

Site Location Map  
Scale 1 inch = 5000 feet

Notes

- The contractor is responsible for obtaining and complying with all permits and easements. This includes all federal, state and local permits.
- The contractor is responsible for checking and complying with all local ordinances that may affect the project.
- MISS UTILITY (Virginia telephone number 811) must be contacted at least 3 working days before construction begins. The contractor is responsible for contacting MISS UTILITY. The contractor must be able to provide the MISS UTILITY ticket number within 24 hours upon request by the SWCD representative. The contractor is responsible for locating any buried utilities (water lines, electric lines, telephone lines, gas lines, sewer lines, etc.) in the work area that are not covered by the MISS UTILITY program.
- SWCD makes no representation of the existence or nonexistence of utilities. The presence or absence of utilities on the construction drawings does not assure that there are or are not utilities in the work area.
- The contractor is responsible for knowing and following the appropriate safety standards required by the Virginia Safety and Health Codes Board.
- The contractor shall notify the local SWCD representative at least one week prior to beginning construction, and at all other times specified in this construction plan and attached specifications.
- These Drawings and Specifications shall not be modified or deviated from unless approved in writing by the Engineer who has sealed these Drawings and a SWCD Representative.
- Prior to beginning construction, the cover sheet must be signed by the contractor, and the SWCD representative. The contractor must sign the cover sheet acknowledging that these responsibilities are understood and the contractor must return the signed cover sheet to the SWCD Representative. If requested by SWCD, the contractor shall arrange for a meeting with SWCD to review the construction drawings and specifications prior to construction.

The SWCD Representative for this project is:

Greg Wilchens

The SWCD office telephone number is:

540-825-8591

Benchmark Descriptions

CP #	1	Actual Elev.	501.38
Description: Iron pipe with cap at southern end of dam. N: 6799636.94 E: 11551861.19			
CP #	2	Actual Elev.	500.47
Description: Iron pipe with cap at northern end of dam N: 6800016.36 E: 11551646.81			

Acknowledgment Signatures

These construction drawings and attached specifications have been reviewed I understand what is required. (Sign and date below)

Contractor \_\_\_\_\_

Contractor \_\_\_\_\_

SWCD Representative \_\_\_\_\_

Engineering Job Class:



Know what's below.  
Call before you dig.

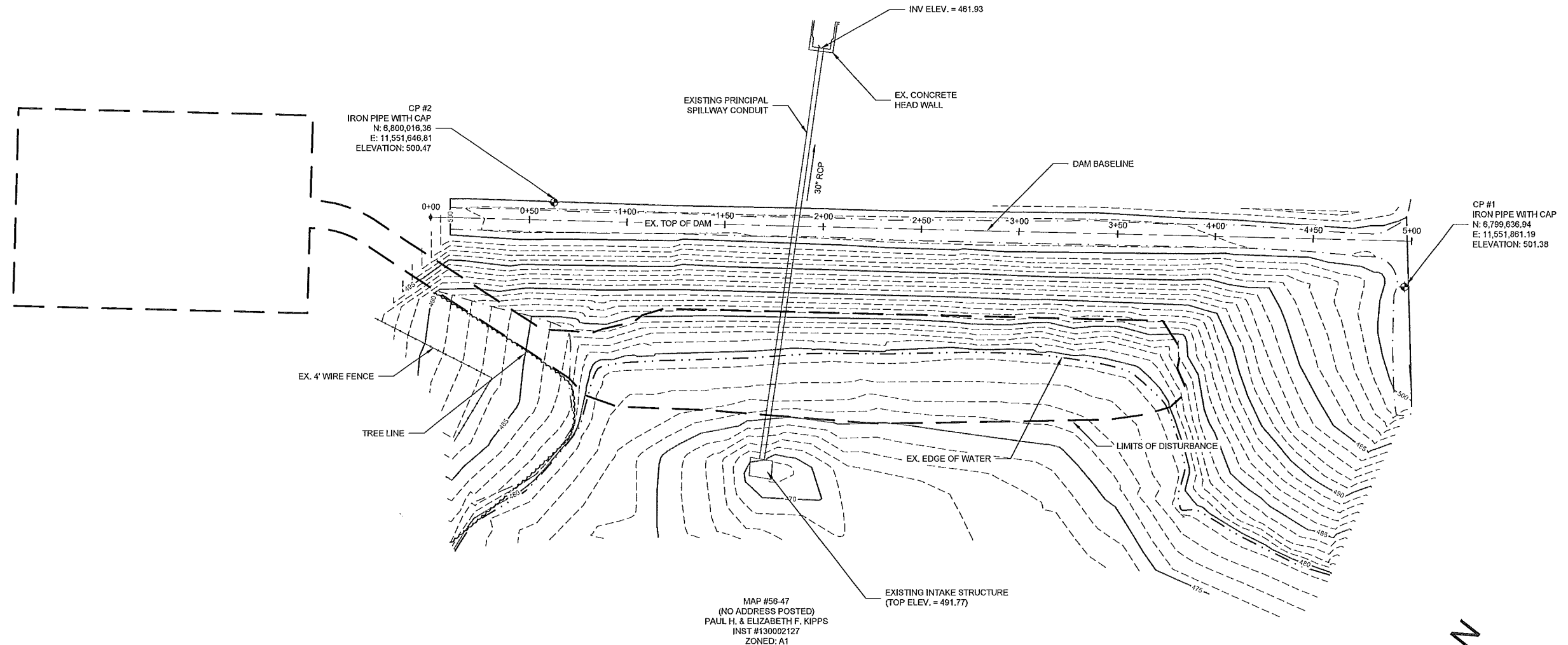
Index of Sheets	
Sheet No.	Title
1	COVER
2	EXISTING SITE PLAN
3	PROPOSED SITE PLAN
4	WAVE BERM PROFILE

Specification Table	
No.	Title
VA-705	POLLUTION CONTROL
VA-706	SEEDING/EROSION BLANKET
VA-707	SITE PREPARATION
VA-708	SALVAGING & SPREADING TOPSOIL
VA-721	EXCAVATION
VA-723	EARTHFILL
	REMOVAL OF WATER (SEE NOTE 1, PAGE 4)

Table of Estimated Quantities		
Item	Unit	Quantity
Mobilization & Demobilization	1	LS
Erosion & Sediment Control	1	LS
Control of Water	1	LS
Topsoil Stripping & Replacement	600	CY
Common Excavation	550	CY
Earthfill	950	CY
Permanent Turf Establishment	1.0	AC
Erosion Control Matting	500	SY

DATE	
DESCRIPTION	
REV	
CHECKED BY: RPB	
DRAWN BY: JSR	
DESIGNED BY: JTC	
RANDALL P. BASS, P.E.	
<i>Randall P. Bass</i>	
VIRGINIA PROFESSIONAL ENGINEER NO. 046716	
<small>6446 Salsburg Road, Suite 4 / Ashburn, VA 20163 / Phone: 703.738.5693 / Fax: 703.738.9001 / schnabel-eng.com</small>	
BEAUTIFUL RUN DAM NO. 2A WAVE BERM RECONSTRUCTION MADISON COUNTY, VA	COVER SHEET
PROJECT: 18C17020.00	
DATE: APRIL 2018	
SHEET 1 OF 4	

GS1018 PROJECTS\18C17020.00\_CULPEPER SWCD ENGINEERING SERVICES\05-SE PRODUCTS\SIG-CAD\DRAWINGS\FINAL\_DESIGN\BEAUTIFUL\_RUN\_FINAL\_DESIGN.dwg



**EXISTING SITE PLAN NOTES:**

1. THE PROPERTY SHOWN HEREON IS IDENTIFIED ON THE MADISON COUNTY, VIRGINIA GEOGRAPHIC INFORMATION SYSTEM AS MAP #46-47 AND IS CURRENTLY ZONED A1.
2. THE PROPERTY SHOWN HEREON IS NOW IN THE NAME OF PAUL H. & ELIZABETH F. KIPPS, RECORDED AT INSTRUMENT #130002127, ALL AMONG THE LAND RECORDS OF MADISON COUNTY, VIRGINIA.
3. DURING THE PROCESS OF THE PHYSICAL SURVEY NO INDICATIONS OF A CEMETERY WERE FOUND, NO FURTHER INSPECTION OF THESE PROPERTIES HAVE BEEN MADE FOR POSSIBLE CEMETERIES.
4. A.) HORIZONTAL DATUM SHOWN HEREON IS REFERENCED TO THE VIRGINIA COORDINATE SYSTEM (VCS) 1983 - NORTH AS ESTABLISHED FROM A CURRENT GPS SURVEY.  
 B.) THE VERTICAL DATUM SHOWN HEREON IS REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88) AS ESTABLISHED FROM A CURRENT GPS SURVEY.
5. NO GEOTECHNICAL, SUBSURFACE, FIELD REVIEWS, RESEARCH, AGENCY OR GOVERNMENTAL RECORD REVIEWS, OR OTHER INVESTIGATIONS HAVE BEEN MADE FOR THE PURPOSE OF LOCATING, OR DETERMINING THE EXISTENCE OF WETLANDS, HAZARDOUS MATERIALS, OR OTHER ENVIRONMENTAL CONCERNS ON SITE.

**FLOOD ZONE NOTES:**

THE AREA SHOWN HEREON LOCATED ON THE FLOOD INSURANCE RATE MAPS (FIRM), COMMUNITY PANEL NO. 51113C0235C, WITH AND EFFECTIVE DATE OF JANUARY 5TH, 2007

BY GRAPHICAL DEPICTION ONLY, THE PROPERTY SHOWN HEREON IS SHOWN IN: FLOOD ZONE "X" (OTHER AREAS), AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN.

A FIELD SURVEY WAS NOT PERFORMED TO DETERMINE THE FLOOD ZONES LISTED HEREON.

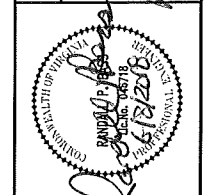
TOPOGRAPHIC INFORMATION PROVIDED BY:  
 CHRISTOPHER CONSULTANTS  
 MANASSAS, VA  
 SURVEY DATED: 03/28/2018

MAP #56-47  
 (NO ADDRESS POSTED)  
 PAUL H. & ELIZABETH F. KIPPS  
 INST #130002127  
 ZONED: A1

REV	DESCRIPTION	DATE

CHECKED BY: RPB  
 DRAWN BY: JSR  
 DESIGNED BY: JTC

RANDALL P. BASS, P.E.  
*Randall P. Bass*  
 VIRGINIA PROFESSIONAL ENGINEER NO. 046718



**Schnabel ENGINEERING**

6445 Shiloh Road, Suite A / Alpharetta, GA 30005  
 Phone: 770-791-9008 / Fax: 770-791-9003 /  
 Schnabel-eng.com

BEAUTIFUL RUN DAM NO. 2A  
 WAVE BERM RECONSTRUCTION  
 MADISON COUNTY, VA

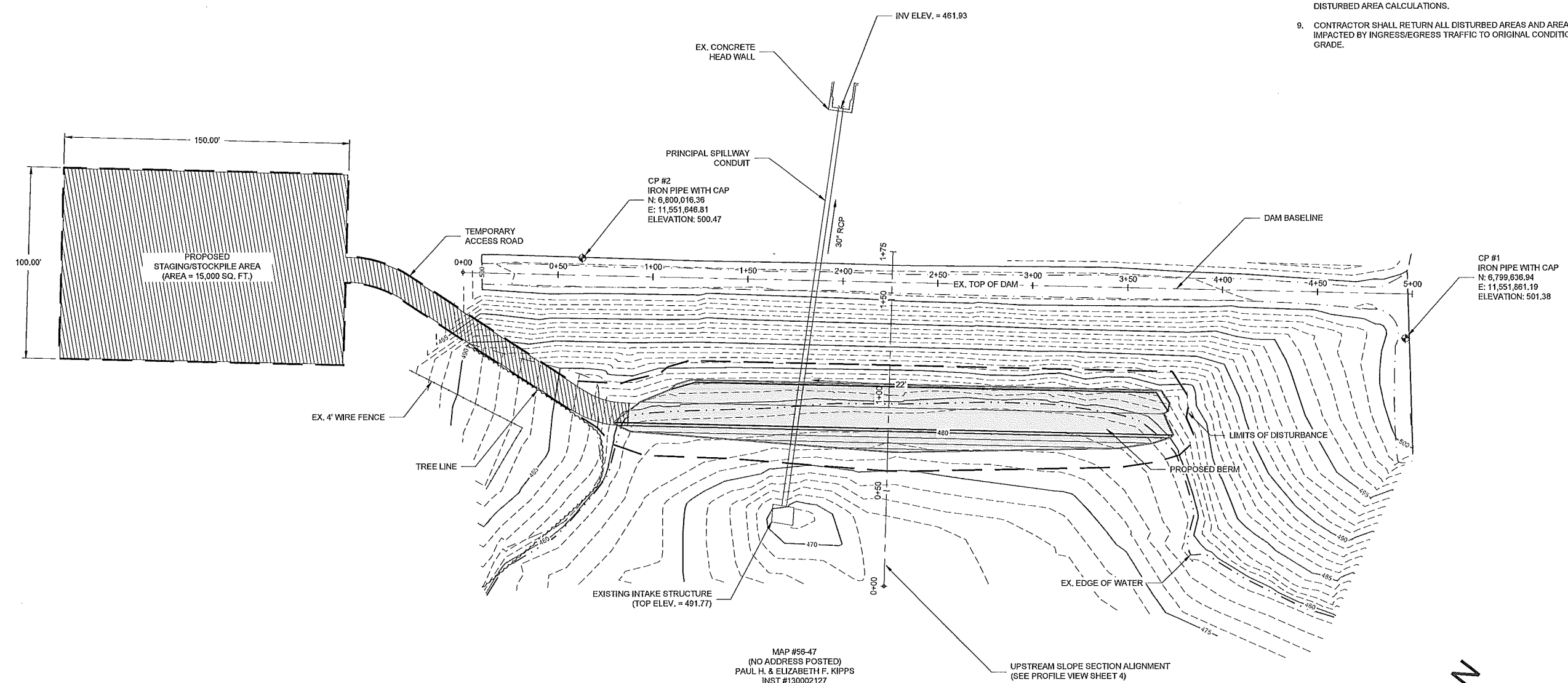
**EXISTING SITE PLAN**

PROJECT: 18C17020.00  
 DATE: APRIL 2018  
 SHEET  
 2 OF 4

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TOPOGRAPHIC INFORMATION PROVIDED BY:  
CHRISTOPHER CONSULTANTS  
MANASSAS, VA  
SURVEY DATED: 03/26/2018



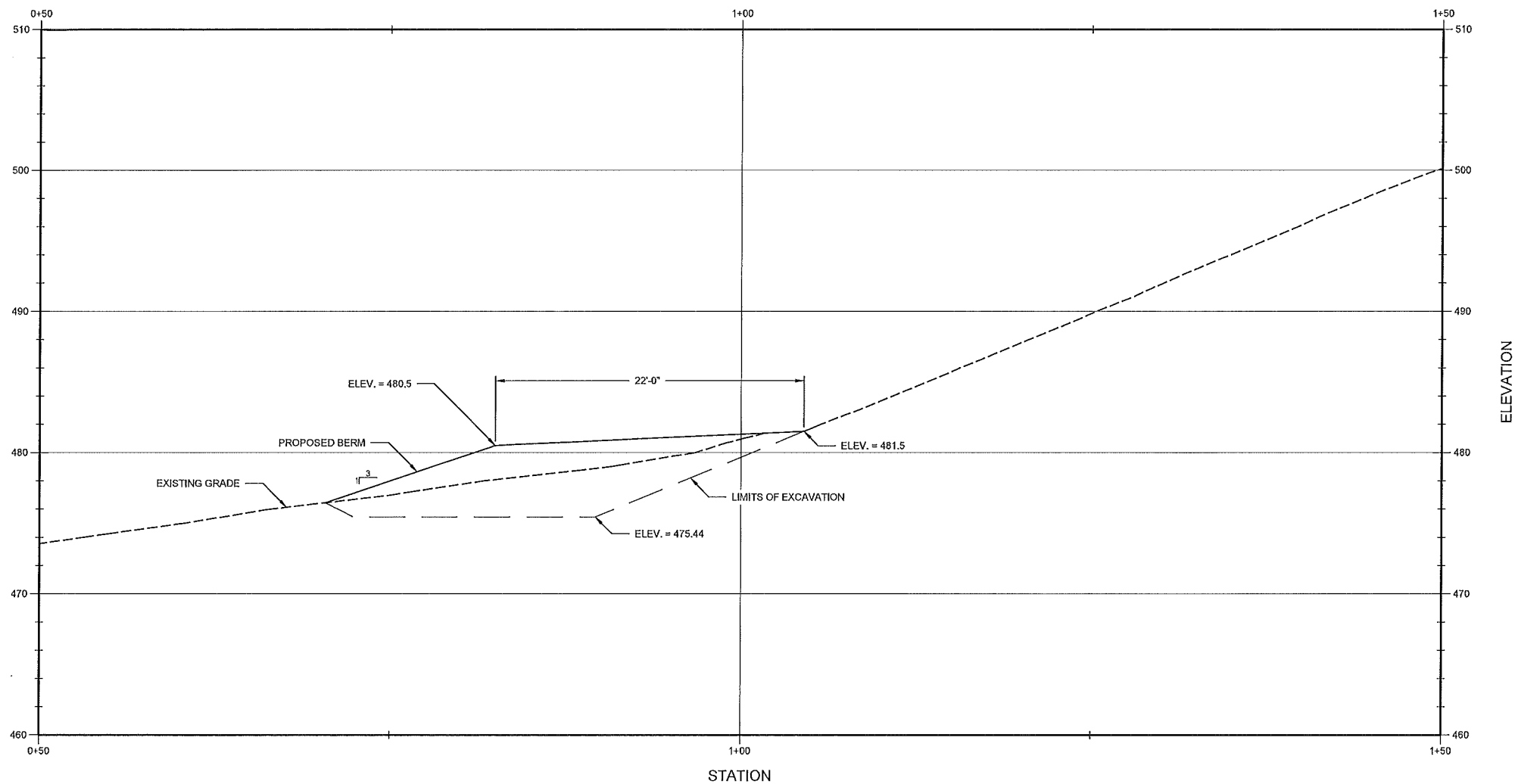
MAP #55-47  
(NO ADDRESS POSTED)  
PAUL H. & ELIZABETH F. KIPPS  
INST #130002127  
ZONED: A1

**PROPOSED SITE PLAN NOTES:**

1. STRIP AND STOCKPILE ALL TOPSOIL WITHIN LIMITS OF PROPOSED WORK.
2. ADD PROPOSED WAVE BERM, AS INDICATED. EARTHFILL BORROW SOURCE TO BE IDENTIFIED BY AND APPROVED BY SWCD.
3. FOUR (4) INCHES OF TOPSOIL SHALL BE PLACED ON ALL DISTURBED AREAS.
4. ALL DISTURBED AREAS SHALL BE FERTILIZED, LIMED, AND SEEDED ACCORDING TO SPECIFICATION 706 "SEEDING".
5. DISTURBED AREAS SHALL HAVE MACHINE BLOWN, CLEAN STRAW MULCH APPLIED AT 2 TONS PER ACRE AND MACHINE TRACKED PER SPECIFICATION VESCP 3.2 "SURFACE ROUGHENING".
6. UTILIZE EROSION CONTROL MATTING ON THE UPSTREAM SLOPE OF THE PROPOSED BERM AND ALONG THE TEMPORARY ACCESS ROAD AFTER CONSTRUCTION ACTIVITIES ARE COMPLETED.
7. LOCATION AND LIMITS OF BORROW AREA NOT INDICATED ON PLANS. ACTUAL LOCATION AND EXTENTS TO BE DETERMINED IN THE FIELD AND APPROVED BY SWCD.
8. ACCESS BETWEEN BORROW AREA AND DAM NOT INCLUDED IN DISTURBED AREA CALCULATIONS.
9. CONTRACTOR SHALL RETURN ALL DISTURBED AREAS AND AREAS IMPACTED BY INGRESS/EGRESS TRAFFIC TO ORIGINAL CONDITION AND GRADE.

DESIGNED BY: JTC	DRAWN BY: JSR	CHECKED BY: RFB	RANDALL P. BASS, P.E. VIRGINIA PROFESSIONAL ENGINEER NO. 046718		DATE: 04/18/2018	REV:	DESCRIPTION:
BEAUTIFUL RUN DAM NO. 2A WAVE BERM RECONSTRUCTION MADISON COUNTY, VA							
<b>PROPOSED SITE PLAN</b>							
PROJECT: 18C17020.00 DATE: APRIL 2018 SHEET 3 OF 4							

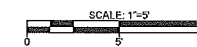
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1 PROPOSED BERM PROFILE

**NOTES:**

1. AT LEAST TWO WEEKS PRIOR TO PROJECT MOBILIZATION, LOWER AND MAINTAIN THE LAKE WATER SURFACE ELEVATION TO ELEV. 472. LAKE SHALL BE MAINTAINED AT THIS ELEVATION UNTIL A PERMANENT STAND OF GRASS ON THE BERM IS ACHIEVED.
2. REMOVE AND STOCKPILE ALL TOPSOIL PRIOR TO EARTHWORK ACTIVITIES. PLACE 4" OF TOPSOIL ON COMPLETED WAVE BERM (150 CY). ALL AREAS TO RECEIVE COMPACTED STRUCTURAL FILL SHALL BE COMPLETELY STRIPPED OF VEGETATION.
3. APPROXIMATELY 550 CY OF COMMON EXCAVATION IS REQUIRED TO PREPARE THE EMBANKMENT TO RECEIVE COMPACTED STRUCTURAL FILL ASSOCIATED WITH THE PROPOSED WAVE BERM, AS SHOWN. DEPENDING UPON SITE CONDITIONS, THE AMOUNT OF EXCAVATION SHOWN MAY BE REDUCED IF THE CONTRACTOR IS ABLE TO SUFFICIENTLY DRY THE AREAS TO RECEIVE COMPACTED STRUCTURAL FILL TO THE SATISFACTION OF THE DESIGN ENGINEER AND SWCD. IF DRYING THE IN-PLACE MATERIAL SUFFICES, IN-PLACE SOILS SHALL BE MACHINE SCARIFIED TO A MINIMUM DEPTH OF 6 INCHES PRIOR TO THE PLACEMENT OF COMPACTED STRUCTURAL FILL.
4. APPROXIMATELY 900 CY OF EARTHFILL IS REQUIRED TO RECONSTRUCT THE PROPOSED WAVE BERM, IF UP TO 550 CY OF COMMON EXCAVATION DESCRIBED IN NOTE 3 ABOVE ARE REQUIRED.
5. TAMPING SHEEPSFOOT ROLLER TO BE USED FOR EARTHFILL COMPACTION ACCORDING TO SPECIFICATION VA 723 "EARTHFILL", SECTION 6A.



	RANDALL P. BASS, P.E. VIRGINIA PROFESSIONAL ENGINEER NO. 12018						
BEAUTIFUL RUN DAM NO. 2A WAVE BERM RECONSTRUCTION MADISON COUNTY, VA		PROFILE VIEW					
PROJECT: 18C17020.00 DATE: APRIL 2018 SHEET 4 OF 4							
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