

CONSTRUCTION NOTES

- Construction shall conform to all applicable federal, state, and local codes and ordinances.
- Underground utilities shall be physically located by the contractor prior to construction. Contact "Miss Utility", #811 or (1-800-552-7001) and all utility operators prior to commencing construction. Relocate said utilities as required.
- The contractor shall visit the site and verify existing conditions prior to starting construction.
- The contractor shall provide adequate means of cleaning trucks and/or other equipment of soil, mud, and any other loose debris prior to entering the VDOT right-of-way. It is the contractor's responsibility to clean streets and alley dust and to take whatever measures necessary to insure that the road is maintained in a clean, mud, and dust free condition at all times.
- The contractor shall stockpile backfill material within the area of disturbance in order to minimize damage to the 50' RPA buffer.
- Immediately upon completion of construction, all staging areas shall be restored to their preconstruction condition through grading and/or permanent seeding as required.



VICINITY MAP
SCALE 1"=1000'

OWNER INFORMATION

SAMUEL F. & ALICE P. GOULDTHORPE
P.O. BOX 636
DAHLGREN, VA 22448

SITE INFORMATION

6004 PAYNE DRIVE
POTOMAC DISTRICT TAX MAP 18A1-1
PARCEL 105
KING GEORGE COUNTY, VA
PARCEL AREA: 1.218 Ac ±(FROM PLAT)

GENERAL NOTES

- THIS PLAN DOES NOT REPRESENT A CURRENT FIELD SURVEY. SITE BOUNDARIES BASED UPON PLAT, DATED AUGUST 17, 2011, BY DEPUTY LAND SURVEYING, INC.
- WETLANDS LINE & OTHER SITE FEATURES FROM MEASUREMENTS TAKEN BY BAYSHORE DESIGN LLC
- CONTRACTOR SHALL CONTACT "MISS UTILITY", #811 OR 1-800-552-7001, AND VERIFY LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO ANY EXCAVATION.
- PROPERTY SERVED BY PUBLIC SEWER SYSTEM

BANK STABILIZATION SITE PLAN

PERMIT NOTES

- 08-RP-19 from Army Corps of Engineers issued 04/03/2012, permit # NAO 2012-00575
- Virginia Marine Resources Commission permit issued, see VMRC #12-0400

WATER QUALITY IMPACT ASSESSMENT

The area of disturbance is a steep bank covered with thick underbrush. To the west is Williams Creek. To the east for 200' is a grassed lawn with a few scattered large trees. Beyond the lawn is flat woodland. To the north and south sides are sloping woodlands. The area is composed of Tetotum fine sandy loam soils. Tetotum soils have a slow infiltration rate when thoroughly wet and are classified in hydrologic group C. There will be no disturbance of wetlands or disruptions of the existing hydrology. The proposed timber bulkhead and bank grading have been designed to eliminate the bank erosion. The proposed 3 to 1 slope grading has been designed to preserve the existing house and stabilize the bank face. There will be clean washed stone placed behind the bulkhead and any additional required fill will come from a nearby borrow pit. There will be no change in runoff pollutant loads. The 2397 sf of land disturbance is being mitigated by 6 vegetative establishment units. The proposed 3 to 1 slope will reduce the stormwater runoff velocity as compared to the current steeply sloping bank.

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 - WATER QUALITY IMPACT ASSESSMENT
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- OVERALL SITE FEATURES
 - EXISTING AND PROPOSED CONTOUR LINES
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APPROVALS

AGENT FOR KING GEORGE COUNTY GOVERNING BODY DATE

PROPERTY OWNERS SIGNATURE

DATE



COVER SHEET

PROJECT: BANK STABILIZATION SITE PLAN
CLIENT: SAMUEL F. & ALICE P. GOULDTHORPE

JOB #
D 909

DATE
10/04/12

DRAWN BY
JJM

SCALE
AS NOTED

BAYSHORE DESIGN, LLC
PH. 804/472-4439 FAX. 804/472-3036

PO BOX 339 KINSALE, VA. 22488

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BUFFER ESTABLISHMENT LANDSCAPE PLAN

AREA OF LAND DISTURBANCE 2397 SF
 DIVIDE THE SF OF LAND DISTURBANCE BY 400 SF TO ESTABLISH THE NUMBER OF REPLACEMENT UNITS.
 2397 SF / 400 SF = 6 UNITS

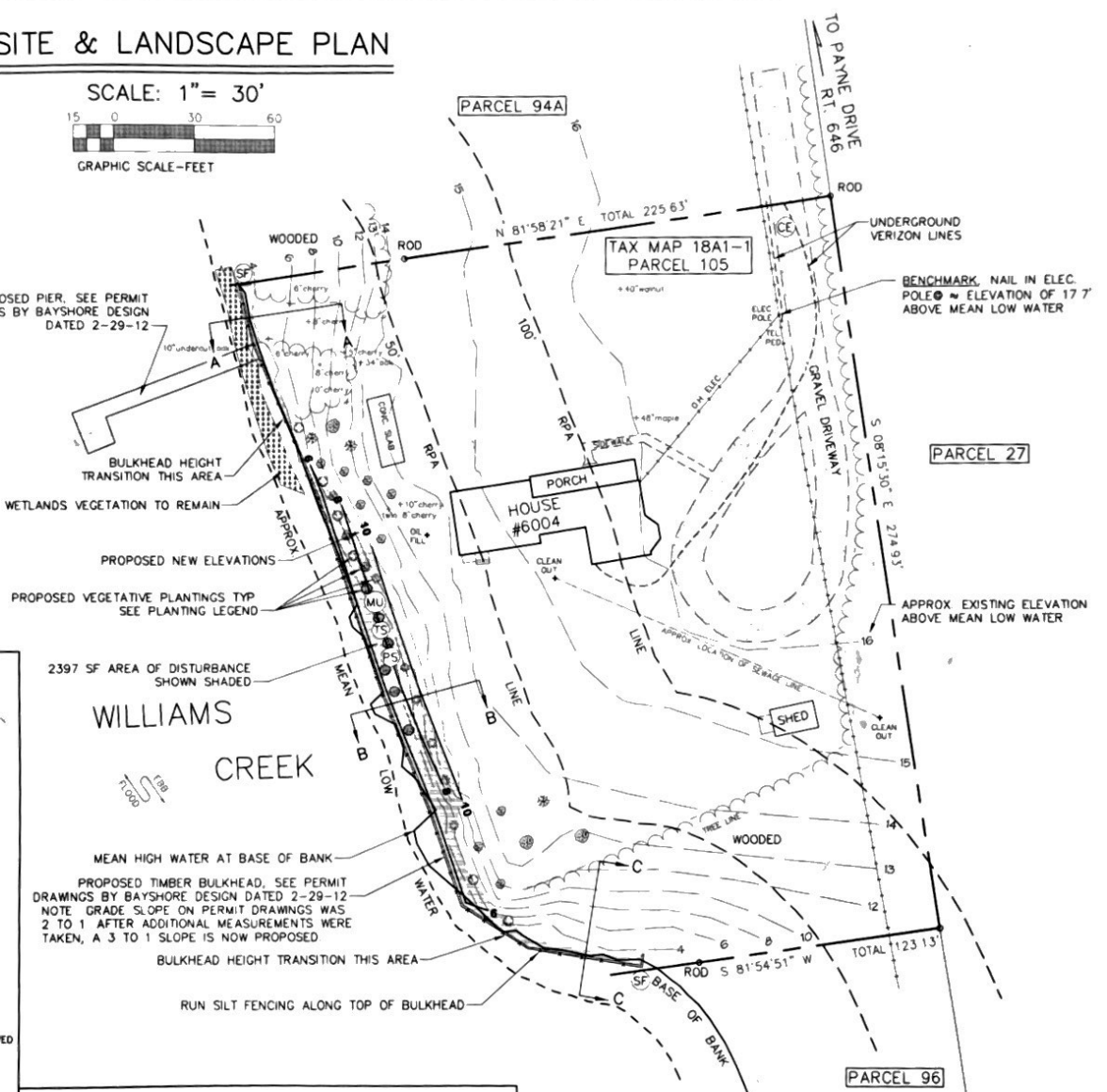
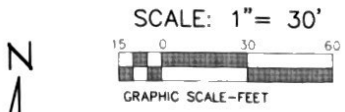
SITE SPECIFIC REVEGETATION REQUIREMENTS
 INSTALL THE FOLLOWING FOR EACH OF THE SIX UNITS:

ONE CANOPY TREE AT 1 5'- 2' CALIPER OR ONE 6' TALL EVERGREEN PLUS
 TWO UNDERSTORY TREES AT 0.75'- 1.5' CALIPER PLUS
 THREE SHRUBS AT 15'- 18" IN HEIGHT

- PROPOSED PLANTING**
- 6 CANOPY TREES
 - 3 SASSAFRAS (SASSAFRAS ALBIDUM)
 - 3 AMERICAN HOLLY (ILEX OPACA)
 - 12 UNDERSTORY TREES
 - 12 DOGWOOD (CORNUS FLORIDA)
 - 18 SHRUBS
 - 6 WILD HYDRANGEA (HYDRANGEA ARDRESCENS)
 - 6 SOUTHERN WAX MYRTLE (MYRICA CERIFERA)
 - 6 SWAMP AZALEA (RHODODENDRONA VISCOSUM)

NOTES:
 FOR PLANT INSTALLATION PROCEDURES REFER TO PAGE C-1 OF APPENDIX C OF THE RIPARIAN BUFFER MODIFICATION & MITIGATION GUIDANCE MANUAL, AND THE FOLLOWING NOTES:
 A. ALL TREES, SHRUBS AND GROUND COVER SPECIFIED FOR BUFFER ENCROACHMENT MITIGATION ARE TO BE PLACED WITHIN THE 50' BUFFER AREA.
 B. PLANTS INSTALLED SHALL BE IN GOOD CONDITION AND MAINTAINED BY THE OWNER. PLANTS WHICH DIE WITHIN THE FIRST YEAR OF PLANTING SHALL BE REPLACED.
 C. PERMANENT SEEDING SHALL BE WITH NATIVE GRASSES SUITABLE FOR THE SLOPE.
 D. SPECIFIC PLANT LOCATIONS, SPECIES AND GROUPINGS MAY BE MODIFIED FROM THAT SHOWN ON THE PLAN IN ACCORDANCE WITH THE RIPARIAN BUFFER MODIFICATION AND MITIGATION GUIDANCE MANUAL AND WITH THE APPROVAL OF KING GEORGE COUNTY.

SITE & LANDSCAPE PLAN



2397 SF AREA OF DISTURBANCE SHOWN SHADED

WILLIAMS CREEK

MEAN HIGH WATER AT BASE OF BANK

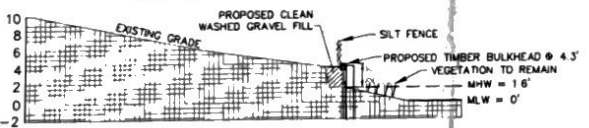
PROPOSED TIMBER BULKHEAD, SEE PERMIT DRAWINGS BY BAYSHORE DESIGN DATED 2-29-12
 NOTE: GRADE SLOPE ON PERMIT DRAWINGS WAS 2 TO 1 AFTER ADDITIONAL MEASUREMENTS WERE TAKEN, A 3 TO 1 SLOPE IS NOW PROPOSED

BULKHEAD HEIGHT TRANSITION THIS AREA

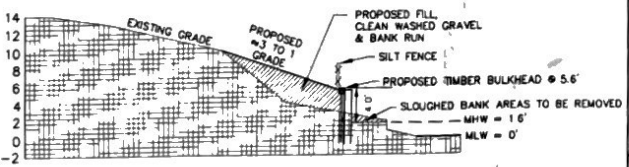
RUN SILT FENCING ALONG TOP OF BULKHEAD

BANK SECTIONS

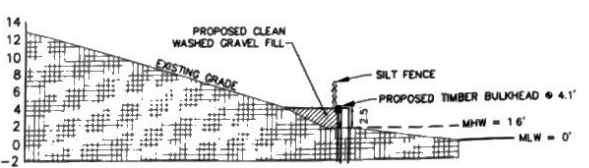
SECTION A-A SCALE 1"=10'



SECTION B-B SCALE 1"=10'



SECTION C-C SCALE 1"=10'



IMPERVIOUS COVER INFORMATION

EXISTING IMPERVIOUS COVER:

HOUSE W/PORCH, SIDEWALK, & STEPS	2194 SF
SHED	197 SF
CONC SLAB	229 SF
GRAVEL DRIVEWAY & LOOP	3493 SF
TOTAL	6113 SF

SITE AREA (FROM PLAT) 1: 218AC 53056 SF

EXISTING IMPERVIOUS COVER: 6113/53056 = 11.5%

- PLANTING LEGEND**
- ⊙ = CANOPY TREE (3) SASSAFRAS - SASSAFRAS ALBIDUM
 - ⊙ = CANOPY TREE (3) AMERICAN HOLLY - ILEX OPACA
 - ⊙ = UNDERSTORY TREE (12) DOGWOOD - CORNUS FLORIDA
 - ⊙ = SHRUB (6) WILD HYDRANGEA - HYDRANGEA ARDRESCENS
 - ⊙ = SHRUB (6) SOUTHERN WAX MYRTLE - MYRICA CERIFERA
 - ⊙ = SHRUB (6) SWAMP AZALEA - RHODODENDRONA VISCOSUM

SITE AND LANDSCAPE PLAN AND BANK SECTIONS

PROJECT: BANK STABILIZATION SITE PLAN
 CLIENT: SAMUEL F. & ALICE P. GOULDTHORPE
 JOB # D 909
 DATE 10/04/12
 DRAWN BY JUM
 SCALE AS NOTED
BAYSHORE DESIGN, LLC
 PO BOX 339 KINSALE, VA. 22488 PH. 804/472-4439 FAX. 804/472-3036
 SHEET 2 of 3

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MINIMUM STANDARDS

MS-1 Permanent or temporary soil stabilization shall be applied to denuded areas within seven days after final grade is reached on any portion of the site. Temporary soil stabilization shall be applied with seven days to denuded areas that may not be at final grade but will remain dormant (ungraded) for longer than 30 days. Permanent stabilization shall be applied to areas that are to be left dormant for more than one year.

MS-2 During construction of the project, soil stockpiles shall be stabilized or protected with permanent staking measures. The applicant is responsible for the temporary protection and stabilization of all soil stockpiles on site as well as at the off site borrow pit.

MS-3 A permanent vegetative cover shall be established on denuded areas not otherwise specified. See Vegetative Practices. Permanent seeding, for seeding specifications and rates. Permanent vegetation will not be considered established until a ground cover is achieved that in the opinion of the local authority is permanent.

MS-4 Seedling biomass and topsoil, permanent dikes, sediment barriers and other measures intended to trap sediment shall be constructed as a first step in any land-disturbing activity and shall be made functional before topsoil and disturbance takes place.

MS-5 Stabilization measures shall be applied to earthen structures such as dams, dikes and diversions immediately after installation.

MS-6 Sediment traps and sediment basins shall be designed and constructed based upon the total drainage area to be served by the trap or basin.

MS-7 Cut and fill slopes shall be designed and constructed in a manner that will minimize erosion. Slopes that are found to be eroding excessively within one year of permanent stabilization shall be provided with additional slope stabilizing measures until the problem is corrected.

MS-8 Whenever water seeps from a slope face, adequate drainage or other protection shall be provided.

MS-9 All storm sewer inlets that are made operable during construction shall be protected so that sediment-carrying water cannot enter the conveyance system without first being filtered or otherwise treated to remove sediment.

MS-10 Before newly constructed storm conveyance channels are made operational, adequate outlet protection and any required temporary or permanent channel lining shall be installed in both the conveyance channel and receiving channel.

MS-12 When work in a live watercourse is performed, precautions shall be taken to minimize encroachment, control sediment transport and stabilize the work area to the greatest extent possible during construction. Nonerodible material shall be used for the construction of cofferdams and cofferdams. Earthen fill may be used for these structures if armored by nonerodible cover materials.

MS-13 When a live watercourse must be crossed by construction vehicles more than twice in any six-month period, a temporary vehicular stream crossing constructed of nonerodible material shall be provided.

MS-14 All applicable federal, state and local regulations pertaining to working in or crossing live watercourses shall be met.

MS-15 The bed and banks of a watercourse shall be stabilized immediately after work in the watercourse is completed.

MS-16 Underground utility lines shall be installed in accordance with the following standards in addition to other applicable criteria.

(b) No more than 500 linear feet of trench may be opened at one time.

(c) Excavated material shall be placed on the uphill side of trenches.

(d) Eminent from dewatering operations shall be filtered or dumped through a sediment trap, sediment trapping device, or both, and discharged in a manner that does not adversely affect flowing streams or off-site property.

(e) Erosion and promote stabilization.

(f) Application shall be accomplished in accordance with these regulations.

MS-17 Where construction vehicle access routes intersect paved public roads, provisions shall be made to minimize the transport of sediment by vehicle. Trucking onto the paved surface where sediment is transported onto a public road surface, the road shall be cleaned thoroughly at the end of each day. Sediment shall be removed from the roads by hosing or sweeping and transported to a sediment control disposal area. Street washing shall be allowed only after sediment is removed in this manner.

MS-18 All temporary erosion and sediment control measures shall be removed within 30 days after final site stabilization or after the local program administrator or approved engineer has authorized by the local program administrator or approved engineer that the disturbed soil areas resulting from the disposition of temporary sediment control measures shall be permanently stabilized to prevent further erosion and sedimentation.

MS-19 Properties and waterways downstream from development sites shall be protected from sediment deposition, erosion and damage due to increases in volume, velocity and peak flow rate of storm runoff. This project does not increase the volume, velocity, or peak flow rate of stormwater runoff, thereby precluding resulting sediment deposition, erosion, or other damage.

INTRODUCTION

This plan is prepared in accordance with the Virginia Erosion and Sediment Control (YESC) Handbook.

The property is owned by Samuel F. and Alice P. Goldthorpe, P.O. Box 636, Dayton, VA 22446. The contact person is Alice Goldthorpe. (telephone number (540)653-5428).

NARRATIVE

The purpose of this project is to stabilize the eroding shoreline. This involves the installation of 335' of timber bulkhead with two return walls. Portions of the bank will be graded and filled to a 3 to 1 slope. See drawings by Dwygmore dated 2-29-12 for additional construction details. There will be 2397 sq ft of land disturbance. Existing and proposed impervious cover is 11.5%.

PROJECT DESCRIPTION

Operations shall be sequenced as follows:

- (1) Install the timber bulkhead.
- (2) Install the timber bulkhead.
- (3) Back fill and grade behind the wall.
- (4) Back fill and grade behind the wall.
- (5) Excavate proposed planting.
- (6) Permanently seed and mulch all disturbed areas.
- (9) - Permanent Seeding - 3.32

Note: In order to reduce the area of upland land disturbance, the installation of the timber bulkhead and the majority of the grading work is to be from a borrow located in Williams Creek.

EXISTING SITE CONDITIONS

The area of disturbance is currently covered in lawn grass up to the eroded bank face. The face drops down a west facing slope to the water. There is thick underbrush covering the bank face.

MS-11 Before newly constructed storm conveyance channels are made operational, adequate outlet protection and any required temporary or permanent channel lining shall be installed in both the conveyance channel and receiving channel.

MS-12 When work in a live watercourse is performed, precautions shall be taken to minimize encroachment, control sediment transport and stabilize the work area to the greatest extent possible during construction. Nonerodible material shall be used for the construction of cofferdams and cofferdams. Earthen fill may be used for these structures if armored by nonerodible cover materials.

MS-13 When a live watercourse must be crossed by construction vehicles more than twice in any six-month period, a temporary vehicular stream crossing constructed of nonerodible material shall be provided.

MS-14 All applicable federal, state and local regulations pertaining to working in or crossing live watercourses shall be met.

MS-15 The bed and banks of a watercourse shall be stabilized immediately after work in the watercourse is completed.

MS-16 Underground utility lines shall be installed in accordance with the following standards in addition to other applicable criteria.

GENERAL NOTES

1 Unless otherwise indicated, all vegetation and structural erosion and sediment control practices will be constructed and maintained according to minimum standards and specifications of the Virginia Erosion and Sediment Control Handbook and Virginia Regulations VR 625-02-00. Erosion and Sediment Control Regulations.

2 Prior to commencing land disturbing activities in areas other than indicated on these plans (including but not limited to, off-site borrow or waste areas), the contractor shall submit a supplementary erosion control plan to the County for review and approval. By the plan approving authority.

3 The plan approving authority must be notified one week prior to commencement of land disturbing activity, and one week prior to completion of the project.

4 The contractor shall inspect all erosion control measures periodically and after each runoff producing rainfall event. Any necessary repairs or cleanup to maintain the effectiveness of the erosion control devices shall be made immediately.

5 A copy of this Erosion and Sediment Control Plan shall be maintained on the site throughout the course of development and construction.

6 The contractor is responsible for installation of any additional erosion control measures necessary to prevent erosion and sedimentation as determined by the plan approving authority.

7 Following soil disturbance, permanent or temporary stabilization shall be completed within seven calendar days.

EROSION AND SEDIMENT CONTROL PLAN NOTES

EROSION AND SEDIMENT CONTROL MEASURES

All vegetative and structural erosion and sediment control practices shall be constructed and maintained according to the minimum standards and specifications of the Virginia Erosion and Sediment Control Handbook unless otherwise noted or approved by a variance.

STRUCTURAL PRACTICES

(SF) - Silt Fence Barrier - 3.05 See sheet 2 for location.

(CE) - Construction Entrance - 3.02 See sheet 2 for location.

VEGETATIVE PRACTICES

See sheet 2 for the location of each vegetative practice.

Where vegetative practices are to be applied, YESC Handbook soil test will be conducted in these areas in accordance with the approved PH values less than 6 and shall be made functional before topsoil and disturbance takes place.

MANAGEMENT STRATEGIES

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5 A copy of this Erosion and Sediment Control Plan shall be maintained on the site throughout the course of development and construction.

6 The contractor is responsible for installation of any additional erosion control measures necessary to prevent erosion and sedimentation as determined by the plan approving authority.

7 Following soil disturbance, permanent or temporary stabilization shall be completed within seven calendar days.

EROSION & SEDIMENT CONTROL PLAN

CODE	NAME	QUANTITY	UNIT COST	TOTAL
SF	SILT FENCE	340'	\$10.00	\$3,400
CC	CONSTRUCTION ENTRANCE (1 (12' x 84'))	1	\$77.50	\$78.4
PS & M	SEED & MULCH	2397 SF	\$0.06/SF	\$144
NONE	CANOPY TREE	6	\$75.00	\$450
NONE	UNDERSTORY TREE	12	\$50.00	\$600
NONE	SHRUBS	18	\$37.00	\$666
	TOTAL			\$5,644

E & S CONTROL COST ESTIMATE (FOR BIDDING PURPOSES ONLY)

During construction, all erosion and sediment control measures will be checked daily following items will be checked in particular:

- The silt fence barrier will be checked regularly for undermining or deterioration of the fabric. Sediment shall be removed when the level of sediment deposition reaches half way to the top of the barrier.
- The seeded areas will be checked regularly to ensure that a good stand is maintained. Areas will be fertilized, reseeded, and mulched as needed.
- On-site construction is completed, all permanent erosion and sediment control measures will be checked weekly and after each significant rainfall. Any repairs or cleanup necessary to maintain the effectiveness of the erosion control devices shall be made immediately. The following items will be checked in particular:

MAINTENANCE

CRITICAL AREAS

The bank face is the critical erosion area.

SOILS

Soil maps indicate type Ta and TeC2 (Tolium) fine sandy loam soils at this site. The K factor for the soil is 0.28.

STORMWATER RUNOFF CONSIDERATIONS

This project does not increase the volume, velocity, or peak flow rate of stormwater runoff.

PERMANENT STABILIZATION

Stow mulch will be applied over fill slopes which have been brought to final grade and have been seeded to protect the slopes from rain and gully erosion and to allow seed to germinate properly. In all seeding operations, seed, fertilizer and weeds will be applied prior to mulching. The mulch shall be clean straw, free from weeds and coarse matter, spread at a rate of 2 tons per acre, and anchored to the ground immediately after application, preferably with a mulch-anchoring tool (wetpaw).

There is no potential for off site scattered single family dwellings and woodland. There is no potential for off site damage.

ADJACENT AREAS

The west is bounded by Williams Creek. To the north, east and south are scattered single family dwellings and woodland. There is no potential for off site damage.

OFF-SITE AREAS

If materials if required, will come from Wilker sand and Stone, 12542 James Madison Parkway, King George.

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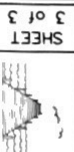
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BAYSHORE DESIGN, LLC
 PO BOX 339 KINSALE, VA 22488 PH. 804/472-4439 FAX. 804/472-3036

PROJECT: BANK STABILIZATION SITE PLAN
 CLIENT: SAMUEL F. & ALICE P. GOLDTHORPE

JOB # DATE 909 10/04/12
 DRAWN BY SUM N/A
 SCALE
 SHEET 3 OF 3