

**VILLAGE OF KEY BISCAYNE
SANITARY SEWER AND WATER MAIN DESIGN
PROGRESS REPORT
11/16/2005**

Task 2 Survey Update

An update to the previous survey work will be required to support the design effort due to the amount of time that has passed since the previous survey effort. The survey update effort will consist of the following:

- Verify that all visible surface improvements from right of way line to right of way line for each survey route are in place or altered as the case may be.
- Verify those portions of the fronts of building that lie adjacent to the project route to facilitate the placement of sewer laterals.
- Confirm or obtain spot elevations in areas where apparent changes may have taken place since the last survey was conducted, as referenced to the National Geodetic Vertical Datum of 1929.

QUALIFICATIONS:

- All field and office work efforts, together with deliverables thereof, shall be performed in strict accordance with the applicable provisions of the “Minimum Technical Standards for Land Surveying in the State of Florida”, pursuant to Rule 61G17-6 of the Florida Administrative Code.
- Underlying matters of title that may affect the project corridor will not be addressed.

Status:

100% Complete

Previous survey has been updated based on any topographical changes that were observed in field since the survey work was originally performed.

Task 3 Cost Estimates

PBS&J will prepare updated probable project costs, as defined by the American Association of Cost Estimators. Cost Estimates will be prepared for the following:

- Initial Cost Update Based on Updated Unit Costs – This will consist of updating the unit costs used for the previous detailed estimate for the sewer project and the preliminary water main estimate. This estimate will be provided for the Village’s

use for the Miami-Dade's General Obligation Bond (GOB).

- Update Sewer Estimate Based on Design Changes – This will consist of updating the detailed estimate based on any changes to the sewer design.
- Water Main Estimate – Prepare detailed estimate based on water main design. It is assumed that an estimate will be provided with the 90% and 100% design submittals.

Status:

25% Complete

The initial cost update based on updated unit costs has been performed for the sanitary sewer update. The initial cost based on the water design, based on the status of the current plan set is expected to be complete for 11/22/2005. The final cost estimates will be finalized once the permitting has been completed.

Task 4 Update Existing Utility Information

Task 4.1 Obtain Sunshine State One Call of Florida

PBS&J will contact Sunshine State One Call of Florida (SSOCOF) to obtain a design ticket for the project area and contact the utility companies identified by SSOCOF to obtain current information on existing utilities in the area.

Task 4.2 Update Utility Information on the Plans

PBS&J will update the existing utility information shown on the sanitary sewer plans based on the information provided by the utility companies.

Status:

100% Complete

A design ticket was obtained as well as utility information for the various utility companies in the area. The information required to be added to the plans has been identified, and the actual update of the plans has been preformed.

Task 5 Revisions to Sanitary Sewer Design

PBS&J will make revisions to the sanitary sewer system design as required based on the updated utility information, as well as changes to the existing sewer system existing landscaping that have occurred since the previous design effort.

Status:

95% Complete

The plans for zones 1, 2/3, and 4 have been updated with the recent survey and the sanitary sewer revisions are in progress and are currently approximately 95% complete. Outstanding items are the finalizations of the pump station designs with the revised pressure request from MDWASD. The request was made to MDWASD initially on 10/7/2005. Their first response was received on 11/10/05, however, PBS&J had to request that the model input be modified to account for the additional flows to the existing stations in Zones 1 and 4. It is anticipated that MDWASD will revise the response and forward it by 11/16/2005.

Task 6 Water Main Design

PBS&J will prepare plans and specifications (Contract Documents) for the project in accordance with the Village of Key Biscayne, Miami-Dade Water and Sewer Department (MDWASD) and Miami-Dade County Health Department requirements. It is anticipated that the plans will consist of 35 sheets consisting of a cover sheet, general notes sheet, legend and index sheet, 30 plan and profile sheets and two detail sheets.

Technical specifications for the water main work will be prepared and incorporated into the specifications previously prepared for the sanitary sewer project.

Status:

65% Complete

The drawing sets for water have been created for zones 1, 2/3, and 4, including required details. The drawings are expected to be finalized by 12/15/2005.

Task 7 Permitting Assistance

Task 7.1 Sewer System

Dry-run permitting for the sewer system will be required due to the time that has passed since the previous permitting effort. PBS&J will prepare the permit application for the Miami-Dade Department of Environmental Resources Management (DERM) and MDWASD on behalf of the Village, respond to Requests for Information and provide plans and dry-run permitting of the project. Any and all permit and/or permit application fees will be the responsibility of the Village.

Task 7.2 Water Mains

PBS&J will prepare the permit application for the Miami-Dade County Health Department permit and MDWASD on behalf of the Village, respond to Requests for Information and provide plans and dry-run permitting of the project. Any and all permit and/or permit application fees will be the responsibility of the Village.

Status:

15% Complete

Permit applications have been prepared. The submittal to WASD for the sewer plans and the water plans are anticipated to occur on 11/22/2005 and 12/16/2005, respectively. The Village must determine how the project will be funded in order to finalize the agreement with WASD, which is necessary in order to receive the permit. Costs will be submitted on 11/22/2005 to assist the Village with making the funding determination.

Task 8 Bid Phase Services

PBS&J will prepare bidding documents for the project, attend one pre-bid conference for the project, respond to pre-bid RFIs as required, prepare addenda as required, attend the bid opening, evaluate the bids and prepare a recommendation for award.

Status:

0% Complete

This task has not yet begun.

Original vs revised Key Biscayne Schedule

Task	Original			Revised			Reason for Delay/Comment	Schedule Slip	
	Duration (weeks)	Start Date	Completion Date	Duration (weeks)	Start Date	Completion Date			Actual Completion
Survey Update	4	3/3/2005	3/30/2005	22	3/3/2005	8/1/2005	8/5/2005	There were more changes to the topography than what was originally anticipated, as a result, more information needed to be collected and drafted. Weather related delays as well.	18
Update Existing Utility Information	6	3/3/2005	4/13/2005	9	8/1/2005	9/30/2005	10/5/2005	Survey was delayed and update of current drawings was more than anticipated. Revised surveys contain so much information that it requires extensive clean-up for legibility.	3
Revisions to Sanitary Sewer Design	6	4/4/2005	5/13/2005	15	8/5/2005	11/21/2005	On going	Pump station revisions will have to be verified when updated pressure information is obtained from WASD. This data is supposed to be received on 11/16/05. Revisions to the gravity system have been completed.	9
Water Main Design	16	4/4/2005	7/22/2005	19	8/5/2005	12/15/2005	On going		3
Permitting Assistance	16	5/16/2005	9/2/2005	9.5	11/22/2005	1/20/2006	Not yet begun		-7
Sewer System	8	5/16/2005	7/8/2005	7	11/22/2005	1/10/2006	Not yet begun	Assistance from the City may be required in expediting the permit. The Village has to determine how the project will be funded in order to finalize to the agreement with WASD.	-1
Water Mains	6	7/25/2005	9/2/2005	5	12/16/2005	1/20/2006	Not yet begun	Assistance from the City may be required in expediting the permit. The Village has to determine how the project will be funded in order to finalize to the agreement with WASD.	-1
Bid Phase Services	8	9/12/2005	11/4/2005	8	1/30/2006	3/27/2006	Not yet begun		0
Total	70			95					25