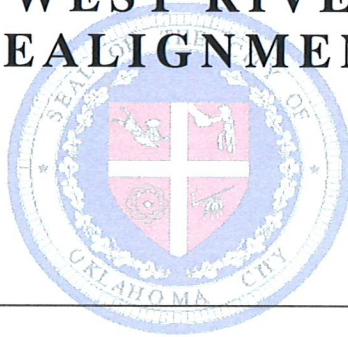


ENGINEERING REPORT FOR

M3-T005

**MAPS 3 WEST RIVER TRAIL
REALIGNMENT**



PREPARED FOR
THE CITY OF OKLAHOMA CITY
BY:



SMITH ROBERTS BALDISCHWILER, LLC

Consulting Engineers - Certificate of Authorization No. 3949

100 N.E. 5TH ST.

OKLAHOMA CITY, OKLAHOMA 73104

TEL.: 405/840-7094 FAX: 405/840-9116

E-MAIL: SRB@SRBOK.COM

SRB Proj. #116088

JUNE 2020

THE CITY OF OKLAHOMA CITY
APPROVAL SHEET
ENGINEERING REPORT
M3-T005
MAPS 3 WEST RIVER TRAIL REALIGNMENT

Prepared By:

SMITH ROBERTS BALDISCHWILER, LLC

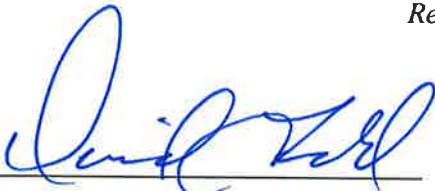
Consulting Engineers – Certificate of Authorization No. 3949
100 N. E. 5th Street, Oklahoma City, Oklahoma 73104
Tel: 405/840-7094 Fax: 405/840-9116
E-mail: srb@smith-roberts.com



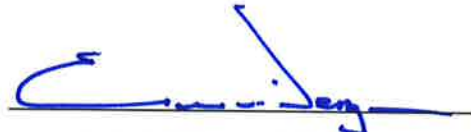
Grady J. Wade, P.E.



Recommended for Approval:



David E. Todd, P.E.
Program Manager



Eric J. Wenger, P.E., Director
Public Works/City Engineer

APPROVED by the Council of the City of Oklahoma City this _____ day of _____, 20____.

ATTEST:

City Clerk

Mayor

THE CITY OF OKLAHOMA CITY

TABLE OF CONTENTS

SCOPE OF SERVICES.....	1
PROJECT DESCRIPTION.....	2
COST ESTIMATE.....	5
SUMMARY.....	6

Appendices:

- *A: Overall Trail/Right of Way/Easement Layout*
- *B: All Option Layouts*
- *C: Detailed Cost Estimates*

SCOPE OF SERVICES

Smith Roberts Baldischwiler, LLC was retained to explore the viability of realigning the MAPS 3 West River Trail due to the changing condition of the east riverbank of the North Canadian Creek. The realignment will be located on the south side of I-40, in the vicinity of the W. I-40 Service Road and Melvin Young Boulevard and S.W. 8th Street. Approximately 600 feet of the riverbank on the east side of the waterway has eroded to a point that it is threatening the West River Trail that runs along the top of the bank immediately west of the Rush Trucking Center. The North Canadian Creek is the outlet from the Lake Overholser dam and feeds the North Canadian/Oklahoma Rivers.

The approach for completion of the preliminary report was as follows:

- Identify current property boundary locations
- Identify Right of Way(RoW)/easements in the area
- Re-align the trail in accordance with Oklahoma City Staff recommendations in conjunction with location of RoW/easements. Staff has requested four alignment options.
- Prepare overall layout exhibits for all options.
- Prepare cost estimate for each alignment option
- Prepare report for selection of new alignment

PROJECT DESCRIPTION

The MAPS 3 West River Trail will be realigned from its current position along the top of the east bank of the North Canadian Creek due to degradation of the creek bank. The four proposed alignment options will all reroute the 12 foot wide asphalt trail east, along the south side of I-40, to the east side of Melvin Young Boulevard (within Oklahoma Department of Transportation (ODOT) property and OG&E 10 foot electrical easement). All options will require a grant of easement from ODOT for the north portion of the alignment and notification to OG&E that work will be occurring within their 100 foot electric line easement. The proposed trail will then proceed southeast while running parallel to Melvin Young Boulevard and end at S.W. 8th Street (this area is within a 100 foot OG&E easement and an Oklahoma City street and utility easement). From this point, the four options are presented as follows: (See appendix B for overall layouts of all options)

Option 1:

From the intersection of Melvin Young Boulevard and S.W. 8th Street the proposed trail will then become an 8 foot wide “share the road” path, utilizing the existing street pavement, going west on S.W. 8th Street within the existing 40 foot roadway & utility easement that encompasses S.W. 8th Street. A transition from concrete to an 8 foot asphalt section will occur at the west end of the existing concrete section of S.W. 8th Street and proceed west to reconnect with the existing trail alignment. The existing gate at C.E.C. Sand, Inc. will need to be replaced and modified and a new fence will need to be constructed on the south side of the trail to accommodate the new location.

Option 2:

From the intersection of Melvin Young Boulevard and S.W. 8th Street the proposed trail will transition to an 8 foot wide asphalt trail after crossing Melvin Young Boulevard in order to minimize the amount of easement needed. This option requires construction outside of the existing roadway and utility easement and will require the purchase of additional easement from Rush Truck Centers of Oklahoma, Inc. (approximately 6'-8' wide) on the north side of S.W. 8th Street in order to place the trail behind the curb and out of the street. It will also require the relocation of the existing drainage channel in the area resulting in a need for temporary easement in the area. The relocation of the drainage channel will also require the extension of the storm sewer pipe at the west end of the channel (pipe size unknown at this time). The existing gate at C.E.C. Sand, Inc. will need to be replaced and modified and a new fence will need to be constructed on the south side of the trail to accommodate the new location. Note that a portion of the permanent easement needed for this option would involve Rush Trucks Centers of Oklahoma and will most likely be very difficult to acquire.

Option 3:

From the intersection of Melvin Young Boulevard and S.W. 8th Street the proposed trail will continue south across the intersection and then proceed west as an 8 foot wide asphalt trail (concrete at driveway crossings) along the south curb line of S.W. 8th Street. This option requires construction outside of the existing roadway and utility easement and will require the purchase of additional easement from Coffey Interest, LLC as well as C.E.C. Sand, Inc. (approximately 8'-10' wide) on the south side of S.W. 8th Street in order to place the trail behind the curb and out of the street. The existing gate at C.E.C. Sand, Inc. will need to be removed and a new fence will need to be constructed on the south side of the trail to accommodate the new location. The access to the C.E.C. Sand, Inc. property would be limited to one drive (far east location) and would limit the ability to access the property with large trucks.

Option 4:

This option proposes the relocation of the curb line on both the north and south sides of S.W. 8th Street in order to eliminate the need to acquire additional easement from Rush Truck Centers of Oklahoma and also eliminate the need to relocate the existing drainage channel. From the intersection of Melvin Young Boulevard and S.W. 8th Street the proposed trail will transition to an 8' wide asphalt trail after crossing Melvin Young Boulevard and proceed west along the back of the newly located curb line. This option requires construction outside of the existing roadway and utility easement and will require the purchase of additional easement from Coffey Interest, LLC as well as C.E.C. Sand, Inc. (approximately 8'-10' wide) on the south side of S.W. 8th Street in order to move the south curb line and maintain a 32 foot wide street section. A portion of the Coffey Interest, LLC driveway will need to be reconstructed to accommodate the new south curb line. This option will also require the relocation of a fire hydrant on the south side of 8th street. The existing gate at C.E.C. Sand, Inc. will need to be replaced and modified and a new fence will need to be constructed on the south side of the trail to accommodate the new location.

Option 5:

This option proposes the relocation of only the curb line on the north side of S.W. 8th Street in order to eliminate the need to acquire additional easement from Rush Truck Centers of Oklahoma and also eliminate the need to relocate the existing drainage channel. From the intersection of Melvin Young Boulevard and S.W. 8th Street the proposed trail will transition to an 8' wide asphalt trail after crossing Melvin Young Boulevard and proceed west along the back of the newly located curb line. This option eliminates the need for any additional easement but will require that the current roadway section is trimmed from 32 feet wide to 24 feet wide. A portion of the Coffey Interest, LLC driveway will need to be reconstructed to accommodate the new south curb line. The existing gate at C.E.C. Sand, Inc. will need to be replaced and modified and a new fence will need to be constructed on the south side of the trail to accommodate the new location.

SITE PROPERTY/RIGHT OF WAY/EASEMENT INVESTIGATION:

Research of the property boundaries in the area, along with Right of Way and easement research, was conducted in order to find the best possible route to re-align the trail away from the degrading bank area. The proposed alignment will require permission from Oklahoma Department of Transportation and OG&E to construct within their respective property/easement.

PRELIMINARY DESIGN PLANS:

Current Oklahoma City two-foot contour maps have been utilized in lieu of topographical survey for the purposes of the preliminary plan set. Upon approval of the proposed alignment/design within this report, topographical survey will be performed in order to more accurately layout the vertical alignment and ensure that the project complies with all grade regulations. (See Appendix B for plan set)

EXISTING BUILDING:

There is an existing two-post canopy with attached picnic table located within the portion of trail that will be removed with the construction of this project. The canopy will be removed and relocated further south and a new concrete pad will be constructed for the new location.

COST ESTIMATES

Option 1:

Estimated Construction Cost	\$464,539.90
<u>Estimated Easement Cost</u>	<u>\$27,180.00</u>
Total Cost	\$491,719.90

Option 2:

Estimated Construction Cost	\$485,048.85
<u>Estimated Easement Cost</u>	<u>\$29,258.00</u>
Total Cost	\$514,306.85

Option 3:

Estimated Construction Cost	\$492,232.95
<u>Estimated Easement Cost</u>	<u>\$55,562.00</u>
Total Cost	\$547,794.95

Option 4:

Estimated Construction Cost	\$532,798.75
<u>Estimated Easement Cost</u>	<u>\$35,546.34</u>
Total Cost	\$568,345.09

Option 5:

Estimated Construction Cost	\$492,444.15
<u>Estimated Easement Cost</u>	<u>\$27,180.00</u>
Total Cost	\$519,624.15

SUMMARY

SRB, LLC staff has examined the project area in order to identify all potential conflicts with topographical features as well as utilities along the proposed alignment. In doing so, it was clear that a portion of the trail would have to be placed within land currently owned by the Oklahoma Department of Transportation and also within current OG&E easements. Both entities will need to be contacted and permission will need to be received before the project can be constructed.

In addition, the area along S.W. 8th Street from Melvin Young Boulevard west to the existing trail is a travel way to the C.E.C. Sand Inc. property. Currently there is a combined 40 feet of Street and Utility Easement (One 30 foot and adjacent 10 foot) dividing the Rush Truck Centers of Oklahoma property to the north and the C.E.C. Sand Inc./Coffey Interest, LLC properties to the south. An existing waterline and overhead power lines occupy the south side of S.W. 8th street and make it very difficult to potentially place the new trail on the south side. The north side of S.W. 8th Street is totally occupied by the Rush Truck Centers of Oklahoma property and parking lot. The City of Oklahoma City has expressed concern with Option 1 utilizing a “share the road” section; that in conjunction with constructability/easement concerns with Options 2, 3, & 4 has led us to recommend the selection of Option 5 as the preferred alignment to proceed to final plans. Option 5 eliminates the need for any further easement acquisition outside of the ODOT property on the north end of the project. Also, with the relocation of the north curb, the concern for the “share the road” section has been eliminated while still allowing the C.E.C. Sand company to maintain their yard access with little disruption. No utilities will be affected by this option and the channel on the north side of S.W. 8th street can be avoided with the extra room provided with the relocated curb.

Smith Roberts Baldischwiler, LLC recommends that Oklahoma City grants authority to move forward with this contract to develop final plans & specification documents for the Option 5 detailed in this report.

APPENDIX A

APPENDIX B

APPENDIX C



ENGINEERING SURVEYING PLANNING

ENGINEER'S ESTIMATE

PROJECT: WC-0946 WATER MAIN REPLACEMENT
LOC.: CITY-WIDE WATER LINES
CLIENT: CITY OF OKLAHOMA CITY
DATE: 1/30/2019

OPTION 1 - SUMMARY OF PAY QUANTITIES							
ITEM NO.	SPEC. NO.	ITEM	UNIT	QUANTITY	AS-BUILT	ESTIMATED UNIT BID	AMOUNT
1	200-00	Unclassified Excavation	C.Y.	1,364.00		\$ 15.00	\$ 20,460.00
2	201-00	Embankment	C.Y.	1,033.00		\$ 18.00	\$ 18,594.00
3	220-00	Stabilized Subgrade (6 inches)	S.Y.	4,148.00		\$ 7.50	\$ 31,110.00
4	301-11	Asphalt Concrete Type S4 (2")	S.Y.	3,535.00		\$ 10.00	\$ 35,350.00
5	301-18	Asphaltic Concrete Type S3 (3")	S.Y.	3,535.00		\$ 14.00	\$ 49,490.00
6	305-SP	Header Curb	L.F.	6,080.00		\$ 6.00	\$ 36,480.00
7	404-00	Structural Concrete	C.Y.	96.90		\$ 400.00	\$ 38,760.00
8	404-01	Concrete Class A	C.Y.	5.00		\$ 125.00	\$ 625.00
9	408-00	Structural Steel	LBS.	10,403.00		\$ 2.00	\$ 20,806.00
10	729-00	Sheet Aluminum Signs	S.F.	33.00		\$ 20.00	\$ 660.00
11	729-10	Remove & Relocate Sign	EA.	5.00		\$ 100.00	\$ 500.00
12	733-00	2 1/2" Square Steel Sign Post	L.F.	24.00		\$ 10.00	\$ 240.00
13	733-SP	Cedar Sign Post (4" x 4")	L.F.	72.00		\$ 25.00	\$ 1,800.00
14	735-00	Traffic Stripe (Plastic) (4 Inch Wide)	L.F.	3,400.00		\$ 1.00	\$ 3,400.00
15	801-00	Construction Staking (Construction Survey)	L.S.	1.00		\$ 6,500.00	\$ 6,500.00
16	801-01	GPS "As-Built" Survey	L.S.	1.00		\$ 3,500.00	\$ 3,500.00
17	801-03	Color Audio/Video Recording, Pre & Post Construction	L.S.	1.00		\$ 1,500.00	\$ 1,500.00
18	802-00	Construction Signing & Traffic Control	L.S.	1.00		\$ 2,500.00	\$ 2,500.00
19	809-00	Mobilization (SP)	L.S.	1.00		\$ 20,000.00	\$ 20,000.00
20	810-00	Clearing & Grubbing	L.S.	1.00		\$ 2,000.00	\$ 2,000.00
21	812-03	Concrete Pavement Removal	S.Y.	25.00		\$ 15.00	\$ 375.00
22	812-04	Asphalt Pavement Removal	S.Y.	1,667.00		\$ 15.00	\$ 25,005.00
23	819-08	Remove and Relocate (2-Post Canopy & Picnic Table)	EA.	1.00		\$ 320.00	\$ 320.00
24	828-07	Fixed Bollard/Traffic Markers	EA.	4.00		\$ 650.00	\$ 2,600.00
25	828-10	Remove Existing Fence	L.F.	20.00		\$ 12.00	\$ 240.00
26	828-18	Fence - 6' Chain Link (9 Gauge Galvanized) (SP)	L.F.	1,054.00		\$ 35.00	\$ 36,890.00
27	828-SP	Fence - Wood Split Rail	L.F.	278.00		\$ 18.00	\$ 5,004.00
28	828-23	Gate - 14' Chain Link	EA.	2.00		\$ 1,500.00	\$ 3,000.00
29	830-00	Wheelchair Ramp	EA.	3.00		\$ 2,500.00	\$ 7,500.00
30	830-01	Tactile Markers/Truncated Domes	S.F.	60.00		\$ 30.00	\$ 1,800.00
31	840-00	Solid Slab Sodding	L.S.	1.00		\$ 14,000.00	\$ 14,000.00
32	900-03	Filter Fabric Silt Fence - Complete in Place	L.F.	6,800.00		\$ 3.50	\$ 23,800.00
33	SPEC.	Relocation of Existing Canopy & Pad	L.S.	1.00		\$ 7,500.00	\$ 7,500.00
						SUB-TOTAL	\$ 422,309.00
						Contingency (10%)	\$ 42,230.90
						TOTAL	\$ 464,539.90
		Additional Temporary Easement	S.F.	unknown		\$0.25	\$ -
		Additional Permanent Easement	S.F.	13,590		\$2.00	\$ 27,180.00
						SUB-TOTAL	\$ 27,180.00
						TOTAL	\$ 491,719.90



ENGINEERING SURVEYING PLANNING

ENGINEER'S ESTIMATE

PROJECT: WC-0946 WATER MAIN REPLACEMENT
 LOC.: CITY-WIDE WATER LINES
 CLIENT: CITY OF OKLAHOMA CITY
 DATE: 1/30/2019

OPTION 2 - SUMMARY OF PAY QUANTITIES							
ITEM NO.	SPEC. NO.	ITEM	UNIT	QUANTITY	AS-BUILT	ESTIMATED UNIT BID	AMOUNT
1	200-00	Unclassified Excavation	C.Y.	1,364.00		\$ 15.00	\$ 20,460.00
2	201-00	Embankment	C.Y.	1,033.00		\$ 18.00	\$ 18,594.00
3	220-00	Stabilized Subgrade (6 inches)	S.Y.	4,285.00		\$ 7.50	\$ 32,137.50
4	301-11	Asphalt Concrete Type S4 (2")	S.Y.	3,726.00		\$ 10.00	\$ 37,260.00
5	301-18	Asphaltic Concrete Type S3 (3")	S.Y.	3,726.00		\$ 14.00	\$ 52,164.00
6	305-SP	Header Curb	L.F.	6,498.00		\$ 6.00	\$ 38,988.00
7	404-00	Structural Concrete	C.Y.	96.90		\$ 400.00	\$ 38,760.00
8	404-01	Concrete Class A	C.Y.	5.00		\$ 125.00	\$ 625.00
9	408-00	Structural Steel	LBS.	10,403.00		\$ 2.00	\$ 20,806.00
10	729-00	Sheet Aluminum Signs	S.F.	33.00		\$ 20.00	\$ 660.00
11	729-10	Remove & Relocate Sign	EA.	5.00		\$ 100.00	\$ 500.00
12	733-00	2 1/2" Square Steel Sign Post	L.F.	24.00		\$ 10.00	\$ 240.00
13	733-SP	Cedar Sign Post (4" x 4")	L.F.	72.00		\$ 25.00	\$ 1,800.00
14	735-00	Traffic Stripe (Plastic) (4 Inch Wide)	L.F.	3,400.00		\$ 1.00	\$ 3,400.00
15	801-00	Construction Staking (Construction Survey)	L.S.	1.00		\$ 6,500.00	\$ 6,500.00
16	801-01	GPS "As-Built" Survey	L.S.	1.00		\$ 3,500.00	\$ 3,500.00
17	801-03	Color Audio/Video Recording, Pre & Post Construction	L.S.	1.00		\$ 1,500.00	\$ 1,500.00
18	802-00	Construction Signing & Traffic Control	L.S.	1.00		\$ 2,500.00	\$ 2,500.00
19	809-00	Mobilization (SP)	L.S.	1.00		\$ 20,000.00	\$ 20,000.00
20	810-00	Clearing & Grubbing	L.S.	1.00		\$ 2,000.00	\$ 2,000.00
21	812-03	Concrete Pavement Removal	S.Y.	25.00		\$ 15.00	\$ 375.00
22	812-04	Asphalt Pavement Removal	S.Y.	1,667.00		\$ 15.00	\$ 25,005.00
23	819-08	Remove and Relocate (2-Post Canopy & Picnic Table)	EA.	1.00		\$ 320.00	\$ 320.00
24	828-07	Fixed Bollard/Traffic Markers	EA.	4.00		\$ 650.00	\$ 2,600.00
25	828-10	Remove Existing Fence	L.F.	20.00		\$ 12.00	\$ 240.00
26	828-18	Fence - 6' Chain Link (9 Gauge Galvanized) (SP)	L.F.	1,069.00		\$ 35.00	\$ 37,415.00
27	828-SP	Fence - Wood Split Rail	L.F.	278.00		\$ 18.00	\$ 5,004.00
28	828-23	Gate - 14' Chain Link	EA.	2.00		\$ 1,500.00	\$ 3,000.00
29	830-00	Wheelchair Ramp	EA.	4.00		\$ 2,500.00	\$ 10,000.00
30	830-01	Tactile Markers/Truncated Domes	S.F.	60.00		\$ 30.00	\$ 1,800.00
31	840-00	Solid Slab Sodding	L.S.	1.00		\$ 14,000.00	\$ 14,000.00
32	900-03	Filter Fabric Silt Fence - Complete in Place	L.F.	6,800.00		\$ 3.50	\$ 23,800.00
33	SPEC.	RCP Extension	L.S.	1.00		\$ 3,500.00	\$ 3,500.00
34	SPEC.	Relocate Drainage Channel	L.S.	1.00		\$ 15,000.00	\$ 15,000.00
35	SPEC.	Relocation of Existing Canopy & Pad	L.S.	1.00		\$ 7,500.00	\$ 7,500.00
						SUB-TOTAL	\$ 451,953.50
						Contingency (10%)	\$ 45,195.35
						TOTAL	\$ 497,148.85
		Additional Temporary Easement	S.F.	unknown		\$0.25	\$ -
		Additional Permanent Easement	S.F.	14,629		\$2.00	\$ 29,258.00
						SUB-TOTAL	\$ 29,258.00
						TOTAL	\$ 526,406.85



ENGINEERING SURVEYING PLANNING

ENGINEER'S ESTIMATE

PROJECT: WC-0946 WATER MAIN REPLACEMENT
LOC.: CITY-WIDE WATER LINES
CLIENT: CITY OF OKLAHOMA CITY
DATE: 1/30/2019

OPTION 3 - SUMMARY OF PAY QUANTITIES							
ITEM NO.	SPEC. NO.	ITEM	UNIT	QUANTITY	AS-BUILT	ESTIMATED UNIT BID	AMOUNT
1	200-00	Unclassified Excavation	C.Y.	1,364.00		\$ 15.00	\$ 20,460.00
2	201-00	Embankment	C.Y.	1,033.00		\$ 18.00	\$ 18,594.00
3	220-00	Stabilized Subgrade (6 inches)	S.Y.	3,853.00		\$ 7.50	\$ 28,897.50
4	301-11	Asphalt Concrete Type S4 (2")	S.Y.	3,350.00		\$ 10.00	\$ 33,500.00
5	301-18	Asphaltic Concrete Type S3 (3")	S.Y.	3,350.00		\$ 14.00	\$ 46,900.00
6	305-SP	Header Curb	L.F.	6,498.00		\$ 6.00	\$ 38,988.00
7	404-00	Structural Concrete	C.Y.	96.90		\$ 400.00	\$ 38,760.00
8	404-01	Concrete Class A	C.Y.	5.00		\$ 125.00	\$ 625.00
9	408-00	Structural Steel	LBS.	10,403.00		\$ 2.00	\$ 20,806.00
10	729-00	Sheet Aluminum Signs	S.F.	33.00		\$ 20.00	\$ 660.00
11	729-10	Remove & Relocate Sign	EA.	5.00		\$ 100.00	\$ 500.00
12	733-00	2 1/2" Square Steel Sign Post	L.F.	24.00		\$ 10.00	\$ 240.00
13	733-SP	Cedar Sign Post (4" x 4")	L.F.	72.00		\$ 25.00	\$ 1,800.00
14	735-00	Traffic Stripe (Plastic) (4 Inch Wide)	L.F.	3,400.00		\$ 1.00	\$ 3,400.00
15	801-00	Construction Staking (Construction Survey)	L.S.	1.00		\$ 6,500.00	\$ 6,500.00
16	801-01	GPS "As-Built" Survey	L.S.	1.00		\$ 3,500.00	\$ 3,500.00
17	801-03	Color Audio/Video Recording, Pre & Post Construction	L.S.	1.00		\$ 1,500.00	\$ 1,500.00
18	802-00	Construction Signing & Traffic Control	L.S.	1.00		\$ 2,500.00	\$ 2,500.00
19	809-00	Mobilization (SP)	L.S.	1.00		\$ 20,000.00	\$ 20,000.00
20	810-00	Clearing & Grubbing	L.S.	1.00		\$ 2,000.00	\$ 2,000.00
21	812-03	Concrete Pavement Removal	S.Y.	25.00		\$ 15.00	\$ 375.00
22	812-04	Asphalt Pavement Removal	S.Y.	1,667.00		\$ 15.00	\$ 25,005.00
23	819-08	Remove and Relocate (2-Post Canopy & Picnic Table)	EA.	1.00		\$ 320.00	\$ 320.00
24	828-07	Fixed Bollard/Traffic Markers	EA.	4.00		\$ 650.00	\$ 2,600.00
25	828-10	Remove Existing Fence	L.F.	20.00		\$ 12.00	\$ 240.00
26	828-18	Fence - 6' Chain Link (9 Gauge Galvanized) (SP)	L.F.	1,306.00		\$ 35.00	\$ 45,710.00
27	828-SP	Fence - Wood Split Rail	L.F.	278.00		\$ 18.00	\$ 5,004.00
28	828-23	Gate - 14' Chain Link	EA.	2.00		\$ 1,500.00	\$ 3,000.00
29	830-00	Wheelchair Ramp	EA.	6.00		\$ 2,500.00	\$ 15,000.00
30	830-01	Tactile Markers/Truncated Domes	S.F.	60.00		\$ 30.00	\$ 1,800.00
31	840-00	Solid Slab Sodding	L.S.	1.00		\$ 14,000.00	\$ 14,000.00
32	900-03	Filter Fabric Silt Fence - Complete in Place	L.F.	6,800.00		\$ 3.50	\$ 23,800.00
33	823-00	Concrete Sidewalk (8' Wide) (4")	S.Y.	200.00		\$ 65.00	\$ 13,000.00
34	SPEC.	Relocation of Existing Canopy & Pad	L.S.	1.00		\$ 7,500.00	\$ 7,500.00
						SUB-TOTAL	\$ 447,484.50
						Contingency (10%)	\$ 44,748.45
						TOTAL	\$ 492,232.95
		Additional Temporary Easement	S.F.	unknown		\$0.25	\$ -
		Additional Permanent Easement	S.F.	27,781		\$2.00	\$ 55,562.00
						SUB-TOTAL	\$ 55,562.00
						TOTAL	\$ 547,794.95



ENGINEERING SURVEYING PLANNING

ENGINEER'S ESTIMATE

PROJECT: WC-0946 WATER MAIN REPLACEMENT
LOC.: CITY-WIDE WATER LINES
CLIENT: CITY OF OKLAHOMA CITY
DATE: 1/30/2019

OPTION 4 - SUMMARY OF PAY QUANTITIES							
ITEM NO.	SPEC. NO.	ITEM	UNIT	QUANTITY	AS-BUILT	ESTIMATED UNIT BID	AMOUNT
1	200-00	Unclassified Excavation	C.Y.	1,364.00		\$ 15.00	\$ 20,460.00
2	201-00	Embankment	C.Y.	1,033.00		\$ 18.00	\$ 18,594.00
3	220-00	Stabilized Subgrade (6 inches)	S.Y.	4,279.00		\$ 7.50	\$ 32,092.50
4	301-11	Asphalt Concrete Type S4 (2")	S.Y.	3,721.00		\$ 10.00	\$ 37,210.00
5	301-18	Asphaltic Concrete Type S3 (3")	S.Y.	3,721.00		\$ 14.00	\$ 52,094.00
6	305-SP	Header Curb	L.F.	6,500.00		\$ 6.00	\$ 39,000.00
7	404-00	Structural Concrete	C.Y.	96.90		\$ 400.00	\$ 38,760.00
8	404-01	Concrete Class A	C.Y.	5.00		\$ 125.00	\$ 625.00
9	408-00	Structural Steel	LBS.	10,403.00		\$ 2.00	\$ 20,806.00
10	729-00	Sheet Aluminum Signs	S.F.	33.00		\$ 20.00	\$ 660.00
11	729-10	Remove & Relocate Sign	EA.	5.00		\$ 100.00	\$ 500.00
12	733-00	2 1/2" Square Steel Sign Post	L.F.	24.00		\$ 10.00	\$ 240.00
13	733-SP	Cedar Sign Post (4" x 4")	L.F.	72.00		\$ 25.00	\$ 1,800.00
14	735-00	Traffic Stripe (Plastic) (4 Inch Wide)	L.F.	3,400.00		\$ 1.00	\$ 3,400.00
15	801-00	Construction Staking (Construction Survey)	L.S.	1.00		\$ 6,500.00	\$ 6,500.00
16	801-01	GPS "As-Built" Survey	L.S.	1.00		\$ 3,500.00	\$ 3,500.00
17	801-03	Color Audio/Video Recording, Pre & Post Construction	L.S.	1.00		\$ 1,500.00	\$ 1,500.00
18	802-00	Construction Signing & Traffic Control	L.S.	1.00		\$ 2,500.00	\$ 2,500.00
19	809-00	Mobilization (SP)	L.S.	1.00		\$ 20,000.00	\$ 20,000.00
20	810-00	Clearing & Grubbing	L.S.	1.00		\$ 2,000.00	\$ 2,000.00
21	812-03	Concrete Pavement Removal	S.Y.	25.00		\$ 15.00	\$ 375.00
22	812-04	Asphalt Pavement Removal	S.Y.	1,667.00		\$ 15.00	\$ 25,005.00
23	819-08	Remove and Relocate (2-Post Canopy & Picnic Table)	EA.	1.00		\$ 320.00	\$ 320.00
24	828-07	Fixed Bollard/Traffic Markers	EA.	4.00		\$ 650.00	\$ 2,600.00
25	828-10	Remove Existing Fence	L.F.	20.00		\$ 12.00	\$ 240.00
26	828-18	Fence - 6' Chain Link (9 Gauge Galvanized) (SP)	L.F.	1,054.00		\$ 35.00	\$ 36,890.00
27	828-SP	Fence - Wood Split Rail	L.F.	278.00		\$ 18.00	\$ 5,004.00
28	828-23	Gate - 14' Chain Link	EA.	2.00		\$ 1,500.00	\$ 3,000.00
29	830-00	Wheelchair Ramp	EA.	4.00		\$ 2,500.00	\$ 10,000.00
30	830-01	Tactile Markers/Truncated Domes	S.F.	60.00		\$ 30.00	\$ 1,800.00
31	840-00	Solid Slab Sodding	L.S.	1.00		\$ 14,000.00	\$ 14,000.00
32	900-03	Filter Fabric Silt Fence - Complete in Place	L.F.	6,800.00		\$ 3.50	\$ 23,800.00
33	823-00	Concrete Sidewalk (8' Wide) (4")	S.Y.	200.00		\$ 65.00	\$ 13,000.00
34	SPEC.	Gravel Drive	S.Y.	127.00		\$ 6.00	\$ 762.00
35	305-00	Concrete Curb and Gutter (6")	L.F.	688.00		\$ 25.00	\$ 17,200.00
36	823-01	8" P.C.C. Pavement	S.Y.	275.00		\$ 75.00	\$ 20,625.00
37	SPEC.	Relocation of Existing Canopy & Pad	L.S.	1.00		\$ 7,500.00	\$ 7,500.00
SUB-TOTAL						\$	484,362.50
Contingency (10%)						\$	48,436.25
TOTAL						\$	532,798.75
		Additional Temporary Easement	S.F.	unknown		\$0.25	-
		Additional Permanent Easement	S.F.	17,773		\$2.00	\$ 35,546.34
SUB-TOTAL						\$	35,546.34
TOTAL						\$	568,345.09



ENGINEERING SURVEYING PLANNING

ENGINEER'S ESTIMATE

PROJECT: WC-0946 WATER MAIN REPLACEMENT
LOC.: CITY-WIDE WATER LINES
CLIENT: CITY OF OKLAHOMA CITY
DATE: 1/30/2019

OPTION 5 - SUMMARY OF PAY QUANTITIES							
ITEM NO.	SPEC. NO.	ITEM	UNIT	QUANTITY	AS-BUILT	ESTIMATED UNIT BID	AMOUNT
1	200-00	Unclassified Excavation	C.Y.	1,364.00		\$ 15.00	\$ 20,460.00
2	201-00	Embankment	C.Y.	1,033.00		\$ 18.00	\$ 18,594.00
3	220-00	Stabilized Subgrade (6 inches)	S.Y.	4,261.00		\$ 7.50	\$ 31,957.50
4	301-11	Asphalt Concrete Type S4 (2")	S.Y.	3,705.00		\$ 10.00	\$ 37,050.00
5	301-18	Asphaltic Concrete Type S3 (3")	S.Y.	3,705.00		\$ 14.00	\$ 51,870.00
6	305-SP	Header Curb	L.F.	6,400.00		\$ 6.00	\$ 38,400.00
7	404-00	Structural Concrete	C.Y.	96.90		\$ 400.00	\$ 38,760.00
8	404-01	Concrete Class A	C.Y.	5.00		\$ 125.00	\$ 625.00
9	408-00	Structural Steel	LBS.	10,403.00		\$ 2.00	\$ 20,806.00
10	729-00	Sheet Aluminum Signs	S.F.	33.00		\$ 20.00	\$ 660.00
11	729-10	Remove & Relocate Sign	EA.	5.00		\$ 100.00	\$ 500.00
12	733-00	2 1/2" Square Steel Sign Post	L.F.	24.00		\$ 10.00	\$ 240.00
13	733-SP	Cedar Sign Post (4" x 4")	L.F.	72.00		\$ 25.00	\$ 1,800.00
14	735-00	Traffic Stripe (Plastic) (4 Inch Wide)	L.F.	3,400.00		\$ 1.00	\$ 3,400.00
15	801-00	Construction Staking (Construction Survey)	L.S.	1.00		\$ 6,500.00	\$ 6,500.00
16	801-01	GPS "As-Built" Survey	L.S.	1.00		\$ 3,500.00	\$ 3,500.00
17	801-03	Color Audio/Video Recording, Pre & Post Construction	L.S.	1.00		\$ 1,500.00	\$ 1,500.00
18	802-00	Construction Signing & Traffic Control	L.S.	1.00		\$ 2,500.00	\$ 2,500.00
19	809-00	Mobilization (SP)	L.S.	1.00		\$ 20,000.00	\$ 20,000.00
20	810-00	Clearing & Grubbing	L.S.	1.00		\$ 2,000.00	\$ 2,000.00
21	812-03	Concrete Pavement Removal	S.Y.	25.00		\$ 15.00	\$ 375.00
22	812-04	Asphalt Pavement Removal	S.Y.	1,667.00		\$ 15.00	\$ 25,005.00
23	819-08	Remove and Relocate (2-Post Canopy & Picnic Table)	EA.	1.00		\$ 320.00	\$ 320.00
24	828-07	Fixed Bollard/Traffic Markers	EA.	4.00		\$ 650.00	\$ 2,600.00
25	828-10	Remove Existing Fence	L.F.	20.00		\$ 12.00	\$ 240.00
26	828-18	Fence - 6' Chain Link (9 Gauge Galvanized) (SP)	L.F.	1,054.00		\$ 35.00	\$ 36,890.00
27	828-SP	Fence - Wood Split Rail	L.F.	278.00		\$ 18.00	\$ 5,004.00
28	828-23	Gate - 14' Chain Link	EA.	2.00		\$ 1,500.00	\$ 3,000.00
29	830-00	Wheelchair Ramp	EA.	4.00		\$ 2,500.00	\$ 10,000.00
30	830-01	Tactile Markers/Truncated Domes	S.F.	60.00		\$ 30.00	\$ 1,800.00
31	840-00	Solid Slab Sodding	L.S.	1.00		\$ 14,000.00	\$ 14,000.00
32	900-03	Filter Fabric Silt Fence - Complete in Place	L.F.	6,800.00		\$ 3.50	\$ 23,800.00
35	305-00	Concrete Curb and Gutter (6")	L.F.	478.00		\$ 25.00	\$ 11,950.00
36	823-01	6" P.C.C. Driveway	S.Y.	74.00		\$ 55.00	\$ 4,070.00
37	SPEC.	Relocation of Existing Canopy & Pad	L.S.	1.00		\$ 7,500.00	\$ 7,500.00
						SUB-TOTAL	\$ 447,676.50
						Contingency (10%)	\$ 44,767.65
						TOTAL	\$ 492,444.15
		Additional Temporary Easement	S.F.	unknown		\$0.25	\$ -
		Additional Permanent Easement	S.F.	13,590		\$2.00	\$ 27,180.00
						SUB-TOTAL	\$ 27,180.00
						TOTAL	\$ 519,624.15