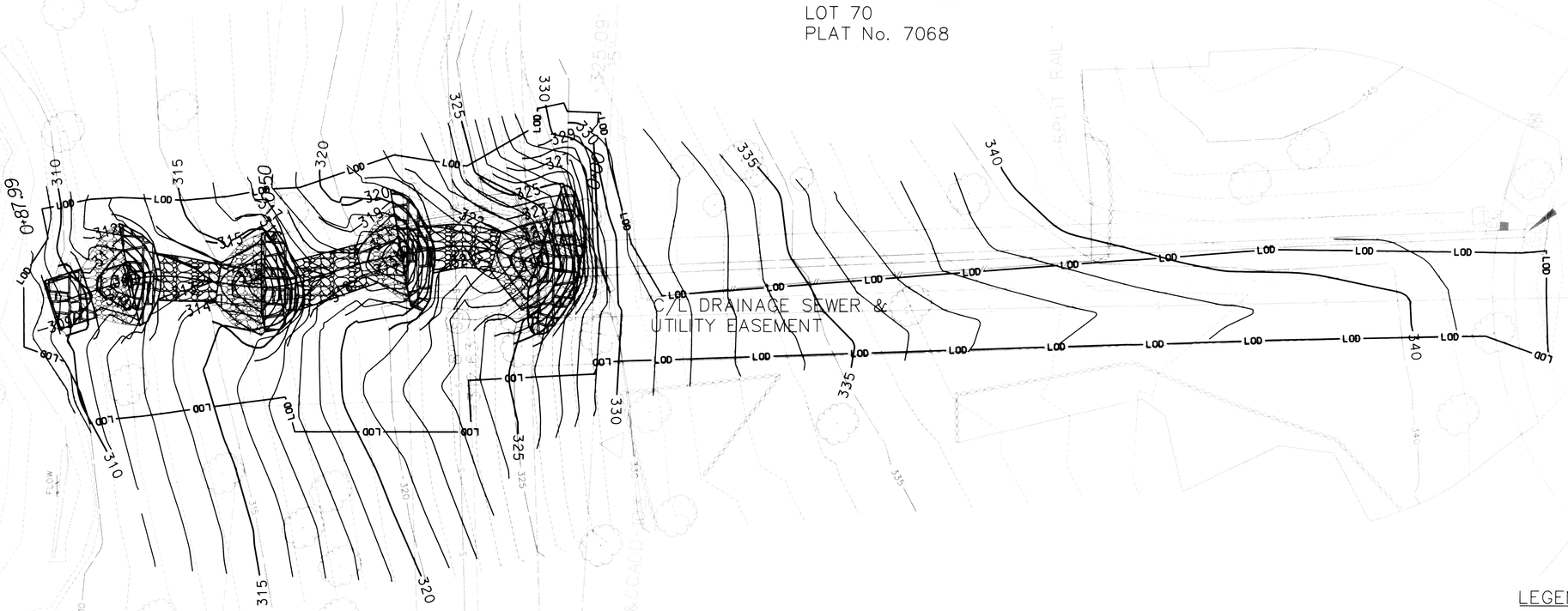
100YR.FLOOD PLAIN
SEWER WATER , UTILITY
DRAINAGE & SW
MANAGEMENT ACCESS
EASEMENT
TAX MAP35
"HICKORY RIDGE"
PLAT No. 7068
SHEET 2 AND 3

DINMORE MATTHEW D
TENNOR MAURA K J/T
LIBER 12053 FOLIO 18
TAX MAP35
"HICKORY RIDGE"
LOT 70
PLAT No. 7068



OPEN SPACE LOT 96
PLAT 7068

C/L 20' DRAINAGE
SEWER & UTILITY
EASEMENT

BIALEK BENJAMIN MARK
JUNG DEBRA T/E
LIBER 1844 FOLIO 98
TAX MAP35
"HICKORY RIDGE"
LOT 71
PLAT No. 7068

NOTE: ALL TREES WITHIN THE LOD ARE SUBJECT TO REMOVAL. CONTRACTOR SHALL AVOID IMPACTS TO TREES WHERE POSSIBLE

LEGEND

LIMIT OF DISTRURBANCE	LOD
EXISTING MAJOR CONTOURS	335
EXISTING MINOR CONTOURS	
PROPOSED CONTOURS	315
EXISTING FENCE	
EXISTING PLANTER	
PROPERTY LINES	
EXISTING EASEMENT	
EXISTING TREES >10" DBH	
WEIR STONES	
RIFFLE	
RIFFLE TAIL	
AS-BUILT CONTOURS	335

STATE OF MARYLAND
KATHY LYNN HOVERMAN
No. 38311
PROFESSIONAL ENGINEER
8/24/11

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. 38311, EXPIRATION DATE: JANUARY 6, 2012

Date/Time: 8/24/2011 10:50:10 AM Login Name: khoverman
File: M:\2008\01081795.34\Design\Plans\GMA Emp

NO.	REVISIONS DESCRIPTION	DATE

KCI FILE: M:\ 2008 \ 01081795.34 \

936 RIDGEBROOK ROAD
SPARKS, MARYLAND 21152
TELEPHONE: (410) 316-7800
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KCI TECHNOLOGIES

GREAT OAK WAY
OUTFALL STABILIZATION

HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
STORMWATER MANAGEMENT DIVISION
6751 COLUMBIA GATEWAY DRIVE
COLUMBIA, MD 21046

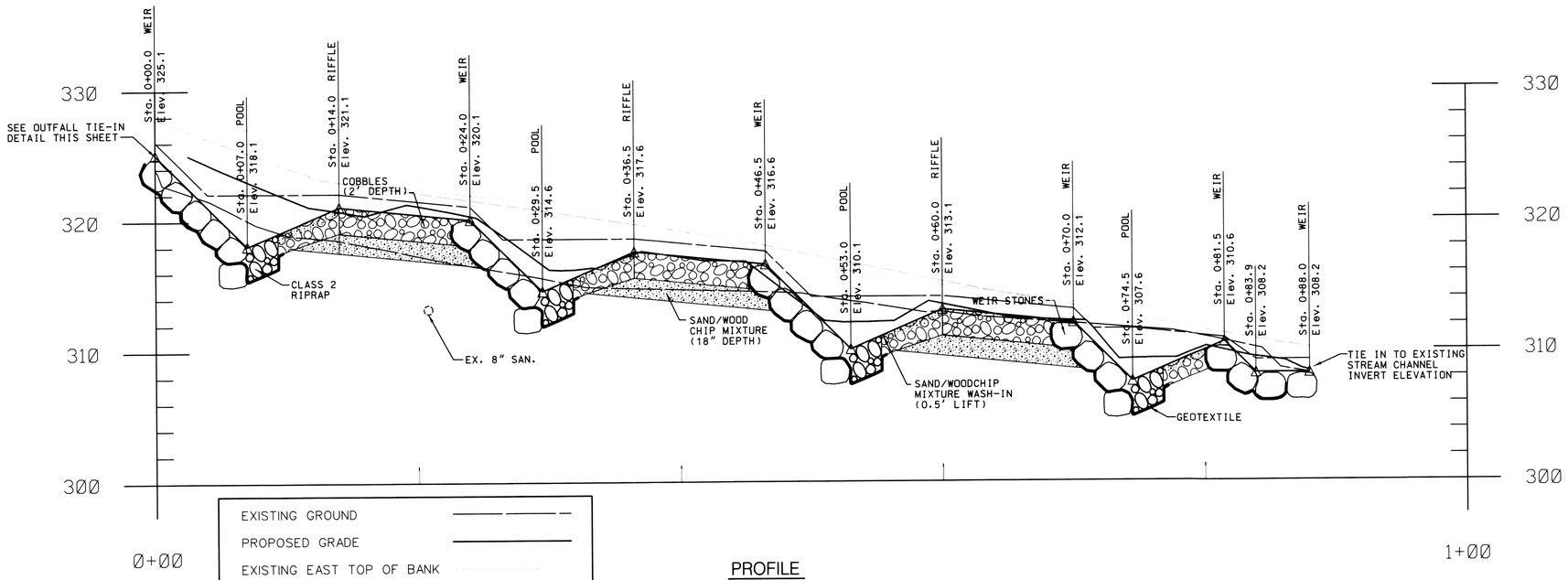
HOWARD COUNTY DEPARTMENT OF PARKS AND RECREATION
7120 OAKLAND MILLS ROAD
COLUMBIA, MD 21046

GRADING PLAN

SCALE:	1" = 10'
DATE:	JUNE 2011
KCI JOB NO.:	01-081795.34
CAPITAL PROJECT NO.:	D-1158
PERMIT ISSUE:	
CONSTRUCTION ISSUE:	

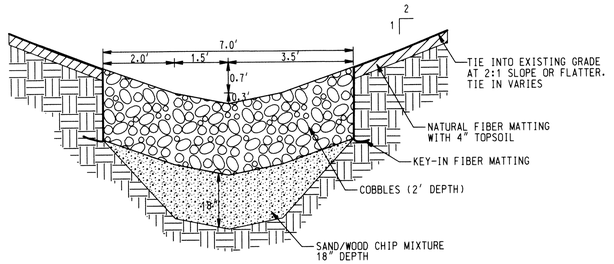
AS-BUILT

SHEET NO.: 3 OF 9

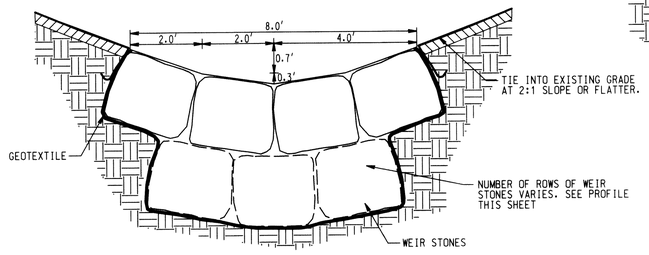


EXISTING GROUND
PROPOSED GRADE
EXISTING EAST TOP OF BANK
EXISTING WEST TOP OF BANK
PROPOSED TOP OF BANK
AS-BUILT GRADE

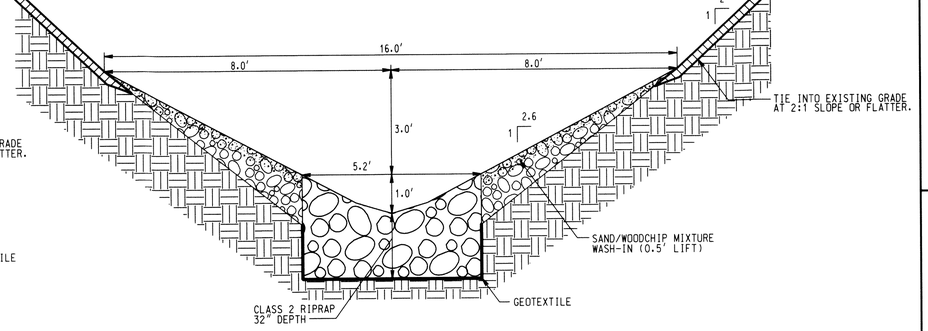
PROFILE
SCALE: 1" = 5'



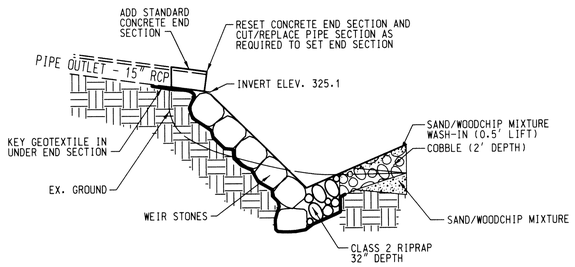
TYPICAL SECTION – RIFFLE
NOT TO SCALE



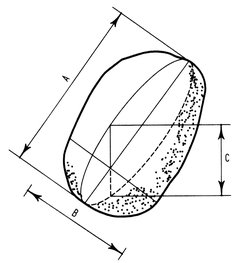
TYPICAL SECTION – WEIR
NOT TO SCALE



TYPICAL SECTION – POOL
NOT TO SCALE



OUTFALL TIE-IN DETAIL
NOT TO SCALE



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

ROCK AXIS DEFINITION
NOT TO SCALE

SIZES FOR STONE TYPES			
AXIS	A (LONGEST)	B (INTERMEDIATE)	C (SHORTEST)
STONE TYPE	MAX.	RANGE	MIN.
WEIR	2.0'	2.0' - 3.0'	2.0'
COBBLES	2-6" NATURALLY ROUNDED STONE		

NOTE: BOTH CLASS 2 AND WEIR STONES SHALL BE SANDSTONE OR GRANITE IF SANDSTONE IS NOT AVAILABLE.
GRANITE SHALL BE ANGULAR AND BLOCKY IN SHAPE.

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

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BY: Ashley, Pilner Division: P050 Natural Res GMA Emp
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PROFILE AND STREAM DETAILS

SCALE: AS SHOWN
DATE: JUNE 2011
KCI JOB NO.: 01-081795.34
CAPITAL PROJECT NO.: D-1158
PERMIT ISSUE:
CONSTRUCTION ISSUE:

AS-BUILT

SHEET NO.: 4 OF 9