

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

FILE P. I. No. 0006476, Dodge/ Laurens Counties
CSSTP-0006-00 (476)
Safety Improvements on SR 117-
Eastman to SR 29/US 441

OFFICE Preconstruction

DATE June 22, 2009

FROM  Genetha Rice-Singleton, Assistant Director of Preconstruction

TO  SEE DISTRIBUTION

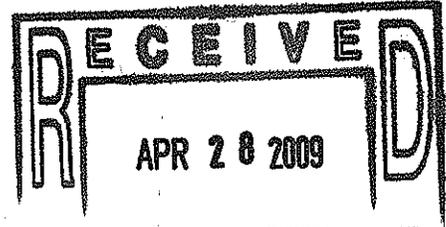
SUBJECT APPROVED REVISED PROJECT CONCEPT REPORT

Attached for your files is the approval for subject project.

Attachment

DISTRIBUTION:

Ron Wishon
Glenn Bowman
Ken Thompson
Michael Henry
Keith Golden
Tony Collins
Angela Alexander
George Brewer
Alan Smith
BOARD MEMBER



DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

FILE CSSTP-0006-00(476) Dodge - Laurens County OFFICE Tennille
 P.I. # 0006476
 Safety improvements on SR 117 fm Eastman to SR 29/US 441 DATE 4-14-09

FROM Douglas Alan Smith, District Design Engineer

TO Genetha Rice-Singleton, Assistant Director of Preconstruction

SUBJECT **REVISED CONCEPT REPORT**

Attached is the original copy of the Revised Concept Report for your further handling for approval in accordance with the Plan Development Process (PDP).

The above mentioned project consists of safety improvements on SR 117 from the City of Eastman in Dodge County to SR 29 /US 441 in Laurens County. The Concept Report is being revised to eliminate Sites 3,4,7,8,9,11,12,13,16,17,19 and 20 in order to reduce impacts to environmentally sensitive areas.

The revised concept as presented herein and submitted for approval is consistent with that which is included in the Regional Transportation Improvement Program (RTP) and/or the State Transportation Improvement Program (STIP).

DATE 4/28/09

Angela T. Alexander
State Transportation Planning Administrator

If any further assistance is needed, please contact me at (478) 552-4642.

DAS

cc:

- Ron Wishon, ~~Interim~~ Project Review Engineer
- Glenn Bowman, State Environment/Location Engineer
- Keith Golden, State Traffic Safety and Design Engineer
- Angela T. Alexander, State Transportation Planning Administrator
- Jamie Simpson, State Transportation Financial Management Administrator

REVISED PROJECT CONCEPT REPORT

Need and Purpose: Crash data was queried for Project CSSTP-0006-00(476), PI 0006476 for the years 2005-2007. Emphasis was placed on Run-Off Road, Wet Surface and Nighttime crashes. These combined numbers were compared to the statewide averages for like roadways functionally classified as Rural Minor Arterials. The need exists to improve driver awareness along this portion of SR 117 in order to prevent "Run-Off-Road" type crashes. The purpose of this project is to install rumble striping on the edge line to improve driver awareness throughout the project limits and to improve safety by installing guardrail at points of possible hazards such as large drainage structures that have a history of accidents occurring near them.

SR 117 Dodge (MP 20.38 -29.30) & Laurens County (MP 0.00-11.75)*					
Year	Crashes	% Crashes	Crash Rate**	Injuries	Fatalities
Total Crashes					
2005	21	-	121	36	0
2006	33	-	165	26	1
2007	23	-	124	25	0
ROR Crashes					
2005	3	14.3%	17	4	0
2006	11	33.3%	55	6	1
2007	7	30.4%	38	4	0
Avg.	7	27.3%			
ROR Wet Surface Crashes					
2005	2	-		3	0
2006	2	-		1	0
2007	1	-		1	0
ROR Wet Surface Nighttime Crashes					
2005	1	-		1	0
2006	1	-		0	0
2007	0	-		0	0
ROR Nighttime Crashes					
2005	2	-		2	0
2006	5	-		4	0
2007	0	-		0	0

*Rural Minor Arterial **Note: Rates are per 100 Million Vehicle Miles

The number of Run-Off Road (ROR) crashes broken down by Nighttime, Wet Surface Nighttime and Wet Surface alone were not statistically significant enough to allow for any detailed comparisons. Accordingly, the ROR crashes were aggregated and compared to Rural Minor Arterial roadways statewide. While the crash rate for SR 117 for all crashes was less than the statewide rates for each of the years 2005-2007 (121/181, 165/179, 124/187), it was observed that ROR crashes were 1.5 times more likely within the project limits compared to the statewide average for similarly classified roadways.

Project Location: This project is located in Dodge and Laurens County southwest of the City of Dublin. The project begins at the eastern city limits of the City of Eastman and continues easterly along SR 117 to the intersection of SR 29/US 441 in Laurens County.

Project: CSSTP-0006-00(476)
County: Dodge - Laurens
P.I. #: 0006476
Revised Concept Report

Description of the approved concept: *This project consists of roadway safety improvements at 20 sites along SR 117 between the City of Eastman in Dodge County to SR 29/US 441 in Laurens County. The existing roadway consists of one 12-ft travel lane in each direction with rural shoulders. The horizontal and vertical alignments meet the proposed 55mph speed design. Construction will consist of the extension of drainage structures located at the 20 sites, installation of guardrail where required, and slope reconstruction. Traffic will be maintained on SR 117 during construction.*

PDP Classification: Major: Minor:

Federal Oversight: Full Oversight Exempt SF Other

Functional Classification: Rural Minor Arterial

U. S. Route Number(s): None

State Route Number(s): 117

Traffic (AADT) as shown in the approved concept:

Current Year: 3300 (2009)

Design Year: 4600 (2029)

Proposed features to be revised:

- *Project Scope - Delete Sites 3,4,7,8,9,11,12,13,16,17,19 and 20. Keep Sites 1 and 2 as is, renumber Site 5 to 3, Site 6 to 4, Site 10 to 5, Site 14 to 6, Site 15 to 7 and Site 18 to 8.*

Describe the revised feature(s) to be approved: *A meeting was held on January 14, 2009 between District Two design and environmental personnel and the Office of Traffic Safety and Design personnel to discuss each location involved with the above subject project. This meeting was held in order to evaluate a request of the project ecologist to discuss environmental impacts and possible reductions in stream and wetland impacts throughout the project.*

Upon investigation of the police reports for the accident data available for this project, it was determined that there were 15 accidents along this route in the past three years. Of those accidents, there were 2 rollover accidents in which one resulted in a fatality. The remainder of the accidents were involving vehicles leaving the roadway due to falling asleep while driving, or avoiding wildlife which resulted in another fatality of an unborn child.

Each site was then evaluated to determine if the locations proposed by this project were directly involved with any of the reported accidents. One site was directly involved with a motor vehicle crash that resulted in a fatality. No other accidents were related to any of the areas currently proposed by this project. Then, each site was evaluated by structure size, approach slopes, height of fill, clear zone, stream impacts and wetland impacts to determine which sites are viable for improvement or deletion from the project. After evaluation, it has been determined that the following sites are the only sites warranting improvements were sites 1, 2, 5, 6, 10, 14, 15 and 18. (See Attached recommendation letter dated 1-15-09). After this was approved by the Assistant State Traffic and Safety Engineer, it was also decided to use wet weather inundated striping throughout the project limits instead of the 4-ft. paved shoulders and rumble strips. This is a cost saving alternative which also minimizes environmental impacts.

Project: CSSTP-0006-00(476)
County: Dodge - Laurens
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Revised Concept Report

Updated traffic data (AADT):

Current Year: 3501 (2011)

Design Year: 4880 (2031)

Programmed/Schedule:

P.E.: Authorized

R/W: LUMP

Construction: LUMP

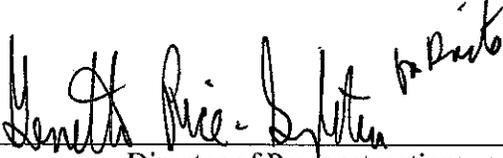
VE Study Required: Yes No

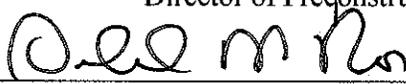
Revised cost estimates:

1. Construction cost: \$2,466,065.00
2. Right-of-way: \$155,250.00
3. Utilities: \$0.00

Is the project located in a Non-attainment area? Yes No

Recommendation: *The District recommends that the proposed revision to the concept be approved for implementation.*

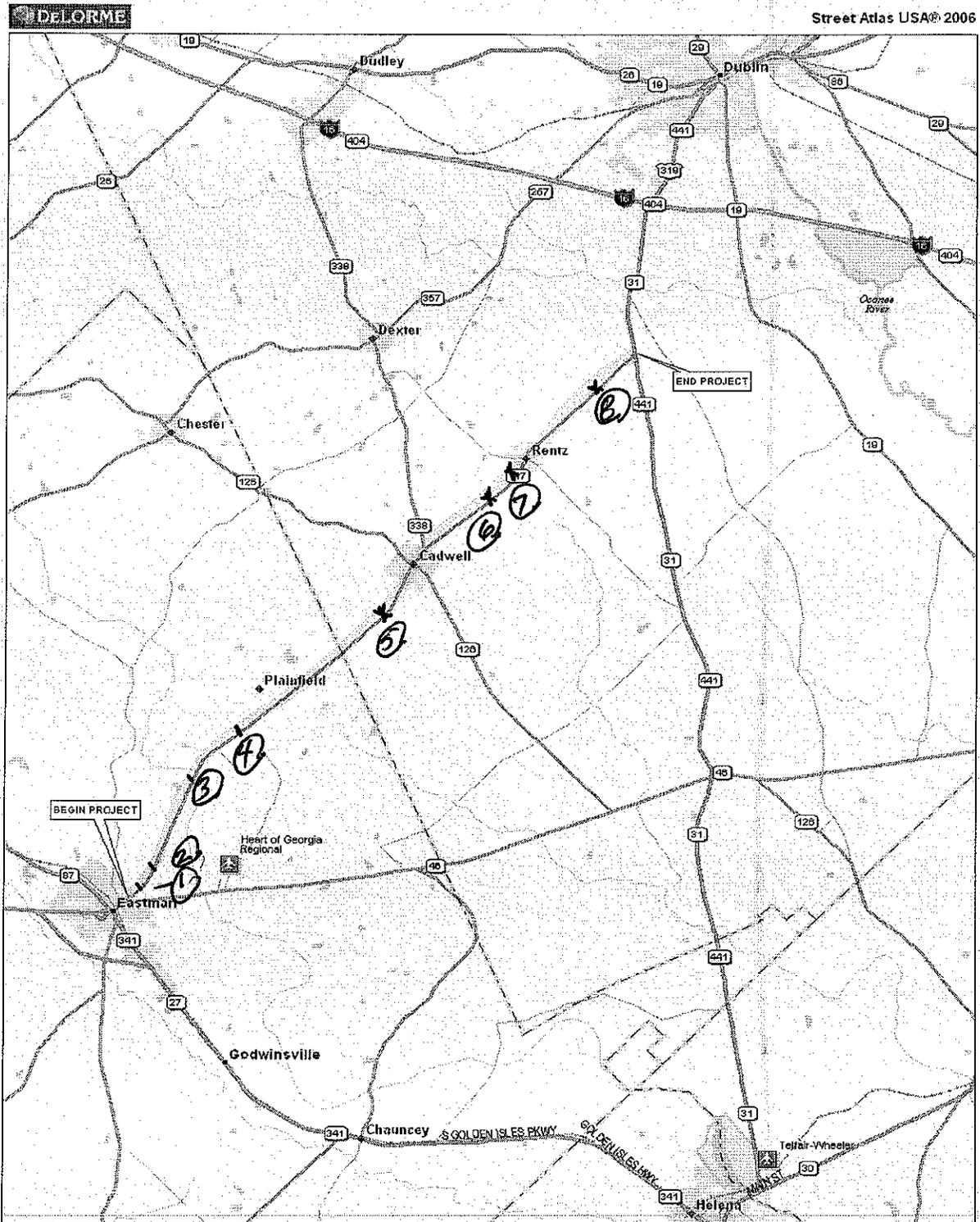
Concur: 
Director of Preconstruction

Approve: 
Chief Engineer

Attachments:

1. Sketch Map
2. Site Recommendations
3. Revised Construction Cost Estimate
4. Fuel index calculation form

Project: CSSTP-0006-00(476)
County: Dodge - Laurens
P.I. #: 0006476
Revised Concept Report



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Project: CSSTP-0006-00(476)
County: Dodge - Laurens
P.I. #: 0006476
Revised Concept Report

DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA

0006476 Dodge – Laurens County – Site Recommendations to Traffic Safety and Design

Site # 1 MP 20.21 to MP 20.29 Dodge County

Accidents associated with this structure: None
Structure Size: Double 36" pipe and Sing. 30" pipe
Approach Slope ratio: 2:1
Height of Fill at Structure: 8-ft to 10-ft
Amount of Stream Impacts: 347-lf
Amount of Wetland Impacts: 0.20-Ac

Recommendations:

This site was *designated to remain* in the project due to the height of fill. Recommend installing guardrail to reduce ecological impacts.

Site # 2 MP 20.54 to MP 20.63 Dodge County

Accidents associated with this structure: None
Structure Size: Single 10-ft x 10-ft culvert
Approach Slope ratio: 2:1
Height of Fill at Structure: 12-ft.
Amount of Stream Impacts: 429-lf
Amount of Wetland Impacts: 0.08-Ac

Recommendations:

This site was *designated to remain* in the project. Due to the height of fill and the proximity of the structures headwalls to the edge of pavement, recommend extending the structure. Recommend installing guardrail to reduce ecological impacts.

Site # 3 MP 22.90 to MP 22.98 Dodge County

Accidents associated with this structure: None
Structure Size: Quadruple 10-ft x 6-ft culvert
Approach Slope ratio: 4:1 or flatter
Height of Fill at Structure: 8-ft
Amount of Stream Impacts: 150-lf
Amount of Wetland Impacts: 0.51-Ac

Recommendations:

This site was *designated to be eliminated* from the project because the culvert barrel has already been constructed to 26-ft. from the edge of travel way and the approach slopes are 4:1 or flatter. There is already guardrail installed at this location.

Site # 4 MP 24.10 to MP 24.27 Dodge County

Accidents associated with this structure: None
Structure Size: 320-ft concrete bridge
Approach Slope ratio: 4:1 or flatter
Height of Fill at Structure: 6-ft to 8-ft
Amount of Stream Impacts: None
Amount of Wetland Impacts: None

Recommendations:

This site was *designated to be eliminated* from the project because the bridge already has guardrail installed that meets current criteria for length and anchors. The approach slopes are 4:1 or flatter also.

Site # 5 MP 25.70 to MP 25.79 Dodge County

Accidents associated with this structure: None
Structure Size: Triple 10-ft x 5-ft culvert
Approach Slope ratio: 2:1
Height of Fill at Structure: 6-ft to 8-ft
Amount of Stream Impacts: 175-lf
Amount of Wetland Impacts: 0.22 Ac

Recommendations:

This site was *designated to remain* in the project because of the horizontal span created by such a large structure, the proximity of the headwalls to the edge of travel way, the steep slopes and the height of fill at the structure. Recommend installing guardrail to reduce ecological impacts.

Site # 6 MP 27.91 to MP 27.99 Dodge County

Accidents associated with this structure: None
Structure Size: Triple 10-ft x 5-ft culvert
Approach Slope ratio: 2:1
Height of Fill at Structure: 6-ft to 8-ft
Amount of Stream Impacts: 150-lf
Amount of Wetland Impacts: 0.31 Ac

Recommendations:

This site was *designated to remain* in the project because of the horizontal span created by such a large structure, the proximity of the headwalls to the edge of travel way, the steep slopes and the height of fill at the structure. Recommend installing guardrail to reduce ecological impacts.

Site # 7 MP 29.24 Dodge County to MP 0.04 Laurens County

Accidents associated with this structure: None
Structure Size: Dbl 8-ft x 8-ft culvert
Approach Slope ratio: 4:1 or flatter
Height of Fill at Structure: 9-ft
Amount of Stream Impacts: 125-ft
Amount of Wetland Impacts: 1.12-Ac

Recommendations:

This site was *designated to be eliminated* from the project because the structure has no accident data associated with it, the slopes on the approaches are 4:1 or flatter and the culvert end is located well away from the normal edge of travel way.

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Site # 8 MP 0.09 to MP 0.16 Laurens County

Accidents associated with this structure: None
Structure Size: Single 8-ft x 8-ft culvert
Approach Slope ratio: 4:1 or flatter
Height of Fill at Structure: 9-ft
Amount of Stream Impacts: 135-ft
Amount of Wetland Impacts: 0.14-Ac

Recommendations:

This site was *designated to be eliminated* from the project because the structure has no accident data associated with it, the slopes on the approaches are 4:1 or flatter and the culvert end is located well away from the normal edge of travel way.

Site # 9 MP 1.16 to MP 1.25 Laurens County

Accidents associated with this structure: None
Structure Size: Triple 9-ft x 8-ft culvert
Approach Slope ratio: 4:1 or flatter
Height of Fill at Structure: 9-ft
Amount of Stream Impacts: 150-ft
Amount of Wetland Impacts: 0.43-Ac

Recommendations:

This site was *designated to be eliminated* from the project because the structure has no accident data associated with it, the slopes on the approaches are 4:1 or flatter and the culvert end is located well away from the normal edge of travel way.

Site # 10 MP 1.48 to MP 1.56 Laurens County

Accidents associated with this structure: (1)
Structure Size: Triple 10-ft x 7-ft culvert
Approach Slope ratio: 2:1
Height of Fill at Structure: 9-ft.
Amount of Stream Impacts: 175-lf
Amount of Wetland Impacts: 0.47 Ac

Recommendations:

This site was *designated to remain* in the project because of the horizontal span created by such a large structure, the proximity of the headwalls to the edge of travel way, the steep slopes and the height of fill at the structure. Also, this structure has been directly related to one fatality involving a vehicle that ran off of the headwall, striking the wing wall and rolling over into the creek bed. Recommend guardrail to reduce ecological impacts.

Site # 11 MP 1.80 to MP 1.89 Laurens County

Accidents associated with this structure:	None
Structure Size:	Single 6-ft x 5-ft culvert
Approach Slope ratio:	4:1 or flatter
Height of Fill at Structure:	6-ft
Amount of Stream Impacts:	100-ft
Amount of Wetland Impacts:	0.28-Ac

Recommendations:

This site was *designated to be eliminated* from the project because the structure has no accident data associated with it, the slopes on the approaches are 4:1 or flatter and the culvert opening span is relatively small. There was an accident that occurred just south of this location involving a vehicle which ran off the road due to sleeping, over compensated, lost control and hit several fences and a tree on the west side of SR 117. The victim was the unborn child of the driver. But the accident did not involve this structure at all.

Site # 12 MP 2.18 to MP 2.24 Laurens County

Accidents associated with this structure:	None
Structure Size:	Single 6-ft x 5-ft culvert
Approach Slope ratio:	4:1 or flatter
Height of Fill at Structure:	6-ft.
Amount of Stream Impacts:	125-ft
Amount of Wetland Impacts:	0.05-Ac

Recommendations:

This site was *designated to be eliminated* from the project because the structure has no accident data associated with it, the slopes on the approaches are 4:1 or flatter and the span of the opening is relatively small.

Site # 13 MP 2.70 to MP 2.78 Laurens County

Accidents associated with this structure:	None
Structure Size:	Single 4-ft x 4-ft culvert
Approach Slope ratio:	4:1 or flatter
Height of Fill at Structure:	6-ft.
Amount of Stream Impacts:	0-ft
Amount of Wetland Impacts:	0.48-Ac

Recommendations:

This site was *designated to be eliminated* from the project because the structure has no accident data associated with it, the slopes on the approaches are 4:1 or flatter and the span of the opening is relatively small.

Site # 14 MP 5.58 to MP 5.66 Laurens County

Accidents associated with this structure:	None
Structure Size:	Double 8-ft x 6-ft culvert
Approach Slope ratio:	2:1
Height of Fill at Structure:	8-ft to 10-ft.
Amount of Stream Impacts:	125-lf
Amount of Wetland Impacts:	0.00 Ac

Recommendations:

This site was *designated to remain* in the project because of the steep slopes and the height of fill at the structure. This structure is also located near Taylor Grocery Road, where one of the rollover accidents occurred. Vehicle # 1 was turning left onto Taylor Grocery Road when vehicle # 2 approached it from the rear. Vehicle # 2 did not realize the proximity of vehicle # 1, skidded out of control and came to rest in the ditch located in the southwest quadrant of the intersection. No fatalities occurred. Recommend installing guardrail to reduce ecological impacts.

Site # 15 MP 6.25 to MP 6.33 Laurens County

Accidents associated with this structure:	None
Structure Size:	Triple 9-ft x 5-ft culvert
Approach Slope ratio:	2:1
Height of Fill at Structure:	6-ft to 8-ft
Amount of Stream Impacts:	38-lf
Amount of Wetland Impacts:	0.34 Ac

Recommendations:

This site was *designated to remain* in the project because of the horizontal span created by such a large structure, the proximity of the headwalls to the edge of travel way, the steep slopes and the height of fill at the structure. Recommend installing guardrail to reduce ecological impacts.

Site # 16 MP 6.55 to MP 6.63 Laurens County

Accidents associated with this structure:	None
Structure Size:	Single 6-ft x 4-ft culvert
Approach Slope ratio:	4:1 or flatter
Height of Fill at Structure:	5-ft.
Amount of Stream Impacts:	200-ft
Amount of Wetland Impacts:	0-Ac

Recommendations:

This site was *designated to be eliminated* from the project because the structure has no accident data associated with it, the slopes on the approaches are 4:1 or flatter and the span of the opening is relatively small.

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Site # 17 MP 8.75 to MP 8.84 Laurens County

Accidents associated with this structure: None
Structure Size: Single 8-ft x 6-ft culvert
Approach Slope ratio: 4:1 or flatter
Height of Fill at Structure: 8-ft.
Amount of Stream Impacts: 150-ft
Amount of Wetland Impacts: 0-Ac

Recommendations:

This site was *designated to be eliminated* from the project because the structure has no accident data associated with it, the slopes on the approaches are 4:1 or flatter and the span of the opening is relatively small.

Site # 18 MP 9.41 to MP 9.49 Laurens County

Accidents associated with this structure: None
Structure Size: Triple 9-ft x 8-ft culvert
Approach Slope ratio: 2:1
Height of Fill at Structure: 10-ft
Amount of Stream Impacts: 225-lf
Amount of Wetland Impacts: 0.78 Ac

Recommendations:

This site was *designated to remain* in the project because of the horizontal span created by such a large structure, the proximity of the headwalls to the edge of travel way, the steep slopes and the height of fill at the structure. Mark Wood Road is also very close to this stream which poses another problem for safety. Recommend installing guardrail to reduce ecological impacts.

Site # 19 MP 9.71 to MP 9.82 Laurens County

Accidents associated with this structure: None
Structure Size: Single 4-ft x 4-ft culvert
Approach Slope ratio: 4:1 or flatter
Height of Fill at Structure: 6-ft.
Amount of Stream Impacts: 150-ft
Amount of Wetland Impacts: 0-Ac

Recommendations:

This site was *designated to be eliminated* from the project because the structure has no accident data associated with it, the slopes on the approaches are 4:1 or flatter and the span of the opening is relatively small.

Site # 20 MP 10.83 to MP 10.90 Laurens County

Accidents associated with this structure: None
Structure Size: Double 8-ft x 6-ft culvert
Approach Slope ratio: 4:1 or flatter
Height of Fill at Structure: 9-ft.
Amount of Stream Impacts: 100-ft
Amount of Wetland Impacts: 0.77-Ac

Recommendations:

This site was *designated to be eliminated* from the project because the structure has no accident data associated with it, the slopes on the approaches are 4:1 or flatter and the span of the opening is relatively small.

Project: CSSTP-0006-00(476)
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 Revised Concept Report

Detailed Estimate - 0006476 Dodge - Laurens County

Section ROADWAY

Item Number	Quantity	Units	Unit Price	Item Description	Cost
150-1000	1	LS	50000.00	TRAFFIC CONTROL - CSSTP-0006-00 (476)	50000.00
201-1500	1	LS	25000.00	CLEARING & GRUBBING - CSSTP-0006-00 (476)	25000.00
205-0001	8000	CY	3.36	UNCLASS EXCAV	26880.00
206-0002	20000	CY	4.96	BORROW EXCAV, INCL MATL	99200.00
Section Sub Total:					\$201,080.00

Section SITE # 1

Item Number	Quantity	Units	Unit Price	Item Description	Cost
310-1101	240	TN	13.82	GR AGGR BASE CRS, INCL MATL	3316.80
402-3131	51	TN	36.81	RECYCLED ASPH CONC 9.5 MM SUPERPAVE, GP 2 ONLY, INCL	1877.31
402-4514	81	TN	33.98	RECYCLED ASPH CONC 19 MM SUPERPAVE, GP 1 OR 2, INCL	2752.38
413-1000	60	GL	0.96	BITUM TACK COAT	57.60
436-1000	425	LF	8.26	ASPHALTIC CONCRETE CURB -	3510.50
550-1300	16	LF	42.61	STORM DRAIN PIPE, 30 IN, H 1-10	681.76
550-1420	32	LF	66.38	STORM DRAIN PIPE, 42 IN, H 1-10	2124.16
550-4230	2	EA	646.73	FLARED END SECTION 30 IN, STORM DRAIN	1293.46
550-4242	4	EA	1007.47	FLARED END SECTION 42 IN, STORM DRAIN	4029.88
603-2181	50	SY	36.04	STN DUMPED RIP RAP, TP 3, 18 IN	1802.00
603-6006	10	SY	4.25	SAND-CEMENT BAG RIP RAP, 6 IN	42.50
603-7000	50	SY	3.96	PLASTIC FILTER FABRIC	198.00
641-1200	450	LF	11.90	GUARDRAIL, TP W	5355.00
641-5001	2	EA	440.34	GUARDRAIL ANCHORAGE, TP 1	880.68
641-5012	2	EA	1424.68	GUARDRAIL ANCHORAGE, TP 12	2849.36
Section Sub Total:					\$30,771.39

Section SITE # 2

Item Number	Quantity	Units	Unit Price	Item Description	Cost
207-0203	38	CY	34.30	FOUND BKFILL MATL, TP II	1303.40
310-1101	240	TN	13.82	GR AGGR BASE CRS, INCL MATL	3316.80
402-3131	51	TN	36.81	RECYCLED ASPH CONC 9.5 MM SUPERPAVE, GP 2 ONLY, INCL	1877.31
402-4514	81	TN	33.98	RECYCLED ASPH CONC 19 MM SUPERPAVE, GP 1 OR 2, INCL	2752.38
413-1000	60	GL	0.96	BITUM TACK COAT	57.60
436-1000	425	LF	7.99	ASPHALTIC CONCRETE CURB - 6"	3395.75
500-3101	152	CY	415.22	CLASS A CONCRETE	63113.44
511-1000	12355	LB	0.62	BAR REINF STEEL	7660.10
603-2181	114	SY	36.04	STN DUMPED RIP RAP, TP 3, 18 IN	4108.56
603-6006	10	SY	45.95	SAND-CEMENT BAG RIP RAP, 6 IN	459.50
603-7000	114	SY	3.96	PLASTIC FILTER FABRIC	451.44
610-9099	2	LS	2212.99	REM WINGWALLS & PARAPETS, STA -	4425.98
641-1200	450	LF	11.01	GUARDRAIL, TP W	4954.50
641-5001	2	EA	420.48	GUARDRAIL ANCHORAGE, TP 1	840.96
641-5012	2	EA	1384.73	GUARDRAIL ANCHORAGE, TP 12	2769.46
Section Sub Total:					\$101,487.18

Section SITE # 3 (FORMERLY SITE #5)

Item Number	Quantity	Units	Unit Price	Item Description	Cost
207-0203	85	CY	34.30	FOUND BKFILL MATL, TP II	2915.50
310-1101	240	TN	13.82	GR AGGR BASE CRS, INCL MATL	3316.80
402-3131	51	TN	36.81	RECYCLED ASPH CONC 9.5 MM SUPERPAVE, GP 2 ONLY, INCL	1877.31
402-4514	81	TN	33.98	RECYCLED ASPH CONC 19 MM SUPERPAVE, GP 1 OR 2, INCL	2752.38
413-1000	60	GL	0.96	BITUM TACK COAT	57.60
436-1000	425	LF	8.26	ASPHALTIC CONCRETE CURB -	3510.50
500-3101	144	CY	451.80	CLASS A CONCRETE	65059.20

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511-1000	12157	LB	0.69	BAR REINF STEEL	8388.33
603-2181	100	SY	36.04	STN DUMPED RIP RAP, TP 3, 18 IN	3604.00
603-6006	10	SY	4.25	SAND-CEMENT BAG RIP RAP, 6 IN	42.50
603-7000	100	SY	3.96	PLASTIC FILTER FABRIC	396.00
610-9099	2	LS	2380.04	REM WINGWALLS & PARAPETS, STA -	4760.08
641-1200	450	LF	11.90	GUARDRAIL, TP W	5355.00
641-5001	2	EA	440.34	GUARDRAIL ANCHORAGE, TP 1	880.68
641-5012	2	EA	1424.68	GUARDRAIL ANCHORAGE, TP 12	2849.36
Section Sub Total:					\$105,765.24

Section SITE # 4 (FORMERLY SITE #6)

Item Number	Quantity	Units	Unit Price	Item Description	Cost
207-0203	85	CY	34.30	FOUND BKFILL MATL, TP II	2915.50
310-1101	240	TN	13.82	GR AGGR BASE CRS, INCL MATL	3316.80
402-3131	51	TN	36.81	RECYCLED ASPH CONC 9.5 MM SUPERPAVE, GP 2 ONLY, INCL	1877.31
402-4514	81	TN	33.98	RECYCLED ASPH CONC 19 MM SUPERPAVE, GP 1 OR 2, INCL	2752.38
413-1000	60	GL	0.96	BITUM TACK COAT	57.60
436-1000	425	LF	8.26	ASPHALTIC CONCRETE CURB -	3510.50
500-3101	144	CY	451.80	CLASS A CONCRETE	65059.20
511-1000	12157	LB	0.69	BAR REINF STEEL	8388.33
603-2181	100	SY	36.04	STN DUMPED RIP RAP, TP 3, 18 IN	3604.00
603-6006	10	SY	4.25	SAND-CEMENT BAG RIP RAP, 6 IN	42.50
603-7000	100	SY	3.96	PLASTIC FILTER FABRIC	396.00
610-9099	2	LS	2380.04	REM WINGWALLS & PARAPETS, STA -	4760.08
641-1200	450	LF	11.90	GUARDRAIL, TP W	5355.00
641-5001	2	EA	440.34	GUARDRAIL ANCHORAGE, TP 1	880.68
641-5012	2	EA	1424.68	GUARDRAIL ANCHORAGE, TP 12	2849.36
Section Sub Total:					\$105,765.24

Section SITE # 5 (FORMERLY SITE #10)

Item Number	Quantity	Units	Unit Price	Item Description	Cost
207-0203	32	CY	34.30	FOUND BKFILL MATL, TP II	1097.60
310-1101	240	TN	13.82	GR AGGR BASE CRS, INCL MATL	3316.80
402-3131	51	TN	36.81	RECYCLED ASPH CONC 9.5 MM SUPERPAVE, GP 2 ONLY, INCL	1877.31
402-4514	81	TN	33.98	RECYCLED ASPH CONC 19 MM SUPERPAVE, GP 1 OR 2, INCL	2752.38
413-1000	60	GL	0.96	BITUM TACK COAT	57.60
436-1000	425	LF	8.26	ASPHALTIC CONCRETE CURB -	3510.50
500-3101	161	CY	451.80	CLASS A CONCRETE	72739.80
511-1000	13443	LB	0.69	BAR REINF STEEL	9275.67
603-2181	100	SY	36.04	STN DUMPED RIP RAP, TP 3, 18 IN	3604.00
603-6006	10	SY	4.25	SAND-CEMENT BAG RIP RAP, 6 IN	42.50
603-7000	100	SY	3.96	PLASTIC FILTER FABRIC	396.00
610-9099	2	LS	2380.04	REM WINGWALLS & PARAPETS, STA -	4760.08
641-1200	450	LF	11.90	GUARDRAIL, TP W	5355.00
641-5001	2	EA	440.34	GUARDRAIL ANCHORAGE, TP 1	880.68
641-5012	2	EA	1424.68	GUARDRAIL ANCHORAGE, TP 12	2849.36
Section Sub Total:					\$112,515.28

Section SITE # 6 (FORMERLY SITE #14)

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Item Number	Quantity	Units	Unit Price	Item Description	Cost
207-0203	27	CY	34.30	FOUND BK FILL MATL, TP II	926.10
310-1101	240	TN	13.82	GR AGGR BASE CRS, INCL MATL	3316.80
402-3131	51	TN	36.81	RECYCLED ASPH CONC 9.5 MM SUPERPAVE, GP 2 ONLY, INCL	1877.31
402-4514	81	TN	33.98	RECYCLED ASPH CONC 19 MM SUPERPAVE, GP 1 OR 2, INCL	2752.38
413-1000	60	GL	0.96	BITUM TACK COAT	57.60
436-1000	425	LF	8.26	ASPHALTIC CONCRETE CURB -	3510.50
500-3101	86	CY	451.80	CLASS A CONCRETE	38854.80
511-1000	8050	LB	0.69	BAR REINF STEEL	5554.50
603-2181	100	SY	36.04	STN DUMPED RIP RAP, TP 3, 18 IN	3604.00
603-6006	10	SY	4.25	SAND-CEMENT BAG RIP RAP, 6 IN	42.50
603-7000	100	SY	3.96	PLASTIC FILTER FABRIC	396.00
610-9099	2	LS	2380.04	REM WINGWALLS & PARAPETS, STA -	4760.08
641-1200	450	LF	11.90	GUARDRAIL, TP W	5355.00
641-5001	2	EA	440.34	GUARDRAIL ANCHORAGE, TP 1	880.68
641-5012	2	EA	1424.68	GUARDRAIL ANCHORAGE, TP 12	2849.36
Section Sub Total:					\$74,737.61

Section SITE # 7 (FORMERLY SITE #15)

Item Number	Quantity	Units	Unit Price	Item Description	Cost
207-0203	17	CY	34.30	FOUND BK FILL MATL, TP II	583.10
310-1101	240	TN	13.82	GR AGGR BASE CRS, INCL MATL	3316.80
402-3131	51	TN	36.81	RECYCLED ASPH CONC 9.5 MM SUPERPAVE, GP 2 ONLY, INCL	1877.31
402-4514	81	TN	33.98	RECYCLED ASPH CONC 19 MM SUPERPAVE, GP 1 OR 2, INCL	2752.38
413-1000	60	GL	0.96	BITUM TACK COAT	57.60
436-1000	425	LF	8.26	ASPHALTIC CONCRETE CURB -	3510.50
500-3101	50	CY	451.80	CLASS A CONCRETE	22590.00
511-1000	5100	LB	0.69	BAR REINF STEEL	3519.00
603-2181	100	SY	36.04	STN DUMPED RIP RAP, TP 3, 18 IN	3604.00
603-6006	10	SY	4.25	SAND-CEMENT BAG RIP RAP, 6 IN	42.50
603-7000	100	SY	3.96	PLASTIC FILTER FABRIC	396.00
610-9099	2	LS	2380.04	REM WINGWALLS & PARAPETS, STA -	4760.08
641-1200	450	LF	11.90	GUARDRAIL, TP W	5355.00
641-5001	2	EA	440.34	GUARDRAIL ANCHORAGE, TP 1	880.68
641-5012	2	EA	1424.68	GUARDRAIL ANCHORAGE, TP 12	2849.36
Section Sub Total:					\$56,094.31

Section SITE # 8 (FORMERLY SITE # 18)

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Item Number	Quantity	Units	Unit Price	Item Description	Cost
207-0203	30	CY	34.30	FOUND BK FILL MATL, TP II	1029.00
310-1101	240	TN	13.82	GR AGGR BASE CRS, INCL MATL	3316.80
402-3131	51	TN	36.81	RECYCLED ASPH CONC 9.5 MM SUPERPAVE, GP 2 ONLY, INCL	1877.31
402-4514	81	TN	33.98	RECYCLED ASPH CONC 19 MM SUPERPAVE, GP 1 OR 2, INCL	2752.38
413-1000	60	GL	0.96	BITUM TACK COAT	57.60
436-1000	425	LF	8.26	ASPHALTIC CONCRETE CURB -	3510.50
500-3101	137	CY	451.80	CLASS A CONCRETE	61896.60
511-1000	11628	LB	0.69	BAR REINF STEEL	8023.32
603-2018	100	SY	35.93	STN DUMPED RIP RAP, TP 1, 18 IN	3593.00
603-6006	10	SY	4.25	SAND-CEMENT BAG RIP RAP, 6 IN	42.50
603-7000	100	SY	3.96	PLASTIC FILTER FABRIC	396.00
610-9099	2	LS	2380.04	REM WINGWALLS & PARAPETS, STA -	4760.08
641-1200	450	LF	11.90	GUARDRAIL, TP W	5355.00
641-5001	2	EA	440.34	GUARDRAIL ANCHORAGE, TP 1	880.68
641-5012	2	EA	1424.68	GUARDRAIL ANCHORAGE, TP 12	2849.36
Section Sub Total:					\$100,340.13

Section TEMPORARY EROSION CONTROL					
Item Number	Quantity	Units	Unit Price	Item Description	Cost
163-0232	4	AC	447.96	TEMPORARY GRASSING	1791.84
163-0240	50	TN	193.21	MULCH	9660.50
163-0300	2	EA	1051.94	CONSTRUCTION EXIT	2103.88
163-0520	250	LF	11.77	CONSTRUCT AND REMOVE TEMPORARY PIPE SLOPE DRAIN	2942.50
163-0530	3400	LF	2.20	CONSTRUCT AND REMOVE BALED STRAW EROSION CHECK	7480.00
165-0030	1700	LF	1.23	MAINTENANCE OF TEMPORARY SILT FENCE, TP C	2091.00
165-0070	1700	LF	1.21	MAINTENANCE OF BALED STRAW EROSION CHECK	2057.00
165-0101	2	EA	341.98	MAINTENANCE OF CONSTRUCTION EXIT	683.96
167-0100	6	MO	955.65	WATER QUALITY MONITORING	5733.90
167-0200	2	EA	58.24	WATER QUALITY SAMPLING	116.48
171-0030	3400	LF	3.11	TEMPORARY SILT FENCE, TYPE C	10574.00
Section Sub Total:					\$45,235.06

Section EROSION CONTROL					
Item Number	Quantity	Units	Unit Price	Item Description	Cost
603-2181	500	SY	34.94	STN DUMPED RIP RAP, TP 3, 18 IN	17470.00
603-7000	500	SY	3.51	PLASTIC FILTER FABRIC	1755.00
700-6910	4	AC	739.15	PERMANENT GRASSING	2956.60
700-7000	4	TN	59.55	AGRICULTURAL LIME	238.20
700-7010	10	GL	20.62	LIQUID LIME	206.20
700-8000	3	TN	234.39	FERTILIZER MIXED GRADE	703.17
700-8100	100	LB	1.43	FERTILIZER NITROGEN CONTENT	143.00
Section Sub Total:					\$23,472.17

Section SIGNING - MARKING					
Item Number	Quantity	Units	Unit Price	Item Description	Cost
009-1100	42	LM	22123.00	RAINLINE THERMOPLASTIC SOLID TRAF STRIPE, 5 IN, WHITE	929166.00
656-0005	42	LM	8342.00	REM EXIST SOLID TRAF STRIPE, 5 IN, PAINT	350364.00
Section Sub Total:					\$1,279,530.00

Total Estimated Cost: \$2,236,793.61

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Subtotal Construction Cost	\$2,236,793.61
Engineering 5.0%	\$111,839.68
Construction Contingency 5.0%	\$117,431.66
Fuel Index Calculation	\$42,452.18
	<hr/>
Total Construction Cost	\$2,508,517.10
Right Of Way	\$155,250.00
ReImb. Utilities	\$0.00
	<hr/>
Grand Total Project Cost	\$2,663,767.10

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P.I. Number 6476 County Dodge - Laurens Date 4/15/2009
 Project Number CSSTP-0006-00(476)

Special Provision, Section 109-Measurement and Payment
FUEL PRICE ADJUSTMENT (ENGLISH 125% MAX)

ENTER FPL DIESEL	2.19	ENTER FPL UNLEADED	1.93
ENTER FPM DIESEL	4.928	ENTER FPM UNLEADED	4.3425

<http://www.dot.ga.gov/doingbusiness/Materials/Pages/asphaltcementindex.aspx>

INCREASE ADJUSTMENT	INCREASE ADJUSTMENT
125.00%	125.00%

ROADWAY ITEMS	QUANTITY	DIESEL FACTOR	GALLONS DIESEL	UNLEADED FACTOR	GALLONS UNLEADED	REMARKS
Excavations paid as specified by Sections 205 (CUBIC YARD)	8000.000	0.29	2320.00	0.15	1200.00	
Excavations paid as specified by Sections 206 (CUBIC YARD)	20000.000	0.29	5800.00	0.15	3000.00	
GAB paid as specified by the ton under Section 310 (TON)	1920.000	0.29	556.80	0.24	460.80	
Hot Mix Asphalt paid as specified by the ton under Sections 400 (TON)		2.90		0.71		
Hot Mix Asphalt paid as specified by the ton under Sections 402 (TON)	1056.000	2.90	3062.40	0.71	749.76	
PCC Pavement paid as specified by the square yard under Section 430 (SY)		0.25		0.20		

BRIDGE ITEMS	Quantity	Unit Price	QF/1000	Diesel Factor	Gallons Diesel	Unleaded Factor	Gallons Unleaded	REMARKS
Bridge Excavation (CY) Section 211				8.00		1.50		
Class ___ Concrete (CY) Section 500				8.00		1.50		
Class ___ Concrete (CY) Section 500				8.00		1.50		
Class ___ Concrete (CY) Section 500				8.00		1.50		
Superstru Con Class ___ (CY) Section 500				8.00		1.50		
Superstru Con Class ___ (CY) Section 500				8.00		1.50		
Superstru Con Class ___ (CY) Section 500				8.00		1.50		
Concrete Handrail (LF) Section 500				8.00		1.50		
Concrete Barrier (LF) Section 500				8.00		1.50		

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BRIDGE ITEMS	Quantity	Unit Price	QF/1000	Diesel Factor	Gallons Diesel	Unleaded Factor	Gallons Unleaded	REMARKS
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Stru Steel Plan Quantity (LB) Section 501				8.00	1.50		
Stru Steel Plan Quantity (LB) Section 501				8.00	1.50		
PSC Beams____ (LF) Section 507				8.00	1.50		
PSC Beams____ (LF) Section 507				8.00	1.50		
PSC Beams____ (LF) Section 507				8.00	1.50		
Stru Reinf Plan Quantity(LB) Section 511				8.00	1.50		
Stru Reinf Plan Quantity(LB) Section 511				8.00	1.50		
Bar Reinf Steel (LB) Section 511				8.00	1.50		
Piling____ inch (LF) Section 520				8.00	1.50		
Piling____ inch (LF) Section 520				8.00	1.50		
Piling____ inch (LF) Section 520				8.00	1.50		
Piling____ inch (LF) Section 520				8.00	1.50		
Piling____ inch (LF) Section 520				8.00	1.50		
Piling____ inch (LF) Section 520				8.00	1.50		
Drilled Caisson____ (LF) Section 524				8.00	1.50		
Drilled Caisson____ (LF) Section 524				8.00	1.50		
Drilled Caisson____ (LF) Section 524				8.00	1.50		
Pile Encasement____ (LF) Section 547				8.00	1.50		
Pile Encasement____ (LF) Section 547				8.00	1.50		
SUM QF DIESEL=				11739.20	SUM QF UNLEADED=		5410.56
DIESEL PRICE ADJUSTMENT(\$)					\$29,565.18		
UNLEADED PRICE ADJUSTMENT(\$)					\$12,008.74		

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ASPHALT CEMENT PRICE ADJUSTMENT (BITUMINOUS TACK COAT 125% MAX)					
APPLICABLE TO CONTRACTS/PROJECTS CONTAINING THE 413 SPECIFICATION, SECTION 413.5.01 ADJUSTMENTS ASPHALT PRICE ADJUSTMENT FOR BITUMINOUS TACK COAT					
http://www.dot.ga.gov/doingbusiness/Materials/Pages/asphaltcementindex.aspx					
ENTER APL		355	ENTER APM		798.75
125.00%			INCREASE ADJUSTMENT		
L.I.N.	TYPE	TACK (GALLONS)	TACK (TONS)	REMARKS	
		480	2.0616		
			TMT =	2.0616	
PRICE ADJUSTMENT(\$)				\$878.26	

400 / 402 ASPHALT CEMENT PRICE ADJUSTMENT 125% MAX					
APPLICABLE TO CONTRACTS/PROJECTS CONTAINING THE 413 SPECIFICATION, SECTION 413.5.01 ADJUSTMENTS ASPHALT PRICE ADJUSTMENT FOR BITUMINOUS TACK COAT					
http://www.dot.ga.gov/doingbusiness/Materials/Pages/asphaltcementindex.aspx					
ENTER APL		355	ENTER APM		798.75
125.00%			INCREASE ADJUSTMENT		
L.I.N. / Spec Number	MIX TYPE	HMA	JMF AC%	AC	REMARKS
402-3131	9.5 mm SP		5.00		
402-4514	19 mm SP		5.00		
			5.00		
			5.00		
			5.00		
			5.00		
			5.00		
			5.00		
			5.00		
			5.00		
			5.00		
			5.00		
			5.00		
			5.00		
			TMT =		
PRICE ADJUSTMENT(\$)					

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ASPHALT CEMENT PRICE ADJUSTMENT FOR BITUMINOUS TACK COAT(Surface Treatment 125% MAX)					
APPLICABLE TO CONTRACTS CONTAINING THE 413 SPEC. SECTION 413.5.01 ADJUSTMENTS ASPHALT PRICE ADJUSTMENT FOR BITUMINOUS TACK COAT					
http://www.dot.ga.gov/doingbusiness/Materials/Pages/asphaltcement/index.aspx					
ENTER APL <input style="width: 50px;" type="text"/>			ENTER APM <input style="width: 50px;" type="text"/>		
MISSING APL OR APM			MISSING APL OR APM		
Use this side for Asphalt Emulsion Only			Use this side for Asphalt Cement Only		
L.I.N.	TYPE	ASPHALT EMULSION (GALLONS)	L.I.N.	TYPE	TACK (GALLONS)
TMT =		<input style="width: 100px;" type="text"/>	TMT =		<input style="width: 100px;" type="text"/>
REMARKS:			REMARKS:		
MONTHLY PRICE ADJUSTMENT(\$)			MISSING APL OR APM		

ADJUSTMENT SUMMARY	
FUEL PRICE ADJUSTMENT (ENGLISH 125% MAX)	
DIESEL PRICE ADJUSTMENT(\$)	<u>\$29,565.18</u>
UNLEADED PRICE ADJUSTMENT(\$)	<u>\$12,008.74</u>
ASPHALT CEMENT PRICE ADJUSTMENT (BITUMINOUS TACK COAT 125% MAX)	<u>\$878.26</u>
400 / 402 ASPHALT CEMENT PRICE ADJUSTMENT 125% MAX	
ASPHALT CEMENT PRICE ADJUSTMENT FOR BITUMINOUS TACK COAT(Surface Treatment 125% MAX)	<u>MISSING APL OR APM</u>
REMARKS:	
TOTAL ADJUSTMENTS	\$42,452.18

DMM 1009