

McGee & Associates

Landscape Architecture

Project: GOLDEN GATE BEAUTIFICATION, M.S.T.U.

Project Manager: Collier County Public Services Division, Public Transportation & Neighborhood Enhancements Department

Consultant: McGee & Associates

Contractor: Hannula Landscaping & Irrigation Inc.

Report Period: FY 16-17 February 2017

Location: Tropicana Blvd.

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

Contractor's Representative: Dale Hannula

Report No.: FIVE

AC - Indicates major items recommended to be discussed by Advisory Committee, **S** - Indicates items recommended to be addressed by staff, **C** - Indicates items recommended to be addressed by Contractor

Contractor is requested to address items as soon as possible and indicate in **RESPONSE/COMMENTS** column when items are addressed. 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>AC</u>	<u>S</u>	<u>C</u>	<u>R</u>	<u>MAINTENANCE SERVICES OBSERVATIONS & RECOMMENDATIONS</u>	<u>RESPONSE or COMMENTS</u>
Observation date: 2/10-14/17					<u>MONTHLY ADDRESSED</u>	Please provide responses as completed, ongoing or proposal submitted & any notation deemed important.
Median 1, 3, 4 & 5			X	2	Review all Juniper plantings during dry season for insect (e.g. spider mites) and prune out any dead/brown foliage.	M&A: 02/14/17 Continue to treat Juniper for spider mites. Prune out dead and/or brown foliage.
Median 2, 4 & 5			X	14	Turf Renovation Concept Plan presented for review by Committee.	
			X	20	The narrow turf areas and specifically the ends of the narrow turf areas have grass that is thinning and declining. These narrow turf locations are where the large mowers travel over the same tracks with each mowing. The weakest points are on the ends where the mowers make a turning motion. These turf locations are showing signs of soil compaction which results in the root system decline of the turf. It is recommended to aerate all the turf areas and change the type of mowers being used to reduce any further compaction.	It is recommended the contractor provide a proposal to aerate these turf locations and then apply an additional application of Ferromec AC15-0-0 plus 6% iron & 3% sulfur @ 1.5 gal. per 100 gal. of water. Once aerated the turf areas should be reviewed for any turf replacement prior to applying the iron. M&A: 8/13/15 Advisory committee discussions resulted in requesting the contractor to provide quote for do one median. Our recommended median would be #5. M&A: 7/13/16 Any recommendations will be addressed in turf renovation plans. M&A: 8/8/16 Turf renovation plan is under design and concept plans will be presented in September. M&A: 10/10/16 – Concept plan presented on 9/20/16
Median #1						
Median #2						

Design * Environmental Management * Planning * Arborist

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GOLDEN GATE BEAUTIFICATION, M.S.T.U.

Location: Tropicana Blvd.

Report Period: FY 16-17, February 2017

Report No.: Five

LOCATION/WORK AREA	AC	S	C	R	MAINTENANCE SERVICES OBSERVATIONS & RECOMMENDATIONS	RESPONSE or COMMENTS
Pedestrian shelter at 31 st Ave. SW						
Median #3 Bridge						
Median #4			X	14	Cut back and treat all dwarf Fakahatchee grass for insects. Provide count and proposal for replacements needed.	M&A: 06/10/16 See notations for Median 2, 4 & 5 above about turf.
			X	17	At address 2860, pump station: Deadwood Tabebuia tree.	M&A: 7/13/16 item should be addressed in next weekly service.
			X	17	At address 2930: Review dwarf Fakahatchee grass beds for dead or missing plants. (3) observed.	M&A: 06/10/16 See notations for Median 2, 4 & 5 above about turf.
			X	18	At address 2896: Deadwood Orchid tree.	M&A: 10/12/15 Due to overall decline of this Orchid tree it is recommended to remove and replace with a Jacaranda Tree -14'-16' Ht., 7'-9' spr., 5"-6" cal., F.G./B&B, 30"-34" root ball dia.. M&A: 7/13/16 Any recommendations will be addressed in turf renovation plans. M&A: 10/10/16 – Concept plan presented on 9/20/16
			X	18	There exist multiple small areas of turf that have declined and thinned to the point that replacement is recommended. The decline would be due to previous water stress from sprinkler issues, chinch bug insects, and/or broadleaf weed control that removed the weeds.	M&A: 01/13/16 See notations for Median 2, 4 & 5 above about turf. M&A: 10/10/16 – Concept plan presented on 9/20/16
			X	20	At address 2860 thru 2836: Bermuda grass in has invades the St. Augustine turf on the east side of the median.	M&A: 06/10/16 See notations for Median 2, 4 & 5 above about turf. M&A: 10/10/16 – Concept plan presented on 9/20/16
			X	20	At address 2976 turf grass contains unacceptable amount of weeds.	M&A: 01/12/15 10/8 & 10/9 Herbicide applied. M&A: 11/11/15 Second application of herbicide needed. M&A: 06/10/16 See notations for Median 2, 4 & 5 above about turf. M&A: 10/10/16 – Concept plan presented on 9/20/16
			X	23	At addresses 2836 thru 2824: An 8' x 20' turf area on east side of median has declined and needs to be renovated. Schedule replacement during rainy season.	M&A: 06/11/15 See recommendations above. M&A: 07-14-15 Broadleaf weeds are taking hold in the bad turf area. M&A: 01/12/15 10/8 & 10/9 Herbicide applied. M&A: 11/11/15 Second application of herbicide needed. M&A: 01/13/16 See notations for Median 2, 4 & 5 above about turf. M&A: 06/10/16 See notations for Median 2, 4 & 5 above about turf. M&A:

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						10/10/16 – Concept plan presented on 9/20/16
			X	35	At address 3044: Bermuda grass in turf.	Spray Application on schedule. M&A: 11/11/15 Herbicide to kill Bermuda remove debris and resod with St. Augustine turf. M&A: 01/13/16 See notations for Median 2, 4 & 5 above about turf. M&A: 06/10/16 See notations for Median 2, 4 & 5 above about turf. M&A: 10/10/16 – Concept plan presented on 9/20/16
		X	X	55	At address 2841: Treat Bermuda grass in turf area on north end of Bougainvillea bed.	Hannula: 11-12-13 Completed, M&A: 11-12-13 Not completed. Hannula 1/7/14: Herbicide treatment scheduled for 1/21/14, M&A: A total kill of the turf/Bermuda in the area will be required to remove the Bermuda. Recommend waiting into rainy season to treat and resod. M&A: 01/13/16 See notations for Median 2, 4 & 5 above about turf. M&A: 06/10/16 See notations for Median 2, 4 & 5 above about turf. M&A: 10/10/16 – Concept plan presented on 9/20/16
		X	X	55	At address 2824: Treat Bermuda grass in turf area on north end of Thryallis bed.	Hannula: 11-12-13 Completed, M&A: 11-12-13 Not completed. Hannula 1/7/14: Herbicide treatment scheduled for 1/21/14 Spray Application on schedule M&A: 11/11/15 Herbicide to kill Bermuda remove debris and resod with St. Augustine turf. M&A: 01/13/16 See notations for Median 2, 4 & 5 above about turf. M&A: 10/10/16 – Concept plan presented on 9/20/16
Pedestrian Shelter at 28th Ave. SW						
Median #5			X	10	At address 4791: Prune dead & damaged foliage out of Juniper bed on south end of median.	
			X	19	There exist multiple small areas of turf that have declined and thinned to the point that replacement is recommended. The decline would be due to previous water stress from sprinkler issues, chinch bug insects, and/or broadleaf weed control that removed the weeds. Also broadleaf weed control is needed.	M&A: 01/12/15 10/8 & 10/9 Herbicide applied. M&A: 11/11/15 Second application of herbicide needed. M&A: 01/13/16 See notations for Median 2, 4 & 5 above about turf. M&A: 06/10/16 See notations for Median 2, 4 & 5 above about turf. M&A: 10/10/16 – Concept plan presented on 9/20/16
			X	19	At address 2733: Small dead turf area needs to be repaired.	M&A: 01/13/16 See notations for Median 2, 4 & 5 above about turf. M&A: 06/10/16 See notations for Median 2, 4 & 5 above about turf. M&A: 10/10/16 – Concept plan presented on 9/20/16

GOLDEN GATE BEAUTIFICATION, M.S.T.U.

Location: Tropicana Blvd.

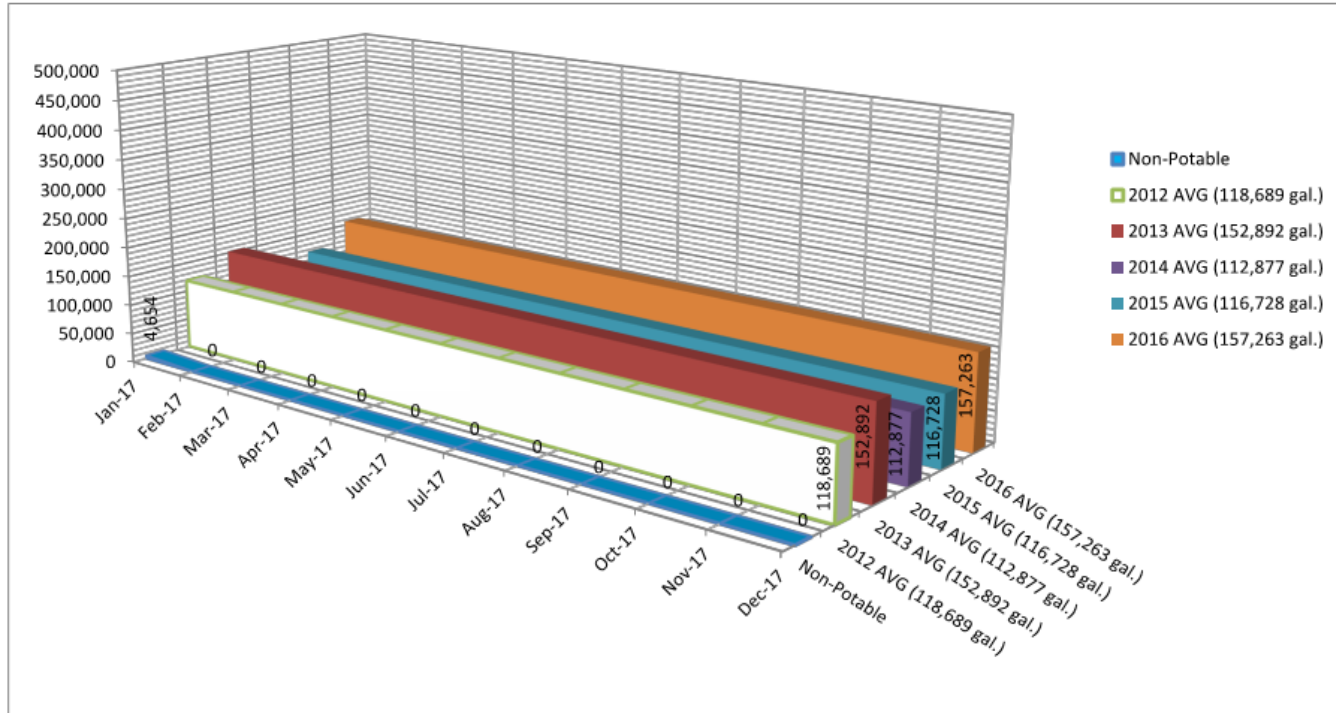
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LOCATION/WORK AREA	AC	S	C	R	MAINTENANCE SERVICES OBSERVATIONS & RECOMMENDATIONS	RESPONSE or COMMENTS
			X	19	At address 2697: There exist a 20' x 60' area of turf that is in heavy decline and needs to be repaired.	M&A: 01/13/16 See notations for Median 2, 4 & 5 above about turf. M&A: 06/10/16 See notations for Median 2, 4 & 5 above about turf. M&A: 10/10/16 – Concept plan presented on 9/20/16
			X	22	At addresses 2690 - 2672: The turf area between the Variegated Arborcola and dwarf Fakahatchee grass has declined and needs to be renovated. Schedule replacement during rainy season.	M&A: 07-14-15 Broadleaf weeds are taking hold in the bad turf area. M&A: 01/12/15 10/8 & 10/9 Herbicide applied. M&A: 11/11/15 Second application of herbicide needed. M&A: 01/13/16 See notations for Median 2, 4 & 5 above about turf. M&A: 06/10/16 See notations for Median 2, 4 & 5 above about turf. M&A: 10/10/16 – Concept plan presented on 9/20/16
Median #6						
					<u>QUARTERLY ADDRESSED</u>	
Accent/Street Lighting						
Lighting Disconnect & Sensor Locations					East R/W between 13th Ave. & PL. Lighting Disconnect & Sensor West Alley off 28 th Ave. SW Lighting Disconnect & Sensor West R/W in Alley between G.G. Pkwy. & 26 th PL. SW, Lighting Disconnect & Sensor West R/W at corner of 30 th PL. SW & Tropicana Lighting Disconnect & Sensor	
Fertilizations			X		Refer to attached schedule. A March turf fertilization is scheduled.	
Irrigation Pump Station Electric Meter in Alley west of pump sta.			X		The January water use total based upon Hydropoint WeatherTrak data was 4,654+/- gallons.	

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GG MSTU TROPICANA Blvd. Well Annual Water Use for 2017



Water Use Goal:

(1.35 ac. of Plants & Turf)

Recommended: Supplemental watering rate of .75 to 1 inch per week. One inch per week equals 36,658 gallons per week or 146,633 gallons per month.

2012 total water use Jan. 2012 – Dec. 2012: 646,177 gallons or 17.63 inches of supplemental water pumped.

2013 total water use Jan. 2013 – Dec. 2013: 1,834,698 gallons or 50.04 inches of supplemental water pumped.

2014 total water use Jan. 2014 – Dec. 2014: 1,354,526 gallons or 36.95 inches of supplemental water pumped. 26% water use reduction

2015 total water use Jan. 2015 - Dec. 2015: 1,400,734 gallons or 38.21 inches of supplemental water pumped, 3% water use increase, Nov. & Dec. system not functioning properly, 9/2016 new controller system activated, some readings based upon estimated projections.

2016 total water use Jan. 2016 – Dec. 2016: 1,887,160 gallons or 51.48 inches of supplemental water pumped.

2/13/2017

GOLDEN GATE MSTU FY 16-17 RECOMMENDED FERTILIZATION SCHEDULE - TROPICANA BLVD.			
Plant Type	Turf / St. Augustine	Canopy & Palm Trees	Shrubs & Grn. Cover Beds
Month / Areas	(32,714 S.F.)		(29,145 S.F.)
Jan-17	15-0-15 Rotary spreader blend 7 lbs. per 1000 S.F. (5 - 50 lb. bags)	No specific or additional fertilizer required for mature trees or palms.	8-2-10 Ultra (Florikote Collier blend) 15 lb. per 1000 S.F. (6 - 50 lb.bags)
Feb-17			
Mar-17	15-0-15 Rotary spreader blend 7 lbs. per 1000 S.F. (5 - 50 lb. bags)		
Apr-17			8-2-10 Ultra (Florikote Collier blend) 15 lb. per 1000 S.F. (6 - 50 lb.bags)
May-17	Iron plus Soil Acidifier		Iron plus Soil Acidifier
Jun-17 thru Sept-17	Place request for October 2017		Place request for October 2017
10/1/2016-2017	15-0-15 Rotary spreader blend 7 lbs. per 1000 S.F. (5 - 50 lb. bags)		8-2-10 Ultra (Florikote Collier blend) 15 lb. per 1000 S.F. (6 - 50 lb.bags)
Nov-16			
Dec-16		No specific or additional fertilizer required for mature trees or palms.	
Optional- At maintenance Consultants Recommendation. Blooming Plants - Bougainvillea, Blueberry Flax Lily			
Optional: 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			
- Indicates period of no Nitrogen or Phosphorus applications.			
Do not apply to any flower buds or blossoms in flower.			