



RICK ELUMBAUGH, MAYOR
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CITY OF BATESVILLE

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January 29, 2015

Ms. Jacqueline Trotta
Enforcement Analyst
Water Division Enforcement Branch
Arkansas Department of Environmental Quality
5301 Northshore Drive
North Little Rock, Arkansas 72118-5317

Re: CAO-LIS-08-083
AFIN 32-00044

Dear Ms. Trotta:

In response to your e-mail dated December 3, 2014 to Mr. Eugene Townsley, Batesville Wastewater Treatment Plant manager, and after discussing the matter with the City's consulting engineer, we submit this progress report on the items listed in the City's Milestone Schedule dated December 12, 2011.

The discussion of our progress is presented with reference to the enumerated items in your December 3, 2014 e-mail to Mr. Townsley.

Significant progress has been made on each Milestone item; the work is being undertaken in a sequence intended to achieve the most timely and significant impact toward compliance with the issues listed in the findings of fact in the CAO as follows:

- noncompliance of the NPDES permit at the wastewater treatment plant
- hydraulically overloaded wastewater treatment plant
- sewer system overflows (SSO's)

MAIN PUMP STATION CONSTRUCTION

Item number five in your December 3, 2014 e-mail sets out Main Pump Station Construction. Construction of the main pump station is embedded into construction contracts related to the construction of new and larger wastewater treatment facilities at the existing plant. Contract Section 1 (CS1) was bid in December 2009. It encompassed the construction of a tunnel and large diameter sewer lines ranging from 36 inches in diameter to 60 inches in diameter from near the existing main pump station to the wastewater treatment plant. A second item of work consisted of building a concrete structure which would become an integral part of the new main pump station at the upgraded wastewater treatment plant. Because of funding constraints it was necessary to divide the construction of the new main pump station into two different contract sections utilizing two different contractors.

Ms. Jacqueline Trotta
January 29, 2015
Page 2

The tunnel construction and the main structure of the new pump station were designated as Contract Section 1 (CS1). A Notice to Proceed was issued for CS1 on February 22, 2010. The contract was to be substantially complete by February 11, 2012 and final completion was to be achieved by April 11, 2012.

The construction of the balance of the wastewater treatment plant facilities was bid in June 2011. A different contractor than that for CS1 was the low bidder and that contractor for Contract Section 2 (CS2) was given a Notice to Proceed on August 1, 2011. Subsequent to the commencement of work several change orders have been issued.

The contractor for CS1 did not meet the schedule for completing construction in a timely fashion and its continued presence at the work site began to interfere with the work to be done by the CS2 contractor. In order to keep the work on schedule, the City terminated the contract of the CS1 contractor in September 2012. The final construction cost of the CS1 contract was \$5,472,750. A copy of the final payment document is enclosed.

The City negotiated a change order with the contractor for CS2 to take over the remaining work that needed to be completed under CS1. Upon successful negotiation of the change order, the contractor for CS2 had full control of all construction activities required at the existing wastewater treatment plant and was responsible for the completion of the main pump station. In the summer of 2014, it came to the City's attention that some of the contractor's work was not acceptable and the City issued the CS2 contractor a Notice of Termination on July 9, 2014. Pursuant to the terms of the contract between the parties, counsel for the CS2 contractor demanded the right to be permitted to return to the work site to cure the alleged defaults. The contractor returned to the jobsite on July 21, 2014 and undertook the work. As late as November 2014, the CS2 contractor assured the City that the work would be completed by December 24, 2014.

We are providing this information about the City's relationship with its contractors to show that the City tracks the work of the contractors and has, within the limits of the ANRC-approved contracts, kept the contractors "feet to the fire" in order to stay on time and within budget.

The Contract Section 2 work is divided into two distinct facilities, Schedule A and Schedule B. *Schedule A* consist of the remaining items to complete construction of the new main pump station and related facilities at the front end of the wastewater treatment plant. *Schedule B* consists of totally new wastewater treatment facilities approximately 0.6 miles to the east, on the other side of the City's existing wastewater treatment lagoons. These Schedule B facilities must be completed prior to placing the Schedule A facilities, including the new main pump station, into full-service. The total cost of CS2 is approximately \$28.5 million. A copy of the latest partial payment estimate and graphs showing the CS2 contractor's progress is enclosed.

MAINLINE CONSTRUCTION

Item number four in your December 3, 2014 e-mail sets out mainline construction. The mainline construction for the City of Batesville rehabilitation project related to this consent administrative order consists of three distinct construction projects. The first project consisted of the Contract Section 1 work which included the construction of the tunnel and 36 inch through 60 inch mainline sewer construction. This work was completed in September 2012; however the mainline sewer and new main pump station cannot be placed into service until the construction is completed for both Schedules A & B. The mainline construction in CS1 completed the major mainline construction required to transport wastewater flows around the existing main pump station which is not able to pump all flows coming to the wastewater treatment plant.

A second mainline construction was required in Basin 5, identified in the comprehensive sewer system survey. Several of the mainlines in this basin required extensive rehabilitation and it was the City's considered judgment that it would be prudent to replace the lines and up-size them to carry projected hydraulic loads rather than try to patch them. Bids were taken for these facilities in October 2012 and the work was completed in September 2014 at a construction cost of \$1,442,000. This project also consisted of the reconstruction of an inverted siphon and reconstruction of severely damaged sewer lines in Basin 14 in the northern part of the City which were originally scheduled for rehabilitation. A copy of the plans of record and final payment estimate for this completed project are submitted as an attachment to this letter report.

The remaining mainline construction will be performed pursuant to Contract Section 3 (CS3). Contract Sections 1 and 2 have been financed through the revolving loan fund program of Arkansas Natural Resources Commission (ANRC). Contract Section 3 is also scheduled to be funded with a continuation of the revolving loan through ANRC. The plans for CS3 were submitted to regulatory agencies for review on March 14, 2014 and were subsequently approved by the Arkansas Department of Health on May 27, 2014 and by ANRC on June 3, 2014. Subsequent to completion of those plans, a major industry along the route of the mainline bought property for a major expansion that conflicts with existing plans. Route changes and revisions of the plans are underway. The City is now in the process of procuring rights-of-way, utility crossing permits and environmental regulatory permits for the project. The rights-of-way and permits for every component of the Contract Section 3 construction must be procured and approved before ANRC will allow the City to solicit bids for construction of the project.

Because of the delay regarding receiving the necessary rights-of-way and permits, Contract Section 2 may be completed before the Contract Section 3 work is at a point where wastewater from the Batesville wastewater collection system could be transported through the new lines built under Contract Section 1 and Contract Section 3 to the new facilities and main pump station at the wastewater treatment plant. However, placing CS1 lines in service after CS2 work is completed would make construction of the upstream facilities in CS3 very difficult and would cause delay of the CS3 work. The delay of the CS3 construction would require taking the water treatment plant out of service because the backwash facilities would have no place to discharge. Taking the plant out of service is unacceptable; therefore, the City decided to construct a portion of the CS3 project which is approved and totally contained on city-owned property, in order to facilitate placing the CS1 pipelines into service upon completion of Contract Section 2. The portion of Contract Section 3 that was constructed was called CS3T and a bid was negotiated on October 23, 2014. The Notice to Proceed for CS3 was issued on November 10, 2014 and construction was substantially complete on December 30, 2014. The City constructed this work outside revolving loan fund program and the cost to the City was approximately \$300,000. When the Contract Section 2 facilities

are completed, the contractor for CS3T will divert the flow from the existing sewer lines that flow to the existing main pump station to the new sewer lines constructed under Contract Section 1 and then to the new facilities of Schedule A of Contract Section 2.

The completion of Contract Section 2 and the diversion of the existing flows to the new Contract Section 1 lines will remove the bottleneck (the existing old main pump station) that impedes the transport of high flows to the wastewater treatment facility. The completion of construction of the Contract Section 2 facilities and the CS3T facilities should mitigate many overflows occurring within the wastewater collection system. The future construction of the remaining Contract Section 3 mainline construction should mitigate any remaining overflows that could occur within the context of the design storm for the facilities. The current opinion of probable construction cost for the CS3 main lines is approximately \$8,000,000.

SEWER SYSTEM REHABILITATION BY CONTRACT

Item 1 of your December 3, 2014 e-mail referred to sewer system rehabilitation by contract. The City has completed a set of plans for sewer system rehabilitation. After the completion of the sewer system modeling and the subsequent completion of the Contract Section 3 plans and the Basin 5 interceptor sewer construction, it became apparent that a substantial amount of sewer system rehabilitation would be unnecessary, because most of the mainline construction eliminated many sewer line and manhole rehabilitation requirements. A set of 11 x 17" drawings are included which shows the extent of Contract Section 3 and Basin 5 mainline construction. On these plan sheets we have noted the sewer system rehabilitation that is no longer necessary because of the construction or planned construction of these mainlines through contract. In addition the City has chosen to perform other sewer line replacements which will also eliminate previously proposed sewer system rehabilitation. The City proposes to delay sewer system rehabilitation by contract until the bids are taken for completing Contract Section 3 mainline construction. This will establish the remaining funds available from the ANRC revolving loan, and that will determine the extent of the sewer system rehabilitation that will be achieved by contract.

REHABILITATION OF PRIVATE SERVICE LINES

Item number three of your December 3, 2014 e-mail identifies Rehabilitation of Private Service Lines. Table 1 is attached which sets out the Status of Private Service Lateral Rehabilitation. The City of Batesville has completed rehabilitation codes number 3340 and 3330. The City is in the process of completing codes 3350, 3390 and 3360. The City is also in the process of preparing notices to property owners for the completion of rehabilitation codes 3360 and 3400.

SEWER SYSTEM REHABILITATION BY CITY FORCES

Item number two of your December 3, 2014 e-mail lists Sewer System Rehabilitation by City Forces. The City of Batesville Water Utility is in the process of completing rehabilitation for various items set out in the attached Table 2 showing Methods, Quantities and Summary of Work Status. The City of Batesville has completed rehabilitation codes 1001, 1002, 1010, 5010, 5000, and 4360. A portion of rehabilitation code 4430 is in progress and completed. The 11 x 17" drawings referenced for Rehabilitation Code 4430 identify the mainline construction that has been completed to date. The work to be completed by the City is set out for basins number 11 and 7, in that order. A summary of sewer system rehabilitation completed for calendar years 2012 through 2014 by City Forces is shown in the attached Table 3. The City is in the process of reevaluating resources in order to complete these rehab code 4430 work items and other rehabilitation codes not completed as shown in Table 2 by October 2018.

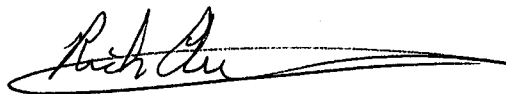
Ms. Jacqueline Trotta

Based on the current status of each of the items enumerated above, the City of Batesville requests that the Milestone Schedule be amended as follows:

ACTION ITEM	ANTICIPATED MILESTONE DATE
Sewer Modeling and Plans Production	December 31, 2012 (Completed)
Mainline Construction	October 31, 2017
Main Pump Station Construction	October 31, 2015
Sewer System Rehabilitation Plans Production	May 31, 2012 (Completed)
Sewer System Rehabilitation by Contract	October 31, 2017
Sewer System Rehabilitation by City Forces	June 30, 2018
Rehabilitation of Private Service Lines	June 30, 2016
Sewer System Effectiveness Evaluation	October 31, 2018
Remedial Action/Additional Facilities to Contain Peak Flows	October 31, 2018

Although the City needs extra time for the Milestone items, none of the extensions required exceed the October 2018 date addressed in the ADEQ's letter dated March 24, 2011 from Renee Meints. Furthermore, we believe that this report and the supporting documentation will fully establish the need for the extra time and satisfy you that the City has taken the steps within its contractual authority to keep this project moving forward. We realize that the supporting documentation is voluminous, and will require some time for you to review. We would request that in a week or so you call Damon Johnson, City Engineer, at (870)-698-2415, to establish a date after February 13, 2015 on which the City and its consulting engineer can meet with you to more fully discuss each of these items.

Sincerely,



Rick Elumbaugh
Mayor

cc: City Council Members
Mr. Damon Johnson, P.E., Batesville City Engineer
Mike Core, P.E., ANRC
James C. Ulmer, P.E., MWY

JANUARY 2015 ANNUAL CAO REPORT

CAO-LIS-08-083
AFIN 32-00044

BATESVILLE, ARKANSAS

LIST OF ATTACHMENTS

- Contract Section 1 – Final Payment
- Contract Section 2 – A - Latest Partial Pay Estimate
B - Graphs
- B5I – A - Plans of Records
B - Final Payment
- 11 x 17 Drawings – CS3, CS3T, B5I & City Line Work Eliminating Rehab
- Table 1 – Status Private Service Lateral
- Table 2 – Methods, Quantities & Summary of Work
- Table 3 – Sewer Rehabilitation Summary for 2012,2013 & 2014

PARTIAL PAYMENT ESTIMATE
WASTEWATER TREATMENT FACILITY MODIFICATIONS AND IMPROVEMENTS
CONTRACT SECTION I: GRAVITY SEWERS, TUNNEL AND LIFT STATION
BATESVILLE, ARKANSAS

From: 28-Jul-12 To: 07-Sep-12 Estimate No. 29 Final

Plans No. BA-138
 RLF Project No. WRD-003-620
 Contract Amount: \$5,472,750.00
 Contract Dated: 08-Feb-10

Owner: City of Batesville, Arkansas
 500 East Main Street
 Batesville, AR 72503

Notice to Proceed Date: 22-Feb-10
 Substantial Completion Date: 12-Feb-12
 Contract Completion Date: 12-Apr-12

Contractor: Oscar Ronda Contracting, Inc.
 606 Henrietta Creek Road
 Roanoke, Texas 76262
 Arkansas License No. 0138780209

Item No.	Description	Unit Price	Completed Prev. Est.	Completed This Est.	Total Completed	Amount Due
1.	Lump Sum. Approximately 600 linear feet of 36-inch, 610 linear feet of 48-inch, and 86 linear feet of 80-inch gravity sewers with manholes and appurtenances, and other miscellaneous items of work as set out in the Contract Documents for a complete installation.	400,000.00	400,000.00	0.00	400,000.00	0.00
2.	Lump Sum. A tunnel with 60-inch carrier pipe approximately 1,700 linear feet long, and other miscellaneous items of work as set out in the Contract Documents for a complete installation.	4,338,000.00	4,325,887.00	10,413.00	4,336,000.00	10,413.00
3.	Lump Sum. A screw pump lift station structure, and other miscellaneous items of work as set out in the Contract Documents for a complete installation.	800,000.00	752,500.00	47,500.00	800,000.00	47,500.00
4.	Lump Sum. Trench or Safety Excavation System as required by Act 281 of the 1993 Arkansas General Assembly.	50,000.00	50,000.00	0.00	50,000.00	0.00
5.	Lump Sum. Sediment Control, Erosion Control and Site Restoration, and Compliance with NPDES Stormwater Permit.	20,000.00	19,900.00	400.00	20,000.00	400.00
* Change Orders No. 2 & 3		(133,250.00)	0.00	(133,250.00)	(133,250.00)	(133,250.00)
SUB-TOTAL CONSTRUCTION						(74,937.00)

CHANGE ORDERS

* Change Order No. 2, dated February 9, 2012; Deduct \$8,958.21 from the Contract.
 ** Change Order No. 3, Final Reconciliation Dated May 9, 2013; Deduct \$124,251.79

Cost of Work to Date	5,472,750.00
Amount Retained	0.00
Difference	5,472,750.00
Plus Materials Stored	0.00
Subtotal	5,472,750.00
Less Previous Payments	5,267,387.00
Balance Due This Estimate	205,363.00

Percent of Contract Completed → 100.00%
 Percent of Contract Time Used → 100.00%

Requested: Oscar Ronda Contracting, Inc.

Certification by Prime Contractor of Labor Standards Compliance

I hereby certify that all labor standards, contract requirements, and all ARRA and RLF Program Requirements have been complied with by Oscar Ronda Contracting, Inc. as prime contractor and by each subcontractor employing mechanics or laborers at the site of the work.

By: Daniel Yancey PM
 Signature and Title
 Date: 4-30-13

Recommended: McGoodwin, Williams & Yates, Inc.

By: James C. Ulmer, PE, CSD, McGoodwin, Williams & Yates, Inc.

Date: 9 May 13

Approved: City of Batesville, Arkansas

By: Rick Elumbaugh, Mayor, City of Batesville, Arkansas

Date: 5/9/13

APPROVED FOR PAYMENT
 ARKANSAS NATURAL
 RESOURCES COMMISSION

DATE 5/10/13
 BY [Signature]

PARTIAL PAYMENT ESTIMATE
WASTEWATER TREATMENT FACILITY MODIFICATIONS AND IMPROVEMENTS
CONTRACT SECTION II, SCHEDULE A: IMPROVEMENTS TO EXISTING FACILITIES
CONTRACT SECTION II, SCHEDULE B: MODIFICATIONS TO EXISTING TREATMENT PROCESS
CITY OF BATESVILLE, ARKANSAS

From: 29-Nov-2014 To: 26-Dec-2014 Estimate No. 41

Plans No. BA-138CS II
 RLF Project No. WRD-003-620

Owner: City of Batesville, Arkansas
 500 East Main Street
 Batesville, AR 72503

Original Contract Amount: \$27,331,750.00
 Adjusted Contract Amount: \$28,489,488.28
 Contract Dated: 26-Jul-2011

Contractor: BRB Contractors, Inc.
 3805 N.W. 25th. Street
 Topeka, KS 66618
 Arkansas License No. 0039850711

Notice to Proceed Date: 1-Aug-2011
 Adjusted Substantial Completion Date: 26-Jun-2014
 Adjusted Contract Completion Date: 25-Aug-2014

Item No.	Description	Unit or Lump Sum Price	Completed Prev. Est.	Completed This Est.	Total Completed
A1. Lump Sum	Improvements to Existing Facilities, and other items as detailed and specified for a complete installation.	\$4,365,000.00	\$3,074,603.03	\$47,506.47	\$3,122,109.50
A2. Lump Sum	Trench or Excavation Safety System as required by Act 291 of the 1993 Arkansas General Assembly	\$1,000.00	\$950.00	\$50.00	\$1,000.00
A3. Lump Sum	Sediment Control, Erosion Control and Site Restoration, and Compliance with NPDES Stormwater Permit	\$43,000.00	\$34,840.00	\$0.00	\$34,840.00
Sum of Schedule A Change Orders		\$674,116.64	\$514,256.94	\$0.00	\$514,256.94
SUB-TOTAL, SCHEDULE A (ARRA FUND PARTICIPATION)		\$5,083,116.64	\$3,624,649.97	\$47,556.47	\$3,672,206.44
B1. Lump Sum	Modifications to Existing Treatment Process, and other items as detailed and specified for a complete installation.	\$22,500,000.00	\$21,025,729.60	\$86,691.94	\$21,112,421.54
B2. Lump Sum	Trench and Excavation Safety System as required by Act 291 of the 1993 Arkansas General Assembly	\$14,000.00	\$14,000.00	\$0.00	\$14,000.00
B3. Lump Sum	Sediment Control, Erosion Control and Site Restoration, and Compliance with NPDES Stormwater Permit	\$90,000.00	\$78,600.00	\$0.00	\$78,600.00
B4. 25,500 Cubic Yards	Undercut and Backfill (Area A), complete in place. (\$12.50/c.y.)	\$318,750.00	\$25,925.00	\$0.00	\$25,925.00
Sum of Schedule B Change Orders		\$483,621.64	\$327,094.47	\$70,034.75	\$397,129.22
SUB-TOTAL, SCHEDULE B (ANRC FUND PARTICIPATION)		\$23,406,371.64	\$21,471,349.07	\$156,726.69	\$21,628,075.76
SUB-TOTAL, CONSTRUCTION (SCHEDULES A & B)		\$28,489,488.28	\$25,095,999.04	\$204,283.16	\$25,300,282.20

CHANGES TO CONTRACT, SCHEDULE A:				SCHEDULE A	SCHEDULE B	SCHEDULES A & B			
CHANGE ORDER NO.	DATE	PRICE	DAYS						
3	10-May-2012	\$12,265.51	6	Cost of Work to Date	\$3,672,206.44	\$21,628,075.76			
4	24-Sep-2012	\$212,313.06	0						
5	8-Nov-2012	\$11,168.29	7						
6	14-Feb-2013	\$389,597.24	60						
7	26-Jun-2013	\$6,024.31	0						
8	23-Jan-2014	\$1,605.56	0						
9	11-Dec-2014	\$41,142.67	9						
TOTAL SCHEDULE A			82						
CHANGES TO CONTRACT, SCHEDULE B:									
1	13-Oct-2011	\$9,510.82	0	Plus Materials Stored	\$292,712.36	\$532,282.41			
2	9-Feb-2012	\$33,998.33	7						
3	10-May-2012	(\$3,048.28)	2						
5	8-Nov-2012	\$20,775.32	2						
7	26-Jun-2013	\$54,059.94	4						
8	23-Jan-2014	\$317,467.65	30						
9	11-Dec-2014	\$50,857.86	3						
TOTAL SCHEDULE B			48						
							Subtotal	\$3,781,308.48	\$21,078,954.38
				Less Previous Payments	\$3,756,435.48	\$20,985,726.83			
				Balance Due This Est.	\$24,873.00	\$93,227.55			
						\$118,100.55			

Percent of Contract Completed → 88.81%
 Percent of Contract Time Used → 117.26%

Recommended: McGoodwin, Williams & Yates, Inc.

Requested: BRB Contractors, Inc.

By: James C. Ulmer, PE, COO, McGoodwin, Williams & Yates, Inc.

Certification by Prime Contractor of Labor Standards Compliance

Date: 8 Jan 15

I hereby certify that all labor standards, contract requirements, and all ARRA and RLF Program Requirements have been complied with by BRB Contractors, Inc. as prime contractor and by each subcontractor employing mechanics or laborers at the site of the work.

Approved: City of Batesville, Arkansas

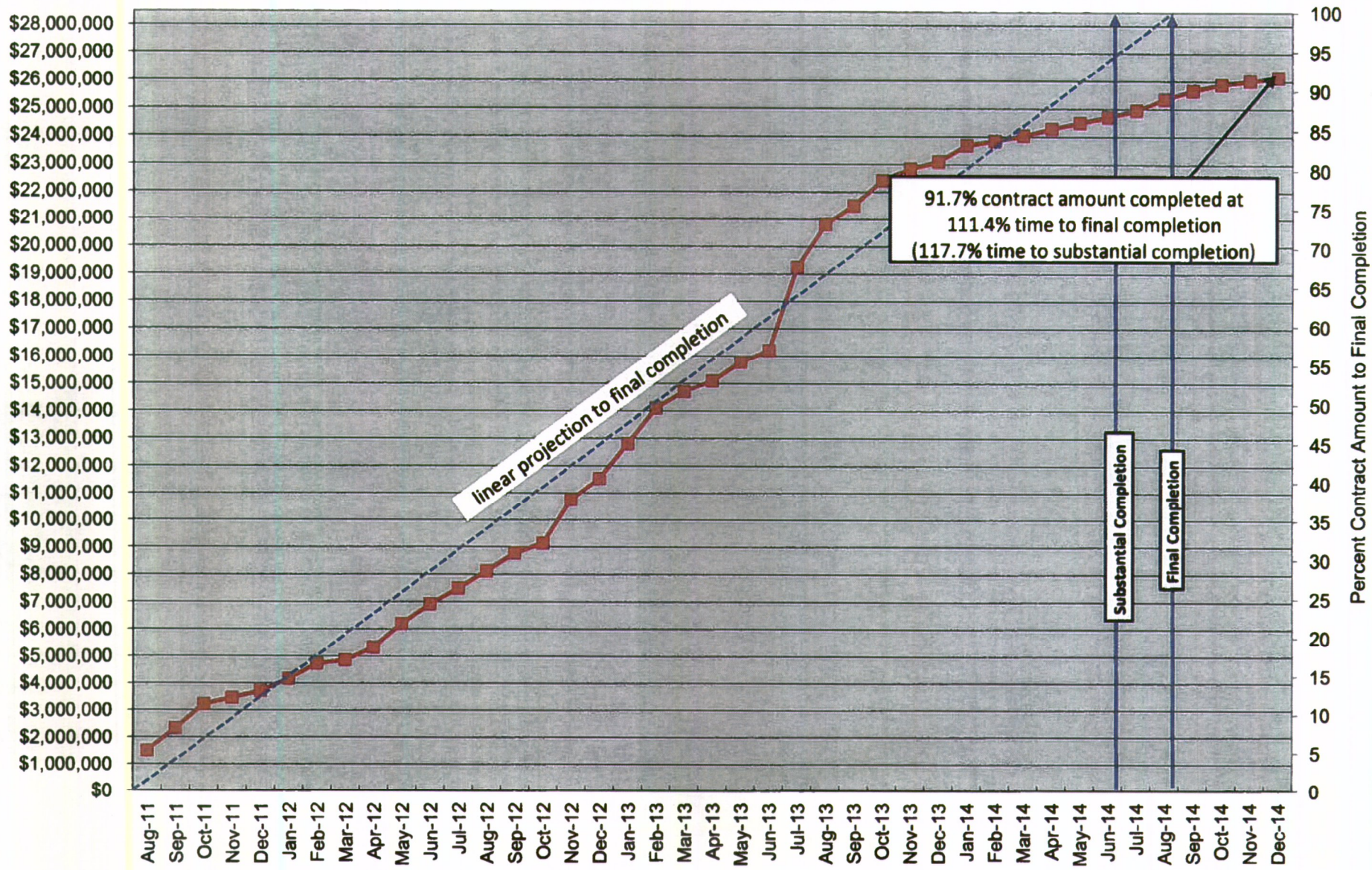
By: [Signature]
 Signature and Title
 Date: 1/8/15

APPROVED
 ARKANSAS NATURAL RESOURCE COMMISSION
 DATE: 1/2/15
 BY: [Signature]

By: [Signature]
 Date: 1/8/15

BA138CS2
Total Work plus Value of Materials Stored

Total Contract Amount = \$28,489,488.28



91.7% contract amount completed at
111.4% time to final completion
(117.7% time to substantial completion)

linear projection to final completion

Substantial Completion

Final Completion

PARTIAL PAYMENT ESTIMATE
FOR
SANITARY SEWER REHABILITATION
BASIN 5 INTERCEPTOR AND POLK BAYOU DOUBLE SIPHON
FOR THE CITY OF BATESVILLE, ARKANSAS

From: 01-Oct-14

To: 31-Oct-14

Estimate No.22 FINAL
 Revised 23-Dec-2014

Plans No. BA-138851

Agreement Amount: \$ 1,441,722.95 ****
 Contract Dated: December 13, 2012

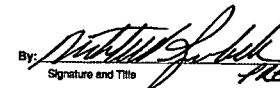
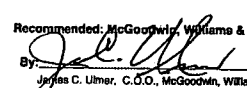
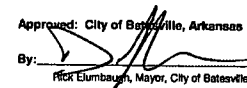
Owner: City of Batesville, Arkansas
 500 E. Main Street
 Batesville, Arkansas 72501

Notice to Proceed Date: January 2, 2013
 Substantial Completion Date: September 9, 2013
 Final Completion Date: October 9, 2013

Contractor: Spurlock, Inc.
 P.O. Box 9171
 Searcy, Arkansas 72145-9171
 Arkansas Lic. No. 41012

Item No.	Description	Unit	Completed		Total	Amount
			Previous Est.	This Est.		
1	1,368 L.F., 24-inch SDR 26 PVC Gravity Sewer Pipe, complete in place	79.00	1,360	0.00	1,360.00	107,440.00
2	178 L.F., 24-inch CL 250 DIP Restrained Joint Sewer Pipe, complete in place	211.00	179.00	0.00	179.00	37,769.00
3	562 L.F., 18-inch SDR 26 PVC Gravity Sewer Pipe, complete in place	57.00	157	0.00	157.00	8,949.00
4	2,578 L.F., Remove, Dispose, & Replace Existing Pipe with 18-inch PVC	81.00	2,463.6	227.39	2,691.0	217,971.00
5	488 L.F., 18-inch CL 250 DIP Restrained Joint Sewer Pipe, complete in place	183.00	136.00	0.00	136.00	24,888.00
**6	Lump Sum, Dbl. Siphon, Inlet Box, manholes, gravity sewers, complete in place	106,780.00	101.07%	0.00%	101.07%	107,919.00
7	1,700 L.F., Extra Depth Trench, 6'-8" in Depth, complete in place	8.00	1,750.5	0.00	1,750.5	14,004.00
8	500 L.F., Extra Depth Trench, 8'-10" in Depth, complete in place	12.00	460	0.00	460.00	5,520.00
9	200 L.F., Extra Depth Trench, 10'-12" in Depth, complete in place	18.00	152	0.00	152.00	2,736.00
10	100 L.F., Extra Depth Trench, 12'-14" in Depth, complete in place	22.00	98	0.00	98.00	2,156.00
11	6 Ea. 5' Dia. CIP Manhole, 0'-6" depth with stubout and sewer connection	3,500.00	9	0.00	9.00	31,500.00
12	20 Ea. 4' Dia. CIP Manhole, 0'-6" depth with stubout and sewer connection	2,400.00	17	0.00	17.00	40,800.00
13	20 V.F. 5' Dia. Manhole Barrel Extension, complete in place	265.00	12.50	0.00	12.50	3,312.50
14	30 V.F. 4' Dia. Manhole Barrel Extension, complete in place	210.00	17.95	0.00	17.95	3,769.50
15	15 Ea. Watertight Manhole Ring and Lid, complete in place	715.00	20	0.00	20	14,300.00
16	3,500 S.F., Protective Coating for Manholes, complete in place	25.00	1,816	0.00	1,816	45,400.00
17	2,800 L.F., Testing Gravity Sewers with Live Flow, including manholes	5.00	2,800.3	0.00	2,800.3	14,001.50
18	17 Ea. Remove and Dispose existing manholes, complete in place	500.00	17	0.00	17	8,500.00
19	6 Ea. 6, 8, or 10-inch Manhole Drop Assembly, complete in place	2,000.00	8	0.00	8	16,000.00
20	200 C.Y., Rock Excavation, complete in place	93.75	259.23	0.00	259.23	24,302.81
21	5 Ea. 24-inch X 4-inch Sewer Service Wyes including plug, complete	600.00	2	0.00	2	1,200.00
22	20 Ea. 18" X 4" Sewer Service Wyes, 4" service line, and connection	1,000.00	7	0.00	7	7,000.00
23	6 Ea. Street Repair, including full depth base and street repair	3,000.00	6.00	0.00	6.00	18,000.00
24	Lump Sum, Construct 4 Concrete Piers (Sheet C6), complete in place	43,500.00	100.00%	0.00%	100.00%	43,500.00
25	100 C.Y., Class B Concrete Pipe Support & Cover, complete in place	350.00	100	0.00	100	35,000.00
26	200 TN, Stone Riprap, complete in place	40.00		0.00		0.00
27	Lump Sum, Erosion Control, complete in place	69,000.00	95.00%	0.00%	95.00%	65,546.60
28	Lump Sum, Highway Crossing and Water Line, Inc. casing, valves, & fittings	36,580.00	100.00%	0.00%	100.00%	36,580.00
29	Lump Sum, Trench and Excavation Safety System complete	200.00	100.00%	0.00%	100.00%	200.00
CO1	Lump Sum, Change Order No. 1 complete in place	8,246.00	101.46%	0.00%	101.46%	8,366.00
CO2	Lump Sum, Change Order No. 2 complete in place	473,900.00	100.00%	0.00%	100.00%	473,900.00
***32	1 Ea. 6' Dia. CIP Manhole, 0'-6" depth with stubout and sewer connection	5,500.00	1	0.00	1	5,500.00
***33	4.3 V.F. 6' Dia. Manhole Barrel Extension, complete in place	350.00	4.3	0.00	4.3	1,505.00
****34	Lump Sum 18 Ea. Manhole Rings and Lids	\$ 3,725.19	0	1.00	1	3,725.19
****35	Lump Sum 150 LF of 18 5/8 Steel Casing	\$ 6,990.00	0	1.00	1	6,990.00
****36	Lump Sum 320 LF of 8" and 10" C900 PVC Pipe	\$ 3,471.85	0	1.00	1	3,471.85
SUB-TOTAL CONSTRUCTION						1,441,722.95

BA-138851 Est #22ev2 Final - Rev 4-Final.xls		Cost of Work to Date	1,441,722.95
* Change Order No. 1: Adds	\$221,366.00, Plus 37 Days to the Contract	Amount Retained	0.00
** Change Order No. 2: Deducts	\$(56,024.00), and 0 Days to the Contract	Difference	1,441,722.95
*** Change Order No. 3: Adds	\$5,850.00, and 3 Days to the Contract	Materials on Hand	0.00
**** Final Reconciliation Change Order	\$(129,454.05)	Subtotal	1,441,722.95
Liquidated Damages	342 days @ \$500.00 per Day, Less \$30,000.00 credit Granted by City.	Less LD's	141,000.00
Note: Liquidated Damages are set out at \$500.00 per day, Beginning October 10, 2013 through September 26, 2014		Less Previous Payments	1,369,176.81
		Balance Due This Estimate	(68,453.86)

Percent of Contract Completed	100.00%
Percent of Contract Time Used	266.80%
Requested: Spurlock, Inc.	
Labor Standards Compliance	
I hereby certify that all of the contract requirements as specified under the labor standards have been complied with by Spurlock, Inc. as principal contractor and by each subcontractor employing mechanics or laborers at the site of the work.	
By: 	Recommended: 
Signature and Title	James C. Ulmer, C.O.O., McGovern, Williams, & Yates, Inc.
Date: 12-30-14	Date: 23 Dec 14
	Approved: City of Batesville, Arkansas
	By: 
	Rick Elumbaugh, Mayor, City of Batesville
	Date:

PLANS FOR
SANITARY SEWER REHABILITATION

**BASIN 5 INTERCEPTOR AND
POLK BAYOU DOUBLE SIPHON**

FOR THE CITY OF
BATESVILLE, ARKANSAS

**MWY PROJECT NO. BA-138B5I
AUGUST 2012**

PLANS OF RECORD
DATE: 1/22/15

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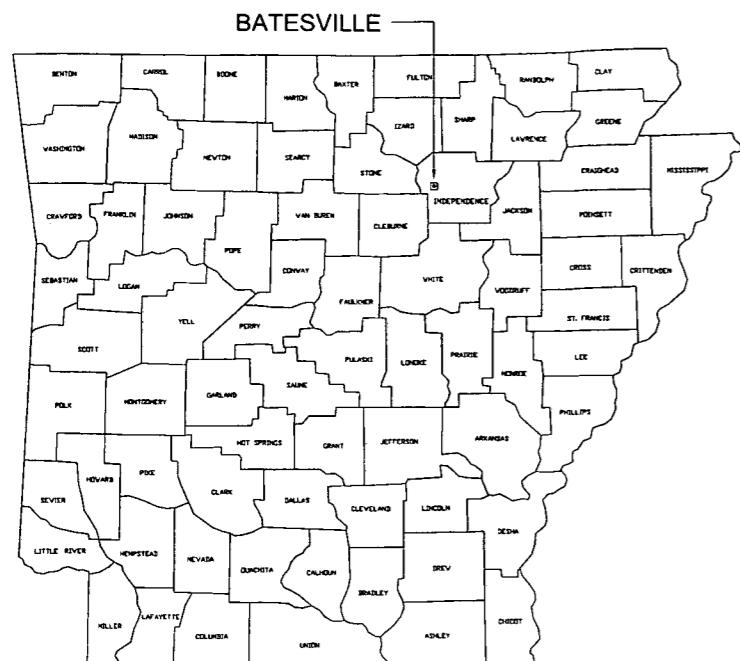
JAMES C. ULMER
ARKANSAS REGISTERED PROFESSIONAL ENGINEER NO. 4691



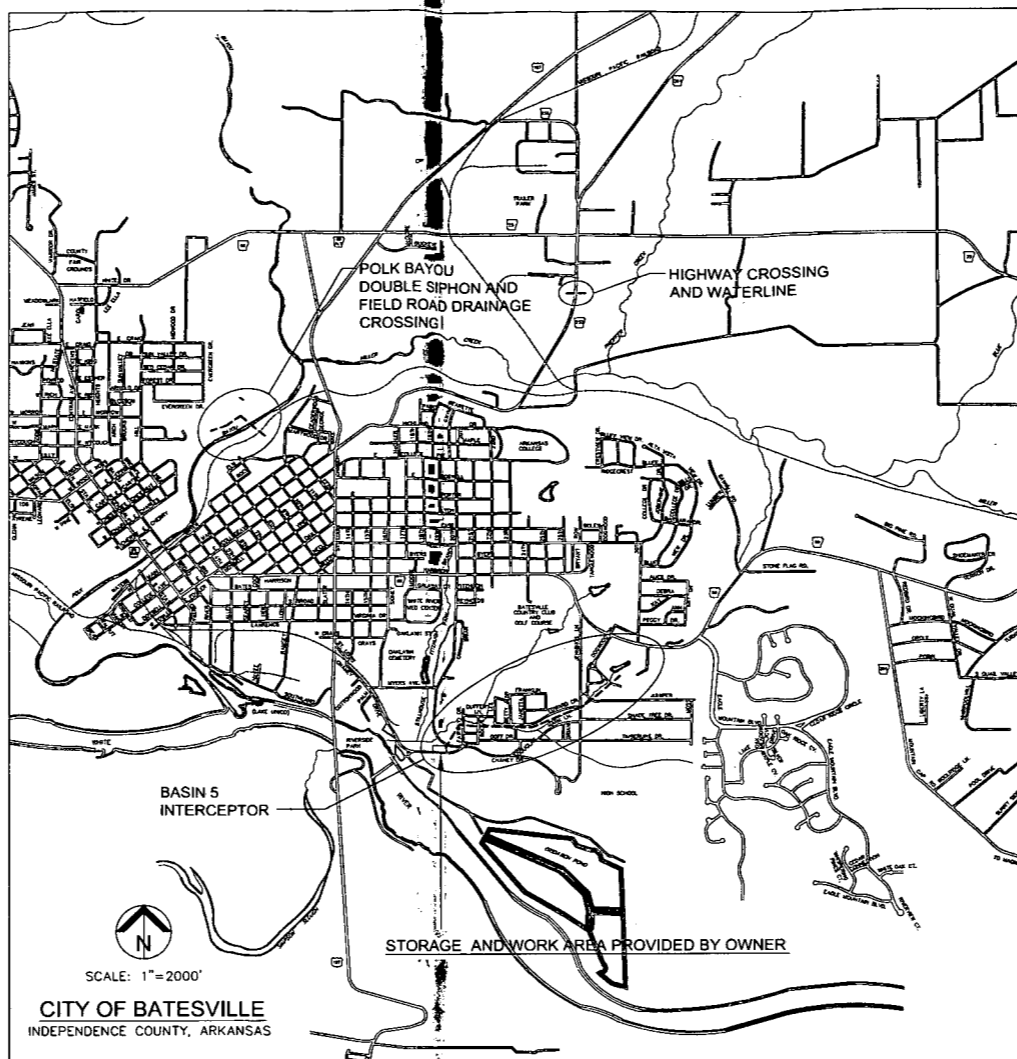
McGoodwin Williams & Yates
Engineering Confidence

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JEFF L. RICHARDS
ARKANSAS REGISTERED PROFESSIONAL ENGINEER NO. 6185



LOCATION MAP



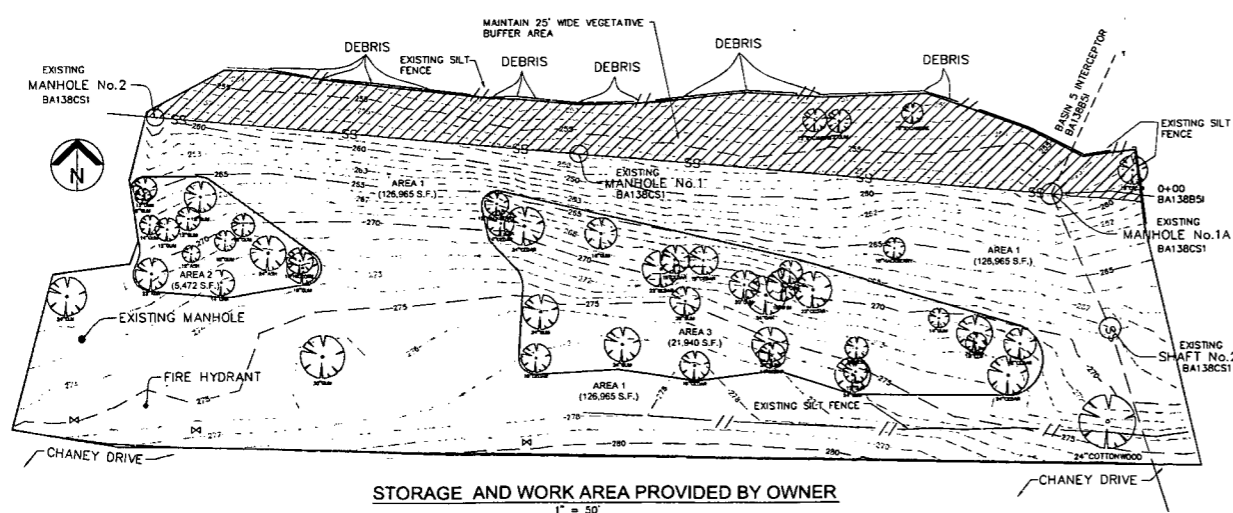
CITY OF BATESVILLE
INDEPENDENCE COUNTY, ARKANSAS

SHEET INDEX

SHEET NO.	DESCRIPTION
G1	TITLE SHEET
G2	SHEET INDEX AND VICINITY MAP
PLAN AND PROFILE	
C1	BASIN 5 INTERCEPTOR STA. 0+00 TO 9+00
C2	BASIN 5 INTERCEPTOR STA. 9+00 TO 18+00
C3	BASIN 5 INTERCEPTOR STA. 18+00 TO 27+00
C4	BASIN 5 INTERCEPTOR STA. 27+00 TO 36+00
C5	BASIN 5 INTERCEPTOR STA. 36+00 TO 44+24
C6	POLK BAYOU SEWER LINE STA. 0+00 TO 9+00
C7	POLK BAYOU SEWER LINE - PLAN STA. 9+00 TO 15+77
C7A	POLK BAYOU SEWER LINE - PROFILE STA. 9+00 TO 15+77
C8	HIGHWAY CROSSING - HWY 233
DETAILS	
D1	SANITARY SEWER DETAILS
D2	SANITARY SEWER DETAILS

LEGEND

EXISTING FEATURES	
--- 2' ---	1' CONTOURS
~~~~~	EDGE OF TREE LINE
—○—	CHAINLINK FENCE
—□—	BOARD FENCE
—X—	BARBED WIRE FENCE
—W—	WATER LINE
—SS—	SANITARY SEWER LINE
—OE—	OVERHEAD ELECTRIC
—UE—	UNDERGROUND ELECTRIC
—UT—	UNDERGROUND TELEPHONE
—GAS—	GAS LINE
—TOP—	TOP OF BANK
—TOE—	TOE OF SLOPE
⊕	POWER POLE
○	MANHOLE
⊙	SHRUB
⊕	TREE



STORAGE AND WORK AREA PROVIDED BY OWNER



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PLANS OF RECORD  
DATE: 1/22/15

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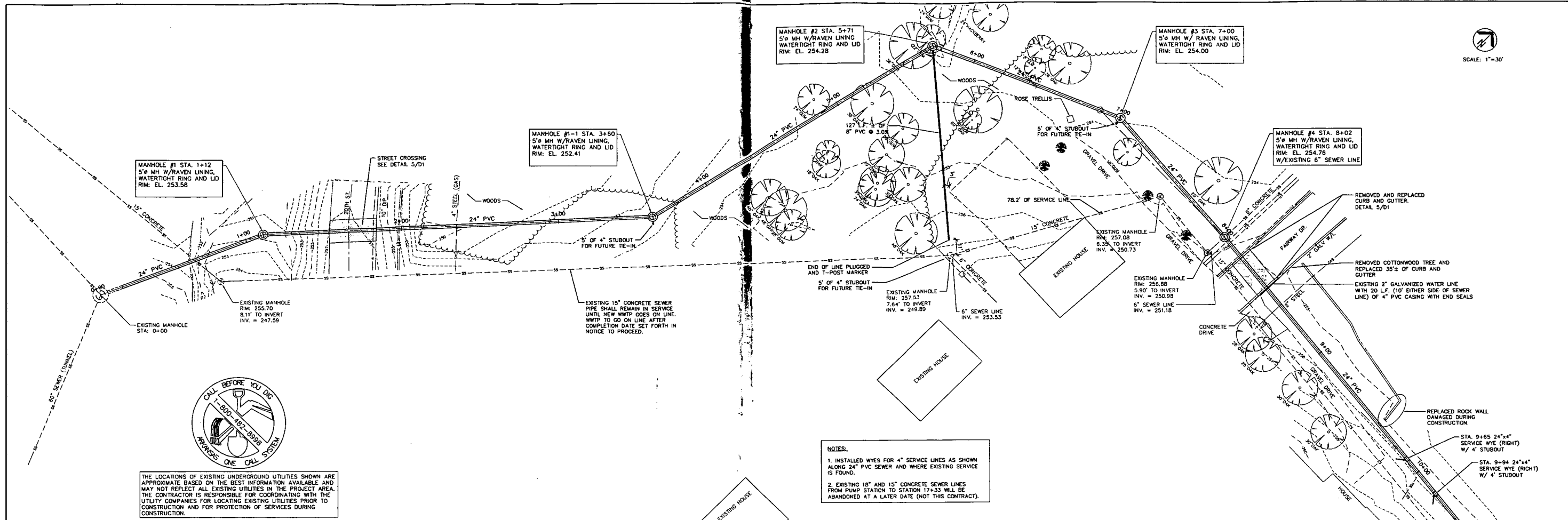
REV	DATE	BY	DESCRIPTION

DESIGNED	DRAWN
RC	ELH
CHECKED	
PLANS NO.	
BA138B51	



SANITARY SEWER REHABILITATION  
BATESVILLE, ARKANSAS  
SHEET INDEX  
AND  
VICINITY MAP

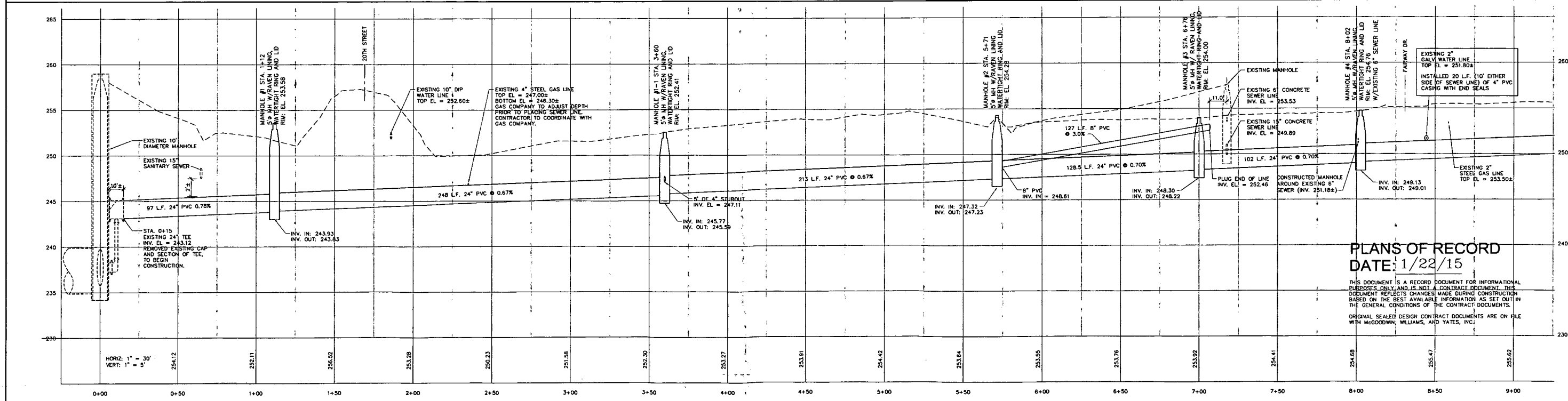
STRUCTURE NO.  
SHEET NO.  
G2



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- NOTES:**
1. INSTALLED WYES FOR 4" SERVICE LINES AS SHOWN ALONG 24" PVC SEWER AND WHERE EXISTING SERVICE IS FOUND.
  2. EXISTING 18" AND 15" CONCRETE SEWER LINES FROM PUMP STATION TO STATION 17+33 WILL BE ABANDONED AT A LATER DATE (NOT THIS CONTRACT).



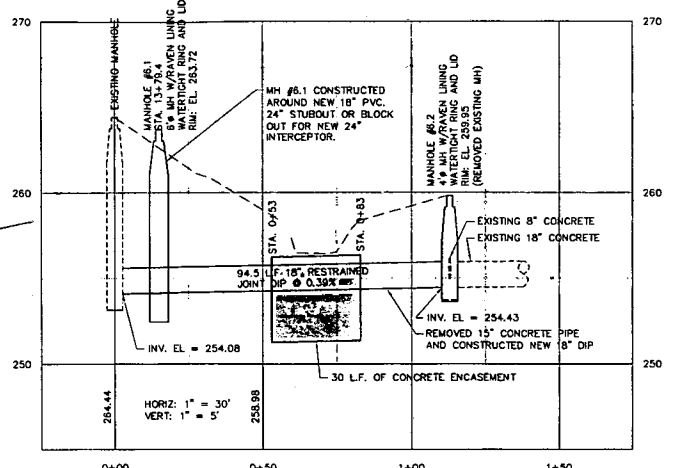
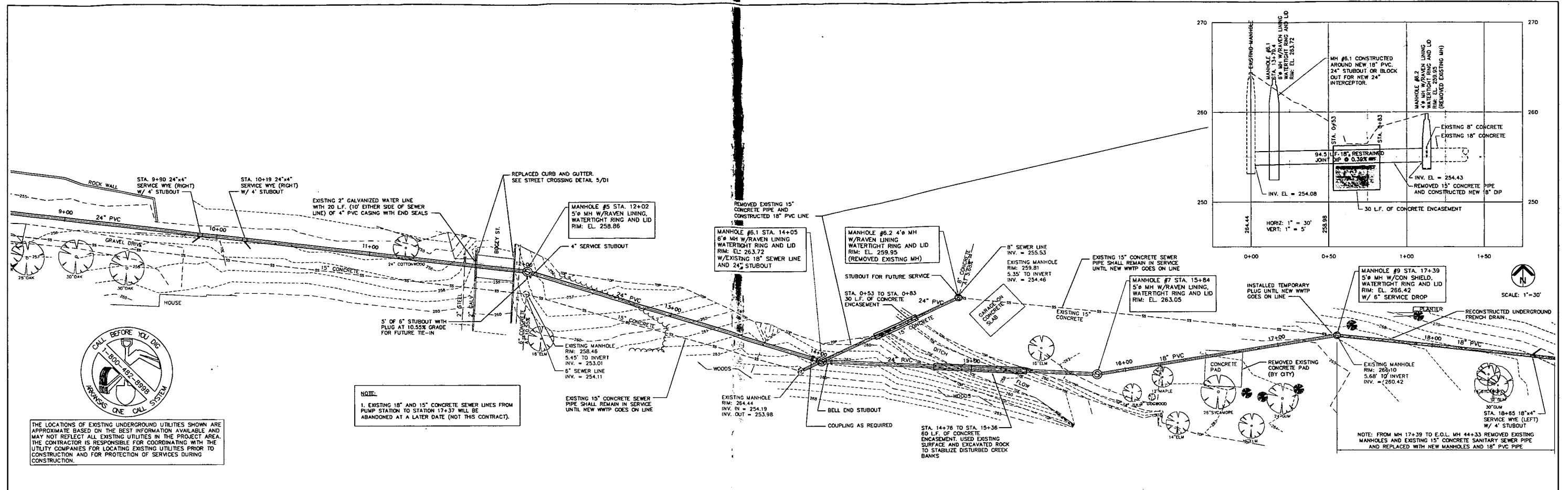
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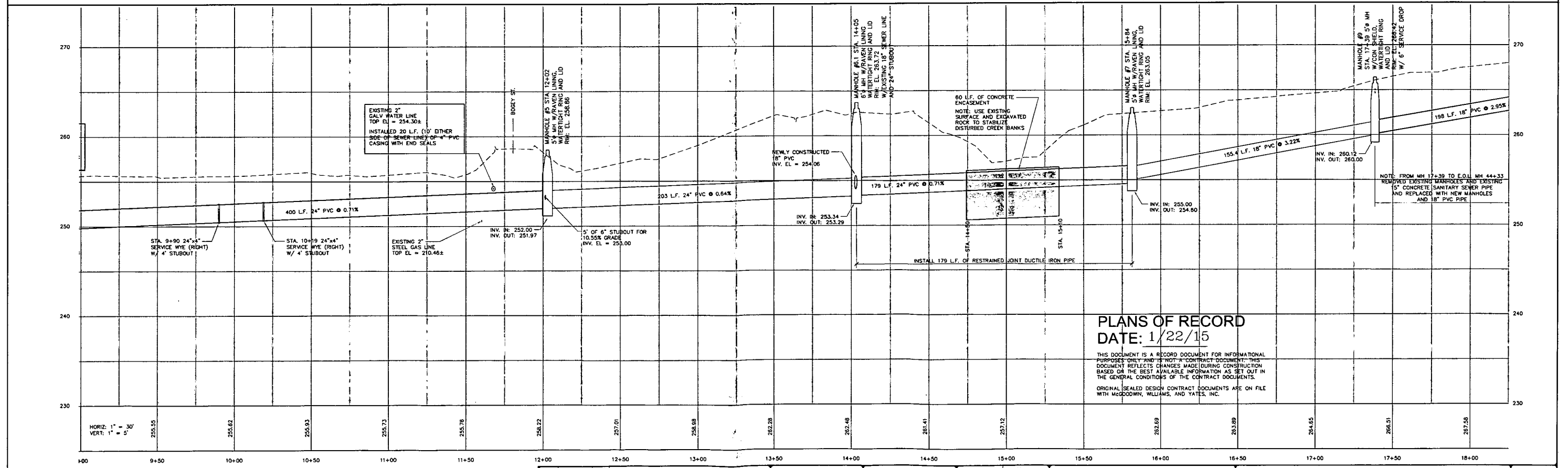
DESIGNED: RC  
DRAWN: ELH  
CHECKED: [Signature]  
PLANS NO. BA138B51  
McGoodwin Williams & Yates  
Engineering Confidence  
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SANITARY SEWER REHABILITATION  
BATESVILLE, ARKANSAS  
BASIN 5 INTERCEPTOR  
STA. 0+00 TO 9+00  
STRUCTURE NO. [Blank]  
SHEET NO. C1



**NOTE:**  
 1. EXISTING 18" AND 15" CONCRETE SEWER LINES FROM PUMP STATION TO STATION 17+37 WILL BE ABANDONED AT A LATER DATE (NOT THIS CONTRACT).

**NOTE:** FROM MH 17+39 TO E.O.L. MH 44+33 REMOVED EXISTING 15" CONCRETE SANITARY SEWER PIPE AND REPLACED WITH NEW MANHOLES AND 18" PVC PIPE.



**PLANS OF RECORD**  
**DATE: 1/22/15**

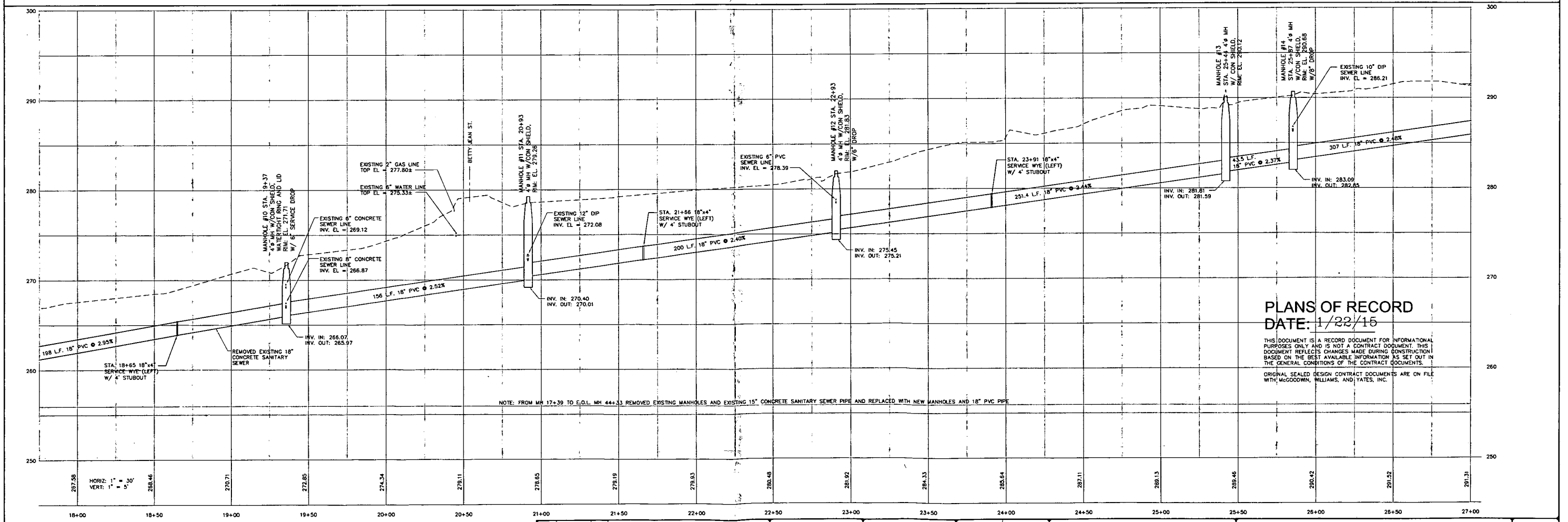
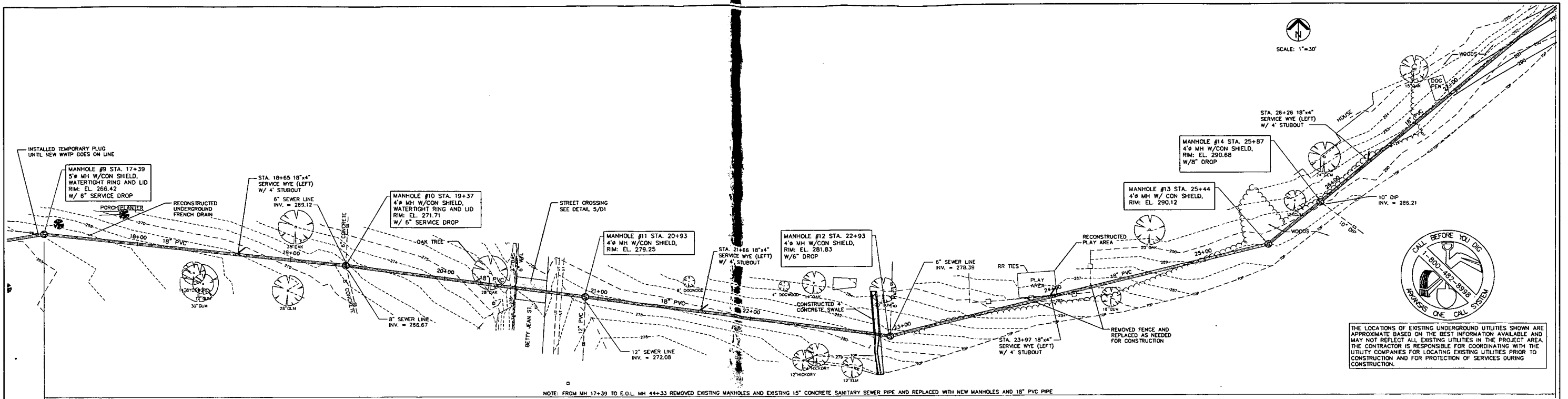
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REV	DATE	BY	DESCRIPTION

DESIGNED: RC  
 DRAWN: ELH  
 CHECKED: [Signature]  
 PLANS NO. BA138B51  
**McGoodwin Williams & Yates**  
 Engineering Confidence  
 © 2015 Fayetteville, Arkansas

SANITARY SEWER REHABILITATION  
 BATESVILLE, ARKANSAS  
**BASIN 5 INTERCEPTOR**  
 STA. 9+00 TO 18+00  
 STRUCTURE NO. [Blank]  
 SHEET NO. C2

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REV	DATE	BY	DESCRIPTION

DESIGNED: RC  
DRAWN: ELH  
CHECKED: [Signature]

PLANS NO. BA138B51

McGoodwin Williams & Yates  
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SANITARY SEWER REHABILITATION  
BATESVILLE, ARKANSAS

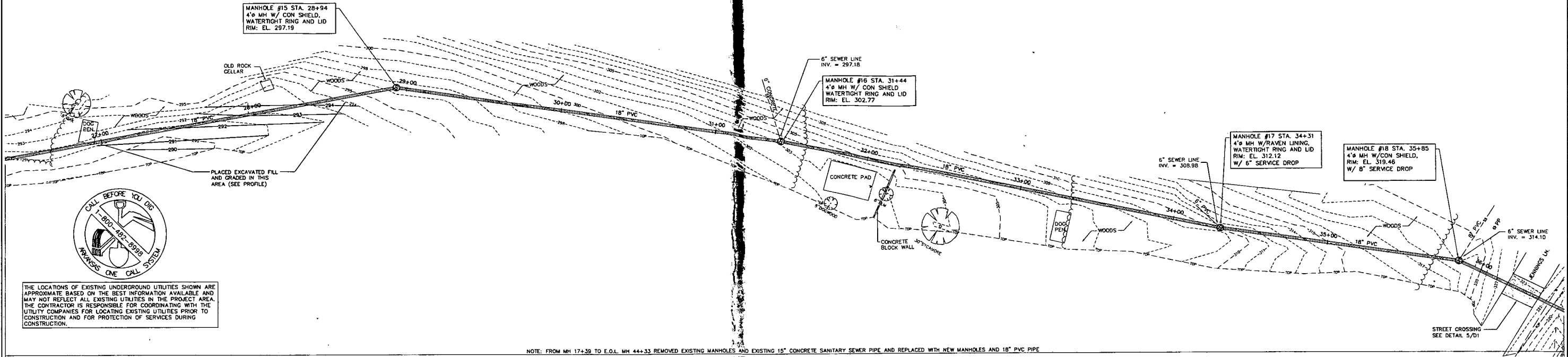
BASIN 5 INTERCEPTOR  
STA. 18+00 TO 27+00

STRUCTURE NO. [Blank]  
SHEET NO. C3

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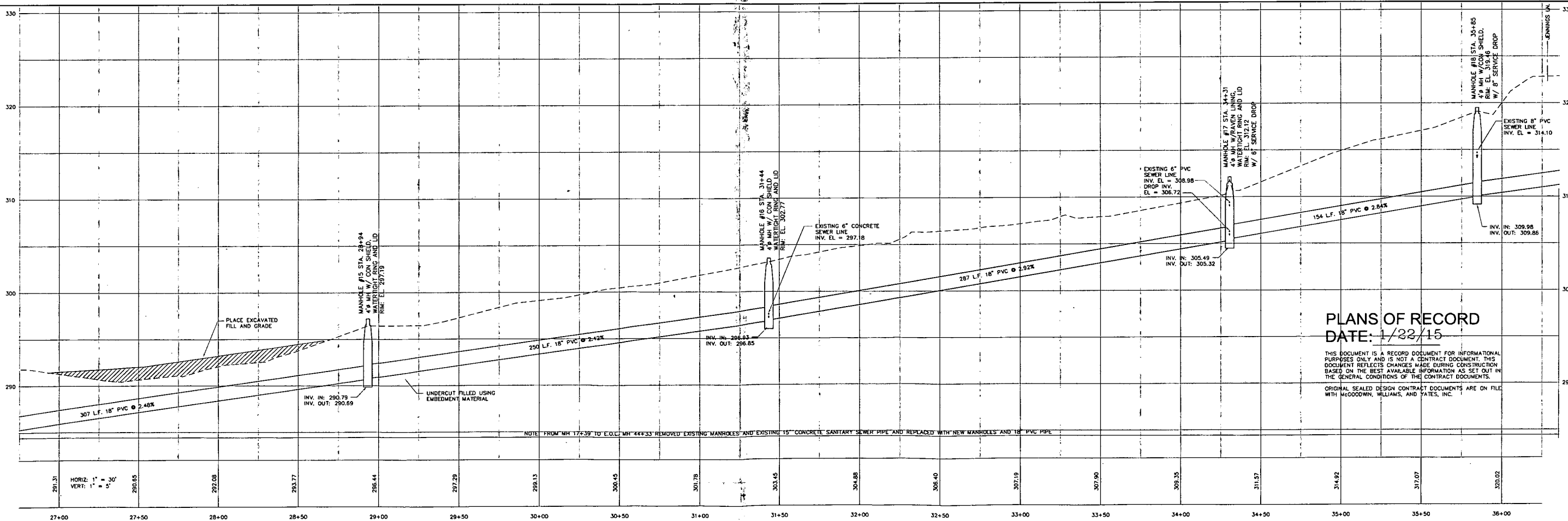
SCALE: 1" = 30'



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NOTE: FROM MH 17+39 TO E.O.L. MH 44+33 REMOVED EXISTING MANHOLES AND EXISTING 15" CONCRETE SANITARY SEWER PIPE AND REPLACED WITH NEW MANHOLES AND 18" PVC PIPE



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DATE: 1/22/15

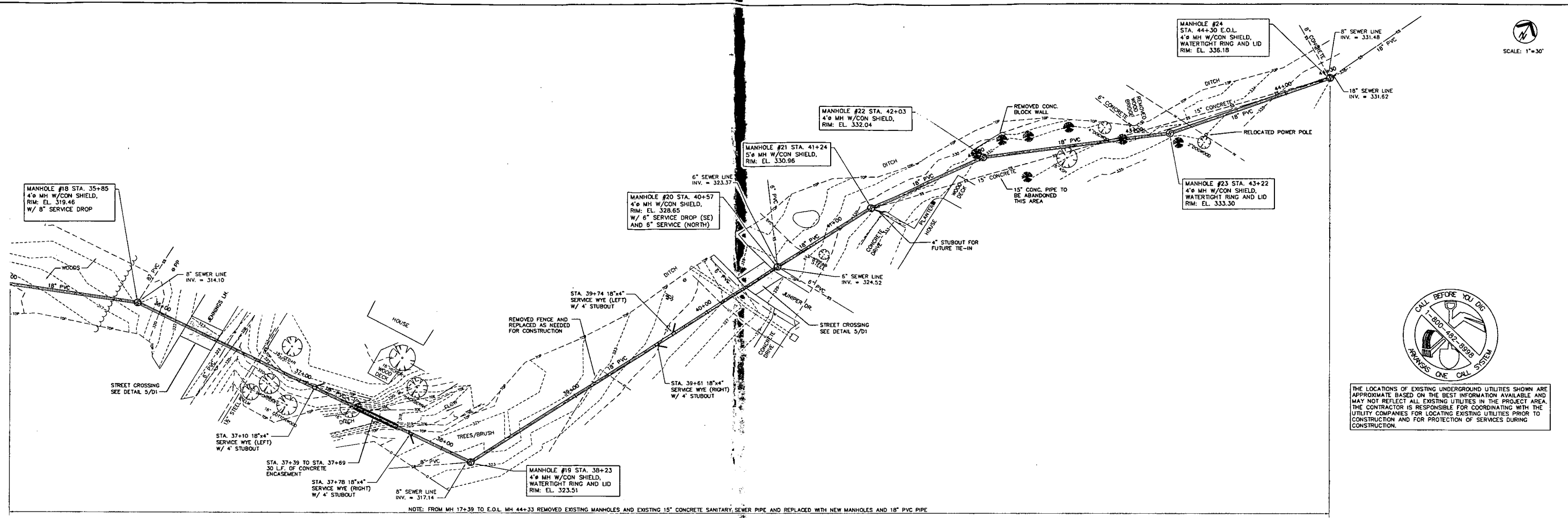
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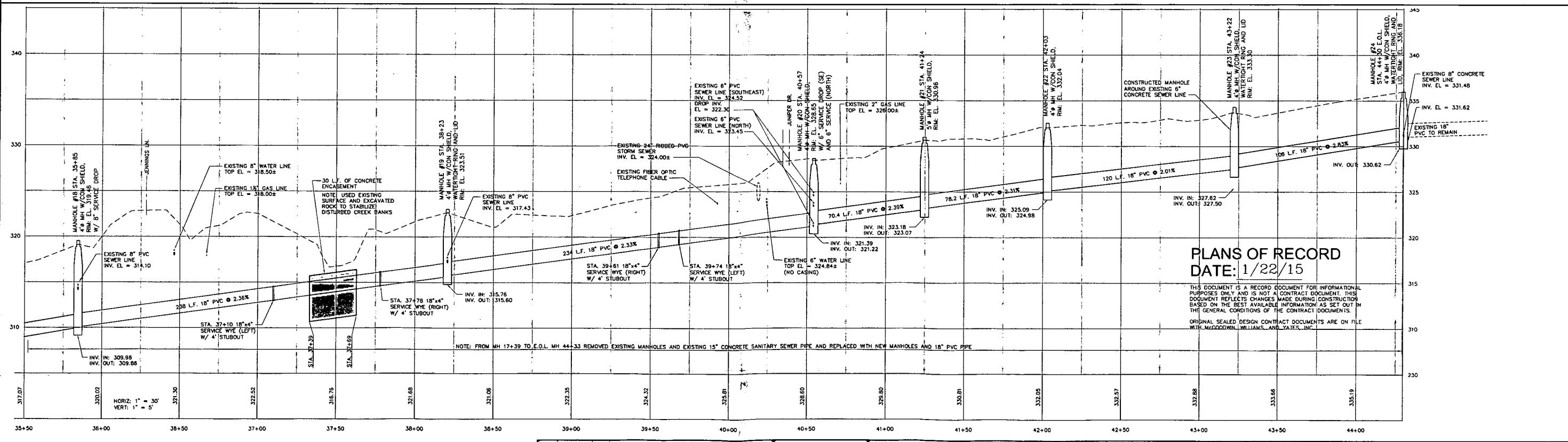
DESIGNED: RC  
DRAWN: ELH  
CHECKED: [Signature]  
PLANS NO.: BA138B51  
McGoodwin Williams & Yates  
Engineering Confidence  
© 2013 Fayetteville, Arkansas

SANITARY SEWER REHABILITATION  
BATESVILLE, ARKANSAS  
BASIN 5 INTERCEPTOR  
STA. 27+00 TO 36+00  
STRUCTURE NO. [ ]  
SHEET NO. C4



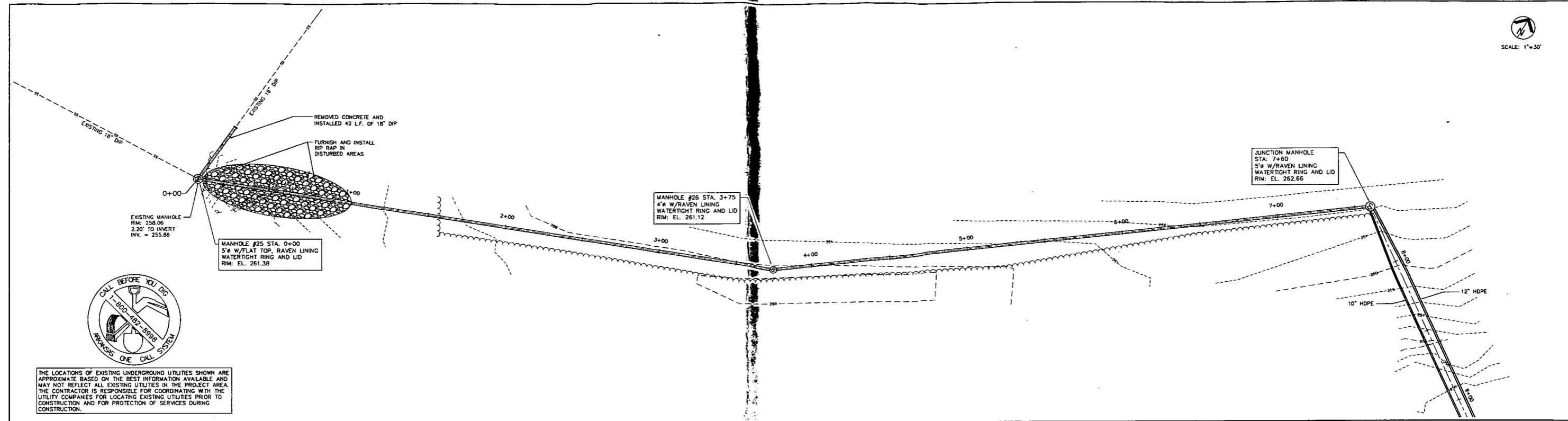


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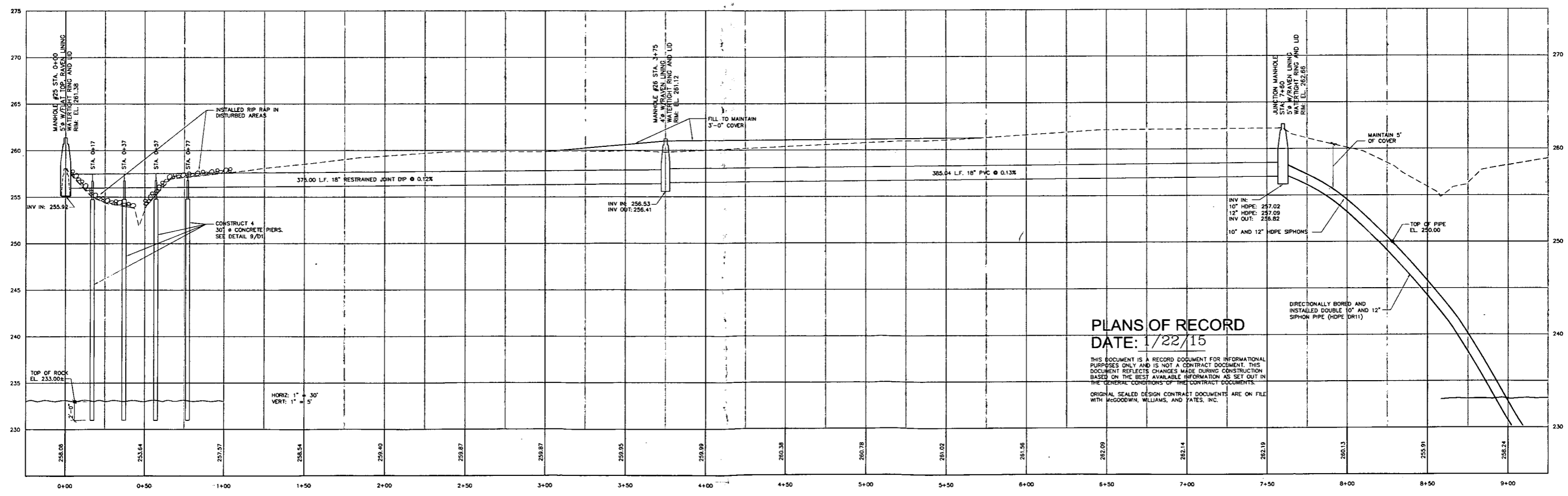


DESIGNED RC	DRAWN ELH	<p>McGoodwin Williams &amp; Yates Engineering Confidence © 2015 Fayetteville, Arkansas</p>	SANITARY SEWER REHABILITATION BATESVILLE, ARKANSAS <b>BASIN 5 INTERCEPTOR                  STA. 36+00 TO 44+24</b>	STRUCTURE NO.
CHECKED	PLANS NO. BA138B51			SHEET NO. C5
REV	DATE	BY	DESCRIPTION	

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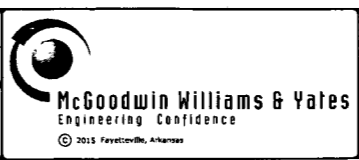


**PLANS OF RECORD**  
DATE: 1/22/15

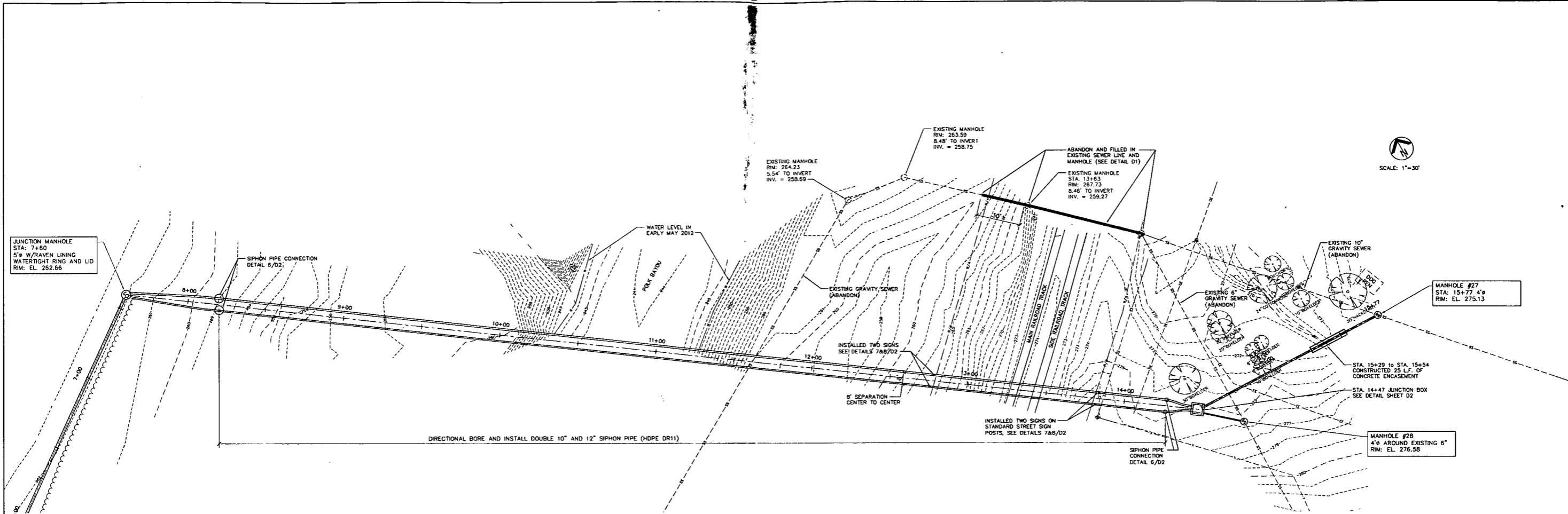
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PLANS NO.	
BA138B51	



SANITARY SEWER REHABILITATION		STRUCTURE NO.
BATESVILLE, ARKANSAS		
POLK BAYOU SEWER LINE		SHEET NO.
STA. 0+00 TO 9+00		C6



PLAN

SEE SHEET C7A FOR PROFILE



THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES SHOWN ARE APPROXIMATE BASED ON THE BEST INFORMATION AVAILABLE AND MAY NOT REFLECT ALL EXISTING UTILITIES IN THE PROJECT AREA. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH THE UTILITY COMPANIES FOR LOCATING EXISTING UTILITIES PRIOR TO CONSTRUCTION AND FOR PROTECTION OF SERVICES DURING CONSTRUCTION.

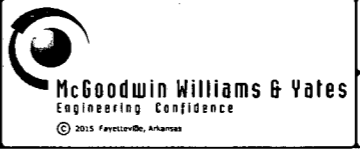
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- SUMMARY OF CHANGES:**
1. ADD 40 L.F. OF 18" UNCOATED STEEL CASING TO EACH BORE
  2. MOVE 4" VENT PIPE
  3. CHANGE GRADE OF INVERTED SIPHON THROUGH THE BORES
  4. CHANGE WORDING ON SIGNS AT RAILROAD RIGHT-OF-WAY
  5. ALLOW C900 PVC TO BE CHANGED TO HDPE AT CONTRACTOR'S OPTION

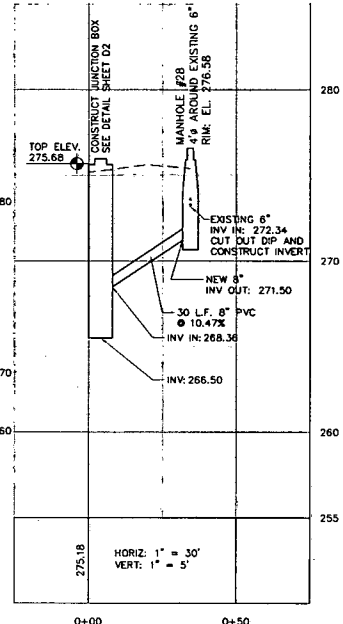
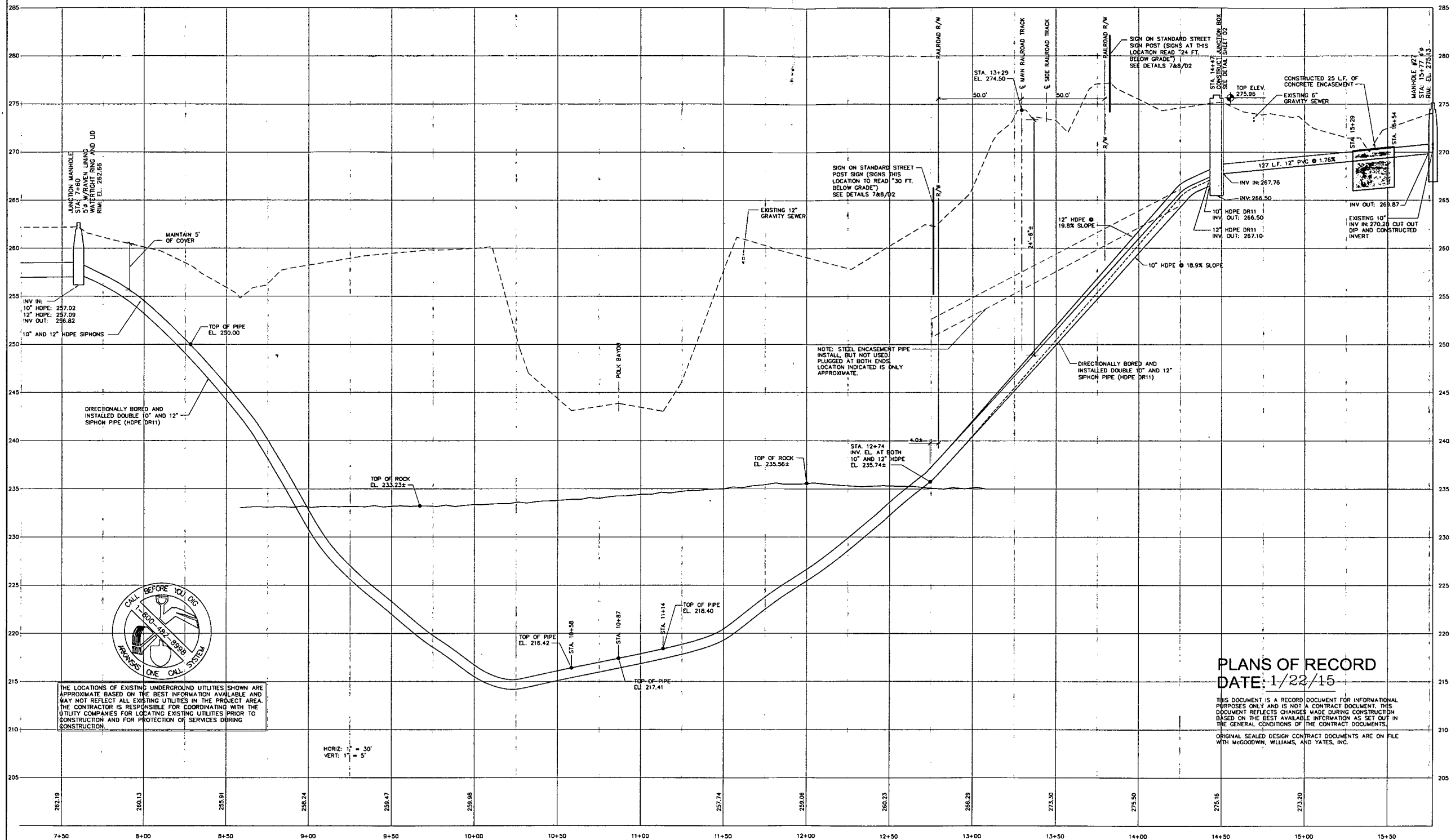
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DESIGNED RC	DRAWN ELH,ADA
CHECKED	
PLANS NO. BA138B51	



SANITARY SEWER REHABILITATION BATESVILLE, ARKANSAS		STRUCTURE NO.
POLK BAYOU SEWER LINE - PLAN STA. 9+00 TO 15+77		SHEET NO. C7

SEE SHEET C7 FOR PLAN



PLANS OF RECORD  
DATE: 1/22/15

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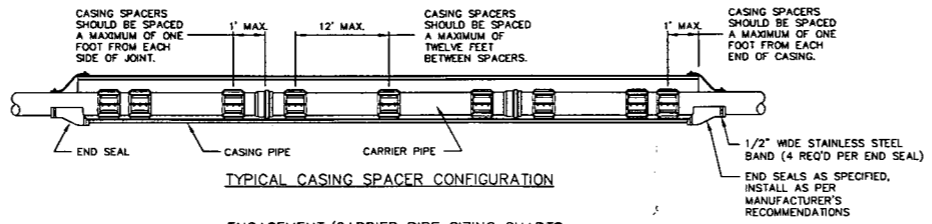
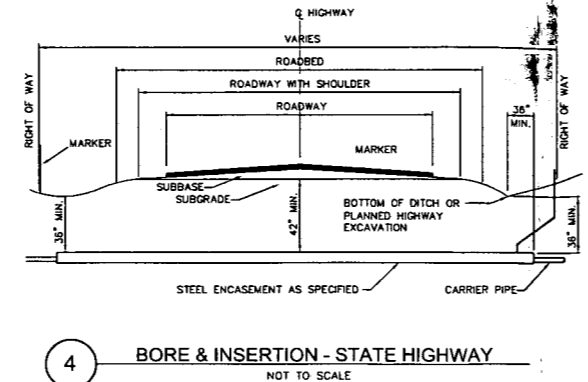
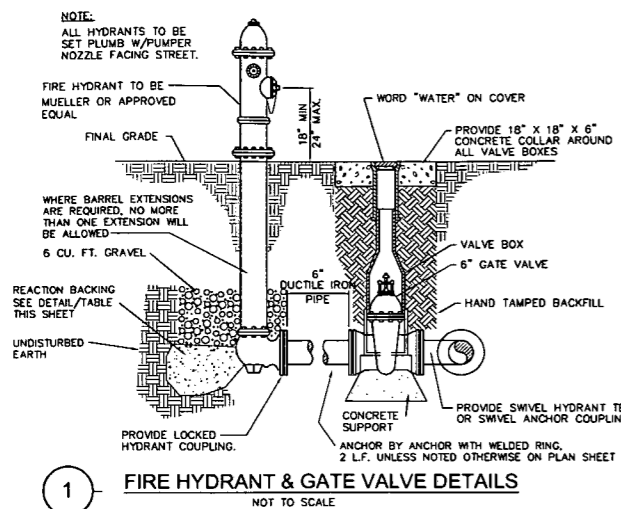
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REV	DATE	BY	DESCRIPTION

DESIGNED RC	DRAWN ELH,ADA
CHECKED	
PLANS NO. <b>BA138B51</b>	

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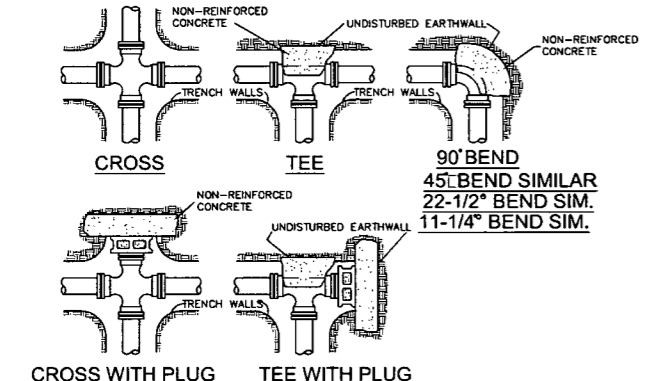
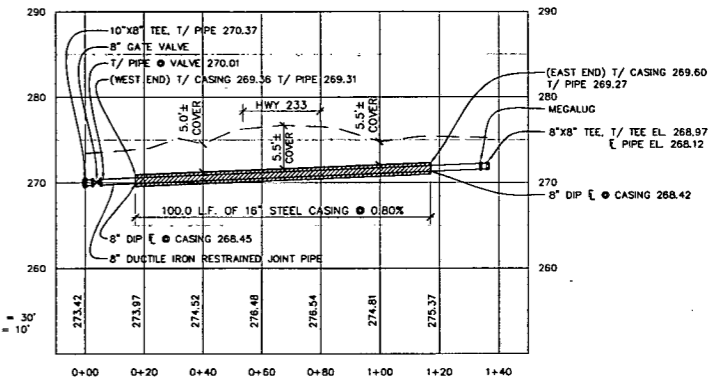
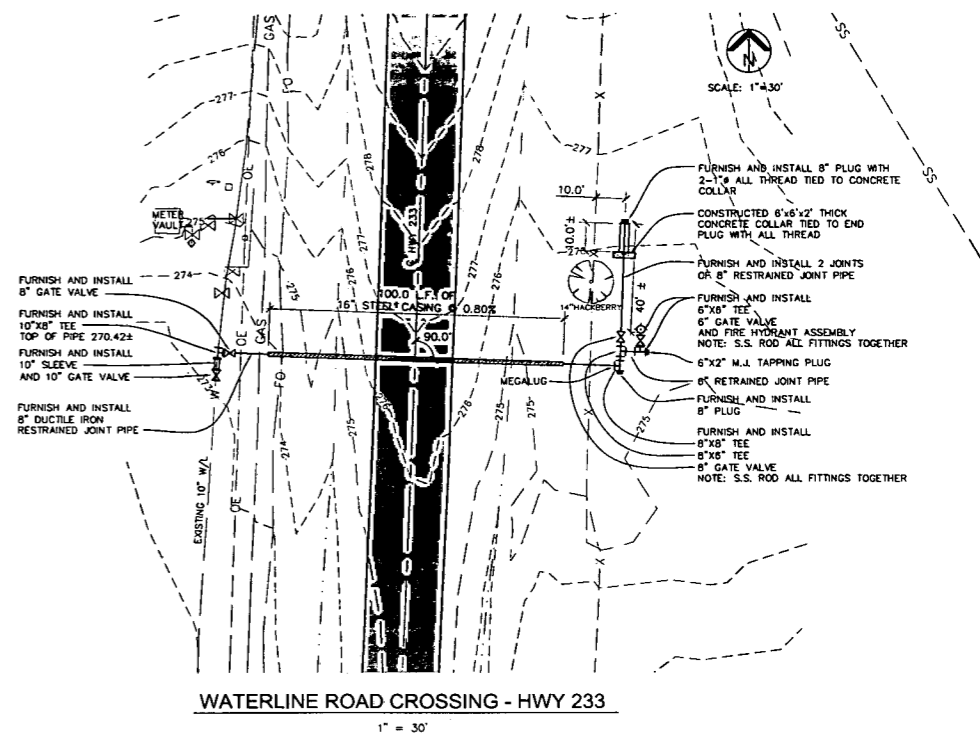
SANITARY SEWER REHABILITATION BATESVILLE, ARKANSAS		STRUCTURE NO.
POLK BAYOU SEWER LINE - PROFILE STA. 9+00 TO 15+77		SHEET NO. <b>C7A</b>



ENCASMENT/CARRIER PIPE SIZING CHARTS

PIPE SIZE	PVC/BELL	DIP/BELL	ENCASMENT PIPE	MIN. WALL THICKNESS
4"	5.50"	6.40"	12"	0.25"
6"	8.00"	8.60"	12"	0.25"
8"	10.25"	11.16"	16"	0.25"
10"	13.25"	13.25"	16" OR 18"	0.25"
12"	15.50"	15.22"	20" OR 24"	0.375"
16"	19.00"	19.86"	24"	0.375"

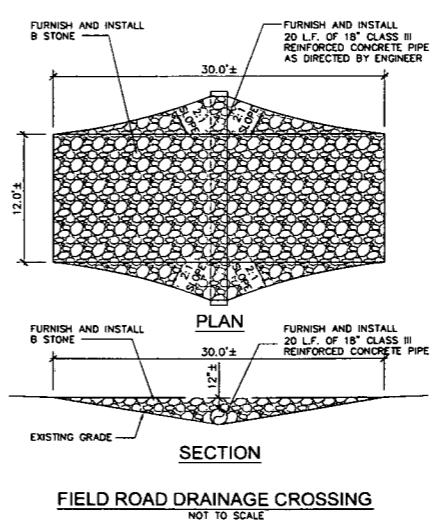
- NOTES:
- A MINIMUM OF THREE SPACERS PER FULL JOINT OF PIPE.
  - ALL D.I. CARRIER PIPE MUST HAVE FIELD LOCK GASKETS INSTALLED WITHIN THE CASING PIPE.



- NOTES:
- ALL FITTINGS SHALL BE MECHANICAL JOINTS AWWA C153/A21.53. MIN. PRESSURE CLASS 250 PSI.
  - DO NOT COVER BELLS OR FLANGES WITH CONCRETE.
  - WRAP ALL FITTINGS WITH 5 MIL. VISQUEEN.
  - BACK ALL TEES ACCORDING TO SIZE OF BRANCH.
  - BACKING FUTURE LINE EXTENSIONS SHALL BE SUCH THAT LATER REMOVAL IS POSSIBLE.
  - ALL BENDS WHERE FITTINGS ARE USED, BOTH HORIZONTAL AND VERTICAL, SHALL BE BACKED.
  - REACTION BACKING TABLE IS BASED ON 150 PSI AND SOIL BEARING PRESSURE OF 1,000 LB./SQ. FT. ADDITIONAL BACKING MAY BE REQUIRED IN SOME AREAS AS DIRECTED BY THE ENGINEER.
  - CONTRACTOR SHALL SIZE REACTION BACKING BASED ON WORKING PRESSURE PLUS SURGE

REACTION BACKING TABLE

PIPE DIAMETER	PIPE AREA (in ² )	REQUIRED SQ. FT. OF UNDISTURBED EARTH WALL FOR REACTING BACKING IN THE ABSENCE OF SPECIFIC VALUE ON PLANS			
		TEE	90°	45°	22 1/2°
3"	7.07	2	2	1	1
4"	12.57	2	3	2	1
6"	28.27	5	6	4	2
8"	50.27	8	11	6	3
10"	78.54	12	17	10	5
12"	113.10	17	24	13	7
14"	153.94	24	33	18	10
16"	201.06	31	43	24	12



THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES SHOWN ARE APPROXIMATE BASED ON THE BEST INFORMATION AVAILABLE AND MAY NOT REFLECT ALL EXISTING UTILITIES IN THE PROJECT AREA. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH THE UTILITY COMPANIES FOR LOCATING EXISTING UTILITIES PRIOR TO CONSTRUCTION AND FOR PROTECTION OF SERVICES DURING CONSTRUCTION.

PLANS OF RECORD  
DATE: 1/22/15

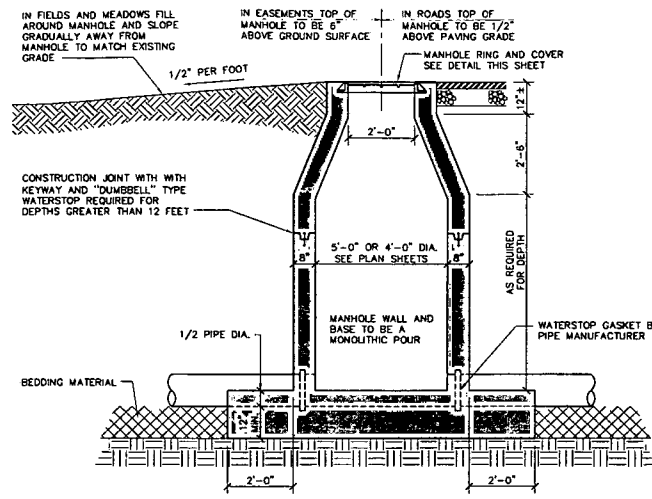
THIS DOCUMENT IS A RECORD DOCUMENT FOR INFORMATIONAL PURPOSES ONLY AND IS NOT A CONTRACT DOCUMENT. THIS DOCUMENT REFLECTS CHANGES MADE DURING CONSTRUCTION BASED ON THE BEST AVAILABLE INFORMATION AS SET OUT IN THE GENERAL CONDITIONS OF THE CONTRACT DOCUMENTS.  
ORIGINAL SEALED DESIGN CONTRACT DOCUMENTS ARE ON FILE WITH MCGOODWIN, WILLIAMS, AND YATES, INC.

REV	DATE	BY	DESCRIPTION

DESIGNED: RC  
DRAWN: ELH  
CHECKED: [Signature]  
PLANS NO. BA138B51  
McGoodwin Williams & Yates  
Engineering Confidence  
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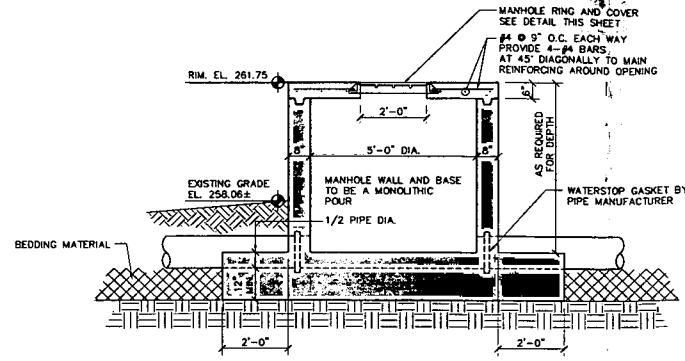
SANITARY SEWER REHABILITATION  
BATESVILLE, ARKANSAS  
WATERLINE CROSSING - HWY 233  
STRUCTURE NO. [Blank]  
SHEET NO. C8

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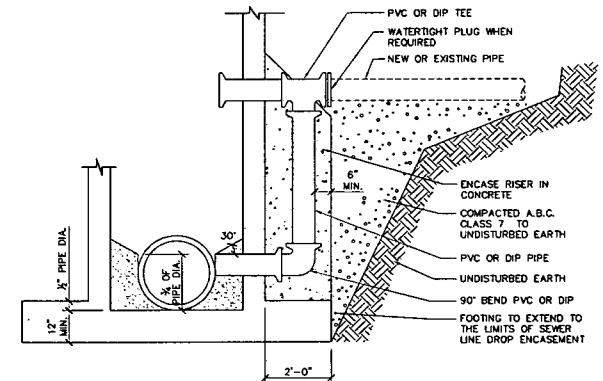


TYPICAL MANHOLE

1 CAST IN PLACE MANHOLE DETAIL  
3/8" = 1'-0"

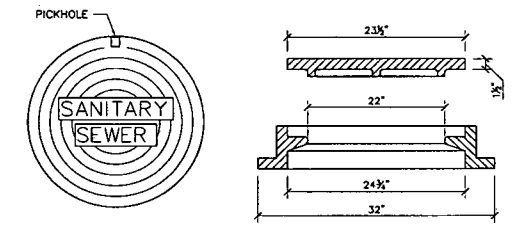


FLAT TOP MANHOLE (MH#25)

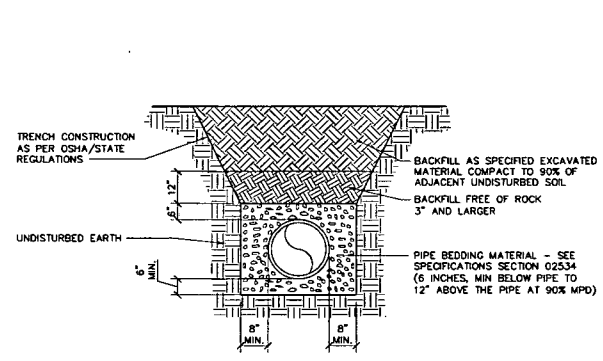


2 SEWER LINE DROP ASSEMBLY DETAIL  
3/8" = 1'-0"

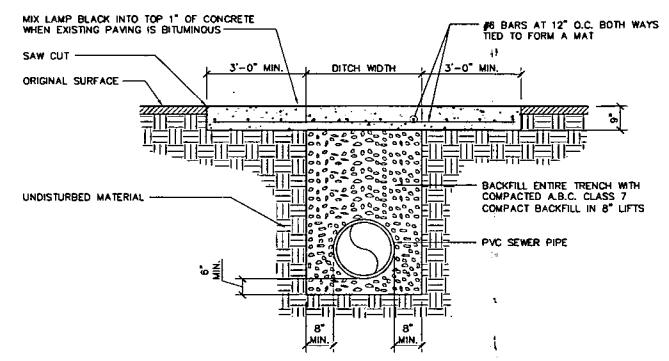
REGULAR COVERS - FRAME AND LID TO BE EAST JORDAN/VULCAN V-1348-2 OR EQUAL WITH A COVER WEIGHT OF 140 LBS. AND A TOTAL FRAME AND LID WEIGHT OF 290 LBS. LID SHALL HAVE TYPE 3 PICK BARS.



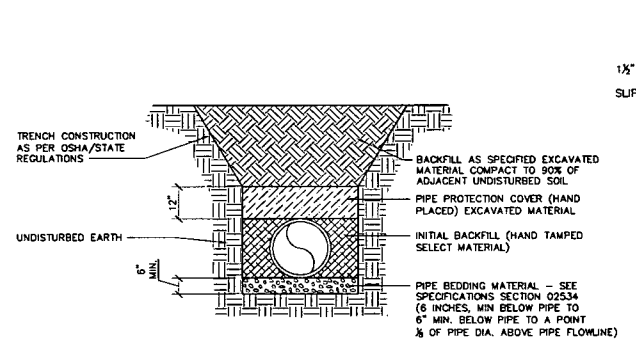
3A TYPICAL MANHOLE RING AND COVER DETAIL  
NOT TO SCALE



4 UNPAVED AREAS PVC PIPE BEDDING AND COVER DETAIL  
NOT TO SCALE

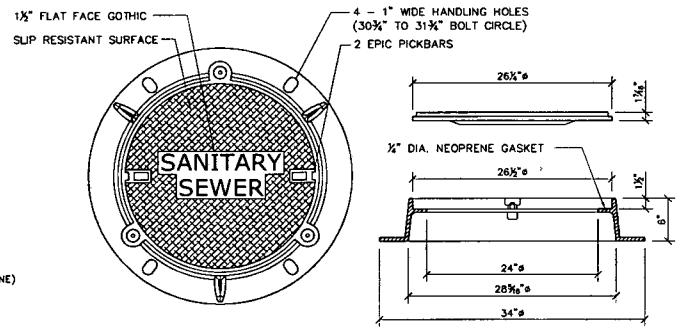


5 STREET CROSSING PVC PIPE BEDDING AND COVER DETAIL  
NOT TO SCALE

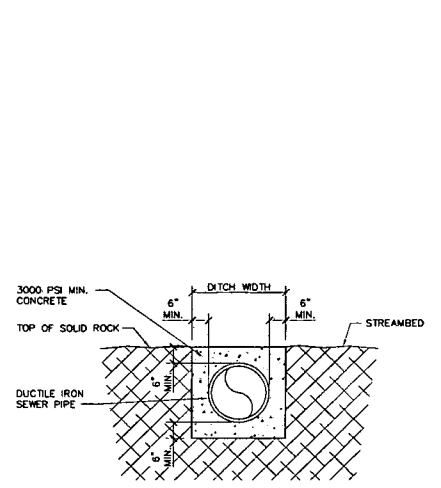


6 UNPAVED AREAS DUCTILE IRON PIPE BEDDING AND COVER DETAIL  
NOT TO SCALE

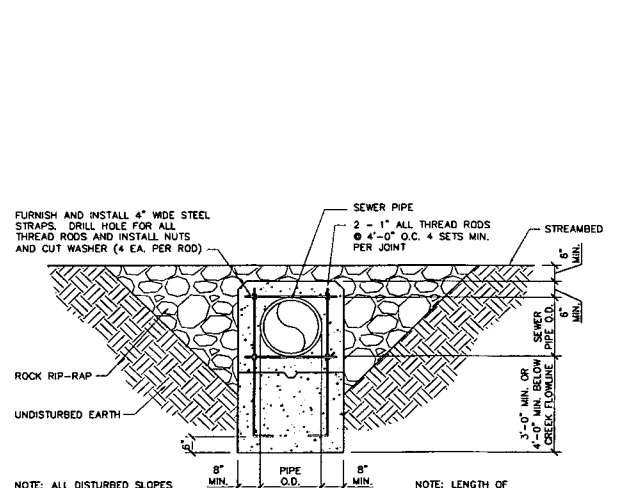
WATERTIGHT COVERS - FRAME AND LID TO BE COMPRESSION - PRODUCT NUMBER 42339046W01



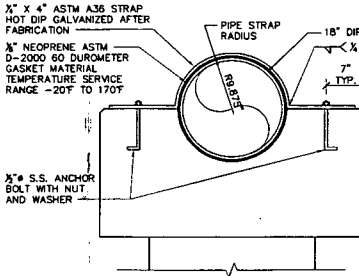
3B WATERTIGHT MANHOLE RING AND COVER DETAIL  
NOT TO SCALE



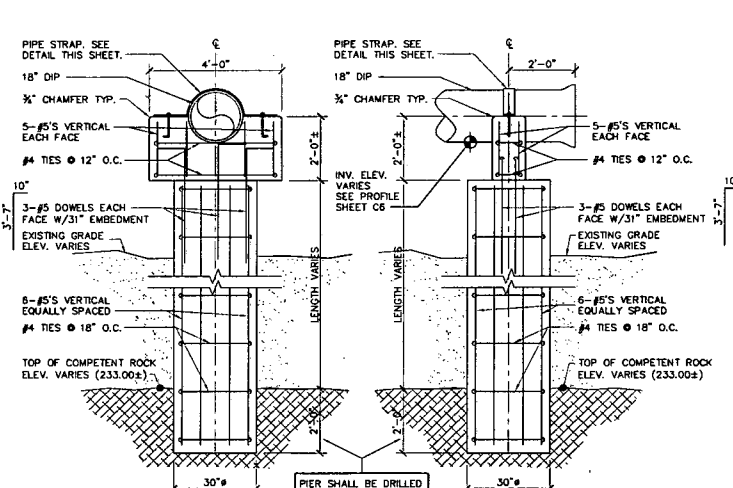
7 CONCRETE ENCASEMENT SOLID ROCK TRENCH CROSSING @ STREAM CROSSING  
NOT TO SCALE



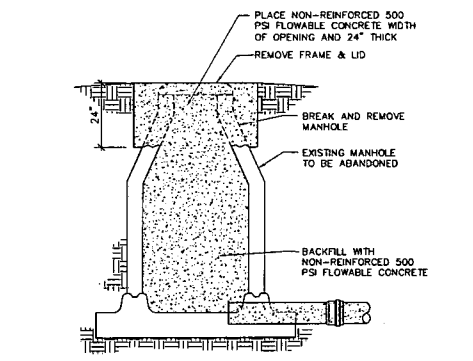
8 CONCRETE ENCASEMENT NO SOLID ROCK TRENCH CROSSING @ STREAM CROSSING  
NOT TO SCALE



PIPE STRAP DETAIL  
NOT TO SCALE



9 CONCRETE PIER DETAIL  
3/8" = 1'-0"



10 ABANDON EXISTING MANHOLE DETAIL  
NOT TO SCALE

PLANS OF RECORD  
DATE: 1/22/15

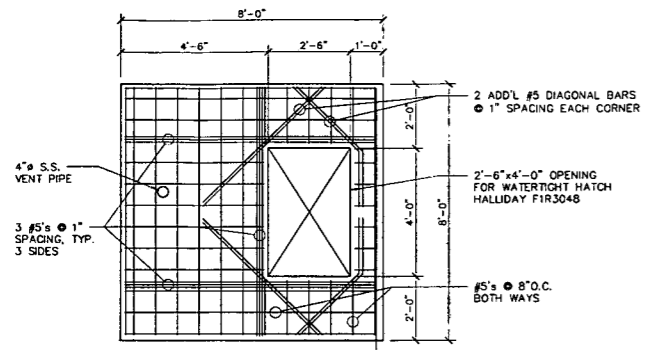
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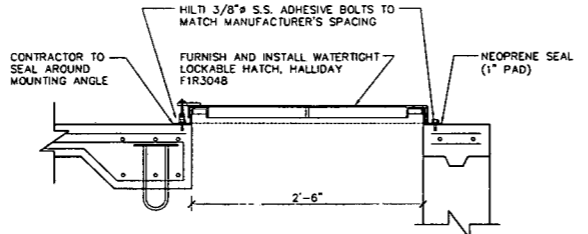
REV	DATE	BY	DESCRIPTION

DESIGNED: RC  
DRAWN: ELH  
CHECKED: [Signature]  
PLANS NO: BA138B51  
McGoodwin Williams & Yates  
Engineering Confidence  
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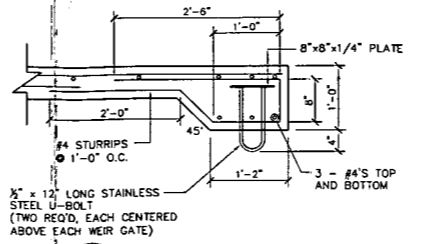
SANITARY SEWER REHABILITATION  
BATESVILLE, ARKANSAS  
STRUCTURE NO. [Blank]  
SHEET NO. D1



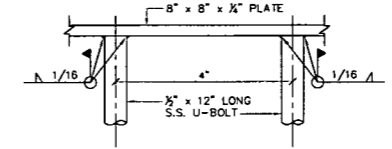
1 PLAN - ROOF REINFORCING  
3/8" = 1'-0"



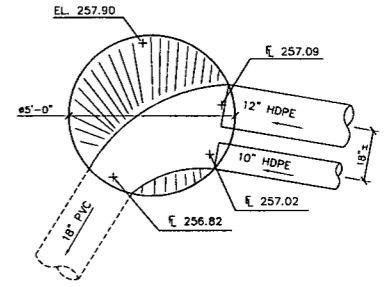
2 LOCKABLE HATCH DETAIL  
NOT TO SCALE



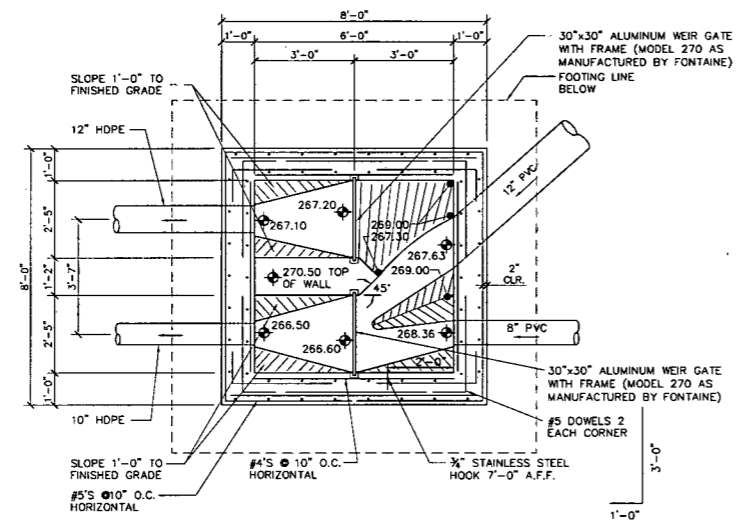
3 U-BOLT DETAIL  
NOT TO SCALE



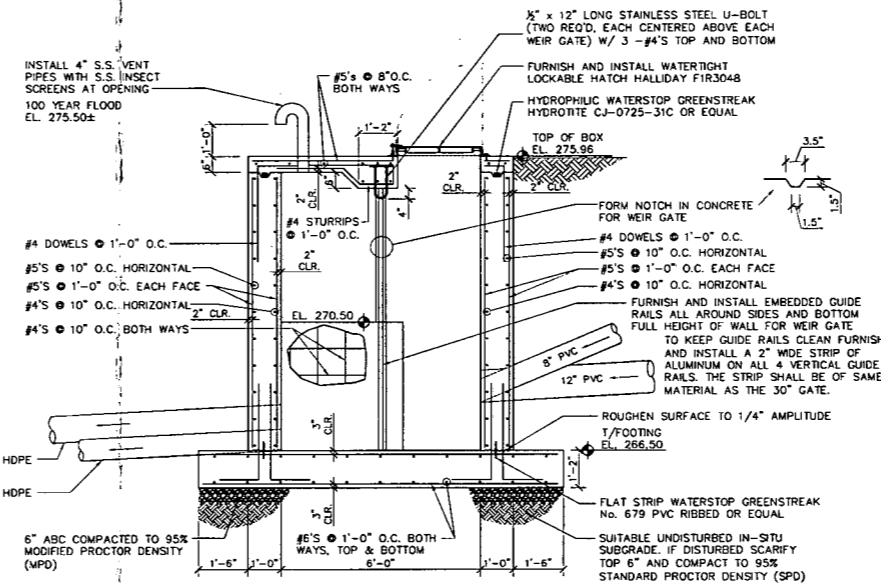
4 U-BOLT / PLATE DETAIL  
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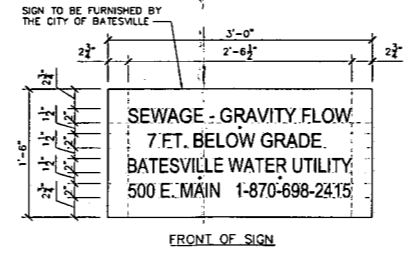
5 PLAN - DOWNSTREAM MANHOLE DETAIL  
NOT TO SCALE



PLAN - JUNCTION BOX  
3/8" = 1'-0"



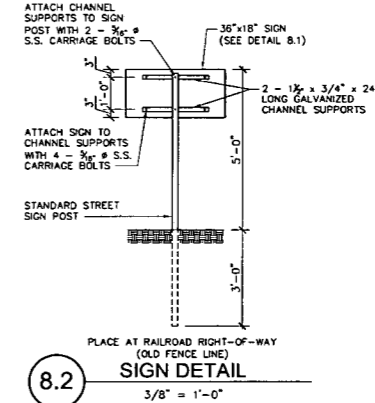
SECTIONAL ELEVATION  
3/8" = 1'-0"



FRONT OF SIGN

- NOTE:
- 4 SIGNS REQUIRED. THE 2 SIGNS ON THE NORTHWEST SIDE OF THE R/W TO READ "30 FT. BELOW GRADE" MOUNTED AS SHOWN IN THIS DETAIL. THE 2 SIGNS ON THE SOUTHEAST SIDE OF THE R/W TO READ "24 FT. BELOW GRADE" AND TO BE MOUNTED ON STREET SIGN POSTS AS SHOWN IN DETAIL 8.2
  - ALL SIGNS TO BE MOUNTED SO THAT THEY ARE FACING THE RAILROAD TRACKS.
  - REFLECTIVE SHEETING SHALL COMPLY WITH ASTM 4956 TYPE 9 REFLECTIVE SHEETING. SHEETING AND LEGEND SHALL BE APPLIED IN SUCH A MANNER TO PROVIDE WRINKLE AND BUBBLE FREE SURFACES.
  - ALUMINUM SIGN SHALL BE YELLOW WITH BLACK LETTERING AND SHALL BE ALLOY 6061-T6 OR 5052-H38. THE ALUMINUM SIGN SHALL BE ANODIZED. THE ALUMINUM SHEETING SHALL BE 0.100 INCH NOMINAL THICKNESS AND OF THE SIZE SHOWN.
  - THE CLEARVIEW 5-W-R FONT SHALL BE USED FOR ALL LETTERS.

8.1 SIGN DETAIL  
1" = 1'-0"



8.2 SIGN DETAIL  
3/8" = 1'-0"

- SUMMARY OF CHANGES:
- THE ELECTRICAL POWER COMPANY WHOSE OVERHEAD LINES ARE PARALLEL TO SOUTHEAST SIDE OF THE RAILROAD WOULD NOT ALLOW EQUIPMENT TO OPERATE UNDER THEIR POWER LINES. ADD 40 L.F. OF 18" STEEL CASING PIPE FOR EACH OF THE SIPHON PIPE. THE SOUTHEAST END OF CASING WAS CHANGED TO MEET THE ELEVATION REQUIRED AT THE SIPHON BOX.
  - ADD 2 STREET SIGN POSTS TO ANCHOR SIGN ON SOUTHEAST SIDE AT RIGHT-OF-WAY.
  - REROUTE 4" VENT PIPE FROM RAILROAD RIGHT-OF-WAY TO SIPHON BOX. ADDING ABOUT 8 L.F. OF 4" STAINLESS STEEL VENT PIPE AND 3 - 90° BENDS AND 1 - TEE.
  - THE SIPHON BOX REQUIRES THE FOLLOWING CHANGE:
    - LOWER THE CENTER WALL FROM EL. 271.68 TO EL. 270.50 AND INCREASE THE WALL WIDTH TO 14" TO ACCOMMODATE THE GATE AND FRAME. THE CONTRACTOR SHOULD HAVE ON SITE THE FONTAINE FRAME AND GATE PRIOR TO FORMING THE SIPHON BOX.
    - THE REVISED GATE AND FRAME WILL REQUIRE 2 - 30" x 30" WEIR GATES IN LIEU OF THE 30" x 12" AND THE 30" x 24" SHOWN ON PLANS AS BID. THE TOTAL LENGTH OF THE GUIDE WILL BE ABOUT 5' LESS LENGTH THAN BID.
    - TO KEEP THE GUIDE RAIL CLEAN THE CONTRACTOR SHALL FURNISH AND INSTALL A 2" WIDE STRIP OF ALUMINUM ON ALL FOUR VERTICAL GUIDE RAILS. THE STRIP SHALL BE OF SAME MATERIAL AS THE 30" GATE.

PLANS OF RECORD  
DATE: 1/22/15

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ORIGINAL SEALED DESIGN CONTRACT DOCUMENTS ARE ON FILE WITH MCGOODWIN, WILLIAMS, AND YATES, INC.

DESIGNED RC	DRAWN ELM		SANITARY SEWER REHABILITATION BATESVILLE, ARKANSAS	STRUCTURE NO.
CHECKED	PLANS NO. BA138B51			SHEET NO. D2
REV	DATE	BY	DESCRIPTION	

ANALYSIS OF SANITARY SEWER REHABILITATION ELIMINATED BY NEW LINE WORK

# SANITARY SEWER REHABILITATION

MANHOLE REHABILITATION AND CURED-IN-PLACE PIPE  
INSTALLATION FOR WASTEWATER COLLECTION SYSTEM

FOR THE CITY OF  
**BATESVILLE, ARKANSAS**

RLF PROJECT NO. WRD-003-620

MWY PROJECT NO. BA-138CAO

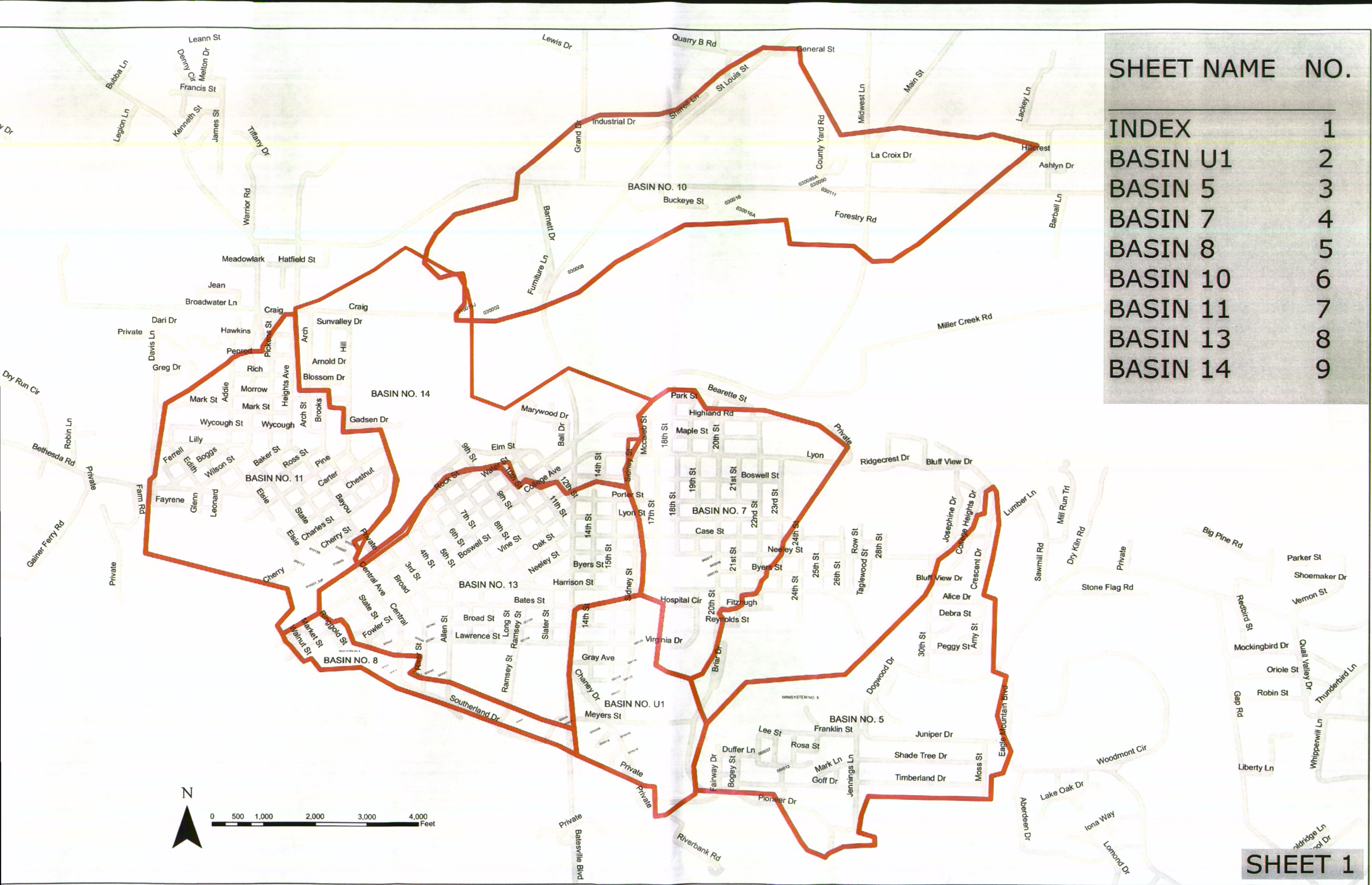
JANUARY 2015



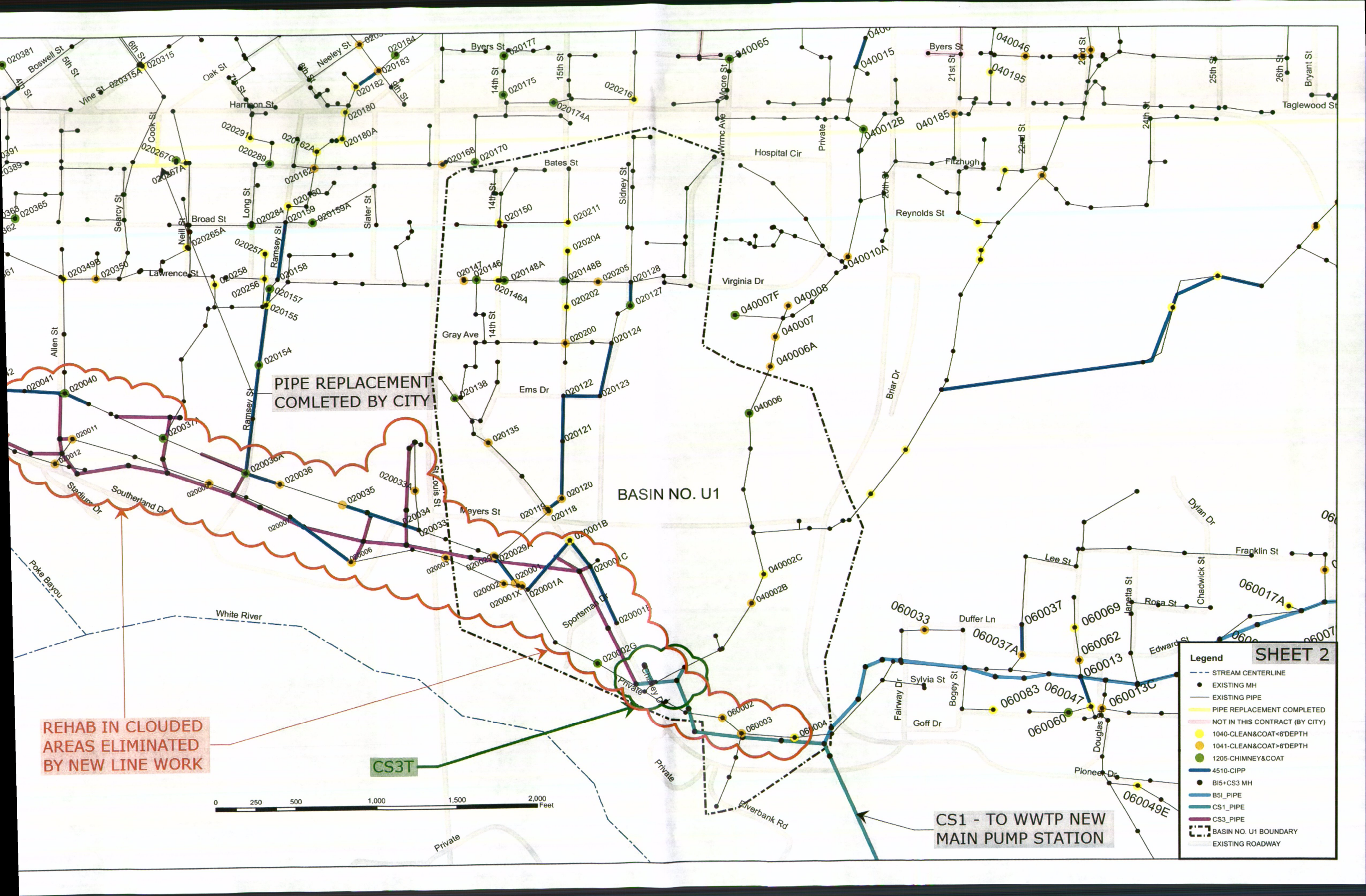
**McGoodwin Williams & Yates**  
Engineering Confidence

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SHEET NAME	NO.
INDEX	1
BASIN U1	2
BASIN 5	3
BASIN 7	4
BASIN 8	5
BASIN 10	6
BASIN 11	7
BASIN 13	8
BASIN 14	9



PIPE REPLACEMENT COMPLETED BY CITY

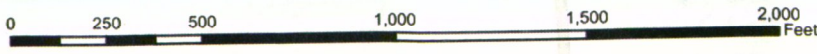
REHAB IN CLOUDED AREAS ELIMINATED BY NEW LINE WORK

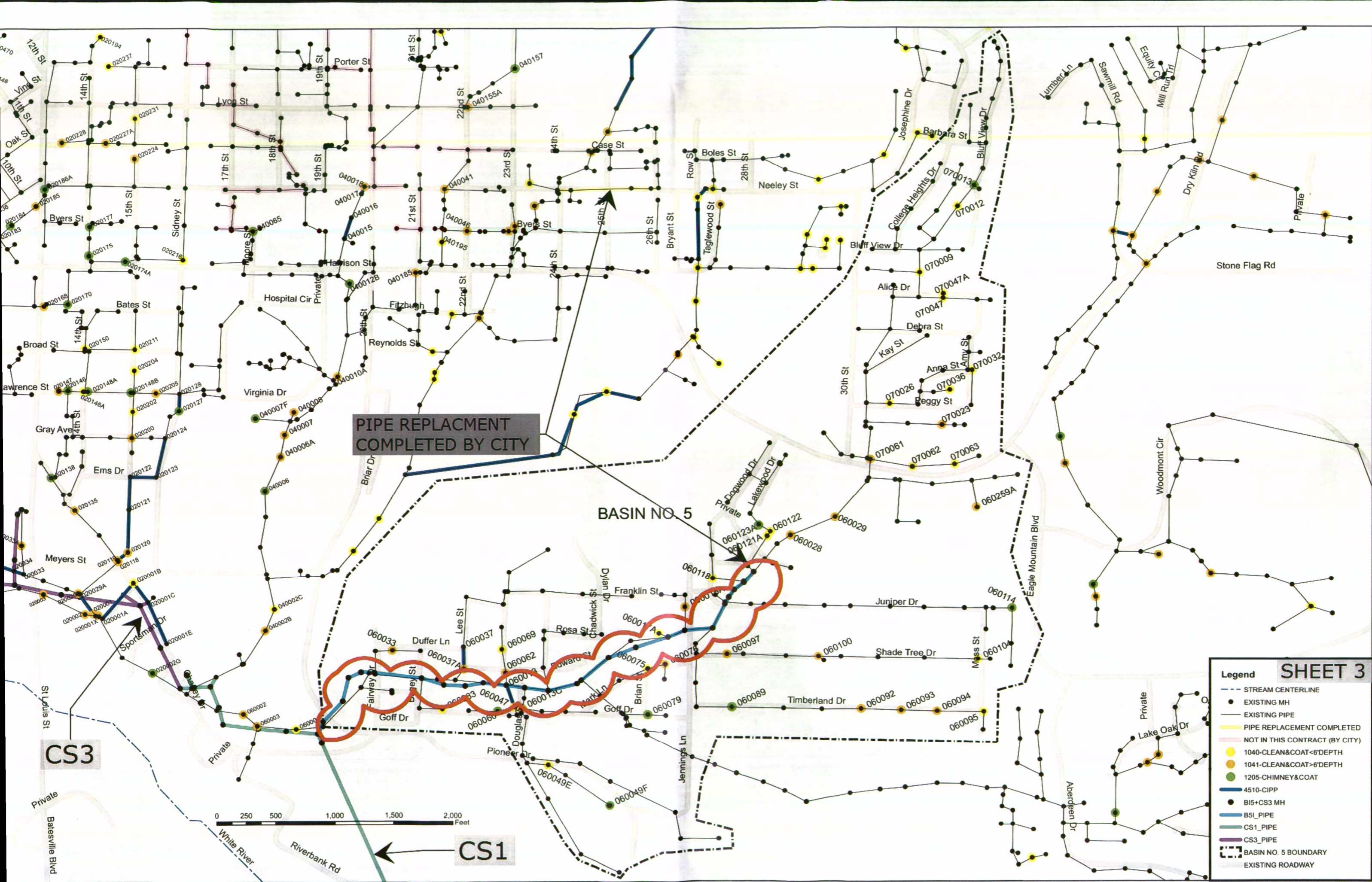
BASIN NO. U1

CS1 - TO WWTP NEW MAIN PUMP STATION

SHEET 2

- Legend**
- STREAM CENTERLINE
  - EXISTING MH
  - EXISTING PIPE
  - PIPE REPLACEMENT COMPLETED
  - NOT IN THIS CONTRACT (BY CITY)
  - 1040-CLEAN&COAT<6'DEPTH
  - 1041-CLEAN&COAT>6'DEPTH
  - 1205-CHIMNEY&COAT
  - 4510-CIPP
  - B15+CS3 MH
  - B51_PIPE
  - CS1_PIPE
  - CS3_PIPE
  - BASIN NO. U1 BOUNDARY
  - EXISTING ROADWAY



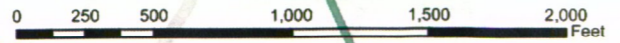


PIPE REPLACEMENT COMPLETED BY CITY

BASIN NO 5

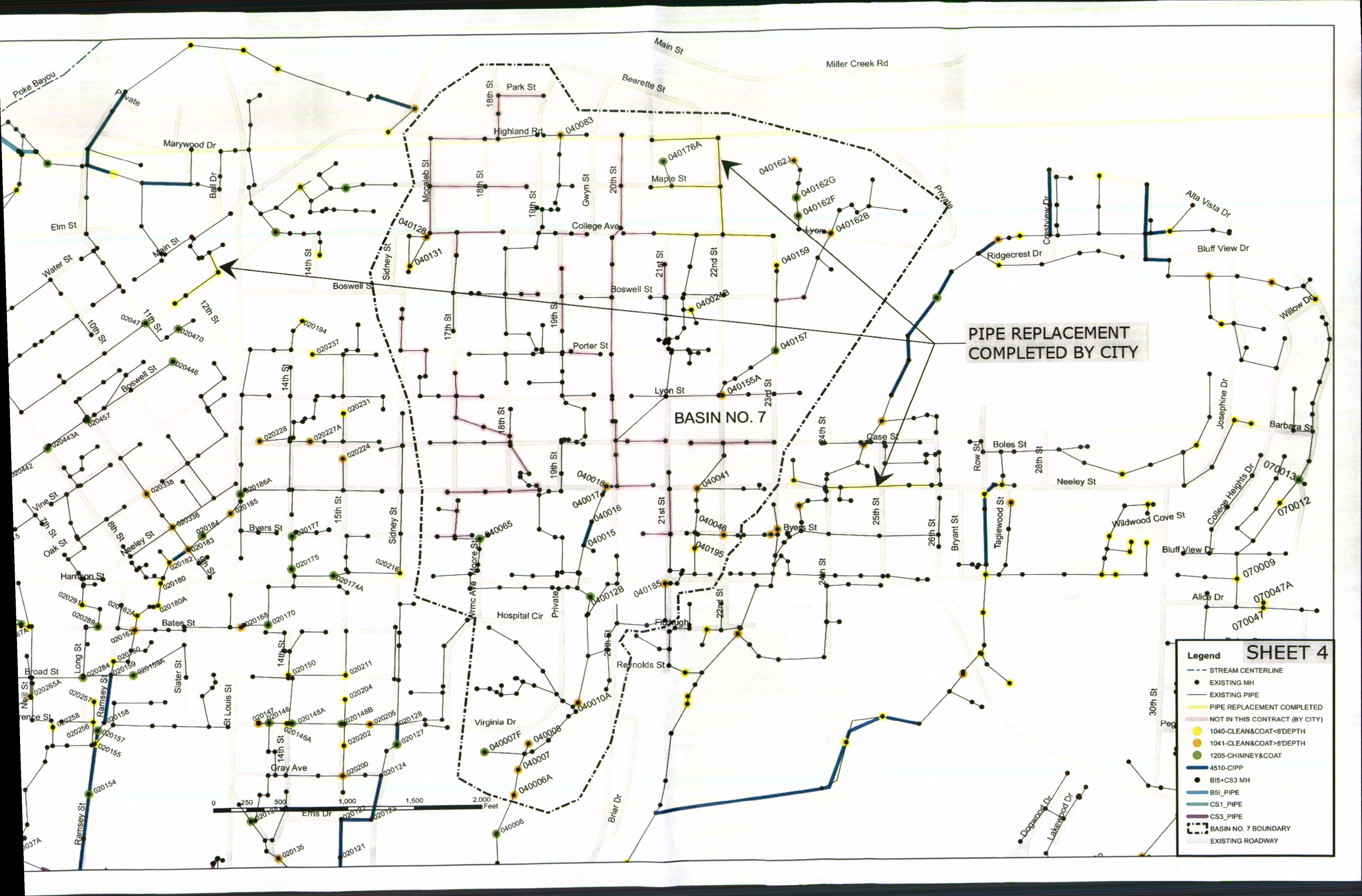
CS3

CS1



**Legend** **SHEET 3**

- STREAM CENTERLINE
- EXISTING MH
- EXISTING PIPE
- PIPE REPLACEMENT COMPLETED
- NOT IN THIS CONTRACT (BY CITY)
- 1040-CLEAN&COAT<6'DEPTH
- 1041-CLEAN&COAT>6'DEPTH
- 1205-CHIMNEY&COAT
- 4510-CIPP
- B15+CS3 MH
- B51_PIPE
- CS1_PIPE
- CS3_PIPE
- BASIN NO. 5 BOUNDARY
- EXISTING ROADWAY



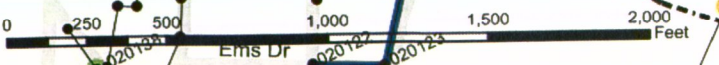
BASIN NO. 7

PIPE REPLACEMENT COMPLETED BY CITY

**Legend**

- STREAM CENTERLINE
- EXISTING MH
- EXISTING PIPE
- PIPE REPLACEMENT COMPLETED
- NOT IN THIS CONTRACT (BY CITY)
- 1040-CLEAN&COAT<6'DEPTH
- 1041-CLEAN&COAT>6'DEPTH
- 1205-CHIMNEY&COAT
- 4510-CIPP
- B15+CS3 MH
- B51_PIPE
- CS1_PIPE
- CS3_PIPE
- BASIN NO. 7 BOUNDARY
- EXISTING ROADWAY

**SHEET 4**



NEW INVERTED SIPHON

REHAB IN CLOUDED AREAS ELIMINATED BY NEW LINE WORK.

PIPE REPLACEMENT COMPLETED BY CITY

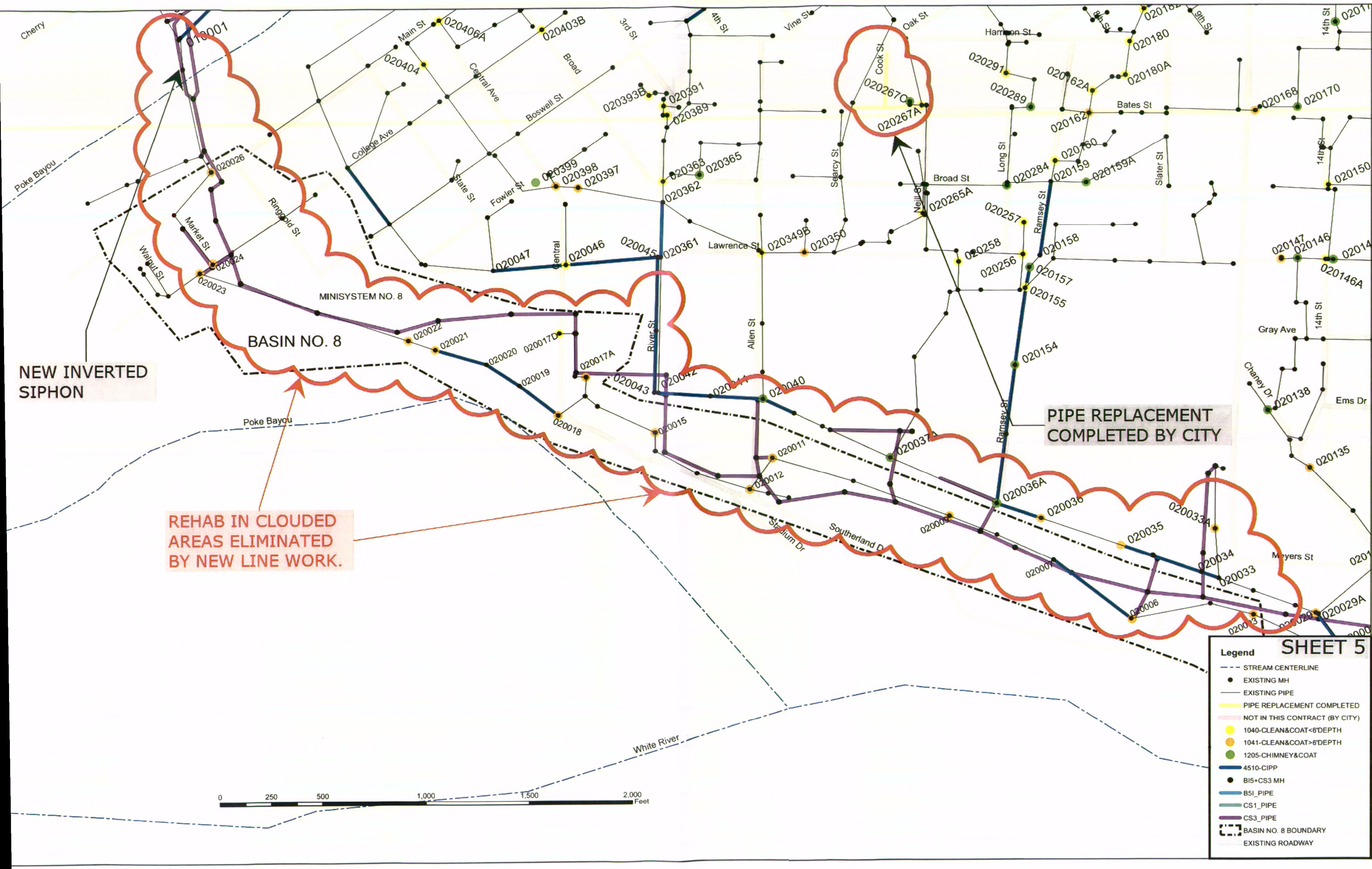
BASIN NO. 8

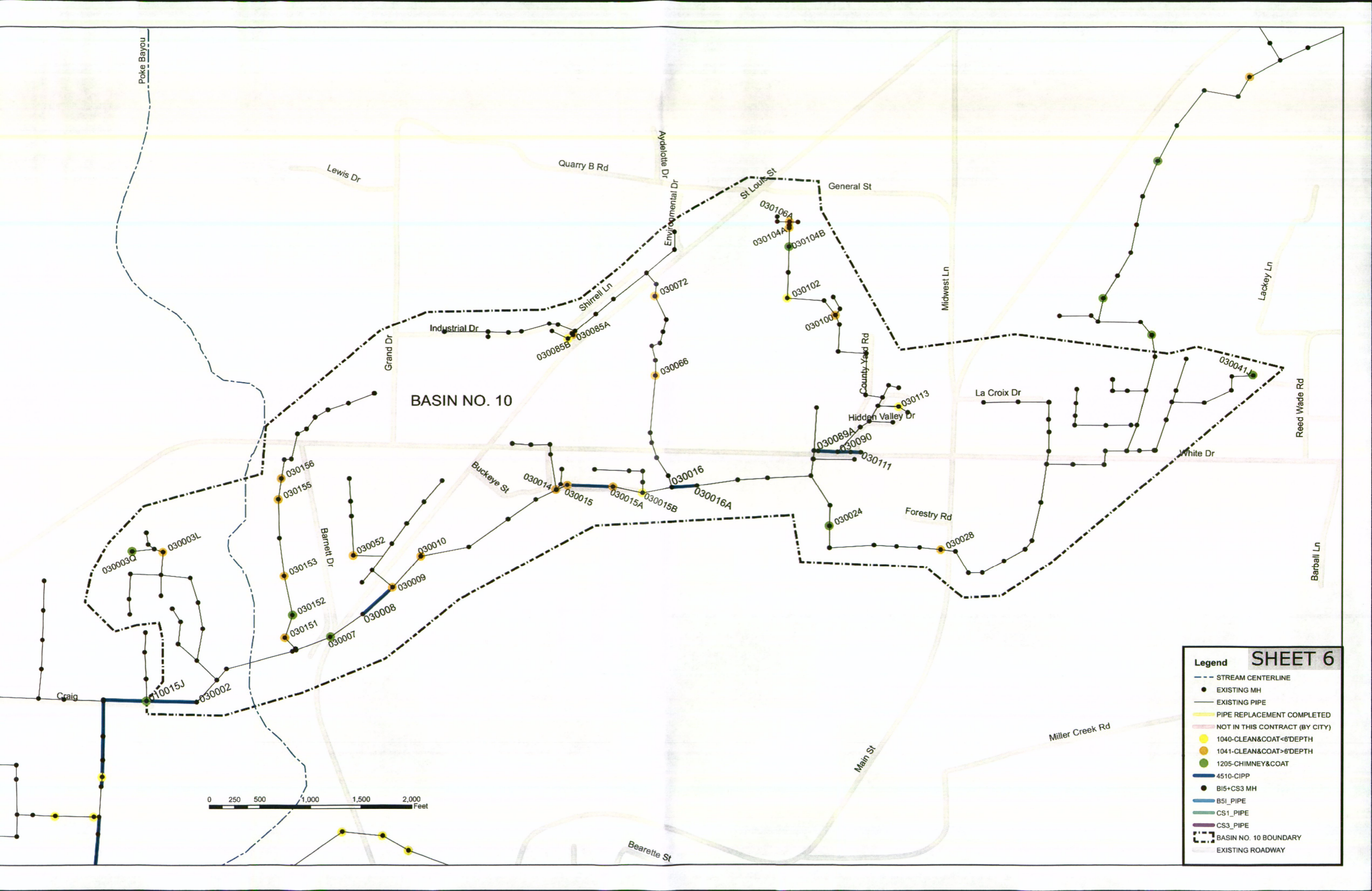
MINISYSTEM NO. 8

SHEET 5



- Legend**
- STREAM CENTERLINE
  - EXISTING MH
  - EXISTING PIPE
  - PIPE REPLACEMENT COMPLETED
  - NOT IN THIS CONTRACT (BY CITY)
  - 1040-CLEAN&COAT<6'DEPTH
  - 1041-CLEAN&COAT>6'DEPTH
  - 1205-CHIMNEY&COAT
  - 4510-CIPP
  - B15+CS3 MH
  - B5I_PIPE
  - CS1_PIPE
  - CS3_PIPE
  - BASIN NO. 8 BOUNDARY
  - EXISTING ROADWAY





BASIN NO. 10

SHEET 6

- Legend**
- STREAM CENTERLINE
  - EXISTING MH
  - EXISTING PIPE
  - PIPE REPLACEMENT COMPLETED
  - NOT IN THIS CONTRACT (BY CITY)
  - 1040-CLEAN&COAT<6'DEPTH
  - 1041-CLEAN&COAT>6'DEPTH
  - 1205-CHIMNEY&COAT
  - 4510-CIPP
  - B15+CS3 MH
  - B5I_PIPE
  - CS1_PIPE
  - CS3_PIPE
  - BASIN NO. 10 BOUNDARY
  - EXISTING ROADWAY



Poke Bayou

Lewis Dr

Quarry B Rd

Avdelotte Dr

St Louis St

General St

Midwest Ln

Lackey Ln

Reed Wade Rd

Barball Ln

La Croix Dr

White Dr

Forestry Rd

Miller Creek Rd

Main St

Beurette St

Craig

Barnett Dr

Buckeye St

Industrial Dr

Grand Dr

Shirrell Ln

030072

030106A

030104A

030104B

030102

030100

County Yard Rd

030113

Hidden Valley Dr

030089A

030090

030111

030085B

030085A

030066

030016

030015A

030015B

030016A

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030003Q

030003L

030153

030052

030010

030152

030009

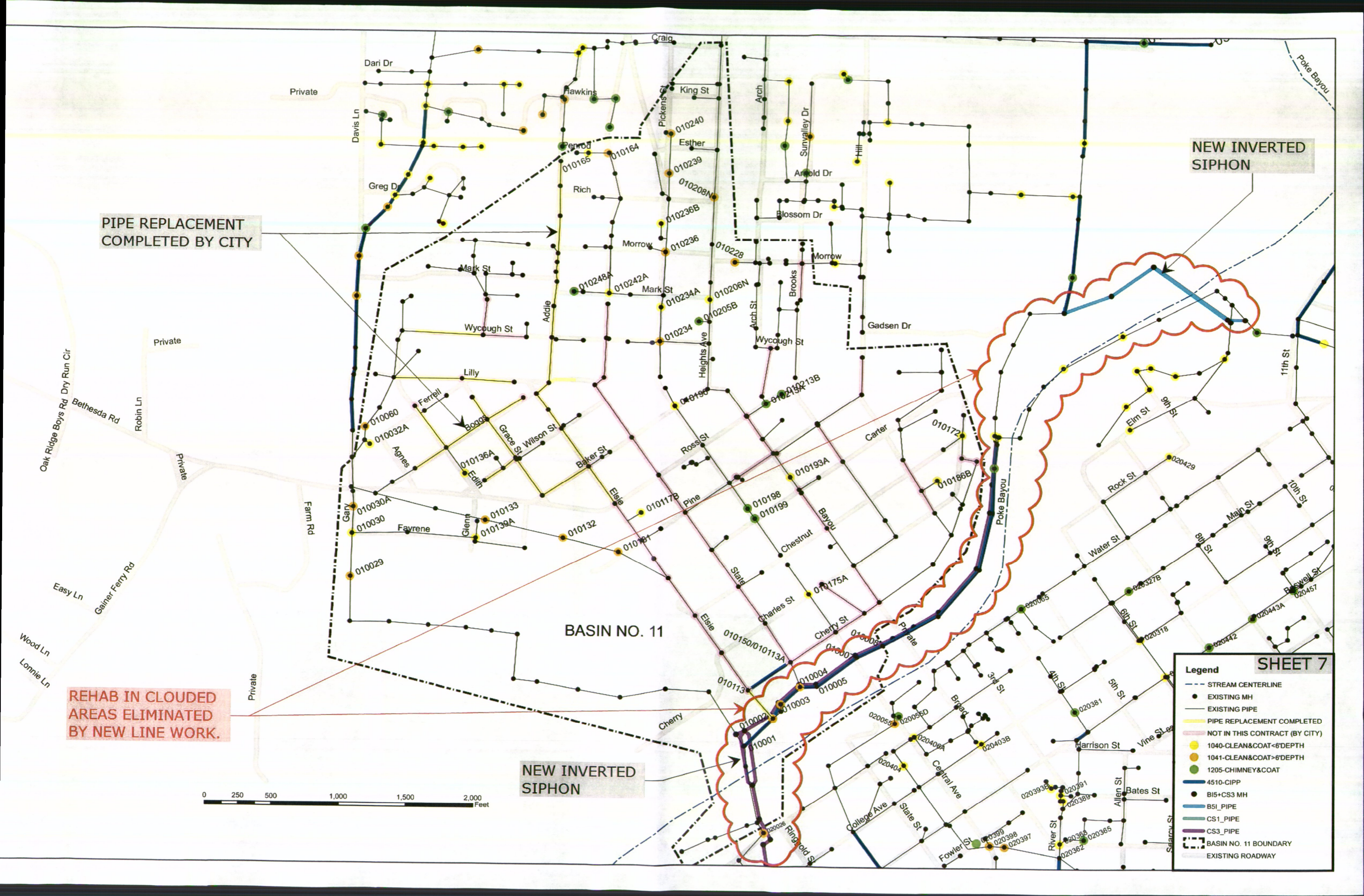
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030151

030007

030015J

030002



PIPE REPLACEMENT COMPLETED BY CITY

REHAB IN CLOUDED AREAS ELIMINATED BY NEW LINE WORK.

NEW INVERTED SIPHON

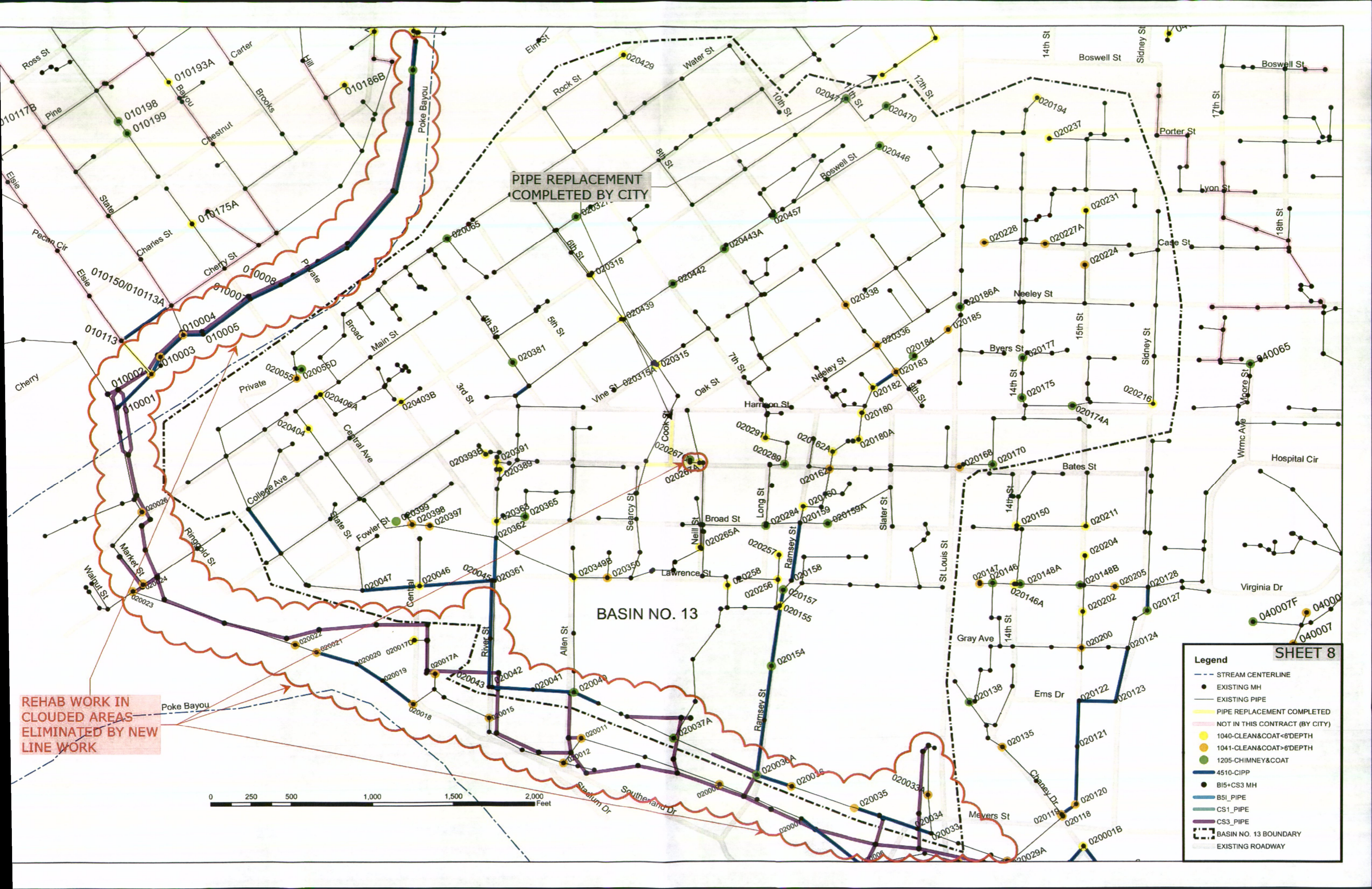
NEW INVERTED SIPHON

BASIN NO. 11

SHEET 7

- Legend**
- STREAM CENTERLINE
  - EXISTING MH
  - EXISTING PIPE
  - PIPE REPLACEMENT COMPLETED
  - NOT IN THIS CONTRACT (BY CITY)
  - 1040-CLEAN&COAT<6'DEPTH
  - 1041-CLEAN&COAT>6'DEPTH
  - 1205-CHIMNEY&COAT
  - 4510-CIPP
  - B15+CS3 MH
  - B5I_PIPE
  - CS1_PIPE
  - CS3_PIPE
  - BASIN NO. 11 BOUNDARY
  - EXISTING ROADWAY





PIPE REPLACEMENT  
COMPLETED BY CITY

REHAB WORK IN  
CLOUDED AREAS  
ELIMINATED BY NEW  
LINE WORK

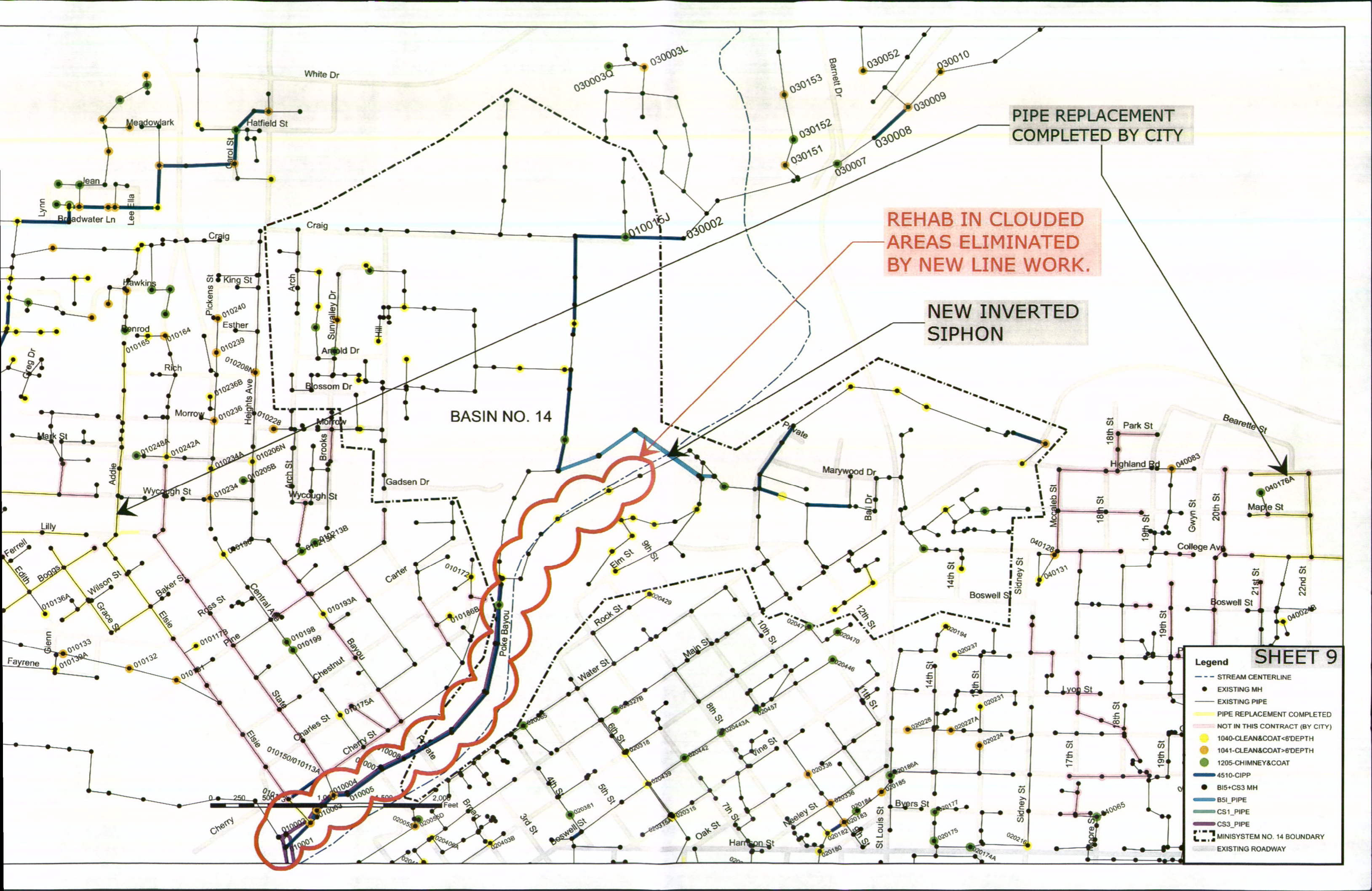
BASIN NO. 13



- Legend**
- STREAM CENTERLINE
  - EXISTING MH
  - EXISTING PIPE
  - PIPE REPLACEMENT COMPLETED
  - NOT IN THIS CONTRACT (BY CITY)
  - 1040-CLEAN&COAT-6'DDEPTH
  - 1041-CLEAN&COAT-6'DDEPTH
  - 1205-CHIMNEY&COAT
  - 4510-CIPP
  - B15+CS3 MH
  - BSI_PIPE
  - CS1_PIPE
  - CS3_PIPE
  - BASIN NO. 13 BOUNDARY
  - EXISTING ROADWAY

SHEET 8





PIPE REPLACEMENT  
COMPLETED BY CITY

REHAB IN CLOUDED  
AREAS ELIMINATED  
BY NEW LINE WORK.

NEW INVERTED  
SIPHON

BASIN NO. 14

SHEET 9

- Legend**
- STREAM CENTERLINE
  - EXISTING MH
  - EXISTING PIPE
  - PIPE REPLACEMENT COMPLETED
  - NOT IN THIS CONTRACT (BY CITY)
  - 1040-CLEAN&COAT<6"DEPTH
  - 1041-CLEAN&COAT>6"DEPTH
  - 1205-CHIMNEY&COAT
  - 4510-CIPP
  - B15+CS3 MH
  - B51_PIPE
  - CS1_PIPE
  - CS3_PIPE
  - MINISYSTEM NO. 14 BOUNDARY
  - EXISTING ROADWAY

**Table 1 - Private Service Line Rehabilitation Methods, Quantities & Summary of Work**

Private Lateral Rehabilitation	Occurrences	Responsible Party	Status	Estimated Cost
Rehab 3350: Disconnect Abandoned Service Line at Property Line	4	BWU	In Process	\$ 2,400
Rehab 3390: Disconnect Area Drain	2	BWU	In Process	\$ 1,300
Rehab 3360: Point Repair on Municipal Service Line	9	BWU	In Process	\$ 4,050
Rehab 3360: Point Repair on Private Service Line	53	Property Owner	In Process	\$ 24,450
Rehab 3340: Repair Broken Cleanout	86	BWU	Complete	\$ 21,900
Rehab 3330: Replace Missing Cleanout Cap	123	BWU	Complete	\$ 6,150
Rehab 3400: Replace Section of Service Line	11	Property Owner	In Process	\$ 8,640
Private Lateral Rehabilitation Sub-Total				\$ 68,890

**Table 2 - Manhole & Main Line Rehabilitation Methods, Quantities & Summary of Work Status**

Manhole Rehabilitation	Occurrences	Responsible Party	Status	Estimated Cost
Rehab 1001: Raise Manhole - Unpaved	28	BWU	Complete	\$ 11,200
Rehab 1002: Raise Manhole - Paved	3	BWU	Complete	\$ 1,800
Rehab 1010: Install Manhole Insert	701	BWU	Complete	\$ 133,190
Rehab 1015: Install Chimney Seal	10	BWU	6	\$ 5,000
Rehab 1020: Realign and Grout Casting - Unpaved	183	BWU	57	\$ 60,390
Rehab 1021: Realign and Grout Casting - Paved	36	BWU	27	\$ 19,080
Rehab 1022: Replace Manhole Ring & Cover -Unpaved	69	BWU	42	\$ 55,200
Rehab 1023: Replace Manhole Ring & Cover -Paved	4	BWU	Complete	\$ 4,000
Rehab 1024: Replace Manhole Lid	8	BWU	3	\$ 1,200
Rehab 1040: Clean Manhole, and Coat - < 6 feet deep	195	Contractor	¹	\$ 214,500
Rehab 1041: Clean Manhole, and Coat - > 6 feet deep	195	Contractor	¹	\$ 346,922
Rehab 1043: Repair Manhole Wall Lift Holes	60	BWU	18	\$ 30,000
Rehab 1047: Repair Manhole Pipe Seals	396	BWU	194	\$ 253,440
Rehab 1055: Remove Manhole Steps, Stop I/I and Repair	6	BWU	5	\$ 1,800
Rehab 1110: Repair Manhole Bench and Trough	76	BWU	39	\$ 43,320
Rehab 1205: Repair Manhole Chimney and Coat	111	Contractor	¹	\$ 66,600
Manhole Rehabilitation Sub-Total				\$ 1,247,642
Mainline Rehabilitation	Occurrences	Responsible Party	Status	Estimated Cost
Rehab 5010: Clean and CCTV	8	BWU	Complete	\$ 5,856
Rehab 5000: Clean Mainline	78	BWU	Complete	\$ 65,624
Rehab 4510: Cured In Place Lining or Replace	153	Contractor	¹	\$ 2,741,092
Rehab 4360: Point Repair	17	BWU		\$ 58,900
Rehab 4430: Replace Mainline	229	50-60% BWU	²	\$ 2,907,038
Other	2			\$ 18,926
Mainline Rehabilitation Sub-Total				\$ 5,797,436

**NOTES:**

1. Phase 1 of Sewer System Rehabilitation for Priority Basins U1, 13, 11, 7, 10, 5 & 8
2. Part by Contractor in Phase 2 Rehabilitation

**Table 3 Sewer Rehabilitation Summary for 2012, 2013 & 2014**

		2012	2013	2014	Total
4.	Total number of cleanouts repaired:	19	5	0	24
5.	Total number of service lines that need repaired:	1	0	0	1
5. a	Total footage of 4" service line replaced:	569	1,374	953	2,896
5. b	Total footage of 6" service line replaced:	105	0	3	108
6.	Total number of main line problems:	44	0	0	44
6. a	Total number of main line problems repaired:	44	0	0	44
6. b	Total footage of 6" main line repaired:	197	0	0	197
6. c	Total footage of 6" concrete main replaced by 6" PVC main:	18	681	2,080	2,779
6. d	Total footage of 6" main replaced by 8" main:	0	4,520	3,116	7,636
6. f	Total footage of 8" main line repaired:	733	0	0	733
6.h	Total footage of 8" PVC main line replaced by 8" PVC main	1,489	0	0	1,489
	Total footage of 8" main line replaced by 12" main line:	0	0	84	84
6.k	Total footage of 10" main line replaced by 12" main line:	0	28	488	516
7.	Total footage of main line video inspected:	55,881	23,962	18,286	98,129
7. a	Total footage of main line washed:	45,563	26,481	30,617	102,661
7. b	Total footage of main line rootsawed:	7,830	4,517	7,671	20,018
8.	Total number of manhole problems:	40	0	0	40
8. a	Total number of manholes repaired:	119	95	0	214
8. b	Total number of manholes cleaned:	22	0	0	22
8. c	Total number of manholes poured:	12	15	25	52
10	Total number of services that have been killed:	0	0	1	1
11	Total number Plastic Inserts (RainCatchers) installed:	134	49	4	187
11.a	Total number Stainless Steel Inserts (RainCatchers) Inst.:	162	0	0	162

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