

ADDENDUM NO. 1

TO: ALL PLAN HOLDERS

RE: Sewer System Improvements – City of Stephens, Arkansas

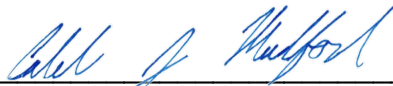
ADDENDUM DATE: October 23, 2024

The Plans, Specifications and Contract Documents for the above referenced project are hereby modified as follows:

1. **Bid Proposal: Remove and Replace Bid Proposal with attached.**
2. **Plan Set: Remove and Replace Plan Set with attached.**

ADDENDUM NO.1 ISSUED BY:

A.L. FRANKS ENGINEERING



Caleb Mudford, P.E.
Project Manager



10-23-24

**CITY OF STEPHENS, ARKANSAS
SEWER SYSTEM IMPROVEMENTS**

BID PROPOSAL

ITEM	QTY	UNIT	DESCRIPTION	UNIT PRICE	TOTAL PRICE
1	1	L.S.	Mobilization including preparatory work and operations, including but not limited to, movement of personnel, equipment, supplies, and incidentals to the project site for the lump sum price of _____ _____ Dollars and Cents/L.S.	\$ _____	\$ _____
2	28	E.A.	Demolition and removal of existing manholes and all associated appurtenances following all applicable ADEQ and ADH guidelines for the removal of manholes for the unit price of _____ _____ Dollars and Cents/EA	\$ _____	\$ _____

BID PROPOSAL CONTINUED

ITEM	QTY	UNIT	DESCRIPTION	UNIT PRICE	TOTAL PRICE
3	7300	L.F.	Demolition and removal of existing sewer main and all associated appurtenances following all applicable ADEQ and ADH guidelines for the removal of sewer main for the unit price of	\$ _____	\$ _____
			Dollars and Cents/L.F.		
4	80	L.F.	Abandonment and filling sewer main with flowable fill following all applicable Union Pacific Railroad, ADEQ and ADH guidelines for the abandonment of sewer mains for the unit price of	\$ _____	\$ _____
			Dollars and Cents/L.F.		

BID PROPOSAL CONTINUED

ITEM	QTY	UNIT	DESCRIPTION	UNIT PRICE	TOTAL PRICE
5	450	L.F.	Furnish & Install 8" SDR-26 PVC Sanitary Sewer Main, 0-6' deep per plans and specifications for the unit price of	\$ _____	\$ _____
			_____ Dollars and _____ Cents/L.F.		
6	850	L.F.	Furnish & Install 8" SDR-26 PVC Sanitary Sewer Main, 6-8' deep per plans and specifications for the unit price of	\$ _____	\$ _____
			_____ Dollars and _____ Cents/L.F.		

BID PROPOSAL CONTINUED

ITEM	QTY	UNIT	DESCRIPTION	UNIT PRICE	TOTAL PRICE
7	750	L.F.	Furnish & Install 8" SDR-26 PVC Sanitary Sewer Main, 8-10' deep per plans and specifications for the unit price of _____ Dollars and _____ Cents/L.F.	\$ _____	\$ _____
8	580	L.F.	Furnish & Install 8" SDR-26 PVC Sanitary Sewer Main, 10-12' deep per plans and specifications for the unit price of _____ Dollars and _____ Cents/L.F.	\$ _____	\$ _____

BID PROPOSAL CONTINUED

ITEM	QTY	UNIT	DESCRIPTION	UNIT PRICE	TOTAL PRICE
9	20	L.F.	Furnish & Install 8" SDR-26 PVC Sanitary Sewer Main, 12-14' deep per plans and specifications for the unit price of	\$ _____	\$ _____
			_____ Dollars and _____ Cents/L.F.		
10	50	L.F.	Furnish & Install 8" SDR-26 PVC Sanitary Sewer Main, 14-16' deep per plans and specifications for the unit price of	\$ _____	\$ _____
			_____ Dollars and _____ Cents/L.F.		

BID PROPOSAL CONTINUED

ITEM	QTY	UNIT	DESCRIPTION	UNIT PRICE	TOTAL PRICE
11	600	L.F.	Furnish & Install 10" SDR-26 PVC Sanitary Sewer Main, 0-6' deep per plans and specifications for the unit price of	\$ _____	\$ _____
			_____ Dollars and _____ Cents/L.F.		
12	1200	L.F.	Furnish & Install 10" SDR-26 PVC Sanitary Sewer Main, 6-8' deep per plans and specifications for the unit price of	\$ _____	\$ _____
			_____ Dollars and _____ Cents/L.F.		

BID PROPOSAL CONTINUED

ITEM	QTY	UNIT	DESCRIPTION	UNIT PRICE	TOTAL PRICE
13	480	L.F.	Furnish & Install 10" SDR-26 PVC Sanitary Sewer Main, 8-10' deep per plans and specifications for the unit price of	\$ _____	\$ _____
			_____ Dollars and _____ Cents/L.F.		
14	710	L.F.	Furnish & Install 10" SDR-26 PVC Sanitary Sewer Main, 10-12' deep per plans and specifications for the unit price of	\$ _____	\$ _____
			_____ Dollars and _____ Cents/L.F.		

BID PROPOSAL CONTINUED

ITEM	QTY	UNIT	DESCRIPTION	UNIT PRICE	TOTAL PRICE
15	80	L.F.	Furnish & Install 10" SDR-26 PVC Sanitary Sewer Main, 12-14' deep per plans and specifications for the unit price of _____ _____ Dollars and Cents/L.F.	\$ _____	\$ _____
16	1260	L.F.	Furnish & Install 12" SDR-26 PVC Sanitary Sewer Main, 0-6' deep per plans and specifications for the unit price of _____ _____ Dollars and Cents/L.F.	\$ _____	\$ _____

BID PROPOSAL CONTINUED

ITEM	QTY	UNIT	DESCRIPTION	UNIT PRICE	TOTAL PRICE
17	80	L.F.	Furnish & Install 12" SDR-26 PVC Sanitary Sewer Main, 8-10' deep per plans and specifications for the unit price of	\$ _____	\$ _____
			_____ Dollars and _____ Cents/L.F.		
18	80	L.F.	Furnish & Install 12" SDR-26 PVC Sanitary Sewer Main, 10-12' deep per plans and specifications for the unit price of	\$ _____	\$ _____
			_____ Dollars and _____ Cents/L.F.		

BID PROPOSAL CONTINUED

ITEM	QTY	UNIT	DESCRIPTION	UNIT PRICE	TOTAL PRICE
19	80	L.F.	Furnish & Install 12" SDR-26 PVC Sanitary Sewer Main, 12-14' deep per plans and specifications for the unit price of	\$ _____	\$ _____
			Dollars and Cents/L.F.		
20	80	L.F.	Furnish & Install 12" SDR-26 PVC Sanitary Sewer Main, 14-16' deep per plans and specifications for the unit price of	\$ _____	\$ _____
			Dollars and Cents/L.F.		

BID PROPOSAL CONTINUED

ITEM	QTY	UNIT	DESCRIPTION	UNIT PRICE	TOTAL PRICE
21	90	L.F.	Bore & Encase on grade 10" sanitary sewer with 18" X .375" epoxy coated steel encasement, with vent pipes and sealed ends per Union Pacific Railroad requirements and per plans and specifications for the unit price of _____ Dollars and _____ Cents/L.F.	\$ _____	\$ _____
22	60	L.F.	Provide and install 12" DIP (Aerial Crossing) gravity sewer main including all materials, labor and equipment as required in accordance with the plans and specifications for the unit price of _____ Dollars and _____ Cents/L.F.	\$ _____	\$ _____

BID PROPOSAL CONTINUED

ITEM	QTY	UNIT	DESCRIPTION	UNIT PRICE	TOTAL PRICE
23	1,000	C.Y.	Provide and install gravel embedment when unfavorable soil conditions are encountered as approved by Engineer including all labor, hauling, materials, compaction, and incidentals required as needed and described in the plans and specifications for the unit price of _____ Dollars and _____ Cents/C.Y.	\$ _____	\$ _____
24	29	EA	Furnish & Install 4' Dia. Concrete Manholes per plans and specifications for the unit price of (To include tie-ins of all mains at that location) _____ Dollars and _____ Cents/EA	\$ _____	\$ _____

BID PROPOSAL CONTINUED

ITEM	QTY	UNIT	DESCRIPTION	UNIT PRICE	TOTAL PRICE
25	70	V.F.	Furnish & Install Extra Depth Manholes per plans and specifications for the unit price of	\$ _____	\$ _____
			_____ Dollars and _____ Cents/V.F.		
26	1	EA	Furnish & Install Drop Connection per plans and specifications for the unit price of	\$ _____	\$ _____
			_____ Dollars and _____ Cents/EA		

BID PROPOSAL CONTINUED

ITEM	QTY	UNIT	DESCRIPTION	UNIT PRICE	TOTAL PRICE
27	1100	L.F.	Open Cut and Repair Asphalt Surface per plans and specifications for the unit price of	\$ _____	\$ _____
			_____ Dollars and _____ Cents/L.F.		
28	50	L.F.	Open Cut and Concrete Surface per plans and specifications for the unit price of	\$ _____	\$ _____
			_____ Dollars and _____ Cents/L.F.		

BID PROPOSAL CONTINUED

ITEM	QTY	UNIT	DESCRIPTION	UNIT PRICE	TOTAL PRICE
29	50	L.F.	Open Cut and Gravel Surface per plans and specifications for the unit price of	\$ _____	\$ _____
			_____ Dollars and _____ Cents/L.F.		
30	8	EA	Tie-in 8" Sewer main to existing manhole per plans and specifications for the unit price of	\$ _____	\$ _____
			_____ Dollars and _____ Cents/EA		

BID PROPOSAL CONTINUED

ITEM	QTY	UNIT	DESCRIPTION	UNIT PRICE	TOTAL PRICE
31	2	EA	Tie-in 10" Sewer main to existing manhole per plans and specifications for the unit price of	\$ _____	\$ _____
			_____ Dollars and _____ Cents/EA		
32	1	EA	Tie-in 12" Sewer main to existing manhole per plans and specifications for the unit price of	\$ _____	\$ _____
			_____ Dollars and _____ Cents/EA		
33	10	EA	Re-connect Existing Short Side Sewer Service to new main per plans and specifications for the unit price of	\$ _____	\$ _____
			_____ Dollars and _____ Cents/EA		

BID PROPOSAL CONTINUED

ITEM	QTY	UNIT	DESCRIPTION	UNIT PRICE	TOTAL PRICE
34	5	EA	Re-connect Existing Long Side Sewer Service to new main Including long side bore and service line per plans and specifications for the unit price of _____ _____ Dollars and Cents/EA	\$ _____	\$ _____
35	1	L.S.	Provide Trench Safety per Technical Specifications for the lump sum price of _____ _____ Dollars and Cents/L.S	\$ _____	\$ _____

BID PROPOSAL CONTINUED

ITEM	QTY	UNIT	DESCRIPTION	UNIT PRICE	TOTAL PRICE
36	1	L.S.	Provide all equipment and material for Testing Sewer Mains and Manholes per plans and specifications for the unit price of _____ Dollars and _____ Cents/L.S.	\$ _____	\$ _____
37	1	L.S.	Furnish and install traffic control devices, including but not limited to, installing, maintaining, and removing traffic control devices according to the plans and specifications for the lump sum price of _____ Dollars and _____ Cents/L.S.	\$ _____	\$ _____

BID PROPOSAL CONTINUED

ITEM	QTY	UNIT	DESCRIPTION	UNIT PRICE	TOTAL PRICE
38	1	L.S.	Provide any and all necessary insurance, flagging, inspection, mobilization and any other items required by Union Pacific Railroad for the installation of sewer main by bore and abandonment of existing main beneath the railroad as shown in the plans for the lump sum price of _____ _____ Dollars and Cents/L.S.	\$ _____	\$ _____
39	1	L.S.	Provide and install erosion control measures as shown on the erosion control plan including silt fencing, rock berm, seeding, construction entrance and other controls as necessary to limit erosion throughout the project and establish a minimum of 70% permanent vegetation for the lump sum price of _____ _____ Dollars and Cents/L.S.	\$ _____	\$ _____
TOTAL BASE BID				\$ _____	

BID PROPOSAL CONTINUED

DEDUCTIVE ALTERNATE #1

ITEM	QTY	UNIT	DESCRIPTION	UNIT PRICE	TOTAL PRICE
1	2	L.F.	<u>REDUCE Item 2:</u> Demolition and removal of existing manholes and all associated appurtenances following all applicable ADEQ and ADH guidelines for the removal of manholes for the unit price of _____ Dollars and _____ Cents/L.F.	\$ _____	\$ _____
2	548	L.F.	<u>REDUCE Item 3:</u> Demolition and removal of existing sewer main and all associated appurtenances following all applicable ADEQ and ADH guidelines for the removal of sewer main for the unit price of _____ Dollars and _____ Cents/L.F.	\$ _____	\$ _____

BID PROPOSAL CONTINUED

DEDUCTIVE ALTERNATE #1

ITEM	QTY	UNIT	DESCRIPTION	UNIT PRICE	TOTAL PRICE
3	224	L.F.	<u>REDUCE Item 7:</u> 8" SDR-26 PVC Sanitary Sewer Main, 8-10' deep per plans and specifications for the unit price of _____ Dollars and _____ Cents/L.F.	\$ _____	\$ _____
4	324	L.F.	<u>REDUCE Item 8:</u> 8" SDR-26 PVC Sanitary Sewer Main, 10-12' deep per plans and specifications for the unit price of _____ Dollars and _____ Cents/L.F.	\$ _____	\$ _____

BID PROPOSAL CONTINUED

DEDUCTIVE ALTERNATE #1

ITEM	QTY	UNIT	DESCRIPTION	UNIT PRICE	TOTAL PRICE
5	50	C.Y.	REDUCE Item 23: Gravel Pipe Foundation material for unsuitable subgrade materials (use as directed by the Engineer) per plans and specifications for the unit price of	\$ _____	\$ _____
			_____ Dollars and _____ Cents/C.Y.		
6	2	EA	REDUCE Item 24: 4' Dia. Concrete Manholes per plans and specifications for the unit price of (To include tie-ins of all mains at that location)	\$ _____	\$ _____
			_____ Dollars and _____ Cents/EA		

BID PROPOSAL CONTINUED

DEDUCTIVE ALTERNATE #1

ITEM	QTY	UNIT	DESCRIPTION	UNIT PRICE	TOTAL PRICE
7	8	V.F.	<u>REDUCE Item 25:</u> Extra Depth Manholes per plans and specifications for the unit price of _____ Dollars and _____ Cents/V.F.	\$ _____	\$ _____
8	360	L.F.	<u>REDUCE Item 27:</u> Open Cut and Repair Asphalt Surface per plans and specifications for the unit price of _____ Dollars and _____ Cents/L.F.	\$ _____	\$ _____
TOTAL DEDUCTIVE ALTERNATE #1				\$ _____	

BID PROPOSAL CONTINUED

DEDUCTIVE ALTERNATE #2

ITEM	QTY	UNIT	DESCRIPTION	UNIT PRICE	TOTAL PRICE
1	4	L.F.	<u>REDUCE Item 2:</u> Demolition and removal of existing manholes and all associated appurtenances following all applicable ADEQ and ADH guidelines for the removal of manholes for the unit price of _____ _____ Dollars and Cents/L.F.	\$ _____	\$ _____
2	534	L.F.	<u>REDUCE Item 3:</u> Demolition and removal of existing sewer main and all associated appurtenances following all applicable ADEQ and ADH guidelines for the removal of sewer main for the unit price of _____ _____ Dollars and Cents/L.F.	\$ _____	\$ _____

BID PROPOSAL CONTINUED

DEDUCTIVE ALTERNATE #2

ITEM	QTY	UNIT	DESCRIPTION	UNIT PRICE	TOTAL PRICE
3	284	L.F.	<u>REDUCE Item 6:</u> 8" SDR-26 PVC Sanitary Sewer Main, 6-8' deep per plans and specifications for the unit price of _____ Dollars and _____ Cents/L.F.	\$ _____	\$ _____
4	250	L.F.	<u>REDUCE Item 7:</u> 8" SDR-26 PVC Sanitary Sewer Main, 8-10' deep per plans and specifications for the unit price of _____ Dollars and _____ Cents/L.F.	\$ _____	\$ _____

BID PROPOSAL CONTINUED

DEDUCTIVE ALTERNATE #2

ITEM	QTY	UNIT	DESCRIPTION	UNIT PRICE	TOTAL PRICE
5	50	C.Y.	REDUCE Item 23: Gravel Pipe Foundation material for unsuitable subgrade materials (use as directed by the Engineer) per plans and specifications for the unit price of _____ _____ Dollars and Cents/C.Y.	\$ _____	\$ _____
6	4	EA	REDUCE Item 24: 4' Dia. Concrete Manholes per plans and specifications for the unit price of (To include tie-ins of all mains at that location) _____ _____ Dollars and Cents/EA	\$ _____	\$ _____

BID PROPOSAL CONTINUED

DEDUCTIVE ALTERNATE #2

ITEM	QTY	UNIT	DESCRIPTION	UNIT PRICE	TOTAL PRICE
7	7	V.F.	<u>REDUCE Item 25:</u> Extra Depth Manholes per plans and specifications for the unit price of _____ Dollars and _____ Cents/V.F.	\$ _____	\$ _____
8	360	L.F.	<u>REDUCE Item 27:</u> Open Cut and Repair Asphalt Surface per plans and specifications for the unit price of _____ Dollars and _____ Cents/L.F.	\$ _____	\$ _____
TOTAL DEDUCTIVE ALTERNATE #2				\$ _____	

BID PROPOSAL CONTINUED

DEDUCTIVE ALTERNATE #3

ITEM	QTY	UNIT	DESCRIPTION	UNIT PRICE	TOTAL PRICE
1	4	L.F.	<u>REDUCE Item 2:</u> Demolition and removal of existing manholes and all associated appurtenances following all applicable ADEQ and ADH guidelines for the removal of manholes for the unit price of _____ _____ Dollars and Cents/L.F.	\$ _____	\$ _____
2	534	L.F.	<u>REDUCE Item 3:</u> Demolition and removal of existing sewer main and all associated appurtenances following all applicable ADEQ and ADH guidelines for the removal of sewer main for the unit price of _____ _____ Dollars and Cents/L.F.	\$ _____	\$ _____

BID PROPOSAL CONTINUED

DEDUCTIVE ALTERNATE #3

ITEM	QTY	UNIT	DESCRIPTION	UNIT PRICE	TOTAL PRICE
3	284	L.F.	<u>REDUCE Item 12:</u> 10" SDR-26 PVC Sanitary Sewer Main, 6-8' deep per plans and specifications for the unit price of _____ Dollars and _____ Cents/L.F.	\$ _____	\$ _____
4	250	L.F.	<u>REDUCE Item 13:</u> 10" SDR-26 PVC Sanitary Sewer Main, 8-10' deep per plans and specifications for the unit price of _____ Dollars and _____ Cents/L.F.	\$ _____	\$ _____

BID PROPOSAL CONTINUED

DEDUCTIVE ALTERNATE #3

ITEM	QTY	UNIT	DESCRIPTION	UNIT PRICE	TOTAL PRICE
5	50	C.Y.	REDUCE Item 23: Gravel Pipe Foundation material for unsuitable subgrade materials (use as directed by the Engineer) per plans and specifications for the unit price of	\$ _____	\$ _____
			_____ Dollars and _____ Cents/C.Y.		
6	4	EA	REDUCE Item 24: 4' Dia. Concrete Manholes per plans and specifications for the unit price of (To include tie-ins of all mains at that location)	\$ _____	\$ _____
			_____ Dollars and _____ Cents/EA		

BID PROPOSAL CONTINUED

DEDUCTIVE ALTERNATE #3

ITEM	QTY	UNIT	DESCRIPTION	UNIT PRICE	TOTAL PRICE
7	8	V.F.	<u>REDUCE Item 25:</u> Extra Depth Manholes per plans and specifications for the unit price of _____ Dollars and _____ Cents/V.F.	\$ _____	\$ _____
8	40	L.F.	<u>REDUCE Item 27:</u> Open Cut and Repair Asphalt Surface per plans and specifications for the unit price of _____ Dollars and _____ Cents/L.F.	\$ _____	\$ _____
TOTAL DEDUCTIVE ALTERNATE #3				\$ _____	

BID PROPOSAL CONTINUED

TOTAL BASE BID \$ _____

TOTAL BASE BID LESS DEDUCTIVE ALTERNATE #1 \$ _____

TOTAL BASE BID LESS DEDUCTIVE ALTERNATE #1 AND #2 \$ _____

TOTAL BASE BID LESS DEDUCTIVE ALTERNATE #1, #2, AND #3 \$ _____

NOTES:

Miscellaneous items, directed work, connections, etc., not specifically listed but required to complete the proposed sewer main line work, and lift station to a complete and operational system shall be included in the Bid under the most appropriate Bid Item. ***Contractor is to verify all pipe size and flow line elevations prior to ordering manholes.

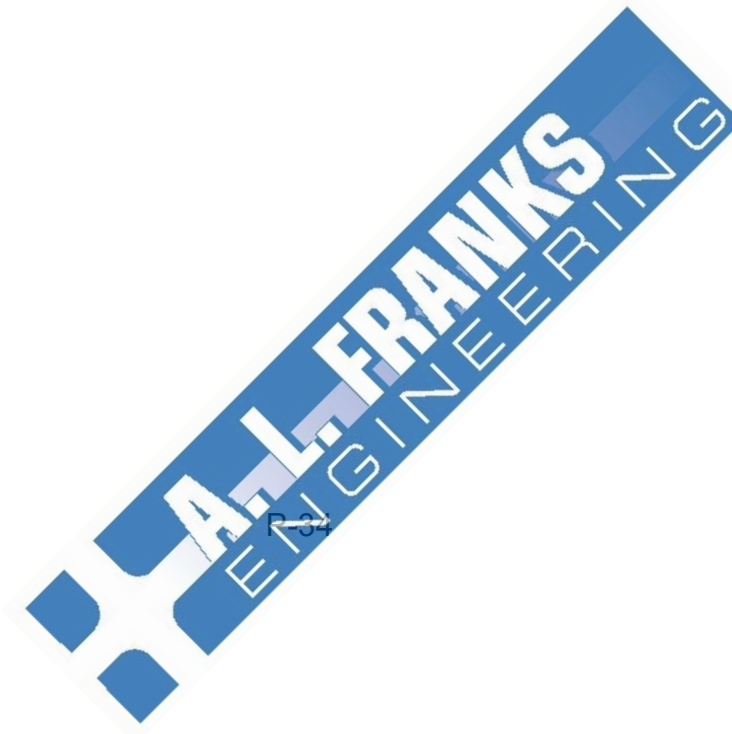
Contractor shall submit bids and hold price for a period of no more than 60 days from the bid opening. All work shall be done in accordance with ADEQ, ADH & Union Pacific Railroad requirements.

Items that are subsidiary to performing the work shall include all labor, equipment, and materials shall be supplied by the contractor. Existing utilities and improvements shall be protected during construction and contractor shall coordinate with City of Stephens Utility Department for connections to existing sewer main. Protection measures shall be approved by the engineer prior to construction.

Haul routes approved designated by the city shall be restored to original conditions upon completion of the work. This area is not included in seeding / revegetation and shall be considered subsidiary to the work.

METHOD TO DETERMINE

The lowest bid shall be the lowest bid price on the base contract, depending upon available funds, without consideration of the prices on the additive or deductive items. If all base bids submitted exceed the amount appropriated for the award of the contract, then the owner will determine the apparent responsible low bidder by deducting each alternate, in numerical order, from the total base bid.

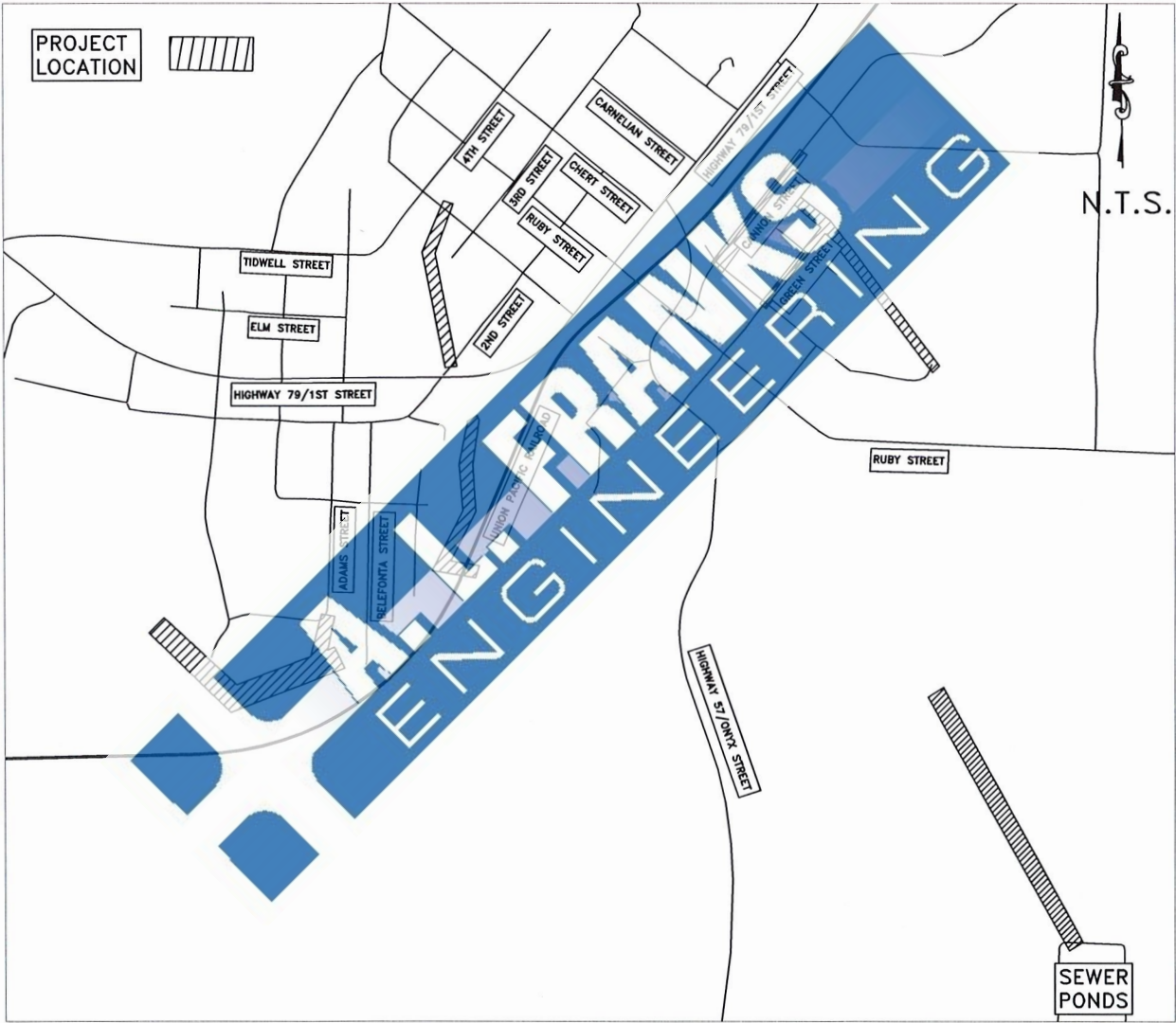


CITY OF STEPHENS

SEWER SYSTEM IMPROVEMENTS

STEPHENS, AR

ST-01-24



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BEFORE CONSTRUCTION BEGINS
GIVE 48 HOURS NOTICE
FOR UNDERGROUND UTILITY LOCATIONS
CALL: THE ARKANSAS ONE-CALL SYSTEM 1-800-482-8998



118 E. Broad Street
Texarkana, Arkansas 71854
Phone (870) 216-1906
Fax (870) 216-1907



Caleb J. Mudford

CALEB J. MUDFORD, P.E. PROJECT ENGINEER DATE 9-9-24

Kiron S. Browning

KIRON S. BROWNING, P.E. PROJECT REVIEWER DATE 9/9/24

CLIENT
CITY OF STEPHENS, AR

GRAVITY SEWER CONSTRUCTION NOTES

- 1) SEWER MAINS SHALL BE CONSTRUCTED UTILIZING A LASER WITH GRADE ESTABLISHED THROUGH SEWER PIPE.
- 2) CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE TO EXISTING STRUCTURES, PIPING, CONDUIT ETC.. RESULTING FROM CONSTRUCTION WHETHER SHOWN ON THESE DRAWINGS OR NOT.
- 3) CONTRACTOR SHALL PERFORM FINISH GRADING, AND TOP SOILING AND ESTABLISH GRASS IN ALL DISTURBED AREAS PER PLANS AND SPECIFICATIONS
- 4) ALL PROPOSED SEWER MAIN LINES AND MANHOLES TO BE TESTED PER SPECIFICATIONS.
- 5) SEWER MAIN LINES SHALL MAINTAIN A 10’ SEPARATION WHEN PARALLELING A WATER LINE. WHEN CROSSING A WATER LINE THE SEWER MAIN SHALL BE 18” BELOW THE WATER LINE AND SHALL CROSS SAID WATER LINE WITH A FULL JOINT OF PIPE CENTERED UNDER THE WATER LINE. IF 18” SEPERATION IS IMPOSSIBLE THE SEWER MAIN SHALL BE ENCASED IN WATER TIGHT STEEL ENCASEMENT. WHEN A WATER LINE MUST BE UNAVOIDABLE PASS BENEATH A SEWER LINE, AT LEAST 18” SEPARATION MUST BE MAINTAINED BETWEEN THE OUTSIDE OF THE TWO PIPES IN ADDITION TO THE ENCASEMENT REQUIREMENT. ALL REQUIREMENTS IN ARKANSAS RULES PERTAINING TO PUBLIC WATER SYSTEMS SHALL BE FOLLOWED.
- 6) CONTRACTOR SHALL HAVE UTILITIES LOCATED AND SHALL BE RESPONSIBLE FOR DAMAGE TO ALL UTILITIES ARISING FROM CONTRACTOR’S WORK, REGARDLESS OF BEING SHOWN OR OMITTED FROM THESE DRAWINGS. SHOWN UTILITIES ARE INDICATED IN APPROX. LOCATIONS ONLY.
- 7) ALL DEBRIS SHALL BE DISPOSED OF AT THE CONTRACTOR’S EXPENSE. BURNING OR BURYING DEBRIS ON SITE IS PROHIBITED UNLESS APPROVED BY THE ENGINEER.
- 8) CONTRACTOR SHALL RESTRICT ALL OPERATIONS TO INSIDE OF CONSTRUCTION EASEMENT AND STREET R.O.W. ACCESS TO PRIVATE EASEMENTS SHALL BE THE CONTRACTOR’S RESPONSIBILITY. PROPERTY OWNERS SHALL BE NOTIFIED 24-HOURS PRIOR TO ENTRY. ANY DAMAGE TO PRIVATE PROPERTY SHALL BE REPLACED TO THE PROPERTY OWNER’S APPROVAL AT THE CONTRACTOR’S EXPENSE.
- 9) CONTRACTOR SHALL EXPOSE EXISTING UTILITIES IN ADVANCE OF CONSTRUCTION. GRADE ADJUSTMENTS SHALL BE MADE BY THE ENGINEER. COSTS ASSOCIATED w/ NOT EXPOSING EXISTING UTILITIES TO ALLOW GRADE ADJUSTMENT SHALL BE BORNE BY CONTRACTOR.
- 10) SEWER MAIN SHALL BE SDR-26 HEAVYWALL PVC PIPE UNLESS OTHERWISE NOTED ON THE PLANS.
- 11) WHEN TIE-INS TO EXISTING MANHOLES ARE TO BE MADE, CONTRACTOR SHALL VERIFY MANHOLE FLOW LINE AT AN INTERVAL PRIOR TO MANHOLE TO ENSURE ADEQUATE DEPTH OF NEW SEWER MAIN.
- 12) SEWER MAIN REPLACEMENT IS IN-PLACE OF EXISTING MAIN. PLUGGING AND BYPASS PUMPING SHALL BE SUBSIDIARY TO REPLACEMENT.
- 13) SERVICE CONNECTIONS SHALL BE REPLACED AND INCLUDE UP TO 10 FEET OF SERVICE PIPE.
- 14) ALL SEWER LINES SHALL BE IDENTIFIED BY APPROPRIATE MARKING TAPE BURIED WITH THE PIPE.
- 15) ALL EXISTING SEWER LINES AND MANHOLES ARE TO BE REMOVED UNLESS NOTED OTHERWISE IN THE PLANS.

LEGEND

	SIGNAL POLE		TELEPHONE BOX
	POWER POLE		SIGN
	LIGHT POLE		SANITARY SEWER
	UTILITY RISER/TRANSFORMER		SANITARY SEWER BYPASS
	EX. WATER METER		EXIST. 2” WATER MAIN
	EX. SANITARY SEWER MANHOLE		EXIST. 4” WATER MAIN
	PROP. SANITARY SEWER MANHOLE		EXIST. 6” WATER MAIN
	GAS METER		EXIST. 8” WATER MAIN
			O.H. POWER LINE

9-30-24	REVISED PER ADH	CJM
Date	Revision	By

Designed	CJM
Checked	KSB
Drawn	CJM
Approved	KSB

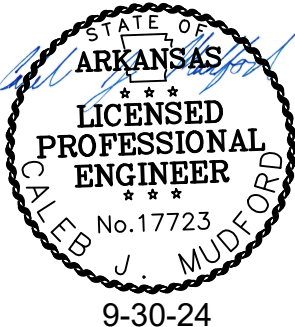


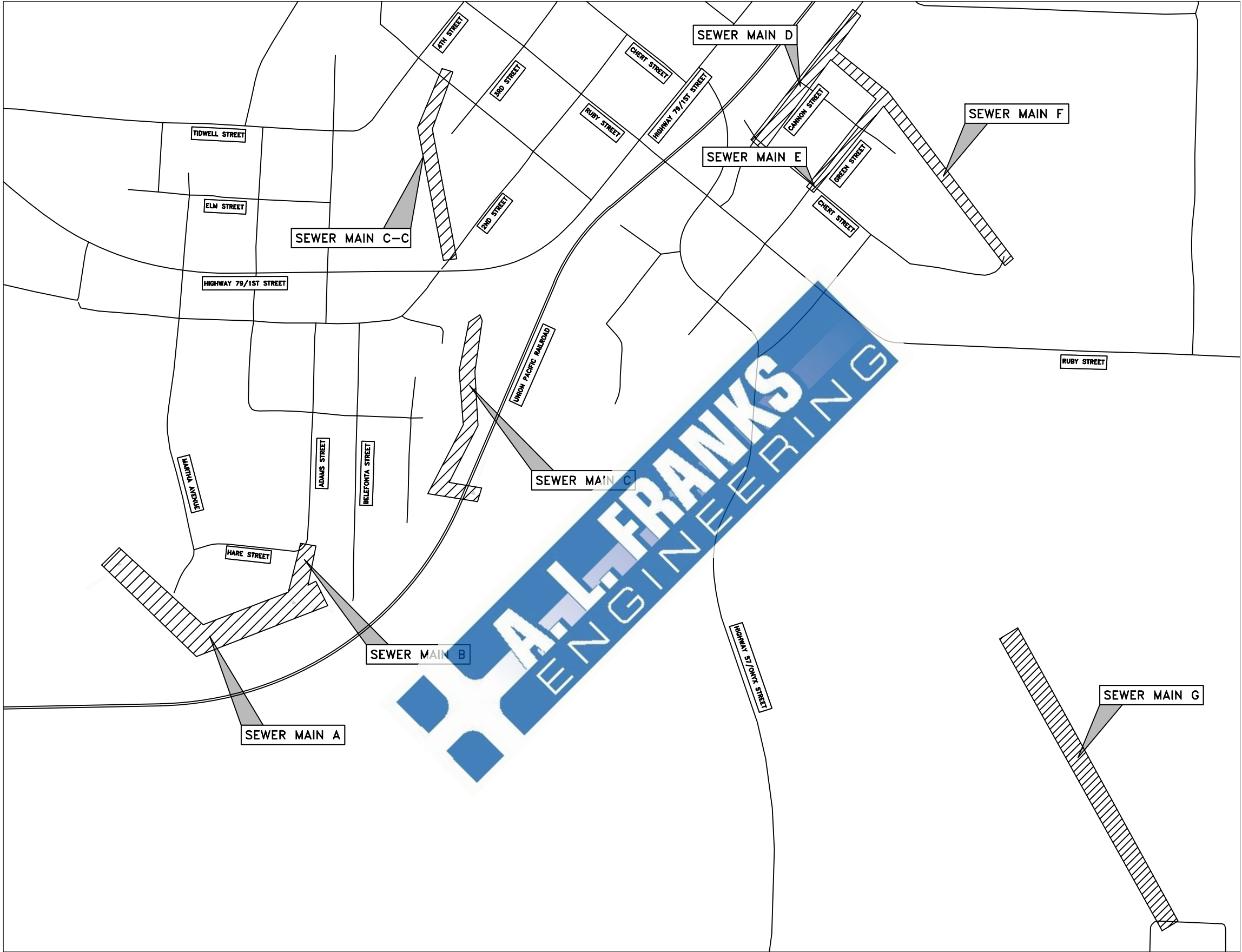
118 East Broad Street
Texarkana, Arkansas 71854
Phone (870) 216-1906
Fax (870) 216-1907

CITY OF STEPHENS
SEWER SYSTEM IMPROVEMENTS
STEPHENS, ARKANSAS 71764

GENERAL NOTES

Job No.: ST-01-24
Scale: N/A
Date: 9/2024
Sheet 2





Date	Revision	By

Designed	CJM
Checked	KSB
Drawn	CJM
Approved	KSB



118 East Broad Street
Texarkana, Arkansas 71854
Phone (870) 216-1906
Fax (870) 216-1907

CITY OF STEPHENS
SEWER SYSTEM IMPROVEMENTS
STEPHENS, ARKANSAS 71764

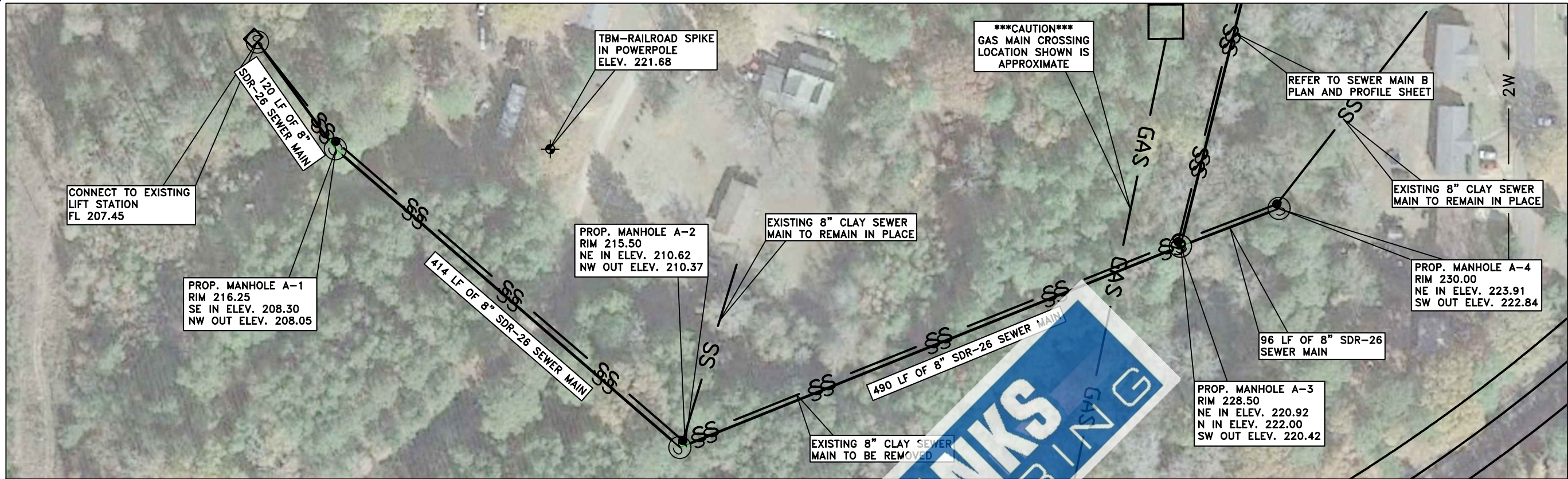
OVERVIEW MAP &
SHEET LAYOUT

Job No.: ST-01-24
Scale: 1"=500'
Date: 8/2024
Sheet 3

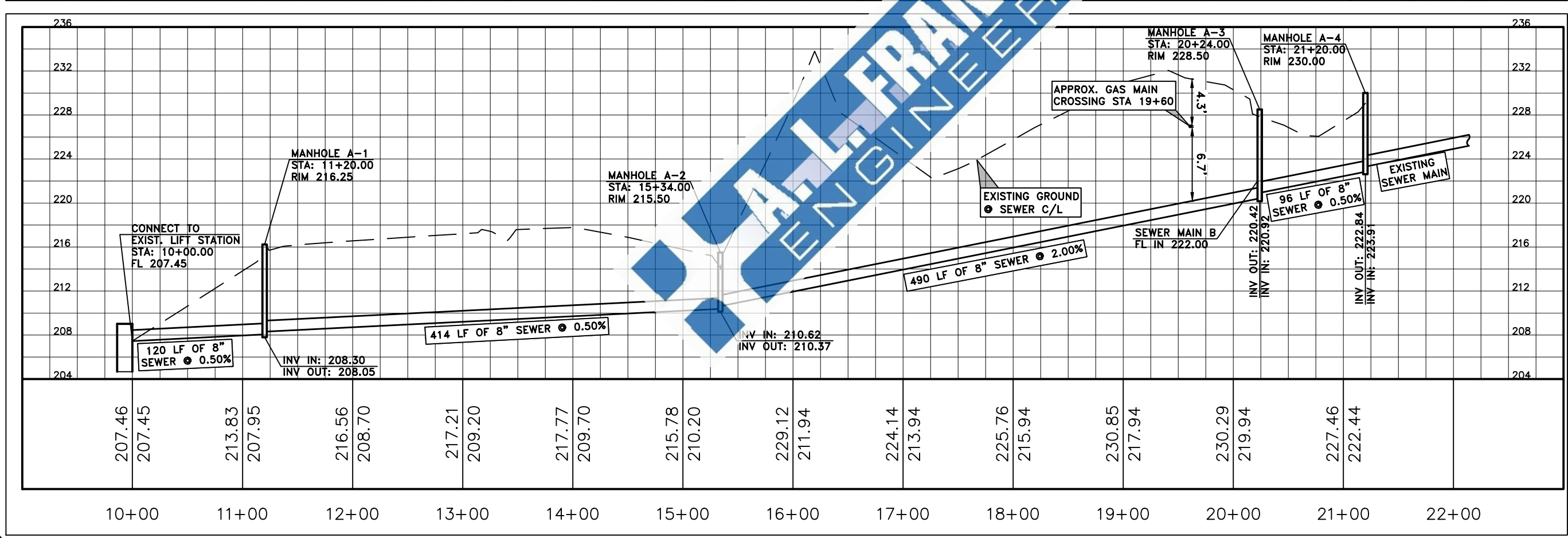


9-9-24

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LOCATION & ELEVATION OF GAS MAIN IS APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY LOCATIONS OF ALL UTILITIES BEFORE PERFORMING ANY GRADING ACTIVITIES AND NOTIFY ENGINEER OF ANY CONFLICTS.



9-30-24-1-REVISED PER ADH			CJM
Date	Revision	By	

Designed	CJM
Checked	KSB
Drawn	CJM
Approved	KSB



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CITY OF STEPHENS
SEWER SYSTEM IMPROVEMENTS
STEPHENS, ARKANSAS 71764

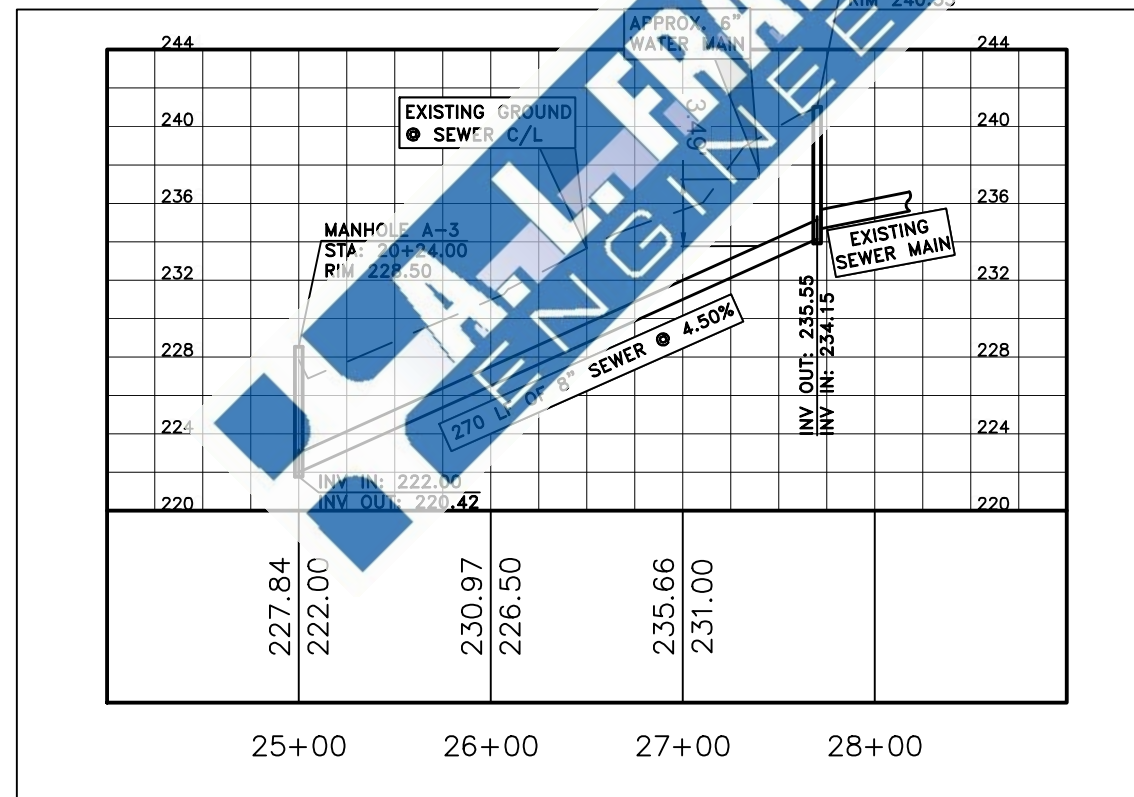
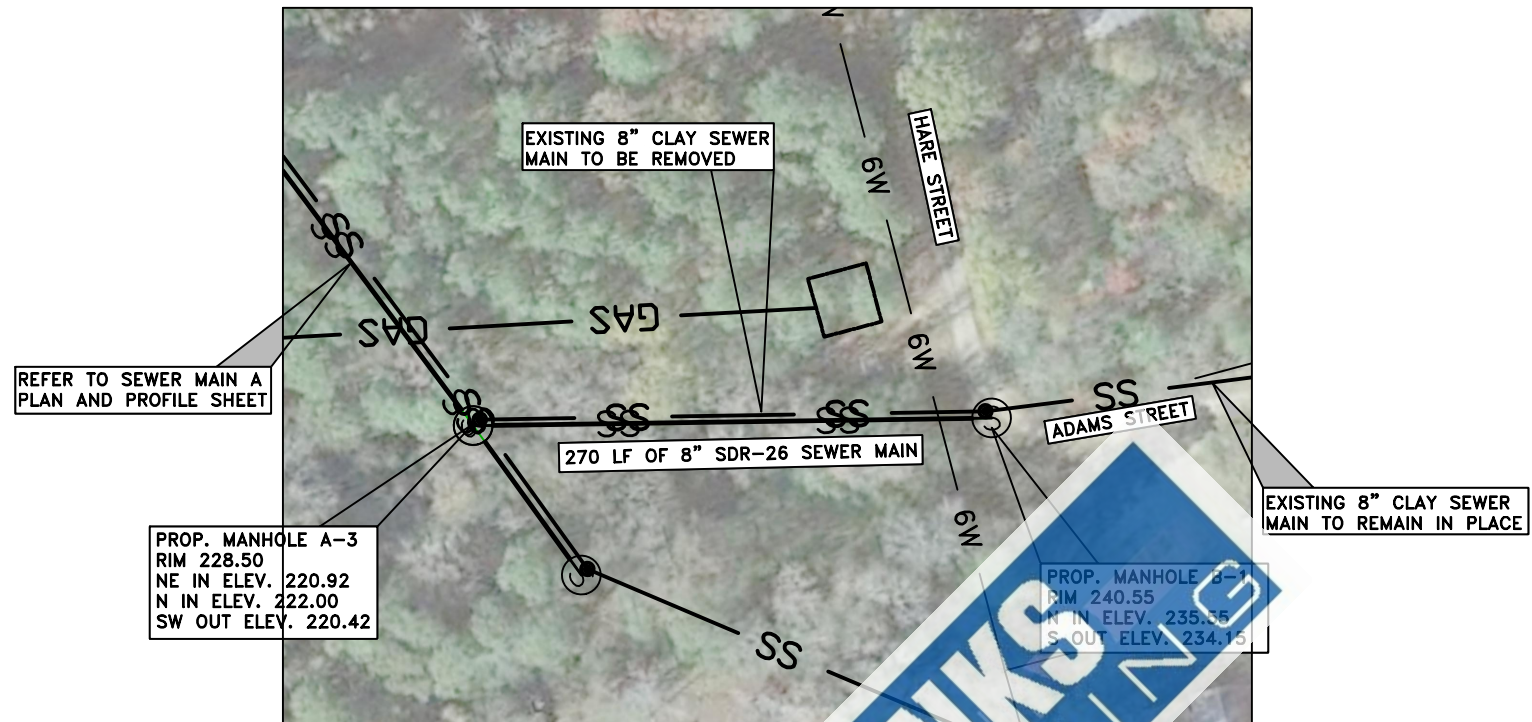
SEWER MAIN A
PLAN & PROFILE

Job No.:	ST-01-24
Scale:	1"=100'
Date:	9/2024
Sheet	4



9-30-24

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9-30-24	1-REVISED PER ADH	CJM
10-16-24	2-REVISED PER ADH	CJM
Date	Revision	By

Designed CJM
Checked KSB
Drawn CJM
Approved KSB

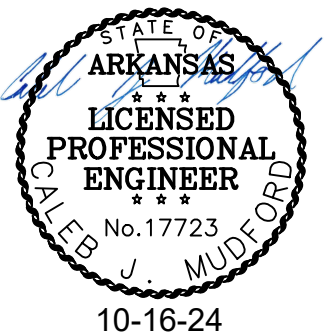


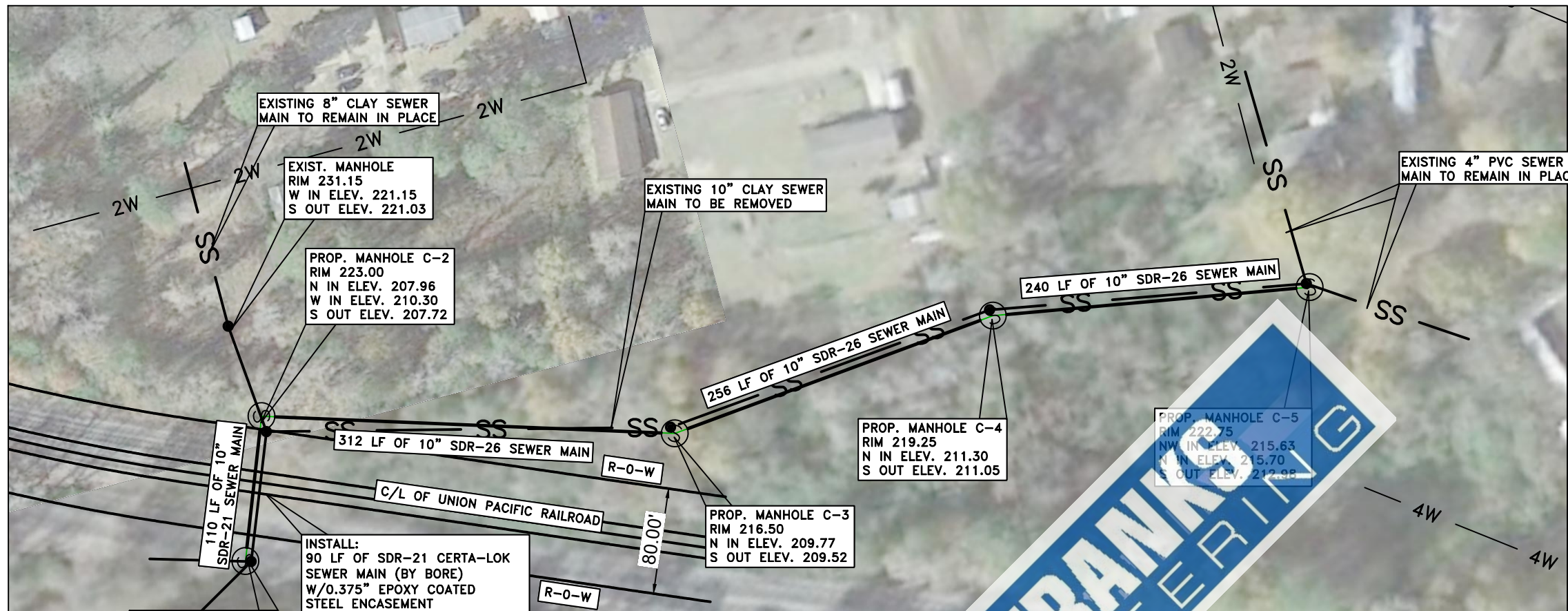
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SEWER MAIN B
PLAN & PROFILE

Job No.: ST-01-24
Scale: 1"=100'
Date: 10/2024
Sheet 5





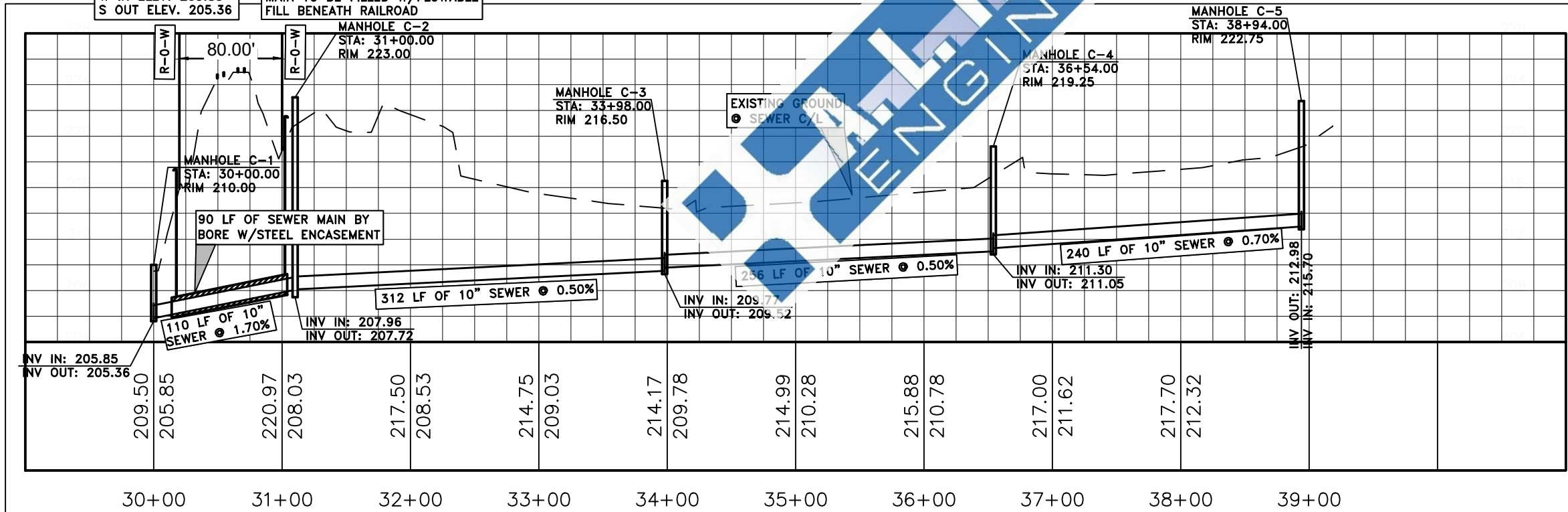
RAILROAD NOTES
CONTRACTOR WILL BE REQUIRED TO ACQUIRE AND MAINTAIN ALL NECESSARY INSURANCE TO PERFORM INSTALLATION AND ABANDONMENT OF PROPOSED AND EXISTING SEWER MAINS.

ALL WORK SHALL BE IN ACCORDANCE WITH UNION PACIFIC RAILROAD PERMIT.

CONTRACTOR WILL BE REQUIRED TO COORDINATE SCHEDULE WITH APPROPRIATE FLAGGER AND INSPECTORS AND SHALL HAVE THESE COSTS ALONG WITH INSURANCE COVERED WITHIN THE ASSOCIATED BID PROPOSAL ITEM.

CONTRACTOR SHALL INSTALL VENT PIPES TO EXTEND 4' ABOVE GRADE.

ENCASEMENT PIPE SHALL BE SEALED ON BOTH ENDS.



9-30-24	1-REVISED PER ADH	CJM
10-22-24	2-RAILROAD CROSSING REVISED	CJM
Date	Revision	By

Designed	CJM
Checked	KSB
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Approved	KSB



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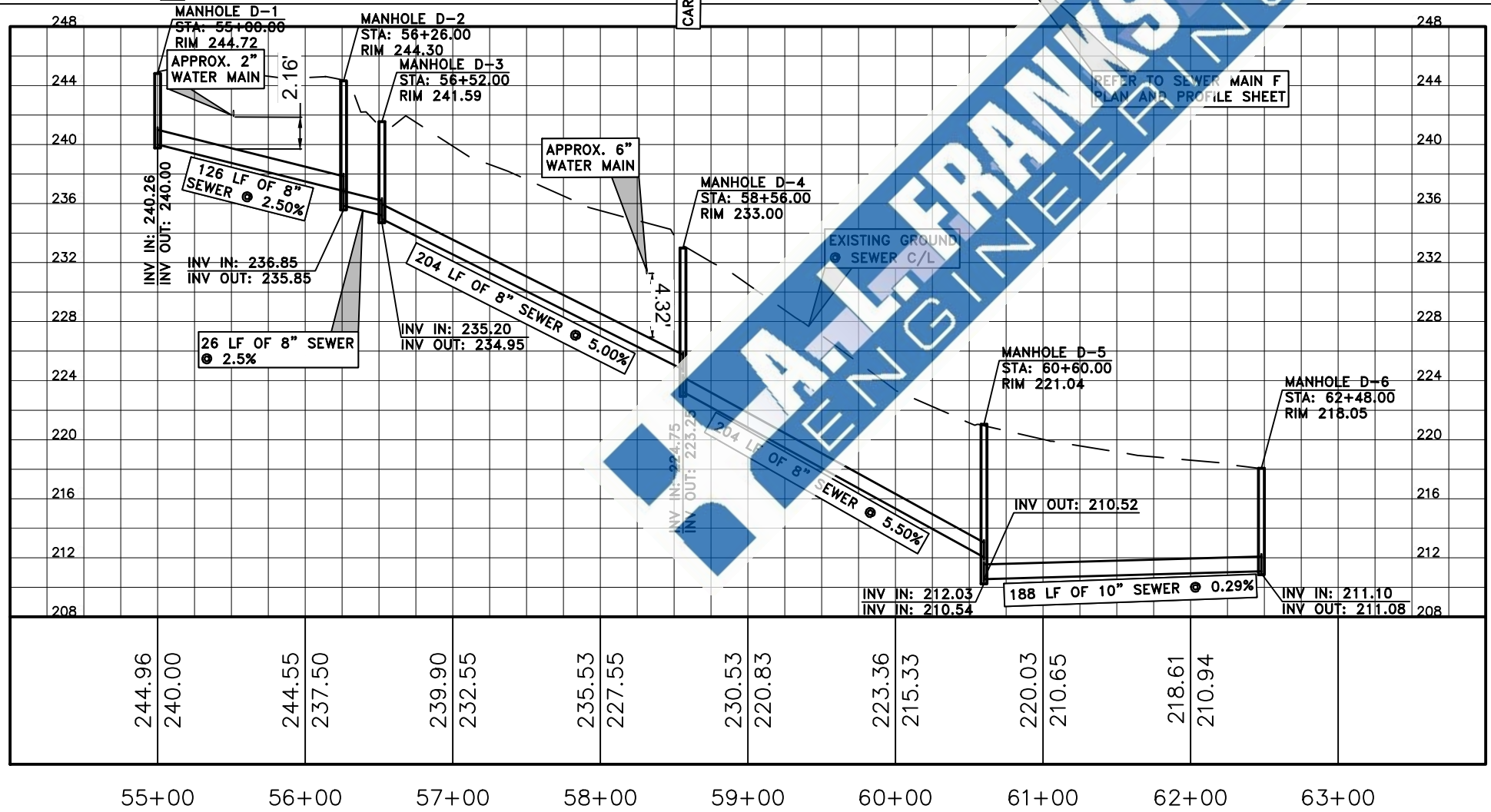
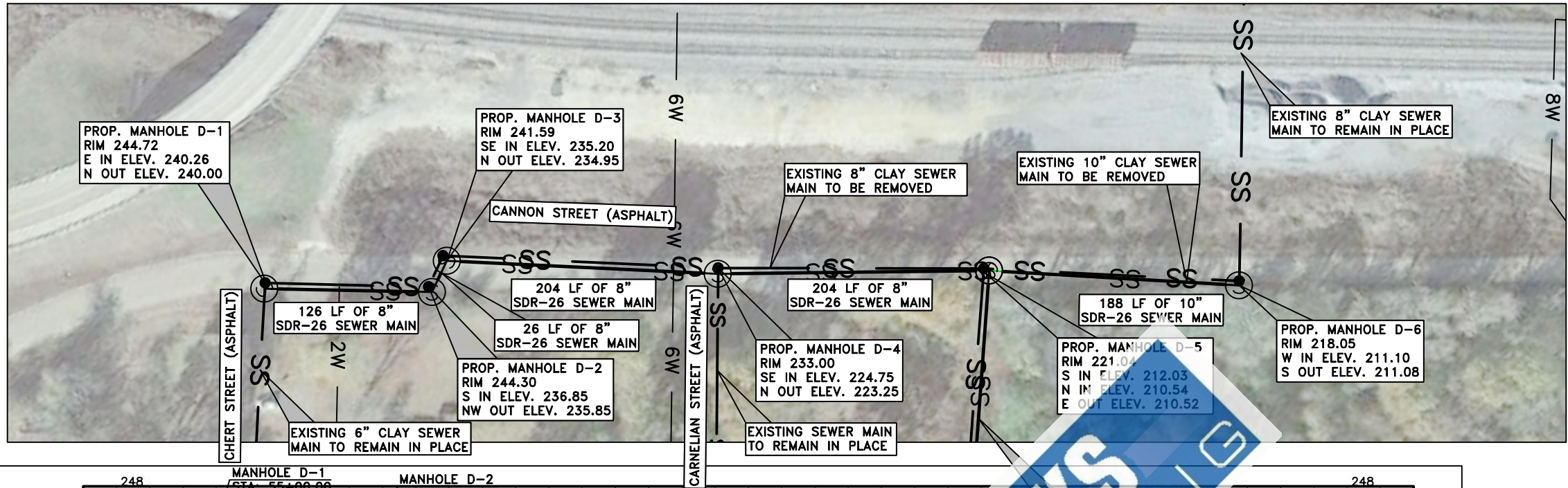
CITY OF STEPHENS
SEWER SYSTEM IMPROVEMENTS
STEPHENS, ARKANSAS 71764

SEWER MAIN C
PLAN & PROFILE

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****DEDUCTIVE ALTERNATE #2****
ALL WORK FOR SEWER MAIN D
LESS PROPOSED MANHOLES D-5
& D-6 AND THE CONNECTING 10"
SEWER MAIN BETWEEN TO BE REMOVED
AS PART OF DEDUCTIVE ALTERNATE #2

9-30-24	1-REVISED PER ADH	CJM
10-16-24	2-REVISED PER ADH	CJM
Date	Revision	By

Designed	CJM
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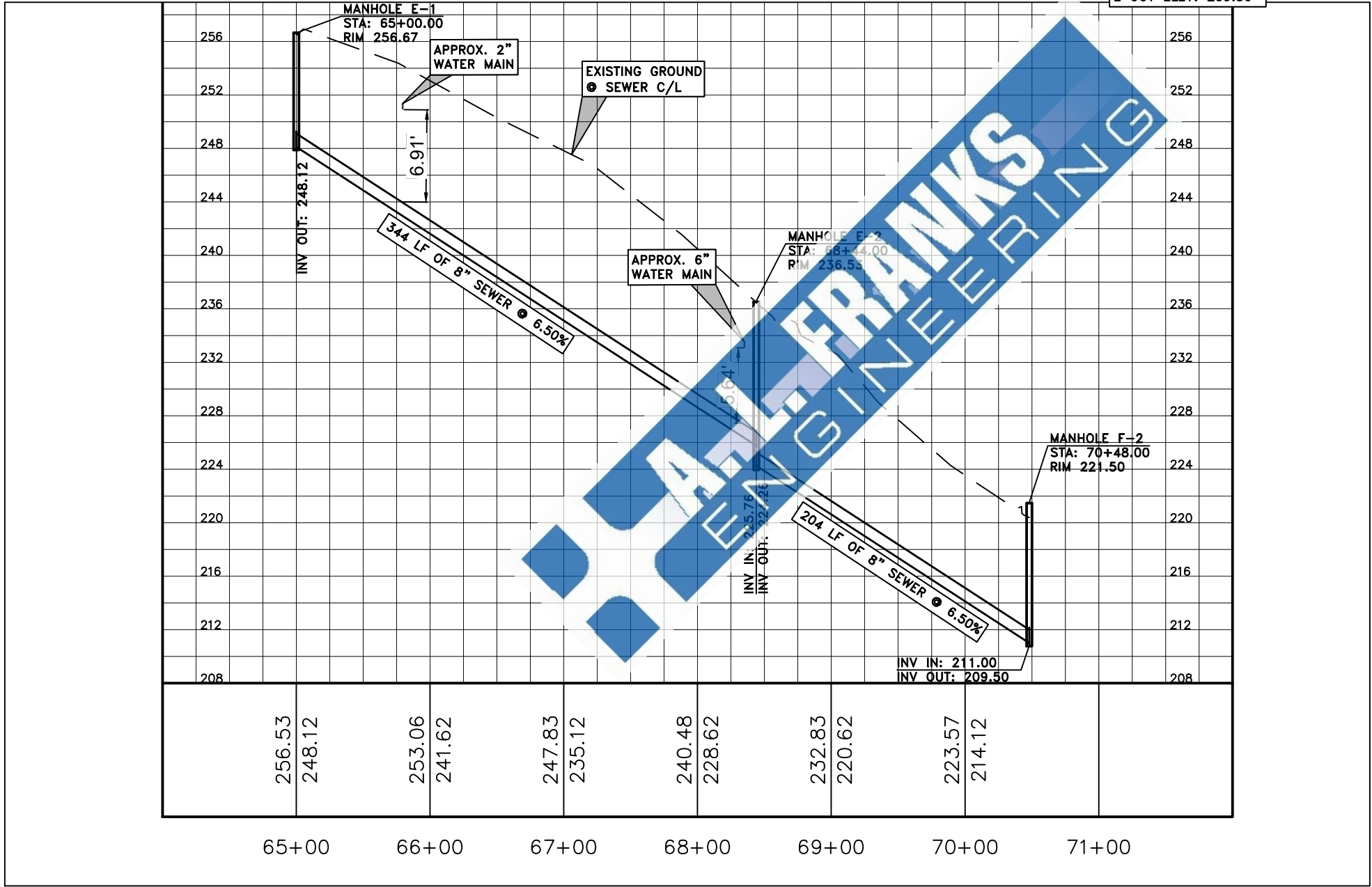
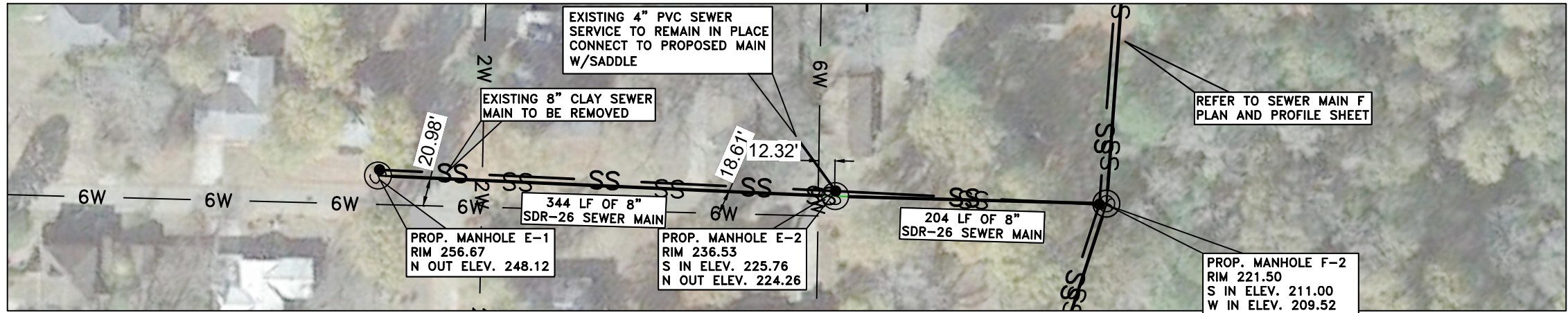
CITY OF STEPHENS
SEWER SYSTEM IMPROVEMENTS
STEPHENS, ARKANSAS 71764

SEWER MAIN D
PLAN & PROFILE

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10-16-24



****DEDUCTIVE ALTERNATE #1****
ALL WORK FOR SEWER MAIN E
TO BE REMOVED AS PART OF
DEDUCTIVE ALTERNATE #1

9-30-24	1-REVISED PER ADH	CJM
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Date	Revision	By

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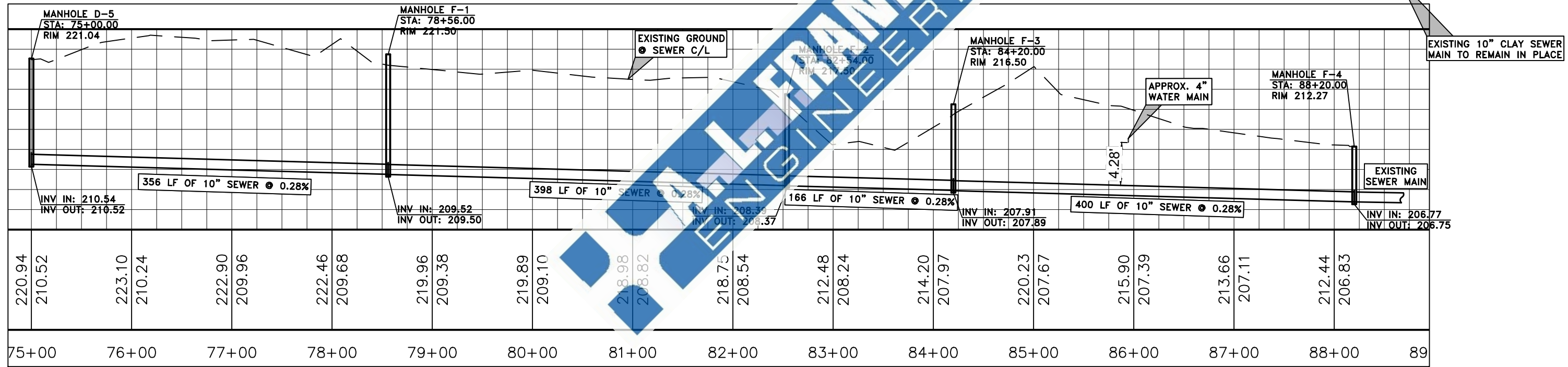
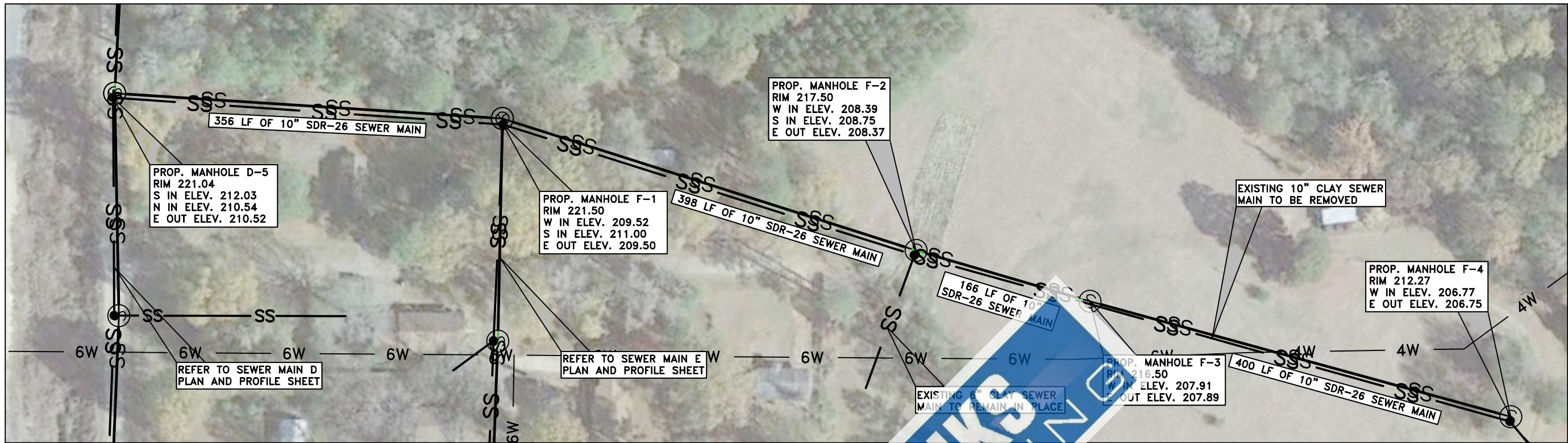
CITY OF STEPHENS
SEWER SYSTEM IMPROVEMENTS
STEPHENS, ARKANSAS 71764

SEWER MAIN E
PLAN & PROFILE

Job No.: ST-01-24
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10-16-24	2-REVISED PER ADH	CJM
Date	Revision	By

Designed	CJM
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Approved	KSB

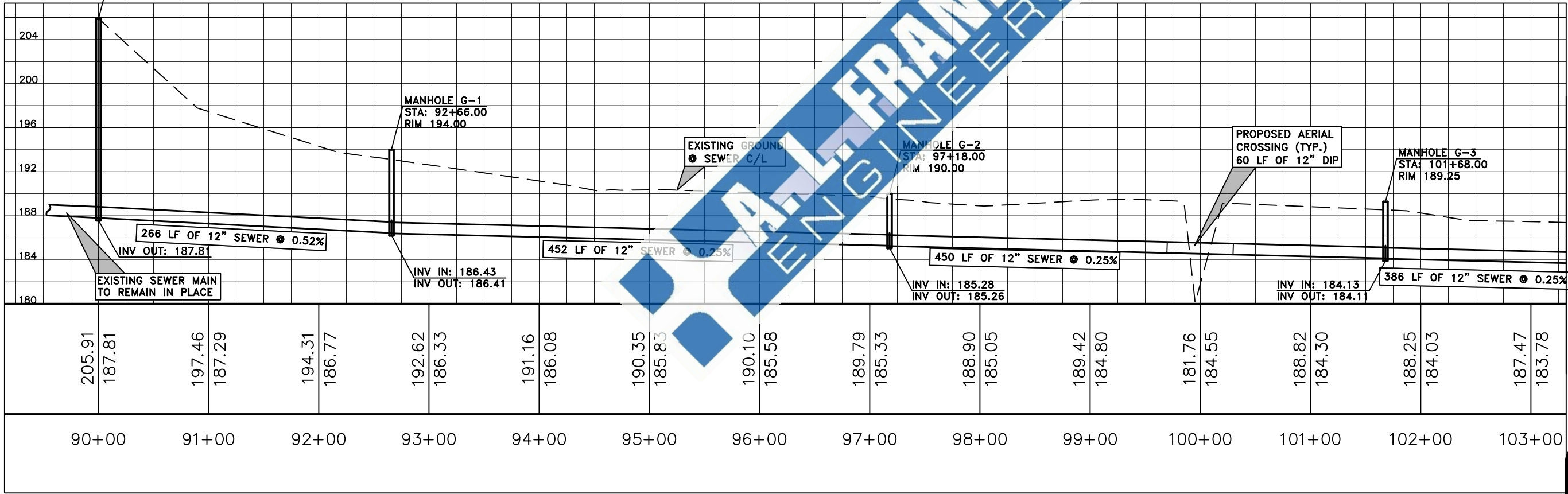
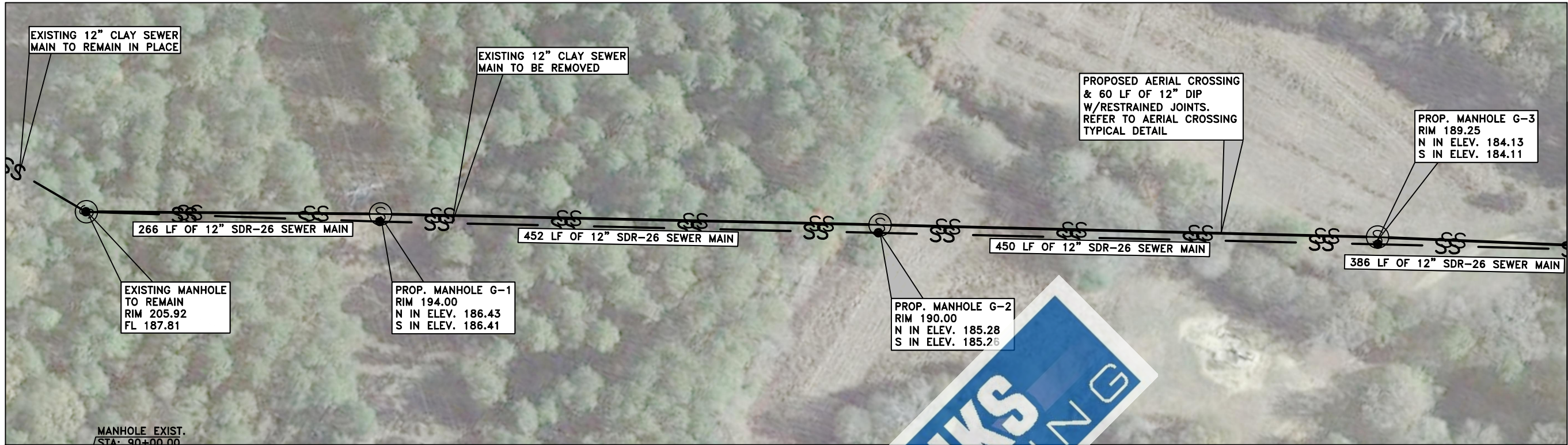
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SEWER SYSTEM IMPROVEMENTS
STEPHENS, ARKANSAS 71764

SEWER MAIN F
PLAN & PROFILE

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Scale: 1"=100'
Date: 10/2024
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10-16-24



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Date	Revision	By

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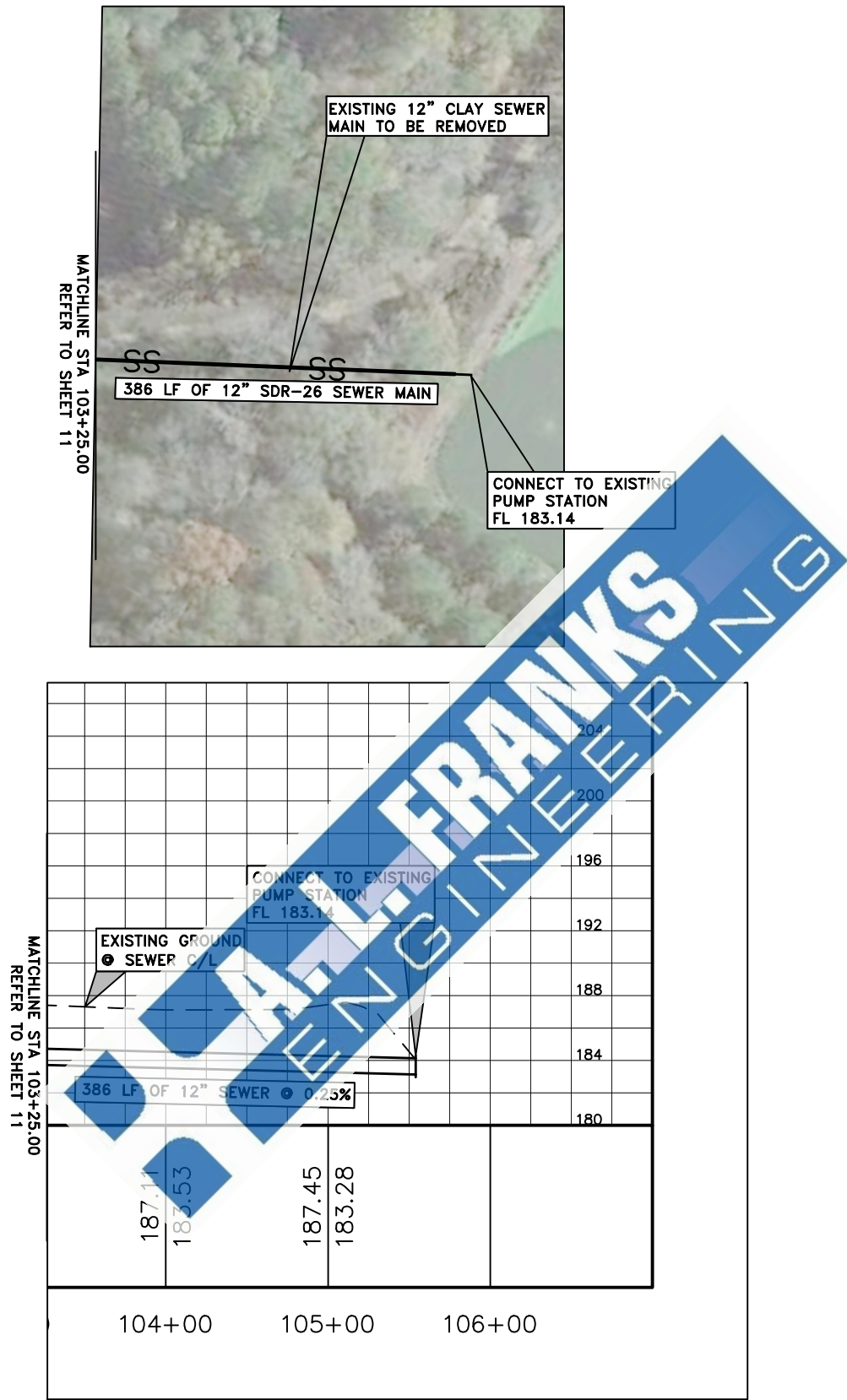
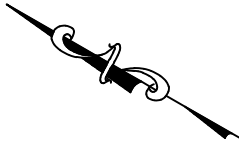
CITY OF STEPHENS
SEWER SYSTEM IMPROVEMENTS
STEPHENS, ARKANSAS 71764

SEWER MAIN G
PLAN & PROFILE

Job No.: ST-01-24
Scale: 1"=100'
Date: 9/2024
Sheet 11

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 17723
J. MUDFORD
9-30-24

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9-30-24	1-REVISED PER ADH	CJM
Date	Revision	By

Designed	CJM
Checked	KSB
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STEPHENS, ARKANSAS 71764

SEWER MAIN G
PLAN & PROFILE

Job No.:	ST-01-24
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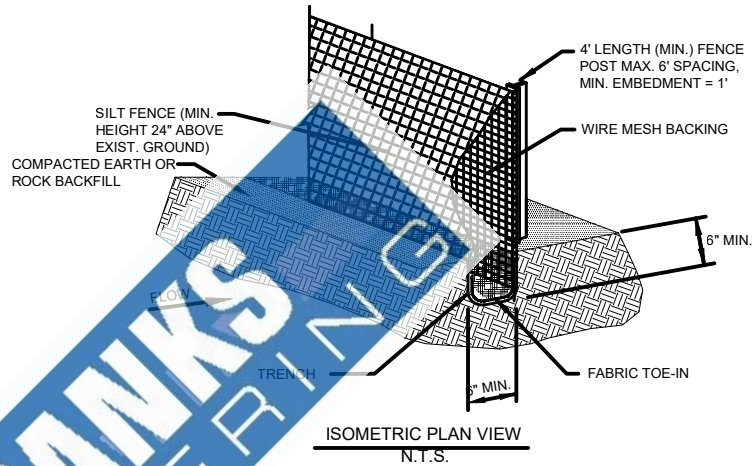


9-30-24

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EROSION CONTROL NOTES

1. THE PROPOSED PROJECT AS SHOWN WILL DISTURB APPROX. 1.6 ACRES AND IS THEREFORE RECEIVES AUTOMATIC COVERAGE UNDER ADEQ GENERAL PERMIT AS A SMALL SITE. CONTRACTOR IS TO MAINTAIN BMP'S AND SWPPP THROUGHOUT CONSTRUCTION AND POST ALL REQUIRED NOTICES AS REQUIRED BY ADEQ AND THE CITY OF STEPHENS.
2. THE CONTRACTOR SHALL UTILIZE BEST MANAGEMENT PRACTICES TO MINIMIZE THE IMPACTS OF SEDIMENTATION AND TURBIDITY IN DRAINAGE WAYS. THE CONTROLS SHOWN ARE CONSIDERED THE MINIMUM AND ADDITIONAL CONTROLS SHALL BE ADDED BY THE CONTRACTOR AS NECESSARY TO CONTROL SEDIMENT RUNOFF FROM THE SITE.
3. BMP'S SHOWN ARE TO BE INSTALLED PRIOR TO DEMOLITION OR EARTHWORK OPERATIONS.
4. THE CONTRACTOR SHALL MAINTAIN ALL BMP'S THROUGHOUT THE PROJECT UNTIL PERMANENT COVER & VEGETATION IS ESTABLISHED.
5. DIRT ON ROADWAYS FROM SITE OFF-TRACKING SHALL BE REMOVED DAILY.
6. ALL SITE NOTICES REQUIRED BY ADEQ AND THE CITY OF STEPHENS SHALL BE POSTED FOLLOWING ALL STATE AND LOCAL GUIDELINES. NOTICES SHALL BE PROVIDED TO THE MS4 OPERATOR AS NECESSARY.
7. EROSION CONTROL WORKFLOW SHALL PRIMARILY CONSIST OF THE PLACEMENT OF PERIMETER CONTROLS, CONSTRUCTION OF PERMANENT SITE FEATURES, SITE STABILIZATION INCLUDING VEGETATION OF AREAS ONCE FINAL GRADES ARE MET AND SITE CLEANUP ONCE CONSTRUCTION IS COMPLETE.



SILT FENCE GENERAL NOTES:

1. POSTS WHICH SUPPORT THE SILT FENCE SHALL BE INSTALLED ON A SLIGHT ANGLE TOWARD THE ANTICIPATED RUNOFF SOURCE. POST MUST BE EMBEDDED A MINIMUM OF ONE FOOT.
2. THE TOE OF THE SILT FENCE SHALL BE TRENCHED IN WITH A SPADE OR MECHANICAL TRENCHER, SO THAT THE DOWNSLOPE FACE OF THE TRENCH IS FLAT AND PERPENDICULAR TO THE LINE OF FLOW. WHERE FENCE CANNOT BE TRENCHED IN (e.g. PAVEMENT), WEIGHT FABRIC FLAP WITH ROCK ON UPHILL SIDE TO PREVENT FLOW FROM SEEPING UNDER FENCE
3. THE TRENCH MUST BE A MINIMUM OF 6 INCHES DEEP AND 6 INCHES WIDE TO LLOW FOR THE SILT FENCE FABRIC TO BE LAID IN THE GROUND AND BACKFILLED WITH COMPACTED MATERIAL.
4. SILT FENCE SHOULD BE SECURELY FASTENED TO EACH STEEL SUPPORT POST OR TOWIRE BACKING, WHICH IN TURN IS ATTACHED TO THE STEEL FENCE POST. THERE SHALL BE A 3 FOOT OVERLAP, SECURELY FASTENED WHERE ENDS OF FABRIC MEET.
5. INSPECTION SHALL BE MADE EVERY TWO WEEKS AND AFTEREACH 1/2" RAINFALL. REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
6. SILT FENCE SHALL BE REMOVED WHEN FINAL STABILIZATION IS ACHIEVED OR ANOTHER EROSION OR SEDIMENT CONTROL DEVICE IS EMPLOYED.
7. ACCUMULATED SILT SHALL BE REMOVED WHEN IT REACHES A DEPTH OF HALF THE HEIGHT OF THE FENCE. THE SILT SHALL BE DISPOSED OF AT AN APPROVED SITE AND IN SUCH A MANNER AS TO NOT CONTRIBUTE TO ADDITIONAL SILTATION.

Date	Revision	By

Designed CJM
Checked KSB
Drawn CJM
Approved KSB



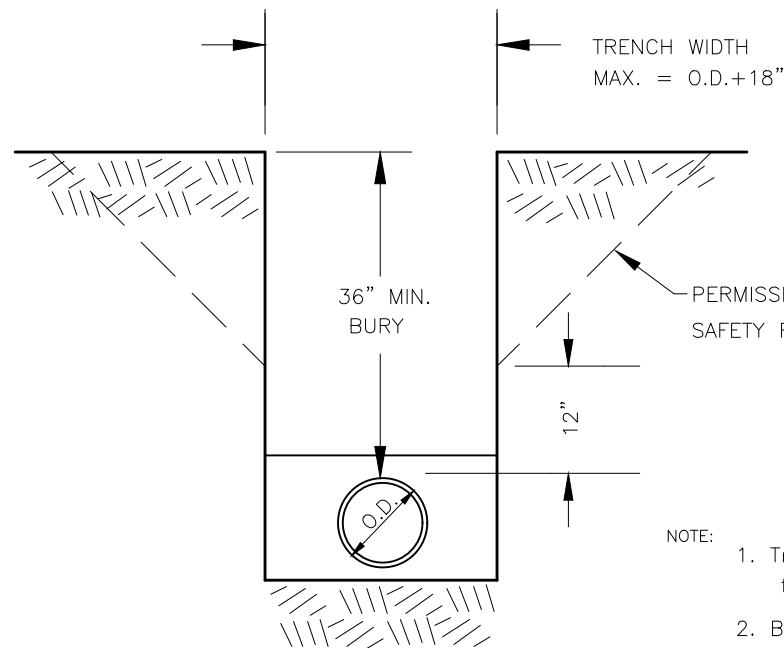
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CITY OF STEPHENS
SEWER SYSTEM IMPROVEMENTS
STEPHENS, ARKANSAS 71764

EROSION & SEDIMENT
CONTROL DETAILS

Job No.: ST-01-24
Scale: N/A
Date: 9/2024
Sheet 13

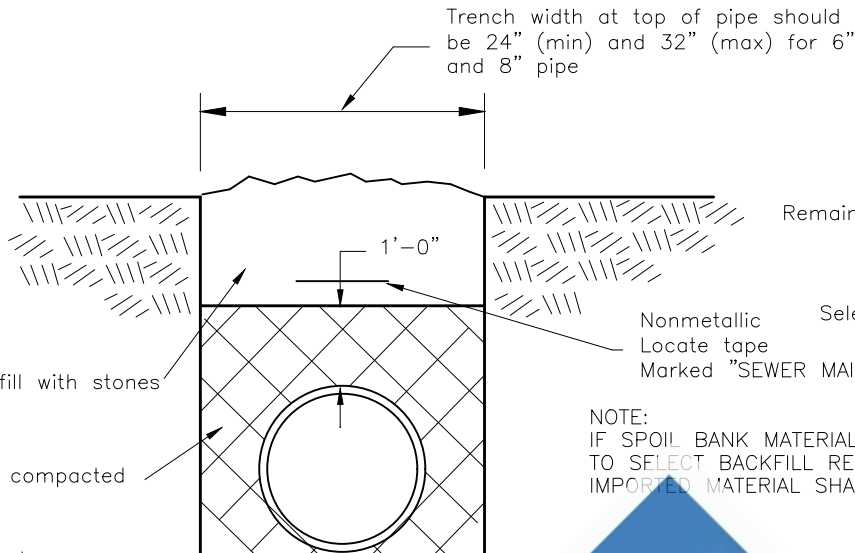




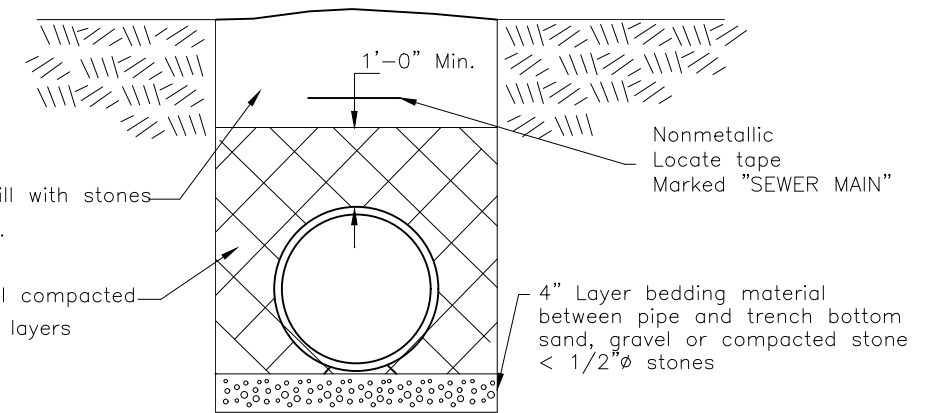
TYPICAL TRENCH SECTION
N.T.S.

NOTE:

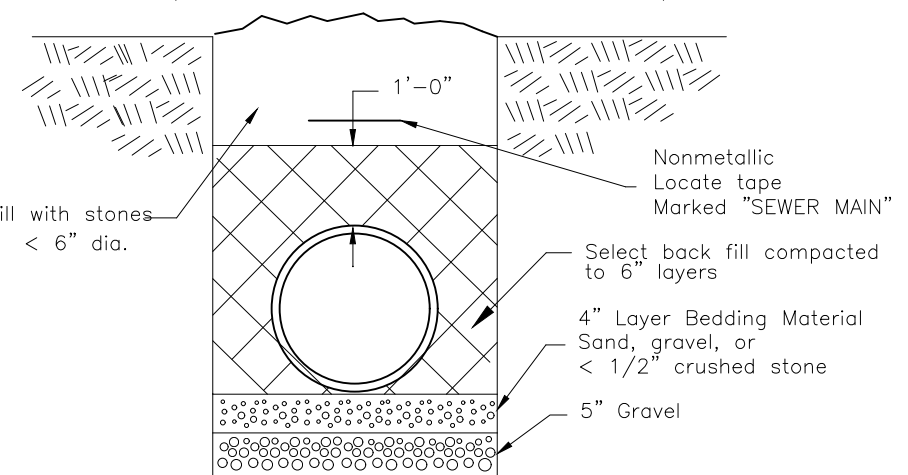
1. Trench bottom should be smooth and free from large stones > 1/2" or clods
2. Bell holes shall be dug at each joint.
3. Select back fill shall be free of rocks > 3/4" ϕ , clods or frozen material compacted to 90% standard proctor.
4. Trench excavation is unclassified; contractors bid shall include excavation of all materials and shall include bedding or back fill as shown in type 1, 2, or 3 laying conditions.
5. Pipe bedding must meet AWWA C605 standard.



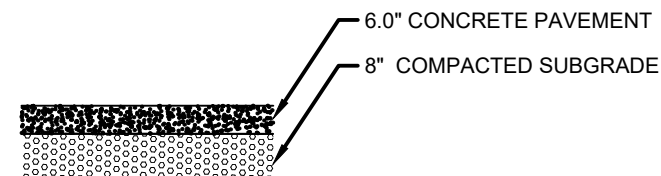
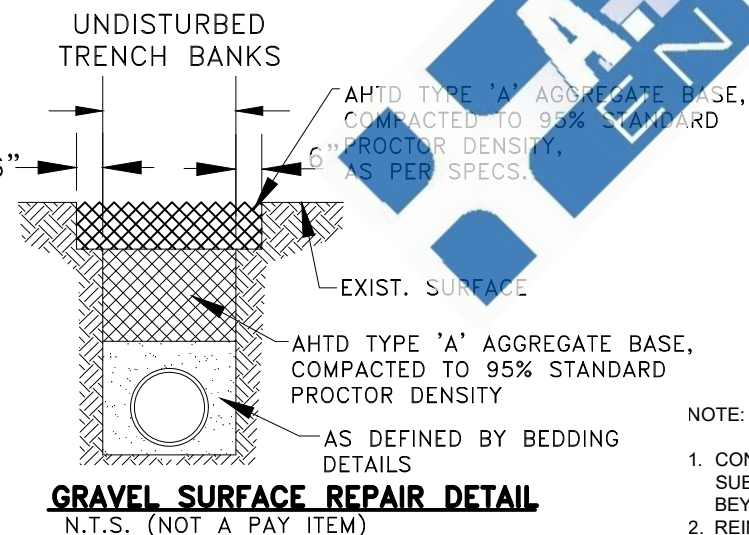
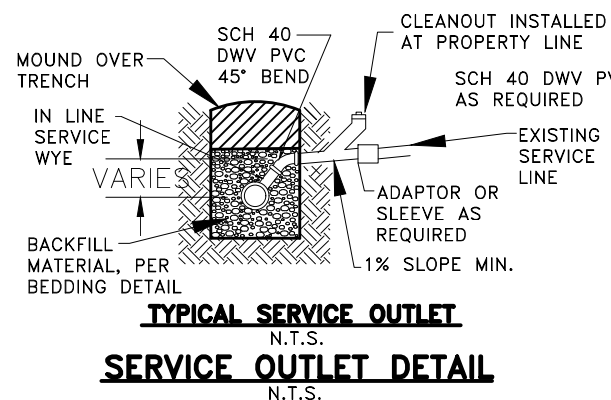
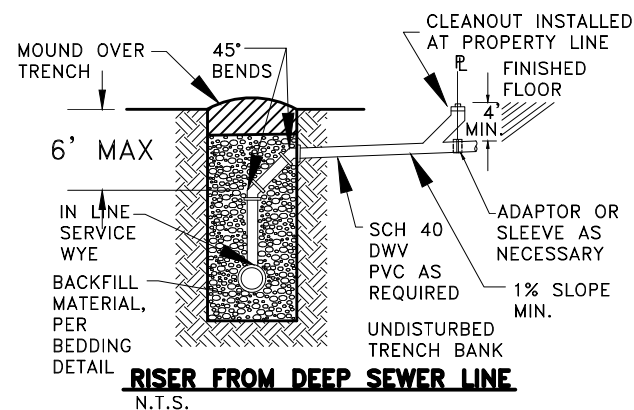
TYPE 1 LAYING CONDITION
(USE UNDER NORMAL CONDITIONS)



TYPE 2 LAYING CONDITION
(USE FOR ROCKY OR HARD TRENCH BOTTOM)



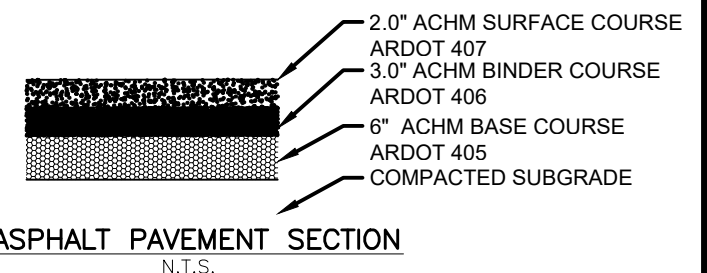
TYPE 3 LAYING CONDITION
(USE FOR SOFT OR WET TRENCH BOTTOM)



CONCRETE PAVEMENT SECTION
N.T.S.

NOTE:

1. CONCRETE SHALL HAVE A MINIMUM 3,500 28-DAY COMPRESSIVE STRENGTH W/4.5-6% ENTRAINED AIR. SUBGRADE SHALL BE COMPACTED TO 98% OF STANDARD PROCTOR +/-3% AND EXTEND A MINIMUM 1.0' BEYOND PAVEMENT EDGE.
2. REINFORCEMENT SHALL BE NO. 4 BARS @ 24" EACH WAY C-C.
3. ALL UNCURBED PAVEMENT EDGES TO BE THICKENED FOLLOWING GEOTECHNICAL REPORT GUIDANCE.
4. PAVEMENT SECTION SHOWN SHALL BE CONSIDERED MINIMUM PAVEMENT SECTION.



NOTE:

1. ASPHALT PAVEMENT SHALL FOLLOW GUIDANCE IN ARDOT DIVISION 400 FOR ASPHALT PAVEMENTS

Date	Revision	By

Designed **CJM**
Checked **KSB**
Drawn **CJM**
Approved **KSB**



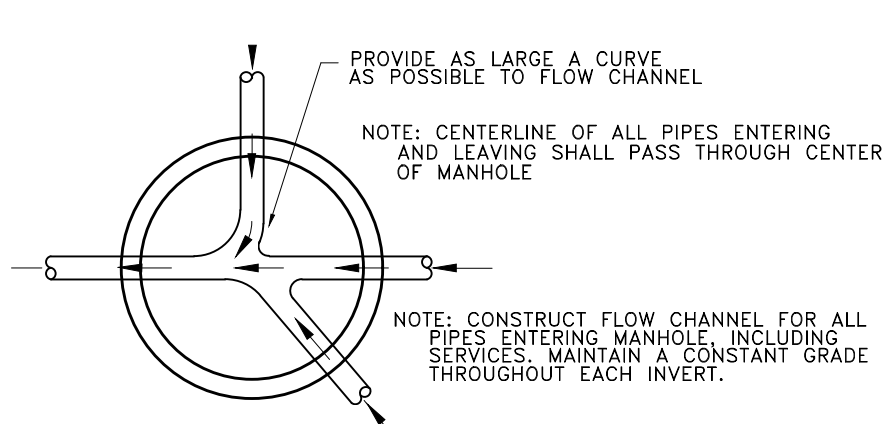
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CITY OF STEPHENS
SEWER SYSTEM IMPROVEMENTS
STEPHENS, ARKANSAS 71764

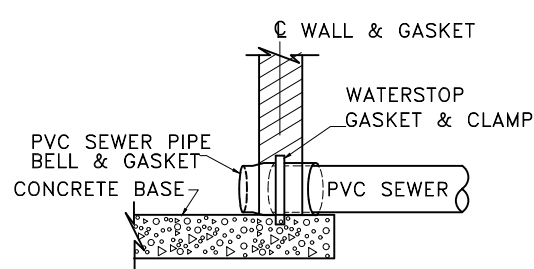
TYPICAL SEWER DETAILS

Job No.: ST-01-24
Scale: N/A
Date: 9/2024
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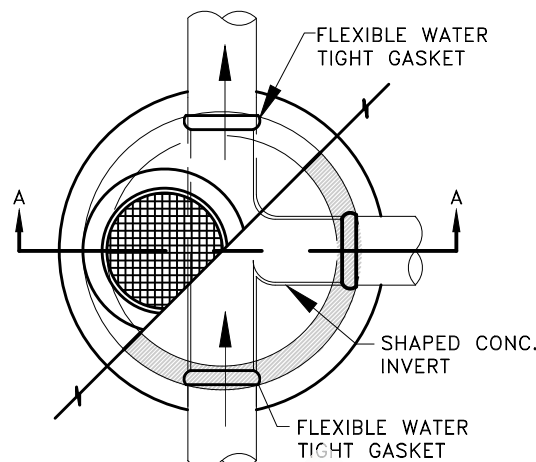




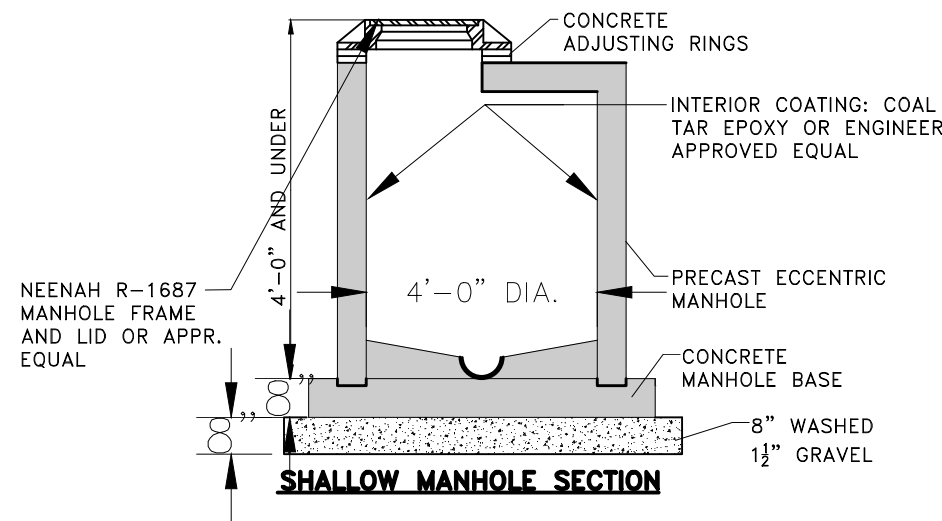
MANHOLE BOTTOM DETAIL
N.T.S.



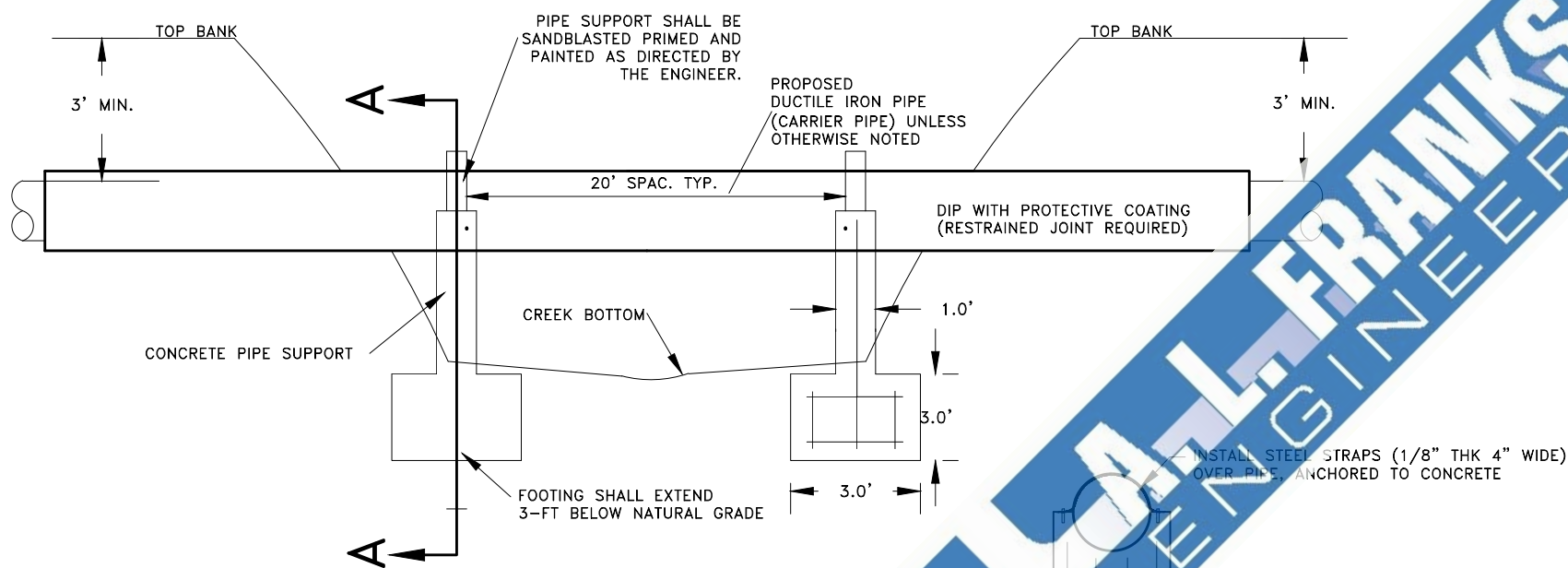
PVC SEWER PIPE MANHOLE CONNECTION DETAIL
N.T.S.



STANDARD MANHOLE PLAN
N.T.S.



SHALLOW MANHOLE SECTION

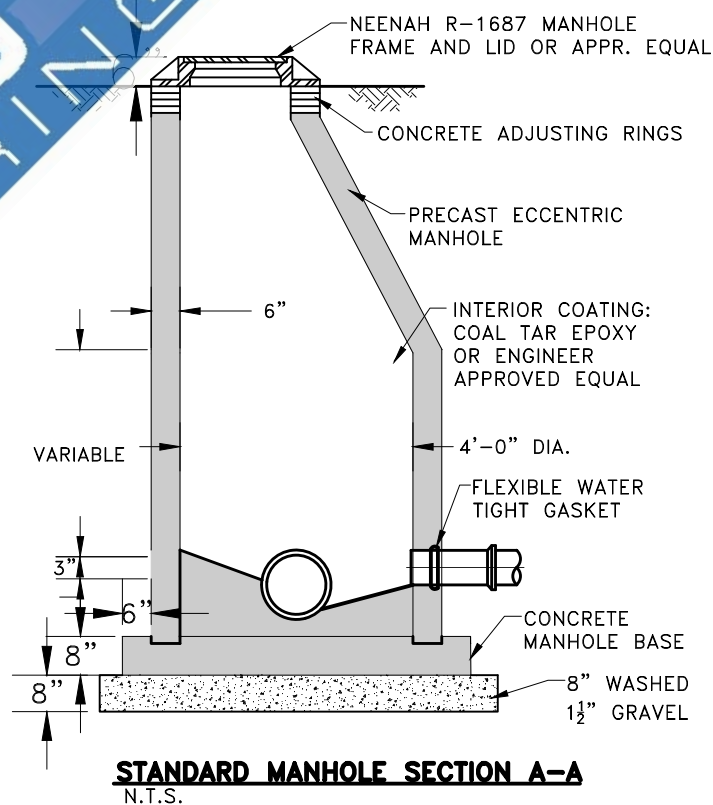


AERIAL CROSSING
N.T.S.

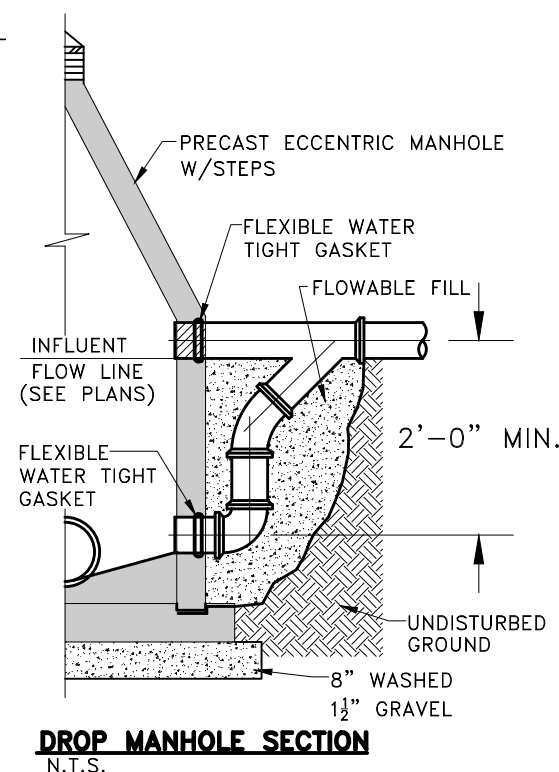
3000 PSI CONCRETE #4 BAR AT 12" O.C.E.W.

3000 PSI CONCRETE (3'X4'X3'D)

SECTION A



STANDARD MANHOLE SECTION A-A
N.T.S.



DROP MANHOLE SECTION
N.T.S.

STANDARD MANHOLE DETAILS
N.T.S.

9-30-24	REVISED PER ADH	CJM
Date	Revision	By

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2ND STREET SEWER IMPROVEMENTS
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TYPICAL SEWER DETAILS

Job No.: ST-01-24
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Date: 9/2024
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