

# Loxahatchee River District

Water Reclamation | Environmental Education | River Restoration

2500 Jupiter Park Drive, Jupiter, Florida 33458-8964

Telephone (561) 747-5700 • Fax (561) 747-9929 • [www.loxahatcheeriver.org](http://www.loxahatcheeriver.org)



D. Albrey Arrington, Ph.D., Executive Director

## MEMORANDUM

TO: D. Albrey Arrington, Ph.D.  
Executive Director

FROM: Kris Dean, P.E.  
Director of Engineering Services

DATE: December 7, 2015

SUBJECT: Director's Report - Engineering Division  
December 2015 Board Meeting

---

## Developer Projects

Staff were active on 11 Developer projects including the following activities.

Plan Review: Staff performed plan reviews and approvals and attended project coordination meetings for the following projects.

*Barcelona Commercial:* The project provides development consisting of medical, office, retail and restaurant space with connection to the existing gravity system completed last year to service Barcelona.

Construction: Staff performed construction inspections, shop drawing review, RFI responses and/or attended preconstruction meetings for the following projects.

*Jupiter Motor Coach Resort Onsite:* This project provides a private lift station and collection system to serve approximately 100 recreational vehicle hook-ups and community facilities. It will ultimately connect to the District via a 6" force main being installed as part of a separate project.

*Windsor Park North and West:* Abandonment of services and installation of new services to accommodate revised development in the area.

Gordon M. Boggie  
Board Member

Dr. Matt H. Rostock  
Board Member

Stephen B. Rockoff  
Chairman

Harvey M. Silverman  
Board Member

James D. Snyder  
Board Member

*Admiral's Cove West Comfort Station:* This project provides a commercial duplex grinder system for a new comfort station at the Admiral's Cove West golf course.

*The Bluff's Marina:* This project provides a commercial duplex grinder system for a new marina building at the Bluff's Marina.

*Inlet Plaza:* This project provides gravity services with connections to an existing gravity system for the new Inlet Plaza Development. Grease traps to serve permitted restaurant space are also being installed.

*Sonoma Isles Residential:* This project provides a gravity collection system and lift station to serve approximately 275 residential units and club facilities. This project was formerly known as Lakewood and Parcel 19.

*Boyd Medical:* This project includes new medical office space and connection to an existing District gravity system. Included with the project was lining of the existing gravity main associated with the development.

Final Completion: Staff performed final completion activities to include final inspections, record drawings review and punch lists.

*Braman Motor Cars:* An expansion to the Braman Motor Cars lot to include a parking garage and additional office space.

*Sonoma Isles Commercial:* This project provides a gravity collection system to serve the new commercial development at Sonoma Isles (fka Lakewood).

#### One Year Inspections:

*Mangrove Bay:* This project provided service connections to an existing gravity system for the Mangrove Bay development.

### **Capital Projects**

Staff were active on 13 Capital projects including the following activities.

Design/Bid: Staff are currently in the design or bidding phase for the following projects.

*Lift Station Rehabilitations for 2016:* Staff have completed the design for rehabilitation of lift stations 62, 151 and 157. The project will advertise for bids on December 6, 2015.

*Merritt Way Low Pressure Service Upgrades:* Staff have completed the design of low pressure service upgrades for Merritt Way and are currently permitting with Martin County.

*Cleaning, TV Inspection and Lining Services:* Staff are working with LMK Services, Inc. for TV Inspection of the gravity collection systems for Lift Stations 57, 58, 62, 65, 66, 68, 94 and 97. See related change order in Tab 5G

Consultant Projects:

*Master Lift Station Rehabilitation Preliminary Engineering Report:* Staff coordinated with the consultant for flow and pressure measurements. This project looks at the final phase of rehabilitation for the Master Lift Station located just east of Pennock Ln and Indiantown Rd. The project will include pump replacement, electrical system evaluation, piping modifications, bypass facilities, isolation valves and coatings.

*Rolling Green Low Pressure System:* Staff assisted in field inspections and resident coordination during construction activities. This project is a neighborhood sewerage project for 24 properties located on Rolling Green Rd west off Ellison Wilson Rd, just south of Bert Winters Park.

*Alternate A1A Subaqueous Crossing Preliminary Engineering Report:* Staff coordinated with the consultant for pressure measurements. This project looks at the replacement options and emergency bypass pumping plan for the 24" wastewater force main crossing the Loxahatchee River at Alternate A1A.

*Loxahatchee River Road IQ Main Replacement:* The consultant is working with ACOE for permitting. This project replaces the existing aerial crossing just north of the Eagles Nest development with a subaqueous directional drill.

*Jupiter Inlet Colony Neighborhood Rehabilitation:* This project provides a gravity collection system and lift station to serve the approximate 240 homes and town facilities located in Jupiter Inlet Colony. Construction is anticipated to begin in April 2016.

*Little Oaks/River Oaks Gravity Collection System:* Staff coordinated with the engineering consultant, attended progress meetings and provided periodic site inspections for progress, construction materials and dewatering sampling for this project that installs a gravity collection system and lift station to serve a combined 71 lots in the Little Oaks and River Oaks developments off of Roebuck Road.

*Maplewood Drive Force Main:* Staff performed plan, specification and permit reviews for this project that installs a new back up force main from LS 21 to the force main in Indian Creek Parkway. This project is currently out to bid.

*Jupiter Plantation Force Main Replacement:* Staff performed plan, specification and permit reviews for this project that replaces the existing force main from LS 13 in Jupiter Plantation to the gravity collection system in Center St. This project is currently in

permitting with PBC Land Development

Construction: Staff provided construction inspection and engineering oversight for the following projects.

*2015 Lift Station Rehabilitations:* This project provides rehabilitation and upgrades to 5 existing District lift stations that are deficient.

Final Completion: None

One Year Inspections: Staff performed one year warranty inspections on the following projects.

*49<sup>th</sup> Terrace:* This project installed a low pressure force mains system with a connection to the existing gravity system in Jupiter Plantation to serve 4 lots on 49<sup>th</sup> Terrace.

### **Other Utility Projects**

These projects include plan review, coordination and inspections associated with other utilities such as the Town of Jupiter, Village of Tequesta, Town of Juno Beach, Palm Beach County and Martin Co.

*Jupiter North (Town of Jupiter):* A project to replace existing water mains in portions of Jupiter north of the river. Staff are locating all sanitary service laterals and cleanouts in the area and coordinating with the Town to limit conflicts.

*Toney Penna Dr. and Old Dixie Hwy:* This is a Palm Beach County right of way improvement project at the intersection of Toney Penna Drive and Old Dixie Highway. Staff attended a utility coordination meeting and performed soft digs in the field for utility locates.

*Jupiter Pines South:* This is a Town of Jupiter water main improvement project. Staff are locating all sanitary service laterals and cleanouts in the area and coordinating with the Town to limit conflicts.

*Jupiter Park Drive:* this is a Town of Jupiter right of way improvement project that installs sidewalks along portions of Jupiter Park Drive. Staff are coordinating with the Town to avoid existing force mains in the right of way.

### **Construction**

Staff were involved in various projects including the following activities.

*Jupiter North (Town of Jupiter):* Staff are working to raise and repair buried and/or damaged cleanouts identified during investigations/locations for the Town of Jupiter.

*Lift Stations 57, 58, 62, 65, 66, 68, 94 and 97:* Staff are systematically working in these areas to

locate or install right of way clean outs in coordination with upcoming TV inspections.

*12" Nano Concentrate:* Staff worked with Operations to install a new flow meter and plug valve.

### **Standards Updates**

*Lift Station Electrical and Control:* Revisions are complete to lift station electrical and control standards to address changing FDEP rule requirements and will be included in a December update to District standards.

*Lift Station Base Plates:* Based on input and concerns from Construction and Operations staff revisions to the lift station base plates are being finalized and will be included in a December update to District standards. Revisions will address conflicts on fastener sizing, provide an option for installation of base plates without removal of existing base ell fasteners and provide modifications to ensure a proper grout pad can be installed beneath the base plates.

*Manhole Frame and Cover Riser Rings:* Revisions are being finalized to the installation detail for manhole riser rings and will be included in a December update to District standards. Revisions will address manufacturer installation recommendations.

Signed,

Kris Dean, P.E.  
Director of Engineering Services

/KD