ORIGINAL TO GENERAL FILES

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

OFFICE OF DESIGN POLICY & SUPPORT
INTERDEPARTMENTAL CORRESPONDENCE

FILE P.I. #122090-
EDS00-0441-00(028)
Rabun County
GDOT District 1 - Gainesville
SR15/US441 Reconstruction from North
CL/Clayton to North Carolina Line

OFFICE Design Policy & Support

DATE 6/28/2016

FROM for Brent Story, State Design Policy Engineer

TO SEE DISTRIBUTION

SUBJECT **APPROVED LOCATION & DESIGN REPORT**

Attached is the approved Location and Design Report with Notice of Location & Design Approval for the above subject project.

Attachment

DISTRIBUTION:

Hiral Patel, Director of Engineering
Joe Carpenter, Director of P3/Program Delivery
Genetha Rice-Singleton, Assistant Director of P3/Program Delivery
Albert Shelby, State Program Delivery Engineer
Darryl VanMeter, State Innovative Delivery Engineer
Bobby Hilliard, Program Control Administrator
Cindy VanDyke, State Transportation Planning Administrator
Eric Duff, State Environmental Administrator
Bill DuVall, State Bridge Engineer
Andrew Heath, State Traffic Engineer
Angela Robinson, Financial Management Administrator
Lisa Myers, State Project Review Engineer
Ed David Adams, State Safety Program Manager
Richard Cobb, Location Bureau Chief
Brent Cook, District Engineer
Brandon Kirby, District Preconstruction Engineer
Kim Coley, District Planning & Programming Engineer
Matt Needham, Area Engineer - D1, A4
Charles A. Robinson, Project Manager
BOARD MEMBER - 9th Congressional District

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTEROFFICE CORRESPONDENCE
LOCATION AND DESIGN REPORT

FILE P.I. Number 122090
EDS00-0441-00(028)
Rabun
SR 15/US 441 FM North CL/Clayton to North Carolina Line

OFFICE Program Delivery

DATE 5/2/2016

FROM Albert V. Shelby III, State Program Delivery Engineer Albert Shelby
Attn: Charles A. Robinson, Project Manager

TO Brent A. Story, P.E., State Design Policy Engineer
Attn: Dave Peters, P.E., State Conceptual Design Group Manager

SUBJECT **Request for Location and Design Approval**

Description and Project Proposal:

This project proposes to widen SR 15/US 441 to four lanes with a raised median throughout the project corridor in Rabun County. The project begins at mile post 12.3 at the northern city limit of Clayton. It continues northward along SR 15/US 441 through Mountain City and the City of Dillard. The project would end 800 feet beyond the state line in North Carolina. The total length of the project is approximately 7.4 miles. The project design speed is 45 mph. ~~A multi-use path including pedestrian and~~ bicyclist accommodations will also be provided throughout the project corridor.

Proposed right of way for the rural SR 15/US 441 typical sections would vary between 150 feet and 450 feet. The proposed right of way for the urban SR 15/US 441 typical sections would vary between 130 feet and 428 feet, except for within the City of Dillard, where the proposed right of way would vary between 82 feet and 150 feet. The urban typical sections propose curb and gutter. Side road improvements would have proposed right of way varying between 100 feet and 150 feet.

Concept Approval Date: The original concept report for the project was approved February 4, 1992. Concept Revisions were completed and approved in August 16, 2004, January 2, 2007 and July 30, 2010.

Concept Update: N/A

Environmental Document:
Document Type: EA/FONSI Approval Date:

Temporary State Route Needed: ☒ No ☐ Yes ☐ Undetermined

Public Involvement:
Public Hearing Open House (PHOH) Summary:

A PHOH was held March 22, 2016 at Rabun Gap-Nacoochee School, 161 Nacoochee Drive, Rabun Gap, Georgia 30568. At total of 217 people attended the meeting with a total of 79 comments received and was summarized as follows:

- 7 respondents were opposed to the project
- 10 respondents were in support of the project
- 12 respondents were uncommitted
- 50 respondents were gave conditional support to the project

The following major concerns were raised in the comments.

- Additional traffic signals are needed at certain intersections.
- Modifications were requested for access points to businesses.
- The raised median should be removed or have a reduced width.
- Less right of way should be taken.
- The distances between median breaks are too large.
- Negative impacts to the natural environment.

Public Information Open House (PIOH) No.1 Summary:
A PIOH was held April 19, 2005 at Rabun Gap-Nacoochee School, 161 Nacoochee Drive, Rabun Gap, Georgia 30568. At total of 335 people attended the meeting with a total of 138 comments received and were summarized as follows:

- 21 respondents were opposed to the project
- 42 respondents were in support of the project
- 17 respondents were uncommitted
- 58 respondents were gave conditional support to the project

The following major concerns were raised in the comments.

- Every intersection involving EMS, Fire Department, Schools, Textile Industries, and businesses should have a median.
- Traffic lights are needed along the project corridor at various locations: intersection of Franklin Street, Betty's Creek Road, John Beck Dockins Road, Black Rock Mountain Road in Mountain City, and Kelly's Creek Road.
- Need additional median breaks at northern sections of Carolina Street.
- Would like to have turning lane instead of a median through Mountain City.
- Need some form of pedestrian safety for individuals walking into Dillard.
- Concrete median would be detrimental to businesses.
- Need turning lanes for northbound access.
- Several roads along the project corridor need to be aligned for increased safety.

Public Information Open House (PIOH) No. 2 Summary:
A PIOH was held August 20, 2009 at Rabun Gap-Nacoochee School, 161 Nacoochee Drive, Rabun Gap, Georgia 30568. At total of 250 people attended the meeting with a total of 71 comments received and were summarized as follows:

- 9 respondents were opposed to the project
- 32 respondents were in support of the project
- 4 respondents were uncommitted
- 26 respondents were gave conditional support to the project

The following major concerns were raised in the comments.

- Responders in favor of the project expressed the need for the improvements to be completed soon.
- Supporters and those conditionally supportive requested additional signals at certain intersections as well as some modifications to access points or driveways.

- Several responders expressed concern about blasting during construction.
- Responders uncommitted to the project expressed dissatisfaction with the concrete median and either requested a grassed median or a 5-lane typical section.
- Responders opposed to the project expressed concerns about the median, the amount of property impacts, and negative effects to businesses located along the corridor.

Consistency with Approved Planning: The design description as presented herein and submitted for approval is consistent with the approved Concept Report.

Recommendations: The Office of Project Delivery recommends that the location and design for the project be approved and that the attached Notice be approved for advertising.

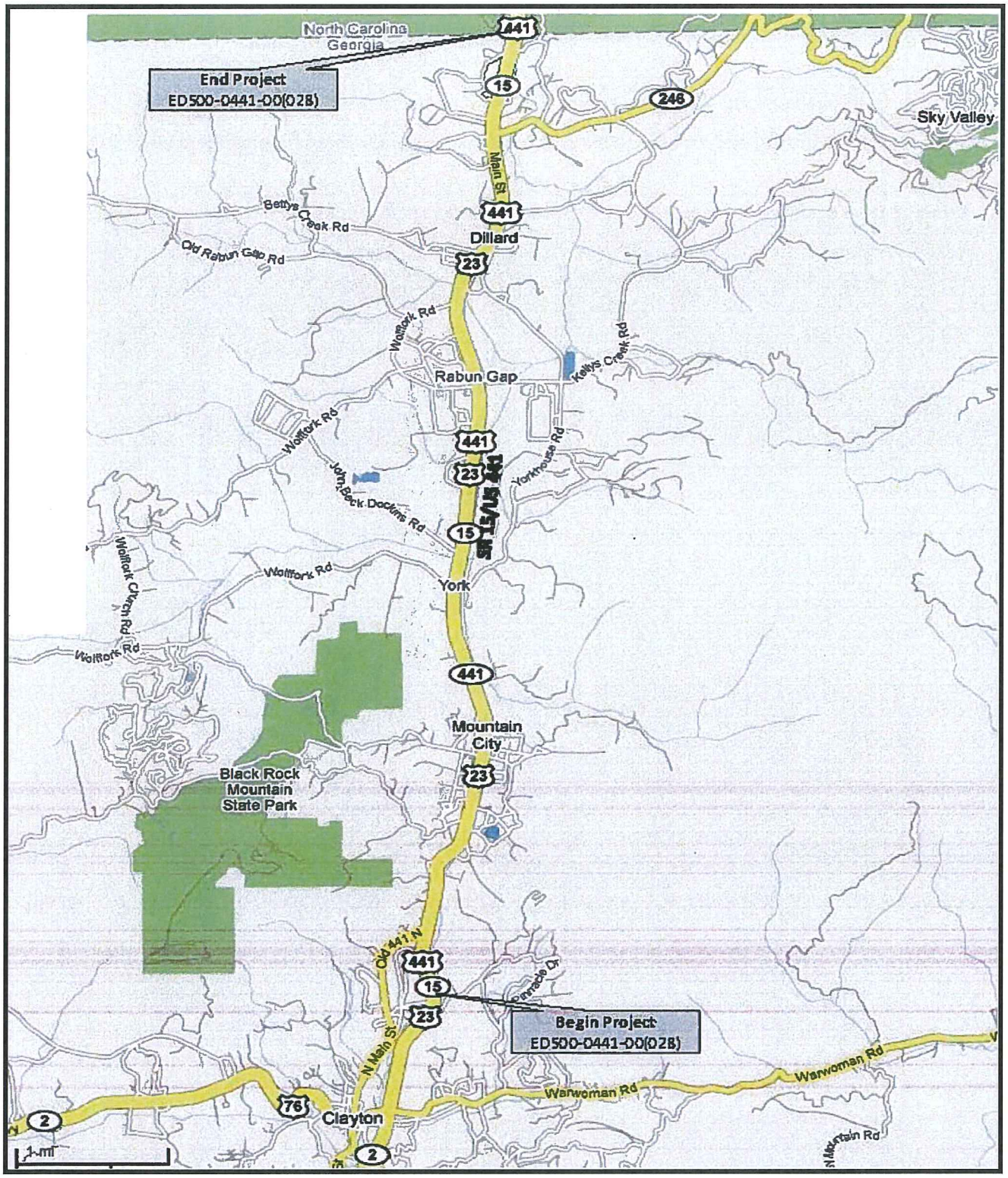
Concur: Hiral Patel
GDOT Director of Engineering

Approve: Margaret B. Pinkle 5/12/16
GDOT Chief Engineer Date

DATE OF LOCATION AND DESIGN APPROVAL: June 28, 2016

Attachments:
- Sketch Map
- Construction Cost Estimate
- Notice of Location and Design Approval

Project Location Sketch:



Widening and Reconstruction of SR 15/US 441
P.I. No. 122090
Rabun County

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

FILE P.I. No. **122090-**

OFFICE Program Delivery

PROJECT DESCRIPTION

SR 15/US 441 FM NORTH CL/CLAYTON TO NORTH CAROLINA LINE

DATE November 2, 2015

From: Albert V. Shelby, III, State Program Delivery Engineer

To: Lisa L. Myers, State Project Review Engineer

Subject: REVISIONS TO PROGRAMMED COSTS

PROJECT MANAGER Charles A. Robinson

MGMT LET DATE 6/15/2018

MGMT ROW DATE 3/15/2016

PROGRAMMED COSTS (TPro W/OUT INFLATION)			**LAST ESTIMATE UPDATE**	
CONSTRUCTION	$	39,406,905.90	DATE	10/212014
RIGHT OF WAY	$	21,080,000.00	DATE	10/21/2014
UTILITIES	$	1,574,371.00	DATE	10/21/2014

REVISED COST ESTIMATES

CONSTRUCTION*	$	38,495,629.73
RIGHT OF WAY	$	28,700,000.00
UTILITIES	$	1,752,900.00

*Cost Contains 7 % Contingency

REASONS FOR COST INCREASE AND CONTINGENCY JUSTIFICATION:

The construction cost did not increase. A 7 % contingency factor was used because the project is in the preliminary plans phase, and the preliminary field plan review (PFPR)meeting has been held. The right of way cost (ROW) estimate increased due to an increase in ROW parcel count.The utility cost estimates increased slightly due to updated cost estimates with more accurate preliminary plans.

CONTINGENCY SUMMARY

A.	CONSTRUCTION COST ESTIMATE:	$ 32,422,943.91	Base Estimate From CES	
B.	ENGINEERING AND INSPECTION (E & I):	$ 1,621,147.20	Base Estimate (A) x	5 %
C.	CONTINGENCY:	$ 2,383,086.38	Base Estimate (A) + E & I (B) x See % Table in "Risk Based Cost Estimation" Memo	7 %
D.	TOTAL LIQUID AC ADJUSTMENT:	$ 2,068,452.25	Total From Liquid AC Spreadsheet	
E.	CONSTRUCTION TOTAL:	$ **38,495,629.73**	(A + B + C + D = E)	

REIMBURSABLE UTILTY COSTS

UTILITY OWNER	REIMBURSABLE COST
Windstream Telephone	$300,000
Georgia Power-Tranmission	$396,900
Georgia Power-Distribution	$1,056,000
TOTAL	**$ 1,752,900.00**

ATTACHMENTS:

Detailed Cost Estimate Printout From TRAQS
Liquid AC Adjustment Spreadsheet

DETAILED COST ESTIMATE

Georgia Department of Transportation

Job: 122090

JOB NUMBER *122090_* **FED/STATE PROJECT NUMBER**

SPEC YEAR: *01*

DESCRIPTION: *US 441/SR 15 IMPROVEMENTS*

FROM NORTH OF CLAYTON TO NC STATE LINE

ITEMS FOR JOB 122090

0010 - ROADWAY ITEMS

Line Number	ITEM	QUANTITY	UNITS	PRICE	DESCRIPTION	AMOUNT
0005	150-1000	1.000	LS	$500,000.00000	TRAFFIC CONTROL - 122090-	$500,000.00
0015	153-1300	1.000	EA	$80,937.45071	FIELD ENGINEERS OFFICE TP 3	$80,937.45
0016	201-1500	1.000	LS	$1,500,000.00000	CLEARING & GRUBBING - 122090-	$1,500,000.00
0017	205-0001	256800.000	CY	$6.57257	UNCLASS EXCAV	$1,687,835.98
0018	206-0002	99900.000	CY	$4.55480	BORROW EXCAV, INCL MATL	$455,024.52
0019	207-0203	1210.000	CY	$42.21939	FOUND BKFILL MATL, TP II	$51,085.46
0025	310-1101	131100.000	TN	$15.03866	GR AGGR BASE CRS, INCL MATL	$1,971,568.33
0030	318-3000	1200.000	TN	$19.65652	AGGR SURF CRS	$23,587.82
0039	402-1802	200.000	TN	$116.82376	RECYL AC PATCHING, INCL BM&HL	$23,364.75
0044	402-1812	78900.000	TN	$64.69533	RECYL AC LEVELING,INC BM&HL	$5,104,461.54
0045	402-3121	26000.000	TN	$64.53058	RECYL AC 25MM SP,GP1/2,BM&HL	$1,677,795.08
0050	402-3130	30900.000	TN	$61.07773	RECYL AC 12.5MM SP,GP2,BM&HL	$1,887,301.86
0060	402-3190	21500.000	TN	$63.48859	RECYL AC 19 MM SP,GP 1 OR 2 ,INC BM&HL	$1,365,004.69
0065	413-1000	39800.000	GL	$3.00000	BITUM TACK COAT	$119,400.00
0070	432-5010	1000.000	SY	$7.34926	MILL ASPH CONC PVMT,VARB DEPTH	$7,349.26
0074	433-1000	950.000	SY	$147.30849	REINF CONC APPROACH SLAB	$139,943.07
0075	441-0016	130.000	SY	$35.10201	DRIVEWAY CONCRETE, 6 IN TK	$4,563.26
0080	441-0018	880.000	SY	$42.83538	DRIVEWAY CONCRETE, 8 IN TK	$37,695.13
0084	441-0740	6500.000	SY	$32.96459	CONC MEDIAN, 4 IN	$214,269.84
0090	441-4020	750.000	SY	$33.54516	CONC VALLEY GUTTER, 6 IN	$25,158.87
0095	441-4030	2600.000	SY	$43.83822	CONC VALLEY GUTTER, 8 IN	$113,979.37
0096	441-5002	6200.000	LF	$9.98473	CONC HEADER CURB, 6", TP 2	$61,905.33
0100	441-6222	23900.000	LF	$11.82744	CONC CURB & GUTTER/ 8"X30"TP2	$282,675.82
0103	441-6740	72500.000	LF	$11.86310	CONC CURB & GUTTER/ 8"X30" TP7	$860,074.75
0104	444-1000	450.000	LF	$3.90969	SAWED JTS IN EXIST PVMTS - PCC	$1,759.36
0105	446-1100	50000.000	LF	$2.06858	PVMT REF FAB STRIPS, TP2,18 INCH WIDTH	$103,429.00
0106	456-2015	16.000	GLM	$444.75921	INDENT. RUMB. STRIPS - GRND-IN-PL (SKIP)	$7,116.15
0109	500-3101	800.000	CY	$691.59356	CLASS A CONCRETE	$553,274.85
0110	500-3800	31.000	CY	$923.02659	CL A CONC, INCL REINF STEEL	$28,613.82
0144	511-1000	80000.000	LB	$0.95233	BAR REINF STEEL	$76,186.40
0145	550-1180	16200.000	LF	$29.79436	STM DR PIPE 18",H 1-10	$482,668.63
0160	550-1240	470.000	LF	$42.33777	STM DR PIPE 24",H 1-10	$19,898.75
0175	550-1300	290.000	LF	$53.61525	STM DR PIPE 30",H 1-10	$15,548.42
0176	550-1480	74.000	LF	$102.70419	STM DR PIPE 48",H 1-10	$7,600.11
0177	550-1540	43.000	LF	$135.00000	STM DR PIPE 54",H 1-10	$5,805.00
0178	550-1600	200.000	LF	$150.00000	STM DR PIPE 60",H 1-10	$30,000.00
0204	550-1720	8.000	LF	$150.00000	STM DR PIPE 72",H 1-10	$1,200.00
0205	550-2180	2100.000	LF	$26.60115	SIDE DR PIPE 18",H 1-10	$55,862.42
0210	550-2240	360.000	LF	$31.68034	SIDE DR PIPE 24",H 1-10	$11,404.92
0211	550-2360	110.000	LF	$63.00000	SIDE DR PIPE 36",H 1-10	$6,930.00
0214	550-2720	150.000	LF	$150.00000	SIDE DR PIPE 72",H 1-10	$22,500.00

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DETAILED COST ESTIMATE

Georgia Department of Transportation

Job: 122090

Line Number	ITEM	QUANTITY	UNITS	PRICE	DESCRIPTION	AMOUNT
0235	550-3418	82.000	EA	$412.10802	SAFETY END SECTION 18",SD,4:1	$33,792.86
0240	550-3424	10.000	EA	$645.83718	SAFETY END SECTION 24",SD,4:1	$6,458.37
0241	550-3436	4.000	EA	$850.00000	SAFETY END SECTION 36",SD,4:1	$3,400.00
0242	550-3448	3.000	EA	$950.00000	SAFETY END SECTION 48",SD,4:1	$2,850.00
0285	550-4218	35.000	EA	$616.22175	FLARED END SECT 18 IN, ST DR	$21,567.76
0290	550-4224	7.000	EA	$658.50699	FLARED END SECT 24 IN, ST DR	$4,609.55
0295	550-4230	8.000	EA	$728.12024	FLARED END SECT 30 IN, ST DR	$5,824.96
0305	573-2006	5000.000	LF	$16.46055	UNDDR PIPE INCL DRAIN AGGR 6"	$82,302.75
0306	576-1018	1000.000	LF	$35.23804	SLOPE DRAIN PIPE, 18 IN	$35,238.04
0307	603-2182	150.000	SY	$45.12148	STN DUMPED RIP RAP, TP 3, 24"	$6,768.22
0308	603-7000	150.000	SY	$3.66998	PLASTIC FILTER FABRIC	$550.50
0309	632-0003	4.000	EA	$5,966.38025	CHANGEABLE MESS SIGN,PORT,TP 3	$23,865.52
0310	634-1200	200.000	EA	$109.65940	RIGHT OF WAY MARKERS	$21,931.88
0311	641-1100	170.000	LF	$56.23079	GUARDRAIL, TP T	$9,559.23
0312	641-1200	15800.000	LF	$16.10738	GUARDRAIL, TP W	$254,496.60
0313	641-5001	25.000	EA	$757.59278	GUARDRAIL ANCHORAGE, TP 1	$18,939.82
0314	641-5012	23.000	EA	$1,998.79757	GUARDRAIL ANCHORAGE, TP 12	$45,972.34
0315	643-8200	36000.000	LF	$1.03517	BARRIER FENCE (ORANGE), 4 FT	$37,266.12
0318	668-1100	130.000	EA	$2,147.90528	CATCH BASIN, GP 1	$279,227.69
0319	668-1110	80.000	LF	$174.16994	CATCH BASIN, GP 1, ADDL DEPTH	$13,933.60
0320	668-1200	2.000	EA	$2,729.40361	CATCH BASIN, GP 2	$5,458.81
0325	668-1210	10.000	LF	$265.18516	CATCH BASIN, GP 2, ADDL DEPTH	$2,651.85
0330	668-2100	22.000	EA	$1,865.09595	DROP INLET, GP 1	$41,032.11
0335	668-2110	20.000	LF	$187.79467	DROP INLET, GP 1, ADDL DEPTH	$3,755.89
0340	668-2200	1.000	EA	$2,477.48603	DROP INLET, GP 2	$2,477.49
0345	668-2210	5.000	LF	$274.75093	DROP INLET, GP 2, ADDL DEPTH	$1,373.75
0346	668-4300	20.000	EA	$1,681.45184	STORM SEW MANHOLE, TP 1	$33,629.04
0347	668-4311	10.000	LF	$164.06210	ST SEW MANHOLE,TP 1,A DEP,CL 1	$1,640.62
0348	668-4400	6.000	EA	$2,634.86439	STORM SEW MANHOLE, TP 2	$15,809.19
0349	668-4411	20.000	LF	$268.00000	ST SEW MANHOLE,TP 2,A DEP,CL 1	$5,360.00
					SUBTOTAL FOR ROADWAY ITEMS:	**$20,646,524.57**

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DETAILED COST ESTIMATE

Georgia Department of Transportation

Job: 122090

0030 - SIGNING AND MARKING ITEMS

Line Number	ITEM	QUANTITY	UNITS	PRICE	DESCRIPTION	AMOUNT
0360	636-1020	800.000	SF	$13.16200	HWY SGN,TP1MAT,REFL SH TP3	$10,529.60
0364	636-1029	140.000	SF	$18.72622	HWY SGN,TP2 MATL,REFL SH TP 3	$2,621.67
0365	636-1033	1930.000	SF	$16.16137	HWY SIGNS, TP1MAT,REFL SH TP 9	$31,191.44
0375	636-2070	3620.000	LF	$6.78211	GALV STEEL POSTS, TP 7	$24,551.24
0376	636-2080	950.000	LF	$9.35762	GALV STEEL POSTS, TP 8	$8,889.74
0377	636-2090	60.000	LF	$6.38847	GALV STEEL POSTS, TP 9	$383.31
0379	636-3010	36.000	EA	$509.80939	GROUND-MOUNTED BREAKAWAY SIGN SUPPORT	$18,353.14
0389	636-5100	14.000	EA	$165.66757	MILEPOST SIGNS	$2,319.35
0390	653-0120	178.000	EA	$78.50075	THERM PVMT MARK, ARROW, TP 2	$13,973.13
0410	653-0170	32.000	EA	$96.87160	THERM PVMT MARK, ARROW, TP 7	$3,099.89
0430	653-1704	810.000	LF	$5.51679	THERM SOLID TRAF STRIPE,24",WH	$4,468.60
0435	653-1804	10600.000	LF	$2.05870	THERM SOLID TRAF STRIPE, 8",WH	$21,822.22
0436	653-2501	22.000	LM	$1,672.54553	THERMO SOLID TRAF ST, 5 IN, WH	$36,796.00
0437	653-2502	18.000	LM	$1,639.01755	THERMO SOLID TRAF ST, 5 IN YE	$29,502.32
0438	653-4501	18.000	GLM	$1,052.93126	THERMO SKIP TRAF ST, 5 IN, WHI	$18,952.76
0450	653-6004	3800.000	SY	$3.54635	THERM TRAF STRIPING, WHITE	$13,476.13
0455	653-6006	2800.000	SY	$3.69862	THERM TRAF STRIPING, YELLOW	$10,356.14
0456	654-1001	1000.000	EA	$3.65253	RAISED PVMT MARKERS TP 1	$3,652.53
0457	654-1003	1000.000	EA	$4.85290	RAISED PVMT MARKERS TP 3	$4,852.90
0458	657-1085	760.000	LF	$7.07854	PRF PL SD PVT MKG,8",B/W,TP PB	$5,379.69
0459	657-3085	800.000	GLF	$3.22047	PRF PL SK PVMT MKG,8",B/W,TPPB	$2,576.38
0464	657-6085	700.000	LF	$6.78469	PRF PL SD PVMT MKG,8",B/Y,TPPB	$4,749.28
					SUBTOTAL FOR SIGNING AND MARKING ITEMS:	**$272,497.46**

0040 - SIGNALS ITEMS

Line Number	ITEM	QUANTITY	UNITS	PRICE	DESCRIPTION	AMOUNT
0465	639-3004	8.000	EA	$11,654.54672	STEEL STRAIN POLE, TP IV	$93,236.37
0469	647-1000	1.000	LS	$44,307.00000	TRAF SIGNAL INSTALLATION NO - 122090-	$44,307.00
0470	647-1000	1.000	LS	$44,307.00000	TRAF SIGNAL INSTALLATION NO - 122090-	$44,307.00
					SUBTOTAL FOR SIGNALS ITEMS:	**$181,850.37**

0050 - BRIDGES AND WALLS

Line Number	ITEM	QUANTITY	UNITS	PRICE	DESCRIPTION	AMOUNT
0485	540-1102	1.000	LS	$200,000.00000	REM OF EX BR, BR NO - BETTY CREEK 241-0016-0	$200,000.00
0490	543-9000	1.000	LS	$170,775.00000	CONSTR OF BRIDGE COMPLETE - LITTLE TENNESSEE 241-0015-0	$170,775.00
0495	543-9000	1.000	LS	$1,314,563.00000	CONSTR OF BRIDGE COMPLETE - BETTY CREEK 241-0016-0	$1,314,563.00
0500	610-9006	1.000	LS	$12,224.00000	REM PORTIONS WINGWALLS & PARAPETS,STA - 122090-	$12,224.00
0501	621-4022	2150.000	LF	$493.14304	CONCRETE SIDE BARRIER, TY 2B	$1,060,257.54
0502	621-4023	500.000	LF	$670.00769	CONCRETE SIDE BARRIER, TY 2C	$335,003.85
0504	621-4063	850.000	LF	$739.63000	CONCRETE SIDE BARRIER, TY 6C	$628,685.50
0505	627-1000	32700.000	SF	$42.00000	MSE WALL FACE, 0 - 10 FT HT, WALL NO - 122090-	$1,373,400.00
0510	627-1010	29800.000	SF	$45.00000	MSE WALL FACE, 10 - 20 FT HT, WALL NO - 122090-	$1,341,000.00
0515	627-1020	77500.000	SF	$49.00000	MSE WALL FACE, 20 - 30 FT HT, WALL NO - 122090-	$3,797,500.00
					SUBTOTAL FOR BRIDGES AND WALLS:	**$10,233,408.89**

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DETAILED COST ESTIMATE

Georgia Department of Transportation

Job: 122090

0060 - TEMPORARY EROSION CONTROL

Line Number	ITEM	QUANTITY	UNITS	PRICE	DESCRIPTION	AMOUNT
0535	163-0232	40.000	AC	$242.48061	TEMPORARY GRASSING	$9,699.22
0540	163-0240	1200.000	TN	$153.99440	MULCH	$184,793.28
0545	163-0300	10.000	EA	$1,300.92100	CONSTRUCTION EXIT	$13,009.21
0549	163-0501	15.000	EA	$472.32316	CONSTR AND REMOVE SILT CONTROL GATE,TP 1	$7,084.85
0550	163-0503	20.000	EA	$382.22412	CONSTR AND REMOVE SILT CONTROL GATE,TP 3	$7,644.48
0555	163-0520	6500.000	LF	$12.50617	CONSTR AND REMOVE TEMP PIPE SLOPE DRAIN	$81,290.11
0559	163-0527	900.000	EA	$268.00032	CNST/REM RIP RAP CKDM,STN P RIPRAP/SN BG	$241,200.29
0564	163-0550	180.000	EA	$122.25538	CONS & REM INLET SEDIMENT TRAP	$22,005.97
0565	165-0010	22500.000	LF	$0.41951	MAINT OF TEMP SILT FENCE, TP A	$9,438.98
0570	165-0030	20000.000	LF	$0.47237	MAINT OF TEMP SILT FENCE, TP C	$9,447.40
0574	165-0041	450.000	LF	$0.91697	MAINT OF CHECK DAMS - ALL TYPES	$412.64
0575	165-0085	15.000	EA	$138.38515	MAINT OF SILT CONTROL GATE, TP 1	$2,075.78
0580	165-0087	20.000	EA	$64.98186	MAINT OF SILT CONTROL GATE, TP 3	$1,299.64
0585	165-0101	10.000	EA	$658.87499	MAINT OF CONST EXIT	$6,588.75
0590	165-0105	180.000	EA	$29.89697	MAINT OF INLET SEDIMENT TRAP	$5,381.45
0595	167-1000	4.000	EA	$202.17220	WATER QUALITY MONITORING AND SAMPLING	$808.69
0600	167-1500	24.000	MO	$521.56101	WATER QUALITY INSPECTIONS	$12,517.46
0604	171-0010	45000.000	LF	$1.56080	TEMPORARY SILT FENCE, TYPE A	$70,236.00
0605	171-0030	40000.000	LF	$2.50449	TEMPORARY SILT FENCE, TYPE C	$100,179.60
					SUBTOTAL FOR TEMPORARY EROSION CONTROL:	**$785,113.80**

0070 - PERMANENT EROSION CONTROL

Line Number	ITEM	QUANTITY	UNITS	PRICE	DESCRIPTION	AMOUNT
0619	441-0204	3000.000	SY	$28.44096	PLAIN CONC DITCH PAVING, 4 IN	$85,322.88
0620	700-6910	80.000	AC	$622.14975	PERMANENT GRASSING	$49,771.98
0625	700-7000	80.000	TN	$97.89087	AGRICULTURAL LIME	$7,831.27
0630	700-8000	48.000	TN	$548.55147	FERTILIZER MIXED GRADE	$26,330.47
0635	700-8100	4000.000	LB	$1.53758	FERTILIZER NITROGEN CONTENT	$6,150.32
0649	711-0100	20000.000	SY	$3.40000	TURF REINFORCING MATTING, TP 1	$68,000.00
0650	716-2000	70000.000	SY	$0.85917	EROSION CONTROL MATS, SLOPES	$60,141.90
					SUBTOTAL FOR PERMANENT EROSION CONTROL:	**$303,548.82**

TOTALS FOR JOB 122090

ITEMS COST:	**$32,422,943.91**
COST GROUP COST:	**$0.00**
ESTIMATED COST:	**$32,422,943.91**
CONTINGENCY PERCENT:	**0.00**
ENGINEERING AND INSPECTION:	**0.00**
ESTIMATED COST WITH CONTINGENCY AND E&I:	**$32,422,943.91**

CONFIDENTIALITY NOTICE: This document may contain confidential and/or privileged information. Any unauthorized duplication, disclosure, distribution/ retransmission or taking of any action in reliance upon the material in this document is strictly forbidden.

SR 11/US 129 FROM CR 304 NORTH TO CR 236

PROJ. NO.	EDS00-0441-00(028)	CALL NO.	7/22/2014
P.I. NO.	122090-		
DATE	10/31/2015		

INDEX (TYPE)	DATE	INDEX
REG. UNLEADED	Oct-15	$ 2.155
DIESEL		$ 2.485
LIQUID AC		$ 429.00

Link to Fuel and AC Index:
http://www.dot.ga.gov/doingbusiness/Materials/Pages/asphaltcementindex.aspx

LIQUID AC ADJUSTMENTS

PA=[((APM-APL)/APL)]xTMTxAPL

Asphalt

Price Adjustment (PA)				**2024451**	**$ 2,024,451.00**
Monthly Asphalt Cement Price month placed (APM)	Max. Cap	60%	$	686.40	
Monthly Asphalt Cement Price month project let (APL)			$	429.00	
Total Monthly Tonnage of asphalt cement (TMT)				7865	

ASPHALT	Tons	%AC	AC ton
Leveling	78900	5.0%	3945
12.5 OGFC	0	5.0%	0
12.5 mm	30900	5.0%	1545
9.5 mm SP		5.0%	0
25 mm SP	26000	5.0%	1300
19 mm SP	21500	5.0%	1075
	157300		**7865**

BITUMINOUS TACK COAT

Price Adjustment (PA)			$	**44,001.25**	**$ 44,001.25**
Monthly Asphalt Cement Price month placed (APM)	Max. Cap	60%	$	686.40	
Monthly Asphalt Cement Price month project let (APL)			$	429.00	
Total Monthly Tonnage of asphalt cement (TMT)				170.9450167	

Bitum Tack Gals	gals/ton	tons
39800	232.8234	170.945017

BITUMINOUS TACK COAT (surface treatment)

Price Adjustment (PA)				**0**	**$ -**
Monthly Asphalt Cement Price month placed (APM)	Max. Cap	60%	$	686.40	
Monthly Asphalt Cement Price month project let (APL)			$	429.00	
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
					0

TOTAL LIQUID AC ADJUSTMENT **$ 2,068,452.25**

GEORGIA DEPARTMENT OF TRANSPORTATION
DETAILED ROW COST ESTIMATE SUMMARY

Date (MM/YYYY): October-15 Project: EDS00-0041-00(028)
Revised: County: Rabun
PI: 122090
Description: US441/SR15 Improvements from North of Clayton to NC State Line
Parcels: 187 R/W Plan Date: Oct-15

CONTRACT

Land and Improvements	$22,082,554.92
Valuation Services	$1,389,093.75
Legal Services	$1,214,400.00
Relocation	$993,000.00
Demolition	$1,027,000.00
TOTAL CONTRACT	**$26,706,048.67**

INHOUSE

TOTAL INHOUSE	**$1,988,750.00**
TOTAL ESTIMATED COSTS	$28,694,798.67
TOTAL ESTIMATED COSTS (ROUNDED)	***$28,700,000.00***

Preparation Credits	Hours	Signature
JONATHON DELLS	80	

Kevin D York CG#: 261379 10-22-15
CG#:

Attachment(s): **Project Location Map; Subject/Comp Location Map; Comparable Sales Data**

DEPARTMENT OF TRANSPORTATION

INTERDEPARTMENT CORRESPONDENCE

FILE EDS00-0441-00(028), Rabun
PI No. 122090-
US 441 / SR 15/ North Clayton to North Carolina Line

OFFICE GAINESVILLE

FROM Robby Oliver, Distr. Utilities Eng.

DATE November 2, 2015

TO Albert Shelby, P.E., State Program Delivery Engineer
ATTEN Charles Robinson, Project Manager

SUBJECT UPDATED PRELIMINARY UTILITY COST ESTIMATE

the subject project.

FACILITY OWNER		NON-REIMBURSABLE		REIMBURSABLE
City of Clayton Water & Sewer	**	$1,482,000		$0
City of Dilllard	**	$192,000		$0
City of Mountain City - Sewer	**	$246,000		$0
Clayton-Rabun W&S Authority	**	$456,000		$0
Georgia Power Distribution		$0		$1,056,000
Georgia Power Transmission		$0		$396,900
NGN Cooperative (Fiber)		$66,000		$0
Rabun Co. Board of Education		$66,000		$0
Toccoa Natural Gas	**	$870,000		$0
TruVista Cable TV		$180,000		$0
Windstream Telephone		$570,000		$300,000
TOTALS		**$4,128,000**		**$1,752,900**
Total Non-Reimbursable Cost		**$4,128,000**		
Total Reimbursable Cost				**$1,752,900**

**** If the local gov't is granted utility aid, $ 3,246,000 will need to be added to the reimbursable cost.**

If you have any questions, please contact Robby Oliver at 770-531-5772.

CC: Lee Upkins, State Utilities Engineer
Matt Needham, Area Engineer
File

EDS00-0441-00(028)

RABUN COUNTY

P.I. Number 122090

The proposed widening and reconstruction of approximately 7.75 miles of SR 15/US 441 from the northern city limits of Clayton to north of the Georgia/North Carolina State Line

ENVIRONMENTAL ASSESSMENT
U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
AND
GEORGIA DEPARTMENT OF TRANSPORTATION
SUBMITTED PURSUANT TO 42 USC 4321 et. seq.
And 49 USC 303 (for 4(f), if applicable)

David Burchardt 2/29/16
NEPA DATE

Eric Duff for 2-29-16
Eric Duff DATE
State Environmental Administrator

APPROVAL FOR ADVANCEMENT TO AVAILABILITY/PUBLIC HEARING PHASE

3-3-16
DATE

Jennifer L. Gersch
FOR: RODNEY N. BARRY, P.E.
DIVISION ADMINISTRATOR
FEDERAL HIGHWAY ADMINISTRATION

****

David Burchardt 6/28/16
NEPA DATE

Eric Duff (B) 6/28/16
Eric Duff DATE
State Environmental Administrator

APPROVAL OF ENVIRONMENTAL ASSESSMENT

6/28/16
DATE

Aaron Hawkins
FOR: RODNEY N. BARRY, P.E.
DIVISION ADMINISTRATOR
FEDERAL HIGHWAY ADMINISTRATION

NOTICE OF LOCATION AND DESIGN APPROVAL
PROJECT NUMBER EDS00-0441-00(028), RABUN COUNTY
P. I. NUMBER 122090-

Notice is hereby given in compliance with Georgia Code 22-2-109 and 32-3-5 that the Georgia Department of Transportation has approved the Location and Design of this project.

The date of location and design approval is: **June 28, 2016**

The project begins at mile post 12.3 at the northern city limit of Clayton. It continues northward along SR 15/US 441 through Mountain City and the City of Dillard. The project would end 800 feet beyond the state line in North Carolina. The total length of the project is approximately 7.4 miles. The project is located in Land District 2 and Land Lots 35, 36, 49, 50, 63, 64, 78, 91, 105, 106, 119, 134, 135, 147, 162, 163, 174, 175, 190 and 191.

The proposed improvements will widen SR 15/US 441 to four lanes with a raised median throughout the project corridor. The design speed for the project is 45 mph. Bicycle accommodations will also be provided throughout the project corridor.

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:

Matt Needham, District 1, Area 4 Engineer
mneedham@dot.ga.gov
942 Albert Reid
Cleveland, GA 30528
706-348-4848

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:

Albert V. Shelby III, State Program Delivery Engineer
Office of Program Delivery
Attn: Charles A. Robinson, Project Manager
chrobinson@dot.ga.gov
600 West Peachtree Street, Floor 25
Atlanta, GA 30308
404-631-1439

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.