

Document 00911

NOTICE OF  
ADDENDUM NO. 1

Date of Addendum: 11/9/15

PROJECT NAME: Silber Paving and Drainage from IH-10 to Hartland

PROJECT NO: N-000812-0001-4

BID DATE: November 12, 2015 (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, 15<sup>th</sup> Floor  
Houston, Texas 77002  
Attn: Ivy Wang, P.E., CFM, Project Manager

TO: Prospective Bidders

The referenced Addendum forms a part of the Bidding Documents and will be incorporated into the Contract documents, as applicable.

Written questions regarding this Addendum may be submitted to the Project Manager following the procedures specified in Document 00200 – Instructions to Bidders. Immediately notify the City Engineer through the named Project Manager upon finding discrepancies or omissions in the Bid Documents.



DATED:

Ravi Kaleyatodi

*IW*  
*JK*

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

END OF DOCUMENT

Document 00910

ADDENDUM NO. 1

Date of Addendum: 11/9/15

PROJECT NAME: Silber Paving and Drainage from IH-10 to Hartland

PROJECT NO: WBS No. N-000812-0001-4

BID DATE: November 12, 2015 (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 Street  
Houston, Texas 77002  
Attn: Ivy Wang, Project Manager

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.

*This Addendum uses the change page method: remove and replace or add pages, or Drawing sheets, as directed in the change instructions below. Change bars ( | ) are provided in the outside margins of pages from the Project Manual to indicate where changes have been made; no change bars are provided in added Sections. Reissued Drawing Sheets show the Addendum number below the title block and changes in the Drawing are noted by a revision mark and enclosed in a revision cloud.*

ADDENDUM NO. 1

#### CHANGES TO PROJECT MANUAL

1. Document 00410B has removed Item 24 and updated Items 80 and 81
2. Document 01110 Section 1.02 C has been updated

CLARIFICATIONS

**Question 1:** Item 24-Landscape Irrigation. Where are the plans for the irrigation?

**Answer 1:** Landscape Irrigation Item 24 has been removed from the 00410B bid document.

**Question 2:** Item 44- Reinforced concrete pavement 6" thick, Item 46- High early strength reinforced concrete paving 6" thick, summary of work 1.02 C calls for 7" reinforced concrete pavement. What is the correct thickness?

**Answer 2:** 6" reinforced concrete pavement is the correct thickness. Has been updated in summary of work.

**Question 3:** Item 80- Extra Depth Type C Manhole greater than 8' (42" diameter and larger)(RCP), Item 81- (in PPCA). City spec separates manhole sizes 42" and smaller and 48" to 72". Please Clarify.

**Answer 3:** Both items shall be for Extra Depth Type C Manhole greater than 8' (48" to 72")(RCP). Item 81 will state the previous statement and include "within limits of PPCA". Item descriptions have been updated in the 00410B bid document.



END OF ADDENDUM NO. 1

DATED:

*Ravi Kaleyatodi*

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

*IW*  
*JK*

RK:JHK:IW:sdd

*Terry L. McDaniel*  
*11/06/2015*

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:**

\$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 Ref.	Base Unit Short Title	Unit of Measure	Estimated Quantity	Unit Price (this column controls)	Total in figures
<b>GENERAL PROJECT ITEMS</b>						
1	01502	Mobilization	LS	1	\$168,118.00 <sup>(1)</sup>	\$ 168,118.00 <sup>(1)</sup>
2	01555	Flagmen	LS	1	\$ 33,440.00 <sup>(2)</sup>	\$ 33,440.00 <sup>(2)</sup>
3	01555	Temporary Traffic Signals	LS	1	\$ 10,000.00 <sup>(2)</sup>	\$ 10,000.00 <sup>(2)</sup>
4	01555	Traffic control and regulation	LS	1	\$ 50,000.00 <sup>(2)</sup>	\$ 50,000.00 <sup>(2)</sup>
5	01555	Install Low Profile Concrete Barrier	LF	2,248		
6	01555	Relocate Low Profile Concrete Barrier	LF	2,491		
7	01555	Remove Low Profile Concrete Barrier	LF	2,248		
8	01562	Tree and Plant Protection	LS	1		
9	01570	Inlet Protection Barrier	LF	537		
10	01575	Install stabilized Construction Exit (includes removal)	EA	6		
11	02105	Preparatory work for sampling and analysis in Potentially Petroleum Contaminated Area (PPCA)	LS	1		
12	02120	Transportation and disposal of Class II Soils	CY	2,631		
13	02221	Remove/dispose storm sewer pipe 12-inch diameter	LF	21		
14	02221	Remove/dispose storm sewer pipe 18-inch diameter	LF	400		
15	02221	Remove/dispose storm sewer pipe 24-inch diameter	LF	943		
16	02221	Remove/dispose storm sewer pipe 36-inch diameter	LF	632		
17	02221	Remove/dispose manholes all sizes/depths	EA	20		
18	02221	Remove/dispose inlets all sizes/depth	EA	23		
19	00041/ 02221	Removal and disposal of 12-inch diameter (CI or AC waterline)	LF	1780		
20	02221	Remove Existing Pole Foundation	EA	4		
21	02233	Clearing and Grubbing	AC	0.22		
22	02260	Trench safety system for trench excavations	LF	6,596		
23	02260	Trench safety system for trench excavations within PPCA area	LF	2,780		
24						
25	02915	Tree Planting	EA	11		

Item No.	Spec Ref.	Base Unit Short Title	Unit of Measure	Estimated Quantity	Unit Price (this column controls)	Total in figures
26	02921	Hydromulch seeding	AC	0.090		
27	02922	Sodding	SY	4,506		
<b>TOTAL GENERAL PROJECT ITEMS</b>						<b>\$</b>
<b>STREET ITEMS</b>						
28	01554	Ground mounted sign and post assembly	EA	4		
29	01554	Remove and Replace Signs (including Metro Bus signs)	EA	9		
30	02221	Remove/Dispose Concrete driveway 6-in thick or more	SY	1,781		
31	02221	Remove/Dispose Conc Sidewalk 4-in thick or more	SY	1,567		
32	02221	Remove and dispose of reinforced concrete pavement with or without asphalt overlay, including base & subgrade (all depths)	SY	11,234		
33	02221	Remove and dispose of reinforced concrete pavement with or without asphalt overlay, including base & subgrade (all depths) within limits of PPCA	SY	4,353		
34	02315	Roadway Excavation with or without subgrade	CY	4,735		
35	02315	Roadway Excavation with or without subgrade within limits of PPCA	CY	2,631		
36	02336	Lime-for lime stabilized subgrade (DRY WEIGHT)	Ton	268		
37	02336	Lime stabilized subgrade, 6-inch (5% lime by dry weight)	SY	4,779		
38	02336	Lime stabilized subgrade, 8-inch (5% lime by dry weight)	SY	12,662		
39	02581	Conduit, 2-inch SCH 40 PVC	LF	1,530		
40	02581	Conduit, 2-inch SCH 80 PVC	LF	385		
41	02714	Flexible Base course for Temporary Driveways (RESIDENTIAL)	EA	17		
42	02714	Flexible Base course for Temporary Driveways (COMMERCIAL)	EA	23		
43	02741	Temporary asphalt concrete pavement for detour/roadway and shoulder	SY	394		
44	02751	Reinforced concrete pavement 6-inch thick	SY	3,746		
45	02751	Reinforced concrete pavement 10-inch thick	SY	11,092		
46	02751	High early strength concrete pavement, 6-inch thick (Shavelson street Intersections)	SY	320		
47	02751	High early strength concrete pavement, 10-inch thick (Driveway at Shavelson/Silber)	SY	349		
48	02752	Street pavement expansion joint with load transfer	LF	3,182		
49	02752	Horizontal Dowel	EA	2,923		
50	02752 S	Saw Cutting	LF	310		
51	02754	Concrete driveways including excavation 6-inch thick (Residential/Shavelson)	SF	8,973		
52	02754	Concrete driveways including excavation 7-inch thick (Commercial)	SF	13,989		
53	02762	Blast cleaning pavement markers 24-inch wide	LF	108		
54	02762	Removal of raised pavement markers	LS	1		

Item No.	Spec Ref.	Base Unit Short Title	Unit of Measure	Estimated Quantity	Unit Price (this column controls)	Total in figures
55	02764	4" Temporary White Traffic Buttons (Non-Reflectorized) Raised Pavement Markers	EA	1,602		
56	02764	4" Temporary Yellow Traffic Buttons (Non-Reflectorized) Raised Pavement Markers @ 1' C-C	EA	9,647		
57	02764	4" Temporary 1-way Reflectorized White Raised Pavement Markers (Type I-C)	EA	158		
58	02764	4" Temporary 2-way Reflectorized Yellow Raised Pavement Markers (Type II A-A)	EA	330		
59	02764	Raised Pav Marker Ty II Two face Reflective (C-R)	EA	206		
60	02764	Raised Pav Marker Ty II Two face Reflective (Y/Y)	EA	28		
61	02765	Temporary and removable reflectorized pavement marking, Class I - 24-inch wide (white)	LF	100		
62	02767	Thermoplastic Pavement Marking 4-inch wide	LF	1720		
63	02767	Thermoplastic Pavement Marking 6-inch wide	LF	575		
64	02767	Thermoplastic Pavement Marking 12-inch wide	LF	400		
65	02767	Thermoplastic Pavement Marking 24-inch wide	LF	207		
66	02767	Thermoplastic Pavement Marking WHITE CURB	LF	74		
67	02767	Thermoplastic Pavement Marking YELLOW CURB	LF	1700		
68	02767	Thermoplastic Pavement Marking symbol ARROW	EA	9		
69	02767	Thermoplastic Pavement Marking Elongated Word ONLY	EA	2		
70	02771	Paving Header	LF	260		
71	02771	6-inch concrete curb monolithic	LF	7,810		
72	02772	6-inch concrete medians or directional islands	SY	73		
73	02775	Sidewalk 4-1/2" thick	SF	13,662		
74	02775	Truncated Domes	EA	59		
75	02775	Wheelchair ramps and sidewalks, complete in place	SF	1,678		
76	13501	Speed Cushions	EA	12		
<b>TOTAL STREET ITEMS</b>						<b>\$</b>
<b>STORM WATER ITEMS</b>						
77	02081/ 02082/ 02087	Type C manhole for 42-inch and smaller diameter sewers (RCP)	EA	6		
78	02081/ 02082/ 02087	Type C manhole for 42-inch and smaller diameter sewers (RCP) within limits of PPCA	EA	6		
79	02081/ 02082/ 02087	Extra depth of Type C manhole greater than 8 feet (42-inch diameter and smaller) (RCP)	VF	21		
80	02081/ 02082/ 02087	Extra depth of Type C manhole greater than 8 feet (48-inch to 72-inch) (RCP)	VF	64		

Item No.	Spec Ref.	Base Unit Short Title	Unit of Measure	Estimated Quantity	Unit Price (this column controls)	Total in figures
81	02081/ 02082/ 02087	Extra depth of Type C manhole greater than 8 feet (48-inch to 72-inch) (RCP) within limits of PPCA	VF	33		
82	02081/ 02082/ 02087	Type C manhole for 48-inch to 72-inch diameter sewers (RCP)	EA	5		
83	02081/ 02082/ 02087	Type C manhole for 48-inch to 72-inch diameter sewers (RCP) within limits of PPCA	EA	2		
84	02086	Adjust storm and sanitary manholes to grade	EA	14		
85	02086	Rebuild Top of existing Inlet	EA	1		
86	02086	Rebuild Top of existing Manhole (including rack)	EA	3		
87	02222	Cut & plug 36-inch storm sewer (conc)	EA	1		
88	02631	24-inch diameter RCP storm sewer by open cut (All depths)	LF	237		
89	02631	24-inch diameter RCP storm sewer by open cut (All depths) within limits of PPCA	LF	26		
90	02631	36-inch diameter RCP storm sewer by open cut (All depths)	LF	457		
91	02631	36-inch diameter RCP storm sewer by open cut (All depths) within limits of PPCA	LF	67		
92	02631	54-inch diameter RCP storm sewer by open cut (All depths)	LF	188		
93	02631	54-inch diameter RCP storm sewer by open cut (All depths) within limits of PPCA	LF	65		
94	02631	48-inch diameter RCP storm sewer by open cut (All depths)	LF	2298		
95	02631	48-inch diameter RCP storm sewer by open cut (All depths) within limits of PPCA	LF	31		
96	02631	60-inch diameter RCP storm sewer by open cut (All depths)	LF	185		
97	02631	60-inch diameter RCP storm sewer by open cut (All depths) within limits of PPCA	LF	627		
98	02631	4' x 2' RCB storm sewer by open cut (All depths) within limits of PPCA	LF	180		
99	02631	48" diameter tie-in to 10'x10' RCB outfall	EA	1		
100	02633	18-inch diameter storm sewer lead	LF	30		
101	02633	24-inch diameter storm sewer lead	LF	319		
102	02633	24-inch diameter storm sewer lead within limits of PPCA	LF	103		
103	02633/ PER DWG	Storm sewer junction box with lid or grate top STA 26+43 (W4E) within limits of PPCA	EA	1		
104	02633/ PER DWG	Storm sewer junction box with lid or grate top STA 26+43 (W4W) within limits of PPCA	EA	1		
105	02633/ PER DWG	Storm sewer junction box with lid or grate top STA 32+29 (W6W) within limits of PPCA	EA	1		
106	02633/ PER DWG	Storm sewer junction box with lid or grate top STA 32+28 (W6E) within limits of PPCA	EA	1		

Item No.	Spec Ref.	Base Unit Short Title	Unit of Measure	Estimated Quantity	Unit Price (this column controls)	Total in figures
107	PER DWG	Concrete collar, complete in place (for connecting existing and proposed 24" storm pipes)	EA	7		
108	02633	Type A Grate Inlet	EA	1		
109	TX 465-6175	Type C Inlet	EA	11		
110	TX 465-6175	Type C Inlet within limits of PPCA	EA	2		
111	02633	Type C-1 inlet	EA	3		
112	02632/ 02633	Type BB inlet	EA	5		
<b>TOTAL STORM WATER ITEMS</b>						<b>\$</b>
<b>WATER ITEMS</b>						
113	02086/ 02526	Adjust existing water valve or meter box to new grade, replace all damaged or missing parts	EA	20		
114	02086	Adjust existing water manhole cover to new grade	EA	4		
115	02513	2-inch diameter STD connection with valve	EA	1		
116	02513	8-inch diameter wet connection	EA	3		
117	02513	12-inch diameter wet connection	EA	2		
118	02516	Cut, plug, and abandon existing 2-inch diameter water line	EA	1		
119	02516	Cut, plug, and abandon existing 6-inch diameter water line	EA	1		
120	02516	Cut, plug, and abandon existing 8-inch diameter water line	EA	2		
121	02516	Cut, plug, and abandon existing 12-inch diameter water line	EA	3		
122	02511	2-inch diameter water line by open-cut	LF	10		
123	02511	8-inch diameter water line by open-cut	LF	364		
124	02511	8-inch diameter D.I. water line w/restrained joints by open-cut	LF	77		
125	02511	8-inch diameter D.I. water line w/restrained joints by open-cut in PPCA	LF	236		
126	02511	12-inch diameter water line by open-cut	LF	948		
127	02511	12-inch diameter D.I. water line w/restrained joints by open-cut	LF	163		
128	02511	12-inch diameter D.I. water line w/restrained joints by open-cut in PPCA	LF	805		
129	02525	8-inch by 8-inch tapping sleeves and valve	EA	1		
130	02525	12-inch by 12-inch tapping sleeves and valve	EA	1		
131	02512	5/8-inch to 1-inch diameter water taps and copper service line with meter box, short side	EA	5		
132	02512	5/8-inch to 1-inch diameter water taps and copper service line with meter box, long side	EA	7		
133	02512	1-1/2-inch to 2-inch diameter water taps and copper service line with meter box, short side	EA	2		
134	02512	1-1/2-inch to 2-inch diameter water taps and copper service line with meter box, extra long side	EA	6		

Item No.	Spec Ref.	Base Unit Short Title	Unit of Measure	Estimated Quantity	Unit Price (this column controls)	Total in figures
135	02520	Fire hydrant assembly, all depths, including 6-inch diameter gate valve and box	EA	6		
136	02520	6-inch diameter fire hydrant branch by open-cut	LF	38		
137	02520	Remove and salvage existing fire hydrant	EA	4		
<b>TOTAL WATER ITEMS</b>						\$
<b>WASTE WATER ITEMS</b>						
138	02221	Remove and dispose 6-inch diameter sanitary sewer	LF	130		
139	02221	Remove and dispose 8-inch diameter sanitary sewer	LF	134		
140	02221	Remove and dispose 10-inch diameter sanitary sewer	LF	2,126		
141	02534	6-inch diameter sanitary sewer, open-cut	LF	106		
142	02531	8-inch diameter sanitary sewer, open-cut	LF	137		
143	02531	10-inch diameter sanitary sewer, open-cut	LF	49		
144	02531	15-inch diameter sanitary sewer, open-cut	LF	1,377		
145	02531	15-inch diameter DI sanitary sewer w/ restrained joints, open-cut in PPCA	LF	700		
146	02081/ 02082/ 02087	Extra depth, 4-foot diameter precast concrete manhole	VF	23		
147	02082	4-foot diameter precast concrete manhole	EA	8		
148	02534	Install cleanout	EA	1		
149	02534	Service stub or reconnections including construction of stack on sanitary sewer	EA	1		
150	02082	8" sanitary sewer Drop Pipe	EA	2		
<b>TOTAL WASTE WATER ITEMS</b>						\$
<b>TRAFFIC SIGNAL ITEMS</b>						
151	02582	4-Inch Pole all style with foundation	EA	4		
152	02582/ 02583/ 02893	20-feet Mast arm Pole Assembly with foundation	EA	1		
153	02582/ 02583/ 02893	25-feet Mast arm Pole Assembly with foundation	EA	1		
154	02582/ 02583/ 02893	30-feet Mast arm Pole Assembly with foundation	EA	1		
155	02582/ 02583/ 02893	35-feet Mast arm Pole Assembly with foundation	EA	1		
156	02893	Sign Left Turn Yield on Flashing Yellow Arrow R10-17T	EA	2		
157	02893	Sign No Left Turn (symbolic) R3-2	EA	1		
158	02893	Sign No U-Turn (symbolic) R3-4	EA	1		
159	02893	Sign Right Turn Only (symbolic) R3-5R	EA	1		
160	02893	Sign R3-8SP	EA	1		
161	02893	Electrical Service Pole Assembly-70AMP(Square D breakers Included)	EA	1		
162	02893	Remove and Salvage Existing Traffic Signal Equipment	EA	1		
163	02893	Overhead Street Name Signs	EA	1		

Item No.	Spec Ref.	Base Unit Short Title	Unit of Measure	Estimated Quantity	Unit Price (this column controls)	Total in figures
164	02893-10C	Controller Cabinet Foundation With Apron	EA	1		
165	16710	Type A Pull Box with Gravel and Ground Rod	EA	11		
166	16711	Conduit 2-Inch Sch 80 PVC Trench	LF	820		
167	16711	Conduit 4-Inch Sch 80 PVC Bore	LF	210		
168	16715	3-Section Vehicle Signal Head Assembly	EA	7		
169	16715	4-Section Vehicle Signal Head Assembly	EA	3		
170	16716	Pedestrian Push Button Assembly, Left, Right or Both Arrows	EA	8		
171	16719	Pedestrian Push Button Head Assembly,(Symbolic) Countdown	EA	8		
172	16720	2/C#14 Shielded Cable	LF	4190		
173	16720	3/C#14AWG Solid Cable	LF	980		
174	16720	5/C#14AWG Solid Cable	LF	1010		
175	16720	7/C#14AWG Solid Cable	LF	1271		
176	16720	#4 THHN Service Wire	LF	100		
177	16720	#8 AWG Bare Solid Wire	LF	1020		
178	16724	Emergency Vehicle Preemption System	EA	1		
179	16727	Loop Detector Sawcut With Loop Wire	LF	325		
180	16727	Preformed Loop Detector	LF	1085		
181	16730	ITS Controller Cabinet Assembly( Model 340)( Type 2070L)	EA	1		
182	16732	Uninterruptible Power Supply	EA	1		
183	16733	Field Hardened Ethernet Switch	EA	1		
184	16734	Wimax Cat5E 24 AWG	LF	150		
185	16734	WiMax Installation	EA	1		
186	16785	GPS Serial Communication Module	EA	1		
187	16750	Accessble Pedestian Push Button System(Cental Control Unit, Eight Push Button Station )	EA	1		
<b>TOTAL TRAFFIC SIGNAL ITEMS</b>						<b>\$</b>
<b>TOTAL BASE UNIT PRICES</b>						<b>\$</b>

**C. EXTRA UNIT PRICE TABLE**

EXTRA UNIT PRICE TABLE						
Item No.	Spec Ref.	Extra Unit Short Title	Unit of Measure	Estimated Quantity	Unit Price (this column controls)	Total in figures
188	01578	Ground water control for open-cut construction	LF	5800	\$ 5.00 <sup>(2)</sup>	\$ 29,000.00 <sup>(2)</sup>
189	02105	Extra PPCA handling	LS	1	\$ 10,000.00 <sup>(2)</sup>	\$ 10,000.00 <sup>(2)</sup>
190	02120	Extra placement of Backfill material in PPCA	CY	100	\$ 20.00 <sup>(2)</sup>	\$ 2,000.00 <sup>(2)</sup>
191	02534	Sanitary sewer service stub reconnection with stack	EA	5	\$ 600.00 <sup>(2)</sup>	\$ 3,000.00 <sup>(2)</sup>
192	02534	Sanitary sewer service stub reconnection without stack	EA	5	\$ 400.00 <sup>(2)</sup>	\$ 2,000.00 <sup>(2)</sup>
193	02526	Relocate existing water valve or meter box to new grade, replace all damaged or missing parts	EA	5	\$ 1,560.00 <sup>(2)</sup>	\$ 7,800.00 <sup>(2)</sup>
194	02714	Flexible Base course for Temporary Driveways (CUSTOM)	EA	3	\$ 600.00 <sup>(2)</sup>	\$ 1,800.00 <sup>(2)</sup>
<b>TOTAL EXTRA UNIT PRICE</b>						<b>\$</b>

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**D. CASH ALLOWANCE TABLE**

<b>CASH ALLOWANCE TABLE</b>			
<b>Item No.</b>	<b>Spec Ref.</b>	<b>Cash Allowance Short Title</b>	<b>Cash Allowance in figures (1)</b>
195	01110	Street Light Reinstallation	\$ 4,000.00 <sup>(1)</sup>
196	01110	Street Cut Permit Fee	\$ 1,000.00 <sup>(1)</sup>
197	01110	CNP Service Drop	\$ 5,000.00 <sup>(1)</sup>
<b>TOTAL CASH ALLOWANCE</b>			<b>\$ 10,000.00</b>

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**E. ALTERNATES TABLE**

ALTERNATES TABLE						
Item No.	Spec Ref.	Alternate Short Title	Unit of Measure	Estimated Quantity	Unit Price (this column controls)	Total Price for Alternate in figures
N/A		N/A				
<b>TOTAL ALTERNATES</b>						<b>\$</b>

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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. The purpose of the project is to construct a segment of Silber Rd, complete with utility, pavement and signal improvements that update the existing conditions. Existing conditions will be updated by upgrading the existing storm sewer, waterline, and sanitary sewer. In addition, the pavement will be replaced and a new traffic signal at Shavelson St and Silber Rd will be installed. The benefitted area of the project includes approximately 12 acres of land in the Spring Branch/Afton Village area.
- B. Work of the Contract is for construction of storm sewer trunk line starting on Silber Rd at IH-10 and continues north to approximately 650 feet north of Hartland St, then Shavelson St from Silber Rd to approximately 650 feet west of Afton St. The project also includes replacing pavement, sidewalks, driveways, and waterline and sanitary sewer.
- C. Remove existing concrete and asphalt pavement along Shavelson St and Silber Rd. The construction of the proposed pavement for Silber Rd consists of a four-lane road with 10" reinforced concrete pavement and 8" lime stabilized subgrade with 5% lime by weight. Proposed pavement for Shavelson St consists of one, 13.5 foot lane with 6" reinforced concrete pavement and 6" lime stabilized subgrade with 5% lime by weight. No separate payment shall be made for the saw cutting of pavement, curbs, sidewalks, ramps, and driveways. It is considered to be incidental to removal and disposal of existing pavement, curbs, sidewalks, ramps, and driveways.
- D. The proposed storm sewer system consists of approximately 30 LF of 18-inch storm sewer inlet lead, 685 LF of 24-inch storm sewer including inlet leads, 524 LF of 36-inch storm sewer, 2329 LF of 48-inch storm sewer, 253 LF of 54-inch storm sewer, and 812 LF of 60-inch storm sewer. The proposed storm sewer also includes approximately 240 LF of 4-foot by 2-foot reinforced concrete storm boxes. All storm sewers are to be constructed by open-cut methods. Proposed storm sewer appurtenances include manholes, Type "A" grate inlet, Type "B-B" inlets, Type "C" inlets, and Type "C-1" curb inlets and junction boxes. Bedding for concrete boxes will be in accordance with COH detail 02317-06.
- E. Remove existing storm sewer inlets, manholes, and pipes as shown on the drawings.
- F. Various private utilities exist within the construction area and must be supported and protected by the Contractor during construction. Permanent adjustment or relocations of private utilities will be made by the respective utility companies. Contractor shall be responsible for coordinating with private utility companies during construction.
- G. Construct proposed 2", 8" and 12" diameter waterlines, valves, and accompanying appurtenances. Remove and dispose abandoned waterlines in conflict with proposed construction. The Contractor shall notify the City of all waterline service interruptions 2

- weeks in advance. Contractor shall take cautionary measures when handling water lines within PPCA areas.
- H. Remove, salvage, and deliver to the City's water maintenance department's warehouse various waterline fire hydrants, as called for by the plans. Water meter counts along Silber Rd and Shavelson St were accounted for. The counts are attached at the end of this section.
  - I. Construct proposed 6", 8", 10", and 15" diameter sanitary sewer lines and accompanying appurtenances. Remove and dispose abandoned sanitary sewer lines in conflict with proposed construction. The Contractor shall notify the City of all sanitary sewer service interruptions 2 weeks in advance. Contractor shall take cautionary measures when handling sanitary sewer lines within PPCA areas. Working within TxDOT right-of-way requires a permit through the TxDOT's permit office.
  - J. If contractor reveals any evidence of human remains during demolition or construction, Contractor is to notify COH Construction Project Manager and temporarily stop work in the area.
  - K. Use high-early strength concrete in all areas requiring limited road closures (as shown on plans).
  - L. Contractor shall notify the impacted property owners a minimum of 72 hours in advance of construction to coordinate removal and/or replacement of landscaping items, waterlines, driveways, etc. No separate payment will be made for this work.
  - M. Maintain access to residences and businesses along construction route at all times during construction.
  - N. Contractor to protect existing fences from damage or disturbance. Replacement fences (all types) damaged or disturbed during construction other than those identified in the plans are the responsibility of the Contractor.
  - O. Remove existing driveways to the rights-of-way within the construction area and replace them with new concrete driveways (except as noted on the plans).
  - P. Traffic control operations will be limited to a maximum of 800 consecutive feet of active construction sections and no consecutive cross-street or driveway closures will be allowed.
  - Q. Install and maintain erosion sediment controls as part of the Storm Water Pollution Prevention Plans during construction.
  - R. Install new signing and striping materials along proposed pavement as shown in the Pavement Marking Layout plans.
  - S. Remove existing sidewalks and ramps. Construct new sidewalks and curb cuts shown in the drawings that are compliant with the latest American with Disabilities Act (ADA) and the Texas Accessibility Standards (TAS). City of Houston standard drawings are to be used as general guides only. Where they differ from TAS guidelines on slope, clearance, and spacing, the TAS guidelines are to be followed in construction. TDLR EABJ Number B5818003 are pending upon Contractor obtaining final ADA inspection from Teresa Darr with Accessibility Check or some other City of Houston/TDLR approved organization.
  - T. Trees shall be protected and preserved per the Tree Plan. Tree protection includes

pruning of branches and roots. There are 11 trees to be planted within the median along Silber Rd. Tree planting includes providing soil backfill and top soil. Watering shall be considered incidental to tree planting.

- U. There are four existing METRO bus stops on Silber Rd within the construction limits. Contractor shall coordinate with Carl Taylor at METRO at 713-822-7343 or carl.taylor@ridemetro.org, prior to beginning construction.
- V. Signal work for the intersection of Shavelson St and Silber Rd includes removing existing traffic signal equipment (including foundations), and installing new traffic signal equipment as shown in the plans. Temporary signals will be required during construction per Traffic Control plans. Street name signs by Spring Branch District shall be removed and replaced by contractor.
- W. Contractor to remove existing Spring Branch District Monument under 'Clearing and grubbing' bid item. Contractor shall coordinate with Shawn Greenan at ESD Sign Services to determine a location to deliver the sign structure. Sign structure to be reinstalled by Spring Branch Management District.

1.03 CASH ALLOWANCES

- A. Include the following specific Cash Allowances in Contract Price under provision of General Conditions Paragraph 3.11:
  - 1. Street Light Pole Reinstallation
  - 2. Centerpoint Service Drop
  - 3. Street Cut Permit Fee

1.04 ALTERNATES

- A. From the following list of Alternates, amount included in Contract Price for only those Alternates accepted by the City and listed in the fully executed Document 00520 – Agreement, Paragraph 3.2: NONE

1.05 CITY-FURNISHED PRODUCTS

- A. Items Furnished by the City for Installation and final connection by Contractor: NONE
- B. Contractor's Responsibilities:
  - 1. Arrange and pay for Product delivery to the site.
  - 2. Receive and unload Products at the site; jointly with the City, inspect for completeness or damage.
  - 3. Handle, store, Install, and finish Products.
  - 4. Repair or replace damaged items.

1.06 WORK SEQUENCE

- A. Construct the Work in Phases during the construction period, as shown on the Traffic Control and Detour Plans and listed below. Coordinate construction schedule and operations with the City of Houston. The following phases are recommended:

- a. Shavelson Phase 1
  1. Install advanced warning signs, traffic control devices, and storm water pollution devices before construction begins.
  2. Remove existing speed humps along the project limits.
  3. Close westbound lane on Shavelson St from the start of the project to Coldstream St. Refer to traffic control plan sheets.
  4. Block entry of Shavelson St between Coldstream St and Silber Rd.
  5. Construct 24" leads, 18" RCP, concrete collar, inlets, manholes, and 48" RCP along Shavelson St. Tie 48" RCP to existing 10'x10' outfall that crosses Shavelson St approximately 650 ft. west of Afton St
  6. Construct proposed 8" water line, valves, and accompanying appurtenances along the north side of Shavelson St between Coldstream and Silber Rd.
  7. Provide temporary driveways to residents whose existing driveways are within the active construction area.
  8. Construct proposed concrete pavement, curbs, driveways, sidewalks, directional medians, and wheelchair ramps.
  9. Install pavement signing and striping along Shavelson St
- b. Shavelson Phase 1 Step 2
  1. Install speed cushions.
  2. Provide detour for Afton St and Coldstream St per detour plan sheets.
  3. Construct intersections along Shavelson St: Afton St and Coldstream St.
  4. Return Shavelson St west of Coldstream St to original traffic flow. Keep Shavelson St between Coldstream St and Silber Rd closed to all traffic.
- c. Shavelson Phase 1 Step 3
  1. Install advanced warning signs, traffic control devices, and storm water pollution devices on Silber Rd as shown in the plans.
  2. Install temporary signal per the Shavelson St Temporary Traffic Signal sheet.
  3. Close Silber Rd southbound outside lane. North of Hartland St, merge the outside southbound lane into the southbound inside lane.
  4. Shift southbound traffic onto the inside of the northbound lanes as shown on the plans.
  5. Merge the inside northbound lane into the outside northbound lane. Close Silber Rd northbound inside lane.
  6. Allow a forced left or right out of the driveway at the intersection of Shavelson and Silber Rd. Remove/bag the existing dual left signs.
  7. Construct 48" RCP. Construct cast-in-place junction box at Shavelson St and Silber Rd. Construct three 4'x2' reinforced concrete boxes. Install stub-outs as necessary for lateral connections. Cover storm sewer boxes at the end of this construction sequence.
  8. Construct 8" water line, valves, and accompanying appurtenances.
  9. Construct directional median at Shavelson St.

10. Construct temporary asphalt pavement within the construction area shown on the plans.
  11. Remove and place temporary asphalt pavement on a portion of the raised median on the south side of the Shavelson/Silber intersection as shown on the plans.
  12. Adjust advanced warning signs, traffic control devices, and storm water pollution prevention devices.
- d. Silber Rd Phase 1 Step 1
1. Adjust temporary traffic signal as shown in the temporary traffic signal plans.
  2. Open Shavelson St for traffic. Remove detour signs for Shavelson St.
  3. Close Silber Rd northbound lanes and shift all traffic to the southbound lanes.
  4. Close driveway lane at Silber Rd and Shavelson St. Force traffic to turn either right or left out of one single lane as shown on the traffic control plans.
  5. Construct the remaining linear feet of the three 4'x2' reinforced concrete boxes. Construct cast-in-place junction box. Construct 60" RCP ties to 4'x2' reinforced concrete box.
  6. Construct 8" water line, valves, and connections to 12" water line.
  7. Construct curbs, sidewalks, wheelchair ramps, and high early strength concrete pavement.
- e. Silber Rd Phase 1 Step 2
1. Adjust temporary traffic signal as shown in the temporary traffic signal plans.
  2. Adjust traffic control devices, advanced warning signs, and storm water pollution prevention devices as shown in plans.
  3. Close driveway at Shavelson St and Silber Rd to allow for only one exit lane that forces the cars to make either a left or right. There is no driveway entry access at this location. See traffic control plans.
  4. Construct 60" RCP. Install stub-outs as necessary.
  5. Construct 12" water line.
  6. Construct curbs, sidewalks, wheelchair ramps, and high early strength concrete pavement.
- f. Silber Rd Phase 1 Step 3
1. Install temporary asphalt pavement at the intersection of Silber Rd and IH-10 westbound frontage road as shown in plans.
  2. Install traffic control devices along the Silber Rd and IH-10 intersection as shown on the plans.
  3. Install temporary driveways to businesses on the east side of Silber Rd as necessary.
  4. Traffic control operations will be limited to a maximum of 800 consecutive feet of active construction sections and no consecutive cross-street or driveway closures will be allowed.
  5. Construct 4'x2' reinforced concrete boxes, 60" RCP, 36" RCP, 24" RCP,

- 24" RCP leads, junction boxes, manholes, and inlets along the east side of Silber Rd. Install stub-outs as necessary for lateral connections. Contractor not to have more than 800 LF under construction at a time unless directed by the engineer. Contractor not to have two consecutive driveways or streets closed at a time.
6. Construct proposed Silber northbound concrete pavement (IH-10 to north of Fire Station 38).
  7. Construct outside curb lines of Silber northbound lanes, sidewalks, ADA compliant ramps, and proposed driveways. Adjust manhole covers to grade as shown on the plans.
- g. Silber Rd Phase 2 Step 1
1. Adjust advanced warning signs, traffic control devices and storm water pollution control devices prior to the start of this phase as shown on the traffic control plans.
  2. Refer to Silber Rd phase 2 step 1 traffic control plans for typical traffic movement sections and device spacing.
  3. Adjust temporary traffic signal at Shavelson St.
  4. Install advanced warning signs and traffic control devices along IH-10 westbound frontage Rd as shown on the plans.
  5. Install temporary asphalt pavement at the intersection of Northampton way and Hartland Street prior to the start of this phase.
  6. Refer to phase 2 traffic control plans for typical traffic movement sections and device spacing.
  7. Construct proposed 6", 8" and 15" Sanitary Sewer and Sanitary manholes along Silber Rd southbound.
  8. Construct 12" water lines, 8" water lines, and accompanying appurtenances along Silber Rd southbound.
  9. Construct 54" RCP, 48" RCP, 24" RCP leads, inlets, and manholes.
  10. Construct proposed Silber southbound concrete pavement (IH-10 to north of Fire Station 38).
  11. Construct outside curb lines of Silber southbound lanes, sidewalks, ADA compliant ramps, and proposed driveways. Adjust manhole covers to grade as shown on the plans.
- h. Silber Rd Phase 2 Step 2
1. Adjust advanced warning signs, traffic control devices and storm water pollution devices prior to the start of this step.
  2. Refer to phase 2 step 2 traffic control plans for typical traffic movement sections and device spacing.
  3. Construct intersections on West side of Silber Rd: Shavelson St, Northampton Way, and Hartland St
  4. Detour Shavelson St traffic to Northampton Way. Detour Northampton Way traffic to Shavelson St. Detour Hartland St traffic to Northampton Way.
- i. Silber Rd Phase 3 Step 1
1. Adjust advanced warning signs, traffic control devices and storm water pollution control devices before this phase begins.

2. Refer to phase 3 traffic control plans for typical traffic movement sections and device spacing.
3. Shift northbound traffic to the outside lane of the newly constructed Silber Rd. Shift southbound traffic to the outside lane of the newly constructed Silber Rd.
4. Close the northbound and southbound inner lanes.
5. Construct proposed medians and median curbs along Silber Rd.
6. Construct median landscaping and tree planting.
7. Install pavement markings per pavement marking layout plan.
8. Clean up and inspect final construction items and prepare walk through punch list for acceptance by authority and City of Houston.

B. Coordination of the Work: Refer to Section 01312 - Coordination and Meetings.

1.07 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 a minimum of 48 hours notice to the City and private utility companies (when applicable), excluding weekends and holidays, in advance of required utility shutdown. Coordinate all work as required.
- D. 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 owner, 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 Gas	2" to 4" Gas Lines	Sta.18+00 to 37+00	March 2016	None
AT&T TEXAS/SWBT	Buried cables/MH /Aerial cables	Sta.18+00 to 37+00	March 2016	None
Centerpoint Electric	Power poles at various location near sidewalks	Sta.20+00 to 39+00	TBD	None

The relocation of these facilities is not anticipated to interfere with the Contractor's 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. For all AT&T manholes to be adjusted to grade, AT&T must be given a three week notice.

- E. Outstanding Special Provisions – Right-of-Way Acquisitions, Encroachments, Permits, Etc.: The City of Houston (City) has determined that the following pending conditions may apply to the completion of the proposed construction identified herein, and should be considered essential in completion of this project.
- a. Ongoing ROW Acquisitions
    - 1. Parcel AY15-076 is under condemnation and to be completed in April 2016.
    - 2. Parcel AY15-077 purchase was made and to be completed in April 2016.
    - 3. Parcel AY15-078 purchase was made and to be completed in October 2015.
  - b. Existing Encroachments
    - 1. Helfman Dodge Dealership encroachment is to be completed by January 2016.
    - 2. Property Address: 7720 Katy Freeway, Houston, TX 77024.
    - 3. Contact: Steve E. Wolfe at 713-533-6101.
- F. Other Contacts
- Spring Branch Management District  
Shawn Greenan  
713-644-8081
  - Fire Station #38  
Wael Taha  
832-675-1576  
[Wael.taha@houstontx.gov](mailto:Wael.taha@houstontx.gov)
  - Christ the King Presbyterian Church  
Jay Glanton  
713-400-6725  
[Jay.glanton@christtheking.com](mailto:Jay.glanton@christtheking.com)

1.08 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.

1.09 WARRANTY

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

1.10 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, the following conditions must be met or completed:
1. Contractor shall contact Project Manager to complete Texas Department of Licensing and Regulation post Construction Inspection of sidewalks and wheelchair ramps for Texas Accessibility Standards.
  2. All pay items complete report
  3. All safety related work, including pavement striping, traffic control devices, signing, and permanent signalization have been installed.
  4. All safety-related systems and equipment shall be installed, accepted by manufacturer's representative and approved for use
  5. All services and utilities operational.
  6. Traffic operational in all lanes, at all times, unless lane reductions are due to adjacent construction projects.
  7. Draft O&M manuals shall be delivered to Project Manager
  8. Finished Grading
  9. Construction and/or restoration of driveways, parking lots, sidewalks, street pavement and curbing.
  10. Site restoration of landscaping features such as seeding (hydromulch), sodding, and tree planting.
  11. Successful hydrostatic testing and disinfection
  12. Transfer Services.
- B. No additional condition described in Paragraph 1.10 may be included in Contractor's punch list.

PART 2 PRODUCTS - Not Used

PART 3 EXECUTION - Not Used

**SUPPLEMENTAL WORK COVERED SECTION H: WATER METER COUNTS**

#	SERVICE ADDRESS	TYPE USER	TYPE USER DESCRIPTION	ACCOUNT STATUS	METER SIZE (INCHES)	METER NUMBER	METER LOCATION	SPECIAL METER LOCATION	FIRE LINE
1	1000 SILBER RD	21	COMMERCIAL (1-UNIT)	WATER METER IS OUT	5/8	89604994	XX	14855 SHAVELSON 8WE SILBER	0
2	1000 SILBER RD	63	REMEDIAATION	WATER METER IS OUT	1 1/2	31903509	XX	SE COR PROPERTY	0
3	1000 1/2 SILBER RD	51	CITY OF HOUSTON (NO BILL)	WATER SERVICE IS TURNED ON	1	09655747	XX	115 NN KATY FWY IN ESPLANADE	0
4	1001 SILBER RD	72	LAWN METER	WATER METER IS OUT	1 1/2	09124996	XX	10WW COLDSTREAM 2NS SHAVELSON	0
5	1031 SILBER RD	21	COMMERCIAL (1-UNIT)	WATER SERVICE IS TURNED ON	1 1/2	10021395	XX	3345 SHAVELSON 2EW	6
6	1055 SILBER RD	21	COMMERCIAL (1-UNIT)	WATER METER IS OUT	5/8	PULLED	XX	SIDE 75N 98 W SILBER	0
7	1060 SILBER RD	21	COMMERCIAL (1-UNIT)	ACCOUNT IS KILLED OR INACTIVE	2		XX	40N SHAVELSON 8E	0
8	1060 SILBER RD	21	COMMERCIAL (1-UNIT)	ACCOUNT IS KILLED OR INACTIVE	5/8		XX	2WE	0
9	1073 SILBER RD	29	RESTAURANT/BAKERY	WATER METER IS OUT	5/8	31312871	XX	53W SILBER 15 N HAMPTON	0
10	1073 SILBER RD	21	COMMERCIAL (1-UNIT)	WATER SERVICE IS TURNED ON	1	09649879	XX	125 NORTH HAMPTON 123W SILBER	0
11	1073 #C SILBER RD	21	COMMERCIAL (1-UNIT)	WATER SERVICE IS TURNED ON	1	09307690	XX	12WW SILBER 12NS N HAMPTON	0
12	1102 SILBER RD	28	OFFICE BUILDING/BANK	WATER SERVICE IS TURNED ON	1 1/2	10251621	XX	24NN SHAVELSON 2WE	0
13	1102 SILBER RD	21	COMMERCIAL (1-UNIT)	ACCOUNT IS KILLED OR INACTIVE	2		XX	1E SILBER 605 N HARTLAND	0
14	1102 1/2 SILBER RD	72	LAWN METER	WATER SERVICE IS TURNED ON	1	09650653	XX	24NN SHAVELSON 2WE	0
15	1103 SILBER RD	36	GAS STATION/AUTO REPAIR	WATER SERVICE IS TURNED ON	2	00064883	XX	48WW 35 HAMPTON	0
16	1106 SILBER RD	25	STRIP SHOPPING CENTER	WATER SERVICE IS TURNED ON	2	10250822	XX	50SS NORTHAMPTON 14WE SILBER	0
17	1106 1/2 SILBER RD	72	LAWN METER	WATER SERVICE IS TURNED ON	1	09650175	XX	53SS NORTHAMPTON 14WE SILBER	0
18	1107 SILBER RD	21	COMMERCIAL (1-UNIT)	WATER SERVICE IS TURNED OFF	5/8	03265080	XX	11NS 100W SILBER NEAR FENCE	0
19	1108 SILBER RD	21	COMMERCIAL (1-UNIT)	ACCOUNT IS KILLED OR INACTIVE	2		XX	10 WE 182 NN HARTLAND	0
20	1109 SILBER RD	21	COMMERCIAL (1-UNIT)	WATER SERVICE IS TURNED OFF	1	09548517	XX	TP HARTLAND 105W SILBER 8W OF	0
21	6818 SHAVELSON	18	APARTMENTS	WATER SERVICE IS TURNED ON	2	05088640	XX	84E COLD STREAM 7N SHAVELSON FRONT	0
22	6815 SHAVELSON	18	APARTMENTS	WATER SERVICE IS TURNED ON	2	01022961	XX	10NS 147 W SILBER	0
23	6827 1/2 SHAVELSON	2	SENIOR CITIZEN	WATER SERVICE IS TURNED ON	5/8	03260359	XX	38 EE COLDSTREAM 7 NS SHAVELSO	0
24	6827 SHAVELSON	2	SENIOR CITIZEN	WATER SERVICE IS TURNED ON	5/8	03223474	XX	9NS FRT	0

END OF SECTION