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## PRELIMINARY ENGINEERING REPORT

Florida Department of Transportation
Florida's Turnpike Enterprise

Widen Suncoast Parkway (SR 589) Project Development and Environment (PD&E) Study

From South of Van Dyke Road to SR 52

Hillsborough and Pasco Counties, Florida

Financial Management Number: 448068-1 ETDM Number: 14503

February 2025

# PROFESSIONAL ENGINEER CERTIFICATION PRELIMINARY ENGINEERING REPORT

**Project:** Widen Suncoast Parkway (SR 589) Project Development and Environment (PD&E)

Study from South of Van Dyke Road to SR 52

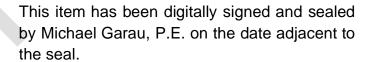
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**Financial Project ID:** 448068-1-22-01

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This preliminary engineering report contains engineering information that fulfills the purpose and need for the Suncoast Parkway Widening Project Development & Environment Study from south of Van Dyke Road to SR 52 in Hillsborough and Pasco Counties, Florida. I acknowledge that the procedures and references used to develop the results contained in this report are standard to the professional practice of transportation engineering as applied through professional judgment and experience.

I hereby certify that I am a registered professional engineer in the State of Florida practicing with Kimley-Horn and Associates, Inc., and that I have prepared or approved the evaluation, findings, opinions, conclusions, or technical advice for this project.



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## 1.0 PROJECT SUMMARY

## 1.1 Project Description

Florida's Turnpike Enterprise (Enterprise), part of the Florida Department of Transportation (FDOT), is conducting a Project Development and Environment (PD&E) Study to evaluate the widening of the Suncoast Parkway (State Road [SR] 589) from south of Van Dyke Road to SR 52 (milepost [MP] 13 to 29), a distance of approximately 16 miles. As part of the study, all existing interchanges within the project limits and the need for a new interchange at Rangeland Boulevard are being evaluated. Existing interchanges include Van Dyke Road, Lutz Lake Fern Road, SR 54, Ridge Road, and SR 52. The project is located in Hillsborough and Pasco counties, Florida. The project location map, **Figure 1-1**, shows the study area for the project.

The Suncoast Parkway is currently a four lane (two lanes in each direction), tolled, limited access facility within the study limits. The proposed project includes widening to eight lanes from south of Van Dyke Road to north of SR 54 and widening to six lanes from north of SR 54 to SR 52. Within the study limits, the roadway is functionally classified as an Urban Principal Arterial - Freeway and Expressway and has a posted speed limit of 60 miles per hour (mph) from approximately MP 13 to MP 17 and 70 mph from MP 17 to MP 29. In addition, the Suncoast Trail, part of the greater Florida Shared-Use Non-motorized (SUN) Trail network, runs along the west side of the Suncoast Parkway from Lutz Lake Fern Road to the north beyond the project limits at SR 52.

The Suncoast Parkway provides regional connectivity between Hillsborough, Pasco, Hernando, and Citrus counties. Within the project area, the Suncoast Parkway is a designated hurricane evacuation route and part of Florida's Strategic Intermodal System (SIS). Facilities on the SIS are subject to special standards and criteria for design speed, level of service, and other requirements.

Early planning efforts conducted by the Enterprise concluded that capacity improvements are needed along the Suncoast Parkway and at the interchanges to improve current and future peak period traffic operations and reduce the potential for traffic incidents.

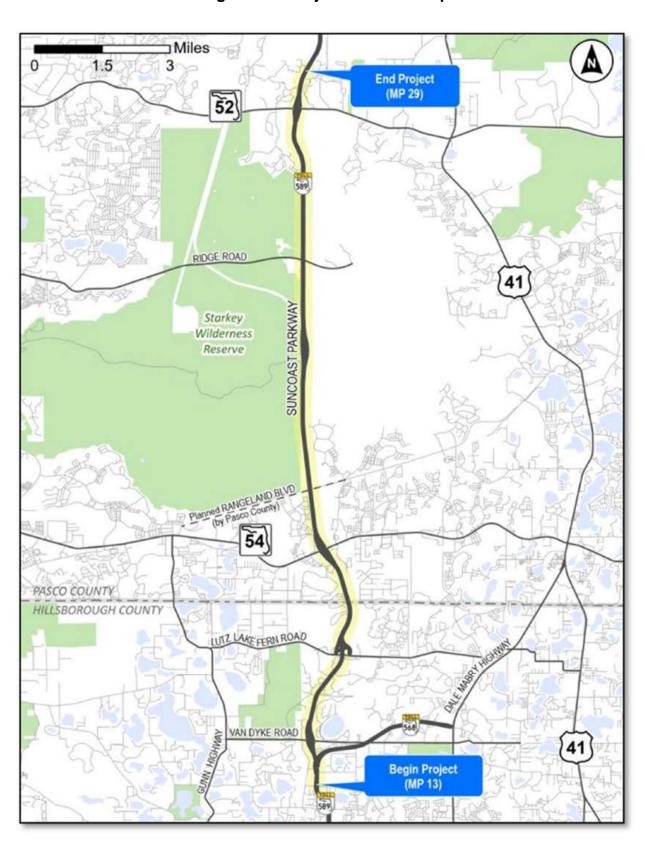


Figure 1-1: Project Location Map

## 1.2 Purpose & Need

The purpose of this project is to provide additional capacity on the Suncoast Parkway from south of Van Dyke Road to SR 52 to accommodate existing capacity and future traffic demand for vehicular and truck traffic. Goals of the project include enhancing safety and improving emergency evacuation capabilities.

The need for this project is to improve current and future peak period traffic operations and safety at the interchanges and throughout the corridor. The merge/diverge area of SR 54 and SR 52 interchanges currently has the highest number of vehicular crashes resulting from high congestion in the area. The proposed improvements will enhance travel time reliability, safety, and emergency response and evacuation times.

## **Project Status**

The SIS Adopted 5-Year Plan from Fiscal Year (FY) 2021/2022 through FY 2025/2026 lists the project as funded for the PD&E phase. The project is also within two transportation planning regions: Hillsborough Transportation Planning Organization (TPO) and Pasco County Metropolitan Planning Organization (MPO). The Hillsborough TPO Transportation Improvement Program (TIP) Fiscal Year 2024/25 – 2028/29 includes funding to widen Suncoast Parkway for Preliminary Engineering and Construction. The Pasco County MPO lists the project as funded in the PD&E phase in the Cost Feasible Plan, which is known as the Mobility 2045 Long Range Transportation Plan (LRTP). The project is not currently listed in the FY 2021/2022 through 2024/2025 State Transportation Improvement Program (STIP). Additional coordination will take place to ensure planning document consistency between relevant documents.

## Capacity

This project is needed to relieve current and projected future traffic congestion. The existing Annual Average Daily Traffic (AADT) ranges from 56,800 south of SR 54 to 41,000 north of SR 54. The segment from south of Van Dyke Road to SR 54 is currently operating at or near the level of service (LOS) D capacity limit. By 2050, the AADT is expected to increase to 97,200 south of SR 54 and 75,400 north of SR 54. Based on traffic forecasts and the adopted LOS target (LOS D or better), six lanes are needed today from south of Van Dyke Road to north of SR 54 and eight lanes would be needed by 2040. From north of SR 54 to Ridge Road, six lanes would be needed by 2030. From Ridge Road to SR 52, six lanes would be needed by 2035.

#### **Transportation Demand**

By 2050, the population within Hillsborough and Pasco counties is expected to grow by 27%. During the same time period, travel demands on the Suncoast Parkway will increase by 70%. This is indicative of faster growth within the study area when compared to county-wide averages. Notable developments include the Moffitt Cancer Center and the Angeline residential community. The Moffitt Cancer Center is a 775-acre medical campus off Ridge Road that will include 140 buildings and employs 14,000 people. Angeline is adjacent to the Moffitt Cancer Center and consists of a 6,200-acre mixed-use master-planned community that will include 7,500 single family homes.

Travel demand forecasts show that traffic on the Suncoast Parkway is expected to increase an average of 4% per year from 2023 to 2030 and 1.5% per year from 2030 to 2050. The segment from south of Van Dyke Road to SR 54 is currently operating at or near the LOS D limit. If nothing is done, congestion will continue to increase and the segments north of SR 54 will begin to exceed LOS standards by 2030. Proposed improvements would be designed to meet the established LOS D target to the greatest extent practicable in Design Year 2050.

#### Safety

The proposed improvements are needed to enhance safety. Between 2018 and 2022, there were 1,562 crashes within the study limits with a high concentration of crashes at the merge/diverge areas of the interchanges. A total of 653 crashes were reported along the Suncoast Parkway mainline, and the remaining 909 crashes occurred at the various existing interchanges with a higher concentration at the SR 54 and SR 52 interchanges. Eight fatal crashes were reported in the study area. Congestion is a major contributing factor. In the No-Build condition, congestion would likely continue to rise leading to an increase in crashes.

#### 1.3 Commitments

This section will be updated following the Public Hearing.

## 1.4 Alternatives Analysis Summary

One Build Alternative was evaluated in addition to the No-Build Alternative. Below is a summary of the alternatives considered by segment and interchange:

- Mainline South of Van Dyke Road to North of SR 54
  - o Eight lane typical section (four lanes each direction) with median barrier wall
- Mainline North of SR 54 to SR 52
  - o Six lane typical section (three lanes each direction) with open median
- Van Dyke Road Interchange
  - Modifications to existing diamond interchange
- Lutz Lake Fern Road Interchange
  - Modification to existing partial cloverleaf interchange
- SR 54 Interchange
  - Alternative 1 Modification to existing tight diamond interchange
  - Alternative 2 Reconstruct as a diverging diamond interchange
- Rangeland Boulevard Interchange
  - Construct new partial cloverleaf interchange with loop ramps on the north side
- Ridge Road Interchange
  - Modification to the existing diamond interchange
- SR 52 Interchange
  - Modification to the existing tight diamond interchange

## 1.5 Description of Preferred Alternative

Below is a summary of the proposed elements for the Preferred Alternative for the Suncoast Parkway and interchanges.

- Segment 1 (from south of Van Dyke Road to north of SR 54) involves widening to the
  inside and outside to add two 12-foot-wide travel lanes in each direction for a total of
  eight travel lanes. The proposed travel lanes will be separated by a 26-foot-wide
  median with a barrier wall.
- Segment 2 (from north of SR 54 to SR 52) involves widening to the inside to provide three 12-foot-wide travel lanes in each direction for a total of six travel lanes. The proposed travel lanes will be separated by a 40-foot-wide median.
- Van Dyke Road Interchange (MP 14) includes adding an additional left turn lane to the northbound and southbound off ramps and adding a turn lane along Van Dyke Road in the westbound direction to Ramblewood Road. In addition, a shared-use path on the north side is proposed.
- Lutz Lake Fern Road Interchange (MP 16) involves minor modifications that include adding additional turn lanes and extending turn lanes at the intersections. In addition, a shared-use path on both sides of Lutz Lake Fern Road is proposed as part of the interchange modifications.
- SR 54 Interchange (MP 19) includes modifications to the existing tight diamond interchange. This includes adding an additional right turn lane to the northbound off ramp, an additional right and left turn lane to the southbound off ramp, and an additional left turn lane from westbound SR 54 to the southbound on ramp. Along SR 54 itself, an additional through lane would be added in the westbound direction beginning at the southbound off ramp, continuing past Crossings Boulevard, and up to South Branch Boulevard. Improvements would also include a shared-use path on both sides within the interchange area.
- Rangeland Boulevard Interchange (MP 20) proposes a new full access interchange with loop ramps on the north side of Rangeland Boulevard.
- Ridge Road Interchange (MP 25) includes adding left and right turn lanes to the northbound off ramp, realigning the right turn lane from the southbound off ramp to improve the safety of the trail crossing, and adding a left turn lane from eastbound Ridge Road to the northbound on ramp.
- SR 52 Interchange (MP 27) involves adding a left and right turn lane to the northbound off ramp and adding a second right turn lane from eastbound SR 52 to the southbound on ramp.

#### 1.6 List of Technical Documents

Below is list of all technical documents prepared as part of this PD&E Study.

- Air Quality Technical Memorandum
- Alternatives Analysis Memorandum
- Bridge Hydraulic Report
- Bridge Analysis Report
- Comments and Coordination Report
- Conceptual of Operations
- Cultural Resources Assessment Survey

- Geotechnical Report
- Level I Contamination Assessment Report
- Location Hydraulics Report
- Natural Resources Evaluation
- Noise Study Report
- Pond Siting Memo
- Public Involvement Plan
- Preliminary Engineering Report
- Project Traffic Forecast Memorandum
- Resiliency Evaluation Technical Memorandum
- Signing Conceptual Roll Plot
- Sociocultural Effects Evaluation
- State Environmental Impact Report (SEIR)
- Typical Section Package
- Utilities Assessment Package
- Water Quality Impact Evaluation



## 2.0 EXISTING CONDITIONS

Suncoast Parkway, between south of Van Dyke Road and SR 52 covers approximately 16 miles. Five existing interchanges are located within the study limits: Van Dyke Road, Lutz Lake Fern Road, SR 54, Ridge Road, and SR 52. The existing conditions for this segment of the Suncoast Parkway and the interchanges referenced above are described in this section of the report.

## 2.1 Previous Planning Studies

In July 2019, the Enterprise completed the Pasco County Interchange Planning Study that evaluated existing interchanges and examined the need to construct new interchanges. The purpose of this planning study was to evaluate the conceptual feasibility and 2045 traffic demand of potential new interchanges at Rangeland Boulevard (referenced as Tower Road in the study), Shady Hills Road, and Caldwell Lane. Both Shady Hills Road and Caldwell Lane are outside of the PD&E study limits. In addition to the feasibility of these new interchanges, various improvements at SR 54 were also analyzed. The interchange alternative options examined many factors such as improving safety, accommodating the 2045 traffic demands, and improving operations.

The Interchange Planning Study concluded that a new interchange at Rangeland Boulevard would provide a significant transportation benefit to the county by relieving traffic along SR 54 and providing access to residential and commercial areas in the Bexley Ranch area and other future developments. The Interchange Planning Study recommended that a partial cloverleaf concept be considered for a new interchange at Rangeland Boulevard as it would provide acceptable mainline operations.

## 2.2 Existing Roadway Conditions

#### 2.2.1 Roadway Typical Sections

The following paragraphs discuss the existing typical sections of the major roadways located in the study area.

## Suncoast Parkway

The existing typical section for the Suncoast Parkway from south of Van Dyke Road to SR 52 is a four-lane divided limited access facility located within approximately 300 to 400 feet of right-of-way. This typical section includes a varying 50-foot to 64-foot median, 8-foot inside shoulders, two 12-foot travel lanes in both directions, and 12-foot outside shoulders. Beginning at Lutz Lake Fern Road, the Suncoast Trail, which is part of the greater SUN Trail network, is located along the west side of the Suncoast Parkway and provides a 12-foot-wide path for both bicyclists and pedestrians. The existing typical section is shown in **Figure 2-1**.

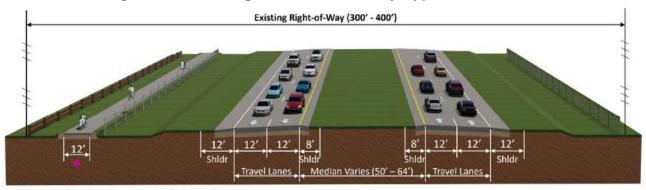


Figure 2-1: Existing Suncoast Parkway Typical Section

\* Suncoast Trail begins at Lutz Lake Fern Rd

#### Van Dyke Road Interchange

The existing Van Dyke Road interchange is a tight diamond styled interchange with four direct connected ramps. The ramps provide connection to both north and southbound Suncoast Parkway. A toll gantry is located on the northbound on-ramp and the southbound off-ramp. Van Dyke Road within the study area is a two-lane undivided urban minor arterial roadway that traverses under the Suncoast Parkway. The existing typical section consists of two 12-foot travel lanes with shoulders. Hillsborough County is currently conducting a separate PD&E Study to widen Van Dyke Road from two-lanes to four-lanes.

**Table 2-1** summarizes the interchange ramp movements.

Table 2-1: Summary of Existing Van Dyke Road Interchange Ramps

Ramp Movement	Ramp Direction
Northbound Suncoast Parkway to Van Dyke Road	One-lane ramp. Lane width is approximately 15' wide with 10'-12' paved outside shoulder, and a 4' paved inside shoulder.
Van Dyke Road to northbound Suncoast Parkway	One-lane ramp. Lane varies from 14' – 15' with a 10' paved outside shoulder, and a 4' paved inside shoulder.
Southbound Suncoast Parkway to Van Dyke Road	One-lane ramp. Lane width is approximately 14' wide with 10' paved outside shoulder, and a 4' paved inside shoulder.
Van Dyke Road to southbound Suncoast Parkway	One-lane ramp. Lane varies from 15' – 16' with a varying 10' paved outside shoulder, and a varying 4' paved inside shoulder.

The existing interchange ramps are shown on the following page in Figure 2-2.



Figure 2-2: Existing Van Dyke Road Interchange

#### Lutz Lake Fern Road

The existing Lutz Lake Fern Road interchange is a partial clover leaf/tight diamond styled interchange with four direct connected ramps. The ramps provide connection to both north and southbound Suncoast Parkway. Lutz Lake Fern Road within the study area is a four-lane (two lanes in each direction) divided urban major collector that traverses under the Suncoast Parkway. The existing typical section for both eastbound and westbound directions consist of four 12-foot travel lanes with a grassed median and an outside shoulder. **Table 2-2** summarizes the interchange ramp movements for this interchange.

Table 2-2: Summary of Existing Lutz Lake Fern Road Interchange Ramps

Ramp Movement	Ramp Direction
Northbound Suncoast Parkway to Lutz Lake Road	One-lane ramp. Travel lane width is approximately 15' wide with 6' paved outside shoulder, and a 6' paved inside shoulder.
Lutz Lake Fern Road to northbound Suncoast Parkway	One-lane ramp. Travel lane width is approximately 15' with a varying 6' paved outside shoulder, and a 4' paved inside shoulder.
Southbound Suncoast Parkway to Lutz Lake Road	One-lane ramp. Travel lane width is approximately 15' wide with 4' paved outside shoulder, and a 6' paved inside shoulder.
Lutz Lake Fern Road to southbound Suncoast Parkway	One-lane ramp. Travel lane width is approximately with a varying 6' to 8' paved outside shoulder, and a 4' paved inside shoulder.

The existing interchange ramps are shown on the following page in Figure 2-3.





Figure 2-3: Existing Lutz Lake Fern Road Interchange

#### **SR 54**

The existing SR 54 interchange is a tight diamond styled interchange with four direct connected ramps. The ramps provide connection to both north and southbound Suncoast Parkway. A toll gantry is located on the northbound off-ramp and the southbound on-ramp. SR 54 within the study area is a six-lane (three lanes in each direction) divided urban principal arterial that traverses under the Suncoast Parkway. The existing typical section for both eastbound and westbound directions consist of four 12-foot travel lanes, 6-foot-wide bike lane, a grassed median and an outside shoulder. **Table 2-3** summarizes the interchange ramp movements for this interchange.

**Table 2-3: Summary of Existing SR 54 Interchange Ramps** 

Ramp Movement	Ramp Direction
Northbound Suncoast Parkway to SR 54	One-lane ramp. Travel lane width is approximately 24' wide with 12' paved outside shoulder, and a 4' paved inside shoulder.
SR 54 to northbound Suncoast Parkway	One-lane ramp. Lane is approximately 15' with an approximate 4' paved outside shoulder, and a 4' paved inside shoulder.
Southbound Suncoast Parkway to SR 54	One-lane ramp. Lane width is approximately 15' wide with 4' paved outside shoulder, and a 2' paved inside shoulder.
SR 54 to southbound Suncoast Parkway	One-lane ramp. Lane varies from 24' with a 6' paved outside shoulder, and a 4' paved inside shoulder.

The existing interchange ramps are shown on the following page in Figure 2-4.





Figure 2-4: Existing SR 54 Interchange

#### Ridge Road

The existing Ridge Road interchange is a tight diamond styled interchange with four direct connected ramps. The ramps provide connection to both north and southbound Suncoast Parkway. Ridge Road within the study area is a four-lane (three lanes in each direction) divided urban principal arterial that traverses under the Suncoast Parkway. The existing typical section for both eastbound and westbound directions consist of four 12-foot travel lanes, a grassed median and an outside shoulder. **Table 2-4** summarizes the interchange ramp movements for this interchange.

**Table 2-4: Summary of Existing Ridge Road Interchange Ramps** 

Ramp Movement	Ramp Direction
Northbound Suncoast Parkway to Ridge Road	One-lane ramp. Travel lane width varies from approximately 13'-15' wide with 12' paved outside shoulder, and a 4' paved inside shoulder.
Ridge Road to northbound Suncoast Parkway	One-lane ramp. Travel lane width is approximately 15' with a 4' paved outside shoulder, and a 2' paved inside shoulder.
Southbound Suncoast Parkway to Ridge Road	One-lane ramp. Travel lane width is approximately 15' wide with 4' paved outside shoulder, and a 2' paved inside shoulder.
Ridge Road to southbound Suncoast Parkway	One-lane ramp. Travel lane width is approximately 15' with a 4' paved outside shoulder, and a 4' paved inside shoulder.

The existing interchange ramps are shown on the following page in Figure 2-5.





Figure 2-5: Existing Ridge Road Interchange

#### SR 52

The existing SR 52 interchange is a tight diamond styled interchange with four direct connected ramps. The ramps provide connection to both north and southbound Suncoast Parkway. A toll gantry is located on the northbound on-ramp and the southbound off-ramp. SR 52 within the study area is a four-lane (two lanes in each direction) divided urban minor arterial that traverses under the Suncoast Parkway. The existing typical section for both eastbound and westbound directions consist of four 12-foot travel lanes, a grassed median and an outside shoulder. **Table 2-5** summarizes the interchange ramp movements for this interchange.

**Table 2-5: Summary of Existing SR 52 Interchange Ramps** 

Ramp Movement	Ramp Direction
Northbound Suncoast Parkway to SR 52	One-lane ramp. Travel lane width is approximately 24' wide with 10' paved outside shoulder, and a 4' paved inside shoulder.
SR 52 to northbound Suncoast Parkway	One-lane ramp. Travel lane width varies approximately from 15' – 24' with a 4' paved outside shoulder, and a 2' paved inside shoulder.
Southbound Suncoast Parkway to SR 52	One-lane ramp. Travel lane width is approximately 15' wide with 4' paved outside shoulder, and a 2' paved inside shoulder.
SR 52 to southbound Suncoast Parkway	One-lane ramp. Travel lane width varies approximately from 24' – 25' with a varying 8' – 10' paved outside shoulder, and a varying 3' - 4' paved inside shoulder.

The existing interchange ramps are shown on the following page in Figure 2-6.





Figure 2-6: Existing SR 52 Interchange

#### 2.2.2 Roadway Functional & Context Classifications

FDOT's context classification system describes the general characteristics of the land use, development patterns, and roadway connectivity, providing cues as to the types of uses and user groups that will likely utilize the roadway. FDOT will apply criteria and standards based on the context classification. In the case of interstates and limited-access facilities, no context classification is assigned.

The FDOT assigns each roadway on the State Highway System (SHS) a functional classification based on the character of service it provides in relation to the total roadway network. Suncoast Parkway is classified as an Urban Principal Arterial Expressway within the project limits and is

also part of the state's SIS. **Table 2-6** highlights the roadway functional classifications for roads that have an interchange with Suncoast Parkway within the project limits.

**Table 2-6: Cross-Street Functional Classification** 

Roadway	Functional Classification
Van Dyke Road	Urban Minor Arterial
Lutz Lake Fern Road	Urban Major Collector
SR 54	Urban Principal Arterial
Ridge Road	Urban Minor Arterial
SR 52	Urban Principal Arterial Other

#### 2.2.3 Access Management Classification

Suncoast Parkway is a limited access facility and is therefore categorized as Access Management Class 1 which dictates the interchange spacing criteria. The access management classifications for the study area roadways are identified in **Table 2-7**.

**Table 2-7: Roadway Access Management Classification** 

Roadway	Access Management Classification
Suncoast Parkway	1
Van Dyke Road	6
Lutz Lake Fern Road	7
SR 54	4
Ridge Road	N/A
SR 52	3

#### 2.2.4 Right-of-Way

The existing available right-of-way throughout the project corridor is generally 300 feet from south of Van Dyke Road to Lutz Lake Fern Road and 400 feet north of Lutz Lake Fern Road. **Figure 2-7** on the following pages highlight the right-of-way dimensions throughout the study corridor.

LAKE CARLTON 250'-300' OF RIGHT OF WAY (R/W) 250'-350' OF RIGHT OF WAY (R/W)
300'-2500' OF RIGHT OF WAY
EXISTING LIMITED ACCESS R/W LINE
EXISTING R/W LINE EXISTING RIGHT-OF-WAY (SHEET 1 OF 6)

Figure 2-7: Right-of-Way Dimensions

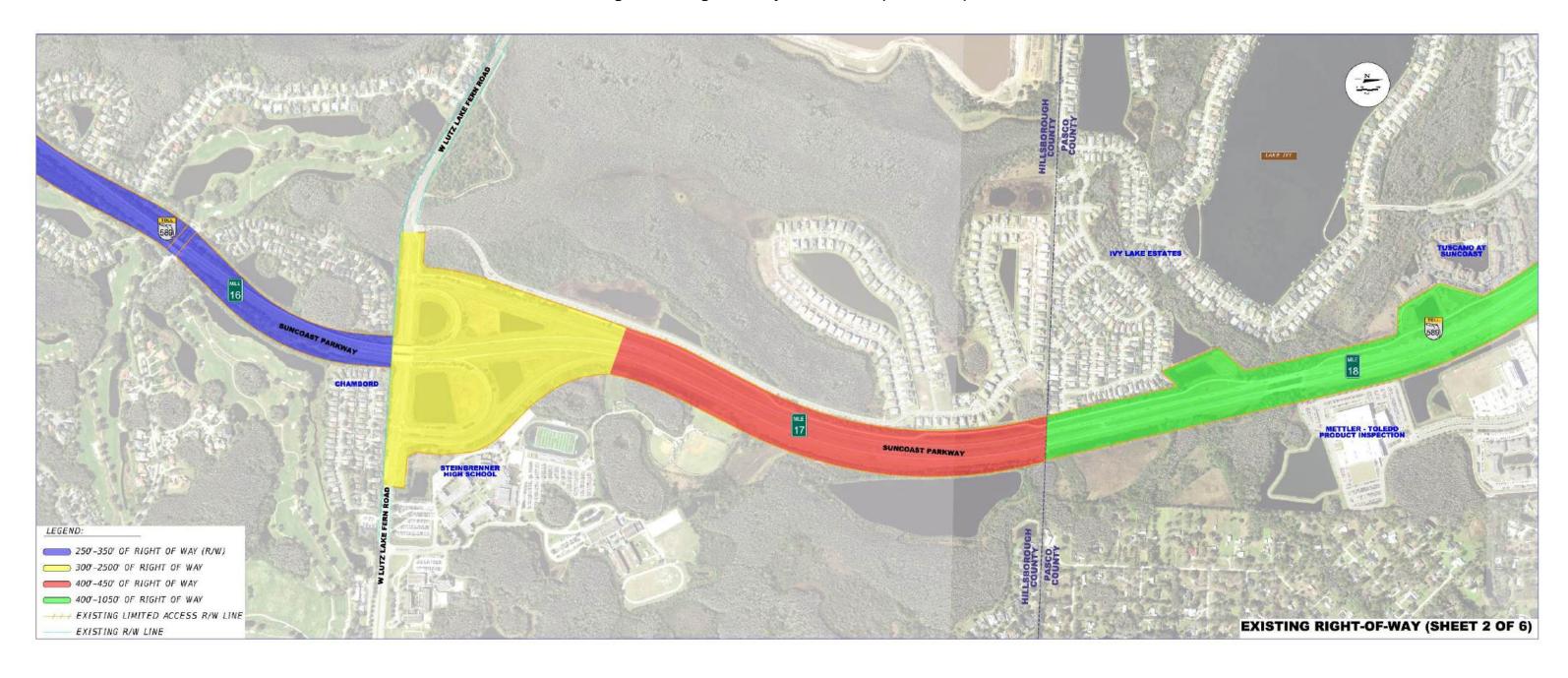


Figure 2-7: Right-of-Way Dimensions (Continued)

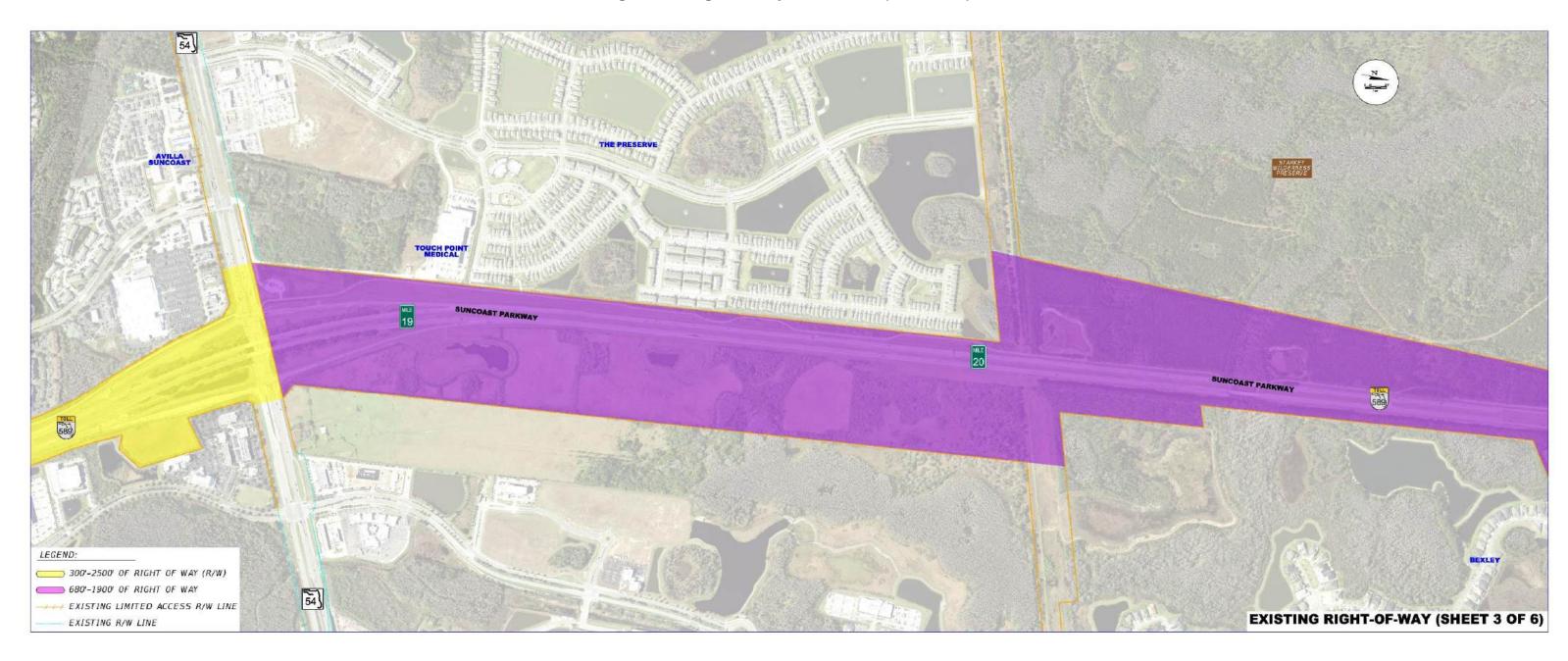


Figure 2-7: Right-of-Way Dimensions (Continued)



Figure 2-7: Right-of-Way Dimensions (Continued)

SUNCOAST PARKWAY LEGEND: \_\_\_\_\_ 300'-2500' OF RIGHT OF WAY (R/W) 400'-1050' OF RIGHT OF WAY EXISTING RIGHT-OF-WAY (SHEET 5 OF 6) EXISTING LIMITED ACCESS R/W LINE

Figure 2-7: Right-of-Way Dimensions (Continued)

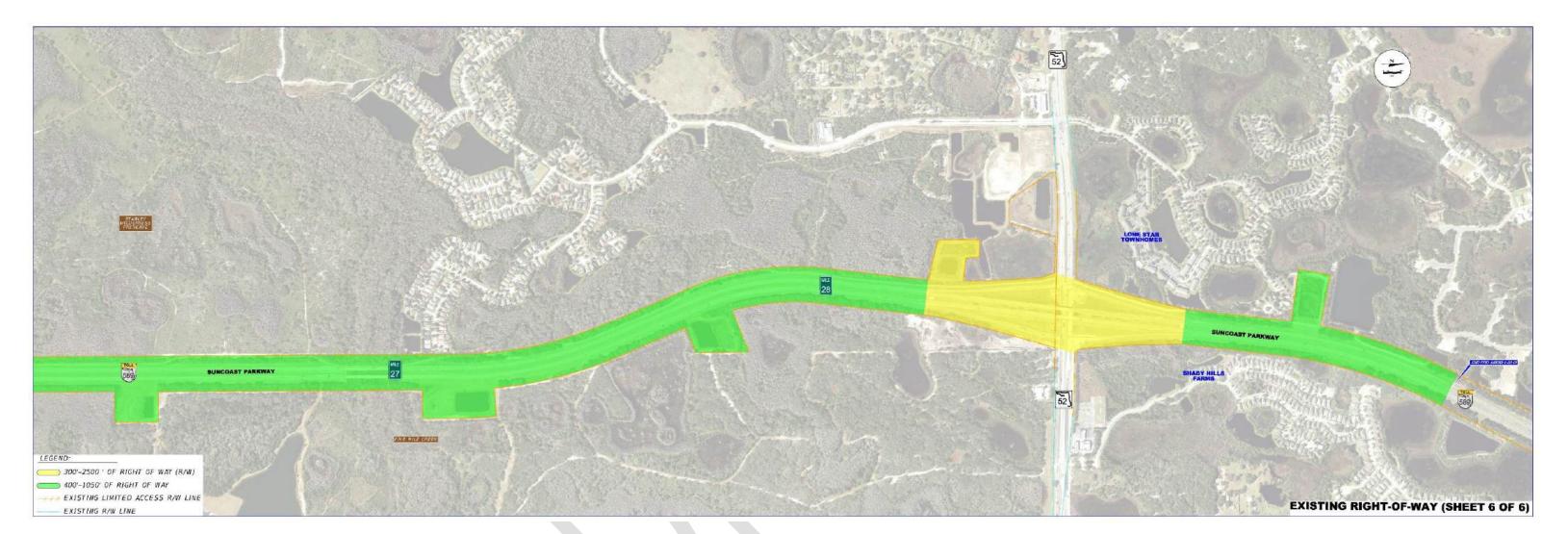


Figure 2-7: Right-of-Way Dimensions (Continued)

## 2.2.5 Adjacent Land Use

The study area spans through parts of Hillsborough and Pasco counties. **Figure 2-8** highlights the existing land use within the project's study area. The existing land use is primarily residential (22.75%), recreation (27.25%) followed by agricultural (18.15%). The next most common land use types are public/semi-public (14.6%), vacant non-residential (3.13%). Industrial, acreage not zoned for agriculture, institutional, retail/office and other collectively comprise 7.61% of the land use in the study area, while right-of-way, water and parcels with no value collectively, vacant residential comprise of a 3.31% or less of the study area.



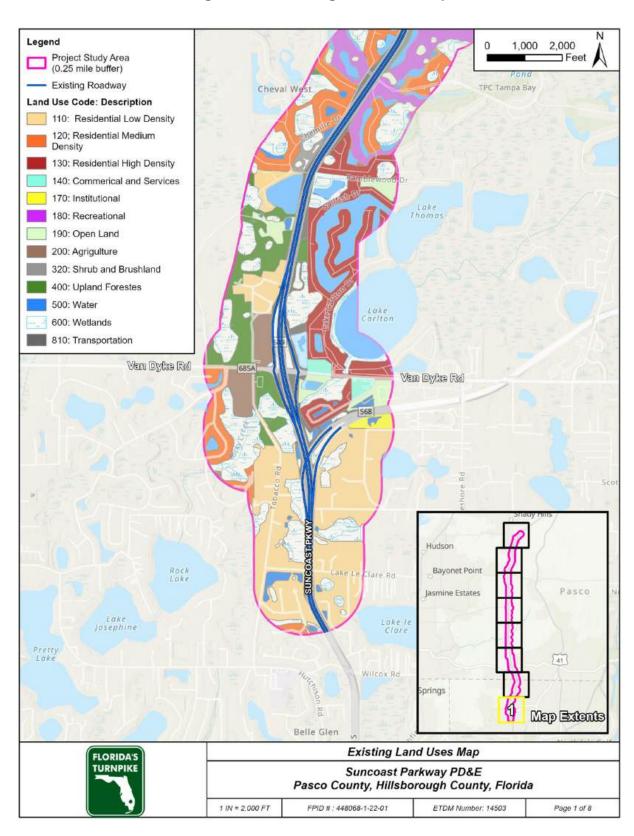


Figure 2-8: Existing Land Use Map

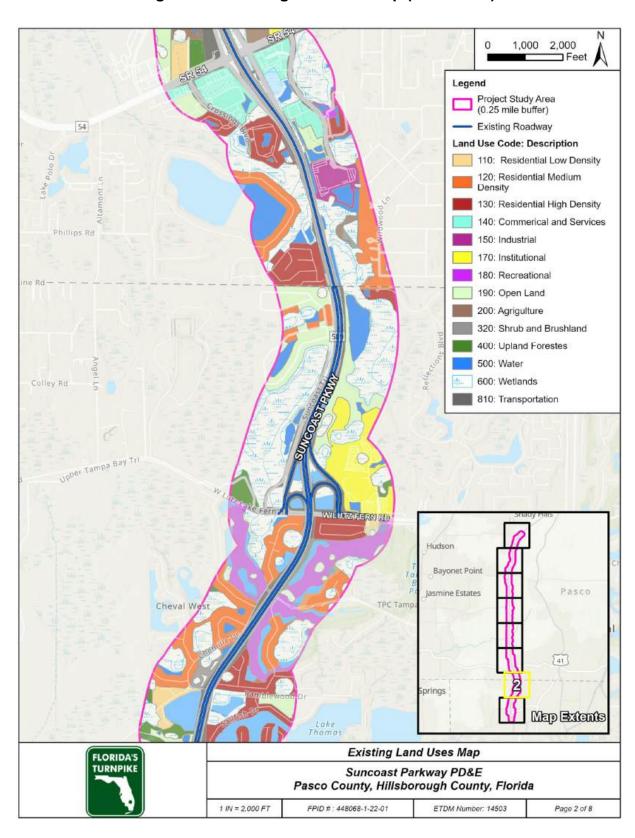


Figure 2-8: Existing Land Use Map (Continued)

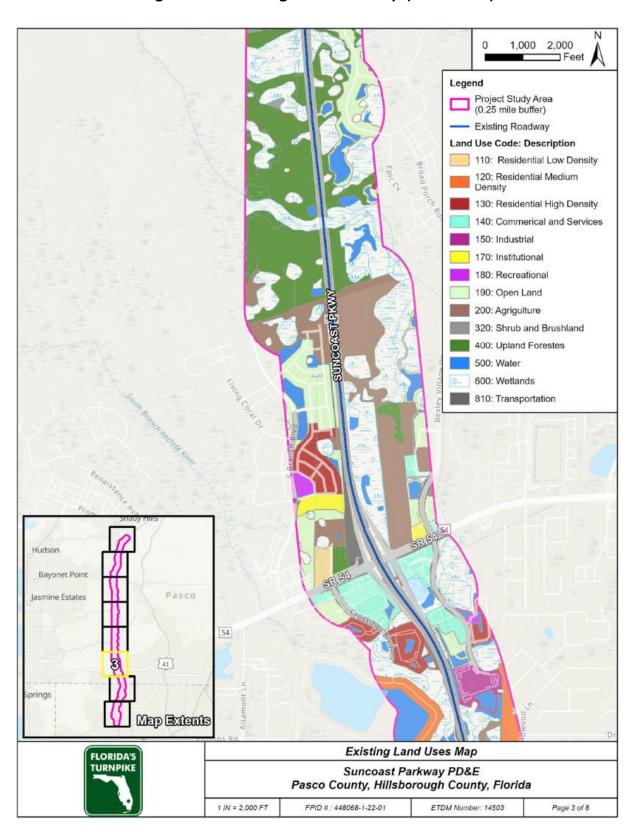


Figure 2-8: Existing Land Use Map (Continued)

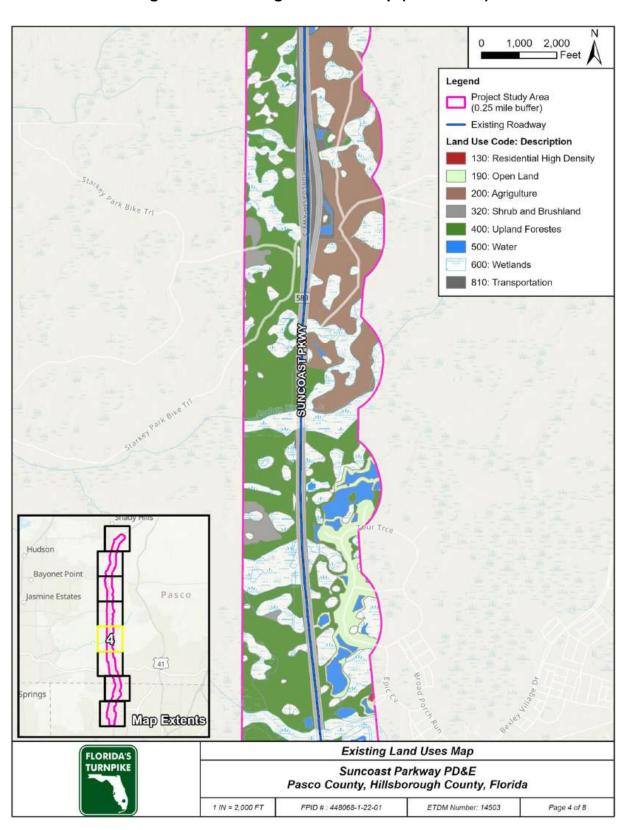


Figure 2-8: Existing Land Use Map (Continued)

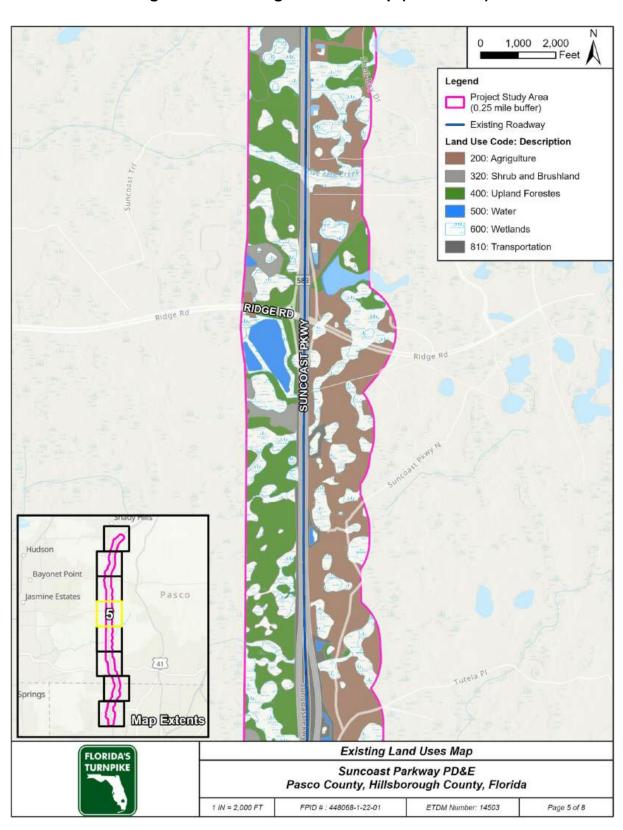


Figure 2-8: Existing Land Use Map (Continued)

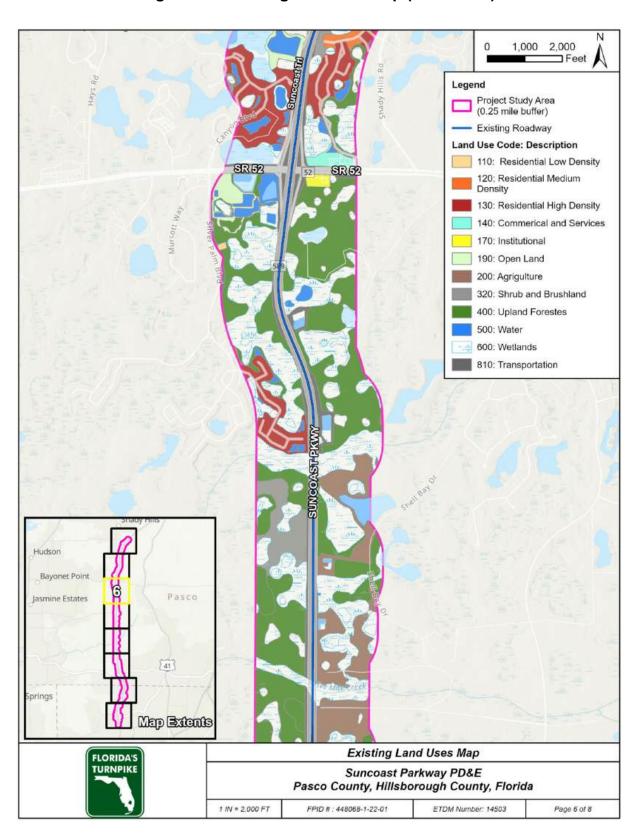


Figure 2-8: Existing Land Use Map (Continued)

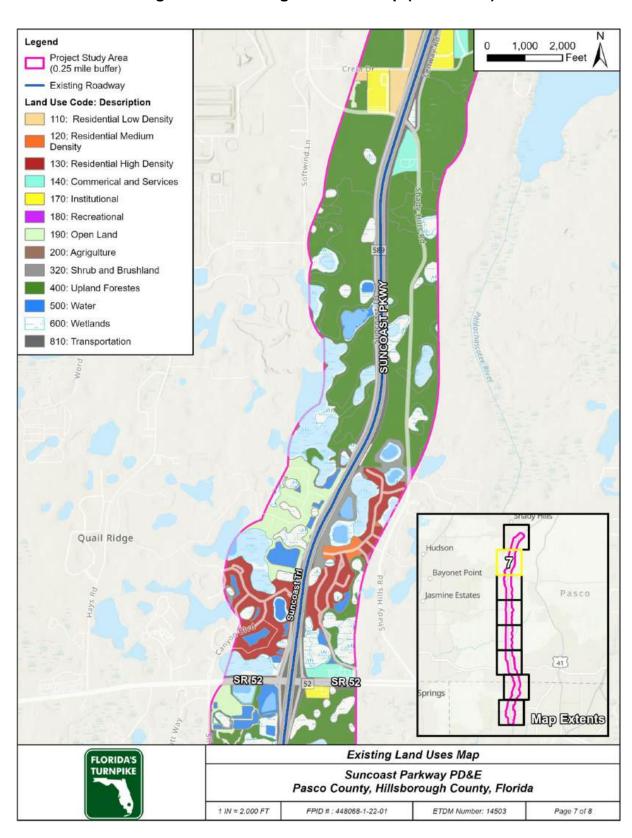


Figure 2-8: Existing Land Use Map (Continued)

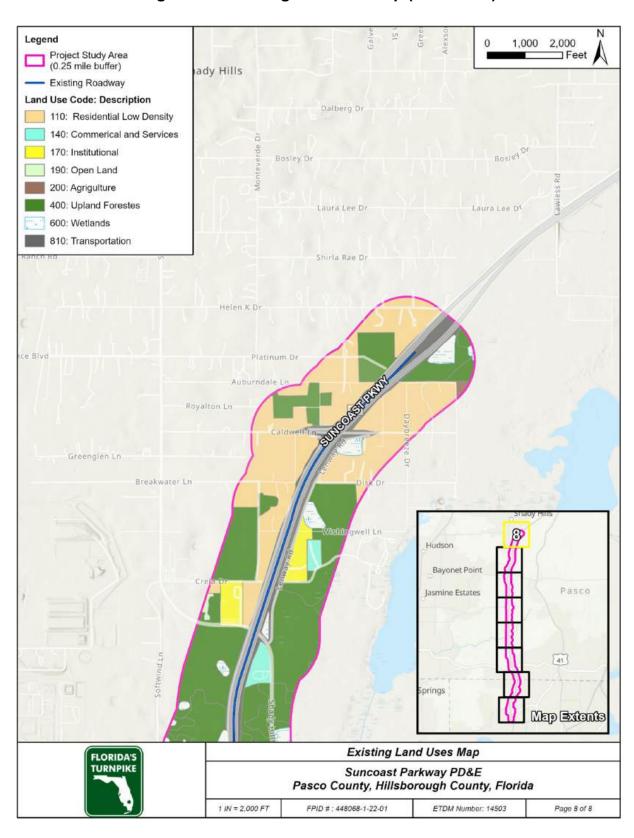


Figure 2-8: Existing Land Use Map (Continued)

## 2.2.6 Pavement Type and Condition

A pavement survey was not completed for this PD&E Study. However, the FDOT Office of Transportation Statistics Road Data Shape Files for Pavement Conditions in Geographic Information System (GIS) were reviewed, and field observations confirmed the existing condition of the pavement. The Pavement Conditions file was published on February 2, 2019. The Suncoast Parkway within the project limits has a pavement condition score of 3.5 which indicates a Good pavement condition with slight deterioration.

### 2.2.7 Existing Design and Posted Speed

The posted speed limit for the Suncoast Parkway mainline is 60 mph from approximately MP 13 to MP 17 and 70 mph from MP 17 to MP 29. **Table 2-8** summarizes the design and posted speeds for all facilities including ramps. The design and posted speeds were obtained from as-built plans in conjunction with field reviews. A design speed of 70 mph for the Suncoast Parkway mainline meets the minimum required design speed per the SIS minimum design speed in the Florida Design Manual (FDM), Chapter 1, Table 201.5.1 for Limited Access Facilities (SIS), and the minimum design speed in American Association of State Highway and Transportation Officials (AASHTO) A Policy on Design Standards Interstate System (2008) Ed. 7.



**Table 2-8: Summary of Design and Posted Speeds** 

Roadway	Description	Posted Speed (miles per hour (mph)	Design Speed (mph)
Suncoast Parkway	Milepost (MP) 13 to MP 17	60	60
Suncoast Parkway	MP 17 to MP 29	70	70
	Van Dyke Road Interch	ange	
Ramp A	SB On-Ramp (Van Dyke Rd) to Suncoast Pkwy (SR 589)	45	45-50
Ramp B	NB Off-Ramp (SR 589) to Van Dyke Rd	40	45-50
Ramp C	NB On-Ramp (Van Dyke Rd) to Suncoast Pkwy (SR 589)	45	45-50
Ramp D	SB Off-Ramp (SR 589) to Van Dyke Rd	45	45-50
	Lutz Lake Fern Road Inter	rchange	
Ramp A	SB On-Ramp (W Lutz Lake Fern Rd) to Suncoast Pkwy (SR 589)	30	30-45
Ramp B	SB Off-Ramp (SR 589) to W Lutz Lake Fern Rd	45	45-60
Ramp C	NB Off-Ramp Suncoast Pkwy (SR 589) to W Lutz Lake Fern Rd	30	30-45
Ramp D	NB On-Ramp W Lutz Lake Fern Rd to Suncoast Pkwy (SR 589)	45	45-60
	SR 54 Interchange	•	
Ramp A	SB On-Ramp SR 54 to (589)	55	45-50
Ramp B	NB Off-Ramp (589) to SR 54	50	50
Ramp C	NB On-Ramp SR 54 to (589)	55	50
Ramp D	SB Off-Ramp (589) to SR 54	50	50
	Ridge Road Intercha	nge	
Ramp A	SB On-Ramp Rangeland to (589)	45	25-50
Ramp B	NB Off-Ramp (589) to Rangeland	45	30-50
Ramp C	NB On-Ramp Rangeland to (589)	45	45-50
Ramp D	SB Off-Ramp (589) to Rangeland	45	25-40

Roadway	Description	Posted Speed (miles per hour (mph)	Design Speed (mph)
	SR 52 Interchange	•	
Ramp A	SB On-Ramp SR 52 to (589)	45	50
Ramp B	NB Off-Ramp (589) to SR 52	50	25-50
Ramp C	NB On-Ramp SR 52 to (589)	50	50
Ramp D	SB Off-Ramp (589) to SR 52	50	50

# 2.2.8 Horizontal Alignment

The existing horizontal alignment was determined from a review of available roadway plans and as-builts. **Table 2-9** summarizes the existing horizontal alignment of the Suncoast Parkway mainline.



**Table 2-9: Existing Horizontal Alignment** 

	PC			Existing	Horizonta	Curve	As- Built Plan						
Curve	Station	PT Station	Degree	Radius (feet)	Length (feet)	SE	Source (FPID No.)						
	Suncoast Parkway (589)												
SB SUNCOAST- 1	2378+78.89	2743+78.92	00°52'36"	6536	500.03	0.027	429350-4-52-01						
SB SUNCOAST- 2	2743+78.92	2756+30.41	01°07'24"	5100	1251.48	0.033	429350-4-52-01						
CL2	1021+17.97	1051+54.08	01°00'00"	5729.58	2786.12	0.03	429025-1-52-01						
CL3	1079+22.37	1090+49.02	02°00'00"	2864.79	676.65	0.03	429025-1-52-01						
CL4	1125+32.66	1144+05.54	02°15'00"	2546.48	1297.88	0.061	429025-1-52-01						
NB5	1152+46.86	1167+42.10	02°15'00"	2546.48	770.24	0.061	429025-1-52-01						
SB5	1152+79.99	1167+75.23	02°15'00"	2546.48	770.24	0.078	429025-1-52-01						
CL6	1173+09.40	1199+98.19	01°30'00"	3819.72	2288.79	0.054	429025-1-52-01						
CL2	1021+17.97	1051+54.08	01°00'00"	5729.58	2786.12	0.03	429025-1-52-01						
CL7	1230+09.62	1248+38.04	01°15'00"	4583.66	1828.42	0.046	444486-1						
CL8	1255+27.63	1297+24.70	00°45'00"	7639.44	4197.07	0.028	444486-1						
CL1	1447+73.08	1472+27.69	00°15'00"	22918.31	2454.61	NC	424792-1-52-01						
CL2	1504+77.69	1523+41.08	00°15'00"	22918.31	1863.39	NC	424792-1-52-01						
CL3	1523+41.08	1550+00.00	00°15'00"	22918.31	2658.92	NC	424792-1-52-01						
CL4	1584+51.14	1596+01.83	00°10'00"	34377.47	1150.69	NC	424792-1-52-01						
BL-1	1923+00.00	1941+12.01	01°15'00"	4583.66	1812.01	0.046	258956-1-52-01						
BL-2	1951+53.16	1966+24.15	02°00'00"	2864.79	1470.99	-	258956-1-52-01						
BL-3	2018+03.26	2038+76.73	01°00'00"	5729.58	2073.47	0.037	258956-1-52-01						
		Van	Dyke Road	Interchan	ge								
Ramp A1-1	137+89.04	148+90.00	02°15'00"	2546.48	1100.96	0.045	258927-1-52-01						
Ramp A2-1	238+52.43	244+96.88	03°00'00"	1909.86	644.44	0.048	258927-1-52-01						

	PC PT out			Existing Horizontal Cur				
Curve	Station	PT Station	Degree	Radius (feet)	Length (feet)	SE	Source (FPID No.)	
Ramp A3-1	312+88.88	316+37.57	02°00'00"	2865	348.69	0.034	429350-4-52-01	
Ramp A3-2	320+21.90	324+95.96	01°59'22"	2880	474.06	0.034	429350-4-52-01	
Ramp A4-1	416+53.67	425+20.38	02°30'00"	2292	866.71	0.041	429350-4-52-01	
		Lutz La	ake Fern Ro	oad Interch	ange			
Ramp B1-1	134+00.50	136+36.12	38°11'50"	150.00	235.62	0.070	429025-1-52-01	
Ramp B1-2	138+81.12	144+12.95	09°30'00"	603.11	531.83	0.100	429025-1-52-01	
Ramp B1-3	147+90.06	160+52.11	05°15'00"	1091.35	1262.05	0.086	429025-1-52-01	
Ramp B2-1	238+63.25	243+28.96	03°00'00"	1909.86	465.71	0.025	429025-1-52-01	
Ramp B2-2	254+29.23	265+07.84	00°45'00"	7639.44	1078.61	0.028	429025-1-52-01	
Ramp B3-1	341+77.44	348+93.66	22°55'06"	250.00	441.22	0.100	429025-1-52-01	
Ramp B4-1	443+55.54	453+77.45	17°21'44"	330.00	771.91	0.093	429025-1-52-01	
Ramp B4-2	455+52.25	457+87.87	38°11'50"	150.00	235.62	0.07	429025-1-52-01	
Ramp C3-1	344+50.85	351+35.17	01°45'00"	3274.04	684.32	0.036	444486-1	
Ramp C3-2	353+62.97	357+49.00	02°00'00"	2864.79	386.04	0.034	444486-1	
Ramp C4-1	440+59.73	445+97.60	00°45'00"	7639.44	537.87	VARIES	444486-1	
Ramp C4-2	449+11.94	452+66.01	00°30'00"	11459.16	354.07	NC	444486-1	
Ramp C1-1	179+43.58	189+14.51	01°45'00"	3274.05	970.94	0.036	444486-1	
			SR 54 Inte	rchange				
Ramp C1-1	179+43.58	189+14.51	01°45'00"	3274.05	970.94	0.036	444486-1	
Ramp C2-1	274+78.28	280+14.42	01°30'00"	3819.7	536.14	0.031	444486-1	
Ramp C2-2	288+84.96	293+45.79	00°50'02"	6870	460.83	0.028	444486-1	
Ramp C3-1	344+50.85	351+35.17	01°45'00"	3274.04	684.32	0.036	444486-1	
Ramp C3-2	353+62.97	357+49.00	02°00'00"	2864.79	386.04	0.034	444486-1	
Ramp C4-1	440+59.73	445+97.60	00°45'00"	7639.44	537.87	VARIES	444486-1	

	PC			Existing	Horizonta	Curve	As- Built Plan
Curve	Station	PT Station	Degree	Radius (feet)	Length (feet)	SE	Source (FPID No.)
Ramp C4-2	449+11.94	452+66.01	00°30'00"	11459.16	354.07	NC	444486-1
Ramp C1-1	179+43.58	189+14.51	01°45'00"	3274.05	970.94	0.036	444486-1
			SR 52 Inte	rchange			
Ramp E-1	107+43.17	117+04.74	01°00'00"	5729.58	961.57	0.030	258956-1-52-01
Ramp E-2	207+35.13	215+34.97	00°45'00"	7639.44	799.84	0.030	258956-1-52-01
Ramp E-3	306+00.07	314+45.63	01°00'00"	5729.58	845.55	0.030	258956-1-52-01
Ramp E-4	405+26.88	412+56.05	00°45'00"	7639.44	729.18	0.030	258956-1-52-01

## 2.2.9 Vertical Alignment

The existing vertical alignment was determined from a review of available existing roadway plans and as-builts. **Table 2-10** summarizes the existing vertical alignment of the Suncoast Parkway mainline.

**Table 2-10: Existing Vertical Alignment** 

DVC	DVT		Existing	Vertical Cu	rve	As Built Dlan
PVC Station	PVT Station	A (%)	Max G (%)	Length (feet)	K- Value	As- Built Plan Source (FPID No.)
			Van Dy	ke Road		
1019+70.00	1037+70.00	5.225	-2.699	1800.00	344	258927-1-52-01
		From Van	Dyke Road	to Ramblev	vood Road	
1037+70.00	1045+70.00	2.820	-2.699	800.00	283	258927-1-52-01
1066+70.00	1074+70.00	2.296	2.417	800.00	348	258927-1-52-01
			Ramblew	vood Road		
1074+70.00	1090+71.00	4.715	2.417	1600.00	339	258927-1-52-01
		From R	amblewoo	d Road to TF	PC Blvd	
1092+20.00	1100+20.00	3.906	-2.298	800.00	204	258927-1-52-01
			TPC	Blvd		
1107+80.00	1118+80.00	3.455	-1.847	1100.00	318	258927-1-52-01
		From TP	C Blvd to I	Lutz Lake Fe	rn Road	
1119+80.00	1127+80.00	4.077	2.230	800.00	196	258927-1-52-01
			Lutz Lake	Fern Road		
1127+80.00	1145+83.92	4.841	-2.611	1800.00	371	258927-1-52-01
	From Lu	utz Lake F	ern Road t	o South Brai	nch Anclote Ri	ver
1145+83.92	1153+83.92	2.561	-2.611	800.00	313	258927-1-52-01

PVC	PVT		Existing	Vertical Cu	irve	As- Built Plan
Station	Station	A (%)	Max G (%)	Length (feet)	K- Value	Source (FPID No.)
1145+83.92	1154+45.77	2.543	-2.611	800.00	314	258927-1-52-01
1184+00.00	1194+00.00	0.220	-0.170	1000.00	4539	258927-1-52-01
1209+00.00	1217+00.00	1.104	0.934	800.00	725	258954-1-52-01
			South An	clote River		
1217+00.00	1227+00.00	1.616	0.934	1000	619	258954-1-52-01
		From	South Ancl	ote River to	SR 54	
1230+00.00	1238+00.00	0.725	-0.682	800	1103	258954-1-52-01
1248+05.00	1256+05.00	2.141	2.184	800	373	258954-1-52-01
			SF	R 54		
1256+05.00	1278+55.00	4.394	-2.21	2250	512	258954-1-52-01
		Fro	m SR 54 to	Sandy Brai	nch	
1280+18.00	1288+18.00	2.117	-2.21	800	378	258954-1-52-01
1395+50.00	1400+50.00	0.900	0.9	500	555	258955-1-52-01
			Sandy	Branch		
1402+00.00	1412+00.00	1.8	0.900	1000	555	258955-1-52-01
	T			ch to Anclot		
1413+50.00	1418+50.00	0.9	-0.900	500	555	258955-1-52-01
1475+00.00	1479+00.00	0.5	0.500	400	800	258955-1-52-01
1489+00.00	1404.00.00	0.953	0.500	te River 500	525	250055 4 52 04
1469+00.00	1494+00.00			ver to Ridge		258955-1-52-01
1507+50.00	1511+50.00	0.453	-0.453	400	883	258955-1-52-01
1513+00.00	1517+00.00	0.5	0.500	400	800	258955-1-52-01
1518+00.00	1523+00.00	0.5	0.500	500	1000	258955-1-52-01
1546+15.00	1550+15.00	0.773	0.773	400	517	258955-1-52-01
1553+00.00	1557+00.00	0.776	-0.776	400	515	258955-1-52-01
1610+00.00	1614+00.00	0.444	0.444	400	901	258955-1-52-01
1614+00.00	1617+00.00	0.444	-0.444	500	1126	258955-1-52-01
1623+00.00	1627+00.00	0.5	0.500	400	800	258955-1-52-01
1631+50.00	1636+50.00	0.5	0.500	500	1000	258955-1-52-01
4005 - 07 00	4005 - 07 00			Road	400	074.40.0000
1805+87.00	1825+87.00	5 From F	2.500	2000	400	97140-3302
1011:50.00	1010.50.00			to Fivemile		050050 4 50 04
1814+50.00	1819+50.00	0.154	-0.154	500	3247	258956-1-52-01
1828+00.00	1832+00.00	0.217	-0.154	400	1843	258956-1-52-01
1844+00.00	1848+00.00	0.937	1.000	400	427	258956-1-52-01
			Fivemi	le Creek		
1848+00.00	1858+00.00	2	1.000	1000	500	258956-1-52-01

PVC	PVT		Existing	Vertical Cu	irve	As- Built Plan					
Station	Station	A (%)	Max G (%)	Length (feet)	K- Value	Source (FPID No.)					
	From Fivemile Creek to Pithlachascotee River										
1858+00.00	1862+00.00	0.6	-1.000	400	667	258956-1-52-01					
1868+00.00	1872+00.00	0.733	-0.400	400	546	258956-1-52-01					
1876+50.00	1881+50.00	0.555	0.333	500	901	258956-1-52-01					
1886+00.00	1890+00.00	0.281	-0.222	400	1423	258956-1-52-01					
1902+50.00	1907+50.00	0.941	1.000	500	531	258956-1-52-01					
			Pithlachas	cotee River							
1907+50.00	1917+50.00	2	1.000	1000	500	258956-1-52-01					
		From P	ithlachasc	otee River to	o SR 52						
1917+50.00	1922+50.00	1.181	-1.000	500	423	258956-1-52-01					
1918+50.00	1923+50.00	1.181	-1.000	500	423	258956-1-52-01					
1938+50.00	1943+50.00	0.681	0.500	500	734	258956-1-52-01					
1940+25.00	1945+25.00	0.681	0.500	500	734	258956-1-52-01					
1948+00.00	3952+00.00	0.574	-0.500	400	697	258956-1-52-01					
3951+00.00	3955+00.00	0.574	-0.500	400	697	258956-1-52-01					
1977+50.00	1982+50.00	2.574	2.500	500	194	258956-1-52-01					
			SF	R 52							
1983+80.00	2003+80.00	5	2.500	2000	400	258956-1-52-01					
		Fro	m SR 52 to	End of Pro	ject						
2003+80.00	2008+80.00	2.401	2.500	500	208	258956-1-52-01					
2020+00.00	2024+00.00	0.17	-0.099	400	2353	258956-1-52-01					
2040+50.00	2045+50.00	0.071	0.071	500	7042	258956-1-52-01					

### 2.2.10 Multi-modal Facilities

#### Pedestrian Accommodations

Suncoast Parkway, as a limited access facility, is statutorily exempt from providing bicycle or pedestrian facilities. The Suncoast Trail is located on the west side of the Suncoast Parkway. The Suncoast Trail is a 12-foot-wide paved multi-use trail that extends through Hillsborough, Pasco, and Hernando counties. Within the project limits, the Suncoast Trail begins at Lutz Lake Fern Road and continues beyond the end of the project limit.

Pedestrian and bicycle facilities can also be found on the cross streets within the study area. **Table 2-11** summarizes the pedestrian and bicycle facilities on the cross streets.

**Table 2-11: Existing Pedestrian and Bicycle Facilities** 

Cross Streets	Pedestrian Facility	Bicycle Facility
Van Dyke Road	No	No
Lutz Lake Fern Road	Yes	Yes
SR 54	Yes	Yes
Ridge Road	Yes	No
SR 52	Yes	Yes

### **Transit Facilities**

Transit services are not present along the Suncoast Parkway. However, transit options are provided along several of the local roadways that crosses Suncoast Parkway and along local roadways adjacent to the project corridor. A complete list of the local roadways within the project limits that provides transit service, and their routes are shown in

**Table** 2-12.

**Table 2-12: Existing Transit Facilities** 

Road	Existing Bus Route	Bus Company	Route Number
Van Dyke Road	No	-	-
Lutz Lake Fern Road	No	-	-
SR 54	Yes	GoPasco	54
Rangeland Boulevard	No	-	-
Ridge Road	No	-	-
SR 52	No	-	-

#### 2.2.11 Intersections

There are five existing interchanges located within the study limits. These interchanges include Van Dyke Road, Lutz Lake Fern Road, SR 54, Ridge Road, and SR 52. Each of these interchanges distributes traffic east and west throughout Hillsborough and Pasco counties, respectively.

There are 14 signalized and five unsignalized intersections within the study area. The signalized and unsignalized intersections within the study area are described below.

#### Intersections along Van Dyke Rd (MP 14)

- Lake Carlton Dr (signalized)
- SR 589 Northbound Ramps (signalized)
- SR 589 Southbound Ramps (signalized)
- Tobacco Rd/St Angelo Dr (unsignalized)
- Van Dyke Farms Blvd (unsignalized)

### Intersections along W Lutz Lake Fern Rd (MP 16)

- Steinbrenner High School Entrance (signalized)
- SR 589 Northbound Ramps (signalized)
- SR 589 Southbound Ramps (signalized)

#### Intersections along SR 54 (MP 19)

- Northpointe Pkwy/Bexley Village Dr (signalized)
- SR 589 Northbound Ramps (signalized)
- SR 589 Southbound Ramps (signalized)
- Crossings Blvd/Touchpoint Dr (signalized)
- S Branch Blvd (signalized)

#### Intersections along Ridge Rd (MP 24)

- SR 589 Northbound Ramps (unsignalized)
- SR 589 Southbound Ramps (unsignalized)

### Intersections along SR 52 (MP 27)

- Deerbrook Blvd (unsignalized)
- SR 589 Northbound Ramps (signalized)
- SR 589 Southbound Ramps (signalized)
- Silver Palm Blvd/Canyon Blvd (signalized)

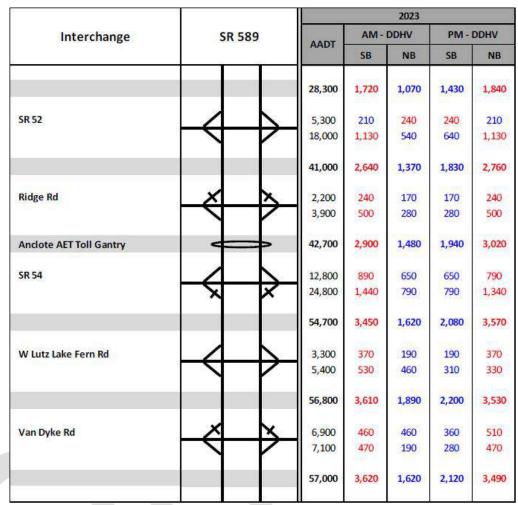
### 2.2.12 Physical or Operational Restrictions

There are no physical or operational restrictions such as multimodal use lanes, parking, or fixed objects. Barrier walls exist throughout the corridor to protect bridge piers, separate traffic streams, and at-grade separations (bridges and elevated ramps). Roadway guardrails exist at various locations throughout the corridor.

#### 2.2.13 Traffic Data

A traffic analysis was completed as part of this study and is documented under a separate cover in the Project Traffic Forecast Memorandum (PTFM). The PTFM was prepared to document the existing and future traffic conditions for the project study area. The existing Annual Average Daily Traffic (AADT) volume for both the Suncoast Parkway mainline and the tolled ramps within the study limits are summarized in Table 2-13.

Table 2-13: 2023 (Existing) Annual Average Daily Traffic (AADT) and Directional Design Hour Volumes



Note: Values in RED indicate PEAK direction and values in BLUE indicate OFF-PEAK direction Bold: Mainline AADT, Non-Bold: Ramp AADT

## 2.2.14 Roadway Operational Conditions

The SR 589 mainline segments (basic and merge/diverge influence areas) within the study limits were evaluated in each direction using HCS 2023 facility module. The LOS target for SR 589 during peak travel hours is D (urban area), per the State Highway System Policy No. 000-525-006c, effective April 19, 2017. Most of the freeway segments in both directions currently operate at LOS D or better during both the AM and PM peak hours except basic and diverge segments between Lutz Lake Fern Road and Van Dyke Road in the southbound direction during the AM peak which operate at LOS E.

## 2.2.15 Managed Lanes

There are no managed lanes located within the project limits.

#### 2.2.16 Crash Data

Total

Crash data for state roads within the project Area of Influence (AOI) were processed using the most recent five-year data from FDOT's Crash Analysis Reporting System (CARS) from 2018 through 2022. Crash data for non-state roads were obtained from the Signal Four Analytics tool, an FDOT-funded database developed in coordination with the state's CARS. Signal Four data were processed for the same period as the CARS data. Detailed crash reports (long/short forms) were reviewed to verify the accuracy of the information obtained from the database.

A total of 1,562 crashes were reported within the AOI during the five-year study period from 2018 through 2022, as presented in **Table 2-14**. The number of crashes in the study area increased each year except 2020 and 2022. Most of the crashes resulted in injury and property damage only. Eight fatal crashes were reported during the five-year analysis period.

**Crash Severity** 2022 **Population** 2018 2019 2020 2021 Total **Fatality** 2 1 1 2 2 8 1% 112 119 Injury 84 126 128 569 36% **Property Damage Only** 199 207 147 233 199 985 63%

Table 2-14: Number of Crashes and Crash Severity by Year

Table 2-15 summarizes the crashes based on location and is graphically highlighted in

327

**Figure** 2-10. Forty-two percent of the crashes occurred on SR 589 mainline, 5% along the SR 589 ramps, 6% along cross streets' midblock, and 46% at the intersections within the project AOI.

232

361

329

1,562

313

100%

**Table 2-15: Number of Crashes by Location** 

Roadway Element	2018	2019	2020	2021	2022	Total	Population
SR 589 Mainline	115	129	100	153	156	653	42%
SR 589 Ramps	18	16	11	25	12	82	5%
Midblock	29	17	10	24	21	101	6%
Intersections	151	165	111	159	140	726	46%
Total	313	327	232	361	329	1,562	100%

**Figure** 2-10 graphically depicts the crash density along the Suncoast Parkway mainline and at the interchanges within the study limits. **Figure 2-9** highlights the fatal crash locations for vehicles and **Figure 2-11** highlights the bicycle and pedestrian fatal crash locations.



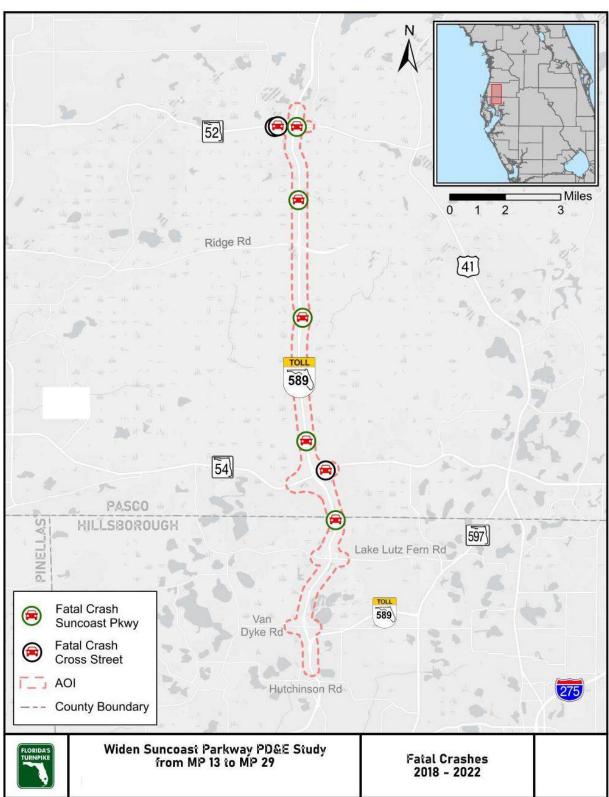


Figure 2-9: Fatal Crash Locations

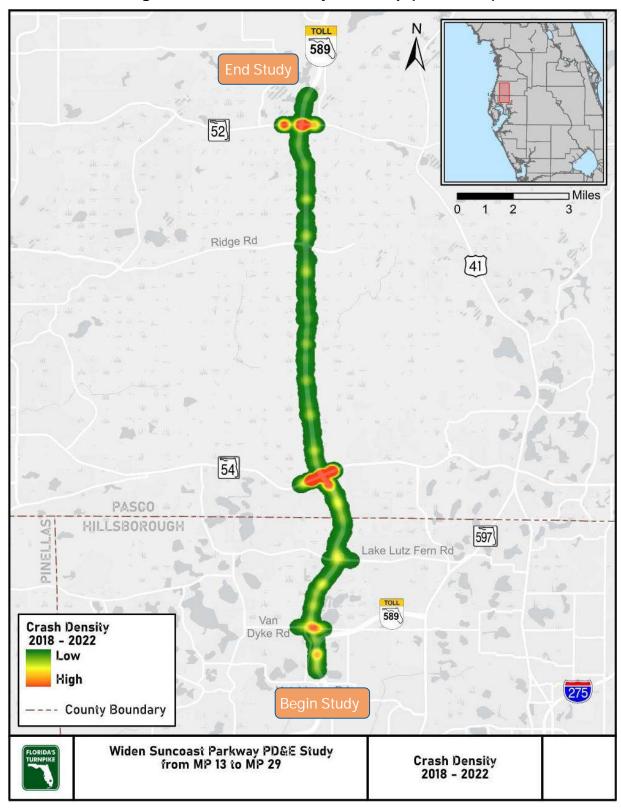


Figure 2-10: Crash Density Heat Map (2018-2022)

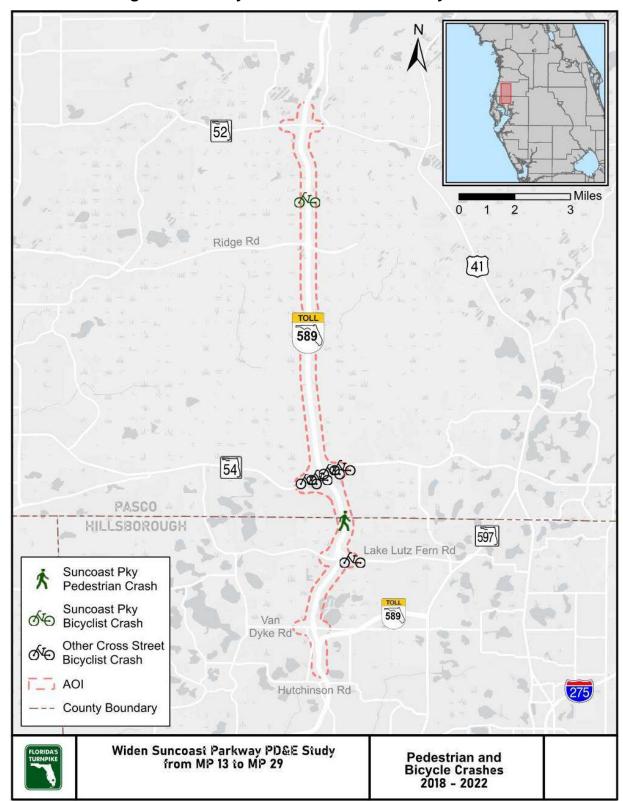


Figure 2-11: Bicycle and Pedestrian Fatality Locations

Mainline and Ramp Roadway Crashes

### SR 589 Mainline Crashes (MP 13- MP 29)

A total of 653 crashes were reported along approximately 16 miles of SR 589 mainline from south of Van Dyke Rd to north of SR 52 during the five-year analysis period from 2018 through 2022. As shown in **Figure 2-12**, rear-end crashes (approximately 33%) were the prominent crash type at the interchange ramp terminal followed by off-road (approximately 28%). Reports indicated that approximately 78% of the crashes occurred during dry roadway conditions and approximately 64% crashes occurred during the AM and PM peak periods of daytime. Four fatal crashes were reported within the five-year study period due to rollover, off-road, pedestrian and bicycle crashes.

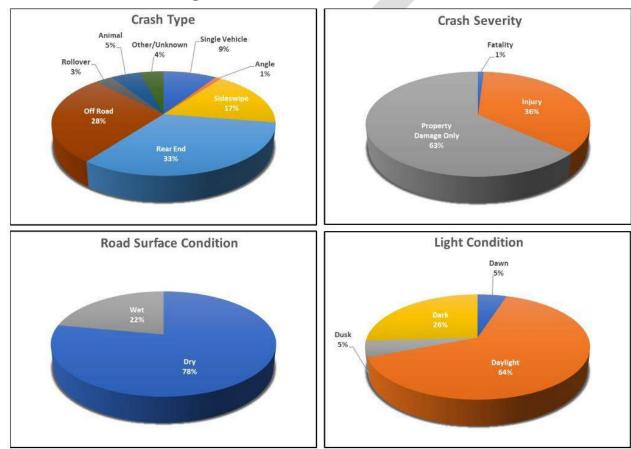


Figure 2-12: SR 589 Mainline Crashes

#### Van Dyky Road Interchanges Ramp Roadway Crashes (MP 14)

Van Dyke Road interchange ramps experienced a total of ten crashes during the five-year analysis period. As shown in **Figure 2-13**, rear end crashes (approximately 80%) were the most prominent crash type on the interchange ramps with 60% resulting in property damage. Reports indicated that approximately 90% of the crashes occurred during dry roadway conditions and approximately 80% crashes occurred during daylight hours.

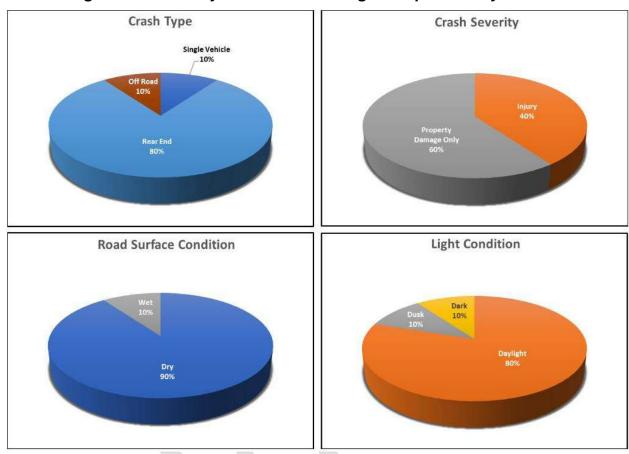


Figure 2-13: Van Dyke Road Interchange Ramp Roadway Crashes

## Lutz Lake Fern Road Interchange Ramp Roadway Crashes (MP 16)

The Lutz Lake Fern Road interchange ramp terminal experienced a total of six crashes during the five-year analysis period. An estimated 67% of the total crashes resulted in injuries. As shown in **Figure 2-14**, off-road crashes (approximately 66%) were the prominent crash type at the interchange ramp terminal. Reports indicated that approximately 50% of the crashes occurred during dry roadway conditions and approximately 66% crashes occurred during daylight hours.

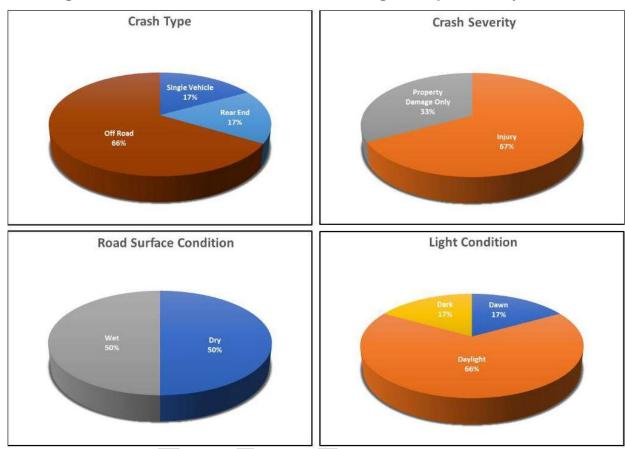


Figure 2-14: Lutz Lake Fern Road Interchange Ramp Roadway Crashes

## SR 54 Interchange Ramp Roadway Crashes (MP 19)

The SR 54 interchange ramp terminals experienced a total of 51 crashes during the five-year analysis period. No fatal crashes were reported during the study period. As shown in **Figure 2-15**, rear-end crashes (approximately 43%) and off-road (approximately 31%) were the prominent crash type on the interchange ramps. Reports indicated that approximately 76% of the crashes occurred during dry roadway conditions and approximately 82% crashes occurred during daylight hours.

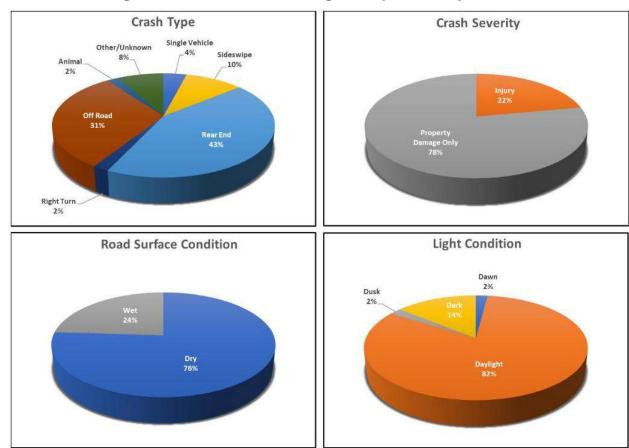


Figure 2-15: SR 54 Interchange Ramp Roadway Crashes

### Ridge Road Interchange Ramp Roadway Crashes (MP 24)

No crashes were reported at the Ridge Road interchange ramps since the interchange opened to traffic in 2022.

### SR 52 Interchange Ramp Roadway Crashes (MP 27)

The SR 52 interchange ramps experienced a total of 15 crashes during the five-year analysis period. No fatal crashes were reported during the study period. An estimated 53% of the total crashes resulted in injury. As shown in **Figure 2-16**, rear end crashes (approximately 47%) were the prominent crash type on the interchange ramps. Reports indicated that approximately 93% of the crashes occurred during dry roadway conditions and approximately 60% of the crashes occurred during daylight hours.

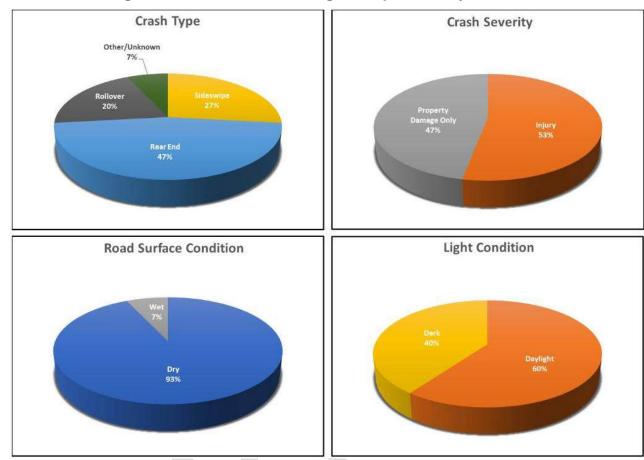


Figure 2-16: SR 52 Interchange Ramp Roadway Crashes

## 2.2.17 Railroad Crossings

There are no railroad crossings within or immediately adjacent to the project study limits.

### 2.2.18 Drainage

There are thirty-six existing basins within the project limits (summarized in **Table 2-16**). Each basin is equipped with a stormwater management system to attenuate and treat runoff. This project is under the juristiction of Southwest Florida Water Management District (SWFWMD).

Existing Basins 1A-9 are located in the Northwest Five Watershed and are considered to be open basins. Rocky Creek (Upper Segment) (WBID 1463) is impaired for dissolved oxygen; however, no nutrient impairments were identified. Rocky Creek (Upper Segment) drains to Old Tampa Bay (WBID 1558I) which is impaired for total phosphorus, thus nutrient loading calculations may be required in the design phase. The ultimate outfall—Old Tampa Bay—is within Pinellas County Aquatic Preserve which is considered an Outstanding Florida Water (OFW).

Existing Basins 10-24 are located in the Anclote East watershed and are considered to be open basins. South Branch Anclote River (WBID 1456) and Anclote Anchorage (WBID 8045C) are not impaired waterbodies, and no nutrient impairments were identified. South Branch Anclote River drains to Anclote River Tidal (WBID 1440) which is impaired for total nitrogen, thus nutrient loading

calculations may be required in the design phase. The ultimate outfall—Anclote Anchorage—is within Pinellas County Aquatic Preserve which is considered an OFW.

Existing Basins 25-32 are located in the Pithlachascotee River/Bear Creek watershed and are considered open basins. Fivemile Creek (WBID 1434) and Pithlachascotee River (WBID 1409) watersheds are not impaired for nitrogen or phosphorus. The Gulf of Mexico (Pasco County; Pithlachascotee River) (WBID 8044E) watershed is impaired for total nitrogen, thus nutrient loading calculations may be provided in the design phase. The ultimate outfall of the Pithlachascotee River is within the Nature Coast Aquatic Preserve which is considered an OFW.

It should be noted that while the ultimate outfall is an OFW, receiving wetlands and Rocky Creek are not considered OFWs. Moreover, original permits do not account for 150% treatment volume in their calculations. Thus, it is likely SWFWMD would not require mitigation for ultimately discharging into an OFW.

**Table 2-16: Existing Basins Summary** 

Basin Number	From Station	To Station	Outfall Location	Open Basin?	Flood Zone(s) and BFE if applicable	Watershed	SWFWMD Permit No.
1A	3000+00	3006+50	Pond 1A	Υ	applicable	Northwest Five	7864
1B	3006+50	3025+00	Pond 1B	Y	-	Northwest Five	7864
1C	3006+50	3025+00	Pond 1C	Y	-	Northwest Five	7864
2	3009+00	3042+00	Pond 2	Y	-	Northwest Five	7864
3	3030+00	3042+00	Pond 3	Υ	А	Northwest Five	7864
4	3042+00	3065+00	Pond 4	Y	А	Northwest Five	7864
5	3065+00	3094+00	Pond 5	Y	А	Northwest Five	16172
6	3094+00	3138+00	Pond 6	Y	А	Northwest Five	16172
7	3138+00	3170+00	Pond 7	Y	А	Northwest Five	16172
8	3162+00	3182+50	Pond 8	Y	-	Northwest Five	16172
9	3161+00	3209+50	Pond 9	Υ	Α	Northwest Five	16172
10	3209+50	3249+50	Pond 10	Y	AE (54.9' to 58.3')	Anclote East	15873
11	3249+50	3275+50	Pond 11	Y	AE (54.6' to 55.3')	Anclote East	15873
12	3272+00	3292+00	Pond 12	Y	AE (54.6' to 54.7')	Anclote East	15873
13	3274+00	3324+50	Pond 13	Y	A & AE (49.6' to 55.3')	Anclote East	15873
14	3324+50	3352+00	Pond 14	Y	AE (50.4' to 52.3')	Anclote East	15560

Basin Number	From Station	To Station	Outfall Location	Open Basin?	Flood Zone(s) and BFE if applicable	Watershed	SWFWMD Permit No.
15	3352+00	3384+00	Pond 15	Y	A & AE (48.5' to 52.3')	Anclote East	15560
16	3384+00	3408+00	Pond 16	Y	A & AE (48.5' to 52.2')	Anclote East	15560
17	3408+00	3431+00	Pond 17	Y	AE (49.7' to 52.5')	Anclote East	15560
18	3431+00	3468+25	Pond 18	Y	AE (47.3' to 52.5')	Anclote East	15560
19	3468+25	3495+25	Pond 19	Y	AE (47.3' to 52.0')	Anclote East	15560
20	3495+25	3518+00	Pond 20	Y	AE (50.2' to 53.5')	Anclote East	15560
21	3511+90	3548+90	Pond 21	Y	AE (48.6' to 54.2')	Anclote East	15560
22	3538+00	3560+90	Pond 22	Y	AE (51.6' to 52.9')	Anclote East	15560
23	3560+90	3585+90	Pond 23	Y	AE (53.5' to 54.8')	Anclote East	15560
24	3585+90	3630+90	Pond 24	Y	AE (55.2' to 56.1')	Anclote East	15560
24B	3617+50	3644+00					18792
25	3616+00	3668+50	Pond 25	Y	A & AE (49.5')	Pithlachascotee River/Bear Creek	15753
25B	3616+00	3668+50					18792
26	3668+50	3694+25	Pond 26	Y	А	Pithlachascotee River/Bear Creek	15753
27	3694+25	3728+75	Pond 27	Y	A & AE (51.0')	Pithlachascotee River/Bear Creek	15753
28	3728+75	3755+25	Pond 28	Y	А	Pithlachascotee River/Bear Creek	15753
29	3755+25	3791+00	Pond 29	Y	А	Pithlachascotee River/Bear Creek	15753
30	3787+50	3809+00	Pond 30	Y	А	Pithlachascotee River/Bear Creek	15753

Basin Number	From Station	To Station	Outfall Location	Open Basin?	Flood Zone(s) and BFE <sup>*</sup> if applicable	Watershed	SWFWMD Permit No.
31	3802+50	3823+90	Pond 31	Y	А	Pithlachascotee River/Bear Creek	15753
32	3823+90	3866+90	Pond 32	Y	A	Pithlachascotee River/Bear Creek	15753

<sup>\*</sup>All elevations use datum NAVD88.

### 2.2.19 *Lighting*

Information on the existing lighting was obtained from available as-built plans. Existing lighting is not continuous within the project limits. Between Van Dyke Road and Lutz Lake Fern Road, continuous 400-watt fixtures are provided in an opposite arrangement. Through the Suncoast Operations Center exit and entrance, corridor lighting continues with a mixture of 250-watt and 400-watt fixtures. Approximately half mile south of Ridge Road, newer mongoose-style LED fixtures are provided. Specific interchange lighting arrangement follows.

#### Van Dyke Road

Interchange lighting is powered by a 240/480v service. Fixtures are 400-watt high pressure sodium fixtures on frangible bases. The ramps are lit with 250-watt fixtures. Underdeck lighting on Van Dyke Road is mounted on the bridge pier caps. Existing lighting on Van Dyke Road is LED style fixtures mounted on utility poles.

#### Lutz Lake Fern Road

Interchange lighting is powered by a 240/480v service. The existing load center is located on the north side of Lutz Lake Fern Road near the northbound on ramp. Mainline lighting consists of 400-watt high pressure sodium fixtures arranges opposite each other. The partial cloverleaf ramps are lit with 250-watt fixtures. Underdeck lighting fixtures are mounted on the bridge pier caps. Underdeck lighting on Lutz Lake Fern Road is pendant mounted over the travel lane. Current FDM criteria would require wall mounted fixtures for easier maintenance. Lighting along Lutz Lake Fern Road is 400-watt style with frangible base mounted poles.

### **SR 54**

As-built plans indicate that improvements to the south side of the interchange were installed under FPID 444486-1-52-01. A 240/480v service is provided by Duke Energy on the north side of the interchange. The existing load center is located on the north side of interchange between the Suncoast Parkway mainline and southbound off ramp. The lighting along the Suncoast Parkway mainline consists of 400-watt American Electric high pressure sodium fixtures mounted at 45' with 15' arms. Ramps in this area are served with 250-watt versions with 45' mounting height and 12'

arms. Underdeck lighting is pendant mounted over the travel lane. Current FDM criteria would require wall mounted fixtures for easier maintenance. Lighting along SR 54 is mongoose-style high pressure sodium mounted on frangible bases. A photo of the existing load center and service point located within the study area at the SR 54 is shown in **Figure 2-17**.



Figure 2-17: Existing Load Center and Service Point on SR 54

## Ridge Road

As-built plans indicate that mainline lighting through the interchange was constructed under FPID 258958-1-52-01 around 2020. Fixtures consists of Visionaire Bow LX Mongoose style LED fixtures. The fixtures wattages vary between 282-watts and 434-watts with a mounting height of 50'. A 240/480v service is provided Withlacoochee River Electric Cooperative (WREC). The existing load center is located on the north side of Ridge Road near the northbound on ramp. 53-watt Visionaire underdeck lighting mounted on the bridge pier caps is provided on Ridge Road. Lighting along Ridge Road is 434-watt mongoose-style LED fixtures mounted on frangible bases. A photo of the existing load center is shown in **Figure 2-18**.



Figure 2-18: Ridge Road Load Center

### SR 52

Mainline lighting through the interchange is 400-watt high pressure sodium fixtures with ramps being lit by 250-watt fixtures. As-built plans indicate that lighting improvements along SR 52 were constructed around 2019 under FPID 256323-1-52-01. Lighting assemblies near Suncoast parkway interchange consist of 279-watt Copper Navion fixtures mounted at 45' with 15' arms. Plans indicate a mixture of new LED assemblies installed to supplement existing WREC maintained fixtures. The lighting along SR 52 within the interchange limits is fed by a 240/480v load center located approximately three-quarter mile west of the interchange near Shady Hills Road (see photo below). Pendant style underdeck lighting was retrofit from high pressure sodium to LED. A photo of the existing load center is shown in **Figure 2-19**.



Figure 2-19: SR 52 Load Center

### 2.2.20 Utilities

A Utility Assessment Report was prepared for this project and provides relevant information regarding the existing location, size, type, and characteristics of public and private utilities located within and adjacent to the project corridor. As part of the PD&E study, the utility agencies/owners (UAOs) were contacted to acquire this information.

A Sunshine State One Call design ticket was obtained to ascertain the initial list of UAOs within the study area for this project. Existing utility facilities include power, gas, water, and communications. The existing UAOs, the identified UAO contacts, and facility types are summarized in **Table 2-17**.

Additional information on the coordination with the UAO within the project area is documented in the *Utility Assessment Report* prepared for this project.

**Table 2-17: Existing Utility Agencies** 

Utility Owner	Utility Type	Contact Person	Email
CenturyLink dba Lumen	Communication/ FOC		relocations@lumen.com
Clearwater Gas	Gas	Jacinta Corcoba	jacinta.corcoba@clearwatergas.com
Duke Energy Distribution	Electric		defdistributiongov@duke-energy.com
Duke Energy Fiber	Electric		deffibergov@duke-energy.com
Duke Energy Transmission	Electric		deftransmissiongov@duke-energy.com
Florida Gas Transmission	Gas	Joe Sanchez	joseph.e.sanchez@energytransfer.com
Frontier	Communication/ FOC	Kraivuth (Woody) Choeykrajang	kraivuth.choeykrajang@ftr.com
Hillsborough Co. Public Utilities	Water/Sewer/ Reclaim	Lorea Sample	utilitycoordination@hillsboroughcounty.org
Hillsborough Co. Traffic	No Facilities	Darryle Norton	nortond@hillsboroughcounty.org
MCI Metro Access Transmission Services, LLC (Verizon Business)	Communications/ FOC		investigations@verizon.com
Pasco Co. Traffic Ops.	No Facilities	Venkat Vattikuti	vvattikuti@pascocountyfl.net
Pasco Co. Utilities	Water/Sewer/ Reclaim	Aurybel Rivero	arivero@pascocountyfl.net
Sice Inc.		Robert Hernandez	bhernandez@sice.com
Spectrum - Hillsborough	Communications/ FOC		
Spectrum - Pasco	Communications/ FOC		dl-fl-pas-construction@charter.com
Tampa Bay Water	Water	Robert MacDonnell	utilitycoordination@tampabaywater.org
Tampa Electric	Electric		csadmin@tecoenergy.com

#### 2.2.21 Soils and Geotechnical Data

A review of geotechnical data available from United States Department of Agriculture - Natural Resources Conservation Service (USDA-NRCS) Soil Survey, United States Geological Survey (USGS) map and construction plans from previous projects was completed as part of this PD&E Study. There are six soil types identified within the segment of the project located in Hillsborough County and 23 for the segment passing through Pasco County. The soil types found within the study area are presented in **Table 2-18** and **Table 2-19**. **Figure 2-20** illustrates the area soils data was collected, and the legend is displayed in **Figure 2-21**. Review of existing data indicates the soils in the project area are typically fine sand soils with some muck present. Documentation of geotechnical data review is included in a separate Geotechnical Report.

Table 2-18: NRCS Soil Types in Hillsborough County

Soil Type	Acres in AOI	Percent of AOI
Basinger, Halopaw, and Samsula Soils, Depressional	305.7	5.6%
Malabar fine sand	265.0	4.9%
Myakka fine sand	741.1	13.6%
Pomello fine sand	3.0	0.1%
St. Johns fine sand	6.6	2.9%
Smyrna fine sand	156.1	1.2%
Water	65.4	1.2%

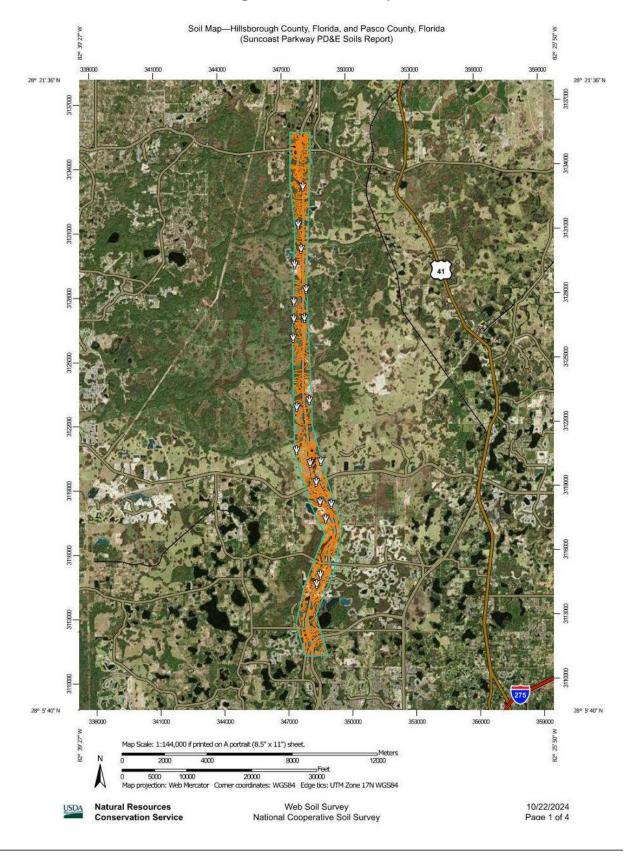


Figure 2-20: Soils Map

## Figure 2-21: Soil Map Legend

Soil Map—Hillsborough County, Florida, and Pasco County, Florida (Suncoast Parkway PD&E Soils Report)

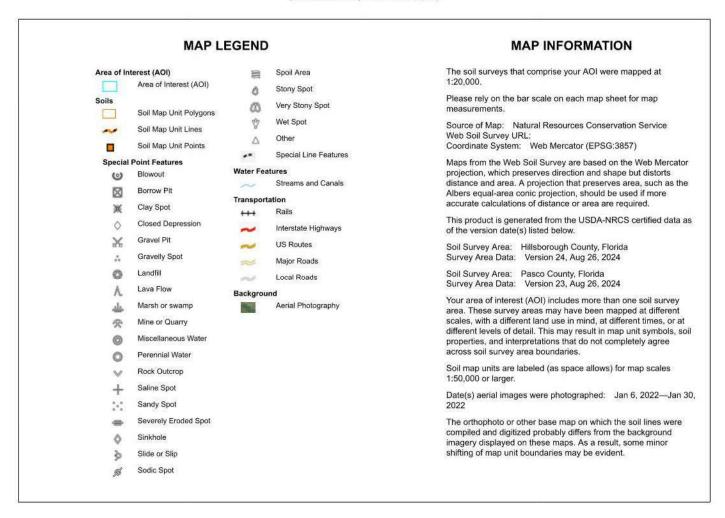


Table 2-19: NRCS Soil Types in Pasco County

Soil Type	Acres in AOI	Percent of AOI
Pomona fine sand	649.3	11.9%
Pineda fine sand	127.0	2.3%
Felda fine sand, 0 to 2 percent slopes	32.3	0.6%
Myakka-Myakka, wet fine sands	337.7	6.2%
Tavares sand, 0 to 5 percent slopes	81.4	1.5%
Sellers mucky loamy fine sand	603.1	11.1%
Wabasso-Wabasso, wet, fine, sand, 0 to 2 percent slopes	89.7	1.7%
Adamsville fine sand, 0 to 2 percent slopes	128.5	2.4%
Zephyr muck	148.9	2.7%
Immokalee fine sand	38.7	0.7%
Smyrna fine sand	503.1	9.3%
Basigner fine sand, depressional, 0 to 2 percent slopes	6.7	0.1%
Basinger fine sand, 0 to 1 percent slopes	68.7	1.3%
Narcoossee fine sand, 0 to 2 percent slopes	71.0	1.3%
EauGallie fine sand	331.0	6.1%
Chobee soils	224.4	4.1%
Paisley fine sand, 0 to 1 percent slopes	83.6	1.5%
Pomello fine sand, 0 to 5 percent slopes	99.8	1.8%
Cassia fine sand	147.3	2.7%
Samsula muck	24.0	0.4%
Wabasso Variant fine sand	7.4	0.1%
Palmetto-Zephyr-Sellers complex	15.7	0.3%
Delray mucky fine sand	1.4	0.0%
Water	70.8	1.3%

#### 2.2.22 Aesthetics Features

The project corridor is one of the primary north-south transportation corridors in Central Florida that supports a broad range of vehicle types daily. The Suncoast Parkway is also a designated scenic highway included in the Florida's Scenic Highway program. The Suncoast corridor within the study limits includes the Suncoast Trail which provides a safe, convenient space for non-motorized travel through the greenway while providing connections to a number of multi-use trails, recreation and nature parks and other destinations. The parallel trail provides a scenic aesthetic view of lush greenery to all users. **Figure 2-22** highlights the Suncoast Trail along with the Suncoast Parkway adjacent to it.



Figure 2-22: Suncoast Trail

### 2.2.23 Traffic Signs

As part of this PD&E study, an existing corridor sign inventory was performed within the project limits and is available in the project file.

#### 2.2.24 Noise Walls and Perimeter Walls

This section is pending completion of the Noise Study Report.

## 2.2.25 Intelligent Transportation Systems (ITS)/ Transportation Systems Management and Operations (TSM&O) Features

Based on as-built plans, the ITS configuration includes the following:

- Fiber Optic network for communications
- Closed circuit television (CCTV) cameras for traffic monitoring
- Dynamic message signs (DMS) providing traveler information
- Verification CCTV (V-CCTV) cameras for verifying DMS display
- Microwave vehicle detection systems (MVDS) to obtain speed classification, and volume data
- Bluetooth travel time detection system
- Tolling gantries and detectors to collect vehicle information
- Wrong way vehicle detection system (WWVDS) at off-ramps to detect and warn wrong way driving vehicles
- Lane Status DMS and a Toll Amount embedded DMS panel

The **Table 2-20** below shows the quantities of the existing ITS devices within the overall project limits. **Figure 2-23** shows the location map of the existing ITS devices.

**Table 2-20: Existing ITS Devices** 

ITS Devices	Quantities*
DMS	5
Embedded DMS	1
Lane Status DMS	1
CCTV Cameras	21
V-CCTV Cameras	2
MVDS	34
Bluetooth Detectors	7
WWVDS	1 system (2 ramps)
Toll Gantries	8
Suncoast Operations Center	1

<sup>\*</sup>The ITS device quantities are based on desktop review and not field verified.

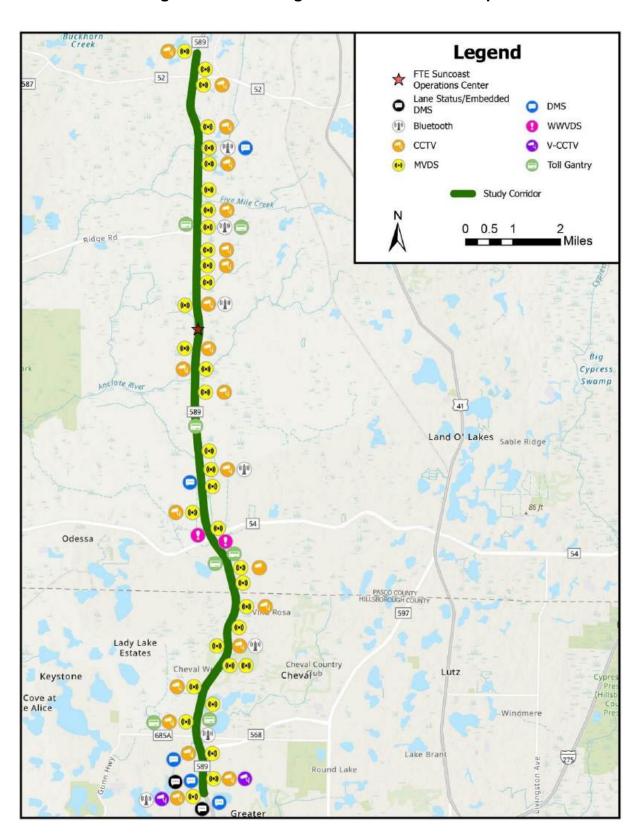


Figure 2-23: Existing ITS Device Location Map

## 2.3 Existing Bridges and Structures

There are 26 existing bridges within the project limits: nine in Hillsborough County and 17 in Pasco County. Bridge information pertinent to the study was compiled from as-built construction plans, inspection reports, and load ratings (see **Table 2-21**). All existing bridges within the project limit are owned by the Enterprise. Two bridges utilize AASHTO Type II & Type III Girders superstructures, two bridges utilize AASHTO Type II, twelve utilize AASHTO Type III, four utilize AASHTO Type VI, two utilize AASHTO Type V, two utilize AASHTO Type VI and five utilize steel plate girder. Four of the existing bridges within the project limits are recommended to be replaced to meet the current standards.



**Table 2-21: Existing Bridge Structures** 

	Bridge Numb	er	100563	100562	100624	100626	100627	100628	100629	100630	100631
	Bridge Tech Memo	Section	*		3.1	3.2	3.2	3.3	3.3	3.4	3.4
	Milepost		11.806	11.806	13.7	14.2	14.2	15.2	15.2	15.8	15.8
	VII		NB SR 589 over	SB SR 589 over	SB SR 568 over SR	NB SR 589 over	SB SR 589 over	NB SR 589 over	SB SR 589 over	NB SR 589 over	SB SR 589 over T
	Roadway Interse	ction	Lake LeClare Rd.	Lake LeClare Rd.	589	Van Dyke Road	Van Dyke Road	Ramblewood Rd	Ramblewood Rd	TPC Blvd	Blvd
	Maintaining Ago	ency	Turnpike	Turnpike	Turnpike	Turnpike	Turnpike	Turnpike	Turnpike	Turnpike	Turnpike
0.00	Date of Inspection	Report	3/23/2022	3/23/2022	3/21/2022	3/1/2022	3/1/2022	3/1/2022	3/1/2022	3/10/2022	3/10/2022
-	Year of Construction	Original	1994	1994	1999	2000	2000	2000	2000	2000	2000
	rear or construction	Widening	2018	2018			*	-		-	
		Deck	7	7	7	7	8	8	8	7	7
ı		Superstructure	8	7	7	6	6	. 7	8	7	7
l	Inspection Ratings	Substructure	7	8	7	7	7	7	7	7	7
l		Sufficiency	97.9	97.9	85	98.3	99	98.3	98.3	98.3	98.3
l .		Health Index	99.19	98.18	96.09	99.57	99.48	99.18	99.03	98.71	98.76
	Land Davison	Inventory	1	1	1,06	1.1	1.1	1.02	1.02	1.2	1.2
	Load Ratings	Operating	1.25	1.25	1.78	1.85	1.85	1.33	1.33	1.32	1.32
	Bridge Width (out	ot out)	71'-1"	71'-1"	47'-1"	43'-1"	43'-1"	47'-1"	47'-1"	43'-1"	43'-1"
	Number of Lar	nes	4	4	2	2	2	2	2	2	2
	Ch. Li. Mariel	Inside	10'	10'	10'	6'	6'	10'	10'	6'	6'
	Shoulder Widths	Outside	10'	10'	10'	10'	10'	10'	10'	10'	10'
	Bridge Lengt	h	140'-9.125"	140-9.125"	377'-5.875"	154'-10.5"	154'-10.5"	72'-5.5"	72'-5.5"	128'-7"	128'-7"
Т	797-111077		38.5'	38.5'		.41:					
			63.76'	63.76'	210.77'	154.875	154.875	72.458'	72,458'	128.58	128.58
1	Span Configuration		38.5'	38.5'	166.72						
	Skew Angle (Des	Skew Angle (Degree)		2	50	18	18	18	18	5	5
		Length of Curve	1150'	1150'	1500'	1800'	1800'	1600'	1600'	1100'	1100'
	Vertical Alignment	Grade In	3%	3%	2.965%	2.530%	2.530%	2.416%	2.416%	1.608%	1.608%
		Grade Out	-3%	-3%	-2.9011%	-2.699%	-2.699%	-2.298%	-2.298%	-1.847%	-1.847%
	Vertical Cleara	nce	16.83	17.83	16.63'	16.33'	18.8'	16.64'	20.83'	16.5'	16.08'
	Horizontal Alignment	Tanget/Curve	Tangent	Tangent	Curved	Curved	Curved	Curved	Curved	Tangent	Tangent
$\overline{}$	PART PROPERTY OF THE PART PROPERTY OF THE PART PROPERTY OF THE PART PART PART PART PART PART PART PART	Distance	20'	20'	12.3'	31.9'	36.75	22'	22'	24.6'	23'
	Horizontal Clearance	Pier Protection	No	No	Yes	NA	NA	NA	NA	NA	NA
	Ashpalt Overlay	(Y/N)	No	No	No	No	No	No	No	No	No
		Neikuni	AASHTO Type II &	AASHTO Type II &		Chorded Steel	Chorded Steel	AAHSTO Type III	AASHTO Type III	AASHTO Type VI	AASHTO Type V
	Superstructure 1	Гуре	III	III	Steel Plate Girder	Plate Girder	Plate Girder	Beams	Beams	Beams	Beams
		+6dan	EB-RC Caps; Pier-	EB-RC Caps; Pier-	EB-RC Caps; Pier-			191-1900000			
1			Multi-Column RC	Multi-Column RC	Multi-Column RC	RC Caps	RC Caps	RC Caps	RC Caps	RC Caps	RC Caps
l	Substructure T	vpe	Bent	Bent	Bent	- 50		100	1/1		
$\vdash$			Orig 18" PC/PS	Orig 18" PC/PS		3	8	*			
l			Concrete Piles	Concrete Piles	18" PC/PS	18" PC/PS	18" PC/PS	18" PC/PS	18" PC/PS	18" PC/PS	18" PC/PS
			Widen-Steel HP	Widen-Steel HP	Concrete Piles	Concrete Piles	Concrete Piles	Concrete Piles	Concrete Piles	Concrete Piles	Concrete Pile
l	Foundation Ty	pe	14x89 Piles	14x89 Piles	- 201101 010 1 1100		00.707.010.7.1100				
H	Design Vehic	ALC: N	HL-93	HL-93	HL-93	HS 20-44	HS 20-44	HS 20-44	HS 20-44	HS 20-44	HS 20-44
						Widening to Incide	Widening to incide	Widening to inside	Wildening to incld	Replacement -	Replacement
1						and outside.	and outside,	and outside.	and outside.		
1			No Changes	No Changes	No Changes		connect the			Vertical profile	Vertical profile
1						connect the		connect the	connect the	upgraded to meet	upgraded to me
1	Proposed Improve	ments	l .			existing bridges	existing bridges	existing bridges	existing bridges	current standards	current standar

Table 2-21: Existing Bridge Structures (Continued)

	Bridge Numbe	er	100632	100633	140069	140070	140072	140073	140074	140075	140076
	Bridge Tech Memo	Section	3,5	3.5	3.6	3.6	3.7	3.7	3.8	3.8	3.9
	Milepost		16.3	16.3	17.9	17.9	18.7	18.7	20.5	20.5	22
Location	Roadway Intersec	ction	NB SR 589 over Lutz Lake Fern Rd.	SB SR 589 over Lutz Lake Fern Rd.	NB SR 589 over Anclote River	SB SR 589 over Anclote River	NB SR 589 over SR 54	SB SR 589 over SR 54	NB SR 589 over Sandy Branch River	SB SR 589 over Sandy Branch River	NB SR 589 over Anclote River
$\vdash$	Maintaining Age	ency	Turnpike	Turnpike	Turnpike	Turnpike	Turnpike	Turnpike	Turnpike	Turnpike	Turnpike
	Date of Inspection I		3/10/2022	3/10/2022	6/7/2022	6/7/2022	6/7/2022	6/7/2022	6/7/2022	6/7/2022	6/6/2022
$\vdash$		Original	2000	2000	1999	1999	1999	1999	2000	2000	2000
	Year of Construction	Widening					-				
Г		Deck	7	7	7	7	7	7	7	7	7
1		Superstructure	7	7	8	8	7	8	8	7	8
l	Inspection Ratings	Substructure	7	7	7	7	7	8	7	7	7
1		Sufficiency	98.3	98.3	97	97	100	100	98.8	98.8	98.8
1		Health Index	99.05	98.95	97.2	97.57	99.57	99.86	97.35	97.13	97.04
	1. 14.0	Inventory	1.025	1.025	0.9167	0.9167	1.002	1.002	1.11	1	1.194
ı	Load Ratings	Operating	1.205	1.205	1.347	1.186	1.169	1.169	1.805	1.583	1.944
1	Bridge Width (out o		59'-7"	59'-7"	42'-1"	55'-1.5"	42"-1"	42'-1"	42'-1"	55'-1.5"	42'-1"
$\vdash$	Number of Lan		3	3	2	2	2	2	2	2	2
$\vdash$	1001 (864: 0000006)	Inside	10'-6"	10'-6"	6'	6'	6'	6'	6'	6'	6'
1	Shoulder Widths	Outside	10'	10'	10'	10'	10'	10'	10'	10'	10'
Н	Bridge Length		163'-2.75"	163'-2.75"	336'-0"	336'-0"	187'-6.125"	187'-6.125"	240'-0"	240'-0"	845'-0"
Н			78'-7"	78'-7"		0.220.00	93'-9.5"	93'-9.5"	-		-
1	Span Configuration		84'-7.75"	84'-7.75"	7 spans @ 48'-0"	7 spans @ 48'-0"	93'-8.625"	93'-8.625"	4 Spans @ 60'-0"	4 Spans @ 60'-0"	13 Spans @ 65'-0
$\vdash$	Skew Angle (Degree)		0	0	35	35	4	4	0	0	0
$\vdash$	0	Length of Curve	1800'	1800'	1000'	1000'	2250'	2250'	1000'	1000'	500'
1	A TALL TO THE PART OF THE PROPERTY OF THE PART OF THE	Grade In	2.23%	2.23%	0.934%	0.934%	2.184%	2.184%	0.90%	0.90%	0.500%
1		Grade Out	-2.61%	-2.61%	-0.682%	-0.682%	2.210%	2.210%	-0.90%	-0.90%	-0.452%
$\vdash$	Vertical Clearan	The same of the sa	21.72'	16.75	6'-2"	6'-2"	16.81'	18.4'	8.4'	8.4'	9.1'
$\vdash$	Horizontal Alignment	Tanget/Curve	Curve	Curve	Tangent	Tangent	Curved	Curved	Tangent	Tangent	Tangent
	15 W	Distance	18'	18'	NA NA	NA	22.4'	22.1'	NA NA	NA NA	NA
L	Horizontal Clearance	Pier Protection	No	No	NA	NA	No	No	NA	NA	NA
$\vdash$	Ashpalt Overlay (	- The second sec	No	No	No	No	No	No	No	No	No
	Superstructure T	23 - 25 - 25 - 25 - 25 - 25 - 25 - 25 -	AASHTO Type III Beams	AASHTO Type III Beams	AASHTO Type II Beams	AASHTO Type II Beams	AASHTO Type IV Beams	AASHTO Type IV Beams	AASHTO Type III Beams	AASHTO Type III Beams	AASHTO Type II Beams
	Substructure Ty		EB-RC Caps; Pier- Multi-Column RC Bent	EB-RC Caps; Pier- Multi-Column RC Bent	EB & IB - RC Caps	EB & IB - RC Caps	EB-RC Caps; Pier- Multi-Column RC Bent	EB-RC Caps; Pier- Multi-Column RC Bent	EB & IB - RC Caps	EB & IB - RC Caps	EB & IB - RC Cap
$\vdash$			18" PC/PS	18" PC/PS	24" PC/PS	24" PC/PS	24" PC/PS	24" PC/PS	24" PC/PS	24" PC/PS	24" PC/PS
1	Foundation Tvi	Foundation Type		Concrete Piles	Concrete Piles	Concrete Piles	Concrete Piles	Concrete Piles	Concrete Piles	Concrete Piles	Concrete Piles
	Design Vehicle		Concrete Piles HS 20-44	HS 20-44	HS 20-44	HS 20-44	HS 20-44	HS 20-44	HS 20-44	HS 20-44	HS-20-44
	Proposed Improve	ments	Replacement - Cross slope changed from 6.1% to 7.6%	Replacement - VC results in 1.824' drop at 7.6% cross slope - existing cross slop 6.1%	Widening to inside and outside- Connect the two bridges	Widening to inside and outside- Connect the two bridges	Widening to inside and outside	Widening to inside and outside	Widening to inside and outside	Widening to inside and outside	Widening to insi - Add barrier ra retrofit on outsid barrier to remai

**Table 2-21: Existing Bridge Structures (Continued)** 

$\neg$	Bridge Number		140077	140089	140090	140078	140079	140080	140081	140082	140083
	Bridge Tech Memo Se		3.9	3.10	3.10	3.11	3.11	3.12	3.12	3.13	3.13
	Milepost		22	25.2	25.2	25.8	25.8	26.9	26.9	28.5	28.5
	Roadway Intersecti	ion	SB SR 589 over Anclate River	NB SR 589 over Ridge Road	SB SR 589 over Ridge Road	NB SR S89 over Five Mile Creek	SB SR 589 over Five Mile Creek	NB SR 589 over Pithlachascotee River	SB SR 589 over Pithlachascotee River	NB SR 589 over SR 52	SB SR 589 over 5
$\vdash$	Maintaining Agend	CV	Turnpike	Turnpike	Turnpike	Turnpike	Turnpike	Turnpike	Turnpike	Turngike	Turnpike
	Date of Inspection Re		6/6/2022	6/2/2022	6/2/2022	6/2/2022	6/2/2022	5/3/2022	5/3/2022	6/1/2022	6/1/2022
		Original	2000	2000	2000	2000	2000	2000	2000	2000	2000
_	Year of Construction	Widening						0.2		-	
		Deck	7	7	7	7	7	7	7	8	7
		Superstructure	8	7	7	8	7	8	8	7	7
	Insecption Ratings	Substructure	7	7	7	7	7	7	7	7	7
	111000011111111111111111111111111111111	Sufficiency	98.8	99.2	94.2	99.2	99.2	98.8	98.7	100	100
		Health Index	96.89	99.55	99.47	98.61	99.44	96.46	97.64	99.72	99.61
-		Inventory	1.138	1.055	1.055	1.23	0.986	1.23	0.986	1.05	1.05
1	Load Ratings	Operating	1.833	1.694	1.694	1.55	1.277	1.552	1.27	1.75	1.75
+	Bridge Width (out ot		55'-1.5"	42'-1"	42'-1"	42'-1"	55'-1.5"	42'-1"	55'-1.5"	42'-1"	42'-1"
$\vdash$	Number of Lanes		2	2	2	2	2	2	2	2	2
$\vdash$	Number of Lames	Inside	6'	6'	6'	6'	6'	6'	6'	6'	6'
П	Shoulder Widths								10'		
-	Haldes Farant	Outside	10'	10'	10'	10'	10'	10'		10'	10'
-	Bridge Length		845'-0"	21,21-0"	212'-0"	594'-4" 66'-1"	594'-4" 66'-1"	528'-4" 66'-1"	528'-4" 66'-1"	177'-1"	177'-1"
	Span Configuratio		13 Spans @ 65'-0*	104'-0" 108'-0"	104'-0" 108'-0"	2 Spans @ 66'-0" 2 spans @ 66'-1" 3 Spans @ 66'-0" 66'-1"	2 Spans @ 66'-0" 2 spans @ 66'-1" 3 Spans @ 66'-0" 66'-1"	2 Spans@ 66'-0" 2 Spans @ 66'-1" 2 Spans @ 66'-0" 66'-1"	2 Spans@ 66'-0" 2 Spans @ 66'-1" 2 Spans @ 66'-0" 66'-1"	177'-1"	177'-1"
	Skew Angle		0	18	18	0	0	0	0	5	5
1	Sive w Filliple	Length of Curve	500'	2000'	2000'	1000'	1000*	1000'	1000'	2000'	2000'
	Vertical Alignment	Grade In	0.500%	2.50%	2.50%	1.00%	1.00%	1.00%	1.00%	2.50%	2.50%
8		Grade Out	-0.452%	-2.50%	-2.50%	-1.00%	-1.00%	-1.00%	-1.00%	-2.50%	-2.50%
	Vertical Clearance		8.7'	17.13	17.45'	8'-0"	8'-0"	8'-0"	8'-0"	16.4'	16.83'
-	Horizontal Alignment	Tanget/Curve	Tangent	Tangent	Tangent	Tangent	Tangent	Tangent	Tangent	Tangent	Tangent
-	Horizontal Alignment	Distance	NA NA	28.49	27.6'	NA	NA NA	NA	NA	35,4°	35'
	Horizontal Clearance	Pier Protection	NA NA	Yes	Yes	NA NA	NA NA	NA NA	NA NA	NA	NA NA
F	Ashasla Ocadas (M		No							No.	No
H	Ashpalt Overlay (Y/	(N)	AASHTO Type III	No AASHTO Type V	No AASHTO Type V	No AASHTO Type III	No AASHTO Type III	No AASHTO Type III	No AASHTO Type III	Cast Tooling States III	1980 - 2500 O F 580
4	Superstructure Typ	pe	Beams	Beams	Beams	Beams	Beams	Beams	Beams	Steel Plate Girder	Steel Plate Giro
2	Substructure Typ		EB & IB - RC Caps	EB-RC Caps; Pier- Multi-Column RC Bent	EB-RC Caps; Pier- Multi-Column RC Bent	EB & IB - RC Caps	EB & IB - RC Caps	EB & IB - RC Caps	EB & IB - RC Caps	RC Caps	RC Caps
	Foundation Type	•	24" PC/PS Concrete Piles	18" PC/PS Concrete Piles	18" PC/PS Concrete Piles	18" PC/PS Concrete Test Piles & 24" PC/PS Concrete Production Piles	18" PC/PS Concrete Test Piles & 24" PC/PS Concrete Production Piles	18" PC/PS Concrete Piles	18" PC/PS Concrete Piles	18" PC/PS Concrete Piles	18" PC/PS Concrete Pile
	Design Vehicle		HS-20-44	HS-20	HS-20	HS-20-44	HS-20-44	HS-20-44	HS-20-44	HS-20-44	HS-20-44
Г	Utilities	Adjacent Attached									
	Proposed Improvem	0.5	Widneing to inside Add Tubular Railing Retrofit on outside barrier	Widening to inside Add Tubular Railing Retrofit on outside barrier	Widening to inside Add Tubular Railing Retrofit on outside barrier	Widening to inside Add Tubular Railing Retrofit on outside barrier	Widneing to inside Add Tubular Railing Retrofit on outside barrier	Widneing to inside Add Tubular Railing Retrofit on outside barrier	Widneing to inside Add Tubular Railing Retrofit on outside barrier	Widening to inside Add tubular railing retrofit to outside barrier	Widening to ins Add tubular rall retrofit to outs barrier

## 2.4 Existing Environmental Features

Environmental data was collected through desktop review of various FDOT screening tools and field reviews conducted on December 12-13, 2023, and September 5, 2024. The study area for this project includes the following predominant land use: residential, commercial, institutional, recreational and industrial. A total of 19 upland and 13 wetland and surface water habitat types were found within the project study area. Wetland and surface water communities comprise approximately 1,306 acres (35 percent) of the project study area and is primarily comprised of reservoirs, freshwater marshes, and cypress forests, as well as several lakes, bottomlands, wet prairies, and hydric hardwood and coniferous forests. The 13 wetland and surface water habitat types included 10 wetland types and 3 surface water and other surface water types. The wetland types were classified as wetland hardwood forests, stream and lake swamp bottomlands, wetland coniferous forests, cypress domes, wetland forested mixed, vegetated non-forested wetlands, freshwater marshes, wet prairies, and emergent aquatic vegetation. The surface waters and other surface waters included ditches, lakes, reservoirs, and intermittent ponds. Upland communities comprise approximately 2,422 acres (65 percent) of the project study area and generally includes residential units, roads and highways, commercial and industrial land use, institutional land use. recreation areas, pastureland, scrub and brushland, hardwood and coniferous forests, tree plantations, pine flatwoods, and open lands.

The project is located within the USFWS Consultation Area (CA) of the Florida scrub-jay (Aphelocoma coerulescens), and within the Core Foraging Area (CFA) of 11 wood stork (Mycteria americana) colonies. Based on the information collected and field reviews, a list of protected species with the potential to occur within the project study area was generated. A total of 35 federal or state listed species, one federally proposed endangered species, one candidate species for federal listing, and one species with other protection requirements that have the potential for occurrence within the project study area. These protected species include 19 flora, six reptilian, 10 avian, two mammalian, and one insect species.

Additional information on the existing environmental, the potential impacts of the preferred alternative and mitigation efforts is documented under a separate cover in the *Natural Resources Evaluation Report* (NRE).

## 3.0 FUTURE CONDITIONS

## 3.1 Future Conditions Considerations

Future daily forecast, design hour volumes and lane requirements were evaluated to provide an estimated timeline for the onset of capacity deficiencies along the Suncoast Parkway mainline and ramp roadways within the study limits. The mainline capacity evaluation was completed using the TSM v3.1 and post model refinement. The National Cooperative Highway Research Program (NCHRP) 255 and 765 forecast procedure and the 2023 FDOT Quality and Level of Service (LOS) Handbook target volumes were utilized to further refine future estimates. The validation year for the TSM v3.1 was 2019 and the future year models used for the SR 589 were developed for 2030 and for the 2050 horizon year.

To meet LOS D, the analysis shows that the Suncoast Parkway mainline will require three lanes of travel in each direction from south of Van Dyke Road to Ridge Road interchanges by opening year 2030. Three lanes will be required between Ridge Road and SR 52 interchanges by 2035. The analysis also shows a future need for four lanes of travel per direction on SR 589 within the study limits. Each segment from south of Van Dyke Rd to SR 54 requires a maximum of four lanes per direction through the 2050 design year, the year of need ranges from 2042 to 2044. The earliest onset for the four-lane need will be in 2042, between Van Dyke Road and W Lutz Lake Fern Road interchanges.

The results from the ramp analysis confirmed that most of the existing ramp roadways within the study limits will need to be modified to add an additional lane through design year 2050, except for the ramps to and from the south at SR 54 and SR 52, which will need two lanes by 2030 and 2048, respectively. The new ramp being proposed at Rangeland Boulevard is also expected to provide relief to the congested adjacent interchanges. Additional details on the mainline and ramps lane requirements are documented in the *Project Traffic Forecast Memorandum* for this project.

#### **Future Land Use**

Hillsborough and Pasco County's Future Land Use (FLU) data located within a quarter mile of the Suncoast Parkway within the project limits was collected, mapped, and analyzed to determine the corridor's future land use composition and is summarized in **Table 3-1**. The Future Land Use Map provides the planned land uses throughout the corridor as shown in **Figure 3-1**.

**Table 3-1: Future Land Use Composition** 

County	Future Land Use	Percentage
	Agricultural	0.63%
Hillshorough	Residential	19.68%
Hillsborough	Natural Preservation	0.30%
	Public/Quasi Public	2.39%
	Agricultural	4.66%
	Residential	25.5%
	Conservation Lands	15.17%
	Employment Center	0.39%
Pasco	Industrial-Light	3.57%
	Planned Development	22%
	Major Recreation/Open Space	0.31%
	Retail/Office	1.73
	Mixed Uses	3.67%

The corridor's future land use closely mirrors the corridor's existing land use within both Hillsborough and Pasco counties. The corridor's land uses within the study limits remain predominantly residential (46%) followed by planned development (22%). Conservation lands accounts for approximately 15.17% while agricultural accounts for 5.29%. Industrial, public/quasi-public, mixed uses, retail and major recreation/open space accounts for the remainder of the corridor.

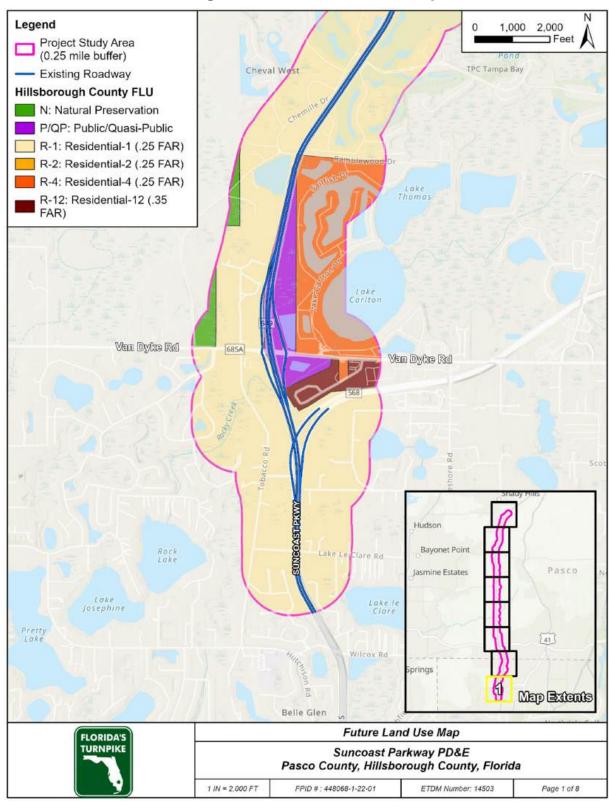


Figure 3-1: Future Land Use Map

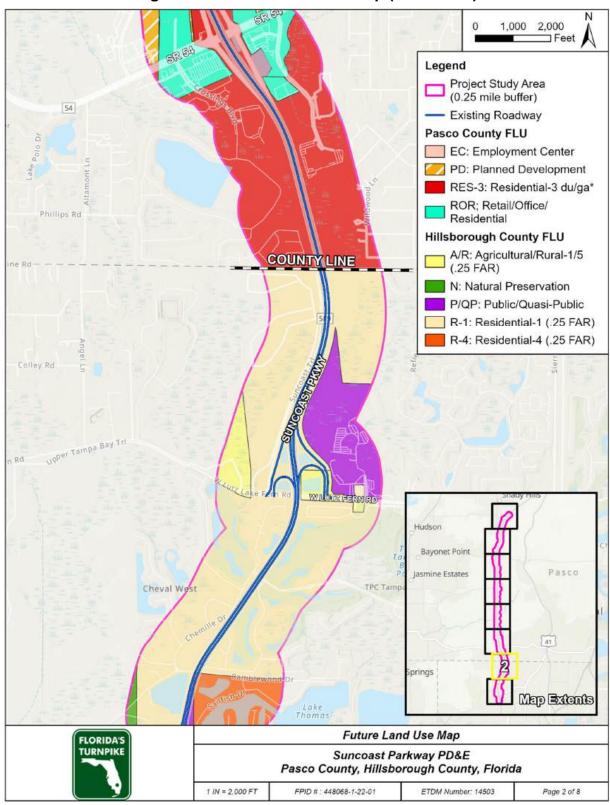


Figure 3-1: Future Land Use Map (Continued)

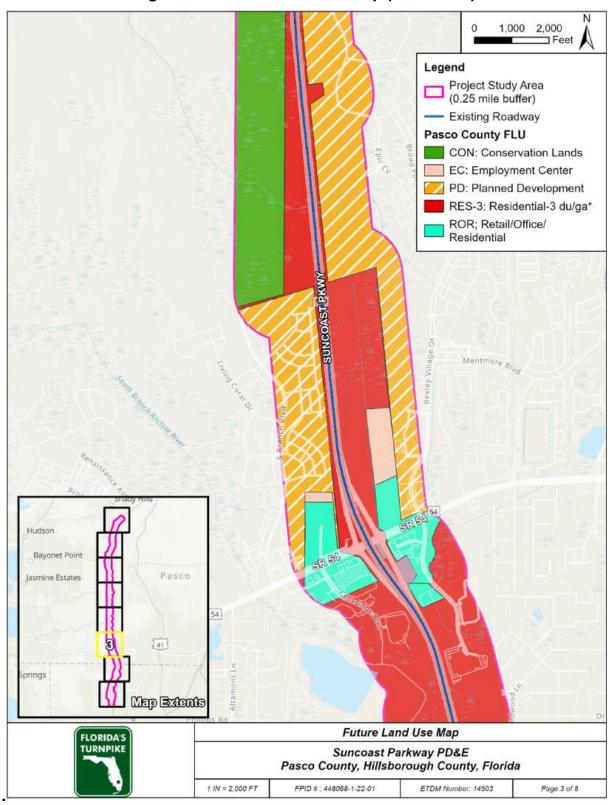


Figure 3-1: Future Land Use Map (Continued)

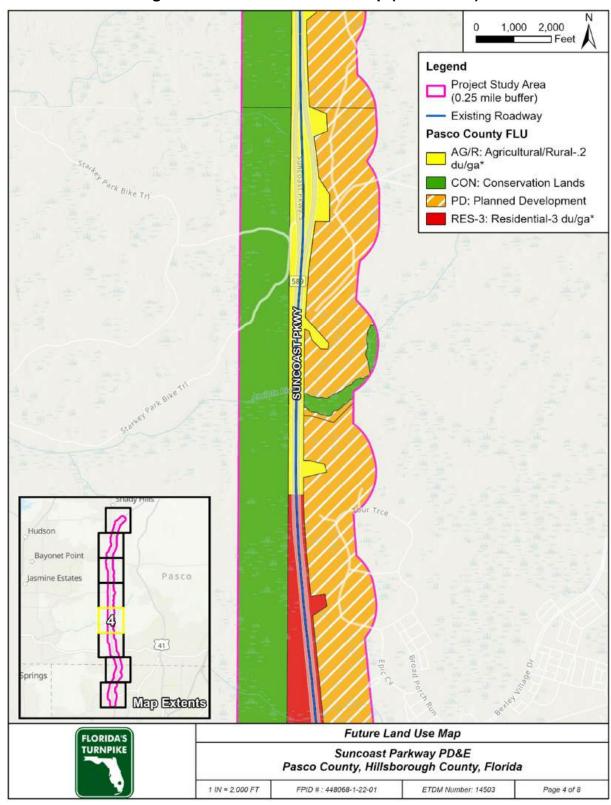


Figure 3-1: Future Land Use Map (Continued)

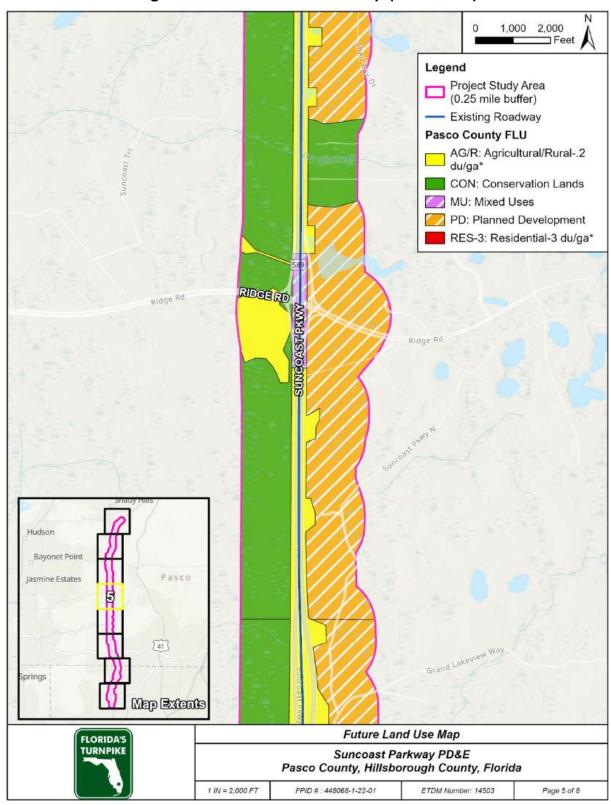


Figure 3-1: Future Land Use Map (Continued)

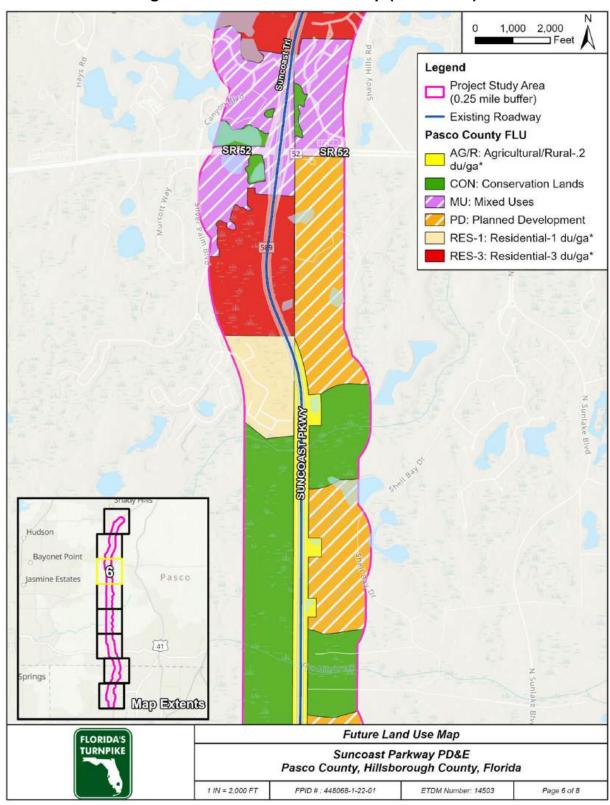


Figure 3-1: Future Land Use Map (Continued)

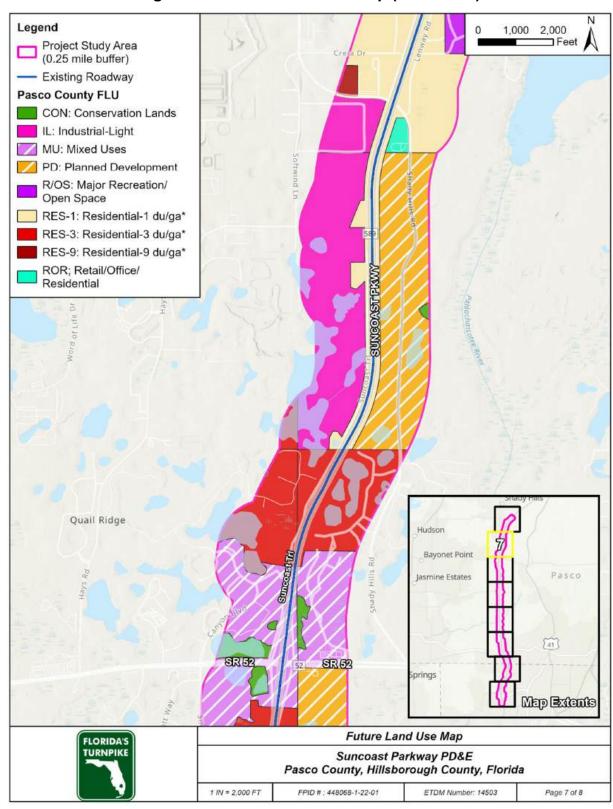


Figure 3-1: Future Land Use Map (Continued)

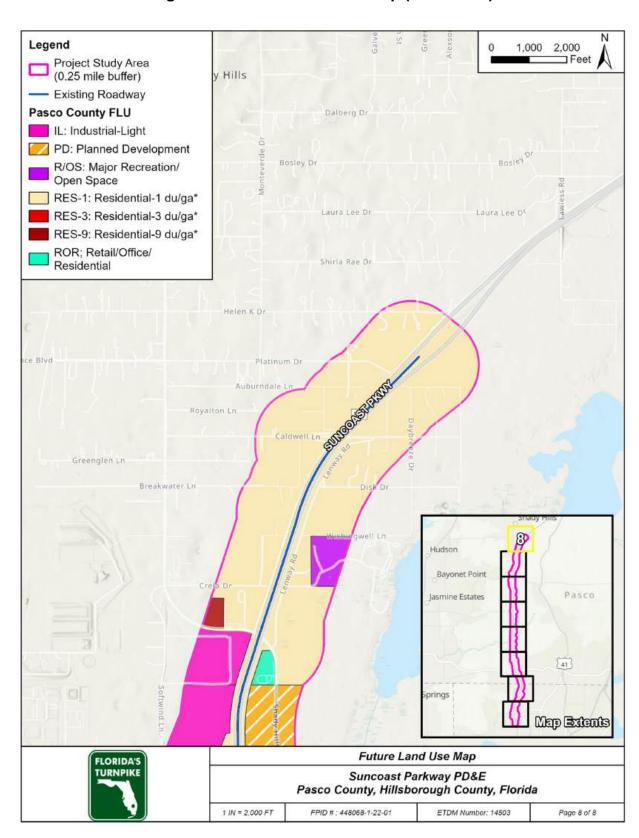


Figure 3-1: Future Land Use Map (Continued)

## 4.0 DESIGN CONTROLS & CRITERIA

Design standards are well defined for Florida's limited access facilities. Design standards and criteria provide the framework for evaluating the current geometry, existing deficiencies, and future design to meet the mobility needs of the corridor. Specifically, they help establish the roadway typical section, cross sections, and acceptable interchange configurations. Roadway design elements and applicable design standards considered in the design of the proposed improvements for the project corridor is summarized in this section.

### 4.1 DESIGN CONTROLS

Roadway context classification provides information to planners and engineers of the type of users and the intensity of the use based on the existing or future land use characteristics. The design criteria and standards are based on design parameters outlined in 2018 American Association of State Highway Transportation Officials (AASHTO) - *A Policy on Geometric Design of Highways and Streets*, FDOT Design Manual (FDM) (FDOT, 2022), FDOT Standard Plans for Road and Bridge Construction 2022, Turnpike Design Handbook (TDH) 2022.

## 4.2 DESIGN CRITERIA

The design criteria and standards are based on design parameters outlined in the 2018 American Association of State Highway Transportation Officials (AASHTO) - A Policy on Geometric Design of Highways and Streets, FDOT Design Manual (FDM) (FDOT, 2023), and FDOT Standard Plans for Road and Bridge Construction 2023. **Table 4-1** lists the design criteria established for the project.

Table 4-1: Design Control Criteria

	Roadway Design Criteria							
Design Element	Facility Type	Criteria	Reference	Section				
Design Speed (DS)/Po	sted Speed							
	Suncoast Parkway (Mainline)	70 mph						
	Suncoast Parkway (Ramps)	30-50 mph						
	Veterans Expressway	70 mph						
	Van Dyke Rd.	45 mph						
	W Lutz Lake Fern Rd.	45 mph						
	SR 54	45 mph						
	Ridge Rd.	45 mph						
	SR 52	45 mph						
Borders			T					
		94 ft. from outside edge of travel way to R/W						
	Freeways / Ramps	10 ft min. from the back of a barrier or retaining wall if maintenance vehicles have sufficient access from public R/W	FDM	Sec. 211.6 & 211.6.1				
	Urban General	12 ft. (Curbed; DS = 25- 40 mph) 14 ft. (Curbed; DS = 45 mph) 33 ft. (Flush Shoulder; DS = 25-45 mph)	FDM	Table 210.7.1				
Clear Zone Width								
	Travel lane and multi-lane ramps	36 ft. (DS ≥ 60mph)						
	, and the second	24 ft. (DS ≥ 60 mph)						
	Aux. Lanes & Single	18 ft. (DS = 55 mph)	FDM	Table 215.2.1				
	Lane Ramps	14 ft. (DS = 45-50 mph)	1					
		10 ft. (DS = 30-40 mph)						

	Roadwa	ay Design Criteria		
Design Element	Facility Type	Criteria	Reference	Section
Horizontal Clearance				
Conventional Light Poles	High Speed Curbed and Flush Shoulder	20 ft. from Travel Lane / 14 feet from Auxiliary Lane		
High Mast Light Poles	Roadway	Outside of Clear zone		
Poles (Light, ITS		4.0 ft. (DS = 40-45 mph)	FDM	Table 215.2.1
Signals)	Curbed Roadways	1.5 ft. (DS = 25-35 mph)		
Trees	Curbed Roadways	4.0 ft. (DS = 40-45 mph)		
riees		1.5 ft. (DS = 25-35 mph)		
Travel Lane Widths				
	LA Facilities	12 ft.	FDM	Sec. 211.2
	D	15 ft. min. one-lane	FDM	0 044.0.4
	Ramps	24 ft. min. two-lane	FDM	Sec. 211.2.1
	Ramp Width - Turning Roadways	Based on Curve Radius and Vehicle Type	FDM	Table 211.2.1
		10 ft. (DS = 25-35 mph)		
	Urban General	11 ft. (DS = 40-45 mph)	FDM	Table 210.2.1
		12 ft. (DS ≥ 50 mph)		
Auxiliary Lane				
	Limited Access Facilities	12 ft.	FDM	Sec. 211.2
Width	Urban General	10 ft. (DS = 25-35 mph)	FDM	Table 210.2.1
	Orban General	11 ft. (DS = 40-45 mph) 12 ft. (DS ≥ 50 mph)		
	Min. Acceleration	Based on design speed	AASHTO	Table 10-110
Length	Min. Deceleration		AASHTO	Table 10-115
Longui	Min. Separation Distance	1500 ft.	FDM	Sec. 211.12.2
Cross Slope	Limited Access Facilities	Same as adjacent lane or greater	FDM	Sec. 211.2.2
Aux. Lane Drop	Within an Interchange	500-1500 ft.	AASHTO	Figure 10-52D
	Beyond an Interchange	2,500 ft.	AASHTO	Figure 10-52E

	Roadwa	ay Design Criteria		
Design Element	Facility Type	Criteria	Reference	Section
Shoulders				
	General travel lanes 3-lane or more outside Express lanes	12 ft. full / 10 ft. paved  12 ft. fully paved		
Width	Aux Lane  1 - Lane Ramps	12 ft. full / 10 ft. paved 6 ft. full Outside: 4 ft. paved / median: 2 ft. paved Outside: 12 ft. full / 10 ft.	FDM	Table 211.4.1
	2 - Lane Ramps	paved  Median: 8 ft. full / 4 ft. paved		
Shoulder Rocking		0.03 - 0.06 in tangent sections	FDM	Sec 211.4.2.1
Cross Slopes				
Max. No. of Lanes Sloped in One Direction		5 lanes (DS = 70 mph)	FDM	Figure 210.2.1
	Bridges	0.02	FDM	Sec. 260.4
Travel Lanes and	Aux. lane	Same as adjacent lane or greater	FDM	Sec. 211.2.2
Shoulder Slopes	Shoulders	0.06 outside / 0.05 median (0.06 inside if lane slopes toward median)	FDM	Sec. 210.4.2
Max. Algebraic	Between Through Lanes	0.04	FDM	Sec. 211.2.2
Difference in Cross Slope	Turning Roadways Terminals	5.0% (DS ≥ 35 mph)	FDM	Table 211.2.2
Roadside Slopes				
Front Slope	Flush Shoulder and High Speed Curbed	1:6 to edge of Clear Zone, then 1:4 (5-10 ft. fill height) 1:6 to edge of Clear Zone, then 1:3 (10-20 ft. fill height) 1:2 with Guard Rail (>20 ft. fill height).	FDM	Table 215.2.3
Transverse Slopes	Freeway & Interstate	1:10 or flatter	FDM	Table 215.2.3
·	All Others	1:4		
Horizontal Curves  Max. deflection without	Limited Access	0° 45' 00" (DS ≥ 45 mph)	FDM	Sec. 211.7.1
horizontal curve	Facilities	0 40 00 (D3 2 40 IIIPII)	LDIN	360. 211.7.1

Roadway Design Criteria								
Design Element	Facility Type	Criteria	Reference	Section				
	Arterial	2° 00' 00" (DS ≤ 40 mph)	FDM	Sec. 210.8.1				
Min. Length of Curve	Limited Access Facilities & Ramps	2100 ft. Desirable / 1050 ft. Minimum (DS = 70 mph)	FDM	Table 211.7.1				
Superelevation								
Max. Super Elevation Rate Min. Radius for e = NC Min. Radius for e = RC	High Speed Roadways	e <sub>max</sub> = .10 14,714 ft. (DS = 70 mph) 10,955 ft. (DS = 70 mph)	FDM	Table 210.9.1				
Min. length of full super within horizontal curve		200 ft. (DS ≥ 50 mph) 100 ft. (DS ≤ 45 mph)	FDM	Sec. 210.9				
Superelevation transition slope rates	High Speed Roadways  Low Speed Roadways	1:190 (DS = 65-70 mph; 4- lanes or more) 1:170 (DS = 55-60 mph; 4- lanes or more) 1:125 (DS = 40 mph)	FDM	Table 210.9.3				
		1:150 (DS = 45 mph)						
Superelevation transition slope location	Reverse Curves	80% of the transition for each curve on the tangent (50% max)	FDM	Sec. 210.9.1				
Sight Distance								
Min. Stopping Sight	Interstate	721 ft. (DS = 70 mph, Grade ≤ 2%)	FDM	Table 211.10.1				
Distance	Ramps	631 ft. (DS = 70 mph, Grade ≤ 2%)	FDM	Table 211.10.2				
Roadway Transitions								
Merging Taper Length	Limited Access Facility	L = WS for DS $\geq$ 45 mph or L = WS^2 /60 for DS $\leq$ 40 mph	FDM	Sec. 211.2.4				
INCIGING Paper Longin	Arterial	(L = length of taper; W = width of lateral transition in feet; S = speed in mph)	FDM	Sec. 210.2.5				
Shifting Taper Length	Limited Access Facility	L/2 = WS/2 (L = length of taper; W = width of lateral transition in feet; S = speed in mph)	FDM	Sec. 211.2.4				
·	Arterial		FDM	Sec. 210.2.5				
0	Limited Access Facility	L/3 = WS/3	FDM	Sec. 211.2.4				
Shoulder Taper Length	Arterial	(L = length of taper; W = width of lateral transition in feet; S = speed in mph)	FDM	Sec. 210.2.5				
Deflection Angle	Exit Ramp	±4°	SP	000-525				

	Roadway I	Design Criteria		
Design Element	Facility Type	Criteria	Reference	Section
Interchange and Ram	p Spacing			
Access Management	Area Type 2	1 mile	FDM	Table 201.4.1
	On – On / Off - Off	1,000 ft.		
	Off - On	500 ft.		
Min. distance from gore nose to adjacent ramp	Turning roadways	800 ft. (System interchange) 600 ft. (Service interchange)	FDM	Figure 211.12.1
	On - Off	Varies (See figure 211.12.1)		
Vertical Curves				
	Minimum K value crest	506 (Interstate) / 401 (Ramps) (DS = 70 mph)	FDM	Table 211.9.2
	Minimum K value sag	206 (Interstate DS = 70 mph)	FDM	Table 211.9.2
	System Interchange K value	Value for higher system ramp speed	FDM	Table 211.9.2
	Mainline min. length:	Sag = 800 ft.  Crest (Open Highway)	FDM	Table 211.9.3
	Ramp min. length:	= 1,000 ft. Sag = 400 ft. Crest = 500 ft. (DS = 70 mph)	FDM	Table 211.9.3
Grades		7 000 K. (20 = 70 Hipti)		
	LA Facilities 70 MPH design speed	0.03	FDM	Table 211.9.1
	Max. change w/o VC (70 MPH)	0.20%	FDM	Table 210.10.2
Vertical Clearance				
Roadway or Railroad Bridge	Over Arterial or Collector Roadway	16.5 ft. (New Construction) 16.0 ft. (Const. Affecting Exist. Bridges)		
	At bridge deck	14 ft.	FDM	Table 260.6.1
Pedestrian bridge	Over Roadways	17.5 ft. (New Construction) 17.0 ft. (Const. Affecting Exist. Bridges)		
Bridge	Over Water	Drainage: 2 ft. above DHW Navigation: 6 ft. above MHW / NHW / Control Elev.	FDM	Sec. 260.8.1

	Roadway Design Criteria									
Design Element	Facility Type	Criteria	Reference	Section						
Signs	Overhead Sign Structures	17.5 ft. New Sign Structures 17 ft. min. Affecting Existing Structures	FDM	Sec. 210.10.3						
	Dynamic Message Sign (DMS) structures	19.5 ft. New Walk-In Structures								
		19 ft. min. Affecting Existing Structures								
Signals	Span Wires, Mast Arms, or Other	17.5 ft. New Signal Structures  17 ft. min. Affecting Existing Structures								
Design Vehicle										
	Single lane ramps the lane width provided for turning movements	WB-62FL	FDM	Sec. 201.6.2						
	Tandem Trucks facilities	WB-109D	FDM	Sec. 201.6						

### \*\*ABBREVIATIONS:

FDM

FDOT Design Manual, 2025
A Policy on Geometric Design of Highways and Streets - American Association of State Highway and Transportation Officials, 2018
State of Florida Department of Transportation Standard Plans, Fiscal Year 2025 – 2026 **AASHTO** 

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## 5.0 ALTERNATIVES ANALYSIS

## 5.1 NO-BUILD (NO-ACTION) ALTERNATIVE

The No-Build Alternative assumes that the widening of the Suncoast Parkway and associated interchange improvements are not constructed. Only those other projects included in the Hillsborough TPO and Pasco County MPO LRTP Cost Feasible Plans were assumed to be provided to meet the transportation need. The results of the No-Build Alternative analysis formed the basis of the comparative analysis for the Build Alternatives.

The advantages of the No-Build Alternative include:

- No direct or secondary impact to adjacent social, cultural, natural, or physical environments
- No utility impacts
- No expenditure of funds for right-of-way acquisition, design, or construction

The disadvantages of the No-Build Alternative include:

- Does not address vehicular travel demands
- Does not alleviate traffic on the Suncoast Parkway
- Rate of crashes in the study area would likely increase

The No-Build Alternative will remain viable throughout the PD&E Study.

# 5.2 TRANSPORTATION SYSTEMS MANAGEMENT & OPERATIONS (TSM&O) ALTERNATIVE

The TSM&O Alternative considers safety and minor operational improvements to existing facilities that may include additional turn lanes, intersection improvements, traffic signal optimization, ITS technology implementation, and/or pavement marking improvements to enhance safety and mobility. No TSM&O Alternative can fulfill the purpose and need for the project; therefore, no TSM&O options were identified for the study. The primary purpose and need for this project is to relieve current and projected future traffic congestion and enhance safety along the Suncoast Parkway mainline. A TSM&O alternative would only provide short-term operational improvements and not address Year 2050 corridor-wide needs.

## 5.3 MULTI-MODAL ALTERNATIVES

Multi-modal alternatives are comprised of a range of improvements to each of the modal systems (roadway, transit and non-motorized) within a specific study area. The most common are travel demand management and the expansion of current facilities and/or development of new facilities.

The Suncoast Parkway is a limited access facility, therefore, will continue to have no designated pedestrian or bicycle accommodations along the corridor. Access to the Suncoast Trail which runs adjacent to the project corridor will be maintained. The proposed improvements also evaluated the potential to provide safer connections for bicyclists and pedestrians along the cross-streets within the study area.

#### 5.4 BUILD ALTERNATIVES

The objective of this PD&E Study is to evaluate improvements that will address existing and projected operating deficiencies along this section of the Suncoast Parkway. To keep up with the growing traffic demand within the study area, the proposed alternatives were evaluated based on travel demand, capacity, signing, access and right-of-way availability. Evaluation along the Suncoast Parkway was broken out into two segments defined earlier in this report. Segment 1 extends from south of Van Dyke Road to north of SR 54, and Segment 2 extends from north of SR 54 to SR 52. Below is a summary of the alternatives considered by segment and interchange.

## 5.4.1 Mainline - South of Van Dyke Road to North of SR 54

One Build Alternative was developed for this segment. The proposed improvement from south of Van Dyke Road to north of SR 54 includes reconstruction with eight 12-foot-wide travel lanes (four lanes in each direction) separated by a 26-foot-wide median with a barrier wall (**Figure 5-1**).

Figure 5-1: Build Alternative Typical Section – South of Van Dyke Road to North of SR 54

\* Suncoast Trail begins at Lutz Lake Fern Rd

## 5.4.2 Mainline - North of SR 54 to SR 52

One Build Alternative was developed for this segment. The proposed improvement from north of SR 54 to SR 52 includes widening to the inside to include six 12-foot-wide travel lanes (three lanes in each direction) separated by a 40-foot wide median (**Figure 5-2**).

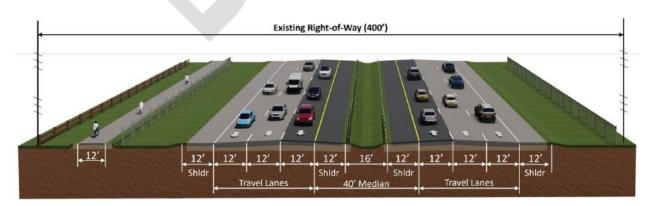


Figure 5-2: Build Alternative Typical Section – North of SR 54 to SR 52

## 5.4.3 Van Dyke Road Interchange

Van Dyke Road is an east-west undivided roadway located in Hillsborough County with one lane in each direction, flushed shoulders, and auxiliary lanes at the interchange ramp terminal approaches. A raised traffic separator is located under the Suncoast Parkway overpass dividing eastbound from westbound vehicular traffic. The existing interchange configuration is a conventional diamond interchange with northbound and southbound on and off ramps connecting Suncoast Parkway traffic with Van Dyke Road. Hillsborough County is currently preparing a study and design plans for the widening of Van Dyke Road to four lanes divided through the interchange.

FDOT's Capacity Analysis at Junctions (CAP-X) tool was used to screen options for the Suncoast Parkway interchange at Van Dyke Road. Three interchange configurations were considered including a partial cloverleaf, single-point, and diverging diamond interchange. The diamond interchange configuration was selected as the preferred build alternative based on its ability to accommodate travel demands, minimal impacts, ease of construction, and anticipated costs. The partial cloverleaf and single-point configurations would operate at a lower volume to capacity (V/C) ratio; however, they would require extensive cost and reconstruction of the existing interchange. Modifying the existing diamond interchange would meet the operational needs for the Design Year.

Proposed modifications to this interchange include the following:

- Adding a second left turn lane from the Suncoast Parkway northbound and southbound off-ramps onto Van Dyke Road
- Extending the right turn lane from the southbound off-ramp to Ramblewood Road
- Adding a shared-use path along the north side of Van Dyke Road between the interchange ramp terminals (Hillsborough County is proposing a shared-use path on the south side)

The Build Alternative for the Van Dyke Road interchange is shown in Figure 5-3.



Figure 5-3: Van Dyke Road Interchange Alternative

## 5.4.4 Lutz Lake Fern Road Interchange

Lutz Lake Fern Road is an east-west connector roadway located in Hillsborough County. It consists of a four-lane divided curbed roadway section with two travel lanes in each direction and auxiliary lanes separated by a raised median within the limits of this study. Outside of the interchange area, beyond the study limits, Lutz Lake Fern Road is a two-lane undivided roadway with flushed shoulders. The existing interchange configuration is a partial cloverleaf interchange with loop ramps located on the north side of Lutz Lake Fern Road.

FDOT's CAP-X tool confirmed that modifying the existing partial cloverleaf interchange would meet the operational needs for the Design Year. One build alternative was evaluated for this interchange. The proposed modifications at this interchange include:

- Adding a second right turn lane from the Suncoast Parkway northbound off-ramp onto westbound Lutz Lake Fern Road
- Adding a second left turn lane from eastbound Lutz Lake Fern Road to the Suncoast Parkway northbound on-ramp
- Extending the storage queue length for all lanes at the Suncoast Parkway southbound offramp
- Extending the storage queue length for the left turn lanes from eastbound Lutz Lake Fern Road to the Suncoast Parkway southbound on-ramp
- Adding of a shared-use path along both side of Lutz Lake Fern Road within the interchange area.

The Build Alternative for the Lutz Lake Fern Road interchange is shown in Figure 5-4.

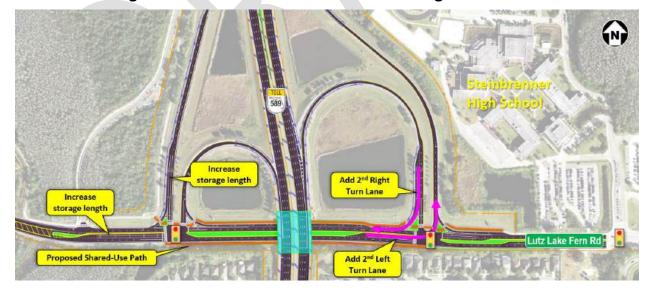


Figure 5-4: Lutz Lake Fern Road Interchange Alternative

### 5.4.5 SR 54 Interchange

SR 54 is an east-west divided roadway located in Pasco County with three lanes in each direction, flush shoulders, and auxiliary lanes at the interchange ramp terminal approaches. A grass median separates east and westbound traffic. The existing interchange configuration is a conventional diamond interchange with northbound and southbound on and off ramps connecting the Suncoast Parkway with SR 54.

A previous study, *Suncoast Parkway – Pasco County Interchange Planning Study*, was completed by the Enterprise in 2019 and identified the need to reconfigure the SR 54 interchange or provide a reliever interchange to maintain acceptable operations beyond 2045. This includes consideration of a TSM&O project, constructed in 2023 by the Enterprise, that added a third left turn lane, and a second right turn lane from the northbound off-ramp. The planning study recommended to further evaluate a diverging diamond and partial cloverleaf interchange option.

During the PD&E Study, FDOT's CAP-X tool was used to screen options for the SR 54 interchange. Two build alternatives were proposed at the SR 54 interchange: a tight diamond interchange and a diverging diamond interchange alternative.

The tight diamond interchange alternative includes the addition of a right turn lane to the northbound off ramp, an additional right and left turn lane to the southbound off ramp, and an additional left turn lane from westbound SR 54 to the southbound on ramp.

Along State Road 54, an additional through lane would be added in the westbound direction beginning at the southbound off ramp, continuing past Crossings Boulevard, and up to South Branch Boulevard. Improvements would also include a shared-use path on both sides within the interchange area.

The Build Alternative for the SR 54 tight diamond interchange option is shown in Figure 5-5.

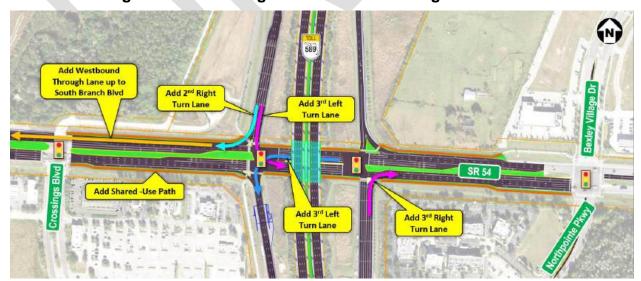


Figure 5-5: SR 54 Tight Diamond Interchange Alternative

The diverging diamond interchange alternative requires the lanes in a diverging diamond to briefly cross over from the right side to the left side of the roadway between ramps. The lanes then change back to the right side of the road. Improvements related to the diverging diamond interchange would include a shared-use path on both sides to accommodate bicyclists and pedestrians. Bicyclists or pedestrians crossing the State Road 54 interchange would follow the crosswalk to a central walkway to access either side of the interchange.

The Build Alternative for the SR 54 diverging diamond interchange option is shown in **Figure 5-6**.



Figure 5-6: SR 54 Diverging Diamond Interchange Alternative

The tight diamond interchange configuration was selected as the Build Alternative for the SR 54 interchange based its ability to accommodate travel demands, minimal impacts, ease of construction, and anticipated costs. The diverging diamond also accommodates travel demands but is more expensive to construct when compared to modifying the tight diamond interchange.

## 5.4.6 Rangeland Boulevard Interchange

Rangeland Boulevard is a planned roadway extension by Pasco County that would begin at the current terminus at Cattle Gap Trail, continue across the Suncoast Parkway about one mile north of SR 54, and tie into the existing roundabout at Bud Bexley Parkway, a distance of approximately 3.4 miles.

Previous studies have identified the feasibility and benefits with providing an interchange at Rangeland Boulevard, if constructed. The PD&E Study for the original construction of the Suncoast Parkway, completed in August 1994, identified an interchange with the Bi-County Expressway. At the time, the Pasco County Expressway Authority was conducting a PD&E Study for a new east-west limited access highway that would follow the current planned route for Rangeland Boulevard. The Bi-County Expressway was never constructed. Instead, Pasco County is now planning to extend Rangeland Boulevard to improve regional mobility and connectivity.

If Rangeland Boulevard is constructed, it becomes a favorable location for a new interchange as it would help relieve traffic at the SR 54 interchange. The *Suncoast Parkway – Pasco County Interchange Planning Study*, completed in 2019, recommended an interchange at Rangeland Boulevard (identified as Tower Road in the report) as it would divert approximately 32% of the traffic from the SR 54 interchange. The 2019 planning study considered three alternatives for a potential interchange at Rangeland Boulevard:

- 1. Collector/distributor (C/D) between SR 54 and Rangeland Boulevard with a tight diamond interchange at Rangeland Boulevard
- 2. Single point urban interchange (SPUI)
- 3. Partial cloverleaf interchange with the southbound on-ramp and northbound off-ramp located on the north side of Rangeland Boulevard

The partial cloverleaf interchange was identified as the preferred alternative in the 2019 Planning Study since it shifts the southbound on-ramp and northbound off-ramp further to the north from SR 54 and thus provides additional distance between the two interchanges. The C/D alternative was eliminated due to the high cost. The report also noted that Pasco County has not programmed funding to the construction of Rangeland Boulevard and that the Enterprise should continue to monitor the funding status.

During the PD&E Study, FDOT's CAP-X tool was used to screen options for the Suncoast Parkway interchange at Rangeland Boulevard. Two interchange configurations were screened. The first option included a partial cloverleaf with the ramp terminal intersections under signal control and the second option included a partial cloverleaf with roundabouts at the ramp terminals. The partial cloverleaf interchange with signalized intersections was selected as the preferred build alternative based on its ability to accommodate travel demands. Ultimately, Pasco County determined the need to provide six lanes on Rangeland Boulevard which would have eliminated the ability to utilize roundabouts. FDOT policy does not allow roundabouts on six lane facilities.

The Build Alternative for the Rangeland Boulevard interchange option is shown in **Figure 5-7.** Construction of the interchange at Rangeland Boulevard requires 6.8 acres of right-of-way in the northeast quadrant of the interchange.

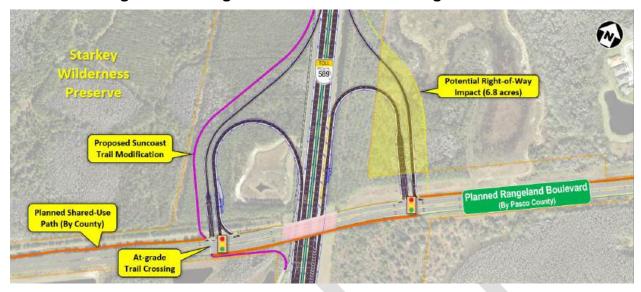


Figure 5-7: Rangeland Boulevard Interchange Alternative

## 5.4.7 Ridge Road Interchange

Ridge Road is an east-west divided roadway located in Pasco County with two lanes in each direction, flushed shoulders, and auxiliary lanes at the interchange ramp terminal approaches. A barrier wall is located under the Suncoast Parkway overpass dividing eastbound from westbound vehicular traffic. The existing interchange configuration is a conventional, unsignalized diamond interchange with northbound and southbound on and off ramps connecting Suncoast Parkway traffic with Ridge Road.

FDOT's CAP-X tool confirmed that modifying the existing diamond interchange would meet the operational needs for the Design Year. Proposed modifications at this interchange include:

- 1. Adding a second left and right turn lane from the Suncoast Parkway northbound off-ramp
- 2. Modifying the northbound and southbound off-ramp free flow right to signal control for improved crosswalk safety
- 3. Tightening the approach radius from eastbound and westbound Ridge Road to the on ramp for improved crosswalk safety
- 4. Adding a second left turn lane from eastbound Ridge Road to the Suncoast Parkway northbound on-ramp
- 5. Adding of a shared-use path along the north side of Ridge Road within the interchange area.

See **Figure 5-8** for the proposed improvements at the Ridge Road interchange.

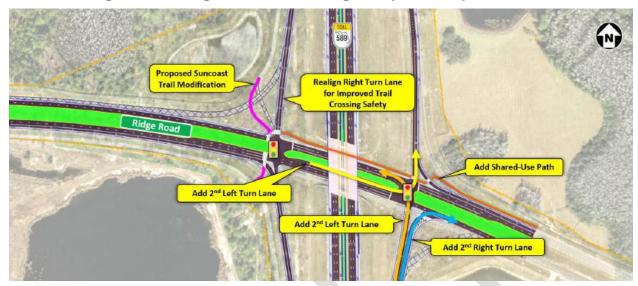


Figure 5-8: Ridge Road Interchange Proposed Improvements

#### 5.4.8 SR 52 Interchange

SR 52 is an east-west divided roadway located in Pasco County with three lanes in each direction, curb and gutter, and auxiliary lanes at the interchange ramp terminal approaches. A raised traffic separator is located under the Suncoast Parkway overpass dividing eastbound from westbound vehicular traffic. The existing interchange configuration is a conventional, signalized diamond interchange with northbound and southbound on and off ramps connecting Suncoast Parkway traffic with SR 52.

FDOT's CAP-X tool confirmed that modifying the existing diamond interchange would meet the operational needs for the Design Year. Proposed modifications at this interchange include:

- 1. Adding a third left turn lane and a second right turn lane from the Suncoast Parkway northbound off-ramp
- 2. Adding a second right turn lane from eastbound SR 52 to the southbound on-ramp.

See **Figure 5-9** for the proposed improvements at the SR 52 interchange.

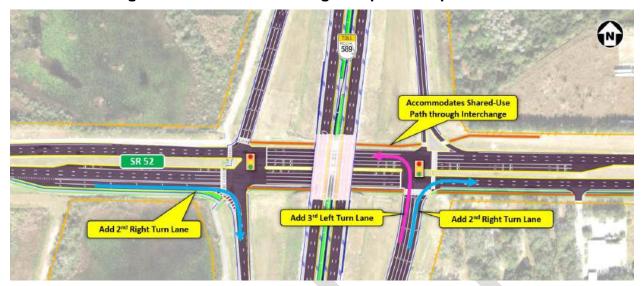


Figure 5-9: SR 52 Interchange Proposed Improvements

#### 5.5 COMPARATIVE ALTERNATIVES EVALUATION

A comparative evaluation of the alternatives is provided in **Table 5-1**. The subsequent sections provide additional information in terms of engineering, socioeconomic, environmental, physical, traffic, and safety impacts, as well as cost estimates for each of the Build Alternatives.

**Table 5-1: Evaluation Matrix** 

Evaluation Criteria	No-Build Alternative	Preferred Alternative		
Meets Purpose and Need	X	✓		
Improves Safety by Reducing Congestion	Х	✓		
Meet Future Traffic Operation Needs	X	✓		
Improves Travel Times	X	✓		
Improves Emergency Response and Evacuation Time	X	✓		
Social and Economic				
Right-of-way Required (acres)	0	10.2		
Number of Parcels Impacted	0	4		
Number of Business Relocations	0	0		
Number of Residential Relocations	0	0		
Natural Resources				
Wetland Effects (acres)	0	13.07		
Floodplains Effects (acres-ft)	0	12.65		
Adverse Effects to Federal or State Species	No	Low		
Physical Resources				
Existing Utilities Impacted	No	Low		
Traffic Noise Effects	Medium	Medium		
Potential Contamination Effects	No	Low		
Costs (\$ millions)				
Estimated Construction Cost (\$ million)	\$0	\$746.2		
Design Cost (\$ million)	\$0	\$74.6		
Construction Engineering & Inspection (CEI) Cost (\$ million)	\$0	\$74.6		
Estimated Right-of-Way Cost (\$ million)	\$0	\$1.0		
Environmental Mitigation Cost (\$ million)	\$0	\$2.5		
Total Costs (\$ million)	\$0	\$898.9		

#### 5.5.1 Geometric Characteristics

The segment from south of Van Dyke Road to north of Lutz Lake Fern Road is designed for 60 mph. The recommended design speed for this facility is 70 mph. Upgrading the horizontal and vertical geometry to meet a 70-mph design speed requires reconstruction within this segment. The shift in the alignment results in the need for a quarter acre sliver of right-of-way on the east side of the bridge over TPC Blvd and the reconstruction of the bridges over TPC Blvd and Lutz Lake Fern Road.

From north of Lutz Lake Fern Road to SR 52, mainline improvements are achieved by following the existing centerline alignment.

#### 5.5.2 Suncoast Trail Modifications

An evaluation of the Suncoast Trail was conducted to identify any areas that may conflict with the clear zone for the Build Alternative. Two segments between SR 54 and Rangeland Boulevard were identified. The first segment is 350 feet long (Sta. 3333+00 to Sta. 3336+50), and the second segment is 1,050 feet long (Sta. 3341+00 to Sta. 3351+50). The trail would be reconstructed outside of the clear zone within these areas.

To accommodate a new interchange at Rangeland Boulevard, the trail would be reconstructed to the outside of the southbound off-ramp and trail users would cross Rangeland Boulevard through an at-grade crosswalk.

There are five bridge crossings where the bridge carries both roadway and trail users. An evaluation was conducted to determine if the trail should be relocated to a separate trail bridge. Providing a separate trail bridge would improve the trail experience but may face permitting challenges and is more costly to construct. Providing a separate trail bridge is approximately \$6 million more per location. Maintaining the trail on the roadway bridge was selected as the preferred Build Alternative as it would result in less environmental impacts and minimizes costs.

#### 5.5.3 Drainage

Stormwater management and pond siting needs were evaluated for each of the 36 basins defined within the project limits. Through a review of permit documents and as-built plans, excess capacity is available for the future expansion of the Suncoast Parkway; however, modifications and regrading of the existing ponds are needed to meet minimum free board requirements. For the new interchange at Rangeland Boulevard, new ponds can be accommodated within the proposed in-field areas identified for roadway purposes. Additional information is documented in the *Pond Siting Report*.

#### 5.5.4 Stakeholder Input

Throughout the duration of this PD&E Study, meetings were held with stakeholders that had interest in the project. At the meetings, stakeholders were updated on project developments and were asked to share information that could assist the project team in the development of the alternatives. Additional information related to stakeholder input is provided in Section 6.0.

#### 5.6 SELECTION OF THE PREFERRED ALTERNATIVE

The Build Alternative was selected as the Preferred Alternative as it meets the purpose and need by accommodating future travel demands, improving travel time and reliability, and enhancing safety along the corridor.

# 6.0 AGENCY COORDINATION & PUBLIC INVOLVEMENT

#### 6.1 AGENCY COORDINATION

The Efficient Transportation Decision Making (ETDM) process is the FDOT's procedure for reviewing qualifying transportation projects to consider potential environmental effects in the Planning phase. This process provides stakeholders the opportunity for early input, involvement, and coordination, provides for the early identification of potential project effects, and informs the development of scopes for projects advancing to the PD&E phase. Numerous local, regional, state, and federal agencies were identified as having an interest in this project through jurisdictional review or expressed interest. These agencies were identified and contacted through the Advance Notification (AN) process at the outset of the project.

Agency coordination has occurred throughout the PD&E phase of the project and will continue as the project moves forward into subsequent design and construction phases. Agency coordination documentation is included in the *Comments and Coordination Report*. **Table 6-1** lists the events to date:

**Agencies Meeting Dates** 11/15/23, 2/21/24, Hillsborough County 3/25/24, 8/28/24 Hillsborough County School District 4/24/24, 5/1/24, 11/22/24 Hillsborough TPO Board 8/14/24 Hillsborough TPO Citizens Advisory Committee (CAC) 8/7/24 Hillsborough TPO Livable Roadways Committee (LRC) 8/21/24 Hillsborough TPO Technical Advisory Committee (TAC) 6/3/24 5/12/23, 9/20/23, Pasco County 12/20/23, 2/15/24, 8/13/24, 12/5/24, 12/19/24 6/5/24 Pasco MPO Bicycle and Pedestrian Advisory Committee (BPAC) Pasco MPO Board 6/13/24 6/5/24 Pasco MPO Citizens Advisory Committee (CAC) 6/5/24 Pasco MPO Technical Advisory Committee (TAC)

**Table 6-1: Agency Coordination Meetings** 

#### 6.2 PUBLIC INVOLVEMENT

Public outreach and involvement are important to the success of the project. To streamline public outreach efforts, a comprehensive Public Involvement Plan (PIP) was prepared for this project and is available under a separate cover. The PIP outlines the strategies used to address public outreach over the course of the study. A project website was created for this PD&E Study to provide the public with project specific information, provide an opportunity for the public to make comments and sign up to be added to the project mailing list to receive updates on the project as

it advances. Project newsletters were mailed out to all property owners within at least 300 feet of the project centerline in February 2024 to introduce the PD&E Study and in June 2024 to announce the Alternatives Public Information Meeting for the study. A *Comments and Coordination Report* will be prepared under a separate cover to provide a more detailed summary of each meeting and will include a summary of the comments received throughout the life of the study.

#### **Alternatives Public Information Meeting**

A Hybrid Alternatives Public Information Meeting was held in June 2024 and was composed of a Virtual Meeting and an In-Person Meeting. The Alternatives Public Information Meeting had two participation options to select from: Virtual/Online or by telephone on June 25, 2024, or in-person on June 27, 2024. The in-person component was held on June 27, 2024, from 5:30 p.m. until 7:30 p.m. at the Hilton Garden Inn Suncoast Parkway located at 2155 Northpointe Parkway, Lutz, FL 33558. The meeting was held to provide interested persons an opportunity to review the proposed project alternatives, ask questions, and provide comments concerning the conceptual design, and potential social, economic, and environmental effects of the proposed improvements.

Public meeting invitation letters were sent by e-mail to 33 elected officials, 42 appointed officials, and 46 interested parties/organizations. Letters were mailed to 3,759 property owners and tenants adjacent to the study area. The Alternatives Public Information Meeting was advertised on June 9, 2024, in the Tampa Bay Times and the La Gaceta Spanish newspaper on June 14, 2024. An advertisement was published in The Florida Administrative Register (FAR) on June 11, 2024. The Enterprise distributed a press release on June 18, 2024, to local media, and notices were posted on the project website at <a href="https://www.SuncoastParkwayPDE.com">www.SuncoastParkwayPDE.com</a>, and the FDOT public notices website.

A total of 49 people signed into the virtual meeting. Attendees had the opportunity to listen to the Enterprise Project Manager introduce the project and team members before watching the project video presentation which described proposed alternatives. A "Question" feature was open for the duration of the meeting which allowed the viewers to ask questions. At the conclusion of the meeting, the consultant Project Manager answered questions submitted by participants during registration. Unanswered questions were responded to via e-mail after the meeting.

The public was invited to attend the In-Person Alternatives Public Information Meeting at any time between 5:30 p.m. and 7:30 p.m. Attendees had an opportunity to view a continuous looping presentation that provided a general overview of the project. Attendees also had an opportunity to view several project displays, including concepts, information about the study process, and information about current conditions and future traffic projections. Interactive smart boards also were used to allow community members to focus on a specific area of the project, ask questions and provide feedback. A Turnpike Traffic Noise video and an FDOT right-of-way video were also available for viewing. Members of the project team, including engineers and experts on traffic and noise, were available to discuss the project with attendees and answer questions.

A total of 63 people attended the In-Person Alternatives Public Information Meeting, and ten questions and comments were received. More information on the Alternatives Public Information Meeting is provided in the Comments and Coordination Report, under a separate cover.

### 6.3 PUBLIC HEARING

This section will be completed after the Public Hearing.



#### 7.0 PREFERRED ALTERNATIVE

After the Alternatives Public Information Meeting and selection of the Preferred Alternative, a Cost Risk Analysis and Value Engineering (CRAVE) study was conducted. The CRAVE team developed 12 Value Engineering recommendations. A Value Engineering Resolution Memo summarizing the recommendations along with the responses are provided in **Appendix A**.

#### 7.1 TYPICAL SECTIONS

Proposed typical sections for the Preferred Alternative are provided in **Appendix B**.

#### 7.1.1 Mainline - South of Van Dyke Road to North of SR 54

The proposed typical section for this segment consists of four 12-foot travel lanes in each direction separated by a 26-foot wide median with a median barrier wall. Twelve foot wide inside and outside shoulders would be provided. The inside shoulders are part of the 26-foot wide median. The proposed typical section would accommodate the existing Suncoast Trail. After the Alternatives Public Information Meeting and in response to the CRAVE Study, the typical section for this segment was modified to slope one lane to the inside instead of two lanes. With no further widening planned for the future, sloping one lane to the inside and three lanes to the outside would help reduce drainage infrastructure in the median resulting in a cost savings.

#### 7.1.2 Mainline - North of SR 54 to SR 52

The proposed typical section for this segment consists of three 12-foot travel lanes in each direction separated by a 40-foot wide median. Twelve foot wide inside and outside shoulders would be provided. The inside shoulders are part of the 40-foot wide median. The proposed typical section would accommodate the existing Suncoast Trail.

#### 7.2 ACCESS MANAGEMENT

Suncoast Parkway is a limited access facility with a Class 1 Access Management Classification. The existing five interchanges within the study limits serve as the only points of ingress and egress to the Suncoast Parkway, and no changes are expected in the access classification of the Suncoast Parkway. One proposed interchange at Rangeland Boulevard is included as part of the Preferred Alternative. No access management changes are necessary along the side streets for the proposed improvements.

#### 7.3 RIGHT-OF-WAY

The Preferred Alternative requires 0.25 acres of right-of-way from three parcels for mainline improvements and 9.95 acres of right-of-way for interchange improvements (associated with the interchange at Rangeland Boulevard). No relocations are required. Proposed right-of-way needs are shown in the Plan and Profile Roll Plots in **Appendix C**.

#### 7.4 HORIZONTAL AND VERTICAL GEOMETRY

The proposed horizontal and vertical geometries are shown in the Plan and Profile Roll Plots provided in **Appendix C** of this report.

Within the segment from south of Van Dyke Road to Lutz Lake Fern Road, the horizontal and vertical geometries were modified to increase the design speed from 60 mph to 70 mph. After the

Alternatives Public Information Meeting and in response to the CRAVE Study, the horizontal geometry between Ramblewood Road and Lutz Lake Fern Road was modified to eliminate the need for right-of-way along the southbound direction. Previously, a quarter sliver of right-of-way was identified from the Cheval community consisting of four residential parcels, a park owned by the Cheval HOA, and an internal access road. The Preferred Alternative reflects the modified geometry that eliminates the need for this right-of-way.

In addition, minimum profile grade was introduced at superelevation transition areas to mitigate hydroplaning risk and avoid the need for shoulder rocking.

#### 7.5 DESIGN VARIATIONS AND DESIGN EXCEPTIONS

There are no Design Variations or Exceptions proposed for this project.

#### 7.6 MULTI-MODAL ACCOMMODATIONS

The Suncoast Parkway is a limited access facility; therefore, the Preferred Alternative does not include bicycle or pedestrian accommodations directly along the mainline. Beginning at Lutz Lake Fern Road, the Suncoast Trail parallels the Suncoast Parkway and extends within the project limits. Access to the Suncoast Trail which runs adjacent to the project corridor will be maintained. The proposed improvement also evaluated the potential to provide safer connections for bicyclists and pedestrians along the cross-streets within the study area. The Preferred Alternative for the interchanges includes share-use paths between the ramp terminals as required by the FDM.

#### 7.7 INTERSECTION/INTERCHANGE CONCEPTS

Proposed interchange concepts are shown in the Plan and Profile Roll Plots provided in **Appendix C**. Modifications to each interchange is described below.

Van Dyke Road (MP 14) would remain as a diamond interchange with the addition of a second left turn lane to the northbound and southbound off ramps. Improvements include a new turn lane along westbound Van Dyke Road from the southbound off-ramp to Ramblewood Road and a shared-use path on the north side of Van Dyke Road between ramp terminals. A shared-use path on the south side will be added as part of a planned project by Hillsborough County.

Lutz Lake Fern Road Interchange (MP 16) would remain as a partial cloverleaf interchange with the addition of a second right turn lane from the Suncoast Parkway northbound off-ramp onto westbound Lutz Lake Fern Road as well as a second left turn lane from eastbound Lutz Lake Fern Road to the Suncoast Parkway northbound on-ramp. Additionally, storage queue lengths will be increased for all lanes at the Suncoast Parkway southbound off-ramp and for the left turn lane from eastbound Lutz Lake Fern Road onto the Suncoast Parkway southbound on-ramp. A shared-use path will be added within the interchange area along both sides of Lutz Lake Fern Road. After the Alternatives Public Information Meeting and in response to the CRAVE Study, the southbound on-ramp was modified to provide additional separation from the ramp gore and to increase the ramp speed from 30 mph to 45 mph.

SR 54 Interchange (MP 19) would remain as a tight diamond interchange with the addition of a 3rd right turn lane to the northbound off ramp, an additional right and left turn lane to the southbound off ramp, and an additional left turn lane from westbound SR 54 to the southbound on ramp. An additional through lane is also included along SR 54 in the westbound direction

beginning at the southbound off ramp, continuing past Crossings Boulevard, and up to South Branch Boulevard. Improvements would also include a shared-use path on both sides within the interchange area.

Rangeland Boulevard Interchange (MP 20) includes a new partial cloverleaf interchange with loop ramps on the north side. The interchange configuration includes two left turn lanes and a single right turn lane for the southbound off-ramp and two left turn lanes and two right turn lanes for the northbound off-ramp. After the Alternatives Public Information Meeting and in response to the CRAVE study, the northbound off-ramp loop radius was modified to increase the design speed from 30 mph to 35 mph for improved driver comfort and to reduce the speed differential between the mainline and ramp. This increased the right-of-way required from 6.8 acres to 9.95 acres.

Ridge Road Interchange (MP 25) would remain as a diamond interchange with the addition of left and right turn lanes to the northbound off ramp and a left turn lane from eastbound Ridge Road to the northbound on ramp. The improvement to this interchange also includes realigning the right turn lane from the southbound off ramp to improve the safety of the trail crossing.

SR 52 Interchange (MP 27) would remain as a tight diamond interchange with the addition of a left and right turn lane to the northbound off ramp and adding a 2nd right turn lane from eastbound SR 52 to the southbound on ramp.

#### 7.8 TOLL FEATURES

Nine toll sites were evaluated including four new toll sites and five existing sites to remain within the study limits.

New toll facilities include the following:

- 1. SR 54 northbound exit ramp tolling movement that replaces the existing gantry site
- 2. SR 54 southbound entry ramp tolling movement that replaces the existing gantry site
- 3. Rangeland Boulevard northbound exit ramp tolling movement.
- 4. Rangeland Boulevard southbound entry ramp tolling movement.

Existing toll facilities to remain include the following:

- 1. Van Dyke Road northbound entry ramp tolling movement
- 2. Van Dyke Road southbound exit ramp tolling movement
- 3. Mainline northbound and southbound tolling movements at Anclote
- 4. Ridge Road northbound entry ramp tolling movement
- 5. Ridge Road southbound exit ramp tolling movement

The toll siting evaluation and determination utilized the criteria within the Enterprise's General Tolling Requirements (GTR) dated January 2023. Additional details on the evaluation process are documented under a separate cover in the *Preliminary Toll Siting Technical Memorandum*.

# 7.9 INTELLIGENT TRANSPORTATION SYSTEMS AND TSM&O STRATEGIES

The roadway widening and improvements in the Preferred Alternative are expected to impact the existing ITS devices. To reduce downtime during construction and enhance safety, capacity, efficiency, and mobility within the transportation system, the existing ITS will be replaced and upgraded to align with the latest FDOT and FTE technologies and standards. Additional ITS devices are proposed to improve the system monitoring and data collection capability in the corridors, including more CCTV cameras, DMS, MVDS and Bluetooth at strategic locations such as interchanges and ramps. In support of the statewide safety initiative and the Florida Strategic Highway Safety Plan's goal of working toward "Vision Zero", additional wrong way vehicle detection systems (WWVDS) are proposed at the major interchanges.

#### 7.10 LANDSCAPING

Landscaping will be included where appropriate. The *Suncoast Parkway PD&E Landscape Analysis* and *Opportunity Report*, available in the project file, identifies potential landscape opportunities for the Preferred Alternative. Final landscaping plans will be developed during the Final Design phase for the mainline, ramps, toll sites, and stormwater ponds.

#### 7.11 LIGHTING

Lighting features for the Preferred Alternative will be evaluated during the design phase.

#### 7.12 WILDLIFE CROSSINGS

There are six existing wildlife crossings within the study area. These crossings include:

- South Branch of The Anclote River Wildlife Crossing (ID No. TP-14-001-BR)
- Sandy Branch of The Anclote River Wildlife Crossing (ID No. TP-14-002-BR)
- Anclote River Wildlife Crossing (ID No. TP-14-003-BR)
- Five-Mile Creek Wildlife Crossing (ID No. TP-14-006-BR)
- Wetland 3-9 Culvert (ID No. TP-14-005-CV)
- Pithlachascotee River Wildlife Crossing (ID No. TP-14-004-BR)

There are no impacts associated with the Preferred Alternatives to the wildlife crossings; all existing crossings will be maintained.

#### 7.13 PERMITS

The SWFWMD and USACE regulate impacts to wetlands within the project study area. Other agencies, including the EPC, USFWS, NMFS, EPA, and the FWC, review and comment on wetland permit applications. The FWC also issues permit for gopher tortoise relocation activities and incidental takes for state protected avian species. The USFWS is the lead agency for eagle nest take permitting or coordination. In addition, the FDEP regulates stormwater discharges from construction sites. The complexity of the permitting process will depend on the size of the project

and/or the extent of wetland impacts. It is anticipated that the following permits will be required during the design and permitting phase for this project:

- Environmental Resource Permit (ERP) Issues by SWFWMD
- Section 404 Dredge and Fill Permit Issued by USACE
- National Pollutant Discharge Elimination System (NPDES) Issued by FDEP
- Gopher Tortoise Relocation Permit (as necessary) Issued by FWC
- Incidental Take Permit (as necessary) Issued by FWC
- Incidental Take Permit (as necessary) Issued by USFWS

#### 7.14 DRAINAGE AND STORMWATER MANAGEMENT FACILITIES

A preliminary drainage analysis was performed to determine the locations and sizes of the required water management facilities for the Preferred Alternative. Within the project limits there are 37 drainage basins consisting of 36 existing and one proposed. The new basin is proposed to accommodate the widening of the mainline plus a portion of the proposed Rangeland Boulevard interchange. The preferred alternative for each of the stormwater facility within the project area will require modification and expansion to allow for the added run-off volumes. No additional right-of-way, outside of what was already identified for roadway purposes, is needed for stormwater management. Additional detail on the existing basins and proposed pond condition is documented under a separate cover in the *Pond Siting Report*.

#### 7.15 FLOODPLAIN ANALYSIS

Proposed widening along Suncoast Parkway will impact about 12.65 ac-ft of floodplain, with an additional 0.78 ac-ft of impact from the proposed pond construction activities. A detailed analysis of the encroachment volumes resulting from roadway improvements and compensation for these encroachment volumes have been included in the *Pond Siting Report* which is under separate cover. FEMA maps identifying the proposed mitigation sites and detailed calculations can be found in Appendices A and C of the *Pond Siting Report*. Table 7-1 identifies each floodplain compensation site within each basin as well as the preferred site and associated acreage.

Table 7-1. Floodplain impacts and Compensation basins					
Basin	Floodplain Roadway Impacts (ac-ft)	Anticipated Pond Impacts (ac-ft)	Total Floodplain Impacts (ac-ft)	Compensation Provided (ac-ft)	FPC Location
4	0.02	0.00	0.02	0.02	Pond 4
5	0.07	0.00	0.07	0.07	Pond 5
10	0.11	0.00	0.11	0.11	Pond 10
11	1.13	0.00	1.13	1.14	Pond 11
13	0.04	0.00	0.04	0.04	Pond 13
14	1.48	0.00	1.48	1.48	Pond 14
15	1.31	0.17	1.48	1.48	FPC Site
15B	1.91	0.56	2.47	2.47	FPC Site

**Table 7-1: Floodplain Impacts and Compensation Basins** 

Basin	Floodplain Roadway Impacts (ac-ft)	Anticipated Pond Impacts (ac-ft)	Total Floodplain Impacts (ac-ft)	Compensation Provided (ac-ft)	FPC Location
16	1.23	0.00	1.23	1.23	Pond 16
17	1.08	0.00	1.08	1.09	Pond 17
18	1.34	0.00	1.34	1.35	Pond 18
19	0.07	0.00	0.07	0.07	Pond 19
21	0.86	0.00	0.86	0.86	Pond 21
22	0.01	0.00	0.01	0.02	Pond 22
23	1.34	0.00	1.34	1.35	Pond 23
24	0.66	0.00	0.66	0.67	Pond 24

#### 7.16 BRIDGE AND STRUCTURES ANALYSIS

There are two new bridges being proposed within the project limit. Ten of the existing bridges are proposed to be widened. During the Bridge Development Report (BDR) and 30% plans phase of this project, the recommended bridge type and roadway alignment will be determined and recommended for final design. Additional details on the proposed bridge improvements within the project limits are documented under a separate cover in the *Bridge Analysis Technical Memorandum (BATM)*.

**Table 7-2** provides a summary of the proposed bridge and structure improvements along the project corridor.

Table 7-2: Summary of Proposed Bridge and Structure Improvements

Bridge Number	Structure Location	Proposed Improvement
100626 & 100627	Suncoast Parkway over Van Dyke Road	Widening
100628 & 100629	Suncoast Parkway over Ramblewood Road	Widening
100630 & 100631	Suncoast Parkway over TPC Boulevard	Replacement
100632 & 100633	Suncoast Parkway over Lutz Lake Fern Road	Replacement
140069 & 140070	Suncoast Parkway over Anclote River (South)	Widening
140072 & 140073	Suncoast Parkway over SR 54	Widening
140074 & 140075	Suncoast Parkway over Sandy Branch River	Widening
140076 & 140077	Suncoast Parkway over Anclote River (North)	Widening
140089 & 140090	Suncoast Parkway over Ridge Road	Widening
140078 & 140079	Suncoast Parkway over Five Mile Creek	Widening
140080 & 140081	Suncoast Parkway over Pithlachascotee River	Widening
140082 & 140083	Suncoast Parkway over SR 52	Widening

#### 7.17 TRANSPORTATION MANAGEMENT PLAN

Construction activities usually result in traffic disruptions and safety concerns along the roadway work zone. Developing a Transportation Management Plan (TMP) that minimizes these disruptions and preserves the traffic operations, safety of the workers and patrons within the work zone is paramount to a successful project. For the Preferred Alternative, the project has been divided into two segments: (1) south of Van Dyke Road to north SR 54; and (2) north of SR 54 to SR 52. Actual construction activities may be divided into different segments.

#### Segment 1 – South of Van Dyke Road to North of SR 54

Phase 1 includes construction activities within the median while shifting traffic to the outside. This includes bridge widening or replacement activities. Phase 2 includes construction to the outside of the Suncoast Parkway while shifting traffic to the newly constructed inside pavement This includes bridge widening and replacement activities. Construction of noise walls, where identified, can be completed during Phase 2. Modifications to the interchange ramps can occur during Phase 1 and 2. Phase 3 shifts traffic to its final location.

#### Segment 2 - North of SR 54 to SR 52

Phase 1 includes construction activities within the median, including bridge widenings, while shifting traffic to the outside. Phase 2 includes resurfacing operations for the outside travel lanes. Modifications to the interchange ramps can occur during Phase 1 and 2. Phase 3 shifts traffic to its final location.

#### 7.18 CONSTRUCTABILITY

A preliminary construction phasing plan was evaluated as part of this PD&E Study to determine constructability and the ability to maintain traffic for the preferred alternative. Many of the components required to develop a plan will be developed in accordance with FDOT standards during the subsequent phases of the project. The plan proposes to keep all travel lanes open during construction. Short lane closures may be necessary during off-peaks to change construction phases. Advance notice of any lane closure will be given to minimize disruption to roadway users.

#### 7.19 CONSTRUCTION IMPACTS

Construction methods and staging locations have not been identified and will be determined by the contractor. Construction activities may cause short-term air quality impacts in the form of dust from earthwork and unpaved roads. These impacts will be minimized by adherence to applicable state regulations and to applicable FDOT Standard Specifications for Road and Bridge Construction.

#### 7.20 SPECIAL FEATURES

The Preferred Alternative will include noise barriers to address traffic noise impacts. Proposed locations are shown on the Plan and Profile Roll Plots provided in Appendix C. Additional information is provided in the *Noise Study Report*, available under separate cover.

#### 7.21 UTILITIES

Twenty-two Utility Agency Owners (UAOs) were identified as potentially having facilities within the study limits. Follow-up information provided by the identified UAOs resulted in 18 UAOs providing information on facilities in the project area and four providing no responses. Actual utility impacts will be verified during the design phase when detailed survey information is available. Additional information is available in the *Utility Assessment Package*, available under separate cover.

#### 7.22 COST ESTIMATES

The total estimated cost for the Preferred Alternative is \$898.9 million. A breakdown of the costs associated with the Preferred Alternative is provided in **Table** 7-3. Construction cost estimates were developed through FDOT's Long Range Estimates (LRE) system, and a summary is provided in Appendix D.

Table 7-3: Cost Estimate for the Preferred Alternative

Project Element	Cost (in millions)
Construction Cost	\$746.2
Final Design Cost	\$74.6
CEI Cost	\$74.6
Right-of-Way Cost	\$1
Wetland Mitigation Cost	\$2.5

### **APPENDIX A**



#### VALUE ENGINEERING RESOLUTION MEMORANDUM



Date: December 18, 2024

**To:** Alison Stettner, AICP, Director of Transportation Development

From: Greg Moore, PE, Project Manager (AtkinsRealis)

Copies: Nicola Liquori, Albert Salas, Stephanie Sharp, Carol Scott, Andra Diggs, Henry Pinzon, Ashraf Elmaghraby, Yveins Jean-Pierre, Debbie Meyer, John Easterling, Eric Gordin, Karen Akers, Donald VanWhervin, Joseph Chinelly, Rax Jung, Russ Snyder, Erin Yao, Kenzot Jasmin, Joe Bitar, James Beverly, Annemarie Hammond, Nicolette Lundie, Erin Sterk, Daniel Marwood, Gabriel Mnayarji, Beth Morse, Eddie Register, Andrew Velasquez, Steven Kane, and Brandon Bobo

#### Subject: Value Engineering (VE) Resolution Memorandum

Widen Suncoast Parkway (SR 589) Project Development and Environment (PD&E) Study from S. of Van Dyke Road to SR 52 (MP 13 to MP 29)
Hillsborough and Pasco Counties, Florida
FPID # 448068-1-22-01

A Cost Risk and Value Engineering (CRAVE) Workshop was conducted August 7-8, 2024 and August 20-23, 2024. The CRAVE team developed 12 Value Engineering (VE) recommendations and presented their findings on August 23, 2024. The project team presented the proposed resolutions of the VE recommendations to the Enterprise Management on October 22, 2024. A summary of recommendations and responses is documented below.

#### 1. VE Recommendation 1: Improve Roadway Runoff Conveyance

**VE Recommendation:** Provide the minimum longitudinal grade between Station (Sta.) 3190+00 to Sta. 3216+00 to avoid drainage issues.

**Response:** Recommendation Accepted - This segment of the project shows a flat profile along a superelevated curve. Maintaining a flat profile would require shoulder rocking which is not desirable. The profile will be adjusted to provide the minimum longitudinal grade.

2. <u>VE Recommendation 2: Modify Configuration of Ramps between SR 54 and Rangeland Blvd</u>

VE Recommendation: Along the northbound direction of travel, construct a CD system between SR 54 and Rangeland Blvd and convert the northbound off-ramp to Rangeland Blvd to a tight diamond instead of a loop ramp.

**Response: Recommendation Rejected** - The combination of a CD system with a tight diamond offramp at Rangeland Boulevard would separate weaving from the mainline and eliminate the need for right-of-way in the northeast quadrant of the Suncoast Parkway and Rangeland Blvd (planned by Pasco County). However, implementing this recommendation would require additional barrier wall and shoulders for the CD system, and embankment and walls for the NB off/on ramp to/from Rangeland Boulevard. The cost for these additional components is approximately \$31.3 million. Furthermore, a traffic evaluation demonstrated that the CD system did not provide any operational benefits over the PD&E alternative.

#### 3. VE Recommendation 3: Modify Geometry to Stay Within R/W

**VE Recommendation:** Adjust the alignment along the Cheval community by including a tangent section and two 45-second deflections. This would eliminate the need for a ¼-acre sliver of R/W along the southbound direction but a slight increase in the amount of R/W needed in the northbound direction.

Response: Recommendation Accepted – Eliminating the need for R/W along the southbound direction is beneficial to the project as potential impacts included partial takes from four residential parcels, a park owned by the Cheval HOA, and an internal access road. Modifications made to the VE recommendation achieved the same result by including a small tangent section followed by a flat, normal crown curve instead of the two deflections. R/W impacts along the northbound direction remained involving a ¼-acre sliver from the Cheval HOA.

#### 4. <u>VE Recommendation 4: Reduce Compensation Offsite</u>

**VE Recommendation:** Floodplain impacts identified in median ditches may not be valid; reevaluate to reduce need for compensation.

**Response: Defer to the Design Phase** – Once design survey information is available, it is recommended to complete additional floodplain analysis.

#### 5. VE Recommendation 5: Modify Lane Geometry from SR 54 to North Project Limit

**VE Recommendation:** Reduce lanes over bridges by dropping a lane at the off-ramp and adding a lane from the on-ramp. This would reduce pavement and bridge costs.

**Response:** Recommendation Rejected – This recommendation would introduce lane drops and create weaving areas thereby diminishing the capacity of the outside lane. It would not meet driver expectancy.

#### 6. VE Recommendation 6: Optimize DDI Operations at SR 54

**VE Recommendation:** Optimize the DDI configuration by eliminating the eastbound and westbound left turn signals to the on-ramps, reduce the eastbound to southbound right turn lane from two to one lane, and reduce the eastbound to northbound left turn lanes from two to one lane.

**Response:** Recommendation Rejected – Traffic operational benefits over the PD&E alternative is neutral. Furthermore, the DDI was eliminated as the tight diamond interchange (TDI) concept was selected as the preferred alternative.

#### 7. VE Recommendation 7: Increase Radius of Loop Ramp at Rangeland Boulevard

**VE Recommendation:** Increase the radius of the northbound loop ramp at Rangeland Boulevard from 231 feet (30 mph) to 441 feet (40 mph) to improve driver comfort and reduce speed differential between the mainline and ramp.

**Response:** Recommendation Accepted – It is recognized that increasing the design speed of the loop ramp would improve driver comfort. However, providing a 40 mph loop ramp would increase R/W and environmental impacts. Since the PD&E alternative already includes a long tangent section with separation from the mainline, the loop ramp will be modified to meet a 35 mph design speed.

#### 8. VE Recommendation 8: Modify Lutz Lake Fern Road Loop Ramp Geometry

**VE Recommendation:** Adjust the geometry of the southbound on-ramp at Lutz Lake Fern Road to provide additional separation from the ramp gore and increase the ramp speed from 30 mph to 45 mph.

**Response: Recommendation Accepted:** Although implementing this recommendation requires the reconstruction of the loop ramp, it would improve driver expectancy at the entry gore. Further modification will include flattening the approach curve to avoid impacting the geometry of the bridge over Lutz Lake Fern Road.

#### 9. VE Recommendation 9: Install Emergency Access Gate in the Median

**VE Recommendation:** Include emergency access gates in the median.

**Response:** Recommendation Rejected – Including emergency access gates is not a current practice by the Enterprise. It adds cost and additional maintenance.

#### 10. <u>VE Recommendation 10: Use Double-Faced Guardrail</u>

**VE Recommendation:** For the segment from north of SR 54 to SR 52 with open median, replace two separate single-faced guardrails with one single double-faced guardrail.

**Response:** Defer to the Design Phase - The PD&E alternative includes two separate single-faced guardrails per input received from Enterprise Maintenance in order to improve the safety of maintenance crews. Further coordination is recommended during the design phase to make a final determination.

#### 11. VE Recommendation 11: Construct a Parclo on the NW Quadrant at SR 54

**VE Recommendation:** Construct a partial cloverleaf interchange (Parclo) in the northwest quadrant of the Suncoast Parkway and SR 54 connecting to the Crossings Boulevard intersection to improve operations for the westbound to southbound movement.

**Response:** Recommendation Rejected – A traffic evaluation indicated that this recommendation would not perform better than the TDI or DDI alternative based on total travel time. It would require additional R/W and additional bridges to span the southbound off and on ramps over the Suncoast

Trail. Constructing a parclo may require the relocation of the existing trailhead serving the Suncoast Trail.

#### 12. VE Recommendation 12: Slope Inside Lane to Inside in One Direction

**VE Recommendation:** For the closed median section from south of Van Dyke Road to north of SR 54, slope one lane to the inside instead of two lanes.

Response: Recommendation Accepted – Providing eight lanes within this segment of the Suncoast Parkway is considered the ultimate configuration due to inability to further widen the Veterans Expressway to the south. Generally, Enterprise preference is to slope two lanes to the inside to accommodate future widening. With no further widening planned for the future, sloping one lane to the inside and three lanes to the outside would help reduce drainage infrastructure in the median resulting in a cost savings. In addition, multiple curves along this segment of the project requires superelevation that slopes all lanes to one side. A hydroplaning evaluation determined that no hydroplaning issues would occur.

### **APPENDIX B**



### STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION

### CONTRACT PLANS

#### FINANCIAL PROJECT ID 448068-1-22-01 PASCO COUNTY

STATE ROAD NO. 589 WIDENING SUNCOAST PARKWAY FROM VAN DYKE ROAD TO SR 52 (MP 13-29) PD+E STUDY

PROJECT LOCATION URL: https://tinyurl.com/5edte8wa

PROJECT LIMITS: BEGIN MP 13.000 - END MP 29.000

**EXCEPTIONS**: NONE

BR#100626 & BR#100627 MP 14.2 BR#100628 & BR#100629 MP 15.2

BRIDGE LIMITS:

BR#100630 & BR#100631 MP 15.8 BR#100632 & BR#100633 MP 196.3

BR#140069 & BR#140070 MP 17.9 BR#140073 & BR#140072 MP 18.7

BR#140075 & BR#140074 MP 20.5 BR#140077 & BR#140076 MP 22

BR#140090 & BR#140089 MP 25.2 BR#140079 & BR#140078 MP 25.8

BR#140081 & BR#140080 MP 26.9

RAILROAD CROSSING: NONE

CONCURRING WITH: BRIDGE TYPICAL SECTION ELEMENTS

TURNPIKE DISTRICT STRUCTURES

DESIGN ENGINEER RUSS SNYDER, PE

FHWA TRANSPORTATION ENGINEER HILLSBOROUGH COUNTY DIRECTOR, ENGINEERING AND OPERATIONS JOSH BELLOTTI, P.E.

CONCURRING WITH: TYPICAL SECTION ELEMENTS DESIGNS, POSTED & TARGETED SPEEDS CONCURRING WITH: TYPICAL SECTION ELEMENTS

TURNPIKE DISTRICT TRAFFIC OPERATIONS ENGINEER JOHN EASTERLING, PE, PTOE PASCO COUNTY COUNTY ENGINEER NICK UHREN, P.E.

CONCURRING WITH: DESIGN & POSTED SPEEDS CONCURRING WITH: TYPICAL SECTION ELEMENTS
DESIGNS, POSTED & TARGETED SPEEDS

TURNPIKE DISTRICT DESIGN ENGINEER

TURNPIKE DISTRICT INTERMODAL SYSTEMS DEVELOPMENT MANAGER CAROL SCOTT, AICP

CONCURRING WITH: TYPICAL SECTION ELEMENTS DESIGN & POSTED SPEEDS TYPICAL SECTION ELEMENTS

CONCURRING WITH: CONTEXT CLASSIFICATION

FDOT DISTRICT 7 FDOT DISTRICT 7 DISTRICT DESIGN ENGINEER STRUCTURES DESIGN ENGINEER ALLAN URBONAS, PE GAUTOM DEY, PE

FDOT DISTRICT 7 TRAFFIC OPERATIONS ENGINEER RONALD CHIN, P.E.

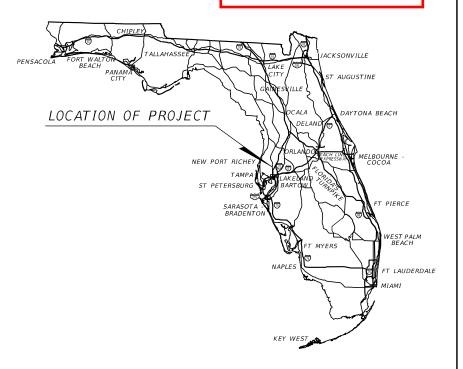
FDOT DISTRICT 7 PROJECT MANAGER CRAIG FOX, P.E.

CONCURRING WITH: TYPICAL SECTION ELEMENTS
DESIGNS, POSTED & TARGETED SPEEDS
(FDOT DISTRICT 7
TYPICAL SECTIONS) BRIDGE TYPICAL SECTION ELEMENTS (FDOT DISTRICT 7

TYPICAL SECTIONS)

CONCURRING WITH: DESIGNS, POSTED & TARGETED SPEEDS (FDOT DISTRICT 7 TYPICAL SECTIONS)

CONCURRING WITH:
CONTEXT CLASSIFICATION,
TYPICAL SECTION ELEMENTS,
AND TARGETED SPEED
(FDOT DISTRICT 7
TYPICAL SECTIONS)



#### CONTEXT CLASSIFICATION

() C1: NATURAL () C3C: SUBURBAN COMM. () C2: RURAL () C4: URBAN GENERAL

() C2T: RURAL TOWN () C5: URBAN CENTER

() C3R: SUBURBAN RES. () C6: URBAN CORE

(X) N/A : L.A. FACILITY

#### FUNCTIONAL CLASSIFICATION

(X) INTERSTATE () MAJOR COLLECTOR
() FREEWAY/EXPWY. () MINOR COLLECTOR

() PRINCIPAL ARTERIAL () LOCAL

( ) MINOR ARTERIAL

#### HIGHWAY SYSTEM

( ) NATIONAL HIGHWAY SYSTEM

() STRATEGIC INTERMODAL SYSTEM

(X) STATE HIGHWAY SYSTEM

() OFF-STATE HIGHWAY SYSTEM

#### ACCESS CLASSIFICATION

(X) 1 - FREEWAY

() 2 - RESTRICTIVE w/Service Roads

() 3 - RESTRICTIVE w/660 ft. Connection Spacing

() 4 - NON-RESTRICTIVE w/2640 ft. Signal Spacing

() 5 - RESTRICTIVE w/440 ft. Connection Spacing

() 6 - NON-RESTRICTIVE w/1320 ft. Signal Spacing

() 7 - BOTH MEDIAN TYPES

#### CRITERIA

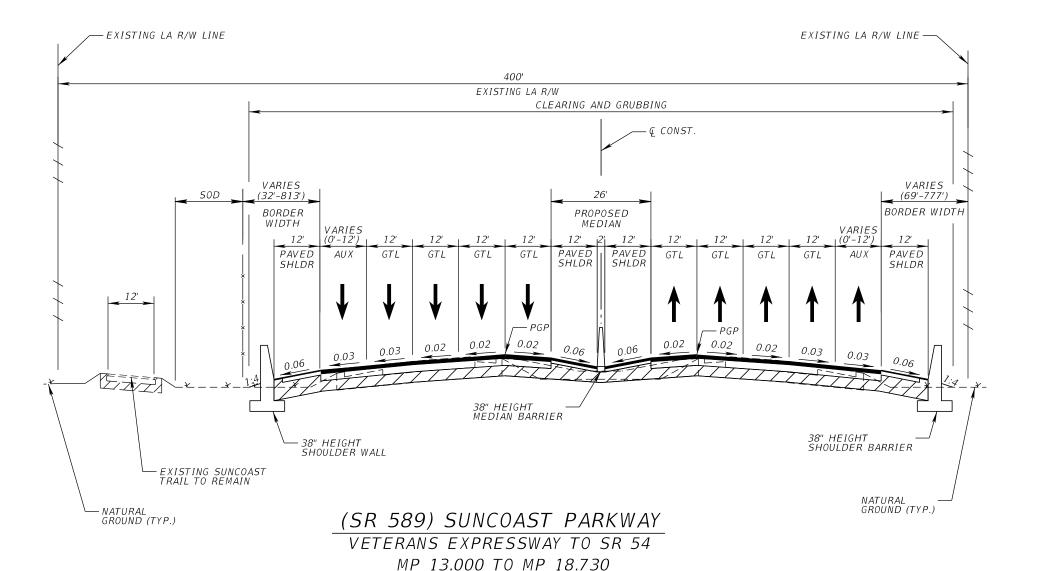
(X) NEW CONSTRUCTION / RECONSTRUCTION

( ) RESURFACING (LA FACILITIES)

() RRR (ARTERIALS & COLLECTORS)

POTENTIAL EXCEPTIONS AND VARIATIONS RELATED TO TYPICAL SECTION:

# DRAFT



N.T.S

#### TRAFFIC DATA

CURRENT YEAR = 2023 AADT = 46600 ESTIMATED OPENING YEAR = 2030 AADT = 61067 ESTIMATED DESIGN YEAR = 2050 AADT = 102400 K = 10% D = 61% T = 12.2% (24 HOUR) DESIGN HOUR T = 6.1% DESIGN SPEED = 70 MPH POSTED SPEED = 60 MPH

FINANCIAL PROJECT ID SHEET NO. 2

#### CONTEXT CLASSIFICATION

() C1: NATURAL () C3C: SUBURBAN COMM. () C2: RURAL () C4: URBAN GENERAL

() C2T: RURAL TOWN () C5: URBAN CENTER

() C3R: SUBURBAN RES. () C6: URBAN CORE

(X) N/A : L.A. FACILITY

#### FUNCTIONAL CLASSIFICATION

(X) INTERSTATE () MAJOR COLLECTOR
() FREEWAY/EXPWY. () MINOR COLLECTOR

() PRINCIPAL ARTERIAL () LOCAL

() MINOR ARTERIAL

#### HIGHWAY SYSTEM

( ) NATIONAL HIGHWAY SYSTEM

() STRATEGIC INTERMODAL SYSTEM

(X) STATE HIGHWAY SYSTEM

() OFF-STATE HIGHWAY SYSTEM

#### ACCESS CLASSIFICATION

(X) 1 - FREEWAY

() 2 - RESTRICTIVE w/Service Roads

() 3 - RESTRICTIVE w/660 ft. Connection Spacing

() 4 - NON-RESTRICTIVE w/2640 ft. Signal Spacing

() 5 - RESTRICTIVE w/440 ft. Connection Spacing

() 6 - NON-RESTRICTIVE w/1320 ft. Signal Spacing

() 7 - BOTH MEDIAN TYPES

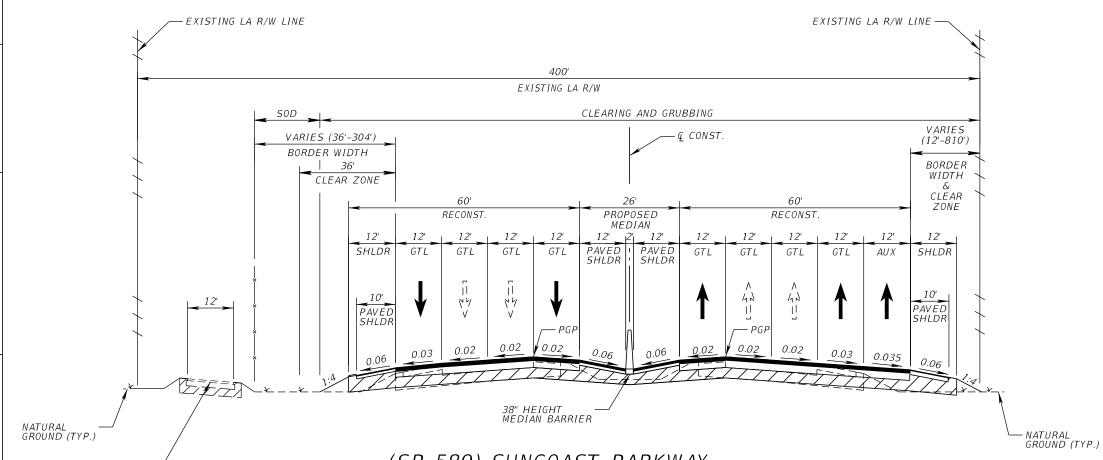
#### CRITERIA

(X) NEW CONSTRUCTION / RECONSTRUCTION

( ) RESURFACING (LA FACILITIES)

() RRR (ARTERIALS & COLLECTORS)

POTENTIAL EXCEPTIONS AND VARIATIONS RELATED TO TYPICAL SECTION:



(SR 589) SUNCOAST PARKWAY
SR 54 TO RANGELAND BLVD

MP 18.730 TO MP 20.068

N.T.S

#### TRAFFIC DATA

EXISTING SUNCOAST TRAIL TO REMAIN

CURRENT YEAR = 2023 AADT = 46600 ESTIMATED OPENING YEAR = 2030 AADT = 61067 ESTIMATED DESIGN YEAR = 2050 AADT = 102400 K = 10% D = 61% T = 12.2% (24 HOUR) DESIGN HOUR T = 6.1% DESIGN SPEED = 70 MPH POSTED SPEED = 70 MPH

FINANCIAL PROJECT ID SHEET NO. 3

**DRAFT** 

#### CONTEXT CLASSIFICATION

() C1: NATURAL () C3C: SUBURBAN COMM.

() C4: URBAN GENERAL () C2T : RURAL TOWN () C5: URBAN CENTER

() C3R: SUBURBAN RES. () C6: URBAN CORE

(X) N/A : L.A. FACILITY

() C2: RURAL

#### FUNCTIONAL CLASSIFICATION

(X) INTERSTATE () MAJOR COLLECTOR () FREEWAY/EXPWY. () MINOR COLLECTOR

( ) PRINCIPAL ARTERIAL () LOCAL

() MINOR ARTERIAL

#### HIGHWAY SYSTEM

( ) NATIONAL HIGHWAY SYSTEM

() STRATEGIC INTERMODAL SYSTEM

(X) STATE HIGHWAY SYSTEM

() OFF-STATE HIGHWAY SYSTEM

#### ACCESS CLASSIFICATION

(X) 1 - FREEWAY

() 2 - RESTRICTIVE w/Service Roads

() 3 - RESTRICTIVE w/660 ft. Connection Spacing

() 4 - NON-RESTRICTIVE w/2640 ft. Signal Spacing

() 5 - RESTRICTIVE w/440 ft. Connection Spacing

() 6 - NON-RESTRICTIVE w/1320 ft. Signal Spacing

() 7 - BOTH MEDIAN TYPES

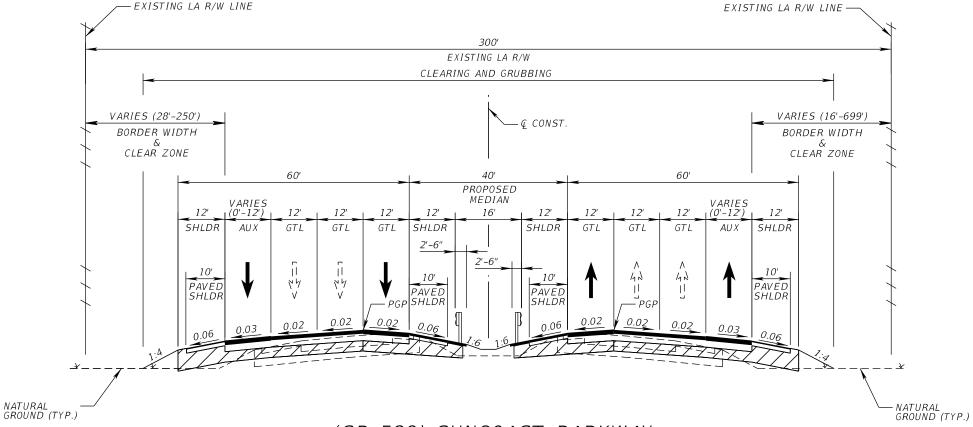
#### CRITERIA

(X) NEW CONSTRUCTION / RECONSTRUCTION

( ) RESURFACING (LA FACILITIES)

() RRR (ARTERIALS & COLLECTORS)

POTENTIAL EXCEPTIONS AND VARIATIONS RELATED TO TYPICAL SECTION:



(SR 589) SUNCOAST PARKWAY RANGELAND BLVD TO NORTH OF SR 52 MP 20.068 TO MP 29.000

#### TRAFFIC DATA

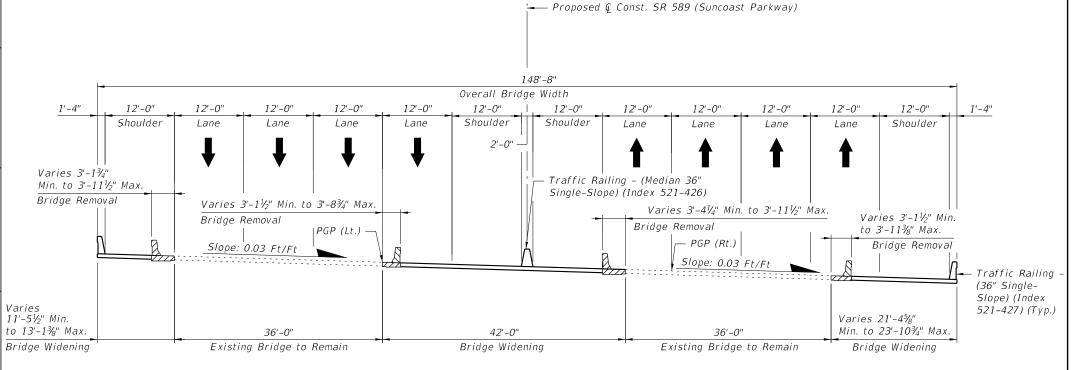
CURRENT YEAR = 2023 AADT = 46600ESTIMATED OPENING YEAR = 2030 AADT = 61067 ESTIMATED DESIGN YEAR = 2050 AADT = 102400 K = 10% D = 61% T = 12.2% (24 HOUR) DESIGN HOUR T = 6.1%DESIGN SPEED = 70 MPH POSTED SPEED = 70 MPH

FINANCIAL PROJECT ID	SHEET NO.
448068-1-22-01	4

**DRAFT** 

#### TYPICAL SECTION No. 4

## DRAFT



#### TYPICAL SECTION

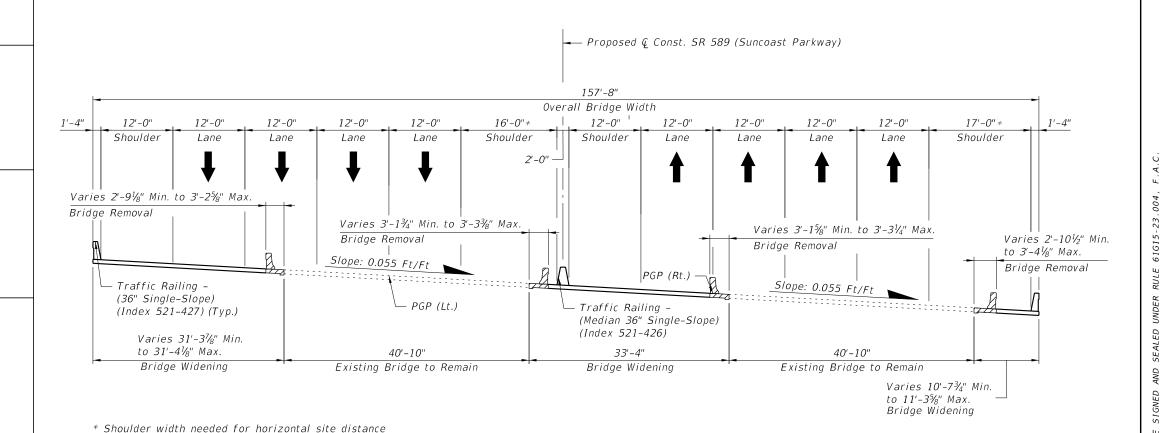
Bridge Nos. 100626 (NB) and 100627 (SB) SR 589 (Suncoast Parkway) over Van Dyke Rd. M.P. 14.2

#### TRAFFIC DATA

CURRENT YEAR 2023 = AADT = 68,600ESTIMATED OPENING YEAR = 2030 AADT = 61,100ESTIMATED DESIGN YEAR = 2050 AADT = 102,400 K = 10% D = 61% T = 12.19% (24 HOUR) DESIGN HOUR T = 6.10%DESIGN SPEED = 70 MPH POSTED SPEED = 70 MPH

FINANCIAL PROJECT ID
SHEET
NO.
448068-1-22-01

## **DRAFT**



#### TYPICAL SECTION

Bridge Nos. 100628 (NB) and 100629 (SB) SR 589 (Suncoast Parkway) over Ramblewood Rd. M.P. 15.2

#### TRAFFIC DATA

CURRENT YEAR = 2023 AADT = 46,600ESTIMATED OPENING YEAR = 2030 AADT = 61,100 ESTIMATED DESIGN YEAR = 2050 AADT = 102,400 K = 10% D = 61% T = 12.19% (24 HOUR) DESIGN HOUR T = 6.1%DESIGN SPEED = 70 MPH POSTED SPEED = 70 MPH

		TON
FINANCIAL PROJECT ID	SHEET NO.	
448068-1-22-01		

### FUNCTIONAL CLASSIFICATION

PROJECT CONTROLS

CONTEXT CLASSIFICATION

() C3C: SUBURBAN COMM.

( ) C4 : URBAN GENERAL

() C5: URBAN CENTER

() C6: URBAN CORE

- (X) INTERSTATE ( ) MAJOR COLLECTOR FREEWAY/EXPWY. ( ) MINOR COLLECTOR
- PRINCIPAL ARTERIAL () LOCAL
- () MINOR ARTERIAL

() C1: NATURAL

C2 : RURAL

(X) N/A : L.A. FACILITY

C2T : RURAL TOWN

C3R : SUBURBAN RES.

#### HIGHWAY SYSTEM

- NATIONAL HIGHWAY SYSTEM
- (X) STRATEGIC INTERMODAL SYSTEM
- STATE HIGHWAY SYSTEM
- OFF-STATE HIGHWAY SYSTEM

#### ACCESS CLASSIFICATION

- (X) 1 FREEWAY
- () 2 RESTRICTIVE w/Service Roads
- () 3 RESTRICTIVE w/660 ft. Connection Spacing
- () 4 NON-RESTRICTIVE w/2640 ft. Signal Spacing
- () 5 RESTRICTIVE w/440 ft. Connection Spacing
- () 6 NON-RESTRICTIVE w/1320 ft. Signal Spacing
- () 7 BOTH MEDIAN TYPES

#### CRITERIA

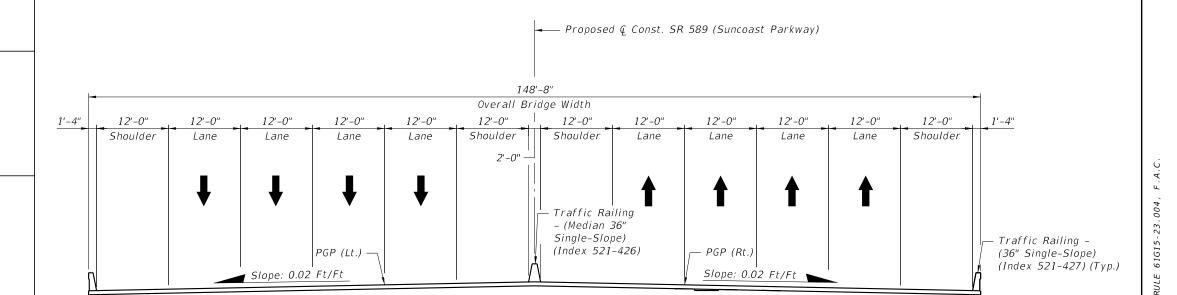
- (X) NEW CONSTRUCTION / RECONSTRUCTION
- RESURFACING (LA FACILITIES)
- () RRR (ARTERIALS & COLLECTORS)

#### POTENTIAL EXCEPTIONS AND VARIATIONS RELATED TO TYPICAL SECTION:

DESIGN VARIATION

DESIGN EXCEPTIONS

## **DRAFT**



#### TYPICAL SECTION

Existing Bridge Nos. 100630 (NB) and 100631 (SB) SR 589 (Suncoast Parkway) over TPC Boulevard M.P. 15.8

CURRENT YEAR 2023 = AADT = 46,600 ESTIMATED OPENING YEAR = 2030 AADT = 61,100 ESTIMATED DESIGN YEAR = 2050 AADT = 102,400 K = 10% D = 61% T = 12.19% (24 HOUR) DESIGN HOUR T = 6.1%DESIGN SPEED = 70 MPH POSTED SPEED = 70 MPH

# SHEET FINANCIAL PROJECT ID NO.

448068-1-22-01

#### (X) N/A : L.A. FACILITY

FUNCTIONAL CLASSIFICATION

C3R: SUBURBAN RES. () C6: URBAN CORE

PROJECT CONTROLS

CONTEXT CLASSIFICATION

() C3C: SUBURBAN COMM.

() C4: URBAN GENERAL

() C5: URBAN CENTER

- (X) INTERSTATE ( ) MAJOR COLLECTOR FREEWAY/EXPWY. ( ) MINOR COLLECTOR
- PRINCIPAL ARTERIAL () LOCAL
- () MINOR ARTERIAL

() C1: NATURAL

() C2T : RURAL TOWN

() C2: RURAL

#### HIGHWAY SYSTEM

- NATIONAL HIGHWAY SYSTEM
- (X) STRATEGIC INTERMODAL SYSTEM
- STATE HIGHWAY SYSTEM
- OFF-STATE HIGHWAY SYSTEM

#### ACCESS CLASSIFICATION

- (X) 1 FREEWAY
- () 2 RESTRICTIVE w/Service Roads
- () 3 RESTRICTIVE w/660 ft. Connection Spacing
- () 4 NON-RESTRICTIVE w/2640 ft. Signal Spacing
- () 5 RESTRICTIVE w/440 ft. Connection Spacing
- () 6 NON-RESTRICTIVE w/1320 ft. Signal Spacing
- () 7 BOTH MEDIAN TYPES

#### CRITERIA

- (X) NEW CONSTRUCTION / RECONSTRUCTION
- ( ) RESURFACING (LA FACILITIES)
- () RRR (ARTERIALS & COLLECTORS)

#### POTENTIAL EXCEPTIONS AND VARIATIONS RELATED TO TYPICAL SECTION:

DESIGN VARIATION

DESIGN EXCEPTIONS

TRAFFIC DATA

- () C1: NATURAL () C3C: SUBURBAN COMM. () C4: URBAN GENERAL () C2: RURAL () C5: URBAN CENTER C2T : RURAL TOWN () C3R: SUBURBAN RES. () C6: URBAN CORE
- (X) N/A: L.A. FACILITY

#### FUNCTIONAL CLASSIFICATION

- (X) INTERSTATE ( ) MAJOR COLLECTOR ( ) MINOR COLLECTOR FREEWAY/EXPWY.
- PRINCIPAL ARTERIAL () LOCAL
- () MINOR ARTERIAL

#### HIGHWAY SYSTEM

- NATIONAL HIGHWAY SYSTEM
- STRATEGIC INTERMODAL SYSTEM
- STATE HIGHWAY SYSTEM
- OFF-STATE HIGHWAY SYSTEM

#### ACCESS CLASSIFICATION

- (X) 1 FREEWAY
- () 2 RESTRICTIVE w/Service Roads
- () 3 RESTRICTIVE w/660 ft. Connection Spacing
- () 4 NON-RESTRICTIVE w/2640 ft. Signal Spacing
- () 5 RESTRICTIVE w/440 ft. Connection Spacing
- () 6 NON-RESTRICTIVE w/1320 ft. Signal Spacing
- () 7 BOTH MEDIAN TYPES

#### CRITERIA

- (X) NEW CONSTRUCTION / RECONSTRUCTION
- ( ) RESURFACING (LA FACILITIES)
- () RRR (ARTERIALS & COLLECTORS)

#### POTENTIAL EXCEPTIONS AND VARIATIONS RELATED TO TYPICAL SECTION:

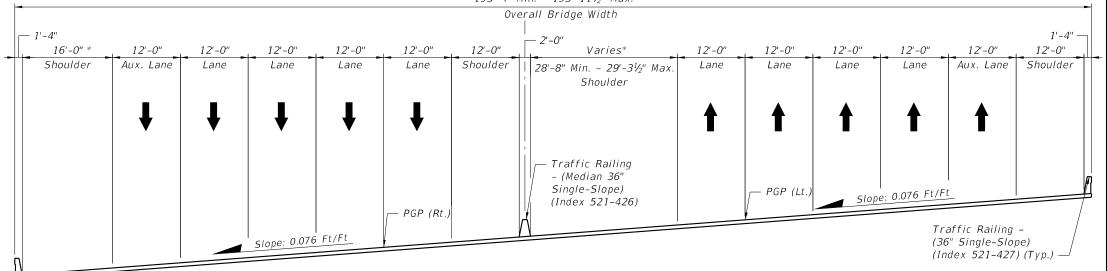
DESIGN VARIATION

DESIGN EXCEPTIONS

#### TYPICAL SECTION No. 7

**DRAFT** 

Proposed © Const. SR 589 (Suncoast Parkway) Varies 193'-4" Min. - 193'-11½" Max.



\* Shoulder width necessary for stopping sight distance

#### TYPICAL SECTION

Existing Bridge Nos. 100632 (NB) and 100633 (SB) SR 589 (Suncoast Parkway) over Lutz Fern Rd. M.P. 16.3

#### TRAFFIC DATA

CURRENT YEAR = 2023 AADT = 46,600ESTIMATED OPENING YEAR = 2030 AADT = 61,100 ESTIMATED DESIGN YEAR = 2050 AADT = 102,400 K = 10% D = 61% T = 12.19% (24 HOUR) DESIGN HOUR T = 6.1%DESIGN SPEED = 70 MPH POSTED SPEED = 70 MPH

> SHEET FINANCIAL PROJECT ID NO. 448068-1-22-01

## DRAFT

#### Proposed © Const. SR 589 (Suncoast Parkway) 174'-1" Overall Bridge Width 87'-9" 86'-4" 1'-4" -12'-0" 12'-0" 12'-0" 12'-0" 1'-0" 12'-5" 12'-0" 12'-0" 12'-0" 12'-0" 12'-0" 12'-0" 12'-0" 12'-0" 12'-0" Shoulder Shoulder Shoulder Trail Shoulder Aux. Lane Lane Lane Lane Lane Lane Lane Lane Aux. Lane 2'-93/4"±-2'-0" Bridge Removal |-Bridge Fencing on Barrier (Curved Top) (Index 550-013) 3'-21/5" 3'-21/2" 2'-93/4"± 12'-0" Bridge Removal Bridge Removal Clear Bridge Removal - PGP (Lt. PGP (Rt.) -Slope: 0.02 Ft/Ft Slope: 0.02 Ft/Ft - Existing Traffic Railing Pedestrian/Bicycle Bullet - Traffic Railing -Barrier with Curved Top Traffic Railing - (36" Railing Details (Post D), (Median 36" Single-Slope) Fence (To be removed) Single- Slope) (Index (Index 515-022) (Index 521-426) 521-427) (Typ.) — 27" Concrete Parapet with Pedestrian/Bicycle Bullet Railing (Index 521-820) 10'-5¾" 55'-111/4" 49'-6" 35'-8" 22'-6" Existing Bridge to Remain Existing Bridge to Remain Bridge Widening Bridge Widening Bridge Widening

#### TYPICAL SECTION

Bridge Nos. 140069 (NB) and 140070 (SB) SR 589 (Suncoast Parkway) over Anclote River M.P. 17.9

### TRAFFIC DATA

CURRENT YEAR 2023 = AADT = 46,600ESTIMATED OPENING YEAR = 2030 AADT = 61,100 ESTIMATED DESIGN YEAR = 2050 AADT = 102,400 K = 10% D = 61% T = 12.19% (24 HOUR) DESIGN HOUR T = 6.1%DESIGN SPEED = 70 MPH POSTED SPEED = 70 MPH

#### SHEET FINANCIAL PROJECT ID NO. 448068-1-22-01

### (X) N/A : L.A. FACILITY

FUNCTIONAL CLASSIFICATION

PROJECT CONTROLS

CONTEXT CLASSIFICATION

() C3C: SUBURBAN COMM.

( ) C4 : URBAN GENERAL

() C5: URBAN CENTER

() C6: URBAN CORE

- (X) INTERSTATE ( ) MAJOR COLLECTOR FREEWAY/EXPWY. ( ) MINOR COLLECTOR
- PRINCIPAL ARTERIAL () LOCAL
- () MINOR ARTERIAL

() C1: NATURAL

C2 : RURAL

C2T : RURAL TOWN

C3R : SUBURBAN RES.

#### HIGHWAY SYSTEM

- NATIONAL HIGHWAY SYSTEM
- (X)STRATEGIC INTERMODAL SYSTEM
- (X)STATE HIGHWAY SYSTEM
- OFF-STATE HIGHWAY SYSTEM

#### ACCESS CLASSIFICATION

- (X) 1 FREEWAY
- () 2 RESTRICTIVE w/Service Roads
- () 3 RESTRICTIVE w/660 ft. Connection Spacing
- () 4 NON-RESTRICTIVE w/2640 ft. Signal Spacing
- () 5 RESTRICTIVE w/440 ft. Connection Spacing
- () 6 NON-RESTRICTIVE w/1320 ft. Signal Spacing
- () 7 BOTH MEDIAN TYPES

#### CRITERIA

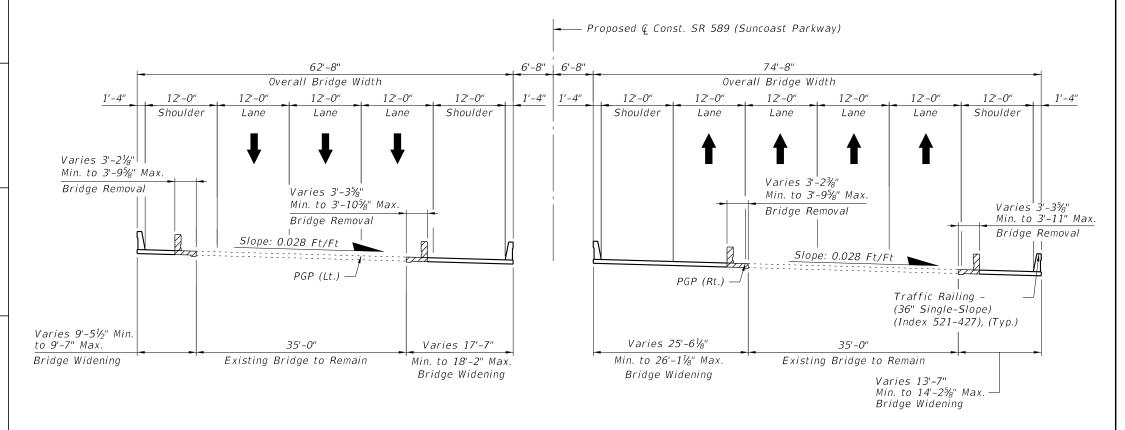
- (X) NEW CONSTRUCTION / RECONSTRUCTION
- RESURFACING (LA FACILITIES)
- RRR (ARTERIALS & COLLECTORS)

#### POTENTIAL EXCEPTIONS AND VARIATIONS RELATED TO TYPICAL SECTION:

DESIGN VARIATION

DESIGN EXCEPTIONS

## DRAFT



### TYPICAL SECTION (NORTHBOUND)

Bridge No. 140072

SR 589 (Suncoast Parkway) over SR 54 M.P. 18.7

### PROJECT CONTROLS

() C1: NATURAL () C3C: SUBURBAN COMM.
() C2: RURAL () C4: URBAN GENERAL
() C2T: RURAL TOWN () C5: URBAN CENTER

CONTEXT CLASSIFICATION

() C3R: SUBURBAN RES. () C6: URBAN CORE

(X) N/A : L.A. FACILITY

#### FUNCTIONAL CLASSIFICATION

(X) INTERSTATE () MAJOR COLLECTOR
() FREEWAY/EXPWY. () MINOR COLLECTOR

() PRINCIPAL ARTERIAL () LOCAL

( ) MINOR ARTERIAL

#### HIGHWAY SYSTEM

(X) NATIONAL HIGHWAY SYSTEM

(X) STRATEGIC INTERMODAL SYSTEM

(X) STATE HIGHWAY SYSTEM

() OFF-STATE HIGHWAY SYSTEM

#### ACCESS CLASSIFICATION

(X) 1 - FREEWAY

() 2 - RESTRICTIVE w/Service Roads

() 3 - RESTRICTIVE w/660 ft. Connection Spacing

() 4 - NON-RESTRICTIVE w/2640 ft. Signal Spacing

() 5 - RESTRICTIVE w/440 ft. Connection Spacing

() 6 - NON-RESTRICTIVE w/1320 ft. Signal Spacing

( ) 0 - NON-NESTATETIVE W/1520 It. Signal Space

() 7 - BOTH MEDIAN TYPES

#### CRITERIA

(X) NEW CONSTRUCTION / RECONSTRUCTION

( ) RESURFACING (LA FACILITIES)

() RRR (ARTERIALS & COLLECTORS)

### POTENTIAL EXCEPTIONS AND VARIATIONS RELATED TO TYPICAL SECTION:

DESIGN VARIATION

DESIGN EXCEPTIONS

#### TRAFFIC DATA

TYPICAL SECTION (SOUTHBOUND)

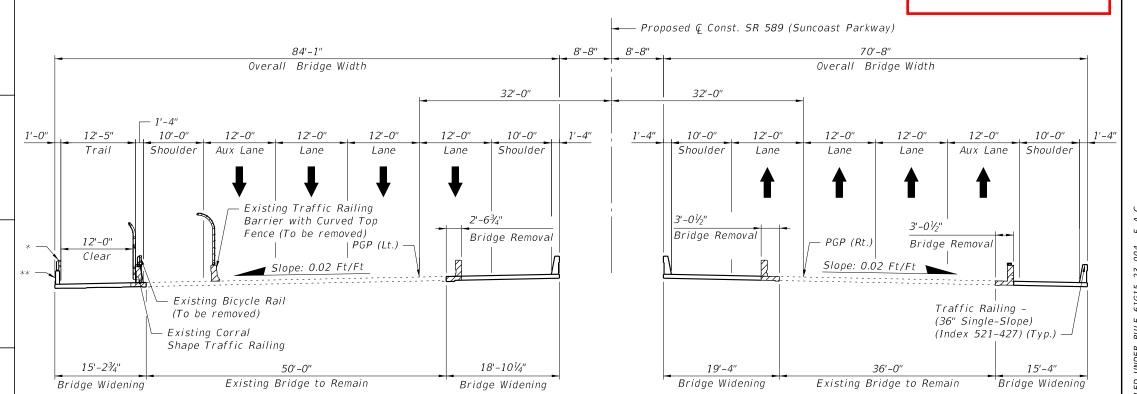
Bridge No. 140073

CURRENT YEAR = 2023 AADT = 46,60ESTIMATED OPENING YEAR = 2030 AADT = 67,400ESTIMATED DESIGN YEAR = 2050 AADT = 126,800K = 10% D = 61% T = 12.19% (24 HOUR) DESIGN HOUR T = 6.1%DESIGN SPEED = 70 MPH POSTED SPEED = 70 MPH T

FINANCIAL PROJECT ID
SHEET NO.
448068-1-22-01

### PROJECT CONTROLS TYPICAL SECTION No. 10

## DRAFT



### TYPICAL SECTION (SOUTHBOUND) Bridge No. 140075

TYPICAL SECTION (NORTHBOUND)

Bridge No. 140074

SR 589 (Suncoast Parkway) over Sandy Branch River M.P. 20.5

#### CRITERIA

CONTEXT CLASSIFICATION

FUNCTIONAL CLASSIFICATION

HIGHWAY SYSTEM

ACCESS CLASSIFICATION

() LOCAL

() C3C: SUBURBAN COMM.

( ) C4 : URBAN GENERAL

() C5: URBAN CENTER

() C6: URBAN CORE

( ) MAJOR COLLECTOR

( ) MINOR COLLECTOR

() C1: NATURAL

C2 : RURAL

(X) N/A : L.A. FACILITY

(X) INTERSTATE

() MINOR ARTERIAL

(X) 1 - FREEWAY

(X)

(X)

C2T : RURAL TOWN

FREEWAY/EXPWY.

PRINCIPAL ARTERIAL

NATIONAL HIGHWAY SYSTEM

STATE HIGHWAY SYSTEM

OFF-STATE HIGHWAY SYSTEM

() 2 - RESTRICTIVE w/Service Roads

() 3 - RESTRICTIVE w/660 ft. Connection Spacing
 () 4 - NON-RESTRICTIVE w/2640 ft. Signal Spacing
 () 5 - RESTRICTIVE w/440 ft. Connection Spacing

() 6 - NON-RESTRICTIVE w/1320 ft. Signal Spacing

STRATEGIC INTERMODAL SYSTEM

C3R : SUBURBAN RES.

- (X) NEW CONSTRUCTION / RECONSTRUCTION
- () RESURFACING (LA FACILITIES)

() 7 - BOTH MEDIAN TYPES

() RRR (ARTERIALS & COLLECTORS)

## POTENTIAL EXCEPTIONS AND VARIATIONS RELATED TO TYPICAL SECTION:

DESIGN VARIATION

DESIGN EXCEPTIONS

\* - Pedestrian/Bicycle Bullet Railing Details (Post D), (Index 515-022)

Legend

\*\* - 27" Concrete Parapet with Pedestrian/Bicycle Bullet Railing (Index 521-820)

#### TRAFFIC DATA

CURRENT YEAR = 2023 ADT = 43,000ESTIMATED OPENING YEAR = 2030 AADT = 50,100ESTIMATED DESIGN YEAR = 2050 AADT = 70,400 K = 10% D = 61% T = 12.19% (24 HOUR) DESIGN HOUR T = 6.1%DESIGN SPEED = 70 MPH POSTED SPEED = 70 MPH

FINANCIAL PROJECT ID
SHEET
NO.
448068-1-22-01

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() C2: RURAL

() C4: URBAN GENERAL

C2T : RURAL TOWN

() C5: URBAN CENTER () C3R: SUBURBAN RES. () C6: URBAN CORE

(X) N/A: L.A. FACILITY

#### FUNCTIONAL CLASSIFICATION

(X) INTERSTATE

( ) MAJOR COLLECTOR

FREEWAY/EXPWY.

( ) MINOR COLLECTOR

PRINCIPAL ARTERIAL

() LOCAL

() MINOR ARTERIAL

#### HIGHWAY SYSTEM

NATIONAL HIGHWAY SYSTEM

(X)STRATEGIC INTERMODAL SYSTEM

(X) STATE HIGHWAY SYSTEM

OFF-STATE HIGHWAY SYSTEM

#### ACCESS CLASSIFICATION

(X) 1 - FREEWAY

() 2 - RESTRICTIVE w/Service Roads

() 3 - RESTRICTIVE w/660 ft. Connection Spacing

() 4 - NON-RESTRICTIVE w/2640 ft. Signal Spacing

() 5 - RESTRICTIVE w/440 ft. Connection Spacing

() 6 - NON-RESTRICTIVE w/1320 ft. Signal Spacing

() 7 - BOTH MEDIAN TYPES

#### CRITERIA

(X) NEW CONSTRUCTION / RECONSTRUCTION

RESURFACING (LA FACILITIES)

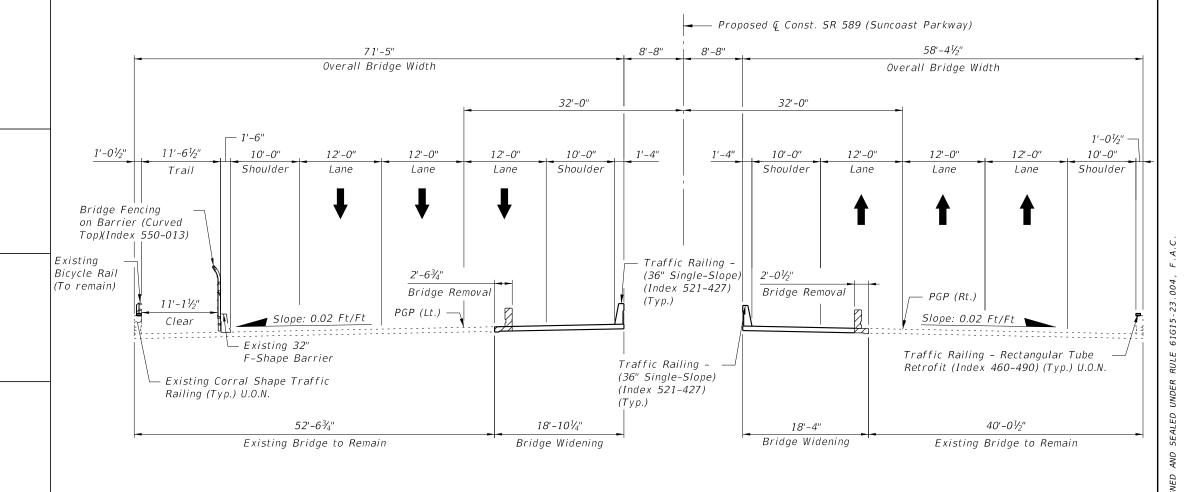
() RRR (ARTERIALS & COLLECTORS)

#### POTENTIAL EXCEPTIONS AND VARIATIONS RELATED TO TYPICAL SECTION:

DESIGN VARIATION

DESIGN EXCEPTIONS

TYPICAL SECTION No. 11



TYPICAL SECTION (SOUTHBOUND) Bridge No. 140077

TYPICAL SECTION (NORTHBOUND) Bridge No. 140076

SR 589 (Suncoast Parkway) over Anclote River M.P. 22

#### TRAFFIC DATA

CURRENT YEAR = 2023 AADT = 43,000ESTIMATED OPENING YEAR = 2030 AADT = 50,100 ESTIMATED DESIGN YEAR = 2050 AADT = 70,400 K = 10% D = 61% T = 12.19% (24 HOUR) DESIGN HOUR T = 6.1%DESIGN SPEED = 70 MPH POSTED SPEED = 70 MPH

DRAFT

SHEET FINANCIAL PROJECT ID NO. 448068-1-22-01

#### CONTEXT CLASSIFICATION

() C1: NATURAL () C3C: SUBURBAN COMM.

() C2: RURAL () C4: URBAN GENERAL

() C2T: RURAL TOWN () C5: URBAN CENTER

() C3R: SUBURBAN RES. () C6: URBAN CORE

(X) N/A : L.A. FACILITY

#### FUNCTIONAL CLASSIFICATION

(X) INTERSTATE () MAJOR COLLECTOR
() FREEWAY/EXPWY. () MINOR COLLECTOR

() PRINCIPAL ARTERIAL () LOCAL

() MINOR ARTERIAL

#### HIGHWAY SYSTEM

(X) NATIONAL HIGHWAY SYSTEM

(X) STRATEGIC INTERMODAL SYSTEM

X) STATE HIGHWAY SYSTEM

() OFF-STATE HIGHWAY SYSTEM

#### ACCESS CLASSIFICATION

(X) 1 - FREEWAY

() 2 - RESTRICTIVE w/Service Roads

() 3 - RESTRICTIVE w/660 ft. Connection Spacing

() 4 - NON-RESTRICTIVE w/2640 ft. Signal Spacing

() 5 - RESTRICTIVE w/440 ft. Connection Spacing

() 6 - NON-RESTRICTIVE w/1320 ft. Signal Spacing

() 7 - BOTH MEDIAN TYPES

#### CRITERIA

(X) NEW CONSTRUCTION / RECONSTRUCTION

() RESURFACING (LA FACILITIES)

() RRR (ARTERIALS & COLLECTORS)

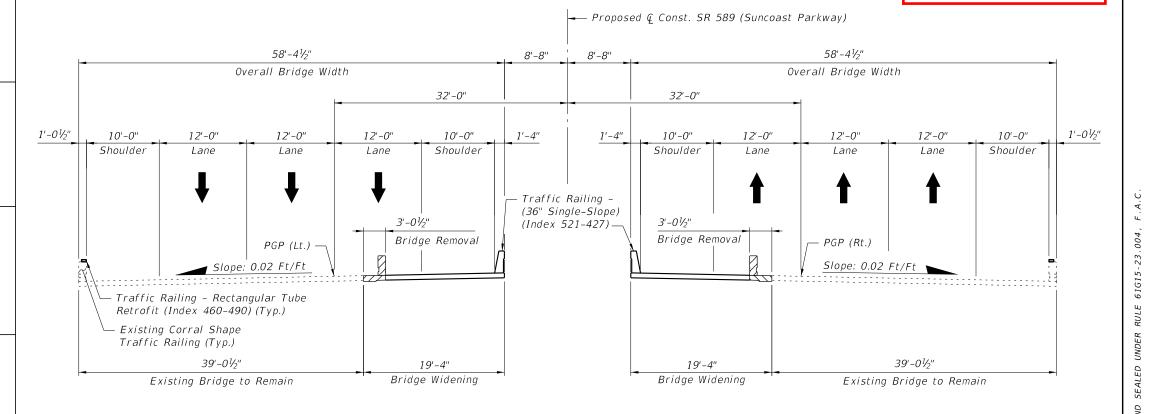
### POTENTIAL EXCEPTIONS AND VARIATIONS RELATED TO TYPICAL SECTION:

DESIGN VARIATION

DESIGN EXCEPTIONS

#### TYPICAL SECTION No. 12

## **DRAFT**



#### TYPICAL SECTION (SOUTHBOUND)

Bridge No. 140090

TYPICAL SECTION (NORTHBOUND)

Bridge No. 140089

SR 589 (Suncoast Parkway) over Ridge Road M.P. 25.2

#### TRAFFIC DATA

CURRENT YEAR = 2023 AADT = 43,000ESTIMATED OPENING YEAR = 2023 AADT = 50,100ESTIMATED DESIGN YEAR = 2050 AADT = 70,400K = 10% D = 61% T = 12.19% (24 HOUR) DESIGN HOUR T = 6.1%DESIGN SPEED = 70 MPH POSTED SPEED = 70 MPH

FINANCIAL PROJECT ID
SHEET
NO.
448068-1-22-01

( ) C3C : SUBURBAN COMM.

() C4: URBAN GENERAL() C5: URBAN CENTER

#### TYPICAL SECTION No. 13

## DRAFT

#### Proposed & Const. SR 589 (Suncoast Parkway) 58'-4<sup>1</sup>/<sub>2</sub>" 71'-5" 8'-8" 8'-8" Overall Bridge Width Overall Bridge Width 32'-0" 32'-0" 1'-01/2" -1'-6" 1'-01/2" 11'-61/5" 1'-4" 10'-0" 12'-0" 12'-0" 12'-0" 10'-0" 1'-4" 10'-0" 12'-0" 12'-0" 12'-0" 10'-0" Shoulder Shoulder Shoulder Trail Shoulder Lane Lane Lane Lane Lane Lane Bridge Fencing on Barrier (Curved (Top) (Index 550-013) Traffic Railing --Traffic Railing -2'-63/4" 3'-01/2" Rectangular Tube (36" Single-Slope) Retrofit (Index 460-490) Bridge Removal Bridge Removal (Index 521-427) 11'-11/5" - PGP (Rt.) PGP (Lt.) — Clear Slope: 0.02 Ft/Ft Slope: 0.02 Ft/Ft — Existing Bicycle Rail (To remain) - Existing Corral Shape Traffic

18'-101/4"

Bridge Widening

## TYPICAL SECTION (SOUTHBOUND) Bridge No. 140079

52'-63/1"

Existing Bridge to Remain

TYPICAL SECTION (NORTHBOUND)

Bridge No. 140078

39'-01/2"

Existing Bridge to Remain

SR 589 (Suncoast Parkway) over Five Mile Creek M.P. 25.8

19'-4"

Bridge Widening

#### FUNCTIONAL CLASSIFICATION

(X) INTERSTATE () MAJOR COLLECTOR
() FREEWAY/EXPWY. () MINOR COLLECTOR

() C3R: SUBURBAN RES. () C6: URBAN CORE

- () PRINCIPAL ARTERIAL () LOCAL
- () MINOR ARTERIAL

() C1: NATURAL

C2T : RURAL TOWN

(X) N/A: L.A. FACILITY

() C2: RURAL

#### HIGHWAY SYSTEM

- (X) NATIONAL HIGHWAY SYSTEM
- (X) STRATEGIC INTERMODAL SYSTEM
- (X) STATE HIGHWAY SYSTEM
- () OFF-STATE HIGHWAY SYSTEM

#### ACCESS CLASSIFICATION

- (X) 1 FREEWAY
- () 2 RESTRICTIVE w/Service Roads
- () 3 RESTRICTIVE w/660 ft. Connection Spacing
- ( ) 4 NON-RESTRICTIVE w/2640 ft. Signal Spacing
- () 5 RESTRICTIVE w/440 ft. Connection Spacing
- () 6 NON-RESTRICTIVE w/1320 ft. Signal Spacing
- () 7 BOTH MEDIAN TYPES

#### CRITERIA

- (X) NEW CONSTRUCTION / RECONSTRUCTION
- () RESURFACING (LA FACILITIES)
- () RRR (ARTERIALS & COLLECTORS)

### POTENTIAL EXCEPTIONS AND VARIATIONS RELATED TO TYPICAL SECTION:

DESIGN VARIATION

DESIGN EXCEPTIONS

#### TRAFFIC DATA

Railing (Typ.) U.O.N.

CURRENT YEAR = 2023 AADT = 43,000ESTIMATED OPENING YEAR = 2030 AADT = 50,100ESTIMATED DESIGN YEAR = 2050 AADT = 70,400K = 10% D = 61% T = 12.19% (24 HOUR) DESIGN HOUR T = 6.1%DESIGN SPEED = 70 MPH POSTED SPEED = 70 MPH

FINANCIAL PROJECT ID
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NO.
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- () C1: NATURAL ( ) C3C : SUBURBAN COMM. () C2: RURAL () C4: URBAN GENERAL () C5: URBAN CENTER C2T : RURAL TOWN
- () C3R: SUBURBAN RES. () C6: URBAN CORE
- (X) N/A: L.A. FACILITY

#### FUNCTIONAL CLASSIFICATION

- (X) INTERSTATE ( ) MAJOR COLLECTOR ( ) MINOR COLLECTOR FREEWAY/EXPWY.
- PRINCIPAL ARTERIAL () LOCAL
- () MINOR ARTERIAL

#### HIGHWAY SYSTEM

- NATIONAL HIGHWAY SYSTEM
- (X)STRATEGIC INTERMODAL SYSTEM
- (X) STATE HIGHWAY SYSTEM
- OFF-STATE HIGHWAY SYSTEM

#### ACCESS CLASSIFICATION

- (X) 1 FREEWAY
- () 2 RESTRICTIVE w/Service Roads
- () 3 RESTRICTIVE w/660 ft. Connection Spacing
- () 4 NON-RESTRICTIVE w/2640 ft. Signal Spacing
- () 5 RESTRICTIVE w/440 ft. Connection Spacing
- () 6 NON-RESTRICTIVE w/1320 ft. Signal Spacing
- () 7 BOTH MEDIAN TYPES

#### CRITERIA

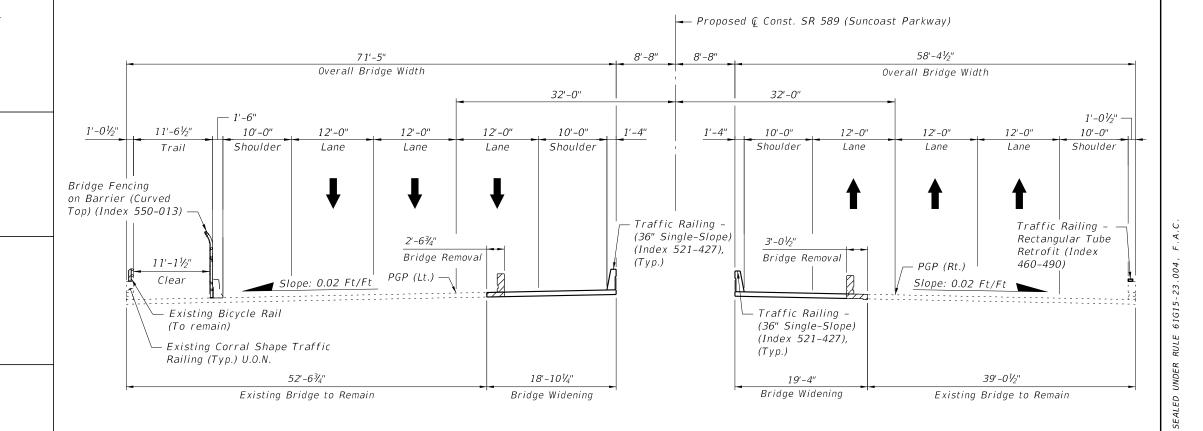
- (X) NEW CONSTRUCTION / RECONSTRUCTION
- RESURFACING (LA FACILITIES)
- () RRR (ARTERIALS & COLLECTORS)

#### POTENTIAL EXCEPTIONS AND VARIATIONS RELATED TO TYPICAL SECTION:

DESIGN VARIATION

DESIGN EXCEPTIONS

#### TYPICAL SECTION No. 14



#### TYPICAL SECTION (SOUTHBOUND) Bridge No. 140081

TYPICAL SECTION (NORTHBOUND) Bridge No. 140080

SR 589 (Suncoast Parkway) over Pithlachascotee River M.P. 26.9

#### TRAFFIC DATA

CURRENT YEAR = 2023 AADT = 43,000ESTIMATED OPENING YEAR = 2030 AADT = 50,100 ESTIMATED DESIGN YEAR = 2050 AADT = 70,400 K = 10% D = 61% T = 12.19% (24 HOUR) DESIGN HOUR T = 6.1%DESIGN SPEED = 70 MPH POSTED SPEED = 70 MPH

DRAFT

SHEET FINANCIAL PROJECT ID NO. 448068-1-22-01

- () C1: NATURAL () C3C: SUBURBAN COMM.
  () C2: RURAL () C4: URBAN GENERAL
  () C2T: RURAL TOWN () C5: URBAN CENTER
  () C3R: SUBURBAN RES. () C6: URBAN CORE
- (X) N/A : L.A. FACILITY

#### FUNCTIONAL CLASSIFICATION

- (X) INTERSTATE () MAJOR COLLECTOR
  () FREEWAY/EXPWY. () MINOR COLLECTOR
- () PRINCIPAL ARTERIAL () LOCAL
- () MINOR ARTERIAL

#### HIGHWAY SYSTEM

- (X) NATIONAL HIGHWAY SYSTEM
- (X) STRATEGIC INTERMODAL SYSTEM
- (X) STATE HIGHWAY SYSTEM
- () OFF-STATE HIGHWAY SYSTEM

#### ACCESS CLASSIFICATION

- (X) 1 FREEWAY
- () 2 RESTRICTIVE w/Service Roads
- () 3 RESTRICTIVE w/660 ft. Connection Spacing
- ( ) 4 NON-RESTRICTIVE w/2640 ft. Signal Spacing
- () 5 RESTRICTIVE w/440 ft. Connection Spacing
- () 6 NON-RESTRICTIVE w/1320 ft. Signal Spacing
- () 7 BOTH MEDIAN TYPES

#### CRITERIA

- (X) NEW CONSTRUCTION / RECONSTRUCTION
- ( ) RESURFACING (LA FACILITIES)
- () RRR (ARTERIALS & COLLECTORS)

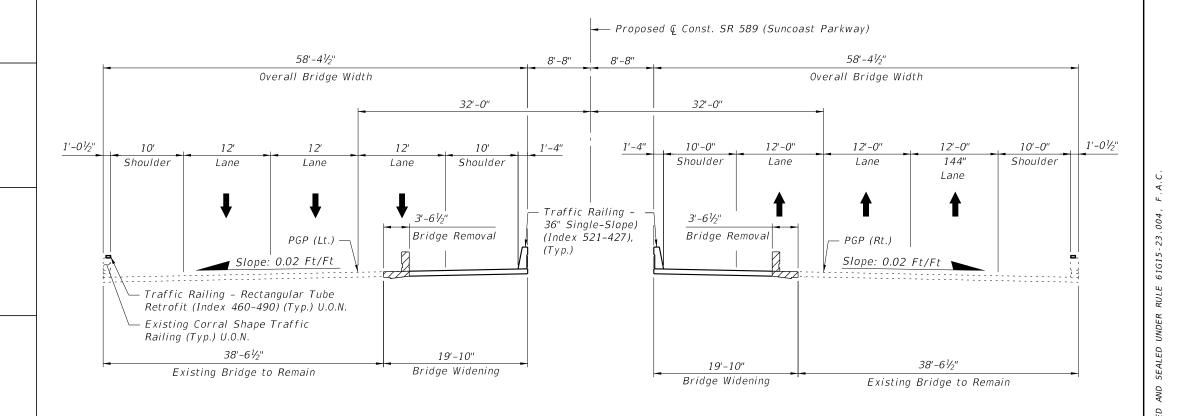
### POTENTIAL EXCEPTIONS AND VARIATIONS RELATED TO TYPICAL SECTION:

DESIGN VARIATION

DESIGN EXCEPTIONS

#### TYPICAL SECTION No. 15

## DRAFT



#### TYPICAL SECTION (SOUTHBOUND)

Bridge No. 140083

#### TYPICAL SECTION (NORTHBOUND)

Bridge No. 140082

SR 589 (Suncoast Parkway) over SR 52 M.P. 28.5

#### TRAFFIC DATA

CURRENT YEAR = 2023 AADT = 43,000ESTIMATED OPENING YEAR = 2030 AADT = 50,100ESTIMATED DESIGN YEAR = 2050 AADT = 70,400 K = 10% D = 61% T = 12.19% (24 HOUR) DESIGN HOUR T = 6.1%DESIGN SPEED = 70 MPH POSTED SPEED = 70 MPH

FINANCIAL PROJECT ID
SHEET
NO.
448068-1-22-01

# DRAFT

## CONTEXT CLASSIFICATION

PROJECT CONTROLS

() C1: NATURAL () C3C: SUBURBAN COMM.

() C2: RURAL () C4: URBAN GENERAL

() C2T: RURAL TOWN () C5: URBAN CENTER

() C3R: SUBURBAN RES. () C6: URBAN CORE

(X) N/A: L.A. FACILITY

### FUNCTIONAL CLASSIFICATION

() INTERSTATE () MAJOR COLLECTOR
() FREEWAY/EXPWY. () MINOR COLLECTOR

() PRINCIPAL ARTERIAL () LOCAL

( ) MINOR ARTERIAL

### HIGHWAY SYSTEM

( ) NATIONAL HIGHWAY SYSTEM

() STRATEGIC INTERMODAL SYSTEM

STATE HIGHWAY SYSTEM

() OFF-STATE HIGHWAY SYSTEM

## ACCESS CLASSIFICATION

() 1 - FREEWAY

() 2 - RESTRICTIVE w/Service Roads

() 3 - RESTRICTIVE w/660 ft. Connection Spacing

() 4 - NON-RESTRICTIVE w/2640 ft. Signal Spacing

() 5 - RESTRICTIVE w/440 ft. Connection Spacing

() 6 - NON-RESTRICTIVE w/1320 ft. Signal Spacing

() 7 - BOTH MEDIAN TYPES

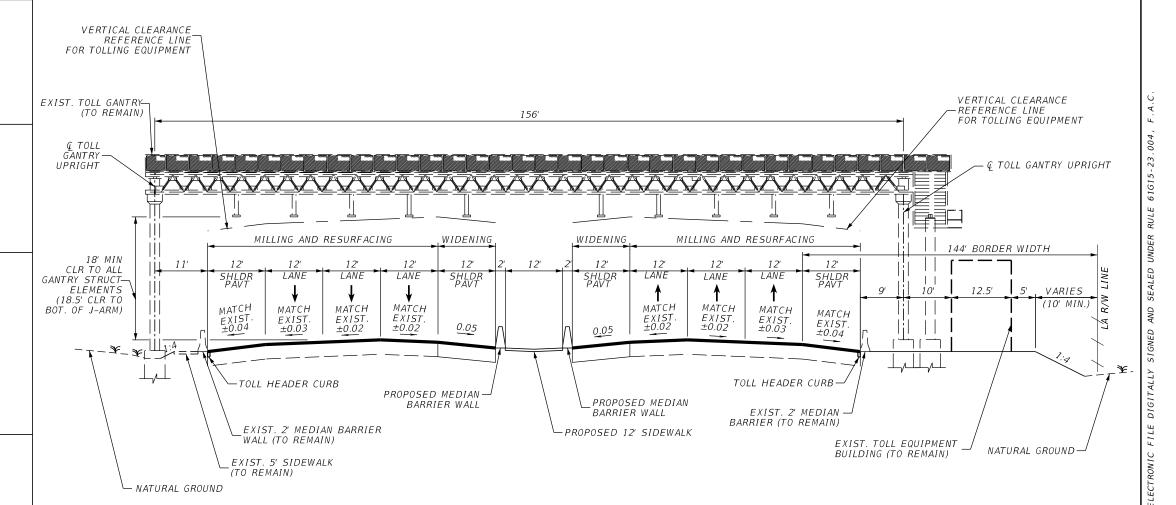
### CRITERIA

( ) NEW CONSTRUCTION / RECONSTRUCTION

( ) RESURFACING (LA FACILITIES)

() RRR (ARTERIALS & COLLECTORS)

POTENTIAL EXCEPTIONS AND VARIATIONS RELATED TO TYPICAL SECTION:



(SR 589) SUNCOAST PARKWAY

EXISTING MAINLINE TOLL SITE 7R N.T.S

FINANCIAL PROJECT ID SHEET NO.

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# **DRAFT**

## CONTEXT CLASSIFICATION

PROJECT CONTROLS

() C1: NATURAL () C3C: SUBURBAN COMM.

() C2: RURAL () C4: URBAN GENERAL

() C2T: RURAL TOWN () C5: URBAN CENTER

() C3R: SUBURBAN RES. () C6: URBAN CORE

(X) N/A : L.A. FACILITY

## FUNCTIONAL CLASSIFICATION

() INTERSTATE () MAJOR COLLECTOR
() FREEWAY/EXPWY. () MINOR COLLECTOR
() PRINCIPAL ARTERIAL () LOCAL

() MINOR ARTERIAL

## HIGHWAY SYSTEM

() NATIONAL HIGHWAY SYSTEM

( ) STRATEGIC INTERMODAL SYSTEM

) STATE HIGHWAY SYSTEM

() OFF-STATE HIGHWAY SYSTEM

## ACCESS CLASSIFICATION

() 1 - FREEWAY

() 2 - RESTRICTIVE w/Service Roads

() 3 - RESTRICTIVE w/660 ft. Connection Spacing

() 4 - NON-RESTRICTIVE w/2640 ft. Signal Spacing

() 5 - RESTRICTIVE w/440 ft. Connection Spacing

() 6 - NON-RESTRICTIVE w/1320 ft. Signal Spacing

() 7 - BOTH MEDIAN TYPES

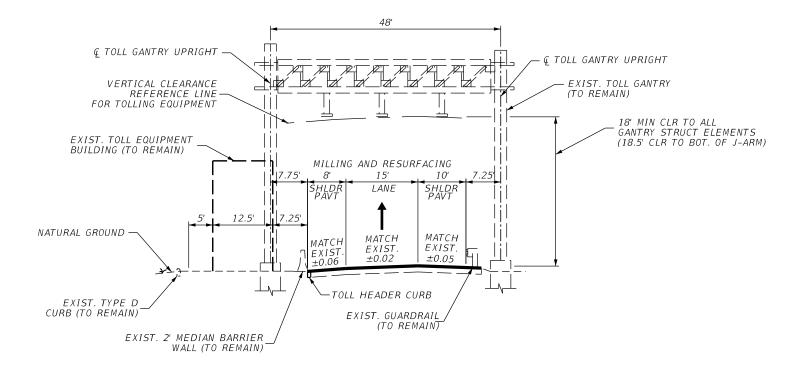
## CRITERIA

() NEW CONSTRUCTION / RECONSTRUCTION

( ) RESURFACING (LA FACILITIES)

() RRR (ARTERIALS & COLLECTORS)

POTENTIAL EXCEPTIONS AND VARIATIONS RELATED TO TYPICAL SECTION:



## (SR 589) SUNCOAST PARKWAY

EXISTING NORTHBOUND ON-RAMP AT VAN DYKE RD TOLL SITE 1R N.T.S

## DRAFT

## CONTEXT CLASSIFICATION

PROJECT CONTROLS

() C1: NATURAL () C3C: SUBURBAN COMM.

() C2: RURAL () C4: URBAN GENERAL

() C2T: RURAL TOWN () C5: URBAN CENTER

() C3R: SUBURBAN RES. () C6: URBAN CORE

(X) N/A : L.A. FACILITY

## FUNCTIONAL CLASSIFICATION

() INTERSTATE () MAJOR COLLECTOR
() FREEWAY/EXPWY. () MINOR COLLECTOR
() PRINCIPAL ARTERIAL () LOCAL

() MINOR ARTERIAL

## HIGHWAY SYSTEM

( ) NATIONAL HIGHWAY SYSTEM

() STRATEGIC INTERMODAL SYSTEM

) STATE HIGHWAY SYSTEM

() OFF-STATE HIGHWAY SYSTEM

## ACCESS CLASSIFICATION

() 1 - FREEWAY

() 2 - RESTRICTIVE w/Service Roads

() 3 - RESTRICTIVE w/660 ft. Connection Spacing

() 4 - NON-RESTRICTIVE w/2640 ft. Signal Spacing

() 5 - RESTRICTIVE w/440 ft. Connection Spacing

() 6 - NON-RESTRICTIVE w/1320 ft. Signal Spacing

() 7 - BOTH MEDIAN TYPES

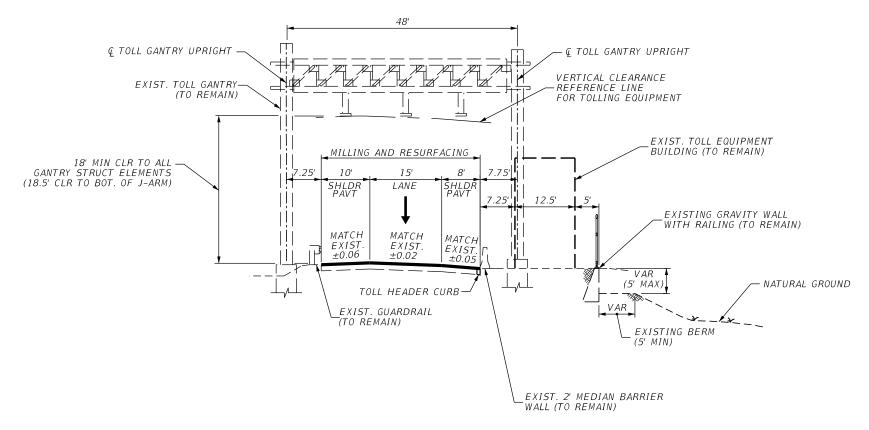
## CRITERIA

() NEW CONSTRUCTION / RECONSTRUCTION

( ) RESURFACING (LA FACILITIES)

() RRR (ARTERIALS & COLLECTORS)

POTENTIAL EXCEPTIONS AND VARIATIONS RELATED TO TYPICAL SECTION:



## (SR 589) SUNCOAST PARKWAY

EXISTING SOUTHBOUND OFF-RAMP AT VAN DYKE RD TOLL SITE 2R N.T.S

## DRAFT

## CONTEXT CLASSIFICATION

PROJECT CONTROLS

() C1: NATURAL () C3C: SUBURBAN COMM. () C4: URBAN GENERAL () C2: RURAL () C5: URBAN CENTER C2T : RURAL TOWN () C3R: SUBURBAN RES. () C6: URBAN CORE

(X) N/A : L.A. FACILITY

## FUNCTIONAL CLASSIFICATION

() INTERSTATE () MAJOR COLLECTOR FREEWAY/EXPWY. () MINOR COLLECTOR

PRINCIPAL ARTERIAL () LOCAL

() MINOR ARTERIAL

## HIGHWAY SYSTEM

NATIONAL HIGHWAY SYSTEM

STRATEGIC INTERMODAL SYSTEM

STATE HIGHWAY SYSTEM

OFF-STATE HIGHWAY SYSTEM

## ACCESS CLASSIFICATION

() 1 - FREEWAY

() 2 - RESTRICTIVE w/Service Roads

() 3 - RESTRICTIVE w/660 ft. Connection Spacing

() 4 - NON-RESTRICTIVE w/2640 ft. Signal Spacing

() 5 - RESTRICTIVE w/440 ft. Connection Spacing

() 6 - NON-RESTRICTIVE w/1320 ft. Signal Spacing

() 7 - BOTH MEDIAN TYPES

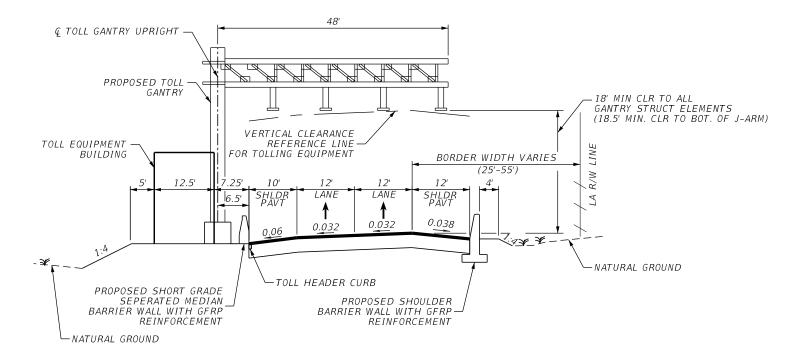
## CRITERIA

( ) NEW CONSTRUCTION / RECONSTRUCTION

RESURFACING (LA FACILITIES)

() RRR (ARTERIALS & COLLECTORS)

POTENTIAL EXCEPTIONS AND VARIATIONS RELATED TO TYPICAL SECTION:



## (SR 589) SUNCOAST PARKWAY

PROPOSED NORTHBOUND OFF-RAMP AT SR 54 (TDI) TOLL SITE 3 N.T.S

## DRAFT

## CONTEXT CLASSIFICATION

PROJECT CONTROLS

() C1: NATURAL () C3C: SUBURBAN COMM.

() C2: RURAL () C4: URBAN GENERAL

() C2T: RURAL TOWN () C5: URBAN CENTER

() C3R: SUBURBAN RES. () C6: URBAN CORE

(X) N/A : L.A. FACILITY

## FUNCTIONAL CLASSIFICATION

() INTERSTATE () MAJOR COLLECTOR () FREEWAY/EXPWY. () MINOR COLLECTOR

() MINOR ARTERIAL

## HIGHWAY SYSTEM

() LOCAL

( ) NATIONAL HIGHWAY SYSTEM

PRINCIPAL ARTERIAL

( ) STRATEGIC INTERMODAL SYSTEM

) STATE HIGHWAY SYSTEM

() OFF-STATE HIGHWAY SYSTEM

## ACCESS CLASSIFICATION

() 1 - FREEWAY

() 2 - RESTRICTIVE w/Service Roads

() 3 - RESTRICTIVE w/660 ft. Connection Spacing

() 4 - NON-RESTRICTIVE w/2640 ft. Signal Spacing

() 5 - RESTRICTIVE w/440 ft. Connection Spacing

() 6 - NON-RESTRICTIVE w/1320 ft. Signal Spacing

() 7 - BOTH MEDIAN TYPES

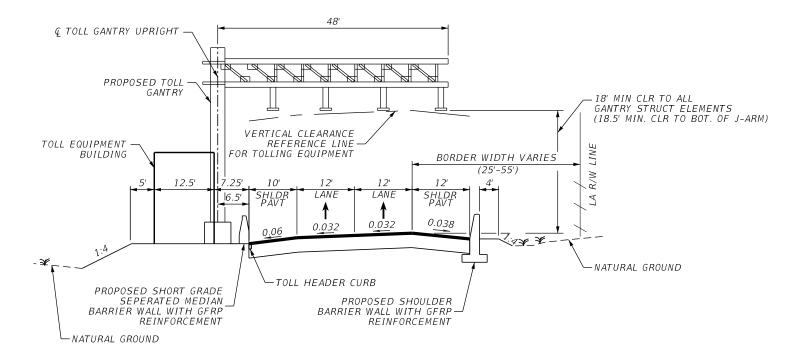
## CRITERIA

( ) NEW CONSTRUCTION / RECONSTRUCTION

( ) RESURFACING (LA FACILITIES)

() RRR (ARTERIALS & COLLECTORS)

POTENTIAL EXCEPTIONS AND VARIATIONS RELATED TO TYPICAL SECTION:



## (SR 589) SUNCOAST PARKWAY

PROPOSED NORTHBOUND OFF-RAMP AT SR 54 (DDI) TOLL SITE 3 N.T.S

## PROJECT CONTROLS

CONTEXT CLASSIFICATION

() C1: NATURAL () C3C: SUBURBAN COMM. () C4: URBAN GENERAL

() C5: URBAN CENTER C2T : RURAL TOWN () C3R: SUBURBAN RES. () C6: URBAN CORE

(X) N/A : L.A. FACILITY

() C2: RURAL

## FUNCTIONAL CLASSIFICATION

() INTERSTATE () MAJOR COLLECTOR () FREEWAY/EXPWY. () MINOR COLLECTOR

( ) PRINCIPAL ARTERIAL () LOCAL

() MINOR ARTERIAL

## HIGHWAY SYSTEM

NATIONAL HIGHWAY SYSTEM

STRATEGIC INTERMODAL SYSTEM

STATE HIGHWAY SYSTEM

OFF-STATE HIGHWAY SYSTEM

## ACCESS CLASSIFICATION

() 1 - FREEWAY

() 2 - RESTRICTIVE w/Service Roads

() 3 - RESTRICTIVE w/660 ft. Connection Spacing

() 4 - NON-RESTRICTIVE w/2640 ft. Signal Spacing

() 5 - RESTRICTIVE w/440 ft. Connection Spacing

() 6 - NON-RESTRICTIVE w/1320 ft. Signal Spacing

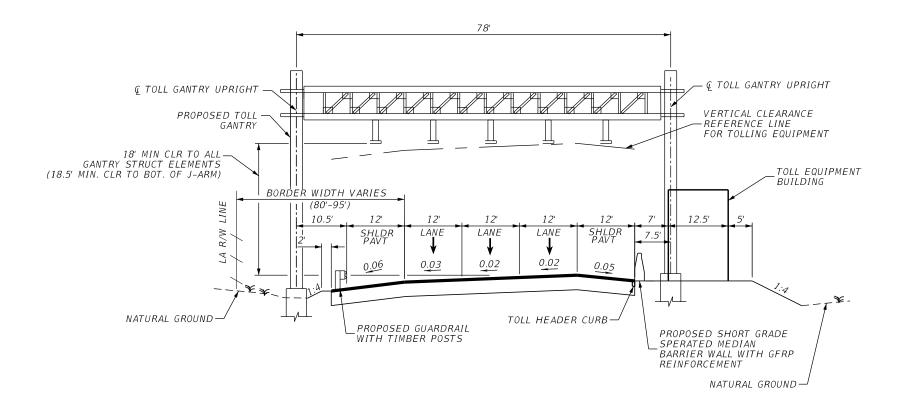
() 7 - BOTH MEDIAN TYPES

## CRITERIA

- ( ) NEW CONSTRUCTION / RECONSTRUCTION
- ( ) RESURFACING (LA FACILITIES)
- () RRR (ARTERIALS & COLLECTORS)

## POTENTIAL EXCEPTIONS AND VARIATIONS RELATED TO TYPICAL SECTION:

## **DRAFT**



## (SR 589) SUNCOAST PARKWAY

PROPOSED SOUTHBOUND ON-RAMP AT SR 54 (TDI) TOLL SITE 4 N.T.S

## CONTEXT CLASSIFICATION

PROJECT CONTROLS

- () C1: NATURAL () C3C: SUBURBAN COMM. () C4: URBAN GENERAL () C2: RURAL () C5: URBAN CENTER C2T : RURAL TOWN
- () C3R: SUBURBAN RES. () C6: URBAN CORE
- (X) N/A : L.A. FACILITY

## FUNCTIONAL CLASSIFICATION

- () INTERSTATE () MAJOR COLLECTOR FREEWAY/EXPWY. () MINOR COLLECTOR
- PRINCIPAL ARTERIAL () LOCAL
- () MINOR ARTERIAL

## HIGHWAY SYSTEM

- NATIONAL HIGHWAY SYSTEM
- STRATEGIC INTERMODAL SYSTEM
- STATE HIGHWAY SYSTEM
- OFF-STATE HIGHWAY SYSTEM

## ACCESS CLASSIFICATION

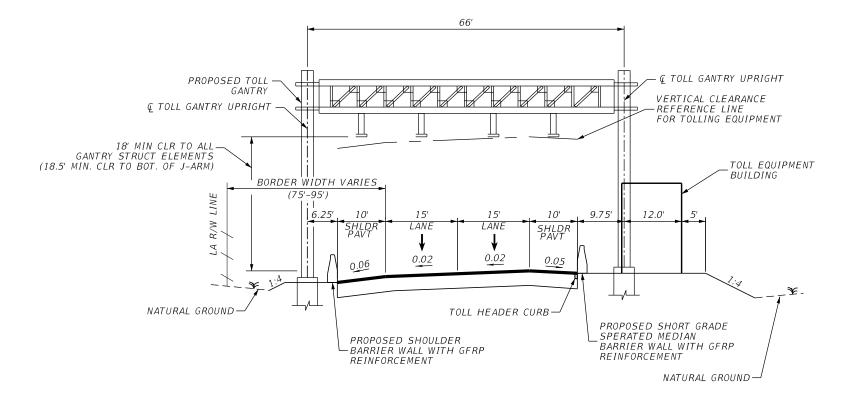
- () 1 FREEWAY
- () 2 RESTRICTIVE w/Service Roads
- () 3 RESTRICTIVE w/660 ft. Connection Spacing
- () 4 NON-RESTRICTIVE w/2640 ft. Signal Spacing
- () 5 RESTRICTIVE w/440 ft. Connection Spacing
- () 6 NON-RESTRICTIVE w/1320 ft. Signal Spacing
- () 7 BOTH MEDIAN TYPES

## CRITERIA

- ( ) NEW CONSTRUCTION / RECONSTRUCTION
- RESURFACING (LA FACILITIES)
- () RRR (ARTERIALS & COLLECTORS)

## POTENTIAL EXCEPTIONS AND VARIATIONS RELATED TO TYPICAL SECTION:

# **DRAFT**



## (SR 589) SUNCOAST PARKWAY

PROPOSED SOUTHBOUND ON-RAMP AT SR 54 (DDI) TOLL SITE 4 N.T.S

# **DRAFT**

## CONTEXT CLASSIFICATION

PROJECT CONTROLS

() C1: NATURAL () C3C: SUBURBAN COMM. () C4: URBAN GENERAL () C2: RURAL () C5: URBAN CENTER C2T : RURAL TOWN

() C3R: SUBURBAN RES. () C6: URBAN CORE

(X) N/A : L.A. FACILITY

## FUNCTIONAL CLASSIFICATION

() INTERSTATE () MAJOR COLLECTOR FREEWAY/EXPWY. () MINOR COLLECTOR

PRINCIPAL ARTERIAL () LOCAL

() MINOR ARTERIAL

## HIGHWAY SYSTEM

NATIONAL HIGHWAY SYSTEM

STRATEGIC INTERMODAL SYSTEM

STATE HIGHWAY SYSTEM

OFF-STATE HIGHWAY SYSTEM

## ACCESS CLASSIFICATION

() 1 - FREEWAY

() 2 - RESTRICTIVE w/Service Roads

() 3 - RESTRICTIVE w/660 ft. Connection Spacing

() 4 - NON-RESTRICTIVE w/2640 ft. Signal Spacing

() 5 - RESTRICTIVE w/440 ft. Connection Spacing

() 6 - NON-RESTRICTIVE w/1320 ft. Signal Spacing

() 7 - BOTH MEDIAN TYPES

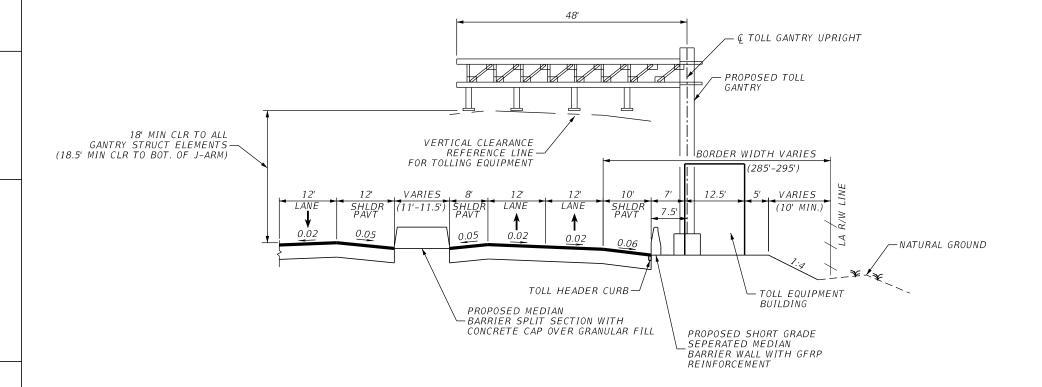
## CRITERIA

( ) NEW CONSTRUCTION / RECONSTRUCTION

( ) RESURFACING (LA FACILITIES)

() RRR (ARTERIALS & COLLECTORS)

POTENTIAL EXCEPTIONS AND VARIATIONS RELATED TO TYPICAL SECTION:



## (SR 589) SUNCOAST PARKWAY

PROPOSED NORTHBOUND OFF-RAMP AT RANGELAND BLVD TOLL SITE 5 N.T.S

# DRAFT

### CONTEXT CLASSIFICATION

PROJECT CONTROLS

() C1: NATURAL () C3C: SUBURBAN COMM.
() C2: RURAL () C4: URBAN GENERAL
() C2T: RURAL TOWN () C5: URBAN CENTER

() C3R: SUBURBAN RES. () C6: URBAN CORE

(X) N/A : L.A. FACILITY

## FUNCTIONAL CLASSIFICATION

() INTERSTATE () MAJOR COLLECTOR
() FREEWAY/EXPWY. () MINOR COLLECTOR

() PRINCIPAL ARTERIAL () LOCAL

() MINOR ARTERIAL

## HIGHWAY SYSTEM

( ) NATIONAL HIGHWAY SYSTEM

() STRATEGIC INTERMODAL SYSTEM

() STATE HIGHWAY SYSTEM

() OFF-STATE HIGHWAY SYSTEM

## ACCESS CLASSIFICATION

() 1 - FREEWAY

() 2 - RESTRICTIVE w/Service Roads

() 3 - RESTRICTIVE w/660 ft. Connection Spacing

() 4 - NON-RESTRICTIVE w/2640 ft. Signal Spacing

() 5 - RESTRICTIVE w/440 ft. Connection Spacing

() 6 - NON-RESTRICTIVE w/1320 ft. Signal Spacing

() 7 - BOTH MEDIAN TYPES

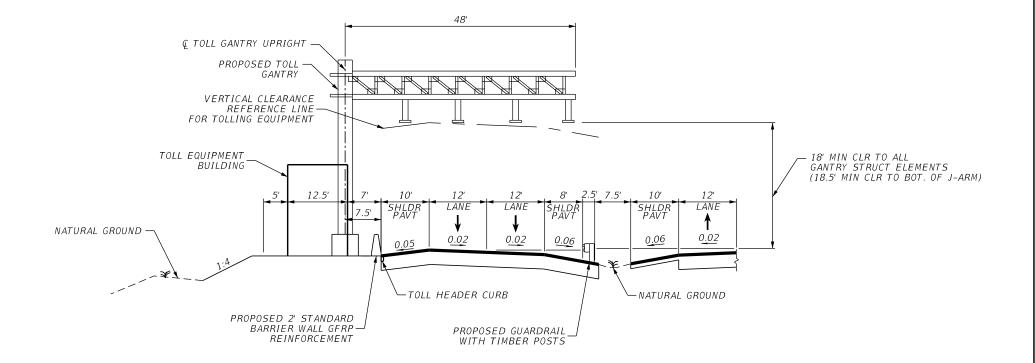
## CRITERIA

() NEW CONSTRUCTION / RECONSTRUCTION

( ) RESURFACING (LA FACILITIES)

() RRR (ARTERIALS & COLLECTORS)

POTENTIAL EXCEPTIONS AND VARIATIONS RELATED TO TYPICAL SECTION:



## (SR 589) SUNCOAST PARKWAY

PROPOSED SOUTHBOUND ON-RAMP AT RANGELAND BLVD TOLL SITE 6 N.T.S

## DRAFT

### CONTEXT CLASSIFICATION

PROJECT CONTROLS

() C1: NATURAL () C3C: SUBURBAN COMM.

() C2: RURAL () C4: URBAN GENERAL

() C2T: RURAL TOWN () C5: URBAN CENTER

() C3R: SUBURBAN RES. () C6: URBAN CORE

(X) N/A : L.A. FACILITY

## FUNCTIONAL CLASSIFICATION

() INTERSTATE () MAJOR COLLECTOR () FREEWAY/EXPWY. () MINOR COLLECTOR

() PRINCIPAL ARTERIAL () LOCAL

() MINOR ARTERIAL

## HIGHWAY SYSTEM

() NATIONAL HIGHWAY SYSTEM

() STRATEGIC INTERMODAL SYSTEM

) STATE HIGHWAY SYSTEM

() OFF-STATE HIGHWAY SYSTEM

## ACCESS CLASSIFICATION

() 1 - FREEWAY

() 2 - RESTRICTIVE w/Service Roads

() 3 - RESTRICTIVE w/660 ft. Connection Spacing

() 4 - NON-RESTRICTIVE w/2640 ft. Signal Spacing

() 5 - RESTRICTIVE w/440 ft. Connection Spacing

() 6 - NON-RESTRICTIVE w/1320 ft. Signal Spacing

() 7 - BOTH MEDIAN TYPES

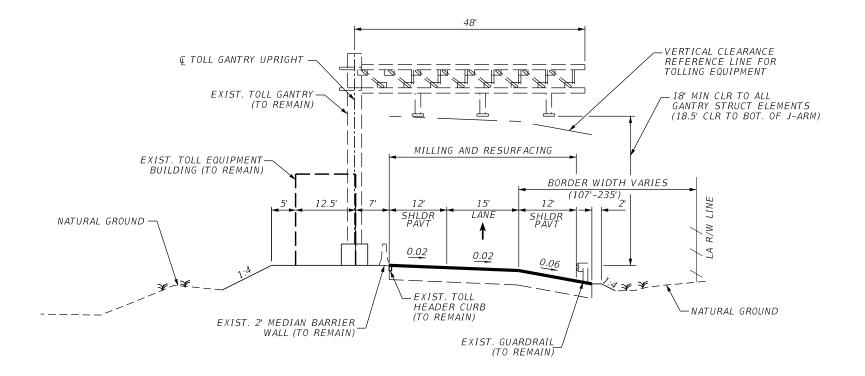
## CRITERIA

() NEW CONSTRUCTION / RECONSTRUCTION

) RESURFACING (LA FACILITIES)

() RRR (ARTERIALS & COLLECTORS)

POTENTIAL EXCEPTIONS AND VARIATIONS RELATED TO TYPICAL SECTION:



## (SR 589) SUNCOAST PARKWAY

EXISTING NORTHBOUND ON-RAMP AT RIDGE ROAD TOLL SITE 8R N.T.S

# DRAFT

## CONTEXT CLASSIFICATION

PROJECT CONTROLS

() C1: NATURAL () C3C: SUBURBAN COMM.
() C2: RURAL () C4: URBAN GENERAL
() C2T: RURAL TOWN () C5: URBAN CENTER
() C3R: SUBURBAN RES. () C6: URBAN CORE

(X) N/A : L.A. FACILITY

## FUNCTIONAL CLASSIFICATION

() LOCAL

() INTERSTATE () MAJOR COLLECTOR () FREEWAY/EXPWY. () MINOR COLLECTOR

() PRINCIPAL ARTERIAL

() MINOR ARTERIAL

HIGHWAY SYSTEM

() NATIONAL HIGHWAY SYSTEM

() STRATEGIC INTERMODAL SYSTEM

) STATE HIGHWAY SYSTEM

() OFF-STATE HIGHWAY SYSTEM

## ACCESS CLASSIFICATION

() 1 - FREEWAY

() 2 - RESTRICTIVE w/Service Roads

() 3 - RESTRICTIVE w/660 ft. Connection Spacing

() 4 - NON-RESTRICTIVE w/2640 ft. Signal Spacing

() 5 - RESTRICTIVE w/440 ft. Connection Spacing

() 6 - NON-RESTRICTIVE w/1320 ft. Signal Spacing

() 7 - BOTH MEDIAN TYPES

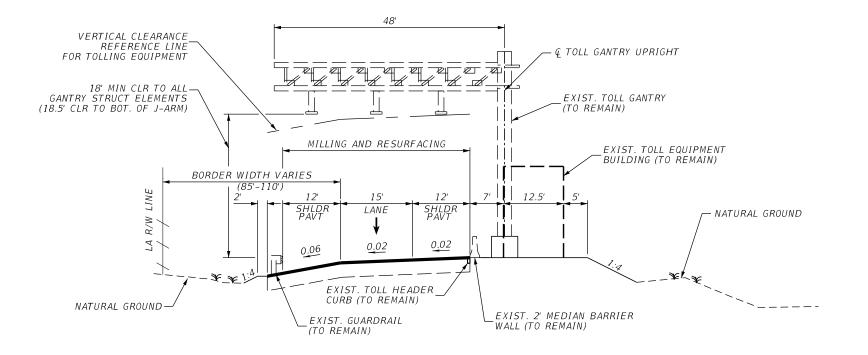
## CRITERIA

( ) NEW CONSTRUCTION / RECONSTRUCTION

( ) RESURFACING (LA FACILITIES)

() RRR (ARTERIALS & COLLECTORS)

POTENTIAL EXCEPTIONS AND VARIATIONS RELATED TO TYPICAL SECTION:



## (SR 589) SUNCOAST PARKWAY

EXISTING SOUTHBOUND OFF-RAMP AT RIDGE ROAD TOLL SITE 9R N.T.S

## PROJECT CONTROLS

### CONTEXT CLASSIFICATION

() C1: NATURAL () C3C: SUBURBAN COMM.

() C2: RURAL () C4: URBAN GENERAL

() C2T: RURAL TOWN () C5: URBAN CENTER

() C3R: SUBURBAN RES. () C6: URBAN CORE

## FUNCTIONAL CLASSIFICATION

(X) NA: OFF-SYSTEM

() INTERSTATE () MAJOR COLLECTOR
() FREEWAY/EXPWY. () MINOR COLLECTOR

() PRINCIPAL ARTERIAL () LOCAL

(X) MINOR ARTERIAL

( ) N/A : L.A. FACILITY

## HIGHWAY SYSTEM

() NATIONAL HIGHWAY SYSTEM

() STRATEGIC INTERMODAL SYSTEM

() STATE HIGHWAY SYSTEM

(X) OFF-STATE HIGHWAY SYSTEM

## ACCESS CLASSIFICATION

() 1 - FREEWAY

() 2 - RESTRICTIVE w/Service Roads

() 3 - RESTRICTIVE w/660 ft. Connection Spacing

() 4 - NON-RESTRICTIVE w/2640 ft. Signal Spacing

() 5 - RESTRICTIVE w/440 ft. Connection Spacing

() 6 - NON-RESTRICTIVE w/1320 ft. Signal Spacing

() 7 - BOTH MEDIAN TYPES

## CRITERIA

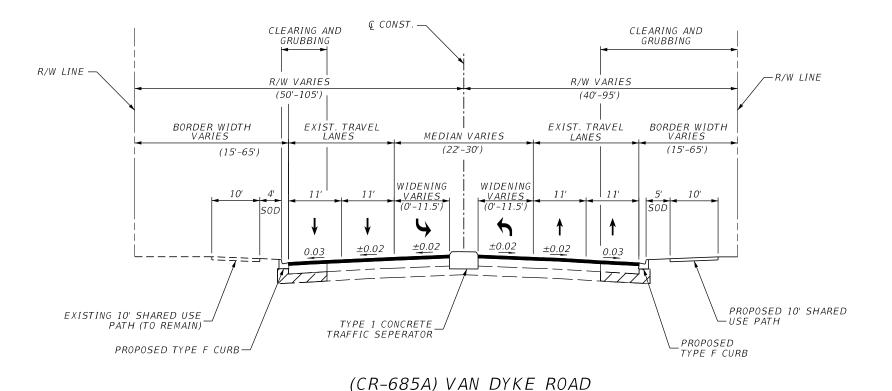
(X) NEW CONSTRUCTION / RECONSTRUCTION

) RESURFACING (LA FACILITIES)

() RRR (ARTERIALS & COLLECTORS)

POTENTIAL EXCEPTIONS AND VARIATIONS RELATED TO TYPICAL SECTION:

## **DRAFT**



MP 1.249 TO MP 2.100

N.T.S

## TRAFFIC DATA

CURRENT YEAR = 2023 AADT = 59000 ESTIMATED OPENING YEAR = 2030 AADT = 59104 ESTIMATED DESIGN YEAR = 2050 AADT = 59400 K = 9% D = 51% T = 6.7% (24 HOUR) DESIGN HOUR T = 3.3% DESIGN SPEED = 45 MPH POSTED SPEED = 45 MPH

 FINANCIAL PROJECT ID
 SHEET NO.

 448068-1-22-01
 5

# DRAFT

PROPOSED TYPE F CURB

#### & CONST. R/W LINE - R/W LINE CLEARING AND GRUBBING CLEARING AND GRUBBING MEDIAN VARIES (4'-23')R/W VARIES R/W VARIES (135'-160') |(45'-100')| \_4' SHLDR. BORDER WIDTH VARIES BORDER WIDTH VARIES 34' TRAVEL LANES BIKE (112'-133') (27'-73') LANF VARIES 11' 10' VARIES \_VARIES\_ \_VARIES\_ SOD (0'-12') (0'-12') ±0.02 ±0.02 ±0.03 ±0.02 ±0.03 ±0.03 0.03 \* \* NATURAL GROUND (TYP.) -PROPOSED 10' SIDEWALK

## (CR-582) W LUTZ LAKE FERN ROAD

TYPE 1 CONCRETE

TRAFFIC SEPERATOR

MP 7.225 TO MP 8.190

N.T.S

## FUNCTIONAL CLASSIFICATION

PROJECT CONTROLS

CONTEXT CLASSIFICATION

() C3C: SUBURBAN COMM.

() C4: URBAN GENERAL() C5: URBAN CENTER

() C6: URBAN CORE

(X) NA: OFF-SYSTEM

- () INTERSTATE () MAJOR COLLECTOR
  () FREEWAY/EXPWY. () MINOR COLLECTOR
- () PRINCIPAL ARTERIAL () LOCAL
- (X) MINOR ARTERIAL

() C1: NATURAL

C2T : RURAL TOWN

() C3R: SUBURBAN RES.() N/A: L.A. FACILITY

() C2: RURAL

## HIGHWAY SYSTEM

- () NATIONAL HIGHWAY SYSTEM
- () STRATEGIC INTERMODAL SYSTEM
- () STATE HIGHWAY SYSTEM
- (X) OFF-STATE HIGHWAY SYSTEM

## ACCESS CLASSIFICATION

- () 1 FREEWAY
- () 2 RESTRICTIVE w/Service Roads
- () 3 RESTRICTIVE w/660 ft. Connection Spacing
- () 4 NON-RESTRICTIVE w/2640 ft. Signal Spacing
- () 5 RESTRICTIVE w/440 ft. Connection Spacing
- () 6 NON-RESTRICTIVE w/1320 ft. Signal Spacing
- () 7 BOTH MEDIAN TYPES

## CRITERIA

- (X) NEW CONSTRUCTION / RECONSTRUCTION
- ( ) RESURFACING (LA FACILITIES)
- () RRR (ARTERIALS & COLLECTORS)

POTENTIAL EXCEPTIONS AND VARIATIONS RELATED TO TYPICAL SECTION:

## TRAFFIC DATA

PROPOSED 10' SIDEWALK

PROPOSED TYPE F CURB

CURRENT YEAR = 2023 AADT = 53000 ESTIMATED OPENING YEAR = 2030 AADT = 53519 ESTIMATED DESIGN YEAR = 2050 AADT = 55000 K = 9% D = 55.5% T = 5.9% (24 HOUR) DESIGN HOUR T = 2.9% DESIGN SPEED = 50 MPH POSTED SPEED = 45 MPH

FINANCIAL PROJECT ID

SHEET NO.

448068-1-22-01

6

## PROJECT CONTROLS

## CONTEXT CLASSIFICATION

() C1: NATURAL (X) C3C: SUBURBAN COMM. () C2: RURAL () C4: URBAN GENERAL

() C2T: RURAL TOWN () C5: URBAN CENTER
() C3R: SUBURBAN RES. () C6: URBAN CORE

( ) N/A : L.A. FACILITY

## FUNCTIONAL CLASSIFICATION

() INTERSTATE () MAJOR COLLECTOR
() FREEWAY/EXPWY. () MINOR COLLECTOR

(X) PRINCIPAL ARTERIAL () LOCAL

() MINOR ARTERIAL

## HIGHWAY SYSTEM

() NATIONAL HIGHWAY SYSTEM

() STRATEGIC INTERMODAL SYSTEM

X) STATE HIGHWAY SYSTEM

() OFF-STATE HIGHWAY SYSTEM

## ACCESS CLASSIFICATION

() 1 - FREEWAY

() 2 - RESTRICTIVE w/Service Roads

() 3 - RESTRICTIVE w/660 ft. Connection Spacing

() 4 - NON-RESTRICTIVE w/2640 ft. Signal Spacing

() 5 - RESTRICTIVE w/440 ft. Connection Spacing

() 6 - NON-RESTRICTIVE w/1320 ft. Signal Spacing

() 7 - BOTH MEDIAN TYPES

## CRITERIA

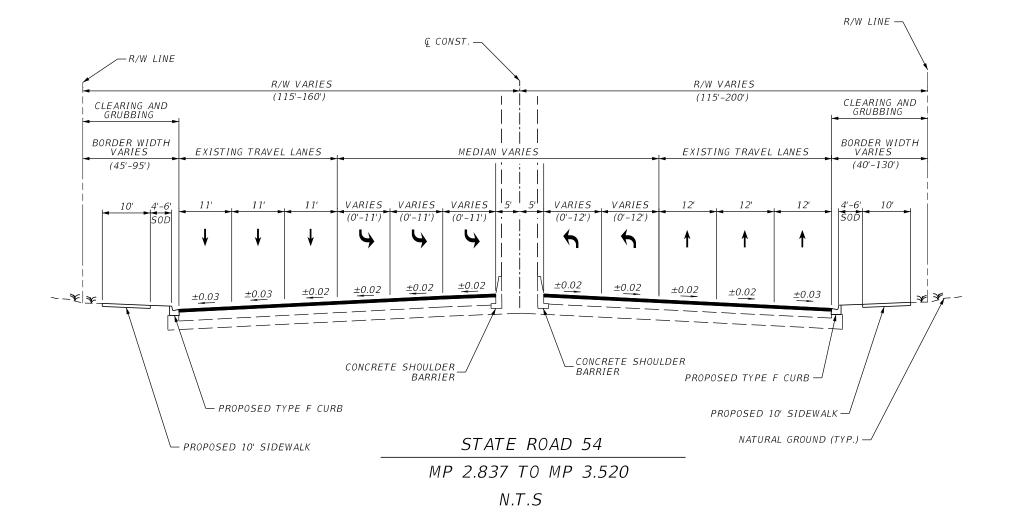
(X) NEW CONSTRUCTION / RECONSTRUCTION

( ) RESURFACING (LA FACILITIES)

() RRR (ARTERIALS & COLLECTORS)

POTENTIAL EXCEPTIONS AND VARIATIONS RELATED TO TYPICAL SECTION:

# **DRAFT**



## TRAFFIC DATA

CURRENT YEAR = 2023 AADT = 91200 ESTIMATED OPENING YEAR = 2030 AADT = 90370 ESTIMATED DESIGN YEAR = 2050 AADT = 88000 K = 9% D = 51% T = 8.5% (24 HOUR) DESIGN HOUR T = 4.3% DESIGN SPEED = 60 MPH POSTED SPEED = 45 MPH

# DRAFT

## CONTEXT CLASSIFICATION

PROJECT CONTROLS

() C1: NATURAL () C3C: SUBURBAN COMM.
() C2: RURAL () C4: URBAN GENERAL
() C2T: RURAL TOWN () C5: URBAN CENTER
() C3R: SUBURBAN RES. () C6: URBAN CORE

## FUNCTIONAL CLASSIFICATION

(X) N/A: OFF-SYSTEM

() INTERSTATE () MAJOR COLLECTOR
() FREEWAY/EXPWY. () MINOR COLLECTOR
() PRINCIPAL ARTERIAL () LOCAL

(X) MINOR ARTERIAL

( ) N/A : L.A. FACILITY

### HIGHWAY SYSTEM

( ) NATIONAL HIGHWAY SYSTEM

() STRATEGIC INTERMODAL SYSTEM

) STATE HIGHWAY SYSTEM

(X) OFF-STATE HIGHWAY SYSTEM

## ACCESS CLASSIFICATION

() 1 - FREEWAY

() 2 - RESTRICTIVE w/Service Roads

() 3 - RESTRICTIVE w/660 ft. Connection Spacing

() 4 - NON-RESTRICTIVE w/2640 ft. Signal Spacing

() 5 - RESTRICTIVE w/440 ft. Connection Spacing

() 6 - NON-RESTRICTIVE w/1320 ft. Signal Spacing

() 7 - BOTH MEDIAN TYPES

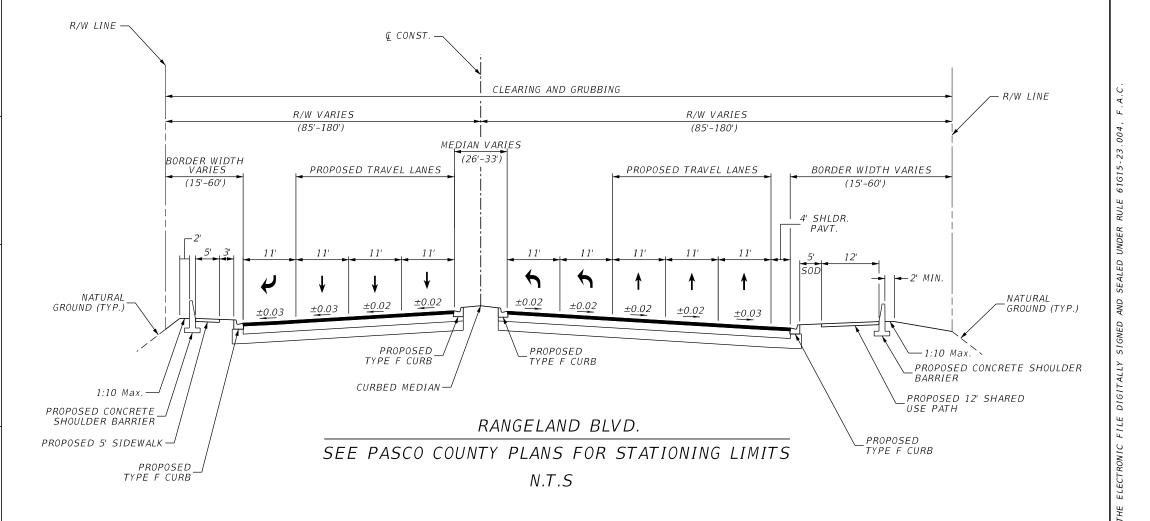
## CRITERIA

(X) NEW CONSTRUCTION / RECONSTRUCTION

( ) RESURFACING (LA FACILITIES)

() RRR (ARTERIALS & COLLECTORS)

POTENTIAL EXCEPTIONS AND VARIATIONS RELATED TO TYPICAL SECTION:



## TRAFFIC DATA

CURRENT YEAR = 2023 AADT =
ESTIMATED OPENING YEAR = 2030 AADT =
ESTIMATED DESIGN YEAR = 2050 AADT = 82400
K = 9% D = 54.5% T = 10% (24 HOUR)
DESIGN HOUR T = 5%
DESIGN SPEED = 45 MPH
POSTED SPEED = 45 MPH

FINANCIAL PROJECT ID

SHEET
NO.

448068-1-22-01

8

#### PROJECT CONTROLS TYPICAL SECTION No. 29

## CONTEXT CLASSIFICATION

() C1: NATURAL () C3C: SUBURBAN COMM. () C2: RURAL () C4: URBAN GENERAL () C5: URBAN CENTER C2T : RURAL TOWN () C6: URBAN CORE ( ) C3R : SUBURBAN RES.

## FUNCTIONAL CLASSIFICATION

(X) N/A: OFF-SYSTEM

() INTERSTATE () MAJOR COLLECTOR () MINOR COLLECTOR FREEWAY/EXPWY.

PRINCIPAL ARTERIAL () LOCAL

(X) MINOR ARTERIAL

( ) N/A : L.A. FACILITY

### HIGHWAY SYSTEM

NATIONAL HIGHWAY SYSTEM

STRATEGIC INTERMODAL SYSTEM

STATE HIGHWAY SYSTEM

OFF-STATE HIGHWAY SYSTEM

## ACCESS CLASSIFICATION

() 1 - FREEWAY

() 2 - RESTRICTIVE w/Service Roads

() 3 - RESTRICTIVE w/660 ft. Connection Spacing

() 4 - NON-RESTRICTIVE w/2640 ft. Signal Spacing

() 5 - RESTRICTIVE w/440 ft. Connection Spacing

() 6 - NON-RESTRICTIVE w/1320 ft. Signal Spacing

() 7 - BOTH MEDIAN TYPES

### CRITERIA

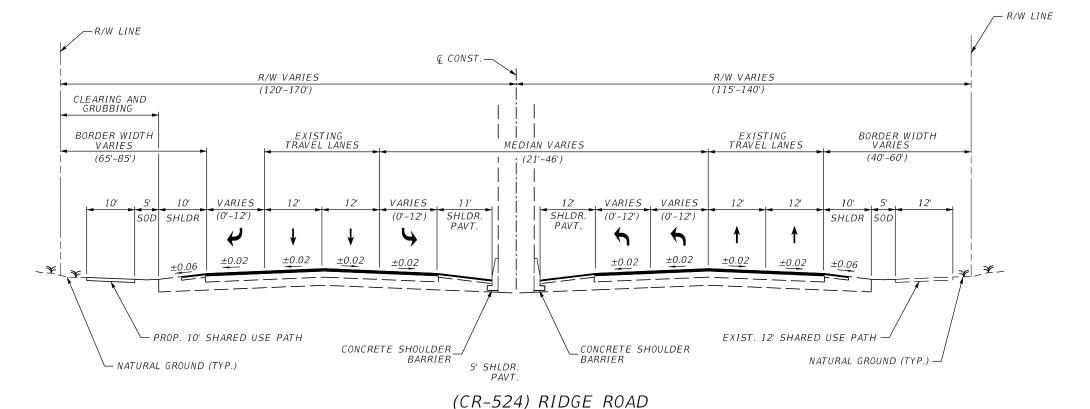
(X) NEW CONSTRUCTION / RECONSTRUCTION

RESURFACING (LA FACILITIES)

() RRR (ARTERIALS & COLLECTORS)

POTENTIAL EXCEPTIONS AND VARIATIONS RELATED TO TYPICAL SECTION:

## **DRAFT**



N.T.S

## TRAFFIC DATA

CURRENT YEAR = 2023 AADT = 53400 ESTIMATED OPENING YEAR = 2030 AADT = 54074 ESTIMATED DESIGN YEAR = 2050 AADT = 56000 K = 9% D = 54.5% T = 6% (24 HOUR) DESIGN HOUR T = 200 DESIGN HOUR T = 3%
DESIGN SPEED = 55 MPH
POSTED SPEED = 55 MPH

SHEET FINANCIAL PROJECT ID 448068-1-22-01

# **DRAFT**

#### -R/W LINE € CONST. — CLEARING AND GRUBBING (26'-58') R/W LINE R/W VARIES R/W VARIES (65'-130') (60'-145') BORDER WIDTH & CLEARING AND BORDER WIDTH VARIES GRUBBING VARIES MEDIAN VARIES EXISTING TRAVEL LANES EXISTING TRAVEL LANES (10'-45') (22'-46') (5'-85') VARIES **VARIES** VARIES 12' 12' 12' SOD (0'-12')4 ±0.02 ±0.02 ±0.02 ±0.02 --¥|<u>¥</u> NATURAL GROUND (TYP.) PROPOSED TYPE F CURB TYPE 1 CONCRETE TRAFFIC SEPERATOR - PROPOSED TYPE F CURB PROPOSED 10' SHARED USE PATH

STATE ROAD 52

MP 8.833 TO MP 9.672

N.T.S

└─ PROPOSED 12' SHARED USE PATH

CURRENT YEAR = 2023 AADT = 76400 ESTIMATED OPENING YEAR = 2030 AADT = 78059 ESTIMATED DESIGN YEAR = 2050 AADT = 82800 K = 9% D = 53.5% T = 10.8% (24 HOUR) DESIGN HOUR T = 5.39% DESIGN SPEED = 60 MPH POSTED SPEED = 45 MBH POSTED SPEED = 45 MPH

SHEET FINANCIAL PROJECT ID 10 448068-1-22-01

## CONTEXT CLASSIFICATION

PROJECT CONTROLS

() C1: NATURAL () C3C: SUBURBAN COMM. (X) C2: RURAL () C4: URBAN GENERAL () C5: URBAN CENTER C2T : RURAL TOWN () C3R: SUBURBAN RES. () C6: URBAN CORE

() N/A: L.A. FACILITY

## FUNCTIONAL CLASSIFICATION

() INTERSTATE () MAJOR COLLECTOR () MINOR COLLECTOR FREEWAY/EXPWY. PRINCIPAL ARTERIAL () LOCAL

() MINOR ARTERIAL

## HIGHWAY SYSTEM

NATIONAL HIGHWAY SYSTEM

STRATEGIC INTERMODAL SYSTEM

STATE HIGHWAY SYSTEM

OFF-STATE HIGHWAY SYSTEM

## ACCESS CLASSIFICATION

() 1 - FREEWAY

() 2 - RESTRICTIVE w/Service Roads

() 3 - RESTRICTIVE w/660 ft. Connection Spacing

() 4 - NON-RESTRICTIVE w/2640 ft. Signal Spacing

() 5 - RESTRICTIVE w/440 ft. Connection Spacing

() 6 - NON-RESTRICTIVE w/1320 ft. Signal Spacing

() 7 - BOTH MEDIAN TYPES

## CRITERIA

( ) NEW CONSTRUCTION / RECONSTRUCTION

RESURFACING (LA FACILITIES)

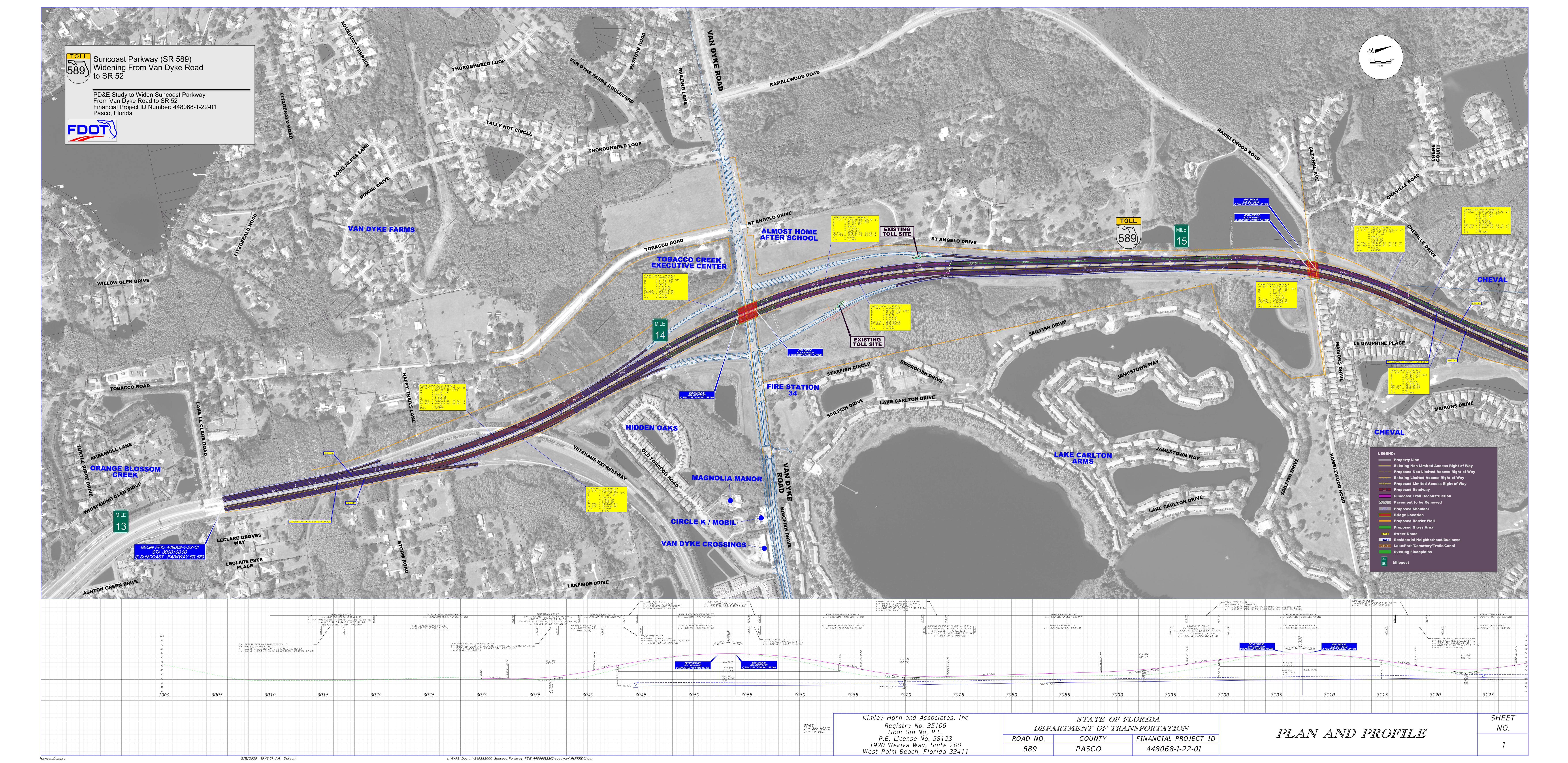
(X) RRR (ARTERIALS & COLLECTORS)

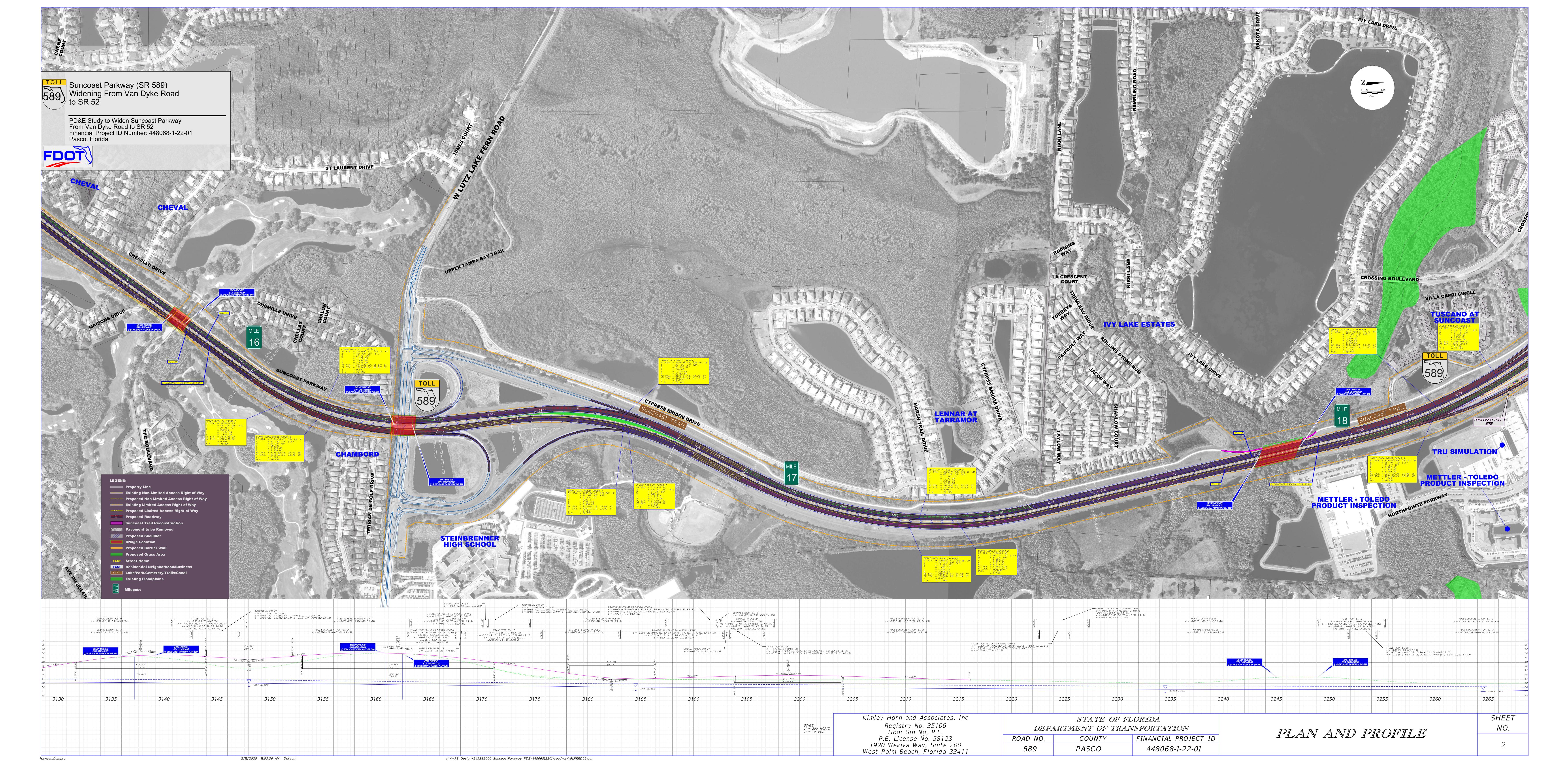
POTENTIAL EXCEPTIONS AND VARIATIONS RELATED TO TYPICAL SECTION:

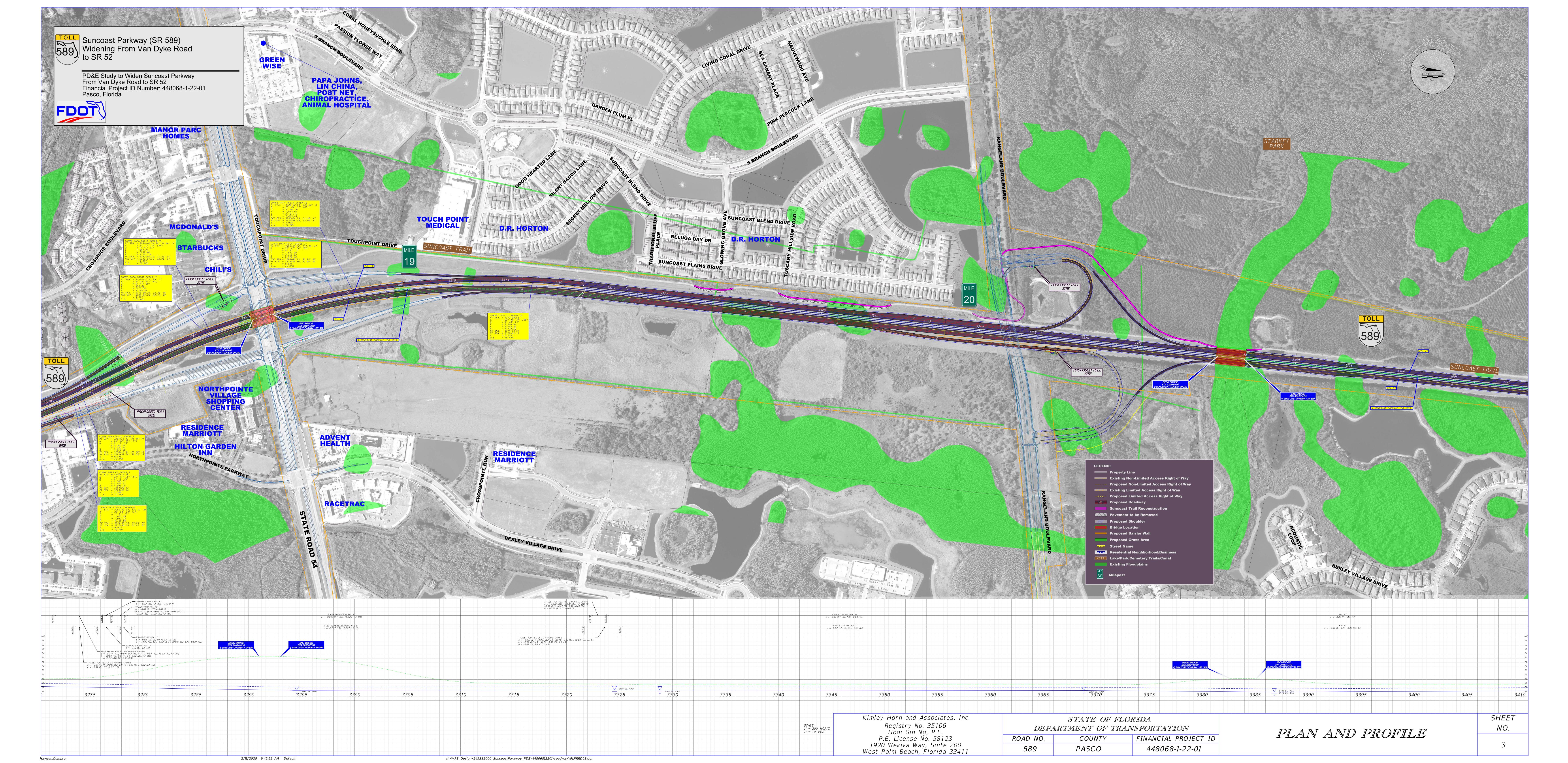
TRAFFIC DATA

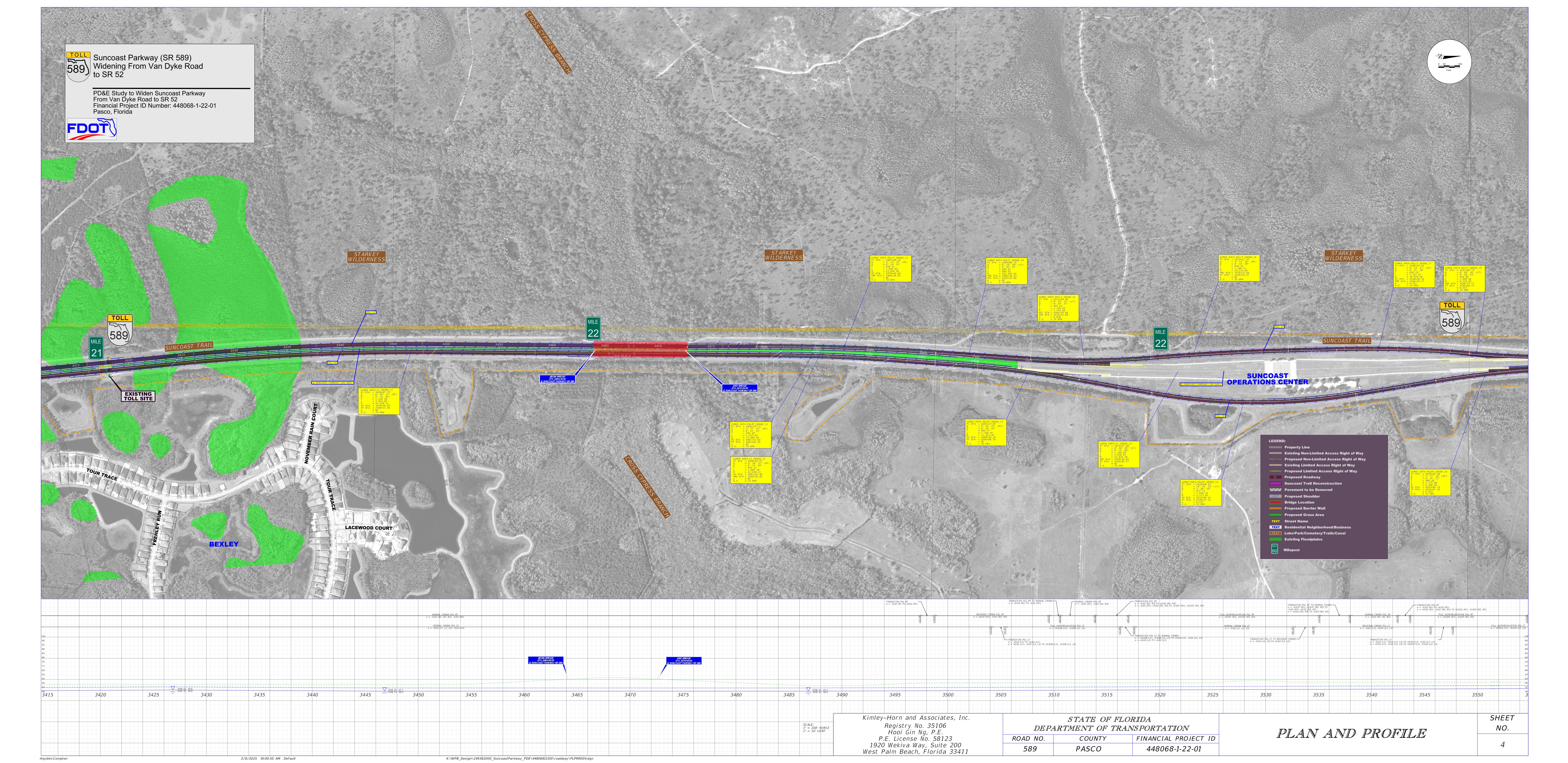
## **APPENDIX C**

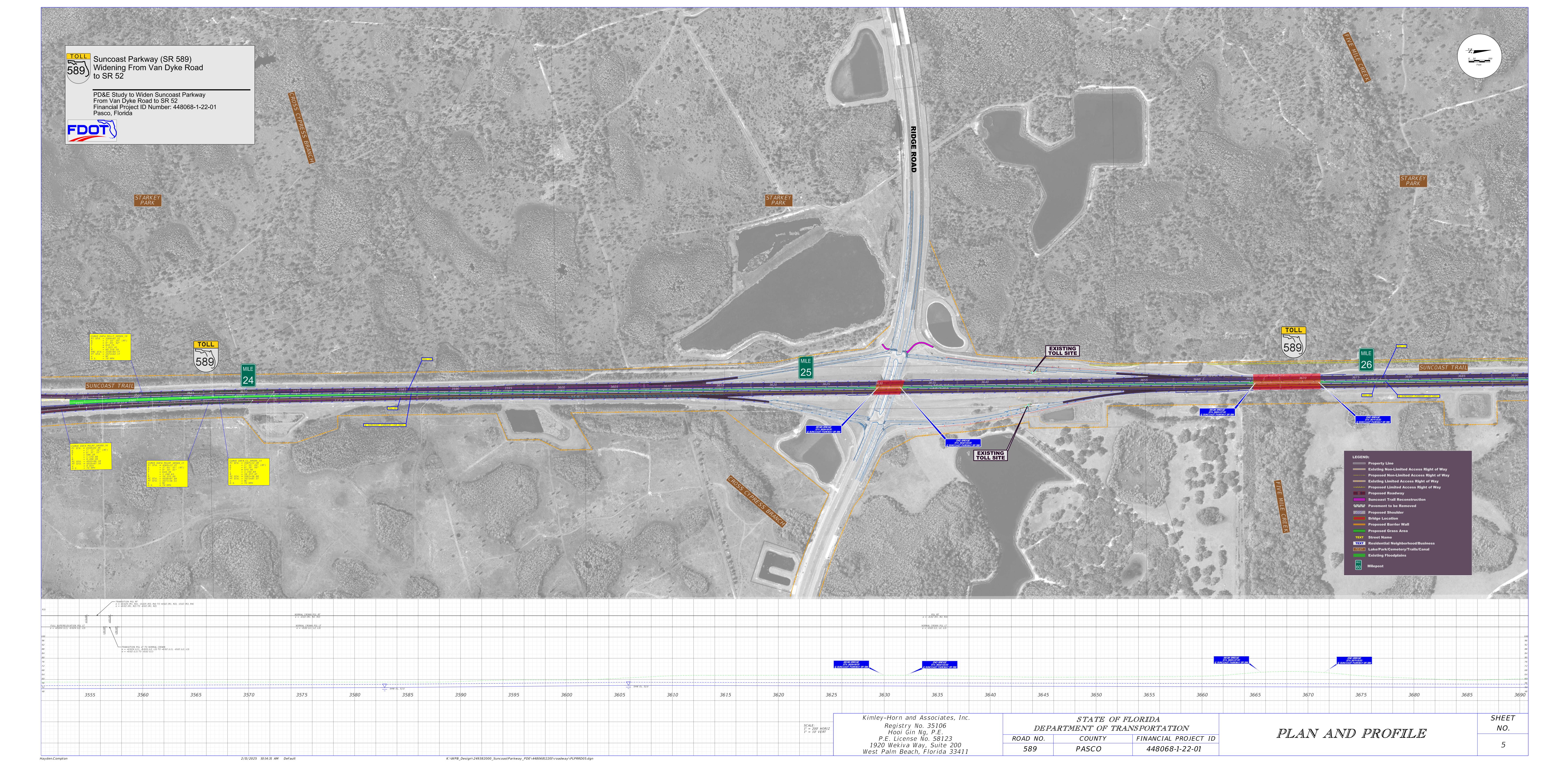


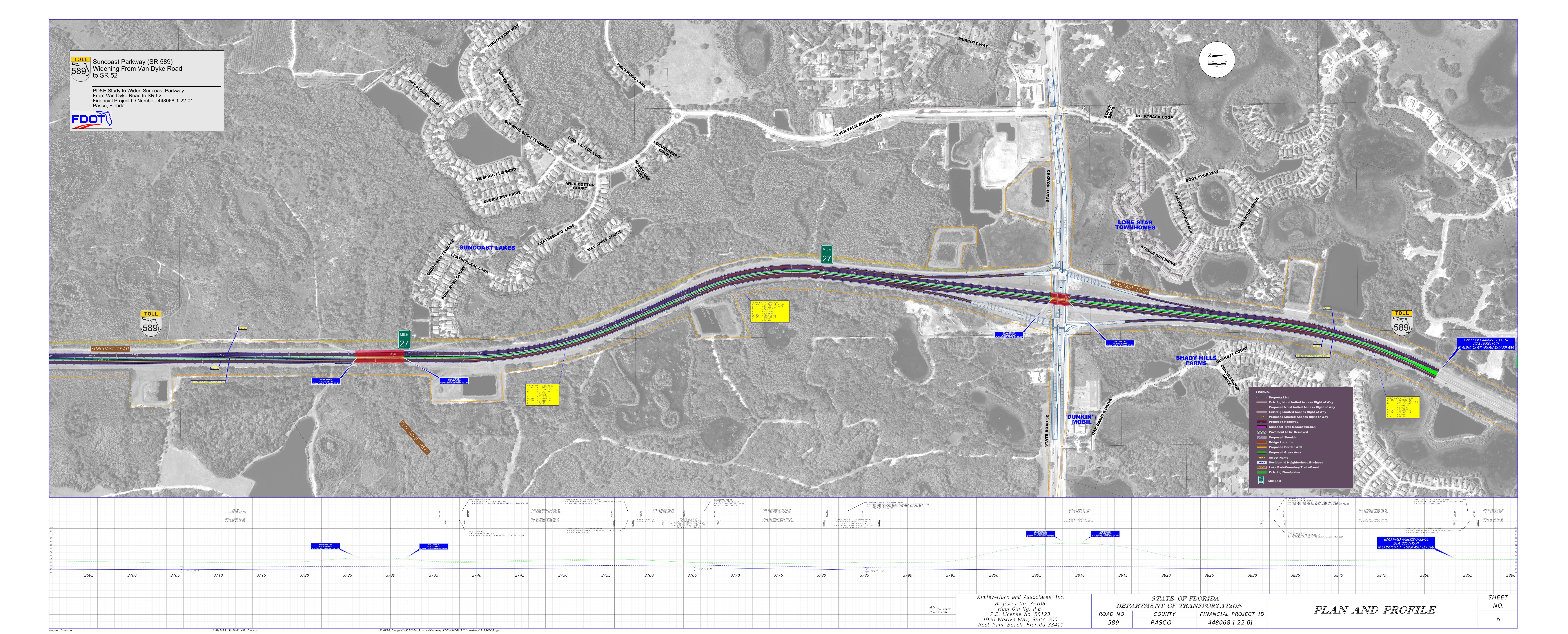












## **APPENDIX D**



Date: 2/12/2025 9:05:38 AM

# FDOT Long Range Estimating System - Production R3: Project Details by Sequence Report

**Project:** 448068-1-22-01 **Letting Date:** 01/2099

Description: PD&E WIDEN SUNCOAST PKWY(SR589) - S OF VAN DYKE RD TO SR52 (MP13-29)

District: 08 County: 97 TURNPIKE Market Area: 99 Units: English

Contract Class: 3 Lump Sum Project: N Design/Build: N Project Length: 15.979 MI

Project Manager: SHARMA

Version 21 Project Grand Total \$192,535,285.75

Description: South of Van Dyke Rd to Lutz Lake (4 TO 8 LANES 3000+00 - 3165+00)

Sequence: 1 NDR - New Construction, Divided, Rural

Net Length: 2.557 MI 13,500 LF

Description: Reconstruction (3030+00 - 3165+00)

**Special Conditions:** Aux lanes covered in a separate sequence Lighting covered in this sequence

#### **EARTHWORK COMPONENT**

#### **User Input Data**

Description	Value
Standard Clearing and Grubbing Limits L/R	115.00 / 105.00
Incidental Clearing and Grubbing Area	0.00
Alignment Number	1
Distance	2.557
Top of Structural Course For Begin Section	106.00
Top of Structural Course For End Section	106.00
Horizontal Elevation For Begin Section	100.00
Horizontal Elevation For End Section	100.00
Front Slope L/R	6 to 1 / 6 to 1
Median Slope L/R	6 to 1 / 6 to 1
Median Shoulder Cross Slope L/R	6.00 % / 6.00 %
Outside Shoulder Cross Slope L/R	6.00 % / 6.00 %
Roadway Cross Slope L/R	2.00 % / 2.00 %

## Pay Items

Pay item	Description	<b>Quantity Unit</b>	Unit Price	<b>Extended Amount</b>
110-1-1	CLEARING & GRUBBING	68.19 AC	\$69,069.09	\$4,709,821.25
120-6	EMBANKMENT	382,087.17 CY	\$24.75	\$9,456,657.46
	Earthwork Component Total			\$14.166.478.71

#### **ROADWAY COMPONENT**

## **User Input Data**

Description	Value
Number of Lanes	8
Roadway Pavement Width L/R	48.00 / 48.00
Structural Spread Rate	330
Friction Course Spread Rate	80

#### Pay Items

Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
160-4	TYPE B STABILIZATION	215,998.46 SY	\$21.28	\$4,596,447.23
285-709	OPTIONAL BASE,BASE GROUP 09	145,978.96 SY	\$58.67	\$8,564,585.58
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	23,759.83 TN	\$188.86	\$4,487,281.49
337-7-25	ASPH CONC FC,INC BIT,FC- 5,PG76-22	5,759.96 TN	\$247.36	\$1,424,783.71
X-Items				
B	Barrier to the control of the contro	<b>A</b>	Harlt Dalas	- 4
Pay item	Description	Quantity Unit	Unit Price	Extended Amount
102-2-200	SPECIAL DETOUR- TEMPORARY PAVEMENT	252,125.00 SY	\$34.59	\$8,721,003.75
•	SPECIAL DETOUR- TEMPORARY	252,125.00 SY		
•	SPECIAL DETOUR- TEMPORARY PAVEMENT  Comment: Quantity from original LRI	252,125.00 SY		
102-2-200	SPECIAL DETOUR- TEMPORARY PAVEMENT  Comment: Quantity from original LRI mileage.  OPTIONAL BASE,BASE GROUP	252,125.00 SY ≣ - adjusted for	\$34.59	\$8,721,003.75
102-2-200	SPECIAL DETOUR- TEMPORARY PAVEMENT Comment: Quantity from original LRI mileage. OPTIONAL BASE,BASE GROUP 01	252,125.00 SY ≣ - adjusted for	\$34.59	\$8,721,003.75

## **Pavement Marking Subcomponent**

Description	Value
Include Thermo/Tape/Other	Υ
Pavement Type	Asphalt
Solid Stripe No. of Paint Applications	1
Solid Stripe No. of Stripes	4
Skip Stripe No. of Paint Applications	1
Skip Stripe No. of Stripes	6

## Pay Items

,				
Pay item	Description	Quantity Unit	Unit Price	Extended Amount
706-1-3	RAISED PAVMT MARK, TYPE B	2,416.00 EA	\$4.96	\$11,983.36
710-11-101	PAINTED PAVT MARK,STD,WHITE,SOLID,6"	10.23 GM	\$1,448.71	\$14,820.30
710-11-131	PAINTED PAVT MARK,STD,WHITE,SKIP, 6"	15.34 GM	\$598.83	\$9,186.05
711-15-101	THERMOPLASTIC, STD-OP, WHITE, SOLID, 6"	10.23 GM	\$6,541.58	\$66,920.36
711-15-131	THERMOPLASTIC, STD-OP, WHITE, SKIP, 6"	15.34 GM	\$2,228.46	\$34,184.58

## **Peripherals Subcomponent**

Description	Value
Off Road Bike Path(s)	0
Off Road Bike Path Width L/R	0.00 / 0.00
Bike Path Structural Spread Rate	0
Noise Barrier Wall Length	0.00
Noise Barrier Wall Begin Height	0.00
Noise Barrier Wall End Height	0.00

## Pay Items

Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	Extended Amount
339-1	MISCELLANEOUS ASPHALT PAVEMENT	176.53 TN	\$268.77	\$47,445.97
536-1-1	GUARDRAIL- ROADWAY, GEN TL-3	5,296.00 LF	\$29.57	\$156,602.72

544-3-2 CRASH CUSHION, TL-3, WIDE 2.00 EA \$44,529.70 \$89,059.40

**Roadway Component Total** 

\$28,717,943.22

## SHOULDER COMPONENT

## **User Input Data**

Description	Value
Total Outside Shoulder Width L/R	12.00 / 12.00
Total Outside Shoulder Perf. Turf Width L/R	0.00 / 0.00
Paved Outside Shoulder Width L/R	12.00 / 12.00
Structural Spread Rate	275
Friction Course Spread Rate	80
Total Width (T) / 8" Overlap (O)	0
Rumble Strips �No. of Sides	2

## Pay Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
285-704	OPTIONAL BASE,BASE GROUP 04	36,989.74 SY	\$42.51	\$1,572,433.85
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	4,949.96 TN	\$188.86	\$934,849.45
337-7-25	ASPH CONC FC,INC BIT,FC- 5,PG76-22	79.20 TN	\$247.36	\$19,590.91
546-72-1	GROUND-IN RUMBLE STRIPS, 16"	5.11 GM	\$2,141.34	\$10,942.25

### X-Items

Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
521-72-24	SHLDR CONC BAR WALL, 8' NOISE WALL	7,753.00 LF	\$634.23	\$4,917,185.19
521-72-40	SHLDR CONC BARRIER,38" OR 44" HEIGHT	3,369.00 LF	\$365.80	\$1,232,380.20

## **Erosion Control**

## Pay Items

i dy iteliis				
Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
104-10-3	SEDIMENT BARRIER	35,099.75 LF	\$3.32	\$116,531.17
104-11	FLOATING TURBIDITY BARRIER	639.20 LF	\$15.96	\$10,201.63
104-12	STAKED TURBIDITY BARRIER- NYL REINF PVC	639.20 LF	\$19.18	\$12,259.86
104-15	SOIL TRACKING PREVENTION DEVICE	3.00 EA	\$4,709.30	\$14,127.90
104-18	INLET PROTECTION SYSTEM	16.00 EA	\$192.13	\$3,074.08
107-1	LITTER REMOVAL	61.98 AC	\$57.63	\$3,571.91
107-2	MOWING	61.98 AC	\$54.82	\$3,397.74
	Shoulder Component Total			\$8,850,546.14

## **MEDIAN COMPONENT**

## **User Input Data**

Description	Value
Total Median Width	26.00
Performance Turf Width	0.00
Total Median Shoulder Width L/R	12.00 / 12.00
Paved Median Shoulder Width L/R	12.00 / 12.00

Structural Spread Rate	275
Friction Course Spread Rate	80
Total Width (T) / 8" Overlap (O)	0
Rumble Strips i. 1/2No. of Sides	2

Pay Items				
Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
285-704	OPTIONAL BASE,BASE GROUP 04	36,989.74 SY	\$42.51	\$1,572,433.85
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	4,949.96 TN	\$188.86	\$934,849.45
337-7-25	ASPH CONC FC,INC BIT,FC- 5,PG76-22	79.20 TN	\$247.36	\$19,590.91
521-1-11	MEDIAN CONC BARRIER, 38" HEIGHT	13,500.00 LF	\$232.40	\$3,137,400.00
546-72-1	GROUND-IN RUMBLE STRIPS, 16"	5.00 GM	\$2,141.34	\$10,706.70
	Median Component Total			\$5,674,980.91

## **DRAINAGE COMPONENT**

Pay Items				
Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
425-1-551	INLETS, DT BOT, TYPE E, <10'	16.00 EA	\$9,622.55	\$153,960.80
430-174-124	PIPE CULV, OPT MATL, ROUND,24"SD	2,048.00 LF	\$278.89	\$571,166.72
430-175-124	PIPE CULV, OPT MATL, ROUND, 24"S/CD	880.00 LF	\$228.01	\$200,648.80
430-175-136	PIPE CULV, OPT MATL, ROUND, 36"S/CD	760.00 LF	\$310.89	\$236,276.40
430-984-129	MITERED END SECT, OPTIONAL RD, 24" SD	103.00 EA	\$3,624.19	\$373,291.57
524-1-1	CONCRETE DITCH PAVT, NR, 3"	5,113.60 SY	\$113.15	\$578,603.84
570-1-1	PERFORMANCE TURF	1,799.99 SY	\$6.88	\$12,383.93
X-Items				
Pay item	Description	<b>Quantity Unit</b>	Unit Price	<b>Extended Amount</b>
425-1-790	INLETS, MED BARRIER, TYPE 2, <=10'	33.00 EA	\$7,844.44	\$258,866.52
	<b>Comment:</b> captures median drainage 1 inlets unit price used from state wide unit (\$7,844.44)			

## **Retention Basin 1**

Description		Value
Size		.5 AC
Multiplier		1
Depth		6.00
Description	Expand exist pond	

## Pay Items

Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
110-1-1	CLEARING & GRUBBING	0.50 AC	\$27,000.00	\$13,500.00
120-1	REGULAR EXCAVATION	4,840.00 CY	\$104.30	\$504,812.00
425-1-541	INLETS, DT BOT, TYPE D, <10'	1.00 EA	\$11,392.37	\$11,392.37
425-2-71	MANHOLES, J-7, <10'	1.00 EA	\$12,151.00	\$12,151.00

430-175-142	PIPE CULV, OPT MATL, ROUND, 42"S/CD	56.00 LF	\$654.39	\$36,645.84
430-175-160	PIPE CULV, OPT MATL, ROUND, 60"S/CD	200.00 LF	\$612.49	\$122,498.00
550-10-220	FENCING, TYPE B, 5.1-6.0', STANDARD	600.00 LF	\$81.27	\$48,762.00
550-60-234	FENCE GATE,TYP B,SLIDE/CANT,18.1-20'OPEN	1.00 EA	\$5,256.99	\$5,256.99
570-1-1	PERFORMANCE TURF	2,420.00 SY	\$18.06	\$43,705.20
	Drainage Component Total			\$3,183,921.98

## **SIGNING COMPONENT**

Pay Items				
Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
700-1-111	SINGLE COL GRND SIGN AS, F&I GM, <12 SF	6.00 EA	\$543.45	\$3,260.70
700-1-112	SINGLE COL GRND SIGN AS, F&I GM, 12-20	62.00 EA	\$1,918.21	\$118,929.02
700-2-114	MULTI- COLUMN SIGN, F&I GM, 30.1-50 SF	6.00 EA	\$8,985.18	\$53,911.08
700-2-115	MULTI- COLUMN SIGN, F&I GM, 50.1-100 SF	16.00 EA	\$10,791.99	\$172,671.84
X-Items				
Pay item	Description	Quantity Unit	Unit Price	Extended Amount
700-2-116	MULTI- COLUMN SIGN, F&I GM, 100.1-200 SF	1.00 EA	\$17,590.91	\$17,590.91
700-3-206	SIGN PANEL, F&I OM, 101-200 SF	6.00 EA	\$10,172.19	\$61,033.14
700-4-114	OH STATIC SIGN STR, F&I, C 41- 50 FT	5.00 EA	\$182,265.02	\$911,325.10
700-4-126	OH STATIC SIGN STR, F&I, S 101- 150 FT	1.00 EA	\$350,000.00	\$350,000.00
	Signing Component Total			\$1,688,721.79

## INTELLIGENT TRAFFIC SYSTEM (ITS) COMPONENT

## **Description of Work**

EX-Items

Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
ITS	ITS	1.00 LS	\$1,278,000.00	\$1,278,000.00
	<b>Comment:</b> Matched original LREs - assu \$500,000/mile	ımes		
	Intelligent Traffic System (ITS) Compor	nent Total		\$1,278,000.00

## LIGHTING COMPONENT

**Rural Lighting Subcomponent** 

DescriptionValueMultiplier (Number of Poles)138

Pay Items

Pay itemDescriptionQuantity UnitUnit PriceExtended Amount630-2-11CONDUIT, F& I, OPEN TRENCH27,600.00 LF\$24.85\$685,860.00

635-2-11	PULL & SPLICE BOX, F&I, 13" x 24"	138.00 EA	\$1,708.32	\$235,748.16
715-1-13	LIGHTING CONDUCTORS, F&I, INSUL, NO.4-2	82,800.00 LF	\$6.55	\$542,340.00
715-61-442	LIGHT POLE CMPLT,STD,F&I, 45'MH,12'ARM L	138.00 EA	\$16,000.00	\$2,208,000.00
715-500-1	POLE CABLE DIST SYS, CONVENTIONAL	138.00 EA	\$1,175.12	\$162,166.56
	Subcomponent Total			\$3,834,114.72
	Lighting Component Total			\$3,834,114.72

## **BRIDGES COMPONENT**

## Bridge NB2.3

Description	Value
Estimate Type	SF Estimate
Primary Estimate	YES
Length (LF)	154.88
Width (LF)	38.00
Туре	Overpass Widening
Cost Factor	1.00
Structure No.	100626
Removal of Existing Structures area	1,084.00
Default Cost per SF	\$140.00
Factored Cost per SF	\$140.00
Final Cost per SF	\$166.66
Basic Bridge Cost	\$823,961.60

NB OVER VAN DYKE ROAD - INSIDE AND OUTSIDE Description

**WIDENING** 

## **Bridge Pay Items**

Pay item	Description	<b>Quantity Unit</b>	Unit Price	<b>Extended Amount</b>
110-3	REMOVAL OF EXISTING STRUCTURES/BRIDGES	1,084.00 SF	\$118.07	\$127,987.88
400-2-10	CONC CLASS II, APPROACH SLABS	84.44 CY	\$1,590.18	\$134,274.80
415-1-9	REINF STEEL- APPROACH SLABS	14,777.00 LB	\$1.53	\$22,608.81

#### **Bridge NB2.3 Total** \$1,108,833.09

## Bridge SB2.3

Description

· ·	
Description	Value
Estimate Type	SF Estimate
Primary Estimate	YES
Length (LF)	154.88
Width (LF)	38.00
Туре	Overpass Widening
Cost Factor	1.00
Structure No.	100627
Removal of Existing Structures area	1,084.00
Default Cost per SF	\$140.00
Factored Cost per SF	\$140.00
Final Cost per SF	\$166.66
Basic Bridge Cost	\$823,961.60

SB OVER VAN DYKE ROAD - INSIDE AND OUTSIDE

WIDENING

## **Bridge Pay Items**

Pay item	Description	<b>Quantity Unit</b>	Unit Price	Extended Amount
110-3	REMOVAL OF EXISTING STRUCTURES/BRIDGES	1,084.00 SF	\$118.07	\$127,987.88
400-2-10	CONC CLASS II, APPROACH SLABS	84.44 CY	\$1,590.18	\$134,274.80
415-1-9	REINF STEEL- APPROACH SLABS	14,777.00 LB	\$1.53	\$22,608.81
	Bridge SB2.3 Total			\$1,108,833.09

## Bridge NB2.4

Description	Value
Estimate Type	SF Estimate
Primary Estimate	YES
Length (LF)	72.46
Width (LF)	38.00
Туре	Overpass Widening
Cost Factor	1.00
Structure No.	100628
Removal of Existing Structures area	461.00
Default Cost per SF	\$140.00
Factored Cost per SF	\$140.00
Final Cost per SF	\$196.98
Basic Bridge Cost	\$385,487.20

NB OVER RAMBLEWOOD RD - INSIDE AND OUTSIDE Description

**WIDENING** 

## **Bridge Pay Items**

Pay item	Description	Quantity Unit	<b>Unit Price</b>	<b>Extended Amount</b>
110-3	REMOVAL OF EXISTING STRUCTURES/BRIDGES	461.00 SF	\$118.07	\$54,430.27
400-2-10	CONC CLASS II, APPROACH SLABS	84.44 CY	\$1,590.18	\$134,274.80
415-1-9	REINF STEEL- APPROACH SLABS	14,777.00 LB	\$1.53	\$22,608.81

**Bridge NB2.4 Total** \$596,801.08

## Bridge SB2.4

Description	Value
Estimate Type	SF Estimate
Primary Estimate	YES
Length (LF)	72.46
Width (LF)	36.00
Туре	Overpass Widening
Cost Factor	1.00
Structure No.	100629
Removal of Existing Structures area	435.00
Default Cost per SF	\$140.00
Factored Cost per SF	\$140.00
Final Cost per SF	\$196.98
Basic Bridge Cost	\$365,198.40

SB OVER RAMBLEWOOD RD - INSIDE AND OUTSIDE Description

**WIDENING** 

## **Bridge Pay Items**

Pay item Description **Quantity Unit Unit Price Extended Amount** 

\$565,193.25

110-3	REMOVAL OF EXISTING STRUCTURES/BRIDGES	435.00 SF	\$118.07	\$51,360.45
400-2-10	CONC CLASS II, APPROACH SLABS	80.00 CY	\$1,590.18	\$127,214.40
415-1-9	REINF STEEL- APPROACH SLABS	14,000.00 LB	\$1.53	\$21,420.00

## Bridge 2.5

**Bridge SB2.4 Total** 

Description		Value
Estimate Type		SF Estimate
Primary Estimate		YES
Length (LF)		210.00
Width (LF)		153.00
Туре	Ove	rpass Bridge
Cost Factor		1.00
Structure No.		
Removal of Existing Structures area		10,994.00
Default Cost per SF		\$135.00
Factored Cost per SF		\$135.00
Final Cost per SF		\$154.66
Basic Bridge Cost	\$4	4,337,550.00
Description	REPLACEMENT BRIDGE OVER TPC BLVD	

## **Bridge Pay Items**

Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
110-3	REMOVAL OF EXISTING STRUCTURES/BRIDGES	10,994.00 SF	\$118.07	\$1,298,061.58
400-2-10	CONC CLASS II, APPROACH SLABS	340.00 CY	\$1,590.18	\$540,661.20
415-1-9	REINF STEEL- APPROACH SLABS	59,500.00 LB	\$1.53	\$91,035.00

## **Bridge 2.5 Total** \$6,267,307.78

## Bridge 2.6

Description	Value
Estimate Type	SF Estimate
Primary Estimate	YES
Length (LF)	235.00
Width (LF)	191.00
Туре	Overpass Bridge
Cost Factor	1.00
Structure No.	
Removal of Existing Structures area	9,726.00
Default Cost per SF	\$135.00
Factored Cost per SF	\$135.00
Final Cost per SF	\$152.57
Basic Bridge Cost	\$6,059,475.00
Description	REPLACEMENT BRIDGE OVER LUTZ LAKE FERN ROAD

## **Bridge Pay Items**

Pay item	Description	Quantity Unit	<b>Unit Price</b>	<b>Extended Amount</b>
110-3	REMOVAL OF EXISTING STRUCTURES/BRIDGES	9,726.00 SF	\$118.07	\$1,148,348.82
400-2-10	CONC CLASS II, APPROACH SLABS	424.44 CY	\$1,590.18	\$674,936.00

415-1-9 REINF STEEL- APPROACH 74

SLABS 14,

74,277.00 LB \$1.53

\$113,643.81

**Bridge 2.6 Total** \$7,996,403.63

Bridges Component Total \$17,643,371.92

### **RETAINING WALLS COMPONENT**

**Retaining Wall 3** 

 Description
 Value

 Length
 1,173.00

 Begin height
 15.00

 End Height
 15.00

 Multiplier
 1

Pay Items

Pay itemDescriptionQuantity UnitUnit PriceExtended Amount548-12RET WALL SYSTEM, PERM, EX<br/>BARRIER17,595.00 SF\$56.90\$1,001,155.50

**Retaining Wall 5** 

 Description
 Value

 Length
 1,262.00

 Begin height
 15.00

 End Height
 15.00

 Multiplier
 1

Pay Items

Pay itemDescriptionQuantity UnitUnit PriceExtended Amount548-12RET WALL SYSTEM, PERM, EX<br/>BARRIER18,930.00 SF\$56.90\$1,077,117.00

**Retaining Wall 7** 

 Description
 Value

 Length
 2,953.00

 Begin height
 6.00

 End Height
 6.00

 Multiplier
 1

Pay Items

Pay itemDescriptionQuantity UnitUnit PriceExtended Amount548-12RET WALL SYSTEM, PERM, EX<br/>BARRIER17,718.00 SF\$56.90\$1,008,154.20

**Retaining Wall 8** 

 Description
 Value

 Length
 2,871.00

 Begin height
 6.00

 End Height
 6.00

 Multiplier
 1

Pay Items

Pay itemDescriptionQuantity UnitUnit PriceExtended Amount548-12RET WALL SYSTEM, PERM, EX<br/>BARRIER17,226.00 SF\$56.90\$980,159.40

Retaining Wall 9

Description	Value
Length	2,227.00
Begin height	10.00
End Height	10.00
Multiplier	1

Pay Items

Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
548-12	RET WALL SYSTEM, PERM, EX BARRIER	22,270.00 SF	\$56.90	\$1,267,163.00

**Retaining Wall 10** 

Description	Value
Length	2,123.00
Begin height	10.00
End Height	10.00
Multiplier	1

Pay Items

Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
548-12	RET WALL SYSTEM, PERM, EX BARRIER	21,230.00 SF	\$56.90	\$1,207,987.00

Retaining Wall 15

Description	Value
Length	1,485.00
Begin height	15.00
End Height	6.00
Multiplier	1

Pay Items

Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
548-12	RET WALL SYSTEM, PERM, EX BARRIER	15,592.50 SF	\$56.90	\$887,213.25
	Retaining Walls Component Total			\$7,428,949.35

**Sequence 1 Total** \$92,467,028.74

Sequence: 2 NUR - New Construction, Undivided, Rural

Net Length: 2.062 MI 10,885 LF

**Description:** Aux lanes from begin project 3000+00 to 3165+00

Special Clearing and grubbing, shoulder pavement, erosion control, solid stripe, drainage, and lighting

**Conditions:** quantities is covered under roadway.

## **EARTHWORK COMPONENT**

## **User Input Data**

Description	Value
Standard Clearing and Grubbing Limits L/R	0.00 / 0.00
Incidental Clearing and Grubbing Area	0.00
Alignment Number	1
Distance	2.062
Top of Structural Course For Begin Section	105.00
Top of Structural Course For End Section	105.00
Horizontal Elevation For Begin Section	100.00
Horizontal Elevation For End Section	100.00
Front Slope L/R	6 to 1 / 6 to 1
Outside Shoulder Cross Slope L/R	6.00 % / 6.00 %
Roadway Cross Slope L/R	2.00 % / 2.00 %

## Pay Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
120-6	EMBANKMENT	79,969.68 CY	\$24.75	\$1,979,249.58
	Earthwork Component Total			\$1,979,249.58

### **ROADWAY COMPONENT**

## **User Input Data**

Description	Value
Number of Lanes	2
Roadway Pavement Width L/R	7.50 / 7.50
Structural Spread Rate	275
Friction Course Spread Rate	165

## Pay Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
160-4	TYPE B STABILIZATION	18,142.08 SY	\$21.28	\$386,063.46
285-709	OPTIONAL BASE,BASE GROUP 09	18,940.33 SY	\$58.67	\$1,111,229.16
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	2,494.54 TN	\$188.86	\$471,118.82
337-7-83	ASPH CONC FC,TRAFFIC C,FC- 12.5,PG 76-22	1,496.72 TN	\$206.53	\$309,117.58

## **Pavement Marking Subcomponent**

Description	Value
Include Thermo/Tape/Other	N
Pavement Type	Asphalt
Solid Stripe No. of Paint Applications	2
Solid Stripe No. of Stripes	0
Skip Stripe No. of Paint Applications	2
Skip Stripe No. of Stripes	1

## Pay Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
706-1-3	RAISED PAVMT MARK, TYPE B	278.00 EA	\$4.96	\$1,378.88
710-11-231	PAINTED PAVT MARK,STD,YELLOW,SKIP,6"	4.12 GM	\$693.74	\$2,858.21
	Roadway Component Total			\$2,281,766.11
Sequence 2 Tot	al			\$4,261,015.69

Sequence: 3 WDR - Widen/Resurface, Divided, Rural

Net Length: 0.568 MI 3,000 LF

**Description:** M&R and Widening (3000+00 to 3030+00)

#### **EARTHWORK COMPONENT**

## **User Input Data**

Description	Value
Standard Clearing and Grubbing Limits L/R	70.00 / 70.00
Incidental Clearing and Grubbing Area	0.00
Alignment Number	1
Distance	0.568
Top of Structural Course For Begin Section	101.00
Top of Structural Course For End Section	101.00
Horizontal Elevation For Begin Section	100.00
Horizontal Elevation For End Section	100.00
Existing Front Slone L/R	6 to 1 / 6 to 1

Existing Front Slope L/R 6 to 1 / 6 to 1 Existing Median Slope L/R 6 to 1 / 6 to 1 Existing Median Shoulder Cross Slope L/R 5.00 % / 5.00 % Existing Outside Shoulder Cross Slope L/R 6.00 % / 6.00 % Front Slope L/R 6 to 1 / 6 to 1 Median Slope L/R 6 to 1 / 6 to 1 Median Shoulder Cross Slope L/R 5.00 % / 5.00 % Outside Shoulder Cross Slope L/R 6.00 % / 6.00 % Roadway Cross Slope L/R 2.00 % / 2.00 %

#### Pay Items

Pay item	Description	Quantity Unit	Unit Price	<b>Extended Amount</b>
110-1-1	CLEARING & GRUBBING	9.64 AC	\$69,069.09	\$665,826.03

Earthwork Component Total \$665,826.03

#### **ROADWAY COMPONENT**

## **User Input Data**

Description	Value
Number of Lanes	6
Existing Roadway Pavement Width L/R	36.00 / 36.00
Structural Spread Rate	220
Friction Course Spread Rate	80
Widened Outside Pavement Width L/R	12.00 / 12.00
Widened Inside Pavement Width L/R	0.00 / 0.00
Widened Structural Spread Rate	330
Widened Friction Course Spread Rate	80

Pay item	Description	<b>Quantity Unit</b>	Unit Price	<b>Extended Amount</b>
160-4	TYPE B STABILIZATION	16,000.51 SY	\$21.28	\$340,490.85
285-709	OPTIONAL BASE,BASE GROUP 09	8,220.26 SY	\$58.67	\$482,282.65
327-70-5	MILLING EXIST ASPH PAVT, 2" AVG DEPTH	24,000.77 SY	\$7.52	\$180,485.79
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	2,640.08 TN	\$188.86	\$498,605.51
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	1,320.04 TN	\$188.86	\$249,302.75
337-7-25	ASPH CONC FC,INC BIT,FC- 5,PG76-22	960.03 TN	\$247.36	\$237,473.02

337-7-25 ASPH CONC FC,INC BIT,FC-

5,PG76-22

320.01 TN \$247.36

\$79,157.67

X-Items

Pay item	Description	Quantity Unit	Unit Price Exte	nded Amount
709-11-131	TRAF STRIPE-2 RE COMP,STD,WHITE,SKIP,6"	2.27 GM	\$422.97	\$960.14
<b>Comment:</b> Additional stripe for the 8 lane section.  Program only allowed a six lane section				

# **Pavement Marking Subcomponent**

Description	Value
Include Thermo/Tape/Other	N
Pavement Type	Asphalt
Solid Stripe No. of Paint Applications	2
Solid Stripe No. of Stripes	4
Skip Stripe No. of Paint Applications	2
Skip Stripe No. of Stripes	4

## Pay Items

Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	Extended Amount
706-1-3	RAISED PAVMT MARK, TYPE B	384.00 EA	\$4.96	\$1,904.64
710-11-101	PAINTED PAVT MARK,STD,WHITE,SOLID,6"	4.55 GM	\$1,448.71	\$6,591.63
710-11-131	PAINTED PAVT MARK.STD.WHITE.SKIP. 6"	4.55 GM	\$598.83	\$2,724.68

# **Peripherals Subcomponent**

Description	Value
Off Road Bike Path(s)	0
Off Road Bike Path Width L/R	0.00 / 0.00
Bike Path Structural Spread Rate	0
Noise Barrier Wall Length	0.00
Noise Barrier Wall Begin Height	0.00
Noise Barrier Wall End Height	0.00

# Pay Items

Pay item	Description	<b>Quantity Unit</b>	Unit Price E	Extended Amount
339-1	MISCELLANEOUS ASPHALT PAVEMENT	27.13 TN	\$268.77	\$7,291.73
536-1-1	GUARDRAIL- ROADWAY, GEN TL- 3	814.00 LF	\$29.57	\$24,069.98
	Roadway Component Total			\$2,111,341.04

# SHOULDER COMPONENT

# **User Input Data**

Description	Value
Existing Total Outside Shoulder Width L/R	0.00 / 0.00
New Total Outside Shoulder Width L/R	12.00 / 12.00
Total Outside Shoulder Perf. Turf Width L/R	0.00 / 0.00
Existing Paved Outside Shoulder Width L/R	0.00 / 0.00
New Paved Outside Shoulder Width L/R	12.00 / 12.00
Structural Spread Rate	275
Friction Course Spread Rate	80
Total Width (T) / 8" Overlap (O)	Т
Rumble Strips �No. of Sides	2

Pay Items				
Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
285-704	OPTIONAL BASE,BASE GROUP 04	8,220.26 SY	\$42.51	\$349,443.25
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	1,100.04 TN	\$188.86	\$207,753.55
337-7-25	ASPH CONC FC,INC BIT,FC- 5,PG76-22	320.01 TN	\$247.36	\$79,157.67
546-72-1	GROUND-IN RUMBLE STRIPS, 16"	1.14 GM	\$2,141.34	\$2,441.13
X-Items				
Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	Extended Amount
521-72-40	SHLDR CONC BARRIER,38" OR 44" HEIGHT	1,596.00 LF	\$365.80	\$583,816.80
Erosion Contro	ol			
Pay Items				
Pay item	Description	Quantity Unit	Unit Price	Extended Amount
104-10-3	SEDIMENT BARRIER	6,900.22 LF	\$3.32	\$22,908.73
104-11	FLOATING TURBIDITY BARRIER	56.82 LF	\$15.96	\$906.85
104-12	STAKED TURBIDITY BARRIER- NYL REINF PVC	56.82 LF	\$19.18	\$1,089.81
104-15	SOIL TRACKING PREVENTION DEVICE	1.00 EA	\$4,709.30	\$4,709.30
107-1	LITTER REMOVAL	4.13 AC	\$57.63	\$238.01
107-2	MOWING	4.13 AC	\$54.82	\$226.41
	Shoulder Component Total			\$1,252,691.51

# **MEDIAN COMPONENT**

<b>User Input Data</b>	User	Input	Data
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•	
Description	Value
Total Median Width	26.00
Performance Turf Width	5.34
New Total Median Shoulder Width L/R	0.00 / 0.00
New Paved Median Shoulder Width L/R	0.00 / 0.00
Existing Total Median Shoulder Width L/R	12.00 / 12.00
Existing Paved Median Shoulder Width L/R	12.00 / 12.00
Structural Spread Rate	110
Friction Course Spread Rate	80
Total Width (T) / 8" Overlap (O)	Т
Rumble Strips �No. of Sides	0

# Pay Items

Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
327-70-1	MILLING EXIST ASPH PAVT, 1" AVG DEPTH	8,000.26 SY	\$4.30	\$34,401.12
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	440.01 TN	\$188.86	\$83,100.29
337-7-25	ASPH CONC FC,INC BIT,FC- 5,PG76-22	320.01 TN	\$247.36	\$79,157.67
521-1-11	MEDIAN CONC BARRIER, 38" HEIGHT	1,134.00 LF	\$232.40	\$263,541.60
570-1-1	PERFORMANCE TURF	1,780.06 SY	\$6.88	\$12,246.81

# **Median Component Total**

\$472,447.49

## **DRAINAGE COMPONENT**

Pay Items				
Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
430-174-124	PIPE CULV, OPT MATL, ROUND,24"SD	456.00 LF	\$278.89	\$127,173.84
430-175-136	PIPE CULV, OPT MATL, ROUND, 36"S/CD	48.00 LF	\$310.89	\$14,922.72
430-984-129	MITERED END SECT, OPTIONAL RD, 24" SD	23.00 EA	\$3,624.19	\$83,356.37
570-1-1	PERFORMANCE TURF	400.01 SY	\$6.88	\$2,752.07

#### **Retention Basin 1**

Description		Value
Size		.5 AC
Multiplier		1
Depth		6.00
Description	Expand exist pond	

Day Itome

Pay Items				
Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
110-1-1	CLEARING & GRUBBING	0.50 AC	\$14,000.00	\$7,000.00
120-1	REGULAR EXCAVATION	4,840.00 CY	\$104.30	\$504,812.00
425-1-541	INLETS, DT BOT, TYPE D, <10'	1.00 EA	\$11,392.37	\$11,392.37
425-2-71	MANHOLES, J-7, <10'	1.00 EA	\$12,151.00	\$12,151.00
430-175-142	PIPE CULV, OPT MATL, ROUND, 42"S/CD	56.00 LF	\$654.39	\$36,645.84
430-175-160	PIPE CULV, OPT MATL, ROUND, 60"S/CD	200.00 LF	\$612.49	\$122,498.00
550-10-220	FENCING, TYPE B, 5.1-6.0', STANDARD	600.00 LF	\$81.27	\$48,762.00
550-60-234	FENCE GATE,TYP B,SLIDE/CANT,18.1-20'OPEN	1.00 EA	\$5,256.99	\$5,256.99
570-1-1	PERFORMANCE TURF	2,420.00 SY	\$18.06	\$43,705.20
	Drainage Component Total			\$1,020,428.40

# SIGNING COMPONENT

Pay Items				
Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
700-1-111	SINGLE COL GRND SIGN AS, F&I GM, <12 SF	2.00 EA	\$543.45	\$1,086.90
700-1-112	SINGLE COL GRND SIGN AS, F&I GM, 12-20	14.00 EA	\$1,918.21	\$26,854.94
700-1-500	SINGLE COL GRND SIGN AS, RELOCATE	2.00 EA	\$348.10	\$696.20
700-1-600	SINGLE COL GRND SIGN AS, REMOVE	14.00 EA	\$58.36	\$817.04
700-2-114	MULTI- COLUMN SIGN, F&I GM, 30.1-50 SF	2.00 EA	\$8,985.18	\$17,970.36
700-2-600	MULTI- COLUMN GROUND SIGN, REMOVE	2.00 EA	\$1,238.78	\$2,477.56
Y-Itoms				

X-Items

Pay item Description Quantity Unit Unit Price Extended Amount

700-3-294	SIGN PANEL, F&I OH,101-200SF W/L	3.00 EA	\$14,610.88	\$43,832.64
700-4-114	OH STATIC SIGN STR, F&I, C 41- 50 FT	2.00 EA	\$182,265.02	\$364,530.04
700-4-126	OH STATIC SIGN STR, F&I, S 101- 150 FT	1.00 EA	\$350,000.00	\$350,000.00
700-4-127	OH STATIC SIGN STR, F&I, S 151- 200 FT	1.00 EA	\$471,229.35	\$471,229.35
	Signing Component Total			\$1,279,495.03

# **RETAINING WALLS COMPONENT**

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1	CL	an		ıu	~ ~	an	15

Description	Value
Length	1,485.00
Begin height	10.00
End Height	10.00
Multiplier	1

Pay item 548-12	<b>Description</b> RET WALL SYSTEM, PERM, EX BARRIER	Quantity Unit 14,850.00 SF	Unit Price Ex	\$844,965.00
	Retaining Walls Component Total			\$844,965.00
<b>Sequence 3 Total</b> \$7,647,194.50				

0 LF

0.000 MI Sequence: 4 MIS - Miscellaneous Construction Net Length:

**Description: ITS** 

**MISCELLANEOUS COMPONENT** 

**EX-Items** 

Pay item Description **Quantity Unit Unit Price Extended Amount** 

ITS ITS, MOC, 4% OF SUBTOTAL 1.00 1 \$5,053,393.00 \$5,053,393.00

> **Miscellaneous Component Total** \$5,053,393.00

\$5,053,393.00 Sequence 4 Total

Sequence: 5 MIS - Miscellaneous Construction

Net Length:

0.000 MI
0 LF

**Description:** Landscape

LANDSCAPING COMPONENT

**User Input Data** 

 Description
 Value

 Lump Sum
 12,633,484.00

 Cost %
 0.00

 Component Detail
 N

Landscaping Component Total

\$12,633,484.00

**Sequence 5 Total** \$12,633,484.00

Sequence: 6 MIS - Miscellaneous Construction Net Length:

**Description:** 25% Unknown

0.000 MI

0 LF

## **MISCELLANEOUS COMPONENT**

	WIGGELEAREOUG GOWII ONLIN							
EX-Items Pay item	Description	Quantity Unit	Unit Price	Extended Amount				
•	2000	Qualitity Office	J					
25% UNKNOWN	FOR INFLATION	1.00 1	\$36,933,988.00	\$36,933,988.00				
	Miscellaneous Component Total			\$36,933,988.00				
Sequence 6 To	otal			\$36,933,988.00				

Date: 2/12/2025 9:05:39 AM

# FDOT Long Range Estimating System - Production R3: Project Details by Sequence Report

Project: 448068-1-22-01 Letting Date: 01/2099

Description: PD&E WIDEN SUNCOAST PKWY(SR589) - S OF VAN DYKE RD TO SR52 (MP13-29)

District: 08 County: 97 TURNPIKE Market Area: 99 Units: English

Contract Class: 3 Lump Sum Project: N Design/Build: N Project Length: 15.979 MI

Project Manager: SHARMA

Version 21 Project Grand Total \$192,535,285.75

Description: South of Van Dyke Rd to Lutz Lake (4 TO 8 LANES 3000+00 - 3165+00)

**Project Sequences Subtotal** \$158,996,103.93 102-1 Maintenance of Traffic 10.00 % \$15,899,610.39 101-1 Mobilization 10.00 % \$17,489,571.43 **Project Sequences Total** \$192,385,285.75 **Project Unknowns** 0.00 % \$0.00 Design/Build 0.00 % \$0.00

**Non-Bid Components:** 

Pay itemDescriptionQuantity UnitUnit PriceExtended Amount999-25INITIAL CONTINGENCY AMOUNT<br/>(DO NOT BID)LS\$150,000.00\$150,000.00

Project Non-Bid Subtotal \$150,000.00

Version 21 Project Grand Total \$192,535,285.75

Date: 2/12/2025 9:02:00 AM

# FDOT Long Range Estimating System - Production R3: Project Details by Sequence Report

**Project:** 448068-1-22-01 **Letting Date:** 01/2099

Description: PD&E WIDEN SUNCOAST PKWY(SR589) - S OF VAN DYKE RD TO SR52 (MP13-29)

District: 08 County: 97 TURNPIKE Market Area: 99 Units: English

Contract Class: 3 Lump Sum Project: N Design/Build: N Project Length: 15.979 MI

Project Manager: SHARMA

Version 22 Project Grand Total \$51,575,353.09

Description: Lutz Lake to South of SR 54 (4 TO 6 LANES 3165+00 to 3267+00)

Sequence: 1 NDR - New Construction, Divided, Rural

Net Length: 0.417 MI 2,200 LF

Description: Reconstruction (3165+00 - 3187+00)

**Special Conditions:** Aux lanes covered in a separate sequence Lighting included in this sequence

EARTHWORK COMPONENT

**User Input Data** 

Description	Value
Standard Clearing and Grubbing Limits L/R	115.00 / 105.00
Incidental Clearing and Grubbing Area	0.00
All more and All made an	1
Alignment Number	1
Distance	0.417
Top of Structural Course For Begin Section	106.00
Top of Structural Course For End Section	106.00
Horizontal Elevation For Begin Section	100.00
Horizontal Elevation For End Section	100.00
Front Slope L/R	6 to 1 / 6 to 1
Median Slope L/R	6 to 1 / 6 to 1

 $\begin{array}{lll} \mbox{Median Shoulder Cross Slope L/R} & 6.00 \% / 6.00 \% \\ \mbox{Outside Shoulder Cross Slope L/R} & 6.00 \% / 6.00 \% \\ \mbox{Roadway Cross Slope L/R} & 2.00 \% / 2.00 \% \end{array}$ 

Pay Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
110-1-1	CLEARING & GRUBBING	11.12 AC	\$69,069.09	\$768,048.28
120-6	EMBANKMENT	65,809.79 CY	\$24.75	\$1,628,792.30

Earthwork Component Total \$2,396,840.58

**ROADWAY COMPONENT** 

**User Input Data** 

Description	Value
Number of Lanes	6
Roadway Pavement Width L/R	36.00 / 36.00
Structural Spread Rate	330
Friction Course Spread Rate	80

Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
160-4	TYPE B STABILIZATION	29,335.68 SY	\$21.28	\$624,263.27
285-709	OPTIONAL BASE,BASE GROUP 09	17,924.10 SY	\$58.67	\$1,051,606.95
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	2,904.23 TN	\$188.86	\$548,492.88
337-7-25	ASPH CONC FC,INC BIT,FC- 5,PG76-22	704.06 TN	\$247.36	\$174,156.28

# **Pavement Marking Subcomponent**

Description	Value
Include Thermo/Tape/Other	Υ
Pavement Type	Asphalt
Solid Stripe No. of Paint Applications	1
Solid Stripe No. of Stripes	4
Skip Stripe No. of Paint Applications	1
Skip Stripe No. of Stripes	4

## Pay Items

,				
Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
706-1-3	RAISED PAVMT MARK, TYPE B	281.00 EA	\$4.96	\$1,393.76
710-11-101	PAINTED PAVT MARK,STD,WHITE,SOLID,6"	1.67 GM	\$1,448.71	\$2,419.35
710-11-131	PAINTED PAVT MARK,STD,WHITE,SKIP, 6"	1.67 GM	\$598.83	\$1,000.05
711-15-101	THERMOPLASTIC, STD-OP, WHITE, SOLID, 6"	1.67 GM	\$6,541.58	\$10,924.44
711-15-131	THERMOPLASTIC, STD-OP, WHITE, SKIP, 6"	1.67 GM	\$2,228.46	\$3,721.53

# **Peripherals Subcomponent**

Description	Value
Off Road Bike Path(s)	0
Off Road Bike Path Width L/R	0.00 / 0.00
Bike Path Structural Spread Rate	0
Noise Barrier Wall Length	0.00
Noise Barrier Wall Begin Height	0.00
Noise Barrier Wall End Height	0.00

# Pay Items

Pay item	Description	<b>Quantity Unit</b>	Unit Price	Extended Amount
339-1	MISCELLANEOUS ASPHALT PAVEMENT	73.33 TN	\$268.77	\$19,708.90
536-1-3	GUARDRAIL- ROADWAY, DOUBLE FACE	2,200.00 LF	\$32.67	\$71,874.00
544-3-2	CRASH CUSHION, TL-3, WIDE	2.00 EA	\$44,529.70	\$89,059.40
	Roadway Component Total			\$2,598,620.81

# SHOULDER COMPONENT

## **User Input Data**

Description	Value
Total Outside Shoulder Width L/R	12.00 / 12.00
Total Outside Shoulder Perf. Turf Width L/R	0.00 / 0.00
Paved Outside Shoulder Width L/R	12.00 / 12.00
Structural Spread Rate	275
Friction Course Spread Rate	80
Total Width (T) / 8" Overlap (O)	0

2

Pay	ltems
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Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
285-704	OPTIONAL BASE,BASE GROUP 04	6,028.48 SY	\$42.51	\$256,270.68
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	806.73 TN	\$188.86	\$152,359.03
337-7-25	ASPH CONC FC,INC BIT,FC- 5,PG76-22	12.91 TN	\$247.36	\$3,193.42
546-72-1	GROUND-IN RUMBLE STRIPS, 16"	0.83 GM	\$2,141.34	\$1,777.31

## **Erosion Control**

# Pay Items

Pay items				
Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
104-10-3	SEDIMENT BARRIER	5,720.46 LF	\$3.32	\$18,991.93
104-11	FLOATING TURBIDITY BARRIER	104.18 LF	\$15.96	\$1,662.71
104-12	STAKED TURBIDITY BARRIER- NYL REINF PVC	104.18 LF	\$19.18	\$1,998.17
104-15	SOIL TRACKING PREVENTION DEVICE	1.00 EA	\$4,709.30	\$4,709.30
104-18	INLET PROTECTION SYSTEM	3.00 EA	\$192.13	\$576.39
107-1	LITTER REMOVAL	10.10 AC	\$57.63	\$582.06
107-2	MOWING	10.10 AC	\$54.82	\$553.68
	Shoulder Component Total			\$442,674.68

## **MEDIAN COMPONENT**

# **User Input Data**

Description	Value
Total Median Width	54.00
Performance Turf Width	30.00
Total Median Shoulder Width L/R	12.00 / 12.00
Paved Median Shoulder Width L/R	12.00 / 12.00
Structural Spread Rate	275
Friction Course Spread Rate	80
Total Width (T) / 8" Overlap (O)	0
Rumble Strips �No. of Sides	2

# Pay Items

Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
285-704	OPTIONAL BASE,BASE GROUP 04	6,028.48 SY	\$42.51	\$256,270.68
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	806.73 TN	\$188.86	\$152,359.03
337-7-25	ASPH CONC FC,INC BIT,FC- 5,PG76-22	12.91 TN	\$247.36	\$3,193.42
521-1-11	MEDIAN CONC BARRIER, 38" HEIGHT	13,549.00 LF	\$232.40	\$3,148,787.60
546-72-1	GROUND-IN RUMBLE STRIPS, 16"	1.00 GM	\$2,141.34	\$2,141.34
570-1-1	PERFORMANCE TURF	7,333.92 SY	\$6.88	\$50,457.37
	Median Component Total			\$3,613,209.44

# **DRAINAGE COMPONENT**

Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
425-1-551	INLETS, DT BOT, TYPE E, <10'	3.00 EA	\$9,622.55	\$28,867.65
430-174-124	PIPE CULV, OPT MATL, ROUND,24"SD	336.00 LF	\$278.89	\$93,707.04
430-175-124	PIPE CULV, OPT MATL, ROUND, 24"S/CD	144.00 LF	\$228.01	\$32,833.44
430-175-136	PIPE CULV, OPT MATL, ROUND, 36"S/CD	128.00 LF	\$310.89	\$39,793.92
430-984-129	MITERED END SECT, OPTIONAL RD, 24" SD	17.00 EA	\$3,624.19	\$61,611.23
524-1-1	CONCRETE DITCH PAVT, NR, 3"	833.40 SY	\$113.15	\$94,299.21
570-1-1	PERFORMANCE TURF	293.36 SY	\$6.88	\$2,018.32
X-Items				
Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
425-1-790	INLETS, MED BARRIER, TYPE 2, <=10'	21.00 EA	\$7,844.44	\$164,733.24
	<b>Comment:</b> captures median drainage 10 inlets unit price used from state wide unit			
	Drainage Component Total			\$517,864.05

# SIGNING COMPONENT

Pay Items				
Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
700-1-111	SINGLE COL GRND SIGN AS, F&I GM, <12 SF	1.00 EA	\$543.45	\$543.45
700-1-112	SINGLE COL GRND SIGN AS, F&I GM, 12-20	11.00 EA	\$1,918.21	\$21,100.31
700-2-114	MULTI- COLUMN SIGN, F&I GM, 30.1-50 SF	1.00 EA	\$8,985.18	\$8,985.18
700-2-115	MULTI- COLUMN SIGN, F&I GM, 50.1-100 SF	3.00 EA	\$10,791.99	\$32,375.97
X-Items				
Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
700-3-206	SIGN PANEL, F&I OM, 101-200 SF	2.00 EA	\$10,172.19	\$20,344.38
700-4-114	OH STATIC SIGN STR, F&I, C 41- 50 FT	2.00 EA	\$182,265.02	\$364,530.04
	Signing Component Total			\$447,879.33

# INTELLIGENT TRAFFIC SYSTEM (ITS) COMPONENT

# **Description of Work**

14 -	
ıτe	

Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
ITS	ITS	1.00 LS	\$965,909.00	\$965,909.00
	<b>Comment:</b> Matched original LREs - assu \$500,000/mile	ımes		
	Intelligent Traffic System (ITS) Compor	nent Total		\$965,909.00

## LIGHTING COMPONENT

# **Rural Lighting Subcomponent**

Description	g cascomponent			Value
•	mber of Poles)			85
Pay Items	Tiber of Foles)			00
Pay item	Description	Quantity Unit	<b>Unit Price</b>	Extended Amount
630-2-11	CONDUIT, F& I, OPEN TRENCH	17,000.00 LF	\$24.85	\$422,450.00
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24"	85.00 EA	\$1,708.32	\$145,207.20
715-1-13	LIGHTING CONDUCTORS, F&I, INSUL, NO.4-2	51,000.00 LF	\$6.55	\$334,050.00
715-61-442	LIGHT POLE CMPLT,STD,F&I, 45'MH,12'ARM L	85.00 EA	\$16,000.00	\$1,360,000.00
715-500-1	POLE CABLE DIST SYS, CONVENTIONAL	85.00 EA	\$1,175.12	\$99,885.20
	Subcomponent Total			\$2,361,592.40
	Lighting Component Total			\$2,361,592.40
Sequence 1	Total			\$13,344,590.29

Sequence: 3 WDR - Widen/Resurface, Divided, Rural

Net Length: 1.515 MI 8,000 LF

Description: M&R and Widening (3187+00 to 3267+00)

## **EARTHWORK COMPONENT**

## **User Input Data**

Description	Value
Standard Clearing and Grubbing Limits L/R	70.00 / 70.00
Incidental Clearing and Grubbing Area	0.00
Alignment Number	1
Distance	1.515
Top of Structural Course For Begin Section	101.00
Top of Structural Course For End Section	101.00
Horizontal Elevation For Begin Section	100.00
Horizontal Elevation For End Section	100.00
Existing Front Slope L/R	6 to 1 / 6 to 1
Existing Median Slope L/R	6 to 1 / 6 to 1
Existing Median Shoulder Cross Slope L/R	5.00 % / 5.00 %
Existing Outside Shoulder Cross Slope L/R	6.00 % / 6.00 %
Front Slope L/R	6 to 1 / 6 to 1
Median Slope L/R	6 to 1 / 6 to 1

#### Pay Items

Median Shoulder Cross Slope L/R

Outside Shoulder Cross Slope L/R

Roadway Cross Slope L/R

Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
110-1-1	CLEARING & GRUBBING	25.71 AC	\$69,069.09	\$1,775,766.30
	Forthwork Component Total			\$1,775,766.30
	Earthwork Component Total			φ1,110,100.30

## **ROADWAY COMPONENT**

# **User Input Data**

Description	Value
Number of Lanes	6
Existing Roadway Pavement Width L/R	24.00 / 24.00
Structural Spread Rate	220
Friction Course Spread Rate	80
Widened Outside Pavement Width L/R	0.00 / 0.00
Widened Inside Pavement Width L/R	12.00 / 12.00
Widened Structural Spread Rate	330
Widened Friction Course Spread Rate	80

# Pay Items

Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
160-4	TYPE B STABILIZATION	42,668.03 SY	\$21.28	\$907,975.68
285-709	OPTIONAL BASE,BASE GROUP 09	21,920.70 SY	\$58.67	\$1,286,087.47
327-70-5	MILLING EXIST ASPH PAVT, 2" AVG DEPTH	42,668.03 SY	\$7.52	\$320,863.59
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	4,693.48 TN	\$188.86	\$886,410.63
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	3,520.11 TN	\$188.86	\$664,807.97
337-7-25	ASPH CONC FC,INC BIT,FC- 5,PG76-22	1,706.72 TN	\$247.36	\$422,174.26

5.00 % / 5.00 %

6.00 % / 6.00 % 2.00 % / 2.00 % 337-7-25 ASPH CONC FC,INC BIT,FC-5,PG76-22 853.36 TN \$247.36 \$211,087.13

# **Pavement Marking Subcomponent**

Description	Value
Include Thermo/Tape/Other	N
Pavement Type	Asphalt
Solid Stripe No. of Paint Applications	2
Solid Stripe No. of Stripes	4
Skip Stripe No. of Paint Applications	2
Skip Stripe No. of Stripes	4

# Pay Items

Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
706-1-3	RAISED PAVMT MARK, TYPE B	1,023.00 EA	\$4.96	\$5,074.08
710-11-101	PAINTED PAVT MARK,STD,WHITE,SOLID,6"	12.12 GM	\$1,448.71	\$17,558.37
710-11-131	PAINTED PAVT MARK,STD,WHITE,SKIP, 6"	12.12 GM	\$598.83	\$7,257.82

# **Peripherals Subcomponent**

Description	Value
Off Road Bike Path(s)	0
Off Road Bike Path Width L/R	0.00 / 0.00
Bike Path Structural Spread Rate	0
Noise Barrier Wall Length	0.00
Noise Barrier Wall Begin Height	0.00
Noise Barrier Wall End Height	0.00

# Pay Items

i ay itemis				
Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
339-1	MISCELLANEOUS ASPHALT PAVEMENT	253.83 TN	\$268.77	\$68,221.89
536-1-3	GUARDRAIL- ROADWAY, DOUBLE FACE	7,615.00 LF	\$32.67	\$248,782.05
	Roadway Component Total			\$5,046,300.94

## SHOULDER COMPONENT

# **User Input Data**

Description	Value
Existing Total Outside Shoulder Width L/R	12.00 / 12.00
New Total Outside Shoulder Width L/R	0.00 / 0.00
Total Outside Shoulder Perf. Turf Width L/R	0.00 / 0.00
Existing Paved Outside Shoulder Width L/R	12.00 / 12.00
New Paved Outside Shoulder Width L/R	0.00 / 0.00
Structural Spread Rate	275
Friction Course Spread Rate	80
Total Width (T) / 8" Overlap (O)	T
Rumble Strips i; ½No. of Sides	2

Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
327-70-1	MILLING EXIST ASPH PAVT, 1" AVG DEPTH	21,334.02 SY	\$4.30	\$91,736.29
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	2,933.43 TN	\$188.86	\$554,007.59

337-7-25	ASPH CONC FC,INC BIT,FC- 5,PG76-22	853.36 TN	\$247.36	\$211,087.13
546-72-1	GROUND-IN RUMBLE STRIPS, 16"	3.03 GM	\$2.141.34	\$6.488.26

## **Erosion Control**

Pay Item:	S
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Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
104-10-3	SEDIMENT BARRIER	18,400.59 LF	\$3.32	\$61,089.96
104-11	FLOATING TURBIDITY BARRIER	151.52 LF	\$15.96	\$2,418.26
104-12	STAKED TURBIDITY BARRIER- NYL REINF PVC	151.52 LF	\$19.18	\$2,906.15
104-15	SOIL TRACKING PREVENTION DEVICE	2.00 EA	\$4,709.30	\$9,418.60
107-1	LITTER REMOVAL	11.02 AC	\$57.63	\$635.08
107-2	MOWING	11.02 AC	\$54.82	\$604.12
	Shoulder Component Total			\$940,391.44

# **MEDIAN COMPONENT**

# **User Input Data**

Description	Value
Total Median Width	66.00
Performance Turf Width	37.50
New Total Median Shoulder Width L/R	12.00 / 12.00
New Paved Median Shoulder Width L/R	12.00 / 12.00
Existing Total Median Shoulder Width L/R	0.00 / 0.00
Existing Paved Median Shoulder Width L/R	0.00 / 0.00
Structural Spread Rate	110
Friction Course Spread Rate	80
Total Width (T) / 8" Overlap (O)	Т
Rumble Strips �No. of Sides	2

# Pay Items

. uy .too				
Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
285-704	OPTIONAL BASE,BASE GROUP 04	21,920.70 SY	\$42.51	\$931,848.96
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	1,173.37 TN	\$188.86	\$221,602.66
337-7-25	ASPH CONC FC,INC BIT,FC- 5,PG76-22	853.36 TN	\$247.36	\$211,087.13
546-72-1	GROUND-IN RUMBLE STRIPS, 16"	3.00 GM	\$2,141.34	\$6,424.02
570-1-1	PERFORMANCE TURF	33,334.40 SY	\$6.88	\$229,340.67
	Median Component Total			\$1,600,303.44

# **DRAINAGE COMPONENT**

Pay Items				
Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
430-174-124	PIPE CULV, OPT MATL, ROUND,24"SD	1,216.00 LF	\$278.89	\$339,130.24
430-175-136	PIPE CULV, OPT MATL, ROUND, 36"S/CD	128.00 LF	\$310.89	\$39,793.92
430-984-129	MITERED END SECT, OPTIONAL RD, 24" SD	61.00 EA	\$3,624.19	\$221,075.59
570-1-1	PERFORMANCE TURF	1,066.70 SY	\$6.88	\$7,338.90

# **Drainage Component Total**

## SIGNING COMPONENT

Pay Items				
Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
700-1-111	SINGLE COL GRND SIGN AS, F&I GM, <12 SF	4.00 EA	\$543.45	\$2,173.80
700-1-112	SINGLE COL GRND SIGN AS, F&I GM, 12-20	37.00 EA	\$1,918.21	\$70,973.77
700-1-500	SINGLE COL GRND SIGN AS, RELOCATE	4.00 EA	\$348.10	\$1,392.40
700-1-600	SINGLE COL GRND SIGN AS, REMOVE	37.00 EA	\$58.36	\$2,159.32
700-2-114	MULTI- COLUMN SIGN, F&I GM, 30.1-50 SF	4.00 EA	\$8,985.18	\$35,940.72
700-2-600	MULTI- COLUMN GROUND SIGN, REMOVE	4.00 EA	\$1,238.78	\$4,955.12
X-Items				
Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
700-4-114	OH STATIC SIGN STR, F&I, C 41- 50 FT	7.00 EA	\$182,265.02	\$1,275,855.14
,	Signing Component Total			\$1,393,450.27

#### **BRIDGES COMPONENT**

Bridge N	B 2.7
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Description	Value
Estimate Type	SF Estimate
Primary Estimate	YES
Length (LF)	336.00
Width (LF)	27.77
Туре	Overpass Widening
Cost Factor	1.00
Structure No.	140069
Removal of Existing Structures area	1,344.00
Default Cost per SF	\$140.00
Factored Cost per SF	\$140.00
Final Cost per SF	\$152.29
Basic Bridge Cost	\$1,306,300.80

Description NB OVER ANCLOTE RIVER INSIDE WIDENING

# **Bridge Pay Items**

Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
110-3	REMOVAL OF EXISTING STRUCTURES/BRIDGES	1,344.00 SF	\$118.07	\$158,686.08
400-2-10	CONC CLASS II, APPROACH SLABS	61.71 CY	\$1,590.18	\$98,130.01
415-1-9	REINF STEEL- APPROACH SLABS	10,799.25 LB	\$1.53	\$16,522.85
	Bridge NB 2.7 Total			\$1,579,639.74

# Bridge SB 2.7

Description	Value
Estimate Type	SF Estimate

Primary Estimate	YES
Length (LF)	336.00
Width (LF)	27.77
Туре	Overpass Widening
Cost Factor	1.00
Structure No.	140070
Removal of Existing Structures area	1,344.00
Default Cost per SF	\$140.00
Factored Cost per SF	\$140.00
Final Cost per SF	\$152.29
Basic Bridge Cost	\$1,306,300.80

Description SB OVER ANCLOTE RIVER INSIDE WIDENING

# **Bridge Pay Items**

Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	Extended Amount
110-3	REMOVAL OF EXISTING STRUCTURES/BRIDGES	1,344.00 SF	\$118.07	\$158,686.08
400-2-10	CONC CLASS II, APPROACH SLABS	61.71 CY	\$1,590.18	\$98,130.01
415-1-9	REINF STEEL- APPROACH SLABS	10,799.25 LB	\$1.53	\$16,522.85
	Bridge SB 2.7 Total			\$1,579,639.74
	Bridges Component Total			\$3,159,279.48
Sequence 3 T	otal			\$14,522,830.52

Sequence: 4 MIS - Miscellaneous Construction Net Length:  $0.000 \, \text{MI} \\ 0 \, \text{LF}$ 

**Description:** Landscape

LANDSCAPING COMPONENT

**User Input Data** 

 Description
 Value

 Lump Sum
 3,384,496.00

 Cost %
 0.00

 Component Detail
 N

**Landscaping Component Total** 

\$3,384,496.00

**Sequence 4 Total** \$3,384,496.00

Sequence: 5 MIS - Miscellaneous Construction

Net Length:

0.000 MI
0 LF

**Description: ITS** 

**MISCELLANEOUS COMPONENT** 

**EX-Items** 

Pay itemDescriptionQuantity UnitUnit PriceExtended AmountITSITS, MOC, 4% OF SUBTOTAL1.00 1\$1,353,798.00\$1,353,798.00

Miscellaneous Component Total \$1,353,798.00

**Sequence 5 Total** \$1,353,798.00

**Description:** 25% Unknown

**MISCELLANEOUS COMPONENT** 

**EX-Items** 

Pay itemDescriptionQuantity UnitUnit PriceExtended Amount25% UNKNOWN FOR INFLATION1.00 1\$9,894,577.00\$9,894,577.00

Miscellaneous Component Total \$9,894,577.00

**Sequence 6 Total** \$9,894,577.00

\$51,575,353.09

Date: 2/12/2025 9:02:00 AM

# FDOT Long Range Estimating System - Production R3: Project Details by Sequence Report

Project: 448068-1-22-01 Letting Date: 01/2099

Description: PD&E WIDEN SUNCOAST PKWY(SR589) - S OF VAN DYKE RD TO SR52 (MP13-29)

District: 08 County: 97 TURNPIKE Market Area: 99 Units: English

Contract Class: 3 Lump Sum Project: N Design/Build: N Project Length: 15.979 MI

Project Manager: SHARMA

Version 22 Project Grand Total

Description: Lutz Lake to South of SR 54 (4 TO 6 LANES 3165+00 to 3267+00)

Project Se	equences Subtotal		\$42,500,291.81
102-1	Maintenance of Traffic	10.00 %	\$4,250,029.18
101-1	Mobilization	10.00 %	\$4,675,032.10
Project Se	equences Total		\$51,425,353.09
Project Un	knowns	0.00 %	\$0.00
Design/Bui	ild	0.00 %	\$0.00

#### Non-Bid Components:

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
999-25	INITIAL CONTINGENCY AMOUNT (DO NOT BID)	LS	\$150,000.00	\$150,000.00
Project Non-	Bid Subtotal			\$150,000.00

Version 22 Project Grand Total \$51,575,353.09

Date: 2/12/2025 8:38:11 AM

# FDOT Long Range Estimating System - Production R3: Project Details by Sequence Report

**Project:** 448068-1-22-01 **Letting Date:** 01/2099

Description: PD&E WIDEN SUNCOAST PKWY(SR589) - S OF VAN DYKE RD TO SR52 (MP13-29)

District: 08 County: 97 TURNPIKE Market Area: 99 Units: English

Contract Class: 3 Lump Sum Project: N Design/Build: N Project Length: 15.979 MI

Project Manager: SHARMA

Version 23 Project Grand Total \$330,096,486.14

Description: SR 54 to N of SR 52 (4 TO 6 LANES)

Sequence: 2 NDR - New Construction, Divided, Rural

Net Length: 5.758 MI 30,400 LF

Description: SR 54 to Ridge Rd

#### **EARTHWORK COMPONENT**

## **User Input Data**

Description	Value
Standard Clearing and Grubbing Limits L/R	95.00 / 80.00
Incidental Clearing and Grubbing Area	0.00
Alignment Number	1

Alignment Number 5.758 Distance Top of Structural Course For Begin Section 101.70 Top of Structural Course For End Section 101.70 Horizontal Elevation For Begin Section 100.00 Horizontal Elevation For End Section 100.00 Front Slope L/R 6 to 1 / 6 to 1 Median Slope L/R 6 to 1 / 6 to 1 Median Shoulder Cross Slope L/R 6.00 % / 6.00 % Outside Shoulder Cross Slope L/R 6.00 % / 6.00 % Roadway Cross Slope L/R 2.00 % / 2.00 %

Pay Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
110-1-1	CLEARING & GRUBBING	122.14 AC	\$69,069.09	\$8,436,098.65
120-6	EMBANKMENT	57,741.74 CY	\$24.75	\$1,429,108.06

Earthwork Component Total \$9,865,206.72

#### **ROADWAY COMPONENT**

## **User Input Data**

Description	Value
Number of Lanes	6
Roadway Pavement Width L/R	36.00 / 36.00
Structural Spread Rate	330
Friction Course Spread Rate	80

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
160-4	TYPE B STABILIZATION	459.379.71 SY	\$21.28	\$9.775.600.23

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285-709	OPTIONAL BASE,BASE GROUP 09	247,659.71 SY	\$58.67	\$14,530,195.19
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	40,128.17 TN	\$188.86	\$7,578,606.19
337-7-25	ASPH CONC FC,INC BIT,FC- 5,PG76-22	9,728.04 TN	\$247.36	\$2,406,327.97
X-Items				
Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
102-2-200	SPECIAL DETOUR- TEMPORARY PAVEMENT	117,246.00 SY	\$34.59	\$4,055,539.14
	<b>Comment:</b> Quantity from original LRI mileage.	E - adjusted for		
160-4	TYPE B STABILIZATION	48,780.00 SY	\$21.28	\$1,038,038.40
	Comment: 16000 SY for aux lanes. 3	32780 SY for trail.		
285-701	OPTIONAL BASE,BASE GROUP 01	32,780.00 SY	\$27.77	\$910,300.60
	Comment: For trail.			
285-709	OPTIONAL BASE,BASE GROUP 09	16,000.00 SY	\$58.67	\$938,720.00
	Comment: For aux lanes			
334-1-12	SUPERPAVE ASPHALTIC CONC, TRAFFIC B	3,278.00 TN	\$186.77	\$612,232.06
	Comment: For trail.			
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	2,640.00 TN	\$188.86	\$498,590.40
	Comment: For aux lanes			
337-7-25	ASPH CONC FC,INC BIT,FC- 5,PG76-22	640.00 TN	\$247.36	\$158,310.40
	Comment: For aux lanes			
534-72-101	SOUND/NOISE BARRIER-INC FOUNDATION, PERM	116,600.00 SF	\$68.36	\$7,970,776.00
	Comment: Matched quantity from ori	ginal LRE.		
536-8-112	GUARDRA CONN TO RIGID BA, F&I, N APPR 3	2.00 EA	\$3,678.71	\$7,357.42
536-8-122	GUARDRA CONN TO RIGID BA, F&I, APP E3	6.00 EA	\$3,658.10	\$21,948.60
536-8-123	APPROACH TRANS CONN TO RIGID BA, F&I, ET	4.00 EA	\$1,647.49	\$6,589.96
536-85-20	GUARDRAIL END TREAT- TRAILING ANCHORAGE	3.00 EA	\$1,799.59	\$5,398.77

# **Pavement Marking Subcomponent**

Description	Value
Include Thermo/Tape/Other	Υ
Pavement Type	Asphalt
Solid Stripe No. of Paint Applications	1
Solid Stripe No. of Stripes	4
Skip Stripe No. of Paint Applications	1
Skip Stripe No. of Stripes	4

Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
706-1-3	RAISED PAVMT MARK, TYPE B	3,886.00 EA	\$4.96	\$19,274.56
710-11-101	PAINTED PAVT MARK,STD,WHITE,SOLID,6"	23.03 GM	\$1,448.71	\$33,363.79
710-11-131	PAINTED PAVT MARK,STD,WHITE,SKIP, 6"	23.03 GM	\$598.83	\$13,791.05

711-15-101	THERMOPLASTIC, STD-OP, WHITE, SOLID, 6"	23.03 GM	\$6,541.58	\$150,652.59
711-15-131	THERMOPLASTIC, STD-OP, WHITE SKIP 6"	23.03 GM	\$2,228.46	\$51,321.43

# **Peripherals Subcomponent**

Description	Value
Off Road Bike Path(s)	0
Off Road Bike Path Width L/R	0.00 / 0.00
Bike Path Structural Spread Rate	0
Noise Barrier Wall Length	0.00
Noise Barrier Wall Begin Height	0.00
Noise Barrier Wall End Height	0.00

# Pay Items

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Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
339-1	MISCELLANEOUS ASPHALT PAVEMENT	1,609.97 TN	\$268.77	\$432,711.64
536-1-1	GUARDRAIL- ROADWAY, GEN TL- 3	48,229.00 LF	\$29.57	\$1,426,131.53
536-85-24	GUARDRAIL END TREATMENT- PARA APP TERM	7.00 EA	\$3,672.36	\$25,706.52
	Roadway Component Total			\$52,667,484.44

# SHOULDER COMPONENT

# **User Input Data**

Description	Value
Total Outside Shoulder Width L/R	12.00 / 12.00
Total Outside Shoulder Perf. Turf Width L/R	2.00 / 2.00
Paved Outside Shoulder Width L/R	10.00 / 10.00
Structural Spread Rate	275
Friction Course Spread Rate	80
Total Width (T) / 8" Overlap (O)	0
Rumble Strips ï¿1⁄₂No. of Sides	2

# Pay Items

Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
285-704	OPTIONAL BASE,BASE GROUP 04	69,785.18 SY	\$42.51	\$2,966,568.00
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	9,288.93 TN	\$188.86	\$1,754,307.32
337-7-25	ASPH CONC FC,INC BIT,FC- 5,PG76-22	178.35 TN	\$247.36	\$44,116.66
546-72-1	GROUND-IN RUMBLE STRIPS, 16"	11.52 GM	\$2,141.34	\$24,668.24
570-1-1	PERFORMANCE TURF	13,511.17 SY	\$6.88	\$92,956.85

## **Erosion Control**

Pay item	Description	<b>Quantity Unit</b>	Unit Price	Extended Amount
104-10-3	SEDIMENT BARRIER	79,040.33 LF	\$3.32	\$262,413.90
104-11	FLOATING TURBIDITY BARRIER	1,439.40 LF	\$15.96	\$22,972.82
104-12	STAKED TURBIDITY BARRIER- NYL REINF PVC	1,439.40 LF	\$19.18	\$27,607.69
104-15	SOIL TRACKING PREVENTION DEVICE	6.00 EA	\$4,709.30	\$28,255.80

107 2	Shoulder Component Total	100.00 710	φο 1.02	\$5,246,285.35
107-2	MOWING	139.56 AC	\$54.82	\$7.650.68
107-1	LITTER REMOVAL	139.56 AC	\$57.63	\$8,042.84
104-18	INLET PROTECTION SYSTEM	35.00 EA	\$192.13	\$6,724.55

# **MEDIAN COMPONENT**

User Input Da	ata
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Description	Value
Total Median Width	40.00
Performance Turf Width	5.50
Total Median Shoulder Width L/R	20.00 / 20.00
Paved Median Shoulder Width L/R	10.00 / 10.00
Structural Spread Rate	275
Friction Course Spread Rate	80
Total Width (T) / 8" Overlap (O)	0
Rumble Strips �No. of Sides	2

# Pay Items

Pay item	Description	<b>Quantity Unit</b>	Unit Price	Extended Amount
285-704	OPTIONAL BASE,BASE GROUP 04	69,785.18 SY	\$42.51	\$2,966,568.00
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	9,288.93 TN	\$188.86	\$1,754,307.32
337-7-25	ASPH CONC FC,INC BIT,FC- 5,PG76-22	178.35 TN	\$247.36	\$44,116.66
521-1-11	MEDIAN CONC BARRIER, 38" HEIGHT	1,341.00 LF	\$232.40	\$311,648.40
546-72-1	GROUND-IN RUMBLE STRIPS, 16"	12.00 GM	\$2,141.34	\$25,696.08
570-1-1	PERFORMANCE TURF	18,577.86 SY	\$6.88	\$127,815.68
	Median Component Total			\$5,230,152.14

# **DRAINAGE COMPONENT**

Pay Items				
Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
425-1-551	INLETS, DT BOT, TYPE E, <10'	35.00 EA	\$9,622.55	\$336,789.25
430-174-124	PIPE CULV, OPT MATL, ROUND,24"SD	4,608.00 LF	\$278.89	\$1,285,125.12
430-175-124	PIPE CULV, OPT MATL, ROUND, 24"S/CD	1,984.00 LF	\$228.01	\$452,371.84
430-175-136	PIPE CULV, OPT MATL, ROUND, 36"S/CD	1,712.00 LF	\$310.89	\$532,243.68
430-984-129	MITERED END SECT, OPTIONAL RD, 24" SD	231.00 EA	\$3,624.19	\$837,187.89
524-1-1	CONCRETE DITCH PAVT, NR, 3"	11,515.20 SY	\$113.15	\$1,302,944.88
570-1-1	PERFORMANCE TURF	4,053.35 SY	\$6.88	\$27,887.05
X-Items				
Pay item	Description	<b>Quantity Unit</b>	Unit Price	Extended Amount
425-1-790	INLETS, MED BARRIER, TYPE 2, <=10'	11.00 EA	\$7,844.44	\$86,288.84
	<b>Comment:</b> captures median drainage 5,350/500' = 11 inlets unit price used from state wide unit cost (\$7,844.44)			

#### **Retention Basin 1**

Description	Value
Size	5 AC
Multiplier	1
Depth	6.00
Description	Expand exist pond (10 locations)

# Pay Items

Pay items				
Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
110-1-1	CLEARING & GRUBBING	5.00 AC	\$27,000.00	\$135,000.00
120-1	REGULAR EXCAVATION	48,400.00 CY	\$104.30	\$5,048,120.00
425-1-541	INLETS, DT BOT, TYPE D, <10'	1.00 EA	\$11,392.37	\$11,392.37
425-2-71	MANHOLES, J-7, <10'	2.00 EA	\$12,151.00	\$24,302.00
430-175-142	PIPE CULV, OPT MATL, ROUND, 42"S/CD	56.00 LF	\$654.39	\$36,645.84
430-175-160	PIPE CULV, OPT MATL, ROUND, 60"S/CD	400.00 LF	\$612.49	\$244,996.00
550-10-220	FENCING, TYPE B, 5.1-6.0', STANDARD	1,860.00 LF	\$81.27	\$151,162.20
550-60-234	FENCE GATE,TYP B,SLIDE/CANT,18.1-20'OPEN	2.00 EA	\$5,256.99	\$10,513.98
570-1-1	PERFORMANCE TURF	24,200.00 SY	\$18.06	\$437,052.00
	Drainage Component Total			\$10,960,022.94

# **SIGNING COMPONENT**

Pay Items				
Pay item	Description	Quantity Unit	<b>Unit Price</b>	<b>Extended Amount</b>
700-1-111	SINGLE COL GRND SIGN AS, F&I GM, <12 SF	12.00 EA	\$543.45	\$6,521.40
700-1-112	SINGLE COL GRND SIGN AS, F&I GM, 12-20	139.00 EA	\$1,918.21	\$266,631.19
700-2-114	MULTI- COLUMN SIGN, F&I GM, 30.1-50 SF	12.00 EA	\$8,985.18	\$107,822.16
700-2-115	MULTI- COLUMN SIGN, F&I GM, 50.1-100 SF	35.00 EA	\$10,791.99	\$377,719.65
X-Items				
Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
700-3-209	SIGN PANEL, F&I OM, 401-500 SF	10.00 EA	\$14,200.00	\$142,000.00
	Comment: Matched original LRE quantitie	S.		
700-3-629	SIGN PANEL, REMOVE, 401-500 SF W LIGHT	7.00 EA	\$2,679.20	\$18,754.40
	Comment: Matched original LRE quantitie	S.		
700-4-114	OH STATIC SIGN STR, F&I, C 41- 50 FT	16.00 EA	\$182,265.02	\$2,916,240.32
700-4-622	OH STATIC SIGN STR, DEEP REMOVE, SPAN	1.00 EA	\$40,771.81	\$40,771.81
	Comment: Matched original LRE quantitie	S.		
	Signing Component Total			\$3,876,460.93

## LIGHTING COMPONENT

# **Rural Lighting Subcomponent**

Description Multiplier (Nur Pay Items	nber of Poles)			<b>Value</b> 245
Pay item	Description	<b>Quantity Unit</b>	Unit Price	<b>Extended Amount</b>
630-2-11	CONDUIT, F& I, OPEN TRENCH	49,000.00 LF	\$24.85	\$1,217,650.00
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24"	245.00 EA	\$1,708.32	\$418,538.40
715-1-13	LIGHTING CONDUCTORS, F&I, INSUL, NO.4-2	147,000.00 LF	\$6.55	\$962,850.00
715-61-442	LIGHT POLE CMPLT,STD,F&I, 45'MH,12'ARM L	245.00 EA	\$16,000.00	\$3,920,000.00
715-500-1	POLE CABLE DIST SYS, CONVENTIONAL	245.00 EA	\$1,175.12	\$287,904.40
	Subcomponent Total			\$6,806,942.80
	Lighting Component Total			\$6,806,942.80

# **BRIDGES COMPONENT**

Bridge	NB2.9
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•	
Description	Value
Estimate Type	SF Estimate
Primary Estimate	YES
Length (LF)	240.00
Width (LF)	34.83
Туре	Overpass Widening
Cost Factor	1.00
Structure No.	140074
Removal of Existing Structures area	6.08
Default Cost per SF	\$140.00
Factored Cost per SF	\$140.00
Final Cost per SF	\$157.20
Basic Bridge Cost	\$1,170,288.00
Description	NB OVER SANDY BRANCH RIVER - INSIDE AND OUTSIDE WIDENING

# **Bridge Pay Items**

Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
110-3	REMOVAL OF EXISTING STRUCTURES/BRIDGES	6.08 SF	\$118.07	\$717.87
400-2-10	CONC CLASS II, APPROACH SLABS	77.40 CY	\$1,590.18	\$123,079.93
415-1-9	REINF STEEL- APPROACH SLABS	13,545.00 LB	\$1.53	\$20,723.85
	Bridge NB2.9 Total			\$1,314,809.65

# Bridge SB2.9

Description	Value
Estimate Type	SF Estimate
Primary Estimate	YES
Length (LF)	240.00
Width (LF)	34.08
Туре	Overpass Widening
Cost Factor	1.00
Structure No.	140075
Removal of Existing Structures area	5.12
Default Cost per SF	\$140.00
Factored Cost per SF	\$140.00

Final Cost per SF \$157.20

Basic Bridge Cost \$1,145,088.00

SB OVER SANDY BRANCH RIVER - INSIDE AND OUTSIDE

Description WIDENING. INCLUDES WIDENING FOR TRAIL.

## **Bridge Pay Items**

Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	Extended Amount
110-3	REMOVAL OF EXISTING STRUCTURES/BRIDGES	5.12 SF	\$118.07	\$604.52
400-2-10	CONC CLASS II, APPROACH SLABS	75.73 CY	\$1,590.18	\$120,424.33
415-1-9	REINF STEEL- APPROACH SLABS	13,252.75 LB	\$1.53	\$20,276.71
	Bridge SB2.9 Total			\$1,286,393.56

# Bridge NB2.10

Description	Value
Estimate Type	SF Estimate
Primary Estimate	YES
Length (LF)	845.00
Width (LF)	18.33
Туре	Overpass Widening
Cost Factor	1.00
Structure No.	140076
Removal of Existing Structures area	2.04
Default Cost per SF	\$140.00
Factored Cost per SF	\$140.00
Final Cost per SF	\$154.92
Basic Bridge Cost	\$2,168,439.00

Description NB OVER ANCLOTE RIVER - INSIDE WIDENING

## **Bridge Pay Items**

Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
110-3	REMOVAL OF EXISTING STRUCTURES/BRIDGES	2.04 SF	\$118.07	\$240.86
400-2-10	CONC CLASS II, APPROACH SLABS	40.73 CY	\$1,590.18	\$64,768.03
415-1-9	REINF STEEL- APPROACH SLABS	7,127.75 LB	\$1.53	\$10,905.46

## **Bridge X-Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
460-71-4	METAL TRAF RAILING, RECTANGULAR TUBE RET	845.00 LF	\$183.95	\$155,437.75

**Bridge NB2.10 Total** \$2,399,791.10

# Bridge SB2.10

Bridge OBZ.10	
Description	Value
Estimate Type	SF Estimate
Primary Estimate	YES
Length (LF)	845.00
Width (LF)	18.85
Туре	Overpass Widening
Cost Factor	1.00
Structure No.	140077
Removal of Existing Structures area	2.56

Default Cost per SF \$140.00
Factored Cost per SF \$140.00
Final Cost per SF \$154.64
Basic Bridge Cost \$2,229,955.00

Description SB OVER ANCLOTE RIVER - INSIDE WIDENING

# **Bridge Pay Items**

Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
110-3	REMOVAL OF EXISTING STRUCTURES/BRIDGES	2.56 SF	\$118.07	\$302.26
400-2-10	CONC CLASS II, APPROACH SLABS	41.89 CY	\$1,590.18	\$66,612.64
415-1-9	REINF STEEL- APPROACH SLABS	7,330.75 LB	\$1.53	\$11,216.05

Bridge X-Items						
Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>		
460-71-4	METAL TRAF RAILING, RECTANGULAR TUBE RET	845.00 LF	\$183.95	\$155,437.75		
	Bridge SB2.10 Total			\$2,463,523.70		
	Bridges Component Total			\$7,464,518.01		

## **ARCHITECTURAL COMPONENT**

#### **EX-Items**

Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
TOLL	NEW EQUIPMENT	1.00 LS	\$200,000.00	\$200,000.00
	<b>Comment:</b> New equipment cost for exist gantry.	ing mainline toll		
	Architectural Component Total			\$200,000.00

**Sequence 2 Total** \$102,317,073.33

Sequence: 3 NDR - New Construction, Divided, Rural

Net Length: 4.567 MI 24,111 LF

**Description:** Ridge Rd to N of SR 52

## **EARTHWORK COMPONENT**

# **User Input Data**

<b>Description</b> Standard Clearing and Grubbing Limits L/R	<b>Value</b> 95.00 / 80.00
Incidental Clearing and Grubbing Area	0.00
Alignment Number	1
Distance	4.567
Top of Structural Course For Begin Section	102.10
Top of Structural Course For End Section	102.10
Horizontal Elevation For Begin Section	100.00
Horizontal Elevation For End Section	100.00
Front Slope L/R	6 to 1 / 6 to 1
Median Slope L/R	6 to 1 / 6 to 1
Median Shoulder Cross Slope L/R	6.00 % / 6.00 %
Outside Shoulder Cross Slope L/R	6.00 % / 6.00 %
Roadway Cross Slope L/R	2.00 % / 2.00 %

## Pay Items

Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
110-1-1	CLEARING & GRUBBING	96.85 AC	\$69,069.09	\$6,689,341.37
120-6	EMBANKMENT	96,347.87 CY	\$24.75	\$2,384,609.78
	Earthwork Component Total			\$9,073,951.15

# **ROADWAY COMPONENT**

## **User Input Data**

Description	Value
Number of Lanes	6
Roadway Pavement Width L/R	36.00 / 36.00
Structural Spread Rate	330
Friction Course Spread Rate	80

# Pay Items

Pay item	Description	<b>Quantity Unit</b>	Unit Price	Extended Amount
160-4	TYPE B STABILIZATION	364,345.81 SY	\$21.28	\$7,753,278.84
285-709	OPTIONAL BASE,BASE GROUP 09	196,425.26 SY	\$58.67	\$11,524,270.00
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	31,826.68 TN	\$188.86	\$6,010,786.78
337-7-25	ASPH CONC FC,INC BIT,FC- 5,PG76-22	7,715.56 TN	\$247.36	\$1,908,520.92

# X-Items

X-Items				
Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
102-2-200	SPECIAL DETOUR- TEMPORARY PAVEMENT	119,156.00 SY	\$34.59	\$4,121,606.04
	<b>Comment:</b> Original LRE quantity - ac differences.	ljusted for mileage		
160-4	TYPE B STABILIZATION	26,022.00 SY	\$21.28	\$553,748.16
	Comment: 14022 SY for trail 12 000	SY for aux lanes		

		,	•	
285-701	OPTIONAL BASE,BASE GROUP 01	14,022.00 SY	\$27.77	\$389,390.94
	Comment: For trail			
285-709	OPTIONAL BASE,BASE GROUP 09	12,000.00 SY	\$58.67	\$704,040.00
	Comment: For aux lanes			
334-1-12	SUPERPAVE ASPHALTIC CONC, TRAFFIC B	1,402.20 TN	\$186.77	\$261,888.89
	Comment: For trail			
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	1,980.00 TN	\$188.86	\$373,942.80
	Comment: For aux lanes			
337-7-25	ASPH CONC FC,INC BIT,FC- 5,PG76-22	480.00 TN	\$247.36	\$118,732.80
	Comment: For aux lanes			
339-1	MISCELLANEOUS ASPHALT PAVEMENT	566.70 TN	\$268.77	\$152,311.96
	Comment: For additional guardrail			
534-72-101	SOUND/NOISE BARRIER-INC FOUNDATION, PERM	17,600.00 SF	\$68.36	\$1,203,136.00
	Comment: Matched original LRE qua	antity.		
536-1-1	GUARDRAIL- ROADWAY, GEN TL-3	22,675.00 LF	\$29.57	\$670,499.75
536-8-112	GUARDRA CONN TO RIGID BA, F&I, N APPR 3	8.00 EA	\$3,678.71	\$29,429.68
536-8-122	GUARDRA CONN TO RIGID BA, F&I, APP E3	8.00 EA	\$3,658.10	\$29,264.80
536-8-123	APPROACH TRANS CONN TO RIGID BA, F&I, ET	5.00 EA	\$1,647.49	\$8,237.45

# **Pavement Marking Subcomponent**

Description	Value
Include Thermo/Tape/Other	Υ
Pavement Type	Asphalt
Solid Stripe No. of Paint Applications	1
Solid Stripe No. of Stripes	4
Skip Stripe No. of Paint Applications	1
Skip Stripe No. of Stripes	4

## Pay Items

Pay item	Description	<b>Quantity Unit</b>	Unit Price	Extended Amount
706-1-3	RAISED PAVMT MARK, TYPE B	3,082.00 EA	\$4.96	\$15,286.72
710-11-101	PAINTED PAVT MARK,STD,WHITE,SOLID,6"	18.27 GM	\$1,448.71	\$26,467.93
710-11-131	PAINTED PAVT MARK,STD,WHITE,SKIP, 6"	18.27 GM	\$598.83	\$10,940.62
711-15-101	THERMOPLASTIC, STD-OP, WHITE, SOLID, 6"	18.27 GM	\$6,541.58	\$119,514.67
711-15-131	THERMOPLASTIC, STD-OP, WHITE, SKIP, 6"	18.27 GM	\$2,228.46	\$40,713.96

# **Peripherals Subcomponent**

Description	Value
Off Road Bike Path(s)	0
Off Road Bike Path Width L/R	0.00 / 0.00
Bike Path Structural Spread Rate	0
Noise Barrier Wall Length	0.00
Noise Barrier Wall Begin Height	0.00
Noise Barrier Wall End Height	0.00

Pay Items				
Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
339-1	MISCELLANEOUS ASPHALT PAVEMENT	404.77 TN	\$268.77	\$108,790.03
536-1-3	GUARDRAIL- ROADWAY, DOUBLE FACE	12,063.00 LF	\$32.67	\$394,098.21
536-85-24	GUARDRAIL END TREATMENT- PARA APP TERM	8.00 EA	\$3,672.36	\$29,378.88
	Roadway Component Total			\$36,558,276.83

## SHOULDER COMPONENT

# **User Input Data**

Description	Value
Total Outside Shoulder Width L/R	12.00 / 12.00
Total Outside Shoulder Perf. Turf Width L/R	2.00 / 2.00
Paved Outside Shoulder Width L/R	10.00 / 10.00
Structural Spread Rate	275
Friction Course Spread Rate	80
Total Width (T) / 8" Overlap (O)	0
Rumble Strips �No. of Sides	2

# Pay Items

Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	Extended Amount
285-704	OPTIONAL BASE,BASE GROUP 04	55,348.42 SY	\$42.51	\$2,352,861.33
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	7,367.29 TN	\$188.86	\$1,391,386.39
337-7-25	ASPH CONC FC,INC BIT,FC- 5,PG76-22	141.45 TN	\$247.36	\$34,989.07
546-72-1	GROUND-IN RUMBLE STRIPS, 16"	9.13 GM	\$2,141.34	\$19,550.43
570-1-1	PERFORMANCE TURF	10,716.05 SY	\$6.88	\$73,726.42

# **Erosion Control**

# Pay Items

Pay item	Description	<b>Quantity Unit</b>	Unit Price	<b>Extended Amount</b>
104-10-3	SEDIMENT BARRIER	62,688.91 LF	\$3.32	\$208,127.18
104-11	FLOATING TURBIDITY BARRIER	1,141.62 LF	\$15.96	\$18,220.26
104-12	STAKED TURBIDITY BARRIER- NYL REINF PVC	1,141.62 LF	\$19.18	\$21,896.27
104-15	SOIL TRACKING PREVENTION DEVICE	5.00 EA	\$4,709.30	\$23,546.50
104-18	INLET PROTECTION SYSTEM	28.00 EA	\$192.13	\$5,379.64
107-1	LITTER REMOVAL	110.69 AC	\$57.63	\$6,379.06
107-2	MOWING	110.69 AC	\$54.82	\$6,068.03
	Shoulder Component Total			\$4,162,130.58

## **MEDIAN COMPONENT**

# **User Input Data**

Description	Value
Total Median Width	40.00
Performance Turf Width	5.50

Total Median Shoulder Width L/R	20.00 / 20.00
Paved Median Shoulder Width L/R	10.00 / 10.00
Structural Spread Rate	275
Friction Course Spread Rate	80
Total Width (T) / 8" Overlap (O)	0
Rumble Strips �No. of Sides	2

Pay I	tems
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Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
285-704	OPTIONAL BASE,BASE GROUP 04	55,348.42 SY	\$42.51	\$2,352,861.33
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	7,367.29 TN	\$188.86	\$1,391,386.39
337-7-25	ASPH CONC FC,INC BIT,FC- 5,PG76-22	141.45 TN	\$247.36	\$34,989.07
546-72-1	GROUND-IN RUMBLE STRIPS, 16"	9.00 GM	\$2,141.34	\$19,272.06
570-1-1	PERFORMANCE TURF	14,734.57 SY	\$6.88	\$101,373.84
	Median Component Total			\$3,899,882.69

# **DRAINAGE COMPONENT**

Pay Items				
Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
425-1-551	INLETS, DT BOT, TYPE E, <10'	28.00 EA	\$9,622.55	\$269,431.40
430-174-124	PIPE CULV, OPT MATL, ROUND,24"SD	3,656.00 LF	\$278.89	\$1,019,621.84
430-175-124	PIPE CULV, OPT MATL, ROUND, 24"S/CD	1,576.00 LF	\$228.01	\$359,343.76
430-175-136	PIPE CULV, OPT MATL, ROUND, 36"S/CD	1,352.00 LF	\$310.89	\$420,323.28
430-984-129	MITERED END SECT, OPTIONAL RD, 24" SD	183.00 EA	\$3,624.19	\$663,226.77
524-1-1	CONCRETE DITCH PAVT, NR, 3"	9,133.00 SY	\$113.15	\$1,033,398.95
570-1-1	PERFORMANCE TURF	3,214.82 SY	\$6.88	\$22,117.96

# **Retention Basin 1**

Description	Value
Size	2 AC
Multiplier	1
Depth	6.00
Description	Expand exist pond (4 locations)

Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
110-1-1	CLEARING & GRUBBING	2.00 AC	\$27,000.00	\$54,000.00
120-1	REGULAR EXCAVATION	19,360.00 CY	\$104.30	\$2,019,248.00
425-1-541	INLETS, DT BOT, TYPE D, <10'	1.00 EA	\$11,392.37	\$11,392.37
425-2-71	MANHOLES, J-7, <10'	1.00 EA	\$12,151.00	\$12,151.00
430-175-142	PIPE CULV, OPT MATL, ROUND, 42"S/CD	56.00 LF	\$654.39	\$36,645.84
430-175-160	PIPE CULV, OPT MATL, ROUND, 60"S/CD	200.00 LF	\$612.49	\$122,498.00
550-10-220	FENCING, TYPE B, 5.1-6.0', STANDARD	1,180.00 LF	\$81.27	\$95,898.60
550-60-234	FENCE GATE,TYP B,SLIDE/CANT,18.1-20'OPEN	1.00 EA	\$5,256.99	\$5,256.99

570-1-1 PERFORMANCE TURF 9,680.00 SY \$18.06 \$174,820.80

**Drainage Component Total** 

\$6,319,375.56

#### **SIGNING COMPONENT**

Pay Items				
Pay item	Description	Quantity Unit	Unit Price	Extended Amount
700-1-111	SINGLE COL GRND SIGN AS, F&I GM, <12 SF	10.00 EA	\$543.45	\$5,434.50
700-1-112	SINGLE COL GRND SIGN AS, F&I GM, 12-20	110.00 EA	\$1,918.21	\$211,003.10
700-2-114	MULTI- COLUMN SIGN, F&I GM, 30.1-50 SF	10.00 EA	\$8,985.18	\$89,851.80
700-2-115	MULTI- COLUMN SIGN, F&I GM, 50.1-100 SF	28.00 EA	\$10,791.99	\$302,175.72
X-Items				
Pay item	Description	Quantity Unit	Unit Price	<b>Extended Amount</b>
700-3-206	SIGN PANEL, F&I OM, 101-200 SF	10.00 EA	\$10,172.19	\$101,721.90
700-4-114	OH STATIC SIGN STR, F&I, C 41- 50 FT	10.00 EA	\$182,265.02	\$1,822,650.20
700-4-622	OH STATIC SIGN STR, DEEP REMOVE, SPAN	1.00 EA	\$40,771.81	\$40,771.81
	Comment: Matched original LRE quantitie	es.		
700-8-136	FRONT ACC DYN MESS SIGN, F&I, FULL,101-	1.00 EA	\$128,141.44	\$128,141.44
	Comment: Matched original LRE quantitie	es.		
700-8-600	FRONT ACC DYN MESS SIGN, REMOVE	1.00 EA	\$5,193.71	\$5,193.71
	Comment: Matched original LRE quantities	es.		
	Signing Component Total			\$2,706,944.18

## INTELLIGENT TRAFFIC SYSTEM (ITS) COMPONENT

# **Description of Work**

Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
ITS	ITS	1.00 LS	\$2,283,500.00	\$2,283,500.00
	<b>Comment:</b> Matched original LRE estimates \$500,000/mile	te - assumes		
	Intelligent Traffic System (ITS) Compor	nent Total		\$2,283,500.00

#### LIGHTING COMPONENT

## **Rural Lighting Subcomponent**

• • •		
Description		Value
Multiplier (Number of Poles)		43
Pay Items		
Pay itom Description	Quantity Unit Unit Price	Evtondoc

Pay item	Description	Quantity Unit	<b>Unit Price</b>	Extended Amount
630-2-11	CONDUIT, F& I, OPEN TRENCH	8,600.00 LF	\$24.85	\$213,710.00
635-2-11	PULL & SPLICE BOX, F&I, 13" x	43.00 EA	\$1,708.32	\$73,457.76

715-1-13	LIGHTING CONDUCTORS, F&I, INSUL, NO.4-2	25,800.00 LF	\$6.55	\$168,990.00
715-61-442	LIGHT POLE CMPLT,STD,F&I, 45'MH,12'ARM L	43.00 EA	\$16,000.00	\$688,000.00
715-500-1	POLE CABLE DIST SYS, CONVENTIONAL	43.00 EA	\$1,175.12	\$50,530.16
	Subcomponent Total			\$1,194,687.92
	Lighting Component Total			\$1,194,687.92

## **BRIDGES COMPONENT**

Bridge	NB2.11
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Description	Value
Estimate Type	SF Estimate
Primary Estimate	YES
Length (LF)	212.00
Width (LF)	19.33
Туре	Overpass Widening
Cost Factor	1.00
Structure No.	140089
Removal of Existing Structures area	3.04
Default Cost per SF	\$140.00
Factored Cost per SF	\$140.00
Final Cost per SF	\$168.99
Basic Bridge Cost	\$573,714.40
	ALD DDIDGE OVER DIDGE DOAD INJOIDE MUDENING

Description NB BRIDGE OVER RIDGE ROAD - INSIDE WIDENING

## **Bridge Pay Items**

Pay item	Description	Quantity Unit	<b>Unit Price</b>	<b>Extended Amount</b>
110-3	REMOVAL OF EXISTING STRUCTURES/BRIDGES	3.04 SF	\$118.07	\$358.93
400-2-10	CONC CLASS II, APPROACH SLABS	42.96 CY	\$1,590.18	\$68,314.13
415-1-9	REINF STEEL- APPROACH SLABS	7,518.00 LB	\$1.53	\$11,502.54

## **Bridge X-Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
460-71-4	METAL TRAF RAILING, RECTANGULAR TUBE RET	212.00 LF	\$183.95	\$38,997.40

**Bridge NB2.11 Total** \$692,887.40

# Bridge SB2.11

Description	Value
Estimate Type	SF Estimate
Primary Estimate	YES
Length (LF)	212.00
Width (LF)	19.33
Туре	Overpass Widening
Cost Factor	1.00
Structure No.	140090
Removal of Existing Structures area	3.04
Default Cost per SF	\$140.00
Factored Cost per SF	\$140.00
Final Cost per SF	\$168.99
Basic Bridge Cost	\$573,714.40

#### Description

Bridge Pay Items					
Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>	
110-3	REMOVAL OF EXISTING STRUCTURES/BRIDGES	3.04 SF	\$118.07	\$358.93	
400-2-10	CONC CLASS II, APPROACH SLABS	42.96 CY	\$1,590.18	\$68,314.13	
415-1-9	REINF STEEL- APPROACH SLABS	7,518.00 LB	\$1.53	\$11,502.54	
Bridge X-Item	s				
Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>	
460-71-4	METAL TRAF RAILING, RECTANGULAR TUBE RET	212.00 LF	\$183.95	\$38,997.40	
	Bridge SB2.11 Total			\$692,887.40	

# Bridge NB2.12

Description	Value
Description	
Estimate Type	SF Estimate
Primary Estimate	YES
Length (LF)	594.33
Width (LF)	19.33
Туре	Overpass Widening
Cost Factor	1.00
Structure No.	140078
Removal of Existing Structures area	3.04
Default Cost per SF	\$140.00
Factored Cost per SF	\$140.00
Final Cost per SF	\$156.46
Basic Bridge Cost	\$1,608,375.85
Description	NB OVER FIVE MILE CREEK - INSIDE WIDENING

Bridge Pay Items

bridge i dy items				
Pay item	Description	<b>Quantity Unit</b>	Unit Price	<b>Extended Amount</b>
110-3	REMOVAL OF EXISTING STRUCTURES/BRIDGES	3.04 SF	\$118.07	\$358.93
400-2-10	CONC CLASS II, APPROACH SLABS	42.96 CY	\$1,590.18	\$68,314.13
415-1-9	REINF STEEL- APPROACH SLABS	7,518.00 LB	\$1.53	\$11,502.54
Bridge X-Item	s			

Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
460-71-4	METAL TRAF RAILING, RECTANGULAR TUBE RET	594.33 LF	\$183.95	\$109,327.00

**Bridge NB2.12 Total** \$1,797,878.45

### Bridge SB2.12

•	
Description	Value
Estimate Type	SF Estimate
Primary Estimate	YES
Length (LF)	594.33
Width (LF)	18.85
Туре	Overpass Widening
Cost Factor	1.00

Structure No.	140079
Removal of Existing Structures area	15.14
Default Cost per SF	\$140.00
Factored Cost per SF	\$140.00
Final Cost per SF	\$156.71
Basic Bridge Cost	\$1,568,436.87
Description	SB OVER FIVE MILE CREEK - INSIDE WIDENING, REMOVE OUTSIDE TRAIL PORTION

## **Bridge Pay Items**

Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
110-3	REMOVAL OF EXISTING STRUCTURES/BRIDGES	15.14 SF	\$118.07	\$1,787.58
400-2-10	CONC CLASS II, APPROACH SLABS	41.89 CY	\$1,590.18	\$66,612.64
415-1-9	REINF STEEL- APPROACH SLABS	7,330.75 LB	\$1.53	\$11,216.05

## **Bridge X-Items**

Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
460-71-4	METAL TRAF RAILING, RECTANGULAR TUBE RET	594.33 LF	\$183.95	\$109,327.00

# **Bridge SB2.12 Total** \$1,757,380.14

## Bridge NB2.13

Description	Value
Estimate Type	SF Estimate
Primary Estimate	YES
Length (LF)	528.33
Width (LF)	19.33
Туре	Overpass Widening
Cost Factor	1.00
Structure No.	140080
Removal of Existing Structures area	3.04
Default Cost per SF	\$140.00
Factored Cost per SF	\$140.00
Final Cost per SF	\$159.75
Basic Bridge Cost	\$1,429,766.65
Description	NB OVER PITHLACHASCOTEE RIVER - INSIDE WIDENING

## **Bridge Pay Items**

Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
110-3	REMOVAL OF EXISTING STRUCTURES/BRIDGES	3.04 SF	\$118.07	\$358.93
400-2-10	CONC CLASS II, APPROACH SLABS	42.96 CY	\$1,590.18	\$68,314.13
415-1-9	REINF STEEL- APPROACH SLABS	7,518.00 LB	\$1.53	\$11,502.54

# **Bridge X-Items**

	_			
Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
460-72-1	THRIE BEAM PANEL RETROFIT, CONCRETE HAND	528.33 LF	\$230.67	\$121,869.88
	Bridge NB2.13 Total			\$1,631,812.13

# Bridge SB2.13

AND REMOVE OUTSIDE TRAIL PORTION

Description	Value
Estimate Type	SF Estimate
Primary Estimate	YES
Length (LF)	528.33
Width (LF)	18.85
Туре	Overpass Widening
Cost Factor	1.00
Structure No.	140081
Removal of Existing Structures area	15.14
Default Cost per SF	\$140.00
Factored Cost per SF	\$140.00
Final Cost per SF	\$160.05
Basic Bridge Cost	\$1,394,262.87
Description	SB OVER PITHLACHASCOTEE RIVER - INSIDE WIDENING

**Bridge Pay Items** 

<b>_</b> ago . a <sub>f</sub>				
Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
110-3	REMOVAL OF EXISTING STRUCTURES/BRIDGES	15.14 SF	\$118.07	\$1,787.58
400-2-10	CONC CLASS II, APPROACH SLABS	41.89 CY	\$1,590.18	\$66,612.64
415-1-9	REINF STEEL- APPROACH SLABS	7,330.75 LB	\$1.53	\$11,216.05

# **Bridge X-Items**

Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
460-72-1	THRIE BEAM PANEL RETROFIT, CONCRETE HAND	528.33 LF	\$230.67	\$121,869.88

**Bridge SB2.13 Total** \$1,595,749.02

# Bridge NB2.14

Description		Value
Estimate Type		SF Estimate
Primary Estimate		YES
Length (LF)		177.08
Width (LF)		19.83
Туре		Overpass Widening
Cost Factor		1.00
Structure No.		140082
Removal of Existing Structures area		3.54
Default Cost per SF		\$140.00
Factored Cost per SF		\$140.00
Final Cost per SF		\$172.59
Basic Bridge Cost		\$491,609.50
Description	NB OVER SR 52 - INSIDE WIDENING	

# **Bridge Pay Items**

Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
110-3	REMOVAL OF EXISTING STRUCTURES/BRIDGES	3.54 SF	\$118.07	\$417.97
400-2-10	CONC CLASS II, APPROACH SLABS	44.07 CY	\$1,590.18	\$70,079.23
415-1-9	REINF STEEL- APPROACH SLABS	7,712.25 LB	\$1.53	\$11,799.74

## **Bridge X-Items**

Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
460-71-4	METAL TRAF RAILING, RECTANGULAR TUBE RET	177.08 LF	\$183.95	\$32,573.87
	Bridge NB2.14 Total			\$606,480.31

# Bridge SB2.14

Description	Value
Estimate Type	SF Estimate
Primary Estimate	YES
Length (LF)	177.08
Width (LF)	19.83
Туре	Overpass Widening
Cost Factor	1.00
Structure No.	140083
Removal of Existing Structures area	3.54
Default Cost per SF	\$140.00
Factored Cost per SF	\$140.00
Final Cost per SF	\$172.59
Basic Bridge Cost	\$491,609.50

Description SB OVER SR 52 - INSIDE WIDENING

#### **Bridge Pay Items**

bridge ray items					
Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>	
110-3	REMOVAL OF EXISTING STRUCTURES/BRIDGES	3.54 SF	\$118.07	\$417.97	
400-2-10	CONC CLASS II, APPROACH SLABS	44.07 CY	\$1,590.18	\$70,079.23	
415-1-9	REINF STEEL- APPROACH SLABS	7,712.25 LB	\$1.53	\$11,799.74	
Bridge X-Items					

bridge A-items					
Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>	
460-71-4	METAL TRAF RAILING, RECTANGULAR TUBE RET	177.08 LF	\$183.95	\$32,573.87	
	Bridge SB2.14 Total			\$606,480.31	
	Bridges Component Total			\$9,381,555.16	

**Sequence 3 Total** \$75,580,304.07

Sequence: 4 MIS - Miscellaneous Construction

Net Length:

0.000 MI 0 LF

**Description: ITS** 

**MISCELLANEOUS COMPONENT** 

MIOCELEAREOUG

**EX-Items** 

Pay itemDescriptionQuantity UnitUnit PriceExtended AmountITSITS, MOC, 4% OF SUBTOTAL1.00 1\$8,616,233.00\$8,616,233.00

Miscellaneous Component Total \$8,616,233.00

**Sequence 4 Total** \$8,616,233.00

**Description:** Landscape

LANDSCAPING COMPONENT

**User Input Data** 

 Description
 Value

 Lump Sum
 21,540,583.00

 Cost %
 0.00

 Component Detail
 N

**Landscaping Component Total** 

\$21,540,583.00

**Sequence 5 Total** \$21,540,583.00

Sequence: 6 MIS - Miscellaneous Construction

Net Length:

0.000 MI 0 LF

**Description:** 25% Unknown

**MISCELLANEOUS COMPONENT** 

**EX-Items** 

 
 Pay item
 Description
 Quantity Unit
 Unit Price
 Extended Amount

 25% UNKNOWN
 FOR INFLATION
 1.00 1
 \$64,628,853.00
 \$64,628,853.00

Miscellaneous Component Total \$64,628,853.00

**Sequence 6 Total** \$64,628,853.00

Date: 2/12/2025 8:38:11 AM

# FDOT Long Range Estimating System - Production R3: Project Details by Sequence Report

**Project:** 448068-1-22-01 **Letting Date:** 01/2099

Description: PD&E WIDEN SUNCOAST PKWY(SR589) - S OF VAN DYKE RD TO SR52 (MP13-29)

District: 08 County: 97 TURNPIKE Market Area: 99 Units: English

Contract Class: 3 Lump Sum Project: N Design/Build: N Project Length: 15.979 MI

Project Manager: SHARMA

Version 23 Project Grand Total \$330,096,486.14

Description: SR 54 to N of SR 52 (4 TO 6 LANES)

Project Se	equences Subtotal		\$272,683,046.40
102-1	Maintenance of Traffic	10.00 %	\$27,268,304.64
101-1	Mobilization	10.00 %	\$29,995,135.10
Project Se	equences Total		\$329,946,486.14
Project Un	nknowns	0.00 %	\$0.00
Design/Bu	uild	0.00 %	\$0.00
N. Bul	2		

**Non-Bid Components:** 

Pay itemDescriptionQuantity UnitUnit PriceExtended Amount999-25INITIAL CONTINGENCY AMOUNT<br/>(DO NOT BID)LS\$150,000.00\$150,000.00Project Non-Bid Subtotal\$150,000.00

Version 23 Project Grand Total \$330,096,486.14

Date: 2/12/2025 9:32:02 AM

# FDOT Long Range Estimating System - Production R3: Project Details by Sequence Report

**Project:** 448068-1-22-01 **Letting Date:** 01/2099

Description: PD&E WIDEN SUNCOAST PKWY(SR589) - S OF VAN DYKE RD TO SR52 (MP13-29)

District: 08 County: 97 TURNPIKE Market Area: 99 Units: English

Contract Class: 3 Lump Sum Project: N Design/Build: N Project Length: 15.979 MI

Project Manager: SHARMA

Version 15 Project Grand Total \$16,485,839.38

Description: Van Dyke Road

Sequence: 1 WUR - Widen/Resurface, Undivided, Rural

Net Length:

0.142 MI
750 LF

Description: Ramp A - SB on two lane section

Existing Outside Shoulder Cross Slope L/R

#### **EARTHWORK COMPONENT**

#### **User Input Data**

Description	Value
Standard Clearing and Grubbing Limits L/R	20.00 / 10.00
Incidental Clearing and Grubbing Area	0.00
Alignment Number	1
Distance	0.097
Top of Structural Course For Begin Section	102.00
Top of Structural Course For End Section	102.00
Horizontal Elevation For Begin Section	100.00
Horizontal Elevation For End Section	100.00
Existing Front Slope L/R	6 to 1 / 6 to 1

Front Slope L/R \$6\$ to 1 / 6\$ to 1 Outside Shoulder Cross Slope L/R \$6.00 % / 6.00 % Roadway Cross Slope L/R \$2.00 % / 2.00 %

#### Pay Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
110-1-1	CLEARING & GRUBBING	0.52 AC	\$69,069.09	\$35,915.93

Earthwork Component Total \$35,915.93

## **ROADWAY COMPONENT**

#### **User Input Data**

Description	Value
Number of Lanes	2
Existing Roadway Pavement Width L/R	12.00 / 12.00
Structural Spread Rate	165
Friction Course Spread Rate	80
Widened Outside Pavement Width L/R	0.00 / 0.00
Widened Structural Spread Rate	275
Widened Friction Course Spread Rate	165

#### Pay Items

6.00 % / 6.00 %

Pay item	Description	<b>Quantity Unit</b>	Unit Price Ex	tended Amount
160-4	TYPE B STABILIZATION	999.68 SY	\$21.48	\$21,473.13
327-70-5	MILLING EXIST ASPH PAVT, 2" AVG DEPTH	1,999.36 SY	\$7.52	\$15,035.19
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	164.95 TN	\$188.86	\$31,152.46
337-7-83	ASPH CONC FC,TRAFFIC C,FC- 12.5,PG 76-22	79.97 TN	\$206.53	\$16,516.20

## **Pavement Marking Subcomponent**

Description	Value
Include Thermo/Tape/Other	N
Pavement Type	Asphalt
Solid Stripe No. of Paint Applications	2
Solid Stripe No. of Stripes	2
Skip Stripe No. of Paint Applications	2
Skip Stripe No. of Stripes	1

# Pay Items

Pay item	Description	<b>Quantity Unit</b>	Unit Price E	xtended Amount
706-1-3	RAISED PAVMT MARK, TYPE B	19.00 EA	\$4.96	\$94.24
710-11-101	PAINTED PAVT MARK,STD,WHITE,SOLID,6"	0.57 GM	\$1,448.71	\$825.76
710-11-231	PAINTED PAVT MARK,STD,YELLOW,SKIP,6"	0.28 GM	\$693.74	\$194.25

# **Peripherals Subcomponent**

Description	Value
Off Road Bike Path(s)	0
Off Road Bike Path Width L/R	0.00 / 0.00
Bike Path Structural Spread Rate	0
Noise Barrier Wall Length	0.00
Noise Barrier Wall Begin Height	0.00
Noise Barrier Wall End Height	0.00

Roadway Component Total \$85,291.23

## SHOULDER COMPONENT

# **User Input Data**

Description	Value
Existing Total Outside Shoulder Width L/R	6.00 / 6.00
New Total Outside Shoulder Width L/R	6.00 / 6.00
Total Outside Shoulder Perf. Turf Width L/R	4.00 / 2.00
Existing Paved Outside Shoulder Width L/R	0.00 / 0.00
New Paved Outside Shoulder Width L/R	2.00 / 4.00
Structural Spread Rate	110
Friction Course Spread Rate	80
Total Width (T) / 8" Overlap (O)	Т
Rumble Strips �No. of Sides	0

Pay item	Description	<b>Quantity Unit</b>	Unit Price Ex	tended Amount
285-704	OPTIONAL BASE,BASE GROUP 04	554.82 SY	\$42.51	\$23,585.40
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	27.49 TN	\$188.86	\$5,191.76
337-7-83	ASPH CONC FC,TRAFFIC C,FC- 12.5.PG 76-22	19.99 TN	\$206.53	\$4,128.53

570-1-1 PERFORMANCE TURF 499.84 SY \$6.88 \$3,438.90

Erosion	Control

Pay Items
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Pay item	Description	Quantity Unit	Unit Price Ex	tended Amount
104-10-3	SEDIMENT BARRIER	1,724.45 LF	\$3.32	\$5,725.17
104-11	FLOATING TURBIDITY BARRIER	14.20 LF	\$15.96	\$226.63
104-12	STAKED TURBIDITY BARRIER- NYL REINF PVC	14.20 LF	\$19.18	\$272.36
104-15	SOIL TRACKING PREVENTION DEVICE	1.00 EA	\$4,709.30	\$4,709.30
104-18	INLET PROTECTION SYSTEM	1.00 EA	\$192.13	\$192.13
107-1	LITTER REMOVAL	0.34 AC	\$57.63	\$19.59
107-2	MOWING	0.34 AC	\$54.82	\$18.64
	Shoulder Component Total			\$47,508.41

#### **DRAINAGE COMPONENT**

Pay Items				
Pay item	Description	<b>Quantity Unit</b>	Unit Price Ex	tended Amount
430-174-124	PIPE CULV, OPT MATL, ROUND,24"SD	24.00 LF	\$278.89	\$6,693.36
430-175-136	PIPE CULV, OPT MATL, ROUND, 36"S/CD	16.00 LF	\$310.89	\$4,974.24
430-984-129	MITERED END SECT, OPTIONAL RD, 24" SD	2.00 EA	\$3,624.19	\$7,248.38
570-1-1	PERFORMANCE TURF	57.37 SY	\$6.88	\$394.71
	Drainage Component Total			\$19,310.69

#### **SIGNING COMPONENT**

Pay Items				
Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	Extended Amount
700-1-111	SINGLE COL GRND SIGN AS, F&I GM, <12 SF	1.00 EA	\$543.45	\$543.45
700-1-112	SINGLE COL GRND SIGN AS, F&I GM, 12-20	3.00 EA	\$1,918.21	\$5,754.63
700-1-500	SINGLE COL GRND SIGN AS, RELOCATE	1.00 EA	\$348.10	\$348.10
700-1-600	SINGLE COL GRND SIGN AS, REMOVE	3.00 EA	\$58.36	\$175.08
700-2-113	MULTI- COLUMN SIGN, F&I GM, 20.1-30 SF	1.00 EA	\$6,727.35	\$6,727.35
700-2-600	MULTI- COLUMN GROUND SIGN, REMOVE	1.00 EA	\$1,238.78	\$1,238.78
	Signing Component Total			\$14,787.39

## LIGHTING COMPONENT

**Rural Lighting Subcomponent** 

DescriptionValueMultiplier (Number of Poles)6

Pay Items

Pay item Description Quantity Unit Unit Price Extended Amount

Sequence 1	Total			\$369,514.29
	Lighting Component Total			\$166,700.64
	Subcomponent Total			\$166,700.64
715-500-1	POLE CABLE DIST SYS, CONVENTIONAL	6.00 EA	\$1,175.12	\$7,050.72
715-61-442	LIGHT POLE CMPLT,STD,F&I, 45'MH,12'ARM L	6.00 EA	\$16,000.00	\$96,000.00
715-1-13	LIGHTING CONDUCTORS, F&I, INSUL, NO.4-2	3,600.00 LF	\$6.55	\$23,580.00
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24"	6.00 EA	\$1,708.32	\$10,249.92
630-2-11	CONDUIT, F& I, OPEN TRENCH	1,200.00 LF	\$24.85	\$29,820.00
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Sequence: 2 WUR - Widen/Resurface, Undivided, Rural

Net Length:

0.218 MI
1,150 LF

Description: Ramp A - SB on one lane section

#### **EARTHWORK COMPONENT**

#### **User Input Data**

Description	Value
Standard Clearing and Grubbing Limits L/R	20.00 / 10.00
Incidental Clearing and Grubbing Area	0.00
Alignment Number	1
Distance	0.218
Top of Structural Course For Begin Section	102.00
Top of Structural Course For End Section	102.00
Horizontal Elevation For Begin Section	100.00
Horizontal Elevation For End Section	100.00
Existing Front Slope L/R	6 to 1 / 6 to 1
Existing Outside Shoulder Cross Slope L/R	6.00 % / 6.00 %
Front Slope L/R	6 to 1 / 6 to 1
Outside Shoulder Cross Slope L/R	6.00 % / 6.00 %
Roadway Cross Slope L/R	2.00 % / 2.00 %

## Pay Items

Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
110-1-1	CLEARING & GRUBBING	0.79 AC	\$69,069.09	\$54,564.58
	Earthwork Component Total			\$54,564.58

## **ROADWAY COMPONENT**

## **User Input Data**

Description	Value
Number of Lanes	1
Existing Roadway Pavement Width L/R	7.50 / 7.50
Structural Spread Rate	165
Friction Course Spread Rate	80
Widened Outside Pavement Width L/R	0.00 / 0.00
Widened Structural Spread Rate	275
Widened Friction Course Spread Rate	165

## Pay Items

Pay item	Description	<b>Quantity Unit</b>	Unit Price Ex	tended Amount
160-4	TYPE B STABILIZATION	1,533.31 SY	\$21.48	\$32,935.50
327-70-5	MILLING EXIST ASPH PAVT, 2" AVG DEPTH	1,916.64 SY	\$7.52	\$14,413.13
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	158.12 TN	\$188.86	\$29,862.54
337-7-83	ASPH CONC FC,TRAFFIC C,FC- 12.5,PG 76-22	76.67 TN	\$206.53	\$15,834.66

## **Pavement Marking Subcomponent**

Description	Value
Include Thermo/Tape/Other	N
Pavement Type	Asphalt
Solid Stripe No. of Paint Applications	2
Solid Stripe No. of Stripes	2
Skip Stripe No. of Paint Applications	2
Skip Stripe No. of Stripes	0

Pav nems	Pav	Items
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Pay item	Description	Quantity Unit	Unit Price I	Extended Amount
710-11-101	PAINTED PAVT MARK,STD,WHITE,SOLID,6"	0.87 GM	\$1,448.71	\$1,260.38

# **Peripherals Subcomponent**

Description	Value
Off Road Bike Path(s)	0
Off Road Bike Path Width L/R	0.00 / 0.00
Bike Path Structural Spread Rate	0
Noise Barrier Wall Length	0.00
Noise Barrier Wall Begin Height	0.00
Noise Barrier Wall End Height	0.00

Roadway Component Total \$94,306.21

#### SHOULDER COMPONENT

# **User Input Data**

Description	Value
Existing Total Outside Shoulder Width L/R	6.00 / 6.00
New Total Outside Shoulder Width L/R	6.00 / 6.00
Total Outside Shoulder Perf. Turf Width L/R	4.00 / 2.00
Existing Paved Outside Shoulder Width L/R	0.00 / 0.00
New Paved Outside Shoulder Width L/R	2.00 / 4.00
Structural Spread Rate	110
Friction Course Spread Rate	80
Total Width (T) / 8" Overlap (O)	T
Rumble Strips ï; ½No. of Sides	0

# Pay Items

Pay item	Description	<b>Quantity Unit</b>	Unit Price Ex	tended Amount
285-704	OPTIONAL BASE, BASE GROUP 04	850.99 SY	\$42.51	\$36,175.58
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	42.17 TN	\$188.86	\$7,964.23
337-7-83	ASPH CONC FC,TRAFFIC C,FC- 12.5,PG 76-22	30.67 TN	\$206.53	\$6,334.28
570-1-1	PERFORMANCE TURF	766.66 SY	\$6.88	\$5,274.62

## **Erosion Control**

# Pay Items

Pay item	Description	<b>Quantity Unit</b>	Unit Price Ext	ended Amount
104-10-3	SEDIMENT BARRIER	2,644.96 LF	\$3.32	\$8,781.27
104-11	FLOATING TURBIDITY BARRIER	21.78 LF	\$15.96	\$347.61
104-12	STAKED TURBIDITY BARRIER- NYL REINF PVC	21.78 LF	\$19.18	\$417.74
104-15	SOIL TRACKING PREVENTION DEVICE	1.00 EA	\$4,709.30	\$4,709.30
104-18	INLET PROTECTION SYSTEM	1.00 EA	\$192.13	\$192.13
107-1	LITTER REMOVAL	0.53 AC	\$57.63	\$30.54
107-2	MOWING	0.53 AC	\$54.82	\$29.05
	Shoulder Component Total			\$70,256.35

#### **DRAINAGE COMPONENT**

Pay Items				
Pay item	Description	<b>Quantity Unit</b>	Unit Price Ex	tended Amount
430-174-124	PIPE CULV, OPT MATL, ROUND,24"SD	32.00 LF	\$278.89	\$8,924.48
430-175-136	PIPE CULV, OPT MATL, ROUND, 36"S/CD	16.00 LF	\$310.89	\$4,974.24
430-984-129	MITERED END SECT, OPTIONAL RD, 24" SD	3.00 EA	\$3,624.19	\$10,872.57
570-1-1	PERFORMANCE TURF	87.99 SY	\$6.88	\$605.37
	Drainage Component Total			\$25,376.66

#### **SIGNING COMPONENT**

Pay Items				
Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	Extended Amount
700-1-111	SINGLE COL GRND SIGN AS, F&I GM, <12 SF	1.00 EA	\$543.45	\$543.45
700-1-112	SINGLE COL GRND SIGN AS, F&I GM, 12-20	5.00 EA	\$1,918.21	\$9,591.05
700-1-500	SINGLE COL GRND SIGN AS, RELOCATE	1.00 EA	\$348.10	\$348.10
700-1-600	SINGLE COL GRND SIGN AS, REMOVE	5.00 EA	\$58.36	\$291.80
700-2-113	MULTI- COLUMN SIGN, F&I GM, 20.1-30 SF	1.00 EA	\$6,727.35	\$6,727.35
700-2-600	MULTI- COLUMN GROUND SIGN, REMOVE	1.00 EA	\$1,238.78	\$1,238.78
	Signing Component Total			\$18,740.53

## LIGHTING COMPONENT

Rural Lighting	g Subcomponent			
Description				Value
Multiplier (Nun	nber of Poles)			3
Pay Items				
Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
630-2-11	CONDUIT, F& I, OPEN TRENCH	600.00 LF	\$24.85	\$14,910.00
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24"	3.00 EA	\$1,708.32	\$5,124.96
715-1-13	LIGHTING CONDUCTORS, F&I, INSUL, NO.4-2	1,800.00 LF	\$6.55	\$11,790.00
715-61-442	LIGHT POLE CMPLT,STD,F&I, 45'MH,12'ARM L	3.00 EA	\$16,000.00	\$48,000.00
715-500-1	POLE CABLE DIST SYS, CONVENTIONAL	3.00 EA	\$1,175.12	\$3,525.36
	Subcomponent Total			\$83,350.32
	Lighting Component Total			\$83,350.32
Sequence 21	<b>Fotal</b>			\$346,594.65

Sequence: 3 WUR - Widen/Resurface, Undivided, Rural

Net Length:

0.114 MI
600 LF

Description: Ramp B - NB off one lane section

Special M&R Conditions:

#### **EARTHWORK COMPONENT**

#### **User Input Data**

<b>Description</b> Standard Clearing and Grubbing Limits L/R Incidental Clearing and Grubbing Area	<b>Value</b> 0.00 / 30.00 0.00
Alignment Number	1
Distance	0.113
Top of Structural Course For Begin Section	102.00
Top of Structural Course For End Section	102.00
Horizontal Elevation For Begin Section	100.00
Horizontal Elevation For End Section	100.00
Existing Front Slope L/R	6 to 1 / 6 to 1
Existing Outside Shoulder Cross Slope L/R	6.00 % / 6.00 %
Front Slope L/R	6 to 1 / 6 to 1
Outside Shoulder Cross Slope L/R	6.00 % / 6.00 %
Roadway Cross Slope L/R	2.00 % / 2.00 %

#### Pay Items

Pay item	Description	<b>Quantity Unit</b>	Unit Price	Extended Amount
110-1-1	CLEARING & GRUBBING	0.41 AC	\$69,069.09	\$28,318.33
	Earthwork Component Total			\$28,318.33

#### **ROADWAY COMPONENT**

## **User Input Data**

Description	Value
Number of Lanes	1
Existing Roadway Pavement Width L/R	7.50 / 7.50
Structural Spread Rate	165
Friction Course Spread Rate	80
Widened Outside Pavement Width L/R	0.00 / 0.00
Widened Structural Spread Rate	275
Widened Friction Course Spread Rate	165

#### Pay Items

Pay item	Description	<b>Quantity Unit</b>	Unit Price	<b>Extended Amount</b>
160-4	TYPE B STABILIZATION	799.74 SY	\$21.48	\$17,178.42
327-70-5	MILLING EXIST ASPH PAVT, 2" AVG DEPTH	999.68 SY	\$7.52	\$7,517.59
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	82.47 TN	\$188.86	\$15,575.28
337-7-83	ASPH CONC FC,TRAFFIC C,FC- 12.5,PG 76-22	39.99 TN	\$206.53	\$8,259.13

#### **Pavement Marking Subcomponent**

Description	Value
Include Thermo/Tape/Other	N
Pavement Type	Asphalt
Solid Stripe No. of Paint Applications	2
Solid Stripe No. of Stripes	2

Skip Stripe No. of Paint Applications 2
Skip Stripe No. of Stripes 0

Pav	Items

Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
710-11-101	PAINTED PAVT MARK,STD,WHITE,SOLID,6"	0.45 GM	\$1,448.71	\$651.92
	Roadway Component Total			\$49,182.34

#### SHOULDER COMPONENT

# **User Input Data**

Description	Value
Existing Total Outside Shoulder Width L/R	6.00 / 6.00
New Total Outside Shoulder Width L/R	6.00 / 6.00
Total Outside Shoulder Perf. Turf Width L/R	4.00 / 2.00
Existing Paved Outside Shoulder Width L/R	0.00 / 0.00
New Paved Outside Shoulder Width L/R	2.00 / 4.00
Structural Spread Rate	110
Friction Course Spread Rate	80
Total Width (T) / 8" Overlap (O)	Т
Rumble Strips �No. of Sides	0

# Pay Items

Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
285-704	OPTIONAL BASE,BASE GROUP 04	443.86 SY	\$42.51	\$18,868.49
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	21.99 TN	\$188.86	\$4,153.03
337-7-83	ASPH CONC FC,TRAFFIC C,FC- 12.5,PG 76-22	15.99 TN	\$206.53	\$3,302.41
570-1-1	PERFORMANCE TURF	399.87 SY	\$6.88	\$2,751.11

#### **Erosion Control**

### Pay Items

. uy .too				
Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
104-10-3	SEDIMENT BARRIER	1,379.56 LF	\$3.32	\$4,580.14
104-11	FLOATING TURBIDITY BARRIER	11.36 LF	\$15.96	\$181.31
104-12	STAKED TURBIDITY BARRIER- NYL REINF PVC	11.36 LF	\$19.18	\$217.88
104-15	SOIL TRACKING PREVENTION DEVICE	1.00 EA	\$4,709.30	\$4,709.30
104-18	INLET PROTECTION SYSTEM	1.00 EA	\$192.13	\$192.13
107-1	LITTER REMOVAL	0.27 AC	\$57.63	\$15.56
107-2	MOWING	0.27 AC	\$54.82	\$14.80
	Shoulder Component Total			\$38,986.16

## **DRAINAGE COMPONENT**

Pay Items				
Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
430-174-124	PIPE CULV, OPT MATL, ROUND,24"SD	24.00 LF	\$278.89	\$6,693.36
430-175-136	PIPE CULV, OPT MATL, ROUND, 36"S/CD	8.00 LF	\$310.89	\$2,487.12

430-984-129	RD, 24" SD	2.00 EA	\$3,624.19	\$7,248.38
570-1-1	PERFORMANCE TURF	45.89 SY	\$6.88	\$315.72

#### **Retention Basin 1**

Description	Value
Size	.5 AC
Multiplier	1
Depth	6.00

Description Expand exist pond

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Pay items				
Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
110-1-1	CLEARING & GRUBBING	0.50 AC	\$27,000.00	\$13,500.00
120-1	REGULAR EXCAVATION	4,840.00 CY	\$104.30	\$504,812.00
425-1-541	INLETS, DT BOT, TYPE D, <10'	1.00 EA	\$11,392.37	\$11,392.37
425-2-71	MANHOLES, J-7, <10'	1.00 EA	\$12,151.00	\$12,151.00
430-175-142	PIPE CULV, OPT MATL, ROUND, 42"S/CD	56.00 LF	\$654.39	\$36,645.84
430-175-160	PIPE CULV, OPT MATL, ROUND, 60"S/CD	200.00 LF	\$612.49	\$122,498.00
550-10-220	FENCING, TYPE B, 5.1-6.0', STANDARD	600.00 LF	\$81.27	\$48,762.00
550-60-234	FENCE GATE,TYP B,SLIDE/CANT,18.1-20'OPEN	1.00 EA	\$5,256.99	\$5,256.99
570-1-1	PERFORMANCE TURF	2,420.00 SY	\$18.06	\$43,705.20
	Drainage Component Total			\$815,467.98

#### **SIGNING COMPONENT**

Pay Items				
Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
700-1-111	SINGLE COL GRND SIGN AS, F&I GM, <12 SF	1.00 EA	\$543.45	\$543.45
700-1-112	SINGLE COL GRND SIGN AS, F&I GM, 12-20	3.00 EA	\$1,918.21	\$5,754.63
700-1-500	SINGLE COL GRND SIGN AS, RELOCATE	1.00 EA	\$348.10	\$348.10
700-1-600	SINGLE COL GRND SIGN AS, REMOVE	3.00 EA	\$58.36	\$175.08
700-2-113	MULTI- COLUMN SIGN, F&I GM, 20.1-30 SF	1.00 EA	\$6,727.35	\$6,727.35
700-2-600	MULTI- COLUMN GROUND SIGN, REMOVE	1.00 EA	\$1,238.78	\$1,238.78
	Signing Component Total			\$14,787.39

## LIGHTING COMPONENT

# **Rural Lighting Subcomponent**

Description	Value
Multiplier (Number of Poles)	3

Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
630-2-11	CONDUIT, F& I, OPEN TRENCH	600.00 LF	\$24.85	\$14,910.00
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24"	3.00 EA	\$1,708.32	\$5,124.96

Sequence 3 Total				\$1,030,092.52
	Lighting Component Total			\$83,350.32
	Subcomponent Total			\$83,350.32
715-500-1	POLE CABLE DIST SYS, CONVENTIONAL	3.00 EA	\$1,175.12	\$3,525.36
715-61-442	LIGHT POLE CMPLT,STD,F&I, 45'MH,12'ARM L	3.00 EA	\$16,000.00	\$48,000.00
715-1-13	LIGHTING CONDUCTORS, F&I, INSUL, NO.4-2	1,800.00 LF	\$6.55	\$11,790.00

Sequence: 4 WUR - Widen/Resurface, Undivided, Rural

Net Length:

0.161 MI
850 LF

Description: Ramp B - NB off three lane section

**Special** M&R and Widening

#### **EARTHWORK COMPONENT**

#### **User Input Data**

Description	Value
Standard Clearing and Grubbing Limits L/R	30.00 / 20.00
Incidental Clearing and Grubbing Area	0.00
Alignment Number	1
Distance	0.160
Top of Structural Course For Begin Section	102.00
Top of Structural Course For End Section	102.00
Horizontal Elevation For Begin Section	100.00
Horizontal Elevation For End Section	100.00
Existing Front Slope L/R	6 to 1 / 6 to 1
Existing Outside Shoulder Cross Slope L/R	6.00 % / 6.00 %
Front Slope L/R	6 to 1 / 6 to 1
Outside Shoulder Cross Slope L/R	6.00 % / 6.00 %
Roadway Cross Slope L/R	2.00 % / 2.00 %

## Pay Items

Pay item	Description	<b>Quantity Unit</b>	Unit Price	Extended Amount
110-1-1	CLEARING & GRUBBING	0.98 AC	\$69,069.09	\$67,687.71
120-2-2	BORROW EXCAVATION, TRUCK MEASURE	280.66 CY	\$53.86	\$15,116.35
	Earthwork Component Total			\$82,804.06

#### **ROADWAY COMPONENT**

## **User Input Data**

Description	Value
Number of Lanes	3
Existing Roadway Pavement Width L/R	7.50 / 7.50
Structural Spread Rate	165
Friction Course Spread Rate	80
Widened Outside Pavement Width L/R	21.00 / 0.00
Widened Structural Spread Rate	275
Widened Friction Course Spread Rate	165

,				
Pay item	Description	<b>Quantity Unit</b>	Unit Price I	Extended Amount
160-4	TYPE B STABILIZATION	4,250.40 SY	\$21.48	\$91,298.59
285-709	OPTIONAL BASE,BASE GROUP 09	2,014.69 SY	\$58.67	\$118,201.86
327-70-5	MILLING EXIST ASPH PAVT, 2" AVG DEPTH	1,416.80 SY	\$7.52	\$10,654.34
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	116.89 TN	\$188.86	\$22,075.85
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	272.73 TN	\$188.86	\$51,507.79
337-7-83	ASPH CONC FC,TRAFFIC C,FC- 12.5,PG 76-22	56.67 TN	\$206.53	\$11,704.06
337-7-83	ASPH CONC FC,TRAFFIC C,FC- 12.5,PG 76-22	163.64 TN	\$206.53	\$33,796.57

## **Pavement Marking Subcomponent**

Description	Value
Include Thermo/Tape/Other	N
Pavement Type	Asphalt
Solid Stripe No. of Paint Applications	2
Solid Stripe No. of Stripes	2
Skip Stripe No. of Paint Applications	2
Skip Stripe No. of Stripes	2

# Pay Items

Pay item	Description	<b>Quantity Unit</b>	Unit Price Ext	ended Amount
706-1-3	RAISED PAVMT MARK, TYPE B	87.00 EA	\$4.96	\$431.52
710-11-101	PAINTED PAVT MARK,STD,WHITE,SOLID,6"	0.64 GM	\$1,448.71	\$927.17
710-11-231	PAINTED PAVT MARK.STD.YELLOW.SKIP.6"	0.64 GM	\$693.74	\$443.99

## **Peripherals Subcomponent**

Description	Value
Off Road Bike Path(s)	0
Off Road Bike Path Width L/R	0.00 / 0.00
Bike Path Structural Spread Rate	0
Noise Barrier Wall Length	0.00
Noise Barrier Wall Begin Height	0.00
Noise Barrier Wall End Height	0.00

Roadway Component Total

## SHOULDER COMPONENT

## **User Input Data**

Description	Value
Existing Total Outside Shoulder Width L/R	8.00 / 10.00
New Total Outside Shoulder Width L/R	12.00 / 12.00
Total Outside Shoulder Perf. Turf Width L/R	2.00 / 2.00
Existing Paved Outside Shoulder Width L/R	4.00 / 8.00
New Paved Outside Shoulder Width L/R	10.00 / 10.00
Structural Spread Rate	110
Friction Course Spread Rate	80
Total Width (T) / 8" Overlap (O)	Т
Rumble Strips �No. of Sides	0

## Pay Items

Pay item	Description	<b>Quantity Unit</b>	Unit Price Ex	tended Amount
285-704	OPTIONAL BASE,BASE GROUP 04	1,951.41 SY	\$42.51	\$82,954.44
327-70-1	MILLING EXIST ASPH PAVT, 1" AVG DEPTH	1,133.44 SY	\$4.30	\$4,873.79
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	103.90 TN	\$188.86	\$19,622.55
337-7-83	ASPH CONC FC,TRAFFIC C,FC- 12.5,PG 76-22	75.56 TN	\$206.53	\$15,605.41
570-1-1	PERFORMANCE TURF	377.81 SY	\$6.88	\$2,599.33

# **Erosion Control**

Pay Items

Pay item Description Quantity Unit Unit Price Extended Amount

\$341,041.74

			•	
104-10-3	SEDIMENT BARRIER	1,955.18 LF	\$3.32	\$6,491.20
104-11	FLOATING TURBIDITY BARRIER	16.10 LF	\$15.96	\$256.96
104-12	STAKED TURBIDITY BARRIER- NYL REINF PVC	16.10 LF	\$19.18	\$308.80
104-15	SOIL TRACKING PREVENTION DEVICE	1.00 EA	\$4,709.30	\$4,709.30
104-18	INLET PROTECTION SYSTEM	1.00 EA	\$192.13	\$192.13
107-1	LITTER REMOVAL	0.39 AC	\$57.63	\$22.48
107-2	MOWING	0.39 AC	\$54.82	\$21.38
	Shoulder Component Total			\$137,657.77

#### **DRAINAGE COMPONENT**

Pay Items				
Pay item	Description	<b>Quantity Unit</b>	Unit Price Ex	tended Amount
430-174-124	PIPE CULV, OPT MATL, ROUND,24"SD	32.00 LF	\$278.89	\$8,924.48
430-175-136	PIPE CULV, OPT MATL, ROUND, 36"S/CD	16.00 LF	\$310.89	\$4,974.24
430-984-129	MITERED END SECT, OPTIONAL RD, 24" SD	2.00 EA	\$3,624.19	\$7,248.38
570-1-1	PERFORMANCE TURF	65.04 SY	\$6.88	\$447.48
	Drainage Component Total			\$21,594.58

#### **SIGNING COMPONENT**

Pay Items				
Pay item	Description	<b>Quantity Unit</b>	Unit Price I	Extended Amount
700-1-111	SINGLE COL GRND SIGN AS, F&I GM, <12 SF	1.00 EA	\$543.45	\$543.45
700-1-112	SINGLE COL GRND SIGN AS, F&I GM, 12-20	4.00 EA	\$1,918.21	\$7,672.84
700-1-500	SINGLE COL GRND SIGN AS, RELOCATE	1.00 EA	\$348.10	\$348.10
700-1-600	SINGLE COL GRND SIGN AS, REMOVE	4.00 EA	\$58.36	\$233.44
700-2-113	MULTI- COLUMN SIGN, F&I GM, 20.1-30 SF	1.00 EA	\$6,727.35	\$6,727.35
700-2-600	MULTI- COLUMN GROUND SIGN, REMOVE	1.00 EA	\$1,238.78	\$1,238.78
	Signing Component Total			\$16,763.96

# LIGHTING COMPONENT

# **Rural Lighting Subcomponent**

Description				Value
Multiplier (Nun	nber of Poles)	4		
Pay Items				
Pay item	Description	<b>Quantity Unit</b>	Unit Price	<b>Extended Amount</b>
630-2-11	CONDUIT, F& I, OPEN TRENCH	800.00 LF	\$24.85	\$19,880.00
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24"	4.00 EA	\$1,708.32	\$6,833.28
715-1-13	LIGHTING CONDUCTORS, F&I, INSUL, NO.4-2	2,400.00 LF	\$6.55	\$15,720.00

715-61-442	LIGHT POLE CMPLT,STD,F&I, 45'MH,12'ARM L	4.00 EA	\$16,000.00	\$64,000.00
715-500-1	POLE CABLE DIST SYS, CONVENTIONAL	4.00 EA	\$1,175.12	\$4,700.48
	Subcomponent Total			\$111,133.76
	Lighting Component Total			\$111,133.76
Sequence 4	Гotal			\$710,995.87

Sequence: 5 WUR - Widen/Resurface, Undivided, Rural

Net Length:

0.171 MI
900 LF

Description: Ramp C - NB on two lane section

**Special** M&R and Widenign

#### **EARTHWORK COMPONENT**

#### **User Input Data**

Description	Value
Standard Clearing and Grubbing Limits L/R	30.00 / 30.00
Incidental Clearing and Grubbing Area	0.00
Alignment Number	1
Distance	0.170
Top of Structural Course For Begin Section	102.00
Top of Structural Course For End Section	102.00
Horizontal Elevation For Begin Section	100.00
Horizontal Elevation For End Section	100.00
Existing Front Slope L/R	6 to 1 / 6 to 1
Existing Outside Shoulder Cross Slope L/R	6.00 % / 6.00 %
Front Slope L/R	6 to 1 / 6 to 1
Outside Shoulder Cross Slope L/R	6.00 % / 6.00 %
Roadway Cross Slope L/R	2.00 % / 2.00 %

#### Pay Items

Pay item	Description	<b>Quantity Unit</b>	Unit Price	Extended Amount
110-1-1	CLEARING & GRUBBING	1.24 AC	\$69,069.09	\$85,645.67
120-2-2	BORROW EXCAVATION, TRUCK MEASURE	132.31 CY	\$53.86	\$7,126.22
	Earthwork Component Total			\$92,771.89

#### **ROADWAY COMPONENT**

## **User Input Data**

Description	Value
Number of Lanes	2
Existing Roadway Pavement Width L/R	12.00 / 12.00
Structural Spread Rate	165
Friction Course Spread Rate	80
Widened Outside Pavement Width L/R	0.00 / 3.00
Widened Structural Spread Rate	275
Widened Friction Course Spread Rate	165

,				
Pay item	Description	<b>Quantity Unit</b>	Unit Price	Extended Amount
160-4	TYPE B STABILIZATION	2,300.61 SY	\$21.48	\$49,417.10
285-709	OPTIONAL BASE,BASE GROUP 09	333.09 SY	\$58.67	\$19,542.39
327-70-5	MILLING EXIST ASPH PAVT, 2" AVG DEPTH	2,400.64 SY	\$7.52	\$18,052.81
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	198.05 TN	\$188.86	\$37,403.72
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	41.26 TN	\$188.86	\$7,792.36
337-7-83	ASPH CONC FC,TRAFFIC C,FC- 12.5,PG 76-22	96.03 TN	\$206.53	\$19,833.08
337-7-83	ASPH CONC FC,TRAFFIC C,FC- 12.5,PG 76-22	24.76 TN	\$206.53	\$5,113.68

## **Pavement Marking Subcomponent**

Description	Value
Include Thermo/Tape/Other	N
Pavement Type	Asphalt
Solid Stripe No. of Paint Applications	2
Solid Stripe No. of Stripes	2
Skip Stripe No. of Paint Applications	2
Skip Stripe No. of Stripes	1

# Pay Items

Pay item	Description	<b>Quantity Unit</b>	Unit Price Ex	tended Amount
706-1-3	RAISED PAVMT MARK, TYPE B	23.00 EA	\$4.96	\$114.08
710-11-101	PAINTED PAVT MARK,STD,WHITE,SOLID,6"	0.68 GM	\$1,448.71	\$985.12
710-11-231	PAINTED PAVT MARK.STD.YELLOW.SKIP.6"	0.34 GM	\$693.74	\$235.87

# **Peripherals Subcomponent**

Description	Value
Off Road Bike Path(s)	0
Off Road Bike Path Width L/R	0.00 / 0.00
Bike Path Structural Spread Rate	0
Noise Barrier Wall Length	0.00
Noise Barrier Wall Begin Height	0.00
Noise Barrier Wall End Height	0.00

## Pay Items

ray items				
Pay item	Description	Quantity Unit	Unit Price Ex	tended Amount
339-1	MISCELLANEOUS ASPHALT PAVEMENT	15.00 TN	\$492.00	\$7,380.00
536-1-0	GUARDRAIL- ROADWAY, GEN/LS TL-2	450.00 LF	\$31.69	\$14,260.50
	Roadway Component Total			\$180,130.71

# SHOULDER COMPONENT

# **User Input Data**

Description	Value
Existing Total Outside Shoulder Width L/R	6.00 / 12.00
New Total Outside Shoulder Width L/R	8.00 / 12.00
Total Outside Shoulder Perf. Turf Width L/R	4.00 / 2.00
Existing Paved Outside Shoulder Width L/R	4.00 / 12.00
New Paved Outside Shoulder Width L/R	4.00 / 10.00
Structural Spread Rate	110
Friction Course Spread Rate	80
Total Width (T) / 8" Overlap (O)	Т
Rumble Strips �No. of Sides	0

Pay item	Description	<b>Quantity Unit</b>	Unit Price E	xtended Amount
285-704	OPTIONAL BASE,BASE GROUP 04	1,466.39 SY	\$42.51	\$62,336.24
327-70-1	MILLING EXIST ASPH PAVT, 1" AVG DEPTH	1,600.43 SY	\$4.30	\$6,881.85
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	77.02 TN	\$188.86	\$14,546.00

337-7-83	ASPH CONC FC,TRAFFIC C,FC- 12.5,PG 76-22	56.01 TN	\$206.53	\$11,567.75
570-1-1	PERFORMANCE TURF	600.16 SY	\$6.88	\$4,129.10

# **Erosion Control**

Pay	Items
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Pay item         Description         Quantity Unit         Unit Price Extended Amount           104-10-3         SEDIMENT BARRIER         2,070.55 LF         \$3.32         \$6,874.23           104-11         FLOATING TURBIDITY BARRIER         17.05 LF         \$15.96         \$272.12           104-12         STAKED TURBIDITY BARRIER-NYL REINF PVC         17.05 LF         \$19.18         \$327.02           104-15         SOIL TRACKING PREVENTION DEVICE         1.00 EA         \$4,709.30         \$4,709.30           104-18         INLET PROTECTION SYSTEM         1.00 EA         \$192.13         \$192.13           107-1         LITTER REMOVAL         0.41 AC         \$57.63         \$23.63           107-2         MOWING         0.41 AC         \$54.82         \$22.48	i dy itoliis				
104-11       FLOATING TURBIDITY BARRIER       17.05 LF       \$15.96       \$272.12         104-12       STAKED TURBIDITY BARRIER-NYL REINF PVC       17.05 LF       \$19.18       \$327.02         104-15       SOIL TRACKING PREVENTION DEVICE       1.00 EA       \$4,709.30       \$4,709.30         104-18       INLET PROTECTION SYSTEM       1.00 EA       \$192.13       \$192.13         107-1       LITTER REMOVAL       0.41 AC       \$57.63       \$23.63         107-2       MOWING       0.41 AC       \$54.82       \$22.48	Pay item	Description	<b>Quantity Unit</b>	Unit Price Ex	ctended Amount
104-12       STAKED TURBIDITY BARRIER-NYL REINF PVC       17.05 LF       \$19.18       \$327.02         104-15       SOIL TRACKING PREVENTION DEVICE       1.00 EA       \$4,709.30       \$4,709.30         104-18       INLET PROTECTION SYSTEM       1.00 EA       \$192.13       \$192.13         107-1       LITTER REMOVAL       0.41 AC       \$57.63       \$23.63         107-2       MOWING       0.41 AC       \$54.82       \$22.48	104-10-3	SEDIMENT BARRIER	2,070.55 LF	\$3.32	\$6,874.23
104-12       NYL REINF PVC       17.05 LF       \$19.18       \$327.02         104-15       SOIL TRACKING PREVENTION DEVICE       1.00 EA       \$4,709.30       \$4,709.30         104-18       INLET PROTECTION SYSTEM       1.00 EA       \$192.13       \$192.13         107-1       LITTER REMOVAL       0.41 AC       \$57.63       \$23.63         107-2       MOWING       0.41 AC       \$54.82       \$22.48	104-11	FLOATING TURBIDITY BARRIER	17.05 LF	\$15.96	\$272.12
104-15 DEVICE 1.00 EA \$4,709.30 \$4,709.30 104-18 INLET PROTECTION SYSTEM 1.00 EA \$192.13 \$192.13 107-1 LITTER REMOVAL 0.41 AC \$57.63 \$23.63 107-2 MOWING 0.41 AC \$54.82 \$22.48	104-12	0.7.0.120 . 0.1.2.2.1 27.0.0.12.1	17.05 LF	\$19.18	\$327.02
107-1 LITTER REMOVAL 0.41 AC \$57.63 \$23.63 107-2 MOWING 0.41 AC \$54.82 \$22.48	104-15		1.00 EA	\$4,709.30	\$4,709.30
107-2 MOWING 0.41 AC \$54.82 \$22.48	104-18	INLET PROTECTION SYSTEM	1.00 EA	\$192.13	\$192.13
	107-1	LITTER REMOVAL	0.41 AC	\$57.63	\$23.63
Shoulder Commonant Total	107-2	MOWING	0.41 AC	\$54.82	\$22.48
Chaulder Commonant Total					
Snoulder Component Total \$111,881.85		Shoulder Component Total			\$111,881.85

## **DRAINAGE COMPONENT**

Pay Items				
Pay item	Description	<b>Quantity Unit</b>	Unit Price E	xtended Amount
430-174-124	PIPE CULV, OPT MATL, ROUND,24"SD	32.00 LF	\$278.89	\$8,924.48
430-175-136	PIPE CULV, OPT MATL, ROUND, 36"S/CD	16.00 LF	\$310.89	\$4,974.24
430-984-129	MITERED END SECT, OPTIONAL RD, 24" SD	2.00 EA	\$3,624.19	\$7,248.38
570-1-1	PERFORMANCE TURF	68.88 SY	\$6.88	\$473.89
	Drainage Component Total			\$21,620.99

#### **SIGNING COMPONENT**

Pay Items				
Pay item	Description	<b>Quantity Unit</b>	Unit Price	Extended Amount
700-1-111	SINGLE COL GRND SIGN AS, F&I GM, <12 SF	1.00 EA	\$543.45	\$543.45
700-1-112	SINGLE COL GRND SIGN AS, F&I GM, 12-20	4.00 EA	\$1,918.21	\$7,672.84
700-1-500	SINGLE COL GRND SIGN AS, RELOCATE	1.00 EA	\$348.10	\$348.10
700-1-600	SINGLE COL GRND SIGN AS, REMOVE	4.00 EA	\$58.36	\$233.44
700-2-113	MULTI- COLUMN SIGN, F&I GM, 20.1-30 SF	1.00 EA	\$6,727.35	\$6,727.35
700-2-600	MULTI- COLUMN GROUND SIGN, REMOVE	1.00 EA	\$1,238.78	\$1,238.78
	Signing Component Total			\$16,763.96

## LIGHTING COMPONENT

# **Rural Lighting Subcomponent**

DescriptionValueMultiplier (Number of Poles)5

Pay Items				
Pay item	Description	<b>Quantity Unit</b>	Unit Price	<b>Extended Amount</b>
630-2-11	CONDUIT, F& I, OPEN TRENCH	1,000.00 LF	\$24.85	\$24,850.00
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24"	5.00 EA	\$1,708.32	\$8,541.60
715-1-13	LIGHTING CONDUCTORS, F&I, INSUL, NO.4-2	3,000.00 LF	\$6.55	\$19,650.00
715-61-442	LIGHT POLE CMPLT,STD,F&I, 45'MH,12'ARM L	5.00 EA	\$16,000.00	\$80,000.00
715-500-1	POLE CABLE DIST SYS, CONVENTIONAL	5.00 EA	\$1,175.12	\$5,875.60
	Subcomponent Total			\$138,917.20
	Lighting Component Total			\$138,917.20
Sequence 5	Total			\$562,086.60

Sequence: 6 WUR - Widen/Resurface, Undivided, Rural

Net Length:

0.220 MI
1,160 LF

Description: Ramp C - NB on one lane section

Special M&R Conditions:

#### **EARTHWORK COMPONENT**

#### **User Input Data**

<b>Description</b> Standard Clearing and Grubbing Limits L/R	<b>Value</b> 15.00 / 15.00
Incidental Clearing and Grubbing Area	0.00
Alignment Number	1
Distance	0.259
Top of Structural Course For Begin Section	102.00
Top of Structural Course For End Section	102.00
Horizontal Elevation For Begin Section	100.00
Horizontal Elevation For End Section	100.00
Existing Front Slope L/R	6 to 1 / 6 to 1
Existing Outside Shoulder Cross Slope L/R	6.00 % / 6.00 %
Front Slope L/R	6 to 1 / 6 to 1
Outside Shoulder Cross Slope L/R	6.00 % / 6.00 %
Roadway Cross Slope L/R	2.00 % / 2.00 %

#### Pay Items

Pay item	Description	<b>Quantity Unit</b>	Unit Price Ext	tended Amount
110-1-1	CLEARING & GRUBBING	0.80 AC	\$69,069.09	\$55,255.27
120-2-2	BORROW EXCAVATION, TRUCK MEASURE	188.41 CY	\$53.86	\$10,147.76
	Earthwork Component Total			\$65,403.03

#### **ROADWAY COMPONENT**

## **User Input Data**

Description	Value
Number of Lanes	1
Existing Roadway Pavement Width L/R	7.50 / 7.50
Structural Spread Rate	165
Friction Course Spread Rate	80
Widened Outside Pavement Width L/R	0.00 / 0.00
Widened Structural Spread Rate	275
Widened Friction Course Spread Rate	165

## Pay Items

Pay item	Description	<b>Quantity Unit</b>	Unit Price Ext	ended Amount
160-4	TYPE B STABILIZATION	2,320.03 SY	\$21.48	\$49,834.24
327-70-5	MILLING EXIST ASPH PAVT, 2" AVG DEPTH	1,933.36 SY	\$7.52	\$14,538.87
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	159.50 TN	\$188.86	\$30,123.17
337-7-83	ASPH CONC FC,TRAFFIC C,FC- 12.5,PG 76-22	77.33 TN	\$206.53	\$15,970.96

#### **Pavement Marking Subcomponent**

Description	Value
Include Thermo/Tape/Other	N
Pavement Type	Asphalt

Solid Stripe No. of Paint Applications	2
Solid Stripe No. of Stripes	2
Skip Stripe No. of Paint Applications	2
Skip Stripe No. of Stripes	0

## Pay Items

Pay item	Description	<b>Quantity Unit</b>	Unit Price Exte	ended Amount
710-11-101	PAINTED PAVT MARK,STD,WHITE,SOLID,6"	0.88 GM	\$1,448.71	\$1,274.86

# **Peripherals Subcomponent**

Description	Value
Off Road Bike Path(s)	0
Off Road Bike Path Width L/R	0.00 / 0.00
Bike Path Structural Spread Rate	0
Noise Barrier Wall Length	0.00
Noise Barrier Wall Begin Height	0.00
Noise Barrier Wall End Height	0.00

# Pay Items

Pay item	Description	<b>Quantity Unit</b>	Unit Price Ext	ended Amount
339-1	MISCELLANEOUS ASPHALT PAVEMENT	21.67 TN	\$492.00	\$10,661.64
536-1-0	GUARDRAIL- ROADWAY, GEN/LS TL-2	650.00 LF	\$31.69	\$20,598.50
	Roadway Component Total			\$143,002.24

## SHOULDER COMPONENT

# **User Input Data**

Description	Value
Existing Total Outside Shoulder Width L/R	6.00 / 6.00
New Total Outside Shoulder Width L/R	6.00 / 12.00
Total Outside Shoulder Perf. Turf Width L/R	2.00 / 2.00
Existing Paved Outside Shoulder Width L/R	2.00 / 6.00
New Paved Outside Shoulder Width L/R	4.00 / 10.00
Structural Spread Rate	110
Friction Course Spread Rate	80
Total Width (T) / 8" Overlap (O)	Т
Rumble Strips ï¿⅓No. of Sides	0

# Pay Items

Pay item	Description	<b>Quantity Unit</b>	Unit Price Ext	ended Amount
285-704	OPTIONAL BASE,BASE GROUP 04	1,889.54 SY	\$42.51	\$80,324.35
327-70-1	MILLING EXIST ASPH PAVT, 1" AVG DEPTH	1,031.13 SY	\$4.30	\$4,433.86
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	99.25 TN	\$188.86	\$18,744.36
337-7-83	ASPH CONC FC,TRAFFIC C,FC- 12.5,PG 76-22	72.18 TN	\$206.53	\$14,907.34
570-1-1	PERFORMANCE TURF	515.56 SY	\$6.88	\$3,547.05

## **Erosion Control**

Pay item	Description	Quantity Unit	Unit Price Ext	ended Amount
104-10-3	SEDIMENT BARRIER	2,668.04 LF	\$3.32	\$8,857.89

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104-11	FLOATING TURBIDITY BARRIER	21.97 LF	\$15.96	\$350.64
104-12	STAKED TURBIDITY BARRIER- NYL REINF PVC	21.97 LF	\$19.18	\$421.38
104-15	SOIL TRACKING PREVENTION DEVICE	1.00 EA	\$4,709.30	\$4,709.30
104-18	INLET PROTECTION SYSTEM	1.00 EA	\$192.13	\$192.13
107-1	LITTER REMOVAL	0.53 AC	\$57.63	\$30.54
107-2	MOWING	0.53 AC	\$54.82	\$29.05
	Shoulder Component Total			\$136,547.89

#### **DRAINAGE COMPONENT**

Pay Items				
Pay item	Description	<b>Quantity Unit</b>	Unit Price Ext	ended Amount
430-174-124	PIPE CULV, OPT MATL, ROUND,24"SD	32.00 LF	\$278.89	\$8,924.48
430-175-136	PIPE CULV, OPT MATL, ROUND, 36"S/CD	16.00 LF	\$310.89	\$4,974.24
430-984-129	MITERED END SECT, OPTIONAL RD, 24" SD	3.00 EA	\$3,624.19	\$10,872.57
570-1-1	PERFORMANCE TURF	88.76 SY	\$6.88	\$610.67
	Drainage Component Total			\$25,381.96

## **SIGNING COMPONENT**

Pay Items				
Pay item	Description	<b>Quantity Unit</b>	Unit Price Ext	ended Amount
700-1-111	SINGLE COL GRND SIGN AS, F&I GM, <12 SF	1.00 EA	\$543.45	\$543.45
700-1-112	SINGLE COL GRND SIGN AS, F&I GM, 12-20	5.00 EA	\$1,918.21	\$9,591.05
700-1-500	SINGLE COL GRND SIGN AS, RELOCATE	1.00 EA	\$348.10	\$348.10
700-1-600	SINGLE COL GRND SIGN AS, REMOVE	5.00 EA	\$58.36	\$291.80
700-2-113	MULTI- COLUMN SIGN, F&I GM, 20.1-30 SF	1.00 EA	\$6,727.35	\$6,727.35
700-2-600	MULTI- COLUMN GROUND SIGN, REMOVE	1.00 EA	\$1,238.78	\$1,238.78
	Signing Component Total			\$18,740.53

## LIGHTING COMPONENT

## **Rural Lighting Subcomponent**

Description Multiplier (Nur Pay Items	nber of Poles)			<b>Value</b> 6
Pay item	Description	Quantity Unit	Unit Price	<b>Extended Amount</b>
630-2-11	CONDUIT, F& I, OPEN TRENCH	1,200.00 LF	\$24.85	\$29,820.00
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24"	6.00 EA	\$1,708.32	\$10,249.92
715-1-13	LIGHTING CONDUCTORS, F&I, INSUL, NO.4-2	3,600.00 LF	\$6.55	\$23,580.00
715-61-442	LIGHT POLE CMPLT,STD,F&I, 45'MH,12'ARM L	6.00 EA	\$16,000.00	\$96,000.00

2/12/25, 9:32 AM

POLE CABLE DIST SYS, 715-500-1

CONVENTIONAL **Subcomponent Total**  6.00 EA \$1,175.12 \$7,050.72

\$166,700.64

**Lighting Component Total** 

\$166,700.64

ARCHITECTURAL COMPONENT

X-Items

Pay item Description **Quantity Unit Unit Price Extended Amount** 

735-74 TOLL PLAZA, SINGLE LOCATION 1.00 LS \$200,000.00 \$200,000.00

Comment: M&R EXISTING TOLL GANTRY

**Architectural Component Total** 

\$200,000.00

Sequence 6 Total

\$755,776.29

Sequence: 7 WUR - Widen/Resurface, Undivided, Rural

Net Length:

0.294 MI
1,550 LF

Description: Ramp D - SB off one lane section

Special M&R Conditions:

#### **EARTHWORK COMPONENT**

#### **User Input Data**

Description	Value
Standard Clearing and Grubbing Limits L/R	15.00 / 15.00
Incidental Clearing and Grubbing Area	0.00
Alignment Number	1
Distance	0.293
Top of Structural Course For Begin Section	102.00
Top of Structural Course For End Section	102.00
Horizontal Elevation For Begin Section	100.00
Horizontal Elevation For End Section	100.00
Existing Front Slope L/R	6 to 1 / 6 to 1
Existing Outside Shoulder Cross Slope L/R	6.00 % / 6.00 %
Front Slope L/R	6 to 1 / 6 to 1
Outside Shoulder Cross Slope L/R	6.00 % / 6.00 %
Roadway Cross Slope L/R	2.00 % / 2.00 %

## Pay Items

Pay item	Description	<b>Quantity Unit</b>	Unit Price Ext	ended Amount
110-1-1	CLEARING & GRUBBING	1.07 AC	\$69,069.09	\$73,903.93
	Earthwork Component Total			\$73,903.93

#### **ROADWAY COMPONENT**

## **User Input Data**

Description	Value
Number of Lanes	1
Existing Roadway Pavement Width L/R	7.50 / 7.50
Structural Spread Rate	165
Friction Course Spread Rate	80
Widened Outside Pavement Width L/R	0.00 / 0.00
Widened Structural Spread Rate	275
Widened Friction Course Spread Rate	165

#### Pay Items

Pay item	Description	<b>Quantity Unit</b>	Unit Price Ext	ended Amount
327-70-5	MILLING EXIST ASPH PAVT, 2" AVG DEPTH	2,583.68 SY	\$7.52	\$19,429.27
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	213.15 TN	\$188.86	\$40,255.51
337-7-83	ASPH CONC FC,TRAFFIC C,FC- 12.5,PG 76-22	103.35 TN	\$206.53	\$21,344.88

## **Pavement Marking Subcomponent**

Description	Value
Include Thermo/Tape/Other	N
Pavement Type	Asphalt
Solid Stripe No. of Paint Applications	2
Solid Stripe No. of Stripes	2
Skip Stripe No. of Paint Applications	2

Skip Stripe No. of Stripes

Λ

Pay	<b>Items</b>

Pay item	Description	Quantity Unit	Unit Price Exte	ended Amount
710-11-101	PAINTED PAVT MARK,STD,WHITE,SOLID,6"	1.17 GM	\$1,448.71	\$1,694.99

# **Peripherals Subcomponent**

Description	Value
Off Road Bike Path(s)	0
Off Road Bike Path Width L/R	0.00 / 0.00
Bike Path Structural Spread Rate	0
Noise Barrier Wall Length	0.00
Noise Barrier Wall Begin Height	0.00
Noise Barrier Wall End Height	0.00

# **Roadway Component Total**

\$82,724.65

## SHOULDER COMPONENT

# **User Input Data**

Description	Value
Existing Total Outside Shoulder Width L/R	6.00 / 6.00
New Total Outside Shoulder Width L/R	6.00 / 6.00
Total Outside Shoulder Perf. Turf Width L/R	4.00 / 2.00
Existing Paved Outside Shoulder Width L/R	0.00 / 0.00
New Paved Outside Shoulder Width L/R	2.00 / 4.00
Structural Spread Rate	110
Friction Course Spread Rate	80
Total Width (T) / 8" Overlap (O)	Т
Rumble Strips �No. of Sides	0

# Pay Items

Pay item	Description	<b>Quantity Unit</b>	Unit Price Ext	ended Amount
285-704	OPTIONAL BASE,BASE GROUP 04	1,147.15 SY	\$42.51	\$48,765.35
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	56.84 TN	\$188.86	\$10,734.80
337-7-83	ASPH CONC FC,TRAFFIC C,FC- 12.5,PG 76-22	41.34 TN	\$206.53	\$8,537.95
570-1-1	PERFORMANCE TURF	1,033.47 SY	\$6.88	\$7,110.27

# **Erosion Control**

Pay item	Description	<b>Quantity Unit</b>	Unit Price Extended Amoun	
104-10-3	SEDIMENT BARRIER	3,565.48 LF	\$3.32	\$11,837.39
104-11	FLOATING TURBIDITY BARRIER	29.36 LF	\$15.96	\$468.59
104-12	STAKED TURBIDITY BARRIER- NYL REINF PVC	29.36 LF	\$19.18	\$563.12
104-15	SOIL TRACKING PREVENTION DEVICE	1.00 EA	\$4,709.30	\$4,709.30
104-18	INLET PROTECTION SYSTEM	1.00 EA	\$192.13	\$192.13
107-1	LITTER REMOVAL	0.71 AC	\$57.63	\$40.92
107-2	MOWING	0.71 AC	\$54.82	\$38.92
	Shoulder Component Total			\$92,998.74

## **DRAINAGE COMPONENT**

Pay Items				
Pay item	Description	<b>Quantity Unit</b>	Unit Price Ex	tended Amount
430-174-124	PIPE CULV, OPT MATL, ROUND,24"SD	48.00 LF	\$278.89	\$13,386.72
430-175-136	PIPE CULV, OPT MATL, ROUND, 36"S/CD	24.00 LF	\$310.89	\$7,461.36
430-984-129	MITERED END SECT, OPTIONAL RD, 24" SD	3.00 EA	\$3,624.19	\$10,872.57
570-1-1	PERFORMANCE TURF	118.61 SY	\$6.88	\$816.04
	Drainage Component Total			\$32,536.69

## **SIGNING COMPONENT**

Pay Items				
Pay item	Description	<b>Quantity Unit</b>	Unit Price Ex	tended Amount
700-1-111	SINGLE COL GRND SIGN AS, F&I GM, <12 SF	1.00 EA	\$543.45	\$543.45
700-1-112	SINGLE COL GRND SIGN AS, F&I GM, 12-20	6.00 EA	\$1,918.21	\$11,509.26
700-1-500	SINGLE COL GRND SIGN AS, RELOCATE	1.00 EA	\$348.10	\$348.10
700-1-600	SINGLE COL GRND SIGN AS, REMOVE	6.00 EA	\$58.36	\$350.16
700-2-113	MULTI- COLUMN SIGN, F&I GM, 20.1-30 SF	1.00 EA	\$6,727.35	\$6,727.35
700-2-600	MULTI- COLUMN GROUND SIGN, REMOVE	1.00 EA	\$1,238.78	\$1,238.78
	Signing Component Total			\$20,717.10

#### LIGHTING COMPONENT

Durall	l iahtina	Subcomponent	

Description Multiplier (Nun Pay Items	nber of Poles)			<b>Value</b> 6
Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
630-2-11	CONDUIT, F& I, OPEN TRENCH	1,200.00 LF	\$24.85	\$29,820.00
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24"	6.00 EA	\$1,708.32	\$10,249.92
715-1-13	LIGHTING CONDUCTORS, F&I, INSUL, NO.4-2	3,600.00 LF	\$6.55	\$23,580.00
715-61-442	LIGHT POLE CMPLT,STD,F&I, 45'MH,12'ARM L	6.00 EA	\$16,000.00	\$96,000.00
715-500-1	POLE CABLE DIST SYS, CONVENTIONAL	6.00 EA	\$1,175.12	\$7,050.72
	Subcomponent Total			\$166,700.64
	Lighting Component Total			\$166,700.64

## ARCHITECTURAL COMPONENT

Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	Extended Amount
735-74	TOLL PLAZA, SINGLE LOCATION	1.00 LS	\$200,000.00	\$200,000.00

Comment: M&R EXISTING TOLL GANTRY

Architectural Component Total	\$200,000.00
Sequence 7 Total	\$669,581.75

Sequence: 8 WUR - Widen/Resurface, Undivided, Rural

Net Length: 0.191 MI 1,010 LF

Description: Ramp D - SB off two and three lane section

Special M&R and widening

#### **EARTHWORK COMPONENT**

#### **User Input Data**

<b>Description</b> Standard Clearing and Grubbing Limits L/R Incidental Clearing and Grubbing Area	<b>Value</b> 40.00 / 40.00 0.00
Alignment Number	1
Distance	0.191
Top of Structural Course For Begin Section	102.00
Top of Structural Course For End Section	102.00
Horizontal Elevation For Begin Section	100.00
Horizontal Elevation For End Section	100.00
Existing Front Slope L/R	6 to 1 / 6 to 1
Existing Outside Shoulder Cross Slope L/R	6.00 % / 6.00 %
Front Slope L/R	6 to 1 / 6 to 1
Outside Shoulder Cross Slope L/R	6.00 % / 6.00 %
Roadway Cross Slope L/R	2.00 % / 2.00 %

#### Pay Items

,				
Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
110-1-1	CLEARING & GRUBBING	1.85 AC	\$69,069.09	\$127,777.82
120-2-2	BORROW EXCAVATION, TRUCK MEASURE	226.35 CY	\$53.86	\$12,191.21
	Earthwork Component Total			\$139,969.03

#### **ROADWAY COMPONENT**

## **User Input Data**

Description	Value
Number of Lanes	3
Existing Roadway Pavement Width L/R	12.00 / 12.00
Structural Spread Rate	165
Friction Course Spread Rate	80
Widened Outside Pavement Width L/R	12.00 / 0.00
Widened Structural Spread Rate	275
Widened Friction Course Spread Rate	165

,				
Pay item	Description	<b>Quantity Unit</b>	Unit Price Exten	ded Amount
160-4	TYPE B STABILIZATION	4,040.26 SY	\$21.48	\$86,784.78
285-709	OPTIONAL BASE,BASE GROUP 09	1,383.79 SY	\$58.67	\$81,186.96
327-70-5	MILLING EXIST ASPH PAVT, 2" AVG DEPTH	2,693.50 SY	\$7.52	\$20,255.12
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	222.21 TN	\$188.86	\$41,966.58
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	185.18 TN	\$188.86	\$34,973.09
337-7-83	ASPH CONC FC,TRAFFIC C,FC- 12.5,PG 76-22	107.74 TN	\$206.53	\$22,251.54
337-7-83	ASPH CONC FC,TRAFFIC C,FC- 12.5,PG 76-22	111.11 TN	\$206.53	\$22,947.55

## **Pavement Marking Subcomponent**

Description	Value
Include Thermo/Tape/Other	N
Pavement Type	Asphalt
Solid Stripe No. of Paint Applications	2
Solid Stripe No. of Stripes	2
Skip Stripe No. of Paint Applications	2
Skip Stripe No. of Stripes	2

# Pay Items

Pay item	Description	<b>Quantity Unit</b>	Unit Price E	xtended Amount
706-1-3	RAISED PAVMT MARK, TYPE B	103.00 EA	\$4.96	\$510.88
710-11-101	PAINTED PAVT MARK,STD,WHITE,SOLID,6"	0.77 GM	\$1,448.71	\$1,115.51
710-11-231	PAINTED PAVT MARK.STD.YELLOW.SKIP.6"	0.77 GM	\$693.74	\$534.18

## **Peripherals Subcomponent**

Description	Value
Off Road Bike Path(s)	0
Off Road Bike Path Width L/R	0.00 / 0.00
Bike Path Structural Spread Rate	0
Noise Barrier Wall Length	0.00
Noise Barrier Wall Begin Height	0.00
Noise Barrier Wall End Height	0.00

**Roadway Component Total** 

\$312,526.19

## **SHOULDER COMPONENT**

## **User Input Data**

Description	Value
Existing Total Outside Shoulder Width L/R	8.00 / 12.00
New Total Outside Shoulder Width L/R	12.00 / 12.00
Total Outside Shoulder Perf. Turf Width L/R	2.00 / 2.00
Existing Paved Outside Shoulder Width L/R	4.00 / 10.00
New Paved Outside Shoulder Width L/R	10.00 / 10.00
Structural Spread Rate	110
Friction Course Spread Rate	80
Total Width (T) / 8" Overlap (O)	Т
Rumble Strips �No. of Sides	0

## Pay Items

Pay item	Description	<b>Quantity Unit</b>	Unit Price Ex	tended Amount
285-704	OPTIONAL BASE,BASE GROUP 04	2,318.66 SY	\$42.51	\$98,566.24
327-70-1	MILLING EXIST ASPH PAVT, 1" AVG DEPTH	1,571.21 SY	\$4.30	\$6,756.20
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	123.45 TN	\$188.86	\$23,314.77
337-7-83	ASPH CONC FC,TRAFFIC C,FC- 12.5,PG 76-22	89.78 TN	\$206.53	\$18,542.26
570-1-1	PERFORMANCE TURF	448.92 SY	\$6.88	\$3,088.57

# **Erosion Control**

Pay Items

Pay item Description Quantity Unit Unit Price Extended Amount

		, , ,	•	
104-10-3	SEDIMENT BARRIER	2,323.15 LF	\$3.32	\$7,712.86
104-11	FLOATING TURBIDITY BARRIER	19.13 LF	\$15.96	\$305.31
104-12	STAKED TURBIDITY BARRIER- NYL REINF PVC	19.13 LF	\$19.18	\$366.91
104-15	SOIL TRACKING PREVENTION DEVICE	1.00 EA	\$4,709.30	\$4,709.30
104-18	INLET PROTECTION SYSTEM	1.00 EA	\$192.13	\$192.13
107-1	LITTER REMOVAL	0.46 AC	\$57.63	\$26.51
107-2	MOWING	0.46 AC	\$54.82	\$25.22
	Shoulder Component Total			\$163,606.28

#### **DRAINAGE COMPONENT**

Pay Items				
Pay item	Description	<b>Quantity Unit</b>	Unit Price Ex	tended Amount
430-174-124	PIPE CULV, OPT MATL, ROUND,24"SD	32.00 LF	\$278.89	\$8,924.48
430-175-136	PIPE CULV, OPT MATL, ROUND, 36"S/CD	16.00 LF	\$310.89	\$4,974.24
430-984-129	MITERED END SECT, OPTIONAL RD, 24" SD	2.00 EA	\$3,624.19	\$7,248.38
570-1-1	PERFORMANCE TURF	77.29 SY	\$6.88	\$531.76
	Drainage Component Total			\$21,678.86

#### **SIGNING COMPONENT**

Pay Items				
Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	Extended Amount
700-1-111	SINGLE COL GRND SIGN AS, F&I GM, <12 SF	1.00 EA	\$543.45	\$543.45
700-1-112	SINGLE COL GRND SIGN AS, F&I GM, 12-20	4.00 EA	\$1,918.21	\$7,672.84
700-1-500	SINGLE COL GRND SIGN AS, RELOCATE	1.00 EA	\$348.10	\$348.10
700-1-600	SINGLE COL GRND SIGN AS, REMOVE	4.00 EA	\$58.36	\$233.44
700-2-113	MULTI- COLUMN SIGN, F&I GM, 20.1-30 SF	1.00 EA	\$6,727.35	\$6,727.35
700-2-600	MULTI- COLUMN GROUND SIGN, REMOVE	1.00 EA	\$1,238.78	\$1,238.78
	Signing Component Total			\$16,763.96

# LIGHTING COMPONENT

## **Rural Lighting Subcomponent**

Description				Value		
Multiplier (Nun	Multiplier (Number of Poles) 4			4		
Pay Items						
Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>		
630-2-11	CONDUIT, F& I, OPEN TRENCH	800.00 LF	\$24.85	\$19,880.00		
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24"	4.00 EA	\$1,708.32	\$6,833.28		
715-1-13	LIGHTING CONDUCTORS, F&I, INSUL, NO.4-2	2,400.00 LF	\$6.55	\$15,720.00		

715-61-442	LIGHT POLE CMPLT,STD,F&I, 45'MH,12'ARM L	4.00 EA	\$16,000.00	\$64,000.00
715-500-1	POLE CABLE DIST SYS, CONVENTIONAL	4.00 EA	\$1,175.12	\$4,700.48
	Subcomponent Total			\$111,133.76
	Lighting Component Total			\$111,133.76
Sequence 8 Total				\$765,678.08

Sequence: 9 WDR - Widen/Resurface, Divided, Rural

Net Length: 0.587 MI 3,100 LF

**Description:** Van Dyke Rd. **Special** Widening **Conditions:** 

#### **EARTHWORK COMPONENT**

## **User Input Data**

Description Standard Clearing and Grubbing Limits L/R Incidental Clearing and Grubbing Area	<b>Value</b> 20.00 / 20.00 0.00
Alignment Number	1
Distance	0.312
Top of Structural Course For Begin Section	102.00
Top of Structural Course For End Section	102.00
Horizontal Elevation For Begin Section	100.00
Horizontal Elevation For End Section	100.00
Existing Front Slope L/R	6 to 1 / 6 to 1
Existing Median Slope L/R	6 to 1 / 6 to 1
Existing Median Shoulder Cross Slope L/R	5.00 % / 5.00 %
Existing Outside Shoulder Cross Slope L/R	6.00 % / 6.00 %
Front Slope L/R	6 to 1 / 6 to 1
Median Slope L/R	6 to 1 / 6 to 1
Median Shoulder Cross Slope L/R	5.00 % / 5.00 %
Outside Shoulder Cross Slope L/R	6.00 % / 6.00 %
Roadway Cross Slope L/R	2.00 % / 2.00 %

#### Pav Items

,				
Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
110-1-1	CLEARING & GRUBBING	2.85 AC	\$69,069.09	\$196,846.91
120-2-2	BORROW EXCAVATION, TRUCK MEASURE	209.89 CY	\$53.86	\$11,304.68
	Earthwork Component Total			\$208,151.59

#### **ROADWAY COMPONENT**

## **User Input Data**

Description	Value
Number of Lanes	5
Existing Roadway Pavement Width L/R	24.00 / 24.00
Structural Spread Rate	220
Friction Course Spread Rate	80
Widened Outside Pavement Width L/R	12.00 / 0.00
Widened Inside Pavement Width L/R	0.00 / 0.00
Widened Structural Spread Rate	330
Widened Friction Course Spread Rate	80

Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
160-4	TYPE B STABILIZATION	10,332.96 SY	\$21.48	\$221,951.98
285-709	OPTIONAL BASE,BASE GROUP 09	4,246.85 SY	\$58.67	\$249,162.69
327-70-5	MILLING EXIST ASPH PAVT, 2" AVG DEPTH	16,532.74 SY	\$7.52	\$124,326.20
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	1,818.60 TN	\$188.86	\$343,460.80

334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	681.98 TN	\$188.86	\$128,798.74
337-7-25	ASPH CONC FC,INC BIT,FC- 5,PG76-22	661.31 TN	\$247.36	\$163,581.64
337-7-25	ASPH CONC FC,INC BIT,FC- 5 PG76-22	165.33 TN	\$247.36	\$40,896.03

## **Pavement Marking Subcomponent**

Description	Value
Include Thermo/Tape/Other	N
Pavement Type	Asphalt
Solid Stripe No. of Paint Applications	2
Solid Stripe No. of Stripes	4
Skip Stripe No. of Paint Applications	2
Skip Stripe No. of Stripes	3

#### Pay Items

Pay item	Description	<b>Quantity Unit</b>	Unit Price	Extended Amount
706-1-3	RAISED PAVMT MARK, TYPE B	317.00 EA	\$4.96	\$1,572.32
710-11-101	PAINTED PAVT MARK,STD,WHITE,SOLID,6"	4.70 GM	\$1,448.71	\$6,808.94
710-11-131	PAINTED PAVT MARK,STD,WHITE,SKIP, 6"	3.52 GM	\$598.83	\$2,107.88
	Roadway Component Total			\$1,282,667.22

#### SHOULDER COMPONENT

# **User Input Data**

Description	Value
Existing Total Outside Shoulder Width L/R	8.00 / 10.00
New Total Outside Shoulder Width L/R	8.00 / 10.00
Total Outside Shoulder Perf. Turf Width L/R	4.00 / 5.00
Existing Paved Outside Shoulder Width L/R	0.00 / 0.00
New Paved Outside Shoulder Width L/R	4.00 / 5.00
Structural Spread Rate	110
Friction Course Spread Rate	80
Total Width (T) / 8" Overlap (O)	T
Rumble Strips ï¿1/2No. of Sides	0

## Pay Items

Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	Extended Amount
285-704	OPTIONAL BASE,BASE GROUP 04	3,327.21 SY	\$42.51	\$141,439.70
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	170.49 TN	\$188.86	\$32,198.74
337-7-25	ASPH CONC FC,INC BIT,FC- 5,PG76-22	124.00 TN	\$247.36	\$30,672.64
570-1-1	PERFORMANCE TURF	3,099.89 SY	\$6.88	\$21,327.24

#### X-Items

Pay item	Description	<b>Quantity Unit</b>	Unit Price Ex	tended Amount
350-3-1	PLAIN CEMENT CONC PAVT, 6"	1,000.00 SY	\$120.03	\$120,030.00
	Comment: Shared use nath			

#### **Erosion Control**

Pay Items

Pay item Description Quantity Unit Unit Price Extended Amount

	Shoulder Component Total			\$376,591.59
107-2	MOWING	4.27 AC	\$54.82	\$234.08
107-1	LITTER REMOVAL	4.27 AC	\$57.63	\$246.08
104-15	SOIL TRACKING PREVENTION DEVICE	1.00 EA	\$4,709.30	\$4,709.30
104-12	STAKED TURBIDITY BARRIER- NYL REINF PVC	58.71 LF	\$19.18	\$1,126.06
104-11	FLOATING TURBIDITY BARRIER	58.71 LF	\$15.96	\$937.01
104-10-3	SEDIMENT BARRIER	7,129.74 LF	\$3.32	\$23,670.74
			•	

#### **MEDIAN COMPONENT**

User Input Data	Use	er In	put	Data
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Description	Value
Total Median Width	40.00
Performance Turf Width	36.00
New Total Median Shoulder Width L/R	0.00 / 0.00
New Paved Median Shoulder Width L/R	0.00 / 0.00
Existing Total Median Shoulder Width L/R	0.00 / 0.00
Existing Paved Median Shoulder Width L/R	0.00 / 0.00
Structural Spread Rate	110
Friction Course Spread Rate	80
Total Width (T) / 8" Overlap (O)	Т
Rumble Strips �No. of Sides	0

## Pay Items

,				
Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
570-1-1	PERFORMANCE TURF	12,399.55 SY	\$6.88	\$85,308.90
X-Items				
Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
520-1-10	CONCRETE CURB & GUTTER, TYPE F	4,000.00 LF	\$49.20	\$196,800.00
	Comment: median curb and gutter (lt/rt)			
	Median Component Total			\$282,108.90

## **DRAINAGE COMPONENT**

	Drainage Component Total			\$236,383.00
570-1-1	PERFORMANCE TURF	413.32 SY	\$6.88	\$2,843.64
430-984-129	MITERED END SECT, OPTIONAL RD, 24" SD	24.00 EA	\$3,624.19	\$86,980.56
430-175-136	PIPE CULV, OPT MATL, ROUND, 36"S/CD	48.00 LF	\$310.89	\$14,922.72
430-174-124	PIPE CULV, OPT MATL, ROUND,24"SD	472.00 LF	\$278.89	\$131,636.08
Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	Extended Amount
Pay Items				

## **SIGNING COMPONENT**

## Pay Items

Pay item Description Quantity Unit Unit Price Extended Amount

VI.	LILL INC. II	ojeci Detailo by Cequi	shoe report	
700-1-111	SINGLE COL GRND SIGN AS, F&I GM, <12 SF	2.00 EA	\$543.45	\$1,086.90
700-1-112	SINGLE COL GRND SIGN AS, F&I GM, 12-20	15.00 EA	\$1,918.21	\$28,773.15
700-1-500	SINGLE COL GRND SIGN AS, RELOCATE	2.00 EA	\$348.10	\$696.20
700-1-600	SINGLE COL GRND SIGN AS, REMOVE	15.00 EA	\$58.36	\$875.40
700-2-114	MULTI- COLUMN SIGN, F&I GM, 30.1-50 SF	2.00 EA	\$8,985.18	\$17,970.36
700-2-600	MULTI- COLUMN GROUND SIGN, REMOVE	2.00 EA	\$1,238.78	\$2,477.56
X-Items				
Pay item	Description	Quantity Unit	Unit Price	<b>Extended Amount</b>
700-2-116	MULTI- COLUMN SIGN, F&I GM, 100.1-200 SF	4.00 EA	\$17,590.91	\$70,363.64
700-3-105	SIGN PANEL, F&I GM, 51-100 SF	4.00 EA	\$4,447.82	\$17,791.28
700-3-206	SIGN PANEL, F&I OM, 101-200 SF	2.00 EA	\$10,172.19	\$20,344.38
700-4-114	OH STATIC SIGN STR, F&I, C 41- 50 FT	2.00 EA	\$182,265.02	\$364,530.04
	Signing Component Total			\$524,908.91

## LIGHTING COMPONENT

Rural Lighting	g Subcomponent				
Description				Value	
Multiplier (Nun	nber of Poles)			26	
Pay Items					
Pay item	Description	Quantity Unit	<b>Unit Price</b>	<b>Extended Amount</b>	
630-2-11	CONDUIT, F& I, OPEN TRENCH	5,200.00 LF	\$24.85	\$129,220.00	
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24"	26.00 EA	\$1,708.32	\$44,416.32	
715-1-13	LIGHTING CONDUCTORS, F&I, INSUL, NO.4-2	15,600.00 LF	\$6.55	\$102,180.00	
715-61-442	LIGHT POLE CMPLT,STD,F&I, 45'MH,12'ARM L	26.00 EA	\$16,000.00	\$416,000.00	
715-500-1	POLE CABLE DIST SYS, CONVENTIONAL	26.00 EA	\$1,175.12	\$30,553.12	
	Subcomponent Total			\$722,369.44	
	Lighting Component Total			\$722,369.44	

Sequence 9 Total

\$3,633,180.65

Sequence: 10 MIS - Miscellaneous Construction Net Length:  $0.000 \text{ MI} \\ 0 \text{ LF}$ 

Description: ITS

**MISCELLANEOUS COMPONENT** 

**EX-Items** 

Pay item Description Quantity Unit Unit Price Extended Amount

ITS ITS, MOC, 4% OF SUBTOTAL 1.00 1 \$430,442.00 \$430,442.00

Miscellaneous Component Total \$430,442.00

**Sequence 10 Total** \$430,442.00

Sequence: 11 MIS - Miscellaneous Construction Net Length:  $0.000 \text{ MI} \\ 0 \text{ LF}$ 

**Description:** Landscaping

LANDSCAPING COMPONENT

**User Input Data** 

 Description
 Value

 Lump Sum
 1,076,105.00

 Cost %
 0.00

 Component Detail
 N

**Landscaping Component Total** 

\$1,076,105.00

**Sequence 11 Total** \$1,076,105.00

Sequence: 12 MIS - Miscellaneous Construction Net Length:  $0.000 \text{ MI} \\ 0 \text{ LF}$ 

Description: 25% Unknown

#### **MISCELLANEOUS COMPONENT**

**EX-Items** 

Pay itemDescriptionQuantity UnitUnit PriceExtended Amount25% UNKNOWN FOR INFLATION1.00 1\$3,150,646.00\$3,150,646.00

Miscellaneous Component Total \$3,150,646.00

**Sequence 12 Total** \$3,150,646.00

Date: 2/12/2025 9:32:04 AM

# FDOT Long Range Estimating System - Production R3: Project Details by Sequence Report

**Project:** 448068-1-22-01 **Letting Date:** 01/2099

Description: PD&E WIDEN SUNCOAST PKWY(SR589) - S OF VAN DYKE RD TO SR52 (MP13-29)

District: 08 County: 97 TURNPIKE Market Area: 99 Units: English

Contract Class: 3 Lump Sum Project: N Design/Build: N Project Length: 15.979 MI

Project Manager: SHARMA

Version 15 Project Grand Total \$16,485,839.38

Description: Van Dyke Road

Project Sequences Subtotal			\$13,500,693.70
102-1	Maintenance of Traffic	10.00 %	\$1,350,069.37
101-1	Mobilization	10.00 %	\$1,485,076.31
Project Sequences Total			\$16,335,839.38
Project Unl	knowns	0.00 %	\$0.00
Design/Bui	ild	0.00 %	\$0.00

**Non-Bid Components:** 

Pay itemDescriptionQuantity UnitUnit PriceExtended Amount999-25INITIAL CONTINGENCY AMOUNT<br/>(DO NOT BID)LS\$150,000.00\$150,000.00Project Non-Bid Subtotal\$150,000.00

Version 15 Project Grand Total \$16,485,839.38

Date: 2/12/2025 9:14:20 AM

# FDOT Long Range Estimating System - Production R3: Project Details by Sequence Report

**Project**: 448068-1-22-01 **Letting Date**: 01/2099

Description: PD&E WIDEN SUNCOAST PKWY(SR589) - S OF VAN DYKE RD TO SR52 (MP13-29)

District: 08 County: 97 TURNPIKE Market Area: 99 Units: English

Contract Class: 3 Lump Sum Project: N Design/Build: N Project Length: 15.979 MI

Project Manager: SHARMA

Version 5 Project Grand Total \$23,665,423.26

Description: Lutz Lake Fern Road

Sequence: 3 NUR - New Construction, Undivided, Rural

Net Length: 0.303 MI 1,600 LF

Description: Ramp A - One Iane NB off-ramp

#### **EARTHWORK COMPONENT**

#### **User Input Data**

Description	Value
Standard Clearing and Grubbing Limits L/R	0.00 / 0.00
Incidental Clearing and Grubbing Area	14.30
Alignment Number	1
Distance	0.303
Top of Structural Course For Begin Section	105.00
Top of Structural Course For End Section	111.00
Horizontal Elevation For Begin Section	100.00
Horizontal Elevation For End Section	100.00
Front Slope L/R	4 to 1 / 4 to 1
Outside Shoulder Cross Slope L/R	6.00 % / 6.00 %

#### Pay Items

Roadway Cross Slope L/R

Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
110-1-1	CLEARING & GRUBBING	14.30 AC	\$69,069.09	\$987,687.99
120-6	EMBANKMENT	26,770.66 CY	\$24.75	\$662,573.84
	Earthwork Component Total			\$1.650.261.83

#### **ROADWAY COMPONENT**

#### **User Input Data**

Description	Value
Number of Lanes	1
Roadway Pavement Width L/R	7.50 / 7.50
Structural Spread Rate	275
Friction Course Spread Rate	80

#### Pay Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
160-4	TYPE B STABILIZATION	4,799.52 SY	\$21.48	\$103,093.69
285-709	OPTIONAL BASE,BASE GROUP 09	2,783.72 SY	\$58.67	\$163,320.85

2.00 % / 2.00 %

334-1-53	SUPERPAVE ASPH CONC, TRAF C, PG76-22	366.63 TN	\$193.09	\$70,792.59
337-7-25	ASPH CONC FC,INC BIT,FC- 5,PG76-22	106.66 TN	\$247.36	\$26,383.42

#### X-Items

Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
536-85-25	GUARDRAIL END TREAT- TRAIL AN TYPE II	1.00 EA	\$536.63	\$536.63

## **Pavement Marking Subcomponent**

Description	Value
Include Thermo/Tape/Other	N
Pavement Type	Asphalt
Solid Stripe No. of Paint Applications	2
Solid Stripe No. of Stripes	2
Skip Stripe No. of Paint Applications	2
Skip Stripe No. of Stripes	0

# Pay Items

Pay item	Description	Quantity Unit	<b>Unit Price</b>	<b>Extended Amount</b>
710-11-101	PAINTED PAVT MARK STD WHITE SOLID 6"	1.21 GM	\$1,448.71	\$1,752.94

## **Peripherals Subcomponent**

Description	Value
Off Road Bike Path(s)	0
Off Road Bike Path Width L/R	0.00 / 0.00
Bike Path Structural Spread Rate	0
Noise Barrier Wall Length	0.00
Noise Barrier Wall Begin Height	0.00
Noise Barrier Wall End Height	0.00

#### Pay Items

Pay item	Description	<b>Quantity Unit</b>	Unit Price	Extended Amount
339-1	MISCELLANEOUS ASPHALT PAVEMENT	53.33 TN	\$492.00	\$26,238.36
536-1-1	GUARDRAIL- ROADWAY, GEN TL-3	1,600.00 LF	\$29.57	\$47,312.00
	Roadway Component Total			\$439,430.48

## SHOULDER COMPONENT

## **User Input Data**

Description	Value
Total Outside Shoulder Width L/R	6.00 / 6.00
Total Outside Shoulder Perf. Turf Width L/R	4.00 / 2.00
Paved Outside Shoulder Width L/R	2.00 / 4.00
Structural Spread Rate	165
Friction Course Spread Rate	80
Total Width (T) / 8" Overlap (O)	0
Rumble Strips �No. of Sides	0

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
285-704	OPTIONAL BASE BASE GROUP 04	1.183.88 SY	\$42.51	\$50.326.74

334-1-12	SUPERPAVE ASPHALTIC CONC, TRAFFIC B	87.99 TN	\$186.77	\$16,433.89
337-7-25	ASPH CONC FC,INC BIT,FC- 5,PG76-22	9.39 TN	\$247.36	\$2,322.71
570-1-1	PERFORMANCE TURF	1,066.56 SY	\$6.88	\$7,337.93

## **Erosion Control**

Pay It	ems
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Pay item	Description	<b>Quantity Unit</b>	Unit Price	Extended Amount
104-10-3	SEDIMENT BARRIER	4,159.00 LF	\$3.32	\$13,807.88
104-11	FLOATING TURBIDITY BARRIER	75.75 LF	\$15.96	\$1,208.97
104-12	STAKED TURBIDITY BARRIER- NYL REINF PVC	75.75 LF	\$19.18	\$1,452.88
104-15	SOIL TRACKING PREVENTION DEVICE	1.00 EA	\$4,709.30	\$4,709.30
107-1	LITTER REMOVAL	0.36 AC	\$57.63	\$20.75
107-2	MOWING	0.36 AC	\$54.82	\$19.74
	Shoulder Component Total			\$97,640.80

## **DRAINAGE COMPONENT**

Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
400-2-2	CONC CLASS II, ENDWALLS	5.45 CY	\$795.54	\$4,335.69
430-984-129	MITERED END SECT, OPTIONAL RD, 24" SD	13.00 EA	\$3,624.19	\$47,114.47
570-1-1	PERFORMANCE TURF	213.31 SY	\$6.88	\$1,467.57

## X-Items

Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
430-174-124	PIPE CULV, OPT MATL, ROUND,24"SD	248.00 LF	\$278.89	\$69,164.72
430-175-130	PIPE CULV, OPT MATL, ROUND, 30"S/CD	56.00 LF	\$233.39	\$13,069.84

#### **Retention Basin 1**

Description	Value
Size	.5 AC
Multiplier	2
Depth	6.00
Description	Expand exist ponds in infield areas (south and north sides)

Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
110-1-1	CLEARING & GRUBBING	1.00 AC	\$27,000.00	\$27,000.00
120-1	REGULAR EXCAVATION	9,680.00 CY	\$104.30	\$1,009,624.00
425-1-541	INLETS, DT BOT, TYPE D, <10'	2.00 EA	\$11,392.37	\$22,784.74
425-2-71	MANHOLES, J-7, <10'	2.00 EA	\$12,151.00	\$24,302.00
430-175-142	PIPE CULV, OPT MATL, ROUND, 42"S/CD	112.00 LF	\$654.39	\$73,291.68
430-175-160	PIPE CULV, OPT MATL, ROUND, 60"S/CD	400.00 LF	\$612.49	\$244,996.00
550-10-220	FENCING, TYPE B, 5.1-6.0', STANDARD	1,200.00 LF	\$81.27	\$97,524.00

	Drainage Component Total			\$1,732,599.09
570-1-1	PERFORMANCE TURF	4,840.00 SY	\$18.06	\$87,410.40
550-60-234	FENCE GATE,TYP B,SLIDE/CANT,18.1-20'OPEN	2.00 EA	\$5,256.99	\$10,513.98

## **SIGNING COMPONENT**

Pay Items				
Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
700-1-12	SINGLE POST SIGN, F&I GM, 12-20 SF	7.00 AS	\$2,203.70	\$15,425.90
700-2-14	MULTI- POST SIGN, F&I GM, 31-50 SF	1.00 AS	\$6,953.23	\$6,953.23
	Signing Component Total			\$22,379.13

## LIGHTING COMPONENT

# **Rural Lighting Subcomponent**

Description				Value
Multiplier (Nun	nber of Poles)			4
Pay Items				
Pay item	Description	Quantity Unit	Unit Price	Extended Amount
630-2-11	CONDUIT, F& I, OPEN TRENCH	800.00 LF	\$24.85	\$19,880.00
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24"	4.00 EA	\$1,708.32	\$6,833.28
715-1-13	LIGHTING CONDUCTORS, F&I, INSUL, NO.4-2	2,400.00 LF	\$6.55	\$15,720.00
715-61-442	LIGHT POLE CMPLT,STD,F&I, 45'MH,12'ARM L	4.00 EA	\$16,000.00	\$64,000.00
715-500-1	POLE CABLE DIST SYS, CONVENTIONAL	4.00 EA	\$1,175.12	\$4,700.48
	Subcomponent Total			\$111,133.76
	Lighting Component Total			\$111,133.76

# LANDSCAPING COMPONENT

# **User Input Data**

Description	Value
Cost %	10.00
Component Detail	N

Landscaping Component Total \$432,368	\$432,368.55
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# **Sequence 3 Total** \$4,485,813.64

Sequence: 12 WUR - Widen/Resurface, Undivided, Rural

Net Length:

0.117 MI
616 LF

Description: Ramp A - Milling and Resurfacing and Shoulder Widening NB off-ramp

## **EARTHWORK COMPONENT**

# **User Input Data**

Description	Value
Standard Clearing and Grubbing Limits L/R	30.00 / 30.00
Incidental Clearing and Grubbing Area	0.00
Alignment Number	1
Distance	0.117
Top of Structural Course For Begin Section	102.00
Top of Structural Course For End Section	102.00
Horizontal Elevation For Begin Section	100.00
Horizontal Elevation For End Section	100.00
Existing Front Slope L/R	6 to 1 / 6 to 1
Existing Outside Shoulder Cross Slope L/R	6.00 % / 6.00 %
Front Slope L/R	6 to 1 / 6 to 1
Outside Shoulder Cross Slope L/R	6.00 % / 6.00 %
Roadway Cross Slope L/R	2.00 % / 2.00 %

#### Pay Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
110-1-1	CLEARING & GRUBBING	0.85 AC	\$69,069.09	\$58,708.73
120-2-2	BORROW EXCAVATION, TRUCK MEASURE	350.06 CY	\$53.86	\$18,854.23
	Earthwork Component Total			\$77,562.96

# **ROADWAY COMPONENT**

#### **User Input Data**

Description	Value
Number of Lanes	1
Existing Roadway Pavement Width L/R	7.50 / 7.50
Structural Spread Rate	165
Friction Course Spread Rate	80
Widened Outside Pavement Width L/R	0.00 / 0.00
Widened Structural Spread Rate	275
Widened Friction Course Spread Rate	165

## Pay Items

Pay item	Description	<b>Quantity Unit</b>	Unit Price Ex	tended Amount
160-4	TYPE B STABILIZATION	1,369.28 SY	\$21.48	\$29,412.13
327-70-5	MILLING EXIST ASPH PAVT, 2" AVG DEPTH	1,026.96 SY	\$7.52	\$7,722.74
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	84.72 TN	\$188.86	\$16,000.22
337-7-83	ASPH CONC FC,TRAFFIC C,FC- 12.5,PG 76-22	41.08 TN	\$206.53	\$8,484.25

## **Pavement Marking Subcomponent**

Description	Value
Include Thermo/Tape/Other	N
Pavement Type	Asphalt
Solid Stripe No. of Paint Applications	2
Solid Stripe No. of Stripes	2

Skip Stripe No. of Paint Applications 2
Skip Stripe No. of Stripes 0

Pay Items

Pay item	Description	Quantity Unit	Unit Price E	xtended Amount
710-11-101	PAINTED PAVT MARK.STD.WHITE.SOLID.6"	0.47 GM	\$1,448.71	\$680.89

## **Peripherals Subcomponent**

Description	Value
Off Road Bike Path(s)	0
Off Road Bike Path Width L/R	0.00 / 0.00
Bike Path Structural Spread Rate	0
Noise Barrier Wall Length	0.00
Noise Barrier Wall Begin Height	0.00
Noise Barrier Wall End Height	0.00

#### Pay Items

. uy				
Pay item	Description	<b>Quantity Unit</b>	Unit Price E	xtended Amount
339-1	MISCELLANEOUS ASPHALT PAVEMENT	20.87 TN	\$492.00	\$10,268.04
536-1-1	GUARDRAIL- ROADWAY, GEN TL-3	616.00 LF	\$29.57	\$18,215.12
536-85-29	GUARDRAIL END TREAT- DBL TRAIL AN	1.00 EA	\$2,400.48	\$2,400.48
	Roadway Component Total			\$93,183.87

## SHOULDER COMPONENT

## **User Input Data**

Description	Value
Existing Total Outside Shoulder Width L/R	0.00 / 0.00
New Total Outside Shoulder Width L/R	8.00 / 12.00
Total Outside Shoulder Perf. Turf Width L/R	4.00 / 2.00
Existing Paved Outside Shoulder Width L/R	0.00 / 0.00
New Paved Outside Shoulder Width L/R	4.00 / 10.00
Structural Spread Rate	110
Friction Course Spread Rate	80
Total Width (T) / 8" Overlap (O)	Т
Rumble Strips ï¿.½No. of Sides	0

## Pay Items

Pay item	Description	<b>Quantity Unit</b>	Unit Price Ex	tended Amount
285-704	OPTIONAL BASE,BASE GROUP 04	1,003.68 SY	\$42.51	\$42,666.44
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	52.72 TN	\$188.86	\$9,956.70
337-7-83	ASPH CONC FC,TRAFFIC C,FC- 12.5,PG 76-22	38.34 TN	\$206.53	\$7,918.36
570-1-1	PERFORMANCE TURF	410.78 SY	\$6.88	\$2,826.17

#### **Erosion Control**

Pay item	Description	<b>Quantity Unit</b>	Unit Price E	xtended Amount
104-10-3	SEDIMENT BARRIER	1,417.20 LF	\$3.32	\$4,705.10
104-11	FLOATING TURBIDITY BARRIER	11.67 LF	\$15.96	\$186.25
104-12	STAKED TURBIDITY BARRIER- NYL REINF PVC	11.67 LF	\$19.18	\$223.83

104-15	SOIL TRACKING PREVENTION DEVICE	1.00 EA	\$4,709.30	\$4,709.30
104-18	INLET PROTECTION SYSTEM	1.00 EA	\$192.13	\$192.13
107-1	LITTER REMOVAL	0.28 AC	\$57.63	\$16.14
107-2	MOWING	0.28 AC	\$54.82	\$15.35
	Shoulder Component Total			\$73,415.77

## **DRAINAGE COMPONENT**

Pay Items				
Pay item	Description	<b>Quantity Unit</b>	Unit Price E	Extended Amount
430-174-124	PIPE CULV, OPT MATL, ROUND,24"SD	24.00 LF	\$278.89	\$6,693.36
430-175-136	PIPE CULV, OPT MATL, ROUND, 36"S/CD	8.00 LF	\$310.89	\$2,487.12
430-984-129	MITERED END SECT, OPTIONAL RD, 24" SD	2.00 EA	\$3,624.19	\$7,248.38
570-1-1	PERFORMANCE TURF	47.15 SY	\$6.88	\$324.39
	Drainage Component Total			\$16,753.25

#### **SIGNING COMPONENT**

Pay Items				
Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	Extended Amount
700-1-111	SINGLE COL GRND SIGN AS, F&I GM, <12 SF	1.00 EA	\$543.45	\$543.45
700-1-112	SINGLE COL GRND SIGN AS, F&I GM, 12-20	3.00 EA	\$1,918.21	\$5,754.63
700-1-500	SINGLE COL GRND SIGN AS, RELOCATE	1.00 EA	\$348.10	\$348.10
700-1-600	SINGLE COL GRND SIGN AS, REMOVE	3.00 EA	\$58.36	\$175.08
700-2-113	MULTI- COLUMN SIGN, F&I GM, 20.1-30 SF	1.00 EA	\$6,727.35	\$6,727.35
700-2-600	MULTI- COLUMN GROUND SIGN, REMOVE	1.00 EA	\$1,238.78	\$1,238.78
	Signing Component Total			\$14,787.39

## LIGHTING COMPONENT

Rural	Liahtina	Subcomponent	

<b>Description</b> Multiplier (Number of Poles)			<b>Value</b> 3		
Pay Items					
Pay item	Description	Quantity Unit	Unit Price	Extended Amount	
630-2-11	CONDUIT, F& I, OPEN TRENCH	600.00 LF	\$24.85	\$14,910.00	
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24"	3.00 EA	\$1,708.32	\$5,124.96	
715-1-13	LIGHTING CONDUCTORS, F&I, INSUL, NO.4-2	1,800.00 LF	\$6.55	\$11,790.00	
715-61-442	LIGHT POLE CMPLT,STD,F&I, 45'MH,12'ARM L	3.00 EA	\$16,000.00	\$48,000.00	
715-500-1	POLE CABLE DIST SYS, CONVENTIONAL	3.00 EA	\$1,175.12	\$3,525.36	
	Subcomponent Total			\$83,350.32	

# **Lighting Component Total**

\$83,350.32

## LANDSCAPING COMPONENT

**User Input Data** 

DescriptionValueCost %10.00Component DetailN

**Landscaping Component Total** 

\$35,905.36

Sequence 12 Total

\$394,958.92

Sequence: 13 WUR - Widen/Resurface, Undivided, Rural

Net Length:

0.111 MI
588 LF

**Description:** Ramp A - four lane portion of ramp at intersection of crossroad NB off-ramp

## **EARTHWORK COMPONENT**

#### **User Input Data**

Description	Value
Standard Clearing and Grubbing Limits L/R	30.00 / 30.00
Incidental Clearing and Grubbing Area	0.00
Alignment Number	1
Distance	0.111
Top of Structural Course For Begin Section	102.00
Top of Structural Course For End Section	102.00
Horizontal Elevation For Begin Section	100.00
Horizontal Elevation For End Section	100.00
Existing Front Slope L/R	6 to 1 / 6 to 1
Existing Outside Shoulder Cross Slope L/R	6.00 % / 6.00 %
Front Slope L/R	6 to 1 / 6 to 1
Outside Shoulder Cross Slope L/R	6.00 % / 6.00 %
Roadway Cross Slope L/R	2.00 % / 2.00 %

#### Pay Items

Pay item	Description	<b>Quantity Unit</b>	Unit Price	Extended Amount
110-1-1	CLEARING & GRUBBING	0.81 AC	\$69,069.09	\$55,945.96
120-2-2	BORROW EXCAVATION, TRUCK MEASURE	17.37 CY	\$53.86	\$935.55
	Earthwork Component Total			\$56,881.51

# **ROADWAY COMPONENT**

#### **User Input Data**

Description	Value
Number of Lanes	4
Existing Roadway Pavement Width L/R	24.00 / 12.00
Structural Spread Rate	165
Friction Course Spread Rate	80
Widened Outside Pavement Width L/R	0.00 / 12.00
Widened Structural Spread Rate	275
Widened Friction Course Spread Rate	165

## Pay Items

Pay item	Description	<b>Quantity Unit</b>	Unit Price Ex	tended Amount
160-4	TYPE B STABILIZATION	2,091.35 SY	\$21.48	\$44,922.20
285-709	OPTIONAL BASE,BASE GROUP 09	805.82 SY	\$58.67	\$47,277.46
327-70-5	MILLING EXIST ASPH PAVT, 2" AVG DEPTH	2,352.77 SY	\$7.52	\$17,692.83
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	194.10 TN	\$188.86	\$36,657.73
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	107.84 TN	\$188.86	\$20,366.66
337-7-83	ASPH CONC FC,TRAFFIC C,FC- 12.5,PG 76-22	94.11 TN	\$206.53	\$19,436.54
337-7-83	ASPH CONC FC,TRAFFIC C,FC- 12.5,PG 76-22	64.70 TN	\$206.53	\$13,362.49

## **Pavement Marking Subcomponent**

Description	Value
Include Thermo/Tape/Other	N
Pavement Type	Asphalt
Solid Stripe No. of Paint Applications	2
Solid Stripe No. of Stripes	2
Skip Stripe No. of Paint Applications	2
Skip Stripe No. of Stripes	3

# Pay Items

Pay item	Description	<b>Quantity Unit</b>	Unit Price I	Extended Amount
706-1-3	RAISED PAVMT MARK, TYPE B	75.00 EA	\$4.96	\$372.00
710-11-101	PAINTED PAVT MARK,STD,WHITE,SOLID,6"	0.45 GM	\$1,448.71	\$651.92
710-11-231	PAINTED PAVT MARK,STD,YELLOW,SKIP,6"	0.67 GM	\$693.74	\$464.81
	Roadway Component Total			\$201,204.64

#### SHOULDER COMPONENT

# **User Input Data**

Description	Value
Existing Total Outside Shoulder Width L/R	8.00 / 12.00
New Total Outside Shoulder Width L/R	8.00 / 12.00
Total Outside Shoulder Perf. Turf Width L/R	4.00 / 2.00
Existing Paved Outside Shoulder Width L/R	0.00 / 0.00
New Paved Outside Shoulder Width L/R	4.00 / 10.00
Structural Spread Rate	110
Friction Course Spread Rate	80
Total Width (T) / 8" Overlap (O)	Т
Rumble Strips �No. of Sides	0

# Pay Items

Pay item	Description	<b>Quantity Unit</b>	Unit Price Ex	tended Amount
285-704	OPTIONAL BASE, BASE GROUP 04	958.10 SY	\$42.51	\$40,728.83
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	50.32 TN	\$188.86	\$9,503.44
337-7-83	ASPH CONC FC,TRAFFIC C,FC- 12.5,PG 76-22	36.60 TN	\$206.53	\$7,559.00
570-1-1	PERFORMANCE TURF	392.13 SY	\$6.88	\$2,697.85

## **Erosion Control**

Pay item	Description	<b>Quantity Unit</b>	Unit Price Ex	tended Amount
104-10-3	SEDIMENT BARRIER	1,352.84 LF	\$3.32	\$4,491.43
104-11	FLOATING TURBIDITY BARRIER	11.14 LF	\$15.96	\$177.79
104-12	STAKED TURBIDITY BARRIER- NYL REINF PVC	11.14 LF	\$19.18	\$213.67
104-15	SOIL TRACKING PREVENTION DEVICE	1.00 EA	\$4,709.30	\$4,709.30
104-18	INLET PROTECTION SYSTEM	1.00 EA	\$192.13	\$192.13
107-1	LITTER REMOVAL	0.27 AC	\$57.63	\$15.56
107-2	MOWING	0.27 AC	\$54.82	\$14.80
	Shoulder Component Total			\$70,303.80

## **DRAINAGE COMPONENT**

Pay Items				
Pay item	Description	<b>Quantity Unit</b>	Unit Price Ex	xtended Amount
430-174-124	PIPE CULV, OPT MATL, ROUND,24"SD	16.00 LF	\$278.89	\$4,462.24
430-175-136	PIPE CULV, OPT MATL, ROUND, 36"S/CD	8.00 LF	\$310.89	\$2,487.12
430-984-129	MITERED END SECT, OPTIONAL RD, 24" SD	2.00 EA	\$3,624.19	\$7,248.38
570-1-1	PERFORMANCE TURF	45.01 SY	\$6.88	\$309.67
	Drainage Component Total			\$14,507.41

## **SIGNING COMPONENT**

Pay Items				
Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	Extended Amount
700-1-111	SINGLE COL GRND SIGN AS, F&I GM, <12 SF	1.00 EA	\$543.45	\$543.45
700-1-112	SINGLE COL GRND SIGN AS, F&I GM, 12-20	3.00 EA	\$1,918.21	\$5,754.63
700-1-500	SINGLE COL GRND SIGN AS, RELOCATE	1.00 EA	\$348.10	\$348.10
700-1-600	SINGLE COL GRND SIGN AS, REMOVE	3.00 EA	\$58.36	\$175.08
700-2-113	MULTI- COLUMN SIGN, F&I GM, 20.1-30 SF	1.00 EA	\$6,727.35	\$6,727.35
700-2-600	MULTI- COLUMN GROUND SIGN, REMOVE	1.00 EA	\$1,238.78	\$1,238.78
	Signing Component Total			\$14,787.39

#### LIGHTING COMPONENT

Rural	Lighting	Subcomponent
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Description				Value
Multiplier (Number of Poles)				3
Pay Items				
Pay item	Description	Quantity Unit	Unit Price	Extended Amount
630-2-11	CONDUIT, F& I, OPEN TRENCH	600.00 LF	\$24.85	\$14,910.00
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24"	3.00 EA	\$1,708.32	\$5,124.96
715-1-13	LIGHTING CONDUCTORS, F&I, INSUL, NO.4-2	1,800.00 LF	\$6.55	\$11,790.00
715-61-442	LIGHT POLE CMPLT,STD,F&I, 45'MH,12'ARM L	3.00 EA	\$16,000.00	\$48,000.00
715-500-1	POLE CABLE DIST SYS, CONVENTIONAL	3.00 EA	\$1,175.12	\$3,525.36
	Subcomponent Total			\$83,350.32
	Lighting Component Total			\$83,350.32

# LANDSCAPING COMPONENT

# **User Input Data**

Description	Value
Cost %	10.00
Component Detail	N

Landscaping Component Total	\$44,103.51
Sequence 13 Total	\$485,138.58

Sequence: 14 WUR - Widen/Resurface, Undivided, Rural

Net Length:

0.195 MI
1,027 LF

**Description:** Ramp B - Two lane portion of ramp at intersection of crossroad NB on-ramp

#### **EARTHWORK COMPONENT**

#### **User Input Data**

Description	Value
Standard Clearing and Grubbing Limits L/R	30.00 / 30.00
Incidental Clearing and Grubbing Area	0.00
Alignment Number	1
Distance	0.194
Top of Structural Course For Begin Section	102.00
Top of Structural Course For End Section	102.00
Horizontal Elevation For Begin Section	100.00
Horizontal Elevation For End Section	100.00
Existing Front Slope L/R	6 to 1 / 6 to 1
Existing Outside Shoulder Cross Slope L/R	6.00 % / 6.00 %
Front Slope L/R	6 to 1 / 6 to 1
Outside Shoulder Cross Slope L/R	6.00 % / 6.00 %
Roadway Cross Slope L/R	2.00 % / 2.00 %

#### Pay Items

,				
Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
110-1-1	CLEARING & GRUBBING	1.41 AC	\$69,069.09	\$97,387.42
120-2-2	BORROW EXCAVATION, TRUCK MEASURE	50.46 CY	\$53.86	\$2,717.78
	Earthwork Component Total			\$100,105.20

# **ROADWAY COMPONENT**

#### **User Input Data**

Description	Value
Number of Lanes	2
Existing Roadway Pavement Width L/R	12.00 / 12.00
Structural Spread Rate	165
Friction Course Spread Rate	80
Widened Outside Pavement Width L/R	0.00 / 0.00
Widened Structural Spread Rate	275
Widened Friction Course Spread Rate	165

#### Pay Items

Pay item	Description	<b>Quantity Unit</b>	Unit Price Ext	ended Amount
160-4	TYPE B STABILIZATION	2,282.13 SY	\$21.48	\$49,020.15
327-70-5	MILLING EXIST ASPH PAVT, 2" AVG DEPTH	2,738.56 SY	\$7.52	\$20,593.97
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	225.93 TN	\$188.86	\$42,669.14
337-7-83	ASPH CONC FC,TRAFFIC C,FC- 12.5,PG 76-22	109.54 TN	\$206.53	\$22,623.30

## **Pavement Marking Subcomponent**

Description	Value
Include Thermo/Tape/Other	N
Pavement Type	Asphalt
Solid Stripe No. of Paint Applications	2
Solid Stripe No. of Stripes	2

Skip Stripe No. of Paint Applications 2
Skip Stripe No. of Stripes 1

Pay item	Description	<b>Quantity Unit</b>	Unit Price	Extended Amount
706-1-3	RAISED PAVMT MARK, TYPE B	26.00 EA	\$4.96	\$128.96
710-11-101	PAINTED PAVT MARK,STD,WHITE,SOLID,6"	0.78 GM	\$1,448.71	\$1,129.99
710-11-231	PAINTED PAVT MARK,STD,YELLOW,SKIP,6"	0.39 GM	\$693.74	\$270.56
	Roadway Component Total			\$136,436.07

#### SHOULDER COMPONENT

## **User Input Data**

Description	Value
Existing Total Outside Shoulder Width L/R	6.00 / 6.00
New Total Outside Shoulder Width L/R	8.00 / 12.00
Total Outside Shoulder Perf. Turf Width L/R	4.00 / 2.00
Existing Paved Outside Shoulder Width L/R	0.00 / 0.00
New Paved Outside Shoulder Width L/R	4.00 / 10.00
Structural Spread Rate	110
Friction Course Spread Rate	80
Total Width (T) / 8" Overlap (O)	T
Rumble Strips �No. of Sides	0

# Pay Items

Pay item	Description	<b>Quantity Unit</b>	Unit Price Exte	nded Amount
285-704	OPTIONAL BASE,BASE GROUP 04	1,672.80 SY	\$42.51	\$71,110.73
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	87.86 TN	\$188.86	\$16,593.24
337-7-83	ASPH CONC FC,TRAFFIC C,FC- 12.5,PG 76-22	63.90 TN	\$206.53	\$13,197.27
570-1-1	PERFORMANCE TURF	684.64 SY	\$6.88	\$4,710.32

## **Erosion Control**

## Pay Items

Pay item	Description	<b>Quantity Unit</b>	Unit Price Ext	tended Amount
104-10-3	SEDIMENT BARRIER	2,362.01 LF	\$3.32	\$7,841.87
104-11	FLOATING TURBIDITY BARRIER	19.45 LF	\$15.96	\$310.42
104-12	STAKED TURBIDITY BARRIER- NYL REINF PVC	19.45 LF	\$19.18	\$373.05
104-15	SOIL TRACKING PREVENTION DEVICE	1.00 EA	\$4,709.30	\$4,709.30
104-18	INLET PROTECTION SYSTEM	1.00 EA	\$192.13	\$192.13
107-1	LITTER REMOVAL	0.47 AC	\$57.63	\$27.09
107-2	MOWING	0.47 AC	\$54.82	\$25.77
	Shoulder Component Total			\$119,091.19

#### **DRAINAGE COMPONENT**

Pay	Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
430-174-124	PIPE CULV, OPT MATL,	32.00 LF	\$278.89	\$8,924.48

	Drainage Component Total	7 6.00 6 1	φο.σσ	\$21,687.73
570-1-1	PERFORMANCE TURF	78.58 SY	\$6.88	\$540.63
430-984-129	MITERED END SECT, OPTIONAL RD. 24" SD	2.00 EA	\$3,624.19	\$7,248.38
430-175-136	PIPE CULV, OPT MATL, ROUND, 36"S/CD	16.00 LF	\$310.89	\$4,974.24

## **SIGNING COMPONENT**

Pay Items				
Pay item	Description	<b>Quantity Unit</b>	Unit Price E	xtended Amount
700-1-111	SINGLE COL GRND SIGN AS, F&I GM, <12 SF	1.00 EA	\$543.45	\$543.45
700-1-112	SINGLE COL GRND SIGN AS, F&I GM, 12-20	4.00 EA	\$1,918.21	\$7,672.84
700-1-500	SINGLE COL GRND SIGN AS, RELOCATE	1.00 EA	\$348.10	\$348.10
700-1-600	SINGLE COL GRND SIGN AS, REMOVE	4.00 EA	\$58.36	\$233.44
700-2-113	MULTI- COLUMN SIGN, F&I GM, 20.1-30 SF	1.00 EA	\$6,727.35	\$6,727.35
700-2-600	MULTI- COLUMN GROUND SIGN, REMOVE	1.00 EA	\$1,238.78	\$1,238.78
	Signing Component Total			\$16,763.96

#### **LIGHTING COMPONENT**

Description Multiplier (Nun Pay Items	nber of Poles)			<b>Value</b> 5
Pay item	Description	Quantity Unit	<b>Unit Price</b>	<b>Extended Amount</b>
630-2-11	CONDUIT, F& I, OPEN TRENCH	1,000.00 LF	\$24.85	\$24,850.00
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24"	5.00 EA	\$1,708.32	\$8,541.60
715-1-13	LIGHTING CONDUCTORS, F&I, INSUL, NO.4-2	3,000.00 LF	\$6.55	\$19,650.00
715-61-442	LIGHT POLE CMPLT,STD,F&I, 45'MH,12'ARM L	5.00 EA	\$16,000.00	\$80,000.00
715-500-1	POLE CABLE DIST SYS, CONVENTIONAL	5.00 EA	\$1,175.12	\$5,875.60
	Subcomponent Total			\$138,917.20
	Lighting Component Total			\$138,917.20

# LANDSCAPING COMPONENT

**User Input Data** 

DescriptionValueCost %10.00Component DetailN

Landscaping Component Total \$53,300.14

**Sequence 14 Total** \$586,301.49

Sequence: 15 WUR - Widen/Resurface, Undivided, Rural

Net Length:

0.167 MI
883 LF

**Description:** Ramp B - One lane portion of ramp M&R NB on-ramp

#### **EARTHWORK COMPONENT**

#### **User Input Data**

Description Standard Clearing and Grubbing Limits L/R Incidental Clearing and Grubbing Area	<b>Value</b> 30.00 / 30.00 0.00
modernal oleaning and olabbing filed	0.00
Alignment Number	1
Distance	0.167
Top of Structural Course For Begin Section	102.00
Top of Structural Course For End Section	102.00
Horizontal Elevation For Begin Section	100.00
Horizontal Elevation For End Section	100.00
Existing Front Slope L/R	6 to 1 / 6 to 1
Existing Outside Shoulder Cross Slope L/R	6.00 % / 6.00 %
Front Slope L/R	6 to 1 / 6 to 1
Outside Shoulder Cross Slope L/R	6.00 % / 6.00 %
Roadway Cross Slope L/R	2.00 % / 2.00 %

## Pay Items

Pay item	Description	<b>Quantity Unit</b>	Unit Price E	xtended Amount
110-1-1	CLEARING & GRUBBING	1.21 AC	\$69,069.09	\$83,573.60
	Farthwork Component Total			\$83 573 60

## **ROADWAY COMPONENT**

## **User Input Data**

Description	Value
Number of Lanes	1
Existing Roadway Pavement Width L/R	7.50 / 7.50
Structural Spread Rate	165
Friction Course Spread Rate	80
Widened Outside Pavement Width L/R	0.00 / 0.00
Widened Structural Spread Rate	275
Widened Friction Course Spread Rate	165

## Pay Items

Pay item	Description	<b>Quantity Unit</b>	Unit Price Ex	tended Amount
160-4	TYPE B STABILIZATION	588.54 SY	\$21.48	\$12,641.84
327-70-5	MILLING EXIST ASPH PAVT, 2" AVG DEPTH	1,471.36 SY	\$7.52	\$11,064.63
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	121.39 TN	\$188.86	\$22,925.72
337-7-83	ASPH CONC FC,TRAFFIC C,FC- 12.5,PG 76-22	58.85 TN	\$206.53	\$12,154.29

## **Pavement Marking Subcomponent**

Description	Value
Include Thermo/Tape/Other	N
Pavement Type	Asphalt
Solid Stripe No. of Paint Applications	2
Solid Stripe No. of Stripes	2
Skip Stripe No. of Paint Applications	2
Skip Stripe No. of Stripes	0

Pay	Items
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Pay item	Description	Quantity Unit	Unit Price Ex	xtended Amount
710-11-101	PAINTED PAVT MARK,STD,WHITE,SOLID,6"	0.67 GM	\$1,448.71	\$970.64

# **Peripherals Subcomponent**

Description	Value
Off Road Bike Path(s)	0
Off Road Bike Path Width L/R	0.00 / 0.00
Bike Path Structural Spread Rate	0
Noise Barrier Wall Length	0.00
Noise Barrier Wall Begin Height	0.00
Noise Barrier Wall End Height	0.00

# Pay Items

Pay item	Description	<b>Quantity Unit</b>	Unit Price E	Extended Amount
339-1	MISCELLANEOUS ASPHALT PAVEMENT	29.77 TN	\$492.00	\$14,646.84
536-1-1	GUARDRAIL- ROADWAY, GEN TL-3	883.00 LF	\$29.57	\$26,110.31
536-85-26	GUARDRAIL END TREATMENT- TYPE CRT	1.00 EA	\$3,616.29	\$3,616.29
	Roadway Component Total			\$104,130.56

## SHOULDER COMPONENT

# **User Input Data**

Description	Value
Existing Total Outside Shoulder Width L/R	6.00 / 6.00
New Total Outside Shoulder Width L/R	0.00 / 6.00
Total Outside Shoulder Perf. Turf Width L/R	0.00 / 2.00
Existing Paved Outside Shoulder Width L/R	2.00 / 0.00
New Paved Outside Shoulder Width L/R	0.00 / 4.00
Structural Spread Rate	110
Friction Course Spread Rate	80
Total Width (T) / 8" Overlap (O)	Т
Rumble Strips �No. of Sides	0

# Pay Items

Pay item	Description	<b>Quantity Unit</b>	Unit Price E	Extended Amount
285-704	OPTIONAL BASE,BASE GROUP 04	424.73 SY	\$42.51	\$18,055.27
327-70-1	MILLING EXIST ASPH PAVT, 1" AVG DEPTH	196.18 SY	\$4.30	\$843.57
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	21.58 TN	\$188.86	\$4,075.60
337-7-83	ASPH CONC FC,TRAFFIC C,FC- 12.5,PG 76-22	15.69 TN	\$206.53	\$3,240.46
570-1-1	PERFORMANCE TURF	196.18 SY	\$6.88	\$1,349.72

#### **Erosion Control**

Pay item	Description	<b>Quantity Unit</b>	Unit Price Ext	ended Amount
104-10-3	SEDIMENT BARRIER	2,030.48 LF	\$3.32	\$6,741.19
104-11	FLOATING TURBIDITY BARRIER	16.72 LF	\$15.96	\$266.85
104-12	STAKED TURBIDITY BARRIER- NYL REINF PVC	16.72 LF	\$19.18	\$320.69

	Shoulder Component Total			\$39,839.76
107-2	MOWING	0.40 AC	\$54.82	\$21.93
107-1	LITTER REMOVAL	0.40 AC	\$57.63	\$23.05
104-18	INLET PROTECTION SYSTEM	1.00 EA	\$192.13	\$192.13
104-15	SOIL TRACKING PREVENTION DEVICE	1.00 EA	\$4,709.30	\$4,709.30

## **DRAINAGE COMPONENT**

Pay Items				
Pay item	Description	<b>Quantity Unit</b>	Unit Price Ex	ctended Amount
430-174-124	PIPE CULV, OPT MATL, ROUND,24"SD	32.00 LF	\$278.89	\$8,924.48
430-175-136	PIPE CULV, OPT MATL, ROUND, 36"S/CD	16.00 LF	\$310.89	\$4,974.24
430-984-129	MITERED END SECT, OPTIONAL RD, 24" SD	2.00 EA	\$3,624.19	\$7,248.38
570-1-1	PERFORMANCE TURF	67.55 SY	\$6.88	\$464.74
	Drainage Component Total			\$21,611.84

#### **SIGNING COMPONENT**

Pay Items				
Pay item	Description	<b>Quantity Unit</b>	Unit Price I	Extended Amount
700-1-111	SINGLE COL GRND SIGN AS, F&I GM, <12 SF	1.00 EA	\$543.45	\$543.45
700-1-112	SINGLE COL GRND SIGN AS, F&I GM, 12-20	4.00 EA	\$1,918.21	\$7,672.84
700-1-500	SINGLE COL GRND SIGN AS, RELOCATE	1.00 EA	\$348.10	\$348.10
700-1-600	SINGLE COL GRND SIGN AS, REMOVE	4.00 EA	\$58.36	\$233.44
700-2-113	MULTI- COLUMN SIGN, F&I GM, 20.1-30 SF	1.00 EA	\$6,727.35	\$6,727.35
700-2-600	MULTI- COLUMN GROUND SIGN, REMOVE	1.00 EA	\$1,238.78	\$1,238.78
	Signing Component Total			\$16,763.96

## LIGHTING COMPONENT

<b>Description</b> Multiplier (Nun	nber of Poles)			<b>Value</b> 5
Pay Items				
Pay item	Description	Quantity Unit	<b>Unit Price</b>	Extended Amount
630-2-11	CONDUIT, F& I, OPEN TRENCH	1,000.00 LF	\$24.85	\$24,850.00
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24"	5.00 EA	\$1,708.32	\$8,541.60
715-1-13	LIGHTING CONDUCTORS, F&I, INSUL, NO.4-2	3,000.00 LF	\$6.55	\$19,650.00
715-61-442	LIGHT POLE CMPLT,STD,F&I, 45'MH,12'ARM L	5.00 EA	\$16,000.00	\$80,000.00
715-500-1	POLE CABLE DIST SYS, CONVENTIONAL	5.00 EA	\$1,175.12	\$5,875.60
	Subcomponent Total			\$138,917.20

# **Lighting Component Total**

\$138,917.20

## LANDSCAPING COMPONENT

**User Input Data** 

DescriptionValueCost %10.00Component DetailN

**Landscaping Component Total** 

\$40,483.69

Sequence 15 Total

\$445,320.61

Sequence: 16 WUR - Widen/Resurface, Undivided, Rural

Net Length:

0.284 MI
1,500 LF

**Description:** Ramp B - One lane portion of ramp widening, M&R NB on-ramp

## **EARTHWORK COMPONENT**

## **User Input Data**

Description	Value
Standard Clearing and Grubbing Limits L/R	30.00 / 30.00
Incidental Clearing and Grubbing Area	0.00
Alignment Number	1
Distance	0.124
Top of Structural Course For Begin Section	102.00
Top of Structural Course For End Section	102.00
Horizontal Elevation For Begin Section	100.00
Horizontal Elevation For End Section	100.00
Existing Front Slope L/R	6 to 1 / 6 to 1
Existing Outside Shoulder Cross Slope L/R	6.00 % / 6.00 %
Front Slope L/R	6 to 1 / 6 to 1
Outside Shoulder Cross Slope L/R	6.00 % / 6.00 %
Roadway Cross Slope L/R	2.00 % / 2.00 %

## Pay Items

Pay item	Description	<b>Quantity Unit</b>	Unit Price	Extended Amount
110-1-1	CLEARING & GRUBBING	2.07 AC	\$69,069.09	\$142,973.02
120-2-2	BORROW EXCAVATION, TRUCK MEASURE	54.32 CY	\$53.86	\$2,925.68
	Earthwork Component Total			\$145,898.70

# **ROADWAY COMPONENT**

#### **User Input Data**

Description	Value
Number of Lanes	1
Existing Roadway Pavement Width L/R	7.50 / 0.00
Structural Spread Rate	165
Friction Course Spread Rate	80
Widened Outside Pavement Width L/R	0.00 / 7.50
Widened Structural Spread Rate	275
Widened Friction Course Spread Rate	165

# Pay Items

Pay item	Description	<b>Quantity Unit</b>	Unit Price Ex	ctended Amount
160-4	TYPE B STABILIZATION	2,250.07 SY	\$21.48	\$48,331.50
285-709	OPTIONAL BASE,BASE GROUP 09	1,305.04 SY	\$58.67	\$76,566.70
327-70-5	MILLING EXIST ASPH PAVT, 2" AVG DEPTH	1,250.04 SY	\$7.52	\$9,400.30
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	103.13 TN	\$188.86	\$19,477.13
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	171.88 TN	\$188.86	\$32,461.26
337-7-83	ASPH CONC FC,TRAFFIC C,FC- 12.5,PG 76-22	50.00 TN	\$206.53	\$10,326.50
337-7-83	ASPH CONC FC,TRAFFIC C,FC- 12.5,PG 76-22	103.13 TN	\$206.53	\$21,299.44

## **Pavement Marking Subcomponent**

Description	Value
Include Thermo/Tape/Other	N
Pavement Type	Asphalt
Solid Stripe No. of Paint Applications	2
Solid Stripe No. of Stripes	2
Skip Stripe No. of Paint Applications	2
Skip Stripe No. of Stripes	0

# Pay Items

Pay item	Description	Quantity Unit	Unit Price E	Extended Amount
710-11-101	PAINTED PAVT MARK.STD.WHITE.SOLID.6"	1.14 GM	\$1,448.71	\$1,651.53

# **Peripherals Subcomponent**

Description	Value
Off Road Bike Path(s)	0
Off Road Bike Path Width L/R	0.00 / 0.00
Bike Path Structural Spread Rate	0
Noise Barrier Wall Length	0.00
Noise Barrier Wall Begin Height	0.00
Noise Barrier Wall End Height	0.00

## Pay Items

,				
Pay item	Description	<b>Quantity Unit</b>	Unit Price Ex	tended Amount
339-1	MISCELLANEOUS ASPHALT PAVEMENT	4.50 TN	\$492.00	\$2,214.00
536-1-1	GUARDRAIL- ROADWAY, GEN TL-3	125.00 LF	\$29.57	\$3,696.25
536-85-26	GUARDRAIL END TREATMENT- TYPE CRT	1.00 EA	\$3,616.29	\$3,616.29
	Roadway Component Total			\$229,040.90

## **SHOULDER COMPONENT**

# **User Input Data**

Description	Value
Existing Total Outside Shoulder Width L/R	6.00 / 6.00
New Total Outside Shoulder Width L/R	0.00 / 6.00
Total Outside Shoulder Perf. Turf Width L/R	0.00 / 2.00
Existing Paved Outside Shoulder Width L/R	2.00 / 0.00
New Paved Outside Shoulder Width L/R	0.00 / 4.00
Structural Spread Rate	110
Friction Course Spread Rate	80
Total Width (T) / 8" Overlap (O)	Т
Rumble Strips �No. of Sides	0

Pay item	Description	<b>Quantity Unit</b>	Unit Price E	xtended Amount
285-704	OPTIONAL BASE,BASE GROUP 04	721.69 SY	\$42.51	\$30,679.04
327-70-1	MILLING EXIST ASPH PAVT, 1" AVG DEPTH	333.34 SY	\$4.30	\$1,433.36
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	36.67 TN	\$188.86	\$6,925.50
337-7-83	ASPH CONC FC,TRAFFIC C,FC- 12.5,PG 76-22	26.67 TN	\$206.53	\$5,508.16
570-1-1	PERFORMANCE TURF	333.34 SY	\$6.88	\$2,293.38

#### **Erosion Control**

#### Pay Items

Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
104-10-3	SEDIMENT BARRIER	3,450.11 LF	\$3.32	\$11,454.37
104-11	FLOATING TURBIDITY BARRIER	28.41 LF	\$15.96	\$453.42
104-12	STAKED TURBIDITY BARRIER- NYL REINF PVC	28.41 LF	\$19.18	\$544.90
104-15	SOIL TRACKING PREVENTION DEVICE	1.00 EA	\$4,709.30	\$4,709.30
104-18	INLET PROTECTION SYSTEM	1.00 EA	\$192.13	\$192.13
107-1	LITTER REMOVAL	0.69 AC	\$57.63	\$39.76
107-2	MOWING	0.69 AC	\$54.82	\$37.83
	Shoulder Component Total			\$64,271.15

#### **DRAINAGE COMPONENT**

Pay Items				
Pay item	Description	<b>Quantity Unit</b>	Unit Price E	xtended Amount
430-174-124	PIPE CULV, OPT MATL, ROUND,24"SD	48.00 LF	\$278.89	\$13,386.72
430-175-136	PIPE CULV, OPT MATL, ROUND, 36"S/CD	24.00 LF	\$310.89	\$7,461.36
430-984-129	MITERED END SECT, OPTIONAL RD, 24" SD	3.00 EA	\$3,624.19	\$10,872.57
570-1-1	PERFORMANCE TURF	114.78 SY	\$6.88	\$789.69
	Drainage Component Total			\$32,510.34

## **SIGNING COMPONENT**

Pay Items				
Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	Extended Amount
700-1-111	SINGLE COL GRND SIGN AS, F&I GM, <12 SF	1.00 EA	\$543.45	\$543.45
700-1-112	SINGLE COL GRND SIGN AS, F&I GM, 12-20	6.00 EA	\$1,918.21	\$11,509.26
700-1-500	SINGLE COL GRND SIGN AS, RELOCATE	1.00 EA	\$348.10	\$348.10
700-1-600	SINGLE COL GRND SIGN AS, REMOVE	6.00 EA	\$58.36	\$350.16
700-2-113	MULTI- COLUMN SIGN, F&I GM, 20.1-30 SF	1.00 EA	\$6,727.35	\$6,727.35
700-2-600	MULTI- COLUMN GROUND SIGN, REMOVE	1.00 EA	\$1,238.78	\$1,238.78
	Signing Component Total			\$20,717.10

#### **LIGHTING COMPONENT**

**Rural Lighting Subcomponent** 

DescriptionValueMultiplier (Number of Poles)4

Pay Items

Pay itemDescriptionQuantity UnitUnit PriceExtended Amount630-2-11CONDUIT, F& I, OPEN TRENCH800.00 LF\$24.85\$19,880.00

635-2-11	PULL & SPLICE BOX, F&I, 13" x 24"	4.00 EA	\$1,708.32	\$6,833.28
715-1-13	LIGHTING CONDUCTORS, F&I, INSUL, NO.4-2	2,400.00 LF	\$6.55	\$15,720.00
715-61-442	LIGHT POLE CMPLT,STD,F&I, 45'MH,12'ARM L	4.00 EA	\$16,000.00	\$64,000.00
715-500-1	POLE CABLE DIST SYS, CONVENTIONAL	4.00 EA	\$1,175.12	\$4,700.48
	Subcomponent Total			\$111,133.76
	Lighting Component Total			\$111,133.76

#### LANDSCAPING COMPONENT

User	Input	Data
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DescriptionValueCost %10.00Component DetailN

Landscaping Component Total \$60,357.20

**Sequence 16 Total** \$663,929.15

Sequence: 17 WUR - Widen/Resurface, Undivided, Rural

Net Length:

0.125 MI
660 LF

**Description:** Ramp C - One lane portion of ramp widening, M&R SB off-ramp

#### **EARTHWORK COMPONENT**

#### **User Input Data**

Description	Value
Standard Clearing and Grubbing Limits L/R	30.00 / 30.00
Incidental Clearing and Grubbing Area	0.00
Alignment Number	1
Distance	0.125
Top of Structural Course For Begin Section	102.00
Top of Structural Course For End Section	102.00
Horizontal Elevation For Begin Section	100.00
Horizontal Elevation For End Section	100.00
Existing Front Slope L/R	6 to 1 / 6 to 1
Existing Outside Shoulder Cross Slope L/R	6.00 % / 6.00 %
Front Slope L/R	6 to 1 / 6 to 1
Outside Shoulder Cross Slope L/R	6.00 % / 6.00 %
Roadway Cross Slope L/R	2.00 % / 2.00 %

#### Pay Items

Pay item	Description	<b>Quantity Unit</b>	Unit Price	Extended Amount
110-1-1	CLEARING & GRUBBING	0.91 AC	\$69,069.09	\$62,852.87
120-2-2	BORROW EXCAVATION, TRUCK MEASURE	54.76 CY	\$53.86	\$2,949.37
	Earthwork Component Total			\$65,802.24

## **ROADWAY COMPONENT**

#### **User Input Data**

Description	Value
Number of Lanes	1
Existing Roadway Pavement Width L/R	7.50 / 0.00
Structural Spread Rate	165
Friction Course Spread Rate	80
Widened Outside Pavement Width L/R	0.00 / 7.50
Widened Structural Spread Rate	275
Widened Friction Course Spread Rate	165

## Pay Items

Pay item	Description	<b>Quantity Unit</b>	Unit Price E	xtended Amount
160-4	TYPE B STABILIZATION	1,430.00 SY	\$21.48	\$30,716.40
285-709	OPTIONAL BASE,BASE GROUP 09	574.20 SY	\$58.67	\$33,688.31
327-70-5	MILLING EXIST ASPH PAVT, 2" AVG DEPTH	550.00 SY	\$7.52	\$4,136.00
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	45.38 TN	\$188.86	\$8,570.47
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	75.62 TN	\$188.86	\$14,281.59
337-7-83	ASPH CONC FC,TRAFFIC C,FC- 12.5,PG 76-22	22.00 TN	\$206.53	\$4,543.66
337-7-83	ASPH CONC FC,TRAFFIC C,FC- 12.5,PG 76-22	45.38 TN	\$206.53	\$9,372.33

## **Pavement Marking Subcomponent**

Description	Value
Include Thermo/Tape/Other	N
Pavement Type	Asphalt
Solid Stripe No. of Paint Applications	2
Solid Stripe No. of Stripes	2
Skip Stripe No. of Paint Applications	2
Skip Stripe No. of Stripes	0

#### Pay Items

Pay item	Description	Quantity Unit	Unit Price Ex	tended Amount
710-11-101	PAINTED PAVT MARK.STD.WHITE.SOLID.6"	0.50 GM	\$1,448.71	\$724.36

## **Peripherals Subcomponent**

Description	Value
Off Road Bike Path(s)	0
Off Road Bike Path Width L/R	0.00 / 0.00
Bike Path Structural Spread Rate	0
Noise Barrier Wall Length	0.00
Noise Barrier Wall Begin Height	0.00
Noise Barrier Wall End Height	0.00

## Pay Items

Pay item	Description	<b>Quantity Unit</b>	Unit Price Ex	tended Amount
339-1	MISCELLANEOUS ASPHALT PAVEMENT	9.67 TN	\$492.00	\$4,757.64
536-1-1	GUARDRAIL- ROADWAY, GEN TL-3	290.00 LF	\$29.57	\$8,575.30
	Roadway Component Total			\$119,366.06

#### SHOULDER COMPONENT

## **User Input Data**

Description	Value
Existing Total Outside Shoulder Width L/R	6.00 / 6.00
New Total Outside Shoulder Width L/R	6.00 / 6.00
Total Outside Shoulder Perf. Turf Width L/R	4.00 / 2.00
Existing Paved Outside Shoulder Width L/R	0.00 / 0.00
New Paved Outside Shoulder Width L/R	2.00 / 4.00
Structural Spread Rate	110
Friction Course Spread Rate	80
Total Width (T) / 8" Overlap (O)	Т
Rumble Strips i, ½No. of Sides	0

## Pay Items

Pay item	Description	<b>Quantity Unit</b>	Unit Price Ex	tended Amount
285-704	OPTIONAL BASE,BASE GROUP 04	488.40 SY	\$42.51	\$20,761.88
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	24.20 TN	\$188.86	\$4,570.41
337-7-83	ASPH CONC FC,TRAFFIC C,FC- 12.5,PG 76-22	17.60 TN	\$206.53	\$3,634.93
570-1-1	PERFORMANCE TURF	440.00 SY	\$6.88	\$3,027.20

#### **Erosion Control**

Pay item	Description	Quantity Unit	Unit Price Ex	tended Amount
104-10-3	SEDIMENT BARRIER	1,518.00 LF	\$3.32	\$5,039.76

•		. 0,001 20140 27 0044.0.		
104-11	FLOATING TURBIDITY BARRIER	12.50 LF	\$15.96	\$199.50
104-12	STAKED TURBIDITY BARRIER- NYL REINF PVC	12.50 LF	\$19.18	\$239.75
104-15	SOIL TRACKING PREVENTION DEVICE	1.00 EA	\$4,709.30	\$4,709.30
104-18	INLET PROTECTION SYSTEM	1.00 EA	\$192.13	\$192.13
107-1	LITTER REMOVAL	0.30 AC	\$57.63	\$17.29
107-2	MOWING	0.30 AC	\$54.82	\$16.45
	Shoulder Component Total			\$42,408.60

#### **DRAINAGE COMPONENT**

Pay Items				
Pay item	Description	<b>Quantity Unit</b>	Unit Price Ex	tended Amount
430-174-124	PIPE CULV, OPT MATL, ROUND,24"SD	24.00 LF	\$278.89	\$6,693.36
430-175-136	PIPE CULV, OPT MATL, ROUND, 36"S/CD	8.00 LF	\$310.89	\$2,487.12
430-984-129	MITERED END SECT, OPTIONAL RD, 24" SD	2.00 EA	\$3,624.19	\$7,248.38
570-1-1	PERFORMANCE TURF	50.50 SY	\$6.88	\$347.44
	Drainage Component Total			\$16,776.30

#### SIGNING COMPONENT

Pay Items				
Pay item	Description	<b>Quantity Unit</b>	Unit Price	Extended Amount
700-1-111	SINGLE COL GRND SIGN AS, F&I GM, <12 SF	1.00 EA	\$543.45	\$543.45
700-1-112	SINGLE COL GRND SIGN AS, F&I GM, 12-20	3.00 EA	\$1,918.21	\$5,754.63
700-1-500	SINGLE COL GRND SIGN AS, RELOCATE	1.00 EA	\$348.10	\$348.10
700-1-600	SINGLE COL GRND SIGN AS, REMOVE	3.00 EA	\$58.36	\$175.08
700-2-113	MULTI- COLUMN SIGN, F&I GM, 20.1-30 SF	1.00 EA	\$6,727.35	\$6,727.35
700-2-600	MULTI- COLUMN GROUND SIGN, REMOVE	1.00 EA	\$1,238.78	\$1,238.78
	Signing Component Total			\$14,787.39

## LIGHTING COMPONENT

## **Rural Lighting Subcomponent**

Description Multiplier (Number of Poles)				<b>Value</b> 4
Pay Items				
Pay item	Description	Quantity Unit	<b>Unit Price</b>	Extended Amount
630-2-11	CONDUIT, F& I, OPEN TRENCH	800.00 LF	\$24.85	\$19,880.00
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24"	4.00 EA	\$1,708.32	\$6,833.28
715-1-13	LIGHTING CONDUCTORS, F&I, INSUL, NO.4-2	2,400.00 LF	\$6.55	\$15,720.00
715-61-442	LIGHT POLE CMPLT,STD,F&I, 45'MH,12'ARM L	4.00 EA	\$16,000.00	\$64,000.00

2/12/25, 9:16 AM

715-500-1 POLE CABLE DIST SYS, CONVENTIONAL

4.00 EA \$1,175.12

\$4,700.48 \$111,133.76

**Subcomponent Total** 

Lighting Component Total \$111,133.76

LANDSCAPING COMPONENT

**User Input Data** 

DescriptionValueCost %10.00Component DetailN

**Landscaping Component Total** 

\$37,027.44

Sequence 17 Total

\$407,301.79

2.00 % / 2.00 %

Sequence: 18 WUR - Widen/Resurface, Undivided, Rural

Net Length:

0.099 MI
520 LF

**Description:** Ramp C - One lane portion of ramp M&R NB off-ramp

#### **EARTHWORK COMPONENT**

#### **User Input Data**

Description	Value
Standard Clearing and Grubbing Limits L/R	30.00 / 30.00
Incidental Clearing and Grubbing Area	0.00
Alignment Number	1
Distance	0.099
Top of Structural Course For Begin Section	102.00
Top of Structural Course For End Section	102.00
Horizontal Elevation For Begin Section	100.00
Horizontal Elevation For End Section	100.00
Existing Front Slope L/R	6 to 1 / 6 to 1
Existing Outside Shoulder Cross Slope L/R	6.00 % / 6.00 %
Front Slope L/R	6 to 1 / 6 to 1
Outside Shoulder Cross Slope L/R	6.00 % / 6.00 %

#### Pay Items

Roadway Cross Slope L/R

Pay item	Description	<b>Quantity Unit</b>	Unit Price Ex	xtended Amount
110-1-1	CLEARING & GRUBBING	0.71 AC	\$69,069.09	\$49,039.05
	Earthwork Component Total			\$49,039.05

#### **ROADWAY COMPONENT**

#### **User Input Data**

Description	Value
Number of Lanes	1
Existing Roadway Pavement Width L/R	7.50 / 7.50
Structural Spread Rate	165
Friction Course Spread Rate	80
Widened Outside Pavement Width L/R	0.00 / 0.00
Widened Structural Spread Rate	275
Widened Friction Course Spread Rate	165

#### Pay Items

Pay item	Description	<b>Quantity Unit</b>	Unit Price Ex	tended Amount
160-4	TYPE B STABILIZATION	693.44 SY	\$21.48	\$14,895.09
327-70-5	MILLING EXIST ASPH PAVT, 2" AVG DEPTH	866.80 SY	\$7.52	\$6,518.34
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	71.51 TN	\$188.86	\$13,505.38
337-7-83	ASPH CONC FC,TRAFFIC C,FC- 12.5,PG 76-22	34.67 TN	\$206.53	\$7,160.40

#### **Pavement Marking Subcomponent**

Description	Value
Include Thermo/Tape/Other	N
Pavement Type	Asphalt
Solid Stripe No. of Paint Applications	2
Solid Stripe No. of Stripes	2
Skip Stripe No. of Paint Applications	2
Skip Stripe No. of Stripes	0

## Pay Items

Pay item	Description	Quantity Unit	Unit Price E	xtended Amount
710-11-101	PAINTED PAVT MARK,STD,WHITE,SOLID,6"	0.39 GM	\$1,448.71	\$565.00

## **Peripherals Subcomponent**

Description	Value
Off Road Bike Path(s)	0
Off Road Bike Path Width L/R	0.00 / 0.00
Bike Path Structural Spread Rate	0
Noise Barrier Wall Length	0.00
Noise Barrier Wall Begin Height	0.00
Noise Barrier Wall End Height	0.00

## Pay Items

Pay item	Description	<b>Quantity Unit</b>	Unit Price Ex	tended Amount
339-1	MISCELLANEOUS ASPHALT PAVEMENT	17.33 TN	\$492.00	\$8,526.36
536-1-1	GUARDRAIL- ROADWAY, GEN TL-3	520.00 LF	\$29.57	\$15,376.40
	Roadway Component Total			\$66,546.97

#### SHOULDER COMPONENT

## **User Input Data**

Description	Value
Existing Total Outside Shoulder Width L/R	6.00 / 6.00
New Total Outside Shoulder Width L/R	6.00 / 6.00
Total Outside Shoulder Perf. Turf Width L/R	4.00 / 2.00
Existing Paved Outside Shoulder Width L/R	0.00 / 0.00
New Paved Outside Shoulder Width L/R	2.00 / 4.00
Structural Spread Rate	110
Friction Course Spread Rate	80
Total Width (T) / 8" Overlap (O)	Т
Rumble Strips �No. of Sides	0

## Pay Items

Pay item	Description	<b>Quantity Unit</b>	Unit Price E	Extended Amount
285-704	OPTIONAL BASE,BASE GROUP 04	384.86 SY	\$42.51	\$16,360.40
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	19.07 TN	\$188.86	\$3,601.56
337-7-83	ASPH CONC FC,TRAFFIC C,FC- 12.5,PG 76-22	13.87 TN	\$206.53	\$2,864.57
570-1-1	PERFORMANCE TURF	346.72 SY	\$6.88	\$2,385.43

#### **Erosion Control**

Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	Extended Amount
104-10-3	SEDIMENT BARRIER	1,196.18 LF	\$3.32	\$3,971.32
104-11	FLOATING TURBIDITY BARRIER	9.85 LF	\$15.96	\$157.21
104-12	STAKED TURBIDITY BARRIER- NYL REINF PVC	9.85 LF	\$19.18	\$188.92
104-15	SOIL TRACKING PREVENTION DEVICE	1.00 EA	\$4,709.30	\$4,709.30
104-18	INLET PROTECTION SYSTEM	1.00 EA	\$192.13	\$192.13
107-1	LITTER REMOVAL	0.24 AC	\$57.63	\$13.83

107-2 MOWING 0.24 AC \$54.82 \$13.16

**Shoulder Component Total** 

\$34,457.83

#### **DRAINAGE COMPONENT**

Pay Items				
Pay item	Description	<b>Quantity Unit</b>	Unit Price E	xtended Amount
430-174-124	PIPE CULV, OPT MATL, ROUND,24"SD	16.00 LF	\$278.89	\$4,462.24
430-175-136	PIPE CULV, OPT MATL, ROUND, 36"S/CD	8.00 LF	\$310.89	\$2,487.12
430-984-129	MITERED END SECT, OPTIONAL RD, 24" SD	1.00 EA	\$3,624.19	\$3,624.19
570-1-1	PERFORMANCE TURF	39.79 SY	\$6.88	\$273.76
	Drainage Component Total			\$10,847.31

#### **SIGNING COMPONENT**

Pay Items				
Pay item	Description	<b>Quantity Unit</b>	Unit Price	Extended Amount
700-1-111	SINGLE COL GRND SIGN AS, F&I GM, <12 SF	1.00 EA	\$543.45	\$543.45
700-1-112	SINGLE COL GRND SIGN AS, F&I GM, 12-20	2.00 EA	\$1,918.21	\$3,836.42
700-1-500	SINGLE COL GRND SIGN AS, RELOCATE	1.00 EA	\$348.10	\$348.10
700-1-600	SINGLE COL GRND SIGN AS, REMOVE	2.00 EA	\$58.36	\$116.72
700-2-113	MULTI- COLUMN SIGN, F&I GM, 20.1-30 SF	1.00 EA	\$6,727.35	\$6,727.35
700-2-600	MULTI- COLUMN GROUND SIGN, REMOVE	1.00 EA	\$1,238.78	\$1,238.78
	Signing Component Total			\$12,810.82

#### LIGHTING COMPONENT

Description Multiplier (Num Pay Items	nber of Poles)			<b>Value</b> 3
Pay item	Description	Quantity Unit	<b>Unit Price</b>	<b>Extended Amount</b>
630-2-11	CONDUIT, F& I, OPEN TRENCH	600.00 LF	\$24.85	\$14,910.00
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24"	3.00 EA	\$1,708.32	\$5,124.96
715-1-13	LIGHTING CONDUCTORS, F&I, INSUL, NO.4-2	1,800.00 LF	\$6.55	\$11,790.00
715-61-442	LIGHT POLE CMPLT,STD,F&I, 45'MH,12'ARM L	3.00 EA	\$16,000.00	\$48,000.00
715-500-1	POLE CABLE DIST SYS, CONVENTIONAL	3.00 EA	\$1,175.12	\$3,525.36
	Subcomponent Total			\$83,350.32
	Lighting Component Total			\$83,350.32

## LANDSCAPING COMPONENT

**User Input Data** 

Description	Value
Cost %	10.00
Component Detail	N

Landscaping Component Total	\$25,705.23
Sequence 18 Total	\$282,757.53

Sequence: 19 WUR - Widen/Resurface, Undivided, Rural

Net Length:

0.142 MI
752 LF

**Description:** Ramp C - two lane portion of ramp widening, M&R NB off-ramp

#### **EARTHWORK COMPONENT**

#### **User Input Data**

<b>Description</b> Standard Clearing and Grubbing Limits L/R Incidental Clearing and Grubbing Area	<b>Value</b> 50.00 / 30.00 0.00
Alignment Number	1
Distance	0.142
Top of Structural Course For Begin Section	102.00
Top of Structural Course For End Section	102.00
Horizontal Elevation For Begin Section	100.00
Horizontal Elevation For End Section	100.00
Existing Front Slope L/R	6 to 1 / 6 to 1
Existing Outside Shoulder Cross Slope L/R	6.00 % / 6.00 %
Front Slope L/R	6 to 1 / 6 to 1
Outside Shoulder Cross Slope L/R	6.00 % / 6.00 %
Roadway Cross Slope L/R	2.00 % / 2.00 %

## Pay Items

,				
Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	Extended Amount
110-1-1	CLEARING & GRUBBING	1.38 AC	\$69,069.09	\$95,315.34
120-2-2	BORROW EXCAVATION, TRUCK MEASURE	151.90 CY	\$53.86	\$8,181.33
	Earthwork Component Total			\$103,496.67

## **ROADWAY COMPONENT**

#### **User Input Data**

Description	Value
Number of Lanes	2
Existing Roadway Pavement Width L/R	7.50 / 7.50
Structural Spread Rate	165
Friction Course Spread Rate	80
Widened Outside Pavement Width L/R	0.00 / 9.00
Widened Structural Spread Rate	275
Widened Friction Course Spread Rate	165

## Pay Items

Pay item	Description	<b>Quantity Unit</b>	Unit Price Ex	ctended Amount
160-4	TYPE B STABILIZATION	2,422.70 SY	\$21.48	\$52,039.60
285-709	OPTIONAL BASE,BASE GROUP 09	779.44 SY	\$58.67	\$45,729.74
327-70-5	MILLING EXIST ASPH PAVT, 2" AVG DEPTH	1,253.12 SY	\$7.52	\$9,423.46
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	103.38 TN	\$188.86	\$19,524.35
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	103.38 TN	\$188.86	\$19,524.35
337-7-83	ASPH CONC FC,TRAFFIC C,FC- 12.5,PG 76-22	50.12 TN	\$206.53	\$10,351.28
337-7-83	ASPH CONC FC,TRAFFIC C,FC- 12.5,PG 76-22	62.03 TN	\$206.53	\$12,811.06

## **Pavement Marking Subcomponent**

Description	Value
Include Thermo/Tape/Other	N
Pavement Type	Asphalt
Solid Stripe No. of Paint Applications	2
Solid Stripe No. of Stripes	2
Skip Stripe No. of Paint Applications	2
Skip Stripe No. of Stripes	1

## Pay Items

Pay item	Description	<b>Quantity Unit</b>	Unit Price Ex	tended Amount
706-1-3	RAISED PAVMT MARK, TYPE B	19.00 EA	\$4.96	\$94.24
710-11-101	PAINTED PAVT MARK,STD,WHITE,SOLID,6"	0.57 GM	\$1,448.71	\$825.76
710-11-231	PAINTED PAVT MARK,STD,YELLOW,SKIP,6"	0.28 GM	\$693.74	\$194.25

## **Peripherals Subcomponent**

Description	Value
Off Road Bike Path(s)	0
Off Road Bike Path Width L/R	0.00 / 0.00
Bike Path Structural Spread Rate	0
Noise Barrier Wall Length	0.00
Noise Barrier Wall Begin Height	0.00
Noise Barrier Wall End Height	0.00

#### Pay Items

Pay item	Description	<b>Quantity Unit</b>	Unit Price E	xtended Amount
339-1	MISCELLANEOUS ASPHALT PAVEMENT	20.73 TN	\$492.00	\$10,199.16
536-1-1	GUARDRAIL- ROADWAY, GEN TL-3	612.00 LF	\$29.57	\$18,096.84
536-85-26	GUARDRAIL END TREATMENT- TYPE CRT	1.00 EA	\$3,616.29	\$3,616.29
	Roadway Component Total			\$202,430.38

#### **SHOULDER COMPONENT**

## **User Input Data**

Description	Value
Existing Total Outside Shoulder Width L/R	6.00 / 6.00
New Total Outside Shoulder Width L/R	8.00 / 12.00
Total Outside Shoulder Perf. Turf Width L/R	4.00 / 2.00
Existing Paved Outside Shoulder Width L/R	0.00 / 0.00
New Paved Outside Shoulder Width L/R	4.00 / 10.00
Structural Spread Rate	110
Friction Course Spread Rate	80
Total Width (T) / 8" Overlap (O)	Т
Rumble Strips i; ½No. of Sides	0

Pay item	Description	<b>Quantity Unit</b>	Unit Price Ex	tended Amount
285-704	OPTIONAL BASE, BASE GROUP 04	1,224.72 SY	\$42.51	\$52,062.85
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	64.33 TN	\$188.86	\$12,149.36
337-7-83	ASPH CONC FC,TRAFFIC C,FC- 12.5,PG 76-22	46.78 TN	\$206.53	\$9,661.47
570-1-1	PERFORMANCE TURF	501.25 SY	\$6.88	\$3,448.60

# Erosion Control Pay Items

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Pay item	Description	<b>Quantity Unit</b>	Unit Price Ex	ktended Amount
104-10-3	SEDIMENT BARRIER	1,729.31 LF	\$3.32	\$5,741.31
104-11	FLOATING TURBIDITY BARRIER	14.24 LF	\$15.96	\$227.27
104-12	STAKED TURBIDITY BARRIER- NYL REINF PVC	14.24 LF	\$19.18	\$273.12
104-15	SOIL TRACKING PREVENTION DEVICE	1.00 EA	\$4,709.30	\$4,709.30
104-18	INLET PROTECTION SYSTEM	1.00 EA	\$192.13	\$192.13
107-1	LITTER REMOVAL	0.34 AC	\$57.63	\$19.59
107-2	MOWING	0.34 AC	\$54.82	\$18.64
	Shoulder Component Total			\$88,503.64

#### **DRAINAGE COMPONENT**

Pay Items				
Pay item	Description	<b>Quantity Unit</b>	Unit Price Ex	tended Amount
430-174-124	PIPE CULV, OPT MATL, ROUND,24"SD	24.00 LF	\$278.89	\$6,693.36
430-175-136	PIPE CULV, OPT MATL, ROUND, 36"S/CD	16.00 LF	\$310.89	\$4,974.24
430-984-129	MITERED END SECT, OPTIONAL RD, 24" SD	2.00 EA	\$3,624.19	\$7,248.38
570-1-1	PERFORMANCE TURF	57.53 SY	\$6.88	\$395.81
	Drainage Component Total			\$19,311.79

#### **SIGNING COMPONENT**

Pay Items				
Pay item	Description	<b>Quantity Unit</b>	Unit Price	Extended Amount
700-1-111	SINGLE COL GRND SIGN AS, F&I GM, <12 SF	1.00 EA	\$543.45	\$543.45
700-1-112	SINGLE COL GRND SIGN AS, F&I GM, 12-20	3.00 EA	\$1,918.21	\$5,754.63
700-1-500	SINGLE COL GRND SIGN AS, RELOCATE	1.00 EA	\$348.10	\$348.10
700-1-600	SINGLE COL GRND SIGN AS, REMOVE	3.00 EA	\$58.36	\$175.08
700-2-113	MULTI- COLUMN SIGN, F&I GM, 20.1-30 SF	1.00 EA	\$6,727.35	\$6,727.35
700-2-600	MULTI- COLUMN GROUND SIGN, REMOVE	1.00 EA	\$1,238.78	\$1,238.78
	Signing Component Total			\$14,787.39

#### LIGHTING COMPONENT

**Rural Lighting Subcomponent** 

DescriptionValueMultiplier (Number of Poles)5

Pay Items

Pay itemDescriptionQuantity UnitUnit PriceExtended Amount630-2-11CONDUIT, F& I, OPEN TRENCH1,000.00 LF\$24.85\$24,850.00

635-2-11	PULL & SPLICE BOX, F&I, 13" x 24"	5.00 EA	\$1,708.32	\$8,541.60
715-1-13	LIGHTING CONDUCTORS, F&I, INSUL, NO.4-2	3,000.00 LF	\$6.55	\$19,650.00
715-61-442	LIGHT POLE CMPLT,STD,F&I, 45'MH,12'ARM L	5.00 EA	\$16,000.00	\$80,000.00
715-500-1	POLE CABLE DIST SYS, CONVENTIONAL	5.00 EA	\$1,175.12	\$5,875.60
	Subcomponent Total			\$138,917.20
	Lighting Component Total			\$138,917.20

#### LANDSCAPING COMPONENT

User	Input Data	
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DescriptionValueCost %10.00Component DetailN

Landscaping Component Total \$56,744.71

**Sequence 19 Total** \$624,191.78

Sequence: 20 WUR - Widen/Resurface, Undivided, Rural

Net Length:

0.104 MI
550 LF

Description: Ramp C - three lane ramp portion at intersection of crossroad M&R NB off-ramp

#### **EARTHWORK COMPONENT**

## **User Input Data**

Description	Value
Standard Clearing and Grubbing Limits L/R	40.00 / 30.00
Incidental Clearing and Grubbing Area	0.00
Alignment Number	1
Distance	0.104
Top of Structural Course For Begin Section	102.00
Top of Structural Course For End Section	102.00
Horizontal Elevation For Begin Section	100.00
Horizontal Elevation For End Section	100.00
Existing Front Slope L/R	6 to 1 / 6 to 1
Existing Outside Shoulder Cross Slope L/R	6.00 % / 6.00 %
Front Slope L/R	6 to 1 / 6 to 1
Outside Shoulder Cross Slope L/R	6.00 % / 6.00 %
Roadway Cross Slope L/R	2.00 % / 2.00 %

#### Pay Items

Pay item	Description	<b>Quantity Unit</b>	Unit Price	Extended Amount
110-1-1	CLEARING & GRUBBING	0.88 AC	\$69,069.09	\$60,780.80
120-2-2	BORROW EXCAVATION, TRUCK MEASURE	86.44 CY	\$53.86	\$4,655.66
	Earthwork Component Total			\$65,436.46

## **ROADWAY COMPONENT**

#### **User Input Data**

Description	Value
Number of Lanes	3
Existing Roadway Pavement Width L/R	24.00 / 12.00
Structural Spread Rate	165
Friction Course Spread Rate	80
Widened Outside Pavement Width L/R	0.00 / 6.00
Widened Structural Spread Rate	275
Widened Friction Course Spread Rate	165

## Pay Items

Pay item	Description	<b>Quantity Unit</b>	Unit Price E	xtended Amount
160-4	TYPE B STABILIZATION	1,589.40 SY	\$21.48	\$34,140.31
285-709	OPTIONAL BASE,BASE GROUP 09	386.96 SY	\$58.67	\$22,702.94
327-70-5	MILLING EXIST ASPH PAVT, 2" AVG DEPTH	2,200.70 SY	\$7.52	\$16,549.26
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	181.56 TN	\$188.86	\$34,289.42
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	50.43 TN	\$188.86	\$9,524.21
337-7-83	ASPH CONC FC,TRAFFIC C,FC- 12.5,PG 76-22	88.03 TN	\$206.53	\$18,180.84
337-7-83	ASPH CONC FC,TRAFFIC C,FC- 12.5,PG 76-22	30.26 TN	\$206.53	\$6,249.60

## **Pavement Marking Subcomponent**

Description	Value
Include Thermo/Tape/Other	N
Pavement Type	Asphalt
Solid Stripe No. of Paint Applications	2
Solid Stripe No. of Stripes	2
Skip Stripe No. of Paint Applications	2
Skip Stripe No. of Stripes	2

## Pay Items

Pay item	Description	<b>Quantity Unit</b>	Unit Price Ext	ended Amount
706-1-3	RAISED PAVMT MARK, TYPE B	56.00 EA	\$4.96	\$277.76
710-11-101	PAINTED PAVT MARK,STD,WHITE,SOLID,6"	0.42 GM	\$1,448.71	\$608.46
710-11-231	PAINTED PAVT MARK.STD.YELLOW.SKIP.6"	0.42 GM	\$693.74	\$291.37

## **Peripherals Subcomponent**

Description	Value
Off Road Bike Path(s)	0
Off Road Bike Path Width L/R	0.00 / 0.00
Bike Path Structural Spread Rate	0
Noise Barrier Wall Length	0.00
Noise Barrier Wall Begin Height	0.00
Noise Barrier Wall End Height	0.00

#### Pay Items

Pay item	Description	Quantity Unit	Unit Price E	Extended Amount
339-1	MISCELLANEOUS ASPHALT PAVEMENT	20.73 TN	\$492.00	\$10,199.16
536-1-1	GUARDRAIL- ROADWAY, GEN TL-3	612.00 LF	\$29.57	\$18,096.84
536-85-26	GUARDRAIL END TREATMENT- TYPE CRT	1.00 EA	\$3,616.29	\$3,616.29
	Roadway Component Total			\$174,726.46

#### **SHOULDER COMPONENT**

## **User Input Data**

Description	Value
Existing Total Outside Shoulder Width L/R	6.00 / 6.00
New Total Outside Shoulder Width L/R	8.00 / 12.00
Total Outside Shoulder Perf. Turf Width L/R	4.00 / 2.00
Existing Paved Outside Shoulder Width L/R	0.00 / 0.00
New Paved Outside Shoulder Width L/R	4.00 / 10.00
Structural Spread Rate	110
Friction Course Spread Rate	80
Total Width (T) / 8" Overlap (O)	Т
Rumble Strips ï; ½No. of Sides	0

Pay i	tem Description	Quantity Unit	Unit Price	<b>Extended Amount</b>
285-704	OPTIONAL BASE, BASE GROUP	04 896.18 SY	\$42.51	\$38,096.61
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	47.07 TN	\$188.86	\$8,889.64
337-7-83	ASPH CONC FC,TRAFFIC C,FC- 12.5,PG 76-22	34.23 TN	\$206.53	\$7,069.52
570-1-1	PERFORMANCE TURF	366.78 SY	\$6.88	\$2,523.45

## Erosion Control Pay Items

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Pay item	Description	<b>Quantity Unit</b>	Unit Price E	xtended Amount
104-10-3	SEDIMENT BARRIER	1,265.40 LF	\$3.32	\$4,201.13
104-11	FLOATING TURBIDITY BARRIER	10.42 LF	\$15.96	\$166.30
104-12	STAKED TURBIDITY BARRIER- NYL REINF PVC	10.42 LF	\$19.18	\$199.86
104-15	SOIL TRACKING PREVENTION DEVICE	1.00 EA	\$4,709.30	\$4,709.30
104-18	INLET PROTECTION SYSTEM	1.00 EA	\$192.13	\$192.13
107-1	LITTER REMOVAL	0.25 AC	\$57.63	\$14.41
107-2	MOWING	0.25 AC	\$54.82	\$13.70
	Shoulder Component Total			\$66,076.06

#### **DRAINAGE COMPONENT**

Pay Items				
Pay item	Description	<b>Quantity Unit</b>	Unit Price Ex	ktended Amount
430-174-124	PIPE CULV, OPT MATL, ROUND,24"SD	16.00 LF	\$278.89	\$4,462.24
430-175-136	PIPE CULV, OPT MATL, ROUND, 36"S/CD	8.00 LF	\$310.89	\$2,487.12
430-984-129	MITERED END SECT, OPTIONAL RD, 24" SD	2.00 EA	\$3,624.19	\$7,248.38
570-1-1	PERFORMANCE TURF	42.10 SY	\$6.88	\$289.65
	Drainage Component Total			\$14,487.39

#### **SIGNING COMPONENT**

Pay Items				
Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	Extended Amount
700-1-111	SINGLE COL GRND SIGN AS, F&I GM, <12 SF	1.00 EA	\$543.45	\$543.45
700-1-112	SINGLE COL GRND SIGN AS, F&I GM, 12-20	3.00 EA	\$1,918.21	\$5,754.63
700-1-500	SINGLE COL GRND SIGN AS, RELOCATE	1.00 EA	\$348.10	\$348.10
700-1-600	SINGLE COL GRND SIGN AS, REMOVE	3.00 EA	\$58.36	\$175.08
700-2-113	MULTI- COLUMN SIGN, F&I GM, 20.1-30 SF	1.00 EA	\$6,727.35	\$6,727.35
700-2-600	MULTI- COLUMN GROUND SIGN, REMOVE	1.00 EA	\$1,238.78	\$1,238.78
	Signing Component Total			\$14,787.39

#### LIGHTING COMPONENT

**Rural Lighting Subcomponent** 

DescriptionValueMultiplier (Number of Poles)4

Pay Items

Pay itemDescriptionQuantity UnitUnit PriceExtended Amount630-2-11CONDUIT, F& I, OPEN TRENCH800.00 LF\$24.85\$19,880.00

635-2-11	PULL & SPLICE BOX, F&I, 13" x 24"	4.00 EA	\$1,708.32	\$6,833.28
715-1-13	LIGHTING CONDUCTORS, F&I, INSUL, NO.4-2	2,400.00 LF	\$6.55	\$15,720.00
715-61-442	LIGHT POLE CMPLT,STD,F&I, 45'MH,12'ARM L	4.00 EA	\$16,000.00	\$64,000.00
715-500-1	POLE CABLE DIST SYS, CONVENTIONAL	4.00 EA	\$1,175.12	\$4,700.48
	Subcomponent Total			\$111,133.76
	Lighting Component Total			\$111,133.76

#### LANDSCAPING COMPONENT

User I	nput	Data
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DescriptionValueCost %10.00Component DetailN

Landscaping Component Total \$44,664.75

**Sequence 20 Total** \$491,312.27

Sequence: 21 WUR - Widen/Resurface, Undivided, Rural

Net Length:

0.129 MI
682 LF

**Description:** Ramp D - two lane ramp portion at intersection of crossroad M&R NB off-ramp

#### **EARTHWORK COMPONENT**

## **User Input Data**

Description	Value
Standard Clearing and Grubbing Limits L/R	30.00 / 30.00
Incidental Clearing and Grubbing Area	0.00
Alignment Number	1
Distance	0.129
Top of Structural Course For Begin Section	102.00
Top of Structural Course For End Section	102.00
Horizontal Elevation For Begin Section	100.00
Horizontal Elevation For End Section	100.00
Existing Front Slope L/R	6 to 1 / 6 to 1
Existing Outside Shoulder Cross Slope L/R	6.00 % / 6.00 %
Front Slope L/R	6 to 1 / 6 to 1
Outside Shoulder Cross Slope L/R	6.00 % / 6.00 %
Roadway Cross Slope L/R	2.00 % / 2.00 %

## Pay Items

Pay item	Description	<b>Quantity Unit</b>	Unit Price	Extended Amount
110-1-1	CLEARING & GRUBBING	0.94 AC	\$69,069.09	\$64,924.94
120-2-2	BORROW EXCAVATION, TRUCK MEASURE	54.74 CY	\$53.86	\$2,948.30
	Earthwork Component Total			\$67,873.24

## **ROADWAY COMPONENT**

#### **User Input Data**

Description	Value
Number of Lanes	2
Existing Roadway Pavement Width L/R	12.00 / 12.00
Structural Spread Rate	165
Friction Course Spread Rate	80
Widened Outside Pavement Width L/R	0.00 / 0.00
Widened Structural Spread Rate	275
Widened Friction Course Spread Rate	165

#### Pay Items

Pay item	Description	<b>Quantity Unit</b>	Unit Price Ext	ended Amount
160-4	TYPE B STABILIZATION	1,515.95 SY	\$21.48	\$32,562.61
327-70-5	MILLING EXIST ASPH PAVT, 2" AVG DEPTH	1,819.14 SY	\$7.52	\$13,679.93
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	150.08 TN	\$188.86	\$28,344.11
337-7-83	ASPH CONC FC,TRAFFIC C,FC- 12.5,PG 76-22	72.77 TN	\$206.53	\$15,029.19

#### **Pavement Marking Subcomponent**

Description	Value
Include Thermo/Tape/Other	N
Pavement Type	Asphalt
Solid Stripe No. of Paint Applications	2
Solid Stripe No. of Stripes	2

Skip Stripe No. of Paint Applications 2
Skip Stripe No. of Stripes 1

Pay Items	
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Pay item	Description	<b>Quantity Unit</b>	Unit Price E	Extended Amount
706-1-3	RAISED PAVMT MARK, TYPE B	17.00 EA	\$4.96	\$84.32
710-11-101	PAINTED PAVT MARK,STD,WHITE,SOLID,6"	0.52 GM	\$1,448.71	\$753.33
710-11-231	PAINTED PAVT MARK,STD,YELLOW,SKIP,6"	0.26 GM	\$693.74	\$180.37

## **Peripherals Subcomponent**

Description	Value
Off Road Bike Path(s)	0
Off Road Bike Path Width L/R	0.00 / 0.00
Bike Path Structural Spread Rate	0
Noise Barrier Wall Length	0.00
Noise Barrier Wall Begin Height	0.00
Noise Barrier Wall End Height	0.00

#### Pay Items

,				
Pay item	Description	<b>Quantity Unit</b>	Unit Price I	Extended Amount
339-1	MISCELLANEOUS ASPHALT PAVEMENT	30.40 TN	\$492.00	\$14,956.80
536-1-1	GUARDRAIL- ROADWAY, GEN TL-3	892.00 LF	\$29.57	\$26,376.44
536-85-24	GUARDRAIL END TREATMENT- PARA APP TERM	2.00 EA	\$3,672.36	\$7,344.72
	Roadway Component Total			\$139,311.82

## SHOULDER COMPONENT

## **User Input Data**

Description	Value
Existing Total Outside Shoulder Width L/R	6.00 / 6.00
New Total Outside Shoulder Width L/R	8.00 / 12.00
Total Outside Shoulder Perf. Turf Width L/R	4.00 / 2.00
Existing Paved Outside Shoulder Width L/R	0.00 / 0.00
New Paved Outside Shoulder Width L/R	2.00 / 10.00
Structural Spread Rate	110
Friction Course Spread Rate	80
Total Width (T) / 8" Overlap (O)	T
Rumble Strips i; 1/5No. of Sides	0

#### Pay Items

Pay item	Description	<b>Quantity Unit</b>	Unit Price Ext	tended Amount
285-704	OPTIONAL BASE, BASE GROUP 04	959.59 SY	\$42.51	\$40,792.17
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	50.03 TN	\$188.86	\$9,448.67
337-7-83	ASPH CONC FC,TRAFFIC C,FC- 12.5,PG 76-22	36.38 TN	\$206.53	\$7,513.56
570-1-1	PERFORMANCE TURF	454.78 SY	\$6.88	\$3,128.89

#### **Erosion Control**

Pay item	Description	Quantity Unit	Unit Price Ext	ended Amount
104-10-3	SEDIMENT BARRIER	1,569.00 LF	\$3.32	\$5,209.08

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104-11	FLOATING TURBIDITY BARRIER	12.92 LF	\$15.96	\$206.20
104-12	STAKED TURBIDITY BARRIER- NYL REINF PVC	12.92 LF	\$19.18	\$247.81
104-15	SOIL TRACKING PREVENTION DEVICE	1.00 EA	\$4,709.30	\$4,709.30
104-18	INLET PROTECTION SYSTEM	1.00 EA	\$192.13	\$192.13
107-1	LITTER REMOVAL	0.31 AC	\$57.63	\$17.87
107-2	MOWING	0.31 AC	\$54.82	\$16.99
	Shoulder Component Total			\$71,482.67

#### **DRAINAGE COMPONENT**

Pay Items				
Pay item	Description	<b>Quantity Unit</b>	Unit Price Ex	tended Amount
430-174-124	PIPE CULV, OPT MATL, ROUND,24"SD	24.00 LF	\$278.89	\$6,693.36
430-175-136	PIPE CULV, OPT MATL, ROUND, 36"S/CD	16.00 LF	\$310.89	\$4,974.24
430-984-129	MITERED END SECT, OPTIONAL RD, 24" SD	2.00 EA	\$3,624.19	\$7,248.38
570-1-1	PERFORMANCE TURF	52.20 SY	\$6.88	\$359.14
	Drainage Component Total			\$19,275.12

#### SIGNING COMPONENT

Pay Items				
Pay item	Description	<b>Quantity Unit</b>	Unit Price	Extended Amount
700-1-111	SINGLE COL GRND SIGN AS, F&I GM, <12 SF	1.00 EA	\$543.45	\$543.45
700-1-112	SINGLE COL GRND SIGN AS, F&I GM, 12-20	3.00 EA	\$1,918.21	\$5,754.63
700-1-500	SINGLE COL GRND SIGN AS, RELOCATE	1.00 EA	\$348.10	\$348.10
700-1-600	SINGLE COL GRND SIGN AS, REMOVE	3.00 EA	\$58.36	\$175.08
700-2-113	MULTI- COLUMN SIGN, F&I GM, 20.1-30 SF	1.00 EA	\$6,727.35	\$6,727.35
700-2-600	MULTI- COLUMN GROUND SIGN, REMOVE	1.00 EA	\$1,238.78	\$1,238.78
	Signing Component Total			\$14,787.39

## LIGHTING COMPONENT

## **Rural Lighting Subcomponent**

			Value
ber of Poles)			3
Description	Quantity Unit	<b>Unit Price</b>	<b>Extended Amount</b>
CONDUIT, F& I, OPEN TRENCH	600.00 LF	\$24.85	\$14,910.00
PULL & SPLICE BOX, F&I, 13" x 24"	3.00 EA	\$1,708.32	\$5,124.96
LIGHTING CONDUCTORS, F&I, INSUL, NO.4-2	1,800.00 LF	\$6.55	\$11,790.00
LIGHT POLE CMPLT,STD,F&I, 45'MH,12'ARM L	3.00 EA	\$16,000.00	\$48,000.00
	CONDUIT, F& I, OPEN TRENCH PULL & SPLICE BOX, F&I, 13" x 24" LIGHTING CONDUCTORS, F&I, INSUL, NO.4-2 LIGHT POLE CMPLT,STD,F&I,	Description CONDUIT, F& I, OPEN TRENCH PULL & SPLICE BOX, F&I, 13" x 24"  LIGHTING CONDUCTORS, F&I, INSUL, NO.4-2 LIGHT POLE CMPLT,STD,F&I, 3.00 EA	Description         Quantity Unit         Unit Price           CONDUIT, F& I, OPEN TRENCH         600.00 LF         \$24.85           PULL & SPLICE BOX, F&I, 13" x 24"         3.00 EA         \$1,708.32           LIGHTING CONDUCTORS, F&I, INSUL, NO.4-2         1,800.00 LF         \$6.55           LIGHT POLE CMPLT,STD,F&I, IGHT POLE CMPLT,STD,F,I, IGHT POLE CMPLT,STD,F,I, IGHT POLE CMPLT,STD,F,I, IGHT POLE CMPLT,STD,F,I, I

715-500-1 POLE CABLE DIST SYS, CONVENTIONAL Subcomponent Total

3.00 EA \$1,175.12

\$3,525.36

\$83,350.32

**Lighting Component Total** 

\$83,350.32

#### LANDSCAPING COMPONENT

**User Input Data** 

DescriptionValueCost %10.00Component DetailN

**Landscaping Component Total** 

\$39,608.06

Sequence 21 Total

\$435,688.62

Sequence: 22 WUR - Widen/Resurface, Undivided, Rural

Net Length:

0.070 MI
369 LF

**Description:** Ramp D - One lane portion of ramp widedning, M&R SB on-ramp

#### **EARTHWORK COMPONENT**

#### **User Input Data**

Description	Value
Standard Clearing and Grubbing Limits L/R	30.00 / 30.00
Incidental Clearing and Grubbing Area	0.00
Alignment Number	1
Distance	0.070
Top of Structural Course For Begin Section	102.00
Top of Structural Course For End Section	102.00
Horizontal Elevation For Begin Section	100.00
Horizontal Elevation For End Section	100.00
Existing Front Slope L/R	6 to 1 / 6 to 1
Existing Outside Shoulder Cross Slope L/R	6.00 % / 6.00 %
Front Slope L/R	6 to 1 / 6 to 1
Outside Shoulder Cross Slope L/R	6.00 % / 6.00 %
Roadway Cross Slope L/R	2.00 % / 2.00 %

## Pay Items

Pay item	Description	<b>Quantity Unit</b>	Unit Price	Extended Amount
110-1-1	CLEARING & GRUBBING	0.51 AC	\$69,069.09	\$35,225.24
120-2-2	BORROW EXCAVATION, TRUCK MEASURE	31.90 CY	\$53.86	\$1,718.13
	Earthwork Component Total			\$36,943.37

## **ROADWAY COMPONENT**

#### **User Input Data**

Description	Value
Number of Lanes	1
Existing Roadway Pavement Width L/R	0.00 / 9.00
Structural Spread Rate	165
Friction Course Spread Rate	80
Widened Outside Pavement Width L/R	6.00 / 0.00
Widened Structural Spread Rate	275
Widened Friction Course Spread Rate	165

## Pay Items

Pay item	Description	<b>Quantity Unit</b>	Unit Price E	xtended Amount
160-4	TYPE B STABILIZATION	738.14 SY	\$21.48	\$15,855.25
285-709	OPTIONAL BASE,BASE GROUP 09	259.58 SY	\$58.67	\$15,229.56
327-70-5	MILLING EXIST ASPH PAVT, 2" AVG DEPTH	369.07 SY	\$7.52	\$2,775.41
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	30.45 TN	\$188.86	\$5,750.79
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	33.83 TN	\$188.86	\$6,389.13
337-7-83	ASPH CONC FC,TRAFFIC C,FC- 12.5,PG 76-22	14.76 TN	\$206.53	\$3,048.38
337-7-83	ASPH CONC FC,TRAFFIC C,FC- 12.5,PG 76-22	20.30 TN	\$206.53	\$4,192.56

## **Pavement Marking Subcomponent**

Description	Value
Include Thermo/Tape/Other	N
Pavement Type	Asphalt
Solid Stripe No. of Paint Applications	2
Solid Stripe No. of Stripes	2
Skip Stripe No. of Paint Applications	2
Skip Stripe No. of Stripes	0

#### Pay Items

Pay item	Description	Quantity Unit	Unit Price Ex	ctended Amount
710-11-101	PAINTED PAVT MARK.STD.WHITE.SOLID.6"	0.28 GM	\$1,448.71	\$405.64

## **Peripherals Subcomponent**

Description	Value
Off Road Bike Path(s)	0
Off Road Bike Path Width L/R	0.00 / 0.00
Bike Path Structural Spread Rate	0
Noise Barrier Wall Length	0.00
Noise Barrier Wall Begin Height	0.00
Noise Barrier Wall End Height	0.00

## Pay Items

Pay item	Description	Quantity Unit	Unit Price E	xtended Amount
339-1	MISCELLANEOUS ASPHALT PAVEMENT	16.20 TN	\$492.00	\$7,970.40
536-1-1	GUARDRAIL- ROADWAY, GEN TL-3	476.00 LF	\$29.57	\$14,075.32
536-85-26	GUARDRAIL END TREATMENT- TYPE CRT	1.00 EA	\$3,616.29	\$3,616.29
	Roadway Component Total			\$79,308.73

#### SHOULDER COMPONENT

## **User Input Data**

Description	Value
Existing Total Outside Shoulder Width L/R	6.00 / 6.00
New Total Outside Shoulder Width L/R	6.00 / 6.00
Total Outside Shoulder Perf. Turf Width L/R	4.00 / 2.00
Existing Paved Outside Shoulder Width L/R	0.00 / 0.00
New Paved Outside Shoulder Width L/R	2.00 / 4.00
Structural Spread Rate	110
Friction Course Spread Rate	80
Total Width (T) / 8" Overlap (O)	Т
Rumble Strips �No. of Sides	0

## Pay Items

Pay item	Description	<b>Quantity Unit</b>	Unit Price Ex	tended Amount
285-704	OPTIONAL BASE, BASE GROUP 04	273.11 SY	\$42.51	\$11,609.91
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	13.53 TN	\$188.86	\$2,555.28
337-7-83	ASPH CONC FC,TRAFFIC C,FC- 12.5,PG 76-22	9.84 TN	\$206.53	\$2,032.26
570-1-1	PERFORMANCE TURF	246.05 SY	\$6.88	\$1,692.82

## Erosion Control Pay Items

Pay item	Description	<b>Quantity Unit</b>	Unit Price Ext	ended Amount
104-10-3	SEDIMENT BARRIER	848.87 LF	\$3.32	\$2,818.25
104-11	FLOATING TURBIDITY BARRIER	6.99 LF	\$15.96	\$111.56
104-12	STAKED TURBIDITY BARRIER- NYL REINF PVC	6.99 LF	\$19.18	\$134.07
104-15	SOIL TRACKING PREVENTION DEVICE	1.00 EA	\$4,709.30	\$4,709.30
104-18	INLET PROTECTION SYSTEM	1.00 EA	\$192.13	\$192.13
107-1	LITTER REMOVAL	0.17 AC	\$57.63	\$9.80
107-2	MOWING	0.17 AC	\$54.82	\$9.32
	Shoulder Component Total			\$25,874.70

#### **DRAINAGE COMPONENT**

Pay Items				
Pay item	Description	<b>Quantity Unit</b>	Unit Price E	Extended Amount
430-174-124	PIPE CULV, OPT MATL, ROUND,24"SD	16.00 LF	\$278.89	\$4,462.24
430-175-136	PIPE CULV, OPT MATL, ROUND, 36"S/CD	8.00 LF	\$310.89	\$2,487.12
430-984-129	MITERED END SECT, OPTIONAL RD, 24" SD	1.00 EA	\$3,624.19	\$3,624.19
570-1-1	PERFORMANCE TURF	28.24 SY	\$6.88	\$194.29
	Drainage Component Total			\$10,767.84

#### **SIGNING COMPONENT**

Pay Items				
Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	Extended Amount
700-1-111	SINGLE COL GRND SIGN AS, F&I GM, <12 SF	1.00 EA	\$543.45	\$543.45
700-1-112	SINGLE COL GRND SIGN AS, F&I GM, 12-20	2.00 EA	\$1,918.21	\$3,836.42
700-1-500	SINGLE COL GRND SIGN AS, RELOCATE	1.00 EA	\$348.10	\$348.10
700-1-600	SINGLE COL GRND SIGN AS, REMOVE	2.00 EA	\$58.36	\$116.72
700-2-113	MULTI- COLUMN SIGN, F&I GM, 20.1-30 SF	1.00 EA	\$6,727.35	\$6,727.35
700-2-600	MULTI- COLUMN GROUND SIGN, REMOVE	1.00 EA	\$1,238.78	\$1,238.78
	Signing Component Total			\$12,810.82

## LIGHTING COMPONENT

Description	Value
Multiplier (Number of Poles)	2
Pay Items	

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Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
630-2-11	CONDUIT, F& I, OPEN TRENCH	400.00 LF	\$24.85	\$9,940.00
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24"	2.00 EA	\$1,708.32	\$3,416.64
715-1-13	LIGHTING CONDUCTORS, F&I, INSUL. NO.4-2	1,200.00 LF	\$6.55	\$7,860.00

**Rural Lighting Subcomponent** 

715-61-442	LIGHT POLE CMPLT,STD,F&I, 45'MH,12'ARM L	2.00 EA	\$16,000.00	\$32,000.00
715-500-1	POLE CABLE DIST SYS, CONVENTIONAL	2.00 EA	\$1,175.12	\$2,350.24
	Subcomponent Total  Lighting Component Total			\$55,566.88 \$55,566.88

#### LANDSCAPING COMPONENT

**User Input Data** 

DescriptionValueCost %10.00Component DetailN

Landscaping Component Total \$22,127.23

**Sequence 22 Total** \$243,399.57

Sequence: 23 RSU - Resurfacing, Undivided

Net Length:

0.068 MI
361 LF

**Description:** Crossroad M&R - two lane undivided

#### **ROADWAY COMPONENT**

## **User Input Data**

Description	Value
Number of Lanes	2
Roadway Pavement Width L/R	32.00 / 32.00
Structural Spread Rate	165
Friction Course Spread Rate	165

#### Pay Items

Pay item	Description	Quantity Unit	Unit Price Exte	nded Amount
327-70-5	MILLING EXIST ASPH PAVT, 2" AVG DEPTH	2,568.19 SY	\$7.52	\$19,312.79
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	211.88 TN	\$188.86	\$40,015.66
337-7-83	ASPH CONC FC,TRAFFIC C,FC- 12.5,PG 76-22	211.88 TN	\$206.53	\$43,759.58

#### **Pavement Marking Subcomponent**

Description	Value
Include Thermo/Tape/Other	N
Pavement Type	Asphalt
Solid Stripe No. of Paint Applications	2
Solid Stripe No. of Stripes	2
Skip Stripe No. of Paint Applications	2
Skip Stripe No. of Stripes	1

## Pay Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
706-1-3	RAISED PAVMT MARK, TYPE B	9.00 EA	\$4.96	\$44.64
710-11-101	PAINTED PAVT MARK,STD,WHITE,SOLID,6"	0.27 GM	\$1,448.71	\$391.15
710-11-231	PAINTED PAVT MARK,STD,YELLOW,SKIP,6"	0.14 GM	\$693.74	\$97.12
	Roadway Component Total			\$103,620.94

#### SHOULDER COMPONENT

## **User Input Data**

Description	Value
Total Outside Shoulder Width L/R	4.00 / 4.00
Total Outside Shoulder Perf. Turf Width L/R	0.00 / 0.00
Paved Outside Shoulder Width L/R	4.00 / 4.00
Structural Spread Rate	110
Friction Course Spread Rate	80
Total Width (T) / 8" Overlap (O)	Т
Rumble Strips ï¿⅓No. of Sides	0

Description	Quantity Unit	Unit Price Extended Amount
	Description	Description Quantity Unit

327-70-1	MILLING EXIST ASPH PAVT, 1" AVG DEPTH	321.02 SY	\$4.30	\$1,380.39
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	17.66 TN	\$188.86	\$3,335.27
337-7-83	ASPH CONC FC,TRAFFIC C,FC- 12.5 PG 76-22	12.84 TN	\$206.53	\$2,651.85

## **Erosion Control**

## Pay Items

Pay item	Description	Quantity Unit	Unit Price	xtended Amount
104-11	FLOATING TURBIDITY BARRIER	6.84 LF	\$15.96	\$109.17
104-12	STAKED TURBIDITY BARRIER- NYL REINF PVC	6.84 LF	\$19.18	\$131.19
104-18	INLET PROTECTION SYSTEM	1.00 EA	\$192.13	\$192.13
107-1	LITTER REMOVAL	0.17 AC	\$57.63	\$9.80
107-2	MOWING	0.17 AC	\$54.82	\$9.32
	Shoulder Component Total			\$7,819.12

#### LANDSCAPING COMPONENT

## **User Input Data**

DescriptionValueCost %10.00Component DetailN

**Landscaping Component Total** 

\$11,144.01

**Sequence 23 Total** \$122,584.07

Sequence: 24 RSD - Resurfacing, Divided

Net Length: 0.223 MI 1,178 LF

**Description:** Crossroad M&R - five lane divided

**Special Conditions:** this segment includes a section of 346' at the end of the project limits

#### **ROADWAY COMPONENT**

#### **User Input Data**

Description	Value
Number of Lanes	5
Roadway Pavement Width L/R	24.00 / 36.00
Structural Spread Rate	220
Friction Course Spread Rate	80

## Pay Items

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Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
327-70-5	MILLING EXIST ASPH PAVT, 2" AVG DEPTH	7,853.12 SY	\$7.52	\$59,055.46
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	863.84 TN	\$188.86	\$163,144.82
337-7-25	ASPH CONC FC,INC BIT,FC- 5,PG76-22	314.12 TN	\$247.36	\$77,700.72

#### **Pavement Marking Subcomponent**

Description	Value
Include Thermo/Tape/Other	N
Pavement Type	Asphalt
Solid Stripe No. of Paint Applications	2
Solid Stripe No. of Stripes	4
Skip Stripe No. of Paint Applications	2
Skip Stripe No. of Stripes	3

#### Pay Items

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Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
706-1-3	RAISED PAVMT MARK, TYPE B	120.00 EA	\$4.96	\$595.20
710-11-101	PAINTED PAVT MARK,STD,WHITE,SOLID,6"	1.78 GM	\$1,448.71	\$2,578.70
710-11-131	PAINTED PAVT MARK,STD,WHITE,SKIP, 6"	1.34 GM	\$598.83	\$802.43
	Roadway Component Total			\$303,877.33

#### SHOULDER COMPONENT

#### **User Input Data**

Description	Value
Total Outside Shoulder Width L/R	10.00 / 10.00
Total Outside Shoulder Perf. Turf Width L/R	0.00 / 0.00
Paved Outside Shoulder Width L/R	5.00 / 5.00
Structural Spread Rate	110
Friction Course Spread Rate	80
Total Width (T) / 8" Overlap (O)	Т
Rumble Strips i; ½No. of Sides	0

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
327-70-1	MILLING EXIST ASPH PAVT, 1" AVG DEPTH	1,308.85 SY	\$4.30	\$5,628.06

334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	71.99 TN	\$188.86	\$13,596.03
337-7-25	ASPH CONC FC,INC BIT,FC- 5 PG76-22	52.35 TN	\$247.36	\$12,949.30

#### **Erosion Control**

Pay	Items
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,				
Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
104-11	FLOATING TURBIDITY BARRIER	22.31 LF	\$15.96	\$356.07
104-12	STAKED TURBIDITY BARRIER- NYL REINF PVC	22.31 LF	\$19.18	\$427.91
107-1	LITTER REMOVAL	1.62 AC	\$57.63	\$93.36
107-2	MOWING	1.62 AC	\$54.82	\$88.81
	Shoulder Component Total			\$33,139.54

#### **MEDIAN COMPONENT**

## **User Input Data**

Description	Value
Total Median Width	29.00
Performance Turf Width	25.00
Total Median Shoulder Width L/R	0.00 / 0.00
Paved Median Shoulder Width L/R	0.00 / 0.00
Structural Spread Rate	110
Friction Course Spread Rate	80
Total Width (T) / 8" Overlap (O)	T
Rumble Strips �No. of Sides	0

#### Pay Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
570-1-1	PERFORMANCE TURF	3,272.13 SY	\$6.88	\$22,512.25
	Median Component Total			\$22,512.25

## SIGNALIZATIONS COMPONENT

Signalization 1

DescriptionValueType4 Lane Mast ArmMultiplier1Description

,				
Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
630-2-11	CONDUIT, F& I, OPEN TRENCH	750.00 LF	\$24.85	\$18,637.50
630-2-12	CONDUIT, F& I, DIRECTIONAL BORE	250.00 LF	\$40.59	\$10,147.50
632-7-1	SIGNAL CABLE- NEW OR RECO, FUR & INSTALL	1.00 PI	\$13,923.07	\$13,923.07
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24"	16.00 EA	\$1,708.32	\$27,333.12
639-1-112	ELECTRICAL POWER SRV,F&I,OH,M,PUR BY CON	1.00 AS	\$7,134.25	\$7,134.25
639-2-1	ELECTRICAL SERVICE WIRE, F&I	60.00 LF	\$12.20	\$732.00
649-21-10	STEEL MAST ARM ASSEMBLY, F&I, 60'	4.00 EA	\$96,184.80	\$384,739.20

650-1-14	VEH TRAF SIGNAL,F&I ALUMINUM, 3 S 1 W	12.00 AS	\$1,917.46	\$23,009.52
653-1-11	PEDESTRIAN SIGNAL, F&I LED COUNT, 1 WAY	8.00 AS	\$1,277.10	\$10,216.80
660-1-102	LOOP DETECTOR INDUCTIVE, F&I, TYPE 2	12.00 EA	\$766.00	\$9,192.00
660-2-106	LOOP ASSEMBLY, F&I, TYPE F	12.00 AS	\$1,793.71	\$21,524.52
665-1-11	PEDESTRIAN DETECTOR, F&I, STANDARD	8.00 EA	\$449.78	\$3,598.24
670-5-111	TRAF CNTL ASSEM, F&I, NEMA, 1 PREEMPT	1.00 AS	\$49,929.96	\$49,929.96
700-3-101	SIGN PANEL, F&I GM, UP TO 12 SF	4.00 EA	\$294.26	\$1,177.04
	Signalizations Component Total			\$581,294.72

#### LANDSCAPING COMPONENT

OSCI IIIPUL Data	User	Inpu	ıt Data
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DescriptionValueCost %10.00Component DetailN

Landscaping Component Total

\$94,082.38

Sequence 24 Total

\$1,034,906.22

Sequence: 25 WDU - Widen/Resurface, Divided, Urban

Net Length: 0.433 MI 2,285 LF

**Description:** Crossroad widen/M&R

#### **EARTHWORK COMPONENT**

## **User Input Data**

Description	Value
Standard Clearing and Grubbing Limits L/R	25.00 / 25.00
Incidental Clearing and Grubbing Area	0.00
Alignment Number	1
Distance	0.433
Top of Structural Course For Begin Section	102.00
Top of Structural Course For End Section	102.00
Horizontal Elevation For Begin Section	100.00
Horizontal Elevation For End Section	100.00
Existing Front Slope L/R	6 to 1 / 6 to 1
Existing Median Shoulder Cross Slope L/R	4.00 % / 4.00 %
Existing Outside Shoulder Cross Slope L/R	2.00 % / 2.00 %
Front Slope L/R	6 to 1 / 6 to 1
Median Shoulder Cross Slope L/R	4.00 % / 4.00 %
Outside Shoulder Cross Slope L/R	2.00 % / 2.00 %
Roadway Cross Slope L/R	2.00 % / 2.00 %

#### Pay Items

i ay itoino				
Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
110-1-1	CLEARING & GRUBBING	2.62 AC	\$69,069.09	\$180,961.02
120-2-2	BORROW EXCAVATION, TRUCK MEASURE	6,748.64 CY	\$53.86	\$363,481.75
	Earthwork Component Total			\$544,442.77

#### **ROADWAY COMPONENT**

#### **User Input Data**

Description	Value
Number of Lanes	6
Existing Roadway Pavement Width L/R	36.00 / 24.00
Structural Spread Rate	165
Friction Course Spread Rate	80
Widened Outside Pavement Width L/R	0.00 / 12.00
Widened Inside Pavement Width L/R	0.00 / 0.00
Widened Structural Spread Rate	275
Widened Friction Course Spread Rate	165

Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
160-4	TYPE B STABILIZATION	3,702.00 SY	\$21.48	\$79,518.96
285-709	OPTIONAL BASE,BASE GROUP 09	3,130.70 SY	\$58.67	\$183,678.17
327-70-5	MILLING EXIST ASPH PAVT, 2" AVG DEPTH	15,234.56 SY	\$7.52	\$114,563.89
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	1,256.85 TN	\$188.86	\$237,368.69
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	418.95 TN	\$188.86	\$79,122.90
337-7-83	ASPH CONC FC,TRAFFIC C,FC- 12.5,PG 76-22	609.38 TN	\$206.53	\$125,855.25

337-7-83 ASPH CONC FC,TRAFFIC C,FC-12.5,PG 76-22 251.37 TN \$206.53 \$51,915.45

## **Pavement Marking Subcomponent**

Description	Value
Include Thermo/Tape/Other	N
Pavement Type	Asphalt
Solid Stripe No. of Paint Applications	2
Solid Stripe No. of Stripes	4
Skip Stripe No. of Paint Applications	2
Skip Stripe No. of Stripes	4

#### Pay Items

Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	Extended Amount
706-1-3	RAISED PAVMT MARK, TYPE B	292.00 EA	\$4.96	\$1,448.32
710-11-101	PAINTED PAVT MARK,STD,WHITE,SOLID,6"	3.46 GM	\$1,448.71	\$5,012.54
710-11-131	PAINTED PAVT MARK,STD,WHITE,SKIP, 6"	3.46 GM	\$598.83	\$2,071.95
	Roadway Component Total			\$880,556.12

#### SHOULDER COMPONENT

#### **User Input Data**

Description	Value
Existing Total Outside Shoulder Width L/R	4.00 / 4.00
New Total Outside Shoulder Width L/R	16.75 / 16.75
Total Outside Shoulder Perf. Turf Width L/R	4.50 / 4.50
Sidewalk Width L/R	10.00 / 10.00

## Pay Items

Pay item	Description	<b>Quantity Unit</b>	Unit Price Exte	ended Amount
520-1-10	CONCRETE CURB & GUTTER, TYPE F	2,285.18 LF	\$49.20	\$112,430.86
520-1-10	CONCRETE CURB & GUTTER, TYPE F	2,285.18 LF	\$49.20	\$112,430.86
522-1	CONCRETE SIDEWALK AND DRIVEWAYS, 4"	5,078.19 SY	\$81.67	\$414,735.78
570-1-1	PERFORMANCE TURF	2,285.18 SY	\$6.88	\$15,722.04

## **Erosion Control**

Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
104-10-3	SEDIMENT BARRIER	4,570.37 LF	\$3.32	\$15,173.63
104-11	FLOATING TURBIDITY BARRIER	43.28 LF	\$15.96	\$690.75
104-12	STAKED TURBIDITY BARRIER- NYL REINF PVC	43.28 LF	\$19.18	\$830.11
104-15	SOIL TRACKING PREVENTION DEVICE	1.00 EA	\$4,709.30	\$4,709.30
104-18	INLET PROTECTION SYSTEM	20.00 EA	\$192.13	\$3,842.60
107-1	LITTER REMOVAL	3.77 AC	\$57.63	\$217.27
107-2	MOWING	3.77 AC	\$54.82	\$206.67
	Shoulder Component Total			\$680,989.87

#### **MEDIAN COMPONENT**

**User Input Data** 

Description	Value
Total Median Width	29.00
Performance Turf Width	25.00

i ay itoilio				
Pay item	Description	<b>Quantity Unit</b>	Unit Price Ex	tended Amount
520-1-10	CONCRETE CURB & GUTTER, TYPE F	4,570.37 LF	\$49.20	\$224,862.20
520-5-11	TRAF SEP CONC-TYPE I, 4' WIDE	291.00 LF	\$92.12	\$26,806.92
570-1-1	PERFORMANCE TURF	6,347.73 SY	\$6.88	\$43,672.38
	Median Component Total			\$295,341.50

#### **DRAINAGE COMPONENT**

Pay Items				
Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
425-1-351	INLETS, CURB, TYPE P-5, <10'	16.00 EA	\$9,714.08	\$155,425.28
425-1-451	INLETS, CURB, TYPE J-5, <10'	5.00 EA	\$12,357.67	\$61,788.35
430-175-124	PIPE CULV, OPT MATL, ROUND, 24"S/CD	240.00 LF	\$228.01	\$54,722.40
430-175-136	PIPE CULV, OPT MATL, ROUND, 36"S/CD	72.00 LF	\$310.89	\$22,384.08
570-1-1	PERFORMANCE TURF	131.57 SY	\$6.88	\$905.20
	Drainage Component Total			\$295,225.31

#### **SIGNING COMPONENT**

Pay Items				
Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
700-1-111	SINGLE COL GRND SIGN AS, F&I GM, <12 SF	10.00 EA	\$543.45	\$5,434.50
700-1-112	SINGLE COL GRND SIGN AS, F&I GM, 12-20	1.00 EA	\$1,918.21	\$1,918.21
700-1-500	SINGLE COL GRND SIGN AS, RELOCATE	1.00 EA	\$348.10	\$348.10
700-1-600	SINGLE COL GRND SIGN AS, REMOVE	10.00 EA	\$58.36	\$583.60
700-2-114	MULTI- COLUMN SIGN, F&I GM, 30.1-50 SF	1.00 EA	\$8,985.18	\$8,985.18
700-2-600	MULTI- COLUMN GROUND SIGN, REMOVE	1.00 EA	\$1,238.78	\$1,238.78
X-Items				
Pay item	Description	<b>Quantity Unit</b>	Unit Price	<b>Extended Amount</b>
700-2-116	MULTI- COLUMN SIGN, F&I GM, 100.1-200 SF	4.00 EA	\$17,590.91	\$70,363.64
700-3-106	SIGN PANEL, F&I GM, 101-200 SF	4.00 EA	\$8,215.86	\$32,863.44
700-3-206	SIGN PANEL, F&I OM, 101-200 SF	2.00 EA	\$10,172.19	\$20,344.38
700-4-113	OH STATIC SIGN STR, F&I, C 31- 40 FT	2.00 EA	\$155,279.30	\$310,558.60
	Signing Component Total			\$452,638.43

#### **SIGNALIZATIONS COMPONENT**

Signal	ization	1
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Description	Value
Туре	4 Lane Mast Arm
Multiplier	1
Description	

Pay	ltems
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Pay Items				
Pay item	Description	<b>Quantity Unit</b>	Unit Price	<b>Extended Amount</b>
630-2-11	CONDUIT, F& I, OPEN TRENCH	750.00 LF	\$24.85	\$18,637.50
630-2-12	CONDUIT, F& I, DIRECTIONAL BORE	250.00 LF	\$40.59	\$10,147.50
632-7-1	SIGNAL CABLE- NEW OR RECO, FUR & INSTALL	1.00 PI	\$13,923.07	\$13,923.07
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24"	16.00 EA	\$1,708.32	\$27,333.12
639-1-112	ELECTRICAL POWER SRV,F&I,OH,M,PUR BY CON	1.00 AS	\$7,134.25	\$7,134.25
639-2-1	ELECTRICAL SERVICE WIRE, F&I	60.00 LF	\$12.20	\$732.00
649-21-10	STEEL MAST ARM ASSEMBLY, F&I, 60'	4.00 EA	\$96,184.80	\$384,739.20
650-1-14	VEH TRAF SIGNAL,F&I ALUMINUM, 3 S 1 W	12.00 AS	\$1,917.46	\$23,009.52
653-1-11	PEDESTRIAN SIGNAL, F&I LED COUNT, 1 WAY	8.00 AS	\$1,277.10	\$10,216.80
660-1-102	LOOP DETECTOR INDUCTIVE, F&I, TYPE 2	12.00 EA	\$766.00	\$9,192.00
660-2-106	LOOP ASSEMBLY, F&I, TYPE F	12.00 AS	\$1,793.71	\$21,524.52
665-1-11	PEDESTRIAN DETECTOR, F&I, STANDARD	8.00 EA	\$449.78	\$3,598.24
670-5-111	TRAF CNTL ASSEM, F&I, NEMA, 1 PREEMPT	1.00 AS	\$49,929.96	\$49,929.96
700-3-101	SIGN PANEL, F&I GM, UP TO 12 SF	4.00 EA	\$294.26	\$1,177.04
	Signalizations Component Total			\$581,294.72

#### LIGHTING COMPONENT

## **Conventional Lighting Subcomponent**

<b>Description</b> Spacing				<b>Value</b> MIN
Pay Items				
Pay item	Description	Quantity Unit	<b>Unit Price</b>	<b>Extended Amount</b>
630-2-11	CONDUIT, F& I, OPEN TRENCH	2,285.18 LF	\$24.85	\$56,786.72
630-2-12	CONDUIT, F& I, DIRECTIONAL BORE	453.57 LF	\$40.59	\$18,410.41
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24"	16.00 EA	\$1,708.32	\$27,333.12
715-1-13	LIGHTING CONDUCTORS, F&I, INSUL, NO.4-2	8,346.12 LF	\$6.55	\$54,667.09
715-61-342	LIGHT POLE CMPLT,STD,F&I, 40'MH,12'ARM L	16.00 EA	\$10,451.34	\$167,221.44
715-500-1	POLE CABLE DIST SYS, CONVENTIONAL	16.00 EA	\$1,175.12	\$18,801.92
	Subcomponent Total			\$343,220.70
	Lighting Component Total			\$343,220.70

#### LANDSCAPING COMPONENT

**User Input Data** 

DescriptionValueCost %10.00Component DetailN

**Landscaping Component Total** 

\$363,957.94

Sequence 25 Total

\$4,437,667.36

Sequence: 26 MIS - Miscellaneous Construction

Net Length:

0.000 MI
0 LF

**Description:** 25% unknown for inflation

#### **MISCELLANEOUS COMPONENT**

**EX-Items** 

Pay itemDescriptionQuantity UnitUnit PriceExtended Amount25% UNKNOWN FOR INFLATION1.00 1\$4,225,677.50\$4,225,677.50

Miscellaneous Component Total \$4,225,677.50

**Sequence 26 Total** \$4,225,677.50

Sequence: 27 MIS - Miscellaneous Construction

Net Length:

0.000 MI

0 LF

**Description:** ITS Component

**MISCELLANEOUS COMPONENT** 

**EX-Items** 

Pay item Description Quantity Unit Unit Price Extended Amount

ITS ITS, MOC, 4% OF SUBTOTAL 1.00 1 \$67,285.00 \$67,285.00

Miscellaneous Component Total \$67,285.00

**Sequence 27 Total** \$67,285.00

Date: 2/12/2025 9:14:24 AM

# FDOT Long Range Estimating System - Production R3: Project Details by Sequence Report

Project: 448068-1-22-01 Letting Date: 01/2099

Description: PD&E WIDEN SUNCOAST PKWY(SR589) - S OF VAN DYKE RD TO SR52 (MP13-29)

District: 08 County: 97 TURNPIKE Market Area: 99 Units: English

Contract Class: 3 Lump Sum Project: N Design/Build: N Project Length: 15.979 MI

Project Manager: SHARMA

Version 5 Project Grand Total \$23,665,423.26

Description: Lutz Lake Fern Road

Project Sequences Subtotal			\$19,434,234.10
102-1	Maintenance of Traffic	10.00 %	\$1,943,423.41
101-1	Mobilization	10.00 %	\$2,137,765.75
Project Se	equences Total		\$23,515,423.26
Project Un	knowns	0.00 %	\$0.00
Design/Bu	ild	0.00 %	\$0.00

**Non-Bid Components:** 

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
999-25	INITIAL CONTINGENCY AMOUNT (DO NOT BID)	LS	\$150,000.00	\$150,000.00
Project Non-	Bid Subtotal			\$150,000.00

Version 5 Project Grand Total \$23,665,423.26

Date: 2/12/2025 10:49:22 AM

# FDOT Long Range Estimating System - Production R3: Project Details by Sequence Report

**Project**: 448068-1-22-01 **Letting Date**: 01/2099

Description: PD&E WIDEN SUNCOAST PKWY(SR589) - S OF VAN DYKE RD TO SR52 (MP13-29)

District: 08 County: 97 TURNPIKE Market Area: 99 Units: English

Contract Class: 3 Lump Sum Project: N Design/Build: N Project Length: 15.979 MI

Project Manager: SHARMA

Version 6 Project Grand Total \$43,495,381.10

**Description:** SR 54 ALT-1 TDI

Sequence: 2 WUR - Widen/Resurface, Undivided, Rural

Net Length:

0.273 MI
1,440 LF

Description: Ramp A - SB on three lane section

#### **EARTHWORK COMPONENT**

#### **User Input Data**

Description	Value
Standard Clearing and Grubbing Limits L/R	40.00 / 40.00
Incidental Clearing and Grubbing Area	0.00
Alignment Number	1
Distance	0.273
Top of Structural Course For Begin Section	102.00
Top of Structural Course For End Section	102.00
Horizontal Elevation For Begin Section	100.00
Horizontal Elevation For End Section	100.00
Existing Front Slope L/R	6 to 1 / 6 to 1
Existing Outside Shoulder Cross Slope L/R	6.00 % / 6.00 %
Front Slope L/R	6 to 1 / 6 to 1
Outside Shoulder Cross Slope L/R	6.00 % / 6.00 %
Roadway Cross Slope L/R	2.00 % / 2.00 %

#### Pay Items

Pay item	Description	<b>Quantity Unit</b>	Unit Price Ex	tended Amount
110-1-1	CLEARING & GRUBBING	2.65 AC	\$61,068.42	\$161,831.31
120-2-2	BORROW EXCAVATION, TRUCK MEASURE	71.54 CY	\$53.86	\$3,853.14
	Earthwork Component Total			\$165,684.45

## **ROADWAY COMPONENT**

#### **User Input Data**

Description	Value
Number of Lanes	3
Existing Roadway Pavement Width L/R	12.00 / 12.00
Structural Spread Rate	165
Friction Course Spread Rate	80
Widened Outside Pavement Width L/R	6.00 / 6.00
Widened Structural Spread Rate	275
Widened Friction Course Spread Rate	165

Pay Items				
Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
160-4	TYPE B STABILIZATION	5,119.49 SY	\$21.48	\$109,966.65
285-709	OPTIONAL BASE,BASE GROUP 09	2,025.40 SY	\$58.67	\$118,830.22
327-70-5	MILLING EXIST ASPH PAVT, 2" AVG DEPTH	3,839.62 SY	\$7.52	\$28,873.94
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	316.77 TN	\$188.86	\$59,825.18
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	263.97 TN	\$188.86	\$49,853.37
337-7-83	ASPH CONC FC,TRAFFIC C,FC- 12.5,PG 76-22	153.58 TN	\$206.53	\$31,718.88
337-7-83	ASPH CONC FC,TRAFFIC C,FC- 12.5,PG 76-22	158.38 TN	\$206.53	\$32,710.22

## **Pavement Marking Subcomponent**

Description	Value
Include Thermo/Tape/Other	N
Pavement Type	Asphalt
Solid Stripe No. of Paint Applications	2
Solid Stripe No. of Stripes	2
Skip Stripe No. of Paint Applications	2
Skip Stripe No. of Stripes	2

## Pay Items

Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	Extended Amount
706-1-3	RAISED PAVMT MARK, TYPE B	147.00 EA	\$4.96	\$729.12
710-11-101	PAINTED PAVT MARK,STD,WHITE,SOLID,6"	1.09 GM	\$1,448.71	\$1,579.09
710-11-231	PAINTED PAVT MARK,STD,YELLOW,SKIP,6"	1.09 GM	\$820.00	\$893.80

## **Peripherals Subcomponent**

Description	Value
Off Road Bike Path(s)	0
Off Road Bike Path Width L/R	0.00 / 0.00
Bike Path Structural Spread Rate	0
Noise Barrier Wall Length	0.00
Noise Barrier Wall Begin Height	0.00
Noise Barrier Wall End Height	0.00

Roadway Component Total \$434,980.47

#### SHOULDER COMPONENT

#### **User Input Data**

Description	Value
Existing Total Outside Shoulder Width L/R	8.00 / 12.00
New Total Outside Shoulder Width L/R	8.00 / 12.00
Total Outside Shoulder Perf. Turf Width L/R	4.00 / 2.00
Existing Paved Outside Shoulder Width L/R	0.00 / 0.00
New Paved Outside Shoulder Width L/R	4.00 / 10.00
Structural Spread Rate	110
Friction Course Spread Rate	80
Total Width (T) / 8" Overlap (O)	T
Rumble Strips �No. of Sides	0

Pay Items				
Pay item	Description	<b>Quantity Unit</b>	Unit Price Ext	tended Amount
285-704	OPTIONAL BASE,BASE GROUP 04	2,345.37 SY	\$42.51	\$99,701.68
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	123.19 TN	\$188.86	\$23,265.66
337-7-83	ASPH CONC FC,TRAFFIC C,FC- 12.5,PG 76-22	89.59 TN	\$206.53	\$18,503.02
570-1-1	PERFORMANCE TURF	959.90 SY	\$6.88	\$6,604.11
Erosion Contr	ol			
Pay Items				
Pay item	Description	<b>Quantity Unit</b>	Unit Price Ext	tended Amount
104-10-3	SEDIMENT BARRIER	3,311.67 LF	\$3.32	\$10,994.74
104-11	FLOATING TURBIDITY BARRIER	27.27 LF	\$15.96	\$435.23
104-12	STAKED TURBIDITY BARRIER- NYL REINF PVC	27.27 LF	\$19.18	\$523.04
104-15	SOIL TRACKING PREVENTION DEVICE	1.00 EA	\$4,709.30	\$4,709.30
104-18	INLET PROTECTION SYSTEM	1.00 EA	\$192.13	\$192.13
107-1	LITTER REMOVAL	0.66 AC	\$57.63	\$38.04
107-2	MOWING	0.66 AC	\$88.49	\$58.40

**Shoulder Component Total** 

Pay Items				
Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	Extended Amount
430-174-124	PIPE CULV, OPT MATL, ROUND,24"SD	40.00 LF	\$278.89	\$11,155.60
430-175-136	PIPE CULV, OPT MATL, ROUND, 36"S/CD	24.00 LF	\$310.89	\$7,461.36
430-984-129	MITERED END SECT, OPTIONAL RD, 24" SD	3.00 EA	\$3,624.19	\$10,872.57
570-1-1	PERFORMANCE TURF	110.17 SY	\$6.88	\$757.97
	Drainage Component Total			\$30,247.50

#### **SIGNING COMPONENT**

Pay Items				
Pay item	Description	<b>Quantity Unit</b>	Unit Price Ext	ended Amount
700-1-111	SINGLE COL GRND SIGN AS, F&I GM, <12 SF	1.00 EA	\$533.45	\$533.45
700-1-112	SINGLE COL GRND SIGN AS, F&I GM, 12-20	6.00 EA	\$1,918.21	\$11,509.26
700-1-500	SINGLE COL GRND SIGN AS, RELOCATE	1.00 EA	\$348.10	\$348.10
700-1-600	SINGLE COL GRND SIGN AS, REMOVE	6.00 EA	\$58.36	\$350.16
700-2-113	MULTI- COLUMN SIGN, F&I GM, 20.1-30 SF	1.00 EA	\$6,727.35	\$6,727.35
700-2-600	MULTI- COLUMN GROUND SIGN, REMOVE	1.00 EA	\$1,238.78	\$1,238.78

\$165,025.35

\$20,707.10

#### LIGHTING COMPONENT

Rural Lighting Subcomponent					
Description				Value	
Multiplier (Nun	nber of Poles)			8	
Pay Items					
Pay item	Description	Quantity Unit	Unit Price	Extended Amount	
630-2-11	CONDUIT, F& I, OPEN TRENCH	1,600.00 LF	\$24.85	\$39,760.00	
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24"	8.00 EA	\$1,708.32	\$13,666.56	
715-1-13	LIGHTING CONDUCTORS, F&I, INSUL, NO.4-2	4,800.00 LF	\$6.55	\$31,440.00	
715-61-442	LIGHT POLE CMPLT,STD,F&I, 45'MH,12'ARM L	8.00 EA	\$16,000.00	\$128,000.00	
715-500-1	POLE CABLE DIST SYS, CONVENTIONAL	8.00 EA	\$1,175.12	\$9,400.96	
	Subcomponent Total			\$222,267.52	
	Lighting Component Total			\$222,267.52	

#### ARCHITECTURAL COMPONENT

ARCHITECTURAL COMPONENT					
X-Items					
Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>	
735-74	TOLL PLAZA, SINGLE LOCATION	1.00 LS	\$2,500,000.00	\$2,500,000.00	
	Comment: NEW TOLL GANTRY (med CRAVE)	lian unit cost per			
	Architectural Component Total			\$2,500,000.00	
Sequence 2 T	- otal			\$3,538,912.39	

Sequence: 3 WUR - Widen/Resurface, Undivided, Rural

Net Length:

0.220 MI
1,160 LF

Description: Ramp A - SB on two lane section

#### **EARTHWORK COMPONENT**

#### **User Input Data**

Description Standard Clearing and Grubbing Limits L/R	<b>Value</b> 30.00 / 30.00
Incidental Clearing and Grubbing Area	0.00
Alignment Number	1
Distance	0.220
Top of Structural Course For Begin Section	102.00
Top of Structural Course For End Section	102.00
Horizontal Elevation For Begin Section	100.00
Horizontal Elevation For End Section	100.00
Existing Front Slope L/R	6 to 1 / 6 to 1
Existing Outside Shoulder Cross Slope L/R	6.00 % / 6.00 %
Front Slope L/R	6 to 1 / 6 to 1
Outside Shoulder Cross Slope L/R	6.00 % / 6.00 %
Roadway Cross Slope L/R	2.00 % / 2.00 %

## Pay Items

Pay item	Description	<b>Quantity Unit</b>	Unit Price	Extended Amount
110-1-1	CLEARING & GRUBBING	1.60 AC	\$61,068.42	\$97,709.47
120-2-2	BORROW EXCAVATION, TRUCK MEASURE	14.20 CY	\$53.86	\$764.81
	Earthwork Component Total			\$98,474.28

## **ROADWAY COMPONENT**

#### **User Input Data**

Description	Value
Number of Lanes	2
Existing Roadway Pavement Width L/R	7.50 / 7.50
Structural Spread Rate	165
Friction Course Spread Rate	80
Widened Outside Pavement Width L/R	4.00 / 5.00
Widened Structural Spread Rate	275
Widened Friction Course Spread Rate	165

## Pay Items

Pay item	Description	<b>Quantity Unit</b>	Unit Price Ex	tended Amount
160-4	TYPE B STABILIZATION	3,737.83 SY	\$21.48	\$80,288.59
285-709	OPTIONAL BASE,BASE GROUP 09	1,245.08 SY	\$58.67	\$73,048.84
327-70-5	MILLING EXIST ASPH PAVT, 2" AVG DEPTH	1,933.36 SY	\$7.52	\$14,538.87
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	159.50 TN	\$188.86	\$30,123.17
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	159.50 TN	\$188.86	\$30,123.17
337-7-83	ASPH CONC FC,TRAFFIC C,FC- 12.5,PG 76-22	77.33 TN	\$206.53	\$15,970.96
337-7-83	ASPH CONC FC,TRAFFIC C,FC- 12.5,PG 76-22	95.70 TN	\$206.53	\$19,764.92

## **Pavement Marking Subcomponent**

Description	Value
Include Thermo/Tape/Other	N
Pavement Type	Asphalt
Solid Stripe No. of Paint Applications	2
Solid Stripe No. of Stripes	2
Skip Stripe No. of Paint Applications	2
Skip Stripe No. of Stripes	1

## Pay Items

Pay item	Description	<b>Quantity Unit</b>	Unit Price E	xtended Amount
706-1-3	RAISED PAVMT MARK, TYPE B	30.00 EA	\$4.96	\$148.80
710-11-101	PAINTED PAVT MARK,STD,WHITE,SOLID,6"	0.88 GM	\$1,448.71	\$1,274.86
710-11-231	PAINTED PAVT MARK,STD,YELLOW,SKIP,6"	0.44 GM	\$820.00	\$360.80

## **Peripherals Subcomponent**

Description	Value
Off Road Bike Path(s)	0
Off Road Bike Path Width L/R	0.00 / 0.00
Bike Path Structural Spread Rate	0
Noise Barrier Wall Length	0.00
Noise Barrier Wall Begin Height	0.00
Noise Barrier Wall End Height	0.00

Roadway Component Total \$265,642.98

#### SHOULDER COMPONENT

## **User Input Data**

Description	Value
Existing Total Outside Shoulder Width L/R	8.00 / 12.00
New Total Outside Shoulder Width L/R	8.00 / 12.00
Total Outside Shoulder Perf. Turf Width L/R	4.00 / 2.00
Existing Paved Outside Shoulder Width L/R	0.00 / 0.00
New Paved Outside Shoulder Width L/R	4.00 / 10.00
Structural Spread Rate	110
Friction Course Spread Rate	80
Total Width (T) / 8" Overlap (O)	Т
Rumble Strips �No. of Sides	0

# Pay Items

Pay item	Description	<b>Quantity Unit</b>	Unit Price Ext	tended Amount
285-704	OPTIONAL BASE,BASE GROUP 04	1,889.54 SY	\$42.51	\$80,324.35
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	99.25 TN	\$188.86	\$18,744.36
337-7-83	ASPH CONC FC,TRAFFIC C,FC- 12.5,PG 76-22	72.18 TN	\$206.53	\$14,907.34
570-1-1	PERFORMANCE TURF	773.34 SY	\$6.88	\$5,320.58

#### **Erosion Control**

## Pay Items

Pay item	Description	<b>Quantity Unit</b>	Unit Price Exte	ended Amount
104-10-3	SEDIMENT BARRIER	2,668.04 LF	\$3.32	\$8,857.89
104-11	FLOATING TURBIDITY BARRIER	21.97 LF	\$15.96	\$350.64
104-12	STAKED TURBIDITY BARRIER- NYL REINF PVC	21.97 LF	\$19.18	\$421.38

	Shoulder Component Total			\$133,905.41
107-2	MOWING	0.53 AC	\$88.49	\$46.90
107-1	LITTER REMOVAL	0.53 AC	\$57.63	\$30.54
104-18	INLET PROTECTION SYSTEM	1.00 EA	\$192.13	\$192.13
104-15	SOIL TRACKING PREVENTION DEVICE	1.00 EA	\$4,709.30	\$4,709.30

Pay Items				
Pay item	Description	<b>Quantity Unit</b>	Unit Price I	Extended Amount
430-174-124	PIPE CULV, OPT MATL, ROUND,24"SD	32.00 LF	\$278.89	\$8,924.48
430-175-136	PIPE CULV, OPT MATL, ROUND, 36"S/CD	16.00 LF	\$310.89	\$4,974.24
430-984-129	MITERED END SECT, OPTIONAL RD, 24" SD	3.00 EA	\$3,624.19	\$10,872.57
570-1-1	PERFORMANCE TURF	88.76 SY	\$6.88	\$610.67
	Drainage Component Total			\$25,381.96

#### **SIGNING COMPONENT**

Pay Items				
Pay item	Description	<b>Quantity Unit</b>	Unit Price	Extended Amount
700-1-111	SINGLE COL GRND SIGN AS, F&I GM, <12 SF	1.00 EA	\$533.45	\$533.45
700-1-112	SINGLE COL GRND SIGN AS, F&I GM, 12-20	5.00 EA	\$1,918.21	\$9,591.05
700-1-500	SINGLE COL GRND SIGN AS, RELOCATE	1.00 EA	\$348.10	\$348.10
700-1-600	SINGLE COL GRND SIGN AS, REMOVE	5.00 EA	\$58.36	\$291.80
700-2-113	MULTI- COLUMN SIGN, F&I GM, 20.1-30 SF	1.00 EA	\$6,727.35	\$6,727.35
700-2-600	MULTI- COLUMN GROUND SIGN, REMOVE	1.00 EA	\$1,238.78	\$1,238.78
	Signing Component Total			\$18,730.53

## LIGHTING COMPONENT

<b>Description</b> Multiplier (Nun	nber of Poles)			<b>Value</b> 8
Pay Items				
Pay item	Description	Quantity Unit	<b>Unit Price</b>	Extended Amount
630-2-11	CONDUIT, F& I, OPEN TRENCH	1,600.00 LF	\$24.85	\$39,760.00
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24"	8.00 EA	\$1,708.32	\$13,666.56
715-1-13	LIGHTING CONDUCTORS, F&I, INSUL, NO.4-2	4,800.00 LF	\$6.55	\$31,440.00
715-61-442	LIGHT POLE CMPLT,STD,F&I, 45'MH,12'ARM L	8.00 EA	\$16,000.00	\$128,000.00
715-500-1	POLE CABLE DIST SYS, CONVENTIONAL	8.00 EA	\$1,175.12	\$9,400.96
	Subcomponent Total			\$222,267.52

Lighting Component Total	\$222,267.52
Sequence 3 Total	\$764,402.68

Sequence: 4 NUR - New Construction, Undivided, Rural

Net Length: 0.416 MI 2,198 LF

Description: Ramp B - NB off two lane section

#### **EARTHWORK COMPONENT**

#### **User Input Data**

Description	Value
Standard Clearing and Grubbing Limits L/R	50.00 / 50.00
Incidental Clearing and Grubbing Area	0.00
Alignment Number	1
Distance	0.416
Top of Structural Course For Begin Section	105.00
Top of Structural Course For End Section	105.00
Horizontal Elevation For Begin Section	100.00
Horizontal Elevation For End Section	100.00
Front Slope L/R	6 to 1 / 6 to 1
Outside Shoulder Cross Slope L/R	6.00 % / 6.00 %
Roadway Cross Slope L/R	2 00 % / 2 00 %

## Pay Items

Pay item	Description	<b>Quantity Unit</b>	Unit Price Ex	tended Amount
110-1-1	CLEARING & GRUBBING	5.04 AC	\$61,068.42	\$307,784.84
120-6	EMBANKMENT	22,601.78 CY	\$24.75	\$559,394.06
	Earthwork Component Total			\$867,178.90

#### **ROADWAY COMPONENT**

#### **User Input Data**

Description	Value
Number of Lanes	2
Roadway Pavement Width L/R	12.00 / 12.00
Structural Spread Rate	275
Friction Course Spread Rate	165

#### Pay Items

Pay item	Description	<b>Quantity Unit</b>	Unit Price Ex	tended Amount
160-4	TYPE B STABILIZATION	10,746.09 SY	\$21.48	\$230,826.01
285-709	OPTIONAL BASE,BASE GROUP 09	6,022.70 SY	\$58.67	\$353,351.81
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	805.96 TN	\$188.86	\$152,213.61
337-7-83	ASPH CONC FC,TRAFFIC C,FC- 12.5,PG 76-22	483.57 TN	\$206.53	\$99,871.71

#### **Pavement Marking Subcomponent**

Description	Value
Include Thermo/Tape/Other	N
Pavement Type	Asphalt
Solid Stripe No. of Paint Applications	2
Solid Stripe No. of Stripes	2
Skip Stripe No. of Paint Applications	2
Skip Stripe No. of Stripes	1

#### Pay Items

Pay item Description Quantity Unit Unit Price Extended Amount

706-1-3	RAISED PAVMT MARK, TYPE B	56.00 EA	\$4.96	\$277.76
710-11-101	PAINTED PAVT MARK,STD,WHITE,SOLID,6"	1.67 GM	\$1,448.71	\$2,419.35
710-11-231	PAINTED PAVT MARK STD VELLOW SKIP 6"	0.83 GM	\$820.00	\$680.60

#### **Peripherals Subcomponent**

Description	Value
Off Road Bike Path(s)	0
Off Road Bike Path Width L/R	0.00 / 0.00
Bike Path Structural Spread Rate	0
Noise Barrier Wall Length	0.00
Noise Barrier Wall Begin Height	0.00
Noise Barrier Wall End Height	0.00

## **Roadway Component Total**

\$839,640.85

#### SHOULDER COMPONENT

#### **User Input Data**

Description	Value
Total Outside Shoulder Width L/R	8.00 / 12.00
Total Outside Shoulder Perf. Turf Width L/R	4.00 / 2.00
Paved Outside Shoulder Width L/R	4.00 / 10.00
Structural Spread Rate	110
Friction Course Spread Rate	165
Total Width (T) / 8" Overlap (O)	T
Rumble Strips �No. of Sides	0

# Pay Items

Pay item	Description	<b>Quantity Unit</b>	Unit Price Ex	tended Amount
285-704	OPTIONAL BASE,BASE GROUP 04	3,580.40 SY	\$42.51	\$152,202.80
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	188.06 TN	\$188.86	\$35,517.01
337-7-83	ASPH CONC FC,TRAFFIC C,FC- 12.5,PG 76-22	282.08 TN	\$206.53	\$58,257.98
570-1-1	PERFORMANCE TURF	1,465.38 SY	\$6.88	\$10,081.81

#### **Erosion Control**

#### Pay Items

,				
Pay item	Description	<b>Quantity Unit</b>	Unit Price Ex	tended Amount
104-10-3	SEDIMENT BARRIER	5,714.97 LF	\$3.32	\$18,973.70
104-11	FLOATING TURBIDITY BARRIER	104.08 LF	\$15.96	\$1,661.12
104-12	STAKED TURBIDITY BARRIER- NYL REINF PVC	104.08 LF	\$19.18	\$1,996.25
104-15	SOIL TRACKING PREVENTION DEVICE	1.00 EA	\$4,709.30	\$4,709.30
107-1	LITTER REMOVAL	5.05 AC	\$57.63	\$291.03
107-2	MOWING	5.05 AC	\$88.49	\$446.87
	Shoulder Component Total			\$284,137.87

#### **DRAINAGE COMPONENT**

#### Pay Items

Pay item Description Quantity Unit Unit Price Extended Amount

430-174-124	PIPE CULV, OPT MATL, ROUND,24"SD	336.00 LF	\$278.89	\$93,707.04
430-175-136	PIPE CULV, OPT MATL, ROUND, 36"S/CD	72.00 LF	\$310.89	\$22,384.08
430-984-129	MITERED END SECT, OPTIONAL RD, 24" SD	17.00 EA	\$3,624.19	\$61,611.23
570-1-1	PERFORMANCE TURF	293.08 SY	\$6.88	\$2,016.39
	Drainage Component Total			\$179,718.74

#### **SIGNING COMPONENT**

Pay Items				
Pay item	Description	<b>Quantity Unit</b>	Unit Price Ex	tended Amount
700-1-111	SINGLE COL GRND SIGN AS, F&I GM, <12 SF	1.00 EA	\$533.45	\$533.45
700-1-112	SINGLE COL GRND SIGN AS, F&I GM, 12-20	9.00 EA	\$1,918.21	\$17,263.89
700-2-114	MULTI- COLUMN SIGN, F&I GM, 30.1-50 SF	1.00 EA	\$8,985.18	\$8,985.18
	Signing Component Total			\$26,782.52

#### LIGHTING COMPONENT

		<b>~</b> ·	
Rurai	Liahtina	Subcomponent	

Description				Value
Multiplier (Num	nber of Poles)			13
Pay Items				
Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	Extended Amount
630-2-11	CONDUIT, F& I, OPEN TRENCH	2,600.00 LF	\$24.85	\$64,610.00
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24"	13.00 EA	\$1,708.32	\$22,208.16
715-1-13	LIGHTING CONDUCTORS, F&I, INSUL, NO.4-2	7,800.00 LF	\$6.55	\$51,090.00
715-61-442	LIGHT POLE CMPLT,STD,F&I, 45'MH,12'ARM L	13.00 EA	\$16,000.00	\$208,000.00
715-500-1	POLE CABLE DIST SYS, CONVENTIONAL	13.00 EA	\$1,175.12	\$15,276.56
	Subcomponent Total			\$361,184.72
	Lighting Component Total			\$361,184.72

#### ARCHITECTURAL COMPONENT

	,			
X-Items				
Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
735-74	TOLL PLAZA, SINGLE LOCATION	1.00 LS	\$2,500,000.00	\$2,500,000.00
	Comment: NEW TOLL GANTRY (med CRAVE)	lian unit cost per		
	Architectural Component Total			\$2,500,000.00
Sequence 4 T	<b>Fotal</b>			\$5,058,643.60

Sequence: 5 WUR - Widen/Resurface, Undivided, Rural

Net Length:

0.221 MI
1,165 LF

**Description:** Ramp B - NB off six lane section

#### **EARTHWORK COMPONENT**

#### **User Input Data**

<b>Description</b> Standard Clearing and Grubbing Limits L/R Incidental Clearing and Grubbing Area	<b>Value</b> 0.00 / 24.00 0.00
Alignment Number	1
Distance	0.221
Top of Structural Course For Begin Section	102.00
Top of Structural Course For End Section	102.00
Horizontal Elevation For Begin Section	100.00
Horizontal Elevation For End Section	100.00
Existing Front Slope L/R	6 to 1 / 6 to 1
Existing Outside Shoulder Cross Slope L/R	6.00 % / 6.00 %
Front Slope L/R	6 to 1 / 6 to 1
Outside Shoulder Cross Slope L/R	6.00 % / 6.00 %
Roadway Cross Slope L/R	2.00 % / 2.00 %

## Pay Items

Pay item	Description	<b>Quantity Unit</b>	Unit Price	<b>Extended Amount</b>
110-1-1	CLEARING & GRUBBING	0.64 AC	\$61,068.42	\$39,083.79
120-2-2	BORROW EXCAVATION, TRUCK MEASURE	34.57 CY	\$53.86	\$1,861.94
	Earthwork Component Total			\$40,945.73

## **ROADWAY COMPONENT**

#### **User Input Data**

Description	Value
Number of Lanes	6
Existing Roadway Pavement Width L/R	36.00 / 24.00
Structural Spread Rate	165
Friction Course Spread Rate	80
Widened Outside Pavement Width L/R	0.00 / 12.00
Widened Structural Spread Rate	275
Widened Friction Course Spread Rate	165

## Pay Items

Pay item	Description	<b>Quantity Unit</b>	Unit Price	<b>Extended Amount</b>
160-4	TYPE B STABILIZATION	3,106.05 SY	\$21.48	\$66,717.95
285-709	OPTIONAL BASE,BASE GROUP 09	1,595.73 SY	\$58.67	\$93,621.48
327-70-5	MILLING EXIST ASPH PAVT, 2" AVG DEPTH	7,765.12 SY	\$7.52	\$58,393.70
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	640.62 TN	\$188.86	\$120,987.49
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	213.54 TN	\$188.86	\$40,329.16
337-7-83	ASPH CONC FC,TRAFFIC C,FC- 12.5,PG 76-22	310.60 TN	\$206.53	\$64,148.22
337-7-83	ASPH CONC FC,TRAFFIC C,FC- 12.5,PG 76-22	128.12 TN	\$206.53	\$26,460.62

## **Pavement Marking Subcomponent**

Description	Value
Include Thermo/Tape/Other	N
Pavement Type	Asphalt
Solid Stripe No. of Paint Applications	2
Solid Stripe No. of Stripes	2
Skip Stripe No. of Paint Applications	2
Skip Stripe No. of Stripes	5

#### Pay Items

Pay item	Description	<b>Quantity Unit</b>	Unit Price	Extended Amount
706-1-3	RAISED PAVMT MARK, TYPE B	208.00 EA	\$4.96	\$1,031.68
710-11-101	PAINTED PAVT MARK,STD,WHITE,SOLID,6"	0.88 GM	\$1,448.71	\$1,274.86
710-11-231	PAINTED PAVT MARK,STD,YELLOW,SKIP,6"	2.21 GM	\$820.00	\$1,812.20
	Roadway Component Total			\$474,777.36

#### SHOULDER COMPONENT

## **User Input Data**

Description	Value
Existing Total Outside Shoulder Width L/R	8.00 / 12.00
New Total Outside Shoulder Width L/R	0.00 / 12.00
Total Outside Shoulder Perf. Turf Width L/R	0.00 / 2.00
Existing Paved Outside Shoulder Width L/R	4.00 / 0.00
New Paved Outside Shoulder Width L/R	0.00 / 10.00
Structural Spread Rate	110
Friction Course Spread Rate	80
Total Width (T) / 8" Overlap (O)	Т
Rumble Strips �No. of Sides	0

## Pay Items

Pay item	Description	<b>Quantity Unit</b>	Unit Price	Extended Amount
285-704	OPTIONAL BASE,BASE GROUP 04	1,336.89 SY	\$42.51	\$56,831.19
327-70-1	MILLING EXIST ASPH PAVT, 1" AVG DEPTH	517.67 SY	\$4.30	\$2,225.98
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	71.18 TN	\$188.86	\$13,443.05
337-7-83	ASPH CONC FC,TRAFFIC C,FC- 12.5,PG 76-22	51.77 TN	\$206.53	\$10,692.06
570-1-1	PERFORMANCE TURF	258.84 SY	\$6.88	\$1,780.82

#### **Erosion Control**

# Pay Items

Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
104-10-3	SEDIMENT BARRIER	2,678.97 LF	\$3.32	\$8,894.18
104-11	FLOATING TURBIDITY BARRIER	22.06 LF	\$15.96	\$352.08
104-12	STAKED TURBIDITY BARRIER- NYL REINF PVC	22.06 LF	\$19.18	\$423.11
104-15	SOIL TRACKING PREVENTION DEVICE	1.00 EA	\$4,709.30	\$4,709.30
104-18	INLET PROTECTION SYSTEM	1.00 EA	\$192.13	\$192.13
107-1	LITTER REMOVAL	0.53 AC	\$57.63	\$30.54
107-2	MOWING	0.53 AC	\$88.49	\$46.90

## **Shoulder Component Total**

\$99,621.34

Pay Items				
Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
430-174-124	PIPE CULV, OPT MATL, ROUND,24"SD	40.00 LF	\$278.89	\$11,155.60
430-175-136	PIPE CULV, OPT MATL, ROUND, 36"S/CD	16.00 LF	\$310.89	\$4,974.24
430-984-129	MITERED END SECT, OPTIONAL RD, 24" SD	3.00 EA	\$3,624.19	\$10,872.57
570-1-1	PERFORMANCE TURF	89.12 SY	\$6.88	\$613.15

#### **Retention Basin 1**

Description		Value
Size		.5 AC
Multiplier		1
Depth		6.00
Description	Expand exist pond	

#### Pay Items

i ay items				
Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
110-1-1	CLEARING & GRUBBING	0.50 AC	\$27,000.00	\$13,500.00
120-1	REGULAR EXCAVATION	4,840.00 CY	\$104.30	\$504,812.00
425-1-541	INLETS, DT BOT, TYPE D, <10'	1.00 EA	\$11,392.37	\$11,392.37
425-2-71	MANHOLES, J-7, <10'	1.00 EA	\$12,151.00	\$12,151.00
430-175-142	PIPE CULV, OPT MATL, ROUND, 42"S/CD	56.00 LF	\$654.39	\$36,645.84
430-175-160	PIPE CULV, OPT MATL, ROUND, 60"S/CD	200.00 LF	\$612.49	\$122,498.00
550-10-220	FENCING, TYPE B, 5.1-6.0', STANDARD	600.00 LF	\$81.27	\$48,762.00
550-60-234	FENCE GATE,TYP B,SLIDE/CANT,18.1-20'OPEN	1.00 EA	\$5,256.99	\$5,256.99
570-1-1	PERFORMANCE TURF	2,420.00 SY	\$18.06	\$43,705.20
	Drainage Component Total			\$826,338.96

## **SIGNING COMPONENT**

Pay Items				
Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
700-1-111	SINGLE COL GRND SIGN AS, F&I GM, <12 SF	1.00 EA	\$533.45	\$533.45
700-1-112	SINGLE COL GRND SIGN AS, F&I GM, 12-20	5.00 EA	\$1,918.21	\$9,591.05
700-1-500	SINGLE COL GRND SIGN AS, RELOCATE	1.00 EA	\$348.10	\$348.10
700-1-600	SINGLE COL GRND SIGN AS, REMOVE	5.00 EA	\$58.36	\$291.80
700-2-113	MULTI- COLUMN SIGN, F&I GM, 20.1-30 SF	1.00 EA	\$6,727.35	\$6,727.35
700-2-600	MULTI- COLUMN GROUND SIGN, REMOVE	1.00 EA	\$1,238.78	\$1,238.78
	Signing Component Total			\$18,730.53

#### LIGHTING COMPONENT

Rural Lighting	Subcomponent			
Description				Value
Multiplier (Num	nber of Poles)			9
Pay Items				
Pay item	Description	Quantity Unit	Unit Price	Extended Amount
630-2-11	CONDUIT, F& I, OPEN TRENCH	1,800.00 LF	\$24.85	\$44,730.00
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24"	9.00 EA	\$1,708.32	\$15,374.88
715-1-13	LIGHTING CONDUCTORS, F&I, INSUL, NO.4-2	5,400.00 LF	\$6.55	\$35,370.00
715-61-442	LIGHT POLE CMPLT,STD,F&I, 45'MH,12'ARM L	9.00 EA	\$16,000.00	\$144,000.00
715-500-1	POLE CABLE DIST SYS, CONVENTIONAL	9.00 EA	\$1,175.12	\$10,576.08
	Subcomponent Total			\$250,050.96
	Lighting Component Total			\$250,050.96
Sequence 5 T	- Total			\$1,710,464.88

Sequence: 7 WUR - Widen/Resurface, Undivided, Rural

Net Length:

0.327 MI
1,725 LF

Description: Ramp C - NB on two lane section widening

#### **EARTHWORK COMPONENT**

#### **User Input Data**

Description	Value
Standard Clearing and Grubbing Limits L/R	50.00 / 50.00
Incidental Clearing and Grubbing Area	0.00
Alignment Number	1
Distance	0.327
Top of Structural Course For Begin Section	102.00
Top of Structural Course For End Section	102.00
Horizontal Elevation For Begin Section	100.00
Horizontal Elevation For End Section	100.00
Existing Front Slope L/R	6 to 1 / 6 to 1
Existing Outside Shoulder Cross Slope L/R	6.00 % / 6.00 %
Front Slope L/R	6 to 1 / 6 to 1
Outside Shoulder Cross Slope L/R	6.00 % / 6.00 %
Roadway Cross Slope L/R	2.00 % / 2.00 %

#### Pay Items

Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
110-1-1	CLEARING & GRUBBING	3.96 AC	\$61,068.42	\$241,830.94
	Earthwork Component Total			\$241.830.94

#### **ROADWAY COMPONENT**

#### **User Input Data**

Description	Value
Number of Lanes	2
Existing Roadway Pavement Width L/R	7.50 / 7.50
Structural Spread Rate	165
Friction Course Spread Rate	80
Widened Outside Pavement Width L/R	0.00 / 9.00
Widened Structural Spread Rate	275
Widened Friction Course Spread Rate	165

#### Pay Items

Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
160-4	TYPE B STABILIZATION	5,558.26 SY	\$21.48	\$119,391.42
285-709	OPTIONAL BASE,BASE GROUP 09	1,788.23 SY	\$58.67	\$104,915.45
327-70-5	MILLING EXIST ASPH PAVT, 2" AVG DEPTH	2,874.96 SY	\$7.52	\$21,619.70
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	237.18 TN	\$188.86	\$44,793.81
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	237.18 TN	\$188.86	\$44,793.81
337-7-83	ASPH CONC FC,TRAFFIC C,FC- 12.5,PG 76-22	115.00 TN	\$206.53	\$23,750.95
337-7-83	ASPH CONC FC,TRAFFIC C,FC- 12.5,PG 76-22	142.31 TN	\$206.53	\$29,391.28

#### **Pavement Marking Subcomponent**

**Description** Value

Include Thermo/Tape/Other	N
Pavement Type	Asphalt
Solid Stripe No. of Paint Applications	2
Solid Stripe No. of Stripes	2
Skip Stripe No. of Paint Applications	2
Skip Stripe No. of Stripes	1

## Pay Items

Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
706-1-3	RAISED PAVMT MARK, TYPE B	44.00 EA	\$4.96	\$218.24
710-11-101	PAINTED PAVT MARK,STD,WHITE,SOLID,6"	1.31 GM	\$1,448.71	\$1,897.81
710-11-231	PAINTED PAVT MARK,STD,YELLOW,SKIP,6"	0.65 GM	\$820.00	\$533.00

#### **Peripherals Subcomponent**

Description	Value
Off Road Bike Path(s)	0
Off Road Bike Path Width L/R	0.00 / 0.00
Bike Path Structural Spread Rate	0
Noise Barrier Wall Length	0.00
Noise Barrier Wall Begin Height	0.00
Noise Barrier Wall End Height	0.00

#### **Roadway Component Total**

\$391,305.47

#### SHOULDER COMPONENT

#### **User Input Data**

Description	Value
Existing Total Outside Shoulder Width L/R	8.00 / 12.00
New Total Outside Shoulder Width L/R	8.00 / 12.00
Total Outside Shoulder Perf. Turf Width L/R	4.00 / 2.00
Existing Paved Outside Shoulder Width L/R	0.00 / 0.00
New Paved Outside Shoulder Width L/R	4.00 / 10.00
Structural Spread Rate	110
Friction Course Spread Rate	80
Total Width (T) / 8" Overlap (O)	Т
Rumble Strips �No. of Sides	0

#### Pay Items

,				
Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
285-704	OPTIONAL BASE,BASE GROUP 04	2,809.79 SY	\$42.51	\$119,444.17
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	147.58 TN	\$188.86	\$27,871.96
337-7-83	ASPH CONC FC,TRAFFIC C,FC- 12.5,PG 76-22	107.33 TN	\$206.53	\$22,166.86
570-1-1	PERFORMANCE TURF	1,149.98 SY	\$6.88	\$7,911.86

## **Erosion Control**

#### Pay Items

Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
104-10-3	SEDIMENT BARRIER	3,967.44 LF	\$3.32	\$13,171.90
104-11	FLOATING TURBIDITY BARRIER	32.67 LF	\$15.96	\$521.41
104-12	STAKED TURBIDITY BARRIER- NYI REINE PVC	32.67 LF	\$19.18	\$626.61

	Shoulder Component Total			\$196,731.64
107-2	MOWING	0.79 AC	\$88.49	\$69.91
107-1	LITTER REMOVAL	0.79 AC	\$57.63	\$45.53
104-18	INLET PROTECTION SYSTEM	1.00 EA	\$192.13	\$192.13
104-15	SOIL TRACKING PREVENTION DEVICE	1.00 EA	\$4,709.30	\$4,709.30

Pay Items				
Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
430-174-124	PIPE CULV, OPT MATL, ROUND,24"SD	56.00 LF	\$278.89	\$15,617.84
430-175-136	PIPE CULV, OPT MATL, ROUND, 36"S/CD	24.00 LF	\$310.89	\$7,461.36
430-984-129	MITERED END SECT, OPTIONAL RD, 24" SD	4.00 EA	\$3,624.19	\$14,496.76
570-1-1	PERFORMANCE TURF	131.99 SY	\$6.88	\$908.09
	Drainage Component Total			\$38,484.05

#### **SIGNING COMPONENT**

Pay Items				
Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
700-1-111	SINGLE COL GRND SIGN AS, F&I GM, <12 SF	1.00 EA	\$533.45	\$533.45
700-1-112	SINGLE COL GRND SIGN AS, F&I GM, 12-20	7.00 EA	\$1,918.21	\$13,427.47
700-1-500	SINGLE COL GRND SIGN AS, RELOCATE	1.00 EA	\$348.10	\$348.10
700-1-600	SINGLE COL GRND SIGN AS, REMOVE	7.00 EA	\$58.36	\$408.52
700-2-113	MULTI- COLUMN SIGN, F&I GM, 20.1-30 SF	1.00 EA	\$6,727.35	\$6,727.35
700-2-600	MULTI- COLUMN GROUND SIGN, REMOVE	1.00 EA	\$1,238.78	\$1,238.78
	Signing Component Total			\$22,683.67

## LIGHTING COMPONENT

## **Rural Lighting Subcomponent**

<b>Description</b> Multiplier (Nun	nber of Poles)			<b>Value</b> 12
Pay Items				
Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
630-2-11	CONDUIT, F& I, OPEN TRENCH	2,400.00 LF	\$24.85	\$59,640.00
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24"	12.00 EA	\$1,708.32	\$20,499.84
715-1-13	LIGHTING CONDUCTORS, F&I, INSUL, NO.4-2	7,200.00 LF	\$6.55	\$47,160.00
715-61-442	LIGHT POLE CMPLT,STD,F&I, 45'MH,12'ARM L	12.00 EA	\$16,000.00	\$192,000.00
715-500-1	POLE CABLE DIST SYS, CONVENTIONAL	12.00 EA	\$1,175.12	\$14,101.44
	Subcomponent Total			\$333,401.28

Lighting Component Total	\$333,401.28
Sequence 7 Total	\$1,224,437.05

Sequence: 8 WUR - Widen/Resurface, Undivided, Rural

Net Length:

0.162 MI
857 LF

Description: Ramp C - NB on one lane section widening

#### **EARTHWORK COMPONENT**

#### **User Input Data**

Description	Value
Standard Clearing and Grubbing Limits L/R	30.00 / 30.00
Incidental Clearing and Grubbing Area	0.00
Alignment Number	1
Distance	0.162
Top of Structural Course For Begin Section	102.00
Top of Structural Course For End Section	102.00
Horizontal Elevation For Begin Section	100.00
Horizontal Elevation For End Section	100.00
Existing Front Slope L/R	6 to 1 / 6 to 1
Existing Outside Shoulder Cross Slope L/R	6.00 % / 6.00 %
Front Slope L/R	6 to 1 / 6 to 1
Outside Shoulder Cross Slope L/R	6.00 % / 6.00 %
Roadway Cross Slope L/R	2.00 % / 2.00 %

#### Pay Items

Pay item	Description	<b>Quantity Unit</b>	Unit Price	Extended Amount
110-1-1	CLEARING & GRUBBING	1.18 AC	\$61,068.42	\$72,060.74
120-2-2	BORROW EXCAVATION, TRUCK MEASURE	47.20 CY	\$53.86	\$2,542.19
	Earthwork Component Total			\$74,602.93

## **ROADWAY COMPONENT**

#### **User Input Data**

Description	Value
Number of Lanes	1
Existing Roadway Pavement Width L/R	7.50 / 1.50
Structural Spread Rate	165
Friction Course Spread Rate	80
Widened Outside Pavement Width L/R	0.00 / 6.00
Widened Structural Spread Rate	275
Widened Friction Course Spread Rate	165

# Pay Items

Pay item	Description	<b>Quantity Unit</b>	Unit Price E	xtended Amount
160-4	TYPE B STABILIZATION	1,142.59 SY	\$21.48	\$24,542.83
285-709	OPTIONAL BASE,BASE GROUP 09	602.72 SY	\$58.67	\$35,361.58
327-70-5	MILLING EXIST ASPH PAVT, 2" AVG DEPTH	856.94 SY	\$7.52	\$6,444.19
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	70.70 TN	\$188.86	\$13,352.40
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	78.55 TN	\$188.86	\$14,834.95
337-7-83	ASPH CONC FC,TRAFFIC C,FC- 12.5,PG 76-22	34.28 TN	\$206.53	\$7,079.85
337-7-83	ASPH CONC FC,TRAFFIC C,FC- 12.5,PG 76-22	47.13 TN	\$206.53	\$9,733.76

## **Pavement Marking Subcomponent**

Description	Value
Include Thermo/Tape/Other	N
Pavement Type	Asphalt
Solid Stripe No. of Paint Applications	2
Solid Stripe No. of Stripes	2
Skip Stripe No. of Paint Applications	2
Skip Stripe No. of Stripes	0

## Pay Items

Pay item	Description	Quantity Unit	Unit Price Ex	tended Amount
710-11-101	PAINTED PAVT MARK.STD.WHITE.SOLID.6"	0.65 GM	\$1,448.71	\$941.66

## **Peripherals Subcomponent**

Description	Value
Off Road Bike Path(s)	0
Off Road Bike Path Width L/R	0.00 / 0.00
Bike Path Structural Spread Rate	0
Noise Barrier Wall Length	0.00
Noise Barrier Wall Begin Height	0.00
Noise Barrier Wall End Height	0.00

Roadway Component Total \$112,291.22

#### SHOULDER COMPONENT

## **User Input Data**

Description	Value
Existing Total Outside Shoulder Width L/R	6.00 / 6.00
New Total Outside Shoulder Width L/R	0.00 / 6.00
Total Outside Shoulder Perf. Turf Width L/R	0.00 / 2.00
Existing Paved Outside Shoulder Width L/R	2.00 / 0.00
New Paved Outside Shoulder Width L/R	0.00 / 4.00
Structural Spread Rate	110
Friction Course Spread Rate	80
Total Width (T) / 8" Overlap (O)	Т
Rumble Strips �No. of Sides	0

## Pay Items

Pay item	Description	<b>Quantity Unit</b>	Unit Price E	xtended Amount
285-704	OPTIONAL BASE,BASE GROUP 04	412.29 SY	\$42.51	\$17,526.45
327-70-1	MILLING EXIST ASPH PAVT, 1" AVG DEPTH	190.43 SY	\$4.30	\$818.85
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	20.95 TN	\$188.86	\$3,956.62
337-7-83	ASPH CONC FC,TRAFFIC C,FC- 12.5,PG 76-22	15.23 TN	\$206.53	\$3,145.45
570-1-1	PERFORMANCE TURF	190.43 SY	\$6.88	\$1,310.16

## **Erosion Control**

## Pay Items

Pay item	Description	<b>Quantity Unit</b>	Unit Price Exte	ended Amount
104-10-3	SEDIMENT BARRIER	1,970.97 LF	\$3.32	\$6,543.62
104-11	FLOATING TURBIDITY BARRIER	16.23 LF	\$15.96	\$259.03
104-12	STAKED TURBIDITY BARRIER- NYL REINF PVC	16.23 LF	\$19.18	\$311.29

104-15	SOIL TRACKING PREVENTION DEVICE	1.00 EA	\$4,709.30	\$4,709.30
104-18	INLET PROTECTION SYSTEM	1.00 EA	\$192.13	\$192.13
107-1	LITTER REMOVAL	0.39 AC	\$57.63	\$22.48
107-2	MOWING	0.39 AC	\$88.49	\$34.51
	Shoulder Component Total			\$38,829.89

Pay Items				
Pay item	Description	<b>Quantity Unit</b>	Unit Price Ex	tended Amount
430-174-124	PIPE CULV, OPT MATL, ROUND,24"SD	32.00 LF	\$278.89	\$8,924.48
430-175-136	PIPE CULV, OPT MATL, ROUND, 36"S/CD	16.00 LF	\$310.89	\$4,974.24
430-984-129	MITERED END SECT, OPTIONAL RD, 24" SD	2.00 EA	\$3,624.19	\$7,248.38
570-1-1	PERFORMANCE TURF	65.57 SY	\$6.88	\$451.12
	Drainage Component Total			\$21,598.22

#### **SIGNING COMPONENT**

Pay Items				
Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	Extended Amount
700-1-111	SINGLE COL GRND SIGN AS, F&I GM, <12 SF	1.00 EA	\$533.45	\$533.45
700-1-112	SINGLE COL GRND SIGN AS, F&I GM, 12-20	4.00 EA	\$1,918.21	\$7,672.84
700-1-500	SINGLE COL GRND SIGN AS, RELOCATE	1.00 EA	\$348.10	\$348.10
700-1-600	SINGLE COL GRND SIGN AS, REMOVE	4.00 EA	\$58.36	\$233.44
700-2-113	MULTI- COLUMN SIGN, F&I GM, 20.1-30 SF	1.00 EA	\$6,727.35	\$6,727.35
700-2-600	MULTI- COLUMN GROUND SIGN, REMOVE	1.00 EA	\$1,238.78	\$1,238.78
	Signing Component Total			\$16,753.96

## LIGHTING COMPONENT

<b>Description</b> Multiplier (Nun	nber of Poles)			<b>Value</b> 4
Pay Items				
Pay item	Description	Quantity Unit	<b>Unit Price</b>	Extended Amount
630-2-11	CONDUIT, F& I, OPEN TRENCH	800.00 LF	\$24.85	\$19,880.00
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24"	4.00 EA	\$1,708.32	\$6,833.28
715-1-13	LIGHTING CONDUCTORS, F&I, INSUL, NO.4-2	2,400.00 LF	\$6.55	\$15,720.00
715-61-442	LIGHT POLE CMPLT,STD,F&I, 45'MH,12'ARM L	4.00 EA	\$16,000.00	\$64,000.00
715-500-1	POLE CABLE DIST SYS, CONVENTIONAL	4.00 EA	\$1,175.12	\$4,700.48
	Subcomponent Total			\$111,133.76

Lighting Component Total	\$111,133.76
Sequence 8 Total	\$375,209.98

Sequence: 9 WUR - Widen/Resurface, Undivided, Rural

Net Length:

0.155 MI
820 LF

Description: Ramp D - SB off one lane section

#### **EARTHWORK COMPONENT**

#### **User Input Data**

Description	Value
Standard Clearing and Grubbing Limits L/R	30.00 / 30.00
Incidental Clearing and Grubbing Area	0.00
Alignment Number	1
Distance	0.155
Top of Structural Course For Begin Section	102.00
Top of Structural Course For End Section	102.00
Horizontal Elevation For Begin Section	100.00
Horizontal Elevation For End Section	100.00
Existing Front Slope L/R	6 to 1 / 6 to 1
Existing Outside Shoulder Cross Slope L/R	6.00 % / 6.00 %
Front Slope L/R	6 to 1 / 6 to 1
Outside Shoulder Cross Slope L/R	6.00 % / 6.00 %
Roadway Cross Slope L/R	2.00 % / 2.00 %

#### Pay Items

Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
110-1-1	CLEARING & GRUBBING	1.13 AC	\$61,068.42	\$69,007.31
	Earthwork Component Total			\$69,007.31

#### **ROADWAY COMPONENT**

#### **User Input Data**

Description	Value
Number of Lanes	1
Existing Roadway Pavement Width L/R	7.50 / 7.50
Structural Spread Rate	165
Friction Course Spread Rate	80
Widened Outside Pavement Width L/R	0.00 / 0.00
Widened Structural Spread Rate	275
Widened Friction Course Spread Rate	165

#### Pay Items

Pay item	Description	<b>Quantity Unit</b>	Unit Price Ex	tended Amount
160-4	TYPE B STABILIZATION	1,093.31 SY	\$21.48	\$23,484.30
327-70-5	MILLING EXIST ASPH PAVT, 2" AVG DEPTH	1,366.64 SY	\$7.52	\$10,277.13
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	112.75 TN	\$188.86	\$21,293.96
337-7-83	ASPH CONC FC,TRAFFIC C,FC- 12.5,PG 76-22	54.67 TN	\$206.53	\$11,291.00

#### **Pavement Marking Subcomponent**

Description	Value
Include Thermo/Tape/Other	N
Pavement Type	Asphalt
Solid Stripe No. of Paint Applications	2
Solid Stripe No. of Stripes	2
Skip Stripe No. of Paint Applications	2
Skip Stripe No. of Stripes	0

Pav nems	Pav	Items
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Pay item	Description	Quantity Unit	Unit Price Ex	ktended Amount
710-11-101	PAINTED PAVT MARK,STD,WHITE,SOLID,6"	0.62 GM	\$1,448.71	\$898.20

## **Peripherals Subcomponent**

Description	Value
Off Road Bike Path(s)	0
Off Road Bike Path Width L/R	0.00 / 0.00
Bike Path Structural Spread Rate	0
Noise Barrier Wall Length	0.00
Noise Barrier Wall Begin Height	0.00
Noise Barrier Wall End Height	0.00

Roadway Component Total \$67,244.60

#### SHOULDER COMPONENT

## **User Input Data**

Description	Value
Existing Total Outside Shoulder Width L/R	6.00 / 6.00
New Total Outside Shoulder Width L/R	6.00 / 6.00
Total Outside Shoulder Perf. Turf Width L/R	4.00 / 2.00
Existing Paved Outside Shoulder Width L/R	0.00 / 0.00
New Paved Outside Shoulder Width L/R	2.00 / 4.00
Structural Spread Rate	110
Friction Course Spread Rate	80
Total Width (T) / 8" Overlap (O)	Т
Rumble Strips i. 1/2No. of Sides	0

## Pay Items

Pay item	Description	<b>Quantity Unit</b>	Unit Price Ex	tended Amount
285-704	OPTIONAL BASE,BASE GROUP 04	606.79 SY	\$42.51	\$25,794.64
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	30.07 TN	\$188.86	\$5,679.02
337-7-83	ASPH CONC FC,TRAFFIC C,FC- 12.5,PG 76-22	21.87 TN	\$206.53	\$4,516.81
570-1-1	PERFORMANCE TURF	546.66 SY	\$6.88	\$3,761.02

## **Erosion Control**

## Pay Items

Pay item	Description	<b>Quantity Unit</b>	Unit Price E	xtended Amount
104-10-3	SEDIMENT BARRIER	1,885.96 LF	\$3.32	\$6,261.39
104-11	FLOATING TURBIDITY BARRIER	15.53 LF	\$15.96	\$247.86
104-12	STAKED TURBIDITY BARRIER- NYL REINF PVC	15.53 LF	\$19.18	\$297.87
104-15	SOIL TRACKING PREVENTION DEVICE	1.00 EA	\$4,709.30	\$4,709.30
104-18	INLET PROTECTION SYSTEM	1.00 EA	\$192.13	\$192.13
107-1	LITTER REMOVAL	0.38 AC	\$57.63	\$21.90
107-2	MOWING	0.38 AC	\$88.49	\$33.63
	Shoulder Component Total			\$51,515.57

#### **DRAINAGE COMPONENT**

Pay Items				
Pay item	Description	<b>Quantity Unit</b>	Unit Price E	Extended Amount
430-174-124	PIPE CULV, OPT MATL, ROUND,24"SD	24.00 LF	\$278.89	\$6,693.36
430-175-136	PIPE CULV, OPT MATL, ROUND, 36"S/CD	16.00 LF	\$310.89	\$4,974.24
430-984-129	MITERED END SECT, OPTIONAL RD, 24" SD	2.00 EA	\$3,624.19	\$7,248.38
570-1-1	PERFORMANCE TURF	62.74 SY	\$6.88	\$431.65
	Drainage Component Total			\$19,347.63

#### SIGNING COMPONENT

Description	<b>Quantity Unit</b>	Unit Price	Extended Amount
SINGLE COL GRND SIGN AS, F&I GM, <12 SF	1.00 EA	\$533.45	\$533.45
SINGLE COL GRND SIGN AS, F&I GM, 12-20	4.00 EA	\$1,918.21	\$7,672.84
SINGLE COL GRND SIGN AS, RELOCATE	1.00 EA	\$348.10	\$348.10
SINGLE COL GRND SIGN AS, REMOVE	4.00 EA	\$58.36	\$233.44
MULTI- COLUMN SIGN, F&I GM, 20.1-30 SF	1.00 EA	\$6,727.35	\$6,727.35
MULTI- COLUMN GROUND SIGN, REMOVE	1.00 EA	\$1,238.78	\$1,238.78
Signing Component Total			\$16,753.96
tal			\$223,869.07
	SINGLE COL GRND SIGN AS, F&I GM, <12 SF SINGLE COL GRND SIGN AS, F&I GM, 12-20 SINGLE COL GRND SIGN AS, RELOCATE SINGLE COL GRND SIGN AS, REMOVE MULTI- COLUMN SIGN, F&I GM, 20.1-30 SF MULTI- COLUMN GROUND SIGN, REMOVE Signing Component Total	SINGLE COL GRND SIGN AS, F&I GM, <12 SF SINGLE COL GRND SIGN AS, F&I GM, 12-20 SINGLE COL GRND SIGN AS, RELOCATE SINGLE COL GRND SIGN AS, REMOVE MULTI- COLUMN SIGN, F&I GM, 20.1-30 SF MULTI- COLUMN GROUND SIGN, REMOVE Signing Component Total	SINGLE COL GRND SIGN AS, F&I       1.00 EA       \$533.45         GM, <12 SF

Sequence: 10 WUR - Widen/Resurface, Undivided, Rural

Net Length:

0.067 MI
354 LF

**Description:** Ramp D - SB off two lane section

#### **EARTHWORK COMPONENT**

#### **User Input Data**

Description	Value
Standard Clearing and Grubbing Limits L/R	30.00 / 30.00
Incidental Clearing and Grubbing Area	0.00
Alignment Number	1
Distance	0.067
Top of Structural Course For Begin Section	102.00
Top of Structural Course For End Section	102.00
Horizontal Elevation For Begin Section	100.00
Horizontal Elevation For End Section	100.00
Existing Front Slope L/R	6 to 1 / 6 to 1
Existing Outside Shoulder Cross Slope L/R	6.00 % / 6.00 %
Front Slope L/R	6 to 1 / 6 to 1
Outside Shoulder Cross Slope L/R	6.00 % / 6.00 %
Roadway Cross Slope L/R	2.00 % / 2.00 %

## Pay Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
110-1-1	CLEARING & GRUBBING	0.49 AC	\$61,068.42	\$29,923.53
120-2-2	BORROW EXCAVATION, TRUCK MEASURE	71.67 CY	\$53.86	\$3,860.15
	Earthwork Component Total			\$33,783.68

## **ROADWAY COMPONENT**

#### **User Input Data**

Description	Value
Number of Lanes	2
Existing Roadway Pavement Width L/R	7.50 / 7.50
Structural Spread Rate	165
Friction Course Spread Rate	80
Widened Outside Pavement Width L/R	0.00 / 9.00
Widened Structural Spread Rate	275
Widened Friction Course Spread Rate	165

## Pay Items

Pay item	Description	<b>Quantity Unit</b>	Unit Price Ex	xtended Amount
160-4	TYPE B STABILIZATION	1,139.89 SY	\$21.48	\$24,484.84
285-709	OPTIONAL BASE,BASE GROUP 09	366.73 SY	\$58.67	\$21,516.05
327-70-5	MILLING EXIST ASPH PAVT, 2" AVG DEPTH	589.60 SY	\$7.52	\$4,433.79
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	48.64 TN	\$188.86	\$9,186.15
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	48.64 TN	\$188.86	\$9,186.15
337-7-83	ASPH CONC FC,TRAFFIC C,FC- 12.5,PG 76-22	23.58 TN	\$206.53	\$4,869.98
337-7-83	ASPH CONC FC,TRAFFIC C,FC- 12.5,PG 76-22	29.19 TN	\$206.53	\$6,028.61

## **Pavement Marking Subcomponent**

Description	Value
Include Thermo/Tape/Other	N
Pavement Type	Asphalt
Solid Stripe No. of Paint Applications	2
Solid Stripe No. of Stripes	2
Skip Stripe No. of Paint Applications	2
Skip Stripe No. of Stripes	1

## Pay Items

Pay item	Description	<b>Quantity Unit</b>	Unit Price Ex	xtended Amount
706-1-3	RAISED PAVMT MARK, TYPE B	9.00 EA	\$4.96	\$44.64
710-11-101	PAINTED PAVT MARK,STD,WHITE,SOLID,6"	0.27 GM	\$1,448.71	\$391.15
710-11-231	PAINTED PAVT MARK,STD,YELLOW,SKIP,6"	0.13 GM	\$820.00	\$106.60

## **Peripherals Subcomponent**

Description	Value
Off Road Bike Path(s)	0
Off Road Bike Path Width L/R	0.00 / 0.00
Bike Path Structural Spread Rate	0
Noise Barrier Wall Length	0.00
Noise Barrier Wall Begin Height	0.00
Noise Barrier Wall End Height	0.00

## Roadway Component Total

#### SHOULDER COMPONENT

## **User Input Data**

Description	Value
Existing Total Outside Shoulder Width L/R	6.00 / 6.00
New Total Outside Shoulder Width L/R	8.00 / 12.00
Total Outside Shoulder Perf. Turf Width L/R	4.00 / 2.00
Existing Paved Outside Shoulder Width L/R	0.00 / 0.00
New Paved Outside Shoulder Width L/R	4.00 / 10.00
Structural Spread Rate	110
Friction Course Spread Rate	80
Total Width (T) / 8" Overlap (O)	Т
Rumble Strips �No. of Sides	0

# Pay Items

Pay item	Description	<b>Quantity Unit</b>	Unit Price Ex	tended Amount
285-704	OPTIONAL BASE, BASE GROUP 04	576.24 SY	\$42.51	\$24,495.96
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	30.27 TN	\$188.86	\$5,716.79
337-7-83	ASPH CONC FC,TRAFFIC C,FC- 12.5,PG 76-22	22.01 TN	\$206.53	\$4,545.73
570-1-1	PERFORMANCE TURF	235.84 SY	\$6.88	\$1,622.58

#### **Erosion Control**

## Pay Items

Pay item	Description	<b>Quantity Unit</b>	Unit Price E	xtended Amount
104-10-3	SEDIMENT BARRIER	813.65 LF	\$3.32	\$2,701.32
104-11	FLOATING TURBIDITY BARRIER	6.70 LF	\$15.96	\$106.93
104-12	STAKED TURBIDITY BARRIER- NYL REINF PVC	6.70 LF	\$19.18	\$128.51

\$80,247.96

	Shoulder Component Total			\$44,242.63
107-2	MOWING	0.16 AC	\$88.49	\$14.16
107-1	LITTER REMOVAL	0.16 AC	\$57.63	\$9.22
104-18	INLET PROTECTION SYSTEM	1.00 EA	\$192.13	\$192.13
104-15	SOIL TRACKING PREVENTION DEVICE	1.00 EA	\$4,709.30	\$4,709.30

Pay Items				
Pay item	Description	<b>Quantity Unit</b>	Unit Price I	Extended Amount
430-174-124	PIPE CULV, OPT MATL, ROUND,24"SD	16.00 LF	\$278.89	\$4,462.24
430-175-136	PIPE CULV, OPT MATL, ROUND, 36"S/CD	8.00 LF	\$310.89	\$2,487.12
430-984-129	MITERED END SECT, OPTIONAL RD, 24" SD	1.00 EA	\$3,624.19	\$3,624.19
570-1-1	PERFORMANCE TURF	27.07 SY	\$6.88	\$186.24
	Drainage Component Total			\$10,759.79

#### **SIGNING COMPONENT**

Pay Items				
Pay item	Description	<b>Quantity Unit</b>	Unit Price I	Extended Amount
700-1-111	SINGLE COL GRND SIGN AS, F&I GM, <12 SF	1.00 EA	\$533.45	\$533.45
700-1-112	SINGLE COL GRND SIGN AS, F&I GM, 12-20	2.00 EA	\$1,918.21	\$3,836.42
700-1-500	SINGLE COL GRND SIGN AS, RELOCATE	1.00 EA	\$348.10	\$348.10
700-1-600	SINGLE COL GRND SIGN AS, REMOVE	2.00 EA	\$58.36	\$116.72
700-2-113	MULTI- COLUMN SIGN, F&I GM, 20.1-30 SF	1.00 EA	\$6,727.35	\$6,727.35
700-2-600	MULTI- COLUMN GROUND SIGN, REMOVE	1.00 EA	\$1,238.78	\$1,238.78
	Signing Component Total			\$12,800.82

## LIGHTING COMPONENT

<b>Description</b> Multiplier (Num	nber of Poles)			<b>Value</b> 2
Pay Items	,			
Pay item	Description	Quantity Unit	<b>Unit Price</b>	Extended Amount
630-2-11	CONDUIT, F& I, OPEN TRENCH	400.00 LF	\$24.85	\$9,940.00
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24"	2.00 EA	\$1,708.32	\$3,416.64
715-1-13	LIGHTING CONDUCTORS, F&I, INSUL, NO.4-2	1,200.00 LF	\$6.55	\$7,860.00
715-61-442	LIGHT POLE CMPLT,STD,F&I, 45'MH,12'ARM L	2.00 EA	\$16,000.00	\$32,000.00
715-500-1	POLE CABLE DIST SYS, CONVENTIONAL	2.00 EA	\$1,175.12	\$2,350.24
	Subcomponent Total			\$55,566.88

Lighting Component Total	\$55,566.88
Sequence 10 Total	\$237,401.76

Sequence: 11 WUR - Widen/Resurface, Undivided, Rural

Net Length:

0.028 MI
146 LF

Description: Ramp D - SB off four lane section

#### **EARTHWORK COMPONENT**

## **User Input Data**

Description Standard Clearing and Grubbing Limits L/R	<b>Value</b> 50.00 / 50.00
Incidental Clearing and Grubbing Area	0.00
Alignment Number	1
Distance	0.028
Top of Structural Course For Begin Section	102.00
Top of Structural Course For End Section	102.00
Horizontal Elevation For Begin Section	100.00
Horizontal Elevation For End Section	100.00
Existing Front Slope L/R	6 to 1 / 6 to 1
Existing Outside Shoulder Cross Slope L/R	6.00 % / 6.00 %
Front Slope L/R	6 to 1 / 6 to 1
Outside Shoulder Cross Slope L/R	6.00 % / 6.00 %
Roadway Cross Slope L/R	2.00 % / 2.00 %

## Pay Items

Pay item	Description	<b>Quantity Unit</b>	Unit Price	Extended Amount
110-1-1	CLEARING & GRUBBING	0.34 AC	\$61,068.42	\$20,763.26
120-2-2	BORROW EXCAVATION, TRUCK MEASURE	69.43 CY	\$53.86	\$3,739.50
	Earthwork Component Total			\$24,502.76

## **ROADWAY COMPONENT**

#### **User Input Data**

Description	Value
Number of Lanes	4
Existing Roadway Pavement Width L/R	7.50 / 7.50
Structural Spread Rate	165
Friction Course Spread Rate	80
Widened Outside Pavement Width L/R	30.00 / 3.00
Widened Structural Spread Rate	275
Widened Friction Course Spread Rate	165

## Pay Items

Pay item	Description	<b>Quantity Unit</b>	Unit Price E	xtended Amount
160-4	TYPE B STABILIZATION	861.29 SY	\$21.48	\$18,500.51
285-709	OPTIONAL BASE,BASE GROUP 09	547.00 SY	\$58.67	\$32,092.49
327-70-5	MILLING EXIST ASPH PAVT, 2" AVG DEPTH	243.76 SY	\$7.52	\$1,833.08
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	20.11 TN	\$188.86	\$3,797.97
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	73.74 TN	\$188.86	\$13,926.54
337-7-83	ASPH CONC FC,TRAFFIC C,FC- 12.5,PG 76-22	9.75 TN	\$206.53	\$2,013.67
337-7-83	ASPH CONC FC,TRAFFIC C,FC- 12.5,PG 76-22	44.24 TN	\$206.53	\$9,136.89

## **Pavement Marking Subcomponent**

Description	Value
Include Thermo/Tape/Other	N
Pavement Type	Asphalt
Solid Stripe No. of Paint Applications	2
Solid Stripe No. of Stripes	2
Skip Stripe No. of Paint Applications	2
Skip Stripe No. of Stripes	3

## Pay Items

Pay item	Description	<b>Quantity Unit</b>	Unit Price Ex	xtended Amount
706-1-3	RAISED PAVMT MARK, TYPE B	19.00 EA	\$4.96	\$94.24
710-11-101	PAINTED PAVT MARK,STD,WHITE,SOLID,6"	0.11 GM	\$1,448.71	\$159.36
710-11-231	PAINTED PAVT MARK,STD,YELLOW,SKIP,6"	0.17 GM	\$820.00	\$139.40

# **Peripherals Subcomponent**

Description	Value
Off Road Bike Path(s)	0
Off Road Bike Path Width L/R	0.00 / 0.00
Bike Path Structural Spread Rate	0
Noise Barrier Wall Length	0.00
Noise Barrier Wall Begin Height	0.00
Noise Barrier Wall End Height	0.00

## Roadway Component Total

#### SHOULDER COMPONENT

# **User Input Data**

Description	Value
Existing Total Outside Shoulder Width L/R	6.00 / 6.00
New Total Outside Shoulder Width L/R	8.00 / 12.00
Total Outside Shoulder Perf. Turf Width L/R	4.00 / 2.00
Existing Paved Outside Shoulder Width L/R	0.00 / 0.00
New Paved Outside Shoulder Width L/R	4.00 / 10.00
Structural Spread Rate	110
Friction Course Spread Rate	80
Total Width (T) / 8" Overlap (O)	Т
Rumble Strips �No. of Sides	0

# Pay Items

Pay item	Description	<b>Quantity Unit</b>	Unit Price Ex	tended Amount
285-704	OPTIONAL BASE, BASE GROUP 04	238.23 SY	\$42.51	\$10,127.16
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	12.51 TN	\$188.86	\$2,362.64
337-7-83	ASPH CONC FC,TRAFFIC C,FC- 12.5,PG 76-22	9.10 TN	\$206.53	\$1,879.42
570-1-1	PERFORMANCE TURF	97.50 SY	\$6.88	\$670.80

#### **Erosion Control**

## Pay Items

Pay item	Description	<b>Quantity Unit</b>	Unit Price E	xtended Amount
104-10-3	SEDIMENT BARRIER	336.39 LF	\$3.32	\$1,116.81
104-11	FLOATING TURBIDITY BARRIER	2.77 LF	\$15.96	\$44.21
104-12	STAKED TURBIDITY BARRIER- NYL REINF PVC	2.77 LF	\$19.18	\$53.13

\$81,694.15

	Shoulder Component Total			\$21,165.82
107-2	MOWING	0.07 AC	\$88.49	\$6.19
107-1	LITTER REMOVAL	0.07 AC	\$57.63	\$4.03
104-18	INLET PROTECTION SYSTEM	1.00 EA	\$192.13	\$192.13
104-15	SOIL TRACKING PREVENTION DEVICE	1.00 EA	\$4,709.30	\$4,709.30

Pay Items				
Pay item	Description	<b>Quantity Unit</b>	Unit Price E	xtended Amount
430-174-124	PIPE CULV, OPT MATL, ROUND,24"SD	8.00 LF	\$278.89	\$2,231.12
430-175-136	PIPE CULV, OPT MATL, ROUND, 36"S/CD	8.00 LF	\$310.89	\$2,487.12
430-984-129	MITERED END SECT, OPTIONAL RD, 24" SD	1.00 EA	\$3,624.19	\$3,624.19
570-1-1	PERFORMANCE TURF	11.19 SY	\$6.88	\$76.99
	Drainage Component Total			\$8,419.42

#### **SIGNING COMPONENT**

Pay Items				
Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	Extended Amount
700-1-111	SINGLE COL GRND SIGN AS, F&I GM, <12 SF	1.00 EA	\$533.45	\$533.45
700-1-112	SINGLE COL GRND SIGN AS, F&I GM, 12-20	1.00 EA	\$1,918.21	\$1,918.21
700-1-500	SINGLE COL GRND SIGN AS, RELOCATE	1.00 EA	\$348.10	\$348.10
700-1-600	SINGLE COL GRND SIGN AS, REMOVE	1.00 EA	\$58.36	\$58.36
700-2-113	MULTI- COLUMN SIGN, F&I GM, 20.1-30 SF	1.00 EA	\$6,727.35	\$6,727.35
700-2-600	MULTI- COLUMN GROUND SIGN, REMOVE	1.00 EA	\$1,238.78	\$1,238.78
	Signing Component Total			\$10,824.25

## LIGHTING COMPONENT

Description	Value
Multiplier (Number of Poles)	1
Pay Itoms	

Pay items				
Pay ite	m Description	<b>Quantity Unit</b>	Unit Price	<b>Extended Amount</b>
630-2-11	CONDUIT, F& I, OPEN TRENCH	200.00 LF	\$24.85	\$4,970.00
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24"	1.00 EA	\$1,708.32	\$1,708.32
715-1-13	LIGHTING CONDUCTORS, F&I, INSUL, NO.4-2	600.00 LF	\$6.55	\$3,930.00
715-61-44	2 LIGHT POLE CMPLT,STD,F&I, 45'MH,12'ARM L	1.00 EA	\$16,000.00	\$16,000.00
715-500-1	POLE CABLE DIST SYS, CONVENTIONAL	1.00 EA	\$1,175.12	\$1,175.12
	Subcomponent Total			\$27,783.44

Lighting Component Total	\$27,783.44
Sequence 11 Total	\$174,389.84

Sequence: 12 WUR - Widen/Resurface, Undivided, Rural

Net Length:

0.061 MI
323 LF

**Description:** Ramp D - SB off five lane section

#### **EARTHWORK COMPONENT**

#### **User Input Data**

Description	Value
Standard Clearing and Grubbing Limits L/R	50.00 / 50.00
Incidental Clearing and Grubbing Area	0.00
Alignment Number	1
Distance	0.061
Top of Structural Course For Begin Section	102.00
Top of Structural Course For End Section	102.00
Horizontal Elevation For Begin Section	100.00
Horizontal Elevation For End Section	100.00
Existing Front Slope L/R	6 to 1 / 6 to 1
Existing Outside Shoulder Cross Slope L/R	6.00 % / 6.00 %
Front Slope L/R	6 to 1 / 6 to 1
Outside Shoulder Cross Slope L/R	6.00 % / 6.00 %
Roadway Cross Slope L/R	2.00 % / 2.00 %

#### Pay Items

Pay item	Description	<b>Quantity Unit</b>	Unit Price	Extended Amount
110-1-1	CLEARING & GRUBBING	0.74 AC	\$61,068.42	\$45,190.63
120-2-2	BORROW EXCAVATION, TRUCK MEASURE	205.77 CY	\$53.86	\$11,082.77
	Earthwork Component Total			\$56,273.40

# **ROADWAY COMPONENT**

#### **User Input Data**

Description	Value
Number of Lanes	5
Existing Roadway Pavement Width L/R	7.50 / 7.50
Structural Spread Rate	165
Friction Course Spread Rate	80
Widened Outside Pavement Width L/R	30.00 / 15.00
Widened Structural Spread Rate	275
Widened Friction Course Spread Rate	165

# Pay Items

Pay item	Description	<b>Quantity Unit</b>	Unit Price E	xtended Amount
160-4	TYPE B STABILIZATION	2,333.76 SY	\$21.48	\$50,129.16
285-709	OPTIONAL BASE,BASE GROUP 09	1,639.38 SY	\$58.67	\$96,182.42
327-70-5	MILLING EXIST ASPH PAVT, 2" AVG DEPTH	538.56 SY	\$7.52	\$4,049.97
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	44.43 TN	\$188.86	\$8,391.05
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	222.16 TN	\$188.86	\$41,957.14
337-7-83	ASPH CONC FC,TRAFFIC C,FC- 12.5,PG 76-22	21.54 TN	\$206.53	\$4,448.66
337-7-83	ASPH CONC FC,TRAFFIC C,FC- 12.5,PG 76-22	133.29 TN	\$206.53	\$27,528.38

# **Pavement Marking Subcomponent**

Description	Value
Include Thermo/Tape/Other	N
Pavement Type	Asphalt
Solid Stripe No. of Paint Applications	2
Solid Stripe No. of Stripes	2
Skip Stripe No. of Paint Applications	2
Skip Stripe No. of Stripes	4

# Pay Items

Pay item	Description	<b>Quantity Unit</b>	Unit Price Ex	xtended Amount
706-1-3	RAISED PAVMT MARK, TYPE B	50.00 EA	\$4.96	\$248.00
710-11-101	PAINTED PAVT MARK,STD,WHITE,SOLID,6"	0.24 GM	\$1,448.71	\$347.69
710-11-231	PAINTED PAVT MARK,STD,YELLOW,SKIP,6"	0.49 GM	\$820.00	\$401.80

# **Peripherals Subcomponent**

Description	Value
Off Road Bike Path(s)	0
Off Road Bike Path Width L/R	0.00 / 0.00
Bike Path Structural Spread Rate	0
Noise Barrier Wall Length	0.00
Noise Barrier Wall Begin Height	0.00
Noise Barrier Wall End Height	0.00

Roadway Component Total

#### SHOULDER COMPONENT

# **User Input Data**

Description	Value
Existing Total Outside Shoulder Width L/R	6.00 / 6.00
New Total Outside Shoulder Width L/R	8.00 / 12.00
Total Outside Shoulder Perf. Turf Width L/R	4.00 / 2.00
Existing Paved Outside Shoulder Width L/R	0.00 / 0.00
New Paved Outside Shoulder Width L/R	4.00 / 10.00
Structural Spread Rate	110
Friction Course Spread Rate	80
Total Width (T) / 8" Overlap (O)	Т
Rumble Strips �No. of Sides	0

# Pay Items

Pay item	Description	<b>Quantity Unit</b>	Unit Price Ex	tended Amount
285-704	OPTIONAL BASE,BASE GROUP 04	526.35 SY	\$42.51	\$22,375.14
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	27.65 TN	\$188.86	\$5,221.98
337-7-83	ASPH CONC FC,TRAFFIC C,FC- 12.5,PG 76-22	20.11 TN	\$206.53	\$4,153.32
570-1-1	PERFORMANCE TURF	215.42 SY	\$6.88	\$1,482.09

# **Erosion Control**

# Pay Items

Pay item	Description	<b>Quantity Unit</b>	Unit Price E	xtended Amount
104-10-3	SEDIMENT BARRIER	743.21 LF	\$3.32	\$2,467.46
104-11	FLOATING TURBIDITY BARRIER	6.12 LF	\$15.96	\$97.68
104-12	STAKED TURBIDITY BARRIER- NYL REINF PVC	6.12 LF	\$19.18	\$117.38

\$233,684.27

104-15	SOIL TRACKING PREVENTION DEVICE	1.00 EA	\$4,709.30	\$4,709.30
104-18	INLET PROTECTION SYSTEM	1.00 EA	\$192.13	\$192.13
107-1	LITTER REMOVAL	0.15 AC	\$57.63	\$8.64
107-2	MOWING	0.15 AC	\$88.49	\$13.27
	Shoulder Component Total			\$40,838.39

# **DRAINAGE COMPONENT**

Pay Items				
Pay item	Description	<b>Quantity Unit</b>	Unit Price E	xtended Amount
430-174-124	PIPE CULV, OPT MATL, ROUND,24"SD	16.00 LF	\$278.89	\$4,462.24
430-175-136	PIPE CULV, OPT MATL, ROUND, 36"S/CD	8.00 LF	\$310.89	\$2,487.12
430-984-129	MITERED END SECT, OPTIONAL RD, 24" SD	1.00 EA	\$3,624.19	\$3,624.19
570-1-1	PERFORMANCE TURF	24.72 SY	\$6.88	\$170.07
	Drainage Component Total			\$10,743.62

#### **SIGNING COMPONENT**

Pay Items				
Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	Extended Amount
700-1-111	SINGLE COL GRND SIGN AS, F&I GM, <12 SF	1.00 EA	\$533.45	\$533.45
700-1-112	SINGLE COL GRND SIGN AS, F&I GM, 12-20	2.00 EA	\$1,918.21	\$3,836.42
700-1-500	SINGLE COL GRND SIGN AS, RELOCATE	1.00 EA	\$348.10	\$348.10
700-1-600	SINGLE COL GRND SIGN AS, REMOVE	2.00 EA	\$58.36	\$116.72
700-2-113	MULTI- COLUMN SIGN, F&I GM, 20.1-30 SF	1.00 EA	\$6,727.35	\$6,727.35
700-2-600	MULTI- COLUMN GROUND SIGN, REMOVE	1.00 EA	\$1,238.78	\$1,238.78
	Signing Component Total			\$12,800.82

# LIGHTING COMPONENT

Rural	Liahtina	Subcomponent	

<b>Description</b> Multiplier (Num	nber of Poles)			<b>Value</b> 2
Pay Items				
Pay item	Description	Quantity Unit	<b>Unit Price</b>	Extended Amount
630-2-11	CONDUIT, F& I, OPEN TRENCH	400.00 LF	\$24.85	\$9,940.00
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24"	2.00 EA	\$1,708.32	\$3,416.64
715-1-13	LIGHTING CONDUCTORS, F&I, INSUL, NO.4-2	1,200.00 LF	\$6.55	\$7,860.00
715-61-442	LIGHT POLE CMPLT,STD,F&I, 45'MH,12'ARM L	2.00 EA	\$16,000.00	\$32,000.00
715-500-1	POLE CABLE DIST SYS, CONVENTIONAL	2.00 EA	\$1,175.12	\$2,350.24
	Subcomponent Total			\$55,566.88

Lighting Component Total	\$55,566.88
Sequence 12 Total	\$409,907.38

Sequence: 13 WUR - Widen/Resurface, Undivided, Rural

Net Length:

0.081 MI
429 LF

**Description:** Ramp D - SB off five lane section (3 ex. lanes)

#### **EARTHWORK COMPONENT**

#### **User Input Data**

Description	Value
Standard Clearing and Grubbing Limits L/R	50.00 / 50.00
Incidental Clearing and Grubbing Area	0.00
Alignment Number	1
Distance	0.081
Top of Structural Course For Begin Section	102.00
Top of Structural Course For End Section	102.00
Horizontal Elevation For Begin Section	100.00
Horizontal Elevation For End Section	100.00
Existing Front Slope L/R	6 to 1 / 6 to 1
Existing Outside Shoulder Cross Slope L/R	6.00 % / 6.00 %
Front Slope L/R	6 to 1 / 6 to 1
Outside Shoulder Cross Slope L/R	6.00 % / 6.00 %
Roadway Cross Slope L/R	2.00 % / 2.00 %

#### Pay Items

,				
Pay item	Description	<b>Quantity Unit</b>	Unit Price	Extended Amount
110-1-1	CLEARING & GRUBBING	0.98 AC	\$61,068.42	\$59,847.05
120-2-2	BORROW EXCAVATION, TRUCK MEASURE	195.94 CY	\$53.86	\$10,553.33
	Earthwork Component Total			\$70,400.38

# **ROADWAY COMPONENT**

#### **User Input Data**

Description	Value
Number of Lanes	5
Existing Roadway Pavement Width L/R	18.00 / 18.00
Structural Spread Rate	165
Friction Course Spread Rate	80
Widened Outside Pavement Width L/R	12.00 / 12.00
Widened Structural Spread Rate	275
Widened Friction Course Spread Rate	165

# Pay Items

Pay item	Description	<b>Quantity Unit</b>	Unit Price E	xtended Amount
160-4	TYPE B STABILIZATION	2,098.62 SY	\$21.48	\$45,078.36
285-709	OPTIONAL BASE,BASE GROUP 09	1,176.18 SY	\$58.67	\$69,006.48
327-70-5	MILLING EXIST ASPH PAVT, 2" AVG DEPTH	1,717.06 SY	\$7.52	\$12,912.29
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	141.66 TN	\$188.86	\$26,753.91
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	157.40 TN	\$188.86	\$29,726.56
337-7-83	ASPH CONC FC,TRAFFIC C,FC- 12.5,PG 76-22	68.68 TN	\$206.53	\$14,184.48
337-7-83	ASPH CONC FC,TRAFFIC C,FC- 12.5,PG 76-22	94.44 TN	\$206.53	\$19,504.69

# **Pavement Marking Subcomponent**

Description	Value
Include Thermo/Tape/Other	N
Pavement Type	Asphalt
Solid Stripe No. of Paint Applications	2
Solid Stripe No. of Stripes	2
Skip Stripe No. of Paint Applications	2
Skip Stripe No. of Stripes	4

# Pay Items

Pay item	Description	<b>Quantity Unit</b>	Unit Price Ex	ctended Amount
706-1-3	RAISED PAVMT MARK, TYPE B	66.00 EA	\$4.96	\$327.36
710-11-101	PAINTED PAVT MARK,STD,WHITE,SOLID,6"	0.33 GM	\$1,448.71	\$478.07
710-11-231	PAINTED PAVT MARK,STD,YELLOW,SKIP,6"	0.65 GM	\$820.00	\$533.00

# **Peripherals Subcomponent**

Description	Value
Off Road Bike Path(s)	0
Off Road Bike Path Width L/R	0.00 / 0.00
Bike Path Structural Spread Rate	0
Noise Barrier Wall Length	0.00
Noise Barrier Wall Begin Height	0.00
Noise Barrier Wall End Height	0.00

Roadway Component Total

# SHOULDER COMPONENT

# **User Input Data**

Description	Value
Existing Total Outside Shoulder Width L/R	6.00 / 6.00
New Total Outside Shoulder Width L/R	8.00 / 12.00
Total Outside Shoulder Perf. Turf Width L/R	4.00 / 2.00
Existing Paved Outside Shoulder Width L/R	0.00 / 0.00
New Paved Outside Shoulder Width L/R	4.00 / 10.00
Structural Spread Rate	110
Friction Course Spread Rate	80
Total Width (T) / 8" Overlap (O)	Т
Rumble Strips �No. of Sides	0

# Pay Items

Pay item	Description	<b>Quantity Unit</b>	Unit Price Ex	tended Amount
285-704	OPTIONAL BASE, BASE GROUP 04	699.22 SY	\$42.51	\$29,723.84
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	36.73 TN	\$188.86	\$6,936.83
337-7-83	ASPH CONC FC,TRAFFIC C,FC- 12.5,PG 76-22	26.71 TN	\$206.53	\$5,516.42
570-1-1	PERFORMANCE TURF	286.18 SY	\$6.88	\$1,968.92

# **Erosion Control**

# Pay Items

Pay item	Description	<b>Quantity Unit</b>	Unit Price Exte	ended Amount
104-10-3	SEDIMENT BARRIER	987.31 LF	\$3.32	\$3,277.87
104-11	FLOATING TURBIDITY BARRIER	8.13 LF	\$15.96	\$129.75
104-12	STAKED TURBIDITY BARRIER- NYL REINF PVC	8.13 LF	\$19.18	\$155.93

\$218,505.20

104-15	SOIL TRACKING PREVENTION DEVICE	1.00 EA	\$4,709.30	\$4,709.30
104-18	INLET PROTECTION SYSTEM	1.00 EA	\$192.13	\$192.13
107-1	LITTER REMOVAL	0.20 AC	\$57.63	\$11.53
107-2	MOWING	0.20 AC	\$88.49	\$17.70
	Shoulder Component Total			\$52,640.22

# **DRAINAGE COMPONENT**

Pay Items				
Pay item	Description	<b>Quantity Unit</b>	Unit Price E	xtended Amount
430-174-124	PIPE CULV, OPT MATL, ROUND,24"SD	16.00 LF	\$278.89	\$4,462.24
430-175-136	PIPE CULV, OPT MATL, ROUND, 36"S/CD	8.00 LF	\$310.89	\$2,487.12
430-984-129	MITERED END SECT, OPTIONAL RD, 24" SD	1.00 EA	\$3,624.19	\$3,624.19
570-1-1	PERFORMANCE TURF	32.85 SY	\$6.88	\$226.01
	Drainage Component Total			\$10,799.56

#### **SIGNING COMPONENT**

Pay Items				
Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	Extended Amount
700-1-111	SINGLE COL GRND SIGN AS, F&I GM, <12 SF	1.00 EA	\$533.45	\$533.45
700-1-112	SINGLE COL GRND SIGN AS, F&I GM, 12-20	2.00 EA	\$1,918.21	\$3,836.42
700-1-500	SINGLE COL GRND SIGN AS, RELOCATE	1.00 EA	\$348.10	\$348.10
700-1-600	SINGLE COL GRND SIGN AS, REMOVE	2.00 EA	\$58.36	\$116.72
700-2-113	MULTI- COLUMN SIGN, F&I GM, 20.1-30 SF	1.00 EA	\$6,727.35	\$6,727.35
700-2-600	MULTI- COLUMN GROUND SIGN, REMOVE	1.00 EA	\$1,238.78	\$1,238.78
	Signing Component Total			\$12,800.82

# LIGHTING COMPONENT

Rural	Liahtina	Subcomponent	

<b>Description</b> Multiplier (Num	nber of Poles)			<b>Value</b> 2
Pay Items				
Pay item	Description	Quantity Unit	<b>Unit Price</b>	Extended Amount
630-2-11	CONDUIT, F& I, OPEN TRENCH	400.00 LF	\$24.85	\$9,940.00
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24"	2.00 EA	\$1,708.32	\$3,416.64
715-1-13	LIGHTING CONDUCTORS, F&I, INSUL, NO.4-2	1,200.00 LF	\$6.55	\$7,860.00
715-61-442	LIGHT POLE CMPLT,STD,F&I, 45'MH,12'ARM L	2.00 EA	\$16,000.00	\$32,000.00
715-500-1	POLE CABLE DIST SYS, CONVENTIONAL	2.00 EA	\$1,175.12	\$2,350.24
	Subcomponent Total			\$55,566.88

Lighting Component Total	\$55,566.88
Sequence 13 Total	\$420,713.06

Sequence: 14 WDR - Widen/Resurface, Divided, Rural

Net Length:

0.135 MI
710 LF

**Description:** cross road suburban section (begin project)

# **EARTHWORK COMPONENT**

# **User Input Data**

<b>Description</b> Standard Clearing and Grubbing Limits L/R	<b>Value</b> 20.00 / 20.00
Incidental Clearing and Grubbing Area	0.00
Alignment Number	1
Distance	0.134
Top of Structural Course For Begin Section	102.00
Top of Structural Course For End Section	102.00
Horizontal Elevation For Begin Section	100.00
Horizontal Elevation For End Section	100.00
Existing Front Slope L/R	6 to 1 / 6 to 1
Existing Median Slope L/R	6 to 1 / 6 to 1
Existing Median Shoulder Cross Slope L/R	5.00 % / 5.00 %
Existing Outside Shoulder Cross Slope L/R	6.00 % / 6.00 %
Front Slope L/R	6 to 1 / 6 to 1
Median Slope L/R	6 to 1 / 6 to 1
Median Shoulder Cross Slope L/R	5.00 % / 5.00 %
Outside Shoulder Cross Slope L/R	6.00 % / 6.00 %
Roadway Cross Slope L/R	2.00 % / 2.00 %

#### Pay Items

Pay item	Description	<b>Quantity Unit</b>	Unit Price	Extended Amount
110-1-1	CLEARING & GRUBBING	0.65 AC	\$61,068.42	\$39,694.47
120-2-2	BORROW EXCAVATION, TRUCK MEASURE	796.62 CY	\$53.86	\$42,905.95
	Earthwork Component Total			\$82,600.42

#### **ROADWAY COMPONENT**

# **User Input Data**

Description	Value
Number of Lanes	6
Existing Roadway Pavement Width L/R	36.00 / 36.00
Structural Spread Rate	220
Friction Course Spread Rate	80
Widened Outside Pavement Width L/R	19.00 / 12.00
Widened Inside Pavement Width L/R	0.00 / 12.00
Widened Structural Spread Rate	330
Widened Friction Course Spread Rate	80

Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	Extended Amount
160-4	TYPE B STABILIZATION	4,971.12 SY	\$21.48	\$106,779.66
285-709	OPTIONAL BASE,BASE GROUP 09	3,471.10 SY	\$58.67	\$203,649.44
327-70-5	MILLING EXIST ASPH PAVT, 2" AVG DEPTH	5,681.28 SY	\$7.52	\$42,723.23
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	624.94 TN	\$188.86	\$118,026.17
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	559.84 TN	\$188.86	\$105,731.38

337-7-25	ASPH CONC FC,INC BIT,FC- 5,PG76-22	227.25 TN	\$247.36	\$56,212.56
337-7-25	ASPH CONC FC,INC BIT,FC- 5,PG76-22	135.72 TN	\$247.36	\$33,571.70

# **Pavement Marking Subcomponent**

Description	Value
Include Thermo/Tape/Other	N
Pavement Type	Asphalt
Solid Stripe No. of Paint Applications	2
Solid Stripe No. of Stripes	4
Skip Stripe No. of Paint Applications	2
Skip Stripe No. of Stripes	4

# Pay Items

,				
Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
706-1-3	RAISED PAVMT MARK, TYPE B	91.00 EA	\$4.96	\$451.36
710-11-101	PAINTED PAVT MARK,STD,WHITE,SOLID,6"	1.08 GM	\$1,448.71	\$1,564.61
710-11-131	PAINTED PAVT MARK,STD,WHITE,SKIP, 6"	1.08 GM	\$598.83	\$646.74
	Roadway Component Total			\$669,356.85

# SHOULDER COMPONENT

# **User Input Data**

Description	Value
Existing Total Outside Shoulder Width L/R	10.00 / 10.00
New Total Outside Shoulder Width L/R	10.00 / 10.00
Total Outside Shoulder Perf. Turf Width L/R	5.00 / 5.00
Existing Paved Outside Shoulder Width L/R	0.00 / 0.00
New Paved Outside Shoulder Width L/R	5.00 / 5.00
Structural Spread Rate	110
Friction Course Spread Rate	80
Total Width (T) / 8" Overlap (O)	Т
Rumble Strips 12 1/2 No. of Sides	0

# Pay Items

Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
285-704	OPTIONAL BASE,BASE GROUP 04	841.15 SY	\$42.51	\$35,757.29
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	43.40 TN	\$188.86	\$8,196.52
337-7-25	ASPH CONC FC,INC BIT,FC- 5,PG76-22	31.56 TN	\$247.36	\$7,806.68
570-1-1	PERFORMANCE TURF	789.07 SY	\$6.88	\$5,428.80

# **Erosion Control**

Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
104-10-3	SEDIMENT BARRIER	1,633.37 LF	\$3.32	\$5,422.79
104-11	FLOATING TURBIDITY BARRIER	13.45 LF	\$15.96	\$214.66
104-12	STAKED TURBIDITY BARRIER- NYL REINF PVC	13.45 LF	\$19.18	\$257.97
104-15	SOIL TRACKING PREVENTION DEVICE	1.00 EA	\$4,709.30	\$4,709.30
107-1	LITTER REMOVAL	0.98 AC	\$57.63	\$56.48

107-2 MOWING 0.98 AC \$88.49 \$86.72

# **Shoulder Component Total**

\$67,937.21

# **MEDIAN COMPONENT**

Description	Value
Total Median Width	40.00
Performance Turf Width	36.00
New Total Median Shoulder Width L/R	0.00 / 0.00
New Paved Median Shoulder Width L/R	0.00 / 0.00
Existing Total Median Shoulder Width L/R	0.00 / 0.00
Existing Paved Median Shoulder Width L/R	0.00 / 0.00
Structural Spread Rate	110
Friction Course Spread Rate	80
Total Width (T) / 8" Overlap (O)	Т
Rumble Strips �No. of Sides	0

# Pay Items

Pay item	Description	<b>Quantity Unit</b>	Unit Price	<b>Extended Amount</b>
570-1-1	PERFORMANCE TURF	2,840.64 SY	\$6.88	\$19,543.60
X-Items				
Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
520-1-10	CONCRETE CURB & GUTTER, TYPE F	1,164.00 LF	\$49.20	\$57,268.80
	Comment: median curb and gutter (lt/rt)			
	Median Component Total			\$76,812.40

# **DRAINAGE COMPONENT**

Pay Items				
Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
430-174-124	PIPE CULV, OPT MATL, ROUND,24"SD	112.00 LF	\$278.89	\$31,235.68
430-175-136	PIPE CULV, OPT MATL, ROUND, 36"S/CD	16.00 LF	\$310.89	\$4,974.24
430-984-129	MITERED END SECT, OPTIONAL RD, 24" SD	6.00 EA	\$3,624.19	\$21,745.14
570-1-1	PERFORMANCE TURF	94.69 SY	\$6.88	\$651.47
	Drainage Component Total			\$58,606.53

#### **SIGNING COMPONENT**

Pay Items				
Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
700-1-111	SINGLE COL GRND SIGN AS, F&I GM, <12 SF	1.00 EA	\$533.45	\$533.45
700-1-112	SINGLE COL GRND SIGN AS, F&I GM, 12-20	4.00 EA	\$1,918.21	\$7,672.84
700-1-500	SINGLE COL GRND SIGN AS, RELOCATE	1.00 EA	\$348.10	\$348.10
700-1-600	SINGLE COL GRND SIGN AS, REMOVE	4.00 EA	\$58.36	\$233.44

Signalization 1

	Signing Component Total			\$19,011.79
700-2-600	MULTI- COLUMN GROUND SIGN, REMOVE	1.00 EA	\$1,238.78	\$1,238.78
700-2-114	MULTI- COLUMN SIGN, F&I GM, 30.1-50 SF	1.00 EA	\$8,985.18	\$8,985.18

#### SIGNALIZATIONS COMPONENT

Description Type Multiplier Description		ne m 1		
Pay Items				
Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
630-2-11	CONDUIT, F& I, OPEN TRENCH	700.00 LF	\$24.85	\$17,395.00
630-2-12	CONDUIT, F& I, DIRECTIONAL BORE	300.00 LF	\$40.59	\$12,177.00
632-7-1	SIGNAL CABLE- NEW OR RECO, FUR & INSTALL	1.00 PI	\$13,923.07	\$13,923.07
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24"	22.00 EA	\$1,708.32	\$37,583.04
639-1-112	ELECTRICAL POWER SRV,F&I,OH,M,PUR BY CON	1.00 AS	\$7,134.25	\$7,134.25
639-2-1	ELECTRICAL SERVICE WIRE, F&I	60.00 LF	\$12.20	\$732.00
641-2-11	PREST CNC POLE,F&I,TYP P-II,PEDESTAL	1.00 EA	\$2,478.21	\$2,478.21
649-21-21	STEEL MAST ARM ASSEMBLY, F&I, 78'	6.00 EA	\$114,308.63	\$685,851.78
650-1-14	VEH TRAF SIGNAL,F&I ALUMINUM, 3 S 1 W	20.00 AS	\$1,917.46	\$38,349.20
	DEDESTRIAN SIGNAL EXILED			

650-1-14	ALUMINUM, 3 S 1 W	20.00 AS	\$1,917.46	\$38,349.20
653-1-11	PEDESTRIAN SIGNAL, F&I LED COUNT, 1 WAY	8.00 AS	\$1,277.10	\$10,216.80
660-1-102	LOOP DETECTOR INDUCTIVE, F&I, TYPE 2	20.00 EA	\$766.00	\$15,320.00
660-2-106	LOOP ASSEMBLY, F&I, TYPE F	20.00 AS	\$1,793.71	\$35,874.20
665-1-11	PEDESTRIAN DETECTOR, F&I, STANDARD	8.00 EA	\$449.78	\$3,598.24

700-3-101	SIGN PANEL, F&I GM, UP TO 12 SF	4.00 EA	\$294.26	\$1,177.04
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Signalizations Component Total \$931,739.79

1.00 AS

\$49,929.96

\$49,929.96

# LIGHTING COMPONENT

# **Rural Lighting Subcomponent**

670-5-111

Description	Value
Multiplier (Number of Poles)	4
Pay Items	

TRAF CNTL ASSEM, F&I, NEMA, 1

PREEMPT

i dy itellio				
Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
630-2-11	CONDUIT, F& I, OPEN TRENCH	800.00 LF	\$24.85	\$19,880.00
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24"	4.00 EA	\$1,708.32	\$6,833.28
715-1-13	LIGHTING CONDUCTORS, F&I,	2,400.00 LF	\$6.55	\$15,720.00

Sequence 14	\$2,017,198.75			
	Lighting Component Total			\$111,133.76
	Subcomponent Total			\$111,133.76
715-61-442 715-500-1	45'MH,12'ARM L POLE CABLE DIST SYS, CONVENTIONAL	4.00 EA 4.00 EA	\$16,000.00 \$1,175.12	\$64,000.00 \$4,700.48
	LIGHT POLE CMPLT,STD,F&I,		***	***

Sequence: 15 WDU - Widen/Resurface, Divided, Urban

Net Length:

0.208 MI
1,099 LF

**Description:** cross road urban section

#### **EARTHWORK COMPONENT**

# **User Input Data**

Description Standard Clearing and Crubbing Limits L/D	<b>Value</b>
Standard Clearing and Grubbing Limits L/R Incidental Clearing and Grubbing Area	25.00 / 25.00 0.00
including and Ordboning Area	0.00
Alignment Number	1
Distance	0.208
Top of Structural Course For Begin Section	102.00
Top of Structural Course For End Section	102.00
Horizontal Elevation For Begin Section	100.00
Horizontal Elevation For End Section	100.00
Existing Front Slope L/R	6 to 1 / 6 to 1
Existing Median Shoulder Cross Slope L/R	4.00 % / 4.00 %
Existing Outside Shoulder Cross Slope L/R	2.00 % / 2.00 %
Front Slope L/R	6 to 1 / 6 to 1
Median Shoulder Cross Slope L/R	4.00 % / 4.00 %
Outside Shoulder Cross Slope L/R	2.00 % / 2.00 %
Roadway Cross Slope L/R	2.00 % / 2.00 %

#### Pay Items

,				
Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
110-1-1	CLEARING & GRUBBING	1.26 AC	\$61,068.42	\$76,946.21
120-2-2	BORROW EXCAVATION, TRUCK MEASURE	148.06 CY	\$53.86	\$7,974.51
	Earthwork Component Total			\$84,920.72

# **ROADWAY COMPONENT**

# **User Input Data**

Description	Value
Number of Lanes	6
Existing Roadway Pavement Width L/R	60.00 / 60.00
Structural Spread Rate	165
Friction Course Spread Rate	80
Widened Outside Pavement Width L/R	12.00 / 12.00
Widened Inside Pavement Width L/R	0.00 / 0.00
Widened Structural Spread Rate	275
Widened Friction Course Spread Rate	165

Pay item	Description	<b>Quantity Unit</b>	Unit Price	Extended Amount
160-4	TYPE B STABILIZATION	3,560.01 SY	\$21.48	\$76,469.01
285-709	OPTIONAL BASE,BASE GROUP 09	3,010.62 SY	\$58.67	\$176,633.08
327-70-5	MILLING EXIST ASPH PAVT, 2" AVG DEPTH	14,650.24 SY	\$7.52	\$110,169.80
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	1,208.64 TN	\$188.86	\$228,263.75
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	402.88 TN	\$188.86	\$76,087.92
337-7-83	ASPH CONC FC,TRAFFIC C,FC- 12.5,PG 76-22	586.01 TN	\$206.53	\$121,028.65

337-7-83 ASPH CONC FC,TRAFFIC C,FC-12.5,PG 76-22 241.73 TN \$206.53 \$49,924.50

# **Pavement Marking Subcomponent**

Description	Value
Include Thermo/Tape/Other	N
Pavement Type	Asphalt
Solid Stripe No. of Paint Applications	2
Solid Stripe No. of Stripes	4
Skip Stripe No. of Paint Applications	2
Skip Stripe No. of Stripes	4

# Pay Items

Pay item	Description	<b>Quantity Unit</b>	Unit Price	Extended Amount
706-1-3	RAISED PAVMT MARK, TYPE B	140.00 EA	\$4.96	\$694.40
710-11-101	PAINTED PAVT MARK,STD,WHITE,SOLID,6"	1.66 GM	\$1,448.71	\$2,404.86
710-11-131	PAINTED PAVT MARK,STD,WHITE,SKIP, 6"	1.66 GM	\$598.83	\$994.06
	Roadway Component Total			\$842,670.03

#### SHOULDER COMPONENT

# **User Input Data**

Description	Value
Existing Total Outside Shoulder Width L/R	17.50 / 17.50
New Total Outside Shoulder Width L/R	17.25 / 17.25
Total Outside Shoulder Perf. Turf Width L/R	5.00 / 5.00
Sidewalk Width L/R	10.00 / 10.00

# Pay Items

Pay item	Description	<b>Quantity Unit</b>	Unit Price Ext	tended Amount
520-1-10	CONCRETE CURB & GUTTER, TYPE F	1,098.77 LF	\$49.20	\$54,059.48
520-1-10	CONCRETE CURB & GUTTER, TYPE F	1,098.77 LF	\$49.20	\$54,059.48
522-1	CONCRETE SIDEWALK AND DRIVEWAYS, 4"	2,441.71 SY	\$81.67	\$199,414.46
570-1-1	PERFORMANCE TURF	1,220.85 SY	\$6.88	\$8,399.45

# **Erosion Control**

,				
Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
104-10-3	SEDIMENT BARRIER	2,197.54 LF	\$3.32	\$7,295.83
104-11	FLOATING TURBIDITY BARRIER	20.81 LF	\$15.96	\$332.13
104-12	STAKED TURBIDITY BARRIER- NYL REINF PVC	20.81 LF	\$19.18	\$399.14
104-15	SOIL TRACKING PREVENTION DEVICE	1.00 EA	\$4,709.30	\$4,709.30
104-18	INLET PROTECTION SYSTEM	10.00 EA	\$192.13	\$1,921.30
107-1	LITTER REMOVAL	1.81 AC	\$57.63	\$104.31
107-2	MOWING	1.81 AC	\$88.49	\$160.17
	Shoulder Component Total			\$330,855.05

# MEDIAN COMPONENT

**User Input Data** 

Pay Items

Description	Value
Total Median Width	22.00
Performance Turf Width	5.34

Pay Items				
Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	Extended Amount
520-1-10	CONCRETE CURB & GUTTER, TYPE F	2,197.54 LF	\$49.20	\$108,118.97
570-1-1	PERFORMANCE TURF	651.94 SY	\$6.88	\$4,485.35
	Median Component Total			\$112,604.32

#### **DRAINAGE COMPONENT**

Pay Items				
Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
425-1-351	INLETS, CURB, TYPE P-5, <10'	8.00 EA	\$9,714.08	\$77,712.64
425-1-451	INLETS, CURB, TYPE J-5, <10'	3.00 EA	\$12,357.67	\$37,073.01
430-175-124	PIPE CULV, OPT MATL, ROUND, 24"S/CD	120.00 LF	\$228.01	\$27,361.20
430-175-136	PIPE CULV, OPT MATL, ROUND, 36"S/CD	40.00 LF	\$310.89	\$12,435.60
570-1-1	PERFORMANCE TURF	63.26 SY	\$6.88	\$435.23
	Drainage Component Total			\$155,017.68

#### **SIGNING COMPONENT**

Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
700-1-111	SINGLE COL GRND SIGN AS, F&I GM, <12 SF	5.00 EA	\$533.45	\$2,667.25
700-1-112	SINGLE COL GRND SIGN AS, F&I GM, 12-20	1.00 EA	\$1,918.21	\$1,918.21
700-1-500	SINGLE COL GRND SIGN AS, RELOCATE	1.00 EA	\$348.10	\$348.10
700-1-600	SINGLE COL GRND SIGN AS, REMOVE	5.00 EA	\$58.36	\$291.80
700-2-114	MULTI- COLUMN SIGN, F&I GM, 30.1-50 SF	1.00 EA	\$8,985.18	\$8,985.18
700-2-600	MULTI- COLUMN GROUND SIGN, REMOVE	1.00 EA	\$1,238.78	\$1,238.78
X-Items				
Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
700-2-116	MULTI- COLUMN SIGN, F&I GM, 100.1-200 SF	2.00 EA	\$17,590.91	\$35,181.82
700-3-206	SIGN PANEL, F&I OM, 101-200 SF	4.00 EA	\$10,172.19	\$40,688.76
700-4-114	OH STATIC SIGN STR, F&I, C 41- 50 FT	4.00 EA	\$182,265.02	\$729,060.08
	Signing Component Total			\$820,379.98

# SIGNALIZATIONS COMPONENT

Description

660-1-102

660-2-106

665-1-11

670-5-111

700-3-101

Signalization 1 Description Type Multiplier

Value 6 Lane Mast Arm

Pay Items				
Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
630-2-11	CONDUIT, F& I, OPEN TRENCH	700.00 LF	\$24.85	\$17,395.00
630-2-12	CONDUIT, F& I, DIRECTIONAL BORE	300.00 LF	\$40.59	\$12,177.00
632-7-1	SIGNAL CABLE- NEW OR RECO, FUR & INSTALL	1.00 PI	\$13,923.07	\$13,923.07
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24"	22.00 EA	\$1,708.32	\$37,583.04
639-1-112	ELECTRICAL POWER SRV,F&I,OH,M,PUR BY CON	1.00 AS	\$7,134.25	\$7,134.25
639-2-1	ELECTRICAL SERVICE WIRE, F&I	60.00 LF	\$12.20	\$732.00
641-2-11	PREST CNC POLE,F&I,TYP P-II,PEDESTAL	1.00 EA	\$2,478.21	\$2,478.21
649-21-21	STEEL MAST ARM ASSEMBLY, F&I, 78'	6.00 EA	\$114,308.63	\$685,851.78
650-1-14	VEH TRAF SIGNAL,F&I ALUMINUM, 3 S 1 W	20.00 AS	\$1,917.46	\$38,349.20
653-1-11	PEDESTRIAN SIGNAL, F&I LED COUNT, 1 WAY	8.00 AS	\$1,277.10	\$10,216.80

1.00 AS \$49,929.96 \$49,929.96 **PREEMPT** SIGN PANEL, F&I GM, UP TO 12 4.00 EA \$294.26 \$1,177.04

20.00 EA

20.00 AS

8.00 EA

\$766.00

\$449.78

\$1,793.71

\$15,320.00

\$35,874.20

\$3,598.24

\$931,739.79

# LIGHTING COMPONENT

## **Conventional Lighting Subcomponent**

COUNT, 1 WAY

F&I, TYPE 2

STANDARD

LOOP DETECTOR INDUCTIVE,

LOOP ASSEMBLY, F&I, TYPE F

PEDESTRIAN DETECTOR, F&I,

TRAF CNTL ASSEM, F&I, NEMA, 1

**Signalizations Component Total** 

<b>Description</b> Spacing				<b>Value</b> MIN
Pay Items				Will
Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
630-2-11	CONDUIT, F& I, OPEN TRENCH	1,098.77 LF	\$24.85	\$27,304.43
630-2-12	CONDUIT, F& I, DIRECTIONAL BORE	218.09 LF	\$40.59	\$8,852.27
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24"	8.00 EA	\$1,708.32	\$13,666.56
715-1-13	LIGHTING CONDUCTORS, F&I, INSUL, NO.4-2	4,013.00 LF	\$6.55	\$26,285.15
715-61-342	LIGHT POLE CMPLT,STD,F&I, 40'MH,12'ARM L	8.00 EA	\$10,451.34	\$83,610.72
715-500-1	POLE CABLE DIST SYS, CONVENTIONAL	8.00 EA	\$1,175.12	\$9,400.96
	Subcomponent Total			\$169,120.10
	Lighting Component Total			\$169,120.09

**Sequence 15 Total** \$3,447,307.66

Sequence: 16 WDU - Widen/Resurface, Divided, Urban

Net Length:

0.099 MI
521 LF

**Description:** cross road urban section (under turnpike)

#### **EARTHWORK COMPONENT**

## **User Input Data**

Description	Value
Standard Clearing and Grubbing Limits L/R	25.00 / 25.00
Incidental Clearing and Grubbing Area	0.00
Alignment Number	1
Distance	0.099
Top of Structural Course For Begin Section	102.00
Top of Structural Course For End Section	102.00
Horizontal Elevation For Begin Section	100.00
Horizontal Elevation For End Section	100.00

Horizontal Elevation For End Section 100.00

Existing Front Slope L/R 6 to 1 / 6 to 1

Existing Median Shoulder Cross Slope L/R 4.00 % / 4.00 %

Existing Outside Shoulder Cross Slope L/R 2.00 % / 2.00 %

Front Slope L/R 6 to 1 / 6 to 1

Median Shoulder Cross Slope L/R 4.00 % / 4.00 %

Outside Shoulder Cross Slope L/R 2.00 % / 2.00 %

Roadway Cross Slope L/R 2.00 % / 2.00 %

#### Pay Items

Pay item	Description	Quantity Unit	Unit Price E	Extended Amount
110-1-1	CLEARING & GRUBBING	0.60 AC	\$61,068.42	\$36,641.05
	Earthwork Component Total			\$36,641.05

### **ROADWAY COMPONENT**

#### **User Input Data**

Description	Value
Number of Lanes	6
Existing Roadway Pavement Width L/R	72.00 / 60.00
Structural Spread Rate	165
Friction Course Spread Rate	80
Widened Outside Pavement Width L/R	0.00 / 0.00
Widened Inside Pavement Width L/R	0.00 / 0.00
Widened Structural Spread Rate	275
Widened Friction Course Spread Rate	165

#### Pay Items

Pay item	Description	<b>Quantity Unit</b>	Unit Price E	xtended Amount
327-70-5	MILLING EXIST ASPH PAVT, 2" AVG DEPTH	7,643.33 SY	\$7.52	\$57,477.84
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	630.57 TN	\$188.86	\$119,089.45
337-7-83	ASPH CONC FC,TRAFFIC C,FC- 12.5,PG 76-22	305.73 TN	\$206.53	\$63,142.42

#### **Pavement Marking Subcomponent**

Description	Value
Include Thermo/Tape/Other	N
Pavement Type	Asphalt
Solid Stripe No. of Paint Applications	2
Solid Stripe No. of Stripes	4

Skip Stripe No. of Paint Applications 2
Skip Stripe No. of Stripes 4

Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	Extended Amount
706-1-3	RAISED PAVMT MARK, TYPE B	67.00 EA	\$4.96	\$332.32
710-11-101	PAINTED PAVT MARK,STD,WHITE,SOLID,6"	0.79 GM	\$1,448.71	\$1,144.48
710-11-131	PAINTED PAVT MARK,STD,WHITE,SKIP, 6"	0.79 GM	\$598.83	\$473.08
	Roadway Component Total			\$241,659.59

#### SHOULDER COMPONENT

# **User Input Data**

Description	Value
Existing Total Outside Shoulder Width L/R	16.50 / 16.50
New Total Outside Shoulder Width L/R	16.25 / 16.25
Total Outside Shoulder Perf. Turf Width L/R	4.00 / 4.00
Sidewalk Width L/R	10.00 / 10.00

# Pay Items

Pay item	Description	<b>Quantity Unit</b>	Unit Price Exten	ded Amount
520-1-10	CONCRETE CURB & GUTTER, TYPE F	521.14 LF	\$49.20	\$25,640.09
520-1-10	CONCRETE CURB & GUTTER, TYPE F	521.14 LF	\$49.20	\$25,640.09
522-1	CONCRETE SIDEWALK AND DRIVEWAYS, 4"	1,158.08 SY	\$81.67	\$94,580.39
570-1-1	PERFORMANCE TURF	463.23 SY	\$6.88	\$3,187.02

# **Erosion Control**

### Pay Items

i dy itellis				
Pay item	Description	<b>Quantity Unit</b>	Unit Price E	xtended Amount
104-10-3	SEDIMENT BARRIER	1,042.27 LF	\$3.32	\$3,460.34
104-11	FLOATING TURBIDITY BARRIER	9.87 LF	\$15.96	\$157.53
104-12	STAKED TURBIDITY BARRIER- NYL REINF PVC	9.87 LF	\$19.18	\$189.31
104-15	SOIL TRACKING PREVENTION DEVICE	1.00 EA	\$4,709.30	\$4,709.30
104-18	INLET PROTECTION SYSTEM	5.00 EA	\$192.13	\$960.65
107-1	LITTER REMOVAL	0.86 AC	\$57.63	\$49.56
107-2	MOWING	0.86 AC	\$88.49	\$76.10
	Shoulder Component Total			\$158,650.38

#### **DRAINAGE COMPONENT**

Pay Items				
Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
425-1-351	INLETS, CURB, TYPE P-5, <10'	4.00 EA	\$9,714.08	\$38,856.32
425-1-451	INLETS, CURB, TYPE J-5, <10'	1.00 EA	\$12,357.67	\$12,357.67
430-175-124	PIPE CULV, OPT MATL, ROUND, 24"S/CD	56.00 LF	\$228.01	\$12,768.56

	Drainage Component Total			\$69,163.19
570-1-1	PERFORMANCE TURF	30.00 SY	\$6.88	\$206.40
430-175-136	PIPE CULV, OPT MATL, ROUND, 36"S/CD	16.00 LF	\$310.89	\$4,974.24

# **SIGNING COMPONENT**

Pay Items				
Pay item	Description	<b>Quantity Unit</b>	Unit Price E	xtended Amount
700-1-111	SINGLE COL GRND SIGN AS, F&I GM, <12 SF	3.00 EA	\$533.45	\$1,600.35
700-1-112	SINGLE COL GRND SIGN AS, F&I GM, 12-20	1.00 EA	\$1,918.21	\$1,918.21
700-1-500	SINGLE COL GRND SIGN AS, RELOCATE	1.00 EA	\$348.10	\$348.10
700-1-600	SINGLE COL GRND SIGN AS, REMOVE	3.00 EA	\$58.36	\$175.08
700-2-114	MULTI- COLUMN SIGN, F&I GM, 30.1-50 SF	1.00 EA	\$8,985.18	\$8,985.18
700-2-600	MULTI- COLUMN GROUND SIGN, REMOVE	1.00 EA	\$1,238.78	\$1,238.78
	Signing Component Total			\$14,265.70

#### LIGHTING COMPONENT

Conventional	Lighting	Subcomponent

Description Spacing Pay Items				<b>Value</b> MAX
Pay item	Description	Quantity Unit	Unit Price	Extended Amount
630-2-11	CONDUIT, F& I, OPEN TRENCH	521.14 LF	\$24.85	\$12,950.33
630-2-12	CONDUIT, F& I, DIRECTIONAL BORE	68.00 LF	\$40.59	\$2,760.12
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24"	3.00 EA	\$1,708.32	\$5,124.96
715-1-13	LIGHTING CONDUCTORS, F&I, INSUL, NO.4-2	1,767.42 LF	\$6.55	\$11,576.60
715-61-342	LIGHT POLE CMPLT,STD,F&I, 40'MH,12'ARM L	3.00 EA	\$10,451.34	\$31,354.02
715-500-1	POLE CABLE DIST SYS, CONVENTIONAL	3.00 EA	\$1,175.12	\$3,525.36
	Subcomponent Total			\$67,291.39
	Lighting Component Total			\$67,291.39
Sequence 16	Total			\$587,671.30

Sequence: 17 WDU - Widen/Resurface, Divided, Urban

Net Length:

0.224 MI
1,185 LF

**Description:** cross road urban section (end project)

#### **EARTHWORK COMPONENT**

### **User Input Data**

Description	Value
Standard Clearing and Grubbing Limits L/R	25.00 / 25.00
Incidental Clearing and Grubbing Area	0.00
Alignment Number	1
	<u> </u>
Distance	0.224
Top of Structural Course For Begin Section	102.00
Top of Structural Course For End Section	102.00
Horizontal Elevation For Begin Section	100.00
Horizontal Elevation For End Section	100.00
Existing Front Slope L/R	6 to 1 / 6 to 1
Existing Median Shoulder Cross Slope L/R	4.00 % / 4.00 %
Existing Outside Shoulder Cross Slope L/R	2.00 % / 2.00 %
Front Slope L/R	6 to 1 / 6 to 1
Median Shoulder Cross Slope L/R	4.00 % / 4.00 %

#### Pay Items

Outside Shoulder Cross Slope L/R

Roadway Cross Slope L/R

,				
Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
110-1-1	CLEARING & GRUBBING	1.36 AC	\$61,068.42	\$83,053.05
120-2-2	BORROW EXCAVATION, TRUCK MEASURE	434.54 CY	\$53.86	\$23,404.32
	Earthwork Component Total			\$106,457.37

#### **ROADWAY COMPONENT**

# **User Input Data**

Description	Value
Number of Lanes	6
Existing Roadway Pavement Width L/R	60.00 / 60.00
Structural Spread Rate	165
Friction Course Spread Rate	80
Widened Outside Pavement Width L/R	12.00 / 12.00
Widened Inside Pavement Width L/R	0.00 / 0.00
Widened Structural Spread Rate	275
Widened Friction Course Spread Rate	165

# Pay Items

Pay item	Description	<b>Quantity Unit</b>	Unit Price	<b>Extended Amount</b>
160-4	TYPE B STABILIZATION	3,838.86 SY	\$21.48	\$82,458.71
285-709	OPTIONAL BASE,BASE GROUP 09	3,246.44 SY	\$58.67	\$190,468.63
327-70-5	MILLING EXIST ASPH PAVT, 2" AVG DEPTH	15,797.76 SY	\$7.52	\$118,799.16
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	1,303.32 TN	\$188.86	\$246,145.02
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	434.44 TN	\$188.86	\$82,048.34
337-7-83	ASPH CONC FC,TRAFFIC C,FC- 12.5,PG 76-22	631.91 TN	\$206.53	\$130,508.37

2.00 % / 2.00 %

2.00 % / 2.00 %

337-7-83 ASPH CONC FC,TRAFFIC C,FC-12.5,PG 76-22 260.66 TN \$206.53 \$53,834.11

# **Pavement Marking Subcomponent**

Description	Value
Include Thermo/Tape/Other	N
Pavement Type	Asphalt
Solid Stripe No. of Paint Applications	2
Solid Stripe No. of Stripes	4
Skip Stripe No. of Paint Applications	2
Skip Stripe No. of Stripes	4

# Pay Items

Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	Extended Amount
706-1-3	RAISED PAVMT MARK, TYPE B	151.00 EA	\$4.96	\$748.96
710-11-101	PAINTED PAVT MARK,STD,WHITE,SOLID,6"	1.80 GM	\$1,448.71	\$2,607.68
710-11-131	PAINTED PAVT MARK,STD,WHITE,SKIP, 6"	1.80 GM	\$598.83	\$1,077.89
	Roadway Component Total			\$908,696.87

# SHOULDER COMPONENT

# **User Input Data**

Description	Value
Existing Total Outside Shoulder Width L/R	17.00 / 17.00
New Total Outside Shoulder Width L/R	17.25 / 17.25
Total Outside Shoulder Perf. Turf Width L/R	5.00 / 5.00
Sidewalk Width L/R	10.00 / 10.00

# Pay Items

Pay item	Description	<b>Quantity Unit</b>	Unit Price Ext	tended Amount
520-1-10	CONCRETE CURB & GUTTER, TYPE F	1,184.83 LF	\$49.20	\$58,293.64
520-1-10	CONCRETE CURB & GUTTER, TYPE F	1,184.83 LF	\$49.20	\$58,293.64
522-1	CONCRETE SIDEWALK AND DRIVEWAYS, 4"	2,632.96 SY	\$81.67	\$215,033.84
570-1-1	PERFORMANCE TURF	1,316.48 SY	\$6.88	\$9,057.38

# **Erosion Control**

Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
104-10-3	SEDIMENT BARRIER	2,369.66 LF	\$3.32	\$7,867.27
104-11	FLOATING TURBIDITY BARRIER	22.44 LF	\$15.96	\$358.14
104-12	STAKED TURBIDITY BARRIER- NYL REINF PVC	22.44 LF	\$19.18	\$430.40
104-15	SOIL TRACKING PREVENTION DEVICE	1.00 EA	\$4,709.30	\$4,709.30
104-18	INLET PROTECTION SYSTEM	11.00 EA	\$192.13	\$2,113.43
107-1	LITTER REMOVAL	1.96 AC	\$57.63	\$112.95
107-2	MOWING	1.96 AC	\$88.49	\$173.44
	Shoulder Component Total			\$356,443.43

# MEDIAN COMPONENT

**User Input Data** 

Description	Value
Total Median Width	22.00
Performance Turf Width	5.34

Pay Items
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Pay item	Description	<b>Quantity Unit</b>	Unit Price Ex	tended Amount
520-1-10	CONCRETE CURB & GUTTER, TYPE F	2,369.66 LF	\$49.20	\$116,587.27
570-1-1	PERFORMANCE TURF	703.00 SY	\$6.88	\$4,836.64
	Median Component Total			\$121,423.91

#### **DRAINAGE COMPONENT**

Pay Items				
Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
425-1-351	INLETS, CURB, TYPE P-5, <10'	9.00 EA	\$9,714.08	\$87,426.72
425-1-451	INLETS, CURB, TYPE J-5, <10'	3.00 EA	\$12,357.67	\$37,073.01
430-175-124	PIPE CULV, OPT MATL, ROUND, 24"S/CD	128.00 LF	\$228.01	\$29,185.28
430-175-136	PIPE CULV, OPT MATL, ROUND, 36"S/CD	40.00 LF	\$310.89	\$12,435.60
570-1-1	PERFORMANCE TURF	68.22 SY	\$6.88	\$469.35
	Drainage Component Total			\$166,589.96

#### **SIGNING COMPONENT**

Pay Items				
Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
700-1-111	SINGLE COL GRND SIGN AS, F&I GM, <12 SF	5.00 EA	\$533.45	\$2,667.25
700-1-112	SINGLE COL GRND SIGN AS, F&I GM, 12-20	1.00 EA	\$1,918.21	\$1,918.21
700-1-500	SINGLE COL GRND SIGN AS, RELOCATE	1.00 EA	\$348.10	\$348.10
700-1-600	SINGLE COL GRND SIGN AS, REMOVE	5.00 EA	\$58.36	\$291.80
700-2-114	MULTI- COLUMN SIGN, F&I GM, 30.1-50 SF	1.00 EA	\$8,985.18	\$8,985.18
700-2-600	MULTI- COLUMN GROUND SIGN, REMOVE	1.00 EA	\$1,238.78	\$1,238.78
	Signing Component Total			\$15,449.32

# SIGNALIZATIONS COMPONENT

Signalization 1

0.9	
Description	Value
Туре	6 Lane Mast Arm
Multiplier	2
Description	

Pay item	Description	<b>Quantity Unit</b>	Unit Price	Extended Amount
630-2-11	CONDUIT, F& I, OPEN TRENCH	1,400.00 LF	\$24.85	\$34,790.00
630-2-12	CONDUIT, F& I, DIRECTIONAL BORE	600.00 LF	\$40.59	\$24,354.00
632-7-1	SIGNAL CABLE- NEW OR RECO, FUR & INSTALL	2.00 PI	\$13,923.07	\$27,846.14
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24"	44.00 EA	\$1,708.32	\$75,166.08
639-1-112	ELECTRICAL POWER SRV,F&I,OH,M,PUR BY CON	2.00 AS	\$7,134.25	\$14,268.50
639-2-1	ELECTRICAL SERVICE WIRE, F&I	120.00 LF	\$12.20	\$1,464.00
641-2-11	PREST CNC POLE,F&I,TYP P-II,PEDESTAL	2.00 EA	\$2,478.21	\$4,956.42
649-21-21	STEEL MAST ARM ASSEMBLY, F&I, 78'	12.00 EA	\$114,308.63	\$1,371,703.56
650-1-14	VEH TRAF SIGNAL,F&I ALUMINUM, 3 S 1 W	40.00 AS	\$1,917.46	\$76,698.40
653-1-11	PEDESTRIAN SIGNAL, F&I LED COUNT, 1 WAY	16.00 AS	\$1,277.10	\$20,433.60
660-1-102	LOOP DETECTOR INDUCTIVE, F&I, TYPE 2	40.00 EA	\$766.00	\$30,640.00
660-2-106	LOOP ASSEMBLY, F&I, TYPE F	40.00 AS	\$1,793.71	\$71,748.40
665-1-11	PEDESTRIAN DETECTOR, F&I, STANDARD	16.00 EA	\$449.78	\$7,196.48
670-5-111	TRAF CNTL ASSEM, F&I, NEMA, 1 PREEMPT	2.00 AS	\$49,929.96	\$99,859.92
700-3-101	SIGN PANEL, F&I GM, UP TO 12 SF	8.00 EA	\$294.26	\$2,354.08
	Signalizations Component Total			\$1,863,479.58

# LIGHTING COMPONENT

Description Spacing Pay Items				<b>Value</b> MIN
Pay item	Description	Quantity Unit	Unit Price	Extended Amount
630-2-11	CONDUIT, F& I, OPEN TRENCH	1,184.83 LF	\$24.85	\$29,443.03
630-2-12	CONDUIT, F& I, DIRECTIONAL BORE	235.17 LF	\$40.59	\$9,545.55
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24"	8.00 EA	\$1,708.32	\$13,666.56
715-1-13	LIGHTING CONDUCTORS, F&I, INSUL, NO.4-2	4,327.33 LF	\$6.55	\$28,344.01
715-61-342	LIGHT POLE CMPLT,STD,F&I, 40'MH,12'ARM L	8.00 EA	\$10,451.34	\$83,610.72
715-500-1	POLE CABLE DIST SYS, CONVENTIONAL	8.00 EA	\$1,175.12	\$9,400.96
	Subcomponent Total			\$174,010.83
	Lighting Component Total			\$174,010.83

Sequence 17 Total

\$3,712,551.27

Sequence: 18 WDU - Widen/Resurface, Divided, Urban

Net Length:

0.049 MI
260 LF

**Description:** crossings blvd

#### **EARTHWORK COMPONENT**

## **User Input Data**

Description	Value
Standard Clearing and Grubbing Limits L/R	12.00 / 0.00
Incidental Clearing and Grubbing Area	0.00
Alignment Number	1
Distance	0.049
Top of Structural Course For Begin Section	102.00
Top of Structural Course For End Section	102.00
Horizontal Elevation For Begin Section	100.00
Horizontal Elevation For End Section	100.00
Existing Front Slope L/R	6 to 1 / 6 to 1
Existing Median Shoulder Cross Slope L/R	4.00 % / 4.00 %
Existing Outside Shoulder Cross Slope L/R	2.00 % / 2.00 %

#### Pay Items

Front Slope L/R

Median Shoulder Cross Slope L/R

Outside Shoulder Cross Slope L/R Roadway Cross Slope L/R

Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
110-1-1	CLEARING & GRUBBING	0.07 AC	\$61,068.42	\$4,274.79
120-1	REGULAR EXCAVATION	400.35 CY	\$104.30	\$41,756.50
	Earthwork Component Total			\$46,031.30

#### **ROADWAY COMPONENT**

### **User Input Data**

Description	Value
Number of Lanes	6
Existing Roadway Pavement Width L/R	36.00 / 36.00
Structural Spread Rate	165
Friction Course Spread Rate	80
Widened Outside Pavement Width L/R	0.00 / 0.00
Widened Inside Pavement Width L/R	0.00 / 12.00
Widened Structural Spread Rate	275
Widened Friction Course Spread Rate	165

# Pay Items

Pay item	Description	<b>Quantity Unit</b>	Unit Price E	Extended Amount
160-4	TYPE B STABILIZATION	420.84 SY	\$21.48	\$9,039.64
285-709	OPTIONAL BASE,BASE GROUP 09	355.89 SY	\$58.67	\$20,880.07
327-70-5	MILLING EXIST ASPH PAVT, 2" AVG DEPTH	2,078.21 SY	\$7.52	\$15,628.14
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	171.45 TN	\$188.86	\$32,380.05
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	47.63 TN	\$188.86	\$8,995.40
337-7-83	ASPH CONC FC,TRAFFIC C,FC- 12.5,PG 76-22	83.13 TN	\$206.53	\$17,168.84
337-7-83	ASPH CONC FC,TRAFFIC C,FC- 12.5,PG 76-22	28.58 TN	\$206.53	\$5,902.63

6 to 1 / 6 to 1

4.00 % / 4.00 % 2.00 % / 2.00 %

2.00 % / 2.00 %

# **Pavement Marking Subcomponent**

Description	Value
Include Thermo/Tape/Other	N
Pavement Type	Asphalt
Solid Stripe No. of Paint Applications	2
Solid Stripe No. of Stripes	4
Skip Stripe No. of Paint Applications	2
Skip Stripe No. of Stripes	4

# Pay Items

Pay item	Description	<b>Quantity Unit</b>	Unit Price E	xtended Amount
706-1-3	RAISED PAVMT MARK, TYPE B	33.00 EA	\$4.96	\$163.68
710-11-101	PAINTED PAVT MARK,STD,WHITE,SOLID,6"	0.39 GM	\$1,448.71	\$565.00
710-11-131	PAINTED PAVT MARK,STD,WHITE,SKIP, 6"	0.39 GM	\$598.83	\$233.54
	Roadway Component Total			\$110,956.99

#### SHOULDER COMPONENT

# **User Input Data**

Description	Value
Existing Total Outside Shoulder Width L/R	0.00 / 0.00
New Total Outside Shoulder Width L/R	0.00 / 0.00
Total Outside Shoulder Perf. Turf Width L/R	0.00 / 0.00
Sidewalk Width L/R	0.00 / 0.00

#### **Erosion Control**

## Pay Items

,				
Pay item	Description	Quantity Unit	<b>Unit Price</b>	Extended Amount
104-10-3	SEDIMENT BARRIER	519.55 LF	\$3.32	\$1,724.91
104-11	FLOATING TURBIDITY BARRIER	4.92 LF	\$15.96	\$78.52
104-12	STAKED TURBIDITY BARRIER- NYL REINF PVC	4.92 LF	\$19.18	\$94.37
104-15	SOIL TRACKING PREVENTION DEVICE	1.00 EA	\$4,709.30	\$4,709.30
104-18	INLET PROTECTION SYSTEM	3.00 EA	\$192.13	\$576.39
107-1	LITTER REMOVAL	0.43 AC	\$57.63	\$24.78
107-2	MOWING	0.43 AC	\$88.49	\$38.05
	Shoulder Component Total			\$7,246.32

# **MEDIAN COMPONENT**

# **User Input Data**

Description	Value
Total Median Width	22.00
Performance Turf Width	5.34

Pay item	Description	<b>Quantity Unit</b>	Unit Price E	xtended Amount
520-1-10	CONCRETE CURB & GUTTER, TYPE F	519.55 LF	\$49.20	\$25,561.86
570-1-1	PERFORMANCE TURF	154.13 SY	\$6.88	\$1,060.41

\$26,622.27

# **DRAINAGE COMPONENT**

Pay Items				
Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
425-1-351	INLETS, CURB, TYPE P-5, <10'	2.00 EA	\$9,714.08	\$19,428.16
425-1-451	INLETS, CURB, TYPE J-5, <10'	1.00 EA	\$12,357.67	\$12,357.67
430-175-124	PIPE CULV, OPT MATL, ROUND, 24"S/CD	32.00 LF	\$228.01	\$7,296.32
430-175-136	PIPE CULV, OPT MATL, ROUND, 36"S/CD	8.00 LF	\$310.89	\$2,487.12
570-1-1	PERFORMANCE TURF	14.96 SY	\$6.88	\$102.92
	Drainage Component Total			\$41,672.19

# SIGNING COMPONENT

		OIILIII		
Pay Items				
Pay item	Description	<b>Quantity Unit</b>	Unit Price E	xtended Amount
700-1-111	SINGLE COL GRND SIGN AS, F&I GM, <12 SF	2.00 EA	\$533.45	\$1,066.90
700-1-112	SINGLE COL GRND SIGN AS, F&I GM, 12-20	1.00 EA	\$1,918.21	\$1,918.21
700-1-500	SINGLE COL GRND SIGN AS, RELOCATE	1.00 EA	\$348.10	\$348.10
700-1-600	SINGLE COL GRND SIGN AS, REMOVE	2.00 EA	\$58.36	\$116.72
700-2-114	MULTI- COLUMN SIGN, F&I GM, 30.1-50 SF	1.00 EA	\$8,985.18	\$8,985.18
700-2-600	MULTI- COLUMN GROUND SIGN, REMOVE	1.00 EA	\$1,238.78	\$1,238.78
	Signing Component Total			\$13,673.89
Sequence 18 1	<b>Total</b>			\$246,202.96

Sequence: 19 WDU - Widen/Resurface, Divided, Urban

Net Length:

0.095 MI
501 LF

**Description:** northpointe parkway

#### **EARTHWORK COMPONENT**

## **User Input Data**

Description	Value
Standard Clearing and Grubbing Limits L/R	12.00 / 0.00
Incidental Clearing and Grubbing Area	0.00
Alignment Number	1
Distance	0.095
Top of Structural Course For Begin Section	102.00
Top of Structural Course For End Section	102.00
Horizontal Elevation For Begin Section	100.00
Horizontal Elevation For End Section	100.00
Existing Front Slope L/R	6 to 1 / 6 to 1
Existing Median Shoulder Cross Slope L/R	4.00 % / 4.00 %
Existing Outside Shoulder Cross Slope L/R	2.00 % / 2.00 %
Front Slope L/R	6 to 1 / 6 to 1
Median Shoulder Cross Slope L/R	4.00 % / 4.00 %
Outside Shoulder Cross Slope L/R	2.00 % / 2.00 %

#### Pay Items

Roadway Cross Slope L/R

Pay item	Description	<b>Quantity Unit</b>	Unit Price	Extended Amount
110-1-1	CLEARING & GRUBBING	0.14 AC	\$61,068.42	\$8,549.58
120-1	REGULAR EXCAVATION	776.18 CY	\$104.30	\$80,955.57
	Earthwork Component Total			\$89,505.15

#### **ROADWAY COMPONENT**

# **User Input Data**

Description	Value
Number of Lanes	6
Existing Roadway Pavement Width L/R	36.00 / 36.00
Structural Spread Rate	165
Friction Course Spread Rate	80
Widened Outside Pavement Width L/R	0.00 / 0.00
Widened Inside Pavement Width L/R	0.00 / 12.00
Widened Structural Spread Rate	275
Widened Friction Course Spread Rate	165

# Pay Items

Pay item	Description	<b>Quantity Unit</b>	Unit Price Ex	ctended Amount
160-4	TYPE B STABILIZATION	811.74 SY	\$21.48	\$17,436.18
285-709	OPTIONAL BASE,BASE GROUP 09	686.47 SY	\$58.67	\$40,275.19
327-70-5	MILLING EXIST ASPH PAVT, 2" AVG DEPTH	4,008.58 SY	\$7.52	\$30,144.52
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	330.71 TN	\$188.86	\$62,457.89
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	91.86 TN	\$188.86	\$17,348.68
337-7-83	ASPH CONC FC,TRAFFIC C,FC- 12.5,PG 76-22	160.34 TN	\$206.53	\$33,115.02
337-7-83	ASPH CONC FC,TRAFFIC C,FC- 12.5,PG 76-22	55.12 TN	\$206.53	\$11,383.93

2.00 % / 2.00 %

# **Pavement Marking Subcomponent**

Description	Value
Include Thermo/Tape/Other	N
Pavement Type	Asphalt
Solid Stripe No. of Paint Applications	2
Solid Stripe No. of Stripes	4
Skip Stripe No. of Paint Applications	2
Skip Stripe No. of Stripes	4

# Pay Items

Pay item	Description	Quantity Unit	Unit Price I	Extended Amount
706-1-3	RAISED PAVMT MARK, TYPE B	64.00 EA	\$4.96	\$317.44
710-11-101	PAINTED PAVT MARK,STD,WHITE,SOLID,6"	0.76 GM	\$1,448.71	\$1,101.02
710-11-131	PAINTED PAVT MARK,STD,WHITE,SKIP, 6"	0.76 GM	\$598.83	\$455.11
	Roadway Component Total			\$214,034.98

#### SHOULDER COMPONENT

# **User Input Data**

Description	Value
Existing Total Outside Shoulder Width L/R	0.00 / 0.00
New Total Outside Shoulder Width L/R	0.00 / 0.00
Total Outside Shoulder Perf. Turf Width L/R	0.00 / 0.00
Sidewalk Width L/R	0.00 / 0.00

# **Erosion Control**

## Pay Items

,				
Pay item	Description	Quantity Unit	Unit Price	Extended Amount
104-10-3	SEDIMENT BARRIER	1,002.14 LF	\$3.32	\$3,327.10
104-11	FLOATING TURBIDITY BARRIER	9.49 LF	\$15.96	\$151.46
104-12	STAKED TURBIDITY BARRIER- NYL REINF PVC	9.49 LF	\$19.18	\$182.02
104-15	SOIL TRACKING PREVENTION DEVICE	1.00 EA	\$4,709.30	\$4,709.30
104-18	INLET PROTECTION SYSTEM	5.00 EA	\$192.13	\$960.65
107-1	LITTER REMOVAL	0.83 AC	\$57.63	\$47.83
107-2	MOWING	0.83 AC	\$88.49	\$73.45
	Shoulder Component Total			\$9,451.81

# **MEDIAN COMPONENT**

# **User Input Data**

Description	Value
Total Median Width	22.00
Performance Turf Width	5.34

Pay item	Description	<b>Quantity Unit</b>	Unit Price I	Extended Amount
520-1-10	CONCRETE CURB & GUTTER, TYPE F	1,002.14 LF	\$49.20	\$49,305.29
570-1-1	PERFORMANCE TURF	297.30 SY	\$6.88	\$2,045.42

\$51,350.71

# **DRAINAGE COMPONENT**

Pay Items				
Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	Extended Amount
425-1-351	INLETS, CURB, TYPE P-5, <10'	4.00 EA	\$9,714.08	\$38,856.32
425-1-451	INLETS, CURB, TYPE J-5, <10'	1.00 EA	\$12,357.67	\$12,357.67
430-175-124	PIPE CULV, OPT MATL, ROUND, 24"S/CD	56.00 LF	\$228.01	\$12,768.56
430-175-136	PIPE CULV, OPT MATL, ROUND, 36"S/CD	16.00 LF	\$310.89	\$4,974.24
570-1-1	PERFORMANCE TURF	28.85 SY	\$6.88	\$198.49
	Drainage Component Total			\$69,155.28

# SIGNING COMPONENT

Description	<b>Quantity Unit</b>	Unit Price Ex	tended Amount
SINGLE COL GRND SIGN AS, F&I GM, <12 SF	3.00 EA	\$533.45	\$1,600.35
SINGLE COL GRND SIGN AS, F&I GM, 12-20	1.00 EA	\$1,918.21	\$1,918.21
SINGLE COL GRND SIGN AS, RELOCATE	1.00 EA	\$348.10	\$348.10
SINGLE COL GRND SIGN AS, REMOVE	3.00 EA	\$58.36	\$175.08
MULTI- COLUMN SIGN, F&I GM, 30.1-50 SF	1.00 EA	\$8,985.18	\$8,985.18
MULTI- COLUMN GROUND SIGN, REMOVE	1.00 EA	\$1,238.78	\$1,238.78
Signing Component Total			\$14,265.70
otal			\$447,763.63
	SINGLE COL GRND SIGN AS, F&I GM, <12 SF SINGLE COL GRND SIGN AS, F&I GM, 12-20 SINGLE COL GRND SIGN AS, RELOCATE SINGLE COL GRND SIGN AS, REMOVE MULTI- COLUMN SIGN, F&I GM, 30.1-50 SF MULTI- COLUMN GROUND SIGN, REMOVE	SINGLE COL GRND SIGN AS, F&I GM, <12 SF SINGLE COL GRND SIGN AS, F&I GM, 12-20 SINGLE COL GRND SIGN AS, RELOCATE SINGLE COL GRND SIGN AS, REMOVE MULTI- COLUMN SIGN, F&I GM, 30.1-50 SF MULTI- COLUMN GROUND SIGN, REMOVE Signing Component Total	SINGLE COL GRND SIGN AS, F&I       3.00 EA       \$533.45         GM, <12 SF

Sequence: 20 MIS - Miscellaneous Construction

Net Length:

0.000 MI

0 LF

Description: ITS, MOC, 4% of subtotal

**MISCELLANEOUS COMPONENT** 

**EX-Items** 

Pay item Description Quantity Unit Unit Price Extended Amount

ITS ITS, MOC, 4% OF SUBTOTAL 1.00 1 \$1,129,977.00 \$1,129,977.00

Miscellaneous Component Total \$1,129,977.00

**Sequence 20 Total** \$1,129,977.00

Sequence: 21 MIS - Miscellaneous Construction

Net Length:

0.000 MI
0 LF

**Description:** Landspacing

LANDSCAPING COMPONENT

**User Input Data** 

 Description
 Value

 Lump Sum
 2,824,943.00

 Cost %
 0.00

 Component Detail
 N

**Landscaping Component Total** 

\$2,824,943.00

**Sequence 21 Total** \$2,824,943.00

Sequence: 22 MIS - Miscellaneous Construction

Net Length:

0.000 MI
0 LF

**Description:** 25% Unknown

**MISCELLANEOUS COMPONENT** 

**EX-Items** 

Pay itemDescriptionQuantity UnitUnit PriceExtended Amount25% UNKNOWN FOR INFLATION1.00 1\$7,270,661.75\$7,270,661.75

Miscellaneous Component Total \$7,270,661.75

**Sequence 22 Total** \$7,270,661.75

Date: 2/12/2025 10:49:26 AM

# FDOT Long Range Estimating System - Production R3: Project Details by Sequence Report

Project: 448068-1-22-01 Letting Date: 01/2099

Description: PD&E WIDEN SUNCOAST PKWY(SR589) - S OF VAN DYKE RD TO SR52 (MP13-29)

District: 08 County: 97 TURNPIKE Market Area: 99 Units: English

Contract Class: 3 Lump Sum Project: N Design/Build: N Project Length: 15.979 MI

Project Manager: SHARMA

Version 6 Project Grand Total \$43,495,381.10

Description: SR 54 ALT-1 TDI

Project Sequences Subtotal			\$35,822,629.01	
102-1	Maintenance of Traffic	10.00 %	\$3,582,262.90	
101-1	Mobilization	10.00 %	\$3,940,489.19	
Project Sequences Total			\$43,345,381.10	
Project Un	knowns	0.00 %	\$0.00	
Design/Bui	ild	0.00 %	\$0.00	

**Non-Bid Components:** 

Pay itemDescriptionQuantity UnitUnit PriceExtended Amount999-25INITIAL CONTINGENCY AMOUNT<br/>(DO NOT BID)LS\$150,000.00\$150,000.00Project Non-Bid Subtotal\$150,000.00

Version 6 Project Grand Total \$43,495,381.10

Date: 2/11/2025 7:01:25 PM

# FDOT Long Range Estimating System - Production R3: Project Details by Sequence Report

**Project:** 448068-1-22-01 **Letting Date:** 01/2099

Description: PD&E WIDEN SUNCOAST PKWY(SR589) - S OF VAN DYKE RD TO SR52 (MP13-29)

District: 08 County: 97 TURNPIKE Market Area: 99 Units: English

Contract Class: 3 Lump Sum Project: N Design/Build: N Project Length: 15.979 MI

Project Manager: SHARMA

Version 12 Project Grand Total \$43,914,869.49

**Description:** Rangeland Road (New Interchange)

Sequence: 1 NUR - New Construction, Undivided, Rural

Net Length: 0.833 MI 4,400 LF

Description: Ramp - A NB off ramp two lane section (Includes 4th lane and Aux. lane from SR 54)

#### **EARTHWORK COMPONENT**

#### **User Input Data**

Description

Description	Value
Standard Clearing and Grubbing Limits L/R	50.00 / 50.00
Incidental Clearing and Grubbing Area	0.00
Alignment Number	1
<u> </u>	
Distance	0.830
Top of Structural Course For Begin Section	105.00
Top of Structural Course For End Section	105.00
Horizontal Elevation For Begin Section	100.00
Horizontal Elevation For End Section	100.00
Front Slope L/R	6 to 1 / 6 to 1

Pay Items

Outside Shoulder Cross Slope L/R

Roadway Cross Slope L/R

•				
Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
110-1-1	CLEARING & GRUBBING	10.10 AC	\$26,887.21	\$271,560.82
120-6	EMBANKMENT	45,094.90 CY	\$42.51	\$1,916,984.20
	Earthwork Component Total			\$2,188,545.02

**ROADWAY COMPONENT** 

#### **User Input Data**

Description	Value
Number of Lanes	2
Roadway Pavement Width L/R	12.00 / 12.00
Structural Spread Rate	275
Friction Course Spread Rate	165

#### Pay Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
160-4	TYPE B STABILIZATION	21,510.25 SY	\$21.48	\$462,040.17
285-709	OPTIONAL BASE,BASE GROUP 09	12,055.52 SY	\$58.67	\$707,297.36

Value

6.00 % / 6.00 %

2.00 % / 2.00 %

334-1-13	TRAFFIC C	1,613.27 TN	\$188.86	\$304,682.17
337-7-83	ASPH CONC FC,TRAFFIC C,FC- 12.5.PG 76-22	967.96 TN	\$206.53	\$199,912.78

# **Pavement Marking Subcomponent**

Description	Value
Include Thermo/Tape/Other	N
Pavement Type	Asphalt
Solid Stripe No. of Paint Applications	2
Solid Stripe No. of Stripes	2
Skip Stripe No. of Paint Applications	2
Skip Stripe No. of Stripes	1

#### Pav Items

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Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
706-1-3	RAISED PAVMT MARK, TYPE B	112.00 EA	\$6.70	\$750.40
710-11-101	PAINTED PAVT MARK,STD,WHITE,SOLID,6"	3.33 GM	\$1,242.40	\$4,137.19
710-11-231	PAINTED PAVT MARK,STD,YELLOW,SKIP,6"	1.67 GM	\$566.11	\$945.40
	Roadway Component Total			\$1,679,765.48

#### SHOULDER COMPONENT

# **User Input Data**

Description	Value
Total Outside Shoulder Width L/R	8.00 / 12.00
Total Outside Shoulder Perf. Turf Width L/R	4.00 / 2.00
Paved Outside Shoulder Width L/R	4.00 / 10.00
Structural Spread Rate	110
Friction Course Spread Rate	165
Total Width (T) / 8" Overlap (O)	Т
Rumble Strips ï¿1/2No. of Sides	0

# Pay Items

Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
285-704	OPTIONAL BASE,BASE GROUP 04	7,166.82 SY	\$40.07	\$287,174.48
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	376.43 TN	\$188.86	\$71,092.57
337-7-83	ASPH CONC FC,TRAFFIC C,FC- 12.5,PG 76-22	564.64 TN	\$206.53	\$116,615.10
570-1-1	PERFORMANCE TURF	2,933.22 SY	\$6.82	\$20,004.56

# **Erosion Control**

Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
104-10-3	SEDIMENT BARRIER	11,439.54 LF	\$5.59	\$63,947.03
104-11	FLOATING TURBIDITY BARRIER	208.32 LF	\$15.96	\$3,324.79
104-12	STAKED TURBIDITY BARRIER- NYL REINF PVC	208.32 LF	\$19.18	\$3,995.58
104-15	SOIL TRACKING PREVENTION DEVICE	1.00 EA	\$4,709.30	\$4,709.30
107-1	LITTER REMOVAL	10.10 AC	\$159.61	\$1,612.06
107-2	MOWING	10.10 AC	\$424.57	\$4,288.16

\$576,763.62

#### **DRAINAGE COMPONENT**

Pay Items				
Pay item	Description	<b>Quantity Unit</b>	Unit Price	<b>Extended Amount</b>
430-174-124	PIPE CULV, OPT MATL, ROUND,24"SD	672.00 LF	\$278.89	\$187,414.08
430-175-136	PIPE CULV, OPT MATL, ROUND, 36"S/CD	144.00 LF	\$310.89	\$44,768.16
430-984-129	MITERED END SECT, OPTIONAL RD, 24" SD	34.00 EA	\$3,624.19	\$123,222.46
570-1-1	PERFORMANCE TURF	586.64 SY	\$18.06	\$10,594.72

#### **Retention Basin 1**

Description	Value
Size	2 AC
Multiplier	1
Depth	3.00
Description	

# Pay Items

,				
Pay item	Description	Quantity Unit	Unit Price	Extended Amount
110-1-1	CLEARING & GRUBBING	2.00 AC	\$297,240.40	\$594,480.80
120-1	REGULAR EXCAVATION	9,680.00 CY	\$104.30	\$1,009,624.00
425-1-541	INLETS, DT BOT, TYPE D, <10'	1.00 EA	\$11,392.37	\$11,392.37
425-2-71	MANHOLES, J-7, <10'	1.00 EA	\$12,194.25	\$12,194.25
430-175-142	PIPE CULV, OPT MATL, ROUND, 42"S/CD	56.00 LF	\$654.39	\$36,645.84
430-175-160	PIPE CULV, OPT MATL, ROUND, 60"S/CD	200.00 LF	\$612.49	\$122,498.00
550-10-220	FENCING, TYPE B, 5.1-6.0', STANDARD	1,180.00 LF	\$81.27	\$95,898.60
550-60-234	FENCE GATE, TYP B, SLIDE/CANT, 18.1-20'OPEN	1.00 EA	\$5,001.92	\$5,001.92
570-1-1	PERFORMANCE TURF	9,680.00 SY	\$18.06	\$174,820.80
	Drainage Component Total			\$2,428,556.00

# SIGNING COMPONENT

Pay Items				
Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
700-1-111	SINGLE COL GRND SIGN AS, F&I GM, <12 SF	2.00 EA	\$749.92	\$1,499.84
700-1-112	SINGLE COL GRND SIGN AS, F&I GM, 12-20	17.00 EA	\$2,387.48	\$40,587.16
700-2-114	MULTI- COLUMN SIGN, F&I GM, 30.1-50 SF	2.00 EA	\$11,326.06	\$22,652.12
X-Items				
Pay item	Description	<b>Quantity Unit</b>	Unit Price	<b>Extended Amount</b>
700-4-114	OH STATIC SIGN STR, F&I, C 41- 50 FT	2.00 EA	\$152,433.94	\$304,867.88
700-4-126	OH STATIC SIGN STR, F&I, S 101- 150 FT	1.00 EA	\$350,000.00	\$350,000.00

#### **Signing Component Total**

\$719,607.00

#### INTELLIGENT TRAFFIC SYSTEM (ITS) COMPONENT

#### **Description of Work**

ITS, MOC, 4% OF SUBTOTAL

**EX-Items** 

Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
ITS	4%	1.00 1	\$336,000.00	\$336,000.00
	Intelligent Traffic System (ITS) Component Total		\$336,000.00	

#### LIGHTING COMPONENT

Rural	Lighting	Subcomponer	ıt
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Description				Value
Multiplier (Num	nber of Poles)			17
Pay Items				
Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
630-2-11	CONDUIT, F& I, OPEN TRENCH	3,400.00 LF	\$25.12	\$85,408.00
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24"	17.00 EA	\$1,771.59	\$30,117.03
715-1-13	LIGHTING CONDUCTORS, F&I, INSUL, NO.4-2	10,200.00 LF	\$6.55	\$66,810.00
715-61-442	LIGHT POLE CMPLT,STD,F&I, 45'MH,12'ARM L	17.00 EA	\$16,000.00	\$272,000.00
715-500-1	POLE CABLE DIST SYS, CONVENTIONAL	17.00 EA	\$1,175.12	\$19,977.04
	Subcomponent Total			\$474,312.07
	Lighting Component Total			\$474,312.07

#### LANDSCAPING COMPONENT

**User Input Data** 

DescriptionValueCost %10.00Component DetailN

Landscaping Component Total \$1,025,830.53

#### ARCHITECTURAL COMPONENT

Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
735-74	TOLL PLAZA, SINGLE LOCATION  Comment: NEW TOLL GANTRY	1.00 LS	\$1,500,000.00	\$1,500,000.00
	Architectural Component Total			\$1,500,000.00

**Sequence 1 Total** \$10,929,379.72

Sequence: 2 NUR - New Construction, Undivided, Rural

Net Length:

0.104 MI
547 LF

Description: Ramp - A NB off ramp four lane section

#### **EARTHWORK COMPONENT**

#### **User Input Data**

Description	Value
Standard Clearing and Grubbing Limits L/R	50.00 / 50.00
Incidental Clearing and Grubbing Area	0.00
AP (A)	,
Alignment Number	1
Distance	0.104
Top of Structural Course For Begin Section	105.00
Top of Structural Course For End Section	105.00
Horizontal Elevation For Begin Section	100.00
Horizontal Elevation For End Section	100.00
Front Slope L/R	6 to 1 / 6 to 1
Outside Shoulder Cross Slope L/R	6.00 % / 6.00 %
Roadway Cross Slope L/R	2.00 % / 2.00 %

# Pay Items

Pay item	Description	<b>Quantity Unit</b>	Unit Price	Extended Amount
110-1-1	CLEARING & GRUBBING	1.26 AC	\$26,887.21	\$33,877.88
120-6	EMBANKMENT	7,060.26 CY	\$42.51	\$300,131.65
	Earthwork Component Total			\$334,009.53

#### **ROADWAY COMPONENT**

#### **User Input Data**

Description	Value
Number of Lanes	4
Roadway Pavement Width L/R	24.00 / 24.00
Structural Spread Rate	275
Friction Course Spread Rate	165

#### Pay Items

Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
160-4	TYPE B STABILIZATION	4,132.95 SY	\$21.48	\$88,775.77
285-709	OPTIONAL BASE,BASE GROUP 09	2,957.49 SY	\$58.67	\$173,515.94
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	401.14 TN	\$188.86	\$75,759.30
337-7-83	ASPH CONC FC,TRAFFIC C,FC- 12.5.PG 76-22	240.68 TN	\$206.53	\$49,707.64

#### **Pavement Marking Subcomponent**

Description	Value
Include Thermo/Tape/Other	N
Pavement Type	Asphalt
Solid Stripe No. of Paint Applications	2
Solid Stripe No. of Stripes	2
Skip Stripe No. of Paint Applications	2
Skip Stripe No. of Stripes	3

Pay item	Description	Quantity Unit	Unit Price Exte	ended Amount
706-1-3	RAISED PAVMT MARK, TYPE B	70.00 EA	\$6.70	\$469.00

	Roadway Component Total			\$389,088.02
710-11-231	PAINTED PAVT MARK,STD,YELLOW,SKIP,6"	0.62 GM	\$566.11	\$350.99
710-11-101	PAINTED PAVT MARK,STD,WHITE,SOLID,6"	0.41 GM	\$1,242.40	\$509.38

#### SHOULDER COMPONENT

	User I	nput	Data
--	--------	------	------

Description	Value
Total Outside Shoulder Width L/R	8.00 / 12.00
Total Outside Shoulder Perf. Turf Width L/R	4.00 / 2.00
Paved Outside Shoulder Width L/R	4.00 / 10.00
Structural Spread Rate	110
Friction Course Spread Rate	165
Total Width (T) / 8" Overlap (O)	T
Rumble Strips ï¿⅓No. of Sides	0

# Pay Items

Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	Extended Amount
285-704	OPTIONAL BASE,BASE GROUP 04	891.02 SY	\$40.07	\$35,703.17
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	46.80 TN	\$188.86	\$8,838.65
337-7-83	ASPH CONC FC,TRAFFIC C,FC- 12.5,PG 76-22	70.20 TN	\$206.53	\$14,498.41
570-1-1	PERFORMANCE TURF	364.67 SY	\$6.82	\$2,487.05

#### **Erosion Control**

#### Pay Items

Pay item	Description	<b>Quantity Unit</b>	Unit Price	Extended Amount
104-10-3	SEDIMENT BARRIER	1,422.22 LF	\$5.01	\$7,125.32
104-11	FLOATING TURBIDITY BARRIER	25.90 LF	\$15.96	\$413.36
104-12	STAKED TURBIDITY BARRIER- NYL REINF PVC	25.90 LF	\$19.18	\$496.76
104-15	SOIL TRACKING PREVENTION DEVICE	1.00 EA	\$4,709.30	\$4,709.30
107-1	LITTER REMOVAL	1.26 AC	\$107.65	\$135.64
107-2	MOWING	1.26 AC	\$137.04	\$172.67
	Shoulder Component Total			\$74,580.33

#### **DRAINAGE COMPONENT**

Pay Items				
Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
430-174-124	PIPE CULV, OPT MATL, ROUND,24"SD	88.00 LF	\$291.65	\$25,665.20
430-175-136	PIPE CULV, OPT MATL, ROUND, 36"S/CD	24.00 LF	\$259.35	\$6,224.40
430-984-129	MITERED END SECT, OPTIONAL RD, 24" SD	5.00 EA	\$2,940.61	\$14,703.05
570-1-1	PERFORMANCE TURF	72.93 SY	\$6.82	\$497.38
	Drainage Component Total			\$47,090.03

#### SIGNING COMPONENT

Pay Items				
Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
700-1-111	SINGLE COL GRND SIGN AS, F&I GM, <12 SF	1.00 EA	\$749.92	\$749.92
700-1-112	SINGLE COL GRND SIGN AS, F&I GM, 12-20	3.00 EA	\$2,387.48	\$7,162.44
700-2-114	MULTI- COLUMN SIGN, F&I GM, 30.1-50 SF	1.00 EA	\$12,667.99	\$12,667.99
	Signing Component Total			\$20,580.35

#### **SIGNALIZATIONS COMPONENT**

Signalization 1	
Description	Value
Туре	4 Lane Mast Arm
Multiplier	2
Description	

Pay Items				
Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
630-2-11	CONDUIT, F& I, OPEN TRENCH	1,500.00 LF	\$25.12	\$37,680.00
630-2-12	CONDUIT, F& I, DIRECTIONAL BORE	500.00 LF	\$36.11	\$18,055.00
632-7-1	SIGNAL CABLE- NEW OR RECO, FUR & INSTALL	2.00 PI	\$14,658.36	\$29,316.72
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24"	32.00 EA	\$1,771.59	\$56,690.88
639-1-112	ELECTRICAL POWER SRV,F&I,OH,M,PUR BY CON	2.00 AS	\$7,134.25	\$14,268.50
639-2-1	ELECTRICAL SERVICE WIRE, F&I	120.00 LF	\$11.57	\$1,388.40
649-21-10	STEEL MAST ARM ASSEMBLY, F&I, 60'	8.00 EA	\$111,174.53	\$889,396.24
650-1-14	VEH TRAF SIGNAL,F&I ALUMINUM, 3 S 1 W	24.00 AS	\$2,236.36	\$53,672.64
653-1-11	PEDESTRIAN SIGNAL, F&I LED COUNT, 1 WAY	16.00 AS	\$1,277.10	\$20,433.60
660-1-102	LOOP DETECTOR INDUCTIVE, F&I, TYPE 2	24.00 EA	\$937.34	\$22,496.16
660-2-106	LOOP ASSEMBLY, F&I, TYPE F	24.00 AS	\$1,793.71	\$43,049.04
665-1-11	PEDESTRIAN DETECTOR, F&I, STANDARD	16.00 EA	\$449.78	\$7,196.48
670-5-111	TRAF CNTL ASSEM, F&I, NEMA, 1 PREEMPT	2.00 AS	\$49,807.79	\$99,615.58
700-3-101	SIGN PANEL, F&I GM, UP TO 12 SF	8.00 EA	\$515.67	\$4,125.36
	Signalizations Component Total			\$1,297,384.60

# INTELLIGENT TRAFFIC SYSTEM (ITS) COMPONENT

# **Description of Work**

EX-Items				
Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
ITS	4%	1.00 1	\$64,000.00	\$64,000.00
Intelligent Traffic System (ITS) Component Total			\$64,000.00	

#### LIGHTING COMPONENT

Description	Value
Multiplier (Number of Poles)	3

Pay Items				
Pay item	Description	Quantity Unit	<b>Unit Price</b>	<b>Extended Amount</b>
630-2-11	CONDUIT, F& I, OPEN TRENCH	600.00 LF	\$25.12	\$15,072.00
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24"	3.00 EA	\$1,771.59	\$5,314.77
715-1-13	LIGHTING CONDUCTORS, F&I, INSUL, NO.4-2	1,800.00 LF	\$6.55	\$11,790.00
715-61-442	LIGHT POLE CMPLT,STD,F&I, 45'MH,12'ARM L	3.00 EA	\$16,000.00	\$48,000.00
715-500-1	POLE CABLE DIST SYS, CONVENTIONAL	3.00 EA	\$1,175.12	\$3,525.36
	Subcomponent Total			\$83,702.13
	Lighting Component Total			\$83,702.13

#### LANDSCAPING COMPONENT

**User Input Data** 

Description Value Cost % 10.00 Component Detail Ν

> **Landscaping Component Total** \$166,174.27

Sequence 2 Total \$2,476,609.26 Sequence: 3 NUR - New Construction, Undivided, Rural

Net Length:

0.206 MI
1,085 LF

Description: Ramp - B NB on ramp two lane section

#### **EARTHWORK COMPONENT**

#### **User Input Data**

Description	Value
Standard Clearing and Grubbing Limits L/R	50.00 / 50.00
Incidental Clearing and Grubbing Area	0.00
All managed Alternations	4
Alignment Number	1
Distance	0.206
Top of Structural Course For Begin Section	105.00
Top of Structural Course For End Section	105.00
Horizontal Elevation For Begin Section	100.00
Horizontal Elevation For End Section	100.00
Front Slope L/R	6 to 1 / 6 to 1
Outside Shoulder Cross Slope L/R	6.00 % / 6.00 %
Roadway Cross Slope L/R	2.00 % / 2.00 %

# Pay Items

Pay item	Description	<b>Quantity Unit</b>	Unit Price	Extended Amount
110-1-1	CLEARING & GRUBBING	2.50 AC	\$26,887.21	\$67,218.02
120-6	EMBANKMENT	11,192.23 CY	\$42.51	\$475,781.70
	Earthwork Component Total			\$542,999.73

#### **ROADWAY COMPONENT**

#### **User Input Data**

Description	Value
Number of Lanes	2
Roadway Pavement Width L/R	12.00 / 12.00
Structural Spread Rate	275
Friction Course Spread Rate	165

#### Pay Items

Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
160-4	TYPE B STABILIZATION	5,304.64 SY	\$21.48	\$113,943.67
285-709	OPTIONAL BASE,BASE GROUP 09	2,973.01 SY	\$58.67	\$174,426.50
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	397.85 TN	\$188.86	\$75,137.95
337-7-83	ASPH CONC FC,TRAFFIC C,FC- 12.5,PG 76-22	238.71 TN	\$206.53	\$49,300.78

# **Pavement Marking Subcomponent**

Description	Value
Include Thermo/Tape/Other	N
Pavement Type	Asphalt
Solid Stripe No. of Paint Applications	2
Solid Stripe No. of Stripes	2
Skip Stripe No. of Paint Applications	2
Skip Stripe No. of Stripes	1

Pay item	Description	Quantity Unit	Unit Price Exte	ended Amount
706-1-3	RAISED PAVMT MARK, TYPE B	28.00 EA	\$6.70	\$187.60

	Roadway Component Total			\$414,247.38
710-11-231	PAINTED PAVT MARK,STD,YELLOW,SKIP,6"	0.41 GM	\$566.11	\$232.11
710-11-101	PAINTED PAVT MARK,STD,WHITE,SOLID,6"	0.82 GM	\$1,242.40	\$1,018.77

#### SHOULDER COMPONENT

	User I	nput	Data
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Description	Value
Total Outside Shoulder Width L/R	8.00 / 12.00
Total Outside Shoulder Perf. Turf Width L/R	4.00 / 2.00
Paved Outside Shoulder Width L/R	4.00 / 10.00
Structural Spread Rate	110
Friction Course Spread Rate	165
Total Width (T) / 8" Overlap (O)	T
Rumble Strips ï¿⅓No. of Sides	0

# Pay Items

Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	Extended Amount
285-704	OPTIONAL BASE,BASE GROUP 04	1,767.41 SY	\$40.07	\$70,820.12
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	92.83 TN	\$188.86	\$17,531.87
337-7-83	ASPH CONC FC,TRAFFIC C,FC- 12.5,PG 76-22	139.25 TN	\$206.53	\$28,759.30
570-1-1	PERFORMANCE TURF	723.36 SY	\$6.82	\$4,933.32

#### **Erosion Control**

# Pay Items

Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	Extended Amount
104-10-3	SEDIMENT BARRIER	2,821.10 LF	\$5.01	\$14,133.71
104-11	FLOATING TURBIDITY BARRIER	51.38 LF	\$15.96	\$820.02
104-12	STAKED TURBIDITY BARRIER- NYL REINF PVC	51.38 LF	\$19.18	\$985.47
104-15	SOIL TRACKING PREVENTION DEVICE	1.00 EA	\$4,709.30	\$4,709.30
107-1	LITTER REMOVAL	2.49 AC	\$107.65	\$268.05
107-2	MOWING	2.49 AC	\$137.04	\$341.23
	Shoulder Component Total			\$143,302.39

#### **DRAINAGE COMPONENT**

Pay Items				
Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	Extended Amount
430-174-124	PIPE CULV, OPT MATL, ROUND,24"SD	168.00 LF	\$291.65	\$48,997.20
430-175-136	PIPE CULV, OPT MATL, ROUND, 36"S/CD	40.00 LF	\$259.35	\$10,374.00
430-984-129	MITERED END SECT, OPTIONAL RD, 24" SD	9.00 EA	\$2,940.61	\$26,465.49
570-1-1	PERFORMANCE TURF	144.67 SY	\$6.82	\$986.65
	Drainage Component Total			\$86,823.34

#### SIGNING COMPONENT

Pay Items				
Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
700-1-111	SINGLE COL GRND SIGN AS, F&I GM, <12 SF	1.00 EA	\$749.92	\$749.92
700-1-112	SINGLE COL GRND SIGN AS, F&I GM, 12-20	5.00 EA	\$2,387.48	\$11,937.40
700-2-114	MULTI- COLUMN SIGN, F&I GM, 30.1-50 SF	1.00 EA	\$12,667.99	\$12,667.99
X-Items				
Pay item	Description	<b>Quantity Unit</b>	Unit Price	<b>Extended Amount</b>
700-4-114	OH STATIC SIGN STR, F&I, C 41- 50 FT	1.00 EA	\$182,265.02	\$182,265.02
	Signing Component Total			\$207,620.33

SIGNALIZATIONS COMPONENT				
Signalization 1 Description Type Multiplier Description		<b>Value</b> 4 Lane Mast Arm 1		
Pay Items	Post total	0 - 47 11 4	II. W D A	<b>-</b> 40 - 10 14 00 - 4
-	Description	Quantity Unit 750.00 LF		Extended Amount
630-2-12	CONDUIT, F& I, OPEN TRENCH CONDUIT, F& I, DIRECTIONAL BORE	250.00 LF	\$26.88 \$40.59	\$20,160.00 \$10,147.50
	SIGNAL CABLE- NEW OR RECO, FUR & INSTALL	1.00 PI	\$15,002.66	\$15,002.66
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24"	16.00 EA	\$1,830.28	\$29,284.48
620 1 119	ELECTRICAL POWER SRV,F&I,OH,M,PUR BY CON	1.00 AS	\$7,134.25	\$7,134.25
639-2-1	ELECTRICAL SERVICE WIRE, F&I	60.00 LF	\$10.68	\$640.80
n44-71-111	STEEL MAST ARM ASSEMBLY, F&I, 60'	4.00 EA	\$111,167.40	\$444,669.60
650-1-1/	VEH TRAF SIGNAL,F&I ALUMINUM, 3 S 1 W	12.00 AS	\$2,208.67	\$26,504.04
	PEDESTRIAN SIGNAL, F&I LED COUNT, 1 WAY	8.00 AS	\$1,287.14	\$10,297.12
hhii-1-1117	LOOP DETECTOR INDUCTIVE, F&I, TYPE 2	12.00 EA	\$937.34	\$11,248.08
660-2-106	LOOP ASSEMBLY, F&I, TYPE F	12.00 AS	\$1,819.23	\$21,830.76
	PEDESTRIAN DETECTOR, F&I, STANDARD	8.00 EA	\$455.15	\$3,641.20
n/U-n-III	TRAF CNTL ASSEM, F&I, NEMA, 1 PREEMPT	1.00 AS	\$50,125.89	\$50,125.89
	SIGN PANEL, F&I GM, UP TO 12 SF	4.00 EA	\$515.67	\$2,062.68
	Signalizations Component Total			\$652,749.06

# INTELLIGENT TRAFFIC SYSTEM (ITS) COMPONENT

# **Description of Work**

**EX-Items** 

Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
ITS	4%	1.00 1	\$178,000.00	\$178,000.00
	Intelligent Traffic System (ITS) Component Total			\$178,000.00

#### LIGHTING COMPONENT

Rural	Lighting :	Subcomponent
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Description				Value
Multiplier (Num	nber of Poles)			7
Pay Items				
Pay item	Description	Quantity Unit	<b>Unit Price</b>	Extended Amount
630-2-11	CONDUIT, F& I, OPEN TRENCH	1,400.00 LF	\$25.12	\$35,168.00
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24"	7.00 EA	\$1,771.59	\$12,401.13
715-1-13	LIGHTING CONDUCTORS, F&I, INSUL, NO.4-2	4,200.00 LF	\$6.55	\$27,510.00
715-61-442	LIGHT POLE CMPLT,STD,F&I, 45'MH,12'ARM L	7.00 EA	\$16,000.00	\$112,000.00
715-500-1	POLE CABLE DIST SYS, CONVENTIONAL	7.00 EA	\$1,175.12	\$8,225.84
	Subcomponent Total			\$195,304.97
	Lighting Component Total			\$195,304.97

#### LANDSCAPING COMPONENT

**User Input Data** 

DescriptionValueCost %10.00Component DetailN

Landscaping Component Total \$64,437.31

**Sequence 3 Total** \$2,485,484.51

Sequence: 4 NUR - New Construction, Undivided, Rural

Net Length: 0.474 MI 2,500 LF

Description: Ramp - B NB on ramp one lane section

#### **EARTHWORK COMPONENT**

#### **User Input Data**

<b>Description</b> Standard Clearing and Grubbing Limits L/R	<b>Value</b> 50.00 / 50.00
Incidental Clearing and Grubbing Area	0.00
Alignment Number	1
Distance	0.473
Top of Structural Course For Begin Section	105.00
Top of Structural Course For End Section	105.00
Horizontal Elevation For Begin Section	100.00
Horizontal Elevation For End Section	100.00
Front Slope L/R	6 to 1 / 6 to 1
Outside Shoulder Cross Slope L/R	6.00 % / 6.00 %
Roadway Cross Slone L/R	2 00 % / 2 00 %

# Pay Items

•				
Pay item	Description	Quantity Unit	<b>Unit Price</b>	<b>Extended Amount</b>
110-1-1	CLEARING & GRUBBING	5.75 AC	\$26,887.21	\$154,601.46
120-6	EMBANKMENT	21,428.04 CY	\$42.51	\$910,905.98
	Earthwork Component Total			\$1,065,507.44

#### **ROADWAY COMPONENT**

#### **User Input Data**

Description	Value
Number of Lanes	1
Roadway Pavement Width L/R	7.50 / 7.50
Structural Spread Rate	275
Friction Course Spread Rate	165

#### Pay Items

Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
160-4	TYPE B STABILIZATION	7,500.24 SY	\$21.48	\$161,105.16
285-709	OPTIONAL BASE,BASE GROUP 09	4,350.14 SY	\$58.67	\$255,222.71
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	572.93 TN	\$188.86	\$108,203.56
337-7-83	ASPH CONC FC,TRAFFIC C,FC- 12.5.PG 76-22	343.76 TN	\$206.53	\$70,996.75

#### **Pavement Marking Subcomponent**

Description	Value
Include Thermo/Tape/Other	N
Pavement Type	Asphalt
Solid Stripe No. of Paint Applications	2
Solid Stripe No. of Stripes	2
Skip Stripe No. of Paint Applications	2
Skip Stripe No. of Stripes	0

#### Pay Items

Pay item Description Quantity Unit Unit Price Extended Amount

710-11-101 PAINTED PAVT 1.89 GM \$1,242.40 \$2,348.14

Roadway Component Total \$597,876.32

#### SHOULDER COMPONENT

#### **User Input Data**

Description	Value
Total Outside Shoulder Width L/R	6.00 / 6.00
Total Outside Shoulder Perf. Turf Width L/R	4.00 / 2.00
Paved Outside Shoulder Width L/R	2.00 / 4.00
Structural Spread Rate	110
Friction Course Spread Rate	165
Total Width (T) / 8" Overlap (O)	T
Rumble Strips �No. of Sides	0

#### Pay Items

Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
285-704	OPTIONAL BASE,BASE GROUP 04	1,850.06 SY	\$40.07	\$74,131.90
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	91.67 TN	\$188.86	\$17,312.80
337-7-83	ASPH CONC FC,TRAFFIC C,FC- 12.5,PG 76-22	137.50 TN	\$206.53	\$28,397.88
570-1-1	PERFORMANCE TURF	1,666.72 SY	\$6.82	\$11,367.03

#### **Erosion Control**

# Pay Items

Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
104-10-3	SEDIMENT BARRIER	6,500.21 LF	\$5.59	\$36,336.17
104-11	FLOATING TURBIDITY BARRIER	118.38 LF	\$15.96	\$1,889.34
104-12	STAKED TURBIDITY BARRIER- NYL REINF PVC	118.38 LF	\$19.18	\$2,270.53
104-15	SOIL TRACKING PREVENTION DEVICE	1.00 EA	\$4,709.30	\$4,709.30
107-1	LITTER REMOVAL	5.74 AC	\$159.61	\$916.16
107-2	MOWING	5.74 AC	\$424.57	\$2,437.03
	Shoulder Component Total			\$179,768.14

#### **DRAINAGE COMPONENT**

Pay Items				
Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
430-174-124	PIPE CULV, OPT MATL, ROUND,24"SD	384.00 LF	\$278.89	\$107,093.76
430-175-136	PIPE CULV, OPT MATL, ROUND, 36"S/CD	80.00 LF	\$310.89	\$24,871.20
430-984-129	MITERED END SECT, OPTIONAL RD, 24" SD	19.00 EA	\$3,624.19	\$68,859.61
570-1-1	PERFORMANCE TURF	333.34 SY	\$6.82	\$2,273.38
	Drainage Component Total			\$203,097.95

#### SIGNING COMPONENT

Pay item	Description	<b>Quantity Unit</b>	Unit Price	Extended Amount
700-1-111	SINGLE COL GRND SIGN AS, F&I GM, <12 SF	1.00 EA	\$749.92	\$749.92
700-1-112	SINGLE COL GRND SIGN AS, F&I GM, 12-20	10.00 EA	\$2,387.48	\$23,874.80
700-2-114	MULTI- COLUMN SIGN, F&I GM, 30.1-50 SF	1.00 EA	\$11,326.06	\$11,326.06
	Signing Component Total			\$35,950.78

#### INTELLIGENT TRAFFIC SYSTEM (ITS) COMPONENT

# **Description of Work**

Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
ITS	4%	1.00 1	\$95,000.00	\$95,000.00
	Intelligent Traffic System (ITS) Compone	ent Total		\$95,000.00

#### **LIGHTING COMPONENT**

#### **Rural Lighting Subcomponent**

Description Multiplier (Num Pay Items	nber of Poles)			<b>Value</b> 3
Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
630-2-11	CONDUIT, F& I, OPEN TRENCH	600.00 LF	\$25.12	\$15,072.00
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24"	3.00 EA	\$1,771.59	\$5,314.77
715-1-13	LIGHTING CONDUCTORS, F&I, INSUL, NO.4-2	1,800.00 LF	\$6.55	\$11,790.00
715-61-442	LIGHT POLE CMPLT,STD,F&I, 45'MH,12'ARM L	3.00 EA	\$16,000.00	\$48,000.00
715-500-1	POLE CABLE DIST SYS, CONVENTIONAL	3.00 EA	\$1,175.12	\$3,525.36
	Subcomponent Total			\$83,702.13
	Lighting Component Total			\$83,702.13

#### LANDSCAPING COMPONENT

# **User Input Data**

Description	Value
Cost %	10.00
Component Detail	N

Landscaping Component Total	\$194,931.25
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Sequence 4 Total	\$2,455,834.01
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Sequence: 5 NUR - New Construction, Undivided, Rural

Net Length: 0.947 MI 5,000 LF

Description: Ramp - C SB on ramp two lane section (includes aux.lane to SR 54)

#### **EARTHWORK COMPONENT**

#### **User Input Data**

Description	Value
Standard Clearing and Grubbing Limits L/R	50.00 / 50.00
Incidental Clearing and Grubbing Area	0.00
Alignment Number	1
Distance	0.940
Top of Structural Course For Begin Section	105.00
Top of Structural Course For End Section	105.00
Horizontal Elevation For Begin Section	100.00
Horizontal Elevation For End Section	100.00
Front Slope L/R	6 to 1 / 6 to 1
Outside Shoulder Cross Slope L/R	6.00 % / 6.00 %
Roadway Cross Slope L/R	2.00 % / 2.00 %

# Pay Items

Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
110-1-1	CLEARING & GRUBBING	11.48 AC	\$26,887.21	\$308,665.17
120-6	EMBANKMENT	52,168.75 CY	\$42.51	\$2,217,693.56
	Earthwork Component Total			\$2,526,358.73

#### **ROADWAY COMPONENT**

#### **User Input Data**

Description	Value
Number of Lanes	2
Roadway Pavement Width L/R	13.00 / 13.00
Structural Spread Rate	275
Friction Course Spread Rate	165

#### Pay Items

Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
160-4	TYPE B STABILIZATION	25,556.37 SY	\$21.48	\$548,950.83
285-709	OPTIONAL BASE,BASE GROUP 09	14,811.59 SY	\$58.67	\$868,995.99
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	1,986.17 TN	\$188.86	\$375,108.07
337-7-83	ASPH CONC FC,TRAFFIC C,FC- 12.5,PG 76-22	1,191.70 TN	\$206.53	\$246,121.80

#### **Pavement Marking Subcomponent**

Description	Value
Include Thermo/Tape/Other	N
Pavement Type	Asphalt
Solid Stripe No. of Paint Applications	2
Solid Stripe No. of Stripes	2
Skip Stripe No. of Paint Applications	2
Skip Stripe No. of Stripes	1

#### Pay Items

Pay item Description Quantity Unit Unit Price Extended Amount

706-1-3	RAISED PAVMT MARK, TYPE B	128.00 EA	\$6.70	\$857.60
710-11-101	PAINTED PAVT MARK,STD,WHITE,SOLID,6"	3.79 GM	\$1,242.40	\$4,708.70
710-11-231	PAINTED PAVT MARK,STD,YELLOW,SKIP,6"	1.89 GM	\$566.11	\$1,069.95
	Roadway Component Total			\$2,045,812.94

#### SHOULDER COMPONENT

# **User Input Data**

Description	Value
Total Outside Shoulder Width L/R	8.00 / 12.00
Total Outside Shoulder Perf. Turf Width L/R	4.00 / 2.00
Paved Outside Shoulder Width L/R	4.00 / 10.00
Structural Spread Rate	110
Friction Course Spread Rate	165
Total Width (T) / 8" Overlap (O)	T
Rumble Strips �No. of Sides	0

#### Pay Items

Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
285-704	OPTIONAL BASE,BASE GROUP 04	8,144.71 SY	\$40.07	\$326,358.53
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	427.79 TN	\$188.86	\$80,792.42
337-7-83	ASPH CONC FC,TRAFFIC C,FC- 12.5,PG 76-22	641.69 TN	\$206.53	\$132,528.24
570-1-1	PERFORMANCE TURF	3,333.44 SY	\$6.82	\$22,734.06

#### **Erosion Control**

# Pay Items

Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
104-10-3	SEDIMENT BARRIER	13,000.42 LF	\$5.59	\$72,672.35
104-11	FLOATING TURBIDITY BARRIER	236.75 LF	\$15.96	\$3,778.53
104-12	STAKED TURBIDITY BARRIER- NYL REINF PVC	236.75 LF	\$19.18	\$4,540.86
104-15	SOIL TRACKING PREVENTION DEVICE	1.00 EA	\$4,709.30	\$4,709.30
107-1	LITTER REMOVAL	11.48 AC	\$159.61	\$1,832.32
107-2	MOWING	11.48 AC	\$424.57	\$4,874.06
	Shoulder Component Total			\$654,820.68

#### **DRAINAGE COMPONENT**

Pay Items				
Pay item	Description	<b>Quantity Unit</b>	Unit Price	<b>Extended Amount</b>
430-174-124	PIPE CULV, OPT MATL, ROUND,24"SD	760.00 LF	\$278.89	\$211,956.40
430-175-136	PIPE CULV, OPT MATL, ROUND, 36"S/CD	160.00 LF	\$310.89	\$49,742.40
430-984-129	MITERED END SECT, OPTIONAL RD, 24" SD	38.00 EA	\$3,624.19	\$137,719.22
570-1-1	PERFORMANCE TURF	666.69 SY	\$6.82	\$4,546.83

#### **Retention Basin 1**

Description	Value
Size	2.5 AC
Multiplier	1
Depth	3.00
Description	

Pay I	tems
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i ay itoinio				
Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
110-1-1	CLEARING & GRUBBING	2.50 AC	\$26,887.21	\$67,218.02
120-1	REGULAR EXCAVATION	12,100.00 CY	\$104.30	\$1,262,030.00
425-1-361	INLETS, CURB, TYPE P-6, <10'	1.00 EA	\$8,224.64	\$8,224.64
425-2-71	MANHOLES, J-7, <10'	1.00 EA	\$12,151.00	\$12,151.00
430-175-142	PIPE CULV, OPT MATL, ROUND, 42"S/CD	56.00 LF	\$654.39	\$36,645.84
430-175-160	PIPE CULV, OPT MATL, ROUND, 60"S/CD	200.00 LF	\$612.49	\$122,498.00
550-10-220	FENCING, TYPE B, 5.1-6.0', STANDARD	1,335.00 LF	\$81.27	\$108,495.45
550-60-234	FENCE GATE,TYP B,SLIDE/CANT,18.1-20'OPEN	1.00 EA	\$5,001.92	\$5,001.92
570-1-1	PERFORMANCE TURF	12,100.00 SY	\$18.06	\$218,526.00
	Drainage Component Total			\$2,244,755.72

#### **SIGNING COMPONENT**

Pay Items				
Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
700-1-111	SINGLE COL GRND SIGN AS, F&I GM, <12 SF	2.00 EA	\$749.92	\$1,499.84
700-1-112	SINGLE COL GRND SIGN AS, F&I GM, 12-20	19.00 EA	\$2,387.48	\$45,362.12
700-2-114	MULTI- COLUMN SIGN, F&I GM, 30.1-50 SF	2.00 EA	\$11,326.06	\$22,652.12
	Signing Component Total			\$69,514.08

#### INTELLIGENT TRAFFIC SYSTEM (ITS) COMPONENT

#### **Description of Work**

EV	ltems

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
ITS	4%	1.00 1	\$450,000.00	\$450,000.00
	Intelligent Traffic System (ITS) Compo	nent Total		\$450,000.00

#### LIGHTING COMPONENT

# Rural Lighting Subcomponent

Description Multiplier (Nur Pay Items	nber of Poles)			<b>Value</b> 16
Pay item	Description	<b>Quantity Unit</b>	Unit Price	<b>Extended Amount</b>
630-2-11	CONDUIT, F& I, OPEN TRENCH	3,200.00 LF	\$25.12	\$80,384.00
635-2-11	PULL & SPLICE BOX, F&I, 13" x	16.00 FA	\$1,771.59	\$28.345.44

715-1-13	LIGHTING CONDUCTORS, F&I, INSUL, NO.4-2	9,600.00 LF	\$6.55	\$62,880.00
715-61-442	LIGHT POLE CMPLT,STD,F&I, 45'MH,12'ARM L	16.00 EA	\$16,000.00	\$256,000.00
715-500-1	POLE CABLE DIST SYS, CONVENTIONAL	16.00 EA	\$1,175.12	\$18,801.92
	Subcomponent Total			\$446,411.36
	Lighting Component Total			\$446,411.36

#### LANDSCAPING COMPONENT

**User Input Data** 

DescriptionValueCost %10.00Component DetailN

Landscaping Component Total \$1,119,970.35

#### ARCHITECTURAL COMPONENT

	ARCHITECTURA	AL COMPONENT		
X-Items				
Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
735-74	TOLL PLAZA, SINGLE LOCATION  Comment: NEW TOLL GANTRY	1.00 LS	\$1,500,000.00	\$1,500,000.00
	Architectural Component Total			\$1,500,000.00
Sequence 5	Total			\$11,057,643.86

Sequence: 7 NUR - New Construction, Undivided, Rural

Net Length: 0.568 MI 3,000 LF

Description: Ramp - D SB off ramp one lane section

#### **EARTHWORK COMPONENT**

#### **User Input Data**

<b>Description</b> Standard Clearing and Grubbing Limits L/R Incidental Clearing and Grubbing Area	<b>Value</b> 50.00 / 50.00 0.00
moderital oleaning and ordbbing Alea	0.00
Alignment Number	1
Distance	0.570
Top of Structural Course For Begin Section	105.00
Top of Structural Course For End Section	105.00
Horizontal Elevation For Begin Section	100.00
Horizontal Elevation For End Section	100.00
Front Slope L/R	6 to 1 / 6 to 1
Outside Shoulder Cross Slope L/R	6.00 % / 6.00 %
Roadway Cross Slope I /R	2.00 % / 2.00 %

#### Pay Items

Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
110-1-1	CLEARING & GRUBBING	6.88 AC	\$26,887.21	\$184,984.00
120-6	EMBANKMENT	25,822.37 CY	\$42.51	\$1,097,708.95
	Earthwork Component Total			\$1,282,692.95

#### **ROADWAY COMPONENT**

#### **User Input Data**

Description	Value
Number of Lanes	1
Roadway Pavement Width L/R	7.50 / 7.50
Structural Spread Rate	275
Friction Course Spread Rate	165

#### Pay Items

Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
160-4	TYPE B STABILIZATION	9,000.29 SY	\$21.48	\$193,326.23
285-709	OPTIONAL BASE,BASE GROUP 09	5,220.17 SY	\$58.67	\$306,267.37
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	687.52 TN	\$188.86	\$129,845.03
337-7-83	ASPH CONC FC,TRAFFIC C,FC- 12.5,PG 76-22	412.51 TN	\$206.53	\$85,195.69

#### **Pavement Marking Subcomponent**

Description	Value
Include Thermo/Tape/Other	N
Pavement Type	Asphalt
Solid Stripe No. of Paint Applications	2
Solid Stripe No. of Stripes	2
Skip Stripe No. of Paint Applications	2
Skip Stripe No. of Stripes	0

#### Pay Items

Pay item Description Quantity Unit Unit Price Extended Amount

710-11-101 PAINTED PAVT 2.27 GM \$1,242.40 \$2,820.25

**Roadway Component Total** 

\$717,454.57

#### SHOULDER COMPONENT

#### **User Input Data**

Description	Value
Total Outside Shoulder Width L/R	6.00 / 6.00
Total Outside Shoulder Perf. Turf Width L/R	4.00 / 2.00
Paved Outside Shoulder Width L/R	2.00 / 4.00
Structural Spread Rate	110
Friction Course Spread Rate	165
Total Width (T) / 8" Overlap (O)	T
Rumble Strips �No. of Sides	0

#### Pay Items

Pay item	Description	<b>Quantity Unit</b>	Unit Price Ex	tended Amount
285-704	OPTIONAL BASE,BASE GROUP 04	2,220.07 SY	\$40.07	\$88,958.20
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	110.00 TN	\$188.86	\$20,774.60
337-7-83	ASPH CONC FC,TRAFFIC C,FC- 12.5,PG 76-22	165.01 TN	\$206.53	\$34,079.52
570-1-1	PERFORMANCE TURF	2,000.06 SY	\$6.82	\$13,640.41

#### **Erosion Control**

# Pay Items

Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
104-10-3	SEDIMENT BARRIER	7,800.25 LF	\$5.59	\$43,603.40
104-11	FLOATING TURBIDITY BARRIER	142.05 LF	\$15.96	\$2,267.12
104-12	STAKED TURBIDITY BARRIER- NYL REINF PVC	142.05 LF	\$19.18	\$2,724.52
104-15	SOIL TRACKING PREVENTION DEVICE	1.00 EA	\$4,709.30	\$4,709.30
107-1	LITTER REMOVAL	6.89 AC	\$159.61	\$1,099.71
107-2	MOWING	6.89 AC	\$424.57	\$2,925.29
	Shoulder Component Total			\$214,782.07

#### **DRAINAGE COMPONENT**

Pay Items				
Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
430-174-124	PIPE CULV, OPT MATL, ROUND,24"SD	456.00 LF	\$278.89	\$127,173.84
430-175-136	PIPE CULV, OPT MATL, ROUND, 36"S/CD	96.00 LF	\$310.89	\$29,845.44
430-984-129	MITERED END SECT, OPTIONAL RD, 24" SD	23.00 EA	\$3,624.19	\$83,356.37
570-1-1	PERFORMANCE TURF	400.01 SY	\$6.82	\$2,728.07
	Drainage Component Total			\$243,103.72

#### SIGNING COMPONENT

Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
700-1-111	SINGLE COL GRND SIGN AS, F&I GM, <12 SF	2.00 EA	\$749.92	\$1,499.84
700-1-112	SINGLE COL GRND SIGN AS, F&I GM, 12-20	12.00 EA	\$2,387.48	\$28,649.76
700-2-114	MULTI- COLUMN SIGN, F&I GM, 30.1-50 SF	2.00 EA	\$11,326.06	\$22,652.12
X-Items				
Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
700-4-113	OH STATIC SIGN STR, F&I, C 31- 40 FT	1.00 EA	\$155,279.30	\$155,279.30
	Signing Component Total			\$208,081.02

#### INTELLIGENT TRAFFIC SYSTEM (ITS) COMPONENT

#### **Description of Work**

Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
ITS	4%	1.00 1	\$132,000.00	\$132,000.00
	Intelligent Traffic System (ITS) Compon	ent Total		\$132,000.00

#### LIGHTING COMPONENT

Description Multiplier (Nun Pay Items	nber of Poles)			<b>Value</b> 12
Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
630-2-11	CONDUIT, F& I, OPEN TRENCH	2,400.00 LF	\$25.12	\$60,288.00
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24"	12.00 EA	\$1,771.59	\$21,259.08
715-1-13	LIGHTING CONDUCTORS, F&I, INSUL, NO.4-2	7,200.00 LF	\$6.55	\$47,160.00
715-61-442	LIGHT POLE CMPLT,STD,F&I, 45'MH,12'ARM L	12.00 EA	\$16,000.00	\$192,000.00
715-500-1	POLE CABLE DIST SYS, CONVENTIONAL	12.00 EA	\$1,175.12	\$14,101.44
	Subcomponent Total			\$334,808.52
	Lighting Component Total			\$334,808.52

#### LANDSCAPING COMPONENT

# **User Input Data**

DescriptionValueCost %10.00Component DetailN

Landscaping Component Total	\$300,092.28
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**Sequence 7 Total** \$3,433,015.13

Sequence: 8 NUR - New Construction, Undivided, Rural

Net Length:

0.076 MI
401 LF

Description: Ramp - D SB off ramp three lane section

#### **EARTHWORK COMPONENT**

#### **User Input Data**

Description Standard Clearing and Grubbing Limits L/R	<b>Value</b> 50.00 / 50.00
Incidental Clearing and Grubbing Area	0.00
Alignment Number	1
Distance	0.076
Top of Structural Course For Begin Section	105.00
Top of Structural Course For End Section	105.00
Horizontal Elevation For Begin Section	100.00
Horizontal Elevation For End Section	100.00
Front Slope L/R	6 to 1 / 6 to 1
Outside Shoulder Cross Slope L/R	6.00 % / 6.00 %
Roadway Cross Slope L/R	2.00 % / 2.00 %

# Pay Items

Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
110-1-1	CLEARING & GRUBBING	0.92 AC	\$26,887.21	\$24,736.23
120-6	EMBANKMENT	4,653.66 CY	\$42.51	\$197,827.09
	Earthwork Component Total			\$222,563.32

#### **ROADWAY COMPONENT**

#### **User Input Data**

Description	Value
Number of Lanes	3
Roadway Pavement Width L/R	18.00 / 18.00
Structural Spread Rate	275
Friction Course Spread Rate	165

#### Pay Items

Pay item	Description	<b>Quantity Unit</b>	Unit Price E	xtended Amount
160-4	TYPE B STABILIZATION	2,493.57 SY	\$21.48	\$53,561.88
285-709	OPTIONAL BASE,BASE GROUP 09	1,632.40 SY	\$58.67	\$95,772.91
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	220.41 TN	\$188.86	\$41,626.63
337-7-83	ASPH CONC FC,TRAFFIC C,FC- 12.5,PG 76-22	132.25 TN	\$206.53	\$27,313.59

# **Pavement Marking Subcomponent**

Description	Value
Include Thermo/Tape/Other	N
Pavement Type	Asphalt
Solid Stripe No. of Paint Applications	2
Solid Stripe No. of Stripes	2
Skip Stripe No. of Paint Applications	2
Skip Stripe No. of Stripes	2

Pay item	Description	Quantity Unit	Unit Price Exte	nded Amount
706-1-3	RAISED PAVMT MARK, TYPE B	41.00 EA	\$6.70	\$274.70

	Roadway Component Total			\$219,092.26
710-11-231	PAINTED PAVT MARK,STD,YELLOW,SKIP,6"	0.30 GM	\$566.11	\$169.83
710-11-101	PAINTED PAVT MARK,STD,WHITE,SOLID,6"	0.30 GM	\$1,242.40	\$372.72

#### SHOULDER COMPONENT

User In	put	Data
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Description	Value
Total Outside Shoulder Width L/R	8.00 / 12.00
Total Outside Shoulder Perf. Turf Width L/R	4.00 / 2.00
Paved Outside Shoulder Width L/R	4.00 / 10.00
Structural Spread Rate	110
Friction Course Spread Rate	165
Total Width (T) / 8" Overlap (O)	T
Rumble Strips ï¿⅓No. of Sides	0

#### Pay Items

Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	Extended Amount
285-704	OPTIONAL BASE,BASE GROUP 04	652.78 SY	\$40.07	\$26,156.89
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	34.29 TN	\$188.86	\$6,476.01
337-7-83	ASPH CONC FC,TRAFFIC C,FC- 12.5,PG 76-22	51.43 TN	\$206.53	\$10,621.84
570-1-1	PERFORMANCE TURF	267.17 SY	\$6.82	\$1,822.10

#### **Erosion Control**

#### Pay Items

,				
Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
104-10-3	SEDIMENT BARRIER	1,041.96 LF	\$5.01	\$5,220.22
104-11	FLOATING TURBIDITY BARRIER	18.97 LF	\$15.96	\$302.76
104-12	STAKED TURBIDITY BARRIER- NYL REINF PVC	18.97 LF	\$19.18	\$363.84
104-15	SOIL TRACKING PREVENTION DEVICE	1.00 EA	\$4,709.30	\$4,709.30
107-1	LITTER REMOVAL	0.92 AC	\$107.65	\$99.04
107-2	MOWING	0.92 AC	\$137.04	\$126.08
	Shoulder Component Total			\$55,898.08

#### **DRAINAGE COMPONENT**

Pay Items				
Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
430-174-124	PIPE CULV, OPT MATL, ROUND,24"SD	64.00 LF	\$291.65	\$18,665.60
430-175-136	PIPE CULV, OPT MATL, ROUND, 36"S/CD	16.00 LF	\$259.35	\$4,149.60
430-984-129	MITERED END SECT, OPTIONAL RD, 24" SD	4.00 EA	\$2,940.61	\$11,762.44
570-1-1	PERFORMANCE TURF	53.43 SY	\$6.82	\$364.39
	Drainage Component Total			\$34,942.03

#### **SIGNING COMPONENT**

Pay Items				
Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
700-1-111	SINGLE COL GRND SIGN AS, F&I GM, <12 SF	1.00 EA	\$749.92	\$749.92
700-1-112	SINGLE COL GRND SIGN AS, F&I GM, 12-20	2.00 EA	\$2,387.48	\$4,774.96
700-2-114	MULTI- COLUMN SIGN, F&I GM, 30.1-50 SF	1.00 EA	\$12,667.99	\$12,667.99
	Signing Component Total			\$18,192.87

#### SIGNALIZATIONS COMPONENT

Signalization 1  Description  Type  Multiplier  Description	<b>Value</b> 4 Lane Mast Arm 2			
Pay Items Pay item	Description	Quantity Unit	Unit Price	Extended Amount
630-2-11	CONDUIT, F& I, OPEN TRENCH	1,500.00 LF	\$25.12	\$37,680.00
630-2-12	CONDUIT, F& I, DIRECTIONAL BORE	500.00 LF	\$36.11	\$18,055.00
632-7-1	SIGNAL CABLE- NEW OR RECO, FUR & INSTALL	2.00 PI	\$14,658.36	\$29,316.72
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24"	32.00 EA	\$1,771.59	\$56,690.88
639-1-112	ELECTRICAL POWER SRV,F&I,OH,M,PUR BY CON	2.00 AS	\$7,134.25	\$14,268.50
639-2-1	ELECTRICAL SERVICE WIRE, F&I	120.00 LF	\$11.57	\$1,388.40
649-21-10	STEEL MAST ARM ASSEMBLY, F&I, 60'	8.00 EA	\$111,174.53	\$889,396.24
650-1-14	VEH TRAF SIGNAL,F&I ALUMINUM, 3 S 1 W	24.00 AS	\$2,236.36	\$53,672.64
653-1-11	PEDESTRIAN SIGNAL, F&I LED COUNT, 1 WAY	16.00 AS	\$1,277.10	\$20,433.60
660-1-102	LOOP DETECTOR INDUCTIVE, F&I, TYPE 2	24.00 EA	\$937.34	\$22,496.16
660-2-106	LOOP ASSEMBLY, F&I, TYPE F	24.00 AS	\$1,793.71	\$43,049.04
665-1-11	PEDESTRIAN DETECTOR, F&I, STANDARD	16.00 EA	\$449.78	\$7,196.48
670-5-111	TRAF CNTL ASSEM, F&I, NEMA, 1 PREEMPT	2.00 AS	\$49,807.79	\$99,615.58
700-3-101	SIGN PANEL, F&I GM, UP TO 12 SF	8.00 EA	\$515.67	\$4,125.36
Signalization 2 Description Type Multiplier Description		<b>Valu</b> 2 Lane Mast An	. •	

Description

CONDUIT, F& I, OPEN TRENCH

CONDUIT, F& I, DIRECTIONAL

Pay Items Pay item

630-2-11

630-2-12

\$26.88

\$40.59

\$21,504.00

\$8,118.00

800.00 LF

200.00 LF

	Signalizations Component Total			\$1,993,726.38
700-3-101	SIGN PANEL, F&I GM, UP TO 12 SF	4.00 EA	\$515.67	\$2,062.68
670-5-111	TRAF CNTL ASSEM, F&I, NEMA, 1 PREEMPT	1.00 AS	\$50,125.89	\$50,125.89
665-1-11	PEDESTRIAN DETECTOR, F&I, STANDARD	8.00 EA	\$455.15	\$3,641.20
660-2-106	LOOP ASSEMBLY, F&I, TYPE F	8.00 AS	\$1,819.23	\$14,553.84
660-1-102	LOOP DETECTOR INDUCTIVE, F&I, TYPE 2	8.00 EA	\$937.34	\$7,498.72
653-1-11	PEDESTRIAN SIGNAL, F&I LED COUNT, 1 WAY	8.00 AS	\$1,287.14	\$10,297.12
650-1-14	VEH TRAF SIGNAL,F&I ALUMINUM, 3 S 1 W	8.00 AS	\$2,208.67	\$17,669.36
649-21-4	STEEL MAST ARM ASSEMBLY, F&I, 40'- 30'	4.00 EA	\$128,470.39	\$513,881.56
639-2-1	ELECTRICAL SERVICE WIRE, F&I	60.00 LF	\$10.68	\$640.80
639-1-112	ELECTRICAL POWER SRV,F&I,OH,M,PUR BY CON	1.00 AS	\$7,134.25	\$7,134.25
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24"	12.00 EA	\$1,830.28	\$21,963.36
633-3-11	FIBER OPTIC CONN HDWR, SPLICE ENCLOSURE	2.00 EA	\$1,124.17	\$2,248.34
632-7-1	SIGNAL CABLE- NEW OR RECO, FUR & INSTALL	1.00 PI	\$15,002.66	\$15,002.66

#### LIGHTING COMPONENT

<b>Description</b> Multiplier (Num	nber of Poles)			<b>Value</b> 2
Pay Items				_
Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
630-2-11	CONDUIT, F& I, OPEN TRENCH	400.00 LF	\$25.12	\$10,048.00
35-2-11	PULL & SPLICE BOX, F&I, 13" x 24"	2.00 EA	\$1,771.59	\$3,543.18
'15-1-13	LIGHTING CONDUCTORS, F&I, INSUL, NO.4-2	1,200.00 LF	\$6.55	\$7,860.00
15-61-442	LIGHT POLE CMPLT,STD,F&I, 45'MH,12'ARM L	2.00 EA	\$16,000.00	\$32,000.00
715-500-1	POLE CABLE DIST SYS, CONVENTIONAL	2.00 EA	\$1,175.12	\$2,350.24
	Subcomponent Total			\$55,801.42
	Lighting Component Total			\$55,801.42
Sequence 8 1				\$2,600,216.3

Sequence: 9 NUR - New Construction, Undivided, Rural

Net Length: 0.597 MI 3,151 LF

**Description:** Suncoast Trail Reconstruction at Rangeland

#### **EARTHWORK COMPONENT**

#### **User Input Data**

Description	Value
Standard Clearing and Grubbing Limits L/R	30.00 / 30.00
Incidental Clearing and Grubbing Area	0.00
Alignment Number	1
Distance	0.597
Top of Structural Course For Begin Section	101.00
Top of Structural Course For End Section	101.00
Horizontal Elevation For Begin Section	100.00
Horizontal Elevation For End Section	100.00
Front Slope L/R	6 to 1 / 6 to 1
Outside Shoulder Cross Slope L/R	6.00 % / 6.00 %
Roadway Cross Slope L/R	2.00 % / 2.00 %

#### Pay Items

Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	Extended Amount
110-1-1	CLEARING & GRUBBING	4.34 AC	\$26,887.21	\$116,690.49
120-6	EMBANKMENT	101.57 CY	\$107.91	\$10,960.42
	Earthwork Component Total			\$127,650.91

# **ROADWAY COMPONENT**

#### **User Input Data**

Description	Value
Number of Lanes	1
Roadway Pavement Width L/R	12.00 / 0.00
Structural Spread Rate	110
Friction Course Spread Rate	165

#### Pay Items

Pay item	Description	<b>Quantity Unit</b>	Unit Price Ex	tended Amount
160-4	TYPE B STABILIZATION	4,201.47 SY	\$21.48	\$90,247.58
285-701	OPTIONAL BASE,BASE GROUP 01	4,317.01 SY	\$83.90	\$362,197.14
334-1-12	SUPERPAVE ASPHALTIC CONC, TRAFFIC B	231.08 TN	\$330.89	\$76,462.06
337-7-83	ASPH CONC FC,TRAFFIC C,FC- 12.5.PG 76-22	346.62 TN	\$206.53	\$71,587.43

#### **Pavement Marking Subcomponent**

Description	Value
Include Thermo/Tape/Other	N
Pavement Type	Asphalt
Solid Stripe No. of Paint Applications	2
Solid Stripe No. of Stripes	2
Skip Stripe No. of Paint Applications	2
Skip Stripe No. of Stripes	0

#### Pay Items

Pay item Description Quantity Unit Unit Price Extended Amount

 Date: 2/11/2025 7:01:27 PM

# FDOT Long Range Estimating System - Production R3: Project Details by Sequence Report

**Project:** 448068-1-22-01 **Letting Date:** 01/2099

Description: PD&E WIDEN SUNCOAST PKWY(SR589) - S OF VAN DYKE RD TO SR52 (MP13-29)

District: 08 County: 97 TURNPIKE Market Area: 99 Units: English

Contract Class: 3 Lump Sum Project: N Design/Build: N Project Length: 15.979 MI

Project Manager: SHARMA

Version 12 Project Grand Total \$43,914,869.49

**Description:** Rangeland Road (New Interchange)

Project Se	quences Subtotal		\$36,169,313.63
102-1	Maintenance of Traffic	10.00 %	\$3,616,931.36
101-1	Mobilization	10.00 %	\$3,978,624.50
Project Se	quences Total		\$43,764,869.49
Project Unk	knowns	0.00 %	\$0.00
Design/Buil	ld	0.00 %	\$0.00

**Non-Bid Components:** 

Pay itemDescriptionQuantity UnitUnit PriceExtended Amount999-25INITIAL CONTINGENCY AMOUNT<br/>(DO NOT BID)LS\$150,000.00\$150,000.00Project Non-Bid Subtotal\$150,000.00

Version 12 Project Grand Total \$43,914,869.49

Date: 2/12/2025 9:28:44 AM

# **FDOT Long Range Estimating System - Production** R3: Project Details by Sequence Report

Project: 448068-1-22-01 Letting Date: 01/2099

Description: PD&E WIDEN SUNCOAST PKWY(SR589) - S OF VAN DYKE RD TO SR52 (MP13-29)

County: 97 TURNPIKE Market Area: 99 Units: English

Contract Class: 3 Lump Sum Project: N Design/Build: N Project Length: 15.979 MI

Project Manager: SHARMA

**Version 13 Project Grand Total** \$19,299,758.00

**Description:** Ridge Road

0.160 MI Sequence: 2 WUR - Widen/Resurface, Undivided, Rural Net Length: 844 LF

Description: Ramp A - SB on one lane section

#### **EARTHWORK COMPONENT**

#### User Input Data

Osci input butu	
Description	Value
Standard Clearing and Grubbing Limits L/R	30.00 / 30.00
Incidental Clearing and Grubbing Area	0.00
Alignment Number	1
Distance	0.160
Top of Structural Course For Begin Section	102.00
Top of Structural Course For End Section	102.00
Horizontal Elevation For Begin Section	100.00
Horizontal Elevation For End Section	100.00
Existing Front Slope L/R	6 to 1 / 6 to 1
Existing Outside Shoulder Cross Slope L/R	6.00 % / 6.00 %
Front Slope L/R	6 to 1 / 6 to 1
Outside Shoulder Cross Slope L/R	6.00 % / 6.00 %
Roadway Cross Slope L/R	2.00 % / 2.00 %

#### Pay Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
110-1-1	CLEARING & GRUBBING	1.16 AC	\$27,331.53	\$31,704.57
	Earthwork Component Total			\$31,704.57

**Earthwork Component Total** 

# **ROADWAY COMPONENT**

#### **User Input Data**

Description	Value
Number of Lanes	1
Existing Roadway Pavement Width L/R	7.50 / 7.50
Structural Spread Rate	165
Friction Course Spread Rate	80
Widened Outside Pavement Width L/R	0.00 / 0.00
Widened Structural Spread Rate	275
Widened Friction Course Spread Rate	165

Pay item	Description	<b>Quantity Unit</b>	Unit Price Ex	ctended Amount
160-4	TYPE B STABILIZATION	1,124.99 SY	\$21.48	\$24,164.79
327-70-5	MILLING EXIST ASPH PAVT, 2" AVG DEPTH	1,406.24 SY	\$6.30	\$8,859.31
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	116.01 TN	\$188.86	\$21,909.65
337-7-83	ASPH CONC FC,TRAFFIC C,FC- 12.5.PG 76-22	56.25 TN	\$206.53	\$11,617.31

#### **Pavement Marking Subcomponent**

Description	Value
Include Thermo/Tape/Other	N
Pavement Type	Asphalt
Solid Stripe No. of Paint Applications	2
Solid Stripe No. of Stripes	2
Skip Stripe No. of Paint Applications	2
Skip Stripe No. of Stripes	0

# Pay Items

Pay item	Description	<b>Quantity Unit</b>	Unit Price Ex	ctended Amount
710-11-101	PAINTED PAVT MARK.STD.WHITE.SOLID.6"	0.64 GM	\$1,448.65	\$927.14

# **Peripherals Subcomponent**

Description	Value
Off Road Bike Path(s)	0
Off Road Bike Path Width L/R	0.00 / 0.00
Bike Path Structural Spread Rate	0
Noise Barrier Wall Length	0.00
Noise Barrier Wall Begin Height	0.00
Noise Barrier Wall End Height	0.00

Roadway Component Total \$67,478.20

#### SHOULDER COMPONENT

# **User Input Data**

Description	Value
Existing Total Outside Shoulder Width L/R	6.00 / 6.00
New Total Outside Shoulder Width L/R	6.00 / 6.00
Total Outside Shoulder Perf. Turf Width L/R	4.00 / 2.00
Existing Paved Outside Shoulder Width L/R	0.00 / 0.00
New Paved Outside Shoulder Width L/R	2.00 / 4.00
Structural Spread Rate	110
Friction Course Spread Rate	80
Total Width (T) / 8" Overlap (O)	Т
Rumble Strips �No. of Sides	0

Pay item	Description	<b>Quantity Unit</b>	Unit Price Ex	tended Amount
285-704	OPTIONAL BASE, BASE GROUP 04	624.37 SY	\$42.51	\$26,541.97
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	30.94 TN	\$188.86	\$5,843.33
337-7-83	ASPH CONC FC,TRAFFIC C,FC- 12.5,PG 76-22	22.50 TN	\$206.53	\$4,646.92
570-1-1	PERFORMANCE TURF	562.50 SY	\$6.88	\$3,870.00

#### **Erosion Control**

#### Pay Items

Pay item	Description	<b>Quantity Unit</b>	Unit Price	Extended Amount
104-10-3	SEDIMENT BARRIER	1,940.61 LF	\$3.32	\$6,442.83
104-11	FLOATING TURBIDITY BARRIER	15.98 LF	\$15.96	\$255.04
104-12	STAKED TURBIDITY BARRIER- NYL REINF PVC	15.98 LF	\$19.18	\$306.50
104-15	SOIL TRACKING PREVENTION DEVICE	1.00 EA	\$4,709.30	\$4,709.30
104-18	INLET PROTECTION SYSTEM	1.00 EA	\$192.13	\$192.13
107-1	LITTER REMOVAL	0.39 AC	\$57.61	\$22.47
107-2	MOWING	0.39 AC	\$94.35	\$36.80
	Shoulder Component Total			\$52,867.30

#### **DRAINAGE COMPONENT**

Pay Items				
Pay item	Description	<b>Quantity Unit</b>	Unit Price Ex	xtended Amount
430-174-124	PIPE CULV, OPT MATL, ROUND,24"SD	24.00 LF	\$278.89	\$6,693.36
430-175-136	PIPE CULV, OPT MATL, ROUND, 36"S/CD	16.00 LF	\$310.89	\$4,974.24
430-984-129	MITERED END SECT, OPTIONAL RD, 24" SD	2.00 EA	\$3,624.19	\$7,248.38
570-1-1	PERFORMANCE TURF	64.56 SY	\$6.88	\$444.17
	Drainage Component Total			\$19,360.15

#### SIGNING COMPONENT

Pay Items				
Pay item	Description	<b>Quantity Unit</b>	Unit Price E	Extended Amount
700-1-111	SINGLE COL GRND SIGN AS, F&I GM, <12 SF	1.00 EA	\$424.18	\$424.18
700-1-112	SINGLE COL GRND SIGN AS, F&I GM, 12-20	4.00 EA	\$1,908.83	\$7,635.32
700-1-500	SINGLE COL GRND SIGN AS, RELOCATE	1.00 EA	\$347.45	\$347.45
700-1-600	SINGLE COL GRND SIGN AS, REMOVE	4.00 EA	\$58.36	\$233.44
700-2-113	MULTI- COLUMN SIGN, F&I GM, 20.1-30 SF	1.00 EA	\$6,727.35	\$6,727.35
700-2-600	MULTI- COLUMN GROUND SIGN, REMOVE	1.00 EA	\$1,238.78	\$1,238.78
	Signing Component Total			\$16,606.52

#### **LIGHTING COMPONENT**

**Rural Lighting Subcomponent** 

DescriptionValueMultiplier (Number of Poles)5

Pay Items

Pay itemDescriptionQuantity UnitUnit PriceExtended Amount630-2-11CONDUIT, F& I, OPEN TRENCH1,000.00 LF\$24.85\$24,850.00

Sequence 2	Total			\$326,915.49
	Lighting Component Total			\$138,898.75
	Subcomponent Total			\$138,898.75
715-500-1	POLE CABLE DIST SYS, CONVENTIONAL	5.00 EA	\$1,175.12	\$5,875.60
715-61-442	LIGHT POLE CMPLT,STD,F&I, 45'MH,12'ARM L	5.00 EA	\$16,000.00	\$80,000.00
715-1-13	LIGHTING CONDUCTORS, F&I, INSUL, NO.4-2	3,000.00 LF	\$6.55	\$19,650.00
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24"	5.00 EA	\$1,704.63	\$8,523.15
		-	•	

Sequence: 5 WUR - Widen/Resurface, Undivided, Rural

Net Length:

0.134 MI
708 LF

Description: Ramp B - NB off one lane section

#### **EARTHWORK COMPONENT**

#### **User Input Data**

Description	Value
Standard Clearing and Grubbing Limits L/R	0.00 / 30.00
Incidental Clearing and Grubbing Area	0.00
Alignment Number	1
Distance	0.134
Top of Structural Course For Begin Section	102.00
Top of Structural Course For End Section	102.00
Horizontal Elevation For Begin Section	100.00
Horizontal Elevation For End Section	100.00
Existing Front Slope L/R	6 to 1 / 6 to 1
Existing Outside Shoulder Cross Slope L/R	6.00 % / 6.00 %
Front Slope L/R	6 to 1 / 6 to 1
Outside Shoulder Cross Slope L/R	6.00 % / 6.00 %
Roadway Cross Slope L/R	2.00 % / 2.00 %

#### Pay Items

Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	Extended Amount
110-1-1	CLEARING & GRUBBING	0.49 AC	\$27,331.53	\$13,392.45
	Farthwork Component Total			\$13 392 45

#### **ROADWAY COMPONENT**

#### **User Input Data**

Description	Value
Number of Lanes	1
Existing Roadway Pavement Width L/R	7.50 / 7.50
Structural Spread Rate	165
Friction Course Spread Rate	80
Widened Outside Pavement Width L/R	0.00 / 0.00
Widened Structural Spread Rate	275
Widened Friction Course Spread Rate	165

#### Pay Items

Pay item	Description	<b>Quantity Unit</b>	Unit Price Ex	tended Amount
160-4	TYPE B STABILIZATION	944.06 SY	\$21.48	\$20,278.41
327-70-5	MILLING EXIST ASPH PAVT, 2" AVG DEPTH	1,180.08 SY	\$6.30	\$7,434.50
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	97.36 TN	\$188.86	\$18,387.41
337-7-83	ASPH CONC FC,TRAFFIC C,FC- 12.5,PG 76-22	47.20 TN	\$206.53	\$9,748.22

#### **Pavement Marking Subcomponent**

Description	Value
Include Thermo/Tape/Other	N
Pavement Type	Asphalt
Solid Stripe No. of Paint Applications	2
Solid Stripe No. of Stripes	2
Skip Stripe No. of Paint Applications	2
Skip Stripe No. of Stripes	0

Pay Items

Pay item	Description	<b>Quantity Unit</b>	Unit Price Ex	tended Amount
710-11-101	PAINTED PAVT MARK,STD,WHITE,SOLID,6"	0.54 GM	\$1,448.65	\$782.27
	Roadway Component Total			\$56,630.81

#### SHOULDER COMPONENT

User li	าbut	Data
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Description	Value
Existing Total Outside Shoulder Width L/R	6.00 / 6.00
New Total Outside Shoulder Width L/R	6.00 / 6.00
Total Outside Shoulder Perf. Turf Width L/R	4.00 / 2.00
Existing Paved Outside Shoulder Width L/R	0.00 / 0.00
New Paved Outside Shoulder Width L/R	2.00 / 4.00
Structural Spread Rate	110
Friction Course Spread Rate	80
Total Width (T) / 8" Overlap (O)	Т
Rumble Strips �No. of Sides	0

# Pay Items

Pay item	Description	<b>Quantity Unit</b>	Unit Price Ex	tended Amount
285-704	OPTIONAL BASE,BASE GROUP 04	523.96 SY	\$42.51	\$22,273.54
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	25.96 TN	\$188.86	\$4,902.81
337-7-83	ASPH CONC FC,TRAFFIC C,FC- 12.5,PG 76-22	18.88 TN	\$206.53	\$3,899.29
570-1-1	PERFORMANCE TURF	472.03 SY	\$6.88	\$3,247.57

#### **Erosion Control**

# Pay Items

Pay item	Description	<b>Quantity Unit</b>	Unit Price Ext	ended Amount
104-10-3	SEDIMENT BARRIER	1,628.51 LF	\$3.32	\$5,406.65
104-11	FLOATING TURBIDITY BARRIER	13.41 LF	\$15.96	\$214.02
104-12	STAKED TURBIDITY BARRIER- NYL REINF PVC	13.41 LF	\$19.18	\$257.20
104-15	SOIL TRACKING PREVENTION DEVICE	1.00 EA	\$4,709.30	\$4,709.30
104-18	INLET PROTECTION SYSTEM	1.00 EA	\$192.13	\$192.13
107-1	LITTER REMOVAL	0.32 AC	\$57.61	\$18.44
107-2	MOWING	0.32 AC	\$94.35	\$30.19
	Shoulder Component Total			\$45,151.14

#### **DRAINAGE COMPONENT**

Pay Items				
Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	Extended Amount
430-174-124	PIPE CULV, OPT MATL, ROUND,24"SD	24.00 LF	\$278.89	\$6,693.36
430-175-136	PIPE CULV, OPT MATL, ROUND, 36"S/CD	8.00 LF	\$310.89	\$2,487.12
430-984-129	MITERED END SECT, OPTIONAL RD, 24" SD	2.00 EA	\$3,624.19	\$7,248.38
570-1-1	PERFORMANCE TURF	54.18 SY	\$6.88	\$372.76

# **Drainage Component Total**

\$16,801.62

\$257,734.35

#### **SIGNING COMPONENT**

Pay Items				
Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	Extended Amount
700-1-111	SINGLE COL GRND SIGN AS, F&I GM, <12 SF	1.00 EA	\$424.18	\$424.18
700-1-112	SINGLE COL GRND SIGN AS, F&I GM, 12-20	3.00 EA	\$1,908.83	\$5,726.49
700-1-500	SINGLE COL GRND SIGN AS, RELOCATE	1.00 EA	\$347.45	\$347.45
700-1-600	SINGLE COL GRND SIGN AS, REMOVE	3.00 EA	\$58.36	\$175.08
700-2-113	MULTI- COLUMN SIGN, F&I GM, 20.1-30 SF	1.00 EA	\$6,727.35	\$6,727.35
700-2-600	MULTI- COLUMN GROUND SIGN, REMOVE	1.00 EA	\$1,238.78	\$1,238.78
	Signing Component Total			\$14,639.33

#### LIGHTING COMPONENT

Rural Lie	ahtina Sub	component
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Sequence 5 Total

Description				Value
Multiplier (Nun	nber of Poles)			4
Pay Items				
Pay item	Description	<b>Quantity Unit</b>	Unit Price	<b>Extended Amount</b>
630-2-11	CONDUIT, F& I, OPEN TRENCH	800.00 LF	\$24.85	\$19,880.00
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24"	4.00 EA	\$1,704.63	\$6,818.52
715-1-13	LIGHTING CONDUCTORS, F&I, INSUL, NO.4-2	2,400.00 LF	\$6.55	\$15,720.00
715-61-442	LIGHT POLE CMPLT,STD,F&I, 45'MH,12'ARM L	4.00 EA	\$16,000.00	\$64,000.00
715-500-1	POLE CABLE DIST SYS, CONVENTIONAL	4.00 EA	\$1,175.12	\$4,700.48
	Subcomponent Total			\$111,119.00
	Lighting Component Total			\$111,119.00

Sequence: 6 WUR - Widen/Resurface, Undivided, Rural

Net Length:

0.199 MI
1,052 LF

Description: Ramp B - NB off four lane section

#### **EARTHWORK COMPONENT**

#### **User Input Data**

Description	Value
Standard Clearing and Grubbing Limits L/R	30.00 / 30.00
Incidental Clearing and Grubbing Area	0.00
Alignment Number	1
Distance	0.199
Top of Structural Course For Begin Section	102.00
Top of Structural Course For End Section	102.00
Horizontal Elevation For Begin Section	100.00
Horizontal Elevation For End Section	100.00
Existing Front Slope L/R	6 to 1 / 6 to 1
Existing Outside Shoulder Cross Slope L/R	6.00 % / 6.00 %
Front Slope L/R	6 to 1 / 6 to 1
Outside Shoulder Cross Slope L/R	6.00 % / 6.00 %
Roadway Cross Slope L/R	2.00 % / 2.00 %

#### Pay Items

,				
Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	Extended Amount
110-1-1	CLEARING & GRUBBING	1.45 AC	\$27,331.53	\$39,630.72
120-2-2	BORROW EXCAVATION, TRUCK MEASURE	591.52 CY	\$53.86	\$31,859.27
	Earthwork Component Total			\$71,489.99

# **ROADWAY COMPONENT**

#### **User Input Data**

Description	Value
Number of Lanes	4
Existing Roadway Pavement Width L/R	7.50 / 7.50
Structural Spread Rate	165
Friction Course Spread Rate	80
Widened Outside Pavement Width L/R	16.50 / 16.50
Widened Structural Spread Rate	275
Widened Friction Course Spread Rate	165

# Pay Items

Pay item	Description	<b>Quantity Unit</b>	Unit Price	<b>Extended Amount</b>
160-4	TYPE B STABILIZATION	6,193.79 SY	\$21.48	\$133,042.61
285-709	OPTIONAL BASE,BASE GROUP 09	3,933.64 SY	\$58.67	\$230,786.66
327-70-5	MILLING EXIST ASPH PAVT, 2" AVG DEPTH	1,752.96 SY	\$6.30	\$11,043.65
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	144.62 TN	\$188.86	\$27,312.93
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	530.27 TN	\$188.86	\$100,146.79
337-7-83	ASPH CONC FC,TRAFFIC C,FC- 12.5,PG 76-22	70.12 TN	\$206.53	\$14,481.88
337-7-83	ASPH CONC FC,TRAFFIC C,FC- 12.5,PG 76-22	318.16 TN	\$206.53	\$65,709.58

# **Pavement Marking Subcomponent**

Description	Value
Include Thermo/Tape/Other	N
Pavement Type	Asphalt
Solid Stripe No. of Paint Applications	2
Solid Stripe No. of Stripes	2
Skip Stripe No. of Paint Applications	2
Skip Stripe No. of Stripes	3

### Pay Items

Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
706-1-3	RAISED PAVMT MARK, TYPE B	134.00 EA	\$5.29	\$708.86
710-11-101	PAINTED PAVT MARK,STD,WHITE,SOLID,6"	0.80 GM	\$1,448.65	\$1,158.92
710-11-231	PAINTED PAVT MARK,STD,YELLOW,SKIP,6"	1.20 GM	\$693.74	\$832.49

# **Peripherals Subcomponent**

Description	Value
Off Road Bike Path(s)	0
Off Road Bike Path Width L/R	0.00 / 0.00
Bike Path Structural Spread Rate	0
Noise Barrier Wall Length	0.00
Noise Barrier Wall Begin Height	0.00
Noise Barrier Wall End Height	0.00

### Roadway Component Total

\$585,224.37

### SHOULDER COMPONENT

### **User Input Data**

Description	Value
Existing Total Outside Shoulder Width L/R	6.00 / 6.00
New Total Outside Shoulder Width L/R	8.00 / 12.00
Total Outside Shoulder Perf. Turf Width L/R	4.00 / 2.00
Existing Paved Outside Shoulder Width L/R	0.00 / 0.00
New Paved Outside Shoulder Width L/R	4.00 / 10.00
Structural Spread Rate	110
Friction Course Spread Rate	80
Total Width (T) / 8" Overlap (O)	Т
Rumble Strips �No. of Sides	0

# Pay Items

Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
285-704	OPTIONAL BASE,BASE GROUP 04	1,713.23 SY	\$42.51	\$72,829.41
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	89.99 TN	\$188.86	\$16,995.51
337-7-83	ASPH CONC FC,TRAFFIC C,FC- 12.5,PG 76-22	65.44 TN	\$206.53	\$13,515.32
570-1-1	PERFORMANCE TURF	701.18 SY	\$6.88	\$4,824.12

### **Erosion Control**

# Pay Items

Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
104-10-3	SEDIMENT BARRIER	2,419.08 LF	\$3.32	\$8,031.35
104-11	FLOATING TURBIDITY BARRIER	19.92 LF	\$15.96	\$317.92
104-12	STAKED TURBIDITY BARRIER- NYL REINF PVC	19.92 LF	\$19.18	\$382.07

	Shoulder Component Total			\$121,870.07
107-2	MOWING	0.48 AC	\$94.35	\$45.29
107-1	LITTER REMOVAL	0.48 AC	\$57.61	\$27.65
104-18	INLET PROTECTION SYSTEM	1.00 EA	\$192.13	\$192.13
104-15	SOIL TRACKING PREVENTION DEVICE	1.00 EA	\$4,709.30	\$4,709.30

### **DRAINAGE COMPONENT**

Pay Items				
Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
430-174-124	PIPE CULV, OPT MATL, ROUND,24"SD	32.00 LF	\$278.89	\$8,924.48
430-175-136	PIPE CULV, OPT MATL, ROUND, 36"S/CD	16.00 LF	\$310.89	\$4,974.24
430-984-129	MITERED END SECT, OPTIONAL RD, 24" SD	2.00 EA	\$3,624.19	\$7,248.38
570-1-1	PERFORMANCE TURF	80.48 SY	\$6.88	\$553.70
	Drainage Component Total			\$21,700.80

### **SIGNING COMPONENT**

Pay Items				
Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
700-1-111	SINGLE COL GRND SIGN AS, F&I GM, <12 SF	1.00 EA	\$424.18	\$424.18
700-1-112	SINGLE COL GRND SIGN AS, F&I GM, 12-20	4.00 EA	\$1,908.83	\$7,635.32
700-1-500	SINGLE COL GRND SIGN AS, RELOCATE	1.00 EA	\$347.45	\$347.45
700-1-600	SINGLE COL GRND SIGN AS, REMOVE	4.00 EA	\$58.36	\$233.44
700-2-113	MULTI- COLUMN SIGN, F&I GM, 20.1-30 SF	1.00 EA	\$6,727.35	\$6,727.35
700-2-600	MULTI- COLUMN GROUND SIGN, REMOVE	1.00 EA	\$1,238.78	\$1,238.78
	Signing Component Total			\$16,606.52

### LIGHTING COMPONENT

<b>Description</b> Multiplier (Nun	nber of Poles)			<b>Value</b> 7
Pay Items	·			
Pay item	Description	Quantity Unit	<b>Unit Price</b>	Extended Amount
630-2-11	CONDUIT, F& I, OPEN TRENCH	1,400.00 LF	\$24.85	\$34,790.00
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24"	7.00 EA	\$1,704.63	\$11,932.41
715-1-13	LIGHTING CONDUCTORS, F&I, INSUL, NO.4-2	4,200.00 LF	\$6.55	\$27,510.00
715-61-442	LIGHT POLE CMPLT,STD,F&I, 45'MH,12'ARM L	7.00 EA	\$16,000.00	\$112,000.00
715-500-1	POLE CABLE DIST SYS, CONVENTIONAL	7.00 EA	\$1,175.12	\$8,225.84
	Subcomponent Total			\$194,458.25

Lighting Component Total	\$194,458.25
Sequence 6 Total	\$1,011,350.00

Sequence: 7 WUR - Widen/Resurface, Undivided, Rural

Net Length:

0.223 MI
1,177 LF

Description: Ramp C - NB on two lane section widening

### **EARTHWORK COMPONENT**

### **User Input Data**

<b>Description</b> Standard Clearing and Grubbing Limits L/R Incidental Clearing and Grubbing Area	<b>Value</b> 30.00 / 30.00 0.00
Alignment Number	1
Distance	0.223
Top of Structural Course For Begin Section	102.00
Top of Structural Course For End Section	102.00
Horizontal Elevation For Begin Section	100.00
Horizontal Elevation For End Section	100.00
Existing Front Slope L/R	6 to 1 / 6 to 1
Existing Outside Shoulder Cross Slope L/R	6.00 % / 6.00 %
Front Slope L/R	6 to 1 / 6 to 1
Outside Shoulder Cross Slope L/R	6.00 % / 6.00 %
Roadway Cross Slope L/R	2.00 % / 2.00 %

### Pay Items

Pay item	Description	Quantity Unit	Unit Price I	Extended Amount
110-1-1	CLEARING & GRUBBING	1.62 AC	\$27,331.53	\$44,277.08
120-2-2	BORROW EXCAVATION, TRUCK MEASURE	238.54 CY	\$53.86	\$12,847.76
	Earthwork Component Total			\$57,124.84

# **ROADWAY COMPONENT**

### **User Input Data**

Description	Value
Number of Lanes	2
Existing Roadway Pavement Width L/R	7.50 / 7.50
Structural Spread Rate	165
Friction Course Spread Rate	80
Widened Outside Pavement Width L/R	0.00 / 9.00
Widened Structural Spread Rate	275
Widened Friction Course Spread Rate	165

# Pay Items

Pay item	Description	<b>Quantity Unit</b>	Unit Price Ex	tended Amount
160-4	TYPE B STABILIZATION	3,792.27 SY	\$21.48	\$81,457.96
285-709	OPTIONAL BASE,BASE GROUP 09	1,220.07 SY	\$58.67	\$71,581.51
327-70-5	MILLING EXIST ASPH PAVT, 2" AVG DEPTH	1,961.52 SY	\$6.30	\$12,357.58
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	161.83 TN	\$188.86	\$30,563.21
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	161.83 TN	\$188.86	\$30,563.21
337-7-83	ASPH CONC FC,TRAFFIC C,FC- 12.5,PG 76-22	78.46 TN	\$206.53	\$16,204.34
337-7-83	ASPH CONC FC,TRAFFIC C,FC- 12.5,PG 76-22	97.10 TN	\$206.53	\$20,054.06

### **Pavement Marking Subcomponent**

Description	Value
Include Thermo/Tape/Other	N
Pavement Type	Asphalt
Solid Stripe No. of Paint Applications	2
Solid Stripe No. of Stripes	2
Skip Stripe No. of Paint Applications	2
Skip Stripe No. of Stripes	1

# Pay Items

Pay item	Description	<b>Quantity Unit</b>	Unit Price E	Extended Amount
706-1-3	RAISED PAVMT MARK, TYPE B	30.00 EA	\$5.29	\$158.70
710-11-101	PAINTED PAVT MARK,STD,WHITE,SOLID,6"	0.89 GM	\$1,448.65	\$1,289.30
710-11-231	PAINTED PAVT MARK,STD,YELLOW,SKIP,6"	0.45 GM	\$693.74	\$312.18

# **Peripherals Subcomponent**

Description	Value
Off Road Bike Path(s)	0
Off Road Bike Path Width L/R	0.00 / 0.00
Bike Path Structural Spread Rate	0
Noise Barrier Wall Length	0.00
Noise Barrier Wall Begin Height	0.00
Noise Barrier Wall End Height	0.00

Roadway Component Total \$264,542.05

### SHOULDER COMPONENT

### **User Input Data**

Description	Value
Existing Total Outside Shoulder Width L/R	6.00 / 6.00
New Total Outside Shoulder Width L/R	8.00 / 12.00
Total Outside Shoulder Perf. Turf Width L/R	4.00 / 2.00
Existing Paved Outside Shoulder Width L/R	0.00 / 0.00
New Paved Outside Shoulder Width L/R	4.00 / 10.00
Structural Spread Rate	110
Friction Course Spread Rate	80
Total Width (T) / 8" Overlap (O)	Т
Rumble Strips �No. of Sides	0

# Pay Items

Pay item	Description	<b>Quantity Unit</b>	Unit Price Ext	ended Amount
285-704	OPTIONAL BASE,BASE GROUP 04	1,917.06 SY	\$42.51	\$81,494.22
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	100.69 TN	\$188.86	\$19,016.31
337-7-83	ASPH CONC FC,TRAFFIC C,FC- 12.5,PG 76-22	73.23 TN	\$206.53	\$15,124.19
570-1-1	PERFORMANCE TURF	784.61 SY	\$6.88	\$5,398.12

### **Erosion Control**

# Pay Items

Pay item	Description	<b>Quantity Unit</b>	Unit Price E	xtended Amount
104-10-3	SEDIMENT BARRIER	2,706.90 LF	\$3.32	\$8,986.91
104-11	FLOATING TURBIDITY BARRIER	22.29 LF	\$15.96	\$355.75
104-12	STAKED TURBIDITY BARRIER- NYL REINF PVC	22.29 LF	\$19.18	\$427.52

	Shoulder Component Total			\$135,786.51
107-2	MOWING	0.54 AC	\$94.35	\$50.95
107-1	LITTER REMOVAL	0.54 AC	\$57.61	\$31.11
104-18	INLET PROTECTION SYSTEM	1.00 EA	\$192.13	\$192.13
104-15	SOIL TRACKING PREVENTION DEVICE	1.00 EA	\$4,709.30	\$4,709.30

### **DRAINAGE COMPONENT**

Pay Items				
Pay item	Description	<b>Quantity Unit</b>	Unit Price E	Extended Amount
430-174-124	PIPE CULV, OPT MATL, ROUND,24"SD	40.00 LF	\$278.89	\$11,155.60
430-175-136	PIPE CULV, OPT MATL, ROUND, 36"S/CD	16.00 LF	\$310.89	\$4,974.24
430-984-129	MITERED END SECT, OPTIONAL RD, 24" SD	3.00 EA	\$3,624.19	\$10,872.57
570-1-1	PERFORMANCE TURF	90.05 SY	\$6.88	\$619.54
	Drainage Component Total			\$27,621.95

### **SIGNING COMPONENT**

Pay Items				
Pay item	Description	<b>Quantity Unit</b>	Unit Price	Extended Amount
700-1-111	SINGLE COL GRND SIGN AS, F&I GM, <12 SF	1.00 EA	\$424.18	\$424.18
700-1-112	SINGLE COL GRND SIGN AS, F&I GM, 12-20	5.00 EA	\$1,908.83	\$9,544.15
700-1-500	SINGLE COL GRND SIGN AS, RELOCATE	1.00 EA	\$347.45	\$347.45
700-1-600	SINGLE COL GRND SIGN AS, REMOVE	5.00 EA	\$58.36	\$291.80
700-2-113	MULTI- COLUMN SIGN, F&I GM, 20.1-30 SF	1.00 EA	\$6,727.35	\$6,727.35
700-2-600	MULTI- COLUMN GROUND SIGN, REMOVE	1.00 EA	\$1,238.78	\$1,238.78
	Signing Component Total			\$18,573.71

### LIGHTING COMPONENT

<b>Description</b> Multiplier (Nun	nber of Poles)			<b>Value</b> 8
Pay Items				
Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
630-2-11	CONDUIT, F& I, OPEN TRENCH	1,600.00 LF	\$24.85	\$39,760.00
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24"	8.00 EA	\$1,704.63	\$13,637.04
715-1-13	LIGHTING CONDUCTORS, F&I, INSUL, NO.4-2	4,800.00 LF	\$6.55	\$31,440.00
715-61-442	LIGHT POLE CMPLT,STD,F&I, 45'MH,12'ARM L	8.00 EA	\$16,000.00	\$128,000.00
715-500-1	POLE CABLE DIST SYS, CONVENTIONAL	8.00 EA	\$1,175.12	\$9,400.96
	Subcomponent Total			\$222,238.00

Lighting Component Total	\$222,238.00
Sequence 7 Total	\$725,887.06

Sequence: 8 WUR - Widen/Resurface, Undivided, Rural

Net Length:

0.298 MI
1,575 LF

Description: Ramp C - NB on one lane section

### **EARTHWORK COMPONENT**

### **User Input Data**

Description	Value
Standard Clearing and Grubbing Limits L/R	30.00 / 30.00
Incidental Clearing and Grubbing Area	0.00
Alignment Number	1
Distance	0.298
Top of Structural Course For Begin Section	102.00
Top of Structural Course For End Section	102.00
Horizontal Elevation For Begin Section	100.00
Horizontal Elevation For End Section	100.00
Existing Front Slope L/R	6 to 1 / 6 to 1
Existing Outside Shoulder Cross Slope L/R	6.00 % / 6.00 %
Front Slope L/R	6 to 1 / 6 to 1
Outside Shoulder Cross Slope L/R	6.00 % / 6.00 %

### Pay Items

Roadway Cross Slope L/R

Pay item	Description	Quantity Unit	Unit Price Ext	ended Amount
110-1-1	CLEARING & GRUBBING	2.17 AC	\$27,331.53	\$59,309.42
	Earthwork Component Total			\$59.309.42

### **ROADWAY COMPONENT**

### **User Input Data**

Description	Value
Number of Lanes	1
Existing Roadway Pavement Width L/R	7.50 / 7.50
Structural Spread Rate	165
Friction Course Spread Rate	80
Widened Outside Pavement Width L/R	0.00 / 0.00
Widened Structural Spread Rate	275
Widened Friction Course Spread Rate	165

### Pay Items

Pay item	Description	<b>Quantity Unit</b>	Unit Price Ext	ended Amount
160-4	TYPE B STABILIZATION	2,100.03 SY	\$21.48	\$45,108.64
327-70-5	MILLING EXIST ASPH PAVT, 2" AVG DEPTH	2,625.04 SY	\$6.30	\$16,537.75
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	216.57 TN	\$188.86	\$40,901.41
337-7-83	ASPH CONC FC,TRAFFIC C,FC- 12.5,PG 76-22	105.00 TN	\$206.53	\$21,685.65

### **Pavement Marking Subcomponent**

Description	Value
Include Thermo/Tape/Other	N
Pavement Type	Asphalt
Solid Stripe No. of Paint Applications	2
Solid Stripe No. of Stripes	2
Skip Stripe No. of Paint Applications	2
Skip Stripe No. of Stripes	0

2.00 % / 2.00 %

Pay	Items
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Pay item	Description	Quantity Unit	Unit Price Exte	ended Amount
710-11-101	PAINTED PAVT MARK.STD.WHITE.SOLID.6"	1.19 GM	\$1,448.65	\$1,723.89

# **Peripherals Subcomponent**

Description	Value
Off Road Bike Path(s)	0
Off Road Bike Path Width L/R	0.00 / 0.00
Bike Path Structural Spread Rate	0
Noise Barrier Wall Length	0.00
Noise Barrier Wall Begin Height	0.00
Noise Barrier Wall End Height	0.00

# Roadway Component Total

### SHOULDER COMPONENT

### **User Input Data**

Description	Value
Existing Total Outside Shoulder Width L/R	6.00 / 6.00
New Total Outside Shoulder Width L/R	6.00 / 6.00
Total Outside Shoulder Perf. Turf Width L/R	4.00 / 2.00
Existing Paved Outside Shoulder Width L/R	0.00 / 0.00
New Paved Outside Shoulder Width L/R	2.00 / 4.00
Structural Spread Rate	110
Friction Course Spread Rate	80
Total Width (T) / 8" Overlap (O)	Т
Rumble Strips i; ½No. of Sides	0

# Pay Items

Pay item	Description	<b>Quantity Unit</b>	Unit Price Ext	ended Amount
285-704	OPTIONAL BASE, BASE GROUP 04	1,165.52 SY	\$42.51	\$49,546.26
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	57.75 TN	\$188.86	\$10,906.66
337-7-83	ASPH CONC FC,TRAFFIC C,FC- 12.5,PG 76-22	42.00 TN	\$206.53	\$8,674.26
570-1-1	PERFORMANCE TURF	1,050.02 SY	\$6.88	\$7,224.14

# **Erosion Control**

# Pay Items

Pay item	Description	<b>Quantity Unit</b>	Unit Price Ext	ended Amount
104-10-3	SEDIMENT BARRIER	3,622.56 LF	\$3.32	\$12,026.90
104-11	FLOATING TURBIDITY BARRIER	29.83 LF	\$15.96	\$476.09
104-12	STAKED TURBIDITY BARRIER- NYL REINF PVC	29.83 LF	\$19.18	\$572.14
104-15	SOIL TRACKING PREVENTION DEVICE	1.00 EA	\$4,709.30	\$4,709.30
104-18	INLET PROTECTION SYSTEM	1.00 EA	\$192.13	\$192.13
107-1	LITTER REMOVAL	0.72 AC	\$57.61	\$41.48
107-2	MOWING	0.72 AC	\$94.35	\$67.93
	Shoulder Component Total			\$94,437.30

### **DRAINAGE COMPONENT**

\$125,957.34

Pay Items				
Pay item	Description	<b>Quantity Unit</b>	Unit Price Ex	xtended Amount
430-174-124	PIPE CULV, OPT MATL, ROUND,24"SD	48.00 LF	\$278.89	\$13,386.72
430-175-136	PIPE CULV, OPT MATL, ROUND, 36"S/CD	24.00 LF	\$310.89	\$7,461.36
430-984-129	MITERED END SECT, OPTIONAL RD, 24" SD	3.00 EA	\$3,624.19	\$10,872.57
570-1-1	PERFORMANCE TURF	120.51 SY	\$6.88	\$829.11
	Drainage Component Total			\$32,549.76

### **SIGNING COMPONENT**

Pay Items				
Pay item	Description	<b>Quantity Unit</b>	Unit Price Ex	tended Amount
700-1-111	SINGLE COL GRND SIGN AS, F&I GM, <12 SF	1.00 EA	\$424.18	\$424.18
700-1-112	SINGLE COL GRND SIGN AS, F&I GM, 12-20	6.00 EA	\$1,908.83	\$11,452.98
700-1-500	SINGLE COL GRND SIGN AS, RELOCATE	1.00 EA	\$347.45	\$347.45
700-1-600	SINGLE COL GRND SIGN AS, REMOVE	6.00 EA	\$58.36	\$350.16
700-2-113	MULTI- COLUMN SIGN, F&I GM, 20.1-30 SF	1.00 EA	\$6,727.35	\$6,727.35
700-2-600	MULTI- COLUMN GROUND SIGN, REMOVE	1.00 EA	\$1,238.78	\$1,238.78
	Signing Component Total			\$20,540.90

### LIGHTING COMPONENT

Dural	Limbina	Cubaama	
Rurai	Liantina	Subcomp	oneni

Description Multiplier (Nur Pay Items	nber of Poles)		<b>Value</b> 10
Pay item	Description	Quantity Unit Unit F	Price Extended Amount
630-2-11	CONDUIT, F& I, OPEN TRENCH	2,000.00 LF \$2	24.85 \$49,700.00
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24"	10.00 EA \$1,70	94.63 \$17,046.30
715-1-13	LIGHTING CONDUCTORS, F&I, INSUL, NO.4-2	6,000.00 LF \$	\$6.55 \$39,300.00
715-61-442	LIGHT POLE CMPLT,STD,F&I, 45'MH,12'ARM L	10.00 EA \$16,00	00.00 \$160,000.00
715-500-1	POLE CABLE DIST SYS, CONVENTIONAL	10.00 EA \$1,17	75.12 \$11,751.20
	Subcomponent Total		\$277,797.50
	Lighting Component Total		\$277,797.50

### ARCHITECTURAL COMPONENT

X-Items				
Pay item	Description	<b>Quantity Unit</b>	Unit Price E	xtended Amount
735-74	TOLL PLAZA, SINGLE LOCATION	1.00 LS	\$200,000.00	\$200,000.00
	Comment: M&R EXISTING TOLL GANTR	Υ		

Architectural Component Total	\$200,000.00
Sequence 8 Total	\$810,592.22

Sequence: 9 WUR - Widen/Resurface, Undivided, Rural

Net Length: 0.291 MI 1,536 LF

Description: Ramp D - SB off one lane section

### **EARTHWORK COMPONENT**

### **User Input Data**

Description Standard Clearing and Grubbing Limits L/R Incidental Clearing and Grubbing Area	<b>Value</b> 30.00 / 30.00 0.00
Alignment Number	1
Distance	0.291
Top of Structural Course For Begin Section	102.00
Top of Structural Course For End Section	102.00
Horizontal Elevation For Begin Section	100.00
Horizontal Elevation For End Section	100.00
Existing Front Slope L/R	6 to 1 / 6 to 1
Existing Outside Shoulder Cross Slope L/R	6.00 % / 6.00 %
Front Slope L/R	6 to 1 / 6 to 1
Outside Shoulder Cross Slope L/R	6.00 % / 6.00 %
Roadway Cross Slope L/R	2.00 % / 2.00 %

### Pay Items

Pay item	Description	<b>Quantity Unit</b>	Unit Price Ext	ended Amount
110-1-1	CLEARING & GRUBBING	2.12 AC	\$27,331.53	\$57,942.84
	Earthwork Component Total			\$57,942.84

### **ROADWAY COMPONENT**

### **User Input Data**

Description	Value
Number of Lanes	1
Existing Roadway Pavement Width L/R	7.50 / 7.50
Structural Spread Rate	165
Friction Course Spread Rate	80
Widened Outside Pavement Width L/R	0.00 / 0.00
Widened Structural Spread Rate	275
Widened Friction Course Spread Rate	165

### Pay Items

Pay item	Description	<b>Quantity Unit</b>	Unit Price Exte	ended Amount
160-4	TYPE B STABILIZATION	2,047.94 SY	\$21.48	\$43,989.75
327-70-5	MILLING EXIST ASPH PAVT, 2" AVG DEPTH	2,559.92 SY	\$6.30	\$16,127.50
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	211.19 TN	\$188.86	\$39,885.34
337-7-83	ASPH CONC FC,TRAFFIC C,FC- 12.5,PG 76-22	102.40 TN	\$206.53	\$21,148.67

### **Pavement Marking Subcomponent**

Description	Value
Include Thermo/Tape/Other	N
Pavement Type	Asphalt
Solid Stripe No. of Paint Applications	2
Solid Stripe No. of Stripes	2
Skip Stripe No. of Paint Applications	2
Skip Stripe No. of Stripes	0

Pav Items	Pav	Items
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Pay item	Description	Quantity Unit	Unit Price Exte	ended Amount
710-11-101	PAINTED PAVT MARK.STD.WHITE.SOLID.6"	1.16 GM	\$1,448.65	\$1,680.43

# **Peripherals Subcomponent**

Description	Value
Off Road Bike Path(s)	0
Off Road Bike Path Width L/R	0.00 / 0.00
Bike Path Structural Spread Rate	0
Noise Barrier Wall Length	0.00
Noise Barrier Wall Begin Height	0.00
Noise Barrier Wall End Height	0.00

Roadway Component Total \$122,831.69

### SHOULDER COMPONENT

### **User Input Data**

Description	Value
Existing Total Outside Shoulder Width L/R	6.00 / 6.00
New Total Outside Shoulder Width L/R	6.00 / 6.00
Total Outside Shoulder Perf. Turf Width L/R	4.00 / 2.00
Existing Paved Outside Shoulder Width L/R	0.00 / 0.00
New Paved Outside Shoulder Width L/R	2.00 / 4.00
Structural Spread Rate	110
Friction Course Spread Rate	80
Total Width (T) / 8" Overlap (O)	Т
Rumble Strips i; 1/2No. of Sides	0

# Pay Items

Pay item	Description	<b>Quantity Unit</b>	Unit Price Ext	ended Amount
285-704	OPTIONAL BASE, BASE GROUP 04	1,136.60 SY	\$42.51	\$48,316.87
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	56.32 TN	\$188.86	\$10,636.60
337-7-83	ASPH CONC FC,TRAFFIC C,FC- 12.5,PG 76-22	40.96 TN	\$206.53	\$8,459.47
570-1-1	PERFORMANCE TURF	1,023.97 SY	\$6.88	\$7,044.91

### **Erosion Control**

# Pay Items

Pay item	Description	<b>Quantity Unit</b>	Unit Price Ext	ended Amount
104-10-3	SEDIMENT BARRIER	3,532.69 LF	\$3.32	\$11,728.53
104-11	FLOATING TURBIDITY BARRIER	29.09 LF	\$15.96	\$464.28
104-12	STAKED TURBIDITY BARRIER- NYL REINF PVC	29.09 LF	\$19.18	\$557.95
104-15	SOIL TRACKING PREVENTION DEVICE	1.00 EA	\$4,709.30	\$4,709.30
104-18	INLET PROTECTION SYSTEM	1.00 EA	\$192.13	\$192.13
107-1	LITTER REMOVAL	0.70 AC	\$57.61	\$40.33
107-2	MOWING	0.70 AC	\$94.35	\$66.04
	Shoulder Component Total			\$92,216.42

### **DRAINAGE COMPONENT**

Pay Items				
Pay item	Description	<b>Quantity Unit</b>	Unit Price Ex	ctended Amount
430-174-124	PIPE CULV, OPT MATL, ROUND,24"SD	48.00 LF	\$278.89	\$13,386.72
430-175-136	PIPE CULV, OPT MATL, ROUND, 36"S/CD	24.00 LF	\$310.89	\$7,461.36
430-984-129	MITERED END SECT, OPTIONAL RD, 24" SD	3.00 EA	\$3,624.19	\$10,872.57
570-1-1	PERFORMANCE TURF	117.52 SY	\$6.88	\$808.54
	Drainage Component Total			\$32,529.19

### **SIGNING COMPONENT**

Pay Items				
Pay item	Description	<b>Quantity Unit</b>	Unit Price Ex	tended Amount
700-1-111	SINGLE COL GRND SIGN AS, F&I GM, <12 SF	1.00 EA	\$424.18	\$424.18
700-1-112	SINGLE COL GRND SIGN AS, F&I GM, 12-20	6.00 EA	\$1,908.83	\$11,452.98
700-1-500	SINGLE COL GRND SIGN AS, RELOCATE	1.00 EA	\$347.45	\$347.45
700-1-600	SINGLE COL GRND SIGN AS, REMOVE	6.00 EA	\$58.36	\$350.16
700-2-113	MULTI- COLUMN SIGN, F&I GM, 20.1-30 SF	1.00 EA	\$6,727.35	\$6,727.35
700-2-600	MULTI- COLUMN GROUND SIGN, REMOVE	1.00 EA	\$1,238.78	\$1,238.78
	Signing Component Total			\$20,540.90

### LIGHTING COMPONENT

Dural	Limbina	Cubaama	
Rurai	Liantina	Subcomp	oneni

Description Multiplier (Nur Pay Items	nber of Poles)		<b>Value</b> 10
Pay item	Description	Quantity Unit Unit F	Price Extended Amount
630-2-11	CONDUIT, F& I, OPEN TRENCH	2,000.00 LF \$2	24.85 \$49,700.00
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24"	10.00 EA \$1,70	94.63 \$17,046.30
715-1-13	LIGHTING CONDUCTORS, F&I, INSUL, NO.4-2	6,000.00 LF \$	\$6.55 \$39,300.00
715-61-442	LIGHT POLE CMPLT,STD,F&I, 45'MH,12'ARM L	10.00 EA \$16,00	00.00 \$160,000.00
715-500-1	POLE CABLE DIST SYS, CONVENTIONAL	10.00 EA \$1,17	75.12 \$11,751.20
	Subcomponent Total		\$277,797.50
	Lighting Component Total		\$277,797.50

### ARCHITECTURAL COMPONENT

X-Items				
Pay item	Description	<b>Quantity Unit</b>	Unit Price E	xtended Amount
735-74	TOLL PLAZA, SINGLE LOCATION	1.00 LS	\$200,000.00	\$200,000.00
	Comment: M&R EXISTING TOLL GANTR	Υ		

Architectural Component Total	\$200,000.00
Sequence 9 Total	\$803,858.54

Sequence: 10 WUR - Widen/Resurface, Undivided, Rural

Net Length:

0.211 MI
1,115 LF

**Description:** Ramp D - SB off two lane section

### **EARTHWORK COMPONENT**

### **User Input Data**

Description	Value
Standard Clearing and Grubbing Limits L/R	30.00 / 30.00
Incidental Clearing and Grubbing Area	0.00
Alignment Number	1
Distance	0.211
Top of Structural Course For Begin Section	102.00
Top of Structural Course For End Section	102.00
Horizontal Elevation For Begin Section	100.00
Horizontal Elevation For End Section	100.00
Existing Front Slope L/R	6 to 1 / 6 to 1
Existing Outside Shoulder Cross Slope L/R	6.00 % / 6.00 %
Front Slope L/R	6 to 1 / 6 to 1
Outside Shoulder Cross Slope L/R	6.00 % / 6.00 %
Roadway Cross Slope L/R	2.00 % / 2.00 %

### Pay Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
110-1-1	CLEARING & GRUBBING	1.53 AC	\$27,331.53	\$41,817.24
120-2-2	BORROW EXCAVATION, TRUCK MEASURE	225.70 CY	\$53.86	\$12,156.20
	Earthwork Component Total			\$53,973.44

# **ROADWAY COMPONENT**

### **User Input Data**

Description	Value
Number of Lanes	2
Existing Roadway Pavement Width L/R	7.50 / 7.50
Structural Spread Rate	165
Friction Course Spread Rate	80
Widened Outside Pavement Width L/R	0.00 / 9.00
Widened Structural Spread Rate	275
Widened Friction Course Spread Rate	165

# Pay Items

Pay item	Description	<b>Quantity Unit</b>	Unit Price Ex	tended Amount
160-4	TYPE B STABILIZATION	3,593.22 SY	\$21.48	\$77,182.37
285-709	OPTIONAL BASE,BASE GROUP 09	1,156.02 SY	\$58.67	\$67,823.69
327-70-5	MILLING EXIST ASPH PAVT, 2" AVG DEPTH	1,858.56 SY	\$6.30	\$11,708.93
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	153.33 TN	\$188.86	\$28,957.90
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	153.33 TN	\$188.86	\$28,957.90
337-7-83	ASPH CONC FC,TRAFFIC C,FC- 12.5,PG 76-22	74.34 TN	\$206.53	\$15,353.44
337-7-83	ASPH CONC FC,TRAFFIC C,FC- 12.5,PG 76-22	92.00 TN	\$206.53	\$19,000.76

### **Pavement Marking Subcomponent**

Description	Value
Include Thermo/Tape/Other	N
Pavement Type	Asphalt
Solid Stripe No. of Paint Applications	2
Solid Stripe No. of Stripes	2
Skip Stripe No. of Paint Applications	2
Skip Stripe No. of Stripes	1

# Pay Items

Pay item	Description	<b>Quantity Unit</b>	Unit Price E	xtended Amount
706-1-3	RAISED PAVMT MARK, TYPE B	29.00 EA	\$5.29	\$153.41
710-11-101	PAINTED PAVT MARK,STD,WHITE,SOLID,6"	0.84 GM	\$1,448.65	\$1,216.87
710-11-231	PAINTED PAVT MARK,STD,YELLOW,SKIP,6"	0.42 GM	\$693.74	\$291.37

# **Peripherals Subcomponent**

Description	Value
Off Road Bike Path(s)	0
Off Road Bike Path Width L/R	0.00 / 0.00
Bike Path Structural Spread Rate	0
Noise Barrier Wall Length	0.00
Noise Barrier Wall Begin Height	0.00
Noise Barrier Wall End Height	0.00

Roadway Component Total

### SHOULDER COMPONENT

# **User Input Data**

Description	Value
Existing Total Outside Shoulder Width L/R	6.00 / 6.00
New Total Outside Shoulder Width L/R	8.00 / 12.00
Total Outside Shoulder Perf. Turf Width L/R	4.00 / 2.00
Existing Paved Outside Shoulder Width L/R	0.00 / 0.00
New Paved Outside Shoulder Width L/R	4.00 / 10.00
Structural Spread Rate	110
Friction Course Spread Rate	80
Total Width (T) / 8" Overlap (O)	Т
Rumble Strips �No. of Sides	0

# Pay Items

Pay item	Description	<b>Quantity Unit</b>	Unit Price Ex	tended Amount
285-704	OPTIONAL BASE, BASE GROUP 04	1,816.43 SY	\$42.51	\$77,216.44
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	95.41 TN	\$188.86	\$18,019.13
337-7-83	ASPH CONC FC,TRAFFIC C,FC- 12.5,PG 76-22	69.39 TN	\$206.53	\$14,331.12
570-1-1	PERFORMANCE TURF	743.42 SY	\$6.88	\$5,114.73

### **Erosion Control**

# Pay Items

Pay item	Description	<b>Quantity Unit</b>	Unit Price Ext	ended Amount
104-10-3	SEDIMENT BARRIER	2,564.81 LF	\$3.32	\$8,515.17
104-11	FLOATING TURBIDITY BARRIER	21.12 LF	\$15.96	\$337.08
104-12	STAKED TURBIDITY BARRIER- NYL REINF PVC	21.12 LF	\$19.18	\$405.08

\$250,646.64

	Shoulder Component Total			\$128,917.68
107-2	MOWING	0.51 AC	\$94.35	\$48.12
107-1	LITTER REMOVAL	0.51 AC	\$57.61	\$29.38
104-18	INLET PROTECTION SYSTEM	1.00 EA	\$192.13	\$192.13
104-15	SOIL TRACKING PREVENTION DEVICE	1.00 EA	\$4,709.30	\$4,709.30

### **DRAINAGE COMPONENT**

Pay Items				
Pay item	Description	<b>Quantity Unit</b>	Unit Price I	Extended Amount
430-174-124	PIPE CULV, OPT MATL, ROUND,24"SD	32.00 LF	\$278.89	\$8,924.48
430-175-136	PIPE CULV, OPT MATL, ROUND, 36"S/CD	16.00 LF	\$310.89	\$4,974.24
430-984-129	MITERED END SECT, OPTIONAL RD, 24" SD	3.00 EA	\$3,624.19	\$10,872.57
570-1-1	PERFORMANCE TURF	85.32 SY	\$6.88	\$587.00
	Drainage Component Total			\$25,358.29

### **SIGNING COMPONENT**

Pay Items				
Pay item	Description	<b>Quantity Unit</b>	Unit Price I	Extended Amount
700-1-111	SINGLE COL GRND SIGN AS, F&I GM, <12 SF	1.00 EA	\$424.18	\$424.18
700-1-112	SINGLE COL GRND SIGN AS, F&I GM, 12-20	5.00 EA	\$1,908.83	\$9,544.15
700-1-500	SINGLE COL GRND SIGN AS, RELOCATE	1.00 EA	\$347.45	\$347.45
700-1-600	SINGLE COL GRND SIGN AS, REMOVE	5.00 EA	\$58.36	\$291.80
700-2-113	MULTI- COLUMN SIGN, F&I GM, 20.1-30 SF	1.00 EA	\$6,727.35	\$6,727.35
700-2-600	MULTI- COLUMN GROUND SIGN, REMOVE	1.00 EA	\$1,238.78	\$1,238.78
	Signing Component Total			\$18,573.71

### LIGHTING COMPONENT

<b>Description</b> Multiplier (Nun	nber of Poles)			<b>Value</b> 7
Pay Items	,			
Pay item	Description	Quantity Unit	<b>Unit Price</b>	Extended Amount
630-2-11	CONDUIT, F& I, OPEN TRENCH	1,400.00 LF	\$24.85	\$34,790.00
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24"	7.00 EA	\$1,704.63	\$11,932.41
715-1-13	LIGHTING CONDUCTORS, F&I, INSUL, NO.4-2	4,200.00 LF	\$6.55	\$27,510.00
715-61-442	LIGHT POLE CMPLT,STD,F&I, 45'MH,12'ARM L	7.00 EA	\$16,000.00	\$112,000.00
715-500-1	POLE CABLE DIST SYS, CONVENTIONAL	7.00 EA	\$1,175.12	\$8,225.84
	Subcomponent Total			\$194,458.25

Lighting Component Total	\$194,458.25
Sequence 10 Total	\$671,928.01

Sequence: 14 WDR - Widen/Resurface, Divided, Rural

Net Length: 0.527 MI 2,780 LF

**Description:** Ridge road

### **EARTHWORK COMPONENT**

### **User Input Data**

Description	Value
Standard Clearing and Grubbing Limits L/R	25.00 / 25.00
Incidental Clearing and Grubbing Area	0.00
	,
Alignment Number	1
Distance	0.526
Top of Structural Course For Begin Section	102.00
Top of Structural Course For End Section	102.00
Horizontal Elevation For Begin Section	100.00
Horizontal Elevation For End Section	100.00
Existing Front Slope L/R	6 to 1 / 6 to 1
Existing Median Slope L/R	6 to 1 / 6 to 1
Existing Median Shoulder Cross Slope L/R	5.00 % / 5.00 %
Existing Outside Shoulder Cross Slope L/R	6.00 % / 6.00 %
Front Slope L/R	6 to 1 / 6 to 1
Median Slope L/R	6 to 1 / 6 to 1
Median Shoulder Cross Slope L/R	5.00 % / 5.00 %
Outside Shoulder Cross Slope L/R	6.00 % / 6.00 %
Roadway Cross Slope L/R	2.00 % / 2.00 %

### Pay Items

ray itellis				
Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
110-1-1	CLEARING & GRUBBING	3.19 AC	\$27,331.53	\$87,187.58
120-2-2	BORROW EXCAVATION, TRUCK MEASURE	340.47 CY	\$53.86	\$18,337.71
	Earthwork Component Total			\$105,525.29

### **ROADWAY COMPONENT**

# **User Input Data**

Description	Value
Number of Lanes	5
Existing Roadway Pavement Width L/R	24.00 / 24.00
Structural Spread Rate	220
Friction Course Spread Rate	80
Widened Outside Pavement Width L/R	0.00 / 14.00
Widened Inside Pavement Width L/R	0.00 / 0.00
Widened Structural Spread Rate	330
Widened Friction Course Spread Rate	80

# Pay Items

Pay item	Description	<b>Quantity Unit</b>	Unit Price	Extended Amount
160-4	TYPE B STABILIZATION	9,884.16 SY	\$21.48	\$212,311.76
285-709	OPTIONAL BASE,BASE GROUP 09	4,426.25 SY	\$58.67	\$259,688.09
327-70-5	MILLING EXIST ASPH PAVT, 2" AVG DEPTH	14,826.24 SY	\$6.30	\$93,405.31
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	1,630.89 TN	\$188.86	\$308,009.89
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	713.51 TN	\$188.86	\$134,753.50

337-7-25	ASPH CONC FC,INC BIT,FC- 5,PG76-22	593.05 TN	\$247.36	\$146,696.85
337-7-25	ASPH CONC FC,INC BIT,FC- 5,PG76-22	172.97 TN	\$247.36	\$42,785.86

### **Pavement Marking Subcomponent**

Description	Value
Include Thermo/Tape/Other	N
Pavement Type	Asphalt
Solid Stripe No. of Paint Applications	2
Solid Stripe No. of Stripes	4
Skip Stripe No. of Paint Applications	2
Skip Stripe No. of Stripes	3

### Pay Items

Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
706-1-3	RAISED PAVMT MARK, TYPE B	284.00 EA	\$5.29	\$1,502.36
710-11-101	PAINTED PAVT MARK,STD,WHITE,SOLID,6"	4.21 GM	\$1,448.65	\$6,098.82
710-11-131	PAINTED PAVT MARK,STD,WHITE,SKIP, 6"	3.16 GM	\$598.83	\$1,892.30
	Roadway Component Total			\$1,207,144.74

### SHOULDER COMPONENT

### **User Input Data**

Description	Value
Existing Total Outside Shoulder Width L/R	8.00 / 10.00
New Total Outside Shoulder Width L/R	8.00 / 10.00
Total Outside Shoulder Perf. Turf Width L/R	4.00 / 5.00
Existing Paved Outside Shoulder Width L/R	0.00 / 0.00
New Paved Outside Shoulder Width L/R	4.00 / 5.00
Structural Spread Rate	110
Friction Course Spread Rate	80
Total Width (T) / 8" Overlap (O)	Т
Rumble Strips i; ½No. of Sides	0

# Pay Items

Pay item	Description	<b>Quantity Unit</b>	Unit Price	Extended Amount
285-704	OPTIONAL BASE,BASE GROUP 04	2,983.78 SY	\$42.51	\$126,840.49
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	152.90 TN	\$188.86	\$28,876.69
337-7-25	ASPH CONC FC,INC BIT,FC- 5,PG76-22	111.20 TN	\$247.36	\$27,506.43
570-1-1	PERFORMANCE TURF	2,779.92 SY	\$6.88	\$19,125.85
X-Items				

Pay item	Description	Quantity Unit	Unit Price Ex	tended Amount
522-1	CONCRETE SIDEWALK AND DRIVEWAYS, 4"	1,358.00 SY	\$88.82	\$120,617.56
	Comment: SDWK northside			

### **Erosion Control**

### Pay Items

Pay item	Description	Quantity Unit	Unit Price Extended Amoun
104-10-3	SEDIMENT BARRIER	6,393.82 LF	\$3.32 \$21,227.48

		•	, ,	•	
104-11	FLOATING TURBIDITY BARRIER		52.65 LF	\$15.96	\$840.29
104-12	STAKED TURBIDITY BARRIER- NYL REINF PVC		52.65 LF	\$19.18	\$1,009.83
104-15	SOIL TRACKING PREVENTION DEVICE		1.00 EA	\$4,709.30	\$4,709.30
107-1	LITTER REMOVAL		3.83 AC	\$57.61	\$220.65
107-2	MOWING		3.83 AC	\$94.35	\$361.36
	Shoulder Component Total				\$351,335.93

### **MEDIAN COMPONENT**

User Input Data	
Description	Value
Total Median Width	40.00
Performance Turf Width	36.00
New Total Median Shoulder Width L/R	0.00 / 0.00
New Paved Median Shoulder Width L/R	0.00 / 0.00
Existing Total Median Shoulder Width L/R	0.00 / 0.00
Existing Paved Median Shoulder Width L/R	0.00 / 0.00
Structural Spread Rate	110
Friction Course Spread Rate	80
Total Width (T) / 8" Overlap (O)	Т
Rumble Strips �No. of Sides	0

Pay Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
570-1-1	PERFORMANCE TURF	11,119.68 SY	\$6.88	\$76,503.40
X-Items				
Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
520-1-10	CONCRETE CURB & GUTTER, TYPE F	1,164.00 LF	\$49.20	\$57,268.80
	Comment: median curb and gutter (lt/rt)			
	Median Component Total			\$133,772.20

### **DRAINAGE COMPONENT**

Pay Items				
Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	Extended Amount
430-174-124	PIPE CULV, OPT MATL, ROUND,24"SD	424.00 LF	\$278.89	\$118,249.36
430-175-136	PIPE CULV, OPT MATL, ROUND, 36"S/CD	48.00 LF	\$310.89	\$14,922.72
430-984-129	MITERED END SECT, OPTIONAL RD, 24" SD	22.00 EA	\$3,624.19	\$79,732.18
570-1-1	PERFORMANCE TURF	370.66 SY	\$6.88	\$2,550.14
	Drainage Component Total			\$215,454.40

### **SIGNING COMPONENT**

Pay Items				
Pay item	Description	<b>Quantity Unit</b>	Unit Price Ext	tended Amount
700-1-111	SINGLE COL GRND SIGN AS, F&I GM, <12 SF	2.00 EA	\$424.18	\$848.36

700-1-112	SINGLE COL GRND SIGN AS, F&I GM, 12-20	13.00 EA	\$1,908.83	\$24,814.79
700-1-500	SINGLE COL GRND SIGN AS, RELOCATE	2.00 EA	\$347.45	\$694.90
700-1-600	SINGLE COL GRND SIGN AS, REMOVE	13.00 EA	\$58.36	\$758.68
700-2-114	MULTI- COLUMN SIGN, F&I GM, 30.1-50 SF	2.00 EA	\$8,985.18	\$17,970.36
700-2-600	MULTI- COLUMN GROUND SIGN, REMOVE	2.00 EA	\$1,238.78	\$2,477.56
X-Items				
X-Items Pay item	Description	Quantity Unit	Unit Price	Extended Amount
	<b>Description</b> MULTI- COLUMN SIGN, F&I GM, 100.1-200 SF	Quantity Unit 4.00 EA	<b>Unit Price</b> \$17,590.91	Extended Amount \$70,363.64
Pay item	MULTI- COLUMN SIGN, F&I GM,	•		
<b>Pay item</b> 700-2-116	MULTI- COLUMN SIGN, F&I GM, 100.1-200 SF	4.00 EA	\$17,590.91	\$70,363.64
Pay item 700-2-116 700-3-105	MULTI- COLUMN SIGN, F&I GM, 100.1-200 SF SIGN PANEL, F&I GM, 51-100 SF	4.00 EA 4.00 EA	\$17,590.91 \$4,447.82	\$70,363.64 \$17,791.28

### **SIGNALIZATIONS COMPONENT**

Signalization 1	
Description	Value
Туре	4 Lane Mast Arm
Multiplier	2
Description	

Pay Items				
Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
630-2-11	CONDUIT, F& I, OPEN TRENCH	1,500.00 LF	\$24.85	\$37,275.00
630-2-12	CONDUIT, F& I, DIRECTIONAL BORE	500.00 LF	\$40.59	\$20,295.00
632-7-1	SIGNAL CABLE- NEW OR RECO, FUR & INSTALL	2.00 PI	\$14,658.36	\$29,316.72
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24"	32.00 EA	\$1,704.63	\$54,548.16
639-1-112	ELECTRICAL POWER SRV,F&I,OH,M,PUR BY CON	2.00 AS	\$5,820.61	\$11,641.22
639-2-1	ELECTRICAL SERVICE WIRE, F&I	120.00 LF	\$11.57	\$1,388.40
649-21-10	STEEL MAST ARM ASSEMBLY, F&I, 60'	8.00 EA	\$111,925.00	\$895,400.00
650-1-14	VEH TRAF SIGNAL,F&I ALUMINUM, 3 S 1 W	24.00 AS	\$1,865.91	\$44,781.84
653-1-11	PEDESTRIAN SIGNAL, F&I LED COUNT, 1 WAY	16.00 AS	\$1,277.10	\$20,433.60
660-1-102	LOOP DETECTOR INDUCTIVE, F&I, TYPE 2	24.00 EA	\$937.34	\$22,496.16
660-2-106	LOOP ASSEMBLY, F&I, TYPE F	24.00 AS	\$1,445.14	\$34,683.36
665-1-11	PEDESTRIAN DETECTOR, F&I, STANDARD	16.00 EA	\$397.78	\$6,364.48
670-5-111	TRAF CNTL ASSEM, F&I, NEMA, 1 PREEMPT	2.00 AS	\$51,081.29	\$102,162.58
700-3-101	SIGN PANEL, F&I GM, UP TO 12 SF	8.00 EA	\$294.09	\$2,352.72

### Signalizations Component Total

\$1,283,139.24

Sequence 14 Total

### LIGHTING COMPONENT

Rural Lighting Subcomponent	
Description	Value
MARCH (N. I. CD. I.)	07

			37
	Quantity Unit	Unit Price	Extended Amount
& I, OPEN TRENCH	7,400.00 LF	\$24.85	\$183,890.00
ICE BOX, F&I, 13" x	37.00 EA	\$1,704.63	\$63,071.31
ONDUCTORS, F&I, I-2	22,200.00 LF	\$6.55	\$145,410.00
E CMPLT,STD,F&I, RM L	37.00 EA	\$16,000.00	\$592,000.00
E DIST SYS, DNAL	37.00 EA	\$1,175.12	\$43,479.44
ent Total			\$1,027,850.75
component Total			\$1,027,850.75

\$4,844,816.54

Sequence: 15 WUR - Widen/Resurface, Undivided, Rural

Net Length:

0.284 MI
1,497 LF

**Description:** Ramp A - SB on two lane section

### **EARTHWORK COMPONENT**

### **User Input Data**

Description	Value
Standard Clearing and Grubbing Limits L/R	30.00 / 30.00
Incidental Clearing and Grubbing Area	0.00
Alignment Number	1
Distance	0.283
Top of Structural Course For Begin Section	102.00
Top of Structural Course For End Section	102.00
Horizontal Elevation For Begin Section	100.00
Horizontal Elevation For End Section	100.00
Existing Front Slope L/R	6 to 1 / 6 to 1
Existing Outside Shoulder Cross Slope L/R	6.00 % / 6.00 %
Front Slope L/R	6 to 1 / 6 to 1
Outside Shoulder Cross Slope L/R	6.00 % / 6.00 %
Roadway Cross Slope L/R	2.00 % / 2.00 %

### Pay Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
110-1-1	CLEARING & GRUBBING	2.07 AC	\$27,331.53	\$56,576.27
120-2-2	BORROW EXCAVATION, TRUCK MEASURE	302.72 CY	\$53.86	\$16,304.50
	Earthwork Component Total			\$72,880.77

# **ROADWAY COMPONENT**

### **User Input Data**

Description	Value
Number of Lanes	2
Existing Roadway Pavement Width L/R	7.50 / 7.50
Structural Spread Rate	165
Friction Course Spread Rate	80
Widened Outside Pavement Width L/R	0.00 / 9.00
Widened Structural Spread Rate	275
Widened Friction Course Spread Rate	165

# Pay Items

Pay item	Description	<b>Quantity Unit</b>	Unit Price Ex	ctended Amount
160-4	TYPE B STABILIZATION	4,823.28 SY	\$21.48	\$103,604.05
285-709	OPTIONAL BASE,BASE GROUP 09	1,551.77 SY	\$58.67	\$91,042.35
327-70-5	MILLING EXIST ASPH PAVT, 2" AVG DEPTH	2,494.80 SY	\$6.30	\$15,717.24
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	205.82 TN	\$188.86	\$38,871.17
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	205.82 TN	\$188.86	\$38,871.17
337-7-83	ASPH CONC FC,TRAFFIC C,FC- 12.5,PG 76-22	99.79 TN	\$206.53	\$20,609.63
337-7-83	ASPH CONC FC,TRAFFIC C,FC- 12.5,PG 76-22	123.49 TN	\$206.53	\$25,504.39

### **Pavement Marking Subcomponent**

Description	Value
Include Thermo/Tape/Other	N
Pavement Type	Asphalt
Solid Stripe No. of Paint Applications	2
Solid Stripe No. of Stripes	2
Skip Stripe No. of Paint Applications	2
Skip Stripe No. of Stripes	1

# Pay Items

Pay item	Description	<b>Quantity Unit</b>	Unit Price E	Extended Amount
706-1-3	RAISED PAVMT MARK, TYPE B	38.00 EA	\$5.29	\$201.02
710-11-101	PAINTED PAVT MARK,STD,WHITE,SOLID,6"	1.13 GM	\$1,448.65	\$1,636.97
710-11-231	PAINTED PAVT MARK,STD,YELLOW,SKIP,6"	0.57 GM	\$693.74	\$395.43

# **Peripherals Subcomponent**

Description	Value
Off Road Bike Path(s)	0
Off Road Bike Path Width L/R	0.00 / 0.00
Bike Path Structural Spread Rate	0
Noise Barrier Wall Length	0.00
Noise Barrier Wall Begin Height	0.00
Noise Barrier Wall End Height	0.00

Roadway Component Total

\$336,453.42

### SHOULDER COMPONENT

# **User Input Data**

Description	Value
Existing Total Outside Shoulder Width L/R	6.00 / 6.00
New Total Outside Shoulder Width L/R	8.00 / 12.00
Total Outside Shoulder Perf. Turf Width L/R	4.00 / 2.00
Existing Paved Outside Shoulder Width L/R	0.00 / 0.00
New Paved Outside Shoulder Width L/R	4.00 / 10.00
Structural Spread Rate	110
Friction Course Spread Rate	80
Total Width (T) / 8" Overlap (O)	Т
Rumble Strips �No. of Sides	0

# Pay Items

Pay item	Description	<b>Quantity Unit</b>	Unit Price Ex	tended Amount
285-704	OPTIONAL BASE,BASE GROUP 04	2,438.25 SY	\$42.51	\$103,650.01
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	128.07 TN	\$188.86	\$24,187.30
337-7-83	ASPH CONC FC,TRAFFIC C,FC- 12.5,PG 76-22	93.14 TN	\$206.53	\$19,236.20
570-1-1	PERFORMANCE TURF	997.92 SY	\$6.88	\$6,865.69

### **Erosion Control**

# Pay Items

Pay item	Description	<b>Quantity Unit</b>	Unit Price E	xtended Amount
104-10-3	SEDIMENT BARRIER	3,442.82 LF	\$3.32	\$11,430.16
104-11	FLOATING TURBIDITY BARRIER	28.35 LF	\$15.96	\$452.47
104-12	STAKED TURBIDITY BARRIER- NYL REINF PVC	28.35 LF	\$19.18	\$543.75

	Shoulder Component Total			\$171,371.86
107-2	MOWING	0.69 AC	\$94.35	\$65.10
107-1	LITTER REMOVAL	0.69 AC	\$57.61	\$39.75
104-18	INLET PROTECTION SYSTEM	1.00 EA	\$192.13	\$192.13
104-15	SOIL TRACKING PREVENTION DEVICE	1.00 EA	\$4,709.30	\$4,709.30

### **DRAINAGE COMPONENT**

Pay Items				
Pay item	Description	<b>Quantity Unit</b>	Unit Price E	xtended Amount
430-174-124	PIPE CULV, OPT MATL, ROUND,24"SD	48.00 LF	\$278.89	\$13,386.72
430-175-136	PIPE CULV, OPT MATL, ROUND, 36"S/CD	24.00 LF	\$310.89	\$7,461.36
430-984-129	MITERED END SECT, OPTIONAL RD, 24" SD	3.00 EA	\$3,624.19	\$10,872.57
570-1-1	PERFORMANCE TURF	114.53 SY	\$6.88	\$787.97
	Drainage Component Total			\$32,508.62

### **SIGNING COMPONENT**

Pay Items				
Pay item	Description	<b>Quantity Unit</b>	Unit Price I	Extended Amount
700-1-111	SINGLE COL GRND SIGN AS, F&I GM, <12 SF	1.00 EA	\$424.18	\$424.18
700-1-112	SINGLE COL GRND SIGN AS, F&I GM, 12-20	6.00 EA	\$1,908.83	\$11,452.98
700-1-500	SINGLE COL GRND SIGN AS, RELOCATE	1.00 EA	\$347.45	\$347.45
700-1-600	SINGLE COL GRND SIGN AS, REMOVE	6.00 EA	\$58.36	\$350.16
700-2-113	MULTI- COLUMN SIGN, F&I GM, 20.1-30 SF	1.00 EA	\$6,727.35	\$6,727.35
700-2-600	MULTI- COLUMN GROUND SIGN, REMOVE	1.00 EA	\$1,238.78	\$1,238.78
	Signing Component Total			\$20,540.90

### LIGHTING COMPONENT

<b>Description</b> Multiplier (Nun	nber of Poles)			<b>Value</b> 10
Pay Items				
Pay item	Description	Quantity Unit	<b>Unit Price</b>	Extended Amount
630-2-11	CONDUIT, F& I, OPEN TRENCH	2,000.00 LF	\$24.85	\$49,700.00
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24"	10.00 EA	\$1,704.63	\$17,046.30
715-1-13	LIGHTING CONDUCTORS, F&I, INSUL, NO.4-2	6,000.00 LF	\$6.55	\$39,300.00
715-61-442	LIGHT POLE CMPLT,STD,F&I, 45'MH,12'ARM L	10.00 EA	\$16,000.00	\$160,000.00
715-500-1	POLE CABLE DIST SYS, CONVENTIONAL	10.00 EA	\$1,175.12	\$11,751.20
	Subcomponent Total			\$277,797.50

Lighting Component Total	\$277,797.50
Sequence 15 Total	\$911,553.07

Sequence: 16 MIS - Miscellaneous Construction Net Length:  $0.000 \, \text{MI} \\ 0 \, \text{LF}$ 

**Description:** Landscaping

LANDSCAPING COMPONENT

**User Input Data** 

 Description
 Value

 Lump Sum
 1,262,002.00

 Cost %
 0.00

 Component Detail
 N

**Landscaping Component Total** 

\$1,262,002.00

**Sequence 16 Total** \$1,262,002.00

0.000 MI Sequence: 17 MIS - Miscellaneous Construction Net Length: 0 LF

Description: ITS

**MISCELLANEOUS COMPONENT** 

**EX-Items** 

Pay item Description **Quantity Unit Unit Price Extended Amount** 

ITS ITS, MOC, 4% OF SUBTOTAL 1.00 1 \$504,800.00 \$504,800.00

> **Miscellaneous Component Total** \$504,800.00

\$504,800.00 Sequence 17 Total

Sequence: 18 MIS - Miscellaneous Construction Net Length:  $0.000 \text{ MI} \\ 0 \text{ LF}$ 

Description: 25% unknown

**MISCELLANEOUS COMPONENT** 

**EX-Items** 

Pay itemDescriptionQuantity UnitUnit PriceExtended Amount25% UNKNOWN FOR INFLATION1.00 1\$3,694,809.00\$3,694,809.00

Miscellaneous Component Total \$3,694,809.00

**Sequence 18 Total** \$3,694,809.00

Date: 2/12/2025 9:30:21 AM

# FDOT Long Range Estimating System - Production R3: Project Details by Sequence Report

**Project**: 448068-1-22-01 **Letting Date**: 01/2099

Description: PD&E WIDEN SUNCOAST PKWY(SR589) - S OF VAN DYKE RD TO SR52 (MP13-29)

District: 08 County: 97 TURNPIKE Market Area: 99 Units: English

Contract Class: 3 Lump Sum Project: N Design/Build: N Project Length: 15.979 MI

Project Manager: SHARMA

Version 14 Project Grand Total \$25,123,436.22

Description: SR 52

Sequence: 2 WUR - Widen/Resurface, Undivided, Rural

Net Length: 0.374 MI 1,976 LF

Description: Ramp A - SB on two lane section

### **EARTHWORK COMPONENT**

Hear	Input	Data
user	Input	Data

ood input butu	
Description	Value
Standard Clearing and Grubbing Limits L/R	20.00 / 20.00
Incidental Clearing and Grubbing Area	0.00
Alignment Number	1
Distance	0.374
Top of Structural Course For Begin Section	102.00
Top of Structural Course For End Section	102.00
Horizontal Elevation For Begin Section	100.00
Horizontal Elevation For End Section	100.00
Existing Front Slope L/R	6 to 1 / 6 to 1
Existing Outside Shoulder Cross Slope L/R	6.00 % / 6.00 %
Front Slope L/R	6 to 1 / 6 to 1
Outside Shoulder Cross Slope L/R	6.00 % / 6.00 %
Roadway Cross Slope L/R	2.00 % / 2.00 %

### Pay Items

Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
110-1-1	CLEARING & GRUBBING	1.81 AC	\$61,068.42	\$110,533.84
120-2-2	BORROW EXCAVATION, TRUCK MEASURE	400.06 CY	\$53.86	\$21,547.23
	Earthwork Component Total			\$132,081.07

# **ROADWAY COMPONENT**

### **User Input Data**

Description	Value
Number of Lanes	2
Existing Roadway Pavement Width L/R	7.50 / 7.50
Structural Spread Rate	165
Friction Course Spread Rate	80
Widened Outside Pavement Width L/R	0.00 / 9.00
Widened Structural Spread Rate	275
Widened Friction Course Spread Rate	165

Pay Items	Pay Ite	ems
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Pay item	Description	<b>Quantity Unit</b>	Unit Price	Extended Amount
160-4	TYPE B STABILIZATION	6,366.39 SY	\$21.48	\$136,750.06
285-709	OPTIONAL BASE,BASE GROUP 09	2,048.22 SY	\$58.67	\$120,169.07
327-70-5	MILLING EXIST ASPH PAVT, 2" AVG DEPTH	3,292.96 SY	\$7.52	\$24,763.06
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	271.67 TN	\$188.86	\$51,307.60
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	271.67 TN	\$188.86	\$51,307.60
337-7-83	ASPH CONC FC,TRAFFIC C,FC- 12.5,PG 76-22	131.72 TN	\$206.53	\$27,204.13
337-7-83	ASPH CONC FC,TRAFFIC C,FC- 12.5,PG 76-22	163.00 TN	\$206.53	\$33,664.39

# **Pavement Marking Subcomponent**

Description	Value
Include Thermo/Tape/Other	N
Pavement Type	Asphalt
Solid Stripe No. of Paint Applications	2
Solid Stripe No. of Stripes	2
Skip Stripe No. of Paint Applications	2
Skip Stripe No. of Stripes	1

# Pay Items

Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
706-1-3	RAISED PAVMT MARK, TYPE B	51.00 EA	\$4.96	\$252.96
710-11-101	PAINTED PAVT MARK,STD,WHITE,SOLID,6"	1.50 GM	\$1,448.71	\$2,173.06
710-11-231	PAINTED PAVT MARK.STD.YELLOW.SKIP.6"	0.75 GM	\$820.00	\$615.00

# **Peripherals Subcomponent**

Description	Value
Off Road Bike Path(s)	0
Off Road Bike Path Width L/R	0.00 / 0.00
Bike Path Structural Spread Rate	0
Noise Barrier Wall Length	0.00
Noise Barrier Wall Begin Height	0.00
Noise Barrier Wall End Height	0.00

Roadway Component Total

\$448,206.94

### SHOULDER COMPONENT

# **User Input Data**

Description	Value
Existing Total Outside Shoulder Width L/R	6.00 / 6.00
New Total Outside Shoulder Width L/R	8.00 / 12.00
Total Outside Shoulder Perf. Turf Width L/R	4.00 / 2.00
Existing Paved Outside Shoulder Width L/R	0.00 / 0.00
New Paved Outside Shoulder Width L/R	4.00 / 10.00
Structural Spread Rate	110
Friction Course Spread Rate	80
Total Width (T) / 8" Overlap (O)	T
Rumble Strips �No. of Sides	0

Pay Items				
Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
285-704	OPTIONAL BASE,BASE GROUP 04	3,218.32 SY	\$42.51	\$136,810.78
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	169.04 TN	\$188.86	\$31,924.89
337-7-83	ASPH CONC FC,TRAFFIC C,FC- 12.5,PG 76-22	122.94 TN	\$206.53	\$25,390.80
570-1-1	PERFORMANCE TURF	1,317.18 SY	\$6.88	\$9,062.20
<b>Erosion Contro</b>	I			
Pay Items				
Pay item	Description	<b>Quantity Unit</b>	Unit Price	Extended Amount
104-10-3	SEDIMENT BARRIER	4,544.28 LF	\$3.32	\$15,087.01
104-11	FLOATING TURBIDITY BARRIER	37.42 LF	\$15.96	\$597.22
104-12	STAKED TURBIDITY BARRIER- NYL REINF PVC	37.42 LF	\$19.18	\$717.72
104-15	SOIL TRACKING PREVENTION DEVICE	1.00 EA	\$4,709.30	\$4,709.30
104-18	INLET PROTECTION SYSTEM	1.00 EA	\$192.13	\$192.13
107-1	LITTER REMOVAL	0.91 AC	\$57.63	\$52.44
107-2	MOWING	0.91 AC	\$88.49	\$80.53
	Shoulder Component Total			\$224,625.02

### **DRAINAGE COMPONENT**

Pay Items				
Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
430-174-124	PIPE CULV, OPT MATL, ROUND,24"SD	64.00 LF	\$278.89	\$17,848.96
430-175-136	PIPE CULV, OPT MATL, ROUND, 36"S/CD	24.00 LF	\$310.89	\$7,461.36
430-984-129	MITERED END SECT, OPTIONAL RD, 24" SD	4.00 EA	\$3,624.19	\$14,496.76
570-1-1	PERFORMANCE TURF	151.18 SY	\$6.88	\$1,040.12
	Drainage Component Total			\$40,847.20

### **SIGNING COMPONENT**

Pay Items				
Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
700-1-111	SINGLE COL GRND SIGN AS, F&I GM, <12 SF	1.00 EA	\$533.45	\$533.45
700-1-112	SINGLE COL GRND SIGN AS, F&I GM, 12-20	8.00 EA	\$1,918.21	\$15,345.68
700-1-500	SINGLE COL GRND SIGN AS, RELOCATE	1.00 EA	\$348.10	\$348.10
700-1-600	SINGLE COL GRND SIGN AS, REMOVE	8.00 EA	\$58.36	\$466.88
700-2-113	MULTI- COLUMN SIGN, F&I GM, 20.1-30 SF	1.00 EA	\$6,727.35	\$6,727.35
700-2-600	MULTI- COLUMN GROUND SIGN, REMOVE	1.00 EA	\$1,238.78	\$1,238.78
	Signing Component Total			\$24,660.24

# LIGHTING COMPONENT

Description Multiplier (Num	nber of Poles)			<b>Value</b> 8
Pay Items	Decembris	0	Unit Dai	Fretzinale al Ausessina
Pay item	Description	Quantity Unit		Extended Amount
630-2-11	CONDUIT, F& I, OPEN TRENCH	1,600.00 LF	\$24.85	\$39,760.00
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24"	8.00 EA	\$1,708.32	\$13,666.56
715-1-13	LIGHTING CONDUCTORS, F&I, INSUL, NO.4-2	4,800.00 LF	\$6.55	\$31,440.00
715-61-442	LIGHT POLE CMPLT,STD,F&I, 45'MH,12'ARM L	8.00 EA	\$16,000.00	\$128,000.00
715-500-1	POLE CABLE DIST SYS, CONVENTIONAL	8.00 EA	\$1,175.12	\$9,400.96
	Subcomponent Total			\$222,267.52
	Lighting Component Total			\$222,267.52
Sequence 2 T	- Total			\$1,092,687.99

Sequence: 5 WUR - Widen/Resurface, Undivided, Rural

Net Length: 0.210 MI 1,110 LF

Description: Ramp B - NB off two lane section

### **EARTHWORK COMPONENT**

### **User Input Data**

<b>Description</b> Standard Clearing and Grubbing Limits L/R	<b>Value</b> 30.00 / 30.00
Incidental Clearing and Grubbing Area	0.00
Alignment Number	1
Distance	0.210
Top of Structural Course For Begin Section	102.00
Top of Structural Course For End Section	102.00
Horizontal Elevation For Begin Section	100.00
Horizontal Elevation For End Section	100.00
Existing Front Slope L/R	6 to 1 / 6 to 1
Existing Outside Shoulder Cross Slope L/R	6.00 % / 6.00 %
Front Slope L/R	6 to 1 / 6 to 1
Outside Shoulder Cross Slope L/R	6.00 % / 6.00 %
Roadway Cross Slope L/R	2.00 % / 2.00 %

### Pay Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
110-1-1	CLEARING & GRUBBING	1.53 AC	\$61,068.42	\$93,434.68
120-2-2	BORROW EXCAVATION, TRUCK MEASURE	224.63 CY	\$53.86	\$12,098.57
	Earthwork Component Total			\$105,533.25

# **ROADWAY COMPONENT**

### **User Input Data**

Description	Value
Number of Lanes	2
Existing Roadway Pavement Width L/R	7.50 / 7.50
Structural Spread Rate	165
Friction Course Spread Rate	80
Widened Outside Pavement Width L/R	0.00 / 9.00
Widened Structural Spread Rate	275
Widened Friction Course Spread Rate	165

# Pay Items

Pay item	Description	<b>Quantity Unit</b>	Unit Price Ex	tended Amount
160-4	TYPE B STABILIZATION	3,576.20 SY	\$21.48	\$76,816.78
285-709	OPTIONAL BASE,BASE GROUP 09	1,150.55 SY	\$58.67	\$67,502.77
327-70-5	MILLING EXIST ASPH PAVT, 2" AVG DEPTH	1,849.76 SY	\$7.52	\$13,910.20
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	152.61 TN	\$188.86	\$28,821.92
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	152.61 TN	\$188.86	\$28,821.92
337-7-83	ASPH CONC FC,TRAFFIC C,FC- 12.5,PG 76-22	73.99 TN	\$206.53	\$15,281.15
337-7-83	ASPH CONC FC,TRAFFIC C,FC- 12.5,PG 76-22	91.56 TN	\$206.53	\$18,909.89

### **Pavement Marking Subcomponent**

Description	Value
Include Thermo/Tape/Other	N
Pavement Type	Asphalt
Solid Stripe No. of Paint Applications	2
Solid Stripe No. of Stripes	2
Skip Stripe No. of Paint Applications	2
Skip Stripe No. of Stripes	1

# Pay Items

Pay item	Description	<b>Quantity Unit</b>	Unit Price I	Extended Amount
706-1-3	RAISED PAVMT MARK, TYPE B	28.00 EA	\$4.96	\$138.88
710-11-101	PAINTED PAVT MARK,STD,WHITE,SOLID,6"	0.84 GM	\$1,448.71	\$1,216.92
710-11-231	PAINTED PAVT MARK,STD,YELLOW,SKIP,6"	0.42 GM	\$820.00	\$344.40
	Roadway Component Total			\$251,764.83

#### SHOULDER COMPONENT

# **User Input Data**

Description	Value
Existing Total Outside Shoulder Width L/R	6.00 / 6.00
New Total Outside Shoulder Width L/R	8.00 / 12.00
Total Outside Shoulder Perf. Turf Width L/R	4.00 / 2.00
Existing Paved Outside Shoulder Width L/R	0.00 / 0.00
New Paved Outside Shoulder Width L/R	4.00 / 10.00
Structural Spread Rate	110
Friction Course Spread Rate	80
Total Width (T) / 8" Overlap (O)	Т
Rumble Strips �No. of Sides	0

# Pay Items

Pay item	Description	<b>Quantity Unit</b>	Unit Price Ext	ended Amount
285-704	OPTIONAL BASE, BASE GROUP 04	1,807.83 SY	\$42.51	\$76,850.85
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	94.95 TN	\$188.86	\$17,932.26
337-7-83	ASPH CONC FC,TRAFFIC C,FC- 12.5,PG 76-22	69.06 TN	\$206.53	\$14,262.96
570-1-1	PERFORMANCE TURF	739.90 SY	\$6.88	\$5,090.51

## **Erosion Control**

### Pay Items

,				
Pay item	Description	<b>Quantity Unit</b>	Unit Price E	xtended Amount
104-10-3	SEDIMENT BARRIER	2,552.67 LF	\$3.32	\$8,474.86
104-11	FLOATING TURBIDITY BARRIER	21.02 LF	\$15.96	\$335.48
104-12	STAKED TURBIDITY BARRIER- NYL REINF PVC	21.02 LF	\$19.18	\$403.16
104-15	SOIL TRACKING PREVENTION DEVICE	1.00 EA	\$4,709.30	\$4,709.30
104-18	INLET PROTECTION SYSTEM	1.00 EA	\$192.13	\$192.13
107-1	LITTER REMOVAL	0.51 AC	\$57.63	\$29.39
107-2	MOWING	0.51 AC	\$88.49	\$45.13
	Shoulder Component Total			\$128,326.03

## **DRAINAGE COMPONENT**

Pay Items				
Pay item	Description	<b>Quantity Unit</b>	Unit Price E	xtended Amount
430-174-124	PIPE CULV, OPT MATL, ROUND,24"SD	32.00 LF	\$278.89	\$8,924.48
430-175-136	PIPE CULV, OPT MATL, ROUND, 36"S/CD	16.00 LF	\$310.89	\$4,974.24
430-984-129	MITERED END SECT, OPTIONAL RD, 24" SD	3.00 EA	\$3,624.19	\$10,872.57
570-1-1	PERFORMANCE TURF	84.92 SY	\$6.88	\$584.25
	Drainage Component Total			\$25,355.54

## **SIGNING COMPONENT**

Pay Items				
Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	Extended Amount
700-1-111	SINGLE COL GRND SIGN AS, F&I GM, <12 SF	1.00 EA	\$533.45	\$533.45
700-1-112	SINGLE COL GRND SIGN AS, F&I GM, 12-20	5.00 EA	\$1,918.21	\$9,591.05
700-1-500	SINGLE COL GRND SIGN AS, RELOCATE	1.00 EA	\$348.10	\$348.10
700-1-600	SINGLE COL GRND SIGN AS, REMOVE	5.00 EA	\$58.36	\$291.80
700-2-113	MULTI- COLUMN SIGN, F&I GM, 20.1-30 SF	1.00 EA	\$6,727.35	\$6,727.35
700-2-600	MULTI- COLUMN GROUND SIGN, REMOVE	1.00 EA	\$1,238.78	\$1,238.78
	Signing Component Total			\$18,730.53

## LIGHTING COMPONENT

Rural Lighting	g Subcomponent			
Description				Value
Multiplier (Nun	nber of Poles)			4
Pay Items				
Pay item	Description	Quantity Unit	<b>Unit Price</b>	<b>Extended Amount</b>
630-2-11	CONDUIT, F& I, OPEN TRENCH	800.00 LF	\$24.85	\$19,880.00
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24"	4.00 EA	\$1,708.32	\$6,833.28
715-1-13	LIGHTING CONDUCTORS, F&I, INSUL, NO.4-2	2,400.00 LF	\$6.55	\$15,720.00
715-61-442	LIGHT POLE CMPLT,STD,F&I, 45'MH,12'ARM L	4.00 EA	\$16,000.00	\$64,000.00
715-500-1	POLE CABLE DIST SYS, CONVENTIONAL	4.00 EA	\$1,175.12	\$4,700.48
	Subcomponent Total			\$111,133.76
	Lighting Component Total			\$111,133.76

Sequence 5 Total

\$640,843.94

Sequence: 6 WUR - Widen/Resurface, Undivided, Rural

Net Length:

0.081 MI
428 LF

Description: Ramp B - NB off four lane section

#### **EARTHWORK COMPONENT**

#### **User Input Data**

Description	Value
Standard Clearing and Grubbing Limits L/R	40.00 / 40.00
Incidental Clearing and Grubbing Area	0.00
Alignment Number	1
Distance	0.081
Top of Structural Course For Begin Section	102.00
Top of Structural Course For End Section	102.00
Horizontal Elevation For Begin Section	100.00
Horizontal Elevation For End Section	100.00
Existing Front Slope L/R	6 to 1 / 6 to 1
Existing Outside Shoulder Cross Slope L/R	6.00 % / 6.00 %
Front Slope L/R	6 to 1 / 6 to 1
Outside Shoulder Cross Slope L/R	6.00 % / 6.00 %
Roadway Cross Slope L/R	2.00 % / 2.00 %

## Pay Items

Pay item	Description	<b>Quantity Unit</b>	Unit Price	Extended Amount
110-1-1	CLEARING & GRUBBING	0.79 AC	\$61,068.42	\$48,244.05
120-2-2	BORROW EXCAVATION, TRUCK MEASURE	195.94 CY	\$53.86	\$10,553.33
	Earthwork Component Total			\$58,797.38

# **ROADWAY COMPONENT**

#### **User Input Data**

Description	Value
Number of Lanes	4
Existing Roadway Pavement Width L/R	12.00 / 12.00
Structural Spread Rate	165
Friction Course Spread Rate	80
Widened Outside Pavement Width L/R	12.00 / 12.00
Widened Structural Spread Rate	275
Widened Friction Course Spread Rate	165

## Pay Items

Pay item	Description	<b>Quantity Unit</b>	Unit Price E	xtended Amount
160-4	TYPE B STABILIZATION	2,093.46 SY	\$21.48	\$44,967.52
285-709	OPTIONAL BASE,BASE GROUP 09	1,173.29 SY	\$58.67	\$68,836.92
327-70-5	MILLING EXIST ASPH PAVT, 2" AVG DEPTH	1,141.89 SY	\$7.52	\$8,587.01
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	94.21 TN	\$188.86	\$17,792.50
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	157.01 TN	\$188.86	\$29,652.91
337-7-83	ASPH CONC FC,TRAFFIC C,FC- 12.5,PG 76-22	45.68 TN	\$206.53	\$9,434.29
337-7-83	ASPH CONC FC,TRAFFIC C,FC- 12.5,PG 76-22	94.21 TN	\$206.53	\$19,457.19

## **Pavement Marking Subcomponent**

Description	Value
Include Thermo/Tape/Other	N
Pavement Type	Asphalt
Solid Stripe No. of Paint Applications	2
Solid Stripe No. of Stripes	2
Skip Stripe No. of Paint Applications	2
Skip Stripe No. of Stripes	3

# Pay Items

Pay item	Description	<b>Quantity Unit</b>	Unit Price Ex	xtended Amount
706-1-3	RAISED PAVMT MARK, TYPE B	55.00 EA	\$4.96	\$272.80
710-11-101	PAINTED PAVT MARK,STD,WHITE,SOLID,6"	0.32 GM	\$1,448.71	\$463.59
710-11-231	PAINTED PAVT MARK,STD,YELLOW,SKIP,6"	0.49 GM	\$820.00	\$401.80

# **Peripherals Subcomponent**

Description	Value
Off Road Bike Path(s)	0
Off Road Bike Path Width L/R	0.00 / 0.00
Bike Path Structural Spread Rate	0
Noise Barrier Wall Length	0.00
Noise Barrier Wall Begin Height	0.00
Noise Barrier Wall End Height	0.00

## Roadway Component Total

## SHOULDER COMPONENT

# **User Input Data**

Description	Value
Existing Total Outside Shoulder Width L/R	6.00 / 6.00
New Total Outside Shoulder Width L/R	8.00 / 12.00
Total Outside Shoulder Perf. Turf Width L/R	4.00 / 2.00
Existing Paved Outside Shoulder Width L/R	0.00 / 0.00
New Paved Outside Shoulder Width L/R	4.00 / 10.00
Structural Spread Rate	110
Friction Course Spread Rate	80
Total Width (T) / 8" Overlap (O)	Т
Rumble Strips �No. of Sides	0

# Pay Items

Pay item	Description	<b>Quantity Unit</b>	Unit Price Ex	tended Amount
285-704	OPTIONAL BASE,BASE GROUP 04	697.50 SY	\$42.51	\$29,650.72
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	36.64 TN	\$188.86	\$6,919.83
337-7-83	ASPH CONC FC,TRAFFIC C,FC- 12.5,PG 76-22	26.64 TN	\$206.53	\$5,501.96
570-1-1	PERFORMANCE TURF	285.47 SY	\$6.88	\$1,964.03

## **Erosion Control**

# Pay Items

Pay item	Description	<b>Quantity Unit</b>	Unit Price Ex	tended Amount
104-10-3	SEDIMENT BARRIER	984.88 LF	\$3.32	\$3,269.80
104-11	FLOATING TURBIDITY BARRIER	8.11 LF	\$15.96	\$129.44
104-12	STAKED TURBIDITY BARRIER- NYL REINF PVC	8.11 LF	\$19.18	\$155.55

\$199,866.53

104-15	SOIL TRACKING PREVENTION DEVICE	1.00 EA	\$4,709.30	\$4,709.30
104-18	INLET PROTECTION SYSTEM	1.00 EA	\$192.13	\$192.13
107-1	LITTER REMOVAL	0.20 AC	\$57.63	\$11.53
107-2	MOWING	0.20 AC	\$88.49	\$17.70
	Shoulder Component Total			\$52,522.00

## **DRAINAGE COMPONENT**

Pay Items				
Pay item	Description	<b>Quantity Unit</b>	Unit Price E	xtended Amount
430-174-124	PIPE CULV, OPT MATL, ROUND,24"SD	16.00 LF	\$278.89	\$4,462.24
430-175-136	PIPE CULV, OPT MATL, ROUND, 36"S/CD	8.00 LF	\$310.89	\$2,487.12
430-984-129	MITERED END SECT, OPTIONAL RD, 24" SD	1.00 EA	\$3,624.19	\$3,624.19
570-1-1	PERFORMANCE TURF	32.76 SY	\$6.88	\$225.39
	Drainage Component Total			\$10,798.94

#### **SIGNING COMPONENT**

Pay Items				
Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	Extended Amount
700-1-111	SINGLE COL GRND SIGN AS, F&I GM, <12 SF	1.00 EA	\$533.45	\$533.45
700-1-112	SINGLE COL GRND SIGN AS, F&I GM, 12-20	2.00 EA	\$1,918.21	\$3,836.42
700-1-500	SINGLE COL GRND SIGN AS, RELOCATE	1.00 EA	\$348.10	\$348.10
700-1-600	SINGLE COL GRND SIGN AS, REMOVE	2.00 EA	\$58.36	\$116.72
700-2-113	MULTI- COLUMN SIGN, F&I GM, 20.1-30 SF	1.00 EA	\$6,727.35	\$6,727.35
700-2-600	MULTI- COLUMN GROUND SIGN, REMOVE	1.00 EA	\$1,238.78	\$1,238.78
	Signing Component Total			\$12,800.82

## LIGHTING COMPONENT

<b>Description</b> Multiplier (Num	nber of Poles)			<b>Value</b> 2
Pay Items				
Pay item	Description	Quantity Unit	Unit Price	Extended Amount
630-2-11	CONDUIT, F& I, OPEN TRENCH	400.00 LF	\$24.85	\$9,940.00
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24"	2.00 EA	\$1,708.32	\$3,416.64
715-1-13	LIGHTING CONDUCTORS, F&I, INSUL, NO.4-2	1,200.00 LF	\$6.55	\$7,860.00
715-61-442	LIGHT POLE CMPLT,STD,F&I, 45'MH,12'ARM L	2.00 EA	\$16,000.00	\$32,000.00
715-500-1	POLE CABLE DIST SYS, CONVENTIONAL	2.00 EA	\$1,175.12	\$2,350.24

**Subcomponent Total** 

\$55,566.88

Lighting Component Total	\$55,566.88
Sequence 6 Total	\$390,352.55

Sequence: 7 WUR - Widen/Resurface, Undivided, Rural

Net Length: 0.371 MI 1,956 LF

Description: Ramp C - NB on two lane section

#### **EARTHWORK COMPONENT**

## **User Input Data**

Description	Value
Standard Clearing and Grubbing Limits L/R	30.00 / 30.00
Incidental Clearing and Grubbing Area	0.00
Alignment Number	1
Distance	0.370
Top of Structural Course For Begin Section	102.00
Top of Structural Course For End Section	102.00
Horizontal Elevation For Begin Section	100.00
Horizontal Elevation For End Section	100.00
Existing Front Slope L/R	6 to 1 / 6 to 1
Existing Outside Shoulder Cross Slope L/R	6.00 % / 6.00 %
Front Slope L/R	6 to 1 / 6 to 1
Outside Shoulder Cross Slope L/R	6.00 % / 6.00 %
Roadway Cross Slope L/R	2.00 % / 2.00 %

## Pay Items

Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
110-1-1	CLEARING & GRUBBING	2.69 AC	\$61,068.42	\$164,274.05
120-2-2	BORROW EXCAVATION, TRUCK MEASURE	395.78 CY	\$53.86	\$21,316.71
	Earthwork Component Total			\$185,590.76

# **ROADWAY COMPONENT**

#### **User Input Data**

Description	Value
Number of Lanes	2
Existing Roadway Pavement Width L/R	7.50 / 7.50
Structural Spread Rate	165
Friction Course Spread Rate	80
Widened Outside Pavement Width L/R	0.00 / 9.00
Widened Structural Spread Rate	275
Widened Friction Course Spread Rate	165

# Pay Items

Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
160-4	TYPE B STABILIZATION	6,303.44 SY	\$21.48	\$135,397.89
285-709	OPTIONAL BASE,BASE GROUP 09	2,027.97 SY	\$58.67	\$118,981.00
327-70-5	MILLING EXIST ASPH PAVT, 2" AVG DEPTH	3,260.40 SY	\$7.52	\$24,518.21
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	268.98 TN	\$188.86	\$50,799.56
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	268.98 TN	\$188.86	\$50,799.56
337-7-83	ASPH CONC FC,TRAFFIC C,FC- 12.5,PG 76-22	130.42 TN	\$206.53	\$26,935.64
337-7-83	ASPH CONC FC,TRAFFIC C,FC- 12.5,PG 76-22	161.39 TN	\$206.53	\$33,331.88

## **Pavement Marking Subcomponent**

Description	Value
Include Thermo/Tape/Other	N
Pavement Type	Asphalt
Solid Stripe No. of Paint Applications	2
Solid Stripe No. of Stripes	2
Skip Stripe No. of Paint Applications	2
Skip Stripe No. of Stripes	1

# Pay Items

Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	Extended Amount
706-1-3	RAISED PAVMT MARK, TYPE B	50.00 EA	\$4.96	\$248.00
710-11-101	PAINTED PAVT MARK,STD,WHITE,SOLID,6"	1.48 GM	\$1,448.71	\$2,144.09
710-11-231	PAINTED PAVT MARK,STD,YELLOW,SKIP,6"	0.74 GM	\$820.00	\$606.80

# **Peripherals Subcomponent**

Description	Value
Off Road Bike Path(s)	0
Off Road Bike Path Width L/R	0.00 / 0.00
Bike Path Structural Spread Rate	0
Noise Barrier Wall Length	0.00
Noise Barrier Wall Begin Height	0.00
Noise Barrier Wall End Height	0.00

# Roadway Component Total \$443,762.63

#### SHOULDER COMPONENT

# **User Input Data**

Description	Value
Existing Total Outside Shoulder Width L/R	6.00 / 6.00
New Total Outside Shoulder Width L/R	8.00 / 12.00
Total Outside Shoulder Perf. Turf Width L/R	4.00 / 2.00
Existing Paved Outside Shoulder Width L/R	0.00 / 0.00
New Paved Outside Shoulder Width L/R	4.00 / 10.00
Structural Spread Rate	110
Friction Course Spread Rate	80
Total Width (T) / 8" Overlap (O)	Т
Rumble Strips �No. of Sides	0

# Pay Items

Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
285-704	OPTIONAL BASE,BASE GROUP 04	3,186.50 SY	\$42.51	\$135,458.12
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	167.37 TN	\$188.86	\$31,609.50
337-7-83	ASPH CONC FC,TRAFFIC C,FC- 12.5,PG 76-22	121.72 TN	\$206.53	\$25,138.83
570-1-1	PERFORMANCE TURF	1,304.16 SY	\$6.88	\$8,972.62

## **Erosion Control**

# Pay Items

Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
104-10-3	SEDIMENT BARRIER	4,499.35 LF	\$3.32	\$14,937.84
104-11	FLOATING TURBIDITY BARRIER	37.05 LF	\$15.96	\$591.32
104-12	STAKED TURBIDITY BARRIER- NYL REINF PVC	37.05 LF	\$19.18	\$710.62

	Shoulder Component Total			\$222,451.79
107-2	MOWING	0.90 AC	\$88.49	\$79.64
107-1	LITTER REMOVAL	0.90 AC	\$57.63	\$51.87
104-18	INLET PROTECTION SYSTEM	1.00 EA	\$192.13	\$192.13
104-15	SOIL TRACKING PREVENTION DEVICE	1.00 EA	\$4,709.30	\$4,709.30

## **DRAINAGE COMPONENT**

Pay Items				
Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
430-174-124	PIPE CULV, OPT MATL, ROUND,24"SD	56.00 LF	\$278.89	\$15,617.84
430-175-136	PIPE CULV, OPT MATL, ROUND, 36"S/CD	24.00 LF	\$310.89	\$7,461.36
430-984-129	MITERED END SECT, OPTIONAL RD, 24" SD	4.00 EA	\$3,624.19	\$14,496.76
570-1-1	PERFORMANCE TURF	149.68 SY	\$6.88	\$1,029.80
	Drainage Component Total			\$38,605.76

#### **SIGNING COMPONENT**

Pay Items				
Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
700-1-111	SINGLE COL GRND SIGN AS, F&I GM, <12 SF	1.00 EA	\$533.45	\$533.45
700-1-112	SINGLE COL GRND SIGN AS, F&I GM, 12-20	8.00 EA	\$1,918.21	\$15,345.68
700-1-500	SINGLE COL GRND SIGN AS, RELOCATE	1.00 EA	\$348.10	\$348.10
700-1-600	SINGLE COL GRND SIGN AS, REMOVE	8.00 EA	\$58.36	\$466.88
700-2-113	MULTI- COLUMN SIGN, F&I GM, 20.1-30 SF	1.00 EA	\$6,727.35	\$6,727.35
700-2-600	MULTI- COLUMN GROUND SIGN, REMOVE	1.00 EA	\$1,238.78	\$1,238.78
	Signing Component Total			\$24,660.24

## LIGHTING COMPONENT

<b>Description</b> Multiplier (Nun	nber of Poles)			<b>Value</b> 8
Pay Items				
Pay item	Description	Quantity Unit	<b>Unit Price</b>	Extended Amount
630-2-11	CONDUIT, F& I, OPEN TRENCH	1,600.00 LF	\$24.85	\$39,760.00
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24"	8.00 EA	\$1,708.32	\$13,666.56
715-1-13	LIGHTING CONDUCTORS, F&I, INSUL, NO.4-2	4,800.00 LF	\$6.55	\$31,440.00
715-61-442	LIGHT POLE CMPLT,STD,F&I, 45'MH,12'ARM L	8.00 EA	\$16,000.00	\$128,000.00
715-500-1	POLE CABLE DIST SYS, CONVENTIONAL	8.00 EA	\$1,175.12	\$9,400.96
	Subcomponent Total			\$222,267.52

Lighting Component Total	\$222,267.52
Sequence 7 Total	\$1,137,338.70

Sequence: 9 WUR - Widen/Resurface, Undivided, Rural

Net Length:

0.243 MI
1,285 LF

Description: Ramp D - SB off one lane section

#### **EARTHWORK COMPONENT**

#### **User Input Data**

<b>Description</b> Standard Clearing and Grubbing Limits L/R	<b>Value</b> 15.00 / 15.00
Incidental Clearing and Grubbing Area	0.00
Alignment Number	1
Distance	0.243
Top of Structural Course For Begin Section	102.00
Top of Structural Course For End Section	102.00
Horizontal Elevation For Begin Section	100.00
Horizontal Elevation For End Section	100.00
Existing Front Slope L/R	6 to 1 / 6 to 1
Existing Outside Shoulder Cross Slope L/R	6.00 % / 6.00 %
Front Slope L/R	6 to 1 / 6 to 1
Outside Shoulder Cross Slope L/R	6.00 % / 6.00 %
Roadway Cross Slope L/R	2.00 % / 2.00 %

#### Pay Items

Pay item	Description	<b>Quantity Unit</b>	Unit Price E	xtended Amount
110-1-1	CLEARING & GRUBBING	0.88 AC	\$61,068.42	\$53,740.21
	Earthwork Component Total			\$53,740.21

## **ROADWAY COMPONENT**

## **User Input Data**

Description	Value
Number of Lanes	1
Existing Roadway Pavement Width L/R	7.50 / 7.50
Structural Spread Rate	165
Friction Course Spread Rate	80
Widened Outside Pavement Width L/R	0.00 / 0.00
Widened Structural Spread Rate	275
Widened Friction Course Spread Rate	165

## Pay Items

Pay item	Description	<b>Quantity Unit</b>	Unit Price Ex	tended Amount
327-70-5	MILLING EXIST ASPH PAVT, 2" AVG DEPTH	2,141.92 SY	\$7.52	\$16,107.24
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	176.71 TN	\$188.86	\$33,373.45
337-7-83	ASPH CONC FC,TRAFFIC C,FC-	85.68 TN	\$206.53	\$17,695.49

## **Pavement Marking Subcomponent**

Description	Value
Include Thermo/Tape/Other	N
Pavement Type	Asphalt
Solid Stripe No. of Paint Applications	2
Solid Stripe No. of Stripes	2
Skip Stripe No. of Paint Applications	2
Skip Stripe No. of Stripes	0

Pay Items
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Pay item	Description	Quantity Unit	Unit Price E	Extended Amount
710-11-101	PAINTED PAVT MARK.STD.WHITE.SOLID.6"	0.97 GM	\$1,448.71	\$1,405.25

# **Peripherals Subcomponent**

Description	Value
Off Road Bike Path(s)	0
Off Road Bike Path Width L/R	0.00 / 0.00
Bike Path Structural Spread Rate	0
Noise Barrier Wall Length	0.00
Noise Barrier Wall Begin Height	0.00
Noise Barrier Wall End Height	0.00

Roadway Component Total \$68,581.43

## SHOULDER COMPONENT

# **User Input Data**

Description	Value
Existing Total Outside Shoulder Width L/R	6.00 / 6.00
New Total Outside Shoulder Width L/R	6.00 / 6.00
Total Outside Shoulder Perf. Turf Width L/R	4.00 / 2.00
Existing Paved Outside Shoulder Width L/R	0.00 / 0.00
New Paved Outside Shoulder Width L/R	2.00 / 4.00
Structural Spread Rate	110
Friction Course Spread Rate	80
Total Width (T) / 8" Overlap (O)	Т
Rumble Strips �No. of Sides	0

## Pay Items

Pay item	Description	<b>Quantity Unit</b>	Unit Price Ex	tended Amount
285-704	OPTIONAL BASE, BASE GROUP 04	951.01 SY	\$42.51	\$40,427.44
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	47.12 TN	\$188.86	\$8,899.08
337-7-83	ASPH CONC FC,TRAFFIC C,FC- 12.5,PG 76-22	34.27 TN	\$206.53	\$7,077.78
570-1-1	PERFORMANCE TURF	856.77 SY	\$6.88	\$5,894.58

# **Erosion Control**

# Pay Items

Pay item	Description	<b>Quantity Unit</b>	Unit Price Ext	ended Amount
104-10-3	SEDIMENT BARRIER	2,955.85 LF	\$3.32	\$9,813.42
104-11	FLOATING TURBIDITY BARRIER	24.34 LF	\$15.96	\$388.47
104-12	STAKED TURBIDITY BARRIER- NYL REINF PVC	24.34 LF	\$19.18	\$466.84
104-15	SOIL TRACKING PREVENTION DEVICE	1.00 EA	\$4,709.30	\$4,709.30
104-18	INLET PROTECTION SYSTEM	1.00 EA	\$192.13	\$192.13
107-1	LITTER REMOVAL	0.59 AC	\$57.63	\$34.00
107-2	MOWING	0.59 AC	\$88.49	\$52.21
	Shoulder Component Total			\$77,955.25

## **DRAINAGE COMPONENT**

Pay item	Description	<b>Quantity Unit</b>	Unit Price E	xtended Amount
430-174-124	PIPE CULV, OPT MATL, ROUND,24"SD	40.00 LF	\$278.89	\$11,155.60
430-175-136	PIPE CULV, OPT MATL, ROUND, 36"S/CD	16.00 LF	\$310.89	\$4,974.24
430-984-129	MITERED END SECT, OPTIONAL RD, 24" SD	3.00 EA	\$3,624.19	\$10,872.57
570-1-1	PERFORMANCE TURF	98.33 SY	\$6.88	\$676.51
	Drainage Component Total			\$27,678.92

## **SIGNING COMPONENT**

Pay Items				
Pay item	Description	<b>Quantity Unit</b>	Unit Price E	Extended Amount
700-1-111	SINGLE COL GRND SIGN AS, F&I GM, <12 SF	1.00 EA	\$533.45	\$533.45
700-1-112	SINGLE COL GRND SIGN AS, F&I GM, 12-20	5.00 EA	\$1,918.21	\$9,591.05
700-1-500	SINGLE COL GRND SIGN AS, RELOCATE	1.00 EA	\$348.10	\$348.10
700-1-600	SINGLE COL GRND SIGN AS, REMOVE	5.00 EA	\$58.36	\$291.80
700-2-113	MULTI- COLUMN SIGN, F&I GM, 20.1-30 SF	1.00 EA	\$6,727.35	\$6,727.35
700-2-600	MULTI- COLUMN GROUND SIGN, REMOVE	1.00 EA	\$1,238.78	\$1,238.78
	Signing Component Total			\$18,730.53

# LIGHTING COMPONENT

<b>Description</b> Multiplier (Nun	nber of Poles)			<b>Value</b> 5
Pay Items				
Pay item	Description	Quantity Uni	t Unit Price	Extended Amount
630-2-11	CONDUIT, F& I, OPEN TRENCH	1,000.00 LF	\$24.85	\$24,850.00
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24"	5.00 EA	\$1,708.32	\$8,541.60
715-1-13	LIGHTING CONDUCTORS, F&I, INSUL, NO.4-2	3,000.00 LF	\$6.55	\$19,650.00
715-61-442	LIGHT POLE CMPLT,STD,F&I, 45'MH,12'ARM L	5.00 EA	\$16,000.00	\$80,000.00
715-500-1	POLE CABLE DIST SYS, CONVENTIONAL	5.00 EA	\$1,175.12	\$5,875.60
	Subcomponent Total			\$138,917.20
	Lighting Component Total			\$138,917.20

Sequence 9 Total

\$385,603.54

Sequence: 10 WUR - Widen/Resurface, Undivided, Rural

Net Length:

0.113 MI
596 LF

**Description:** Ramp D - SB off three lane section

#### **EARTHWORK COMPONENT**

#### **User Input Data**

Description	Value
Standard Clearing and Grubbing Limits L/R	30.00 / 30.00
Incidental Clearing and Grubbing Area	0.00
Alignment Number	1
Distance	0.113
Top of Structural Course For Begin Section	102.00
Top of Structural Course For End Section	102.00
Horizontal Elevation For Begin Section	100.00
Horizontal Elevation For End Section	100.00
Existing Front Slope L/R	6 to 1 / 6 to 1
Existing Outside Shoulder Cross Slope L/R	6.00 % / 6.00 %
Front Slope L/R	6 to 1 / 6 to 1
Outside Shoulder Cross Slope L/R	6.00 % / 6.00 %
Roadway Cross Slope L/R	2.00 % / 2.00 %

### Pay Items

Pay item	Description	<b>Quantity Unit</b>	Unit Price	Extended Amount
110-1-1	CLEARING & GRUBBING	0.82 AC	\$61,068.42	\$50,076.10
120-2-2	BORROW EXCAVATION, TRUCK MEASURE	144.52 CY	\$53.86	\$7,783.85
	Earthwork Component Total			\$57,859.95

# **ROADWAY COMPONENT**

#### **User Input Data**

Description	Value
Number of Lanes	3
Existing Roadway Pavement Width L/R	24.00 / 24.00
Structural Spread Rate	165
Friction Course Spread Rate	80
Widened Outside Pavement Width L/R	0.00 / 12.00
Widened Structural Spread Rate	275
Widened Friction Course Spread Rate	165

# Pay Items

Pay item	Description	<b>Quantity Unit</b>	Unit Price E	xtended Amount
160-4	TYPE B STABILIZATION	2,119.51 SY	\$21.48	\$45,527.07
285-709	OPTIONAL BASE,BASE GROUP 09	816.67 SY	\$58.67	\$47,914.03
327-70-5	MILLING EXIST ASPH PAVT, 2" AVG DEPTH	3,179.26 SY	\$7.52	\$23,908.04
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	262.29 TN	\$188.86	\$49,536.09
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	109.29 TN	\$188.86	\$20,640.51
337-7-83	ASPH CONC FC,TRAFFIC C,FC- 12.5,PG 76-22	127.17 TN	\$206.53	\$26,264.42
337-7-83	ASPH CONC FC,TRAFFIC C,FC- 12.5,PG 76-22	65.57 TN	\$206.53	\$13,542.17

## **Pavement Marking Subcomponent**

Description	Value
Include Thermo/Tape/Other	N
Pavement Type	Asphalt
Solid Stripe No. of Paint Applications	2
Solid Stripe No. of Stripes	2
Skip Stripe No. of Paint Applications	2
Skip Stripe No. of Stripes	2

## Pay Items

Pay item	Description	<b>Quantity Unit</b>	Unit Price Ext	tended Amount
706-1-3	RAISED PAVMT MARK, TYPE B	61.00 EA	\$4.96	\$302.56
710-11-101	PAINTED PAVT MARK,STD,WHITE,SOLID,6"	0.45 GM	\$1,448.71	\$651.92
710-11-231	PAINTED PAVT MARK,STD,YELLOW,SKIP,6"	0.45 GM	\$820.00	\$369.00

## **Peripherals Subcomponent**

Description	Value
Off Road Bike Path(s)	0
Off Road Bike Path Width L/R	0.00 / 0.00
Bike Path Structural Spread Rate	0
Noise Barrier Wall Length	0.00
Noise Barrier Wall Begin Height	0.00
Noise Barrier Wall End Height	0.00

Roadway Component Total \$228,655.81

#### SHOULDER COMPONENT

## **User Input Data**

Description	Value
Existing Total Outside Shoulder Width L/R	6.00 / 6.00
New Total Outside Shoulder Width L/R	8.00 / 12.00
Total Outside Shoulder Perf. Turf Width L/R	4.00 / 2.00
Existing Paved Outside Shoulder Width L/R	0.00 / 0.00
New Paved Outside Shoulder Width L/R	4.00 / 10.00
Structural Spread Rate	110
Friction Course Spread Rate	80
Total Width (T) / 8" Overlap (O)	Т
Rumble Strips ï¿⅓No. of Sides	0

## Pay Items

Pay item	Description	<b>Quantity Unit</b>	Unit Price Ex	tended Amount
285-704	OPTIONAL BASE,BASE GROUP 04	971.00 SY	\$42.51	\$41,277.21
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	51.00 TN	\$188.86	\$9,631.86
337-7-83	ASPH CONC FC,TRAFFIC C,FC- 12.5,PG 76-22	37.09 TN	\$206.53	\$7,660.20
570-1-1	PERFORMANCE TURF	397.41 SY	\$6.88	\$2,734.18

## **Erosion Control**

# Pay Items

Pay item	Description	<b>Quantity Unit</b>	Unit Price Ex	tended Amount
104-10-3	SEDIMENT BARRIER	1,371.06 LF	\$3.32	\$4,551.92
104-11	FLOATING TURBIDITY BARRIER	11.29 LF	\$15.96	\$180.19
104-12	STAKED TURBIDITY BARRIER- NYL REINF PVC	11.29 LF	\$19.18	\$216.54

	Shoulder Component Total			\$71,192.98
107-2	MOWING	0.27 AC	\$88.49	\$23.89
107-1	LITTER REMOVAL	0.27 AC	\$57.63	\$15.56
104-18	INLET PROTECTION SYSTEM	1.00 EA	\$192.13	\$192.13
104-15	SOIL TRACKING PREVENTION DEVICE	1.00 EA	\$4,709.30	\$4,709.30

## **DRAINAGE COMPONENT**

Pay Items				
Pay item	Description	<b>Quantity Unit</b>	Unit Price Ex	tended Amount
430-174-124	PIPE CULV, OPT MATL, ROUND,24"SD	16.00 LF	\$278.89	\$4,462.24
430-175-136	PIPE CULV, OPT MATL, ROUND, 36"S/CD	8.00 LF	\$310.89	\$2,487.12
430-984-129	MITERED END SECT, OPTIONAL RD, 24" SD	2.00 EA	\$3,624.19	\$7,248.38
570-1-1	PERFORMANCE TURF	45.61 SY	\$6.88	\$313.80
	Drainage Component Total			\$14,511.54

#### **SIGNING COMPONENT**

Pay Items				
Pay item	Description	<b>Quantity Unit</b>	Unit Price E	Extended Amount
700-1-111	SINGLE COL GRND SIGN AS, F&I GM, <12 SF	1.00 EA	\$533.45	\$533.45
700-1-112	SINGLE COL GRND SIGN AS, F&I GM, 12-20	3.00 EA	\$1,918.21	\$5,754.63
700-1-500	SINGLE COL GRND SIGN AS, RELOCATE	1.00 EA	\$348.10	\$348.10
700-1-600	SINGLE COL GRND SIGN AS, REMOVE	3.00 EA	\$58.36	\$175.08
700-2-113	MULTI- COLUMN SIGN, F&I GM, 20.1-30 SF	1.00 EA	\$6,727.35	\$6,727.35
700-2-600	MULTI- COLUMN GROUND SIGN, REMOVE	1.00 EA	\$1,238.78	\$1,238.78
	Signing Component Total			\$14,777.39

## LIGHTING COMPONENT

Description				Value
Multiplier (Num	ber of Poles)			2
Pay Items				
Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
630-2-11	CONDUIT, F& I, OPEN TRENCH	400.00 LF	\$24.85	\$9,940.00
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24"	2.00 EA	\$1,708.32	\$3,416.64
715-1-13	LIGHTING CONDUCTORS, F&I, INSUL, NO.4-2	1,200.00 LF	\$6.55	\$7,860.00
715-61-442	LIGHT POLE CMPLT,STD,F&I, 45'MH,12'ARM L	2.00 EA	\$16,000.00	\$32,000.00
715-500-1	POLE CABLE DIST SYS, CONVENTIONAL	2.00 EA	\$1,175.12	\$2,350.24
	Subcomponent Total			\$55,566.88

Lighting Component Total	\$55,566.88
Sequence 10 Total	\$442,564.55

Sequence: 14 WDR - Widen/Resurface, Divided, Rural

Net Length: 0.814 MI 4,300 LF

Description: SR 52

## **EARTHWORK COMPONENT**

## **User Input Data**

<b>Description</b> Standard Clearing and Grubbing Limits L/R	<b>Value</b> 20.00 / 20.00
Incidental Clearing and Grubbing Area	0.00
Alignment Number	1
Distance	0.814
Top of Structural Course For Begin Section	102.00
Top of Structural Course For End Section	102.00
Horizontal Elevation For Begin Section	100.00
Horizontal Elevation For End Section	100.00
Existing Front Slope L/R	6 to 1 / 6 to 1
Existing Median Slope L/R	6 to 1 / 6 to 1
Existing Median Shoulder Cross Slope L/R	5.00 % / 5.00 %
Existing Outside Shoulder Cross Slope L/R	6.00 % / 6.00 %
Front Slope L/R	6 to 1 / 6 to 1
Median Slope L/R	6 to 1 / 6 to 1
Median Shoulder Cross Slope L/R	5.00 % / 5.00 %
Outside Shoulder Cross Slope L/R	6.00 % / 6.00 %
Roadway Cross Slope L/R	2.00 % / 2.00 %

## Pay Items

ray items				
Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
110-1-1	CLEARING & GRUBBING	3.95 AC	\$61,068.42	\$241,220.26
120-2-2	BORROW EXCAVATION, TRUCK MEASURE	526.89 CY	\$53.86	\$28,378.30
	Earthwork Component Total			\$269,598.56

#### **ROADWAY COMPONENT**

# **User Input Data**

Description	Value
Number of Lanes	6
Existing Roadway Pavement Width L/R	36.00 / 36.00
Structural Spread Rate	220
Friction Course Spread Rate	80
Widened Outside Pavement Width L/R	0.00 / 14.00
Widened Inside Pavement Width L/R	0.00 / 0.00
Widened Structural Spread Rate	330
Widened Friction Course Spread Rate	80

# Pay Items

Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
160-4	TYPE B STABILIZATION	15,289.00 SY	\$21.48	\$328,407.72
285-709	OPTIONAL BASE,BASE GROUP 09	6,846.61 SY	\$58.67	\$401,690.61
327-70-5	MILLING EXIST ASPH PAVT, 2" AVG DEPTH	34,400.26 SY	\$7.52	\$258,689.96
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	3,784.03 TN	\$188.86	\$714,651.91
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	1,103.67 TN	\$188.86	\$208,439.12

337-7-25	ASPH CONC FC,INC BIT,FC- 5,PG76-22	1,376.01 TN	\$247.36	\$340,369.83
337-7-25	ASPH CONC FC,INC BIT,FC- 5,PG76-22	267.56 TN	\$247.36	\$66,183.64

# **Pavement Marking Subcomponent**

Description	Value
Include Thermo/Tape/Other	N
Pavement Type	Asphalt
Solid Stripe No. of Paint Applications	2
Solid Stripe No. of Stripes	4
Skip Stripe No. of Paint Applications	2
Skip Stripe No. of Stripes	4

#### Pav Items

i uy itoillo				
Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
706-1-3	RAISED PAVMT MARK, TYPE B	550.00 EA	\$4.96	\$2,728.00
710-11-101	PAINTED PAVT MARK,STD,WHITE,SOLID,6"	6.52 GM	\$1,448.71	\$9,445.59
710-11-131	PAINTED PAVT MARK,STD,WHITE,SKIP, 6"	6.52 GM	\$598.83	\$3,904.37
	Roadway Component Total			\$2,334,510.75

## SHOULDER COMPONENT

## **User Input Data**

Description	Value
Existing Total Outside Shoulder Width L/R	8.00 / 10.00
New Total Outside Shoulder Width L/R	8.00 / 10.00
Total Outside Shoulder Perf. Turf Width L/R	4.00 / 5.00
Existing Paved Outside Shoulder Width L/R	0.00 / 0.00
New Paved Outside Shoulder Width L/R	4.00 / 5.00
Structural Spread Rate	110
Friction Course Spread Rate	80
Total Width (T) / 8" Overlap (O)	Т
Rumble Strips �No. of Sides	0

## Pay Items

Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
285-704	OPTIONAL BASE,BASE GROUP 04	4,615.37 SY	\$42.51	\$196,199.38
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	236.50 TN	\$188.86	\$44,665.39
337-7-25	ASPH CONC FC,INC BIT,FC- 5,PG76-22	172.00 TN	\$247.36	\$42,545.92
570-1-1	PERFORMANCE TURF	4,300.03 SY	\$6.88	\$29,584.21

# X-Items

Pay item	Description	<b>Quantity Unit</b>	Unit Price Ex	tended Amount
522-1	CONCRETE SIDEWALK AND DRIVEWAYS, 4"	3,469.00 SY	\$81.67	\$283,313.23

#### **Erosion Control**

# Pay Items

Pay item	Description	<b>Quantity Unit</b>	Unit Price Ex	tended Amount
104-10-3	SEDIMENT BARRIER	9,890.07 LF	\$3.32	\$32,835.03
104-11	FLOATING TURBIDITY BARRIER	81.44 LF	\$15.96	\$1,299.78

104-12	STAKED TURBIDITY BARRIER- NYL REINF PVC	81.44 LF	\$19.18	\$1,562.02
104-15	SOIL TRACKING PREVENTION DEVICE	1.00 EA	\$4,709.30	\$4,709.30
107-1	LITTER REMOVAL	5.92 AC	\$57.63	\$341.17
107-2	MOWING	5.92 AC	\$88.49	\$523.86
	Shoulder Component Total			\$637,579.29

# **MEDIAN COMPONENT**

User	Input	Data
------	-------	------

Description	Value
Total Median Width	40.00
Performance Turf Width	36.00
New Total Median Shoulder Width L/R	0.00 / 0.00
New Paved Median Shoulder Width L/R	0.00 / 0.00
Existing Total Median Shoulder Width L/R	0.00 / 0.00
Existing Paved Median Shoulder Width L/R	0.00 / 0.00
Structural Spread Rate	110
Friction Course Spread Rate	80
Total Width (T) / 8" Overlap (O)	Т
Rumble Strips �No. of Sides	0

# Pay Items

Description	Quantity Unit	Unit Price	Extended Amount
PERFORMANCE TURF	17,200.13 SY	\$6.88	\$118,336.89
Description	<b>Quantity Unit</b>	Unit Price	<b>Extended Amount</b>
CONCRETE CURB & GUTTER, TYPE F	1,164.00 LF	\$49.20	\$57,268.80
Comment: median curb and gutter (lt/rt)			
Median Component Total			\$175,605.69
	PERFORMANCE TURF  Description  CONCRETE CURB & GUTTER,  TYPE F  Comment: median curb and gutter (lt/rt)	PERFORMANCE TURF 17,200.13 SY  Description Quantity Unit  CONCRETE CURB & GUTTER, TYPE F  Comment: median curb and gutter (lt/rt)	PERFORMANCE TURF 17,200.13 SY \$6.88  Description Quantity Unit Unit Price CONCRETE CURB & GUTTER, TYPE F Comment: median curb and gutter (lt/rt) \$49.20

#### **DRAINAGE COMPONENT**

Pay Items				
Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
430-174-124	PIPE CULV, OPT MATL, ROUND,24"SD	656.00 LF	\$278.89	\$182,951.84
430-175-136	PIPE CULV, OPT MATL, ROUND, 36"S/CD	72.00 LF	\$310.89	\$22,384.08
430-984-129	MITERED END SECT, OPTIONAL RD, 24" SD	33.00 EA	\$3,624.19	\$119,598.27
570-1-1	PERFORMANCE TURF	573.34 SY	\$6.88	\$3,944.58

#### **Retention Basin 1**

Description		Value
Size		.5 AC
Multiplier		1
Depth		6.00
D	Francis description and	

Description Expand exist pond

# Pay Items

Pay item Description Quantity Unit Unit Price Extended Amount

110-1-1	CLEARING & GRUBBING	0.50 AC	\$27,000.00	\$13,500.00
120-1	REGULAR EXCAVATION	4,840.00 CY	\$104.30	\$504,812.00
425-1-541	INLETS, DT BOT, TYPE D, <10'	1.00 EA	\$11,392.37	\$11,392.37
425-2-71	MANHOLES, J-7, <10'	1.00 EA	\$12,151.00	\$12,151.00
430-175-142	PIPE CULV, OPT MATL, ROUND, 42"S/CD	56.00 LF	\$654.39	\$36,645.84
430-175-160	PIPE CULV, OPT MATL, ROUND, 60"S/CD	200.00 LF	\$612.49	\$122,498.00
550-10-220	FENCING, TYPE B, 5.1-6.0', STANDARD	600.00 LF	\$81.27	\$48,762.00
550-60-234	FENCE GATE,TYP B,SLIDE/CANT,18.1-20'OPEN	1.00 EA	\$5,256.99	\$5,256.99
570-1-1	PERFORMANCE TURF	2,420.00 SY	\$18.06	\$43,705.20
	Drainage Component Total			\$1,127,602.17

## **SIGNING COMPONENT**

Pay Items				
Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
700-1-111	SINGLE COL GRND SIGN AS, F&I GM, <12 SF	2.00 EA	\$533.45	\$1,066.90
700-1-112	SINGLE COL GRND SIGN AS, F&I GM, 12-20	20.00 EA	\$1,918.21	\$38,364.20
700-1-500	SINGLE COL GRND SIGN AS, RELOCATE	2.00 EA	\$348.10	\$696.20
700-1-600	SINGLE COL GRND SIGN AS, REMOVE	20.00 EA	\$58.36	\$1,167.20
700-2-114	MULTI- COLUMN SIGN, F&I GM, 30.1-50 SF	2.00 EA	\$8,985.18	\$17,970.36
700-2-600	MULTI- COLUMN GROUND SIGN, REMOVE	2.00 EA	\$1,238.78	\$2,477.56
X-Items				
Pay item	Description	<b>Quantity Unit</b>	Unit Price	<b>Extended Amount</b>
700-2-116	MULTI- COLUMN SIGN, F&I GM, 100.1-200 SF	4.00 EA	\$17,590.91	\$70,363.64
700-3-105	SIGN PANEL, F&I GM, 51-100 SF	4.00 EA	\$4,447.82	\$17,791.28
700-3-206	SIGN PANEL, F&I OM, 101-200 SF	2.00 EA	\$10,172.19	\$20,344.38
700-4-114	OH STATIC SIGN STR, F&I, C 41- 50 FT	2.00 EA	\$182,265.02	\$364,530.04
	Signing Component Total			\$534,771.76

# SIGNALIZATIONS COMPONENT

Signalization 1				
Description		Value	9	
Туре		6 Lane Mast Arn	n	
Multiplier		;	3	
Description				
Pay Items				
Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
630-2-11	CONDUIT, F& I, OPEN TRENCH	2,100.00 LF	\$24.85	\$52,185.00
630-2-12	CONDUIT, F& I, DIRECTIONAL BORE	900.00 LF	\$40.59	\$36,531.00

632-7-1	SIGNAL CABLE- NEW OR RECO, FUR & INSTALL	3.00 PI	\$13,923.07	\$41,769.21
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24"	66.00 EA	\$1,708.32	\$112,749.12
639-1-112	ELECTRICAL POWER SRV,F&I,OH,M,PUR BY CON	3.00 AS	\$7,134.25	\$21,402.75
639-2-1	ELECTRICAL SERVICE WIRE, F&I	180.00 LF	\$12.20	\$2,196.00
641-2-11	PREST CNC POLE,F&I,TYP P-II,PEDESTAL	3.00 EA	\$2,478.21	\$7,434.63
649-21-21	STEEL MAST ARM ASSEMBLY, F&I, 78'	18.00 EA	\$114,308.63	\$2,057,555.34
650-1-14	VEH TRAF SIGNAL,F&I ALUMINUM, 3 S 1 W	60.00 AS	\$1,917.46	\$115,047.60
653-1-11	PEDESTRIAN SIGNAL, F&I LED COUNT, 1 WAY	24.00 AS	\$1,277.10	\$30,650.40
660-1-102	LOOP DETECTOR INDUCTIVE, F&I, TYPE 2	60.00 EA	\$766.00	\$45,960.00
660-2-106	LOOP ASSEMBLY, F&I, TYPE F	60.00 AS	\$1,793.71	\$107,622.60
665-1-11	PEDESTRIAN DETECTOR, F&I, STANDARD	24.00 EA	\$449.78	\$10,794.72
670-5-111	TRAF CNTL ASSEM, F&I, NEMA, 1 PREEMPT	3.00 AS	\$49,929.96	\$149,789.88
700-3-101	SIGN PANEL, F&I GM, UP TO 12 SF	12.00 EA	\$294.26	\$3,531.12
	Signalizations Component Total			\$2,795,219.37

## LIGHTING COMPONENT

Rural Lightin	g Subcomponent			
Description				Value
Multiplier (Nur	mber of Poles)			40
Pay Items				
Pay item	Description	Quantity Unit	Unit Price	Extended Amount
630-2-11	CONDUIT, F& I, OPEN TRENCH	8,000.00 LF	\$24.85	\$198,800.00
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24"	40.00 EA	\$1,708.32	\$68,332.80
715-1-13	LIGHTING CONDUCTORS, F&I, INSUL, NO.4-2	24,000.00 LF	\$6.55	\$157,200.00
715-61-442	LIGHT POLE CMPLT,STD,F&I, 45'MH,12'ARM L	40.00 EA	\$16,000.00	\$640,000.00
715-500-1	POLE CABLE DIST SYS, CONVENTIONAL	40.00 EA	\$1,175.12	\$47,004.80
	Subcomponent Total			\$1,111,337.60
-	Lighting Component Total			\$1,111,337.60
Sequence 14	l Total			\$8,986,225.19

Sequence: 15 WUR - Widen/Resurface, Undivided, Rural

Net Length:

0.091 MI
478 LF

Description: Ramp B - NB off 5 lane section

#### **EARTHWORK COMPONENT**

#### **User Input Data**

<b>Description</b> Standard Clearing and Grubbing Limits L/R	<b>Value</b> 40.00 / 40.00
Incidental Clearing and Grubbing Area	0.00
Alignment Number	1
Distance	0.090
Top of Structural Course For Begin Section	102.00
Top of Structural Course For End Section	102.00
Horizontal Elevation For Begin Section	100.00
Horizontal Elevation For End Section	100.00
Existing Front Slope L/R	6 to 1 / 6 to 1
Existing Outside Shoulder Cross Slope L/R	6.00 % / 6.00 %
Front Slope L/R	6 to 1 / 6 to 1
Outside Shoulder Cross Slope L/R	6.00 % / 6.00 %
Roadway Cross Slope L/R	2.00 % / 2.00 %

#### Pay Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
110-1-1	CLEARING & GRUBBING	0.87 AC	\$61,068.42	\$53,129.53
120-2-2	BORROW EXCAVATION, TRUCK MEASURE	217.71 CY	\$53.86	\$11,725.86
	Earthwork Component Total			\$64,855.39

# **ROADWAY COMPONENT**

#### **User Input Data**

Description	Value
Number of Lanes	5
Existing Roadway Pavement Width L/R	18.00 / 18.00
Structural Spread Rate	165
Friction Course Spread Rate	80
Widened Outside Pavement Width L/R	12.00 / 12.00
Widened Structural Spread Rate	275
Widened Friction Course Spread Rate	165

# Pay Items

Pay item	Description	<b>Quantity Unit</b>	Unit Price E	xtended Amount
160-4	TYPE B STABILIZATION	2,336.11 SY	\$21.48	\$50,179.64
285-709	OPTIONAL BASE,BASE GROUP 09	1,309.28 SY	\$58.67	\$76,815.46
327-70-5	MILLING EXIST ASPH PAVT, 2" AVG DEPTH	1,911.36 SY	\$7.52	\$14,373.43
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	157.69 TN	\$188.86	\$29,781.33
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	175.21 TN	\$188.86	\$33,090.16
337-7-83	ASPH CONC FC,TRAFFIC C,FC- 12.5,PG 76-22	76.45 TN	\$206.53	\$15,789.22
337-7-83	ASPH CONC FC,TRAFFIC C,FC- 12.5,PG 76-22	105.12 TN	\$206.53	\$21,710.43

## **Pavement Marking Subcomponent**

Description	Value
Include Thermo/Tape/Other	N
Pavement Type	Asphalt
Solid Stripe No. of Paint Applications	2
Solid Stripe No. of Stripes	2
Skip Stripe No. of Paint Applications	2
Skip Stripe No. of Stripes	4

# Pay Items

Pay item	Description	<b>Quantity Unit</b>	Unit Price Ex	ctended Amount
706-1-3	RAISED PAVMT MARK, TYPE B	73.00 EA	\$4.96	\$362.08
710-11-101	PAINTED PAVT MARK,STD,WHITE,SOLID,6"	0.36 GM	\$1,448.71	\$521.54
710-11-231	PAINTED PAVT MARK,STD,YELLOW,SKIP,6"	0.72 GM	\$820.00	\$590.40

# **Peripherals Subcomponent**

Description	Value
Off Road Bike Path(s)	0
Off Road Bike Path Width L/R	0.00 / 0.00
Bike Path Structural Spread Rate	0
Noise Barrier Wall Length	0.00
Noise Barrier Wall Begin Height	0.00
Noise Barrier Wall End Height	0.00

Roadway Component Total

#### SHOULDER COMPONENT

# **User Input Data**

Description	Value
Existing Total Outside Shoulder Width L/R	6.00 / 6.00
New Total Outside Shoulder Width L/R	8.00 / 12.00
Total Outside Shoulder Perf. Turf Width L/R	4.00 / 2.00
Existing Paved Outside Shoulder Width L/R	0.00 / 0.00
New Paved Outside Shoulder Width L/R	4.00 / 10.00
Structural Spread Rate	110
Friction Course Spread Rate	80
Total Width (T) / 8" Overlap (O)	Т
Rumble Strips �No. of Sides	0

# Pay Items

Pay item	Description	<b>Quantity Unit</b>	Unit Price Ex	tended Amount
285-704	OPTIONAL BASE, BASE GROUP 04	778.35 SY	\$42.51	\$33,087.66
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	40.88 TN	\$188.86	\$7,720.60
337-7-83	ASPH CONC FC,TRAFFIC C,FC- 12.5,PG 76-22	29.73 TN	\$206.53	\$6,140.14
570-1-1	PERFORMANCE TURF	318.56 SY	\$6.88	\$2,191.69

## **Erosion Control**

# Pay Items

Pay item	Description	<b>Quantity Unit</b>	Unit Price E	xtended Amount
104-10-3	SEDIMENT BARRIER	1,099.03 LF	\$3.32	\$3,648.78
104-11	FLOATING TURBIDITY BARRIER	9.05 LF	\$15.96	\$144.44
104-12	STAKED TURBIDITY BARRIER- NYL REINF PVC	9.05 LF	\$19.18	\$173.58

\$243,213.69

104-15	SOIL TRACKING PREVENTION DEVICE	1.00 EA	\$4,709.30	\$4,709.30
104-18	INLET PROTECTION SYSTEM	1.00 EA	\$192.13	\$192.13
107-1	LITTER REMOVAL	0.22 AC	\$57.63	\$12.68
107-2	MOWING	0.22 AC	\$88.49	\$19.47
	Shoulder Component Total			\$58,040.47

#### **DRAINAGE COMPONENT**

Pay Items				
Pay item	Description	<b>Quantity Unit</b>	Unit Price Ex	tended Amount
430-174-124	PIPE CULV, OPT MATL, ROUND,24"SD	16.00 LF	\$278.89	\$4,462.24
430-175-136	PIPE CULV, OPT MATL, ROUND, 36"S/CD	8.00 LF	\$310.89	\$2,487.12
430-984-129	MITERED END SECT, OPTIONAL RD, 24" SD	1.00 EA	\$3,624.19	\$3,624.19
570-1-1	PERFORMANCE TURF	36.56 SY	\$6.88	\$251.53
	Drainage Component Total			\$10,825.08

#### **SIGNING COMPONENT**

Pay Items				
Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	Extended Amount
700-1-111	SINGLE COL GRND SIGN AS, F&I GM, <12 SF	1.00 EA	\$533.45	\$533.45
700-1-112	SINGLE COL GRND SIGN AS, F&I GM, 12-20	2.00 EA	\$1,918.21	\$3,836.42
700-1-500	SINGLE COL GRND SIGN AS, RELOCATE	1.00 EA	\$348.10	\$348.10
700-1-600	SINGLE COL GRND SIGN AS, REMOVE	2.00 EA	\$58.36	\$116.72
700-2-113	MULTI- COLUMN SIGN, F&I GM, 20.1-30 SF	1.00 EA	\$6,727.35	\$6,727.35
700-2-600	MULTI- COLUMN GROUND SIGN, REMOVE	1.00 EA	\$1,238.78	\$1,238.78
	Signing Component Total			\$12,800.82

## LIGHTING COMPONENT

Description Multiplier (Num Pay Items	nber of Poles)			<b>Value</b> 2
Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
630-2-11	CONDUIT, F& I, OPEN TRENCH	400.00 LF	\$24.85	\$9,940.00
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24"	2.00 EA	\$1,708.32	\$3,416.64
715-1-13	LIGHTING CONDUCTORS, F&I, INSUL, NO.4-2	1,200.00 LF	\$6.55	\$7,860.00
715-61-442	LIGHT POLE CMPLT,STD,F&I, 45'MH,12'ARM L	2.00 EA	\$16,000.00	\$32,000.00
715-500-1	POLE CABLE DIST SYS, CONVENTIONAL	2.00 EA	\$1,175.12	\$2,350.24
	Subcomponent Total			\$55,566.88

Lighting Component Total	\$55,566.88
Sequence 15 Total	\$445,302.33

Sequence: 16 MIS - Miscellaneous Construction

Net Length:

0.000 MI
0 LF

**Description:** Landscaping

LANDSCAPING COMPONENT

User Input Data

 Description
 Value

 Lump Sum
 1,646,418.00

 Cost %
 0.00

 Component Detail
 N

Landscaping Component Total \$1,646,418.00

**Sequence 16 Total** \$1,646,418.00

Sequence: 17 MIS - Miscellaneous Construction

Net Length:

0.000 MI
0 LF

Description: ITS

•

**MISCELLANEOUS COMPONENT** 

**EX-Items** 

Pay item Description Quantity Unit Unit Price Extended Amount

ITS ITS, MOC, 4% OF SUBTOTAL 1.00 1 \$658,566.70 \$658,566.70

Miscellaneous Component Total \$658,566.70

**Sequence 17 Total** \$658,566.70

Sequence: 18 MIS - Miscellaneous Construction Net Length:  $0.000 \text{ MI} \\ 0 \text{ LF}$ 

**Description:** 25% Unknown

**MISCELLANEOUS COMPONENT** 

**EX-Items** 

Pay itemDescriptionQuantity UnitUnit PriceExtended Amount25% UNKNOWN FOR INFLATION1.00 1\$4,813,300.00\$4,813,300.00

Miscellaneous Component Total \$4,813,300.00

**Sequence 18 Total** \$4,813,300.00

Date: 2/12/2025 9:30:24 AM

# FDOT Long Range Estimating System - Production R3: Project Details by Sequence Report

**Project:** 448068-1-22-01 **Letting Date:** 01/2099

Description: PD&E WIDEN SUNCOAST PKWY(SR589) - S OF VAN DYKE RD TO SR52 (MP13-29)

District: 08 County: 97 TURNPIKE Market Area: 99 Units: English

Contract Class: 3 Lump Sum Project: N Design/Build: N Project Length: 15.979 MI

Project Manager: SHARMA

Version 14 Project Grand Total \$25,123,436.22

Description: SR 52

Project Se	equences Subtotal		\$20,639,203.49
102-1	Maintenance of Traffic	10.00 %	\$2,063,920.35
101-1	Mobilization	10.00 %	\$2,270,312.38
Project Se	equences Total		\$24,973,436.22
Project Unl	knowns	0.00 %	\$0.00
Design/Bui	ld	0.00 %	\$0.00

**Non-Bid Components:** 

Pay itemDescriptionQuantity UnitUnit PriceExtended Amount999-25INITIAL CONTINGENCY AMOUNT<br/>(DO NOT BID)LS\$150,000.00\$150,000.00Project Non-Bid Subtotal\$150,000.00

Version 14 Project Grand Total \$25,123,436.22

Date: 2/12/2025 9:28:46 AM

# FDOT Long Range Estimating System - Production R3: Project Details by Sequence Report

**Project:** 448068-1-22-01 **Letting Date:** 01/2099

Description: PD&E WIDEN SUNCOAST PKWY(SR589) - S OF VAN DYKE RD TO SR52 (MP13-29)

District: 08 County: 97 TURNPIKE Market Area: 99 Units: English

Contract Class: 3 Lump Sum Project: N Design/Build: N Project Length: 15.979 MI

Project Manager: SHARMA

Version 13 Project Grand Total \$19,299,758.00

**Description:** Ridge Road

Project Se	equences Subtotal		\$15,826,246.28
102-1	Maintenance of Traffic	10.00 %	\$1,582,624.63
101-1	Mobilization	10.00 %	\$1,740,887.09
Project Se	equences Total		\$19,149,758.00
Project Un	knowns	0.00 %	\$0.00
Design/Bu	ild	0.00 %	\$0.00

**Non-Bid Components:** 

Pay itemDescriptionQuantity UnitUnit PriceExtended Amount999-25INITIAL CONTINGENCY AMOUNT<br/>(DO NOT BID)LS\$150,000.00\$150,000.00Project Non-Bid Subtotal\$150,000.00

Version 13 Project Grand Total \$19,299,758.00

Date: 2/12/2025 9:30:21 AM

# FDOT Long Range Estimating System - Production R3: Project Details by Sequence Report

**Project**: 448068-1-22-01 **Letting Date**: 01/2099

Description: PD&E WIDEN SUNCOAST PKWY(SR589) - S OF VAN DYKE RD TO SR52 (MP13-29)

District: 08 County: 97 TURNPIKE Market Area: 99 Units: English

Contract Class: 3 Lump Sum Project: N Design/Build: N Project Length: 15.979 MI

Project Manager: SHARMA

Version 14 Project Grand Total \$25,123,436.22

Description: SR 52

Sequence: 2 WUR - Widen/Resurface, Undivided, Rural

Net Length: 0.374 MI 1,976 LF

Description: Ramp A - SB on two lane section

#### **EARTHWORK COMPONENT**

Hear	Input	Data
user	Input	Data

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Description	Value
Standard Clearing and Grubbing Limits L/R	20.00 / 20.00
Incidental Clearing and Grubbing Area	0.00
Alignment Number	1
Distance	0.374
Top of Structural Course For Begin Section	102.00
Top of Structural Course For End Section	102.00
Horizontal Elevation For Begin Section	100.00
Horizontal Elevation For End Section	100.00
Existing Front Slope L/R	6 to 1 / 6 to 1
Existing Outside Shoulder Cross Slope L/R	6.00 % / 6.00 %
Front Slope L/R	6 to 1 / 6 to 1
Outside Shoulder Cross Slope L/R	6.00 % / 6.00 %
Roadway Cross Slope L/R	2.00 % / 2.00 %

#### Pay Items

Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
110-1-1	CLEARING & GRUBBING	1.81 AC	\$61,068.42	\$110,533.84
120-2-2	BORROW EXCAVATION, TRUCK MEASURE	400.06 CY	\$53.86	\$21,547.23
	Earthwork Component Total			\$132,081.07

# **ROADWAY COMPONENT**

#### **User Input Data**

Description	Value
Number of Lanes	2
Existing Roadway Pavement Width L/R	7.50 / 7.50
Structural Spread Rate	165
Friction Course Spread Rate	80
Widened Outside Pavement Width L/R	0.00 / 9.00
Widened Structural Spread Rate	275
Widened Friction Course Spread Rate	165

Pay Items	Pay Ite	ems
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Pay item	Description	<b>Quantity Unit</b>	Unit Price	Extended Amount
160-4	TYPE B STABILIZATION	6,366.39 SY	\$21.48	\$136,750.06
285-709	OPTIONAL BASE,BASE GROUP 09	2,048.22 SY	\$58.67	\$120,169.07
327-70-5	MILLING EXIST ASPH PAVT, 2" AVG DEPTH	3,292.96 SY	\$7.52	\$24,763.06
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	271.67 TN	\$188.86	\$51,307.60
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	271.67 TN	\$188.86	\$51,307.60
337-7-83	ASPH CONC FC,TRAFFIC C,FC- 12.5,PG 76-22	131.72 TN	\$206.53	\$27,204.13
337-7-83	ASPH CONC FC,TRAFFIC C,FC- 12.5,PG 76-22	163.00 TN	\$206.53	\$33,664.39

# **Pavement Marking Subcomponent**

Description	Value
Include Thermo/Tape/Other	N
Pavement Type	Asphalt
Solid Stripe No. of Paint Applications	2
Solid Stripe No. of Stripes	2
Skip Stripe No. of Paint Applications	2
Skip Stripe No. of Stripes	1

# Pay Items

Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
706-1-3	RAISED PAVMT MARK, TYPE B	51.00 EA	\$4.96	\$252.96
710-11-101	PAINTED PAVT MARK,STD,WHITE,SOLID,6"	1.50 GM	\$1,448.71	\$2,173.06
710-11-231	PAINTED PAVT MARK.STD.YELLOW.SKIP.6"	0.75 GM	\$820.00	\$615.00

# **Peripherals Subcomponent**

Description	Value
Off Road Bike Path(s)	0
Off Road Bike Path Width L/R	0.00 / 0.00
Bike Path Structural Spread Rate	0
Noise Barrier Wall Length	0.00
Noise Barrier Wall Begin Height	0.00
Noise Barrier Wall End Height	0.00

Roadway Component Total

\$448,206.94

## SHOULDER COMPONENT

# **User Input Data**

Description	Value
Existing Total Outside Shoulder Width L/R	6.00 / 6.00
New Total Outside Shoulder Width L/R	8.00 / 12.00
Total Outside Shoulder Perf. Turf Width L/R	4.00 / 2.00
Existing Paved Outside Shoulder Width L/R	0.00 / 0.00
New Paved Outside Shoulder Width L/R	4.00 / 10.00
Structural Spread Rate	110
Friction Course Spread Rate	80
Total Width (T) / 8" Overlap (O)	T
Rumble Strips �No. of Sides	0

Pay Items				
Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
285-704	OPTIONAL BASE,BASE GROUP 04	3,218.32 SY	\$42.51	\$136,810.78
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	169.04 TN	\$188.86	\$31,924.89
337-7-83	ASPH CONC FC,TRAFFIC C,FC- 12.5,PG 76-22	122.94 TN	\$206.53	\$25,390.80
570-1-1	PERFORMANCE TURF	1,317.18 SY	\$6.88	\$9,062.20
<b>Erosion Contro</b>	I			
Pay Items				
Pay item	Description	<b>Quantity Unit</b>	Unit Price	Extended Amount
104-10-3	SEDIMENT BARRIER	4,544.28 LF	\$3.32	\$15,087.01
104-11	FLOATING TURBIDITY BARRIER	37.42 LF	\$15.96	\$597.22
104-12	STAKED TURBIDITY BARRIER- NYL REINF PVC	37.42 LF	\$19.18	\$717.72
104-15	SOIL TRACKING PREVENTION DEVICE	1.00 EA	\$4,709.30	\$4,709.30
104-18	INLET PROTECTION SYSTEM	1.00 EA	\$192.13	\$192.13
107-1	LITTER REMOVAL	0.91 AC	\$57.63	\$52.44
107-2	MOWING	0.91 AC	\$88.49	\$80.53
	Shoulder Component Total			\$224,625.02

#### **DRAINAGE COMPONENT**

Pay Items				
Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
430-174-124	PIPE CULV, OPT MATL, ROUND,24"SD	64.00 LF	\$278.89	\$17,848.96
430-175-136	PIPE CULV, OPT MATL, ROUND, 36"S/CD	24.00 LF	\$310.89	\$7,461.36
430-984-129	MITERED END SECT, OPTIONAL RD, 24" SD	4.00 EA	\$3,624.19	\$14,496.76
570-1-1	PERFORMANCE TURF	151.18 SY	\$6.88	\$1,040.12
	Drainage Component Total			\$40,847.20

## **SIGNING COMPONENT**

Pay Items				
Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
700-1-111	SINGLE COL GRND SIGN AS, F&I GM, <12 SF	1.00 EA	\$533.45	\$533.45
700-1-112	SINGLE COL GRND SIGN AS, F&I GM, 12-20	8.00 EA	\$1,918.21	\$15,345.68
700-1-500	SINGLE COL GRND SIGN AS, RELOCATE	1.00 EA	\$348.10	\$348.10
700-1-600	SINGLE COL GRND SIGN AS, REMOVE	8.00 EA	\$58.36	\$466.88
700-2-113	MULTI- COLUMN SIGN, F&I GM, 20.1-30 SF	1.00 EA	\$6,727.35	\$6,727.35
700-2-600	MULTI- COLUMN GROUND SIGN, REMOVE	1.00 EA	\$1,238.78	\$1,238.78
	Signing Component Total			\$24,660.24

# LIGHTING COMPONENT

Description Multiplier (Num	nber of Poles)			<b>Value</b> 8
Pay Items	Decembris	0	Unit Dai	Fretzinala al Ausanount
Pay item	Description	Quantity Unit		Extended Amount
630-2-11	CONDUIT, F& I, OPEN TRENCH	1,600.00 LF	\$24.85	\$39,760.00
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24"	8.00 EA	\$1,708.32	\$13,666.56
715-1-13	LIGHTING CONDUCTORS, F&I, INSUL, NO.4-2	4,800.00 LF	\$6.55	\$31,440.00
715-61-442	LIGHT POLE CMPLT,STD,F&I, 45'MH,12'ARM L	8.00 EA	\$16,000.00	\$128,000.00
715-500-1	POLE CABLE DIST SYS, CONVENTIONAL	8.00 EA	\$1,175.12	\$9,400.96
	Subcomponent Total			\$222,267.52
	Lighting Component Total			\$222,267.52
Sequence 2 T	- Total			\$1,092,687.99

Sequence: 5 WUR - Widen/Resurface, Undivided, Rural

Net Length: 0.210 MI 1,110 LF

Description: Ramp B - NB off two lane section

#### **EARTHWORK COMPONENT**

#### **User Input Data**

<b>Description</b> Standard Clearing and Grubbing Limits L/R	<b>Value</b> 30.00 / 30.00
Incidental Clearing and Grubbing Area	0.00
Alignment Number	1
Distance	0.210
Top of Structural Course For Begin Section	102.00
Top of Structural Course For End Section	102.00
Horizontal Elevation For Begin Section	100.00
Horizontal Elevation For End Section	100.00
Existing Front Slope L/R	6 to 1 / 6 to 1
Existing Outside Shoulder Cross Slope L/R	6.00 % / 6.00 %
Front Slope L/R	6 to 1 / 6 to 1
Outside Shoulder Cross Slope L/R	6.00 % / 6.00 %
Roadway Cross Slope L/R	2.00 % / 2.00 %

## Pay Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
110-1-1	CLEARING & GRUBBING	1.53 AC	\$61,068.42	\$93,434.68
120-2-2	BORROW EXCAVATION, TRUCK MEASURE	224.63 CY	\$53.86	\$12,098.57
	Earthwork Component Total			\$105,533.25

# **ROADWAY COMPONENT**

#### **User Input Data**

Description	Value
Number of Lanes	2
Existing Roadway Pavement Width L/R	7.50 / 7.50
Structural Spread Rate	165
Friction Course Spread Rate	80
Widened Outside Pavement Width L/R	0.00 / 9.00
Widened Structural Spread Rate	275
Widened Friction Course Spread Rate	165

# Pay Items

Pay item	Description	<b>Quantity Unit</b>	Unit Price Ex	tended Amount
160-4	TYPE B STABILIZATION	3,576.20 SY	\$21.48	\$76,816.78
285-709	OPTIONAL BASE,BASE GROUP 09	1,150.55 SY	\$58.67	\$67,502.77
327-70-5	MILLING EXIST ASPH PAVT, 2" AVG DEPTH	1,849.76 SY	\$7.52	\$13,910.20
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	152.61 TN	\$188.86	\$28,821.92
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	152.61 TN	\$188.86	\$28,821.92
337-7-83	ASPH CONC FC,TRAFFIC C,FC- 12.5,PG 76-22	73.99 TN	\$206.53	\$15,281.15
337-7-83	ASPH CONC FC,TRAFFIC C,FC- 12.5,PG 76-22	91.56 TN	\$206.53	\$18,909.89

## **Pavement Marking Subcomponent**

Description	Value
Include Thermo/Tape/Other	N
Pavement Type	Asphalt
Solid Stripe No. of Paint Applications	2
Solid Stripe No. of Stripes	2
Skip Stripe No. of Paint Applications	2
Skip Stripe No. of Stripes	1

# Pay Items

Pay item	Description	<b>Quantity Unit</b>	Unit Price I	Extended Amount
706-1-3	RAISED PAVMT MARK, TYPE B	28.00 EA	\$4.96	\$138.88
710-11-101	PAINTED PAVT MARK,STD,WHITE,SOLID,6"	0.84 GM	\$1,448.71	\$1,216.92
710-11-231	PAINTED PAVT MARK,STD,YELLOW,SKIP,6"	0.42 GM	\$820.00	\$344.40
	Roadway Component Total			\$251,764.83

#### SHOULDER COMPONENT

## **User Input Data**

Description	Value
Existing Total Outside Shoulder Width L/R	6.00 / 6.00
New Total Outside Shoulder Width L/R	8.00 / 12.00
Total Outside Shoulder Perf. Turf Width L/R	4.00 / 2.00
Existing Paved Outside Shoulder Width L/R	0.00 / 0.00
New Paved Outside Shoulder Width L/R	4.00 / 10.00
Structural Spread Rate	110
Friction Course Spread Rate	80
Total Width (T) / 8" Overlap (O)	Т
Rumble Strips �No. of Sides	0

## Pay Items

Pay item	Description	<b>Quantity Unit</b>	Unit Price Ext	ended Amount
285-704	OPTIONAL BASE,BASE GROUP 04	1,807.83 SY	\$42.51	\$76,850.85
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	94.95 TN	\$188.86	\$17,932.26
337-7-83	ASPH CONC FC,TRAFFIC C,FC- 12.5,PG 76-22	69.06 TN	\$206.53	\$14,262.96
570-1-1	PERFORMANCE TURF	739.90 SY	\$6.88	\$5,090.51

## **Erosion Control**

#### Pay Items

,				
Pay item	Description	<b>Quantity Unit</b>	Unit Price E	xtended Amount
104-10-3	SEDIMENT BARRIER	2,552.67 LF	\$3.32	\$8,474.86
104-11	FLOATING TURBIDITY BARRIER	21.02 LF	\$15.96	\$335.48
104-12	STAKED TURBIDITY BARRIER- NYL REINF PVC	21.02 LF	\$19.18	\$403.16
104-15	SOIL TRACKING PREVENTION DEVICE	1.00 EA	\$4,709.30	\$4,709.30
104-18	INLET PROTECTION SYSTEM	1.00 EA	\$192.13	\$192.13
107-1	LITTER REMOVAL	0.51 AC	\$57.63	\$29.39
107-2	MOWING	0.51 AC	\$88.49	\$45.13
	Shoulder Component Total			\$128,326.03

## **DRAINAGE COMPONENT**

Pay Items				
Pay item	Description	<b>Quantity Unit</b>	Unit Price E	xtended Amount
430-174-124	PIPE CULV, OPT MATL, ROUND,24"SD	32.00 LF	\$278.89	\$8,924.48
430-175-136	PIPE CULV, OPT MATL, ROUND, 36"S/CD	16.00 LF	\$310.89	\$4,974.24
430-984-129	MITERED END SECT, OPTIONAL RD, 24" SD	3.00 EA	\$3,624.19	\$10,872.57
570-1-1	PERFORMANCE TURF	84.92 SY	\$6.88	\$584.25
	Drainage Component Total			\$25,355.54

## **SIGNING COMPONENT**

Pay Items				
Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	Extended Amount
700-1-111	SINGLE COL GRND SIGN AS, F&I GM, <12 SF	1.00 EA	\$533.45	\$533.45
700-1-112	SINGLE COL GRND SIGN AS, F&I GM, 12-20	5.00 EA	\$1,918.21	\$9,591.05
700-1-500	SINGLE COL GRND SIGN AS, RELOCATE	1.00 EA	\$348.10	\$348.10
700-1-600	SINGLE COL GRND SIGN AS, REMOVE	5.00 EA	\$58.36	\$291.80
700-2-113	MULTI- COLUMN SIGN, F&I GM, 20.1-30 SF	1.00 EA	\$6,727.35	\$6,727.35
700-2-600	MULTI- COLUMN GROUND SIGN, REMOVE	1.00 EA	\$1,238.78	\$1,238.78
	Signing Component Total			\$18,730.53

## LIGHTING COMPONENT

Rural Lighting	g Subcomponent			
Description				Value
Multiplier (Nun	nber of Poles)			4
Pay Items				
Pay item	Description	Quantity Unit	<b>Unit Price</b>	<b>Extended Amount</b>
630-2-11	CONDUIT, F& I, OPEN TRENCH	800.00 LF	\$24.85	\$19,880.00
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24"	4.00 EA	\$1,708.32	\$6,833.28
715-1-13	LIGHTING CONDUCTORS, F&I, INSUL, NO.4-2	2,400.00 LF	\$6.55	\$15,720.00
715-61-442	LIGHT POLE CMPLT,STD,F&I, 45'MH,12'ARM L	4.00 EA	\$16,000.00	\$64,000.00
715-500-1	POLE CABLE DIST SYS, CONVENTIONAL	4.00 EA	\$1,175.12	\$4,700.48
	Subcomponent Total			\$111,133.76
	Lighting Component Total			\$111,133.76

Sequence 5 Total

\$640,843.94

Sequence: 6 WUR - Widen/Resurface, Undivided, Rural

Net Length:

0.081 MI
428 LF

Description: Ramp B - NB off four lane section

#### **EARTHWORK COMPONENT**

#### **User Input Data**

Description	Value
Standard Clearing and Grubbing Limits L/R	40.00 / 40.00
Incidental Clearing and Grubbing Area	0.00
Alignment Number	1
Distance	0.081
Top of Structural Course For Begin Section	102.00
Top of Structural Course For End Section	102.00
Horizontal Elevation For Begin Section	100.00
Horizontal Elevation For End Section	100.00
Existing Front Slope L/R	6 to 1 / 6 to 1
Existing Outside Shoulder Cross Slope L/R	6.00 % / 6.00 %
Front Slope L/R	6 to 1 / 6 to 1
Outside Shoulder Cross Slope L/R	6.00 % / 6.00 %
Roadway Cross Slope L/R	2.00 % / 2.00 %

## Pay Items

Pay item	Description	<b>Quantity Unit</b>	Unit Price	Extended Amount
110-1-1	CLEARING & GRUBBING	0.79 AC	\$61,068.42	\$48,244.05
120-2-2	BORROW EXCAVATION, TRUCK MEASURE	195.94 CY	\$53.86	\$10,553.33
	Earthwork Component Total			\$58,797.38

## **ROADWAY COMPONENT**

#### **User Input Data**

Description	Value
Number of Lanes	4
Existing Roadway Pavement Width L/R	12.00 / 12.00
Structural Spread Rate	165
Friction Course Spread Rate	80
Widened Outside Pavement Width L/R	12.00 / 12.00
Widened Structural Spread Rate	275
Widened Friction Course Spread Rate	165

## Pay Items

Pay item	Description	<b>Quantity Unit</b>	Unit Price E	xtended Amount
160-4	TYPE B STABILIZATION	2,093.46 SY	\$21.48	\$44,967.52
285-709	OPTIONAL BASE,BASE GROUP 09	1,173.29 SY	\$58.67	\$68,836.92
327-70-5	MILLING EXIST ASPH PAVT, 2" AVG DEPTH	1,141.89 SY	\$7.52	\$8,587.01
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	94.21 TN	\$188.86	\$17,792.50
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	157.01 TN	\$188.86	\$29,652.91
337-7-83	ASPH CONC FC,TRAFFIC C,FC- 12.5,PG 76-22	45.68 TN	\$206.53	\$9,434.29
337-7-83	ASPH CONC FC,TRAFFIC C,FC- 12.5,PG 76-22	94.21 TN	\$206.53	\$19,457.19

## **Pavement Marking Subcomponent**

Description	Value
Include Thermo/Tape/Other	N
Pavement Type	Asphalt
Solid Stripe No. of Paint Applications	2
Solid Stripe No. of Stripes	2
Skip Stripe No. of Paint Applications	2
Skip Stripe No. of Stripes	3

## Pay Items

Pay item	Description	<b>Quantity Unit</b>	Unit Price Ex	xtended Amount
706-1-3	RAISED PAVMT MARK, TYPE B	55.00 EA	\$4.96	\$272.80
710-11-101	PAINTED PAVT MARK,STD,WHITE,SOLID,6"	0.32 GM	\$1,448.71	\$463.59
710-11-231	PAINTED PAVT MARK,STD,YELLOW,SKIP,6"	0.49 GM	\$820.00	\$401.80

## **Peripherals Subcomponent**

Description	Value
Off Road Bike Path(s)	0
Off Road Bike Path Width L/R	0.00 / 0.00
Bike Path Structural Spread Rate	0
Noise Barrier Wall Length	0.00
Noise Barrier Wall Begin Height	0.00
Noise Barrier Wall End Height	0.00

## Roadway Component Total

## SHOULDER COMPONENT

## **User Input Data**

Description	Value
Existing Total Outside Shoulder Width L/R	6.00 / 6.00
New Total Outside Shoulder Width L/R	8.00 / 12.00
Total Outside Shoulder Perf. Turf Width L/R	4.00 / 2.00
Existing Paved Outside Shoulder Width L/R	0.00 / 0.00
New Paved Outside Shoulder Width L/R	4.00 / 10.00
Structural Spread Rate	110
Friction Course Spread Rate	80
Total Width (T) / 8" Overlap (O)	Т
Rumble Strips �No. of Sides	0

# Pay Items

Pay item	Description	<b>Quantity Unit</b>	Unit Price Ex	tended Amount
285-704	OPTIONAL BASE,BASE GROUP 04	697.50 SY	\$42.51	\$29,650.72
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	36.64 TN	\$188.86	\$6,919.83
337-7-83	ASPH CONC FC,TRAFFIC C,FC- 12.5,PG 76-22	26.64 TN	\$206.53	\$5,501.96
570-1-1	PERFORMANCE TURF	285.47 SY	\$6.88	\$1,964.03

## **Erosion Control**

## Pay Items

Pay item	Description	<b>Quantity Unit</b>	Unit Price Ex	tended Amount
104-10-3	SEDIMENT BARRIER	984.88 LF	\$3.32	\$3,269.80
104-11	FLOATING TURBIDITY BARRIER	8.11 LF	\$15.96	\$129.44
104-12	STAKED TURBIDITY BARRIER- NYL REINF PVC	8.11 LF	\$19.18	\$155.55

\$199,866.53

104-15	SOIL TRACKING PREVENTION DEVICE	1.00 EA	\$4,709.30	\$4,709.30
104-18	INLET PROTECTION SYSTEM	1.00 EA	\$192.13	\$192.13
107-1	LITTER REMOVAL	0.20 AC	\$57.63	\$11.53
107-2	MOWING	0.20 AC	\$88.49	\$17.70
	Shoulder Component Total			\$52,522.00

## **DRAINAGE COMPONENT**

Pay Items				
Pay item	Description	<b>Quantity Unit</b>	Unit Price E	xtended Amount
430-174-124	PIPE CULV, OPT MATL, ROUND,24"SD	16.00 LF	\$278.89	\$4,462.24
430-175-136	PIPE CULV, OPT MATL, ROUND, 36"S/CD	8.00 LF	\$310.89	\$2,487.12
430-984-129	MITERED END SECT, OPTIONAL RD, 24" SD	1.00 EA	\$3,624.19	\$3,624.19
570-1-1	PERFORMANCE TURF	32.76 SY	\$6.88	\$225.39
	Drainage Component Total			\$10,798.94

#### **SIGNING COMPONENT**

Pay Items				
Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	Extended Amount
700-1-111	SINGLE COL GRND SIGN AS, F&I GM, <12 SF	1.00 EA	\$533.45	\$533.45
700-1-112	SINGLE COL GRND SIGN AS, F&I GM, 12-20	2.00 EA	\$1,918.21	\$3,836.42
700-1-500	SINGLE COL GRND SIGN AS, RELOCATE	1.00 EA	\$348.10	\$348.10
700-1-600	SINGLE COL GRND SIGN AS, REMOVE	2.00 EA	\$58.36	\$116.72
700-2-113	MULTI- COLUMN SIGN, F&I GM, 20.1-30 SF	1.00 EA	\$6,727.35	\$6,727.35
700-2-600	MULTI- COLUMN GROUND SIGN, REMOVE	1.00 EA	\$1,238.78	\$1,238.78
	Signing Component Total			\$12,800.82

## LIGHTING COMPONENT

<b>Description</b> Multiplier (Num	nber of Poles)			<b>Value</b> 2
Pay Items				
Pay item	Description	Quantity Unit	Unit Price	Extended Amount
630-2-11	CONDUIT, F& I, OPEN TRENCH	400.00 LF	\$24.85	\$9,940.00
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24"	2.00 EA	\$1,708.32	\$3,416.64
715-1-13	LIGHTING CONDUCTORS, F&I, INSUL, NO.4-2	1,200.00 LF	\$6.55	\$7,860.00
715-61-442	LIGHT POLE CMPLT,STD,F&I, 45'MH,12'ARM L	2.00 EA	\$16,000.00	\$32,000.00
715-500-1	POLE CABLE DIST SYS, CONVENTIONAL	2.00 EA	\$1,175.12	\$2,350.24

**Subcomponent Total** 

\$55,566.88

Lighting Component Total	\$55,566.88
Sequence 6 Total	\$390,352.55

Sequence: 7 WUR - Widen/Resurface, Undivided, Rural

Net Length: 0.371 MI 1,956 LF

Description: Ramp C - NB on two lane section

#### **EARTHWORK COMPONENT**

## **User Input Data**

Description	Value
Standard Clearing and Grubbing Limits L/R	30.00 / 30.00
Incidental Clearing and Grubbing Area	0.00
Alignment Number	1
Distance	0.370
Top of Structural Course For Begin Section	102.00
Top of Structural Course For End Section	102.00
Horizontal Elevation For Begin Section	100.00
Horizontal Elevation For End Section	100.00
Existing Front Slope L/R	6 to 1 / 6 to 1
Existing Outside Shoulder Cross Slope L/R	6.00 % / 6.00 %
Front Slope L/R	6 to 1 / 6 to 1
Outside Shoulder Cross Slope L/R	6.00 % / 6.00 %
Roadway Cross Slope L/R	2.00 % / 2.00 %

## Pay Items

Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
110-1-1	CLEARING & GRUBBING	2.69 AC	\$61,068.42	\$164,274.05
120-2-2	BORROW EXCAVATION, TRUCK MEASURE	395.78 CY	\$53.86	\$21,316.71
	Earthwork Component Total			\$185,590.76

## **ROADWAY COMPONENT**

#### **User Input Data**

Description	Value
Number of Lanes	2
Existing Roadway Pavement Width L/R	7.50 / 7.50
Structural Spread Rate	165
Friction Course Spread Rate	80
Widened Outside Pavement Width L/R	0.00 / 9.00
Widened Structural Spread Rate	275
Widened Friction Course Spread Rate	165

## Pay Items

Pay item	Description	<b>Quantity Unit</b>	Unit Price	<b>Extended Amount</b>
160-4	TYPE B STABILIZATION	6,303.44 SY	\$21.48	\$135,397.89
285-709	OPTIONAL BASE,BASE GROUP 09	2,027.97 SY	\$58.67	\$118,981.00
327-70-5	MILLING EXIST ASPH PAVT, 2" AVG DEPTH	3,260.40 SY	\$7.52	\$24,518.21
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	268.98 TN	\$188.86	\$50,799.56
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	268.98 TN	\$188.86	\$50,799.56
337-7-83	ASPH CONC FC,TRAFFIC C,FC- 12.5,PG 76-22	130.42 TN	\$206.53	\$26,935.64
337-7-83	ASPH CONC FC,TRAFFIC C,FC- 12.5,PG 76-22	161.39 TN	\$206.53	\$33,331.88

## **Pavement Marking Subcomponent**

Description	Value
Include Thermo/Tape/Other	N
Pavement Type	Asphalt
Solid Stripe No. of Paint Applications	2
Solid Stripe No. of Stripes	2
Skip Stripe No. of Paint Applications	2
Skip Stripe No. of Stripes	1

## Pay Items

Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	Extended Amount
706-1-3	RAISED PAVMT MARK, TYPE B	50.00 EA	\$4.96	\$248.00
710-11-101	PAINTED PAVT MARK,STD,WHITE,SOLID,6"	1.48 GM	\$1,448.71	\$2,144.09
710-11-231	PAINTED PAVT MARK,STD,YELLOW,SKIP,6"	0.74 GM	\$820.00	\$606.80

## **Peripherals Subcomponent**

Description	Value
Off Road Bike Path(s)	0
Off Road Bike Path Width L/R	0.00 / 0.00
Bike Path Structural Spread Rate	0
Noise Barrier Wall Length	0.00
Noise Barrier Wall Begin Height	0.00
Noise Barrier Wall End Height	0.00

## Roadway Component Total \$443,762.63

#### SHOULDER COMPONENT

# **User Input Data**

Description	Value
Existing Total Outside Shoulder Width L/R	6.00 / 6.00
New Total Outside Shoulder Width L/R	8.00 / 12.00
Total Outside Shoulder Perf. Turf Width L/R	4.00 / 2.00
Existing Paved Outside Shoulder Width L/R	0.00 / 0.00
New Paved Outside Shoulder Width L/R	4.00 / 10.00
Structural Spread Rate	110
Friction Course Spread Rate	80
Total Width (T) / 8" Overlap (O)	Т
Rumble Strips �No. of Sides	0

## Pay Items

Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
285-704	OPTIONAL BASE,BASE GROUP 04	3,186.50 SY	\$42.51	\$135,458.12
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	167.37 TN	\$188.86	\$31,609.50
337-7-83	ASPH CONC FC,TRAFFIC C,FC- 12.5,PG 76-22	121.72 TN	\$206.53	\$25,138.83
570-1-1	PERFORMANCE TURF	1,304.16 SY	\$6.88	\$8,972.62

## **Erosion Control**

## Pay Items

Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
104-10-3	SEDIMENT BARRIER	4,499.35 LF	\$3.32	\$14,937.84
104-11	FLOATING TURBIDITY BARRIER	37.05 LF	\$15.96	\$591.32
104-12	STAKED TURBIDITY BARRIER- NYL REINF PVC	37.05 LF	\$19.18	\$710.62

	Shoulder Component Total			\$222,451.79
107-2	MOWING	0.90 AC	\$88.49	\$79.64
107-1	LITTER REMOVAL	0.90 AC	\$57.63	\$51.87
104-18	INLET PROTECTION SYSTEM	1.00 EA	\$192.13	\$192.13
104-15	SOIL TRACKING PREVENTION DEVICE	1.00 EA	\$4,709.30	\$4,709.30

## **DRAINAGE COMPONENT**

Pay Items				
Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
430-174-124	PIPE CULV, OPT MATL, ROUND,24"SD	56.00 LF	\$278.89	\$15,617.84
430-175-136	PIPE CULV, OPT MATL, ROUND, 36"S/CD	24.00 LF	\$310.89	\$7,461.36
430-984-129	MITERED END SECT, OPTIONAL RD, 24" SD	4.00 EA	\$3,624.19	\$14,496.76
570-1-1	PERFORMANCE TURF	149.68 SY	\$6.88	\$1,029.80
	Drainage Component Total			\$38,605.76

#### **SIGNING COMPONENT**

Pay Items				
Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
700-1-111	SINGLE COL GRND SIGN AS, F&I GM, <12 SF	1.00 EA	\$533.45	\$533.45
700-1-112	SINGLE COL GRND SIGN AS, F&I GM, 12-20	8.00 EA	\$1,918.21	\$15,345.68
700-1-500	SINGLE COL GRND SIGN AS, RELOCATE	1.00 EA	\$348.10	\$348.10
700-1-600	SINGLE COL GRND SIGN AS, REMOVE	8.00 EA	\$58.36	\$466.88
700-2-113	MULTI- COLUMN SIGN, F&I GM, 20.1-30 SF	1.00 EA	\$6,727.35	\$6,727.35
700-2-600	MULTI- COLUMN GROUND SIGN, REMOVE	1.00 EA	\$1,238.78	\$1,238.78
	Signing Component Total			\$24,660.24

## LIGHTING COMPONENT

<b>Description</b> Multiplier (Nun	nber of Poles)			<b>Value</b> 8
Pay Items				
Pay item	Description	Quantity Unit	<b>Unit Price</b>	Extended Amount
630-2-11	CONDUIT, F& I, OPEN TRENCH	1,600.00 LF	\$24.85	\$39,760.00
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24"	8.00 EA	\$1,708.32	\$13,666.56
715-1-13	LIGHTING CONDUCTORS, F&I, INSUL, NO.4-2	4,800.00 LF	\$6.55	\$31,440.00
715-61-442	LIGHT POLE CMPLT,STD,F&I, 45'MH,12'ARM L	8.00 EA	\$16,000.00	\$128,000.00
715-500-1	POLE CABLE DIST SYS, CONVENTIONAL	8.00 EA	\$1,175.12	\$9,400.96
	Subcomponent Total			\$222,267.52

Lighting Component Total	\$222,267.52
Sequence 7 Total	\$1,137,338.70

Sequence: 9 WUR - Widen/Resurface, Undivided, Rural

Net Length:

0.243 MI
1,285 LF

Description: Ramp D - SB off one lane section

#### **EARTHWORK COMPONENT**

#### **User Input Data**

<b>Description</b> Standard Clearing and Grubbing Limits L/R	<b>Value</b> 15.00 / 15.00
Incidental Clearing and Grubbing Area	0.00
Alignment Number	1
Distance	0.243
Top of Structural Course For Begin Section	102.00
Top of Structural Course For End Section	102.00
Horizontal Elevation For Begin Section	100.00
Horizontal Elevation For End Section	100.00
Existing Front Slope L/R	6 to 1 / 6 to 1
Existing Outside Shoulder Cross Slope L/R	6.00 % / 6.00 %
Front Slope L/R	6 to 1 / 6 to 1
Outside Shoulder Cross Slope L/R	6.00 % / 6.00 %
Roadway Cross Slope L/R	2.00 % / 2.00 %

#### Pay Items

Pay item	Description	<b>Quantity Unit</b>	Unit Price E	xtended Amount
110-1-1	CLEARING & GRUBBING	0.88 AC	\$61,068.42	\$53,740.21
	Earthwork Component Total			\$53,740.21

## **ROADWAY COMPONENT**

## **User Input Data**

Description	Value
Number of Lanes	1
Existing Roadway Pavement Width L/R	7.50 / 7.50
Structural Spread Rate	165
Friction Course Spread Rate	80
Widened Outside Pavement Width L/R	0.00 / 0.00
Widened Structural Spread Rate	275
Widened Friction Course Spread Rate	165

## Pay Items

Pay item	Description	<b>Quantity Unit</b>	Unit Price Ex	tended Amount
327-70-5	MILLING EXIST ASPH PAVT, 2" AVG DEPTH	2,141.92 SY	\$7.52	\$16,107.24
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	176.71 TN	\$188.86	\$33,373.45
337-7-83	ASPH CONC FC,TRAFFIC C,FC-	85.68 TN	\$206.53	\$17,695.49

## **Pavement Marking Subcomponent**

Description	Value
Include Thermo/Tape/Other	N
Pavement Type	Asphalt
Solid Stripe No. of Paint Applications	2
Solid Stripe No. of Stripes	2
Skip Stripe No. of Paint Applications	2
Skip Stripe No. of Stripes	0

Pay Items
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Pay item	Description	Quantity Unit	Unit Price E	Extended Amount
710-11-101	PAINTED PAVT MARK.STD.WHITE.SOLID.6"	0.97 GM	\$1,448.71	\$1,405.25

## **Peripherals Subcomponent**

Description	Value
Off Road Bike Path(s)	0
Off Road Bike Path Width L/R	0.00 / 0.00
Bike Path Structural Spread Rate	0
Noise Barrier Wall Length	0.00
Noise Barrier Wall Begin Height	0.00
Noise Barrier Wall End Height	0.00

Roadway Component Total \$68,581.43

## SHOULDER COMPONENT

## **User Input Data**

Description	Value
Existing Total Outside Shoulder Width L/R	6.00 / 6.00
New Total Outside Shoulder Width L/R	6.00 / 6.00
Total Outside Shoulder Perf. Turf Width L/R	4.00 / 2.00
Existing Paved Outside Shoulder Width L/R	0.00 / 0.00
New Paved Outside Shoulder Width L/R	2.00 / 4.00
Structural Spread Rate	110
Friction Course Spread Rate	80
Total Width (T) / 8" Overlap (O)	Т
Rumble Strips �No. of Sides	0

## Pay Items

Pay item	Description	<b>Quantity Unit</b>	Unit Price Ex	tended Amount
285-704	OPTIONAL BASE, BASE GROUP 04	951.01 SY	\$42.51	\$40,427.44
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	47.12 TN	\$188.86	\$8,899.08
337-7-83	ASPH CONC FC,TRAFFIC C,FC- 12.5,PG 76-22	34.27 TN	\$206.53	\$7,077.78
570-1-1	PERFORMANCE TURF	856.77 SY	\$6.88	\$5,894.58

## **Erosion Control**

## Pay Items

Pay item	Description	<b>Quantity Unit</b>	Unit Price Ext	ended Amount
104-10-3	SEDIMENT BARRIER	2,955.85 LF	\$3.32	\$9,813.42
104-11	FLOATING TURBIDITY BARRIER	24.34 LF	\$15.96	\$388.47
104-12	STAKED TURBIDITY BARRIER- NYL REINF PVC	24.34 LF	\$19.18	\$466.84
104-15	SOIL TRACKING PREVENTION DEVICE	1.00 EA	\$4,709.30	\$4,709.30
104-18	INLET PROTECTION SYSTEM	1.00 EA	\$192.13	\$192.13
107-1	LITTER REMOVAL	0.59 AC	\$57.63	\$34.00
107-2	MOWING	0.59 AC	\$88.49	\$52.21
	Shoulder Component Total			\$77,955.25

## **DRAINAGE COMPONENT**

Pay item	Description	<b>Quantity Unit</b>	Unit Price E	xtended Amount
430-174-124	PIPE CULV, OPT MATL, ROUND,24"SD	40.00 LF	\$278.89	\$11,155.60
430-175-136	PIPE CULV, OPT MATL, ROUND, 36"S/CD	16.00 LF	\$310.89	\$4,974.24
430-984-129	MITERED END SECT, OPTIONAL RD, 24" SD	3.00 EA	\$3,624.19	\$10,872.57
570-1-1	PERFORMANCE TURF	98.33 SY	\$6.88	\$676.51
	Drainage Component Total			\$27,678.92

## **SIGNING COMPONENT**

Pay Items				
Pay item	Description	<b>Quantity Unit</b>	Unit Price E	Extended Amount
700-1-111	SINGLE COL GRND SIGN AS, F&I GM, <12 SF	1.00 EA	\$533.45	\$533.45
700-1-112	SINGLE COL GRND SIGN AS, F&I GM, 12-20	5.00 EA	\$1,918.21	\$9,591.05
700-1-500	SINGLE COL GRND SIGN AS, RELOCATE	1.00 EA	\$348.10	\$348.10
700-1-600	SINGLE COL GRND SIGN AS, REMOVE	5.00 EA	\$58.36	\$291.80
700-2-113	MULTI- COLUMN SIGN, F&I GM, 20.1-30 SF	1.00 EA	\$6,727.35	\$6,727.35
700-2-600	MULTI- COLUMN GROUND SIGN, REMOVE	1.00 EA	\$1,238.78	\$1,238.78
	Signing Component Total			\$18,730.53

## LIGHTING COMPONENT

<b>Description</b> Multiplier (Nun	nber of Poles)			<b>Value</b> 5
Pay Items				
Pay item	Description	Quantity Uni	t Unit Price	Extended Amount
630-2-11	CONDUIT, F& I, OPEN TRENCH	1,000.00 LF	\$24.85	\$24,850.00
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24"	5.00 EA	\$1,708.32	\$8,541.60
715-1-13	LIGHTING CONDUCTORS, F&I, INSUL, NO.4-2	3,000.00 LF	\$6.55	\$19,650.00
715-61-442	LIGHT POLE CMPLT,STD,F&I, 45'MH,12'ARM L	5.00 EA	\$16,000.00	\$80,000.00
715-500-1	POLE CABLE DIST SYS, CONVENTIONAL	5.00 EA	\$1,175.12	\$5,875.60
	Subcomponent Total			\$138,917.20
	Lighting Component Total			\$138,917.20

Sequence 9 Total

\$385,603.54

Sequence: 10 WUR - Widen/Resurface, Undivided, Rural

Net Length:

0.113 MI
596 LF

**Description:** Ramp D - SB off three lane section

#### **EARTHWORK COMPONENT**

#### **User Input Data**

Description	Value
Standard Clearing and Grubbing Limits L/R	30.00 / 30.00
Incidental Clearing and Grubbing Area	0.00
Alignment Number	1
Distance	0.113
Top of Structural Course For Begin Section	102.00
Top of Structural Course For End Section	102.00
Horizontal Elevation For Begin Section	100.00
Horizontal Elevation For End Section	100.00
Existing Front Slope L/R	6 to 1 / 6 to 1
Existing Outside Shoulder Cross Slope L/R	6.00 % / 6.00 %
Front Slope L/R	6 to 1 / 6 to 1
Outside Shoulder Cross Slope L/R	6.00 % / 6.00 %
Roadway Cross Slope L/R	2.00 % / 2.00 %

#### Pay Items

Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	Extended Amount
110-1-1	CLEARING & GRUBBING	0.82 AC	\$61,068.42	\$50,076.10
120-2-2	BORROW EXCAVATION, TRUCK MEASURE	144.52 CY	\$53.86	\$7,783.85
	Earthwork Component Total			\$57,859.95

## **ROADWAY COMPONENT**

#### **User Input Data**

Description	Value
Number of Lanes	3
Existing Roadway Pavement Width L/R	24.00 / 24.00
Structural Spread Rate	165
Friction Course Spread Rate	80
Widened Outside Pavement Width L/R	0.00 / 12.00
Widened Structural Spread Rate	275
Widened Friction Course Spread Rate	165

## Pay Items

Pay item	Description	<b>Quantity Unit</b>	Unit Price E	xtended Amount
160-4	TYPE B STABILIZATION	2,119.51 SY	\$21.48	\$45,527.07
285-709	OPTIONAL BASE,BASE GROUP 09	816.67 SY	\$58.67	\$47,914.03
327-70-5	MILLING EXIST ASPH PAVT, 2" AVG DEPTH	3,179.26 SY	\$7.52	\$23,908.04
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	262.29 TN	\$188.86	\$49,536.09
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	109.29 TN	\$188.86	\$20,640.51
337-7-83	ASPH CONC FC,TRAFFIC C,FC- 12.5,PG 76-22	127.17 TN	\$206.53	\$26,264.42
337-7-83	ASPH CONC FC,TRAFFIC C,FC- 12.5,PG 76-22	65.57 TN	\$206.53	\$13,542.17

## **Pavement Marking Subcomponent**

Description	Value
Include Thermo/Tape/Other	N
Pavement Type	Asphalt
Solid Stripe No. of Paint Applications	2
Solid Stripe No. of Stripes	2
Skip Stripe No. of Paint Applications	2
Skip Stripe No. of Stripes	2

## Pay Items

Pay item	Description	<b>Quantity Unit</b>	Unit Price Ext	tended Amount
706-1-3	RAISED PAVMT MARK, TYPE B	61.00 EA	\$4.96	\$302.56
710-11-101	PAINTED PAVT MARK,STD,WHITE,SOLID,6"	0.45 GM	\$1,448.71	\$651.92
710-11-231	PAINTED PAVT MARK,STD,YELLOW,SKIP,6"	0.45 GM	\$820.00	\$369.00

## **Peripherals Subcomponent**

Description	Value
Off Road Bike Path(s)	0
Off Road Bike Path Width L/R	0.00 / 0.00
Bike Path Structural Spread Rate	0
Noise Barrier Wall Length	0.00
Noise Barrier Wall Begin Height	0.00
Noise Barrier Wall End Height	0.00

Roadway Component Total \$228,655.81

#### SHOULDER COMPONENT

## **User Input Data**

Description	Value
Existing Total Outside Shoulder Width L/R	6.00 / 6.00
New Total Outside Shoulder Width L/R	8.00 / 12.00
Total Outside Shoulder Perf. Turf Width L/R	4.00 / 2.00
Existing Paved Outside Shoulder Width L/R	0.00 / 0.00
New Paved Outside Shoulder Width L/R	4.00 / 10.00
Structural Spread Rate	110
Friction Course Spread Rate	80
Total Width (T) / 8" Overlap (O)	Т
Rumble Strips ï¿⅓No. of Sides	0

## Pay Items

Pay item	Description	<b>Quantity Unit</b>	Unit Price Ex	tended Amount
285-704	OPTIONAL BASE,BASE GROUP 04	971.00 SY	\$42.51	\$41,277.21
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	51.00 TN	\$188.86	\$9,631.86
337-7-83	ASPH CONC FC,TRAFFIC C,FC- 12.5,PG 76-22	37.09 TN	\$206.53	\$7,660.20
570-1-1	PERFORMANCE TURF	397.41 SY	\$6.88	\$2,734.18

## **Erosion Control**

## Pay Items

Pay item	Description	<b>Quantity Unit</b>	Unit Price Ex	tended Amount
104-10-3	SEDIMENT BARRIER	1,371.06 LF	\$3.32	\$4,551.92
104-11	FLOATING TURBIDITY BARRIER	11.29 LF	\$15.96	\$180.19
104-12	STAKED TURBIDITY BARRIER- NYL REINF PVC	11.29 LF	\$19.18	\$216.54

	Shoulder Component Total			\$71,192.98
107-2	MOWING	0.27 AC	\$88.49	\$23.89
107-1	LITTER REMOVAL	0.27 AC	\$57.63	\$15.56
104-18	INLET PROTECTION SYSTEM	1.00 EA	\$192.13	\$192.13
104-15	SOIL TRACKING PREVENTION DEVICE	1.00 EA	\$4,709.30	\$4,709.30

## **DRAINAGE COMPONENT**

Pay Items				
Pay item	Description	<b>Quantity Unit</b>	Unit Price Ex	tended Amount
430-174-124	PIPE CULV, OPT MATL, ROUND,24"SD	16.00 LF	\$278.89	\$4,462.24
430-175-136	PIPE CULV, OPT MATL, ROUND, 36"S/CD	8.00 LF	\$310.89	\$2,487.12
430-984-129	MITERED END SECT, OPTIONAL RD, 24" SD	2.00 EA	\$3,624.19	\$7,248.38
570-1-1	PERFORMANCE TURF	45.61 SY	\$6.88	\$313.80
	Drainage Component Total			\$14,511.54

#### **SIGNING COMPONENT**

Pay Items				
Pay item	Description	<b>Quantity Unit</b>	Unit Price E	Extended Amount
700-1-111	SINGLE COL GRND SIGN AS, F&I GM, <12 SF	1.00 EA	\$533.45	\$533.45
700-1-112	SINGLE COL GRND SIGN AS, F&I GM, 12-20	3.00 EA	\$1,918.21	\$5,754.63
700-1-500	SINGLE COL GRND SIGN AS, RELOCATE	1.00 EA	\$348.10	\$348.10
700-1-600	SINGLE COL GRND SIGN AS, REMOVE	3.00 EA	\$58.36	\$175.08
700-2-113	MULTI- COLUMN SIGN, F&I GM, 20.1-30 SF	1.00 EA	\$6,727.35	\$6,727.35
700-2-600	MULTI- COLUMN GROUND SIGN, REMOVE	1.00 EA	\$1,238.78	\$1,238.78
	Signing Component Total			\$14,777.39

## LIGHTING COMPONENT

Description				Value
Multiplier (Num	ber of Poles)			2
Pay Items				
Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
630-2-11	CONDUIT, F& I, OPEN TRENCH	400.00 LF	\$24.85	\$9,940.00
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24"	2.00 EA	\$1,708.32	\$3,416.64
715-1-13	LIGHTING CONDUCTORS, F&I, INSUL, NO.4-2	1,200.00 LF	\$6.55	\$7,860.00
715-61-442	LIGHT POLE CMPLT,STD,F&I, 45'MH,12'ARM L	2.00 EA	\$16,000.00	\$32,000.00
715-500-1	POLE CABLE DIST SYS, CONVENTIONAL	2.00 EA	\$1,175.12	\$2,350.24
	Subcomponent Total			\$55,566.88

Lighting Component Total	\$55,566.88
Sequence 10 Total	\$442,564.55

Sequence: 14 WDR - Widen/Resurface, Divided, Rural

Net Length: 0.814 MI 4,300 LF

Description: SR 52

## **EARTHWORK COMPONENT**

## **User Input Data**

<b>Description</b> Standard Clearing and Grubbing Limits L/R	<b>Value</b> 20.00 / 20.00
Incidental Clearing and Grubbing Area	0.00
Alignment Number	1
Distance	0.814
Top of Structural Course For Begin Section	102.00
Top of Structural Course For End Section	102.00
Horizontal Elevation For Begin Section	100.00
Horizontal Elevation For End Section	100.00
Existing Front Slope L/R	6 to 1 / 6 to 1
Existing Median Slope L/R	6 to 1 / 6 to 1
Existing Median Shoulder Cross Slope L/R	5.00 % / 5.00 %
Existing Outside Shoulder Cross Slope L/R	6.00 % / 6.00 %
Front Slope L/R	6 to 1 / 6 to 1
Median Slope L/R	6 to 1 / 6 to 1
Median Shoulder Cross Slope L/R	5.00 % / 5.00 %
Outside Shoulder Cross Slope L/R	6.00 % / 6.00 %
Roadway Cross Slope L/R	2.00 % / 2.00 %

## Pay Items

ray items				
Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
110-1-1	CLEARING & GRUBBING	3.95 AC	\$61,068.42	\$241,220.26
120-2-2	BORROW EXCAVATION, TRUCK MEASURE	526.89 CY	\$53.86	\$28,378.30
	Earthwork Component Total			\$269,598.56

#### **ROADWAY COMPONENT**

## **User Input Data**

Description	Value
Number of Lanes	6
Existing Roadway Pavement Width L/R	36.00 / 36.00
Structural Spread Rate	220
Friction Course Spread Rate	80
Widened Outside Pavement Width L/R	0.00 / 14.00
Widened Inside Pavement Width L/R	0.00 / 0.00
Widened Structural Spread Rate	330
Widened Friction Course Spread Rate	80

## Pay Items

Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
160-4	TYPE B STABILIZATION	15,289.00 SY	\$21.48	\$328,407.72
285-709	OPTIONAL BASE,BASE GROUP 09	6,846.61 SY	\$58.67	\$401,690.61
327-70-5	MILLING EXIST ASPH PAVT, 2" AVG DEPTH	34,400.26 SY	\$7.52	\$258,689.96
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	3,784.03 TN	\$188.86	\$714,651.91
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	1,103.67 TN	\$188.86	\$208,439.12

337-7-25	ASPH CONC FC,INC BIT,FC- 5,PG76-22	1,376.01 TN	\$247.36	\$340,369.83
337-7-25	ASPH CONC FC,INC BIT,FC- 5,PG76-22	267.56 TN	\$247.36	\$66,183.64

## **Pavement Marking Subcomponent**

Description	Value
Include Thermo/Tape/Other	N
Pavement Type	Asphalt
Solid Stripe No. of Paint Applications	2
Solid Stripe No. of Stripes	4
Skip Stripe No. of Paint Applications	2
Skip Stripe No. of Stripes	4

#### Pav Items

i uy itoillo				
Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
706-1-3	RAISED PAVMT MARK, TYPE B	550.00 EA	\$4.96	\$2,728.00
710-11-101	PAINTED PAVT MARK,STD,WHITE,SOLID,6"	6.52 GM	\$1,448.71	\$9,445.59
710-11-131	PAINTED PAVT MARK,STD,WHITE,SKIP, 6"	6.52 GM	\$598.83	\$3,904.37
	Roadway Component Total			\$2,334,510.75

## SHOULDER COMPONENT

## **User Input Data**

Description	Value
Existing Total Outside Shoulder Width L/R	8.00 / 10.00
New Total Outside Shoulder Width L/R	8.00 / 10.00
Total Outside Shoulder Perf. Turf Width L/R	4.00 / 5.00
Existing Paved Outside Shoulder Width L/R	0.00 / 0.00
New Paved Outside Shoulder Width L/R	4.00 / 5.00
Structural Spread Rate	110
Friction Course Spread Rate	80
Total Width (T) / 8" Overlap (O)	Т
Rumble Strips �No. of Sides	0

## Pay Items

Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
285-704	OPTIONAL BASE,BASE GROUP 04	4,615.37 SY	\$42.51	\$196,199.38
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	236.50 TN	\$188.86	\$44,665.39
337-7-25	ASPH CONC FC,INC BIT,FC- 5,PG76-22	172.00 TN	\$247.36	\$42,545.92
570-1-1	PERFORMANCE TURF	4,300.03 SY	\$6.88	\$29,584.21

## X-Items

Pay item	Description	<b>Quantity Unit</b>	Unit Price Ex	tended Amount
522-1	CONCRETE SIDEWALK AND DRIVEWAYS, 4"	3,469.00 SY	\$81.67	\$283,313.23

#### **Erosion Control**

## Pay Items

Pay item	Description	<b>Quantity Unit</b>	Unit Price Ex	tended Amount
104-10-3	SEDIMENT BARRIER	9,890.07 LF	\$3.32	\$32,835.03
104-11	FLOATING TURBIDITY BARRIER	81.44 LF	\$15.96	\$1,299.78

104-12	STAKED TURBIDITY BARRIER- NYL REINF PVC	81.44 LF	\$19.18	\$1,562.02
104-15	SOIL TRACKING PREVENTION DEVICE	1.00 EA	\$4,709.30	\$4,709.30
107-1	LITTER REMOVAL	5.92 AC	\$57.63	\$341.17
107-2	MOWING	5.92 AC	\$88.49	\$523.86
	Shoulder Component Total			\$637,579.29

## **MEDIAN COMPONENT**

User	Input	Data
------	-------	------

Description	Value
Total Median Width	40.00
Performance Turf Width	36.00
New Total Median Shoulder Width L/R	0.00 / 0.00
New Paved Median Shoulder Width L/R	0.00 / 0.00
Existing Total Median Shoulder Width L/R	0.00 / 0.00
Existing Paved Median Shoulder Width L/R	0.00 / 0.00
Structural Spread Rate	110
Friction Course Spread Rate	80
Total Width (T) / 8" Overlap (O)	Т
Rumble Strips �No. of Sides	0

## Pay Items

Description	Quantity Unit	Unit Price	Extended Amount
PERFORMANCE TURF	17,200.13 SY	\$6.88	\$118,336.89
Description	<b>Quantity Unit</b>	Unit Price	<b>Extended Amount</b>
CONCRETE CURB & GUTTER, TYPE F	1,164.00 LF	\$49.20	\$57,268.80
Comment: median curb and gutter (lt/rt)			
Median Component Total			\$175,605.69
	PERFORMANCE TURF  Description  CONCRETE CURB & GUTTER,  TYPE F  Comment: median curb and gutter (lt/rt)	PERFORMANCE TURF 17,200.13 SY  Description Quantity Unit  CONCRETE CURB & GUTTER, TYPE F  Comment: median curb and gutter (lt/rt)	PERFORMANCE TURF 17,200.13 SY \$6.88  Description Quantity Unit Unit Price CONCRETE CURB & GUTTER, TYPE F Comment: median curb and gutter (lt/rt) \$49.20

#### **DRAINAGE COMPONENT**

Pay Items				
Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
430-174-124	PIPE CULV, OPT MATL, ROUND,24"SD	656.00 LF	\$278.89	\$182,951.84
430-175-136	PIPE CULV, OPT MATL, ROUND, 36"S/CD	72.00 LF	\$310.89	\$22,384.08
430-984-129	MITERED END SECT, OPTIONAL RD, 24" SD	33.00 EA	\$3,624.19	\$119,598.27
570-1-1	PERFORMANCE TURF	573.34 SY	\$6.88	\$3,944.58

#### **Retention Basin 1**

Description		Value
Size		.5 AC
Multiplier		1
Depth		6.00
D	Francis description and	

Description Expand exist pond

## Pay Items

Pay item Description Quantity Unit Unit Price Extended Amount

110-1-1	CLEARING & GRUBBING	0.50 AC	\$27,000.00	\$13,500.00
120-1	REGULAR EXCAVATION	4,840.00 CY	\$104.30	\$504,812.00
425-1-541	INLETS, DT BOT, TYPE D, <10'	1.00 EA	\$11,392.37	\$11,392.37
425-2-71	MANHOLES, J-7, <10'	1.00 EA	\$12,151.00	\$12,151.00
430-175-142	PIPE CULV, OPT MATL, ROUND, 42"S/CD	56.00 LF	\$654.39	\$36,645.84
430-175-160	PIPE CULV, OPT MATL, ROUND, 60"S/CD	200.00 LF	\$612.49	\$122,498.00
550-10-220	FENCING, TYPE B, 5.1-6.0', STANDARD	600.00 LF	\$81.27	\$48,762.00
550-60-234	FENCE GATE,TYP B,SLIDE/CANT,18.1-20'OPEN	1.00 EA	\$5,256.99	\$5,256.99
570-1-1	PERFORMANCE TURF	2,420.00 SY	\$18.06	\$43,705.20
	Drainage Component Total			\$1,127,602.17

## **SIGNING COMPONENT**

Pay Items				
Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
700-1-111	SINGLE COL GRND SIGN AS, F&I GM, <12 SF	2.00 EA	\$533.45	\$1,066.90
700-1-112	SINGLE COL GRND SIGN AS, F&I GM, 12-20	20.00 EA	\$1,918.21	\$38,364.20
700-1-500	SINGLE COL GRND SIGN AS, RELOCATE	2.00 EA	\$348.10	\$696.20
700-1-600	SINGLE COL GRND SIGN AS, REMOVE	20.00 EA	\$58.36	\$1,167.20
700-2-114	MULTI- COLUMN SIGN, F&I GM, 30.1-50 SF	2.00 EA	\$8,985.18	\$17,970.36
700-2-600	MULTI- COLUMN GROUND SIGN, REMOVE	2.00 EA	\$1,238.78	\$2,477.56
X-Items				
Pay item	Description	<b>Quantity Unit</b>	Unit Price	<b>Extended Amount</b>
700-2-116	MULTI- COLUMN SIGN, F&I GM, 100.1-200 SF	4.00 EA	\$17,590.91	\$70,363.64
700-3-105	SIGN PANEL, F&I GM, 51-100 SF	4.00 EA	\$4,447.82	\$17,791.28
700-3-206	SIGN PANEL, F&I OM, 101-200 SF	2.00 EA	\$10,172.19	\$20,344.38
700-4-114	OH STATIC SIGN STR, F&I, C 41- 50 FT	2.00 EA	\$182,265.02	\$364,530.04
	Signing Component Total			\$534,771.76

## SIGNALIZATIONS COMPONENT

Signalization 1				
Description		Value	9	
Туре		6 Lane Mast Arn	n	
Multiplier		;	3	
Description				
Pay Items				
Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
630-2-11	CONDUIT, F& I, OPEN TRENCH	2,100.00 LF	\$24.85	\$52,185.00
630-2-12	CONDUIT, F& I, DIRECTIONAL BORE	900.00 LF	\$40.59	\$36,531.00

632-7-1	SIGNAL CABLE- NEW OR RECO, FUR & INSTALL	3.00 PI	\$13,923.07	\$41,769.21
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24"	66.00 EA	\$1,708.32	\$112,749.12
639-1-112	ELECTRICAL POWER SRV,F&I,OH,M,PUR BY CON	3.00 AS	\$7,134.25	\$21,402.75
639-2-1	ELECTRICAL SERVICE WIRE, F&I	180.00 LF	\$12.20	\$2,196.00
641-2-11	PREST CNC POLE,F&I,TYP P-II,PEDESTAL	3.00 EA	\$2,478.21	\$7,434.63
649-21-21	STEEL MAST ARM ASSEMBLY, F&I, 78'	18.00 EA	\$114,308.63	\$2,057,555.34
650-1-14	VEH TRAF SIGNAL,F&I ALUMINUM, 3 S 1 W	60.00 AS	\$1,917.46	\$115,047.60
653-1-11	PEDESTRIAN SIGNAL, F&I LED COUNT, 1 WAY	24.00 AS	\$1,277.10	\$30,650.40
660-1-102	LOOP DETECTOR INDUCTIVE, F&I, TYPE 2	60.00 EA	\$766.00	\$45,960.00
660-2-106	LOOP ASSEMBLY, F&I, TYPE F	60.00 AS	\$1,793.71	\$107,622.60
665-1-11	PEDESTRIAN DETECTOR, F&I, STANDARD	24.00 EA	\$449.78	\$10,794.72
670-5-111	TRAF CNTL ASSEM, F&I, NEMA, 1 PREEMPT	3.00 AS	\$49,929.96	\$149,789.88
700-3-101	SIGN PANEL, F&I GM, UP TO 12 SF	12.00 EA	\$294.26	\$3,531.12
	Signalizations Component Total			\$2,795,219.37

## LIGHTING COMPONENT

Rural Lightin	g Subcomponent			
Description				Value
Multiplier (Nur	mber of Poles)			40
Pay Items				
Pay item	Description	Quantity Unit	Unit Price	Extended Amount
630-2-11	CONDUIT, F& I, OPEN TRENCH	8,000.00 LF	\$24.85	\$198,800.00
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24"	40.00 EA	\$1,708.32	\$68,332.80
715-1-13	LIGHTING CONDUCTORS, F&I, INSUL, NO.4-2	24,000.00 LF	\$6.55	\$157,200.00
715-61-442	LIGHT POLE CMPLT,STD,F&I, 45'MH,12'ARM L	40.00 EA	\$16,000.00	\$640,000.00
715-500-1	POLE CABLE DIST SYS, CONVENTIONAL	40.00 EA	\$1,175.12	\$47,004.80
	Subcomponent Total			\$1,111,337.60
-	Lighting Component Total			\$1,111,337.60
Sequence 14	l Total			\$8,986,225.19

Sequence: 15 WUR - Widen/Resurface, Undivided, Rural

Net Length:

0.091 MI
478 LF

Description: Ramp B - NB off 5 lane section

#### **EARTHWORK COMPONENT**

#### **User Input Data**

<b>Description</b> Standard Clearing and Grubbing Limits L/R	<b>Value</b> 40.00 / 40.00
Incidental Clearing and Grubbing Area	0.00
Alignment Number	1
Distance	0.090
Top of Structural Course For Begin Section	102.00
Top of Structural Course For End Section	102.00
Horizontal Elevation For Begin Section	100.00
Horizontal Elevation For End Section	100.00
Existing Front Slope L/R	6 to 1 / 6 to 1
Existing Outside Shoulder Cross Slope L/R	6.00 % / 6.00 %
Front Slope L/R	6 to 1 / 6 to 1
Outside Shoulder Cross Slope L/R	6.00 % / 6.00 %
Roadway Cross Slope L/R	2.00 % / 2.00 %

#### Pay Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
110-1-1	CLEARING & GRUBBING	0.87 AC	\$61,068.42	\$53,129.53
120-2-2	BORROW EXCAVATION, TRUCK MEASURE	217.71 CY	\$53.86	\$11,725.86
	Earthwork Component Total			\$64,855.39

## **ROADWAY COMPONENT**

#### **User Input Data**

Description	Value
Number of Lanes	5
Existing Roadway Pavement Width L/R	18.00 / 18.00
Structural Spread Rate	165
Friction Course Spread Rate	80
Widened Outside Pavement Width L/R	12.00 / 12.00
Widened Structural Spread Rate	275
Widened Friction Course Spread Rate	165

# Pay Items

Pay item	Description	<b>Quantity Unit</b>	Unit Price E	xtended Amount
160-4	TYPE B STABILIZATION	2,336.11 SY	\$21.48	\$50,179.64
285-709	OPTIONAL BASE,BASE GROUP 09	1,309.28 SY	\$58.67	\$76,815.46
327-70-5	MILLING EXIST ASPH PAVT, 2" AVG DEPTH	1,911.36 SY	\$7.52	\$14,373.43
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	157.69 TN	\$188.86	\$29,781.33
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	175.21 TN	\$188.86	\$33,090.16
337-7-83	ASPH CONC FC,TRAFFIC C,FC- 12.5,PG 76-22	76.45 TN	\$206.53	\$15,789.22
337-7-83	ASPH CONC FC,TRAFFIC C,FC- 12.5,PG 76-22	105.12 TN	\$206.53	\$21,710.43

## **Pavement Marking Subcomponent**

Description	Value
Include Thermo/Tape/Other	N
Pavement Type	Asphalt
Solid Stripe No. of Paint Applications	2
Solid Stripe No. of Stripes	2
Skip Stripe No. of Paint Applications	2
Skip Stripe No. of Stripes	4

## Pay Items

Pay item	Description	<b>Quantity Unit</b>	Unit Price Ex	ctended Amount
706-1-3	RAISED PAVMT MARK, TYPE B	73.00 EA	\$4.96	\$362.08
710-11-101	PAINTED PAVT MARK,STD,WHITE,SOLID,6"	0.36 GM	\$1,448.71	\$521.54
710-11-231	PAINTED PAVT MARK,STD,YELLOW,SKIP,6"	0.72 GM	\$820.00	\$590.40

## **Peripherals Subcomponent**

Description	Value
Off Road Bike Path(s)	0
Off Road Bike Path Width L/R	0.00 / 0.00
Bike Path Structural Spread Rate	0
Noise Barrier Wall Length	0.00
Noise Barrier Wall Begin Height	0.00
Noise Barrier Wall End Height	0.00

Roadway Component Total

#### SHOULDER COMPONENT

# **User Input Data**

Description	Value
Existing Total Outside Shoulder Width L/R	6.00 / 6.00
New Total Outside Shoulder Width L/R	8.00 / 12.00
Total Outside Shoulder Perf. Turf Width L/R	4.00 / 2.00
Existing Paved Outside Shoulder Width L/R	0.00 / 0.00
New Paved Outside Shoulder Width L/R	4.00 / 10.00
Structural Spread Rate	110
Friction Course Spread Rate	80
Total Width (T) / 8" Overlap (O)	Т
Rumble Strips �No. of Sides	0

# Pay Items

Pay item	Description	<b>Quantity Unit</b>	Unit Price Ex	tended Amount
285-704	OPTIONAL BASE, BASE GROUP 04	778.35 SY	\$42.51	\$33,087.66
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	40.88 TN	\$188.86	\$7,720.60
337-7-83	ASPH CONC FC,TRAFFIC C,FC- 12.5,PG 76-22	29.73 TN	\$206.53	\$6,140.14
570-1-1	PERFORMANCE TURF	318.56 SY	\$6.88	\$2,191.69

## **Erosion Control**

## Pay Items

Pay item	Description	<b>Quantity Unit</b>	Unit Price E	xtended Amount
104-10-3	SEDIMENT BARRIER	1,099.03 LF	\$3.32	\$3,648.78
104-11	FLOATING TURBIDITY BARRIER	9.05 LF	\$15.96	\$144.44
104-12	STAKED TURBIDITY BARRIER- NYL REINF PVC	9.05 LF	\$19.18	\$173.58

\$243,213.69

104-15	SOIL TRACKING PREVENTION DEVICE	1.00 EA	\$4,709.30	\$4,709.30
104-18	INLET PROTECTION SYSTEM	1.00 EA	\$192.13	\$192.13
107-1	LITTER REMOVAL	0.22 AC	\$57.63	\$12.68
107-2	MOWING	0.22 AC	\$88.49	\$19.47
	Shoulder Component Total			\$58,040.47

#### **DRAINAGE COMPONENT**

Pay Items				
Pay item	Description	<b>Quantity Unit</b>	Unit Price Ex	tended Amount
430-174-124	PIPE CULV, OPT MATL, ROUND,24"SD	16.00 LF	\$278.89	\$4,462.24
430-175-136	PIPE CULV, OPT MATL, ROUND, 36"S/CD	8.00 LF	\$310.89	\$2,487.12
430-984-129	MITERED END SECT, OPTIONAL RD, 24" SD	1.00 EA	\$3,624.19	\$3,624.19
570-1-1	PERFORMANCE TURF	36.56 SY	\$6.88	\$251.53
	Drainage Component Total			\$10,825.08

#### **SIGNING COMPONENT**

Pay Items				
Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	Extended Amount
700-1-111	SINGLE COL GRND SIGN AS, F&I GM, <12 SF	1.00 EA	\$533.45	\$533.45
700-1-112	SINGLE COL GRND SIGN AS, F&I GM, 12-20	2.00 EA	\$1,918.21	\$3,836.42
700-1-500	SINGLE COL GRND SIGN AS, RELOCATE	1.00 EA	\$348.10	\$348.10
700-1-600	SINGLE COL GRND SIGN AS, REMOVE	2.00 EA	\$58.36	\$116.72
700-2-113	MULTI- COLUMN SIGN, F&I GM, 20.1-30 SF	1.00 EA	\$6,727.35	\$6,727.35
700-2-600	MULTI- COLUMN GROUND SIGN, REMOVE	1.00 EA	\$1,238.78	\$1,238.78
	Signing Component Total			\$12,800.82

## LIGHTING COMPONENT

Description Multiplier (Num Pay Items	nber of Poles)			<b>Value</b> 2
Pay item	Description	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
630-2-11	CONDUIT, F& I, OPEN TRENCH	400.00 LF	\$24.85	\$9,940.00
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24"	2.00 EA	\$1,708.32	\$3,416.64
715-1-13	LIGHTING CONDUCTORS, F&I, INSUL, NO.4-2	1,200.00 LF	\$6.55	\$7,860.00
715-61-442	LIGHT POLE CMPLT,STD,F&I, 45'MH,12'ARM L	2.00 EA	\$16,000.00	\$32,000.00
715-500-1	POLE CABLE DIST SYS, CONVENTIONAL	2.00 EA	\$1,175.12	\$2,350.24
	Subcomponent Total			\$55,566.88

Lighting Component Total	\$55,566.88
Sequence 15 Total	\$445,302.33

Sequence: 16 MIS - Miscellaneous Construction

Net Length:

0.000 MI
0 LF

**Description:** Landscaping

LANDSCAPING COMPONENT

User Input Data

 Description
 Value

 Lump Sum
 1,646,418.00

 Cost %
 0.00

 Component Detail
 N

Landscaping Component Total \$1,646,418.00

**Sequence 16 Total** \$1,646,418.00

Sequence: 17 MIS - Miscellaneous Construction

Net Length:

0.000 MI
0 LF

Description: ITS

•

**MISCELLANEOUS COMPONENT** 

**EX-Items** 

Pay item Description Quantity Unit Unit Price Extended Amount

ITS ITS, MOC, 4% OF SUBTOTAL 1.00 1 \$658,566.70 \$658,566.70

Miscellaneous Component Total \$658,566.70

**Sequence 17 Total** \$658,566.70

Sequence: 18 MIS - Miscellaneous Construction Net Length:  $0.000 \text{ MI} \\ 0 \text{ LF}$ 

**Description:** 25% Unknown

**MISCELLANEOUS COMPONENT** 

**EX-Items** 

Pay itemDescriptionQuantity UnitUnit PriceExtended Amount25% UNKNOWN FOR INFLATION1.00 1\$4,813,300.00\$4,813,300.00

Miscellaneous Component Total \$4,813,300.00

**Sequence 18 Total** \$4,813,300.00

Date: 2/12/2025 9:30:24 AM

# FDOT Long Range Estimating System - Production R3: Project Details by Sequence Report

**Project:** 448068-1-22-01 **Letting Date:** 01/2099

Description: PD&E WIDEN SUNCOAST PKWY(SR589) - S OF VAN DYKE RD TO SR52 (MP13-29)

District: 08 County: 97 TURNPIKE Market Area: 99 Units: English

Contract Class: 3 Lump Sum Project: N Design/Build: N Project Length: 15.979 MI

Project Manager: SHARMA

Version 14 Project Grand Total \$25,123,436.22

Description: SR 52

Project Sequences Subtotal			\$20,639,203.49
102-1	Maintenance of Traffic	10.00 %	\$2,063,920.35
101-1	Mobilization	10.00 %	\$2,270,312.38
Project Sequences Total		\$24,973,436.22	
Project Unknowns		0.00 %	\$0.00
Design/Bui	ld	0.00 %	\$0.00

**Non-Bid Components:** 

Pay itemDescriptionQuantity UnitUnit PriceExtended Amount999-25INITIAL CONTINGENCY AMOUNT<br/>(DO NOT BID)LS\$150,000.00\$150,000.00Project Non-Bid Subtotal\$150,000.00

Version 14 Project Grand Total \$25,123,436.22