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ADDENDUM NO. 2

Date: March 23, 2021
Project Name: SH-37 Sanitary Sewer Relocation at Little River Bridge
Owner: City of Moore
Garver Project No. 21W02390

This addendum shall be a part of the Plans, Contract Documents and Specifications to the same extent as though it were originally included therein, and it shall supersede anything contained in the Plans, Contract Documents, and Specifications with which it might conflict. This addendum, including all attachments, shall become part of the Contract and all provisions of the Contract shall apply thereto. The time provided for completion of the Contract has not been changed as noted in this addendum. Acknowledgement of receipt of this addendum must be noted in the appropriate section of the Bid Form and included with the Contract Documents.

A. SPECIFICATIONS

1. Revise Section 01 00 00, ADVERTISEMENT FOR BID #2021-09, Paragraph 1, to reflect the new bid opening date of Friday, March 26, 2021. The time remains unchanged.
2. Revise Section 01 04 00, PROPOSAL, page 3, as follows:
 - a. Increase Item 4, P.C. CONCRETE PAVEMENT (PLACEMENT), to 64 S.Y.
 - b. Increase Item 5, P.C. CONCRETE FOR PAVEMENT, to 16 C.Y.
 - c. Increase Item 23, 18" STEEL CASING, to 104 L.F.
 - d. Increase Item 26, REMOVAL OF CONCRETE PAVEMENT, to 64 S.Y.

B. STANDARD DETAILS

1. No items for Standard Details are included in this addendum.

C. DRAWINGS

1. Revise Sheet 2 – QUANTITIES AND GENERAL NOTES
 - a. Summary of Pay Quantities
 - i. Increase Item 4, P.C. CONCRETE PAVEMENT (PLACEMENT), to 64 S.Y.
 - ii. Increase Item 5, P.C. CONCRETE FOR PAVEMENT, to 16 C.Y.
 - iii. Increase Item 23, 18" STEEL CASING, to 104 L.F.
 - iv. Increase Item 26, REMOVAL OF CONCRETE PAVEMENT, to 64 S.Y.
 - b. Sanitary Sewer General Note B revised to indicate only one-half of SH-37 may be closed at a time.

2. Revise Sheet 4 – PLAN AND PROFILE

- a. Increased length of steel casing between MH #5 and MH #6 to 104 L.F.
- b. Revised callout for 12" Water Line from Proposed to Revised (see Clarifications below).

D. QUESTIONS AND CLARIFICATIONS

- 1. The "Proposed Water Line" indicated on the plans is already installed as shown on Sheet 4, which is why the callout for this line was revised to say "Existing Water Line."
- 2. "Can we bore across SH-37 instead of open cutting?"
 - a. Boring may be considered in lieu of open cutting at the Contractor's option provided it is not a cost increase.

By: 

J. Bret Cabbiness, P.E.
Senior Project Manager



Attachments:

- A. Specifications
 - 1. 01 00 00 – ADVERTISEMENT FOR BID #2021-09
 - 2. 01 04 00 – PROPOSAL
- B. Drawings
 - 1. Sheet 2 – QUANTITIES AND GENERAL NOTES
 - 2. Sheet 4 – PLAN AND PROFILE

END OF ADDENDUM NO. 2

010000 - ADVERTISEMENT FOR BID #2021-09

Sealed bids for **SANITARY SEWER UTILITY RELOCATIONS FOR SH-37 AT LITTLE RIVER BRIDGE**, Bid #2021-009 to be constructed for CITY OF MOORE, OK, must be submitted by 1:30 pm on Wednesday, March 24, 2021 to the City Clerk, City of Moore, 301 N. Broadway, Moore OK 73160. Bid opening will take place in the Council Chambers, 301 N. Broadway, Moore OK at 2:00 pm on Wednesday, March 24, 2021 where bids shall be publicly opened and read aloud.

No pre-bid meeting will be held. All questions are to be submitted electronically through the Garver Planroom no later than 12:00 pm on Monday, March 15th. Questions will be answered via an addendum no later than 12:00 pm on Friday, March 19th. All bidders must acknowledge all addenda issued in the correct location on the bid form.

This tax-exempt project includes, but is not limited to, relocation of approximately 185 LF of 12" sanitary sewer line, 86 LF of 18" sanitary sewer line, and 264 LF of 24" sanitary sewer line as shown on the plans and indicated in the specifications.

Digital copies of the bid documents are available at <http://planroom.garverusa.com> for a fee of \$30. These documents may be downloaded by selecting this project from the "Plan Room" link, and by entering Quest Project Number 7620667 on the "Browse Projects" page. For assistance and free membership registration, contact QuestCDN at 952.233.1632 or info@questcdn.com. Addendums to the bid package will be issued through the online Garver Plan Holders List; therefore, all prime bidders shall be responsible for downloading the bid documents from the Garver online plan room in order to be included in the Plan Holders List. Bidders must enter the addenda numbers in the Proposal to verify receipt.

Proposals shall be accompanied by a cashier's or certified check upon a national or state bank in an amount not less than five percent (5%) of the total maximum bid price payable without recourse to the Owner, or a bid bond in the same amount from a reliable surety company, as a guarantee that the Bidder will enter into a contract and execute performance and payment bonds within ten (10) days after notice of award of Contract to him. Such bid guarantee shall be made payable to CITY OF MOORE.

The successful bidder must furnish a performance and payment bond upon the form provided in the amount of one hundred per cent (100%) of the contract price from an approved surety company holding a permit from the State of Oklahoma to act as surety, or other surety or sureties acceptable to the Owner.

City of Moore reserves the right to reject any or all bids, to waive irregularities in the bids and bidding deemed to be in the best interests of City of Moore, and to reject nonconforming, nonresponsive, or conditional bids.

Bids must remain in effect for 60 days after the bid opening date.

CITY OF MOORE

010400 - PROPOSAL

Place _____

Date _____

Proposal of _____,

a corporation organized and existing under the laws of the State of _____,

or

Proposal of _____,

a partnership consisting of _____,

or

Proposal of _____,

an individual doing business as _____,

To: City of Moore, OK

This bid results from your advertisement for bids for the construction of the **SH-37 at Little River Utility Relocations.**

The undersigned Bidder, having visited the site of the work, having examined the Plans, Specifications, and other Contract Documents including all Addenda, and being familiar with all of the conditions relating to the construction of the proposed project, hereby agrees to comply with all other conditions or requirements set forth in the Plans, Specifications, and other Contract Documents, and further proposes to; furnish all material, supplies, equipment, and appliances; to furnish all labor, tools, equipment and incidentals to complete the work in accordance with the Plans, Specifications, and other Contract Documents at and for the lump sum and unit prices proposed in the attached Unit Price Schedule(s).

The undersigned Bidder agrees to begin work within ten (10) calendar days after the issuance by, or on behalf of, the Owner of a "Work Order" or "Notice to Proceed" and to complete the work within Ninety (90) consecutive calendar days thereafter (except as modified in accordance with the GENERAL CONDITIONS of these Contract Documents). Should the work fail to be completed within the time herein stated, the Contractor shall pay to the Owner, as fixed and agreed liquidated damages, and not as a penalty, the sum, for each day of delay until the work is completed and accepted, as stipulated in GENERAL CONDITIONS of these Contract Documents. It is understood that additional time for the completion of the project is to be allowed only for delays as stipulated in GENERAL CONDITIONS of these Contract Documents.

Bidder acknowledges receipt of the following addendum (addenda):

_____ and _____

_____ and _____

_____ and _____

_____ and _____

The undersigned Bidder agrees that this bid shall be good and shall not be withdrawn for a period of sixty (60) calendar days after the opening thereof. If written notice of the acceptance of this Proposal is mailed, telegraphed, or delivered to the undersigned within sixty (60) days after the opening thereof, or at any time thereafter before this Proposal is withdrawn, the undersigned agrees to execute and deliver an Agreement (Contract) in the prescribed form, and furnish the required Performance and Payment Bond, within ten (10) days after the Agreement is presented to him for signature.

It is understood by the undersigned Bidder that the Owner reserves the right to reject any or all bids.

Accompanying this Proposal as bid security is a certified check/bid bond (*strike one*)

in the amount of _____ Dollars (\$_____), being not less than five percent (5%) of the total amount of the bid. If the undersigned Bidder is the successful Bidder, but fails or refuses to execute the contract and furnish the required bond within the prescribed ten (10) days of the notification of award, then this bid security is to become the property of the Owner as liquidated damages for the delay and additional expense to the Owner caused by such failure or refusal.

BIDDER: *[Indicate correct name of bidding entity]*

By:

[Signature] _____

[Printed name] _____

(If Bidder is a corporation, a limited liability company, a partnership, or a joint venture, attach evidence of authority to sign.)

Attest:

[Signature] _____

[Printed name] _____

Title: _____

Submittal Date: _____

Address for giving notices: _____

Telephone Number: _____

Contact Name and e-mail address: _____

Bidder's License No.: _____

(where applicable)

NOTES:

Sign in ink. Do not detach.
Items must be bid upon as specified
in the Unit Price Schedule.

City of Moore
Sanitary Sewer Utility Relocations for Sh-37 At Little River Bridge
Bid No. 2021-009
Unit Price Schedule – Modified by Addendum 2

ITEM NO.	SPEC #	CODE NO.	DESCRIPTION	UNIT	EST. QTY.	UNIT PRICE	BID AMOUNT
1	201(A)	0102	CLEARING AND GRUBING	L.SUM	1		
2	230(A)	2806	SOLID SLAB SODDING S1	S.Y.	710		
3	411	5900	(PL) ASPHALT CONCRETE S7	S.Y.	169		
4	414(A)	5200	P.C. CONCRETE PAVEMENT (PLACEMENT)	S.Y.	64		
5	414(G)	5800	P.C. CONCRETE FOR PAVEMENT	C.Y.	16		
6	501(F)	6352	GRANULAR BACKFILL	C.Y.	978		
7	609(B)	0384	COMBINED CURB AND GUTTER (8" BARRIER)	L.F.	12		
8	610(A)	0605	4" CONCRETE SIDEWALK	S.Y.	8		
9	611(A)	2657	MANHOLE (4' DIAMETER)	EA.	3		
10	611(B)	2680	ADD'L. DEPTH IN MANHOLE (4' DIAMETER)	V.F.	25		
11	612(B)	0642	MANHOLES REBUILT S4	V.F.	40		
12	612(B)	0750	CONNECT TO EXISTING MANHOLE	EA.	3		
13	612(M)	0706	REMOVE AND RESET MANHOLE FRAME & COVER	EA.	3		
14	613(R)	1185	STANDARD BEDDING MATERIAL, CLASS A	C.Y.	42		
15	613(V)	1180	TRENCH EXCAVATION	C.Y.	1020		
16	613(Y)	0110	(PL) VIDEO INSPECTION OF CONDUIT S2	L.SUM	1		
17	615(A)	6125	12" POLYVINYL CHLORIDE (PVC) PIPE ROUND	L.F.	185		
18	615(A)	6132	18" POLYVINYL CHLORIDE (PVC) PIPE ROUND	L.F.	86		
19	615(A)	6134	24" POLYVINYL CHLORIDE (PVC) PIPE ROUND	L.F.	264		
20	615(B)	0300	SANITARY SEWER SERVICE CONNECTION S3	EA.	1		
21	615(C)	0300	SANITARY SEWER SERVICE LINE	L.F.	10		
22	615(F)	0600	SEWER FLOW CONTROL S5	L.SUM	1		
23	616(I)	5264	18" STEEL CASING	L.F.	104		
24	616(I)	5282	36" STEEL CASING	L.F.	170		
25	619(B)	4726	REMOVAL OF CURB AND GUTTER	L.F.	12		
26	619(B)	4727	REMOVAL OF CONCRETE PAVEMENT	S.Y.	64		
27	619(B)	4728	REMOVAL OF ASPHALT PAVEMENT	S.Y.	169		
28	619(B)	4742	REMOVAL OF MANHOLES	EA.	3		
29	619(B)	4792	REMOVAL OF SIDEWALK	S.Y.	8		
30	619(B)	8660	PLUGGING ABANDONED SEWER	EA.	5		
31	642(A)	0095	CONSTRUCTION STAKING LEVEL II	L.SUM	1		
32	880(J)	8905	CONSTRUCTION TRAFFIC CONTROL S6	L.SUM	1		

Total Bid _____

(written out)

(\$ _____)

SUMMARY OF PAY QUANTITIES - SANITARY SEWER						
390 SANITARY SEWER						
ITEM NO.	SPEC #	CODE NO.	DESCRIPTION	UNIT	QUANTITY	AS BUILT
1	201(A)	0102	CLEARING AND GRUBING	L.SUM	1	
2	230(A)	2806	SOLID SLAB SODDING	S1	710	
3	411	5900	(PL) ASPHALT CONCRETE	S7	169	
4	414(A)	5200	P.C. CONCRETE PAVEMENT (PLACEMENT)	S.Y.	64	△
5	414(G)	5800	P.C. CONCRETE FOR PAVEMENT	C.Y.	16	
6	501(F)	6352	GRANULAR BACKFILL	C.Y.	978	
7	609(B)	0384	COMBINED CURB AND GUTTER (8" BARRIER)	L.F.	12	
8	610(A)	0605	4" CONCRETE SIDEWALK	S.Y.	8	
9	611(A)	2657	MANHOLE (4' DIAMETER)	EA.	3	
10	611(B)	2680	ADD'L DEPTH IN MANHOLE (4' DIAMETER)	V.F.	25	
11	612(B)	0642	MANHOLES REBUILT	S4	40	
12	612(B)	0750	CONNECT TO EXISTING MANHOLE	EA.	3	
13	612(M)	0706	REMOVE AND RESET MANHOLE FRAME & COVER	EA.	3	
14	613(R)	1185	STANDARD BEDDING MATERIAL, CLASS A	C.Y.	42	
15	613(V)	1180	TRENCH EXCAVATION	C.Y.	1020	
16	613(Y)	0110	(PL) VIDEO INSPECTION OF CONDUIT	S2	1	
17	615(A)	6125	12" POLYVINYL CHLORIDE (PVC) PIPE ROUND	L.F.	185	
18	615(A)	6132	18" POLYVINYL CHLORIDE (PVC) PIPE ROUND	L.F.	86	
19	615(A)	6134	24" POLYVINYL CHLORIDE (PVC) PIPE ROUND	L.F.	264	
20	615(B)	0300	SANITARY SEWER SERVICE CONNECTION	S3	1	
21	615(C)	0300	SANITARY SEWER SERVICE LINE	L.F.	10	
22	615(F)	0600	SEWER FLOW CONTROL	S5	1	
23	616(I)	5264	18" STEEL CASING	L.F.	104	△
24	616(I)	5282	36" STEEL CASING	L.F.	170	
25	619(B)	4726	REMOVAL OF CURB AND GUTTER	L.F.	12	
26	619(B)	4727	REMOVAL OF CONCRETE PAVEMENT	S.Y.	64	△
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29	619(B)	4792	REMOVAL OF SIDEWALK	S.Y.	8	
30	619(B)	8660	PLUGGING ABANDONED SEWER	EA.	5	
31	642(A)	0095	CONSTRUCTION STAKING LEVEL II	L.SUM	1	
32	880(J)	8905	CONSTRUCTION TRAFFIC CONTROL	S6	1	

PAY ITEM NOTES:

- S1. COST TO INCLUDE ALL SOD REQUIRED TO REPAIR ALL DISTURBED AREAS. REPLACEMENT SOD SHALL BE LIKE KIND (BERMUDA OR FESCUE) OF EXISTING CONDITIONS.
- S2. CONTRACTOR SHALL CONDUCT VIDEO INSPECTION PRIOR TO CONSTRUCTION AND POST CONSTRUCTION FOR ALL PIPE TO BE REHABILITATED. THREE COPIES OF POST CONSTRUCTION VIDEO SHALL BE PROVIDED TO THE OWNER.
- S3. CONTRACTOR TO RECONNECT ALL EXISTING SANITARY SEWER CONNECTIONS AND PROVIDE ALL NECESSARY HDPE OR PVC (SDR 26) PIPING TO COMPLETE THE CONNECTION.
- S4. CONTRACTOR TO REHABILITATE MANHOLES AS DESIGNATED ON THE DRAWINGS. REHABILITATION METHOD SHALL USE A CEMENTITIOUS MATERIAL AND APPLIED TO A THICKNESS OF ½ INCH. STRONG SEAL MS-2C OR ENGINEER APPROVED EQUAL TO REQUIREMENTS OF ASTM D1190.
- S5. ALL FLOW CONTROL EQUIPMENT, HOSES, AND OTHER DEVICES SHALL BE FREE OF ANY LEAKS, AND INSPECTED DAILY FOR THE PRESENCE OF NEW LEAKS. LEAKING EQUIPMENT SHALL BE REPAIRED OR REPLACED IMMEDIATELY.
- S6. ALL SIGNS, BARRICADES, WARNING LIGHTS AND OTHER TRAFFIC CONTROL DEVICES USED FOR CONSTRUCTION TRAFFIC CONTROL SHALL MEET THE REQUIREMENTS OF THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS AS PERTAINS TO SHAPE, SIZE, COLOR, MOUNTING HEIGHT, AND PLACEMENT.
- S7. ASPHALT CONCRETE PAVEMENT SHALL BE 5" THICK (3" TYPE A (S3-64-22), 2" TYPE B (S4-64-22))

GENERAL CONSTRUCTION NOTES:

1. ALL WORK PERFORMED AND MATERIALS SUPPLIED SHALL CONFORM TO THE PLANS AND/OR PROJECT SPECIFICATIONS. ANY WORK NOT COVERED IN THE PLANS OR SPECIFICATIONS SHALL CONFORM TO THE "STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, OKLAHOMA DEPARTMENT OF TRANSPORTATION, EDITION OF 2009" AND SUPPLEMENTALS.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING ALL UTILITY COMPANIES AND GOVERNMENTAL AGENCIES WHO MIGHT HAVE UTILITY LINES ON OR ABOUT THE PREMISES, OR WHO MIGHT BE AFFECTED BY THE CONSTRUCTION. THE CONTRACTOR SHALL ALSO COORDINATE THEIR ACTIVITIES WITH THE UTILITY COMPANIES TO ENSURE COMPLIANCE WITH THE PROJECT SCHEDULE. THE CONTRACTOR SHALL MAKE EVERY EFFORT TO PROTECT EXISTING UTILITY LINES, AND SHALL REPAIR ANY DAMAGES AT THEIR OWN EXPENSE.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ERECTING AND MAINTAINING BARRICADES AND OTHER TRAFFIC WARNING DEVICES AS NECESSARY AROUND THE PERIMETER OF CONSTRUCTION AND ADJACENT TO ANY OPEN TRENCHES.
4. ALL VALVE BOXES, MANHOLE LIDS, AND SEWER CLEAN-OUTS LOCATED IN PAVED AREAS, SHALL BE H-20 TRAFFIC RATED.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ELEVATIONS AND ADJUSTING ALL COVERS AND LIDS IN PAVED AREAS TO FINISHED GRADE. ALL FIELD ADJUSTMENTS SHALL BE NOTED AND BROUGHT TO THE ENGINEER'S ATTENTION FOR APPROVAL.
6. CONTRACTOR SHALL FIELD VERIFY AND REPORT TO THE ENGINEER ALL EXISTING UTILITIES ELEVATIONS THAT CROSS OR CONFLICT WITH PROPOSED CONSTRUCTION PRIOR TO BEGINNING ANY WORK.
7. CONTACT UTILITY PROVIDERS AND OWNER 48 HOURS PRIOR TO CONNECTION TO EXISTING UTILITY LINES.
8. UTILITY CONTRACTORS MUST VISIT THE SITE AND BE FAMILIAR WITH ALL EXISTING CONDITIONS PRIOR TO PROVIDING A BID.
9. CONTRACTOR SHALL SOLELY BE RESPONSIBLE FOR ALL REQUIRED TRENCH SHORING.

SANITARY SEWER GENERAL NOTES:

- A. THE CONTRACTOR SHALL COMPLY WITH ALL CITY OF MOORE ORDINANCES WHEN STOCKPILING AND STORING MATERIALS AND EQUIPMENT. STOCKPILES AND EQUIPMENT SHALL BE KEPT OUTSIDE OF THE FLOOD PLAIN AS TO NOT OBSTRUCT STORM WATER FLOWS.
- B. THE CONTRACTOR MUST COORDINATE ALL ROADWAY AND STREET CLOSURES WITH THE CITY'S TRAFFIC ENGINEERING MANAGER A MINIMUM OF TEN (10) WORKING DAYS PRIOR TO ANY STREET CLOSURE. ONLY ONE HALF OF SH-37 MAY BE CLOSED AT ANY ONE TIME DURING THE DURATION OF THIS PROJECT.
- C. CONTRACTOR SHALL TAKE PRE-CONSTRUCTION AND POST-CONSTRUCTION VIDEO OF THE PROJECT SITE. VIDEO SHALL PARTICULARLY SHOW THE PROPERTY CONDITIONS (TREES, FENCES, LANDSCAPING, ETC...) ALONG AND ADJACENT TO THE PROJECT. CONTRACTOR SHALL SUBMIT SEQUENCE OF CONSTRUCTION PLANS FOR APPROVAL PRIOR TO THE START OF CONSTRUCTION.
- D. CONTRACTOR SHALL COORDINATE WITH ALL AFFECTED UTILITY OWNERS ANY TEMPORARY SERVICES, POWER POLE STABILIZATION, OR UTILITY SUPPORTS NECESSARY FOR CONSTRUCTION.
- E. THE CONTRACTOR SHALL PROTECT ALL EXISTING PRIVATE SPRINKLER SYSTEMS LOCATED IN THE PROJECT LIMITS AND SHALL REPAIR ANY DAMAGES AT HIS OWN EXPENSE.

REGULATORY NOTES:

1. IN ACCORDANCE WITH OAC 252:656-5-4(C), THE FOLLOWING MINIMUM SEPARATION DISTANCES BETWEEN SEWER LINES AND OTHER UTILITIES ARE REQUIRED, SHOULD SUCH UTILITIES BE UNEXPECTEDLY ENCOUNTERED DURING CONSTRUCTION:
- 1.1. TEN FEET HORIZONTALLY AND TWO FEET VERTICALLY FROM WATER LINES. WHEN IT IS IMPOSSIBLE TO OBTAIN SUCH HORIZONTAL SEPARATION BETWEEN THE WATER AND SEWER LINES, CONSTRUCT THE SEWER LINE OF WATER PIPE AND PRESSURE TEST IT TO ASSURE WATER TIGHTNESS.
- 1.2. FIFTY FEET FROM PETROLEUM PRODUCT TANKS UNLESS THE SEWER LINE IS CONSTRUCTED OF DUCTILE IRON PIPE WHICH SHALL BE NO CLOSER THAN 10 FEET WITH JOINT MATERIAL RESISTANT TO PETROLEUM PRODUCTS.
- 1.3. THREE HUNDRED FEET FROM PUBLIC WATER SUPPLY WELL AND FIFTY FEET FROM PRIVATE WATER WELLS.
- 1.4. FIVE FEET HORIZONTALLY FROM EXISTING OR PROPOSED ELECTRICAL AND PETROLEUM LINES.
2. IN ACCORDANCE WITH OAC 252:656-5-5(B), LEAKAGE TESTS ARE REQUIRED FOR ALL GRAVITY LINES. HYDROSTATIC TESTS MUST USE A 2-FOOT TEST HEAD AND LEAKAGE INWARD OR OUTWARD MUST NOT EXCEED 10 GALLONS PER INCH OF PIPE DIAMETER PER MILE PER DAY.
3. IN ACCORDANCE WITH OAC 252:656-5-4(G)(6), MANHOLE BASES SHALL BE AT LEAST 8 INCHES THICK, WITH A DIAMETER 8 INCHES MORE THAN THE LARGEST OUTSIDE DIAMETER OF THE MANHOLE. MANHOLES SHALL BE CONSTRUCTED WITH LEAK PROOF JOINTS BETWEEN THE BASE AND THE MANHOLE.

3/23/2021 5:03 PM

SCPrice

ODOT-P&P 30 SCALE

Proposed Sansew Relocation - ODOT-P&P 30 Scale

DWG

Proposed Sansew Relocation

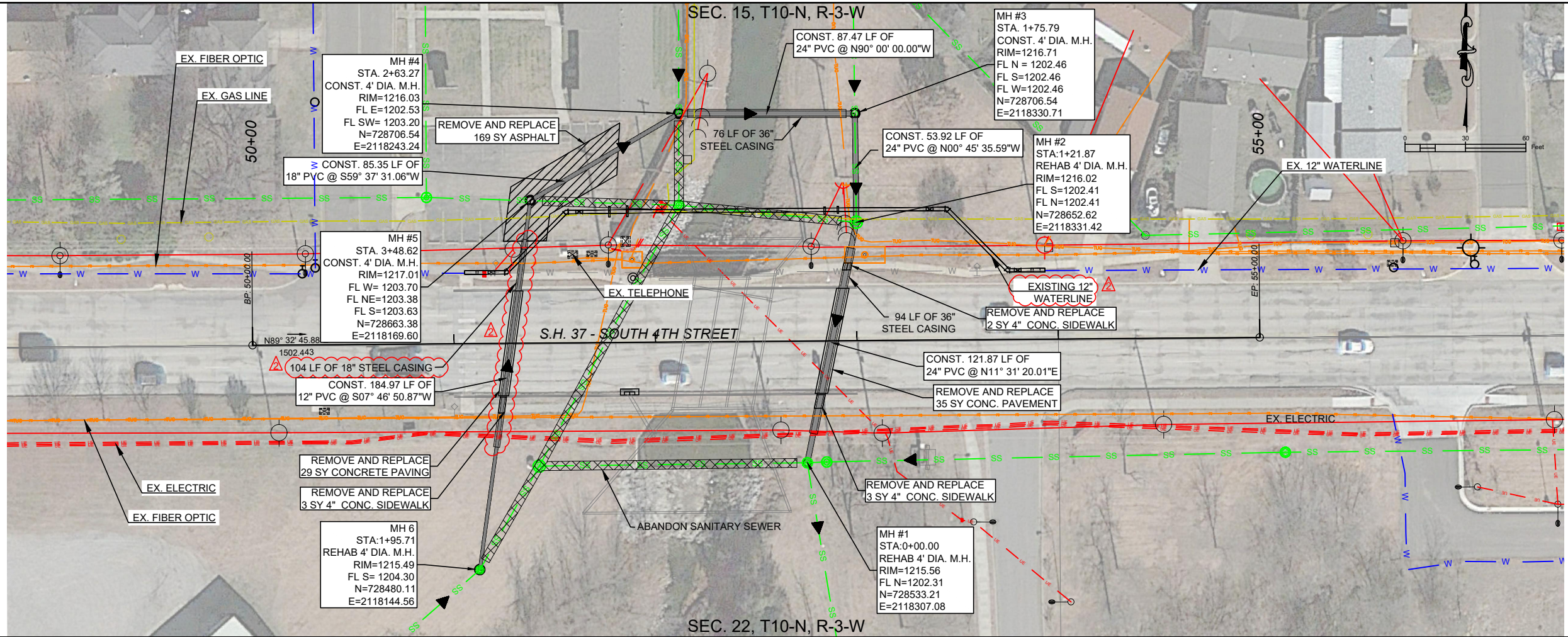
at Little River Utility Relocations

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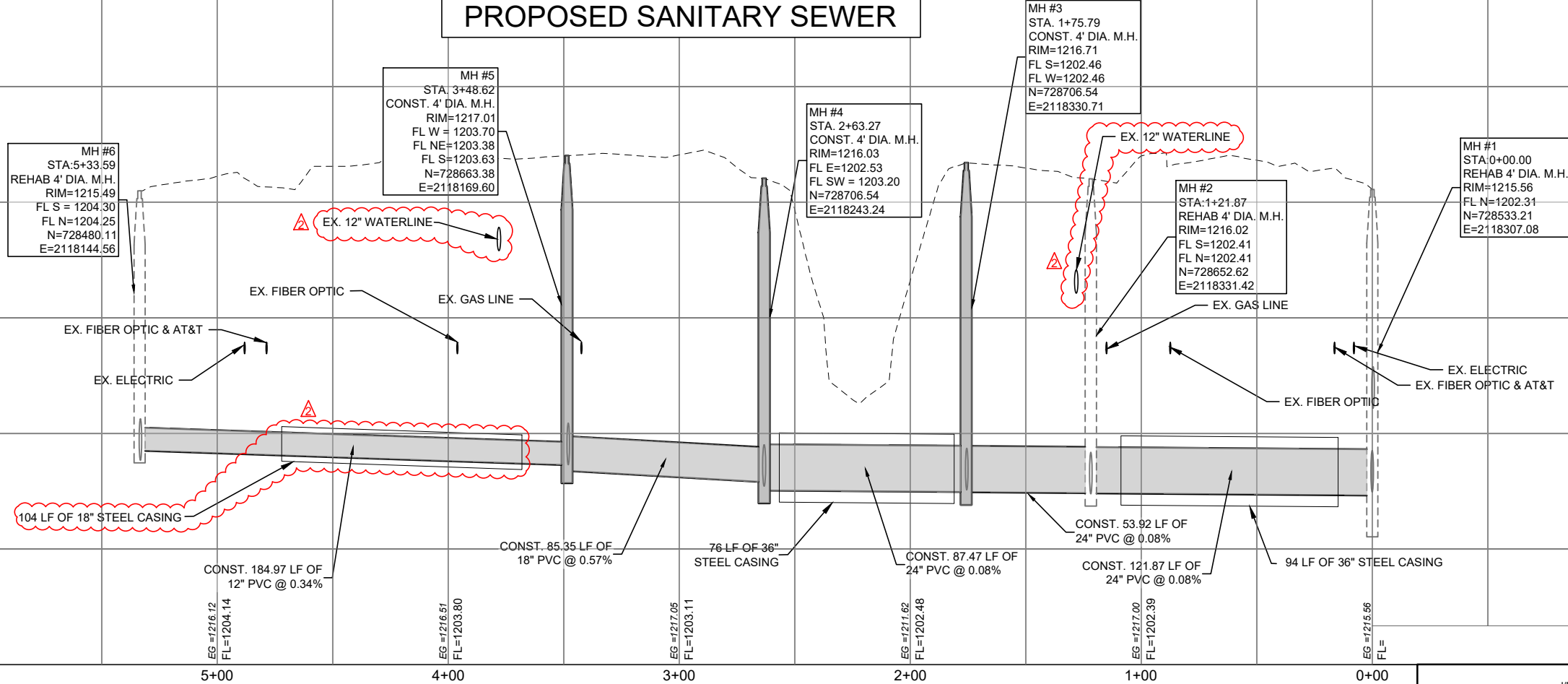
at Little River Utility Relocations



REVISION	DATE
ADDENDUM #2	3/23/21

MANHOLE ROADWAY STATIONING		
MANHOLE	STATION	OFFSET
MH #1	STA. 52+74.91	60.47 RT
MH #2	STA. 53+00.17	58.77 LT
MH #3	STA. 52+99.86	112.67 LT
MH #4	STA. 52+12.42	113.36 LT
MH #5	STA. 51+38.44	70.77 LT
MH #6	STA. 51+11.97	112.26 RT

ROADWAY CROSSINGS		
NO.	STATION	DIAMETER
1	STA. 51+28.21	12" CARRIER
2	STA. 52+87.73	24" CARRIER



SCALE: HORIZ 1" = 30'
VERT 1" = 3'

STATE JOB NO. J/P 31257 SHEET NO. 4