

US Highway 50/Missouri Flat Road Interchange Feasibility Study



Prepared for El Dorado County Department of Transportation



By



January 11, 2018



PROJECT ENGINEER DATE

Acceptance by:

El Dorado County Department of Transportation DATE

Table of Contents

Introduction	1
Purpose	1
Methodology	1
Key Considerations	2
Alternative Development	3
Short-Term Alternatives	3
Long-Term Alternatives	3
Alternatives Comparison	5
Programming	6
Recommendation	6
Attachments	6

Introduction

The interchange at Missouri Flat Road and US Highway 50 (US 50) was originally constructed in the 1970's with Type L-8 and Type L-1 configurations on the north and south sides, respectively. To accommodate increasing traffic demands, the interchange was reconstructed in 2008 (Phase 1) to include the following:

- 1) Type L-1 Configuration on both sides including widening of Missouri Flat Road to 6 total lanes (4 through and 2 left) and providing multi-lane ramps for sufficient vehicle storage at ramp intersections
- 2) New Overcrossing structure along Missouri Flat Road to accommodate additional lanes, Class 2 bicycle lanes, and sidewalks
- 3) Flexibility to accommodate a future upgrade (Phase 2) of the interchange to either of the following:
 - a. 6-Lane Tight Diamond – This would expand the Phase 1 configuration by widening Missouri Flat Road to 8 total lanes (6 through and 2 left) as well as adding additional storage lanes to the ramps. This future upgrade is known as Phase 2a.
 - b. Single Point Diamond (SPDI) configuration (Type L-13) – This would combine the ramp intersections into a single intersection in the center of the overcrossing structure. This future upgrade is known as Phase 2b. Phase 2a does not preclude the later construction of Phase 2b.

Purpose

The purpose of this analysis is to re-evaluate the configuration of Phase 2 based on updated funding availability and changes in Caltrans policies. With respect to the latter, Caltrans standards have changed since Phase 1 was constructed and standards on auxiliary lanes (300' minimum aux lane is now required) and the accommodation of pedestrians and bicycles have become more restrictive. In addition, the most updated Caltrans policies allow for a more expanded toolbox of interchange configurations such as the Diverging Diamond configuration. As a result, a re-evaluation of the Phase 2 configuration is appropriate to determine the optimal recommendation for the ultimate interchange configuration.

Methodology

The methodology of this analysis preserves the primary original project objective – to accommodate future growth in the most cost-effective manner. As a result, the existing overcrossing structure will not be reconstructed and right of way acquisition will be minimized or avoided, if possible.

The approach to this study includes the following:

- Consider all possible interchange configuration alternatives for Phase 2
- Screen alternative list based on fatal flaws such as inability to meet project objective or not feasible on an engineering basis.
- Develop remaining alternatives to a point where each can be evaluated based on performance and cost
- Compare alternatives based on value and provide a recommendation

Key Considerations

Several important factors should be considered during alternative development such as the following.

Existing Overcrossing Structure – The existing overcrossing bridge structure was constructed as part of Phase 1 to replace the original structure and is structurally adequate to remain in service for up to 75 years. It was also configured to accommodate a future expansion for a Phase 2a and/or 2b. As a result, it is important to preserve this structure and avoid its reconstruction.

Intersection Spacing – Providing adequate spacing between signalized intersections – both “ramp-to-ramp” and “ramp-to-local” – is an extremely important factor in minimizing congestion. The minimum standard Caltrans intersection spacing is 400’, while 500’ is preferred. The construction of Phase 1 improved the intersection spacing to Plaza Drive on the north side from 250’ to 500’, but did not change the 100’ spacing on the south side to Mother Lode Drive.

Adjacent Development – Several developments exist in the southwest quadrant of the interchange and abut directly to Missouri Flat Road such as Best Western Inn Hotel, Casa Ramos Restaurant, and Park & Ride lot. Each of these currently get their only access via Mother Lode Drive. It is possible to relocate the Park & Ride Lot to the southeast quadrant to the flat area adjacent to Perks Court. Considerable commercial development exists on the north side of the interchange including many shopping areas, fast food restaurants, and gas stations – all of which are accessible via Plaza Drive.

Motherlode Drive Relocation – To provide adequate intersection spacing on the south side of the interchange, Mother Lode Drive would require relocation at least 400’ southward (See Attachment A). However, this would require significant retaining walls due to the 80’ tall hillside in the southwest quadrant. Right of Way acquisition from the Best Western and Casa Ramos would be required as well. This relocation, though helpful in reducing congestion is costly (approximately \$7 Million) which alone exceeds the cost of most interchange alternatives considered in this analysis.

Southeast Quadrant – Perks Court is a frontage road that closely parallels the eastbound (EB) on-ramp and US 50 in the southeast quadrant of the interchange. The topography south of Perks Court drops off steeply down to 70’ below the grade of Perks Court and serves as a local low point in the area comprising of dense tree vegetation. It is anticipated that significant wetland presence exists in this area.

NB to EB Bypass Lane – The movement from northbound (NB) Missouri Flat Road to EB US 50 is served by a free right turn lane which bypasses the EB ramp intersection. Pedestrians must yield to vehicles while crossing this bypass lane. Updated Caltrans standards do not permit the use of free right turn lanes and as a result, any alternative that impacts this bypass lane would be required to either remove it or process a design exception.

Rejected Alternatives – Based on the above considerations, alternatives which exhibited any of the below characteristics were initially considered, but not developed for further consideration

- Loop off-ramps in Northwest (NW) Quadrant – Providing loops in the Northwest Quadrant would reduce the north intersection spacing from 500’ to 250’ – thereby severely reducing the effectiveness of the signal operations.
- Loop off-ramps in SE Quadrant – Providing loops in the SE Quadrant would require significant embankment and/or retaining walls in the local low area. There would also be excessive right of way and environmental impacts as well.
- Loop on-ramps in NE Quadrant – Providing loops in the NE Quadrant would require significant right of way acquisition from numerous commercial developments. Because

of the increase in footprint, there would be no opportunity for nearby relocation leading to a loss of local economic revenue.

These factors were considered fatal flaws and as a result rejected for inclusion in any further considered alternatives.

Alternative Development

Based on the project objectives and key considerations, the below alternatives were developed for further evaluation. All alternatives meet all Caltrans and County standards unless otherwise stated and provide standard Class 2 bicycle facilities and sidewalks.

Two types of alternatives were considered – short term and long term. The former are low cost alternatives designed to extend the period of acceptable traffic operations for the existing interchange by an incremental amount. Long term alternatives are intended to provide acceptable operations for the interchange for a period of at least 20 years. The implementation of short term alternatives do not preclude the implementation of long term alternatives. As a result, it is possible to implement a short term alternative and then at a later date replace it with a long term alternative.

Short-Term Alternatives

Short-term alternatives considered include the following:

Lane Reconfiguration #1 (See Attachment B)– This alternative restripes lanes on Missouri Flat Road from 12' in width to 11' to provide an additional NB lane as well as storage for the NB to WB on-ramp movement. This alternative extends the period of acceptable traffic operations for the existing interchange by approximately 5 years – well below the desired 20-year period of the project objectives. This project would require design exceptions for 11' lane widths as well as reduction of shoulders from 8' to 5'. Class 2 bike lanes would be reduced to 5', but is still considered a standard width.

Lane Reconfiguration #2 (See Attachment C)– This alternative restripes lanes on Missouri Flat Road from 12' in width to 11' to provide an additional SB lane as well as storage for the SB to EB on-ramp movement. This alternative extends the period of acceptable traffic operations for the existing interchange by approximately 3 years – well below the desired 20-year period of the project objectives. This project would require design exceptions for 11' lane widths as well as reduction of shoulders from 8' to 5'. Class 2 bike lanes would be reduced to 5', but is still considered a standard width.

Long-Term Alternatives

Long-term alternatives considered include the following:

Hook Ramps (See Attachment D)– This alternative replaces the existing EB Off-ramp with a Type L-6 configuration (aka “hook ramps”) connecting into Mother Lode Drive. Traffic operations are improved due to the removal of the 100' intersection spacing on the south side. The Park and Ride lot would require relocation to the SE quadrant. Due to the limited distance between the SB to EB & NB to EB on-ramps, a 300' auxiliary lane could not be accommodated and would require a design exception to Caltrans standards. In addition, the Type L-6 configuration is highly undesirable to Caltrans policies and as a result, the probability of the approval of this configuration is low.

Partial Cloverleaf (See Attachment E)– This alternative replaces the existing EB Off-ramp with a Type L-9 configuration (aka “Partial Cloverleaf”) requiring the relocation of Mother Lode Drive. Traffic operations are improved due to the removal of the 100' intersection spacing on the south side and the modification of the EB ramp intersection to a two-phase operation. The Park and Ride lot would

require relocation to the SE quadrant. Due to the limited distance between the SB to EB & NB to EB on-ramps, a 300' auxiliary lane could not be accommodated and would require a design exception to Caltrans standards. This configuration is highly desirable to Caltrans policies and as a result, the probability of the approval of this configuration is very high.

Roundabout Intersections (See Attachment F)– This alternative replaces the existing ramp intersections with unsignalized roundabouts. Mother Lode Drive would be preserved in its current configuration and connect into the EB ramp intersection on a fifth leg. As a result, traffic operations are improved due to the removal of the 100' intersection spacing on the south side and the general efficiencies of a roundabout as opposed to a conventional intersection. The Park and Ride lot would not require relocation. There is precedent for this configuration in the area and as a result, it is acceptable to Caltrans policies. The probability of the approval of this configuration is high.

Diverging Diamond (See Attachment G & H)– This alternative reconfigures Missouri Flat Road and the ramp intersections to a diverging diamond (DDI) configuration. The overcrossing structure would be widened to accommodate 6 lanes on Missouri Flat Road. Traffic operations are improved due to the general efficiencies of two-phase signals at the ramp intersections. The Park and Ride lot would not require relocation. Although there have been approximately 60 DDI's constructed in the United States, this configuration is relatively new to Caltrans as the first one in the state is being constructed in 2018. The probability of the approval of this configuration is high. Mother Lode Drive could either be preserved or relocated and as a result, two variations are considered for this configuration. In the event Mother Lode Drive remains, its access would be limited to right-in/right-out and a design exception for intersection spacing to Mother Lode Drive will be required.

6-Lane Tight Diamond (See Attachment I)– Also known as Phase 2a, this alternative is one of the possible ultimate configurations for Phase 2. It widens Missouri Flat Road to 8 total lanes (6 through and 2 left) and adds a lane onto each off-ramp. Traffic operations are improved due to the increased capacity. The Park and Ride lot would not require relocation. The overcrossing structure will require widening to add one lane on each side. The probability of the approval of this configuration is high, but will require a design exception for intersection spacing to Mother Lode Drive.

Single Point Diamond (See Attachment J)– Also known as Phase 2b, this alternative is one of the possible ultimate configurations for Phase 2. Traffic operations are improved due to the removal of the 100' intersection spacing on the south side, the increase of intersection spacing on the north side to 700', and the general efficiencies of combining the ramp intersections into a single point. The Park and Ride lot would not require relocation. The overcrossing structure will require widening to triple its current area which leads to a significant cost. The probability of the approval of this configuration is high as it has already gained Caltrans approval as part of Phase 1.

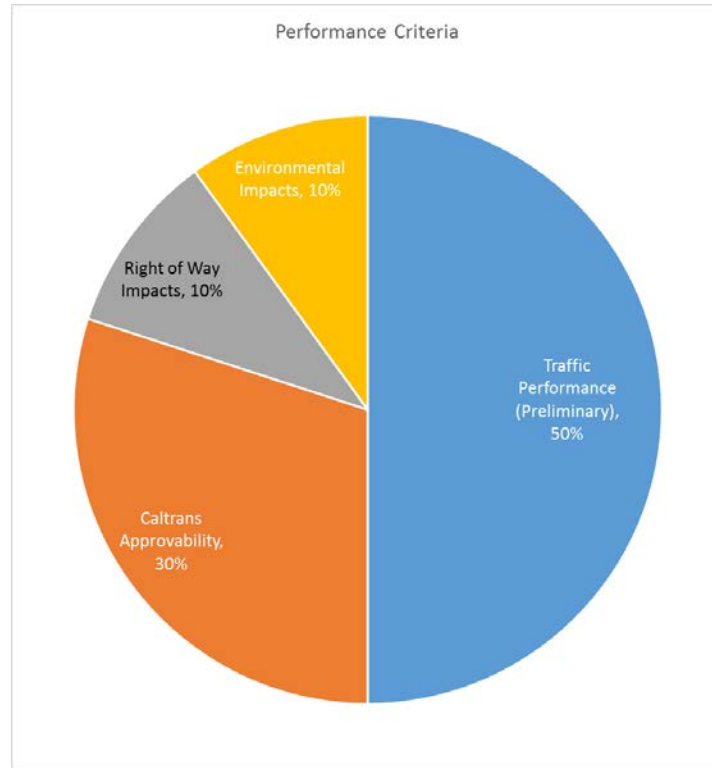
All long-term alternatives were developed for preliminary geometry, right of way impacts, environmental impacts, and cost.

Alternatives Comparison

The alternatives were compared to each other based on the following weighted criterion and a value index developed for each based on performance/cost.

$$(\text{Value Index} = \text{Performance}/\text{Cost})$$

First, the major performance criteria was defined as follows to determine the relative importance of each criterion.



Thereafter, the performance of each alternative was calculated. Finally, a value index score was determined to compare overall value of each alternative.

	Traffic Performance (Preliminary)	Caltrans Approvability	Right of Way Impacts	Environmental Impacts	Performance Score (1000 Max)	Cost	Value Index = (Score/Cost) *1,000,000
Weighting	50%	30%	10%	10%			
No-Build	1	10	10	10	550	\$0	N/A
Hook Ramps	6	1	6	6	450	\$3,000,000	150
Partial Cloverleaf	6	4	2	5	490	\$11,750,000	42
Diverging Diamond	7	8	9	8	760	\$4,600,000	165
Diverging Diamond (Relocate Mother Lode)	9	9	2	8	820	\$11,300,000	73
Roundabout	3	9	7	7	560	\$3,800,000	147
6-Lane Tight Diamond	5	9	9	8	690	\$4,500,000	153
Single Point Diamond	5	10	10	9	740	\$25,750,000	29

Programming

Additional Costs associated with further project development are shown below.

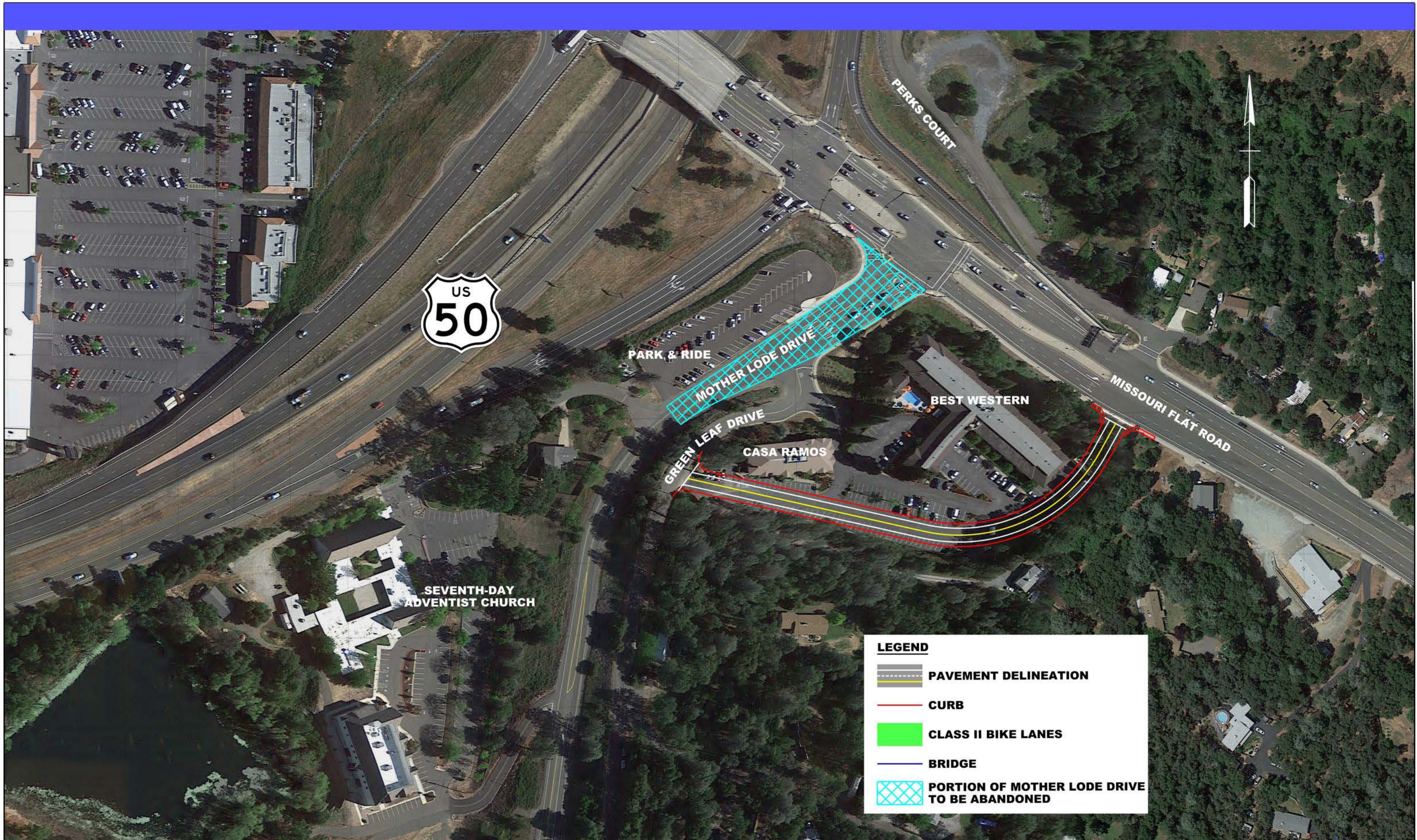
	Construction Cost	Project Management	Engineering (PR, PS&E)	Environmental Mitigation	Construction Management	Total Cost
Weighting		8%	30%	Varies	15%	
No-Build	\$0	\$0	\$0	\$0	\$0	\$0
Hook Ramps	\$3,000,000	\$240,000	\$900,000	\$120,000	\$450,000	\$4,710,000
Partial Cloverleaf	\$11,750,000	\$940,000	\$3,525,000	\$587,500	\$1,762,500	\$18,565,000
Diverging Diamond	\$4,600,000	\$368,000	\$1,380,000	\$92,000	\$690,000	\$7,130,000
Diverging Diamond (Relocate Mother Lode)	\$11,300,000	\$904,000	\$3,390,000	\$226,000	\$1,695,000	\$17,515,000
Roundabout	\$3,800,000	\$304,000	\$1,140,000	\$114,000	\$570,000	\$5,928,000
6-Lane Tight Diamond	\$4,500,000	\$360,000	\$1,350,000	\$90,000	\$675,000	\$6,975,000
Single Point Diamond	\$25,750,000	\$2,060,000	\$7,725,000	\$257,500	\$3,862,500	\$39,655,000

Recommendation

Based on this analysis, the Diverging Diamond (with no relocation of Mother Lode Drive) provides the best value and is significantly less costly than the SPDI alternative.

Attachments

- Attachment A – Mother Lode Drive Relocation
- Attachment B – Lane Reconfiguration #1
- Attachment C – Lane Reconfiguration #2
- Attachment D – Hook Ramps
- Attachment E – Partial Cloverleaf (with Mother Lode Relocation)
- Attachment F – Roundabouts
- Attachment G – Diverging Diamond
- Attachment H – Diverging Diamond (with Mother Lode Relocation)
- Attachment I – 6-Lane Tight Diamond
- Attachment J – Single Point Diamond
- Attachment K – Cost Estimates





LEGEND

-  PAVEMENT DELINEATION
-  CURB
-  CLASS II BIKE LANES
-  BRIDGE



EL DORADO COUNTY

US 50/MISSOURI FLAT ROAD INTERCHANGE - LANE RECONFIGURATION ALTERNATIVE 1

9/28/2017





LEGEND

-  PAVEMENT DELINEATION
-  CURB
-  CLASS II BIKE LANES
-  BRIDGE

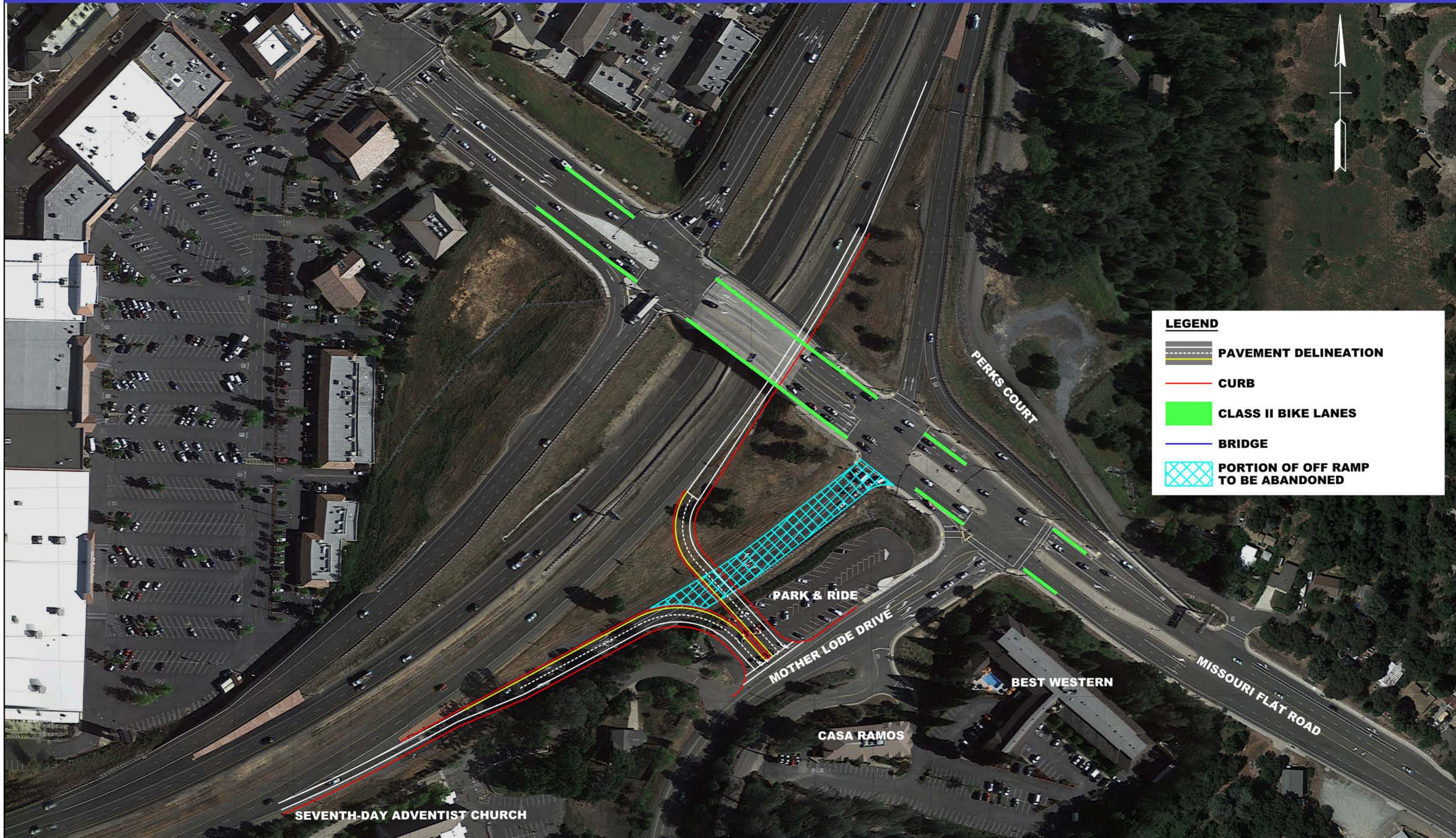


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US 50/MISSOURI FLAT ROAD INTERCHANGE - LANE RECONFIGURATION ALTERNATIVE 2

9/28/2017





LEGEND

-  PAVEMENT DELINEATION
-  CURB
-  CLASS II BIKE LANES
-  BRIDGE
-  PORTION OF OFF RAMP TO BE ABANDONED

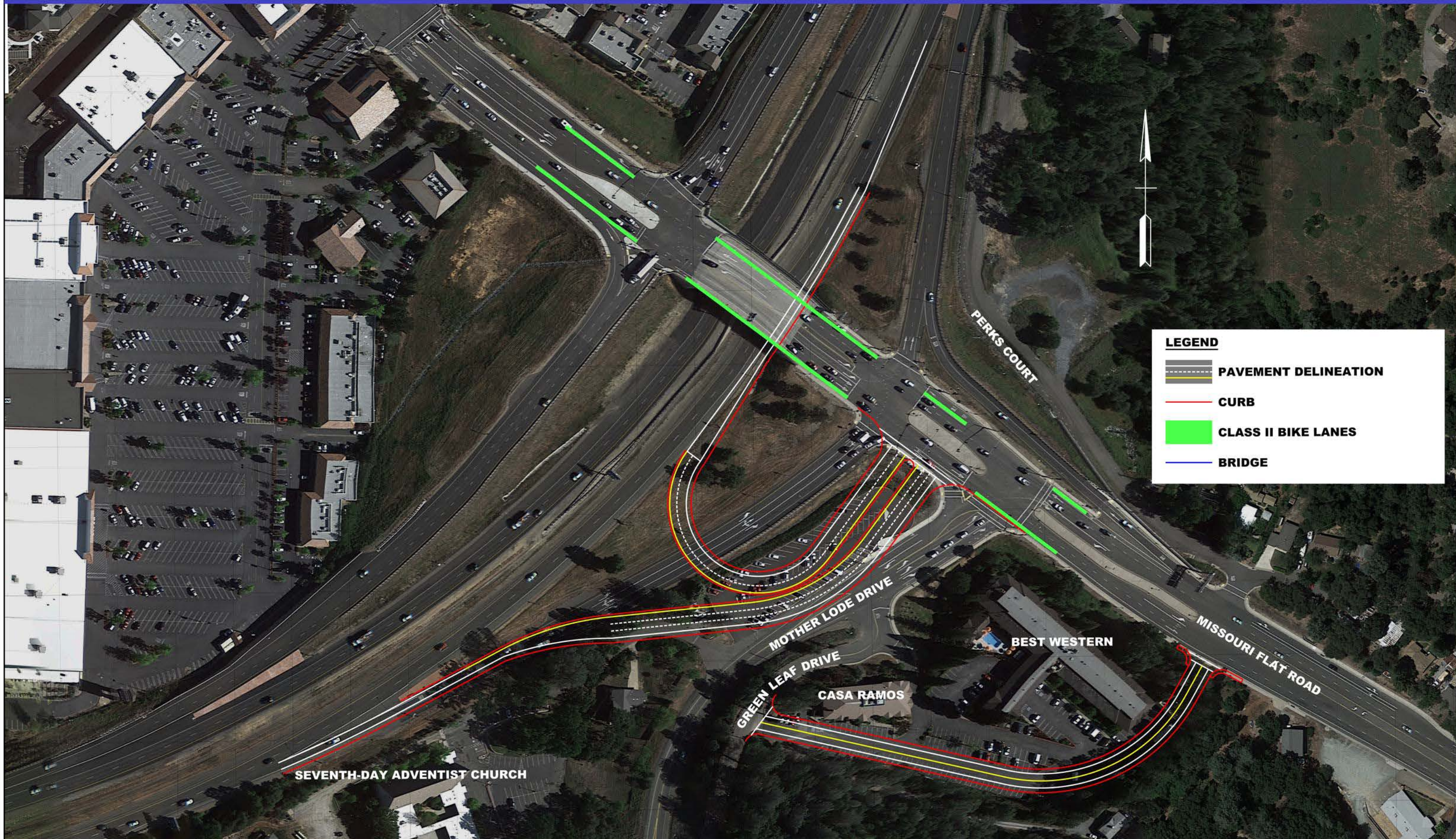


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US 50/MISSOURI FLAT ROAD INTERCHANGE - HOOK RAMPS

9/28/2017





LEGEND

-  PAVEMENT DELINEATION
-  CURB
-  CLASS II BIKE LANES
-  BRIDGE

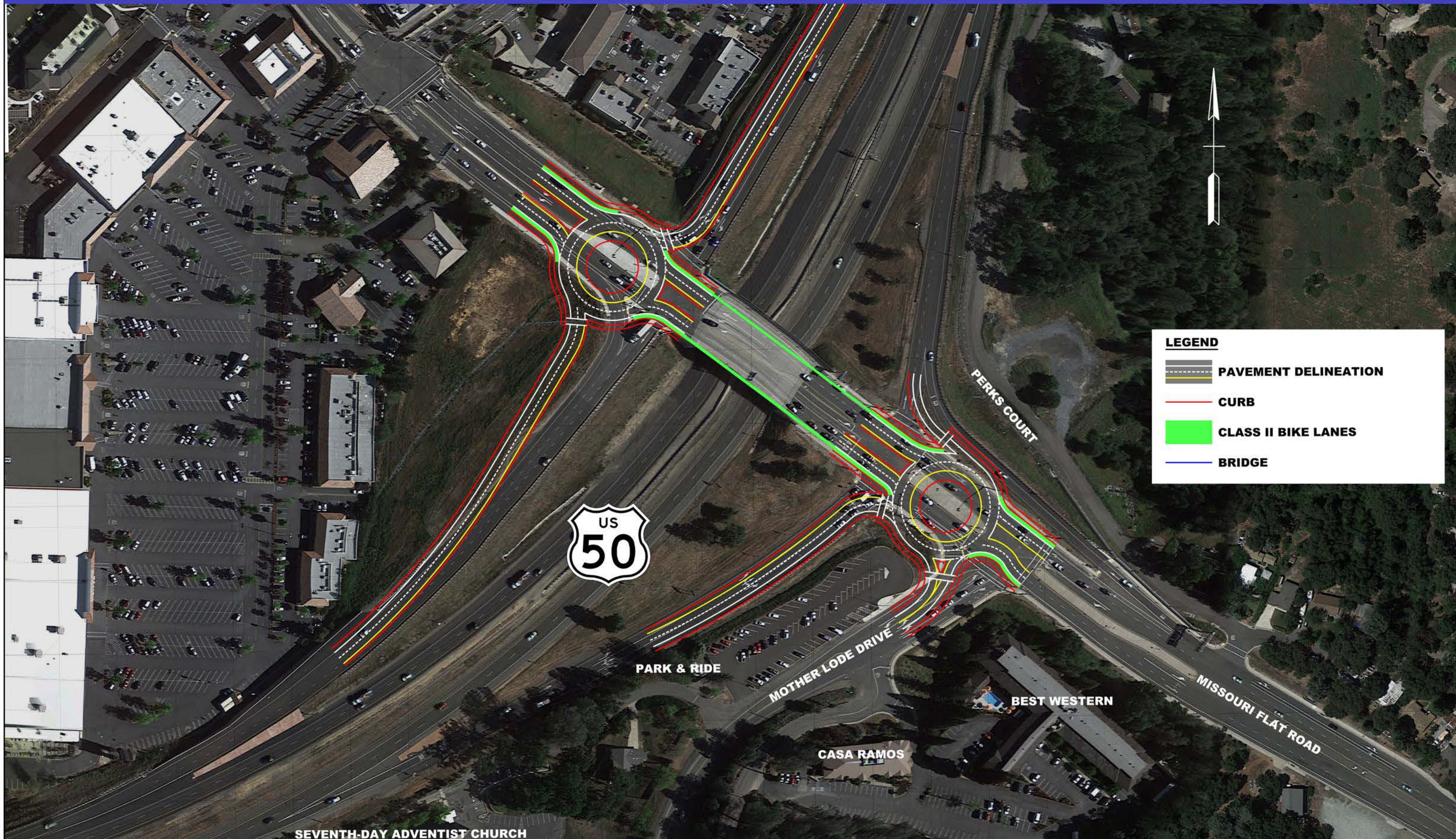


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US 50/MISSOURI FLAT ROAD INTERCHANGE - PARTIAL CLOVERLEAF INTERCHANGE

9/28/2017





LEGEND	
	PAVEMENT DELINEATION
	CURB
	CLASS II BIKE LANES
	BRIDGE

SEVENTH-DAY ADVENTIST CHURCH

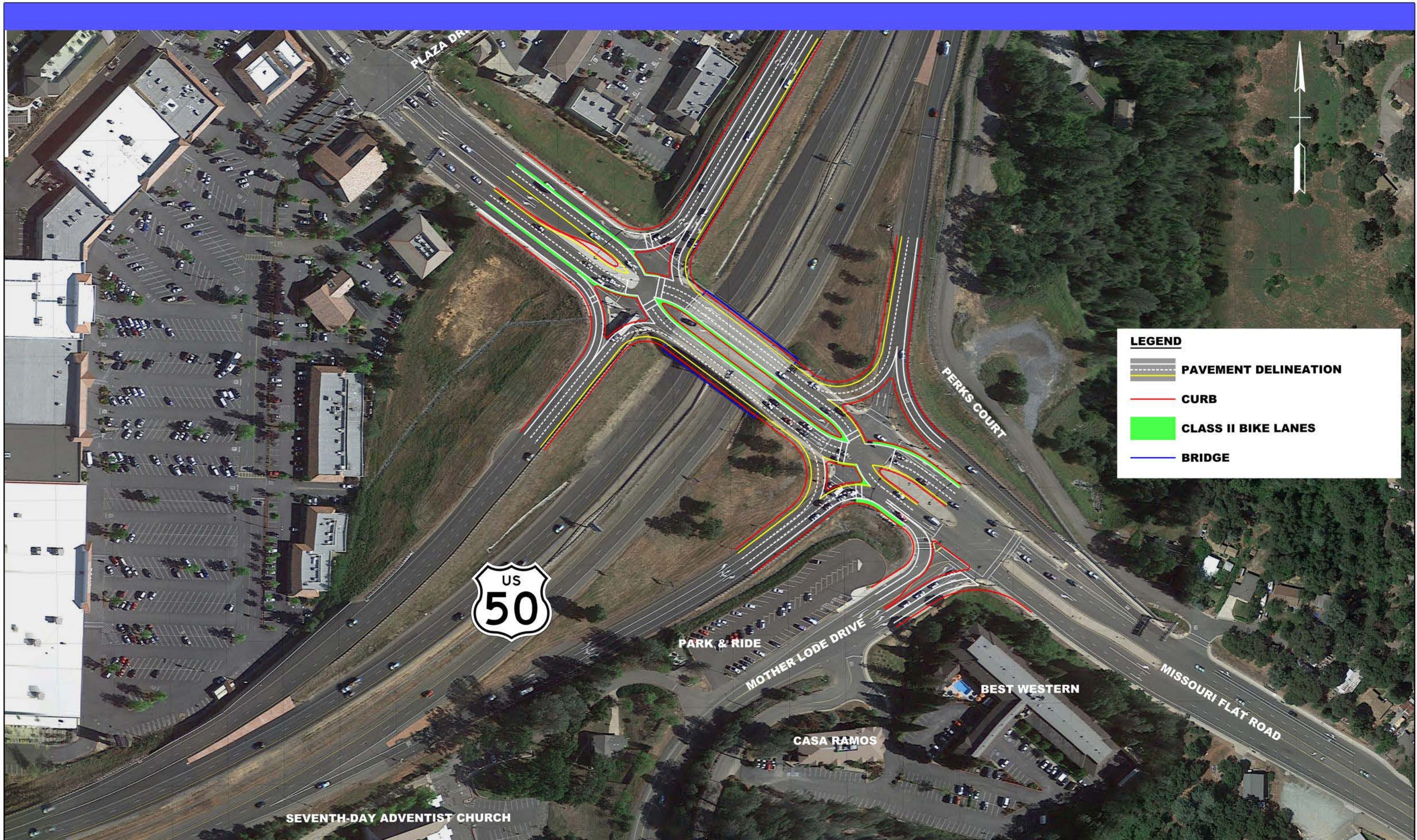


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US 50/MISSOURI FLAT ROAD INTERCHANGE - ROUNDABOUTS

9/28/2017



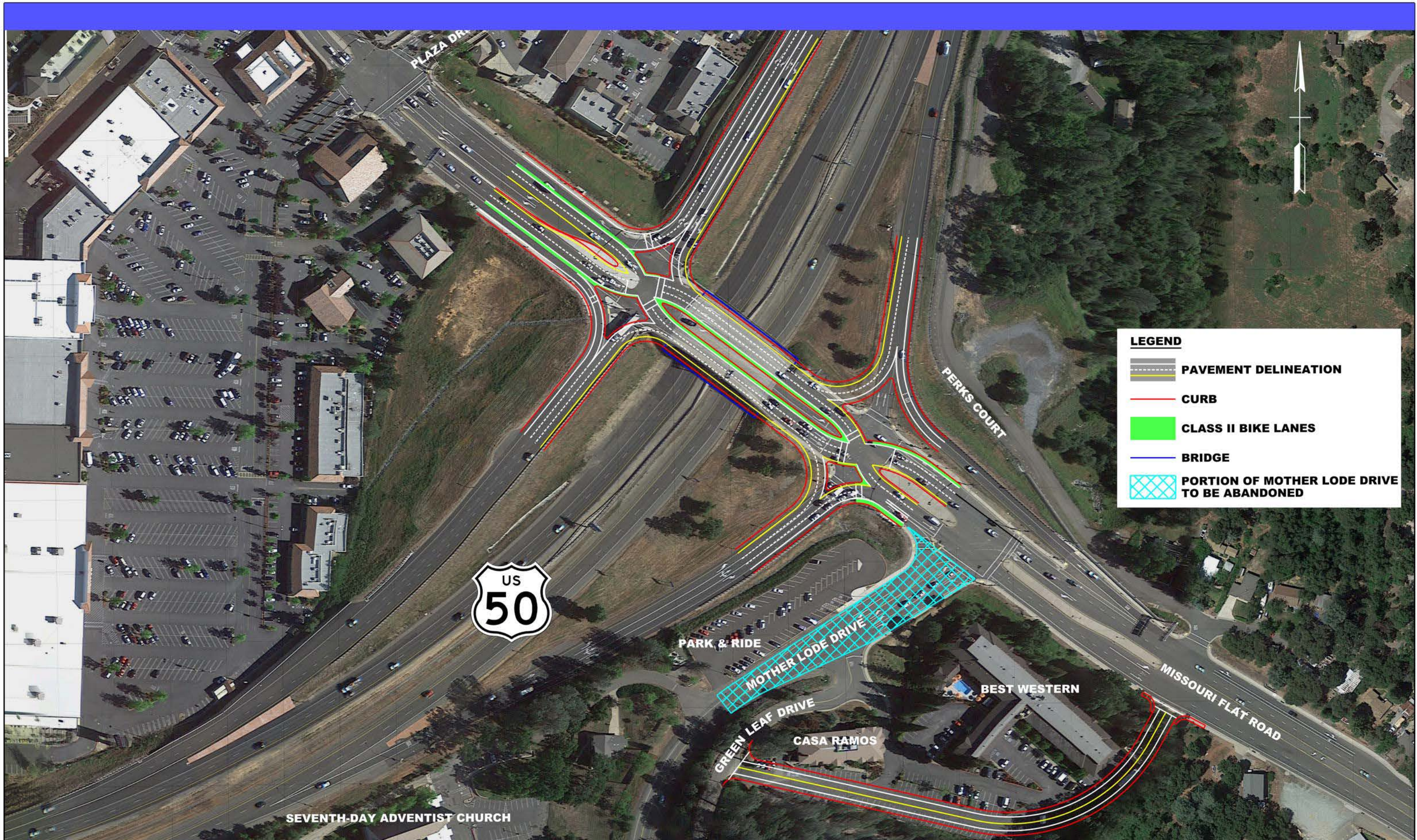


EL DORADO COUNTY

US 50/MISSOURI FLAT ROAD INTERCHANGE - DIVERGING DIAMOND INTERCHANGE

9/28/2017





LEGEND

-  PAVEMENT DELINEATION
-  CURB
-  CLASS II BIKE LANES
-  BRIDGE
-  PORTION OF MOTHER LODE DRIVE TO BE ABANDONED

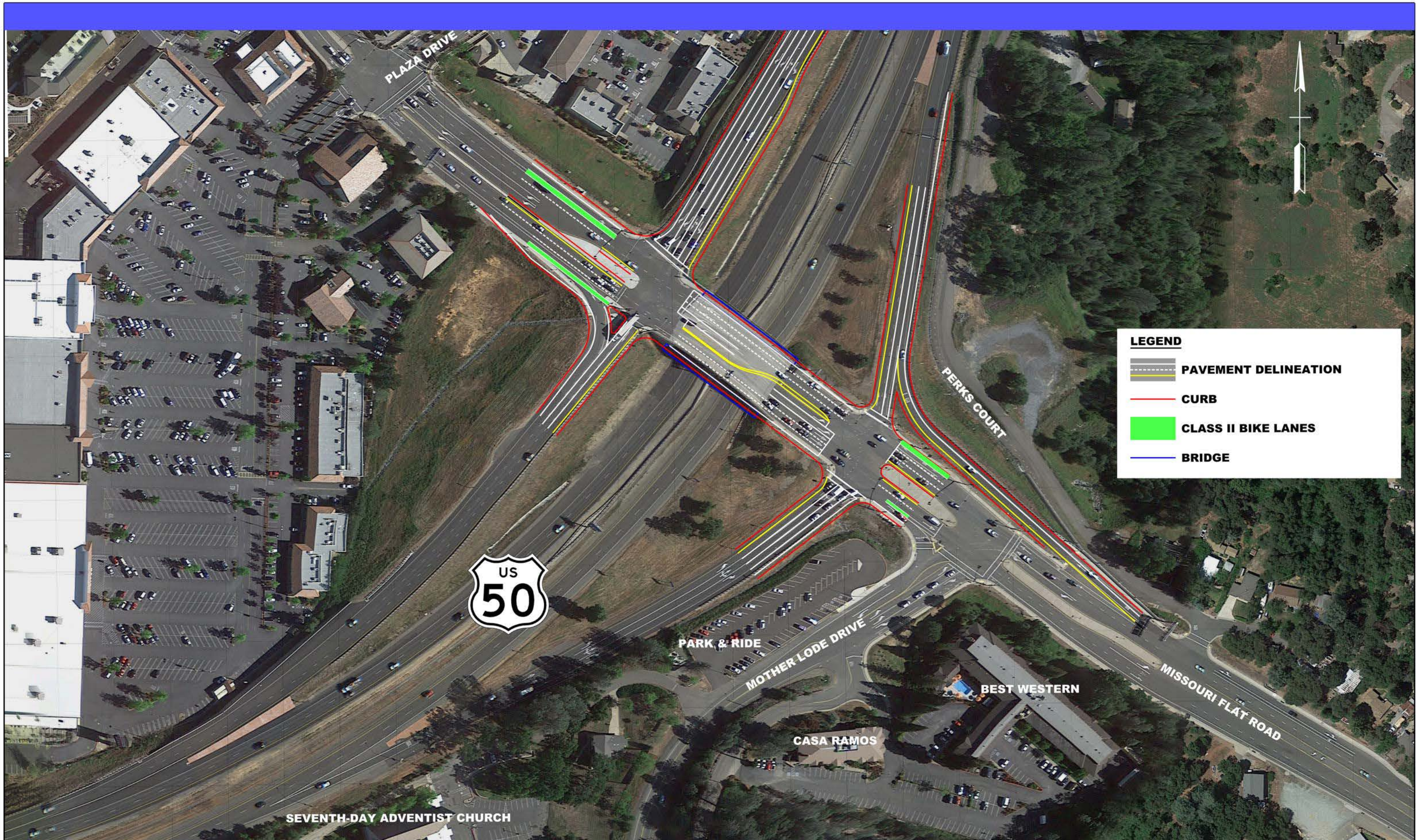


EL DORADO COUNTY

US 50/MISSOURI FLAT ROAD INTERCHANGE - DIVERGING DIAMOND INTERCHANGE (RELOCATE MOTHER LODE DRIVE)

9/28/2017





LEGEND

-  PAVEMENT DELINEATION
-  CURB
-  CLASS II BIKE LANES
-  BRIDGE



EL DORADO COUNTY

US 50/MISSOURI FLAT ROAD INTERCHANGE - 6-LANE TIGHT DIAMOND INTERCHANGE (WIDENING)

7/20/2017





LEGEND

-  PAVEMENT DELINEATION
-  CURB
-  CLASS II BIKE LANES
-  BRIDGE



EL DORADO COUNTY

US 50/MISSOURI FLAT ROAD INTERCHANGE - SINGLE POINT DIAMOND INTERCHANGE

7/20/2017



Preliminary Cost Estimate

Project ID:

Type of Estimate :

Program Code :

Project Limits :

Description:

Scope :

Alternative : Lane Reconfiguration - Alternative 1

	Current Cost	Escalated Cost
ROADWAY ITEMS	\$ 674,400	\$ 674,400
STRUCTURE ITEMS	\$ -	\$ -
SUBTOTAL CONSTRUCTION COST	\$ 674,400	\$ 674,400
RIGHT OF WAY	\$ -	\$ -
TOTAL CAPITAL OUTLAY COST	\$ 675,000	\$ 675,000
PR/ED SUPPORT	\$ -	\$ -
PS&E SUPPORT	\$ -	\$ -
RIGHT OF WAY SUPPORT	\$ -	\$ -
CONSTRUCTION SUPPORT	\$ -	\$ -
TOTAL CAPITAL OUTLAY SUPPORT COST*	\$ -	\$ -
TOTAL PROJECT COST	\$ 675,000	\$ 675,000

If Project has been programmed enter Programmed Amount

\$ -

Date of Estimate (Month/Year) Month / Year /

Estimated Date of Construction Start (Month/Year) /

Number of Working Days Working Days

Estimated Mid-Point of Construction (Month/Year) Month / Year

Number of Plant Establishment Days Days

Estimated Project Schedule

PID Approval
PA/ED Approval
PS&E
RTL
Begin Construction

Approved by Project
Manager

(xxx) xxx-xxxx

Project Manager

Date

Phone

I. ROADWAY ITEMS SUMMARY

Section	Cost
1 Earthwork	\$ -
2 Pavement Structural Section	\$ -
3 Drainage	\$ -
4 Specialty Items	\$ 144,000
5 Environmental	\$ -
6 Traffic Items	\$ 350,000
7 Detours	\$ -
8 Minor Items	\$ -
9 Roadway Mobilization	\$ -
10 Supplemental Work	\$ 24,700
11 State Furnished	\$ -
12 Contingencies	\$ 155,700
13 Overhead	\$ -
TOTAL ROADWAY ITEMS	\$ 674,400

Estimate Prepared By _____
Name and Title
Date
Phone

Estimate Reviewed By _____
Name and Title
Date
Phone

By signing this estimate you are attesting that you have discussed your project with all functional units and have incorporated all their comments or have discussed with them why they will not be incorporated.

SECTION 1: EARTHWORK

Item code	<i>Unit</i>	<i>Quantity</i>	<i>Unit Price (\$)</i>				<i>Cost</i>
Roadway Excavation	CY	0	40.00	=	\$	\$	-
				=	\$	\$	-
				=	\$	\$	-
				=	\$	\$	-
				=	\$	\$	-
				=	\$	\$	-
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				=	\$	\$	-

TOTAL EARTHWORK SECTION ITEMS	\$	-
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SECTION 2: PAVEMENT STRUCTURAL SECTION

Item code	<i>Unit</i>	<i>Quantity</i>	<i>Unit Price (\$)</i>				<i>Cost</i>
Pavement	SF	0	10.00	=	\$	\$	-
				=	\$	\$	-
				=	\$	\$	-
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				=	\$	\$	-

TOTAL STRUCTURAL SECTION ITEMS	\$	-
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SECTION 6: TRAFFIC ITEMS

6A - Traffic Electrical

Item code	Unit	Quantity		Unit Price (\$)	=	Cost	
Traffic Signal	EA	2	x	100,000.00	=	\$	200,000
			x		=	\$	-
			x		=	\$	-
			x		=	\$	-
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			x		=	\$	-
<u>Subtotal Traffic Electrical</u>							<u>\$ 200,000</u>

6B - Traffic Signing and Striping

Item code	Unit	Quantity		Unit Price (\$)	=	Cost	
Pavement Delineation	LS	1	x	25,000.00	=	\$	25,000
Roadside Signs	LS	1	x	5,000.00	=	\$	5,000
Overhead Signs	LS	1	x	100,000.00	=	\$	100,000
			x		=	\$	-
			x		=	\$	-
			x		=	\$	-
			x		=	\$	-
			x		=	\$	-
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			x		=	\$	-
<u>Subtotal Traffic Signing and Striping</u>							<u>\$ 130,000</u>

6C - Stage Construction and Traffic Handling

Item code	Unit	Quantity		Unit Price (\$)	=	Cost	
Traffic Control Systems	LS	1	x	20,000.00	=	\$	20,000
			x		=	\$	-
			x		=	\$	-
			x		=	\$	-
			x		=	\$	-
			x		=	\$	-
			x		=	\$	-
			x		=	\$	-
			x		=	\$	-
			x		=	\$	-
			x		=	\$	-
<u>Subtotal Stage Construction and Traffic Handling</u>							<u>\$ 20,000</u>

TOTAL TRAFFIC ITEMS	\$ 350,000
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SECTION 7: DETOURS

Include constructing, maintaining, and removal

Item code	Unit	Quantity	Unit Price (\$)	Cost
0713XX Temporary Fence (Type X)	LF	x	= \$	-
07XXXX Temporary Drainage	LS	x	= \$	-
120143 Temporary Pavement Delineation	LF	x	= \$	-
1286XX Temporary Signals	EA	x	= \$	-
129000 Temporary Railing (Type K)	LF	x	= \$	-
190101 Roadway Excavation	CY	x	= \$	-
198001 Imported Borrow	CY	x	= \$	-
198050 Embankment	CY	x	= \$	-
250401 Class 4 Aggregate Subbase	CY	x	= \$	-
260201 Class 2 Aggregate Base	CY	x	= \$	-
390132 Hot Mix Asphalt (Type A)	TON	x	= \$	-
XXXXXX Some Item	LS	x	= \$	-
TOTAL DETOURS				\$ -

SUBTOTAL SECTIONS 1-7 \$ 494,000

SECTION 8: MINOR ITEMS

8A - Americans with Disabilities Act Items

ADA Items 0.0% \$ -

8B - Bike Path Items

Bike Path Items 0.0% \$ -

8C - Other Minor Items

Other Minor Items 0.0% \$ -

Total of Section 1-7 \$ 494,000 x 0.0% = \$ -

TOTAL MINOR ITEMS \$ -

SECTIONS 9: MOBILIZATION

Item code	Quantity	Unit Price (\$)	Cost
999990 Total Section 1-8	\$ 494,000	x 10%	= \$ -
TOTAL MOBILIZATION			\$ -

SECTION 10: SUPPLEMENTAL WORK

Item code	Unit	Quantity	Unit Price (\$)	Cost
066015 Federal Trainee Program	LS	x	= \$	-
066063 Traffic Management Plan - Public Informatic	LS	x	= \$	-
066090 Maintain Traffic	LS	x	= \$	-
066094 Value Analysis	LS	x	= \$	-
066204 Remove Rock & Debris	LS	x	= \$	-
066222 Locate Existing Cross-Over	LS	x	= \$	-
066670 Payment Adjustments For Price Index Fluct	LS	x	= \$	-
066700 Partnering	LS	x	= \$	-
066866 Operation of Existing Traffic Management S	LS	x	= \$	-
066920 Dispute Review Board	LS	x	= \$	-
XXXXXX Some Item	LS	x	= \$	-

Cost of NPDES Supplemental Work specified in Section 5C = \$ -

Total Section 1-8 \$ 494,000 5% = \$ 24,700

TOTAL SUPPLEMENTAL WORK \$ 24,700

II. STRUCTURE ITEMS

Retaining Walls

DATE OF ESTIMATE	00/00/00	00/00/00	00/00/00
Building Name	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX
Bridge Number	57-XXX	57-XXX	57-XXX
Structure Type	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX
Width (Feet) [out to out]	LF	0.00 LF	0.00 LF
Total Building Length (Feet)	LF	0.00 LF	0.00 LF
Total Area (Square Feet)	0 SQFT	0 SQFT	0 SQFT
Structure Depth (Feet)	LF	0.00 LF	0.00 LF
Footing Type (pile or spread)	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX
Cost Per Square Foot	\$100.00	\$0.00	\$0.00

COST OF EACH STRUCTURE	\$0.00	\$0.00	\$0.00
-------------------------------	---------------	---------------	---------------

DATE OF ESTIMATE	00/00/00	00/00/00	00/00/00
Name	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX
Bridge Number	57-XXX	57-XXX	57-XXX
Structure Type	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX
Width (Feet) [out to out]	0.00 LF	0.00 LF	0.00 LF
Total Length (Feet)	0.00 LF	0.00 LF	0.00 LF
Total Area (Square Feet)	0 SQFT	0.00 SQFT	0.0 SQFT
Structure Depth (Feet)	0.00 LF	0.00 LF	0.00 LF
Footing Type (pile or spread)	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX
Cost Per Square Foot	\$0.00	\$0.00	\$0.00

COST OF EACH STRUCTURE	\$0.00	\$0.00	\$0.00
-------------------------------	---------------	---------------	---------------

TOTAL COST OF BRIDGES	\$0.00
------------------------------	---------------

TOTAL COST OF RETAINING	\$0.00
--------------------------------	---------------

TOTAL COST OF STRUCTURES¹	\$0.00
---------------------------------------------	---------------

Estimate Prepared By: _____
XXXXXXXXXXXXXXXXXXXX ----- Division of Structures

_____ Date

¹Structure's Estimate includes Overhead and Mobilization.
Add more sheets if needed. Call them 9a, 9b, 9c, ..., etc

DO NOT PRINT THIS SHEET AS PART OF COST ESTIMATE ATTACHMENT TO PROJECT INITIATION OR APPROVAL DOCUMENTS.

III. RIGHT OF WAY

Fill in all of the available information from the Right of Way data sheet.

A)	A1) Acquisition, including Excess Land Purchases, Damages & Goodwill,		\$	0
	A2) SB-1210		\$	0
B)	Acquisition of Offsite Mitigation		\$	0
C)	C1) Utility Relocation (State Share)		\$	0
	C2) Potholing (Design Phase)		\$	0
D)	Railroad Acquisition		\$	0
E)	Clearance / Demolition		\$	0
F)	Relocation Assistance (RAP and/or Last Resort Housing Costs)		\$	0
G)	Title and Escrow		\$	0
H)	Environmental Review		\$	0
I)	Condemnation Settlements	0%	\$	0
	(Items G & H applied to items A + B)			
J)	Design Appreciation Factor	0%	\$	0
K)	Utility Relocation (Construction Cost)		\$	0

L) **TOTAL RIGHT OF WAY ESTIMATE** **\$0**
(Excluding Item #8 - Hazardous Waste)

M) **TOTAL R/W ESTIMATE: Escalated** **\$0**

N) **Right of Way Support** **\$ 0**

Support Cost
Estimate Prepared By _____ Project Coordinator¹ _____ Phone _____

Utility Estimate
Prepared By _____ Utility Coordinator² _____ Phone _____

R/W Acquisition
Estimate Prepared By _____ Right of Way Estimator³ _____ Phone _____

¹ When estimate has Support Costs only ² When estimate has Utility Relocation

³ When R/W Acquisition is required

Preliminary Cost Estimate

Project ID:

Type of Estimate :

Program Code :

Project Limits :

Description:

Scope :

Alternative : Lane Reconfiguration - Alternative 2

	Current Cost	Escalated Cost
ROADWAY ITEMS	\$ 674,400	\$ 674,400
STRUCTURE ITEMS	\$ -	\$ -
SUBTOTAL CONSTRUCTION COST	\$ 674,400	\$ 674,400
RIGHT OF WAY	\$ -	\$ -
TOTAL CAPITAL OUTLAY COST	\$ 675,000	\$ 675,000
PR/ED SUPPORT	\$ -	\$ -
PS&E SUPPORT	\$ -	\$ -
RIGHT OF WAY SUPPORT	\$ -	\$ -
CONSTRUCTION SUPPORT	\$ -	\$ -
TOTAL CAPITAL OUTLAY SUPPORT COST*	\$ -	\$ -
TOTAL PROJECT COST	\$ 675,000	\$ 675,000

If Project has been programmed enter Programmed Amount

\$ -

Date of Estimate (Month/Year) Month / Year /

Estimated Date of Construction Start (Month/Year) /

Number of Working Days Working Days

Estimated Mid-Point of Construction (Month/Year) Month / Year

Number of Plant Establishment Days Days

Estimated Project Schedule

PID Approval
PA/ED Approval
PS&E
RTL
Begin Construction

Approved by Project
Manager

(xxx) xxx-xxxx

Project Manager

Date

Phone

I. ROADWAY ITEMS SUMMARY

Section		Cost
1	Earthwork	\$ -
2	Pavement Structural Section	\$ -
3	Drainage	\$ -
4	Specialty Items	\$ 144,000
5	Environmental	\$ -
6	Traffic Items	\$ 350,000
7	Detours	\$ -
8	Minor Items	\$ -
9	Roadway Mobilization	\$ -
10	Supplemental Work	\$ 24,700
11	State Furnished	\$ -
12	Contingencies	\$ 155,700
13	Overhead	\$ -
TOTAL ROADWAY ITEMS		\$ 674,400

Estimate Prepared By _____
Name and Title Date Phone

Estimate Reviewed By _____
Name and Title Date Phone

By signing this estimate you are attesting that you have discussed your project with all functional units and have incorporated all their comments or have discussed with them why they will not be incorporated.

SECTION 5: ENVIRONMENTAL

5A - ENVIRONMENTAL MITIGATION

Item code	Unit	Quantity	Unit Price (\$)	=	\$	Cost
						-
						-
<i>Subtotal Environmental</i>						\$ -

5B - LANDSCAPE AND IRRIGATION

Item code	Unit	Quantity	Unit Price (\$)	=	\$	Cost
Landscape and Irrigation	LS	0	50,000.00	=	\$	-
				=	\$	-
				=	\$	-
				=	\$	-
				=	\$	-
				=	\$	-
				=	\$	-
				=	\$	-
				=	\$	-
				=	\$	-
				=	\$	-
				=	\$	-
				=	\$	-
				=	\$	-
<i>Subtotal Landscape and Irrigation</i>						\$ -

5C - NPDES

Item code	Unit	Quantity	Unit Price (\$)	=	\$	Cost
				=	\$	-
				=	\$	-
				=	\$	-
				=	\$	-
				=	\$	-
				=	\$	-
				=	\$	-
				=	\$	-
				=	\$	-
				=	\$	-
				=	\$	-
				=	\$	-
				=	\$	-
				=	\$	-
				=	\$	-

Supplemental Work for NPDES

(These costs are not accounted in total here but under Supplemental Work on sheet 7 of 11).

				=	\$	-
				=	\$	-
				=	\$	-

Subtotal NPDES (Without Supplemental Work) \$ -

*Applies to all SWPPPs and those WPCPs with sediment control or soil stabilization BMPs.

**Applies to both SWPPPs and WPCP projects.

*** Applies only to project with SWPPPs.

TOTAL ENVIRONMENTAL	\$ -
----------------------------	-------------

SECTION 7: DETOURS

Include constructing, maintaining, and removal

Item code	Unit	Quantity	Unit Price (\$)	Cost
0713XX Temporary Fence (Type X)	LF	x	= \$	-
07XXXX Temporary Drainage	LS	x	= \$	-
120143 Temporary Pavement Delineation	LF	x	= \$	-
1286XX Temporary Signals	EA	x	= \$	-
129000 Temporary Railing (Type K)	LF	x	= \$	-
190101 Roadway Excavation	CY	x	= \$	-
198001 Imported Borrow	CY	x	= \$	-
198050 Embankment	CY	x	= \$	-
250401 Class 4 Aggregate Subbase	CY	x	= \$	-
260201 Class 2 Aggregate Base	CY	x	= \$	-
390132 Hot Mix Asphalt (Type A)	TON	x	= \$	-
XXXXXX Some Item	LS	x	= \$	-
TOTAL DETOURS				\$ -

SUBTOTAL SECTIONS 1-7 \$ 494,000

SECTION 8: MINOR ITEMS

8A - Americans with Disabilities Act Items

ADA Items 0.0% \$ -

8B - Bike Path Items

Bike Path Items 0.0% \$ -

8C - Other Minor Items

Other Minor Items 0.0% \$ -

Total of Section 1-7 \$ 494,000 x 0.0% = \$ -

TOTAL MINOR ITEMS \$ -

SECTIONS 9: MOBILIZATION

Item code	Quantity	Unit Price (\$)	Cost
999990 Total Section 1-8	\$ 494,000	x 10%	= \$ -
TOTAL MOBILIZATION			\$ -

SECTION 10: SUPPLEMENTAL WORK

Item code	Unit	Quantity	Unit Price (\$)	Cost
066015 Federal Trainee Program	LS	x	= \$	-
066063 Traffic Management Plan - Public Informatic	LS	x	= \$	-
066090 Maintain Traffic	LS	x	= \$	-
066094 Value Analysis	LS	x	= \$	-
066204 Remove Rock & Debris	LS	x	= \$	-
066222 Locate Existing Cross-Over	LS	x	= \$	-
066670 Payment Adjustments For Price Index Fluct	LS	x	= \$	-
066700 Partnering	LS	x	= \$	-
066866 Operation of Existing Traffic Management S	LS	x	= \$	-
066920 Dispute Review Board	LS	x	= \$	-
XXXXXX Some Item	LS	x	= \$	-

Cost of NPDES Supplemental Work specified in Section 5C = \$ -

Total Section 1-8 \$ 494,000 5% = \$ 24,700

TOTAL SUPPLEMENTAL WORK \$ 24,700

SECTION 11: STATE FURNISHED MATERIALS AND EXPENSES

Item code	Unit	Quantity	Unit Price (\$)	Cost
066063 Public Information	LS	x	=	\$0
066105 RE Office	LS	x	=	\$0
066803 Padlocks	LS	x	=	\$0
066838 Reflective Numbers and Edge Sealer	LS	x	=	\$0
066901 Water Expenses	LS	x	=	\$0
066062A COZEED Expenses	LS	x	=	\$0
06684X Ramp Meter Controller Assembly	LS	x	=	\$0
06684X TMS Controller Assembly	LS	x	=	\$0
06684X Traffic Signal Controller Assembly	LS	x	=	\$0
XXXXXX Some Item				

Total Section 1-8 \$ 494,000 0% = \$ -

TOTAL STATE FURNISHED	\$0
------------------------------	------------

SECTION 12: TIME-RELATED OVERHEAD

Estimated Time-Related Overhead (TRO) Percentage (0% to 10%) = 5%

Item code	Unit	Quantity	Unit Price (\$)	Cost
070018 Time-Related Overhead	WD	0	X #DIV/0!	= \$0

TOTAL TIME-RELATED OVERHEAD	\$0
------------------------------------	------------

SECTION 13: CONTINGENCY

(Pre-PSR 30%-50%, PSR 25%, Draft PR 20%, PR 15%, after PR approval 10%, Final PS&E 5%)

Total Section 1-11 \$ 518,700 x 30% = \$155,610

TOTAL CONTINGENCY	\$155,700
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II. STRUCTURE ITEMS

Retaining Walls

DATE OF ESTIMATE	00/00/00	00/00/00	00/00/00
Building Name	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX
Bridge Number	57-XXX	57-XXX	57-XXX
Structure Type	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX
Width (Feet) [out to out]	LF	0.00 LF	0.00 LF
Total Building Length (Feet)	LF	0.00 LF	0.00 LF
Total Area (Square Feet)	0 SQFT	0 SQFT	0 SQFT
Structure Depth (Feet)	LF	0.00 LF	0.00 LF
Footing Type (pile or spread)	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX
Cost Per Square Foot	\$100.00	\$0.00	\$0.00

COST OF EACH STRUCTURE	\$0.00	\$0.00	\$0.00
-------------------------------	---------------	---------------	---------------

DATE OF ESTIMATE	00/00/00	00/00/00	00/00/00
Name	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX
Bridge Number	57-XXX	57-XXX	57-XXX
Structure Type	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX
Width (Feet) [out to out]	0.00 LF	0.00 LF	0.00 LF
Total Length (Feet)	0.00 LF	0.00 LF	0.00 LF
Total Area (Square Feet)	0 SQFT	0.00 SQFT	0.0 SQFT
Structure Depth (Feet)	0.00 LF	0.00 LF	0.00 LF
Footing Type (pile or spread)	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX
Cost Per Square Foot	\$0.00	\$0.00	\$0.00

COST OF EACH STRUCTURE	\$0.00	\$0.00	\$0.00
-------------------------------	---------------	---------------	---------------

TOTAL COST OF BRIDGES	\$0.00
------------------------------	---------------

TOTAL COST OF RETAINING	\$0.00
--------------------------------	---------------

TOTAL COST OF STRUCTURES¹	\$0.00
---------------------------------------------	---------------

Estimate Prepared By: _____
XXXXXXXXXXXXXXXXXXXX ----- Division of Structures

_____ Date

¹Structure's Estimate includes Overhead and Mobilization.
Add more sheets if needed. Call them 9a, 9b, 9c, ..., etc

DO NOT PRINT THIS SHEET AS PART OF COST ESTIMATE ATTACHMENT TO PROJECT INITIATION OR APPROVAL DOCUMENTS.

III. RIGHT OF WAY

Fill in all of the available information from the Right of Way data sheet.

A)	A1) Acquisition, including Excess Land Purchases, Damages & Goodwill,		\$	0
	A2) SB-1210		\$	0
B)	Acquisition of Offsite Mitigation		\$	0
C)	C1) Utility Relocation (State Share)		\$	0
	C2) Potholing (Design Phase)		\$	0
D)	Railroad Acquisition		\$	0
E)	Clearance / Demolition		\$	0
F)	Relocation Assistance (RAP and/or Last Resort Housing Costs)		\$	0
G)	Title and Escrow		\$	0
H)	Environmental Review		\$	0
I)	Condemnation Settlements	0%	\$	0
	(Items G & H applied to items A + B)			
J)	Design Appreciation Factor	0%	\$	0
K)	Utility Relocation (Construction Cost)		\$	0

L) **TOTAL RIGHT OF WAY ESTIMATE** **\$0**
(Excluding Item #8 - Hazardous Waste)

M) **TOTAL R/W ESTIMATE: Escalated** **\$0**

N) **Right of Way Support** **\$ 0**

Support Cost
Estimate Prepared By _____ Project Coordinator¹ _____ Phone _____

Utility Estimate
Prepared By _____ Utility Coordinator² _____ Phone _____

R/W Acquisition
Estimate Prepared By _____ Right of Way Estimator³ _____ Phone _____

¹ When estimate has Support Costs only ² When estimate has Utility Relocation

³ When R/W Acquisition is required

DO NOT PRINT THIS SHEET AS PART OF COST ESTIMATE ATTACHMENT TO PROJECT INITIATION OR APPROVAL DOCUMENTS.

IV. SUPPORT COST ESTIMATE SUMMARY

Please obtain a P3 report (CL#3) from PPM to fill in the support cost for these categories.

SB-45 CATEGORY SUPPORT COST	PREVIOUS	FY 10/11	FY 11/12	FY 12/13	FY 13/14	FY 14/15	FY 15/16	FY 16/17	FY 17/18	FUTURE	P3 Total	Support Ratio
PR/ED (PD,PE,PM)											\$ -	0.00%
PS&E (PS)											\$ -	0.00%
R/W (RW)											\$ -	0.00%
CONSTRUCTION (CM)											\$ -	0.00%
Total Support Cost:	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	0.00%

Note: It is assumed that the Support Costs are already escalated by Programming to the year of expenditure. Use project Programming Sheet data.

Total Capital Cost:	\$675,000
Total Capital Outlay Support Cost:	\$0
Overall Percent Support Cost:	0.00%

V. ESCALATED CONSTRUCTION COST ESTIMATE SUMMARY

Note: Right of way escalated cost are accounted for on sheet 10 of 11.

Month / Year
 Date of Estimate (Month/Year) 0 / 0
 Estimated Date of Construction Start (Month/Year) 0 / 0
 Number of Working Days 0 WD
 Estimated Mid-Point of Construction (Month/Year) 0 / 0

YEAR	0	1	2	3	4	5	6	7	8	9	FUTURE
FORECASTED ESCALATION RATE*											

ESCALATED CONSTRUCTION COSTS	0	1	2	3	4	5	6	7	8	9	FUTURE	TOTAL ESCALATED COSTS
ROADWAY ITEMS	\$ 674,400	\$ 674,400	\$ 674,400	\$ 674,400	\$ 674,400	\$ 674,400	\$ 674,400	\$ 674,400	\$ 674,400	\$ 674,400	\$ 674,400	\$ 674,400
STRUCTURE ITEMS	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
SUBTOTAL	\$ 674,400	\$ 674,400	\$ 674,400	\$ 674,400	\$ 674,400	\$ 674,400	\$ 674,400	\$ 674,400	\$ 674,400	\$ 674,400	\$ 674,400	\$ 674,400

Approved by: _____ Project Control Engineer _____ Date _____

Preliminary Cost Estimate

Project ID:

Type of Estimate :

Program Code :

Project Limits :

Description:

Scope :

Alternative : Mother Lode Drive Realignment

	Current Cost	Escalated Cost
ROADWAY ITEMS	\$ 2,664,900	\$ 2,664,900
STRUCTURE ITEMS	\$ 3,600,000	\$ 3,600,000
SUBTOTAL CONSTRUCTION COST	\$ 6,264,900	\$ 6,264,900
RIGHT OF WAY	\$ 416,000	\$ -
TOTAL CAPITAL OUTLAY COST	\$ 6,681,000	\$ 6,265,000
PR/ED SUPPORT	\$ -	\$ -
PS&E SUPPORT	\$ -	\$ -
RIGHT OF WAY SUPPORT	\$ -	\$ -
CONSTRUCTION SUPPORT	\$ -	\$ -
TOTAL CAPITAL OUTLAY SUPPORT COST*	\$ -	\$ -
TOTAL PROJECT COST	\$ 6,700,000	\$ 6,300,000

If Project has been programmed enter Programmed Amount

\$ -

Date of Estimate (Month/Year) Month / Year /

Estimated Date of Construction Start (Month/Year) /

Number of Working Days Working Days

Estimated Mid-Point of Construction (Month/Year) Month / Year

Number of Plant Establishment Days Days

Estimated Project Schedule

PID Approval
PA/ED Approval
PS&E
RTL
Begin Construction

Approved by Project
Manager

(xxx) xxx-xxxx

Project Manager

Date

Phone

I. ROADWAY ITEMS SUMMARY

Section		Cost
1	Earthwork	\$ 1,216,000
2	Pavement Structural Section	\$ 351,000
3	Drainage	\$ 350,000
4	Specialty Items	\$ 35,200
5	Environmental	\$ -
6	Traffic Items	\$ -
7	Detours	\$ -
8	Minor Items	\$ -
9	Roadway Mobilization	\$ -
10	Supplemental Work	\$ 97,700
11	State Furnished	\$ -
12	Contingencies	\$ 615,000
13	Overhead	\$ -
TOTAL ROADWAY ITEMS		\$ 2,664,900

Estimate Prepared By _____
 Name and Title Date Phone

Estimate Reviewed By _____
 Name and Title Date Phone

By signing this estimate you are attesting that you have discussed your project with all functional units and have incorporated all their comments or have discussed with them why they will not be incorporated.

PRELIMINARY
PROJECT COST ESTIMATE

SECTION 1: EARTHWORK

Item code	Unit	Quantity	Unit Price (\$)	Cost
Roadway Excavation	CY	30,400	x 40.00	= \$ 1,216,000
			x	= \$ -
			x	= \$ -
			x	= \$ -
			x	= \$ -
			x	= \$ -
			x	= \$ -
			x	= \$ -
			x	= \$ -
			x	= \$ -
			x	= \$ -
			x	= \$ -

TOTAL EARTHWORK SECTION ITEMS \$ 1,216,000

SECTION 2: PAVEMENT STRUCTURAL SECTION

Item code	Unit	Quantity	Unit Price (\$)	Cost
Pavement	SF	35,100	x 10.00	= \$ 351,000
			x	= \$ -
			x	= \$ -
			x	= \$ -
			x	= \$ -
			x	= \$ -
			x	= \$ -
			x	= \$ -
			x	= \$ -
			x	= \$ -
			x	= \$ -
			x	= \$ -
			x	= \$ -
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			x	= \$ -
			x	= \$ -
			x	= \$ -
			x	= \$ -
			x	= \$ -
			x	= \$ -
			x	= \$ -
			x	= \$ -

TOTAL STRUCTURAL SECTION ITEMS \$ 351,000

SECTION 5: ENVIRONMENTAL

5A - ENVIRONMENTAL MITIGATION

Item code	Unit	Quantity	Unit Price (\$)	Cost
		X	= \$	-
		X	= \$	-
<u>Subtotal Environmental</u>				<u>\$ -</u>

5B - LANDSCAPE AND IRRIGATION

Item code	Unit	Quantity	Unit Price (\$)	Cost
		X	= \$	-
		X	= \$	-
		X	= \$	-
		X	= \$	-
		X	= \$	-
		X	= \$	-
		X	= \$	-
		X	= \$	-
		X	= \$	-
		X	= \$	-
		X	= \$	-
		X	= \$	-
		X	= \$	-
		X	= \$	-
<u>Subtotal Landscape and Irrigation</u>				<u>\$ -</u>

5C - NPDES

Item code	Unit	Quantity	Unit Price (\$)	Cost
		X	= \$	-
		X	= \$	-
		X	= \$	-
		X	= \$	-
		X	= \$	-
		X	= \$	-
		X	= \$	-
		X	= \$	-
		X	= \$	-
		X	= \$	-
		X	= \$	-
		X	= \$	-
		X	= \$	-
		X	= \$	-
		X	= \$	-

Supplemental Work for NPDES

(These costs are not accounted in total here but under Supplemental Work on sheet 7 of 11).

		X	= \$	-
		X	= \$	-
		X	= \$	-

Subtotal NPDES (Without Supplemental Work) \$ -

*Applies to all SWPPPs and those WPCPs with sediment control or soil stabilization BMPs.

**Applies to both SWPPPs and WPCP projects.

*** Applies only to project with SWPPPs.

TOTAL ENVIRONMENTAL	\$ -
----------------------------	-------------

SECTION 6: TRAFFIC ITEMS

6A - Traffic Electrical

Item code	Unit	Quantity	Unit Price (\$)	Cost
		X	= \$	-
		X	= \$	-
		X	= \$	-
		X	= \$	-
		X	= \$	-
		X	= \$	-
		X	= \$	-
		X	= \$	-
		X	= \$	-
		X	= \$	-
		X	= \$	-
		X	= \$	-
		X	= \$	-
		X	= \$	-
<u>Subtotal Traffic Electrical</u>				\$ -

6B - Traffic Signing and Striping

Item code	Unit	Quantity	Unit Price (\$)	Cost
		X	= \$	-
		X	= \$	-
		X	= \$	-
		X	= \$	-
		X	= \$	-
		X	= \$	-
		X	= \$	-
		X	= \$	-
		X	= \$	-
		X	= \$	-
		X	= \$	-
		X	= \$	-
		X	= \$	-
<u>Subtotal Traffic Signing and Striping</u>				\$ -

6C - Stage Construction and Traffic Handling

Item code	Unit	Quantity	Unit Price (\$)	Cost
		X	= \$	-
		X	= \$	-
		X	= \$	-
		X	= \$	-
		X	= \$	-
		X	= \$	-
		X	= \$	-
		X	= \$	-
		X	= \$	-
<u>Subtotal Stage Construction and Traffic Handling</u>				\$ -

TOTAL TRAFFIC ITEMS	\$ -
----------------------------	-------------

SECTION 7: DETOURS

Include constructing, maintaining, and removal

Item code	Unit	Quantity	Unit Price (\$)	Cost
0713XX Temporary Fence (Type X)	LF	x	= \$	-
07XXXX Temporary Drainage	LS	x	= \$	-
120143 Temporary Pavement Delineation	LF	x	= \$	-
1286XX Temporary Signals	EA	x	= \$	-
129000 Temporary Railing (Type K)	LF	x	= \$	-
190101 Roadway Excavation	CY	x	= \$	-
198001 Imported Borrow	CY	x	= \$	-
198050 Embankment	CY	x	= \$	-
250401 Class 4 Aggregate Subbase	CY	x	= \$	-
260201 Class 2 Aggregate Base	CY	x	= \$	-
390132 Hot Mix Asphalt (Type A)	TON	x	= \$	-
XXXXXX Some Item	LS	x	= \$	-
TOTAL DETOURS				\$ -

SUBTOTAL SECTIONS 1-7 \$ 1,952,200

SECTION 8: MINOR ITEMS

8A - Americans with Disabilities Act Items

ADA Items 0.0% \$ -

8B - Bike Path Items

Bike Path Items 0.0% \$ -

8C - Other Minor Items

Other Minor Items 0.0% \$ -

Total of Section 1-7 \$ 1,952,200 x 0.0% = \$ -

TOTAL MINOR ITEMS \$ -

SECTIONS 9: MOBILIZATION

Item code	Quantity	Unit Price (\$)	Cost
999990 Total Section 1-8	\$ 1,952,200	x 10%	= \$ -
TOTAL MOBILIZATION			\$ -

SECTION 10: SUPPLEMENTAL WORK

Item code	Unit	Quantity	Unit Price (\$)	Cost
066015 Federal Trainee Program	LS	x	= \$	-
066063 Traffic Management Plan - Public Informatic	LS	x	= \$	-
066090 Maintain Traffic	LS	x	= \$	-
066094 Value Analysis	LS	x	= \$	-
066204 Remove Rock & Debris	LS	x	= \$	-
066222 Locate Existing Cross-Over	LS	x	= \$	-
066670 Payment Adjustments For Price Index Fluct	LS	x	= \$	-
066700 Partnering	LS	x	= \$	-
066866 Operation of Existing Traffic Management S	LS	x	= \$	-
066920 Dispute Review Board	LS	x	= \$	-
XXXXXX Some Item	LS	x	= \$	-

Cost of NPDES Supplemental Work specified in Section 5C = \$ -

Total Section 1-8 \$ 1,952,200 5% = \$ 97,610

TOTAL SUPPLEMENTAL WORK \$ 97,700

SECTION 11: STATE FURNISHED MATERIALS AND EXPENSES

Item code	Unit	Quantity	Unit Price (\$)	Cost
066063 Public Information	LS	x	=	\$0
066105 RE Office	LS	x	=	\$0
066803 Padlocks	LS	x	=	\$0
066838 Reflective Numbers and Edge Sealer	LS	x	=	\$0
066901 Water Expenses	LS	x	=	\$0
066062A COZEED Expenses	LS	x	=	\$0
06684X Ramp Meter Controller Assembly	LS	x	=	\$0
06684X TMS Controller Assembly	LS	x	=	\$0
06684X Traffic Signal Controller Assembly	LS	x	=	\$0
XXXXXX Some Item				
Total Section 1-8		\$ 1,952,200	0% = \$	-

TOTAL STATE FURNISHED \$0

SECTION 12: TIME-RELATED OVERHEAD

Estimated Time-Related Overhead (TRO) Percentage (0% to 10%) = 5%

Item code	Unit	Quantity	Unit Price (\$)	Cost
070018 Time-Related Overhead	WD	0	X #DIV/0!	= \$0

TOTAL TIME-RELATED OVERHEAD \$0

SECTION 13: CONTINGENCY

(Pre-PSR 30%-50%, PSR 25%, Draft PR 20%, PR 15%, after PR approval 10%, Final PS&E 5%)

Total Section 1-11 \$ 2,049,900 x 30% = \$614,970

TOTAL CONTINGENCY \$615,000

II. STRUCTURE ITEMS

Retaining Walls

DATE OF ESTIMATE	00/00/00	00/00/00	00/00/00
Building Name	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX
Bridge Number	57-XXX	57-XXX	57-XXX
Structure Type	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX
Width (Feet) [out to out]	LF	0.00 LF	0.00 LF
Total Building Length (Feet)	LF	0.00 LF	0.00 LF
Total Area (Square Feet)	36000 SQFT	0 SQFT	0 SQFT
Structure Depth (Feet)	LF	0.00 LF	0.00 LF
Footing Type (pile or spread)	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX
Cost Per Square Foot	\$100.00	\$0.00	\$0.00

COST OF EACH STRUCTURE	\$3,600,000.00	\$0.00	\$0.00
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DATE OF ESTIMATE	00/00/00	00/00/00	00/00/00
Name	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX
Bridge Number	57-XXX	57-XXX	57-XXX
Structure Type	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX
Width (Feet) [out to out]	0.00 LF	0.00 LF	0.00 LF
Total Length (Feet)	0.00 LF	0.00 LF	0.00 LF
Total Area (Square Feet)	0 SQFT	0.00 SQFT	0.0 SQFT
Structure Depth (Feet)	0.00 LF	0.00 LF	0.00 LF
Footing Type (pile or spread)	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX
Cost Per Square Foot	\$0.00	\$0.00	\$0.00

COST OF EACH STRUCTURE	\$0.00	\$0.00	\$0.00
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TOTAL COST OF BRIDGES	\$0.00
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TOTAL COST OF RETAINING	\$3,600,000.00
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TOTAL COST OF STRUCTURES¹	\$3,600,000.00
---------------------------------------------	-----------------------

Estimate Prepared By: _____
XXXXXXXXXXXXXXXXXXXX ----- Division of Structures

_____ Date

¹Structure's Estimate includes Overhead and Mobilization.
Add more sheets if needed. Call them 9a, 9b, 9c, ..., etc

DO NOT PRINT THIS SHEET AS PART OF COST ESTIMATE ATTACHMENT TO PROJECT INITIATION OR APPROVAL DOCUMENTS.

III. RIGHT OF WAY

Fill in all of the available information from the Right of Way data sheet.

A)	A1) Acquisition, including Excess Land Purchases, Damages & Goodwill,		\$	0
	A2) SB-1210		\$	0
B)	Acquisition of Offsite Mitigation		\$	0
C)	C1) Utility Relocation (State Share)		\$	0
	C2) Potholing (Design Phase)		\$	0
D)	Railroad Acquisition		\$	0
E)	Clearance / Demolition		\$	0
F)	Relocation Assistance (RAP and/or Last Resort Housing Costs)		\$	0
G)	Title and Escrow		\$	0
H)	Environmental Review		\$	0
I)	Condemnation Settlements	0%	\$	0
	(Items G & H applied to items A + B)			
J)	Design Appreciation Factor	0%	\$	0
K)	Utility Relocation (Construction Cost)		\$	0

L)	TOTAL RIGHT OF WAY ESTIMATE	\$416,000
	(Excluding Item #8 - Hazardous Waste)	

M)	TOTAL R/W ESTIMATE: Escalated	\$0
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N)	Right of Way Support	\$	0
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Support Cost
Estimate Prepared By _____ Project Coordinator¹ _____ Phone _____

Utility Estimate
Prepared By _____ Utility Coordinator² _____ Phone _____

R/W Acquisition
Estimate Prepared By _____ Right of Way Estimator³ _____ Phone _____

¹ When estimate has Support Costs only ² When estimate has Utility Relocation

³ When R/W Acquisition is required

DO NOT PRINT THIS SHEET AS PART OF COST ESTIMATE ATTACHMENT TO PROJECT INITIATION OR APPROVAL DOCUMENTS.

IV. SUPPORT COST ESTIMATE SUMMARY

Please obtain a P3 report (CL:#3) from PPM to fill in the support cost for these categories.

SB-45 CATEGORY SUPPORT COST	PREVIOUS	FY 10/11	FY 11/12	FY 12/13	FY 13/14	FY 14/15	FY 15/16	FY 16/17	FY 17/18	FUTURE	P3 Total	Support Ratio
PR/ED (PD,PE,PM)											\$ -	0.00%
PS&E (PS)											\$ -	0.00%
R/W (RW)											\$ -	0.00%
CONSTRUCTION (CM)											\$ -	0.00%
Total Support Cost:	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	0.00%

Note: It is assumed that the Support Costs are already escalated by Programming to the year of expenditure. Use project Programming Sheet data.

Total Capital Cost:	\$6,681,000
Total Capital Outlay Support Cost:	\$0
Overall Percent Support Cost:	0.00%

V. ESCALATED CONSTRUCTION COST ESTIMATE SUMMARY

Note: Right of way escalated cost are accounted for on sheet 10 of 11.

Date of Estimate (Month/Year)	Month	/	Year
	0	/	0
Estimated Date of Construction Start (Month/Year)	0	/	0
Number of Working Days	0	WD	
Estimated Mid-Point of Construction (Month/Year)	0	/	0

YEAR	0	1	2	3	4	5	6	7	8	9	FUTURE	
FORECASTED ESCALATION RATE*												
ESCALATED CONSTRUCTION COSTS											FUTURE	TOTAL ESCALATED COSTS
ROADWAY ITEMS	\$ 2,664,900	\$ 2,664,900	\$ 2,664,900	\$ 2,664,900	\$ 2,664,900	\$ 2,664,900	\$ 2,664,900	\$ 2,664,900	\$ 2,664,900	\$ 2,664,900	\$ 2,664,900	\$ 2,664,900
STRUCTURE ITEMS	\$ 3,600,000	\$ 3,600,000	\$ 3,600,000	\$ 3,600,000	\$ 3,600,000	\$ 3,600,000	\$ 3,600,000	\$ 3,600,000	\$ 3,600,000	\$ 3,600,000	\$ 3,600,000	\$ 3,600,000
SUBTOTAL	\$ 6,264,900	\$ 6,264,900	\$ 6,264,900	\$ 6,264,900	\$ 6,264,900	\$ 6,264,900	\$ 6,264,900	\$ 6,264,900	\$ 6,264,900	\$ 6,264,900	\$ 6,264,900	\$ 6,264,900

Approved by: _____ Project Control Engineer _____ Date _____

Preliminary Cost Estimate

Project ID:

Type of Estimate :

Program Code :

Project Limits :

Description:

Scope :

Alternative : Hook Ramps

	Current Cost	Escalated Cost
ROADWAY ITEMS	\$ 2,585,000	\$ 2,585,000
STRUCTURE ITEMS	\$ 200,000	\$ 200,000
SUBTOTAL CONSTRUCTION COST	\$ 2,785,000	\$ 2,785,000
RIGHT OF WAY	\$ 200,000	\$ -
TOTAL CAPITAL OUTLAY COST	\$ 2,985,000	\$ 2,785,000
PR/ED SUPPORT	\$ -	\$ -
PS&E SUPPORT	\$ -	\$ -
RIGHT OF WAY SUPPORT	\$ -	\$ -
CONSTRUCTION SUPPORT	\$ -	\$ -
TOTAL CAPITAL OUTLAY SUPPORT COST*	\$ -	\$ -
TOTAL PROJECT COST	\$ 3,000,000	\$ 2,800,000

If Project has been programmed enter Programmed Amount

\$ -

Date of Estimate (Month/Year) Month / Year /

Estimated Date of Construction Start (Month/Year) /

Number of Working Days Working Days

Estimated Mid-Point of Construction (Month/Year) Month / Year

Number of Plant Establishment Days Days

Estimated Project Schedule

PID Approval
PA/ED Approval
PS&E
RTL
Begin Construction

Approved by Project
Manager

(xxx) xxx-xxxx

Project Manager

Date

Phone

I. ROADWAY ITEMS SUMMARY

Section		Cost
1	Earthwork	\$ 231,000
2	Pavement Structural Section	\$ 520,000
3	Drainage	\$ 150,000
4	Specialty Items	\$ 120,000
5	Environmental	\$ 90,000
6	Traffic Items	\$ 618,000
7	Detours	\$ -
8	Minor Items	\$ -
9	Roadway Mobilization	\$ 172,900
10	Supplemental Work	\$ 86,500
11	State Furnished	\$ -
12	Contingencies	\$ 596,600
13	Overhead	\$ -
TOTAL ROADWAY ITEMS		\$ 2,585,000

Estimate Prepared By

Name and Title Date Phone

Estimate Reviewed By

Name and Title Date Phone

By signing this estimate you are attesting that you have discussed your project with all functional units and have incorporated all their comments or have discussed with them why they will not be incorporated.

SECTION 1: EARTHWORK

Item code	Unit	Quantity		Unit Price (\$)		Cost
Roadway Excavation	CY	2,700	x	45.00	= \$	121,500
Imported Borrow	CY	5,300	x	15.00	= \$	79,500
Clearing and Grubbing	LS	1	x	30,000.00	= \$	30,000
			x		= \$	-
			x		= \$	-
			x		= \$	-
			x		= \$	-
			x		= \$	-
			x		= \$	-
			x		= \$	-
			x		= \$	-
			x		= \$	-

TOTAL EARTHWORK SECTION ITEMS	\$	231,000
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SECTION 2: PAVEMENT STRUCTURAL SECTION

Item code	Unit	Quantity		Unit Price (\$)		Cost
Pavement	SF	52,000	x	10.00	= \$	520,000
			x		= \$	-
			x		= \$	-
			x		= \$	-
			x		= \$	-
			x		= \$	-
			x		= \$	-
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			x		= \$	-
			x		= \$	-

TOTAL STRUCTURAL SECTION ITEMS	\$	520,000
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SECTION 3: DRAINAGE

Item code	Unit	Quantity	Unit Price (\$)		Cost
Drainage	LS	1	x 150,000.00	= \$	150,000
			x	= \$	-
			x	= \$	-
			x	= \$	-
			x	= \$	-
			x	= \$	-
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			x	= \$	-
			x	= \$	-
			x	= \$	-
			x	= \$	-

TOTAL DRAINAGE ITEMS \$ 150,000

SECTION 4: SPECIALTY ITEMS

Item code	Unit	Quantity	Unit Price (\$)		Cost
Guardrail	LF	1,000	x 20.00	= \$	20,000
Sidewalk, Curb, and Gutter	CY	125	x 800.00	= \$	100,000
			x	= \$	-
			x	= \$	-
			x	= \$	-
			x	= \$	-
			x	= \$	-
			x	= \$	-
			x	= \$	-
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			x	= \$	-
			x	= \$	-

TOTAL SPECIALTY ITEMS \$ 120,000

SECTION 6: TRAFFIC ITEMS

6A - Traffic Electrical

Item code	Unit	Quantity		Unit Price (\$)		Cost
Lighting	LS	1	x	80,000.00	= \$	80,000
Traffic Signal	EA	1	x	300,000.00	= \$	300,000
			x		= \$	-
			x		= \$	-
			x		= \$	-
			x		= \$	-
			x		= \$	-
			x		= \$	-
			x		= \$	-
			x		= \$	-
			x		= \$	-
			x		= \$	-
			x		= \$	-
			x		= \$	-
			x		= \$	-
			x		= \$	-
			x		= \$	-
			x		= \$	-
<u>Subtotal Traffic Electrical</u>						\$ 380,000

6B - Traffic Signing and Striping

Item code	Unit	Quantity		Unit Price (\$)		Cost
Pavement Delineation	LS	1	x	30,000.00	= \$	30,000
Roadside Signs	LS	1	x	8,000.00	= \$	8,000
Overhead Signs	EA	1	x	100,000.00	= \$	100,000
			x		= \$	-
			x		= \$	-
			x		= \$	-
			x		= \$	-
			x		= \$	-
			x		= \$	-
			x		= \$	-
			x		= \$	-
			x		= \$	-
			x		= \$	-
			x		= \$	-
			x		= \$	-
			x		= \$	-
			x		= \$	-
<u>Subtotal Traffic Signing and Striping</u>						\$ 138,000

6C - Stage Construction and Traffic Handling

Item code	Unit	Quantity		Unit Price (\$)		Cost
Traffic Control Systems	LS	1	x	100,000.00	= \$	100,000
			x		= \$	-
			x		= \$	-
			x		= \$	-
			x		= \$	-
			x		= \$	-
			x		= \$	-
			x		= \$	-
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			x		= \$	-
			x		= \$	-
			x		= \$	-
			x		= \$	-
			x		= \$	-
<u>Subtotal Stage Construction and Traffic Handling</u>						\$ 100,000

TOTAL TRAFFIC ITEMS	\$ 618,000
----------------------------	-------------------

SECTION 7: DETOURS

Include constructing, maintaining, and removal

Item code	Unit	Quantity	Unit Price (\$)	Cost
0713XX Temporary Fence (Type X)	LF	x	= \$	-
07XXXX Temporary Drainage	LS	x	= \$	-
120143 Temporary Pavement Delineation	LF	x	= \$	-
1286XX Temporary Signals	EA	x	= \$	-
129000 Temporary Railing (Type K)	LF	x	= \$	-
190101 Roadway Excavation	CY	x	= \$	-
198001 Imported Borrow	CY	x	= \$	-
198050 Embankment	CY	x	= \$	-
250401 Class 4 Aggregate Subbase	CY	x	= \$	-
260201 Class 2 Aggregate Base	CY	x	= \$	-
390132 Hot Mix Asphalt (Type A)	TON	x	= \$	-
XXXXXX Some Item	LS	x	= \$	-
TOTAL DETOURS				\$ -

SUBTOTAL SECTIONS 1-7 \$ 1,729,000

SECTION 8: MINOR ITEMS

8A - Americans with Disabilities Act Items				
ADA Items			0.0%	\$ -
8B - Bike Path Items				
Bike Path Items			0.0%	\$ -
8C - Other Minor Items				
Other Minor Items			0.0%	\$ -
Total of Section 1-7		\$ 1,729,000	x 0.0%	= \$ -
TOTAL MINOR ITEMS				\$ -

SECTIONS 9: MOBILIZATION

Item code				
999990	Total Section 1-8	\$ 1,729,000	x 10%	= \$ 172,900
TOTAL MOBILIZATION				\$ 172,900

SECTION 10: SUPPLEMENTAL WORK

Item code	Unit	Quantity	Unit Price (\$)	Cost
066015 Federal Trainee Program	LS	x	= \$	-
066063 Traffic Management Plan - Public Informatic	LS	x	= \$	-
066090 Maintain Traffic	LS	x	= \$	-
066094 Value Analysis	LS	x	= \$	-
066204 Remove Rock & Debris	LS	x	= \$	-
066222 Locate Existing Cross-Over	LS	x	= \$	-
066670 Payment Adjustments For Price Index Fluct	LS	x	= \$	-
066700 Partnering	LS	x	= \$	-
066866 Operation of Existing Traffic Management S	LS	x	= \$	-
066920 Dispute Review Board	LS	x	= \$	-
XXXXXX Some Item		x	= \$	-
<i>Cost of NPDES Supplemental Work specified in Section 5C</i>				= \$ -
Total Section 1-8		\$ 1,729,000	5%	= \$ 86,450
TOTAL SUPPLEMENTAL WORK				\$ 86,500

II. STRUCTURE ITEMS

	<u>Retaining Walls</u>		<u>Bridge 1</u>		<u>Bridge 2</u>
DATE OF ESTIMATE	00/00/00		00/00/00		00/00/00
Building Name	XXXXXXXXXXXXXXXXXXXX				
Bridge Number	57-XXX		57-XXX		57-XXX
Structure Type	XXXXXXXXXXXXXXXXXXXX				
Width (Feet) [out to out]	LF		0.00 LF		0.00 LF
Total Building Length (Feet)	LF		0.00 LF		0.00 LF
Total Area (Square Feet)	1000 SQFT		0 SQFT		0 SQFT
Structure Depth (Feet)	LF		0.00 LF		0.00 LF
Footing Type (pile or spread)	XXXXXXXXXXXXXXXXXXXX		XXXXXXXXXXXXXXXXXXXX		XXXXXXXXXXXXXXXXXXXX
Cost Per Square Foot	\$100.00		\$120.00		\$300.00

COST OF EACH STRUCTURE	\$100,000.00		\$0.00		\$0.00
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DATE OF ESTIMATE	00/00/00		00/00/00		00/00/00
Name	XXXXXXXXXXXXXXXXXXXX		XXXXXXXXXXXXXXXXXXXX		XXXXXXXXXXXXXXXXXXXX
Bridge Number	57-XXX		57-XXX		57-XXX
Structure Type	XXXXXXXXXXXXXXXXXXXX		XXXXXXXXXXXXXXXXXXXX		XXXXXXXXXXXXXXXXXXXX
Width (Feet) [out to out]	0.00 LF		0.00 LF		0.00 LF
Total Length (Feet)	0.00 LF		0.00 LF		0.00 LF
Total Area (Square Feet)	0 SQFT		0.00 SQFT		0.0 SQFT
Structure Depth (Feet)	0.00 LF		0.00 LF		0.00 LF
Footing Type (pile or spread)	XXXXXXXXXXXXXXXXXXXX		XXXXXXXXXXXXXXXXXXXX		XXXXXXXXXXXXXXXXXXXX
Cost Per Square Foot	\$0.00		\$0.00		\$0.00

COST OF EACH STRUCTURE	\$0.00		\$0.00		\$0.00
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TOTAL COST OF BRIDGES	\$0.00
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TOTAL COST OF RETAINING	\$100,000.00
--------------------------------	---------------------

TOTAL COST OF STRUCTURES¹	\$200,000.00
---------------------------------------------	---------------------

Estimate Prepared By: _____
XXXXXXXXXXXXXXXXXXXX ----- Division of Structures

Date

¹Structure's Estimate includes Overhead and Mobilization.
Add more sheets if needed. Call them 9a, 9b, 9c, ..., etc

DO NOT PRINT THIS SHEET AS PART OF COST ESTIMATE ATTACHMENT TO PROJECT INITIATION OR APPROVAL DOCUMENTS.

III. RIGHT OF WAY

Fill in all of the available information from the Right of Way data sheet.

A)	A1) Acquisition, including Excess Land Purchases, Damages & Goodwill,		\$	0
	A2) SB-1210		\$	0
B)	Acquisition of Offsite Mitigation		\$	0
C)	C1) Utility Relocation (State Share)		\$	0
	C2) Potholing (Design Phase)		\$	0
D)	Railroad Acquisition		\$	0
E)	Clearance / Demolition		\$	0
F)	Relocation Assistance (RAP and/or Last Resort Housing Costs)		\$	0
G)	Title and Escrow		\$	0
H)	Environmental Review		\$	0
I)	Condemnation Settlements	0%	\$	0
	(Items G & H applied to items A + B)			
J)	Design Appreciation Factor	0%	\$	0
K)	Utility Relocation (Construction Cost)		\$	0

L)

TOTAL RIGHT OF WAY ESTIMATE	\$200,000
------------------------------------	------------------

(Excluding Item #8 - Hazardous Waste)

M)

TOTAL R/W ESTIMATE: Escalated	\$0
--------------------------------------	------------

N)

Right of Way Support	\$	0
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Support Cost
Estimate Prepared By _____ Project Coordinator¹ _____ Phone _____

Utility Estimate
Prepared By _____ Utility Coordinator² _____ Phone _____

R/W Acquisition
Estimate Prepared By _____ Right of Way Estimator³ _____ Phone _____

¹ When estimate has Support Costs only ² When estimate has Utility Relocation ³ When R/W Acquisition is required

Preliminary Cost Estimate

Project ID:

Type of Estimate :

Program Code :

Project Limits :

Description:

Scope :

Alternative : Partial Cloverleaf Interchange

	Current Cost	Escalated Cost
ROADWAY ITEMS	\$ 4,269,100	\$ 4,269,100
STRUCTURE ITEMS	\$ 200,000	\$ 200,000
SUBTOTAL CONSTRUCTION COST	\$ 4,469,100	\$ 4,469,100
RIGHT OF WAY	\$ 200,000	\$ -
TOTAL CAPITAL OUTLAY COST	\$ 4,670,000	\$ 4,470,000
PR/ED SUPPORT	\$ -	\$ -
PS&E SUPPORT	\$ -	\$ -
RIGHT OF WAY SUPPORT	\$ -	\$ -
CONSTRUCTION SUPPORT	\$ -	\$ -
TOTAL CAPITAL OUTLAY SUPPORT COST*	\$ -	\$ -
TOTAL PROJECT COST	\$ 4,700,000	\$ 4,500,000

If Project has been programmed enter Programmed Amount

\$ -

Date of Estimate (Month/Year) Month / Year /

Estimated Date of Construction Start (Month/Year) /

Number of Working Days Working Days

Estimated Mid-Point of Construction (Month/Year) Month / Year

Number of Plant Establishment Days Days

Estimated Project Schedule

PID Approval
PA/ED Approval
PS&E
RTL
Begin Construction

Approved by Project
Manager

(xxx) xxx-xxxx

Project Manager

Date

Phone

I. ROADWAY ITEMS SUMMARY

Section		Cost
1	Earthwork	\$ 292,500
2	Pavement Structural Section	\$ 853,000
3	Drainage	\$ 200,000
4	Specialty Items	\$ 640,000
5	Environmental	\$ 120,000
6	Traffic Items	\$ 750,000
7	Detours	\$ -
8	Minor Items	\$ -
9	Roadway Mobilization	\$ 285,600
10	Supplemental Work	\$ 142,800
11	State Furnished	\$ -
12	Contingencies	\$ 985,200
13	Overhead	\$ -
TOTAL ROADWAY ITEMS		\$ 4,269,100

Estimate Prepared By _____
Name and Title Date Phone

Estimate Reviewed By _____
Name and Title Date Phone

By signing this estimate you are attesting that you have discussed your project with all functional units and have incorporated all their comments or have discussed with them why they will not be incorporated.

SECTION 7: DETOURS

Include constructing, maintaining, and removal

Item code	Unit	Quantity	Unit Price (\$)	Cost
0713XX Temporary Fence (Type X)	LF	x	= \$	-
07XXXX Temporary Drainage	LS	x	= \$	-
120143 Temporary Pavement Delineation	LF	x	= \$	-
1286XX Temporary Signals	EA	x	= \$	-
129000 Temporary Railing (Type K)	LF	x	= \$	-
190101 Roadway Excavation	CY	x	= \$	-
198001 Imported Borrow	CY	x	= \$	-
198050 Embankment	CY	x	= \$	-
250401 Class 4 Aggregate Subbase	CY	x	= \$	-
260201 Class 2 Aggregate Base	CY	x	= \$	-
390132 Hot Mix Asphalt (Type A)	TON	x	= \$	-
XXXXXX Some Item	LS	x	= \$	-
TOTAL DETOURS				\$ -

SUBTOTAL SECTIONS 1-7 \$ 2,855,500

SECTION 8: MINOR ITEMS

8A - Americans with Disabilities Act Items

ADA Items 0.0% \$ -

8B - Bike Path Items

Bike Path Items 0.0% \$ -

8C - Other Minor Items

Other Minor Items 0.0% \$ -

Total of Section 1-7 \$ 2,855,500 x 0.0% = \$ -

TOTAL MINOR ITEMS \$ -

SECTIONS 9: MOBILIZATION

Item code	Quantity	Unit Price (\$)	Cost
999990 Total Section 1-8	\$ 2,855,500	x 10%	= \$ 285,550
TOTAL MOBILIZATION			\$ 285,600

SECTION 10: SUPPLEMENTAL WORK

Item code	Unit	Quantity	Unit Price (\$)	Cost
066015 Federal Trainee Program	LS	x	= \$	-
066063 Traffic Management Plan - Public Informatic	LS	x	= \$	-
066090 Maintain Traffic	LS	x	= \$	-
066094 Value Analysis	LS	x	= \$	-
066204 Remove Rock & Debris	LS	x	= \$	-
066222 Locate Existing Cross-Over	LS	x	= \$	-
066670 Payment Adjustments For Price Index Fluct	LS	x	= \$	-
066700 Partnering	LS	x	= \$	-
066866 Operation of Existing Traffic Management S	LS	x	= \$	-
066920 Dispute Review Board	LS	x	= \$	-
XXXXXX Some Item	LS	x	= \$	-

Cost of NPDES Supplemental Work specified in Section 5C = \$ -

Total Section 1-8 \$ 2,855,500 5% = \$ 142,775

TOTAL SUPPLEMENTAL WORK \$ 142,800

II. STRUCTURE ITEMS

	<u>Retaining Walls</u>		<u>Bridge 1</u>		<u>Bridge 2</u>
DATE OF ESTIMATE	00/00/00		00/00/00		00/00/00
Building Name	XXXXXXXXXXXXXXXXXXXX				
Bridge Number	57-XXX		57-XXX		57-XXX
Structure Type	XXXXXXXXXXXXXXXXXXXX				
Width (Feet) [out to out]	LF		0.00 LF		0.00 LF
Total Building Length (Feet)	LF		0.00 LF		0.00 LF
Total Area (Square Feet)	1000 SQFT		0 SQFT		0 SQFT
Structure Depth (Feet)	LF		0.00 LF		0.00 LF
Footing Type (pile or spread)	XXXXXXXXXXXXXXXXXXXX		XXXXXXXXXXXXXXXXXXXX		XXXXXXXXXXXXXXXXXXXX
Cost Per Square Foot	\$100.00		\$120.00		\$300.00

COST OF EACH STRUCTURE	\$100,000.00		\$0.00		\$0.00
-------------------------------	---------------------	--	---------------	--	---------------

DATE OF ESTIMATE	00/00/00		00/00/00		00/00/00
Name	XXXXXXXXXXXXXXXXXXXX		XXXXXXXXXXXXXXXXXXXX		XXXXXXXXXXXXXXXXXXXX
Bridge Number	57-XXX		57-XXX		57-XXX
Structure Type	XXXXXXXXXXXXXXXXXXXX		XXXXXXXXXXXXXXXXXXXX		XXXXXXXXXXXXXXXXXXXX
Width (Feet) [out to out]	0.00 LF		0.00 LF		0.00 LF
Total Length (Feet)	0.00 LF		0.00 LF		0.00 LF
Total Area (Square Feet)	0 SQFT		0.00 SQFT		0.0 SQFT
Structure Depth (Feet)	0.00 LF		0.00 LF		0.00 LF
Footing Type (pile or spread)	XXXXXXXXXXXXXXXXXXXX		XXXXXXXXXXXXXXXXXXXX		XXXXXXXXXXXXXXXXXXXX
Cost Per Square Foot	\$0.00		\$0.00		\$0.00

COST OF EACH STRUCTURE	\$0.00		\$0.00		\$0.00
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TOTAL COST OF BRIDGES	\$0.00
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TOTAL COST OF RETAINING	\$100,000.00
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TOTAL COST OF STRUCTURES¹	\$200,000.00
---------------------------------------------	---------------------

Estimate Prepared By: _____
XXXXXXXXXXXXXXXXXXXX ----- Division of Structures

_____ Date

¹Structure's Estimate includes Overhead and Mobilization.
Add more sheets if needed. Call them 9a, 9b, 9c, ..., etc

DO NOT PRINT THIS SHEET AS PART OF COST ESTIMATE ATTACHMENT TO PROJECT INITIATION OR APPROVAL DOCUMENTS.

III. RIGHT OF WAY

Fill in all of the available information from the Right of Way data sheet.

A)	A1) Acquisition, including Excess Land Purchases, Damages & Goodwill,		\$	0
	A2) SB-1210		\$	0
B)	Acquisition of Offsite Mitigation		\$	0
C)	C1) Utility Relocation (State Share)		\$	0
	C2) Potholing (Design Phase)		\$	0
D)	Railroad Acquisition		\$	0
E)	Clearance / Demolition		\$	0
F)	Relocation Assistance (RAP and/or Last Resort Housing Costs)		\$	0
G)	Title and Escrow		\$	0
H)	Environmental Review		\$	0
I)	Condemnation Settlements	0%	\$	0
	(Items G & H applied to items A + B)			
J)	Design Appreciation Factor	0%	\$	0
K)	Utility Relocation (Construction Cost)		\$	0

L)

TOTAL RIGHT OF WAY ESTIMATE	\$200,000
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(Excluding Item #8 - Hazardous Waste)

M)

TOTAL R/W ESTIMATE: Escalated	\$0
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N)

Right of Way Support	\$	0
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Support Cost
Estimate Prepared By _____ Project Coordinator¹ _____ Phone _____

Utility Estimate
Prepared By _____ Utility Coordinator² _____ Phone _____

R/W Acquisition
Estimate Prepared By _____ Right of Way Estimator³ _____ Phone _____

¹ When estimate has Support Costs only ² When estimate has Utility Relocation ³ When R/W Acquisition is required

Preliminary Cost Estimate

Project ID:

Type of Estimate :

Program Code :

Project Limits :

Description:

Scope :

Alternative : Diverging Diamond Interchange

	Current Cost	Escalated Cost
ROADWAY ITEMS	\$ 2,699,600	\$ 2,699,600
STRUCTURE ITEMS	\$ 1,900,000	\$ 1,900,000
SUBTOTAL CONSTRUCTION COST	\$ 4,599,600	\$ 4,599,600
RIGHT OF WAY	\$ -	\$ -
TOTAL CAPITAL OUTLAY COST	\$ 4,600,000	\$ 4,600,000
PR/ED SUPPORT	\$ -	\$ -
PS&E SUPPORT	\$ -	\$ -
RIGHT OF WAY SUPPORT	\$ -	\$ -
CONSTRUCTION SUPPORT	\$ -	\$ -
TOTAL CAPITAL OUTLAY SUPPORT COST*	\$ -	\$ -
TOTAL PROJECT COST	\$ 4,600,000	\$ 4,600,000

If Project has been programmed enter Programmed Amount \$ -

Date of Estimate (Month/Year) Month / Year /

Estimated Date of Construction Start (Month/Year) /

Number of Working Days Working Days

Estimated Mid-Point of Construction (Month/Year) Month / Year

Number of Plant Establishment Days Days

Estimated Project Schedule

PID Approval

PA/ED Approval

PS&E

RTL

Begin Construction

Approved by Project
Manager

(xxx) xxx-xxxx

Project Manager

Date

Phone

I. ROADWAY ITEMS SUMMARY

Section		Cost
1	Earthwork	\$ 44,700
2	Pavement Structural Section	\$ 80,000
3	Drainage	\$ 120,000
4	Specialty Items	\$ 366,000
5	Environmental	\$ 90,000
6	Traffic Items	\$ 1,105,000
7	Detours	\$ -
8	Minor Items	\$ -
9	Roadway Mobilization	\$ 180,600
10	Supplemental Work	\$ 90,300
11	State Furnished	\$ -
12	Contingencies	\$ 623,000
13	Overhead	\$ -
TOTAL ROADWAY ITEMS		\$ 2,699,600

Estimate Prepared By _____
Name and Title Date Phone

Estimate Reviewed By _____
Name and Title Date Phone

By signing this estimate you are attesting that you have discussed your project with all functional units and have incorporated all their comments or have discussed with them why they will not be incorporated.

SECTION 1: EARTHWORK

Item code	<i>Unit</i>	<i>Quantity</i>		<i>Unit Price (\$)</i>	=	\$	<i>Cost</i>
Roadway Excavation	CY	770	x	45.00	=	\$	34,650
Imported Borrow	CY	0	x	15.00	=	\$	-
Clearing and Grubbing	LS	1	x	10,000.00	=	\$	10,000
			x		=	\$	-
			x		=	\$	-
			x		=	\$	-
			x		=	\$	-
			x		=	\$	-
			x		=	\$	-
			x		=	\$	-
			x		=	\$	-
			x		=	\$	-

TOTAL EARTHWORK SECTION ITEMS \$ 44,700

SECTION 2: PAVEMENT STRUCTURAL SECTION

Item code	<i>Unit</i>	<i>Quantity</i>		<i>Unit Price (\$)</i>	=	\$	<i>Cost</i>
Pavement	SF	8,000	x	10.00	=	\$	80,000
			x		=	\$	-
			x		=	\$	-
			x		=	\$	-
			x		=	\$	-
			x		=	\$	-
			x		=	\$	-
			x		=	\$	-
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			x		=	\$	-
			x		=	\$	-
			x		=	\$	-

TOTAL STRUCTURAL SECTION ITEMS \$ 80,000

SECTION 6: TRAFFIC ITEMS

6A - Traffic Electrical

Item code	<i>Unit</i>	<i>Quantity</i>		<i>Unit Price (\$)</i>		<i>Cost</i>
Lighting	LS	1	x	100,000.00	= \$	100,000
Traffic Signal	EA	2	x	300,000.00	= \$	600,000
			x		= \$	-
			x		= \$	-
			x		= \$	-
			x		= \$	-
			x		= \$	-
			x		= \$	-
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			x		= \$	-
			x		= \$	-
			x		= \$	-
			x		= \$	-
			x		= \$	-
<u>Subtotal Traffic Electrical</u>						<u>\$ 700,000</u>

6B - Traffic Signing and Striping

Item code	<i>Unit</i>	<i>Quantity</i>		<i>Unit Price (\$)</i>		<i>Cost</i>
Pavement Delineation	LS	1	x	50,000.00	= \$	50,000
Roadside Signs	LS	1	x	5,000.00	= \$	5,000
Overhead Signs	EA	2	x	100,000.00	= \$	200,000
			x		= \$	-
			x		= \$	-
			x		= \$	-
			x		= \$	-
			x		= \$	-
			x		= \$	-
			x		= \$	-
			x		= \$	-
			x		= \$	-
			x		= \$	-
			x		= \$	-
			x		= \$	-
			x		= \$	-
<u>Subtotal Traffic Signing and Striping</u>						<u>\$ 255,000</u>

6C - Stage Construction and Traffic Handling

Item code	<i>Unit</i>	<i>Quantity</i>		<i>Unit Price (\$)</i>		<i>Cost</i>
Traffic Control Systems	LS	1	x	150,000.00	= \$	150,000
			x		= \$	-
			x		= \$	-
			x		= \$	-
			x		= \$	-
			x		= \$	-
			x		= \$	-
			x		= \$	-
			x		= \$	-
			x		= \$	-
<u>Subtotal Stage Construction and Traffic Handling</u>						<u>\$ 150,000</u>

TOTAL TRAFFIC ITEMS	\$ 1,105,000
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SECTION 7: DETOURS

Include constructing, maintaining, and removal

Item code	Unit	Quantity	Unit Price (\$)	Cost
0713XX Temporary Fence (Type X)	LF	x	= \$	-
07XXXX Temporary Drainage	LS	x	= \$	-
120143 Temporary Pavement Delineation	LF	x	= \$	-
1286XX Temporary Signals	EA	x	= \$	-
129000 Temporary Railing (Type K)	LF	x	= \$	-
190101 Roadway Excavation	CY	x	= \$	-
198001 Imported Borrow	CY	x	= \$	-
198050 Embankment	CY	x	= \$	-
250401 Class 4 Aggregate Subbase	CY	x	= \$	-
260201 Class 2 Aggregate Base	CY	x	= \$	-
390132 Hot Mix Asphalt (Type A)	TON	x	= \$	-
XXXXXX Some Item	LS	x	= \$	-

TOTAL DETOURS	\$	-
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SUBTOTAL SECTIONS 1-7 \$ 1,805,700

SECTION 8: MINOR ITEMS

8A - Americans with Disabilities Act Items

ADA Items 0.0% \$ -

8B - Bike Path Items

Bike Path Items 0.0% \$ -

8C - Other Minor Items

Other Minor Items 0.0% \$ -

Total of Section 1-7 \$ 1,805,700 x 0.0% = \$ -

TOTAL MINOR ITEMS	\$	-
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SECTIONS 9: MOBILIZATION

Item code	Quantity	Unit Price (\$)	Cost
999990 Total Section 1-8	\$ 1,805,700 x 10%	= \$	180,570

TOTAL MOBILIZATION	\$	180,600
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SECTION 10: SUPPLEMENTAL WORK

Item code	Unit	Quantity	Unit Price (\$)	Cost
066015 Federal Trainee Program	LS	x	= \$	-
066063 Traffic Management Plan - Public Informati	LS	x	= \$	-
066090 Maintain Traffic	LS	x	= \$	-
066094 Value Analysis	LS	x	= \$	-
066204 Remove Rock & Debris	LS	x	= \$	-
066222 Locate Existing Cross-Over	LS	x	= \$	-
066670 Payment Adjustments For Price Index Fluct	LS	x	= \$	-
066700 Partnering	LS	x	= \$	-
066866 Operation of Existing Traffic Management &	LS	x	= \$	-
066920 Dispute Review Board	LS	x	= \$	-
XXXXXX Some Item	LS	x	= \$	-

Cost of NPDES Supplemental Work specified in Section 5C = \$ -

Total Section 1-8 \$ 1,805,700 5% = \$ 90,285

TOTAL SUPPLEMENTAL WORK	\$	90,300
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SECTION 11: STATE FURNISHED MATERIALS AND EXPENSES

Item code	<i>Unit</i>	<i>Quantity</i>	<i>Unit Price (\$)</i>	<i>Cost</i>
066063 Public Information	LS	x	=	\$0
066105 RE Office	LS	x	=	\$0
066803 Padlocks	LS	x	=	\$0
066838 Reflective Numbers and Edge Sealer	LS	x	=	\$0
066901 Water Expenses	LS	x	=	\$0
066062A COZEEP Expenses	LS	x	=	\$0
06684X Ramp Meter Controller Assembly	LS	x	=	\$0
06684X TMS Controller Assembly	LS	x	=	\$0
06684X Traffic Signal Controller Assembly	LS	x	=	\$0
XXXXXX Some Item				

Total Section 1-8 \$ 1,805,700 0% = \$ -

TOTAL STATE FURNISHED	\$0
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SECTION 12: TIME-RELATED OVERHEAD

Estimated Time-Related Overhead (TRO) Percentage (0% to 10%) = 5%

Item code	<i>Unit</i>	<i>Quantity</i>	<i>Unit Price (\$)</i>	<i>Cost</i>
070018 Time-Related Overhead	WD	500	X 0 =	\$0

TOTAL TIME-RELATED OVERHEAD	\$0
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SECTION 13: CONTINGENCY

(Pre-PSR 30%-50%, PSR 25%, Draft PR 20%, PR 15%, after PR approval 10%, Final PS&E 5%)

Total Section 1-11 \$ 2,076,600 x 30% = \$622,980

TOTAL CONTINGENCY	\$623,000
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II. STRUCTURE ITEMS

	<u>Retaining Walls</u>	<u>Bridge 1</u>	<u>Bridge 2</u>
DATE OF ESTIMATE	00/00/00	00/00/00	00/00/00
Building Name	XXXXXXXXXXXXXXXXXXXX		
Bridge Number	57-XXX	57-XXX	57-XXX
Structure Type	XXXXXXXXXXXXXXXXXXXX		
Width (Feet) [out to out]	LF	24.00 LF	0.00 LF
Total Building Length (Feet)	LF	180.00 LF	0.00 LF
Total Area (Square Feet)	0 SQFT	4320 SQFT	0 SQFT
Structure Depth (Feet)	LF	0.00 LF	0.00 LF
Footing Type (pile or spread)	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX
Cost Per Square Foot	\$100.00	\$350.00	\$300.00

COST OF EACH STRUCTURE	\$0.00	\$1,512,000.00	\$0.00
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	<u>Retaining Walls</u>	<u>Bridge 1</u>	<u>Bridge 2</u>
DATE OF ESTIMATE	00/00/00	00/00/00	00/00/00
Name	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX
Bridge Number	57-XXX	57-XXX	57-XXX
Structure Type	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX
Width (Feet) [out to out]	0.00 LF	0.00 LF	0.00 LF
Total Length (Feet)	0.00 LF	0.00 LF	0.00 LF
Total Area (Square Feet)	0 SQFT	0.00 SQFT	0.0 SQFT
Structure Depth (Feet)	0.00 LF	0.00 LF	0.00 LF
Footing Type (pile or spread)	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX
Cost Per Square Foot	\$0.00	\$0.00	\$0.00

COST OF EACH STRUCTURE	\$0.00	\$0.00	\$0.00
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TOTAL COST OF BRIDGES	\$1,512,000.00
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TOTAL COST OF RETAINING	\$0.00
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TOTAL COST OF STRUCTURES¹	\$1,900,000.00
---------------------------------------------	-----------------------

Estimate Prepared By: _____
XXXXXXXXXXXXXXXXXXXX ----- Division of Structures

_____ Date

¹Structure's Estimate includes Overhead and Mobilization.
Add more sheets if needed. Call them 9a, 9b, 9c, ..., etc

DO NOT PRINT THIS SHEET AS PART OF COST ESTIMATE ATTACHMENT TO PROJECT INITIATION OR APPROVAL DOCUMENTS.

III. RIGHT OF WAY

Fill in all of the available information from the Right of Way data sheet.

A)	A1) Acquisition, including Excess Land Purchases, Damages & Goodwill,		\$	0
	A2) SB-1210		\$	0
B)	Acquisition of Offsite Mitigation		\$	0
C)	C1) Utility Relocation (State Share)		\$	0
	C2) Potholing (Design Phase)		\$	0
D)	Railroad Acquisition		\$	0
E)	Clearance / Demolition		\$	0
F)	Relocation Assistance (RAP and/or Last Resort Housing Costs)		\$	0
G)	Title and Escrow		\$	0
H)	Environmental Review		\$	0
I)	Condemnation Settlements	<u>0%</u>	\$	0
	(Items G & H applied to items A + B)			
J)	Design Appreciation Factor	0%	\$	0
K)	Utility Relocation (Construction Cost)		\$	0

L)

TOTAL RIGHT OF WAY ESTIMATE	\$0
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(Excluding Item #8 - Hazardous Waste)

M)

TOTAL R/W ESTIMATE: Escalated	\$0
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N)

Right of Way Support	\$	0
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Support Cost
Estimate Prepared By _____ Project Coordinator¹ _____ Phone _____

Utility Estimate
Prepared By _____ Utility Coordinator² _____ Phone _____

R/W Acquisition
Estimate Prepared By _____ Right of Way Estimator³ _____ Phone _____

¹ When estimate has Support Costs only ² When estimate has Utility Relocation ³ When R/W Acquisition is required

DO NOT PRINT THIS SHEET AS PART OF COST ESTIMATE ATTACHMENT TO PROJECT INITIATION OR APPROVAL DOCUMENTS.

IV. SUPPORT COST ESTIMATE SUMMARY

Please obtain a P3 report (CL#3) from PPM to fill in the support cost for these categories.

SB-45 CATEGORY SUPPORT COST	PREVIOUS	FY 10/11	FY 11/12	FY 12/13	FY 13/14	FY 14/15	FY 15/16	FY 16/17	FY 17/18	FUTURE	P3 Total	Support Ratio
PR/ED (PD,PE,PM)											\$ -	0.00%
PS&E (PS)											\$ -	0.00%
R/W (RW)											\$ -	0.00%
CONSTRUCTION (CM)											\$ -	0.00%
Total Support Cost:	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	0.00%

Note: It is assumed that the Support Costs are already escalated by Programming to the year of expenditure. Use project Programming Sheet data

Total Capital Cost:	\$4,600,000
Total Capital Outlay Support Cost:	\$0
Overall Percent Support Cost:	0.00%

V. ESCALATED CONSTRUCTION COST ESTIMATE SUMMARY

Note: Right of way escalated cost are accounted for on sheet 10 of 11.

Date of Estimate (Month/Year) Month / Year
 Estimated Date of Construction Start (Month/Year) 0 / 0
 Number of Working Days 500 WD
 Estimated Mid-Point of Construction (Month/Year) 0 / 0

YEAR FORECASTED ESCALATION	0	1	2	3	4	5	6	7	8	9	FUTURE

ESCALATED CONSTRUCTION COSTS	0	1	2	3	4	5	6	7	8	9	FUTURE	TOTAL ESCALATED COSTS
ROADWAY ITEMS	\$ 2,699,600	\$ 2,699,600	\$ 2,699,600	\$ 2,699,600	\$ 2,699,600	\$ 2,699,600	\$ 2,699,600	\$ 2,699,600	\$ 2,699,600	\$ 2,699,600	\$ 2,699,600	\$ 2,699,600
STRUCTURE ITEMS	\$ 1,900,000	\$ 1,900,000	\$ 1,900,000	\$ 1,900,000	\$ 1,900,000	\$ 1,900,000	\$ 1,900,000	\$ 1,900,000	\$ 1,900,000	\$ 1,900,000	\$ 1,900,000	\$ 1,900,000
SUBTOTAL	\$ 4,599,600	\$ 4,599,600	\$ 4,599,600	\$ 4,599,600	\$ 4,599,600	\$ 4,599,600	\$ 4,599,600	\$ 4,599,600	\$ 4,599,600	\$ 4,599,600	\$ 4,599,600	\$ 4,599,600

Approved by: _____
Project Control Engineer

_____ Date

Preliminary Cost Estimate

Project ID:

Type of Estimate :

Program Code :

Project Limits :

Description:

Scope :

Alternative : Roundabouts

	Current Cost	Escalated Cost
ROADWAY ITEMS	\$ 3,682,300	\$ 3,682,300
STRUCTURE ITEMS	\$ -	\$ -
SUBTOTAL CONSTRUCTION COST	\$ 3,682,300	\$ 3,682,300
RIGHT OF WAY	\$ 100,000	\$ -
TOTAL CAPITAL OUTLAY COST	\$ 3,783,000	\$ 3,683,000
PR/ED SUPPORT	\$ -	\$ -
PS&E SUPPORT	\$ -	\$ -
RIGHT OF WAY SUPPORT	\$ -	\$ -
CONSTRUCTION SUPPORT	\$ -	\$ -
TOTAL CAPITAL OUTLAY SUPPORT COST*	\$ -	\$ -
TOTAL PROJECT COST	\$ 3,800,000	\$ 3,700,000

If Project has been programmed enter Programmed Amount \$ -

Date of Estimate (Month/Year) Month / Year /

Estimated Date of Construction Start (Month/Year) /

Number of Working Days Working Days

Estimated Mid-Point of Construction (Month/Year) Month / Year

Number of Plant Establishment Days Days

Estimated Project Schedule

PID Approval

PA/ED Approval

PS&E

RTL

Begin Construction

Approved by Project
Manager

(xxx) xxx-xxxx

Project Manager

Date

Phone

I. ROADWAY ITEMS SUMMARY

	Section	Cost
1	Earthwork	\$ 253,000
2	Pavement Structural Section	\$ 1,480,000
3	Drainage	\$ 150,000
4	Specialty Items	\$ 140,000
5	Environmental	\$ 130,000
6	Traffic Items	\$ 310,000
7	Detours	\$ -
8	Minor Items	\$ -
9	Roadway Mobilization	\$ 246,300
10	Supplemental Work	\$ 123,200
11	State Furnished	\$ -
12	Contingencies	\$ 849,800
13	Overhead	\$ -
TOTAL ROADWAY ITEMS		\$ 3,682,300

Estimate Prepared By _____
Name and Title Date Phone

Estimate Reviewed By _____
Name and Title Date Phone

By signing this estimate you are attesting that you have discussed your project with all functional units and have incorporated all their comments or have discussed with them why they will not be incorporated.

SECTION 1: EARTHWORK

Item code	Unit	Quantity		Unit Price (\$)	=	\$	Cost
Roadway Excavation	CY	4,400	x	45.00	=	\$	198,000
Imported Borrow	CY	3,000	x	15.00	=	\$	45,000
Clearing and Grubbing	LS	1	x	10,000.00	=	\$	10,000
			x		=	\$	-
			x		=	\$	-
			x		=	\$	-
			x		=	\$	-
			x		=	\$	-
			x		=	\$	-
			x		=	\$	-
			x		=	\$	-

TOTAL EARTHWORK SECTION ITEMS	\$	253,000
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SECTION 2: PAVEMENT STRUCTURAL SECTION

Item code	Unit	Quantity		Unit Price (\$)	=	\$	Cost
Pavement	SF	148,000	x	10.00	=	\$	1,480,000
			x		=	\$	-
			x		=	\$	-
			x		=	\$	-
			x		=	\$	-
			x		=	\$	-
			x		=	\$	-
			x		=	\$	-
			x		=	\$	-
			x		=	\$	-
			x		=	\$	-
			x		=	\$	-
			x		=	\$	-
			x		=	\$	-
			x		=	\$	-
			x		=	\$	-
			x		=	\$	-
			x		=	\$	-
			x		=	\$	-
			x		=	\$	-
			x		=	\$	-
			x		=	\$	-
			x		=	\$	-

TOTAL STRUCTURAL SECTION ITEMS	\$	1,480,000
---------------------------------------	-----------	------------------

SECTION 7: DETOURS

Include constructing, maintaining, and removal

Item code	Unit	Quantity	Unit Price (\$)	Cost
0713XX Temporary Fence (Type X)	LF	x	= \$	-
07XXXX Temporary Drainage	LS	x	= \$	-
120143 Temporary Pavement Delineation	LF	x	= \$	-
1286XX Temporary Signals	EA	x	= \$	-
129000 Temporary Railing (Type K)	LF	x	= \$	-
190101 Roadway Excavation	CY	x	= \$	-
198001 Imported Borrow	CY	x	= \$	-
198050 Embankment	CY	x	= \$	-
250401 Class 4 Aggregate Subbase	CY	x	= \$	-
260201 Class 2 Aggregate Base	CY	x	= \$	-
390132 Hot Mix Asphalt (Type A)	TON	x	= \$	-
XXXXXX Some Item	LS	x	= \$	-

TOTAL DETOURS	\$	-
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SUBTOTAL SECTIONS 1-7 \$ 2,463,000

SECTION 8: MINOR ITEMS

8A - Americans with Disabilities Act Items

ADA Items 0.0% \$ -

8B - Bike Path Items

Bike Path Items 0.0% \$ -

8C - Other Minor Items

Other Minor Items 0.0% \$ -

Total of Section 1-7 \$ 2,463,000 x 0.0% = \$ -

TOTAL MINOR ITEMS	\$	-
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SECTIONS 9: MOBILIZATION

Item code	Quantity	Unit Price (\$)	Cost
999990 Total Section 1-8	\$ 2,463,000	x 10%	= \$ 246,300

TOTAL MOBILIZATION	\$	246,300
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SECTION 10: SUPPLEMENTAL WORK

Item code	Unit	Quantity	Unit Price (\$)	Cost
066015 Federal Trainee Program	LS	x	= \$	-
066063 Traffic Management Plan - Public Informati	LS	x	= \$	-
066090 Maintain Traffic	LS	x	= \$	-
066094 Value Analysis	LS	x	= \$	-
066204 Remove Rock & Debris	LS	x	= \$	-
066222 Locate Existing Cross-Over	LS	x	= \$	-
066670 Payment Adjustments For Price Index Fluct	LS	x	= \$	-
066700 Partnering	LS	x	= \$	-
066866 Operation of Existing Traffic Management &	LS	x	= \$	-
066920 Dispute Review Board	LS	x	= \$	-
XXXXXX Some Item	LS	x	= \$	-

Cost of NPDES Supplemental Work specified in Section 5C = \$ -

Total Section 1-8 \$ 2,463,000 5% = \$ 123,150

TOTAL SUPPLEMENTAL WORK	\$	123,200
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SECTION 11: STATE FURNISHED MATERIALS AND EXPENSES

Item code	Unit	Quantity	Unit Price (\$)	Cost
066063 Public Information	LS	x	=	\$0
066105 RE Office	LS	x	=	\$0
066803 Padlocks	LS	x	=	\$0
066838 Reflective Numbers and Edge Sealer	LS	x	=	\$0
066901 Water Expenses	LS	x	=	\$0
066062A COZEEP Expenses	LS	x	=	\$0
06684X Ramp Meter Controller Assembly	LS	x	=	\$0
06684X TMS Controller Assembly	LS	x	=	\$0
06684X Traffic Signal Controller Assembly	LS	x	=	\$0
XXXXXX Some Item				
 Total Section 1-8		\$ 2,463,000	0%	= \$ -

TOTAL STATE FURNISHED	\$0
------------------------------	------------

SECTION 12: TIME-RELATED OVERHEAD

Estimated Time-Related Overhead (TRO) Percentage (0% to 10%) = 5%

Item code	Unit	Quantity	Unit Price (\$)	Cost
070018 Time-Related Overhead	WD	500	X 0 =	\$0

TOTAL TIME-RELATED OVERHEAD	\$0
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SECTION 13: CONTINGENCY

(Pre-PSR 30%-50%, PSR 25%, Draft PR 20%, PR 15%, after PR approval 10%, Final PS&E 5%)

Total Section 1-11 \$ 2,832,500 x 30% = \$849,750

TOTAL CONTINGENCY	\$849,800
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II. STRUCTURE ITEMS

	<u>Retaining Walls</u>	<u>Bridge 1</u>	<u>Bridge 2</u>
DATE OF ESTIMATE	00/00/00	00/00/00	00/00/00
Building Name	XXXXXXXXXXXXXXXXXXXX		
Bridge Number	57-XXX	57-XXX	57-XXX
Structure Type	XXXXXXXXXXXXXXXXXXXX		
Width (Feet) [out to out]	LF	0.00 LF	0.00 LF
Total Building Length (Feet)	LF	0.00 LF	0.00 LF
Total Area (Square Feet)	0 SQFT	0 SQFT	0 SQFT
Structure Depth (Feet)	LF	0.00 LF	0.00 LF
Footing Type (pile or spread)	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX
Cost Per Square Foot	\$100.00	\$120.00	\$300.00

COST OF EACH STRUCTURE	\$0.00	\$0.00	\$0.00
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	<u>Retaining Walls</u>	<u>Bridge 1</u>	<u>Bridge 2</u>
DATE OF ESTIMATE	00/00/00	00/00/00	00/00/00
Name	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX
Bridge Number	57-XXX	57-XXX	57-XXX
Structure Type	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX
Width (Feet) [out to out]	0.00 LF	0.00 LF	0.00 LF
Total Length (Feet)	0.00 LF	0.00 LF	0.00 LF
Total Area (Square Feet)	0 SQFT	0.00 SQFT	0.0 SQFT
Structure Depth (Feet)	0.00 LF	0.00 LF	0.00 LF
Footing Type (pile or spread)	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX
Cost Per Square Foot	\$0.00	\$0.00	\$0.00

COST OF EACH STRUCTURE	\$0.00	\$0.00	\$0.00
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TOTAL COST OF BRIDGES	\$0.00
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TOTAL COST OF RETAINING	\$0.00
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TOTAL COST OF STRUCTURES¹	\$0.00
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Estimate Prepared By: _____
XXXXXXXXXXXXXXXXXXXX ----- Division of Structures

_____ Date

¹Structure's Estimate includes Overhead and Mobilization.
Add more sheets if needed. Call them 9a, 9b, 9c, ..., etc

DO NOT PRINT THIS SHEET AS PART OF COST ESTIMATE ATTACHMENT TO PROJECT INITIATION OR APPROVAL DOCUMENTS.

III. RIGHT OF WAY

Fill in all of the available information from the Right of Way data sheet.

A)	A1) Acquisition, including Excess Land Purchases, Damages & Goodwill,		\$	0
	A2) SB-1210		\$	0
B)	Acquisition of Offsite Mitigation		\$	0
C)	C1) Utility Relocation (State Share)		\$	0
	C2) Potholing (Design Phase)		\$	0
D)	Railroad Acquisition		\$	0
E)	Clearance / Demolition		\$	0
F)	Relocation Assistance (RAP and/or Last Resort Housing Costs)		\$	0
G)	Title and Escrow		\$	0
H)	Environmental Review		\$	0
I)	Condemnation Settlements	<u>0%</u>	\$	0
	(Items G & H applied to items A + B)			
J)	Design Appreciation Factor	0%	\$	0
K)	Utility Relocation (Construction Cost)		\$	0

L)	TOTAL RIGHT OF WAY ESTIMATE	\$100,000
	(Excluding Item #8 - Hazardous Waste)	

M)	TOTAL R/W ESTIMATE: Escalated	\$0
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N)	Right of Way Support	\$ 0
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Support Cost
Estimate Prepared By _____ Project Coordinator¹ _____ Phone _____

Utility Estimate
Prepared By _____ Utility Coordinator² _____ Phone _____

R/W Acquisition
Estimate Prepared By _____ Right of Way Estimator³ _____ Phone _____

¹ When estimate has Support Costs only ² When estimate has Utility Relocation ³ When R/W Acquisition is required

DO NOT PRINT THIS SHEET AS PART OF COST ESTIMATE ATTACHMENT TO PROJECT INITIATION OR APPROVAL DOCUMENTS.

IV. SUPPORT COST ESTIMATE SUMMARY

Please obtain a P3 report (CL#3) from PPM to fill in the support cost for these categories.

SB-45 CATEGORY SUPPORT COST	PREVIOUS	FY 10/11	FY 11/12	FY 12/13	FY 13/14	FY 14/15	FY 15/16	FY 16/17	FY 17/18	FUTURE	P3 Total	Support Ratio
PR/ED (PD,PE,PM)											\$ -	0.00%
PS&E (PS)											\$ -	0.00%
R/W (RW)											\$ -	0.00%
CONSTRUCTION (CM)											\$ -	0.00%
Total Support Cost:	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	0.00%

Note: It is assumed that the Support Costs are already escalated by Programming to the year of expenditure. Use project Programming Sheet data

Total Capital Cost:	\$3,783,000
Total Capital Outlay Support Cost:	\$0
Overall Percent Support Cost:	0.00%

V. ESCALATED CONSTRUCTION COST ESTIMATE SUMMARY

Note: Right of way escalated cost are accounted for on sheet 10 of 11.

Date of Estimate (Month/Year) Month / Year
 Estimated Date of Construction Start (Month/Year) 0 / 0

Number of Working Days 500 WD

Estimated Mid-Point of Construction (Month/Year) 0 / 0

YEAR FORECASTED ESCALATION	0	1	2	3	4	5	6	7	8	9	FUTURE

ESCALATED CONSTRUCTION COSTS	0	1	2	3	4	5	6	7	8	9	FUTURE	TOTAL ESCALATED COSTS
ROADWAY ITEMS	\$ 3,682,300	\$ 3,682,300	\$ 3,682,300	\$ 3,682,300	\$ 3,682,300	\$ 3,682,300	\$ 3,682,300	\$ 3,682,300	\$ 3,682,300	\$ 3,682,300	\$ 3,682,300	\$ 3,682,300
STRUCTURE ITEMS	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
SUBTOTAL	\$ 3,682,300	\$ 3,682,300	\$ 3,682,300	\$ 3,682,300	\$ 3,682,300	\$ 3,682,300	\$ 3,682,300	\$ 3,682,300	\$ 3,682,300	\$ 3,682,300	\$ 3,682,300	\$ 3,682,300

Approved by: _____
Project Control Engineer

_____ Date

Preliminary Cost Estimate

Project ID:

Type of Estimate :

Program Code :

Project Limits :

Description:

Scope :

Alternative : 6-Lane Tight Diamond Interchange

	Current Cost	Escalated Cost
ROADWAY ITEMS	\$ 2,567,000	\$ 2,567,000
STRUCTURE ITEMS	\$ 1,900,000	\$ 1,900,000
SUBTOTAL CONSTRUCTION COST	\$ 4,467,000	\$ 4,467,000
RIGHT OF WAY	\$ -	\$ -
TOTAL CAPITAL OUTLAY COST	\$ 4,467,000	\$ 4,467,000
PR/ED SUPPORT	\$ -	\$ -
PS&E SUPPORT	\$ -	\$ -
RIGHT OF WAY SUPPORT	\$ -	\$ -
CONSTRUCTION SUPPORT	\$ -	\$ -
TOTAL CAPITAL OUTLAY SUPPORT COST*	\$ -	\$ -
TOTAL PROJECT COST	\$ 4,500,000	\$ 4,500,000

If Project has been programmed enter Programmed Amount \$ -

Date of Estimate (Month/Year) Month / Year /

Estimated Date of Construction Start (Month/Year) /

Number of Working Days Working Days

Estimated Mid-Point of Construction (Month/Year) Month / Year

Number of Plant Establishment Days Days

Estimated Project Schedule

PID Approval

PA/ED Approval

PS&E

RTL

Begin Construction

Approved by Project
Manager

(xxx) xxx-xxxx

Project Manager

Date

Phone

I. ROADWAY ITEMS SUMMARY

Section	Cost
1 Earthwork	\$ 46,000
2 Pavement Structural Section	\$ 90,000
3 Drainage	\$ 120,000
4 Specialty Items	\$ 366,000
5 Environmental	\$ 90,000
6 Traffic Items	\$ 1,005,000
7 Detours	\$ -
8 Minor Items	\$ -
9 Roadway Mobilization	\$ 171,700
10 Supplemental Work	\$ 85,900
11 State Furnished	\$ -
12 Contingencies	\$ 592,400
13 Overhead	\$ -
TOTAL ROADWAY ITEMS	
	\$ 2,567,000

Estimate Prepared By _____
Name and Title Date Phone

Estimate Reviewed By _____
Name and Title Date Phone

By signing this estimate you are attesting that you have discussed your project with all functional units and have incorporated all their comments or have discussed with them why they will not be incorporated.

SECTION 1: EARTHWORK

Item code	Unit	Quantity		Unit Price (\$)	=	\$	Cost
Roadway Excavation	CY	800	x	45.00	=	\$	36,000
Imported Borrow	CY	0	x	15.00	=	\$	-
Clearing and Grubbing	LS	1	x	10,000.00	=	\$	10,000
			x		=	\$	-
			x		=	\$	-
			x		=	\$	-
			x		=	\$	-
			x		=	\$	-
			x		=	\$	-
			x		=	\$	-
			x		=	\$	-

TOTAL EARTHWORK SECTION ITEMS	\$ 46,000
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SECTION 2: PAVEMENT STRUCTURAL SECTION

Item code	Unit	Quantity		Unit Price (\$)	=	\$	Cost
Pavement	SF	9,000	x	10.00	=	\$	90,000
			x		=	\$	-
			x		=	\$	-
			x		=	\$	-
			x		=	\$	-
			x		=	\$	-
			x		=	\$	-
			x		=	\$	-
			x		=	\$	-
			x		=	\$	-
			x		=	\$	-
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			x		=	\$	-
			x		=	\$	-
			x		=	\$	-
			x		=	\$	-
			x		=	\$	-
			x		=	\$	-
			x		=	\$	-
			x		=	\$	-
			x		=	\$	-

TOTAL STRUCTURAL SECTION ITEMS	\$ 90,000
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SECTION 3: DRAINAGE

Item code	Unit	Quantity		Unit Price (\$)		Cost
Drainage	LS	1	X	120,000.00	= \$	120,000
			X		= \$	-
			X		= \$	-
			X		= \$	-
			X		= \$	-
			X		= \$	-
			X		= \$	-
			X		= \$	-
			X		= \$	-
			X		= \$	-
			X		= \$	-
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			X		= \$	-
			X		= \$	-
			X		= \$	-
			X		= \$	-
			X		= \$	-
			X		= \$	-
			X		= \$	-
			X		= \$	-
			X		= \$	-
			X		= \$	-
			X		= \$	-
			X		= \$	-
				TOTAL DRAINAGE ITEMS	\$	120,000

SECTION 4: SPECIALTY ITEMS

Item code	Unit	Quantity		Unit Price (\$)		Cost
Guardrail	LF	300	X	20.00	= \$	6,000
Sidewalk, Curb, and Gutter	CY	450	X	800.00	= \$	360,000
			X		= \$	-
			X		= \$	-
			X		= \$	-
			X		= \$	-
			X		= \$	-
			X		= \$	-
			X		= \$	-
			X		= \$	-
			X		= \$	-
			X		= \$	-
			X		= \$	-
			X		= \$	-
			X		= \$	-
			X		= \$	-
			X		= \$	-
			X		= \$	-
			X		= \$	-
			X		= \$	-
			X		= \$	-
			X		= \$	-
			X		= \$	-
			X		= \$	-
				TOTAL SPECIALTY ITEMS	\$	366,000

SECTION 6: TRAFFIC ITEMS

6A - Traffic Electrical

Item code	<i>Unit</i>	<i>Quantity</i>	<i>Unit Price (\$)</i>	<i>Cost</i>
Lighting	LS	1	x 100,000.00 = \$	100,000
Traffic Signal	EA	2	x 250,000.00 = \$	500,000
		x	= \$	-
		x	= \$	-
		x	= \$	-
		x	= \$	-
		x	= \$	-
		x	= \$	-
		x	= \$	-
		x	= \$	-
		x	= \$	-
		x	= \$	-
		x	= \$	-
		x	= \$	-
		x	= \$	-
		x	= \$	-
		x	= \$	-
		x	= \$	-
			<i>Subtotal Traffic Electrical</i>	\$ 600,000

6B - Traffic Signing and Striping

Item code	<i>Unit</i>	<i>Quantity</i>	<i>Unit Price (\$)</i>	<i>Cost</i>
Pavement Delineation	LS	1	x 50,000.00 = \$	50,000
Roadside Signs	LS	1	x 5,000.00 = \$	5,000
Overhead Signs	EA	2	x 100,000.00 = \$	200,000
		x	= \$	-
		x	= \$	-
		x	= \$	-
		x	= \$	-
		x	= \$	-
		x	= \$	-
		x	= \$	-
		x	= \$	-
		x	= \$	-
		x	= \$	-
		x	= \$	-
		x	= \$	-
		x	= \$	-
		x	= \$	-
		x	= \$	-
		x	= \$	-
			<i>Subtotal Traffic Signing and Striping</i>	\$ 255,000

6C - Stage Construction and Traffic Handling

Item code	<i>Unit</i>	<i>Quantity</i>	<i>Unit Price (\$)</i>	<i>Cost</i>
Traffic Control Systems	LS	1	x 150,000.00 = \$	150,000
		x	= \$	-
		x	= \$	-
		x	= \$	-
		x	= \$	-
		x	= \$	-
		x	= \$	-
		x	= \$	-
		x	= \$	-
		x	= \$	-
		x	= \$	-
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		x	= \$	-
		x	= \$	-
		x	= \$	-
		x	= \$	-
		x	= \$	-
		x	= \$	-
		x	= \$	-
		x	= \$	-
		x	= \$	-
		x	= \$	-
			<i>Subtotal Stage Construction and Traffic Handling</i>	\$ 150,000

TOTAL TRAFFIC ITEMS	\$ 1,005,000
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SECTION 7: DETOURS

Include constructing, maintaining, and removal

Item code	Unit	Quantity	Unit Price (\$)	Cost
0713XX Temporary Fence (Type X)	LF	x	= \$	-
07XXXX Temporary Drainage	LS	x	= \$	-
120143 Temporary Pavement Delineation	LF	x	= \$	-
1286XX Temporary Signals	EA	x	= \$	-
129000 Temporary Railing (Type K)	LF	x	= \$	-
190101 Roadway Excavation	CY	x	= \$	-
198001 Imported Borrow	CY	x	= \$	-
198050 Embankment	CY	x	= \$	-
250401 Class 4 Aggregate Subbase	CY	x	= \$	-
260201 Class 2 Aggregate Base	CY	x	= \$	-
390132 Hot Mix Asphalt (Type A)	TON	x	= \$	-
XXXXXX Some Item	LS	x	= \$	-

TOTAL DETOURS	\$	-
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SUBTOTAL SECTIONS 1-7 \$ 1,717,000

SECTION 8: MINOR ITEMS

8A - Americans with Disabilities Act Items

ADA Items 0.0% \$ -

8B - Bike Path Items

Bike Path Items 0.0% \$ -

8C - Other Minor Items

Other Minor Items 0.0% \$ -

Total of Section 1-7 \$ 1,717,000 x 0.0% = \$ -

TOTAL MINOR ITEMS	\$	-
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SECTIONS 9: MOBILIZATION

Item code	Quantity	Unit Price (\$)	Cost
999990 Total Section 1-8	\$ 1,717,000 x 10%	= \$	171,700

TOTAL MOBILIZATION	\$	171,700
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SECTION 10: SUPPLEMENTAL WORK

Item code	Unit	Quantity	Unit Price (\$)	Cost
066015 Federal Trainee Program	LS	x	= \$	-
066063 Traffic Management Plan - Public Informati	LS	x	= \$	-
066090 Maintain Traffic	LS	x	= \$	-
066094 Value Analysis	LS	x	= \$	-
066204 Remove Rock & Debris	LS	x	= \$	-
066222 Locate Existing Cross-Over	LS	x	= \$	-
066670 Payment Adjustments For Price Index Fluct	LS	x	= \$	-
066700 Partnering	LS	x	= \$	-
066866 Operation of Existing Traffic Management &	LS	x	= \$	-
066920 Dispute Review Board	LS	x	= \$	-
XXXXXX Some Item	LS	x	= \$	-

Cost of NPDES Supplemental Work specified in Section 5C = \$ -

Total Section 1-8 \$ 1,717,000 5% = \$ 85,850

TOTAL SUPPLEMENTAL WORK	\$	85,900
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SECTION 11: STATE FURNISHED MATERIALS AND EXPENSES

Item code	Unit	Quantity	Unit Price (\$)	Cost
066063 Public Information	LS	x	=	\$0
066105 RE Office	LS	x	=	\$0
066803 Padlocks	LS	x	=	\$0
066838 Reflective Numbers and Edge Sealer	LS	x	=	\$0
066901 Water Expenses	LS	x	=	\$0
066062A COZEEP Expenses	LS	x	=	\$0
06684X Ramp Meter Controller Assembly	LS	x	=	\$0
06684X TMS Controller Assembly	LS	x	=	\$0
06684X Traffic Signal Controller Assembly	LS	x	=	\$0
XXXXXX Some Item				

Total Section 1-8 \$ 1,717,000 0% = \$ -

TOTAL STATE FURNISHED	\$0
------------------------------	------------

SECTION 12: TIME-RELATED OVERHEAD

Estimated Time-Related Overhead (TRO) Percentage (0% to 10%) = 5%

Item code	Unit	Quantity	Unit Price (\$)	Cost
070018 Time-Related Overhead	WD	500	X 0	= \$0

TOTAL TIME-RELATED OVERHEAD	\$0
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SECTION 13: CONTINGENCY

(Pre-PSR 30%-50%, PSR 25%, Draft PR 20%, PR 15%, after PR approval 10%, Final PS&E 5%)

Total Section 1-11 \$ 1,974,600 x 30% = \$592,380

TOTAL CONTINGENCY	\$592,400
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II. STRUCTURE ITEMS

	<u>Retaining Walls</u>	<u>Bridge 1</u>	<u>Bridge 2</u>
DATE OF ESTIMATE	00/00/00	00/00/00	00/00/00
Building Name	XXXXXXXXXXXXXXXXXXXX		
Bridge Number	57-XXX	57-XXX	57-XXX
Structure Type	XXXXXXXXXXXXXXXXXXXX		
Width (Feet) [out to out]	LF	24.00 LF	0.00 LF
Total Building Length (Feet)	LF	180.00 LF	0.00 LF
Total Area (Square Feet)	0 SQFT	4320 SQFT	0 SQFT
Structure Depth (Feet)	LF	0.00 LF	0.00 LF
Footing Type (pile or spread)	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX
Cost Per Square Foot	\$100.00	\$350.00	\$300.00

COST OF EACH STRUCTURE	\$0.00	\$1,512,000.00	\$0.00
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	<u>Retaining Walls</u>	<u>Bridge 1</u>	<u>Bridge 2</u>
DATE OF ESTIMATE	00/00/00	00/00/00	00/00/00
Name	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX
Bridge Number	57-XXX	57-XXX	57-XXX
Structure Type	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX
Width (Feet) [out to out]	0.00 LF	0.00 LF	0.00 LF
Total Length (Feet)	0.00 LF	0.00 LF	0.00 LF
Total Area (Square Feet)	0 SQFT	0.00 SQFT	0.0 SQFT
Structure Depth (Feet)	0.00 LF	0.00 LF	0.00 LF
Footing Type (pile or spread)	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX
Cost Per Square Foot	\$0.00	\$0.00	\$0.00

COST OF EACH STRUCTURE	\$0.00	\$0.00	\$0.00
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TOTAL COST OF BRIDGES	\$1,512,000.00
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TOTAL COST OF RETAINING	\$0.00
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TOTAL COST OF STRUCTURES¹	\$1,900,000.00
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Estimate Prepared By: _____
XXXXXXXXXXXXXXXXXXXX ----- Division of Structures

_____ Date

¹Structure's Estimate includes Overhead and Mobilization.
Add more sheets if needed. Call them 9a, 9b, 9c, ..., etc

DO NOT PRINT THIS SHEET AS PART OF COST ESTIMATE ATTACHMENT TO PROJECT INITIATION OR APPROVAL DOCUMENTS.

III. RIGHT OF WAY

Fill in all of the available information from the Right of Way data sheet.

A)	A1) Acquisition, including Excess Land Purchases, Damages & Goodwill,		\$	0
	A2) SB-1210		\$	0
B)	Acquisition of Offsite Mitigation		\$	0
C)	C1) Utility Relocation (State Share)		\$	0
	C2) Potholing (Design Phase)		\$	0
D)	Railroad Acquisition		\$	0
E)	Clearance / Demolition		\$	0
F)	Relocation Assistance (RAP and/or Last Resort Housing Costs)		\$	0
G)	Title and Escrow		\$	0
H)	Environmental Review		\$	0
I)	Condemnation Settlements	<u>0%</u>	\$	0
	(Items G & H applied to items A + B)			
J)	Design Appreciation Factor	0%	\$	0
K)	Utility Relocation (Construction Cost)		\$	0

L)

TOTAL RIGHT OF WAY ESTIMATE	\$0
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(Excluding Item #8 - Hazardous Waste)

M)

TOTAL R/W ESTIMATE: Escalated	\$0
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N)

Right of Way Support	\$	0
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Support Cost
Estimate Prepared By _____ Project Coordinator¹ _____ Phone _____

Utility Estimate
Prepared By _____ Utility Coordinator² _____ Phone _____

R/W Acquisition
Estimate Prepared By _____ Right of Way Estimator³ _____ Phone _____

¹ When estimate has Support Costs only ² When estimate has Utility Relocation ³ When R/W Acquisition is required

DO NOT PRINT THIS SHEET AS PART OF COST ESTIMATE ATTACHMENT TO PROJECT INITIATION OR APPROVAL DOCUMENTS.

IV. SUPPORT COST ESTIMATE SUMMARY

Please obtain a P3 report (CL#3) from PPM to fill in the support cost for these categories.

SB-45 CATEGORY SUPPORT COST	PREVIOUS	FY 10/11	FY 11/12	FY 12/13	FY 13/14	FY 14/15	FY 15/16	FY 16/17	FY 17/18	FUTURE	P3 Total	Support Ratio
PR/ED (PD,PE,PM)											\$ -	0.00%
PS&E (PS)											\$ -	0.00%
R/W (RW)											\$ -	0.00%
CONSTRUCTION (CM)											\$ -	0.00%
Total Support Cost:	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	0.00%

Note: It is assumed that the Support Costs are already escalated by Programming to the year of expenditure. Use project Programming Sheet data

Total Capital Cost:	\$4,467,000
Total Capital Outlay Support Cost:	\$0
Overall Percent Support Cost:	0.00%

V. ESCALATED CONSTRUCTION COST ESTIMATE SUMMARY

Note: Right of way escalated cost are accounted for on sheet 10 of 11.

Date of Estimate (Month/Year) Month / Year
 Estimated Date of Construction Start (Month/Year) 0 / 0
 Number of Working Days 500 WD
 Estimated Mid-Point of Construction (Month/Year) 0 / 0

YEAR FORECASTED ESCALATION	0	1	2	3	4	5	6	7	8	9	FUTURE

ESCALATED CONSTRUCTION COSTS	0	1	2	3	4	5	6	7	8	9	FUTURE	TOTAL ESCALATED COSTS
ROADWAY ITEMS	\$ 2,567,000	\$ 2,567,000	\$ 2,567,000	\$ 2,567,000	\$ 2,567,000	\$ 2,567,000	\$ 2,567,000	\$ 2,567,000	\$ 2,567,000	\$ 2,567,000	\$ 2,567,000	\$ 2,567,000
STRUCTURE ITEMS	\$ 1,900,000	\$ 1,900,000	\$ 1,900,000	\$ 1,900,000	\$ 1,900,000	\$ 1,900,000	\$ 1,900,000	\$ 1,900,000	\$ 1,900,000	\$ 1,900,000	\$ 1,900,000	\$ 1,900,000
SUBTOTAL	\$ 4,467,000	\$ 4,467,000	\$ 4,467,000	\$ 4,467,000	\$ 4,467,000	\$ 4,467,000	\$ 4,467,000	\$ 4,467,000	\$ 4,467,000	\$ 4,467,000	\$ 4,467,000	\$ 4,467,000

Approved by: _____
Project Control Engineer

_____ Date

Preliminary Cost Estimate

Project ID:

Type of Estimate :

Program Code :

Project Limits :

Description:

Scope :

Alternative : Single Point Diamond Interchange

	Current Cost	Escalated Cost
ROADWAY ITEMS	\$ 15,637,400	\$ 15,637,400
STRUCTURE ITEMS	\$ 10,100,000	\$ 10,100,000
SUBTOTAL CONSTRUCTION COST	\$ 25,737,400	\$ 25,737,400
RIGHT OF WAY	\$ -	\$ -
TOTAL CAPITAL OUTLAY COST	\$ 25,738,000	\$ 25,738,000
PR/ED SUPPORT	\$ -	\$ -
PS&E SUPPORT	\$ -	\$ -
RIGHT OF WAY SUPPORT	\$ -	\$ -
CONSTRUCTION SUPPORT	\$ -	\$ -
TOTAL CAPITAL OUTLAY SUPPORT COST*	\$ -	\$ -
TOTAL PROJECT COST	\$ 25,750,000	\$ 25,750,000

If Project has been programmed enter Programmed Amount

\$ -

Date of Estimate (Month/Year) Month / Year /

Estimated Date of Construction Start (Month/Year) /

Number of Working Days Working Days

Estimated Mid-Point of Construction (Month/Year) Month / Year

Number of Plant Establishment Days Days

Estimated Project Schedule

PID Approval
PA/ED Approval
PS&E
RTL
Begin Construction

Approved by Project
Manager

(xxx) xxx-xxxx

Project Manager

Date

Phone

I. ROADWAY ITEMS SUMMARY

Section		Cost
1	Earthwork	\$ 2,199,000
2	Pavement Structural Section	\$ 3,000,000
3	Drainage	\$ 1,000,000
4	Specialty Items	\$ 1,254,000
5	Environmental	\$ 350,000
6	Traffic Items	\$ 1,800,000
7	Detours	\$ -
8	Minor Items	\$ -
9	Roadway Mobilization	\$ 960,300
10	Supplemental Work	\$ 480,200
11	State Furnished	\$ -
12	Contingencies	\$ 3,608,700
13	Overhead	\$ 985,200
TOTAL ROADWAY ITEMS		\$ 15,637,400

Estimate Prepared By _____
Name and Title Date Phone

Estimate Reviewed By _____
Name and Title Date Phone

By signing this estimate you are attesting that you have discussed your project with all functional units and have incorporated all their comments or have discussed with them why they will not be incorporated.

SECTION 7: DETOURS

Include constructing, maintaining, and removal

Item code	Unit	Quantity	Unit Price (\$)	Cost
0713XX Temporary Fence (Type X)	LF	x	= \$	-
07XXXX Temporary Drainage	LS	x	= \$	-
120143 Temporary Pavement Delineation	LF	x	= \$	-
1286XX Temporary Signals	EA	x	= \$	-
129000 Temporary Railing (Type K)	LF	x	= \$	-
190101 Roadway Excavation	CY	x	= \$	-
198001 Imported Borrow	CY	x	= \$	-
198050 Embankment	CY	x	= \$	-
250401 Class 4 Aggregate Subbase	CY	x	= \$	-
260201 Class 2 Aggregate Base	CY	x	= \$	-
390132 Hot Mix Asphalt (Type A)	TON	x	= \$	-
XXXXXX Some Item	LS	x	= \$	-
TOTAL DETOURS				\$ -

SUBTOTAL SECTIONS 1-7 \$ 9,603,000

SECTION 8: MINOR ITEMS

8A - Americans with Disabilities Act Items

ADA Items 0.0% \$ -

8B - Bike Path Items

Bike Path Items 0.0% \$ -

8C - Other Minor Items

Other Minor Items 0.0% \$ -

Total of Section 1-7 \$ 9,603,000 x 0.0% = \$ -

TOTAL MINOR ITEMS \$ -

SECTIONS 9: MOBILIZATION

Item code	Quantity	Unit Price (\$)	Cost
999990 Total Section 1-8	\$ 9,603,000	x 10%	= \$ 960,300
TOTAL MOBILIZATION			\$ 960,300

SECTION 10: SUPPLEMENTAL WORK

Item code	Unit	Quantity	Unit Price (\$)	Cost
066015 Federal Trainee Program	LS	x	= \$	-
066063 Traffic Management Plan - Public Informatic	LS	x	= \$	-
066090 Maintain Traffic	LS	x	= \$	-
066094 Value Analysis	LS	x	= \$	-
066204 Remove Rock & Debris	LS	x	= \$	-
066222 Locate Existing Cross-Over	LS	x	= \$	-
066670 Payment Adjustments For Price Index Fluct	LS	x	= \$	-
066700 Partnering	LS	x	= \$	-
066866 Operation of Existing Traffic Management S	LS	x	= \$	-
066920 Dispute Review Board	LS	x	= \$	-
XXXXXX Some Item	LS	x	= \$	-

Cost of NPDES Supplemental Work specified in Section 5C = \$ -

Total Section 1-8 \$ 9,603,000 5% = \$ 480,150

TOTAL SUPPLEMENTAL WORK \$ 480,200

II. STRUCTURE ITEMS

	<u>Retaining Walls</u>	<u>Bridge 1</u>	<u>Bridge 2</u>
DATE OF ESTIMATE	00/00/00	00/00/00	00/00/00
Building Name	XXXXXXXXXXXXXXXXXXXX	Missouri Flat Road OC	Weber Creek Bridge L/R
Bridge Number	57-XXX	57-XXX	57-XXX
Structure Type	XXXXXXXXXXXXXXXXXXXX	CIP Concrete Box	Steel
Width (Feet) [out to out]	LF	0.00 LF	0.00 LF
Total Building Length (Feet)	LF	0.00 LF	0.00 LF
Total Area (Square Feet)	5920 SQFT	35000 SQFT	9200 SQFT
Structure Depth (Feet)	LF	0.00 LF	0.00 LF
Footing Type (pile or spread)	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX
Cost Per Square Foot	\$100.00	\$120.00	\$300.00

COST OF EACH STRUCTURE	\$592,000.00	\$4,200,000.00	\$2,760,000.00
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DATE OF ESTIMATE	00/00/00	00/00/00	00/00/00
Name	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX
Bridge Number	57-XXX	57-XXX	57-XXX
Structure Type	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX
Width (Feet) [out to out]	0.00 LF	0.00 LF	0.00 LF
Total Length (Feet)	0.00 LF	0.00 LF	0.00 LF
Total Area (Square Feet)	0 SQFT	0.00 SQFT	0.0 SQFT
Structure Depth (Feet)	0.00 LF	0.00 LF	0.00 LF
Footing Type (pile or spread)	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX
Cost Per Square Foot	\$0.00	\$0.00	\$0.00

COST OF EACH STRUCTURE	\$0.00	\$0.00	\$0.00
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TOTAL COST OF BRIDGES	\$6,960,000.00
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TOTAL COST OF RETAINING	\$592,000.00
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TOTAL COST OF STRUCTURES¹	\$10,100,000.00
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Estimate Prepared By: _____
XXXXXXXXXXXXXXXXXXXX ----- Division of Structures

_____ Date

¹Structure's Estimate includes Overhead and Mobilization.
Add more sheets if needed. Call them 9a, 9b, 9c, ..., etc

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III. RIGHT OF WAY

Fill in all of the available information from the Right of Way data sheet.

A)	A1) Acquisition, including Excess Land Purchases, Damages & Goodwill,		\$	0
	A2) SB-1210		\$	0
B)	Acquisition of Offsite Mitigation		\$	0
C)	C1) Utility Relocation (State Share)		\$	0
	C2) Potholing (Design Phase)		\$	0
D)	Railroad Acquisition		\$	0
E)	Clearance / Demolition		\$	0
F)	Relocation Assistance (RAP and/or Last Resort Housing Costs)		\$	0
G)	Title and Escrow		\$	0
H)	Environmental Review		\$	0
I)	Condemnation Settlements	0%	\$	0
	(Items G & H applied to items A + B)			
J)	Design Appreciation Factor	0%	\$	0
K)	Utility Relocation (Construction Cost)		\$	0

L)

TOTAL RIGHT OF WAY ESTIMATE	\$0
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(Excluding Item #8 - Hazardous Waste)

M)

TOTAL R/W ESTIMATE: Escalated	\$0
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N)

Right of Way Support	\$	0
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Support Cost
Estimate Prepared By _____ Project Coordinator¹ _____ Phone _____

Utility Estimate
Prepared By _____ Utility Coordinator² _____ Phone _____

R/W Acquisition
Estimate Prepared By _____ Right of Way Estimator³ _____ Phone _____

¹ When estimate has Support Costs only ² When estimate has Utility Relocation

³ When R/W Acquisition is required

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PR/ED (PD,PE,PM)											\$ -	0.00%
PS&E (PS)											\$ -	0.00%
R/W (RW)											\$ -	0.00%
CONSTRUCTION (CM)											\$ -	0.00%
Total Support Cost:	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	0.00%

Note: It is assumed that the Support Costs are already escalated by Programming to the year of expenditure. Use project Programming Sheet data.

Total Capital Cost:	\$25,738,000
Total Capital Outlay Support Cost:	\$0
Overall Percent Support Cost:	0.00%

V. ESCALATED CONSTRUCTION COST ESTIMATE SUMMARY

Note: Right of way escalated cost are accounted for on sheet 10 of 11.

Month / Year
 Date of Estimate (Month/Year) 0 / 0
 Estimated Date of Construction Start (Month/Year) 0 / 0
 Number of Working Days 500 WD
 Estimated Mid-Point of Construction (Month/Year) 0 / 0

YEAR	0	1	2	3	4	5	6	7	8	9	FUTURE
FORECASTED ESCALATION RATE*											

ESCALATED CONSTRUCTION COSTS	0	1	2	3	4	5	6	7	8	9	FUTURE	TOTAL ESCALATED COSTS
ROADWAY ITEMS	\$ 15,637,400	\$ 15,637,400	\$ 15,637,400	\$ 15,637,400	\$ 15,637,400	\$ 15,637,400	\$ 15,637,400	\$ 15,637,400	\$ 15,637,400	\$ 15,637,400	\$ 15,637,400	\$ 15,637,400
STRUCTURE ITEMS	\$ 10,100,000	\$ 10,100,000	\$ 10,100,000	\$ 10,100,000	\$ 10,100,000	\$ 10,100,000	\$ 10,100,000	\$ 10,100,000	\$ 10,100,000	\$ 10,100,000	\$ 10,100,000	\$ 10,100,000
SUBTOTAL	\$ 25,737,400	\$ 25,737,400	\$ 25,737,400	\$ 25,737,400	\$ 25,737,400	\$ 25,737,400	\$ 25,737,400	\$ 25,737,400	\$ 25,737,400	\$ 25,737,400	\$ 25,737,400	\$ 25,737,400

Approved by: _____ Project Control Engineer _____ Date _____