EAST COCALICO TOWNSHIP

Lancaster County, Po	ennsylvania
RESOLUTION NO.	2013-08

A RESOLUTION OF THE BOARD OF SUPERVISORS OF EAST COCALICO TOWNSHIP APPROVING AMENDMENTS TO THE TRANSPORTATION CAPITAL IMPROVEMENTS PLAN.

WHEREAS, by Act 209 of 1990, which amended the Pennsylvania Municipalities Planning Code ("MPC") to include Article V-A, Municipal Capital Improvement, the General Assembly provided specific statutory authority for municipalities to impose transportation impact fees; and

WHEREAS, the General Assembly has amended MPC Article V-A from time to time; and

WHEREAS, in accordance with the authority granted by Act 209, as amended, and following the procedures set forth in Act 209, as amended, the Board of Supervisors of this Township appointed the East Cocalico Township Transportation Impact Fee Advisory Committee (the "Advisory Committee"), which Advisory Committee undertook the actions required by the MPC to enable the Board of Supervisors to enact an ordinance imposing transportation impact fees including, but not limited to, the adoption of the Land Use Assumptions Report, the adoption of a Transportation Capital Improvements Plan, and the adoption of a Transportation Capital Improvements Plan; and

WHEREAS, the Advisory Committee and the Board of Supervisors took all actions required by Act 209 and the Board of Supervisors enacted Ordinance No. 2011-1, the East Cocalico Township Impact Fee Ordinance, codified as Chapter 203, Transportation Impact Fees, of the Code of Ordinances on April 6, 2011; and

WHEREAS, as authorized by Act 209, the Advisory Committee has worked with the Township Transportation Engineer, Rettew Associates, Inc., to prepare an update to the Transportation Capital Improvements Plan; and

WHEREAS, the Advisory Committee has reviewed the amendments to the Transportation Capital Improvements Plan and authorized transmission of the proposed amendments to the Transportation Capital Improvements Plan set forth in this Resolution to the Board of Supervisors in accordance with MPC Section 504-A(e)(3) by its Resolution No. 2013-02; and

WHEREAS, the Board of Supervisors desires to so amend the Transportation Capital Improvements Plan.

NOW, THEREFORE, BE AND IT IS HEREBY RESOLVED by the Board of Supervisors of East Cocalico Township as follows:

<u>Section 1.</u> The foregoing background recitals are incorporated herein and constitute part of this Resolution.

Section 2. The East Cocalico Township Transportation Capital Improvements Plan, as adopted by the Board of Supervisors by Resolution No. 2011-5 on March 16, 2011, shall be amended as follows:

- A. Within Table 1, East Cocalico Impact Fee Ordinance Capital Improvement Plan Project Summary, delete the existing information relating to Project Codes identified in Exhibit "A" and insert the information relating to Project Codes attached hereto as Exhibit "A" and incorporated herein.
- B. Delete the existing information for Project Codes identified in Exhibit "B" and substitute the revised detailed description for the Project Codes attached hereto as Exhibit "B" and incorporated herein.

<u>Section 3.</u> In the event any provision, section, sentence, clause, or part of this Resolution shall be held to be invalid, illegal, or unconstitutional by a court of competent jurisdiction, such invalidity, illegality, or unconstitutionality shall not affect or impair the remaining provisions, sections, sentences, clauses, or parts of this Resolution, it being the intent of the Board of Supervisors that the remainder of the Resolution shall be and shall remain in full force and effect.

<u>Section 4.</u> This Resolution shall take effect and be in force immediately.

DULY ADOPTED this <u>7th</u> day of <u>August</u>, 2013, by the Board of Supervisors of East Cocalico Township in lawful session duly assembled.

TOWNSHIP OF EAST COCALICO Lancaster County, Pennsylvania

Noelle B. Fortna

Board of Supervisors Secretary

Douglas B. Mackley

Board of Supervisors Chairman

[TOWNSHIP SEAL]

Attest:

EXHIBIT "A"

EAST COCALICO TOWNSHIP IMPACT FEE ORDINANCE CAPITAL IMPROVEMENT PLAN PROJECTS SUMMARY TARI F 1

	TABLE 1									
Map Number	Project Code	Intersection or Roadway Segment	Improvement Project Description	Construction Year	Total Project Cost (dollars)	State/ Federal Funding (dollars)	Other Funding (dollars)	Western District Impact Fee (dollars)	Eastern District Impact Fee (dollars)	Southern District Impact Fee (dollars)
-	S01	Denver Road Bridge (T-901)	Widen to 12' lanes with 6' shoulders (upgrade to community collector)	2014	\$1,394,458.10	\$0.00	\$0.00	\$1,394,458.10	\$0.00	\$0.00
-	103	Church Street (SR 1051) & Reamstown Road (T-700)	Install a traffic signal.	2024	\$556,237.16	\$0.00	\$183,558.26	\$0.00	\$0.00	\$372,678.90
1	104A	Church Street (SR 1051) & Route 272	Construct a westbound left turn lane and right turn lane, remove/install two signal poles, curb	2019	\$859,521.90	\$0.00	\$429,760.95	\$0.00	\$0.00	\$429,760.95
1	104B	Church Street (SR 1051) & Route 272	Construct a Eastbound left turn lane and right turn lane, remove/install two signal poles, curb	2019	\$797,319.67	\$0.00	\$398,659.83	\$398,659.83	\$0.00	\$0.00
-	S05	Route 897, west of Route 272	Widen to 12' lanes with 6' shoulders.	2034	\$3,419,553.76	\$3,419,553.76	\$0.00	\$0.00	\$0.00	\$0.00
-	106	Colonel George Howard Boulevard (SR 1040) & Lesher Road (T-949)	Project not feasible- Will interfer with future interchange projects	2034	\$210,311.70	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
-	107	Colonel George Howard Boulevard (SR 1040) & Route 222 southbound Ramps	Construct a clover-leaf interchange.	2027	\$8,332,895.74	\$8,332,895.74	\$0.00	\$0.00	\$0.00	\$0.00
-	108	Colonel George Howard Boulevard (SR 1040) & Route 222 northbound Ramps	Construct a clover-leaf interchange.	2027	\$8,332,895.74	\$8,332,895.74	\$0.00	\$0.00	\$0.00	\$0.00
2	109A	Colonel George Howard Boulevard (SR 1040) & Pepperidge Farm Boulevard (T-902)	Construct a 2nd northbound left turn lane (Left-Left-Thru-Right configuration).	2019	\$188,954.04	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
2	109В	Colonel George Howard Boulevard (SR 1040) & Pepperidge Farm Boulevard (T-902)	109B Deleted- Work roled into 109A "Construct a northbound right turn lane."	2034	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
2	109C	Colonel George Howard Boulevard (SR 1040) & Pepperidge Farm Boulevard (T-902)	Construct dual southbound left turn lanes. Maintain existing SB RT Lane and Thru lane.	2019	\$551,868.90	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
2	109D	Colonel George Howard Boulevard (SR 1040) & Pepperidge Farm Boulevard (T-902)	109D Deleted- Work roled into 109C "Construct a southbound right turn lane."	2034	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
-	110	Colonel George Howard Boulevard (SR 1040) & Reamstown Road (T-700)	Install a traffic signal.	2027	\$440,885.66	\$220,442.83	\$0.00	\$0.00	\$218,238.40	\$2,204.43
3	I11A	Colonel George Howard Boulevard (SR 1040) / Denver Road (T-901) & Route 272	Construct a 2nd westbound left turn lane on Col Howard Blvd.	2027	\$401,463.59	\$401,463.59	\$0.00	\$0.00	\$0.00	\$0.00
3	I11B	Colonel George Howard Boulevard (SR 1040) / Denver Road (T-901) & Route 272	Prohibit left turns and thru movements exiting the eastbound approach. Project I30 is required prerequisite or concurrently.	2034	\$771,052.41	\$385,526.21	\$0.00	\$3,855.26	\$377,815.68	\$3,855.26
3	I11C	Colonel George Howard Boulevard (SR 1040) / Denver Road (T- 901) & Route 272	Construct a 2nd northbound right turn lane.	2029	\$130,352.11	\$65,176.06	\$0.00	\$651.76	\$63,872.53	\$651.76
3	I11D	Colonel George Howard Boulevard (SR 1040) / Denver Road (T- 901) & Route 272	Construct a 2nd westbound right turn lane.	2029	\$153,610.63	\$76,805.31	\$0.00	\$768.05	\$75,269.21	\$768.05
-	l13	Route 272 & Hill Road (T-846)	Install a traffic signal.	2016	\$293,762.52	\$0.00	\$96,941.63	\$131,869.99	\$64,950.89	\$0.00
-	114	Route 272 & Muddy Creek Road (T-816)	Install a traffic signal.	2017	\$406,410.65	\$0.00	\$406,410.65	\$0.00	\$0.00	\$0.00
-	115A	Route 272 & Route 897	Construct a 2nd northbound left turn lane on SR 272	2034	\$642,663.03	\$642,663.03	\$0.00	\$0.00	\$0.00	\$0.00
-	115B	Route 272 & Route 897	Construct a 2nd westbound left turn lane on SR 897.	2034	\$385,583.70	\$385,583.70	\$0.00	\$0.00	\$0.00	\$0.00
-	I15C	Route 272 & Route 897	Construct an eastbound right turn lane on SR 897.	2034	\$277,117.93	\$277,117.93	\$0.00	\$0.00	\$0.00	\$0.00

EAST COCALICO TOWNSHIP IMPACT FEE ORDINANCE CAPITAL IMPROVEMENT PLAN PROJECTS SUMMARY TABLE 1 **Total Project Cost** State/ Federal Other Funding Western District Eastern District **Southern District** Map Number Project Code Intersection or Roadway Segment Improvement Project Description **Construction Year** (dollars) Funding (dollars) (dollars) Impact Fee (dollars) Impact Fee (dollars) Impact Fee (dollars 118 4 Route 272 & Pepperidge Farm Driveway Realign and Signalize with Route 272 & Hill Road (T-846). 2029 \$1,621,883.32 \$0.00 \$0.00 \$0.00 \$1,621,883.32 \$0.00 Project Deleted. Not feasible- PENNDOT will not permit 5 122 Muddy Creek Road (SR 1059) & Trost Road (T-953) 2034 \$858,331.71 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 installation of All-Way Stop Control Construct additional 3rd thru lanes (triple thrus in each 2 S22 Colonel George Howard Boulevard (SR 1040) direction between Route 272 and the first Route 222 ramp). Tie 2027 \$4,645,885.90 \$3.716.708.72 \$0.00 \$0.00 \$380,962,64 \$548,214,54 into SR 222 Interchange work (IO7 and IO8). 123 Muddy Creek Road (SR 1059) & Stone Hill Road (T-862) Install all-way stop control. 2034 \$3,044.63 \$1,522.31 \$0.00 \$0.00 \$1,522.31 \$0.00 S24 Route 897, east of Route 272 Construct additional thru lanes. 2034 \$8,721,472.13 \$8,721,472.13 \$0.00 \$0.00 \$0.00 \$0.00 Stevens Road (SR 1045) & Wabash Road (T-669) / Indiantown 125 Install a traffic signal. 2024 \$526,229.06 \$0.00 \$526,229.06 \$0.00 \$0.00 \$0.00 Road (West Cocalico Township) Stevens Road (SR 1045) / Line Road (SR 1045) & Sevens Road 126 Install a traffic signal. 2024 \$526,229.06 \$0.00 \$526,229.06 \$0.00 \$0.00 \$0.00 (SR 1030) / south Main Street (West Cocalico Township) Route 272, south of Colonel George Howard Boulevard (SR S26 \$25,507,861.27 Construct additional thru lanes. 2034 \$25,507,861.27 \$0.00 \$0.00 \$0.00 \$0.00 1040) Route 272, south of Colonel George Howard Boulevard (SR S26 Construct additional thru lanes. 0 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 1040) Route 272, north of Colonel George Howard Boulevard (SR S27 2034 \$9,365,814.08 \$9,365,814.08 Construct additional thru lanes. \$0.00 \$0.00 \$0.00 \$0.00 1040) Route 272, north of Colonel George Howard Boulevard (SR S27 0 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 Construct additional thru lanes. \$0.00 1040) Church Street (SR 1051), between Route 272 & Red Run Road S28 Widen to 11' lanes with 4' shoulders. 2034 \$1,042,602.54 \$1,042,602.54 \$0.00 \$0.00 \$0.00 \$0.00 (SR 1044) Church Street (SR 1051), between Red Run Road (SR 1044) & S29 Widen to 12' lanes with 4' shoulders. 2034 \$849,743.50 \$849,743.50 \$0.00 \$0.00 \$0.00 Construct a new eastbound approach with dual left turn lanes 130 6 Route 272 & Denver Road (T-90) and a shared right turn lane. Install a traffic signal. Construct a 2034 \$1.055.896.50 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 northbound left turn lane. **Subtotal 2010 Existing** \$35,280,086 \$34,873,675 \$406,411 \$0 \$0 \$0 Subtotal 2034 Base \$28,996,293 \$27.943.835 \$1.052.458 \$0 \$0 \$0 Subtotal Developer Projects \$740.823 \$0 \$0 \$0 \$0 \$0 Subtotal PennDOT Project \$4,462,156 \$4,462,156 \$0 \$0 \$0 \$0 Subtotal 2034 Projected \$12,074,425 \$4,466,181 \$1,515,331 \$1,930,263 \$2,804,515 \$1,358,134 \$79,100 \$1,230.73 \$2,704.29 \$1,249.65 Consultant \$1,931,494 \$2,807,219 \$1,359,384 2010 Existing Mitigation Subtotal 2034 Base Mitigation 10 Percent Contingency \$193,149 \$280,722 \$135,938 Selected Project Total Fee \$2,124,643 \$3,087,941 \$1,495,322 Total of New Trip Ends Candidate Project 940 2,073 956 Developer Project Trips At Existing \$1,000 Fee (Approved but not constructed) 0 0 0 PennDOT Project Adjusted Total Fee \$2,124,643 \$3,087,941 \$1,495,322

Current Fee by Ordinance	\$1,512	\$1,507	\$1,510

940

\$2,260

2.073

\$1,490

Adjusted Total of New Trip Ends

Calculated Fee Per Trip

956

\$1,564

EXHIBIT "B"

TRANSPORTATION DISTRICT: Eastern/Western District PROJECT CODE: 113

LOCATION:

Route 272 & Hill Road (T-846)

DEFICIENCY:

The current intersection is deficient with 2010 existing traffic volumes.

PROPOSED IMPROVEMENTS:

Install a traffic signal.

ESTIMATED COST SUMMARY:

(Current Year 2010 Dollars)

Construction	187,500
Utility Relocation	0
Right-of-Way	0
Engineering	21,563
Inspection	15,000
Admin & Planning	2,813
TOTAL	\$226,875

CONSTRUCTION YEAR AND PROJECTED COST:

Construction Year	2016	Inflation Rate: 3.76%
Projected Construction Cost	\$293,763	

Projected Construction Cost

PROPOSED FUNDING:

PROJECT SCHEDULE:

				Year
State/Federal	0%	\$0	Secure Funding	2014
Other	33%	\$96,942	Acquire ROW	2015
Impact Fees	67%	\$196,821	Compete Engineering	2015
			Begin Construction	2016

TRANSPORTATION DISTRICT COST:

Western District	67%	\$131,870
Eastern District	33%	\$64,951
Southern Distict	0%	\$0

Project Number I13	Done By: BDE		Checked: I	MJR
Description	Cost	Unit	Quantity	Total
Construction Items				
Traffic Signals				
New Signal (4-way)	\$200,000.00	Each	0	\$0.00
New Signal (3-way)	\$150,000.00	Each	1	\$150,000.00
Signal Modifications	\$20,000.00	Each	0	\$0.00
Emergency Vehicle Preemption Only	\$10,000.00	Each	0	\$0.00
Pavement				
1.5" Pavement Overlay and Milling	\$7.00	Square Yard	0	\$0.00
New Pavement - Arterial Roads	\$46.00	Square Yard	0	\$0.00
New Pavement - Collector Roads	\$40.00	Square Yard	0	\$0.00
New Pavement - Local Commercial Roads	\$34.00	Square Yard	0	\$0.00
New Pavement - Local Residential Roads	\$29.00	Square Yard	0	\$0.00
4" PBD	\$7.25	Linear Foot	0	\$0.00
Excavation	Ć12.00	0.1. 1/		40.00
Excavation (Borrow)	\$12.00	Cubic Yard	0	\$0.00
Drainage Inlet/Manhole	¢2,400,00	Fl-	0	¢0.00
·	\$2,400.00 \$55.00	Each	0	\$0.00
Pipe and Trenching Culvert	\$55.00	Linear Foot		\$0.00
	\$700.00	Linear Foot	0	\$0.00
Pavement Markings 4" Pavement Markings	\$2.00	Linear Foot	0	¢0.00
8" Pavement Markings	\$8.00	Linear Foot Linear Foot	0	\$0.00 \$0.00
Miscellaneous	\$8.00	Linear Foot	U	\$0.00
Guide Rail	\$18.00	Linear Foot	0	\$0.00
Concrete Curb	\$35.00	Linear Foot	0	\$0.00
Bituminous Wedge Curb	\$7.00	Linear Foot	0	\$0.00
Other Miscellaneous	\$7.00	Lilleal Foot	U	\$0.00
Post Mounted Signs	\$200.00	Each	0	\$0.00
Other	\$200.00	Lacii	U	\$0.00
other	<u>l</u>	Cons	truction Subtotal:	\$150,000.00
Mobilization	5.0%		uction Total	\$7,500.00
Maintenance and Protection of Traffic	5.0%		uction Total	\$7,500.00
Contingency	15.0%		uction Total	\$22,500.00
			l Construction:	\$187,500.00
Utility Relocation	<u>.</u>			+ 20.7000.00
Utility Pole Relocation	\$3,300.00	Each	0	\$0.00
Electric Service	\$2,000.00	Each	0	\$0.00
Water/ Gas Valves	\$250.00	Each	0	\$0.00
Fire Hydrant Relocation	\$1,000.00	Each	0	\$0.00
High Tension Electric Poles	\$130,000.00	Each	0	\$0.00
Sanitary Manhole	\$2,400.00	Each	0	\$0.00
Other	\$5,000.00	Project	0	\$0.00
-			Utility Subtotal:	\$0.00
Contingency	15.0%	Of Utilit	y Subtotal	\$0.00
		Total Util	ity Relocation:	\$0.00
Right-of-Way	_			
Right-of-Way - Urban	\$150,000.00	Acres	0	\$0.00
Right-of-Way - Rural	\$120,000.00	Acres	0	\$0.00
Construction Easement (75% of ROW)		Acres	0	\$0.00
Structures	\$180,000.00	Each	0	\$0.00
			of-Way Subtotal:	\$0.00
Contingency	15.0%		Way Subtotal	\$0.00
		Total Right-of-Way:		\$0.00
Engineering	11.5%		uction Total	\$21,562.50
Construction Inspection	8.0%		uction Total	\$15,000.00
Administration and Planning	1.5%		uction Total	\$2,812.50
		Tota	al Project Cost:	\$226,875.00

PROJECT CODE: 114 TRANSPORTATION DISTRICT: Eastern/Western District

LOCATION:

Route 272 & Muddy Creek Road (T-816)

DEFICIENCY:

The current intersection is deficient with 2010 existing traffic volumes.

PROPOSED IMPROVEMENTS:

Install a traffic signal.

ESTIMATED COST SUMMARY:

(Current Year 2010 Dollars)

Construction	250,000
Utility Relocation	0
Right-of-Way	0
Engineering	28,750
Inspection	20,000
Admin & Planning	3,750
TOTAL	\$302,500

CONSTRUCTION YEAR AND PROJECTED COST:

Construction Year	2017	Inflation Rate: 3.76%
Projected Construction Cost	\$406,411	

PROPOSED FUNDING:

PROJECT SCHEDULE:

				Year
State/Federal	0%	\$0	Secure Funding	2015
Other	100.0%	\$406,411	Acquire ROW	2016
Impact Fees	0.0%	\$0	Compete Engineering	2016
			Begin Construction	2017

TRANSPORTATION DISTRICT COST:

Western District	62.5%	\$0
Eastern District	37.5%	\$0
Southern Distict	0.0%	\$0

Project Number I14	Done By: BDE		Checked:	MJR
Description	Cost	Unit	Quantity	Total
Construction Items				
Traffic Signals				
New Signal (4-way)	\$200,000.00	Each	1	\$200,000.00
New Signal (3-way)	\$150,000.00	Each	0	\$0.00
Signal Modifications	\$20,000.00	Each	0	\$0.00
Emergency Vehicle Preemption Only	\$10,000.00	Each	0	\$0.00
Pavement				40.00
1.5" Pavement Overlay and Milling	\$7.00	Square Yard	0	\$0.00
New Pavement - Arterial Roads	\$46.00	Square Yard	0	\$0.00
New Pavement - Collector Roads New Pavement - Local Commercial Roads	\$40.00 \$34.00	Square Yard	0	\$0.00 \$0.00
New Pavement - Local Residential Roads	\$29.00	Square Yard Square Yard	0	\$0.00
4" PBD	\$7.25	Linear Foot	0	\$0.00
Excavation	Ϋ1.23	Linear 100t	٥	٥٥.٥٥
Excavation (Borrow)	\$12.00	Cubic Yard	0	\$0.00
Drainage	7==:00	Cable Fara	<u> </u>	φο.σο
Inlet/Manhole	\$2,400.00	Each	0	\$0.00
Pipe and Trenching	\$55.00	Linear Foot	0	\$0.00
Culvert	\$700.00	Linear Foot	0	\$0.00
Pavement Markings				
4" Pavement Markings	\$2.00	Linear Foot	0	\$0.00
8" Pavement Markings	\$8.00	Linear Foot	0	\$0.00
Miscellaneous				
Guide Rail	\$18.00	Linear Foot	0	\$0.00
Concrete Curb	\$35.00	Linear Foot	0	\$0.00
Bituminous Wedge Curb	\$7.00	Linear Foot	0	\$0.00
Other Miscellaneous	1 4000 001		T _T	
Post Mounted Signs	\$200.00	Each	0	\$0.00
Other		Cons	truction Subtotal:	\$0.00 \$200,000.00
Mobilization	5.0%		uction Total	\$10,000.00
Maintenance and Protection of Traffic	5.0%		uction Total	\$10,000.00
Contingency	15.0%		uction Total	\$30,000.00
			l Construction:	\$250,000.00
Utility Relocation				Ψ=00/000.00
Utility Pole Relocation	\$3,300.00	Each	0	\$0.00
Electric Service	\$2,000.00	Each	0	\$0.00
Water/ Gas Valves	\$250.00	Each	0	\$0.00
Fire Hydrant Relocation	\$1,000.00	Each	0	\$0.00
High Tension Electric Poles	\$130,000.00	Each	0	\$0.00
Sanitary Manhole	\$2,400.00	Each	0	\$0.00
Other	\$5,000.00	Project	0	\$0.00
- ···	45.00/	0(1111111	Utility Subtotal:	\$0.00
Contingency	15.0%		y Subtotal lity Relocation:	\$0.00
Right-of-Way	Į.	TOTAL OTL	ity Kelocation:	\$0.00
Right-of-Way - Urban	\$150,000.00	Acres	0	\$0.00
Right-of-Way - Rural	\$120,000.00	Acres	0	\$0.00
Construction Easement (75% of ROW)	Ψ==0,000.00	Acres	0	\$0.00
Structures	\$180,000.00	Each	0	\$0.00
			-of-Way Subtotal:	\$0.00
Contingency	15.0%		-Way Subtotal	\$0.00
			Right-of-Way:	\$0.00
Engineering	11.5%		uction Total	\$28,750.00
Construction Inspection	8.0%	Of Constr	uction Total	\$20,000.00
Administration and Planning	1.5%		uction Total	\$3,750.00
		Tota	al Project Cost:	\$302,500.00

PROJECT CODE: S26 TRANSPORTATION DISTRICT: Western/Southern District

LOCATION:

Route 272, south of Colonel George Howard Boulevard (SR 1040)

DEFICIENCY:

The current roadway segment is deficient with 2010 existing traffic volumes

PROPOSED IMPROVEMENTS:

Construct additional thru lanes.

ESTIMATED COST SUMMARY:

(Current Year 2010 Dollars)

Construction	5,688,353
Utility Relocation	519,340
Right-of-Way	2,735,116
Engineering	654,161
Inspection	455,068
Admin & Planning	85,325
TOTAL	\$10,137,362

CONSTRUCTION YEAR AND PROJECTED COST:

Construction Year 2034 Inflation Rate: 3.76%

Projected Construction Cost \$25,507,861

PROPOSED FUNDING: PROJECT SCHEDULE:

	_			Year
State/Federal	100%	\$25,507,861	Secure Funding	2032
Other	0%	\$0	Acquire ROW	2033
Impact Fees	0%	\$0	Compete Engineering	2033
			Begin Construction	2034

REMARKS:

TRANSPORTATION DISTRICT COST:

Western District	50%	\$0
Eastern District	0%	\$0
Southern Distict	50%	\$0

Project Number S26	Done By: BDE		Checked:	MJR
Description	Cost	Unit	Quantity	Total
Construction Items				
Traffic Signals				
New Signal (4-way)	\$200,000.00	Each	4	\$800,000.00
New Signal (3-way)	\$150,000.00	Each	0	\$0.00
Signal Modifications	\$20,000.00	Each	0	\$0.00
Emergency Vehicle Preemption Only	\$10,000.00	Each	0	\$0.00
Pavement			T	
1.5" Pavement Overlay and Milling	\$7.00	Square Yard	0	\$0.00
New Pavement - Arterial Roads	\$46.00	Square Yard	50667	\$2,330,682.00
New Pavement - Collector Roads	\$40.00	Square Yard	0	\$0.00
New Pavement - Local Commercial Roads	\$34.00	Square Yard	0	\$0.00
New Pavement - Local Residential Roads 4" PBD	\$29.00	Square Yard	0	\$0.00
	\$7.25	Linear Foot	38000	\$275,500.00
Excavation (Borrow)	\$12.00	Cubic Vard	0	¢0.00
· · ·	\$12.00	Cubic Yard	U	\$0.00
Drainage Inlet/Manhole	\$2,400.00	Each	7	\$16,800.00
Pipe and Trenching	\$55.00	Linear Foot	0	\$10,800.00
Culvert	\$700.00	Linear Foot	24	\$16,800.00
Pavement Markings	\$700.00	Linear 100t	24	\$10,800.00
4" Pavement Markings	\$2.00	Linear Foot	76000	\$152,000.00
8" Pavement Markings	\$8.00	Linear Foot	0	\$0.00
Miscellaneous	φο.σσ	Linear 1 oot	<u> </u>	φο.σσ
Guide Rail	\$18.00	Linear Foot	1800	\$32,400.00
Concrete Curb	\$35.00	Linear Foot	0	\$0.00
Bituminous Wedge Curb	\$7.00	Linear Foot	0	\$0.00
Other Miscellaneous			•	
Post Mounted Signs	\$200.00	Each	128	\$25,600.00
Widen Bridge Structure	\$3,850.00	SY	234	\$900,900.00
		Cons	truction Subtotal:	\$4,550,682.00
Mobilization	5.0%	Of Constr	uction Total	\$227,534.10
Maintenance and Protection of Traffic	5.0%	Of Constr	uction Total	\$227,534.10
Contingency	15.0%		uction Total	\$682,602.30
		Tota	I Construction:	\$5,688,352.50
Utility Relocation				
Utility Pole Relocation	\$3,300.00	Each	122	\$402,600.00
Electric Service	\$2,000.00	Each	0	7
Water/ Gas Valves	\$250.00	Each	0	\$0.00
Fire Hydrant Relocation	\$1,000.00	Each	19	\$19,000.00
High Tension Electric Poles	\$130,000.00	Each	0	\$0.00
Sanitary Manhole	\$2,400.00	Each	0	\$0.00
Other	\$5,000.00	Project	6	\$30,000.00
Cantingana	15 00/	Of LIHILI	Utility Subtotal: y Subtotal	\$451,600.00
Contingency	15.0%		lity Relocation:	\$67,740.00 \$519,340.00
Right-of-Way	L	TOTAL OTL	ity Kelocation.	\$519,540.00
Right-of-Way - Urban	\$150,000.00	Acres	0	\$0.00
Right-of-Way - Rural	\$120,000.00	Acres	10.46838843	\$1,256,206.61
Construction Easement (75% of ROW)	Ç120,000.00	Acres	0.40838843	\$942,154.96
Structures	\$180,000.00	Each	1	\$180,000.00
	T = 5,555.50		of-Way Subtotal:	\$2,378,361.57
		Right		
Contingency	15.0%			
Contingency	15.0%	Of Right-of-	-Way Subtotal	\$356,754.24
Contingency Engineering	15.0% 11.5%	Of Right-of- Tota		
		Of Right-of- Tota Of Constr	Way Subtotal Right-of-Way:	\$356,754.24 \$2,735,115.81
Engineering	11.5%	Of Right-of- Tota Of Constr Of Constr	Way Subtotal Right-of-Way: uction Total	\$356,754.24 \$2,735,115.81 \$654,160.54

PROJECT CODE: S27 TRANSPORTATION DISTRICT: Eastern/Western District

LOCATION:

Route 272, north of Colonel George Howard Boulevard (SR 1040)

DEFICIENCY:

The current roadway segment is deficient with 2010 existing traffic volumes

PROPOSED IMPROVEMENTS:

Construct additional thru lanes.

ESTIMATED COST SUMMARY:

(Current Year 2010 Dollars)

Construction	2,034,898
Utility Relocation	195,500
Right-of-Way	1,064,446
Engineering	234,013
Inspection	162,792
Admin & Planning	30,523
TOTAL	\$3,722,172

CONSTRUCTION YEAR AND PROJECTED COST:

Construction Year 2034 Inflation Rate: 3.76%

Projected Construction Cost \$9,365,83

PROPOSED FUNDING: PROJECT SCHEDULE:

		_		Year
State/Federal	100%	\$9,365,814	Secure Funding	2032
Other	0%	\$0	Acquire ROW	2033
Impact Fees	0%	\$0	Compete Engineering	2033
		_	Begin Construction	2034

REMARKS:

TRANSPORTATION DISTRICT COST:

Western District	50%	\$0
Eastern District	50%	\$0
Southern Distict	0%	\$0

Project Number S27	Done By: BDE		Checked:	MJR
Description	Cost	Unit	Quantity	Total
Construction Items			-	
Traffic Signals				
New Signal (4-way)	\$200,000.00	Each	2	\$400,000.00
New Signal (3-way)	\$150,000.00	Each	0	\$0.00
Signal Modifications	\$20,000.00	Each	0	\$0.00
Emergency Vehicle Preemption Only	\$10,000.00	Each	0	\$0.00
Pavement				
1.5" Pavement Overlay and Milling	\$7.00	Square Yard	0	\$0.00
New Pavement - Arterial Roads	\$46.00	Square Yard	21333	\$981,318.00
New Pavement - Collector Roads	\$40.00	Square Yard	0	\$0.00
New Pavement - Local Commercial Roads	\$34.00	Square Yard	0	\$0.00
New Pavement - Local Residential Roads	\$29.00	Square Yard	0	\$0.00
4" PBD	\$7.25	Linear Foot	16000	\$116,000.00
Excavation	1		, ,	
Excavation (Borrow)	\$12.00	Cubic Yard	0	\$0.00
Drainage	1		1	
Inlet/Manhole	\$2,400.00	Each	7	\$16,800.00
Pipe and Trenching	\$55.00	Linear Foot	0	\$0.00
Culvert	\$700.00	Linear Foot	0	\$0.00
Pavement Markings	1 40.00			40.000.00
4" Pavement Markings	\$2.00	Linear Foot	32000	\$64,000.00
8" Pavement Markings	\$8.00	Linear Foot	0	\$0.00
Miscellaneous	¢10.00	Linna Frank	1000	¢24.200.00
Guide Rail	\$18.00	Linear Foot	1900	\$34,200.00
Concrete Curb	\$35.00	Linear Foot	0	\$0.00
Bituminous Wedge Curb	\$7.00	Linear Foot	0	\$0.00
Other Miscellaneous Post Mounted Signs	\$200.00	Гась	70	Ć1F C00 00
Post Mounted Signs	\$200.00	Each	78	\$15,600.00 \$0.00
		Cons	truction Subtotal:	\$1,627,918.00
Mobilization	5.0%		uction Total	\$81,395.90
Maintenance and Protection of Traffic	5.0%		uction Total	\$81,395.90
Contingency	15.0%		uction Total	\$244,187.70
Contingency	15.070		l Construction:	\$2,034,897.50
Utility Relocation	<u>I</u>	1014	i construction.	72,03 4 ,037.30
Utility Pole Relocation	\$3,300.00	Each	50	\$165,000.00
Electric Service	\$2,000.00	Each	0	\$0.00
Water/ Gas Valves	\$250.00	Each	0	\$0.00
Fire Hydrant Relocation	\$1,000.00	Each	5	\$5,000.00
High Tension Electric Poles	\$130,000.00	Each	0	\$0.00
Sanitary Manhole	\$2,400.00	Each	0	\$0.00
Other	\$5,000.00	Project	0	\$0.00
		į	Utility Subtotal:	\$170,000.00
Contingency	15.0%	Of Utilit	y Subtotal	\$25,500.00
		Total Util	lity Relocation:	\$195,500.00
Right-of-Way	•			
Right-of-Way - Urban	\$150,000.00	Acres	0	\$0.00
Right-of-Way - Rural	\$120,000.00	Acres	4.407644628	\$528,917.36
Construction Easement (75% of ROW)		Acres	0	\$396,688.02
Structures	\$180,000.00	Each	0	\$0.00
			-of-Way Subtotal:	\$925,605.37
Contingency	15.0%		-Way Subtotal	\$138,840.81
			Right-of-Way:	\$1,064,446.18
Engineering	11.5%		uction Total	\$234,013.21
Construction Inspection	8.0%		uction Total	\$162,791.80
Administration and Planning	1.5%		uction Total	\$30,523.46
		Tota	al Project Cost:	\$3,722,172.15

PROJECT CODE: 106 TRANSPORTATION DISTRICT: Eastern/Southern District

LOCATION:

Colonel George Howard Boulevard (SR 1040) & Lesher Road (T-949)

DEFICIENCY:

The current intersection geometry is deficient with 2034 base traffic volumes.

PROPOSED IMPROVEMENTS:

Project not feasible- Will interfer with future interchange projects Channelize the southbound right turn movement.

ESTIMATED COST SUMMARY:

(Current Year 2010 Dollars)

Construction	41,571
Utility Relocation	0
Right-of-Way	33,281
Engineering	4,781
Inspection	3,326
Admin & Planning	624
TOTAL	\$83,582

CONSTRUCTION YEAR AND PROJECTED COST:

Construction Year	2034	Inflation Rate: 3.76%
Projected Construction Cost	\$210,312	

PROPOSED FUNDING: PROJECT SCHEDULE:

	_			Year
State/Federal	0%	\$0	Secure Funding	2032
Other	0%	\$0	Acquire ROW	2033
Impact Fees	0%	\$0	Compete Engineering	2033
			Begin Construction	2034

REMARKS:

TRANSPORTATION DISTRICT COST:

Western District	0%	\$0
Eastern District	50%	\$0
Southern Distict	50%	\$0

Project Number 106	Done By: BDE		Checked: M.	JR
Description	Cost	Unit	Quantity	Total
Construction Items				
Traffic Signals				
New Signal (4-way)	\$200,000.00	Each	0	\$0.00
New Signal (3-way)	\$150,000.00	Each	0	\$0.00
Signal Modifications	\$20,000.00	Each	0	\$0.00
Emergency Vehicle Preemption Only	\$10,000.00	Each	0	\$0.00
Pavement			l al	40.00
1.5" Pavement Overlay and Milling New Pavement - Arterial Roads	\$7.00 \$46.00	Square Yard	0 467	\$0.00
New Pavement - Collector Roads	\$40.00	Square Yard Square Yard	0	\$21,482.00 \$0.00
New Pavement - Local Commercial Roads	\$34.00	Square Yard	0	\$0.00
New Pavement - Local Residential Roads	\$29.00	Square Yard	200	\$5,800.00
4" PBD	\$7.25	Linear Foot	0	\$0.00
Excavation	ψ7.23	Emedi 100t	<u> </u>	\$0.00
Excavation (Borrow)	\$12.00	Cubic Yard	0	\$0.00
Drainage	, , ,		<u> </u>	Ψ0.00
Inlet/Manhole	\$2,400.00	Each	0	\$0.00
Pipe and Trenching	\$55.00	Linear Foot	0	\$0.00
Culvert	\$700.00	Linear Foot	0	\$0.00
Pavement Markings				
4" Pavement Markings	\$2.00	Linear Foot	0	\$0.00
8" Pavement Markings	\$8.00	Linear Foot	0	\$0.00
Miscellaneous				
Guide Rail	\$18.00	Linear Foot	0	\$0.00
Concrete Curb	\$35.00	Linear Foot	125	\$4,375.00
Bituminous Wedge Curb	\$7.00	Linear Foot	0	\$0.00
Other Miscellaneous	1		ı	
Post Mounted Signs	\$200.00	Each	8	\$1,600.00
				\$0.00
A. 1.11	F 00/		truction Subtotal:	\$33,257.00
Mobilization	5.0% 5.0%		uction Total	\$1,662.85
Maintenance and Protection of Traffic			uction Total	\$1,662.85
Contingency	15.0%	15.0% Of Construction Total Total Construction:		\$4,988.55 \$41,571.25
Utility Relocation		1014	i Construction.	341,571.25
Utility Pole Relocation	\$3,300.00	Each	0	\$0.00
Electric Service	\$2,000.00	Each	0	\$0.00
Water/ Gas Valves	\$250.00	Each	0	\$0.00
Fire Hydrant Relocation	\$1,000.00	Each	0	\$0.00
High Tension Electric Poles	\$130,000.00	Each	0	\$0.00
Sanitary Manhole	\$2,400.00	Each	0	\$0.00
Other	\$5,000.00	Project	0	\$0.00
		j	Utility Subtotal:	\$0.00
Contingency	15.0%	Of Utilit	y Subtotal	\$0.00
		Total Uti	lity Relocation:	\$0.00
Right-of-Way				
Right-of-Way - Urban	\$150,000.00	Acres	0	\$0.00
Right-of-Way - Rural	\$120,000.00	Acres	0.137809917	\$16,537.19
Construction Easement (75% of ROW)	4	Acres	0	\$12,402.89
Structures	\$180,000.00	Each	0	\$0.00
	4= 51/1		-of-Way Subtotal:	\$28,940.08
Contingency	15.0%		Way Subtotal	\$4,341.01
Fresholder	44 504		Right-of-Way:	\$33,281.09
Engineering	11.5%		uction Total	\$4,780.69
Construction Inspection	8.0%		uction Total	\$3,325.70
Administration and Planning	1.5%		uction Total	\$623.57
	<u> </u>	100	al Project Cost:	\$83,582.31

PROJECT CODE: 107 TRANSPORTATION DISTRICT: Eastern/Southern District

LOCATION:

Colonel George Howard Boulevard (SR 1040) & Route 222 southbound Ramps

DEFICIENCY:

The current intersection geometry is deficient with 2034 base traffic volumes.

PROPOSED IMPROVEMENTS:

Construct a clover-leaf interchange.

ESTIMATED COST SUMMARY:

(Current Year 2010 Dollars)

Construction	1,234,313
Utility Relocation	17,250
Right-of-Way	2,777,250
Engineering	141,946
Inspection	98,745
Admin & Planning	18,515
TOTAL	\$4,288,018

CONSTRUCTION YEAR AND PROJECTED COST:

Construction Year 2027 Inflation Rate: 3.76%

Projected Construction Cost \$8,332,89

PROPOSED FUNDING: PROJECT SCHEDULE:

		<u></u>		i eai
State/Federal	100%	\$8,332,896	Secure Funding	2025
Other	0%	\$0	Acquire ROW	2026
Impact Fees	0%	\$0	Compete Engineering	2026
			Begin Construction	2027

REMARKS:

TRANSPORTATION DISTRICT COST:

Western District	0%	\$0
Eastern District	50%	\$0
Southern Distict	50%	\$0

Project Number 107	Done By: BDE		Checked:	MJR
Description	Cost	Unit	Quantity	Total
Construction Items				
Traffic Signals				
New Signal (4-way)	\$200,000.00	Each	0	\$0.00
New Signal (3-way)	\$150,000.00	Each	1	\$150,000.00
Signal Modifications	\$20,000.00	Each	0	\$0.00
Emergency Vehicle Preemption Only	\$10,000.00	Each	0	\$0.00
Pavement	1 4-00		- I	
1.5" Pavement Overlay and Milling	\$7.00	Square Yard	0	\$0.00
New Pavement - Arterial Roads	\$46.00	Square Yard	15000	\$690,000.00
New Pavement - Collector Roads	\$40.00	Square Yard	0	\$0.00
New Pavement - Local Commercial Roads	\$34.00	Square Yard	0	\$0.00
New Pavement - Local Residential Roads 4" PBD	\$29.00 \$7.25	Square Yard	0	\$0.00
	\$7.25	Linear Foot	5000	\$36,250.00
Excavation Excavation (Borrow)	\$12.00	Cubic Yard	0	¢0.00
·	\$12.00	Cubic Yaru	U	\$0.00
Drainage Inlet/Manhole	\$2,400.00	Each	0	\$0.00
Pipe and Trenching	\$55.00	Linear Foot	0	\$0.00
Culvert	\$700.00	Linear Foot	0	\$0.00
Pavement Markings	\$700.00	Lilleal Foot	ı vı	٥٠.٥٥
4" Pavement Markings	\$2.00	Linear Foot	10000	\$20,000.00
8" Pavement Markings	\$8.00	Linear Foot	0	\$0.00
Miscellaneous	, γο.ου	Emcarroot	ı	70.00
Guide Rail	\$18.00	Linear Foot	5000	\$90,000.00
Concrete Curb	\$35.00	Linear Foot	0	\$0.00
Bituminous Wedge Curb	\$7.00	Linear Foot	0	\$0.00
Other Miscellaneous	71.00	Linear Foot	ŭ j	ψο.σσ
Post Mounted Signs	\$200.00	Each	6	\$1,200.00
Ŭ	·			\$0.00
	L	Cons	truction Subtotal:	\$987,450.00
Mobilization	5.0%	Of Constr	uction Total	\$49,372.50
Maintenance and Protection of Traffic	5.0%	Of Constr	uction Total	\$49,372.50
Contingency	15.0%	Of Constr	uction Total	\$148,117.50
		Tota	l Construction:	\$1,234,312.50
Utility Relocation				
Utility Pole Relocation	\$3,300.00	Each	0	\$0.00
Electric Service	\$2,000.00	Each	0	\$0.00
Water/ Gas Valves	\$250.00	Each	0	\$0.00
Fire Hydrant Relocation	\$1,000.00	Each	0	\$0.00
High Tension Electric Poles	\$130,000.00	Each	0	\$0.00
Sanitary Manhole	\$2,400.00	Each	0	\$0.00
Street Lights	\$5,000.00	Project	3	\$15,000.00
			Utility Subtotal:	\$15,000.00
Contingency	15.0%		y Subtotal	\$2,250.00
		Total Uti	lity Relocation:	\$17,250.00
Right-of-Way			1	
Right-of-Way - Urban	\$150,000.00	Acres	0	\$0.00
Right-of-Way - Rural	\$120,000.00	Acres	11.5	\$1,380,000.00
Construction Easement (75% of ROW)	¢400.000.00	Acres	0	\$1,035,000.00
Structures	\$180,000.00	Each	of Way Subtataly	\$0.00
Coulting	45.00/		-of-Way Subtotal:	\$2,415,000.00
Contingency	15.0%		-Way Subtotal	\$362,250.00
Fusingsuing	44 50/		Right-of-Way:	\$2,777,250.00
Engineering	11.5%		uction Total	\$141,945.94
Construction Inspection	8.0% 1.5%		uction Total	\$98,745.00
Administration and Planning	1.5%		uction Total	\$18,514.69
	ļ	101	al Project Cost:	\$4,288,018.13

PROJECT CODE: 108 TRANSPORTATION DISTRICT: Eastern/Southern District

LOCATION:

Colonel George Howard Boulevard (SR 1040) & Route 222 northbound Ramps

DEFICIENCY:

The current intersection geometry is deficient with 2034 base traffic volumes.

PROPOSED IMPROVEMENTS:

Construct a clover-leaf interchange.

ESTIMATED COST SUMMARY:

(Current Year 2010 Dollars)

Construction	1,234,313
Utility Relocation	17,250
Right-of-Way	2,777,250
Engineering	141,946
Inspection	98,745
Admin & Planning	18,515
TOTAL	\$4,288,018

CONSTRUCTION YEAR AND PROJECTED COST:

Construction Year 2027 Inflation Rate: 3.76%

Projected Construction Cost \$8,332,89

PROPOSED FUNDING: PROJECT SCHEDULE:

		<u></u>		i eai
State/Federal	100%	\$8,332,896	Secure Funding	2025
Other	0%	\$0	Acquire ROW	2026
Impact Fees	0%	\$0	Compete Engineering	2026
			Begin Construction	2027

TRANSPORTATION DISTRICT COST:

Western District	0%	\$0
Eastern District	50%	\$0
Southern Distict	50%	\$0

Project Number 108	Done By: BDE		Checked:	MJR
Description	Cost	Unit	Quantity	Total
Construction Items			-	
Traffic Signals				
New Signal (4-way)	\$200,000.00	Each	0	\$0.00
New Signal (3-way)	\$150,000.00	Each	1	\$150,000.00
Signal Modifications	\$20,000.00	Each	0	\$0.00
Emergency Vehicle Preemption Only	\$10,000.00	Each	0	\$0.00
Pave <u>ment</u>				
1.5" Pavement Overlay and Milling	\$7.00	Square Yard	0	\$0.00
New Pavement - Arterial Roads	\$46.00	Square Yard	15000	\$690,000.00
New Pavement - Collector Roads	\$40.00	Square Yard	0	\$0.00
New Pavement - Local Commercial Roads	\$34.00	Square Yard	0	\$0.00
New Pavement - Local Residential Roads	\$29.00	Square Yard	0	\$0.00
4" PBD	\$7.25	Linear Foot	5000	\$36,250.00
Excavation				
Excavation (Borrow)	\$12.00	Cubic Yard	0	\$0.00
Drainage				
Inlet/Manhole	\$2,400.00	Each	0	\$0.00
Pipe and Trenching	\$55.00	Linear Foot	0	\$0.00
Culvert	\$700.00	Linear Foot	0	\$0.00
Pavement Markings				
4" Pavement Markings	\$2.00	Linear Foot	10000	\$20,000.00
8" Pavement Markings	\$8.00	Linear Foot	0	\$0.00
Miscellaneous			<u>. </u>	<u> </u>
Guide Rail	\$18.00	Linear Foot	5000	\$90,000.00
Concrete Curb	\$35.00	Linear Foot	0	\$0.00
Bituminous Wedge Curb	\$7.00	Linear Foot	0	\$0.00
Other Miscellaneous				70.00
Post Mounted Signs	\$200.00	Each	6	\$1,200.00
		200	<u> </u>	\$0.00
		Cons	truction Subtotal:	\$987,450.00
Mobilization	5.0%		uction Total	\$49,372.50
Maintenance and Protection of Traffic	5.0%		uction Total	\$49,372.50
Contingency	15.0%		uction Total	\$148,117.50
Contingency	25.575		I Construction:	\$1,234,312.50
Utility Relocation	L	10ta	r construction.	71,23 4 ,312.30
Utility Pole Relocation	\$3,300.00	Each	0	\$0.00
Electric Service	\$2,000.00	Each	0	\$0.00
Water/ Gas Valves	\$250.00	Each	0	\$0.00
Fire Hydrant Relocation	\$1,000.00	Each	0	\$0.00
High Tension Electric Poles	\$130,000.00	Each	0	\$0.00
Sanitary Manhole	\$2,400.00	Each	0	\$0.00
Street Lights	\$5,000.00	Project	3	\$15,000.00
Street Lights	\$3,000.00	FTOJECT	Utility Subtotal:	\$15,000.00
Contingency	15.0%	Of Litilit	y Subtotal	\$2,250.00
Contingency	13.076		lity Relocation:	\$17,250.00
Right-of-Way	Į.	Total Oth	ity Reiocation.	\$17,230.00
Right-of-Way - Urban	\$150,000.00	Acres	0	\$0.00
Right-of-Way - Rural	\$120,000.00	Acres	11.5	\$1,380,000.00
Construction Easement (75% of ROW)	7120,000.00		0	\$1,035,000.00
Structures	\$180,000.00	Acres	0	\$1,035,000.00
Structures	\$100,000.00	Each Right	U -of-Way Subtotal:	
Contingona	45.00/			\$2,415,000.00
Contingency	15.0%		Way Subtotal	\$362,250.00
Frankrick salters	44 50/		Right-of-Way:	\$2,777,250.00
Engineering	11.5%		uction Total	\$141,945.94
Construction Inspection	8.0%		uction Total	\$98,745.00
Administration and Planning	1.5%		uction Total	\$18,514.69
	ļ	Tota	al Project Cost:	\$4,288,018.13

PROJECT CODE: I11A TRANSPORTATION DISTRICT: Eastern/Western/Southern District

LOCATION:

Colonel George Howard Boulevard (SR 1040) / Denver Road (T-901) & Route 272

DEFICIENCY:

The current intersection geometry is deficient with 2034 base traffic volumes.

PROPOSED IMPROVEMENTS:

Construct a 2nd westbound left turn lane on Col Howard Blvd.

Tie into IO7 & IO8 SR222 Interchange Project and S22 Col. Howard Blvd. widening project

ESTIMATED COST SUMMARY:

(Current Year 2010 Dollars)

Construction	165,983
Utility Relocation	5,750
Right-of-Way	0
Engineering	19,088
Inspection	13,279
Admin & Planning	2,490
TOTAL	\$206,589

CONSTRUCTION YEAR AND PROJECTED COST:

Construction Year	2027	Inflation Rate: 3.76%
Projected Construction Cost	\$401,464	

PROPOSED FUNDING:

				Year
State/Federal	100%	\$401,464	Secure Funding	2025
Other	0%	\$0	Acquire ROW	2026
Impact Fees	0%	\$0	Compete Engineering	2026
			Begin Construction	2027

PROJECT SCHEDULE:

DEMADEC.

TRANSPORTATION DISTRICT COST:

			KEIVIAKKS:
Western District	33%	\$0	PENNDOT Project
Eastern District	33%	\$0	
Southern Distict	34%	\$0	

Project Number I11A	Done By: BDE		Checked: I	MJR
Description	Cost	Unit	Quantity	Total
Construction Items				
Traffic Signals				
New Signal (4-way)	\$200,000.00	Each	0	\$0.00
New Signal (3-way)	\$150,000.00	Each	0	\$0.00
Signal Modifications	\$20,000.00	Each	2	\$40,000.00
Emergency Vehicle Preemption Only	\$10,000.00	Each	0	\$0.00
Pavement				
1.5" Pavement Overlay and Milling	\$7.00	Square Yard	0	\$0.00
New Pavement - Arterial Roads- Concrete	\$75.00	Square Yard	533	\$39,975.00
New Pavement - Collector Roads	\$40.00	Square Yard	0	\$0.00
New Pavement - Local Commercial Roads	\$34.00	Square Yard	0	\$0.00
New Pavement - Local Residential Roads	\$29.00	Square Yard	0	\$0.00
4" PBD	\$7.25	Linear Foot	600	\$4,350.00
Excavation	1 440.00			4
Excavation (Borrow)	\$12.00	Cubic Yard	0	\$0.00
Drainage				44.000.00
Inlet/Manhole	\$2,400.00	Each	2	\$4,800.00
Pipe and Trenching	\$55.00	Linear Foot	100	\$5,500.00
Culvert	\$700.00	Linear Foot	0	\$0.00
Pavement Markings	1 62.00		2500	4= 200 00
4" Pavement Markings	\$2.00	Linear Foot	2600	\$5,200.00
8" Pavement Markings	\$8.00	Linear Foot	0	\$0.00
Miscellaneous	Ć40.00			¢0.00
Guide Rail	\$18.00	Linear Foot	0	\$0.00
Concrete Curb	\$35.00	Linear Foot	500	\$17,500.00
Bituminous Wedge Curb	\$7.00	Linear Foot	0	\$0.00
Other Miscellaneous	¢200 00 l		40	ć2 000 00
Post Mounted Signs	\$200.00	Each	10	\$2,000.00
Partial Removal of Island	\$25.00	SY	145	\$3,625.00
8.41.11:	F 00/		truction Subtotal:	\$122,950.00
Mobilization	5.0% 5.0%		uction Total uction Total	\$6,147.50
Maintenance and Protection of Traffic	25.0%		uction Total	\$6,147.50 \$30,737.50
Contingency	23.0%		l Construction:	\$165,982.50
Utility Relocation	L	TOLA	i Construction:	\$105,982.50
Utility Pole Relocation	\$3,300.00	Each	0	\$0.00
Electric Service	\$2,000.00		0	\$0.00
Water/ Gas Valves	\$250.00	Each	0	,
Fire Hydrant Relocation	\$1,000.00	Each Each	0	\$0.00 \$0.00
High Tension Electric Poles	\$130,000.00	Each	0	\$0.00
Sanitary Manhole	\$2,400.00	Each	0	\$0.00
Other	\$5,000.00	Project	1	\$5,000.00
Other	۶۵,000.00	Froject	Utility Subtotal:	\$5,000.00
Contingency	15.0%	Of Litilit	y Subtotal	\$750.00
contingency	13.070		ity Relocation:	\$5,750.00
Right-of-Way	L	Total Oth	ity itclocation.	75,750.00
2027	\$150,000.00	Acres	0	\$0.00
Right-of-Way - Rural	\$120,000.00	Acres	0	\$0.00
Construction Easement (75% of ROW)	ψ120)000.00	Acres	0	\$0.00
Structures	\$180,000.00	Each	0	\$0.00
	, 23,222,00		of-Way Subtotal:	\$0.00
Contingency	15.0%		Way Subtotal	\$0.00
	13.070		Right-of-Way:	\$0.00
Engineering	11.5%		uction Total	\$19,087.99
Construction Inspection	8.0%		uction Total	\$13,278.60
Administration and Planning	1.5%		uction Total	\$2,489.74
, tanning a data i tanning	1.570		al Project Cost:	\$206,588.83
	L	100	ar i roject cost.	7200,300.03

PROJECT CODE: 115A TRANSPORTATION DISTRICT: Eastern/Western District

LOCATION:

Route 272 & Route 897

DEFICIENCY:

The current intersection geometry is deficient with 2034 base traffic volumes.

PROPOSED IMPROVEMENTS:

Construct a 2nd northbound left turn lane on SR 272

ESTIMATED COST SUMMARY:

(Current Year 2010 Dollars)

Construction	197,585
Utility Relocation	16,330
Right-of-Way	0
Engineering	22,722
Inspection	15,807
Admin & Planning	2,964
TOTAL	\$255,408

CONSTRUCTION YEAR AND PROJECTED COST:

Construction Year	2034	Inflation Rate: 3.76%
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Projected Construction Cost \$642,663

PROPOSED FUNDING: PROJECT SCHEDULE:

				rear
State/Federal	100%	\$642,663	Secure Funding	2032
Other	0%	\$0	Acquire ROW	2033
Impact Fees	0%	\$0	Compete Engineering	2033
			Begin Construction	2034

TRANSPORTATION DISTRICT COST:

Western District	50%	\$0
Eastern District	50%	\$0
Southern Distict	0%	\$0

Project Number I15A	Done By: BDE		Checked: I	MJR
Description	Cost	Unit	Quantity	Total
Construction Items				
Traffic Signals				
New Signal (4-way)	\$200,000.00	Each	0	\$0.00
New Signal (3-way)	\$150,000.00	Each	0	\$0.00
Signal Modifications	\$20,000.00	Each	1	\$20,000.00
Emergency Vehicle Preemption Only	\$10,000.00	Each	0	\$0.00
Pavement	, ,			
1.5" Pavement Overlay and Milling	\$7.00	Square Yard	0	\$0.00
New Pavement - Arterial Roads	\$46.00	Square Yard	533	\$24,518.00
New Pavement - Collector Roads	\$40.00	Square Yard	0	\$0.00
New Pavement - Local Commercial Roads	\$34.00	Square Yard	0	\$0.00
New Pavement - Local Residential Roads	\$29.00	Square Yard	0	\$0.00
4" PBD	\$7.25	Linear Foot	600	\$4,350.00
Excavation	Ć42.00	0.11.11		40.00
Excavation (Borrow)	\$12.00	Cubic Yard	0	\$0.00
Drainage Inlet/Manhole	¢2.400.00			ć2 400 00
·	\$2,400.00 \$55.00	Each	1	\$2,400.00
Pipe and Trenching	· · · · · · · · · · · · · · · · · · ·	Linear Foot	0	\$0.00
Culvert	\$700.00	Linear Foot	0	\$0.00
Pavement Markings 4" Pavement Markings	\$2.00	Linear Foot	2600	¢E 200 00
8" Pavement Markings	\$8.00	Linear Foot Linear Foot	2600	\$5,200.00 \$0.00
Miscellaneous	\$6.00	Linear Foot	U	\$0.00
Guide Rail	\$18.00	Linear Foot	0	\$0.00
Concrete Curb	\$35.00	Linear Foot	600	\$21,000.00
Bituminous Wedge Curb	\$7.00	Linear Foot	000	\$0.00
Other Miscellaneous	\$7.00	Linear root	U _I	Ş0.00
Post Mounted Signs	\$200.00	Each	13	\$2,600.00
Sidewalk	\$65.00	SY	1200	\$78,000.00
J.ac.Walk	\$05.00		truction Subtotal:	\$158,068.00
Mobilization	5.0%		uction Total	\$7,903.40
Maintenance and Protection of Traffic	5.0%		uction Total	\$7,903.40
Contingency	15.0%	Of Constr	uction Total	\$23,710.20
,		Tota	l Construction:	\$197,585.00
Utility Relocation	•			, , , , , , , , , , , , , , , , , , , ,
Utility Pole Relocation	\$3,300.00	Each	4	\$13,200.00
Electric Service	\$2,000.00	Each	0	\$0.00
Water/ Gas Valves	\$250.00	Each	0	\$0.00
Fire Hydrant Relocation	\$1,000.00	Each	1	\$1,000.00
High Tension Electric Poles	\$130,000.00	Each	0	\$0.00
Sanitary Manhole	\$2,400.00	Each	0	\$0.00
Other	\$5,000.00	Project	0	\$0.00
			Utility Subtotal:	\$14,200.00
Contingency	15.0%		y Subtotal	\$2,130.00
		Total Util	ity Relocation:	\$16,330.00
Right-of-Way				
Right-of-Way - Urban	\$150,000.00	Acres	0	\$0.00
Right-of-Way - Rural	\$120,000.00	Acres	0	\$0.00
Construction Easement (75% of ROW)	4400000	Acres	0	\$0.00
Structures	\$180,000.00	Each	0	\$0.00
- ···			-of-Way Subtotal:	\$0.00
Contingency	15.0%		Way Subtotal	\$0.00
	44 ==:		Right-of-Way:	\$0.00
Engineering	11.5%		uction Total	\$22,722.28
Construction Inspection	8.0%		uction Total	\$15,806.80
Administration and Planning	1.5%		uction Total	\$2,963.78
		Tota	al Project Cost:	\$255,407.85

PROJECT CODE: 115B TRANSPORTATION DISTRICT: Eastern/Western District

LOCATION:

Route 272 & Route 897

DEFICIENCY:

The current intersection geometry is deficient with 2034 base traffic volumes.

PROPOSED IMPROVEMENTS:

Construct a 2nd westbound left turn lane on SR 897.

ESTIMATED COST SUMMARY:

(Current Year 2010 Dollars)

Construction	106,210
Utility Relocation	24,725
Right-of-Way	0
Engineering	12,214
Inspection	8,497
Admin & Planning	1,593
TOTAL	\$153,239

CONSTRUCTION YEAR AND PROJECTED COST:

Construction Year	2034	Inflation Rate: 3.76%
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Projected Construction Cost \$385,584

PROPOSED FUNDING: PROJECT SCHEDULE:

	_			Year
State/Federal	100%	\$385,584	Secure Funding	2032
Other	0%	\$0	Acquire ROW	2033
Impact Fees	0%	\$0	Compete Engineering	2033
			Begin Construction	2034

REMARKS:

TRANSPORTATION DISTRICT COST:

Western District	50%	\$0
Eastern District	50%	\$0
Southern Distict	0%	\$0

Project Number I15B	Done By: BDE		Checked: N	1JR
Description	Cost	Unit	Quantity	Total
Construction Items			-	
Traffic Signals				
New Signal (4-way)	\$200,000.00	Each	0	\$0.00
New Signal (3-way)	\$150,000.00	Each	0	\$0.00
Signal Modifications	\$20,000.00	Each	1	\$20,000.00
Emergency Vehicle Preemption Only	\$10,000.00	Each	0	\$0.00
Pavement	1 +=1			
1.5" Pavement Overlay and Milling	\$7.00	Square Yard	0	\$0.00
New Pavement - Arterial Roads	\$46.00	Square Yard	533	\$24,518.00
New Pavement - Collector Roads	\$40.00	Square Yard	0	\$0.00
New Pavement - Local Commercial Roads	\$34.00	Square Yard	0	\$0.00
New Pavement - Local Residential Roads 4" PBD	\$29.00 \$7.25	Square Yard	600	\$0.00
	\$7.25	Linear Foot	600	\$4,350.00
Excavation Excavation (Borrow)	\$12.00	Cubic Yard	0	\$0.00
·	\$12.00	Cubic Yaru	U	\$0.00
Drainage Inlet/Manhole	\$2,400.00	Each	2	\$4,800.00
Pipe and Trenching	\$55.00	Linear Foot	0	\$4,800.00
Culvert	\$700.00	Linear Foot	0	\$0.00
Pavement Markings	\$700.00	Linear root	<u> </u>	٥٥.٥٥
4" Pavement Markings	\$2.00	Linear Foot	2600	\$5,200.00
8" Pavement Markings	\$8.00	Linear Foot	0	\$0.00
Miscellaneous	\$0.00	Linear 1 oot	U U	70.00
Guide Rail	\$18.00	Linear Foot	0	\$0.00
Concrete Curb	\$35.00	Linear Foot	700	\$24,500.00
Bituminous Wedge Curb	\$7.00	Linear Foot	0	\$0.00
Other Miscellaneous	ψ1.00	Linear 1 oot	<u> </u>	70.00
Post Mounted Signs	\$200.00	Each	8	\$1,600.00
Other	Ψ200.00	Lucii	J	\$0.00
		Cons	truction Subtotal:	\$84,968.00
Mobilization	5.0%		uction Total	\$4,248.40
Maintenance and Protection of Traffic	5.0%	Of Constr	uction Total	\$4,248.40
Contingency	15.0%	Of Construction Total		\$12,745.20
		Tota	l Construction:	\$106,210.00
Utility Relocation	•			
Utility Pole Relocation	\$3,300.00	Each	5	\$16,500.00
Electric Service	\$2,000.00	Each	0	\$0.00
Water/ Gas Valves	\$250.00	Each	0	\$0.00
Fire Hydrant Relocation	\$1,000.00	Each	0	\$0.00
High Tension Electric Poles	\$130,000.00	Each	0	\$0.00
Sanitary Manhole	\$2,400.00	Each	0	\$0.00
Street Light	\$5,000.00	Project	1	\$5,000.00
			Utility Subtotal:	\$21,500.00
Contingency	15.0%		y Subtotal	\$3,225.00
		Total Util	lity Relocation:	\$24,725.00
Right-of-Way				
Right-of-Way - Urban	\$150,000.00	Acres	0	\$0.00
Right-of-Way - Rural	\$120,000.00	Acres	0	\$0.00
Construction Easement (75% of ROW)		Acres	0	\$0.00
Structures	\$180,000.00	Each	0	\$0.00
			-of-Way Subtotal:	\$0.00
Contingency	15.0%		Way Subtotal	\$0.00
			Right-of-Way:	\$0.00
Engineering	11.5%		uction Total	\$12,214.15
Construction Inspection	8.0%		uction Total	\$8,496.80
Administration and Planning	1.5%		uction Total	\$1,593.15
		Tota	al Project Cost:	\$153,239.10

PROJECT CODE: 115C TRANSPORTATION DISTRICT: Eastern/Western District

LOCATION:

Route 272 & Route 897

DEFICIENCY:

The current intersection geometry is deficient with 2034 base traffic volumes.

PROPOSED IMPROVEMENTS:

Construct an eastbound right turn lane on SR 897.

ESTIMATED COST SUMMARY:

(Current Year 2010 Dollars)

Construction	64,741
Utility Relocation	15,180
Right-of-Way	16,616
Engineering	7,445
Inspection	5,179
Admin & Planning	971
TOTAL	\$110,133

CONSTRUCTION YEAR AND PROJECTED COST:

Construction Year 2034 Inflation Rate: 3.76%

Projected Construction Cost \$277,12

PROPOSED FUNDING: PROJECT SCHEDULE:

				i eai
State/Federal	100%	\$277,118	Secure Funding	2032
Other	0%	\$0	Acquire ROW	2033
Impact Fees	0%	\$0	Compete Engineering	2033
			Begin Construction	2034

REMARKS:

TRANSPORTATION DISTRICT COST:

Western District	50%	\$0
Eastern District	50%	\$0
Southern Distict	0%	\$0

Project Number I15C	Done By: BDE		Checked: N	MJR
Description	Cost	Unit	Quantity	Total
Construction Items				
Traffic Signals				
New Signal (4-way)	\$200,000.00	Each	0	\$0.00
New Signal (3-way)	\$150,000.00	Each	0	\$0.00
Signal Modifications	\$20,000.00	Each	1	\$20,000.00
Emergency Vehicle Preemption Only	\$10,000.00	Each	0	\$0.00
Pavement	, ,			
1.5" Pavement Overlay and Milling	\$7.00	Square Yard	0	\$0.00
New Pavement - Arterial Roads	\$46.00	Square Yard	333	\$15,318.00
New Pavement - Collector Roads	\$40.00	Square Yard	0	\$0.00
New Pavement - Local Commercial Roads	\$34.00	Square Yard	0	\$0.00
New Pavement - Local Residential Roads	\$29.00	Square Yard	0	\$0.00
4" PBD	\$7.25	Linear Foot	300	\$2,175.00
Excavation	Ć42.00	0.11.11		40.00
Excavation (Borrow)	\$12.00	Cubic Yard	0	\$0.00
Drainage Inlet/Manhole	¢2.400.00	Fl-	4	ć2 400 00
·	\$2,400.00 \$55.00	Each	1 0	\$2,400.00
Pipe and Trenching Culvert	\$700.00	Linear Foot	0	\$0.00
	\$700.00	Linear Foot	U	\$0.00
Pavement Markings 4" Pavement Markings	\$2.00	Linear Foot	400	\$900.00
8" Pavement Markings	\$8.00	Linear Foot Linear Foot	400	\$800.00 \$0.00
Miscellaneous	\$6.00	Lilledi FOOL	U	\$0.00
Guide Rail	\$18.00	Linear Foot	0	\$0.00
Concrete Curb	\$35.00	Linear Foot	300	\$10,500.00
Bituminous Wedge Curb	\$7.00	Linear Foot	0	\$0.00
Other Miscellaneous	\$7.00	Linear root	U _L	Ş0.00
Post Mounted Signs	\$200.00	Each	3	\$600.00
Other	\$200.00	Lacii	<u> </u>	\$0.00
other		Cons	truction Subtotal:	\$51,793.00
Mobilization	5.0%		uction Total	\$2,589.65
Maintenance and Protection of Traffic	5.0%		uction Total	\$2,589.65
Contingency	15.0%	Of Constr	uction Total	\$7,768.95
,		Tota	l Construction:	\$64,741.25
Utility Relocation	•			1 - /
Utility Pole Relocation	\$3,300.00	Each	4	\$13,200.00
Electric Service	\$2,000.00	Each	0	\$0.00
Water/ Gas Valves	\$250.00	Each	0	\$0.00
Fire Hydrant Relocation	\$1,000.00	Each	0	\$0.00
High Tension Electric Poles	\$130,000.00	Each	0	\$0.00
Sanitary Manhole	\$2,400.00	Each	0	\$0.00
Other	\$5,000.00	Project	0	\$0.00
			Utility Subtotal:	\$13,200.00
Contingency	15.0%		y Subtotal	\$1,980.00
		Total Util	ity Relocation:	\$15,180.00
Right-of-Way				
Right-of-Way - Urban	\$150,000.00	Acres	0	\$0.00
Right-of-Way - Rural	\$120,000.00	Acres	0.068801653	\$8,256.20
Construction Easement (75% of ROW)	4.00.000.00	Acres	0	\$6,192.15
Structures	\$180,000.00	Each	0	\$0.00
			-of-Way Subtotal:	\$14,448.35
Contingency	15.0%		Way Subtotal	\$2,167.25
			Right-of-Way:	\$16,615.60
Engineering	11.5%		uction Total	\$7,445.24
Construction Inspection	8.0%		uction Total	\$5,179.30
Administration and Planning	1.5%		uction Total	\$971.12
		Tota	al Project Cost:	\$110,132.51

PROJECT CODE: S24 TRANSPORTATION DISTRICT: Eastern District

LOCATION:

Route 897, east of Route 272

DEFICIENCY:

The current roadway segment is deficient with 2034 base traffic volumes.

PROPOSED IMPROVEMENTS:

Construct additional thru lanes.

ESTIMATED COST SUMMARY:

(Current Year 2010 Dollars)

Construction	2,157,603
Utility Relocation	116,150
Right-of-Way	739,248
Engineering	248,124
Inspection	172,608
Admin & Planning	32,364
TOTAL	\$3,466,097

CONSTRUCTION YEAR AND PROJECTED COST:

Construction Year 2034 Inflation Rate: 3.76%

Projected Construction Cost \$8,721,47

PROPOSED FUNDING: PROJECT SCHEDULE:

		_		Year
State/Federal	100%	\$8,721,472	Secure Funding	2032
Other	0%	\$0	Acquire ROW	2033
Impact Fees	0%	\$0	Compete Engineering	2033
		_	Begin Construction	2034

TRANSPORTATION DISTRICT COST:

Western District	0%	\$0
Eastern District	100%	\$0
Southern Distict	0%	\$0

Project Number S24	Done By: BDE		Checked:	MJR
Description	Cost	Unit	Quantity	Total
Construction Items				
Traffic Signals				
New Signal (4-way)	\$200,000.00	Each	1	\$200,000.00
New Signal (3-way)	\$150,000.00	Each	0	\$0.00
Signal Modifications	\$20,000.00	Each	0	\$0.00
Emergency Vehicle Preemption Only	\$10,000.00	Each	0	\$0.00
Pavement	1 4-00		- I	
1.5" Pavement Overlay and Milling	\$7.00	Square Yard	0	\$0.00
New Pavement - Arterial Roads New Pavement - Collector Roads	\$46.00	Square Yard	10667	\$490,682.00
New Pavement - Collector Roads New Pavement - Local Commercial Roads	\$40.00 \$34.00	Square Yard	0	\$0.00 \$0.00
New Pavement - Local Residential Roads	\$29.00	Square Yard Square Yard	0	\$0.00
4" PBD	\$7.25	Linear Foot	8000	\$58,000.00
Excavation	\$7.25	Linear Foot	8000	\$38,000.00
Excavation (Borrow)	\$12.00	Cubic Yard	0	\$0.00
Drainage	Ģ12.00	Cable Tara	<u> </u>	, γ0.00
Inlet/Manhole	\$2,400.00	Each	10	\$24,000.00
Pipe and Trenching	\$55.00	Linear Foot	0	\$0.00
Culvert	\$700.00	Linear Foot	0	\$0.00
Pavement Markings	,		<u> </u>	7
4" Pavement Markings	\$2.00	Linear Foot	16000	\$32,000.00
8" Pavement Markings	\$8.00	Linear Foot	0	\$0.00
Miscellaneous				•
Guide Rail	\$18.00	Linear Foot	400	\$7,200.00
Concrete Curb	\$35.00	Linear Foot	4000	\$140,000.00
Bituminous Wedge Curb	\$7.00	Linear Foot	0	\$0.00
Other Miscellaneous				
Post Mounted Signs	\$200.00	Each	21	\$4,200.00
Widen Bridge Structure	\$3,850.00	SY	200	\$770,000.00
			truction Subtotal:	\$1,726,082.00
Mobilization	5.0%		uction Total	\$86,304.10
Maintenance and Protection of Traffic	5.0%		uction Total	\$86,304.10
Contingency	15.0%		uction Total I Construction:	\$258,912.30
Utility Relocation	l	1014	i Construction.	\$2,157,602.50
Utility Pole Relocation	\$3,300.00	Each	30	\$99,000.00
Electric Service	\$2,000.00	Each	0	\$0.00
Water/ Gas Valves	\$250.00	Each	0	\$0.00
Fire Hydrant Relocation	\$1,000.00	Each	2	\$2,000.00
High Tension Electric Poles	\$130,000.00	Each	0	\$0.00
Sanitary Manhole	\$2,400.00	Each	0	\$0.00
Other	\$5,000.00	Project	0	\$0.00
		j	Utility Subtotal:	\$101,000.00
Contingency	15.0%	Of Utilit	y Subtotal	\$15,150.00
		Total Uti	lity Relocation:	\$116,150.00
Right-of-Way	-			
Right-of-Way - Urban	\$150,000.00	Acres	0	\$0.00
Right-of-Way - Rural	\$120,000.00	Acres	2.20392562	\$264,471.07
Construction Easement (75% of ROW)	1	Acres	0	\$198,353.31
Structures	\$180,000.00	Each	1	\$180,000.00
	4= 51/1	Right-of-Way Subtotal:		\$642,824.38
Contingency	15.0%		Way Subtotal	\$96,423.66
Fundamentum	44 50/		Right-of-Way:	\$739,248.04
Engineering	11.5%		uction Total	\$248,124.29
Construction Inspection	8.0%		uction Total	\$172,608.20
Administration and Planning	1.5%		uction Total	\$32,364.04
	<u> </u>	100	al Project Cost:	\$3,466,097.06

PROJECT CODE: 125 TRANSPORTATION DISTRICT: Western District

LOCATION:

Stevens Road (SR 1045) & Wabash Road (T-669) / Indiantown Road (West Cocalico Township)

DEFICIENCY:

The current intersection is deficient with 2034 base traffic volumes.

PROPOSED IMPROVEMENTS:

Install a traffic signal.

ESTIMATED COST SUMMARY:

(Current Year 2010 Dollars)

Construction	250,000
Utility Relocation	0
Right-of-Way	0
Engineering	28,750
Inspection	20,000
Admin & Planning	3,750
TOTAL	\$302,500

CONSTRUCTION YEAR AND PROJECTED COST:

Construction Year	2024	Inflation Rate: 3.76%
Projected Construction Cost	\$526,229	

PROPOSED FUNDING:

PROJECT SCHEDULE:

	<u></u>			Year
State/Federal	0%	\$0	Secure Funding	2022
Other	100%	\$526,229	Acquire ROW	2023
Impact Fees	0%	\$0	Compete Engineering	2023
			Begin Construction	2024

TRANSPORTATION DISTRICT COST:

Western District	100%	\$0
Eastern District	0%	\$0
Southern Distict	0%	\$0

Project Number 125	Done By: BDE		Checked:	MJR
Description	Cost	Unit	Quantity	Total
Construction Items				
Traffic Signals				
New Signal (4-way)	\$200,000.00	Each	1	\$200,000.00
New Signal (3-way)	\$150,000.00	Each	0	\$0.00
Signal Modifications	\$20,000.00	Each	0	\$0.00
Emergency Vehicle Preemption Only	\$10,000.00	Each	0	\$0.00
Pavement			1 -1	
1.5" Pavement Overlay and Milling	\$7.00	Square Yard	0	\$0.00
New Pavement - Arterial Roads	\$46.00	Square Yard	0	\$0.00
New Pavement - Collector Roads New Pavement - Local Commercial Roads	\$40.00 \$34.00	Square Yard	0	\$0.00 \$0.00
New Pavement - Local Residential Roads	\$29.00	Square Yard Square Yard	0	\$0.00
4" PBD	\$7.25	Linear Foot	0	\$0.00
Excavation	γ1.23	Linear 100t	U U	٥٥.٥٥
Excavation (Borrow)	\$12.00	Cubic Yard	0	\$0.00
Drainage	7-2-3	Cable Fara	<u> </u>	φο.σο
Inlet/Manhole	\$2,400.00	Each	0	\$0.00
Pipe and Trenching	\$55.00	Linear Foot	0	\$0.00
Culvert	\$700.00	Linear Foot	0	\$0.00
Pavement Markings	•			
4" Pavement Markings	\$2.00	Linear Foot	0	\$0.00
8" Pavement Markings	\$8.00	Linear Foot	0	\$0.00
Miscellaneous				
Guide Rail	\$18.00	Linear Foot	0	\$0.00
Concrete Curb	\$35.00	Linear Foot	0	\$0.00
Bituminous Wedge Curb	\$7.00	Linear Foot	0	\$0.00
Other Miscellaneous	¢200.00		l al	40.00
Post Mounted Signs Other	\$200.00	Each	0	\$0.00 \$0.00
Other		Cons	truction Subtotal:	\$200,000.00
Mobilization	5.0%		uction Total	\$10,000.00
Maintenance and Protection of Traffic	5.0%		uction Total	\$10,000.00
Contingency	15.0%		uction Total	\$30,000.00
			l Construction:	\$250,000.00
Utility Relocation	•			,,
Utility Pole Relocation	\$3,300.00	Each	0	\$0.00
Electric Service	\$2,000.00	Each	0	\$0.00
Water/ Gas Valves	\$250.00	Each	0	\$0.00
Fire Hydrant Relocation	\$1,000.00	Each	0	\$0.00
High Tension Electric Poles	\$130,000.00	Each	0	\$0.00
Sanitary Manhole	\$2,400.00	Each	0	\$0.00
Other	\$5,000.00	Project	0	\$0.00
Cantingan	15.00/	Of Hailia	Utility Subtotal:	\$0.00
Contingency	15.0%		y Subtotal lity Relocation:	\$0.00 \$0.00
Right-of-Way		Total Oth	ity Reiocation.	\$0.00
Right-of-Way - Urban	\$150,000.00	Acres	0	\$0.00
Right-of-Way - Rural	\$120,000.00	Acres	0	\$0.00
Construction Easement (75% of ROW)		Acres	0	\$0.00
Structures	\$180,000.00	Each	0	\$0.00
	•	Right	-of-Way Subtotal:	\$0.00
Contingency	15.0%	Of Right-of-	-Way Subtotal	\$0.00
		Total Right-of-Way:		
Engineering	11.5%		uction Total	\$28,750.00
Construction Inspection	8.0%		uction Total	\$20,000.00
Administration and Planning	1.5%		uction Total	\$3,750.00
		Tota	al Project Cost:	\$302,500.00

PROJECT CODE: 126 TRANSPORTATION DISTRICT: Western District

LOCATION:

Stevens Road (SR 1045) / Line Road (SR 1045) & Sevens Road (SR 1030) / south Main Street (West Cocalico

DEFICIENCY:

The current intersection is deficient with 2034 base traffic volumes.

PROPOSED IMPROVEMENTS:

Install a traffic signal.

ESTIMATED COST SUMMARY:

(Current Year 2010 Dollars)

Construction	250,000
Utility Relocation	0
Right-of-Way	0
Engineering	28,750
Inspection	20,000
Admin & Planning	3,750
TOTAL	\$302,500

CONSTRUCTION YEAR AND PROJECTED COST:

Construction Year	2024	Inflation Rate: 3.76%
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Projected Construction Cost \$526,229

PROPOSED FUNDING: PROJECT SCHEDULE:

				i eai
State/Federal	0%	\$0	Secure Funding	2022
Other	100%	\$526,229	Acquire ROW	2023
Impact Fees	0%	\$0	Compete Engineering	2023
			Begin Construction	2024

TRANSPORTATION DISTRICT COST:

Western District	100%	\$0
Eastern District	0%	\$0
Southern Distict	0%	\$0

Project Number 126	Done By: BDE		Checked:	MJR
Description	Cost	Unit	Quantity	Total
Construction Items				
Traffic Signals				
New Signal (4-way)	\$200,000.00	Each	1	\$200,000.00
New Signal (3-way)	\$150,000.00	Each	0	\$0.00
Signal Modifications	\$20,000.00	Each	0	\$0.00
Emergency Vehicle Preemption Only	\$10,000.00	Each	0	\$0.00
Pavement	1 4-00		- T	
1.5" Pavement Overlay and Milling	\$7.00	Square Yard	0	\$0.00
New Pavement - Arterial Roads	\$46.00	Square Yard	0	\$0.00
New Pavement - Collector Roads New Pavement - Local Commercial Roads	\$40.00 \$34.00	Square Yard	0	\$0.00 \$0.00
New Pavement - Local Residential Roads	\$29.00	Square Yard Square Yard	0	\$0.00
4" PBD	\$7.25	Linear Foot	0	\$0.00
Excavation	Ϋ1.23	Linear 100t	0	٥٥.٥٥
Excavation (Borrow)	\$12.00	Cubic Yard	0	\$0.00
Drainage	7==:00	Cable Fara	<u> </u>	φο.σο
Inlet/Manhole	\$2,400.00	Each	0	\$0.00
Pipe and Trenching	\$55.00	Linear Foot	0	\$0.00
Culvert	\$700.00	Linear Foot	0	\$0.00
Pavement Markings	•			
4" Pavement Markings	\$2.00	Linear Foot	0	\$0.00
8" Pavement Markings	\$8.00	Linear Foot	0	\$0.00
Miscellaneous				
Guide Rail	\$18.00	Linear Foot	0	\$0.00
Concrete Curb	\$35.00	Linear Foot	0	\$0.00
Bituminous Wedge Curb	\$7.00	Linear Foot	0	\$0.00
Other Miscellaneous	¢200.00			40.00
Post Mounted Signs Other	\$200.00	Each	0	\$0.00 \$0.00
Other		Cons	truction Subtotal:	\$200,000.00
Mobilization	5.0%		uction Total	\$10,000.00
Maintenance and Protection of Traffic	5.0%		uction Total	\$10,000.00
Contingency	15.0%		uction Total	\$30,000.00
6 7			l Construction:	\$250,000.00
Utility Relocation	•			,,
Utility Pole Relocation	\$3,300.00	Each	0	\$0.00
Electric Service	\$2,000.00	Each	0	\$0.00
Water/ Gas Valves	\$250.00	Each	0	\$0.00
Fire Hydrant Relocation	\$1,000.00	Each	0	\$0.00
High Tension Electric Poles	\$130,000.00	Each	0	\$0.00
Sanitary Manhole	\$2,400.00	Each	0	\$0.00
Other	\$5,000.00	Project	0	\$0.00
	45.00/	Of Hailia	Utility Subtotal:	\$0.00
Contingency	15.0%		y Subtotal lity Relocation:	\$0.00
Right-of-Way	L	TOTAL OTL	ity Kelocation.	\$0.00
Right-of-Way - Urban	\$150,000.00	Acres	0	\$0.00
Right-of-Way - Rural	\$120,000.00	Acres	0	\$0.00
Construction Easement (75% of ROW)	φ==0,000.00	Acres	0	\$0.00
Structures	\$180,000.00	Each	0	\$0.00
			-of-Way Subtotal:	\$0.00
Contingency	15.0%			\$0.00
		Total Right-of-Way:		
Engineering	11.5%		uction Total	\$0.00 \$28,750.00
Construction Inspection	8.0%	Of Constr	uction Total	\$20,000.00
Administration and Planning	1.5%		uction Total	\$3,750.00
		Tota	al Project Cost:	\$302,500.00

PROJECT CODE: \$29 TRANSPORTATION DISTRICT: Southern District

LOCATION:

Church Street (SR 1051), between Red Run Road (SR 1044) & Napierville

DEFICIENCY:

The current roadway segment is deficient with 2034 base traffic volumes.

PROPOSED IMPROVEMENTS:

Widen to 12' lanes with 4' shoulders.

ESTIMATED COST SUMMARY:

(Current Year 2010 Dollars)

Construction	196,600
Utility Relocation	99,820
Right-of-Way	0
Engineering	22,609
Inspection	15,728
Admin & Planning	2,949
TOTAL	\$337,706

CONSTRUCTION YEAR AND PROJECTED COST:

Construction Year	2034	Inflation Rate: 3.76%
Projected Construction Cost	\$849,744	

PROPOSED FUNDING:

PROJECT SCHEDULE:

	<u>-</u>			Year
State/Federal	100%	\$849,744	Secure Funding	2032
Other	0%	\$0	Acquire ROW	2033
Impact Fees	0%	\$0	Compete Engineering	2033
			Begin Construction	2034

TRANSPORTATION DISTRICT COST:

Western District	0%	\$0
Eastern District	0%	\$0
Southern Distict	100%	\$0

Project Number S29	Done By: BDE		Checked: M	1JR
Description	Cost	Unit	Quantity	Total
Construction Items				
Traffic Signals				
New Signal (4-way)	\$200,000.00	Each	0	\$0.00
New Signal (3-way)	\$150,000.00	Each	0	\$0.00
Signal Modifications	\$20,000.00	Each	0	\$0.00
Emergency Vehicle Preemption Only	\$10,000.00	Each	0	\$0.00
Pavement	d= 00			40.00
1.5" Pavement Overlay and Milling	\$7.00	Square Yard	0	\$0.00
New Pavement - Arterial Roads New Pavement - Collector Roads	\$46.00 \$40.00	Square Yard	0	\$0.00
New Pavement - Local Commercial Roads	\$40.00	Square Yard	2667 0	\$106,680.00
New Pavement - Local Residential Roads	\$29.00	Square Yard Square Yard	0	\$0.00 \$0.00
4" PBD	\$7.25	Linear Foot	4000	\$29,000.00
Excavation	٧٦.٤٥	Lilleal Foot	4000	\$29,000.00
Excavation (Borrow)	\$12.00	Cubic Yard	0	\$0.00
Drainage	Ų12.00	Cubic rara	<u> </u>	Ş0.00
Inlet/Manhole	\$2,400.00	Each	8	\$19,200.00
Pipe and Trenching	\$55.00	Linear Foot	0	\$0.00
Culvert	\$700.00	Linear Foot	0	\$0.00
Pavement Markings			<u> </u>	70.00
4" Pavement Markings	\$2.00	Linear Foot	0	\$0.00
8" Pavement Markings	\$8.00	Linear Foot	0	\$0.00
Miscellaneous				·
Guide Rail	\$18.00	Linear Foot	0	\$0.00
Concrete Curb	\$35.00	Linear Foot	0	\$0.00
Bituminous Wedge Curb	\$7.00	Linear Foot	0	\$0.00
Other Miscellaneous				
Post Mounted Signs	\$200.00	Each	12	\$2,400.00
Other				\$0.00
			truction Subtotal:	\$157,280.00
Mobilization	5.0%		uction Total	\$7,864.00
Maintenance and Protection of Traffic	5.0%		uction Total	\$7,864.00
Contingency	15.0%		uction Total	\$23,592.00
Litility Delegation		iota	l Construction:	\$196,600.00
Utility Relocation Utility Pole Relocation	\$3,300.00	Each	26	\$85,800.00
Electric Service	\$2,000.00	Each	0	\$0.00
Water/ Gas Valves	\$250.00	Each	0	\$0.00
Fire Hydrant Relocation	\$1,000.00	Each	1	\$1,000.00
High Tension Electric Poles	\$130,000.00	Each	0	\$0.00
Sanitary Manhole	\$2,400.00	Each	0	\$0.00
Other	\$5,000.00	Project	0	\$0.00
	. ,	- ,	Utility Subtotal:	\$86,800.00
Contingency	15.0%	Of Utilit	y Subtotal	\$13,020.00
		Total Util	lity Relocation:	\$99,820.00
Right-of-Way				
Right-of-Way - Urban	\$150,000.00	Acres	0	\$0.00
Right-of-Way - Rural	\$120,000.00	Acres	0	\$0.00
Construction Easement (75% of ROW)		Acres	0	\$0.00
Structures	\$180,000.00	Each	0	\$0.00
			-of-Way Subtotal:	\$0.00 \$0.00
Contingency	15.0%			
	44 ==1		Right-of-Way:	\$0.00
Engineering	11.5%		uction Total	\$22,609.00
Construction Inspection	8.0%		uction Total	\$15,728.00
Administration and Planning	1.5%		uction Total	\$2,949.00
		IOt	al Project Cost:	\$337,706.00

PROJECT CODE: S01 TRANSPORTATION DISTRICT: Western District

LOCATION:

Denver Road Bridge (T-901)

DEFICIENCY:

The current roadway segment is deficient with 2034 projected traffic volumes.

PROPOSED IMPROVEMENTS:

Widen to 12' lanes with 6' shoulders (upgrade to community collector)

ESTIMATED COST SUMMARY:

(Current Year 2010 Dollars)

Construction	804,938
Utility Relocation	7,590
Right-of-Way	53,130
Engineering	201,234
Inspection	80,494
Admin & Planning	12,074
TOTAL	\$1,159,460

CONSTRUCTION YEAR AND PROJECTED COST:

Construction Year	2014	Inflation Rate: 3.76%
construction real	2017	

Projected Construction Cost \$1,394,458

PROPOSED FUNDING: PROJECT SCHEDULE:

	_			Year
State/Federal	0%	\$0	Secure Funding	2012
Other	0%	\$0	Acquire ROW	2012
Impact Fees	100%	\$1,394,458	Compete Engineering	2013
			Begin Construction	2014

TRANSPORTATION DISTRICT COST:

Western District	100%	\$1,394,458
Eastern District	0%	\$0
Southern Distict	0%	\$0

Project Number S01	Done By: BDE	Checked: MJR		MJR
Description	Cost	Unit	Quantity	Total
Construction Items			-	
Traffic Signals				
New Signal (4-way)	\$200,000.00	Each	0	\$0.00
New Signal (3-way)	\$150,000.00	Each	0	\$0.00
Signal Modifications	\$20,000.00	Each	0	\$0.00
Emergency Vehicle Preemption Only	\$10,000.00	Each	0	\$0.00
Pavement			I	
1.5" Pavement Overlay and Milling	\$7.00	Square Yard	0	\$0.00
New Pavement - Arterial Roads	\$46.00	Square Yard	0	\$0.00
New Pavement - Collector Roads	\$40.00	Square Yard	4000	\$160,000.00
New Pavement - Local Commercial Roads	\$34.00	Square Yard	0	\$0.00
New Pavement - Local Residential Roads 4" PBD	\$29.00	Square Yard	0	\$0.00
	\$7.25	Linear Foot	2000	\$14,500.00
Excavation Excavation (Borrow)	\$12.00	Cubic Vard	0	¢0.00
· · ·	\$12.00	Cubic Yard	U	\$0.00
Drainage Inlet/Manhole	\$2,400.00	Each	4	\$9,600.00
Pipe and Trenching	\$55.00	Linear Foot	222	\$12,210.00
Culvert	\$700.00	Linear Foot	0	\$0.00
Pavement Markings	\$700.00	Linear 100t	U U	\$0.00
4" Pavement Markings	\$0.16	Linear Foot	4000	\$640.00
8" Pavement Markings	\$8.00	Linear Foot	0	\$0.00
Miscellaneous	φο.σσ	Linear Foot	<u> </u>	φο.σσ
Guide Rail	\$25.00	Linear Foot	500	\$12,500.00
Concrete Curb	\$35.00	Linear Foot	2000	\$70,000.00
Bituminous Wedge Curb	\$7.00	Linear Foot	0	\$0.00
Other Miscellaneous	<u> </u>			,
Post Mounted Signs	\$200.00	Each	0	\$0.00
New Bridge Structure	\$1,350.00	Square Yard	270	\$364,500.00
		Cons	\$643,950.00	
Mobilization	5.0%	Of Construction Total		\$32,197.50
Maintenance and Protection of Traffic	5.0%	Of Construction Total		\$32,197.50
Contingency	15.0%	Of Construction Total		\$96,592.50
		Tota	I Construction:	\$804,937.50
Utility Relocation				
Utility Pole Relocation	\$3,300.00	Each	2	\$6,600.00
Electric Service	\$2,000.00	Each	0	\$0.00
Water/ Gas Valves	\$250.00	Each	0	\$0.00
Fire Hydrant Relocation	\$1,000.00	Each	0	\$0.00
High Tension Electric Poles	\$130,000.00	Each	0	\$0.00
Sanitary Manhole	\$2,400.00	Each	0	\$0.00
Other	\$5,000.00	Project	0	\$0.00
Cantingana	15.00/	Of 1.1+:11:+	Utility Subtotal:	\$6,600.00
Contingency	15.0%	Of Utility Subtotal Total Utility Relocation:		\$990.00
Pight of Way	<u>l</u>	TOTAL OTL	ity Kelocation.	\$7,590.00
Right-of-Way Right-of-Way - Urban	\$150,000.00	Acres	0	\$0.00
Right-of-Way - Rural	\$120,000.00	Acres	0.31	\$37,200.00
Construction Easement (25% of ROW)	\$30,000.00	Acres	0.31	\$9,000.00
Structures	\$180,000.00	Each	0.5	\$0.00
	Right-of-Way Subtotal		•	\$46,200.00
Contingency	15.0%			\$6,930.00
3- ·/		Total Right-of-Way:		\$53,130.00
Engineering		Of Construction Total		
	25.0%	Of Constr	uction rotal	\$201,234.38
Construction Inspection	25.0% 10.0%		uction Total	\$80,493.75
Construction Inspection Administration and Planning		Of Constr		

PROJECT CODE: 103 TRANSPORTATION DISTRICT: Southern District

LOCATION:

Church Street (SR 1051) & Reamstown Road (T-700)

DEFICIENCY:

The current intersection is deficient with 2034 projected traffic volumes.

PROPOSED IMPROVEMENTS:

Install a traffic signal.

ESTIMATED COST SUMMARY:

(Current Year 2010 Dollars)

Construction	250,000
Utility Relocation	0
Right-of-Way	17,250
Engineering	28,750
Inspection	20,000
Admin & Planning	3,750
TOTAL	\$319.750

CONSTRUCTION YEAR AND PROJECTED COST:

Construction Year	2024	Inflation Rate: 3.76%
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Projected Construction Cost \$556,237

PROPOSED FUNDING: PROJECT SCHEDULE:

	_			Year
State/Federal	0%	\$0	Secure Funding	2022
Other	33%	\$183,558	Acquire ROW	2023
Impact Fees	67%	\$372,679	Compete Engineering	2023
			Begin Construction	2024

TRANSPORTATION DISTRICT COST:

Western District	0%	\$0
Eastern District	0%	\$0
Southern Distict	100%	\$372.679

Project Number 103	Done By: BDE		Checked: N	ИJR
Description	Cost	Unit	Quantity	Total
Construction Items				
Traffic Signals				
New Signal (4-way)	\$200,000.00	Each	1	\$200,000.00
New Signal (3-way)	\$150,000.00	Each	0	\$0.00
Signal Modifications	\$20,000.00	Each	0	\$0.00
Emergency Vehicle Preemption Only	\$10,000.00	Each	0	\$0.00
Pavement				
1.5" Pavement Overlay and Milling	\$7.00	Square Yard	0	\$0.00
New Pavement - Arterial Roads	\$46.00	Square Yard	0	\$0.00
New Pavement - Collector Roads	\$40.00	Square Yard	0	\$0.00
New Pavement - Local Commercial Roads	\$34.00	Square Yard	0	\$0.00
New Pavement - Local Residential Roads	\$29.00	Square Yard	0	\$0.00
4" PBD	\$7.25	Linear Foot	0	\$0.00
Excavation	1 440.00			
Excavation (Borrow)	\$12.00	Cubic Yard	0	\$0.00
Drainage				40.00
Inlet/Manhole	\$2,400.00	Each	0	\$0.00
Pipe and Trenching	\$55.00	Linear Foot	0	\$0.00
Culvert	\$700.00	Linear Foot	0	\$0.00
Pavement Markings 4" Pavement Markings	¢2.00	L'accordant	0	¢0.00
	\$2.00	Linear Foot	0	\$0.00
8" Pavement Markings	\$8.00	Linear Foot	0	\$0.00
Miscellaneous Guide Rail	¢10.00	Lincon Foot	0	¢0.00
Concrete Curb	\$18.00 \$35.00	Linear Foot	0	\$0.00
Bituminous Wedge Curb	\$35.00	Linear Foot	0	\$0.00
Other Miscellaneous	\$7.00	Linear Foot	U	\$0.00
Post Mounted Signs	\$200.00	Each	٥	¢0.00
Other	\$200.00	Each	0	\$0.00 \$0.00
Other		Cons	truction Subtotal:	\$200,000.00
Mobilization	5.0%		uction Total	\$10,000.00
Maintenance and Protection of Traffic	5.0%		uction Total	\$10,000.00
Contingency	15.0%		uction Total	\$30,000.00
Contingency	15.070		l Construction:	\$250,000.00
Utility Relocation	L	10ta	r construction.	Ş230,000.00
Utility Pole Relocation	\$3,300.00	Each	0	\$0.00
Electric Service	\$2,000.00	Each	0	\$0.00
Water/ Gas Valves	\$250.00	Each	0	\$0.00
Fire Hydrant Relocation	\$1,000.00	Each	0	\$0.00
High Tension Electric Poles	\$130,000.00	Each	0	\$0.00
Sanitary Manhole	\$2,400.00	Each	0	\$0.00
Other	\$5,000.00	Project	0	\$0.00
	, -,	,	Utility Subtotal:	\$0.00
Contingency	15.0%	Of Utilit	y Subtotal	\$0.00
,			ity Relocation:	\$0.00
Right-of-Way	<u>.</u>		-1	7
Right-of-Way - Urban	\$150,000.00	Acres	0.1	\$15,000.00
Right-of-Way - Rural	\$120,000.00	Acres	0	\$0.00
Construction Easement (75% of ROW)		Acres	0	\$0.00
Structures	\$180,000.00	Each	0	\$0.00
	•	Right	-of-Way Subtotal:	\$15,000.00
Contingency	15.0%	Of Right-of-	Way Subtotal	\$2,250.00
-			Right-of-Way:	\$17,250.00
Engineering	11.5%		uction Total	\$28,750.00
Construction Inspection	8.0%		uction Total	\$20,000.00
	0.070	OI COIISti	action rotal	720,000.00
Administration and Planning	1.5%		uction Total	\$3,750.00

Western/Southern District PROJECT CODE: 104A TRANSPORTATION DISTRICT:

LOCATION:

Church Street (SR 1051) & Route 272

DEFICIENCY:

The current intersection geometry is deficient with 2034 projected traffic volumes.

PROPOSED IMPROVEMENTS:

Construct a westbound left turn lane and right turn lane, remove/install two signal poles, curb

ESTIMATED COST SUMMARY:

(Current Year 2010 Dollars)

Construction	382,000
Utility Relocation	35,535
Right-of-Way	75,469
Engineering	57,300
Inspection	38,200
Admin & Planning	5,730
TOTAL	\$594,234

CONSTRUCTION YEAR AND PROJECTED COST:

Construction Year	2019	Inflation Rate: 3.76%
Projected Construction Cost	\$859,522	

Projected Construction Cost

PROJECT SCHEDULE:

				Year
State/Federal	0%	\$0	Secure Funding	2017
Other	50%	\$429,761	Acquire ROW	2018
Impact Fees	50%	\$429,761	Compete Engineering	2018
			Begin Construction	2019

TRANSPORTATION DISTRICT COST:

PROPOSED FUNDING:

Western District	0%	\$0
Eastern District	0%	\$0
Southern Distict	100%	\$429,761

Project Number 104A	Done By: BDE		Checked: I	MJR
Description	Cost	Unit	Quantity	Total
Construction Items				
Traffic Signals				
New Signal (4-way)	\$200,000.00	Each	0.5	\$100,000.00
New Signal (3-way)	\$150,000.00	Each	0	\$0.00
Signal Modifications	\$20,000.00	Each	0	\$0.00
Emergency Vehicle Preemption Only	\$10,000.00	Each	0	\$0.00
Pavement				
1.5" Pavement Overlay and Milling	\$7.00	Square Yard	4000	\$28,000.00
New Pavement - Arterial Roads	\$46.00	Square Yard	1000	\$46,000.00
New Pavement - Collector Roads	\$40.00	Square Yard	0	\$0.00
New Pavement - Local Commercial Roads	\$34.00	Square Yard	0	\$0.00
New Pavement - Local Residential Roads	\$29.00	Square Yard	400	\$11,600.00
4" PBD	\$7.25	Linear Foot	800	\$5,800.00
Excavation				
Excavation (Borrow)	\$12.00	Cubic Yard	0	\$0.00
Drainage	ć2 400 00			412 000 00
Inlet/Manhole	\$2,400.00	Each	5	\$12,000.00
Pipe and Trenching	\$55.00	Linear Foot	800	\$44,000.00
Culvert	\$700.00	Linear Foot	0	\$0.00
Pavement Markings			2522	Á= 200 00
4" Pavement Markings	\$2.00	Linear Foot	2600	\$5,200.00
8" Pavement Markings	\$8.00	Linear Foot	0	\$0.00
Miscellaneous	¢40.00			40.00
Guide Rail	\$18.00	Linear Foot	0	\$0.00
Concrete Curb	\$35.00	Linear Foot	1200	\$42,000.00
Bituminous Wedge Curb	\$7.00	Linear Foot	0	\$0.00
Other Miscellaneous	¢200 00	- I	-1	ć4 000 00
Post Mounted Signs	\$200.00	Each	5	\$1,000.00
Other (ADA Ramps)	\$2,500.00	Each	4	\$10,000.00
8.4L-11:	F 00/			\$305,600.00
Mobilization	5.0% 5.0%		uction Total	\$15,280.00
Maintenance and Protection of Traffic	15.0%		uction Total	\$15,280.00 \$45,840.00
Contingency	15.0%		l Construction:	\$382,000.00
Utility Relocation	L	TOLA	i construction:	\$382,000.00
Utility Pole Relocation	\$3,300.00	Each	3	\$9,900.00
Electric Service	\$2,000.00		0	\$9,900.00
Water/ Gas Valves	\$250.00	Each	0	\$0.00
Fire Hydrant Relocation	\$1,000.00	Each Each	1	\$1,000.00
High Tension Electric Poles	\$130,000.00		0	\$1,000.00
Sanitary Manhole	\$130,000.00	Each Each	0	\$0.00
Other	\$5,000.00	Project	4	\$20,000.00
Other	\$3,000.00	Project	Utility Subtotal:	\$30,900.00
Contingency	15.0%	Of LItilit	y Subtotal	\$4,635.00
Contingency	13.076		ity Relocation:	\$35,535.00
Right-of-Way	L	Total Oth	ity Kelocation.	Ş33,353.00
Right-of-Way - Urban	\$150,000.00	Acres	0.25	\$37,500.00
Right-of-Way - Rural	\$120,000.00	Acres	0.23	\$0.00
Construction Easement (75% of ROW)	7120,000.00	Acres	0	\$28,125.00
Structures	\$180,000.00	Each	0	\$28,123.00
Ju detailes	7100,000.00		of-Way Subtotal:	\$65,625.00
Contingency	15.0%		Way Subtotal	\$9,843.75
Containgency	13.0%		Right-of-Way:	\$75,468.75
Engineering	15.0%		uction Total	
Engineering Construction Inspection	10.0%		uction Total	\$57,300.00
· · · · · · · · · · · · · · · · · · ·	10.0%		uction Total	\$38,200.00
Administration and Planning	1.5%			\$5,730.00 \$E04.333.7E
		Iota	al Project Cost:	\$594,233.75

PROJECT CODE: 104B TRANSPORTATION DISTRICT: Western/Southern District

LOCATION:

Church Street (SR 1051) & Route 272

DEFICIENCY:

The current intersection geometry is deficient with 2034 projected traffic volumes.

PROPOSED IMPROVEMENTS:

Construct a Eastbound left turn lane and right turn lane, remove/install two signal poles, curb

ESTIMATED COST SUMMARY:

(Current Year 2010 Dollars)

Construction	382,000
Utility Relocation	45,885
Right-of-Way	43,125
Engineering	43,930
Inspection	30,560
Admin & Planning	5,730
TOTAL	\$551,230

CONSTRUCTION YEAR AND PROJECTED COST:

Construction Year	2019	Inflation Rate: 3.76%
Projected Construction Cost	\$797,320	

PROPOSED FUNDING:

PROJECT SCHEDULE:

				Year
State/Federal	0%	\$0	Secure Funding	2017
Other	50%	\$398,660	Acquire ROW	2018
Impact Fees	50%	\$398,660	Compete Engineering	2018
			Begin Construction	2019

TRANSPORTATION DISTRICT COST:

Western District	100%	\$398,660
Eastern District	0%	\$0
Southern Distict	0%	\$0

Project Number 104B	Done By: BDE		Checked: I	MJR
Description	Cost	Unit	Quantity	Total
Construction Items				
Traffic Signals				
New Signal (4-way)	\$200,000.00	Each	0.5	\$100,000.00
New Signal (3-way)	\$150,000.00	Each	0	\$0.00
Signal Modifications	\$20,000.00	Each	0	\$0.00
Emergency Vehicle Preemption Only	\$10,000.00	Each	0	\$0.00
Pavement	d= 00			4
1.5" Pavement Overlay and Milling	\$7.00	Square Yard	4000	\$28,000.00
New Pavement - Arterial Roads New Pavement - Collector Roads	\$46.00	Square Yard	1000	\$46,000.00
New Pavement - Collector Roads New Pavement - Local Commercial Roads	\$40.00 \$34.00	Square Yard	0	\$0.00 \$0.00
New Pavement - Local Residential Roads	\$29.00	Square Yard Square Yard	400	\$11,600.00
4" PBD	\$7.25	Linear Foot	800	\$5,800.00
Excavation	γ1.23	Linear 100t	800	75,800.00
Excavation (Borrow)	\$12.00	Cubic Yard	0	\$0.00
Drainage	7	Cable Fara	<u> </u>	φο.σσ
Inlet/Manhole	\$2,400.00	Each	5	\$12,000.00
Pipe and Trenching	\$55.00	Linear Foot	800	\$44,000.00
Culvert	\$700.00	Linear Foot	0	\$0.00
Pavement Markings				
4" Pavement Markings	\$2.00	Linear Foot	2600	\$5,200.00
8" Pavement Markings	\$8.00	Linear Foot	0	\$0.00
Miscellaneous				
Guide Rail	\$18.00	Linear Foot	0	\$0.00
Concrete Curb	\$35.00	Linear Foot	1200	\$42,000.00
Bituminous Wedge Curb	\$7.00	Linear Foot	0	\$0.00
Other Miscellaneous	1 4000 001			4
Post Mounted Signs	\$200.00	Each	5	\$1,000.00
Other(ADA Ramps)	\$2,500.00	Each	4 truction Subtotal:	\$10,000.00
Mobilization	5.0%		uction Total	\$305,600.00
Maintenance and Protection of Traffic	5.0%		uction Total	\$15,280.00 \$15,280.00
Contingency	15.0%		uction Total	\$45,840.00
contingency	13.070		I Construction:	\$382,000.00
Utility Relocation				7302,000.00
Utility Pole Relocation	\$3,300.00	Each	3	\$9,900.00
Electric Service	\$2,000.00	Each	0	\$0.00
Water/ Gas Valves	\$250.00	Each	0	\$0.00
Fire Hydrant Relocation	\$1,000.00	Each	0	\$0.00
High Tension Electric Poles	\$130,000.00	Each	0	\$0.00
Sanitary Manhole	\$2,400.00	Each	0	\$0.00
Other	\$5,000.00	Project	6	\$30,000.00
			Utility Subtotal:	\$39,900.00
Contingency	15.0%		y Subtotal	\$5,985.00
Dight of Mov		i otai Utii	lity Relocation:	\$45,885.00
Right-of-Way Right-of-Way - Urban	\$150,000.00	Acres	0.25	\$37,500.00
Right-of-Way - Rural	\$120,000.00	Acres	0.23	\$0.00
Construction Easement (75% of ROW)	ψ120,000.00	Acres	0	\$0.00
Structures	\$180,000.00	Each	0	\$0.00
.	, , , , , , , , , , , , , , , , , , , ,		-of-Way Subtotal:	\$37,500.00
Contingency	15.0%	Of Right-of-Way Subtotal		\$5,625.00
-			Right-of-Way:	\$43,125.00
Engineering	11.5%		uction Total	\$43,930.00
Construction Inspection	8.0%	Of Constr	uction Total	\$30,560.00
Administration and Planning 1.5% Of Construction Total		\$5,730.00		
		Tota	al Project Cost:	\$551,230.00

PROJECT CODE: S05 TRANSPORTATION DISTRICT: Eastern/Western District

LOCATION:

Route 897, west of Route 272

DEFICIENCY:

The current roadway segment is deficient with 2034 projected traffic volumes.

PROPOSED IMPROVEMENTS:

Widen to 12' lanes with 6' shoulders.

ESTIMATED COST SUMMARY:

(Current Year 2010 Dollars)

Construction	731,383
Utility Relocation	474,030
Right-of-Way	0
Engineering	84,109
Inspection	58,511
Admin & Planning	10,971
TOTAL	\$1,359,003

CONSTRUCTION YEAR AND PROJECTED COST:

Construction Year 2034 Inflation Rate: 3.76%

Projected Construction Cost \$3,419,554

PROPOSED FUNDING: PROJECT SCHEDULE:

	_	_		rear
State/Federal	100%	\$3,419,554	Secure Funding	2032
Other	0%	\$0	Acquire ROW	2033
Impact Fees	0%	\$0	Compete Engineering	2033
	•	_	Begin Construction	2034

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TRANSPORTATION DISTRICT COST:

			REIVIARKS:
Western District	0%	\$0	Future PENNDOT Project
Eastern District	0%	\$0	
Southern Distict	0%	\$0	

Project Number S05	Done By: BDE		Checked:	MJR
Description	Cost	Unit	Quantity	Total
Construction Items				
Traffic Signals				
New Signal (4-way)	\$200,000.00	Each	0	\$0.00
New Signal (3-way)	\$150,000.00	Each	0	\$0.00
Signal Modifications	\$20,000.00	Each	0	\$0.00
Emergency Vehicle Preemption Only	\$10,000.00	Each	0	\$0.00
Pavement	1 4-00		- I	4
1.5" Pavement Overlay and Milling	\$7.00	Square Yard	0	\$0.00
New Pavement - Arterial Roads	\$46.00	Square Yard	7111	\$327,106.00
New Pavement - Collector Roads New Pavement - Local Commercial Roads	\$40.00 \$34.00	Square Yard	0	\$0.00 \$0.00
New Pavement - Local Residential Roads	\$29.00	Square Yard Square Yard	0	\$0.00
4" PBD	\$7.25	Linear Foot	16000	\$116,000.00
Excavation	\$7.25	Lilleal Foot	10000	\$110,000.00
Excavation (Borrow)	\$12.00	Cubic Yard	0	\$0.00
Drainage	Ģ12.00	Cubic rara	<u> </u>	Ş0.00
Inlet/Manhole	\$2,400.00	Each	31	\$74,400.00
Pipe and Trenching	\$55.00	Linear Foot	0	\$0.00
Culvert	\$700.00	Linear Foot	0	\$0.00
Pavement Markings			- 1	
4" Pavement Markings	\$2.00	Linear Foot	0	\$0.00
8" Pavement Markings	\$8.00	Linear Foot	0	\$0.00
Miscellaneous				
Guide Rail	\$18.00	Linear Foot	1300	\$23,400.00
Concrete Curb	\$35.00	Linear Foot	1000	\$35,000.00
Bituminous Wedge Curb	\$7.00	Linear Foot	0	\$0.00
Othe <u>r Miscellaneous</u>				
Post Mounted Signs	\$200.00	Each	46	\$9,200.00
Other				\$0.00
	5.00/		truction Subtotal:	\$585,106.00
Mobilization	5.0% 5.0%		uction Total	\$29,255.30
Maintenance and Protection of Traffic	15.0%		uction Total uction Total	\$29,255.30 \$87,765.90
Contingency	15.0%		I Construction:	\$731,382.50
Utility Relocation	L	1014	i Construction.	\$751,562.50
Utility Pole Relocation	\$3,300.00	Each	124	\$409,200.00
Electric Service	\$2,000.00	Each	0	\$0.00
Water/ Gas Valves	\$250.00	Each	0	\$0.00
Fire Hydrant Relocation	\$1,000.00	Each	3	\$3,000.00
High Tension Electric Poles	\$130,000.00	Each	0	\$0.00
Sanitary Manhole	\$2,400.00	Each	0	\$0.00
Other	\$5,000.00	Project	0	\$0.00
			Utility Subtotal:	\$412,200.00
Contingency	15.0%		y Subtotal	\$61,830.00
		Total Util	lity Relocation:	\$474,030.00
Right-of-Way				
Right-of-Way - Urban	\$150,000.00	Acres	0	\$0.00
Right-of-Way - Rural	\$120,000.00	Acres	0	\$0.00
Construction Easement (75% of ROW)	6400 000 00	Acres	0	\$0.00
Structures	\$180,000.00	Each	of Way Subtataly	\$0.00
Continuous	15.0%	Right-of-Way Subtotal:		\$0.00
				\$0.00
Engineering	11.5%	Total Right-of-Way: Of Construction Total		\$0.00
Engineering Construction Inspection	8.0%			\$84,108.99 \$58,510.60
Construction Inspection 8.0% Of Construction Total Administration and Planning 1.5% Of Construction Total		\$10,970.74		
·			\$1,359,002.83	
	L	101	ai rioject Cost:	϶ϫ,϶ͻͻ ͻ,υυ ∠ .δ3

PROJECT CODE: 109A TRANSPORTATION DISTRICT: Eastern/Southern District

LOCATION:

Colonel George Howard Boulevard (SR 1040) & Pepperidge Farm Boulevard (T-902)

DEFICIENCY:

The current intersection geometry is deficient with 2034 projected traffic volumes.

PROPOSED IMPROVEMENTS:

Construct a 2nd northbound left turn lane (Left-Left-Thru-Right configuration).

ESTIMATED COST SUMMARY:

(Current Year 2010 Dollars)

Construction	103,210
Utility Relocation	5,750
Right-of-Way	0
Engineering	11,869
Inspection	8,257
Admin & Planning	1,548
TOTAL	\$130,634

CONSTRUCTION YEAR AND PROJECTED COST:

Construction Year	2019	Inflation Rate: 3.76%
Projected Construction Cost	\$188,954	

PROPOSED FUNDING: PROJECT SCHEDULE:

				Year
State/Federal	0%	\$0	Secure Funding	
Other	0%	\$0	Acquire ROW	
Impact Fees	0%	\$0	Compete Engineering	
	<u> </u>		Begin Construction	
			=	

TRANSPORTATION DISTRICT COST:

			REMARKS:
Western District	0%	\$0	Work to be done by Developer of adjacent
Eastern District	99%	\$0	parcels
Southern Distict	1%	ĊΩ	

Project Number 109A	Done By: BDE		Checked: M	IJR
Description	Cost	Unit	Quantity	Total
Construction Items			-	
Traffic Signals				
New Signal (4-way)	\$200,000.00	Each	0	\$0.00
New Signal (3-way)	\$150,000.00	Each	0	\$0.00
Signal Modifications	\$20,000.00	Each	1	\$20,000.00
Emergency Vehicle Preemption Only	\$10,000.00	Each	0	\$0.00
Pavement				
1.5" Pavement Overlay and Milling	\$7.00	Square Yard	0	\$0.00
New Pavement - Arterial Roads	\$46.00	Square Yard	533	\$24,518.00
New Pavement - Collector Roads	\$40.00	Square Yard	0	\$0.00
New Pavement - Local Commercial Roads	\$34.00	Square Yard	0	\$0.00
New Pavement - Local Residential Roads 4" PBD	\$29.00 \$7.25	Square Yard	0	\$0.00
	\$7.25	Linear Foot	600	\$4,350.00
Excavation Excavation (Borrow)	\$12.00	Cubic Vard	0	¢0.00
` '	\$12.00	Cubic Yard	U	\$0.00
Drainage Inlet/Manhole	\$2,400.00	Each	0	\$0.00
Pipe and Trenching	\$55.00	Linear Foot	0	\$0.00
Culvert	\$700.00	Linear Foot	0	\$0.00
Pavement Markings	\$700.00	Linear 100t	U	\$0.00
4" Pavement Markings	\$2.00	Linear Foot	2600	\$5,200.00
8" Pavement Markings	\$8.00	Linear Foot	0	\$0.00
Miscellaneous	φο.σσ	Linear 1 oot	<u> </u>	φο.σο
Guide Rail	\$18.00	Linear Foot	0	\$0.00
Concrete Curb	\$35.00	Linear Foot	500	\$17,500.00
Bituminous Wedge Curb	\$7.00	Linear Foot	0	\$0.00
Other Miscellaneous				•
Post Mounted Signs	\$200.00	Each	5	\$1,000.00
Other (ADA upgrades)	\$1.00	LS	10000	\$10,000.00
		Cons	truction Subtotal:	\$82,568.00
Mobilization	5.0%	Of Constr	uction Total	\$4,128.40
Maintenance and Protection of Traffic	5.0%		uction Total	\$4,128.40
Contingency	15.0%		uction Total	\$12,385.20
		Tota	l Construction:	\$103,210.00
Utility Relocation	1 40 000 001			
Utility Pole Relocation	\$3,300.00	Each	0	\$0.00
Electric Service	\$2,000.00	Each - ·	0	\$0.00
Water/ Gas Valves	\$250.00	Each	0	\$0.00
Fire Hydrant Relocation	\$1,000.00	Each	0	\$0.00
High Tension Electric Poles Sanitary Manhole	\$130,000.00	Each	0	\$0.00
Other	\$2,400.00	Each	0	\$0.00
Other	\$5,000.00	Project	Utility Subtotal:	\$5,000.00 \$5,000.00
Contingency	15.0%	Of LItilit	y Subtotal	\$5,000.00
Contingency	13.070		lity Relocation:	\$5,750.00
Right-of-Way		Total Oth	ity Neiocation.	\$3,730.00
Right-of-Way - Urban	\$150,000.00	Acres	0	\$0.00
Right-of-Way - Rural	\$120,000.00	Acres	0	\$0.00
Construction Easement (75% of ROW)	Ţ == 3,000.00	Acres	0	\$0.00
Structures	\$180,000.00	Each	0	\$0.00
			-of-Way Subtotal:	\$0.00
Contingency	15.0%	Of Right-of-Way Subtotal		\$0.00
			Right-of-Way:	\$0.00
Engineering	11.5%		uction Total	\$11,869.15
Construction Inspection	8.0%	Of Constr	uction Total	\$8,256.80
Administration and Planning	1.5%	Of Construction Total		\$1,548.15
		Tota	al Project Cost:	\$130,634.10

PROJECT CODE: 109B TRANSPORTATION DISTRICT: Eastern/Southern District

LOCATION:

Colonel George Howard Boulevard (SR 1040) & Pepperidge Farm Boulevard (T-902)

DEFICIENCY:

The current intersection geometry is deficient with 2034 projected traffic volumes.

PROPOSED IMPROVEMENTS:

109B Deleted- Work roled into 109A "Construct a northbound right turn lane."

ESTIMATED COST SUMMARY:

(Current Year 2010 Dollars)

Construction	51,929
Utility Relocation	0
Right-of-Way	0
Engineering	5,972
Inspection	4,154
Admin & Planning	779
TOTAL	\$62,834

CONSTRUCTION YEAR AND PROJECTED COST:

Construction Year	2034	Inflation Rate: 3.76%
Projected Construction Cost	\$0	

PROPOSED FUNDING: PROJECT SCHEDULE:

	_			Year
State/Federal	0%	\$0	Secure Funding	2032
Other	0%	\$0	Acquire ROW	2033
Impact Fees	0%	\$0	Compete Engineering	2033
			Begin Construction	2034

TRANSPORTATION DISTRICT COST:

Western District	0%	\$0
Eastern District	99%	\$0
Southern Distict	1%	\$0

Project Number 109B	Done By: BDE		Checked: M	IJR
Description	Cost	Unit	Quantity	Total
Construction Items			-	
Traffic Signals				
New Signal (4-way)	\$200,000.00	Each	0	\$0.00
New Signal (3-way)	\$150,000.00	Each	0	\$0.00
Signal Modifications	\$20,000.00	Each	1	\$20,000.00
Emergency Vehicle Preemption Only	\$10,000.00	Each	0	\$0.00
Pave <u>ment</u>				
1.5" Pavement Overlay and Milling	\$7.00	Square Yard	0	\$0.00
New Pavement - Arterial Roads	\$46.00	Square Yard	333	\$15,318.00
New Pavement - Collector Roads	\$40.00	Square Yard	0	\$0.00
New Pavement - Local Commercial Roads	\$34.00	Square Yard	0	\$0.00
New Pavement - Local Residential Roads	\$29.00	Square Yard	0	\$0.00
4" PBD	\$7.25	Linear Foot	300	\$2,175.00
Excavation	1 4.000		T	
Excavation (Borrow)	\$12.00	Cubic Yard	0	\$0.00
Drainage	1 40.00.00			1
Inlet/Manhole	\$2,400.00	Each	0	\$0.00
Pipe and Trenching	\$55.00	Linear Foot	0	\$0.00
Culvert	\$700.00	Linear Foot	0	\$0.00
Pavement Markings			T	
4" Pavement Markings	\$2.00	Linear Foot	400	\$800.00
8" Pavement Markings	\$8.00	Linear Foot	0	\$0.00
Miscellaneous	1 440.00			40.00
Guide Rail	\$18.00	Linear Foot	0	\$0.00
Concrete Curb	\$35.00	Linear Foot	0	\$0.00
Bituminous Wedge Curb	\$7.00	Linear Foot	0	\$0.00
Other Miscellaneous	1 4000 001			1
Post Mounted Signs	\$200.00	Each	0	\$0.00
Removal of Channelizing Island	\$25.00	SY	130	\$3,250.00
	5.00/		truction Subtotal:	\$41,543.00
Mobilization	5.0%		uction Total	\$2,077.15
Maintenance and Protection of Traffic	5.0%		uction Total	\$2,077.15
Contingency	15.0%		uction Total	\$6,231.45
Hallian Delegation		iota	l Construction:	\$51,928.75
Utility Relocation Utility Pole Relocation	\$3,300.00	Гась	0	¢0.00
Electric Service	\$2,000.00	Each	0	\$0.00
Water/ Gas Valves	\$2,000.00	Each	0	\$0.00
Fire Hydrant Relocation	\$1,000.00	Each	0	\$0.00
High Tension Electric Poles	\$1,000.00	Each	0	\$0.00
Sanitary Manhole	\$2,400.00	Each	0	\$0.00
·		Each	0	\$0.00
Other	\$5,000.00	Project	Utility Subtatal	\$0.00
Contingonal	15.0%	Of LIHILI	Utility Subtotal: y Subtotal	\$0.00
Contingency	15.0%		lity Relocation:	\$0.00 \$0.00
Dight of May		TOTAL OTL	ity Kelocation.	\$0.00
Right-of-Way Right-of-Way - Urban	\$150,000.00	Acros	ا ما	¢0.00
Right-of-Way - Orban Right-of-Way - Rural	\$150,000.00	Acres	0	\$0.00 \$0.00
Construction Easement (75% of ROW)	\$120,000.00	Acres		
Structures	\$180,000.00	Acres	0	\$0.00
Structures	\$180,000.00	Each Right	of-Way Subtotal:	\$0.00
Contingonal	45.00/			\$0.00
Contingency	15.0%		Way Subtotal	\$0.00
Fusing suing	44 50/		Right-of-Way:	\$0.00
Engineering	11.5%		uction Total	\$5,971.81
Construction Inspection	8.0%		uction Total	\$4,154.30
Administration and Planning	1.5%		uction Total	\$778.93
		lot	al Project Cost:	\$62,833.79

PROJECT CODE: 109C TRANSPORTATION DISTRICT: Eastern/Southern District

LOCATION:

Colonel George Howard Boulevard (SR 1040) & Pepperidge Farm Boulevard (T-902)

DEFICIENCY:

The current intersection geometry is deficient with 2034 projected traffic volumes.

PROPOSED IMPROVEMENTS:

Construct dual southbound left turn lanes. Maintain existing SB RT Lane and Thru lane.

Maintain exisitng signals and install median to create protected EB RT lane

ESTIMATED COST SUMMARY:

(Current Year 2010 Dollars)

Construction	310,568
Utility Relocation	5,750
Right-of-Way	0
Engineering	35,715
Inspection	24,845
Admin & Planning	4,659
TOTAL	\$381,537

CONSTRUCTION YEAR AND PROJECTED COST:

Construction Year	2019	Inflation Rate: 3.76%
Projected Construction Cost	\$551,869	

PROPOSED FUNDING: PROJECT SCHEDULE:

	_			Year
State/Federal	0%	\$0	Secure Funding	
Other	0%	\$0	Acquire ROW	
Impact Fees	0%	\$0	Compete Engineering	
			Begin Construction	
	CT COCT		-	

REMARKS:

TRANSPORTATION DISTRICT COST:

Western District	0%	\$0	Work to be done by Developer of adjacent
Eastern District	99%	\$0	parcels
Southern Distict	1%	\$0	

Project Number 109C	Done By: BDE		Checked: I	MJR
Description	Cost	Unit	Quantity	Total
Construction Items				
Traffic Signals				
New Signal (4-way)	\$200,000.00	Each	0	\$0.00
New Signal (3-way)	\$150,000.00	Each	0	\$0.00
Signal Modifications	\$20,000.00	Each	1	\$20,000.00
Emergency Vehicle Preemption Only	\$10,000.00	Each	0	\$0.00
Pave <u>ment</u>				
1.5" Pavement Overlay and Milling	\$7.00	Square Yard	0	\$0.00
New Pavement - Arterial Roads (Concrete)	\$70.00	Square Yard	1600	\$112,000.00
New Pavement - Collector Roads	\$40.00	Square Yard	0	\$0.00
New Pavement - Local Commercial Roads	\$34.00	Square Yard	0	\$0.00
New Pavement - Local Residential Roads 4" PBD	\$29.00	Square Yard	0	\$0.00
Excavation	\$7.25	Linear Foot	1000	\$7,250.00
Excavation (Borrow)	\$12.00	Cubic Yard	0	\$0.00
Drainage	Ş12.00	Cubic raru	U	Ş0.00
Inlet/Manhole	\$2,400.00	Each	0	\$0.00
Pipe and Trenching	\$55.00	Linear Foot	0	\$0.00
Culvert	\$700.00	Linear Foot	0	\$0.00
Pavement Markings			· · · · · · · · · · · · · · · · · · ·	,
4" Pavement Markings	\$2.00	Linear Foot	4400	\$8,800.00
8" Pavement Markings	\$8.00	Linear Foot	0	\$0.00
Miscellaneous				
Guide Rail	\$18.00	Linear Foot	0	\$0.00
Concrete Curb (Vertical and Mountable)	\$35.00	Linear Foot	2000	\$70,000.00
Bituminous Wedge Curb	\$7.00	Linear Foot	0	\$0.00
Other Miscellaneous				
Post Mounted Signs	\$200.00	Each	10	\$2,000.00
ADA Upgrades	\$1.00	LS	10,000	\$10,000.00
B. G. L. Ulinania	F 00/		truction Subtotal:	\$230,050.00
Mobilization Maintenance and Protection of Traffic	5.0% 5.0%		uction Total uction Total	\$11,502.50
Contingency	25.0%		uction Total	\$11,502.50 \$57,512.50
Contingency	25.076		l Construction:	\$310,567.50
Utility Relocation	L	1014	i construction.	7510,507.50
Utility Pole Relocation	\$3,300.00	Each	0	\$0.00
Electric Service	\$2,000.00	Each	0	\$0.00
Water/ Gas Valves	\$250.00	Each	0	\$0.00
Fire Hydrant Relocation	\$1,000.00	Each	0	\$0.00
High Tension Electric Poles	\$130,000.00	Each	0	\$0.00
Sanitary Manhole	\$2,400.00	Each	0	\$0.00
Other	\$5,000.00	Project	1	\$5,000.00
			Utility Subtotal:	\$5,000.00
Contingency	15.0%		y Subtotal	\$750.00
		Total Util	lity Relocation:	\$5,750.00
Right-of-Way Right-of-Way - Urban	¢1E0 000 00	A a.r.a.a	ا ما	¢0.00
Right-of-Way - Rural	\$150,000.00 \$120,000.00	Acres	0	\$0.00
Construction Easement (75% of ROW)	\$120,000.00	Acres	0	\$0.00 \$0.00
Structures	\$180,000.00	Acres Each	0	\$0.00
on actures	7100,000.00		-of-Way Subtotal:	\$0.00
Contingency	15.0%		-Way Subtotal	\$0.00
	13.070		Right-of-Way:	\$0.00
Engineering	11.5%		uction Total	\$35,715.26
Construction Inspection	8.0%		uction Total	\$24,845.40
Administration and Planning	1.5%		uction Total	\$4,658.51
ŭ			al Project Cost:	\$381,536.68

PROJECT CODE: 109D TRANSPORTATION DISTRICT: Eastern/Southern District

LOCATION:

Colonel George Howard Boulevard (SR 1040) & Pepperidge Farm Boulevard (T-902)

DEFICIENCY:

The current intersection geometry is deficient with 2034 projected traffic volumes.

PROPOSED IMPROVEMENTS:

IO9D Deleted- Work roled into IO9C "Construct a southbound right turn lane."

Existing SB Right Turn Lane can be maintained following Cocalico Commons HOP work.

ESTIMATED COST SUMMARY:

(Current Year 2010 Dollars)

Construction	48,366
Utility Relocation	0
Right-of-Way	0
Engineering	5,562
Inspection	3,869
Admin & Planning	725
TOTAL	\$58,523

CONSTRUCTION YEAR AND PROJECTED COST:

Construction Year	2034	Inflation Rate: 3.76%
Projected Construction Cost	\$0	

PROPOSED FUNDING: PROJECT SCHEDULE:

				i cai
State/Federal	0%	\$0	Secure Funding	2032
Other	0%	\$0	Acquire ROW	2033
Impact Fees	0%	\$0	Compete Engineering	2033
			Begin Construction	2034

REMARKS:

Vaar

TRANSPORTATION DISTRICT COST:

Western District	0%	\$0
Eastern District	99%	\$0
Southern Distict	1%	\$0

Project Number 109D	Done By: BDE	Checked: MJR		MJR
Description	Cost	Unit	Quantity	Total
Construction Items				
Traffic Signals				
New Signal (4-way)	\$200,000.00	Each	0	\$0.00
New Signal (3-way)	\$150,000.00	Each	0	\$0.00
Signal Modifications	\$20,000.00	Each	1	\$20,000.00
Emergency Vehicle Preemption Only	\$10,000.00	Each	0	\$0.00
Pave <u>ment</u>				
1.5" Pavement Overlay and Milling	\$7.00	Square Yard	0	\$0.00
New Pavement - Arterial Roads	\$46.00	Square Yard	333	\$15,318.00
New Pavement - Collector Roads	\$40.00	Square Yard	0	\$0.00
New Pavement - Local Commercial Roads	\$34.00	Square Yard	0	\$0.00
New Pavement - Local Residential Roads	\$29.00	Square Yard	0	\$0.00
4" PBD	\$7.25	Linear Foot	300	\$2,175.00
Excavation	1 4.000		·	
Excavation (Borrow)	\$12.00	Cubic Yard	0	\$0.00
Drainage				40.00
Inlet/Manhole	\$2,400.00	Each	0	\$0.00
Pipe and Trenching	\$55.00	Linear Foot	0	\$0.00
Culvert	\$700.00	Linear Foot	0	\$0.00
Pavement Markings	¢2.00		400	4000.00
4" Pavement Markings	\$2.00	Linear Foot	400	\$800.00
8" Pavement Markings	\$8.00	Linear Foot	0	\$0.00
Miscellaneous	Ć40.00			¢0.00
Guide Rail	\$18.00	Linear Foot	0	\$0.00
Concrete Curb	\$35.00	Linear Foot	0	\$0.00
Bituminous Wedge Curb	\$7.00	Linear Foot	0	\$0.00
Other Miscellaneous	¢200.00		2	¢400.00
Post Mounted Signs	\$200.00	Each	2	\$400.00
		Como	turretien Cribtetel	\$0.00
Mobilization	5.0%		truction Subtotal: uction Total	\$38,693.00 \$1,934.65
Maintenance and Protection of Traffic	5.0%		uction Total	\$1,934.65
	15.0%		uction Total	\$5,803.95
Contingency	15.0%		l Construction:	\$48,366.25
Utility Relocation	<u>.</u>	TOLA	i Constituction.	\$ 4 6,300.23
Utility Pole Relocation	\$3,300.00	Each	0	\$0.00
Electric Service	\$2,000.00	Each	0	\$0.00
Water/ Gas Valves	\$250.00	Each	0	\$0.00
Fire Hydrant Relocation	\$1,000.00	Each	0	\$0.00
High Tension Electric Poles	\$130,000.00	Each	0	\$0.00
Sanitary Manhole	\$2,400.00	Each	0	\$0.00
Other	\$5,000.00	Project	0	\$0.00
other	\$3,000.00	FTOJECT	Utility Subtotal:	\$0.00
Contingency	15.0%	Of Litilit	y Subtotal	\$0.00
contingency	13.070		ity Relocation:	\$0.00
Right-of-Way	ı	Total Oth	ity itclocation.	Ş0.00
Right-of-Way - Urban	\$150,000.00	Acres	0	\$0.00
Right-of-Way - Rural	\$120,000.00	Acres	0	\$0.00
Construction Easement (75% of ROW)	Ψ220,000.00	Acres	0	\$0.00
Structures	\$180,000.00	Each	0	\$0.00
	+,000.00		of-Way Subtotal:	\$0.00
Contingency	15.0%		Way Subtotal	\$0.00
1	13.576		Right-of-Way:	\$0.00
Engineering	11.5%		uction Total	\$5,562.12
Construction Inspection	8.0%		uction Total	\$3,869.30
Administration and Planning	1.5%		uction Total	\$725.49
, a	1.570		al Project Cost:	\$58,523.16
		100	ar i roject cost.	470,7 2 3.10

PROJECT CODE: 110 TRANSPORTATION DISTRICT: Eastern/Southern District

LOCATION:

Colonel George Howard Boulevard (SR 1040) & Reamstown Road (T-700)

DEFICIENCY:

The current intersection is deficient with 2034 projected traffic volumes.

PROPOSED IMPROVEMENTS:

Install a traffic signal.

ESTIMATED COST SUMMARY:

(Current Year 2010 Dollars)

Construction	187,500
Utility Relocation	0
Right-of-Way	0
Engineering	21,563
Inspection	15,000
Admin & Planning	2,813
TOTAL	\$226.875

CONSTRUCTION YEAR AND PROJECTED COST:

Construction Year	2027	Inflation Rate: 3.76%
Projected Construction Cost	\$440,886	

PROPOSED FUNDING:

PROJECT SCHEDULE:

				Year
State/Federal	50%	\$220,443	Secure Funding	2025
Other	0%	\$0	Acquire ROW	2026
Impact Fees	50%	\$220,443	Compete Engineering	2026
			Begin Construction	2027

TRANSPORTATION DISTRICT COST:

Western District	0%	\$0
Eastern District	99%	\$218,238
Southern Distict	1%	\$2,204

Project Number I10	Done By: BDE	Checked: M.		MJR
Description	Cost	Unit	Quantity	Total
Construction Items				
Traffic Signals				
New Signal (4-way)	\$200,000.00	Each	0	\$0.00
New Signal (3-way)	\$150,000.00	Each	1	\$150,000.00
Signal Modifications	\$20,000.00	Each	0	\$0.00
Emergency Vehicle Preemption Only	\$10,000.00	Each	0	\$0.00
Pavement	1 4-00			
1.5" Pavement Overlay and Milling	\$7.00	Square Yard	0	\$0.00
New Pavement - Arterial Roads	\$46.00	Square Yard	0	\$0.00
New Pavement - Collector Roads New Pavement - Local Commercial Roads	\$40.00 \$34.00	Square Yard	0	\$0.00
New Pavement - Local Residential Roads	\$29.00	Square Yard Square Yard	0	\$0.00 \$0.00
4" PBD	\$7.25	Linear Foot	0	\$0.00
Excavation	Ϋ1.23	Linear 100t	U U	٥٥.٥٥
Excavation (Borrow)	\$12.00	Cubic Yard	0	\$0.00
Drainage	7-2-3-0	Cable Fara	<u> </u>	φο.σο
Inlet/Manhole	\$2,400.00	Each	0	\$0.00
Pipe and Trenching	\$55.00	Linear Foot	0	\$0.00
Culvert	\$700.00	Linear Foot	0	\$0.00
Pavement Markings				
4" Pavement Markings	\$2.00	Linear Foot	0	\$0.00
8" Pavement Markings	\$8.00	Linear Foot	0	\$0.00
Miscellaneous				
Guide Rail	\$18.00	Linear Foot	0	\$0.00
Concrete Curb	\$35.00	Linear Foot	0	\$0.00
Bituminous Wedge Curb	\$7.00	Linear Foot	0	\$0.00
Other Miscellaneous			1 -1	
Post Mounted Signs	\$200.00	Each	0	\$0.00
		Cons	truction Subtotal:	\$0.00 \$150,000.00
Mobilization	5.0%		uction Total	\$150,000.00
Maintenance and Protection of Traffic	5.0%		uction Total	\$7,500.00
Contingency	15.0%		uction Total	\$22,500.00
		Total Con		\$187,500.00
Utility Relocation				Ψ=0.7000.00
Utility Pole Relocation	\$3,300.00	Each	0	\$0.00
Electric Service	\$2,000.00	Each	0	\$0.00
Water/ Gas Valves	\$250.00	Each	0	\$0.00
Fire Hydrant Relocation	\$1,000.00	Each	0	\$0.00
High Tension Electric Poles	\$130,000.00	Each	0	\$0.00
Sanitary Manhole	\$2,400.00	Each	0	\$0.00
Other	\$5,000.00	Project	0	\$0.00
	45.00/	0(1111111	Utility Subtotal:	\$0.00
Contingency	15.0%		y Subtotal lity Relocation:	\$0.00
Right-of-Way	<u>l</u>	TOTAL OTL	ity Kelocation:	\$0.00
Right-of-Way - Urban	\$150,000.00	Acres	0	\$0.00
Right-of-Way - Rural	\$120,000.00	Acres	0	\$0.00
Construction Easement (75% of ROW)	Ψ==0,000.00	Acres	0	\$0.00
Structures	\$180,000.00	Each	0	\$0.00
			-of-Way Subtotal:	\$0.00
Contingency	15.0%		-Way Subtotal	\$0.00
	<u> </u>		Right-of-Way:	\$0.00
Engineering	11.5%		uction Total	\$21,562.50
Construction Inspection	8.0%	Of Constr	uction Total	\$15,000.00
Administration and Planning	1.5%		uction Total	\$2,812.50
		Tota	al Project Cost:	\$226,875.00

TRANSPORTATION DISTRICT: Eastern/Western/Southern District PROJECT CODE: 111B

LOCATION:

Colonel George Howard Boulevard (SR 1040) / Denver Road (T-901) & Route 272

DEFICIENCY:

The current intersection geometry is deficient with 2034 projected traffic volumes.

PROPOSED IMPROVEMENTS:

Prohibit left turns and thru movements exiting the eastbound approach. Project I30 is required prerequisite or concurrently.

ESTIMATED COST SUMMARY:

(Current Year 2010 Dollars)

Construction	253,250
Utility Relocation	0
Right-of-Way	0
Engineering	29,124
Inspection	20,260
Admin & Planning	3,799
TOTAL	\$306,433

CONSTRUCTION YEAR AND PROJECTED COST:

Construction Year	2034	Inflation Rate: 3.76%
Projected Construction Cost	\$771,052	

Projected Construction Cost

PROJECT SCHEDULE:

				Year
State/Federal	50%	\$385,526	Secure Funding	2032
Other	0%	\$0	Acquire ROW	2033
Impact Fees	50%	\$385,526	Compete Engineering	2033
			Begin Construction	2034

TRANSPORTATION DISTRICT COST:

PROPOSED FUNDING:

Western District	1%	\$3,855
Eastern District	98%	\$377,816
Southern Distict	1%	\$3,855

Project Number I11B	Done By: BDE	Checked: MJR		MJR
Description	Cost	Unit	Quantity	Total
Construction Items				
Traffic Signals				
New Signal (4-way)	\$200,000.00	Each	1	\$200,000.00
New Signal (3-way)	\$150,000.00	Each	0	\$0.00
Signal Modifications	\$20,000.00	Each	0	\$0.00
Emergency Vehicle Preemption Only	\$10,000.00	Each	0	\$0.00
Pavement	1 +=1			
1.5" Pavement Overlay and Milling	\$7.00	Square Yard	0	\$0.00
New Pavement - Arterial Roads	\$46.00	Square Yard	0	\$0.00
New Pavement - Collector Roads New Pavement - Local Commercial Roads	\$40.00 \$34.00	Square Yard	0	\$0.00
New Pavement - Local Residential Roads	\$29.00	Square Yard Square Yard	0	\$0.00 \$0.00
4" PBD	\$7.25	Linear Foot	0	\$0.00
Excavation	Ϋ1.23	Linear 100t	U	٧٥.٥٥
Excavation (Borrow)	\$12.00	Cubic Yard	0	\$0.00
Drainage	7==:00	Cable Fara	<u> </u>	φο.σσ
Inlet/Manhole	\$2,400.00	Each	0	\$0.00
Pipe and Trenching	\$55.00	Linear Foot	0	\$0.00
Culvert	\$700.00	Linear Foot	0	\$0.00
Pavement Markings				
4" Pavement Markings	\$2.00	Linear Foot	1300	\$2,600.00
8" Pavement Markings	\$8.00	Linear Foot	0	\$0.00
Miscellaneous				
Guide Rail	\$18.00	Linear Foot	0	\$0.00
Concrete Curb	\$35.00	Linear Foot	0	\$0.00
Bituminous Wedge Curb	\$7.00	Linear Foot	0	\$0.00
Other Miscellaneous	1 4000 001		T _T	
Post Mounted Signs	\$200.00	Each	0	\$0.00
		Cons	truction Subtotal:	\$0.00 \$202,600.00
Mobilization	5.0%		uction Total	\$10,130.00
Maintenance and Protection of Traffic	5.0%		uction Total	\$10,130.00
Contingency	15.0%		uction Total	\$30,390.00
				\$253,250.00
Utility Relocation	L			+
Utility Pole Relocation	\$3,300.00	Each	0	\$0.00
Electric Service	\$2,000.00	Each	0	\$0.00
Water/ Gas Valves	\$250.00	Each	0	\$0.00
Fire Hydrant Relocation	\$1,000.00	Each	0	\$0.00
High Tension Electric Poles	\$130,000.00	Each	0	\$0.00
Sanitary Manhole	\$2,400.00	Each	0	\$0.00
Other	\$5,000.00	Project	0	\$0.00
	45.00/	0(1111111	Utility Subtotal:	\$0.00
Contingency	15.0%		y Subtotal	\$0.00
Right-of-Way		TOTAL OTL	lity Relocation:	\$0.00
Right-of-Way - Urban	\$150,000.00	Acres	0	\$0.00
Right-of-Way - Rural	\$120,000.00	Acres	0	\$0.00
Construction Easement (75% of ROW)	Ţ==0,000.00	Acres	0	\$0.00
Structures	\$180,000.00	Each	0	\$0.00
	<u> </u>		-of-Way Subtotal:	\$0.00
Contingency	15.0%		-Way Subtotal	\$0.00
•			Right-of-Way:	\$0.00
Engineering	11.5%		uction Total	\$29,123.75
Construction Inspection	8.0%	Of Constr	uction Total	\$20,260.00
Administration and Planning	1.5%			\$3,798.75
		Tota	al Project Cost:	\$306,432.50

PROJECT CODE: 111C TRANSPORTATION DISTRICT: Eastern/Western/Southern District

LOCATION:

Colonel George Howard Boulevard (SR 1040) / Denver Road (T-901) & Route 272

DEFICIENCY:

The current intersection geometry is deficient with 2034 projected traffic volumes.

PROPOSED IMPROVEMENTS:

Construct a 2nd northbound right turn lane.

ESTIMATED COST SUMMARY:

(Current Year 2010 Dollars)

Construction	51,491
Utility Relocation	0
Right-of-Way	0
Engineering	5,921
Inspection	4,119
Admin & Planning	772
TOTAL	\$62,304

CONSTRUCTION YEAR AND PROJECTED COST:

Construction Year 2029 Infla	lation Rate: 3.76%
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Projected Construction Cost \$130,352

PROPOSED FUNDING:

PROJECT SCHEDULE:

				Year
State/Federal	50%	\$65,176	Secure Funding	2027
Other	0%	\$0	Acquire ROW	2028
Impact Fees	50%	\$65,176	Compete Engineering	2028
			Begin Construction	2029

TRANSPORTATION DISTRICT COST:

Western District	1%	\$652
Eastern District	98%	\$63,873
Southern Distict	1%	\$652

Project Number I11C	Done By: BDE		Checked: N	MJR
Description	Cost	Unit	Quantity	Total
Construction Items			-	
Traffic Signals				
New Signal (4-way)	\$200,000.00	Each	0	\$0.00
New Signal (3-way)	\$150,000.00	Each	0	\$0.00
Signal Modifications	\$20,000.00	Each	1	\$20,000.00
Emergency Vehicle Preemption Only	\$10,000.00	Each	0	\$0.00
Pavement	1		Г	
1.5" Pavement Overlay and Milling	\$7.00	Square Yard	0	\$0.00
New Pavement - Arterial Roads	\$46.00	Square Yard	333	\$15,318.00
New Pavement - Collector Roads New Pavement - Local Commercial Roads	\$40.00 \$34.00	Square Yard	0	\$0.00
New Pavement - Local Residential Roads	\$29.00	Square Yard Square Yard	0	\$0.00 \$0.00
4" PBD	\$7.25	Linear Foot	300	\$2,175.00
Excavation	Ψ1.23	Linearroot	300	\$2,173.00
Excavation (Borrow)	\$12.00	Cubic Yard	0	\$0.00
Drainage	,		<u> </u>	φ0.00
Inlet/Manhole	\$2,400.00	Each	0	\$0.00
Pipe and Trenching	\$55.00	Linear Foot	0	\$0.00
Culvert	\$700.00	Linear Foot	0	\$0.00
Pavement Markings				
4" Pavement Markings	\$2.00	Linear Foot	400	\$800.00
8" Pavement Markings	\$8.00	Linear Foot	0	\$0.00
Miscellaneous				
Guide Rail	\$18.00	Linear Foot	0	\$0.00
Concrete Curb	\$35.00	Linear Foot	0	\$0.00
Bituminous Wedge Curb	\$7.00	Linear Foot	0	\$0.00
Other Miscellaneous	¢200.00			4400.00
Post Mounted Signs Removal of Channelizing Island	\$200.00 \$25.00	Each SY	100	\$400.00 \$2,500.00
Removal of Channelizing Island	\$25.00		truction Subtotal:	\$41,193.00
Mobilization	5.0%		uction Total	\$2,059.65
Maintenance and Protection of Traffic	5.0%		uction Total	\$2,059.65
Contingency	15.0%		uction Total	\$6,178.95
,				\$51,491.25
Utility Relocation	•			
Utility Pole Relocation	\$3,300.00	Each	0	\$0.00
Electric Service	\$2,000.00	Each	0	\$0.00
Water/ Gas Valves	\$250.00	Each	0	\$0.00
Fire Hydrant Relocation	\$1,000.00	Each	0	\$0.00
High Tension Electric Poles	\$130,000.00	Each - ·	0	\$0.00
Sanitary Manhole	\$2,400.00	Each	0	\$0.00
Other	\$5,000.00	Project	Utility Subtotal:	\$0.00 \$0.00
Contingency	15.0%	Of Litilit	y Subtotal	\$0.00
Contingency	13.070		lity Relocation:	\$0.00
Right-of-Way	L	Total Oth	ney nerocation.	Ş0.00
Right-of-Way - Urban	\$150,000.00	Acres	0	\$0.00
Right-of-Way - Rural	\$120,000.00	Acres	0	\$0.00
Construction Easement (75% of ROW)		Acres	0	\$0.00
Structures	\$180,000.00	Each	0	\$0.00
			-of-Way Subtotal:	\$0.00
Contingency	15.0%		-Way Subtotal	\$0.00
				\$0.00
Engineering	11.5%		uction Total	\$5,921.49
Construction Inspection	8.0%			\$4,119.30
Administration and Planning	1.5%			\$772.37
		IOt	ai Project Cost:	\$62,304.41

PROJECT CODE: I11D TRANSPORTATION DISTRICT: Eastern/Western/Southern District

LOCATION:

Colonel George Howard Boulevard (SR 1040) / Denver Road (T-901) & Route 272

DEFICIENCY:

The current intersection geometry is deficient with 2034 projected traffic volumes.

PROPOSED IMPROVEMENTS:

Construct a 2nd westbound right turn lane.

ESTIMATED COST SUMMARY:

(Current Year 2010 Dollars)

Construction	60,679
Utility Relocation	0
Right-of-Way	0
Engineering	6,978
Inspection	4,854
Admin & Planning	910
TOTAL	\$73,421

CONSTRUCTION YEAR AND PROJECTED COST:

Construction Year	2029	Inflation Rate: 3.76%
Projected Construction Cost	\$153,611	

PROPOSED FUNDING:

PROJECT SCHEDULE:

				Year
State/Federal	50%	\$76,805	Secure Funding	2027
Other	0%	\$0	Acquire ROW	2028
Impact Fees	50%	\$76,805	Compete Engineering	2028
			Begin Construction	2029

TRANSPORTATION DISTRICT COST:

Western District	1%	\$768
Eastern District	98%	\$75,269
Southern Distict	1%	\$768

Project Number I11D	Done By: BDE		Checked: I	MJR
Description	Cost	Unit	Quantity	Total
Construction Items				
Traffic Signals				
New Signal (4-way)	\$200,000.00	Each	0	\$0.00
New Signal (3-way)	\$150,000.00	Each	0	\$0.00
Signal Modifications	\$20,000.00	Each	1	\$20,000.00
Emergency Vehicle Preemption Only	\$10,000.00	Each	0	\$0.00
Pavement				
1.5" Pavement Overlay and Milling	\$7.00	Square Yard	0	\$0.00
New Pavement - Arterial Roads	\$46.00	Square Yard	333	\$15,318.00
New Pavement - Collector Roads	\$40.00	Square Yard	0	\$0.00
New Pavement - Local Commercial Roads	\$34.00	Square Yard	0	\$0.00
New Pavement - Local Residential Roads 4" PBD	\$29.00	Square Yard	0	\$0.00
Excavation	\$7.25	Linear Foot	300	\$2,175.00
Excavation (Borrow)	\$12.00	Cubic Yard	0	\$0.00
Drainage	\$12.00	Cubic faru	U	\$0.00
Inlet/Manhole	\$2,400.00	Each	0	\$0.00
Pipe and Trenching	\$55.00	Linear Foot	0	\$0.00
Culvert	\$700.00	Linear Foot	0	\$0.00
Pavement Markings	7.00.00		<u> </u>	Ψ 0.00
4" Pavement Markings	\$2.00	Linear Foot	400	\$800.00
8" Pavement Markings	\$8.00	Linear Foot	0	\$0.00
Miscellaneous			•	•
Guide Rail	\$18.00	Linear Foot	0	\$0.00
Concrete Curb	\$35.00	Linear Foot	0	\$0.00
Bituminous Wedge Curb	\$7.00	Linear Foot	0	\$0.00
Other Miscellaneous				
Post Mounted Signs	\$200.00	Each	0	\$0.00
Removal of Channelizing Island	\$25.00	SY	410	\$10,250.00
			truction Subtotal:	\$48,543.00
Mobilization	5.0%		uction Total	\$2,427.15
Maintenance and Protection of Traffic	5.0%		uction Total	\$2,427.15
Contingency	15.0%			\$7,281.45
Utility Relocation	ļ	1014	i Construction:	\$60,678.75
Utility Pole Relocation	\$3,300.00	Each	0	\$0.00
Electric Service	\$2,000.00	Each	0	\$0.00
Water/ Gas Valves	\$250.00	Each	0	\$0.00
Fire Hydrant Relocation	\$1,000.00	Each	0	\$0.00
High Tension Electric Poles	\$130,000.00	Each	0	\$0.00
Sanitary Manhole	\$2,400.00	Each	0	\$0.00
Other	\$5,000.00	Project	0	\$0.00
		•	Utility Subtotal:	\$0.00
Contingency	15.0%	Of Utilit	y Subtotal	\$0.00
		Total Util	ity Relocation:	\$0.00
Righ <u>t-of-Way</u>				
Right-of-Way - Urban	\$150,000.00	Acres	0	\$0.00
Right-of-Way - Rural	\$120,000.00	Acres	0	\$0.00
Construction Easement (75% of ROW)	4400 000 00	Acres	0	\$0.00
Structures	\$180,000.00	Each	0	\$0.00
	45.00/		of-Way Subtotal:	\$0.00
Contingency 15.0% Of Right-of-Way Subtotal Total Right-of-Way:		\$0.00		
Engineering	44 50/			\$0.00
Engineering Construction Inspection	11.5%		uction Total	\$6,978.06
Construction Inspection Administration and Planning	8.0% 1.5%			\$4,854.30
Auministration and Planning	1.5%			\$910.18
	ļ	100	ai Project Cost:	\$73,421.29

PROJECT CODE: 118 TRANSPORTATION DISTRICT: Eastern/Western District

LOCATION:

Route 272 & Pepperidge Farm Driveway

DEFICIENCY:

The current intersection geometry is deficient with 2034 projected traffic volumes.

PROPOSED IMPROVEMENTS:

Realign and Signalize with Route 272 & Hill Road (T-846).

ESTIMATED COST SUMMARY:

(Current Year 2010 Dollars)

Construction	581,175
Utility Relocation	71,990
Right-of-Way	0
Engineering	66,835
Inspection	46,494
Admin & Planning	8,718
TOTAL	\$775.212

CONSTRUCTION YEAR AND PROJECTED COST:

Construction Year	2029	Inflation Rate: 3.76%

Projected Construction Cost \$1,621,883

PROPOSED FUNDING: PROJECT SCHEDULE:

				Year
State/Federal	0%	\$0	Secure Funding	2027
Other	0%	\$0	Acquire ROW	2028
Impact Fees	100%	\$1,621,883	Compete Engineering	2028
		=	Begin Construction	2029

TRANSPORTATION DISTRICT COST:

Western District	0%	so s	REMARKS: Road to be built when site is developed
Eastern District	100%	\$1,621,883	adjacent to relocated road. Right-of-way
Southern Distict	0%	\$0	to be acquired through the land development
			process.
			Ownership of Turnpike Bridge to remain
			with Turnpike.

Project Number I18	Done By: BDE		Checked: I	MJR
Description	Cost	Unit	Quantity	Total
Construction Items				
Traffic Signals				
New Signal (4-way)	\$200,000.00	Each	0	\$0.00
New Signal (3-way)	\$150,000.00	Each	0	\$0.00
Signal Modifications	\$20,000.00	Each	4	\$80,000.00
Emergency Vehicle Preemption Only	\$10,000.00	Each	0	\$0.00
Pavement				
1.5" Pavement Overlay and Milling	\$7.00	Square Yard	0	\$0.00
New Pavement - Arterial Roads	\$46.00	Square Yard	0	\$0.00
New Pavement - Collector Roads	\$40.00	Square Yard	3600	\$144,000.00
New Pavement - Local Commercial Roads	\$34.00	Square Yard	0	\$0.00
New Pavement - Local Residential Roads 4" PBD	\$29.00	Square Yard	0	\$0.00
Excavation	\$7.25	Linear Foot	1600	\$11,600.00
Excavation (Borrow)	\$12.00	Cubic Yard	0	\$0.00
Drainage	Ş12.00	Cubic raru	U	٥٥.٥٥
Inlet/Manhole	\$2,400.00	Each	10	\$24,000.00
Pipe and Trenching	\$55.00	Linear Foot	1500	\$82,500.00
Culvert	\$700.00	Linear Foot	0	\$0.00
Pavement Markings	,		· · · · · · · · · · · · · · · · · · ·	7 3 3 3
4" Pavement Markings	\$2.00	Linear Foot	3200	\$6,400.00
8" Pavement Markings	\$8.00	Linear Foot	0	\$0.00
Miscellaneous	•		•	
Guide Rail	\$18.00	Linear Foot	0	\$0.00
Concrete Curb	\$35.00	Linear Foot	2000	\$70,000.00
Bituminous Wedge Curb	\$7.00	Linear Foot	0	\$0.00
Othe <u>r Miscellaneous</u>				
Post Mounted Signs	\$200.00	Each	10	\$2,000.00
ADA Upgrades	\$10,000.00	LS	1	\$10,000.00
	5.00/		truction Subtotal:	\$430,500.00
Mobilization	5.0% 5.0%		uction Total	\$21,525.00
Maintenance and Protection of Traffic	25.0%		uction Total uction Total	\$21,525.00
Contingency	25.0%		l Construction:	\$107,625.00 \$581,175.00
Utility Relocation	L	101a	i Construction.	\$561,175.00
Utility Pole Relocation	\$3,300.00	Each	2	\$6,600.00
Electric Service	\$2,000.00	Each	0	\$0.00
Water/ Gas Valves	\$250.00	Each	0	\$0.00
Fire Hydrant Relocation	\$1,000.00	Each	1	\$1,000.00
High Tension Electric Poles	\$130,000.00	Each	0	\$0.00
Sanitary Manhole	\$2,400.00	Each	0	\$0.00
Street Lights	\$5,000.00	Project	11	\$55,000.00
			Utility Subtotal:	\$62,600.00
Contingency	15.0%		y Subtotal	\$9,390.00
		Total Uti	ity Relocation:	\$71,990.00
Right-of-Way	4450 000 001			1
Right-of-Way - Urban	\$150,000.00	Acres	0	\$0.00
Right-of-Way - Rural Construction Easement (75% of ROW)	\$120,000.00	Acres	0	\$0.00
Structures	\$180,000.00	Acres	0	\$0.00
Structures	\$100,000.00	Each Right	of-Way Subtotal:	\$0.00 \$0.00
Contingency	15.0%		Way Subtotal	\$0.00
contingency	13.0/0		Right-of-Way:	\$0.00
Engineering	11.5%		uction Total	\$66,835.13
Construction Inspection	8.0%		uction Total	\$46,494.00
Administration and Planning	1.5%		uction Total	\$8,717.63
	=:370		al Project Cost:	\$775,211.75
	L			7.,0,=11.,0

PROJECT CODE: 122 TRANSPORTATION DISTRICT: Eastern/Southern District

LOCATION:

Muddy Creek Road (SR 1059) & Trost Road (T-953)

DEFICIENCY:

The current intersection geometry is deficient with 2034 projected traffic volumes.

PROPOSED IMPROVEMENTS:

Project Deleted. Not feasible- PENNDOT will not permit installation of All-Way Stop Control Install all-way stop control and channelize the eastbound right turn movement.

ESTIMATED COST SUMMARY:

(Current Year 2010 Dollars)

Construction	165,665
Utility Relocation	7,590
Right-of-Way	133,074
Engineering	19,051
Inspection	13,253
Admin & Planning	2,485
TOTAL	\$341,119

CONSTRUCTION YEAR AND PROJECTED COST:

Construction Year	2034	Inflation Rate: 3.76%
Projected Construction Cost	\$858,332	

PROPOSED FUNDING: PROJECT SCHEDULE:

	_			Year
State/Federal	0%	\$0	Secure Funding	2032
Other	0%	\$0	Acquire ROW	2033
Impact Fees	0%	\$0	Compete Engineering	2033
			Begin Construction	2034

TRANSPORTATION DISTRICT COST:

			REMARKS:
Western District	0%	\$0	Candidte project. May turn into future signal
Eastern District	41%	\$0	project
Southern Distict	59%	\$0	

Project Number 122	Done By: BDE		Checked:	MJR
Description	Cost	Unit	Quantity	Total
Construction Items				
Traffic Signals				
New Signal (4-way)	\$200,000.00	Each	0	\$0.00
New Signal (3-way)	\$150,000.00	Each	0	\$0.00
Signal Modifications	\$20,000.00	Each	0	\$0.00
Emergency Vehicle Preemption Only	\$10,000.00	Each	0	\$0.00
Pavement				
1.5" Pavement Overlay and Milling	\$7.00	Square Yard	0	\$0.00
New Pavement - Arterial Roads	\$46.00	Square Yard	2667	\$122,682.00
New Pavement - Collector Roads	\$40.00	Square Yard	0	\$0.00
New Pavement - Local Commercial Roads	\$34.00	Square Yard	0	\$0.00
New Pavement - Local Residential Roads 4" PBD	\$29.00	Square Yard	0	\$0.00
Excavation	\$7.25	Linear Foot	200	\$1,450.00
Excavation (Borrow)	\$12.00	Cubic Yard	0	\$0.00
Drainage	712.00	Cubic raru	<u> </u>	Ş0.00
Inlet/Manhole	\$2,400.00	Each	0	\$0.00
Pipe and Trenching	\$55.00	Linear Foot	0	\$0.00
Culvert	\$700.00	Linear Foot	0	\$0.00
Pavement Markings	, , , , , , , , , , , , , , , , , , , ,		- 1	73.55
4" Pavement Markings	\$2.00	Linear Foot	200	\$400.00
8" Pavement Markings	\$8.00	Linear Foot	0	\$0.00
Miscellaneous	•		•	
Guide Rail	\$18.00	Linear Foot	0	\$0.00
Concrete Curb	\$35.00	Linear Foot	200	\$7,000.00
Bituminous Wedge Curb	\$7.00	Linear Foot	0	\$0.00
Othe <u>r Miscellaneous</u>				
Post Mounted Signs	\$200.00	Each	5	\$1,000.00
				\$0.00
	5.00/		truction Subtotal:	\$132,532.00
Mobilization	5.0% 5.0%		uction Total	\$6,626.60
Maintenance and Protection of Traffic	15.0%		uction Total uction Total	\$6,626.60 \$19,879.80
Contingency	15.0%		l Construction:	\$165,665.00
Utility Relocation	L	101a	i construction.	\$105,005.00
Utility Pole Relocation	\$3,300.00	Each	2	\$6,600.00
Electric Service	\$2,000.00	Each	0	\$0.00
Water/ Gas Valves	\$250.00	Each	0	\$0.00
Fire Hydrant Relocation	\$1,000.00	Each	0	\$0.00
High Tension Electric Poles	\$130,000.00	Each	0	\$0.00
Sanitary Manhole	\$2,400.00	Each	0	\$0.00
Other	\$5,000.00	Project	0	\$0.00
			Utility Subtotal:	\$6,600.00
Contingency	15.0%		y Subtotal	\$990.00
		Total Util	lity Relocation:	\$7,590.00
Right-of-Way	1		r	
Right-of-Way - Urban	\$150,000.00	Acres	0	\$0.00
Right-of-Way - Rural	\$120,000.00	Acres	0.551033058	\$66,123.97
Construction Easement (75% of ROW)	Ć400.000.00	Acres	0	\$49,592.98
Structures	\$180,000.00	Each	0	\$0.00
Contingonou	15.00/		-of-Way Subtotal:	\$115,716.94
Contingency	15.0%		Way Subtotal	\$17,357.54
Engineering	11.5%		Right-of-Way:	\$133,074.48
Engineering Construction Inspection	8.0%		uction Total	\$19,051.48 \$13,253.20
Administration and Planning	1.5%		uction Total	\$13,253.20
Administration and Figurillig	1.5/6		al Project Cost:	\$341,119.13
		100	ai Project Cost:	Ş341,119.1 <u>3</u>

PROJECT CODE: S22 TRANSPORTATION DISTRICT: Eastern/Southern District

LOCATION:

Colonel George Howard Boulevard (SR 1040)

DEFICIENCY:

The current roadway segment is deficient with 2034 projected traffic volumes.

PROPOSED IMPROVEMENTS:

Construct additional 3rd thru lanes (triple thrus in each direction between Route 272 and the first Route 222 ramp). Tie into SR 222 Interchange work (IO7 and IO8).

ESTIMATED COST SUMMARY:

(Current Year 2010 Dollars)

Construction	1,953,659
Utility Relocation	26,795
Right-of-Way	0
Engineering	224,671
Inspection	156,293
Admin & Planning	29,305
TOTAL	\$2,390,723

CONSTRUCTION YEAR AND PROJECTED COST:

Construction Year	2027	Inflation Rate: 3.76%

Projected Construction Cost \$4,645,886

PROPOSED FUNDING: PROJECT SCHEDULE:

		_		Year
State/Federal	80%	\$3,716,709	Secure Funding	2025
Other	0%	\$0	Acquire ROW	2026
Impact Fees	20%	\$929,177	Compete Engineering	2026
		_	Begin Construction	2027

REMARKS:

TRANSPORTATION DISTRICT COST:

Western District	0%	\$0
Eastern District	41%	\$380,963
Southern Distict	59%	\$548,215

Project Number S22	Done By: BDE		Checked:	MJR
Description	Cost	Unit	Quantity	Total
Construction Items				
Traffic Signals				
New Signal (4-way)	\$200,000.00	Each	3	\$600,000.00
New Signal (3-way)	\$150,000.00	Each	0	\$0.00
Signal Modifications	\$20,000.00	Each	0	\$0.00
Emergency Vehicle Preemption Only	\$10,000.00	Each	0	\$0.00
Pavement	ć= 00		ا	<u> </u>
1.5" Pavement Overlay and Milling	\$7.00	Square Yard	0	\$0.00
New Pavement - Arterial Roads New Pavement - Collector Roads- Shoulder	\$75.00 \$40.00	Square Yard	6667	\$500,025.00
New Pavement - Local Commercial Roads	\$40.00	Square Yard	6667 0	\$266,680.00
New Pavement - Local Residential Roads	\$29.00	Square Yard Square Yard	0	\$0.00 \$0.00
4" PBD	\$7.25	Linear Foot	5000	\$36,250.00
Excavation	۷7.23	Lilleal Foot	3000	330,230.00
Excavation (Borrow)	\$12.00	Cubic Yard	0	\$0.00
Drainage	Ų12.00	Cubic rara	<u> </u>	70.00
Inlet/Manhole	\$2,400.00	Each	3	\$7,200.00
Pipe and Trenching	\$55.00	Linear Foot	0	\$0.00
Culvert	\$700.00	Linear Foot	0	\$0.00
Pavement Markings	7.00.00		<u> </u>	φο.οο
4" Pavement Markings	\$2.00	Linear Foot	10000	\$20,000.00
8" Pavement Markings	\$8.00	Linear Foot	0	\$0.00
Miscellaneous			<u>l</u>	•
Guide Rail	\$18.00	Linear Foot	200	\$3,600.00
Concrete Curb	\$35.00	Linear Foot	200	\$7,000.00
Bituminous Wedge Curb	\$7.00	Linear Foot	0	\$0.00
Other Miscellaneous				
Post Mounted Signs	\$200.00	Each	32	\$6,400.00
				\$0.00
			truction Subtotal:	\$1,447,155.00
Mobilization	5.0%		uction Total	\$72,357.75
Maintenance and Protection of Traffic	5.0%		uction Total	\$72,357.75
Contingency	25.0%		uction Total	\$361,788.75
with a last	ļ	Tota	I Construction:	\$1,953,659.25
Utility Relocation	¢2 200 00		I 41	ć2 200 00
Utility Pole Relocation	\$3,300.00	Each	1	\$3,300.00
Electric Service	\$2,000.00	Each	0	\$0.00
Water/ Gas Valves Fire Hydrant Relocation	\$250.00 \$1,000.00	Each Each	0	\$0.00 \$0.00
High Tension Electric Poles	\$130,000.00	Each	0	\$0.00
Sanitary Manhole	\$2,400.00	Each	0	\$0.00
Street Lights	\$5,000.00	Project	4	\$20,000.00
Street Lights	\$3,000.00	Froject	Utility Subtotal:	\$23,300.00
Contingency	15.0%	Of Utilit	y Subtotal	\$3,495.00
Contingency	13.070		ity Relocation:	\$26,795.00
Right-of-Way	L	. 5 (3) (5 (1)	,	Ç20,733.00
Right-of-Way - Urban	\$150,000.00	Acres	0	\$0.00
Right-of-Way - Rural	\$120,000.00	Acres	0	\$0.00
Construction Easement (75% of ROW)		Acres	0	\$0.00
Structures	\$180,000.00	Each	0	\$0.00
			-of-Way Subtotal:	\$0.00
Contingency	15.0%		-Way Subtotal	\$0.00
			Right-of-Way:	\$0.00
Engineering	11.5%	Of Constr	uction Total	\$224,670.81
Construction Inspection	8.0%		uction Total	\$156,292.74
Administration and Planning	1.5%		uction Total	\$29,304.89
		Tota	al Project Cost:	\$2,390,722.69

PROJECT CODE: 123 TRANSPORTATION DISTRICT: Eastern District

LOCATION:

Muddy Creek Road (SR 1059) & Stone Hill Road (T-862)

DEFICIENCY:

The current intersection is deficient with 2034 projected traffic volumes.

PROPOSED IMPROVEMENTS:

Install all-way stop control.

ESTIMATED COST SUMMARY:

(Current Year 2010 Dollars)

Construction	1,000
Utility Relocation	0
Right-of-Way	0
Engineering	115
Inspection	80
Admin & Planning	15
TOTAL	\$1,210

CONSTRUCTION YEAR AND PROJECTED COST:

Construction Year	2034	Inflation Rate: 3.76%
Projected Construction Cost	\$3,045	

PROPOSED FUNDING:

PROJECT SCHEDULE:

				Year
State/Federal	50%	\$1,522	Secure Funding	2032
Other	0%	\$0	Acquire ROW	2033
Impact Fees	50%	\$1,522	Compete Engineering	2033
			Begin Construction	2034

TRANSPORTATION DISTRICT COST:

Western District	0%	\$0
Eastern District	100%	\$1,522
Southern Distict	0%	\$0

New Signal (3-way)	Project Number 123	Done By: BDE		Checked:	MJR
New Signal (4-way)	Description	Cost	Unit	Quantity	Total
New Signal (3-way)	Construction Items				
New Signal (3-way)					
Signal Modifications \$20,000.00 Each 0 \$0.00			Each	0	\$0.00
Emergency Vehicle Preemption Only			Each	0	\$0.00
Pavement					\$0.00
Supersect Supe		\$10,000.00	Each	0	\$0.00
New Pavement - Arterial Roads \$46.00 \$quare Yard 0 \$0.00 New Pavement - Collector Roads \$34.00 \$quare Yard 0 \$0.00 New Pavement - Local Commercial Roads \$34.00 \$quare Yard 0 \$0.00 New Pavement - Local Residential Roads \$32.00 \$quare Yard 0 \$0.00 A" PBD \$7.25 Linear Foot 0 \$0.00 Excavation Excavation (Borrow) \$12.00 Cubic Yard 0 \$0.00 Excavation (Borrow) \$12.00 Cubic Yard 0 \$0.00 Excavation (Borrow) \$12.00 Cubic Yard 0 \$0.00 Porinage \$1.00 Pavement Markings \$1.00 Pavement Markin					
New Pavement - Collector Roads					\$0.00
New Pavement - Local Commercial Roads		· ·		_	\$0.00
New Pavement - Local Residential Roads				_	\$0.00
A" PBD				_	\$0.00
Excavation S12.00 Cubic Yard O S0.00					\$0.00
Excavation (Borrow) \$12.00 Cubic Yard 0 \$0.00		\$7.25	Linear Foot	0	\$0.00
Drainage		1 640.00		I -I	
Inlet/Manhole		\$12.00	Cubic Yard	0	\$0.00
Pipe and Trenching		62 400 00			40.00
Culvert S700.00 Linear Foot O \$0.00	•				\$0.00
A					\$0.00
A" Pavement Markings \$2.00 Linear Foot 0 \$0.00		\$700.00	Linear Foot	0	\$0.00
Right-of-Way - Urban Signs		¢2.00	Linna Fact	0	¢0.00
Guide Rail \$18.00 Linear Foot 0 \$0.00		•			\$0.00
Suide Rail S18.00 Linear Foot O S0.00		\$8.00	Linear Foot	0	\$0.00
Concrete Curb \$35.00 Linear Foot 0 \$0.00		¢10.00	Linnay Foot	0	¢0.00
Bituminous Wedge Curb					
Post Mounted Signs \$200.00 Each 4 \$800.00					
Post Mounted Signs \$200.00 Each 4 \$800.00 \$0.00		\$7.00	Linear Foot	U	\$0.00
Construction Subtotal: \$800.0		\$200.00	Fach	1	¢800.00
Construction Subtotal: \$800.00	Post Mounted Signs	\$200.00	Each	4	
Mobilization 5.0% Of Construction Total \$40.0 Maintenance and Protection of Traffic 5.0% Of Construction Total \$40.0 Contingency 15.0% Of Construction Total \$120.0 Total Construction: \$1,000.0 Utility Relocation Electric Service \$2,000.00 Each 0 \$0.0 Water/ Gas Valves \$250.00 Each 0 \$0.0 Fire Hydrant Relocation \$1,000.00 Each 0 \$0.0 High Tension Electric Poles \$130,000.00 Each 0 \$0.0 Sanitary Manhole \$2,400.00 Each 0 \$0.0 Other \$5,000.00 Project 0 \$0.0 Contingency 15.0% Of Utility Subtotal \$0.0 Right-of-Way Right-of-Way - Urban \$150,000.00 Acres 0 \$0.0 Right-of-Way - Rural \$120,000.00 Acres 0 \$0.0			Cons	truction Subtotal:	
Maintenance and Protection of Traffic 5.0% Of Construction Total \$40.0 Contingency 15.0% Of Construction Total \$120.0 Total Construction: \$1,000.0 Utility Relocation Electric Service \$3,300.00 Each 0 \$0.0 Water/ Gas Valves \$250.00 Each 0 \$0.0 Fire Hydrant Relocation \$1,000.00 Each 0 \$0.0 High Tension Electric Poles \$130,000.00 Each 0 \$0.0 Sanitary Manhole \$2,400.00 Each 0 \$0.0 Other \$5,000.00 Project 0 \$0.0 Contingency 15.0% Of Utility Subtotal \$0.0 Right-of-Way \$150,000.00 Acres 0 \$0.0 Right-of-Way - Urban \$150,000.00 Acres 0 \$0.0 Right-of-Way - Rural \$120,000.00 Acres 0 \$0.0	Mobilization	5.0%			
Total Construction \$12.0.0					
Total Construction: \$1,000.00					
Utility Pole Relocation \$3,300.00 Each 0 \$0.0 Electric Service \$2,000.00 Each 0 \$0.0 Water/ Gas Valves \$250.00 Each 0 \$0.0 Fire Hydrant Relocation \$1,000.00 Each 0 \$0.0 High Tension Electric Poles \$130,000.00 Each 0 \$0.0 Sanitary Manhole \$2,400.00 Each 0 \$0.0 Other \$5,000.00 Project 0 \$0.0 Contingency 15.0% Of Utility Subtotal \$0.0 Right-of-Way Right-of-Way - Urban \$150,000.00 Acres 0 \$0.0 Right-of-Way - Rural \$120,000.00 Acres 0 \$0.0	Contingency	15.070			
Utility Pole Relocation \$3,300.00 Each 0 \$0.0 Electric Service \$2,000.00 Each 0 \$0.0 Water/ Gas Valves \$250.00 Each 0 \$0.0 Fire Hydrant Relocation \$1,000.00 Each 0 \$0.0 High Tension Electric Poles \$130,000.00 Each 0 \$0.0 Sanitary Manhole \$2,400.00 Each 0 \$0.0 Other \$5,000.00 Project 0 \$0.0 Contingency 15.0% Of Utility Subtotal \$0.0 Right-of-Way \$0.0 Total Utility Relocation: \$0.0 Right-of-Way - Urban \$150,000.00 Acres 0 \$0.0 Right-of-Way - Rural \$120,000.00 Acres 0 \$0.0	Utility Relocation		10ta	Construction.	\$1,000.00
Electric Service		\$3,300.00	Fach	0	\$0.00
Water/ Gas Valves \$250.00 Each 0 \$0.0 Fire Hydrant Relocation \$1,000.00 Each 0 \$0.0 High Tension Electric Poles \$130,000.00 Each 0 \$0.0 Sanitary Manhole \$2,400.00 Each 0 \$0.0 Other \$5,000.00 Project 0 \$0.0 Utility Subtotal: \$0.0 \$0.0 Total Utility Subtotal \$0.0 Total Utility Relocation: \$0.0 Right-of-Way \$150,000.00 Acres 0 \$0.0 Right-of-Way - Rural \$120,000.00 Acres 0 \$0.0	· · · · · · · · · · · · · · · · · · ·				\$0.00
Fire Hydrant Relocation					\$0.00
High Tension Electric Poles \$130,000.00 Each 0 \$0.00 Sanitary Manhole \$2,400.00 Each 0 \$0.00 Other \$5,000.00 Project 0 \$0.00 Contingency \$15.0% Of Utility Subtotal \$0.00 Total Utility Relocation: \$0.00 Right-of-Way - Urban \$150,000.00 Acres 0 \$0.00 Right-of-Way - Rural \$120,000.00 Acres 0 \$0.00 Solution					\$0.00
Sanitary Manhole \$2,400.00 Each 0 \$0.0 Other \$5,000.00 Project 0 \$0.0 Utility Subtotal: \$0.0 Contingency 15.0% Of Utility Subtotal \$0.0 Total Utility Relocation: \$0.0 Right-of-Way \$150,000.00 Acres 0 \$0.0 Right-of-Way - Rural \$120,000.00 Acres 0 \$0.0					\$0.00
Other \$5,000.00 Project 0 \$0.0 Utility Subtotal: \$0.0 Contingency 15.0% Of Utility Subtotal \$0.0 Total Utility Relocation: \$0.0 Right-of-Way Right-of-Way - Urban \$150,000.00 Acres 0 \$0.0 Right-of-Way - Rural \$120,000.00 Acres 0 \$0.0					\$0.00
Contingency 15.0% Of Utility Subtotal: \$0.00					\$0.00
Contingency 15.0% Of Utility Subtotal \$0.0 Total Utility Relocation: \$0.0 Right-of-Way Right-of-Way - Urban \$150,000.00 Acres 0 \$0.0 Right-of-Way - Rural \$120,000.00 Acres 0 \$0.0		1 - /		Utility Subtotal:	\$0.00
Total Utility Relocation: \$0.0 Right-of-Way Sight-of-Way - Urban \$150,000.00 Acres 0 \$0.0 Right-of-Way - Rural \$120,000.00 Acres 0 \$0.0	Contingency	15.0%	Of Utilit		\$0.00
Right-of-Way Right-of-Way - Urban \$150,000.00 Acres 0 \$0.0 Right-of-Way - Rural \$120,000.00 Acres 0 \$0.0	,				\$0.00
Right-of-Way - Urban \$150,000.00 Acres 0 \$0.0 Right-of-Way - Rural \$120,000.00 Acres 0 \$0.0	Right-of-Way				7
Right-of-Way - Rural \$120,000.00 Acres 0 \$0.0		\$150,000.00	Acres	0	\$0.00
Construction Easement (75% of ROW)	Right-of-Way - Rural	\$120,000.00	Acres	0	\$0.00
Construction Lasement (75% of NOW)	Construction Easement (75% of ROW)		Acres	0	\$0.00
	Structures	\$180,000.00		0	\$0.00
Right-of-Way Subtotal: \$0.0			Right	-of-Way Subtotal:	\$0.00
	Contingency	15.0%			\$0.00
	-				\$0.00
	Engineering	11.5%			\$115.00
					\$80.00
		1.5%	Of Constr	uction Total	\$15.00
	-		Tota	al Project Cost:	\$1,210.00

PROJECT CODE: \$28 TRANSPORTATION DISTRICT: Southern District

LOCATION:

Church Street (SR 1051), between Route 272 & Red Run Road (SR 1044)

DEFICIENCY:

The current roadway segment is deficient with 2034 projected traffic volumes.

PROPOSED IMPROVEMENTS:

Widen to 11' lanes with 4' shoulders.

ESTIMATED COST SUMMARY:

(Current Year 2010 Dollars)

Construction	204,725
Utility Relocation	166,635
Right-of-Way	0
Engineering	23,543
Inspection	16,378
Admin & Planning	3,071
TOTAL	\$414,352

CONSTRUCTION YEAR AND PROJECTED COST:

Construction Year 2034 Inflation Rate: 3.76%

Projected Construction Cost \$1,042,

PROPOSED FUNDING: PROJECT SCHEDULE:

		_		Year
State/Federal	100%	\$1,042,603	Secure Funding	2032
Other	0%	\$0	Acquire ROW	2033
Impact Fees	0%	\$0	Compete Engineering	2033
		_	Begin Construction	2034

TRANSPORTATION DISTRICT COST:

Western District	0%	\$0
Eastern District	0%	\$0
Southern Distict	100%	\$0

Project Number S28	Done By: BDE		Checked: N	ЛJR
Description	Cost	Unit	Quantity	Total
Construction Items				
Traffic Signals				
New Signal (4-way)	\$200,000.00	Each	0	\$0.00
New Signal (3-way)	\$150,000.00	Each	0	\$0.00
Signal Modifications	\$20,000.00	Each	0	\$0.00
Emergency Vehicle Preemption Only	\$10,000.00	Each	0	\$0.00
Pavement				
1.5" Pavement Overlay and Milling	\$7.00	Square Yard	0	\$0.00
New Pavement - Arterial Roads	\$46.00	Square Yard	0	\$0.00
New Pavement - Collector Roads	\$40.00	Square Yard	2222	\$88,880.00
New Pavement - Local Commercial Roads	\$34.00	Square Yard	0	\$0.00
New Pavement - Local Residential Roads	\$29.00	Square Yard	0	\$0.00
4" PBD	\$7.25	Linear Foot	10000	\$72,500.00
Excavation	1 4.0.00		T	
Excavation (Borrow)	\$12.00	Cubic Yard	0	\$0.00
Drainage	1 40.00.00			
Inlet/Manhole	\$2,400.00	Each	0	\$0.00
Pipe and Trenching	\$55.00	Linear Foot	0	\$0.00
Culvert	\$700.00	Linear Foot	0	\$0.00
Pavement Markings	1 40.00			
4" Pavement Markings	\$2.00	Linear Foot	0	\$0.00
8" Pavement Markings	\$8.00	Linear Foot	0	\$0.00
Miscellaneous	1 440.001			4
Guide Rail	\$18.00	Linear Foot	0	\$0.00
Concrete Curb	\$35.00	Linear Foot	0	\$0.00
Bituminous Wedge Curb	\$7.00	Linear Foot	0	\$0.00
Other Miscellaneous	1 4000 001			
Post Mounted Signs	\$200.00	Each	12	\$2,400.00
				\$0.00
	5.00/		truction Subtotal:	\$163,780.00
Mobilization	5.0%		uction Total	\$8,189.00
Maintenance and Protection of Traffic	5.0%		uction Total uction Total	\$8,189.00
Contingency	15.0%		l Construction:	\$24,567.00
Litility Delegation		TOLA	Construction:	\$204,725.00
Utility Relocation Utility Pole Relocation	\$3,300.00	Each	42	¢1.41.000.00
Electric Service	\$2,000.00		43	\$141,900.00
Water/ Gas Valves	\$250.00	Each	0	\$0.00 \$0.00
Fire Hydrant Relocation	\$1,000.00	Each Each	3	\$3,000.00
High Tension Electric Poles	\$130,000.00			\$3,000.00
Sanitary Manhole	\$130,000.00	Each Each	0	\$0.00
Other	\$5,000.00		0	\$0.00
Other	\$5,000.00	Project	Utility Subtotal:	\$144,900.00
Contingency	15.0%	Of LItilit	y Subtotal	\$144,900.00
Contingency	13.070		lity Relocation:	\$166,635.00
Right-of-Way	L	וטנמו טנוו	ncy Neiocation.	\$100,033.00
Right-of-Way - Urban	\$150,000.00	Acres	0	\$0.00
Right-of-Way - Grain	\$120,000.00	Acres	0	\$0.00
Construction Easement (75% of ROW)	7120,000.00	Acres	0	\$0.00
Structures	\$180,000.00	Each	0	\$0.00
Structures	Ç100,000.00		of-Way Subtotal:	\$0.00
Contingency	15.0%		-Way Subtotal	\$0.00
Contingency	13.0/6		Right-of-Way:	\$0.00
Engineering	11.5%		uction Total	\$23,543.38
Construction Inspection	8.0%		uction Total	\$23,543.38
Administration and Planning	1.5%		uction Total	\$3,070.88
Administration and Flanding	1.5%		al Project Cost:	
		100	ai Project Cost:	\$414,352.25

PROJECT CODE: 130 TRANSPORTATION DISTRICT: Western/Southern District

LOCATION:

Route 272 & Denver Road (T-90)

DEFICIENCY:

The current intersection geometry is deficient with 2034 projected traffic volumes.

PROPOSED IMPROVEMENTS:

Construct a new eastbound approach with dual left turn lanes and a shared right turn lane. Install a traffic signal. Construct a northbound left turn lane.

ESTIMATED COST SUMMARY:

(Current Year 2010 Dollars)

Construction	313,400
Utility Relocation	4,945
Right-of-Way	35,477
Engineering	36,041
Inspection	25,072
Admin & Planning	4,701
TOTAL	\$419,636

CONSTRUCTION YEAR AND PROJECTED COST:

Construction Year	2034	Inflation Rate: 3.76%
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Projected Construction Cost \$1,055,896

PROPOSED FUNDING: PROJECT SCHEDULE:

				i eai
State/Federal	0%	\$0	Secure Funding	2032
Other	0%	\$0	Acquire ROW	2033
Impact Fees	0%	\$0	Compete Engineering	2033
			Begin Construction	2034

TRANSPORTATION DISTRICT COST:

Western District	0%	\$0
Eastern District	0%	\$0
Southern Distict	0%	\$0

Project Number 130	Done By: BDE		Checked: I	MJR
Description	Cost	Unit	Quantity	Total
Construction Items			-	
Traffic Signals				
New Signal (4-way)	\$200,000.00	Each	1	\$200,000.00
New Signal (3-way)	\$150,000.00	Each	0	\$0.00
Signal Modifications	\$20,000.00	Each	0	\$0.00
Emergency Vehicle Preemption Only	\$10,000.00	Each	0	\$0.00
Pavement				
1.5" Pavement Overlay and Milling	\$7.00	Square Yard	0	\$0.00
New Pavement - Arterial Roads	\$46.00	Square Yard	533	\$24,518.00
New Pavement - Collector Roads	\$40.00	Square Yard	0	\$0.00
New Pavement - Local Commercial Roads	\$34.00	Square Yard	178	\$6,052.00
New Pavement - Local Residential Roads	\$29.00	Square Yard	0	\$0.00
4" PBD	\$7.25	Linear Foot	1400	\$10,150.00
Excavation	1 440.00			40.00
Excavation (Borrow)	\$12.00	Cubic Yard	0	\$0.00
Drainage	ć2 400 00l	Fl-	0	¢0.00
Inlet/Manhole	\$2,400.00 \$55.00	Each	0	\$0.00
Pipe and Trenching Culvert	\$700.00	Linear Foot	0	\$0.00
	\$700.00	Linear Foot	U	\$0.00
Pavement Markings 4" Pavement Markings	\$2.00	Linear Foot	5000	¢10 000 00
8" Pavement Markings	\$8.00	Linear Foot	0	\$10,000.00 \$0.00
Miscellaneous	Ç0.00	Lilleal Foot	U	\$0.00
Guide Rail	\$18.00	Linear Foot	0	\$0.00
Concrete Curb	\$35.00	Linear Foot	0	\$0.00
Bituminous Wedge Curb	\$7.00	Linear Foot	0	\$0.00
Other Miscellaneous	ψ1.00	Ellicai i oot	U U	Ç0.00
Post Mounted Signs	\$200.00	Each	0	\$0.00
			-	\$0.00
		Construction Subtotal: Of Construction Total		\$250,720.00
Mobilization	5.0%			\$12,536.00
Maintenance and Protection of Traffic	5.0%	Of Construction Total		\$12,536.00
Contingency	15.0%	Of Construction Total		\$37,608.00
		Total Construct		\$313,400.00
Utility Relocation				
Utility Pole Relocation	\$3,300.00	Each	1	\$3,300.00
Electric Service	\$2,000.00	Each	0	\$0.00
Water/ Gas Valves	\$250.00	Each	0	\$0.00
Fire Hydrant Relocation	\$1,000.00	Each	1	\$1,000.00
High Tension Electric Poles	\$130,000.00	Each	0	\$0.00
Sanitary Manhole	\$2,400.00	Each	0	\$0.00
Other	\$5,000.00	Project	0	\$0.00
Cantingana	15.0%	Of LItilit	Utility Subtotal: y Subtotal	\$4,300.00
Contingency			ity Relocation:	\$645.00 \$4,945.00
Right-of-Way	L	Total Oth	ity Kelocation.	34,343.00
Right-of-Way - Urban	\$150,000.00	Acres	0	\$0.00
Right-of-Way - Rural	\$120,000.00	Acres	0.146900826	\$17,628.10
Construction Easement (75% of ROW)	Ç120,000.00	Acres	0:140300020	\$13,221.07
Structures	\$180,000.00	Each	0	\$0.00
•			of-Way Subtotal:	\$30,849.17
Contingency	15.0%	Of Right-of-Way Subtotal		\$4,627.38
		Total Right-of-Way:		\$35,476.55
Engineering	11.5%		uction Total	\$36,041.00
Construction Inspection	8.0%	Of Construction Total		\$25,072.00
Administration and Planning			Of Construction Total	
		Tota	\$4,701.00 \$419,635.55	