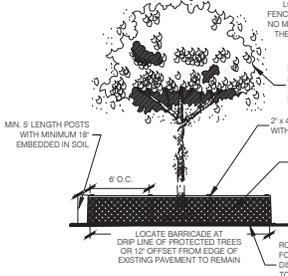


INSTALL TREE BARRICADES PRIOR TO SITE CLEARING



LARGE TREE PROTECTION AREAS SHALL BE DEFINED DURING SITE CLEARING ACTIVITIES BY A WOVEN FABRIC FENCING ATTACHED TO 4 HT. 2' x 2' POSTS SPACED MAX. 50' O.C. LOCATION OF THIS TEMPORARY FENCING TO BE SHOWN ON THE PLANS. NO MACHINERY SHALL BE ALLOWED ON THE TREE PROTECTION SIDE OF THE TEMPORARY FENCING.

BRANCH PRUNING WHEN REQUIRED SHALL BE PERFORMED BY A LICENSED CERTIFIED ARBORIST AND ACCORDING TO ANS 300 PRUNING STANDARDS.

2' x 4' VERTICAL WOOD STAKES WITH 2' x 4' HORIZONTAL WOOD MEMBERS

PVC SAFETY FENCE, ATTACH TO HORIZONTAL WOOD MEMBERS AT 6' INTERVALS

LOCATE BARRICADE AT DRIP LINE OR PROTECTED TREES OR 12' OFFSET FROM EDGE OF EXISTING PAVEMENT TO REMAIN

ROOT PRUNING AT DRIP LINE IS REQUIRED FOR LOCATIONS WHERE SUB-GRADE WILL BE DISTURBED. WORK TO BE PERFORMED BY A LICENSED CERTIFIED ARBORIST.

MIN. 5' LENGTH POSTS WITH MINIMUM 1/8" EMBEDDED IN SOIL

8" O.C.

LOCATE BARRICADE AT DRIP LINE OR PROTECTED TREES OR 12' OFFSET FROM EDGE OF EXISTING PAVEMENT TO REMAIN

DISTANCES ALSO APPLY TO THE PLACEMENT OF UNDERGROUND UTILITIES. UTILITIES WITHIN TREE PROTECTION BARRICADES TO BE INSTALLED VIA SUBSURFACE BORING

**1 TREE PROTECTION DETAIL**

NOT TO SCALE

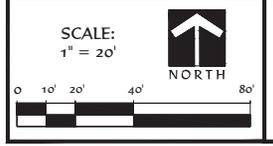
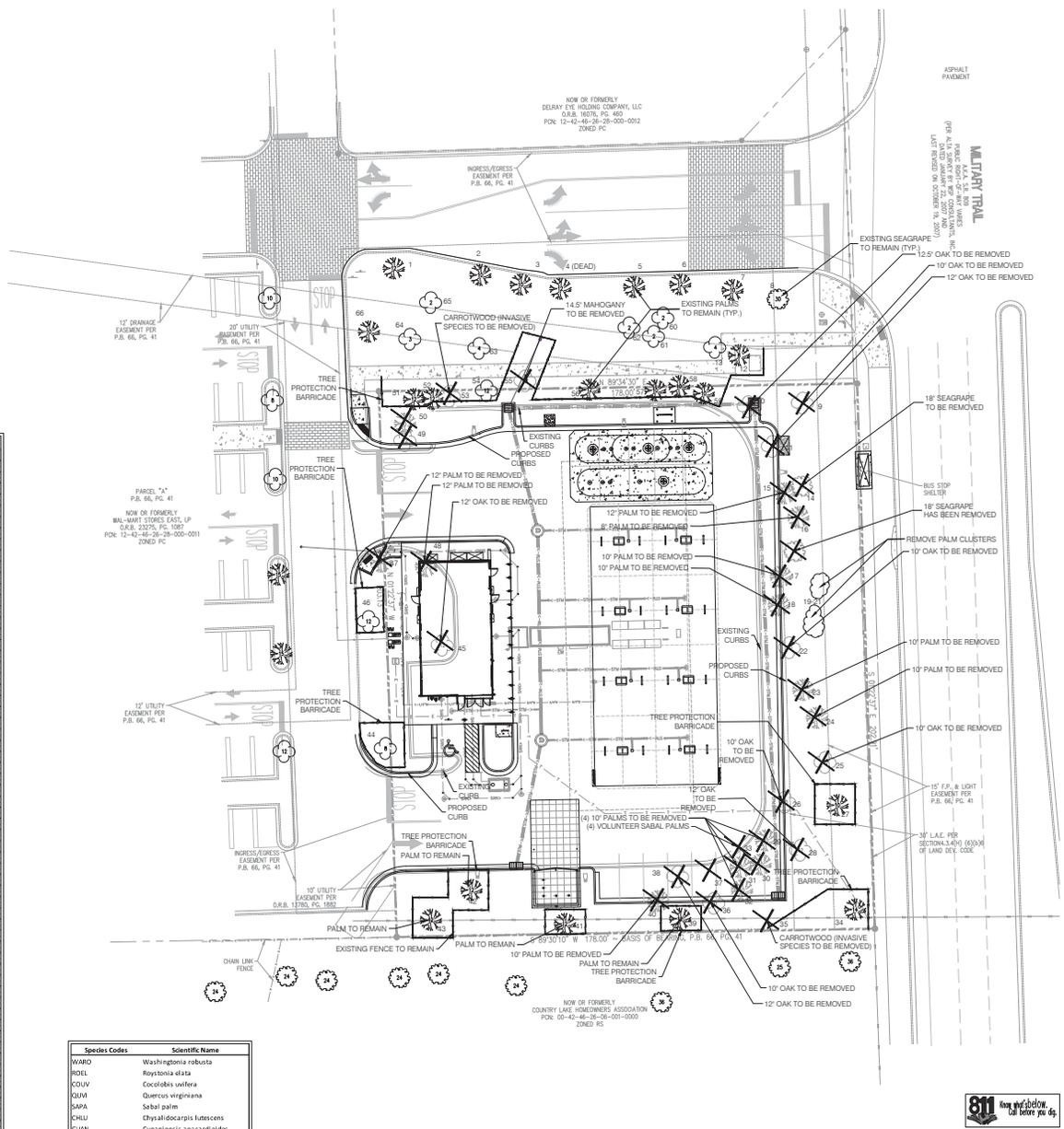
**Murphy Oil Company - 16211 S. Military Tr. Delray Beach, Florida**

Tree #	DBH	Common Name	Sp. Name	Total Ht.	Cond.	Spread	Remain	Remove	Comments	Mitigation Unit Cost	Mitigation Fee
1	12.7	Washington palm	WARO	43	0.55	12	x		Sloughing bark		\$0.00
2	15.2	Royal Palm	ROEL	25	0.70	24	x		Chlorosis; several trunk scars		\$0.00
3	10.1	Washington palm	WARO	32	0.62	14	x		Lower trunk		\$0.00
4	17.7	Royal Palm	ROEL	19	0.90	N/A	x		Dead		\$0.00
5	10.8	Washington palm	WARO	40	0.75	11	x		Lower fronds dead		\$0.00
6	15.6	Royal Palm	ROEL	27	0.80	15	x		Good new growth; stout		\$0.00
7	9.0	Washington palm	WARO	42	0.51	10	x		Chlorosis; sloughing bark		\$0.00
8	13.3/9.7/15.8/7.6	Seagrape	COUV	28	0.50	42	x		Trunk wounds and splitting; dead in center; sap sucker		\$0.00
9	9.7	Live oak	OLIV	24	0.75	22	x		Some surface root damage	\$650.00	\$6,305.00
10	12.5	Live oak	OLIV	27	0.65	24	x		co-dominant trunk; vertical split in trunk	\$650.00	\$8,125.00
11	14	Live oak	OLIV	28	0.80	32	x		Good canopy; some surface root damage	\$950.00	\$11,900.00
12	10.8	Royal Palm	ROEL	16	0.50	10	x		Chlorotic; poor trunk base		\$0.00
13	4.0	Live oak	OLIV	12	0.75	11	x		New tree; some dieback		\$0.00
14	2.9/5.8/5.6	Seagrape	COUV	19	0.60	18	x		Sap sucker damage; dieback; one limb previously topped	\$450.00	\$6,435.00
15	13.3	Sabal palm	SAPA	19	0.65	13	x		Sloughing bark trunk wounds	1:1 replacement	\$0.00
16	7.8	Sabal palm	SAPA	18	0.60	11	x		Poor trunk base; several trunk wounds	1:1 replacement	\$0.00
17	10.2	Sabal palm	SAPA	21	0.70	11	x		Trunk wounds	1:1 replacement	\$0.00
18	9.9	Sabal palm	SAPA	32	0.75	11	x		Lean; minor trunk wounds	1:1 replacement	\$0.00
19	N/A	Area palm	CHLU	7	0.65	N/A	x		Forms one clump 22' x 10'		\$0.00
20	N/A	Area palm	CHLU	6	0.65	N/A	x		Forms one clump 22' x 10'		\$0.00
21	N/A	Area palm	CHLU	9	0.65	N/A	x		Forms one clump 22' x 10'		\$0.00
22	12.2	Live oak	OLIV	28	0.89	28	x		Full canopy	\$650.00	\$7,930.00
23	12.0	Sabal palm	SAPA	29	0.55	11	x		Sloughing bark trunk wounds	1:1 replacement	\$0.00
24	11.8	Sabal palm	SAPA	28	0.40	9	x		Curly in trunk; small crown; sloughing bark	1:1 replacement	\$0.00
25	11.1	Live oak	OLIV	28	0.55	23	x		Dieback; broken limbs; thin canopy	\$650.00	\$7,215.00
26	12.5	Live oak	OLIV	35	0.89	34	x		Good canopy	\$850.00	\$8,125.00
27	10.7	Sabal palm	SAPA	27	0.60	10	x		Sloughing bark trunk wounds	\$850.00	\$0.00
28	16.3	Live oak	OLIV	39	0.70	40	x		Several broken limbs and hangers; some root damage	\$1,850.00	\$13,855.00
29	12.6	Sabal palm	SAPA	22	0.70	10	x		Wound at base	1:1 replacement	\$0.00
30	9.9	Sabal palm	SAPA	27	0.80	11	x		Wound at base	1:1 replacement	\$0.00
31	10.4	Sabal palm	SAPA	25	0.70	13	x		Wound at base	1:1 replacement	\$0.00
32	11.7	Sabal palm	SAPA	26	0.75	11	x		Wound at base	1:1 replacement	\$0.00
33	12.0	Sabal palm	SAPA	8	0.75	6	x		4 volunteers under 20-32	1:1 replacement	\$0.00
34	18.0	Sabal palm	SAPA	25	0.75	10	x		Directly under powerline		\$0.00
35	2.1/2.3	Carrotwood	CUAN	17	0.65	13	x		Tree not on survey; Category 1 invasive species; two stems	\$0.00	\$0.00
36	10.8	Live oak	OLIV	35	0.40	20	x		Has been topped; under powerline	\$225.00	\$3,510.00
37	13.6	Sabal palm	SAPA	26	0.65	14	x		Next to ice machine; sloughing bark	1:1 replacement	\$0.00
38	14.0	Live oak	OLIV	40	0.75	28	x		Next to ice machine; full canopy; some root damage	\$850.00	\$11,900.00
39	12.8	Sabal palm	SAPA	28	0.45	12	x		Directly under powerline; trunk wounds; poor crown		\$0.00
40	11.6	Sabal palm	SAPA	25	0.75	13	x		Along fence line; under powerline	1:1 replacement	\$0.00
41	20.4	Sabal palm	SAPA	23	0.80	14	x		Not on survey		\$0.00
42	14.2	Sabal palm	SAPA	25	0.75	10	x		Wedgehit damage		\$0.00
43	19.0	Sabal palm	SAPA	20	0.60	10	x		Not on survey; poor canopy; under powerline		\$0.00
44	8.8	Live oak	OLIV	18	0.70	24	x		Trunk wound at E; some dieback		\$0.00
45	13.8	Live oak	OLIV	27	0.60	31	x		Some dieback; sparse	\$850.00	\$11,735.00
46	13.8	Live oak	OLIV	28	0.60	28	x		Thinning canopy; some dieback		\$0.00
47	11.9	Sabal palm	SAPA	19	0.80	11	x			1:1 replacement	\$0.00
48	12.4	Sabal palm	SAPA	16	0.75	12	x			1:1 replacement	\$0.00
49	12.1	Live oak	OLIV	25	0.70	33	x		Thinning canopy; Not on survey	\$650.00	\$7,865.00
50	2.9	Sabal palm	SAPA	21	0.45	12	x		Severe bark sloughing wounds; poor taper; not on survey	1:1 replacement	\$0.00
51	10.4	Sabal palm	SAPA	21	0.75	10	x				\$0.00
52	11.9	Sabal palm	SAPA	19	0.75	12	x		Not on survey		\$0.00
53	4.3	Carrotwood	CUAN	21	0.75	11	x		Not on survey; Category 1 invasive	\$0.00	\$0.00
54	15.3	Live oak	OLIV	30	0.65	38	x		Surface root damage; grinding root		\$0.00
55	14.5	Mahogany	SWMA	29	0.70	35	x		Grinding roots; restricted root zone; good canopy	\$850.00	\$12,325.00
56	13.5	Sabal palm	SAPA	22	0.80	11	x				\$0.00
57	12.7	Sabal palm	SAPA	22	0.75	11	x				\$0.00
58	9.9	Sabal palm	SAPA	24	0.80	14	x				\$0.00
59	11.2	Sabal palm	SAPA	23	0.80	13	x				\$0.00
60	2.8	Baldypress	FABI	13	0.75	8	x		Not on survey; new tree		\$0.00
61	1.8	Baldypress	FABI	9	0.75	4	x		Not on survey; new tree		\$0.00
62	2.4	Baldypress	FABI	9	0.75	8	x		Not on survey; new tree		\$0.00
63	4.5	Live oak	OLIV	13	0.75	12	x		Not on survey; new tree		\$0.00
64	3.0	Live oak	OLIV	11	0.65	8	x		Not on survey; new tree		\$0.00
65	1.6	Baldypress	FABI	9	0.60	6	x		Not on survey; new tree		\$0.00
66	15.1	Royal Palm	ROEL	23	0.70	14	x				\$0.00

Tree Mitigation Fee Subtotal: \$117,220.00  
 26 PROPOSED TREES @ 4" = 104" x \$450 = \$46,800.00  
 Tree Mitigation Fee Total: \$70,420.00

16 PALM TREES TO BE REPLACED ON SITE AT 1:1 RATIO

Species Codes	Scientific Name
WARO	Washingtonia robusta
ROEL	Roystonea elata
COUV	Coccoloba uvifera
OLIV	Quercus virginiana
SAPA	Sabal palm
CHLU	Chlorophytum complanatum
CUAN	Cupressus anacardioides
SWMA	Sweetgum (Liquidambar styraciflua)
FABI	Taxodium distichum



**HEARTWOOD AND BARK**  
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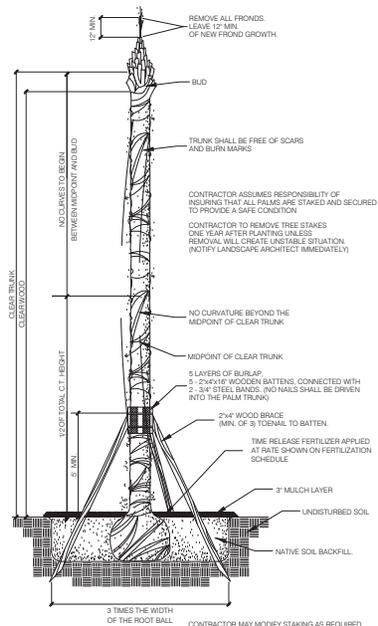


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 DELRAY BEACH, FLORIDA

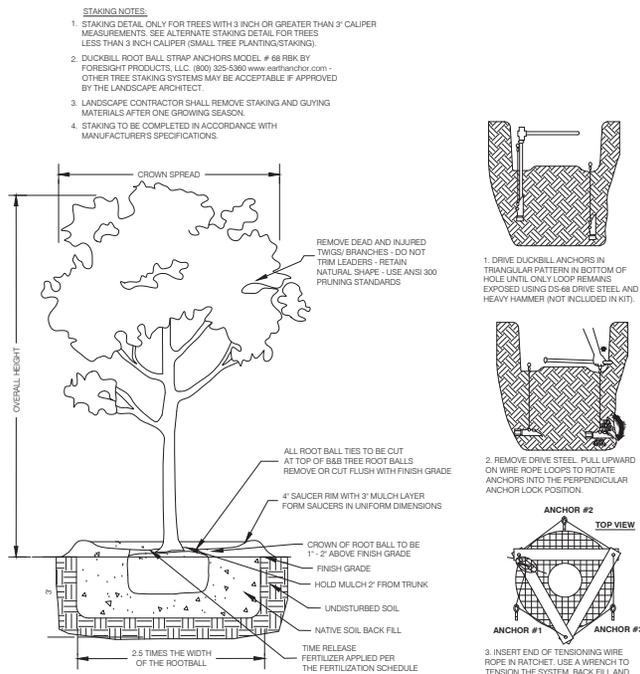
5/11/14/18  
 SITE PLAN REVISION  
 REVISIONS:  
 1. 4/16/18 CLIENT COMMENTS & EXIST. TREE DATA  
 2. 5/16/18 OFF SITE TRUCK TURNING RADIUS  
 3. 06/25/18 SITE PLAN MODIFICATION  
 4. 10/29/18 CITY REVIEW COMMENTS

DRAWN BY: JAZ  
 DATE: 11/26/17  
**17062**  
 TREE PRESERVATION PLAN  
**LS1**

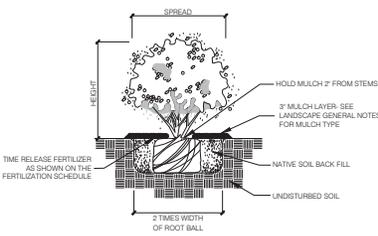




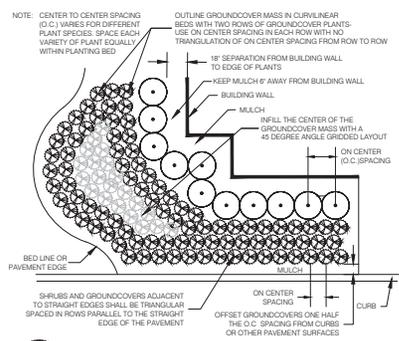
**1** SABAL PALM PLANTING DETAIL  
NOT TO SCALE



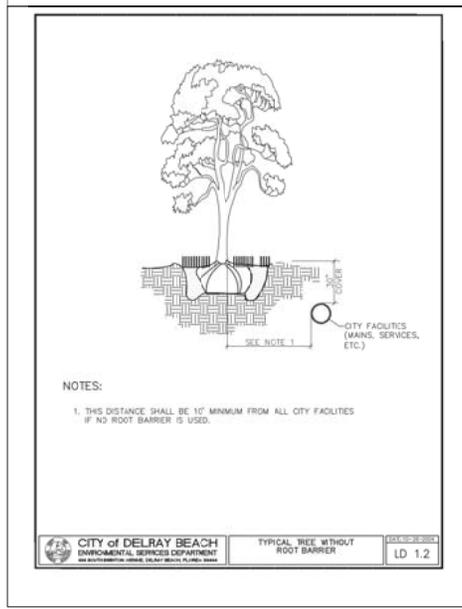
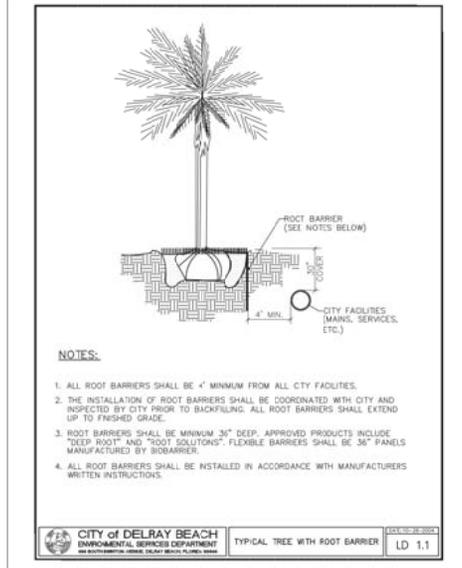
**2** LARGE TREE PLANTING DETAIL (3" OR GREATER CALIPER)  
NOT TO SCALE



**3** SHRUB & GROUNDCOVER PLANTING DETAIL  
NOT TO SCALE



**4** SHRUB AND GROUNDCOVER LAYOUT DETAIL  
NOT TO SCALE



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16211 S. MILITARY TRAIL  
DELRAY BEACH, FLORIDA

5/11/14/18  
SITE PLAN REVISION

REVISIONS:
1. 4/16/18 CLIENT COMMENTS
2. 5/16/18 OFF SITE TRUCK TURNING RADIUS
3. 06/25/18 SITE PLAN MODIFICATION
4. 10/29/18 CITY REVIEW COMMENTS



DRAWN BY: JAZ  
DATE: 11/26/17

**17062**

LANDSCAPE DETAILS

**LS3**

