

County Executive's Office
865-376-5578

Purchasing Office
865-376-4317

**Office of the County Executive
Roane County Courthouse
Kingston, Tennessee 37763**

INVITATION AND INSTRUCTIONS TO BIDDERS

You are invited to bid on the following item(s). Specifications and bid forms may be obtained at the Roane County Courthouse in the Purchasing Department.

**REQUEST FOR PROPOSAL
SHORELINE STABILATION – VARIOUS LOCATIONS
DECEMBER 29, 2016**

**PRE-PROPOSAL CONFERENCE
THURSDAY, DECEMBER 15, 2016
10:00 A.M.
ROANE COUNTY PURCHASING OFFICE
200 EAST RACE STREET, SUITE #3
KINGSTON, TN 37763**

Bids will be opened at 2:00 p.m. on the date stated above in the office of the Purchasing Agent, and you are invited to be present.

Roane County reserves the right to reject any and or all bids.

Bids shall be made on the forms provided by the Purchasing Department. No bids may be withdrawn after the receipt of bids.

For questions or additional information contact the Purchasing Department.

Lynn Farnham, CPPO, CPPB
Purchasing Agent

This is an Invitation to Bid and publication is requested in the **LEGAL AD** section as soon as possible.

Please run one time only in the Roane County News and supply a copy of newspaper clipping, invoice and publisher's affidavit to Roane County Purchasing Department.

*Thank you,
Lynn Farnham*

ATTENTION: LEGAL AD

Roane County is requesting proposals for the good(s) and/or service(s) listed below, subject to the terms and conditions of the Request for Proposal (RFP), the accompanying specifications, and the Roane County Purchasing Manual.

If this is a request for services, disregard any reference to product information.

At the appointed time proposals will be publicly opened in the office of the Roane County Purchasing Agent at the address below. Proposals arriving in the Purchasing Department past the appointed date and time will be considered late and will not be opened.

Deliver Proposals To:

ROANE COUNTY PURCHASING DEPARTMENT
200 EAST RACE STREET, SUITE #3
KINGSTON, TENNESSEE 37763

**Proposal Number: 2017-04-171
SHORELINE STABLIZATION**

**PRE-PROPOSAL CONFERENCE, THURSDAY, DECEMBER 15, 2016 AT 10:00 A.M.
ROANE COUNTY COURTHOUSE**

Open Date & Time: December 29, 2016 at 2:00 p.m. (Eastern Time Zone)

The Proposal Envelope must show the Proposal Number, Name & Opening Date.

PURCHASING CONTACT INFORMATION

**Lynn Farnham, CPPO, CPPB
Purchasing Agent
Phone: 865-376-4317
Fax: 865-376-4318
Email: lynn.farnham@roanecountytn.gov**

GENERAL TERMS & CONDITIONS

1. Attached are instructions and conditions for submitting a proposal for Roane County Government. The objective of this proposal is to select suppliers in such a manner as to provide for open and free competition and comparability.

PROPOSAL PREPARATION & SUBMISSION

1. All proposals shall be in accordance with the instructions to proposers and specifications included in this RFP. Specifications are intended to be open and non-restrictive.
2. The use of the name of a manufacturer, brand, model or make used in describing an item does not restrict the proposer to that manufacturer. Others will be considered if they meet or exceed the items specified. When an alternate manufacturer, brand, model or make will be proposal, five (5) days prior to the proposal the proposer must submit documents to the Purchasing Agent, for evaluation of the product. Roane County will determine if the item does meet or exceed the item as specified.
3. It shall be the sole responsibility of the proposer to make certain that all proposals in proper form are submitted to the Purchasing Department as described below.
4. All original forms must be signed by a person with authority to bind the proposal. The proposal must be sealed in an envelope that is labeled according to the directions stated below.
5. On the outside of the envelope/package mark the proposal as follows:
 - Vendor Name & Address
 - Proposal Number
 - Proposal Date & Time
6. The proposal must then be in a sealed envelope/package mailed or delivered to the following address:

Roane County Purchasing Department
200 East Race Street, Suite #3
Kingston, Tennessee 37763

Please note that Roane County does not receive a guaranteed delivery time for express mail and/or packages; please mail accordingly.

7. Sealed written proposals will be received at the time and place specified on the RFP. Postmark on the proposal by this date will not suffice. Proposal must be received on or before the date and time stated. Faxed proposal documents will not be accepted.

LATE RECEIPT OF THE PROPOSAL

1. The proposal and modifications or withdrawals thereof received after the time set for opening will not be considered, unless they are received before the award is made and it is determined by Roane County that failure to arrive on time was due solely to a delay in delivery for which the proposer has no responsibility.
2. Proposals must be in the Purchasing Department prior to 2:00 p.m. on the appointed date. Time will be determined by the clock in the Roane County Purchasing Department and once Purchasing Agent/or their designee determines the time is 2:00 p.m., no other proposals will be accepted.

RESTRICTIVE OR AMBIGUOUS SPECIFICATIONS

1. It is the responsibility of the proposer to review the entire RFP document and to notify the Purchasing Agent if the RFP is formulated in a manner that would unnecessarily restrict competition or if it is ambiguous in what is being requested.
2. Pursuant to TCA §12-4-126, questions regarding the specifications or proposal procedures must be received by the Purchasing Agent and/or designer no less than ninety-six (96) hours before the bid opening

date. No addenda will be issued within less than forty-eight (48) hours of the bid opening day, excluding weekends and legal holidays designated in §15-1-101 unless the proposal opening is extended for a reasonable time as determined by the Purchasing Agent, which shall not be less than forty-eight (48) hours excluding weekends and legal holidays designated in §15-1-101, to allow for any necessary changes to the RFP documents and to allow responders to resubmit their responses accordingly.

3. Any questions concerning this RFP are to be in writing either by fax or email to the Purchasing Department. Questions will be answered via addenda. Information obtained from any office other than the Purchasing Office is not to be considered binding.

PROPOSAL OPENING & ACCEPTANCE OF PROPOSAL

1. Proposal pricing will be read aloud at the discretion of the Purchasing Agent. Proposals will also be examined for compliance with specification and conditions outlined in the proposal document.
2. Consideration will be given to all proposals properly submitted. Proposals will receive appropriate confidentiality before awarding. Upon award, proposal documents and tabulations will be available for review. Errors discovered after public opening cannot be corrected, and the proposer will be bound to honor proposal as submitted.
3. The contract will be awarded in writing to the most responsive proposer whose proposal conforms best to the RFP will be most advantageous to Roane County. The evaluation of criteria, cost, and other factors will be taken into consideration. It is the intent of Roane County to involve and utilize the best product/services at the best prices and provide small and minority firms, women's business enterprises and labor surplus area firms with increased opportunity to do business with the county. However, currently there are no set asides for small or minority firms.
4. Roane County reserves the right to accept or reject any or all proposals and to waive informalities and minor irregularities in the proposals received. All proposers will be notified in writing of the proposal award generally within ten (10) days of proposal opening unless unforeseen circumstances arise or special conditions exist.

EVALUATION REVIEW

1. Roane County reserves the right to use all pertinent information that might affect the County's judgment as to the appropriateness of an award to the best-evaluated proposer. This information may be appended to the proposal evaluation process results. Information on a service provider from reliable sources, and not within the service provider's proposal, may also be noted and made part of the evaluation file. Roane County shall have sole responsibility for determining a reliable source. Roane County reserves the right to conduct written and/or oral discussions/interviews after the proposal opening. The purpose of such discussions/interviews is to provide clarification and/or additional information to make an award that is in the best interest of Roane County.
2. Evaluation criteria will be determined on each RFP.

PROTEST PROCEDURE

1. If a prospective vendor does not agree with the proposal award, they have the right to protest. Disputes arising from the award of this proposal must be submitted in writing to the Roane County Purchasing Department no later than seven (7) days from date of proposal award. The steps for dispute resolution may include:
 - A meeting with the Purchasing Agent, the requisitioning department's manager and representatives from the disputing party to discuss and resolve the complaint.
 - Information from the aforementioned meeting will be forwarded to the County Attorney for review.

- A written decision letter stating the reasons for the decision will be prepared by the Purchasing Agent and submitted in writing to the protestor and all parties involved.
- Purchases will not be allowed under this procurement until a final decision is rendered.
- In the event that purchases must be made before a final decision is rendered, the emergency purchase procedures will be used.

APPROPRIATION

1. In the event no funds are appropriated by Roane County for the goods or services in any fiscal year or insufficient funds exist to purchase the goods or services, then the contract shall expire upon the expenditure of previously appropriated funds or the end of the current fiscal year, whichever occurs first, with no further obligations owed to or by either party.

INSURANCE

1. The contractor will maintain, at their expense adequate insurance coverage to protect them from claims arising under the Worker's Compensation Act, from claims for damages resulting from bodily injuries and damage to their property, for Bodily Injury and Property Damage Liability in the amount of no less than \$1,000,000, for Products and Completed Operations Liability of no less than \$1,000,000 and from claims for damage to any Roane County property. Additional insurance requirements may be listed any Special Terms & Conditions or in the Bid Specifications. This insurance company shall have a Best's rating of A or better. Any deviations from the above requirements must be disclosed in the bid submission.
2. The successful bidder shall furnish a Certificate of Insurance issued by their insurance company showing that Roane County as an additional insured. Carrier will assume full common liability of all shipments.

COMPLIANCE WITH ALL LAWS

1. Contractor is assumed to be familiar with and agrees to observe and comply with all federal, state, and local laws, statutes, ordinances, and regulations in any manner affecting the provision of goods and/or services, and all instructions and prohibitive orders issued regarding this work and shall obtain all necessary permits.

GOVERNING LAW

1. This contract shall be governed by the laws of the State of Tennessee, and all obligations of the parties are performable in Roane County, Tennessee. The Courts in Roane County shall have exclusive and concurrent jurisdiction of any disputes which arise hereunder.

BUSINESS LICENSES

1. Vendors located in Tennessee are required to have a current business license issued by the State of Tennessee at the time the bids are submitted. Vendors located outside Tennessee are required to obtain a business license issued by the State of Tennessee.
2. A Business Tax & License Affidavit is required to be submitted with the bid.

INDEMNIFICATION/HOLD HARMLESS

1. Contractor shall indemnify, defend, save and hold harmless all departments of Roane County Government and/or the Roane County Board of Education, its officers, agents and employees from all suits, claims, actions or damages of any nature brought because of, arising out of, or due to breach of the agreement by Contractor, its subcontractors, supplier, agents or employees or due to any negligent act or occurrence or any omission or commission of the contractor, its subcontractors, suppliers, agents or employees until the contract terminates.

VENDOR PERFORMANCE

1. If the contractor fails in full or part to perform or comply with any provision of this Contract or the terms or conditions of any documents referenced and made a part hereof, Roane County may terminate this contract, in whole or in part, and may consider such failure or noncompliance a Breach of Contract. Contractors with poor performance will be notified at the time of such performance and be given opportunity to correct the problems. Documentation will be kept on file. Any contractor with continued poor performance will be removed from the potential vendor list for one year.
2. Roane County expressly retains all its rights and remedies provided by law in case of such breach, and no action by Roane County shall constitute a waiver of any such rights or remedies. In the event of termination for default, Roane County reserves the right to purchase its requirements elsewhere, with or without competitive proposal.

BREACH OF CONTRACT

1. A party shall be deemed to have breached the contract if any of the following occurs:
 - Failure to provide products or services that conform to contract requirements.
 - Failure to maintain/submit any report required hereunder.
 - Failure to perform in full or in part any of the other conditions of the contract.
 - Violation of any warranty.

CONTRACT TERMINATION FOR CAUSE

1. If the contractor fails to properly perform its obligations under this contract in a timely or proper manner, or if the contractor violates any terms of this contract, the county shall have the right to terminate the contract and withhold payments in excess of fair compensation for completed services.
2. In the event the contract is terminated for due cause by the county, the county shall have the option of awarding the contract to the next lowest proposer or proposing again.

CONTRACT TERMINATION FOR CONVENIENCE

1. The county may, by written notice to the contractor, terminate this contract without cause for any reason. Said termination shall not be deemed a Breach of Contract by the county. The county must give notice of termination to the vendor at least thirty (30) days prior to the effective date of termination. The contractor shall be entitled to receive compensation for satisfactory, authorized service completed as of the termination date, but in no event shall the county be liable to the contractor for compensation for any service which has not been rendered. Upon such termination, the vendor shall have no right to any actual general, special, incidental, consequential, or any other damages whatsoever of any description or amount.

BOOKS AND RECORDS

1. The contractor shall maintain all books, documents, accounting records and other evidence pertaining to the services provided under this contract and make such materials available at its offices at all reasonable times during the contract period and for three (3) years from the date of the final payment under this agreement for inspection by county or by any other governmental entity or agency participating in the funding of this agreement, or any authorized agents thereof; copies of said records to be furnished if requested. Such records shall include those books, documents and accounting records that represent delivering the services governed by this agreement.

INVOICES AND PAYMENTS

1. Payment will be made within 30 days after receipt of invoice and/or delivery of items included in this Request for Proposal, whichever is later.
2. Roane County Government is not subject to taxation. A tax exemption certificate will be provided upon request.

NONDISCRIMINATION AND NON-CONFLICT STATEMENT

1. Contractor agrees that no person on the grounds of handicap, age, race, color, religion, sex or national origin, shall be excluded from participation in, or be denied benefits of, or be otherwise subjected to discrimination in the performance of this agreement, or in the employment practices of vendor. Contractor shall upon request show proof of such nondiscrimination, and shall post in conspicuous places available to all employees and applicants notices of non-discrimination. Contractor covenants that it complies with the Fair Wage and Hour Laws, the National Labor Relations Act, and other federal and state employment laws as applicable. Contractor covenants that it does not engage in any illegal employment practices.
2. Contractor covenants that it has no public or private interest, and shall not acquire directly or indirectly any interest; that would conflict in any manner with the provision of its goods or performance of its services. The contractor warrants that no part of the total contract amount provided herein shall be paid directly or indirectly to any officer or employee of Roane County as wages, compensation, or gifts in exchange for acting as officer, agent, employee, subcontractor or consultant to contractor in connection with any goods provided or work contemplated or performed relative to the agreement.
3. No employee or member of the Roane County's governing bodies shall participate in the selection or award of a contract if a conflict of interest, real or apparent, would be involved.
4. Officers, employees or officials of the Roane County Government shall neither solicit nor accept gratuities, favors or anything of more than nominal monetary value from vendors or parties to subcontracts.

2017-04-171 – SHORELINE STABILIZATION
VENDOR INFORMATION SHEET
(Please fill out completely)

By completing and signing this form you certify that you are an authorized representative of the company for which you are submitting a bid/proposal and that you have the authority to legally bind your company. Further, by completing and signing this form you certify that you agree to all the terms and conditions of this bid/proposal.

1. Vendor Name _____

2. Address _____

City _____ State _____ Zip Code _____

3. Contact Person (Please Print) _____

4. Telephone Number _____ Fax Number _____

5. Vendor's e-mail address _____

6. Authorizing Signature _____

7. Title of Person Signing Bid _____

8. If addenda were issued, please acknowledge the receipt of: (please write "yes" if you received one)
Addendum 1 _____ Addendum 2 _____ Addendum 3 _____ Addendum 4 _____

9. If applicable, please indicate below if discounts will be allowed for prompt payment or if there is not discount offered:
_____ % Net 10 Days; _____ % Net 20 Days; _____ % Net 30 Days; _____ No Discount

COOPERATIVE PURCHASING - Vendors are to indicate if it is permissible for other governmental agencies in the State of Tennessee to purchase these items or services at the same price. Freight charges may be adjusted to reflect differences in delivery costs to other locations. Please indicate the approval of Cooperative Purchasing.

_____ Yes _____ No

SCHOOL CONTRACTS ONLY

CRIMINAL HISTORY RECORDS CHECK – Do you agree to comply with Public Chapter 587 of 2007 which requires all contractors to facilitate a criminal history check, including fingerprinting, conducted by the Tennessee Bureau of Investigation and the Federal Bureau of Investigation for each employee or subcontractor personnel before permitting the employee or subcontractor personnel to have contact with students or enter school grounds?

_____ Yes _____ No

**2017-04-171 – SHORELINE STABILIZATION
NON –COLLUSION, INDEPENDENT PRICE DETERMINATION,
NON-DISCRIMINATION, NON-DEBARMENT & LOBBYING AFFIDAVIT**

I do hereby certify that this bid is made without prior understanding, agreement, or connection with any corporation, firm, or person submitting a bid for the same materials, supplies, or equipment, and is in all respects fair and without collusion or fraud.

I understand that collusive pricing is a violation of State and Federal law and can result in fines, prison sentences, and civil damage awards and that no collusion with another firm was used in preparation of this bid.

I also certify that this firm does not discriminate against any employee or applicant for employment on the grounds of race, color, national origin or sex; and does not and will not maintain or provide for his employees any segregated facilities at any of its establishments, and further, that the firm does not and will not permit their employees to perform their services at any location under this contract where segregated facilities are maintained.

By submission of this bid, the bidder certifies that neither it or its principals is presently debarred, suspended, proposed for debarment, declared ineligible or voluntarily excluded from participation in this transaction by any Federal or State department or agency.

I further certify that during the Invitation to Bid solicitation and/or during the performance of this contract that neither it nor its principals will participate in lobbying activities in conjunction with this project.

I agree to abide by all terms and conditions of this Invitation to Bid and certify that I am authorized to sign this affidavit for the vendor.

Please indicate which of the following apply to your company. This information is requested for information purposes only. Roane County currently has no policy that allows for set asides or preferences for woman owned or minority owned businesses.

_____ African American Owned
_____ Caucasian Owned
_____ Native American Owned
_____ Other Owned

_____ Asian Owned
_____ Hispanic Owned
_____ Woman Owned

Signature

Title

**2017-04-171 – SHORELINE STABILIZATION
DRUG-FREE WORKPLACE AFFIDAVIT**

STATE OF _____

COUNTY OF _____

The undersigned, principal officer of _____, an employer of five (5) or more employees contracting with Roane County Government to provide construction services, hereby states under oath as follows:

1. The undersigned is a principal officer of _____ (hereinafter referred to as the "Company"), and is duly authorized to execute this Affidavit on behalf of the Company.
2. The Company submits this Affidavit pursuant to T.C.A. § 50-9-113, which requires each employer with no less than five (5) employees receiving pay who contracts with the state or any local government to provide construction services to submit an affidavit stating that such employer has a drug-free workplace program that complies with Title 50, Chapter 9, of the *Tennessee Code Annotated*.
3. The Company is in compliance with T.C.A. § 50-9-113.

Further affiant saith not.

Principal Officer

STATE OF _____

COUNTY OF _____

Before me personally appeared _____, with whom I am personally acquainted (or proved to me on the basis of satisfactory evidence), and who acknowledged that such person executed the foregoing affidavit for the purposes therein contained.

Witness my hand and seal at office this _____ day of _____, 20____.

Notary Public

My commission expires _____.

**2017-04-171 – SHORELINE STABILIZATION
BUSINESS TAX & LICENSE AFFIDAVIT**

Please sign the affidavit below stating that your company does have a Business License and that your Business Taxes are current. Companies located outside the State of Tennessee are required to have a Business License in Tennessee.

The undersigned states that he/she has legal authority to swear this on behalf of _____ (Vendor); and that Vendor is not in any manner in violation of *Tennessee Code Annotated, §5-14-108(l)* which provides that “no purchase shall be made or purchase order or contract of purchase issued for tangible personal property or services by county officials or employees, acting in their official capacity, from any firm or individual whose business tax or license is delinquent”.

Affiant affirms and warrants that Contractor's licenses are currently valid and all business taxes have been paid and are current as of the date of this affidavit. Contractor is licensed and pays business taxes in _____ County, Tennessee.

VENDOR

By: _____

Title: _____

Date: _____

Witness: _____

Date: _____

**2017-04-171 – SHORELINE STABILIZATION
STATEMENT OF QUALIFICATION**

The following statements as to experience and general qualifications of the proposing firm as submitted in conjunction with the Request for Proposal as part thereof and truthfulness and accuracy of information is guaranteed by the proposing firm and included in the evaluation of the proposals.

Name & Address of Proposing Firm:

Telephone_____

Fax Number_____

Number of years proposer has been in this business. _____

Proposing firm must have satisfactorily completed or currently maintained three (3) contracts of similar size in the last five (5) years.

Company _____

Contact Name _____

Telephone _____

Company _____

Contact Name _____

Telephone _____

Company _____

Contact Name _____

Telephone _____

**2017-04-171 – SHORELINE STABILIZATION
REQUEST FOR PROPOSAL
GENERAL INFORMATION**

Specifications for bidding the installation of armored shoreline (rip-rap) at several locations in Roane County.

This project is being done in conjunction with a grant received from the Tennessee Department of Environment & Conservation. All work associated with the project must be in compliance with all federal, state, and local agencies laws and guidelines. Roane County will be responsible for obtaining the permit(s) from the federal and state regulatory agencies.

It is the responsibility of the contractor to determine if a building permit from the Roane County Codes Enforcement Department is required prior to the project starting. If so, the building permit fee will be waived.

REQUIRED DOCUMENTS

The following documents must be returned in the bid envelope:

- Vendor Information Sheet
- Non-Collusion, Independent Price Determination, Non-Discrimination, Non-Debarment & Lobbying Affidavit
- Drug-Free Workplace Affidavit
- Statement of Compliance Certificate of Illegal Immigrants
- Business Tax & License Affidavit
- Statement of Qualifications
- Certificate of Insurance issued by the Contractor's Insurance Company.

CONTRACT

Roane County's Purchase Order and the Terms & Conditions and the Specifications of this Invitation to Bid will serve as the construction contract.

QUESTIONS & ADDENDA

Questions received after 2:00 p.m. on Thursday, December 22, 2016 will not be answered.

No addenda will be issued after Tuesday, December 27, 2016 at 2:00 p.m.

PROPOSAL ACCEPTANCE

In addition to price, experience in dock building and installation, time frame of project completion, and the proposed dock construction will be a factor in awarding a contract.

Price Point Value – 25%

Experience – 25%

Completion – 25%

Proposed Construction – 25%

SCOPE OF WORK

Roane County has been awarded a grant to install several courtesy docks at existing TWRA boat Ramps on Watts Bar, in Roane County. We expect the additional boat traffic that results from this amenity will cause nearby shoreline erosion, unless prevented by stabilization efforts.

We have chosen to focus on the armored shoreline approach to provide this stabilization. Each location will require a customized application of rip-rap and pierced fabric. If, in the bidder's experience, other means are more suitable and cost effective, these alternatives will be considered.

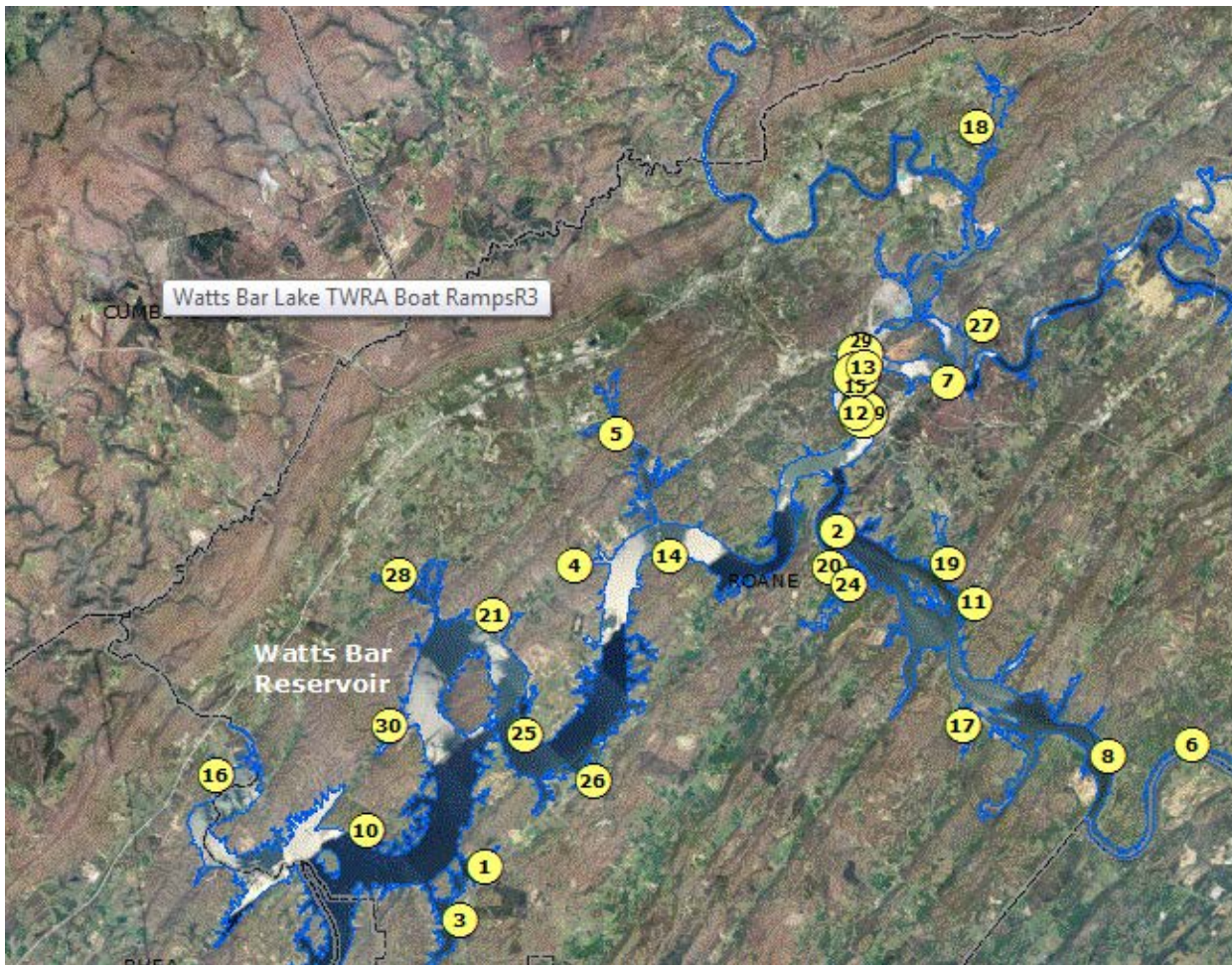
The locations are shown below and will be available for a pre-bid visit by interested parties and Roane County representatives. Installations will be required to meet the requirements described in the attached "Information Needed for Shoreline Projects" or other statutes as necessary to be in full compliance with TVA requirements and the TVA permits issued to TWRA.

The minimum necessary installation is required to allow the maximum number of locations to be served with the funds available.

Locations:

Roane County has determined a list of proposed areas to build floating docks and shoreline stabilization on the waterways in the county. The total number of locations that will be built is based on the prices received and the amount of grant funds that are available. The list of the locations in order of priority is shown on the attached spreadsheet, NRT Scope of Work by Location.

Please refer to the TWRA Map below for locations on Watts Bar Lake



**2017-04-171 – SHORELINE STABILIZATION
PRICE SHEET**

Pricing is requested for the length indicated below for the right & left of the dock.
Pricing is also requested on a per lineal foot price for instances that there may be
variances in the estimated lengths.

	LOCATION	FT. TO 20 FT WIDE - LEFT	LUMP SUM FOR LEFT SIDE STABILIZATION	FT. TO 20 FT WIDE - RIGHT	LUMP SUM FOR RIGHT SIDE STABILIZATION
1	LITTLE EMORY	20		20	
2	SHADY GROVE	10		17	
3	WINTON CHAPEL	0		10	
4	RILEY CREEK, NORTH	20		20	
5	BELL COVE	8		20	
6	KOA BOAT RAMP	0		4	
7	HOG BACK RIDGE	10		10	
8	NEW HOPE	20		20	
9	RILEY CREEK, SOUTH	20		20	
10	SUGAR GROVE	20		20	
11	BLUE SPRINGS	20		20	
	TOTAL FEET	148		181	

	LOCATION	FT. TO 30 FT WIDE - LEFT	LUMP SUM FOR LEFT SIDE STABILIZATION	FT. TO 30 FT WIDE - RIGHT	LUMP SUM FOR RIGHT SIDE STABILIZATION
1	LITTLE EMORY	30		30	
2	SHADY GROVE	20		27	
3	WINTON CHAPEL	10		20	
4	RILEY CREEK, NORTH	30		30	
5	BELL COVE	18		14	
6	KOA BOAT RAMP	10		20	
7	HOG BACK RIDGE	20		30	
8	NEW HOPE	30		30	
9	RILEY CREEK, SOUTH	30		30	
10	SUGAR GROVE	30		30	
11	BLUE SPRINGS	30		30	
	TOTAL FEET	258		291	

PRICE PER LINEAL FOOT FOR STABILIZATION AS SPECIFIED \$ _____



Information Needed for Shoreline Stabilization Projects

A Section 26a permit application consists of a completed, signed and dated application form, plans with sufficient information to complete a review and map location.

TVA will waive permit processing fees for shoreline stabilization projects.

Applications should be sent to :

Tennessee Valley Authority
Little Tennessee Watershed Team
260 Interchange Park Drive
Lenoir City, Tennessee 37772-5664

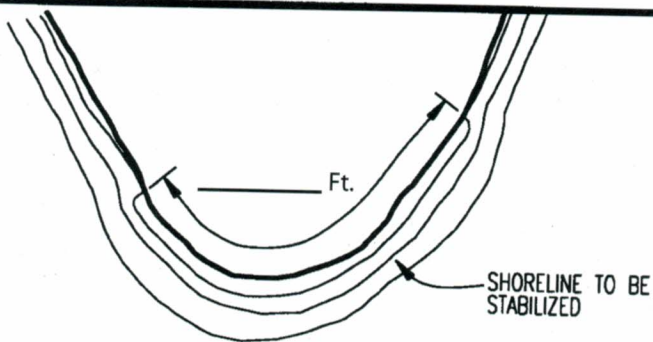
Rip Rap at each side.

What is needed for review of shoreline stabilization?

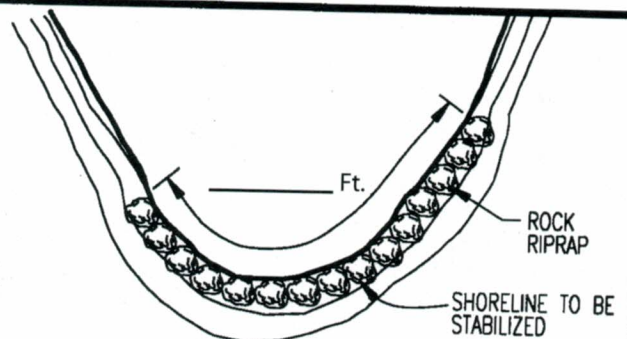
- Type of materials proposed for construction.
- Length of the total project and average height in feet above summer water level (or normal water level along rivers and streams).
- The normal summer water level is ---- feet above mean sea level for ----- Reservoir.
- For riprap, indicate the approximate size range of materials (6- to 18-inch diameter clean stone is preferred).
- Provide the thickness of the riprap wall and the average height in feet from the bottom of the riprap (on the lakebed) to the top.
- Indicate the extent of vegetation clearing or removal.
- If the project will include grading, provide grading plans showing existing and proposed elevations, erosion control plans showing how runoff will be controlled during construction, and indicate how the site will be permanently stabilized (seed, sod, plantings, etc.).

Helpful Hints:

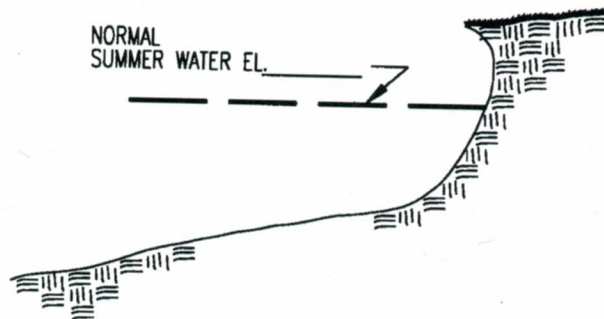
- TVA prefers biostabilization methods be used as shoreline stabilization. Call us for more information.
- The stabilization top of riprap should extend on average no more than two horizontal feet lakeward of the existing streambank or lakebank at summer water level (or normal water level along rivers and streams).
- Placement of a filter blanket or filter material under riprap will help prevent additional soil loss.
- Asphalt materials, railroad ties, tires, creosote timbers, or other potentially polluting materials are not permitted.
- In addition, plans should include any other facilities proposed to be constructed.



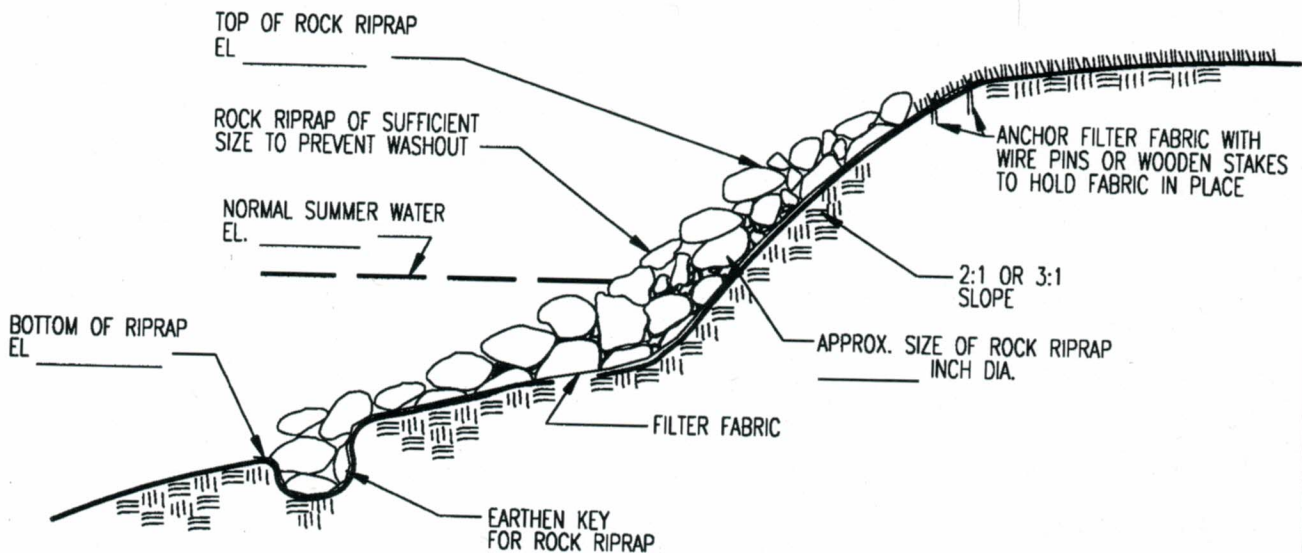
**PLAN SHOWING
EXISTING SHORELINE**



**PLAN SHOWING
STABILIZED SHORELINE**



SECTION SHOWING EXISTING SHORELINE



SECTION SHOWING STABILIZED SHORELINE

THE NORMAL SUMMER WATER LEVEL IS: _____

NOTE:
INCLUDE ALL DIMENSIONS AND ELEVATIONS
WHERE INDICATED.



RESERVOIR NAME: _____

TYPICAL SHORELINE ROCK RIPRAP

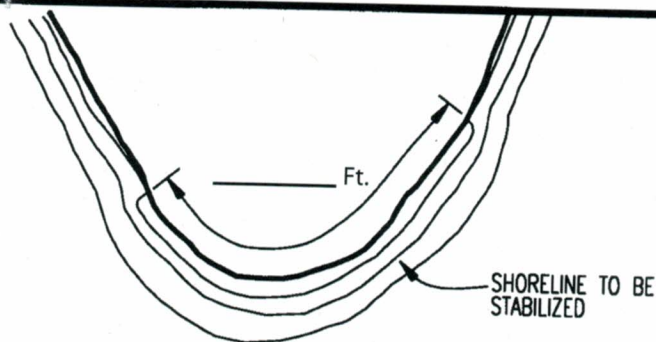
PROJECT LOCATION INFORMATION:

STREAM NAME _____ SUBDIVISION NAME _____

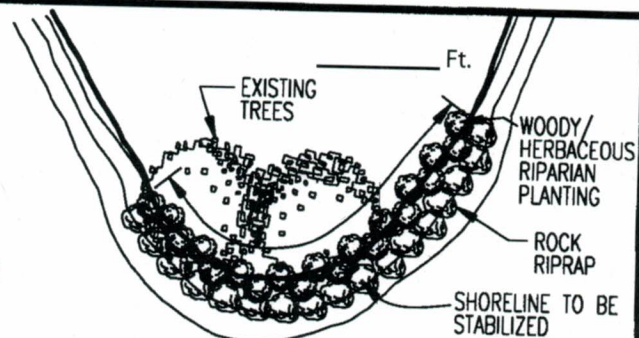
RESERVOIR NAME _____ LOT NUMBER _____

MILE MARKER _____ MAP NO. _____

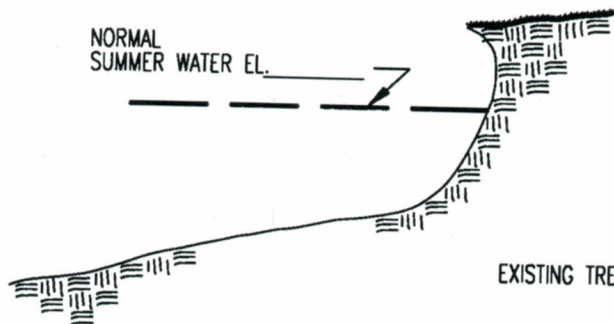
(APPLICANT'S NAME) _____



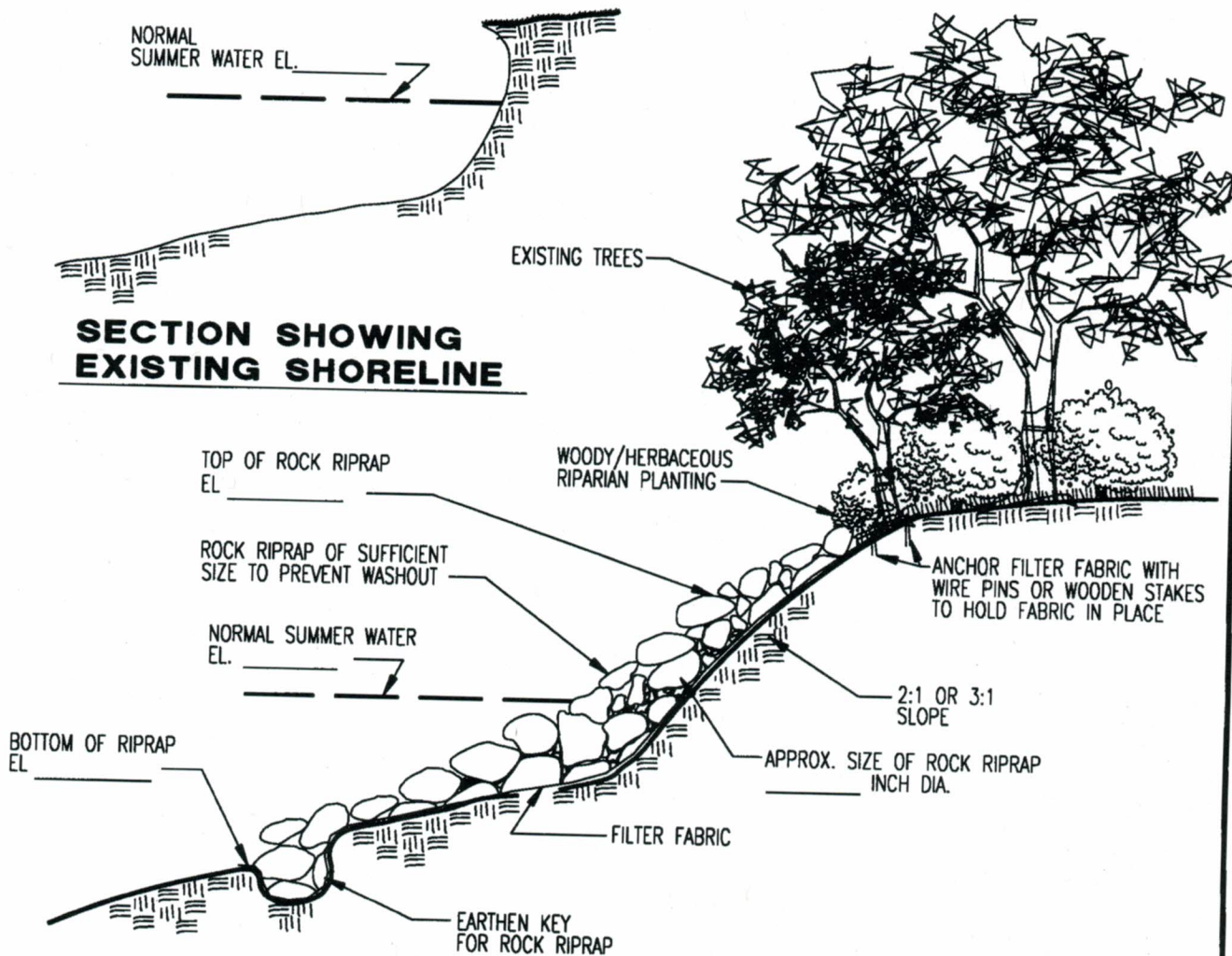
**PLAN SHOWING
EXISTING SHORELINE**



**PLAN SHOWING
STABILIZED SHORELINE**



**SECTION SHOWING
EXISTING SHORELINE**



SECTION SHOWING STABILIZED SHORELINE

THE NORMAL SUMMER WATER LEVEL IS:

TVA

ROCK RIPRAP w/ OPTIONAL VEGETATION

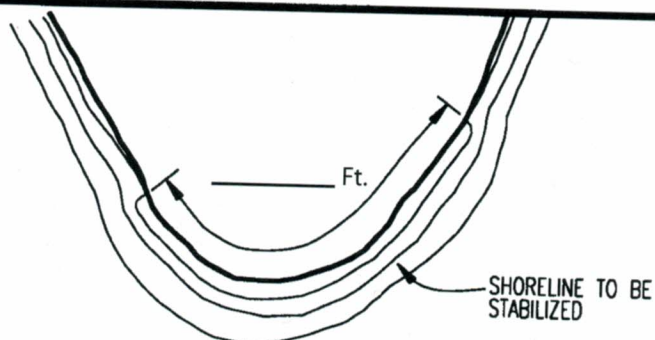
PROJECT LOCATION INFORMATION:

STREAM NAME _____ SUBDIVISION NAME _____
RESERVOIR NAME _____ LOT NUMBER _____
MILE MARKER _____ MAP NO. _____

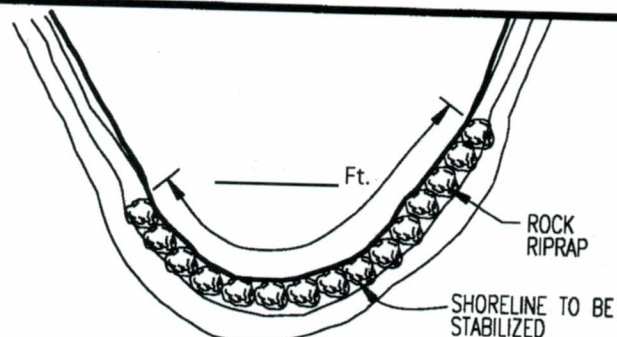
(APPLICANT'S NAME)

NOTE:

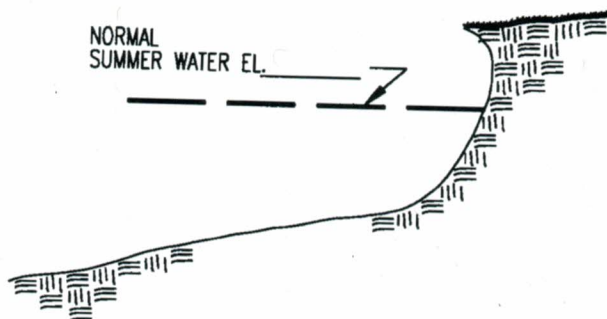
INCLUDE ALL DIMENSIONS AND ELEVATIONS
WHERE INDICATED.



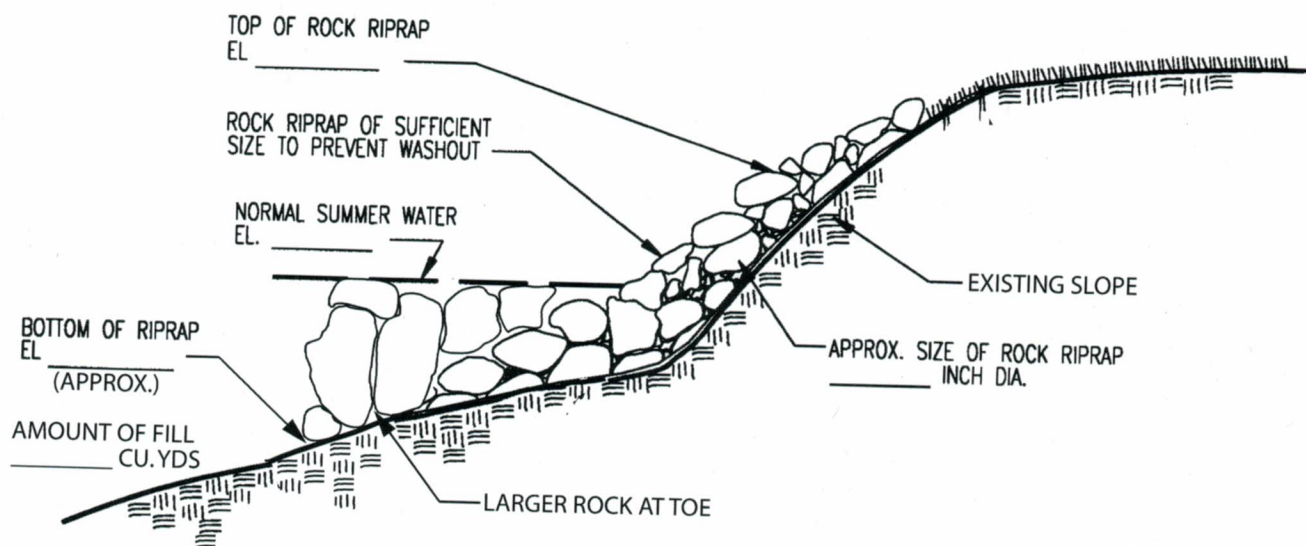
**PLAN SHOWING
EXISTING SHORELINE**



**PLAN SHOWING
STABILIZED SHORELINE**



SECTION SHOWING EXISTING SHORELINE



SECTION SHOWING STABILIZED SHORELINE

THE NORMAL SUMMER WATER LEVEL IS: _____

NOTE:
INCLUDE ALL DIMENSIONS AND ELEVATIONS
WHERE INDICATED.



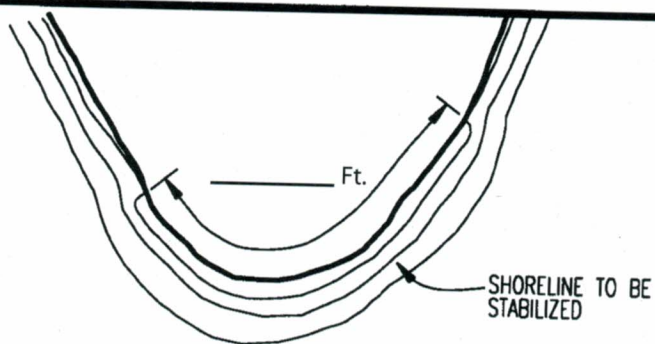
RESERVOIR NAME:

TYPICAL SHORELINE ROCK RIPRAP

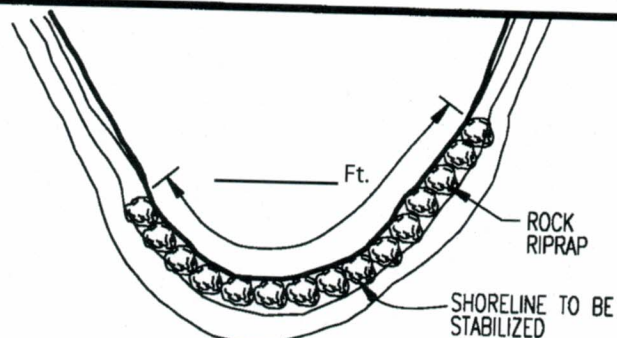
PROJECT LOCATION INFORMATION:

STREAM NAME _____ SUBDIVISION NAME _____
RESERVOIR NAME _____ LOT NUMBER _____
MILE MARKER _____ MAP NO. _____

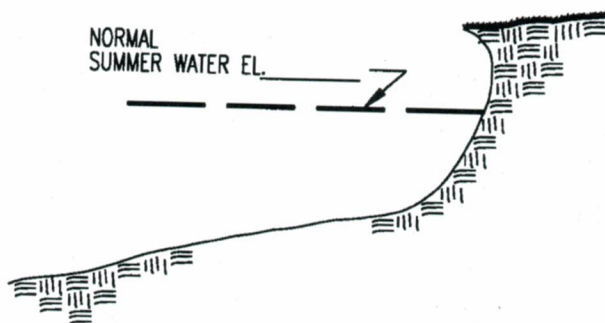
(APPLICANT'S NAME)



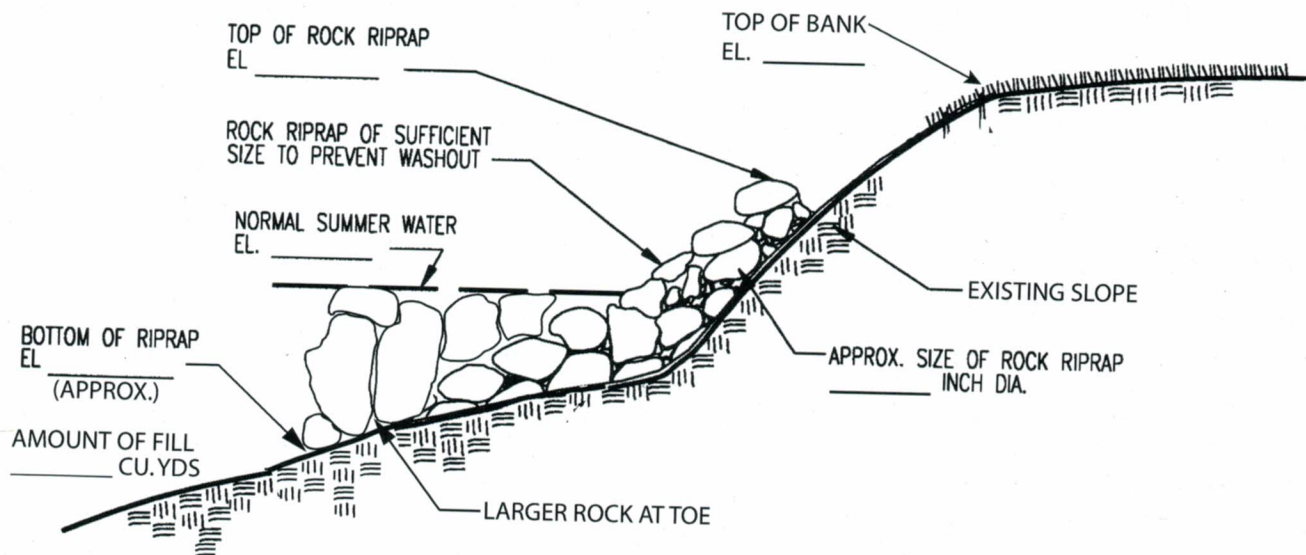
**PLAN SHOWING
EXISTING SHORELINE**



**PLAN SHOWING
STABILIZED SHORELINE**



SECTION SHOWING EXISTING SHORELINE



SECTION SHOWING STABILIZED SHORELINE

THE NORMAL SUMMER WATER LEVEL IS: _____

NOTE:

INCLUDE ALL DIMENSIONS AND ELEVATIONS
WHERE INDICATED.



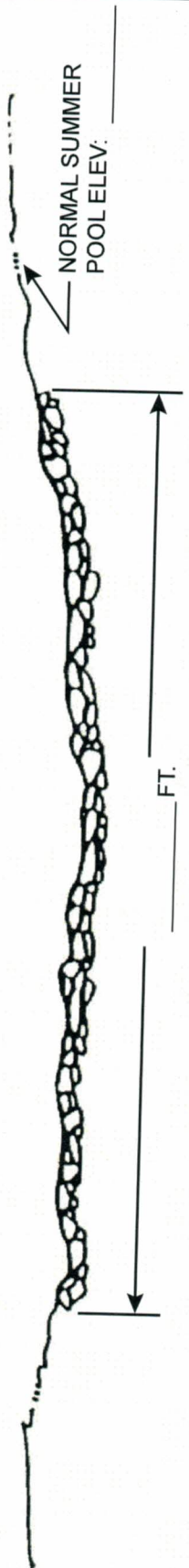
RESERVOIR NAME:

TYPICAL SHORELINE ROCK RIPRAP

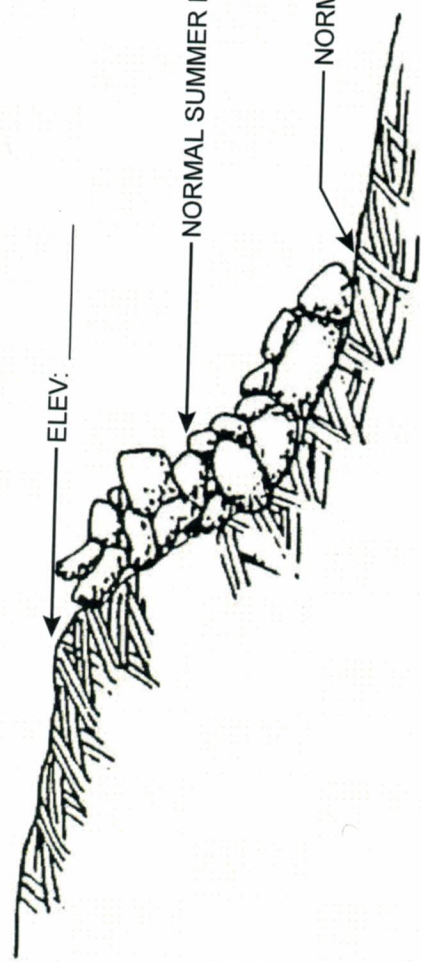
PROJECT LOCATION INFORMATION:

STREAM NAME _____ SUBDIVISION NAME _____
RESERVOIR NAME _____ LOT NUMBER _____
MILE MARKER _____ MAP NO. _____

(APPLICANT'S NAME)



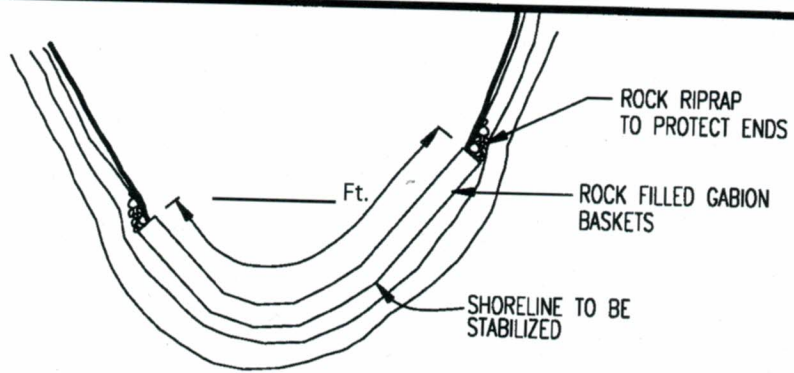
NORMAL SUMMER
POOL ELEV: _____



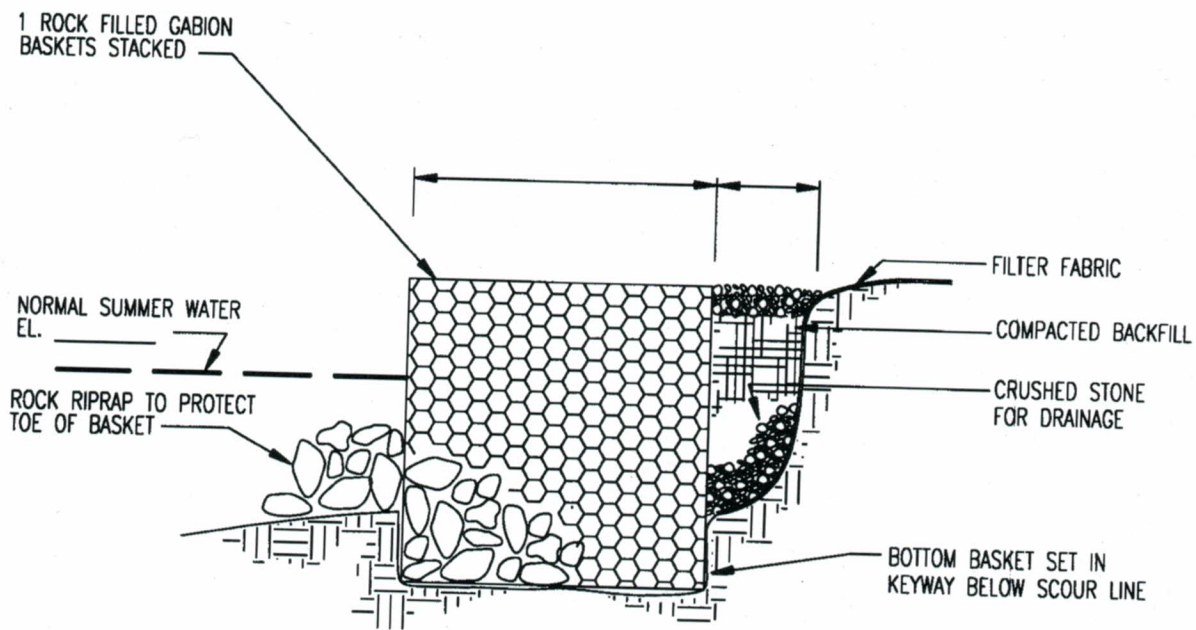
AMOUNT OF FILL: _____ CU. YDS.

NOTE;
INCLUDE ALL DIMENSIONS AND
ELEVATIONS WHERE INDICATED

TVA	Reservoir
	PROPOSED RIPRAP BANK STABILIZATION
PROJECT LOCATION INFORMATION:	
STREAM NAME _____	SUBDIVISION NAME _____
RESERVOIR NAME _____	LOT NUMBER _____
MILE MARKER _____	MAP NO. _____
(APPLICANT'S NAME)	



PLAN



SECTION

THE NORMAL SUMMER WATER LEVEL IS:

NOTE:
INCLUDE ALL DIMENSIONS AND ELEVATIONS
WHERE INDICATED.

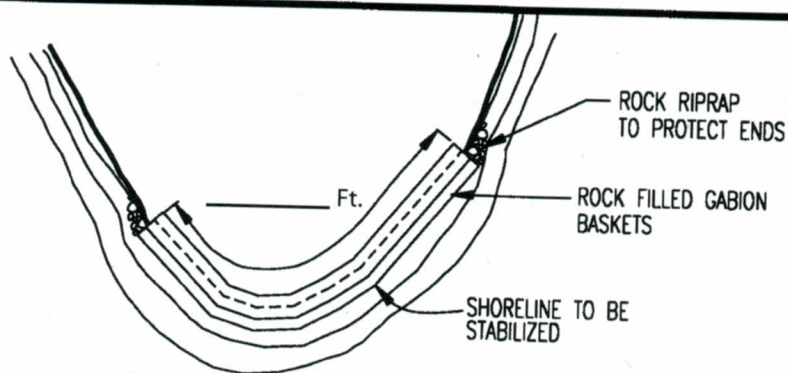
TVA

TYPICAL ROCK GABION - SINGLE

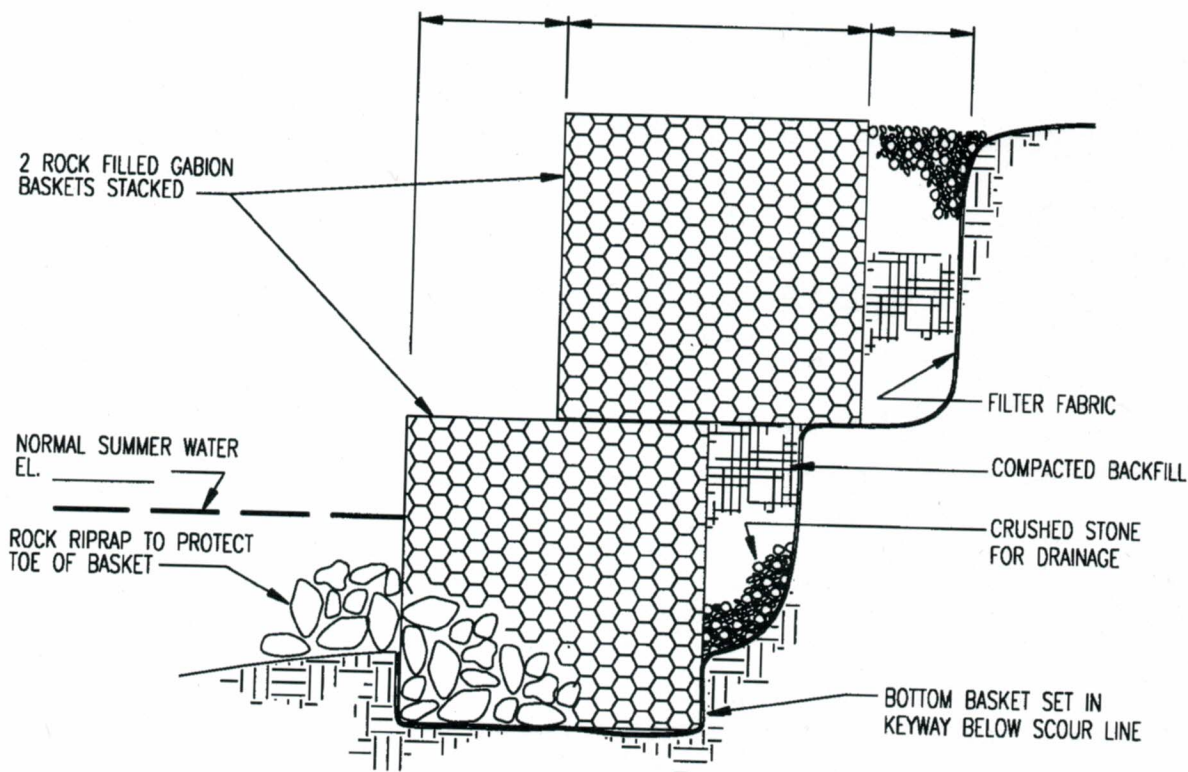
PROJECT LOCATION INFORMATION:

STREAM NAME _____ SUBDIVISION NAME _____
RESERVOIR NAME _____ LOT NUMBER _____
MILE MARKER _____ MAP NO. _____

(APPLICANT'S NAME)



PLAN



SECTION

THE NORMAL SUMMER WATER LEVEL IS:

NOTE:

INCLUDE ALL DIMENSIONS AND ELEVATIONS WHERE INDICATED.

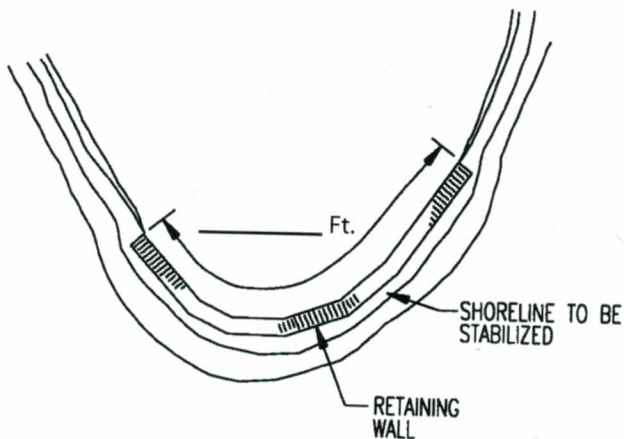


TYPICAL ROCK GABION - STACKED

PROJECT LOCATION INFORMATION:

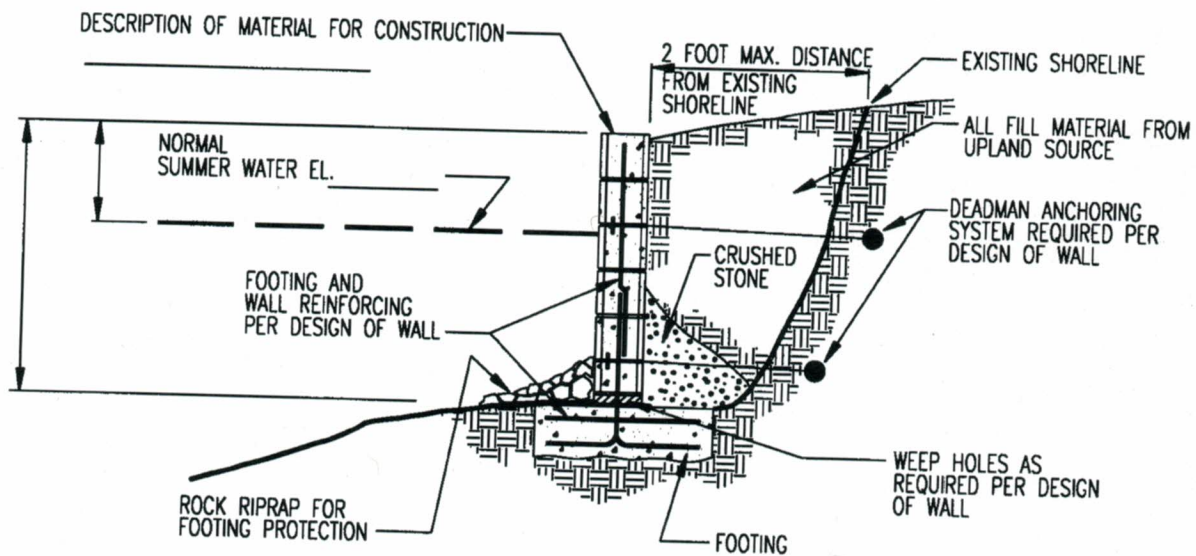
STREAM NAME _____ SUBDIVISION NAME _____
 RESERVOIR NAME _____ LOT NUMBER _____
 MILE MARKER _____ MAP NO. _____

(APPLICANT'S NAME)



THE NORMAL SUMMER WATER LEVEL IS:

PLAN



SECTION THRU WALL

NOTE:

INCLUDE ALL DIMENSIONS AND ELEVATIONS WHERE INDICATED.

TVA

TYPICAL SHORELINE RETAINING WALL

PROJECT LOCATION INFORMATION:

STREAM NAME _____

SUBDIVISION NAME _____

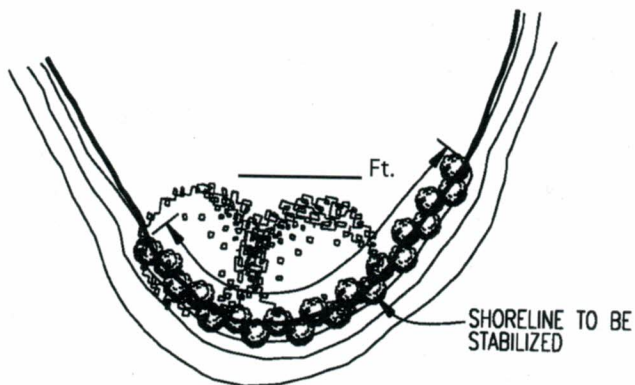
RESERVOIR NAME _____

LOT NUMBER _____

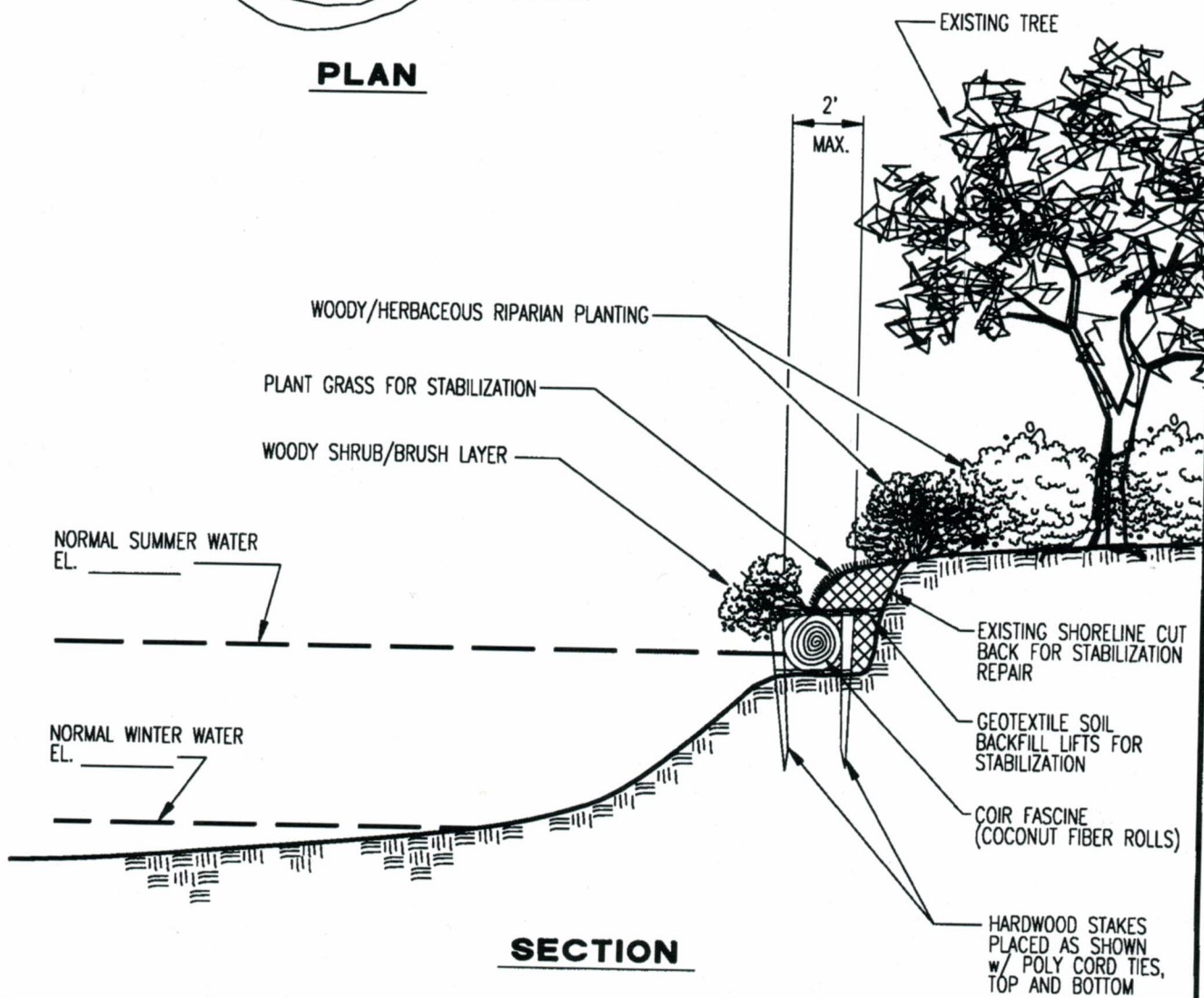
MILE MARKER _____

MAP NO. _____

(APPLICANT'S NAME) _____



PLAN



SECTION

THE NORMAL SUMMER WATER LEVEL IS:

NOTE:
INCLUDE ALL DIMENSIONS AND ELEVATIONS
WHERE INDICATED.

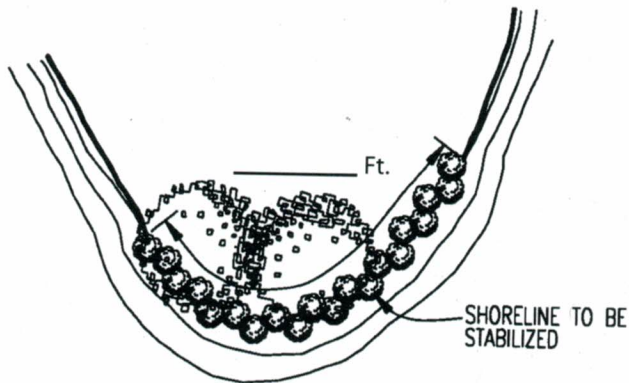
TVA

SOIL BIOENGINEERED / STABILIZATION

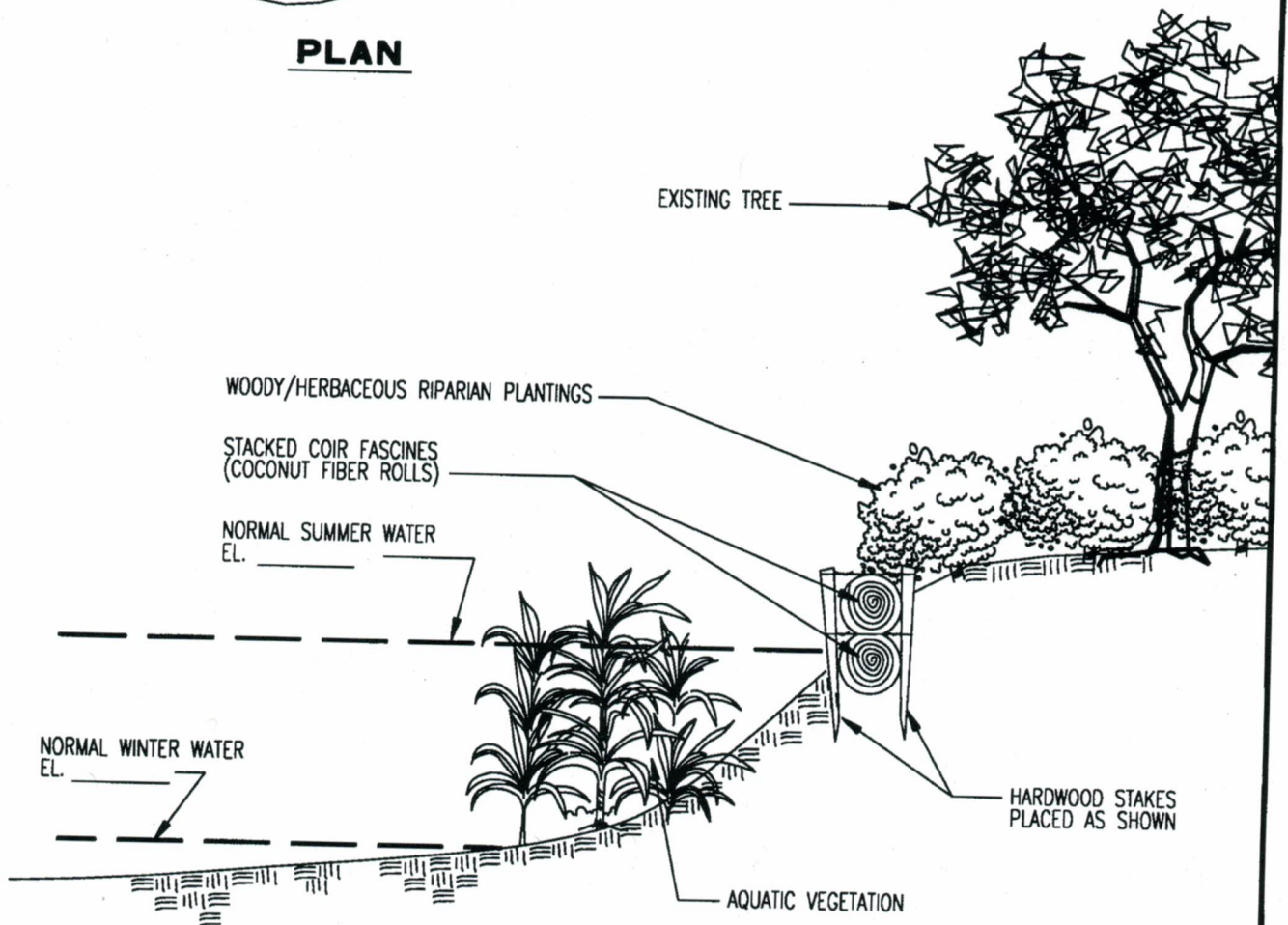
PROJECT LOCATION INFORMATION:

STREAM NAME _____ SUBDIVISION NAME _____
RESERVOIR NAME _____ LOT NUMBER _____
MILE MARKER _____ MAP NO. _____

(APPLICANT'S NAME)



PLAN



SECTION

THE NORMAL SUMMER WATER LEVEL IS:

NOTE:

INCLUDE ALL DIMENSIONS AND ELEVATIONS WHERE INDICATED.

TVA

FIBER ROLLS & VEGETATION w/ OPTIONAL BREAKWATER

PROJECT LOCATION INFORMATION:

STREAM NAME _____ SUBDIVISION NAME _____

RESERVOIR NAME _____ LOT NUMBER _____

MILE MARKER _____ MAP NO. _____

(APPLICANT'S NAME)