

September 2025



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 456242-1-52-01

SR 70 from E. of SR 45 (US 41) to

W. of Tara Blvd.

Manatee County, Florida



Candidate Project RRR Scope

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

RE: SR 70 from E. of SR 45 (US 41) to W. of Tara Blvd. TECHNICAL SCOPE

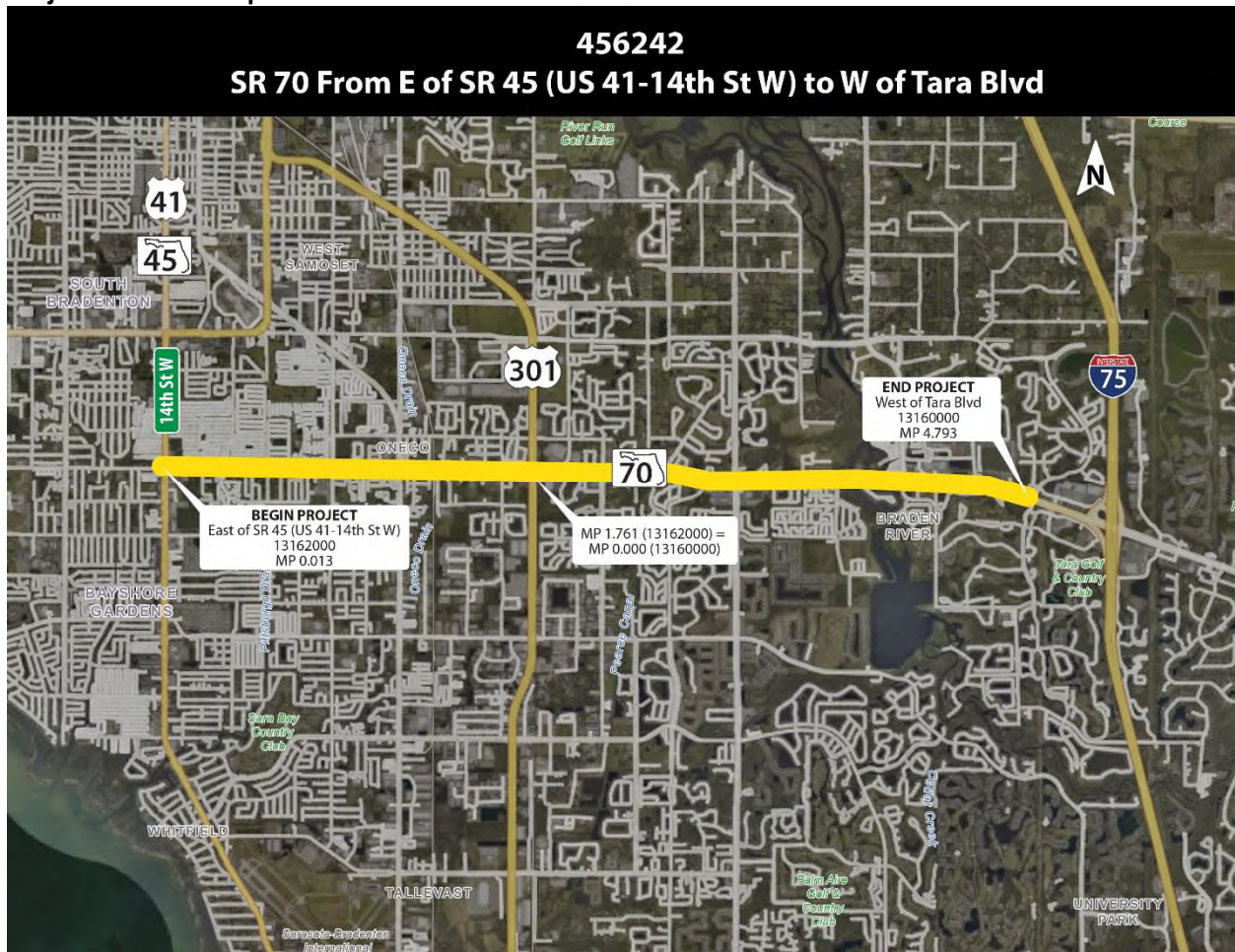
State Road Number: SR 70
 Section Number: 13162000 and 1316000
 County: Manatee County
 Project Limits: SR 70 from E. of SR 45 (US 41) to W. of Tara Blvd.
 Begin MP/End MP: 0.013 to 1.761 (13162000) and 0.000 to 4.793 (13160000)
 Section Equation: 1.761 (13162000) = 0.000 (13160000)
 Project Length: 6.541 miles
 FPID No.: 456242-1
 Work Mix: 0012 (Resurfacing)
 Criteria: Current Manuals and Design Standards for 25/26

<p>1. Existing R/W Map Project Numbers:</p>	<p>1354-150(1953), 13160-2503(1955), 1316-101(1957), 13503-3601(1978), 13160-2502(1992), 13160-2514(1992), 13160-2512(1993), 13160-2515(1993), 13160-2516(1993), 13010-000_4272981(2011), 13162-000_4291041(2012 no plans available)</p>
<p>2. Old Construction Project Numbers:</p>	<p>196096-1_13162_SR70_RRR_MP0.007_MP1.450_FY96 429104-1_13162_SR70_POP_MP0.011_MP1.761_FY14 196021-1_13162_13160_FlexRecon_MP1.512_MP0.991_FY95 195981-1_13160_SR70_AddLanes_MP1.272_MP2.460_FY98 196085-1_13160_SR70_AddLanes_MP2.461_MP3.578_FY97 196059-1_13160_SR70_AddLanes_MP3.578_MP4.801_FY97 431207-1_13160_SR70_RRR_MP0.015_MP2.495_FY16 431373-1_13160_SR70_RRR_MP2.495_MP4.793_FY16 433372-1_13162_SR70_IntImp_MP1.082_MP1.240_FY15 436546-1_13162_SR70_IntImp_MP0.011_MP0.106_FY18</p>
<p>3. Adjacent Projects:</p>	<p>201032-2_13075_I-75_Interchange_MP3.337_MP4.096_FY18</p>

	XXXXXXXX-1_13010_US41_RRR_MP 3.017_ MP6.298_CA 195813-3_13010_US41_RRR_MP3.017_ MP5.068_FY08 444049-1_13010_US41_Median_MP2.996_ MP4.399_FY22 433592-3_13010_US41_Lighting_MP3.126_ MP4.285_FY22 420618-1_13075_I75_Interchange_MP3.839_ MP3.997_FY09 196121-1_13160_SR70_AddLanes_MP4.811_ MP7.481_FY05
4. Proposed projects within the same limits (such as safety, sidewalk or drainage projects):	455188-1_13160_131620_SR70_Lighting_ MP0.000_ MP4.793_MP0.000_MP1.761_ FY29_Goes-With 448390-1_13010_US41_Safety_MP3.004_ MP4.277_FY25 XXXXXXXX-1_13010_US41_RRR_MP 3.017_ MP6.298_CA 455188-2_13160_SR70_Safety_MP4.793_ MP6.000_CA
5. Additional R/W Required?	No
6. Level of Community Awareness Plan:	Level 1
7. Are there any bridges within the limits?	Yes; CB Bridge No. 130058, Bridge No. 130144
8. Are there any RR Crossings within the project limits or in the vicinity?	Yes; RR# 624690-D Crossing
9. Are there any Airports within 10-miles?	Yes; Sarasota Bradenton International Airport
10. Storm Water Management Jurisdiction:	Southwest Florida WMD
11. AADT (ESAL Data):	35,000 AADT (2025); Truck % = 7.2 (13162000) 54,300 AADT (2025); Truck % = 8.1 (16160000)
12. Are there any old houses or buildings adjacent to the project?	No
13. Number of Existing Utilities:	15 Utilities: Charter - CATV; City of Bradenton – Sewer, Water; Braden River – Irrigation, Water; Comcast – CATV; Crown Castle NG – Fiber; FDOT D1 ITS – Electric, Fiber; FL Gas Trans – Gas; Florida P&L - Electric; Frontier – CATV, Comm Lines; Manatee County – Traffic Lights/Signals, Reclaimed Water, Sewer, Water; MCI -Comm Lines, Fiber; Teco – Gas; Zayo Group – Fiber; Uniti – Fiber; Tillman – Fiber
14. Preliminary MOPT Considerations: (Construction Office will supply this)	TBD TSM&O Operations (Kat Chinault) - TBD
15. Posted/Design/Target Speed Limits	Posted Speed: 40 MPH (MP 0.013 to MP 1.260) (13162000) – Reduced to 35 MPH with Safety Features 40 MPH (MP 1.260 to MP 1.761 (13162000) 40 MPH (MP 0.000 to MP 1.040) (13160000) 45 MPH (MP 1.040 to MP 2.694) (13160000)

	<p>50 MPH (MP 2.694 to MP 4.793) (13160000)</p> <p>Design Speed: 40 MPH (MP 0.013 to MP 1.260) (13162000) – Reduced to 35 MPH to match proposed posted speed.) 40 MPH (MP 1.260 to MP 1.761) (13162000) 45 MPH (MP 0.000 to MP 3.624) (13160000) 60 MPH (MP 3.624 to MP 4.793) (13160000) – Reduced to 55 MPH to align with I-75 Interchange Project (201032-2)</p> <p>Target Speed = Posted Speed</p> <ul style="list-style-type: none"> •
16. SIS Facility? / Context Classification:	<p>No/ C3R (MP 0.013 - MP 1.761) C3C (MP 0.000 - MP 4.793)</p>
17. Access Classification:	<p>6 (MP 0.013 to MP 1.761) 5 (MP 0.000 to MP 3.445) 3 (MP 3.445 to MP 4.793)</p>
18. Resilient Modulus:	<p>29,000 psi (13162000) 32,000 psi (MP 0.000 to MP 1.000) (MP 2.363 to MP 4.793) (13160000) 27,000 psi (MP 1.000 to MP 2.363) (13160000)</p>
19. Smoothness Class (To be included on Typical Section Sheets in Design Plans):	<p>Not available at this time.</p>
20. List Non-ADA Compliant Curb Ramps Identified by Safety: (All ADA items should be evaluated during design when the field review is conducted).	<p>Reference the Arterial Safety Study for a list of recommended short and long term improvements</p> <p>Broken Sidewalk Connection to Transit Stop near 66th Street</p>
21. Safety Top 20:	<p>Yes</p>
22. State Material Review for Pav't Design:	<p>Concurrence received 7/30/25 (See Pav't Description section for further detail.)</p>

Project Location Map:



Project limits:

The proposed limits of the project begin on SR 70 from East of SR 45 (US 41) at MP 0.013 and proceeds east to 301 Blvd. E. at MP 1.761 (13162000)/ MP 0.000 (13160000) for 1.748 miles and continues east to west of Tara Blvd. at MP 4.793 (13160000) for a total of 6.541 miles.

Project Description:

- This is a RRR project with milling and resurfacing of the existing mainline travel lanes, crossovers, bike lanes/shoulders, turn lanes, keyholes and any side street connections. Other improvements included in this RRR project are
 - Removal of taper at 30th Street E. as shown in the Arterial Safety Report with ramp reconstruction.
 - Removal of goring at Caruso Rd, River Landings Center Entrance, 63rd Street E., 71st Street E. and near 24th Street E. as shown in the Arterial Safety Study with ramp reconstruction.
 - Reducing the turning radius at side streets shown in the Arterial Safety Report with ramp reconstruction and high emphasis markings.
 - Providing hardened centerlines with ramp reconstruction where needed.
 - Repairing the cracked sidewalk to the transit stop near 66th St E.
 - Providing crosswalks with ramps for the East Leg of 5th Street and 22nd Street as shown in the Arterial Safety Study. (Safety Funded)

- Reducing the turning radius of the SW corner at US 301 Blvd as shown in the Arterial Safety Study with ramp reconstruction. (Safety Funded)
- Separating the shared ramps at 22nd Street, 30th St and Natalie Way as shown in the Arterial Safety Study. (Safety Funded)
- Providing RCUTs at 18th Street Blvd, 24th Street E, and 66th Street as shown in the Arterial Safety Study. (Safety Funded)
- Providing three (3) PHB's with speed tables between SR 45 (US 41) to 9th Street E. (Safety Funded)
- Updating signals per the current RRR criteria. See Signalization Scope Items for more details.
- Updating signing and pavement markings. See Signing and Pavement Marking Scope Items for more detail.
- Please reference Approved Typical Section Package (TSP) for lane configurations.
- The Context/Typical Section and Target Speed Meetings were held on 5/28/25 and 5/30/25 respectively. There were no changes made to the existing roadway geometry during the Context Meeting. During the Speed Meeting it was suggested to reduce the design speed and posted speed from 40 mph to 35 mph from SR 45 (US 41) at MP 0.000 to 9th Street E. at MP 1.260 because of the safety features being constructed and the safety funds being used as part of this project. The design speed will remain at 45 mph even though the posted speed is 50 mph from east of Lockwood Rd at MP 2.694 to just west of Caruso Rd at MP 3.624. It was also suggested that the design speed be reduced from 60 mph to 55 mph to be more aligned with the I-75 Interchange project (FPID 201032-2) from just west of Caruso Rd at MP 3.624 to the end of the project at MP 4.793, where the posted speed is 50 mph. The target speeds were set to match the proposed posted speeds.

Roadway Scope Items:

- An Arterial Safety Study was completed along SR 70 in March 5, 2024 from 301 Blvd/15th Street E. at MP 0.000 (13160000) to 87th Street E. at MP 6.000 (13160000). There will also be another Arterial Safety Study completed along SR 70 that will cover the remainder of this RRR project from SR 45 (US 41) at MP 0.000 (13162000) to 301 Blvd/15th Street E. at MP 0.000 (13162000)/MP 1.761 (13160000). The construction of corridor and intersection for our project limits will be included under Safety Project FPID 455188-1, which will be a "Goes-With" to this RRR. The survey for the limits of this RRR will be done under FPID 455188-1. The other safety improvements listed and shown in the Arterial Safety Study within our limits have been included in this scope and LRE. Safety Funds (52-02) will be included for some of these improvements. The safety improvements from west of Tara Blvd at MP 4.793 to 87th Street E. at MP 6.000 will be included under FPID 455188-2, which is not currently in Candidate status. The safety studies will be included in the Project's SharePoint folder and the short and long term recommendations will be summarized in an excel table.
- This proposed SR 70 RRR project segment was milled and resurfaced in:
 - 2014 (MP 0.011 to MP 1.761, Roadway Section 13162) under FPID 429104-1-52-01.
 - 2016 (MP 0.015 to MP 2.495, Roadway Section 13160) under FPID 431207-1-52-01.
 - 2016 (MP 2.495 to MP 4.793, Roadway Section 13160) under FPID 431373-1-52-01.
- The typical section in the as-built plans show (15) fifteen horizontal curves. The typical section in the as-built plans also calls for the cross slope to match existing. Design should re-evaluate cross slopes and superelevation during the plans preparation period to determine if corrections will be required.

- The ESAL calculations as well as Resilient Module value have been provided in the table at the front of this report. The FDOT will need to perform the Pavement Coring Report for the pavement design. Any pavement design used in this scope evaluates preliminary traffic data projections, preliminary projected ESAL's, old as-built information, and is used for budget purposes only. The State Materials office will be reviewing the preliminary pavement design used in this scope to ensure the milling depth used in the LRE is sufficient to cover the project cost until a Pavement Coring Report can be completed.
- There will not be any contingency in the LRE budget for any of the concrete items (curb and gutter, sidewalk, separators, etc.) unless it has been identified in the Arterial Safety Study. Design will need to evaluate those items found and not identified in the study for any repairs/non ADA compliancy and present the list of items to the District Design Engineer for approval. Once approved, then design will look for funding if not already covered.

Pavement Description:

Mainline Milling and Resurfacing:

- For budget purposes, the LRE assumes mainline through lanes, crossovers, and turn lanes throughout the project limits along with the buffered bike lanes from 301 Blvd E. at MP 0.000 to just west of Caruso Rd at MP 3.624 be milled 3 ½" and resurfaced with 2" SP 12.5 (Traffic C, PG 76-22) and 1 ½" FC-12.5 (Traffic C, PG 76-22). The 6-ft buffered bike lane
- The Material Office concurred with our pavement design on July 30, 2025. They noted to keep PG76-22 in SP Layer due to mitigate reflective cracking. They also noted that in the area with no curb and gutter, where the design speed is greater than or equal to 55 mph and open grated friction course exists, the milling depth can be reduced to 2 ¾" and resurfaced with 2" Type SP 12.5 (Traffic C, PG 76-22) and ¾" FC-5 or FC-7.

Side Street Milling and Resurfacing:

- There are 90 existing asphalt side streets shown on the Straight-Line Diagram. For budget purposes, the side streets are recommended to be milled 1½" and resurfaced with 1½" SP-12.5 (Traffic C, PG 76-22). In accordance with the FDM Chapter 214 and the Standard Plans Index 330-001, it is recommended that all side streets be resurfaced to the back of the furthest return, right of way, or existing pavement joint, whichever is greater.

Shoulder Milling and Resurfacing:

- For budget purposes, the LRE assumes the paved shoulders from just west of Caruso Rd at MP 3.624 to the end of the project limits at MP 4.793 be milled 1 ½" and resurfaced with 1 ½" FC-12.5 (Traffic C, PG 76-22). The shoulders are currently marked as bike lanes but will not continue to be marked as bike lanes according to Section 223.2.1 of the FDM.

Keyhole Widening:

Location	Existing keyhole? (Yes or No)	Recommend adding keyhole? (Yes or No)
*WB right turn lane at 5 th St W	No	No
*EB right turn lane at Winn-Dixie Entrance	No	No
*WB right turn lane at Robert Toale Funeral	No	No
WB right turn lane at 301 Blvd E	Yes	N/A
WB right turn lane at 26 th St E	Yes	N/A
EB right turn lane at US 301	Yes	N/A
WB right turn lane at US 301	Yes	N/A
EB right turn lane at 30 th St E	Yes	N/A

EB right turn lane at RaceTrac	Yes	N/A
EB right turn lane at 33 rd St E	Yes	N/A
WB right turn lane at 33 rd St E	Yes	N/A
WB right turn lane at Office Park Blvd	Yes	N/A
EB right turn lane at Publix	Yes	N/A
EB right turn lane at Publix	Yes	N/A
EB right turn lane at Lockwood Ridge Rd	Yes	N/A
WB right turn lane at Lockwood Ridge Rd	Yes	N/A
EB right turn lane at Walmart	Yes	N/A
EB right turn lane at Caruso Rd	Yes	N/A
WB right turn lane at Caruso Rd	Yes	N/A
WB right turn lane at Mavis Tires	Yes	N/A
WB right turn lane at Manatee Technical	Yes	N/A
EB right turn lane at 63 rd St E	Yes	N/A
WB right turn lane at 66 th St E	Yes	N/A
WB right turn lane at 68 th St E	Yes	N/A
EB right turn lane at Fairway Gardens	Yes	N/A
WB right turn lane at 71 st St E	Yes	N/A

*Note: A keyhole is required in accordance with the FDM Chapter 223.1, section 223.2.1.3. However, there are no existing bicycle lanes along the roadway. For this reason, widening for keyhole lanes is not recommended. A design variation will be required for the right turn lanes to remain with no keyhole.

Horizontal Curves/Superelevation:

HORIZONTAL CURVES / SUPERELEVATION								
CURVE NO.	DS	SLD PC MP	SLD PT MP	DEGREE OF CURVATURE/ DEFLECTION ANGLE	AS-BUILT RADIUS (FT)	AS-BUILT SE (e)	SLD SE (e)	FDM SE (e)
APPROX. PI MP 1.350 (SLD 13162)	As-Built 429104-1-52-01 (2015) 40 mph	1.259	1.440	D=0°13'00.00" Δ = 2°13'02.00"	34,731.49	NA	NA	NC
APPROX. PI MP 1.476 (SLD 13162)	As-Built 13160-3514 (1997) 45 mph	1.440	1.512	D=2°02'00.00" Δ = 2°02'16.00"	10,621.26'	NA	NA	0.034
APPROX. MP 1.747 (SLD 13162)	As-Built 13160-3514 (1997) 45 mph	1.734	1.761	D=2°30'00.00" Δ = 8°56'43.00"	7,639.44'	NA	NA	0.041
CURVE 2 C/L CONST. (As-Built-13160-3514) (1997)	As-Built 45 mph	1.877 (calculated)	2.00 (calculated)	D=0°45'00.00" Δ = 4°45'30.00"	7,639.44'	NA	NA	NC
CURVE 1 C/L CONST. (As-Built-13160-3512) (195981-1, 1997)	As-Built 45 mph	1.554 (calculated)	1.669 (calculated)	D=0°30'00.00" Δ = 3°01'32.00"	11,459.16	NC	NA	NC
CURVE 2 C/L CONST. (As-Built-13160-3512) (195981-1, 1997)	As-Built 45 mph	1.652 (calculated)	1.768 (calculated)	D=0°30'00.00" Δ = 3°01'32.00"	11,459.16	NC	NA	NC
CURVE 3 C/L CONST. (As-Built-13160-3512) (195981-1, 1997) & SLD	As-Built 45 mph	2.049	2.15	D=4°00'00.00" Δ = 19°45'00.00"	1,432.40'	0.02	NA	0.061
CURVE 4 C/L CONST. (As-Built-13160-3512) (195981-1, 1997) & SLD	As-Built 45 mph	2.263	2.35	D=4°00'00.00" Δ = 19°59'15.00"	1,432.39'	0.02	NA	0.061
CURVE 1 C/L CONST. (As-Built-13160-3515) (196085-1, 1997)	As-Built 45 mph	2.881 (calculated)	2.997 (calculated)	D=0°30'00.00" Δ = 2°14'47.00"	11,459.16'	NC	NA	NC
CURVE 2 C/L CONST. (As-Built-13160-3515) (196085-1, 1997)	As-Built 45 mph	3.269 (calculated)	3.352 (calculated)	D=0°45'00.00" Δ = 2°12'36.00"	7,639.44'	NC	NA	NC
CURVE 3 C/L CONST. (As-Built-13160-3515) (196085-1, 1997)	As-Built 45 mph	3.454 (calculated)	3.545 (calculated)	D=1°45'00.00" Δ = 8°25'56.00"	3,274.04	NC	NA	0.026
CURVE 2003 C/L CONST. (As-Built-13160-3516) (196059-1, 1997)	As-Built 45 mph	3.595 (calculated)	3.704 (calculated)	D=1°00'00.00" Δ = 5°46'00.00"	5,729.58'	NA	NA	RC
CURVE 2004 C/L CONST. (As-Built-13160-3516) (196059-1, 1997)	As-Built 70 mph	4.327	4.510	D=2°00'00.00" Δ = 19°21'30.00"	2,832.79'	0.072	NA	0.07
CURVE 2005 C/L CONST. (As-Built-13160-3516) (196059-1, 1997)	As-Built 70 mph	4.651	4.721	D=0°20'00.00" Δ = 1°04'14.00"	17,188.74'	NA	NA	NC
CURVE 2006 C/L CONST. (As-Built-13160-3516) (196059-1, 1997)	As-Built 70 mph	4.721	4.773	D=0°20'00.00" Δ = 1°04'14.00"	16,644.85'	NA	NA	NC

Access Management Scope Items:

N/A

Multi-Modal transportation Scope Items:

- There are existing 5-foot concrete sidewalks along both sides of the roadway throughout the project limits. For budget purposes, the LRE assumes there will be no sidewalk replacement, however all detectable warnings will be replaced.
- For budget purposes, the LRE assumes there will be no curb ramp replacements.
- There are no bicycle facilities/keyholes from MP 0.000 to MP 1.761 (Roadway Section 13162).
- There are 19 transit stops within the project limits. For budget purposes, this LRE assumes that all transit stops have existing boarding and alighting areas.
- Transit has requested the repair of cracked sidewalk connection at WB SR 70 at 66th St E, and has been included in the LRE.

Design Variation/Exception:

- A design variation will be required for:
 - No bicycle facility/keyhole per Section 223 of the FDM.
 - Median width less than 22' per Table 210.3.1 of the FDM.
- Possible design variations may be needed for cross slope correction and superelevation if the survey determines that the criteria is not met.

Drainage Scope Items:

- There is a pavement patch adjacent to an inlet on the south side of the roadway along the cemetery property, west of 15th Street East. It is unclear if the inlet/sidewalk is shifting due to a stormwater/pipe issue or adjacent tree roots. This should be reviewed for replacement if maintenance has not been addressed within the project limits.
- Maintenance is reviewing the intersection of 14th Street and SR 70 due to a small flooding issue. Coordination is required to determine the status of the investigation and the design of additional inlets. This may be completed as a separate project.
- There are no other apparent drainage issues; however, include a rainy-day visit to determine whether drainage facilities are functioning correctly and provide positive drainage. Summarize findings and submit to maintenance, including:
 - Back of sidewalk inlets are cleared and functioning
 - FDOT stormwater management facilities
 - Curb lines and/or inlets that need to be cleared of significant debris or sediment

Permitting

- This project is not anticipated to exceed one acre of soil disturbing activities and will not require NPDES coverage under the FDEP Generic Permit for Stormwater Discharge from Large and Small Construction Activities.

SUE Items:

- SUE is anticipated for new signal or lighting foundations.

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.
- It should be noted that the signing inventory was conducted via as-built plans and Google aerial and ground views. The date for the aerial views was May 2023, and ground views were from November 2024. Many of the existing signs were impacted by Hurricanes Helene (September 26, 2024) and Milton (October 9, 2024) before the ground view photos were taken. Some were missing, down, twisted, or otherwise damaged. Many of these may be slated for replacement via federal funding for hurricane damages. All signs are included in this estimate for replacement.
- 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 eleven existing two-post signs within the project. All should be evaluated for possible replacement. In addition, there are several existing single-post cantilever guide signs that should also be evaluated for replacement. If replaced, it appears that there is adequate right-of-way to install at least six of these on standard two-post assemblies. These locations are:
 1. 22nd St. Ct. E NEXT SIGNAL, eastbound SR 70 in the SW corner of 18th St. Blvd. E.
 2. 30th St E. NEXT SIGNAL, eastbound SR 70 in the SE corner of US 301
 3. 33rd St. E. NEXT SIGNAL, eastbound SR 70 east of 30th St. E.
 4. 30th St. E. NEXT SIGNAL, westbound SR 70 west of 33rd St. E.
 5. 33rd St. E. NEXT SIGNAL, westbound SR 70 west of 37th St. E.
 6. 37th St. E. NEXT SIGNAL, westbound SR 70 east of Perida Blvd.

Pavement Marking Scope Items:

- Add crosswalk to the east leg of the signalized intersection of SR 70 and 22nd Street Court.
- Add high emphasis crosswalks to all signalized intersections and side streets. See the Arterial Safety Study for specified side street locations
- Due to the higher speed limit (≥ 50 MPH) beginning at MP 2.694, Audible and Vibratory Treatment (AVT) is required for flush shoulders. Use sinusoidal rumble strips for AVT.
- Include Railroad Dynamic Envelope (RDE) preformed markings at RR Xing #624690-D, MP 0.258 (Sect. 13160000).

Signalization Scope Items:

Signal scoping items and recommendations are limited to the following:

- Required improvements listed within section 114 of the FDM and RDB 22-01.
- Items specifically recommended by District Safety that advance safety countermeasures.
- Recommended replacement of 5-Section heads with a 4-Section head.
- Existing support structures should be evaluated for load capacity and signs of distress and replaced if the existing signal structure is found to be deficient.
- Requests from District TSM&O for ITS related improvements or additions.

Existing traffic signal related features outside the project limits will not be included in the scope.

Existing field conditions described in this report represent the conditions present at the time of scoping. All traffic signal related recommendations listed within this scope shall follow the latest design guidelines as outlined in the FDM, Standard Plans, MUTCD, TEM, MUTS and Structures Design Manual.

The following signalized intersections fall within the limits of the begin and end mile posts and or construction limits for this RRR scope:

Signal location 1:

SR 70 (53rd Ave E)
at 5th St W
MP: 0.503
Signal ID: 540

Signal location 2:

SR 70 (53rd Ave E)
at 9th St E
MP: 1.260
Signal ID: 541

Maintaining Agency: Manatee

Signal location 1:

SR 70 (53rd Ave E)
at 5th St W

District Safety recommendations:

- Add Leading Pedestrian Interval (LPI) controls.
- Provide dilemma zone loops at all intersections for each SR 70 approach lane(s).

District TSM&O recommendations:

- Provide NEMA / ATC standard controller.
- Upgrade existing ethernet switches.

Roadway Safety Audit (RSA) impacts:

- To be provided at a later date.

Additional scoping items and recommended design considerations:

Structural support:

- The existing support structures should be evaluated for load capacity and signs of distress. Evaluate existing mast arm structures in accordance with FDM 261. Replacement shall be considered if the existing signal structure is found to be deficient.

Controller and cabinet:

- District TSM&O is requesting that the controller be upgraded to a NEMA / ATC standard. Should the request be granted, coordinate with the maintaining agency specifications for any sole sourced controller and cabinet related equipment. District One policy is to provide UPS battery backup for all controllers and cabinets. Provide UPS battery backup and coordinate UPS placement and mounting preferences with the maintaining agency.
- District TSM&O is requesting that the existing ethernet switch in the traffic signal cabinet be replaced. Confirm and coordinate equipment compatibility with the Maintaining Agency.

Signal heads:

- Review and coordinate the planned SOP with TSM&O and replace 5-section heads with 4-section heads where appropriate. Follow MUTCD guidance (section 4D.11) for the number of signal faces on an approach and add additional signal heads where necessary. Per FDM 232.1.5, provide backplates with retroreflective borders for all overhead signal heads.

- Recommend replacing or adding backplates on existing signal head assemblies that have missing, damaged or backplates without reflectorized borders. Per FDM 232.1.5, provide backplates with retroreflective borders for all overhead signal heads. Should the structure remain and the addition of backplates negatively affect structural load capacity, consideration should be given for the use of flexible backplates (TEM section 3.9).

Overhead signs:

- Consideration should be given to placing FTP-85-13 signs adjacent to any proposed 4-section heads.
- For enhanced pedestrian safety, consider adding overhead mounted R10-15a signs (per TEM 2.44.3) for all approaches.

Internally illuminated street name signs:

- Should the signal support structures be replaced, provide internally illuminated signs. Follow TEM and FDM guidelines to ensure appropriate letter and sign sizing. Coordinate sign and mounting preferences with the maintaining agency.

Vehicle detection:

- Maintain existing video detection equipment.
- Should the signal support structures be replaced, replacement of the existing video detection equipment is recommended. Coordinate preferences and any sole sourced or proprietary equipment requirements with the maintaining agency.
- Provide dilemma zone loops in advance of the intersection for SR 70 eastbound and westbound.

Traffic monitoring and associated technologies:

- No recommendations provided.

Pedestrian assemblies and detection:

- Timing modifications have been recommended for this intersection for providing leading pedestrian intervals (LPI). Per MUTCD 4E.06, para. 20, consideration should be given to utilizing accessible pedestrian signal detectors (APS).
- Should a new signal support structure be required, the existing mast arm upright mounted pedestrian signal head and detector will be impacted. Replace with new assembly.

Emergency preemption:

- No recommendations provided.

Power source and service type:

- No recommendations provided.

Fiber interconnect: ATMS / TMC communications:

- District TSM&O is requesting replacement of the controller and cabinet. It will be necessary to upgrade, replace or relocate ITS items. Confirm and coordinate equipment compatibility and reconnection methods with the maintaining agency.

Signal location 2:

SR 70 (53rd Ave E)
at 9th St E

District Safety recommendations:

- Add Leading Pedestrian Interval (LPI) controls.
- Provide dilemma zone loops at all intersections for each SR 70 approach lane(s).

District TSM&O recommendations:

- Provide NEMA / ATC standard controller.
- Upgrade existing ethernet switches.

Roadway Safety Audit (RSA) impacts:

- To be provided at a later date.

Additional scoping items and recommended design considerations:

Structural support:

- The existing support structures should be evaluated for load capacity and signs of distress. Evaluate existing mast arm structures in accordance with FDM 261.8. Replacement shall be considered if the existing signal structure is found to be deficient.

Controller and cabinet:

- District TSM&O is requesting that the controller be upgraded to a NEMA / ATC standard. Should the request be granted, coordinate with the maintaining agency specifications for any sole sourced controller and cabinet related equipment. District One policy is to provide UPS battery backup for all controllers and cabinets. Provide UPS battery backup and coordinate UPS placement and mounting preferences with the maintaining agency.
- District TSM&O is requesting that the existing ethernet switch in the traffic signal cabinet be replaced. Confirm and coordinate equipment compatibility with the Maintaining Agency.

Signal heads:

- Recommend replacing or adding backplates on existing signal head assemblies that have missing, damaged or backplates without reflectorized borders. Per FDM 232.1.5, provide backplates with retroreflective borders for all overhead signal heads. Should the structure remain and the addition of backplates negatively affect structural load capacity, consideration should be given for the use of flexible backplates (TEM section 3.9).

Overhead signs:

- For enhanced pedestrian safety, consider adding overhead mounted R10-15a signs (per TEM 2.44.3) for all approaches.

Internally illuminated street name signs:

- Should the signal support structures be replaced, provide internally illuminated signs. Follow TEM and FDM guidelines to ensure appropriate letter and sign sizing. Coordinate sign and mounting preferences with the maintaining agency.

Vehicle detection:

- Maintain existing video detection equipment.
- Should the signal support structures be replaced, replacement of the existing video detection equipment is recommended. Coordinate preferences and any sole sourced or proprietary equipment requirements with the maintaining agency.
- Provide dilemma zone loops in advance of the intersection for SR 70 eastbound and westbound.

Traffic monitoring and associated technologies:

- No recommendations provided.

Pedestrian assemblies and detection:

- Timing modifications have been recommended for this intersection for providing leading pedestrian intervals (LPI). Per MUTCD 4E.06, para. 20, consideration should be given to utilizing accessible pedestrian signal detectors (APS).
- Should a new signal support structure be required, the existing mast arm upright mounted pedestrian signal head and detector will be impacted. Replace with new assembly.

Emergency preemption:

- No recommendations provided.

Power source and service type:

- No recommendations provided.

Fiber interconnect: ATMS / TMC communications:

- District TSM&O is requesting replacement of the controller and cabinet. It will be necessary to upgrade, replace or relocate ITS items. Confirm and coordinate equipment compatibility and reconnection methods with the maintaining agency.

Lighting Scope Items:

To be included under FPID 455188-1

Structural Scope Items:

- Bridge Joints:
 - Bridges with asphalt overlay will include joint repair in the scope. Structures Maintenance has provided a spreadsheet and kmz identifying their location.
 - *MP 2.214 (13162000) – Bridge Culvert 130058.*
 - *No joints present along the bridge.*
 - *No changes anticipated.*
 - For all projects that include bridges that do not have asphalt overlay, design should coordinate with the District Bridge Maintenance office to clarify scope for bridge needs and opportunities for joint replacement while the lane is closed.
 - *MP 3.382 (13162000) – Bridge 130144.*
 - *All joints were ok in the last inspection report.*
 - *Per coordination with the District Structures Maintenance Office, for bridges with little to no joint deficiencies reported, the joint repair work is considered minor and shall be addressed by the Structures Asset Maintenance Contractor, where applicable.*
 - *No action needed.*
 - MP 2.214 (13162000) – Bridge Culvert 130058:
 - No structure/ hazard markers appear to be installed at the EB or WB approaches.
 - MP 3.382 (13162000) - Bridge 130144:
 - No changes anticipated.

Scope Analysis for Social and Environmental Issues

FPID No:	456242-1	County:	Manatee	City:	Bradenton
Project Limits:	SR 70 from east of SR 45 (US 41) to west of Tara Boulevard				
Section:	13162-000 & 13160-000	Length of Project:	1.748 & 4.793		
Begin MP:	0.013 & 0.000	End MP:	1.716 & 4.793		
Scope:	Resurfacing, Restoration, and Rehabilitation (RRR)				
Review Date:	7/7/2025 – B. Feagle	Anticipated NEPA COA:	Type 1 CE / NMSA		

Potential Cost or Schedule Impacts

Social: 7% of the population is designated as limited English proficiency (LEP); therefore, translation services must be provided through verbal interpretation and written translation of vital documents.

Archaeological and Historical Resources: Three National Register of Historic Places (NRHP) listed historic sites are located within the project limits.

Section 4(f): Due to the proximity of NRHP-listed and recreational resources, a Section 4(f) evaluation is anticipated.

Bald eagle: Due to the proximity of nests, design-phase field review is required. No activity may occur within 330' of active nests during nesting season (October 1st to May 15th) without coordination and permits.

Special Designation: Coordination with the District Scenic Highway Coordinator must occur as the project crosses the Gulf to Coast Scenic Highway.

Social and Economic Resources

Social: The minority population accounts for 30% of the population of the area with 13% of the population residing below poverty level.

Land Use Changes: The current land use consists of commercial and services and high-density residential areas; the project is not expected to result in land use changes.

Mobility: The project contains six bus transit routes and is not expected to affect mobility.

Community Cohesion: The project area contains two post offices, cultural and community centers, government buildings, law enforcement facilities, parks, religious centers, and public schools. The project is not expected to affect community services or cohesion.

Relocation Potential: Right-of-way is not required; therefore, relocations are not anticipated.

Farmlands: While farmlands of unique importance are present, the project is not subject to the provisions of the *Farmland Protection Policy Act of 1981* as it is located in the Sarasota-Bradenton urbanized area.

Cultural Resources

Archaeological and Historical Resources: A preliminary review of the Florida Master Site File (FMSF) records revealed two ineligible historic sites, five ineligible resource groups, two historic cemeteries, 10 historic structures, and 172 structures in the area that were built prior to 1970.

Two sites are listed on the NHRP: Johnson Helm House (MA00145) and Egbert Reasoner House (MA00642)

The Manasota Memorial Park Cemetery (MA00905) is eligible for listing and of the 10 historic structures, one is eligible for listing and one has insufficient information.

The project will be reviewed during the Design Phase for involvement with archaeological and historical resources; coordination with the State Historic Preservation Officer (SHPO) will be required.

Recreational and Protected Areas: The John H Marble Recreation Complex is located in the project area. **Section 4(f):** A Section 4(f) evaluation is anticipated.

Natural Resources

Wetlands and Other Surface Waters: Minor wetland areas appear to be present in the project area.

Essential Fish Habitat: Essential Fish Habitat (EFH) is present within the project area; however, the project does not propose in-water work and impacts are not anticipated.

Floodplains: The majority of the project is located outside of the 100-year floodplain.

Sole Source Aquifer: The project area is not associated with a sole source aquifer.

Wild and Scenic Rivers: No Wild and Scenic Rivers are identified within the project area.

Coastal Barrier Resources: No Coastal Barrier Resource Act (CBRA) areas are within the project area.

Protected Species and Habitat: The project area was reviewed for potential impacts to wildlife and habitat resources, including federal and state protected species in accordance with Section 7 of the Endangered Species Act (ESA, 1973), as amended, and Chapter 68A-27 Florida Administrative Code (FAC).

The anticipated determinations of effects utilized applicable species keys and the 2024 FDOT *Programmatic Approach for Minor Transportation Activities* for landscaping (B3); replacement of signs, signals or lighting (B4); drainage repair or improvements (B7); resurfacing pavement (B12), and vegetation management (B14).

Species survey, elevated review, coordination, or consultation is expected for the following species:

Bald eagle: Bald eagle nests MN055 and MN067 are located within 330' of the project.

Due to the lack of suitable habitat and prior occurrences, the project is expected to result in a determination of *no effect/no adverse effect* and no further coordination is expected for the following species:

Federal Species

- American crocodile
- Crested caracara
- Eastern black rail
- Eastern indigo snake
- Everglade snail kite
- Florida grasshopper sparrow
- Florida panther
- Florida scrub-jay
- Red-cockaded woodpecker
- Rufa red knot
- Sea turtles (green, hawksbill)
- West Indian manatee
- Wood stork

State or Non-Listed Species

- Florida sandhill crane
- Florida burrowing owl
- Wading birds (reddish egret, little blue heron, roseate spoonbill, tricolored heron)
- Imperiled Beach Nesting Birds (American oystercatcher, snowy plover, black skimmer, least tern)
- Florida pine snake
- Gopher tortoise
- Florida black bear

Physical Resources

Noise: The project meets the criteria for a Type III project established in 23 CFR 772; therefore, analysis of highway traffic noise is not required.

Air Quality: As this project will not impact traffic volumes, no changes to air quality are anticipated.

Contamination: The project buffer area includes brownfield areas, hazardous waste facilities, petroleum contamination monitoring sites, solid waste facilities, storage tank contamination monitoring sites, and

biomedical waste sites. The project will be reviewed for contamination during the Design Phase; it is anticipated a Contamination Technical Memorandum will be prepared and Level 2 testing may be required.

Utilities and Railroads: The project area includes transmission power lines and an electric substation.

Navigation: No navigable waterways are located within the project limits.

FDOT Long Range Estimating System - Production

R3: Project Details by Sequence Report

Project: 456242-1-52-01

Letting Date: 07/2028

Description: SR 70 FROM EAST OF SR 45 (US 41) TO WEST OF TARA BOULEVARD

District: 01 **County:** 13 MANATEE

Market Area: 10 **Units:** English

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

Design/Build: N **Project Length:** 6.541 MI

Project Manager: NEM-LAT-4P

Version 3 Project Grand Total

\$32,373,974.64

Description: Copy of Version 1 Pre-TRM

Sequence: 1 RSU - Resurfacing, Undivided

Net Length: 1.748 MI
9,229 LF

Description: POP Items from E of SR 45 (US 41) (MP 0.013) to 301 Blvd (15th St) (MP 1.761)

ROADWAY COMPONENT

User Input Data

Description	Value
Number of Lanes	4
Roadway Pavement Width L/R	24.00 / 24.00
Structural Spread Rate	220
Friction Course Spread Rate	165

Pay Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
327-70-2	MILLING EXIST ASPH PAVT,3 1/2" AVG DEPTH	49,223.68 SY	\$4.86	\$239,227.08
334-1-53	SUPERPAVE ASPH CONC, TRAF C, PG76-22	5,414.60 TN	\$188.96	\$1,023,142.82
337-7-83	ASPH CONC FC,TRAFFIC C,FC-12.5,PG 76-22	4,060.95 TN	\$205.33	\$833,834.86

X-Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
327-70-2	MILLING EXIST ASPH PAVT,3 1/2" AVG DEPTH Comment: Additional milling needed for turn-lanes with the project limits	66,537.89 SY	\$4.86	\$323,374.15
327-70-6	MILLING EXIST ASPH PAVT,1 1/2" AVG DEPTH Comment: Milling needed for side street within the project limits	76,500.00 SY	\$4.74	\$362,610.00
334-1-53	SUPERPAVE ASPH CONC, TRAF C, PG76-22 Comment: 1.5" for side streets Additional 2" for turn lanes	13,630.42 TN	\$188.96	\$2,575,604.16
337-7-83	ASPH CONC FC,TRAFFIC C,FC-12.5,PG 76-22 Comment: Additional 1.5" for turn lanes	5,489.39 TN	\$205.33	\$1,127,136.45
527-2	DETECTABLE WARNINGS Comment: Replace all within the project limits	4,008.00 SF	\$33.44	\$134,027.52
546-72-3	GROUND-IN RUMBLE STRIPS, 8" SIN	1.72 GM	\$2,942.45	\$5,061.01
706-1-3	RAISED PAVMT MARK, TYPE B	3,185.00 EA	\$4.61	\$14,682.85

	Comment: Additional RMPs needed within the project limits			
710-12-290	PAINTED PAVT MARK,DUR,YELLOW,ISLAND NOSE	1,200.00 SF	\$4.53	\$5,436.00
	Comment: Paint needed within the project limits			
710-90	PAINTED PAVEMENT MARKINGS, FINAL SURFACE	1.00 LS	\$138,967.38	\$138,967.38
711-11-123	THERMOPLASTIC, STD, WHITE, SOLID, 12"	14,582.00 LF	\$3.79	\$55,265.78
	Comment: Thermo paint needed within the project limits			
711-11-124	THERMOPLASTIC, STD, WHITE, SOLID, 18"	3,190.00 LF	\$5.80	\$18,502.00
	Comment: Thermo paint needed within the project limits			
711-11-125	THERMOPLASTIC, STD, WHITE, SOLID, 24"	3,088.00 LF	\$7.48	\$23,098.24
	Comment: Thermo paint needed within the project limits			
711-11-141	THERMOPLASTIC, STD, WHITE, DOT GUIDE, 6"	4.42 GM	\$2,613.69	\$11,552.51
	Comment: Thermo paint needed within the project limits			
711-11-160	THERMOPLASTIC, STD, WHITE, MESSAGE	11.00 EA	\$151.27	\$1,663.97
	Comment: Thermo paint needed within the project limits			
711-11-170	THERMOPLASTIC, STD, WHITE, ARROW	482.00 EA	\$86.03	\$41,466.46
	Comment: Thermo paint needed within the project limits			
711-11-224	THERMOPLASTIC, STD, YELLOW, SOLID, 18"	1,414.00 LF	\$5.94	\$8,399.16
	Comment: Thermo paint needed within the project limits			
711-11-241	THERMOPLASTIC,STD,YELLOW,DOT / GUIDE, 6"	0.93 GM	\$2,880.53	\$2,678.89
	Comment: Thermo paint needed within the project limits			
711-14-125	THERMOPLASTIC, PREFORM, WHITE, SOLID,24"	7,520.00 LF	\$16.78	\$126,185.60
	Comment: Thermo paint needed within the project limits			
711-14-160	THERMOPLASTIC, PREFORMED, WHITE, MESSAGE	97.00 EA	\$228.91	\$22,204.27
	Comment: Thermo paint needed within the project limits			
711-14-170	THERMOPLASTIC, PREFORMED, WHITE, ARROW	97.00 EA	\$114.09	\$11,066.73
	Comment: Thermo paint needed within the project limits			
711-14-191	THERMOPLASTIC, PREF, WHITE C, RR DYN ENV	160.00 LF	\$4.48	\$716.80
	Comment: Thermo paint needed within the project limits			
711-14-193	THERMOPLASTIC, PREF, WHITE C, RR DYN ENV	270.00 LF	\$8.70	\$2,349.00
	Comment: Thermo paint needed within the project limits			
711-16-101	THERMOPLASTIC, STD-OTH, WHITE, SOLID, 6"	11.24 GM	\$5,874.36	\$66,027.81
	Comment: Additional thermo paint needed within the project limits			
711-16-102	THERMOPLASTIC, STD-OTH, WHITE, SOLID, 8"	1.45 GM	\$7,148.24	\$10,364.95
711-16-231	THERMOPLASTIC, STD-OTH, YELLOW, SKIP, 6"	0.21 GM	\$2,337.42	\$490.86
	Comment: Thermo paint needed within the project limits			
713-103-101	PERMANENT TAPE, WHITE,SOLID,6" CONC BR	0.25 GM	\$41,292.58	\$10,323.14
713-103-181	PERM TAPE, WHITE,10-30 SKIP,6", FOR CONC	0.25 GM	\$14,472.43	\$3,618.11

713-103-201	PERMANENT TAPE, YELLOW,SOLID,6" CONC BR	0.13 GM	\$42,458.67	\$5,519.63
713-103-381	PERM TAPE, BLACK,10-30 SKIP,6", FOR CONC	0.25 GM	\$14,472.43	\$3,618.11

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	3

Pay Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
706-1-3	RAISED PAVMT MARK, TYPE B	1,180.00 EA	\$4.61	\$5,439.80
710-11-101	PAINTED PAVT MARK,STD,WHITE,SOLID,6"	3.50 GM	\$1,592.88	\$5,575.08
710-11-131	PAINTED PAVT MARK,STD,WHITE,SKIP, 6"	5.24 GM	\$576.45	\$3,020.60
711-16-101	THERMOPLASTIC, STD-OTH, WHITE, SOLID, 6"	3.50 GM	\$5,874.36	\$20,560.26
711-16-131	THERMOPLASTIC, STD-OTH, WHITE, SKIP, 6"	5.24 GM	\$1,655.82	\$8,676.50
711-16-201	THERMOPLASTIC, STD- OTH,YELLOW, SOLID, 6"	3.50 GM	\$5,656.66	\$19,798.31
Roadway Component Total				\$7,271,286.86

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	4.00 / 4.00
Paved Outside Shoulder Width L/R	0.00 / 0.00
Structural Spread Rate	0
Friction Course Spread Rate	0
Total Width (T) / 8" Overlap (O)	T
Rumble Strips i 1/2No. of Sides	0

Pay Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
570-1-1	PERFORMANCE TURF	8,203.95 SY	\$3.69	\$30,272.58

Erosion Control

Pay Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
104-18	INLET PROTECTION SYSTEM	54.00 EA	\$184.40	\$9,957.60
107-1	LITTER REMOVAL	4.66 AC	\$71.02	\$330.95
107-2	MOWING	1.70 AC	\$90.77	\$154.31
Shoulder Component Total				\$40,715.44

Sequence 1 Total

\$7,312,002.30

Sequence: 2 RSD - Resurfacing, Divided

Net Length: 3.624 MI
19,135 LF

Description: POP Items from 301 Blvd (15th St) (MP 1.761) to E of Braden River (MP 3.624)

ROADWAY COMPONENT

User Input Data

Description	Value
Number of Lanes	6
Roadway Pavement Width L/R	39.00 / 39.00
Structural Spread Rate	220
Friction Course Spread Rate	165

Pay Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
327-70-2	MILLING EXIST ASPH PAVT,3 1/2" AVG DEPTH	165,834.24 SY	\$4.86	\$805,954.41
334-1-53	SUPERPAVE ASPH CONC, TRAF C, PG76-22	18,241.77 TN	\$188.96	\$3,446,964.86
337-7-83	ASPH CONC FC,TRAFFIC C,FC-12.5,PG 76-22	13,681.32 TN	\$205.33	\$2,809,185.44

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	2,446.00 EA	\$4.61	\$11,276.06
710-11-101	PAINTED PAVT MARK,STD,WHITE,SOLID,6"	7.25 GM	\$1,592.88	\$11,548.38
710-11-131	PAINTED PAVT MARK,STD,WHITE,SKIP, 6"	14.50 GM	\$576.45	\$8,358.52
711-16-101	THERMOPLASTIC, STD-OTH, WHITE, SOLID, 6"	7.25 GM	\$5,874.36	\$42,589.11
711-16-131	THERMOPLASTIC, STD-OTH, WHITE, SKIP, 6"	14.50 GM	\$1,655.82	\$24,009.39
711-16-201	THERMOPLASTIC, STD-OTH,YELLOW, SOLID, 6"	7.25 GM	\$5,656.66	\$41,010.79

Roadway Component Total \$7,200,896.97

SHOULDER COMPONENT

User Input Data

Description	Value
Total Outside Shoulder Width L/R	5.00 / 5.00
Total Outside Shoulder Perf. Turf Width L/R	5.00 / 5.00
Paved Outside Shoulder Width L/R	0.00 / 0.00
Structural Spread Rate	0
Friction Course Spread Rate	0
Total Width (T) / 8" Overlap (O)	T

Rumble Strips $\frac{1}{2}$ No. of Sides 0

Pay Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
570-1-1	PERFORMANCE TURF	21,260.80 SY	\$3.69	\$78,452.35

Erosion Control

Pay Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
104-18	INLET PROTECTION SYSTEM	131.00 EA	\$184.40	\$24,156.40
107-1	LITTER REMOVAL	19.33 AC	\$71.02	\$1,372.82
107-2	MOWING	11.42 AC	\$90.77	\$1,036.59

Shoulder Component Total \$105,018.16

MEDIAN COMPONENT

User Input Data

Description	Value
Total Median Width	20.00
Performance Turf Width	16.00
Total Median Shoulder Width L/R	0.00 / 0.00
Paved Median Shoulder Width L/R	0.00 / 0.00
Structural Spread Rate	0
Friction Course Spread Rate	0
Total Width (T) / 8" Overlap (O)	T
Rumble Strips $\frac{1}{2}$ No. of Sides	0

Pay Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
570-1-1	PERFORMANCE TURF	34,017.28 SY	\$3.69	\$125,523.76
Median Component Total				\$125,523.76

Sequence 2 Total \$7,431,438.89

Sequence: 3 RSD - Resurfacing, Divided

Net Length: 1.169 MI
6,172 LF

Description: POP Items from E of Braden River (MP 3.624) to W of Tara Blvd (MP 4.793)

ROADWAY COMPONENT

User Input Data

Description	Value
Number of Lanes	6
Roadway Pavement Width L/R	36.00 / 36.00
Structural Spread Rate	220
Friction Course Spread Rate	165

Pay Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
327-70-2	MILLING EXIST ASPH PAVT,3 1/2" AVG DEPTH	49,378.56 SY	\$4.86	\$239,979.80
334-1-53	SUPERPAVE ASPH CONC, TRAF C, PG76-22	5,431.64 TN	\$188.96	\$1,026,362.69
337-7-83	ASPH CONC FC,TRAFFIC C,FC-12.5,PG 76-22	4,073.73 TN	\$205.33	\$836,458.98

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	789.00 EA	\$4.61	\$3,637.29
710-11-101	PAINTED PAVT MARK,STD,WHITE,SOLID,6"	2.34 GM	\$1,592.88	\$3,727.34
710-11-131	PAINTED PAVT MARK,STD,WHITE,SKIP, 6"	4.68 GM	\$576.45	\$2,697.79
711-16-101	THERMOPLASTIC, STD-OTH, WHITE, SOLID, 6"	2.34 GM	\$5,874.36	\$13,746.00
711-16-131	THERMOPLASTIC, STD-OTH, WHITE, SKIP, 6"	4.68 GM	\$1,655.82	\$7,749.24
711-16-201	THERMOPLASTIC, STD-OTH,YELLOW, SOLID, 6"	2.34 GM	\$5,656.66	\$13,236.58

Roadway Component Total \$2,147,595.71

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	2.67 / 2.67
Paved Outside Shoulder Width L/R	5.00 / 5.00
Structural Spread Rate	0
Friction Course Spread Rate	165
Total Width (T) / 8" Overlap (O)	T

Rumble Strips \bar{i} $\frac{1}{2}$ No. of Sides 0

Pay Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
327-70-6	MILLING EXIST ASPH PAVT,1 1/2" AVG DEPTH	6,858.13 SY	\$4.74	\$32,507.54
337-7-83	ASPH CONC FC,TRAFFIC C,FC-12.5,PG 76-22	565.80 TN	\$205.33	\$116,175.71
570-1-1	PERFORMANCE TURF	3,662.24 SY	\$3.69	\$13,513.67

Erosion Control

Pay Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
104-10-3	SEDIMENT BARRIER	12,344.64 LF	\$2.39	\$29,503.69
107-1	LITTER REMOVAL	19.84 AC	\$71.02	\$1,409.04
107-2	MOWING	18.42 AC	\$90.77	\$1,671.98
Shoulder Component Total				\$194,781.63

MEDIAN COMPONENT

User Input Data

Description	Value
Total Median Width	40.00
Performance Turf Width	5.34
Total Median Shoulder Width L/R	8.00 / 8.00
Paved Median Shoulder Width L/R	0.00 / 0.00
Structural Spread Rate	0
Friction Course Spread Rate	0
Total Width (T) / 8" Overlap (O)	T
Rumble Strips \bar{i} $\frac{1}{2}$ No. of Sides	0

Pay Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
570-1-1	PERFORMANCE TURF	3,662.24 SY	\$3.69	\$13,513.67
Median Component Total				\$13,513.67

Sequence 3 Total \$2,355,891.01

Sequence: 4 MIS - Miscellaneous Construction

Net Length: 6.541 MI
34,536 LF

Description: Non-Pop Items within the Project Limits

ROADWAY COMPONENT

X-Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
110-1-1	CLEARING & GRUBBING Comment: Gore Removal near 24th Street and at Caruso Rd	0.53 AC	\$99,229.49	\$52,591.63
110-4-10	REMOVAL OF EXIST CONC Comment: Repair of cracked sidewalk transit connection at WB SR 70 at 66th St E (10 SY) + Taper/Gores removal at 30th St, Carusa Rd, and other taper area within the limits (717.44 SY)	727.44 SY	\$50.89	\$37,019.42
120-1	REGULAR EXCAVATION Comment: Taper/Gore removal at 30th St, Carusa Rd, and other Taper area within the limits	1,009.37 CY	\$36.56	\$36,902.57
120-6	EMBANKMENT Comment: Taper/Gore removal at 30th St, Carusa Rd, and other taper area within the limits	721.52 CY	\$52.71	\$38,031.32
520-1-10	CONCRETE CURB & GUTTER, TYPE F Comment: Taper/Gore removal at 30th St, Carusa Rd, and other taper area within the limits	1,135.00 LF	\$42.55	\$48,294.25
520-70	CONCRETE TRAFFIC SEPARATOR, SP- VAR WIDT Comment: Taper/Gore removal at Carusa Rd.	66.44 SY	\$163.03	\$10,831.71
522-1	CONCRETE SIDEWALK AND DRIVEWAYS, 4" Comment: Repair of cracked sidewalk transit connection at WB SR 70 at 66th St E (10 SY) + Taper/Gore removal at 30th St and Caruso Rd (257.11 SY)	267.11 SY	\$89.15	\$23,812.86
522-2	CONCRETE SIDEWALK AND DRIVEWAYS, 6" Comment: Taper/Gore removal at 30th St, Carusa Rd, and other taper area within the limits	213.56 SY	\$114.17	\$24,382.15
570-1-2	PERFORMANCE TURF, SOD Comment: Repair of cracked sidewalk transit connection at WB SR 70 at 66th St E (10.09 SY) + Taper/Gore removal at 30th St, Caruso Rd, and other taper area within the limits (3089.44 SY)	3,099.53 SY	\$6.69	\$20,735.86
Roadway Component Total				\$292,601.77

DRAINAGE COMPONENT

Pay Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
425-2-41	MANHOLES, P-7, <10'	1.00 EA	\$9,559.97	\$9,559.97

X-Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
425-1-331	INLETS, CURB, TYPE P-3, <10' Comment: Replace failing inlet west of 15th street east	1.00 EA	\$9,595.26	\$9,595.26
425-1-362	INLETS, CURB, TYPE P-6, >10' Comment: Taper removal at 30th St, Carusa Rd, and other taper area within the limits	1.00 EA	\$14,938.65	\$14,938.65

430-174-124	PIPE CULV, OPT MATL, ROUND,24"SD	32.00 LF	\$375.79	\$12,025.28
	Comment: Taper removal at 30th St, Carusa Rd, and other taper area within the limits			
	Drainage Component Total			\$46,119.16

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	280.00 EA	\$604.66	\$169,304.80
700-1-112	SINGLE COL GRND SIGN AS, F&I GM, 12-20	75.00 EA	\$1,977.65	\$148,323.75
700-1-600	SINGLE COL GRND SIGN AS, REMOVE	290.00 EA	\$50.32	\$14,592.80
700-2-114	MULTI- COLUMN SIGN, F&I GM, 30.1-50 SF	12.00 EA	\$6,813.05	\$81,756.60
700-2-115	MULTI- COLUMN SIGN, F&I GM, 50.1-100 SF	6.00 EA	\$10,886.05	\$65,316.30
700-2-600	MULTI- COLUMN GROUND SIGN, REMOVE	11.00 EA	\$1,307.26	\$14,379.86

X-Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
700-1-113	SINGLE COL GRND SIGN AS, F&I GM, 20.1-30	2.00 EA	\$2,866.68	\$5,733.36
700-1-912	SNGL GRND SIGN AS, F&I CANTI GM, 12-20	2.00 EA	\$3,306.39	\$6,612.78
700-1-913	SNGL GRND SIGN AS, F&I CANTI GM, 20.1-30	3.00 EA	\$3,768.99	\$11,306.97
700-13-15	RETROREFLECTIVE SIGN STRIP-F&I, 5'	104.00 EA	\$88.82	\$9,237.28
705-10-1	OBJECT MARKER, TYPE 1	6.00 EA	\$241.23	\$1,447.38
705-10-2	OBJECT MARKER, TYPE 2	20.00 EA	\$112.90	\$2,258.00
705-10-3	OBJECT MARKER, TYPE 3	2.00 EA	\$227.77	\$455.54
705-11-1	DELINEATOR, FLEXIBLE TUBULAR	40.00 EA	\$111.62	\$4,464.80

Signing Component Total \$535,190.22

Sequence 4 Total \$873,911.15

Sequence: 5 MIS - Miscellaneous Construction

Net Length: 6.541 MI
34,536 LF

Description: Hardened Center Lines

ROADWAY COMPONENT

X-Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
110-4-10	REMOVAL OF EXIST CONC Comment: Needed at 5th St, 9th St, 30th St, 33rd St, 37th St, 39th St, and 45th St	410.22	SY	\$50.89	\$20,876.10
120-1	REGULAR EXCAVATION Comment: Needed at 30th St, 33rd St, 37th St, 39th St, and 45th St	60.37	CY	\$36.56	\$2,207.13
334-1-53	SUPERPAVE ASPH CONC, TRAF C, PG76-22 Comment: Needed at 39th St.	0.77	TN	\$188.96	\$145.50
337-7-83	ASPH CONC FC, TRAFFIC C, FC-12.5, PG 76-22 Comment: Needed at 39th St.	0.39	TN	\$205.33	\$80.08
520-1-10	CONCRETE CURB & GUTTER, TYPE F Comment: Needed at 5th St, 9th St, 30th St, 33rd St, 37th St, 39th St, and 45th St	553.00	LF	\$42.55	\$23,530.15
520-5-11	TRAF SEP CONC-TYPE I, 4' WIDE Comment: Needed at 39th St.	2.00	LF	\$127.40	\$254.80
522-1	CONCRETE SIDEWALK AND DRIVEWAYS, 4" Comment: Needed at 30th St, 33rd St, 37th St, 39th St, and 45th St	178.44	SY	\$89.15	\$15,907.93
522-2	CONCRETE SIDEWALK AND DRIVEWAYS, 6" Comment: Needed at 5th St, 9th St, 30th St, 33rd St, 37th St, 39th St, and 45th St	274.56	SY	\$114.17	\$31,346.52
570-1-2	PERFORMANCE TURF, SOD Comment: Needed at 5th St, 9th St, 30th St, 33rd St, 37th St, 39th St, and 45th St	183.77	SY	\$6.69	\$1,229.42
704-1-4	TUBULAR MARKER, 36" YELLOW POST Comment: Needed at 5th St, 9th St, 301 Blvd, 22nd St, US 301, 30th St, 33rd St, 37th St, 39th, 45th St, Natalie Way, and Caruso Rd	341.00	EA	\$241.90	\$82,487.90
711-11-224	THERMOPLASTIC, STD, YELLOW, SOLID, 18"	211.00	LF	\$5.94	\$1,253.34
711-16-201	THERMOPLASTIC, STD-OTH, YELLOW, SOLID, 6" Comment: Needed at 5th St, 9th St, 301 Blvd, 22nd St, US 301, 30th St, 33rd St, 37th St, 39th, 45th St, Natalie Way, and Caruso Rd	0.34	GM	\$5,656.66	\$1,923.26

EX-Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
921-703-100	CHANNELIZING CURB, CENTERLINE Comment: Needed at 301 Blvd, 22nd St, US 301, 33rd St, 39th St, and 45th St	45.00	LF	\$100.00	\$4,500.00

Roadway Component Total

\$185,742.13

SIGNALIZATIONS COMPONENT

Signalization 1

Description		Value
Type		Miscellaneous
Multiplier		1
Description	5th Street E	

X-Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
630-2-11	CONDUIT, F& I, OPEN TRENCH	32.00	LF	\$14.87	\$475.84
630-2-12	CONDUIT, F& I, DIRECTIONAL BORE	75.00	LF	\$29.76	\$2,232.00
632-7-1	SIGNAL CABLE- NEW OR RECO, FUR & INSTALL	1.00	PI	\$16,064.82	\$16,064.82
632-7-6	SIGNAL CABLE, REMOVE-INTERSECTION	1.00	PI	\$1,352.70	\$1,352.70
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24"	6.00	EA	\$1,201.23	\$7,207.38
646-1-11	ALUMINUM SIGNALS POLE, PEDESTAL	2.00	EA	\$2,254.41	\$4,508.82
646-1-60	ALUMINUM SIGNALS POLE, REMOVE	2.00	EA	\$528.41	\$1,056.82
653-1-11	PEDESTRIAN SIGNAL, F&I LED COUNT, 1 WAY	2.00	AS	\$1,051.99	\$2,103.98
665-1-11	PEDESTRIAN DETECTOR, F&I, STANDARD	2.00	EA	\$452.93	\$905.86

Signalization 2

Description		Value
Type		Miscellaneous
Multiplier		1
Description	9th Street E	

X-Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
630-2-11	CONDUIT, F& I, OPEN TRENCH	60.00	LF	\$14.87	\$892.20
630-2-12	CONDUIT, F& I, DIRECTIONAL BORE	185.00	LF	\$29.76	\$5,505.60
632-7-1	SIGNAL CABLE- NEW OR RECO, FUR & INSTALL	1.00	PI	\$16,064.82	\$16,064.82
632-7-6	SIGNAL CABLE, REMOVE-INTERSECTION	1.00	PI	\$1,352.70	\$1,352.70
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24"	15.00	EA	\$1,201.23	\$18,018.45
646-1-11	ALUMINUM SIGNALS POLE, PEDESTAL	6.00	EA	\$2,254.41	\$13,526.46
646-1-60	ALUMINUM SIGNALS POLE, REMOVE	6.00	EA	\$528.41	\$3,170.46
653-1-11	PEDESTRIAN SIGNAL, F&I LED COUNT, 1 WAY	6.00	AS	\$1,051.99	\$6,311.94
665-1-11	PEDESTRIAN DETECTOR, F&I, STANDARD	6.00	EA	\$452.93	\$2,717.58
671-2-40	TRAFFIC CONTROLLER, MODIFY	1.00	EA	\$1,856.26	\$1,856.26

Signalization 6

Description		Value
Type		Miscellaneous
Multiplier		1
Description	30th Street East	

X-Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
630-2-11	CONDUIT, F& I, OPEN TRENCH	25.00	LF	\$14.87	\$371.75
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24"	2.00	EA	\$1,201.23	\$2,402.46
646-1-11	ALUMINUM SIGNALS POLE, PEDESTAL	1.00	EA	\$2,254.41	\$2,254.41
	Comment: Replace ramp on NW corner				
646-1-60	ALUMINUM SIGNALS POLE, REMOVE	1.00	EA	\$528.41	\$528.41
	Comment: Replace ramp on NW corner				
653-1-11	PEDESTRIAN SIGNAL, F&I LED COUNT, 1 WAY	1.00	AS	\$1,051.99	\$1,051.99
	Comment: Replace ramp on NW corner				
653-1-60	PEDESTRIAN SIGNAL, REMOVE	1.00	AS	\$186.97	\$186.97
	Comment: Replace ramp on NW corner				
665-1-11	PEDESTRIAN DETECTOR, F&I, STANDARD	1.00	EA	\$452.93	\$452.93
	Comment: Replace ramp on NW corner				

Signalization 7

Description	Value
Type	Miscellaneous
Multiplier	1
Description	33rd Street E

X-Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
630-2-11	CONDUIT, F& I, OPEN TRENCH	19.00	LF	\$14.87	\$282.53
630-2-12	CONDUIT, F& I, DIRECTIONAL BORE	103.00	LF	\$29.76	\$3,065.28
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24"	4.00	EA	\$1,201.23	\$4,804.92
646-1-11	ALUMINUM SIGNALS POLE, PEDESTAL	2.00	EA	\$2,254.41	\$4,508.82
	Comment: Replace ramp on SW and SE corners				
646-1-60	ALUMINUM SIGNALS POLE, REMOVE	2.00	EA	\$528.41	\$1,056.82
	Comment: Replace ramp on SW and SE corners				
653-1-11	PEDESTRIAN SIGNAL, F&I LED COUNT, 1 WAY	2.00	AS	\$1,051.99	\$2,103.98
	Comment: Replace ramp on SW and SE corners				
665-1-11	PEDESTRIAN DETECTOR, F&I, STANDARD	2.00	EA	\$452.93	\$905.86
	Comment: Replace ramp on SW and SE corners				

Signalization 8

Description	Value
Type	Miscellaneous
Multiplier	1
Description	37th Street E

X-Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
630-2-11	CONDUIT, F& I, OPEN TRENCH	23.00	LF	\$14.87	\$342.01
630-2-12	CONDUIT, F& I, DIRECTIONAL BORE	94.00	LF	\$29.76	\$2,797.44
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24"	5.00	EA	\$1,201.23	\$6,006.15

646-1-11	ALUMINUM SIGNALS POLE, PEDESTAL	2.00 EA	\$2,254.41	\$4,508.82
	Comment: Replace ramp on NE and NW corners			
646-1-60	ALUMINUM SIGNALS POLE, REMOVE	2.00 EA	\$528.41	\$1,056.82
	Comment: Replace ramp on NE and NW corners			
653-1-11	PEDESTRIAN SIGNAL, F&I LED COUNT, 1 WAY	2.00 AS	\$1,051.99	\$2,103.98
	Comment: Replace ramp on NE and NW corners			
665-1-11	PEDESTRIAN DETECTOR, F&I, STANDARD	2.00 EA	\$452.93	\$905.86
	Comment: Replace ramp on NE and NW corners			

Signalization 9

Description	Value
Type	Miscellaneous
Multiplier	1
Description	39th Street E

X-Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
630-2-11	CONDUIT, F& I, OPEN TRENCH	24.00	LF	\$14.87	\$356.88
630-2-12	CONDUIT, F& I, DIRECTIONAL BORE	270.00	LF	\$29.76	\$8,035.20
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24"	3.00	EA	\$1,201.23	\$3,603.69
646-1-11	ALUMINUM SIGNALS POLE, PEDESTAL	1.00	EA	\$2,254.41	\$2,254.41
	Comment: Replace ramp on SE corner				
646-1-60	ALUMINUM SIGNALS POLE, REMOVE	1.00	EA	\$528.41	\$528.41
	Comment: Replace ramp on SE corner				
653-1-11	PEDESTRIAN SIGNAL, F&I LED COUNT, 1 WAY	1.00	AS	\$1,051.99	\$1,051.99
	Comment: Replace ramp on SE corner				
665-1-11	PEDESTRIAN DETECTOR, F&I, STANDARD	1.00	EA	\$452.93	\$452.93
	Comment: Replace ramp on SE corner				

Signalization 10

Description	Value
Type	Miscellaneous
Multiplier	1
Description	45th Street E

X-Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
630-2-12	CONDUIT, F& I, DIRECTIONAL BORE	125.00	LF	\$29.76	\$3,720.00
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24"	8.00	EA	\$1,201.23	\$9,609.84
646-1-11	ALUMINUM SIGNALS POLE, PEDESTAL	4.00	EA	\$2,254.41	\$9,017.64
	Comment: Replace ramp on NW, NE, and SW corners				
646-1-60	ALUMINUM SIGNALS POLE, REMOVE	4.00	EA	\$528.41	\$2,113.64
	Comment: Replace ramp on NW, NE, and SW corners				
653-1-11	PEDESTRIAN SIGNAL, F&I LED COUNT, 1 WAY	4.00	AS	\$1,051.99	\$4,207.96

665-1-11	Comment: Replace ramp on NW, NE, and SW corners PEDESTRIAN DETECTOR, F&I, STANDARD	4.00 EA	\$452.93	\$1,811.72
	Comment: Replace ramp on NW, NE, and SW corners			
	Signalizations Component Total			\$193,787.21
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	Sequence 5 Total			\$379,529.34
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Sequence: 6 MIS - Miscellaneous Construction

Net Length: 6.541 MI
34,536 LF

Description: RRR Signal Updates

SIGNING COMPONENT

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
700-3-210	SIGN PANEL, F&I OM, 501-600 SF	9.00	EA	\$22,242.60	\$200,183.40
Signing Component Total					\$200,183.40

SIGNALIZATIONS COMPONENT

Signalization 1

Description	Value
Type	Miscellaneous
Multiplier	1
Description	5th Street E

X-Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
611-1-1	ITSFM SUBSURFACE DOCUMENTATION- PROJ LEN	1.75	MI	\$2,494.41	\$4,365.22
611-2-1	ITSFM LOCATION DOCUMENTATION- INTERS	1.00	EA	\$1,515.29	\$1,515.29
650-1-16	VEH TRAF SIGNAL,F&I ALUMINUM, 4 S 1 W	1.00	AS	\$2,493.35	\$2,493.35
650-1-60	VEH TRAF SIGNAL, REMOVE-POLES TO REMAIN	1.00	AS	\$196.88	\$196.88
650-2-102	VEHIC SIGNAL AUX, REP/RETROFIT- F&I, BAC	1.00	EA	\$970.38	\$970.38
671-2-40	TRAFFIC CONTROLLER, MODIFY	1.00	EA	\$1,856.26	\$1,856.26

Signalization 3

Description	Value
Type	Miscellaneous
Multiplier	1
Description	US 301 Blvd

X-Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
630-2-11	CONDUIT, F& I, OPEN TRENCH	430.00	LF	\$14.87	\$6,394.10
630-2-12	CONDUIT, F& I, DIRECTIONAL BORE	195.00	LF	\$29.76	\$5,803.20
632-7-1	SIGNAL CABLE- NEW OR RECO, FUR & INSTALL	1.00	PI	\$16,064.82	\$16,064.82
632-7-6	SIGNAL CABLE, REMOVE-INTERSECTION	1.00	PI	\$1,352.70	\$1,352.70
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24"	6.00	EA	\$1,201.23	\$7,207.38
650-1-14	VEH TRAF SIGNAL,F&I ALUMINUM, 3 S 1 W	1.00	AS	\$2,185.30	\$2,185.30
650-1-16	VEH TRAF SIGNAL,F&I ALUMINUM, 4 S 1 W	2.00	AS	\$2,493.35	\$4,986.70
650-1-60	VEH TRAF SIGNAL, REMOVE-POLES TO REMAIN	2.00	AS	\$196.88	\$393.76
660-1-109	LOOP DETECTOR INDUCTIVE, F&I, TYPE 9	6.00	EA	\$436.25	\$2,617.50

660-2-102	LOOP ASSEMBLY, F&I, TYPE B	12.00 AS	\$1,524.18	\$18,290.16
671-2-40	TRAFFIC CONTROLLER, MODIFY	1.00 EA	\$1,856.26	\$1,856.26

Signalization 4

Description		Value
Type		Miscellaneous
Multiplier		1
Description	22nd Street E	

X-Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
630-2-11	CONDUIT, F& I, OPEN TRENCH	390.00	LF	\$14.87	\$5,799.30
630-2-12	CONDUIT, F& I, DIRECTIONAL BORE	240.00	LF	\$29.76	\$7,142.40
632-7-1	SIGNAL CABLE- NEW OR RECO, FUR & INSTALL	1.00	PI	\$16,064.82	\$16,064.82
632-7-6	SIGNAL CABLE, REMOVE- INTERSECTION	1.00	PI	\$1,352.70	\$1,352.70
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24"	6.00	EA	\$1,201.23	\$7,207.38
650-2-102	VEHIC SIGNAL AUX, REP/RETROFIT- F&I, BAC	12.00	EA	\$970.38	\$11,644.56
660-1-109	LOOP DETECTOR INDUCTIVE, F&I, TYPE 9	6.00	EA	\$436.25	\$2,617.50
660-2-102	LOOP ASSEMBLY, F&I, TYPE B	12.00	AS	\$1,524.18	\$18,290.16
671-2-40	TRAFFIC CONTROLLER, MODIFY	1.00	EA	\$1,856.26	\$1,856.26

Signalization 5

Description		Value
Type		Miscellaneous
Multiplier		1
Description	US 301	

X-Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
630-2-11	CONDUIT, F& I, OPEN TRENCH	650.00	LF	\$14.87	\$9,665.50
630-2-12	CONDUIT, F& I, DIRECTIONAL BORE	335.00	LF	\$29.76	\$9,969.60
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24"	9.00	EA	\$1,201.23	\$10,811.07
660-1-109	LOOP DETECTOR INDUCTIVE, F&I, TYPE 9	6.00	EA	\$436.25	\$2,617.50
660-2-102	LOOP ASSEMBLY, F&I, TYPE B	12.00	AS	\$1,524.18	\$18,290.16
671-2-40	TRAFFIC CONTROLLER, MODIFY	1.00	EA	\$1,856.26	\$1,856.26

Signalization 6

Description		Value
Type		Miscellaneous
Multiplier		1
Description	30th Street E	

X-Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
630-2-11	CONDUIT, F& I, OPEN TRENCH	497.00	LF	\$14.87	\$7,390.39
630-2-12	CONDUIT, F& I, DIRECTIONAL BORE	397.00	LF	\$29.76	\$11,814.72

632-7-1	SIGNAL CABLE- NEW OR RECO, FUR & INSTALL	1.00 PI	\$16,064.82	\$16,064.82
632-7-6	SIGNAL CABLE, REMOVE- INTERSECTION	1.00 PI	\$1,352.70	\$1,352.70
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24"	15.00 EA	\$1,201.23	\$18,018.45
646-1-11	ALUMINUM SIGNALS POLE, PEDESTAL	4.00 EA	\$2,254.41	\$9,017.64
	Comment: For removal of taper on NE corner and shared ped pole on SW corner			
646-1-60	ALUMINUM SIGNALS POLE, REMOVE	3.00 EA	\$528.41	\$1,585.23
	Comment: For removal of taper on NE corner and shared ped pole on SW corner			
653-1-11	PEDESTRIAN SIGNAL, F&I LED COUNT, 1 WAY	4.00 AS	\$1,051.99	\$4,207.96
	Comment: For removal of taper on NE corner and shared ped pole on SW corner			
660-1-109	LOOP DETECTOR INDUCTIVE, F&I, TYPE 9	6.00 EA	\$436.25	\$2,617.50
660-2-102	LOOP ASSEMBLY, F&I, TYPE B	12.00 AS	\$1,524.18	\$18,290.16
665-1-11	PEDESTRIAN DETECTOR, F&I, STANDARD	4.00 EA	\$452.93	\$1,811.72
	Comment: For removal of taper on NE corner and shared ped pole on SW corner			
671-2-40	TRAFFIC CONTROLLER, MODIFY	1.00 EA	\$1,856.26	\$1,856.26

Signalization 7

Description	Value
Type	Miscellaneous
Multiplier	1
Description	33rd Street E

X-Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
630-2-11	CONDUIT, F& I, OPEN TRENCH	441.00	LF	\$14.87	\$6,557.67
630-2-12	CONDUIT, F& I, DIRECTIONAL BORE	381.00	LF	\$29.76	\$11,338.56
632-7-1	SIGNAL CABLE- NEW OR RECO, FUR & INSTALL	1.00	PI	\$16,064.82	\$16,064.82
632-7-6	SIGNAL CABLE, REMOVE- INTERSECTION	1.00	PI	\$1,352.70	\$1,352.70
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24"	10.00	EA	\$1,201.23	\$12,012.30
650-2-102	VEHIC SIGNAL AUX, REP/RETROFIT- F&I, BAC	1.00	EA	\$970.38	\$970.38
660-1-109	LOOP DETECTOR INDUCTIVE, F&I, TYPE 9	6.00	EA	\$436.25	\$2,617.50
660-2-102	LOOP ASSEMBLY, F&I, TYPE B	12.00	AS	\$1,524.18	\$18,290.16
671-2-40	TRAFFIC CONTROLLER, MODIFY	1.00	EA	\$1,856.26	\$1,856.26

Signalization 8

Description	Value
Type	Miscellaneous
Multiplier	1
Description	37th Street E

X-Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
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630-2-11	CONDUIT, F& I, OPEN TRENCH	567.00 LF	\$14.87	\$8,431.29
630-2-12	CONDUIT, F& I, DIRECTIONAL BORE	157.00 LF	\$29.76	\$4,672.32
632-7-1	SIGNAL CABLE- NEW OR RECO, FUR & INSTALL	1.00 PI	\$16,064.82	\$16,064.82
632-7-6	SIGNAL CABLE, REMOVE-INTERSECTION	1.00 PI	\$1,352.70	\$1,352.70
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24"	9.00 EA	\$1,201.23	\$10,811.07
650-2-102	VEHIC SIGNAL AUX, REP/RETROFIT- F&I, BAC	6.00 EA	\$970.38	\$5,822.28
660-1-109	LOOP DETECTOR INDUCTIVE, F&I, TYPE 9	6.00 EA	\$436.25	\$2,617.50
660-2-102	LOOP ASSEMBLY, F&I, TYPE B	12.00 AS	\$1,524.18	\$18,290.16
671-2-40	TRAFFIC CONTROLLER, MODIFY	1.00 EA	\$1,856.26	\$1,856.26

Signalization 9

Description	Value
Type	Miscellaneous
Multiplier	1
Description	39th Street E

X-Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
630-2-11	CONDUIT, F& I, OPEN TRENCH	600.00 LF	\$14.87	\$8,922.00
630-2-12	CONDUIT, F& I, DIRECTIONAL BORE	270.00 LF	\$29.76	\$8,035.20
632-7-1	SIGNAL CABLE- NEW OR RECO, FUR & INSTALL	1.00 PI	\$16,064.82	\$16,064.82
632-7-6	SIGNAL CABLE, REMOVE-INTERSECTION	1.00 PI	\$1,352.70	\$1,352.70
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24"	10.00 EA	\$1,201.23	\$12,012.30
660-1-109	LOOP DETECTOR INDUCTIVE, F&I, TYPE 9	6.00 EA	\$436.25	\$2,617.50
660-2-102	LOOP ASSEMBLY, F&I, TYPE B	12.00 AS	\$1,524.18	\$18,290.16
671-2-40	TRAFFIC CONTROLLER, MODIFY	1.00 EA	\$1,856.26	\$1,856.26

Signalization 10

Description	Value
Type	Miscellaneous
Multiplier	1
Description	45th Street E

X-Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
630-2-11	CONDUIT, F& I, OPEN TRENCH	560.00 LF	\$14.87	\$8,327.20
630-2-12	CONDUIT, F& I, DIRECTIONAL BORE	323.00 LF	\$29.76	\$9,612.48
632-7-1	SIGNAL CABLE- NEW OR RECO, FUR & INSTALL	1.00 PI	\$16,064.82	\$16,064.82
632-7-6	SIGNAL CABLE, REMOVE-INTERSECTION	1.00 PI	\$1,352.70	\$1,352.70
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24"	12.00 EA	\$1,201.23	\$14,414.76
649-21-21	STEEL MAST ARM ASSEMBLY, F&I, 78'	1.00 EA	\$114,169.86	\$114,169.86

Comment: Near Side heads on SE corner needed

650-1-14	VEH TRAF SIGNAL,F&I ALUMINUM, 3 S 1 W	3.00 AS	\$2,185.30	\$6,555.90
650-1-16	VEH TRAF SIGNAL,F&I ALUMINUM, 4 S 1 W	2.00 AS	\$2,493.35	\$4,986.70
650-1-60	VEH TRAF SIGNAL, REMOVE- POLES TO REMAIN	1.00 AS	\$196.88	\$196.88
660-1-109	LOOP DETECTOR INDUCTIVE, F&I, TYPE 9	6.00 EA	\$436.25	\$2,617.50
660-2-102	LOOP ASSEMBLY, F&I, TYPE B	12.00 AS	\$1,524.18	\$18,290.16
671-2-40	TRAFFIC CONTROLLER, MODIFY	1.00 EA	\$1,856.26	\$1,856.26

Signalization 11

Description	Value
Type	Miscellaneous
Multiplier	1
Description	Natalie Way

X-Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
630-2-11	CONDUIT, F& I, OPEN TRENCH	649.00	LF	\$14.87	\$9,650.63
630-2-12	CONDUIT, F& I, DIRECTIONAL BORE	301.00	LF	\$29.76	\$8,957.76
632-7-1	SIGNAL CABLE- NEW OR RECO, FUR & INSTALL	1.00	PI	\$16,064.82	\$16,064.82
632-7-6	SIGNAL CABLE, REMOVE- INTERSECTION	1.00	PI	\$1,352.70	\$1,352.70
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24"	29.00	EA	\$1,201.23	\$34,835.67
646-1-11	ALUMINUM SIGNALS POLE, PEDESTAL	8.00	EA	\$2,254.41	\$18,035.28
	Comment: For Shared Ped Poles				
646-1-60	ALUMINUM SIGNALS POLE, REMOVE	3.00	EA	\$528.41	\$1,585.23
	Comment: For Shared Ped Poles				
650-1-14	VEH TRAF SIGNAL,F&I ALUMINUM, 3 S 1 W	2.00	AS	\$2,185.30	\$4,370.60
650-1-16	VEH TRAF SIGNAL,F&I ALUMINUM, 4 S 1 W	2.00	AS	\$2,493.35	\$4,986.70
650-1-60	VEH TRAF SIGNAL, REMOVE- POLES TO REMAIN	2.00	AS	\$196.88	\$393.76
653-1-11	PEDESTRIAN SIGNAL, F&I LED COUNT, 1 WAY	8.00	AS	\$1,051.99	\$8,415.92
	Comment: For Shared Ped Poles				
653-1-60	PEDESTRIAN SIGNAL, REMOVE	6.00	AS	\$186.97	\$1,121.82
	Comment: For Shared Ped Poles				
660-1-109	LOOP DETECTOR INDUCTIVE, F&I, TYPE 9	6.00	EA	\$436.25	\$2,617.50
660-2-102	LOOP ASSEMBLY, F&I, TYPE B	12.00	AS	\$1,524.18	\$18,290.16
665-1-11	PEDESTRIAN DETECTOR, F&I, STANDARD	8.00	EA	\$452.93	\$3,623.44
	Comment: For Shared Ped Poles				
665-1-60	PEDESTRIAN DETECTOR, REMOVE	2.00	EA	\$45.89	\$91.78
671-2-40	TRAFFIC CONTROLLER, MODIFY	1.00	EA	\$1,856.26	\$1,856.26

Signalization 12

Description	Value
Type	Miscellaneous

Multiplier
Description

Caruso Road

1

X-Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
630-2-11	CONDUIT, F& I, OPEN TRENCH	820.00	LF	\$14.87	\$12,193.40
630-2-12	CONDUIT, F& I, DIRECTIONAL BORE	454.00	LF	\$29.76	\$13,511.04
632-7-1	SIGNAL CABLE- NEW OR RECO, FUR & INSTALL	1.00	PI	\$16,064.82	\$16,064.82
632-7-6	SIGNAL CABLE, REMOVE- INTERSECTION	1.00	PI	\$1,352.70	\$1,352.70
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24"	19.00	EA	\$1,201.23	\$22,823.37
646-1-11	ALUMINUM SIGNALS POLE, PEDESTAL	4.00	EA	\$2,254.41	\$9,017.64
	Comment: Removal of tapers on NW and SE Corners				
646-1-60	ALUMINUM SIGNALS POLE, REMOVE	4.00	EA	\$528.41	\$2,113.64
	Comment: Removal of tapers on NW and SE Corners				
649-21-15	STEEL MAST ARM ASSEMBLY, F&I, 70'	1.00	EA	\$92,918.46	\$92,918.46
	Comment: Near side heads on SB corner is needed				
650-1-14	VEH TRAF SIGNAL,F&I ALUMINUM, 3 S 1 W	2.00	AS	\$2,185.30	\$4,370.60
650-1-16	VEH TRAF SIGNAL,F&I ALUMINUM, 4 S 1 W	1.00	AS	\$2,493.35	\$2,493.35
653-1-11	PEDESTRIAN SIGNAL, F&I LED COUNT, 1 WAY	4.00	AS	\$1,051.99	\$4,207.96
	Comment: Removal of tapers on NW and SE Corners				
660-1-109	LOOP DETECTOR INDUCTIVE, F&I, TYPE 9	6.00	EA	\$436.25	\$2,617.50
660-2-102	LOOP ASSEMBLY, F&I, TYPE B	12.00	AS	\$1,524.18	\$18,290.16
665-1-11	PEDESTRIAN DETECTOR, F&I, STANDARD	4.00	EA	\$452.93	\$1,811.72
	Comment: Removal of tapers on NW and SE Corners				
671-2-40	TRAFFIC CONTROLLER, MODIFY	1.00	EA	\$1,856.26	\$1,856.26

Signalization 13

Description	Value
Type	Miscellaneous
Multiplier	1
Description	Tara Blvd / Creekwood Blvd

X-Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
665-1-12	PEDESTRIAN DETECTOR, F&I, ACCESSIBLE	8.00	EA	\$1,962.90	\$15,703.20
	Comment: APS Request				
665-1-60	PEDESTRIAN DETECTOR, REMOVE	8.00	EA	\$45.89	\$367.12
	Comment: APS Request				
Signalizations Component Total					\$1,064,299.86

Sequence 6 Total

\$1,264,483.26

Sequence: 7 MIS - Miscellaneous Construction

Net Length: 6.541 MI
34,536 LF

Description: Safety Side Street Radii Return Adjustments

ROADWAY COMPONENT

X-Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
110-4-10	REMOVAL OF EXIST CONC	3,431.56	SY	\$50.89	\$174,632.09
120-1	REGULAR EXCAVATION	187.70	CY	\$36.56	\$6,862.31
120-6	EMBANKMENT	128.59	CY	\$52.71	\$6,777.98
520-1-10	CONCRETE CURB & GUTTER, TYPE F	3,556.00	LF	\$42.55	\$151,307.80
522-1	CONCRETE SIDEWALK AND DRIVEWAYS, 4"	1,876.00	SY	\$89.15	\$167,245.40
522-2	CONCRETE SIDEWALK AND DRIVEWAYS, 6"	933.33	SY	\$114.17	\$106,558.29
527-2	DETECTABLE WARNINGS	224.00	SF	\$33.44	\$7,490.56
570-1-2	PERFORMANCE TURF, SOD	1,179.11	SY	\$6.69	\$7,888.25
711-14-125	THERMOPLASTIC, PREFORM, WHITE, SOLID,24"	1,792.00	LF	\$16.78	\$30,069.76
Roadway Component Total					\$658,832.44

DRAINAGE COMPONENT

X-Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
425-1-355	INLETS, CURB, TYPE P-5, PARTIAL	2.00	EA	\$10,282.49	\$20,564.98
	Comment: Needed at 18th St and 19th St				
425-2-43	MANHOLES, P-7, PARTIAL	2.00	EA	\$7,202.72	\$14,405.44
	Comment: Needed at 19th St and 18 St Blvd				
430-175-124	PIPE CULV, OPT MATL, ROUND, 24"S/CD	32.00	LF	\$378.46	\$12,110.72
Drainage Component Total					\$47,081.14

Sequence 7 Total

\$705,913.58

Sequence: 8 MIS - Miscellaneous Construction

Net Length: 6.541 MI
34,536 LF

Description: Safety Funded (Phase 52-02)

ROADWAY COMPONENT

X-Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
110-1-1	CLEARING & GRUBBING Comment: Median Openings Modification at 18th St Blvd, 24th St and 66th St	0.53	AC	\$99,229.49	\$52,591.63
110-4-10	REMOVAL OF EXIST CONC Comment: Crosswalk/ramps on east leg of 5th St To reduce SW radii at US 301 Blvd Separate ramps at 22nd St (NW), 30th St (SW), and Natalie Way (All) Crosswalk/ramps on east leg of 22nd Median Mods	1,064.34	SY	\$50.89	\$54,164.26
120-1	REGULAR EXCAVATION Comment: Needed to reduce SW radii at US 301 Blvd Separate ramps at 22nd St (NW Corner), and 30th St (SW) and Natalie Way (All Corners) Median Openings Modification	1,125.94	CY	\$36.56	\$41,164.37
120-6	EMBANKMENT Comment: Needed to reduce SW radii at US 301 Blvd Separate ramps at 22nd St (NW Corner), and 30th St (SW) and Natalie Way (All Corners) Median Openings Modification	258.07	CY	\$52.71	\$13,602.87
160-4	TYPE B STABILIZATION Comment: Median Openings Modification at 18th St Blvd, 24th St and 66th St	2,432.56	SY	\$23.81	\$57,919.25
285-709	OPTIONAL BASE,BASE GROUP 09 Comment: Median Openings Modification at 18th St Blvd, 24th St and 66th St	2,432.56	SY	\$91.44	\$222,433.29
334-1-53	SUPERPAVE ASPH CONC, TRAF C, PG76-22 Comment: 2" for Median Openings Modification at 18th St Blvd, 24th St and 66th St	348.61	TN	\$188.96	\$65,873.35
337-7-83	ASPH CONC FC,TRAFFIC C,FC-12.5,PG 76-22 Comment: 1.5" for Median Openings Modification at 18th St Blvd, 24th St and 66th St	174.31	TN	\$205.33	\$35,791.07
350-3-13	PLAIN CEMENT CONC PAVT, 12" Comment: Needed to reduce SW Radii at US 301 Blvd	15.33	SY	\$208.86	\$3,201.82
520-1-10	CONCRETE CURB & GUTTER, TYPE F Comment: For crosswalk/ramps on east leg of 5th St For crosswalk/ramps on east leg of 22nd To reduce SW radii at US 301 Blvd To separate ramps at 22nd St (NW), 30th St (SW), and Natalie Way (All)	634.00	LF	\$42.55	\$26,976.70
520-2-4	CONCRETE CURB, TYPE D Comment: Needed to reduce SW Radii at US 301 Blvd	43.00	LF	\$52.17	\$2,243.31
520-5-11	TRAF SEP CONC-TYPE I, 4' WIDE Comment: Median Openings Modification at 66th St	40.00	LF	\$127.40	\$5,096.00
520-70	CONCRETE TRAFFIC SEPARATOR, SP- VAR WIDT Comment: Median Openings Modification at 18th St Blvd, and 24th St	267.89	SY	\$163.03	\$43,674.11
522-1	CONCRETE SIDEWALK AND DRIVEWAYS, 4" Comment: For crosswalk/ramps on east leg of 5th St For crosswalk/ramps on east leg of 22nd To reduce SW radii at	315.02	SY	\$89.15	\$28,084.03

	US 301 Blvd To separate ramps at 22nd St (NW), 30th St (SW), and Natalie Way (All)			
522-2	CONCRETE SIDEWALK AND DRIVEWAYS, 6"	287.16 SY	\$114.17	\$32,785.06
	Comment: For crosswalk/ramps on east leg of 5th St For crosswalk/ramps on east leg of 22nd To reduce SW radii at US 301 Blvd To separate ramps at 22nd St (NW), 30th St (SW), and Natalie Way (All)			
527-2	DETECTABLE WARNINGS	56.00 SF	\$33.44	\$1,872.64
	Comment: For crosswalk/ramps on east leg of 5th St For crosswalk/ramps on east leg of 22nd			
570-1-2	PERFORMANCE TURF, SOD	858.89 SY	\$6.69	\$5,745.97
	Comment: Needed to reduce SW radii at US 301 Blvd Separate ramps at 22nd St (NW Corner), and 30th St (SW) and Natalie Way (All Corners) Median Openings Modification			
704-1-4	TUBULAR MARKER, 36" YELLOW POST	3.00 EA	\$241.90	\$725.70
	Comment: Needed for crosswalk/ramps on east leg of 5th St			
Roadway Component Total				\$693,945.43

SHOULDER COMPONENT

User Input Data

Description		Value			
X-Items					
Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
520-1-7	CONCRETE CURB & GUTTER, TYPE E	816.00	LF	\$51.35	\$41,901.60
	Comment: Median Openings Modification at 18th St Blvd, 24th St and 66th St				
520-2-8	CONCRETE CURB, TYPE RA	59.00	LF	\$48.31	\$2,850.29
	Comment: Needed to reduce SW radii at US 301 Blvd				
Shoulder Component Total					\$44,751.89

SIGNALIZATIONS COMPONENT

Signalization 1

Description	Value
Type	Miscellaneous
Multiplier	1
Description	5th Street

X-Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
630-2-12	CONDUIT, F& I, DIRECTIONAL BORE	186.00	LF	\$29.76	\$5,535.36
	Comment: Add Crosswalk on East Leg				
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24"	8.00	EA	\$1,201.23	\$9,609.84
	Comment: Add Crosswalk on East Leg				
646-1-11	ALUMINUM SIGNALS POLE, PEDESTAL	2.00	EA	\$2,254.41	\$4,508.82
	Comment: Add Crosswalk on East Leg				

646-1-60	ALUMINUM SIGNALS POLE, REMOVE Comment: Add Crosswalk on East Leg	1.00 EA	\$528.41	\$528.41
653-1-11	PEDESTRIAN SIGNAL, F&I LED COUNT, 1 WAY Comment: Add Crosswalk on East Leg	2.00 AS	\$1,051.99	\$2,103.98
665-1-11	PEDESTRIAN DETECTOR, F&I, STANDARD Comment: Add Crosswalk on East Leg	2.00 EA	\$452.93	\$905.86

Signalization 3

Description	Value
Type	Miscellaneous
Multiplier	1
Description	US 301 Blvd

X-Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
630-2-11	CONDUIT, F& I, OPEN TRENCH Comment: Needed to reduce SW radii	90.00	LF	\$14.87	\$1,338.30
630-2-12	CONDUIT, F& I, DIRECTIONAL BORE Comment: Needed to reduce SW radii	229.00	LF	\$29.76	\$6,815.04
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24" Comment: Needed to reduce SW radii	8.00	EA	\$1,201.23	\$9,609.84
646-1-11	ALUMINUM SIGNALS POLE, PEDESTAL Comment: Needed to reduce SW radii	3.00	EA	\$2,254.41	\$6,763.23
646-1-60	ALUMINUM SIGNALS POLE, REMOVE Comment: Needed to reduce SW radii	3.00	EA	\$528.41	\$1,585.23
653-1-11	PEDESTRIAN SIGNAL, F&I LED COUNT, 1 WAY Comment: Needed to reduce SW radii	3.00	AS	\$1,051.99	\$3,155.97
653-1-60	PEDESTRIAN SIGNAL, REMOVE Comment: Needed to reduce SW radii	1.00	AS	\$186.97	\$186.97
665-1-11	PEDESTRIAN DETECTOR, F&I, STANDARD Comment: Needed to reduce SW radii	3.00	EA	\$452.93	\$1,358.79

Signalization 4

Description	Value
Type	Miscellaneous
Multiplier	1
Description	22nd Street E

X-Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
630-2-11	CONDUIT, F& I, OPEN TRENCH	60.00	LF	\$14.87	\$892.20
630-2-12	CONDUIT, F& I, DIRECTIONAL BORE	269.00	LF	\$29.76	\$8,005.44
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24"	10.00	EA	\$1,201.23	\$12,012.30
646-1-11	ALUMINUM SIGNALS POLE, PEDESTAL Comment: Separate Ramps on NW Corner and Add New Crosswalk with Ramps on East Leg	6.00	EA	\$2,254.41	\$13,526.46

646-1-60	ALUMINUM SIGNALS POLE, REMOVE	2.00 EA	\$528.41	\$1,056.82
	Comment: Separate Ramps on NW Corner and Add New Crosswalk with Ramps on East Leg			
653-1-11	PEDESTRIAN SIGNAL, F&I LED COUNT, 1 WAY	6.00 AS	\$1,051.99	\$6,311.94
	Comment: Separate Ramps on NW Corner and Add New Crosswalk with Ramps on East Leg			
653-1-60	PEDESTRIAN SIGNAL, REMOVE	2.00 AS	\$186.97	\$373.94
	Comment: Separate Ramps on NW Corner and Add New Crosswalk with Ramps on East Leg			
665-1-11	PEDESTRIAN DETECTOR, F&I, STANDARD	6.00 EA	\$452.93	\$2,717.58
	Comment: Separate Ramps on NW Corner and Add New Crosswalk with Ramps on East Leg			
665-1-60	PEDESTRIAN DETECTOR, REMOVE	2.00 EA	\$45.89	\$91.78
	Comment: Separate Ramps on NW Corner and Add New Crosswalk with Ramps on East Leg			

Signalization 6

Description	Value
Type	Miscellaneous
Multiplier	1
Description	30th Street E

X-Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
630-2-11	CONDUIT, F& I, OPEN TRENCH	40.00	LF	\$14.87	\$594.80
630-2-12	CONDUIT, F& I, DIRECTIONAL BORE	100.00	LF	\$29.76	\$2,976.00
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24"	2.00	EA	\$1,201.23	\$2,402.46
646-1-11	ALUMINUM SIGNALS POLE, PEDESTAL	1.00	EA	\$2,254.41	\$2,254.41
	Comment: Separate ramp on SW corner				
653-1-11	PEDESTRIAN SIGNAL, F&I LED COUNT, 1 WAY	1.00	AS	\$1,051.99	\$1,051.99
	Comment: Separate ramp on SW corner				
653-1-60	PEDESTRIAN SIGNAL, REMOVE	1.00	AS	\$186.97	\$186.97
	Comment: Separate ramp on SW corner				
665-1-11	PEDESTRIAN DETECTOR, F&I, STANDARD	1.00	EA	\$452.93	\$452.93
	Comment: Separate ramp on SW corner				
665-1-60	PEDESTRIAN DETECTOR, REMOVE	1.00	EA	\$45.89	\$45.89
	Comment: Separate ramp on SW corner				

Signalizations Component Total \$108,959.55

Sequence 8 Total \$847,656.87

Sequence: 9 MIS - Miscellaneous Construction

Net Length: 0.000 MI
0 LF

Description: TSM&O

SIGNALIZATIONS COMPONENT

Signalization 1

Description	Value
Type	Miscellaneous
Multiplier	1
Description	

X-Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
670-5-161	TRAF CNTL ASS,F&I, NEMA, STD LOCK, 1 PRE	12.00	AS	\$63,761.11	\$765,133.32
671-2-60	TRAFFIC CONTROLLER, REMOVE	12.00	EA	\$563.39	\$6,760.68
684-1-1	MANAGED FIELD ETHERNET SWITCH, F&I	12.00	EA	\$6,941.93	\$83,303.16
685-1-13	UPS, F&I, LINE INTERACTIVE W CAB	12.00	EA	\$10,403.67	\$124,844.04
Signalizations Component Total					\$980,041.20

Sequence 9 Total **\$980,041.20**

FDOT Long Range Estimating System - Production

R3: Project Details by Sequence Report

Project: 456242-1-52-01

Letting Date: 07/2028

Description: SR 70 FROM EAST OF SR 45 (US 41) TO WEST OF TARA BOULEVARD

District: 01 **County:** 13 MANATEE

Market Area: 10 **Units:** English

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

Design/Build: N **Project Length:** 6.541 MI

Project Manager: NEM-LAT-4P

Version 3 Project Grand Total

\$32,373,974.64

Description: Copy of Version 1 Pre-TRM

Project Sequences Subtotal **\$22,150,867.60**

102-1	Maintenance of Traffic	15.00 %	\$3,322,630.14
101-1	Mobilization	10.00 %	\$2,547,349.77

Project Sequences Total **\$28,020,847.51**

Project Unknowns	15.00 %	\$4,203,127.13
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

Version 3 Project Grand Total **\$32,373,974.64**