



Date: December 22, 2020

To: Plan Holders

Company: Contractors

Number of Pages: 19 (Including Cover)

From: Anika Ture - Contract Administration Telephone No. 918-596-9637 Fax No. 918-699-3470 Email – ature@cityoftulsa.org

RE: **PROJECT NO. TMUA-W 18-14 CITYWIDE 2**" WATERLINE **REPLACEMENT IN THE VICINITY OF W. EDISON ST. AND N. 65TH W. AVE.**

ADDENDUM NO. 1

Please fax or email a signed cover sheet 918-699-3470 to or <u>jiten@cityoftulsa.org</u> as acknowledgement of receipt.

Thank you,

Signature

Company

Date



December 17, 2020

ADDENDUM NO. 1 TO PROJECT NO. TMUA-W 18-14 CITYWIDE 2" WATERLINE REPLACEMENT IN THE VICINITY OF W. EDISON ST. AND N. 65TH W. AVE.

This Addendum No. 1 consisting of (1) item, submitted by City of Tulsa, and (12) items, submitted by Keithline Engineering Group, is hereby made a part of the Contract Documents to the same extent as though it were originally included therein, and shall supersede anything contained in the Plans and Specifications with which it might conflict. This entire Addendum shall be attached to the Index Sheet of the Contract Documents, recorded on P-6a of the proposal, and submitted with bid. Failure to do so shall result in the bid being deemed non-responsive.

This Addendum No. 1 consists of the following:

- Delete the existing Proposal in its entirety and replace with the revised Proposal found at <u>https://www.cityoftulsa.org/government/departments/engineering-</u> <u>services/construction-bids/</u>. It is the Bidder's responsibility to download the revised Proposal onto their existing thumb drive.
- The attached documents list the detail items that have been modified in Addendum No.
 These documents shall be inclusive and apply to this project.

All other provisions of the Plans and Specifications shall remain in full force and effect.

CITY OF TULSA

Paul D Zachary, P.E. City Engineer



2-IN WATERLINE REPLACEMENTS PROJECT NO. TMUA-W 18-14

ADDENDUM NO. 1, dated December 16, 2020

This Addendum No. 1, consisting of twelve (12) items, is hereby made a part of the Contract documents to the same extent as though it were originally included therein and shall supersede anything contained in the Plans and Specifications with which it might conflict. This addendum shall be attached to the Index Sheet of the Contract Documents and submitted with the bid. Failure to do so shall result in the bid being deemed non-responsive.

CHANGES:

- 1) Project duration is changed from 150 CDs to 240 CDs.
- 2) Sht 2 Bid Items 47,66,85: 12" DIP CL51 changed to 12" DIP CL50.

REMOVE AND REPLACE:

3) Plan Sheets 2,3,7,8,11,14,17,23,24,27

DELETION:

4) Sht 2, Bid Item 32: REMOVE AND REPAIR ASPHALT PAVEMENT (STD 730) S.Y.

ADDITION of SHT 2 PAY ITEMS (ODOT SPECS) PER UNIT TO REPLACE THE DELETED BID ITEM 32:

- 5) BID ITEM 40: 12" DEPTH UNCLASSIFIED EXCAVATION (INCLUDES EXISTING ASPHALT REMOVAL)
- 6) BID ITEM 41: 6" AGGREGATE BASE TYPE A, 95% SPD
- 7) BID ITEM 42: 6" SUBGRADE METHOD B, 95% SPD
- 8) BID ITEM 43: SEPERATOR FABRIC (MIRAFI RS3801 OR EQUAL)
- 9) BID ITEM 44: FULL-DEPTH SAWCUT
- 10) BID ITEM 45: 4.25" SUPERPAVE TYPE S3 (PG64-22)
- 11) BID ITEM 46: 2" SUPERPAVE TYPE S4 (PG64-22)

ADDITION TO SHT 3 PAY NOTES FOR ASPHALT BID ITEMS 45-46 ABOVE:

12) PAY NOTE 51: APPLIES TO TACK COAT, EDGE JOINT SEAL MATERIAL, SCREENINGS FOR BLOTTING



Dated: December 16, 2020

END of Addendum No. 1

ELECTRONIC BID PROPOSAL INSTRUCTIONS - EXCEL SPREADSHEET PROJECT NO: TMUA-W 18-14 ADDENDUM 1

Please read the following instructions carefully.

- 1. After opening this file re-save it as your company's name.
- 2. Open the BID FORM Sheet from the tabs below.
- 3. Input the unit price of the appropriate pay item in the cells highlighted in blue.
- 4. Review all data input and check calculations to ensure accuracy of Bid.
- 5. Print 1hardcopy of the "PROPOSAL" tab, BID FORM and the "SIGNATURE PAGE" tab.
- 6. Complete and sign the "Signature Page" document.
- 6. Submit hardcopy and electronic disk with Contract Documents and Specifications for Bid opening date.

NOTES:

1. The sheet named "FOR CONTRACTOR USE" shall be used by the contractor to export data to estimating software.

LEGEND

\$ 1.00 Cells Requiring Data Input.

- \$ 1.00 Internal Data Transfer.
- \$ 2.00 Calculated Results.

AGREEMENT FOR USING ELECTRONIC BID PROPOSAL

By and Between: Keithline Engineering Group (ENGINEER) and RECIPIENT. The enclosed electronic media is provided pursuant to your request and is for your limited use in connection with your submittal of Bid Proposal for Project No. **TMUA - W 18-14, 6-IN WATER LINE EXTENSION.** In no event shall the information be used for any other purpose or be released to third parties without the written consent of the ENGINEER. In the event of a discrepancy between the hard copy and this electronic media at delivery or in the future, the hard copy shall govern. ENGINEER hereby disclaims any and all liability for the consequences from use of the electronic media and makes no warranty or guarantee of accuracy. RECIPIENT shall assume full responsibility for the electronic data is compatible with RECIPIENTS computer hardware or software, and ENGINEER's responsibility for the electronic media. Is limited to replacement of defective media for a period of thirty (30) days after delivery to RECIPIENT. !!! By opening and using this FILE, You AGREE to these TERMS AND CONDITIONS!!!

ADDENDUM 1 - PROPOSAL PROJECT NO: TMUA-W 18-14 240 CDs

TO: TULS.

CITY OF TULSA, OKLAHOMA

THE UNDERSIGNED BIDDER, having carefully examined the drawings, specifications, and other Contract Documents of the above project presently on file in the City Clerk, City of Tulsa Oklahoma:

CERTIFIES THAT he has inspected the site of the proposed work and has full knowledge of the extent and character of the work involved, construction difficulties that may be encountered, and materials necessary for construction, class and type of excavation, and all other factors affecting or which may be affected by the specified work; and

CERTIFIES THAT he has not entered into collusion with any other bidder or prospective bidder relative to the project and/or bid: and

HEREBY PROPOSES: to enter into a contract to provide all necessary labor, materials, equipment and tools to completely construct and finish all the work required by the Contract Documents hereto attached and other documents referred to therein: to complete said work within<u>240</u> calendar days after the work order is issued; and to accept in full payment therefore the amount set forth below for all work actually performed as computed by the Engineer as set forth in the Contract.

Basis of Award

THE BID PROPOSAL INCLUDES A BASE BID WITH THREE MATERIAL OPTIONS. IT SHOULD BE NOTED THAT THE LOWEST RESPONSIBLE TOTAL BID SHALL BE DETERMINED BY THE BASE BID WITH THE LOWER OF THE MATERIAL OPTIONS.

ANY PROPOSAL SUBMITTED WITH EITHER MATERIAL OPTION INCOMPLETE SHALL BE CONSIDERED NON-RESPONSIVE. THE CITY OF TULSA RESERVES THE RIGHT TO SELECT EITHER MATERIAL OPTION IN THE EVENT THE BID COSTS OF THE THREE MATERIAL OPTIONS ARE EQUAL.

ADDENDUM 1 - BID FORM PROJECT NO: TMUA-W 18-14 240 CDs

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		240 CDs			DATA INPUT	
BID ITEM	SPEC NO.	DESCRIPTION	UNIT	QTY	UNIT COST	TOTAL COST
BASE BID	D				Sec. 6	
1	301A	RIGHT-OF-WAY CLEARING AND RESTORING	LF	6208	ARTING PROPERTY AND INC.	0.0
2	302A	EXCAVATION AND BACKFILL	CY	2429		0.0
3	303A	MOBILIZATION	EA	1	Television and the	0.00
4	304B	CONTRACTOR CONSTRUCTION STAKING	EA	1	Dignore Substant	0.00
5	312C	6-INCH PLUG, RJ	EA	2	and the state of the	0.00
6	312F	REMOVE SERVICE CORP AND INSTALL PLUG	EA	69		0.00
8	312G 312H	12-INCH S-B 413 SLEEVE, OR EQUAL (FOR CONNECTING TO OUT-OF-ROUND CI PIPE)	EA	6		0.00
9	312H 312I	6-INCH S-B 413 SLEEVE, OR EQUAL (FOR CONNECTING TO OUT-OF-ROUND CI PIPE)	EA	14	Market Barris	0.00
10	312J	12-INCH SOLID DI SLEEVE, RJ (FOR CONNECTING TO ROUND DIP)	EA	3		0.00
11	315A	6-INCH SOLID DI SLEEVE,RJ (FOR CONNECTING TO ROUND DIP) 3/4-INCH METER METER CAN, RIM AND LID	EA	17	M. Rater Jan V	0.0
12	315B	1-INCH WATER METER CAN, RIM AND LID	EA	68	王が知識する	0.00
13	315C	3-WAY FIRE HYDRANT (3 FT BURY DEPTH)	EA	2	Non-Service 1	0.00
14	315D	3/4" SERVICE LINES, EXTENTION (CONTIGENCY)	EA	18	Lots and the	0.00
15	315E	6-IN HYDRANT EXTENSION	LF	100	The second second	0.00
16	317A	2-INCH AIR RELIEF VALVE, STD. 327 (CONTINGENCY)	EA	19	Street Reads	0.00
17	318A	VALVE BOX	EA	4	S. C. Store	0.00
18	318B	VALVE BOX EXTENSION	EA	19		0.00
19	322A	STEEL CONDUIT OPEN CUT 12-INCH (3/8" WALL THICKNESS) (CONTIGENCY ONLY)	LF	19 20	THE STREET	0.00
20	325A	SLAB SOD	SY	1724	Sales Martines	0.00
21	326A	STREET WASHDOWN	LF	6208	A CONTRACTOR OF A CONTRACTOR O	0.00
22	327A	SAFETY FENCE	LF	300		0.00
23	327B	BARRELS WITH STEADY BURN LIGHTS	SD	3600		0.00
24	327C	TUBE CHANNELIZER W/TYPE 'A' FLASHING LIGHTS,RJ	SD	3600	and the state of the state	0.00
25	327D	TYPE III BARRICADES W/TYPE 'A' FLASHING LIGHTS	SD	960		0.00
26	327E	ADVANCED WARNING ARROW PANELS	SD	960		0.00
27	327F	SIGNS, 0 TO 15.99 SF W/TYPE 'A' FLASHING LIGHTS	SD	960	CONTRACTOR OF THE OWNER	0.00
28	327G	SIGNS, 16 SF AND OVER W/TYPE 'A' FLASHING LIGHTS	SD	960	The second second	0.00
29 30	327H	FLAG PERSON	FD	20		0.00
31	328A 328B	8-INCH (HDPE) OR 6-INCH (DIP OR PVC) BORE	LF	1824		0.00
32	328B 329F	8-INCH HDPE BORE - BORE ONLY UNDER BIG HEART CREEK	LF	421	And and a state of	0.00
33	329F	SAW CUT	LF	286		0.00
34	330A	REMOVE & REPLACE 6-IN CONCRETE DRIVEWAY(H.E.S) (CONTINGENCY ONLY) SILT FENCE	SY	15	Har Street	0.00
35		REPAIR DAMAGED ONG SERVICE (CONTINGENCY ONLY)	LF	140		0.00
36	SPECIAL -2	CONSTRUCTION AS-BUILT	ALLOW	1	1,500.00	1,500.00
37	SPECIAL - 3	BLOW-OFF HYDRANT (STD 310) (CONTINGENCY ONLY)	EA	1		0.00
38	SPECIAL - 4	OWNERS ALLOWANCE	EA	2		0.00
39	SPECIAL - 5	REMOVE AND DISPOSE OF EXISTING 24" DIA TREE AT STA 92+73 SHT 20	ALLOW	1	10,000.00	10,000.00
40	ODOT 2024	12" DEPTH UNCLASSSIFIED EXCAVATION (INCLUDES EXISTING ASPHALT REMOVAL)	EA	2	New York Control of	0.00
41	ODOT 2024	READORDED ATE PLOS TRADE TO AVAILUNT (INCLUDES EXISTING ASPHALT REMOVAL)	CY	407	Selection of the	0.00
		6" AGGREGATE BASE TYPE A, 95% SPD	CY	204	10000000000	0.00
42	ODOT 310A	6" SUBGRADE METHOD B	SY	1221		0.00
43	ODOT 325	SEPERATOR FABRIC (MIRAFI RS 3801 OR EQUAL)	SY	1221	Contraction of the	0.00
44	ODOT 329	FULL-DEPTH SAWCUT	LF	284	CONTRACTOR OF THE OWNER	
45		425" SUPERPAVE TYPE S3 (PG 64-22OK)				0.00
46	ODOT 411C	2" SUPERPAVE TYPE S4 (PG 64-220K)	TONS	291	MAR SHOWN	0.00
			TONS	137	BASE BID:	0.00 \$11,500.00
aterial O 47	ption 1 (DIP) 307A	12 INCH DIR AMAMA CLEA DOLVETUENE MRADDER 21			DAGE DID.	\$11,000.00
48		12-INCH DIP, AWWA, CL50, POLYETHENE WRAPPED, RJ 6-INCH DIP, AWWA, CL51, POLYETHENE WRAPPED	LF	120	The second second	0.00
49		6-INCH DIP, AWWA, CL51, POLYETHENE WRAPPED 6-INCH DIP, AWWA, CL51, POLYETHENE WRAPPED, RJ	LF	2543		0.00
50		8-INCH DIRCH DRILLED HDPE AWWA C906 PE 4107 DR11 (DIPS) AT BIG HEART CREEK	LF	5369	president and	0.00
51	312A	12-INCH X12-INCH X6-INCH DUCTILE IRON TEE, RJ	LF	421		0.00
52	312B	6-INCHx6-INCH DUCTILE IRON TEE, RJ	EA	2	Report Frank	0.00
53		6-INCH DUCTILE IRON - 90 DEGREE BEND, RJ	EA	19	Statistical Statistical	0.00
54		6-INCH DUCTILE IRON - 45 DEGREE BEND, RJ	EA	3	No.	0.00
55	312E	6-INCH DUCTILE IRON - 22 1/2 DEGREE BEND, RJ	EA	14		0.00
10			EA	1	A DESCRIPTION OF CARRY STATES	0.00

04	3120	6-INCH DUCTILE IRON - 45 DEGREE BEND, RJ	EA	44	CONTRACTOR OF THE OWNER	
55	312E	6-INCH DUCTILE IRON - 22 1/2 DEGREE BEND, RJ		14	10(164) 5(3) 5(3)	0.00
56	312F	6-INCH DUCTILE IRON - 11 1/4 DEGREE BEND, RJ	EA	1	EMALIA CONTRA	0.00
57			EA	7	STATISTICS IN CONTRACTOR	0.00
	312G	8-INCH x 6-INCH DIP REDUCER, RJ (FOR DIRECTIONAL DRILLED HDPE)	EA	4		0.00
58	312H	8-INCH HDPE MJ ADAPTER (DIPS) (RJ) (FOR DIRECTIONAL DRILLED HDPE)	EA	4		0.00
59	3121	8-INCH HDPE WALL ANCHOR (DIPS) (RJ) (FOR DIRECTIONAL DRILLED HDPE)	EA	7	the second s	
60	315A	1- INCH WATER CONNECTION (LONG)		4	ALC: LOG USA	0.00
61	315B	1-INCH WATER CONNECTION (SHORT)	EA	1		0.00
62	315C		EA	1		0.00
		3/4 INCH WATER CONNECTION (LONG)	EA	28		0.00
63	315D	3/4 INCH WATER CONNECTION (SHORT)	EA	40		0.00
64	317A	12-INCH DUCTILE IRON GATE VALVE, RJ	EA	40		
65	317B	6-INCH DUCTILE IRON GATE VALVE, RJ		2	Date State State	0.00
			EA	19	The she was	0.00
Material O	ption 2 (PVC			BASE	BID PLUS DIP:	\$11,500.00

terial O	ption 2 (PVC			BASI	E BID PLUS DIP:	\$11,500.00
66	307B	12-INCH DIP, AWWA, CL50, POLYETHENE WRAPPED, RJ	LF	120		0.00
67	309A	6-INCH DIP, AWWA, CL51, POLYETHENE WRAPPED, RJ	EA	5369	11.000	0.00
68	309B	8-INCH DIRECT DRILLED HDPE AWWA C906 PE 4107 DR11 (DIPS) AT BIG HEART CREEK	LF	421		0.0
69	309C	6-INCH PVC PIPE, AWWA C900, CLASS 200, DR14	EA	2543	10000	0.0
70	312A	12-INCHx12-INCHx6-INCH DUCTILE IRON TEE, RJ	EA	2545		0.00
71	312B	6-INCHx6-INCHx6-INCH DUCTILE IRON TEE, RJ	EA	19		0.00
72	312C	6-INCH DUCTILE IRON - 90 DEGREE BEND, RJ	EA	3		0.0
73	312D	6-INCH DUCTILE IRON - 45 DEGREE BEND, RJ	EA			0.0
74	312E	6-INCH DUCTILE IRON - 22 1/2 DEGREE BEND, RJ		14		0.0
75	312F	6-INCH DUCTILE IRON - 11 1/4 DEGREE BEND, RJ	EA	1		0.0
76	312G	8-INCH x 6-INCH DIP REDUCER, RJ (FOR DIRECTIONAL DRILED HDPE)	EA	1	A BOOM AND	0.00
77	312H	8-INCH HDPE MJ ADAPTER (DIPS) (RJ) (FOR DIRECTIONAL DRILED HDPE)	EA	4	124-30-226	0.0
78	3121	8-INCH HDPE WALL ANCHOR (DIPS) (RJ)((FOR DIRECTIONAL DRILED HDPE)	EA	4	State and State	0.00
79	315A	1-INCH WATER CONNECTION (LONG)	EA	4		0.00
80	315B	1-INCH WATER CONNECTION (SHORT)	EA	1	and the second second	0.0
81	315A	3/4 INCH WATER CONNECTION (LONG)	EA	1	DISC STATES	0.00
82	315B	3/4 INCH WATER CONNECTION (EDNG)	EA	28	CHARGE ST	0.00
83	317A	12-INCH DUCTILE IRON GATE VALVE, RJ	EA	40	State Set 1	0.00
84	317B	6-INCH DUCTILE IRON GATE VALVE, RJ	EA	3	and the second second	0.00
01	5176	Johnen Doetlee Iron Gate Valve, KJ	EA	19		0.00

Material Option 3 (HDPE)

85	307B	12-INCH DIP, AWWA, CL50, POLYETHENE WRAPPED, RJ	LF	120	Marshell Street	0.00
86	307C	6-INCH DIP, AWWA, CL51, POLYETHENE WRAPPED, RJ	LF	20	adeselected sets	0.00
87	309A	8-INCH HDPE AWWA C906 PE 4107 DR11 (DIPS)	LF	7892	STATES STATES	0.00
88	309B	8-INCH DIRECT DRILLED HDPE AWWA C906 PE 4107 DR11 (DIPS) AT BIG HEART CREEK	LF	421	The second second	0.00
89	312A	12-INCHx12-INCHx6-INCH DUCTILE IRON TEE, RJ	EA	4	Transferration of the	0.00
90	312B	8-INCH HDPE - 90 DEGREE BEND, RJ	EA	3	Standard and	0.00
91	312B	8-INCH HDPE - 45 DEGREE BEND, RJ	EA	14		0.00
92	312C	8-INCH x 6-INCH DIP REDUCER, RJ	EA	38	Constantine State	0.00
93	312D	8-INCH HDPE MJ ADAPTER (DIPS) (RJ)	EA	38	THE SECOND ST	0.00
94	312E	6-INCHx6-INCHx6-INCH DI TEE, RJ	EA	19	Charles and the	0.00
95	312F	8-INCH HDPE WALL ANCHOR (DIPS) (RJ)	EA	40		0.00
96	315A	1-INCH WATER CONNECTION (LONG)	EA	1	DOMESTIC	0.00
97	315B	1-INCH WATER CONNECTION (SHORT)	EA	1	COLOR MARKED	0.00
98	315C	3/4 INCH WATER CONNECTION (LONG)	EA	28		0.00
99	315D	3/4 INCH WATER CONNECTION (SHORT)	EA	40	Constant and Constant of Constant	0.00
100	317A	12-INCH DUCTILE IRON GATE VALVE, RJ	EA	3		0.00
101	317B	8-INCH DUCTILE IRON GATE VALVE, RJ	EA	19	March March 199	0.00
				BASE E	BID PLUS HDPE:	\$11,500.00

Base Bid with DIP Option 1:	\$11,500.00
Base Bid with PVC Option 2:	\$11,500.00
Base Bid with HDPE Option 3:	\$11,500.00

SIGNATURE PAGE PROJECT NO: TMUA-W 18-14

ADDENDUM 1

TOTAL BID (Base Bid with the lower of the three Material Options)

\$11,500.00

Enclosed is a () Bidder's Surety Bond, () Certified Check, () Cashier's Check for	
			Dollars (\$	
				Figures
ntract for the we ys, or within nin ls to execute sa	Tulsa may retain or recover ork covered by this proposa nety (90) days if Federal fur id Contract and furnish the h thirty (30) days after award	 provided the Contract is nds are utilized, from the d required bonds and other re 	s awarded to the undersig ate fixed for opening of b	ned within thirty (30) bids and the undersigned
ated at Tulsa, Ol	klahoma, this day	/ of	, 2020.	
	Respectfully submi	tted,		
	(Complete legal name	e of company)		
	(State of Orga	nization)	-	
у:			ATTEST:	
itle:		-	Title: Corporate	Secretary
				(SEAL)
		Address:		
elephone Numbe	er:		Fax Number:	
"he undersigned a	acknowledge receipt of the f	following Addenda (give n	umber and date of each):	

												ſ	Material	Option 2 (PVC		WI 'A'	WI 'B' WI 'C	WI 'D' WI '	'E' WL 'F' WL 'G'
		PAY QUANTITIES PROJECT NO: TMUA-W 18-14										\wedge	66	307B	12-INCH DIP, AWWA, CL50, POLYETHENE WRAPPED, RJ 1.2,3,8,9,11,27,46 LF 120	20	10 10	80	
		240 CDs											67	309A	6-INCH DIP, AWWA, CL51, POLYETHENE WRAPPED, RJ 1,2,3,9,10,27,43,46 LF 5369	731	381 1124	720 770	0 573 1070
BIDITEM	SPEC NO.	Example of the second se	PAY NOTES	UNIT	QTY	WL 'A	WL 'B'	WL 'C'	WL 'D'	WL'E' W	L'F' WL'G	. [68	309B	8-INCH DIRECT DRILLED HDPE AWWA C906 PE 4107 DR11 (DIPS) AT BIG HEART CREEK 1,2,3,9,10,19,20,27,38,39,46 LF 421	240	181		
												- [69	309C	6-INCH PVC PIPE, AWWA C900, CLASS 200, DR14 1,2,3,9,10,27,43,46 LF 2543	64	0 735	457 522	2 235 530
BASE BID	301A	RIGHT-OF-WAY CLEARING AND RESTORING	4,5,6,7,17,22,23,45	LF	6208	720	267	1421	997	982 4	402 1419	-	70	312A	12-INCHx12-INCHx6-INCH DUCTILE IRON TEE, RJ 2,8 EA 2			2	
2	302A	EXCAVATION AND BACKFILL	14,22	CY	2429	267	99	526	369		149 526	-	71	312B	6-INCHx6-INCH DUCTILE IRON TEE, RJ 2,8 EA 19	4	1 6	1 3	
3	303A	MOBILIZATION		EA	1		0.05		0.15		0.10 0.20	1	72	312C	6-INCH DUCTILE IRON - 90 DEGREE BEND, RJ 2.8 EA 3 6-INCH DUCTILE IRON - 45 DEGREE BEND, RJ 2.8 EA 14	1	2 9	2	2
4	304B	CONTRACTOR CONSTRUCTION STAKING		EA	1	0.10	0.05	0.20	0.15	0.20 0	0.10 0.20	1	73	312D 312E	6-INCH DUCTILE IRON - 45 DEGREE BEND, RJ 2.8 EA 14 6-INCH DUCTILE IRON - 22 1/2 DEGREE BEND, RJ 2.8 EA 1	1	2 5	-	
5	312C	6-INCH PLUG, RJ	2,8	EA	2	1		1					75	312E	6-INCH DUCTILE IRON - 11 1/4 DEGREE BEND, RJ 2,8 EA 7	4	2 1	1	
6	312F	REMOVE SERVICE CORP AND INSTALL PLUG	2,8,9,30	EA	69	6	1	7	11	14	6 24		76	312G	8-INCH x 6-INCH DIP REDUCER, RJ (FOR DIRECTIONAL DRILED HDPE) 2,8 EA 4	2	2		
7	312G	12-INCH S-B 413 SLEEVE, OR EQUAL (FOR CONNECTING TO OUT-OF-ROUND CI PIPE)	2,12,44,47	EA	6	2	2		2				77	312H	8-INCH HDPE MJ ADAPTER (DIPS) (RJ) (FOR DIRECTIONAL DRILLED HDPE) 38 EA 4	2	2		
8	312H	6-INCH S-B 413 SLEEVE, OR EQUAL (FOR CONNECTING TO OUT-OF-ROUND CI PIPE)	2,12,44,47	EA	14	2	2	2	2	2	2 2	- 1	78	3121	8-INCH HDPE WALL ANCHOR (DIPS) (RJ)((FOR DIRECTIONAL DRILED HDPE) 26,40,41 EA 4	2	2		
9	312	12-INCH SOLID DI SLEEVE, RJ (FOR CONNECTING TO ROUND DIP)	2,8,47	EA	3	1	1		1			- 1	79	315A	1-INCH WATER CONNECTION (LONG) 15,16 EA 1			1	
10	312J	6-INCH SOLID DI SLEEVE, RJ (FOR CONNECTING TO ROUND DIP)	2,8,47	EA	17	2	2	2	2		2 4 8 24	- 1	80	315B	1-INCH WATER CONNECTION (SHORT) 15,16 EA 1		1		
11	315A	3/4-INCH METER METER CAN, RIM AND LID		EA	68	6	4	4	8	14	8 24	- 1	81	315A	3/4 INCH WATER CONNECTION (LONG) 15,16 EA 28		1	2 7	
12	315B 315C	1-INCH WATER METER CAN, RIM AND LID 3-WAY FIRE HYDRANT (3 FT BURY DEPTH)	31	EA	18	3	+ +	5	2	3	2 3	- !	82	315B	3/4 INCH WATER CONNECTION (SHORT) 15,16 EA 40	6	3 4	6 7	2 12
14	315C		15,16	LF	100		+ +					- 1	83	317A	12-INCH DUCTILE IRON GATE VALVE, RJ 8 EA 3	1	2		
14	315E	6-IN HYDRANT EXTENSION		EA	19	3		5	2	4	2 3	- 1	84	317B	6-INCH DUCTILE IRON GATE VALVE, RJ 2,8 EA 19	4	1 4	2 3	1 4
16	317A	2-INCH AIR RELIEF VALVE, STD. 327		EA	4		+ +	1	1	1	1			Option 3 (HDI	12-INCH DIP. AWWA, CL50, POLYETHENE WRAPPED, RJ 1,2,3,8,9,11,27,46 LF 120	20	10 10	80	
17	318A	VALVE BOX	21	EA	19	3	0	5	2	3	2 4		85	307B		0	0 0		0 20
18	318B	VALVE BOX EXTENSION		EA	19	3	0	5	2	3	2 4		86	307C					
19	322A	STEEL CONDUIT OPEN CUT 12-INCH (3/8" WALL THICKNESS) (CONTIGENCY ONLY)	2	LF	20								87	309A	8-INCH HDPE AWWA C906 PE 4107 DR11 (DIPS) 1,2,3,9,10,19,20,27,38,39,46 LF 7892	805	381 1869	1177 129	808 1560
20	325A	SLAB SOD	32	SY	1724	200		395	277		112 394		88	309B	8-INCH DIRECT DRILLED HDPE AWWA C906 PE 4107 DR11 (DIPS) AT BIG HEART CREEK 1,2,3,9,10,19,20,27,38,39,46 LF 421	240	181		
21	326A	STREET WASHDOWN	22	LF	6208	720	267	1421	997	982 4	402 1419	4	89	312A	12-INCHx12-INCHx6-INCH DUCTILE IRON TEE, RJ 2,8 EA 4		2	2	
22	327A	SAFETY FENCE	22,33	LF	300	_	1					4	90	312C	6-INCH HDPE - 90 DEGREE BEND, RJ 2.8 EA 3		2 9		2
23	327B	BARRELS WITH STEADY BURN LIGHTS	34	SD	3600							4	91	312B	8-INCH HDPE - 45 DEGREE BEND, RJ 38 EA 14 8-INCH x 6-INCH DIP REDUCER, RJ 2.8 EA 38	6	2 9 2 9	_	2 8
24	327C	TUBE CHANNELIZER W/TYPE 'A' FLASHING LIGHTS,RJ	34	SD	3600		++						92	312C		6	2 9	6 5	
25	327D		34	SD	960 960								93 94	312D 312E	8-INCH HDPE MJ ADAPTER (DIPS) (RJ) 38 EA 38 6-INCHx6-INCH DI TEE, RJ 2, EA 19	4	1 6	1 3	
26	327E 327F	ADVANCED WARNING ARROW PANELS	34	SD SD	960		+ +						95	312E	8-INCH HDPE WALL ANCHOR (DIPS) (RJ) 26.40.41 EA 40	8	2 9		
27	327F	SIGNS, 0 TO 15.99 SF W/TYPE 'A' FLASHING LIGHTS SIGNS, 16 SF AND OVER W/TYPE 'A' FLASHING LIGHTS	34	SD	960		-		0				96	315A	1-INCH WATER CONNECTION (LONG) 15,16 EA 1			1	
29	327H	FLAG PERSON	34	FD	20								97	315B	1-INCH WATER CONNECTION (SHORT) 15,16 EA 1		1		
30	328A	8-INCH (HDPE) OR 6-INCH (DIP) BORE (NO PVC) - BORE ONLY	35,48,49	LF	1824	95	124	448	260	310	406 181		98	315C	3/4 INCH WATER CONNECTION (LONG) 15,16 EA 28		1	2 7	6 12
31	328B	8-INCH HDPE BORE - BORE ONLY UNDER BIG HEART CREEK	35,48,49	LF	421	240	181					1 1	99	315D	3/4 INCH WATER CONNECTION (SHORT) 15,16 EA 40	6	3 4	6 7	2 12
32	329F	SAW CUT	22	LF	286	270	0	16	0	0	0 0		100	317A	12-INCH DUCTILE IRON GATE VALVE, RJ 8 EA 3	1	2		
33	3291	REMOVE & REPLACE 6-IN CONCRETE DRIVEWAY(H.E.S) (CONTINGENCY ONLY)		SY	15								101	317B	8-INCH DUCTILE IRON GATE VALVE, RJ 2,8 EA 19	4	1 4	2 3	1 4
34	330A	SILT FENCE	37	LF	140	20	20	20	20	20	20 20	_ г		STATION					[
															TYPE OF DIDE DIDE DIDE	E TOTALS			
35	SPECIAL -	- 1 REPAIR DAMAGED ONG SERVICE (CONTINGENCY ONLY)	42	ALLOW	1							4 -		STATION 2	6" PUSH-ON 12" DIP 6" DIP 6" PUSH-ON	E TOTALS		6"/8"	8" BORE UNDER
35 36	SPECIAL -	-2 CONSTRUCTION AS-BUILT		EA	1								6-INCH	BEGIN	END STATION 6" RJ PIPE 12" PIPE DIRECTIONAL 6" PUSH-ON 12" DIP 6" DIP 0"	E TOTALS DIRECTIONAL DRILLED 8"	12" DIP RJ		BIG HEART
36 37	SPECIAL -2 SPECIAL -	-2 CONSTRUCTION AS-BUILT -3 BLOW-OFF HYDRANT (STD 310) (CONTINGENCY ONLY)	22	EA EA	1 2									BEGIN	STATION 6" RJ PIPE ANT DIRECTIONAL 6" PUSH-ON 12" DIP 6" DIP 6" PUSH-ON 6" RJ	DIRECTIONAL DRILLED 8"	L 12" DIP RJ PIPE ONLY	I FNOTU	
36 37 38	SPECIAL - SPECIAL - SPECIAL -	CONSTRUCTION AS-BUILT BLOW-OFF HYDRANT (STD 310) (CONTINGENCY ONLY) OWNERS ALLOWANCE	22 18	EA EA ALLOW	1 2 1								6-INCH	BEGIN	STATION 6" RJ PIPE HOPE-PVC RJ DIRECTIONAL 6" PUSH-ON 12" DIP 6" DIP PERPENDICLAR P	DIRECTIONAL DRILLED 8"	12" DIP RJ	I FNOTU	BIG HEART
36 37	SPECIAL - SPECIAL - SPECIAL -	-2 CONSTRUCTION AS-BUILT -3 BLOW-OFF HYDRANT (STD 310) (CONTINGENCY ONLY)	22	EA EA	1 2			1		1			6-INCH WATERLII	BEGIN NE STA.	RND STATION 6" RJ PIPE (HDPE-PVC -DIP) RJ ERZENDICLAR PERPENDICLAR PERPENDICLAR DIP) RJ ERZENDICLAR DIP CONNECTIONS CONNECTIONS CONNECTIONS OR DIP) OR DIP	C, DIRECTIONAL DRILLED 8" HDPE	PIPE ONLY	LENGTH	BIG HEART CREEK
36 37 38	SPECIAL - SPECIAL - SPECIAL -	CONSTRUCTION AS-BUILT BLOW-OFF HYDRANT (STD 310) (CONTINGENCY ONLY) OWNERS ALLOWANCE REMOVE AND DISPOSE OF EXISTING 24" DIA TREE AT STA 92+73 SHT 20	22 18 50	EA EA ALLOW	1 2 1			1		1			6-INCH WATERLII A	NE BEGIN STA. 10+00	STATION STA. STATION TO STATION 6" RJ PIPE (HDPE-PVC -DIP) 12" PIPE RJ DIRECTIONAL DRILED 8" HDPE 6" PUSH-ON PIPE (HDPE-PVC, DIP) 12" DIP PERPENDICLAR CONNECTIONS DIP) 6" DIP PERPENDICLAR CONNECTIONS RJ 6" PUSH-ON PIPE (HDPE,PVC, OR DIP) 0:0:0:0:0:0:0:0:0:0:0:0:0:0:0:0:0:0:0:	C, DIRECTIONAL DRILLED 8" HDPE 240	PIPE ONLY	LENGTH	BIG HEART CREEK 240
36 37 38	SPECIAL - SPECIAL - SPECIAL -	CONSTRUCTION AS-BUILT BLOW-OFF HYDRANT (STD 310) (CONTINGENCY ONLY) OWNERS ALLOWANCE	22 18 50	EA EA ALLOW	1 2 1			1		1			6-INCH WATERLII A B	NE BEGIN STA. 10+00 30+00	STATION STA. STATION TO STATION 6" RJ PIPE (HDPE-PVC -DIP) 12" PIPE RJ DIRECTIONAL DRILLED 8" HDPE 6" PUSH-ON PIPE (HDPE-PVC, DIP) 12" DIP PERPENDICLAR CONNECTIONS 6" DIP PERPENDICLAR CONNECTIONS 6" DIP PERPENDICLAR RJ 6" PUSH-ON PIPE (HDPE-PVC, OR DIP) 6" RJ PIPE (HDPE-PVC, OR DIP) 6" RJ (HDPE-PVC, OR DIP) <td>C, DIRECTIONAL DRILLED 8" HDPE 240</td> <td>20 10</td> <td>LENGTH 95 124 448 260</td> <td>BIG HEART CREEK 240</td>	C, DIRECTIONAL DRILLED 8" HDPE 240	20 10	LENGTH 95 124 448 260	BIG HEART CREEK 240
36 37 38 39	SPECIAL -2 SPECIAL - SPECIAL - SPECIAL -2	CONSTRUCTION AS-BUILT BLOW-OFF HYDRANT (STD 310) (CONTINGENCY ONLY) OWNERS ALLOWANCE REMOVE AND DISPOSE OF EXISTING 24" DIA TREE AT STA 92+73 SHT 20	22 18 50	EA EA ALLOW	1 2 1	117		1		1	223		6-INCH WATERLII A B C	NE BEGIN STA. 10+00 30+00 40+00	STATION STATION 6" RJ PIPE (HDPE-PVC -DIP) 12" PIPE RJ DIRECTIONAL DRILLED 8" HDPE 6" PUSH-ON PIPE (HDPE-PVC DIP) 12" DIP PERPENDICLAR CONNECTIONS RJ 6" DIP PERPENDICLAR CONNECTIONS RJ 6" PUSH-ON PIPE (HDPE,PVC OR DIP) 6" RJ PIPE (HDPE,PVC OR DIP) 6" RJ (HDPE,PVC OR DIP) <td>C, DIRECTIONAL DRILLED 8" HDPE 240</td> <td>20 10 10</td> <td>LENGTH 95 124 448 260 310</td> <td>BIG HEART CREEK 240</td>	C, DIRECTIONAL DRILLED 8" HDPE 240	20 10 10	LENGTH 95 124 448 260 310	BIG HEART CREEK 240
36 37 38 39	SPECIAL - SPECIAL - SPECIAL - SPECIAL - CODOT 2024	CONSTRUCTION AS-BUILT BLOW-OFF HYDRANT (STD 310) (CONTINGENCY ONLY) OWNERS ALLOWANCE REMOVE AND DISPOSE OF EXISTING 24" DIA TREE AT STA 92+73 SHT 20 ADDENDUM 1 ASPHALT ROAD REPAIRS (SHTS 7, 8, 11, 14, 17, 23, 24 & 27) Per Asphalt Pr	22 18 50	EA EA ALLOW EA CY CY	1 2 1 2 407 204	58		67 34		1	112		6-INCH WATERLII A B C D E F	BEGIN STA. 10+00 30+00 40+00 60+00 80+00 100+00	STATION TO STATION 6" RJ PIPE (HDPE-PVC -DIP) 12" PIPE RJ DIRECTIONAL DRILED 8" HDPE 6" PUSH-ON PIPE (HDPE-PVC DIP) 12" DIP PERPENDICLAR CONNECTIONS RJ 6" DIP PERPENDICLAR CONNECTIONS RJ 6" DIP PERPENDICLAR CONNECTIONS RJ 6" DIP PERPENDICLAR CONNECTIONS RJ 6" DIP PERPENDICLAR CONNECTIONS RJ 6" DIP PERPENDICLAR RJ 6" DIP RJ	C, DIRECTIONAL DRILLED 8" HDPE 240	20 10 10	95 124 448 260 310 406	BIG HEART CREEK 240
36 37 38 39 39	SPECIAL - SPECIAL - SPECIAL - SPECIAL - 2 ODOT 202/ ODOT 203/ ODOT 303/ ODOT 310/	-2 CONSTRUCTION AS-BUILT -3 BLOW-OFF HYDRANT (STD 310) (CONTINGENCY ONLY) -4 OWNERS ALLOWANCE -5 REMOVE AND DISPOSE OF EXISTING 24" DIA TREE AT STA 92+73 SHT 20	22 18 50	EA EA ALLOW EA CY CY SY	1 2 1 2 407 204 1221	58 350		67 34 202		1	112 669		6-INCH WATERLII A B C C D E F G	BEGIN STA. 10+00 30+00 40+00 60+00 80+00 100+00 118+98	STATION STATION 6" RJ PIPE (HDPE-PVC -DIP) 12" PIPE RJ DIRECTIONAL DRILED 8" HDPE 6" PUSH-ON PIPE (HDPE-PVC DIP) 12" DIP PERPENDICLAR CONNECTIONS RJ 6" DIP PERPENDICLAR CONNECTIONS RJ 6" DIP PERPENDICLAR CONNECTIONS RJ 6" DIP PERPENDICLAR CONNECTIONS RJ 6" DIP PERPENDICLAR CONNECTIONS RJ 6" PUSH-ON PIPE (NDPE-PVC OR DIP) 6" RJ PIPE (HDPE-PVC OR DIP) 6" RJ PIPE (HDPE PVC OR DIP)	DIRECTIONAL DRILLED 8" HDPE 240 181	12 DIP K3 PIPE ONLY 20 10 10 80	LENGTH 95 124 448 260 310	BIG HEART CREEK 240
$ \begin{array}{c} 36 \\ 37 \\ 38 \\ 39 \\ \hline 1 \\ 40 \\ \hline 1 \\ 41 \\ \hline 42 \\ \hline 43 \\ \hline \end{array} $	SPECIAL - SPECIAL - SPECIAL - SPECIAL - SPECIAL - 2 ODOT 202/ ODOT 303/ ODOT 310/ ODOT 325	CONSTRUCTION AS-BUILT BLOW-OFF HYDRANT (STD 310) (CONTINGENCY ONLY) OWNERS ALLOWANCE REMOVE AND DISPOSE OF EXISTING 24" DIA TREE AT STA 92+73 SHT 20 ADDENDUM 1 ASPHALT ROAD REPAIRS (SHTS 7, 8, 11, 14, 17, 23, 24 & 27) Per Asphalt Pi 2A 12" DEPTH UNCLASSSIFIED EXCAVATION (INCLUDES EXISTING ASPHALT REMOVAL) 3A 6" AGGREGATE BASE TYPE A, 95% SPD 0A 6" SUBGRADE METHOD B 25 SEPERATOR FABRIC (MIRAFI RS 3801 OR EQUAL)	22 18 50	EA EA ALLOW EA CY CY CY SY SY	1 2 1 2 407 204 1221 1221	58 350 350		67 34 202 202		1	112 669 669		6-INCH WATERLII A B C D D E F G G TOTAL L	NE BEGIN 10+00 30+00 40+00 60+00 80+00 100+00 118+98 ENGTHS STA	STATION STATION 6" RJ PIPE (HDPE-PVC -DIP) 12" PIPE RJ DIRECTIONAL DRILLED 8" HDPE 6" PUSH-ON PIPE (HDPE-PVC DIP) 12" DIP PERPENDICLAR (HDPE-PVC DIP) 6" DIP PERPENDICLAR RJ 6" DIP PERPENDICLAR RJ 6" DIP PERPENDICLAR RJ 6" DIP PERPENDICLAR RJ 6" RJ PIPE (HDPE-PVC OR DIP) 6" RJ PIPE (HDPE-PVC OR DIP) 6" RJ PIPE RJ 6" RJ RJ 6" RJ RJ <td>c, DIRECTIONAL DRILLED 8" HDPE 240 181 </td> <td>20 10 10</td> <td>95 124 448 260 310 406 181</td> <td>BIG HEART CREEK 240 181</td>	c, DIRECTIONAL DRILLED 8" HDPE 240 181 	20 10 10	95 124 448 260 310 406 181	BIG HEART CREEK 240 181
$ \begin{array}{c} 36 \\ 37 \\ 38 \\ 39 \\ \hline 1 \\ 40 \\ \hline 1 \\ 41 \\ \hline 1 \\ 42 \\ \hline 1 \\ 43 \\ \hline 44 \\ \hline \end{array} $	SPECIAL - SPECIAL - SPECIAL - SPECIAL - CODOT 2024 ODOT 3034 ODOT 3104 ODOT 325	CONSTRUCTION AS-BUILT BLOW-OFF HYDRANT (STD 310) (CONTINGENCY ONLY) OWNERS ALLOWANCE REMOVE AND DISPOSE OF EXISTING 24" DIA TREE AT STA 92+73 SHT 20 ADDENDUM 1 ASPHALT ROAD REPAIRS (SHTS 7, 8, 11, 14, 17, 23, 24 & 27) Per Asphalt Pi 2A 12" DEPTH UNCLASSIFIED EXCAVATION (INCLUDES EXISTING ASPHALT REMOVAL) 3A 6" AGGREGATE BASE TYPE A, 95% SPD A 6" SUBGRADE METHOD B SEPERATOR FABRIC (MIRAFI RS 3801 OR EQUAL) FULL-DEPTH SAWCUT	22 18 50 Yavement Repair Addendum 1	EA EA ALLOW EA CY CY CY SY SY LF	1 2 1 2 407 204 1221 1221 284	58 350 350 73		67 34 202 202 73		1	112 669 669 138		6-INCH WATERLII A B C D D E F G G TOTAL L	BEGIN STA. 10+00 30+00 40+00 60+00 80+00 100+00 118+98	STATION STATION 6" RJ PIPE (HDPE-PVC -DIP) 12" PIPE RJ DIRECTIONAL DRILLED 8" HDPE 6" PUSH-ON PIPE (HDPE-PVC DIP) 12" DIP PERPENDICLAR (HDPE-PVC DIP) 6" DIP PERPENDICLAR RJ 6" DIP PERPENDICLAR RJ 6" DIP PERPENDICLAR RJ 6" DIP PERPENDICLAR RJ 6" RJ PIPE (HDPE-PVC OR DIP) 6" RJ PIPE (HDPE-PVC OR DIP) 6" RJ PIPE RJ 6" RJ RJ 6" RJ RJ <td>DIRECTIONAL DRILLED 8" HDPE 240 181</td> <td>12 DIP K3 PIPE ONLY 20 10 10 80</td> <td>95 124 448 260 310 406</td> <td>BIG HEART CREEK 240</td>	DIRECTIONAL DRILLED 8" HDPE 240 181	12 DIP K3 PIPE ONLY 20 10 10 80	95 124 448 260 310 406	BIG HEART CREEK 240
$ \begin{array}{c} 36 \\ 37 \\ 38 \\ 39 \\ \hline 1 \\ 40 \\ 41 \\ 41 \\ 42 \\ 43 \\ 44 \\ 45 \\ \hline \end{array} $	SPECIAL -: SPECIAL -: SPECIAL -: SPECIAL -: 2 ODOT 202/ ODOT 303/ ODOT 310/ ODOT 325 ODOT 329 ODOT 4118	-2 CONSTRUCTION AS-BUILT -3 BLOW-OFF HYDRANT (STD 310) (CONTINGENCY ONLY) -4 OWNERS ALLOWANCE -5 REMOVE AND DISPOSE OF EXISTING 24" DIA TREE AT STA 92+73 SHT 20 21 ADDENDUM 1 ASPHALT ROAD REPAIRS (SHTS 7, 8, 11, 14, 17, 23, 24 & 27) Per Asphalt Pi 22 12" DEPTH UNCLASSIFIED EXCAVATION (INCLUDES EXISTING ASPHALT REMOVAL) 33 6" AGGREGATE BASE TYPE A, 95% SPD 04 6" SUBGRADE METHOD B 25 SEPERATOR FABRIC (MIRAFI RS 3801 OR EQUAL) 29 FULL-DEPTH SAWCUT 18 4.25" SUPERPAVE TYPE S3 (PG 64-22)	22 18 50 Vavement Repair Addendum 1 51	EA EA ALLOW EA CY CY SY SY LF TONS	1 2 1 2 407 204 1221 1221 284 291	58 350 350 73 83		67 34 202 202 73 48		1	112 669 669 138 159		6-INCH WATERLII A B C D D E F G G TOTAL L	NE BEGIN 10+00 30+00 40+00 60+00 80+00 100+00 118+98 ENGTHS STA	STATION STATION 6" RJ PIPE (HDPE-PVC -DIP) 12" PIPE RJ DIRECTIONAL DRILLED 8" HDPE 6" PUSH-ON PIPE (HDPE-PVC DIP) 12" DIP PERPENDICLAR (HDPE-PVC DIP) 6" DIP PERPENDICLAR RJ 6" DIP PERPENDICLAR RJ 6" DIP PERPENDICLAR RJ 6" DIP PERPENDICLAR RJ 6" RJ PIPE (HDPE-PVC OR DIP) 6" RJ PIPE (HDPE-PVC OR DIP) 6" RJ PIPE RJ 6" RJ RJ 6" RJ RJ <td>c, DIRECTIONAL DRILLED 8" HDPE 240 181 </td> <td>12 DIP K3 PIPE ONLY 20 10 10 80</td> <td>95 124 448 260 310 406 181</td> <td>BIG HEART CREEK 240 181</td>	c, DIRECTIONAL DRILLED 8" HDPE 240 181 	12 DIP K3 PIPE ONLY 20 10 10 80	95 124 448 260 310 406 181	BIG HEART CREEK 240 181
$ \begin{array}{c} 36\\ 37\\ 38\\ 39\\ \hline 1\\ 40\\ \hline 1\\ 41\\ \hline 1\\ 42\\ \hline 1\\ 43\\ \hline 1\\ 44\\ \hline 1\\ 45\\ \hline 1\\ 46\\ \hline \end{array} $	SPECIAL -: SPECIAL SPECIAL SPECIAL SPECIAL CODOT 202/ ODOT 303/ ODOT 303/ ODOT 325 ODOT 329 ODOT 4110 ODOT 4110	-2 CONSTRUCTION AS-BUILT -3 BLOW-OFF HYDRANT (STD 310) (CONTINGENCY ONLY) -4 OWNERS ALLOWANCE -5 REMOVE AND DISPOSE OF EXISTING 24" DIA TREE AT STA 92+73 SHT 20 /1 ADDENDUM 1 ASPHALT ROAD REPAIRS (SHTS 7, 8, 11, 14, 17, 23, 24 & 27) Per Asphalt Pr 2A 12" DEPTH UNCLASSIFIED EXCAVATION (INCLUDES EXISTING ASPHALT REMOVAL) 3A 6" AGGREGATE BASE TYPE A, 95% SPD 0A 6" SUBGRADE METHOD B 25 SEPERATOR FABRIC (MIRAFI RS 3801 OR EQUAL) 29 FULL-DEPTH SAWCUT 18 4.25" SUPERPAVE TYPE S3 (PG 64-22) 1C 2" SUPERPAVE TYPE S4 (PG 64-22)	22 18 50 Yavement Repair Addendum 1	EA EA ALLOW EA CY CY CY SY SY LF	1 2 1 2 407 204 1221 1221 284	58 350 350 73		67 34 202 202 73		1	112 669 669 138		6-INCH WATERLII A B C D D E F G G TOTAL L	NE BEGIN 10+00 30+00 40+00 60+00 80+00 100+00 118+98 ENGTHS STA	STATION STATION 6" RJ PIPE (HDPE-PVC -DIP) 12" PIPE RJ DIRECTIONAL DRILLED 8" HDPE 6" PUSH-ON PIPE (HDPE-PVC DIP) 12" DIP PERPENDICLAR (HDPE-PVC DIP) 6" DIP PERPENDICLAR RJ 6" DIP PERPENDICLAR CONNECTIONS RJ 6" RJ PIPE (HDPE-PVC OR DIP) 6" RJ PIPE (HDPE-PVC OR DIP) 6" RJ PIPE (HDPE-PVC (RD R) 6" RJ PIPE (HDPE-PVC (RD R) 6" RJ PIPE (HDPE R) 6" RJ PIPE (HDPE R) <t< td=""><td>C, DIRECTIONAL DRILLED 8" HDPE 240 181 421 8.453</td><td>12 DIP K3 PIPE ONLY 20 10 10 80 120</td><td>95 124 448 260 310 406 181</td><td>BIG HEART CREEK 240 181</td></t<>	C, DIRECTIONAL DRILLED 8" HDPE 240 181 421 8.453	12 DIP K3 PIPE ONLY 20 10 10 80 120	95 124 448 260 310 406 181	BIG HEART CREEK 240 181
36 37 38 39 39 1 1 40 1 41 41 42 43 45 46 Material O	SPECIAL -: SPECIAL - SPECIAL - SPECIAL - CODOT 202/ ODOT 303/ ODOT 325 ODOT 310/ ODOT 325 ODOT 4111 ODOT 4110 ODOT 4110	CONSTRUCTION AS-BUILT BLOW-OFF HYDRANT (STD 310) (CONTINGENCY ONLY) WNERS ALLOWANCE GREATER ALLOWANCE ADDENDUM 1 ASPHALT ROAD REPAIRS (SHTS 7, 8, 11, 14, 17, 23, 24 & 27) Per Asphalt Pr ADDENDUM 1 ASPHALT ROAD REPAIRS (SHTS 7, 8, 11, 14, 17, 23, 24 & 27) Per Asphalt Pr ADDENDUM 1 ASPHALT ROAD REPAIRS (SHTS 7, 8, 11, 14, 17, 23, 24 & 27) Per Asphalt Pr ADDENDUM 1 ASPHALT ROAD REPAIRS (SHTS 7, 8, 11, 14, 17, 23, 24 & 27) Per Asphalt Pr ADDENDUM 1 ASPHALT ROAD REPAIRS (SHTS 7, 8, 11, 14, 17, 23, 24 & 27) Per Asphalt Pr ADDENDUM 1 ASPHALT ROAD REPAIRS (SHTS 7, 8, 11, 14, 17, 23, 24 & 27) Per Asphalt Pr ADDENDUM 1 ASPHALT ROAD REPAIRS (SHTS 7, 8, 11, 14, 17, 23, 24 & 27) Per Asphalt Pr ADDENDUM 1 ASPHALT ROAD REPAIRS (SHTS 7, 8, 11, 14, 17, 23, 24 & 27) Per Asphalt Pr ADDENDUM 1 ASPHALT ROAD REPAIRS (SHTS 7, 8, 11, 14, 17, 23, 24 & 27) Per Asphalt Pr ADDENDUM 1 ASPHALT ROAD REPAIRS (SHTS 7, 8, 11, 14, 17, 23, 24 & 27) Per Asphalt Pr ADDENDUM 1 ASPHALT ROAD REPAIRS (SHTS 7, 8, 11, 14, 17, 23, 24 & 27) Per Asphalt Pr ADDENDUM 1 ASPHALT ROAD REPAIRS (SHTS 7, 8, 11, 14, 17, 23, 24 & 27) Per Asphalt Pr ADDENDUM 1 ASPHALT ROAD REPAIRS (SHTS 7, 8, 11, 14, 17, 23, 24 & 27) Per Asphalt REMOVAL) BE SUBERATOR FABRIC (MIRAFI RS 3801 OR EQUAL) EVALU-DEPTH SAWCUT H 4.25' SUPERPAVE TYPE S3 (PG 64-22) C 2' SUPERPAVE TYPE S4 (PG 64-22)	22 18 50 Vavement Repair Addendum 1 51	EA EA ALLOW EA CY CY SY SY LF TONS	1 2 1 2 407 204 1221 1221 284 291	58 350 350 73 83		67 34 202 202 73 48	80	1	112 669 669 138 159		6-INCH WATERLII A B C D D E F G G TOTAL L	NE BEGIN 10+00 30+00 40+00 60+00 80+00 100+00 118+98 ENGTHS STA	STATION STATION 6" RJ PIPE (HDPE-PVC -DIP) 12" PIPE RJ DIRECTIONAL DRILLED 8" HDPE 6" PUSH-ON PIPE (HDPE-PVC DIP) 12" DIP PERPENDICLAR (HDPE-PVC DIP) 6" DIP PERPENDICLAR RJ 6" DIP PERPENDICLAR CONNECTIONS RJ 6" RJ PIPE (HDPE-PVC OR DIP) 6" RJ PIPE (HDPE-PVC (R RJ)	C, DIRECTIONAL DRILLED 8" HDPE 240 181 8,453	12 DIP K3 PIPE ONLY 20 10 10 80 120	95 124 448 260 310 406 181	BIG HEART CREEK 240 181
$ \begin{array}{c} 36\\ 37\\ 38\\ 39\\ \hline 1\\ 40\\ \hline 1\\ 41\\ \hline 1\\ 42\\ \hline 1\\ 43\\ \hline 1\\ 44\\ \hline 1\\ 45\\ \hline 1\\ 46\\ \hline \end{array} $	SPECIAL -: SPECIAL SPECIAL SPECIAL SPECIAL CODOT 202/ ODOT 303/ ODOT 303/ ODOT 325 ODOT 329 ODOT 4110 ODOT 4110	CONSTRUCTION AS-BUILT BLOW-OFF HYDRANT (STD 310) (CONTINGENCY ONLY) OWNERS ALLOWANCE GREATER AND DISPOSE OF EXISTING 24" DIA TREE AT STA 92+73 SHT 20 ADDENDUM 1 ASPHALT ROAD REPAIRS (SHTS 7, 8, 11, 14, 17, 23, 24 & 27) Per Asphalt Pr ADDENDUM 1 ASPHALT ROAD REPAIRS (SHTS 7, 8, 11, 14, 17, 23, 24 & 27) Per Asphalt Pr ADDENDUM 1 ASPHALT ROAD REPAIRS (SHTS 7, 8, 11, 14, 17, 23, 24 & 27) Per Asphalt Pr ADDENDUM 1 ASPHALT ROAD REPAIRS (SHTS 7, 8, 11, 14, 17, 23, 24 & 27) Per Asphalt Pr ADDENDUM 1 ASPHALT ROAD REPAIRS (SHTS 7, 8, 11, 14, 17, 23, 24 & 27) Per Asphalt Pr ADDENDUM 1 ASPHALT ROAD REPAIRS (SHTS 7, 8, 11, 14, 17, 23, 24 & 27) Per Asphalt Pr ADDENDUM 1 ASPHALT ROAD REPAIRS (SHTS 7, 8, 11, 14, 17, 23, 24 & 27) Per Asphalt Pr ADDENDUM 1 ASPHALT ROAD REPAIRS (SHTS 7, 8, 11, 14, 17, 23, 24 & 27) Per Asphalt Pr ADDENDUM 1 ASPHALT ROAD REPAIRS (SHTS 7, 8, 11, 14, 17, 23, 24 & 27) Per Asphalt Pr ADDENDUM 1 ASPHALT ROAD REPAIRS (SHTS 7, 8, 11, 14, 17, 23, 24 & 27) Per Asphalt Pr ADDENDUM 1 ASPHALT ROAD REPAIRS (SHTS 7, 8, 11, 14, 17, 23, 24 & 27) Per Asphalt Pr ADDENDUM 1 ASPHALT ROAD REPAIRS (SHTS 7, 8, 11, 14, 17, 23, 24 & 27) Per Asphalt Pr BASE TYPE A, 95% SPD FUL-DEPTH SAMENT (MIRAFI RS 3801 OR EQUAL) EVALU-DEPTH SAWCUT H 4.25* SUPERPAVE TYPE S3 (PG 64-22) T I2-INCH DIP, AWWA, CL50, POLYETHENE WRAPPED, RJ	22 18 50 Vavement Repair Addendum 1 51 51	EA EA ALLOW EA CY CY SY SY LF TONS TONS	1 2 1 2 2 407 204 1221 1221 1221 284 291 137	58 350 350 73 83 39		67 34 202 202 73 48 23	80 457		112 669 669 138 159 75		6-INCH WATERLII A B C D D E F G G TOTAL L	NE BEGIN 10+00 30+00 40+00 60+00 80+00 100+00 118+98 ENGTHS STA	STATION STA. 6" RJ PIPE (HDPE-PVC -DIP) 12" PIPE RJ DIRECTIONAL DRILED 8" (HDPE-PVC -DIP) 6" PUSH-ON PIPE (HDPE-PVC DIP) 12" DIP PERPENDICLAR (HDPE-PVC DIP) 6" DIP PERPENDICLAR RJ 6" DIP PERPENDICLAR CONNECTIONS RJ 6" RJ PIPE (HDPE-PVC OR DIP) 6" RJ PIPE (HDPE-PVC OR DIP) 0:435 1.035 731 240 64 20 64 731 5:62 381 181 10 64 731 381 2:42 1.859 1.124 735 10 735 1,124 2:492 7.20 75 457 5 457 720 0:808 808 573 235 20 530 1,070 1:814 5:349 75 421 2,543 455 20 530 1,070 1:815 1.050 5:30 20 530 1,070 2,543 5,369 CH PIPE TACK COAT TACK COAT 0100000000000000000000000000000000000	C, DIRECTIONAL DRILLED 8" HDPE 240 181 421 8.453	12 DIP R3 PIPE ONLY 20 10 10 10 80 120	95 124 448 260 310 406 181	BIG HEART CREEK 240 181
36 37 38 39 1 40 1 41 41 42 43 43 1 45 1 45 1 45 1 47	SPECIAL -: SPECIAL - SPECIAL - SPECIAL - 2 CODT 202/ CODT 303/ ODOT 310/ ODOT 325 ODOT 325 ODOT 329 ODOT 411(ODOT 411(ODOT 410P) 307A	CONSTRUCTION AS-BUILT BLOW-OFF HYDRANT (STD 310) (CONTINGENCY ONLY) OWNERS ALLOWANCE GREATER ALLOWANCE ADDENDUM 1 ASPHALT ROAD REPAIRS (SHTS 7, 8, 11, 14, 17, 23, 24 & 27) Per Asphalt Pr ADDENDUM 1 ASPHALT ROAD REPAIRS (SHTS 7, 8, 11, 14, 17, 23, 24 & 27) Per Asphalt Pr ADDENDUM 1 ASPHALT ROAD REPAIRS (SHTS 7, 8, 11, 14, 17, 23, 24 & 27) Per Asphalt Pr ADDENDUM 1 ASPHALT ROAD REPAIRS (SHTS 7, 8, 11, 14, 17, 23, 24 & 27) Per Asphalt Pr ADDENDUM 1 ASPHALT ROAD REPAIRS (SHTS 7, 8, 11, 14, 17, 23, 24 & 27) Per Asphalt Pr ADDENDUM 1 ASPHALT ROAD REPAIRS (SHTS 7, 8, 11, 14, 17, 23, 24 & 27) Per Asphalt Pr ADDENDUM 1 ASPHALT ROAD REPAIRS (SHTS 7, 8, 11, 14, 17, 23, 24 & 27) Per Asphalt Pr ADDENDUM 1 ASPHALT ROAD REPAIRS (SHTS 7, 8, 11, 14, 17, 23, 24 & 27) Per Asphalt Pr ADDENDUM 1 ASPHALT ROAD REPAIRS (SHTS 7, 8, 11, 14, 17, 23, 24 & 27) Per Asphalt Pr ADDENDUM 1 ASPHALT ROAD REPAIRS (SHTS 7, 8, 11, 14, 17, 23, 24 & 27) Per Asphalt Pr ADDENDUM 1 ASPHALT ROAD REPAIRS (SHTS 7, 8, 11, 14, 17, 23, 24 & 27) Per Asphalt Pr ADDENDUM 1 ASPHALT ROAD REPAIRS (SHTS 7, 8, 11, 14, 17, 23, 24 & 27) Per Asphalt Pr ADDENDUM 1 ASPHALT ROAD REPAIRS (SHTS 7, 8, 11, 14, 17, 23, 24 & 27) Per Asphalt REMOVAL) ADDENDUM 1 ASPHALT ROAD REPAIRS (SHTS 7, 8, 11, 14, 17, 23, 24 & 27) Per Asphalt REMOVAL B SUBGRADE METHOD B SUBGRADE METHOD B SUBGRADE METHOD B SUBGRADE METHOD B SUBCL-DEPTH SAWCUT H 4.25" SUPERAVE TYPE S3 (PG 64-22) ID ID ID-DEPTH SAWCUT ID ID AUWA, CL50, POLYETHENE WRAPPED, RJ G-INCH DIP, AWWA, CL50, POLYETHENE WRAPPED	22 18 50 Vavement Repair Addendum 1 51 51 1.2.3.8.9,11.27,46	EA EA ALLOW EA CY CY CY SY LF TONS TONS	1 2 1 2 2 407 204 1221 1221 1221 284 291 137	58 350 350 73 83 39 20	10	67 34 202 202 73 48 23 10 735	457		112 669 669 138 159 75 0 0 0 235 530		6-INCH WATERLII A B C D D E F G G TOTAL L	NE BEGIN 10+00 30+00 40+00 60+00 80+00 100+00 118+98 ENGTHS STA	STATION STATION 6" RJ PIPE (HDPE-PVC -DIP) 12" PIPE RJ DIRECTIONAL DRILLED 8" HDPE 6" PUSH-ON PIPE (HDPE-PVC DIP) 12" DIP PERPENDICLAR (HDPE-PVC DIP) 6" DIP PERPENDICLAR RJ 6" DIP PERPENDICLAR CONNECTIONS RJ 6" RJ PIPE (HDPE-PVC OR DIP) 6" RJ PIPE (HDPE-PVC (R RJ)	C, DIRECTIONAL DRILLED 8" HDPE 240 181 421 8,453	12 DIP R3 PIPE ONLY 20 10 10 10 80 120	95 124 448 260 310 406 181	BIG HEART CREEK 240 181
36 37 38 39 39 1 1 40 41 41 42 43 44 43 44 43 44 45 46 Material O 1 47 48	SPECIAL -: SPECIAL - SPECIAL SPECIAL 2 ODOT 202/ ODOT 303/ ODOT 310/ ODOT 310/ ODOT 325 ODOT 329 ODOT 4111 ODOT 41111 ODOT 41111 ODOT 41113 ODOT 4113 ODOT 41113 ODOT 41113 OD	CONSTRUCTION AS-BUILT BLOW-OFF HYDRANT (STD 310) (CONTINGENCY ONLY) OWNERS ALLOWANCE GENEROVE AND DISPOSE OF EXISTING 24" DIA TREE AT STA 92+73 SHT 20 ADDENDUM 1 ASPHALT ROAD REPAIRS (SHTS 7, 8, 11, 14, 17, 23, 24 & 27) Per Asphalt Pr ADDENDUM 1 ASPHALT ROAD REPAIRS (SHTS 7, 8, 11, 14, 17, 23, 24 & 27) Per Asphalt Pr ADDENDUM 1 ASPHALT ROAD REPAIRS (SHTS 7, 8, 11, 14, 17, 23, 24 & 27) Per Asphalt Pr ADDENDUM 1 ASPHALT ROAD REPAIRS (SHTS 7, 8, 11, 14, 17, 23, 24 & 27) Per Asphalt Pr ADDENDUM 1 ASPHALT ROAD REPAIRS (SHTS 7, 8, 11, 14, 17, 23, 24 & 27) Per Asphalt Pr ADDENDUM 1 ASPHALT ROAD REPAIRS (SHTS 7, 8, 11, 14, 17, 23, 24 & 27) Per Asphalt Pr ADDENDUM 1 ASPHALT ROAD REPAIRS (SHTS 7, 8, 11, 14, 17, 23, 24 & 27) Per Asphalt Pr ADDENDUM 1 ASPHALT ROAD REPAIRS (SHTS 7, 8, 11, 14, 17, 23, 24 & 27) Per Asphalt Pr ADDENDUM 1 ASPHALT ROAD REPAIRS (SHTS 7, 8, 11, 14, 17, 23, 24 & 27) Per Asphalt Pr ADDENDUM 1 ASPHALT ROAD REPAIRS (SHTS 7, 8, 11, 14, 17, 23, 24 & 27) Per Asphalt Pr ADDENDUM 1 ASPHALT ROAD REPAIRS (SHTS 7, 8, 11, 14, 17, 23, 24 & 27) Per Asphalt Pr ADDENDUM 1 ASPHALT ROAD REPAIRS (SHTS 7, 8, 11, 14, 17, 23, 24 & 27) Per Asphalt Pr ADDENDUM 1 ASPHALT ROAD REPAIRS (SHTS 7, 8, 11, 14, 17, 23, 24 & 27) Per Asphalt REMOVAL) Seperator France RASE TYPE A, 95% SPD A GGREGATE BASE TYPE A, 95% SPD A GGREGATE BASE TYPE A, 95% SPD A SGREGATE BASE TYPE S3 (PG 64-22) A SGRE	22 18 50 2avement Repair Addendum 1 51 51 1.2,3,8,9,11,27,46 1.2,3,9,11,27,46	EA EA ALLOW EA CY CY SY SY LF TONS TONS	1 2 1 2 2 407 204 1221 1221 284 291 137 120 2543	58 350 350 73 83 39 20 64	10 0 381	67 34 202 202 73 48 23 10 735	457	522 3	112 669 669 138 159 75 0 0 0 235 530		6-INCH WATERLII A B C D D E F G G TOTAL L	NE BEGIN 10+00 30+00 40+00 60+00 80+00 100+00 118+98 ENGTHS STA	STATION STA. 6" RJ PIPE (HDPE,PVC -DIP) 12" PIPE RJ DIRECTIONAL DRILED 8" HDPE 6" PUSH-ON PIPE (HDPE,PVC DIP) 12" DIP PERPENDICLAR CONNECTIONS RJ 6" DIP PERPENDICLAR CONNECTIONS RJ 6" RJ PERPENDICLAR CONNECTIONS RJ 6" RJ PIPE (HDPE,PVC OR DIP) 6" RJ PIPE (HDPE,PVC (R) RJ 6" RJ RJ <th< td=""><td>C, DIRECTIONAL DRILLED 8" HDPE 240 181 181 421 8,453</td><td>12 DIP R3 PIPE ONLY 20 10 10 10 80 120 120 120 120 120 120 120 120 120 12</td><td>95 124 448 260 310 406 181</td><td>BIG HEART CREEK 240 181</td></th<>	C, DIRECTIONAL DRILLED 8" HDPE 240 181 181 421 8,453	12 DIP R3 PIPE ONLY 20 10 10 10 80 120 120 120 120 120 120 120 120 120 12	95 124 448 260 310 406 181	BIG HEART CREEK 240 181
36 37 38 39 1 40 1 41 42 41 1 42 1 45 1 45 1 46 Material O 1 47 48 49 49	SPECIAL -: SPECIAL -: SPECIAL -: SPECIAL -: 2 CDOT 202/ ODOT 303/ ODOT 310/ ODOT 310/ ODOT 325 ODOT 329 ODOT 4111: STION 1 (DIP) 307A 307B 307C	CONSTRUCTION AS-BUILT BLOW-OFF HYDRANT (STD 310) (CONTINGENCY ONLY) GWNERS ALLOWANCE CONSTRUCTION AS-BUILT ADDENDUM 1 ASPHALT ROAD REPAIRS (SHTS 7, 8, 11, 14, 17, 23, 24 & 27) Per Asphalt Pi ADDENDUM 1 ASPHALT ROAD REPAIRS (SHTS 7, 8, 11, 14, 17, 23, 24 & 27) Per Asphalt Pi ADDENDUM 1 ASPHALT ROAD REPAIRS (SHTS 7, 8, 11, 14, 17, 23, 24 & 27) Per Asphalt Pi ADDENDUM 1 ASPHALT ROAD REPAIRS (SHTS 7, 8, 11, 14, 17, 23, 24 & 27) Per Asphalt Pi ADDENDUM 1 ASPHALT ROAD REPAIRS (SHTS 7, 8, 11, 14, 17, 23, 24 & 27) Per Asphalt Pi ADDENDUM 1 ASPHALT ROAD REPAIRS (SHTS 7, 8, 11, 14, 17, 23, 24 & 27) Per Asphalt Pi ADDENDUM 1 ASPHALT ROAD REPAIRS (SHTS 7, 8, 11, 14, 17, 23, 24 & 27) Per Asphalt Pi ADDENDUM 1 ASPHALT ROAD REPAIRS (SHTS 7, 8, 11, 14, 17, 23, 24 & 27) Per Asphalt Pi ADDENDUM 1 ASPHALT ROAD REPAIRS (SHTS 7, 8, 11, 14, 17, 23, 24 & 27) Per Asphalt Pi ADDENDUM 1 ASPHALT ROAD REPAIRS (SHTS 7, 8, 11, 14, 17, 23, 24 & 27) Per Asphalt Pi ADDENDUM 1 ASPHALT ROAD REPAIRS (SHTS 7, 8, 11, 14, 17, 23, 24 & 27) Per Asphalt Pi DENDUM 1 ASPHALT ROAD REPAIRS (SHTS 7, 8, 11, 14, 17, 23, 24 & 27) Per Asphalt Pi SADDENDUM 1 ASPHALT ROAD REPAIRS (SHTS 7, 8, 11, 14, 17, 23, 24 & 27) Per Asphalt Pi SADDENDUM 1 ASPHALT ROAD REPAIRS (SHTS 7, 8, 11, 14, 17, 23, 24 & 27) Per Asphalt Pi SADDENDUM 1 ASPHALT ROAD REPAIRS (SHTS 7, 8, 11, 14, 17, 23, 24 & 27) Per Asphalt REMOVAL) SADDENDUM 1 ASPHALT ROAD REPAIRS (SHTS 7, 8, 11, 14, 17, 23, 24 & 27) Per Asphalt REMOVAL) SADDENDUM 1 ASPHALT ROAD REPAIRS (SHTS 7, 8, 11, 14, 17, 23, 24 & 27) Per Asphalt REMOVAL) SADDENDUM 1 ASPHALT ROAD REPAIRS (SHTS 7, 8, 11, 14, 17, 23, 24 & 27) Per Asphalt REMOVAL (SHT 8, 3801 OR EQUAL) SADDENDUM 4, 255 SUPERAVE TYPE S3 (PG 64-22) TUL-DEPTH SAUCUT SADDENDENDENDUM 2000 PE ALVA REPED, RJ SADRENDUM 2000 PE ALVA RAPPED, RJ SADRENDUM A, CL51, POLYETHENE WRAPPED, RJ SAINCH DIRECT DRILLED HOPE AWWA C906 PE 4107 DR111 (DIPS) AT BIG HEART CREEK	22 18 50 avement Repair Addendum 1 51 51 1,2,3,8,9,11,27,46 1,2,3,8,9,11,27,46 1,2,3,8,9,11,27,46	EA EA ALLOW EA CY CY SY SY LF TONS TONS	1 2 1 2 2 407 204 1221 1221 1221 284 291 137 120 2543 5369	58 350 350 73 83 39 20 64 731	10 0 381	67 34 202 202 73 48 23 10 735	457	522 3	112 669 669 138 159 75 0 0 0 235 530		6-INCH WATERLII A B C D D E F G G TOTAL L	NE BEGIN 10+00 30+00 40+00 60+00 80+00 100+00 118+98 ENGTHS STA	STATION STA. 6" RJ PIPE (HDPE,PVC -DIP) 12" PIPE RJ DIRECTIONAL DRILED 8" HDPE 6" PUSH-ON PIPE (HDPE,PVC DIP) 12" DIP PERPENDICLAR CONNECTIONS RJ 6" DIP PERPENDICLAR CONNECTIONS RJ 6" RJ PERPENDICLAR CONNECTIONS RJ 6" RJ PIPE (HDPE,PVC OR DIP) 6" RJ PIPE (HDPE,PVC (R) RJ 6" RJ RJ <th< td=""><td>C, DIRECTIONAL DRILLED 8" HDPE 240 181 421 8,453</td><td>12 DIP R3 PIPE ONLY 20 10 10 10 80 120 120 120 120 120 120 120 120 120 12</td><td>95 124 448 260 310 406 181</td><td>BIG HEART CREEK 240 181</td></th<>	C, DIRECTIONAL DRILLED 8" HDPE 240 181 421 8,453	12 DIP R3 PIPE ONLY 20 10 10 10 80 120 120 120 120 120 120 120 120 120 12	95 124 448 260 310 406 181	BIG HEART CREEK 240 181
36 37 38 39 39 40 41 41 41 42 43 44 44 45 46 Material O 1 47 48 49 50	SPECIAL -: SPECIAL SPECIAL SPECIAL C CDOT 202/ ODOT 303/ ODOT 303/ ODOT 305/ ODOT 329 ODOT 4110 ODOT 4110 S07A 307A 307A 307C 309A	CONSTRUCTION AS-BUILT BLOW-OFF HYDRANT (STD 310) (CONTINGENCY ONLY) OWNERS ALLOWANCE REMOVE AND DISPOSE OF EXISTING 24" DIA TREE AT STA 92+73 SHT 20 ADDENDUM 1 ASPHALT ROAD REPAIRS (SHTS 7, 8, 11, 14, 17, 23, 24 & 27) Per Asphalt Pi ADDENDUM 1 ASPHALT ROAD REPAIRS (SHTS 7, 8, 11, 14, 17, 23, 24 & 27) Per Asphalt Pi ADDENDUM 1 ASPHALT ROAD REPAIRS (SHTS 7, 8, 11, 14, 17, 23, 24 & 27) Per Asphalt Pi ADDENDUM 1 ASPHALT ROAD REPAIRS (SHTS 7, 8, 11, 14, 17, 23, 24 & 27) Per Asphalt Pi ADDENDUM 1 ASPHALT ROAD REPAIRS (SHTS 7, 8, 11, 14, 17, 23, 24 & 27) Per Asphalt Pi ADDENDUM 1 ASPHALT ROAD REPAIRS (SHTS 7, 8, 11, 14, 17, 23, 24 & 27) Per Asphalt Pi ADDENDUM 1 ASPHALT ROAD REPAIRS (SHTS 7, 8, 11, 14, 17, 23, 24 & 27) Per Asphalt Pi ADDENDUM 1 ASPHALT ROAD REPAIRS (SHTS 7, 8, 11, 14, 17, 23, 24 & 27) Per Asphalt Pi ADDENDUM 1 ASPHALT ROAD REPAIRS (SHTS 7, 8, 11, 14, 17, 23, 24 & 27) Per Asphalt Pi ADDENDUM 1 ASPHALT ROAD REPAIRS (SHTS 7, 8, 11, 14, 17, 23, 24 & 27) Per Asphalt Pi ADDENDUM 1 ASPHALT ROAD REPAIRS (SHTS 7, 8, 11, 14, 17, 23, 24 & 27) Per Asphalt Pi DENDUM 1 ASPHALT ROAD REPAIRS (SHTS 7, 8, 11, 14, 17, 23, 24 & 27) Per Asphalt Pi ADDENDUM 1 ASPHALT ROAD REPAIRS (SHTS 7, 8, 11, 14, 17, 23, 24 & 27) Per Asphalt Pi SubGRADE METHOD B SEPERATOR FABRIC (MIRAFI RS 3801 OR EQUAL) FUL-DEPTH SAWCUT H 4.25" SUPERAVE TYPE S3 (PG 64-22) FUL-DEPTH SAWCUT I 4.25" SUPERPAVE TYPE S4 (PG 64-22) I2-INCH DIP, AWWA, CL50, POLYETHENE WRAPPED, RJ 6-INCH DIP, AWWA, CL50, POLYETHENE WRAPPED, RJ 6-INCH DIP, AWWA, CL51, POLYETHENE WRAPPED, RJ 6-INCH DIP, AWWA, CL51, POLYETHENE WRAPPED, RJ 8-INCH DIRECT DRILLED HDPE AWWA C906 PE 4107 DR11 (DIPS) AT BIG HEART CREEK 12-INCHx12-INCHx6-INCH DUCTILE IRON TEE, RJ	22 18 50 avement Repair Addendum 1 51 51 51 1.2.3.8.9.11.27.46 1.2.3.9.11.27.46 1.2.3.9.11.27.46 1.2.3.9.11.27.46 1.2.3.8.9.11.27.46 1.2.4.8.9.11.27.46 1.2.4.8.9.11.27.46 1.2.4.8.9.11.27.46 1	EA EA ALLOW EA CY CY SY LF TONS TONS LF LF LF LF LF EA EA	1 2 1 2 2 407 204 1221 1221 284 291 137 120 2543 5369 421	58 350 73 83 39 20 64 731 240	10 0 381	67 34 202 202 73 48 23 10 735	457 720 2	522 2 770 9	112 669 669 138 159 75 235 530 573 1070 1 3		6-INCH WATERLII A B C D D E F G G TOTAL L	NE BEGIN 10+00 30+00 40+00 60+00 80+00 100+00 118+98 ENGTHS STA	STATION STA. 6" RJ PIPE (HDPE,PVC -DIP) 12" PIPE RJ DIRECTIONAL DRILED 8" HDPE 6" PUSH-ON PIPE (HDPE,PVC DIP) 12" DIP PERPENDICLAR RJ 6" DIP PERPENDICLAR CONNECTIONS RJ 6" RJ PERPENDICLAR CONNECTIONS RJ 6" RJ PIPE (HDPE,PVC OR DIP) 6" RJ RJ	C, DIRECTIONAL DRILLED 8" HDPE 240 181 181 421 8,453	12 DIP R3 PIPE ONLY 20 10 10 10 80 120 120 120 120 120 120 120 120 120 12	95 124 448 260 310 406 181	BIG HEART CREEK 240 181
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36 37 38 39 1 41 42 43 44 45 1 45 46 Material O 1 47 48 49 50 51 52 53 54	SPECIAL -: SPECIAL -: SPECIAL SPECIAL CODOT 2024 ODOT 3034 ODOT 3104 ODOT 325 ODOT 3111 ODOT 325 ODOT 41110 ODOT 41110 ODOT 41110 ODOT 4110 ODOT 4100 ODOT 4100	CONSTRUCTION AS-BUILT BLOW-OFF HYDRANT (STD 310) (CONTINGENCY ONLY) BLOW-OFF HYDRANT (STD 310) (CONTINGENCY ONLY) OWNERS ALLOWANCE SREMOVE AND DISPOSE OF EXISTING 24" DIA TREE AT STA 92+73 SHT 20 ADDENDUM 1 ASPHALT ROAD REPAIRS (SHTS 7, 8, 11, 14, 17, 23, 24 & 27) Per Asphalt Pr ADDENDUM 1 ASPHALT ROAD REPAIRS (SHTS 7, 8, 11, 14, 17, 23, 24 & 27) Per Asphalt Pr ADDENDUM 1 ASPHALT ROAD REPAIRS (SHTS 7, 8, 11, 14, 17, 23, 24 & 27) Per Asphalt Pr ADDENDUM 1 ASPHALT ROAD REPAIRS (SHTS 7, 8, 11, 14, 17, 23, 24 & 27) Per Asphalt Pr ADDENDUM 1 ASPHALT ROAD REPAIRS (SHTS 7, 8, 11, 14, 17, 23, 24 & 27) Per Asphalt Pr ADDENDUM 1 ASPHALT ROAD REPAIRS (SHTS 7, 8, 11, 14, 17, 23, 24 & 27) Per Asphalt Pr ADDENDUM 1 ASPHALT ROAD REPAIRS (SHTS 7, 8, 11, 14, 17, 23, 24 & 27) Per Asphalt Pr ADDENDUM 1 ASPHALT ROAD REPAIRS (SHTS 7, 8, 11, 14, 17, 23, 24 & 27) Per Asphalt Pr ADDENDUM 1 ASPHALT ROAD REPAIRS (SHTS 7, 8, 11, 14, 17, 23, 24 & 27) Per Asphalt Pr ADDENDUM 1 ASPHALT ROAD REPAIRS (SHTS 7, 8, 11, 14, 17, 23, 24 & 27) Per Asphalt Pr ADDENDUM 1 ASPHALT ROAD REPAIRS (SHTS 7, 8, 11, 14, 17, 23, 24 & 27) Per Asphalt Pr ADDENDUM 1 ASPHALT ROAD REPAIRS (SHTS 7, 8, 11, 14, 17, 23, 24 & 27) Per Asphalt Pr ADDENDUM 1 ASPHALT ROAD REPAIRS (SHTS 7, 8, 11, 14, 17, 23, 24 & 27) Per Asphalt Pr ADDENDUM 1 ASPHALT ROAD REPAIRS (SHTS 7, 8, 11, 14, 17, 23, 24 & 27) Per Asphalt Pr ADDENDUT ASPHALT ROAD REPAIRS (SHTS 7, 8, 11, 14, 17, 23, 24 & 27) Per Asphalt Pr ADDENDUT FE BASE TYPE SHORE ASPHALT REMOVAL) ADDENDUT SATISTICAL DISPOSITION (SHTS 100 (SHTS 100 SET) SATISTICAL PR ADDENDUT ASPHALT REMAINS (SHTS 010 FE, RJ AINCH DIRCT DRILLED HDPE AWAR C906 PE 4107 DR11 (DIPS) AT BIG HEART CREEK 12-INCHAS-INCHAS-INCH DUCTILE IRON TEE, RJ AINCH DIRCTILE IRON - 90 DEGREE BEND, RJ AINCH DUCTILE IRON - 90 DEGREE BEND, RJ AINCH DUCTILE IRON - 45 DEGREE BEND, RJ AINCH DUCTILE IRON - 45 DEGREE BEND, RJ	22 18 50 2avement Repair Addendum 1 51 51 51 1.2.3.8.9.11.27.46 1.2.3.9.11.27.46 1.2.3.9.11.27.46 1.2.3.9.11.27.46 1.2.3.9.11.27.46 2.8 2.8 2.8 2.8 2.8	EA EA ALLOW EA CY CY CY SY SY LF LF LF LF LF LF EA EA EA EA	1 2 1 2 407 204 1221 1221 1221 1221 1221 1221 284 291 137 120 2543 5369 421 2 19 3 14	58 350 73 83 39 20 64 731 240 4 1	10 0 381 181 1	67 34 202 202 73 48 23 10 735 1124 6 1	457 720 2 1	522 2 770 9	112 669 669 138 159 75 235 530 573 1070 1 3		6-INCH WATERLII A B C D D E F G G TOTAL L	NE BEGIN 10+00 30+00 40+00 60+00 80+00 100+00 118+98 ENGTHS STA	STATION STA. 6" RJ PIPE (HDPE,PVC -DIP) 12" PIPE RJ DIRECTIONAL DRILED 8" HDPE 6" PUSH-ON PIPE (HDPE,PVC DIP) 12" DIP PERPENDICLAR RJ 6" RJ PERPENDICLAR CONNECTIONS RJ 6" RJ PERPENDICLAR CONNECTIONS RJ 6" RJ PERPENDICLAR CONNECTIONS RJ 6" RJ PERPENDICLAR CONNECTIONS RJ 6" RJ PERPENDICLAR RJ 6" RJ RJ <	C, DIRECTIONAL DRILLED 8" HDPE 240 181 181 421 8,453	12 DIP R3 PIPE ONLY 20 10 10 10 80 120 120 120 120 120 120 120 120 120 12	LENGTH 95 124 448 260 310 406 181 1,824 DIN	BIG HEART CREEK 240 181
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36 37 38 39 1 40 1 41 42 43 44 45 46 1 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62	SPECIAL -: SPECIAL -: SPECIAL -: SPECIAL -: CODOT 202/ ODOT 303/ ODOT 310/ ODOT 325 ODOT 310/ ODOT 325 ODOT 4110 ODOT 4100 ODOT 410	 2 CONSTRUCTION AS-BUILT 3 BLOW-OFF HYDRANT (STD 310) (CONTINGENCY ONLY) 4 OWNERS ALLOWANCE 5 REMOVE AND DISPOSE OF EXISTING 24" DIA TREE AT STA 92+73 SHT 20 ADDENDUM 1 ASPHALT ROAD REPAIRS (SHTS 7, 8, 11, 14, 17, 23, 24 & 27) Per Asphalt Pi 2A 12" DEPTH UNCLASSIFIED EXCAVATION (INCLUDES EXISTING ASPHALT REMOVAL) 3A 6" AGGREGATE BASE TYPE A, 95% SPD 6 6" SUBGRADE METHOD B 25 SEPERATOR FABRIC (MIRAFI RS 3801 OR EQUAL) 29 FULL-DEPTH SAWCUT 18 4.25" SUPERPAVE TYPE S3 (PG 64-22) 12-INCH DIP, AWWA, CL50, POLYETHENE WRAPPED, RJ 6-INCH DIP, AWWA, CL51, POLYETHENE WRAPPED, RJ 6-INCH DUCTILE IRON 150, RJ 6-INCH DUCTILE IRON 151, JOLYERE BEND, RJ 6-INCH DUCTILE IRON 150, RJ (FOR DIRECTIONAL DRILLED HDPE) 8-INCH HDPE MJADAPTER (DIPS) (RJ) (FOR DIRECTIONAL DRILLED HDPE) 8-INCH HDPE MALL ANCHOR (DIPS) (RJ) (FOR DIRECTIONAL DRILLED HDPE) 8-INCH HDPE WALL ANCHOR (DIPS) (RJ) (FOR DIRECTIONAL DRILLED HDPE) 1-INCH WATER CONNECTION (LONG) 1-INCH WATER CONNECTION (LONG) 	22 18 50 avement Repair Addendum 1 51 51 51 1,2,3,8,9,11,27,46 1,2,3,9,11,27,46 1,2,3,9,11,27,46 1,2,3,9,11,27,46 1,2,3,9,11,27,46 1,2,3,9,11,27,46 1,2,3,9,11,27,46 1,2,3,8,9,11,27,46 2,8 2,8 2,8 2,8 2,8 2,8 3,8 2,8 2,8 3,8 2,8 3,8 2,8 3,8 2,8 3,8 2,8 3,8 2,8 3,8 2,8 3,8 2,8 3,8 2,8 3,8 3,8 2,6,40,41 1,5,16 15,16	EA EA EA ALLOW EA CY CY SY SY LF TONS TONS ILF LF LF LF EA EA EA EA EA EA EA EA EA EA	1 2 1 2 1 2 2 407 204 1221 1221 1221 1221 1221 284 291 137 120 2543 5369 421 2 2 19 3 14 1 1 7 4 4 4 4 1 1	58 350 350 73 83 39 20 64 731 240 4 731 240 4 1 1 1 1 4 2 2	10 0 381 181 1 2 2 2 2 2 2 2 2 2	67 34 202 202 73 48 23 10 735 1124 6 1 9	457 720 2 1 2 2 1 2 1	522 2 770 9 3 1 1 7	112 669 669 138 159 75 0 0 235 530 573 1070 1 3 2 1 3 2 		6-INCH WATERLII A B C D D E F G G TOTAL L	NE BEGIN 10+00 30+00 40+00 60+00 80+00 100+00 118+98 ENGTHS STA	STATION TO STA. 6" RJ PIPE TO STA. 12" PIPE NOP DIRECTIONAL PIPE HOPE PVC. DIP) 5" PUSH-ON PIPE RJ 12" DIP PIPE CONNECTION RJ 6" DIP PIPE CONNECTION RJ 6" PUSH-ON PIPE CONNECTION RJ 6" PUSH-ON RJ 6" PUSH-ON RJ 6" PUSH-ON PIPE CONNECTION RJ 6" PUSH-ON RJ 6" PUSH RJ 6" PUSH RJ <td>C, DIRECTIONAL DRILLED 8" HDPE 240 181 421 8.453 COEESS CALAR 2" W CITY ENGINE 2" W</td> <td>PIPE ONLY PIPE ONLY 20 10 10 10 10 10 10 10 10 10 1</td> <td>LENGTH 95 124 448 260 310 406 181 1.824 1.824</td> <td>BIG HEART CREEK 240 181 421 421 MENT 10MA RTMENT</td>	C, DIRECTIONAL DRILLED 8" HDPE 240 181 421 8.453 COEESS CALAR 2" W CITY ENGINE 2" W	PIPE ONLY PIPE ONLY 20 10 10 10 10 10 10 10 10 10 1	LENGTH 95 124 448 260 310 406 181 1.824 1.824	BIG HEART CREEK 240 181 421 421 MENT 10MA RTMENT
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ASPHALT PAVEMENT REPAIR - ADDENDUM 01 ON SHEETS 07, 08, 11, 14, 17, 23, 24 & 27 SCALE NTS

2" SUPERPAVE TYPE S4 (PG 64-22)* 4.25" SUPERPAVE TYPE S3 (PG 64-22)* 6" AGG. BASE, TYPE 'A' 6" SUBGRADE METHOD 'B'	MESSIONAL MOCHANSING UMBENSTOCK 11407 REINERED OVILAHOMM
SEPARATOR FABRIC (MIRAFI RS3801 OR EQUAL)	
AGG. BASE TYPE 'A', 95% STD. PROCTOR DENSITY (SEPARATE BID ITEM)	PAY ITEMS
COT, NEW PAVEMENT THICKNESS	2" WATERLINE REPLA TMUA-W 18-14

REVISION	БY	DA"E	PLAN SCALE	DRAWN		XX-XX-XX	APPROVED
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			PROFILE SCALE	PROJECT MGR]
			HORIZONTAL	LEAD ENGINEER			
			1222	FIELD MGR			1
			VERTICAL	RECOMMENDED			1
				DESIGN MANAG	ER		CITY ENGINEER
			FILE				DATE
			ATLAS PAGE NO.	107			SHIFT 02 OF 36 SHEETS

PAY ITEM NOTES (TYPICAL)

- TESTING AND CHLORINATION OF WATER MAINS SHALL BE PERFORMED BY THE CITY OF TULSA. TESTING, CHLORINATION, AND FLUSHING SHALL BE DONE IN ACCORDANCE WITH SECTION 109.3 OF THE GENERAL SPECIFICATIONS.
- A CONTRACTOR SHALL FURNISH AND INSTALL <u>TEMPORARY PLUGS</u> WITH ADEQUATE BLOCKING OR <u>RESTRAINTS</u>, PLUS CORPORATION STOPS, AS DIRECTED BY CITY TESTING PERSONNEL, THEN, ONCE TESTING, CHLORINATION AND FLUSHING BY CITY PERSONNEL IS COMPLETED, REMOVE TEMPORARY BLOCKING AND TIE INTO EXISTING SYSTEM, USING FITTINGS SWABBED INTERNALLY WITH 2% BLEACH SOLUTION
- B. TESTING, CHLORINATION, AND FLUSHING OF NEW WATER MAIN SHALL BE PERFORMED BY CITY PERSONNEL ON MAINS WHICH ARE PHYSICALLY DISCONNECTED FROM THE EXISTING WATER SYSTEM. TESTING, CHLORINATION, AND FLUSHING OF NEW WATER MAINS SHALL NOT BE PERFORMED AGAINST VALVES WHICH ARE PHYSICALLY CONNECTED TO EXISTING SYSTEM.
- C. ALL COSTS FOR TEMPORARY PLUGS, BLOCKING, RESTRAINING, CORPORATION STOPS, TUBING, THREADED CONNECTIONS, BLEACH AND OTHER INCIDENTALS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR PIPE.
- 2. BURIED BOLTS, HARNESS LUGS, AND COUPLINGS SHALL BE GIVEN TWO COATS OF KOPPER'S BITUMASTIC 300-M (DRY MIL THICKNESS OF 16 MILS) OR EQUAL. COST TO BE INCLUDED IN UNIT PRICE BID FOR PIPE AND FITTINGS.
- 3. CONTRACTOR TO EXCAVATE ALL UTILITY CROSSINGS AHEAD OF PIPE LAYING SO THAT THE GRADES CAN BE ADJUSTED ON THE PROPOSED WATER MAIN TO AVOID UTILITY CONFLICTS. FAILURE TO DO SO SHALL NOT ENTITLE THE CONTRACTOR TO CLAIM EXTRA COMPENSATION FOR ADJUSTMENTS TO THE PROPOSED WATER MAIN. COST FOR EXCAVATING UTILITY CROSSINGS SHALL BE INCLUDED IN UNIT PRICE BID FOR PIPE.
- 4. CONTRACTOR SHALL INSURE ALL POLES WHICH ARE AFFECTED BY TRENCHING CONDITIONS ARE BRACED BY OWNERS. PAYMENT SHALL BE INCLUDED IN "RIGHT-OF-WAY CLEARING AND RESTORING", NO ADDITIONAL PAYMENT SHALL BE MADE.
- 5. ALL HYDRANTS. VALVES AND OTHER FITTINGS FROM ABANDONED WATER MAINS SHALL BE SALVAGED AND DELIVERED TO SOUTH YARD.
- 2317 S JACKSON. PAYMENT TO BE MADE UNDER RIGHT OF WAY CLEARING AND RESTORING. NO ADDITIONAL PAYMENT SHALL BE MAD
- 6. CONTRACTOR SHALL REPAIR ANY IRRIGATION SYSTEMS, ROOF DRAINS, AND FENCING DAMAGED IN THE ZONE OF CONSTRUCTION DURING THE COURSE OF CONSTRUCTION TO SATISFACTION OF THE PROPERTY OWNER. PAYMENT SHALL BE INCLUDED IN RIGHT-OF- WAY CLEARING AND RESTORING, NO ADDITIONAL PAYMENT SHALL BE MADE.
- COST OF ANY TEMPORARY LIVESTOCK FENCING AND POLES SHALL BE INCLUDED IN COST OF RIGHT OF WAY CLEARING AND RESTORING. NO ADDITIONAL PAYMENT SHALL BE MADE
- 8. ALL COSTS FOR COMPONENTS NECESSARY TO RESTRAIN JOINTS FOR PIPE AND FITTINGS DESIGNATED RESTRAINED JOINT ("RJ") SHALL BE INCLUDED IN UNIT PRICE BID FOR PIPE OR FITTINGS
 - A. DUCTILE IRON PIPE RESTRAINED JOINT SYSTEMS: US PIPE TRFLEX, GRIFFIN SNAPLOK, MCWANE THRUSTLOCK, AMERICAN FLEXRING, EBAA MEGALUG, STAR STARGRIP, SMITH-BLAIR CAMLOCK, CLOW TUFGRIP OR EQUAL SHALL BE USED ON THIS PROJECT, SHOULD RJ PIPE BE SPECIFIED THROUGH UNCASED BORES, ONLY USPIPE TRFLEX, GRIFFIN SNAPLOK, MCWANE THRUSTLOCK, OR AMERICAN FLEXRING IS TO BE USED. LOCKING GASKETS NOT PERMITTED.
 - B. <u>POLYVINYL CHLORIDE (PVC) RESTRAINED JOINT SYSTEMS:</u> EBAA MEGALUG, STAR STARGRIP OR EQUAL SHALL BE USED ON THIS PROJECT. LOCKING GASKETS NOT PERMITTED; SHOULD RJ PIPE BE SPECIFIED ON BORE CASING IS REQUIRED.
 - C. HIGH DENSITY POLYETHYLENE (HDPE) RESTRAINED JOINT SYSTEMS: EBAA MEGALUG, STAR STARGRIP OR EQUAL SHALL BE USED ON THIS PROJECT
- NO ADDITIONAL PAYMENT SHALL BE MADE.
- 9. ALL CUT ENDS AND WHERE SALVAGED FITTINGS HAVE BEEN REMOVED FROM ABANDONED WATER LINES LEFT IN PLACE, SHALL BE PLUGGED WITH 24-IN OF CONCRETE INSIDE THE PIPE. COST OF CONCRETE PLUGGING TO BE INCLUDED IN UNIT PRICE BID FOR PIPE. NO ADDITIONAL
- 10. TRACER WRE AND DETECTABLE MYLAR MARKING TAPE SHALL BE INSTALLED ABOVE ALL PVC AND HDPE PIPE, TERMINATING ONLY ONTO HYDRANTS JUST ABOVE GROUND LEVEL AS PER CONST SPEC 310, COST OF TRACER WIRE AND DETECTABLE MYLAR TAPE SHALL BE INCLUDED IN UNIT PRICE BID FOR PVC AND HOPE PIPE. CONST SPEC 310.1 NOW ALLOWS #12 COPPER-CLAD STEEL (CCS) WIRE, 21% CONDUCTIVITY, IN LIEU OF #8 COPPER WIRE AS TRACER WIRE ATOP PVC AND HOPE PIPE.
- 11. DETECTABLE MYLAR MARKING TAPE SHALL BE INSTALLED OVER DUCTILE IRON PIPE AS PER CONST SPEC 307.3 AND 307.4. COST WILL BE NCLUDED IN COST OF DUCTILE IRON PIPE
- 12. ALL LABOR, MATERIALS, AND EQUIPMENT TO CONNECT PROPOSED WATER MAINS TO EXISTING WATER MAINS ARE INCLUDED IN COST OF SLEEVES/ADAPTORS. CONTRACTOR TO EXCAVATE ALL EXISTING WATER MAINS AHEAD OF PIPE LAYING SO THAT THE GRADES CAN BE ADJUSTED ACCORDINGLY. FAILURE TO DO SO SHALL NOT ENTITLE THE CONTRACTOR TO CLAIM EXTRA COMPENSATION FOR ADJUSTMENTS TO THE PROPOSED WATER MAIN. COST FOR EXCAVATING EXISTING WATER MAINS SHALL BE INCLUDED IN UNIT PRICE BID FOR SLEEVES. NO ADDITIONAL PAYMENT SHALL BE MADE.
- 13. FOR CONNECTING TO OUT-OF-ROUND CIP. SMITH-BLAIR 413 OR EQUAL.
- 14. CONTRACTOR IS REMINDED TO BACKFILL ALL TRENCHES EXCAVATED ACROSS ANY EXISTING OR PROPOSED DRIVING OR PARKING SURFACE WITH 1½ IN TYPE A AGGREGATE BASE, PLACED IN 8-INCH MAXIMUM LIFTS AND COMPACTED TO 98% MODIFIED PROCTOR DENSITY. COST TO BE INCLUDED IN COST OF EXCAVATION AND BACKFILL. NO ADDITIONAL PAYMENT SHALL BE MADE.
- 15. WATER SERVICE CONNECTIONS SHALL INCLUDE COST OF MATERIAL, LABOR AND EQUIPMENT TO REMOVE AND INSTALL SADDLES, SERVICE CLAMPS, CORPORATION STOPS, BENDS, 3-PART UNIONS, COUPLINGS, SETTERS AND ANY OTHER INCIDENTALS REQUIRED FOR A COMPLETE WATER SERVICE CONNECTION WITH EXCEPTION OF METER CANS, RIMS AND LIDS. NO ADDITIONAL PAYMENT SHALL BE MADE. METER CANS, LIDS AND RIMS SHALL BE PAID AS A SEPARATE BID ITEM.
 - A. <u>SHORT SERVICE</u> SHALL BE ANY SERVICE LINE THAT IS 25-FEET OR LESS IN LENGTH. SHORT SERVICES DO NOT INCLUDE PAVEMENT REPLACEMENT. I.E. %-INCH WATER SERVICE CONNECTIONS (SHORT SERVICE)
 - B. LONG SERVICE SHALL BE ANY SERVICE LINE THAT IS GREATER THAN 25-FEET UP TO 80-FEET IN LENGTH LONG SERVICES INCLUDE PAVEMENT REPLACEMENT AND/ OR COST TO BORE. EXAMPLE: 1/-IN WATER SERVICE CONNECTIONS (LONG SERVICE)
 - C. SHORT AND LONG SERVICE LINES EXCEEDING THE ABOVE PARAMETERS WILL BE COMPENSATED FOR LINEAR FOOTAGE ABOVE AND BEYOND, COMPENSATION SHALL BE PAID AS "SERVICE LINES, EXTENSION", PER LF
- 16. SERVICE LINES ON NON-ARTERIALS SHALL BE EITHER COPPER TUBING (TYPE K SOFT ANNEALED CONFORMING TO ASTM B 88) OR PEX TUBING (UPPOROR AQUA PEX 5206 BLUE CONFORMING TO ASTM F876/F877/F2023). PEX TUBING IS NOT PERMITTED WITHIN ARTERIAL RIGHT OF WAY. WHEN CONTRACTOR ELECTS TO USE PEX TUBING:
 - A. %-INCH WATER SERVICE CONNECTION SHALL USE 1-INCH PEX TUBING MINIMUM
 - B. 1-INCH WATER SERVICE CONNECTION SHALL USE 11/2-INCH PEX TUBING MINIMUM
- 17. CONTRACTOR'S PLUMBER SHALL PROVIDE AN INFORMATIONAL BROCHURE TO THE PROPERTY OWNERS OUTLINING THE STEPS REQUIRED TO THOROUGHLY FLUSH THEIR WATERLINES AFTER CONNECTION TO THE NEW WATER MAIN. ALL COSTS TO PRODUCE AND DISTRIBUTE THE BROCHURE SHALL BE INCLUDED IN THE PRICE BID FOR THIS ITEM.
- 18. THE "OWNERS ALLOWANCE" CAN BE USED FOR VARIOUS WORK AND MISCELLANEOUS ITEMS NOT IDENTIFIED IN THE CONTRACT DOCUMENTS WITH THE FOLLOWING PROVISIONS: THE ALLOWANCE SHALL BE USED FOR COST OF MATERIALS, LABOR, INSTALLATION AND OVERHEAD AND PROFIT FOR ADDITIONAL WORK AND MISCELLANEOUS ITEMS THAT ARE NOT IDENTIFIED IN THE CONSTRUCTION DOCUMENTS AND PLANS, AND NOT INCLUDED IN THE BID ITEMS OF THE CONTRACT.
 - A. THE ALLOWANCE SHALL BE USED ONLY AT THE DISCRETION OF THE CITY. ANY ALLOWANCE BALANCE REMAINING AT THE COMPLETION OF THE PROJECT WILL BE CREDITED BACK TO THE CITY ON THE FINAL APPLICATION FOR PAYMENT SUBMITTED BY THE CONTRACTOR.
 - B. THE CONTRACTOR SHALL PROVIDE, TO THE CITY, A WRITTEN REQUEST FOR THE USE OF ANY ALLOWANCE, WITH A SCHEDULE OF VALUES, AND ALL ASSOCIATED BACKUP INFORMATION, INCLUDING ANY TIME EXTENSIONS REQUIRED TO PERFORM THE WORK.
 - C. THE CONTRACTOR SHALL PROCEED WITH THE WORK INCLUDED IN THE ALLOWANCE ONLY AFTER RECEIVING A WRITTEN ORDER FROM THE ENGINEER AND CITY AUTHORIZING SUCH WORK. PROCEEDING WITH WORK IN THE ALLOWANCE WITHOUT A WRITTEN ORDER FROM THE CITY WILL BE AT THE CONTRACTOR'S EXPENSE.
- 19. WHERE PLANS IDENTIFY A 22.5-DEG OR 11.25-DEG VERTICAL OR HORIZONTAL BEND, HDPE WILL BE DEFLECTED PER MANUFACTURER'S MINIMUM ALLOWABLE BEND RADIUS.
- 20. WHERE PLANS IDENTIFY A CROSS, HDPE WILL USE TWO (2) TEE'S. NO ADDITIONAL PAYMENT SHALL BE MADE.
- 21. TOP OF VALVE BOX SHALL BE FLUSH WITH FINISHED GRADE.
- 22. THE CONTRACTOR SHALL RESTORE ALL DISTURBED AREAS TO A CONDITION EQUAL TO OR BETTER THAN THE EXISTING IMPROVEMENTS. LIMITS OF DISTURBANCE SHALL NOT EXCEED 9- FEET CENTERED ON THE WATERLINE, ANY DISTURBANCE OUTSIDE OF THIS AREA SHALL RESTORED AT THE CONTRACTORS EXPENSE. STREETS, DRIVEWAYS AND ASSOCIATED ITEMS SHALL BE PAID FOR UNDER OTHER ITEMS OF WORK
- 23. THE CONTRACTOR SHALL RESTORE ALL DISTURBED GRASS AREAS TO A CONDITION FOURL TO OR BETTER THAN THE EXISTING CONDITION THE CONTRACTOR SHALL REPLACE THE SOD TO MATCH IN-KIND AND QUALITY, LIMITS OF DISTURBANCE SHALL NOT EXCEED 9-FEET CENTERED ON THE WATERLINE ANY DISTURBANCE OUTSIDE OF THIS AREA SHALL BE RESTORED AT THE CONTRACTORS EXPENSE.

- 24. SPOT ELEVATIONS ON THE MAIN WATER LINE RELATIVE TO FINISHED GRADE SHALL BE PROVIDED AT EACH 100-FT INTERVAL, COMPLETE WITH STATION AND OFFSET. IN ADDITION, ALL VALVES, FITTINGS, FIRE HYDRANTS (TOP OF NUT) AND OTHER MAJOR APPURTENANT ITEMS SHALL BE SHOWN WITH THE PROPER DESCRIPTION, STATION, OFFSET (MORTHING, EASTING) AND ELEVATION PER PLAN SURVEY CONTROL DATUM.
- 25. SPOT ELEVATIONS ON WATER METER CANS, VAULTS, SHALL BE SHOWN WITH THE PROPER DESCRIPTION (METER TYPE, METER SIZE, METER NUMBER, SERVICE MATERIAL, SERVICE SIZE), STATION, OFFSET (NORTHING, EASTING) AND ELEVATION PER PLAN SURVEY CONTROL DATUM.
- 26. WORK UNDER THIS ITEM SHALL INCLUDE FURNISHING AND INSTALLING <u>HDPE WALL ANCHOR</u> AS SHOWN ON DRAWINGS OR AS DIRECTED BY THE ENGINEER. THE UNIT PRICE SHALL INCLUDE THE COST OF ALL LABOR, EQUIPMENT AND MATERIALS REQUIRED. NO ADDITIONAL PAYMENT SHALL BE MADE FOR EXCAVATION, BACKFILLING, OR CONCRETE BLOCKING.
- 27. PRESSURE TESTING AND CHLORINATION OF WATER MAINS SHALL NOT BE PERFORMED UNTIL THE CITY INSPECTOR HAS RECEIVED REQUIRED CONSTRUCTION RECORD DRAWINGS

28. NOT USED

- 29. ROADWAY STRIPING DAMAGE BY CONTRACTOR SHALL BE REPLACED IN FULL AND IN LIKE KIND COMPLETELY, UNDER THIS BID ITEM
- 30. MUELLER SERVICE PLUGS, OR EQUAL. USE SIZE PLUG AS REQUIRED. AS DIRECTED BY ENGINEER
- 31. COST INCLUDES VERTICAL FIRE HYDRANT SHOE ON SHT 18 STA 83+59 TO PLACE FIRE HYDRANT IN VERTICAL POSITION.
- 32. MATCH EXISTING SOD. SUBMIT SCHEDULE FOR APPROVAL.
- 33. REUSE SAFETY FENCE AS REQUIRED.
- 34. ALL TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH LATEST MUTCH STANDARDS.
- 35. BORING TO BE DONE UNDER ASPHALT AND CONCRETE STREETS AND DRIVEWAYS AND WHERE INDICATED FOR TREE BORES UNDER DRIP LINES. STEEL CONDUIT FOR BORES NOT TO BE USED ON THIS BID ITEM. ADDITIONAL BORE PITS MAY BE PLACED IN TREE BORES FOR CONVENIENCE AS DIRECTED BY ENGINEER; NO ADDITIONAL PAYMENT SHALL BE MADE. ONLY 8" HDPE OR 6" DIP MAY BE BORED.
- 36. SIDEWALKS THROUGH DRIVEWAY SHALL BE 6" THICK AND PAID AS DRIVEWAY.
- 37. REUSE SILT FENCE AS REQUIRED BY SITE CONDITIONS IN ACCORDANCE COT STANDARD 126. MAXIMUM PAY QUANTITY 160LF
- 38. ALL HDPE PIPE AND FITTING SHALL BE PE 4710 DR11 IPS.
- 39. FITTING CONNECTING HOPE TO DIP SHALL BE INCLUDED IN THE COST OF HOPE PIPE.
- 40. COST OF HDPE WALL ANCHOR FITTING, REINFORCEMENT STEEL, CONCRETE AND ALL LABOR AND MARIALS TO INSTALL THESE ITEMS ARE TO BE INCLUDED IN THE PRICE OF THE HDPE ANCHOR (EACH). NO ADDITIONAL PAYMENT SHALL BE MADE. REFER TO DETAIL ON SHEET 40. 41. INCLUDES CONCRETE COLLAR IN ASPHALT AND GRASS SURFACES PER DETAILS SHEET 18.
- 42. INCLUDES COSTS OF LICENSED PLUMBER TO REPAIR ANY DAMAGED ONG SERVICE LINE.
- 43. COST INCLUDES EBAA MEGASTOPS , OR EQUAL, INSTALLED ON ALL PVC JOINTS THRU BORES TO PREVENT OVERBELLING.
- 44. FOR CONNECTING TO OUT-OF-ROUND CIP. SMITH-BLAIR 413 OR EQUAL, IF CONNECTIONS TO OUT-OF-ROUND CIP PIPE IS ENCOUNTERED.
- 45. THE CONTRATOR SHALL BE RESPONSIBLE TO REMOVE ALL TRAFFIC SIGNS AS REQUIRED TO PERFORM WORK, ALL SIGNS SHALL BE REINSTALLED ASAP AFTER PIPE WORK IS COMPLETE. COST SHALL BE INCLUDED IN RIGHT-OF-WAY CLEARING AND RESTORATIO
- 46. MARKER BALLS SHALL BE INSTALLED ABOVE ALL FITTINGS, BLIND FLANGES, SERVICE TAPS, AND EVERY 100 FEET IF THE DISTANCE BETWEEN FITTINGS IS GREATER THAN 100 FEET AS SHOWN ON THE ATTACHED SPECIAL DRAWING, DATED NOVEMBER 2019. COST OF MARKER BALLS SHALL BE INCLUDED IN UNIT PRICE BID FOR EACH PIPE TYPE. MARKERS SHALL BE VIVAX WATER MARKER BALLS OR EQUAL THAT WORK WITH THE VIVAX VLOC3 PRO RECEIVER AND LOC3-10TX TRANSMITTER. LOCATOR BALL INSTALLATIONS ARE ATTACHED. THE CONTRACTOR SHALL PROVIDE THE CITY INSPECTOR, AT THE BEGINNING OF THE PROJECT, THE LOCATOR EQUIPMENT AS SPECIFIED BELOW. THE LOCATOR EQUIPMENT SHALL BE PAID BY THE CONTRACTOR UNDER BID ITEM 3, PROCURED IN CITY OF TULSA'S NAME, EQUIPMENT RETAINED BY TULSA INSPECTION AND WARRANTY IN TULSA NAME AFTER PROJECT IS COMPLETE. THE EQUIPMENT WILL BECOME THE PROPERTY OF THE CITY AND IS NOT RETURNABLE. THE LOCATOR EQUIPMENT TO LOCATE THE MARKER BALLS (ITEM 1) ARE AS FOLLOWS:
 - i. RTK-Pro Receiver with Tx-Link, Order Code: 1.226.01.00001
 - ii. Bag, Lcc3 Series Transmitters, Order Code: 2.219.02.00011
- 47. CONNECTIONS BETWEEN NEW DIP AND NEW PVC SHALL UTILIZE NEW DIP / NEW PVC BELLS AND SPIGOTS. UNLESS OTHERWISE DIRECTED. SOLID SLEEVES ARE FOR CONNECTIONS TO EXISTING DIP.
- 48. CONTRACTOR MAY DIVIDE LONG BORES INTO SHORTER BORES TO FACILITATE CONSTRUCTION. NO ADDITIONAL PAYMENT SHALL BE MADE. 49. CONTRACTOR, AS ALLOWED BY ENGINEER, MAY EXTEND BORES TO FACILITATE CONSTRUCTION. NO ADDITIONAL PAYMENT SHALL BE MADE.
- 50. COST INCLUDES LABOR, MATERIALS, AND EQUIPMENT TO REMOVE AND DISPOSE OF EXISTING 24" OAK TREE AT STA 92+73 ON SHT 20
- SHALL BE INCLUDED IN COST OF ASPHALT CONCRETE. TACK COAT SHALL BE APPLIED IN ACCORDANCE WITH ODO'T SPECIFICATIONS SECTION 407

WATER CONSTRUCTION NOTES

- COMPACTION
- - - - NTERSECTION.
 - 10 WORK, PHONE 1-800-522-6543.

 - CITY LIMITS OF THISA

- 1 \51. THE COST OF TACK COAT, EDGE JOINT SEAL MATERIAL AND SCREENINGS FOR BLOTTING, AND ALL LABOR ASSOCIATED WITH THESE ITEMS,
- PLAN QUANTITIES TO PERFORM OPEN-CUT PIPE INSTALLATION SHALL BE PAID. CONFLICTING WITH PROPOSED WATER MAIN.

1. THE CITY OF TULSA FIELD ENGINEERING DEPARTMENT SHALL INSPECT ALL TRENCHING, BEDDING, PIPE INSTALLATION, BACKFILL AND

ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH CURRENT STANDARD SPECIFICATIONS AND STANDARD DETAILS. CITY OF TULSA ENGINEERING SERVICES DEPARTMENT

3. EXISTING SERVICE CONNECTIONS ARE TO BE KEPT IN SERVICE UNTIL CONNECTIONS TO NEW MAIN ARE MADE. ALL SERVICE LINE RECONNECTIONS SHALL BE MADE BY THE CONTRACTOR. <u>SERVICE RECONNECTIONS</u> SHALL BE INSTALLED AS PER CITY OF TULSA STANDARD SPECIFICATIONS AND STANDARD DETAILS.

4. MINIMUM COVER OVER WATER LINES SHALL BE AS NOTED ON PLANS.

5. CONTRACTOR SHALL REPLACE EXISTING GRASS WITH SEED/SOD OF SAME TYPE AND VARIETY OR AS NOTED ON PLANS.

6. CONTRACTOR SHALL BORE EXISTING TREES UNDER DRIP LINE, UNLESS DIRECTED OTHERWISE BY ENGINEER.

7. CONTRACTOR SHALL BORE EXISTING DRIVEWAYS, UNLESS DIRECTED OTHERWISE BY ENGINEER

8. WATER OPERATIONS <u>SHALL OPERATE ALL VALVES ON TRANSMISSION MAINS (16" AND LARGER).</u> CONTRACTOR SHALL OPERATE ALL VALVES ON DISTRIBUTION MAINS (SMALLER THAN 16") WITH THE COORDINATION OF FIELD ENGINEERING AND WATER OPERATIONS AND IN THE PRESENCE OF A FIELD ENGINEERING INSPECTOR.

A. ATTEMPTS WILL BE MADE WITH ASSISTANCE FROM THE CONTRACTOR TO NOTIFY ALL AFFECTED CUSTOMERS 48- HOURS IN ADVANCE, PARTICULARLY IF COMMERCIAL OR INDUSTRIAL CUSTOMERS ARE INVOLVED. PRIOR TO SHUTDOWN, FIELD ENGINEERING WILL NOTIFY WATER OPERATIONS, AT 918-596-9488, GIVING AN ESTIMATED DOWNTIME, WATER OPERATIONS WILL NOTIFY THE FIRE DEPARTMENT OF ALL FIRE HYDRANTS OUT OF SERVICE AND WHEN THEY ARE BACK IN SERVICE, BY STREET ADDRESS OR

B. WHERE COMMERCIAL, INDUSTRIAL, OR CRITICAL CUSTOMERS ARE AFFECTED, AND FOR ALL LINES 16-INCH AND LARGER IN SIZE, FIELD ENGINEERING WILL REQUEST WATER OPERATIONS TO SHUT DOWN THE MAIN. THERE WILL BE A MINIMUM OF 48-HOUR NOTICE TO WATER OPERATIONS.

CONTRACTOR SHALL PROVIDE AT LEAST 48 HOUR NOTICE TO ALL RESIDENTS OR BUSINESSES AFFECTED BEFORE TURNING OFF ANY WATER. CONTRACTOR SHALL BE RESPONSIBLE FOR PLACING DOOR HANGERS ON AFFECTED HOMES AND BUSINESSES. CONTRACTOR SHALL GIVE THE NOTIFICATION CENTER OF THE OKLAHOMA ONE-CALL SYSTEM, INC, NOTICE OF ANY EXCAVATION NO SOONER THAN 48 HOURS OR LATER THAN 10 DAYS, EXCLUDING SATURDAYS, SUNDAYS, LEGAL HOLIDAYS PRIOR TO COMMENCEMENT OF

11. LOCAL AND THROUGH TRAFFIC SHALL BE MAINTAINED THROUGH PROJECT AT ALL TIMES. OPEN CUT STREET CROSSINGS REQUIRE AN APPROVED TRAFFIC CONTROL PLAN WITH TRAFFIC CONTROL DEVICES IN ACCORDANCE WITH CURRENT MUTCD REQUIREMENTS.1 12. ANY DAMAGE CAUSED BY CONTRACTOR TO ADJACENT TRAFFIC SIGNAL INFRASTRUCTURE SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE TRAFFIC ENGINEER.

13. PRIOR TO PAVEMENT SAWING AND EXCAVATION NEAR SIGNALIZED INTERSECTION, CONTRACTOR SHALL CONTACT ENGINEERING SERVICES, TRAFFIC OPERATIONS, 918-596-9766, FOR SITE SPECIFIC, UNDERGROUND TRAFFIC UTILITY LOCATES.

14. CONSTRUCTION FOR ALL ENGINEERING SERVICES FACILITIES SHALL BE IN COMPLIANCE WITH THE LATEST EDITION OF TITLE 252, DEPARTMENT OF ENVIRONMENTAL QUALITY, CHAPTER 626, PUBLIC WATER SUPPLY CONSTRUCTION STANDARDS, OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY (ODEQ).

15. ALL EXCAVATED MATERIAL NOT REQUIRED IN OTHER AREAS OF THE PROJECT SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF BY THE CONTRACTOR IN A MANNER ACCEPTABLE TO THE ENGINEER WITHOUT COST TO THE CITY. THE CONTRACTOR SHALL BE REQUIRED TO OBTAIN AN EARTH CHANGE PERMIT IF ANY EXCESS MATERIAL IS TO BE DISPOSED OF WITHIN THE

16. ANY CHANGES FROM APPROVED PLANS SHALL BE SUBMITTED TO THE CITY OF TULSA FOR WRITTEN APPROVAL PRIOR TO INSTALLATION.





NOTES

2" WATERLINE REPLACEMENT TMUA-W 18-14

CITY OF TULSA, OKLAHOMA ENGINEERING SERVICES DEPARTMENT

KEITHLINE ENGINEERING GROUP

REVISION	REVISION BY		PLAN SCALE	DRAWN	111	XX-XX-XX	APPROVED
ADDENDUM 01	KE	12/16/20		DESIGNED		xx-xx-xx	1
				SURVEY	-	xx-xx-xx	1
4			PROFILE SCALE	PROJECT MGR			1
			HORIZONTAL	LEAD ENGINEER			1
			2222	FIELD MGR			1
			VERTICAL	RECOMMENDED			1
			100 C	DESIGN MANAG	ER		CITY ENGINEER
			FILE		DATE		
			ATLAS PAGE NO	107			SHEET 03 OF 36 SHEE















