

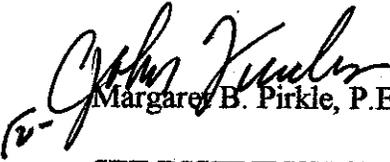
**DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA**

**INTERDEPARTMENT CORRESPONDENCE**

**FILE** CSSTP-0006-00(307) Henry County  
P. I. No. 0006307

**OFFICE** Preconstruction

**DATE** February 5, 2004

**FROM**  Margaret B. Pirkle, P.E., Assistant Director of Preconstruction

**TO** SEE DISTRIBUTION

**SUBJECT** PROJECT CONCEPT REPORT APPROVAL

Attached for your files is the approval for subject project.

MBP/cj

Attachment

**DISTRIBUTION:**

David Mulling  
Harvey Keeper  
Jerry Hobbs  
Percy Middlebrooks  
Michael Henry  
Phillip Allen  
Joe Palladi (file copy)  
Paul Liles  
Brent Story  
Thomas Howell  
BOARD MEMBER

**DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA**

**INTERDEPARTMENT CORRESPONDENCE**

**FILE** CSSTP-0006-00(307) Henry County **OFFICE** Preconstruction  
P.I. No. 0006307

**DATE** January 22, 2004

**FROM**   
Margaret B. Pirkle, P.E., Assistant Director of Preconstruction

**TO**  Paul V. Mullins, P.E., Chief Engineer

**SUBJECT PROJECT CONCEPT REPORT**

This project is the Towaliga River wetland mitigation site, located approximately 1.5 miles east of the city of Hampton and immediately south of the proposed Hampton Bypass/SR 20 alignment. The site is a 146.3 acre tract that includes approximately 65.5 acres of wetland enhancement and restoration and 8,600' of stream restoration. The wetland mitigation site is owned by the GDOT. Wetland restoration proposed under this project would include compensatory wetland and stream mitigation for impacts resulting from construction of the SR 20 widening and Hampton Bypass (MLP-20(150), P.I. No. 343060; MLP-0001-00(979), P.I. No. 0001979). This mitigation project would fulfill Army Corps of Engineer's 404 permit mitigation requirements

Environmental concerns include requiring a Categorical Exclusion be prepared.

The estimated costs for this project are:

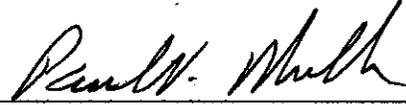
	<u>PROPOSED</u>	<u>APPROVED</u>	<u>PROG DATE</u>	<u>LET DATE</u>
Construction (includes E&C and inflation)	\$709,000	\$585,000	Lump	Lump
Right-of-Way & Utilities*	-0-	-0-		

I recommend this project concept be approved.

MBP:JDQ/cj

Attachment

CONCUR   
Thomas L. Turner, P.E., Director of Preconstruction

APPROVE   
Paul V. Mullins, P.E., Chief Engineer

DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA

INTERDEPARTMENTAL CORRESPONDENCE

**FILE:** CSSTP-0006-00(307) Henry  
P.I. No.: 0006307  
Mitigation Site

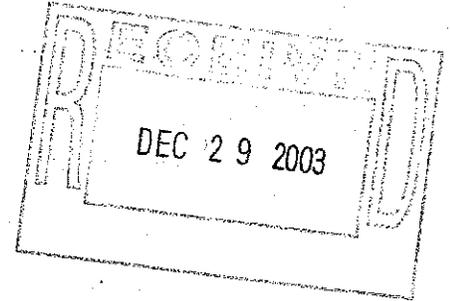
**OFFICE:** Engineering Services

**DATE:** December 29, 2003

**FROM:** David Mulling, Project Review Engineer *REW*

**TO:** Meg Pirkle, Assistant Director of Preconstruction

**SUBJECT:** CONCEPT REPORT



We have reviewed the Concept Report submitted December 23, 2003 by the letter from Harvey Keeper, dated December 22, 2003, and have the following comments.

- The "Project Responsibilities" shown on Page 5 should show who is responsible for the different aspects of the project.
- Right of Way costs should be included in the Cost Estimate.

The costs for this project are:

Construction	\$585,000
Inflation	\$58,500
E&C	\$64,350
Reimbursable Utilities	\$0.00
Right of Way	\$Not included

REW

c: Harvey Keeper, Attn.: Steve Wiedl

## SCORING RESULTS AS PER MOG 2440-2

<b>Project Number:</b> CSSTP-0006-00(307)		<b>County:</b> Henry		<b>PI No.:</b> 0006307	
<b>Report Date:</b> December 8, 2003		<b>Concept By:</b> DOT Office: Environment/Location			
<input checked="" type="checkbox"/> Concept Stage		Consultant: N/A			
<b>Project Type:</b> Choose One From Each Column		<input type="checkbox"/> Major <input checked="" type="checkbox"/> Minor	<input type="checkbox"/> Urban <input checked="" type="checkbox"/> Rural	<input type="checkbox"/> ATMS <input type="checkbox"/> Bridge Replacement <input type="checkbox"/> Building <input type="checkbox"/> Interchange Reconstruction <input type="checkbox"/> Intersection Improvement <input type="checkbox"/> Interstate <input type="checkbox"/> New Location <input type="checkbox"/> Widening & Reconstruction <input checked="" type="checkbox"/> Miscellaneous	
<b>FOCUS AREAS</b>	<b>SCORE</b>	<b>RESULTS</b>			
<b>Presentation</b>	90	Right of Way costs should be included in the Cost Estimate. Project Responsibilities should be shown.			
<b>Judgement</b>	100				
<b>Environmental</b>	100				
<b>Right of Way</b>	100				
<b>Utility</b>	100				
<b>Constructability</b>	100				
<b>Schedule</b>	100				

**DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA**

*Office of Environment & Location*

**PROJECT CONCEPT REPORT**

Project Number: CSSTP-0006-00(307)

County: Henry

P. I. Number: 0006307

Federal Route Number: N/A

State Route Number: N/A

Recommendation for approval:

DATE 12-8-03

Steph C. Wiedl  
Project Manager

DATE 12/8/03

Harvey D. Kepler / SBK  
Office Head

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

DATE \_\_\_\_\_

DATE 12/8/03

DATE \_\_\_\_\_

DATE \_\_\_\_\_

DATE \_\_\_\_\_

DATE \_\_\_\_\_

[Signature]  
State Transportation Planning Administrator  
Financial Management Administrator

State Traffic Safety and Design Engineer

District Engineer - Chamblee

Project Review Engineer

State Road and Airport Design Engineer

DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

FILE CSSTP-0006-00(307), Henry Co. OFFICE Environment/Location  
P.I. No. 0006307

DATE December 22, 2003

HDK/SPK

FROM Harvey D. Keepler, State Environmental/Location Engineer

TO Meg Pirkle, Assistant Pre-Construction Division Director

SUBJECT Concept Report-Towliga River Stream Restoration Project

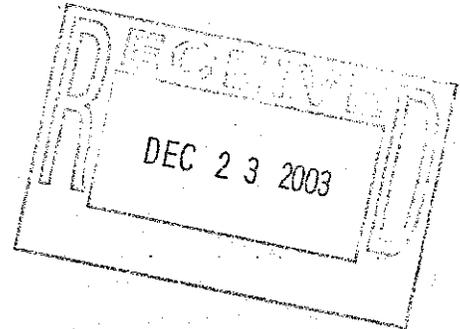
Attached please find the original copy of the concept report for the subject stream restoration project for your further handling for approval in accordance with the Plan Development Process (PDP).

Thank you for your attention to this issue. Please contact Mr. Steve Wiedl at (404)699-4420 if there are questions.

HDK/SCW

Attachment

cc: David Mulling  
Gerald Ross  
Percy Middlebrooks  
Phillip Allen  
Buddy Gratton/Chamblee District  
Joe Palladi



**DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA**

*Office of Environment & Location*

**PROJECT CONCEPT REPORT**

Project Number: CSSTP-0006-00(307)

County: Henry

P. I. Number: 0006307

Federal Route Number: N/A

State Route Number: N/A

Recommendation for approval:

DATE 12-8-03

Steph C. Wiedl  
Project Manager

DATE 12/8/03

Harvey D. Keepler / SBK  
Office Head

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

DATE \_\_\_\_\_

\_\_\_\_\_  
State Transportation Planning Administrator

DATE \_\_\_\_\_

\_\_\_\_\_  
Financial Management Administrator

DATE \_\_\_\_\_

\_\_\_\_\_  
State Traffic Safety and Design Engineer

DATE \_\_\_\_\_

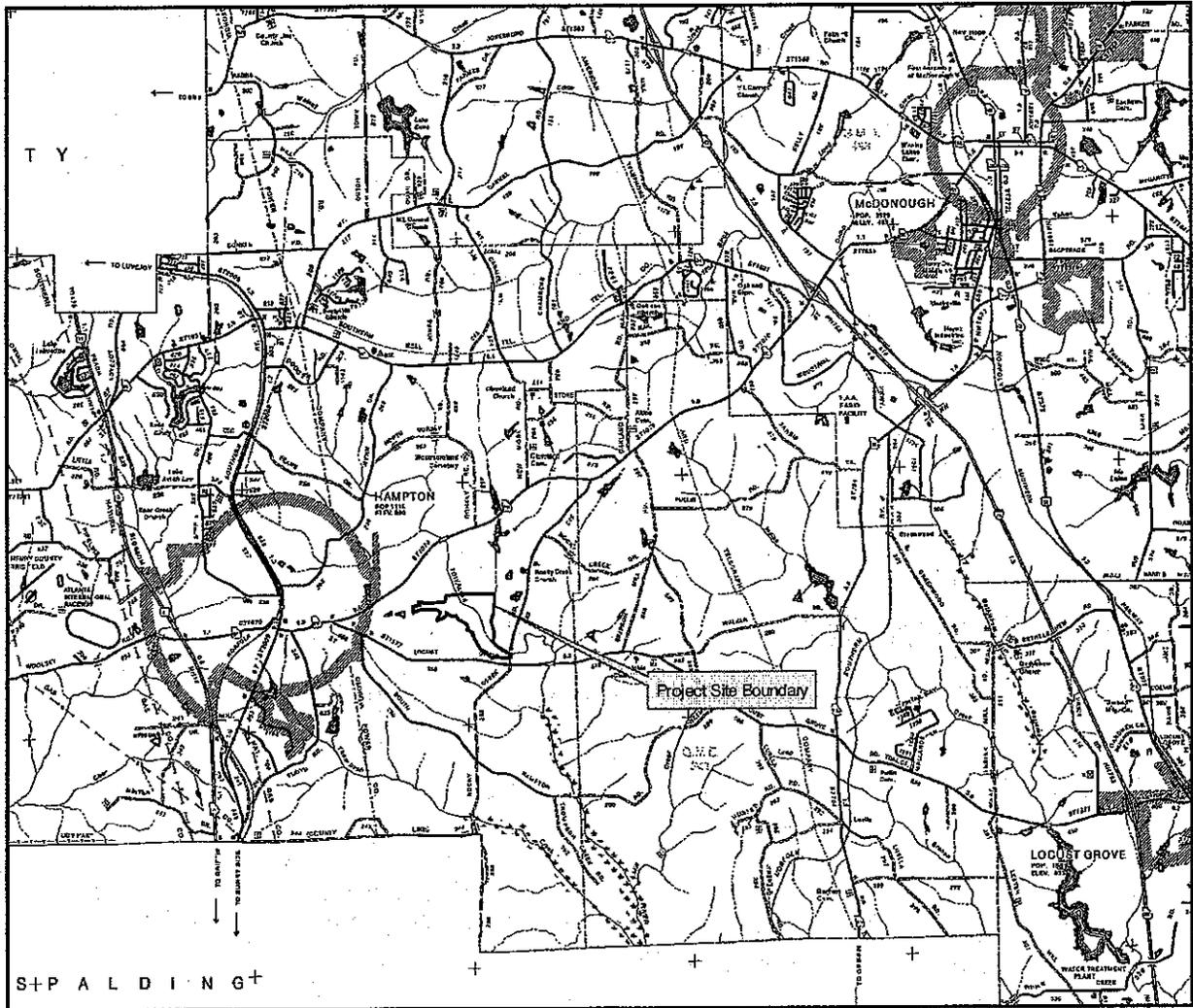
\_\_\_\_\_  
District Engineer - Chamblee

DATE \_\_\_\_\_

\_\_\_\_\_  
Project Review Engineer

DATE \_\_\_\_\_

\_\_\_\_\_  
State Road and Airport Design Engineer



Project Concept Report page 3  
Project Number: CSSTP-0006-00(307)  
P. I. Number: 0006307  
County: Henry

**Need and Purpose:** *To provide compensatory wetland and stream mitigation for impacts resulting from construction of the SR20 widening and Hampton Bypass (MLP-20(150), MLP-0001-00(979); PI: 343060, 0001979). This mitigation project is a condition for issuance of the 404 permit for the SR20 project.*

**Description of the proposed project:** *The site is located in Henry County, approximately 1.5 miles east of the city of Hampton and immediately south of the proposed Hampton Bypass/SR 20 alignment. The property is bounded on the east by Rocky Creek Road and on the south by Locust Grove Road/Hampton Road. The site is a 146.3 acre tract that includes approximately 65.5 acres of wetland enhancement and restoration and 8600 feet of stream restoration. The project site was chosen for its wetland and stream restoration potential, the willingness of the previous landowners to sell the property, and its proximity to the Hampton Bypass/SR 20 alignment.*

**Is the project located in a Non-attainment area?**  **Yes**  **No.** *This project is not for transportation purposes so will have no effect on air quality.*

**PDP Classification:** Major  Minor   
**Federal Oversight:** Full Oversight (  ), Exempt (  ), State Funded (  ), or Other (  )

**Functional Classification:** N/A

**U. S. Route Number(s):** N/A **State Route Number(s):** N/A

**Traffic (AADT):**  
Current Year: (20XX) N/A Design Year: (20YY) N/A

**Existing design features:**

- Typical Section: N/A
- Posted speed N/A mph Maximum degree of curvature: N/A
- Maximum grade: N/A % (List mainline, cross roads, and driveways)
- Width of right of way: N/A ft.
- Major structures: N/A List all bridge structures including length, width, and sufficient rating).
- Major interchanges or intersections along the project: Rocky Creek Road/Hampton Road
- Existing length of roadway segment and the beginning mile logs for each county segment. N/A

**Proposed Design Features:**

- Proposed typical section(s): *N/A*
- Proposed Design Speed Mainline *\_\_\_ N/A \_\_\_* mph
- Proposed Maximum grade Mainline *\_\_\_ N/A \_\_\_* %      Maximum grade allowable *\_\_\_ N/A \_\_\_* %.
- Proposed Maximum grade Side Street *\_\_\_ N/A \_\_\_* % Maximum grade allowable *\_\_\_ N/A \_\_\_* %.
- Proposed Maximum grade driveway *\_\_\_ N/A \_\_\_* %
- Proposed Maximum degree of curve *\_\_\_ N/A \_\_\_*.      Maximum degree allowable *\_\_\_ N/A \_\_\_*.
- Right of way
  - Width *\_\_\_ N/A \_\_\_*.
  - Easements: Temporary ( ), Permanent ( ), Utility ( ), Other ( ).
  - Type of access control: Full (X), Partial ( ), By Permit ( ), Other ( ).
  - Number of parcels: *\_\_\_ 1 \_\_\_*      Number of displacements:
    - Business: \_\_\_\_\_
    - Residences: \_\_\_\_\_
    - Mobile homes: \_\_\_\_\_
    - Other: \_\_\_\_\_
- Structures:
  - No structures will be constructed.
- Major intersections and interchanges.
- Traffic control during construction: *No traffic control is necessary.*
- Design Exceptions to controlling criteria anticipated:

	<u>UNDETERMINED</u>	<u>YES</u>	<u>NO</u>
HORIZONTAL ALIGNMENT:	( )	( )	(X)
ROADWAY WIDTH:	( )	( )	(X)
SHOULDER WIDTH:	( )	( )	(X)
VERTICAL GRADES:	( )	( )	(X)
CROSS SLOPES:	( )	( )	(X)
STOPPING SIGHT DISTANCE:	( )	( )	(X)
SUPERELEVATION RATES:	( )	( )	(X)
HORIZONTAL CLEARANCE:	( )	( )	(X)
SPEED DESIGN:	( )	( )	(X)
VERTICAL CLEARANCE:	( )	( )	(X)
BRIDGE WIDTH:	( )	( )	(X)
BRIDGE STRUCTURAL CAPACITY:	( )	( )	(X)

- Design Variances; No design variances are expected.
- Environmental concerns: The 404 permit has been obtained for this project.

Project Concept Report page 5  
Project Number: CSSTP-0006-00(307)  
P. I. Number: 0006307  
County: Henry

- Level of environmental analysis:
  - Are Time Savings Procedures appropriate? Yes ( X ), No ( ),
  - Categorical exclusion ( X ),
  - Environmental Assessment/Finding of No Significant Impact (FONSI) ( ), or
  - Environmental Impact Statement (EIS) ( ).
- Utility involvements: *No utilities will be crossed by this project.*

**Project responsibilities:**

- Design,
- Right of Way Acquisition,
- Letting to contract,
- Supervision of construction,
- Providing material pits.

**Coordination**

- Initial Concept Meeting date and brief summary. *Not required.*
- Concept meeting date and brief summary. *Not required.*
- P. A. R. meetings, dates and results. *Not required.*
- FEMA, USCG, and/or TVA. *Not required.*
- Public involvement. *Not required.*
- Local government comments. *Not required.*
- Other projects in the area. *Hampton Bypass/SR 20*
- Other coordination to date. *N/A*
- Railroads. *N/A*

**Scheduling – Responsible Parties' Estimate**

- Time to complete the environmental process:   0   Months.
- Time to complete preliminary construction plans:   6   Months.
- Time to complete right of way plans:   0   Months.
- Time to complete the Section 404 Permit:   0   Months.
- Time to complete final construction plans:   9   Months.
- Time to complete to purchase right of way:   0   Months.

Project Concept Report page 6  
 Project Number: CSSTP-0006-00(307)  
 P. I. Number: 0006307  
 County: Henry

**Other alternates considered:** This project is required by the section 404 permit for the Hampton Bypass/SR 20 project. Other sites were considered but this was considered to be the most environmentally appropriate site.

**Comments:**

**Attachments:**

Construction Estimate for Towaliga River Wetland and Stream Mitigation Project:

**Labor and Equipment:**

Item	Quantity	Units	Description	Estimated Cost/Unit	Estimated Cost/Item
Mobilization	----	----	Movement of equipment and materials to site.	----	\$20,000
Clearing and Grubbing	----	----	Tree clearing and grubbing.	----	\$30,000
Excavation and Grading of Floodplain Areas	16,500	CU YDS	Stockpiling of topsoil, excavation, building of berms, filling ditches, grading, and replacement of topsoil.	\$4.00	\$66,000
Construction/Stabilization of Stream Channel	8,600	LF	Excavation of new channel, installation of structures, matting of banks, and installation of transplants along banks.	\$35.00	\$301,000
Roughing of Soil	20	ACRES	Spreading of topsoil and restoration of wetland topography.	\$100.00	\$2,000
Erosion Control	----	----	Installation of ditch crossings, mulching, and seeding.	----	\$25,000
Livestaking	30,000	Stakes	Installation of livestakes.	1	\$30,000
Tree Planting and Permanent Seeding	75	ACRES	Planting of trees and spreading permanent seed mix to restore wetland vegetation.	\$100.00	\$7,500
<b>Total Labor/Equipment Costs</b>					<b>\$481,500</b>

Project Concept Report page 2  
 Project Number: CSSTP-0006-00(307)  
 P. I. Number: 0006307  
 County: Henry

**Materials:**

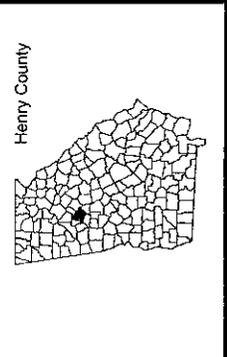
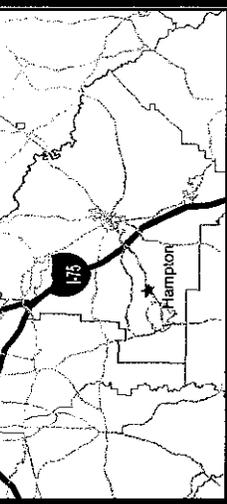
Item	Quantity	Units	Description	Estimated Cost/ Unit	Estimated Cost/Item
Mulch	1300	BALES	Straw bales, apply at 130 bales/acre	\$4.00	\$5,200
Temporary Seed	1300	LBS	Rye grain, apply at 130 lbs/acre	\$0.50	\$650
Permanent Seed	375	LBS	Wetland mixture, apply at 5 lbs/acre	\$6.00	\$2,250
Erosion Mat	7,500	SY	C7	\$2.00	\$15,000
Bare root trees	51,075	STEMS	Mixture based on availability, 681 stems/acre	\$0.35	\$17,876
Live Stakes	30,000	STAKES	Elderberry and Willow	\$1.00	\$30,000
Boulders	300	TONS	Minimum size range of 4'x3'x2' to 6'x4'x3' (assuming quarry within 15 miles of project site)	\$50.00	\$15,000
Class A/B Stone	496	TONS	50% / 50% Mixture of Class A and B Stone	\$25.00	\$12,400
Washed Stone (57)	35	TONS	Washed Gravel	\$25.00	\$875
Filter Fabric, Type II	1620	SY	Type II Fabric, Non-woven, 10 FT Wide Roll	\$0.50	\$810
Root Wads	70	ROOT WADS	Trees Should be a Minimum of 10 Inch Diameter with ~ 8 Feet of Trunk Attached to Root Wad	----	\$0
Logs	40	LOGS	Minimum 10 Inch Diameter, 20 Feet Long	----	\$0
Transplants	To be Determined	EACH	Cane and Sapling Transplants for Streambank Stabilization	----	\$0
Silt Fence	17,200	FT		\$0.20	\$3,440
<b>Total Material Costs</b>					<b>\$103,501</b>

<b>Total Construction Cost Estimate</b>	<b>\$585,001</b>
---	------------------

1. Sketch location map,
2. Typical sections,



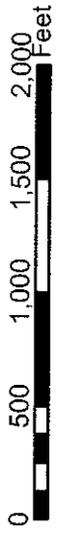
Project Location Map  
Towalliga River Mitigation Bank



Georgia Department of Transportation  
Office of Environment  
3993 Aviation Circle  
Atlanta, Georgia 30336-1593

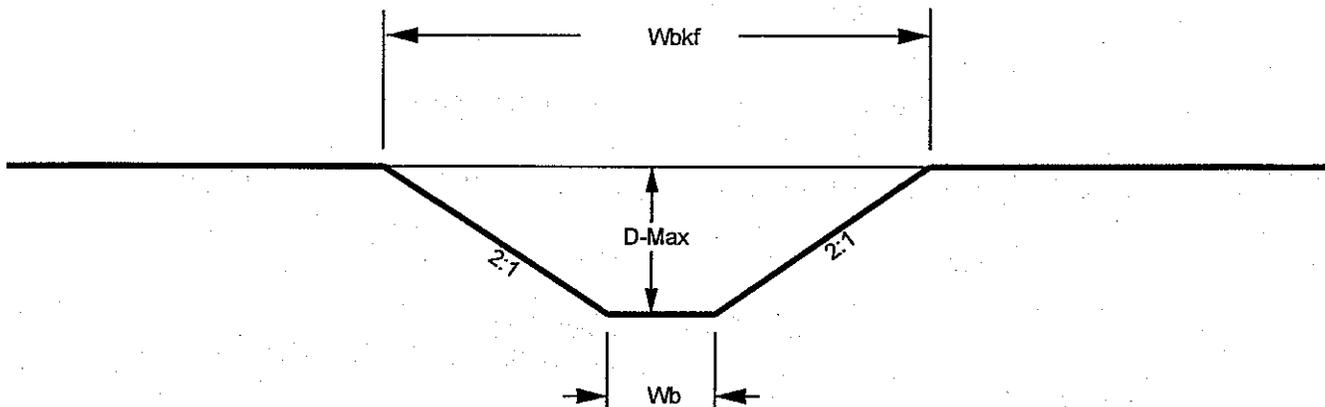
**BUCK**  
ENGINEERING

8000 Regency Parkway  
Cary, North Carolina 27511

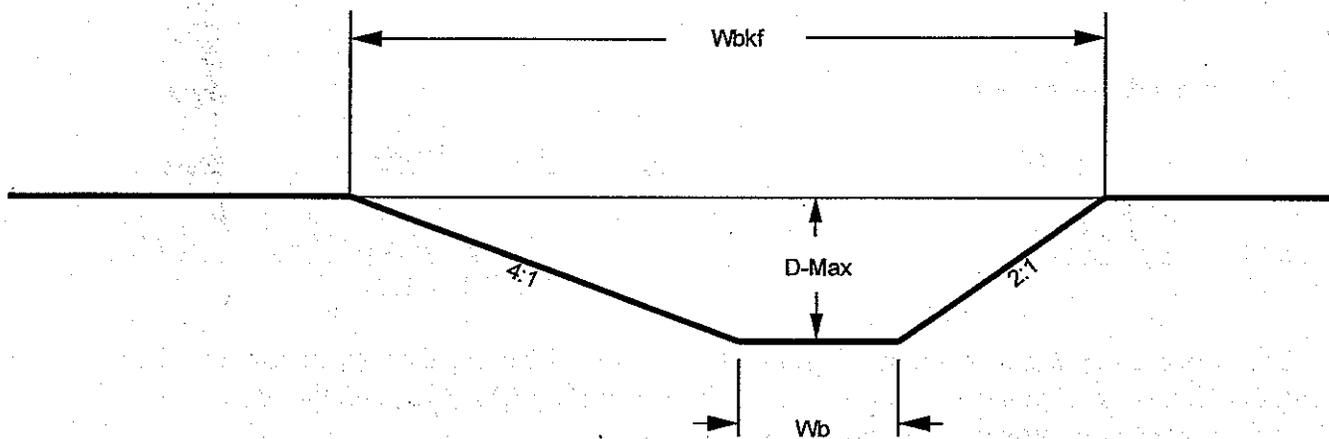


# TYPICAL RIFFLE AND POOL FOR TOWALIGA REACH 1 AND 2, & UNNAMED TRIBUTARIES 1 AND 2

## RIFFLE



## POOL



TOWALIGA REACH 1		TOWALIGA REACH 2		UNNAMED TRIBUTARY 1		UNNAMED TRIBUTARY 2	
<u>RIFFLE</u>	<u>POOL</u>	<u>RIFFLE</u>	<u>POOL</u>	<u>RIFFLE</u>	<u>POOL</u>	<u>RIFFLE</u>	<u>POOL</u>
25.0'	31.0'	27.9'	35.0'	12.7'	17.0'	19.3'	24.0'
2.1'	2.4'	2.3'	2.7'	1.1'	1.3'	1.6'	1.9'
2.6'	3.7'	2.9'	4.2'	1.3'	1.9'	2.0'	3.0'
12.0	13.1	12.0	13.0	12.0	13.5	12.0	12.8
51.9ft <sup>2</sup>	73.6ft <sup>2</sup>	64.8ft <sup>2</sup>	94.1ft <sup>2</sup>	13.5ft <sup>2</sup>	21.5ft <sup>2</sup>	31.1ft <sup>2</sup>	45.0ft <sup>2</sup>
14.4'	8.8'	16.1'	9.8'	7.3'	5.6'	11.1'	6.0'

WIDTH OF BANKFULL (Wb<sub>kf</sub>)  
 AVERAGE DEPTH  
 MAXIMUM DEPTH (D-max)  
 WIDTH TO DEPTH RATIO (b<sub>kf</sub> W/D)  
 BANKFULL AREA (A<sub>b<sub>kf</sub></sub>)  
 BOTTOM WIDTH (W<sub>b</sub>)

**DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA**

*Office of Environment & Location*

**PROJECT CONCEPT REPORT**

Project Number: CSSTP-0006-00(307)

County: Henry

P. I. Number: 0006307

Federal Route Number: N/A

State Route Number: N/A

Recommendation for approval:

DATE 12-8-03

Steph C. Wiedl  
Project Manager

DATE 12/8/03

Harvey D. Kepler /SBK  
Office Head

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DATE 12/31/03

Joseph P. Pallodi /cjc  
State Transportation Planning Administrator

DATE \_\_\_\_\_

Financial Management Administrator

DATE \_\_\_\_\_

State Traffic Safety and Design Engineer

DATE \_\_\_\_\_

District Engineer - Chamblee

DATE \_\_\_\_\_

Project Review Engineer

DATE \_\_\_\_\_

State Road and Airport Design Engineer

**DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA**

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\_\_\_\_\_  
State Transportation Planning Administrator

DATE \_\_\_\_\_

\_\_\_\_\_  
Financial Management Administrator

DATE \_\_\_\_\_

\_\_\_\_\_  
State Traffic Safety and Design Engineer

DATE \_\_\_\_\_

\_\_\_\_\_  
District Engineer - Chamblee

DATE 12-29-03

David J. Mullery  
Project Review Engineer

DATE \_\_\_\_\_

\_\_\_\_\_  
State Road and Airport Design Engineer