## LEGEND

# LIMIT OF DISTURBANCE ORANGE SAFETY FENCE SOIL STABILIZATION MATTING TREE PROTECTION FENCE NON-TIDAL WETLAND mm EXISTING TREE LINE EXISTING SEWER LINE STABILIZED CONSTRUCTION ENTRANCE EXISTING STORM DRAIN EX. TREES EXIST. MAJOR CONTOUR EXIST. MINOR CONTOUR PROP. CONTOURS ⊗ PST PORTABLE SEDIMENT TANK STANDARD INLET PROTECTION WETLAND BUFFER -TEL/ELEC-EXISTING TELEPHONE/ELECTRIC EXISTING GAS EXISTING CABLE

# INDEX OF SHEETS

SHEET NO.

DESCRIPTION

TITLE SHEET

STORM DRAIN PLAN PROFILE & DETAILS

> **EROSION & SEDIMENT CONTROL PLAN SHEET** EROSION & SEDIMENT CONTROL NOTES & DETAILS

# SITE ANALYSIS DATA CHART

TOTAL PROJECT AREA: 0.11 ACRES.

DISTURBED AREA: 0.11 ACRES (4,981 SF).

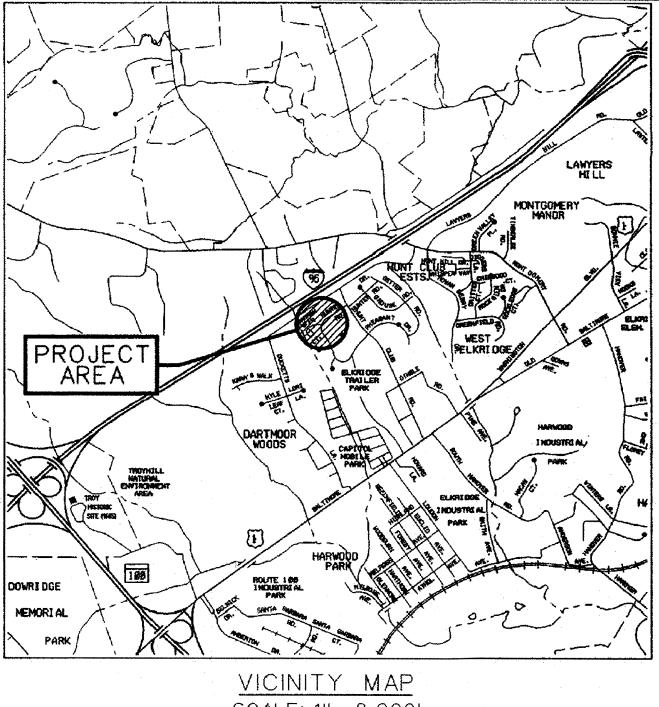
PROPOSED USE FOR THE SITE: DRAINAGE IMPROVEMENTS

APPLICABLE DPZ FILE REFRENCES: F-87-042/PLAT NO. 7749, F-88-183.

# STIPA COURT DRAINAGE IMPROVEMENTS

# HOWARD COUNTY, MARYLAND STORMWATER MANAGEMENT DIVISION CAPITAL PROJECT D-1118

- 1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF HOWARD COUNTY AND MSHA STANDARDS AND SPECIFICATIONS, IF APPLICABLE.
- 2. 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 ANY EXCAVATION WORK
- 3. THE CONTRACTOR SHALL NOTIFY "MISS UTILITY" AT 1-800-257-7777 AT LEAST 5 DAYS PRIOR TO ANY EXCAVATION WORK BEING DONE
- 4. THE COORDINATES SHOWN HEREON ARE BASED ON HOWARD COUNTY GEODETIC CONTROL, WHICH IS BASED UPON THE MARYLAND STATE PLANE COORDINATE SYSTEM. BENCHMARKS SHOWN HEREON WERE PROVIDED BY HOWARD COUNTY SURVEY DIVISION AND AB CONSULTANTS.
- 5. EXISTING UTILITIES ARE BASED ON FIELD SURVEYS AND AVAILABLE RECORD
- 6. THE WETLAND DELINEATION FOR THIS PROJECT WAS PERFORMED BY HOWARD COUNTY DPW.
- 7. TOPOGRAPHIC SURVEY OF THE SITE WAS PERFORMED BY AB CONSULTANTS, INC. IN NOVEMBER 2011.
- 8. A JOINT PERMIT HAS BEEN ISSUED BY THE MARYLAND DEPARTMENT OF THE ENVIRONMENT FOR THIS PROJECT. (12-NT-0119/201260507)
- 9. NO TRAFFIC STUDY IS REQUIRED FOR THIS PROJECT. 10. OBSTRUCTIONS SHOWN ON THIS DRAWING ARE FOR THE CONVENIENCE OF THE CONTRACTOR ONLY AND KCITECHNOLOGIES, INC. DOES NOT WARRANT OR GUARANTEE THE CORRECTNESS OR COMPLETENESS OF THE INFORMATION GIVEN. THE CONTRACTOR MUST VERIFY SUCH INFORMATION TO HIS OWN SATISFACTION.
- 11. SHOULD THE CONTRACTOR DISCOVER ANY DISCREPANCIES BETWEEN THE PLANS AND THE FIELD CONDITIONS, THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY TO RESOLVE THE SITUATION. SHOULD THE CONTRACTOR MAKE FIELD CORRECTIONS OR ADJUSTMENTS WITHOUT NOTIFYING THE ENGINEER,
- THE CONTRACTOR ASSUMES ALL RESPONSIBILITY FOR THOSE CHANGES. 12. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE EXISTING UTILITIES AND MAINTAIN UNINTERRUPTED SERVICE. ANY DAMAGE INCURRED DUE TO THE CONTRACTOR'S OPERATION SHALL BE
- REPAIRED IMMEDIATELY. 13. EXISTING GROUND, FENCE LINE, PLAYGROUND EQUIPMENT, AND/OR VEGETATION DISTURBED BY THE PROPOSED WORK SHALL BE RESTORED TO PRE-CONSTRUCTION CONDITION OR BETTER BY CONCLUSION OF THE PROJECT.
- 14. THE PROPOSED PROJECT IS LOCATED OFF OF STIPA COURT AND IS ADJACENT TO HUNTER ROAD.



SCALE: 1" = 2,000"

OK ROAD
ND 21152
316-7800
-7818



STIPA COURT DRAINAGE IMPROVEMENTS

TITLE SHEET

**APRIL 2012** 01-081795.70 CONSTRUCTION ISSUE:

AS - BUILT CERTIFICATION

I HEREBY CERTIFY THAT THE FACILITY SHOWN ON THIS PLAN WAS CONSTRUCTED AS SHOWN ON THE "AS-BUILT" PLANS AND MEETS THE APPROVED PLANS AND SPECIFICATIONS.



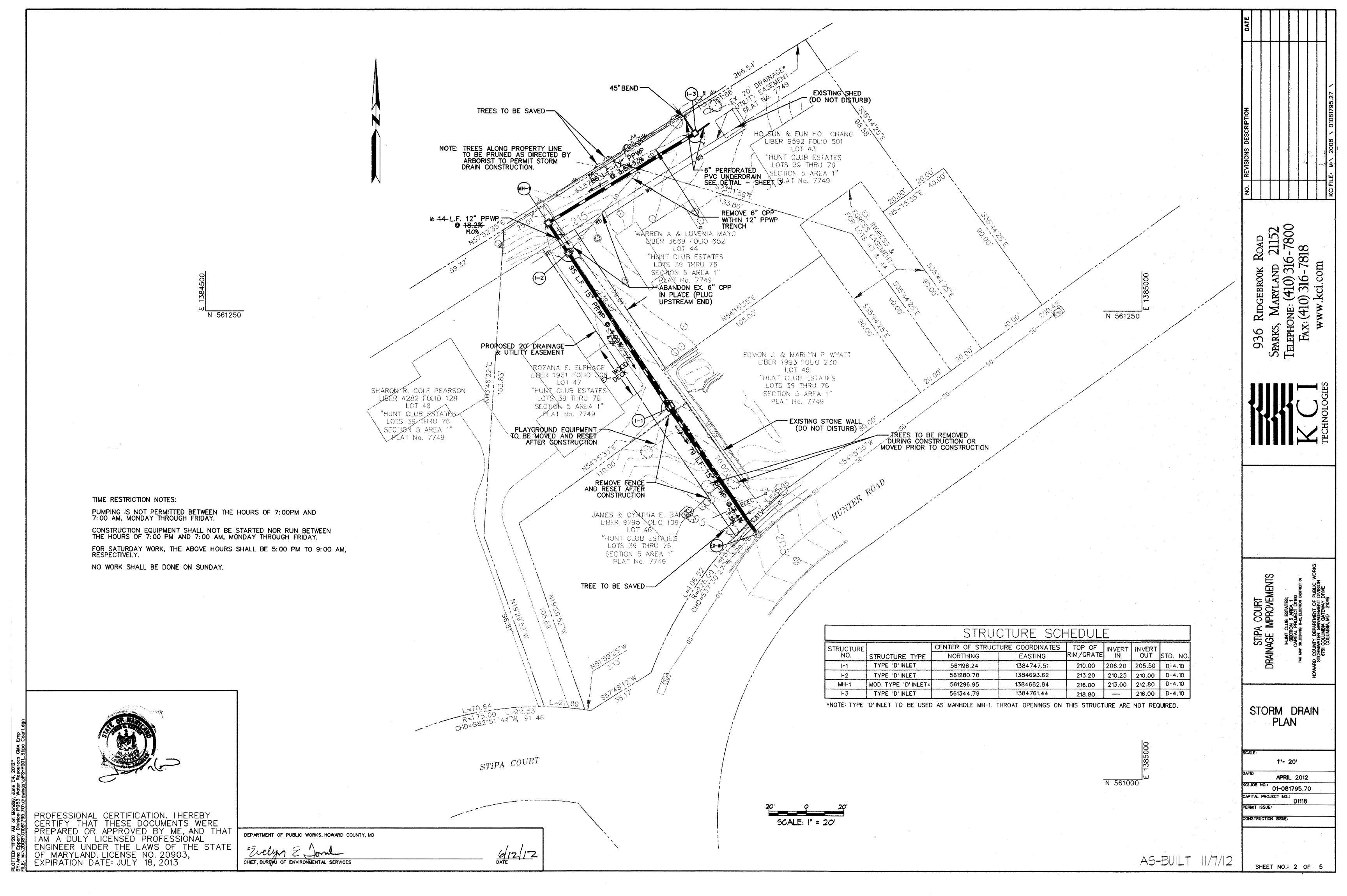


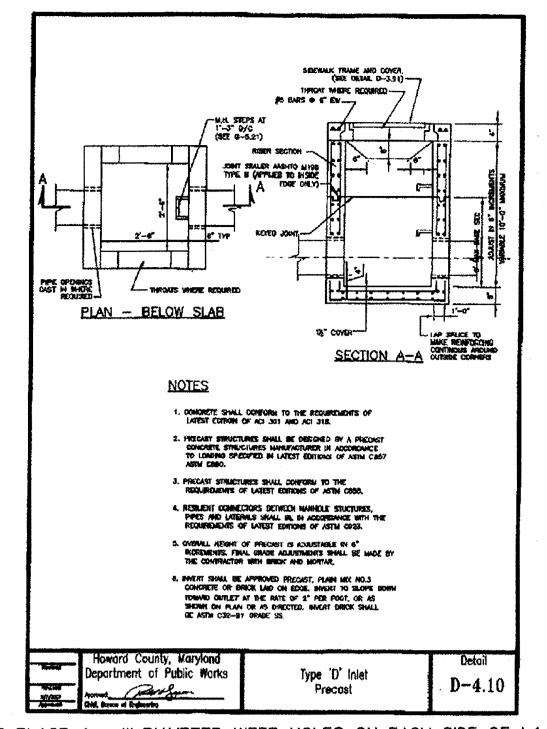
PROFESSIONAL CERTIFICATION. I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND LICENSE NO. 20903, EXPIRATION DATE: JULY 18, 2013

DEPARTMENT OF PUBLIC WORKS, HOWARD COUNTY, MD

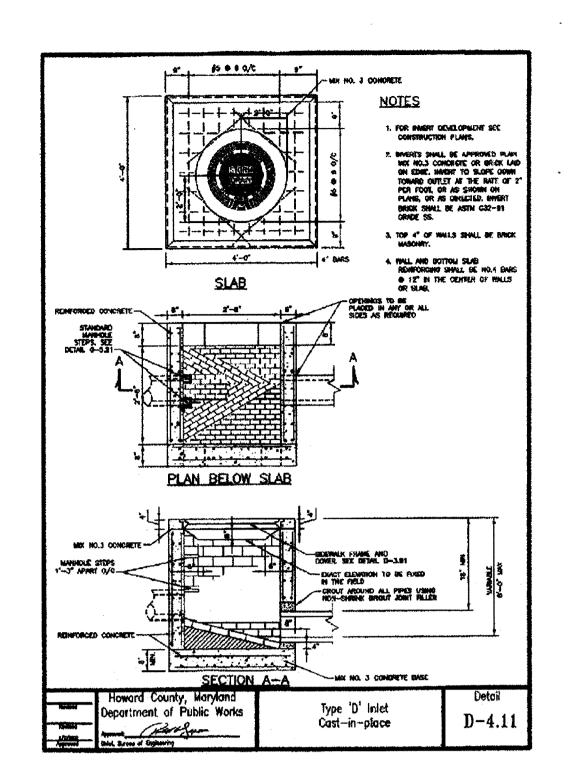
SHEET NO.: 1 OF 5

11/7/12

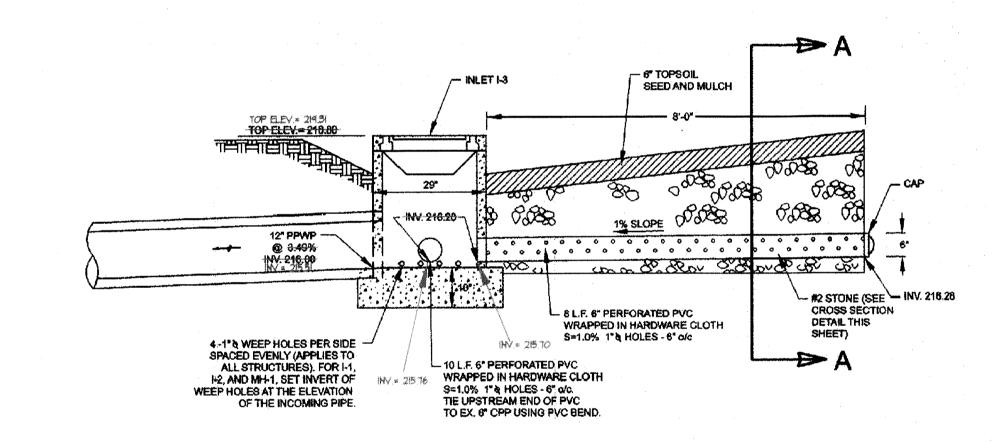




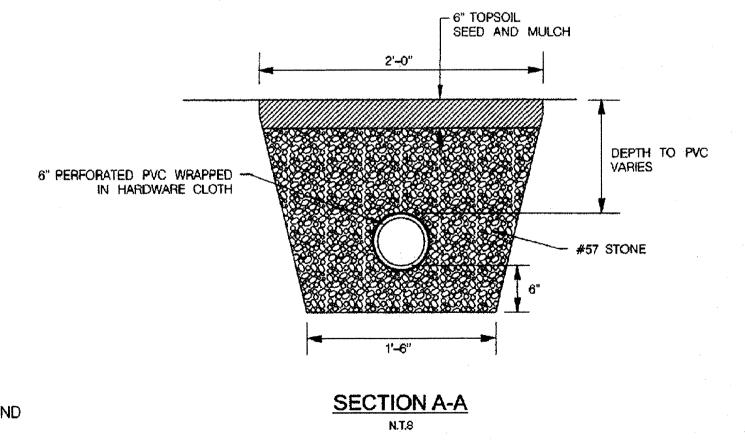
NOTE: PLACE 4 - 1" DIAMETER WEEP HOLES ON EACH SIDE OF I-1, I-2, I-3, AND MH-1 AS INDICATED ON THE UNDERDRAIN DETAIL, THIS SHEET. EXTEND NO. 57 STONE AROUND BOTTOM OF STRUCTURES TO PROTECT WEEP HOLES.



D-4.10 INLET
TR. 216.00 MH-1 0-4.10 INLET TR: 218.80 D-410 INLET PROPOSED D-4.10 INLET TOP ELEV: 197. -6" UNDERDRAIN PROPOSED GROUND -LINES BOTTOM ELEV: 204.7 BOTTOM ELEV: 203.4 BOE 2" GAS LINE BOTTOM-ELEV-2028-EXISTING MANHOLE PROPOSED 6" UNDERDRAIN TR 205 10 INV. 216.20 84 **86 LF PROPOSED** 12" PPWP **a** 3.44% \_\_\_\_\_\_ 16-14 F PROPOSED ABANDON EX. 6 CPP - EXISTING 15" RCP INV. = 200.46 --- 12" FRWP 4 18 21% -200 19 LF PROPOSED 45 LF PROPOSED - EXISTING 15" RCP 15 PPWP @ 6.38% 15" PPWP @ 4.00% MY. = 200.51 EXISTING 6" CPP <del>-200:46</del>---(TO BE REMOVED)



## **ELEVATION** SCALE: 1"= 2"



**UNDERDRAIN DETAIL** 



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. 20903, EXPIRATION DATE: JULY 18, 2013

PIPE PROFILE

# NOTES:

1. TIE IN ROOF LEADERS FROM WYATT PROPERTY TO 15" PPWP. 2. TWO 6" PERFORATED PVC PIPES WRAPPED IN HARDWARE CLOTH TO

BE CONNECTED TO PROPOSED INLET I-3. (SEE DETAIL, THIS SHEET) 3. USE CAUTION WHEN EXCAVATING IN VICINITY OF EXISTING UNDERGROUND UTILITIES.

DEPARTMENT OF PUBLIC WORKS, HOWARD COUNTY, MD CHIEF, BUREAU OF ENVIRONMENTAL SERVICES

AS-BUILT 1/7/2012

STIPA COURT DRAINAGE IMPROVEMENTS HUNT CLUB ESTATES; SECTION 5 AREA 1 CAPITAL PROJECT DINGO P 38, ZONNIG P-12, ELECTION D **PROFILE** & DETAILS

AS SHOWN

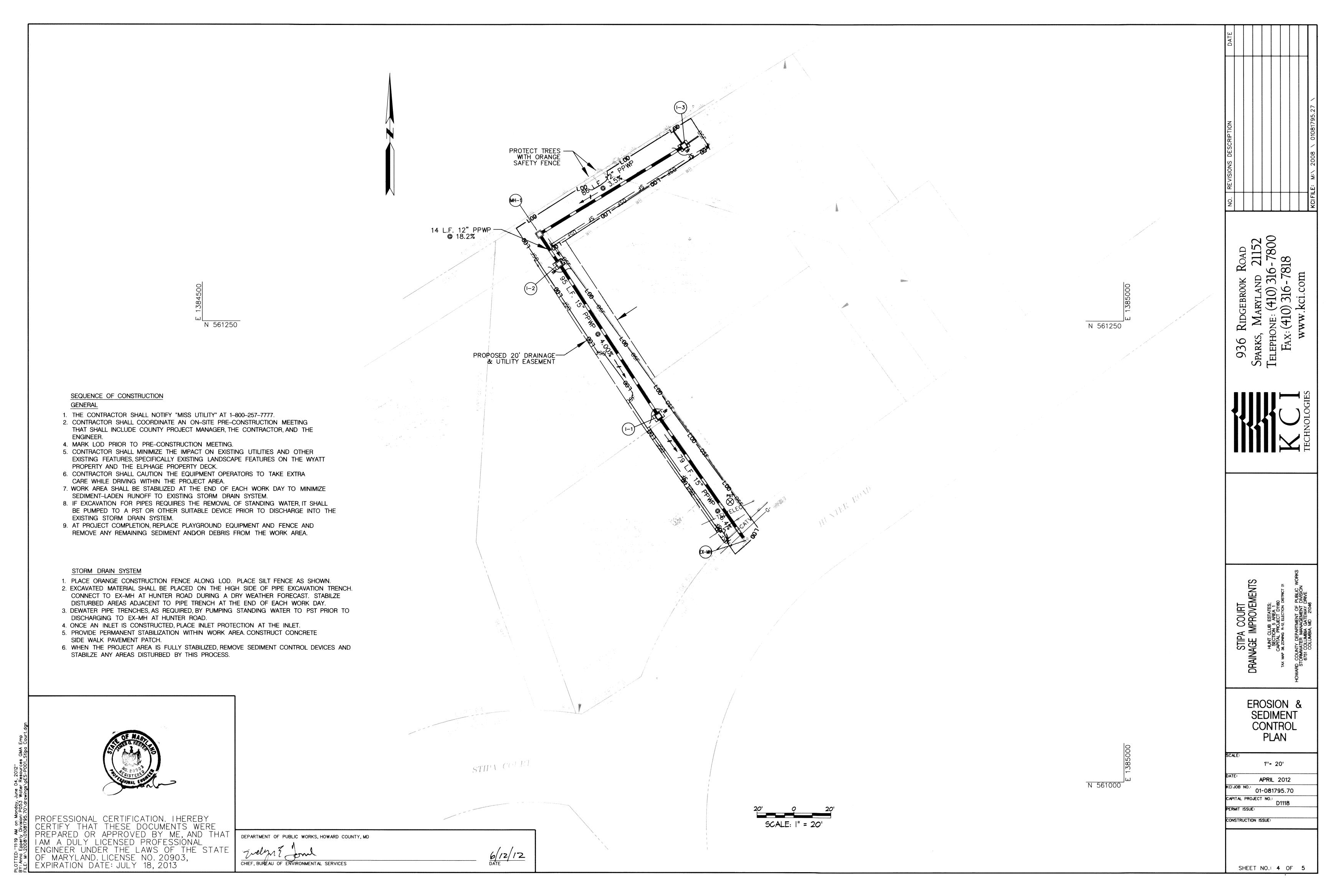
APRIL 2012

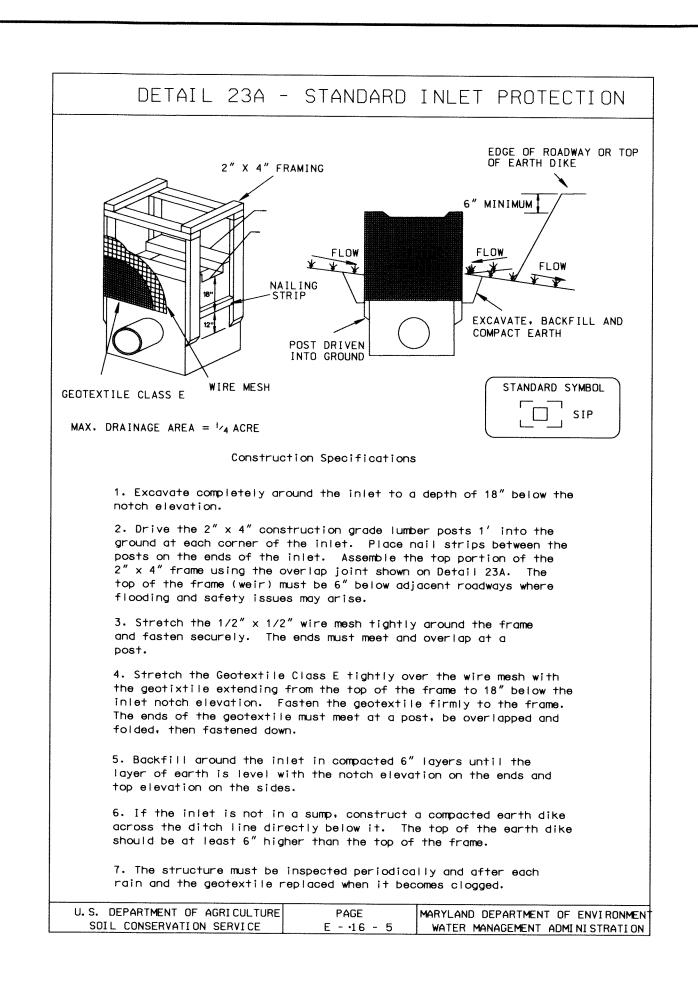
01-081795.70

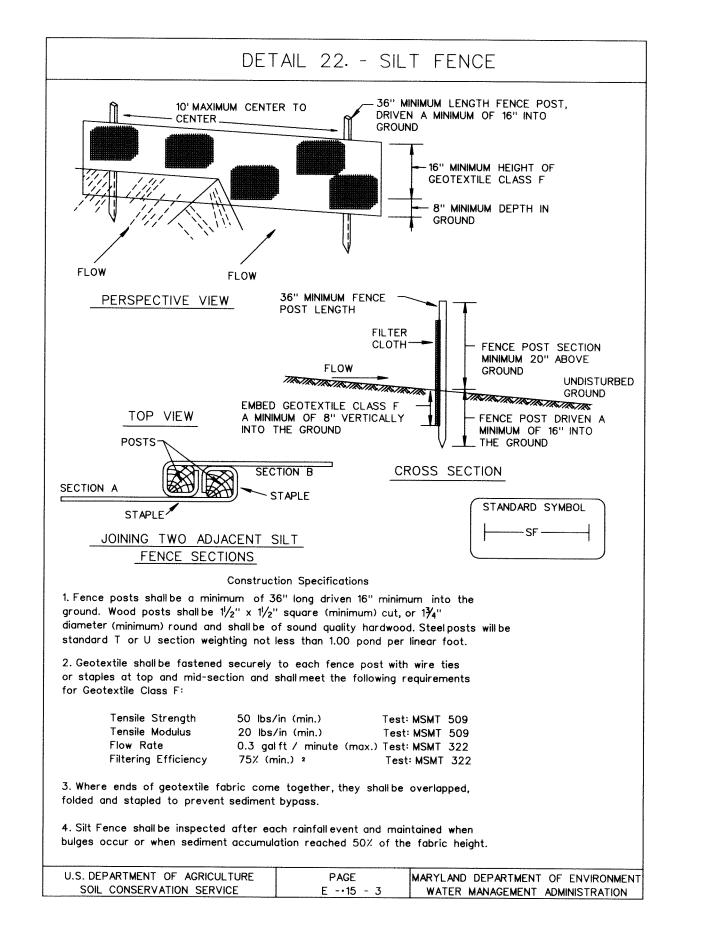
SHEET NO.: 3 OF 5

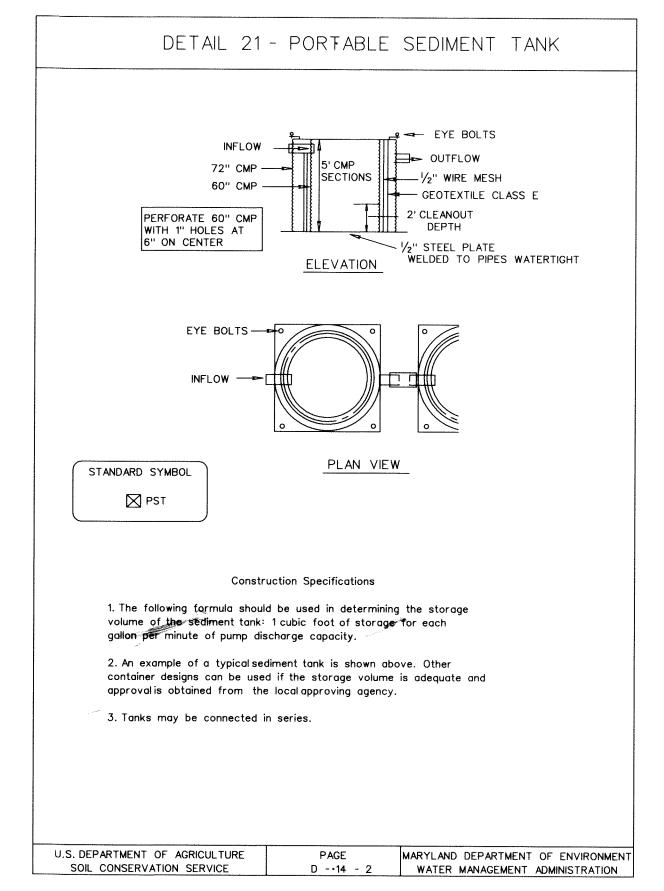
APITAL PROJECT NO.:

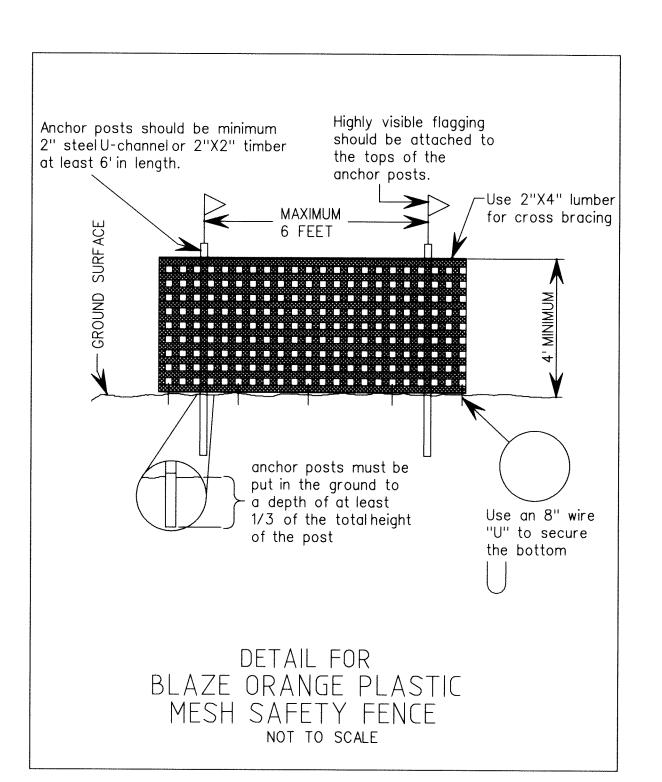
CONSTRUCTION ISSUE:











TEMPORARY VEGATATIVE STABILIZATION

LOOSEN UPPER THREE INCHES BY DISCING, RAKING OR OTHER ACCEPTABLE MEANS

APPLY 600 LBS PER ACRE OF 10-10-10 FERTILIZER AND TWO TONS PER ACRE OF LIME.

OF CEREAL RYE PLUS 30 LBS PER ACRE OF TALL FESCUE OR 5 LBS PER ACRE OF REDTOP OR 20 LBS PE ACRE OF PERENNIAL RYEGRASS. FOR PERIOD OF MAY 1 TO AUGUST 14, SEED WITH 3 LBS PER ACRE OF WEEPING LOVEGRASS OR 40 LBS PER ACRE OF JAPANESE OR FOXTAIL MILLET

D) MULCHING SPECIFICATIONS: MULCH SHALL BE APPLIED TO ALL SEEDED AREAS IMMEDIATELY AFTER SEEDING

APPLY 2 TONS PER ACRE OF STRAW OVER ALL SEEDED AREAS. IF A MULCH ANCHORING TOOL IS TO BE

MULCH ANCHORING SHALL BE PERFORMED IMMEDIATELY FOLLOWING MULCH APPLICATION TO MINIMIZE LOSS BY WIND AND WATER. THE TYPE OF MULCH ANCHORING USED MUST COMPLY WITH 4. THE 1994 MARYLAND STANDARD AND SPECIFICATION \* IF OTHER SEED MIXES ARE TO BE SUBSTITUTED, THEY MUST COMPLY WITH THE 1994 MARYLAND STANDARD AND SPECIFICTAIONS, CHAPTER 20, TABLE 25. \*\* IF A DIFFERENT TYPE OF MULCH IS TO BE USED, IT MUST COMPLY WITH THE 1994 MARYLAND 5.

PERMANENT VEGATATIVE STABILIZATION ALL DISTURBED AREAS, WHICH ARE NOT TO BE PAVED, SHALL BE PERMANENTLY STABILIZED AS

LOOSEN UPPER THREE INCHES BY RAKING, DISCING, OR OTHER ACCEPTABLE MEANS AFTER SPREADING

APPLY 500 LBS PER ACRE OF 10-10-10 FERTILIZER AND TWO TONS PER ACRE OF LIME.

FOR PERIODS OF MARCH 1 TO MAY 15 AND AUGUST 15 TO OCTOBER 15, SEED WITH 125 LBS PER ACRE OF TALL FESCUE, 15 LBS PER ACRE OF PERENNIAL RYEGRASS, AND 10 LBS OF KENTUCKY BLUEGRASS FOR PERIOD OF MAY 16 TO AUGUST 14, SEED WITH 110 LBS PER ACRE OF TALL FESCUE AND 3 LBS PER FOR PERIOD OF OCTOBER 16 TO FEBRUARY 28 PROTECT SITE BY:

OPTIONS - 1) 2 TONS PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING, 2) USE SOD, OR 3) SEED WITH 60 LBS PER ACRE OF TALL FESCUE AND MULCH WITH 2 TONS PER ACRE OF WELL ANCHORED STRAW.

NOTE: FOR QUICK COVER WITH TALL FESCUE, ADD 2 LBS OF SMALL GRAIN PER 1,000 SQ. FT. MULCH SHALL BE APPLIED TO ALL SEEDED AREAS IMMEDIATELY AFTER SEEDING. APPLY 2 TONS PER ACRE OF STRAW OVER ALL SEEDED AREAS. IF A MULCH ANCHORING TOOL IS TO BE

USED, THE RATE SHALL BE INCREASED TO 2.5 TONS PER ACRES.\*\* MULCH ANCHORING SHALL BE PERFORMED IMMEDIATELY FOLLOWING MULCH APPLICATION TO MINIMIZE LOSS BY WIND AND WATER. THE TYPE OF MULCH ANCHORING USED MUST COMPLY WITH THE 1994 MARYLAND STANDARD AND SPECIFICATIONS

\* IF OTHER SEED MIXES ARE TO BE SUBSTITUTED, THEY MUST COMPLY WITH THE 1994 MARYLAND STANDARD AND SPECIFIC TAIONS, CHAPTER 20, TABLE 25. \*\* IF A DIFFERENT TYPE OF MULCH IS TO BE USED, IT MUST COMPLY WITH THE 1994 MARYLAND STANDARD AND SPECIFICTION, CHAPTER 20.

### **HOWARD COUNTY CONSERVATION DISTRICT** STANDARD SEDIMENT CONTROL NOTES

1. A MINIMUM OF 48 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY DIVISION PRIOR TO THE START OF ANY CONSTRUCTION (313-1855).

FOR PERIODS OF MARCH 1 TO APRIL 30 AND AUGUST 15 TO NOVEMBER 15, SEED WITH 2.5 BU PER ACRE 2. ALL VEGETATIVE AND STRUCTURAL PRACTICES ARE TO BE INSTALLED HE PROVISIONS OF THIS PLAN AND ARE TO BE D CONFORMANCE WITH THE MOST CURRENT MARYLAND STANDARDS AND

FOLLOWING INITIAL SOIL DISTURBANCE OR RE-DISTURBANCE, PERMANENT ORTEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN: A) 7 CALENDAR

SLOPES AND ALL SLOPES GREATER THAN 3:1, B) 14 DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE. ALL SEDIMENT TRAPS/BASINS SHOWN MUST BE FENCED AND WARNING SIGN POSTED AROUND THEIR PERIMETER IN ACCORDANCE WITH VOL 1, CHAPTER 12 OF

THE HOWARD COUNTY DESIGN MANUAL, STORM DRAINAGE. ALL DISTURBED AREAS MUST BE STABILIZED WITHIN THE TIME PERIOD SPECIFIED ABOVE IN ACCORDANCE WITH THE 1994 MARYLAND STANDARDS AND SPECIFICATION FOR SOIL EROSION AND SEDIMENT CONTROL FOR PERMANENT SEEDING (SEC. 51), SOD (SEC. 54), TEMPORARY SEEDING (SEC. 50) AND MULCHING

SEC. 52). TEMPORARY STABILIZATION WITH MULCH ALONE CAN ONLY BE DONE

WHEN RECOMMENDED SEEDING DATES DO NOT ALLOW FOR PROPER GERMINATION AND ESTABLISHMENT OF GRASSES ALL SEDIMENT CONTROL STRUCTURES ARE TO REMAIN IN PLACE AND ARE TO BE MAINTAINED IN OPERATIVE CONDITION UNTIL PERMISSION FOR THEIR REMOVAL HAS BEEN OBTAINED FROM THE HOWARD COUNTY SEDIMENT CONTROL

SITE ANALYSIS:

TOTAL AREA OF SITE 0.11 ACRES AREA DISTURBED 0.11 ACRES AREA TO BE ROOFED OR PAVED 0 ACRES AREA TO BE VEGETATIVELY STABILIZED 0.11 ACRES TOTAL CUT 96 CU. YARDS 96 CU. YARDS OFFSITE WASTE/BORROW AREA LOCATION TO BE DETERMINED\*

ANY SEDIMENT CONTROL PRACTICE WHICH IS DISTURBED BY GRADING ACTIVITY FOR PLACEMENT OF UTILITIES MUST BE REPAIRED ON THE SAME DAY

BY THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.

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 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.

TRENCHES FOR THE CONSTRUCTION OF UTILITIES IS LIMITED TO THREE PIPE LENGTHS OR THAT WHICH SHALL BE BACK-FILLED AND STABILIZED BY THE END OF EACH WORK DAY, WHICHEVER IS SHORTER.

\*OFFSITE WASTE/BORROW SITE SHALL HAVE AN APPROVED SEDIMENT CONTROL PLAN.

# 21.0 STANDARD AND SPECIFICATIONS FOR TOPSOIL

**DEFINITION** DEPARTMENT OF INSPECTIONS, LICENSES AND PERMITS, SEDIMENT CONTROL

PLACEMENT OF TOPSOIL OVER A PREPARED SUBSOIL PRIOR TOSTABLISHMENT OF PERMANENT VEGETATION.

SPECIFICATION FOR SOIL EROSION AND SEDIMENT CONTROL AND REVISIONS TO PROVIDE A SUITABLE SOIL MEDIUM FOR VEGETATIVE GROWTH. SOILS OF CONCERN HAVE LOW MOISTURE CONTENT, LOW NUTRIENT LEVELS, LOW PH, MATERIALS TOXIC TO PLANTS, AND/OR UNACCEPTABLE SOIL GRADATION.

DAYS FOR ALL PERIMETER SEDIMENT CONTROL STRUCTURES, DIKES, PERIMETER CONDITIONS WHERE PRACTICE APPLIES

THIS PRACTICE IS LIMITED TO AREAS HAVING 2:1 OR FLATTER SLOPES

- THE TEXTURE OF THE EXPOSED SUBSOIL/PARENT MATERIAL IS NOT ADEQUATE TO PRODUCE VEGETATIVE GROWTH.
- THE SOIL MATERIAL IS SO SHALLOW THAT THE ROOTING ZONE IS NOT DEEP ENOUGH TO SUPPORT PLANTS OR FURNISH CONTINUING SUPPLIES OF MOISTURE AND PLANT NUTRIENTS.
- THE ORIGINAL SOIL TO BE VEGETATED CONTAINS MATERIAL TOXIC TO
- THE SOIL IS SO ACIDIC THAT TREATMENT WITH LIMESTONE IS NOT FEASIBLE. II. FOR THE PURPOSE OF THESE STANDARD SPECIFICATIONS, AREAS HAVING SLOPES NOTE: TOPSOIL SUBSTITUTES OR AMENDMENTS, AS RECOMMENDED BY A QUALIFIED STEEPER THAN 2:1 REQUIRE SPECIAL CONSIDERATION AND DESIGN FOR ADEQUATE STABILIZATION. AREAS HAVING SLOPES STEEPER THAN 2:1 SHALL HAVE THE APPROPRIATE STABILIZATION SHOWN ON THE PLANS.

# CONSTRUCTION AND MATERIAL SPECIFICATIONS

I. TOPSOIL SALVAGED FROM THE EXISTING SITE MAY BE USED PROVIDED THAT IT MEETS THE STANDARDS AS SET FORTH IN THESE SPECIFICATIONS. TYPICALLY, THE DEPTH OF TOPSOIL TO BE SALVAGED FOR A GIVEN SOIL TYPE CAN BE FOUND IN THE REPRESENTATIVE SOIL PROFILE SECTION IN THE SOIL SURVEY PUBLISHED BY USDA-SCS IN COOPERATION WITH MARYLAND AGRICULTURAL EXPERIMENTAL STATION.

ADDITIONAL SEDIMENT CONTROL MUST BE PROVIDED, IF DEEMED NECESSARY II. TOPSOIL SPECIFICATIONS - SOIL TO BE USED AS TOPSOIL MUST MEET THE FOLLOWING: ii. TOPSOIL MUST BE FREE OF PLANTS OR PLANT PARTS SUCH A BERMUDA GRASS. QUACKGRASS, JOHNSONGRASS, NUTSEDGE, POISON IVY, THISTLE, OR OTHERS AS

> WHERE THE SUBSOIL IS EITHER HIGHLY ACIDIC OR COMPOSED OF HEAVY CLAYS, GROUND LIMESTONE SHALL BE SPREAD AT THE RATE OF 4-8 TONS/ACRE (200-400 POUNDS PER 1,000 SQUARE FEET) PRIOR TO THE PLACEMENT OF TOPSOIL. LIME SHALL BE DISTURBED CONJUNCTION WITH TILLAGE OPERATIONS AS DESCRIBED IN THE FOLLOWING PROCEDURES

# III. FOR SITES HAVING DISTURBED AREAS UNDER 5 ACRES:

i. PLACE TOPSOIL (IF REQUIRED) AND APPLY SOIL AMENDMENTS AS SPECIFIED IN 20.0 VEGETATIVE STABILIZATION - SECTION I -VEGETATIVE STABILIZATION METHODS AND MATERIALS.

# IV. FOR SITES HAVING DISTURBED AREAS OVER 5 ACRES:

- i. ON SOIL MEETING TOPSOIL SPECIFICATIONS, OBTAIN TEST RESULTS DICTATING FERTILIZER AND LIME AMENDMENTS REQUIRED TO BRING THE SOIL INTO COMPLIANCE WITH THE FOLLOWING:
- a. PH FOR TOPSOIL SHALL BE BETWEEN 6.0 AND 7.5. IF THE TESTED SOIL DEMONSTRATES A PH OF LESS THAN 6.0, SUFFICIENT LIME SHALL BE PRESCRIBED TO RAISE THE PH TO 6.5 OR HIGHER.
- b. ORGANIC CONTENT OF TOPSOIL SHALL BE NOT LESS THAN 1.5 PERCENT BY
- c. TOPSOIL HAVING SOLUBLE SALT CONTENT GREATER THAN 500 PARTS PER MILLION SHALL NOT BE USED.
- d. NO SOD OR SEED SHALL BE PLACED ON SOIL WHICH HAS BEEN TREATED WITH SOIL STERILANTS OR CHEMICALS USED FOR WEED CONTROL UNTIL SUFFICIENT TIME AS ELAPSED (14 DAYS MIN.) TO PERMIT DISSIPATION OF PHYTO-TOXIC MATERIALS.
- AGRONOMIST OR SOIL SCIENTIST AND APPROVED BY THE APPROPRIAT APPROVAL AUTHORITY, MAY BE USED IN LIEU OF NATURAL TOPSOIL.
- ii. PLACE TOPSOIL (IF REQUIRED) AND APPLY SOIL AMENDMENTS AS SPECIFIED IN 20.0 VEGETATIVE STABILIZATION - SECTION I
- iii. TOPSOIL SHALL BE UNIFORMLY DISTRIBUTED IN A 4" 8" LAYER AND LIGHTLY COMPACTED TO A MINIMUM THICKNESS OF 4". SPREADING SHALL BE PERFORMED IN SUCH A MANNER THAT SODDING OR SEEDING CAN PROCEED WITH A MINMUM OF ADDITIONAL SOIL PREPARATION AND TILLAGE. ANY IRREGULARITIES IN THE SURFACE RESULTING FROM TOPSOILING OR OTHER OPERATIONS SHALL BE
- iv. TOPSOIL SHALL NOT BE PLACED WHILE THE TOPSOIL OR SUBSOIL IS IN A FROZEN OR MUDDY CONDITION, WHEN THE SUBSOIL IS EXCESSIVELY WET OR IN A CONDITION THAT MY OTHERWISE BE DETRIMENTAL TO PROPER GRADING AND SEEDBED PREPARATION. CORRECTED IN ORDER TO PREVENT THE FORMATION OF DEPRESSIONS OR

TOTAL DISTURBED AREA: 0.11 AC.

# DEDMANIENT CEEDING CHAMAD

		PERMANENT	SEEDING	SUMMARY				
SEED MIXTURE (HARDINESS ZONE 6B ) FERTILIZER RATE FROM TABLE 25 (10-20-20)								LIME
	NO. SPECIES	APPLICATION RATE (LB/AC)	SEEDING DATES	SEED ING DEPTHS	N	P205	K20	
	TALL FESCUE (85%) 1 PERENNIAL RYEGRASS (10%) KENTUCKY BLUEGRASS (5%)	125 15 10	3/1-5/15 8/15-10/15	1-2 INCH	90 LB/AC	175 lb/ac	175 lb/ac	2 tons/ac
	2 KENTUCKY BLUEGRASS (50%) HARD FESCUE (40%) RED TOP (10%)	150	3/1-5/15 8/15-10/15	1-2 INCH	1000 SF)	1000 SF)	1000 SF)	1000 SF)
					·•·	<u>.</u>	<u> </u>	I

# TEMPODADY SEEDING SHAMADY

		TEMPURA	RY SEEDIN	G SUMMAR	₹ Y 	
	) MIXTURE (HARDINE M TABLE 26	ESS ZONE 6B )	FERTILIZER RATE	LIME		
NO.	SPECIES	APPLICATION RATE (LB/AC)	SEEDING DATES	SEEDING DEPTHS	(10-10-10)	RATE
1	RYE	140	3/1-4/30 8/15-11/15	1-2 INCH	600 LB/AC (15 LB/1000 SF)	2 tons/ac (100 LB/
2	RYE PLUS FOXTAIL MILLET	150	3/1-4/30 5/1-8/14 8/15-11/15	1 INCH		1000 SF)

**EROSION & SEDIMENT** CONTROL NOTES & **DETAILS** 

RIDGEBROOK

936

MA

(410) ww.ka

APRIL 2012 CIJOB NO. 01-081795.70 APITAL PROJECT NO.: ERMIT ISSUE: ONSTRUCTION ISSUE:

SHEET NO.: 5 OF 5

SSIONAL 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. 20903, EXPIRATION DATE: JULY 18, 2013

CHIEF. BUREAU OF ENVIRONMENTAL SERVICES

DEPARTMENT OF PUBLIC WORKS, HOWARD COUNTY, MD