

EXTINGUISH THE TORCH – SESSION 3

**Turnpike Resurfacing and Roadside Improvements
Suncoast Parkway (MM 46- MM 55)
Financial Project Number: 427324-4-52-01, 427324-6-52-01 & 427324-6-52-10
Contract: E8M47**

SUMMARY REPORT

PROJECT DETAILS

Resurfacing, Roadway Improvements and Drainage Improvements, Milling and Resurfacing approximately 9.6 miles (FPID 427324-4-52-01), safety upgrades (FPID 427324-6-52-01) along the Suncoast Parkway (SR 589) from Cortez Blvd (S.R. 50) to north of the Oak Hammock Toll Plaza, and drainage improvements (FPDI 427324-6-52-10) from north of the Oak Hammock Toll Plaza to US 98. The safety upgrades include installation of high tension cable barrier in the medians, and drainage improvements including raising the elevation of the roadway and widening Pond 23b.

Contractor – D.A.B. Constructors, Inc.

CEI – AIM Engineering & Surveying, Inc.

Notice To Proceed – E8M47 – May 2, 2013

First Chargeable Contract Day – May 6, 2013

Original Contract amount - \$ 11,378,888.88

Original Completion Date – October 22, 2014

Percentage of Original Time – 115.7% *

Percentage of Time with Weather/Holidays – 101.1%

Department's Goal for Time is achieved **1.1% < 20.0%**

Original Contract Time – 535 Calendar Days

Work Order processed to extend flex time an additional 6 days for a total of 541 days.

Time for Weather/Holidays – Thirty-Six (36) Weather / Forty-Two (42) Holidays

Revised Completion Date – January 14, 2015

Actual Completion Date – January 14, 2015

Final Contract Amount – \$11,658,834.63

Percentage of Original Money – 102.5% *

Department's Goal for Money is achieved **2.5% < 10.0%**

*- See Attached Presentation for Time vs. Money Charts

Spreadsheet of Overruns and Underruns in Excess of 10% provided as separate document.

LESSONS LEARNED

1. Galvanized Guardrail-

On previous Suncoast projects the Natina finish experienced problems with the coloring and fading. The Natina stained guardrail was removed from the contract and galvanized guardrail was installed, which resulted in a savings in the cost.

Lesson Learned: If the staining is desired, the less expensive option is for the contractor to install galvanized guardrail and at a later date apply the Natina stain. This also provides a more uniform looking product.

2. High Tension Cable Barrier Claim-

The contractor did not perform due diligence when bidding the 540 developmental specification (DS540) causing a delay in the Shop Drawing process which delayed the start date for the work. The Contractor should review contract specifications for new changes in parameters accordingly. The end foundations were able to incorporate the newest DS540 into the contract, which changed the concrete from 25 CY to 8 CY or less.

Lesson Learned: Discuss developmental specs during pre-bid meetings with contractors. Remind contractor of the revised specifications during the pre-construction meeting.

3. Striping-

The EOR provided detailed alignment details, curve data and survey monumentation information for the striping near the Oak Hammock Toll Plaza on specific Plaza Transition Detail plan sheets. The striping plans directed the contractor to refer to this information. The information was incorporated into the striping layout. The contractor indicated that multiple baselines provided further complicated the information.

Lesson Learned: Provide clear details where striping is not typical. CEI to conduct a pre-operations meeting to review specific striping layout details with the contractor to eliminate striping mistakes on the friction course.

4. Maintenance of Traffic-

The distance between exits created significant detour routes during ramp closures. Due to weather and other unforeseen issues, ramp closures were extended to multiple nights or were cancelled and rescheduled at the last minute. This information was not always conveyed timely to FTE or the travelling public. The pedestrian trail access provided challenges during construction.

Lesson Learned/Session 2 Comments: On projects where the detour required is significant, review the design for alternatives to closing the ramp, when possible (ie, provide temporary pavement, etc.) Provide better details for barriers to be installed when closing the pedestrian trail (orange fencing was cut by the users). Provide specific plan notes to detail trail closure durations and limitations of construction operations (i.e., when possible, the trail should be opened for traffic on the weekends). Restrict the use of project staging areas so that construction equipment does not continuously cross the pedestrian trail.

5. Additional Comments from Session 2-

- In general, a restriction on the overall duration for completion of the drainage improvement project should have been provided in the contract.
- Enforce the mowing specification – not mowing on a regular cycle promotes poor quality turf.
- High tension cable barrier - Brifen cable turnbuckles did not provide an inspection hole for maintenance as required by their shop drawing. Brifen revised the shop drawing to fit the product provided in the field; however, the maintenance documentation was not revised and the cable barrier cannot be used by maintenance as intended – they cannot use the turnbuckles to release tension by the method described by Brifen in their manual provided.
- Erosion/maintenance concern – two new double 48-inch cross drains were added adjacent to two existing 48-inch pipes. There was minimal separation between the old and new construction. A precast headwall was allowed for the new construction and there was no provision in the contract to connect the two structures. The small area of earth will not be able to be maintained. Provide details in the plans to address this gap (maintenance does not like sand cement rip rap for this application).
- The tie-in point between the resurfacing project and drainage improvement project did not provide for a smooth transition between the two projects. Additional survey and details should be provided by the designer to ensure that the contractor has enough information to provide a smooth transverse joint between existing and new construction.

E8M47 Warranties

FIN	Description	Specification
427324-4-52-01	Three Year Asphalt Warranty	Standard Specification 338
427324-4-52-01	Performance Turf Establishment	Standard Specification 570
427324-4-52-01	Preformed Tape 180 Day Observation Period	Standard Specification 713
427324-6-52-01	Three Year Asphalt Warranty	Standard Specification 338
427324-6-52-01	Performance Turf Establishment	Standard Specification 570
427324-6-52-10	Three Year Asphalt Warranty	Standard Specification 338
427324-6-52-10	Performance Turf Establishment	Standard Specification 570
427324-6-52-10	ITS Two Year Manufacturer's Warranty	Standard Specification 783