

McGee & Associates

Landscape Architecture

Project: GOLDEN GATE BEAUTIFICATION, M.S.T.U.
Project Manager: Darryl Richards, r.l.a., P.S.D. – P.T.N.E. Dept.
Consultant: McGee & Associates
Contractor: Hannula Landscaping & Irrigation Inc.
Report Period: FY 14-15 January 2015

Location: Golden Gate Pkwy.
Consultant's Representative: Michael A. McGee, rla, isa
Contractor's Representative: Dale Hannula

Report No.: Four– FY 14-15

S - Indicates items to be addressed by staff.

C - Indicates items to be addressed by Contractor

This report is prepared strictly to provide recommendations only and in no manner is to imply any authorization to the Contractor or its Sub-Contractors to perform services for Collier County. 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>MAINTENANCE SERVICES OBSERVATIONS & RECOMMENDATIONS</u>	<u>RESPONSE or COMMENTS</u>
Observation dates: 01/12-15/15				MONTHLY ADDRESSED	
Median 12 thru 32		X	5	Complete pruning of Fakahatchee grasses and Red Fountain grass.	
Median #29 – 25 & 23-12 (3-7 & 9--20)					
Median #12 – 29 (3-19)		X	11	Medians that contain turf areas.	M&A: 02-13-14 The broadleaf weed treatment program needs to continue for all turf areas. M&A: 12-12-14 It is estimated that all median with turf have broadleaf weeds within over 75% to 90% of the turf areas.
Median #32 (1)		X	9	West end: Indian hawthorn shrubs have multiple dead and/or missing plants. Provide count of dead, missing or declining plants. If over 50 percent of plants are found to be dead missing or declining then it is recommended the area be renovated with Blueberry Flax lily 1 gal. size 36" o.c., 48" over back of curbing and other plants.	M&A: 7/9/14 There are over 50 plants that are dead, missing or in decline that need to be removed. Provide proposal to remove existing plants and install Flax lily 1 gal. size
		X	19	Pavers need to be cleaned to remove stains and gum.(photo11-14-12)	Hannula: 11-12-13 Pavers were cleaned, M&A: Please enlarge photos and review. Pavers still have black stains from mold and gum. Hannula 1/13/14: Estimate #14-0005; submitted 1/10/14. Pending fund 111 staff approval. M&A; 8-14-14 Consultant review and researching best cleaning process to remove chewing gum. M&A: It is recommended to pressure clean first with an orbital rotating head and then use a single high pressure spray head with heated water at about 285 degrees.
Median #31 (2)		X	10	Review Juniper on east end: Provide count of declined, missing or damaged Juniper due to pedestrian traffic. Approx. (4) plants have brown foliage and (4) plants are damaged.	
Median #30 (2A) (Pavers only)					

Comment [s21]:



Comment [s22]:



Design * Environmental Management * Planning * Arborist

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Median #29 (3)		X		Transplanted Carissa plants are in transplant shock and water stress. Increase irrigation if it is not already.	
		X	12	Turf areas in need of replacement. See Quarterly Addressed section for comments.	
Median #28 (4)		X	2	West end bed: Liriope bed contains Torpedo grass.	
		X	11	Turf areas in need of replacement. See Quarterly Addressed section for comments.	
Median #27 (5)		X	9	East end: 3 (5) – Flax lily are dead or missing. Replace with 1 gal. size.	
		X	12	Turf areas in need of replacement. See Quarterly Addressed section for comments.	
Median #26 (6)		X		West end bed: (5) Dead and/or missing Flax lily plants. Install 1gal. size.	
		X	12	Turf areas in need of replacement. See Quarterly Addressed section for comments.	
		X	20	Liriope plants in the west end bed have Torpedo grass.	Hannula: 11-12-13 On weekly schedule. Hannula 1/13/14: Fucilade to be applied during next herbicide application on Jan 20 th 2014, M&A: 3-13-14 Hand remove brown/dead Torpedo grass in Liriope. M&A: 4-12-14 Continue to review and hand remove Torpedo grass. M&A: 5-14-14 Still minor amounts of Torpedo grass exist. Continue to review, treat, and hand remove.
Median #25 (7) Pump Station- Median #25 (7) east end, 15 hp , 8" well, VFD, Motorola Scorpio controller S3405-operates G.G. Pkwy. Medians 22-32 (1-10)		X		Transplanted Carissa plants west of pump station are in transplant shock and water stress. Increase irrigation if it is not already.	
		X	5	Prune white Fountain grass and Fakahatchee grasses.	
		X	12	Turf areas in need of replacement. See Quarterly Addressed section for comments.	
Median #24 (8)		X		Torpedo grass is back in Liriope plants. Hand remove and/or treat.	
		X	8	Flax lily need to reviewed and treated for rust disease.	
		X	18	Provide count to fill in missing Liriope plants in middle area of median.	Hannula 1/13/14: Estimate #14-0005; submitted 1/10/14. Pending fund 111 staff approval,
Median #23 (9)		X	5	Prune Fakahatchee grasses.	
		X	12	Turf areas in need of replacement. See Quarterly Addressed section for comments.	
		X	26	Damaged area has grown over with native grasses and weeds. Apparent auto damage to turf on west median end. Provide proposal for repair and replacement. (photo)	Plant material to be replaced; sod will not be replaced. Hannula 1/13/14: Estimate #14-0005; submitted 1/10/14. Pending fund 111 staff approval
Median #22 (10)	X	X		Median is in need of renovation due to amount of missing plants in multiple beds.	
		X	4	West end bed: Remove flagged declining Pine tree.	
		X	4	West end bed: (10) Juniper parsoni are missing. Replace with 3 gal. size.	
		X	9	East end bed: 3 – White African Iris are dead or missing. Replace with 1 gal. size.	M&A: 8-14-14 (3) more additional Iris have declined or have died. M&A: 11-13-14 There are only (3) remaining Iris and (2) of those are in decline. It is recommended to



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					remove the Iris and install a planting of Variegated Arbuticola "Trinette" in a three row planting. (45) 3 gal. size plants would be required. These Iris were originally planted by the Contractor as a bed expansion.
		X	12	Turf areas in need of replacement. See Quarterly Addressed section for comments.	
		X	26	West end turf area: Area has grown over with native grasses and weeds. Previously water stressed and/or chinch bug damage. Review irrigation coverage and treat as required. Remove dead turf and resod. (photo)	Hannula: 11-12-13 On monthly schedule. Hannula 1/13/14: 1 st Treatment Completed on 12/2/13; 2 nd Treatment Scheduled for 01/20/14. 12/27/14 Irrigation coverage reviewed; irrigation coverage is fine. Estimate #14-0005; submitted 1/10/14. Pending fund 111 staff approval
Median #21 (11)		X	2	On the west end of the median there is a pile of construction debris/dirt & rocks at the back side of the pavers that has been overgrown with weeds. Please review and provide comments as to how this happened and who may have caused this.	
		X	2	Treat median for ants. Ant mounds are present along the back of curbing.	
		X	12	Turf areas in need of replacement. See Quarterly Addressed section for comments.	
		X	28	East end bed: Flax lily has Torpedo grass in them. Continue to remove and treat Torpedo grass in Iris plants.	Hannula: 11-12-13 On weekly schedule. Hannula 1/13/14: Fucilade to be applied during next herbicide application on Jan 20 th 2014, M&A: 4-12-14 Continue to review and hand remove Torpedo grass. M&A; 5-14-14 Still minor amounts of Torpedo grass exist. Continue to review, treat, and hand remove.
		X	24	Middle turf area: Area has grown over with native grasses and weeds. Previously water stressed and/or chinch bug damage. Review irrigation coverage and treat as required. Remove dead turf and resod. (photo)	Hannula: 9-5-13 Irrigation adjustment completed. M&A: 9-12-13 Provide proposal to staff to resod with St. Augustine. Hannula 1/13/14: Estimate #14-0005; submitted 1/10/14. Pending fund 111 staff approval
Median # 20 (12) Pump Station- Median #20 (12) west end, 15 hp , 8" well, VFD, Motorola Irrinet controller #34-operates G.G. Pkwy. Medians 21-15 east side of canal, (11-18) & Hunter Blvd. & Coronado Pkwy.		X	5	Prune Fakahatchee grasses.	Second bed from east end: Prune dead Fakahatchee grasses.
		X	12	Turf areas in need of replacement. See Quarterly Addressed section for comments.	
Median #19 (13)		X	7	On the west end of the median the previously replaced Big Rose crown of thorn have been run over of walked over. (4) plants are dead, missing and/or damaged and need to be replaced.	

Comment [s24]:



Comment [s25]:



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		X	12	Turf areas in need of replacement. See Quarterly Addressed section for comments.	
Median #18 (14)		X	5	Prune red Fountain grasses.	M&A: 12-12-14 What is the delay in pruning these plants?
		X	12	Turf areas in need of replacement. See Quarterly Addressed section for comments.	
		X	15	Turf areas look very bad. Unless an auto accident is to blame the Contractor needs to address this bad turf area that was under its maintenance.. (photo)	Hannula 1/13/14: Estimate #14-0005; submitted 1/10/14. Pending fund 111 staff approval
Median #17 (15)		X		2nd bed from west end: remove remaining Pittosporum and Indian hawthorn shrubs and then expand adjacent Flax lily plants. (60) 1 gal. size.	
		X	12	Turf areas in need of replacement. See Quarterly Addressed section for comments.	
Median #16 (16)		X	6	The Crape myrtle on the west end of the east bed is covered with Tillandsia (Air plants) species and is in a declining state. It is recommend to remove these plants.	M&A: 1-15-15 One additional Crape myrtle on west end also needs air plants removed.
		X	12	Turf areas in need of replacement. See Quarterly Addressed section for comments.	
Median #15 (17 – East of canal)		X	12	Turf areas in need of replacement. See Quarterly Addressed section for comments.	
		X	18	4 th bed from east end: Expand Flax lily bed into area of removed plants. Remove all Indian hawthorn plants. (photo)	Hannula 7/16/13: County postponed replacements until Oct. 2013., M&A: 9-12-13 Provide proposal to staff for replacements. M&A: 12-12-13 (1) Indian hawthorn still needs to be removed at base of Oak tree. Hannula 1/13/14: Indian hawthorn removed.
Median #15 (17) (Old #18 –West of canal)		X		Review Flax lily plants and provide count of dead or missing plants. 1 gal. size.	
Median #14 (#19 – Paver only)					
Median #13 (18) (Old #20)					
		X	10	Turf areas in need of replacement. See Quarterly Addressed section for comments.	
Median #12 (19) (Old #21, Sign) Pump Station- Median #12 (19) (Old #21) east end bed, 7.5 hp , 6" well, VFD , Motorola Scorpio controller S3401-operates G.G. Pkwy. Medians 11-15 west side of canal (19-22).		X	4	New Tabebuia tree needs to be reviewed for replacement.	
		X	4	2 nd bed from east end: Remove weeds in Iris and Juniper beds.	
		X	12	Turf areas in need of replacement. See Quarterly Addressed section for comments.	
Median #11 (20) (Old #22)					
Irrigation General:	X	X	2	If the Bermad pulse counter is working then request from Darryl's office to contact the County Irrigation Project Manager to set the maximum flow per week as follows: Pump station in median #25 - 100,000 gallons. Pump station in median #20 - 55,000 gallons. Pump station in median #12 - 22,000 gallons. at which time an alarm will be sent to Hannula Landscaping.	

Comment [s26]:



Comment [s27]:



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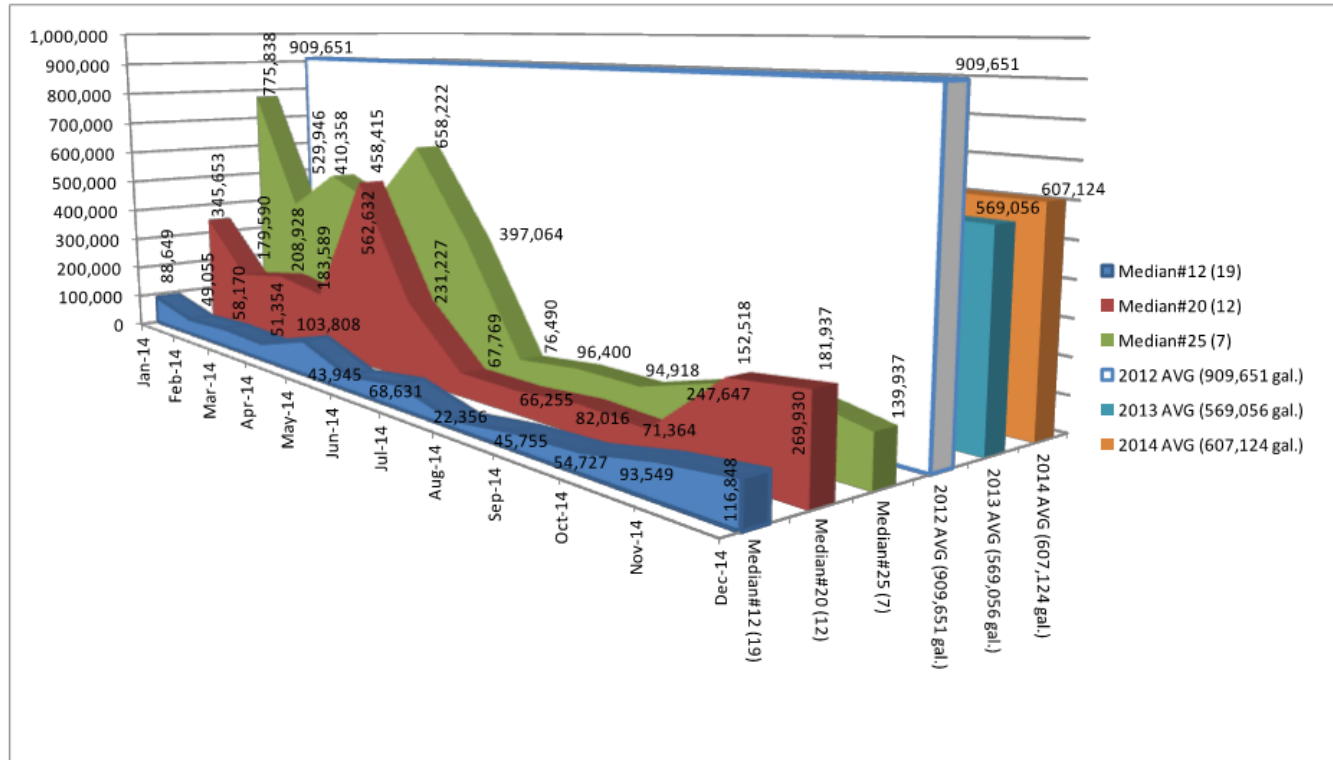
LOCATION/WORK AREA	S	C	R	MAINTENANCE SERVICES OBSERVATIONS & RECOMMENDATIONS	RESPONSE or COMMENTS
		X	7	<p>The irrigation water use is extremely high. For Pump station in median #25 based upon the 2.45 ac. of irrigated area; (1 acre inch of water equals 27,154.29 gallons) the water use of 658,222 gallons applied 9.9 inches of water over one month. Please review the system for leaks and the flow meter accuracy. By copy of this report we recommending that the system have a maximum amount flow alarm or shut down entered into the system. Recommended maximum flow for pump station in median #25 should be set at 400,000 gallons.</p> <p>For Pump station in median #20 based upon the 2.03 ac. of irrigated area; (1 acre inch of water equals 27,154.29 gallons) the water use of 562,632 gallons applied 10 inches of water over one month.</p> <p>Recommended maximum flow for the pump station in median #20 should be set at 220,000 gallons.</p> <p>For Pump station in median #12 based upon the 1.25 ac. of irrigated area; (1 acre inch of water equals 27,154.29 gallons) the water use of 103,808 gallons applied 3 inches of water over one month.</p> <p>Recommended maximum flow for the pump station in median #12 should be set at 85,000 gallons.</p> <p>It is also recommended to perform a main line leak test. The test is to consist of pressurizing the main line for a 24 hour period and to take flow meter readings before and after.</p>	<p>M&A: 7/9/14 Irrigation system is being evaluated by contractor and consultant.</p> <p>M&A: 11-13-14 Once existing Bermad pulse counters are working it is recommended to set a weekly high use alarm for the systems as listed below.</p> <p>Pump station in median #25 - 100,000 gallons. Pump station in median #20 - 55,000 gallons. Pump station in median #12 - 22,000 gallons.</p>
QUARTERLY ADDRESSED					
All medians with turf:		X	12	Turf areas in need of replacement.	Provide proposal to show required turf replacement square footage for each median.
Median #23 (9)		X	17	3 rd bed from east end: Add 12- 3 gal. Fakahatchee grass in middle of bed.	Hannula 7/16/13: County postponed replacements until Oct. 2013., M&A: 9-12-13 Provide proposal to staff for replacements. Hannula 1/13/14: Estimate #14-0005; submitted 1/10/14. Pending fund 111 staff approval
	X		36	The Mr. Farrow and Mr. Melchore memorial plaque and base need to be cleaned and base repainted. (photo)	
Median #17 (15)		X	15	2 nd bed from west end: Remove declining Variegated Pittosporum and Indian hawthorn shrubs and replant area with Blueberry Flax Lily. 60 – 1 gal. plants will be needed to expand westward from existing Flax lily bed.	Hannula 7/16/13: County postponed replacements until Oct. 2013., Removal on schedule to completed by 9/15/13., M&A: 11-13-14 remove all Pittosporum shrubs and then replant with Flax lily. Provide proposal. Hannula 1/13/14: Estimate #14-0005; submitted 1/10/14. Pending fund 111 staff approval, M&A: 4-12-14 Remove additional dead and dying variegated Pittosporum shrubs.

Comment [mam8]:



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GG MSTU Golden Gate Parkway Median #25 (7)-20 (12)-12 (19), Well Annual Water Use for 2014



Water Use Goal:

(5.73 ac. of Plants & Turf)

Recommended: Supplemental watering rate of .75 to 1 inch per week. One inch per week equals 155,594 gallons per week or 622,376 gallons per month.

2012 total water use: 10,915,815 gallons or 70.16 inches of supplemental water pumped.

2013 total water use: 6,828,673 gallons or 43.89 inches of supplemental water pumped.

2014 total water use: 7,285,490 gallons or 46.83 inches of supplemental water pumped.

1/2/2015