

October 2023



Florida Department of Transportation – District One

Technical Scope and LRE

**Technical Scope, Scope Analysis for Social and Environmental
Issues, and Long Range Estimate (LRE) for**

FPID 453560-1-52-01

SR 93 / US 19 / I-275 from N of US 19 to N of Toll Plaza

Manatee County, Florida



Candidate Project RRR Scope

To: Lavenia Toole, PE
 From: Felicia Pannell, PE

October 3, 2023

RE: SR 93 / US 19 / I-275 N of US 19 to N of Toll Plaza TECHNICAL SCOPE

State Road Number: SR 93 / US 19 / I-275
 Section Number: 13130-000
 County: Manatee County
 Project Limits: SR 93 / US 19 / I-275 from N of US 19 to N of Toll Plaza
 Begin MP/End MP: 9.194 to 10.005
 Project Length: 0.811 miles
 FPID No.: 453560-1
 Work Mix: 0012 (Resurfacing)

1. Existing R/W Map Project Numbers:	13175-2402 (1970-1979), 13130-2507 (1960-1969), 1517/1313 Skyway Bridge (1950-1964)
2. Old Construction Project Numbers:	420238-1 (2009) RRR MP 9.164 to MP 11.982
3. Proposed projects within the same limits (such as safety, sidewalk or drainage projects):	N/A
4. Adjacent Projects:	420241-1 (2009) RRR MP 3.884 to MP 5.233 13175 404035-1 (2003) RRR MP 6.114 to MP 8.510 417241-1 (2007) RRR MP 8.483 to MP 9.194 429151-1 (2014) RRR MP 0.000 to MP 0.526 13130402 449120-1 (2025) POP MP 8.472 to MP 9.194
5. Additional R/W Required?	No
6. Level of Community Awareness Plan:	Level 1
7. Are there any bridges within the limits?	No
8. Are there any RR Crossings within the project limits or in the vicinity?	No
9. Are there any Airports within 5-miles?	No
10. Storm Water Management Jurisdiction:	Southwest Florida Water Management District
11. AADT:	70,500 AADT (2022); Truck %= 7.8
12. Are there any old houses or buildings adjacent to the project?	No
13. Number of Existing Utilities:	4 Utilities: FP&L – Electric; Fronter – CATV, Comm Lines; Manatee County – Lights, Signals, Reclaimed Water, Sewer, Water; Transcore – Electric, Fiber
14. Any Special MOT concerns?	Yes – Toll Plaza within project limits
15. Any Construction concerns?	Yes – Toll Plaza within project limits
16. Posted/Design Speed Limits:	420238-1 (2009) Design/Posted Speed 70 mph
17. SIS Facility?/Context Classification:	Yes / LA – Limited Access

The purpose of candidate project scope is to support the development of a long-range estimate (LRE) within the 5-year work program. There are a significant amount of planning assumptions made in order to develop and process the LRE. The district design project manager and engineer are responsible for verifying all items in the scope and shall review the project for conformance with all applicable criteria and standards. The Design Project Manager shall be notified of any proposed deviations from the scope. The Design Project Manager shall coordinate the proposed deviations with the scoping team and the District Roadway Design Engineer for approval.

Project Location Map:



Intent and Nature of Project:

This is a Resurfacing, Restoration, and Rehabilitation (RRR) project that is intended to extend the service life of the existing roadway. This project was identified as a result of deficient pavement conditions noted in the 2022 Pavement Condition Survey. Additional improvements to this roadway shall adhere to the standards set forth in the 2023 FDOT Design Manual (FDM).

Project Abstract

Milling and resurfacing on SR 93 / US 19 / I-275 from N of US 19 to N of toll plaza.

Project Description:

- This is a RRR project. Mill and resurface existing roadway and paved shoulders. Mill and resurface existing ramps within project limits. Update and replace existing guardrail as needed within project limits.

- Northbound and Southbound: Begin the project at MP 9.194, at the junction of US 19 and I-275. Then, proceed northbound for 0.811 miles to MP 10.005, north of the Skyway toll plaza. The exact project limits will need to be confirmed during design. The intent is that the beginning of FPID 453560-1-52-01 will connect to the end of FPID 453561-1-52-01.
- The typical section varies from two (2) to four (4) 12 ft wide travel lanes southbound and two (2) to six (6) 12 ft wide travel lanes northbound. The outside shoulder width is 12 ft (9 ft to 12 ft paved). The inside shoulder width is 12 ft (2 ft to 12 ft paved). There is a variable width (41 ft min.) grassed median throughout most of the project and a 30' width paved median in the vicinity of the toll plaza.
- There are two (2) ramps at the US 19 and I-275 junction at approximate MP 9.194. However, the intent at this time is to include the ramp milling and resurfacing in a separate project. A 4P scope has been prepared under FPID 449120-1 for the NB US 19 ramp. Consideration may be given during design to making these goes/with projects.
- This project will be contained within the existing right-of-way limits.
- The existing posted speed is 65 miles per hour (mph) and design speed is 70 miles per hour (mph).
- Please advise District Landscape Architect if there is found to be impacts to existing landscaping; especially for on-ramps or off-ramps at interchanges.



Begin Project MP 9.194 SLD 13130.000
Southbound, looking north



Begin Project MP 9.194 SLD 13130.000
Northbound, looking north



End Project MP 10.005 SLD 13130.000
Southbound, looking south



End Project MP 10.005 SLD 13130.000
Northbound, looking south

Roadway Scope Items:

- The 2023 FDOT Design Manual was used to develop this scope report as well as the Florida Department of Transportation (FDOT) 2023-24 Standard Plans for Road and Bridge Construction and the 2023 FDOT Flexible Pavement Design Manual (FPDM)
- The existing roadway components include only vehicular elements. Pedestrian and bicycle elements are not present on interstate system.
- Pavement Condition Assessment had not been completed by the Florida Department of Transportation (FDOT) at the time of this report. It is recommended that flexible pavement be used for rehabilitation. For the Long Range Estimate (LRE) assume the project begins at the junction of US 19 and I-275 at MP 9.194, then proceeds north for 0.811 miles to north of the Skyway toll plaza at MP 10.005.
- **Mainline Travel Lane and Shoulder Pavement:** For budget purposes, the LRE assumes the mainline travel lanes throughout the project limits should be milled 3 ¾" and resurfaced with 3"

Type SP-12.5 (Traffic E, PG 76-22) and $\frac{3}{4}$ " FC-5 (PG 76-22). Existing paved shoulders will be milled 2 $\frac{1}{4}$ " and resurfaced with 1 $\frac{1}{2}$ " FC-12.5 (Traffic E, PG 76-22). The inside and outside shoulders will have 8" overlap of $\frac{3}{4}$ " FC-5 (PG 76-22) pavement. The shoulders will also have ground in rumble strips. Limits of milling and resurfacing include all travel lanes and shoulders. Limits are to be confirmed during the design phase.

- FDOT will provide the Pavement Coring Report, ESAL calculations and Resilient Modulus Values for further analysis. The project designer will prepare the Pavement Design Package per FPDM. Any pavement design used in this scope evaluates old as-built information and is used for budget purposes only.
- This section of roadway was milled and resurfaced in 2009 under FM Project 420238-1-52-01. The cross slopes were resurfaced to 0.02 cross slope. It is recommended that the project manager re-evaluate the existing cross slopes during the plans preparation period to determine if cross slope corrections will be required.
- **Horizontal Curves/Superelevation:** There are two (2) existing horizontal curves within the project limits as shown on SLD 13130000. No superelevation is required for these curves as shown in FDM Table 210.9.1. Curves as shown in the SLD:
 - PI=9.466, D=0°19', $\Delta=3^{\circ}29'48''$
 - PI=9.644, D=0°20', $\Delta=3^{\circ}29'48''$
- **Ramp Limits and Pavement:** The following ramps are within the project limits at the US 19 interchange:
 - # 13175000, MP 9.194, US 19 / I-275 SB to US 19 SB, 2-lane ramp.
 - # 13175000, MP 9.194, US 19 NB to US 19 / I-275 NB, 2-lane ramp.

The intent at this time is to resurface the ramps in a separate project. Resurfacing will only be needed up to the gore points NB and SB. Limits of ramp milling and resurfacing are to be confirmed during the design phase.

- **Guardrail:** There is existing guardrail within the project limits that is to be evaluated for condition and replaced as needed. For budget purposes, the LRE assumes all guardrail to be replaced. All End Anchorage Assemblies are to be brought into compliance to meet current Standard Plans Index 536-001 and 536-002. Listed below is the location and approximate length of guardrail:
 - There is existing double-face guardrail along the median shoulder of the southbound roadway:
 - From Begin Project MP 9.194 to the emergency crossover at MP 9.522 (1850 ft).
 - From the emergency crossover at MP 9.522 to the existing concrete barrier wall south of the toll plaza at approximate MP 9.651 (650 ft).
 - From the existing concrete barrier wall north of the toll plaza at approximate MP 9.873 to the End Project MP 10.005 (700 ft).
 - Northbound Roadside Guardrail:
 - At the outside shoulder to shield overhead sign structure, approximate MP 9.254 to 9.292, (200 ft).
 - At the outside shoulder to shield overhead sign structure, approximate MP 9.508 to 9.546, (200 ft).
 - At the outside shoulder to shield overhead sign structure, approximate MP 9.254 to 9.292, (200 ft).
 - Southbound Roadside Guardrail:
 - At the outside shoulder to shield overhead sign structure, approximate MP 9.280 to 9.323, (200 ft).
 - At the outside shoulder to shield overhead sign structure and drop off,

approximate MP 9.672 to 9.885, (900 ft).

- **Emergency Vehicle Crossover:** There is one paved emergency vehicle cross over located at approximate MP 9.522.

Toll Booth:

- There is an existing toll booth within the project limits at MP 9.785.
- Coordination with Turnpike Enterprise is recommended for work in the vicinity of the toll plaza.
- It was assumed for estimating purposes that the roadway would be milled and resurfaced through the toll plaza.

Traffic Monitoring Sites:

- There are no existing traffic monitoring sites within the project limits.

Access Management:

- The interstate is limited access right-of-way so there is no access management anticipated.

Multi-Modal transportation Scope Items:

- None

Rail Road Crossings:

- There are no existing railroad crossings within the project limits.

Design Variation/Exception:

- No design variations or exceptions are anticipated for this project.

Drainage Scope Items:

The existing drainage consists of an open system with ditch conveyance of roadway runoff and minor shoulder gutter storm drain at bridges ramps. The project generally consists of milling and resurfacing with some guardrail replacement. There are no sidewalk or bicycles within Interstate. There are locations where the front slope of road embankment will need reshaping. Some areas along the project have linear stormwater facilities. If reshaping impacts these facilities, the volume will need to be replaced. Some high fill areas have 2:1 slopes that need to be revisited to ensure that no erosion is occurring. In areas where cable barrier may need to be replaced, sufficient positive drainage will need to be addressed. The project may need cross slope correction requiring the hydroplaning to be analyzed. There are no apparent drainage issues, however, include a rainy day visit to determine drainage facilities are functioning correctly.

- All drainage structure end treatment is outside the clear zone or protected by guard rail for the entire project.

Permitting/Environmental Scope Items:

- Coordinate with FDOT for determination of Environmental Permits for review and concurrence during the design process, considering the below descriptions of work and conditions;
 - Conduct an on-site environmental assessment including wetland delineation.
 - Records indicate that rare species or suitable habitat may exist within or near the project limits. For additional information please see the attached Scope Analysis for Social and Environment Issues.

- This project is anticipated to exceed one acre of soil disturbing activities and will require NPDES coverage under the FDEP Generic Permit for Stormwater Discharge from Large and Small Construction Activities.
- This project is anticipated to be exempt from WMD permitting under FAC 62-330.051 (4)(c), as it is limited to pavement resurfacing and safety modifications. A permit exemption request will be needed.

Utility Scope Items:

- Utility coordination will be required to determine if adjustments are necessary to ensure there are no conflicts with the proposed construction.
- SUE at guardrail and multi-post signs as needed.

Signing Scope Items:

- All existing signing should be evaluated for possible replacement to ensure signs meet current design criteria for size, placement, and reflectivity. See FDOT Standard Plans, FDOT Design Manual (FDM), Traffic Engineering Manual (TEM), and/or Manual on Uniform Traffic Control Devices (MUTCD) for guidelines.
- There are five existing two-column signs within the project limits (see photos following). All should be evaluated with regard to condition, reflectivity, and placement. Replace if required. See Chapter 2.37 of the TEM and “Condition A” of Table 2c-4 of the MUTCD for guidelines. Four of these signs are advance signs for the toll plaza, and one is a warning sign for southbound I-275 approaching the US 19 interchange. It appears the second sign shown in the following photos had been removed at the time of the on-screen photo for Google. It may have been removed permanently and replaced by the third sign shown following. Both include toll charge information.

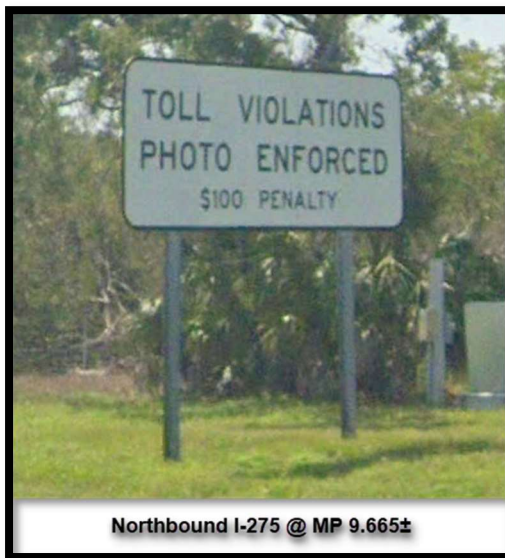




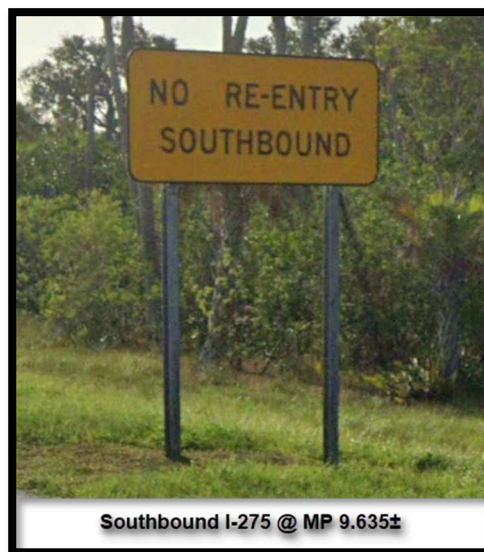
**Northbound I-275 @ MP 9.480±
(Sign Missing in June 2023 Photo)**



Northbound I-275 @ MP 9.620±



Northbound I-275 @ MP 9.665±



Southbound I-275 @ MP 9.635±

- There are three overhead sign structures within the project, with a total of ten sign panels attached. Evaluate sign panels for possible replacement. If replaced, an ancillary structural evaluation should be requested from the District Structures office to ensure the structures may be reused. If the structures fail the evaluation, they should be replaced.



**Structure #1: I-275 @ MP 9.280±
Sign for Northbound Traffic**



Pavement Marking Scope Items:

- Restripe roadway per current Standard Plans, FDM, and MUTCD.
- Use permanent tape for 6" White, 8" White, and 6" Yellow markings on concrete surfaces through toll plaza.

- Use standard thermoplastic for all 12" white crosswalk markings, 18" chevrons, 24" stop lines, messages/symbols, and arrows.
- Use standard (open grade) thermoplastic for all other markings within this project.
- Use 16" ground-in rumble strips on shoulder and median edges.

Object Marker and Delineator Scope Items:

- Evaluate the condition of all existing object markers within the project. Replace if needed.
- Replace flexible delineators at the entrances and exits of the toll plaza.

Lighting Scope Items:

- Lighting is not expected as part of this project.

Geotechnical Scope Items:

- Geotechnical exploration is needed for drainage, signing and lighting structures on this project.

Structural Scope Items:

- No structural issues are anticipated for structures located within the project limits.
- Per section 261.8 of the FDM, an Ancillary Structures Report shall be provided for all existing overhead and cantilever signs, signal, HMLP lighting and ITS support structures within the project limits.

Right-of-Way Scope Items:

- ROW impacts are not expected on this project.

Survey Required:

- Obtain 3D survey prior to beginning design.

FDOT Long Range Estimating System - Production

R3: Project Details by Sequence Report

Project: 453560-1-52-01

Letting Date: 07/2026

Description: I-275 FROM N OF US 19 TO N OF TOLL PLAZA

District: 01 **County:** 13 MANATEE

Market Area: 10 **Units:** English

Contract Class: 1 **Lump Sum Project:** N

Design/Build: N **Project Length:** 0.811 MI

Project Manager: JMK-

Version 3-P Project Grand Total

\$3,828,221.47

Description: Reduced Percentages (5/5/5) per Management from Version 1P - 9/15/23; Updated Signing quantities - 9-27-2023.

Sequence: 1 RSD - Resurfacing, Divided

Net Length: 0.456 MI
2,408 LF

Description: Milling & Resurfacing Mainline MP 9.194 to MP 9.650 - 3-lane EB and 4-lane WB

ROADWAY COMPONENT

User Input Data

Description	Value
Number of Lanes	6
Roadway Pavement Width L/R	36.00 / 48.00
Structural Spread Rate	330
Friction Course Spread Rate	80

Pay Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
327-70-20	MILLING EXIST ASPH PAVT,3 3/4" AVG DEPTH	22,471.68 SY	\$4.51	\$101,347.28
334-1-55	SUPERPAVE ASPH CONC, TRAF E, PG76-22	3,707.83 TN	\$153.37	\$568,669.89
337-7-25	ASPH CONC FC,INC BIT,FC-5,PG76-22	898.87 TN	\$193.85	\$174,245.95

X-Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
339-1	MISCELLANEOUS ASPHALT PAVEMENT	78.00 TN	\$370.42	\$28,892.76
536-1-1	GUARDRAIL- ROADWAY, GEN TL-3	425.00 LF	\$29.06	\$12,350.50
536-1-3	GUARDRAIL- ROADWAY, DOUBLE FACE	2,500.00 LF	\$41.13	\$102,825.00
536-8-122	GUARDRA CONN TO RIGID BA, F&I, APP E3	1.00 EA	\$4,951.40	\$4,951.40
536-73	GUARDRAIL REMOVAL	2,275.00 LF	\$3.64	\$8,281.00
536-85-20	GUARDRAIL END TREAT- TRAILING ANCHORAGE	2.00 EA	\$1,770.93	\$3,541.86
536-85-24	GUARDRAIL END TREATMENT- PARA APP TERM	2.00 EA	\$3,623.27	\$7,246.54
536-85-27	GUARDRAIL END TREAT- DOUB FACE APPR TER	3.00 EA	\$11,640.77	\$34,922.31
546-72-1	GROUND-IN RUMBLE STRIPS, 16"	0.60 GM	\$1,152.91	\$691.75
706-1-3	RAISED PAVMT MARK, TYPE B	60.00 EA	\$3.78	\$226.80
710-11-102	PAINTED PAVT MARK,STD,WHITE,SOLID,8"	0.50 GM	\$1,375.93	\$687.96

710-11-124	PAINTED PAVT MARK,STD,WHITE,SOLID, 18"	600.00 LF	\$1.13	\$678.00
710-11-160	PAINTED PAVT MARK,STD,WHITE, MESSAGE	24.00 EA	\$37.97	\$911.28
710-11-170	PAINTED PAVT MARK,STD,WHITE, ARROWS	2.00 EA	\$34.49	\$68.98
710-11-201	PAINTED PAVT MARK,STD,YELLOW,SOLID,6"	1.00 GM	\$1,117.94	\$1,117.94
711-11-124	THERMOPLASTIC, STD, WHITE, SOLID, 18"	600.00 LF	\$5.01	\$3,006.00
711-11-160	THERMOPLASTIC, STD, WHITE, MESSAGE	24.00 EA	\$127.43	\$3,058.32
711-11-170	THERMOPLASTIC, STD, WHITE, ARROW	2.00 EA	\$61.61	\$123.22
711-15-102	THERMOPLASTIC, STD-OP, WHITE, SOLID, 8"	0.50 GM	\$8,714.74	\$4,357.37
713-103-101	PERMANENT TAPE, WHITE,SOLID,6" CONC BR	0.21 GM	\$42,643.83	\$8,955.20
713-103-102	PERM TAPE, WHITE, S, 8" EXIT CONC PAVMT	0.10 GM	\$38,580.85	\$3,858.08
713-103-201	PERMANENT TAPE, YELLOW,SOLID,6" CONC BR	0.05 GM	\$42,643.83	\$2,132.19

Pavement Marking Subcomponent

Description	Value
Include Thermo/Tape/Other	Y
Pavement Type	Asphalt
Solid Stripe No. of Paint Applications	1
Solid Stripe No. of Stripes	3
Skip Stripe No. of Paint Applications	1
Skip Stripe No. of Stripes	4

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
706-1-3	RAISED PAVMT MARK, TYPE B	308.00	EA	\$3.78	\$1,164.24
710-11-101	PAINTED PAVT MARK,STD,WHITE,SOLID,6"	1.37	GM	\$1,117.30	\$1,530.70
710-11-131	PAINTED PAVT MARK,STD,WHITE,SKIP, 6"	1.82	GM	\$498.41	\$907.11
711-15-101	THERMOPLASTIC, STD-OP, WHITE, SOLID, 6"	1.37	GM	\$6,643.52	\$9,101.62
711-15-131	THERMOPLASTIC, STD-OP, WHITE, SKIP, 6"	1.82	GM	\$1,767.13	\$3,216.18
711-15-201	THERMOPLASTIC, STD- OP,YELLOW, SOLID, 6"	1.37	GM	\$6,324.64	\$8,664.76
Roadway Component Total					\$1,101,732.21

SHOULDER COMPONENT

User Input Data

Description	Value
Total Outside Shoulder Width L/R	13.00 / 13.00
Total Outside Shoulder Perf. Turf Width L/R	2.67 / 2.67
Paved Outside Shoulder Width L/R	10.00 / 10.00
Structural Spread Rate	165
Friction Course Spread Rate	80
Total Width (T) / 8" Overlap (O)	O
Rumble Strips ½No. of Sides	2

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
327-70-6	MILLING EXIST ASPH PAVT,1 1/2" AVG DEPTH	5,350.40	SY	\$4.04	\$21,615.62
334-1-55	SUPERPAVE ASPH CONC, TRAF E, PG76-22	441.41	TN	\$153.37	\$67,699.05
337-7-25	ASPH CONC FC,INC BIT,FC-5,PG76-22	14.13	TN	\$193.85	\$2,739.10
546-72-1	GROUND-IN RUMBLE STRIPS, 16"	0.91	GM	\$1,152.91	\$1,049.15
570-1-1	PERFORMANCE TURF	1,428.56	SY	\$5.19	\$7,414.23

Erosion Control**Pay Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
104-11	FLOATING TURBIDITY BARRIER	45.60	LF	\$13.02	\$593.71
104-12	STAKED TURBIDITY BARRIER-NYL REINF PVC	45.60	LF	\$4.82	\$219.79
107-1	LITTER REMOVAL	3.32	AC	\$86.81	\$288.21
107-2	MOWING	3.32	AC	\$95.60	\$317.39
Shoulder Component Total					\$101,936.25

MEDIAN COMPONENT**User Input Data**

Description	Value
Total Median Width	40.00
Performance Turf Width	5.34
Total Median Shoulder Width L/R	13.00 / 13.00
Paved Median Shoulder Width L/R	10.00 / 10.00
Structural Spread Rate	165
Friction Course Spread Rate	80
Total Width (T) / 8" Overlap (O)	0
Rumble Strips 1/2 No. of Sides	2

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
327-70-6	MILLING EXIST ASPH PAVT,1 1/2" AVG DEPTH	5,350.40	SY	\$4.04	\$21,615.62
334-1-55	SUPERPAVE ASPH CONC, TRAF E, PG76-22	441.41	TN	\$153.37	\$67,699.05
337-7-25	ASPH CONC FC,INC BIT,FC-5,PG76-22	14.13	TN	\$193.85	\$2,739.10
546-72-1	GROUND-IN RUMBLE STRIPS, 16"	1.00	GM	\$1,152.91	\$1,152.91
570-1-1	PERFORMANCE TURF	1,428.56	SY	\$5.19	\$7,414.23
Median Component Total					\$100,620.91

SIGNING COMPONENT**Pay Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
700-1-12	SINGLE POST SIGN, F&I GM, 12-20 SF	3.00	AS	\$1,391.90	\$4,175.70
700-1-60	SINGLE POST SIGN, REMOVE	3.00	AS	\$32.97	\$98.91

700-2-14	MULTI- POST SIGN, F&I GM, 31-50 SF	1.00 AS	\$6,455.77	\$6,455.77
700-2-60	MULTI- POST SIGN, REMOVE	3.00 AS	\$861.96	\$2,585.88

X-Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
700-2-13	MULTI- POST SIGN, F&I GM, 21-30 SF	1.00 AS	\$4,850.71	\$4,850.71
700-2-15	MULTI- POST SIGN, F&I GM, 51-100 SF	1.00 AS	\$7,323.57	\$7,323.57
705-10-2	OBJECT MARKER, TYPE 2	5.00 EA	\$278.99	\$1,394.95
Signing Component Total				\$26,885.49

Sequence 1 Total **\$1,331,174.86**

Sequence: 2 RSD - Resurfacing, Divided

Net Length: 0.355 MI
1,874 LF

Description: Milling & Resurfacing Mainline MP 9.650 to MP 10.005 - 2-lane EB and 4-lane WB

ROADWAY COMPONENT

User Input Data

Description	Value
Number of Lanes	6
Roadway Pavement Width L/R	24.00 / 48.00
Structural Spread Rate	330
Friction Course Spread Rate	80

Pay Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
327-70-20	MILLING EXIST ASPH PAVT,3 3/4" AVG DEPTH	14,995.20 SY	\$4.51	\$67,628.35
334-1-55	SUPERPAVE ASPH CONC, TRAF E, PG76-22	2,474.21 TN	\$153.37	\$379,469.59
337-7-25	ASPH CONC FC,INC BIT,FC-5,PG76-22	599.81 TN	\$193.85	\$116,273.17

X-Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
339-1	MISCELLANEOUS ASPHALT PAVEMENT	63.00 TN	\$370.42	\$23,336.46
536-1-1	GUARDRAIL- ROADWAY, GEN TL-3	1,125.00 LF	\$29.06	\$32,692.50
536-1-3	GUARDRAIL- ROADWAY, DOUBLE FACE	700.00 LF	\$41.13	\$28,791.00
536-8-122	GUARDRA CONN TO RIGID BA, F&I, APP E3	1.00 EA	\$4,951.40	\$4,951.40
536-73	GUARDRAIL REMOVAL	1,825.00 LF	\$3.64	\$6,643.00
536-85-20	GUARDRAIL END TREAT-TRAILING ANCHORAGE	1.00 EA	\$1,770.93	\$1,770.93
536-85-24	GUARDRAIL END TREATMENT-PARA APP TERM	1.00 EA	\$3,623.27	\$3,623.27
706-1-3	RAISED PAVMT MARK, TYPE B	224.00 EA	\$3.78	\$846.72
710-11-102	PAINTED PAVT MARK,STD,WHITE,SOLID,8"	0.75 GM	\$1,375.93	\$1,031.95
710-11-123	PAINTED PAVT MARK,STD,WHITE,SOLID, 12"	125.00 LF	\$1.27	\$158.75
710-11-124	PAINTED PAVT MARK,STD,WHITE,SOLID, 18"	640.00 LF	\$1.13	\$723.20
710-11-125	PAINTED PAVT MARK,STD,WHITE,SOLID,24"	20.00 LF	\$1.62	\$32.40
710-11-160	PAINTED PAVT MARK,STD,WHITE, MESSAGE	21.00 EA	\$37.97	\$797.37
710-11-170	PAINTED PAVT MARK,STD,WHITE, ARROWS	3.00 EA	\$34.49	\$103.47
710-11-201	PAINTED PAVT MARK,STD,YELLOW,SOLID,6"	0.90 GM	\$1,117.94	\$1,006.15
711-11-123	THERMOPLASTIC, STD, WHITE, SOLID, 12"	125.00 LF	\$3.53	\$441.25
711-11-124	THERMOPLASTIC, STD, WHITE, SOLID, 18"	640.00 LF	\$5.01	\$3,206.40
711-11-125	THERMOPLASTIC, STD, WHITE, SOLID, 24"	20.00 LF	\$6.50	\$130.00

711-11-160	THERMOPLASTIC, STD, WHITE, MESSAGE	21.00 EA	\$127.43	\$2,676.03
711-11-170	THERMOPLASTIC, STD, WHITE, ARROW	3.00 EA	\$61.61	\$184.83
711-15-102	THERMOPLASTIC, STD-OP, WHITE, SOLID, 8"	0.75 GM	\$8,714.74	\$6,536.06

Pavement Marking Subcomponent

Description	Value
Include Thermo/Tape/Other	Y
Pavement Type	Asphalt
Solid Stripe No. of Paint Applications	1
Solid Stripe No. of Stripes	3
Skip Stripe No. of Paint Applications	1
Skip Stripe No. of Stripes	4

Pay Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
706-1-3	RAISED PAVMT MARK, TYPE B	240.00 EA	\$3.78	\$907.20
710-11-101	PAINTED PAVT MARK,STD,WHITE,SOLID,6"	1.06 GM	\$1,117.30	\$1,184.34
710-11-131	PAINTED PAVT MARK,STD,WHITE,SKIP, 6"	1.42 GM	\$498.41	\$707.74
711-15-101	THERMOPLASTIC, STD-OP, WHITE, SOLID, 6"	1.06 GM	\$6,643.52	\$7,042.13
711-15-131	THERMOPLASTIC, STD-OP, WHITE, SKIP, 6"	1.42 GM	\$1,767.13	\$2,509.32
711-15-201	THERMOPLASTIC, STD-OP,YELLOW, SOLID, 6"	1.06 GM	\$6,324.64	\$6,704.12
Roadway Component Total				\$702,109.10

SHOULDER COMPONENT

User Input Data

Description	Value
Total Outside Shoulder Width L/R	13.00 / 13.00
Total Outside Shoulder Perf. Turf Width L/R	2.67 / 2.67
Paved Outside Shoulder Width L/R	10.00 / 10.00
Structural Spread Rate	165
Friction Course Spread Rate	80
Total Width (T) / 8" Overlap (O)	O
Rumble Strips i _g 1/2 No. of Sides	2

Pay Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
327-70-6	MILLING EXIST ASPH PAVT,1 1/2" AVG DEPTH	4,165.33 SY	\$4.04	\$16,827.93
334-1-55	SUPERPAVE ASPH CONC, TRAF E, PG76-22	343.64 TN	\$153.37	\$52,704.07
337-7-25	ASPH CONC FC,INC BIT,FC-5,PG76-22	11.00 TN	\$193.85	\$2,132.35
546-72-1	GROUND-IN RUMBLE STRIPS, 16"	0.71 GM	\$1,152.91	\$818.57
570-1-1	PERFORMANCE TURF	1,112.14 SY	\$5.19	\$5,772.01

Erosion Control

Pay Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
104-11	FLOATING TURBIDITY BARRIER	35.50 LF	\$13.02	\$462.21
104-12	STAKED TURBIDITY BARRIER- NYL REINF PVC	35.50 LF	\$4.82	\$171.11
107-1	LITTER REMOVAL	2.58 AC	\$86.81	\$223.97
107-2	MOWING	2.58 AC	\$95.60	\$246.65
Shoulder Component Total				\$79,358.87

MEDIAN COMPONENT**User Input Data**

Description	Value
Total Median Width	40.00
Performance Turf Width	5.34
Total Median Shoulder Width L/R	13.00 / 13.00
Paved Median Shoulder Width L/R	10.00 / 10.00
Structural Spread Rate	165
Friction Course Spread Rate	80
Total Width (T) / 8" Overlap (O)	0
Rumble Strips 1/2 No. of Sides	2

Pay Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
327-70-6	MILLING EXIST ASPH PAVT, 1 1/2" AVG DEPTH	4,165.33 SY	\$4.04	\$16,827.93
334-1-55	SUPERPAVE ASPH CONC, TRAF E, PG76-22	343.64 TN	\$153.37	\$52,704.07
337-7-25	ASPH CONC FC, INC BIT, FC-5, PG76-22	11.00 TN	\$193.85	\$2,132.35
546-72-1	GROUND-IN RUMBLE STRIPS, 16"	1.00 GM	\$1,152.91	\$1,152.91
570-1-1	PERFORMANCE TURF	1,112.14 SY	\$5.19	\$5,772.01
Median Component Total				\$78,589.27

SIGNING COMPONENT**Pay Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
700-1-11	SINGLE POST SIGN, F&I GM, <12 SF	4.00 AS	\$533.27	\$2,133.08
700-1-12	SINGLE POST SIGN, F&I GM, 12-20 SF	4.00 AS	\$1,391.90	\$5,567.60
700-1-60	SINGLE POST SIGN, REMOVE	8.00 AS	\$32.97	\$263.76
700-2-60	MULTI- POST SIGN, REMOVE	1.00 AS	\$861.96	\$861.96

X-Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
700-2-15	MULTI- POST SIGN, F&I GM, 51-100 SF	1.00 AS	\$7,323.57	\$7,323.57
705-11-1	DELINEATOR, FLEXIBLE TUBULAR	100.00 EA	\$77.95	\$7,795.00

Signing Component Total

\$23,944.97

Sequence 2 Total

\$884,002.21

Sequence: 3 MIS - Miscellaneous Construction

Net Length: 0.811 MI
4,282 LF

Description: Overhead Signing MP 9.194 to MP 10.005

SIGNING COMPONENT

X-Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
700-3-203	SIGN PANEL, F&I OM, 21-30 SF	3.00	EA	\$2,563.19	\$7,689.57
700-3-205	SIGN PANEL, F&I OM, 51-100 SF	1.00	EA	\$7,537.92	\$7,537.92
700-3-206	SIGN PANEL, F&I OM, 101-200 SF	3.00	EA	\$10,884.70	\$32,654.10
700-3-207	SIGN PANEL, F&I OM, 201-300 SF	1.00	EA	\$16,137.47	\$16,137.47
700-3-209	SIGN PANEL, F&I OM, 401-500 SF	2.00	EA	\$20,970.05	\$41,940.10
700-3-603	SIGN PANEL, REMOVE, 21-30 SF	3.00	EA	\$183.03	\$549.09
700-3-605	SIGN PANEL, REMOVE, 51-100 SF	1.00	EA	\$691.95	\$691.95
700-3-606	SIGN PANEL, REMOVE, 101-200 SF	3.00	EA	\$675.83	\$2,027.49
700-3-607	SIGN PANEL, REMOVE, 201-300 SF	1.00	EA	\$1,085.56	\$1,085.56
700-3-609	SIGN PANEL, REMOVE, 401-500 SF	2.00	EA	\$1,873.07	\$3,746.14
700-4-127	OH STATIC SIGN STR, F&I, S 151-200 FT	3.00	EA	\$234,803.81	\$704,411.43
700-4-622	OH STATIC SIGN STR, DEEP REMOVE, SPAN	3.00	EA	\$76,707.29	\$230,121.87
Signing Component Total					\$1,048,592.69

Sequence 3 Total

\$1,048,592.69

FDOT Long Range Estimating System - Production

R3: Project Details by Sequence Report

Project: 453560-1-52-01

Letting Date: 07/2026

Description: I-275 FROM N OF US 19 TO N OF TOLL PLAZA

District: 01 **County:** 13 MANATEE **Market Area:** 10 **Units:** English

Contract Class: 1 **Lump Sum Project:** N **Design/Build:** N **Project Length:** 0.811 MI

Project Manager: JMK-

Version 3-P Project Grand Total **\$3,828,221.47**

Description: Reduced Percentages (5/5/5) per Management from Version 1P - 9/15/23; Updated Signing quantities - 9-27-2023.

Resurfacing Lane Mile Cost	\$786,082.44
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Project Sequences Subtotal	\$3,263,769.76
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102-1	Maintenance of Traffic	5.00 %	\$163,188.49
101-1	Mobilization	5.00 %	\$171,347.91

Project Sequences Total	\$3,598,306.16
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Project Unknowns	5.00 %	\$179,915.31
Design/Build	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	\$50,000.00	\$50,000.00

Project Non-Bid Subtotal	\$50,000.00
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Version 3-P Project Grand Total	\$3,828,221.47
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