

McGee & Associates
Landscape Architecture

Project: LELY GOLF ESTATES BEAUTIFICATION, M.S.T.U. **Landscape Architect Observation Report:** January 2020
Location: MSTU DISTRICT ROADWAYS
Project Manager: Dan Schumacher, Collier County Public Services Division, Public Transportation & Neighborhood Enhancements Department
Consultant: McGee & Associates **Consultant's Representative:** Michael A. McGee, rla, isa
Contractor: Superb Maintenance **Contractor's Representative:** Robert Kindelan, Gary Gorden
Report Date: FY19-20, 1/02/2020 **Observation Date:** 1/02/2020

Report No. 4

AC - Indicates major or repeating items recommended to be discussed by the Advisory Committee
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.
Note: Copy picture out of comment boxes and then paste to additional sheet if picture is desired in larger size.

LOCATION/WORK AREA	AC	S	C	R	OBSERVATION & RECOMMENDATIONS	ADDITIONAL COMMENTS
<u>All locations</u>		X	X		Caterpillar activity was observed in multiple Bougainvillea beds in multiple medians. It is recommended all Bougainvillea shrubs should be reviewed and treated for caterpillar activity.	Strikethrough indicates items that have been addressed or being addresses and will be removed from the next month's report. Yellow highlighting indicates items that need to be addressed as soon as possible for safety issues or potential plant damage.
		X	X	12	All areas could use new mulch.	
<u>St. Andrews Blvd. & US 41</u> <u>In bound R/W South</u>		X			Non-MSTU Item: Retirement Center Backup Generator at Driveway location off St Andrews Blvd. The Italian cypress plants that are being called for in the permit plans to be planted around the backup generator site have insect (mites) issues in this area that would require continued pesticide applications. Our experience has shown this plant not to be very successful in Collier County. We would recommend the following plants: Podocarpus 15' planting ht. Mast Tree 15' planting ht. (Full to ground, topped at 16' to 18' ht.) Syzygium paniculatum 'Myrtifolia' – (Eugenia Myrtifolia) 10'-15' planting ht.	
		X	X	4	At the easternmost bench location, the existing soil around the bench paver pad has eroded onto the pad and it is recommended due to the elevation difference to install a residential scale segmental concrete block retaining wall around three side of the pad. Recommend or approved equal Anchor Artisana Wall Systems 3" retaining wall units with Torpedo base blocks at paver pad level. Base block plus three rows total along back of pad and one foot toward roadway on side and then begin stair step down along both side toward road. Use end cap or freestanding wall blocks on stair step rows for finished look on three sides. Color shall be determined by Committee. (Sample)(photo)	
<u>Out bound R/W North</u> <u>Suncoast Credit Union side of sidewalk</u>			X	3	Prune off Paurotis stems that are pushing on phone pedestal.	
<u>St. Andrews Blvd.</u> <u>Median #1</u>					No major issues observed.	
<u>Median #2</u>					No major issues observed.	
<u>Median #3</u>		X	X	7	At Address 105: The middle recently planted Queen's crape myrtle has broken in half. It appears the center support pole taping broke or released and with a heavy foliated crown, along with the staking ties placed below the first lower branches caused the under sized trunk to snap at the bracing support ties. (photo)	M&A 8/7/19: Auto accident has removed the tree completely.



Commented [MM1]:



Commented [MM2]:



Commented [MM3]:

Design * Environmental Management * Planning * Arborist

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		X	X	7	At address 105: Based upon the recently broken tree a review was conducted of the remaining newly planted trees and The western most tree based upon no main leader and formation of the trunk would be graded as a cull plant and needs to be replaced. (photo)	
	X	X		9	At address 105: On east or inbound side of median at Plumbago bed three feet (+/-) of curbing is broken and should be repaired.	Committee Approved: Yes, 5/16/19
	X	X	X	9	At address 105: Recommend installing (3) Alexander palms, Add (2) south of existing Washingtonia palms and (1) east of easternmost Washingtonia palm. Field grown B & B with double 10 ft. clear trunks. Align trunks with median. Expand the Plumbago bed 8 ft. both eastward and westward to add (12) Plumbago 3 gal. (6) on each end. Will require (4) additional spray sprinkler heads and (3) bubblers locations with (2) adjustable flood bubblers per tree.	Committee Approved: Yes, 5/16/19
Median #4					No major issues observed.	
Median #5					No major issues observed.	
Median #6			X		Plumbago beds have declining foliage. Review for insects and/or irrigation coverage.	
	X	X	X	9	At address 228: Recommend installing (3) Alexander palms, Add (2) between existing Washingtonia palms and (1) west of westernmost Washingtonia palm. Field grown B & B with double 10 ft. clear trunks. Align trunks with median. Will require (3) bubblers locations with (2) adjustable flood bubblers per tree.	Committee Approved: Yes, 5/16/19
	X	X	X	9	At address 246: Recommend installing (3) Alexander palms, Add (2) between existing and removed Washingtonia palms and (1) east of easternmost Washingtonia palm. Field grown B & B with double 10 ft. clear trunks. Align trunks with median. Will require (3) bubblers locations with (2) adjustable flood bubblers per tree.	Committee Approved: Yes, 5/16/19
Median #7					No major issues observed.	
Median #8					No major issues observed.	
Median #8A					No major issues observed.	
Median #9					Plumbago beds have declining foliage. Review for insects and/or irrigation coverage.	
Median #10					No major issues observed.	
Forrest Hills Blvd Median #11	X	X	X	9	At address 556: Recommend installing (3) Alexander palms, Add (1) between northern existing two palms and (2) south of southernmost Washingtonia palm. Field grown B & B with double 10 ft. clear trunks. Align trunks with median. Will require (3) bubblers locations with (2) adjustable flood bubblers per tree.	Committee Approved: Yes, 5/16/19
Median #12	X	X			At address 425: One Ilex tree has died and needs to be removed. Tree and stump removal is recommended and replacement be with: Crape Myrtle 'Muskogee', 30 gal., 2" cal., 8'-10' ht., 5'-6' spr., Multi-stem (4 min.).	
		X	X	9	At address 413: Auto accident, remove damaged and broken plant materials and provide count for replacements. (2) Crape myrtles damaged, (40+/-) dwarf Bougainvillea damaged. (photo)	M&A 8/7/19: All the Bougainvillea have sprouted new grow and no replacements are recommended. M&A 12/5/19 Only one Crape myrtle needs to be replaced.
	X	X	X	8	At address 407: Recommend installing (3) Alexander palms, Add (1) between northern existing two palms and (2) between south two Washingtonia palms. Field grown B & B with double 10 ft. clear trunks. Align trunks with median. Will require (3) bubblers locations with (2) adjustable flood bubblers per tree.	Committee Approved: Yes, 5/16/19
	X	X		18	At address 413: East curb section has been broken just south of light pole. The north of light pole is old chipped length of curbing.	Committee Approved: Yes, 5/16/19



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Commented [MM5]:

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	X	X	X	26	At address 426: (1) Holly tree removed. Size: 30 gal., 2.5" cal., 7'-8' ht., 36"-48" spr., 28"-30" dia. root ball if B & B	Consider replacement with same or Crape myrtle tree. M&A 5/7/19: Replace with Holly tree. Committee Approved: Yes, 5/16/19
Forest Hills Cart Crossing & Lake Valley Stream Cr. Median #13						
	X	X	X	9	Recommend adding (2) Tabebuia 'Ipe' trees to median one on each end. Size: 30 gal., 2.5" cal., 7'-8' ht., 36"-48" spr., 28"-30" dia. root ball if B & B	Committee Approved: Yes, 5/16/19
Pebble Beach Blvd. Median #14			X		Perennial peanut needs to be trimmed to edge of sidewalk.	
Median #15			X		Perennial peanut need to be pruned to back of curbing.	
	X	X	X	26	At address 32: (1) Holly tree needs to be removed and replacement considered. Crape Myrtle 'Muskogee', 30 gal., 2" cal., 8'-10' ht., 5'-6' spr., Multi-stem (4 min.). Will require (1) bubblers locations with (2) adjustable flood bubblers per tree.	Replace with crape myrtle species. Committee Approved: Yes, 5/16/19
Median #16	X	X	X	9	At address 59/64: (1) Holly tree needs to be replaced. Size: 30 gal., 2.5" cal., 7'-8' ht., 36"-48" spr., 28"-30" dia. root ball if B & B.	Committee Approved: Yes, 5/16/19
	X	X	X	9	At address 64: Recommend installing (3) Adonidia (Christmas palm) palms, Add (1) to south side of light pole #8 and (2) to north side of light pole #8. Field grown B & B with double 10 ft. clear trunks. Align trunks with median. Will require (3) bubblers locations with (2) adjustable flood bubblers per tree.	Committee Approved: Yes, 5/16/19
Median #17	X	X	X	27	At address 132: (2) Sabal palms with broken trunks.	Remove and replace with same. M&A: 6/12/18 hole filled and ready for replacement planting. M&A: 11-5-18 Approx. (9) Plumbago shrubs are dead or missing at the location where the tree was removed. Committee Approved: Yes, 5/16/19
	X	X	X	27	At address 124: (1) Tabebuia 'Ipe' remove.	Replace with same or crape myrtle species. M&A 5/7/19: Remove tree by excavation. Replace with same - Size: 30 gal., 2.5" cal., 7'-8' ht., 36"-48" spr., 28"-30" dia. root ball if B & B. Committee Approved: Yes, 5/16/19
	X	X	X	26	At address 116: (1) Sabal palms with broken trunks needs to be removed.	Remove and replace with same. M&A: 6/12/18 hole filled and ready for replacement planting. Committee Approved: Yes, 5/16/19
Median #18	X	X	X	25	At address 164: (1) Washingtonia removed.	Flush cut or grind stump. Option 1: Consider removal of all remaining Washingtonia palms and replant with smaller palms (i.e. Foxtail, Alexander, Christmas palms) M&A: 6/12/18 hole filled and ready for replacement planting. M&A 5/7/19: Add (1) Adonidia palm in removed Washingtonia palm location. Field grown B & B with double 10 ft. clear trunks. Align trunks with median. Will require (1) bubblers locations with (2) adjustable flood bubblers per tree. Committee Approved: Yes, 5/16/19
Median #19	X	X	X	11	Recommend adding (10) additional 1 gal. size Perennial Peanut plants to existing planting	Committee Approved: Yes, 5/16/19

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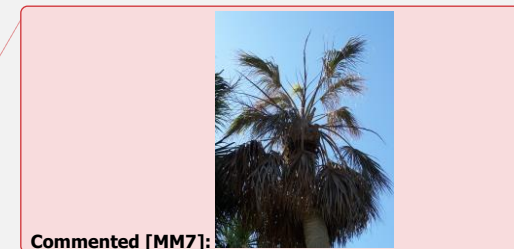
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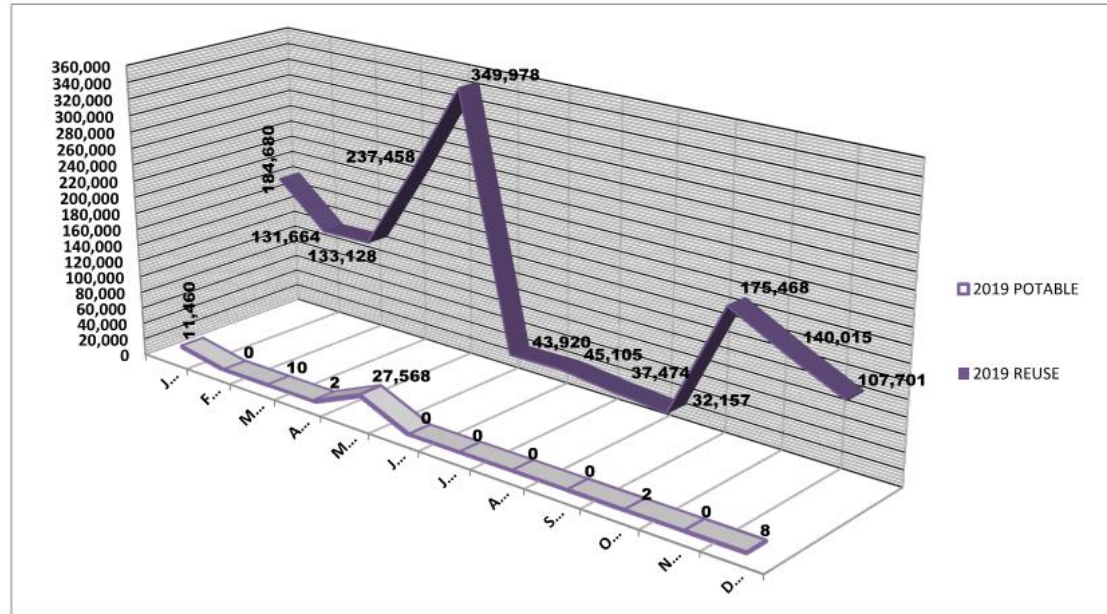
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					on east end.	
Pebble Beach Blvd. Golf Cart Crossing		X	X	8	Southeast corner: Existing Spider lily plants are in decline. It appears to be fungus or herbicide related. (10 +/-) plants are missing and/or dead. (photo)	
	X	X	X	26	North side west end:	M&A: 01/09/18 Recommend replacement of previous removed Foxtail palm due to decline of existing Eucalyptus tree after hurricane Irma. Committee Approved: Yes, 5/16/19
Thorncrest Ln. cul-de-sac #20		X	X	26	(3) Sabal palms removed. (5) dwarf Bougainvillea missing.	Grind or remove stumps and replace missing Sabal with the same. Replant missing Bougainvillea. M&A: 11-5-18 Recommended replacing only (2) Sabal palms that are furthest away from ex. manhole in the middle of the circle. A total of (8) Bougainvillea are missing in the middle of the bed. M&A 5/7/19: On hold until rainy season 2019.
Briarcliff Ln. Cu-de-sac #21	X	X		26	(1) Sabal palms removed. Hurricane debris storage and removal has caused about 60 dwarf Bougainvillea plants to be removed and/or damaged to the point of replacement.	Grind or remove stumps and replace missing Sabal with the same. Replant missing Bougainvillea. M&A: 11-5-18 Approx. (27) total shrubs should be replanted. Plant no shrubs closer than 5 feet off back of curbing. M&A 5/7/19: On hold until rainy season 2019.
Heather Grove Ln. Cul-de-sac #22		X	X	5	(1) Sabal palm has Ganoderma fungus and needs to be removed. No replacement recommended at this time. (photo)	
Baltusrol Signs					No major issues observed.	
Doral Cr. East R/W		X		2	The bridge wall on the roadside face along the east R/W has three locations where stone veneer is missing. (photo)	
	X	X		2	Recommend pressure cleaning bridge walls and treat with "Wet & Forget" product.	
	X	X		4	Recommend pressure sidewalk cleaning pavers and treating with Wet & Forget product.	
	X	X		13	Recommend large open joints between pavers and valley gutter have polymer sand applied to fill large gaps.	Committee Approved: Yes, 5/16/19
West R/W & Rattlesnake Hammock Rd.	X	X		4	Recommend pressure cleaning sidewalk pavers and treating with Wet & Forget product.	
		X	X	13	Recommend large open joints between pavers and valley gutter have polymer sand applied to fill large gaps.	Committee Approved: Yes, 5/16/19
Median #23						
Median #24 Treasure Point Cul-de-sac					No major issues observed.	
Warren St. Pumping Station					No major issues observed.	
Fertilization		X	X		Refer to FY19-20 schedule for requirements.	



LOCATION/WORK AREA	AC	S	C	R	OBSERVATION & RECOMMENDATIONS	ADDITIONAL COMMENTS
Lely Golf Estates Beautification MSTU Reuse Mixing Chamber Annual Water Use thru 12/19						



Notes: 2014 Total Water Use: Reuse-2,336,976 gallons, Potable- 0
 2015 Total Water Use: Reuse - 1,795,449 gallons, Potable - 8,602 gallons
 09/2016 Potable water meter readings not complete. 11/9/16 Meter cleaned and readable
 2016 Total Water Use: Reuse 936,041 gallons, Potable 7,788 gallons.
 2017 Total Water Use: Potable water amounts amended to corrected totals. Reuse 594,189 gal., Potable 981,815 gal.
 2018 Total Water Use: Reuse 1,965,840 gallons, Potable 270,200 gallons
 2019 Total Water Use: Reuse 1,618,748 gallons, Potable 27,680 gallons

1/2/2020

DATE	REUSE PSI	POTABLE WATER METER READING (X 100)	POTABLE WATER USE GALLONS	REUSE WATER METER READING (X x 100)	REUSE WATER USE GALLONS	PUMP STATION METER READING (X100)	TOTAL WATER PUMPED	TOTAL WATER APPLIED
12/3/2019	90	28,213.62		108,958.05		137,287.15		-
12/16/2019	80	28,213.70	8.00	109,306.10	34,805.00	137,612.25	32,510.00	34,813.00
12/20/2019	100	28,213.70	-	109,602.86	29,676.00	137,889.95	60,280.00	29,676.00
1/1/2020	90	28,213.70	-	109,738.30	43,220.00	138,015.48	40,323.00	43,220.00
TOTALS:			8.00		107,701.00		133,113.00	107,709.00
PERCENTAGE OF TOTAL VOLUME USED			0.0%		100.0%		100.0%	

DATE	POTABLE WATER METER READING (X 1)	POTABLE WATER USE GALLONS
12/3/2019	42780.20	
12/16/2019	47250.70	4471
12/26/2019	50700.82	3450
1/1/2020	51830.40	1130
TOTALS:		9,050