**ORIGINAL TO GENERAL FILES**

# DEPARTMENT OF TRANSPORTATION
# STATE OF GEORGIA

## OFFICE OF DESIGN POLICY & SUPPORT
## INTERDEPARTMENTAL CORRESPONDENCE

**FILE** P.I. #0007363
CSSTP-0007-00(363)
GDOT District 2 - Tennille
Warren & Wilkes Counties
SR 10 @ SR 47, SR 10BU @ 2 LOC,
SR 12 @ SR 80, & SR 17 @ SR 44

**OFFICE** Design Policy & Support

**DATE** July 6, 2011

**FROM** for Brent Story, State Design Policy Engineer

**TO** SEE DISTRIBUTION

**SUBJECT** **APPROVED CONCEPT REPORT**

Attached is the approved Concept Report for the above subject project.

Attachment

DISTRIBUTION:

Genetha Rice-Singleton, Program Control Administrator
Bobby Hilliard, State Program Delivery Engineer
Cindy VanDyke, State Transportation Planning Administrator
Angela Robinson, Financial Management Administrator
Glenn Bowman, State Environmental Administrator
Kathy Zahul, State Traffic Engineer
Georgene Geary, State Materials & Research Engineer
Ron Wishon, State Project Review Engineer
Jeff Baker, State Utilities Engineer
Ken Thompson, Statewide Location Bureau Chief
Michael Henry, Systems & Classification Branch Chief
Jimmy Smith, District Engineer
George Brewer, District Preconstruction Engineer
Jamie Lindsey, District Utilities Engineer(acting)
Sue Anne Decker, Project Manager
BOARD MEMBER - 10th & 12th Congressional Districts

# DEPARTMENT OF TRANSPORTATION
# STATE OF GEORGIA

## PROJECT CONCEPT REPORT

Project Number: CSSTP-0007-00(363)
County: Warren and Wilkes
P. I. Number: 0007363
Federal Route Number: 78, 78 Bus, 278, 378
State Route Number: 10, 10 Bus, 12, 17, 17 Bus, 44, 47, 80

SR 10 @ SR 47; SR 10BU @ 2 LOC; SR 12 @ SR 80 & SR 17 @ SR 44

**Submitted for approval:**

DATE 6/1/11 — Sue Anne Decker
Project Manager

DATE 6/1/11 — [signature]
Assistant Office Head, Office of Program Delivery

**Recommendation for approval:**

DATE 6-16-11 — Genetha Rice-Singleton * /KLP
Program Control Administrator

DATE 6-20-11 — Glenn Bowman * /KLP
State Environmental Administrator

DATE 6-29-11 — Kathy Zahul * /KLP
State Traffic Engineer

DATE 6-16-11 — for Andrew Hoenig * /KLP
State Utilities Engineer

DATE 6-16-11 — Ron Wishon * /KLP
Project Review Engineer

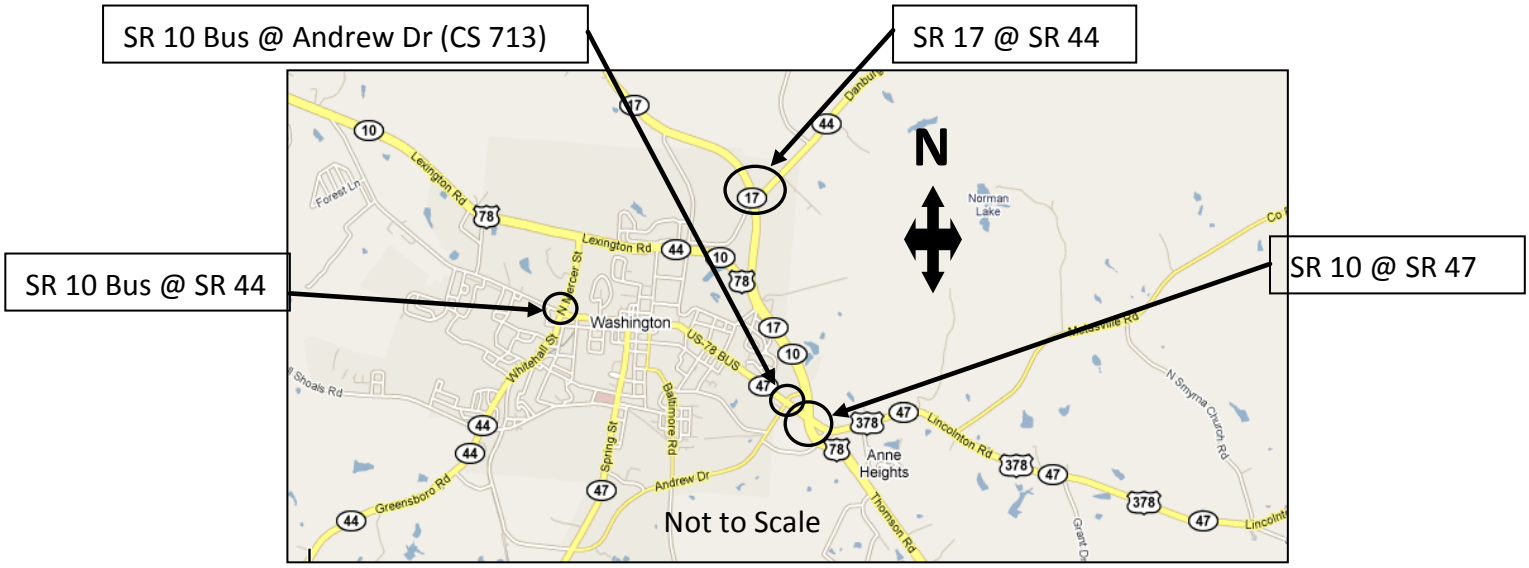
DATE _____ — _____
District Engineer

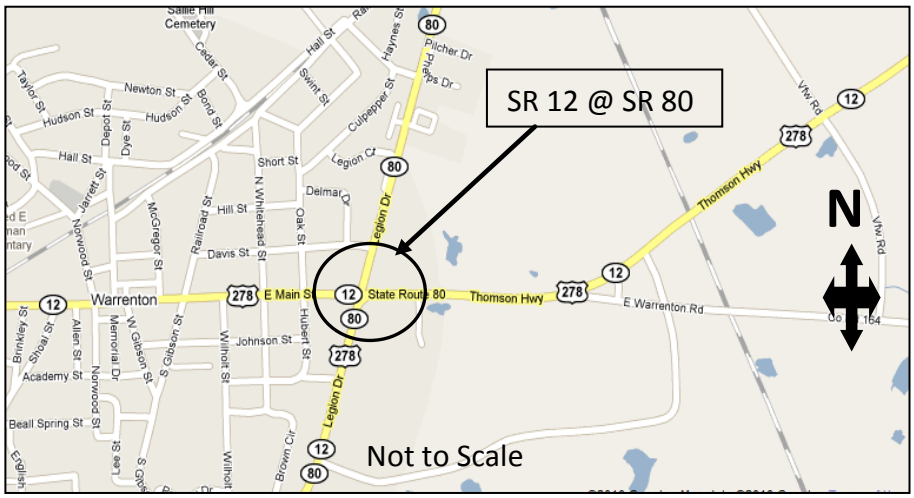
DATE _____ — _____
State Transportation Financial Management Administrator

* Recommendation on file

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

DATE 6-20-11 — Cynthia L Vaughn
State Transportation Planning Administrator


SR 10 Bus @ Andrew Dr (CS 713)
SR 17 @ SR 44
SR 10 Bus @ SR 44
SR 10 @ SR 47
N
Washington
Anne Heights
Not to Scale


SR 12 @ SR 80
N
Warrenton
E Main St
State Route 80
Thomson Hwy
Not to Scale

**Need and Purpose:** There are five (5) signalized intersections in Warren and Wilkes Counties in need of improvements to address compliance with current GDOT standards and the Manual on Uniform Traffic Control Devices (MUTCD) and the requirements of the Americans with Disabilities Act (ADA). The proposed project will enhance efficiency for vehicular and pedestrian movements at several locations by providing upgraded traffic signal equipment and pedestrian accommodations, which include the latest GDOT 2070 controller hardware and software platforms, energy saving LED signal heads, wheelchair ramps, pedestrian signals, and crosswalk striping.

**Description of the proposed project:** The project consists of traffic signal upgrades including the latest GDOT 2070 controller hardware and software platforms, energy saving LED signal heads, pedestrian facility improvements to including countdown pedestrian signals, ADA compliant wheel chair ramps, and cross walk striping at the following locations:

1. SR 10/SR 47/SR 17/US 78/US 378 (Sam McGill Pkwy) @ SR 10 Bus/SR 17 Bus/SR 47/US 78 Bus (R. Toombs Ave.) (M.P. 17.10)
2. SR 10 Bus @ SR 44 (Whitehall St.) (M.P. 2.42)
3. SR 10 Bus /SR 17 Bus/US 78 Bus @ Andrews Dr. (M.P. 4.37)
4. SR 12/East Main St. @ SR 80/Legion Dr. (M.P. 13.69)
5. SR 17@ SR 44 (Danburg Rd.) (M.P. 20.24)

**Is the project located in a PM 2.5 Non-attainment area?** _____Yes__X___No

**Is this project located in an Ozone Non-attainment area?** _____Yes__X___No

**PDP Classification:** Major _____ Minor __X___

**Federal Oversight:** Full Oversight ( ) Exempt (X) State Funded ( ) or Other ( )

**Functional Classification:**

SR 10/US 78 – Rural Principal Arterial - Other
SR 10 Bus/SR 17 Bus/US 78 Bus – Rural Minor Arterial
SR 12 - Rural Minor Arterial
SR 17 - Rural Principal Arterial - Other
SR 44 @ SR 10 Bus– Rural Minor Arterial
SR 44 @ SR 17 – Rural Major Collector
SR 47 – Rural Minor Arterial
SR 80 – Rural Major Collector
Andrew Dr. (CS 061209) – Rural Major Collector
Ann DeNard Dr. (CS 064309) – Rural Local

**U. S. Route Number(s):** 78, 278, & 378 **State Route Number(s)**: 10, 10 Bus, 12, 17, 17 Bus, 44, 47, & 80

**Traffic (AADT):**

Base Year: N/A Design Year: N/A
(This project does not add capacity)

**Existing design features:**

- Typical Section:
  -SR 10 is a four-lane divided roadway with 12-foot lanes, a concrete median and left and right turn lane at its intersection with SR 47.
  -SR 10 Bus/US 78 Bus - At its intersection with SR 47, it is a two lane divided roadway with 12-foot lanes and left and right turn lanes. At its intersection with Andrew Dr./Ann DeNard Dr., it is a two lane roadway with 11-foot lanes and left turn lanes.
  -SR 12 has two 12-foot lanes with 2-foot grassed shoulders and a right turn lane onto SB SR 80.
  -SR 17 is a four lane divided roadway with 12-foot lanes TP B left turn lanes and a 40-foot grassed median.
  -SR 17 Bus is a two lane divided roadway with 12-foot lanes and left and right turn lanes.
  -SR 44 (Danburg Rd) is a two lane roadway with right turn lanes at its intersection with SR 17.
  -SR 44 (Whitehall St.) At its intersection with SR 10 Bus, SR 44 is a two lane roadway with a right turn lane on to SR 10 Bus WB.
  -SR 47/US 378- At its intersection with SR 10, it is a two lane divided roadway with 12-foot lanes and left and right turn lanes.
  -SR 80 has two 12-foot lanes with 2-foot grassed shoulders and a right turn lane onto EB SR 12.
- Posted speeds
  SR 10 – 50 mph
  SR 10 Bus/US 78 Bus @ SR 44 – 35 mph
  SR 10 Bus /US 78 @ Andrew Dr./Ann DeNard Dr. – 45 mph
  SR 10 Bus/US 78 @ SR 10/SR 17/US 78/SR 47/US 378 – 45 mph
  SR 12 – 35 mph
  SR 17 – 45 mph
  SR 17 Bus – 45 mph
  SR 44 @ SR 10 Bus – 45 mph
  SR 44 @ SR 17 – 45 mph
  SR 47 – 35 mph
  SR 80-45 mph
  Andrew Dr. – 45 mph
  Ann DeNard Dr. - 35 mph
- Minimum radius for curve: N/A
- Maximum super-elevation rate for curve: N/A
- Maximum grade: N/A %
- Width of right-of-way: varies 60-120ft.
- Major structures: N/A
- Major interchanges or intersections along the project. N/A
- Existing length of roadway segment and the beginning mile logs for each county segment: N/A

- If an expansion or add-on to an existing ITS system (such as NaviGAtor), identify physical limits of field device location and/or brief explanation of new features: N/A

**Proposed Design Features:**

- Proposed typical section(s): Same as existing for all intersections.
- Proposed Design Speed Mainline: Same as existing for all intersections.
- Proposed Maximum grade Mainline: Same as existing for all intersections.
- Maximum grade allowable: (N/A)
- Proposed Maximum grade Side Street: (N/A)
- Maximum grade allowable: (N/A)%
- Proposed Maximum grade driveway: Same as existing for all intersections.
- Proposed Maximum degree of curve: Same as existing for all intersections.
- Maximum degree allowable: (N/A)
- Maximum superelevation rate: (N/A)
- Right-of-Way:
    - Width: Miters only expected
    - Easements: Temporary (N/A) Permanent (N/A) Utility (N/A) Other ( N/A ).
    - Type of access control: Full ( ) Partial ( ) By Permit (X ) Other ( ).
    - Number of parcels: (4) Number of displacements: (0)
        - Business: ____0_____
        - Residences: ____0_____
        - Mobile homes: ___0___
        - Other: _____0_____
- Structures:
    - Bridges: None
    - Retaining walls: None
- Major intersections, interchanges, median openings and signal locations. NA
- For ITS projects identify physical limits of field device location, location of any control centers and/or brief explanation of new features: NA
- Transportation Management Plan Anticipated: Yes ( ) No (X)

- Design Exceptions to controlling criteria anticipated:

| | YES | NO | UNDETERMINED |
|---|---|---|---|
| HORIZONTAL ALIGNMENT: | ( ) | (X) | ( ) |
| LANE WIDTH: | ( ) | (X) | ( ) |
| SHOULDER WIDTH: | ( ) | (X) | ( ) |
| VERTICAL GRADES: | ( ) | (X) | ( ) |
| CROSS SLOPES: | ( ) | (X) | ( ) |
| STOPPING SIGHT DISTANCE: | ( ) | (X) | ( ) |
| SUPERELEVATION RATES: | ( ) | (X) | ( ) |
| VERTICAL ALIGNMENT: | ( ) | (X) | ( ) |
| SPEED DESIGN: | ( ) | (X) | ( ) |
| VERTICAL CLEARANCE: | ( ) | (X) | ( ) |
| BRIDGE WIDTH: | ( ) | (X) | ( ) |
| BRIDGE STRUCTURAL CAPACITY: | ( ) | (X) | ( ) |
| LATERAL OFFSET TO OBSTRUCTION: | ( ) | (X) | ( ) |

- Design Variances: None Anticipated
- Environmental concerns: None Anticipated
  - No 404 permit anticipated.
  - No impacts are expected to water quality.
  - No sites require preservation in place.
- Anticipated Level of environmental analysis:
  - Are Time Savings Procedures appropriate? Yes (X) No ( )
  - Categorical exclusion (X).
  - Environmental Assessment/Finding of No Significant Impact anticipated (FONSI) ().
  - Environmental Impact Statement (EIS) ( ).
- Utility involvements: Communications, and Power
- VE Study Anticipated Yes ( ) No (X)
- Benefit/Cost Ratio N/A

**Project Cost Estimate and Funding Responsibilities:**

| | PE | ROW | UTILITY | CST | MITIGATION |
|---|---|---|---|---|---|
| By Whom | GDOT | GDOT | GDOT | GDOT | GDOT |
| $ Amount | $184,992.70 | $273,000.00 | $0.00 | $465,855.80* | N/A |

*Cost contains 5% Engineering and Inspection.

**Project Activities Responsibilities:**

- Design: GDOT
- Right-of-Way Acquisition: GDOT
- Right-of-Way funding (real property): GDOT
- Relocation of Utilities: GDOT
- Letting to contract: GDOT
- Supervision of construction: GDOT
- Providing material pits: Not applicable
- Providing detours: Not applicable
- Environmental Studies/Documents/Permits: GDOT
- Environmental Mitigation: Not Applicable

**Coordination**

- Initial Concept Meeting date and brief summary. (Not applicable)
- Concept meeting date and brief summary. (Not applicable)
- P A R meetings, dates and results. (Not applicable)
- FEMA, USCG, and/or TVA. (Not applicable)
- Public involvement. (Not applicable)
- Local government comments. (Not applicable)
- Other projects in the area. (Not applicable)
- Railroads. (Not applicable)
- Other coordination to date. (Not applicable)

**Scheduling – Responsible Parties' Estimate**

- Time to complete the environmental process: Begin: 7-2011 End: 4-2012
    - TPro shows an approved Env. Doc., but it only covers 2 of the 5 intersections. Special studies will be conducted for the remaining intersections.
- Time to complete preliminary construction plans: Begin: 7-2011 End: 2-2012
- Time to complete right-of-way plans: Begin: 2-2012 End: 6-2012
- Time to complete the Section 404 Permit: Begin: NA End: NA
- Time to complete final construction plans: Begin: 6-2012 End: 11-2012
- Time to complete to purchase right-of-way: Begin: 10-2012 End: 10-2013
- List other major items that will affect the project schedule: Begin: NA End: NA

**Other alternates considered**: Not applicable

**Comments:** None

**Attachments:**

1. Detailed Cost Estimates:
    a. Construction including Engineering and Inspection
    b. Right-of-Way.
    c. Utilities

Concur: _____
Director of Engineering

Approve: _____ Date: July 5, 2011
Chief Engineer

# DEPARTMENT OF TRANSPORTATION
# STATE OF GEORGIA

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INTERDEPARTMENT CORRESPONDENCE

**FILE:** PROJECT No. CSSTP-0007-00(363) Warren and Wilkes Co. **OFFICE:** Program Delivery
SR 10 @ SR 47; SR 10BU @2 LOC; SR 12 @ SR 80 & SR 17 @ SR 44
P.I. No.: 0007363 **DATE:** 6/1/2011

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

**TO:** Ron Wishon, Transportation Engineering Administrator

**SUBJECT: REVISIONS TO PROGRAMMED COSTS**

PROJECT MANAGER: Sue Anne Decker, P.E.

MNGT LET DATE: 12/16/2011

MNGT R/W DATE: 7/15/2009

| **PROGRAMMED COST (TPro W/OUT INFLATION)** | | **LAST ESTIMATE UPDATE** |
|---|---|---|
| CONSTRUCTION: | $200,000.00 | DATE: 3/17/2005 |
| RIGHT OF WAY: | $0 | DATE: N/A |
| UTILITIES: | $N/A | DATE: N/A |

**REVISED COST ESTIMATES**

| | |
|---|---|
| CONSTRUCTION:* | **$**465,855.80 |
| RIGHT OF WAY: | $273,000.00 |
| UTILITIES: | $0.00 |

* Cost contains 5% Engineering and Inspection.

**REASON FOR COST INCREASE:** This is a concept cost estimate.

**CONTINGENCY SUMMARY**

| | | |
|---|---|---|
| Construction Cost Estimate: | $443,672.19 | (Base Estimate) |
| Engineering and Inspection: | $22,183.61 | (Base Estimate x 5 %) |
| Total Fuel Adjustment | $ 0 | (From attached worksheet) |
| Total Liquid AC Adjustment | $ 0 | (From attached worksheet) |
| **Construction Total:** | $465,855.80 | |

**Utility Total:** $0.00

**REIMBURSABLE UTILITY COST**

| Utility Owner | Reimbursable Costs |
|---|---|
| _____ | _____ |
| _____ | _____ |
| _____ | _____ |
| _____ | _____ |
| _____ | _____ |
| _____ | _____ |
| _____ | _____ |
| _____ | _____ |
| _____ | _____ |
| _____ | _____ |
| _____ | _____ |
| _____ | _____ |
| _____ | _____ |
| _____ | _____ |
| _____ | _____ |
| _____ | _____ |
| _____ | _____ |

Attachments

JOB ESTIMATE REPORT
DATE: 03/18/2011

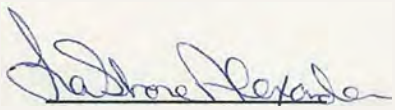
JOB NUMBER: 0007363
DESCRIPTION: TRAFFIC SIGNAL UPGRADES
WARREN AND WILKES COUNTIES

| ITEM | UNITS | DESCRIPTION | QUANTITY | PRICE | AMOUNT |
|---|---|---|---|---|---|
| 652-2501 | LM | SOLID TRAF STRIPE, 5 IN, WHITE | 1.000 | 361.74 | 361.74 |
| 652-2502 | LM | SOLID TRAF STRIPE, 5 IN, YELLO | 1.000 | 326.98 | 326.98 |
| 652-3501 | GLM | SKIP TRAF STRIPE, 5 IN, WHITE | 1.000 | 250.09 | 250.09 |
| 163-0240 | TN | MULCH | 10.000 | 173.93 | 1,739.31 |
| 700-6910 | AC | PERMANENT GRASSING | 1.000 | 466.59 | 466.59 |
| 700-7000 | TN | AGRICULTURAL LIME | 4.000 | 57.52 | 230.10 |
| 700-7010 | GL | LIQUID LIME | 5.000 | 20.54 | 102.73 |
| 700-8000 | TN | FERTILIZER MIXED GRADE | 3.000 | 515.95 | 1,547.86 |
| 700-8100 | LB | FERTILIZER NITROGEN CONTENT | 200.000 | 2.35 | 470.81 |
| 713-3011 | SY | WOOD FIBER BLANKET, TP I, SHOULDERS | 2500.000 | 0.10 | 254.23 |
| 163-0232 | AC | TEMPORARY GRASSING | 1.000 | 362.23 | 362.23 |
| 647-1000 | LS | TRAF SIGNAL INSTALLATION NO - 1 | 1.000 | 60,000.00 | 60,000.00 |
| 647-2130 | EA | PULL BOX, PB-3 | 4.000 | 391.00 | 1,564.00 |
| 636-1020 | SF | HWY SGN,TP1MAT,REFL SH TP3 | 50.000 | 13.58 | 679.36 |
| 636-1033 | SF | HWY SIGNS, TP1MAT,REFL SH TP 9 | 50.000 | 17.44 | 872.31 |
| 150-1000 | LS | TRAFFIC CONTROL - 0007363 | 1.000 | 150,000.00 | 150,000.00 |
| 652-5701 | LF | SOLID TRAF STRIPE, 24", WHITE | 310.000 | 2.14 | 663.74 |
| 652-5801 | LF | SOLID TRAF STRIPE, 8 IN, WHITE | 1000.000 | 1.40 | 1,406.60 |
| 647-1000 | LS | TRAF SIGNAL INSTALLATION NO - 2 | 1.000 | 60,000.00 | 60,000.00 |
| 647-1000 | LS | TRAF SIGNAL INSTALLATION NO - 3 | 1.000 | 60,000.00 | 60,000.00 |
| 647-1000 | LS | TRAF SIGNAL INSTALLATION NO - 4 | 1.000 | 60,000.00 | 60,000.00 |
| 652-0110 | EA | PAVEMENT MARKING, ARROW, TP 1 | 25.000 | 42.91 | 1,072.85 |
| 652-0210 | EA | PAVEMENT MARKING, WORD, TP 1 | 12.000 | 42.96 | 515.60 |
| 615-1100 | LF | DIRECTIONAL BORE PIPE - 3" | 150.000 | 91.85 | 13,778.81 |
| 441-0108 | SY | CONC SIDEWALK, 8 IN | 550.000 | 49.10 | 27,006.24 |
| ITEM TOTAL | | | | | $443,672.19 |

| | |
|---|---|
| ESTIMATED COST: | $443,672.19 |
| CONTINGENCY PERCENT ( 0.0 ): | $0.00 |
| ESTIMATED TOTAL: | $443,672.19 |

NOTE: The item totals include all alternate items. The estimated totals include only the low cost alternate items.

# Preliminary Right of Way Cost Estimate



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

**Date:** May 12, 2011
**Project:** CSSTP-0007-00(363) Warren & Wilkes **P.I. Number:** 0007363
**Existing/Required R/W:** Varies/Varies **No. Parcels:**
**Project Termini :** SR 10@ SR 47; SR 10@ 2 loc;SR 12 @ SR 80 & SR 17 @ SR 44
**Project Description:** Pedestrian upgrades @ 5 SR Location in Warren & Wilkes County

| | | |
|---|---|---|
| **Land:** Commercial R/W: 0.75 @ $ 100,000/acre | $ | 75,000 |
| **Improvements :** landscaping<br>misc. site improvements | | 35,000 |
| **Relocation:** Commercial ( 0 )<br>Residential ( 0 | | 0 |
| **Damage :** Proximity ( 0 )<br>Consequential<br>Cost to Cure ( 0 ) | | |
| Net Cost | $ | 110,000 |

| | | | |
|---|---|---|---|
| **Net Cost** | | $ | 110,000 |
| **Scheduling Contingency** | 55 % | | 60,500 |
| **Adm/Court Cost** | 60 % | | 102,300 |
| | | $ | 272,800 |

# Total Cost **$273,000**

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

# DEPARTMENT OF TRANSPORTATION
# STATE OF GEORGIA

## INTERDEPARTMENT CORRESPONDENCE

**FILE** CSSTP-0007-00 (363) Columbia/Richmond
P.I. No. 0007363

**OFFICE** Tennille

**DATE** June 13, 2011

**FROM** Jamie Lindsey
Assistant District Utilities Engineer

**TO** Sue Anne Decker, Project Manager
**ATTN**

**SUBJECT** PRELIMINARY CONCEPT UTILITY COST (ESTIMATE)

As requested by your office, we are furnishing you with a Preliminary Utility Cost estimates for each utility with facilities potentially located within the project limits.

| FACILITY OWNER | NON-REIMBURSABLE | REIMBURSABLE |
|---|---|---|
| Georgia Power Co. (D) | $50,000.00 | |
| Rayle EMC | $50,000.00 | |
| Wilkes Telephone Co. | | |
| AT&T Georgia | | |
| City of Washington | | |
| City of Warrenton | | |
| Total | $100,000.00 | |

Total non-reimbursable cost for the above project is $100,000.00.

If you have any questions, please contact Jamie Lindsey at 478-552-4637.

JLL

C: Jeff Baker, State Utilities Engineer
Mike Keene, Area Engineer