



**DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA**

**INTERDEPARTMENT CORRESPONDENCE**

**FILE** NH000-0051-01(025), Clarke County **OFFICE** Program Delivery  
P.I. 122850  
SR 10 Loop/ Athens Perimeter at **DATE** June 01, 2010  
CR 141/ Peter St. & Olympic Drive

**FROM** Bobby Hilliard, P.E., State Program Delivery Engineer *B.H.*

**TO** Brent Story, P.E., State Design Policy Engineer

**SUBJECT** Request for Location and Design Approval

**Description and Project Proposal:**

The proposed project will lower Peter Street/Olympic Drive and construct bridges over Peter Street/Olympic Drive for SR 10 Loop at its current vertical alignment. The proposed project will construct a compressed diamond interchange with one loop ramp in the southwest quadrant. SR 10 Loop will retain its current 4-lanes configuration as well as the 40 foot median. Construction on SR 10 Loop will begin just north of the Nellie B. Avenue overpass and end just south of the bridge over the CSX railroad. Peter Street and Olympic Drive will maintain its current 2-lane configuration with the addition of turn lanes at intersections as required. The shoulders along Peter Street and Olympic Drive will be 12' wide urban shoulders. The project calls for 4 foot bicycle lanes adjacent to the proposed travel way along Peter Street/Olympic Drive in each direction. Two traffic signals are proposed for the ramp intersections with Peter Street and Olympic Drive. Construction work on Peter Street will begin at the intersection of East Carver Drive and proceed eastward to approximately 1600 feet east of SR 10 Loop along Olympic Drive. The project is located in Clarke County and GMD's 216, 219, 220.

**Concept Approval Date:** The concept approval date July 13, 2000.

**Revised Concept Approval Date:** April 23, 2010

**Concept Update:** There are no updates to the approved concept.

**Environmental Document Type, Approval Date & any Reevaluations:** Categorical Exclusion approved on May 25, 2010

**Public Involvement:**

- Public Hearing Open House Results: Not required

- Public Information Open House
  - Held October 9, 2008 at the Fourth Street Elementary School, 715 4th Street, Athens Georgia.
  - The total number of comments received three.
  - The three comments received were in support of the project.
  - The total number of attendees twenty nine, no public officials attended.
  - No design changes have been made as a result of the comments received at the public hearings.

**Consistency with Approved Planning:**

The design description as presented herein and submitted for approval is consistent with the approved STIP.

**Recommendations:** Recommend that the location and design for the project be approved and that the attached Notice be approved for advertising.

RECOMMEND: Ben Bucken <sup>BAs</sup>  
Director of Engineering

CONCUR: Gerald M. Ross  
Chief Engineer

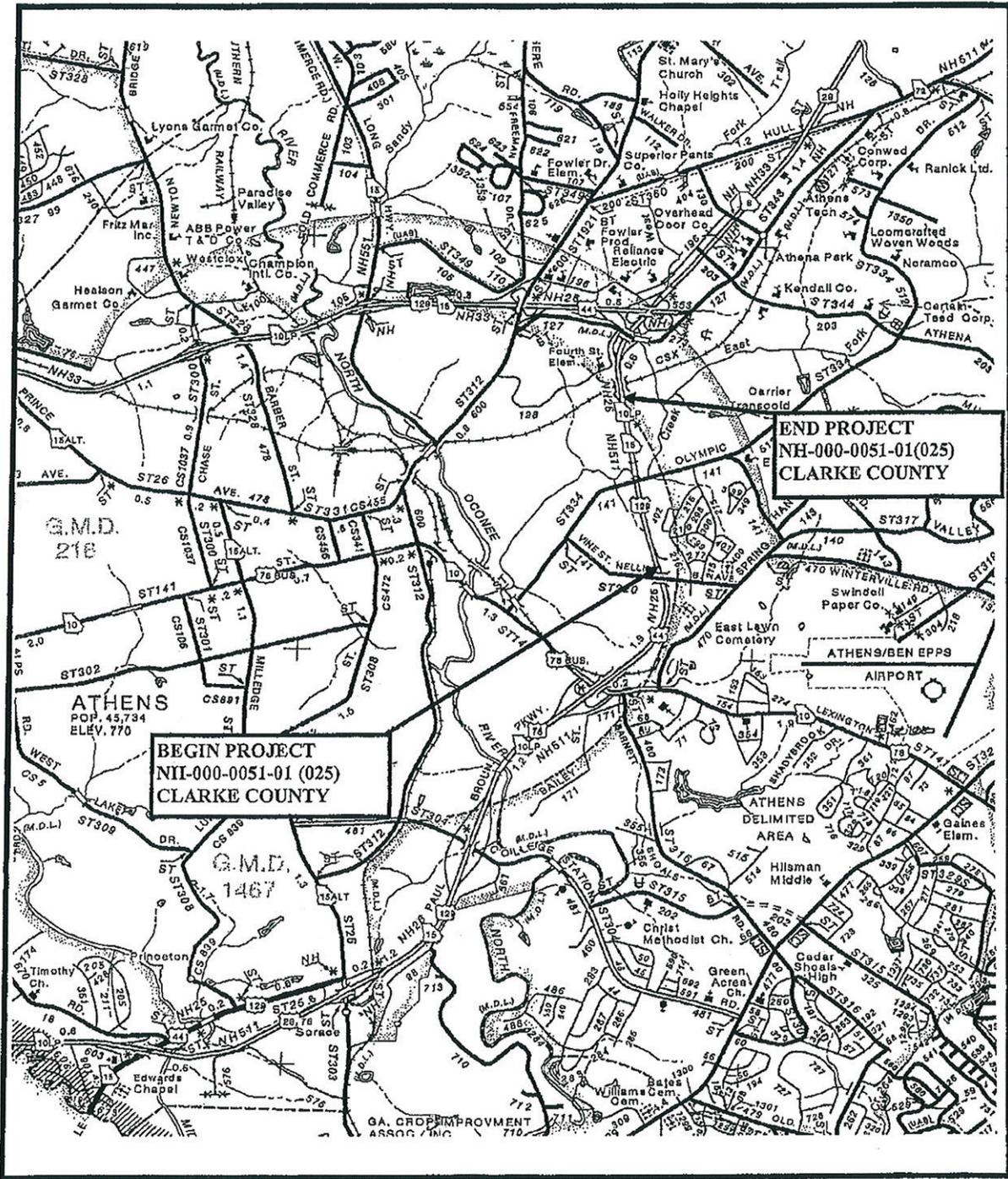
6/3/10  
Date

APPROVAL: June 3, 2010  
Date of Location and Design Approval

Attachments:

- Sketch Map
- Cost Estimate
- Notice of Location and Design Approval

**NOTICE OF LOCATION AND DESIGN APPROVAL**



**END PROJECT**  
NH-000-0051-01(025)  
CLARKE COUNTY

**BEGIN PROJECT**  
NH-000-0051-01 (025)  
CLARKE COUNTY

G.M.D.  
216

G.M.D.  
1467

ATHENS  
POP. 45,734  
ELEV. 770

GA. CROP IMPROVEMENT  
ASSOC. INC.

# NOTICE OF LOCATION AND DESIGN APPROVAL

*NH000-0051-01-(025) Clarke County  
P. I. 122850*

Notice is hereby given in compliance with Georgia Code 22-2-109 that the Georgia Department of Transportation has approved the Location and Design of this project.

The date of location approval is June 3, 2010

The proposed project will lower Peter Street/Olympic Drive and construct bridges over Peter Street/Olympic Drive for SR 10 Loop at its current vertical alignment. The proposed project will construct a compressed diamond interchange with one loop ramp in the southwest quadrant. SR 10 Loop will retain its current 4-lanes configuration as well as the 40 foot median. Construction on SR 10 Loop will begin just north of the Nellie B. Avenue overpass and end just south of the bridge over the CSX railroad. Peter Street and Olympic Drive will maintain its current 2-lane configuration with the addition of turn lanes at intersections as required. The shoulders along Peter Street and Olympic Drive will be 12' wide urban shoulders. The project calls for 4 foot bicycle lanes adjacent to the proposed travel way along Peter Street/Olympic Drive in each direction. Two traffic signals are proposed for the ramp intersections with Peter Street and Olympic Drive. Construction work on Peter Street will begin at the intersection of East Carver Drive and proceed eastward to approximately 1600 feet east of SR 10 Loop along Olympic Drive. The project is located in Clarke County and GMD's 216, 219, 220.

Drawings or maps or plats of the proposed project, as approved, are on file and are available for public inspection at the Georgia Department of Transportation:

Area Engineer  
Johnny Emmett  
jemmett@dot.ga.gov  
450 Old Hull Road  
Athens, Georgia 30601  
706-583-2655

Any interested party may obtain a copy of the drawings or maps or plats or portions thereof by paying a nominal fee and requesting in writing to:

Bobby Hilliard  
Office of program Delivery  
bhilliard@dot.ga.gov  
600 West Peachtree Street  
Atlanta, Georgia 30308  
404-631-1588

Any written request or communication in reference to this project or notice SHOULD include the Project and P. I. Numbers as noted at the top of this notice.

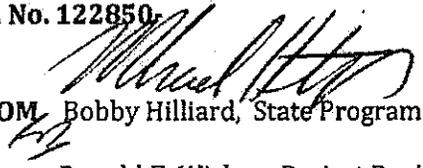
**DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA**

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**INTERDEPARTMENT CORRESPONDENCE**

**FILE PROJECT No. NH000-0051-01(025), Clarke**  
SR 10 Loop and Peter Street/ Olympic Drive  
Interchange  
**P.I. No. 122850**

**OFFICE Program Delivery**

**DATE 2/8/2010**

  
**FROM Bobby Hilliard, State Program Delivery Engineer**

**TO Ronald E. Wishon, Project Review Engineer**

**SUBJECT REVISIONS TO PROGRAMMED COSTS**

**PROJECT MANAGER: Hiral Patel**

**MNGT LET DATE 1/15/2012**

**MNGT R/W DATE 5/15/2010**

**PROGRAMMED COST (TPro W/OUT INFLATION)**

**LAST ESTIMATE UPDATE**

**CONSTRUCTION \$19,539,000.00**

**DATE 5/12/2008**

**RIGHT OF WAY \$3,056,300.00**

**DATE 7/13/2009**

**UTILITIES \$(0)**

**DATE none**

**REVISED COST ESTIMATES**

**CONSTRUCTION\* \$ 14,084,687.49**

**RIGHT OF WAY \$3,016,700.00**

**UTILITIES\*\* \$640,000**

**\* Costs contain 5% Engineering and Inspection and 0% Construction Contingencies.**

**\*\* Costs contain 0% contingency.**

**REASON FOR COST INCREASE: Annual Update**

**CONTINGENCY SUMMARY**

Construction Cost Estimate: \$11,778,188.00  
Engineering and Inspection: \$588,909.40  
Construction Contingency: \$none  
Total Fuel Adjustment \$ 903,699.68  
Total Liquid AC Adjustment \$ 813,890.41  
**Construction Total:** \$14,084,687.49  
Utility Cost Estimate: \$640,000.00  
Utility Contingency: \$none 0 %  
**Utility Total:** \$640,000

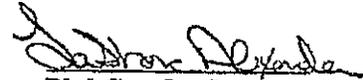
**REIMBURSABLE UTILITY COST**

Utility Owner	Reimbursable Costs
Georgia Power- Transmission	500,000.00
Georgia Power -Distribution	60,000.00
Athens-Clarke County (Sewer)	80,000.00
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

**Attachments**

c: Genetha Rice - Singleton, Assistant Director of Preconstruction

# Preliminary Right of Way Cost Estimate



**Phil Copeland**  
 Right of Way Administrator  
 By LaShone Alexander

Date: October 27, 2009  
 Project NH-051-1(25)Clarke  
 Existing/Required R/W: Varies/Varies  
 Project Term: SR 10 Loop and Peter St. / Olympic Dr Interchange  
 Project Description: SR 10 and Peter St. Interchange Improvement Project

PI Number 122850  
 No. Parcels: 8

<b>Land.</b>			
Commercial R/W	72,675sf @ \$ 7.25/sf	\$	526,900
Commercial Esmt.	2,283sf @ \$ 7.25/sf @ 50%		8,276
Residential R/W	1,721sf @ \$ 70/sf	<u>1,205</u>	\$ 536,381
<b>Improvements</b>			
	residences, mobile home, misc site improvements		520,000
<b>Relocation</b>			
	Commercial (0)		
	Residential (4)		<u>160,000</u>
<b>Damage</b>			
	Proximity		
	Consequential		
	Cost to Cure		<u>0</u>
	<b>Net Cost</b>	\$	<b>1,216,381</b>

Net Cost		\$	1,216,381
Scheduling Contingency	55 %		669,009
Adm/Court Cost	60		<u>1,131,234</u>
		\$	<b>3,016,624</b>

**Total Cost \$3,016,700**

Note: The Market Appreciation (40%) is not included in the updated Preliminary Cost Estimate



# CONSTRUCTION COST ESTIMATE

Detailed Estimate Cost Estimate Report

## Estimate Report for file "122850"

Section ALL-PRELIMINARY					
Item Number	Quantity	Units	Unit Price	Item Description	Cost
009-3000	1	Lump Sum	100000 0	Miscellaneous Construction	100000
150-1000	1	LS	1150000 0	TRAFFIC CONTROL -	1150000
153-1300	1	EA	76058 0	FIELD ENGINEERS OFFICE TP 3	76058
163-xxxx	1	Lump Sum	1200000 0	Erosion Control	1200000
201-1500	1	LS	250000 0	CLEARING & GRUBBING -	250000
205-0001	189243	CY	4 0	UNCLASS EXCAV	756972
205-0210	100000	CY	10 0	EXCAVATION - ROCK	1000000
208-0100	46751	CY	4 0	IN PLACE EMBANKMENT	187004
310-1101	58600	TN	21 0	GR AGGR BASE CRS INCL MATL	1230600
402-1811	1000	TN	105 0	RECYCLED ASPH CONC LEVELING, INCL BITUM MATL	105000
402-3113	9460	TN	70 0	RECYCLED ASPH CONC 12 5 MM SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME	662200
402-3121	10900	TN	63 0	RECYCLED ASPH CONC 25 MM SUPERPAVE, GP 1 OR 2 INCL BITUM MATL & H LIME	686700
402-3190	12250	TN	63 0	RECYCLED ASPH CONC 19 MM SUPERPAVE, GP 1 OR 2 INCL BITUM MATL & H LIME	771750
413-1000	6500	GL	1 0	BITUM TACK COAT	6500
433-1000	590	SY	153 0	REINF CONC APPROACH SLAB	90270
441-0016	281	SY	40 0	DRIVEWAY CONCRETE, 6 IN TK	11240
441-0104	1650	SY	34 0	CONC SIDEWALK, 4 IN	56100
441-0301	1	EA	2163 0	CONC SPILLWAY TP 1	2163
441-0740	150	SY	32 0	CONCRETE MEDIAN 4 IN	4800
441-0748	500	SY	52 0	CONCRETE MEDIAN 6 IN	26000
441-3999	1705	LF	20 0	CONCRETE V GUTTER	34100
441-4020	45	SY	43 0	CONC VALLEY GUTTER, 6 IN	1935
441-6022	6400	LF	19 0	CONC CURB & GUTTER, 6 IN X 30 IN TP 2	121600
500-3101	1424	CY	639 0	CLASS A CONCRETE	909936
511-1000	118550	LB	0 92	BAR REINF STEEL	109066
543-9000	13260	SF	80 0	Construction of Bridge Complete	1060800
550-1180	1260	LF	44 0	STORM DRAIN PIPE 18 IN H 1-10	55440
550-1181	339	LF	57 0	STORM DRAIN PIPE, 18 IN, H 10-15	19323
550-1240	480	LF	50 0	STORM DRAIN PIPE, 24 IN, H 1-10	24000
550-4215	1	EA	629 0	FLARED END SECTION 15 IN, STORM DRAIN	629
550-4218	3	EA	661 0	FLARED END SECTION 18 IN, STORM DRAIN	1983
550-4224	5	EA	780 0	FLARED END SECTION 24 IN, STORM DRAIN	3900
611-8040	11	EA	1744 0	ADJUST DROP INLET TO GRADE	19184
620-0100	5000	LF	30 0	TEMPORARY BARRIER, METHOD NO 1	150000
621-3020	50	LF	103 0	CONCRETE BARRIER, TYPE 20	5150
621-3021	535	LF	160 0	CONCRETE BARRIER, TYPE 21	85600
621-4020	290	LF	313 0	CONCRETE SIDE BARRIER, TYPE 2	90770
638-1001	1	LS	84023 0	STR SUPPORT FOR OVERHEAD SIGN, TP I, STA -	84023
639-4004	8	EA	7288 0	STRAIN POLE, TP IV	58304
641-1100	200	LF	48 0	GUARDRAIL, TP T	9600
641-1200	6525	LF	15 0	GUARDRAIL, TP W	97875
641-5001	10	EA	635 0	GUARDRAIL ANCHORAGE TP 1	6350
641-5012	16	EA	1775 0	GUARDRAIL ANCHORAGE TP 12	28400
647-0220	3	LS	84500 0	TRAFFIC SIGNAL INSTALLATION, TEMPORARY	253500
648-1350	2	EA	18390 0	IMPACT ATTENUATOR UNIT TYPE P -	36780
668-1100	19	EA	2840 0	CATCH BASIN GP 1	53960
668-2100	17	EA	2979 0	DROP INLET GP 1	50643
700-6910	30	AC	1066 0	PERMANENT GRASSING	31980
<b>Section Sub Total</b>					<b>\$11,778,188.00</b>

**Total Estimated Cost \$11,778,188 00**

CALL NO N/A

PROJ NO  
P I NO  
DATE

NH000-0051-01(025)
122850
10/27/2009

INDEX (TYPE)  
REG UNLEADED  
DIESEL  
LIQUID AC

DATE	INDEX
Sep-09	\$ 2 444
	\$ 2 592
	\$ 397 00

Link to Fuel and AC Index

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

**LIQUID AC ADJUSTMENTS**

$$PA = \left[ \left( \frac{APM - APL}{APL} \right) - 0.05 \right] \times TMT \times APL$$

**Asphalt**

Price Adjustment (PA)			\$ 800,590.20	\$ 800,590.20
Monthly Asphalt Cement Price month placed (APM)	Max Cap	125%	\$ 893.25	
Monthly Asphalt Cement Price month project let (APL)			\$ 397.00	
Total Monthly Tonnage of asphalt cement (TMT)			1680.5	

ASPHALT	Tons	%AC	AC ton
Leveling	1000	5.0%	50
12.5 OGFC		5.0%	0
12.5 mm	9460	5.0%	473
9.5 mm SP		5.0%	0
25 mm SP	10900	5.0%	545
19 mm SP	12250	5.0%	612.5
	<b>33610</b>		<b>1680.5</b>

**BITUMINOUS TACK COAT**

Price Adjustment (PA)			\$ 13,300.21	\$ 13,300.21
Monthly Asphalt Cement Price month placed (APM)	Max Cap	125%	\$ 893.25	
Monthly Asphalt Cement Price month project let (APL)			\$ 397.00	
Total Monthly Tonnage of asphalt cement (TMT)			27 91815599	

**Bitum Tack**

Gals	gals/ton	tons
6500	232.8234	27 918156

PROJ. NO  
 P I NO  
 DATE

NH000-0051-01(025)
122850
10/27/2009

CALL NO N/A

9/29/2009

**BITUMINOUS TACK COAT (surface treatment)**

Price Adjustment (PA)			\$	-	\$	-
Monthly Asphalt Cement Price month placed (APM)	Max Cap	125%	\$	893 25		
Monthly Asphalt Cement Price month project let (APL)			\$	397 00		
Total Monthly Tonnage of asphalt cement (TMT)				0		

Bitum Tack	SY	Gals/SY	Gals	gals/ton	tons
Single Surf Trmt		0 20	0	232 8234	0
Double Surf Trmt		0 44	0	232 8234	0
Triple Surf Trmt		0 71	0	232 8234	0

<b>TOTAL LIQUID AC ADJUSTMENT</b>					\$	<b>813,890.41</b>
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PROJ. NO.  
P I NO  
DATE

NH000-0051-01(025)
122850
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**FUEL ADJUSTMENTS - ROADWAY**

FPA = (((FPM-FPL)/FPL)- 10]xQxF)FPL

			REGULAR		TOTALS	
			UNLEADED	DIESEL		
<b>GRADED AGGREGATE BASE (Section 310)</b>						
Fuel Price Adjustment (FPA)			\$ 39,528 28	\$ 50,655 72	\$	90,183 99
Monthly Fuel Price for month work was accomplished (FPM)	Max Cap	125%	\$ 5 499	\$ 5 832		
Monthly Fuel Price for month when project was let (FPL)			\$ 2 444	\$ 2 592		
Quantity Placed (Q)	Ton	58600				
Fuel Usage Factor (F)			0 24	0 29		
<b>ASPHALT (Sections 400 and 402)</b>						
Fuel Price Adjustment (FPA)			\$ 67,069 63	\$ 290,535 60	\$	357,605 22
Monthly Fuel Price for month work was accomplished (FPM)	Max Cap	125%	\$ 5 499	\$ 5 832		
Monthly Fuel Price for month when project was let (FPL)			\$ 2 444	\$ 2 592		
Quantity Placed (Q)	Ton	33610				
Fuel Usage Factor (F)			0 71	2 90		
<b>EARTHWORK (Section 205 and 206)</b>						
Fuel Price Adjustment (FPA)			\$ 141,651 71	\$ 290,443 97	\$	432,095 68
Monthly Fuel Price for month work was accomplished (FPM)	Max Cap	125%	\$ 5 499	\$ 5 832		
Monthly Fuel Price for month when project was let (FPL)			\$ 2 444	\$ 2 592		
Quantity Placed (Q)	Cy	335994				
Fuel Usage Factor (F)			0 15	0 29		
<b>CONCRETE PAVEMENT (Section 430)</b>						
Fuel Price Adjustment (FPA)			\$ -	\$ -	\$	-
Monthly Fuel Price for month work was accomplished (FPM)	Max Cap	125%	\$ 5 499	\$ 5 832		
Monthly Fuel Price for month when project was let (FPL)			\$ 2 444	\$ 2 592		
Quantity Placed (Q)	Sy					
Fuel Usage Factor (F)			0 20	0 25		
<b>TOTAL ROADWAY FUEL ADJUSTMENTS</b>			\$ 248,249 62	\$ 631,635 28	\$	879,884 89

PROJ NO

NH000-0051-01(025)

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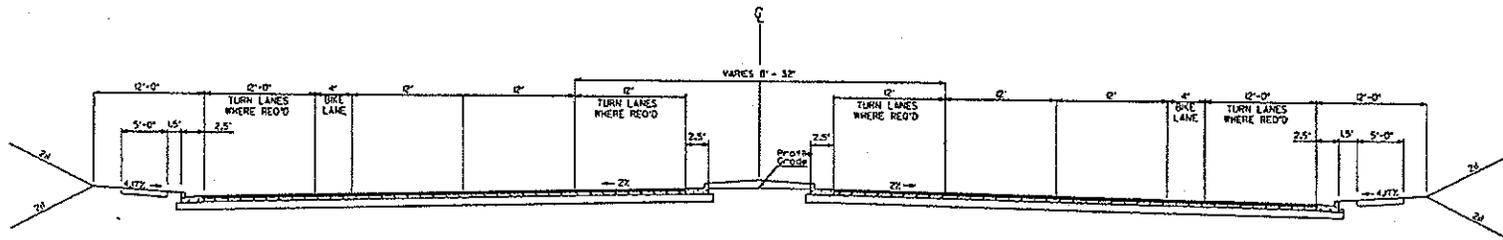
**FUEL ADJUSTMENTS - BRIDGE**

FPA = (((FPM-FPL)/FPL)- 10)x(QxF/1000))FPL

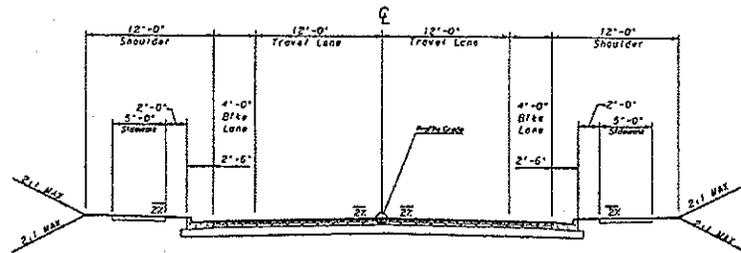
		REGULAR				TOTALS		
		UNLEADED	DIESEL					
Fuel Price Adjustment (FPA)		\$ 3,577 78	\$ 20,237 01			\$ 23,814 79		
Monthly Fuel Price for month work was accomplished (FPM)		125%	\$ 5 499			\$ 5 832		
Monthly Fuel Price for month when project was let (FPL)			\$ 2 444			\$ 2 592		
Quantity Placed (Q)		Cost	\$ 848,640 00					
Fuel Usage Factor (F)			1 5			8		
Section		Bridge 1 Cost	Bridge 2 Cost	Bridge 3 Cost	Bridge 4 Cost			
211	Bridge Excavation							
500	Superstr Conc Cl AA							
500	Class A Concrete							
500	Class AA Concrete							
500	Concrete Handrail							
500	Concrete Barrier							
501	Structural Steel							
507	Prestressed Conc Beams							
507	Prestressed Conc Beams					EST BRIDGE COST	% COST w/ADJ	
507	Prestressed Conc Beams					\$ 1,060,800 00	80%	
511	Super Reinforcement					COST	\$ 848,640 00	
511	Bar Reinf Steel							
520	Piling							
520	Piling							
524	Drilled Caisson							
547	Pile Encasement							
547	Pile Encasement							
		\$ -	\$ -	\$ -	\$ -			
<b>TOTAL BRIDGE FUEL ADJUSTMENTS</b>						\$ 3,577 78	\$ 20,237 01	\$ 23,814.79
<b>TOTAL FUEL ADJUSTMENT (ROADWAY AND BRIDGE)</b>						\$ 251,827 40	\$ 651,872 28	\$ 903,699 68

Use when bridge items haven't been established Assumes 80% of the estimated bridge cost will qualify for fuel adjustments

# TYPICAL SECTION - PETER ST./OLYMPIC DRIVE



ORIGINAL CONCEPT



TANGENT SECTION

REVISED CONCEPT