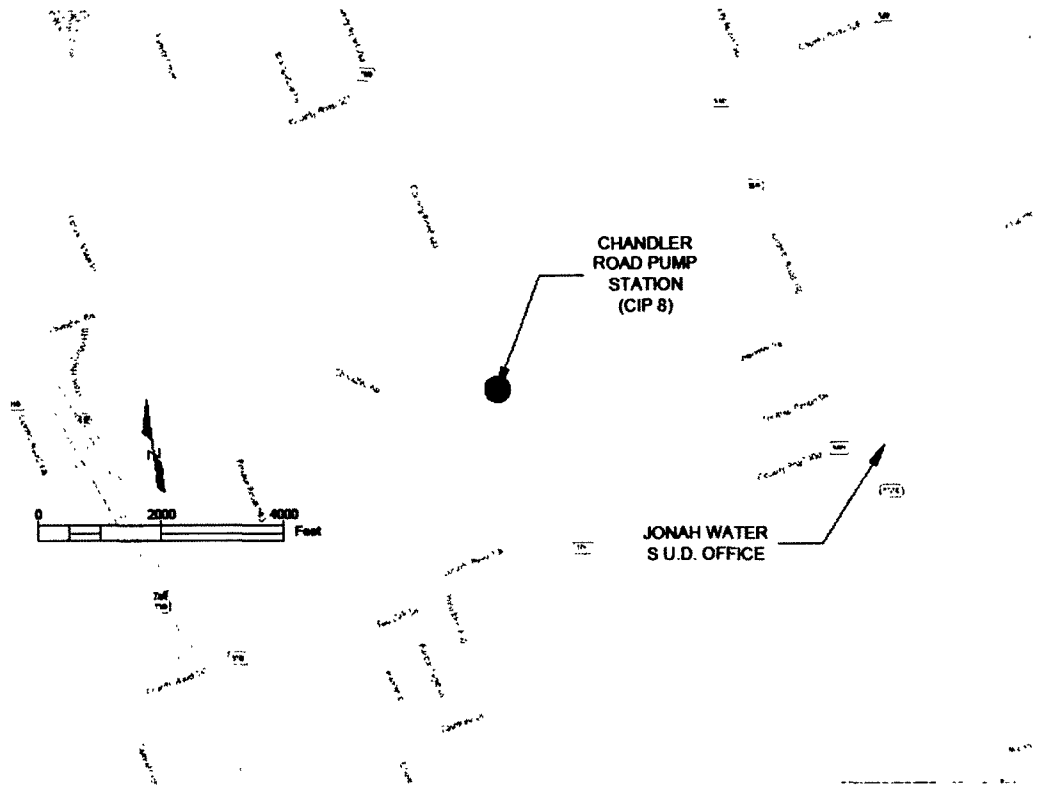
TOTAL OTHER COST

\$6,302,496

TOTAL YEAR 2020 C.I.P. NO. 7 COST

\$30,158,508

C.I.P. PROJECT NO. 8



CHANDLER ROAD PUMP STATION IMPROVEMENTS

ESTIMATED
CONSTRUCTION
DATE; 2023-
2025

CHANDLER ROAD PUMP STATION - Add 60,000 GAL. GROUND STORAGE TANK; REPLACE EXISTING PUMPS WITH TWO 2,000 GPM PUMPS, INCLUDING ELECTRICAL AND PIPING MODIFICATIONS AND DISINFECTION EQUIPMENT.

TRIGGERS:

WHEN DEVELOPMENT IN THE PLANT NO. 1 SERVICE AREA REQUIRES THAT THE SUPPLY DEMAND IS GREATER THAN 1,500 GPM THAT CAN CURRENTLY BE SUPPLIED FOR REFILL TO THE PLANT.

BENEFITS:

THIS PROJECT WILL PROVIDE SUFFICIENT SUPPLY TO THE PLANT TO PROVIDE FOR THE ANTICIPATED GROWTH FOR THE AREA.

PRELIMINARY OPINION OF PROBABLE COST:

CONSTRUCTION COST:

CHANDLER RD. PUMP STA. IMP.	<u>\$1,100,000</u>
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OTHER COST:

ENGINEERING FEES;	<u>\$86,700</u>
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GEOTECHNICAL INVESTIGATIONS FOR TANKS	\$7,000
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PROPERTY AND TOPOGRAPHIC SURVEYS	\$5,000
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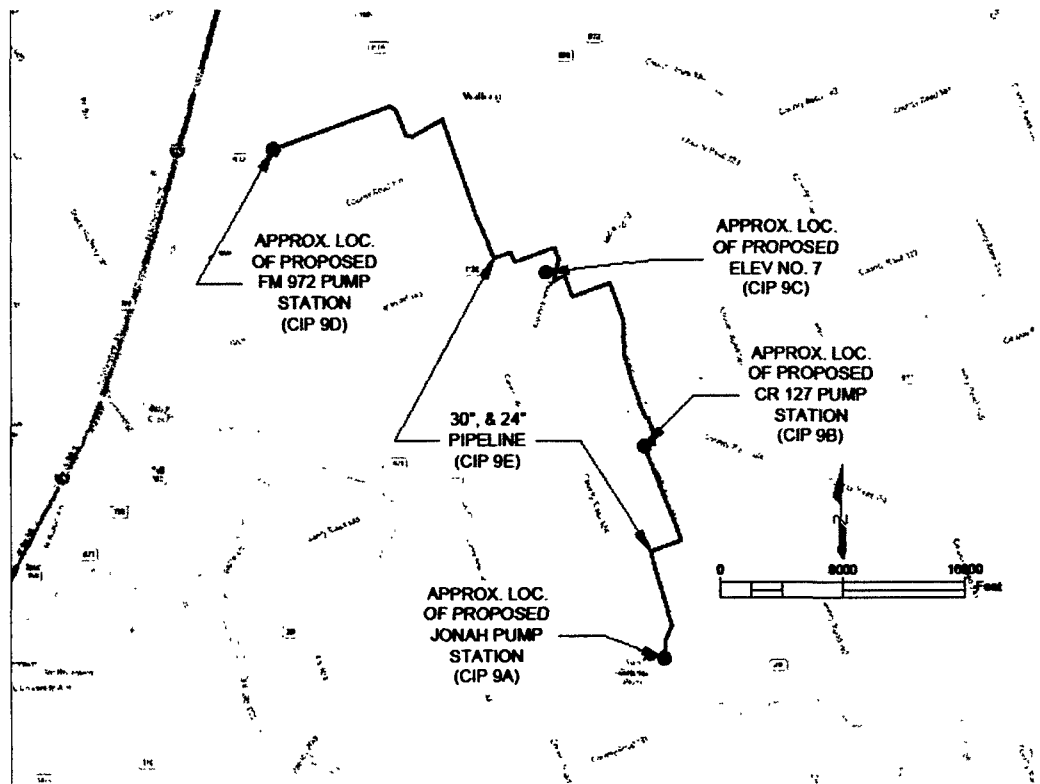
INSPECTION	\$22,000
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CONTINGENCIES	<u>\$220,000</u>
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TOTAL OTHER COSTS	<u>\$340,700</u>
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TOTAL YEAR 2030 C.I.P. NO. 8 COST	\$1,440,700
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C.I.P. PROJECTS NO. 9A, 9B, 9C, 9D, & 9E



IMPROVEMENTS TO PROVIDE SURFACE WATER TO THE NORTHERN PART OF THE SYSTEM

THIS PROJECT WOULD CONSIST OF THE FOLLOWING IMPROVEMENTS:

- 9A. JONAH PUMP STATION IMPROVEMENTS – Add Two 3,350 GPM PUMPS; INCLUDING ELECTRICAL, CONTROLS AND PIPING MODIFICATIONS.
- 9B. ADD NEW CR-127 PUMP STATION AT THE INTERSECTION OF COUNTY ROAD 124 AND COUNTY ROAD 127 WITH; 0.11 MG GROUND STORAGE TANK; TWO 3,350 GPM PUMPS; BUILDING, PIPING, ELECTRICAL, CONTROLS, DISINFECTION EQUIPMENT AND FENCING.
- 9C. NEW ELEVATED NO. 7 – WITH 1.5 MG GROUND STORAGE TANK; 1.5 COMPOSITE ELEVATED STORAGE; TWO 3,720 GPM PUMPS; BUILDING WITH CONTROLS, ELECTRICAL AND DISINFECTION EQUIPMENT; INCLUDING ELECTRICAL AND PIPING MODIFICATIONS AND FENCING.
- 9D. CONNECTION TO FM-972 PUMP STATION
- 9E. PIPING – INSTALL APPROXIMATELY 32,000 L.F. OF PIPELINE TO REPLACE EXISTING PIPING FROM THE JONAH PUMP STATION TO PROPOSED ELEVATED NO. 7; WITH 30" AND 24" PIPING.

ESTIMATED
CONSTRUCTION
DATE; 2025-
30

INSTALL APPROXIMATELY 25,900 L.F. OF 24" PIPING FROM
PROPOSED ELEVATED NO. 7 TO PROPOSED FM-972 PUMP
STATION.

TRIGGERS: THE TRIGGER FOR THE INSTALLATION OF THESE IMPROVEMENTS WILL
DEPEND UPON SEVERAL FACTORS, THOSE BEING; NEED FOR SURFACE
WATER TO REPLACE AND /OR SUPPLEMENT WELL WATER; GROWTH IN THE
NORTHERN PART OF THE SYSTEM; NEED TO REPLACE EXISTING PLANT NO.
4; AND DEMAND FOR WHOLESALE WATER. BEST GUESS AT THIS TIME IS
YEAR 2025.

BENEFITS: THESE IMPROVEMENTS WILL PROVIDE A SURFACE WATER
SUPPLY TO THE NORTHERN PART OF THE SYSTEM, INCLUDING A POSSIBLE
FUTURE 2 MGD WHOLESALE DEMAND AT THE PROPOSED FM-972 PUMP
STATION. PROPOSED ELEVATED STORAGE NO. 7 WILL REDUCE THE LOAD
ON EXISTING PLANT NO. 3, PLANT NO. 9 AND WILL ELIMINATE THE NEED
FOR EXISTING PLANT NO. 4.

PRELIMINARY OPINION OF PROBABLE COST:

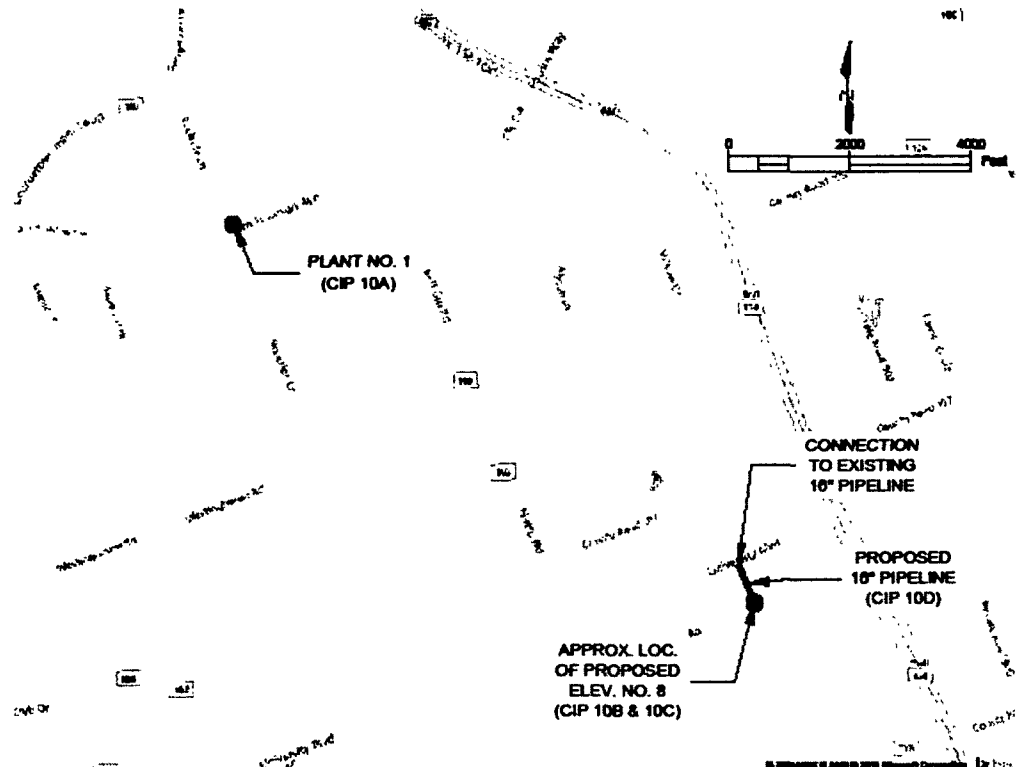
CONSTRUCTION COST:

9A.	JONAH PUMP STATION IMP.	\$400,000	
9B.	NEW CR-27 PUMP STATION	\$1,800,000	
9C.	ELEVATED STORAGE NO. 7	\$5,800,000	
9D.	CONNECTION TO FM-972 PUMP STA.	\$20,000	
9E.	PIPING	<u>\$9,427,425</u>	
TOTAL C.I.P. NO. 9A, 9B, 9C, 9D, & 9E			
CONSTRUCTION COSTS			\$17,447,425

OTHER COST:

ENGINEERING FEES;		
PIPING	\$405,379	
CONCRETE TANKS	\$108,000	
ELEVATED STORAGE	\$243,750	
PLANTS	<u>\$325,092</u>	
TOTAL ENGINEERING FEES	\$1,082,221	
GEOTECHNICAL INVESTIGATIONS FOR TANKS	18,000	
PROPERTY AND TOPOGRAPHIC SURVEYS	88,850	
LAND FOR CR-127 PUMP STATION	10,000	
LAND FOR ELEVATED NO. 7	15,000	
LEGAL (EXCLUDING BOND ATTORNEY FEES)	12,000	
RECORDING AND ABSTRACTING	4,000	
INSPECTION	\$348,709	
CONTINGENCIES	<u>\$3,487,085</u>	
TOTAL OTHER COSTS		<u>\$5,065,865</u>
TOTAL YEAR 2025 C.I.P. NO. 9A, 9B, 9C,		
9D, & 9E COSTS		\$22,513,290

C.I.P. PROJECT NO. 10A, 10B, 10C, & 10D



NEW ELEVATED STORAGE AT PLANT NO. 1 AND RELOCATE EXISTING ELEVATED STORAGE TO PROPOSED ELEVATED NO. 8 SITE

THIS PROJECT WOULD CONSIST OF THE FOLLOWING IMPROVEMENTS:

- 10A. 1 MG COMPOSITE ELEVATED STORAGE TANK
- 10B. 0.50 MG GROUND STORAGE TANK; TWO 1,000 GPM PUMPS; BUILDING WITH ELECTRICAL, CONTROLS AND PIPING, DISINFECTION EQUIPMENT AND FENCING.
- 10C. RELOCATE THE EXISTING 0.50 MG MULTI-LEG ELEVATED STORAGE TANK FROM PLANT NO. 1 TO THE
- 10D. PIPING - INSTALL APPROXIMATELY 1,130 L.F. OF 16" PIPELINE, FROM THE EXISTING 16" PIPE LINE ON UNIVERSITY BLVD. TO PROPOSED GROUND STORAGE AT PROPOSED ELEVATED STORAGE NO. 8 SITE.

ESTIMATED
CONSTRUCTION
DATE;
2030-35

TRIGGERS: WHEN GROWTH IN THE PLANT NO. 1 SERVICE AREA EXCEEDS THE 85% OF THE T.C.E.Q. MANDATED STORAGE REQUIREMENTS. AS WELL AS, WHEN DEVELOPMENT BEGINS AT THE HIGHER ELEVATIONS SOUTH OF UNIVERSITY BLVD., BETWEEN COUNTY ROAD 110 AND COUNTY ROAD 118.

BENEFITS: PROVIDE GREATER AMOUNT OF NEEDED ELEVATED STORAGE TO THE PLANT NO. 1 SERVICE AREA. AS WELL AS, ELIMINATE THE NEED FOR PLANT NO. 1 TO SERVE SOUTH OF CHANDLER ROAD.

PRELIMINARY OPINION OF PROBABLE COST:

CONSTRUCTION COST:

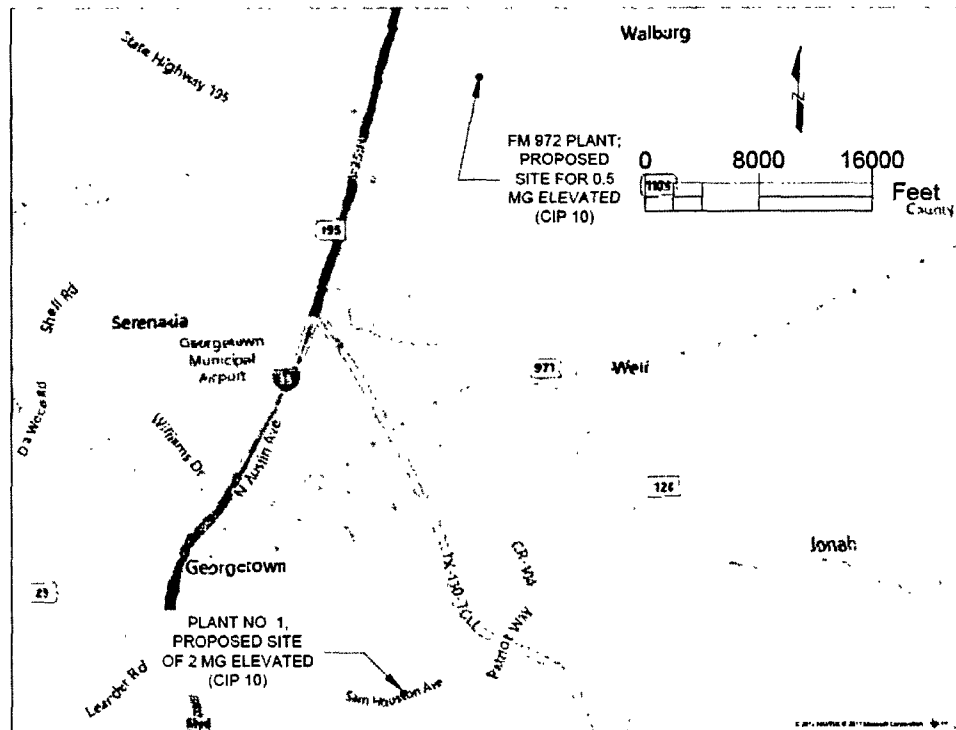
10A. CONSTRUCT 1 MG COMPOSITE ELEV.	\$2,300,000
10B. RELOCATE 0.50 MG MULTI-LEG ELEV.	
STORAGE	\$1,200,000
10C. PLANT WITH 0.50 MG GROUND STORAGE	\$1,800,000
10D. PIPING	<u>\$219,850</u>
TOTAL C.I.P. NO. 10 CONSTRUCTION COST	\$5,519,850

OTHER COST:

ENGINEERING FEES;	
PIPING	\$17,808
CONCRETE TANK	\$40,400
ELEVATED STORAGE	\$245,880
PLANTS	<u>\$126,370</u>
TOTAL ENGINEERING FEES	\$430,458
GEOTECHNICAL INVESTIGATIONS FOR TANKS	\$12,000
PROPERTY AND TOPOGRAPHIC SURVEYS	\$2,000
LAND	\$20,000
LEGAL (EXCLUDING BOND ATTORNEY FEES)	\$4,000
RECORDING AND ABSTRACTING	\$3,000
INSPECTION	\$110,397
CONTINGENCIES	<u>\$1,103,970</u>
TOTAL OTHER COSTS	<u>\$1,685,825</u>
TOTAL YEAR 2030 C.I.P. NO. 10 COST	\$7,205,675



AMENDED C.I.P. PROJECT NO. 10 (9.25.17)



PLANT NO. 1 AND FM 972 PUMP STATION ELEVATED STORAGE IMPROVEMENTS

ESTIMATED
CONSTRUCTION
DATE; 2018

THIS PROJECT WOULD CONSIST OF THE FOLLOWING IMPROVEMENTS:

- 10A. CONSTRUCT A 2 MG COMPOSITE ELEVATED STORAGE TANK AT PLANT NO. 1, INCLUDING REQUIRED PLANT PIPING
- 10B. DISASSEMBLE, RELOCATE, AND RAISE THE EXISTING 0.50 MG MULTI-LEG ELEVATED STORAGE TANK FROM



PLANT NO. 1 TO THE FM 972 PLANT SITE, INCLUDING
REQUIRED PLANT PIPING

TRIGGERS: GROWTH IN THE PLANT NO. 1 SERVICE AREA. WITH THE CURRENT DEVELOPMENTS OF THE KASPER AND SADDLECREEK, JWSUD'S EXISTING 0.5 MG ELEVATED TANK REQUIRES IMPROVEMENTS TO INCREASE THE REFILL RATE OF THE ELEVATED TANK. IN ADDITION, WITH THE DEVELOPMENT OF UNIVERSITY INDUSTRIAL PARK, PLANT NO. 1 ELEVATED STORAGE IMPROVEMENTS ARE REQUIRED TO PROVIDE THEM WITH THEIR REQUESTED FIRE FLOW. I-35 BUSINESS PARK'S RENEWED INTEREST OF MOVING FORWARD WITH THEIR DEVELOPMENT'S PLANS.

BENEFITS: 10A; PROVIDE GREATER AMOUNT OF ELEVATED STORAGE TO THE PLANT NO. 1 SERVICE AREA. EXISTING UNIVERSITY INDUSTRIAL PARK, SADDLECREEK AND KASPER DEVELOPMENTS CAN TO PUT FUNDS TOWARDS NEW ELEVATED STORAGE TANK. THIS AMENDED PLAN WOULD ALSO POTENTIALLY ELIMINATE THE NEED OF THE ORIGINALLY PROPOSED PLANT SITE, PROPOSED GROUND STORAGE TANK, AND REQUIRED PIPING; JUST SOUTH OF UNIVERSITY BLVD.

10B; PROVIDE ANOTHER ELEVATED STORAGE TANK IN THE PLANT NO. 3 AREA SO TO ALLOW THE EXISTING TANK TO BE TAKEN DOWN FOR MAINTENANCE, WHEN REQUIRED. IN ADDITION, THERE IS POTENTIAL FOR SOME REIMBURSEMENT FROM THE I-35 BUSINESS PARK DEVELOPMENT TO PAY FOR A PORTION OF THE RELOCATION OF THE 0.5 MG ELEVATED, IN EXCHANGE FOR THEM NOT HAVING TO CONSTRUCT THEIR CONTRACTED 0.2 MG.

PRELIMINARY OPINION OF PROBABLE COST:

CONSTRUCTION COST:

10A. CONSTRUCT 2 MG COMPOSITE ELEV.	\$2,800,000	
10B. DISASSEMBLE AND RAISE 0.50 MG		
MULTI-LEG ELEV.	\$900,000	
TOTAL C.I.P. NO. 10 CONSTRUCTION COST		\$3,700,000

OTHER COST:

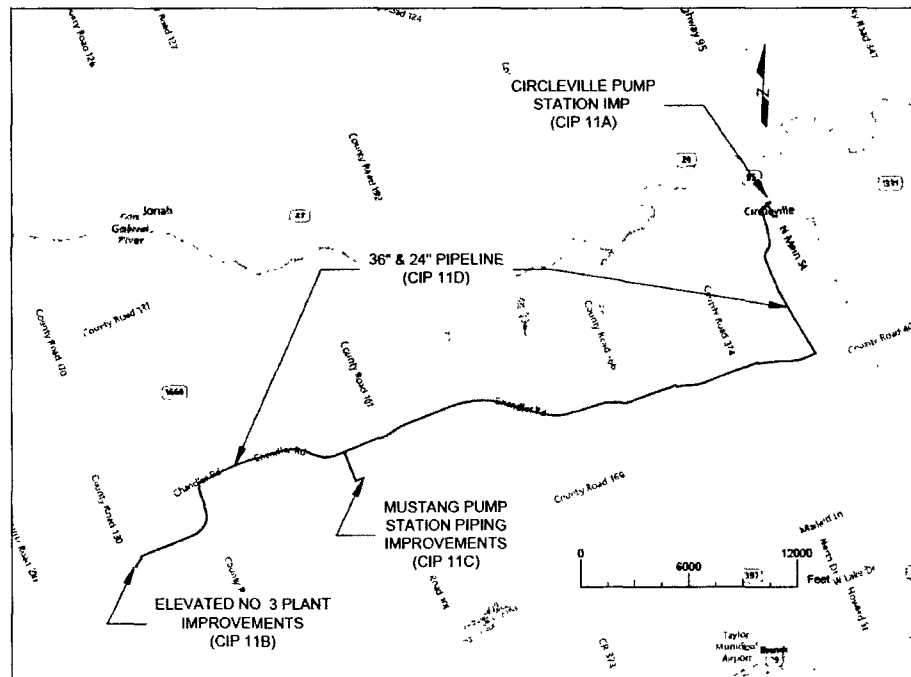
ENGINEERING FEES;	\$246,000
GEOTECHNICAL INVESTIGATIONS FOR TANKS	\$12,000
PROPERTY AND TOPOGRAPHIC SURVEYS	\$2,000

AMENDED C.I.P. PROJECT NO. 10 (9.25.17)

LEGAL (EXCLUDING BOND ATTORNEY FEES)	\$4,000	
INSPECTION	\$83,000	
CONTINGENCIES	<u>\$555,000</u>	
TOTAL OTHER COSTS		<u>\$902,000</u>
TOTAL YEAR 2018 C.I.P. NO. 10 COST		\$4,602,000



C.I.P. PROJECT NO. 11(12.22.17)



CHANDLER RD WATERLINE IMPROVEMENTS; (C.I.P. No. 11A, 11B, 11C, AND 11D)

ESTIMATED
CONSTRUCTION
DATE; 2018,
2019, 2020

THIS PROJECT WOULD CONSIST OF THE FOLLOWING IMPROVEMENTS:

- 11A. CONSTRUCT A 1 MG CONCRETE GROUND STORAGE TANK AT CIRCLEVILLE PUMP STATION, INCLUDING REQUIRED PLANT PIPING, 2 - 3,850 GPM PUMPS, AND INCREASED LINE TO BRA TAKE POINT.
- 11B. CONSTRUCT A 2 MG CONCRETE GROUND STORAGE TANK AT ELEVATED NO. 3 (JWSUD OFFICE), INCLUDING REQUIRED PLANT PIPING, 2 - 2,800 GPM PUMPS.
- 11C. MUSTANG PLANT PIPING TO CONNECT TO EXISTING PLANT PIPING.
- 11D. INSTALLATION OF A 24" WATERLINE FROM CIRCLEVILLE PUMP STATION TO ELEVATED NO. 3

(JWSUD'S OFFICE), ALSO INSTALL A 24" SPUR TO MUSTANG PUMP STATION.

TRIGGERS: GROWTH IN THE PLANT NO. 1, PLANT NO. 8, AND ELEVATED NO. 3 SERVICE AREAS. WITH THE INCREASING DEMAND FOR WATER SERVICE IN THE WESTERN PART OF JONAH WATER'S SYSTEM; JONAH WATER HAS LOOKED AT INSTALLING THESE IMPROVEMENTS AS AN INTERMEDIATE PROJECT TO DELAY CIP NO. 6A, 6B AND 7'S PROJECTS.

BENEFITS: WILL REPLACE THE AGING GROUND STORAGE TANK AT CIRCLEVILLE PUMP STATION; INCREASE REFILL RATES TO MUSTANG PUMP STATION, ELEVATED NO. 3, PLANT NO. 8, AND PLANT NO. 1; WILL INSTALL A 1 MG GST AT ELEVATED NO. 3, TO ALLOW FOR THE EXISTING ELEVATED TO BE TAKEN DOWN FOR SERVICING AT A FUTURE DATE; WILL INSTALL A 24" ALONG CHANDLER RD TO ALLOW FOR GROWTH ALONG THIS PROPOSED ROUTE; WILL PROVIDE JWSUD WITH A SECONDARY REFILL FROM CIRCLEVILLE PUMP STATION.

PRELIMINARY OPINION OF PROBABLE COST:**CONSTRUCTION COST:**

11A. CIRCLEVILLE PUMP STATION PLANT IMP.	\$1,960,000.00
11B. ELEVATED NO. 3 PLANT IMP.	\$2,860,000.00
11C. MUSTANG PUMP STATION PLANT IMP.	\$200,000.00
11D. CHANDLER RD. 24" WATERLINE IMP.	\$6,950,000.00
TOTAL C.I.P. NO. 11 CONSTRUCTION COST	\$11,970,000.00

OTHER COST:**ENGINEERING FEES;**

11A. CIRCLEVILLE PUMP STA. IMP.	\$135,600.00
11B. ELEVATED NO. 3 IMP.	\$246,000.00
11C. MUSTANG PUMP STA. IMP	\$20,600.00
11D. CHANDLER RD WATERLINE IMP.	\$442,000.00

GEOTECHNICAL INVESTIGATIONS FOR TANKS	\$45,000.00
PROPERTY AND TOPOGRAPHIC SURVEYS	\$100,000.00

30' WIDE EASEMENTS	\$1,705,000.00
LEGAL (EXCLUDING BOND ATTORNEY FEES)	\$70,000.00
INSPECTION	\$200,000.00
CONTINGENCIES	<u>\$1,200,000.00</u>

TOTAL OTHER COSTS	<u>\$4,164,200</u>
TOTAL YEAR 2019 C.I.P. NO. 11 COST	\$16,134,200.00