

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA
REVISED PROJECT CONCEPT REPORT**

Project Type: <u>Traffic Signal Upgrade</u>	P.I. Number: <u>0007354</u>
GDOT District: <u>1</u>	County: <u>Oconee</u>
Federal Route Number: <u>129, 129 Bus, 441, 441 Bus</u>	State Route Number: <u>15, 24, 53</u>

Remove the intersection SR 53 @ Hog Mountain Road from the scope of this project.

Submitted for approval:

<u><i>Bobby Hilliard</i></u> Office Head (GDOT Project Manager's Office)	<u>4-24-2012</u> DATE
<u><i>Sue Anne Decker</i></u> GDOT Project Manager	<u>4/19/12</u> DATE

Recommendation for approval:

<u><i>* Glenn Boasman /mas</i></u> State Environmental Administrator	<u>05-04-2012</u> DATE
<u><i>* Kathy Zahul /mas</i></u> State Traffic Engineer	<u>05-16-2012</u> DATE

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

<u><i>* Cindy VanDyke</i></u> State Transportation Planning Administrator (<i>recommendation required</i>)	<u>05-04-2012</u> DATE
<u><i>* Recommendation on file.</i></u>	

PLANNING, APPROVED CONCEPT, & BACKGROUND DATA

None of the approved concept report items have been changed.

Project Justification Statement: As identified by the Traffic Signal Upgrade Program Manager, several intersections were identified as being deficient in traffic signal equipment and/or pedestrian accommodations. The signal deficiencies are characterized by the needs and improvements to meet current design standards outlined in the Manual of Uniform Traffic Control Devices (MUTCD) and the American with Disabilities Act (ADA) requirements. The specific improvements will aid in maximizing efficiency and effectiveness and include the following: modernization of signal and pedestrian equipment for cost-effective maintenance and communication capability, and signal operational capabilities to accommodate pedestrian traffic.

Description of the approved concept: The proposed project is located in and around the City of Watkinsville in Oconee County (100%). The project's five (5) locations consist of traffic signalization upgrades using the latest pedestrian facility improvements to include countdown pedestrian signals, ADA wheel chair ramps, and cross walk striping.

These improvements will be made to the following signalized intersections:

1. SR 15/SR 24 Bus/US 441 Bus/US 129 Bus @ SR 24, MP 12.98
2. SR 15/ SR 24 Bus/US 441 Bus/ US 129 Bus @ SR 53, MP 11.87
3. SR 53 @ SR 992 (Mars Hill Road)/Hog Mountain Road, MP 11.61
4. SR 15 @ SR 24 Bus/US 441 Bus/ US 129 Bus (Macon Highway)/Barnett Shoals Road, MP 11.49
5. SR 24/US 129/US 441 @ New High Shoals Road, MP 9.94

PDP Classification: Major Minor

Federal Oversight: Full Oversight Exempt State Funded Other

Projected Traffic AADT as shown in the approved Concept Report:

Open Year (20XX): Design Year (20YY):
Traffic Data is not required for this project. It does not add capacity.

Updated Traffic AADT:

Open Year (20XX): Design Year (20YY):
Traffic Data is not required for this project. It does not add capacity.

Functional Classification (Mainline):

SR 15 @ SR 24 - Urban Principal Arterial – Other
 @ SR 53 – Urban Minor Arterial
SR 24 – Urban Principal Arterial
SR 24 Bus @ SR 24 - Urban Principal Arterial – Other
 @ SR 53 – Urban Minor Arterial
SR 53 – Urban Minor Arterial
SR 992 (Mars Hill Rd) - Urban Minor Arterial

Hog Mountain Road (CR 027400) – Urban Minor Arterial
 New High Shoals Road (CR 027000) – Urban Principal Arterial - Other
 Barnett Shoals Road (CR 026200) – Rural Major Collector
 Shadrack Street – Local
 9th Street – Local
 Myrick Street - Local

VE Study anticipated: No Yes Completed – Date:

PROPOSED REVISIONS

Approved Features:	Proposed Features:
<p>#1) The approved concept report states that traffic signal upgrade and pedestrian accommodations will be installed at SR 53 @ Hog Mountain Road as part of the scope of this project.</p> <p>#2) Additionally, the approved concept report noted that Mars Hill Rd was also SR 992.</p>	<p>#1) We recommend removing the intersection SR 53 @ Hog Mountain Rd and all work associated with the intersection from this project.</p> <p>#2) Remove SR 992, from the project description.</p>
<p>Reason(s) for change:</p> <p>#1) After several meetings and discussions with upper management and the TMC, it has been determined that the intersection of SR 53 @ Hog Mountain Road will be upgraded in the widening projects, PI# 142060-Oconee Co, which has CST funding in 2016. Due to the widening, all the upgrades that would be constructed under this project would be torn out and redone under 142060- Oconee Co.</p> <p>#2) At the PFPR, we were told that Mars Hill is not SR 992.</p>	

ENVIRONMENTAL

Air Quality:

Is the project located in a PM 2.5 Non-attainment area? No Yes
 Is the project located in an Ozone Non-attainment area? No Yes

Potential environmental impacts of proposed revision: This change does not increase the amount of req'd RW. Therefore, it does not affect the approved environmental document.

Have proposed revisions been reviewed by environmental staff? No Yes
 This change does not increase the amount of req'd RW. Therefore, it does not affect the approved environmental document.

Environmental responsibilities (Studies/Documents/Permits): Edwards Pitman is under contract for environmental activities.

PROJECT COST & ADDITIONAL INFORMATION

Updated Cost Estimate		Date of Estimate
Base Construction Cost:	\$374,855.88	4/19/2012
Engineering and Inspection:	\$18,742.79	4/19/2012
Liquid AC Adjustment:	\$0.00	4/19/2012
Total Construction Cost:	\$393,598.67	4/19/2012
Right-of-Way:	\$207,000.00	4/19/2012
Utilities (reimbursable costs):	\$40,000.00	12/20/2011
Environmental Mitigation:	\$0.00	
TOTAL PROJECT COST:	\$640,598.67	4/19/2012

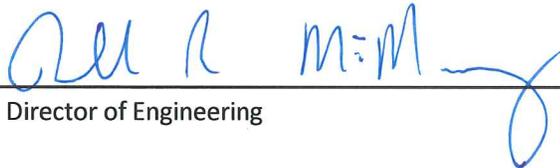
Recommendation: We recommend that the intersection SR 53 @ Hog Mountain Road be removed from the scope of this project and that SR 992 be removed from the project's description.

Comments: None.

Attachments:

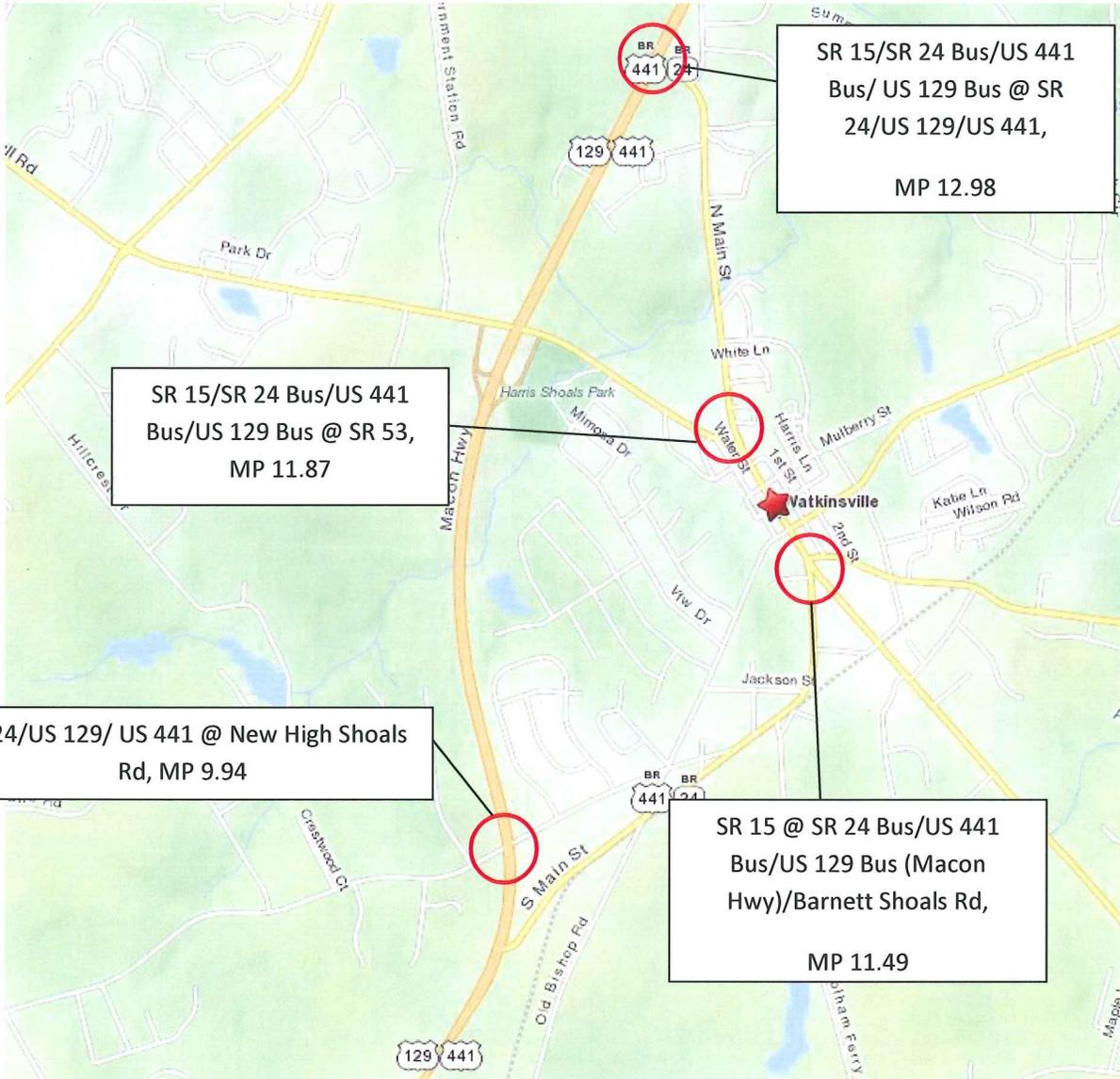
1. Sketch map
2. Cost Estimate
3. Email from Traffic Operations stating their concurrence to remove the intersection SR 53 @ Hog Mountain Rd.

APPROVALS

Concur: 
Director of Engineering

Approve: 
Chief Engineer

6/9/2012
Date



Oconee County

LOCATION SKETCH

NO SCALE

DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

FILE PROJECT No. CSSTP-0007-00(354), Oconee County
SR 15 @ 3 LOCS; SR 24 @ 1 LOC & SR 53 @ 1 LOC
P.I. No. 0007354

OFFICE Program Delivery

DATE 4/19/2012

Sue Anne Decker

FROM Michael Haithcock, P.E., Assistant Office Head, Office of Program Delivery

TO Ron Wishon, State Project Review Engineer, Office of Engineering Services

SUBJECT REVISIONS TO PROGRAMMED COSTS

PROJECT MANAGER Sue Anne Decker, P.E.

MNGT LET DATE 9/15/2013

MNGT R/W DATE 9/15/2012

PROGRAMMED COST (TPro W/OUT INFLATION)

LAST ESTIMATE UPDATE

CONSTRUCTION \$477,322.32

DATE 1/9/2012

RIGHT OF WAY \$163,000.00

DATE 1/9/2012

UTILITIES \$N/A

DATE N/A

REVISED COST ESTIMATES

CONSTRUCTION* \$393,598.67

RIGHT OF WAY \$207,000.00

UTILITIES \$40,000.00

* Cost contains 5% Engineering and Inspection.

REASON FOR COST DECREASE: SR 53 @ Hog Mountain Road was dropped from the intersection.

CONTINGENCY SUMMARY

Construction Cost Estimate:	\$374,855.88	(Base Estimate)
Engineering and Inspection:	\$18,742.79	(Base Estimate x 5 %)
Total Liquid AC Adjustment	\$0.00	
Construction Total:	\$393,598.67	
Utility Total:	\$40,000.00	

REIMBURSABLE UTILITY COST

Utility Owner	Reimbursable Costs
Georgia-Power Distribution	<u>\$40,000.00</u>
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

Attachments

cc: Kathy Zahul, State Traffic Engineer
Attn: Jim Tolson, State Signal Engineer

DETAILED COST ESTIMATE



Job: 0007354

JOB NUMBER: 0007354

FED/STATE PROJECT NUMBER

SPEC YEAR: 01

DESCRIPTION: SR 15 @ 3 LOCS, SR 24 @ 1 LOC, SR 53 @ 1 LOC

TRAFFIC SIGNAL UPGRADES

ITEMS FOR JOB 0007354

0010 - TRAFFIC SIGNALS

Line Number	ITEM	QUANTITY	UNITS	PRICE	DESCRIPTION	AMOUNT
0010	150-1000	1.000	LS	\$30,000.00	TRAFFIC CONTROL - CSSTP-0007-00(354)	\$30,000.00
0040	210-0100	1.000	LS	\$50,000.00	GRADING COMPLETE - CSSTP-0007-00(354)	\$50,000.00
0050	441-0108	127.000	SY	\$71.89	CONC SIDEWALK, 8 IN	\$9,130.43
0052	441-0748	105.000	SY	\$55.57	CONC MEDIAN, 6 IN	\$5,835.07
0057	441-6222	200.000	LF	\$26.26	CONC CURB & GUTTER/ 8"X30"TP2	\$5,251.96
0060	615-1200	2885.000	LF	\$11.58	DIRECTIONAL BORE - 3"	\$33,404.17
0068	636-1041	131.000	SF	\$39.92	HWY SIGNS,TP 2MAT,REFL SH TP 9	\$5,229.38
0070	639-4004	6.000	EA	\$5,848.96	STRAIN POLE, TP IV	\$35,093.77
0080	639-4004	1.000	EA	\$16,000.00	STRAIN POLE, TP IV WITH TANDEM MAST ARM	\$16,000.00
0090	647-1000	1.000	LS	\$39,100.00	TRAF SIGNAL INSTALLATION NO - 1	\$39,100.00
0100	647-1000	1.000	LS	\$43,700.00	TRAF SIGNAL INSTALLATION NO - 2	\$43,700.00
0110	647-1000	1.000	LS	\$40,300.00	TRAF SIGNAL INSTALLATION NO - 3	\$40,300.00
0130	647-1000	1.000	LS	\$32,100.00	TRAF SIGNAL INSTALLATION NO - 4	\$32,100.00
0139	653-0120	6.000	EA	\$80.37	THERM PVMT MARK, ARROW, TP 2	\$482.23
0140	653-1704	195.000	LF	\$4.83	THERM SOLID TRAF STRIPE,24",WH	\$942.62
0150	653-1804	3035.000	LF	\$2.28	THERM SOLID TRAF STRIPE, 8",WH	\$6,931.09
0160	682-6233	2950.000	LF	\$3.25	CONDUIT, NONMETL, TP 3, 2 IN	\$9,595.29
0255	937-6050	1.000	EA	\$4,800.00	INT VIDEO DET SYS ASMBLY, TP A	\$4,800.00
0265	937-8010	1.000	LS	\$5,000.00	TESTING - VIDEO DETECTION SYSTEM	\$5,000.00
SUBTOTAL FOR TRAFFIC SIGNALS:						\$372,896.01

0020 - EROSION CONTROL

Line Number	ITEM	QUANTITY	UNITS	PRICE	DESCRIPTION	AMOUNT
0020	163-0232	1.000	AC	\$415.86	TEMPORARY GRASSING	\$415.86
0030	163-0240	1.000	TN	\$256.78	MULCH	\$256.78
0200	700-6910	1.000	AC	\$417.96	PERMANENT GRASSING	\$417.96
0210	700-7000	1.000	TN	\$75.69	AGRICULTURAL LIME	\$75.69
0230	700-8000	1.000	TN	\$431.16	FERTILIZER MIXED GRADE	\$431.16
0240	700-8100	40.000	LB	\$2.27	FERTILIZER NITROGEN CONTENT	\$90.93
0249	700-9300	40.000	SY	\$4.31	SOD	\$172.55
0250	713-3001	160.000	SY	\$0.62	WOOD FIBER BLANKET,TP I,SLOPES	\$98.94
SUBTOTAL FOR EROSION CONTROL:						\$1,959.87

COST GROUP FOR JOB 0007354

LINE NUMBER	UNIT	CALCULATION RULE	QUANTITY	PRICE	COST GROUP ID	DESCRIPTION	AMOUNT
00000001	TN	NORM			CONC	CONCRETE (SY)	
00000002	LM	NORM			CRTS	COUNTY ROAD TRAFFIC STRIPE	
00000003	SY	NORM			EROC	EROSION CONTROL (SY)	
00000004	LS	NORM			ERTHLS	EARTHWORK (LS)	
00000005	LS	NORM			SGNL	TRAFFIC SIGNALS (LS)	
00000006	LS	NORM			TRFT	TRAFFIC CONTROL-TEMPORARY (LS)	
SUBTOTAL:							

TOTALS FOR JOB 0007354

ITEMS COST:		\$374,855.88
COST GROUP COST:		\$0.00
ESTIMATED COST:		\$374,855.88
CONTINGENCY PERCENT:		0.00
ENGINEERING AND INSPECTION:	\$18,742.79	-0.00
ESTIMATED COST WITH CONTINGENCY AND E&I:	\$393,598.67	\$374,855.88

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

INTERDEPARTMENT CORRESPONDENCE

FILE CSSTP-0007-00(354) Oconee OFFICE Gainesville
P.I. No. 0007354
Traffic Signal Upgrades at 5 locations DATE December 20, 2011

AP

FROM Allen Ferguson
District Utilities Engineer

TO Sue Anne Decker, Project Manager, Office of Program Delivery

SUBJECT UPDATED PRELIMINARY REIMBURSABLE UTILITY COST (ESTIMATE)

As requested by your office, we are furnishing you with a Preliminary Reimbursable Utility Cost estimate for the subject project.

<u>FACILITY OWNER</u>	<u>REIMBURSABLE</u>
Location No. 2: Georgia Power-Distribution	\$40,000.00

Total reimbursable cost for the above project is estimated to be \$40,000.00

Please note: at location No. 2 potential reimbursement and utility relocations by the electrical distribution, cable TV, and telecommunications can be avoided by installing a mast arm in the southwest quadrant.

If you have any questions, please contact Allen Ferguson at 770-532-5510.

RAF

C: Jeff Baker, State Utilities Engineer - via email
Angie Robinson, Office of Financial Management - via email
Tony Voyles, Area Engineer, - via email
File

**GEORGIA DEPARTMENT OF TRANSPORTATION
PRELIMINARY ROW COST ESTIMATE SUMMARY**

Date: 10/4/2011 Project: CSSTP-0007-00(354)
 Revised: 4/19/2012 County: Oconee
 PI: 0007354

Description: Traffic signalization upgrades
 Project Termini: Traffic signalization upgrades

Existing ROW: Varies
 Required ROW: Varies
 Parcels: 5

Land and Improvements \$97,680.00

Proximity Damage	\$0.00
Consequential Damage	\$0.00
Cost to Cures	\$0.00
Trade Fixtures	\$0.00
Improvements	\$25,000.00

Valuation Services \$12,500.00

Legal Services \$40,875.00

Relocation \$10,000.00

Demolition \$0.00

Administrative \$45,000.00

TOTAL ESTIMATED COSTS \$206,055.00

TOTAL ESTIMATED COSTS (ROUNDED) \$207,000.00

Preparation Credits	Hours	Signature

Prepared By: LeShore Alexander CG#: 286999 4/19/2012
 Approved By: LeShore Alexander CG#: 286999 4/19/2012

NOTE: No Market Appreciation is included in this Preliminary Cost Estimate

From: [Tolson, Jim](#)
To: [Decker, Sue Anne](#)
Cc: [Zahul, Kathy](#); [Galloway, Troy](#)
Subject: RE: Oconee Co. intersection resolution
Date: Friday, February 03, 2012 8:19:42 AM

That was a stand alone intersection on 0007354 so that's not a problem.

Please forward us an updated cost estimate when you get a chance.

Troy, please make a note on our spread sheet that intersection at SR 53 will be dropped and Dist will submit new cost estimate.

Thanks,

Jim Tolson, P.E.
State Signal Engineer
GDOT Office of Traffic Operations
935 East Confederate Ave., Bldg 5
Atlanta, GA 30316
Office: 404-624-7119
Mobile: 404-694-6579
Fax: 404-624-7116

From: Decker, Sue Anne
Sent: Thursday, February 02, 2012 3:36 PM
To: 'Todd DeVos'; 'Williams, Josh'; 'Josh Earhart (jearhart@edwards-pitman.com)'; Tolson, Jim; Zahul, Kathy
Subject: FW: Oconee Co. intersection resolution

Lady and Gentlemen,

Please see the request below from Brandon Kirby (PM) to delete SR 53 @ Hog Mountain Road from 0007354 Oconee County. Brandon has a widening project as this intersection. After several discussions, the recommendation was made to include the signal upgrade in his project and remove the intersection from this project. According to Brandon, District Traffic Operations is ok with this recommendation. We will discuss this change at the PFPR (date TBD).

Kathy/Jim – Are you ok with this?

If you have any questions/comments, please feel free to contact me.

Thanks and have a great day!

Sue Anne H. Decker, P.E.
Project Manager

Office: 706-646-6974

Blackberry: 404-987-1990

From: Kirby, Brandon
Sent: Thursday, February 02, 2012 3:22 PM
To: Decker, Sue Anne
Cc: Copeland, Howard (Phil); Haithcock, Michael; Ross, Gerald
Subject: Oconee Co. intersection resolution

Sue Anne,

After our meeting with the Chief Engineer on 1/11/12, I met with Mr. Copeland to discuss possibilities for coordinating ROW acquisition for both projects (0007354 a signal upgrade, 142060/0009011 urban widening).

We discussed various methods to avoid separate ROW purchases from the same 2 property owners. 142060 (2010 ROW, 2014 CST) improves half the intersection and 0009011 (2014 ROW, 2018 CST) improves the other half. The best option seemed for 142060 to improve the entire intersection and to remove the work from 0009011. At the time I discussed this with you and Mr. Copeland, I was unaware to do this required more ROW than just those 2 parcels. Further, the locals would have to modify their contract with their consultant to do final design for the added work.

Therefore, given you are at preliminary plan stage, I recommend deleting this intersection from your project and let 142060 and 0009011 accomplish the signal upgrade. This maintains one negotiation per property owner, but just delays the equipment upgrade. I discussed with the D1 Traffic Operations Office, and they agreed this would be the best scenario. They indicated the reason they submitted the intersection was solely to upgrade equipment and were OK to wait on the road widening.

If someone would like to discuss further, please let us know.

Brandon Kirby, P.E.

Project Manager

678.343.0816