

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 452794-1-52-01

SR 93 / I-75 from N of US 301 to N of I-275

Manatee County, Florida



Candidate Project RRR Scope

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

October 13, 2023

RE: I-75 from N of US 301 to N of I-275 TECHNICAL SCOPE

State Road Number: SR 93 / I-75
 Section Number: 13075-000
 County: Manatee County
 Project Limits: SR 93 / I-75 from N of US 301 to N of I-275
 Begin MP/End MP: 11.709 to 15.756 (ramps included – limits listed in roadway section)
 Project Length: 4.047 miles
 FPID No.: 452794-1
 Work Mix: 0012 (Resurfacing)

1. Existing R/W Map Project Numbers:	13075-2405 (1977) (Rev 1989)
2. Old Construction Project Numbers:	433256-1 (2016) RRR MP 12.451 to MP 13.352 420253-1 (2009) RRR MP 12.963 to MP 15.714 422498-1 (2010) RRR MP 8.234 to MP 12.736 419804-1 (2010) Guardrail MP 1.321 to MP 19.750 13075-3432 (1995) Original asbuilts
3. Proposed projects within the same limits (such as safety, sidewalk or drainage projects):	N/A
4. Adjacent Projects:	201032-5 (2020) Interchange – Add Lanes MP 10.250 to MP 11.400 201015-2 (2006) RRR MP 1.347 to MP 3.566 13175000
5. Additional R/W Required?	No
6. Level of Community Awareness Plan:	Level 1
7. Are there any bridges within the limits?	Yes; 130107, 130075, 130076, 130089, 130108, 130109, 130090, 130112, 130110, 130090, 130112,
8. Are there any RR Crossings within the project limits or in the vicinity?	Yes – FPL RR Crossing #621484-F, RR MP SW 866.00 at I-75 MP 12.881
9. Are there any Airports within 5-miles?	Airport Manatee 48X
10. Storm Water Management Jurisdiction:	Southwest Florida Water Management District
11. AADT:	95,000 AADT (2022); Truck %= 16.4
12. Are there any old houses or buildings adjacent to the project?	No
13. Number of Existing Utilities:	8 Utilities: Charter Comms – CATC; FDOT D1 – Electric, Fiber; FP&L – Electric, Fiber; Frontier – CATV, Communication Lines; Manatee County – Reclaimed Water, Sewer; MCI – Comm Lines, Fiber; Peace River – Electric; Transcore – Electric, Fiber

14. Any Special MOT concerns?	No
15. Any Construction concerns?	No
16. Posted/Design Speed Limits:	420253 (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 Scoping 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 I-75 from N of US 301 to N of I-275.

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: Begin the project at MP 11.709 north of US 301. Then, proceed northbound for 4.047 miles to MP 15.756, north of I-275.
- Southbound: Begin the project at MP 11.709 north of US 301. Then, proceed northbound for 4.047 miles to MP 15.756, north of I-275.
- From MP 11.709 to approximate MP 12.736, the typical section consists of (3) 12 ft wide travel lanes southbound and (3) 12 ft wide lanes northbound. From approximate MP 12.736 to MP 15.756, the typical section varies from (3 to 4) 12 ft wide travel lanes southbound and (3 to 4) 12 ft wide lanes northbound. The outside shoulders are 12 ft (10 ft paved). The inside shoulders are 12 ft (10 ft paved). There is a variable width (88 ft minimum) grassed median.
- There are four (4) connector ramps at the I-275 interchange to be included:
 - Ramp 13175000, I-75 NB to I-275 WB, 2-lane ramp.
 - Ramp 13175310, I-275 EB to I-75 SB, 2-lane ramp.
 - Ramp 13175301, I-275 EB to I-75 NB, 1-lane ramp.
 - Ramp 13175302, I-75 SB to I-275 WB, 1-lane ramp.
- This project will be contained within the existing right-of-way limits.
- The existing posted 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 11.709 SLD 13075.000
Southbound, looking north



Begin Project MP 11.709 SLD 13075.000
Northbound, looking north



End Project MP 15.756 SLD 13075.000
Southbound, looking south



End Project MP 15.756 SLD 13075.000
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 the 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 north of US 301 at MP 11.709, then, proceeds north for 4.047 miles to north of I-275 at MP 15.756

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 ¾" FC-5 (PG 76-22). Existing paved shoulders will to be milled 1 ½" and resurfaced with 1 ½" SP-12.5 (Traffic E, PG 76-22). The inside and outside shoulders will have 8" overlap of ¾" 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 resurfaced in 2009 under FM Project 420253-1-52-01, in 2010 under FM Project 422498-1, and in 2016 under FM Project 433256-1. The cross slopes for all three projects were constructed to match existing cross slopes. It is recommended that the project manager re-evaluate the cross slopes during the plans preparation period to determine if cross slope corrections will be required.

Ramp Limits and Pavement:

- The following ramps at the I-275 interchange are to be milled and resurfaced:
 - # 13175000, I-75 NB to I-275 WB, 2-lane ramp (MP 0.000 to MP 1.344)
 - # 13175310, I-275 EB to I-75 SB, 2-lane ramp (MP 0.000 to MP 0.807)
 - # 13175301, I-275 EB to I-75 NB, 1-lane ramp (MP 0.000 to MP 1.079)
 - # 13175302, I-75 SB to I-275 WB, 1-lane ramp (MP 0.000 to MP 0.682)
- Ramps are to use the same pavement design as the mainline travel lanes. Limits of ramp milling and resurfacing are to be confirmed during the design phase.

Horizontal Curves/Superelevation:

- There are several existing horizontal curves within the project limits. The SLD shows five (5) curves for this segment of I-75. The as-built plans for 422498-1, 433256-1, and 420253-1 show additional curves, many of which are superelevated. It is recommended the cross slopes in the vicinity of these curves be analyzed to determine the existing superelevation. The superelevation should be evaluated according to FDM 210.9.2 to determine if correction is needed. Curves as shown in the SLD:
 - PI = MP 11.538, D = 1°00', Δ = 19°53'55"
 - PI = MP 12.658, D = 0°45', Δ = 10°56'06"
 - PI = MP 13.908, D = 1°00', Δ = 10°02'49"
 - PI = MP 14.936, D = 1°30', Δ = 32°56'22"
 - PI = MP 15.843, D = 0°40', Δ = 8°14'30"

Guardrail:

- There is existing guardrail and cable barrier within the project limits that is to be evaluated for condition and replaced as needed. For budget purposes, the LRE assumes all guardrail 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 cable barrier and guardrail:
 - There is existing cable barrier alternating along the northbound and southbound median

shoulders of the roadway:

- Along the northbound roadway from approximate MP 11.709 to the Mendoza Road overpass at MP 12.221 (2700 ft).
- Along the southbound roadway from the Mendoza Road overpass at MP 12.221 to approximate MP 12.72 (2625 ft).
- Along the southbound roadway from just north of the emergency crossover at approximate MP 13.47 to the south side of the Buffalo Canal bridge at MP 14.52 (5200 ft).
- Along the southbound roadway from the north side of the Buffalo Canal bridge at MP 14.52 to the End Project at MP 15.756 (6400 ft).
- The cable barrier should be evaluated for condition. If there are any questions about the condition discuss the appropriate course of action for replacement or upgrade with the FDOT project manager.
- Quantities were included in the LRE for full replacement of the existing cable barrier if needed.
- Northbound Bridge Approaches:
 - CSX Railroad Overpass, MP 12.881 (1000 ft left approach), (1200 ft right approach), (1025 ft left departure), and (1025 ft right departure)
 - Buffalo Canal bridge, MP 14.52 (400 ft left approach), and (75 ft right approach)
- Southbound Bridge Approaches:
 - CSX Railroad Overpass, MP 12.881 (1150 ft left approach), (1150 ft right approach), (850 ft left departure), and (1150 ft right departure)
 - Buffalo Canal bridge, MP 14.52 (400 ft left approach), and (75 ft right approach)
- Ramp 13175000 (I-75 NB to I-275 WB) Approaches, 2-lane ramp:
 - Buffalo Canal bridge, MP 0.37, (525 ft left approach), (325 ft right approach)
 - Overpass over I-75, MP 0.56 (825 ft left approach), and (850 ft right approach), (1525 ft left departure), and (1675 ft right departure)
- Ramp 13175301 (I-75 EB to I-275 NB) Approaches, 2-lane ramp:
 - Overpass over Ramps and I-75, MP 0.80 (1325 ft left approach), and (1325 ft right approach), (575 ft left departure), and (575 ft right departure)
- Provide 25 ft of three beam guardrail transition along with bridge anchorage assemblies at all bridge attachment points, in compliance with current Florida Department of Transportation (FDOT) 2022-23, Standard Plans for Road and Bridge Construction, Index 536-001 and 536-002. The remaining guardrail for the bridge approaches is to be W beam.

Shoulder Gutter:

- There is existing shoulder gutter within the project limits that is to be evaluated for condition and replaced as needed. For budget purposes, the LRE assumes approximately 20% of shoulder gutter to be replaced. Listed below is the location and approximate length of shoulder gutter:
 - Northbound Shoulder Gutter:
 - CSX Railroad Overpass, MP 12.881 (left approach, 845 ft), (right approach, 170 ft) (right departure, 1330 ft).
 - Southbound Shoulder Gutter:
 - CSX Railroad Overpass, MP 12.881 (left departure, 1375 ft), (left approach, 1290 ft).
 - Buffalo Canal bridge, MP 0.37, (left departure, 170 ft), (left approach, 130 ft).

- Ramp 13175000 (I-75 NB to I-275 WB) Shoulder Gutter:
 - Buffalo Canal bridge, MP 0.37, (left approach, 220 ft).
 - Overpass over I-75, MP 0.56, (left approach, 785 ft), (left departure, 1320 ft).
- Ramp 13175301 (I-75 EB to I-275 NB) Shoulder Gutter:
 - Overpass over Ramps and I-75, MP 0.80 (right approach, 350 ft), (left approach, 715 ft), (left departure, 850 ft).

Emergency Vehicle Crossover:

- There is one paved emergency vehicle cross over located at approximate MP 13.47. If this cross over is to remain it should be brought up to current standard as described in FDOT Design Manual 211.3.2 and milled and resurfaced with the same pavement design as used for the paved shoulders.

Traffic Monitoring Sites:

- There are three traffic monitoring sites within the project limits:
 - MP 12.451
 - MP 14.691
 - MP 15.712
- The traffic monitoring sites are to be upgraded with new sensors, loops, conduit, and pull boxes. Quantities for this are included in the LRE.

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:

- The Straight Line Diagram shows a CSX RR crossing at MP 12.881. As-built plans 433256-1 show the crossing as FPL RR Crossing #621484-F, RR MP SW 866.00. Although I-75 crosses over the railroad and no impacts to the railroad are anticipated, coordination with the District Rail Office is recommended.

Design Variation/Exception:

- If any of the curves are found to have deficient superelevation they will need to be corrected or a design exception processed to leave the existing superelevation in place.

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 the 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. Also, replace damaged signs as needed.
- There are sixteen two-column signs in this project (see photos following). Eight of these are guide signs, five are motorist aid sign assemblies (including three with flashing beacons), two are regulatory signs, and one is a memorial roadway designation sign. All should be evaluated with regard to condition and reflectivity. Replace where needed.

MAIN LINE I-75 (13075-000)



Northbound I-75 North of US 301



Northbound I-75 Approaching I-275



Northbound I-75 At I-275 Exit (No. 228)





Northbound I-75 North of US 301



Southbound I-75 South of Exit 228



Northbound I-75 North of US 301



Southbound I-75 South of Exit 228



Northbound I-75 Approaching I-275



Southbound I-75 South of Exit 228

RAMP 1 (13175-000)



- There are existing overhead sign panels attached to bridge abutments within this project (see photos following). Evaluate sign panels for possible replacement. If replaced, the new signs should be installed on sign structures (cantilever or span sign structure). These signs can no longer be attached to the bridge abutments per more recent structural design guidelines.

MAIN LINE I-75 (13075-000)





Northbound I-75 North of Exit 228

- There are also overhead sign panels attached to span sign structures and a cantilever sign structure (see photos following). Evaluate sign panels for possible replacement. If replaced, ancillary structural evaluations 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.

MAIN LINE I-75 (13075-000)



Northbound I-75 Approaching I-275



Southbound I-75 Approaching I-275



Southbound I-75 At I-275 Exit (No. 228)

RAMP 2 (13175-301)



Eastbound I-275 Ramp to Northbound I-75
(13175-301)

Pavement Marking Scope Items:

- Restripe roadway per current Standard Plans, FDM, and MUTCD.
- Use permanent tape for markings on concrete bridge surfaces.
- Use standard thermoplastic for all 18" chevrons, 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.

Lighting Scope Items:

- The request from District Maintenance to replace existing high mast lighting with standard corridor lighting has been dropped per Central Office for budget purposes.

Geotechnical Scope Items:

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

Structural Scope Items:

- 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.
- Per FDM 260.9, an engineering analysis and report is required to evaluate the structural and functional adequacy of the existing bridge. Coordinate with the District Structures Office to determine the scope of the engineering analysis and report.

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: 452794-1-52-01

Letting Date: 07/2026

Description: I-75 FROM N OF US 301 TO N OF I-275

District: 01 **County:** 13 MANATEE

Market Area: 10 **Units:** English

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

Design/Build: N **Project Length:** 4.047 MI

Project Manager: JMK-

Version 5-P Project Grand Total

\$16,302,138.95

Description: Scope Reduction per CO - Removed Lighting and Changed HTCB per Markups - Copied from Version 4 - 9/28/23

Sequence: 1 RSD - Resurfacing, Divided

Net Length: 1.027 MI
5,423 LF

Description: Mill & Resurface I-75 Mainline from N of US 301 to S of I-275 (MP 11.709 to MP 12.736) - 6-Lane Rdwy. (no ramps)

Special Conditions: Interstate to be resurfaced. Guardrail to be replaced at bridges.

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	Quantity Unit	Unit Price	Extended Amount
327-70-20	MILLING EXIST ASPH PAVT,3 3/4" AVG DEPTH	43,380.48 SY	\$4.21	\$182,631.82
334-1-55	SUPERPAVE ASPH CONC, TRAF E, PG76-22	7,157.78 TN	\$133.94	\$958,713.05
337-7-25	ASPH CONC FC,INC BIT,FC-5,PG76-22	1,735.22 TN	\$186.12	\$322,959.15

X-Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
339-1	MISCELLANEOUS ASPHALT PAVEMENT	71.13 TN	\$375.76	\$26,727.81
536-1-1	GUARDRAIL- ROADWAY, GEN TL-3	1,900.00 LF	\$27.01	\$51,319.00
536-8-112	GUARDRA CONN TO RIGID BA, F&I, N APPR 3	4.00 EA	\$2,378.79	\$9,515.16
536-73	GUARDRAIL REMOVAL	1,900.00 LF	\$2.91	\$5,529.00
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
710-11-131	PAINTED PAVT MARK,STD,WHITE,SKIP, 6"	8.24 GM	\$498.41	\$4,106.90
711-15-101	THERMOPLASTIC, STD-OP, WHITE, SOLID, 6"	5.51 GM	\$6,643.52	\$36,605.80

711-15-131	THERMOPLASTIC, STD-OP, WHITE, SKIP, 6"	18.18 GM	\$1,767.13	\$32,126.42
711-15-201	THERMOPLASTIC, STD- OP,YELLOW, SOLID, 6"	5.93 GM	\$6,324.64	\$37,505.12

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	4
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	693.00 EA	\$3.87	\$2,681.91
710-11-101	PAINTED PAVT MARK,STD,WHITE,SOLID,6"	4.11 GM	\$1,165.12	\$4,788.64
710-11-201	PAINTED PAVT MARK,STD,YELLOW,SOLID,6"	4.11 GM	\$1,154.49	\$4,744.95
711-15-101	THERMOPLASTIC, STD-OP, WHITE, SOLID, 6"	4.11 GM	\$6,643.52	\$27,304.87
711-15-131	THERMOPLASTIC, STD-OP, WHITE, SKIP, 6"	4.11 GM	\$1,767.13	\$7,262.90
711-15-201	THERMOPLASTIC, STD- OP,YELLOW, SOLID, 6"	4.11 GM	\$6,324.64	\$25,994.27
Roadway Component Total				\$1,751,305.19

SHOULDER COMPONENT

User Input Data

Description	Value
Total Outside Shoulder Width L/R	12.67 / 12.67
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 1/2No. 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	12,050.13 SY	\$3.50	\$42,175.46
334-1-55	SUPERPAVE ASPH CONC, TRAF E, PG76-22	994.14 TN	\$133.94	\$133,155.11
337-7-25	ASPH CONC FC,INC BIT,FC- 5,PG76-22	31.81 TN	\$186.12	\$5,920.48
546-72-1	GROUND-IN RUMBLE STRIPS, 16"	2.05 GM	\$1,152.91	\$2,363.47
570-1-1	PERFORMANCE TURF	3,217.39 SY	\$4.61	\$14,832.17

Erosion Control

Pay Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
104-10-3	SEDIMENT BARRIER	10,800.00 LF	\$2.71	\$29,268.00
104-11	FLOATING TURBIDITY BARRIER	102.70 LF	\$3.93	\$403.61

104-12	STAKED TURBIDITY BARRIER- NYL REINF PVC	102.70 LF	\$4.98	\$511.45
107-1	LITTER REMOVAL	7.47 AC	\$91.07	\$680.29
107-2	MOWING	7.47 AC	\$98.80	\$738.04
Shoulder Component Total				\$230,048.08

MEDIAN COMPONENT

User Input Data

Description	Value
Total Median Width	66.00
Performance Turf Width	5.34
Total Median Shoulder Width L/R	12.67 / 12.67
Paved Median Shoulder Width L/R	10.00 / 10.00
Structural Spread Rate	110
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	12,050.13 SY	\$3.50	\$42,175.46
334-1-55	SUPERPAVE ASPH CONC, TRAF E, PG76-22	662.76 TN	\$133.94	\$88,770.07
337-7-25	ASPH CONC FC,INC BIT,FC- 5,PG76-22	31.81 TN	\$186.12	\$5,920.48
546-72-1	GROUND-IN RUMBLE STRIPS, 16"	2.00 GM	\$1,152.91	\$2,305.82
570-1-1	PERFORMANCE TURF	3,217.39 SY	\$4.61	\$14,832.17
Median Component Total				\$154,004.00

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	1.00 AS	\$1,390.52	\$1,390.52
700-1-60	SINGLE POST SIGN, REMOVE	1.00 AS	\$35.71	\$35.71
700-2-14	MULTI- POST SIGN, F&I GM, 31-50 SF	2.00 AS	\$6,455.77	\$12,911.54
700-2-60	MULTI- POST SIGN, REMOVE	6.00 AS	\$826.65	\$4,959.90

X-Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
700-1-13	SINGLE POST SIGN, F&I GM, 21- 30 SF	1.00 AS	\$1,905.39	\$1,905.39
700-2-16	MULTI- POST SIGN, F&I GM, 101- 200 SF	2.00 AS	\$14,214.85	\$28,429.70
700-2-17	MULTI- POST SIGN, F&I GM, 201- 300 SF	1.00 AS	\$25,895.78	\$25,895.78
700-2-18	MULTI- POST SIGN, F&I GM, 301- 400 SF	1.00 AS	\$31,643.01	\$31,643.01
700-3-203	SIGN PANEL, F&I OM, 21-30 SF	1.00 EA	\$2,563.19	\$2,563.19
700-3-209	SIGN PANEL, F&I OM, 401-500 SF	1.00 EA	\$17,075.69	\$17,075.69

700-3-601	SIGN PANEL, REMOVE, UP TO 12 SF	1.00 EA	\$71.02	\$71.02
700-3-603	SIGN PANEL, REMOVE, 21-30 SF	2.00 EA	\$100.00	\$200.00
700-3-609	SIGN PANEL, REMOVE, 401-500 SF	1.00 EA	\$1,873.07	\$1,873.07
700-4-126	OH STATIC SIGN STR, F&I, S 101-150 FT	1.00 EA	\$174,208.97	\$174,208.97
705-10-2	OBJECT MARKER, TYPE 2	5.00 EA	\$278.99	\$1,394.95
Signing Component Total				\$304,558.44

SIGNALIZATIONS COMPONENT

Traffic Monitoring 1

Description	Value
Lanes	6
Multiplier	1

Pay Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
630-2-11	CONDUIT, F& I, OPEN TRENCH	250.00 LF	\$13.60	\$3,400.00
630-2-12	CONDUIT, F& I, DIRECTIONAL BORE	60.00 LF	\$29.12	\$1,747.20
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24"	3.00 EA	\$1,138.96	\$3,416.88
695-1-1	TMS VEH SNSR-NON-WEIGHT, F&I,	6.00 EA	\$2,309.73	\$13,858.38
695-6-12	TMS IND LOOP ASSEMBLY	6.00 EA	\$1,877.54	\$11,265.24
Signalizations Component Total				\$33,687.70

Sequence 1 Total **\$2,473,603.41**

Sequence: 2 RSD - Resurfacing, Divided

Net Length: 3.020 MI
15,946 LF

Description: Mill & Resurface I-75 Mainline from S of I-275 to N of I-275 (MP 12.736 to MP 15.756) - 6 to 8 lane rdwy. (7-Lane average). (Ramps for I-275 are in separate sequences.)

Special Conditions: Interstate to be resurfaced. Guardrail to be replaced at bridges.

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	148,825.60 SY	\$4.21	\$626,555.78
334-1-55	SUPERPAVE ASPH CONC, TRAF E, PG76-22	24,556.22 TN	\$133.94	\$3,289,060.11
337-7-25	ASPH CONC FC,INC BIT,FC-5,PG76-22	5,953.02 TN	\$186.12	\$1,107,976.08

X-Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
339-1	MISCELLANEOUS ASPHALT PAVEMENT	481.70 TN	\$375.76	\$181,003.59
520-6	SHOULDER GUTTER- CONCRETE	1,910.00 LF	\$134.59	\$257,066.90
	Comment: Includes shoulder gutter for mainline and ramps.			
536-1-1	GUARDRAIL- ROADWAY, GEN TL-3	14,000.00 LF	\$27.01	\$378,140.00
536-8-112	GUARDRA CONN TO RIGID BA, F&I, N APPR 3	8.00 EA	\$2,378.79	\$19,030.32
536-73	GUARDRAIL REMOVAL	9,500.00 LF	\$2.91	\$27,645.00
536-85-20	GUARDRAIL END TREAT-TRAILING ANCHORAGE	4.00 EA	\$1,770.93	\$7,083.72
536-85-24	GUARDRAIL END TREATMENT-PARA APP TERM	9.00 EA	\$3,623.27	\$32,609.43
710-11-102	PAINTED PAVT MARK,STD,WHITE,SOLID,8"	0.05 GM	\$1,375.93	\$68.80
710-11-124	PAINTED PAVT MARK,STD,WHITE,SOLID, 18"	290.00 LF	\$1.13	\$327.70
710-11-131	PAINTED PAVT MARK,STD,WHITE,SKIP, 6"	2.00 GM	\$498.41	\$996.82
710-11-160	PAINTED PAVT MARK,STD,WHITE, MESSAGE	8.00 EA	\$37.97	\$303.76
710-11-170	PAINTED PAVT MARK,STD,WHITE, ARROWS	6.00 EA	\$34.49	\$206.94
710-11-201	PAINTED PAVT MARK,STD,YELLOW,SOLID,6"	5.92 GM	\$1,154.49	\$6,834.58
711-11-124	THERMOPLASTIC, STD, WHITE, SOLID, 18"	290.00 LF	\$5.01	\$1,452.90
711-11-160	THERMOPLASTIC, STD, WHITE, MESSAGE	8.00 EA	\$127.43	\$1,019.44
711-11-170	THERMOPLASTIC, STD, WHITE, ARROW	6.00 EA	\$61.61	\$369.66

711-15-102	THERMOPLASTIC, STD-OP, WHITE, SOLID, 8"	0.05 GM	\$8,714.74	\$435.74
711-15-131	THERMOPLASTIC, STD-OP, WHITE, SKIP, 6"	2.00 GM	\$1,767.13	\$3,534.26
713-103-101	PERMANENT TAPE, WHITE,SOLID,6" CONC BR	0.10 GM	\$42,643.83	\$4,264.38
713-103-131	PERMANENT TAPE, WHITE,SKIP/D,6" FOR CONC	0.26 GM	\$10,752.80	\$2,795.73
713-103-201	PERMANENT TAPE, YELLOW,SOLID,6" CONC BR	0.13 GM	\$42,643.83	\$5,543.70
713-103-331	PERMANENT TAPE, BLACK,SKIP/D,6" FOR CONC	0.26 GM	\$10,521.98	\$2,735.71

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	2
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	2,038.00 EA	\$3.87	\$7,887.06
710-11-101	PAINTED PAVT MARK,STD,WHITE,SOLID,6"	6.04 GM	\$1,165.12	\$7,037.32
710-11-131	PAINTED PAVT MARK,STD,WHITE,SKIP, 6"	12.08 GM	\$498.41	\$6,020.79
711-15-101	THERMOPLASTIC, STD-OP, WHITE, SOLID, 6"	6.04 GM	\$6,643.52	\$40,126.86
711-15-131	THERMOPLASTIC, STD-OP, WHITE, SKIP, 6"	12.08 GM	\$1,767.13	\$21,346.93
711-15-201	THERMOPLASTIC, STD- OP,YELLOW, SOLID, 6"	6.04 GM	\$6,324.64	\$38,200.83
Roadway Component Total				\$6,077,680.84

SHOULDER COMPONENT

User Input Data

Description	Value
Total Outside Shoulder Width L/R	12.67 / 12.67
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 \bar{i} 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	35,434.67 SY	\$3.50	\$124,021.34
334-1-55	SUPERPAVE ASPH CONC, TRAF E, PG76-22	2,923.36 TN	\$133.94	\$391,554.84
337-7-25	ASPH CONC FC,INC BIT,FC- 5,PG76-22	93.55 TN	\$186.12	\$17,411.53

546-72-1	GROUND-IN RUMBLE STRIPS, 16"	6.04 GM	\$1,152.91	\$6,963.58
570-1-1	PERFORMANCE TURF	9,461.06 SY	\$4.61	\$43,615.49

Erosion Control

Pay Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
104-10-3	SEDIMENT BARRIER	31,900.00 LF	\$2.71	\$86,449.00
104-11	FLOATING TURBIDITY BARRIER	302.00 LF	\$3.93	\$1,186.86
104-12	STAKED TURBIDITY BARRIER- NYL REINF PVC	302.00 LF	\$4.98	\$1,503.96
107-1	LITTER REMOVAL	21.96 AC	\$91.07	\$1,999.90
107-2	MOWING	21.96 AC	\$98.80	\$2,169.65
Shoulder Component Total				\$676,876.16

MEDIAN COMPONENT

User Input Data

Description	Value
Total Median Width	66.00
Performance Turf Width	5.34
Total Median Shoulder Width L/R	12.67 / 12.67
Paved Median Shoulder Width L/R	10.00 / 10.00
Structural Spread Rate	110
Friction Course Spread Rate	80
Total Width (T) / 8" Overlap (O)	0
Rumble Strips $\frac{1}{2}$ 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	35,434.67 SY	\$3.50	\$124,021.34
334-1-55	SUPERPAVE ASPH CONC, TRAF E, PG76-22	1,948.91 TN	\$133.94	\$261,037.01
337-7-25	ASPH CONC FC,INC BIT,FC- 5,PG76-22	93.55 TN	\$186.12	\$17,411.53
546-72-1	GROUND-IN RUMBLE STRIPS, 16"	6.00 GM	\$1,152.91	\$6,917.46
570-1-1	PERFORMANCE TURF	9,461.06 SY	\$4.61	\$43,615.49

X-Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
570-1-2	PERFORMANCE TURF, SOD	7,500.00 SY	\$7.28	\$54,600.00

EX-Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
0904540 11	HIGH TENSION CABLE BARRIER SYSTEM - REMOVE	4,500.00 LF	\$5.00	\$22,500.00

Median Component Total **\$530,102.84**

SIGNING COMPONENT

Pay Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
700-1-11	SINGLE POST SIGN, F&I GM, <12 SF	5.00 AS	\$520.34	\$2,601.70

700-1-12	SINGLE POST SIGN, F&I GM, 12-20 SF	4.00 AS	\$1,390.52	\$5,562.08
700-1-60	SINGLE POST SIGN, REMOVE	10.00 AS	\$35.71	\$357.10
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	8.00 AS	\$826.65	\$6,613.20

X-Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
700-1-13	SINGLE POST SIGN, F&I GM, 21-30 SF	2.00 AS	\$1,905.39	\$3,810.78
700-2-13	MULTI- POST SIGN, F&I GM, 21-30 SF	2.00 AS	\$4,850.71	\$9,701.42
700-2-15	MULTI- POST SIGN, F&I GM, 51-100 SF	1.00 AS	\$7,323.57	\$7,323.57
700-2-16	MULTI- POST SIGN, F&I GM, 101-200 SF	2.00 AS	\$14,214.85	\$28,429.70
700-2-17	MULTI- POST SIGN, F&I GM, 201-300 SF	2.00 AS	\$25,895.78	\$51,791.56
700-3-203	SIGN PANEL, F&I OM, 21-30 SF	5.00 EA	\$2,563.19	\$12,815.95
700-3-206	SIGN PANEL, F&I OM, 101-200 SF	2.00 EA	\$10,884.70	\$21,769.40
700-3-208	SIGN PANEL, F&I OM, 301-400 SF	3.00 EA	\$12,729.85	\$38,189.55
700-3-209	SIGN PANEL, F&I OM, 401-500 SF	3.00 EA	\$17,075.69	\$51,227.07
700-3-603	SIGN PANEL, REMOVE, 21-30 SF	5.00 EA	\$100.00	\$500.00
700-3-606	SIGN PANEL, REMOVE, 101-200 SF	2.00 EA	\$675.83	\$1,351.66
700-3-608	SIGN PANEL, REMOVE, 301-400 SF	3.00 EA	\$860.72	\$2,582.16
700-3-609	SIGN PANEL, REMOVE, 401-500 SF	3.00 EA	\$1,873.07	\$5,619.21
700-4-113	OH STATIC SIGN STR, F&I, C 31-40 FT	1.00 EA	\$103,569.94	\$103,569.94
700-4-126	OH STATIC SIGN STR, F&I, S 101-150 FT	4.00 EA	\$174,208.97	\$696,835.88
700-4-612	OH STATIC SIGN STR, DEEP REMOVE, CANT	1.00 EA	\$37,050.15	\$37,050.15
700-4-622	OH STATIC SIGN STR, DEEP REMOVE, SPAN	2.00 EA	\$37,828.31	\$75,656.62
705-10-2	OBJECT MARKER, TYPE 2	5.00 EA	\$278.99	\$1,394.95
705-10-3	OBJECT MARKER, TYPE 3	7.00 EA	\$198.04	\$1,386.28
Signing Component Total				\$1,172,595.70

SIGNALIZATIONS COMPONENT

Traffic Monitoring 1

Description	Value
Lanes	6
Multiplier	1

Pay Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
630-2-11	CONDUIT, F& I, OPEN TRENCH	250.00 LF	\$13.60	\$3,400.00
630-2-12	CONDUIT, F& I, DIRECTIONAL BORE	60.00 LF	\$29.12	\$1,747.20
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24"	3.00 EA	\$1,138.96	\$3,416.88
695-1-1	TMS VEH SNSR-NON-WEIGHT, F&I,	6.00 EA	\$2,309.73	\$13,858.38

695-6-12	TMS IND LOOP ASSEMBLY	6.00 EA	\$1,877.54	\$11,265.24
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Traffic Monitoring 2

Description	Value
Lanes	6
Multiplier	1

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
630-2-11	CONDUIT, F& I, OPEN TRENCH	250.00	LF	\$13.60	\$3,400.00
630-2-12	CONDUIT, F& I, DIRECTIONAL BORE	60.00	LF	\$29.12	\$1,747.20
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24"	3.00	EA	\$1,138.96	\$3,416.88
695-1-1	TMS VEH SNSR-NON-WEIGHT, F&I,	6.00	EA	\$2,309.73	\$13,858.38
695-6-12	TMS IND LOOP ASSEMBLY	6.00	EA	\$1,877.54	\$11,265.24
Signalizations Component Total					\$67,375.40

Sequence 2 Total	\$8,524,630.94
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Sequence: 4 RSD - Resurfacing, Divided

Net Length: 0.807 MI
4,261 LF

Description: Mill & Resurface Ramp 13175310 - I-275 EB to I-75 SB Ramp - 2-Lane Ramp

ROADWAY COMPONENT

User Input Data

Description	Value
Number of Lanes	2
Roadway Pavement Width L/R	12.00 / 12.00
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	11,362.56	SY	\$4.21	\$47,836.38
334-1-55	SUPERPAVE ASPH CONC, TRAF E, PG76-22	1,874.82	TN	\$133.94	\$251,113.39
337-7-25	ASPH CONC FC,INC BIT,FC- 5,PG76-22	454.50	TN	\$186.12	\$84,591.54

X-Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
339-1	MISCELLANEOUS ASPHALT PAVEMENT	16.70	TN	\$375.76	\$6,275.19
536-1-1	GUARDRAIL- ROADWAY, GEN TL-3	500.00	LF	\$27.01	\$13,505.00
536-8-112	GUARDRA CONN TO RIGID BA, F&I, N APPR 3	1.00	EA	\$2,378.79	\$2,378.79
536-73	GUARDRAIL REMOVAL	500.00	LF	\$2.91	\$1,455.00
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	2.00	EA	\$3,623.27	\$7,246.54
706-1-3	RAISED PAVMT MARK, TYPE B	250.00	EA	\$3.87	\$967.50
710-11-102	PAINTED PAVT MARK,STD,WHITE,SOLID,8"	0.05	GM	\$1,375.93	\$68.80
710-11-124	PAINTED PAVT MARK,STD,WHITE,SOLID, 18"	400.00	LF	\$1.13	\$452.00
710-11-131	PAINTED PAVT MARK,STD,WHITE,SKIP, 6"	0.81	GM	\$498.41	\$403.71
710-11-201	PAINTED PAVT MARK,STD,YELLOW,SOLID,6"	0.81	GM	\$1,154.49	\$935.14
711-11-124	THERMOPLASTIC, STD, WHITE, SOLID, 18"	400.00	LF	\$5.01	\$2,004.00
711-15-102	THERMOPLASTIC, STD-OP, WHITE, SOLID, 8"	0.05	GM	\$8,714.74	\$435.74
711-15-131	THERMOPLASTIC, STD-OP, WHITE, SKIP, 6"	0.81	GM	\$1,767.13	\$1,431.38
713-103-101	PERMANENT TAPE, WHITE,SOLID,6" CONC BR	0.03	GM	\$42,643.83	\$1,279.31
713-103-102	PERM TAPE, WHITE, S, 8" EXIT CONC PAVMT	0.06	GM	\$38,580.85	\$2,314.85
713-103-131	PERMANENT TAPE, WHITE,SKIP/D,6" FOR CONC	0.03	GM	\$10,752.80	\$322.58
713-103-331	PERMANENT TAPE, BLACK,SKIP/D,6" FOR CONC	0.03	GM	\$10,521.98	\$315.66

Pavement Marking Subcomponent

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

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
706-1-3	RAISED PAVMT MARK, TYPE B	109.00	EA	\$3.87	\$421.83
710-11-101	PAINTED PAVT MARK,STD,WHITE,SOLID,6"	0.81	GM	\$1,165.12	\$943.75
711-15-101	THERMOPLASTIC, STD-OP, WHITE, SOLID, 6"	0.81	GM	\$6,643.52	\$5,381.25
711-15-201	THERMOPLASTIC, STD- OP,YELLOW, SOLID, 6"	0.81	GM	\$6,324.64	\$5,122.96
Roadway Component Total					\$438,973.22

SHOULDER COMPONENT

User Input Data

Description	Value
Total Outside Shoulder Width L/R	12.67 / 12.67
Total Outside Shoulder Perf. Turf Width L/R	2.67 / 2.67
Paved Outside Shoulder Width L/R	5.00 / 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	7,101.60	SY	\$3.50	\$24,855.60
334-1-55	SUPERPAVE ASPH CONC, TRAF E, PG76-22	585.88	TN	\$133.94	\$78,472.77
337-7-25	ASPH CONC FC,INC BIT,FC- 5,PG76-22	25.00	TN	\$186.12	\$4,653.00
546-72-1	GROUND-IN RUMBLE STRIPS, 16"	1.61	GM	\$1,152.91	\$1,856.19
570-1-1	PERFORMANCE TURF	2,528.17	SY	\$4.61	\$11,654.86

Erosion Control

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
104-10-3	SEDIMENT BARRIER	4,260.00	LF	\$2.71	\$11,544.60
104-11	FLOATING TURBIDITY BARRIER	80.70	LF	\$3.93	\$317.15
104-12	STAKED TURBIDITY BARRIER- NYL REINF PVC	80.70	LF	\$4.98	\$401.89
107-1	LITTER REMOVAL	5.87	AC	\$91.07	\$534.58
107-2	MOWING	5.87	AC	\$98.80	\$579.96
Shoulder Component Total					\$134,870.60

SIGNING COMPONENT

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
700-1-11	SINGLE POST SIGN, F&I GM, <12 SF	3.00	AS	\$520.34	\$1,561.02
700-1-60	SINGLE POST SIGN, REMOVE	3.00	AS	\$35.71	\$107.13

X-Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
705-10-3	OBJECT MARKER, TYPE 3	1.00	EA	\$198.04	\$198.04

Signing Component Total \$1,866.19

Sequence 4 Total \$575,710.01

Sequence: 5 RSD - Resurfacing, Divided

Net Length: 1,079 MI
5,697 LF

Description: Mill & Resurface Ramp 13175301 - I-275 EB to I-75 NB Ramp - 1-Lane Ramp

ROADWAY COMPONENT

User Input Data

Description	Value
Number of Lanes	1
Roadway Pavement Width L/R	6.00 / 6.00
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	7,596.16	SY	\$4.21	\$31,979.83
334-1-55	SUPERPAVE ASPH CONC, TRAF E, PG76-22	1,253.37	TN	\$133.94	\$167,876.38
337-7-25	ASPH CONC FC,INC BIT,FC-5,PG76-22	303.85	TN	\$186.12	\$56,552.56

X-Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
339-1	MISCELLANEOUS ASPHALT PAVEMENT	126.70	TN	\$375.76	\$47,608.79
536-1-1	GUARDRAIL- ROADWAY, GEN TL-3	3,800.00	LF	\$27.01	\$102,638.00
536-8-112	GUARDRA CONN TO RIGID BA, F&I, N APPR 3	4.00	EA	\$2,378.79	\$9,515.16
536-73	GUARDRAIL REMOVAL	3,800.00	LF	\$2.91	\$11,058.00
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
706-1-3	RAISED PAVMT MARK, TYPE B	350.00	EA	\$3.87	\$1,354.50
710-11-102	PAINTED PAVT MARK,STD,WHITE,SOLID,8"	0.25	GM	\$1,375.93	\$343.98
710-11-124	PAINTED PAVT MARK,STD,WHITE,SOLID, 18"	225.00	LF	\$1.13	\$254.25
711-11-124	THERMOPLASTIC, STD, WHITE, SOLID, 18"	225.00	LF	\$5.01	\$1,127.25
711-15-102	THERMOPLASTIC, STD-OP, WHITE, SOLID, 8"	0.25	GM	\$8,714.74	\$2,178.68
713-103-101	PERMANENT TAPE, WHITE,SOLID,6" CONC BR	0.43	GM	\$42,643.83	\$18,336.85
713-103-201	PERMANENT TAPE, YELLOW,SOLID,6" CONC BR	0.43	GM	\$42,643.83	\$18,336.85

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	1
Skip Stripe No. of Paint Applications	1
Skip Stripe No. of Stripes	0

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
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710-11-101	PAINTED PAVT MARK,STD,WHITE,SOLID,6"	1.08 GM	\$1,165.12	\$1,258.33
711-15-101	THERMOPLASTIC, STD-OP, WHITE, SOLID, 6"	1.08 GM	\$6,643.52	\$7,175.00
711-15-201	THERMOPLASTIC, STD- OP,YELLOW, SOLID, 6"	1.08 GM	\$6,324.64	\$6,830.61
Roadway Component Total				\$495,213.43

SHOULDER COMPONENT

User Input Data

Description	Value
Total Outside Shoulder Width L/R	12.67 / 12.67
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)	0
Rumble Strips 1/2No. 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	12,660.27	SY	\$3.50	\$44,310.94
334-1-55	SUPERPAVE ASPH CONC, TRAF E, PG76-22	1,044.47	TN	\$133.94	\$139,896.31
337-7-25	ASPH CONC FC,INC BIT,FC- 5,PG76-22	33.42	TN	\$186.12	\$6,220.13
546-72-1	GROUND-IN RUMBLE STRIPS, 16"	2.16	GM	\$1,152.91	\$2,490.29
570-1-1	PERFORMANCE TURF	3,380.29	SY	\$4.61	\$15,583.14

Erosion Control

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
104-10-3	SEDIMENT BARRIER	2,600.00	LF	\$2.71	\$7,046.00
104-11	FLOATING TURBIDITY BARRIER	107.90	LF	\$3.93	\$424.05
104-12	STAKED TURBIDITY BARRIER- NYL REINF PVC	107.90	LF	\$4.98	\$537.34
107-1	LITTER REMOVAL	7.84	AC	\$91.07	\$713.99
107-2	MOWING	7.84	AC	\$98.80	\$774.59

Shoulder Component Total

\$217,996.79

SIGNING COMPONENT

X-Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
700-3-203	SIGN PANEL, F&I OM, 21-30 SF	1.00	EA	\$2,563.19	\$2,563.19
700-3-206	SIGN PANEL, F&I OM, 101-200 SF	1.00	EA	\$10,884.70	\$10,884.70
700-3-603	SIGN PANEL, REMOVE, 21-30 SF	1.00	EA	\$100.00	\$100.00
700-3-606	SIGN PANEL, REMOVE, 101-200 SF	1.00	EA	\$675.83	\$675.83
700-4-111	OH STATIC SIGN STR, F&I, C UP TO 20 FT	1.00	EA	\$73,791.55	\$73,791.55
700-4-612	OH STATIC SIGN STR, DEEP REMOVE, CANT	1.00	EA	\$37,050.15	\$37,050.15
705-10-3	OBJECT MARKER, TYPE 3	2.00	EA	\$198.04	\$396.08

Signing Component Total

\$125,461.50

Sequence 5 Total

\$838,671.72

Sequence: 6 RSD - Resurfacing, Divided

Net Length: 0.682 MI
3,601 LF

Description: Mill & Resurface Ramp 13175302 - I-75 SB to I-275 WB Ramp - 1-Lane Ramp

ROADWAY COMPONENT

User Input Data

Description	Value
Number of Lanes	1
Roadway Pavement Width L/R	6.00 / 6.00
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	4,801.28 SY	\$4.21	\$20,213.39
334-1-55	SUPERPAVE ASPH CONC, TRAF E, PG76-22	792.21 TN	\$133.94	\$106,108.61
337-7-25	ASPH CONC FC,INC BIT,FC-5,PG76-22	192.05 TN	\$186.12	\$35,744.35

X-Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
706-1-3	RAISED PAVMT MARK, TYPE B	300.00 EA	\$3.87	\$1,161.00
710-11-102	PAINTED PAVT MARK,STD,WHITE,SOLID,8"	0.30 GM	\$1,375.93	\$412.78
710-11-124	PAINTED PAVT MARK,STD,WHITE,SOLID, 18"	875.00 LF	\$1.13	\$988.75
710-11-201	PAINTED PAVT MARK,STD,YELLOW,SOLID,6"	0.70 GM	\$1,154.49	\$808.14
711-11-124	THERMOPLASTIC, STD, WHITE, SOLID, 18"	875.00 LF	\$5.01	\$4,383.75
711-15-102	THERMOPLASTIC, STD-OP, WHITE, SOLID, 8"	0.30 GM	\$8,714.74	\$2,614.42

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	1
Skip Stripe No. of Paint Applications	1
Skip Stripe No. of Stripes	0

Pay Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
710-11-101	PAINTED PAVT MARK,STD,WHITE,SOLID,6"	0.68 GM	\$1,165.12	\$792.28
711-15-101	THERMOPLASTIC, STD-OP, WHITE, SOLID, 6"	0.68 GM	\$6,643.52	\$4,517.59
711-15-201	THERMOPLASTIC, STD-OP,YELLOW, SOLID, 6"	0.68 GM	\$6,324.64	\$4,300.76

Roadway Component Total

\$182,045.82

SHOULDER COMPONENT

User Input Data

Description	Value
Total Outside Shoulder Width L/R	12.67 / 12.67
Total Outside Shoulder Perf. Turf Width L/R	2.67 / 2.67
Paved Outside Shoulder Width L/R	5.00 / 5.00
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	4,001.07 SY	\$3.50	\$14,003.74
334-1-55	SUPERPAVE ASPH CONC, TRAF E, PG76-22	330.09 TN	\$133.94	\$44,212.25
337-7-25	ASPH CONC FC,INC BIT,FC-5,PG76-22	21.13 TN	\$186.12	\$3,932.72
546-72-1	GROUND-IN RUMBLE STRIPS, 16"	1.36 GM	\$1,152.91	\$1,567.96
570-1-1	PERFORMANCE TURF	2,136.57 SY	\$4.61	\$9,849.59

Erosion Control

Pay Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
104-10-3	SEDIMENT BARRIER	1,300.00 LF	\$2.71	\$3,523.00
104-11	FLOATING TURBIDITY BARRIER	68.20 LF	\$3.93	\$268.03
104-12	STAKED TURBIDITY BARRIER- NYL REINF PVC	68.20 LF	\$4.98	\$339.64
107-1	LITTER REMOVAL	4.96 AC	\$91.07	\$451.71
107-2	MOWING	4.96 AC	\$98.80	\$490.05

Shoulder Component Total \$78,638.70

SIGNING COMPONENT

Pay Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
700-1-11	SINGLE POST SIGN, F&I GM, <12 SF	1.00 AS	\$520.34	\$520.34
700-1-60	SINGLE POST SIGN, REMOVE	1.00 AS	\$35.71	\$35.71
700-2-14	MULTI- POST SIGN, F&I GM, 31-50 SF	2.00 AS	\$6,455.77	\$12,911.54
700-2-60	MULTI- POST SIGN, REMOVE	2.00 AS	\$826.65	\$1,653.30

Signing Component Total \$15,120.89

Sequence 6 Total \$275,805.41

Sequence: 7 RSD - Resurfacing, Divided

Net Length: 1,344 MI
7,096 LF

Description: Mill & Resurface Ramp 13175000 - I-75 NB to I-275 WB Ramp - 2-Lane Ramp

ROADWAY COMPONENT

User Input Data

Description	Value
Number of Lanes	2
Roadway Pavement Width L/R	12.00 / 12.00
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	18,923.52	SY	\$4.21	\$79,668.02
334-1-55	SUPERPAVE ASPH CONC, TRAF E, PG76-22	3,122.38	TN	\$133.94	\$418,211.58
337-7-25	ASPH CONC FC,INC BIT,FC-5,PG76-22	756.94	TN	\$186.12	\$140,881.67

X-Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
339-1	MISCELLANEOUS ASPHALT PAVEMENT	287.00	TN	\$375.76	\$107,843.12
520-6	SHOULDER GUTTER- CONCRETE	500.00	LF	\$134.59	\$67,295.00
536-1-1	GUARDRAIL- ROADWAY, GEN TL-3	5,725.00	LF	\$27.01	\$154,632.25
536-8-122	GUARDRA CONN TO RIGID BA, F&I, APP E3	4.00	EA	\$5,219.81	\$20,879.24
536-8-123	APPROACH TRANS CONN TO RIGID BA, F&I, ET	4.00	EA	\$3,079.69	\$12,318.76
536-73	GUARDRAIL REMOVAL	5,725.00	LF	\$2.91	\$16,659.75
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
706-1-3	RAISED PAVMT MARK, TYPE B	310.00	EA	\$3.87	\$1,199.70
710-11-102	PAINTED PAVT MARK,STD,WHITE,SOLID,8"	0.70	GM	\$1,375.93	\$963.15
710-11-124	PAINTED PAVT MARK,STD,WHITE,SOLID, 18"	1,610.00	LF	\$1.13	\$1,819.30
710-11-131	PAINTED PAVT MARK,STD,WHITE,SKIP, 6"	1.40	GM	\$498.41	\$697.77
711-11-124	THERMOPLASTIC, STD, WHITE, SOLID, 18"	1,610.00	LF	\$5.01	\$8,066.10
711-15-102	THERMOPLASTIC, STD-OP, WHITE, SOLID, 8"	0.70	GM	\$8,714.74	\$6,100.32
711-15-131	THERMOPLASTIC, STD-OP, WHITE, SKIP, 6"	1.40	GM	\$1,767.13	\$2,473.98
713-103-101	PERMANENT TAPE, WHITE,SOLID,6" CONC BR	0.20	GM	\$42,643.83	\$8,528.77
713-103-131	PERMANENT TAPE, WHITE,SKIP/D,6" FOR CONC	0.20	GM	\$10,752.80	\$2,150.56
713-103-201	PERMANENT TAPE, YELLOW,SOLID,6" CONC BR	0.20	GM	\$42,643.83	\$8,528.77
713-103-331	PERMANENT TAPE, BLACK,SKIP/D,6" FOR CONC	0.20	GM	\$10,521.98	\$2,104.40

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	1
Skip Stripe No. of Paint Applications	1
Skip Stripe No. of Stripes	0

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
706-1-3	RAISED PAVMT MARK, TYPE B	181.00	EA	\$3.87	\$700.47
710-11-101	PAINTED PAVT MARK,STD,WHITE,SOLID,6"	1.34	GM	\$1,165.12	\$1,561.26
711-15-101	THERMOPLASTIC, STD-OP, WHITE, SOLID, 6"	1.34	GM	\$6,643.52	\$8,902.32
711-15-201	THERMOPLASTIC, STD- OP,YELLOW, SOLID, 6"	1.34	GM	\$6,324.64	\$8,475.02
Roadway Component Total					\$1,091,449.68

SHOULDER COMPONENT

User Input Data

Description	Value
Total Outside Shoulder Width L/R	0.00 / 12.67
Total Outside Shoulder Perf. Turf Width L/R	0.00 / 2.67
Paved Outside Shoulder Width L/R	0.00 / 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	1

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
327-70-6	MILLING EXIST ASPH PAVT,1 1/2" AVG DEPTH	7,884.80	SY	\$3.50	\$27,596.80
334-1-55	SUPERPAVE ASPH CONC, TRAF E, PG76-22	650.50	TN	\$133.94	\$87,127.97
337-7-25	ASPH CONC FC,INC BIT,FC- 5,PG76-22	20.82	TN	\$186.12	\$3,875.02
546-72-1	GROUND-IN RUMBLE STRIPS, 16"	1.34	GM	\$1,152.91	\$1,544.90
570-1-1	PERFORMANCE TURF	2,105.24	SY	\$4.61	\$9,705.16

Erosion Control

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
104-10-3	SEDIMENT BARRIER	1,300.00	LF	\$2.71	\$3,523.00
104-11	FLOATING TURBIDITY BARRIER	134.40	LF	\$3.93	\$528.19
104-12	STAKED TURBIDITY BARRIER- NYL REINF PVC	134.40	LF	\$4.98	\$669.31
107-1	LITTER REMOVAL	9.77	AC	\$91.07	\$889.75
107-2	MOWING	9.77	AC	\$98.80	\$965.28
Shoulder Component Total					\$136,425.38

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	2.00 AS	\$1,390.52	\$2,781.04
700-1-60	SINGLE POST SIGN, REMOVE	2.00 AS	\$35.71	\$71.42
700-2-60	MULTI- POST SIGN, REMOVE	2.00 AS	\$826.65	\$1,653.30

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
700-2-17	MULTI- POST SIGN, F&I GM, 201-300 SF	1.00 AS	\$25,895.78	\$25,895.78
705-10-1	OBJECT MARKER, TYPE 1	1.00 EA	\$204.97	\$204.97
705-10-2	OBJECT MARKER, TYPE 2	1.00 EA	\$278.99	\$278.99
705-10-3	OBJECT MARKER, TYPE 3	4.00 EA	\$198.04	\$792.16
Signing Component Total				\$36,528.37

Sequence 7 Total**\$1,264,403.43**

FDOT Long Range Estimating System - Production

R3: Project Details by Sequence Report

Project: 452794-1-52-01

Letting Date: 07/2026

Description: I-75 FROM N OF US 301 TO N OF I-275

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

Contract Class: 1 **Lump Sum Project:** N **Design/Build:** N **Project Length:** 4.047 MI

Project Manager: JMK-

Version 5-P Project Grand Total **\$16,302,138.95**

Description: Scope Reduction per CO - Removed Lighting and Changed HTCB per Markups - Copied from Version 4 - 9/28/23

Resurfacing Lane Mile Cost	\$537,315.06
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Project Sequences Subtotal	\$13,952,824.92
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102-1	Maintenance of Traffic	5.00 %	\$697,641.25
101-1	Mobilization	5.00 %	\$732,523.31

Project Sequences Total	\$15,382,989.48
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Project Unknowns	5.00 %	\$769,149.47
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	\$150,000.00	\$150,000.00

Project Non-Bid Subtotal	\$150,000.00
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Version 5-P Project Grand Total	\$16,302,138.95
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