## SCHEDULE 1 – HOURLY EQUIPMENT AND LABOR PRICE SCHEDULE

Equipment Type – Ref. to Section No. 24.1 of RFB	Hourly Equipment Rate
Bobcat Loader	95
Bucket Truck w/Operator	145
Crash Truck w/Impact Attenuator	25
Dozer, Tracked, D5 or similar	130
Dozer, Tracked, D6 or similar	145
Dozer, Tracked, D7 or similar	160
Dozer, Tracked, D8 or similar	175
Dump Truck, 18 CY-20 CY	100
Dump Truck, 21 CY-30 CY	100
Generator and Lighting	25
Grader w/12' Blade	135
Hydraulic Excavator, 1.5 CY	135
Hydraulic Excavator, 2.5 CY	135
Knuckleboom Loader	185
Lowboy Trailer w/Tractor	115
Mobile Crane (Adequate for hanging limbs/leaning trees)	225
Pickup Truck, .5 Ton	50
Truck, Flatbed	60
Water Truck	75
Wheel Loader, 2.5 CY, 950 or similar	135
Wheel Loader, 3.5 – 4.0 CY, 966 or similar	135
Wheel Loader, 4.5 CY, 980 or similar	135
Wheel Loader-Backhoe, 1.0 – 1.5 CY	100
Other - Please List OFFICE TRAILER W/GEN-	- 40
ERATOR	

Labor Category	Hourly Labor Rate
Operations Manager w/Cell Phone and Pickup	75
Crew Foreman w/Cell Phone and Pickup	60
Tree Climber/Chainsaw	75
Laborer w/Chain Saw	45
Laborer w/small tools, traffic control, or flagperson	40

	SCHEDULE 2 - UNIT RATE PRIC			37
07.5	Reference to Section 25 o	of RFB	<del></del>	Т
	ROW Vegetative Debris Removal (Collect & Haul) consists of collection and transport of vegetative debris on the ROW to a City d DMS of other designated disposal facility.	\$ Per Cubic Yard	Estimated Cubic Yards	Total
		6.84	536,000	3666240
	ROW C&D Debris Removal (Collect & Haul) possists of collection and transport of C&D debris on the ROW to a City d DMS of other designated disposal facility.	\$ Per Cubic Yard	Estimated Cubic Yards	Total
		7.84	80.000	@7.200
25.4	Private Property Vegetative Debris Removal			
	onsists of collection and transport of vegetative debris on the private property approved DMS of other designated disposal facility.	S Per Cubic Yard	Estimated Cubic Yards	Total
		6.84	60,606	4-14,545,0
25.5	Private Property C&D Debris Removal			
	onsists of collection and transport of C&D debris on private property to a City d DMS of other designated disposal facility.	S Per Cubic Yard	Estimated Cubic Yards	Total
		7.84	37,600	294,784
25.6	City Parks and Other City Property Vegetative Debris Removal			7
Work co	onsists of collection and transport of vegetative debris in City parks or other perty to a City approved DMS of other designated disposal facility.	\$ Per Cubic Yard	Estimated Cubic Yards	Total
		684	100,000	684,000
25.7	Removal of Hazardous Leaning Trees and Hanging Limbs in City Parks and Other City Property			the Letter
1	nsists of removing hazardous leaning trees or hanging limbs from City parks City property.	\$ Per Tree	Estimated Tree Total	Total
	6 inch to 11.99 inch diameter	78	300	23,400
	12 inch to 23.99 inch diameter	148	200	29,600
	24 inch to 35.99 inch diameter	238	100	23,800
	36 inch to 47.99 inch diameter	342	20	6960
	48 inch and larger diameter	438	10	4380
	40 men and larger diameter	\$ Per Tree	Estimated Tree Total	Total
\$ magnetic as	Harris and the state of the sta	78		207,480
	Hangers greater than two (2') inches in diameter  Removal of Hazardous Stumps from City Parks and Other Public  Property  nsists of removing hazardous stumps and placing them on the ground for	S Per Unit	2,660 Estimated Units	Total
haul-off.	24 inch to 35.99 inch diameter	1 20 L-3		6250
		335	50	1050
	36 inch to 47:99 inch diameter	775	30	6,00
05.0	48 inch and larger diameter	215	10	2750
25.9	DMS Management and Operation			"
Maria	seleta of all lebon acquisment fuel and missellaneous secto passesser to	C Dor Cubic Vard	Estimated Cubic Varde	Total
	nsists of all labor, equipment, fuel and miscellaneous costs necessary to and operate a DMS on an inbound debris basis.	S Per Cubic Yard	Estimated Cubic Yards	Total
manage	and operate a DMS on an inbound debris basis.	S Per Cubic Yard	Estimated Cubic Yards 536,000	536,000
25.10 Work co				15 777
25.10 Work co	and operate a DMS on an inbound debris basis.  Chipping (Reduction of Storm Generated Debris) nsists of all labor, equipment, fuel and miscellaneous costs necessary to	\$ Per Cubic Yard	536,000 Estimated Cubic Yards	536,000
25.10 Work coreduce s	and operate a DMS on an inbound debris basis.  Chipping (Reduction of Storm Generated Debris) nsists of all labor, equipment, fuel and miscellaneous costs necessary to	1.00	536,000	536,000
25.10 Work coreduce s 25.11 Work co	and operate a DMS on an inbound debris basis.  Chipping (Reduction of Storm Generated Debris)  nsists of all labor, equipment, fuel and miscellaneous costs necessary to storm generated debris by chipping.	\$ Per Cubic Yard	536,000 Estimated Cubic Yards	536,000

		•	
25.12 Removal of ROW Hazardous Leaning Trees and Hanging Limbs Work consists of removing hazardous leaning trees or hanging limbs and placing them on the ROW for haul-off.	\$ Per Tree	Estimated Tree Total	Total
6 inch to 11.99 inch diameter	78	500	39.000
12 inch to 23.99 inch diameter	148	300	44. 400
24 inch to 35.99 inch diameter	238	200	49,600
36 inch to 47.99 inch diameter	348	10	3480
48 inch and larger diameter	438	5	2190
	\$ Per Tree	Estimated Tree Total	Total
Hangers greater than two (2') inches in diameter	78	23,250	1813500
25.13 Removal of Hazardous Stumps from City ROW Work consists of removing hazardous stumps and placing them on the ROW for haul-off.	\$ Per Unit	Estimated Units	Total
24 inch to 35.99 inch diameter	125	50	6250
36 inch to 47.99 inch diameter	225	30	6750
48 inch and larger diameter	a75	10	2750
25.14 Household Hazardous Waste Removal Transport and Disposal			T
Work consists of all labor, equipment, fuel and miscellaneous costs necessary for removal, transportation and disposal of HHW.	\$ Per Pound	Estimated Pounds	Total
	3	100,000	300,000
25.15 Canals and Waterways Debris Removal (Collect & Haul)			Ü
Work consists of all labor, equipment, fuel and miscellaneous costs necessary for removal, transportation and disposal of debris from City canals and waterways.	\$ Per Cubic Yard	Estimated Cubic Yards	Total
	20	5,000	100,000
25.16 Abandoned Vehicle Removal			,
Work consists of the removal of abandoned vehicles in areas identified and approved by the City and subsequently transported to a City approved staging area.	\$ Per Unit	Estimated Units	Total
	200	100	20,000
25.17 Animal Carcass Removal and Disposal			Ü
Work consists of all labor, equipment, fuel and miscellaneous costs necessary for removal, transportation and disposal of Animal Carcasses.	\$ Per Pound	Estimated Pounds	Total
	B	1000	000
25.18 ROW White Goods Debris Removal (Collect & Haul) Work consists of all labor, equipment, fuel and miscellaneous costs necessary for removal, transportation and disposal of White Goods.	\$ Per Unit	Estimated Units	Total
	35	1000	35,000
25.19 Freon Removal Work Consists of the recovery and disposal of refrigerants from items containing Freon.	\$ Per Unit	Estimated Units	Total
	39	750	29,250
Total Estimated Contract Price		· 11,201,3	39,04

<sup>\*\*</sup>Cradle to grave pricing for vegetative, stump and tree removal and disposal are encouraged and may be included by the Contractor for consideration by the City. If alternative pricing is included, the Contractor must specify which unit rate scope items are included. All estimates are derived using the Norman, Oklahoma Disaster Debris Management Plan. Estimates are calculated using a moderate disaster model and should not be considered actual totals. It is assumed that all portions of the above rate schedule may be necessary during debris removal and clearance operations.

## Stump Conversion Table

## Diameter to Volume Capacity

The quantification of the cubic yards of debris for each size of stump in the following table was derived from FEMA field studies conducted throughout the State of Florida during the debris removal operations following Hurricanes Charley, Frances, Ivan and Jeanne. The following formula is used to derive cubic yards:

## [(Stump Diameter x 0.7854) x Stump Length] + [(Root Ball Diameter x 0.7854) x Root Ball Height] 46656

0.7854 is one-fourth Pi and is a constant. 46656 is used to convert cubic inches to cubic yards and is a constant

The formula used to calculate the cubic yardage used the following factors, based upon findings in the field:

- Stump diameter measured two feet up from ground Stump diameter to root ball diameter ratio of 1:3.6 Root ball height of 31"

Stump Diameter (Inches)	Debris Volume (Cubic Yards)	Stump Diamete (Inches)	er Debris Volume (Cubic Yards)
6	0.3	46	15.2
7	0.4	47	15.8
8	0.5	4B	16.5
9	0.6	49	17.2
10	0.7	50	17.2
11	0.9	51	18.6
12	0.9	52	19.4
13	1.2	53	20.1
14	1.4	54	20.1
15	1.6	55	21.7
		56	22.5
16	1.8	57	23.3
17	2.1		
18	2.3	58	24.1
19	2.6	59	24.9
20	2.9	60	25.8
21	3.2	61	26.7
22	3.5	62	27.6
23	3.8	63	28.4
24	4.1	64	29.4
25	4.5	65	30.3
26	4.8	66	31.2
27	5.2	67	32.2
28	5.6	68	33.1
29	6	69	34.1
30	6.5	70	35.1
31	6.9	71	36.1
32	7.3	72	37.2
33	7.8	73	38.2
34	8.3	74	39.2
35	8.8	75	40.3
36	9.3	76	41.4
37	9.8	77	42.5
38	10.3	78	43.6
39	10.9	79	44.7
40	11.5	80	45.9
41	12	81	47
42	12.6	82	48.2
43	13.3	83	49.4
44	13.9	84	50.6
45	14.5	04	