

McGee & Associates

Landscape Architecture

Project: LELY GOLF ESTATES BEAUTIFICATION, M.S.T.U.

Landscape Observation Report: April 2015 – May 2015

Location: MSTU DISTRICT ROADWAYS

Project Manager: Harry Sells, MSTU Project Manager, C.C.P.S.D. – P.T.N.E. Dept.

Consultant: McGee & Associates

Consultant's Representative: Michael A. McGee, rla, isa

Contractor: Commercial Land Maintenance

Contractor's Representative: Robert Kindelan

Report Date: FY14-15, 05/18/15

Observation Date: 05/18/15

Report No. 8

S - Indicates items to be addressed by staff.

C - Indicates items to be addressed by Contractor

Contractor is requested to address items as soon as possible and indicate in **RESPONSE/COMMENTS** column when and which items are corrected.

Please return electronic copy to our office prior to next month's MSTU site review and meeting.

Note: Copy picture out of comment boxes and then paste to additional sheet if picture is desired in larger size.

<u>LOCATION/WORK AREA</u>	<u>S</u>	<u>C</u>	<u>R</u>	<u>OBSERVATION & RECOMMENDATIONS</u>	<u>RESPONSE or COMMENTS</u>
<u>All locations</u>		X	3	Remove palm seed pods and/or stalks from Foxtail and Alexander palms.	Yellow highlighted items are considered urgent and should be addressed as soon as possible.
		X	3	Review plants to remove large weeds and/or volunteer seedlings (i.e. Carrot wood trees)	M&A: 4-20-15 All locations.
		X	7	Canopy tree selective pruning is recommended under the observation of the Consultant and Contractor.	
		X	5	All areas need to be mulched.	M&A: 3/23/15 The newly laid mulch along the inbound side of St Andrews at US 41 has been laid in plies and has not been properly raked and spread out. M&A: 4-20-15 Median #1 and outbound side of St Andrews needs mulch. Review all medians for mulch debris along curbing. M&A: 5/18/15 Median 1 and two need mulch, also the southwestern bed at the cart cart crossing on Forest Hills appears to have not been completed or it has washed away.
<u>St. Andrews Blvd. & US 41</u>					
<u>In bound R/W South</u>		X	2	It is recommended at the previous accident location in the second beds of Bougainvillea Silhouette that (6) 3 gal. plants be replaced and (1) Alexander palm with 10 Ft. Clear trunk.	
		X	2	Remove seed stalk off Alexander palms.	
		X	2	The Paurotis palm at the sign needs to have 15029 short or small heads removed from the back of sidewalk. remove 2.5 feet off back of sidewalk.	
		X	2	Remove all vines and volunteer plants growing in the Allamanda shrubs.	
		X	22	12 Allamanda shrubs are dead, died from last heavy cutback or in a declined state and	Provide proposal.

Design * Environmental Management * Planning * Arborist

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				need replacement. 3 – gal. size, prune dead wood out of all shrubs and provide count for replacements. Deadwood shrubs	
Out bound R/W North		X	2	Remove seed stalk off Alexander palms.	
		X	2	Remove Plumbago volunteers out of Bougainvillea Silhouette shrubs.	
		X	2	Remove dead foliage out of Flax lily.	
		X	2	Treat ant mound along sidewalk at light pole #6	
		X	2	3' x 10' +/- turf area along sidewalk at light pole # 6 that contains bare/dead spots and weeds.	Review for replacment.
		X	3	Prune Oak tree branches and Paurotis palm so that the canopy or foliage is 10 feet above the sidewalk.	M&A: 4-201-5 Oak tree branches need pruning to 10 ft. level over sidewalk.
		X	3	Turf areas along R/W are water stressed. Review and reinstall irrigation for proper coverage of areas affected by Suncoast construction.	
		X	22	Based upon continued decline and decline after heavy pruning it is recommended the following be implemented. Eastward between the controller and the Royal palm and 10 feet beyond the palm remove Allamanda and install 38- 3 gal., Variegated Arborciola 'Trinette' shrubs, 20 feet west of second Royal palm and between the palm and the Oak tree remove Allamanda and replace with 35- 3 gal. Variegated Arboricola 'Trinette'. 40 Allamanda shrubs are dead, died from last heavy cutback or in a declined state and need replacement. 3 – gal. size, prune dead wood out of all shrubs and provide count for replacements.	Provide proposal. M&A: 09-22-14 Recommend putting area on hold until after building construction. M&A: The Suncoast construction is to be complete this week. proceeding forward with the recommendation is recommended. All Allamanda should be removed and the area replanted with Variegated Arborcola.
St. Andrews Blvd.					
Median #1		X		Treat any mounds on inbound side in turf at flag poles.	
		X		Prune diseased foliage out of the Crinum lily plants. Spray plants for leaf spot fungus.	
		X		The inbound side flag pole spot light has been filled with dirt. The fixture needs to be cleaned.	
		X	2	Remove Foxtail palm seed stalks.	
		X	2	Annual Plantings to be renovated.	M&A: 5/18/15 Bed appears ready for plants.
		X	4	Auto accident outbound side of median. (photo)	Provide proposal.
		X	9	15' x 4' turf area located on the inbound side at light post needs to be replaced.	
Median #2		X		Crown of thorn have been cutback.	
		X		Prune diseased foliage out of the Crinum lily plants. Spray plants for leaf spot fungus.	
		X	2	Small turf area on south side of median needs to be reviewed for replacement.	
		X	11	In the middle of the median at the Black olive tree there are two areas of declined Liriope plants. It is recommended to remove these plants and replace with 3 gal. size Variegated Arborcola shrubs. (11) on the south side and 19 on the north side.	Provide proposal.

Comment [MM1]:



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Median #3		X	4	West end Crown of thorns were run over. Approx. 24 plants damaged.	Provide proposal. M&A: 4-20-15 Replacements are on hold until Committee reviews Crown of thorn plantings. M&A: 5/18/15 Replacements on hold until Committee reviews renovated planting options.
		X	11	East end of median the Crown of thorn were run over. Remove damaged and provide replacements in 1 gal. size.	Provide proposal., M&A: 10-20-14 remove weeds. M&A: 4-20-15 Replacements are on hold until Committee reviews Crown of thorn plantings.
Median #4		X	2	Remove Foxtail palm seed stalks.	
		X	2	East end Juniper bed needs weeds and Asparagus fern removed.	
Median #5		X		East end Juniper bed has one plant that is brown. Review and spray for spider mites, as well as review for rat damage at base.	
		X	2	Remove and/or treat the weeds.	
		X	5	Auto accident at light pole. (photo)	
Median #6		X	2	Remove Foxtail palm seed stalks.	
		X	2	West end Juniper bed contains Torpedo grass.	
		X	17	Replacement Holly tree at Plumbago bed has defoliated from water stress. Review and replace.	M&A: This tree is starting to regrow, but would be considered less than a number one grade tree. Replacement by the contractor is still recommended.
Median #7		X	2	Remove Foxtail palm seed stalks.	
Median #8		X	2	Remove Foxtail palm seed stalks.	
		X	2	Torpedo grass in Plumbago and Bougainvillea.	
Median #8A		X	2	Remove Foxtail palm seed stalks.	
Median #9		X	2	Remove Foxtail palm seed stalks.	
Median #10		X	2	Remove Foxtail palm seed stalks.	
		X	2	The easternmost Holly tree needs canopy lifted 3 ft. +/-	
Forrest Hills Blvd					
Median #11		X	2	Remove Foxtail palm seed stalks.	
		X	2	At addresses 461 & 562 Bougainvillea shrubs contain torpedo grass.	
Median #12		X	2	Remove Foxtail palm seed stalks	
		X	2	Remove Asparagus fren in Juniper bed on south end.	
		X	2	At address 419 Asparagus fern in Plumbago needs to be removed.	
		X	2	3 rd Holly tree from North end needs canopy lifted 3 ft. +/-	
		X	2	At address 426 Torpedo grass in Bougainvillea.	
		X	2	Remove weeds in curbing.	
		X	5	At address 432 auto has run into Bougainvillea shrubs. Review to remove damaged	M&A: 4-20-15 Prune out damaged and let existing plants

Comment [MM2]:



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		X	8	plants and foliage so to provide count for replacements. 3 gal. size "Helen Johnson" At address 426: Auto accident, concrete light pole, Bougainvillea and Holly are damaged. Plant damage includes (1) 5" cal. 16' to 18' Ht. Holly tree and approx. (15) dwarf Bougainvillea "Helen Johnson" replace with 3 gal. size. (photo)	grow back. M&A: 11-17-14 Concrete street light pole has been replaced. Clean up and replanting can begin. M&A: 02-16-15 Holly tree bark wounds are healing and tree is straight. Replacement at this time is not needed. M7A: 3/23/15 (5) Dwarf Bougainvillea shrubs need to be replaced, 3 gal. 'Helen Johnson'.
Forrest Hills Cart Crossing & Lake		X		Review all beds on each side of the cart crossing for mulch.	
		X		Address weeds in Crown of thorn beds	
		X	3	Remove Foxtail palm seed stalks.	
		X	3	Review Xanadu beds for replacements along lake R/W.	M&A: 4-20-15 Remove (3) declining and replant bed with (10) 3 gal. plants. treat plants for root fungus and fertilize after treatment.
Valley Stream Cr. Median #13		X	3	Weeds need to be addressed in plant beds.	M&A: 4-20-15 remove tall weeds in Bougainvillea shrubs on south end.
Pebble Beach Blvd.					
Median #14		X	2	Remove Foxtail palm seed stalks.	
		X	2	Remove Ixora sprouts out of Firebush shrubs.	
Median #15		X	2	Remove Foxtail palm seed stalks.	
		X	2	Apply 14-14-14-90 fertilizer to Bromeliad plants on both ends of median.	
		X	2	Remove tall weeds.	
		X	30	Plant (2) – 3 gal. dwarf Bougainvillea 'Helen Johnson' shrubs at second Foxtail palm from south end.	If already included in previous proposal then plant. If not provide proposal and install with lighting project replacements.
Median #16		X	2	Remove Foxtail palm seed stalks.	
		X	2	At address 59 & 64 Bougainvillea contain Torpedo grass.	
		X	21	Auto damage to Juniper on north end. Remove damaged, 6 – 3 gal. needed. Check sunken area at valve box to make sure there are no leaks. (photo)	Provide proposal. Hold until committee advises.
Median #17		X	2	Remove Foxtail palm seed stalks.	
		X	2	Remove weeds in curbing.	
		X	2	Spray Tabebuia trees with a Copper based fungicide to remove Tillandsia spp./ Air plants.	
		X	17	Add (5) 3 gal. dwarf Bougainvillea in bed just south of light pole #15.	Provide proposal.
Median #18		X		Remove Foxtail palm seed stalks.	

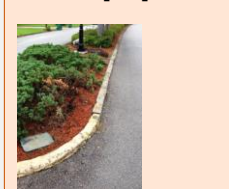
Comment [MAM3]:



Comment [MAM4]:



Comment [s25]:



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		X		Remove weeds and volunteer plants (i.e. Asparagus fern)	
		X	30	South end Bougainvillea bed at first Ilex tree replace (2) 3 gal. dwarf Bougainvillea 'Helen Johnson' shrubs.	Provide proposal.
		X	29	South end Bougainvillea bed at third Foxtail palm replace (2) 3 gal. dwarf Bougainvillea 'Helen Johnson' shrubs.	If already included in previous proposal then plant. If not provide proposal and install with lighting project replacements.
Median #19		X		Remove Foxtail palm seed stalks.	
Pebble Beach Blvd. Golf Cart Crossing		X	9	Mulch replaced Crown of thorns on northwest side of cart path.	M&A: 12-15-14 Mulch all beds at cart crossing
		X	20	Review for replacements the Crown of thorn bed at the southeast corner of crossing.	Provide proposal. M&A: 4-20-15 Replacements are on hold until Committee reviews Crown of thorn plantings.
Thorncrest Ln. cul-de-sac #20		X		Please have the crews be careful when in this median there is a Mallard duck nesting on her eggs in the Bougainvillea shrubs. I have placed two white flags and the nest is in between them. This duck is native to this area.	
		X		The Bougainvillea plants look very bad. It appears they defoliated or insects removed the foliage.	
		X		Spray Bougainvillea with a Copper based fungicide to remove Tillandsia spp./ Air plants.	
		X	2	Remove weeds.	
Briarcliff Ln. Cu-de-sac #21		X		There about 25 plants that are dead missing or heavily declined and need to be replaced.	Review for count and provide proposal.
		X		Spray Bougainvillea with a Copper based fungicide to remove Tillandsia spp./ Air plants.	
		X	2	Remove weeds.	
Heather Grove Ln. Cul-de-sac #22		X		Remove weeds.	
		X		There about 6 plants that are dead missing or heavily declined and need to be replaced.	Review for count and provide proposal.
Baltusrol Signs		X	37	Provide proposal to install (2) 1- gal. Small leaf red crown of thorn on north side.	If already included in previous proposal then plant. If not provide proposal and install with lighting project replacements. M&A: 4-20-15 Replacements are on hold until Committee reviews Crown of thorn plantings.
Doral Cr.					
East R/W		X	2	Mulch beds.	
		X	3	Recommend treating Lirope at the benches with fungicide for yellow tip.	
		X	2	Pavers at benches needs to be pressure cleaned.	
		X	9	Clean sand and dirt off east edge of paver walkway. It is recommended to regrade	

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				Podocarpus hedge mulch area adjacent to the paver sidewalk so to stop dirt washing over edge.	
	X	X	21	Southernmost Tabebuia tree has been removed during utility construction. (photo)	M&A: 10-20-14 The existing replacement tree is not the correct species of Tabebuia. The replacement tree is Tabebuia caraiba or Silver Trumpet tree which has yellow flowers. The species that was removed and matches the surrounding existing trees is Tabebuia chrysotricha or Gold Trumpet tree which has yellow/gold colored flowers. The replacement tree that was planted would be considered a cull under the Florida Grades & Standards tree rating. This grade of tree is not accepted under current County standards or specifications.
West R/W		X	2	Remove Foxtail palm seed stalks.	
		X	2	Review Podocarpus hedge and treat for insects.	
		X	6	Podocarpus hedge needs mulch.	
		X	8	Prune all trees overhanging the Podocarpus hedge back to the fence. The shade created by these trees and/or shrubs will cause the Podocarpus hedge to thin its foliage.	M&A: 3/23/15 Carrotwood Tree
		X	21	Treat turf for broadleaf weeds as soon as weather permits. Area heavily invested with weeds and should be re-sodded.	
Median #23		X		Two Ixora plants need to be replaced toward south end of median.	Provide proposal.
		X		Crown of thorn have been cut back.	
		X	2	Remove Foxtail palm seed stalks.	
		X	19	Provide proposal to plant a 14'-16' oa. Ht. Tabebuia chrysotricha, Gold Trumpet Tree in location where palm was removed.	Provide proposal. On hold until after utility construction. M&A: 10-20-14 It was recommended multiple meetings back to install a Tabebuia tree where one of the palms trees was removed because of Ganoderma. It is recommended to proceed now that construction is over.
Median #24 Treasure Point Cul-de-sac		X	2	Continue watering Bougainvilleas and palms.	M&A: 5/18/15 Continue to review for water weekly.
Fertilization:	X	X		Review FY14-15 recommended fertilization schedule for next fertilization requirement.	Updated status of fertilization.
Reuse Pump Station- Warren St.				Pump station water use and system scheduling still being reviewed by consultant and County Irrigation Project Manager. April 2015: Potable water use 576 gallons, Reuse water 190,000 gallons.	M&A: Please review system if not increased to the usage shown. Reuse water has increased to 80,457 gal. from 34,862 gal. in one week.
Potable Meter Valley Stream Cr.		X		The typical water use based upon the Master Operating Schedule and Water Use is projected at 3,600 gallons for three days per week at 30 minutes per zone.	M&A: 11-17-14 October's water use is 10,049.82 gal. M&A: 12-15-14 November's water use is 18,749.58 gal.



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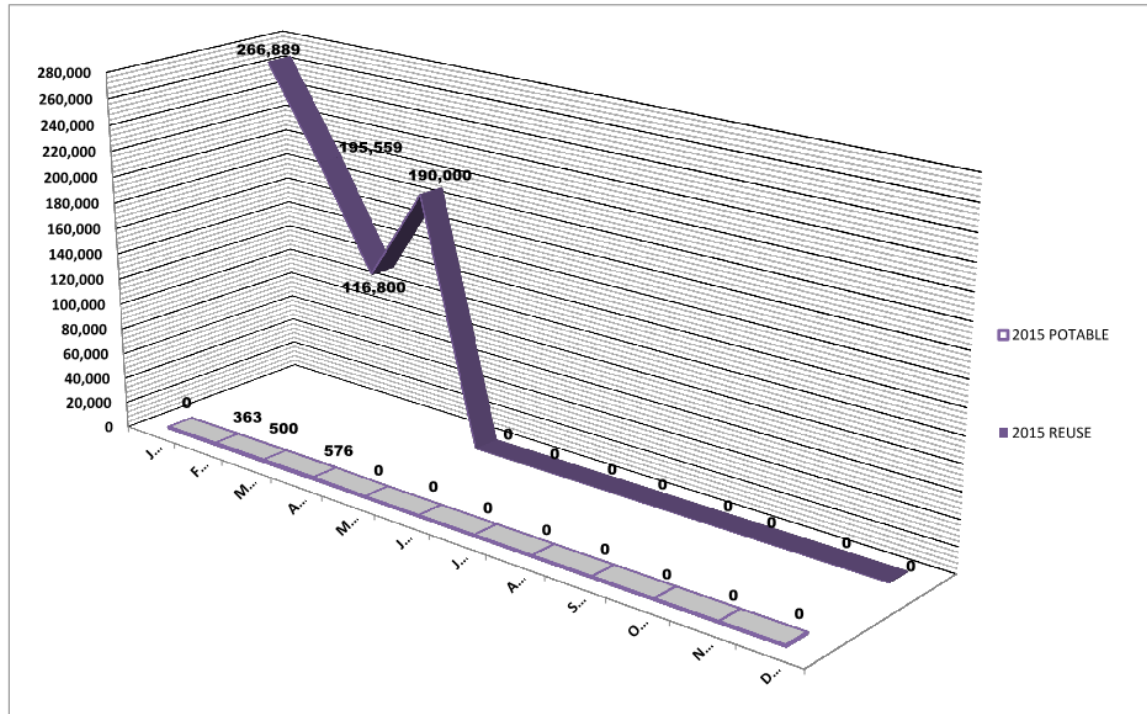
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					M&A: 01-19-15 December 2014 water use 9,486 gal. M&A: 02-16-15 January 2015 water use 16,845 gal. M&A: 03-23-15 February 2015 water use 10,333 gal. M&A: 04/20/15 March 2015 water use 16,680 gal. M&A: 05/18/15 April 2015 water use 14,345 gal.
Irrigation General:					

LOCATION/WORK AREA	S	C	R	OBSERVATION & RECOMMENDATIONS	RESPONSE or COMMENTS
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Lely Golf Estates Beautification MSTU Reuse Mixing Chamber Annual Water Use thru 4/15



Notes: 2014 Total Water Use: Reuse-2,336,976 gallons, Potable- 0

5/18/2015

Warren Street Mixing Chamber Water Use Data: 04/2015								
DATE	DAY	TIME	REUSE PSI	POTABLE WATER METER READING (X 1)	POTABLE WATER USE GALLONS	REUSE WATER METER READING (X x 100)	REUSE WATER USE GALLONS	TOTAL WATER APPLIED
4/1/2015	W	9:30 AM	8	812.65		4,982,900.09		-
4/6/2015	M	9:30 AM	7.5	946.80	134.15	5,017,164.00	34,263.91	34,398.06
4/13/2015	M	9:00 AM	8.5	1,184.52	237.72	5,052,026.00	34,862.00	35,099.72
4/20/2015	M	9:00 AM	7.5	1,288.78	104.26	5,132,483.00	80,457.00	80,561.26
4/27/2015	M	10:45 AM	6	1,333.30	44.52	5,158,759.00	26,276.00	26,320.52
5/1/2015	F	9:30 AM	6	1,388.60	55.30	5,172,900.00	14,141.00	14,196.30
				APRIL 2015 TOTALS:	575.95		189,999.91	190,575.86
				PERCENTAGE OF TOTAL VOLUME USED	0.3%		99.7%	

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LELY GOLF ESTATES MSTU FY 14-15 MINIMUM FERTILIZATION SCHEDULE			
Plant Type	Turf / St. Augustine	Palms, Shrubs & Grn. Covers Beds	Blooming Plants
Areas	(7,000 S.F. +/-)	(13,500 S.F. +/-)	(43,800 S.F. +/-)
Month			
10/1/2014	8-2-12-180 (Florikote Palm Special) 25 lb. per 1000 S.F. (4 - 50 lb.bags) (Applied N= 2.0 lbs./1,000 SQ. FT.)	8-2-12-180 (Florikote Palm Special) 15 lb. per 1000 S.F. (4 - 50 lb.bags) (Applied N= 1.2 lbs./1,000 SQ. FT.) 5 & 10 lbs. per Palm tree (25 - 50 lb.bags)	14-14-14-90 7 lbs. per 1000 S.F. (6 - 50 lb. bags)
11/1/2014			20-20-20 2.5 lbs./25 gal. H2O per 1000 S.F. (108 lbs.)
12/1/2014	OPTIONAL: 21-0-0 2.2 lbs. per 1000 S.F. (1 - 25 lb. bags)		
1/1/2015			14-14-14-90 7 lbs. per 1000 S.F. (6 - 50 lb. bags)
2/1/2015			20-20-20 2.5 lbs./25 gal. H2O per 1000 S.F. (108 lbs.)
3/1/2015			
4/1/2015	8-2-12-180 (Florikote Palm Special) 25 lb. per 1000 S.F. (4 - 50 lb.bags) (Applied N= 2.0 lbs./1,000 SQ. FT.)	8-2-12-180 (Florikote Palm Special) 15 lb. per 1000 S.F. (4 - 50 lb.bags) (Applied N= 1.2 lbs./1,000 SQ. FT.) 5 & 10 lbs. per Palm tree (25 - 50 lb.bags)	14-14-14-90 7 lbs. per 1000 S.F. (6 - 50 lb. bags)
5/1/2015			
6/1/2015			
7/1/2015			
8/1/2014	0-0-22 SPM 1 lb. per 100 S.F. (1 - 50 lb. bags)	0-0-22 SPM 1 lb. per 100 S.F. (3 - 50 lb. bags)	0-0-22 SPM 1 lb. per 100 S.F. (9 - 50 lb. bags)
9/1/2015			
Blooming Plants - Bougainvillea, Fire Bush, Thryallis, Plumbago, Crown of Thorn			
Add to pest and/or disease control sprayings for shrubs and turf: Ferromec AC 15-0-0 plus 6% iron, 3% sulfur @ 1.5 gal./100 gal. H2O. Do not apply to any flower buds or blossoms in flower.			
Alexander, Foxtail & Queen palms: 5 lbs. per palm, Paurotis & Royal palms: 10 lbs. per palm			

Valley Stream Circle Water Use Data: 04/2015								
DATE	DAY	TIME	STATIC POTABLE WATER PSI	POTABLE WATER METER READING (X x 100)	POTABLE WATER USE GALLONS	STATIC BERMAD PSI	BERMAD WATER METER READING (X x 100)	BERMAD POTABLE WATER USE GALLONS
4/1/2015	W	9:30 AM	82	218665		24	67,450.61	
4/6/2015	M	9:30 AM	82	219869.00	1204	31	67,461.64	1103
4/13/2015	M	9:00 AM	82	223450.23	3581	32	67,495.30	3366
4/20/2015	M	9:00 AM	84	227020.84	3571	34	67,529.90	3460
4/27/2015	M	10:45 AM	92	230620.45	3600	38	67,563.71	3381
5/1/2015	F	9:30 AM	90	233010.03	2390	30	67,585.27	2156
APRIL 2015 TOTALS:					14,345			13,466