<u>Quick Reference Guide:</u> Incorporating Fuel and Bituminous Material Payment Adjustments in Tennessee Airport Projects

<u>Purpose:</u> To provide quick guidance to the Engineer/Airport Sponsor on how to incorporate fuel and bituminous material payment adjustments (ASP109A & ASP109B) into the project. Additionally, to provide guidance to the user of the spreadsheet by incorporating visuals and specific technical guidance that will assist when utilizing the Excel tool.

<u>Table of Contents:</u>

<u>Quick Steps for Incorporation of Indexing:</u>

If the question you have is, "We want to include indexing for fuel and bituminous material in our project, but how do we do that?", then you are at the right place.

1) Navigate to the TDOT Aeronautics Division website and find the Fuel and Bituminous Material Payment Adjustments section.
2) Review the Training PPT and Fuel and Bituminous Indexing Flyers.
3) Discuss incorporation with the TDOT Aeronautics Project Manager.
4) As of 2026, submit an MOS in ADIP if the construction requires FAA funding.
   a) Approved MOS allows for permission to include the ASPs in the general contract provisions.
5) Add the ASP109A and ASP109B into the contract book, in the general provisions.
   a) Update the price per gallon and Price Index text in ASP109A
      i) Fuel Price Per Gallon Table is on website (Links to PowerBI Table).
   b) Do not update the table in ASP109A, **this is set.**
   c) Update the Basic Bituminous Material Index $ per ton value in ASP109B
6) Pre-Populate the TAD Material Adjustments Tool to choose the eligible fuel and bituminous indexing line items for that specific project. The contractor may want this during the bidding process. YOU MUST ENABLE MACROS FOR PROPER USE. Please read the overview and start tabs of the excel workbook for familiarity purposes. Contact the State Aviation Engineer for any workbook assistance.
7) Discuss fuel and bituminous indexing at the pre-bid conference. Emphasize that this is the same calculation methodology as TDOT Roadway projects but tailored for standard FAA line items that are applicable to indexing.
8) Upon receiving responsive bid(s) within budget, utilize the Indexing Grant Contingency Calculator on the TDOT Website. This is an Excel Spreadsheet. Incorporate this amount into the

grant request but note the contingency is funded at 95% State and 5% Local since the FAA cannot fund "contingencies" per the AIP Handbook. Discuss with the State Project Manager.

9) Active Construction: During monthly construction invoicing, utilize the TAD Material Adjustments Tool (Excel Workbook) to provide the backup PDFs for the invoice…*i.e. Fuel and/or Bituminous Index Calculations tab and Summary tab.* Tip – It may be helpful to * or bold items on the invoice that apply to ASP109A & ASP109B for efficiency.
   a) To show it on the typical TAD invoicing template, you simply add two line items to your existing schedule of values/work descriptions…*i.e. Item TNP-109-8.1a Fuel Price Adjustment – Dollar; Item TNP-109-8.1b Bituminous Material Price Adjustment – Dollar*
      i) Each month you will either have a negative amount or a positive amount; or a zero amount (if the 5% threshold from the ASP is not met).

This is how all the resources look on the TAD Website as of 2026.

Fuel and Bituminous Material Payment Adjustments

- Bituminous and Fuel Indexing Training
- Fuel Indexing Flyer
- ASP 109A — Payment Adjustment for Fuel
  - Fuel Price per Gallon Table - Payment Adjustment for Fuel Indexing
- Bituminous Indexing Flyer
- ASP 109B — Payment Adjustment for Bituminous Material
- TAD Material Adjustments Tool (***please enable macros***)
- Indexing Grant Contingency Calculator

TAD Material Adjustments Tool Guidance

1) **Review the Overview and Start Tabs.**
2) **Fill out Project Information Tab.** Anything highlighted in beige/yellow is fillable. You will notice the headings or fillable cells have yellow note instructions. Click around. This information is critical since it feeds into the next two tabs.

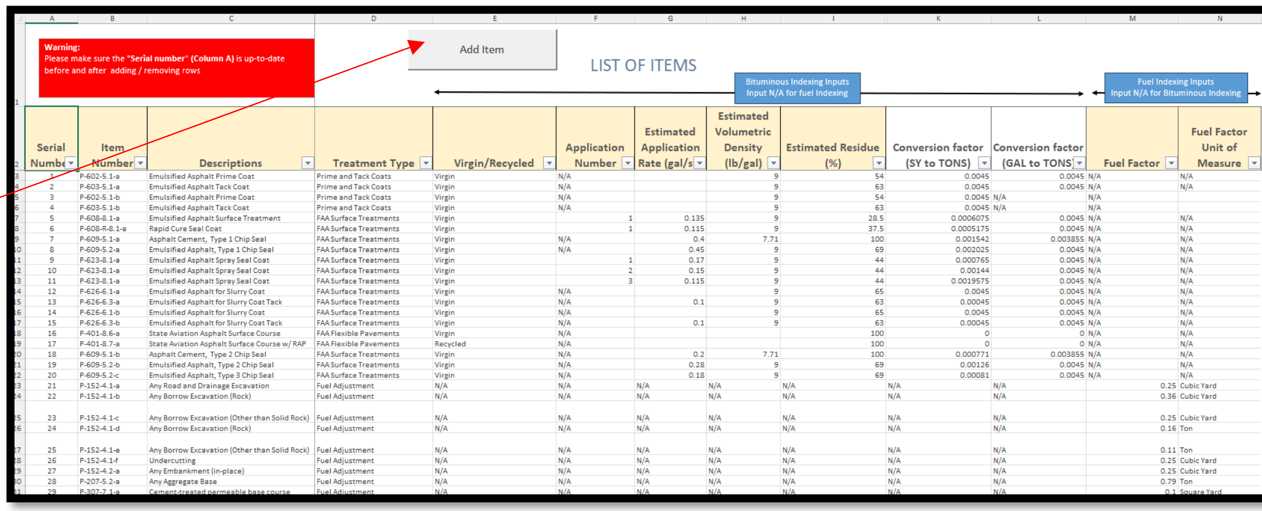
Project Information

Project Title	Reconstruction/Rehabilitation of Runway 14/32 & RSA Improvements Phase I - Construction
TAD Proj. No.	75-555-0189-25
Airport ID	MQY
Airport Name	Smyrna Airport
County	Rutherford
Region	3
Prime Contractor	Vulcan
Base Bidding Date	26-Jun-25
Fuel Bidding Value (gal)	267
Fuel Price ($/ Gallon)	$2.39
Bituminous Bidding Index ($/ton)	$600.00

ASP109A (lags behind a couple months) and ASP109B.

3) Ensure all the Work Descriptions are listed that are in your project. If you need to adjust the description to match your project's, then do it here in the C column. You can revise any of the cells in column C.

   a) **Although, unlikely** - You can also add an item by using the button at the top of this tab or you can just scroll to the bottom and start writing in the next available open cells at the bottom of the list. You will have to type in the correct information similar to other items so the Add Item bottom might be the safest route. Cells you should not manipulate are protected, which are column information D:N.



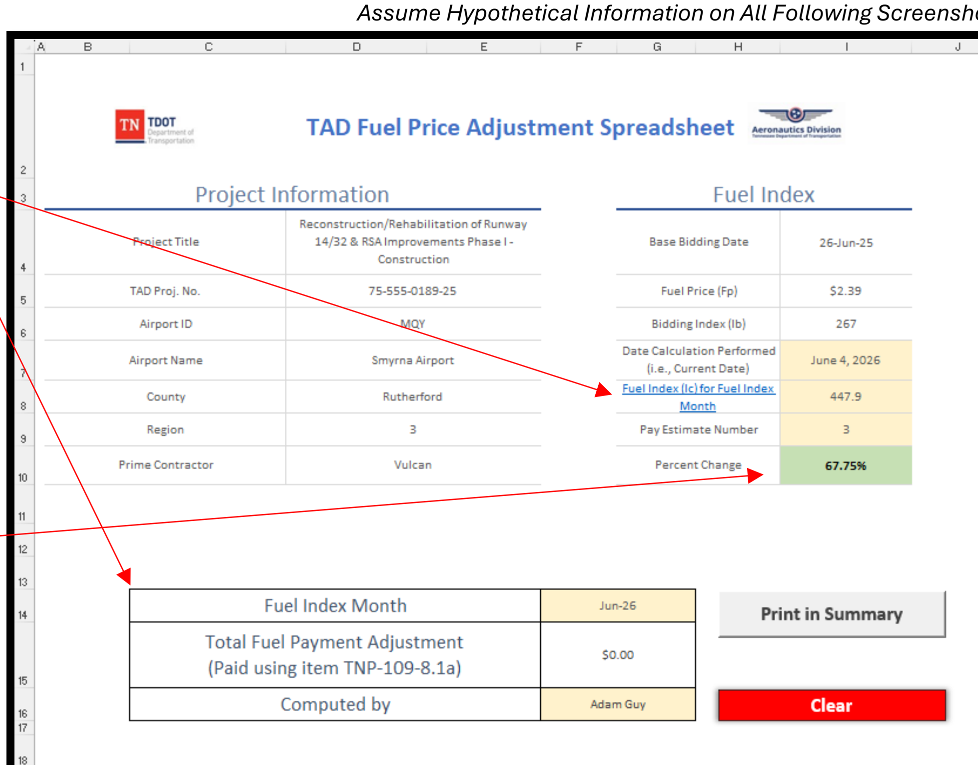
Serial Number	Item Number	Descriptions	Treatment Type	Virgin/Recycled	Application Number	Estimated Application Rate (gal/s	Estimated Volumetric Density (lb/gal)	Estimated Residue (%)	Conversion factor (SY to TONS)	Conversion factor (GAL to TONS)	Fuel Factor	Fuel Factor Unit of Measure
1	P-602-5.1-a	Emulsified Asphalt Prime Coat	Prime and Tack Coats	Virgin	N/A		9	54	0.0045	0.0045	N/A	N/A
2	P-603-5.1-a	Emulsified Asphalt Tack Coat	Prime and Tack Coats	Virgin	N/A		9	63	0.0045	0.0045	N/A	N/A
3	P-602-5.1-b	Emulsified Asphalt Prime Coat	Prime and Tack Coats	Virgin	N/A		9	54	0.0045	N/A	N/A	
4	P-603-5.1-b	Emulsified Asphalt Tack Coat	Prime and Tack Coats	Virgin	N/A		9	63	0.0045	N/A	N/A	
5	P-608-8.1-a	Emulsified Asphalt Surface Treatment	FAA Surface Treatments	Virgin	1	0.135	9	28.5	0.0006075	0.0045	N/A	N/A
6	P-608-R-8.1-a	Rapid Cure Seal Coat	FAA Surface Treatments	Virgin	1	0.115	9	37.5	0.0005175	0.0045	N/A	N/A
7	P-609-5.1-a	Asphalt Cement, Type 1 Chip Seal	FAA Surface Treatments	Virgin	N/A	0.4	7.71	100	0.001542	0.003855	N/A	N/A
8	P-609-5.2-a	Emulsified Asphalt, Type 1 Chip Seal	FAA Surface Treatments	Virgin	N/A	0.45	9	69	0.002025	0.0045	N/A	N/A
9	P-623-8.1-a	Emulsified Asphalt Spray Seal Coat	FAA Surface Treatments	Virgin	1	0.17	9	44	0.000765	0.0045	N/A	N/A
10	P-623-8.1-a	Emulsified Asphalt Spray Seal Coat	FAA Surface Treatments	Virgin	2	0.15	9	44	0.00144	0.0045	N/A	N/A
11	P-623-8.1-a	Emulsified Asphalt Spray Seal Coat	FAA Surface Treatments	Virgin	3	0.115	9	44	0.0019575	0.0045	N/A	N/A
12	P-626-6.1-a	Emulsified Asphalt for Slurry Coat	FAA Surface Treatments	Virgin	N/A		9	65	0.0045	0.0045	N/A	N/A
13	P-626-6.3-a	Emulsified Asphalt for Slurry Coat Tack	FAA Surface Treatments	Virgin	N/A	0.1	9	63	0.00045	0.0045	N/A	N/A
14	P-626-6.1-b	Emulsified Asphalt for Slurry Coat	FAA Surface Treatments	Virgin	N/A		9	65	0.0045	0.0045	N/A	N/A
15	P-626-6.3-b	Emulsified Asphalt for Slurry Coat Tack	FAA Surface Treatments	Virgin	N/A	0.1	9	63	0.00045	0.0045	N/A	N/A
16	P-401-8.6-a	State Aviation Asphalt Surface Course	FAA Flexible Pavements	Virgin	N/A			100	0	0	N/A	N/A
17	P-401-8.7-a	State Aviation Asphalt Surface Course w/ RAP	FAA Flexible Pavements	Recycled	N/A			100	0	0	N/A	N/A
18	P-609-5.1-b	Asphalt Cement, Type 2 Chip Seal	FAA Surface Treatments	Virgin	N/A	0.2	7.71	100	0.000771	0.003855	N/A	N/A
19	P-609-5.2-b	Emulsified Asphalt, Type 2 Chip Seal	FAA Surface Treatments	Virgin	N/A	0.28	9	69	0.00126	0.0045	N/A	N/A
20	P-609-5.2-c	Emulsified Asphalt, Type 3 Chip Seal	FAA Surface Treatments	Virgin	N/A	0.18	9	69	0.00081	0.0045	N/A	N/A
21	P-152-4.1-a	Any Road and Drainage Excavation	Fuel Adjustment	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.25	Cubic Yard
22	P-152-4.1-b	Any Borrow Excavation (Rock)	Fuel Adjustment	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.36	Cubic Yard
23	P-152-4.1-c	Any Borrow Excavation (Other than Solid Rock)	Fuel Adjustment	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.25	Cubic Yard
24	P-152-4.1-d	Any Borrow Excavation (Rock)	Fuel Adjustment	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.16	Ton
25	P-152-4.1-e	Any Borrow Excavation (Other than Solid Rock)	Fuel Adjustment	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.11	Ton
26	P-152-4.1-f	Undercutting	Fuel Adjustment	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.25	Cubic Yard
27	P-152-4.2-a	Any Embankment (in-place)	Fuel Adjustment	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.25	Cubic Yard
28	P-207-5.2-a	Any Aggregate Base	Fuel Adjustment	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.79	Ton
29	P-307-7.1-a	Cement-treated permeable base course	Fuel Adjustment	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.1	Square Yard

4) Fill Out Fuel Index Calculations Tab

Assume Hypothetical Information on All Following Screenshots in this Section

Based on the month of the invoice. Use Hyperlink.

Green if positive (contractor's benefit). Orange if negative (Sponsor's benefit). >= +- 5% triggers an adjustment.



Project Information		Fuel Index	
Project Title	Reconstruction/Rehabilitation of Runway 14/32 & RSA Improvements Phase I - Construction	Base Bidding Date	26-Jun-25
TAD Proj. No.	75-555-0189-25	Fuel Price (Fp)	$2.39
Airport ID	MQY	Bidding Index (Ib)	267
Airport Name	Smyrna Airport	Date Calculation Performed (i.e., Current Date)	June 4, 2026
County	Rutherford	Fuel Index (Ic) for Fuel Index Month	447.9
Region	3	Pay Estimate Number	3
Prime Contractor	Vulcan	Percent Change	67.75%

Fuel Index Month	Jun-26
Total Fuel Payment Adjustment (Paid using item TNP-109-8.1a)	$0.00
Computed by	Adam Guy

Choose your item numbers for the project. This pulls from the Item Lists tab.

Input the quantity for each item number associated with that month's pay request. Enter Zero if item not billed that month.

Payment Adjustment

$$PA = \left[\frac{\text{Index for current Month}}{\text{Index for Bidding}} - 1\right] \text{ x Fe x Fuel Price for Bidding}$$

Where $Fe = \sum(\text{Pay quantity x Gallons per unit})$

Item Number	Item Descriptions	Fuel Factor	Unit of Measure	Quantity	Fe	Fuel Adjustment, $
P-152-4.1	Unclassified Excavation to On-Airport Embankment Areas	0.25	Cubic Yard	1000.00	250.00	$404.82
P-152-4.2	Undercut Excavation of Yielding Materials to Off-Site Disposal, Including Backfill from Project Site Sources	0.25	Cubic Yard	1000.00	250.00	$404.82
P-152-4.3	Backfill of Undercut Areas with Surge Stone	0.16	Ton	1000.00	160.00	$259.09
P-152-4.4	Unclassified Excavation to Off-Site Disposal	0.25	Cubic Yard	1000.00	250.00	$404.82
P-152-4.5	Topsoil Stripping to On-Site Stockpile	0.25	Cubic Yard	1000.00	250.00	$404.82
P-152-4.6	Undercut Excavation for Sinkhole Repairs	0.25	Cubic Yard	1000.00	250.00	$404.82
P-152-4.7	Select Rubble Stone for Sinkhole Repairs	0.16	Ton	1000.00	160.00	$259.09
P-152-4.8	TDOT No. 57 Stone Fill for Sinkhole Repairs	0.16	Ton	1000.00	160.00	$259.09
P-209-5.1	Crushed Aggregate Base Course, 8-Inch or 10-Inch Thickness	0.79	Ton	1000.00	790.00	$1,279.24
P-401-8.1.1.a	Asphalt Surface Course, 2" Lifts, 3/4-inch Max. Aggregate Size, PG 70-22	2.98	Ton	1000.00	2980.00	$4,825.49
P-156-8.1	Cement Treated Subgrade, 10-inch depth	0.1	Square Yard	1000.00	100.00	$161.93

These auto populate upon item number selection.

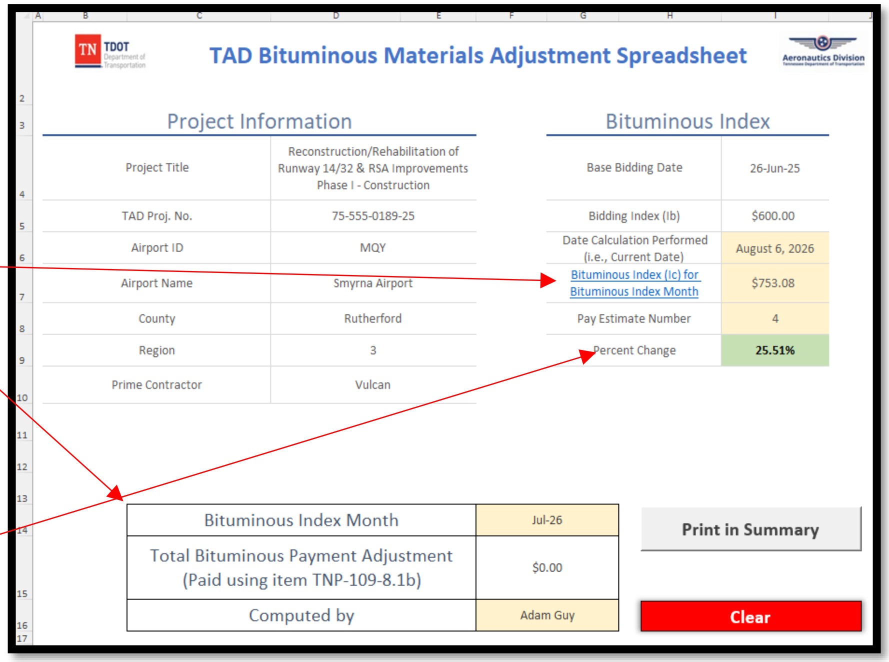
a) Click the Print in Summary Button. This summarizes the total increases/deductions on the Summary tab.

5) Fill Out Bit Index Calculations Tab

a) Consider all eligible bituminous line items on this monthly invoice submission (Asphalt with and without RAP, tack coats, prime coats, sealcoats, emulsions).

Based on the month of the invoice. Use Hyperlink.

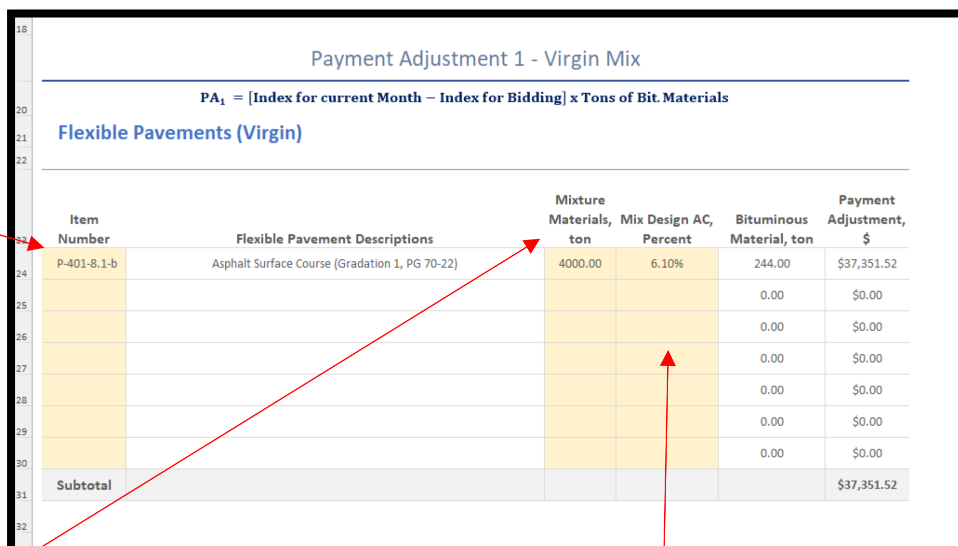
Green if positive (contractor's benefit). Orange if negative (Sponsor's benefit). >= +- 5% triggers an adjustment.



Virgin Asphalt Pavement

Choose your item numbers for the project. This pulls from the Item Lists tab.

Input the quantity for each item number associated with that month's pay request. Enter Zero if item not billed that month.



The % AC is taken from the approved Job Mix Formula (Mix Design). This is the optimum/target AC Content, specific to project.

The % AC is taken from the approved Job Mix Formula (Mix Design). This is the optimum/target AC Content. This value is specific to project.

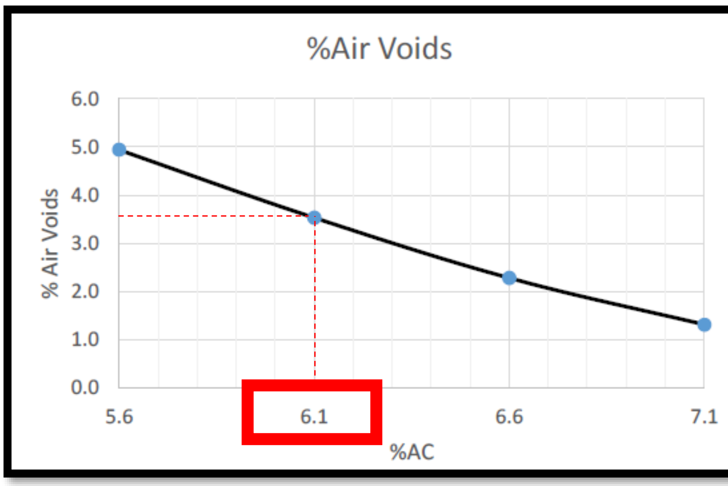
Example Approved Job Mix Formula for P401

Contractor	Vulcan Materials			Antistrip Agent	EVOTHERM P SERIES 0.5%	
Mix Type	FAA P401 3/4" Max. Surface PG 70-22			% AC	6.1	

Sample No.		3	4	6	1	2	5
Diameter, mm	D	150.0	150.0	150.0	150.0	150.0	150.0
Thickness, mm	T	65.7	65.5	65.1	65.0	64.6	65.7
Dry Mass, grams	A	1189.3	1187.8	1188.8	1184.9	1187.2	1188.9
SSD Mass, grams	B	1192.3	1190.2	1192.6	1187.2	1189.9	1192.5

FAA AC 150/5370-10H illustrates,

for P-401 (Virgin), that asphalt design criteria aims for a target of 3.5% air voids. The TNP-401 targets 4.0%, conversely (contains RAP).



JMF info based on a P-401 Mix

Surface Treatments

Surface Treatments

Current Date August 6, 2026

If there are multiple applications of a single surface treatment, enter only the highest application number. For example, if there are 3 treatment applications; only enter 3 only. Do not enter 1 or 2.

Item Number	Surface Treatment Description	Application Number based on Specification or Mix Measurement Type	Unit of Measure	Quantity	Estimated Applied Material, ton	Estimated Residue, Percent	Estimated Bituminous Material, ton	Payment Adjustment, $
P-623-8.1-a	Emulsified Asphalt Spray Seal Coat	2	SY	20000	28.80	44.00%	12.67	$1,939.83
						0.00%	0.00	$0.00
								$0.00
								$0.00
								$0.00
								$0.00
								$0.00
								$0.00
								$1,939.83

For surface treatments bid by SY, it is important to know how many applications were spec'd out. The spreadsheet automatically incorporates estimated application rates. Do not manipulate this. *E.g. If one application spec'd, put 1, if two, put 2, if three, put 3. Do not make multiple rows. If GAL, the number of applications value is irrelevant. If you need to add a surface treatment to the item list and need assistance, contact the State Aviation Engineer (rare situation).*

Prime and Tack Coat

Choose your item numbers for the project. This pulls from the Item Lists tab.

Prime and Tack Coats

Item Number	Prime and Tack Coat Description	Unit of Measure	Quantity	Materials, ton	Asphalt Residue, Percent	Bituminous Material, ton	Payment Adjustment, $
P-602-5.1-a	Emulsified Asphalt Prime Coat	GAL	1000	4.50	54.00%	2.43	$371.98
P-603-5.1-a	Emulsified Asphalt Tack Coat	GAL	1000	4.50	63.00%	2.84	$433.98
				0.00	0.00%	0.00	$0.00
				0.00	0.00%	0.00	$0.00
Subtotal							$805.97

The Asphalt Residue percentage is preset based on the standard spec language.

Recycled Asphalt Pavements (RAP)

P-4xx Recycled Bituminous Material

Item Number	FAA AC 150/5370-10H Description	Mixture Materials, Ton	Job-mix Formula AC (JA), Percent	Reclaimed AC (RA) Mix Contribution, Percent	Payment Adjustment, $
411E	Perimeter Road and Golf Cart Path	339.83	5.60%	0.44%	$2,684.29
307	Binder Course for perimeter road and golf cart path	348.19	4.20%	1.42%	$1,481.77
					$0.00
Subtotal					$4,166.06

Choose your item numbers for the project. This pulls from the Item Lists tab. *This scenario required new items to be listed on Items Lists tab due to economical mix needed for relocation of an airport perimeter road and golf cart path for RSA Improvements (state funded).*

The % AC is taken from the approved Job Mix Formula (Mix Design). This is the optimum/target AC Content, specific to project.

Total Mix contributed by the RAP AC. This value is taken from the approved Job Mix Formula (Mix Design), specific to project.

Example Approved Job Mix Formula for 411E

The % AC is taken from the approved Job Mix Formula (Mix Design). This is the optimum/target AC Content. This value is specific to project.

Type	ACS-HM	Mix	411.01.07
Serial No.:			

Material	Size or Grade		ercent Used
Soft Limestone (aka Non-Sur	#7	Rogers Group - Murfreesboro	28.320
Soft Limestone (aka Non-Sur	#10	Rogers Group - Murfreesboro	37.760
Natural Sand	Natural Sand	Pine Bluff Sand & Gravel - Nashville	18.880
RAP	RAP Processed -1/2	RAP - VULCAN MATERIALS, MURFREESBORO PLANT	9.885
Asphalt Cement	PG 64-22	MARATHON PETROLEUM CO. NASHVILLE TERMINAL	5.155

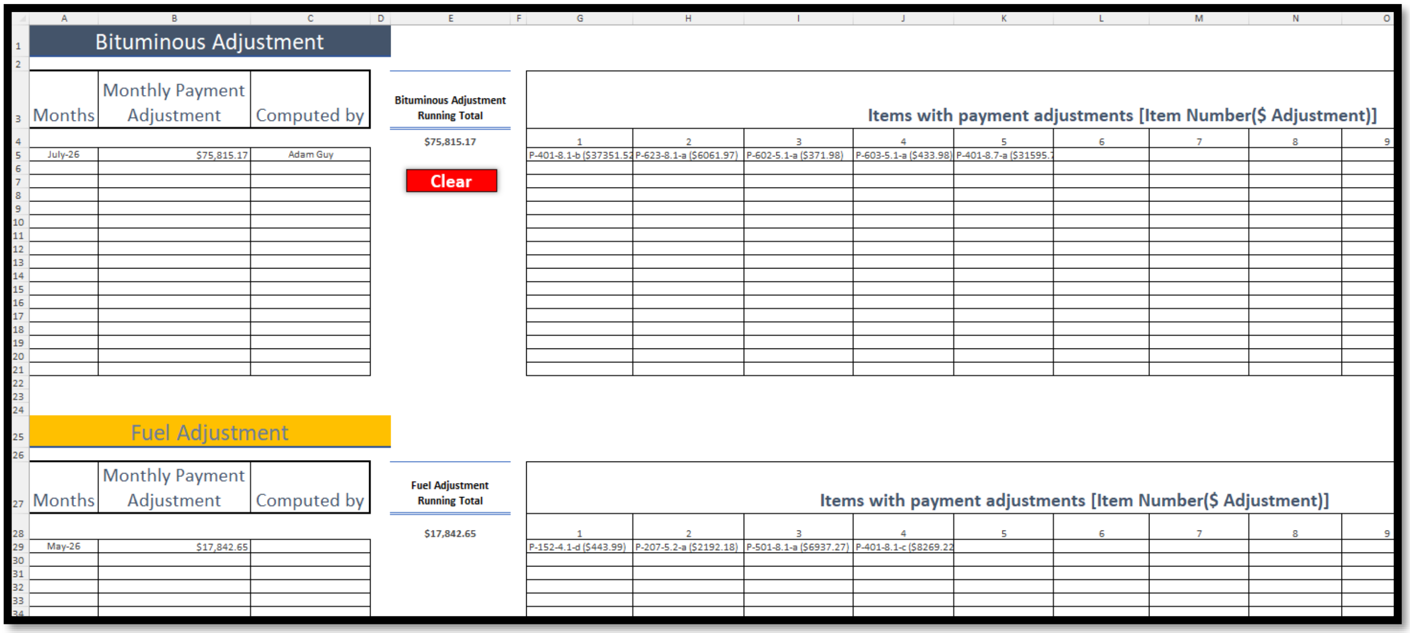
Percent AC in RAP1:		Optimum AC Content:	5.60	Total	100.000
Percent AC in RAP2:	4.5	Anti-Strip Supplier:		Westvaco Polychemical Dept	
Anti-Strip Additive:		Evotherm P-25		Dosage:	0.5%
AC Contribution:	Virgin AC 5.16	RAP AC	0.44	Percent Virgin AC:	92.1
Asphalt Sp. Gravity:	1.03			Dust to Asphalt Ratio:	1.22
% Fracture Face on CA:	n/a			% Glassy Particles on CA:	n/a
Theo.Gravity of RAP:	2.667			Eff. Gravity of Agg:	2.631

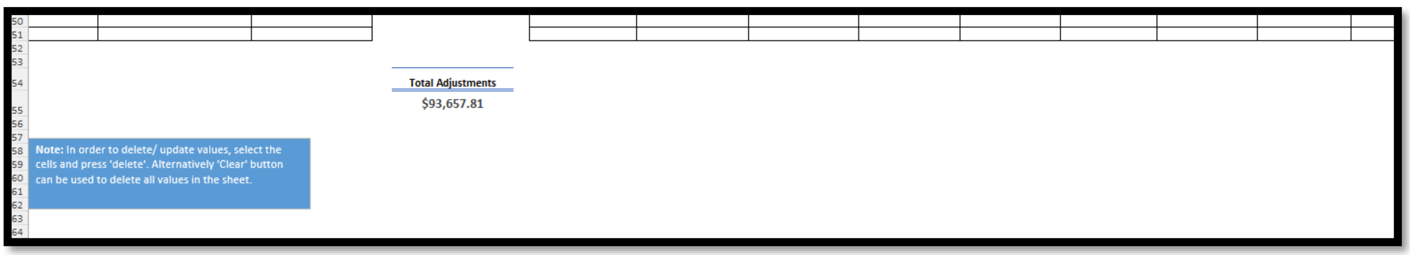
This is the RAP AC **percentage** from the approved Job Mix Formula. This is also project specific.

Special Note: Please note that the FAA approved TN State Aviation Mix is essentially TDOT 411D Mix with Federal QA/Testing requirements and is currently approved for design aircraft of <60,000 lbs. on any airfield pavement. The above mix was not the state aviation mix since they were relocated perimeter/golf cart paths. However, the same RAP methodology and mix design evaluation applies, relative to indexing. *Please note that TNP-401 targets 4.0% air voids in the mix design instead of the FAA P-401 mix design requirements of 3.5% (correlates to optimum AC %).*

a) Click the Print in Summary Button. This summarizes the total increases/deductions on the Summary tab.

6) Review Summary tab.





7) ***Print/Save As*** **the Fuel & Bituminous Index Calculations tab and Summary Tab to PDF to showcase the monthly payment adjustment needed for designated construction invoice.** Attach it to the invoice packet.

Contact the Statewide Aviation Engineer and/or State Project Manager for further assistance as needed.

Applying Grant Contingency to your project's grant request:

Indexing Grant Contingency Calculator (.xls) from TAD Website

Fuel Indexing Table

Bid Amount	<6 months	6-12 months	12-18 months	>18 months
<$ 500K	0.95%	2.09%	3.32%	1.63%
$ 500K - $ 1M	1.36%	1.26%	2.59%	1.64%
$ 1 - 3M	1.16%	1.33%	1.61%	1.09%
$ 3 - 10M	0.91%	1.71%	1.40%	1.26%
>$ 10M		1.19%	1.84%	2.18%

Bituminous Indexing Table

Bid Amount	<6 months	6-12 months	12-18 months	>18 months
<$ 500K	1.94%	1.62%	4.97%	1.84%
$ 500K - $ 1M	3.57%	2.13%	1.69%	1.78%
$ 1 - 3M	3.59%	4.14%	1.70%	1.31%
$ 3 - 10M	3.00%	5.48%	2.27%	1.50%
>$ 10M		4.21%	4.86%	2.02%

Critical - If the majority of the project is not a paving/earthwork project, please exercise judgement and review the eligible indexing items per ASP109A & ASP109B. In this scenario, all the contingency is likely not needed. These statistical values were derived from TDOT Roadway contracts which was majority paving work. A 68 percent confidence interval was chosen which means there is only a 16 percent chance the value(s) could be exceeded. Green means more sample data was available, yellow means less, and red means lesser. Contingency is intended for indexing as needed, **only**. Contingency, in this circumstance, is being allowed at grant execution stage, given the current grant amendment cycle timelines, to ensure prompt payment to contractor.

Contingency Calulator

Input	
Construction Bid:	$850,000.00
Time (months):	3.333333333
Output	
Fuel Contingency:	$11,560.00
Bit. Contingency:	$30,345.00
Total:	$41,905.00
State (95%):	$39,809.75
Local (5%):	$2,095.25

This calculator utilizes python which requires an internet connection to function. If at anytime the program stops it can be reset in the Formulas tab under *Python (Formulas -> Reset).*

This is the official bid amount of contractor bid and will be licensed/insured/bonded for. The Time in months is how long the contract give the contractor to complete the job.

Tack on the total state/local amount needed for contingency to the total funding needed based on actual expenses.

Example: Total project is $1M dollars for construction ($850k) + construction professional services/inspection ($150k). The project has a 100-calendar day duration. The project is funded with 95% IIJA = $950,000.00, 2.5% State = $25,000.00, and 2.5% Local = $25,000.00; which in all equals $1M. To add the appropriate indexing contingency, apply the values from the indexing charts (2 different charts) to the construction amount. Fuel - $850,000*.0136 = $11,560; Bituminous - $850,000*.0357 = $30,345.00. Now, add them together to get $41,905.00. This number split at 95% State and 5% Local is $39,809.75 State and $2,095.25 Local. Add this on to your $1M value above to get a final breakout of **$950,000 IIJA (91.2%), $64,810 State (6.2%), and $27,095 Local (2.6%).** This is your total grant request for the entire project.

Special Note: Contingency is for payment adjustments, only. Indexing is eligible if FAA approved MOS, so if an amendment is needed, it is federally eligible. Contingency outright is not federally eligible, per AIP handbook. For large projects, like let's say $10M+, you may not need to apply all the contingency especially with budget shortcomings. Evaluate the geopolitical climate at the time and potential for volatility. Work with your state project manager on this.

Appendix A:

The following pages are an example Reimbursement Invoice Packet from (KMQY) Smyrna Runway 14/32 Rehabilitation/Reconstruction and Airfield Lighting Replacement.

ASP109A used in contract for project

ASP109A — ASP109A

Page 1 of 3

STATE OF TENNESSEE

(Rev.) — June 10, 2025

AVIATION SPECIAL PROVISION

REGARDING

PAYMENT ADJUSTMENT FOR FUEL

This special provision covers the method of payment adjustment for fuel price increases or decreases. Payment adjustments will be made in monthly increments based on the estimated fuel consumed on included items of work, the estimated price per gallon of fuel at the time of letting, and the percentage change of the Producer Price Index for Light fuel oils, Series ID Number WPU0573, published by the U.S. Department of Labor, Bureau of Labor Statistics.

The estimated price per gallon of fuel for this contract is $ 2.39.

The April 2025 Price Index (Ib) for light fuel oils shall be used for this contract. Adjustments will be based on the price index in effect for the month in which the item was installed.

Fuel consumption for payment adjustment shall be based on the following:

Item Number	Description of Work	Gallons per unit	Unit of measure
152, 153, 154, 155,	Any Excavation, Subgrade, Subbase, or		

ASP109B used in contract for project

ASP109B — ASP109B

Page 1 of 3

STATE OF TENNESSEE

April 1, 2025

AVIATION SPECIAL PROVISION

REGARDING

PAYMENT ADJUSTMENT FOR BITUMINOUS MATERIAL

This Special Provision covers the method of payment adjustment for bituminous materials. The price adjustment shall produce either a cost increase or cost decrease to the project. Any increased price adjustment shall be reimbursed by grant and/or owner funds.

The payment adjustment shall be calculated for all asphalt cement, asphalt emulsion, or bituminous material quantities used for paving or sealing on this project and will be made to compensate for increases and decreases of 5% or more in the contractor's bituminous material cost. The normal bid items in the contract covering the bituminous material shall not be changed. Payment adjustments (positive or negative) shall be paid under invoice descriptions such as Bituminous Material Price Adjustment. The TAD Material Adjustment monthly calculation records and summaries are to be attached with invoices and calculated as described herein.

A "Basic Bituminous Material Index" will be established by the Airport Engineer of Record prior to the time the bids are opened. This "Basic Bituminous Material Index" is the average of the current quotations on Performance Graded (PG.) 64-22 from suppliers furnishing asphalt cement to contractors in the State of Tennessee. These quotations are the cost per ton f.o.b. supplier's terminal.

The "Basic Bituminous Material Index" for this project is $600.00 per ton.

SMYRNA / RUTHERFORD COUNTY AIRPORT AUTHORITY

August 6, 2026

TN Aeronautics Division
7335 Centennial Boulevard
Nashville, TN 37209

RE: Runway 14/32 Rehab – Construction
TAD Project No 75-555-0189-25
TAD Contract No AERO-25-418-00
Federal Grant No 3-47-SBGP-89, 103, 104

The Airport Authority respectfully requests payment of the attached invoice in the amount of $3,296,580.77 on the referenced project. Supporting documentation for expenses is also included.

Thank you for your assistance. Please let me know if you need anything else from me.

incere

Smyrna Airport
278 Doug Warpoole Rd Ste 200 / Smyrna, Tennessee 37167 / Phone: 615-459-2651 / Fax: 615-459-1030
www.smyrnaairport.com

TAD Project No.: 75-555-0189-25 TAD Contract No.: AERO-25-418-00

Invoice Number: 6 (Six)

Period From: 6/1/26 Period To: 6/30/26

Time Computed From (Start Date): 1/15/26

County: Rutherford

Airport ID: MQY

Working Days, Current; Previous: 30 137 Total to Date: 167 Time Limit (Days): 300

Total Construction Contract Award: $ 16,577,923.60 Revised Contract Amount: $ 16,577,923.60 Revision #: 0

Grant End Date: 6/12/28

TN FY for Service Dates: 2026

To Be Completed: 11/10/26

Contract % Completed: 34%

% Consumed: 56%

Date Approved: 12/17/2025

Item No.	Spec No.	Items Description	Unit	Plans Quantities	Quantities Current	Quantities Previous	Quantities Total	Unit Price	Total Amount	% Total
		Schedule I								
1	C-100-14.1	Contractor Quality Control Program	L.S.	1.00	0.00	0.15	0.15	$300,000.00	$45,000.00	15%
2	C-102-5.1	Inspection and Reporting to TDEC and Maintenance of Statewide NPDES General Permit Coverage for Construction Site Stormwater Runoff	L.S.	1.00	0.00	0.00	0.00	$50,000.00	$0.00	0%
3	C-102-5.2	Install and Maintain 20-ft Ditch Wattle, 12-inch Diameter, and Remove upon Completion of Project	EA.	56.00	0.00	28.00	28.00	$80.60	$2,256.80	50%
4	C-102-5.3	Install and Maintain Inlet Protection and Remove upon Completion of Project	EA.	41.00	0.00	20.50	20.50	$161.00	$3,300.50	50%
5	C-102-5.5	Install and Maintain Silt Fence, and Remove upon Completion of Project	L.F.	7,100.00	0.00	3,550.00	3,550.00	$4.30	$15,265.00	50%
6	C-102-5.6	Enhanced Check Dam	EA.	13.00	0.00	7.50	7.50	$806.00	$6,045.00	58%
7	C-102-5.7	Temporary Seeding with Mulch	ACRE	65.50	0.00	0.00	0.00	$750.00	$0.00	0%
8	C-102-5.8	Temporary Diversion Berm	L.F.	2,680.00	0.00	650.50	650.50	$5.00	$3,252.50	24%
9	C-102-5.9	Stone Filter Ring for Culvert Protection	EA.	1.00	0.00	0.50	0.50	$1,070.00	$535.00	50%
10	C-102-5.10	Temporary Sediment Trap	EA.	1.00	0.00	0.00	0.00	$15,600.00	$0.00	0%
11	C-105-7.1	Mobilization and Demobilization	L.S.	1.00	0.00	0.15	0.15	$400,000.00	$60,000.00	15%
12	C-105-7.2	As-Built Drawings	L.S.	1.00	0.00	0.00	0.00	$195,000.00	$0.00	0%
13	M-101-4.1	Maintenance of Traffic	L.S.	1.00	0.20	0.14	0.34	$455,000.00	$154,700.00	34%
14	M-101-4.2	Furnish, Deploy, Maintain, Fuel, and Turn Over to Airport a Pair of L-893(L) Portable Lighted Runway Closure Markers	L.S.	1.00	0.00	0.40	0.40	$125,000.00	$50,000.00	40%
15	M-101-4.3	Low-Profile Barricade	EA.	61.00	0.00	60.00	60.00	$800.00	$48,000.00	98%
16	P-101-5.1	Asphalt Milling for Overlay, Approximate Depth 5 inches	S.Y.	41,690.00	0.00	38,414.00	38,414.00	$6.25	$240,087.50	92%
17	P-101-5.2	Removal of Weathered Asphalt Paved Overrun Pavement, Min. Depth 12", including Off-site Disposal	S.Y.	11,230.00	0.00	10,383.00	10,383.00	$8.50	$88,255.50	92%
18	P-101-5.3	Asphalt Runway Pavement Removal (7 to 9 inches of Asphalt Layers and 9 to 11 inches of Aggregate Base) to 12-inch Min. Depth in Excess Runway Width Areas, including Off-site Disposal	S.Y.	1,610.00	0.00	0.00	0.00	$26.00	$0.00	0%
19	P-101-5.4	Composite Runway Pavement Removal 12 to 18 inches Total Depth to Bottom of Concrete Slab in Pavement Reconstruction Areas, including 7- to 9-inch Concrete Slab Thickness and Variable Thickness Asphalt Overlay 5 to 11 inches, including Off-site Disposal	S.Y.	28,650.00	3,252.00	23,024.00	26,276.00	$19.25	$505,813.00	92%
20	P-101-5.5	Milling for Removal of Asphalt Overlay (6 to 9 inches of Asphalt Layers) from Composite Runway Pavement in Preparation for Rubblization of Concrete for new 12-inch Pavement Section Build-up	S.Y.	26,700.00	0.00	27,053.33	27,053.33	$5.25	$142,029.98	101%
21	P-101-5.6	Variable Depth 0.5-inch to 2-inch Asphalt Surface Milling for Smooth Tie-in of New Pavement Surface	S.Y.	2,950.00	1,222.00	0.00	1,222.00	$5.50	$6,721.00	41%
22	P-152-4.1	Unclassified Excavation to On-Airport Embankment Areas	C.Y.	16,900.00	0.00	14,894.00	14,894.00	$27.00	$402,138.00	88%
23	P-152-4.2	Undercut Excavation of Yielding Materials to Off-Site Disposal, Including Backfill from Project Site Sources	C.Y.	23,300.00	1,090.00	0.00	1,090.00	$27.00	$29,430.00	5%
24	P-152-4.3	Backfill of Undercut Areas with Surge Stone	TON	47,770.00	0.00	0.00	0.00	$25.00	$0.00	0%
25	P-152-4.4	Unclassified Excavation to Off-Site Disposal	C.Y.	35,100.00	60.00	7,798.00	7,858.00	$27.00	$212,166.00	22%
26	P-152-4.5	Topsoil Stripping to On-Site Stockpile	C.Y.	34,000.00	0.00	26,930.26	26,930.26	$10.10	$271,995.63	79%
27	P-152-4.6	Undercut Excavation for Sinkhole Repairs	C.Y.	1,300.00	0.00	0.00	0.00	$25.00	$0.00	0%
28	P-152-4.7	Select Rubble Stone for Sinkhole Repairs	TON	1,820.00	0.00	0.00	0.00	$50.00	$0.00	0%
29	P-152-4.8	TDOT No. 57 Stone Fill for Sinkhole Repairs	TON	800.00	0.00	0.00	0.00	$32.00	$0.00	0%
30	P-152-4.9	Geotextile for Sinkhole Repairs	SY	2,600.00	0.00	0.00	0.00	$2.50	$0.00	0%
31	P-156-8.1	Cement Treated Subgrade, 10-inch Depth	S.Y.	28,650.00	0.00	0.00	0.00	$3.95	$0.00	0%
32	P-156-8.2	Cement for Subgrade Stabilization	TON	740.00	0.00	0.00	0.00	$245.00	$0.00	0%
33	P-209-5.1	Crushed Aggregate Base Course, 8-Inch or 10-inch Thickness	TON	33,300.00	130.22	0.00	130.22	$43.10	$5,612.48	0%
34	P-215-5.1	Rubblize Concrete, In Place	S.Y.	26,700.00	0.00	26,700.00	26,700.00	$2.25	$60,075.00	100%
35	P-401-8.1.1a	Asphalt Surface Course, 2" Lifts, 3/4-inch Max. Aggregate Size, PG 76-22	TON	29,600.00	16,585.13	0.00	16,585.13	$170.00	$2,819,472.10	56%
36	P-602-5.1	Emulsified Asphalt Prime Coat	GAL	12,800.00	0.00	0.00	0.00	$5.00	$0.00	0%
37	P-603-5.1	Emulsified Asphalt Tack Coat	GAL	17,350.00	8,671.50	0.00	8,671.50	$5.00	$43,357.50	50%
38	P-620-5.1	Airfield Markings, White, Yellow, or Red, with Reflective Media	S.F.	132,500.00	0.00	0.00	0.00	$0.64	$0.00	0%
39	P-620-5.2	Airfield Markings, Black, without Reflective Media	S.F.	27,600.00	0.00	0.00	0.00	$0.54	$0.00	0%
40	P-620-5.3	Temporary Airfield Markings, White or Yellow, without Reflective Media	S.F.	58,100.00	0.00	0.00	0.00	$0.86	$0.00	0%
41	P-621-5.1	Grooving	S.Y.	84,330.00	0.00	0.00	0.00	$1.95	$0.00	0%

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42	D-701-5.1	Class III, 18-inch Diameter Reinforced Concrete Pipe, Including Excavation, Removal of Exisiting Pipe along Same Alignment, Pipe Bedding, Pipe Collar at Connection, and Backfill	L.F.	100.00	0.00	100.00	100.00	$140.00	$14,000.00	100%
43	D-701-5.2	Class III, 23-inch x 14-inch Horizontal Elliptical Reinforced Concrete Pipe, Including Excavation, Pipe Bedding, and Backfill	L.F.	20.00	0.00	0.00	0.00	$421.00	$0.00	0%
44	D-701-5.3	Class III, 24-inch Diameter Reinforced Concrete Pipe, Including Excavation, Pipe Bedding, and Backfill	L.F.	370.00	0.00	76.00	76.00	$145.00	$11,020.00	21%
45	D-701-5.4	Class III, 30-inch Diameter Reinforced Concrete Pipe, Including Excavation, Pipe Bedding, and Backfill	L.F.	260.00	0.00	0.00	0.00	$229.00	$0.00	0%
46	D-751-5.1	Remove and Reconstruct Inlet Structure B10, TDOT 611-39.03 Std. 4'x4' Square No. 39 Catch Basin, including Excavation, Base Stone Bedding, and Backfill	EA.	1.00	0.00	0.00	0.00	$33,400.00	$0.00	0%
47	D-751-5.2	Install New Inlet Structure B10B, TDOT 611-39.02 Std. 4'x4' Square No. 39 Catch Basin, including Excavation, Base Stone Bedding, and Backfill	EA.	1.00	0.00	0.00	0.00	$28,600.00	$0.00	0%
48	D-751-5.3	Install New Inlet Structure A7B, TDOT 611-39.02 Std. 4'x4' Square No. 39 Catch Basin, including Excavation, Base Stone Bedding, and Backfill	EA.	1.00	0.00	0.00	0.00	$27,200.00	$0.00	0%
49	D-751-5.4	Connect and Grout New 24" RCP into Inlet Structure A7 at New Cored Opening	EA.	1.00	0.00	0.00	0.00	$4,480.00	$0.00	0%
50	D-751-5.5	Remove and Reconstruct Inlet Structure A28, TDOT 611-39.01 Std. 4'x4' Square No. 39 Catch Basin, including Excavation, Base Stone Bedding, and Backfill	EA.	1.00	0.00	0.00	0.00	$31,500.00	$0.00	0%
51	D-751-5.6	Adjust Inlet Structure A37 to Lower the Inlet Grate Elevation 1.41'	EA.	1.00	0.00	0.00	0.00	$12,000.00	$0.00	0%
52	D-751-5.7	Adjust Inlet Structure A36 to Lower the Inlet Grate Elevation 0.88'	EA.	1.00	0.00	0.00	0.00	$12,000.00	$0.00	0%
53	D-751-5.8	Adjust Inlet Structure A34 to Lower the Inlet Grate Elevation 0.68'	EA.	1.00	0.00	0.00	0.00	$12,000.00	$0.00	0%
54	D-751-5.09	Remove and Reconstruct Inlet Structure A21, TDOT 611-39.02 Std. 4'x4' Square No. 39 Catch Basin, including Excavation, Base Stone Bedding, and Backfill	EA.	1.00	0.00	0.00	0.00	$32,900.00	$0.00	0%
55	D-751-5.10	Install New Inlet Structure A20, TDOT 611-39.02 Std. 4'x4' Square No. 39 Catch Basin, including Excavation, Base Stone Bedding, and Backfill	EA.	1.00	0.00	0.00	0.00	$31,500.00	$0.00	0%
56	D-752-5.1	Headwall for 23-inch x 14-inch Horizontal Elliptical Reinforced Concrete Pipe	EA.	2.00	0.00	0.00	0.00	$1,260.00	$0.00	0%
57	T-901-5.1	Seeding, Hydraulically Applied with Mulch	ACRE	65.50	0.00	0.00	0.00	$3,000.00	$0.00	0%
58	T-904-5.1	Bermudagrass Sod	S.Y.	15,100.00	0.00	0.00	0.00	$8.05	$0.00	0%
59	T-905-5.1	Topsoil Placement from On-Site Stockpiles	C.Y.	34,000.00	0.00	3,858.00	3,858.00	$18.00	$69,444.00	11%
60	T-905-5.2	Topsoil Placement from Off-Site Sources	C.Y.	1,500.00	0.00	0.00	0.00	$40.00	$0.00	0%
61	L-100-5.2	Site Locating, Duct Tracing, and Pot Holing	L.S.	1.00	0.00	0.50	0.50	$4,030.00	$2,015.00	50%
62	L-104-6.1	Temporary Airfield Lighting During Construction	L.S.	1.00	0.20	0.14	0.34	$20,100.00	$6,834.00	34%
63	L-105-5.1	Elecrical Demolition	L.S.	1.00	0.00	0.80	0.80	$17,700.00	$14,160.00	80%
64	L-107-5.1	Installed L-806 Illuminated Supplemental Wind Cone And Foundation, in Place	EA.	2.00	0.00	0.00	0.00	$16,100.00	$0.00	0%
65	L-108-5.1	No.8 AWG, 5 kV, L-824, Type C Cable, Colored or Black, Installed in Duct Bank or Conduit	L.F.	5,500.00	0.00	0.00	0.00	$2.40	$0.00	0%
66	L-108-5.2	No.6 AWG, 5 kV, L-824, Type C Cable, Red in Color, Installed in Duct Bank or Conduit	L.F.	28,500.00	0.00	0.00	0.00	$2.95	$0.00	0%
67	L-108-5.3	No.6 AWG, Solid, Bare Copper Counterpoise Wire, Installed in turf, Including Connections/Terminations	L.F.	22,700.00	0.00	0.00	0.00	$2.70	$0.00	0%
68	L-108-5.4	2- 1/0 copper Type XXHW 600 Volt and 1- #6 Green XXHW 600 Volt Cables for New RW 14 PAPI Feed	L.F.	2,450.00	0.00	0.00	0.00	$10.80	$0.00	0%
69	L-108-5.5	2- #8 copper Type XXHW 600 Volt and 1- #10 Green XXHW 600 Volt Cables for New RW 32 PAPI Feed	L.F.	350.00	0.00	0.00	0.00	$5.40	$0.00	0%
70	L-110-5.1	Concrete Encased 1 Way 2 Inch Duct	L.F.	520.00	0.00	0.00	0.00	$21.50	$0.00	0%
71	L-110-5.2	Non-Concrete Encased 1 Way 2 Inch Duct	L.F.	20,480.00	0.00	0.00	0.00	$8.60	$0.00	0%
72	L-110-5.3	Concrete-Encased 2 Way 4 Inch Duct	L.F.	170.00	0.00	0.00	0.00	$75.20	$0.00	0%
73	L-110-5.4	Non-Concrete Encased 4 Way 4 Inch Duct	L.F.	150.00	0.00	0.00	0.00	$59.10	$0.00	0%
74	L-110-5.5	Non-Concrete Encased 2 Way 4 Inch Duct	L.F.	1,805.00	0.00	0.00	0.00	$32.20	$0.00	0%
75	L-110-5.6	Non-Concrete Encased 2 Way 2 Inch Duct for MTE Primary Cable	L.F.	2,900.00	0.00	2,900.00	2,900.00	$20.40	$59,160.00	100%
76	L-110-5.7	Non-Concrete Encased 1 Way 3 Inch Duct	L.F.	310.00	0.00	0.00	0.00	$10.80	$0.00	0%
77	L-110-5.8	Non-Concrete Encased 1 Way 4 Inch Duct	L.F.	530.00	0.00	0.00	0.00	$13.40	$0.00	0%
78	L-115-5.1	Installation of L-867B Base Cans for Runway and Taxiway Lighting	EA.	108.00	0.00	0.00	0.00	$752.00	$0.00	0%
79	L-115-5.2	Installation of L-868B Base Cans for Runway Lighting Fixtures	EA.	4.00	0.00	0.00	0.00	$967.00	$0.00	0%
80	L-115-5.3	Installation of L-867D Base Cans for Junction Can	EA.	7.00	0.00	0.00	0.00	$1,610.00	$0.00	0%
81	L-115-5.4	Installation of 30"x48"x36" Primary Pull Box	EA.	8.00	0.00	8.00	8.00	$1,880.00	$15,040.00	100%
82	L-115-5.5	4 Foot x 4 Foot x 4 Foot Utility Manhole with Square Spring Assist Lid.	EA.	8.00	0.00	0.00	0.00	$16,700.00	$0.00	0%
83	L-125-5.1	Installation of New L-861T(L) Fixture with New Fixture Plate and New L-830 Isolation Transformer on New Installed L867(B) Base Can	EA.	36.00	0.00	0.00	0.00	$806.00	$0.00	0%

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84	L-125-5.2	Installation of Existing L-862 Fixture with Existing Fixture Plate and Existing L-830 Isolation Transformer on Newly Installed L867(B) Base Can	EA.	52.00	0.00	0.00	0.00	$484.00	$0.00	0%
85	L-125-5.3	Installation of Existing L-862E Fixture with Existing Fixture Plate and Existing L-830 Isolation Transformer on Newly Installed L867(B) Base Can	EA.	8.00	0.00	0.00	0.00	$484.00	$0.00	0%
86	L-125-5.4	Installation of Existing L-862 Fixture with Existing L-830 Isolation Transformer on New 3/4" base Plate on Newly Installed L868(B) Base Can	EA.	4.00	0.00	0.00	0.00	$484.00	$0.00	0%
87	L-125-5.5	Install of New REIL Including New Foundation, New L-849(L) REILS, New L867B Base Cans, and Supporting Conduit Per Plans	EA.	1.00	0.00	0.00	0.00	$645.00	$0.00	0%
88	L-125-5.6	Installation of Existing L-862E Fixture with Existing Fixture Plate and Existing L-830 Isolation Transformer on Newly Installed L867(B) Base Can in Pavement Area	EA.	8.00	0.00	0.00	0.00	$18,800.00	$0.00	0%
89	L-126-5.1	Install Existing L-858 (L) Distance Remaining Sign on New Foundation – 1 Module	EA.	5.00	0.00	0.00	0.00	$484.00	$0.00	0%
90	L-126-5.2	Install Existing L-858 (L) Direction Sign on New Foundation – 1 Module	EA.	6.00	0.00	0.00	0.00	$4,570.00	$0.00	0%
91	L-126-5.3	Install Existing L-858 (L) Directional Sign on New Foundation – 3 Module	EA.	6.00	0.00	0.00	0.00	$4,570.00	$0.00	0%
92	L-131-5.1	Installation of L-880(L) 4-Box PAPI Array	EA.	2.00	0.00	0.00	0.00	$5,110.00	$0.00	0%
93	L-203-5.1	MALSR Threshold Bar Reconstruction and New Power Feed	L.S.	1.00	0.00	0.00	0.00	$88,700.00	$0.00	0%
94	ToS-W-10.02	6-inch PVC Water Line, Including Fittings, Tie-ins to Exisitng Line, and Removal of Existing Line	L.F.	1,000.00	0.00	0.00	0.00	$126,000.00	$0.00	0%
95	TNP-109-8.1a	Fuel Price Adjustment	Dollar	1.00	80,496.93	9,268.51	89,765.44	$90.00	$0.00	0%
96	TNP-109-8.1b	Bituminous Material Price Adjustment	Dollar	1.00	152,249.76	0.00	152,249.76	$1.00	$89,765.44	8976544%
			Total Current Amount:	$ 3,296,580.77				$1.00	$152,249.76	15224976%

Contract Amount	$	16,577,923.60
Total Estimate to Date	$	5,649,196.69
Contract Balance	$	10,928,726.91

Total Estimate to Date:	$5,649,196.69	34%
Previous Payments:	$ 2,352,615.92	
Balance No. 1:	$3,296,580.77	
Deductions:	$0.00	
Amt. due this Estimate:	$3,296,580.77	

I hereby certify that the quantities and amounts herein shown are correct.

8/3/2026

8/06/2026

Revised December 16th, 2024

Pay Form C1

TAD Bituminous Materials Adjustment Spreadsheet

Project Information

Project Title	Runway 14-32 Reconstruction and RSA Improvements Project 1
TAD Proj. No.	75-555-0189-25
Airport ID	MQY
Airport Name	Smyrna Airport
County	Rutherford
Region	3
Prime Contractor	Construction Materials , LLC

Bituminous Index

Base Bidding Date	26-Jun-25
Bidding Index (Ib)	$600.00
Date Calculation Performed (i.e., Current Date)	July 17, 2026
Bituminous Index (Ic) for Bituminous Index Month	$746.92
Pay Estimate Number	6
Percent Change	**24.49%**

Bituminous Index Month	Jun-26
Total Bituminous Payment Adjustment (Paid using item TNP-109-8.1b)	$152,249.76
Computed by	D

Clear

Payment Adjustment 1 - Virgin Mix

$$\mathbf{PA_1 = [Index\ for\ current\ Month - Index\ for\ Bidding]\ x\ Tons\ of\ Bit.Materials}$$

Flexible Pavements (Virgin)

Item Number	Flexible Pavement Descriptions	Mixture Materials, ton	Mix Design AC, Percent	Bituminous Material, ton	Payment Adjustment, $
P-401-8.1-c	Asphalt Surface Course (Gradation 1, PG 76-22)	16585.13	6.10%	1011.69	$148,637.93
				0.00	$0.00
				0.00	$0.00
				0.00	$0.00
				0.00	$0.00
				0.00	$0.00
				0.00	$0.00
Subtotal					**$148,637.93**

Surface Treatments

Current Date	July 17, 2026

Item Number	Surface Treatment Description	Application Number based on Specification or Mix Measurement Type	Unit of Measure	Quantity	Estimated Applied Material, ton	Estimated Residue, Percent	Estimated Bituminous Material, ton	Payment Adjustment, $
						0.00%	0.00	$0.00
						0.00%	0.00	$0.00
						0.00%	0.00	$0.00
						0.00%	0.00	$0.00
						0.00%	0.00	$0.00
						0.00%	0.00	$0.00
						0.00%	0.00	$0.00
						0.00%	0.00	$0.00
Subtotal								**$0.00**

Prime and Tack Coats

Item Number	Prime and Tack Coat Description	Unit of Measure	Quantity	Materials, ton	Asphalt Residue, Percent	Bituminous Material, ton	Payment Adjustment, $
P-602-5.1-a	Emulsified Asphalt Prime Coat	GAL	0	0.00	54.00%	0.00	$0.00
P-603-5.1-a	Emulsified Asphalt Tack Coat	GAL	8671.5	39.02	63.00%	24.58	$3,611.84
				0.00	0.00%	0.00	$0.00
				0.00	0.00%	0.00	$0.00
Subtotal							**$3,611.84**

Payment Adjustment - 2 - Recycled Mix

$$PA_2 = [\text{Index for current Month} - \text{Index for Bidding}] \text{ x } \frac{[\%\text{ AC in JMF} - \%\text{ AC from Reclaimed Asphalt Pavement}]}{100} \text{ x Tons of Mix}$$

Recycled Bituminous Material

Item Number	Description	Mixture Materials, Ton	Job-mix Formula AC (JA), Percent	Reclaimed AC (RA) Mix Contribution, Percent	Payment Adjustment, $

					$0.00
					$0.00
					$0.00
Subtotal					**$0.00**

TAD Fuel Price Adjustment Spreadsheet

Aeronautics Division

Project Information

Project Title	Runway 14-32 Reconstruction and RSA Improvements Project 1
TAD Proj. No.	75-555-0189-25
Airport ID	MQY
Airport Name	Smyrna Airport
County	Rutherford
Region	3
Prime Contractor	Construction Materials , LLC

Fuel Index

Base Bidding Date	26-Jun-25
Fuel Price (Fp)	$2.39
Bidding Index (Ib)	267
Date Calculation Performed (i.e., Current Date)	July 16, 2026
Fuel Index (Ic) for Fuel Index Month	447.9
Pay Estimate Number	6
Percent Change	**67.75%**

Fuel Index Month	Jun-26
Total Fuel Payment Adjustment (Paid using item TNP-109-8.1a)	$80,496.93
Computed by	D

Clear

Payment Adjustment

$$PA = \left[\frac{\text{Index for current Month}}{\text{Index for Bidding}} - 1\right] \text{ x Fe x Fuel Price for Bidding}$$

Where Fe= $\sum$(Pay quantity x Gallons per unit)

Item Number	Item Descriptions	Fuel Factor	Unit of Measure	Quantity	Fe	Fuel Adjustment, $
P-152-4.1-a	Unclassified Excavation to On-Airport Embankment Areas	0.25	Cubic Yard	0.00	0.00	$0.00
P-152-4.1-f	Undercut Excavation of Yielding Materials to Off-Site Disposal, Including Backfill from Project Site Sources	0.25	Cubic Yard	1090.00	272.50	$441.26
P-152-4.3-a	Unclassified Excavation to Off-Site Disposal	0.25	Cubic Yard	60.00	15.00	$24.29
P-152-4.1g	Undercut Excavation for Sinkhole Repairs	0.25	Cubic Yard	0.00	0.00	$0.00
P-156-8.1-a	Cement treated subgrade	0.1	Square Yard	0.00	0.00	$0.00
P-209-5.1-e	Crushed Aggregate Base Course	0.79	Ton	0.00	0.00	$0.00
P-401-8.1-c	Asphalt Surface Course (Gradation 1, PG 76-22)	2.98	Ton	16585.13	49423.69	$80,031.39
					0.00	$0.00
					0.00	$0.00
					0.00	$0.00
					0.00	$0.00
					0.00	$0.00
					0.00	$0.00
					0.00	$0.00
					0.00	$0.00
					0.00	$0.00
					0.00	$0.00
					0.00	$0.00
Total Fuel Adjustment , $						$80,496.93

Bituminous Adjustment

Months	Monthly Payment Adjustment	Computed by
February-26	$0.00	D
June-26	$152,249.76	D

Bituminous Adjustment Running Total

$152,249.76

Clear

Items with payment adjustments [Item Number($ Adjustment)]

1	2	3	4	5	6	7	8	9	10	11	12
P-401-8.1-c ($148637.9	P-603-5.1-a ($3611.84)										

Fuel Adjustment

Months	Monthly Payment Adjustment	Computed by
February-26	$15.42	D
March-26	$4,056.73	D
April-26	$2,991.47	D
May-26	$2,204.89	D
June-26	$80,496.93	D

Fuel Adjustment Running Total

$89,765.45

Items with payment adjustments [Item Number($ Adjustment)]

1	2	3	4	5	6	7	8	9	10	11	12
P-152-4.3-a ($15.42)											
P-152-4.1-a ($1860.45)	P-152-4.3-a ($2196.28)										
P-152-4.1-a ($2991.47)											
P-152-4.1-a ($1643.01)	P-152-4.3-a ($561.88)										
P-152-4.1-f ($441.26)	P-152-4.3-a ($24.29)	P-401-8.1-c ($80031.39)									

Total Adjustments

$242,015.21

*Print area only covers until item number 15.

TDOT AERONAUTICS DIVISION

CONFIRMATION OF CONSTRUCTION QUANTITIES

Construction Materials, LLC

TN TDOT Department of Transportation

Runway 14-32 Reconstruction and Safety Improvements - Project 1

TAD Project Number:	75-555-0189-25	TAD Contract Number:	AERO-25-418-00	Grant End Date:	6/12/2028
BlackCat Invoice Number:	AER1024841	Invoice Number:	6 (six)	TN Fiscal Year (FY):	2026
Period From - To:	6/1/26 – 6/30/26	County:	Rutherford	To Be Completed:	11/10/26
Time Computed From (Start Date):	1/15/26	Airport ID:	MQY	Contract % Completed:	34%
Working Days, Current:	30 Total to Date: 167	Time Limit:	300	Days Consumed:	56%
Total Contract Amount:	$ 16,577,923.60 Revised Contract Amount: $ 16,577,923.60	Revision #:		Date Approved:	12/17/25

Item No.	Items Description	Unit	Plans Quantities	Quantities Current	Quantities Previous	Quantities Total	Unit Price	Total Amount	% Total
	Schedule I								
1	Contractor Quality Control Program	L.S.	1.00	0.00	0.15	0.15	$300,000.00	$45,000.00	15%
2	Inspection and Reporting to TDEC and Maintenance of Statewide NPDES General Permit Coverage for Construction Site Stormwater Runoff	L.S.	1.00	0.00	0.00	0.00	$50,000.00	$0.00	0%
3	Install and Maintain 20-ft Ditch Wattle, 12-inch Diameter, and Remove upon Completion of Project	EA.	56.00	0.00	28.00	28.00	$80.60	$2,256.80	50%
4	Install and Maintain Inlet Protection and Remove upon Completion of Project	EA.	41.00	0.00	20.50	20.50	$161.00	$3,300.50	50%
5	Install and Maintain Silt Fence, and Remove upon Completion of Project	L.F.	7,100.00	0.00	3,550.00	3,550.00	$4.30	$15,265.00	50%
6	Enhanced Check Dam	EA.	13.00	0.00	7.50	7.50	$806.00	$6,045.00	58%
7	Temporary Seeding with Mulch	ACRE	65.50	0.00	0.00	0.00	$750.00	$0.00	0%
8	Temporary Diversion Berm	L.F.	2,680.00	0.00	650.50	650.50	$5.00	$3,252.50	24%
9	Stone Filter Ring for Culvert Protection	EA.	1.00	0.00	0.50	0.50	$1,070.00	$535.00	50%
10	Temporary Sediment Trap	EA.	1.00	0.00	0.00	0.00	$15,600.00	$0.00	0%
11	Mobilization and Demobilization	L.S.	1.00	0.00	0.15	0.15	$400,000.00	$60,000.00	15%
12	As-Built Drawings	L.S.	1.00	0.00	0.00	0.00	$195,000.00	$0.00	0%
13	Maintenance of Traffic	L.S.	1.00	0.20	0.14	0.34	$455,000.00	$154,700.00	34%
14	Furnish, Deploy, Maintain, Fuel, and Turn Over to Airport a Pair of L-893(L) Portable Lighted Runway Closure Markers	L.S.	1.00	0.00	0.40	0.40	$125,000.00	$50,000.00	40%
15	Low-Profile Barricade	EA.	61.00	0.00	60.00	60.00	$800.00	$48,000.00	98%
16	Asphalt Milling for Overlay, Approximate Depth 5 inches	S.Y.	41,690.00	0.00	38,414.00	38,414.00	$6.25	$240,087.50	92%
17	Removal of Weathered Asphalt Paved Overrun Pavement, Min. Depth 12", including Off-site Disposal	S.Y.	11,230.00	0.00	10,383.00	10,383.00	$8.50	$88,255.50	92%
18	Asphalt Runway Pavement Removal (7 to 9 inches of Asphalt Layers and 9 to 11 inches of Aggregate Base) to 12-inch Min. Depth in Excess Runway Width Areas, including Off-site Disposal	S.Y.	1,610.00	0.00	0.00	0.00	$26.00	$0.00	0%
19	Composite Runway Pavement Removal 12 to 18 inches Total Depth to Bottom of Concrete Slab in Pavement Reconstruction Areas, including 7- to 9-inch Concrete Slab Thickness and Variable Thickness Asphalt Overlay 5 to 11 inches, including Off-site Disposal	S.Y.	28,650.00	3,252.00	23,024.00	26,276.00	$19.25	$505,813.00	92%
20	Milling for Removal of Asphalt Overlay (6 to 9 inches of Asphalt Layers) from Composite Runway Pavement in Preparation for Rubblization of Concrete for new 12-inch Pavement Section Build-up	S.Y.	26,700.00	0.00	27,053.33	27,053.33	$5.25	$142,029.98	101%
21	Variable Depth 0.5-inch to 2-inch Asphalt Surface Milling for Smooth Tie-in of New Pavement Surface	S.Y.	2,950.00	1,222.00	0.00	1,222.00	$5.50	$6,721.00	41%
22	Unclassified Excavation to On-Airport Embankment Areas	C.Y.	16,900.00	0.00	14,894.00	14,894.00	$27.00	$402,138.00	88%
23	Undercut Excavation of Yielding Materials to Off-Site Disposal, Including Backfill from Project Site Sources	C.Y.	23,300.00	1,090.00	0.00	1,090.00	$27.00	$29,430.00	5%
24	Backfill of Undercut Areas with Surge Stone	TON	47,770.00	0.00	0.00	0.00	$25.00	$0.00	0%
25	Unclassified Excavation to Off-Site Disposal	C.Y.	35,100.00	60.00	7,798.00	7,858.00	$27.00	$212,166.00	22%
26	Topsoil Stripping to On-Site Stockpile	C.Y.	34,000.00	0.00	26,930.26	26,930.26	$10.10	$271,995.63	79%
27	Undercut Excavation for Sinkhole Repairs	C.Y.	1,300.00	0.00	0.00	0.00	$25.00	$0.00	0%
28	Select Rubble Stone for Sinkhole Repairs	TON	1,820.00	0.00	0.00	0.00	$50.00	$0.00	0%
29	TDOT No. 57 Stone Fill for Sinkhole Repairs	TON	800.00	0.00	0.00	0.00	$32.00	$0.00	0%
30	Geotextile for Sinkhole Repairs	SY	2,600.00	0.00	0.00	0.00	$2.50	$0.00	0%
31	Cement Treated Subgrade, 10-inch Depth	S.Y.	28,650.00	0.00	0.00	0.00	$3.95	$0.00	0%
32	Cement for Subgrade Stabilization	TON	740.00	0.00	0.00	0.00	$245.00	$0.00	0%
33	Crushed Aggregate Base Course, 8-Inch or 10-inch Thickness	TON	33,300.00	130.22	0.00	130.22	$43.10	$5,612.48	0%
34	Rubblize Concrete, In Place	S.Y.	26,700.00	0.00	26,700.00	26,700.00	$2.25	$60,075.00	100%
35	Asphalt Surface Course, 2" Lifts, 3/4-inch Max. Aggregate Size, PG 76-22	TON	29,600.00	16,585.13	0.00	16,585.13	$170.00	$2,819,472.10	56%
36	Emulsified Asphalt Prime Coat	GAL	12,800.00	0.00	0.00	0.00	$5.00	$0.00	0%
37	Emulsified Asphalt Tack Coat	GAL	17,350.00	8,671.50	0.00	8,671.50	$5.00	$43,357.50	50%
38	Airfield Markings, White, Yellow, or Red, with Reflective Media	S.F.	132,500.00	0.00	0.00	0.00	$0.64	$0.00	0%
39	Airfield Markings, Black, without Reflective Media	S.F.	27,600.00	0.00	0.00	0.00	$0.54	$0.00	0%

40	Temporary Airfield Markings, White or Yellow, without Reflective Media	S.F.	58,100.00	0.00	0.00	0.00	$0.86	$0.00	0%
41	Grooving	S.Y.	84,330.00	0.00	0.00	0.00	$1.95	$0.00	0%
42	Class III, 18-inch Diameter Reinforced Concrete Pipe, Including Excavation, Removal of Exisiting Pipe along Same Alignment, Pipe Bedding, Pipe Collar at Connection, and Backfill	L.F.	100.00	0.00	100.00	100.00	$140.00	$14,000.00	100%
43	Class III, 23-inch x 14-inch Horizontal Elliptical Reinforced Concrete Pipe, Including Excavation, Pipe Bedding, and Backfill	L.F.	20.00	0.00	0.00	0.00	$421.00	$0.00	0%
44	Class III, 24-inch Diameter Reinforced Concrete Pipe, Including Excavation, Pipe Bedding, and Backfill	L.F.	370.00	0.00	76.00	76.00	$145.00	$11,020.00	21%
45	Class III, 30-inch Diameter Reinforced Concrete Pipe, Including Excavation, Pipe Bedding, and Backfill	L.F.	260.00	0.00	0.00	0.00	$229.00	$0.00	0%
46	Remove and Reconstruct Inlet Structure B10, TDOT 611-39.03 Std. 4'x4' Square No. 39 Catch Basin, including Excavation, Base Stone Bedding, and Backfill	EA.	1.00	0.00	0.00	0.00	$33,400.00	$0.00	0%
47	Install New Inlet Structure B10B, TDOT 611-39.02 Std. 4'x4' Square No. 39 Catch Basin, including Excavation, Base Stone Bedding, and Backfill	EA.	1.00	0.00	0.00	0.00	$28,600.00	$0.00	0%
48	Install New Inlet Structure A7B, TDOT 611-39.02 Std. 4'x4' Square No. 39 Catch Basin, including Excavation, Base Stone Bedding, and Backfill	EA.	1.00	0.00	0.00	0.00	$27,200.00	$0.00	0%
49	Connect and Grout New 24" RCP into Inlet Structure A7 at New Cored Opening	EA.	1.00	0.00	0.00	0.00	$4,480.00	$0.00	0%
50	Remove and Reconstruct Inlet Structure A28, TDOT 611-39.01 Std. 4'x4' Square No. 39 Catch Basin, including Excavation, Base Stone Bedding, and Backfill	EA.	1.00	0.00	0.00	0.00	$31,500.00	$0.00	0%
51	Adjust Inlet Structure A37 to Lower the Inlet Grate Elevation 1.41'	EA.	1.00	0.00	0.00	0.00	$12,000.00	$0.00	0%
52	Adjust Inlet Structure A36 to Lower the Inlet Grate Elevation 0.88'	EA.	1.00	0.00	0.00	0.00	$12,000.00	$0.00	0%
53	Adjust Inlet Structure A34 to Lower the Inlet Grate Elevation 0.68'	EA.	1.00	0.00	0.00	0.00	$12,000.00	$0.00	0%
54	Remove and Reconstruct Inlet Structure A21, TDOT 611-39.02 Std. 4'x4' Square No. 39 Catch Basin, including Excavation, Base Stone Bedding, and Backfill	EA.	1.00	0.00	0.00	0.00	$32,900.00	$0.00	0%
55	Install New Inlet Structure A20, TDOT 611-39.02 Std. 4'x4' Square No. 39 Catch Basin, including Excavation, Base Stone Bedding, and Backfill	EA.	1.00	0.00	0.00	0.00	$31,500.00	$0.00	0%
56	Headwall for 23-inch x 14-inch Horizontal Elliptical Reinforced Concrete Pipe	EA.	2.00	0.00	0.00	0.00	$1,260.00	$0.00	0%
57	Seeding, Hydraulically Applied with Mulch	ACRE	65.50	0.00	0.00	0.00	$3,000.00	$0.00	0%
58	Bermudagrass Sod	S.Y.	15,100.00	0.00	0.00	0.00	$8.05	$0.00	0%
59	Topsoil Placement from On-Site Stockpiles	C.Y.	34,000.00	0.00	3,858.00	3,858.00	$18.00	$69,444.00	11%
60	Topsoil Placement from Off-Site Sources	C.Y.	1,500.00	0.00	0.00	0.00	$40.00	$0.00	0%
61	Site Locating, Duct Tracing, and Pot Holing	L.S.	1.00	0.00	0.50	0.50	$4,030.00	$2,015.00	50%
62	Temporary Airfield Lighting During Construction	L.S.	1.00	0.20	0.14	0.34	$20,100.00	$6,834.00	34%
63	Elecrical Demolition	L.S.	1.00	0.00	0.80	0.80	$17,700.00	$14,160.00	80%
64	Installed L-806 Illuminated Supplemental Wind Cone And Foundation, in Place	EA.	2.00	0.00	0.00	0.00	$16,100.00	$0.00	0%
65	No.8 AWG, 5 kV, L-824, Type C Cable, Colored or Black, Installed in Duct Bank or Conduit	L.F.	5,500.00	0.00	0.00	0.00	$2.40	$0.00	0%
66	No.6 AWG, 5 kV, L-824, Type C Cable, Red in Color, Installed in Duct Bank or Conduit	L.F.	28,500.00	0.00	0.00	0.00	$2.95	$0.00	0%
67	No.6 AWG, Solid, Bare Copper Counterpoise Wire, Installed in turf, Including Connections/Terminations	L.F.	22,700.00	0.00	0.00	0.00	$2.70	$0.00	0%
68	2- 1/0 copper Type XXHW 600 Volt and 1- #6 Green XXHW 600 Volt Cables for New RW 14 PAPI Feed	L.F.	2,450.00	0.00	0.00	0.00	$10.80	$0.00	0%
69	2- #8 copper Type XXHW 600 Volt and 1- #10 Green XXHW 600 Volt Cables for New RW 32 PAPI Feed	L.F.	350.00	0.00	0.00	0.00	$5.40	$0.00	0%
70	Concrete Encased 1 Way 2 Inch Duct	L.F.	520.00	0.00	0.00	0.00	$21.50	$0.00	0%
71	Non-Concrete Encased 1 Way 2 Inch Duct	L.F.	20,480.00	0.00	0.00	0.00	$8.60	$0.00	0%
72	Concrete-Encased 2 Way 4 Inch Duct	L.F.	170.00	0.00	0.00	0.00	$75.20	$0.00	0%
73	Non-Concrete Encased 4 Way 4 Inch Duct	L.F.	150.00	0.00	0.00	0.00	$59.10	$0.00	0%
74	Non-Concrete Encased 2 Way 4 Inch Duct	L.F.	1,805.00	0.00	0.00	0.00	$32.20	$0.00	0%
75	Non-Concrete Encased 2 Way 2 Inch Duct for MTE Primary Cable	L.F.	2,900.00	0.00	2,900.00	2,900.00	$20.40	$59,160.00	100%
76	Non-Concrete Encased 1 Way 3 Inch Duct	L.F.	310.00	0.00	0.00	0.00	$10.80	$0.00	0%
77	Non-Concrete Encased 1 Way 4 Inch Duct	L.F.	530.00	0.00	0.00	0.00	$13.40	$0.00	0%

78	Installation of L-867B Base Cans for Runway and Taxiway Lighting	EA.	108.00	0.00	0.00	0.00	$752.00	$0.00	0%
79	Installation of L-868B Base Cans for Runway Lighting Fixtures	EA.	4.00	0.00	0.00	0.00	$967.00	$0.00	0%
80	Installation of L-867D Base Cans for Junction Can	EA.	7.00	0.00	0.00	0.00	$1,610.00	$0.00	0%
81	Installation of 30"x48"x36" Primary Pull Box	EA.	8.00	0.00	8.00	8.00	$1,880.00	$15,040.00	100%
82	4 Foot x 4 Foot x 4 Foot Utility Manhole with Square Spring Assist Lid.	EA.	8.00	0.00	0.00	0.00	$16,700.00	$0.00	0%
83	Installation of New L-861T(L) Fixture with New Fixture Plate and New L-830 Isolation Transformer on New Installed L867(B) Base Can	EA.	36.00	0.00	0.00	0.00	$806.00	$0.00	0%
84	Fixture Plate and Existing L-830 Isolation Transformer on Newly Installed L867(B) Base Can	EA.	52.00	0.00	0.00	0.00	$484.00	$0.00	0%
85	Fixture Plate and Existing L-830 Isolation Transformer on Newly Installed L867(B) Base Can	EA.	8.00	0.00	0.00	0.00	$484.00	$0.00	0%
86	Installation of Existing L-862 Fixture with Existing L-830 Isolation Transformer on New 3/4" base Plate on Newly Installed L868(B) Base Can	EA.	4.00	0.00	0.00	0.00	$645.00	$0.00	0%
87	Install of New REIL Including New Foundation, New L-849(L) REILS, New L867B Base Cans, and Supporting Conduit Per Plans	EA.	1.00	0.00	0.00	0.00	$18,800.00	$0.00	0%
88	Installation of Existing L-862E Fixture with Existing Fixture Plate and Existing L-830 Isolation Transformer on Newly Installed L867(B) Base Can in Pavement Area	EA.	8.00	0.00	0.00	0.00	$484.00	$0.00	0%
89	Install Existing L-858 (L) Distance Remaining Sign on New Foundation – 1 Module	EA.	5.00	0.00	0.00	0.00	$4,570.00	$0.00	0%
90	Install Existing L-858 (L) Direction Sign on New Foundation – 1 Module	EA.	6.00	0.00	0.00	0.00	$4,570.00	$0.00	0%
91	Install Existing L-858 (L) Directional Sign on New Foundation – 3 Module	EA.	6.00	0.00	0.00	0.00	$5,110.00	$0.00	0%
92	Installation of L-880(L) 4-Box PAPI Array	EA.	2.00	0.00	0.00	0.00	$88,700.00	$0.00	0%
93	MALSR Threshold Bar Reconstruction and New Power Feed	L.S.	1.00	0.00	0.00	0.00	$126,000.00	$0.00	0%
94	6-inch PVC Water Line, Including Fittings, Tie-ins to Exisitng Line, and Removal of Existing Line	L.F.	1,000.00	0.00	0.00	0.00	$90.00	$0.00	0%
95	Fuel Price Adjustment	Dollar	0.00	80,496.93	9,268.51	89,765.44	$1.00	$89,765.44	#DIV/0!
96	Bituminous Material Price Adjustment	Dollar	0.00	152,249.76	0.00	152,249.76	$1.00	$152,249.76	#DIV/0!
		Total Current Amount:		***$ 3,296,580.77***					

I hereby certify that the quantities and amounts herein shown are correct, to the best of my knowledge and belief, and that the work has been performed and materials used in accordance with the plans and specifications heretofore approved for this project.

Total Estimate to Date:	$5,649,196.69	34%
Previous Payments:	$2,352,615.92	
Balance No. 1:	$3,296,580.77	
Deductions:	$0.00	
Amt. due this Estimate:	$3,296,580.77	

8/7/2026

TAD Project Manager's Signature

Date Reviewed

Form Revised 10/20/2022

Consultant Payform: TDOT Review