

Document 00910

ADDENDUM NO. 3

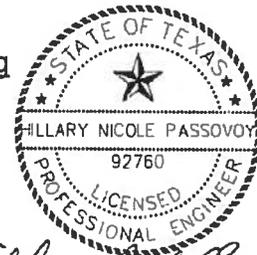
Date of Addendum: April 22, 2016

PROJECT NAME: Neighborhood Street Reconstruction (NSR) Project 456

PROJECT NO: WBS No.N-000388-0001-4

BID DATE: April 28, 2016 (There is no change to the Bid Date.)

FROM: J. Timothy Lincoln, P.E., City Engineer
City of Houston, Department of Public Works and Engineering
611 Walker, 14th Floor, Houston, TX 77002
Houston, Texas 77002
Attn: Ben Bansal, P.E., Project Manager



A handwritten signature in black ink that reads "Hillary Nicole Passovoy". The signature is written in a cursive style and is positioned to the right of the professional engineer seal.

TO: Prospective Bidders

This Addendum forms a part of the Bidding Documents and will be incorporated into the Contract documents, as applicable. Insofar as the original Project Manual and Drawings are inconsistent, this Addendum governs.

ADDENDUM NO. 3

CHANGES TO PROJECT MANUAL

BIDDING REQUIREMENTS

1. Document 00410B – BID FORM – PART B (Remove and Replace all pages: Modified item description for street lighting conduit; Modified quantities for sanitary sewer items; Modified quantities for extra unit items.)
2. Document 01110 – Summary of Work (Remove and Replace all pages: Revision to scope of work items related to the 16-inch sanitary sewer force main.)

CONTRACT FORMS

1. NONE.

CONDITIONS OF THE CONTRACT

1. NONE.

CHANGES TO DRAWINGS

1. The proposed 16" Sanitary Sewer Force Main WILL NOT be part of this project.

CLARIFICATIONS

1. The specification listed for the 16" Sanitary Sewer Force Main Pipe Bursting does not cover pipe bursting, and pipe bursting is not an acceptable method of replacement for DIP?

Response: All items related to the 16-inch Sanitary Sewer Force Main have been deleted and will not be completed as part of this project. All items in the 00410 Document are now listed as "ITEM DELETED"

2. Can a pay item per LF for bypass pumping be added in case it is need for pipe bursting?

Response: All items from related to the 16" Sanitary Sewer Force Main have been deleted.

3. Can a pay item per EA (7 EA) for Air release manholes called out on the plans?

Response: No, Per the specification 02522 Butterfly Valves, the pay item includes the manhole, actuator and appurtenances necessary for complete installation of the valve.

4. For pay item no. 19 "Conduit 4-inch sch 80 PVC", please clarify size as 2-inch is usually used and as called out on the plans.

Response: Item 19 in the 00410 Document has been revised to "Conduit 2-inch Sch 80 PVC".

5. Please confirm that pay item no. 115 "24-inch butterfly valve" includes the operator manhole.

Response: Per the specification 02522 Butterfly Valves, the pay item includes the manhole, actuator and appurtenances necessary for complete installation of the valve. The detail is shown on sheet 176B in the drawing plan set.

6. All items related to sanitary sewer point repairs (items 125-128) have been moved from Sanitary Sewer to Extra Unit Items (items 150a-150d) on the Document 00410.

7. All scope of work items related to the 16" sanitary sewer force main have been removed in the Document 01110. This includes:

- Part 1 General, Section 1.02 Paragraph A. 6. Replacement (by pipe bursting) of force main on Wycliffe Drive,

- Section 1.02 Paragraph E. 2. Grout fill and abandon 16-inch sanitary sewer force main, and
- Section 1.02 Paragraph E. 4. Construction of a 16-inch force main by pipe bursting with a section of open cut at a Kinder Morgan pipeline crossing.

END OF ADDENDUM NO. 3

DATED:



Ravi Kaleyatodi, P.E., CPM
Senior Assistant Director
Department of Public Works and
Engineering



RK:MS:BB:RF:sdd

END OF DOCUMENT

Document 00410B

BID FORM – PART B

1.0 TOTAL BID PRICE HAS BEEN CALCULATED BY BIDDER, USING THE FOLLOWING COMPONENT PRICES AND PROCESS (PRINT OR TYPE NUMERICAL AMOUNTS):

A. STIPULATED PRICE: \$ 0.00 (N/A)

(Total Bid Price; minus Base Unit Prices, Extra Unit Prices, Cash Allowances and All Alternates, if any)

B. BASE UNIT PRICE TABLE:

Item No.	Spec No.	Item Description	Unit Measure	Unit Quantity	Unit Price (this column controls)	Total In Figures
GENERAL ITEMS						
1	01502	Mobilization	LS	1	\$250,000.00 ⁽¹⁾	\$250,000.00 ⁽¹⁾
2	01554	Street Signs (Small)	EA	90		
3	01554	Street Signs (Large)	EA	92		
4	01555	Traffic Control and Regulation	LS	1	\$150,000.00 ⁽²⁾	\$150,000.00 ⁽²⁾
5	01555	Flagmen	LS	1	\$112,000.00 ⁽²⁾	\$112,000.00 ⁽²⁾
6	01555	Install low profile concrete barriers	LF	1,100		
7	01555	Relocate low profile concrete barriers	LF	28,100		
8	01555	Remove low profile concrete barriers	LF	1,100		
9	01562	Tree and plant protection	LS	1	\$33,000.00 ⁽²⁾	\$33,000.00 ⁽²⁾
10	01570	Filter fabric fence	LF	26,785		
11	01570	Straw Bale Barrier	LF	1,728		
12	01570	Inlet Protection Barrier	LF	120		
13	01570	Sandbag Barrier	LF	736		
14	01575	Stabilized construction exit	SY	1,467		
15	02105	Preparatory Work for Sampling and Analysis in PPCA	LS	1	\$10,000.00 ⁽²⁾	\$10,000.00 ⁽²⁾
16	02120	6-inch Over Excavate Trench Bottom in PPCA	LF	1,765		
17	02120	Transportation and disposal of Class II soils	CY	2,112		

18	02120	Transportation and Disposal of Contaminated Groundwater from PPCA	GAL	500		
19	02581	Conduit 2-inch Sch 80PVC	LF	15,989		
20	02915	Tree planting	EA	24		
21	02922	Sodding	SY	49,642		
22	02221	Remove and Dispose of Asphaltic surface (all thickness, including base & subgrade, w/ or w/o curb, all depths)	SY	33,854		
23	02221	Remove and disposing of concrete pavements (including all thickness, w/ or w/o asphalt, including base & subgrade, w/ or w/o curb, all depths)	SY	667		
24	02221	Remove/Dispose Conc driveway 6-inch thick/More	SY	10,291		
25	02221	Remove/ Dispose Conc Sidewalk 4-inch thick/More	SY	853		
26	02221	Remove/Dispose of 6-inch diameter storm pipe	LF	26		
27	02221	Remove/Dispose of 8-inch diameter storm pipe	LF	71		
28	02221	Remove/Dispose of 12-inch diameter storm pipe	LF	143		
29	02221	Remove/Dispose of 15-inch diameter storm pipe	LF	164		
30	02221	Remove/Dispose of 18-inch diameter storm pipe	LF	5,745		
31	02221	Remove/Dispose of 21-inch diameter storm pipe	LF	245		
32	02221	Remove/Dispose of 24-inch diameter storm pipe	LF	2,594		
33	02221	ITEM DELETED	LF	0		
34	02221	Remove/Dispose of 36-inch diameter storm pipe	LF	54		
35	02221	ITEM DELETED	LF	0		
36	02221	Remove and Dispose of 4-inch diameter PVC storm pipe	LF	21		
37	02221	Remove and Dispose of Driveway Headwalls and End Treatments (All Sizes & Types)	EA	8		
38	02221	Removal and relocate existing standard mailbox to suit new pavement edge	EA	58		
39	02221	Removal of existing non-standard mailbox and return to owner	EA	2		
40	02221	Remove existing private improvement and return to owner	EA	5		

41	02233	Clearing and grubbing	AC	14.170		
TOTAL GENERAL ITEMS						

PAVING ITEMS						
Item No.	Spec No.	Item Description	Unit Measure	Unit Quantity	Unit Price (this column controls)	Total In Figures
42	02315	Roadway Excavation with or without subgrade	CY	40,482		
43	02315	Embankment Fill (Optional)	CY	6,484		
44	02336	Lime Stabilized Subgrade 6-inch thick	SY	24,527		
45	02336	Lime Stabilized Subgrade 8-inch thick	SY	31,152		
46	02336	Lime for Lime Stabilized Subgrade (DRY WEIGHT)	TON	743		
47	02714	Flexible Base Course/Temp Driveways Residential upto 12 feet wide	EA	268		
48	02714	Flexible Base Course/Temp Driveways (Commercial) upto 24 feet wide	EA	27		
49	02741	Hot Mix Asphalt Concrete Pavement for Detour/ Roadway and Shoulder	SY	3,750		
50	02741	Hot Mix Asphaltic Concrete Pavement 1.5-inch thick	TON	19		
51	02711	Hot Mix Asphalt Base Course (Type A/B) / All Thickness	TON	79		
52	02751	Reinforced Concrete Pavement 7-inch thick	SY	19,232		
53	02751	High Early Strength Reinforced Concrete Pavement 7-inch thick	SY	2,508		
54	02751	Reinforced Concrete Pavement 8-inch thick	SY	24,958		
55	02751	High Early Strength Reinforced Con Pav 8-inch thick	SY	2,325		
56	02752	Street Pavement Expansion Joint with Load transfer	LF	5,650		
57	02752	Horizontal Dowel, 24-Inch	EA	5,650		
58	02754	Concrete Driveways including Excavation 6-inch thick	SF	73,387		
59	02754	Concrete Driveways including Excavation 7-inch thick	SF	8,844		
60	02771	6-Inch Concrete Curb (Monolithic)	LF	26,385		
61	02771	Concrete Paving Header	LF	542		
62	02775	Sidewalk 4-1/2-inch thick	SF	133,923		
63	02775	Reinforced Concrete Slope Paving	SF	945		

64	02775	Curb Ramp	SF	2,668		
65	HC 493	Rip-rap Gradation No. 2, 24-inch thick mat	SY	105		
TOTAL PAVING ITEMS						

STORM SEWER ITEMS						
Item No.	Spec No.	Item Description	Unit Measure	Unit Quantity	Unit Price (this column controls)	Total In Figures
66	02081/ 02082/ 02087	Type C manhole for 42-inch diameter and smaller sewers	EA	48		
66a	02081/ 02082/ 02087	Type C manhole for 42-inch diameter and smaller sewers in PPCA	EA	12		
67	02082	Type C Conflict Manholes (24 inch-48 inch)	EA	9		
68	02081/ 02082/ 02087	Type C manhole for 48-inch to 72-inch diameter sewers	EA	14		
69	02081/ 02082/ 02087	Manhole for concrete box sewers	EA	3		
70	02633	Junction Box with lid or grate top for storm sewer	EA	7		
71	02086	Adjust Storm & Sanitary Manholes to Grade	EA	2		
72	02222	Plug and Abandon 15" Storm Sewer	EA	1		
73	02221	Remove/Dispose Manholes all Sizes/depth	EA	42		
74	02221	Remove/Dispose Junction box all Sizes/depth	EA	2		
75	02631	24-inch diameter storm sewer by open cut	LF	3,401		
75a	02631	24-inch diameter storm sewer by open cut in PPCA	LF	396		
76	02631	24-inch diameter RCP Storm Sewers (CL IV)	LF	797		
76a	02631	24-inch diameter RCP Storm Sewers (CL IV) in PPCA	LF	91		
77	02631	30-inch diameter storm sewer by open cut	LF	1,110		
78	02631	36-inch diameter storm sewer by open cut	LF	2,467		
78a	02631	36-inch diameter storm sewer by open cut in PPCA	LF	48		
79	02631	42-inch diameter storm sewer by open cut	LF	222		
79a	02631	42-inch diameter storm sewer by open cut in PPCA	LF	192		
80	02631	48-inch diameter storm sewer by open cut	LF	3,004		

81	02631	48-inch diameter RCP Storm Sewers (CL IV)	LF	406		
82	02631	60-inch diameter storm sewer by open cut	LF	56		
83	02631	Remove and replace exist yard drain	LF	390		
84	02631	4-foot by 2-foot box storm sewer by open cut	LF	801		
85	02632/ 02633	Type A grate inlet	EA	4		
86	02632/ 02633	Type BB Inlet	EA	46		
86a	02632/ 02633	Type BB Inlet in PPCA	EA	1		
87	02633	Type C-1 inlet	EA	16		
87a	02633	Type C-1 inlet in PPCA	EA	1		
88	02633	Type C-2 inlet	EA	2		
89	02260	Trench Safety System	LF	13,030		
TOTAL STORM SEWER ITEMS						

WATER ITEMS						
Item No.	Spec No.	Item Description	Unit Measure	Unit Quantity	Unit Price (this column controls)	Total In Figures
90	02221	Remove/Dispose 8-inch diameter AC water line	LF	4,542		
91	02221	Remove/Dispose 12-inch diameter PVC water line	LF	630		
92	02221	Remove and Properly Dispose of Existing 24-inch PVC Diameter Waterline (all depths and types)	LF	370		
93	02516	Cut, plug, and abandon existing 6-inch diameter water line	EA	17		
94	02516	Cut, plug, and abandon existing 8-inch diameter water line	EA	7		
95	02516	Cut, plug, and abandon existing 12-inch diameter water line	EA	9		
96	02516	Cut, plug, and abandon existing 24-inch diameter water line	EA	6		
97	02520	Remove and salvage existing fire hydrant	EA	22		
98	02511	8-inch diameter water line by open-cut	LF	3,384		
99	02511	8-inch diameter water line by open-cut with restrained joints	LF	375		
100	02511	8-inch diameter DIP water line by open-cut with restrained joints within limits of PPCA	LF	483		
100a	02511	8-inch diameter DIP water line by open-cut with restrained joints	LF	60		
101	02511	12-inch diameter water line by open-cut with restrained joints	LF	540		

103	02511	24-inch diameter water line by open-cut with restrained joints	LF	215		
104	02511	24-inch diameter water line within limits of PPCA with restrained joints	LF	95		
105	02511	16-inch diameter Steel Casing for 8-inch diameter PVC Waterline	LF	216		
106	02511	24-inch diameter Steel Casing for 12-inch diameter PVC Waterline	LF	54		
107	02511	36-inch diameter Steel Casing for 24-inch diameter PVC Waterline	LF	18		
108	02512	3/4-inch to 1-inch diameter water taps and copper service line with meter box, short side	EA	48		
109	02512	3/4-inch to 1-inch diameter watertaps and copper service line with meter box, long side	EA	101		
110	02513	12-inch diameter wet connection	EA	8		
111	02513	24-inch diameter wet connection	EA	6		
112	02526	Relocation and reinstallation of small water meter 3/4" to 1" with new box	EA	67		
113	02520	Fire hydrant assembly, all depths, including 6-inch diameter gate valve and box	EA	40		
114	02520	6-inch diameter fire hydrant branch by open-cut	LF	234		
115	02522	24-inch diameter butterfly valve	EA	7		
116	02525	12-inch by 6-inch diameter tapping sleeve and valve	EA	13		
117	02525	12-inch by 8-inch diameter tapping sleeve and valve	EA	1		
118	02525	12-inch by 12-inch diameter tapping sleeve and valve	EA	6		
119	02525	24-inch by 6-inch diameter tapping sleeve and valve	EA	10		
120	02525	8-inch by 6-inch diameter tapping sleeve and valve	EA	6		
TOTAL WATER ITEMS						

SANITARY SEWER ITEMS						
Item No.	Spec No.	Item Description	Unit Measure	Unit Quantity	Unit Price (this column controls)	Total In Figures
121	02221	Remove and Dispose of Existing Manhole	EA	32		
122	02221	Remove and Dispose 8 inch sewer line	LF	6,312		
122A	02221	Remove and Dispose 6 inch sewer line	LF	4,500		
123	02081	4-foot dia cast in place concrete manhole	EA	33		

123a	02081	4-foot dia cast in place concrete manhole within PPCA	EA	2		
124	02086	Adjustment of existing manhole and frame and cover to new grade	EA	17		
125	02553	ITEM DELETED	EA	0		
126	02553	ITEM DELETED	LF	0		
127	02553	ITEM DELETED	EA	0		
128	02553	ITEM DELETED	LF	0		
129	02222	Abandon and grout fill 8-inch diameter sanitary sewer	LF	807		
130	02531	6-inch diameter sanitary sewer, by open-cut	LF	3,611		
130a	02531	6-inch diameter sanitary sewer, by open-cut within PPCA	LF	180		
131	02531	8-inch diameter sanitary sewer, by open-cut	LF	6,638		
132	02531	8-inch diameter sanitary sewer within PPCA	LF	481		
133	02222	ITEM DELETED	LF	0		
134	02222	ITEM DELETED	LF	0		
135	02532	ITEM DELETED	LF	0		
136	02534	Sanitary Sewer Service stubs or Reconnections by excavation including construction of stack to liner (complete, all sizes, all depths) on sanitary sewer	EA	180		
137	02260	Trench Safety System	LF	12,380		
TOTAL SANITARY SEWER ITEMS						

SIGNING AND PAVEMENT MARKINGS						
Item No.	Spec No.	Item Description	Unit Measure	Unit Quantity	Unit Price (this column controls)	Total In Figures
138	02764	Raised Pav Marker Ty II Two face Reflective (W/Y)	EA	40		
139	02767	Shared Lane Symbol	EA	16		
140	02767	Thermoplastic Pavement Marking 12-inch wide White/Yellow	LF	2,461		
141	02767	Thermoplastic Pavement Marking 24-inch wide White/Yellow	LF	301		
142	02767	Thermoplastic Pavement Marking 4-inch wide White/Yellow(SLD/BRK)	LF	28,090		
143	13501	Speed Cushions	EA	16		
TOTAL SIGNING AND PAVEMENT MARKINGS						

C. EXTRA UNIT PRICE TABLE:

EXTRA UNIT PRICES						
Item No.	Spec No.	Item Description	Unit Measure	Unit Quantity	Unit Price (this column controls)	Total In Figures
144	01502	Demobilization/Remobilization	LS	1	\$25,000.00 ⁽¹⁾	\$25,000.00 ⁽¹⁾
145	02318	Extra hand excavation	CY	100	\$20.00 (min) ⁽²⁾	\$2,000.00 (min) ⁽²⁾
146	02318	Extra machine excavation	CY	100	\$15.00 (min) ⁽²⁾	\$1,500.00 (min) ⁽²⁾
147	02318	Extra placement of backfill material	CY	100	\$12.00 (min) ⁽²⁾	\$1,200.00 (min) ⁽²⁾
148	02321	Extra cement-stabilized sand	TON	10	\$60.00 (min) ⁽²⁾	\$600.00 (min) ⁽²⁾
149	02751	Extra class "A" concrete with or without forms	CY	4	\$500.00 (min) ⁽²⁾	\$2,000.00 (min) ⁽²⁾
150	02752	Extra Horizontal Dowels, 3/8"	EA	100	\$10.00 (min) ⁽²⁾	\$1,000.00 (min) ⁽²⁾
150a	02752	Sewer Point Repair, 6 inch-10 inch, up to 10' depth	EA	3	\$1,500.00 (min) ⁽²⁾	\$4,500.00 (min) ⁽²⁾
150b	02752	Pipe Replacement Beyond Point Repair 6 inch-10 inch, up to 10' depth	LF	30	\$65.00 (min) ⁽²⁾	\$1,950.00 (min) ⁽²⁾
150c	02752	Sewer Point Repair, 12 inch-15 inch, 10' to 15' depth	EA	2	\$3,500.00 (min) ⁽²⁾	\$7,000.00 (min) ⁽²⁾
150d	02752	Pipe Replacement Beyond Point Repair 12 inch-15 inch, 10' to 15' depth	LF	20	\$110.00 (min) ⁽²⁾	\$2,200.00 (min) ⁽²⁾
TOTAL EXTRA UNIT PRICES						\$48,950.00

D. CASH ALLOWANCE TABLE:

CASH ALLOWANCES						
Item No.	Spec No.	Item Description	Unit Measure	Unit Quantity	Unit Price (this column controls)	Cash Allowance In Figures (1)
151	01110	Utility Reimbursement	LS	1	\$106,277.00 ⁽¹⁾	\$106,277.00 ⁽¹⁾
152	01110	Street Cut Permit Fee	EA	4	1,000.00 ⁽¹⁾	4,000.00 ⁽¹⁾
TOTAL CASH ALLOWANCES						\$110,277.00

E. TOTAL BID PRICE:

(Add Totals for Items A., B., C., and D. above)

\$ _____

2.0 SIGNATURES: By signing this Document, I agree that I have received and reviewed all Addenda and considered all costs associated with the Addenda in calculating the Total Bid Price.

Bidder: _____
(Print or type full name of your proprietorship, partnership, corporation, or joint venture.*)

**By: _____
Signature Date

Name: _____
(Print or type name) Title

Address: _____
(Mailing)

(Street, if different)

Telephone and Fax Number: _____
(Print or type numbers)

* If Bid is a joint venture, add additional Bid Form signature sheets for each member of the joint venture.

** Bidder certifies that the only person or parties interested in this offer as principals are those named above. Bidder has not directly or indirectly entered into any agreement, participated in any collusion, or otherwise taken any action in restraint of free competitive bidding.

Note: This document constitutes a government record, as defined by § 37.01 of the Texas Penal Code. Submission of a false government record is punishable as provided in § 37.10 of the Texas Penal Code.

Footnotes for Tables B through E:

- (1) Fixed Unit Price determined prior to Bid. Cannot be adjusted by the Bidder.
- (2) Minimum Bid Price determined prior to Bid. Can be increased by the Bidder by crossing out the Minimum and noting revised price on the line above.
- (3) Maximum Bid Price determined prior to Bid. Can be decreased but not increased by Bidder by crossing out the Maximum and noting revised price on the line above. A Bid that increases the Maximum Bid Price may be found non-conforming and non-responsive.
- (4) Fixed Range Bid Price determined prior to Bid. Unit Price can be adjusted by Bidder to any amount within the range defined by crossing out prices noted and noting revised price on the line above.

Section 01110
SUMMARY OF WORK

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Summary of the Work including work by the City, City-furnished Products, work sequence, future work, Contractor use of Premises, special conditions for substantial completion and City occupancy.

1.02 WORK COVERED BY CONTRACT DOCUMENTS

- A. Work of the Contract is for construction of Neighborhood Street Reconstruction (NSR) 456 with approximately 15,430 linear feet of roadway reconstruction including transitions to cross streets in Timberline Road, Chatterton Drive, Timber Oak Drive, and Sherwood Forest Drive. This is a paving and drainage project and the overall improvement consists of:
1. Construction of 27-foot face-to-face (F-F) concrete pavement and curb in most locations but with limited portions that are 30-foot (F-F) which will have a shared lane for bikes.
 2. Construction of 5-foot sidewalks and ADA compliant wheelchair ramps within the limits of the project.
 3. Conversion of open ditch to an underground storm sewer systems within the limits of the project.
 4. Replacement of waterlines on Mayfield Road, Buescher Drive, Ivyridge Road, Hazelhurst Drive, and Metronome Drive.
 5. Replacement (primarily by open cut) of sanitary sewer lines on Mayfield Road, Buescher Drive, Ivyridge Road, Hazelhurst Drive, portions of Wycliffe Drive, Shadow Wood Drive, and Buescher Drive/Britt Way Street/Skyview Street.
 - ~~6. Replacement (by pipe bursting) of force main on Wycliffe Drive. This scope item removed per Addendum 3.~~
- B. The Project Scope for Paving and Sidewalk is to reconstruct the existing roadway which will include but not be limited to the following:
1. Clearing and grubbing from right-of-way to right-of-way.
 2. Removal of existing asphalt paving, including sidewalks and driveways.
 3. Excavation and fill for roadway construction.
 4. Construction of 8-inch thick reinforced concrete pavement, 8-inch lime stabilized subgrade, and 6-inch concrete curbs on Wycliffe Drive, and 7-inch thick reinforced concrete pavement, 6-inch lime stabilized subgrade, and 6-inch curbs on the other side streets.
 5. Construction of high early strength reinforced concrete pavement at all intersections within the project limits.
 6. Installation of sod on all areas of the right-of-way not covered by road, driveway, sidewalk, or curb ramp.
 7. Construction of 6-inch thick residential driveways and 7-inch thick

- commercial driveways.
8. Construction of 5-foot wide, 4½-inch concrete sidewalks (including compacted sand bedding) and wheelchair ramps including headers, dowels, expansion joints, and detectable warning surfaces.
 9. Construction of reinforced concrete slope paving at the north end of Wycliffe Drive.
 10. Removal of existing non-standard mailboxes and other private improvement in the ROW that are to be removed and returned to the owner.
- C. The Project Scope for Drainage is to convert the open ditches to underground closed storm sewer system which will include but not be limited to the following:
1. Removal of existing storm sewer culverts/pipes under driveways, ranging in diameter size from 6-inches to 42-inches.
 2. Removal of all headwalls and end treatments.
 3. Removal of inlets, manholes, and junction boxes.
 4. Installation of reinforced concrete pipe from 24-inch up to 60-inch diameter (Class III and IV), and 4'x2' reinforced concrete box pipe (direct loaded).
 5. Construction of junction boxes with lids.
 6. Installation of storm sewer manholes and types BB, C and A inlets and reconnection of back-lot drains.
 7. All flow lines shall be verified prior to ordering fabrication of the inlets and manholes.
 8. All utility connections to the adjoining Wycliffe Drive Drainage and Paving Improvements Project (M-001010-0001-3) shall not begin until the Wycliffe Drive project's storm sewer and utility installations have been completed on Chatterton Drive and Sherwood Forest.
- D. The Project Scope of Waterlines is to replace older portions of the waterline system which will include but not be limited to the following:
1. Existing waterlines in this project are made of asbestos cement. Contractor shall exercise caution while working near the vicinity of the waterlines.
 2. Removal and disposal of 2-inch to 24-inch waterlines.
 3. Replacement of 8-inch, 12-inch, and 24-inch waterlines by open cut method.
 4. Installation of new water service connections.
 5. Relocation and reinstallation of water meters.
 6. Installation of new fire hydrant assemblies.
 7. Quantities for waterline with restrained joints is accounted for minimum limits/lengths as called out in the profile sheets. There will be no quantity/price adjustments for any extra length of restrained joint placed in the field.
 8. Return salvaged fire hydrants to the City of Houston's Maintenance yard.
 9. All utility connections to the adjoining Wycliffe Drive Drainage and Paving Improvements Project (M-001010-0001-3) shall not begin until the Wycliffe Drive project's storm sewer and utility installations have been completed on Chatterton Drive and Sherwood Forest.

SUMMARY OF WORK

- E. The Project Scope of Sanitary Sewer is to replace older portions of the sanitary sewer system which will include but not be limited to the following:
1. Removal and disposal of sanitary sewer manholes.
 2. Grout fill and abandon 8-inch ~~and 16-inch~~ sanitary sewers, ~~sanitary force mains,~~ and sanitary sewer manholes. This scope item amended per Addendum 3.
 3. Construction of 6-inch and 8-inch sanitary sewer pipes by open cut method and 4-foot diameter sanitary sewer manholes.
 4. ~~Construction of a 16-inch force main by pipe bursting with a section of open cut at a Kinder Morgan pipeline crossing.~~ This scope item removed per Addendum 3.
 5. All flow lines shall be verified in the field prior to ordering fabrication of the manholes.
 6. Sanitary sewer reconnections (with or without stack) have been paid for all service lines on sanitary sewer trunk which is being replaced.
 7. All utility connections to the adjoining Wycliffe Drive Drainage and Paving Improvements Project (M-001010-0001-3) shall not begin until the Wycliffe Drive project's storm sewer and utility installations have been completed on Chatterton Drive and Sherwood Forest.
- F. The Project Scope for Traffic Control Plan is to reconstruct all streets and utilities and other right-of-way (ROW) improvements in a phased plan to the limits shown on the plans which will include but not be limited to the following:
1. Contractor shall construct temporary driveways as needed. Payment of each driveway shall be paid once for the entire duration of the project.
 2. Construction is in a mixed residential and commercial neighborhood. Access to businesses and residences shall be maintained throughout the project duration. Contractor shall phase construction to minimize disruptions to the public.
- G. The Project Scope for Signing and Pavement Markings will include but not be limited to the following:
1. Placement of proposed sign panels includes footings, poles, anchors, and all hardware, complete in place.
 2. Installation of standard City of Houston speed cushions as located in the construction plans and as detailed in the City Detail 01515-01.
- H. The Project Scope for Utility and Other Coordination will include but not be limited to the following:
1. Coordinate with City of Houston utility operations for water and sewer reconnections.
 2. Coordinate with CenterPoint Energy for gas service reconnection and possible relocation of gas meters that are in the front yards close to the ROW.
 3. Coordinate with Kinder Morgan Missouri City Texas operations office (281-886-1802) for a pipeline crossing at two locations, including storm sewer and other utility construction near the pipeline which is to remain in place.
 4. Issue a "Texas One Call" (phone number 811) prior to construction to schedule a Kinder Morgan Damage Prevention inspector to be on

location when work is being conducted within 25-feet of the high pressure natural gas pipeline.

5. Coordinate with Metro (713-739-4000) for bus routes.
 6. Coordinate with adjacent CIP (M-001010-0001-4) contractor for connections to storm sewer and utilities by others at the intersections of Wycliffe Drive and Chatterton Drive and Wycliffe Drive and Sherwood Forest Drive.
 7. Apply for and pull TxDOT permit, see Letter of No Objection (Attachment C).
- I. The Project Scope for Street Lighting is to install street lighting conduits and construct new poles which will include but not be limited to the following:
1. Pull boxes for street lighting will be provided by CenterPoint Energy and shall be installed by the Contractor.
 2. All existing street light poles noted as to be removed or relocated will be removed or relocated by CenterPoint Energy. See section 1.03 Cash Allowances and specification Section 00410B.
 3. All street lighting conduit in close proximity of trees shall be installed using trenchless technology.
- J. The Project Scope for Tree and Plant Protection and for implementation of the Storm Water Pollution Prevention Plan (SWPPP) will include but not be limited to the following:
1. Provide sidewalk as shown in the plans that meanders around protected trees.
 2. Maintain and place SWPPP devices during construction in accordance with guidelines established by Best Management Practices, TCEQ, and EPA. Contractor shall submit all forms to agencies prior to beginning construction activities according to documents herein.

1.03 CASH ALLOWANCES

- A. Complete entire work and site restoration within 660 calendar days from the date of commencement as defined in document 00700 – General Conditions. Failure to meet 660 calendar day completion deadline will result in liquidated damages in accordance with document 00800 – Supplementary Conditions. Include the following specific Cash Allowances in Contract Price under provision of General Conditions Paragraph 3.11:
1. Utility Reimbursement for CenterPoint Street Lighting
 2. Street Cut Permit Fee
- B. Contractor is responsible for obtaining the above mentioned permits prior to any construction activities. In document 00410B of this package, budgets have been allocated as cash allowances for these purposes.

1.04 CITY-FURNISHED PRODUCTS

- A. Contractor's Responsibilities:
1. Contractor will supply in all new construction materials as outlined in

- Schedule of Unit Price Work, Document 00410.
2. Arrange and pay for product delivery to the site.
 3. Receive and unload products at the site; jointly with the City, inspect for completeness or damage.
 4. Handle, store, install and finish products.
 5. Repair or replace damaged items.

1.05 WORK SEQUENCE

The following work sequence reflects the phasing proposed in the traffic control plans in the construction documents. If the Contractor chooses a different method of traffic control plans during the construction, he/she shall be responsible for preparing and submitting an alternate set of plans (on Mylar, signed and sealed by a licensed engineer in the State of Texas) to the Plan Review Section for approval ten working days prior to implementation.

- A. Construct the Work in Phases during the construction period, coordinate construction schedule, and operations with the City:
1. Phase I: This phase covers both sides of Wycliffe Drive between the I-10 frontage road and Chatterton Drive. Some portions of this phase may run concurrently with other portions of the phases. The following tasks may be installed concurrently with other tasks in this phase:
 - a. Install temporary asphalt, 4' wide from edge of existing asphalt on the east side of Wycliffe
 - b. Install channelizing devices and signs
 - c. Implement all SWPPP devices and procedures
 - d. Install tree protection devices and procedures
 - e. Coordinate with CenterPoint for all utility relocations
 - f. Remove and dispose of all pavements and utilities
 - g. Clear and grub through phase limits
 - h. Construct new sanitary sewer system
 - i. Construct new waterline
 - j. Construct new storm sewer system
 - k. Install street lighting conduit
 - l. Construct new pavement, driveways, sidewalk, and ramps
 - m. Install signing and pavement markings
 - n. Seed, sod, and restore site
 2. Phase II: This phase encompasses both segments of Mayfield Road, Buescher Drive, Ivyridge Road, and Hazelhurst Drive. Some portions of this phase may run concurrently with other portions of the phases. The following tasks may be installed concurrently with other tasks in this phase.
 - a. Install channelizing devices and signs
 - b. Implement all SWPPP devices and procedures
 - c. Install tree protection devices and procedures
 - d. Coordinate with CenterPoint for all utility relocations
 - e. Remove and dispose of all pavements and utilities

- f. Clear and grub through phase limits
 - g. Construct new sanitary sewer system
 - h. Construct new waterline
 - i. Construct new storm sewer system
 - j. Install street lighting conduit
 - k. Construct new pavement, driveways, sidewalk, and ramps
 - l. Install signing and pavement markings
 - m. Seed, sod, and restore site
3. Phase III: This phase consists of Shadow Wood Drive and Buescher Drive/Britt Way Street/Skyview Street. Some portions of this phase may run concurrently with other portions of the phases. The following tasks may be installed concurrently with other tasks in this phase.
- a. Install channelizing devices and signs
 - b. Implement all SWPPP devices and procedures
 - c. Install tree protection devices and procedures
 - d. Coordinate with CenterPoint for all utility relocations
 - e. Remove and dispose of all pavements and utilities
 - f. Clear and grub through phase limits
 - g. Construct new sanitary sewer system
 - h. Construct new waterline
 - i. Construct new storm sewer system
 - j. Install street lighting conduit
 - k. Construct new pavement, driveways, sidewalk, and ramps
 - l. Install signing and pavement markings
 - m. Seed, sod, and restore site
4. Phase IV: This phase encompasses the north of Wycliffe Drive, from Sherwood Forest Street to the end of the project limits. Some portions of this phase may run concurrently with other portions of the phases. The following tasks may be installed concurrently with other tasks in this phase.
- a. Install channelizing devices and signs
 - b. Implement all SWPPP devices and procedures
 - c. Install tree protection devices and procedures
 - d. Coordinate with CenterPoint for all utility relocations
 - e. Remove and dispose of all pavements and utilities
 - f. Clear and grub through phase limits
 - g. Construct new sanitary sewer system
 - h. Construct new waterline
 - i. Construct new storm sewer system
 - j. Install street lighting conduit
 - k. Construct new pavement, driveways, sidewalk, and ramps
 - l. Install signing and pavement markings
 - m. Seed, sod, and restore site
5. Phase V: This phase is comprised of both sides of Wycliffe Drive, from Chatterton Drive to Sherwood Forest Street. Some portions of this phase may run concurrently with other portions of the phases. The

following tasks may be installed concurrently with other tasks in this phase.

- a. Install channelizing devices and signs
- b. Implement all SWPPP devices and procedures
- c. Install tree protection devices and procedures
- d. Coordinate with CenterPoint for all utility relocations
- e. Remove and dispose of all pavements and utilities
- f. Clear and grub through phase limits
- g. Construct new sanitary sewer system
- h. Construct new waterline
- i. Construct new storm sewer system
- j. Install street lighting conduit
- k. Construct new pavement, driveways, sidewalk, and ramps
- l. Install signing and pavement markings
- m. Seed, sod, and restore site

- B. Coordination of Work: Refer to Section 01312 - Coordination and Meetings.
1. Contractor shall coordinate with any other contractors of any trade or discipline working adjacent to the project site prior to and during construction.
 - a. It is anticipated that the storm sewer outfall at Chatterton Drive on the adjacent adjoining Wycliffe Drive Drainage and Paving Improvements Project (M-001010-0001-4) will not be completed until November 10, 2017. Contractor is advised to coordinate all work in the area with the contractor on the Wycliffe Drive Drainage Project before starting work at the manhole located on Chatterton at Station 135+54.13. The construction of the manhole on Chatterton may interfere with the contractor's operations on the drainage segment of this project. The contractor is advised to develop the project construction schedule to anticipate the work on Chatterton and bid accordingly. In the event that the anticipated completion date of the junction box on Chatterton is deviated and proven to impact the contractor's schedule, contractor shall notify the Construction Project Manager per Article 7-Changes in the work under Document 00700 General Conditions. In addition, the contractor is advised that it may be necessary to de-mobilize until such a time that work on the remaining portion of the project can be completed. If the demobilization period extends beyond six months, either party may exercise the right to terminate the contract in accordance with Article 14 of the General Conditions, 00700, "TERMINATION OR SUSPENSION OF THE CONTRACT" The contractor is invited to review all the information of the potential impact currently on file with the Engineer.
 - b. The segment of paving and utility work in NSR 456 associated with the outfall at Chatterton to the adjoining Wycliffe Drive Drainage and Paving Improvements Project (M-001010-0001-3) shall not begin until the Wycliffe Drive project's storm sewer and utility installations have been completed on Chatterton Drive and Sherwood Forest.

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2. Contractor shall contact and coordinate with AT&T Texas/SWBT and CenterPoint Energy (Utility Coordinating Committee) a minimum of 48 hours prior to construction to have underground lines field located.
 - a. The estimated duration to complete the relocation of the AT&T Texas/SWBT facilities is June 30, 2016 and subject to change pending any unforeseen issues in the design and construction process.
 - b. The estimated duration to complete the relocation of the CenterPoint Gas is July 2016 and subject to change pending any unforeseen issues in the design and construction process.
3. Contractor, on owner's behalf, shall obtain all construction permits required by the regulatory agencies having jurisdiction over the project construction.
4. Coordinate construction schedule and operation with City Project Manager, traffic management, maintenance division contractor, and private utilities.
5. Due to the scope of the project the contractor's proposed method, timing, and construction sequence on overall project is very important. Contractor shall submit suitable method and sequence of construction, as well as a list of major construction activities for review and approval by the Project Manager prior to construction.
 - a. The Contractor is advised to develop the project construction schedule to anticipate the work on Chatterton Drive and bid accordingly. In the event that the anticipated completion date of the manhole installation on Chatterton is deviated and proven to impact contractor's schedule, contractor shall notify the construction project manager per Article 7 – Changes in the Work under Document 00700 General Conditions.
6. Contractor's proposed sequence of work shall incorporate Traffic Control Plans and Traffic Control General Notes as shown in the construction drawings (Sheets 81-106 of 192).
7. The contractor is advised due to the coordination and scheduling with the adjoining Wycliffe Drive project that it may be necessary to demobilize until such a time that the work on the remaining portion of the project can be completed. The contractor is invited to review all information of potential impact currently on file with the Engineer.

1.06 CONTRACTOR USE OF PREMISES

- A. Comply with procedures for access to the site and Contractor's use of rights-of-way as specified in Section 01145 - Use of Premises.
- B. Construction Operations: Limited to the City's rights-of-way provided by the City and areas shown or described in the Contract documents.
- C. Utility Outages and Shutdown: Provide notification to City and private utility companies (when applicable) a minimum of 48 hours, excluding weekends and holidays, in advance of required utility shutdown. Coordinate all work as required.
- D. Work on proposed storm sewer, wastewater lines and water lines shall be done to grades, elevations and locations as shown on the drawings.

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- E. Prevent overstress of any structure, and any part or member of it, during construction. This applies to existing work and structures affected by operations. Check effect of operations in this regard, and provide temporary supports and connections required to assure safety and stability of both new and existing work and to prevent overstress of any part.
- F. Restore and sod all non-paved areas that are damaged during construction as per Specification 02922 Sodding. The sodding should be placed within the right-of-way in all areas that are not roadway, sidewalk, driveways, and ramps.
- G. Traffic Control: Traffic control plan responsive to Texas Manual on Uniform Traffic Control Devices (TMUTCD) and sealed by a Registered Professional Engineer is incorporated into the drawings. If traffic control will be implemented without modification to plans provided, submit letter confirming that decision. If traffic control will be modified from what is shown, submit traffic control plan in conformance with TMUTCD and sealed by a Registered Professional Engineer. Traffic control provided is based on the assumption there is no conflict with traffic control from separate projects within construction limits. Coordinate work to prevent traffic control conflicts or submit revised traffic control plans sealed by a Registered Professional Engineer and conformed to TMUTCD at no additional cost. Submit traffic control plan to Project Manager for approval.
- H. Private Utility Relocations: Pursuant to Section 40-395 of the City of Houston (City) Utility Relocation Ordinance Program (URO), the following private utilities were identified and scheduled for relocation within the scope of the project limits. Based upon the relocation schedules provided by the utility owners, the City anticipates these relocations to be completed by the dates listed below, and unless otherwise stated, clearance of these potential obstructions will be performed by their respective owners.
The following is a description of the private utilities identified for relocation within the project limits:

Utility Owner	Type of Facility	Approximate Location	Estimated Clearance Date	Anticipated Effect to Construction
Centerpoint Electric	Buried Street Light Cables	<u>WYCLIFFE</u> STA 7+00 to 9+27 STA 19+93 to 35+00 STA 35+56 to 93+63 <u>SHERWOOD FOREST</u> STA 159+83 <u>SHADOW WOOD</u> STA 140+16 to 144+91 STA 155+03 to 155+79 <u>CHATTERTON</u> STA 130+00 to 136+48 <u>MAYFIELD</u> STA 120+20 to 125+56 <u>BUESCHER</u>	February 2016	None Anticipated

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		STA 201+84 to 204+56 STA 206+24 to 207+70 <u>MAYFIELD</u> STA 210+58 to 213+58 STA 215+10 to 220+75 <u>IVYRIDGE</u> STA 10+57 to 13+56 STA 15+79 to 20+75 <u>HAZELHURST</u> STA 10+11 to 14+80 STA 17+49 to 20+45		
Centerpoint Gas	2" IP STL Gas Lines	<u>WYCLIFFE</u> STA 10+00 to STA 85+00, 15'-18' RT STA 10+00 to STA 85+00, 15'-18' RT STA 77+85 to STA 85+52, 19'-26' LT STA 16+39.72, 18' RT STA 20+89.82, 18' RT STA 35+45.37, 7.63' RT STA 35+45.40, 7' LT STA 65+49.82, 15.10' RT STA 73+20.02, 15.19' STA 82+99.85, 15' RT STA 83+65.97, 15' RT STA 83+57.80, 35.35' LT STA 83+91.98, 6.70' LT STA 83+95.48, 25.72' LT STA 85+24.22, 6.30' LT STA 85+24.30, 6.73' RT <u>MAYFIELD</u> STA 120+48 to STA 123+58, 26' LT STA 120+48.00, 7.50' LT STA 123+57.46, 8.00' LT <u>BUESCHER</u> STA 206+30 to STA 208+20, Across ROW STA 200+03, Across ROW BUE STA 206+35.85, 4.92' RT BUE STA 206+80.00, 15' LT <u>HAZELHURST</u> STA 16+70 to STA 20+05, 29' LT <u>SHADOW WOOD</u> STA 140+10 to STA 145+33, 17' to 21' RT STA 150+28 to STA 152+90, 16' to 18' RT STA 140+45 to STA 155+00, 15' LT STA 155+00, Across ROW STA 140+45.00, 10.00' RT STA 140+74.96, 15.00' LT	February 2016	None Anticipated

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		STA 145+50.07, 15.00' LT STA 151+20.05, 15.00' LT STA 152+77.50, 15.00' LT STA 151+52.15, 16.90' RT STA 153+84.15, 7.00' RT STA 153+84.12, 4.91' LT STA 154+24.48, 15.00' LT STA 154+99.52, 7.00' RT STA 154+99.75, 4.45' LT		
AT&T	Buried Cable	<u>WYCLIFFE</u> STA 35+02 STA 57+88 STA 219+87 STA 220+00 STA 11+00 to 19+65 STA 150+24 to 152+90 STA 152+90 to 155+00 STA 152+90 to 155+00 STA 155+00	July 2016	None Anticipated
AT&T	Aerial Cable	<u>WYCLIFFE</u> STA 93+60 STA 200+00	July 2016	None Anticipated

The relocation of these facilities is not anticipated to interfere with the Contractors operations, but the Contractor shall develop the project construction schedule and bid accordingly. In the event that the clearance dates are deviated and proven to impact contractor's schedule, Contractor shall notify the construction project manager per Article 7 – Changes in the Work under Document 00700 General Conditions. The Contractor is invited to review all information of potential obstructions currently on file with the Engineer.

1.07 STREET CUT ORDINANCE

- A. Excavations on or under pavement in the City's right-of-way must have a permit. Comply with City of Houston, Texas Ordinance No. 2000-1115, an ordinance amending Chapter 40 of the Code of Ordinances, Houston, Texas, relating to excavating in the Public right-of-way.
- B. Comply with the latest edition of street cut New Pavement Repair and Pavement Replacement details.
- C. Quantities are included for street cut pavement repair and replacement in applicable Specification sections for Unit Price contracts.
- D. Include payment for street cut pavement repair and replacement in lump sum bid for Stipulated Price contracts.

1.08 WARRANTY

- A. Comply with warranty requirements in accordance with Document 00700 - General Conditions.

1.09 ADDITIONAL CONDITIONS FOR SUBSTANTIAL COMPLETION

- A. In addition to requirements outlined in Document 00700 – General Conditions, for Contractor to be substantially complete with the Work and call for inspection by Project Manager to confirm, these conditions must be met or completed:
 1. All testing shall be completed and accepted by Project Manager.
 2. All safety related work including pavement stripping, signing and signalization and ADA ramps shall be completed.
 3. All safety-related systems and equipment shall be installed, accepted by manufacturer's representative and approved for use.
 4. All yards and sprinkler systems have to be restored or repaired to pre-construction conditions or better.
 5. Complete report of all pay items.
 6. Contractor shall contact and notify the Engineer/Construction Project Manager no later than thirty (30) days after completion of the project to complete Texas Department of Licensing and Regulation post construction inspection of pedestrian elements for Texas Accessibility Standards.
 7. "As-built mark-ups" of the construction drawings of all work performed within public rights-of-ways shall be provided to the Project Manager as part of the project close-out procedures.

1.10 GENERAL CONSTRUCTION NOTES

- A. Contractor shall give notice to all authorized inspectors, superintendents or persons in charge of private and public utilities or rights-of-way affected by his or her operations, prior to commencement of work.
- B. Contractor shall coordinate with any other contractors of any trade or discipline working adjacent to the project site prior to and during construction.
- C. Contractor shall be responsible for adequately protecting existing structures, utilities, trees, shrubs, fences and other adjoining facilities. Any damaged irrigation/sprinkler systems caused by the contractor during construction within the project limits shall be replaced as incidental to the contract/project cost. All damages caused by contractor shall be repaired or replaced at the contractor's expense.
- D. Contractor shall comply with OSHA Regulations and State of Texas laws concerning excavation, trenching and shoring as specified in City of Houston Ordinance No. 87-1457.
- E. Whenever possible, the contractor shall make an effort to locate auger pits away from existing concrete or asphalt pavement, sidewalks, fences, inlets, manholes, power poles, light poles, tree canopies, lawns, landscapes and existing structures. No auger pits are allowed within driveways, canopy of 6-

inch or larger trees or landscapes unless otherwise instructed by the City Engineer.

- F. Contractor shall notify/inform all local businesses, home owners, property owners, schools, banks (located within the project limits), Houston Fire Department, Houston/Harris County EMS services, and Houston Police Department two (2) weeks prior to the start of construction.
- G. Contractor shall contact and coordinate with CenterPoint Energy at 713.207.2222 at least eight weeks in advance when work is scheduled for construction to arrange for overhead lines that are in conflict with the construction activity/ equipment to be deactivated or removed.
- H. Adequate drainage shall be maintained by contractor at all times during construction. All construction run-offs shall comply with the 2006 Standard of "Storm Water Management Handbook for Construction Activities" as prepared by Harris County/ HCFCD and the City of Houston and with the Texas pollutant discharge elimination system requirements. Contractor shall be responsible for preventing debris from falling into the HCFCD ditches while doing any work.
- I. Contractor shall be responsible for removal of siltation in existing and proposed storm sewer systems that result from construction activities associated with this project.

1.11 EXISTING UTILITIES

- A. Underground utilities (public and private) exist in the vicinity of this project. While every effort has been made to show locations for existing utilities, they are approximate and other utilities may exist in the vicinity of this project which is not shown on these plans. The Consultant and the City do not warranty the accuracy and completeness of the existing utilities. The location and grades of existing utilities are either based on as-built drawings, Houston GIMS or survey information.
- B. Contractor shall field verify the location and elevation of all utilities prior to commencing construction or any excavation. Contractor shall field locate all unmetered fire lines, large water meters, and/or isolation valves before installing new water lines. No separate pay item is provided for this work. Contractor shall be responsible for any damage to the existing utilities and shall repair the damaged utilities to the existing condition or better with no additional cost.
- C. Profiles for existing private utilities and pipelines shown in the drawings are provided by the respective utility owners. These depths are approximate and not field verified. Contractor shall exercise caution while doing work in the vicinity.
- D. Public and private utility lines and customer service lines may exist that are not shown on the construction drawings. It shall be the contractor's responsibility to locate and protect the integrity of these lines. Hand excavation may be

required.

- E. All private utilities should be relocated by private utility contractor. The contractor shall coordinate with the proper utility company and request them to relocate or divert any conflicts with proposed construction during construction.
- F. A list of water meter count, including meter sizes and service addresses, is attached at the end of this document for contractor's information. (Attachment B)

1.12 CENTERPOINT ENERGY ELECTRICAL FACILITIES

- A. Location of CenterPoint Energy electrical facilities are approximate and have not been verified by actual field check.
- B. Contractor shall hand dig within 18 inches of CenterPoint underground electrical facilities.
- C. Overhead electric lines exist on and adjacent to the project site, which may be live during the construction period. Contractor shall facilitate his or her work so as not to interrupt services unless permitted by CenterPoint Energy.
- D. Contractor shall exercise caution when working in the vicinity of CenterPoint Energy electrical cable, underground wiring and overhead lines.
- E. When excavating within 5 feet and beneath a depth of 3 feet below existing grade of a utility pole or anchor to which CenterPoint Energy facilities are attached, CenterPoint Energy will secure or brace these poles and anchor prior to excavation unless the pole requires relocation due to construction. The cost of CenterPoint Energy's efforts is incidental. No separate pay item.

1.13 STREET CUT REQUIREMENTS AND PAVEMENT RESTORATION

- A. Contractor shall comply with rules, regulations and construction requirements as described in the street cut ordinance Chapter 40, Article V, Houston City Code – Excavation in public way and comply with amendments provided by Texas Ordinance No. 2006-0595.
- B. Contractor shall restore all street cut pavements to the same or better condition that existed prior to excavation. Contractor shall comply with street cut and restoration methods as detailed in the City of Houston Standard Details shown in Construction Documents
- C. Contractor shall obtain all required permits and signs prior to performing any methods of construction involving street excavation in existing pavements.
- D. Unless otherwise approved by the City, any pavement removal not shown on the plans shall be incidental to the cost of the associated proposed utility work.

1.14 GEOTECHNICAL INVESTIGATION AND ESA FOR SOIL CONDITIONS

- A. Based on the Environmental Site Assessment Phase I Report (Report No. 1130017801, dated March 5, 2014) prepared by Geotest Engineering, Inc., and the Geotechnical Investigation Report (Report No. 1140202901, dated March 2, 2015) prepared by Geotest Engineering, Inc., there are three (3) Recognized Environmental Conditions (RECs) within the limits of this project. An Environmental Site Assessment Phase II Report (Report No. 1130020101, dated March 2, 2015) was performed by Geotest Engineering, Inc. and specifies the areas identified as Potentially Petroleum Contaminated Areas (PPCA). Therefore, removal and disposal of the contaminated soil and ground water is necessary and included as a pay item per Specification 01270. The preparatory work and underground construction work will be performed in accordance with Section 02105 – Chemical Sampling and Analysis and Section 02120 – Off-Site Transportation and Disposal.
- B. Bidder(s) must entirely evaluate and take the soil conditions into account for successful implementation of the work as per the Geotechnical Report.
- C. The compact discs (CD) of the Geotechnical and ESA Reports are provided along with the bid documents.

1.15 STORM WATER POLLUTION PREVENTION PLAN

The Storm Water Pollution Prevention Plan for this project is governed by sections 01410, 01570, 01575 and the layouts provided in the construction drawings. Contractor shall comply with Storm Water Pollution Prevention Plan as detailed in the construction drawings and in this project manual. These plans are prepared per the Traffic Control plans phases and steps. There is no separate pay item or cash allowance for Storm Water Pollution Prevention Plan implementation and maintenance/clean up; the cost is incidental to unit price of filter fabric fence and inlet protection barriers.

1.16 ALTERNATE CONSTRUCTION METHODS

Alternate construction methods will be allowed in accordance with applicable details and specifications in Contract Documents at no additional cost to the City of Houston provided the City will receive substantial benefit from alternate construction method(s). Contractor accepts responsibility for all additional cost of geotechnical investigations and incidental items, including any redesign that may be necessary. Submit the following for review by City Engineer prior to commencement of any construction activity if such alternate construction methods are to be considered. All modifications as listed below must be signed and sealed by a licensed Professional Engineer registered in the State of Texas prior to submittal to the City Engineer.

1. Proposed construction method and detailed plan of approach.
2. Proposed traffic control plan.
3. Revisions to material specifications.

1.17 TREE PRESERVATION AND TREATMENT SPECIFICATIONS

- A. Contractor shall contact HPARD Urban Forestry Department at least 1-2 weeks prior to tree trimming, pruning, removal, etc.
- B. Contractor is responsible for obtaining all tree removal permits prior to any tree removals that are not included in the Tree Preservation and Tree Protection Plans, which are components of the construction documents for this project. The tree removal permit provided to the contractor by the City of Houston prior to construction will only be issued for the trees listed in the drawings.
- C. The tree preservation and treatment plan and related specifications are included in the construction drawings and this project manual.
- D. Contractor shall maintain trees during planting operations and for a period of 24 months after completion of planting/ construction (substantial completion).

PART 2 PRODUCTS - Not Used

PART 3 EXECUTION - Not Used

END OF SECTION