SHEET INDEX

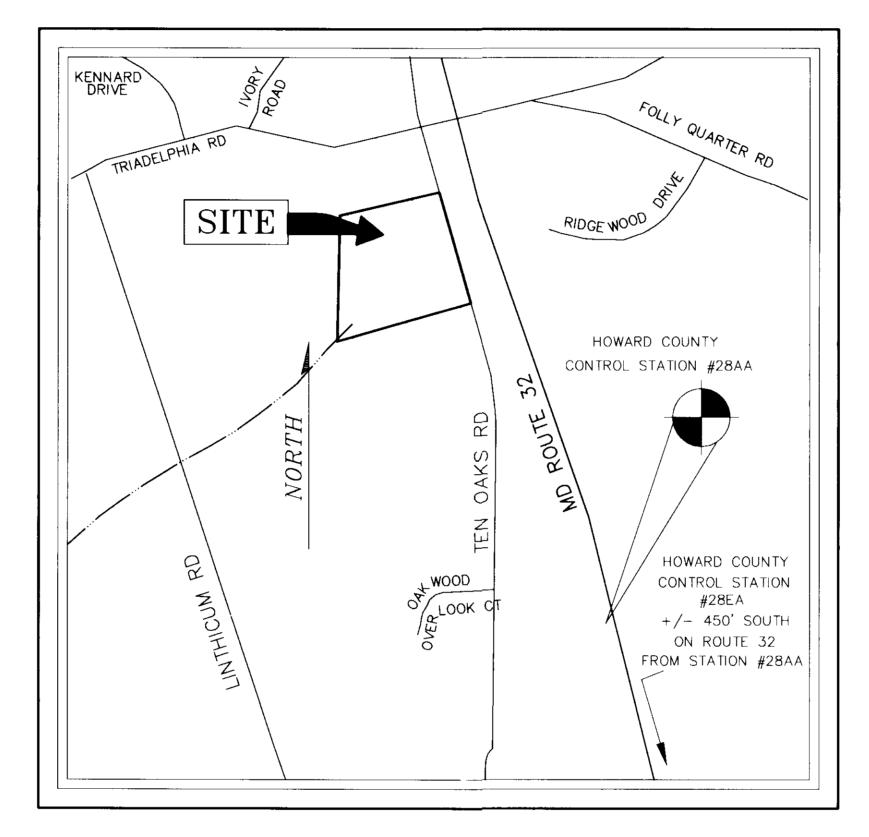
1	TITLE SHEET
2	SITE, STORMWATER MANAGEMENT PLAN
3	DAM AND SWALE PROFILES AND DETAILS
4	SPILLWAY PROFILES AND DETAILS
5	DETAIL SHEET
6	SEDIMENT CONTROL PLAN
7	STANDARD SEDIMENT CONTROL DETAILS
8	POND SPECIFICATIONS
9	EXISTING DRAINAGE AREA MAP
10	PROPOSED DRAINAGE AREA MAP
11	LANDSCAPE PLAN

APPROVED: DEPARTMENT OF PLANNING AND ZONING

CHIEF, DIVISION OF LAND DEVELOPMENT

3/21/97

SITE DEVELOPMENT PLAN STORM WATER MANAGEMENT FOR FYOCK PROPERTY 5th ELECTION DISTRICT HOWARD COUNY, MARYLAND



SITE DATA

TOTAL 1951 05 01 01 01 01 01 01 01 01 01 01 01 01 01			
TOTAL AREA OF SUBMISSION	33 ACRES		
EXISTING ZONING	RR-DEO		
PROPOSED USE	(N/A)		
AREA OF 100 YR FLOODPLAIN	0		
AREA OF 25% OR GREATER SLOPE	0		
NET AREA	33 ACRES		

VICINITY MAP

SCALE: 1" = 1000

NOTE: SEE DRAINAGE AREA MAPS (PAGE 9 & 10) FOR DETAILED WETLAND DELINEATION

SUBDIVISION NAME (N/A)			SECT./AREA (N/A)		PARCEL 201	
LIBER/FOLIO 2221/0618	BLOCK #	ZONE RR-DEO	TAX/ZONE MAP	ELECT. DI	CENSUS TRK 6051.01	
WATER CODE			SEWER CODE			
(N/A)			(N/A)			
-		ADDRES	S CHART			
LOT NUMBER			STREET ADDRESS			
PARCEL: 201			3950 TEN OAKS ROAD , GLENELG, MD			

GENERAL NOTES:

- 1. THIS PLAN SUBMITTED FOR REVIEW AND APPROVAL FOR THE CONSTRUCTION OF A STORMWATER MANAGEMENT POND. THIS POND WILL REPLACE THE EXISTING SWM FACILITIES ON PARCELS 59 AND 137 AND PROVIDE SWM FOR THE COMMERCIAL AREA SHOWN ON THE DRAINAGE AREA MAP.
- 2. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF HOWARD COUNTY.
- 3. THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS/CONSTRUCTION INSPECTION DIVISION AT (410) 313-1880 AT LEAST FIVE (5) DAYS PRIOR TO THE START OF WORK.
- 4. BOUNDARY AND TOPOGRAPHY SHOWN HEREON IS BASED ON SURVEYS CONDUCTED BY MILDENBERG, BOENDER AND ASSOCIATES ON JAN 1996 (WITH EXCEPTION OF TOPOGRAPHY FOR DRAINAGE AREA MAPS) TOPOGRAPHY FOR DRAINAGE AREA MAPS BASED ON HOWARD COUNTY'S 200' SCALE MAPS
- 5. HORIZONTAL AND VERTICAL DATUMS ARE BASED ON NAD '83 AS PROJECTED FROM HOWARD COUNTY CONTROL STATIONS NO. 28AA AND 28EA.

STA 28AA N 576548.4426 E 1318268.8276 EL.=567.62 STA 28EA N 572158.9453 E 1319400.6604 EL.=485.75

- 6. STORMWATER MANAGEMENT FACILITIES WILL BE PRIVATELY OWNED AND MAINTAINED.
- 7. A RETENTION POND WILL BE USED FOR STORMWATER MANAGEMENT QUALITY CONTROL.
- 8. THE CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITIES OR AGENCIES AT LEAST FIVE (5) DAYS PRIOR TO ANY EXCAVATION WORK: MISS UTILITY 1-800-257-7777 C&P TELEPHONE COMPANY 725-9976 HOWARD COUNTY BUREAU OF UTILITIES 313-4900 AT&T CABLE LOCATION DIVISION 393-3533 BALTIMORE GAS & ELECTRIC COMPANY 685-0123 531-5533 STATE HIGHWAY ADMINISTRATION HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS/ CONSTRUCTION INSPECTION DIVISION 313-1880
- 9. NO DISTURBANCE OF WETLAND OR FLOODPLAIN AREAS IS PROPOSED.
- 10. THIS PROJECT IS EXEMPT FROM FOREST CONSERVATION REQUIREMENTS AS PER SECTION 16.1202(b)(2)(i)(a) OF THE HOWARD COUNTY SUBDIVISION AND LAND DEVELOPMENT REGULATIONS
- 11. WAIVER PETITION NUMBER: 92-02 PARCEL NUMBER: 59 REQUEST: TO WAIVE SECTION 16.143(2) OF SUBDIVISION AND LAND DEVELOPMENT REGULATIONS

DESCRIPTION: TO INSTALL A 40'X60' PRE-ENGINEERED COMMERCIAL STORAGE BUILDING WITHOUT A SITE DEVELOPMENT PLAN SUBMISSION

ACTION: WAIVER GRANTED AUGUST 14, 1991.

12. WAIVER PETITION NUMBER: 95-95 PARCEL NUMBER: 137 REQUEST: TO WAIVE SECTION 16.155(A)(1) OF SUBDIVISION AND LAND DEVELOPMENT REGULATIONS

DESCRIPTION: TO PERMIT NON-RESIDENTIAL DEVELOPMENT (50'X80' VEHICLE REPAIR BUILDING) WITHOUT AN APPROVED SITE DEVELOPMENT PLAN SUBMISSION

ACTION: WAIVER GRANTED JUNE 21, 1995

13. THIS IS A REGIONAL SWM FACILITY FOR THE EXISTING COMMERCIAL/MANUFACTURING DEVELOPMENT AND WILL BE UTILIZED FOR ANY FUTURE RESIDENTIAL DEVELOPMENT WITH MODIFICATIONS TO THE POND.



OWNER/DEVELOPER

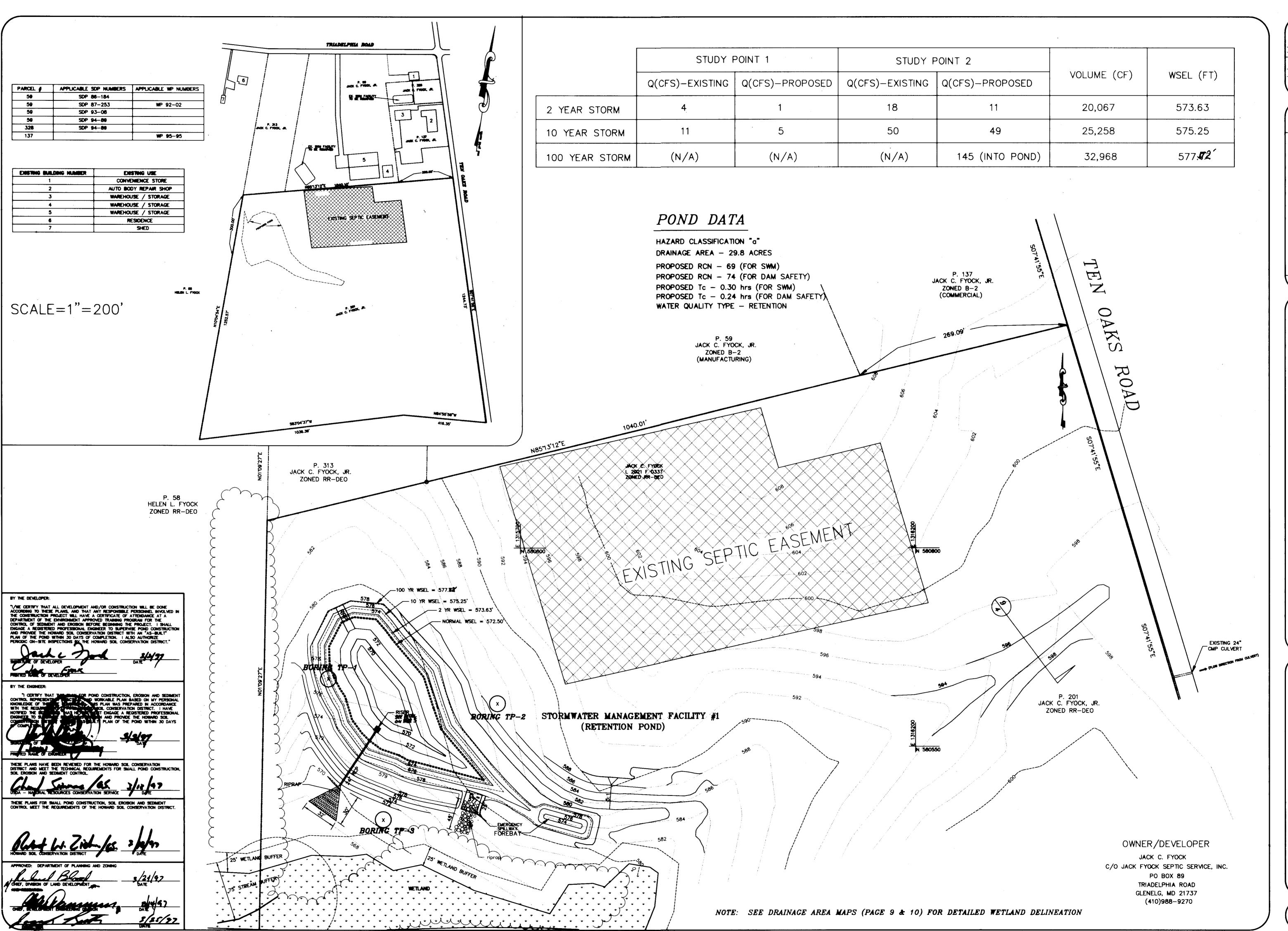
JACK C. FYOCK C/O JACK FYOCK SEPTIC SERVICE, INC. PO BOX 89 TRIDELPHIA ROAD GLENELG, MD 21737

(410)988-9270

Soc.

MILDENBERC BOENDER &

1 OF 11

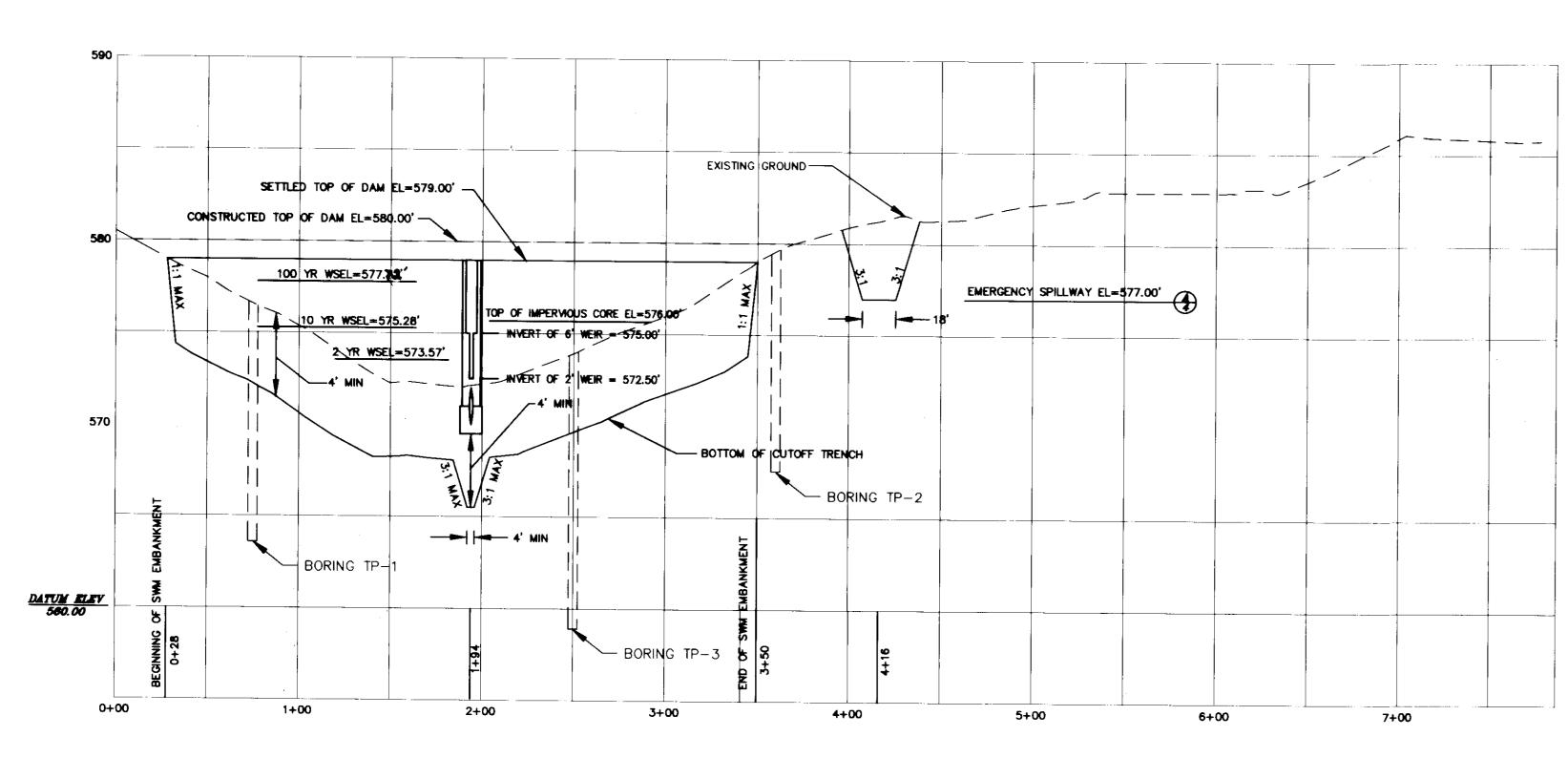


SDP - 76-124

2 of 11

MANAGEMENT

STORMWATER



PROFILE---CENTERLINE OF DAM

SCALE: 1"=50' HOR SCALE: 1"=5' VER

THESE PLANS FOR SMALL PROMERT

THE CONTROL OF SEDMENT AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONTROL OF SEDMENT AND EXAMPLE APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDMENT AND ERSONN BEFORE SEGMENT THE PROJECT. I SHALL DESPARATION OF SEDMENT AND ERSONN BEFORE SEGMENT THE PROJECT. I SHALL DESPARE A REGISTERED PROFESSIONAL ENGINEER TO SUPERVISE PORD CONSTRUCTION AND PROVINCE THE HOWARD SOIL CONSERVATION DISTRICT WITH A "AS-BUILT PLAN OF THE PORDO WITHIN 30 DAYS OF COMPLETION. I ALSO AUTHORIZE PERSONCE ON-SITE RESPECTIONS BY THE HOWARD SOIL CONSERVATION DISTRICT."

BY THE ENGINEER:

TO EXPERIMENT THE THAT AND EXPENSIONAL PLAN BASED ON MY PERSONNAL WITH THE SECONDARY OF DEVELOPER.

BY THE ENGINEER:

THESE PLANS FOR DEVELOPER.

BY THE ENGINEER OF DEVELOPER.

BY THE BY THE HOWARD SOIL CONSERVATION DISTRICT. I HAVE NOT THE HOWARD SOIL CONSERVATION DISTRICT.

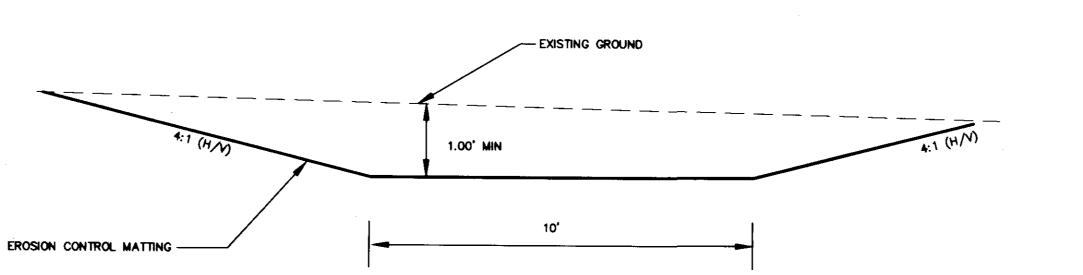
BY THE SECOND AND SEDMENT OF THE HOWARD SOIL CONSERVATION DISTRICT.

BY THE PRODUCT OF THE PRODUCT OF THE HOWARD SOIL CONSERVATION DISTRICT.

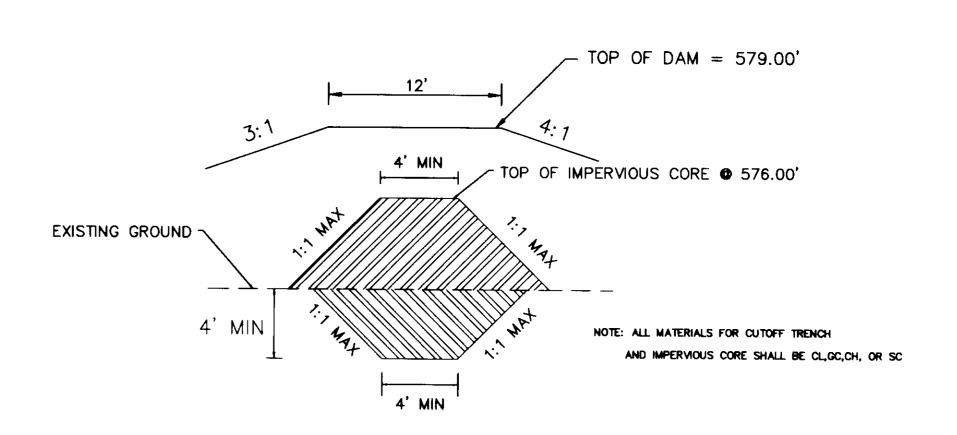
BY THE SECOND AND SEDMENT OF THE HOWARD SOIL CONSERVATION DISTRICT.

BY THE SECOND AND SEDMENT OF THE HOWARD SOIL CONSERVATION DISTRICT.

BY THE SECOND AND SEDMENT OF THE HOWARD SOIL CON



SECTION---PERMANENT SWALE



IMPERVIOUS CORE AND CUTOFF TRENCH
NOT TO SCALE

OWNER/DEVELOPER

JACK C. FYOCK

C/O JACK FYOCK SEPTIC SERVICE, INC.

PO BOX 89

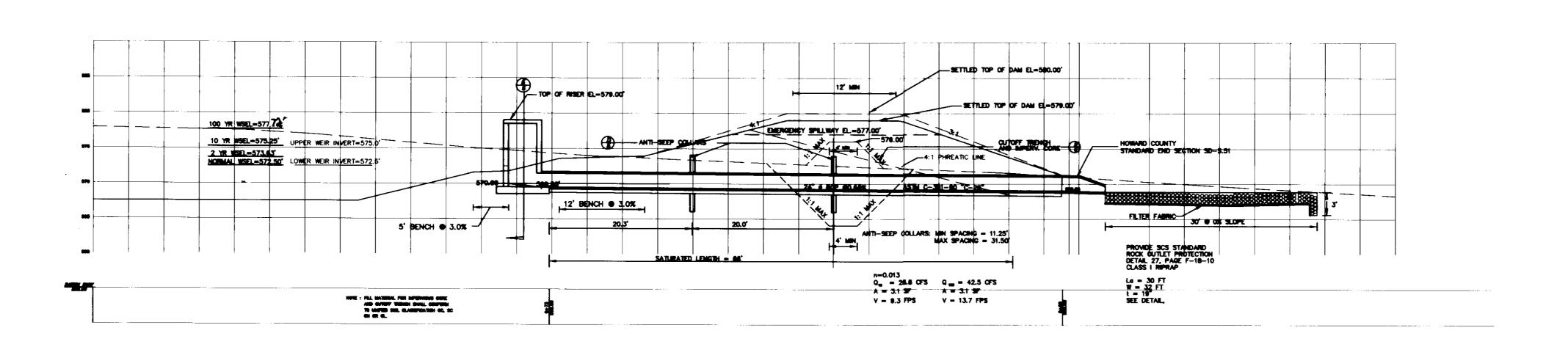
TRIADELPHIA ROAD

GLENELG, MD 21737

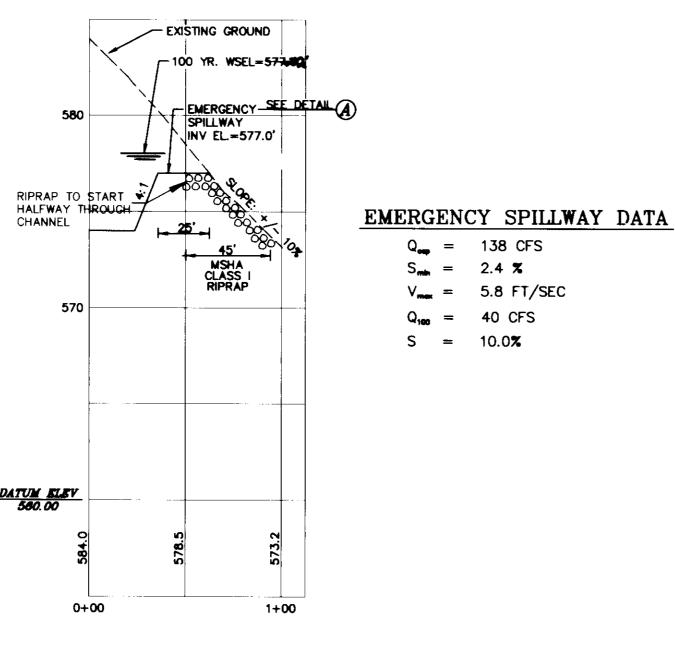
(410)988-9270

3 of 11

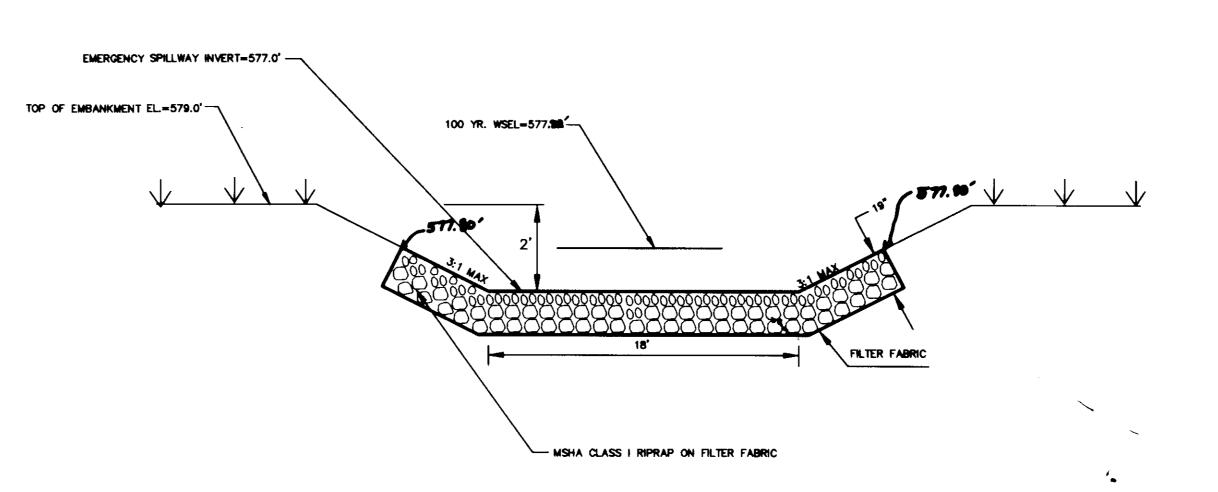
DP-96-124



PROFILE---PRINCIPAL SPILLWAY SCALE: 1"=10'



PROFILE---EMERGENCY SPILLWAY SCALE: 1"=50' HOR 1"=5' VER



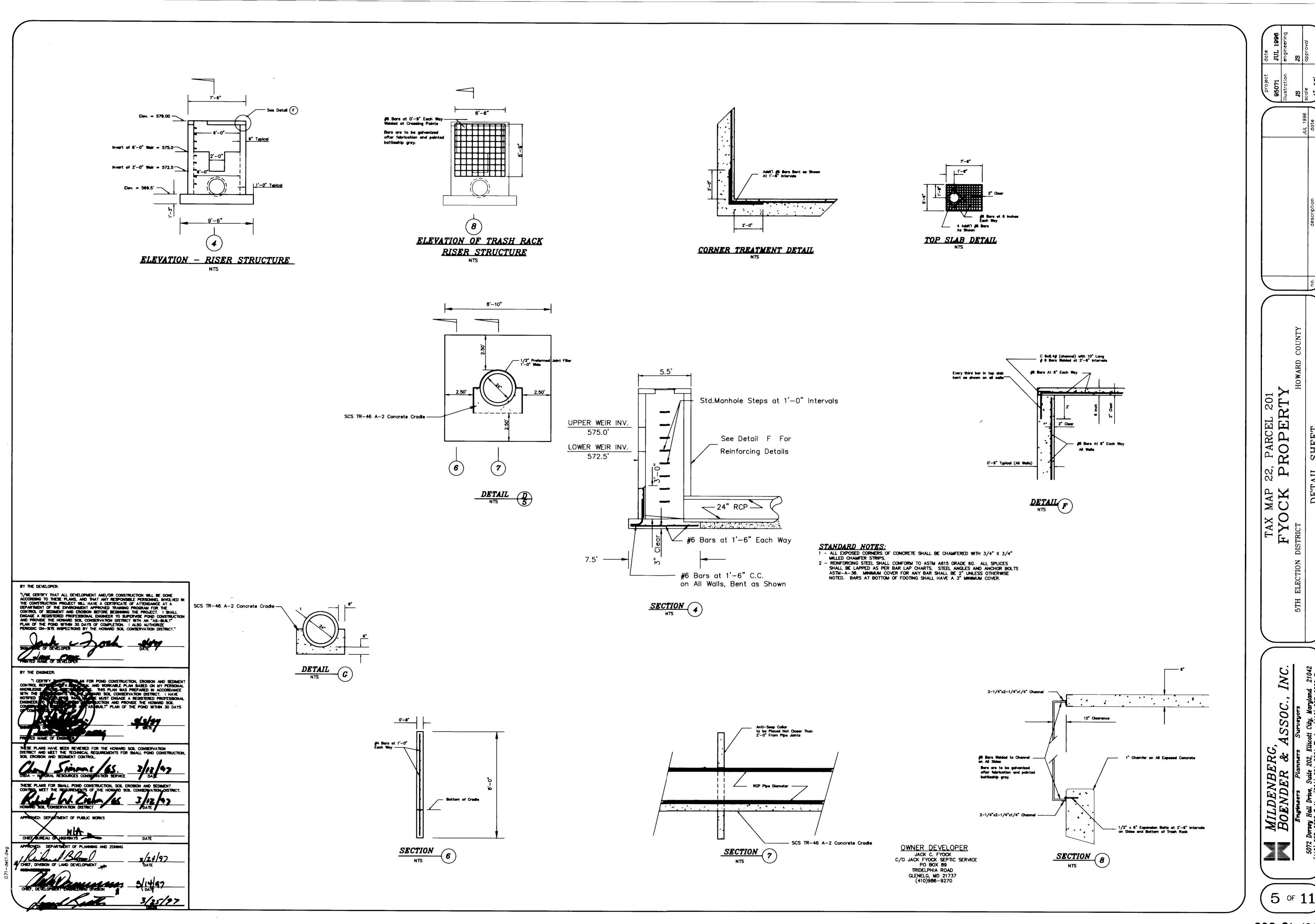
EMERGENCY SPILLWAY DETAIL NOT TO SCALE

OWNER/DEVELOPER

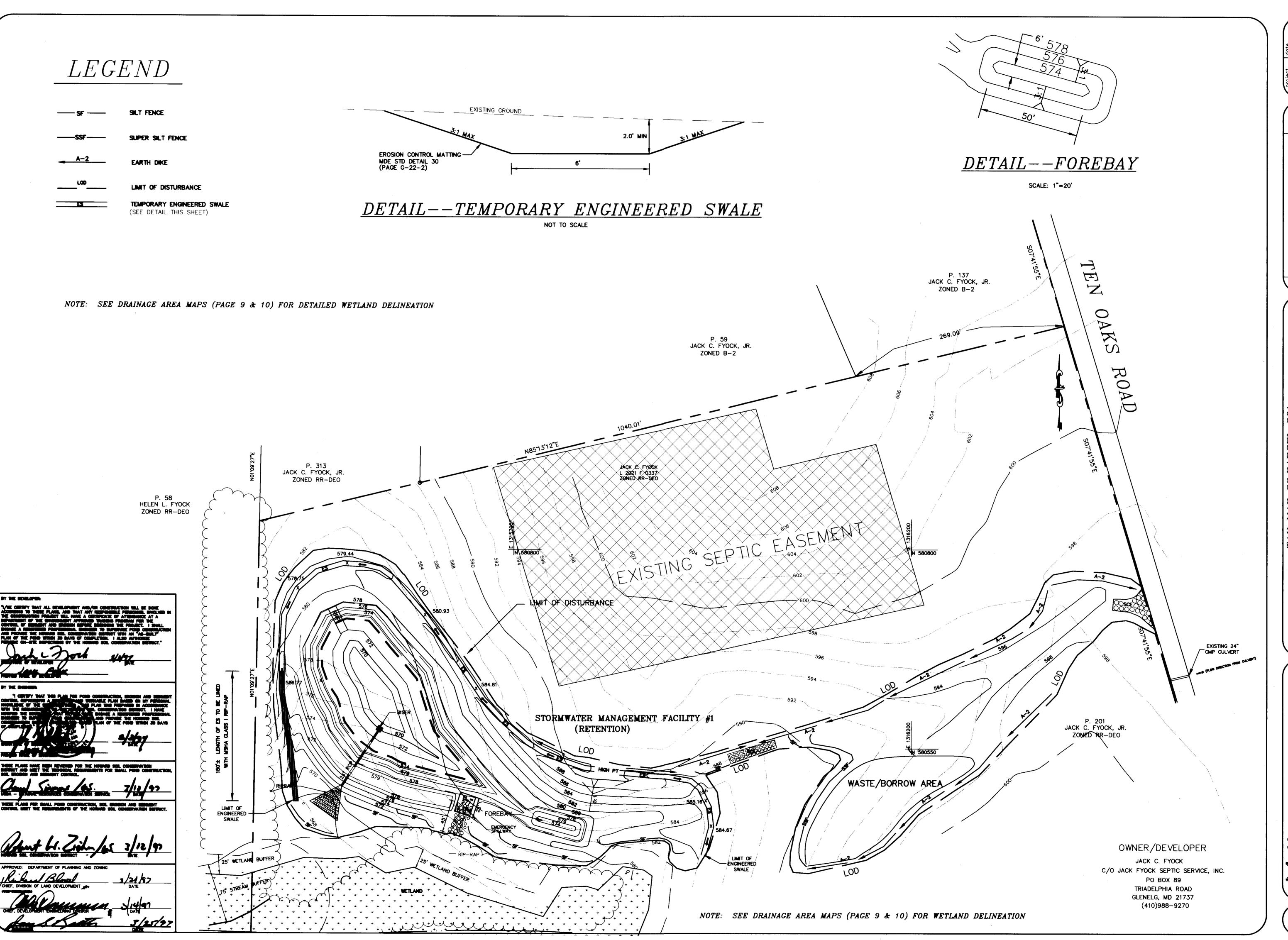
JACK C. FYOCK C/O JACK FYOCK SEPTIC SERVICE, INC. PO BOX 89 TRIADELPHIA ROAD GLENELG, MD 21737 (410)988-9270

SDP-96-124

BY THE DEVELOPER: "I/ME CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THESE PLANS, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I SHALL ENGAGE A REGISTERED PROFESSIONAL ENGINEER TO SUPERVISE POND CONSTRUCTION AND PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN "AS-BUILT" PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION. I ALSO AUTHORIZE PERIODIC ON—SITE INSPECTIONS BY THE HOWARD SOIL CONSERVATION DISTRICT." THESE PLANS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.



SDP-96-124



NTY

no. description

no. description

revisions

project date

95071
JUL 1998
illustration engineering
is JS
scale

1"=50' jbm

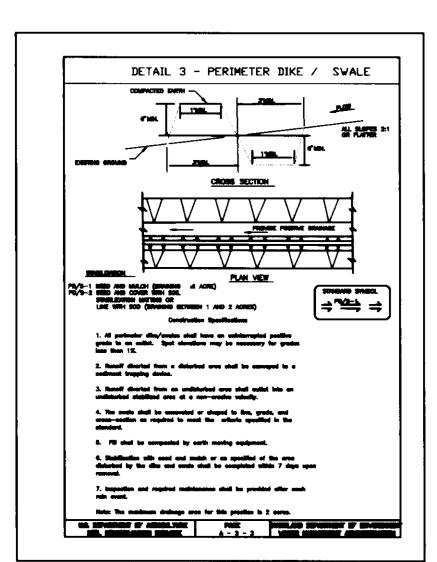
FYOCK PROPERTY
DISTRICT
SEDIMENT CONTROL PLAN

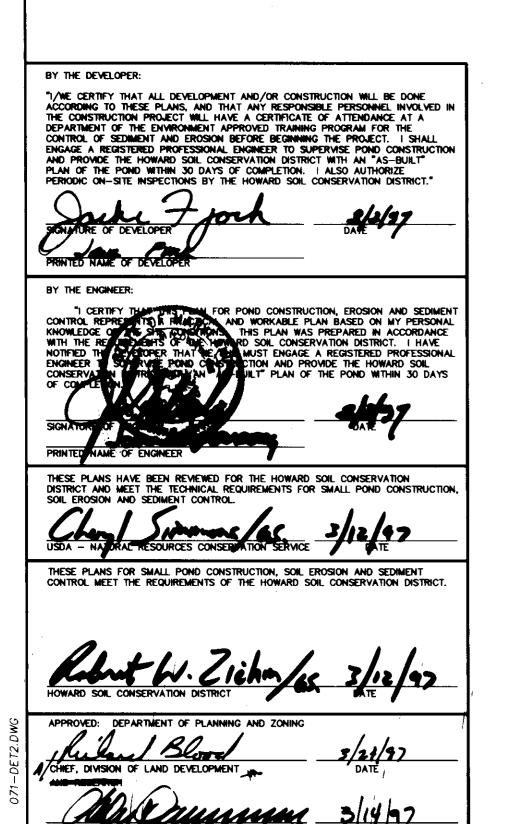
E.R.C.,
R. A.S.SOC., INC.
lanners Surveyors
te 202, Ellicott City, Naryland 21042

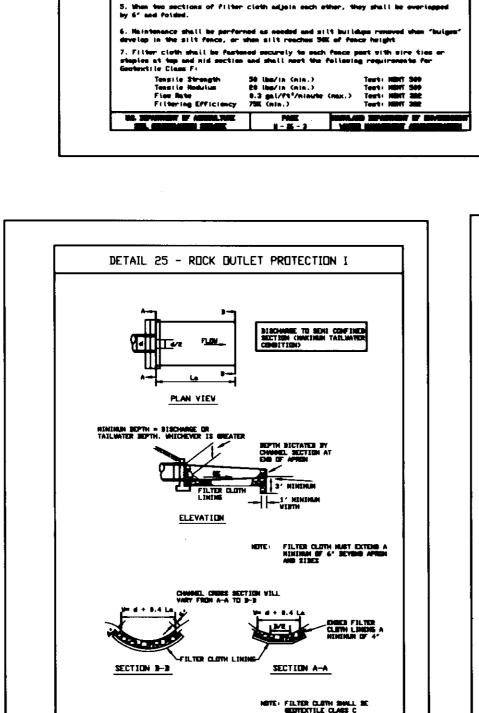
MILDENBERG,
BOENDER & A.
Engineers Planners S

6 of 11

SDP-96-12







SEQUENCE OF CONSTRUCTION

INSTALL STABILIZED CONSTRUCTION ENTRANCES (2 DAYS)

CONSTRUCT ENGINEERED SWALE AS SHOWN ON PLAN (7 DAYS) CONSTRUCT EARTH DIKES AS SHOWN ON PLAN (2 DAYS)

POND TO GRADES INDICATED AND STABILIZE THE SITE(30 DAYS).

CONSTRUCTED UNTIL TEMPORARY ENGINEERED SWALE IS REMOVED

DETAIL 33 - SUPER SILT FENCE

Fencing shall be 42" in height and constructed in accordance with the latest Noryland State Highway Betails for Chain Link Foncing. The specification for a 6" fonce shall be used, substituting 42" fobric and 6" length posts.

2. Chain link fence shall be fastened securely to the fence parts with wire ties. The lower tension wire, brace and truss rods, drive anchors and past caps are not required except on the ends of the fence.

3. Filter cloth shall be fastened securely to the chain link fence with ties spaced every 24' at the top and mid section.

4. Filter cloth shall be embedded a minimum of \$7 into the ground.

UPON APPROVAL FROM SEDIMANT CONTROL INSPECTOR, CONSTRUCT STORMWATER MANAGEMENT

UPON APPROVAL FROM THE SEDIMENT CONTROL INSPECTOR, PERMANENT SWALE IS NOT TO BE

WHEN ALL CONTRIBUTING AREAS HAVE BEEN STABILIZED AND UPON APPROVAL FROM SEDIMENT

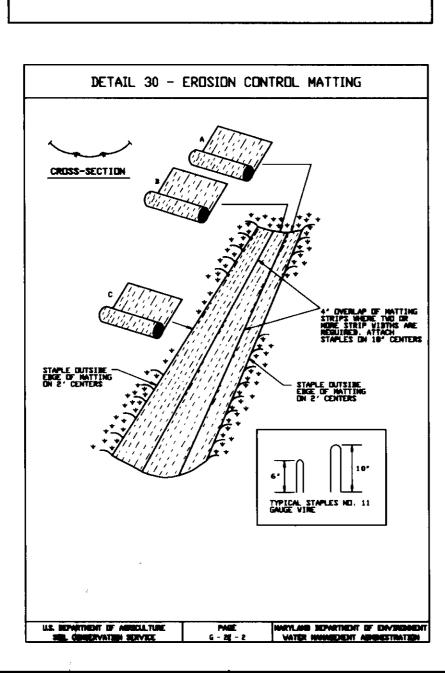
CONTROL INSPECTOR, REMOVE SEDIMENT CONTROL DEVICES AND STABILIZE REMAINING AREAS

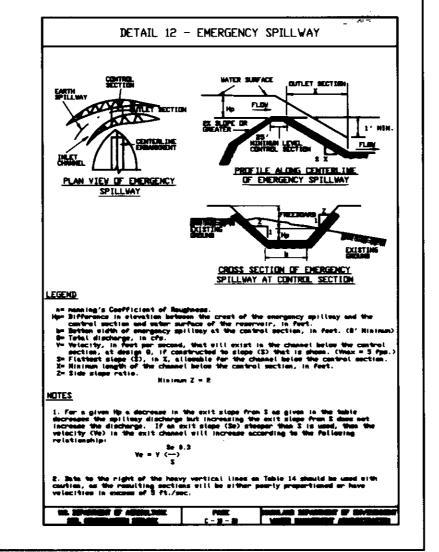
OBTAIN GRADING PERMIT. (1 DAY)

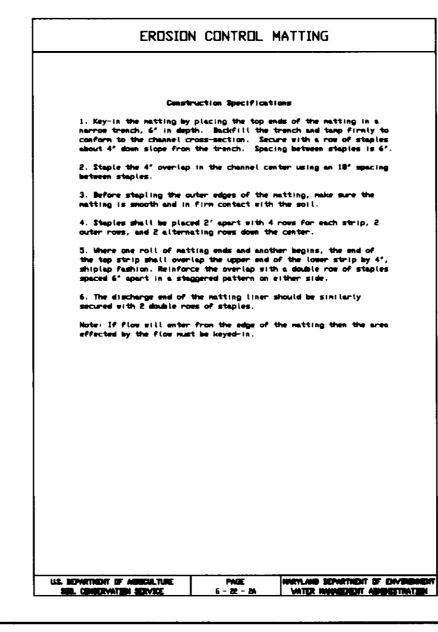
CONSTRUCT SILT FENCES AS SHOWN.

HETE: FENCE POST SPACING SHALL HET EXCEED 10' CENTER TO CENTER

HINIMUM INTO GROUND







HOWARD SOIL CONSERVATION DISTRICT PERMANENT SEEDING NOTES

APPLY TO GRADED OR CLEARED AREAS NOT SUBJECT TO IMMEDIATE FURTHER DISTURBANCE WHERE A PERMANENT LONG-LIVED VEGETATIVE COVER IS NEEDED. SEEDING PREPARATION: LOOSEN UPPER THREE INCHES OF SOIL BY RAIGING , DISIGING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING, IF NOT PREVIOUSLY LOOSENED.

SOIL AMENDMENTS: IN LIEU OF SOIL TEST RECOMMENDATIONS, USE ONE OF THE FOLLOWING SCHEDULES:

1) PREFERRED — APPLY 2 TONS PER ACRES DOLONITIC LIMESTONE (82 LIBS/1000 SQ.FT.)

AND 800 LIBS. PER ACRE 10—10—10 FERTILIZER (14 LIBS/1000 SQ.FT.) BEFORE SEEDING.

HARROW OR DISK INTO UPPER THREE BIONES OF SOIL. AT TIME OF SEEDING, APPLY

400 LIBS. PER ACRE 30—0—0 UPEAFORM FERTILIZER (9 LIBS./1000 SQ.FT.).

2) ACCEPTABLE — APPLY 2 TONS PER ACRE DOLONITIC LIMESTONE (92 LIBS./1000 SQ.FT.) BEFORE SEEDING. HARROW OR DISK INTO UPPER THREE BICHES OF SOIL.

SEEDING — FOR THE PENIODS MARCH 1 THRU APRIL 30, AND AUGUST 1 THRU OCTOBER 15, SEED WITH 80 LBS. PER ACRE 1.4 LBS/1000 SQ.FT.) OF ICENTUCKY 31 TALL FESCUE. FOR THE PENIOD MAY 1 THRU JULY 31, SEED WITH 80 LBS. ICENTUCKY 31 TALL FESCUE PER ACRE AND 2 LOBS. PER ACRE (.05 LBS./1000 SQ.FT.) OF WEEPING LOVEGRASS. DURING THE PENIOD OF OCTOBER 16 THRU FEBRUARY 28, PROTECT SITE BY: OPTION (1) — 2 TONS PER ACRE OF WELL ANCHORED STRAW MALCH AND SEED AS 900N AS POBBBLE IN THE SPRING. OPTION (2) — USE SOD. OPTION (3) — SEED WITH 80 LBS./ACRE IGENTUCKY 31 TALL FESCUE AND MULCH WITH 2 TONE/ACRE WELL ANCHORED STRAW. MULCHING — APPLY 1—1/2 TO 2 TONS PER ACRE (70 TO 90 LBS./1000 SQ.FT) OF UNROTTED SMALL GRAIN STRAW BMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 218 GALLONS PER ACRE (5 GAL/1000 SQ.FT.) OF EMULSIFIED ASPHALT ON FLAT AREAS. ON SLOPES 8 FEET OR HIGHER, USE 348 GALLONS PER ACRE (8 GAL/1000 SQ.FT.) FOR ANCHORING.

MAINTENANCE - INSPECT ALL SEEDING AREAS AND MAKE NEEDED REPAIRS, REPLACEMENTS AND RESEEDINGS.

TEMPORARY SEEDING NOTES

APPLY TO GRADED OR CLEARED AREAS LIKELY TO BE REDISTURBED WHERE A SHORT-TERM VEGETATIVE COVER IS NEEDED. SEEDBED PREPARATION: LOOSEN UPPER THREE INCHES OF SOIL BY RAIGING, DISKING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING, FOR NOT PREVIOUSLY LOOSENED.

SOIL AMENDMENTS: APPLY 600 LBS. PER ACRE 10-10-10 FERTILIZER (14 LBS./1000 SQ.FT.) SEEDING: FOR PENIODS MARCH 1 THRU APPIL 30 AND FROM AUGUST 15 THRU OCTOBER 15, SEED WITH 2-1/2 BUSHEL PER ACRE OF ANNUAL RYE (3.2 LBS./1000 SQ.FT.) FOR THE PENIOD MAY 1 THRU AUGUST 14, SEED WITH 3 LBS. PER ACRE OF WEEPING LOVEGRASS (.07 LBS./1000 SQ.FT.). FOR THE PENIOD NOVEMBER 16 THRU NOVEMBER 28, PROTECT SITE BY APPLYING 2 TONS PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING, OR USE 500.

MULCHING: APPLY 1-1/2 TO 2 TONS PER ACRE (70 TO 90 LIBS./1000 SQ.FT.) OF UNROTTED WEED FREE SMALL GRAIN STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 218 GAL PER ACRE (5 GAL/1000 SQ.FT.) OF EMULSIFIED ASPHALT ON FLAT AREAS. ON SLOPES 8 FEET OR HIGHER, USE 348 GAL PER ACRE (8 GAL/1000 SQ.FT.) FOR ANCHORING.

REFER TO THE 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR ADDITIONAL RATES AND METHODS NOT COVERED.

HOWARD SOIL CONSERVATION DISTRICT STANDARD SEDIMENT CONTROL NOTES

- A MINIMUM OF 48 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY DEPARTMENT OF INSPECTIONS, LICENSES AND PERMITS, SEDIMENT CONTROL DIVISION PRIOR TO THE START OF NAY CONSTRUCTION, (313-1865).
- ALL VEGETATIVE AND STRUCTURAL PRACTICES ARE TO BE INSTALLED ACCORDING TO THE PROVISIONS OF THIS PLAN AND ARE TO BE IN CONFORMANCE WITH THE MOST CURRENT "MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL", AND REVISIONS THERETO.
-) FOLLOWING BITTIAL SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN: A) 7 CALENDAR DAYS FOR ALL PERMETER SEDIMENT CONTROL STRUCTURES, DINES, PERMETER SLOPES AND ALL SLOPES GREATER THAN 3:1, B) 14 DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.
- 4) ALL SEDIMENT TRAPS/BASINS SHOWN MUST BE FENCED AND WARNING SIGNS POSTED AROUND THEIR PERMIETER IN ACCORDANCE WITH VOIL. 1, CHAPTER 12, OF THE HOMAND COUNTY DESIGN MANUAL, STORM DRAMAGE.
- 5) ALL DISTURBED AREAS MUST BE STABILIZED WITHIN THE TIME PERIOD SPECIFIED ABOVE IN ACCORDANCE WITH THE 1881 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EXCISION AND SEDIMENT CONTROL FOR PERMANENT SEEDING (SEC.51), SOD (SEC.54), TEMPORARY SEEDING (SEC. 50) AND MULCHING (SEC.52). TEMPORARY STABILIZATION WITH MULCH ALDRE CAN ONLY BE DONE WHEN RECOMMENDED SEEDING DATES DO NOT ALLOW FOR PROPER GERMINATION AND ESTABLISHMENT OF GRASSES.
- 6) ALL SEDMENT 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 SEDMENT CONTROL INSPECTOR.
- 7) SITE ANALYSIS:
 TOTAL ANEA OF SITE:
 ANEA DISTURBED:
 ANEA TO BE ROOFED OR PAVED
 TOTAL CUT
 TOTAL CUT
 TOTAL FILL
 TOTAL WASTE/BORNOW AREA LOCATION

 ACRES
 CU. YOS.
 TOTAL WASTE/BORNOW AREA LOCATION

 TOTAL WASTE/BORNOW AREA LOCATION
- ADDITIONAL SEDIMENT CONTROL MUST BE PROVIDED, IF DEEMED NECESSARY BY THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
- 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 PERMIETER ENGINE AND SEDIMENT CONTROLS, BUT BEFORE PROCEEDING WITH ANY OTHER EARTH DISTURBANCE OR GRADING. OTHER BULDING 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 CAN BE BACK FILLED AND STABILIZED WITHIN ONE WORKING DAY, WHICHEVER IS SHORTER.

AS-BUILT CERTIFICATION

I HEREBY CERTIFY THAT THE FACILITY SHOWN ON THIS PLAN WAS CONSTRUCTED AS SHOWN ON THE "AS-BUILL" PLANS AND MEETS THE APPROVED PLANS AND SPECIFICATIONS. _____ PE NO. _____

CERTIFY MEANS TO STATE OR DECLARE A PROFESSIONAL OPINION BLASED UPON ONSITE INSPECTIONS AND MATERIAL TESTS WHICH ARE CONDUCTED DURING CONSTRUCTION. THE ONSITE INSPECTIONS AND MATERIAL TESTS ARE THOSE INSPECTIONS AND TESTS DEEMED SUFFICIENT AND APPROPRIATE BY COMMONLY ACCEPTED ENGINEERING STANDARDS. CERTIFY DOES NOT MEAN OR MPLY A GUARANTEE BY THE ENGINEER NOR DOES AN ENGINEER'S CERTIFICATION RELIEVE ANY OTHER PARTY FROM MEETING REQUIREMENTS IMPOSED BY CONTRACT, EMPLOYMENT, OR OTHER MEANS, INCLUDING MEETING COMMONLY ACCEPTED INDUSTRY PRACTICES. OPERATION. MAINTENANCE AND INSPECTION

INSPECTION OF THE POND(S) SHOWN HEREON SHALL BE PERFORMED AT LEAST ANNUALLY, IN ACCORDANCE WITH THE CHECKLIST AND REQUIREMENTS CONTAINED WITH USBA, 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 CONTRILLED OPERATION, SURVELLANCE, INSPECTION, AND MAINTENANCE THEREOF. THE POND OWNER(S) SHALL PROMPTLY NOTIFY THE SOIL CONSERVATION DISTRICT OF ANY UNUSUAL DISSERVATIONS THAT MAY BE INDICATIONS OF DISTRIESS SUCH AS EXCESSIVE SEEPAGE, TURBED SEEPAGE, SLIDING OR SLUMPING.

MAINTENANCE REQUIREMENTS

- 1. REMOVAL OF SILT WHEN ACCUMULATION EXCEEDS SIX (6) INCHES IN FOREBAY (IF APPLICABLE) REMOVAL OF ACCUMULATED PAPER, TRASH AND DEBRIS AS NECESSARY 3. VEGETATION GROWING ON THE EMBANGMENT TOP AND FACES OF THE FOREBAY OF BASIN IS NOT ALLOWED TO EXCEED 18 INCHES IN HEIGHT AT ANY TIME
- . ANNUAL INSPECTION AND REPAIR OF THE FACILITY

STANDARD AND SPECIFICATIONS FOR TOPSOIL

<u>Definition</u>
Placement of topsoil over a prepared subsoil prior to establishment of permanent vegetation.

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

Conditions Where Practice Applies

This practice is limited to areas have 2:1 or flatter slopes

- a. The texture of the exposed subsoil/parent material is not adequate to produce vegetative growth.
- b. 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 plant growth.
- The soil is so acidic that treatment with limestone is not feasible.
- II. For the purpose of these Standards and Specifications, areas having slopes 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

- 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.
- II. Topsoil Specifications Soil to be used as topsoil must meet the following:
 - i. Topsoil shall be a loam, sandy loam, clay loam, sitt loam, sandy clay loam, loamy sand. Other soils may be used if recommended by an agronomist or soil scientist
 - and approved by the appropriate approval authority Regardless, topsoil shall not be mixture of contrasting textured subsoils and shall contain less than 5% by volume of cinders, stones, slag, coarse fragments, gravel, sticks, roots, trash, or other materials larger that 1 1/2" in diameter.
 - ii. Topsoil must be of plants or plant parts such as bermuda grass, quackgrass, Johnsongrass, nutsedge, poison ivy, thistle, or others as specified.
 - iii. 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 or topsoil. limestone shall be distributed uniformly over designated areas and worked into the soil conjunction with tillage operations as described in the following procedures.
- II. For sites having disturbed areas under 5 acres:
 - . Place topsoil (if required) and add soil amendments as specified in 20.0 Vegetative Stabilization — Section | — Vegetative Stabilization Methods and **Materials**
- III. For sites having disturbed areas over 5 acres:
 - On soil meeting Topsoil specifications, obtain test results dictating fertilizer and lime amendments required to bring the soil into compliance with the
 - 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 soil shall be not less than 1.5% by weight.
 - Topsoil having soluble salt content greater than 500 parts per million shall not be used.
 - 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 has elapsed (14 days min.) to permit dissipation of phyto-toxic materials.

- Note: Topsoil substitutes or amendments, as recommended by a qualified agronomist or soil
- 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 - Vegetative

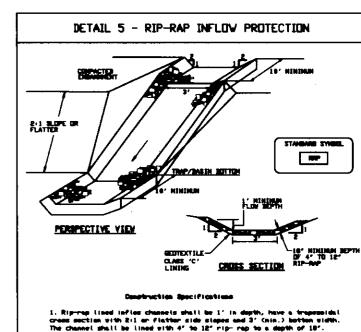
Stabilization Methods and Materials.

V. Topsoil Application

When topsoiling, maintain needed erosion and sediment control practices such as diversions, grade stabilization structures, earth dikes, slope silt fence and sediment traps and basins.

scientist and approved by the appropriate

- Grades on the areas to be topsoiled, which have been previously established, shall be maintained, albeit 4'' - 8'' in elevation.
- 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 minimum of soil preparation and tillage. Any irregularities in the surface resulting from topsoiling or other operations shall be corrected in order to prevent the formation of depressions or water pockets.
- 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 may otherwise be detrimental to proper grading and seeded preparation.
- VI. Alternative for Permanent Seeding Instead of applying the full amounts or lime and commercial fertilizer, comported sludge and amendments may be applied as specified below:
 - i. Comported Sludge Material for use as a soil conditioner for sites having disturbed areas over 5 acres shall be tested to prescribe amendments and for sites having disturbed areas under 5 acres shall conform to the following requirements:
 - a. Comported sludge shall be supplied by, or originate from, a person or persons that are permitted (at the time of acquisition of the compost) by the Maryland Department of the Environment under COMAR 26.04.06.
 - b. Comported sludge shall contain at least 1 percent nitrogen, 1.5 percent phosphorous, and 0.2 percent potassium and have a pH of 7.0 to 8.0. If compost does not net these requirements, the appropriate constituents must be added to meet the requirements prior
 - c. Composted sludge shall be applied at a rate of 1 ton/1,000 square feet
 - Comported sludge shall be amended with a potassium fertilizer applied at the rate of 4lb/1,000 square



1. Rip-rap lined inflor channels shall be 1' in depth, have a trapezoidal cross section with 2:1 or flatter side stapes and 3' (min.) bottom width. The channel shall be lined with 4' to 12' rip- rap to a depth of 18'. 2. Filter cloth shall be installed under all rip-rap. Filter cloth shall be Georgestie Class C. 3. Entrance and exit sections shall be installed as shown on the defail.

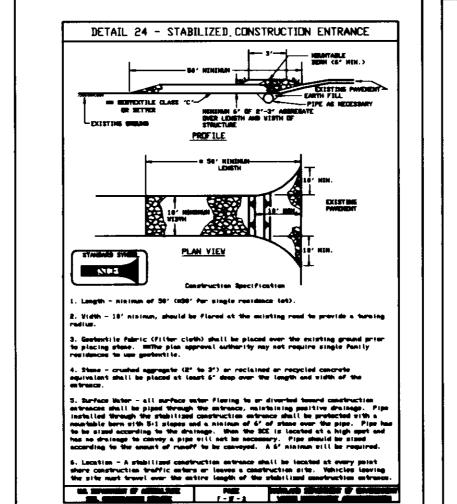
Rip-rap used for the lining may be recycled for personner outlet protection if the basis is to be converted to a stormator management facility.

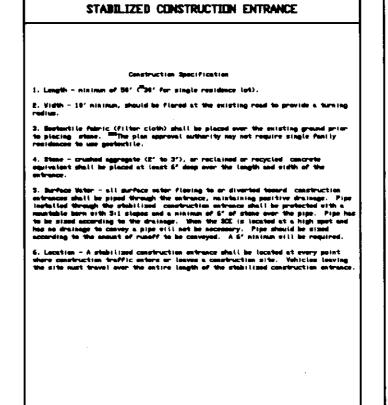
5. Gabien Inflow Protection may be used in lieu of Rip-rap Inflow Protection. 6. Rip-rep should bland into existing ground.

7. Rip-rap Inflow Protection shall be used where the stape is between 4:1 and 18:1, for stapes flatter than 18:1 use Earth Bile or Temperary Buale lining criteria.

2. SENATURAL EF ARRESTATURE PARE MANAGEMENT OF REVENUES STATES.

SEL SENATURAL SELECTION OF SELE





UL SHIER FAREAUX NEE WHAT SHIRLE FOR SHIELD

OWNER/DEVELOPER

JACK C. FYOCK C/O JACK FYOCK SEPTIC SERVICE, INC PO BOX 89 TRIDELPHIA ROAD GLENELG, MD 21737 (410)988-9270

7 OF 11

SDP-96-124

D COUNTY
DETAILS ARD NOTES N K ROL ~ CONT 125 P Q AP X SEDIMENT ر≥ <u>ت</u>

> INC. \dot{C} S0マ

STANDARD

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

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

AREAS TO BE COVERED BY THE RESERVOIR WILL BE CLEARED OF ALL TREES, BRUSH, LOGS, RUBBISH AND OTHER OBJECTIONABLE MATERIAL UNLESS OTHERWISE DESIGNATED TO THE PLANS. TREES, BRUSH AND STUMPS SHALL BE CUT APPROXIMATELY LEVEL WITH THE GROUND SURFACE. FOR DRY STORMWATER MANAGEMENT PONDS, A MINIMUM OF A 50 FOOT RADIUS AROUND THE INLET 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 QUALITY 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. CONSIDERATION MAY BE GIVEN TO THE USE OF OTHER MATERIALS IN THE EMBANKMENT IF DESIGN AND CONSTRUCTION ARE SUPERVISED BY A GEOTECHNICAL

PLACEMENT- AREAS ON WHICH FILL IS TO BE 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.

COMPACTION— THE MOVEMENT OF AND SPREADING EQUIPMENT OVER THE FILL SHALL BE CONTROLLED SO THAT THE ENTIRE SURFACE OF EACH LIFT SHALL BE TRAVERSE BY NOT LESS THAN ONE TREAD TRACK OF THE EQUIPMENT OR COMPACTION SHALL BE ACHIEVED BY A MINIMUM OF FOUR COMPLETE PASSES OF A SHEEPSFOOT, RUBBER TIRED OR VIBRATORY ROLLER. FILL MATERIAL SHALL CONTAIN SUFFICIENT MOISTURE SUCH THAT THE REQUIRED DEGREE OF COMPACTION WILL BE OBTAINED WITH THE EQUIPMENT USED. THE FILL MATERIAL SHALL CONTAIN SUFFICIENT MOISTURE SO THAT IF FORMED INTO A BALL IT WILL NOT CRUMBLE YET NOT BE SO WET THAT WATER CAN BE SQUEEZED OUT.

WHERE A MINIMUM REQUIRED DENSITY IS SPECIFIED, IT SHALL NOT BE LESS 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

CUT OFF TRENCH- THE CUFF OFF 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 AS SHOWN ON THE PLANS. THE SIDE SLOPES OF THE TRENCH SHALL BE 1 TO 1 OR FLATTER. THE BACKFILL SHALL BE COMPACTED WITH CONSTRUCTION EQUIPMENT, ROLLERS, OR HAND TAMPERS TO ASSURE MAXIMUM DENSITY AND MINIMUM PERMEABILITY.

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 MATERIAL 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 OPERATE CLOSER THAN FOUR FEET, MEASURED HORIZONTALLY, TO ANY PART OF A STRUCTURE UNDER NO CIRCUMSTANCES SHALL EQUIPMENT BE DRIVEN OVER ANY PART OF A CONCRETE FILL OF 24" OR GREATER OVER THE STRUCTURE OR PIPE.

PIPE CONDUITS

CORRUGATED METAL PIPE- ALL OF THE FOLLOWING CRITERIA SHALL APPLY FOR CORRUGATED METAL PIPE: 1. MATERIALS- (STEEL PIPE)- THIS PIPE AND ITS APPURTENANCE SHALL BE GALVANIZED AND FULLY BITUMINOUS COATED AND SHALL CONFORM TO THE REQUIREMENTS OF AASHTO SPECIFICATION M-190 TYPE A WITH WATERTIGHT COUPLING BANDS. ANY BITUMINOUS COATING DAMAGED OR OTHERWISE REMOVED SHALL BE REPLACED WITH COLD APPLIED BITUMINOUS COATING COMPOUND. STEEL PIPES WITH POLYMERIC COATINGS SHALL HAVE A MINIMUM COATING THICKNESS OF 0.01 INCH (10 MIL) ON BOTH SIDES OF THE PIPE. THE FOLLOWING COATINGS OR AN APPROVED EQUAL MAY BE USED: NEXON, PLASTI-COTE, BLAC-KLAD, AND BETH-CU-LOY. COATED CORRUGATED STEEL PIPE SHALL MEET THE REQUIREMENTS OF AASHTO M-245 AND M-246.

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. ANY ALUMINUM COATING DAMAGED OF OTHERWISE REMOVED SHALL BE REPLACED WITH COLD APPLIED

MATERIALS-(ALUMINUM PIPE)- THIS PIPE AND ITS APPURTENANCES SHALL CONFORM TO THE REQUIREMENTS OF AASHTO SPECIFICATION M-196 OR M-211 WITH WATERTIGHT COUPLINGS BANDS OR FLANGES. ALUMINUM SURFACES THAT ARE TO BE IN CONTACT WITH CONCRETE SHALL BE PAINTED WITH ONE COAT OF ZINC CHROMATE PRIMER. HOT DIP GALVANIZED BOLTS MAY BE USED FOR CONNECTIONS. THE PH OF THE SURROUNDING SOILS SHALL BE BETWEEN 4 AND 9.

2. COUPLING BANDS, ANTI-SEEP COLLARS, END SECTIONS, ETC., MUST BE COMPOSED OF THE SAME MATERIAL AS THE PIPE. METALS MUST BE INSULATED FROM DISSIMILAR MATERIALS WITH USE RUBBER OR PLASTIC INSULATING MATERIALS AT LEAST 24 MILS IN THICKNESS.

3. CONNECTIONS- ALL CONNECTIONS WITH PIPES MUST BE COMPLETELY WATERTIGHT. THE DRAIN PIPE OR BARREL CONNECTION TO THE RISER SHALL BE WELDED ALL AROUND WHEN THE PIPE AND RISER ARE METAL. ANTI-STEEP COLLARS SHALL BE CONNECTED TO THE PIPE IN SUCH A MANNER AS TO BE COMPLETELY WATERTIGHT. DIMPLE BANDS ARE NOT CONSIDERED TO BE WATERTIGHT.

ALL CONNECTIONS SHALL USE A RUBBER OF NEOPRENE GASKET WHEN JOINING PIPE SECTIONS. THE END OF EACH PIPE SHALL BE-ROLLED AND ADEQUATE NUMBER OF CORRUGATIONS TO ACCOMMODATE THE BAND WIDTH. THE FOLLOWING TYPE CONNECTIONS ARE ACCEPTABLE FOR PIPE LESS THAN 24" IN DIAMETER: FLANGES ON BOTH ENDS OF THE PIPE, A 12" WIDE STANDARD LAP TYPE BAND WITH 12" WIDE BY 3/8" THICK CLOSED CELL CIRCULAR NEOPRENE GASKET; AND A 12" WIDE HUGGER TYPE BAND WITH O-RING GASKETS HAVING MINIMUM DIAMETER OF 1/2" GREATER THAN THE CORRUGATION DEPTH. PIPES 24: IN DIAMETER AND LARGER SHALL BE CONNECTED BY A 24" LONG ANNULAR CORRUGATED BAND USING RODS AND LUGS. A 12" WIDE BY 3/8" THICK CLOSED CELL CIRCULAR NEOPRENE GASKET WILL BE INSTALLED ON THE END OF EACH PIPE FOR A TOTAL OF 24"

HELICALLY CORRUGATED PIPE SHALL HAVE EITHER CONTINUOUSLY WELDED SEAMS OR HAVE LOCK SEAMS WITH INTERNAL CAULKING OR A NEOPRENE BEAD.

4. BEDDING- THE PIPE SHALL BE FIRMLY AND UNIFORMLY BEDDED THROUGHOUT ITS ENTIRE LENGTH. WHERE ROCK OR SOFT, SPONGY OR OTHER UNSTABLE SOIL IS ENCOUNTERED ALL SUCH MATERIAL SHALL BE REMOVED AND REPLACED WITH SUITABLE EARTH COMPACTED TO PROVIDE ADEQUATE SUPPORT.

- 5. BACKFILLING SHALL CONFORM TO "STRUCTURE BACKFILL."
- 6. OTHER DETAILS (ANTI-SEEP COLLARS, VALVES, ETC.) SHALL BE AS SHOWN ON THE DRAWINGS.

REINFORCED CONCRETE PIPE- ALL OF THE FOLLOWING CRITERIA SHALL APPLY FOR REINFORCED CONCRETE

MATERIALS-REINFORCED CONCRETE PIPE SHALL HAVE BELL AND SPIGOT JOINTS WITH RUBBER GASKETS AND SHALL EQUAL OR EXCEED ASTM DESIGNATION C-361.

2. BEDDING- ALL REINFORCED CONCRETE PIPE CONDUITS SHALL BE LAID IN A CONCRETE BEDDING FOR THEIR ENTIRE LENGTH. THIS BEDDING SHALL CONSIST OF HIGH SLUMP CONCRETE PLACED UNDER THE PIPE AND UP THE SIDES OF THE PIPE AT LEAST 10% OF ITS OUTSIDE DIAMETER WITH A MINIMUM THICKNESS OF 3 INCHES, OR AS SHOWN ON THE DRAWINGS.

LAYING PIPE- BELL AND SPIGOT PIPE SHALL BE PLACED WITH THE BELL END UPSTREAM. JOINTS SHALL BE MADE IN ACCORDANCE WITH RECOMMENDATIONS OF THE MANUFACTURER OF THE MATERIAL. AFTER THE JOINTS ARE SEALED FOR THE ENTIRE LINE, THE BEDDING SHALL BE PLACED SO THAT ALL SPACES UNDER THE PIPE ARE FILLED. CARE SHALL BE EXERCISED TO PREVENT ANY DEVIATION FROM THE ORIGINAL LINE AND GRADE OF THE PIPE. THE FIRST JOINT MUST BE LOCATED WITHIN 2 FEET FROM THE RISER.

- 4. BACKFILLING SHALL CONFORM TO "STRUCTURE BACKFILL."
- 5. OTHER DETAILS (ANTI-SEEP COLLARS, VALVES, ETC.) SHALL BE AS SHOWN ON THE DRAWINGS. POLYVINYL CHLORIDE (PVC) PIPE- ALL OF THE FOLLOWING CRITERIA SHALL APPLY FOR POLYVINYL CHLORIDE

MATERIALS-PVC PIPE SHALL BE PVC-1120 OR PVC-1220 CONFORMING TO ASTM D-1785 OR

2. JOINTS AND CONNECTIONS TO ANTI-SEEP COLLARS SHALL BE COMPLETELY WATERTIGHT.

3. BEDDING- THE PIPE SHALL BE FIRMLY AND UNIFORMLY BEDDED THROUGHOUT ITS ENTIRE LENGTH. WHERE ROCK OR SOFT, SPONGY OR OTHER UNSTABLE SOIL IS ENCOUNTERED, ALL SUCH MATERIAL SHALL BE REMOVED AND REPLACED WITH SUITABLE EARTH COMPACTED TO PROVIDE ADEQUATE SUPPORT.

4. BACKFILLING SHALL CONFORM TO "STRUCTURE BACKFILL."

5. OTHER DETAILS (ANTI-SEEP COLLARS, VALVES, ETC.) SHALL BE AS SHOWN ON THE DRAWINGS.

CONCRETE SHALL MEET THE REQUIREMENTS OF MARYLAND DEPARTMENT OF TRANSPORTATION, STATE HIGHWAY ADMINISTRATION STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS, SECTION 905.

THE RIPRAP SHALL BE PLACED TO THE REQUIRED THICKNESS IN ONE OPERATION. THE ROCK SHALL BE DELIVERED AND PLACED IN A MANNER THAT WILL INSURE THE RIPRAP IN PLACE SHALL BE REASONABLY HOMOGENOUS WITH THE LARGER ROCKS UNIFORMLY DISTRIBUTED AND FIRMLY IN CONTACT ONE TO ANOTHER WITH THE SMALLER ROCKS FILLING THE VOIDS BETWEEN THE LARGER ROCKS. FILTER CLOTH SHALL BE REPLACED UNDER ALL RIPRAP AND SHALL MEET THE REQUIREMENTS OF MARYLAND DEPARTMENT OF TRANSPORTATION, STATE HIGHWAY ADMINISTRATION STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS, SECTION

CARE OF WATER DURING CONSTRUCTION

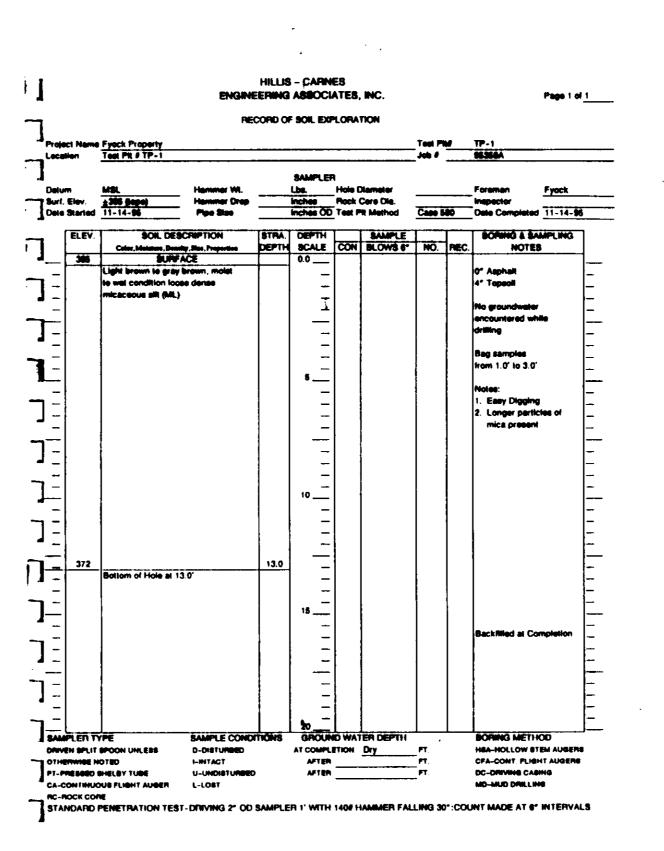
ALL WORK ON THE PERMANENT STRUCTURES SHALL BE CARRIED OUT IN AREAS FREE FROM WATER. THE CONTRACTOR SHALL CONSTRUCT AND MAINTAIN ALL TEMPORARY DIKES, LEVEES, COFFERDAMS, DRAINAGE CHANNELS, AND STREAM DIVERSIONS NECESSARY TO PROTECT THE AREAS TO BE OCCUPIED BY THE PERMANENT WORKS. THE CONTRACTOR SHALL ALSO FURNISH, INSTALL, OPERATE AND MAINTAIN ALL NECESSARY PUMPING AND OTHER EQUIPMENT REQUIRED FOR REMOVAL OF WATER FROM THE VARIOUS PARTS OF THE WORK AND FOR MAINTAINING THE EXCAVATIONS, FOUNDATION AND OTHER PARTS OF THE WORK FREE FROM WATER AS REQUIRED OR DIRECTED BY THE ENGINEER FOR CONSTRUCTING EACH PART OF THE WORK. AFTER HAVING SERVED THEIR PURPOSE, ALL TEMPORARY PROTECTIVE WORKS SHALL BE REMOVED OR LEVELED AND GRADED TO THE EXTENT REQUIRED TO PREVENT OBSTRUCTION IN ANY DEGREE WHATSOEVER OF THE FLOW OF WATER TO THE SPILLWAY OR OUTLET WORKS AND SO AS NOT TO INTERFERE IN ANY WAY WITH THE OPERATION OR MAINTENANCE OF THE STRUCTURE. STREAM DIVERSIONS SHALL BE MAINTAINED UNTIL THE FULL FLOW CAN BE PASSED THROUGH THE PERMANENT WORKS. THE REMOVAL OF WATER FROM THE REQUIRED EXCAVATION AND THE FOUNDATION SHALL BE ACCOMPLISHED IN A MANNER AND TO THE EXTENT THAT WILL MAINTAIN STABILITY OF THE EXCAVATED SLOPES AND BOTTOM OF THE REQUIRED EXCAVATIONS AND WILL ALLOW SATISFACTORY PERFORMANCE OF ALL AND CONSTRUCTION OPERATIONS. DURING THE PLACING AND COMPACTING OF MATERIAL IN REQUIRED EXCAVATIONS, THE WATER LEVEL AT THE LOCATIONS BEING REFILLED SHALL BE MAINTAINED BELOW THE BOTTOM OF THE EXCAVATION AT SUCH LOCATIONS WHICH MAY REQUIRE DRAINING THE WATER TO SUMPS FROM WHICH THE WATER SHALL BE PUMPED.

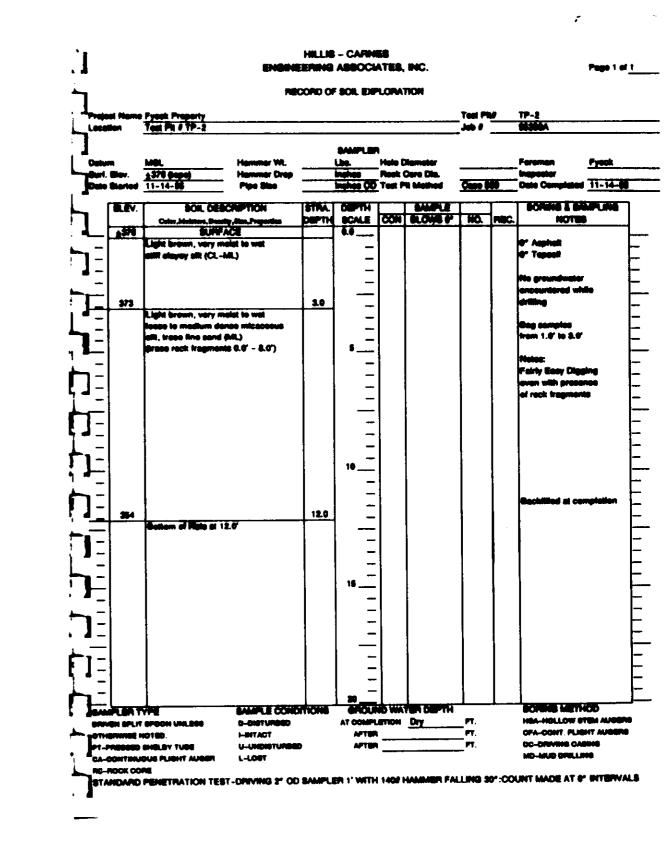
STABILIZATION

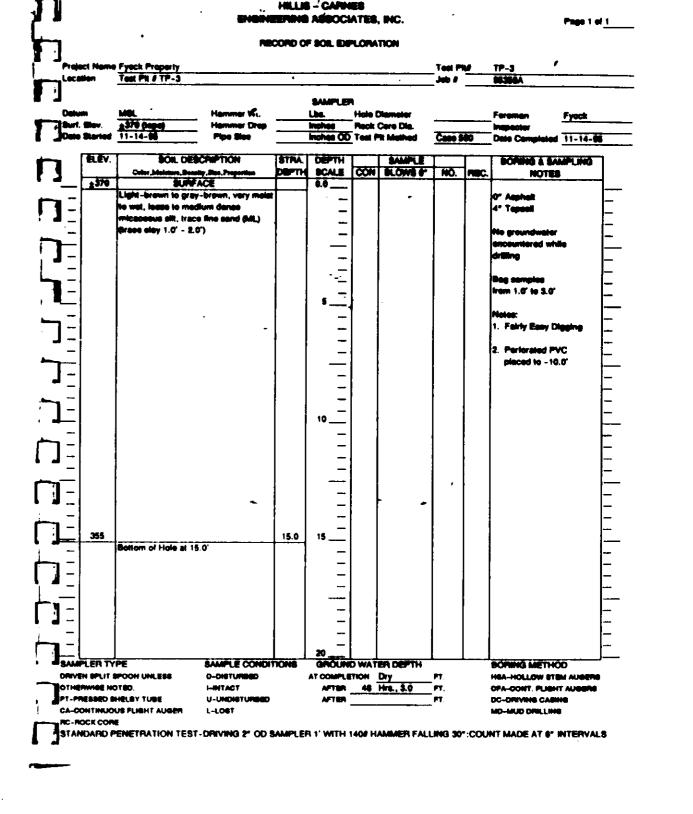
ALL BORROW AREAS SHALL BE GRADED TO PROVIDE PROPER DRAINAGE AND LEFT IN A SLIGHTLY CONDITION. ALL EXPOSED SURFACES OF THE EMBANKMENT, SPILLWAY, SPOIL AND BORROW AREAS, AND BERMS SHALL BE STABILIZED BY SEEDING, LIMING, FERTILIZING AND MULCHING IN ACCORDANCE WITH THE MARYLAND SOIL CONSERVATION SERVICE STANDARDS AND SPECIFICATIONS FOR CRITICAL AREA PLANTING (MD-342) OR AS SHOWN ON THE ACCOMPANYING DRAWINGS.

EROSION AND SEDIMENT CONTROL

CONSTRUCTION OPERATIONS WILL BE CARRIED OUT IN SUCH A MANNER THAT EROSION WILL BE CONTROLLED AND WATER AND AIR POLLUTION MINIMIZED. STATE AND LOCAL LAWS CONCERNING POLLUTION ABATEMENT WILL BE FOLLOWED. CONSTRUCTION PLANS SHALL DETAIL EROSION AND SEDIMENT CONTROL MEASURES TO BE EMPLOYED DURING THE CONSTRUCTION PROCESS.







OWNER/DEVELOPER

JACK C. FYOCK PO BOX 89 TRIADELPHIA ROAD GLENELG, MD 21737

C/O JACK FYOCK SEPTIC SERVICE, INC.

(410)988-9270

PRINTED NAME OF DEVELOPE ENGINEER'S CERTIFICATE CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE EQUIREMENTS OF THE NATURAL RESOURCE CONSERVATION SERVICE. THESE PLANS HAVE BEEN REVIEWED FOR THE SOIL CONSERVATION DISTRICT AND MEET TECHNICAL REQUIREMENTS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL. THESE PLANS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT. AS BUILT CERTIFICATION ENGINEER'S SIGNATURE DATE

APPROVED: DEPARTMENT OF PLANNING AND ZONING

CHIEF, DIVISION OF LAND DEVELOPMENT

DEVELOPERS CERTIFICATE

ACCORDING TO THIS PLAN, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON—SITE INSPECTION

I CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE

BY THE NATURAL RESOURCE CONSERVATION SERVICE.



8 of 11

SDP-96-124

SCEL 201 PERT

22,P. PR

|≥ O

TAX YO

H

SO

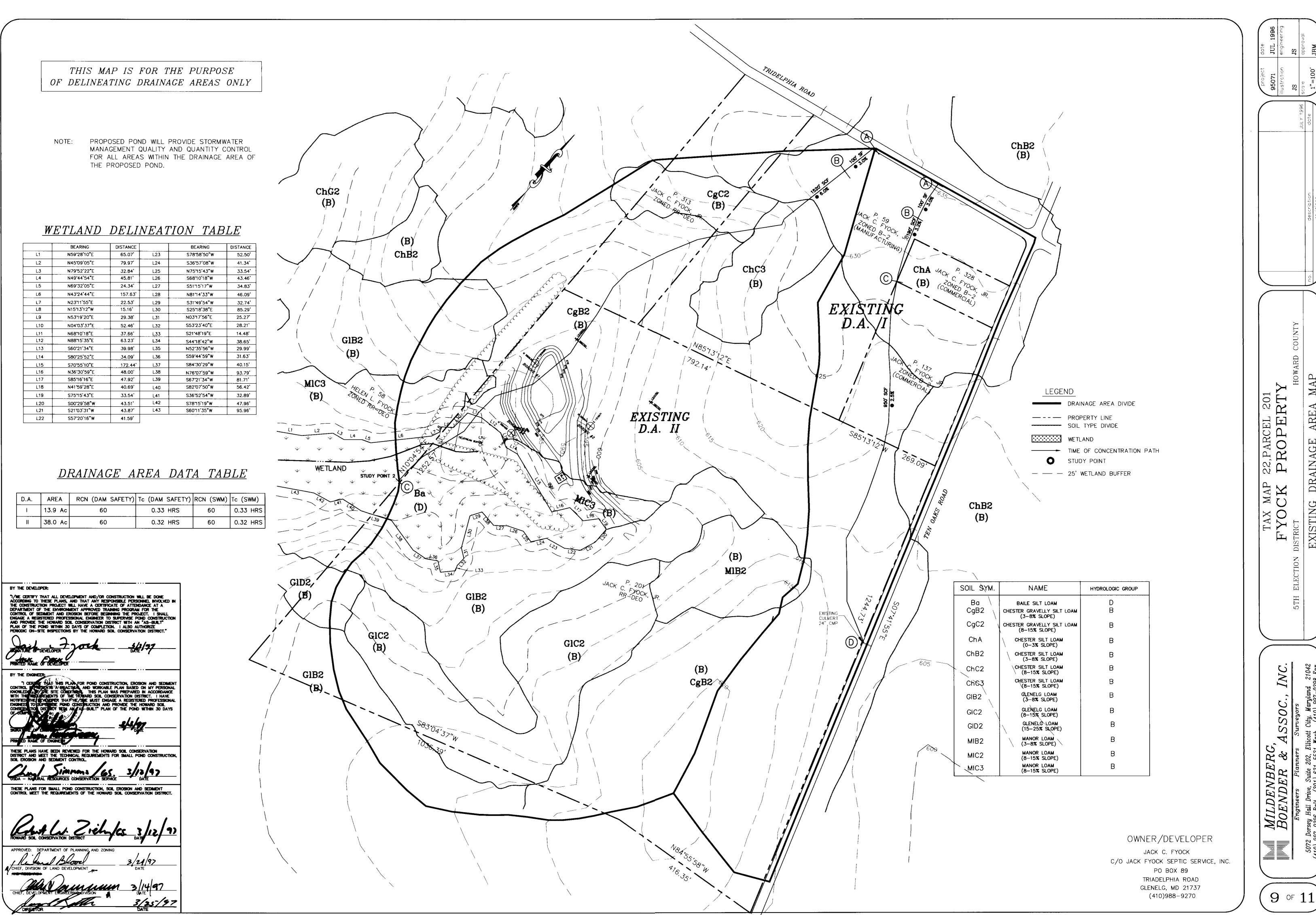
0

ATIO

ND

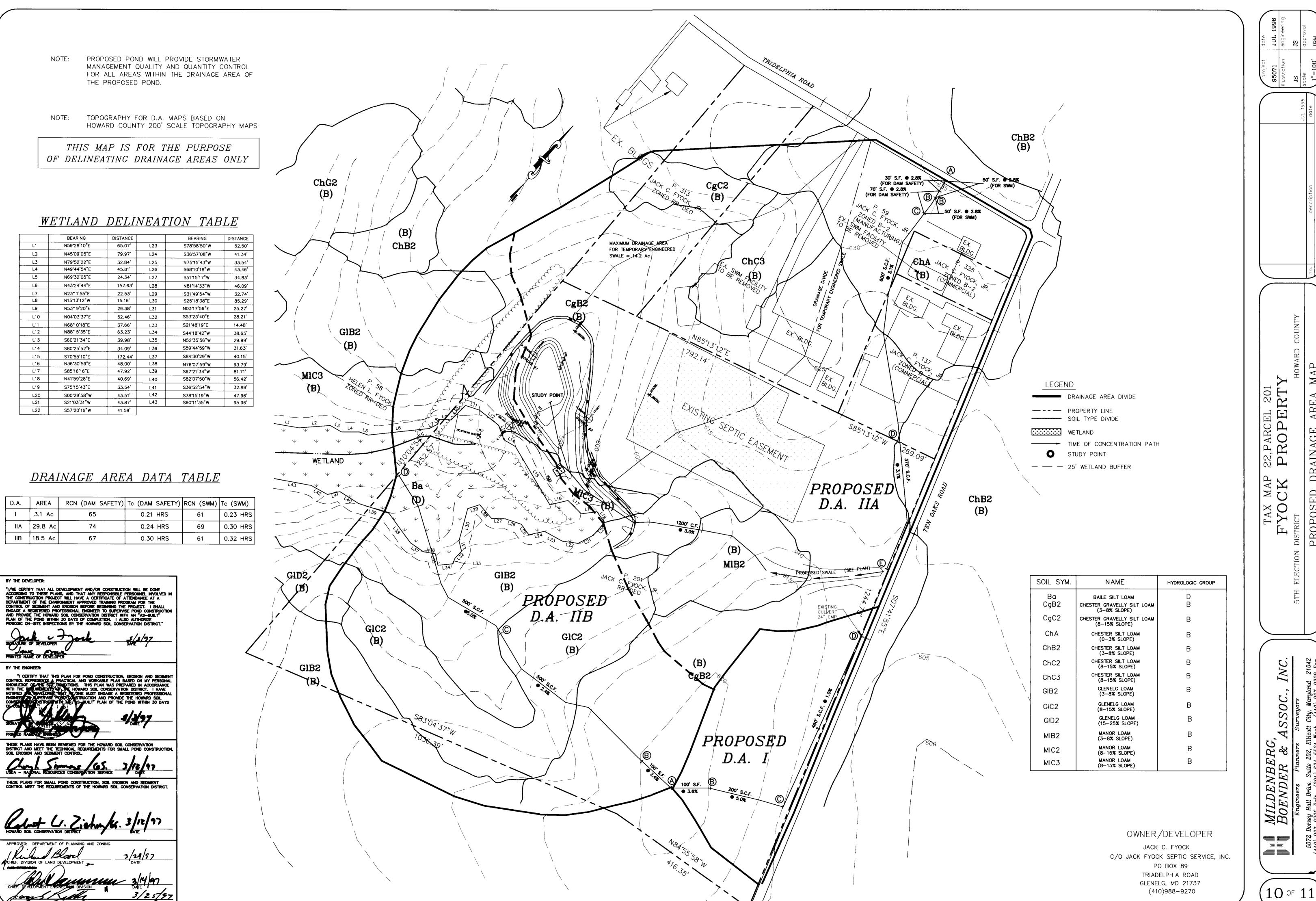
P0

21042 98 Fax.



SDP - 96 - 124

Soc.



PROPOSED SSOC.

SDP-96-124

