HOUSTON KASHMERE GARDENS AREA FLOOD MITIGATION



Scope of Work	The project area is located in the eastern half of the Kashmere Gardens neighborhood, bounded by Wipprech St. on the west, Liberty Rd. on the south, Homestead Rd. on the east, and Hunting Bayou on the north. The project includes major storm sewer improvements beneath Wipprecht St., Pickfair St., Crane St., Lockwood Dr., Marcus St., Dabney St., Rand St., and Cavalcade St., improvements to roadside ditch systems and culverts east of Channel H110-00-00, and sewer inlet replacement in the area southwest of Channel H110-00-00. Green storm water infrastructure improvements will be constructed in the western portion of the project area. The project will also include construction of detention basins that will incorporate pedestrian trails and green space amenities.
Budget	\$94,235,560
Sources of Funding	Community Development Block Grant (CDBG) Mitigation and Dedicated Drainage and Street Reconstruction Fund (DDSRF)



Project SCOPE OF WORK

Section 1 of 3: Project Scope of Work



Hazard Mitigation

The Houston Kashmere Gardens Area Flood Mitigation Project will address risks associated with hurricanes/tropical storms/tropical depressions in the Kashmere Gardens area.

The Houston Kashmere Gardens Area Flood Mitigation Project will reduce the long-term risk of loss of life, injury, damage to and loss of property, and suffering and hardship by more rapidly conveying water from the identified service areas to reduce flooding. Dynamic hydraulic and hydrologic (H&H) modeling was used to identify existing ponding impacts and illustrate the benefits of reduced ponding associated with the proposed project.

The H&H modeling identified flooding issues under existing conditions, including structures inundated and ponding above the curb (6 inches of water) that impacts safe roadway mobility. The impacts are further validated by other data points including FEMA National Flood Insurance Program (NFIP) data, FEMA Individual Assistance (IA) data, and/or calls for service.

The Kashmere Gardens Area neighborhood drainage infrastructure was constructed beginning in the 1930's. Harris County Flood Control (HCFCD) Channel H110-00-00 provides drainage for much of the area, conveying water to Hunting Bayou. The existing drainage system is a mix of curb and gutter and roadside ditch systems and provides less than 2-year level of service (LOS) under Atlas 14 rainfall. The H&H models show that 1,389 properties are inundated in the 100-year rain event, and 16.7 miles of street experience more than 6 inches of water.

The proposed project will replace and improve existing storm sewers, convert some existing roadside ditches to curb and gutter with storm sewers, improve existing roadside ditches and driveway culverts, and replace existing inlets with larger inlets. The proposed improvements will increase the capacity of the existing system, increasing the LOS to 50-year, reduce ponding on 14.1 miles of street, and remove 1,392 properties from flood risk. Green storm water infrastructure will also be constructed to supplement grey infrastructure improvements to increase the overall drainage benefits in the area. Detention basins will be constructed to mitigate the proposed infrastructure improvements, and these basins will include park amenities and trails.

Project Summary

- Proposed Improvements
- Replace or improve storm sewer systems on the following streets:
 - Wipprecht Street, Collingsworth St. Hunting Bayou

- 482 LF of 24" RCP
- 4,560 LF of 12'x8' RCB
- 4 junction boxes
- 32 Type "BB" inlets
- 16 48" manholes
- 15,763 SY of 11" reinforced concrete pavement
- 5,500 SF 6" concrete driveway replacement
- 9,795 LF of 6" concrete curb
- 39,728 SF of sidewalk replacement/improvement
- Marcus Street, Lockwood Dr. Channel H110-00-00
 - 30 LF of 24" RCP
 - 1,048 LF of 6'x4' RCB
 - 1 12'x12' junction box
 - 2 Type "BB" inlets
 - 1 Type "C" manhole
 - 2,044 SY of 11" reinforced concrete pavement
 - 4,250 SF 6" concrete driveway replacement
 - 1,510 LF of 6" concrete curb
 - 7,450 SF of sidewalk replacement/improvement
- Lockwood Drive, Crane St. Marcus St.
 - 820 LF of 24" RCP
 - 2,338 LF of 6'x4' RCB
 - 4 junction boxes
 - 16 Type "BB" inlets
 - 4 Type "C" manholes
 - 13,500 SY of 11" reinforced concrete pavement
 - 7,931 SF 6" concrete driveway replacement
 - 9,167 LF of 6" concrete curb
 - 17,581 SF of sidewalk replacement/improvement
- Crane Street, Pickfair St. Lockwood Dr.
 - 380 LF of 6'x3' RCB
 - 4 junction boxes
 - 1,664 SY of 11" reinforced concrete pavement
 - 4,837 SF 6" concrete driveway replacement
 - 1,220 LF of 6" concrete curb
 - 6,250 SF of sidewalk replacement/improvement
- Pickfair Street, Crane St. Collingsworth St.
 - 283 LF of 24" RCP
 - 1,218 LF of 6'x3' RCB
 - 5 junction boxes
 - 10 Type "BB" inlets
 - 2 Type "C" manholes
 - 4,567 SY of 11" reinforced concrete pavement
 - 6,159 SF 6" concrete driveway replacement

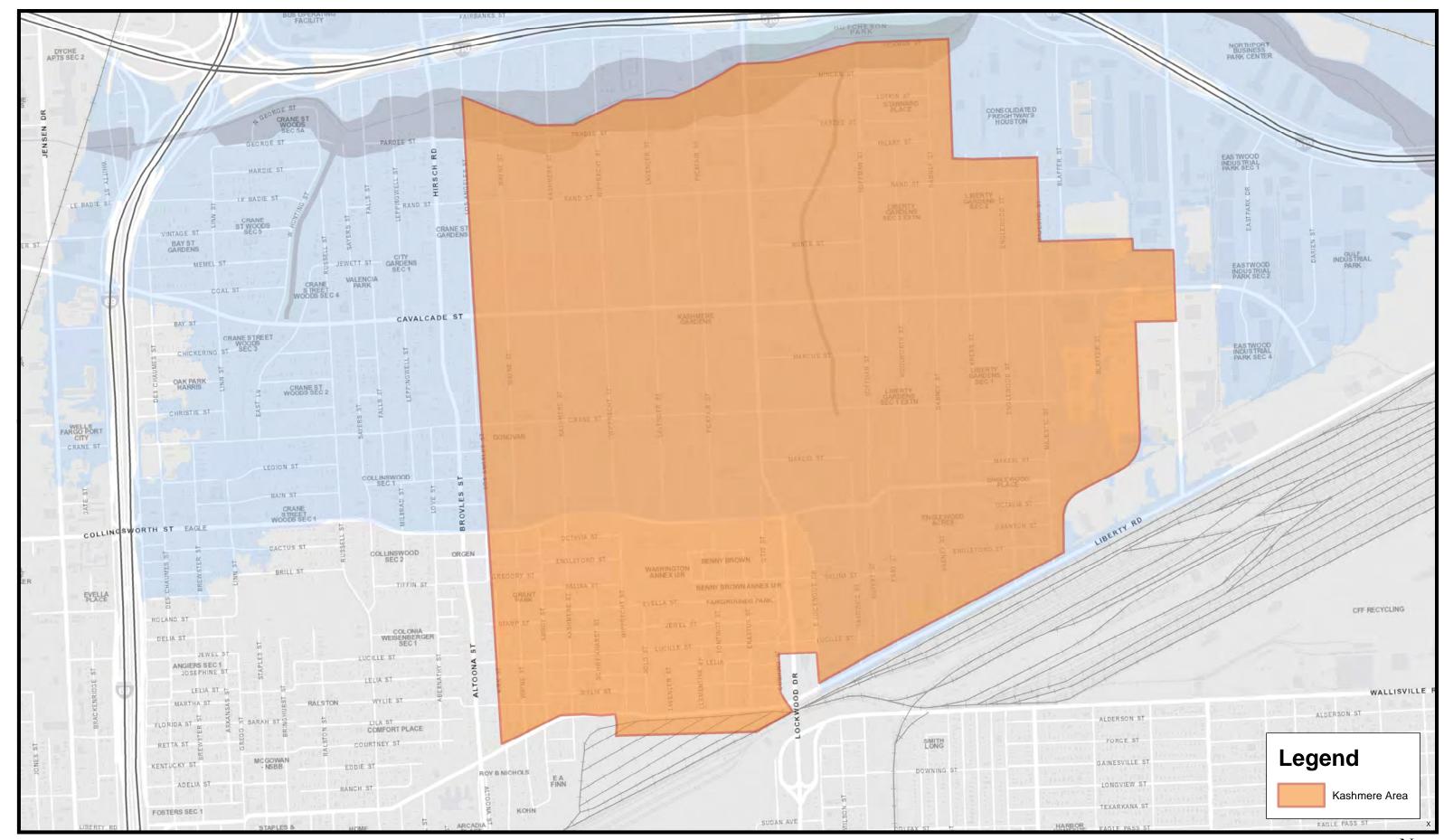
- 2,974 LF of 6" concrete curb
- 13,448 SF of sidewalk replacement/improvement
- o Cavalcade Street, Dabney St. Blaffer St.
 - 250 LF of 36" RCP
 - 1,831 LF of 10'x5' RCB
 - 1 junction boxes
 - 8 Type "BB" inlets
 - 5 Type "C" manholes
 - 14,123 SY of 11" reinforced concrete pavement
 - 5,030 SF 6" concrete driveway replacement
 - 7,542 LF of 6" concrete curb
 - 16,445 SF of sidewalk replacement/improvement
- Hoffman Street, makeig St. Crane St.
 - 42 LF of 24" RCP
 - 375 LF of 54" RCP
 - 2 Type "BB" inlets
 - 2 48" manholes
 - 750 SY of 11" reinforced concrete pavement
 - 350 SF 6" concrete driveway replacement
 - 283 LF of 6" concrete curb
 - 2,850 SF of sidewalk replacement/improvement
- Dabney Street, Crane St. Hunting Bayou
 - 240 LF of 24" RCP
 - 4,168 LF of 10'x8' RCB
 - 6 junction boxes
 - 22Type "BB" inlets
 - 4 48" manholes
 - 13,968 SY of 11" reinforced concrete pavement
 - 4,200 SF 6" concrete driveway replacement
 - 8,966 LF of 6" concrete curb
 - 38,404 SF of sidewalk replacement/improvement
- o Rand Street, Dabney St. Majestic St.
 - 225 LF of 24" RCP
 - 1,350 LF of 36" RCP
 - 14 Type "BB" inlets
 - 10 Type "C" manholes
 - 4,596 SY of 11" reinforced concrete pavement
 - 560 SF 6" concrete driveway replacement
 - 2,902 LF of 6" concrete curb
 - 12,859 SF of sidewalk replacement/improvement
- Replace existing Type "B" inlets with Type "BB" inlets on the following streets:
 - Octavia Street, Schweikhardt St. Wipprecht St.
 - Engleford Street, Schweikhardt St. Wipprecht St.
 - Salina Street, Schweikhardt St. Wipprecht St.

- Jewel Street, Wipprecht St. Cushing St.
- o Lucille Street, Wipprecht St. Cushing St.
- Wylie Street, Fontinot St. Cushing St.
- Liberty Street, Wipprecht St. Cushing St.
- Wipprecht Street, Collingsworth St. Octavia St.
- Solo Street, Wylie St. Liberty St.
- Pickfair Street, Collingsworth St. Engleford St.
- Fontinot Street, Evella St. Lelia St.
- Erastus Street, Salina St. Liberty St.
- Desilt and improve existing roadside ditches, replace culverts, and repair disturbed driveways on the following streets:
 - Schweikhardt Street, Lelia St. Octavia St.
 - Octavia Street, Schweikhardt St. Wipprecht St.
 - Engleford Street, Schweikhardt St. Wipprecht St.
 - Engleford Street, 3rd St. Erastus St.
 - Salina Street, Lockwood Dr. Rupert St.
 - Lucille Street, Cushing St. Rupert St.
 - Sakowitz Street, Liberty Rd. Makeig St.
 - Makeig Street, Lockwood Dr. Majestic St.
 - Hoffman Street, Collingsworth St. Hunting Bayou
 - Rupert Street, Liberty Rd. Collingsworth St.
 - o Easy Street, Liberty Rd. Makeig St.
 - Woolworth Street, Makeig St. Hilary St.
 - Dabney Street, Liberty Rd. Crane St.
 - Englewood Street, Liberty Rd. Rand St.
 - Majestic Street, Liberty Rd. Rand St.
 - Salina Street, west of Englewood St.
 - Granton Street, Englewood St. Majestic St.
 - Octavia Street, Englewood St. Majestic St.
 - Makeig Street, Majestic St. Kress St.
 - Marcus Street, Lockwood Dr. Hoffman St.
 - Bunte Street, Lockwood Dr. Hoffman St.
 - Rand Street, Lockwood Dr. Dabney St.
 - Hilary Street, Hoffman St. Dabney St.
 - Pardee Street, Lockwood Dr. Dabney St.
 - Lufkin Street, Hoffman St. Dabney St.
 - Minden Street, Channel H110-00-00 to Dabney St.
- Construct the following dry-bottom detention facility with green space, pedestrian trail, and amenities to contribute to the overall required mitigation volume of 55 acre-feet:
 - Detention Basin A, 21.72 acre-feet (8 feet deep)
 - Detention Pond C, 4.05 acre-feet (7 feet deep)
 - Detention Pond F, 4.38 acre-feet (8 feet deep)
 - Detention Pond K, 2.37 acre-feet (10 feet deep)

- Detention Pond M, 3.78 acre-feet (5 feet deep)
- Detention Pond N, 4.99 acre-feet (7 feet deep)
- Detention Pond Q, 10.30 acre-feet (11 feet deep)
- Detention Pond R, 13.35 acre-feet (10 feet deep)
- Install green stormwater infrastructure on the following streets:
 - Cavalcade Street, Pickfair St. H110-00-00
 - 1,555 LF of structured rain gardens
 - 1,111 SY of landscape improvements
 - 17 concrete drive replacements with culverts
 - 1,037 SY of sidewalk replacement
 - 4 ADA ramps
 - o Lockwood Drive, Liberty Rd. Hunting Bayou
 - 10,000 LF of structured rain gardens
 - 124 concrete drive replacements with culverts
 - Crane Street, Hirsch St. Lockwood Dr.
 - 4,898 LF of ditch improvements
 - 8,980 SY of landscape improvements
 - 43 concrete drive replacements with culverts
 - 2,060 SY of sidewalk replacement
 - 12 ADA ramps
 - Los Angeles Street, Collingsworth St. IH-610
 - 8,724 LF of ditch improvements
 - 20,356 SY of landscape improvements
 - 95 concrete drive replacements with culverts
 - 1,483 SY of sidewalk replacement
 - 22 ADA ramps
 - Wayne Street, Liberty Rd. IH-610
 - 12,230 LF of ditch improvements
 - 24,460 SY of landscape improvements
 - 124 concrete drive replacements with culverts
 - 2,698 SY of sidewalk replacement
 - 40 ADA ramps
 - Kashmere Street, Liberty Rd. IH-610
 - 11,944 LF of ditch improvements
 - 26,542 SY of landscape improvements
 - 163 concrete drive replacements with culverts
 - 1,031 SY of sidewalk replacement
 - 52 ADA ramps

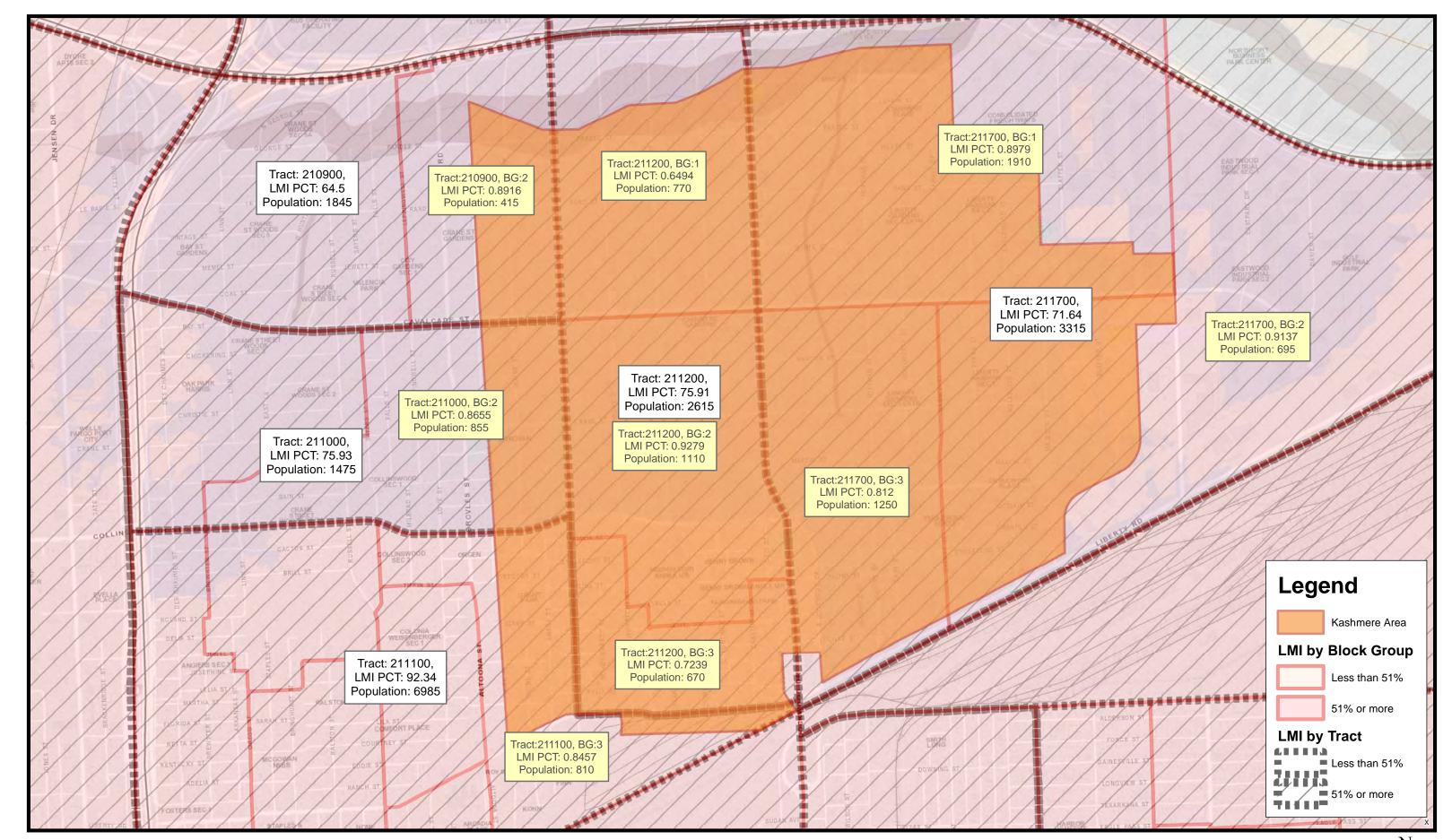
MAPPING Section 2 of 3: Mapping













& SOURCES OF FUNDING

Section 3 of 3: Budget and Sources of Funding



	KASHMERE GARDENS
Grand Total	\$94,235,560.10

		FUN	DING SOURCES	S
BUDGET CATEGORIES	Estimated Cost		Local	CDBG-MIT
Construction	\$ 71,346,897.72	\$	713,468.98	\$ 70,633,428.74
Engineering	\$ 10,702,034.66	\$	107,020.35	\$ 10,595,014.31
Acquisition	\$ 3,625,000.00	\$	36,250.00	\$ 3,588,750.00
Environmental	\$ 4,280,813.86	\$	42,808.14	\$ 4,238,005.72
Administration	\$ 4,280,813.86	\$	42,808.14	\$ 4,238,005.72
TOTAL	\$ 94,235,560.10	\$	942,355.60	\$ 93,293,204.50



CDBG-MIT: Budget Justification of Retail Costs (Former Table 2)

Cost Verification Controls must be in place to assure that construction costs are reasonable and consistent with market costs at the time and place of construction.

Cost Verification Controls must be in place	,			asonasic and cor	13130	ene with market tos	at the time and	place	. or construction.
Applicant/Subrecipient:		of Houston							
Site/Activity Title:	City	of Houston Kashr	nere Gardens Dra	ainage Improvem	ents	- Drainage Improve	ments		
Eligible Activity:	Flood	d control and dra	inage improveme	ents					
Materials/Facilities/Services		\$/Unit	Unit	Quantity		Construction	Acquisition		Total
		Wipprecht Stre	et (Collingswortl	n Street to Huntii	ng B	ayou - P1)			
Mobilization	\$	800,000.00	LS	1	\$	800,000.00	\$ -	\$	800,000.00
Traffic Control & Regulation	\$	350,000.00	LS	1	\$	350,000.00	\$ -	\$	350,000.00
SWPPP	\$	120,000.00	LS	1	\$	120,000.00	\$ -	\$	120,000.00
Tree Mitigation	\$	65,000.00	LS	1	\$	65,000.00	\$ -	\$	65,000.00
Adjusting Manholes, inlets, and valve boxes									
to grade	\$	750.00	EA	14	\$	10,500.00	\$ -	\$	10,500.00
Service stubs or reconnections with or									
without stack on sanitary sewer	\$	70.00		1855	\$	129,850.00	\$ -	\$	129,850.00
48-Inch Diameter Manhole for RCB	\$	4,200.00	EA	16	\$	67,200.00	\$ -	\$	67,200.00
Remove and Dispose Manholes all									
Sizes/Depth	\$	900.00	EA	11	\$	9,900.00	\$ -	\$	9,900.00
Adjust Manhole Frame and Cover to New									
Grade	\$	750.00	EA	2	\$	1,500.00	\$ -	\$	1,500.00
Remove and Dispose Inlets all Sizes/Depth									
nemove and propose mileto an oraco, popul	\$	600.00	EA	16	\$	9,600.00	\$ -	\$	9,600.00
Remove and Dispose Culvert 12" to 18"	l.		_		١,			1.	
·	\$	12.00	LF	555	\$	6,657.60	\$ -	\$	6,657.60
Remove and Dispose Storm Pipe 24-Inch									
Diameter	\$	12.00	LF	851	\$	10,212.00	\$ -	\$	10,212.00
Remove and Dispose Storm Pipe 30-Inch	١.				١.			Ι.	
Diameter	\$	14.00	LF	406	\$	5,684.00	\$ -	\$	5,684.00
Remove and Dispose Storm Pipe 36-Inch			_					١.	
Diameter	\$	16.00	LF	1720	\$	27,520.00	\$ -	\$	27,520.00
Remove and Dispose Storm Pipe 42-Inch	_		l		_				
Diameter	\$	18.00	LF	303	Ş	5,454.00	\$ -	\$	5,454.00
Trench Safety System for Storm Sewer	_			5043	_	25 240 00	A	_	25 240 00
Trench Excavation	\$	5.00		5042		25,210.00 72,000.00		\$	25,210.00
Junction Box	Þ	18,000.00	EA	4	Ş	72,000.00	\$ -	Þ	72,000.00
24-inch Diameter Storm Sewer by open cut	\$	85.00	1.5	482	۲.	40.070.00	ć	,	40.070.00
12' x 8' RCB	\$	1,220.00		4560		40,970.00 5,563,200.00		\$	40,970.00 5,563,200.00
Type "BB" Inlet	\$	3,800.00		32	_	121,600.00		\$	121,600.00
Remove/Dispose Pavement with Base 12	ې	3,800.00	LA	32	Ą	121,000.00	· -	۲	121,000.00
inch Thick	\$	7.00	sv	15763	¢	110,344.11	\$ -	\$	110,344.11
Excavation & Haul off	\$	15.00		6800		102,000.00	•	\$	102,000.00
Lime Stabilized Subgrade 8-inch Thick	\$	4.00		15763	•	63,053.78		\$	63,053.78
Lime for Lime Stabilized Subgrade (Dry	7	4.00	31	13703	7	03,033.70	7	Ť	03,033.70
Weight)	\$	150.00	TON	284	\$	42,561.30	\$ -	\$	42,561.30
Reinforced Concrete Pavement 11-inch	7	130.00	1011	204	7	42,301.30	-	Ť	42,301.30
Thick	\$	70.00	SY	15763	Ś	1,103,441.11	\$ -	\$	1,103,441.11
Concrete Driveways Including Excavation 6-		70.00		23700	7	1,100,11111	Ψ	Ť	1,100,11111
inch Thick	\$	10.00	SF	5500	Ś	55,000.00	\$ -	\$	55,000.00
6-Inch Concrete Curb (Monolithic)	\$	18.00		9795		176,310.00		\$	176,310.00
Sidewalk 4-1/2-Inch Thick	\$	6.50		39278		255,307.00		\$	255,307.00
Wheelchair Ramps and Sidewalks,					Ė	,	•	T	,
Complete in Place	\$	20.00	SF	120	\$	2,400.00	\$ -	\$	2,400.00
8-Inch Diameter Water Line by Open-Cut									
with Restrained Joints	\$	110.00	LF	61	\$	6,710.00	\$ -	\$	6,710.00
6-Inch Diameter Water Line by Open-Cut									-
with Restrained Joints	\$	80.00	LF	67	\$	5,360.00	\$ -	\$	5,360.00
3/4-Inch to 1-Inch Diameter Water Taps									<u></u>
and Copper Service Line with Meter Box,									
Short Side	\$	900.00	EA	54	\$	48,600.00	\$ -	\$	48,600.00
3/4-Inch to 1-Inch Diameter Water Taps								1	
and Copper Service Line with Meter Box,									
Long Side	\$	1,250.00		50	-	62,500.00	\$ -	\$	62,500.00
		Marcus Street	(Lockwood Drive	e to Channel H11	0-00	0-00 - P2)			

Mobilization	\$	100,000.00	lıs	1	\$	100,000.00	\$		\$	100,000.00
Traffic Control & Regulation	\$	45,000.00		1	\$	45,000.00	\$		\$	45,000.00
SWPPP	\$	15,000.00	1	1	_	15,000.00	\$	_	\$	15,000.00
Tree Mitigation	\$	8,000.00		1		8,000.00	\$	-	\$	8,000.00
Adjusting Manholes, inlets, and valve boxes	7	5,000.00		_		5,555.55	т.		7	2,000.00
to grade	\$	750.00	EA	1	\$	750.00	\$	-	\$	750.00
Service stubs or reconnections with or	-				7		т.		T	, , , , , ,
without stack on sanitary sewer	\$	70.00	LF	180	\$	12,600.00	\$	-	\$	12,600.00
Type C Manhole for 48-Inch Diameter						•				•
Sewers	\$	15,000.00	EA	1	\$	15,000.00	\$	-	\$	15,000.00
Junction Box	\$	18,000.00		1	\$	18,000.00	\$	-	\$	18,000.00
24: 18:										
24-inch Diameter Storm Sewer by open cut	\$	85.00	LF	30	\$	2,550.00	\$	-	\$	2,550.00
6' x 4' RCB	\$	580.00	LF	1048	\$	607,840.00	\$	-	\$	607,840.00
Type "BB" Inlet	\$	3,800.00	EA	2	\$	7,600.00	\$	-	\$	7,600.00
Remove/Dispose Conc Driveway 6-inch										
Thick/More	\$	3.00	SY	472	\$	1,416.63	\$	-	\$	1,416.63
Remove/Dispose Pavement with Base 12										
inch Thick	\$	7.00	SY	2044	\$	14,308.17	\$	-	\$	14,308.17
Excavation & Haul off	\$	15.00	CY	1150	\$	17,250.00	\$	-	\$	17,250.00
Lime Stabilized Subgrade 8-inch Thick	\$	4.00	SY	2044	\$	8,176.10	\$	-	\$	8,176.10
Lime for Lime Stabilized Subgrade (Dry										
Weight)	\$	150.00	TON	37	\$	5,518.87	\$	-	\$	5,518.87
Reinforced Concrete Pavement 11-inch										
Thick	\$	70.00	SY	2044	\$	143,081.70	\$	-	\$	143,081.70
Concrete Driveways Including Excavation 6-	ľ			_			•			-,
inch Thick	\$	10.00	SF	4250	\$	42,498.89	\$	-	\$	42,498.89
6-Inch Concrete Curb (Monolithic)	\$	18.00	LF	1510	Ś	27,179.42	\$	-	\$	27,179.42
Sidewalk 4-1/2-Inch Thick	\$	6.50		7450		48,426.96	\$	-	\$	48,426.96
Wheelchair Ramps and Sidewalks,						· · · · · · · · · · · · · · · · · · ·	·			•
Complete in Place	\$	20.00	SF	80	\$	1,600.00	\$	_	\$	1,600.00
8-Inch Diameter Water Line by Open-Cut						,	,			,
with Restrained Joints	\$	110.00	LF	88	Ś	9,680.00	\$	_	\$	9,680.00
3/4-Inch to 1-Inch Diameter Water Taps	7				7	5,555.55	т.		T	5,000.00
and Copper Service Line with Meter Box,										
Short Side	\$	900.00	EA	7	\$	6,300.00	\$	_	\$	6,300.00
3/4-Inch to 1-Inch Diameter Water Taps							,			-,
and Copper Service Line with Meter Box,										
Long Side	\$	1,250.00	EA	7	\$	8,750.00	Ś	_	\$	8,750.00
Fire Hydrant Assembly, All Depths,	ľ	,					•			-,
Including 6-Inch Diameter Gate Valve and										
Box	\$	10,000.00	EA	1	Ś	10,000.00	Ś	_	\$	10,000.00
				eet to Marcus St	reet					,,,,,,,
Mobilization	\$	320,000.00	LS	1	\$	320,000.00	\$	-	\$	320,000.00
Traffic Control & Regulation	\$	180,000.00	LS	1	\$	180,000.00	\$	-	\$	180,000.00
SWPPP	\$	65,000.00			\$	65,000.00	\$	-	\$	65,000.00
Tree Mitigation	\$	36,000.00	LS	1		36,000.00	\$	-	\$	36,000.00
Adjusting Manholes, inlets, and valve boxes										
to grade	\$	750.00	EA	12	\$	9,000.00	\$	-	\$	9,000.00
Type C Manhole for 48-Inch Diameter						·				Ì
Sewers	\$	15,000.00	EA	4	\$	60,000.00	\$	-	\$	60,000.00
Remove and Dispose Manholes all		•				•				•
Sizes/Depth	\$	900.00	EA	6	\$	5,400.00	\$	_	\$	5,400.00
Adjust Manhole Frame and Cover to New				_			,			-,
Grade	\$	750.00	EA	2	\$	1,500.00	\$	_	\$	1,500.00
	7			_	7		т.		T	_,
Remove and Dispose Inlets all Sizes/Depth	\$	600.00	EA	10	Ś	6,000.00	\$	-	\$	6,000.00
Remove and Dispose Storm Pipe 24-Inch	Ψ	000.00			~	0,000.00	Ψ		Ÿ	0,000.00
Diameter	\$	12.00	LF	1011	Ś	12,132.00	\$	_	\$	12,132.00
Junction Box	\$	18,000.00			\$	54,000.00	_	_	\$	54,000.00
	7	10,000.00	1		_	3 .,300.00	7		<i>-</i>	3 .,000.00
24-inch Diameter Storm Sewer by open cut	\$	85.00	l F	820	Ś	69,700.00	\$	_	\$	69,700.00
6' x 4' RCB	\$	580.00		2338		1,356,040.00	\$		\$	1,356,040.00
Type "BB" Inlet	\$	3,800.00	1	16	_	60,800.00	\$	_	\$	60,800.00
Remove/Dispose Conc Driveway 6-inch	7	3,000.00		10	7	50,000.00	7		Ť	55,555.50
	۱.		cv	001	\$	2,643.51	\$	_	\$	2,643.51
Thick/More	S	3 00		881						
Thick/More Remove/Dispose Pavement with Base 12	\$	3.00	31	881	Ş	2,043.31	۲		Ą	2,043.31
Thick/More Remove/Dispose Pavement with Base 12 inch Thick	\$	7.00		13500		94,499.84			\$	94,499.84

Formation 0 Hard aff	Τċ	45.00	lev	1250	۲.	40.750.00	۲.		ć	10.750.00
Excavation & Haul off Lime Stabilized Subgrade 8-inch Thick	\$	15.00 4.00		1250 13500	_	18,750.00 53,999.91	\$	-	\$	18,750.00 53,999.91
	 	4.00	31	13500	Ş	53,999.91	Ş		Ş	53,999.91
Lime for Lime Stabilized Subgrade (Dry	ے ا	150.00	TON	242	۸.	26 440 04	۲,		,	26 440 04
Weight) Reinforced Concrete Pavement 11-inch	\$	150.00	TON	243	Ş	36,449.94	\$		\$	36,449.94
	,	70.00	CV.	12500	٠	044 000 40	,		,	044 000 40
Thick	\$	70.00	SY	13500	>	944,998.40	\$	-	\$	944,998.40
Concrete Driveways Including Excavation 6-					١.		١.		١.	
inch Thick	\$	10.00		7931	·	79,305.35		-	\$	79,305.35
6-Inch Concrete Curb (Monolithic)	\$		LF	9167	<u> </u>		\$	-	\$	165,001.19
Sidewalk 4-1/2-Inch Thick	\$	6.50	SF	17581	\$	114,277.52	\$	-	\$	114,277.52
Wheelchair Ramps and Sidewalks,										
Complete in Place	\$	20.00	SF	160	\$	3,200.00	\$	-	\$	3,200.00
12-Inch Diameter Water Line by Open-Cut										
12-inch blameter water tine by Open-cut	\$	140.00	LF	132	\$	18,480.00	\$	-	\$	18,480.00
3/4-Inch to 1-Inch Diameter Water Taps										
and Copper Service Line with Meter Box,										
Short Side	\$	900.00	EA	18	\$	16,200.00	\$	-	\$	16,200.00
3/4-Inch to 1-Inch Diameter Water Taps										
and Copper Service Line with Meter Box,										
Long Side	\$	1,250.00	EA	20	Ś	25,000.00	Ś	-	\$	25,000.00
Fire Hydrant Assembly, All Depths,	T				7		7		7	
Including 6-Inch Diameter Gate Valve and										
Box	\$	10.000.00	ΕΛ	1	\$	40.000.00	\$	_	\$	40,000.00
ВОХ	۱۶			et to Lockwood D			Ą	<u> </u>	Ą	40,000.00
Mobilization	\$	65,000.00			\$	•	\$		\$	65,000,00
	\$	34.000.00		1	_	65,000.00 34,000.00	\$		\$	65,000.00
Traffic Control & Regulation		- ,			_		_			34,000.00
SWPPP	\$	11,000.00		1	<u> </u>	11,000.00	\$	-	\$	11,000.00
Tree Mitigation	\$	6,500.00	LS	1	\$	6,500.00	\$	-	\$	6,500.00
Adjusting Manholes, inlets, and valve boxes										
to grade	\$	750.00	EA	1	\$	750.00	\$	-	\$	750.00
Service stubs or reconnections with or										
without stack on sanitary sewer	\$	70.00	LF	210	\$	14,700.00	\$	-	\$	14,700.00
6' x 3' RCB	\$	520.00	LF	380	\$	197,600.00	\$	-	\$	197,600.00
Remove/Dispose Conc Driveway 6-inch	\$	3.00	SY	537	\$	1,612.22	\$	-	\$	1,612.22
Remove/Dispose Pavement with Base 12										
inch Thick	\$	7.00	SY	1309	\$	9,160.00	\$	-	\$	9,160.00
Excavation & Haul off	\$	15.00	CY	655	\$	9,825.00	\$	-	\$	9,825.00
Lime Stabilized Subgrade 8-inch Thick	\$	4.00	SY	1664	\$	6,656.00	\$	-	\$	6,656.00
Lime for Lime Stabilized Subgrade (Dry										
Weight)	\$	150.00	TON	30	\$	4,492.80	\$	-	\$	4,492.80
Reinforced Concrete Pavement 11-inch	<u> </u>				Ė	,				•
Thick	\$	70.00	SY	1664	\$	116,480.00	\$	-	\$	116,480.00
Concrete Driveways Including Excavation 6-			-		Ė					,
inch Thick	\$	10.00	CE.	4837	خ	48,366.65	\$	_	\$	48,366.65
6-Inch Concrete Curb (Monolithic)	\$	18.00		1220	_	•			\$	21,960.00
Sidewalk 4-1/2-Inch Thick	\$	6.50		6250	_	40,625.00			\$	40,625.00
	٦	0.50	31	0230	ې	40,023.00	٦		Ą	40,023.00
Wheelchair Ramps and Sidewalks,	ے ا	20.00	c.		,	4 600 00	ے ا		٠	1 600 60
Complete in Place	\$	20.00	SF.	80	\$	1,600.00	\$	-	\$	1,600.00
12-Inch Diameter Water Line by Open-Cut									١.	
	\$	140.00	LF	213	\$	29,820.00	\$	-	\$	29,820.00
3/4-Inch to 1-Inch Diameter Water Taps										
and Copper Service Line with Meter Box,										
Short Side	\$	900.00	EA	5	\$	4,500.00	\$	-	\$	4,500.00
3/4-Inch to 1-Inch Diameter Water Taps										
and Copper Service Line with Meter Box,	1						Ì		I	
Long Side	\$	1,250.00	EA	5	\$	6,250.00	\$	-	\$	6,250.00
12-Inch Diameter Wet Connection	\$	1,600.00	EA	1	\$	1,600.00	\$	-	\$	1,600.00
8-Inch Diameter Wet Connection	\$	1,200.00			\$		_	-	\$	1,200.00
Fire Hydrant Assembly, All Depths,	+	_,	1	†	7	2,200.00	7		<u> </u>	_,200.00
Including 6-Inch Diameter Gate Valve and	1						Ì		I	
Box	\$	10,000.00	FΔ	1	\$	10,000.00	خ		\$	10,000.00
	۲ ا			to Collingsworth			ڊ ا		۲	10,000.00
Mobilization					_		Ċ		ć	150,000,00
Mobilization	\$	150,000.00			\$		\$	-	\$	150,000.00
Traffic Control & Regulation	\$	60,000.00			\$	60,000.00	_	-	\$	60,000.00
SWPPP	\$	25,000.00			\$	25,000.00		-	\$	25,000.00
Tree Mitigation	\$	23,000.00	LS	1	\$	23,000.00	\$	-	\$	23,000.00
Adjusting Manholes, inlets, and valve boxes							Ì		I	
to grade	\$	750.00	EA	2	\$	1,500.00	\$	-	\$	1,500.00

	1		1		,					
Service stubs or reconnections with or	_	70.00		240	_	46,000,00	_		_	46,000,00
without stack on sanitary sewer Type C Manhole for 48-Inch Diameter	\$	70.00	LF	240	\$	16,800.00	\$	-	\$	16,800.00
Sewers	\$	15,000.00	ΕΛ	2	\$	30,000.00	\$	_	\$	30,000.00
Remove and Dispose Manholes all	7	13,000.00			7	30,000.00	7		Ť	30,000.00
Sizes/Depth	\$	900.00	EA	4	\$	3,600.00	\$	_	\$	3.600.00
· ·	7	300.00			7	3,000.00	Ψ		Ť	3,000.00
Remove and Dispose Inlets all Sizes/Depth	\$	600.00	EA	10	\$	6,000.00	\$	-	\$	6,000.00
Remove and Dispose Storm Pipe 24-Inch						•				
Diameter	\$	12.00	LF	1800	\$	21,600.00	\$	-	\$	21,600.00
Junction Box	\$	18,000.00	EA	5	\$	90,000.00	\$	-	\$	90,000.00
24-inch Diameter Storm Sewer by open cut										
, ,	\$	85.00		283		24,055.00	\$	-	\$	24,055.00
6' x 3' RCB	\$	520.00		1218		633,360.00	\$	-	\$	633,360.00
Type "BB" Inlet	\$	3,800.00	EA	10	\$	38,000.00	\$	-	\$	38,000.00
Remove/Dispose Conc Driveway 6-inch										
Thick/More	\$	3.00	SY	684	Ş	2,052.84	\$	-	\$	2,052.84
Remove/Dispose Pavement with Base 12	_	7.00	CV.	45.67	,	24.000.07	,		,	24 000 07
inch Thick Excavation & Haul off	\$	7.00	SY	4567 2650	\$	31,966.67	\$	-	\$	31,966.67
	\$	15.00 4.00	CY SY	4567	\$	39,750.00	\$		\$	39,750.00
Lime Stabilized Subgrade 8-inch Thick Lime for Lime Stabilized Subgrade (Dry	٦	4.00	J1	450/	Ş	18,266.67	ڔ	-	ş	18,266.67
Weight)	\$	150.00	TON	82	\$	12,330.00	\$	_	\$	12,330.00
Reinforced Concrete Pavement 11-inch	7	130.00	. 311	82	_	12,330.00	7		Ť	12,330.00
Thick	Ś	70.00	SY	4567	Ś	319,666.67	\$	_	\$	319,666.67
Concrete Driveways Including Excavation 6-	+	, 5.50		4337	7	323,300.07	-		Ť	223,000.07
inch Thick	\$	10.00	SF	6159	\$	61,585.28	\$	-	\$	61,585.28
6-Inch Concrete Curb (Monolithic)	\$	18.00	LF	2974	\$	53,530.63	\$	-	\$	53,530.63
Sidewalk 4-1/2-Inch Thick	\$	6.50	SF	13448	\$	87,411.48	\$	-	\$	87,411.48
Wheelchair Ramps and Sidewalks,										
Complete in Place	\$	20.00	SF	80	\$	1,600.00	\$	-	\$	1,600.00
8-Inch Diameter Water Line by Open-Cut										
with Restrained Joints	\$	110.00	LF	60	\$	6,600.00	\$	-	\$	6,600.00
3/4-Inch to 1-Inch Diameter Water Taps										
and Copper Service Line with Meter Box,										
Short Side	\$	900.00	EA	10	\$	9,000.00	\$	-	\$	9,000.00
3/4-Inch to 1-Inch Diameter Water Taps										
and Copper Service Line with Meter Box, Long Side	\$	1,250.00	F 4	10	\$	12,500.00	\$		\$	12,500.00
8-Inch Diameter Wet Connection	\$	1,200.00	EA		\$	1,200.00	\$		\$	1,200.00
6-Inch Diameter Wet Connection	\$	1,000.00	EA		\$	1,000.00	\$		\$	1,000.00
Fire Hydrant Assembly, All Depths,	7	1,000.00	2,1	-	7	1,000.00	7		Ť	1,000.00
Including 6-Inch Diameter Gate Valve and										
Box	\$	10,000.00	EA	2	\$	20,000.00	\$	-	\$	20,000.00
				Street to Blaffer S			'		•	.,
Mobilization	\$	450,000.00	LS	1	\$	450,000.00	\$	-	\$	450,000.00
Aluminum Signs (Ground Mounted)-Furnish	1									
& Install	\$	150,000.00	LS	1	\$	150,000.00	\$	-	\$	150,000.00
SWPPP	\$	85,000.00	LS	1	' '	85,000.00	\$	-	\$	85,000.00
Tree Mitigation	\$	25,000.00	LS	1	\$	25,000.00	\$	-	\$	25,000.00
Adjusting Manholes, inlets, and valve boxes					1.		١.			
to grade	\$	750.00	EA	14	\$	10,500.00	\$	-	\$	10,500.00
Trench Safety System for Sanitary Sewer										
Trench Excavation	\$	2.00	LF	3236	\$	6,472.00	\$	-	\$	6,472.00
Service stubs or reconnections with or	_	70.00		000	_	60.440.00	_		_	60.440.00
without stack on sanitary sewer		70.00		992	\$	69,440.00	\$	-	\$	69,440.00
Type C Manhole On Box Culvert	\$	4 200 00			>	21,000.00	\$	-	\$	21,000.00
	\$	4,200.00	EA	3						
Remove and Dispose Storm Pipe 24-Inch	\$	•		250	¢	3 000 00	¢	_	¢	3 000 00
Remove and Dispose Storm Pipe 24-Inch Diameter	\$	12.00	LF	250		3,000.00	\$	-	\$	3,000.00 18,000.00
Remove and Dispose Storm Pipe 24-Inch Diameter Junction Box 10 FTx 10 FT	\$	•	LF	250	\$	3,000.00 18,000.00	\$		\$	3,000.00 18,000.00
Remove and Dispose Storm Pipe 24-Inch Diameter	\$	12.00 18,000.00	LF EA	1	\$	18,000.00			\$	18,000.00
Remove and Dispose Storm Pipe 24-Inch Diameter Junction Box 10 FTx 10 FT	\$ \$	12.00	LF EA LF	250 1 250 250 1831	\$		\$	-		
Remove and Dispose Storm Pipe 24-Inch Diameter Junction Box 10 FTx 10 FT 24-inch Diameter Storm Sewer by open cut	\$ \$	12.00 18,000.00 85.00	LF EA LF	250 1831	\$	18,000.00 21,250.00	\$	-	\$	18,000.00 21,250.00
Remove and Dispose Storm Pipe 24-Inch Diameter Junction Box 10 FTx 10 FT 24-inch Diameter Storm Sewer by open cut 10' x 5' RCB	\$ \$ \$	12.00 18,000.00 85.00 780.00	LF EA LF	250 1831	\$ \$ \$	18,000.00 21,250.00 1,428,180.00	\$ \$	- - -	\$ \$ \$	18,000.00 21,250.00 1,428,180.00
Remove and Dispose Storm Pipe 24-Inch Diameter Junction Box 10 FTx 10 FT 24-inch Diameter Storm Sewer by open cut 10' x 5' RCB Type "BB" Inlet	\$ \$ \$	12.00 18,000.00 85.00 780.00	LF EA LF LF EA	250 1831	\$ \$ \$	18,000.00 21,250.00 1,428,180.00 30,400.00 98,861.00	\$ \$ \$ \$	- - -	\$ \$ \$	18,000.00 21,250.00 1,428,180.00
Remove and Dispose Storm Pipe 24-Inch Diameter Junction Box 10 FTx 10 FT 24-inch Diameter Storm Sewer by open cut 10' x 5' RCB Type "BB" Inlet Remove/Dispose Pavement with Base 12	\$ \$ \$ \$ \$	12.00 18,000.00 85.00 780.00 3,800.00	LF EA LF LF EA	250 1831 8	\$ \$ \$ \$ \$	18,000.00 21,250.00 1,428,180.00 30,400.00	\$ \$ \$ \$ \$ \$ \$	- - -	\$ \$ \$ \$	18,000.00 21,250.00 1,428,180.00 30,400.00

<u> </u>			T	T					1	
Lime for Lime Stabilized Subgrade (Dry		450.00	TON	254	,	20 422 40	<u> </u>		_	20 422 40
Weight) Reinforced Concrete Pavement 11-inch	\$	150.00	ION	254	Ş	38,132.10	\$	-	\$	38,132.10
Thick	\$	70.00	cv	14123	خ .	988,610.00	\$	_	\$	988,610.00
Concrete Driveways Including Excavation 6-	Ş	70.00	31	14125	Ş	900,010.00	Ş		Ş	988,610.00
inch Thick	\$	10.00	SE	5030	¢	50,300.00	\$	_	\$	50,300.00
6-Inch Concrete Curb (Monolithic)	\$		LF	7542	\$	135,756.00	\$	-	\$	135,756.00
Sidewalk 4-1/2-Inch Thick	\$	6.50		16445	<u> </u>	106,892.50	\$	_	\$	106,892.50
Wheelchair Ramps and Sidewalks,	7				т.		т .		Ť	
Complete in Place	\$	20.00	SF	120	\$	2,400.00	\$	-	\$	2,400.00
3/4-Inch to 1-Inch Diameter Water Taps						-				·
and Copper Service Line with Meter Box,										
Short Side	\$	900.00	EA	18	\$	16,200.00	\$	-	\$	16,200.00
3/4-Inch to 1-Inch Diameter Water Taps										
and Copper Service Line with Meter Box,										
Long Side	\$	1,250.00		20		25,000.00	\$	-	\$	25,000.00
				Street to Pond C		•				
Mobilization	\$	22,000.00			\$	22,000.00	\$	-	\$	22,000.00
Traffic Control & Regulation	\$	10,000.00		1		10,000.00	\$	-	\$	10,000.00
SWPPP	\$	8,500.00				8,500.00	\$	-	\$	8,500.00
Tree Mitigation	\$	5,600.00	LS	1	\$	5,600.00	\$	-	\$	5,600.00
Service stubs or reconnections with or	خ	70.00	1.5	0.5	خ .	E 0E0 00	ċ	_	۲	E 0E0 00
without stack on sanitary sewer 48-Inch Diameter Manhole for RCB	\$	70.00 4,200.00		85	\$	5,950.00 8,400.00	\$	-	\$	5,950.00 8,400.00
48-Inch Diameter Manhole for RCB	Þ	4,200.00	EA	2	Ş	8,400.00	Ş	-	Ş	8,400.00
24-inch Diameter Storm Sewer by open cut	\$	85.00	l E	42	\$	3,570.00	\$	_	\$	3,570.00
	7	05.00		72	7	3,370.00	7		7	3,370.00
54-inch Diameter Storm Sewer by open cut	\$	320.00	l F	375	\$	120,000.00	\$	_	\$	120,000.00
Type "BB" Inlet	Ś	3,800.00		2	-	7,600.00	\$	_	\$	7,600.00
Remove/Dispose reinforced concrete with	Υ	3,000.00		_	~	7,000.00	Ψ		Ť	7,000.00
or without base including existing Metro										
bus pad	\$	7.00	SY	750	\$	5,250.00	\$	-	\$	5,250.00
Lime Stabilized Subgrade 8-inch Thick	\$	4.00	SY	750	\$	3,000.00	\$	-	\$	3,000.00
Lime for Lime Stabilized Subgrade (Dry										
Weight)	\$	150.00	TON	14	\$	2,025.00	\$	-	\$	2,025.00
Reinforced Concrete Pavement 11-inch										
Thick	\$	70.00	SY	750	\$	52,500.00	\$	-	\$	52,500.00
Concrete Driveways Including Excavation 6-										
inch Thick	\$	10.00		350		3,500.00	\$	-	\$	3,500.00
6-Inch Concrete Curb (Monolithic)	\$		LF	283	\$	5,094.00	\$	-	\$	5,094.00
Sidewalk 4-1/2-Inch Thick	\$	6.50	SF	2850	\$	18,525.00	\$	-	\$	18,525.00
Wheelchair Ramps and Sidewalks,	_	20.00	65	40	_	202.00			_	202.00
Complete in Place	\$	20.00	SF	40	\$	800.00	\$	-	\$	800.00
3/4-Inch to 1-Inch Diameter Water Taps and Copper Service Line with Meter Box,										
Short Side	\$	900.00	E A	4	\$	3,600.00	\$	_	\$	3,600.00
3/4-Inch to 1-Inch Diameter Water Taps	ې	900.00	LA	4	ې	3,000.00	ې		۲	3,000.00
and Copper Service Line with Meter Box,										
Long Side	\$	1,250.00	EA	4	\$	5,000.00	Ś	_	\$	5,000.00
	т			et to Hunting Bay			T		<u> </u>	0,000.00
Mobilization	\$	690,000.00	LS	1	\$	690,000.00	\$	-	\$	690,000.00
Traffic Control & Regulation	\$	225,000.00	LS	1	\$	225,000.00	\$	-	\$	225,000.00
SWPPP	\$	98,000.00	LS	1	\$	98,000.00	\$	-	\$	98,000.00
Tree Mitigation	\$	60,000.00	LS	1	\$	60,000.00	\$	-	\$	60,000.00
Adjusting Manholes, inlets, and valve boxes										
to grade	\$	750.00	EA	10	\$	7,500.00	\$	-	\$	7,500.00
Service stubs or reconnections with or										
without stack on sanitary sewer	\$	70.00		1596		111,720.00	\$	-	\$	111,720.00
48-Inch Diameter Manhole for RCB	\$	4,200.00	EA	4	\$	16,800.00	\$	-	\$	16,800.00
Trench Safety System for Storm Sewer	١.		_		١.				1.	
Trench Excavation	\$	5.00		4168	-	20,840.00	\$	-	\$	20,840.00
Junction Box 10 FTx 10 FT	\$	18,000.00	LΑ	6	\$	108,000.00	\$	-	\$	108,000.00
24-inch Diameter Storm Sewer by open cut	۲ ا	05.05	1.5	2.5	۲.	20.400.00	۲,		_	20 400 00
	\$	85.00		240	-	20,400.00	\$	-	\$	20,400.00
10' x 8' RCB	\$	1,150.00		4168		4,793,200.00		-	\$ \$	4,793,200.00
Type "BB" Inlet Remove/Dispose Pavement with Base 12	P	3,800.00	LA	22	Ş	83,600.00	\$	-	Ş	83,600.00
inch Thick	\$	7.00	sv	13968	ć	97,772.89	\$	_	\$	97,772.89
men tillek	ب	7.00	J1	12208	٦	31,112.09	7	-	٧	31,112.09

imes Stabilized Subgrade (Pin hinck) imine of Limes Stabilized Subgrade (Pin hinck) imine of Limes Stabilized Subgrade (Pin hinck) in the stabilized Subgrade (Pin hinck) in t	Excavation & Haul off	\$	15.00	CV	6590	ć	98,700.00	\$		\$	98,700.00
ime for Lines Stabilized Subgrades (Dry Weight) S 150.00 TON 25 \$ 37,712.40 \$ \$ \$ \$ \$ \$ \$ \$ \$						_					•
See 150		٦	4.00	31	13308	ڔ	33,870.22	٦		7	33,670.22
Nemforced Concrete Pawement 11-inch Inch Sourced Driveways Including Exercision Sourced Driveways Including Exe	5 , ,	Ś	150.00	TON	251	Ś	37.712.40	Ś	_	Ś	37.712.40
	Reinforced Concrete Pavement 11-inch	Υ	130.00		232	7	37,722.10	Ψ		Ť	37,722.10
Concrete Privewys Including Execution 6- Inch No Trick S	Thick	\$	70.00	SY	13968	\$	977,728.89	\$	-	\$	977,728.89
International Control Regulation \$ 1000 \$	Concrete Driveways Including Excavation 6-						•				•
ieldewalls SJ-Z-Inch Thick indewalls SJ-Z-Inch Thick indewalls SJ-Z-Inch Thick indewalls SJ-Z-Inch Thick independent Place	inch Thick	\$	10.00	SF	4200	\$	42,000.00	\$	-	\$	42,000.00
Wheelthark Ramps and Sidewisk, complete in Place (Default) 5 2,000 5 120 \$ 2,400.00 \$ - \$ 2,400.00 (J4-Inch to 1-Inch Diameter Water Taps (Mort Side) 8 900.00 EA 40 \$ 36,000.00 \$ - \$ 36,000.00 Hord Stope Service Line with Meter Box, and Sitered (Dahney Street to Majestic Street - FR) Rand Street (Dahney Street to Majestic Street - FR) Working Side \$ 125,000 EA 48 \$ 60,000.00 \$ - \$ 60,000.00 Inabilitation \$ 125,000 EA 48 \$ 60,000.00 \$ - \$ 5,000.00 Inserting Side \$ 125,000 EA 48 \$ 60,000.00 \$ - \$ 5,000.00 Inserting Side \$ 125,000 EA 48 \$ 60,000.00 \$ - \$ 5,000.00 Inserting Side \$ 125,000.00 EA 48 \$ 50,000.00 \$ - \$ 125,000.00 Inserting Side \$ 125,000.00 EA 48 \$ 50,000.00 \$ - \$ 2,25,000.00 Inserting Side \$ 125,000.00 EA 10 \$ 125,000.00	6-Inch Concrete Curb (Monolithic)		18.00	LF	8966	\$	161,388.00	\$	-	\$	161,388.00
Complete in Place	Sidewalk 5-1/2-Inch Thick	\$	6.50	SF	38404	\$	249,626.00	\$	-	\$	249,626.00
	Wheelchair Ramps and Sidewalks,										
Indicopper Service Line with Meters Box, home Side Submit Submit Side Submit	Complete in Place	\$	20.00	SF	120	\$	2,400.00	\$	-	\$	2,400.00
Section Sect	,										
	and Copper Service Line with Meter Box,										
MacOpper Service Line with Meter Box, ong Side	Short Side	\$	900.00	EA	40	\$	36,000.00	\$	-	\$	36,000.00
Modification S											
Name Street (Dahney Street to Majestic Street + 66	• •	١.				١.				١.	
Mobilization S 125,000,00 S 1 S 125,000,00 S S 125,000,00 S S 125,000,00 S S 125,000,00 S S S S S S S S S	Long Side	\$					·	\$	-	\$	60,000.00
Traffic Control & Regulation \$ 45,000.00 \$ - \$ 45,000.00 \$ - \$ 45,000.00 \$ - \$ 45,000.00 \$ - \$ 45,000.00 \$ - \$ 45,000.00 \$ - \$ 5 45,000.00 \$ - \$ 5 45,000.00 \$ - \$ 5 5	A A Little Little	۱ ۸				_	•			١,	125 000 00
WPPP											
S	,	_	•				,			<u> </u>	•
New							·				•
without stack on sanitary sewer \$ 70.00 E		Ş	15,000.00	LS	1	Ş	15,000.00	Þ	-	Þ	15,000.00
Sype C Mahole for 36-Inch Diameter System		ć	70.00	1.5	126	۲	9 920 00	ć		۲	9 920 00
Series S	·	Ş	70.00	LF	120	Ş	8,820.00	Þ	-	Þ	8,820.00
### 14-Inch Diameter Storm Sewer by open cut		خ	4 200 00	FΛ	10	خ	42 000 00	ċ	_	خ	42 000 00
S	3ewers	ې	4,200.00	LA	10	ې	42,000.00	٦		ې	42,000.00
Section Diameter Storm Sewer by open cut S 160.00 LF 1350 S 216,000.00 S - S 216,000.00 S - S 216,000.00 S - S 216,000.00 S - S 53,000.00 S - S 53,000.0	24-inch Diameter Storm Sewer by open cut	خ	85.00	l E	225	ć	10 125 00	¢	_	خ	10 125 00
S		7	85.00	Li	223	۲	19,123.00	Ţ		7	19,125.00
Sperign Inject Sperign Speri	36-inch Diameter Storm Sewer by open cut	¢	160.00	I F	1350	¢	216 000 00	¢	_	Ġ	216 000 00
Remove/Dispose Pavement with Base \$ 7.00 \$Y	Type "BB" Inlet	_					·		_	· ·	•
Securation & Haul							· · · · · · · · · · · · · · · · · · ·		-		•
Imme Stabilized Subgrade (Pincy S						_	· ·		-	<u> </u>	
Imme for Lime Stabilized Subgrade (Dry		_					·		-	<u> </u>	18,382.67
Reinforced Concrete Pavement 11-inch Phick \$ 70.00 SY 4596 \$ 321,696.67 \$ - \$ 321,696.66 Phick S 70.00 SY 4596 \$ 321,696.67 \$ - \$ 321,696.66 Concrete Driveways Including Excavation 6-Inch Thick \$ 10.00 SF 560 \$ 5,600.00 \$ - \$ 5,600.00 IF 2902 \$ 52,236.00 \$ - \$ 5,600.00 IF 2902 \$ 52,236.00 \$ - \$ 5,2236.00 IF 2902 \$ 52,236.00 \$ - \$ 5,2236.00 IF 2902 \$ 52,236.00 \$ - \$ 5,2236.00 IF 2902 \$ 52,236.00 \$ - \$ 5,600.00 IF 2902 \$ 52,236.00 \$ - \$ 5,600.00 IF 2902 \$ 52,236.00 \$ - \$ 5,600.00 IF 2902 \$ 52,236.00 \$ - \$ \$ 5,600.00 IF 2902 \$ 52,236.00 \$ - \$ \$ 5,600.00 IF 2902 \$ 52,236.00 \$ - \$ \$ 1,600.00 IF 2902 \$ 52,236.00 \$ - \$ \$ 1,600.00 IF 2902 \$ 52,236.00 \$ - \$ \$ 1,600.00 IF 2902 \$ 52,236.00 \$ - \$ \$ 1,600.00 IF 2902 \$ 52,236.00 \$ - \$ \$ 1,600.00 IF 2902 \$ 52,236.00 \$ - \$ \$ 1,600.00 IF 2902 \$ 52,236.00 \$ - \$ \$ 1,600.00 IF 2902 \$ 52,236.00 \$ - \$ \$ 1,600.00 IF 2902 \$ 52,236.00 \$ - \$ \$ 1,600.00 IF 2902 \$ 52,236.00 \$ - \$ \$ 1,600.00 IF 2902 \$ 52,236.00 \$ - \$ \$ 1,600.00 IF 2902 \$ 52,236.00 \$ - \$ \$ 1,600.00 IF 2902 \$ 52,236.00 \$ - \$ \$ 1,600.00 IF 2902 \$ 52,236.00 \$ - \$ \$ 5,400.00 IF 2902 \$ 52,236.00 \$ - \$ \$ 5,400.00 IF 2902 \$ 52,236.00 \$ - \$ \$ 5,400.00 IF 2902 \$ 52,236.00 \$ - \$ \$ 5,400.00 IF 2902 \$ 52,236.00 \$ - \$ \$ 5,400.00 IF 2902 \$ 52,236.00 \$ - \$ \$ 5,400.00 IF 2902 \$ 52,236.00 \$ - \$ \$ 5,400.00 IF 2902 \$ 52,236.00 \$ - \$ \$ 5,400.00 IF 2902 \$ 52,236.00 \$ - \$ \$ 5,400.00 IF 2902 \$ 52,236.00 \$ - \$ \$ 5,400.00 IF 2902 \$ 52,236.00 \$ - \$ \$ 5,400.00 IF 2902 \$ 52,236.00 \$ - \$ \$ 5,400.00 IF 2902 \$ 52,236.00 \$ - \$ \$ 5,400.00 IF 2902 \$ 52,236.00 \$ - \$ \$ 5,400.00 IF 2902 \$ 52,236.00 \$ - \$ \$ 5,400.00 IF 2902 \$ 52,236.00 \$ - \$ \$ 5,400.00 IF 2902 \$ 52,236.00 \$ - \$ \$ 5,400.00 IF 2902 \$ 52,236.00 \$ - \$ \$ 5,400.00 IF 2902 \$ 52,236.00 \$ - \$ \$ 5,400.00 IF 2902 \$ 52,236.00 IF 29	Lime for Lime Stabilized Subgrade (Dry						·	-			·
Strick S	Weight)	\$	150.00	TON	83	\$	12,408.30	\$	-	\$	12,408.30
Concrete Driveways Including Excavation 6	Reinforced Concrete Pavement 11-inch										
Section Sect	Thick	\$	70.00	SY	4596	\$	321,696.67	\$	-	\$	321,696.67
Sinch Concrete Curb (Monolithic) S	Concrete Driveways Including Excavation 6-										
Sidewalk 4-1/2-Inch Thick	inch Thick				560		5,600.00	\$	-	_	5,600.00
Meelchair Ramps and Sidewalks, Complete in Place S 20.00 SF 80 \$ 1,600.00 \$ - \$ 1,600.00 \$	6-Inch Concrete Curb (Monolithic)	_					· ·		-	<u> </u>	52,236.00
Complete in Place \$ 20.00 SF 80 \$ 1,600.00 \$ - \$ 1,600.00 \$	Sidewalk 4-1/2-Inch Thick	\$	6.50	SF	12859	\$	83,583.50	\$	-	\$	83,583.50
Ad-Inch to 1-Inch Diameter Water Taps and Copper Service Line with Meter Box, short Side \$900.00 EA 6\$5,400.00 \$-\$5,400.00 \$ Ad-Inch to 1-Inch Diameter Water Taps and Copper Service Line with Meter Box, short Side \$900.00 EA 7 \$8,750.00 \$-\$5,400.00 \$ Ad-Inch to 1-Inch Diameter Water Taps and Copper Service Line with Meter Box, song Side \$1,250.00 EA 7 \$8,750.00 \$-\$5,400.00 \$ Roadside Ditch Improvements Mobilization \$450,000.00 IS 1 \$450,000.00 \$-\$\$150,000.00 \$ Fraffic Control & Temporary Pavement \$150,000.00 IS 1 \$98,000.00 \$-\$\$150,000.00 \$ Excepted Ditch \$12.00 IF 45500 \$546,000.00 \$-\$\$546,000.00 \$-\$\$546,000.00 \$-\$\$546,000.00 \$-\$\$546,000.00 \$-\$\$546,000.00 \$-\$\$546,000.00 \$-\$\$546,000.00 \$-\$\$550,000.00 \$-\$\$550,000.00 IS 1 \$550,000.00 \$-\$\$550,000.00 IS	•	١.				١.				١.	
And Copper Service Line with Meter Box, Short Side \$ 900.00 EA 6 \$ 5,400.00 \$ - \$ 5,400.00 \$ CA 1,400.00 \$ CA 1,40		\$	20.00	SF	80	\$	1,600.00	\$	-	\$	1,600.00
Short Side Short Side Side Side Side Ditch Improvements Short Side Ditch Improvement Short Side Ditch Improvement Short Short Side Ditch Short Short Side Ditch Short Short Side Ditch Short	i i										
8/4-Inch to 1-Inch Diameter Water Taps and Copper Service Line with Meter Box, song Side \$ 1,250.00 EA 7 \$ 8,750.00 \$ - \$ 8,750.00 \$		4	000.00	F.A.		٠	F 400 00			ć	F 400 00
Supplement Sup		Ş	900.00	EA	6	>	5,400.00	Þ	-	۶	5,400.00
Sample S	•					ĺ					
Mobilization \$ 450,000.00 LS 1 \$ 450,000.00 \$ - \$ 450,000.00 \$ \$ 150,000.00	• •	خ	1 250 00	FΛ	7	ć	8 750 00	¢	_	خ	8 750 00
Mobilization \$ 450,000.00 LS 1 \$ 450,000.00 \$ - \$ 450,000.00 \$ \$ \$ \$ \$ \$ \$ \$ \$	Long Side	٦	1,230.00			۲	8,730.00	Ţ		7	8,730.00
Traffic Control & Temporary Pavement \$ 150,000.00 LS 1 \$ 150,000.00 \$ - \$ 150,000.00 \$ \$ - \$ 98,000.00 \$ \$ - \$ 98,000.00 \$ \$ - \$ 98,000.00 \$ \$ - \$ 98,000.00 \$ \$ - \$ 98,000.00 \$ \$ - \$ 546,000.00 \$ \$ - \$ 546,000.00 \$ \$ - \$ 3,549,000.00 \$ \$ - \$ 3,549,000.00 \$ \$ - \$ 3,549,000.00 \$ \$ - \$ 3,549,000.00 \$ \$ - \$ 3,549,000.00 \$ \$ - \$ 3,549,000.00 \$ \$ - \$ 3,549,000.00 \$ \$ - \$ 3,549,000.00 \$ \$ - \$ 3,549,000.00 \$ \$ - \$ 3,549,000.00 \$ \$ - \$ 3,549,000.00 \$ \$ - \$ 3,549,000.00 \$ \$ - \$ 3,549,000.00 \$ \$ - \$ 3,549,000.00 \$ \$ - \$ 55,000.00 \$ \$ - \$ 5	Mobilization	\$	450.000.00		•	Ś	450,000.00	\$	-	\$	450.000.00
\$ 150,000.00 LS		-	12 2,000.00	-	_	Ť	.20,000.00	т			
\$\frac{1}{2} \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Traffic Control & Temporary Pavement	\$	150,000.00	LS	1	\$	150,000.00	\$	-	\$	150,000.00
Seplace Driveway Culvert & Pavement \$ 6,500.00 EA 546 \$ 3,549,000.00 \$ - \$ 546,000.00 \$	SWPPP								-	\$	98,000.00
Seplace Driveway Culvert & Pavement \$ 6,500.00 EA 546 \$ 3,549,000.00 \$ - \$ 3,549,000.00	Desilt Roadside Ditch				45500	\$	· ·		-	\$	546,000.00
Solution	Ronlaco Drivovaco Colorest 9 December										
State Control & Temporary Pavement \$ 35,000.00 LS 1 \$ 55,000.00 \$ - \$ 55,000.00 \$	neplace Driveway Culvert & Pavement	\$	6,500.00	EA	546	\$	3,549,000.00	\$	-	\$	3,549,000.00
Traffic Control & Temporary Pavement \$ 35,000.00 LS 1 \$ 35,000.00 \$ - \$ 35,000.00 \$ \$ (WPPP \$ 40,000.00 LS 1 \$ 40,000.00 \$ - \$ 40,000.00 \$ (Weplace B inlets with BB inlets \$ 3,800.00 EA 65 \$ 247,000.00 \$ - \$ 247,000.00 \$ (Weplace B inlets with BB inlets \$ 3,800.00 EA 65 \$ 552,500.00 \$ - \$ 552,500.00 \$ (Weplace B inlets with BB inlets B inlets				Inlet Repl							
\$ 35,000.00 LS 1 \$ 35,000.00 \$ - \$ 35,000.00 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	Mobilization	\$	55,000.00	LS	1	\$	55,000.00	\$	-	\$	55,000.00
\$ 35,000.00 LS 1 \$ 35,000.00 \$ - \$ 35,000.00 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	Traffic Control & Temporary Payement				_					1	
Replace B inlets with BB inlets \$ 3,800.00 EA 65 \$ 247,000.00 \$ - \$ 247,000.00 Gawcut Pavement/Curb and Replace \$ 8,500.00 EA 65 \$ 552,500.00 \$ - \$ 552,500.00 DETENTION POND Q	· ,		•				·	-	-		35,000.00
Sawcut Pavement/Curb and Replace \$ 8,500.00 EA 65 \$ 552,500.00 \$ - \$ 552,500.00 DETENTION POND Q	SWPPP		•				· ·		-	<u> </u>	40,000.00
DETENTION POND Q	Replace B inlets with BB inlets	_					· ·	-	-	· ·	247,000.00
	Sawcut Pavement/Curb and Replace	\$	8,500.00		L	\$	552,500.00	\$	-	\$	552,500.00
Mobilization \$ 50,000.00 LS 1 \$ 50,000.00 \$ - \$ 50,000.00											
	Mobilization	\$	50,000.00	LS	1	\$	50,000.00	\$	-	\$	50,000.00

									I	
Traffic Control & Temporary Pavement	\$	5,000.00	LS	1	\$	5,000.00	\$	-	\$	5,000.00
SWPPP	\$	8,000.00	LS	1	\$	8,000.00	\$	-	\$	8,000.00
Tree Mitigation	\$	2,000.00	LS	1	\$	2,000.00	\$	-	\$	2,000.00
Excavation and Haul	\$	25.00	CY	16617	\$	415,433.33	\$	-	\$	415,433.33
Backslope Drain & Swale	\$	41,543.33	LS	1	\$	41,543.33	\$	-	\$	41,543.33
Outfall & Extreme Event Overflow	\$	62,315.00	LS	1	\$	62,315.00	\$	-	\$	62,315.00
Intake Pipe	\$	124,630.00	LS	1	\$	124,630.00	\$	-	\$	124,630.00
Hydromulch Seeding	\$	5,000.00	AC	3	\$	12,500.00	\$	-	\$	12,500.00
Sodding	\$	5.00	SY	1500		7,500.00	\$	-	\$	7,500.00
Concrete Pilot Channel	\$	35,000.00	LS	1	\$	35,000.00	\$	-	\$	35,000.00
	1.		DETENTIO							
Mobilization	\$	25,000.00	LS	1	\$	25,000.00	\$	-	\$	25,000.00
Traffic Control & Temporary Pavement	\$	5,000.00	15	1	\$	5,000.00	\$	_	\$	5,000.00
SWPPP	\$		LS	1	\$	8,000.00	\$	_	\$	8,000.00
Tree Mitigation	\$		LS	1	\$	2,000.00	\$	_	\$	2,000.00
Excavation and Haul	\$		CY	3824	\$	95,590.00	\$	_	\$	95,590.00
Backslope Drain & Swale	\$	9,559.00	LS	1	\$	9,559.00	\$		\$	9,559.00
Outfall & Extreme Event Overflow	\$	14,338.50	LS	1	\$	14,338.50	\$		\$	14,338.50
Intake Pipe	\$	28,677.00	LS	1	\$	28,677.00	\$		\$	28,677.00
Hydromulch Seeding	\$,	AC	1	\$	5,000.00	\$		\$	5,000.00
Sodding	\$		SY	500		2.500.00	\$		\$	2,500.00
Concrete Pilot Channel	\$	20.000.00		1		20,000.00	\$	-	\$	20,000.00
Concrete Filot Channel	7	20,000.00	DETENTIO		٧	20,000.00	۲		٧	20,000.00
Mobilization	\$	35,000.00	_		\$	35,000.00	\$		\$	35,000.00
	1				т.	20,000.00	т.		7	
Traffic Control & Temporary Pavement	\$	5,000.00	LS	1	\$	5,000.00	\$	-	\$	5,000.00
SWPPP	\$		LS	1	<u> </u>	8,000.00	\$	-	\$	8,000.00
Tree Mitigation	\$,	LS	1	\$	2,000.00	\$	-	\$	2,000.00
Excavation and Haul	\$		CY	7663		191,583.33	Ś	_	\$	191,583.33
Backslope Drain & Swale	\$		LS	1	\$	19,158.33	\$		\$	19,158.33
Outfall & Extreme Event Overflow	\$	28,737.50	LS	1	\$	28,737.50	\$	-	\$	28,737.50
Intake Pipe	\$		LS	1	\$	57,475.00	\$	_	\$	57,475.00
Hydromulch Seeding	\$		AC	2	Ś	10,000.00	\$	-	\$	10,000.00
Sodding	\$,	SY	800		4,000.00	\$	_	\$	4,000.00
Concrete Pilot Channel	Ś		LS	1		25,000.00	\$		\$	25,000.00
		.,	DETENTION	N POND N	•	-,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				2,222
Mobilization	\$	38,000.00	LS	1	\$	38,000.00	\$	-	\$	38,000.00
Traffic Control & Temporary Pavement										
Traine Control & Temporary Pavement	\$	5,000.00	LS	1	\$	5,000.00	\$	-	\$	5,000.00
SWPPP	\$	8,000.00	LS	1	\$	8,000.00	\$	-	\$	8,000.00
Tree Mitigation	\$	2,000.00	LS	1	\$	2,000.00	\$	-	\$	2,000.00
Excavation and Haul	\$	25.00	CY	8051	\$	201,263.33	\$	-	\$	201,263.33
Backslope Drain & Swale	\$	20,126.33	LS	1	\$	20,126.33	\$	-	\$	20,126.33
Outfall & Extreme Event Overflow	\$	30,189.50	LS	1	\$	30,189.50	\$	-	\$	30,189.50
Intake Pipe	\$	60,379.00	LS	1	\$	60,379.00	\$	-	\$	60,379.00
Hydromulch Seeding	\$	5,000.00	AC	2	\$	10,000.00	\$	-	\$	10,000.00
Sodding	\$	5.00	SY	650	\$	3,250.00	\$	-	\$	3,250.00
Concrete Pilot Channel	\$	15,000.00	LS	1	\$	15,000.00	\$	-	\$	15,000.00
			DETENTIO	N POND F						
Mobilization	\$	32,000.00	LS	1	\$	32,000.00	\$	-	\$	32,000.00
Traffic Control & Temporary Pavement										
Traine Control & Temporary Pavement	\$	5,000.00			\$	5,000.00	\$	-	\$	5,000.00
SWPPP	\$	8,000.00			\$	8,000.00		-	\$	8,000.00
Tree Mitigation	\$	2,000.00	LS		\$	2,000.00	\$	-	\$	2,000.00
Excavation and Haul	\$	25.00	CY	7066	\$	176,660.00	\$	-	\$	176,660.00
Backslope Drain & Swale	\$	17,666.00		1	_	17,666.00	\$	-	\$	17,666.00
Outfall & Extreme Event Overflow	\$	26,499.00	LS	1	\$	26,499.00	\$	-	\$	26,499.00
Intake Pipe	\$	52,998.00	LS	1		52,998.00	\$	-	\$	52,998.00
Hydromulch Seeding	\$	5,000.00	AC	1		7,000.00	_	-	\$	7,000.00
Sodding	\$	5.00	SY	500	\$	2,500.00	\$	-	\$	2,500.00
Concrete Pilot Channel	\$	12,000.00		1	\$	12,000.00	\$	-	\$	12,000.00
			DETENTIO							
Mobilization	\$	150,000.00			\$	150,000.00	\$	-	\$	150,000.00
	,		LS	1				-		·
Mobilization Traffic Control & Temporary Pavement SWPPP	\$ \$	150,000.00 8,000.00 15,000.00	LS LS	1	\$ \$	150,000.00 8,000.00 15,000.00	\$		\$ \$ \$	8,000.00 15,000.00

Tree Mitigation Excavation and Haul Backslope Drain & Swale Outfall & Extreme Event Overflow Intake Pipe Hydromulch Seeding Sodding Concrete Pilot Channel Mobilization Traffic Control & Temporary Pavement SWPPP Tree Mitigation Excavation and Haul Backslope Drain & Swale Outfall & Extreme Event Overflow Intake Pipe	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	131,406.00 262,812.00 5,000.00 5.00 35,000.00 30,000.00 5,000.00 8,000.00 2,000.00	CY LS LS LS AC SY LS DETENTION	1 35042 1 1 1 5 1800 1 N POND C	\$ \$ \$ \$ \$	5,000.00 876,040.00 87,604.00 131,406.00 262,812.00 25,000.00 9,000.00 35,000.00	\$ \$ \$ \$ \$ \$ \$		\$ \$ \$ \$ \$ \$ \$	5,000.00 876,040.00 87,604.00 131,406.00 262,812.00 25,000.00 9,000.00 35,000.00
Backslope Drain & Swale Outfall & Extreme Event Overflow Intake Pipe Hydromulch Seeding Sodding Concrete Pilot Channel Mobilization Traffic Control & Temporary Pavement SWPPP Tree Mitigation Excavation and Haul Backslope Drain & Swale Outfall & Extreme Event Overflow	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	87,604.00 131,406.00 262,812.00 5,000.00 5.00 35,000.00 30,000.00 5,000.00 8,000.00 2,000.00 25.00	LS LS AC SY LS DETENTION LS LS LS	1 1 1 5 1800 1 1 N POND C 1	\$ \$ \$ \$ \$	87,604.00 131,406.00 262,812.00 25,000.00 9,000.00 35,000.00	\$ \$ \$ \$ \$	- - - - -	\$ \$ \$ \$ \$	87,604.00 131,406.00 262,812.00 25,000.00 9,000.00
Outfall & Extreme Event Overflow Intake Pipe Hydromulch Seeding Sodding Concrete Pilot Channel Mobilization Traffic Control & Temporary Pavement SWPPP Tree Mitigation Excavation and Haul Backslope Drain & Swale Outfall & Extreme Event Overflow	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$	131,406.00 262,812.00 5,000.00 5.00 35,000.00 30,000.00 5,000.00 8,000.00 2,000.00	LS LS AC SY LS DETENTION LS LS LS	1 1 5 1800 1 1 N POND C 1	\$ \$ \$ \$	131,406.00 262,812.00 25,000.00 9,000.00 35,000.00	\$ \$ \$ \$ \$	- - - - -	\$ \$ \$ \$ \$	131,406.00 262,812.00 25,000.00 9,000.00
Intake Pipe Hydromulch Seeding Sodding Concrete Pilot Channel Mobilization Traffic Control & Temporary Pavement SWPPP Tree Mitigation Excavation and Haul Backslope Drain & Swale Outfall & Extreme Event Overflow	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	262,812.00 5,000.00 5.00 35,000.00 30,000.00 5,000.00 8,000.00 2,000.00 25.00	LS AC SY LS DETENTION LS LS LS	1 5 1800 1 N POND C 1	\$ \$	262,812.00 25,000.00 9,000.00 35,000.00	\$ \$ \$	- - - -	\$ \$ \$	262,812.00 25,000.00 9,000.00
Hydromulch Seeding Sodding Concrete Pilot Channel Mobilization Traffic Control & Temporary Pavement SWPPP Tree Mitigation Excavation and Haul Backslope Drain & Swale Outfall & Extreme Event Overflow	\$ \$ \$ \$ \$ \$ \$ \$ \$	5,000.00 5.00 35,000.00 30,000.00 5,000.00 8,000.00 2,000.00 25.00	AC SY LS DETENTION LS LS	5 1800 1 N POND C	\$ \$	25,000.00 9,000.00 35,000.00	\$ \$		\$	25,000.00 9,000.00
Sodding Concrete Pilot Channel Mobilization Traffic Control & Temporary Pavement SWPPP Tree Mitigation Excavation and Haul Backslope Drain & Swale Outfall & Extreme Event Overflow	\$ \$ \$ \$ \$ \$ \$ \$	5.00 35,000.00 30,000.00 5,000.00 8,000.00 2,000.00 25.00	LS LS LS LS LS	1800 1 N POND C 1	\$	9,000.00 35,000.00	\$	-	\$	9,000.00
Concrete Pilot Channel Mobilization Traffic Control & Temporary Pavement SWPPP Tree Mitigation Excavation and Haul Backslope Drain & Swale Outfall & Extreme Event Overflow	\$ \$ \$ \$ \$ \$ \$	35,000.00 30,000.00 5,000.00 8,000.00 2,000.00 25.00	LS DETENTION LS LS LS	1 N POND C 1	\$	35,000.00	\$	-	\$	•
Mobilization Traffic Control & Temporary Pavement SWPPP Tree Mitigation Excavation and Haul Backslope Drain & Swale Outfall & Extreme Event Overflow	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$	30,000.00 5,000.00 8,000.00 2,000.00 25.00	LS LS	POND C 1	\$			-		35,000.00
Traffic Control & Temporary Pavement SWPPP Tree Mitigation Excavation and Haul Backslope Drain & Swale Outfall & Extreme Event Overflow	\$ \$ \$ \$ \$ \$	5,000.00 8,000.00 2,000.00 25.00	LS LS	1	-	30,000.00	\$	-	\$	
Traffic Control & Temporary Pavement SWPPP Tree Mitigation Excavation and Haul Backslope Drain & Swale Outfall & Extreme Event Overflow	\$ \$ \$ \$ \$ \$	5,000.00 8,000.00 2,000.00 25.00	LS LS	1	-	30,000.00	\$		\$	
SWPPP Tree Mitigation Excavation and Haul Backslope Drain & Swale Outfall & Extreme Event Overflow	\$ \$ \$ \$ \$	8,000.00 2,000.00 25.00	LS		۲.					30,000.00
Tree Mitigation Excavation and Haul Backslope Drain & Swale Outfall & Extreme Event Overflow	\$ \$ \$ \$	8,000.00 2,000.00 25.00		1	\$	5,000.00	\$	_	\$	5,000.00
Excavation and Haul Backslope Drain & Swale Outfall & Extreme Event Overflow	\$ \$ \$ \$	25.00	LS		\$	8,000.00	\$	-	\$	8,000.00
Excavation and Haul Backslope Drain & Swale Outfall & Extreme Event Overflow	\$			1	\$	2,000.00	\$	-	\$	2,000.00
Backslope Drain & Swale Outfall & Extreme Event Overflow	\$		CY	6534	\$	163,350.00	Ś	-	\$	163,350.00
Outfall & Extreme Event Overflow	\$		LS	1	\$	16,335.00	\$	-	\$	16,335.00
	\$	24,502.50	LS	1	\$	24,502.50	Ś	_	Ś	24,502.50
intake Pipe		49,005.00	LS	1	\$	49,005.00	Ś	-	Ś	49,005.00
Hydromulch Seeding	\$	•	AC	1	\$	6,500.00	\$		\$	6,500.00
Sodding	\$	•	SY	450	_	2,250.00	\$	_	\$	2,250.00
Concrete Pilot Channel	\$	12,000.00		1	_	12,000.00	\$		\$	12,000.00
233. etc :et endimer	1 7	12,000.00	DETENTION		Υ	12,000.00	<u> </u>		· -	12,000.00
Mobilization	Ś	280,000.00	LS		\$	280,000.00	\$	-	Ś	280,000.00
	T-			_	т		T		T	
Traffic Control & Temporary Pavement	\$	5,000.00		1	_	5,000.00	\$	-	\$	5,000.00
SWPPP	\$	8,000.00	LS	1	\$	8,000.00	\$	-	\$	8,000.00
Tree Mitigation	\$	2,000.00	LS	1	\$	2,000.00	\$	-	\$	2,000.00
Excavation and Haul	\$	25.00	CY	6098	\$	152,460.00	\$	-	\$	152,460.00
Backslope Drain & Swale	\$	15,246.00	LS	1	\$	15,246.00	\$	-	\$	15,246.00
Outfall & Extreme Event Overflow	\$	22,869.00	LS	1	\$	22,869.00	\$	-	\$	22,869.00
Intake Pipe	\$	45,738.00	LS	1	\$	45,738.00	\$	-	\$	45,738.00
Hydromulch Seeding	\$	5,000.00	AC	1	\$	6,500.00	\$	-	\$	6,500.00
Sodding	\$	5.00	SY	450	\$	2,250.00	\$	-	\$	2,250.00
Concrete Pilot Channel	\$	12,000.00	LS	1	\$	12,000.00	\$	-	\$	12,000.00
			Park &	Trail						
Mobilization	\$	120,000.00	LS	1	\$	120,000.00	\$	-	\$	120,000.00
Traffic Control & Temporary Pavement										
	\$	5,000.00		1		5,000.00	\$	-	\$	5,000.00
SWPPP	\$	15,000.00	_	1	_	15,000.00	\$	-	\$	15,000.00
Tree Mitigation	\$		LS	1	_	65,000.00	\$	-	\$	65,000.00
Trailhead, Bench, Trash Can, Canopy	\$		EA	5	_	925,000.00	\$	-	\$	925,000.00
Trail	\$	10.50	SF	38400	_	403,200.00	\$	-	\$	403,200.00
SUB TOTAL					\$	42,199,190.0	\$	-	\$	42,199,190.00
						1				
1. Identify and explain the annual project	ed ope	eration and maint	enance costs ass	ociated with the	pro	posed activities.				
2 Identify and apple										
2. Identify and explain any special engined	ering a	ictivities.	Diale A	mat B.Co						
			Risk Assessme		4	10.000				10.000 ===
Construction Contingency (30%)	\$	12,659,757.00	EA	1	\$	12,659,757.00	\$	-	\$	12,659,757.00
SUB TOTAL	1				\$	12,659,757.0	\$		\$	12,659,757.00
			0-6:0	<u> </u>			<u> </u>		<u> </u>	
			Soft C	losts			ı		1	
Engineering (Design and Bidding) (15%)	,	0.220.042.65	E 4	_	,	0.220.242.65	_ ا		,	0.220.242.22
5 5, 5 1 1, 6, 7, 7, 7, 7	\$	8,228,842.05	ŁA	1	\$	8,228,842.05	\$	-	\$	8,228,842.05
Environmental Investigation and Permitting	g .				١.		١.		١.	
	\$	3,291,536.82		1				-	\$	3,291,536.82
Grant Administration (6%)	\$	3,291,536.82	EA	1	_	<u> </u>	\$	-	_	3,291,536.82
SUB TOTAL					\$	6,583,073.6	\$	-	\$	14,811,915.69
TOTAL					\$	61,442,020.6	\$	-	\$	69,670,862.69
Environmental Investigation and Permitting Grant Administration (6%)	\$ \$		EA	1	\$	8,228,842.05 3,291,536.82 3,291,536.82 6,583,073.6		-		\$ \$ \$ \$

Date:	
Phone Number:	

, and the second se	
	Signature of Registered Engineer/Architect Responsible For
Seal	Budget Justification:



CDBG-MIT: Budget Justification of Retail Costs (Former Table 2)

Cost Verification Controls must be in place to assure that construction costs are reasonable and consistent with market costs at the time and place of construction.

			const	truction.					
Applicant/Subrecipient:		Houston							
Site/Activity Title:	City of Houston Kashmere Gardens Drainage Improvements - Green Storm Water Infrastructure								
Eligible Activity:	Flood control and drainage improvements								
Materials/Facilities/Services	<u> </u>	\$/Unit	Unit	Quantity		Construction	Acquisition		Total
		Cavalca	ade Street (Pick	fair Street to H110	1-00-0	10)			
Replace Driveway Culvert & Pavement		# = * ·		i	١				44
,	\$	6,500.00		17		110,500.00	\$ -	\$	110,500.00
Structured Rain Garden	\$	600.00	+			933,000.00	\$ -	\$	933,000.00
Sidewalk	\$	3 000 00		1037	\$	60,645.02	\$ -	\$	60,645.02
ADA Ramp Landscape Improvements	\$	2,000.00 31.50		1111	\$	8,000.00 35,000.00	\$ -	\$	8,000.00 35.000.00
canascape improvements	ڊ ا			ty Road to Hunting	'	,	-	Ş	33,000.00
	T	LUCKWU	Tarite (Liber)	,	Jayt	,		T	
Replace Driveway Culvert & Pavement	\$	6,500.00	EA	124	s	806,000.00	\$ -	\$	806,000.00
Structured Rain Garden	\$	600.00	1	10000		6,000,000.00	\$ -	\$	6,000,000.00
The state of the s	, r			Street to Lockwood	т —		<u> </u>	<u> </u>	-,555,550.00
		J. 411C	1		1	,	T	T	
Replace Driveway Culvert & Pavement	\$	6,500.00	EA	43	\$	279,500.00	\$ -	\$	279,500.00
Ditch Improvements	\$	15.00		4898		73,470.00	\$ -	\$	73,470.00
Sidewalk	\$	58.50				120,510.00	\$ -	\$	120,510.00
ADA Ramp	\$	2,000.00	EA	12	<u> </u>	24,000.00	\$ -	\$	24,000.00
Landscape Improvements	\$	9.00		8980		80,820.00	\$ -	\$	80,820.00
		Los Ange	eles Street (Colli	ingsworth Street to					
Renlace Driveway Culvert 8, D.									
Replace Driveway Culvert & Pavement	\$	6,500.00		95		617,500.00	\$ -	\$	617,500.00
Ditch Improvements	\$	15.00	LF	8724	\$	130,860.00	\$ -	\$	130,860.00
Sidewalk	\$	58.50		1483		86,755.50	\$ -	\$	86,755.50
ADA Ramp	\$	2,000.00	EA	22	\$	44,000.00	\$ -	\$	44,000.00
Landscape Improvements	\$		SY	20356		183,204.00	\$ -	\$	183,204.00
		W	ayne Street (Lib	erty Road to IH-61	10)				
Replace Driveway Culvert & Pavement					_			1	
	\$	6,500.00		124	<u> </u>	806,000.00	\$ -	\$	806,000.00
Ditch Improvements	\$	15.00	1	12230		183,450.00	\$ -	\$	183,450.00
Sidewalk	\$	58.50			<u> </u>	157,833.00	\$ -	\$	157,833.00
ADA Ramp	\$	2,000.00		40		80,000.00	\$ -	\$	80,000.00
Landscape Improvements	\$		SY	24460		220,140.00	\$ -	\$	220,140.00
		Kas	nmere Street (L	iberty Road to IH-6	610)		1		
Replace Driveway Culvert & Pavement		6 - 6 - 1	_		٦	4 050 555		_	4.050.555
	\$	6,500.00		163	<u> </u>	1,059,500.00	\$ -	\$	1,059,500.00
Ditch Improvements	\$	15.00		11944		179,160.00	\$ -	\$	179,160.00
Sidewalk	\$	3 000 00	+	1031	\$	60,313.50	\$ -	\$	60,313.50
ADA Ramp	\$	2,000.00 9.00	EA	52		104,000.00	\$ -	\$ \$	104,000.00
Landscape Improvements SUB TOTAL	P	9.00	31	26542	\$	238,878.00 12,683,039.02	'	ċ	238,878.00 12,683,039.02
JOB IUIAL					۲	12,000,039.02	- ب	ļ Ņ	12,003,039.02
1. Identify and explain the annual projec	cted one	ration and mai	ntenance costs	associated with the	le pro	posed activition			
	seca ope	allu IIId	criunice custs	. Josephalea Willi li	e pr(oposca activities.			
2. Identify and explain any special engin	neering a	ctivities							
supposition special engin	z.mg a		Risk Assessm	ment Mark-Ups					
Construction Contingency (30%)	\$	3,804,911.70			\$	3,804,911.70	\$ -	\$	3,804,911.70
Mobilization (4%)	\$	507,321.56				507,321.56	\$ -	\$	507,321.56
SUB TOTAL	-			1	\$		\$ -	\$	3,804,911.70
					-	, ,		十	, , , , , , , , , , , , , , , , , , , ,
			Soft	t Costs					
Facility of the Control of the Contr								T	
Engineering (Design and Bidding) (15%)	\$	2,473,192.61	EA	1	\$	2,473,192.61	\$ -	\$	2,473,192.61
Environmental Investigation and								T	
Permitting	\$	989,277.04	EA	1	\$	989,277.04	\$ -	\$	989,277.04
Grant Administration (6%)	\$	989,277.04	+	1	\$	989,277.04	\$ -	\$	989,277.04
SUB TOTAL	\bot				\$	4,451,746.69		\$	4,451,746.69
	T				$\overline{}$		T	\top	

TOTAL			\$	21,447,019.0	\$	-	\$	20,939,697.42
			Date:					
			Phone	Number:				
							_	
			Signa	ture of Registe	red Enginee	er/Archi	tect F	Responsible For
	Seal		Budget Justification:					•



CDBG-MIT: Budget Justification of Retail Costs (Former Table 2)

			•	-						
Cost Verification Controls mu	st be in place to	assure that		costs are reasonable nstruction.	and co	onsistent with mar	ket costs at t	he tim	ie an	d place of
Applicant/Subrecipient:	City of Ho	City of Houston								
Site/Activity Title:		City of Houston Kashmere Gardens Drainage Improvements - Acquisition								
Eligible Activity:		Acquisition								
Materials/Facilities/Services	\$/	\$/Unit Unit Quantity Construction Acquisition Total								Total
			DETENT	TION POND Q						
Pond A	\$	-	LS	1	\$	-	\$ 1,224,00	0.00	\$	1,224,000.00
Pond C	\$	-	LS	1	\$	-	\$ 818,00	0.00	\$	818,000.00
Pond F	\$	-	LS	1	\$	-	\$ 773,00	0.00	\$	773,000.00
Pond K	\$	-	LS	1	\$	-	\$ 130,00	0.00	\$	130,000.00
Pond N	\$	-	LS	1	\$	-	\$ 680,00	0.00	\$	680,000.00
Pond Q	\$	-	LS	1	\$	-	\$	-	\$	-
Pond R	\$	-	LS	1	\$	-	\$	-	\$	-
	\$	-								
SUB TOTAL					\$	-	\$ 3,625,00	0.00	\$	3,625,000.0
1. Identify and explain the annual	projected opera	tion and m	naintenance co	sts associated with	the pr	roposed activities.				
2. Identify and explain any special	engineering act	ivities.								
TOTAL					\$		\$ 3,625,0	0.00	\$	3,625,000.0
					<u> </u>					
					Date:					
					Phon	e Number:				
					c:	-+f B!-+	d F	A	4 5	
					Signa	ature of Registere	a Engineer/	Archite	ect K	esponsible For

Seal

Budget Justification: