

4600014579  
2019-0303

**FIRST AMENDMENT TO THE PROFESSIONAL ENGINEERING SERVICES  
AGREEMENT FOR DR15 SWAT 4A NORTHSIDE/NORTHLINE DRAINAGE AND  
PAVING IMPROVEMENTS BETWEEN THE CITY OF HOUSTON AND HR GREEN, INC.**

THE STATE OF TEXAS     §  
  §  
COUNTY OF HARRIS     §

THIS FIRST AMENDMENT TO THE PROFESSIONAL ENGINEERING SERVICES AGREEMENT FOR DR15 SWAT 4A NORTHSIDE/NORTHLINE DRAINAGE AND PAVING IMPROVEMENTS ("FIRST AMENDMENT") is made on the counter-signature date by and between the CITY OF HOUSTON, TEXAS (the "City"), a home-rule city of the state of Texas, and HR GREEN, INC. (the "Consultant"), a Texas corporation.

**RECITALS:**

1. Pursuant to Ordinance No. 2017-0843 (October 25, 2017), the City and the Consultant entered into a Professional Engineering Services Agreement for DR15 SWAT 4A Northside/Northline Drainage and Paving Improvements (the "Original Agreement").
2. The City and the Consultant now desire to amend the terms of the Original Agreement, and appropriate additional money for the Project.
3. **NOW THEREFORE**, the parties agree as follows:

**ARTICLE I.**

Section 3.4, "Limit of Appropriation", of Article 3, "Duties of City", of the Original Agreement is deleted in its entirety and replaced with the following:

- 3.4 Limit of Appropriation.** Engineer recognizes that under certain provisions of the Charter of the City of Houston, the City may not obligate itself by contract to an extent in excess of an amount appropriated by the City Council and further recognizes that only \$1,150,246.00 has been appropriated and budgeted by City Council to pay the Cost of Basic Services hereunder and that only \$283,754.00 has been appropriated and budgeted by the City

Council to pay the cost of Additional Services hereunder for a total amount of **\$1,434,000.00**.

- 3.4.1 In the event the appropriation for Basic Services is insufficient to compensate Engineer for Basic Services, Engineer shall suspend its Basic Services at such time as the total appropriation for Basic Services is expended, but shall resume such Basic Services, if and when authorized by the Director as provided elsewhere herein, upon transfer of funds by the Director or appropriation of additional funds by the City Council for Basic Services.
- 3.4.2 In the event the appropriation for Additional Services is insufficient to compensate Engineer for authorized Additional Services in accordance with the payment provisions of Article 3 hereof, Engineer shall suspend its Additional Services at such time as the total appropriation for Additional Services is expended, but shall resume such Additional Services, if and when authorized by the Director as provided elsewhere herein, upon transfer of funds by the Director or appropriation of additional funds by the City Council for Additional Services.
- 3.4.3 The Director may authorize the transfer of funds between Basic Services and Additional Services when necessary to continue services by issuing a Supplemental Notice to Proceed, provided that the transfer of funds does not exceed 25% of the Negotiated Lump Sum in the original Notice to Proceed and total funds authorized do not exceed the total amount appropriated by City Council.

## **ARTICLE II.**

Except as modified under this First Amendment, the Original Agreement will remain in full force and effect. In the event of a conflict between the Original Agreement, and this First Amendment, this First Amendment shall prevail.

**Signatures**

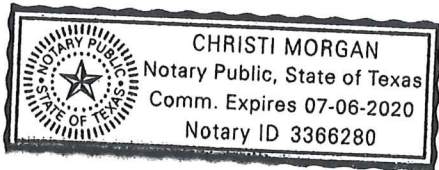
The Parties have executed this Agreement in multiple copies, each of which is an original.

**HR GREEN, INC.**

By: [Signature]  
Title: Vice President

ATTEST/SEAL (if a corporation)  
WITNESS (if not a corporation)

By: [Signature]  
Name: Christi Morgan  
Title: Project Coordinator



**CITY OF HOUSTON, TEXAS**

By: [Signature]  
Mayor 5219

ATTEST/SEAL:

[Signature]  
City Secretary **Assistant**

APPROVED:

[Signature]  
Director, ce Public Works and Engineering Department

COUNTERSIGNED BY:

[Signature]  
City Controller [Signature]

DATE COUNTERSIGNED:

5-10-19

APPROVED AS TO FORM:

[Signature]  
Assistant City Attorney  
L.D. No. 06617000 22002

**Project Synopsis: Amendment to Professional Engineering Services Contract Award**

Project Name: DR15 SWAT 4A Northside/Northline Drainage and Paving Improvements  
 WBS No.: M-420HUD-004A-3  
 CUI No.: 20PL07

**Project Summary**

In 2015, the City of Houston experienced two major flooding events. The Department of Housing and Urban Development's (HUD) Community Development Block Grant – Disaster Recovery (CDBG-DR) program has allocated funds to the City to aid in recovery of the 2015 flood events. This project represents how the City will use its CDBG-DR allocation to support recovery from the 2015 disasters in the most impacted and distressed areas and demonstrates the City's commitment to recover, rebuild, and focus on resilience for its citizens. The project will provide ditch regrading and re-establishment to areas served by recently improved trunk storm sewers. In addition, driveway culverts will be replaced and resized to allow for sufficient flow capacities and the existing street condition will be evaluated for improvement needs. The benefits of this project include improved storm water conveyance, improved mobility, and a reduced potential for structural flooding. The design duration will be established as the specific scope of the project is developed on each Phase under this contract.

The transfer of funds from Basic to Additional Services require more than 25% of the Negotiated Lump Sum in the original Notice to Proceed, which was appropriated by City Council. So, the re-allocation to PES Contract Award is requested for additional services; Topo Survey, Traffic Control Plans and Tree Protection Plan. An additional allocated amount of \$257,400.00 and a transfer of \$160,913.00 from Basic Services to Additional Services is now required to complete Additional Services.

The total requested allocation is \$257,400.00 to be allocated as follows: \$234,000.00 for contract services and \$23,400.00 for CIP Cost Recovery.

Total: \$257,400.00 from Fund No. 5000 – Federal Government – Grant Funded

Original (previous) allocation of \$1,392,000.00 from Fund No. 5000 – Federal Government

**Adopted CIP Deviation**

Does the current funding amount match the adopted CIP?    YES    \_\_\_\_\_    NO      X    
 If NO, please provide further explanation below:

- Funding deviation source:  
 The original PES Contract Award has already budgeted \$1,392,000.00 from 5000-Federal Government Grant Fund. This amendment needs additional budget of \$257,400.00 for Amendment Contract Award. No other project will be impacted.  
 The project uses 5000 Federal Government – Grant Funds.
- Category: Rehabilitation
- Sub-Category: Design

**Appropriation Break-Down by Council District**

Council District	% Appropriation per Council District	Appropriation Amount
H	100%	\$257,400.00
	<b>*Total</b>	<b>\$257,400.00</b>

\*To match total appropriation amount as shown on Page 1 of RCA (Amount and Source of Funding).

# Budget Approval Form

Requester: Kevin Hammond

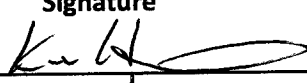
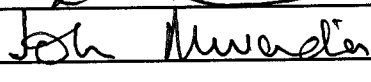

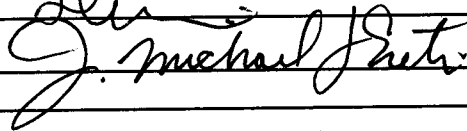
Project Name: Northside/Northline Drainage and Paving Improvements

Project WBS Number: M-420HUD-004A-3

Project Description: This project provides for design and construction of storm water drainage and paving improvements and necessary utilities to serve the Northside/Northline area.

	Adopted Fund Amounts	New Estimated Fund Amounts	Delta Amount
Street:		TB	\$0
Storm:		<del>\$257,000</del> <sup>\$257,400.00</sup>	<del>-\$257,000</del> <sup>-257,400.00</sup>
Water:			\$0
Waste Water:			\$0
Design:			
Real Estate:			
Total =	\$0	<del>\$257,000</del> <sup>\$257,400.00</sup>	<del>-\$257,000</del> <sup>-257,400.00</sup>

**Reason for Change or Request:**  
 This is HUD -Grant funded project, so there is no "Adopted Funds amounts". PESC RCA was drafted prior to the negotiation with the Consultants. So, LOE was estimated for \$1.2M as a placeholder from PWE. However, consultant needs more than \$1.2M to complete the project. This Budget Approval Form (BAF) is for RCA '20PLO7'; this appropriation amount of \$257K now includes funds for CIP Salary Recovery as requested by Contract Services.  
  
 Our LOA with HCDD shows total of \$2,542,496.00 is available for the Design cost.

	Name	Signature	Date
Project Manager:	Kevin Hammond		02-25-19
Supervisor:	John Mwandia		2-26-19
Assistant Director:	Juan Chavira		2/28/2019
Deputy Director:	Michael Ereti		03/06/19

Review Comments:

50374

PROJECT BUDGET  
SWAT 4A & 12A

DR15 - SWAT 4A	
<b>Construction Cost:</b>	
Estimated Construction Cost (ECC)	\$ 8,503,331
30% Contingency for Construction	\$ 2,550,999
<b>Subtotal Construction Costs</b>	<b>\$ 11,054,331</b>
<b>Other Costs:</b>	
Engineering Design Cost (EDC) (Includes Geotechnical, Environmental & Survey)	\$ 2,210,866 <sup>1</sup>
Engineering Design Management (Cost Recovery)	\$ 331,630 <sup>2</sup>
8% Construction Management, Inspection, and Administration (Cost Recovery)	\$ 884,346
5% Engineering Estimate Contingency	\$ 552,717
4% Testing Services	\$ 442,173
<b>Subtotal Other Costs</b>	<b>\$ 4,421,732</b>
<b>Total Project Cost</b>	<b>\$ 15,476,063</b>

$\{ = 2,542,496$

DR - SWAT12A	
<b>Construction Cost:</b>	
Estimated Construction Cost (ECC)	\$ 7,544,586
30% Contingency for Construction	\$ 2,263,376
<b>Subtotal Construction Costs</b>	<b>\$ 9,807,962</b>
<b>Other Costs:</b>	
Engineering Design Engineering Design Cost (EDC) (Includes Geotechnical, Environmental & Survey)	\$ 1,961,592 <sup>1</sup>
8% Construction Management, Inspection, and Administration (Cost Recovery)	\$ 784,637
5% Engineering Estimate Contingency	\$ 490,398
4% Testing Services	\$ 392,318
<b>Subtotal Other Costs</b>	<b>\$ 3,923,185</b>
<b>Total Project Cost</b>	<b>\$ 13,731,147</b>

<sup>1</sup> 20% of ECC + Contingency

<sup>2</sup> 15% of Engineering Fee Estimate

**DR15 SWAT 4A NORTHSIDE/NORTHLINE DRAINAGE AND PAVING IMPROVEMENTS**  
**Contract Amendment**

Date: Nov. 30, 2018

*Re-allocation amount*

Description	Prior Authorization	Fee amount for Re-allocation	Total Fee
Topographic Survey (Kuo)	\$273,423.60	\$111,232.44	\$384,656.04
Tree Protection Plan	\$0.00	\$17,280.00	\$17,280.00
Traffic Control Plan	\$0.00	\$32,400.00	\$32,400.00
<b>Total Additional Services Fee amount to be re-allocated from Basic</b>		<b>\$160,913.00</b>	

*03-08-18  
used for  
20PL07  
RCA*

*Additional authorization for EOR*

Inhouse Reproduction Services, mileage, etc. (Phase III)	\$ -	\$ 2,400.00	\$ 2,400.00
Remaining fund from #1.2M (see Budget Balance Summary Sheet)	-	-	-
Additional Budget for Phase III Services	\$ -	\$111,159.00	\$ 111,159.00
Additional Scope for the project (10% of \$1.2M)	\$ -	\$ 120,000.00	\$ 120,000.00
<b>Total Additional Budget to be Requested</b>			<b>\$ 233,559.00</b>

**\$40,731.56**

EOR requested for \$151,890

*used for  
20PL07  
RCA (\$234,000)*

## Request for Council Action Routing Form

**(RCA)SUBJECT:** First Amendment to Professional Engineering Services Contract between the City and HR Green, Inc., for DR15 SWAT 4A Northside/Northline Drainage and Paving Improvements.  
WBS No. M-420HUD-004A-3.

**(RCA)RECOMMENDATION:** Approve First Amendment to the Professional Engineering Services Contract with HR Green, Inc., transfer and allocate funds.

<b>LTS NO. 19392</b>		(Circle One) Motion Resolution <u>Ordinance</u>	<b>CUIC # 20PL07</b> Originator/Prime Author Kevin Hammond <i>KFH</i> Engineer (832) 395 2275
Routing Order: Signature Approval (Originator/Prime Author specified by Name)	Date/time Received	Date/time Transmitted	Comments
Deputy Assistant Director John Mwandia (832) 395-2388 <i>J Mwandia</i>	3/9/19	3/9/19	
Assistant Director Juan Chavira 832-395-2441 <i>J Chavira</i>	3/14/19	3/14/19	
Financial Analyst Mai Pham 832-395-2615 <i>Mai Pham</i>	3/15/19	3/28/19	
Deputy Director Michael Y. Ereti 832-395-2698 <i>M Y Ereti</i>	03/29/19	04/01/19	
Deputy Director Yvonne W. Forrest 832-395-2847	N/A	N/A	
Agenda Coordinator Ruth Gonzales 832-395-2458 <i>Ruth Gonzales</i>	4-2-19	4-2-19	
Chief Operating Officer Eric Dargan 832-395-2936 <i>Eric Dargan</i>	04-02-19	04-02-19	
Chief of Staff Roel Garcia 832-395-2518 <i>Roel Garcia</i>	04.02.19	04.02.19	
Director, HPW Carol Ellinger Haddock <i>C E Haddock</i>		4/2/19	

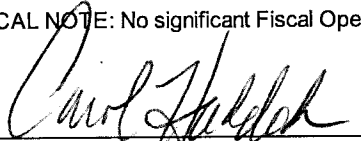
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49834



	<u>Work Description</u>	<u>Amount</u>	<u>% of Total Contract</u>
Paid Prior M/WBE Commitment		\$225,000.00	15.69%
Unpaid Prior M/WBE Commitment		\$158,130.00	11.03%
EJES Inc.	Drainage	\$5,000.00	0.35%
KUO & Associates	Surveying	\$131,163.00	9.14%
	<b>TOTAL</b>	<b>\$519,293.00</b>	<b>36.22%</b>

FISCAL NOTE: No significant Fiscal Operating impact is anticipated as a result of this project.

  
 Carol Ellinger Haddock, P.E., Director  
 Houston Public Works

WBS No. M-420HUD-004A-3

**Prior Council Action:**

Ordinance 2017-0843, dated 10-25-2017

**Amount of Funding:**

Total: \$257,400.00 from Fund No. 5000 - Federal Government - Grant Fund.

Original (previous) allocation of \$1,392,000.00 from Fund No. 5000 - Federal Government.

**Contact Information:**

Juan Chavira, P.E.  
 Assistant Director, Infrastructure Delivery Line  
 Capital Projects  
 Phone: (832) 395-2441

**ATTACHMENTS:**

<b>Description</b>	<b>Type</b>
Maps	Backup Material
OBO Docs (HHF, Vendor Info Sheets & Letters of Intent)	Backup Material
Affidavit of Ownership	Backup Material
Form B	Backup Material
Tax Report	Backup Material
Pay or Play (POP 1-3)	Backup Material
Form 1295	Backup Material
Prior Council Action	Backup Material
SAP Documents	Financial Information

### Entry Document

Hea...		Additional Data	
Document	200022050	Status	Posted
Process	Transfer	Total Sender	354,000.00
BCS Value Type	Budget	Total Receiver	354,000.00
Budget Category	Payment	Version	0
Document type	GM	Document Date	03/14/2019
		Document Year	2019
		FM Area	COH1
		Fiscal Year	2019

Y...		Periods	
Line	-/+	Fund	Funds Center
000001	+	5000	2000070002
000002	-	5000	2000070002
000003	+	5000	2000070002
000004	-	5000	2000070002

Cmmt Item	Amount	LC	Funded Program	Grant	Functional Area	Type	DK	Text
520106	234,000.00		M-420HUD-004A-3-01	32000075-2017	PUWO-00-00000000	TRAF	1	
520106	234,000.00		M-420HUD-004A-3-02	32000075-2017	PUWO-00-00000000	TRAF	1	
520106	120,000.00		M-420HUD-012A-3-01	32000075-2017	PUWO-00-00000000	TRAF	1	
520106	120,000.00		M-420HUD-012A-3-02	32000075-2017	PUWO-00-00000000	TRAF	1	





### Fund Reservation (Value Adjustment) Request Form

RCA #

Outline Agreement #

Budget Document #

(If Applicable, enter SAP - FMBB document # for Capital or Non-Capital Budgets)

#### Fund Reservation: Header Data

Document Type  Reference Existing FR Document

Document Date

Company Code  Grant Total

Currency/rate

Document Text   
(maximum of 50 characters)

#### Fund Reservation: Detail Data

FR LN	Amount Incr/Decr	Text	Fund	G/L Account	Cost Center	Internal Order (Required for GRANTS)	WBS Element (Required for Capital Projects)
1	23,400.00	Increase	5030	522730	2000070002	Q32000075-17	M-420HUD-004A-3-01-01
2			NA	NA	NA	NA	NA
3			NA	NA	NA	NA	NA
4			NA	NA	NA	NA	NA
5			NA	NA	NA	NA	NA
6			NA	NA	NA	NA	NA
7			NA	NA	NA	NA	NA
8			NA	NA	NA	NA	NA
9			NA	NA	NA	NA	NA
10			NA	NA	NA	NA	NA
11			NA	NA	NA	NA	NA
12			NA	NA	NA	NA	NA
13			NA	NA	NA	NA	NA
14			NA	NA	NA	NA	NA
15			NA	NA	NA	NA	NA
16			NA	NA	NA	NA	NA
17			NA	NA	NA	NA	NA
18			NA	NA	NA	NA	NA
19			NA	NA	NA	NA	NA
20			NA	NA	NA	NA	NA

#### Authorizations

Prepared by: Sharon Levelady Date: 3/18/2019

Requested by: Thuy Pham Date: 3/18/2019

Department Authorization: Thuy Pham Date: 03/18/2019

Controller's Office Authorization: \_\_\_\_\_ Date: \_\_\_\_\_

**Funds reservation: Display Detail scr**

      Consumption

Line Item   Position  /

Text

**Control data**


Completion indicator     Item blocked     Item block     More

**Values**

Currency	USD
Original Amount	<input type="text" value="192,000.00"/>
Overall amount	<input type="text" value="192,000.00"/>
Open amount	<input type="text" value="178,596.53"/>
Due on	<input type="text" value="09/28/2017"/>

**Coding Block**

Fund	<input type="text" value="5000"/>	Grant	<input type="text" value="32000075-2017"/>
Cost Center	<input type="text" value="2000070002"/>	Commitment Item	<input type="text" value="522730"/>
Functional Area	<input type="text" value="PUNO-00-00000000"/>		
Funds Center	<input type="text" value="2000070002"/>		

 More

**2019-2023 CAPITAL IMPROVEMENT PLAN (\$ Thousands)**

**CITY OF HOUSTON - STORM DRAINAGE SYSTEM**

<b>Project:</b> DR15 SWAT 4A, SWAT 12A, DR15 5A FACILITY UNASSIGNED - , TX 77002		<b>Project No.</b>		M-420HUD	
<b>Project Description</b>					
Drainage Improvements		<b>City Council District</b>			
		Location	V	Key Map	
		Served	V	Location Code	
		Category		Sub-Cat	
<b>Project Justification</b>					
Project will construct storm drainage improvements to address and reduce the risk of structural flooding.		Units			
		Start Year	2019		
		RCC Total	\$	RCA Total	\$

Project Allocation	Previous Appropriations						2019-2023	Project Total
		2019	2020	2021	2022	2023		
Planning								
Project Closeout								
Acquisition-Land								
Construction			24,409				24,409	
Equipment Acquisition								
Design		389					389	
Other								
<b>Total Allocation</b>		<b>389</b>	<b>24,409</b>				<b>24,798</b>	
<b>Source of Funds:</b>								
5000-Federal Government - Grant Funded		389	24,409				24,798	
<b>Total Funds</b>		<b>389</b>	<b>24,409</b>				<b>24,798</b>	

**Appropriations for 2019**

**CIP No: M-420HUD**

**Continued...**

Agenda Date	RCA WBS	Funding WBS	PWE Section	CUIC	Fund	Programmed (\$)	Current (\$)	Actual (\$)	Form A Date	Ordinance #
05/15/2019 (c)	M-420HUD-012A-3	M-420HUD-012A-3	CP INF	20PL06	5000-Federal Government - Grant Funded		132,000.00		03/05/2019	
05/29/2019 (c)	M-420HUD-004A-3	M-420HUD-004A-3	CP INF	20PL07	5000-Federal Government - Grant Funded		257,400.00		03/05/2019	

SUBTOTAL (2019)			
Fund	Programmed (\$)	Current (\$)	Actual (\$)
5000-Federal Government - Grant Funded		389,400.00	

**Appropriations for 2020 - 2023**

Agenda Date	RCA WBS	Funding WBS	PWE Section	CUIC	Fund	Programmed (\$)	Current (\$)	Actual (\$)	Form A Date	Ordinance #
10/16/2019 (c)	M-420HUD-004A-4	M-420HUD-004A-4	CP INF		5000-Federal Government - Grant Funded		12,933,567.00			
11/06/2019 (c)	M-420HUD-012A-4	M-420HUD-012A-4	CP INF		5000-Federal Government - Grant Funded		11,475,315.00			

**Pham, Mai - HPW**

---

**From:** Nickerson, Crystal - FIN  
**Sent:** Friday, March 29, 2019 2:18 PM  
**To:** Lovelady, Sharon - HPW  
**Cc:** Logerman, Yvonne - FIN; McReynolds, Philip - HPW; Pham, Mai - HPW; Gonzales, Ruth - HPW; Grizzell, Tara - HPW  
**Subject:** RE: RCA Approval HPW-20PL06 and 20PL07

Hi Sharon,

All Coversheets have been reviewed and are good to go. Please proceed in getting everything uploaded into Novus.

Kindest regards,

**Crystal Nickerson**

Finance Department

City of Houston

611 Walker St. 10<sup>th</sup> Floor

(O) 832.393.9008

(E) [Crystal.Nickerson@houstontx.gov](mailto:Crystal.Nickerson@houstontx.gov)



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**From:** Lovelady, Sharon - HPW  
**Sent:** Friday, March 29, 2019 12:27 PM  
**To:** Nickerson, Crystal - FIN <[Crystal.Nickerson@houstontx.gov](mailto:Crystal.Nickerson@houstontx.gov)>  
**Cc:** Logerman, Yvonne - FIN <[Yvonne.Logerman@houstontx.gov](mailto:Yvonne.Logerman@houstontx.gov)>; McReynolds, Philip - HPW <[Philip.McReynolds@houstontx.gov](mailto:Philip.McReynolds@houstontx.gov)>; Pham, Mai - HPW <[Mai.Pham@houstontx.gov](mailto:Mai.Pham@houstontx.gov)>; Gonzales, Ruth - HPW <[Ruth.Gonzales@houstontx.gov](mailto:Ruth.Gonzales@houstontx.gov)>; Grizzell, Tara - HPW <[Tara.Grizzell@houstontx.gov](mailto:Tara.Grizzell@houstontx.gov)>  
**Subject:** RCA Approval HPW-20PL06 and 20PL07

Good afternoon Crystal,

Please review the attached RCA's for amendments related to Grant 320000075-2017 and advise if HPW can proceed with routing for Council approval. Thank you in advance for expediting this request.

Regards,

*Sharon Lovelady*

Capital Projects & Asset Management | Financial Management Services | Houston Public Works  
832-395-2656 | [Sharon.Lovelady@houstontx.gov](mailto:Sharon.Lovelady@houstontx.gov)

20PLOT

2019-2023 CAPITAL IMPROVEMENT PLAN (\$ Thousands)

CITY OF HOUSTON - STORM DRAINAGE SYSTEM

<b>Project:</b> DR15 SWAT 4A, SWAT 12A, DR15 5A FACILITY UNASSIGNED - , TX 77002		<b>Project No.</b>		M-420HUD	
<b>Project Description</b>					
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		Location	V	Key Map	
		Served	V	Location Code	
		Category		Sub-Cat	
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<b>Total Funds</b>		<b>389</b>	<b>24,409</b>				<b>24,798</b>	



Funding Request Form

Date of the Request: 01-22-2019

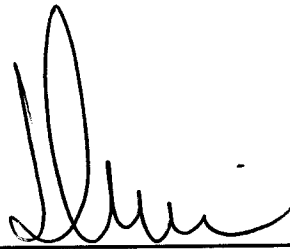
CUIC Number: 20PL07

Name of Project: DR15 SWAT 4A Northside/Northline Drainage and Paving  
Improvements

Consultant's Name: HR Green, Inc.

WBS No: M-420HUD-004A-3

Approved by: \_\_\_\_\_



Name: Juan Chavira, PE, PMP, CEM  
Title: Assistant Director  
Capital Projects

If additional information is needed contact:

Project Manager Name: Kevin Hammond, P.E.

Phone Number: 832-395-2275

Website  By Website...  **SEARCH** By Zip Code...  **SEARCH**

[Home](#) [I Want To...](#) [Government](#) [Residents](#) [Business](#) [Departments](#) [Visitors](#) [En Espanol](#)

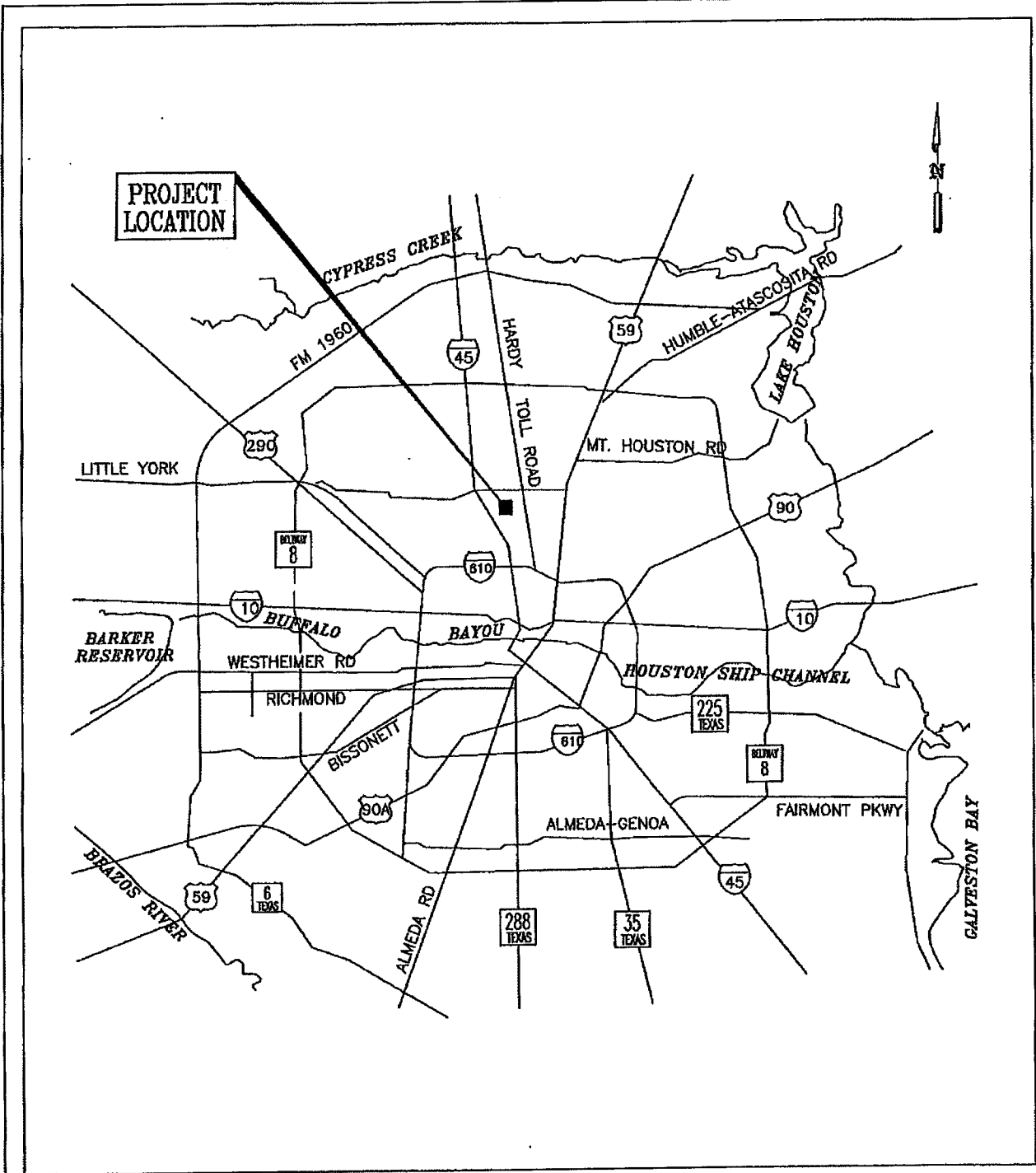
Strategic Procurement Division (SPD) Home > NIGP Code Search



## City of Houston Strategic Procurement

The complete online resource dedicated to doing business with the City of Houston.

<p><b>Strategic Procurement Departmental Links</b></p> <p>Existing Vendors Login</p> <p>Vendor Search by NIGP Code</p> <p>NIGP Code Search</p> <p>Overview of Bid/RFP Processes</p> <p>Records Management</p> <p>The Chief Procurement Officer</p> <p>Employee Directory</p> <p>Citywide DPU (Departmental Purchasing Unit) Contact List</p> <p>Site Search</p> <p>Site Map</p> <p><b>Finance Department Strategic Procurement Division City Hall Building 901 Bagby St. Concourse Level Houston, TX 77002</b></p> <p>Contact the City of Houston</p>	<p>- Jump to a different section -</p>	<p><b>NIGP Code Search &amp; Commodity Provider Search</b></p> <p><b>What are NIGP Commodity Codes?</b></p> <p>Commodity Codes were developed by the National Institute of Governmental Purchasing (NIGP) to bring efficiency to automated purchasing.</p> <p>Because these codes identify a Vendor by their specialty, trade and/or line of business, it is important that you select all the ones that apply.</p> <p>You can use this dual search tool to find Companies that provide specific commodity codes and/or services, or you can search for Companies by NIGP Codes.</p> <p>Search for: <input type="text" value="Company"/></p> <p>Company Name: <input type="text"/></p> <p>NIGP Desc. Keywords: <input type="text"/></p> <p>Specific NIGP Code: <input type="text"/></p> <p>(1st few numbers or NIGP Code format: 123-45)</p> <p>Search for: <input type="text" value="All Words"/></p> <p>Search for: <input type="text" value="Part of the Word"/></p> <p><b>Search</b> &gt;&gt;&gt;</p> <p>Company Name: <b>HR GREEN, INC.</b></p> <p>Vendor Number: 106273</p> <p>Contact Name: SUSAN NGUYEN Email: snguyen@hrgreen.com</p> <p>Address: 11011 RICHMOND AVE SUITE #375 City: HOUSTON</p> <p>State: TX Zip: 77042</p> <p>Phone: 713-965-9996 Fax: 713-965-0044</p> <table border="1"> <thead> <tr> <th>Commodity Code</th> <th>Description</th> </tr> </thead> <tbody> <tr><td>91842</td><td>ENGINEERING CONSULTI</td></tr> <tr><td>92513</td><td>BRIDGE ENGINEERING</td></tr> <tr><td>92517</td><td>CIVIL ENGINEERING</td></tr> <tr><td>92528</td><td>DRAINAGE ENGINEERING</td></tr> <tr><td>92535</td><td>ENVIRONMENTAL ENGINE</td></tr> <tr><td>92544</td><td>GENERAL CONSTRUCTION</td></tr> <tr><td>92549</td><td>HIGHWAYS; STREETS; A</td></tr> <tr><td>92579</td><td>RAILROAD; RAPID TRAN</td></tr> <tr><td>92583</td><td>SANITARY ENGINEERING</td></tr> <tr><td>92587</td><td>SEWAGE COLLECTION, T</td></tr> <tr><td>92588</td><td>STRUCTURAL ENGINEER</td></tr> <tr><td>92593</td><td>TRAFFIC &amp; TRANSPORTA</td></tr> <tr><td>92596</td><td>WASTE WATER TRTMT EN</td></tr> <tr><td>92597</td><td>WATER SUPPLY, TREATM</td></tr> <tr><td>93831</td><td>ENGINEERING &amp; SURVEY</td></tr> </tbody> </table>	Commodity Code	Description	91842	ENGINEERING CONSULTI	92513	BRIDGE ENGINEERING	92517	CIVIL ENGINEERING	92528	DRAINAGE ENGINEERING	92535	ENVIRONMENTAL ENGINE	92544	GENERAL CONSTRUCTION	92549	HIGHWAYS; STREETS; A	92579	RAILROAD; RAPID TRAN	92583	SANITARY ENGINEERING	92587	SEWAGE COLLECTION, T	92588	STRUCTURAL ENGINEER	92593	TRAFFIC & TRANSPORTA	92596	WASTE WATER TRTMT EN	92597	WATER SUPPLY, TREATM	93831	ENGINEERING & SURVEY
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93831	ENGINEERING & SURVEY																																	



**EXHIBIT 1  
VICINITY MAP**

N.T.S.  
KEY MAP NO. 413 X & Y AND 453 B & C  
COUNCIL DISTRICT H

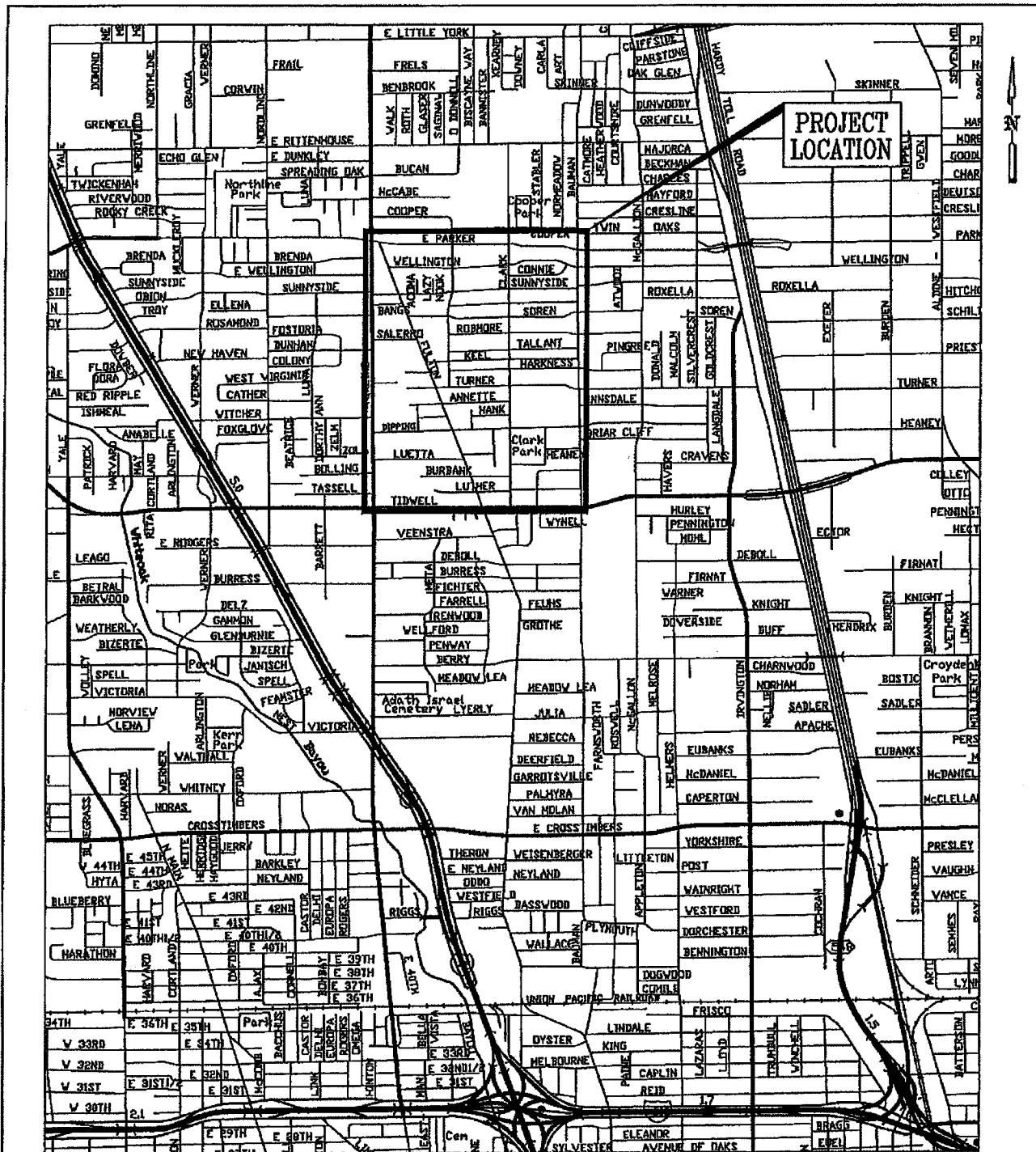


HOUSTON, TX 77042  
(713) 965-9888  
(713) 465-0044 FAX  
HRGreen.com  
Form No. F-11278

FILENAME:  
d:\2017\10891\Proposed\Exhibits\Vicinity  
Map.dwg

DATE:  
6/26/2017

**CITY OF HOUSTON  
DR 15 SWAT 4A NORTHSIDE/NORTHLINE  
DRAINAGE AND PAVING IMPROVEMENTS  
WBS NO. M-420HUD-004A-3**



**EXHIBIT 2  
LOCATION MAP**

N.T.S.  
GIMS MAP NO. 5361 B & 5361 D  
COUNCIL DISTRICT H



HOUSTON, TX 77042  
(713) 865-8888  
(713) 865-0044 FAX  
hr@hrgreen.com

Plan No. F-11278

FILENAME:

J:\2017\170991\Proposed\2017\Location Map.dwg

DATE:

6/28/2017

**CITY OF HOUSTON  
DR 15 SWAT 4A NORTHSIDE/NORTHLINE  
DRAINAGE AND PAVING IMPROVEMENTS  
WBS NO. M-420HUD-004A-3**

FORM B

COMPILATION OF CONTRACTOR SUBMISSION LISTS

CITY OF HOUSTON

FAIR CAMPAIGN ORDINANCE

Department/Division: Houston Public Works

Contact Person: Kevin Hammond  
~~Prakash Luotel, P.E.~~

Phone No.: 2275  
832-395-2436

Contract For: DR15 SWAT 4A Northside/Northline Drainage and Paving  
Improvements; WBS No. M-420HUD-004A-3

Date Submitted to City Secretary: \_\_\_\_\_

- This Section is for City Secretary's Use Only -

Date Received: \_\_\_\_\_

Date on Agenda: \_\_\_\_\_

Agenda Item Number: \_\_\_\_\_

Date Contract Awarded: \_\_\_\_\_

ORIG. DEPT.: PUBLIC WORKS AND ENGINEERING FILE/I.D. NO.: WBS No. M-420HUD-004A-3

**INSTRUCTION:** ENTITIES USING AN ASSUMED NAME SHOULD DISCLOSE THAT FACT TO AVOID REJECTION OF THIS AFFIDAVIT. THE FOLLOWING FORMAT IS RECOMMENDED: CORPORATE/LEGAL NAME DBA ASSUMED NAME.

STATE OF Texas §  
 COUNTY OF Harris § **AFFIDAVIT OF OWNERSHIP OR CONTROL**

BEFORE ME, the undersigned authority, on this day personally appeared Stephen A. Sparks [FULL NAME] (the "Affiant"), Corporate Secretary [STATE TITLE/CAPACITY WITH CONTRACTING ENTITY] of HR Green, Inc. [CONTRACTING ENTITY'S CORPORATE/LEGAL NAME] ("Contracting Entity"), who being by me duly sworn on oath stated as follows:

1. Affiant is authorized to give this affidavit and has personal knowledge of the facts and matters herein stated.
2. Contracting Entity seeks to do business with the City in connection with DR15 SWAT 4A Northside/Northline Drainage and Paving Improvements; WBS No. M-420HUD-004A-3 [DESCRIBE PROJECT OR MATTER] which is expected to be in an amount that exceeds \$50,000.
3. The following information is submitted in connection with the proposal, submission or bid of Contracting Entity in connection with the above described project or matter.
4. Contracting Entity is organized as a business entity as noted below (check box as applicable).

<b>FOR PROFIT ENTITY:</b> <input type="checkbox"/> SOLE PROPRIETORSHIP <input checked="" type="checkbox"/> CORPORATION <input type="checkbox"/> PARTNERSHIP <input type="checkbox"/> LIMITED PARTNERSHIP <input type="checkbox"/> JOINT VENTURE <input type="checkbox"/> LIMITED LIABILITY COMPANY <input type="checkbox"/> OTHER (Specify type in space below)	<b>NON-PROFIT ENTITY:</b> <input type="checkbox"/> NON-PROFIT CORPORATION <input type="checkbox"/> UNINCORPORATED ASSOCIATION
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5. The information shown below is true and correct for the Contracting Entity; and
6. All owners of 10% or more of the Contracting Entity and, where the Contracting Entity is a non-profit entity, the required information has been shown for each officer, i.e., president, vice-president, secretary, treasurer, etc. [NOTE: IN ALL CASES, USE FULL NAMES, LOCAL BUSINESS AND RESIDENCE ADDRESSES AND TELEPHONE

NUMBERS. **DO NOT** USE POST OFFICE BOXES FOR ANY ADDRESS. INCLUSION OF E-MAIL ADDRESSES IS OPTIONAL, BUT RECOMMENDED. ATTACH ADDITIONAL SHEETS AS NEEDED.]

**Contracting Entity**

Name: HR Green, Inc.

Business Address [No./STREET] 11011 Richmond Ave, Suite 200

[CITY/STATE/ZIP CODE] Houston, TX 77042

Telephone Number ( 713 ) 965-9996

Email Address [OPTIONAL] ssparks@hrgreen.com

Residence Address [No./STREET] \_\_\_\_\_

[CITY/STATE/ZIP CODE] \_\_\_\_\_

Telephone Number ( \_\_\_\_\_ ) \_\_\_\_\_

Email Address [OPTIONAL] \_\_\_\_\_

**10% Owner(s) or More (IF NONE, STATE "NONE.")**

Name: Green Companies, Inc.

Business Address [No./STREET] 8710 Earhart Lane SW

[CITY/STATE/ZIP CODE] Cedar Rapids, IA 52404

Telephone Number ( 800 ) 728-7805

Email Address [OPTIONAL] \_\_\_\_\_

Residence Address [No./STREET] \_\_\_\_\_

[CITY/STATE/ZIP CODE] \_\_\_\_\_

Telephone Number ( \_\_\_\_\_ ) \_\_\_\_\_

Email Address [OPTIONAL] \_\_\_\_\_

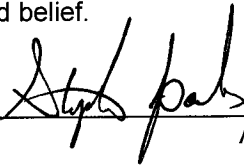
**7. Optional Information**

Contracting Entity and/or N/A [NAME OF OWNER OR NON-PROFIT OFFICER] is actively protesting, challenging or appealing the accuracy and/or amount of taxes levied against N/A [CONTRACTING ENTITY, OWNER OR NON-PROFIT OFFICER] as follows:

Name of Debtor: \_\_\_\_\_  
Tax Account Nos. \_\_\_\_\_  
Case or File Nos. \_\_\_\_\_  
Attorney/Agent Name \_\_\_\_\_  
Attorney/Agent Phone No. (\_\_\_\_) \_\_\_\_\_  
Tax Years \_\_\_\_\_

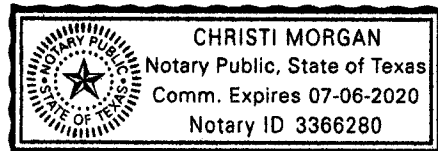
Status of Appeal [DESCRIBE] \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Affiant certifies that he or she is duly authorized to submit the above information on behalf of the Contracting Entity, that Affiant is associated with the Contracting Entity in the capacity noted above and has personal knowledge of the accuracy of the information provided herein, and that the information provided herein is true and correct to the best of Affiant's knowledge and belief.

  
\_\_\_\_\_  
Affiant

SWORN TO AND SUBSCRIBED before me this 11 day of February, 2019.

(Seal)



  
\_\_\_\_\_  
Notary Public

**NOTE:**

This affidavit constitutes a **government record** as defined by Section 37.01 of the Texas Penal Code. Submission of a false government record is punishable as provided in Section 37.10 of the Texas Penal Code. Attach additional pages if needed to supply the required names and addresses.



Copy of LOG TO LINEBARGER 3-05-2019

Pursuant to Section 15-124(e) of the Code of Ordinances of the COH, the Office of the City Controller certifies that the tax delinquency status for the current tax year is listed below for the contracting entities contained in this log.  <i>Shannon D. Miller</i> On behalf of Chris B. Brown, City Controller		Notice MARCH 2019- FEBRUARY 2020 10% OWNERS OR OFFICERS		Account No.	City Tax	County Tax	Years	Notes
File	Company Name/Address							
20-M-420-004A-3	HR GREEN, INC 11011 RICHMOND AVE, STE. 200 HOUSTON, TX 77042							No del. found
								No account found in HCTO

**City of Houston  
Schedule of MWDBE Participation**

**Project Name and WBS No:** DR15 SWAT 4A Northside/Northline Drainage and Paving M-420HUD-004A-3  
**Prime Contractor:** HR Green, Inc.  
**Liasion/Phone:** Nathan Seshadri 713-965-9996

Name of Minority/Women Disadvantaged Firm	Certification No.	Description of Work to be Performed	Prior Commitment	Paid Prior Commitment	Unpaid Prior Commitment	Additional Proposed Commitment	Total Commitment	Paid Prior Commitment %	Total Proposed Commitment %
EJES Inc	(MBE)	Drainage	\$40,000.00	\$0.00	\$40,000.00	\$5,000.00	\$45,000.00	0.00%	3.14%
HVJ Associates	(MBE)	Geotechnical	\$38,130.00	\$0.00	\$38,130.00	\$0.00	\$38,130.00	0.00%	2.66%
KIT Professionals	(MBE)	Civil Engineering	\$80,000.00	\$0.00	\$80,000.00	\$0.00	\$80,000.00	0.00%	5.58%
KUO & Associates	(MBE)	Surveying	\$225,000.00	\$225,000.00	\$0.00	\$131,163.00	\$356,163.00	15.69%	24.84%
<b>Totals</b>			\$383,130.00	\$225,000.00	\$158,130.00	\$136,163.00	\$519,293.00	15.69%	36.21%

\$1,434,000.00	24%	\$519,293.00	36.21%
<b>Total Contract Amount</b>	<b>MWBE Goal</b>	<b>MWBE Subcontract Amount</b>	<b>MWBE % of Total Contract Amount</b>

The Undersigned will enter into a formal contract with MWDBE firms for the work listed in this schedule contingent upon being awarded the contract for the above referenced project. Signed Letters of Intent for each firm listed above may be submitted prior to contract award.

NOTE: All firms must be certified by the City of Houston Office of Business Opportunities to count toward the MWDBE participation goal.

## Vendor Information

CLOSE WINDOW [Print](#)**Business & Contact Information**

Business Name **EJES Incorporated**  
Owner **Edwin Jones**  
Address **6161 Savoy Drive, Suite 830**  
> [Map This Address](#) **Houston, TX 77036**  
Phone **281-272-1612**  
Fax **281-272-1619**  
Email **[acalhoun@ejesinc.com](mailto:acalhoun@ejesinc.com)**  
Website **<http://www.ejesinc.com>**

**Certification Information**

Certifying Agency **City of Houston**  
Certification Type **MBE - Minority Business Enterprise**  
Renewal Date **12/31/2018**  
Certified Business Description **Civil Engineering & Construction Mgmt Services**

**Commodity Codes**

Code	Description
NAICS 237110	Construction management, water and sewage treatment plant
NAICS 541330	Civil engineering services

**Additional Information**

Category **Architectural & Engineering Products and Services**

## Vendor Information

CLOSE WINDOW [Print](#)**Business & Contact Information**

Business Name **Kuo & Associates, Inc.**  
Owner **Shaheen Chowdhury**  
Address **10700 Richmond Avenue, Suite 113**  
> [Map This Address](#) **Houston, TX 77042**  
Phone **713-975-8769**  
Fax **713-975-0920**  
Email **[shaheen.chowdhury@kuoassociates.com](mailto:shaheen.chowdhury@kuoassociates.com)**  
Website **[www.kuoassociates.com](http://www.kuoassociates.com)**

**Certification Information**

Certifying Agency **City of Houston**  
Certification Type **MBE - Minority Business Enterprise**  
Renewal Date **10/31/2018**  
Certified Business Description **Consulting Engineer: Civil Design On Airport, Paving, Bridge, Drainage, Utilities Traffic And Transportation Projects, Surveying, Registered Engineers And Topographical And Boundary Surveying**

**Commodity Codes**

Code	Description
NAICS 541330	Engineering services
NAICS 541370	Surveying and mapping services (except geophysical)

**Additional Information**

Category **Architectural & Engineering Products and Services**

Letter of Intent

To: City of Houston  
Public Works and Engineering Department  
Project Manager: Kevin Hammond

Date: March 8, 2019

Project Name and WBS Number: DR15 SWAT 4A Northside/Northline Drainage and Paving Improvement

WBS No. M-420HUD-004A-3

Contract Amount: \$1,434,000.00 M/W/BE Goal: 24%

HR Green, Inc. agrees to enter into a contractual agreement with  
(Prime Contractor)

EJES, Inc., who will provide the following goods/services in  
(MWBE Subcontractor)

connection with the above referenced contract:

civil engineering and drainage design services

for an estimated amount of \$45,000.00 or 3.14% % of the total contract value.

EJES, Inc. is currently certified with the City of Houston's Office  
(MWBE Subcontractor)

of Business of Opportunity Office to function in the aforementioned capacity.

HR Green, Inc.  
(Prime Contractor)

EJES, Inc.  
(MWBE Subcontractor)

intend to work on the above-named contract in accordance with the M/W/DBE Participation Section of the City of Houston Bid Provisions, contingent upon award of the contract to the aforementioned Prime Contractor.

  
Signed (Prime Contractor)

Stephen A. Sparks, PE  
Printed Signature

Vice President 3/8/19  
Title Date

  
Signed (MWBE Subcontractor)

Kamal Rasheed, PE  
Printed Signature

Vice President 3/11/2019  
Title Date

Letter of Intent

To: City of Houston  
Public Works and Engineering Department  
Project Manager: Kevin Hammond

Date: March 8, 2019

Project Name and WBS Number: DR15 SWAT 4A Northside/Northline Drainage and Paving Improvement

WBS No. M-420HUD-004A-3

Contract Amount: \$1,434,000.00

M/W/BE Goal: 24%

HR Green, Inc. agrees to enter into a contractual agreement with  
(Prime Contractor)

Kuo & Associates, Inc., who will provide the following goods/services in  
(M/W/BE Subcontractor)

connection with the above referenced contract:

surveying services

for an estimated amount of \$ 356,163.00 or 24.84% % of the total contract value.

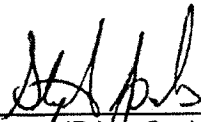
Kuo & Associates, Inc. is currently certified with the City of Houston's Office  
(M/W/BE Subcontractor)

of Business of Opportunity Office to function in the aforementioned capacity.

HR Green, Inc.  
(Prime Contractor)

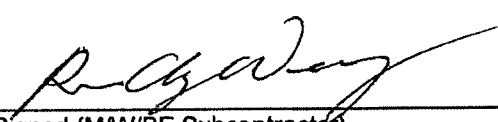
Kuo & Associates, Inc.  
(M/W/BE Subcontractor)

intend to work on the above-named contract in accordance with the M/W/DBE  
Participation Section of the City of Houston Bid Provisions, contingent upon award of  
the contract to the aforementioned Prime Contractor.

  
Signed (Prime Contractor)

Stephen A. Sparks, PE  
Printed Signature

Vice President 3/8/19  
Title Date

  
Signed (M/W/BE Subcontractor)

Ren Chyun Steven Weng, PE, RPLS  
Printed Signature

Vice President 3/8/19  
Title Date

Document 00630  
(POP-2)  
City of Houston  
Certification of Compliance with  
Pay or Play Program

Contractor Name: HR Green, Inc. \$ 1,434,000  
(Contractor/Subcontractor) (Amount of Contract)

Contractor Address: 11011 Richmond Ave #200, Houston, Texas 77042

Project No.: M-420HUD-004A-3

Project Name: DR15 SWAT 4A Northside/Northline Drainage and Paving

POP Liaison Name: Stephen A. Sparks

In accordance with the City of Houston Pay or Play Program authorized by Ordinance 2007-534 and Executive Order 1-7, Contractor/Subcontractor agrees to abide by the terms of this Program. This certification is required of all contractors for contracts subject to the program. You must agree EITHER to PAY or to PLAY for all covered employees. The Contractor/Subcontractor may also Pay on behalf of some covered employees and Play on behalf of other covered employees.

The Contractor/Subcontractor will comply with all provisions of the Pay or Play Program and will furnish all information and reports requested to determine compliance with program requirements of the Pay or Play Program (See Executive Order 1-7 for the terms of the Pay or Play program) The criteria of the program is as follows:

The Contractor/Subcontractor agrees to "Pay" \$1.00 per hour for work performed by covered employees under the contract with the City. If independent contract labor is utilized the Contractor/Subcontractor agrees to report hours worked by the independent contract laborer and pay \$1.00 per hour for work performed.

Otherwise the Contractor/Subcontractor agrees to "Play" by providing health benefits to each covered employee. The health benefits must meet the following criteria:

1. The employer will contribute no less than \$150 per employee per month toward the total premium cost for single coverage only; and
2. The employee contribution, if any amount, will be no greater than 50% of the total premium cost and no more than \$150 per month.
3. Pursuant to E.O. 1-7 section 4.04 a contractor is deemed to have complied with respect to a covered employee who is not provided health benefits if the employee refuses the benefits and the employee's contribution to the premium is no more than \$40 per month.

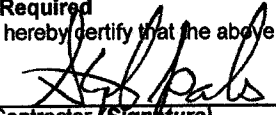
Please indicate which you have selected:	Pay	Play	Both
	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

The Contractor/Subcontractor will file compliance reports with the City, which will include activity for covered employees subject to the program, in the form and to the extent requested by the administering department. Compliance reports shall contain information including, but not limited to, documentation showing employee health coverage and employee work records.

**Note: The Contractor is responsible to the City for the compliance of covered employees of covered subcontractors and only forms that are accurate and complete will be accepted.**

Form Number	Count	Value
Total Employees on City Job	5	
Covered Employees	5	
Non-Covered Employees		
Exempt Employees		

**\*Required**  
I hereby certify that the above information is true and correct.

 4/1/19  
Contractor (Signature) Date  
Stephen A. Sparks - Vice President

Name and Title (Print or type) 00630  
07-03-2012

**Document 00631  
(POP-3)  
City of Houston  
Pay or Play Program  
List of Subcontractors**

CITY OF HOUSTON  
STANDARD DOCUMENT

Prime Contractor: HR Green, Inc.  
Project Number/Description: DR15 SWAT 4A Northside/Northline Drainage and Paving Improvements, WBS No. M-420HUD-004A-3

POP Contact Person: Stephen A. Sparks  
Address: 11011 Richmond Ave, Ste 200  
Houston, TX 77042  
Email: ssparks@hrgreen.com  
Phone: 713-965-9996

Note: Include ALL subcontractors (use additional form if necessary)

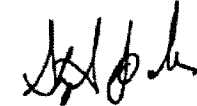
Subcontractor Name	Supplier Y/N?	Amount of Subcontract	Check One				Contact Person	Phone	Email Address	Mailing Address
			Pay	Play	Both (Pay and Play)	N/A				
HVJ Assoc. Inc.	N	\$38,130				X	Sharmi Vedantam	281-983-8839	svedantam@hvj.com	6120 S Dairy Ashford 77072
KUO & Assoc. Inc.	N	\$356,163		X			Steven Weng	713-975-8769	steven.weng@kuoassociates.com	10700 Richmond 77042
KIT Professionals Inc.	N	\$80,000				X	Michael Lacy	713-972-6646	mdlacy@kitprofs.com	2000 W Sam Hou Pkwy S 77042
EJES Inc.	N	\$45,000				X	John Kovski	281-272-1612	jkovski@ejesinc.com	6161 Savoy 77036

07-03-2012  
00631

\*If the above information is found to be submitted fraudulently with the intent to bypass or deceive the purpose of the Pay or Play Program the contractor will be held liable for all compliance requirements from the inception of the contract. All subcontracts that surpass the \$200,000.00 threshold will be responsible for Pay or Play compliance from the inception of the contract.

**Affidavit**

I hereby solemnly affirm, certify and confirm that the total sub-contract value stated above is the final value of the contract (\*) including all material costs, fuel, payroll, taxes, fees, profit sharing, labor or any payments in relation to the contracted work and no separate payment or contract has been made for the sub-contract under contract no. WBS No. M-420HUD-004A-3. The above sub-contract value includes all the costs related to work under the contract. The contractor and sub-contractor(s) agree to inform The Mayor's Office of Business Opportunity of any related cost(s) added to the contracted work and re-submit POP-3 with the current value of the sub-contract. I understand that compliance with "Pay or Play" program is mandatory and nothing has been hidden to circumvent the program requirements.

  
Vice President 12/17/18  
Contractor Authorized Representative & Title Date  
Name & Signature

PAY OR PLAY PROGRAM  
LIST OF SUBCONTRACTORS




Document 00460  
(POP -1)  
City of Houston  
Pay or Play Program  
Acknowledgement Form

It has been determined that the project currently open for bidding meets the criteria of the City of Houston Pay or Play program. This form acknowledges your awareness of the Pay or Play program which is authorized by Ordinance 2007-534. Your signature below affirms that you will comply with the requirements of the program if you are the successful bidder/proposer, and ensure the same on behalf of subcontracts subject to the Pay or Play Program.

I declare under penalty of perjury under the laws of the State of Texas that if awarded this contract which meets the criteria for the City of Houston's Pay or Play Program, I will comply with all requirements of the Pay or Play Program in accordance with Executive Order 1-7.

**\*Fill out all information below and submit this form with your bid/proposal packet.**

M-420HUD-004A-3  
Solicitation Number

  
Signature

6/29/17  
Date

Stephen A. Sparks  
Print Name

106273  
City Vendor ID

HR Green, Inc.  
Company Name

713-965-9996  
Phone Number

ssparks@hrgreen.com  
Email Address

**Note: For more information contact your POP Liaison or the POP Contract Administrator. All contact information can be found on [www.houstontx.gov](http://www.houstontx.gov) → Departments → Office of Business Opportunity → Pay or Play.**

**CERTIFICATE OF INTERESTED PARTIES**

**FORM 1295**

1 of 1

Complete Nos. 1 - 4 and 6 if there are interested parties.  
Complete Nos. 1, 2, 3, 5, and 6 if there are no interested parties.

**OFFICE USE ONLY  
CERTIFICATION OF FILING**

**1 Name of business entity filing form, and the city, state and country of the business entity's place of business.**  
HR Green, Inc.  
Houston, TX United States

**2 Name of governmental entity or state agency that is a party to the contract for which the form is being filed.**  
City of Houston Department of Public Works and Engineering

**Certificate Number:**  
2017-228770

**Date Filed:**  
06/26/2017

**Date Acknowledged:**

**3 Provide the identification number used by the governmental entity or state agency to track or identify the contract, and provide a description of the services, goods, or other property to be provided under the contract.**  
WBS NO. M-420HUD-004A-3  
DR15 SWAT 4A Northside/Northline Drainage & Paving Improvements; HRG #170691

4 Name of Interested Party	City, State, Country (place of business)	Nature of Interest (check applicable)	
		Controlling	Intermediary
Dougherty, David	Des Moines, IA United States	X	
Moermond, David	Des Moines, IA United States	X	
Poppen, Jason	Houston, TX United States	X	
Horner, Dawn	Sioux Falls, SD United States	X	
Heyer, Steven	Cedar Rapids, IA United States	X	
Protsch, Eliot	Cedar Rapids, IA United States	X	
White, Richard	Cedar Rapids, IA United States	X	
Hogan, Patrick	Cedar Rapids, IA United States	X	

**5 Check only if there is NO Interested Party.**

**6 AFFIDAVIT** I swear, or affirm, under penalty of perjury that the above disclosure is true and correct.

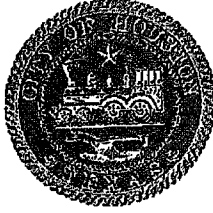


*[Handwritten Signature]*  
Signature of authorized agent of contracting business entity

AFFIX NOTARY STAMP / SEAL ABOVE

Sworn to and subscribed before me, by the said Jason Poppen, this the 27 day of June, 2017, to certify which, witness my hand and seal of office.

*[Handwritten Signature]* Signature of officer administering oath  
Christi Morgan Printed name of officer administering oath  
Notary Public Title of officer administering oath



**CITY OF HOUSTON - CITY COUNCIL**

Meeting Date: 10/24/2017

District H

Item Creation Date: 7/21/2017

20JGC02 / PES / HR Green, Inc.

Agenda Item#: 36.

**Background:**

**SUBJECT:** Professional Engineering Services Contract between the City and HR Green, Inc., for DR15 SWAT 4A Northside/Northline Drainage and Paving Improvements. WBS No. M-420HUD-004A-3.

**RECOMMENDATION: (SUMMARY)**

An ordinance approving a Professional Engineering Services Contract with HR Green, Inc., and allocate funds.

**PROJECT NOTICE/JUSTIFICATION:** This project is part of the Department of Housing and Urban Development's Community Development Block Grant – 2015 Disaster Recovery program and is necessary to reconstruct inadequate drainage systems and reduce the potential for structural flooding. This project represents how the City will use its grant allocation to support recovery in the most impacted and distressed areas included in the 2015 major disaster declaration. This project demonstrates the City's commitment to recover, rebuild, and focus on resilience for its citizens.

**DESCRIPTION/SCOPE:** This project provides for design and construction of storm water drainage and paving improvements and necessary utilities to serve the Northside/Northline area.

**LOCATION:** The project area is generally bound by Parker Road on the north, Tidwell Road on the south, Bauman Road on the east, and Fulton Street on the west. The project is located in Key Map Grids 413 X&Y and 453 B&C.

**SCOPE OF CONTRACT AND FEE:** Under the scope of the Contract, the Consultant will perform Phase I - Preliminary Design, Phase II - Final Design, Phase III - Construction Phase Services and Additional Services. The Basic and Additional Services fee for the work order will be negotiated for each Phase based on the scope of services required and all Phases will be paid on a reimbursable basis with authorization not-to-exceed the agreed upon amount.

The total cost of this project is \$1,392,000.00 to be allocated as follows: \$1,200,000.00 for Contract services and \$192,000.00 for CIP Cost Recovery.

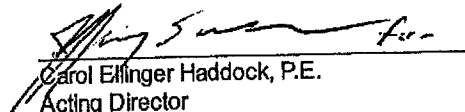
**PAY OR PLAY PROGRAM:** The proposed contract requires compliance with the City's 'Pay or Play' ordinance regarding health benefits for employees of City contractors. In this case, the Consultant provides health benefits to eligible employees in compliance with City policy.

**M/WBE PARTICIPATION:** The M/WBE goal for the project is set at 24%. The Consultant has proposed the following firms to achieve this goal.

<u>Name of Firms</u>	<u>Work Description</u>	<u>Amount</u>	<u>% of Total Contract</u>
1. HVJ Associates, Inc.	Geotechnical and Environmental Services	\$ 38,130.00	3.18%
2. Kuo & Associates, Inc.	Surveying Services	\$ 225,000.00	18.75%
3. KIT Professionals, Inc.	Civil/Engineering Support	\$ 80,000.00	6.67%
4. EJES Incorporated	Civil/Engineering Support	\$ 40,000.00	3.33%
<b>TOTAL</b>		<b>\$ 383,130.00</b>	<b>31.93%</b>

**ESTIMATED FISCAL OPERATING IMPACT:**

No significant Fiscal Operating impact is anticipated as a result of this project.

  
Carol Ellinger Haddock, P.E.  
Acting Director  
Department of Public Works and Engineering

WBS No. M-420HUD-004A-3

**Amount of Funding:**

\$1,392,000.00 from Fund No. 5000 – Federal Government

**Contact Information:**

Brian Alcott, P.E., CCM  
Acting Senior Assistant Director, Capital Projects  
Phone: (832) 395-2396

**ATTACHMENTS:**

Description	Type
Maps	Backup Material
Signed Coversheet	Signed Cover sheet
OBO Docs (Vendor Info Sheets & Letters of Intent)	Backup Material
Form A - Contractor's Submission List (doc 00452)	Backup Material
Form B - Fair Campaign Ord.	Backup Material
Affidavit of Ownership (doc 0455)	Backup Material
Tax Report	Backup Material
Pay or Play (POP 1-3)	Backup Material
Form 1295	Backup Material
SAP documents	Financial Information
Grant Funding Verification - CN	Backup Material

Controller's Office

To the Honorable Mayor and City Council of the City of Houston, Texas:

I hereby certify, with respect to the money required for the contract, agreement, obligation or expenditure contemplated by the ordinance set out below that:

- ( ) Funds have been encumbered out of funds previously appropriated for such purpose.
- ( ) Funds have been certified and designated to be appropriated by separate ordinance to be approved prior to the approval of the ordinance set out below.
- ( ) Funds will be available out of current or general revenue prior to the maturity of any such obligation.
- ( ) No pecuniary obligation is to be incurred as a result of approving the ordinance set out below.
- ( ) The money required for the expenditure or expenditures specified below is in the treasury, in the fund or funds specified below, and is not appropriated for any other purposes.
- ( ) A certificate with respect to the money required for the expenditure or expenditures specified below is attached hereto and incorporated herein by this reference.
- Other - Grant Funds Available

*Clayton Brown*  
*General Mgr*

Date: 10-24, 2017 City Controller of the City of Houston, Texas

SEC  
FUND REF: <sup>520 216</sup> <sup>520 216</sup> <sup>520 216</sup> AMOUNT: <sup>520 216</sup> \$1,200,000.00 ENCUMB. NO. : <sup>520 216</sup> FR 2-4272 PD 42-7787  
CA 46-44579

City of Houston, Texas Ordinance No. 2017-843

AN ORDINANCE APPROVING AND AUTHORIZING A PROFESSIONAL ENGINEERING SERVICES CONTRACT BETWEEN THE CITY OF HOUSTON AND HR GREEN, INC. FOR DR15 SWAT 4A NORTHSIDE/NORTHLINE DRAINAGE AND PAVING IMPROVEMENTS; CONTAINING PROVISIONS RELATED TO THE SUBJECT; AND DECLARING AN EMERGENCY.

\* \* \* \*

BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF HOUSTON, TEXAS:

Section 1. The City Council hereby allocates the sum or sums of money set out in the title of this Ordinance, out of the respective fund or funds set out in such title as follows: the sum of \$1,200,000.00 is allocated for contract services related to the project described in the title and the sum of \$192,000.00 is allocated for CIP Cost Recovery relating to construction of facilities financed by the fund described in such title.

Section 2. The City Council hereby approves and authorizes the contract, agreement or other undertaking described in the title of this ordinance, in substantially the form as shown in the document which is attached hereto and incorporated herein by this reference. The Mayor is hereby authorized to execute such document and all related documents on behalf of the City of Houston. The City Secretary is hereby authorized to attest to all such signatures and to affix the seal of the City to all such documents.

Section 3. The Mayor is hereby authorized to take all actions necessary to effectuate the City's intent and objectives in approving such agreement, agreements or other undertaking referenced in the title of this ordinance, in the event of changed circumstances.

Section 4. The City Attorney is hereby authorized to take all action necessary to enforce all legal obligations under said contract without further authorization from Council.

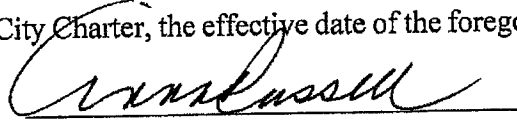
Section 5. There exists a public emergency requiring that this Ordinance be passed finally on the date of its introduction as requested in writing by the Mayor; therefore, this Ordinance shall be passed finally on such date and shall take effect immediately upon its passage and approval by the Mayor; however, in the event that the Mayor fails to sign this Ordinance within five days after its passage and adoption, it shall take effect in accordance with Article VI, Section 6, Houston City Charter.

PASSED AND ADOPTED this 25<sup>th</sup> day of October, 2017.


APPROVED this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_\_.

\_\_\_\_\_  
Mayor of the City of Houston, Texas

Pursuant to Article VI, Section 6, Houston City Charter, the effective date of the foregoing Ordinance is  
OCT 31 2017.

  
\_\_\_\_\_  
City Secretary

Amount of Funding:  
\$1,392,000.00 – Fund No. 5000 Federal Government

(Prepared by Legal Dept.   
(ARC;bt 10/10/2017) Assistant City Attorney  
(Requested by Carol E. Haddock, P.E., Acting Director, Public Works and Engineering Department)  
(L.D. File No. 0661700022001)

CAPTION PUBLISHED IN DAILY COURT  
 REVIEW DATE: **OCT 31 2017**

AYE	NO	
✓		<b>MAYOR TURNER</b>
....	....	<b>COUNCIL MEMBERS</b>
✓		STARDIG
ABSENT		DAVIS
✓		COHEN
✓		BOYKINS
✓		MARTIN
✓		LE
✓		TRAVIS
✓		CISNEROS
✓		GALLEGOS
✓		LASTER
✓		GREEN
✓		KNOX
✓		ROBINSON
✓		KUBOSH
✓		EDWARDS
✓		CHRISTIE
CAPTION	ADOPTED	

MAY 017 Rev. 12/15

4600014579  
2017-0843

CITY OF HOUSTON

AND

HR GREEN, INC.

WORK ORDER

PROFESSIONAL ENGINEERING SERVICES

FOR DESIGN OF

DR15 SWAT 4A NORTHSIDE/NORTHLINE DRAINAGE AND PAVING IMPROVEMENTS

WBS NO. M-420HUD-004A-3



CITY OF HOUSTON

AND

HR GREEN, INC.

WORK ORDER

PROFESSIONAL ENGINEERING SERVICES

FOR DESIGN OF

DR15 SWAT 4A NORTHSIDE/NORTHLINE DRAINAGE AND PAVING IMPROVEMENTS

WBS NO. M-420HUD-004A-3

CONTRACT  
FOR  
PROFESSIONAL ENGINEERING SERVICES  
FOR  
DR15 SWAT 4A NORTHSIDE/NORTHLINE DRAINAGE AND PAVING IMPROVEMENTS  
WBS NO. M-420HUD-004A-3

THE STATE OF TEXAS           §  
  §  
COUNTY OF HARRIS           §

THIS CONTRACT FOR PROFESSIONAL ENGINEERING SERVICES ("Contract") is made on the date countersigned by the City Controller, by and between the CITY OF HOUSTON, TEXAS (the "City"), a municipal corporation and home-rule city of the State of Texas principally situated in Harris County, and HR GREEN, INC. (the "Engineer"), acting by and through its duly authorized officer. The initial addresses of the parties, which one party may change by giving notice to the respective other party, are as follows:

<u>City</u>	<u>Engineer</u>
Director Department of Public Works & Engineering City of Houston P.O. Box 1562 Houston, Texas 77251	Stephen Sparks, Vice President HR GREEN, INC. 11011 Richmond Ave., Suite 200 Houston, TX 77042

RECITALS:

WHEREAS, the City desires to obtain professional engineering services in connection with the planning and/or design of the Project hereinafter described; and

WHEREAS, the Engineer desires to provide such services in exchange for the fees hereinafter specified;

NOW, THEREFORE, for and in consideration of the premises and mutual covenants herein contained, it is agreed as follows:

**ARTICLE 1**  
**GENERAL**

- 1.1 **Definitions:** The following Definitions are used throughout this Contract, including Exhibit "A". See Exhibit "A" for any additional Definitions applicable to this Contract.
- 1.1.1 **Additional Services:** Services completed by Engineer in support of the Project that are not part of Basic Services, but are included in Article 2 of this Contract and as further described in Exhibit "A", Exhibit "A-1", and the Notice(s) to Proceed.
- 1.1.2 **Basic Services:** Services completed by Engineer in support of the Project, included in Article 2 of this Contract and as further described in Exhibit "A", Exhibit "A-1", and the Notice(s) to Proceed.
- 1.1.3 **City:** As defined in the preamble of this Contract, including its successors and assigns.
- 1.1.4 **City Design Manual:** "City of Houston Infrastructure Design Manual" in effect at the time of execution of this Contract, a current version of which can be found on the internet at the following URL: [http://documents.publicworks.houstontx.gov/document-center/cat\\_view/88-engineering-and-construction/90-design-manuals/364-city-of-houston-infrastructure-design-manual.html](http://documents.publicworks.houstontx.gov/document-center/cat_view/88-engineering-and-construction/90-design-manuals/364-city-of-houston-infrastructure-design-manual.html)
- 1.1.5 **City Personnel:** All City employees, but not elected officials.
- 1.1.6 **Construction Documents:** All of the graphic and written information prepared or assembled by Engineer for communicating the design and for administering the bidding and construction of the Project.
- 1.1.7 **Construction Package:** The services and deliverables that make up a whole or a part of the Project, as further described in this Contract.
- 1.1.8 **Consultant (also "Subcontractor"):** The professional Consultant or other professional entity subcontracted by Engineer to provide a portion of engineering services required under the City-Engineer Contract.
- 1.1.9 **Consultant Markup:** A markup factor of 10%, which Engineer may apply only to Consultant subcontract invoices for Additional Services performed by the Consultant. Engineer shall not apply any Consultant Markup to Basic Services performed by Consultant or any services by Engineer.

- 1.1.10 **Consultant Subcontract Cost:** The ordinary and reasonable cost of Consultant subcontracts made by Engineer and approved by the Director for the principal purpose of obtaining the professional services of others in connection with the performance of any service under this Contract.
- 1.1.11 **Cooperative Development Agreement:** A contract between the City and a Developer in which the City and Developer share the cost of construction and other eligible costs.
- 1.1.12 **Developer:** The owner or agent of the owner development lots or tracts of property for further sale, lease, development, or redevelopment for residential, commercial, or industrial use.
- 1.1.13 **Director:** The Director of the Department of Public Works and Engineering, or such other person designated from time to time by the Director by notice to Engineer to administer this Contract on behalf of the City.
- 1.1.14 **Documents:** The reports, charts, analyses, maps, letters, tabulations, exhibits, notes, models, photographs, the original transparencies of all drawings, Construction Documents, computer programs including source and object codes, and other work products obtained by or prepared by Engineer as part of its services under this Contract. The Director shall specify the medium and format in which Engineer shall provide such documents.
- 1.1.15 **Engineer:** As defined in the preamble of this Contract, including its successors and assigns.
- 1.1.16 **Negotiated Lump Sum:** An amount consistent with the terms of this Contract that City shall pay Engineer for the completed performance of services, not to exceed the estimated total of the following:
- 1.1.16.1 Raw Salary times Raw Salary Multiplier for services performed directly by Engineer and Engineer's employees, plus
  - 1.1.16.2 Reimbursable Expenses, plus
  - 1.1.16.3 Consultant Subcontract Costs plus Engineer's Consultant Markup, plus
  - 1.1.16.4 Reasonable fees paid to contract personnel and personnel employed through employment agencies plus Engineer's Consultant Markup.
- 1.1.17 **Notice to Proceed:** A written communication from the Director that authorizes Engineer to begin performance of work. Multiple Notices to Proceed should be anticipated for contracts that include multiple projects/subprojects. A Notice to Proceed will contain the following:
- 1.1.17.1 A declaration that the City has allocated adequate funds for that phase or service;
  - 1.1.17.2 The Negotiated Lump Sum for all work described in the Notice to Proceed;
  - 1.1.17.3 A work description for each service Engineer, Consultants, or suppliers will perform under the Notice to Proceed;

- 1.1.17.4 The maximum cost and portion of the Negotiated Lump Sum associated with each work description;
- 1.1.17.5 Whether the work description represents a Basic or Additional Service;
- 1.1.17.6 The phase of the Project to which the work is attributable; and
- 1.1.17.7 Acceptance of the preceding Phase, when applicable.

1.1.18 **Project:** As identified in the title of this Contract.

1.1.19 **Project Schedule:** The schedule of project activities and events, showing initiation point, duration, and ending points using the form attached as Exhibit "B". The schedule will indicate time to be allowed for reviews by the City staff. The Project Schedule shall be drafted by Engineer in consultation with the Director, approved by the Director, and updated monthly at the time of invoice submittal.

1.1.20 **Raw Salary:** The actual cost of salary (annual base salary (excluding bonuses) divided by 2080) of an employee of Engineer for each hour during which such employee is actively performing services of benefit to the City and directly related to the Project. Maximum Raw Salary rates by employee category for the duration of the Contract are shown on Exhibit "C" attached hereto and, by reference, incorporated. The Raw Salary rates of Consultant shall not exceed the Raw Salary rates of Engineer without reasonable justification and prior written approval from the Director.

1.1.21 **Raw Salary Multiplier:** The Raw Salary Multiplier (when applied to Raw Salary) is 3.0 and includes all payment due Engineer for Raw Salary, salary burdens, benefits, insurance, overtime premium, payroll taxes, bonuses, overhead profit and clerical and management support, vacations, holidays and non-productive time of all kinds. The categories of service for which Raw Salary are payable are set out in Exhibit "C". All other categories of service are treated as overhead and are a part of the Raw Salary Multiplier. Payments to contract personnel and personnel employed through employment agencies are not subject to enhancement by the Raw Salary Multiplier.

1.1.22 **Reimbursable Expenses:** Reimbursable Expenses are limited to the following: (1) the ordinary and reasonable cost of copying, printing, postage, delivery services, long distance telephone calls and any additional expenses listed in Exhibit "A" incurred by the Engineer in the course of his performance of services under this Contract, including any sales tax Engineer is legally required to pay for Reimbursable Expenses; and (2) the ordinary and reasonable costs of travel including meals and lodging to and from points outside of Houston by representatives of the Engineer, not-to-exceed the amounts established under the City's then current travel reimbursement policy for its employees, if such travel is reasonably necessary to accomplish a task and authorized by the Director.

- 1.1.23 **Subcontractor (also "Consultant"):** The professional Consultant or other professional entity subcontracted by Engineer to provide a portion of engineering services required under the City-Engineer Contract.
- 1.1.24 **Supplemental Notice to Proceed:** A Notice to Proceed amending a preceding Notice to Proceed, which must be issued before services commence, containing the elements required for the original Notice to Proceed and the following:
- 1.1.24.1 A description of the changes in the scope or quality of work between the Supplemental Notice to Proceed and the preceding Notice to Proceed;
  - 1.1.24.2 Acceptance for work completed under the previous Notice to Proceed, when applicable;
  - 1.1.24.3 The percentage difference between the original Notice to Proceed for that Phase and all subsequent Supplemental Notices to Proceed; and
  - 1.1.24.4 The incremental cost of the services in the Supplemental Notice to Proceed.
- 1.1.25 **Work:** The entire construction required to be provided by the Construction Documents. The Work may constitute the whole or a part of the Project and may be one or more Construction Packages.

1.2 **Review of Existing Information**

- 1.2.1 Existing utility information, existing record drawings of previous projects, and existing survey information are readily available to the Engineer and the public. The Director shall provide access to such information. It is the responsibility of the Engineer to physically gather this information from available sources.
- 1.2.2 The Engineer shall review applicable existing information and develop independent recommendations based on the information.

**ARTICLE 2**  
**DUTIES OF ENGINEER**

- 2.1 **Services in General:** Engineer agrees to provide prompt and efficient professional services in relation to the design and management of the Project for the fees hereinafter specified. Engineer shall perform its work in accordance with the professional skill and care ordinarily provided by competent engineers, practicing in the same or similar locality and under the same or similar circumstances and professional license; and as expeditiously as is prudent considering the ordinarily professional skill and care of a competent engineer.
- 2.1.1 Engineer also agrees to perform such specific tasks as are set forth in Exhibit "A-1", when directed to do so by a Notice to Proceed, which is attached hereto and made a part hereof for all purposes. In the event of an inconsistency between these terms and conditions and the terms of Exhibit "A-1", the terms of Exhibit "A-1" shall control.
- 2.1.2 The Basic Services in this Contract are divided into three distinct phases:

- 2.1.2.1 Phase I - Preliminary Design;
- 2.1.2.2 Phase II - Final Design; and
- 2.1.2.3 Phase III - Construction Phase Services.
- 2.1.3 Preliminary and Final Designs shall conform to the latest City Design Manual as well as other design criteria that may be provided for this Contract by the Director.
- 2.1.4 The City may use a construction project manager as well as City personnel to review portions of the design; however, Engineer acknowledges that while others may suggest design ideas and components of the Project, such suggestions do not relieve Engineer of its professional responsibility to the City for complete design of the Project.
- 2.1.5 Engineer shall make periodic verbal or written reports and recommendations to the Director with respect to conditions, transactions, situations or circumstances encountered by Engineer relating to the services to be performed under this Contract and shall attend meetings determined to be necessary by the Director.
- 2.1.6 The Engineer shall reference the City's Project Title and City's Project WBS Numbers on all correspondence and submittals.
- 2.1.7 The Engineer shall manage the efforts of the Project team members and Consultants, assign manpower, delegate responsibilities, review work progress, monitor conformance to the scope regarding the budget and schedule, and otherwise direct the progress of the work.
- 2.1.8 Periodic meetings shall be held to review the progress of the engineering effort or to address other issues which may arise. The Director shall initiate meetings that include the Engineer and his Consultants, and if necessary, the Director and other applicable parties. The Engineer shall prepare and deliver meeting record memorandum of decisions and action items to the City within two business days after each meeting.
- 2.1.9 The Engineer shall notify the Director immediately of any deviation from the Scope of Services and/or Fee agreed to in this Contract. The Engineer shall not perform services outside of the Contract scope without a duly executed Amendment to this Contract.
- 2.1.10 The Engineer shall route all written communication with regulatory agencies, neighborhood associations, and City Council through the Director.
- 2.1.11 Engineer shall, upon written request, provide the Director with a written and/or electronic copy of materials prepared and/or referenced by Engineer or made available to it as a result of its performance under this Contract.
- 2.1.12 Engineer shall coordinate performance of the services hereunder with the Director and such other persons as the Director may specify.
- 2.1.13 Engineer shall perform the Basic Services or Additional Services required for any Phase of this Contract only upon receipt of a Notice to Proceed.
- 2.1.14 Engineer understands and acknowledges that the City may determine not to proceed with this Contract after completion of Engineer's services for any Notice to Proceed. Engineer understands and

acknowledges that the City may determine not to proceed with this Contract after completion of Engineer's services for either Phase I - Preliminary Design or Phase II - Final Design.

- 2.1.15 Engineer shall review Notices to Proceed to ensure the work descriptions specified within the Notices to Proceed and change order forms are adequately detailed. Engineer shall report to the Director any work description that does not adequately detail the services Engineer intends to provide. Engineer may not receive payment for work if the work description in a Supplemental Notice to Proceed does not appear different in scope from the work description in a previous Notice to Proceed.
- 2.1.16 Engineer shall coordinate the performance of services hereunder with the Director and governmental agencies and other bodies having jurisdiction over this Project or City consultants performing services related to the Project.
- 2.1.17 Engineer agrees that the Director may reduce the scope of services for any of the services identified in the Notice to Proceed or may divide the Project into separate Construction Packages by issuing a written notice describing: (1) the scope of the reduced Project or the scope of each Construction Package; and (2) the revised Time of Performance.
- 2.1.18 Engineer understands and acknowledges that this Contract contains the entirety of potential services the City may request from Engineer through issuance of Notices to Proceed and that the inclusion of any particular service in this Contract does not guarantee that Engineer will be requested to perform that service during the performance of this Contract.
- 2.1.19 Time is of the essence to the performance by the Engineer under this Contract.
- 2.1.20 Engineer shall identify all government agencies having regulatory jurisdiction and obtain authorization from the City prior to communication with the agencies.

## 2.2 Phase I -- Preliminary Design

- 2.2.1 Engineer shall submit to the Director, within ten days of the Notice to Proceed for Phase I, a Project Schedule reflecting firm dates for activities and reviews set forth therein. The Project Schedule shall commence on the date of the Notice to Proceed and be based upon the number of calendar days established in this Contract.
- 2.2.2 Once the Engineer has billed for the entire Limit on Phase I Compensation, Engineer shall complete the Phase I work for no further compensation.
- 2.2.3 Engineer shall submit 10 copies of the preliminary design and outline specification Documents to the Director in hard copy format and one electronic copy in the format requested by the Director.
- 2.2.4 Engineer shall attend preliminary conferences with officials from local, state, and federal agencies; utility companies; and other entities as necessary for the Project.
- 2.2.5 Engineer shall conduct a thorough utility plan review.
- 2.2.6 The Notice to Proceed for Phase I shall specify Phase I milestones and the Engineer's Raw Salary with corresponding classifications times the Raw Salary Multiplier, Reimbursable Expenses, and Consultant Subcontract Cost necessary to reach each milestone. Engineer shall perform all services necessary to complete each milestone.



2.2.7 After receiving the Notice to Proceed for Phase I, Engineer shall perform the following Phase I services during the Project:

2.2.7.1 Prepare a Preliminary Engineering Report (PER) which contains the findings and recommendations resulting from this Phase of work. Follow the guidelines in Exhibit A-1, at a minimum, and as further described in the Notice to Proceed;

2.2.7.2 Prepare and participate in the Technical Review Committee (TRC) meeting, as further described in Article 2 of this Contract; and

2.2.7.3 The Engineer shall submit a Project Schedule that contains actual dates, based on the date of the Notice to Proceed and the number of calendar days from Exhibit "B" milestones.

2.2.8 For projects requiring drainage and pavement improvements, the Engineer shall perform the following work as part of Basic Services:

2.2.8.1 Hydrologic and hydraulic analysis (drainage analysis) of the existing and proposed condition for the design rainfall and the extreme rainfall. Include off-site contribution drainage areas and overland flow path analysis. Variance from current City design criteria requires City approval;

2.2.8.2 Compare existing drainage system versus proposed drainage improvements in tabular and graphic profile including: hydraulic grade line; water surface elevation; ponded width; critical elevation (gutter); allowable maximum ponded elevation; allowable maximum ponded width; drainage area; 2-year peak outflow rate; and 100-year peak outflow rate;

2.2.8.3 Determine the hydraulic impact and mitigation options of the proposed drainage improvements to the existing drainage system HGL of an interconnected City system including but not limited to in-line system storage and in-line system restriction as part of these services;

2.2.8.4 Identify hydraulic impacts and mitigation options of the proposed drainage improvements to the receiving system of other governmental agencies including, but not limited to, detention basin, or low impact design (LID) method; and

2.2.8.5 Engineer understands and acknowledges that standard engineering practice typically requires multiple modeling iterations for development of a sound proposed condition and determination of the best viable level of service.

### 2.3 Phase II - Final Design

2.3.1 The Engineer shall submit to the Director within ten days of any Notice to Proceed for Phase II, the Project Schedule updated to reflect firm dates for the beginning and end of each activity set forth therein and the review dates for such activities.

2.3.2 The Engineer shall submit a detailed construction cost estimate at the 60%, 90%, and Bid Ready Drawings stages:

2.3.2.1 Engineer shall inform the Director of any adjustments to previous estimates of the Project construction cost which are indicated by market conditions or authorized changes in the

- scope and requirements of the Project within five business days of determining the adjustment; and
- 2.3.2.2 Engineer does not guarantee that bids will not vary from the final construction cost estimate.
- 2.3.3 The Engineer shall submit 12 copies of the recommendations, analyses and other deliverables identified in this Contract in hard copy format and one electronic copy in the format requested by the Director.
- 2.3.4 Agency Approvals and Signatures
- 2.3.4.1 The Engineer shall design the Project in compliance with the standard of care in the industry and the requirements of applicable laws, codes, and regulations, including the City of Houston Building Code. The Construction Documents shall conform to applicable federal, state, and City regulations.
- 2.3.4.2 The Engineer shall prepare the Documents necessary to obtain approval of governmental authorities having jurisdiction over the design or operation of the Project and all public and private utilities including pipeline transmission and railroad companies affected by the Project; obtain the signatures of representatives of such governmental authorities and public and private utilities; and obtain the signatures of City officials indicated by the City's standard title block for drawings.
- 2.3.4.3 The Engineer shall obtain required signatures from other governmental agencies, public utilities, and private utilities, which may impact the Project prior to final approval by the Department of Public Works and Engineering. Governmental agencies include, but are not limited to, Harris County and Harris County Flood Control District. Utility signatures include, but are not limited to, AT&T, Centerpoint Energy-Electric, Centerpoint Energy-Gas, and cable TV.
- 2.3.5 Additional Requirements
- 2.3.5.1 The Engineer is responsible for quality and completion of the Final Design as requested by the Director.
- 2.3.5.2 The Engineer shall specify the minimum acceptable performance and/or material standards associated with temporary facilities and structures that are determined necessary to implement the Project, that are potentially cause for significant disruption to local communities or businesses, and that are not solely for the convenience of the construction contractor.
- 2.3.5.3 The Engineer shall review results from Additional Services prior to submittal to the City and where applicable, incorporate this information into the Final Design documents. Such Additional Services may include, but not be limited to, survey, geotechnical, environmental, traffic control, storm water pollution prevention plans, street lighting plans, tree mitigation/planting plans, and special studies.
- 2.3.5.4 The Engineer shall incorporate the City Standard Details as applicable. The Engineer shall review each Standard Details and edit as necessary to suit Project-specific requirements and to meet the design intent of the Project. Revisions to the Standard Details shall not be incorporated based solely on Engineer's preference, but are subject to review and

acceptance by the Director. The Engineer shall notify the Director of all proposed changes to Standard Details and provide reasons for such proposed changes. The Engineer shall prepare additional nonstandard details necessary for bidding and construction of the Project.

2.3.5.5 The Engineer shall verify findings from Utility Plan Review with the results of the Survey Services (see Additional Services) and identify potential conflicts during construction. Proposed designs shall strive to avoid conflicts where physically and financially feasible. Relocations of private utilities shall be coordinated with the City of Houston as early in design process as possible.

2.3.5.6 The Engineer shall obtain the written approval for the necessary Right of Entry to the properties affected by the Project, using the City's designated form that is currently in use. The Engineer shall turn in all acquired Rights of Entry to the City before proceeding to Phase III, Construction Phase Services.

2.3.5.7 The Engineer shall prepare a construction duration estimate for the proposed project. The construction duration estimate shall be based upon tasks, subtasks, critical dates, milestones, and deliverables and shall consider the interdependence of the various items, and adjacent construction projects. Scheduling software or other available industry methodologies may be used to assist in the construction duration estimate preparation. The Engineer must substantiate the construction duration estimate to the City and assist the City in interpreting the estimate. The construction duration estimate shall be submitted no later than the Final Drawing and Specification milestone submittal.

2.3.5.8 For Water Plant projects, the Engineer shall perform the following work:

2.3.5.8.1 Develop valve and water plant shut-down sequences for situations in which construction could necessitate a partial or entire shut-down;

2.3.5.8.2 Plan sequences in coordination with the assigned project manager of the City Drinking Water Operations Branch of the Department of Public Works and Engineering Public Utilities Division ("Drinking Water Operations"), and include sequences in Bid Documents; and

2.3.5.8.3 Prepare a plan view showing locations of existing valves, and required working condition status to operate during construction.

2.3.5.9 For projects with paving and drainage improvements and other projects, as applicable:

2.3.5.9.1 Design of in-line system storage and or restriction shall be include in Basic Services; and

2.3.5.9.2 Floodplain Management Office approval is part of Basic Services.

## 2.3.6 Bidding Services

2.3.6.1 The Engineer shall prepare specifications in accordance with the Construction Specification Institute (CSI) standard format adopted by the City. The Engineer shall use the City Standard Specifications Table of Contents for Construction Documents as a guide for

organization of the Contract Documents. The City Standard Specifications (Divisions 00-16) are prepared to include the requirements, features, construction materials, and related items desired by the City based on the City's experience and needs. The Engineer shall review each Standard Specification and supplement as necessary to suit Project-specific requirements and to meet the design intent of the Project. Supplements to the Standard Specifications shall not be incorporated based solely on the Engineer's preference. Supplements are subject to review and acceptance by the Director. The Engineer shall prepare additional nonstandard specifications necessary for bidding and construction of the Project. Incorporate Guide Specifications necessary for bidding and construction of the Project.

- 2.3.6.2 The Engineer shall incorporate the CSI Division 00 front-end documents provided by the City into the Project specifications.
- 2.3.6.3 The Engineer shall prepare detailed Construction Documents based on the guidelines provided by the Director. The Construction Documents shall set forth recommended alternate bid items for the Project in a manner that permits ready evaluation and comparison.
- 2.3.6.4 The Engineer shall assist the City in conducting the pre-bid conference and submit meeting minutes within three business days.
- 2.3.6.5 The Engineer shall prepare necessary addenda to address issues or clarifications necessary for completion of the bidding process.
- 2.3.6.6 The Engineer shall furnish three copies of the tabulation of bids received with a written recommendation for the award of a construction contract, and submit within three business days after the bid opening.
- 2.3.6.7 The Engineer shall provide clarification, correct discrepancies, correct errors and omissions; assist the City in evaluating the bid proposals; and assist in the preparation of a construction contract between the City and the successful bidder.
- 2.3.6.8 The Engineer shall prepare a set of Conformed Drawings (as-bid drawings) within ten business days after bids are received. The Engineer shall furnish copies of the Construction Documents to the City within ten business days after bids are received, in the following numbers and formats: 10 full size sets; seven reduced size drawings (11 inches by 17 inches); eight sets of the project manual; and one compact disc of all associated reports. Conformed Drawings represent the Bid Documents revised to reflect all addenda changes made during the bid period.

#### 2.4 Phase III – Construction Phase Services

- 2.4.1 Upon issuance of a Notice to Proceed for Phase III, Engineer shall provide professional services during construction to assist in obtaining a completed Project in accordance with the purpose and intent of the Construction Documents.

- 2.4.2 The Engineer shall participate in pre-construction conferences and monthly construction progress meetings. When requested by the construction project manager, the Engineer shall attend other meetings related to project design in lieu of attending the monthly construction progress meetings.
- 2.4.3 The Engineer shall make visits to the Project site at appropriate intervals as construction proceeds to observe and provide a written construction site observation report on the progress and the quality of the executed Work.
- 2.4.3.1 The frequency of these visits should be monthly, after the construction contractor has mobilized and is constructing the proposed improvements. Site visits should occur during times when the construction contractor is actively performing major construction activities. Site visits should be coordinated with the construction project manager. These monthly visits shall be combined with any site visits made to resolve field problems relating to the construction or monthly progress meetings.
- 2.4.3.2 The personnel provided by Engineer to perform site visits shall be experienced in the administration of construction contracts and shall be under the supervision of a professional engineer registered by the State of Texas. Supporting personnel shall be provided from the Project design team when specialized knowledge of the Project design is required.
- 2.4.3.3 Site Observation Reports
- 2.4.3.3.1 The report shall be included in the Engineer's monthly invoice, unless otherwise approved by the Director.
- 2.4.3.3.2 The report shall be in writing, shall include all referenced supporting documents, and shall advise the Director of deviations from the Construction Documents, the contractor's construction schedule, or other items as set forth below, observed by or brought to the attention of the Engineer at the time of the Site Observation.
- 2.4.3.3.3 Provide percentage of completion of the Work and an overall map, showing complete and incomplete areas.
- 2.4.3.3.4 The report shall be submitted to the construction project manager within three business days after the site visit.
- 2.4.3.3.5 The following guidelines are intended to provide consistency when preparing the required Construction Site Observation Reports. These guidelines are intended to be the minimum requirements and do not replace sound professional judgment.
- 2.4.3.3.5.1 A brief narrative of the type of construction activities occurring at the time of the site visit is to be prepared. The narrative should include a description of the progress to date and the general quality of the ongoing work (based upon the Contract Documents). The following items should be observed and reported for each project site:

- 2.4.3.3.5.1.1 The date and time period on the job site;
- 2.4.3.3.5.1.2 The station and street work in progress or facility location observed;
- 2.4.3.3.5.1.3 The description of work should include the type of activities the construction contractor was performing (e.g. excavating, backfilling, paving, etc.), approximate size of crew, number and type of equipment in use (e.g. 1 back hoe, 3 dump trucks, etc.), and where these activities were occurring (e.g. Along Misty Valley, between Foggy Lane and Rainy Day);
- 2.4.3.3.5.1.4 Whether the work is in general conformance with the Contract Documents or report the observed deficiencies;
- 2.4.3.3.5.1.5 Identify whether the traffic control plan is being followed by the construction contractor or report the observed deficiencies and the impact the construction is having on traffic;
- 2.4.3.3.5.1.6 Whether NPDES storm water pollution prevention plan (SWPPP) is being followed by the construction contractor or report the observed deficiencies;
- 2.4.3.3.5.1.7 Whether trench safety system is in compliance with the construction contractor's submittal or report the observed deficiencies;
- 2.4.3.3.5.1.8 Note what discussions were held with the inspector, other City personnel, or construction contractor;
- 2.4.3.3.5.1.9 Note what type of progress construction contractor has made since the last site visit;
- 2.4.3.3.5.1.10 To assist in the description of the work activities, the use of color photographs is required. Two photographs are to be furnished. Include a "byline" with each photograph. The byline should describe the activity, time and place; and
- 2.4.3.3.5.1.11 Report any work that has been discovered that have not been approved by the Director or any

work that deviates from the approved submittal or Contract Documents.

2.4.3.3.5.2 Unsafe conditions and major work deficiencies observed should be immediately brought to the attention of the City Inspector and the construction project manager. Document such notifications on the report.

2.4.3.3.5.3 Report and color photographs are to be sent to the design project manager (one copy) and construction project manager (one copy).

2.4.4 The Engineer shall review and take appropriate action upon the shop drawings, samples, and other submissions furnished by the construction contractor and submitted to Engineer by the City. Engineer shall determine if the shop drawings, samples, and other submissions conform to the requirements of the Construction Documents. Engineer shall notify the Director if the shop drawings, samples or other submissions do not conform to the Construction Documents. Such action(s) shall be taken within 14 calendar days of receipt from the City unless approved in advance by the Director. Engineer shall maintain a log of all construction contractor submittals which shall include the submittal date, the action taken, and the date returned.

2.4.5 The Engineer shall prepare supporting data and provide other services (including revisions to Construction Documents) at no charge to the City in connection with change orders when such change orders are required either: (1) to make clarifications or to correct discrepancies, errors, or omissions in the Construction Documents; or (2) to conform the Construction Documents to the requirements of all applicable laws, codes, and regulations, including the City of Houston Building Code (which is expressly made applicable to this Project) as it was in effect at the time of execution of this Contract.

2.4.6 The Engineer shall review laboratory, shop, and mill tests of material and equipment for general conformance with Contract Document requirements and report to the Director in writing on such matters.

2.4.7 The Engineer shall provide design clarifications and recommendations to assist the City in resolving field problems relating to the construction. Requests for Information (RFIs) will normally be generated by the construction contractor when a situation or condition is anticipated or encountered in the field that may not be fully addressed in the construction Contract Documents. RFIs are to be reviewed, a complete and fully responsive written answer provided, and returned to the construction project manager with a copy to the design project manager within five business days depending upon the criticality and impacted cost of the condition as described in the RFI. Engineer's response to RFI's concerning proposed modifications or unforeseen conditions shall only address the technical and design aspect of the issue. Any cost or schedule impacts shall be addressed to the construction contractor by the construction project manager.

2.4.8 The Engineer shall evaluate construction contractor change and cost proposals and substitutions and recommend to the City to either approve or disapprove the construction contractor's proposal or substitution, unless instructed not to do so by the Director.

- 2.4.9 No less than 30 days and no more than 45 days before the expiration of the correction period established by the Construction Documents, Engineer, in company with the Director, shall observe the construction site. Within 14 days after such observation, Engineer shall furnish the Director with a written report enumerating items which require repair or replacement as provided under the correction period provisions of the Construction Documents.F
- 2.4.10 To avoid misunderstandings or questions, Engineer understands and agrees that the Director shall have the responsibility for the general administration of the construction contract. Accordingly, Engineer shall not have the authority or responsibility to issue direct instructions to the construction contractor, to reject work done by the construction contractor, or to require special inspections or tests. Engineer, however, shall provide continuing counsel to the Director throughout the construction of the Project.
- 2.4.11 Within 30 calendar days of receipt of construction contractor's "as-built" drawings, the Engineer shall prepare and submit the Record Drawings to the design project manager. The Record Drawings shall become the property of the City and shall show significant changes made in the Work by the construction contractor during the construction of the Project. Record Drawings shall be prepared on the original as-bid drawings in the format specified by the Director at the time of execution. The Engineer shall prepare the record documents based solely upon the marked-up "as-built" drawings, addenda, revisions, change orders and other data furnished by the City and the construction contractor. The "as-built" drawings provided by the construction contractor shall clearly depict:
- 2.4.11.1 Any deviations from the proposed utilities alignments shown in the as-bid drawings;
  - 2.4.11.2 Actual alignments of utilities if different from alignment shown in the as-bid drawings;  
and
  - 2.4.11.3 The presence of existing utilities that are either not shown or shown incorrectly in the as-bid drawings should be accurately depicted.
  - 2.4.11.4 Other revisions to be shown include:
    - 2.4.11.4.1 PPCM (Potentially Petroleum Contaminated Material) encounters;
    - 2.4.11.4.2 Lengths for proposed utilities that differ from that shown in the as-bid drawings;
    - 2.4.11.4.3 Deviations from proposed tunneling lengths;
    - 2.4.11.4.4 Existing pavement composition, i.e. "unreinforced concrete with asphalt overlay";
    - 2.4.11.4.5 The name of the manufacturer for installed valves that are 20 inches and larger in diameter;
    - 2.4.11.4.6 Deviations from proposed restrained joint lengths for water line project only;
    - 2.4.11.4.7 Identify type of pipe material installed;
    - 2.4.11.4.8 Revisions due to construction contractor's Requests for Information;  
and
    - 2.4.11.4.9 Other changes made by the construction contractor.



- 2.4.11.5 Project RFI's (construction contractor's Request for Information) should be reviewed to ensure the accuracy of the record drawings.
  - 2.4.11.6 Changes shall be made with India ink on original drawings. Actual alignments of utilities shall be shown. Incorrectly shown utilities shall be crossed out and drawn correctly. Inaccurate callouts shall have a line drawn through them. Revised callouts shall be hand-lettered.
  - 2.4.11.7 All record drawing revisions shall be accompanied by a revision number contained within a triangle. The revision shall then be dated and initialed in the revision block. Any revisions made by, or under the supervision of, an Engineer other than the one whose seal appears on the subject drawing shall be signed and sealed by the Professional Engineer responsible for the revision.
- 2.4.12 For contracts that require the construction contractor to service, calibrate, maintain or provide periodic site inspections for a period of one year after the date of substantial completion, the Engineer shall accompany the construction contractor and construction project manager during such visits. For projects involving startup, testing, calibration, training and operation of facilities or systems, the Engineer shall assist the construction project manager in accomplishing such tasks in accordance with the Contract Documents.
- 2.4.13 When requested by the Director, the Engineer shall visit manufacturers' facilities in order to prequalify major products and materials to be incorporated into a construction contract or verify manufacturers' compliance with the Contract Documents. The Engineer shall accompany City staff or may travel unaccompanied, as approved by the Director. A written report shall be generated to document the results of the trips. Cost for travel shall be considered a Reimbursable Expense.
- 2.5 **Additional Services:** Engineer shall perform the Additional Services specified below if and when the Director authorizes such services.
- 2.5.1 Survey Services
    - 2.5.1.1 Perform in accordance with the City Design Manual and other City design requirements as designated in writing by the Director.
    - 2.5.1.2 Where new City of Houston monumentation is required in accordance with the City Design Manual, provide separate cost for task under surveying Additional Services.
  - 2.5.2 Drug Detection and Deterrence. Conduct random, reasonable suspicion, and post-accident drug testing necessary to comply with this Contract.
  - 2.5.3 Geotechnical Investigation. Perform in accordance with the City Design Manual and other City requirements as designated in writing by the Director.
  - 2.5.4 Environmental Site Assessment. Perform in accordance with the City Design Manual and other City requirements as designated in writing by the Director.
  - 2.5.5 Special Licenses and Permits (Payment)

- 2.5.5.1 The actual cost of special licenses and permits, including required inspection fees, shall be reimbursed by the City.
- 2.5.5.2 This Additional Service does not include engineering work associated with Basic Services.
- 2.5.6 Traffic Control Plan (TCP)
  - 2.5.6.1 The specific traffic control work consists of the completed TCP, appropriate specifications and general notes, and traffic control construction cost estimates.
  - 2.5.6.2 The TCP shall show detailed construction sequences and the necessary traffic control phases, complete with all barricades, signing, striping, delineation, detours, temporary traffic signals and any other devices, to protect the traveling public and provide safety to the construction forces.
  - 2.5.6.3 The TCP should be accomplished with the least inconvenience to the traveling public consistent with expeditious completion of the Project in time and costs.
  - 2.5.6.4 Construction Sequencing and TCP shall be in accordance with general traffic engineering principles and practices governing traffic control during construction as prescribed by the guidelines of the "Texas Manual on Uniform Traffic Control Devices" (TMUTCD), and City of Houston requirements.
  - 2.5.6.5 Standards and Guidelines
    - 2.5.6.5.1 The construction of the Project should be scheduled or sequenced to minimize the down time for the construction contractor and to maximize the utilization of space for the travel ways. Sequencing is accomplished by partitioning the Project into construction phases, which may be further segmented into steps. A "phase" is a major portion of the construction, scheduled in a logical progression toward Project completion. A "step" is a minor portion of the construction, subordinate to a particular phase.
    - 2.5.6.5.2 The TCP should clearly distinguish areas of construction with areas of traffic for each phase. The work zone is also to be distinguished from the actual construction limits.
    - 2.5.6.5.3 Maintain minimum emergency travel lane width of ten feet at all times. If space is not available within the existing roadway, temporary widening of the pavement section may be necessary to provide a minimum 10-foot emergency travel lane.
    - 2.5.6.5.4 The TCP should contain the following basic elements:
      - 2.5.6.5.4.1 Project approach signing;
      - 2.5.6.5.4.2 Phasing overview (as applicable);
      - 2.5.6.5.4.3 Detailed plans for each phase of construction and any designated steps; and
      - 2.5.6.5.4.4 Necessary TCP details, including appropriate City standards (Barricade & Construction, etc.), typical lane closures, and intersection details.

2.5.6.6 Drawings

- 2.5.6.6.1 Engineer shall verify and show existing field conditions of roadways and access to adjacent properties.
- 2.5.6.6.2 Engineer shall show traffic control devices and location of traffic flow, indicated by direction arrows, for each phase of the Project.
- 2.5.6.6.3 Engineer shall define construction areas by appropriate identifications, such as cross-hatching. Show all barricades, traffic signing, traffic signal changes, detour routing, and special intersection treatment details.
- 2.5.6.6.4 Engineer shall show only roadways that are existing or to be constructed under the Project. Do not show roadways that have been removed or that will be constructed in future contracts.
- 2.5.6.6.5 Engineer shall prepare cross sections for major thoroughfares and for each roadway variation showing the traffic lanes, construction pavement markings, delineators, barriers, buffer zone for barrels and concrete traffic barriers (CTBs), pavement drop-off, and construction details.
- 2.5.6.6.6 Engineer shall pictorially represent all construction signing and label with appropriate identification number as shown in TMUTCD. Show and identify all other traffic control devices in the plans and cross sections.
- 2.5.6.6.7 Engineer shall use a "typical" TCP detail for portions of the Project wherever possible.
- 2.5.6.6.8 Engineer shall prepare traffic control construction quantities and estimate of construction cost.
- 2.5.6.6.9 Engineer shall add general notes to the drawings or to the City's Standard General Note Drawing, as required for clarity.
- 2.5.6.6.10 Engineer shall include the City of Houston Standard Specifications for Traffic Control, and supplement as required.

2.5.6.7 For paving projects, include the following.

- 2.5.6.7.1 Engineer shall show temporary traffic control measures required during construction, such as temporary adjustments to traffic signal configurations, revisions to signal timing sequences, installations of contractor-supplied equipment and conduit to provide for proper signal operation, and parking restriction signs in areas where parking is not currently restricted but added roadway capacity is required.
- 2.5.6.7.2 Where substantial roadway capacity is being lost during construction, the Engineer shall show placement of contractor-supplied changeable message signs with proposed messages to encourage use of alternative routes by the traveling public.

- 2.5.7 Storm Water Pollution Prevention Plan (SWPPP). Perform in accordance with the City Design Manual and other City requirements.
- 2.5.8 Existing Conditions Survey and Analysis
  - 2.5.7.1 The Engineer shall perform a survey and analyses of the existing conditions at designated locations. The Engineer shall submit the results of this work in a separate report.
  - 2.5.7.2 This special service is used where a separate deliverable is desired, and where the survey/analysis is not directly related to the scope of the new work, thus the engineering cost would not be included in the Basic Services.
- 2.5.9 Street Lighting Plans
  - 2.5.9.1 For new roadway construction or complete roadway reconstruction, it is the City of Houston's practice to upgrade street lighting along all roadways to current recommended levels as part of the Capital Improvement Projects.
  - 2.5.9.2 Proposed Street Lighting locations shall be provided at 1"=40' scale (minimum) consistent with project overall layouts.
  - 2.5.9.3 Design consultant will prepare the lighting layout, spacing the streetlights at a distance of approximately 200 feet  $\pm$  10% for driveway/utility conflicts. For roadway sections less than four lanes, stagger the streetlights along both sides of the roadway, maintaining the 200 foot  $\pm$  10% spacing. The design should include any existing street lighting and generally begin layouts at intersections working away from them.
  - 2.5.9.4 Street Lighting plans shall show the proposed street lighting locations, electrical conduits, pull boxes and power feed locations provided by CenterPoint Energy in accordance with published CenterPoint Energy specifications.
  - 2.5.9.5 The approved layout will be submitted to CenterPoint Energy for review and cost estimate preparation for temporary or new fixtures. Conduit and pull box costs shall be included in the Engineer's Project construction cost estimate.
  - 2.5.9.6 Street Lighting Plans shall include a table showing the locations of the existing and proposed streetlights by station number.
- 2.5.10 Tree Protection, Mitigation, and Planting Plan. Perform in accordance with the City Design Manual and other City requirements, as designated in writing by the Director.
- 2.5.11 Traffic Signals. Perform in accordance with the City Design Manual and other City requirements, as designated in writing by the Director.
- 2.5.12 Impact Analysis and Mitigation Report for projects requiring drainage and pavement improvements.
  - 2.5.12.1 Perform Impact Analysis and Mitigation Report when authorized by the City as designated in writing by the Director.
  - 2.5.12.2 A separate hydraulic analysis and report as required by government agencies having regulatory jurisdiction.
  - 2.5.12.3 Includes quantification of existing and proposed outflows and water surface elevation at outfall to the receiving system.

- 2.5.13 Design of detention pond or low impact development. For mitigation of adverse impacts; perform in accordance with the City Design Manual and other City requirements as designated in writing by the Director.
- 2.5.14 Technical Review Committee (TRC) Meeting
- 2.5.14.1 The Engineer shall attend a Pre-TRC meeting, as scheduled by the Director.
- 2.5.14.1.1 The purpose of the Pre-TRC is to allow the Director to review the preliminary design, presentation materials, and recommendations.
- 2.5.14.1.2 The Engineer shall have completed and submitted the Preliminary Engineering Report (PER) prior to the Pre-TRC meeting.
- 2.5.14.1.3 As part of the Pre-TRC, the Engineer shall prepare a Microsoft PowerPoint presentation, a TRC agenda and an executive summary showing the alternatives, recommendations, and estimated construction and project costs.
- 2.5.14.2 The Engineer will have two weeks to revise the report and presentation based on comments from the Pre-TRC. Once revisions have been made, the Engineer shall submit to the Director one copy of the report with all exhibits, maps, and computer model output listed in other parts of this Contract. The Executive Summary from the report will be included with the notice of TRC distribution.
- 2.5.14.3 Upon successful completion of the Pre-TRC meeting, the Engineer shall attend a TRC Meeting.
- 2.5.14.3.1 The purpose of the TRC meeting is to present the preliminary engineering recommendations to the City's Technical Review Committee for approval to proceed to Final Design.
- 2.5.14.3.2 The Engineer will provide equipment for preparation and presentation of the TRC meeting.
- 2.5.14.3.3 Members of the TRC are City staff and may include senior managers representing engineering, operations, maintenance, and construction divisions.
- 2.5.14.3.4 The TRC will evaluate the Engineer's recommendations and approve or modify as appropriate.
- 2.5.14.3.5 Within three business days following the TRC Meeting, the Engineer shall submit a summary of the decisions and action items from the meeting, and a revised construction cost estimate.
- 2.5.14.3.6 At the conclusion of the TRC, Engineer shall:
- 2.5.14.3.6.1 Submit a revised estimate of probable construction cost, based on the outcome of the TRC;

- 2.5.14.3.6.2 Revise the PER in response to the Technical Review Committee's record of decisions and action items and furnish three final copies of the PER; and
- 2.5.14.3.6.3 Submit final PER in PDF Format on a CD in a single file with a Table of Contents.

2.5.14.3.7 Upon acceptance by the TRC of the need to acquire additional right-of-way or easements for the project, the Director may issue to the Engineer a Notice to Proceed for the preparation of right-of-way and easement documents. These documents shall be delivered to the Director within the time specified in the Notice to Proceed.

#### 2.5.15 Independent Quantity Take-Off

2.5.15.1 Engineer shall perform the following service(s).

- 2.5.15.1.1 Have an independent third party (Estimator) perform a quantity take-off from the Bid Ready Drawings and Specifications. Engineer may provide other documents that will assist the Estimator to complete the task; however, these documents shall in no way compromise the independent judgment of the Estimator. Estimator shall identify each bid item and prepare the quantities for each bid item in accordance with the City of Houston's Standard Construction Specifications and/or Custom Specifications, as applicable, that is part of the detailed construction cost estimate.
- 2.5.15.1.2 Engineer is to review the quantity take-off with the Estimator and resolve all discrepancies in the bid items and quantities.
- 2.5.15.1.3 Engineer is to submit a signed letter confirming that an independent quantity take-off was performed, identifying the independent third party who performed the quantity take off, and certifying the accurateness of the bid items and quantities that are included in the detailed construction cost estimate.

#### 2.5.16 Other Additional Services

- 2.5.16.1 Provide the services of a Consultant to perform subsurface investigations, including performance of test borings, soil samples, and other foundation investigations, laboratory analyses of the samples, and engineering analyses. Engineer or the Consultant shall prepare a detailed report of all findings, and Engineer shall deliver to the Director two bound copies of the report and an electronic copy in the form requested by the Director.
- 2.5.16.2 Prepare special studies and reports, such as environmental Documents (including representation and testimony at hearings and community meetings), grant applications, etc.
- 2.5.16.3 Provide the services of an independent cost estimator as a consultant to make a comprehensive construction cost estimate for the Project, in a form satisfactory to the

- Director. The independent cost estimate shall be in addition to the cost estimates prepared by Engineer.
- 2.5.16.4 Provide value engineering services including the review of other engineers, either within the same organization or in other firms, to determine whether a proposed solution is optimum and, if not, to suggest a better approach for meeting the Project's functional and financial criteria.
- 2.5.16.5 Provide a scale model of the Project.
- 2.5.16.6 Reproduce Construction Documents, reports, and other materials, other than those reproductions included in the Basic Services, and excluding reproductions for the office use of Engineer and Engineer's Consultants.
- 2.5.16.7 Provide, in the event of termination of Engineers services pursuant to this Contract, such services as are reasonable and necessary for preserving partially finished work products or for the recording of work products in a particular manner (including the making of record prints of drawings, etc.).
- 2.5.16.8 Provide construction management services on the site during Project construction.
- 2.5.16.9 During the Final Design or Construction Phase, make revisions to Construction Documents, prepare addenda, or prepare change orders to reflect Project scope changes requested by the Director, required to address changed conditions or change in direction previously approved by the Director, mandated by changing governmental laws, or necessitated by City's acceptance of substitutions proposed by the construction contractor.
- 2.5.16.10 Prepare supporting data and other services in connection with change orders, other than those change orders and related services included in Section 2.4 of Article 2 of this Contract.
- 2.5.16.11 Consult with the City concerning replacement of any construction work damaged by fire or any other causes and furnish professional services as may be required in connection with the replacement of such work.
- 2.5.16.12 Prepare or obtain the services of a Consultant to prepare Operation and Maintenance (O & M) Manuals.
- 2.5.16.13 Provide, in the event the Project construction exceeds the time stated in the Construction Documents by more than 30 days, the continuing services required to be done by Engineer during construction of the Project.
- 2.5.16.14 Prepare for, present to, and attend preliminary conferences with the City's Technical Review Committee, as requested by the Director. Engineer shall make such revisions to the preliminary design as may be required by the Director as a result of Committee recommendations. In addition to the foregoing, Engineer shall attend all other meetings as required by the Director.

- 2.5.16.15 Perform services in the event the Basic Services are suspended by the Director for a period exceeding 12 months, and the Engineer provides evidence satisfactory to the Director that additional effort is necessary to resume the Basic Services.
- 2.5.16.16 Unless instructed otherwise by the Director, cooperate fully with surety's representative in the event of construction contractor default; permit surety to copy all relevant documents at surety's expense.
- 2.5.16.17 Provide any Additional Services or other design services related to the Project and not otherwise included in the Basic Services or Additional Services as requested by the Director.
- 2.5.16.18 Travel to points outside Houston and its extraterritorial jurisdiction, if such travel is reasonably necessary to accomplish a task under this Contract and is authorized in writing by the Director. Travel costs shall include common carrier fares, ground transportation expenses and parking fees, and for overnight trips, the costs of lodging and meals and shall not exceed the appropriation limits of this Contract.

2.6 **Time of Performance:** Engineer shall perform the Basic Services in accordance with the following:

- 2.6.1 Phase I - Preliminary Design - N/A calendar days for each Construction Package separately;
- 2.6.2 Phase II - Final Design - N/A calendar days for each Construction Package separately;
- 2.6.3 Phase III - Construction Phase Services shall be completed at reasonable intervals in conjunction with the progress of the Project construction and for the period of construction time stated in the Construction Documents;
- 2.6.4 Time taken for review of Phase I and Phase II designs by City personnel shall be in addition to the calendar day periods specified above. In the preparation of the Project Schedule, Engineer shall allow at a minimum, 21 calendar days for City review of Phase I, and 21 calendar days for City review of Phase II; and
- 2.6.5 Upon written request of Engineer to the Director and the Director's approval, the City shall grant time extensions during each Phase for any delays caused by the City or other agencies with which the services must be coordinated and over which Engineer has no control.

2.7 **Engineer's Invoices**

- 2.7.1 Unless instructed otherwise in writing by the Director, Engineer must invoice the City for all Phase I amounts plus all Phase I-related Additional Services and Reimbursable Expenses before the Director issues a Notice to Proceed for Phase II.
- 2.7.2 Unless instructed otherwise in writing by the Director, Engineer must invoice the City for all Phase II lump sum payments plus all Phase II-related Additional Services and Reimbursable Expenses before the Director issues a Notice to Proceed for Phase III.



- 2.7.3 The amounts set out in the Phases I, II, and III Notices to Proceed shall constitute Engineer's total compensation under the Contract for a Construction Package unless the Director requests in writing an Additional Service or Reimbursable Expense not related to any of the above phases.
- 2.7.4 If Director and Engineer do not agree to the lump sum amount for such Construction Package, then the Director may send notice to the Engineer deleting such Construction Package from the Contract.
- 2.7.5 To receive fees for Phase I Services, Engineer shall submit copies of original invoices showing the corresponding Phase I Services and associated costs performed for each Construction Package and not previously invoiced. The invoice must include itemizations supporting the costs included. The itemization shall include, where applicable:
- 2.7.5.1 A breakdown of the type and cost of each item included within the definition of Reimbursable Expenses;
- 2.7.5.2 A breakdown of the individual expenditures allowable as travel costs in the definition of Reimbursable Expenses;
- 2.7.5.3 The actual invoice cost of Consultant Subcontract Cost plus Consultant Markup, including a copy of the Consultant's invoice;
- 2.7.5.4 The number of hours expended by Engineer's employees times Raw Salary times Raw Salary Multiplier for each Construction Package and upon request by the Director a copy of employee time sheets;
- 2.7.5.5 Reasonable costs of contract personnel and personnel employed through employment agencies plus the Consultant Markup; and
- 2.7.5.6 A breakdown of the work performed in the Construction Package and a percent of the total that is completed.
- 2.7.6 To receive fees for Additional Services, Engineer shall submit copies of original invoices showing the corresponding Additional Services performed and not previously invoiced. The invoice must include itemizations supporting the costs included. The itemization shall include, where applicable:
- 2.7.6.1 A breakdown of the type and cost of each item included within the definition of Reimbursable Expenses;
- 2.7.6.2 A breakdown of the individual expenditures allowable as travel costs in the definition of Reimbursable Expenses;
- 2.7.6.3 The actual invoice cost of Consultant Subcontract Cost plus Consultant Markup, including a copy of that the Consultant's invoice;
- 2.7.6.4 The number of hours expended by Engineer's employees times the Raw Salary times the Raw Salary Multiplier for each Additional Service and upon request by the Director a copy of employee time sheets;
- 2.7.6.5 Reasonable contract personnel cost of personnel and personnel employed through employment agencies, plus Consultant Markup; and
- 2.7.6.6 A reference to the work description in the applicable Notice to Proceed that authorized the item.

- 2.7.7 With each monthly invoice Engineer shall submit a copy of the updated Project Schedule, a brief narrative of the services performed in the preceding month, and a list of the planned activities for the following month. Any request for modification of the approved Project Schedule shall be submitted by Engineer in writing for the Director's consideration.
- 2.7.8 Claims for Additional Services shall be submitted for payment within a maximum of 60 days from the date of completion of the Additional Service.
- 2.7.9 Upon request of the Director, Engineer shall submit reports to the Director for informational purposes, showing all of the information set out in this Section, although such information shall not affect the method by which Engineer is paid.

**2.8. Insurance**

- 2.8.1 **Risks and Limits of Liability.** Contractor shall maintain the following insurance coverages in the following amounts:

COVERAGE	LIMIT OF LIABILITY
Workers' Compensation	<ul style="list-style-type: none"> <li>• Statutory for Workers' Compensation</li> </ul>
Employer's Liability	<ul style="list-style-type: none"> <li>• Bodily Injury by Accident \$500,000 (each accident)</li> <li>• Bodily Injury by Disease \$500,000 (policy limit)</li> <li>• Bodily Injury by Disease \$500,000 (each employee)</li> </ul>
Commercial General Liability: Bodily and Personal Injury; Products and Completed Operations Coverage	<ul style="list-style-type: none"> <li>• Bodily Injury and Property Damage, Combined Limits of \$1,000,000 each Occurrence, and \$2,000,000 aggregate</li> </ul>
Automobile Liability	<ul style="list-style-type: none"> <li>• \$1,000,000 combined single limit for (1) Any Auto or (2) All Owned, Hired, and Non-Owned Autos</li> </ul>
Professional Liability	<ul style="list-style-type: none"> <li>• \$1,000,000 per occurrence; \$2,000,000 aggregate</li> </ul>
Excess Liability applicable to CGL, and Auto	<ul style="list-style-type: none"> <li>• \$1,000,000</li> </ul>
<b>Aggregate Limits are per 12-month policy period unless otherwise indicated.</b>	

- 2.8.2 **Insurance Coverage.** At all times during the term of this Contract and any extensions or renewals, Contractor shall provide and maintain insurance coverage that meets the Contract requirements. Prior to beginning performance under the Contract, at any time upon the Director's request, or each time coverage is renewed or updated, Contractor shall furnish to the Director current certificates of insurance, endorsements, all policies, or other policy documents evidencing adequate coverage, as necessary. Contractor shall be responsible for and pay (a) all premiums and (b) any claims or losses to the extent

of any deductible amounts. Contractor waives any claim it may have for premiums or deductibles against the City, its officers, agents, or employees. Contractor shall also require all subcontractors or consultants whose subcontracts exceed \$100,000 to provide proof of insurance coverage meeting all requirements stated above except amount. The amount must be commensurate with the amount of the subcontract, but no less than \$500,000 per claim.

2.8.3 **Form of Insurance.** The form of the insurance shall be approved by the Director and the City Attorney; such approval (or lack thereof) shall never (a) excuse non-compliance with the terms of this Section, or (b) waive or estop the City from asserting its rights to terminate this Contract. The policy issuer shall (1) have a Certificate of Authority to transact insurance business in Texas, or (2) be an eligible non-admitted insurer in the State of Texas and have a Best's rating of at least B+, and a Best's Financial Size Category of Class VI or better, according to the most current Best's Key Rating Guide.

2.8.4 **Required Coverage.** The City shall be an Additional Insured under this Contract, and all policies, except Professional Liability and Worker's Compensation, shall explicitly name the City as an Additional Insured. The City shall enjoy the same coverage as the Named Insured without regard to other Contract provisions. Contractor waives any claim or right of subrogation to recover against the City, its officers, agents, or employees, and each of Contractor's insurance policies except professional liability must contain coverage waiving such claim. Each policy, except Workers' Compensation and Professional Liability, must also contain an endorsement that the policy is primary to any other insurance available to the Additional Insured with respect to claims arising under this Contract. If professional liability coverage is written on a "claims made" basis, Contractor shall also provide proof of renewal each year for two years after substantial completion of the Project, or in the alternative: evidence of extended reporting period coverage for a period of two years after substantial completion, or a project liability policy for the Project covered by this Contract with a duration of two years after substantial completion.

2.8.5 **Notice.** CONTRACTOR SHALL GIVE 30 DAYS' ADVANCE WRITTEN NOTICE TO THE DIRECTOR IF ANY OF ITS INSURANCE POLICIES ARE CANCELED OR NON-RENEWED. Within the 30-day period, Contractor shall provide other suitable policies in order to maintain the required coverage. If Contractor does not comply with this requirement, the Director, at his or her sole discretion, may immediately suspend Contractor from any further performance under this Agreement and begin procedures to terminate for default.

2.9 **INDEMNIFICATION.** ENGINEER AGREES TO AND SHALL, TO THE EXTENT PERMITTED BY TEXAS LOCAL GOVERNMENT CODE §271.904, INDEMNIFY, AND HOLD THE CITY, ITS AGENTS, EMPLOYEES, OFFICERS, AND LEGAL REPRESENTATIVES (COLLECTIVELY, THE "CITY") HARMLESS FOR ALL CLAIMS, CAUSES OF ACTION, LIABILITIES, FINES, AND EXPENSES (INCLUDING, WITHOUT LIMITATION, ATTORNEYS' FEES, COURT COSTS, AND ALL OTHER DEFENSE COSTS AND INTEREST) FOR INJURY, DEATH, DAMAGE, OR LOSS TO PERSONS OR PROPERTY ARISING AS A RESULT OF ENGINEER'S AND/OR ITS AGENTS', EMPLOYEES', OFFICERS', DIRECTORS', CONSULTANTS', OR SUBCONTRACTORS' ACTUAL OR ALLEGED NEGLIGENCE OR INTENTIONAL ACTS OR OMISSIONS IN

CONNECTION WITH ITS PERFORMANCE UNDER THIS AGREEMENT, WHETHER ENGINEER IS IMMUNE FROM LIABILITY OR NOT. ENGINEER SHALL INDEMNIFY AND HOLD THE CITY HARMLESS DURING THE TERM OF THIS AGREEMENT AND FOR FOUR YEARS AFTER THE AGREEMENT TERMINATES. THE INDEMNITY SHALL APPLY WHETHER OR NOT THE EVENT IS CAUSED BY THE CONTRIBUTORY NEGLIGENCE OF THE CITY.

- 2.10 **Ownership of Documents:** Engineer shall grant and assign and hereby does grant and assign to the City all right, title, interest and full ownership worldwide in and to any work, invention and all Documents, including Construction Documents, or any modifications or improvements to them, and the copyrights, patents, trademarks, trade secrets, source and object codes and any other possessory or proprietary rights therein, that are discovered, conceived, developed, written or produced by the Engineer, its agents, employees, contractors and subcontractors pursuant to this Contract (collectively, the "Works"), to have and to hold the same unto the City absolutely. This right of ownership shall include the City's ability to modify, sell, or license all computer programs, including all access to programming codes necessary to do so.
- 2.10.1 Engineer agrees that neither it nor any of its agents, employees, contractors or subcontractors shall have any right to assert or establish a claim or exercise any of the rights embodied in any copyrights, patents, trademarks, trade secrets and any other possessory or proprietary rights related to the Works. If requested by the Director, the Engineer shall place a conspicuous notation upon any such Works which indicates that the copyright, patent, trademark or trade secret thereto is owned by the City of Houston.
- 2.10.2 Engineer shall execute all documents required by the Director to further evidence such assignment and ownership. Engineer shall cooperate with the City in registering, creating or enforcing any copyrights, patents, trademarks, trade secrets or other possessory or proprietary rights arising hereunder. If any assistance by the Engineer is requested and rendered pursuant to this Section, the City shall reimburse Engineer for all out-of-pocket expenses incurred by Engineer in rendering such assistance. On termination of this Contract or upon request by the Director, Engineer shall deliver all Works to the City. Engineer shall obtain written agreements in the form specified in Exhibit "H" from its agents, contractors and subcontractors performing work hereunder which bind them to the terms contained in this Section.
- 2.10.3 The Engineer may, however, retain copies of such Documents. The Engineer shall have the right to use such copies internally, but the Engineer may not sell, license or otherwise market such Documents. Upon request by the Director, the Engineer shall deliver such Documents to the City.
- 2.10.4 Engineer does not represent that the Documents are or are intended to be, suitable for use on other Projects or extensions of this Project, to the extent that the Documents are site-specific. Any modification to the Engineer's work product or unintended use of same will be at the sole risk of the City.

**2.11 Consultants**

- 2.11.1 Engineer shall not subcontract any part of its Contract without approval by the Director.
- 2.11.2 Engineer shall be responsible for services performed by Consultants to the same extent as if the services were performed by Engineer.
- 2.11.3 Engineer shall replace any Consultant when requested to do so by the Director, who shall state the reasons for such request.
- 2.11.4 Engineer shall provide the Director with a copy of any of its Consultant subcontracts at Director's request.

**2.12 Payment of Consultants**

- 2.12.1 Engineer shall make timely payments to all persons and entities supplying labor, materials or equipment for the performance of this Contract in accordance with the State of Texas Prompt Payment Act.
- 2.12.2 Engineer agrees to protect, defend, and indemnify the City from any claims or liability arising out of Engineer's failure to make such payments.
- 2.12.3 Disputes relating to payment of MWBE subcontractors shall be submitted to mediation in the same manner as any other disputes under the MWBE subcontract. Failure of Engineer to comply with the decisions of the mediator may, at the sole discretion of the City, be deemed a material breach leading to termination of this Contract.

**2.13 Participation in Bidding and Construction.** Engineer agrees not to participate in the bidding process as a bidder and not to engage in construction of the Project as a contractor or subcontractor. By written agreement, Engineer shall require each Consultant for Project engineering services to be bound by the requirements of this Section.

**2.14 Equal Employment Opportunity.** Contractor shall comply with the City's Equal Employment Opportunity Ordinance as set out in Section 15-17 of the Code of Ordinances.

**2.15 Minority and Women Business Enterprises Participation**

- 2.15.1 It is the City's policy to ensure that Minority and Women Business Enterprises ("MWBEs") have the full opportunity to compete for and participate in City contracts. The objectives of Chapter 15, Article V of the City of Houston Code of Ordinances, relating to City-wide Percentage Goals for contracting with MWBEs, are incorporated into this Contract.
- 2.15.2 Engineer shall make good faith efforts to award subcontracts or supply agreements in at least 24% of the value of this Contract to MWBEs. Engineer acknowledges that it has reviewed the requirements for good faith efforts on file with the City's Office of Business Opportunity ("OBO") and will comply with them. To this end, Engineer shall maintain records showing:
  - 2.15.2.1 Subcontracts and supply agreements with Minority Business Enterprises;
  - 2.15.2.2 Subcontracts and supply agreements with Women's Business Enterprises; and

- 2.15.2.3 Specific efforts to identify and award subcontracts and supply agreements to MWBEs.
- 2.15.3 Engineer shall submit periodic reports of its efforts under this Section to the Director of Office of Business Opportunity in the form and at the times he or she prescribes.
- 2.15.4 Engineer shall require written subcontracts with all MWBE subcontractors and suppliers and shall submit all disputes with MWBE subcontractors to binding mediation in Houston, Texas if directed to do so by the Director of Office of Business Opportunity. If Engineer is an individual person (as distinguished from a corporation, partnership, or other legal entity), and the amount of the subcontract is \$50,000 or less, then the subcontract must also be signed by the attorneys of the respective parties.

**2.16 Drug Abuse Detection and Deterrence**

- 2.16.1 It is the policy of the City to achieve a drug-free workforce and workplace. The manufacture, distribution, dispensation, possession, sale, or use of illegal drugs or alcohol by contractors while on City Premises is prohibited. Engineer shall comply with all the requirements and procedures set forth in the Mayor's Drug Abuse Detection and Deterrence Procedures for Engineers, Executive Order No. 1-31 ("Executive Order"), which is incorporated into this Contract and is on file in the City Secretary's Office.
- 2.16.2 Before the City signs this Contract, Engineer shall file with the Contract Compliance Officer for Drug Testing ("CCODT"):
  - 2.16.2.1 A copy of its drug-free workplace policy;
  - 2.16.2.2 The Drug Policy Compliance Agreement substantially in the form set forth in Exhibit "E";  
and
  - 2.16.2.3 A written designation of all safety impact positions or, if applicable, a Certification of No Safety Impact Positions, substantially in the form set forth in Exhibit "G".
- 2.16.3 If Engineer files a written designation of safety impact positions with its Drug Policy Compliance Agreement, it also shall file every six months during the performance of this Contract or on completion of this Contract if performance is less than six months, a Drug Policy Compliance Declaration in a form substantially similar to Exhibit "F". Engineer shall submit the Drug Policy Compliance Declaration to the CCODT within 30 days of the expiration of each six-month period of performance and within 30 days of completion of this Contract. The first six-month period begins to run on the date the City issues its Notice to Proceed or if no Notice to Proceed is issued, on the first day Engineer begins work under this Contract.
- 2.16.4 Engineer also shall file updated designations of safety impact positions with the CCODT if additional safety impact positions are added to Engineer's employee work force.
- 2.16.5 Engineer shall require that its subcontractors comply with the Executive Order, and Engineer shall secure and maintain the required documents for City Inspection.

- 2.17 **Confidentiality.** Engineer and each of its Consultants shall keep all Documents and City work products or data it receives in strict confidence. Engineer shall not divulge such records or the information contained therein except as approved in writing by the Director or as otherwise required by law.
- 2.18 **Licenses and Permits.** Engineer shall obtain, maintain, and pay for all licenses, permits, and certificates including all professional licenses required by any statute, ordinance, rule, or regulation. Engineer shall immediately notify the Director of any suspension, revocation, or other detrimental action against his or her license.
- 2.19 **Title VI Assurances.** The requirements and terms of the United States Department of Transportation Title VI program, as revised from time to time, are incorporated into this Contract for all purposes. Engineer has reviewed Exhibit "J", and shall comply with its terms and conditions.
- 2.20 **Pay or Play.** The requirements and terms of the City of Houston Pay or Play program, as set out in Executive Order 1-7, as revised from time to time, are incorporated into this Contract for all purposes. Engineer has reviewed Executive Order No. 1-7 and shall comply with its terms and conditions.

**ARTICLE 3**  
**DUTIES OF THE CITY**

- 3.1 **Fees, In General:** The City shall pay fees to the Engineer for all services rendered by Engineer in accordance with the terms and conditions of this Contract, subject to the appropriation limits of Article 3 hereof.
- 3.1.1 If services are suspended by the Director for a period exceeding 12 months, Engineer's fees will be subject to renegotiation, subject to the appropriation limits described this Contract.
- 3.1.2 If Engineer receives payment from the City for work performed by any Consultant or for materials provided by any supplier and Engineer withholds or has withheld payment to the Consultant or supplier on account of a deficiency in the quality or quantity of that Consultant's or supplier's work or materials, or if the Director reasonably believes that the work or a portion thereof cannot be completed for the remaining unpaid amount of any applicable limit or lump sum prices, the City may withhold the amount associated with such work or materials from any pending or future payments to the Engineer until the next regular payment to Engineer occurring after the City receives reasonable documentation that the deficiency has been remedied.
- 3.1.3 The City shall not authorize any work on the Project without issuing a Notice to Proceed.
- 3.1.4 All invoices are subject to approval by the Director and are due and payable 30 days after receipt. All payments shall be made by check. Such checks shall be made payable to Engineer and payments shall be addressed to Engineer at its address specified herein for notices. The City agrees that it will not unreasonably delay or withhold payment or approval of any invoice. Neither partial payments made hereunder nor approval of invoices or services by the Director shall be construed as final acceptance or

approval of that part of Engineer's services to which such partial payment or approval relates nor shall such payments be construed as relieving Engineer of any of its obligations hereunder with respect thereto.

- 3.2 **Fees for Basic Services:** Subject to all the terms and conditions of this Contract, the City shall pay, and Engineer agrees to accept as full compensation for the Basic Services, the following fees.
- 3.2.1 Phase I - Preliminary Design. Subject to the Limit on Phase I Compensation, the City shall pay a fee for the complete performance of Phase I Basic Services work consisting of:
- 3.2.1.1 Raw Salary Times Raw Salary Multiplier, plus
  - 3.2.1.2 Reimbursable Expenses, plus
  - 3.2.1.3 Consultant Subcontract Cost for services that Engineer subcontracts to a Consultant, plus
  - 3.2.1.4 Reasonable fees paid to contract personnel and personnel employed through employment agencies.
- 3.2.2 Phase II – Final Design Phase Service.. For Phase II services performed for a Construction Package, the City shall pay a Negotiated Lump Sum which will be set out in the Notice to Proceed for such Construction Package. The Director and Engineer shall agree in writing to a Negotiated Lump Sum fee for each Construction Package prior to issuance of the Phase II Notice to Proceed. Engineer guarantees that it shall perform all Phase II services for the Negotiated Lump Sum fees set out in the respective Notices to Proceed.
- 3.2.3 Phase III - Construction Phase Services. For Phase III services performed for a Construction Package, the City shall pay a Negotiated Lump Sum which will be set out in the Notice to Proceed for such Construction Package. The Director and Engineer shall agree in writing to a Negotiated Lump Sum fee for each Construction Package prior to issuance of the Phase III Notice to Proceed. Engineer guarantees that it shall perform all Phase III services for the Negotiated Lump Sum fees set out in the respective Notices to Proceed.
- 3.2.4 At the discretion of the Director, Phase II and III services for a Construction Package may be included in the same Notice to Proceed for a Construction Package. For Phase II and III services performed for a Construction Package, the City shall pay a Negotiated Lump Sum which will be set out in the Notice to Proceed for such Construction Package. The Director and Engineer shall agree in writing to a Negotiated Lump Sum fee for each Phase II and III respectively for each Construction Package prior to issuance of the Notice to Proceed. Engineer guarantees that it shall perform Phase II and III services for the Negotiated Lump Sum fees set out in the respective Notices to Proceed.
- 3.2.5 After Engineer has completed the performance of all of the required services for Phase III, the City shall pay Engineer the total amount owed for that Phase less any amounts previously paid pursuant to the monthly invoices.



- 3.3 **Fees for Additional Services.** Subject to all the terms and conditions of this Contract, the City shall pay and Engineer agrees to accept, as full compensation for authorized Additional Services, the fees specified in this Section.
- 3.3.1 **Survey Additional Services:** For Route Topographical Survey only, the City shall pay Engineer a portion of the Negotiated Lump Sum fee according to the terms in the applicable Notice to Proceed or at the rate of **\$5.25** per linear foot for **Major Streets**, and **\$4.25** per linear foot for **Minor Streets** of actual Survey performed. If these services are provided by the Engineer's Consultant, the City shall pay Engineer at the above rates plus Consultant markup.
- 3.3.2 For Drug Detection and Deterrence Additional Services, the City shall pay Engineer a portion of the Negotiated Lump Sum fee according to the terms in the applicable Notice to Proceed in advance or as follows:
- 3.3.2.1 The cost of invoiced laboratory analyses necessary for personnel producing services under this Contract; and
- 3.3.2.2 Raw Salary times Raw Salary Multiplier for employees' time not-to-exceed one hour total for each random test conducted.
- 3.3.3 For all other Additional Services, the City will pay Engineer a portion of the Negotiated Lump Sum fee according to the terms in the applicable Notice to Proceed.
- 3.4 **Limit of Appropriation.** Engineer recognizes that under certain provisions of the Charter of the City of Houston, the City may not obligate itself by contract to an extent in excess of an amount appropriated by the City Council and further recognizes that only **\$1,200,000.00** has been appropriated and budgeted by City Council to pay the Cost of Basic Services hereunder and that only **N/A** has been appropriated and budgeted by the City Council to pay the cost of Additional Services hereunder for a total amount of **\$1,200,000.00**.
- 3.4.1 In the event the appropriation for Basic Services is insufficient to compensate Engineer for Basic Services, Engineer shall suspend its Basic Services at such time as the total appropriation for Basic Services is expended, but shall resume such Basic Services, if and when authorized by the Director as provided elsewhere herein, upon transfer of funds by the Director or appropriation of additional funds by the City Council for Basic Services.
- 3.4.2 In the event the appropriation for Additional Services is insufficient to compensate Engineer for authorized Additional Services in accordance with the payment provisions of Article 3 hereof, Engineer shall suspend its Additional Services at such time as the total appropriation for Additional Services is expended, but shall resume such Additional Services, if and when authorized by the Director as provided elsewhere herein, upon transfer of funds by the Director or appropriation of additional funds by the City Council for Additional Services.
- 3.4.3 The Director may authorize the transfer of funds between Basic Services and Additional Services when necessary to continue services by issuing a Supplemental Notice to Proceed, provided that the transfer of funds does not exceed 25% of the Negotiated Lump Sum in the original Notice to Proceed and total funds authorized do not exceed the total amount appropriated by City Council.

3.5 **Method of Payment.** The City shall pay on the basis of monthly invoices submitted by Engineer and approved by the Director, showing the services performed and the fee. Invoices from Engineer shall show the hours worked in the preceding month and the corresponding hourly rates for Services. The City shall pay Engineer within 30 days of the receipt and approval of the Invoices. The City shall make payments to the Engineer at the address for notices.

3.6 **Certain Duties of the City**

3.6.1 In addition to its other duties under this Contract, the City shall perform the following services:

3.6.1.1 When requested to do so in writing by the Engineer, provide access to information such as existing drawings, maps, field notes, statistics, computations, and other data in the possession of the City which in the Director's opinion will assist the Engineer in the performance of its services hereunder; and

3.6.1.2 Examine the Construction Documents submitted by the Engineer and render decisions pertaining thereto within a reasonable time so as to avoid unnecessary delay in the progress of the Engineer's services.

3.7 **Partial Payments**

3.7.1 For Phase II and III Basic Services the City shall make partial payments of the fees on the basis of monthly invoices submitted by Engineer and approved by the Director. The invoices must show for each Construction Package the following on the standard format provided by the City:

3.7.1.1 The percentage of the total services completed in the applicable Phase in the preceding month;

3.7.1.2 A summary of the services performed during the period covered by the invoice; and

3.7.1.3 The amount due for such services, according to the below Milestones.

3.7.2 The amount of partial payments due for services performed during Phase II shall be a percentage of the total fee due for each Construction Package for Phase II services equal to the percentage of the total Phase II services performed during the period covered by the invoice. The percentage of the total fee due for partial payments for Phase II services shall not exceed the following:

MILESTONE	MAXIMUM PHASE II PAYMENT
1. Research Utilities	10%
2. Plot Topographic Survey and Utilities	35%
3. Submit 60% Drawings	60%
4. Submit 90% Final Drawings and Specifications	90%
5. Bid-Ready Drawings and Specifications	95%
6. Completion of Phase II Services	100%

3.7.3 The amount of partial payment due for services performed during Phase III shall be a percentage of the lump sum fee equal to the percentage of the total services for that Phase performed during the period covered by the invoice.

- 3.7.4 The amount of partial payment due for Additional Services shall be a percentage of the lump sum fee equal to the percentage of the total services (for the Phase for which the Additional Service was authorized) performed during the period covered by the invoice.
- 3.7.5 Definition of above Phase II Milestones for payment
- 3.7.5.1 Research Utilities
- 3.7.5.1.1 Engineer obtains and completes review of available record drawings.
- 3.7.5.1.2 Engineer completes the utility plan review, as defined in this Scope of Services.
- 3.7.5.1.3 Engineer completes coordination with other agencies, as defined in this Scope of Services.
- 3.7.5.1.4 Engineer verifies information obtained in this Section against findings from Survey.
- 3.7.5.1.5 Engineer obtains maps and correspondence from applicable private utilities, showing and verifying location of existing private utilities.
- 3.7.5.2 Plot of Topographical Surveys and Utilities. Engineer submits set of plan drawings showing results of topographic survey and location of existing public and private utilities.
- 3.7.5.3 Submit Drawings and Draft Specifications (60% Design Submittal)
- 3.7.5.3.1 Engineer submits sets of completed construction drawings, including as a minimum:
- 3.7.5.3.1.1 Cover Sheet;
- 3.7.5.3.1.2 Index Sheet (list of drawings);
- 3.7.5.3.1.3 Overall Layout Sheet;
- 3.7.5.3.1.4 Survey Control Map;
- 3.7.5.3.1.5 General Notes Sheets (as required);
- 3.7.5.3.1.6 Plan and profile drawings of existing conditions, existing utilities and proposed improvements;
- 3.7.5.3.1.7 Details of crossings (RR, HCFCD, TXDOT, etc.), potentially contaminated areas, and proposed real estate acquisitions;
- 3.7.5.3.1.8 Standard Details;
- 3.7.5.3.1.9 Traffic Control Plan, Detour Plans and temporary Traffic Signal plans (if required);
- 3.7.5.3.1.10 Storm Water Pollution Prevention Plan (if required);
- 3.7.5.3.1.11 Tree and plant protection plan (if required);
- 3.7.5.3.1.12 For Paving Projects, also include:
- 3.7.5.3.1.12.1 Typical roadway section/cross section;
- 3.7.5.3.1.12.2 Proposed Traffic Signal Plans;
- 3.7.5.3.1.12.3 Proposed Paving Marking and Signage Plans;
- 3.7.5.3.1.12.4 Street Lighting Plans;
- 3.7.5.3.1.12.5 Drainage Area Maps; and

- 3.7.5.3.1.12.6 Houston Storm, and other Hydraulic and Hydrology Sewer Computations.
- 3.7.5.3.1.13 For Facilities Projects, also include process flow diagrams, piping diagrams, hydraulic profile diagrams, and instrumentation diagrams, as applicable;
- 3.7.5.3.1.14 For Water & Wastewater Projects, also include design calculations for the proposed improvements and system head curves for pumps; and
- 3.7.5.3.1.15 Engineer submits sheet-by-sheet quantity takeoff, flagman hour calculation, and documentation to support the construction duration specified.
- 3.7.5.3.2 Engineer submits sets of draft construction specifications including as a minimum:
  - 3.7.5.3.2.1 Table of Contents;
  - 3.7.5.3.2.2 Document 00410 (Bid Form) with all bid items, including quantities, and other detailed construction cost estimates supporting Document 00410;
  - 3.7.5.3.2.3 Section 01110 (Summary of Work);
  - 3.7.5.3.2.4 Completed technical specifications (Division 01 through 16, as required); and
  - 3.7.5.3.2.5 All supplemental and non-standard technical specifications included in Divisions 02 through 16 identified.
- 3.7.5.3.3 Engineer submits documentation that drawings were submitted to private utilities for final review. Engineer makes initial coordination effort with private utilities regarding potential conflicts for the Project.
- 3.7.5.3.4 Engineer submits design review checklist (as available).
- 3.7.5.4 Submit Final Drawings and Specifications (90% Design Submittal)
  - 3.7.5.4.1 Engineer submits completed sets of construction drawings, with all review comments resolved, including all comment logs with responses.
  - 3.7.5.4.2 Engineer submits completed construction specifications, with all review comments resolved.
  - 3.7.5.4.3 Engineer submits a completed Document 00410 (Bid Form) with all bid items, including quantities, and other detailed construction cost estimates supporting Document 00410 Master List.
  - 3.7.5.4.4 Engineer submits sheet-by-sheet quantity takeoff, flagman hour calculation, and documentation to support the construction duration specified.
  - 3.7.5.4.5 Engineer provides documentation of permit submittal or permit approvals, as applicable, from TXDOT, HCFCD, Railroads, U.S. Army Corps of Engineers, and Harris County Public Infrastructure Department.

3.7.5.4.6 Engineer provides document submittals of plans to City for Building Permit Application (including Floodplain Administration) and to Texas Department of Licensing and Regulations for ADA requirements, if applicable.

3.7.5.4.7 For Wastewater projects and other projects as applicable, Engineer submits Draft Engineering Design Report (DEDR) in conformance with TCEQ requirements.

3.7.5.5 Submit Bid-Ready Drawings and Specifications

3.7.5.5.1 Engineer submits bid-ready construction documents, signed and sealed construction drawings with all required signatures, and completed construction specifications.

3.7.5.5.2 Engineer provides documentation that application for City Building Permits (including Floodplain Administration) has been approved to Texas Department of Licensing and Regulations for ADA requirements, if applicable.

3.7.5.5.3 For Wastewater projects or other projects as applicable, Engineer submits Final Engineering Design Report (FEDR) in conformance with TCEQ requirements.

3.7.5.5.4 Engineer submits Final ESA I and II (as applicable), and Final Geotechnical reports.

**ARTICLE 4**

**TERMINATION**

**4.1 Termination by the City for Convenience**

4.1.1 The Director may terminate Engineer's performance under this Contract at any time by giving seven days written notice to Engineer. As soon as possible, but not later than the effective date of such notice, Engineer shall, unless the notice directs otherwise, immediately discontinue all services in connection with this Contract and shall proceed to promptly cancel all existing orders and Consultant subcontracts insofar as such orders or subcontracts are chargeable to this Contract. Within seven days after the effective date of notice of termination, Engineer shall deliver copies of all Documents to the Director and submit an invoice showing in detail services performed under this Contract to the date of termination. The City shall then pay the prescribed fees to Engineer for services actually performed under this Contract up to the date of termination less such payment on account of charges previously made, in the same manner as prescribed in Article 3 of this Contract. Any installments or lump sum fees shall be prorated in accordance with the progress of the Work at the effective date of termination. Engineer may, if necessary, submit invoices for vendor and Consultant charges reasonably necessary for the Project which are incurred prior to the effective date of termination and received by Engineer after its initial termination invoice.

4.1.2 Engineer understands and acknowledges that if the City determines not to proceed with this Contract, according to the terms of this article, the Director shall provide Engineer with a written notice of his intent

to terminate this Contract and this Contract shall terminate upon Engineer's receipt of such written notice.

- 4.2 **Termination by the City for Cause.** City may terminate this Contract in the event of a material default by Engineer and a failure by Engineer to cure such default after receiving notice thereof, as provided in this Section. Default by Engineer shall occur if Engineer fails to observe or perform any of its duties under this Contract, if Engineer dies (if an individual), or for some other reason is unable to render services hereunder. Should such a default occur, the Director will deliver a written notice to Engineer describing such default and the proposed date of termination. Such date may not be sooner than the seventh day following receipt of the notice. The Director, at his or her sole option, may extend the proposed date of termination to a later date. If Engineer cures such default to the Director's reasonable satisfaction prior to the proposed date of termination, then the proposed termination shall be ineffective. If Engineer fails to cure such default prior to the proposed date of termination, then City may terminate its performance under this Contract as of such date, and Engineer shall deliver all Documents to the Director within seven days of the effective date of the termination. If the City's cost of obtaining completion of the work by other engineers, in combination with other direct costs sustained by the City as a result of the default, exceeds the remaining contract amounts unpaid to Engineer, the City shall not be obligated to make any further payment to Engineer. This provision does not relieve Engineer of any other obligation Engineer may have to the City.
- 4.3 **Termination by Engineer for Cause.** Engineer may terminate its performance only upon default of the City. Should such default occur, Engineer shall have the right to terminate all or part of its duties under this Contract as of the 14th day following the receipt by the City of a notice from Engineer describing such default and intended termination, provided: (1) such termination shall be ineffective if within the 14 day period the City cures the default; and (2) such termination may be stayed beyond such 14 day period, at the sole option of Engineer, pending cure of the default.

#### ARTICLE 5

#### MISCELLANEOUS PROVISIONS

- 5.1 **Independent Contractor.** The relationship of Engineer to the City shall be that of an independent contractor.
- 5.2 **Business Structure and Assignments.** Engineer shall not assign this Contract at law or otherwise or dispose of all or substantially all of its assets without the Director's prior written consent. Nothing in this clause, however, prevents the assignment of accounts receivable or the creation of a security interest as described in Chapter 9 of the Texas Business & Commerce Code. In the case of such an assignment, Engineer shall immediately furnish the City with proof of the assignment and the name, telephone number, and address of the Assignee and a clear identification of the fees to be paid to the Assignee. Engineer shall not delegate any portion of its performance under this Contract without the Director's prior written consent.

- 5.3 **Parties in Interest.** This Contract shall not bestow any rights upon any third party, but rather, shall bind and benefit the City and Engineer only.
- 5.4 **Non-waiver.** Failure of either Party hereto to insist on the strict performance of any of the agreements herein or to exercise any rights or remedies accruing hereunder upon default or failure of performance shall not be considered a waiver of the right to insist on and to enforce by any appropriate remedy, strict compliance with any other obligation hereunder or to exercise any right or remedy occurring as a result of any future default or failure of performance.
- 5.5 **Applicable Laws.** This Contract is subject to and shall be construed in accordance with the laws of the State of Texas, the City Charter and Ordinances of the City of Houston, and to the extent required by any agreement between the City and any Federal agency, the laws of the federal government of the United States of America and all rules and regulations of any regulatory body or officer having jurisdiction over this Project. This Contract is performable in Harris County, Texas.
- 5.6 **Notices.** All notices required or permitted hereunder shall be in writing and shall be deemed received when actually received or if earlier, on the third day following deposit in a United States Postal Service post office or receptacle with proper postage affixed (certified mail, return receipt requested) addressed to the other party at the address prescribed in the preamble hereof or at such other address as the receiving party may have theretofore prescribed by notice to the sending party.
- 5.7 **Captions.** The captions at the beginning of the articles and sections of this Contract are guides and labels to assist in locating and reading such articles and sections and, therefore, will be given no effect in construing this Contract and shall not be restrictive of or be used to interpret the subject matter of any article, section, or part of this Contract.
- 5.8 **Acceptances and Approvals.** Any acceptance or approval by the City, or its agents or employees shall not constitute nor be deemed to be a release of the responsibility and liability of Engineer, its employees, agents, Consultants, or suppliers for the accuracy, competency, and completeness for any Documents prepared or services performed pursuant to the terms and conditions of this Contract, nor shall acceptance or approval be deemed to be an assumption of such responsibility or liability by the City, or its agents and employees, for any defect, error or omission in any Documents prepared or services performed by Engineer, its employees, agents, Consultants or suppliers pursuant to this Contract.
- 5.9 **Inspections and Audits.** Representatives of the City shall have the right to examine and review all books, records, and billing documents which are directly related to performance or payment under this Contract.

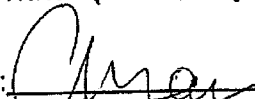
Engineer shall maintain such books, records, and billings for three years after the cessation of its other duties under this Contract. This right of audit extends to the records of Engineer's Consultants, and Engineer's agreements with its Consultants shall provide this right to the City.

- 5.10 **Construction Budget.** If a construction budget for this Project is indicated in an exhibit to this Contract, Engineer will use its best efforts to design the Project so that it is likely that the Project may be constructed within that budget. At any point Engineer becomes reasonably aware that the construction budget will likely be exceeded, Engineer will notify City of its awareness of that likelihood.
- 5.11 **Site Conditions.** Engineer understands that it is in the interest of the City that the construction of the Project being designed by the Engineer under this Contract shall proceed in a prompt and efficient manner. Engineer will make a reasonable effort to identify and note on its construction documents interferences that will be encountered on the site of the construction by the construction contractor.
- 5.12 **Ambiguities.** In the event of any ambiguity in any of the terms of this Contract, it shall not be construed for or against any Party because of such Party's involvement in the preparation or drafting of this Contract.
- 5.13 **Entire Agreement.** This Contract merges the prior negotiations and understandings of the Parties hereto and embodies the entire agreement of the Parties, and there are no other agreements, assurances, conditions, covenants (expressed or implied) or other terms with respect to the subject matter hereof, whether written or verbal.
- 5.14 **Survival.** Engineer shall remain obligated to the City under all clauses of this Contract that expressly or by their nature extend beyond the expiration or termination of the term of this Contract, including but not limited to the Ownership of Documents provisions of Article 2 of this Contract.
- 5.15 **ENGINEER'S DEBT: IF ENGINEER, AT ANY TIME DURING THE TERM OF THIS CONTRACT, INCURS A DEBT, AS THE WORD IS DEFINED IN SECTION 15-122 OF THE HOUSTON CITY CODE OF ORDINANCES, IT SHALL IMMEDIATELY NOTIFY THE CITY CONTROLLER IN WRITING. IF THE CITY CONTROLLER BECOMES AWARE THAT ENGINEER HAS INCURRED A DEBT, THE CONTROLLER SHALL IMMEDIATELY NOTIFY ENGINEER IN WRITING. IF ENGINEER DOES NOT PAY THE DEBT WITHIN 30 DAYS OF EITHER SUCH NOTIFICATION, THE CITY CONTROLLER MAY DEDUCT FUNDS IN AN AMOUNT EQUAL TO THE DEBT FROM ANY PAYMENTS OWED TO ENGINEER UNDER THIS CONTRACT, AND ENGINEER WAIVES ANY RECOURSE THEREFOR. ENGINEER SHALL FILE A NEW AFFIDAVIT OF OWNERSHIP, USING THE FORM DESIGNATED BY CITY, BETWEEN FEBRUARY 1 AND MARCH 1 OF EVERY YEAR DURING THE TERM OF THIS CONTRACT.**

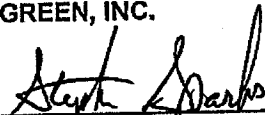


The Parties have executed this Contract in multiple copies, each of which shall be an original, as of this date countersigned by the City Controller of the City of Houston.

**ATTEST/SEAL (if a corporation):  
WITNESS (if not a corporation):**

By:   
Name: Christi Morgan  
Title: Project Coordinator  
Federal Tax Identification No. 42-0927178

**ENGINEER:  
HR GREEN, INC.**

By:   
Name: Stephen Sparks  
Title: Vice President

**ATTEST/SEAL:**


**CITY:  
THE CITY OF HOUSTON, TEXAS  
Signed by:**

\_\_\_\_\_  
City Secretary

\_\_\_\_\_  
Mayor

**APPROVED:**

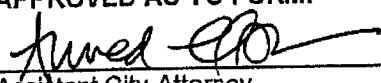
**COUNTERSIGNED BY:**

  
Director, Department of Public Works  
and Engineering

\_\_\_\_\_  
City Controller

**APPROVED AS TO FORM:**

**DATE COUNTERSIGNED:**

  
Assistant City Attorney  
L.D. File No. \_\_\_\_\_

\_\_\_\_\_

**EXHIBIT "A"**  
**ADDITIONAL TERMS**

DR15 SWAT 4A NORTHSIDE/NORTHLINE DRAINAGE AND PAVING IMPROVEMENTS

WBS No. M-420HUD-004A-3

**GENERAL**

**1.1 Additional Definitions used in this Contract**

- 1.1.1 **Limit on Phase I Compensation:** The limit on Phase I Compensation is *N/A* for all Construction Packages. Engineer's total billings for Phase I services, including Basic Services, Additional Services, Reimbursable Expenses, fees paid for contract personnel and personnel employed through employment agencies, and any and all other costs, shall not exceed the Limit on Phase I Compensation.
- 1.1.2 **Negotiated Lump Sum:** An amount consistent with the terms of this Contract that City shall pay Engineer for the complete performance of services, not to exceed the estimated total of the following:
- 1.1.2.1 Raw Salary times Raw Salary Multiplier for services performed directly by Engineer and Engineer's employees, plus
  - 1.1.2.2 Reimbursable Expenses, plus
  - 1.1.2.3 Consultant Subcontract Costs plus Engineer's Consultant Markup, plus
  - 1.1.2.4 Reasonable fees paid to contract personnel and personnel employed through employment agencies plus Engineer's Consultant Markup.
- 1.1.3 **Negotiated Work Order:** Individual Project assignments issued by the Director under this Contract. The Notice to Proceed for each Negotiated Work Order shall describe the specific requirements of the work to be performed, including Basic and Additional Services, for any Phase of this Contract.

**1.2 General Description of Project**

- 1.2.1 The Project generally is described as follows:

This project is part of the Department of Housing and Urban Development's Community Development Block Grant – 2015 Disaster Recovery program and is necessary to reconstruct inadequate drainage systems and reduce the potential for structural flooding. This project represents how the City will use its grant allocation to support recovery in the most impacted and distressed areas included in the 2015 major disaster declaration. This project demonstrates the City's commitment to recover, rebuild, and focus on resilience for its citizens.

1.3 **Contract Term:** This Contract is effective on the Countersignature Date and expires upon the completion of the last Negotiated Work Order issued within 3 years from the Countersignature Date. If the Director, at his or her sole discretion, makes a written request for renewal to Engineer at least 30 days before expiration of the then-current terms, and if sufficient funds are allocated, then, upon expiration of the then-current term, this Agreement is renewed for 0 year(s) upon the same terms and conditions. This Contract may only be renewed for 0 additional term(s) beyond the initial term.

**EXHIBIT A-1**  
**SCOPE OF WORK**

DR15 SWAT 4A NORTHSIDE/NORTHLINE DRAINAGE AND PAVING IMPROVEMENTS

WBS No. M-420HUD-004A-3

**PRELIMINARY ENGINEERING REPORT**

**I. EXECUTIVE SUMMARY**

- A. Project Location - Describe the project boundaries within City of Houston limits with Key Map and Council District references.
- B. Statement of Problem - Describe deficiencies of the system.
- C. Evaluation of Alternative Solutions - Provide summary of principal findings and conclusions from the evaluation of alternatives, based on specific cost and non-cost criteria.
- D. Findings from Phase I Design Activities - Summarize the findings that may impact the alternative solutions. Also, summarize other issues, if applicable, associated with:
  - 1. Geotechnical Investigation;
  - 2. Environmental Site Assessment;
  - 3. Real Estate Acquisition;
  - 4. Traffic Control Analysis/Requirements;
  - 5. Permits;
  - 6. Survey;
  - 7. Other items constructed in Right of Way including sidewalks, driveways, encroachments, and additions or replacements; and
  - 8. Other potential conflicts and special issues, such as inter-agency coordination and tree impacts.
- E. Recommended Project - Describe the recommended alternative, how it solves the described system deficiencies, and tabulate the design criteria.
- F. Estimated Construction Costs - Include Construction Costs for each alternative evaluated.

**II. INTRODUCTION**

- A. Project Location - Describe the project location within the City of Houston, including street or channel boundaries, Key Map references, and watershed.
- B. Statement of Problem - Describe deficiencies of the system. Include history of the problem, if available.

**III. EXISTING CONDITIONS AND FINDINGS FROM PHASE I DESIGN ACTIVITIES**

Summarize the existing conditions. Include the following key topics as applicable:

A. Existing Condition Utilities

1. Existing public and private utilities, including all horizontal vertical and overhead issues.
2. Coordination efforts with each franchise utility including copies of submitted Preliminary Notification Letters in Appendix of the PER.

B. Existing Condition Street and Traffic

1. Right-of-way
2. Pavement
3. Bridges
4. Street geometry
5. Traffic Control
6. Streets on Major Thoroughfare and Freeway Plan
7. Bikeway/Pedestrian Corridor

C. Existing Condition Drainage Analysis

1. Identify watershed and describe its characteristics. Note the location, size, material, and condition of the existing drainage system.
2. Perform an existing conditions analysis based on topographic survey data to determine the capacity and level of service of the existing drainage system for the design rainfall, including hydraulic grade line, critical elevation (gutter), and 2-yr, 5-yr, and 10-yr peak outflow rate.
3. When authorized by the City, quantify the number of flooded parcels and structures.
4. Identify areas within the project which do not meet current City design criteria and have documented street and structural flooding.
5. When applicable, identify inadequate receiving drainage system and indicate level of service as determined by the government agency having regulatory jurisdiction over the storm sewer or channel.
6. At the conclusion of existing condition drainage analysis, attend a progress meeting with City Project Manager and present results. Submit, at a minimum, existing condition model, drainage area map(s), and node-link layout map(s).

D. Right-of-Way Survey and Topographic Information

1. Provide datum used and key information including existing land use and other issues in right of way and easements including sidewalks, driveways, trees, landscaping, and encroachments.
2. When authorized by the City, along each alignment of the project, identify the lowest habitable finished floor elevation and compare to 2-yr, 5-yr, and 10-yr storm event water surface elevation.
3. Describe width of right-of-way. Indicate if right-of-way is adequate for proposed Project and if encroachments exist.

- E. Site Visits – Perform at least one site visit with the City Project Manager. Note location and condition of any critical facilities, landscaping, trees, sidewalks, driveway, wheelchair ramps, retaining walls and any other item or feature of potential impact to the project.

#### IV. PROPOSED CONDITIONS, EVALUATIONS, AND RECOMMENDATIONS

For project divided into multiple subprojects (construction packages) the scope of drainage analysis and exhibits (maps and 30% drawings) shall be defined by the City.

Include the following key topics as applicable:

1. Proposed Condition Utilities
  - a. Public Utilities - Describe water and wastewater improvements, if any, to be implemented with this project. Indicate critical locations and recommend resolution of any issues.
  - b. Private Utilities - Indicate critical locations, potential relocations, note all horizontal, vertical, and overhead construction conflicts and recommended plan for resolution. Report planned relocations to City for inclusion in franchise utility meetings.
2. Proposed Condition Street and Traffic
  - a. Right-of-way
  - b. Pavement
  - c. Bridges (if applicable)
  - d. Street Geometry
  - e. Traffic Control
  - f. Streets on Major Thoroughfare and Freeway Plan
  - g. Bikeway/Pedestrian Corridor
3. Proposed Condition Drainage Analysis
  - a. Note the location, size, and material of the proposed drainage system.
  - b. Perform drainage analysis based on topographic survey data and discuss findings. Engineering level design shall include preliminary determination of inlet placement and densities, size of Inlet leads, limits of street reconstruction due to condition or conveyance needs, and overland flow path considerations. Quantify the proposed drainage improvements for the design rainfall; including hydraulic grade line, critical elevation (gutter), and 2-yr, 5-yr, and 10-yr peak outflow rates.
  - c. The Engineer shall develop design rainfall event results based on latest City design criteria. Describe boundary conditions assumed for drainage analysis. Note any variance from level of service, performance, or analysis boundary conditions as set in City design criteria.
  - d. The method of drainage analysis selected (static or dynamic) shall be suitable for the project and shall be approved by the City.
  - e. Compare existing drainage system versus proposed drainage improvements in tabular format and graphic profile.
  - f. When authorized by the City as an additional service, quantify the number of flooded parcels and structures and indicate the percent reduction in flooding forecast by the proposed condition analysis. Along each alignment of the project, identify the lowest habitable finished floor elevation and compare to 2-yr, 5-yr, and 10-yr storm event water surface elevation.
  - g. When authorized by the City, provide analysis for additional storm events (25- and/or 50-year).

- h. When authorized by the City as an additional service, develop depth grid or inundation maps depicting existing drainage system and/or proposed drainage improvement.
  - i. Receiving Drainage System – For all outfall connections or interconnections to waterways, channels, ditches, storm sewers, inlets, etc.:
    - i. Determine which entities have jurisdiction and identify applicable laws, codes, regulations, and land interest, etc. as applicable upon which the determination is based. Identify coordination issues, approval requirements, or agreements necessary to implement the project.
    - ii. Identify inadequate receiving drainage system and indicate level of service as determined by the government agency having regulatory jurisdiction over the storm sewer or channel.
  - j. At the conclusion of proposed condition drainage analysis, attend a progress meeting with City Project Manager and present results. Submit, at a minimum, proposed condition model, drainage area map(s), node-link layout map(s), HGL/WSEL comparison table, and outflow rate comparison table.
4. Geotechnical Investigation - Summarize findings and recommendations. May be done in Phase I or Phase II. Fee proposal and scope shall be submitted to Geo-Env Branch for concurrence.
  5. Environmental Site Assessment – Summarize findings and recommendations including indication of whether or not an ESA Phase 2 should be recommended. May be done in Phase I or Phase II. Fee proposal and scope shall be submitted to Geo-Env Branch for concurrence.
  6. Construction Phasing Plan - Describe general approach to traffic control and any extraordinary features, including street light outage phasing during construction. Identify potential disruptions to local businesses and measures to address access during construction. Plan shall ensure minimum impact to area.
  7. Storm Water Pollution Prevention Plan - Describe the general approach to storm water pollution prevention and what measures will be required.
  8. Tree/Landscape Impacts and Protection - Describe the potential impact on existing trees and landscaping and discuss general approach to protecting during construction of the project. Note all tree removals and why no other options exist. When authorized, coordinate with Parks Department to determine location of trees to be relocated.
  9. Recommended Pavement – Describe recommended pavement widths, lane use, and structure.
  10. Roadway Geometrics – Describe recommended corner radii, esplanade widths and openings, intersection improvements, and measures taken to correct deficiencies. Indicate proposed speed limits.
  11. Real Estate Acquisitions – Discuss areas that require permits, agreements, rights of entry, easements, or land acquisitions to implement the proposed project. Include the location and number of parcel(s) based upon readily available information. Report planned acquisition to City for inclusion in Real Estate meetings.
  12. Variances – Describe any anticipated variances from current City design criteria.
  13. Floodplain/Floodway – Describe the project's location with regards to the current effective floodplain and floodway. When applicable, identify all requirements of City Code of Ordinances, Chapter 19 and indicate if the project requires a Floodplain Development Permit.
  14. Jurisdictional Determination Identify all agencies, public and private entities, railroads, etc. having jurisdiction over project design. Describe permits or licenses required from such agencies and/or entities including but not limited to TDLR, HCFCD, TXDOT, NPDES, USACE, etc. and any anticipated fees.

15. Interagency Coordination Identify potential conflicts in time and space with projects from other City departments and other agencies; and offer recommended solutions.
16. Public Engagement Meeting – When authorized by the City, Engineer will prepare for and present the proposed project to the community. Minutes of the public engagement meeting shall be provided to the City. When authorized by the City, input from the community shall be compiled and presented in a technical memorandum.

**V. ESTIMATED CONSTRUCTION COST**

Determine the Estimated Construction Cost based on 30% design for the project. Present in Document 00410 format and include breakdown of costs as noted in Evaluations and Recommendations, C.7. Develop a critical path, design phase schedule and note any items that impact the programmed delivery fiscal year.

**VI. EXHIBITS**

**A. Maps:**

- Location Map- citywide map with project location noted and freeways labeled. Include Council District boundaries and letter designation.
- Vicinity Map-Neighborhood level map with project boundary and streets labeled. Identify watershed, receiving drainage system, Key Map, and GIMS Facet Numbers.
- Proposed Drainage Area Map – If drainage area boundaries or overland flow characteristics are proposed to be modified by the project, provide a proposed drainage area map in a format that clearly shows the project drainage area boundaries at the inlet level, 2-yr flow direction arrows, the area (acres), and 2-yr flow rate (cfs) into each inlet. Identify overland flow path and street conveyance characteristics. Include floodplain boundaries if applicable.
- Existing Public Utility Map – An exhibit in one-line detail that clearly shows overall layout of all existing public utilities, including water, wastewater, storm, and all appurtenances.
- Proposed Public Utility Map – An exhibit in one-line detail that clearly shows overall layout of all proposed public utilities, including water, wastewater, and storm.
- Private Utility Map - An exhibit in one-line detail that clearly shows overall layout of all existing private utilities in the project area. The Engineer shall request private utility location information from the owning franchise and include as applicable in 30% design plan and profile drawings.
- Proposed Pavement Improvement Map – An exhibit in one-line detail that clearly shows overall layout of all streets that will be improved.
- Typical Cross-Sections – Show horizontal dimensions, pavement structure makeup and thickness, typical locations of existing and proposed buried utilities, right-of-way and easements, sidewalks, shoulders and drainage ditches.
- Floodplain Maps – 100-yr floodplain limits from FEMA's FIRM (if project located in 1% flood hazard area then show more frequent flood limits.)
- When authorized by the City, Depth Grid/Inundation Maps – Depict existing and proposed drainage improvement. Show design rainfall (2-year) hydraulic grade line issues resulting in ponding and 5-



year and 10-year storm event water surface elevations.

**B. 30% Drawings:**

- Prepare 30% design plan and profile drawings to scale on 11-in x 17-in page size. The drawings shall adhere to the graphic requirements as required by current City design criteria.
- All existing infrastructure and utilities in plan and profile shall be shown as required by current City design criteria.
- Include the following proposed improvements in red line color in the plan view:
  - a. Storm sewer, water line, and sanitary sewer with size and material identified.
  - b. Manholes with node identification and rim and invert flow line elevations.
  - c. Centerlines of roadside ditches with arrows indicating direction of flow.
  - d. Existing and proposed right-of-way and easements, edge of pavement and medians.
- Include the following proposed improvements in red line color in profile view:
  - a. Storm sewer with size and material identified, and water line and sanitary sewer at all critical locations.
  - b. Pavement grades.
  - c. Flowlines of roadside ditches.
  - d. Design rainfall hydraulic grade line and extreme storm event water surface elevation.
  - e. Clearly identify and describe the potential conflicts and critical locates between proposed storm sewer and existing public and private utilities.

**VII. APPENDICES**

- A. Existing Drainage Area Map - If drainage area boundaries or overland flow characteristics were modified in Proposed Drainage Area Map, provide an existing drainage area map in a format that clearly shows the project drainage area boundaries at the inlet level, 2-yr flow direction arrows, the area (acres), and 2-yr flow rate (cfs) into each inlet. Be sure to identify overland flow path and street conveyance characteristics. Include floodplain boundaries if applicable.
- B. Map of node-link layout used in existing and proposed condition drainage analysis. Provide two separate maps if the nodes and links are different.
- C. Tabular output of existing versus proposed condition drainage analysis shall appear in a format that allows clear side-by-side comparison. Include at minimum the following:
  - HGL / WSE Comparison Table

Node	Station (if applic.)	Existing 2-yr HGL	Proposed 2-yr HGL	Critical Elevation (gutter)	Existing 5-yr WSE	Proposed 5-yr WSE	Existing 10-yr WSE	Proposed 10-yr WSE	Allowable MPE
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- Outflow Rate Comparison Table (incl. from study area and outfall at receiving channel)

Node/Link	Existing Drainage Area	Proposed Drainage Area	Existing 2-yr Peak Flow	Proposed 2-yr Peak Flow	Existing 5-yr Peak Flow	Proposed 5-yr Peak Flow	Existing 10-yr Peak Flow	Proposed 10-yr Peak Flow
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- D. Graphic output of existing versus proposed condition drainage analysis shall appear in a format that allows clear side-by-side comparison. Include at minimum the total outflow hydrograph of drainage system serving the project area.
- E. Completed H&H Checklist
- F. Site Photographs
- G. Private Utility Contact List and Preliminary Notification Letters sent.
- H. Private Utility Drawings – All drawings received from private utility companies that clearly show existing private utilities in the project area. These utilities shall be shown graphically in the 30% drawings in sufficient detail to identify potential conflict areas with the proposed improvements.
- I. Key Correspondence:
- Include memo generated as deliverable at end of reading period.
  - Request from PUD/PDSD for water and waste water improvements.
  - Request from TOD for roadway traffic control improvements.
  - Request from SDD for certain maintenance improvements.
- J. Design Phase Schedule
- K. Public meeting minutes
- L. Product of other authorized tasks as applicable

EXHIBIT "B"  
PROJECT SCHEDULE  
N/A

M-420HUD-004A-3

**EXHIBIT "C"**  
**MAXIMUM RAW SALARIES**

<u>Classification</u>	<u>Raw Salary Rates</u>
Principal	\$85.00/Hr.
Senior Project Manager	\$70.00/Hr.
Project Manager	\$65.00/Hr.
Senior Engineer	\$60.00/Hr.
Project Engineer	\$55.00/Hr.
Senior Design Technician	\$40.00/Hr.
Design Technician	\$35.00/Hr.
Admin/Clerical	\$25.00/Hr.

EXHIBIT "D"  
CERTIFICATE OF INSURANCE

Please visit <http://purchasing.houstontx.gov/guide.shtml>, and find "Insurance & Indemnification" for the most current insurance certificates and requirements.

M-420HUD-004A-3



### CITY OF HOUSTON CERTIFICATE OF INSURANCE

This certificate of insurance is provided for informational purposes only, and does not confer any rights or obligations other than the rights and obligations conveyed by the policies referenced on this certificate. The terms of the referenced policies control over the terms of this certificate.

Prior to the beginning of work, the vendor shall obtain the minimum insurance and endorsements specified. Authorized Representatives must complete the form providing all requested information and submit by fax, U.S. mail, or e-mail as requested by the City of Houston. The listed endorsements shall be attached to this certificate; copies of the endorsements are also acceptable. PLEASE ATTACH ALL ENDORSEMENTS TO THIS FORM, AND INCLUDE THE MATCHING POLICY NUMBER ON THE ENDORSEMENT. Only City of Houston certificates of insurance are acceptable; representatives' certificates are not.

Producer: Holmes Murphy & Associates

Street/Mailing Address: 201 1<sup>st</sup> St SE Ste 700

City: Cedar Rapids State: IA Zip Code: 52401

Insured: HR Green, Inc.

Street/Mailing Address: 11011 Richmond Avenue Suite 200

City: Houston State: TX Zip Code: 77042 Phone#: 319-841-4400

#### WORKERS COMPENSATION INSURANCE COVERAGE:

Endorsed with a Waiver of Subrogation in favor of *The City of Houston*.

Waiver of Subrogation Endorsement Number: WC000313

Carrier Name: Zurich American Insurance Company NAIC#: 16535			Carrier Phone Number: 800-987-3373	
Address: 1400 American Lane		City: Schaumburg	State: IL	Zip: 60196-1056
Type of Insurance	Policy Number	Effective Date	Expiration Date	Limits of Liability
Workers Compensation Insurance	<u>WC373096607</u>	<u>01/01/2017</u>	<u>01/01/2018</u>	<input checked="" type="checkbox"/> W.C. Statutory Limits E.L. Each Accident <u>\$1,000,000</u> E.L. Disease—Each Employee <u>\$1,000,000</u>
Employers' Liability	<u>WC373096607</u>	<u>01/01/2017</u>	<u>01/01/2018</u>	E.L. Disease—Policy Limit <u>\$1,000,000</u>

#### COMMERCIAL GENERAL LIABILITY INSURANCE:

Endorsed with *The City of Houston* as Additional Insured and with a Waiver of Subrogation in favor of *The City of Houston*.

Additional Insured Endorsement #: U-GL-1175-F Waiver of Subrogation Endorsement #: U-GL-925-B

Carrier Name: Zurich American Insurance Company NAIC#: 16535			Carrier Phone Number: 800-987-3373	
Address: 1400 American Lane		City: Schaumburg	State: IL	Zip: 60196-1056
Type of Insurance	Policy Number	Effective Date	Expiration Date	Limits of Liability
Commercial General Liability Insurance (choose one) <input type="checkbox"/> Claims Made <input checked="" type="checkbox"/> Occurrence	<u>GLO373096707</u>	<u>01/01/2017</u>	<u>01/01/2018</u>	Each Occurrence: <u>\$1,000,000</u> Products/Completed Operations Aggregate <u>\$2,000,000</u> General Aggregate <u>\$2,000,000</u>

**AUTOMOBILE LIABILITY INSURANCE:**  
Endorsed with *The City of Houston* as Additional Insured and with a Waiver of Subrogation in favor of *The City of Houston*.  
Additional Insured Endorsement Number: CA20480299 Waiver of Subrogation Endorsement Number: U-CA-424-E

Carrier Name: Zurich American Insurance Company NAIC#: 16535			Carrier Phone Number: 800-987-3373	
Address: 1400 American Lane		City: Schaumburg	State: IL	Zip: 60196-1056
Type of Insurance	Policy Number	Effective Date	Expiration Date	Limits of Liability
<input checked="" type="checkbox"/> Any auto	BAP373096807	01/01/2017	01/01/2018	Combined Single Limit \$2,000,000
<input type="checkbox"/> All Owned autos				Bodily Injury (per person) \$ _____
<input type="checkbox"/> Hired Autos				Bodily Injury (per accident) \$ _____
<input type="checkbox"/> Scheduled Autos				Property Damage (per accident) \$ _____
<input type="checkbox"/> Non-owned Autos				

**OTHER INSURANCE COVERAGE:** (i.e. Excess Insurance, MCS-90, OCP or other needed insurance; use 3d page for needed information)

Carrier Name: XL Specialty Insurance Company NAIC#: 37885			Carrier Phone Number: 203-964-5200	
Address: Seaview House 70 Seaview Avenue		City: Stamford	State: CT	Zip: 06902-6040
Type of Insurance	Policy Number	Effective Date	Expiration Date	Limits of Liability
Excess Liability	ZUP14N8656617	01/01/2017	01/01/2018	\$15,000,000 Per Claim and Aggregate
Pollution				\$ _____
Builder's Risk				\$ _____
Other Professional Liability (Claims-Made)	DPR9908464	01/01/2017	01/01/2018	\$5,000,000 Per Claim \$6,000,000 Aggregate

**CANCELLATION**  
SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

**PROJECT DESCRIPTION** (Insert Project Manager Name, City Department and Mailing Address, and WBS Number, as needed)

Project: DR15 SWAT 4A: Northside/Northline Drainage and Paving Improvements: WBS No. M-420HUD-004A-3
Project Manager: Ellen Maas, P.E., Storm Water Engineering Public Works and Engineering, 611 Walker St., 15th Floor
Houston, Texas 77002

**AUTHORIZED REPRESENTATIVE CERTIFICATION**  
THIS IS TO CERTIFY TO THE CITY OF HOUSTON that the insurance policies above are in full force and effect.

Name of Authorized Representative: Paula A. Dixon
Representative's Address: 201 1 <sup>st</sup> St SE Ste 700
City: Cedar Rapids State: IA Zip: 52401
Authorized Representative's Phone Number (including Area Code): 309-282-3901
Signature of Authorized Representative X <i>PAULA A. DIXON</i>
Date 6/21/2017

Additional Notes:

**WORKERS COMPENSATION INSURANCE COVERAGE (e.g., limits, self-insured retention, deductibles)**

As applicable: Self-Insured Retention: _____ Deductible: _____

**COMMERCIAL GENERAL LIABILITY INSURANCE (e.g., limits, self-insured retention, deductibles)**

As applicable: Self-Insured Retention: _____ Deductible: _____

**AUTOMOBILE LIABILITY INSURANCE (e.g., limits, self-insured retention, deductibles)**

As applicable: Self-Insured Retention: _____ Deductible: _____

**OTHER INSURANCE COVERAGE (e.g., limits, self-insured retention, deductibles)**

As applicable: Self-Insured Retention: _____ Deductible: _____

Additional Carrier Information (If multiple carriers providing insurance)

Carrier Name: Travelers Property Casualty Company of America  
NAIC#: 25674  
Carrier Phone Number: 515-551-3643  
Type of Insurance: Excess Liability  
Policy #: ZUP14N8656617  
Limits of Liability: \$15,000,000 Per Claim and Aggregate

Carrier Name: [insert insurance company name]  
NAIC#: [insert NAICS code]  
Carrier Phone Number: [insert Office Phone Number]  
Type of Insurance: [insert specific type of insurance]  
Policy #: [Enter Policy Number]  
Limits of Liability: \$[Enter policy amount]

Carrier Name: [insert insurance company name]  
NAIC#: [insert NAICS code]  
Carrier Phone Number: [insert Office Phone Number]  
Type of Insurance: [insert specific type of insurance]  
Policy #: [Enter Policy Number]  
Limits of Liability: \$[Enter policy amount]



Policy Number  
GLO 3730967-07

SCHEDULE OF NAMED INSURED(S)

**ZURICH AMERICAN INSURANCE COMPANY**

Named Insured GREEN COMPANIES, INC.

Effective Date: 01-01-17  
12:01 A.M., Standard Time

Agent Name HOLMES, MURPHY AND ASSOCIATES, LLC

Agent No. 37179-000

NAMED INSURED

GREEN COMPANIES, INC.  
HR GREEN, INC.  
HR GREEN, INC. DBA HR GREEN RENEWABLE ENERGY  
HR GREEN CALIFORNIA, INC.  
HR GREEN DEVELOPMENT, LLC  
WABASCHO/GREEN ENERGY LLC  
GREEN CONSTRUCTION, LLC  
HR GREEN DUBUQUE, LLC  
HRG TECHNOLOGY GROUP, LLC  
SPARKS-BARLOW-BARNETT, INC., A HOWARD R. GREEN COMPANY  
SEC GROUP, INC  
SEC ENGINEERING CONSULTANTS, INC.  
SEC PLANNING  
SEC SURVEYING  
SMITH ENGINEERING CONSULTANTS  
HR GREEN COMPANIES, INC.  
HR GREEN DESIGN  
HR GREEN  
SEC GROUP, INC. AN HR GREEN COMPANY  
SEC GROUP, INC. A HOWARD R. GREEN COMPANY  
SPARKS BARLOW BARNETT, AN HR GREEN COMPANY  
SPARKS BARLOW BARNETT, A HOWARD R GREEN COMPANY

Policy Number  
BAP 3730968-07

SCHEDULE OF NAMED INSURED(S)

**ZURICH AMERICAN INSURANCE COMPANY**

Named Insured GREEN COMPANIES, INC.

Effective Date: 01-01-17  
12:01 A.M., Standard Time

Agent Name HOLMES, MURPHY AND ASSOCIATES, LLC

Agent No. 37179-000

NAMED INSURED

GREEN COMPANIES, INC.  
HR GREEN, INC.  
HR GREEN CALIFORNIA, INC.  
HR GREEN DEVELOPMENT, LLC

## Named Insured Schedule

The following are included as Named Insureds in Item 1. of the Declarations:

GREEN COMPANIES, INC.  
HR GREEN, INC.  
HR GREEN CALIFORNIA, INC.  
GCI DEVELOPMENT, LLC  
HR GREEN DEVELOPMENT, LLC  
HR GREEN, INC. DBA HR GREEN RENEWABLE ENERGY  
WABASCHO/GREEN ENERGY LLC  
GREEN CONSTRUCTION, LLC  
HR GREEN DUBUQUE, LLC  
GP, INC. (FORMERLY GOVPARTNERS.COM)  
HRG TECHNOLOGY GROUP, LLC  
SPARKS-BARLOW-BARNETT, INC., A HOWARD R. GREEN COMPANY  
SEC GROUP, INC  
SEC ENGINEERING CONSULTANTS, INC.  
SEC PLANNING  
SEC SURVEYING  
SMITH ENGINEERING CONSULTANTS  
HR GREEN COMPANIES, INC.  
HR GREEN DESIGN  
HR GREEN  
SEC GROUP, INC. AN HR GREEN COMPANY  
SEC GROUP, INC. A HOWARD R. GREEN COMPANY  
SPARKS BARLOW BARNETT, AN HR GREEN COMPANY  
SPARKS BARLOW BARNETT, A HOWARD R GREEN COMPANY



**ZURICH**<sup>®</sup>

**Additional Insured – Automatic – Owners, Lessees Or  
Contractors - Completed Operations**

Policy No.	Eff. Date of Pol.	Exp. Date of Pol.	Eff. Date of End.	Producer No.	Add'l. Prem.	Return Prem.
GLO3730967-07	01/01/2017	01/01/2018	01/01/2017	37-179-000		

**THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.**

**Named Insured:** GREEN COMPANIES, INC.

**Address (including ZIP Code):**  
8710 Earhart Lane SW  
Cedar Rapids, IA 52404

This endorsement modifies insurance provided under the:  
**Commercial General Liability Coverage Part**

**A. Section II – Who Is An Insured** is amended to include as an additional insured any person or organization whom you are required to add as an additional insured on this policy under a written contract or written agreement. Such person or organization is an additional insured only with respect to liability for "bodily injury", "property damage" or "personal and advertising injury" caused, in whole or in part, by:

1. Your acts or omissions; or
2. The acts or omissions of those acting on your behalf,

in the performance of your ongoing operations or "your work" as included in the "products-completed operations hazard", which is the subject of the written contract or written agreement.

However, the insurance afforded to such additional insured:

1. Only applies to the extent permitted by law; and
2. Will not be broader than that which you are required by the written contract or written agreement to provide for such additional insured.

**B. With respect to the insurance afforded to these additional insureds, the following additional exclusion applies:**

This insurance does not apply to:

"Bodily injury", "property damage" or "personal and advertising injury" arising out of the rendering of, or failure to render, any professional architectural, engineering or surveying services including:

- a. The preparing, approving or failing to prepare or approve maps, shop drawings, opinions, reports, surveys, field orders, change orders or drawings and specifications; or
- b. Supervisory, inspection, architectural or engineering activities.

This exclusion applies even if the claims against any insured allege negligence or other wrongdoing in the supervision, hiring, employment, training or monitoring of others by that insured, if the "occurrence" which caused the "bodily injury" or "property damage", or the offense which caused the "personal and advertising injury", involved the rendering of or the failure to render any professional architectural, engineering or surveying services.

Policy No. - GLO3730967-07

C. The following is added to Paragraph 2. Duties In The Event Of Occurrence, Offense, Claim Or Suit of Section IV – Commercial General Liability Conditions:

The additional insured must see to it that:

1. We are notified as soon as practicable of an "occurrence" or offense that may result in a claim;
2. We receive written notice of a claim or "suit" as soon as practicable; and
3. A request for defense and indemnity of the claim or "suit" will promptly be brought against any policy issued by another insurer under which the additional insured may be an insured in any capacity. This provision does not apply to insurance on which the additional insured is a Named Insured if the written contract or written agreement requires that this coverage be primary and non-contributory.

D. For the purposes of the coverage provided by this endorsement:

1. The following is added to the Other Insurance Condition of Section IV – Commercial General Liability Conditions:

**Primary and Noncontributory Insurance**

This insurance is primary to and will not seek contribution from any other insurance available to an additional insured provided that:

- a. The additional insured is a Named Insured under such other insurance; and
- b. You are required by written contract or written agreement that this insurance be primary and not seek contribution from any other insurance available to the additional insured.

2. The following paragraph is added to Paragraph 4.b. of the Other Insurance Condition of Section IV – Commercial General Liability Conditions:

This insurance is excess over:

Any of the other insurance, whether primary, excess, contingent or on any other basis, available to an additional insured, in which the additional insured on our policy is also covered as an additional insured on another policy providing coverage for the same "occurrence", offense, claim or "suit". This provision does not apply to any policy in which the additional insured is a Named Insured on such other policy and where our policy is required by a written contract or written agreement to provide coverage to the additional insured on a primary and non-contributory basis.

E. This endorsement does not apply to an additional insured which has been added to this policy by an endorsement showing the additional insured in a Schedule of additional insureds, and which endorsement applies specifically to that identified additional insured.

F. With respect to the insurance afforded to the additional insureds under this endorsement, the following is added to Section III – Limits Of Insurance:

The most we will pay on behalf of the additional insured is the amount of insurance:

1. Required by the written contract or written agreement referenced in Paragraph A. of this endorsement; or
  2. Available under the applicable Limits of Insurance shown in the Declarations,
- whichever is less.

This endorsement shall not increase the applicable Limits of Insurance shown in the Declarations.

All other terms and conditions of this policy remain unchanged.



**ZURICH**

## Waiver Of Subrogation (Blanket) Endorsement

Policy No.	Eff. Date of Pol.	Exp. Date of Pol.	Eff. Date of End.	Producer	Add'l. Prem.	Return Prem.
GLO3730967-07	01/01/2017	01/01/2018	01/01/2017	37-179-000	\$	\$

**THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.**

This endorsement modifies insurance provided under the:

**Commercial General Liability Coverage Part**

The following is added to the Transfer Of Rights Of Recovery Against Others To Us Condition:

If you are required by a written contract or agreement, which is executed before a loss, to waive your rights of recovery from others, we agree to waive our rights of recovery. This waiver of rights shall not be construed to be a waiver with respect to any other operations in which the insured has no contractual interest.

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

## DESIGNATED INSURED


This endorsement modifies insurance provided under the following:

BUSINESS AUTO COVERAGE FORM  
GARAGE COVERAGE FORM  
MOTOR CARRIER COVERAGE FORM  
TRUCKERS COVERAGE FORM

With respect to coverage provided by this endorsement, the provisions of the Coverage Form apply unless modified by this endorsement.

This endorsement identifies person(s) or organization(s) who are "insureds" under the Who Is An Insured Provision of the Coverage Form. This endorsement does not alter coverage provided in the Coverage Form.

This endorsement changes the policy effective on the inception date of the policy unless another date is indicated below.

Endorsement Effective: 01/01/2017	Countersigned By: 
Named Insured: GREEN COMPANIES, INC.	(Authorized Representative)

### SCHEDULE

Name of Person(s) or Organization(s):

ANYONE REQUIRED BY WRITTEN CONTRACT, EXECUTED PRIOR TO THE LOSS, TO BE NAMED AS ADDITIONAL INSURED.

(If no entry appears above, information required to complete this endorsement will be shown in the Declarations as applicable to the endorsement.)

Each person or organization shown in the Schedule is an "insured" for Liability Coverage, but only to the extent that person or organization qualifies as an "insured" under the Who Is An Insured Provision contained in Section II of the Coverage Form.

## Coverage Extension Endorsement



Policy No.	Eff. Date of Pol.	Exp. Date of Pol.	Eff. Date of End.	Producer No.	Add'l. Prem.	Return Prem.
BAP 3730968-07	01/01/2017	01/01/2018	01/01/2017	37-179-000		

**THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.**

This endorsement modifies insurance provided under the:

**Business Auto Coverage Form  
Motor Carrier Coverage Form**

### A. Amended Who Is An Insured

1. The following is added to the **Who Is An Insured** Provision in **Section II – Liability Coverage**:

The following are also "insureds":

- Any "employee" of yours is an "insured" while using a covered "auto" you don't own, hire or borrow for acts performed within the scope of employment by you.
- Anyone volunteering services to you is an "insured" while using a covered "auto" you don't own, hire or borrow to transport your clients or other persons in activities necessary to your business.
- Anyone else who furnishes an "auto" referenced in Paragraphs a. and b. above.
- Any person(s) or organization(s) where required by written contract or written agreement executed prior to any "accident" provided the "accident" arises out of operations contemplated by such contract or agreement.

2. The following is added to the **Other Insurance** Provision in the **Conditions** Section:

Coverage for any person(s) or organization(s) where required by written contract or written agreement executed prior to any "accident" will apply on a primary basis and any insurance maintained by the additional "insured" will apply on an excess basis. However, in no event will this coverage extend beyond the terms and conditions of the coverage form.

### B. Amendment – Supplementary Payments

Paragraphs a.(2) and a.(4) of the **Coverage Extensions** Provision in **Section II – Liability Coverage** are replaced by the following:

- Up to \$5,000 for the cost of bail bonds (including bonds for related traffic law violations) required because of an "accident" we cover. We do not have to furnish these bonds.
- All reasonable expenses incurred by the "insured" at our request, including actual loss of earnings up to \$500 a day because of time off from work.

### C. Fellow Employee Coverage

The **Fellow Employee Exclusion** contained in **Section II – Liability Coverage** does not apply.

### D. Driver Safety Program Liability and Physical Damage Coverage

1. The following is added to the **Racing Exclusion** in **Section II – Liability Coverage**:

This exclusion does not apply to covered "autos" participating in a driver safety program event, such as, but not limited to, auto or truck rodeos and other auto or truck agility demonstrations.



2. The following is added to Paragraph 2. in the Exclusions of Section III – Physical Damage Coverage of the Business Auto Coverage Form and Paragraph 2.b. in the Exclusions of Section IV – Physical Damage Coverage of the Motor Carrier Coverage Form:

This exclusion does not apply to covered "autos" participating in a driver safety program event, such as, but not limited to, auto or truck rodeos and other auto or truck agility demonstrations.

**E. Lease or Loan Gap Coverage**

The following is added to the Coverage Provision of the Physical Damage Coverage Section:

**Lease Or Loan Gap Coverage**

In the event of a total "loss" to a covered "auto", we will pay any unpaid amount due on the lease or loan for a covered "auto", less:

- a. Any amount paid under the Physical Damage Coverage Section of the coverage form; and
- b. Any:
  - (1) Overdue lease or loan payments at the time of the "loss";
  - (2) Financial penalties imposed under a lease for excessive use, abnormal wear and tear or high mileage;
  - (3) Security deposits not returned by the lessor;
  - (4) Costs for extended warranties, credit life insurance, health, accident or disability insurance purchased with the loan or lease; and
  - (5) Carry-over balances from previous leases or loans.

**F. Towing and Labor**

The following is added to Paragraph A.2. of the Physical Damage Coverage Section:

We will pay up to \$75 for towing and labor costs incurred each time a covered "auto" of the private passenger type is disabled. However, the labor must be performed at the place of disablement.

**G. Extended Glass Coverage**

The following is added to Paragraph A.3.a. of the Physical Damage Coverage Section:

If glass must be replaced, the deductible will be \$100 or the deductible shown in the Declarations, whichever is less. If glass can be repaired and is actually repaired rather than replaced, the deductible will be waived. You have the option of having the glass repaired rather than replaced.

**H. Hired Auto Physical Damage – Increased Loss of Use Expenses**

The Loss Of Use Expenses Provision of the Physical Damage Coverage Section is replaced by the following:

**Loss Of Use Expenses**

For Hired Auto Physical Damage, we will pay expenses for which an "insured" becomes legally responsible to pay for loss of use of a vehicle rented or hired without a driver under a written rental contract or written rental agreement. We will pay for loss of use expenses if caused by:

- (1) Other than collision only if the Declarations indicate that Comprehensive Coverage is provided for any covered "auto";
- (2) Specified Causes Of Loss only if the Declarations indicate that Specified Causes Of Loss Coverage is provided for any covered "auto"; or
- (3) Collision only if the Declarations indicate that Collision Coverage is provided for any covered "auto".

However, the most we will pay for any expenses for loss of use is \$100 per day, to a maximum of \$3000.

**I. Personal Effects Coverage**

The following is added to the Coverage Provision of the Physical Damage Coverage Section:

**Personal Effects Coverage**

- a. We will pay up to \$750 for "loss" to personal effects which are:

- (1) Personal property owned by an "insured"; and

- (2) In or on a covered "auto".
- b. Subject to Paragraph a. above, the amount to be paid for "loss" to personal effects will be based on the lesser of:
- (1) The reasonable cost to replace; or
  - (2) The actual cash value.
- c. The coverage provided in Paragraphs a. and b. above, only applies in the event of a total theft of a covered "auto". No deductible applies to this coverage. However, we will not pay for "loss" to personal effects of any of the following:
- (1) Accounts, bills, currency, deeds, evidence of debt, money, notes, securities, or commercial paper or other documents of value.
  - (2) Bullion, gold, silver, platinum, or other precious alloys or metals; furs or fur garments; jewelry, watches, precious or semi-precious stones.
  - (3) Paintings, statuary and other works of art.
  - (4) Contraband or property in the course of illegal transportation or trade.
  - (5) Tapes, records, discs or other similar devices used with audio, visual or data electronic equipment.

Any coverage provided by this Provision is excess over any other insurance coverage available for the same "loss".

**J. Tapes, Records and Discs Coverage**

1. The Exclusion in Paragraph B.4.a. of Section III – Physical Damage Coverage in the Business Auto Coverage Form and the Exclusion in Paragraph B.2.c. of Section IV – Physical Damage Coverage in the Motor Carrier Coverage Form do not apply.
2. The following is added to Paragraph 1.a. Comprehensive Coverage under the Coverage Provision of the Physical Damage Coverage Section:  
We will pay for "loss" to tapes, records, discs or other similar devices used with audio, visual or data electronic equipment. We will pay only if the tapes, records, discs or other similar audio, visual or data electronic devices:
  - (a) Are the property of an "insured"; and
  - (b) Are in a covered "auto" at the time of "loss".

The most we will pay for such "loss" to tapes, records, discs or other similar devices is \$500. The Physical Damage Coverage Deductible Provision does not apply to such "loss".

**K. Airbag Coverage**

The Exclusion in Paragraph B.3.a. of Section III – Physical Damage Coverage in the Business Auto Coverage Form and the Exclusion in Paragraph B.4.a. of Section IV – Physical Damage Coverage in the Motor Carrier Coverage Form do not apply to the accidental discharge of an airbag.

**L. Two or More Deductibles**

The following is added to the Deductible Provision of the Physical Damage Coverage Section:

If an accident is covered both by this policy or coverage form and by another policy or coverage form issued to you by us, the following applies for each covered "auto" on a per vehicle basis:

1. If the deductible on this policy or coverage form is the smaller (or smallest) deductible, it will be waived; or
2. If the deductible on this policy or coverage form is not the smaller (or smallest) deductible, it will be reduced by the amount of the smaller (or smallest) deductible.

**M. Physical Damage – Comprehensive Coverage – Deductible**

The following is added to the Deductible Provision of the Physical Damage Coverage Section:

Regardless of the number of covered "autos" damaged or stolen, the maximum deductible that will be applied to Comprehensive Coverage for all "loss" from any one cause is \$5,000.

**N. Temporary Substitute Autos – Physical Damage**

1. The following is added to **Section I – Covered Autos**:

**Temporary Substitute Autos – Physical Damage**

If Physical Damage Coverage is provided by this coverage form on your owned covered "autos", the following types of vehicles are also covered "autos" for Physical Damage Coverage:

Any "auto" you do not own when used with the permission of its owner as a temporary substitute for a covered "auto" you do own but is out of service because of its:

1. Breakdown;
2. Repair;
3. Servicing;
4. "Loss"; or
5. Destruction.

2. The following is added to the Coverage Provision of the **Physical Damage Coverage Section**:

**Temporary Substitute Autos – Physical Damage**

We will pay the owner for "loss" to the temporary substitute "auto" unless the "loss" results from fraudulent acts or omissions on your part. If we make any payment to the owner, we will obtain the owner's rights against any other party.

The deductible for the temporary substitute "auto" will be the same as the deductible for the covered "auto" it replaces.

**O. Amended Duties In The Event Of Accident, Claim, Suit Or Loss**

Paragraph a. of the **Duties In The Event Of Accident, Claim, Suit Or Loss Condition** is replaced by the following:

- a. In the event of "accident", claim, "suit" or "loss", you must give us or our authorized representative prompt notice of the "accident", claim, "suit" or "loss". However, these duties only apply when the "accident", claim, "suit" or "loss" is known to you (if you are an individual), a partner (if you are a partnership), a member (if you are a limited liability company) or an executive officer or insurance manager (if you are a corporation). The failure of any agent, servant or employee of the "insured" to notify us of any "accident", claim, "suit" or "loss" shall not invalidate the insurance afforded by this policy.

Include, as soon as practicable:

- (1) How, when and where the "accident" or "loss" occurred and if a claim is made or "suit" is brought, written notice of the claim or "suit" including, but not limited to, the date and details of such claim or "suit";
- (2) The "insured's" name and address; and
- (3) To the extent possible, the names and addresses of any injured persons and witnesses.

If you report an "accident", claim, "suit" or "loss" to another insurer when you should have reported to us, your failure to report to us will not be seen as a violation of these amended duties provided you give us notice as soon as practicable after the fact of the delay becomes known to you.

**P. Waiver of Transfer Of Rights Of Recovery Against Others To Us**

The following is added to the **Transfer Of Rights Of Recovery Against Others To Us Condition**:

This Condition does not apply to the extent required of you by a written contract, executed prior to any "accident" or "loss", provided that the "accident" or "loss" arises out of operations contemplated by such contract. This waiver only applies to the person or organization designated in the contract.

**Q. Employee Hired Autos – Physical Damage**

Paragraph b. of the **Other Insurance Condition** in the Business Auto Coverage Form and Paragraph f. of the **Other Insurance – Primary and Excess Insurance Provisions Condition** in the Motor Carrier Coverage Form are replaced by the following:

For Hired Auto Physical Damage Coverage, the following are deemed to be covered "autos" you own:

POLICY NUMBER: BAP 3730968-07

- (1) Any covered "auto" you lease, hire, rent or borrow; and
  - (2) Any covered "auto" hired or rented under a written contract or written agreement entered into by an "employee" or elected or appointed official with your permission while being operated within the course and scope of that "employee's" employment by you or that elected or appointed official's duties as respect their obligations to you.
- However, any "auto" that is leased, hired, rented or borrowed with a driver is not a covered "auto".

**R. Unintentional Failure to Disclose Hazards**

The following is added to the **Concealment, Misrepresentation Or Fraud Condition**:

However, we will not deny coverage under this coverage form if you unintentionally:

- (1) Fail to disclose any hazards existing at the inception date of this coverage form; or
- (2) Make an error, omission, improper description of "autos" or other misstatement of information.

You must notify us as soon as possible after the discovery of any hazards or any other information that was not provided to us prior to the acceptance of this policy.

**S. Hired Auto - World Wide Coverage**

Paragraph (5)(a) of the **Policy Period, Coverage Territory Condition** is replaced by the following:

- (a) A covered "auto" is leased, hired, rented or borrowed for a period of 60 days or less; and

**T. Bodily Injury Redefined**

The definition of "bodily injury" in the **Definitions Section** is replaced by the following:

"Bodily injury" means bodily injury, sickness or disease, sustained by a person including death or mental anguish, resulting from any of these at any time. Mental anguish means any type of mental or emotional illness or disease.

All other terms and conditions of this policy remain unchanged.

**WAIVER OF OUR RIGHT TO RECOVER FROM OTHERS ENDORSEMENT**

We have the right to recover our payments from anyone liable for an injury covered by this policy. We will not enforce our right against the person or organization named in the Schedule. (This agreement applies only to the extent that you perform work under a written contract that requires you to obtain this agreement from us.)

This agreement shall not operate directly or indirectly to benefit anyone not named in the Schedule.

Schedule

**ANY PERSON OR ORGANIZATION FOR WHOM YOU ARE REQUIRED BY WRITTEN CONTRACT OR AGREEMENT TO OBTAIN THIS WAIVER OF RIGHTS FROM US.**

This endorsement changes the policy to which it is attached and is effective on the date issued unless otherwise stated.  
(The information below is required only when this endorsement is issued subsequent to preparation of the policy.)  
Endorsement Effective 01/01/2017      Policy No. WC 3730966-07      Endorsement No.

Insured GREEN COMPANIES, INC.

Premium \$

Insurance Company ZURICH AMERICAN INSURANCE CO.

Countersigned By *Karen D. Keston*

WC 00 03 13  
(Ed. 4-84)

Copyright 1983 National Council on Compensation Insurance

EXHIBIT "E"

DRUG POLICY COMPLIANCE AGREEMENT

I, Stephen A. Sparks Vice President as an owner or officer of  
(Name) (Print/Type) (Title)  
HR Green, Inc. (Engineer)  
(Name of Company)

have authority to bind Engineer with respect to its bid, offer or performance of any and all contracts it may enter into with the City of Houston; and that by making this Agreement, I affirm that the Engineer is aware of and by the time the contract is awarded will be bound by and agree to designate appropriate safety impact positions for company employee positions, and to comply with the following requirements before the City issues a Notice to Proceed:

1. Develop and implement a written Drug Free Workplace Policy and related drug testing procedures for the Engineer that meet the criteria and requirements established by the Mayor's Amended Policy on Drug Detection and Deterrence (Mayor's Drug Policy) and the Mayor's Drug Detection and Deterrence Procedures for Engineers (Executive Order No. 1-31).
2. Obtain a facility to collect urine samples consistent with Health and Human Services (HHS) guidelines and a HHS certified drug testing laboratory to perform the drug tests.
3. Monitor and keep records of drug tests given and the results; and upon request from the City of Houston, provide confirmation of such testing and results.
4. Submit semi-annual Drug Policy Compliance Declarations.

I affirm on behalf of the Engineer that full compliance with the Mayor's Drug Policy and Executive Order No. 1-31 is a material condition of the contract with the City of Houston.

I further acknowledge that falsification, failure to comply with or failure to timely submit declarations and/or documentation in compliance with the Mayor's Drug Policy and/or Executive Order No. 1-31 will be considered a breach of the contract with the City and may result in non-award or termination of the contract by the City of Houston.

9/26/17  
Date

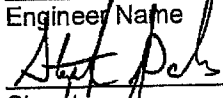
Stephen A. Sparks  
Engineer Name  
  
Signature  
Vice President  
Title

EXHIBIT "F"

DRUG POLICY COMPLIANCE DECLARATION

I, Stephen A. Sparks Vice President as an owner or officer of  
(Name) (Print/Type) (Title)  
HR Green, Inc. (Engineer)  
(Name of Company)

have personal knowledge and full authority to make the following declarations:

This reporting period covers the preceding six months from 3/26 to 9/26, 2017.

SS  
Initials A written Drug Free Workplace Policy has been implemented and employees notified. The policy meets the criteria established by the Mayor's Amended Policy on Drug Detection and Deterrence (Mayor's Policy).

SS  
Initials Written drug testing procedures have been implemented in conformity with the Mayor's Drug Detection and Deterrence Procedures for Engineers, Executive Order No. 1-31. Employees have been notified of such procedures.

SS  
Initials Collection/testing has been conducted in compliance with federal Health and Human Services (HHS) guidelines.

SS  
Initials Appropriate safety impact positions have been designated for employee positions performing on the City of Houston contract. The number of employees in safety impact positions during this reporting period is 0.

SS  
Initials From 3/26/17 to 9/26/17 the following test has occurred  
(Start date) (End date)

	Random	Reasonable Suspicion	Post Accident	Total
Number Employees Tested	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
Number Employees Positive	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
Percent Employees Positive	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>

SS  
Initials Any employee who tested positive was immediately removed from the City worksite consistent with the Mayor's Policy and Executive Order No. 1-31.

SS  
Initials I affirm that falsification or failure to submit this declaration timely in accordance with established guidelines will be considered a breach of contract.

I declare under penalty of perjury that the affirmations made herein and all information contained in this declaration are within my personal knowledge and are true and correct.

9/26/17  
(Date)

Stephen A. Sparks  
(Typed or Printed Name)  
[Signature]  
(Signature)  
Vice President  
(Title)

EXHIBIT "G"

ENGINEER'S CERTIFICATION  
OF NO SAFETY IMPACT POSITIONS  
IN PERFORMANCE OF A CITY CONTRACT

I, Stephen A. Sparks, Vice President  
(Name) (Title)

as an owner or officer of HR Green, Inc. (Engineer)  
(Name of Company)

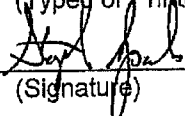
have authority to bind the Engineer with respect to its bid, and hereby certify that Engineer has no employee safety impact positions, as defined in §5.18 of Executive Order No. 1-31, that will be involved

in performing DR15 SWAT 4A Northside/Northline Drainage and Paving  
(Project)

Engineer agrees and covenants that it shall immediately notify the City of Houston Director of Personnel if any safety impact positions are established to provide services in performing this City Contract.

9/26/17  
(Date)

Stephen A. Sparks  
(Typed or Printed Name)

  
(Signature)

Vice President  
(Title)



EXHIBIT "H"

SUBCONTRACTOR'S ASSIGNMENT OF COPYRIGHT

1. Engineer has entered into a Contract with the CITY OF HOUSTON, TEXAS ("City") to provide professional engineering services as well as related support and consulting services ("Services").
2. Subcontractor is or will be providing services for Engineer related to its Contract with the City.
3. In the course of Subcontractor's work for Engineer related to the provision of Services to the City, Contract Documents and other work products will be produced by Subcontractor for the benefit of the City for which Subcontractor will be compensated by Engineer.
4. Contract Documents include but are not limited to reports, charts, analyses, maps, letters, tabulations, computer programs, exhibits, notes, models, photographs, the original transparencies of all drawings, all graphic and written information prepared or assembled by Subcontractor and all other work products obtained or prepared by Subcontractor as part of its services for Engineer.
5. For and in consideration of the foregoing, the Subcontractor shall grant and assign and hereby does grant and assign to the City all right, title, interest and full ownership worldwide in and to any work, invention and all Contract Documents, or any modifications or improvements to them, and the copyrights, patents, trademarks, trade secrets and any other possessory or proprietary rights therein, that are discovered, conceived, developed, written or produced by the Subcontractor, its agents and employees pursuant to its contract with Engineer (collectively "Works"), to have and to hold the same unto the City absolutely.
6. The Subcontractor agrees that neither it nor any of its agents and employees shall have any right to assert or establish a claim or exercise any of the rights embodied in any copyrights, patents, trademarks, trade secrets and any other possessory or proprietary rights related to the Works. If requested by the Engineer, the Subcontractor shall place a conspicuous notation upon any such Works which indicates that the copyright, patent, trademark or trade secret thereto is owned by the City of Houston.
7. The Subcontractor shall execute all documents required by the Engineer and the Director of the Department of Public Works and Engineering of the City ("Director") to further evidence such assignment and ownership. The Subcontractor shall cooperate with the Engineer and the City in registering, creating or enforcing any copyrights, patents, trademarks, trade secrets or other possessory or proprietary rights arising hereunder. If any assistance by the Subcontractor is requested and rendered pursuant to this Section, the City shall reimburse the Subcontractor for all out-of-pocket expenses incurred by the Subcontractor in rendering such assistance, subject to the availability of funds. On termination of the Subcontractor's contract with Engineer or upon request by the Director, the Subcontractor shall deliver all Works to the City. The Subcontractor agrees that its agents and employees performing work hereunder are bound by the terms of this Exhibit.

IN WITNESS WHEREOF, Subcontractor has executed this Assignment as of this 27 day of September, 2017.

Subcontractor

  
By: Hossam Esmail, PE  
Title: Senior Vice President

M-420HUD-004A-3

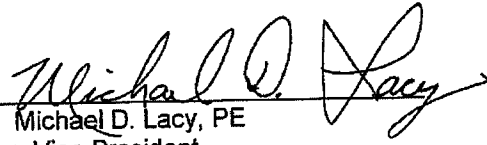
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4. Contract Documents include but are not limited to reports, charts, analyses, maps, letters, tabulations, computer programs, exhibits, notes, models, photographs, the original transparencies of all drawings, all graphic and written information prepared or assembled by Subcontractor and all other work products obtained or prepared by Subcontractor as part of its services for Engineer.
5. For and in consideration of the foregoing, the Subcontractor shall grant and assign and hereby does grant and assign to the City all right, title, interest and full ownership worldwide in and to any work, invention and all Contract Documents, or any modifications or improvements to them, and the copyrights, patents, trademarks, trade secrets and any other possessory or proprietary rights therein, that are discovered, conceived, developed, written or produced by the Subcontractor, its agents and employees pursuant to its contract with Engineer (collectively "Works"), to have and to hold the same unto the City absolutely.
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7. The Subcontractor shall execute all documents required by the Engineer and the Director of the Department of Public Works and Engineering of the City ("Director") to further evidence such assignment and ownership. The Subcontractor shall cooperate with the Engineer and the City in registering, creating or enforcing any copyrights, patents, trademarks, trade secrets or other possessory or proprietary rights arising hereunder. If any assistance by the Subcontractor is requested and rendered pursuant to this Section, the City shall reimburse the Subcontractor for all out-of-pocket expenses incurred by the Subcontractor in rendering such assistance, subject to the availability of funds. On termination of the Subcontractor's contract with Engineer or upon request by the Director, the Subcontractor shall deliver all Works to the City. The Subcontractor agrees that its agents and employees performing work hereunder are bound by the terms of this Exhibit.

IN WITNESS HEREOF, Subcontractor has executed this Assignment as of this 26 day of September, 2017.

Subcontractor, **KIT PROFESSIONALS, INC.**

  
By: Michael D. Lacy, PE  
Title: Vice President

M-420HUD-004A-3

EXHIBIT "H"

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5. For and in consideration of the foregoing, the Subcontractor shall grant and assign and hereby does grant and assign to the City all right, title, interest and full ownership worldwide in and to any work, invention and all Contract Documents, or any modifications or improvements to them, and the copyrights, patents, trademarks, trade secrets and any other possessory or proprietary rights therein, that are discovered, conceived, developed, written or produced by the Subcontractor, its agents and employees pursuant to its contract with Engineer (collectively "Works"), to have and to hold the same unto the City absolutely.
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IN WITNESS WHEREOF, Subcontractor has executed this Assignment as of this 27<sup>th</sup> day of September, 2017.

Subcontractor

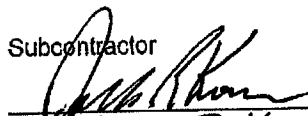
  
By: John R. Kovski, PE.  
Title: Houston Office Manager  
EJES Incorporated

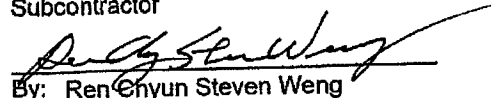
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3. In the course of Subcontractor's work for Engineer related to the provision of Services to the City, Contract Documents and other work products will be produced by Subcontractor for the benefit of the City for which Subcontractor will be compensated by Engineer.
4. Contract Documents include but are not limited to reports, charts, analyses, maps, letters, tabulations, computer programs, exhibits, notes, models, photographs, the original transparencies of all drawings, all graphic and written information prepared or assembled by Subcontractor and all other work products obtained or prepared by Subcontractor as part of its services for Engineer.
5. For and in consideration of the foregoing, the Subcontractor shall grant and assign and hereby does grant and assign to the City all right, title, interest and full ownership worldwide in and to any work, invention and all Contract Documents, or any modifications or improvements to them, and the copyrights, patents, trademarks, trade secrets and any other possessory or proprietary rights therein, that are discovered, conceived, developed, written or produced by the Subcontractor, its agents and employees pursuant to its contract with Engineer (collectively "Works"), to have and to hold the same unto the City absolutely.
6. The Subcontractor agrees that neither it nor any of its agents and employees shall have any right to assert or establish a claim or exercise any of the rights embodied in any copyrights, patents, trademarks, trade secrets and any other possessory or proprietary rights related to the Works. If requested by the Engineer, the Subcontractor shall place a conspicuous notation upon any such Works which indicates that the copyright, patent, trademark or trade secret thereto is owned by the City of Houston.
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IN WITNESS WHEREOF, Subcontractor has executed this Assignment as of this 26 day of September, 2017.

Subcontractor


  
By: Ren Chyun Steven Weng  
Title: Vice President

M-420HUD-004A-3

EXHIBIT "I"  
FORM POP 2  
CERTIFICATION OF COMPLIANCE WITH  
PAY OR PLAY PROGRAM

Available at <http://www.houstontx.gov/obo/popforms.html>

M-420HUD-004A-3

 Contractor (Signature)	07/03/12 Date
Stephen A. Sparks - Vice President	
Name and Title (Print or type)	00630 07-03-2012

20PLO7

20PLO7

Houston Public Works					
DATE RECEIVED:				APR 1 19 5:22PM	
FROM:	TO:				
CAS	Dargan, E	X			
CP	X Roel G.	X			
FIN	Haddock, C	X			
HPC					
HW					
TDO					
Other:					
Director's Item #:	19-0175				
			ROUTINE	RUSH	
Status			X		
Contact	Jamie Cedillo				
Phone	152239				
FOR DIRECTOR'S USE ONLY					
Anticipated Council Date: 4-24-19					
Need RCA Signed By: 4-24-19					

4-24

BB  
4.2.19