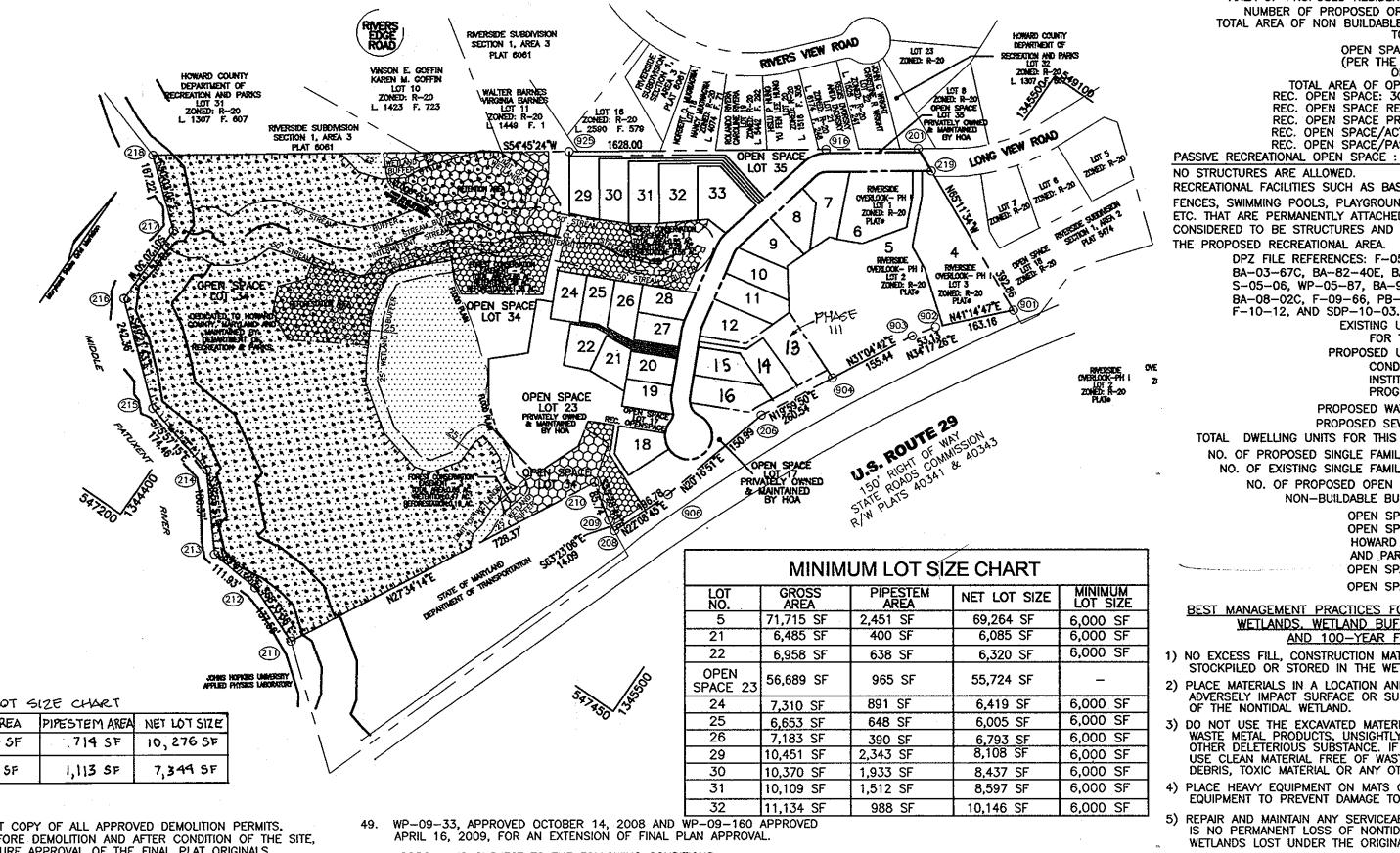
GENERAL NOTES

- 1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF HOWARD COUNTY PLUS MSHA STANDARDS AND SPECIFICATIONS IF APPLICABLE.
- THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS/BUREAU OF ENGINEERING/CONSTRUCTION INSPECTION DIVISION AT (410) 313-1880 AT LEAST FIVE(5) WORKING DAYS PRIOR
- TO THE START OF WORK. 3. THE CONTRACTOR SHALL NOTIFY "MISS UTILITY" AT 1-800-257-7777 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION WORK BEING DONE.
- 4. TRAFFIC CONTROL DEVICES, MARKINGS AND SIGNING SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). ALL STREET AND REGULATORY SIGNS SHALL BE IN PLACE PRIOR TO THE PLACEMENT OF ANY ASPHALT.
- STREET LIGHT PLACEMENT AND THE TYPE OF FIXTURE AND POLE SHALL BE IN ACCORDANCE WITH THE HOWARD COUNTY DESIGN MANUAL, VOLUME III (1993) AND AS MODIFIED BY GUIDELINES FOR STREET LIGHTS IN RESIDENTIAL DEVELOPMENTS (JUNE 1993)". A MINIMUM SPACING OF 20' SHALL BE MAINTAINED BETWEEN ANY STREETLIGHT AND ANY TREE
- 6. THE TOPOGRAPHY SHOWN HEREON IS BASED ON AN AERIAL TOPOGRAPHIC SURVEY WITH TWO FOOT CONTOUR INTERVALS PREPARED BY POTOMAC AERIAL SURVEYS INC., DATED 2004.
- THE COORDINATES SHOWN HEREON ARE BASED UPON THE HOWARD COUNTY GEODETIC CONTROL. WHICH IS BASED UPON THE MARYLAND STATE PLANE COORDINATE SYSTEM. HOWARD COUNTY MONUMENT NOS. 41C1 AND 0057 WERE USED FOR THIS PROJECT.
- 8. ALL ASPECTS OF THE PROJECT ARE IN CONFORMANCE WITH THE LATEST OWARD COUNTY STANDARDS UNLESS WAIVERS HAVE BEEN APPROVED.
- 9. DEED REFERENCE: L. 9351 F.200 ; PARCEL 179
- 10. WATER AND SEWER SERVICE TO THESE LOTS WILL BE GRANTED UNDER THE PROVISIONS OF SECTION 18.122.B OF THE HOWARD COUNTY CODE WATER WILL BE PROVIDED THROUGH CONTRACT NO. 34-4448-D. SEWER WILL BE PROVIDED THROUGH CONTRACT 34-4448-D. PUBLIC WATER AND SEWER ALLOCATION WILL BE GRANTED AT THE TIME OF ISSUANCE OF THE BUILDING PERMIT IF CAPACITY IS AVAILABLE AT THAT TIME.
- STORM WATER MANAGEMENT TO BE PROVIDED FOR THIS DEVELOPMENT BY A POCKET POND AND WILL BE PRIVATELY OWNED AND MAINTAINED BY THE HOA. RAINGARDENS WILL PROVIDE WATER QUANTITY FOR LOTS 29-32. Rev IS PROVIDED BY GRAVEL TRENCH AND WQV IS PROVIDED WITHIN THE POCKET POND.
- 12. FOREST STAND DELINEATION PLAN PREPARED BY ROBERT H. VOGEL ENGINEERING, INC., DATED NOVEMBER 2004. 13. FOREST CONSERVATION PLAN PREPARED BY ROBERT H. VOGEL ENGINEERING, INC., DATED OCT. 2006.
- 14. THE FOREST CONSERVATION EASEMENT HAS BEEN ESTABLISHED TO FULFILL THE REQUIREMENTS OF SECTION 16.1200 OF THE HOWARD COUNTY CODE AND FOREST ACT. NO CLEARING, GRADING OR CONSTRUCTION S PERMITTED WITHIN THE FOREST CONSERVATION EASEMENT; HOWEVER FOREST MANAGEMENT PRACTICES AS DEFINED IN THE DEED OF FOREST CONSERVATION EASEMENT ARE ALLOWED.
- 15. TOTAL FOREST CONSERVATION OBLIGATION IS 4.17 AC. TO BE FULFILLED BY RETENTION OF 2.04 AC (\$17,773), REFORESTATION OF 2.13 AC.. (\$ 46,392.00) TOTAL FINANCIAL SURETY OBLIGATION IS \$64,165.00.
- STREET TREES ARE PROVIDED FOR THIS PROJECT IN ACCORDANCE WITH SECTION 16.124 (e) (I) OF THE SUBDIVISION REGULATIONS AND THE LANDSCAPE MANUAL. A FINANCIAL SURETY IN THE AMOUNT OF \$13,800.00 TO BE POSTED AS PART OF THE DEVELOPER'S AGREEMENT FOR REQUIRED 46 PUBLIC STREET TREES. 17. APFO TRAFFIC STUDY PREPARED BY THE TRAFFIC GROUP, DATED OCTOBER 3, 2008 AND APPROVED IN
- CONJUNCTION WITH SP-09-04. 18. LANDSCAPING FOR LOTS 4-35 IS PROVIDED IN ACCORDANCE WITH A CERTIFIED LANDSCAPE PLAN INCLUDED WITH THIS ROAD CONSTRUCTION PER SET IN ACCORDANCE WITH THE SECTION 16.124 OF THE HOWARD COUNTY CODE AND THE LANDSCAPE MANUAL
- 19. ALL LANDSCAPING REQUIREMENTS AS SET FORTH IN SECTION 16.124 OF THE HOWARD COUNTY SUBDIVISION REGULATIONS AND THE LANDSCAPE MANUAL SHALL BY COMPLIED WITH.
- 20. THIS PROPERTY IS LOCATED WITHIN THE METROPOLITAN DISTRICT.
- 21. TO THE BEST OF THE OWNERS KNOWLEDGE, THERE ARE NO CEMETERIES, GRAVE SITES, OR HISTORIC STRUCTURES LOCATED ON THE SUBJECT PROPERTY.
- 22. STREET TREES ARE REQUIRED FOR THIS SUBDIVISION IN ACCORDANCE WITH SECTION 16.124(e)(1) OF THE SUBDIVISION REGULATIONS AND THE LANDSCAPE MANUAL.
- 23. A NOISE STUDY WAS PERFORMED BY ROBERT H. VOGEL ENGINEERING, INC., DATED OCTOBER 18, 2006 AND APPROVED BY HOWARD COUNTY. THE 65 dBA NOISE CONTOUR LINE DRAWN ON THIS SUBDIVISION PLAN IS ADVISORY AS REQUIRED BY THE HOWARD COUNTY DESIGN MANUAL CHAPTER 5, REVISED APRIL, 2005 AND CANNOT BE CONSIDERED TO EXACTLY LOCATE THE 65 dBA NOISE EXPOSURE. THE 65 dBA NOISE LINE WAS ESTABLISHED BY HOWARD COUNTY TO ALERT DEVELOPERS, BUILDERS AND FUTURE RESIDENTS THAT AREAS BEYOND THIS THRESHOLD MAY EXCEED GENERALLY ACCEPTED NOISE LEVELS ESTABLISHED BY THE U.S. DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT.
- NO CLEARING, GRADING, OR CONSTRUCTION IS PERMITTED WITHIN THE 100-YR FLOODPLAIN, WETLANDS, STREAMS OR THEIR BUFFERS, EXCEPT AS SPECIFIED IN WP-05-87, AND WP- 07-66. NO CLEARING, GRADING, OR CONSTRUCTION IS PERMITTED WITHIN THE FOREST CONSERVATION EASEMENTS, NO DISTURBANCES ARE PROPOSED UNDER THIS REDESIGNED SUBDIVISION PLAN EXCEPT FOR ESSENTIAL PUBLIC SEWER LINE CONNECTIONS AND STORM DRAIN OUTFALL WEST OF LONG VIEW ROAD IN ACCORDANCE WITH SECTION 16.116(c) OF THE SUBDIVISION **REGULATIONS**
- 25. LOTS 13,14, LOTS 21-26, AND LOTS 29-32 WILL UTILIZE USE-IN-COMMON DRIVEWAYS. HOWARD COUNTY STANDARD DETAIL NO. R-6.03 WILL BE UTILIZED FOR THE ENTRANCE AT THE INTERSECTION OF THE PUBLIC ROAD AND EACH USE-IN-COMMON DRIVEWAY. R-6.03 FOR ALL DRIVEWAYS ACCESS PUBLIC TOAD EXCEPT LOT 18 R-6.05 26. REFUSE COLLECTION, SNOW REMOVAL, AND MAINTENANCE FOR LOTS 13,14, 21-26 AND 29-32 SHALL
- BE PROVIDED AT THE JUNCTION OF EACH PRIVATE USE-IN-COMMON ACCESS EASEMENT AND THE PROP. ROAD.
- 27. TREE PROTECTION FENCING WILL BE PROVIDED AT THE LIMITS OF DISTURBANCE WHERE GRADING IS ADJACENT TO ENVIRONMENTAL AREAS AND RETENTION FOREST CONSERVATION AREAS. 28. ALL SIGN POST USED FOR TRAFFIC CONTROL SIGNS INSTALLED IN THE COUNTY RIGHT-OF-WAY SHALL BE MOUNTED ON A 2" GALVANIZED STEEL, PERFORATED, SQUARE TUBE POST (14 GAUGE) INSERTED INTO A 2-1/2" GALVANIZED
- STEEL, PERFORATED, SQUARE TUBE SLEEVE (12 GAUGE 3' LONG). A GALVANIZED STEEL POLE CAP SHALL BE MOUNTED ON THE TOP OF EACH POST. 29. THE SUBDIVISION PLAN IS SUBJECT TO THE FOLLOWING DPZ FILES, F-05-11, WP-07-66, WP-04-69 (VOID), BA-03-67C, BA-82-40E, BA-891C, BA-952C, SDP-79-16, SDP-83-91, S-05-06, WP-05-87 (VOID), BA-91-36E,
- AND VP-75-05, P-07-08, F-08-23, BA-08-02C, SDP-09-33, & WP-09-33, F-09-66, PB-384, WP-09-119, WP-09-122, F-10-12, SDP-10-03 AND WP-09-160, F-11-015. 30. THE SUBJECT PROPERTY IS ZONED "R-20" IN ACCORDANCE WITH THE 2/2/04 COMPREHENSIVE ZONING PLAN
- AND THE COMP. LITE ZONING REGULATIONS EFFECTIVE ON 7/28/06, AND IS SUBJECT TO THE SUBDIVISION AND LAND DEVELOPMENT REGULATIONS EFFECTIVE 10/2/03 PER COUNCIL BILL 75-2003.
- 31. THIS PLAN IS SUBJECT TO THE AMENDED FIFTH EDITION OF THE SUBDIVISION AND LAND DEVELOPMENT REGULATIONS. DEVELOPMENT OR CONSTRUCTION OF THESE LOTS MUST COMPLY WITH SETBACK AND BUFFER REGULATIONS IN EFFECT AT THE TIME OF SUBMISSION OF THE SITE DEVELOPMENT PLAN, WAIVER PETITION, OR BUILDING AND GRADING PERMITS.
- 32. THERE ARE EXISTING DWELLINGS TO REMAIN LOCATED ON LOTS 4, 5, AND 6. 33. EXISTING UTILITIES ARE BASED ON HOWARD COUNTY RECORDS AND FIELD SURVEY.
- 34. THE WETLANDS DELINEATION STUDY FOR THIS PROJECT WAS PREPARED BY ECO-SCIENCE PROFESSIONALS, INC., DATED JANUARY 20, 2004.
- 35. THE GEOTECHNICAL REPORT FOR THIS PROJECT WAS PREPARED BY HILLIS-CARNES DATED JUNE 26, 2006. 36. WAIVER PETITION WP-07-66 WAS APPROVED ON 2/12/07. THIS WAIVER IS A DEPARTURE FROM SECTION 16.116(a)(2) TO ALLOW GRADING, REMOVAL OF VEGETATIVE COVER AND TREES, AND PAVING DISTURBANCES WITHIN THE 50' INTERMITTENT STREAM BUFFER FOR THE CONSTRUCTION OF THE LONG VIEW ROAD EXTENSION INTO THE SITE WITH ASSOCIATED RETAINING WALL AND FOR THE CONSTRUCTION OF A USE-IN-COMMON DRIVEWAY T-TURN AROUND AND ASSOCIATED RETAINING WALLS WHICH PROVIDE ACCESS TO ACCOMMODATE RESIDENTIAL LOTS. THE WAIVER REMAINS APPLICABLE FOR THE STORM DRAIN OUTFALL AND THE SLOPES ADJACENT TO LONG VIEW ROAD.
- 37. THE 100 YEAR FLOODPLAIN EASEMENT SHOWN ON THESE PLANS IS CONSISTENT WITH THE ELEVATIONS SHOWN ON PLAT NO. 17392 (F-05-11). THE DELINEATION OF THE FLOODPLAIN LIMITS HAS BEEN REVISED TO MATCH THE 100 YEAR WSEL AS PER THE HOWARD COUNTY STUDY WITH THE FIELD RUN TOPOGRAPHY.
- 38. LAND DEDICATED TO HOWARD COUNTY, MARYLAND, FOR THE PURPOSE OF A PUBLIC ROAD IS 0.9780 ACRES.
- 39. DRIVEWAYS SHALL BE PROVIDED PRIOR TO RESIDENTIAL OCCUPANCY TO INSURE SAFE ACCESS FOR FIRE AND EMERGENCY VEHICLES PER THE FOLLOWING MINIMUM REQUIREMENTS:
- A) WIDTH 12 FEET (16 FEET IF SERVING MORE THAN ONE RESIDENCE) B) SURFACE - 6 INCHES OF COMPACTED CRUSHER RUN BASE WITH TAR AND CHIP
- COATINO
- C) GEOMETRY MAXIMUM 14% GRADE, MAXIMUM 10% GRADE CHANGE, AND MINIMUM 45 FOOT TURNING RADIUS
- D) STRUCTURES (CULVERTS/BRIDGES) MUST SUPPORT 25 GROSS TON LOADING (H25 LOADING)
- E) DRAINAGE ELEMENTS CAPABLE OF SAFELY PASSING 100 YEAR FLOOD EVENTS WITH NO MORE THAN 1 FOOT DEPTH OVER DRIVEWAY SURFACE
- F) STRUCTURE CLEARANCES MINIMUM 12 INCHES G) MAINTENANCE - SUFFICIENT TO INSURE ALL WEATHER USE

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

With Z. Mly/1.	11-9-09
CHIEF, BUREAU OF HIGHWAYS	DATE
APPROVED: HOWARD COUNTY DEPARTMENT O	OF PLANNING AND ZONING
CHIEF, DEVELOPMENT ENGINEERING DIVISION	DATE
Kent Sherlwohn	11-16-09
CHIEF, DIVISION OF LAND DEVELOPMENT	DATE

COORDINATE LIST 548471.4212 548300.8314 1345477.838 548515.3522 1345596.156



MU	MINIMUM LOT SIZE CHART							
LOT NO.	GROSS AREA	PIPESTEM AREA	NET LOT					
13	11,990 SF	714 SF	10,276					
14	8,457 SF	1,113 SF	7,344					

- 40. DEVELOPER TO SUBMIT COPY OF ALL APPROVED DEMOLITION PERMITS. PHOTOGRAPHS OF BEFORE DEMOLITION AND AFTER CONDITION OF THE SITE, PRIOR TO THE SIGNATURE APPROVAL OF THE FINAL PLAT ORIGINALS. 41. A WETLANDS PERMIT IS NOU LONGER NEEDED SINCE DPW HAS APPROVED THE
- RETENTION OF THE EXISTING SEWER MAIN (CONVERSION FROM PRIVATE TO PUBLIC) WHICH ELIMINATES THE DISTURBANCE TO THE OUTFALL SEWER LOCATED ADJACENT TO THE RIVER. THE SEWER CONNECTION WHICH CONNECTS LOT 29 TO OPEN SPACE LOT 34 ACROSS THE STREAM WILL BE CONSTRUCTED BY 'JACK AND BORE' AND WILL NOT REQUIRE A PERMIT. PERVIOUS MDE PERMIT TRACKING 50. NUMBER 2008-62340.
- 42. FINANCIAL SURETY FOR THE REQUIRED LANDSCAPING PROVIDED PER THE LANDSCAPE MANUAL TO BE POSTED WITH THE DEVELOPER'S AGREEMENT. THE TOTAL LANDSCAPE SURETY AMOUNT SHOULD BE \$26,040 (51 SHADE TREES X \$300.00=\$15,300.00 + 51 EVERGREEN TREES X \$150.00 = \$7,650.00 + 15 SHRUBS x \$30.00 = \$450.00 +132 FEET OF WALL LENGTH X \$20.00 = \$2,640
- 43. THIS PROJECT DOES NOT AFFECT BGE OVERHEAD ELECTRIC UTILITY LINES. ON-SITE UTILITY POLES ARE TO BE REMOVED, RELOCATED OR REMAIN
- 44. THE SIGNATURE APPROVAL OF THE FINAL SUBDIVISION PLAT IS SUBJECT TO SUBMISSION OF DOCUMENTATION TO DPZ PRIOR TO OR CONCURRENT WITH THE SUBMISSION OF FINAL PLAT ORIGINALS CONCERNING THE REMOVAL OF ALL EXISTING STRUCTURES, PARKING LOTS, PRIVATE DRIVES AND OTHER SITE MPROVEMENTS LOCATED ON THE SUBJECT PROPERTY.
- 45. THE PRIVATE 3' HIGH RETAINING WALL LOCATED ON OPEN SPACE LOT 35 TO BE PRIVATELY MAINTAINED BY THE HOA. GRAFFITI REMOVAL IS THE RESPONSIBILITY OF THE HOA
- 46. THE PROJECT IS BEING DEVELOPED IN ACCORDANCE WITH SECTION 108.F OF THE ZONING REGULATIONS, DENSITY EXCHANGE FOR NEIGHBORHOOD PRESERVATION PARCELS. THE SENDING PARCEL IS IDENTIFIED AS RIVERSIDE ESTATES, LOT 10 (TAX MAP 41, GRID 12, PARCEL 253).
- 47. PRIVATE RANGE OF ADDRESS SIGNS AND PRIVATE ROAD STREET NAME SIGNS (SNS) SHALL BE FABRICATED AND INSTALLED BY HOWARD COUNTY BUREAU OF HIGHWAYS AT THE DEVELOPERS/OWNERS EXPENSE, CONTACT HOWARD COUNTY TRAFFIC DIVISION AT 410-313-5752 FOR DETAILS AND COST_ESTIMATES.
- 48. THIS PLAN IS SUBJECT TO BA-08-002C; APPROVED APRIL 21, 2008; FOR A CHARITABLE OR PHILANTHROPIC INSTITUTION: OFFICES AND EDUCATIONAL PROGRAMS CONDITIONAL USES IN AN R-20 ZONING DISTRICT. APPROVAL SUBJECT TO THE FOLLOWING CONDITIONS: 1. THE AREA OF THE SITE SHALL BE REVISED AT THE SITE DEVELOPMENT PLAN STAGE TO COMPLY WITH THE 50~FOOT SETBACK REQUIRED BY SECTION 131.N.12.f ALONG THE REVISED SITE'S LOT LINES. A LESSER REDUCTION IN THIS 50-FOOT SETBACK IS NOT PERMITTED. 2. THE SQUARE FOOTAGE OF THE BUILDING TO BE UTILIZED BY THE OFFICE/EDUCATION BUILDING SHALL BE ACCORDINGLY. STATED IN THE SITE DEVELOPMENT PLAN AND THE NUMBER OF PARKING SPACES SHALL

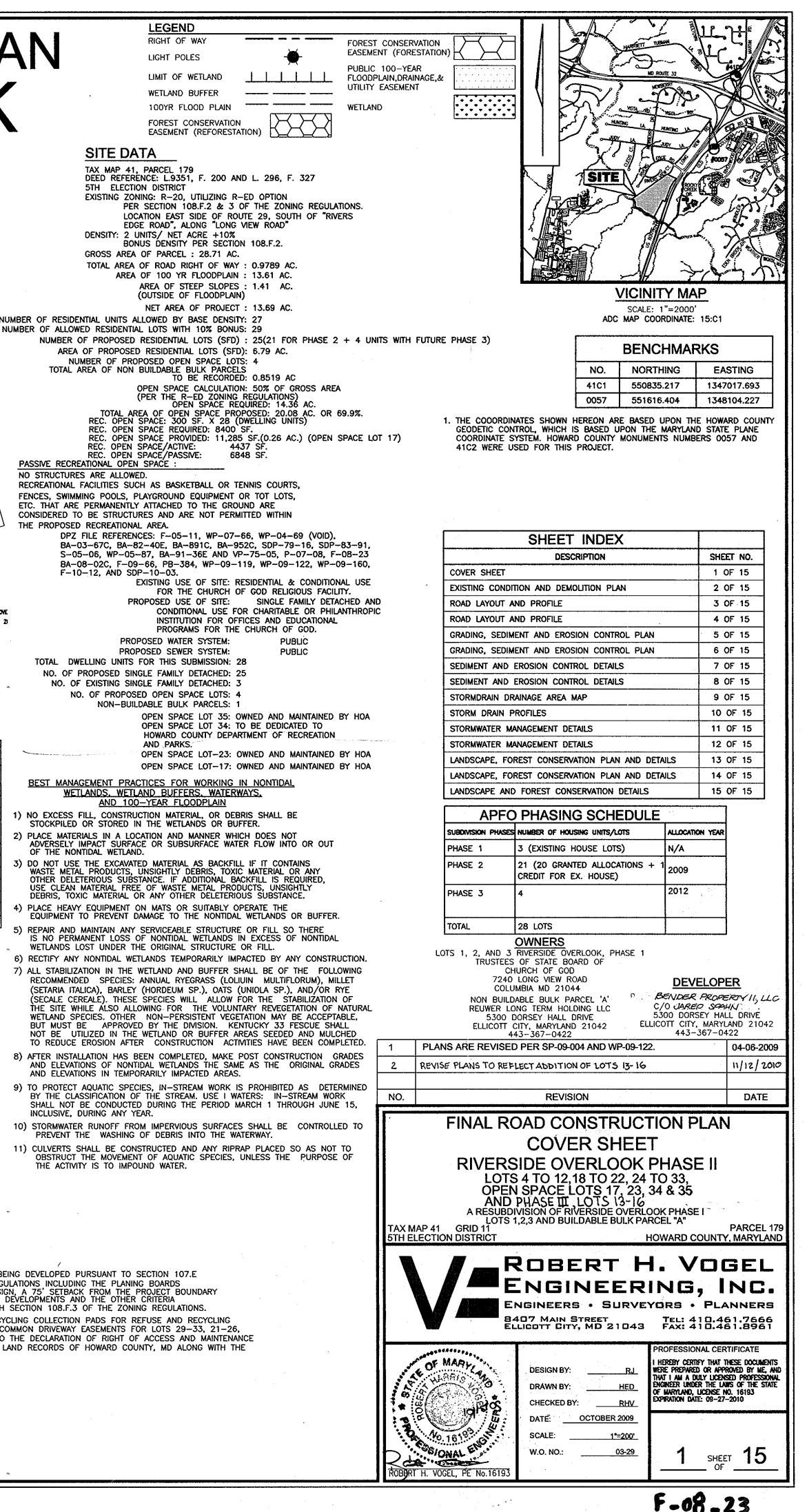
BE ADJUSTED

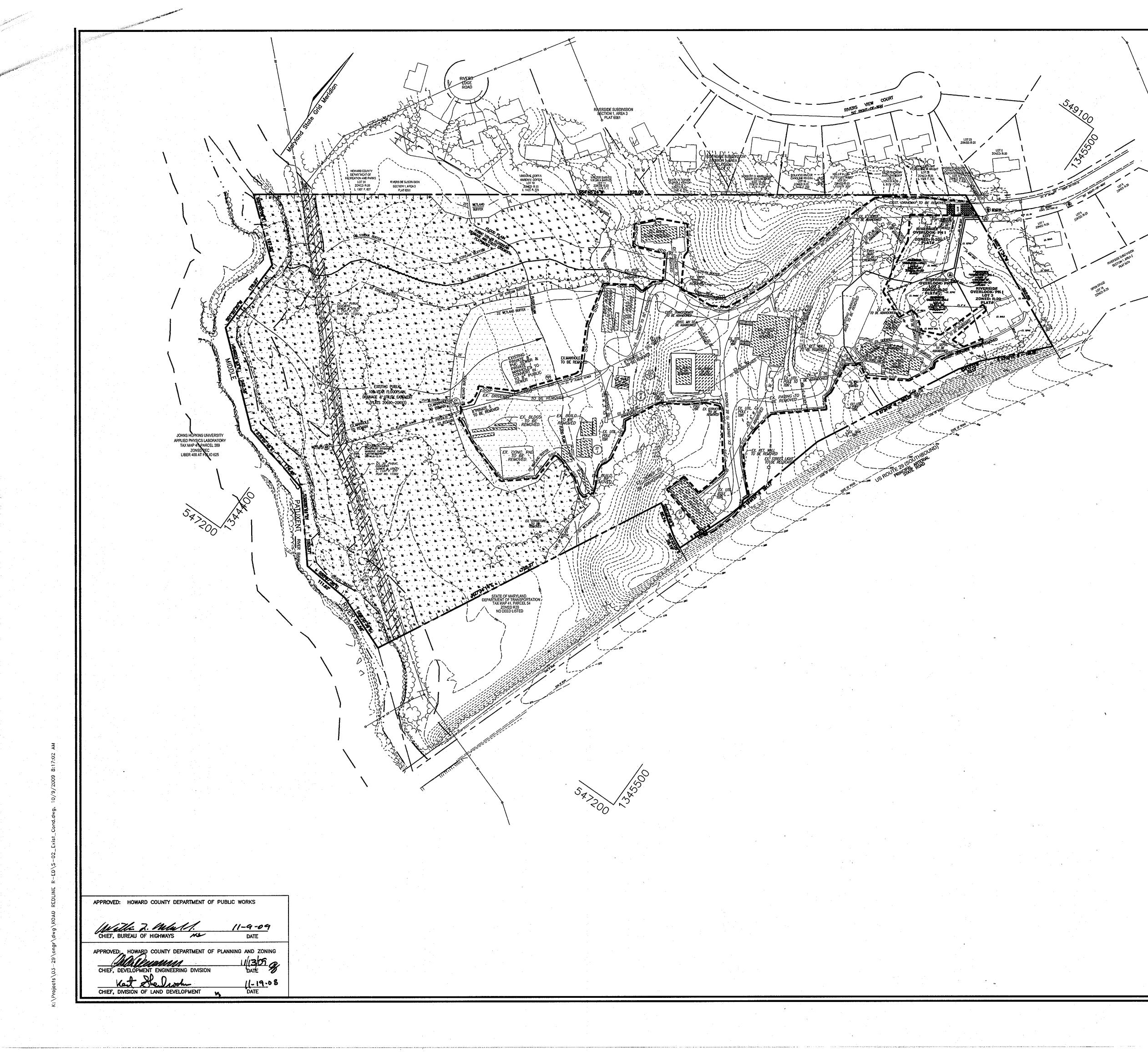
3. THE HOURS AND OPERATION FOR THE EDUCATIONAL PROGRAMS ARE 5:30 PM TO 9:00 PM WEEKDAYS AND 9.00 TO 3.00 PM ON WEEKENDS. 4. A MAXIMUM NUMBER OF 20 PERSONS MAY ATTEND THE EDUCATIONAL PROGRAMS.

FINAL ROAD CONSTRUCTION PLAN **RIVERSIDE OVERLOOK** PHASE II

LOTS 4 TO 12, 18 TO 22, 24 TO 33 OPEN SPACE LOTS 17, 23, 34 & 35 AND **PHASE III, LOTS 13-16** HOWARD COUNTY, MARYLAND A RESUBDIVISION OF RIVERSIDE OVERLOOK PHASE LOTS 1,2,3 AND BUILDABLE BULK PARCEL "A"

- APPROVAL IS SUBJECT TO THE FOLLOWING CONDITIONS: 1. FINAL PLAN, F-08-23 IS HEREBY EXTENDED FOR ADDITIONAL 180 DAYS FROM THE PREVIOUS DEADLINE DUE DATE OF SEPTEMBER 22, 2008 UNTIL (ON OR BEFORE OCTOBER 16, 2009) TO SUBMIT THE FINAL PLAT ORIGINAL TO DPZ FOR SIGNATURE APPROVAL AND RECORDING.
- PROPOSED PRIVATE NOISE WALL ON OPEN SPACE LOT 17 TO BE CONSTRUCTED AND MAINTAINED WITHOUT UTILIZING SHA RIGHT OF WAY. STATE HIGHWAY ADMINISTRATION WILL NOT BE RESPONSIBLE FOR NOISE MITIGATION NOW OR IN THE FUTURE.
- 51. THIS PLAN IS SUBJECT TO WP-09-122 APPROVED MARCH 10, 2009 TO WAIVE SECTION 16.144(k) AND 16.147 REQUIRING SUBMISSION OF A FINAL PLAN FOR ALL DIVISIONS OR RESUBDIVISIONS OF LAND SITUATED WITHIN HOWARD COUNTY, THE PURPOSE OF THE WAIVER REQUEST IS TO ALLOW FOR THE REDLINING OF THE EXISTING SIGNATURE APPROVED FINAL ROAD CONSTRUCTION DRAWING ORIGINALS PER F-08-023 AND TO REVISE THE FINAL PLAT TO BE CONSISTENT WITH THE NEW REDESIGNED "R-ED" SUBDIVISION PLAN PER SP-09-04 IN LIEU OF SUBMITTING A NEW FINAL FOR THIS **PROJECT**
- APPROVAL IS SUBJECT TO THE FOLLOWING CONDITIONS. 1. SUBJECT TO PLANNING BOARD'S APPROVAL OF THE NEW REDESIGNED "R-ED" PRELIMINARY EQUIVALENT SKETCH PLAN, SP-09-04 AND SIGNATURE APPROVAL OF THE PLAN ORIGINAL BY DPZ FOR PHASE 2. 2. SUBJECT TO THE RECORDING OF F-09-66 FOR PHASE 1 OF THIS SUBDIVISION
- PRIOR TO RECORDING OF F-08-23 FOR PHASE 2. 3. THE APPLICANT MUST SUBMIT THE NECESSARY "RED-LINE REVISION" FOR THE ROAD CONSTRUCTION DRAWINGS FOR F-08-23 AS REDESIGNED UNDER SP-09-04 FOR PROCESSING TO THE DPZ, DEVELOPMENT ENGINEERING DIVISION WITHIN 60 DAYS OF THE SIGNATURE APPROVAL DATE FOR THE SP-09-04 MYLAR ORIGINALS. ADDITIONALLY. IN CONJUNCTION WITH THE "RED-LINE" SUBMISSION. THE APPLICANT MUST RESUBINIT DIRECT REVISED FINAL PLAT DRAWINGS DIRECTLY TO THE FOLLOWING SRC AGENCIES FOR REVIEW AND COMMENTS PRIOR TO THE SUBMISSION OF THE FINAL PLAT ORIGINALS TO DPZ FOR SIGNATURES AND RECORDING (2 SETS OF REVISED FINAL PLATS TO DPZ, DIVISION OF LAND DEVELOPMENT. 4 SETS OF REVISED
- FINAL PLATS TO THE DEVELOPMENT ENGINEERING DIVISION AND 1 SET OF REVISED FINAL PLATS TO THE HEALTH DEPARTMENT). 4. THE "RED-LINE" REVISION AND/OR SUBSTITUTE OR ADDITIONAL PLAN SHEETS FOR THE ROAD CONSTRUCTION DRAWINGS FOR F-08-23 MUST RECEIVE SIGNATURE APPROVAL FROM DPZ PRIOR TO THE SUBMISSION OF THE FINAL PLAT ORIGINALS TO DPZ FOR SIGNATURES AND RECORDING. AND PRIOR TO SIGNATURE APPROVAL OF
- SDP-09-33 FOR THE CHURCH OF GOD OFFICE BUILDING PROJECT. 5. THE REVISED FINAL PLAT AND REVISED ROAD DRAWINGS FOR F-08-23 MUST BE CONSISTENT WITH THE REDESIGNED "R-ED" SUBDIVISION PLAN APPROVED UNDER SP-09-04 6. COMPLIANCE WITH THE ENCLOSED DED COMMENTS DATED MARCH 5, 2009 IS REQUIRED.
- 52. REFERENCE PLANING BOARD CASE NO. 384 APPROVED AUGUST 19, 2009 FOR THE APPROVAL OF PRELIMINARY EQUIVALENT SKETCH PLAN SP-09-04.
- 53. NOISE MITIGATION IS PROVIDED ADJACENT TO ROUTE 29 BY A PROPOSED MAXIMUM 6' HIGH NOISE WALL OR NOISE WALL/EARTH BERM COMBINATION.
- 54. USING THE NEIGHBORHOOD PRESERVATION DENSITY EXCHANGE OPTION DESCRIBED IN SECTION 128.L OF THE ZONING REGULATIONS, THE DEVELOPMENT RIGHTS FOR ONE OF THE RESIDENTIAL UNITS/LOTS SHOWN ON THIS SUBDIVISION PLAN FOR RIVERSIDE OVERLOOK, PHASE II HAS BEEN TRANSFERRED FROM RIVERSIDE ESTATES, LOT 10 LOCATED ON TAX MAP 41, PARCEL 253.
- 55. THE R-20 ZONED SUBDIVISION IS BEING DEVELOPED PURSUANT TO SECTION 107.E OF THE R-ED ZONING DISTRICT REGULATIONS INCLUDING THE PLANING BOARDS APPROVAL OF THE SUBDIVISION DESIGN, A 75' SETBACK FROM THE PROJECT BOUNDARY ADJACENT SINGLE FAMILY DETACHED DEVELOPMENTS AND THE OTHER CRITERIA REQUIREMENTS IN ACCORDANCE WITH SECTION 108.F.3 OF THE ZONING REGULATIONS. 56. 4'x10' CONCRETE REFUSE AND RECYCLING COLLECTION PADS FOR REFUSE AND RECYCLING
- WILL BE LOCATED IN THE USE-IN-COMMON DRIVEWAY EASEMENTS FOR LOTS 29-33. 21-26. PURSUANT TO THE DECLARATION OF RIGHT OF ACCESS AND MAINTENANCE AND 13-14 OBLIGATION RECORDED AMONG THE LAND RECORDS OF HOWARD COUNTY, MD ALONG WITH THE RECORDING OF THE PLAT.





NOTES:

- 1. DEVELOPER TO SUBMIT COPY OF ALL APPROVED DEMOLITION PERMITS PHOTOGRAPHS OF BEFORE DEMOLITION AND AFTER CONDITION OF THE SITE, PRIOR TO THE SIGNATURE APPROVAL OF THE FINAL PLAT ORIGINALS.
- 2. ALL EXISTING STRUCTURES TO BE REMOVED AND THE AREA RESTORED TO ITS NATURAL CONDITION.
- 3. ALL POWER POLES ARE TO BE REMOVED BY BG&E PRIOR TO CONSTRUCTION.
- 4. ALL EXISTING PRIVATE WELL AND SEPTIC SYSTEMS TO BE ABANDONED PRIOR TO CONSTRUCTION.

	LEGEND	
	EXISTING CONTOUR	
	SUPER SILT FENCESSF	
	EARTHDIKE	
	PRIVATE DRAINAGE & UTILITY	
	EXISTING TREES TO REMAIN	
	PUBLIC 100-YR FLOODPLAIN DRAINAGE & UTILITY EASEMENT	
4 -	WETLANDS	
	LIMIT OF WETLAND	
	WETLANDS BUFFER	
	STREAM CENTERLINE	
·	STREAM BUFFER	
	EX. PRIVATE USE- IN	
	COMMON ACCESS EASEMENT	
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	OWNERS LOTS 1, 2, AND 3 RIVERSIDE OVERLOOK, PHASE 1	
	LOTS 1, 2, AND 3 RIVERSIDE OVERLOOK, PHASE 1 TRUSTEES OF STATE BOARD OF CHURCH OF GOD	.
	LOTS 1, 2, AND 3 RIVERSIDE OVERLOOK, PHASE 1 TRUSTEES OF STATE BOARD OF CHURCH OF GOD 7240 LONG VIEW ROAD COLUMBIA MD 21044 DEVELOP	
	LOTS 1, 2, AND 3 RIVERSIDE OVERLOOK, PHASE 1 TRUSTEES OF STATE BOARD OF CHURCH OF GOD 7240 LONG VIEW ROAD COLUMBIA MD 21044 NON BUILDABLE BULK PARCEL 'A' REUWER LONG TERM HOLDING LLC	RTY II, LLC
	LOTS 1, 2, AND 3 RIVERSIDE OVERLOOK, PHASE 1 TRUSTEES OF STATE BOARD OF CHURCH OF GOD 7240 LONG VIEW ROAD COLUMBIA MD 21044 NON BUILDABLE BULK PARCEL 'A' REUWER LONG TERM HOLDING LLC C/O VARED SPA	AHAI LL DRIVE LAND 21042
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2	LOTS 1, 2, AND 3 RIVERSIDE OVERLOOK, PHASE 1 TRUSTEES OF STATE BOARD OF CHURCH OF GOD 7240 LONG VIEW ROAD COLUMBIA MD 21044 NON BUILDABLE BULK PARCEL 'A' REUWER LONG TERM HOLDING LLC 5300 DORSEY HALL DRIVE ELLICOTT CITY, MARYLAND 21042 ELLICOTT CITY, MARYLAND 21042 PLANS ARE REVISED PER SP-09-004 AND WP-09-122. REVISE PLANS TO REFLECT ADDITION OF LOTS 13-16	ETY II, LLC AHKI LL DRIVE LAND 21042 422 04-06-2009 11 / 12 / 2010
	LOTS 1, 2, AND 3 RIVERSIDE OVERLOOK, PHASE 1 TRUSTEES OF STATE BOARD OF CHURCH OF GOD 7240 LONG VIEW ROAD COLUMBIA MD 21044 NON BUILDABLE BULK PARCEL 'A' REUWER LONG TERM HOLDING LLC 5300 DORSEY HALL DRIVE ELLICOTT CITY, MARYLAND 21042 ELLICOTT CITY, MARYLAND 21042 443-367-0422 PLANS ARE REVISED PER SP-09-004 AND WP-09-122. REVISE PLANS TO REFLECT ADDITION OF LOTS 13-16 REVISION	ETY II, LLC AUKI LL DRIVE LAND 21042 422 04-06-2009 11 / 12 /2010 DATE
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_____RHV

1"=100'

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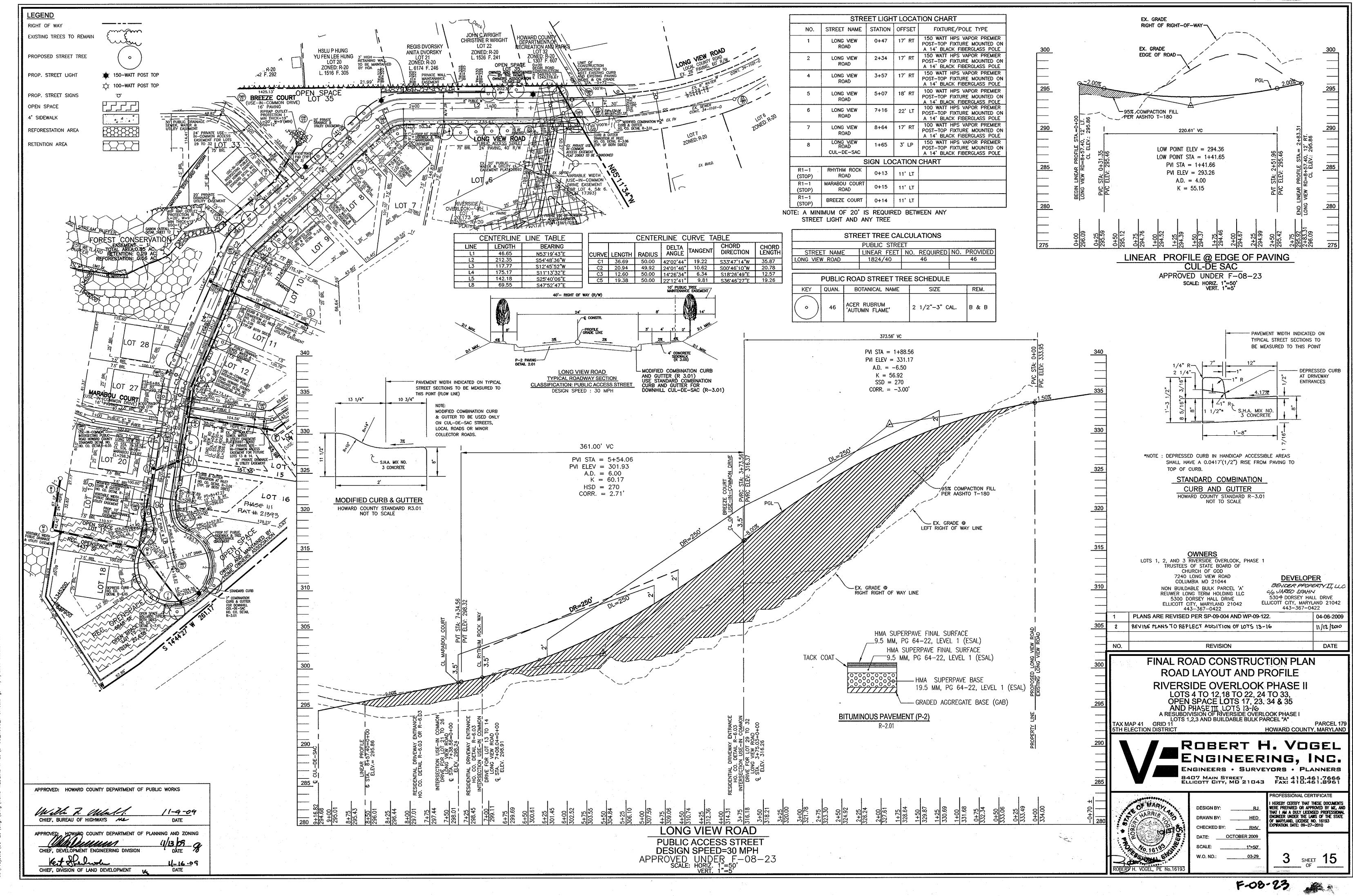
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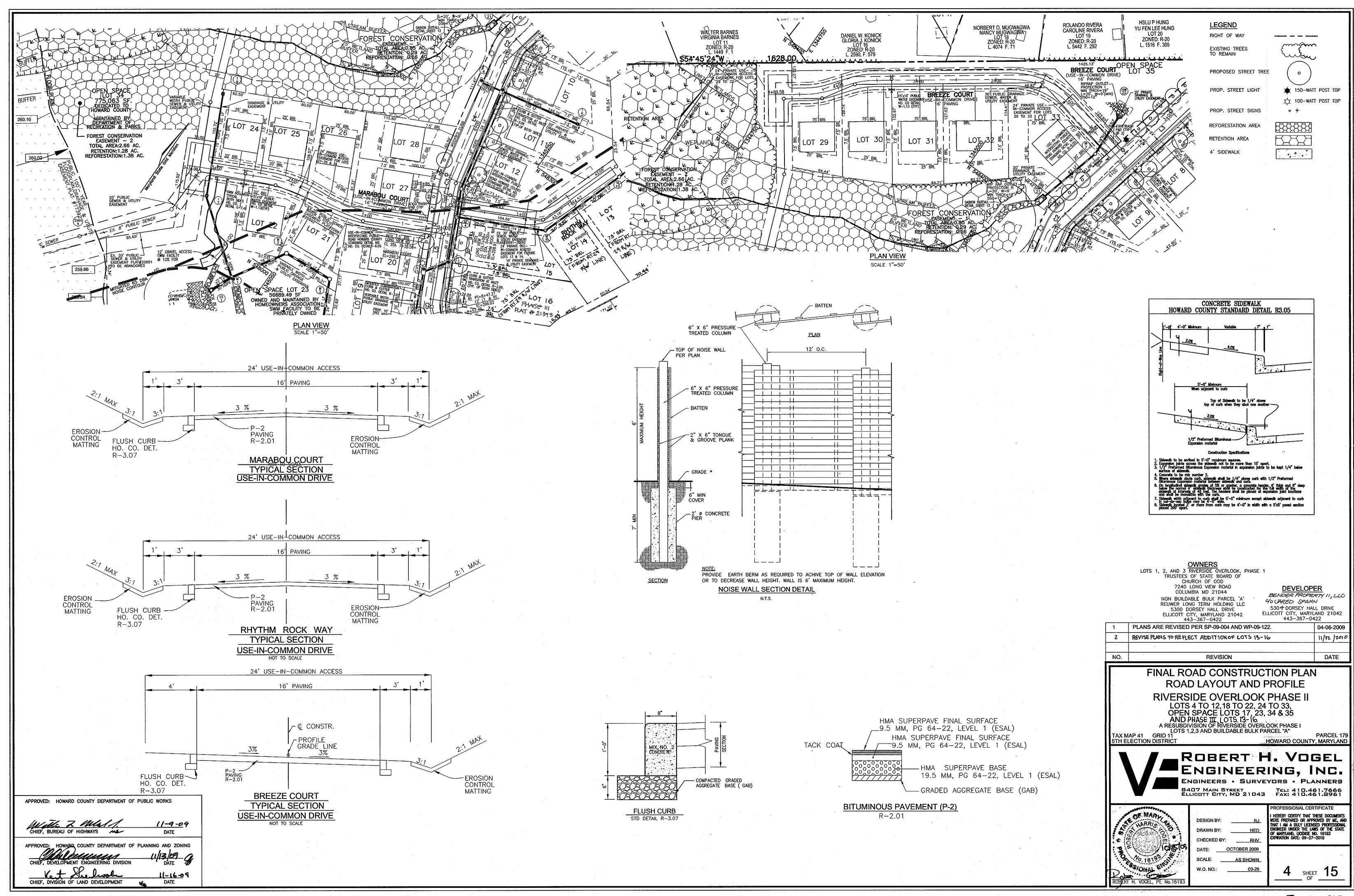
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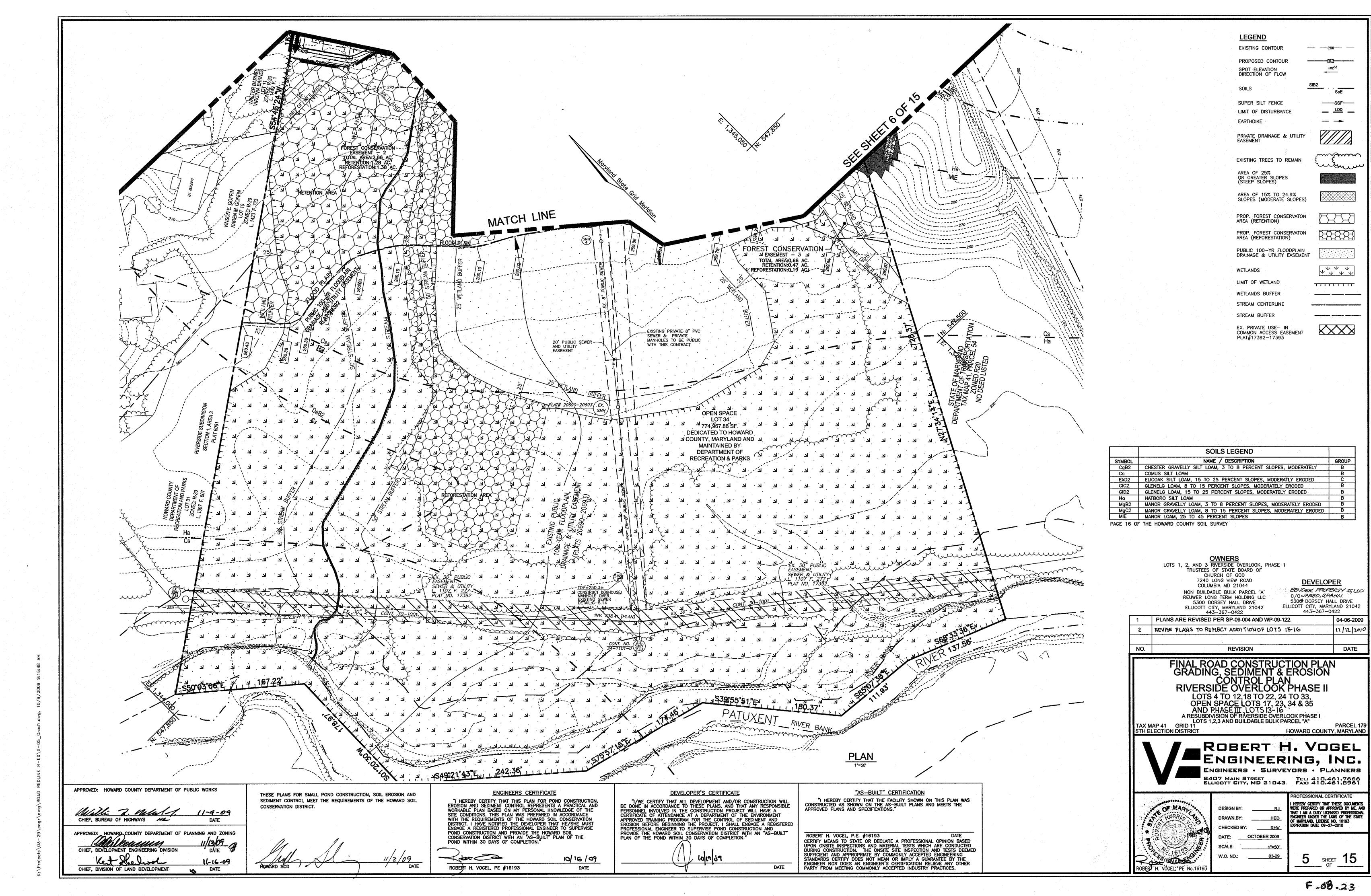




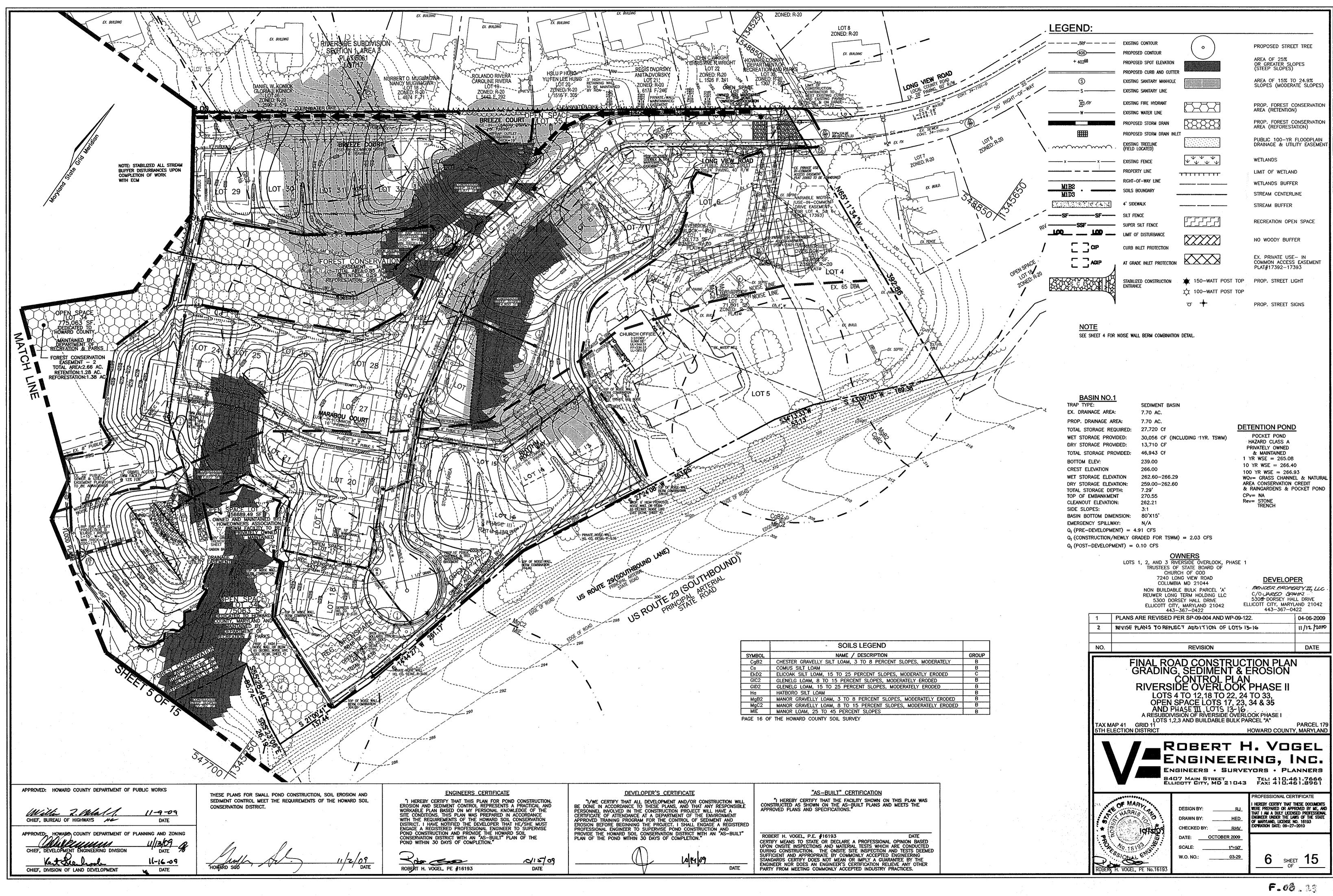
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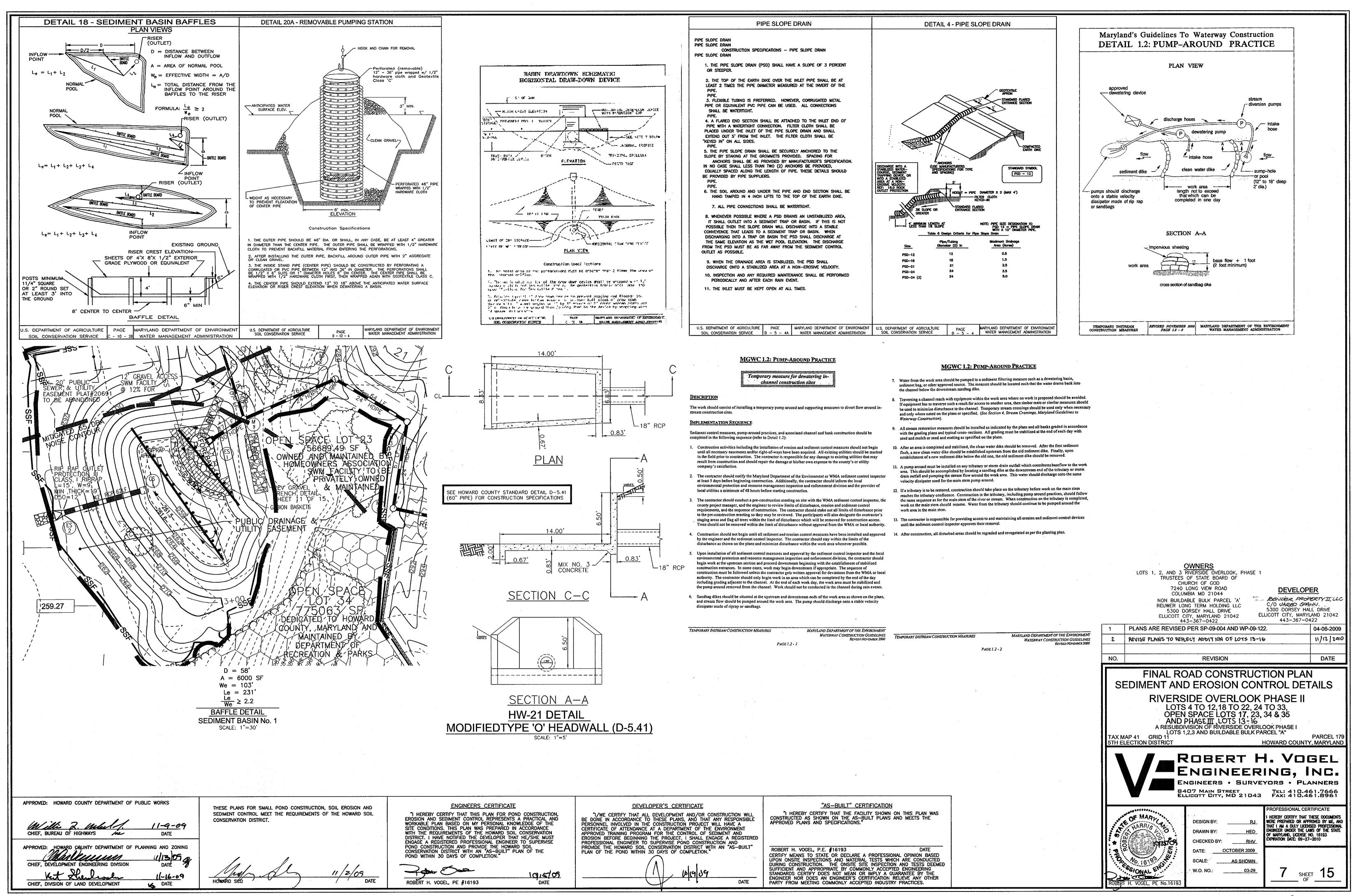
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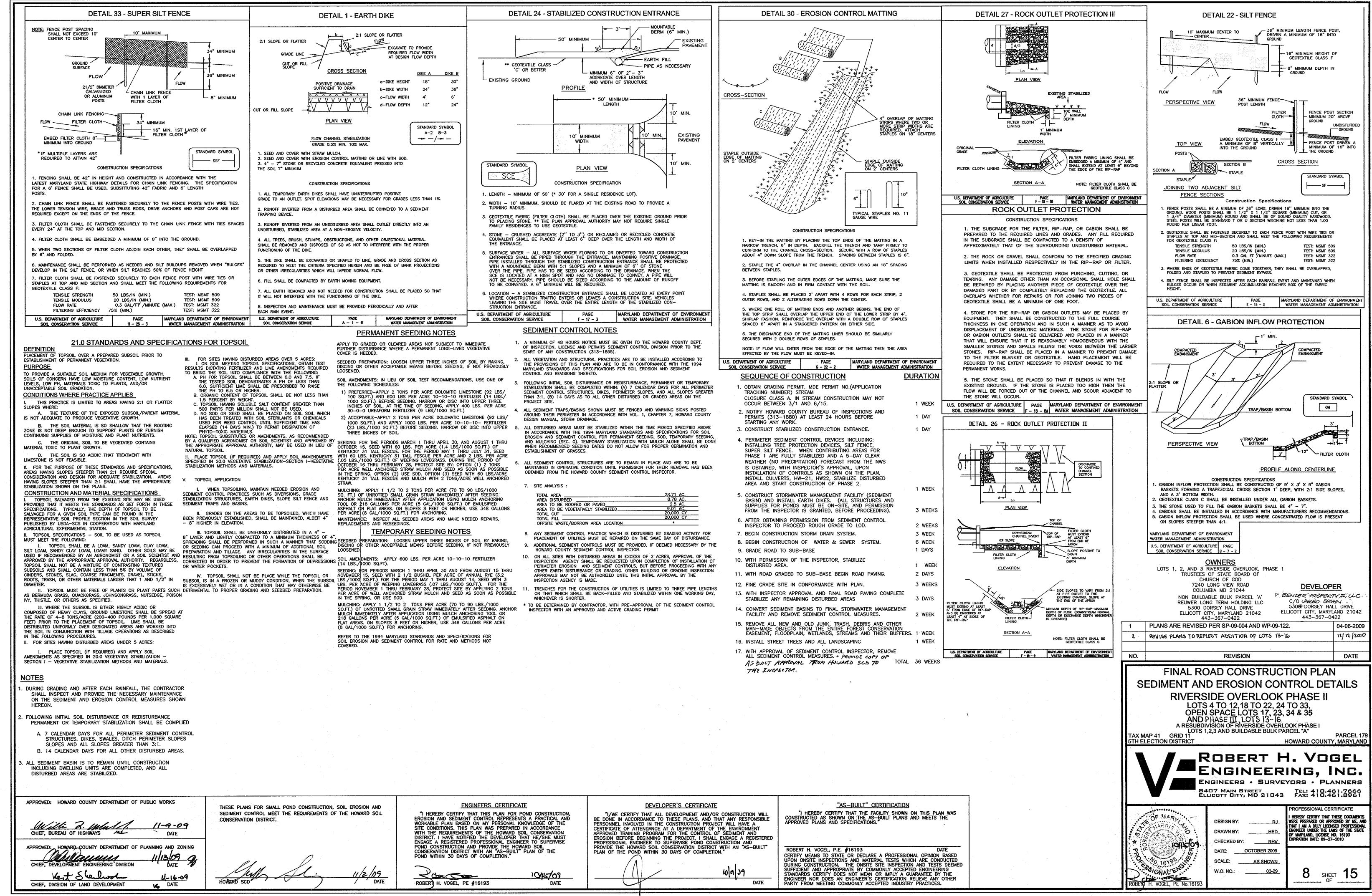
	SOILS LEGEND	
SYMBOL	NAME / DESCRIPTION	GROUP
CgB2	CHESTER GRAVELLY SILT LOAM, 3 TO 8 PERCENT SLOPES, MODERATELY	B
Cs	COMUS SILT LOAM	B
EkD2	ELICOAK SILT LOAM, 15 TO 25 PERCENT SLOPES, MODERATLY ERODED	C
GIC2	GLENELG LOAM, 8 TO 15 PERCENT SLOPES, MODERATELY ERODED	B
GID2	GLENELG LOAM, 15 TO 25 PERCENT SLOPES, MODERATELY ERODED	8
Ha	HATBORO SILT LOAM	8
MgB2	MANOR GRAVELLY LOAM, 3 TO 8 PERCENT SLOPES, MODERATELY ERODED	B
MgC2	MANOR GRAVELLY LOAM, 8 TO 15 PERCENT SLOPES, MODERATELY ERODED	В
MIE	MANOR LOAM, 25 TO 45 PERCENT SLOPES	В





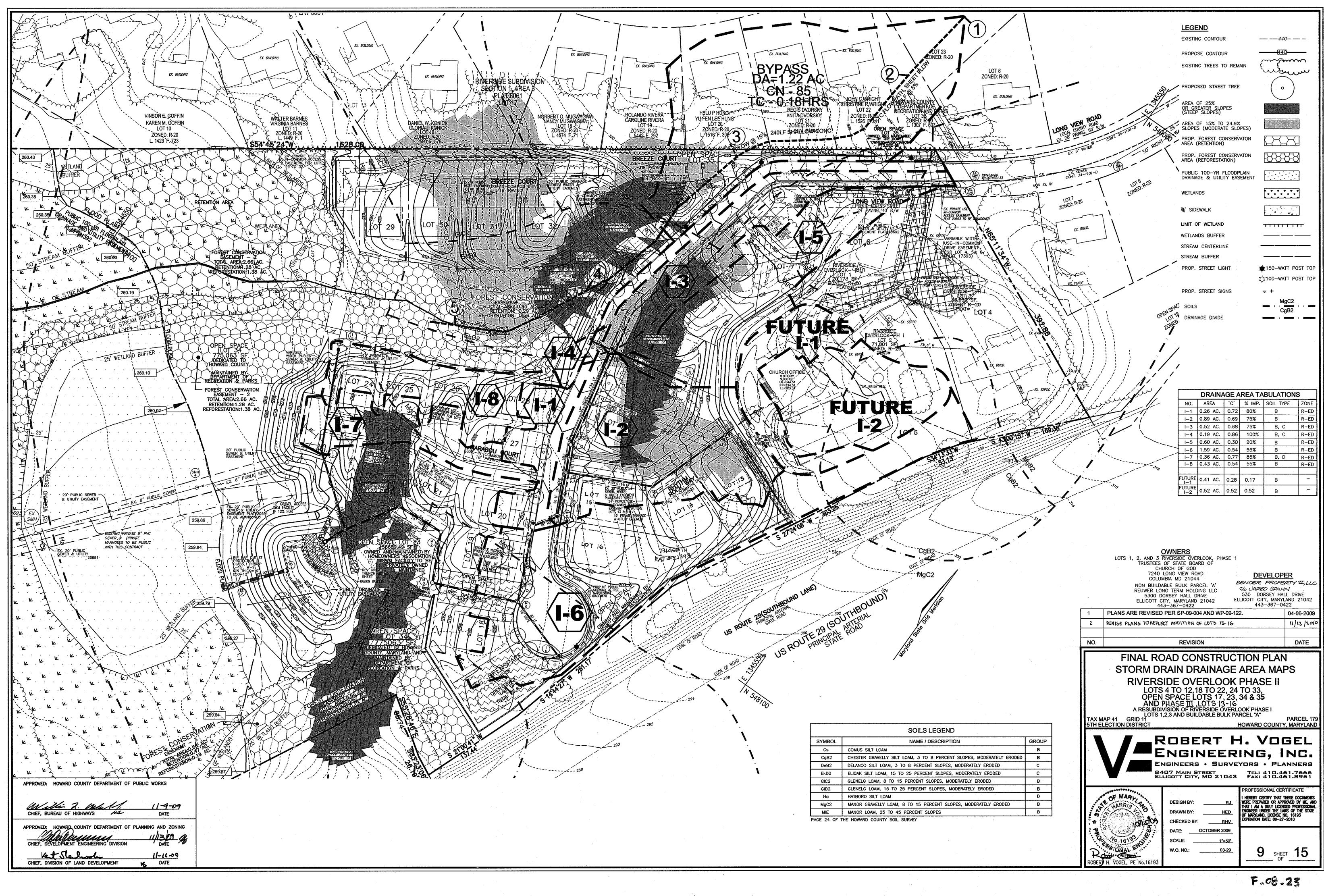
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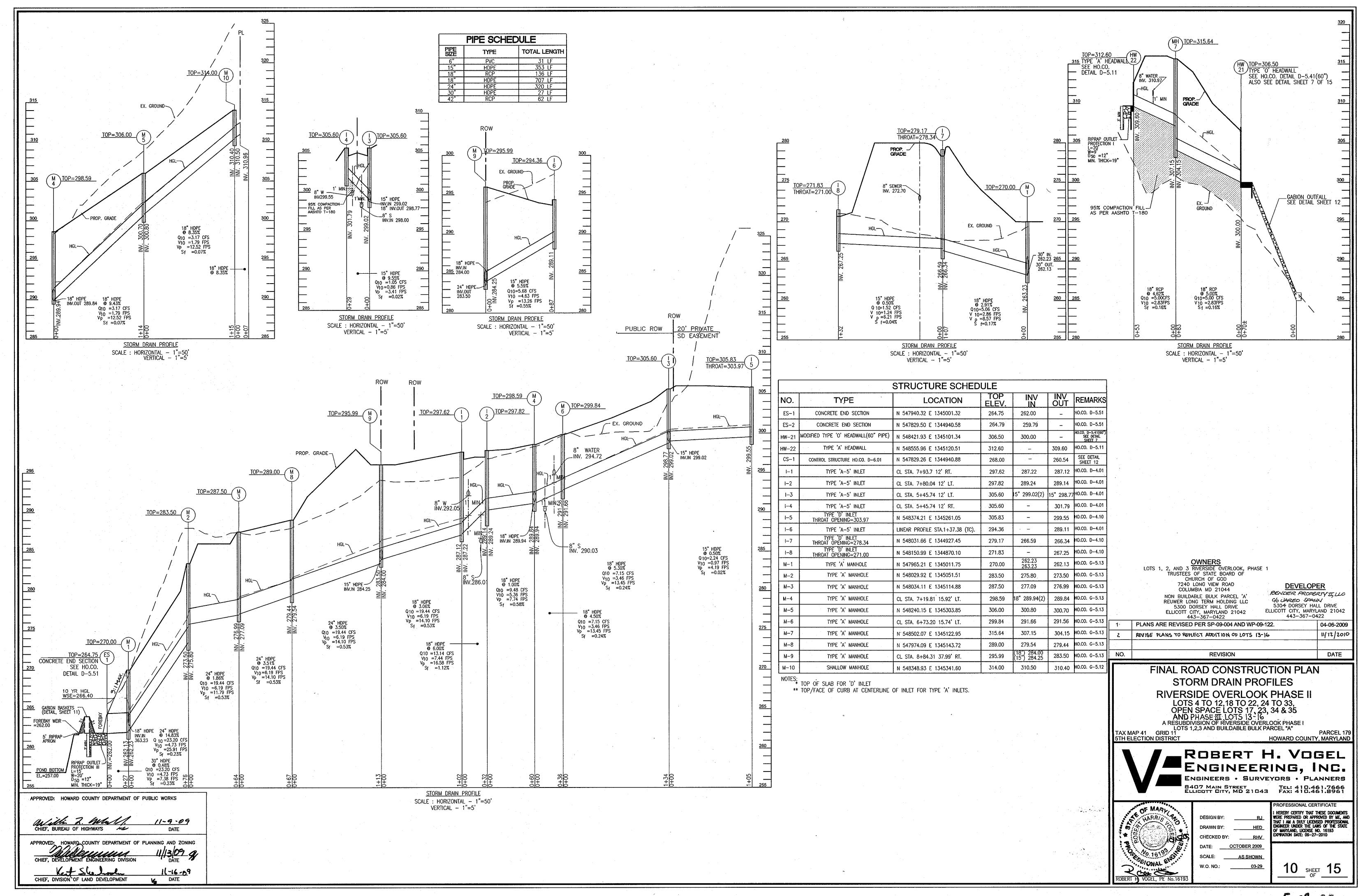
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	DETAIL	. 24 - STABILIZED CONSTRUCTION ENTRANCE
		50° MINIMUM EXISTING 510 Str
	** GEOTEXTIL	EARTH FILL
DIKE B	'C' OR I	
30" 36"	← EXISTING GROUND	AND WIDTH OF STRUCTURE
6' 24 "		* 50' MINIMUM
		10' MIN.
SYMBOL 8-3		10' MINIMUM
*		
	STANDARD SYMBOL,	DE ANI VIEW
	SCE SCE	
	1. LENGTH - MINIMUM	OF 50' (* 30' FOR A SINGLE RESIDENCE LOT).
č .	2. WIDTH - 10' MINIM TURNING RADIUS.	UM, SHOULD BE FLARED AT THE EXISTING ROAD TO PROVIDE A
	TO PLACING STONE.	(FILTER CLOTH) SHALL BE PLACED OVER THE EXISTING GROUND PRIOR ** THE PLAN APPROVAL AUTHORITY MAY NOT REQUIRE SINGLE TO USE GEOTEXTILE.
		AGGREGATE (2" TO 3") OR RECLAIMED OR RECYCLED CONCRETE BE PLACED AT LEAST 6" DEEP OVER THE LENGTH AND WIDTH OF
	THE ENTRANCE. 5. SURFACE WATER	ALL SURFACE WATER FLOWING TO OR DIVERTED TOWARD CONSTRUCTION
5	PIPE INSTALLED THE WITH A MOUNTABLE	BE PIPED THROUGH THE ENTRANCE, MAINTAINING POSITIVE DRAINAGE. ROUGH THE STABILIZED CONSTRUCTION ENTRANCE SHALL BE PROTECTED BERM WITH 5:1 SLOPES AND A MINIMUM OF 6" OF STONE
	SCE IS LOCATED AT NOT BE NECESSARY	PE HAS TO BE SIZED ACCORDING TO THE DRAINAGE. WHEN THE TA HIGH SPOT AND HAS NO DRAINAGE TO CONVEY, A PIPE WILL 7. PIPE SHOULD BE SIZED ACCORDING TO THE AMOUNT OF RUNOFF A 6" MINIMUM WILL BE REQUIRED.
м [°]	6. LOCATION - A STAE	BILIZED CONSTRUCTION ENTRANCE SHALL BE LOCATED AT EVERY POINT ON TRAFFIC ENTERS OR LEAVES A CONSTRUCTION SITE. VEHICLES
		MUST TRAVEL OVER THE ENTIRE LENGTH OF THE STABILIZED CON- CE.
VIRONMENT STRATION	SOIL CONSERVATION SE	
OTES UBJECT TO IN	IMEDIATE 1. A N	AINIMUM OF 48 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY DEPT.
LONG-LIVED	VEGETATIVE OF I	INSPECTION, LICENSE AND PERMITS SEDIMENT CONTROL DIVISION PRIOR TO THE RT OF ANY CONSTRUCTION (313–1855). VEGETATION AND STRUCTURAL PRACTICES ARE TO BE INSTALLED ACCORDING TO
	IF NOT PREVIOUSLY MAR	U.S. I PROVISIONS OF THIS PLAN AND ARE TO BE IN CONFORMANCE WITH THE 1994 YLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT TROL AND REVISIONS THERETO.
	NS, USE ONE OF 3. FOLI STAT	LOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY BILIZATION SHALL BE COMPLETED WITHIN: (A) 7 CALENDAR DAYS FOR ALL PERIMETER
-10-10 FERT OR DISC INT(TILIZER (14 LBS./ THA D UPPER THREE PRO	IMENT CONTROL STRUCTURES, DIKES, PERIMETER SLOPES, AND ALL SLOPES GREATER N 3:1, (B) 14 DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE DIECT SITE.
000 SQ.FT.)	ARO	SEDIMENT TRAPS/BASINS SHOWN MUST BE FENCED AND WARNING SIGNS POSTED JUND THEIR PERIMETER IN ACCORDANCE WITH VOL. 1, CHAPTER 7, HOWARD COUNTY SIGN MANUAL, STORM DRAINAGE.
ACRE 10-10	D-10- FERTILIZER DISC INTO UPPER 5. ALL	DISTURBED AREAS MUST BE STABILIZED WITHIN THE TIME PERIOD SPECIFIED ABOVE ACCORDANCE WITH THE 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL
(1.4 LBS/10	D AUGUST 1 THRU AND 00 SQ.FT.) OF WHI	DSION AND SEDIMENT CONTROL FOR PERMANENT SEEDING, SOD, TEMPORARY SEEDING, D MULCHING (SEC. G). TEMPORARY STABILIZATION WITH MULCH ALONE SHALL BE DONE EN RECOMMENDED SEEDING DATES DO NOT ALLOW FOR PROPER GERMINATION AND
R ACRE AND ASS. DURING	J JULY 31, SEED EST 2 LBS. PER ACRE THE PERIOD OF	ABLISHMENT OF GRASSES. SEDIMENT CONTROL STRUCTURES ARE TO REMAIN IN PLACE AND ARE TO BE
ID SEED AS S N (3) SEED W	SOON AS POSSIBLE MAI	NTAINED IN OPERATIVE CONDITION UNTIL PERMISSION FOR THEIR REMOVAL HAS BEEN TAINED FROM THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
CRE (70 TO	90 LBS/1000 7.	SITE ANALYSIS :
ON USING MU 000 SQ.FT.) 0	AFTER SEEDING. JLCH ANCHORING JF EMULSIFIED	TOTAL AREA
RING.	USE 348 GALLONS EDED REPAIRS,	AREA TO BE VEGETATIVELY STABILIZED 9.01 AC. TOTAL CUT 20,000 CY TOTAL FILL 20,000 CY OFFSITE WASTE/BORROW AREA LOCATION *
IG NOTE	<u>S</u> 8.	ANY SEDIMENT CONTROL PRACTICE WHICH IS DISTURBED BY GRADING ACTIVITY FOR
	F SOIL BY RAKING, IF NOT PREVIOUSLY 9.	PLACEMENT OF UTILITIES MUST BE REPAIRED ON THE SAME DAY OF DISTURBANCE. ADDITIONAL SEDIMENT CONTROLS MUST BE PROVIDED, IF DEEMED NECESSARY BY THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
RE 10-10-1	0 FERTILIZER 10.	ON ALL SITES WITH DISTURBED AREAS IN EXCESS OF 2 ACRES, APPROVAL OF THE INSPECTION AGENCY SHALL BE REQUESTED UPON COMPLETION OF INSTALLATION OF PERIMETER EROSION AND SEDIMENT CONTROLS, BUT BEFORE PROCEEDING WITH ANY
R ACRE OF A	OM AUGUST 15 THRU ANNUAL RYE (3.2 14, SEED WITH 3	OTHER EARTH DISTURBANCE OR GRADING. OTHER BUILDING OR GRADING INSPECTION APPROVALS MAY NOT BE AUTHORIZED UNTIL THIS INITIAL APPROVAL BY THE INSPECTION AGENCY IS MADE.
LBS./1000 S OTECT SITE E	SQ.FT.). FOR THE	TRENCHES FOR THE CONSTRUCTION OF UTILITIES IS LIMITED TO THREE PIPE LENGTHS OR THAT WHICH SHALL BE BACK-FILLED AND STABILIZED WITHIN ONE WORKING DAY,
IMEDIATELY AF	TER SEEDING. ANCHOR IN	WHICHEVER IS SHORTER. D BE DETERMINED BY CONTRACTOR, WITH PRE-APPROVAL OF THE SEDIMENT CONTROL VSPECTOR WITH AN APPROVED AND ACTIVE GRADING PERMIT
G MULCH ANC) OF EMULSIF	HORING TOOL OR FIED ASPHALT ON ALLONS PER ACRE	
ND SPECIFICA		
RATE AND MET		

	DETAIL 30 - EROSION CONTROL MATTING	
	CROSS-SECTION	TWO OR DTHS ARE
	 KEY-IN THE MATTING BY PLACING THE TOP ENDS OF THE MATTING IN A NARROW TRENCH, 6" IN DEPTH. BACKFILL THE TRENCH AND TAMP FIRMLY TO CONFORM TO THE CHANNEL CROSS-SECTION. SECURE WITH A ROW OF STAPLES ABOUT 4" DOWN SLOPE FROM THE TRENCH. SPACING BETWEEN STAPLES IS 6". STAPLE THE 4" OVERLAP IN THE CHANNEL CENTER USING AN 18" SPACING BETWEEN STAPLES. 	
	3. BEFORE STAPLING THE OUTER EDGES OF THE MATTING, MAKE SURE THE MATTING IS SMOOTH AND IN FIRM CONTACT WITH THE SOIL.	
	4. STAPLES SHALL BE PLACED 2' APART WITH 4 ROWS FOR EACH STRIP, 2 OUTER ROWS, AND 2 ALTERNATING ROWS DOWN THE CENTER.	
Ĩ	5. WHERE ONE ROLL OF MATTING ENDS AND ANOTHER BEGINS, THE END OF THE TOP STRIP SHALL OVERLAP THE UPPER END OF THE LOWER STRIP BY 4", SHIPLAP FASHION. REINFORCE THE OVERLAP WITH A DOUBLE ROW OF STAPLES	
	SPACED 6" APART IN A STAGGERED PATTERN ON EITHER SIDE. 6. THE DISCHARGE END OF THE MATTING LINER SHOULD BE SIMILARLY	
	SECURED WITH 2 DOUBLE ROWS OF STAPLES.	
	EFFECTED BY THE FLOW MUST BE KEYEDIN. U.S. DEPARTMENT OF AGRICULTURE PAGE MARYLAND DEPARTMENT OF EI	WIRONMENT
	EFFECTED BY THE FLOW MUST BE KEYEDIN. U.S. DEPARTMENT OF AGRICULTURE PAGE MARYLAND DEPARTMENT OF EL SOIL CONSERVATION SERVICE G - 22 - 2 WATER MANAGEMENT ADMIN	ISTRATION
	EFFECTED BY THE FLOW MUST BE KEYEDIN. U.S. DEPARTMENT OF AGRICULTURE PAGE MARYLAND DEPARTMENT OF ER SOIL CONSERVATION SERVICE G - 22 - 2 WATER MANAGEMENT ADMIN SEQUENCE OF CONSTRUCTION DU 1. OBTAIN GRADING PERMIT. MDE PERMIT NO.(APPLICATION	
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PIPE SCHEDULE								
PIPE SIZE	TYPE	TOTAL LENGTH						
6"	PVC	31 LF						
15"	HDPE	353 LF						
18"	RCP	136 LF						
18"	HDPE	707 LF						
24"	HDPE	320_LF						
30"	HDPE	27 LF						
42"	RCP	62 LF						

NO.	TYPE	LC
ES-1	CONCRETE END SECTION	N 547940.32 E
ES-2	CONCRETE END SECTION	N 547829.50 E
HW-21	MODIFIED TYPE 'O' HEADWALL(60" PIPE)	N 548421.93 E
HW-22	TYPE 'A' HEADWALL	N 548555.96 E
CS-1	CONTROL STRUCTURE HO.CO. D-6.01	N 547829.26 E
I—1	TYPE 'A-5' INLET	CL STA. 7+93.7
I-2	TYPE 'A-5' INLET	CL STA. 7+80.0
I–3	TYPE 'A-5' INLET	CL STA. 5+45.7
I-4	TYPE 'A-5' INLET	CL STA. 5+45.7
I5	TYPE 'D' INLET THROAT OPENING=303.97	N 548374.21 E
1-6	TYPE 'A-5' INLET	LINEAR PROFILE
1-7	TYPE 'D' INLET THROAT OPENING=278.34	N 548031.66 E
I8	TYPE 'D' INLET THROAT OPENING=271.00	N 548150.99 E
M-1	TYPE 'A' MANHOLE	N 547965.21 E
М-2	TYPE 'A' MANHOLE	N 548029.92 E
M-3	TYPE 'A' MANHOLE	N 548034.11 E
M-4	TYPE 'A' MANHOLE	CL STA. 7+19.8
M-5	TYPE 'A' MANHOLE	N 548240.15 E
М-6	TYPE 'A' MANHOLE	CL STA. 6+73.2
М7	TYPE 'A' MANHOLE	N 548502.07 E
M-8	TYPE 'A' MANHOLE	N 547974.09 E
M-9	type 'a' manhole	CL STA. 8+84.3
M-10	SHALLOW MANHOLE	N 548348.93 E

F-08-23

MARYLAND 378

STORMWATER MANAGEMENT POND CONSTRUCTION SPECIFICATIONS CONSTRUCTION SPECIFICATIONS THESE SPECIFICATIONS ARE APPROPRIATE TO ALL PONDS WITHIN THE SCOPE OF THE STANDARD FOR PRACTICE MD-378. ALL

REFERENCES TO ASTM AND AASHTO SPECIFICATIONS APPLY TO THE MOST RECENT VERSION. SITE PREPARATION

AREAS DESIGNATED FOR BORROW AREAS, EMBANKMENT, AND STRUCTURAL WORKS SHALL BE CLEARED, GRUBBED AND STRIPPED OF TOPSOIL ALL TREES, VEGETATION, ROOTS AND OTHER OBJECTIONABLE MATERIAL SHALL BE REMOVED. CHANNEL BANKS AND SHARP BREAKS SHALL BE SLOPED TO NO STEEPER THAN 1:1. ALL TREES SHALL BE CLEARED AND GRUBBED WITHIN 15 FEET OF THE TOW OF THE

AREAS TO BE COVERED BY THE RESERVOIR WILL BE CLEARED OF ALL TREES, BRUSH, LOGS, FENCES, RUBBISH AND OTHER OBJECTIONABLE MATERIAL UNLESS OTHERWISE DESCNATED ON THE PLANS. TREES, BRUSH, AND STUMPS SHALL BE CUT APPROXIMATELY LEVEL WITH THE GROUND SURFACE, FOR DRY STORNWATER MANAGEMENT PONDS, A MINIMUM OF A 25-FOOT RADIUS AROUND THE INLET STOLFTIDE SHALL BE CLEARED. STRUCTURE SHALL BE CLEARED.

ALL CLEARED AND GRUBBED MATERIAL SHALL BE DISPOSED OF OUTSIDE AND BELOW THE LIMITS OF THE DAM AND RESERVOIR AS DIRECTED BY THE OWNER OR HIS REPRESENTATIVE. WHEN SPECIFIED, A SUFFICIENT QUANTITY OF TOPSOIL WILL BE STOCKPILED IN A SUITABLE LOCATION FOR USE ON THE EMBANKMENT AND OTHER DESIGNATED AREAS. EARTH FILL

MATERIAL - THE FILL MATERIAL SHALL BE TAKEN FROM APPROVED DESIGNATED BORROW AREAS. IT SHALL BE FREE OF ROOTS, STUMPS, WOOD, RUBBISH, STONES GREATER THAN 6", FROZEN OR OTHER OBJECTIONABLE MATERIALS. FILL MATERIAL FOR THE CENTER OF THE EMBANKMENT, AND CUT OFF TRENCH SHALL CONFORM TO UNIFIED SOIL CLASSIFICATION GC, SC, CH, OR CL AND MUST HAVE AT LEAST 30% PASSING THE #200 SIEVE. CONSIDERATION MAY BE GIVEN TO THE USE OF OTHER MATERIALS IN THE EMBANKMENT IF DESIGNED BY A GEOTECHNICAL ENGINEER. SUCH SPECIAL DESIGNS MUST HAVE CONSTRUCTION SUPERVISED BY A GEOTECHNICAL ENGINEER. MATERIALS USED IN THE OUTER SHELL OF THE EMBANKMENT MUST HAVE THE CAPABILITY TO SUPPORT VEGETATION OF THE

QUALITY REQUIRED TO PREVENT EROSION OF THE EMBANKMENT PLACEMENT -- AREAS ON WHICH FILL IS TO BE PLACED SHALL BE SCARIFIED PRIOR TO PLACEMENT OF FILL. FILL MATERIALS SHALL BE PLACED IN MAXIMUM 8 INCH THICK (BEFORE COMPACTION) LAYERS WHICH ARE TO BE CONTINUOUS OVER THE ENTIRE LENGTH OF THE FILL. THE MOST PERMEABLE BORROW MATERIAL SHALL BE PLACED IN THE DOWNSTREAM PORTIONS OF THE EMBANKMENT. THE principal spillway must be installed concurrently with fill placement and not excavated into the embankment.

WET THAT WATER CAN BE SQUEEZED OUT.

WHEN REQUIRED BY THE REVIEWING AGENCY THE MINIMUM REQUIRED DENSITY SHALL NOT BE LESS THAN 95% OF MAXIMUM DRY DENSITY WITH A MOISTURE CONTENT WITHIN $+\-2\%$ of the optimum. Each layer of fill shall be compacted as necessary to obtain that density, and is to be certified by the engineer at the time of construction. All compaction is to be DETERMINED BY AASHTO METHOD T-99 (STANDARD PROCTOR).

cut off trench the cutoff trench shall be excavated into impervious material along or parallel to the centerline of THE EMBANKMENT AS SHOWN ON THE PLANS. THE BOTTOM WIDTH OF THE TRENCH SHALL BE GOVERNED BY THE EQUIPMENT USED FOR EXCAVATION, WITH THE MINIMUM WIDTH BEING FOUR FEET. THE DEPTH SHALL BE AT LEAST FOUR FEET BELOW EXISTING GRADE OR 4. BACKFILLING SHALL CONFORM TO STRUCTURE BACKFILL AS SHOWN ON THE PLANS. THE SIDE SLOPES OF THE TRENCH SHALL BE 1 TO 1 OR FLATTER. THE BACKFILL BHALL BE COMPACTED WITH CONSTRUCTION EQUIPMENT, ROLLERS, OR HAND TAMPERS TO ASSURE MAXIMUM DENSITY AND MINIMUM PERMEABILITY.

EMBANKMENT CORE - THE CORE SHALL BE PARALLEL TO THE CENTERLINE OF THE EMBANKMENT AS SHOWN ON THE PLANS. THE TOP WIDTH OF THE CORE SHALL BE A MINIMUM OF FOUR FEET. THE HEIGHT SHALL EXTEND UP TO AT LEAST THE 10 YEAR WATER ELEVATION PLACED CURRENTLY WITH THE OUTER SHELL OF THE OUTER SHELL OF THE EMBANKMENT.

STRUCTURE BACKFILL

BACKFILL ADJACENT TO PIPES OR STRUCTURES SHALL BE OF THE TYPE AND QUALITY CONFORMING TO THAT SPECIFIED FOR THE ADJOINING FILL MATERIAL. THE FILL SHALL BE PLACED IN HORIZONTAL LAYERS NOT TO EXCEED FOUR INCHES IN THICKNESS AND COMPACTED BY HAND TAMPERS OR OTHER MANUALLY DIRECTED COMPACTION EQUIPMENT. THE MATERIAL NEEDS TO FILL COMPLETELY ALL SPACES UNDER AND ADJACENT TO THE PIPE. AT NO TIME DURING THE BACKFILLING OPERATION SHALL DRIVEN EQUIPMENT BE ALLOWED TO OPERATED CLOSER THAN FOUR FEET, MEASURED HORIZONTALLY, TO ANY PART OF A STRUCTURE. UNDER NO CIRCUMSTANCES EQUIPMENT BE DRIVEN OVER ANY PART OF A CONCRETE STRUCTURE OR PIPE, UNLESS THERE IS A COMPACTED FILL OF 24" OR GREATER over the structure or pipe

STRUCTURE BACKFILL MAY BE FLOWABLE FILL MEETING THE REQUIREMENTS OF MARYLAND DEPARTMENT OF TRANSPORTATION, STATE HIGHWAY ADMINISTRATION STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS, SECTION 313 AS MODIFIED. THE MIXTURE SHALL HAVE A 100-200 PSI; 28 DAY UNCONFINED COMPRESSIVE STRENGTH. THE FLOWABLE FILL SHALL HAVE A MINIMUM PH OF 4.0 AND A MINIMUM RESISTIVITY OF 2,000 OHM-CM. MATERIAL SHALL BE PLACED SUCH THAT MINIMUM OF 6" (MEASURED PERPENDICULAR TO THE OUTSIDE OF THE PIPE) OF FLOWABLE FILL SHALL BE UNDER (BEDDING), OVER AND, ON THE SIDES OF THE PIPE IT ONLY NEEDS TO EXTEND UP TO THE SPRING LINE FOR RIGID CONDUITS. AVERAGE SLUMP OF THE FILL SHALL BE 7" TO ASSURE FLOWABILITY OF THE MATERIAL. ADEQUATE MEASURES SHALL BE TAKEN (SAND BAGS, ETC.) TO PREVENT FLOATING THE PIPE. WHEN USING FLOWABLE FILL, ALL METAL PIPE SHALL BE BITUMINOUS COATED. ANY ADJOINING SOIL FILL SHALL BE PLACED IN HORIZONTAL LAYERS NOT TO EXCEED FOUR INCHES IN THICKNESS AND COMPACTED BY HAND TAMPERS OR OTHER MANUALLY DIRECTED COMPACTION EQUIPMENT. THE MATERIAL SHALL COMPLETELY FILL ALL VOIDS ADJACENT TO THE FLOWABLE FILL ZONE. AT NO TIME DURING THE BACKFILLING OPERATION SHALL DRIVEN EQUIPMENT BE ALLOWED TO OPERATE CLOSER THAN FOUR FEET, MEASURED HORIZONTALLY, TO ANY PART OF THE STRUCTURE. UNDER NO CIRCUMSTANCES SHALL EQUIPMENT BE DRIVEN OVER ANY PART OF A STRUCTURE OR PIPE UNLESS THERE IS A COMPACTED FILL OF 24" OR GREATER OVER THE STRUCTURE OR PIPE. BACKFILL (FLOWABLE FILL)ZONE SHALL BE OF THE TYPE AND QUALITY CONFORMING TO THAT SPECIFIED FOR THE CORE OF THE EMBANKMENT OR OTHER EMBANKMENT MATERIALS.

PIPE CONDUITS

ALL PIPES SHALL BE CIRCULAR IN CROSS SECTION.

CORRUGATED METAL PIPE- ALL OF THE FOLLOWING CRITERIA SHALL APPLY FOR CORRUGATED METAL PIPE-

1. MATERIALS -- (POLYMER COATED STEEL PIPE)- STEEL PIPES WITH POLYMERIC COATING SHALL HAVE A MINIMUM COATING HICKNESS OF 0.01 INCH [10 MIL] ON BOTH SIDES OF THE PIPE. THIS PIPE AND TIS APPURTENANCES SHALL CUNFORM TO THE REQUIREMENTS OF AASHTO SPECIFICATIONS M-245 & M-246 WITH WATERTIGHT COUPLING BANDS OR FLANGES.

MATERIALS - (ALUMINUM COATED STEEL PIPE) - THIS PIPE AND ITS APPURTENANCES SHALL CONFORM TO THE REQUIREMENTS OF AASHTO SPECIFICATION M-274 WITH WATERTIGHT COUPLING BANDS OR FLANGES. ALUMINUM COATED STEEL PIPE, WHEN USED WITH FLOWABLE FILL OR WHEN SOIL AND/OR WATER CONDITIONS WARRANT THE NEED FOR INCREASED DURABILITY, SHALL BE FULLY BITUMINOUS COATED PER REQUIREMENTS OF AASHTO SPECIFICATION M-190 TYPE A. ANY ALUMINUM COATING DAMAGED OR TO BE IN CONTACT WITH CONCRETE SHALL BE PAINTED WITH ONE COAT OF ZINC CHROMATE PRIMER OR TWO COATS OF ASPHALT. POND BOTTOM SOIL CONDITIONS

IF BROKEN ROCK FRAGMENTS ARE ENCOUNTERED AT FINISHED POND BOTTOM, UNDER CUT A MINIMUM OF 12" BELOW BASIN GRADE AND TO A HORIZONTAL DISTANCE OF AT LEAST 18" BEYOND EACH EDGE OF THE BROKEN ROCK AND BACKFILL WITH FINE-GRAINED ML OR CL SOILS COMPACTED TO A FIRM CONDITION. THIS PROCEDURE SHOULD BE PERFORMED UNDER THE SUPERVISION OF THE PROJECT GEOTECHNICAL ENGINEER.

OPERATION, MAINTENANCE AND INSPECTION

INSPECTION OF THE POND(S) AND UNDERGROUND STONE TRENCH RESERVOIRS SHOWN HEREON SHALL BE PERFORMED AT LEAST ANNUALLY, IN ACCORDANCE WITH THE CHECKLIST AND REQUIREMENTS CONTAINED WITHIN USDA, SCS "STANDARDS AND SPECIFICATIONS FOR PONDS" (MD-378), THE POND OWNER(S) AND ANY HEIRS, SUCCESSORS, OR ASSIGNS SHALL BE RESPONSIBLE FOR THE SAFETY OF THE POND AND THE CONTINUED OPERATION. SURVEILLANCE, INSPECTION, AND MAINTENANCE THEREOF. THE POND OWNER(S) SHALL PROMPTLY NOTIFY THE SOIL CONSERVATION DISTRICT OF ANY UNUSUAL OBSERVATIONS THAT MAY BE INDICATIONS OF DISTRESS SUCH AS EXCESSIVE SEEPAGE, TURBID SEEPAGE, SLIDING OR SLUMPING.

OPERATION AND MAINTENANCE SCHEDULE FOR STORMWATER MANAGEMENT DETENTION FACILITY

STORMWATER MANAGEMENT FACILITY

ROUTINE MAINTENANCE BY HOA

1. FACILITY AND UNDERGROUND STONE TRENCH RESERVOIRS WILL BE INSPECTED ANNUALLY AND AFTER MAJOR STORMS. INSPECTIONS SHOULD BE PERFORMED DURING WET WEATHER TO DETERMINE IS FUNCTIONING PROPERLY. 2. TOP AND SIDE SLOPES OF THE EMBANKMENT SHALL BE MOWED A MINIMUM OF TWO (2) TIMES A YEAR, ONCE IN JUNE AND ONCE IN SEPTEMBER. OTHER SIDE SLOPES AND MAINTENANCE ACCESS SHOULD BE MOWED AS

NEEDED. 3. DEBRIS AND LITTER NEXT TO THE OUTLET STRUCTURE SHALL BE REMOVED DURING REGULAR MOWING OPERATIONS AND AS NEEDED. 4. VISIBLE SIGNS OF EROSION IN THE POND AS WELL AS RIPRAP OUTLET AREAS SHALL BE REPAIRED AS SOON AS IT IS NOTICED. NON-ROUTINE MAINTENANCE BY HOA

1. STRUCTURAL COMPONENTS OF THE POND SUCH AS THE DAM, THE RISER, AND THE PIPES SHALL BE REPAIRED UPON DETECTION OF ANY DAMAGE. THE COMPONENTS SHOULD BE INSPECTED DURING ROUTINE MAINTENANCE OPERATIONS.

2. SEDIMENT SHOULD BE REMOVED WHEN ITS ACCUMULATION SIGNIFICANTLY REDUCES THE DESIGN STORAGE, INTERFERE WITH THE FUNCTION OF THE RISER, WHEN DEEMED NECESSARY FOR AESTHETIC REASONS, OR WHEN DEEMED NECESSARY BY THE HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS.

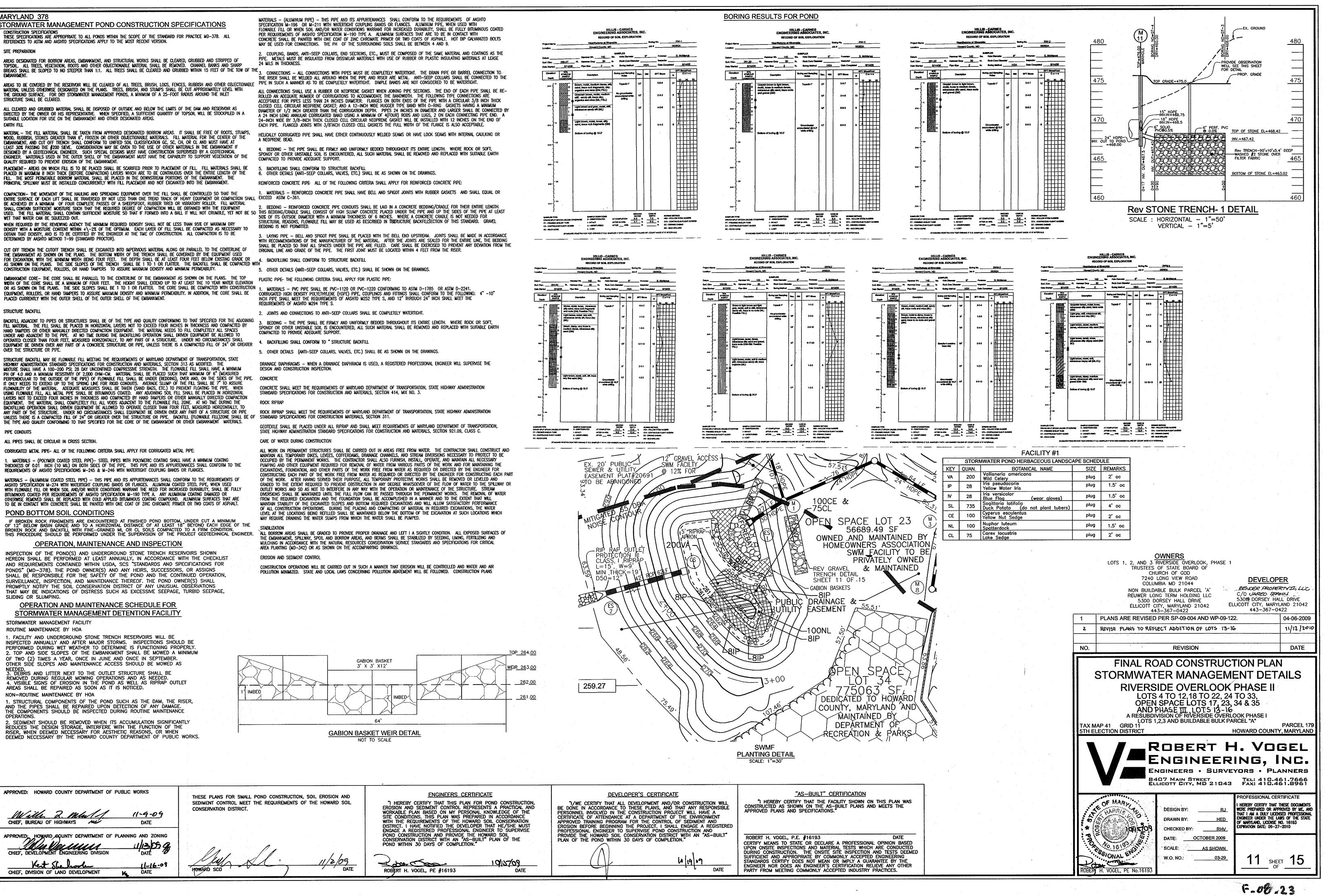
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COMPACTED TO PROVIDE ADEQUATE SUPPORT.

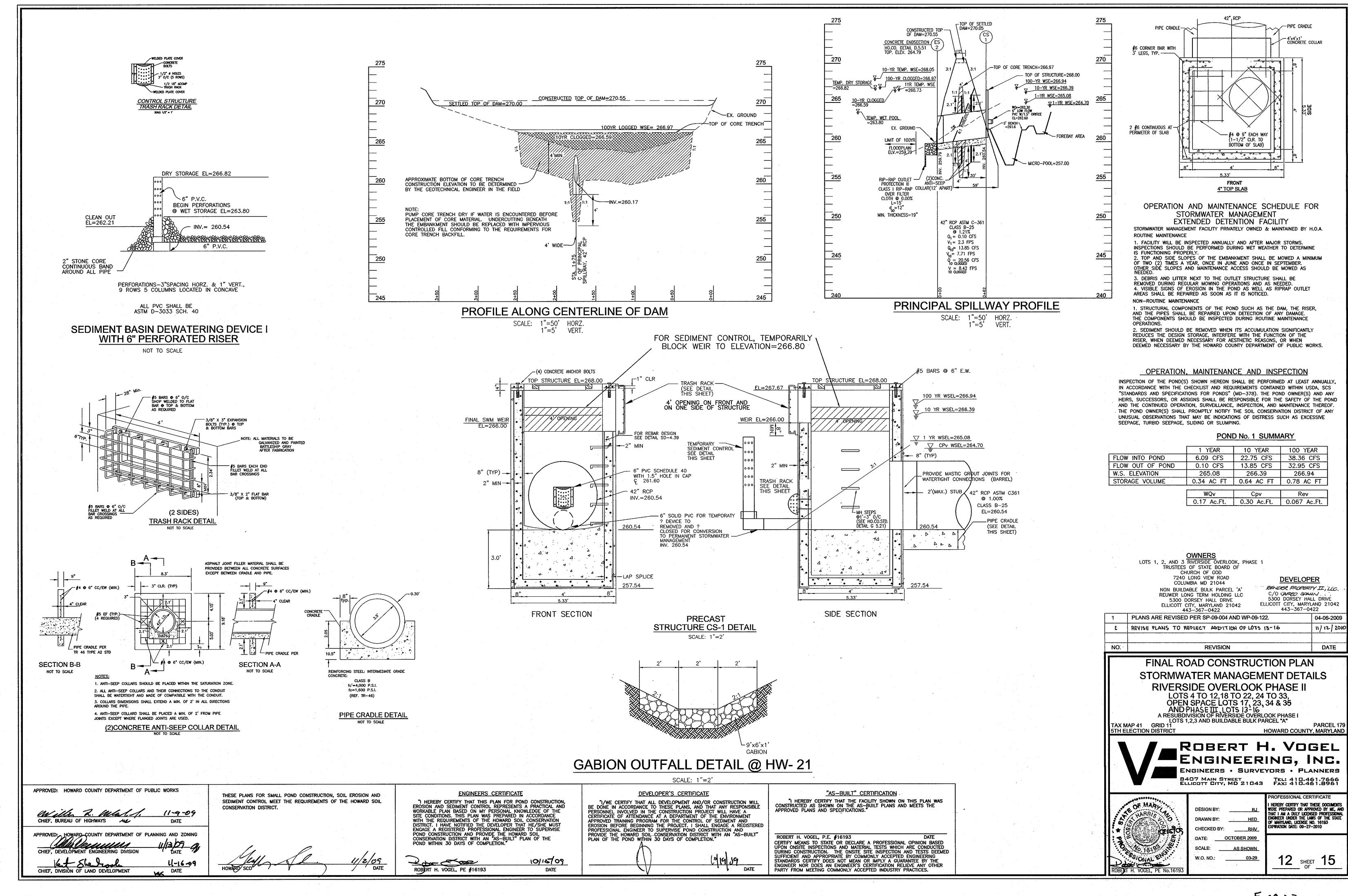
STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS, SECTION 414, MIX NO. 3.

MAY REQUIRE DRAINING THE WATER SUMPS FROM WHICH THE WATER SHALL BE PUMPED.

AREA PLANTING (MD-342) OR AS SHOWN ON THE ACCOMPANYING DRAWINGS.

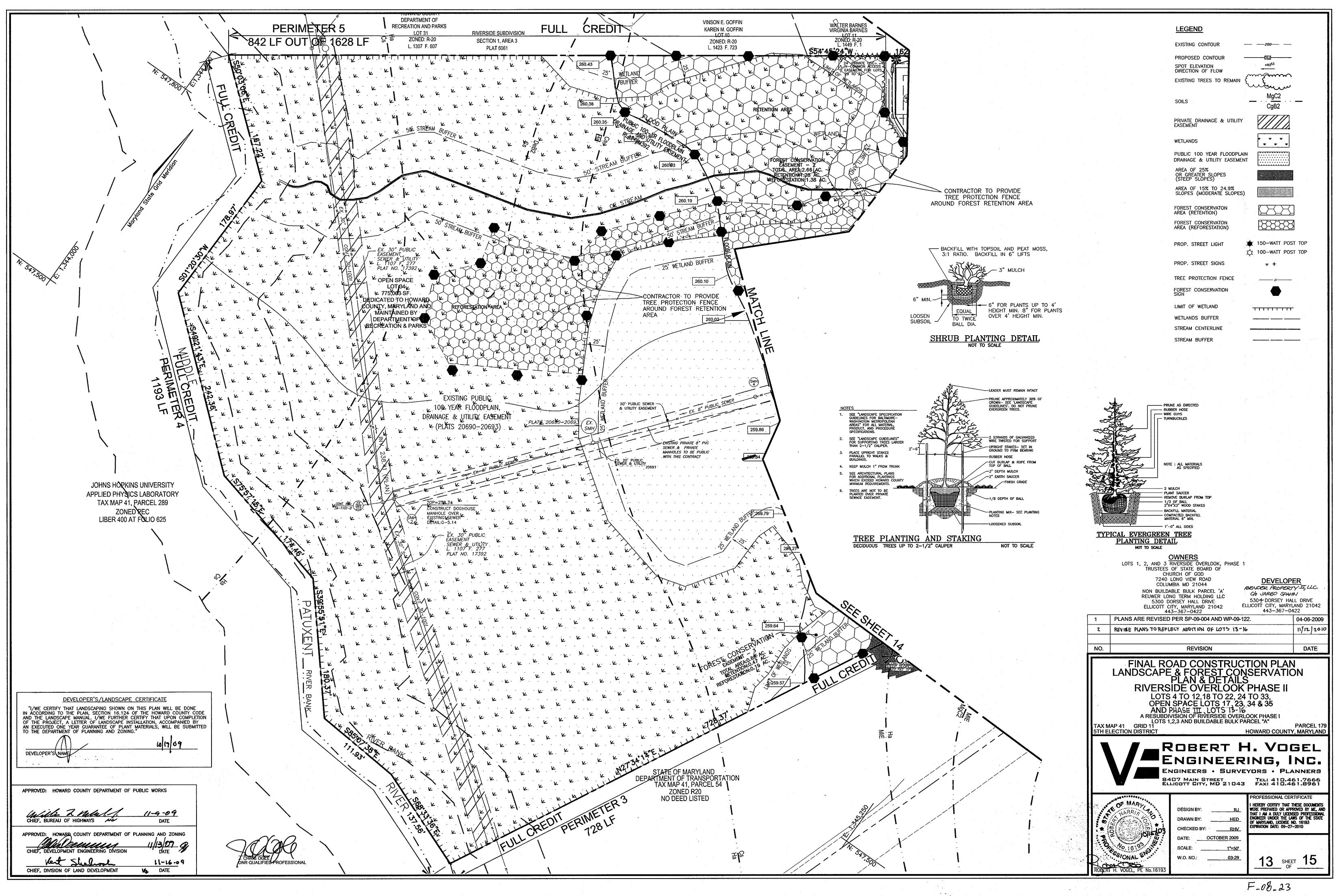


APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS <u>Miller</u> <u>2. <u>Miller</u> <u>11-9-09</u> CHIEF, BUREAU OF HIGHWAYS ME DATE</u>	THESE PLANS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.	ENGINEERS "I HEREBY CERTIFY THAT THIS EROSION AND SEDIMENT CONTRO WORKABLE PLAN BASED ON MY SITE CONDITIONS. THIS PLAN WA WITH THE REQUIREMENTS OF TH
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING	Mul 21. 11/2/09	DISTRICT. I HAVE NOTIFIED THE ENGAGE A REGISTERED PROFESS POND CONSTRUCTION AND PROV CONSERVATION DISTRICT WITH AI POND WITHIN 30 DAYS OF COM
CHIEF, DIVISION OF LAND DEVELOPMENT K DATE	HOWARD SCD DATE	ROBERT H. VOGEL, PE #16193



	1 YEAR	10 YEAR	100 YEAR	
FLOW INTO POND	6.09 CFS	22.75 CFS	38.36 CFS	
FLOW OUT OF POND	0.10 CFS	13.85 CFS	32.95 CFS	
W.S. ELEVATION	265.08	266.39	266.94	
STORAGE VOLUME	0.34 AC FT	0.64 AC FT	0.78 AC FT	
	WQv	Сру	Rev	
	0.47 4.5 1		0.007 4. 51	

F.08.23





	* SOILS LEGEND
SYMBOL	NAME / DESCRIPTION
CgB2	COMUS SILT LOAM
Cs	CHESTER GRAVELLY SILT LOAM, 3 TO 8 PERCENT SLOPE
EkD2	DELANCO SILT LOAM, 3 TO 8 PERCENT SLOPES, MODER
GIC2	ELIOAK SILT LOAM, 15 TO 25 PERCENT SLOPES, MODER
GID2	GLENELG LOAM, 8 TO 15 PERCENT SLOPES, MODERATEL
Ha	GLENELG LOAM, 15 TO 25 PERCENT SLOPES, MODERATE
MgB2	HATBORO SILT LOAM
MgC2	MANOR GRAVELLY LOAM, 8 TO 15 PERCENT SLOPES, MO
MIE	MANOR LOAM, 25 TO 45 PERCENT SLOPES

DEVELOPER'S AGREEMENT

THE 29 (SOUTHBOUND)

STREET TREES ARE PROVIDED FOR THIS PROJECT IN ACCORDANCE WITH SECTION 16.124(e)(1) OF THE SUBDIVISION REGULATIONS AND THE LANDSCAPE MANUAL. A FINANCIAL SURETY IN THE AMOUNT OF \$13,800.00 TO BE POSTED AS PART OF THE DEVELOPER'S AGREEMENT FOR THE REQUIRED 46 PUBLIC STREET TREES.

**

CgB2_N

**

ZONED: K-20

FULL CREDIT 132 LF

ONED: R 20

REGIS DVORSKY ANITA DVORSKY LOT 21 ZONED: R-20 L. 6174 F/246

CHURCH OFF

LOT 8 ZONED: R-20

WI (#

EASEMEN

EX. BUILDING

-

LOT 7 ZONED: R-20

EX. BUILD.

FINANCIAL SURETY FOR THE REQUIRED LANDSCAPING PROVIDED PER THE LANDSCAPE MANUAL TO BE POSTED WITH THE DEVELOPER'S AGREEMENT. THE TOTAL LANDSCAPE SURETY AMOUNT SHOULD BE \$26,040 (51 SHADE TREES X \$300.00=\$15,300.00 + 51 EVERGREEN TREES X 150.00 = 7,650.00 + 15 SHRUBS x 30.00 = 450.00 +132 FEET OF WALL LENGTH X \$20.00 = \$2,640 LANDSCAPE NOTES

150-WATT POST TOP AT THE TIME OF PLANT INSTALLATION, ALL TREES LISTED AND APPROVED ON THE LANDSCAPE PLAN, SHALL COMPLY WITH THE 100-WATT POST TOP PROPER HEIGHT REQUIREMENT IN ACCORDANCE WITH THE HOWARD COUNTY LANDSCAPE MANUAL IN ADDITION, NO SUBSTITUTIONS OR RELOCATION OF THE REQUIRED PLANTINGS MAY BE MADE WITHOUT PRIOR REVIEW AND APPROVAL FROM THE DEPARTMENT OF PLANNING AND ZONING. ANY DEVIATIONS FROM THE APPROVED LANDSCAPE PLAN MAY RESULT IN DENIAL OR DELAY IN THE RELEASE OF LANDSCAPE SURETY UNTIL SUCH TIME AS ALL REQUIRED MATERIALS ARE PLANTED AND/OR REVISIONS ARE MADE TO THE ROAD DRAWING PLANS.

> THE OWNER, TENANTS AND/OR THEIR AGENTS SHALL BE RESPONSIBLE FOR MAINTENANCE OF THE REQUIRED PERIMETER LANDSCAPING. ALL PLANT MATERIALS SHALL BE MAINTAINED IN GOOD GROWING CONDITION, AND WHEN NECESSARY, REPLACED WITH NEW MATERIALS TO ENSURE CONTINUED COMPLIANCE WITH APPLICABLE REGULATIONS. ALL OTHER REQUIRED LANDSCAPING SHALL BE PERMANENTLY MAINTAINED IN GOOD CONDITION, AND WHEN NECESSARY, REPAIRED OR REPLACED.

DEVELOPER'S LANDS I/WE CERTIFY THAT LANDSCAF ACCORDING TO THE PLAN, SE AND THE LANDSCAPE MANUAL COMPLETION OF THE PROJECT ACCOMPANIED BY AN EXECUTE WILL BE SUBMITTED TO THE DEVELOPER'S NAME \sim 1. S. M.

<u>LEGEND</u> -440-᠁ᢙᠬ᠇ᠬ man

LIMIT OF WETLAND WETLANDS BUFFER STREAM CENTERLINE STREAM BUFFER PROP. STREET LIGHT

SOILS

- RIME

EX. BUILDING

HSLU P HONG YU FEN LEE HUNG LÓT 20 ZONED: R-20 L/1516 F. 305

Jul

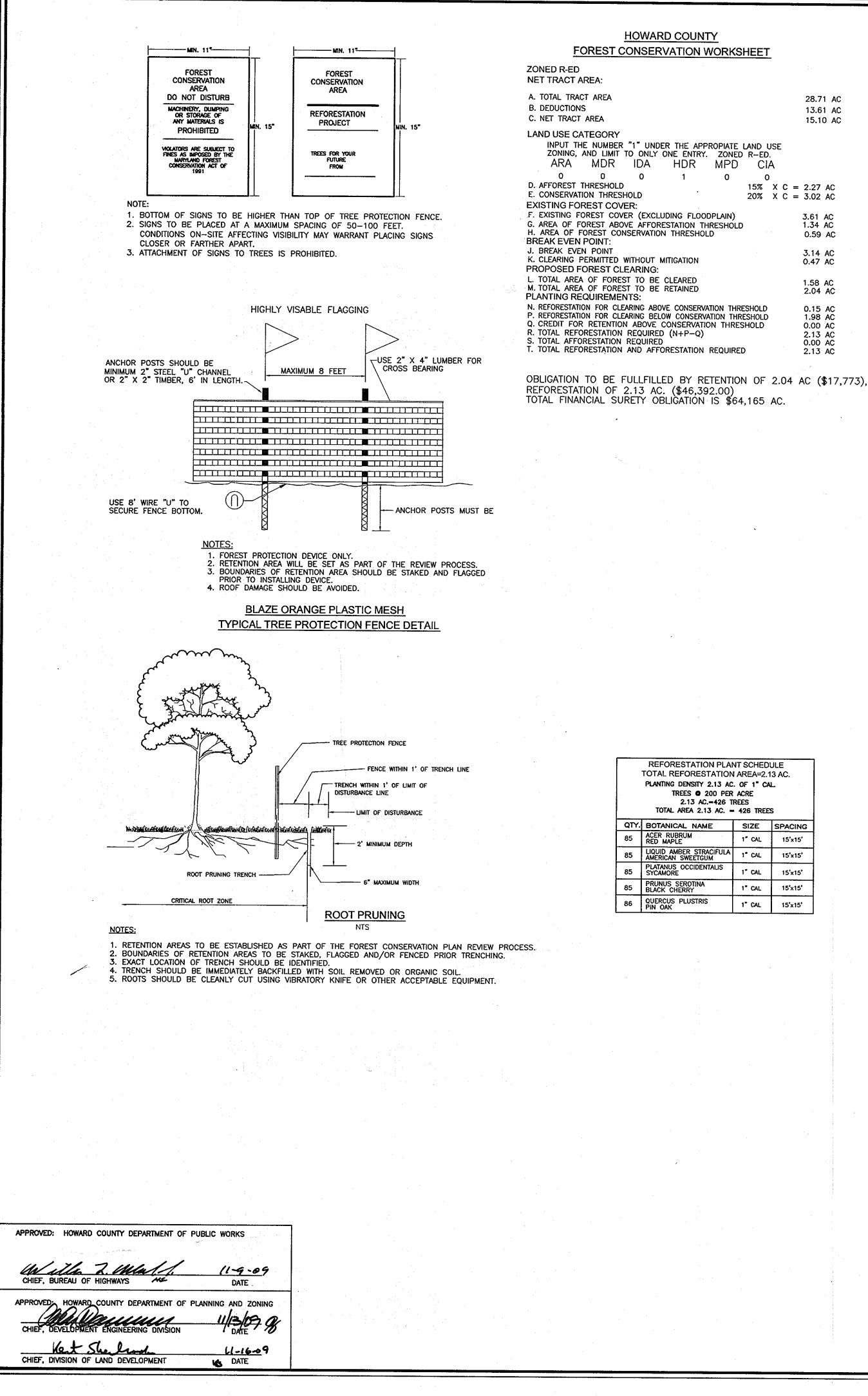
CONTICUOUS STITEP STOPES 44.900 SP

EX. BUILDING

PROP. STREET SIGNS υ + FOREST CONSERVATION SIGN

LIMIT OF DISTURBANCE ________

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RED	2.13 AC

1" CAL 15'x15' 15'x15' 1" CAL 15'x15' 1" CAL 15'x15' 1" CAL 15'x15' **REFORESTATION PLANTING NOTES**

- 1. REFORESTATION AREAS MAY BE PLANTED AS SOON AS REASONABLE TO DO SO. LATE WINTER-EARLY SPRING PLANTINGS ARE PREFERRED. EARLIEST PLANTING DATES WILL VARY FROM YEAR TO YEAR BUT PLANTING MAY GENERALLY BEGIN AS SOON AS THE GROUND IS NO LONGER FROZEN. ALTERNATE PLANTING DATES MAY BE CONSIDERED AS CONDITION WARRANTS.
- 2. SOIL AMENDMENTS AND FERTILIZATION RECOMMENDATIONS WILL BE MADE BASED UPON THE RESULTS OF SOIL ANALYSIS FOR NITROGEN. PHOSPHORUS, POTASSIUM, ORGANIC MATTER CONTENT AND pH. REQUIRED, FERTILIZER WILL BE PROVIDED USING A SLOW RELEASE, SOLUBLE 16-8-16 ANALYSIS DESIGNED TO LAST 5-8 YEARS CONTAINED IN POLYETHYLENE PERFORATED BAGS SUCH AS MANUFACTURED BY ADCO WORKS, P.O. BOX 310 HOLLINS, N.Y. 11423 OR APPROVED EQUAL. 3. PLANT MATERIALS WILL BE PLANTED IN ACCORDANCE WITH THE
- PLANTING DETAILS AND PLANT SCHEDULE.
- 4. PLANT MATERIAL SHALL BE NURSERY GROWN AND INSPECTED PRIOR TO PLANTING. PLANTS NOT CONFORMING TO THE AMERICAN STANDARD FOR NURSERY STOCK SPECIFICATIONS FOR SIZE, FORM, VIGOR, OR ROOTS, OR DUE TO TRUNK WOUNDS, BREAKAGE, DESICCATION, INSECT OR DISEASE MUST BE REPLACED.
- 5. PLANTING STOCK MUST BE PROTECTED FROM DESICCATION AT ALL TIMES PRIOR TO PLANTING. MATERIALS HELD FOR PLANTING SHALL BE MOISTENED AND PLACED IN COOL SHADED AREAS UNTIL READY FOR PLACEMENT.
- 6. NEWLY PLANTED TREES MAY REQUIRE WATERING AS LEAST ONCE PER WEEK DURING THE FIRST GROWING SEASON DEPENDING ON RAINFALL IN ORDER TO GET ESTABLISHED. THE INITIAL PLANTING OPERATION SHOULD ALLOW FOR WATERING DURING INSTALLATION TO COMPLETELY SOAK BACKFILL MATERIAL. 7. MULCH SHALL BE APPLIED IN ACCORDANCE WITH THE DIAGRAM
- PROVIDED AND SHALL CONSIST OF COMPOSTED, SHREDDED HARDWOOD BARK MULCH, FREE OF WOOD ALCOHOL 8. ALL NURSERY STOCK TO BE SPRAYED WITH DEER REPELLENT
- CONTAINING BITREX, SUCH AS REPELLEX. ALL NURSERY STOCK TO BE GROWN WITH DEER REPELLENT TABLETS IN GROWING MEDIUM, SUCH AS REPELLEX TABLETS.
- **REFORESTATION AREA MONITORING NOTES**
- 1. MONTHLY VISITS DURING THE FIRST GROWING SEASON ARE TO ASSESS THE SUCCESS OF THE PLANTINGS AND TO DETERMINE IF SUPPLEMENTAL WATERING, PEST CONTROL OR OTHER ACTIONS ARE NECESSARY. EARLY SPRING VISITS WILL DOCUMENT WINTER KILL AND AUTUMN VISITS WILL DOCUMENT SUMMER KILL.
- 2. THE MINIMUM SURVIVAL RATE SHALL BE 75% OF THE TOTAL NUMBER OF TREES PLANTED PER ACRE AT THE END OF THE TWO YEAR MAINTENANCE PERIOD. WILD TREE SEEDLINGS FROM NATURAL REGENERATION ON THE PLANTING SITE MAY BE COUNTED UP TO 50% TOWARD THE TOTAL SURVIVAL NUMBER IF THE ARE HEALTHY NATIVE SPECIES AT LEAST 12 INCHES TALL.
- 3. SURVIVAL WILL BE DETERMINED BY A STRATIFIED RANDOM SAMPLING OF THE PLANTINGS. THE SPECIES COMPOSITION OF THE SAMPLE POPULATION SHOULD BE PROPORTIONATE TO THE AMOUNT OF EACH SPECIES IN THE ENTIRE PLANTING TO BE SAMPLED.
- 4. EFFECTIVE MONITORING WILL ASSESS PLANT SURVIVABILITY DURING THE FIRST GROWING SEASON AND MAKE RECOMMENDATIONS FOR REINFORCEMENT PLANTINGS IF REQUIRED AT THAT TIME.

FOREST CONSERVATION EASEMENT TABLE TOTAL RETENTION: 2.04 AC. TOTAL REFORESTATION: 2.13 AC.	
FOREST CONSERVATION RETENTION REFORESTATION TOTAL	0.29 AC. 0.56 AC. 0.85 AC.
FOREST CONSERVATION RETENTION REFORESTATION TOTAL	EASEMENT 2 1.28 AC. 1.38 AC. 2.66 AC
FOREST CONSERVATION RETENTION REFORESTATION	EASEMENT 3 0.47 AC 0.19 AC.

FOREST RETENTION AREAS AND NOTES

- 1. FORESTED STREAM AND WETLAND BUFFERS ARE RETAINED IN OPEN SPACE LOTS.
- 2. NO RARE, THREATENED OR ENDANGERED SPECIES WERE OBSERVED ON THIS SITE. 3. FORESTED AREAS ADJACENT TO FLOODPLAINS AND STREAM BUFFERS ARE SUBSTANTIALLY
- RETAINED IN OPEN SPACE LOTS. 4. THERE ARE NO ISOLATED FOREST STANDS ON THIS SITE.
- 5. CHANGES IN GRADING AND RUNOFF WITHIN CONSTRUCTION/INSTALLATION AREAS WILL NOT ADVERSELY AFFECT THE SOILS WITHIN THE FOREST RETENTION AREA. SEDIMENT CONTROL MEASURES WILL REDIRECT CONCENTRATED FLOW RUNOFF TO STORMWATER MANAGEMENT
- WATER AWAY FROM CONSTRUCTION AREAS. 6. FOREST CONSERVATION REQUIREMENTS PER SECTION 16,1200 OF THE HOWARD COUNTY CODE, DPZ AND THE FOREST CONSERVATION MANUAL FOR THIS SUBDIVISION WILL BE FULFILLED BY THE RETENTION OF EXISTING FOREST IN THE AMOUNT OF 2.04 AC., REFORESTATION OF 2.13 AC. THE TOTAL FOREST CONSERVATION OBLIGATION FOR THIS PROJECT IS 4.17 AC. AND IS PROVIDED ON-SITE.
- 7. THE FOREST CONSERVATION EASEMENT HAS BEEN ESTABLISHED TO FULFILL THE REQUIREMENTS OF SECTION 16.1200 OF THE HOWARD COUNTY CODE. NO CLEARING. GRADING OR CONSTRUCTION IS PERMITTED WITHIN THE FOREST CONSERVATION EASEMENT, HOWEVER, FOREST MANAGEMENT PRACTICES AS DEFINED IN THE DEED OF FOREST CONSERVATION EASEMENT ARE ALLOWED.

FOREST PROTECTION NOTES

- PRE-CONSTRUCTION ACTIVITES
- 1. FOR RETENTION AREAS, INSTALL BLAZE ORANGE FENCE AND RETENTION SIGNS BEFORE CONSTRUCTION BEGINS. 2. FENCING SHALL BE MAINTAINED IN GOOD CONDITION AND
- PROMPTLY REPAIRED OR RESTORED AS THE SITUATION WARRANTS. 3. A QUALIFIED TREE CARE EXPERT SHALL DETERMINE IF ROOT PRUNING IS REQUIRED ALONG THE LIMIT OF DISTURBANCE. ROOT PRUNE TREES AS REQUIRED.

MONITOR FOR SIGNS OF STRESS DURING CONSTRUCTION.

CONSTRUCTION PHASE

RETENTION AREA.

- 1. NO DISTURBANCE OR DUMPING IS ALLOWED INSIDE THE TREE
- 2. NO EQUIPMENT SHALL BE OPERATED INSIDE THE TREE
- RETENTION AREA INCLUDING TREE CANOPIES. 3. IN THE EVENT OF DROUGHT, THE PROTECTED TREES SHALL BE

MONITORED FOR SIGNS OF STRESS AND WATERED AS NEEDED. POST-CONSTRUCTION ACTIVITIES

- 1. AT THE DIRECTION OF A QUALIFIED TREE CARE EXPERT, DAMAGES
- TO RETAINED TREES SHALL BE REPAIRED BY THE CONTRACTOR.
- 2. FENCE REMOVAL AND STABILIZATION SHALL BE AS PER THE SEDIMENT AND EROSION CONTROL PLAN.
- 3. DO NOT REMOVE SIGNS.

COST ESTIMATE: (For bonding purposes, only)

 $(RETENTION - 2.04 \text{ AC. } 88,426.8 \times 0.20 = $ 17,773$ (REFORESTATION - (2.13 AC.) 92782.80 SF x .50 = \$46,392.00)SURETY NOTE

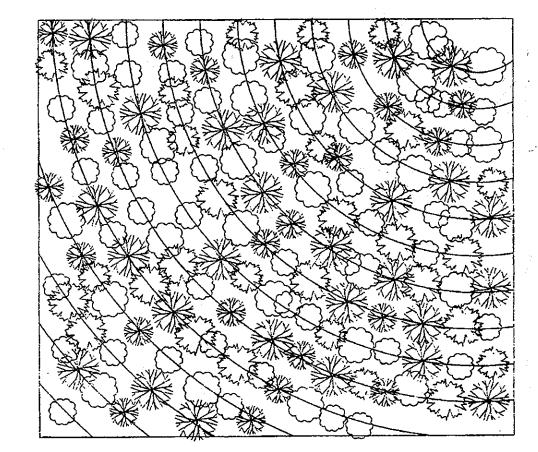
FINANCIAL SURETY IN THE AMOUNT OF \$64,165 WILL BE POSTED WITH THE FC MAINTENANCE AGREEMENT.

- SEQUENCE OF CONTRUCTION-FOREST CONSERVATION PRECONSTRUCTION MEETING /SITE WALK WITH CONTRACTORS AND OTHER RESPONSIBLE PARTIES TO DEFINE PROTECTION MEASURES TO BE UTILIZED AND TO POINT OUT PARTICULAR TREES TO BE SAVED.
- 2. STAKE OUT LIMITS OF DISTURBANCE AND TREE PROTECTION FENCING LOCATIONS.
- 3. INSTALL TREE PROTECTION FENCING: FENCING TO BE INSPECTED BY THE PROJECT ENGINEER OR THE PROJECT ECOLOGIST AND HOWARD COUNTY PLANNING AND ZONING.
- 4. PROCEED WITH TREE REMOVAL AND SITE IMPROVEMENTS AS PER APPROVED SEDIMENT CONTROL PLAN TO BE INSPECTED BY HOWARD COUNTY PLANNING AND ZONING.
- 5. TEMPORARY TREE PROTECTION DEVICES SHALL BE REMOVED AFTER ALL FINISHED GRADING AND UTILITY CONSTRUCTION HAS OCCURED AND WITH APPROVAL FROM THE HOWARD COUNTY OFFICE OF PLANNING AND ZONING.

6. REMOVAL OF HAZARDOUS TREES (DEAD, DISEASED, OR THOSE SUBJECT TO WIND THROW) WILL BE ALLOWED ALONG THE EDGE OF THE FOREST RETENTION EASEMENT AREA AS WELL AS WITHIN OTHER TREE SAVE AREAS. ALL SUCH REMOVALS SHALL BE NOTED AS PART OF THE CONSTRUCTION SEQUENCE FOR THIS PROJECT.

FACILITIES, RETAIN SEDIMENT WITHIN THE CONSTRUCTION SITE, AND/OR REDIRECT CLEAN

WATER ANY ROOT-PRUNED TREES IMMEDIATELY AFTER ROOT-PRUNING AND



PLANT PLACEMENT DETAIL NOT TO SCALE

MIX TREE AND SHRUB SPECIES IN THE STAGING AREA. 2. THE PROJECT MANAGER WILL SET THE GUIDE CURVILINEAR LINE. AS CLOSE TO CONTOUR AS POSSIBLE

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