South Stage Road Extension Plan Modified O-2 Overpass ODOT



repared By: Eza Gaigalas & Emilio Calderon		Date: July 2024			
iewed By: Darren Hippenstiel, PE This Estimate has a Ratinq of:		3C (See rating scale guide below.)			
ITEM	UNIT	TOTAL QUANTITY	UNIT PRICE	TOTAL COST	
Mobilization	LS	ALL	\$7,397,000.00	\$7,397,000.	
Traffic Control	LS	ALL	\$5,927,000.00	\$5,927,000.	
Construction Staging	LS	ALL	\$0.00	\$0.	
Erosion Control	AC	12.3	\$10,000.00	\$123,000	
Removal of Structures and Obstructions	LS	ALL	\$722,000.00	\$722,000	
Clearing and Grubbing	LS	ALL	\$1,083,000.00	\$1,083,000	
General Earthworks	CY	55,389	\$40.00	\$2,215,560	
Asphalt Roadway - Full Depth	SF	326,592	\$9.20	\$3,004,646	
Asphalt Roadway - Grind & Inlay (2" Depth)	SF		\$3.10	\$0.	
Concrete Roadway - Full Depth	SF	0	\$15.60	\$0.	
Subgrade Geotextile	SY	36,288	\$1.50	\$54,432	
Concrete Curbs - Standard Curb	LF	0	\$30.90	\$0	
Concrete Curbs - Standard Curb & Gutter	LF	13,440	\$36.70	\$493,248	
Raised Concrete Island	SF	,	\$12.90	\$0	
Truck Apron (Concrete)	SF		\$19.30	\$0	
Concrete Cycle Track	SF	0	\$8.40	\$0	
Separated Bicycle Facility - Asphalt	SF	0	\$3.00	\$0	
Concrete Walks	SF	80,640	\$8.40	\$677,376	
Separated Multi-Use Path - Concrete	SF	0	\$8.40	\$0	
Separated Multi-Use Path - Asphalt	SF	0	\$3.00	\$0	
Detectable Warnings	EA	8	\$500.00	\$4,000	
Pedestrian Ramps	EA	8	\$7,500.00	\$60,000	
Bike Ramps	EA		\$2,500.00	\$0	
Extra for Pedestrian Ramps	EA	8	\$1,500.00	\$12,000	
Chain Link Fence	LF		\$50.00	\$0	
Residential Driveway Reconstruction	EA	0	\$1,500.00	\$0	
Commercial Driveway Reconstruction	EA	0	\$3,000.00	\$0	
Retaining Walls, Gravity	SF		\$55.00	\$0	
Retaining Walls, MSE	SF	16,800	\$200.00	\$3,360,000	
Retaining Walls, Cut (Soldier pyle, tie back, soil nail)	SF	. 0,000	\$300.00	\$0	
Sound Walls	SF	0	\$45.00	\$0	
Fish Friendly Box Culvert, Complete	LF		\$1,000.00	\$0	
Bridge Structure, Complete	SF	127,200	\$450.00	\$57,240,000	
Guardrail System, Complete	LF	1,400	\$50.00	\$70,000	
Storm Water Conveyance System, Complete	LS	ALL	\$1,957,000.00	\$1,957,000	
Regional Water Quality and Hydromodification System, Complete		44,100	\$28.00	\$1,234,800	
Permanent Landscaping	SF	94,080	\$4.20	\$395,136	
Irrigation, Complete	SF	94,080	\$2.50	\$235,200	
Pavement Markings, Complete	LS	ALL	\$131,000.00	\$131,000	
Signage, Complete	LS	ALL	\$98,000.00	\$98,000	
Illumination System, Complete	LS	ALL	\$913,000.00	\$913,000	
Traffic Signal Modifications, Complete	LS	ALL	\$5.10,000.00	\$0	
Traffic Signal System, Complete	LS	ALL		\$0	
Fiber Optic Interconnect System Complete	LS	ALL		\$0	
			0400.00		
Utility Undergrounding, Complete	LF	0	\$100.00	\$0.	

South Stage Road Extension Plan Modified O-2 Overpass ODOT



Engineer's Conceptual Estimate

Prepared By: Eza Gaigalas & Emilio Calderon		Date: July 2024			
Reviewed By: Darren Hippenstiel, PE					
This Estimate has	This Estimate has a Rating of:		(See rating scale guide below.)		
ITEM	UNIT	TOTAL QUANTITY	UNIT PRICE	TOTAL COST	
ENGINEERING SUPPORT					
Engineering & Construction Management	LS	ALL	\$21,852,000.00	\$21,852,0	00.00
Right-of-Way Support	EA	0	\$18,000.00		\$0.00
County Staff Time	YR		\$50,000.00		\$0.00
ENGINEERING SUPPORT SUBTOTAL				\$ 21,852	,000
TOTAL PROJECT SUBTOTAL					2,132
35% Contingency \$ 38,2					1,750
	TOTAL	ESTIMATED P	ROJECT COST	\$ 147,503	,882

Unit Costs Note:

The associated product and material costs are based upon the most recent available cost data. Due to the current volatility of the construction market, we cannot guarantee these costs for any duration of time.

Assumptions:

- The assumed roadway section is 8 inches ACP over 16 inches of compacted aggregate base.
- Due to the on-street bicycle facility the assumed storm inlet spacing is 150 feet.
- All overhead utilities will be relocated and remain above ground.
- No sound walls are required for this project.
- -

Scope Accuracy:

Level 1: Project scope well understood and well defined.

Level 2: Project scope conceptual. Scope lacks detail due to potential permit requirements; Unknown project conditions; limited knowledge of external impacts.

Level 3: Project scope is a "vision" with limited detail.

Engineering Effort:

Level A: Preliminary engineering performed. Technical information is available, engineering calculations have been performed; clear understanding of the materials size and quantities needed to execute job. Schedule understood; staff and permitting is fairly clear, (however this element may still need refining). Project Development & Construction Contingencies ranges between 10%-20%.

Level B: Conceptual engineering performed. Technical information is available, rough engineering calculations may have been performed, or similar information from previous similar work is compared and used. Project Development Contingencies ranges between 15% to 25% and Construction Contingencies ranges between 20% to 30%.

South Stage Road Extension Plan Modified O-4 Underpass ODOT



viewed By: Darren Hippenstiel, PE	Date: August 2024			
This Estimate has a Rating of:		3C	(See rating scale guide below.)	
ITEM	UNIT	TOTAL QUANTITY	UNIT PRICE	TOTAL COST
			40,000,000,00	40,000,000
Mobilization	LS	ALL	\$9,202,000.00	\$9,202,000
Traffic Control	LS	ALL	\$7,375,000.00	\$7,375,000
Construction Staging	LS	ALL	\$9,218,000.00	\$9,218,000
Erosion Control	AC	16.7	\$10,000.00	\$167,000
Removal of Structures and Obstructions	LS	ALL	\$898,000.00	\$898,000
Clearing and Grubbing	LS	ALL	\$1,347,000.00	\$1,347,000
General Earthworks	CY	182,230	\$40.00	\$7,289,200
Asphalt Roadway - Full Depth	SF	515,392	\$9.20	\$4,741,606
Asphalt Roadway - Grind & Inlay (2" Depth)	SF		\$3.10	\$0
Concrete Roadway - Full Depth	SF	0	\$15.60	\$0
Subgrade Geotextile	SY	57,266	\$1.50	\$85,899
Concrete Curbs - Standard Curb	LF	0	\$30.90	\$(
Concrete Curbs - Standard Curb & Gutter	LF	13,440	\$36.70	\$493,248
Raised Concrete Island	SF		\$12.90	\$0
Truck Apron (Concrete)	SF		\$19.30	\$
Concrete Cycle Track	SF	0	\$8.40	\$
Separated Bicycle Facility - Asphalt	SF	0	\$3.00	\$
Concrete Walks	SF	80,640	\$8.40	\$677,37
Separated Multi-Use Path - Concrete	SF	0	\$8.40	\$
Separated Multi-Use Path - Asphalt	SF	0	\$3.00	\$
Detectable Warnings	EA	8	\$500.00	\$4,00
Pedestrian Ramps	EA	8	\$7,500.00	\$60,00
Bike Ramps	EA		\$2,500.00	\$1
Extra for Pedestrian Ramps	EA	8	\$1,500.00	\$12,00
Chain Link Fence	LF		\$50.00	\$12,66
Residential Driveway Reconstruction	EA	0	\$1,500.00	\$
Commercial Driveway Reconstruction	EA	0	\$3,000.00	\$
Retaining Walls, Gravity	SF	0	\$55.00	<u> </u>
Retaining Walls, MSE	SF	11,000	\$200.00	\$2,200,00
Retaining Walls, MSE Retaining Walls, Cut (Soldier pyle, tie back, soil nail)	SF	10.238	\$300.00	\$3,071,25
Sound Walls		-,	· · · · · · · · · · · · · · · · · · ·	
	SF	0	\$45.00	\$
Fish Friendly Box Culvert, Complete	LF	100 100	\$1,000.00	\$100,000,000
Bridge Structure, Complete	SF	138,400	\$450.00	\$62,280,00
Guardrail System, Complete	LF	2,200	\$50.00	\$110,00
Storm Water Conveyance System, Complete	LS	ALL	\$4,009,000.00	\$4,009,00
Regional Water Quality and Hydromodification System, Complete	SF	63,000	\$28.00	\$1,764,00
Permanent Landscaping	SF	94,080	\$4.20	\$395,13
rrigation, Complete	SF	94,080	\$2.50	\$235,20
Pavement Markings, Complete	LS	ALL	\$268,000.00	\$268,000
Signage, Complete	LS	ALL	\$201,000.00	\$201,000
Illumination System, Complete	LS	ALL	\$1,870,900.00	\$1,870,900
Traffic Signal Modifications, Complete	LS	ALL		\$
Traffic Signal System, Complete	LS	ALL		\$
Fiber Optic Interconnect System Complete	LS	ALL		\$
Utility Undergrounding, Complete	LF	0	\$100.00	\$0

South Stage Road Extension Plan Modified O-4 Underpass ODOT



Engineer's Conceptual Estimate

Engineer's conceptual Estimate					
Prepared By: Eza Gaigalas & Emilio Calderon		Date: August 2024			
Reviewed By: Darren Hippenstiel, PE					
This Estima	This Estimate has a Rating of:		(See rating scale guide below.)		low.)
ITEM	UNIT	TOTAL QUANTITY	UNIT PRICE		TOTAL COST
ENGINEERING SUPPORT					
Engineering & Construction Management	LS	ALL	\$29,494,000.00		\$29,494,000.00
Right-of-Way Support	EA	0	\$18,000.00		\$0.00
County Staff Time	YR		\$50,000.00		\$0.00
ENGINEERING SUPPORT SUBTOTAL				\$	29,494,000
		TOTAL PROJ	ECT SUBTOTAL	\$	147,471,549
35% Contingency \$					51,615,050
	TOTAL	ESTIMATED P	ROJECT COST	\$	199,086,599

Unit Costs Note:

The associated product and material costs are based upon the most recent available cost data. Due to the current volatility of the construction market, we cannot guarantee these costs for any duration of time.

Assumptions:

- The assumed roadway section is 8 inches ACP over 16 inches of compacted aggregate base.
- Due to the on-street bicycle facility the assumed storm inlet spacing is 150 feet.
- All overhead utilities will be relocated and remain above ground.
- No sound walls are required for this project.
- -

Scope Accuracy:

Level 1: Project scope well understood and well defined.

Level 2: Project scope conceptual. Scope lacks detail due to potential permit requirements; Unknown project conditions; limited knowledge of external impacts.

Level 3: Project scope is a "vision" with limited detail.

Engineering Effort:

Level A: Preliminary engineering performed. Technical information is available, engineering calculations have been performed; clear understanding of the materials size and quantities needed to execute job. Schedule understood; staff and permitting is fairly clear, (however this element may still need refining). Project Development & Construction Contingencies ranges between 10%-20%.

Level B: Conceptual engineering performed. Technical information is available, rough engineering calculations may have been performed, or similar information from previous similar work is compared and used. Project Development Contingencies ranges between 15% to 25% and Construction Contingencies ranges between 20% to 30%.

South Stage Road Extension Plan I-2 Overpass O-2 Modified ODOT



epared By: Eza Gaigalas & Emilio Calderon eviewed By: Darren Hippenstiel, PE This Estimate has ITEM Mobilization Traffic Control	a Rating of: UNIT	3C TOTAL	(See rating scale guide	e below.)
This Estimate has ITEM Mobilization Traffic Control			(See rating scale guid	e below.)
Mobilization Traffic Control				
Traffic Control		QUANTITY	UNIT PRICE	TOTAL COST
Traffic Control				
Traffic Control	LS	ALL	\$9,490,000.00	\$9,490,000
	LS	ALL	\$7,606,000.00	\$7,606,000
Construction Staging	LS	ALL	\$0.00	\$0
Erosion Control	AC	16.6	\$10,000.00	\$166,000
Removal of Structures and Obstructions	LS	ALL	\$926,000.00	\$926,000
Clearing and Grubbing	LS	ALL	\$1,389,000.00	\$1,389,000
General Earthworks	CY	86,819	\$1,369,000.00	
		· · · · · · · · · · · · · · · · · · ·	†	\$3,472,760
Asphalt Roadway - Full Depth	SF	512,778	\$9.20	\$4,717,557
Asphalt Roadway - Grind & Inlay (2" Depth)	SF	0	\$3.10	\$0
Concrete Roadway - Full Depth	SF	0	\$15.60	\$0
Subgrade Geotextile	SY	56,976	\$1.50	\$85,464
Concrete Curbs - Standard Curb	LF	0	\$30.90	\$0
Concrete Curbs - Standard Curb & Gutter	LF	13,440	\$36.70	\$493,248
Raised Concrete Island	SF		\$12.90	\$0
Truck Apron (Concrete)	SF		\$19.30	\$0
Concrete Cycle Track	SF	0	\$8.40	\$0
Separated Bicycle Facility - Asphalt	SF	0	\$3.00	\$0
Concrete Walks	SF	80,640	\$8.40	\$677,376
Separated Multi-Use Path - Concrete	SF	0	\$8.40	\$0
Separated Multi-Use Path - Asphalt	SF	0	\$3.00	\$0
Detectable Warnings	EA	8	\$500.00	\$4,000
Pedestrian Ramps	EA	8	\$7,500.00	\$60,000
Bike Ramps	EA		\$2,500.00	\$0
Extra for Pedestrian Ramps	EA	8	\$1,500.00	\$12,000
Chain Link Fence	LF		\$50.00	\$0
Residential Driveway Reconstruction	EA	0	\$1,500.00	\$0
Commercial Driveway Reconstruction	EA	0	\$3,000.00	\$0
Retaining Walls, Gravity	SF		\$55.00	\$0
Retaining Walls, MSE	SF	29,400	\$200.00	\$5,880,000
Retaining Walls, Cut (Soldier pyle, tie back, soil nail)	SF		\$300.00	\$0
Sound Walls	SF	0	\$45.00	\$0
Fish Friendly Box Culvert, Complete	LF		\$1,000.00	\$0
Bridge Structure, Complete	SF	153,900	\$450.00	\$69,255,000
Guardrail System, Complete	LF	2,240	\$50.00	\$112,000
Storm Water Conveyance System, Complete	LS	ALL	\$2,857,000.00	\$2,857,000
Regional Water Quality and Hydromodification System, Complete	SF	62,800	\$28.00	\$1,758,400
Permanent Landscaping	SF	94,080	\$4.20	\$395,136
Irrigation, Complete	SF	94,080	\$2.50	\$235,200
Pavement Markings, Complete	LS	ALL	\$191,000.00	\$191,000
Signage, Complete	LS	ALL	\$143,000.00	\$143,000
Illumination System, Complete	LS	ALL	\$1,333,200.00	\$1,333,200
Traffic Signal Modifications, Complete	LS	ALL	ψ1,000,200.00	\$0
Traffic Signal System, Complete	LS	ALL	\$900,000.00	\$900,000
Fiber Optic Interconnect System Complete	LS	ALL	ψουσ,υσο.υσ	\$900,000
Utility Undergrounding, Complete	LF	0	\$100.00	\$0

South Stage Road Extension Plan I-2 Overpass O-2 Modified ODOT



Engineer's Conceptual Estimate

Prepared By: Eza Gaigalas & Emilio Calderon	Date: July 2024			
Reviewed By: Darren Hippenstiel, PE				
This Est	This Estimate has a Rating of:		(See rating scale guide below.)	
ITEM	UNIT	TOTAL QUANTITY	UNIT PRICE	TOTAL COST
ENGINEERING SUPPORT				
Engineering & Construction Management	LS	ALL	\$28,040,000.00	\$28,040,000.00
Right-of-Way Support	EA	0	\$18,000.00	\$0.00
County Staff Time	YR		\$50,000.00	\$0.00
ENGINEERING SUPPORT SUBTOTAL				\$ 28,040,000
	\$ 140,202,076			
35% Contingency \$ 49,				
	TOTAL	ESTIMATED P	ROJECT COST	\$ 189,272,806

Unit Costs Note:

The associated product and material costs are based upon the most recent available cost data. Due to the current volatility of the construction market, we cannot guarantee these costs for any duration of time.

Assumptions:

- The assumed roadway section is 8 inches ACP over 16 inches of compacted aggregate base.
- Due to the on-street bicycle facility the assumed storm inlet spacing is 150 feet.
- All overhead utilities will be relocated and remain above ground.
- No sound walls are required for this project.
- -

Scope Accuracy:

Level 1: Project scope well understood and well defined.

Level 2: Project scope conceptual. Scope lacks detail due to potential permit requirements; Unknown project conditions; limited knowledge of external impacts.

Level 3: Project scope is a "vision" with limited detail.

Engineering Effort:

Level A: Preliminary engineering performed. Technical information is available, engineering calculations have been performed; clear understanding of the materials size and quantities needed to execute job. Schedule understood; staff and permitting is fairly clear, (however this element may still need refining). Project Development & Construction Contingencies ranges between 10%-20%.

Level B: Conceptual engineering performed. Technical information is available, rough engineering calculations may have been performed, or similar information from previous similar work is compared and used. Project Development Contingencies ranges between 15% to 25% and Construction Contingencies ranges between 20% to 30%.

South Stage Road Extension Plan I-4 Underpass O-4 Modified ODOT



Mobilization	3C TOTAL QUANTITY	(See rating scale guide	a halaw l
Mobilization Traffic Control LS Construction Staging LS Erosion Control AC Removal of Structures and Obstructions LS Clearing and Grubbing LS General Earthworks CY Asphalt Roadway - Full Depth SF Asphalt Roadway - Full Depth Asphalt Roadway - Full Depth SF Concrete Roadway - Full Depth SF Concrete Roadway - Full Depth SF Concrete Curbs - Standard Curb LF Concrete Curbs - Standard Curb Concrete Curbs - Standard Curb SF Concrete Curbs - Standard Curb SF Concrete Curbs - Standard Curb SF Concrete Urbs - Standard Curb SF Concrete Spandard Spandard SF Concrete Spandard SF Concrete Urbs - Standard SF Concrete Urbs - Standard SF Concrete Spandard SF Separated Bicycle Facility - Asphalt SF Separated Multi-Use Path - Concrete SF Separated Multi-Use Path - Asphalt SF Detectable Warnings EA Pedestrian Ramps Bike Ramps EA EXtra for Pedestrian Ramps LSA Commercial Driveway Reconstruction EA Retaining Walls, Gravity SF Retaining Walls, Gravity SF Retaining Walls, Cut (Soldier pyle, tie back, soil nail) SF Sindard Mater Conveplete SF Guardrail System, Complete LF Storm Water Conveplete SF Permanent Landscaping Irrigation, Complete SF Pavement Markings, Complete SI Signage, Complete LS Signage, Complete			E DEIUW.j
Traffic Control LS Construction Staging LS Erosion Control AC Removal of Structures and Obstructions LS Clearing and Grubbing LS General Earthworks CY Asphalt Roadway - Full Depth SF Asphalt Roadway - Full Depth SF Concrete Roadway - Full Depth SF Concrete Roadway - Full Depth SF Concrete Curbs - Standard Curb LF Concrete Curbs - Standard Curb LF Concrete Curbs - Standard Curb LF Concrete Curbs - Standard Curb SF Concrete Cycle Track SF Concrete Cycle Track SF Separated Bicycle Facility - Asphalt SF Concrete Walks SF Separated Multi-Use Path - Concrete SF Separated Multi-Use Path - Asphalt SF Detectable Warnings EA Detectable Warnings EA Bike Ramps EA Extra for Pedestrian Ramps EA Extra for Pedestrian Ramps EA Chain Link Fence LF Residential Driveway Reconstruction EA Retaining Walls, Gravity SF Retaining Walls, Gravity SF Retaining Walls, Cut (Soldier pyle, tie back, soil nail) SF Sound Walls SF Fish Friendly Box Culvert, Complete SF Guardrail System, Complete LF Bridge Structure, Complete SF Guardrail System, Complete SF Permanent Landscaping Irrigation, Complete SF Permanent Landscaping Irrigation, Complete SF Permennent Markings, Complete SF Pervement Markings, Complete SI Signage, Complete		UNIT PRICE	TOTAL COST
Traffic Control Construction Staging Erosion Control Removal of Structures and Obstructions LS General Earthworks General Earthworks CY Asphalt Roadway - Full Depth Asphalt Roadway - Full Depth SF Concrete Curbs - Standard Curb LF Concrete Curbs - Standard Curb Concrete Curbs - Standard Curb Concrete Curbs - Standard Curb SF Concrete Curbs - Standard Curb & Gutter Raised Concrete Island SF Truck Apron (Concrete) SF Concrete Cycle Track Separated Bicycle Facility - Asphalt SF Concrete Walks SF Separated Multi-Use Path - Concrete SF Separated Multi-Use Path - Asphalt SF Detectable Warnings EA Pedestrian Ramps EA EA Extra for Pedestrian Ramps EA EXTRA Ferical Proveway Reconstruction EA Extra for Pedestrian Ramps EA EXTRA Ferical Proveway Reconstruction EA EXTRA Ferical			
Construction Staging Erosion Control AC Removal of Structures and Obstructions LS Clearing and Grubbing General Earthworks Asphalt Roadway - Full Depth Asphalt Roadway - Full Depth SF Asphalt Roadway - Full Depth SF Subgrade Geotextile Concrete Roadway - Full Depth SF Subgrade Geotextile Concrete Curbs - Standard Curb Concrete Curbs - Standard Curb Concrete Urbs - Standard Curb Concrete Syr Concrete Syr Concrete Syr Concrete Syr Concrete Urbs - Standard Curb SF Concrete Walks SF Concrete Walks SF Separated Bicycle Facility - Asphalt SF Concrete Walks SF Separated Multi-Use Path - Concrete SF Separated Multi-Use Path - Asphalt SF Detectable Warnings EA Pedestrian Ramps EA EXTra for Ped	ALL	\$11,192,000.00	\$11,192,000.
Erosion Control Removal of Structures and Obstructions LS Clearing and Grubbing LS General Earthworks CY Asphalt Roadway - Full Depth SF Asphalt Roadway - Full Depth SF Concrete Roadway - Full Depth SF Subgrade Geotextile Concrete Curbs - Standard Curb Concrete Curbs - Standard Curb & Gutter Raised Concrete Island SF Truck Apron (Concrete) SF Concrete Walks Separated Bicycle Facility - Asphalt SF Separated Multi-Use Path - Concrete SF Detectable Warnings EA Pedestrian Ramps Bike Ramps EA Extra for Pedestrian Ramps EA Extra for Pedestrian Ramps EA Chain Link Fence Residential Driveway Reconstruction EA Retaining Walls, Gravity Retaining Walls, Gravity Retaining Walls, Gravity Fish Friendly Box Culvert, Complete Bridge Structure, Complete Bridge Structure, Complete Bridge Complete Perwanent Markings, Complete Pavement Markings, Complete SF Pavement Markings, Complete Pavement Markings, Complete LS Signage, Complete LS Signage, Complete LS Signage, Complete	ALL	\$8,971,000.00	\$8,971,000.
Removal of Structures and Obstructions Clearing and Grubbing General Earthworks Cry Asphalt Roadway - Full Depth Asphalt Roadway - Full Depth SF Asphalt Roadway - Full Depth SF Concrete Roadway - Full Depth SF Subgrade Geotextile Sry Concrete Curbs - Standard Curb Concrete Curbs - Standard Curb & Gutter Raised Concrete Island SF Truck Apron (Concrete) SF Separated Bicycle Facility - Asphalt Concrete Walks Separated Multi-Use Path - Concrete SF Separated Multi-Use Path - Asphalt SF Setedatian Ramps EA Extra for Pedestrian Ramps EA Extra for Pedestrian Ramps EA Chain Link Fence LF Residential Driveway Reconstruction EA Retaining Walls, Gravity SF Sound Walls SF SF Guardrail System, Complete Bridge Structure, Complete SF Permanent Landscaping Irrigation, Complete Pavement Markings, Complete SF Pavement Markings, Complete LS Signage, Complete LS Signage, Complete LS Signage, Complete LS	ALL	\$11,213,000.00	\$11,213,000
Clearing and Grubbing General Earthworks CY Asphalt Roadway - Full Depth SF Asphalt Roadway - Grind & Inlay (2" Depth) SF Concrete Roadway - Full Depth SF Concrete Roadway - Full Depth SF Concrete Roadway - Full Depth SF Concrete Curbs - Standard Curb Concrete Curbs - Standard Curb Concrete Curbs - Standard Curb & Gutter Raised Concrete Island Truck Apron (Concrete) SF Concrete Cycle Track Separated Bicycle Facility - Asphalt Separated Bicycle Facility - Asphalt SF Separated Multi-Use Path - Concrete SF Separated Multi-Use Path - Asphalt SF Detectable Warnings EA Bilke Ramps EA Bilke Ramps EA Chain Link Fence LF Residential Driveway Reconstruction EA Retaining Walls, Gravity SF Retaining Walls, Gravity SF Separated System, Complete Bridge Structure, Complete Bridge Structure, Complete SF Permanent Landscaping Irrigation, Complete Pavement Markings, Complete SF Irrigation, Complete Pavement Markings, Complete SF Frigitage, Complete	20.9	\$10,000.00	\$209,000
General Earthworks General Earthworks CY Asphalt Roadway - Full Depth Asphalt Roadway - Full Depth SF Concrete Roadway - Full Depth SF Subgrade Geotextile Concrete Curbs - Standard Curb Concrete Curbs - Standard Curb & Gutter Raised Concrete Island Truck Apron (Concrete) Concrete Cycle Track SF Separated Bicycle Facility - Asphalt Separated Multi-Use Path - Concrete SF Separated Multi-Use Path - Asphalt SF Detectable Warnings EA Pedestrian Ramps EA Extra for Pedestrian Ramps Chain Link Fence Residential Driveway Reconstruction EA Commercial Driveway Reconstruction EA Retaining Walls, Gravity Retaining Walls, Cut (Soldier pyle, tie back, soil nail) SF Regional Water Quality and Hydromodification System, Complete SF Regional Warkings, Complete Permanent Landscaping Irrigation, Complete Pavement Markings, Complete SF Pavement Markings, Complete Pavement Markings, Complete Pavement Markings, Complete SF Pavement Markings, Complete SF Pavement Markings, Complete SF Pavement Markings, Complete LS Signage, Complete LS Signage, Complete LS Signage, Complete LS Signage, Complete LS	ALL	\$1,092,000.00	\$1,092,000
Asphalt Roadway - Full Depth Asphalt Roadway - Grind & Inlay (2" Depth) SF Concrete Roadway - Grind & Inlay (2" Depth) SF Concrete Roadway - Full Depth SF Subgrade Geotextile SY Concrete Curbs - Standard Curb LF Concrete Curbs - Standard Curb & Gutter Raised Concrete Island SF Truck Apron (Concrete) SF Concrete Cycle Track SF Separated Bicycle Facility - Asphalt Concrete Walks SF Separated Multi-Use Path - Concrete SF Separated Multi-Use Path - Asphalt SF Detectable Warnings EA Pedestrian Ramps EA Bike Ramps EA Extra for Pedestrian Ramps EA Chain Link Fence Residential Driveway Reconstruction EA Commercial Driveway Reconstruction EA Retaining Walls, Gravity Retaining Walls, Gravity SF Sound Walls SF Sish Friendly Box Culvert, Complete Bridge Structure, Complete Bridge Structure, Complete SF Permanent Landscaping Irrigation, Complete SF Pavement Markings, Complete LS Signage, Complete LS	ALL	\$1,638,000.00	\$1,638,000
Asphalt Roadway - Grind & Inlay (2" Depth) Concrete Roadway - Full Depth SF Subgrade Geotextile Concrete Curbs - Standard Curb Concrete Curbs - Standard Curb & Gutter Raised Concrete Island SF Truck Apron (Concrete) Concrete Cycle Track Separated Bicycle Facility - Asphalt Concrete Walks SF Separated Multi-Use Path - Concrete SF Separated Multi-Use Path - Asphalt Detectable Warnings EA EA EXTra for Pedestrian Ramps EA Extra for Pedestrian Ramps EA Extra for Pedestrian Ramps EA Commercial Driveway Reconstruction Commercial Driveway Reconstruction EA Retaining Walls, Gravity Retaining Walls, Gravity SF Retaining Walls, Cut (Soldier pyle, tie back, soil nail) SF Guardrail System, Complete Bridge Structure, Complete Guardrail System, Complete Regional Water Quality and Hydromodification System, Complete SF Pavement Markings, Complete SF Pavement Markings, Complete SF Pavement Markings, Complete LS Signage, Complete LS	213,457	\$40.00	\$8,538,280
Concrete Roadway - Full Depth SF Subgrade Geotextile SY Concrete Curbs - Standard Curb Concrete Curbs - Standard Curb & Gutter Raised Concrete Island SF Truck Apron (Concrete) Concrete Cycle Track Separated Bicycle Facility - Asphalt Separated Bicycle Facility - Asphalt Separated Multi-Use Path - Concrete SF Separated Multi-Use Path - Asphalt SF SE Separated Multi-Use Path - Asphalt SF SE	701,578	\$9.20	\$6,454,517
Subgrade Geotextile SY Concrete Curbs - Standard Curb Concrete Curbs - Standard Curb & Gutter Raised Concrete Island Truck Apron (Concrete) SF Concrete Cycle Track Separated Bicycle Facility - Asphalt Concrete Walks Separated Multi-Use Path - Concrete SF Separated Multi-Use Path - Asphalt Detectable Warnings EA Pedestrian Ramps EA Bike Ramps EA Extra for Pedestrian Ramps EA Chain Link Fence LF Residential Driveway Reconstruction EA Commercial Driveway Reconstruction EA Retaining Walls, Gravity Retaining Walls, Cut (Soldier pyle, tie back, soil nail) SF Guardrail System, Complete Guardrail System, Complete SF Regional Water Quality and Hydromodification System, Complete Permanent Landscaping Irrigation, Complete SF Pavement Markings, Complete Signage, Complete LS Signage, Complete LS Signage, Complete LS		\$3.10	\$0.
Concrete Curbs - Standard Curb Concrete Curbs - Standard Curb & Gutter Raised Concrete Island SF Truck Apron (Concrete) Concrete Cycle Track Separated Bicycle Facility - Asphalt Concrete Walks Separated Multi-Use Path - Concrete SF Separated Multi-Use Path - Asphalt Detectable Warnings EA EA EA Extra for Pedestrian Ramps EA Chain Link Fence LF Residential Driveway Reconstruction EA Commercial Driveway Reconstruction EA Retaining Walls, Gravity Retaining Walls, Cut (Soldier pyle, tie back, soil nail) SF Guardrail System, Complete Bridge Structure, Complete SF Regional Water Quality and Hydromodification System, Complete Pavement Markings, Complete Signage, Complete LS	0	\$15.60	\$0.
Concrete Curbs - Standard Curb & Gutter Raised Concrete Island SF Truck Apron (Concrete) SF Concrete Cycle Track Separated Bicycle Facility - Asphalt Concrete Walks Separated Multi-Use Path - Concrete Separated Multi-Use Path - Asphalt SF Detectable Warnings EA Pedestrian Ramps EA Extra for Pedestrian Ramps EA Chain Link Fence LF Residential Driveway Reconstruction Commercial Driveway Reconstruction EA Retaining Walls, Gravity Retaining Walls, Cut (Soldier pyle, tie back, soil nail) SF Guardrail System, Complete Brige Structure, Complete SF Regional Water Quality and Hydromodification System, Complete Permanent Landscaping Irrigation, Complete SF Revement Markings, Complete LS Signage, Complete LS Signage, Complete LS Signage, Complete LS	77,954	\$1.50	\$116,931
Raised Concrete Island SF Truck Apron (Concrete) SF Concrete Cycle Track Separated Bicycle Facility - Asphalt Separated Multi-Use Path - Concrete Separated Multi-Use Path - Asphalt Separated Multi-Use Path - Asphalt SF Detectable Warnings EA Pedestrian Ramps EA Bike Ramps EA Extra for Pedestrian Ramps EA Extra for Pedestrian Ramps EA Chain Link Fence LF Residential Driveway Reconstruction EA Commercial Driveway Reconstruction EA Retaining Walls, Gravity SF Retaining Walls, MSE Retaining Walls, Cut (Soldier pyle, tie back, soil nail) SF Sound Walls Fish Friendly Box Culvert, Complete Bridge Structure, Complete SF Guardrail System, Complete SF Regional Water Quality and Hydromodification System, Complete SF Permanent Landscaping Irrigation, Complete SF Pavement Markings, Complete SI Signage, Complete LS Signage, Complete	0	\$30.90	\$0
Truck Apron (Concrete) Concrete Cycle Track Separated Bicycle Facility - Asphalt Concrete Walks Separated Multi-Use Path - Concrete Separated Multi-Use Path - Asphalt Detectable Warnings EA Pedestrian Ramps EA Extra for Pedestrian Ramps EA Chain Link Fence LF Residential Driveway Reconstruction EA Retaining Walls, Gravity Retaining Walls, Gravity SF Retaining Walls, Cut (Soldier pyle, tie back, soil nail) SF Sind Water Conveyance System, Complete Regional Water Quality and Hydromodification System, Complete Pavement Markings, Complete SF Retavenent Markings, Complete SF Revement Markings, Complete LS Signage, Complete LS Signage, Complete LS	13,440	\$36.70	\$493,248
Concrete Cycle Track Separated Bicycle Facility - Asphalt Concrete Walks Separated Multi-Use Path - Concrete Separated Multi-Use Path - Asphalt Separated Multi-Use Path - Asphalt Detectable Warnings EA Pedestrian Ramps EA Bike Ramps EA Extra for Pedestrian Ramps EA Chain Link Fence Residential Driveway Reconstruction EA Commercial Driveway Reconstruction EA Retaining Walls, Gravity SF Retaining Walls, MSE Retaining Walls, Cut (Soldier pyle, tie back, soil nail) SF Sound Walls SF Guardrail System, Complete LF Bridge Structure, Complete Strum Water Conveyance System, Complete Regional Water Quality and Hydromodification System, Complete SF Permanent Landscaping Irrigation, Complete SF Pavement Markings, Complete LS Signage, Complete	·	\$12.90	\$0
Concrete Cycle Track Separated Bicycle Facility - Asphalt Concrete Walks Separated Multi-Use Path - Concrete Separated Multi-Use Path - Asphalt Separated Multi-Use Path - Asphalt Detectable Warnings EA Pedestrian Ramps EA Bike Ramps EA Extra for Pedestrian Ramps EA Chain Link Fence Residential Driveway Reconstruction EA Commercial Driveway Reconstruction EA Retaining Walls, Gravity SF Retaining Walls, MSE Retaining Walls, Cut (Soldier pyle, tie back, soil nail) SF Sound Walls SF Guardrail System, Complete LF Bridge Structure, Complete Strum Water Conveyance System, Complete Regional Water Quality and Hydromodification System, Complete SF Permanent Landscaping Irrigation, Complete SF Pavement Markings, Complete LS Signage, Complete		\$19.30	\$0
Separated Bicycle Facility - Asphalt Concrete Walks SF Separated Multi-Use Path - Concrete SF Separated Multi-Use Path - Asphalt SF Detectable Warnings EA Pedestrian Ramps EA Bike Ramps EA Extra for Pedestrian Ramps EA Chain Link Fence LF Residential Driveway Reconstruction EA Retaining Walls, Gravity SF Retaining Walls, MSE Retaining Walls, Cut (Soldier pyle, tie back, soil nail) SF Sound Walls Fish Friendly Box Culvert, Complete Bridge Structure, Complete SF Guardrail System, Complete Storm Water Conveyance System, Complete Remanent Landscaping Irrigation, Complete SF Pavement Markings, Complete SI Signage, Complete LS Signage, Complete LS Signage, Complete LS Signage, Complete LS	0	\$8.40	\$0
Concrete Walks Separated Multi-Use Path - Concrete Separated Multi-Use Path - Asphalt Detectable Warnings EA Pedestrian Ramps EA Bike Ramps EA Extra for Pedestrian Ramps EA Chain Link Fence LF Residential Driveway Reconstruction EA Commercial Driveway Reconstruction EA Retaining Walls, Gravity SF Retaining Walls, Cut (Soldier pyle, tie back, soil nail) SF Sound Walls Fish Friendly Box Culvert, Complete Bridge Structure, Complete SF Guardrail System, Complete Storm Water Conveyance System, Complete Regional Water Quality and Hydromodification System, Complete SF Permanent Landscaping Irrigation, Complete SS Signage, Complete LS Signage, Complete LS	0	\$3.00	\$0
Separated Multi-Use Path - Concrete Separated Multi-Use Path - Asphalt Detectable Warnings EA Pedestrian Ramps EA Bike Ramps EA Extra for Pedestrian Ramps EA Chain Link Fence Residential Driveway Reconstruction EA Commercial Driveway Reconstruction EA Retaining Walls, Gravity SF Retaining Walls, MSE Retaining Walls, Cut (Soldier pyle, tie back, soil nail) SF Sound Walls SF Fish Friendly Box Culvert, Complete Bridge Structure, Complete SF Guardrail System, Complete LF Storm Water Conveyance System, Complete Regional Water Quality and Hydromodification System, Complete SF Permanent Landscaping Irrigation, Complete SS Signage, Complete LS Signage, Complete	80,640	\$8.40	\$677,376
Separated Multi-Use Path - Asphalt Detectable Warnings EA Pedestrian Ramps EA Bike Ramps EA Extra for Pedestrian Ramps EA Chain Link Fence LF Residential Driveway Reconstruction EA Commercial Driveway Reconstruction EA Retaining Walls, Gravity SF Retaining Walls, Out (Soldier pyle, tie back, soil nail) SF Sound Walls Fish Friendly Box Culvert, Complete Bridge Structure, Complete SF Guardrail System, Complete Storm Water Conveyance System, Complete Regional Water Quality and Hydromodification System, Complete SF Permanent Landscaping Irrigation, Complete SS Signage, Complete LS Signage, Complete	0	\$8.40	\$0
Detectable Warnings Pedestrian Ramps EA Bike Ramps EA Extra for Pedestrian Ramps EA Chain Link Fence Residential Driveway Reconstruction EA Commercial Driveway Reconstruction EA Retaining Walls, Gravity SF Retaining Walls, MSE Retaining Walls, Cut (Soldier pyle, tie back, soil nail) SF Sound Walls SF Fish Friendly Box Culvert, Complete Bridge Structure, Complete SF Guardrail System, Complete LF Storm Water Conveyance System, Complete Regional Water Quality and Hydromodification System, Complete SF Permanent Landscaping Irrigation, Complete SS Signage, Complete LS Signage, Complete	0	\$3.00	\$0
Pedestrian Ramps Bike Ramps EA Bike Ramps EA Extra for Pedestrian Ramps Chain Link Fence Residential Driveway Reconstruction EA Commercial Driveway Reconstruction EA Retaining Walls, Gravity Retaining Walls, MSE Retaining Walls, Cut (Soldier pyle, tie back, soil nail) SF Sound Walls Fish Friendly Box Culvert, Complete Bridge Structure, Complete SF Guardrail System, Complete LF Storm Water Conveyance System, Complete Regional Water Quality and Hydromodification System, Complete SF Permanent Landscaping Irrigation, Complete SS Signage, Complete LS Signage, Complete	8	\$500.00	\$4,000
Bike Ramps EA Extra for Pedestrian Ramps EA Chain Link Fence LF Residential Driveway Reconstruction EA Commercial Driveway Reconstruction EA Retaining Walls, Gravity SF Retaining Walls, MSE Retaining Walls, Cut (Soldier pyle, tie back, soil nail) SF Sound Walls SF Fish Friendly Box Culvert, Complete LF Bridge Structure, Complete SF Guardrail System, Complete LF Storm Water Conveyance System, Complete SF Permanent Landscaping SF Irrigation, Complete SF Pavement Markings, Complete LS Signage, Complete LS	8	\$7,500.00	\$60,000
Extra for Pedestrian Ramps Chain Link Fence Residential Driveway Reconstruction EA Commercial Driveway Reconstruction EA Retaining Walls, Gravity Retaining Walls, MSE Retaining Walls, Cut (Soldier pyle, tie back, soil nail) SF Sound Walls Fish Friendly Box Culvert, Complete Bridge Structure, Complete SF Guardrail System, Complete LF Storm Water Conveyance System, Complete Regional Water Quality and Hydromodification System, Complete SF Permanent Landscaping Irrigation, Complete SS Signage, Complete LS Signage, Complete		\$2,500.00	\$0
Chain Link Fence LF Residential Driveway Reconstruction EA Commercial Driveway Reconstruction EA Retaining Walls, Gravity SF Retaining Walls, MSE Retaining Walls, Cut (Soldier pyle, tie back, soil nail) SF Sound Walls SF Fish Friendly Box Culvert, Complete LF Bridge Structure, Complete SF Guardrail System, Complete LF Storm Water Conveyance System, Complete LS Regional Water Quality and Hydromodification System, Complete SF Permanent Landscaping SF Irrigation, Complete SF Pavement Markings, Complete LS Signage, Complete LS	8	\$1,500.00	\$12,000
Residential Driveway Reconstruction EA Commercial Driveway Reconstruction EA Retaining Walls, Gravity SF Retaining Walls, MSE Retaining Walls, Cut (Soldier pyle, tie back, soil nail) SF Sound Walls Fish Friendly Box Culvert, Complete LF Bridge Structure, Complete SF Guardrail System, Complete LF Storm Water Conveyance System, Complete LS Regional Water Quality and Hydromodification System, Complete SF Permanent Landscaping SF Irrigation, Complete SF Pavement Markings, Complete LS Signage, Complete LS		\$50.00	\$12,000
Commercial Driveway Reconstruction EA Retaining Walls, Gravity SF Retaining Walls, MSE Retaining Walls, Cut (Soldier pyle, tie back, soil nail) SF Sound Walls Signage, Complete EA SF SF SF SF SF SF SF SF SF S	0	\$1,500.00	\$0
Retaining Walls, Gravity Retaining Walls, MSE Retaining Walls, MSE Retaining Walls, Cut (Soldier pyle, tie back, soil nail) SF Sound Walls Fish Friendly Box Culvert, Complete Bridge Structure, Complete SF Guardrail System, Complete LF Storm Water Conveyance System, Complete Regional Water Quality and Hydromodification System, Complete SF Permanent Landscaping SF Irrigation, Complete SF Pavement Markings, Complete LS Signage, Complete	0	\$3,000.00	\$0
Retaining Walls, MSE Retaining Walls, Cut (Soldier pyle, tie back, soil nail) SF Sound Walls Fish Friendly Box Culvert, Complete Bridge Structure, Complete SF Guardrail System, Complete LF Storm Water Conveyance System, Complete Regional Water Quality and Hydromodification System, Complete SF Permanent Landscaping SF Irrigation, Complete SF Pavement Markings, Complete LS Signage, Complete	0	· · · · · · · · · · · · · · · · · · ·	
Retaining Walls, Cut (Soldier pyle, tie back, soil nail) SF Sound Walls Fish Friendly Box Culvert, Complete Bridge Structure, Complete SF Guardrail System, Complete LF Storm Water Conveyance System, Complete Regional Water Quality and Hydromodification System, Complete SF Permanent Landscaping SF Irrigation, Complete SF Pavement Markings, Complete LS Signage, Complete	24.050	\$55.00	\$0
Sound Walls Fish Friendly Box Culvert, Complete Bridge Structure, Complete SF Guardrail System, Complete LF Storm Water Conveyance System, Complete Regional Water Quality and Hydromodification System, Complete SF Permanent Landscaping SF Irrigation, Complete SF Pavement Markings, Complete LS Signage, Complete LS	21,050	\$200.00	\$4,210,000
Fish Friendly Box Culvert, Complete Bridge Structure, Complete Guardrail System, Complete Storm Water Conveyance System, Complete LS Regional Water Quality and Hydromodification System, Complete Permanent Landscaping SF Irrigation, Complete Pavement Markings, Complete Signage, Complete LS	10,238	\$300.00	\$3,071,400
Bridge Structure, Complete Guardrail System, Complete Storm Water Conveyance System, Complete Regional Water Quality and Hydromodification System, Complete Permanent Landscaping SF Irrigation, Complete Pavement Markings, Complete Signage, Complete LS	0	\$45.00	\$0.
Guardrail System, Complete Storm Water Conveyance System, Complete Regional Water Quality and Hydromodification System, Complete SF Permanent Landscaping SF Irrigation, Complete SF Pavement Markings, Complete LS Signage, Complete LS	404.050	\$1,000.00	\$0
Storm Water Conveyance System, Complete Regional Water Quality and Hydromodification System, Complete SF Permanent Landscaping SF Irrigation, Complete SF Pavement Markings, Complete LS Signage, Complete LS	164,050	\$450.00	\$73,822,500
Regional Water Quality and Hydromodification System, Complete SF Permanent Landscaping SF Irrigation, Complete SF Pavement Markings, Complete LS Signage, Complete LS	2,870	\$50.00	\$143,500
Permanent Landscaping SF Irrigation, Complete SF Pavement Markings, Complete LS Signage, Complete LS	ALL	\$4,907,000.00	\$4,907,000
Irrigation, Complete SF Pavement Markings, Complete LS Signage, Complete LS	81,600	\$28.00	\$2,284,800
Pavement Markings, Complete LS Signage, Complete LS	94,080	\$4.20	\$395,136
Signage, Complete LS	94,080	\$2.50	\$235,200
	ALL	\$328,000.00	\$328,000
	ALL	\$246,000.00	\$246,000
Illumination System, Complete LS	ALL	\$2,289,900.00	\$2,289,900
Traffic Signal Modifications, Complete LS	ALL		\$0
Traffic Signal System, Complete LS	ALL	\$900,000.00	\$900,000
Fiber Optic Interconnect System Complete LS	ALL		\$0
Utility Undergrounding, Complete LF	0	\$100.00	\$0.

South Stage Road Extension Plan I-4 Underpass O-4 Modified ODOT



Engineer's Conceptual Estimate

Prepared By: Eza Gaigalas & Emilio Calderon	Date: August 2024			
Reviewed By: Darren Hippenstiel, PE				
This Estimate has	This Estimate has a Rating of:		(See rating scale guide below.)	
ITEM	UNIT	TOTAL QUANTITY	UNIT PRICE	TOTAL COST
ENGINEERING SUPPORT				
Engineering & Construction Management	LS	ALL	\$35,877,000.00	\$35,877,000.00
Right-of-Way Support	EA	0	\$18,000.00	\$0.00
County Staff Time	YR		\$50,000.00	\$0.00
ENGINEERING SUPPORT SUBTOTAL				\$ 35,877,000
	\$ 179,384,523			
35% Contingency \$ 62				
	TOTAL	ESTIMATED P	ROJECT COST	\$ 242,169,113

Unit Costs Note:

The associated product and material costs are based upon the most recent available cost data. Due to the current volatility of the construction market, we cannot guarantee these costs for any duration of time.

Assumptions:

- The assumed roadway section is 8 inches ACP over 16 inches of compacted aggregate base.
- Due to the on-street bicycle facility the assumed storm inlet spacing is 150 feet.
- All overhead utilities will be relocated and remain above ground.
- No sound walls are required for this project.
- -

Scope Accuracy:

Level 1: Project scope well understood and well defined.

Level 2: Project scope conceptual. Scope lacks detail due to potential permit requirements; Unknown project conditions; limited knowledge of external impacts.

Level 3: Project scope is a "vision" with limited detail.

Engineering Effort:

Level A: Preliminary engineering performed. Technical information is available, engineering calculations have been performed; clear understanding of the materials size and quantities needed to execute job. Schedule understood; staff and permitting is fairly clear, (however this element may still need refining). Project Development & Construction Contingencies ranges between 10%-20%.

Level B: Conceptual engineering performed. Technical information is available, rough engineering calculations may have been performed, or similar information from previous similar work is compared and used. Project Development Contingencies ranges between 15% to 25% and Construction Contingencies ranges between 20% to 30%.