



U.S. Army Corps
of Engineers
Baltimore District

Public Notice

In Reply to Application Number
CENAB-OP-RMN (Anne Arundel County DPW /
College Parkway Stream Restoration) 2013-60597-M18

PN-15-53 Comment Period: September 10, 2015 to October 09, 2015

THE PURPOSE OF THIS PUBLIC NOTICE IS TO SOLICIT COMMENTS FROM THE PUBLIC REGARDING THE WORK DESCRIBED BELOW. NO DECISION HAS BEEN MADE AS TO WHETHER OR NOT A PERMIT WILL BE ISSUED AT THIS TIME.

This District has received an application for a Department of the Army permit pursuant to Section 404 of the Clean Water Act (33 U.S.C. 1344) as described below:

APPLICANT:

Mr. Masoud Ghatineh
Anne Arundel County Bureau of Engineering
2662 Riva Road, Third Floor, MS-7301
Annapolis, Maryland 21401

WATERWAY AND LOCATION: The proposed project is located in the main stem of Mill Creek, a perennial tributary to the Magothy River, at 305 College Parkway, Arnold, Anne Arundel County, Maryland.

PROPOSED WORK: To perform stream restoration and wetland creation activities in the main stem of Mill Creek, a perennial tributary to the Magothy River. The project will impact approximately 1,247 linear feet of a non-tidal stream and approximately 43,663 square feet of a non-tidal wetland due to the installation of grade control measures to correct existing stream bank erosion. Upon completion of the construction, the site will be planted with native plant species. The purpose of the proposed project is to stabilize the eroding channel, reconnect the channel to the adjacent floodplain, and improve water quality within the stream system.

All work will be completed in accordance with the enclosed plan(s) dated February 2013. If you have any questions concerning this matter please contact Mr. Richard Kibby CENAB-OP-RMN, P.O. Box 1715, Baltimore, Maryland, 21203-1715 (410) 962-0694 or richard.kibby@usace.army.mil.

The decision whether to issue a permit will be based on an evaluation of the probable impacts, including cumulative impacts of the proposed activity on the public interest. That decision will reflect the national concern for both protection and utilization of important resources. The benefit, which reasonable may be expected to accrue from the proposal, must be balanced against its reasonably foreseeable detriments. All factors, which may be relevant to the proposal will be considered, including the cumulative effects thereof; among those are conservation, economic, aesthetics, general environmental concerns, wetlands, cultural values, fish and wildlife values, flood hazards, flood plain values, land use, navigation, shoreline erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food and fiber production, mineral needs, and consideration of property ownership and in

general, the needs and welfare of the people.

An evaluation of the work described above on the public interest will include application of the Clean Water Act Section 404 (b) (1) Guidelines promulgated by the Administrator, U.S. Environmental Protection Agency, under the authority of the Section 404 of the Clean Water Act.

The Corps of Engineers is soliciting comments from the public; Federal, State, and local agencies and officials; Indian Tribes; and other interested parties in order to consider and evaluate the impacts of this proposed activity. Any comments received will be considered by the Corps of Engineers to determine whether to issue, modify, condition or deny a permit for this proposal. To make this decision, comments are used to assess impacts on endangered species, historic properties, water quality, general environmental effects, and the other public interest factors listed above. Comments are used in the preparation of an Environmental Assessment and/or an Environmental Impact Statement pursuant to the National Environmental Policy Act. Comments provided will become part of the public record for this action. Comments are also used to determine the need for a public hearing and to determine the overall public interest of the proposed activity.

Written comments concerning the work described above related to the factors listed above or other pertinent factors must be received by the District Engineer, U.S. Army Corps of Engineers, Baltimore District, [Attn: Mr. Richard Kibby, CENAB-OP-RMN], P.O. Box 1715, Baltimore, Maryland, 21203-1715 or richard.kibby@usace.army.mil, within the comment period specified above.

ESSENTIAL FISH HABITAT: The Magnuson-Stevens Fishery Conservation and Management Act (MSFCMA), as amended by the Sustainable Fisheries Act of 1996 (Public Law 04-267), requires all Federal agencies to consult with the National Marine Fisheries Service (NMFS) on all actions, or proposed actions, permitted, funded, or undertaken by the agency that may adversely effect Essential Fish Habitat (EFH). A preliminary assessment indicates that the proposed work would not have a substantial adverse effect on EFH therefore, an abbreviated consultation will be conducted with NMFS. As the evaluation of this application continues, additional information may become available which could modify this preliminary determination.

SECTION 401 WATER QUALITY CERTIFICATION: The applicant is required to obtain a water quality certification from the Maryland Department of the Environment in accordance with Section 401 of the Clean Water Act. Any written comments concerning the work described above which relate to water quality certification must be received by the Wetlands and Waterways Program, Maryland Department of the Environment, Montgomery Park Business Center, 1800 Washington Boulevard, Suite 430, Baltimore, Maryland 21230-1708 within the comment period as specified above to receive consideration. The Maryland Department of the Environment has a statutory limit of one year from the date of this public notice to make its decision.

COASTAL ZONE MANAGEMENT PROGRAMS: The applicant has certified in this application that the proposed activity complies with and will be conducted in a manner consistent with the approved Coastal Zone Management (CZM) Program. By this public notice, we are requesting the State concurrence or objection to the applicant's consistency statement. Public comments relating to consistency must be received by the Maryland Department of the Environment, Wetlands and Waterways Program, Montgomery Park Business Center, 1800 Washington Boulevard, Suite 430, Baltimore, Maryland 21230-1708 within the comment period specified

above to receive consideration. MDE has a statutory limit of 6 months to concur or object to the applicant's consistency determination.

The applicant must obtain any State or local government permits which may be required.

A preliminary review of this application indicates that the proposed work will not affect Federal listed threatened or endangered species or their critical habitat, pursuant to Section 7 of the Endangered Species Act, as amended. As the evaluation of this application continues, additional information may become available which could modify this preliminary determination.

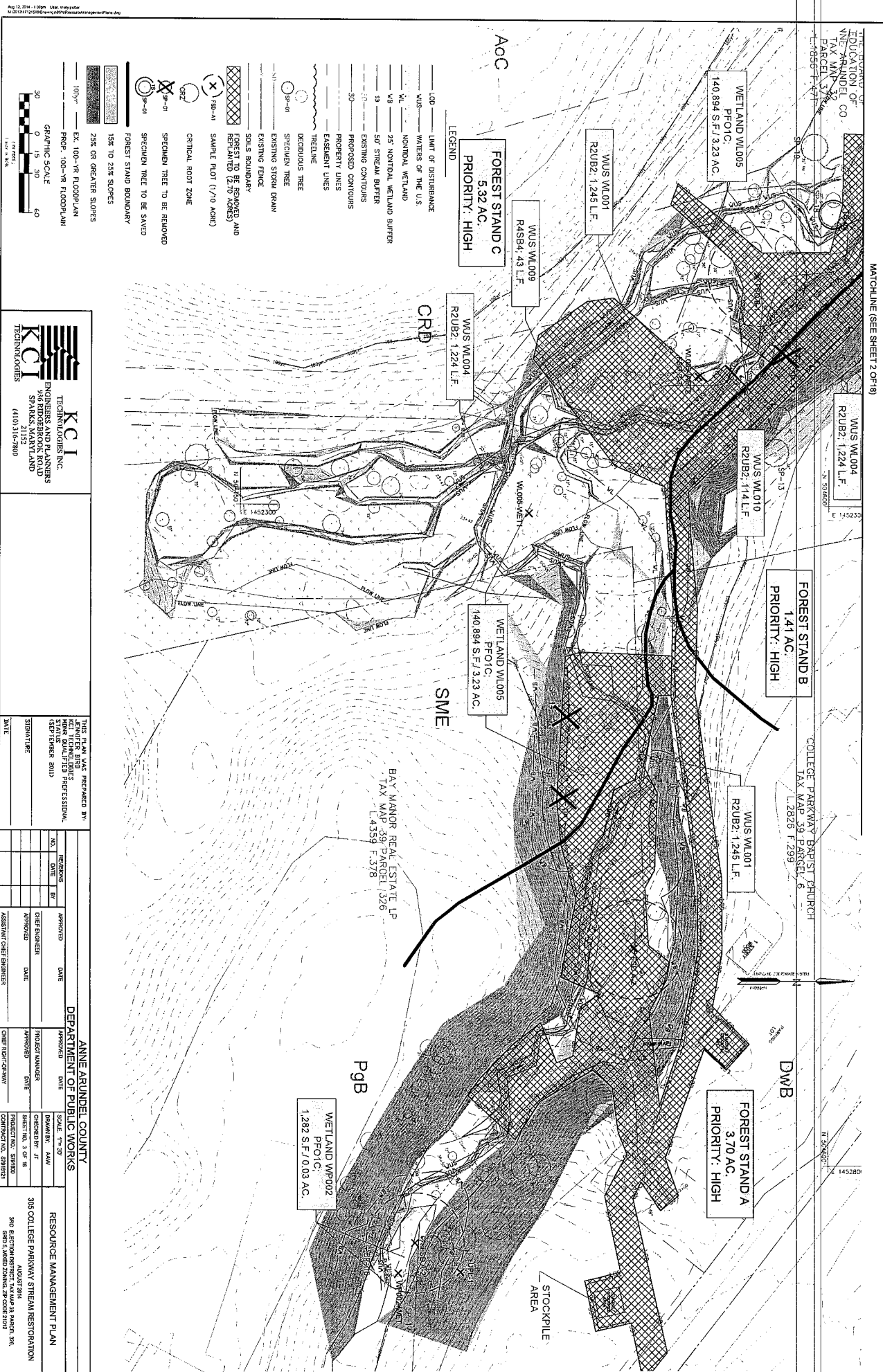
Review of the latest published version of the National Register of Historic Places indicates that no registered properties listed as eligible for inclusion, therein, are located at the site of the proposed work. Currently unknown archeological, scientific, prehistoric, or historical data may be lost or destroyed by the work to be accomplished under the request permit.

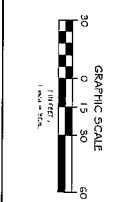
Any person who has an interest which may be adversely affected by the issuance of this permit may request a public hearing. The request, which must be in writing, must be received by the District Engineer, U.S. Army Corps of Engineers, Baltimore District, [Attn: Mr. Richard Kibby, CENAB-OP-RMN], P.O. Box 1715, Baltimore, Maryland 21203-1715, within the comment period as specified above to receive consideration. Also it must clearly set forth the interest which may be adversely affected by this activity and the manner in which the interest may be adversely affected.

It is requested that you communicate this information concerning the proposed work to any persons know by you to be interested and not being known to this office, who did not receive a copy of this notice.

FOR THE DISTRICT ENGINEER:

Joseph P. DaVia
Chief, Maryland Section Northern





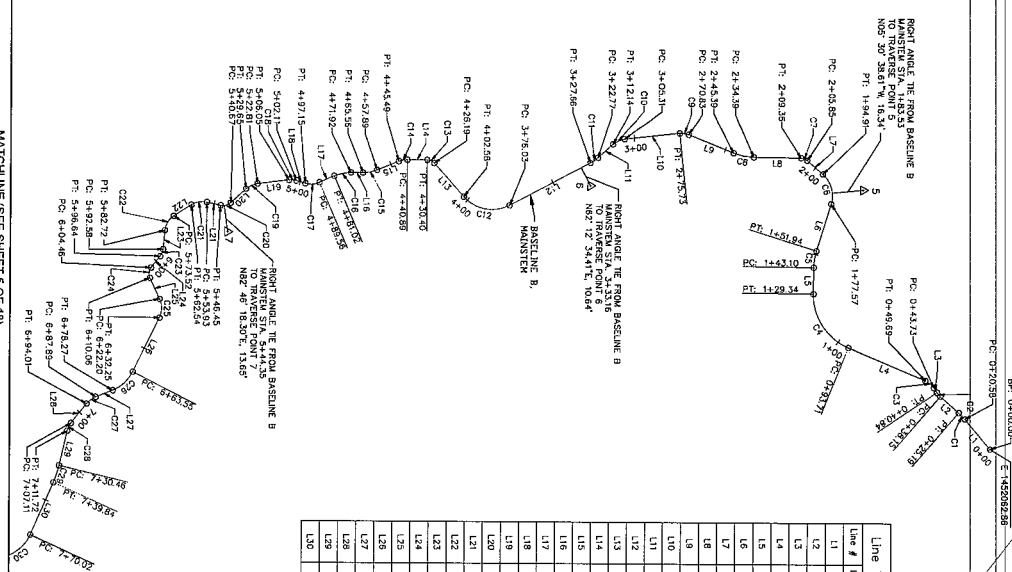
Professional Certification, I hereby certify that these plans were prepared and approved by me, and I am a duly licensed professional engineer in the State of Maryland, License No. 31201, Expiration Date: 12/31/2015.

Signature: _____ Date: _____



REVISIONS				APPROVED				DEPARTMENT OF PUBLIC WORKS				GEOMETRY PLAN			
NO.	DATE	BY	REASON	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE
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MATCHLINE (SEE SHEET 6 OF 18)



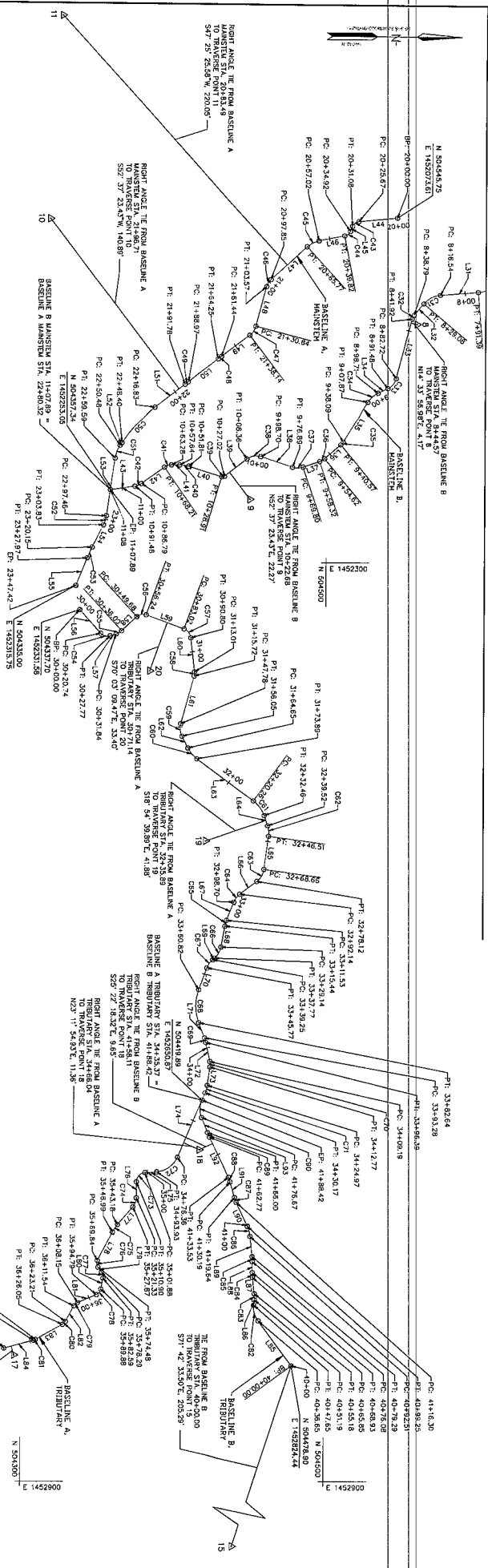
Line Table: Mainstem B			
Line #	Length	Direction	
1	20.56	S47° 46' 41.86\"	
2	12.98	S41° 01' 40.90\"	
3	2.89	S58° 28' 44.07\"	
4	44.02	S27° 19' 22.33\"	
5	13.78	N69° 38' 58.87\"	
6	25.63	N72° 45' 01.72\"	
7	16.53	S41° 01' 40.90\"	
8	25.44	S27° 46' 00.07\"	
9	25.44	S27° 46' 00.07\"	
10	25.44	S27° 46' 00.07\"	
11	10.63	S41° 01' 40.90\"	
12	45.37	S27° 47' 25.60\"	
13	12.40	S27° 57' 23.07\"	
14	10.49	S27° 57' 23.07\"	
15	16.36	S27° 57' 23.07\"	
16	6.36	S27° 57' 23.07\"	
17	8.54	S27° 42' 40.96\"	
18	4.56	S15° 46' 00.96\"	
19	15.76	S27° 42' 40.96\"	
20	11.02	S47° 22' 53.93\"	
21	7.46	S12° 51' 47.83\"	
22	10.98	S32° 00' 18.35\"	
23	9.88	S54° 42' 35.71\"	
24	7.82	S31° 32' 46.85\"	
25	12.14	N64° 15' 50.47\"	
26	31.31	S30° 26' 05.67\"	
27	9.62	S27° 16' 46.87\"	
28	13.11	S53° 28' 28.07\"	
29	18.24	S16° 51' 37.64\"	
30	30.17	S58° 06' 32.07\"	

Curve Table: Mainstem B			
Curve #	Radius	Length	Delta
C1	30.00	4.61	84°00'37\"
C2	10.00	2.70	157°03'40\"
C3	10.00	5.86	157°03'40\"
C4	30.00	35.62	180°13'46\"
C5	30.00	6.65	185°33'75\"
C6	15.00	17.24	68°33'75\"
C7	5.00	3.51	40°12'45\"
C8	30.00	11.00	219°03'33\"
C9	10.00	4.89	280°14'35\"
C10	11.00	8.83	350°07'52\"
C11	20.00	4.88	149°02'10\"
C12	20.00	26.53	78°03'56\"
C13	5.00	4.21	48°15'20\"
C14	12.00	4.60	21°08'33\"
C15	20.00	7.66	21°08'33\"
C16	22.00	8.10	23°04'18\"
C17	11.00	7.59	39°31'42\"
C18	10.00	3.94	222°02'07\"
C19	11.00	8.84	350°07'52\"
C20	6.00	5.29	50°14'18\"
C21	11.00	8.61	44°52'07\"
C22	10.00	9.20	52°07'15\"
C23	7.00	4.50	33°09'40\"
C24	5.00	3.60	64°13'28\"
C25	20.00	14.71	42°09'12\"
C26	12.00	8.11	29°11'43\"
C27	10.00	4.61	28°20'04\"
C28	50.00	9.38	104°05'57\"
C29	20.00	21.37	81°12'39\"

Tolerance Coordinate List			
Point #	Northing	Easting	Elevation
5	50096.856	149923.139	12.04
6	50091.453	149928.613	12.89
7	50470.340	149951.872	13.91

COLLEGE PARKWAY

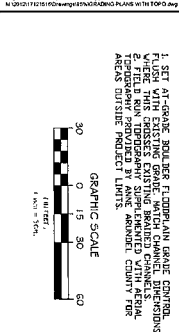
MATCHLINE (SEE SHEET 4 OF 19)



Line #	Length	Direction
L1	20.15	S 47° 41' E 18.66'E
L2	9.21	S 49° 46' 28.66'E
L3	40.80	S 75° 36' 00.00'E
L4	7.22	S 52° 14' 06.14'E
L5	30.22	S 56° 14' 46.67'E
L6	14.48	S 49° 07' 12.04'E
L7	21.81	S 17° 56' 37.42'W
L8	18.59	S 17° 56' 37.42'W
L9	22.90	S 17° 56' 37.42'W
L10	18.59	S 17° 56' 37.42'W
L11	5.64	S 17° 56' 37.42'W
L12	16.35	S 17° 56' 37.42'W
L13	16.41	S 17° 56' 37.42'W

Curve #	Radius	Length	Delta	Tangent	Chord	Chord Length
C1	16.00	12.54	44.50/28.00'	5.01	5.27	5.45
C2	7.00	3.13	25.37/34.00'	1.59	0.82	1.53
C3	10.00	8.78	50.11/36.00'	4.08	5.00	20.04/36.00'
C4	16.00	8.16	32.47/26.00'	4.71	5.41	37.34/26.00'
C5	6.00	2.49	17.48/28.00'	1.25	0.47	32.47/26.00'
C6	10.00	3.70	21.13/30.00'	1.87	0.79	32.47/26.00'
C7	11.00	7.09	36.56/30.00'	3.67	3.97	47.37/30.00'
C8	10.00	9.69	54.09/31.00'	5.24	5.97	47.37/30.00'
C9	2.00	1.89	3.40/31.00'	1.02	0.10	44.50/28.00'
C10	20.00	5.34	14.32/30.00'	2.34	0.87	31.00/28.00'
C11	8.00	4.89	25.37/31.00'	2.39	0.71	31.00/28.00'
C12	10.00	4.89	25.37/31.00'	2.39	0.71	31.00/28.00'

Line Table: Monstern A			
Line #	Length	Direction	
L44	25.87	S 25° 21.52'E	
L45	3.84	S 27° 21.51'E	
L46	71.18	S 11° E 53.89'E	
L47	32.07	S 42° 34.44'E	
L48	57.25	S 22° 44.85'E	
L49	23.30	S 37° 22.36.57'E	
L50	24.70	S 37° 41' 56.33"E	
L51	25.05	S 37° 22' 36.27"E	
L52	2.08	S 56° 27' 55.22"E	
L53	17.38	S 81° 34' 16.80"E	
L54	36.82	S 83° 19' 06.80"E	
L55	18.45	S 87° 47' 47.04"E	

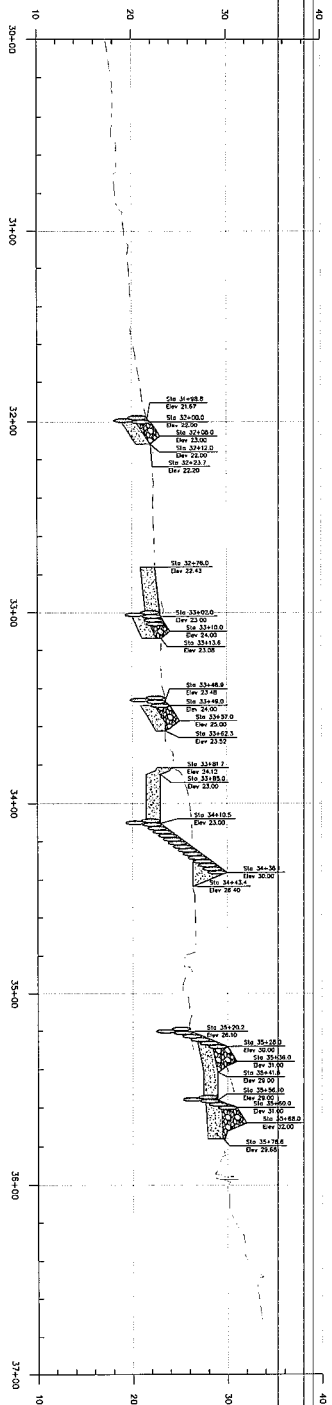
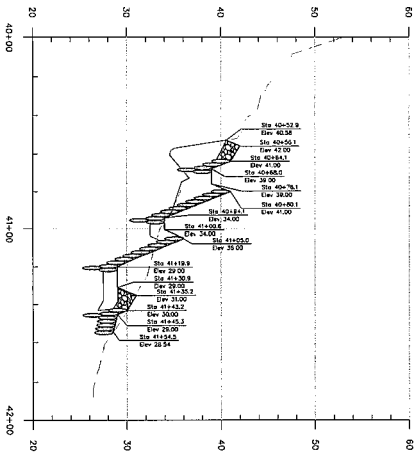


Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am duly licensed professional engineer under the laws of the state of Maryland, License No. 31201, Expiration Date: 1/24/2015.

SIGNATURE _____ DATE _____



ANNE ARUNDEL COUNTY DEPARTMENT OF PUBLIC WORKS				GRAADING PLAN	
NO.	DATE	BY	APPROVED	DATE	SCALE 1"=30'
OWNER/OWNER	DATE		PROJECT MANAGER	DATE	
APPROVED	DATE		CHECKED BY "J"	SHEET NO. 6 OF 40	
ASSISTANT PROJECT ENGINEER			PROJECT NO. 291800	CONTRACT NO. 59A103	
			CHECK RIGHT-OF-WAY		
305 COLLEGE PARKWAY STREAM RESTORATION					
ANNE ARUNDEL COUNTY					
305 COLLEGE PARKWAY, 7.5 AC, 305 PARKWAY, 2ND					
GEO. L. WEBB ZONING, 2P 0055-200-2					

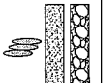
TRIBUTARY ATRIBUTARY B

LEGEND

EXISTING GROUND
PROPOSED GRADE

SAND/WOODCHIP MIXTURE

Boulders

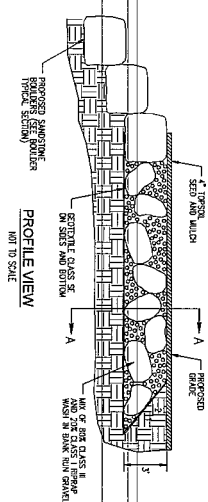


KCI
TECHNOLOGIES INC.
ENGINEERS AND PLANNERS
366 RIDGEBROOK ROAD
SPARKS, MARYLAND
21152
(410) 316-7600

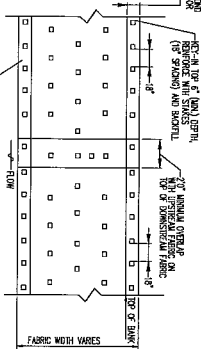
Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the state of Maryland, License No. 31201, Expiration Date: 12/4/2015."

DATE _____

[illegible]



AT-GRADE BOULDER FLOODPLAIN GRADE CONTROL
NO. 10 3'x11'



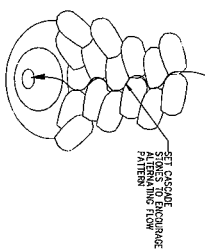
TYPICAL PLAN VIEW NATURAL FIBER MATTING

1. NATURAL FIBER MATTING TO BE ROLLED LENGTHWISE ALONG STEEL BANK EXTENDING TO THE BOTTOM OF THE PROTECTION AND A MINIMUM OF ONE FOOT PAST TOP OF BANK IF ANOTHER BANK IS TO BE INSTALLED AND BANK OVERLAP SHOULD BE A MINIMUM OF ONE FOOT AND SHOULD BE SECURED WITH STAPLES.
2. NATURAL FIBER MATTING IS TO BE INSTALLED ON ALL GRADED BANK SLOPES THAT ARE NOT PROTECTED BY STONE OR OR REINFORCED BANK PROTECTIONS.

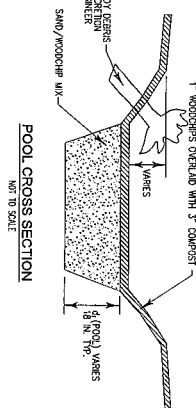
LOCATION	STRUCTURE	WIDTH (W) (FT)	DEPTH (D) (FT)	LENGTH	COBBLE %
TRIQUINARY A	RIFLE WEIR	30'	1.5'	8'	8"
	CASCADE	30'	0.75'	20'	N/A
	RIFLE WEIR	20'	1.0'	8'	8"
TRIQUINARY B	CASCADE	40'	0.75'	10'	N/A
	RIFLE WEIR	20'	3.0'	8'	12"
	RIFLE WEIR	55'	3.25'	8'	12"

**** BOULDERS SHALL BE SANDSTONE, AND ANGULAR AND BLOCKY IN SHAPE**

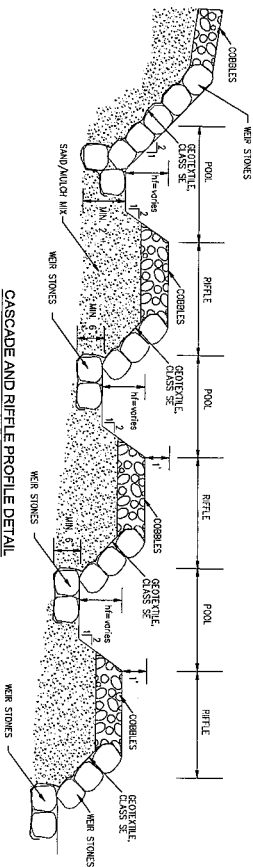
SAND/WOODCHIP MIXTURE	
80%	SAND (0.02" TO 0.04")
20%	WOODCHIPS



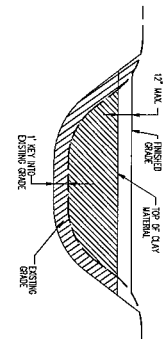
CASCADE PLAN DETAIL



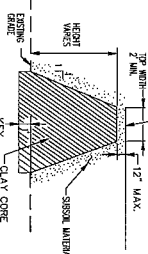
POOL CROSS SECTION



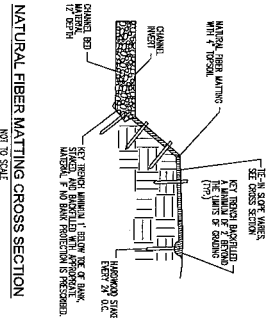
CASCADE AND RIFLE PROFILE DETAIL



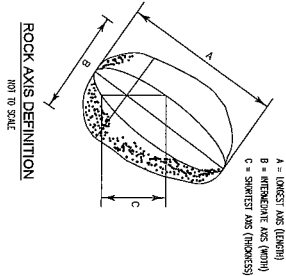
ELEVATION



CROSS SECTION



NATURAL FIBER MATTING CROSS SECTION



ROCK AXIS DEFINITION

A = LONGEST AXIS (LENGTH)
B = INTERMEDIATE AXIS (WIDTH)
C = SHORTEST AXIS (THICKNESS)

Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am duly licensed professional engineer under the laws of the state of Maryland, License No. 31201, Expiration Date: 1/24/2015.



























ENGINEERS AND PLANNERS
936 RIDGEBROOK ROAD
SPARKS, MARYLAND
21152
(410) 316-7800

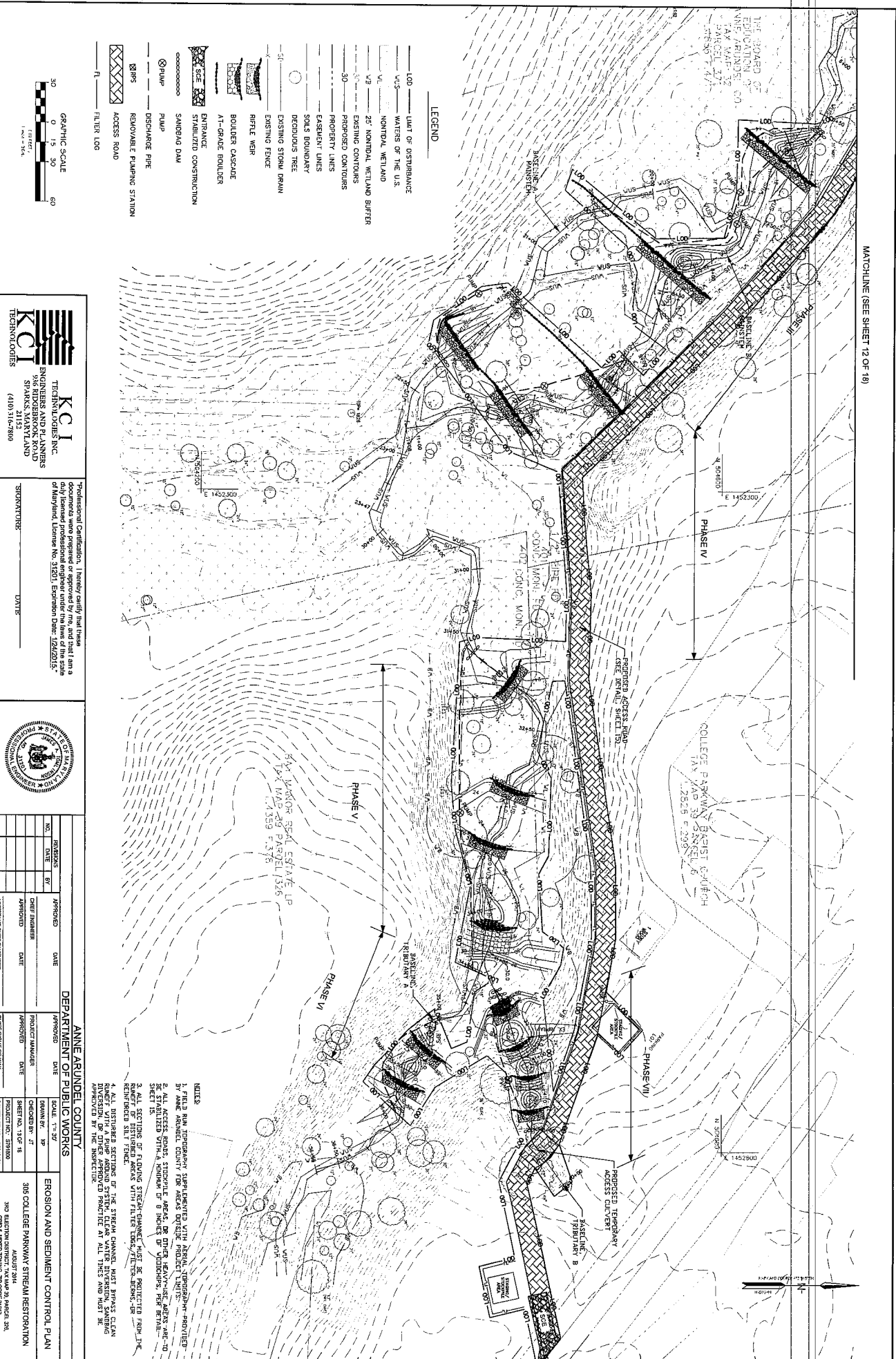
SIGNATURE _____ DATE _____

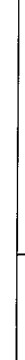
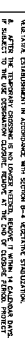
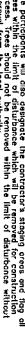
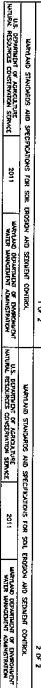
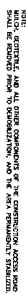


ANNE ARUNDEL COUNTY									
DEPARTMENT OF PUBLIC WORKS									
REQUESTING		APPROVED		DATE		DATE		APPROVED	
NO.	DATE	BY							
CHIEF ENGINEER		CHIEF ENGINEER		DATE		DATE		APPROVED	
APPROVED		APPROVED		DATE		DATE		APPROVED	
ASSISTING CHIEF ENGINEER		ASSISTING CHIEF ENGINEER		DATE		DATE		APPROVED	
PROJECT NUMBER		PROJECT NUMBER		DATE		DATE		APPROVED	
SHEET NO. 11 OF 16		SHEET NO. 11 OF 16		DATE		DATE		APPROVED	
PROJECT NO. 278000		PROJECT NO. 278000		DATE		DATE		APPROVED	
CONTRACT NO. 278000		CONTRACT NO. 278000		DATE		DATE		APPROVED	
STANDARD NOTES & DETAILS		STANDARD NOTES & DETAILS		DATE		DATE		APPROVED	
395 COLLEGE PARKWAY STREAM RESTORATION		395 COLLEGE PARKWAY STREAM RESTORATION		DATE		DATE		APPROVED	
3RD ELECTION DISTRICT MAP BY PARCEL 306		3RD ELECTION DISTRICT MAP BY PARCEL 306		DATE		DATE		APPROVED	
ENG & WEBB DOWNS, 2P/0000 2012		ENG & WEBB DOWNS, 2P/0000 2012		DATE		DATE		APPROVED	



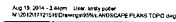
- | | | | | |
|---|-----|---------------------------|-----|------------------------------|
|  | ___ | LOO | ___ | UNIT OF DISTANCE |
|  | ___ | VIS | ___ | WATERS OF THE U.S. |
|  | ___ | VI | ___ | NONFALL WETLAND |
|  | ___ | VI | ___ | 25' CONTIGUAL WETLAND BUFFER |
|  | ___ | 30 | ___ | EXISTING CONTOURS |
|  | ___ | 30 | ___ | PROPOSED CONTOURS |
|  | ___ | PROPERTY LINES | ___ | |
|  | ___ | EXISTENT LINES | ___ | |
|  | ___ | SOL'S BOUNDARY | ___ | |
|  | ___ | DECIDUOUS TREE | ___ | |
|  | ___ | EXISTING STORM DRAIN | ___ | |
|  | ___ | EXISTING FENCE | ___ | |
|  | ___ | RIFLE HOLE | ___ | |
|  | ___ | Boulder cascade | ___ | |
|  | ___ | BL. GRADE Boulder | ___ | |
|  | ___ | ENTRANCE | ___ | |
|  | ___ | STABILIZED CONSTRUCTION | ___ | |
|  | ___ | SANDHILL DAM | ___ | |
|  | ___ | PUMP | ___ | |
|  | ___ | DISCHARGE PIPE | ___ | |
|  | ___ | REMOVABLE PUMPING STATION | ___ | |
|  | ___ | ACCESS ROAD | ___ | |
|  | ___ | FL | ___ | |
|  | ___ | FILTER LOG | ___ | |

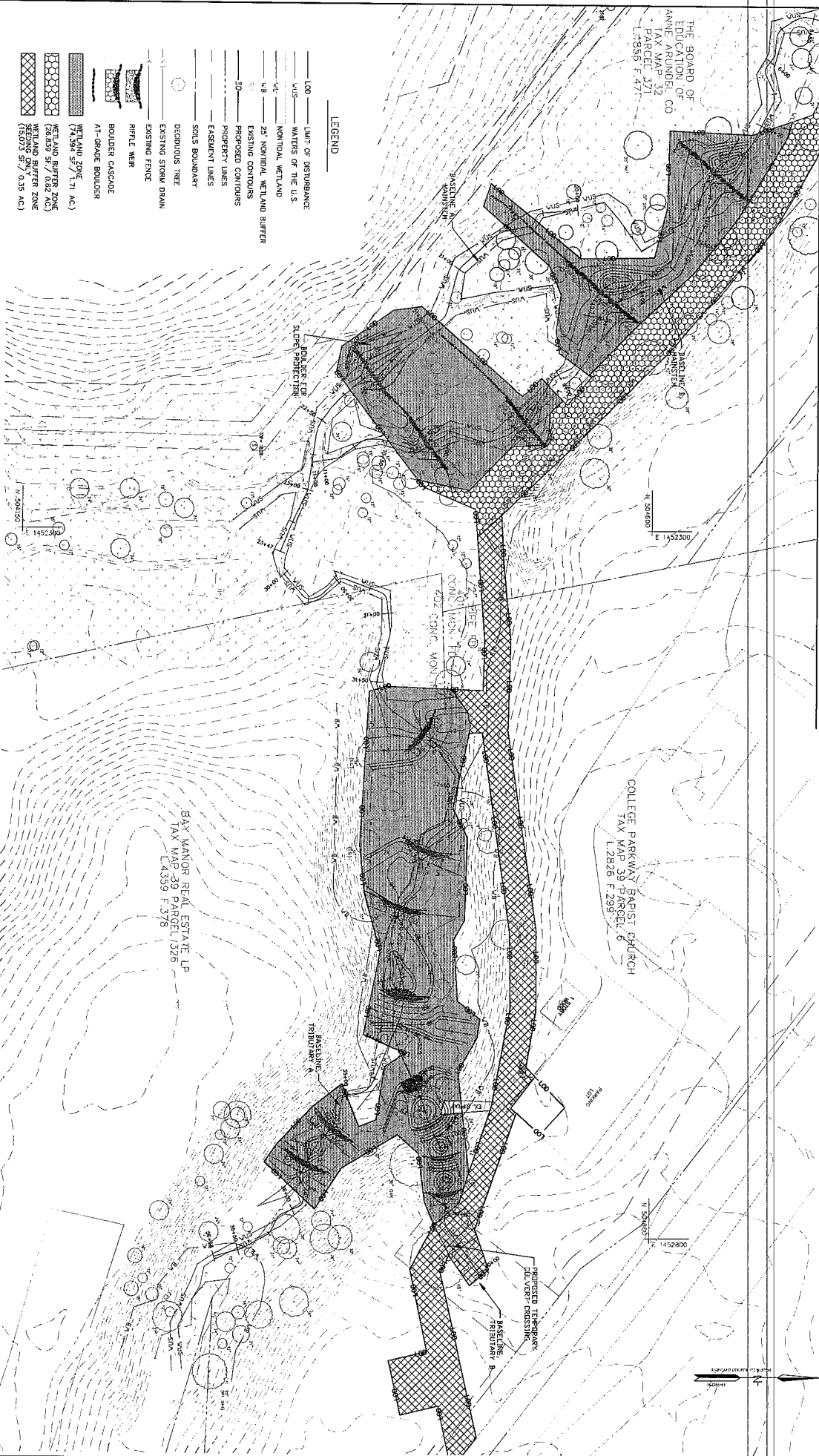




SIGNATURE _____ DATE _____

ANNE ARUNDEL COUNTY							
DEPARTMENT OF PUBLIC WORKS							
REGISTRATION BY		APPROVED					
NO.	DATE		DATE	APPROVED	DATE	SCALE AS SHOWN	EROSION & SEDIMENT CONT
		CHEF ENGINEER				DRAWN BY: JP	
		APPROVED		PROJECT MANAGER	DATE	CHECKED BY: JH	305 COLLEGE PARKWAY STREAM
				APPROVED	DATE	SHEET NO. 1 OF 4	AUGUST 2014
						SECTION NUMBER:	

[illegible]



KCI
TECHNOLOGIES
ENGINEERS AND PLANNERS
956 RIDGEBROOK ROAD
SPARKS, MARYLAND
21152
(410) 316-7800

SIGNATURE _____ DATE _____



DATE FORN COUNT		DEPARTMENT OF PUBLIC WORKS		LANDSCAPE PLAN	
RECORDING NO.	DATE	APPROVED DATE	APPROVED DATE	SCALE: 1" = 30'	
CHEF ENGINEER	APPROVED DATE	PROJECT MANAGER	APPROVED DATE	DRAWN BY: JF	
APPROVED DATE		APPROVED DATE		CHECKED BY: JT	
				SHEET NO. 17 OF 18	
				PROJECT NO. 2018001	305 COLLEGE PARKWAY STREAM RESTORATION
				ASSIGNED DATE: 08/01/2018	ALUMINUM 1/4"
				CONTACT NO. 310-5181	3RD ELECTION DISTRICT 14A, 14B, 15A, 15B, 16A, 16B, 17A, 17B, 18A, 18B, 19A, 19B, 20A, 20B, 21A, 21B, 22A, 22B, 23A, 23B, 24A, 24B, 25A, 25B, 26A, 26B, 27A, 27B, 28A, 28B, 29A, 29B, 30A, 30B, 31A, 31B, 32A, 32B, 33A, 33B, 34A, 34B, 35A, 35B, 36A, 36B, 37A, 37B, 38A, 38B, 39A, 39B, 40A, 40B, 41A, 41B, 42A, 42B, 43A, 43B, 44A, 44B, 45A, 45B, 46A, 46B, 47A, 47B, 48A, 48B, 49A, 49B, 50A, 50B, 51A, 51B, 52A, 52B, 53A, 53B, 54A, 54B, 55A, 55B, 56A, 56B, 57A, 57B, 58A, 58B, 59A, 59B, 60A, 60B, 61A, 61B, 62A, 62B, 63A, 63B, 64A, 64B, 65A, 65B, 66A, 66B, 67A, 67B, 68A, 68B, 69A, 69B, 70A, 70B, 71A, 71B, 72A, 72B, 73A, 73B, 74A, 74B, 75A, 75B, 76A, 76B, 77A, 77B, 78A, 78B, 79A, 79B, 80A, 80B, 81A, 81B, 82A, 82B, 83A, 83B, 84A, 84B, 85A, 85B, 86A, 86B, 87A, 87B, 88A, 88B, 89A, 89B, 90A, 90B, 91A, 91B, 92A, 92B, 93A, 93B, 94A, 94B, 95A, 95B, 96A, 96B, 97A, 97B, 98A, 98B, 99A, 99B, 100A, 100B

