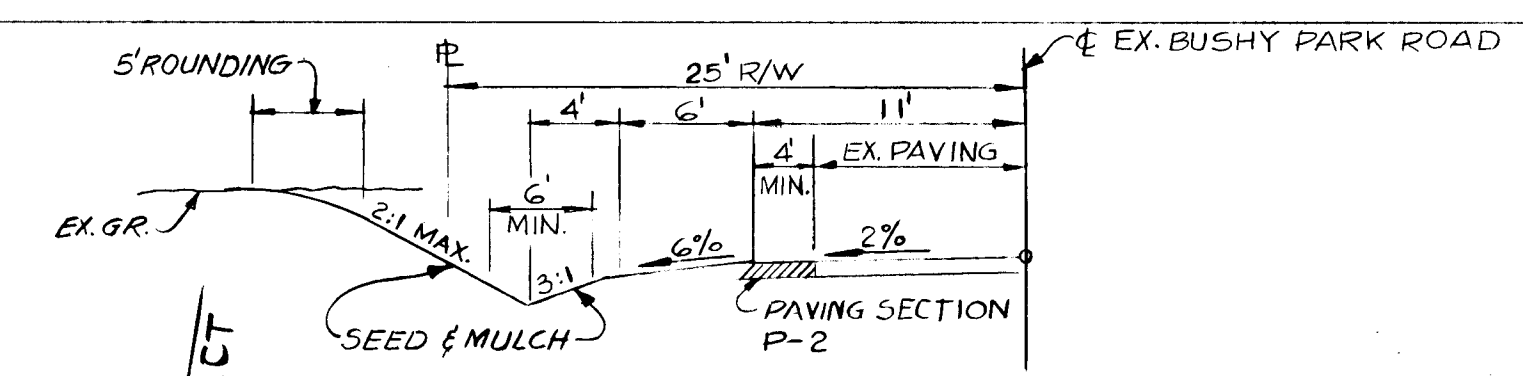
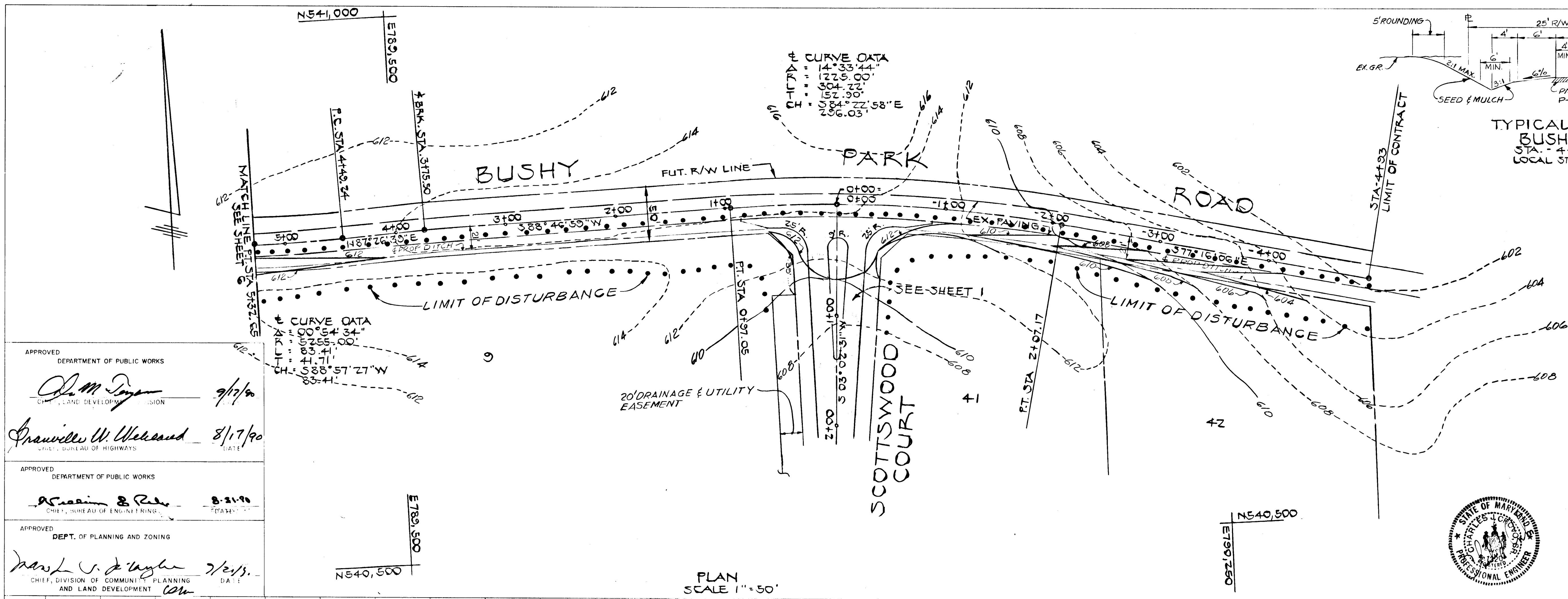


DATE
BY
CHECKED
PLANNING
NOTE BOOK
NO.

DATE
BY
CHECKED
PROFILES
NOTE BOOK
NO.

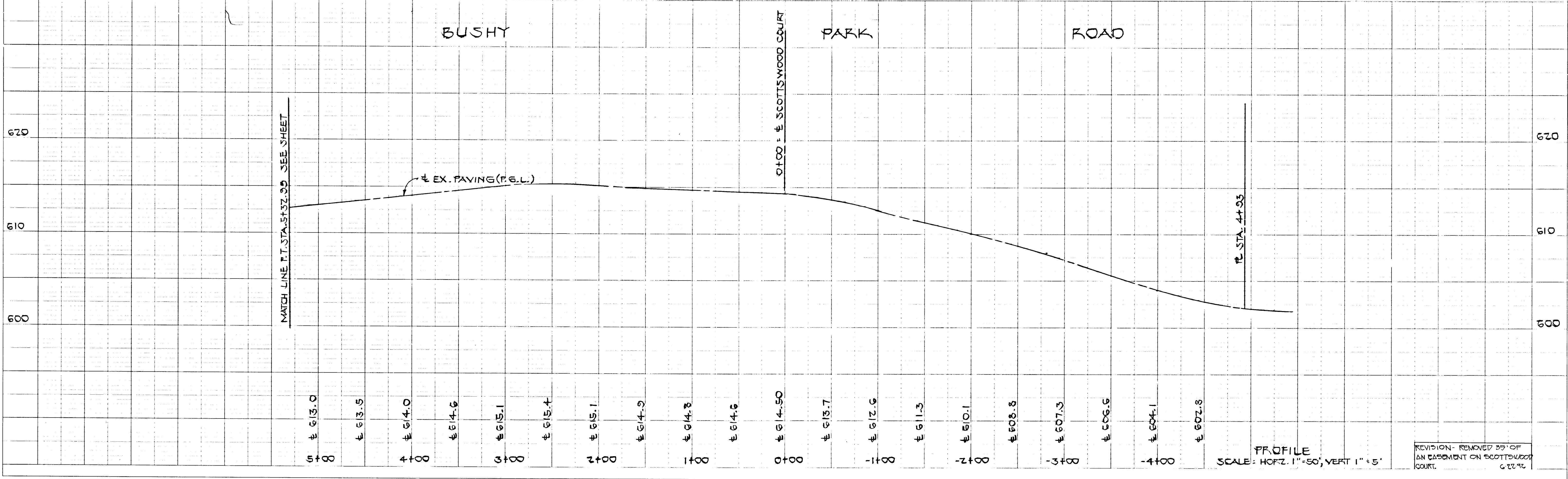


COUNTRY SPRINGS
LOTS 1-42
ELECTION DISTRICT 4
BUSHY PARK ROAD
PLAN & PROFILE

OWNER AND DEVELOPER
CARMAN ASSOCIATES
P.O. BOX 172
ELLICOTT CITY, MD. 21043

SCALE AS SHOWN DATE 2-12-90 DWG NO 5 OF 13
DES. D.B. DEN. D.B. CHK. C.C.

FISHER, COLLINS AND CARTER, INC.
CIVIL ENGINEERS AND LAND SURVEYORS
8388 COURT AVE. ELLICOTT CITY, MARYLAND 21043



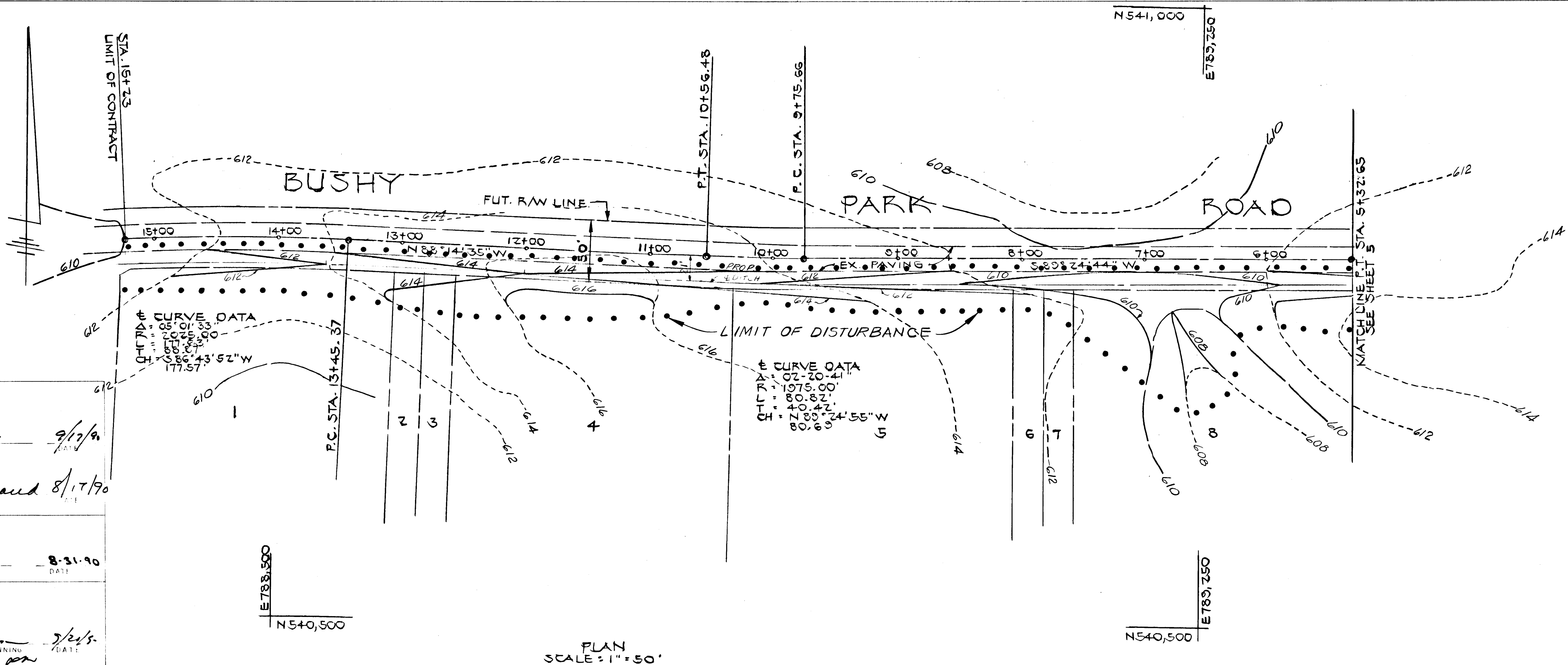
1561

PLAN
 SURVEYED
 PLOTTED
 ALIGNMENT CHECKED
 RT. OF WAY CHECKED
 NOTE BOOK NO.
 DATE

APPROVED
 DEPARTMENT OF PUBLIC WORKS
Oliver M. Dwyer 9/17/90
 CHIEF, BUREAU OF HIGHWAY DESIGN

APPROVED
 DEPARTMENT OF PUBLIC WORKS
Garrett E. Ryan 8-31-90
 CHIEF, BUREAU OF ENGINEERING

APPROVED
 DEPT. OF PLANNING AND ZONING
David J. Langston 8/21/90
 CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT



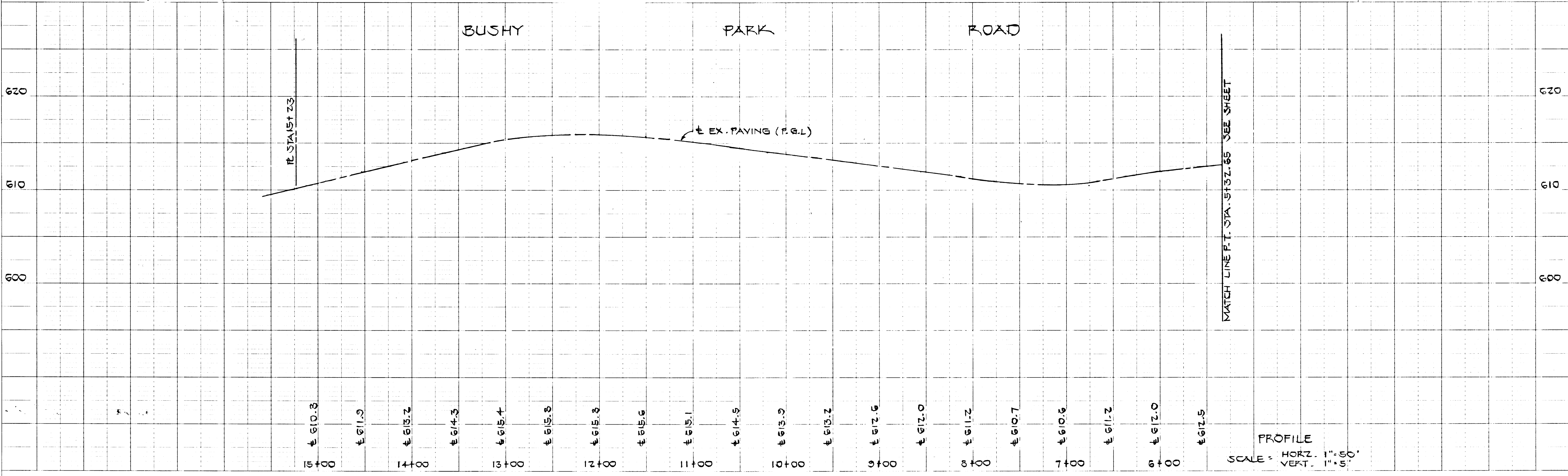
**COUNTRY SPRINGS
 LOTS 1-42
 ELECTION DISTRICT 4
 BUSHY PARK ROAD
 PLAN & PROFILE**

OWNER AND DEVELOPER
CARMAN ASSOCIATES
 P.O. BOX 122
 ELLICOTT CITY, MD. 21043

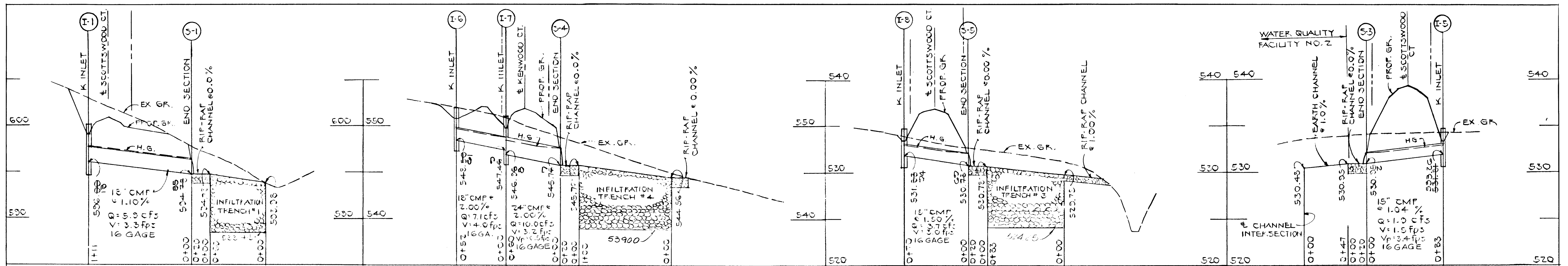
SCALE AS SHOWN DATE 2-17-90 DWG NO. 6 OF 13
 DES. DB. DRN. DB. CHK. C.C.

FISHER, COLLINS AND CARTER, INC.
 CIVIL ENGINEERS AND LAND SURVEYORS
 8388 COURT AVE. ELLICOTT CITY, MARYLAND 21043

PROFILE
 SURVEYED
 GRADES CHECKED
 B.M. NOTED
 STRUCTURE NOTATIONS CHECKED
 NOTE BOOK NO.
 DATE



1561



CONSTRUCTION NOTES FOR INFILTRATION TRENCH

- The aggregate material for the infiltration trench shall consist of a clean aggregate with a maximum diameter of 3 inches and a minimum diameter of 1/4 inches. The aggregate shall be graded such that there will be few aggregates smaller than the selected size.
- The aggregate fill material shall be completely surrounded with an engineering filter fabric

Timing
An infiltration trench shall not be constructed or placed in service until all of the contributing drainage area has been stabilized and approved by the responsible inspector.

Trench Preparation
Excavate the trench to the design dimensions. Excavated materials shall be placed away from the trench sides to enhance trench wall stability. Large tree roots must be trimmed flush with the trench sides in order to prevent fabric puncturing or tearing during subsequent installation procedures. The side walls of the trench shall be roughened where sheared and sealed by heavy equipment.

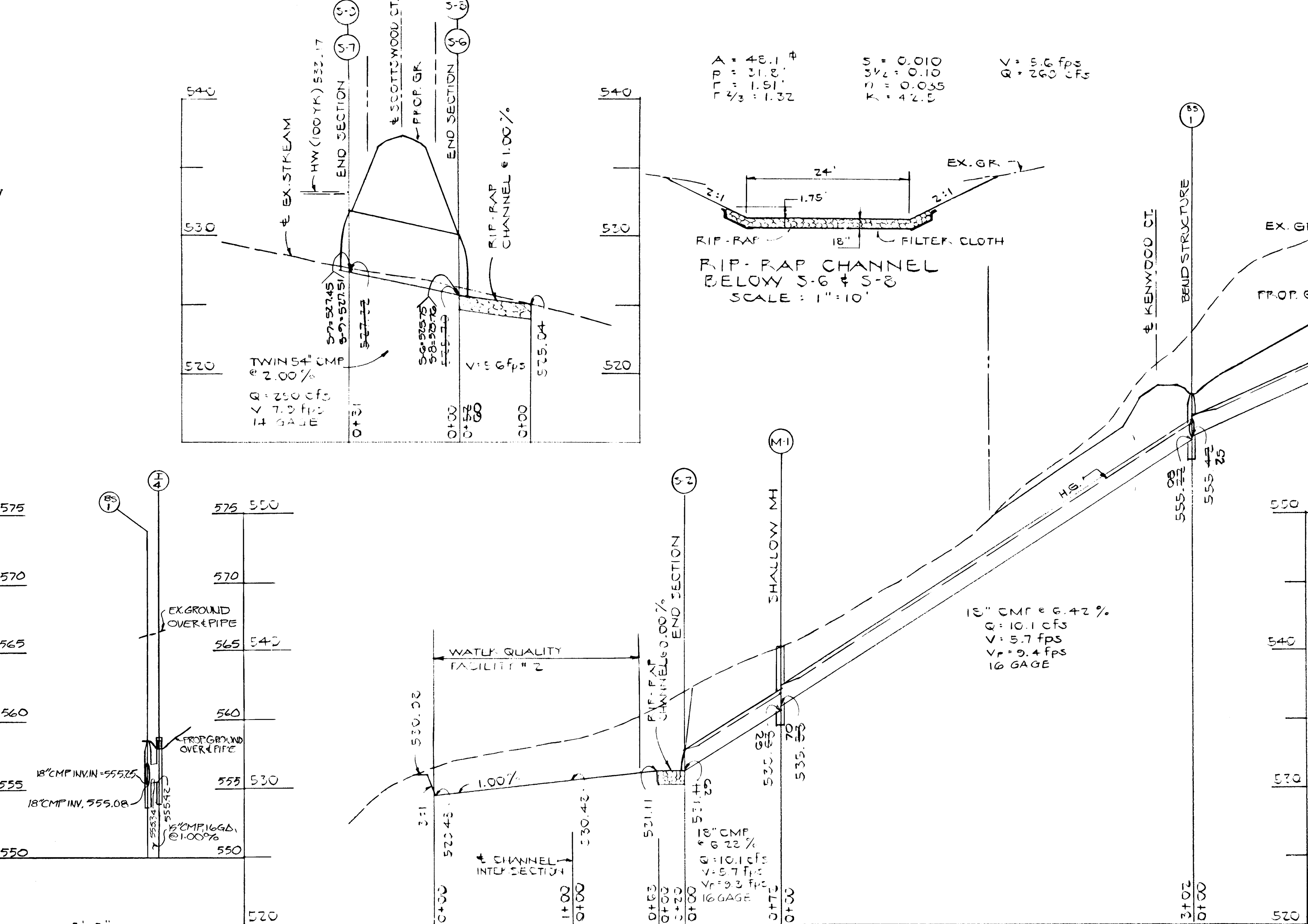
Fabric Laydown
The filter fabric roll must be cut to the proper width prior to installation. The cut width must include sufficient material to conform to trench perimeter irregularities and for a 6-inch minimum top overlap. Place the fabric roll over the trench and unroll a sufficient length to allow placement of the fabric down into the trench. Stones or other anchoring objects should be placed on the fabric at the edge of the trench to keep the lined trench open during windy periods. When overlaps are required between rolls, the upstream roll should lap a minimum of 2 feet over the downstream roll in order to provide a shingled effect. The overlap ensures fabric continuity or to ensure that the fabric conforms to the excavation surface during aggregate placement and compaction.

Stone Aggregate Placement and Compaction
The stone aggregate should be placed in lifts and compacted using plate compactors. As a rule of thumb, a maximum loose lift thickness of 12 inches is recommended. The compaction process ensures fabric conformity to the excavation sides, thereby reducing the potential for soil piping, fabric clogging, and settlement problems.

Overlapping and Covering
Following the stone aggregate placement, the filter fabric shall be folded over the stone aggregate to form a 6" minimum longitudinal lap. The desired fill soil or stone aggregate shall be placed over the lap at sufficient intervals to maintain the lap during subsequent backfilling.

Contamination
Care shall be exercised to prevent natural or fill soils from intermixing with the stone aggregate. All contaminated stone aggregate shall be removed and replaced with uncontaminated stone aggregate.

Voids Behind Fabric
Voids can be created between the fabric and excavation sides and shall be avoided. Removing boulders or other obstacles from the trench walls is one source of such voids. Natural soils should be placed in these voids at the most convenient time during construction to ensure fabric conformity to the excavation sides. Soil piping, fabric clogging, and possible surface subsidence will be avoided by this remedial process.

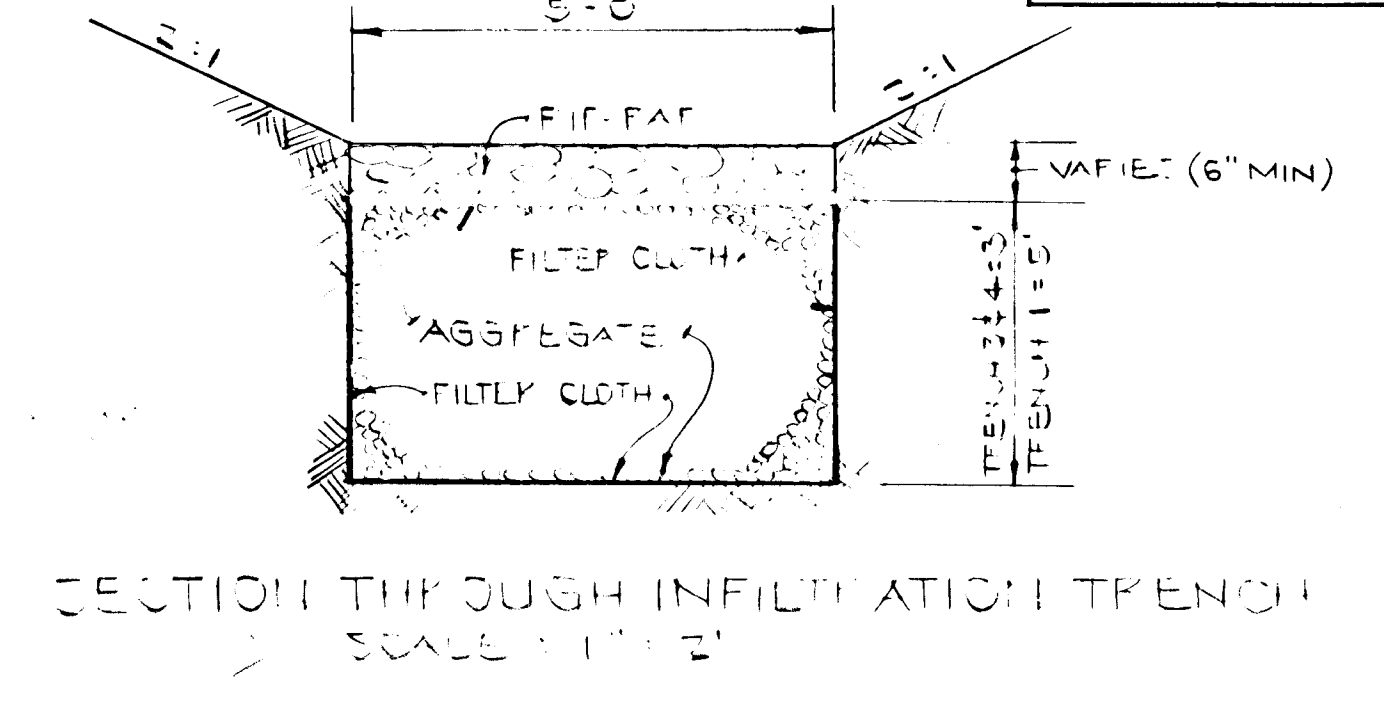


STRUCTURE SCHEDULE					
NO.	TYPE	INV. IN	INV. OUT	TOP	REMARKS
I-1	K GATE	-	526.84	600.42	SD 4.15
I-2	"	-	540.86	572.22	"
I-3	"	-	549.80	572.22	"
I-4	D INLET	555.45	550.40	558.58	SD 4.11
I-5	K GATE	552.01	541.32	524.08	SD 4.12
I-6	D	-	543.46	551.08	SD 4.11
I-7	K GATE	547.44	546.30	551.08	SD 4.13
I-8	K GATE	-	531.22	524.08	SD 4.13
M-1	SHALLOW MH	535.23	535.23	540.20	SD 3.05
S-1	END SECTION	-	504.78	574.05	SD 3.01
S-2	"	-	531.11	-	"
S-3	"	-	530.22	-	"
S-4	"	-	545.76	-	"
S-5	"	-	530.74	-	"
S-6	"	-	525.74	-	"
S-7	"	-	527.45	-	"
S-8	"	-	545.76	-	"
S-9	END SECTION	-	544.74	-	SD 3.01
BS-1	BEND STRUCTURE	555.42	555.22	575.82	SD 1.01

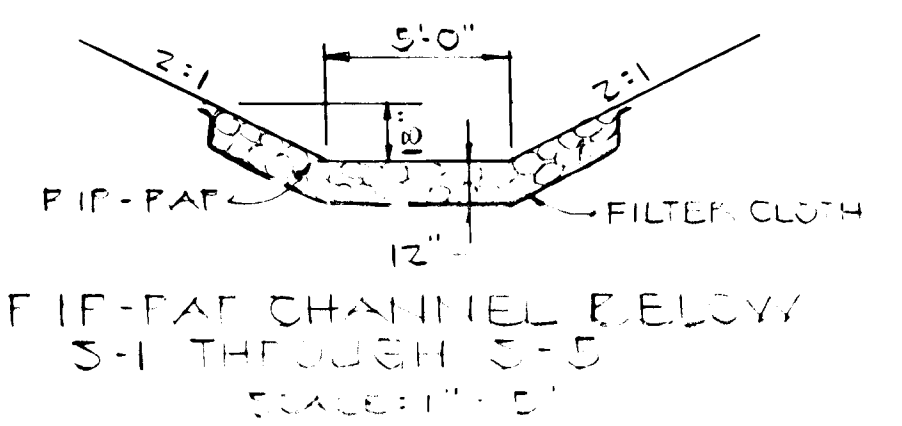
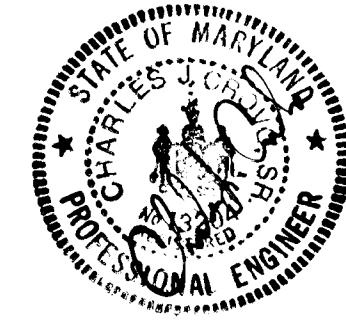
* 4 SIDED OPEN

APPROVED:
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
9/13/80
DATE
9/17/90
DATE
8-31-90
DATE

APPROVED:
DEPT. OF PLANNING & ZONING
7/24/80
DATE



REVISE BY MY 10/11/91 ADDED BS-1 TO PROFILE & ADDED BS-1 TO I-4 PROFILE, ADDED BS-1 & I-4 TO STRUCTURE SCHEDULE



COUNTRY SPRINGS LOTS 1-42 ELECTION DISTRICT 4 STORM DRAIN PROFILES AND DETAILS

OWNER AND DEVELOPER:
CARMAN ASSOCIATES
P.O. BOX 122
ELLCOTT CITY, MD. 21043

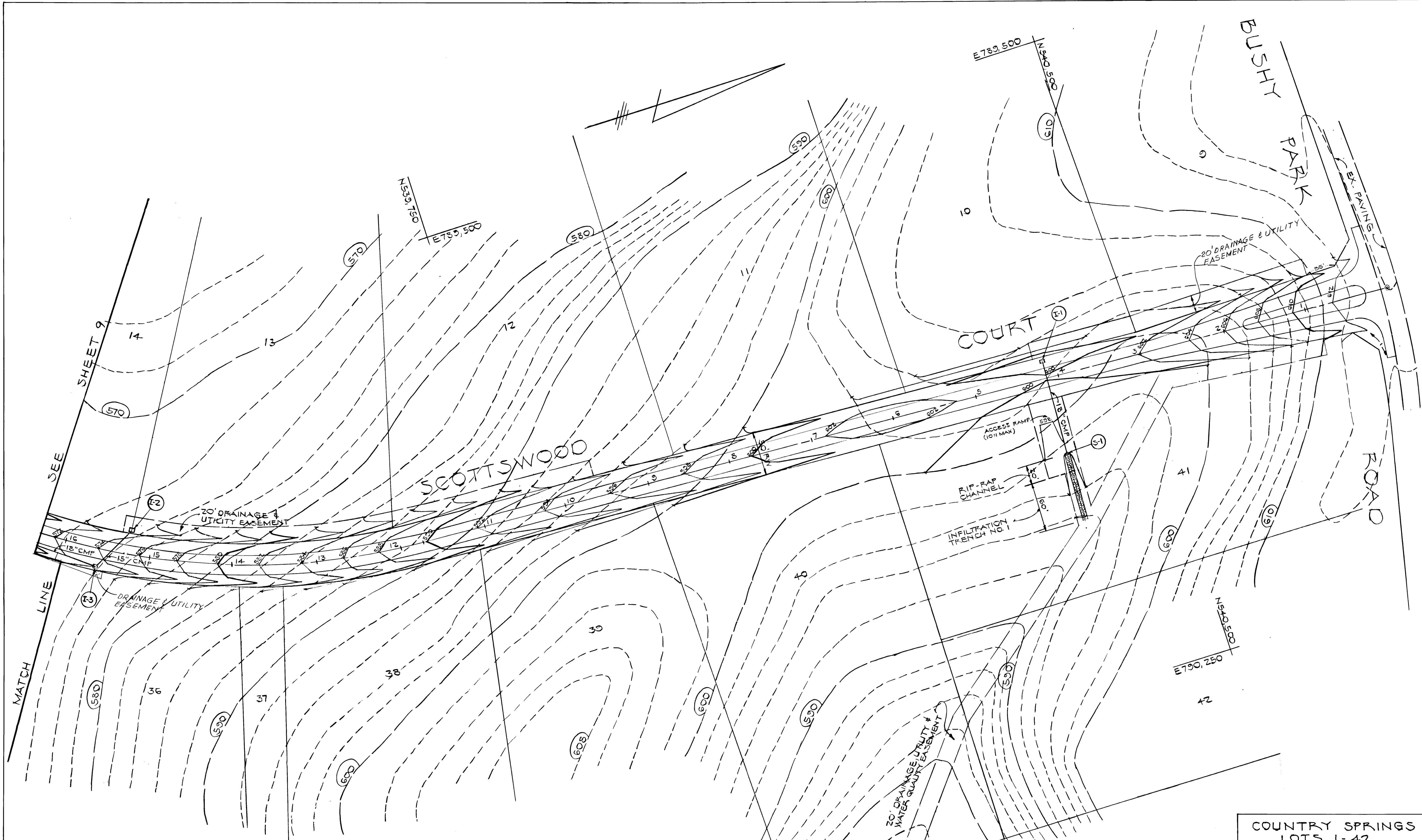
SCALE: AS SHOWN DATE: 5-18-80 DWG. NO. 7 OF 13
DES. DB. DWN. DB. CHK. CC

FISHER, COLLINS AND CARTER, INC.
CIVIL ENGINEERS AND LAND SURVEYORS
8388 COURT AVE. ELLCOTT CITY, MARYLAND 21043

AS-BUILT
3/27/92

F 90-59A

1561



APPROVED:
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
William J. ... 9/17/90
 CHIEF, LAND DEVELOPMENT DIVISION DATE
Lawrence W. ... 8/17/90
 CHIEF, BUREAU OF HIGHWAYS DATE
... 8/11/90
 CHIEF, BUREAU OF ENGINEERING DATE
 APPROVED
 DEPT. OF PLANNING & ZONING
... 9/24/90
 CHIEF, DIVISION OF COMMUNITY PLANNING & LAND DEVELOPMENT DATE

COUNTRY SPRINGS
 LOTS 1-42
 ELECTION DISTRICT 4
 GRADING PLAN
 OWNER AND DEVELOPER
 CARMAN ASSOCIATES
 P.O. BOX 122
 ELLICOTT CITY, MD. 21043
 SCALE: 1" = 50' DATE 5-18-89 DWG. NO. 8 OF 13
 DES. DB. OPN. DB. CHK. CC
 FISHER, COLLINS AND CARTER, INC.
 CIVIL ENGINEERS AND LAND SURVEYORS
 8388 COURT AVE. ELLICOTT CITY, MARYLAND 21043
 8/11/90

1561

STORM WATER MANAGEMENT POND CERTIFICATION AND APPROVAL

DEVELOPER'S CERTIFICATE

I HEREBY 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 NATURAL RESOURCES TRAINING PROGRAM FOR THE CONTROL OF SEDIMENTATION. I HAVE NOTIFIED THE HOWARD SOIL CONSERVATION DISTRICT WITHIN 30 DAYS OF THE DATE OF COMPLETION OF THESE PLANS.

Small Blaine 8/31/90

ENGINEER'S CERTIFICATE

I CERTIFY THAT THIS PLAN FOR POND CONSTRUCTION, EROSION AND SEDIMENT CONTROL, REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS. THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT. I HAVE NOTIFIED THE DISTRICT WITHIN 30 DAYS OF THE DATE OF COMPLETION OF THESE PLANS.

Chitch 8/31/90

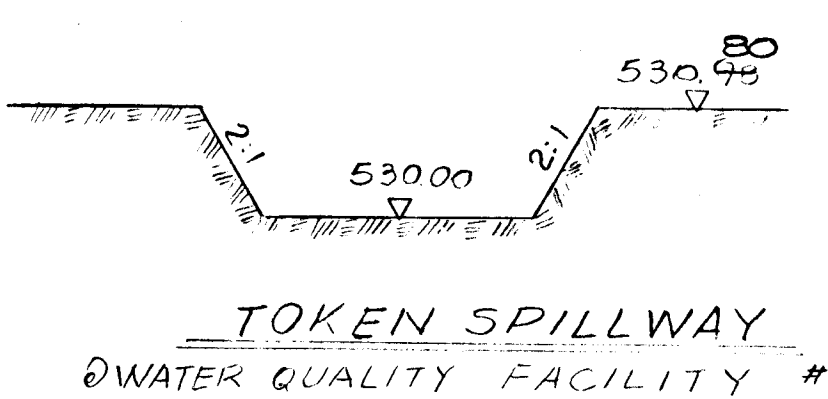
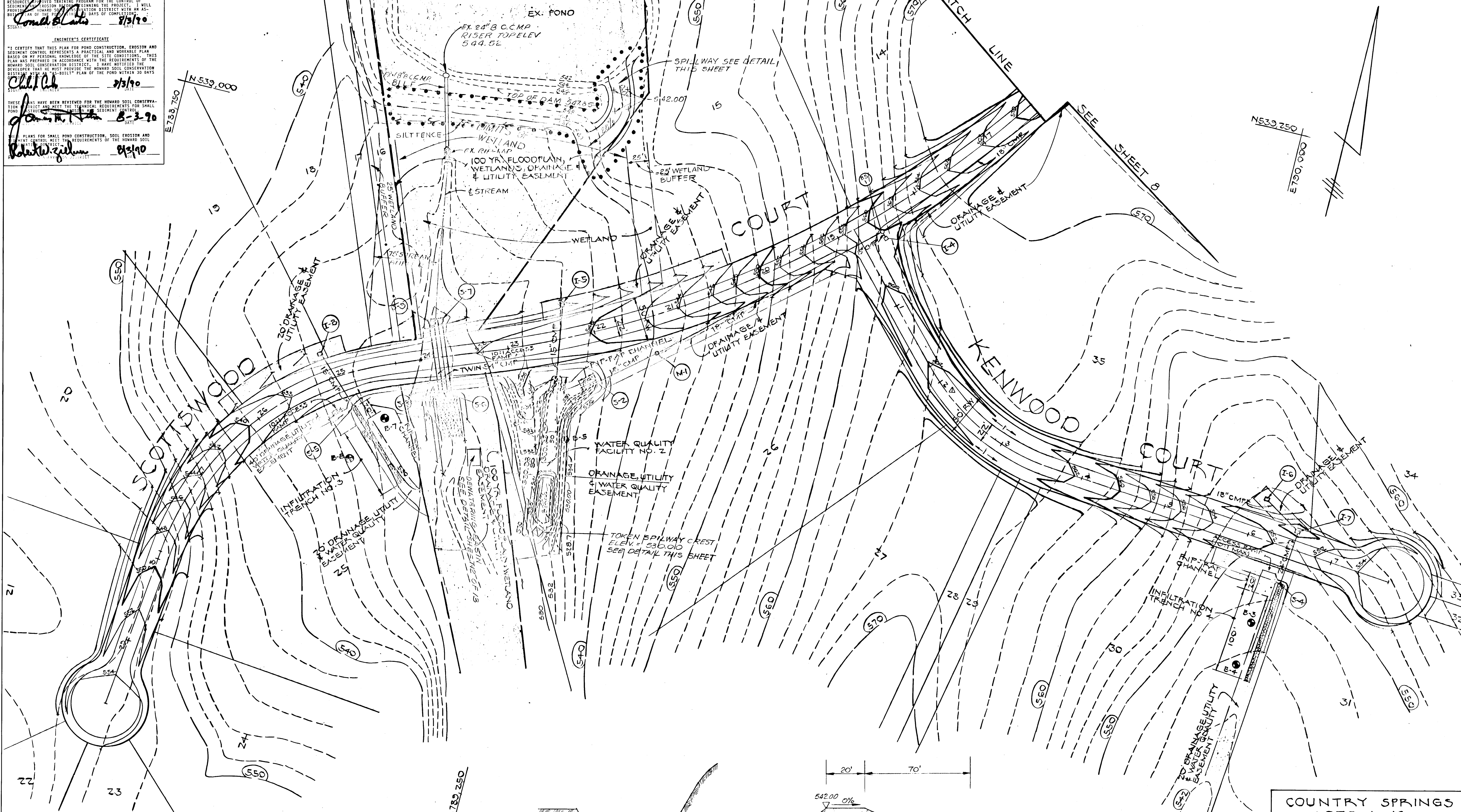
These plans have been reviewed for the HOWARD SOIL CONSERVATION DISTRICT and meet the technical requirements for small pond construction and sediment control.

James M. Smith 8-3-90

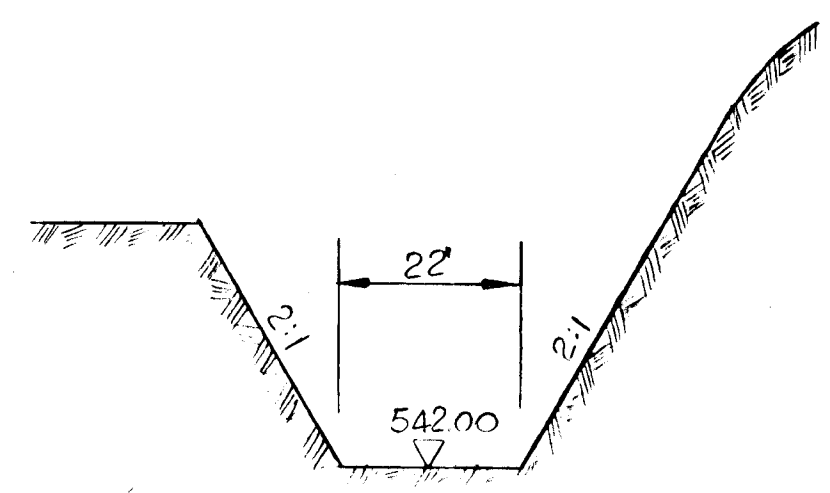
Plans for small pond construction, soil erosion and sediment control meet the requirements of the HOWARD SOIL CONSERVATION DISTRICT.

Robert W. Zilman 8/31/90

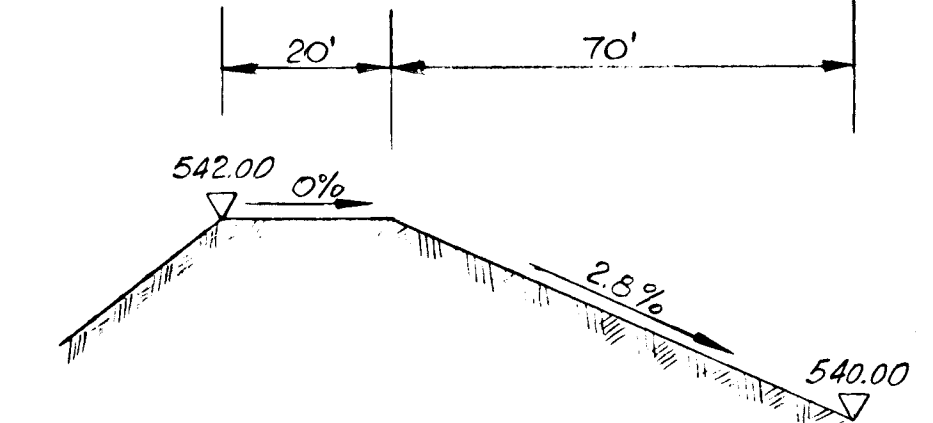
NOTE: CONTRACTOR SHALL CUT-IN THE SPILLWAY AS SHOWN HEREON AND SHALL PLACE THE CUT MATERIAL ON THE FACE OF THE DAM AT A 2:1 SLOPE MAX. ALL DISTURBED AREAS WILL BE STABILIZED WITH PERMANENT SEED AND MULCH.



TOKEN SPILLWAY WATER QUALITY FACILITY #2



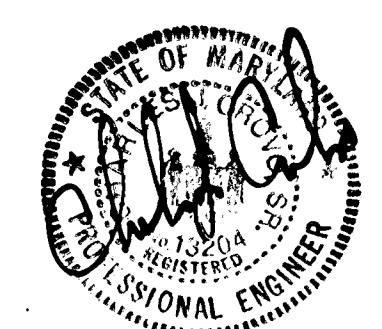
SPILLWAY DETAIL NOT TO SCALE



PROFILE THROUGH SPILLWAY NOT TO SCALE

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
Chief, Land Development Division
8/31/90
Chief, Bureau of Highways
8/31/90
Chief, Bureau of Engineering
8/31/90
APPROVED: DEPT. OF PLANNING & ZONING
Chief, Division of Community Planning & Land Development
8/31/90

REVISED BY MY, 10/11/91
ADDED BS-1 RELOCATED
I-4 & MFC FROM M-1 TO I-3



COUNTRY SPRINGS
LOTS 1-42
ELECTION DISTRICT 4

GRADING PLAN

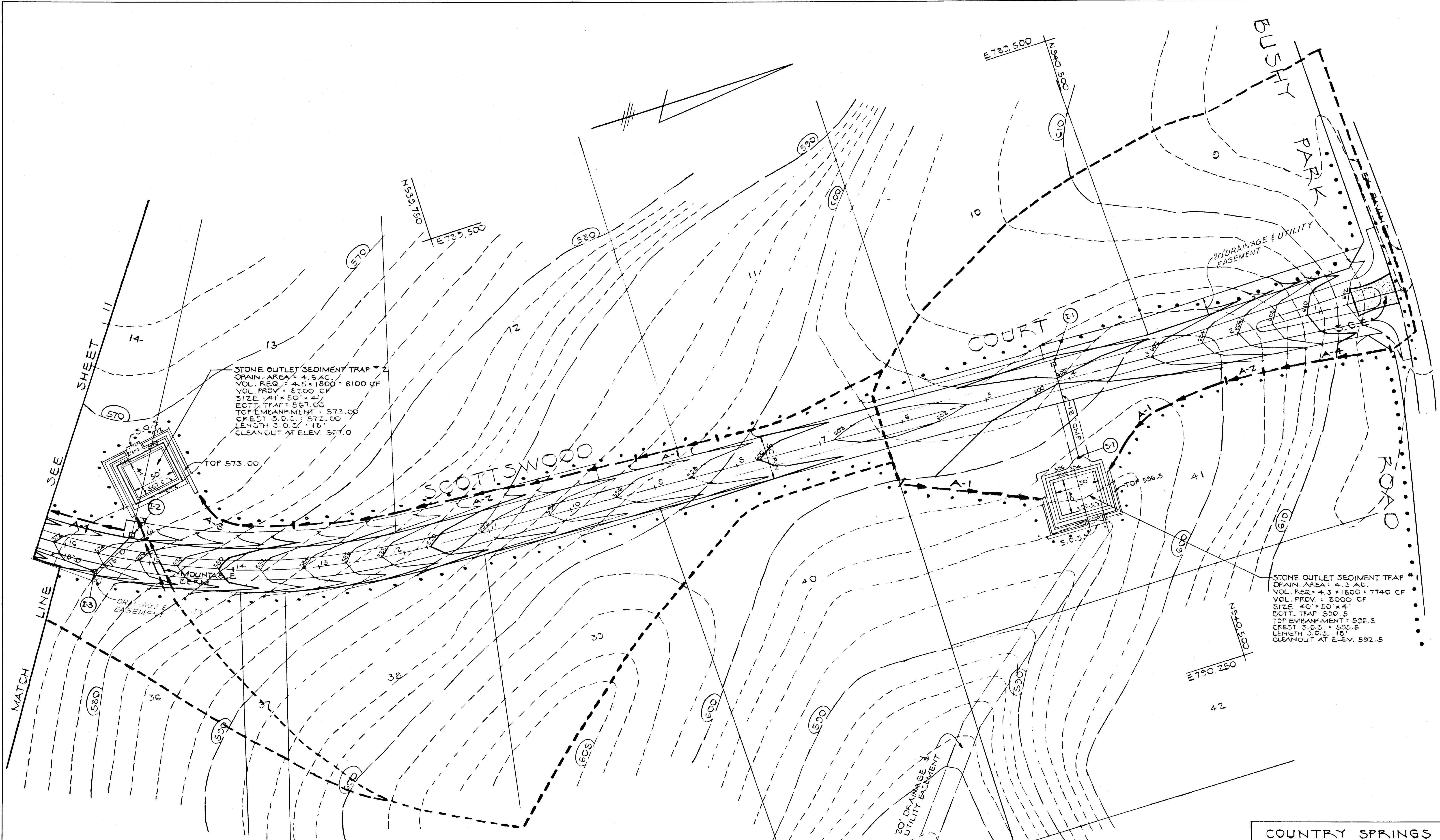
OWNER AND DEVELOPER
CARMAN ASSOCIATES
P.O. BOX 122
ELLCOTT CITY, MD. 21043

SCALE: 1" = 50' DATE 5-18-89 DWG. NO. 9 OF 13
DES. DB DRN. DB CHK. CC

FISHER, COLLINS AND CARTER, INC.
CIVIL ENGINEERS AND LAND SURVEYORS
8388 COURT AVE. ELLCOTT CITY, MARYLAND 21043

AS-BUILT F90-59A

1561



STONE OUTLET SEDIMENT TRAP #2
 DRAIN AREA = 4.5 AC.
 VOL. REQ. = 4.5 x 1800 = 8100 CF
 VOL. PROV. = 8700 CF
 SIZE 41' x 50' x 4'
 BOTT. TRAP = 567.00
 TOP EMBANKMENT = 573.00
 CHEST S.O.S. = 572.00
 LENGTH S.O.S. = 18'
 CLEANOUT AT ELEV. 567.0

STONE OUTLET SEDIMENT TRAP #1
 DRAIN AREA = 4.3 AC.
 VOL. REQ. = 4.3 x 1800 = 7740 CF
 VOL. PROV. = 8000 CF
 SIZE 40' x 50' x 4'
 BOTT. TRAP 500.5
 TOP EMBANKMENT = 506.5
 CHEST S.O.S. = 505.5
 LENGTH S.O.S. = 18'
 CLEANOUT AT ELEV. 502.5

APPROVED:
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
John M. Taylor 9/17/76
 CHIEF, LAND DEVELOPMENT DIVISION
Drayville W. Clemons 8/17/76
 CHIEF, BUREAU OF HIGHWAYS
William S. Kelly 8-31-76
 CHIEF, BUREAU OF ENGINEERING

APPROVED
 DEPT. OF PLANNING & ZONING
David W. Taylor 7/21/76
 CHIEF, DIVISION OF COMMUNITY
 PLANNING & LAND DEVELOPMENT

Reviewed for HOWARD S.C.D. and meets Technical Requirements

U.S. Soil Conservation Service
 THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT
Robert W. Zehm 8/13/76
 HOWARD S.C.D. Date

By the Engineer:
 "I 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 requirements of the Howard Soil Conservation District."
Charles L. Cole 9/13/76
 Signature of Engineer Date

By the Developer:
 "I/We certify that all development and construction will be done according to this plan, and that any responsible personnel involved in the construction project will have a Certificate of Attendance at the 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 by the Howard Soil Conservation District."
Conrad S. Carter 9/13/76
 Signature of Developer Date



COUNTRY SPRINGS
 LOTS 1-42
 ELECTION DISTRICT 4
 SEDIMENT CONTROL
 PLAN

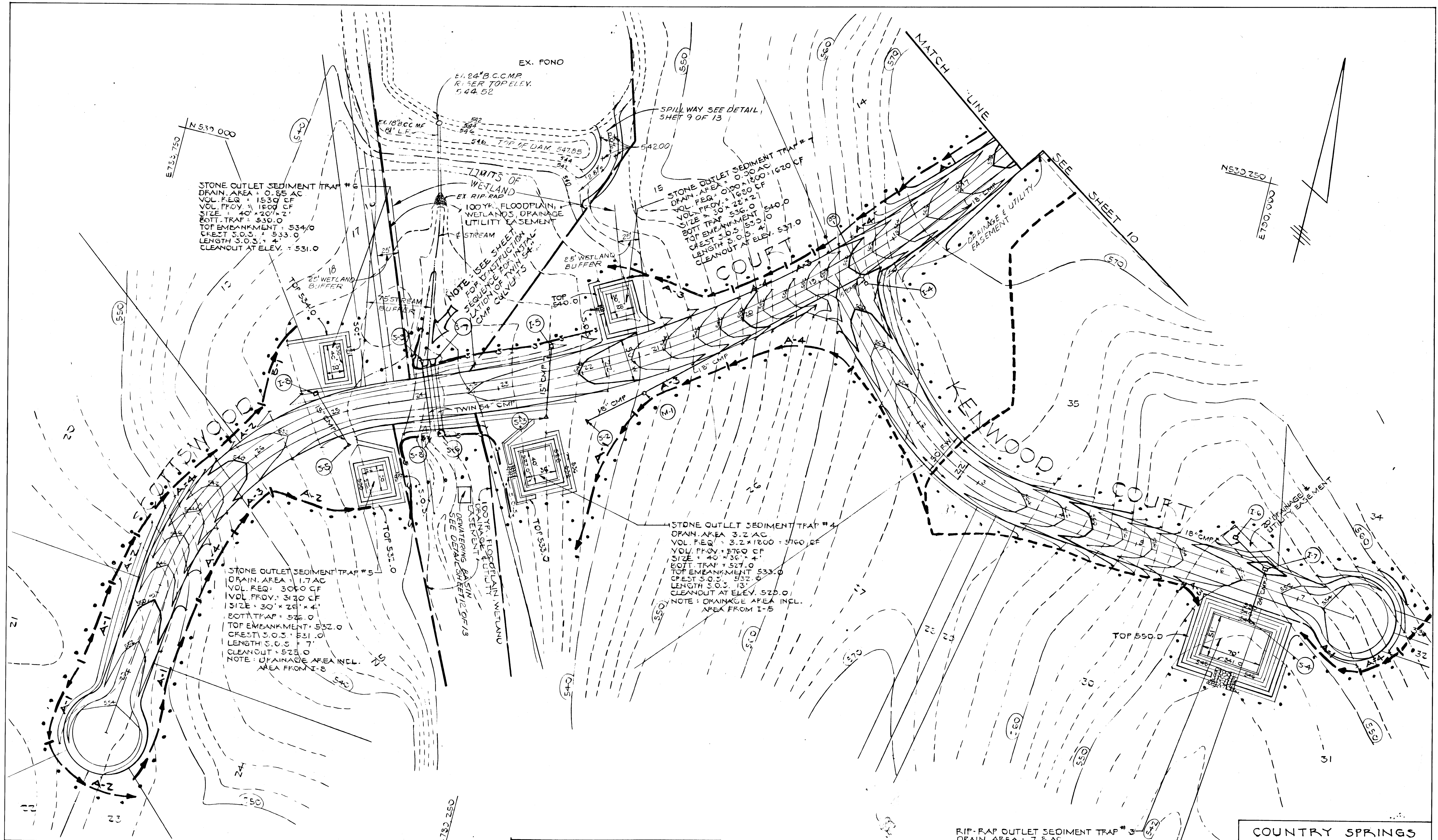
OWNER AND DEVELOPER
CARMAN ASSOCIATES
 P.O. BOX 122
 ELLICOTT CITY, MD. 21043

SCALE: 1" = 50' DATE 5-18-89 DWG. NO. 10 OF 13
 DES. DB DRN. DB CHK. CC

FISHER, COLLINS AND CARTER, INC.
 CIVIL ENGINEERS AND LAND SURVEYORS
 8388 COURT AVE. ELLICOTT CITY, MARYLAND 21043

1561

AS-BUILT 3/27/77 F90-59



STONE OUTLET SEDIMENT TRAP #6
 DRAIN. AREA: 0.85 AC
 VOL. REQ: 1530 CF
 VOL. PROJ: 1500 CF
 SIZE: 40' x 20' x 4'
 BOT. TRAP: 530.0
 TOP EMBANKMENT: 534.0
 CREST S.O.S.: 533.0
 LENGTH S.O.S.: 4'
 CLEANOUT AT ELEV.: 531.0

STONE OUTLET SEDIMENT TRAP #5
 DRAIN. AREA: 1.7 AC
 VOL. REQ: 3060 CF
 VOL. PROJ: 3120 CF
 SIZE: 30' x 28' x 4'
 BOT. TRAP: 526.0
 TOP EMBANKMENT: 532.0
 CREST S.O.S.: 531.0
 LENGTH S.O.S.: 7'
 CLEANOUT: 523.0
 NOTE: DRAINAGE AREA INCL. AREA FROM I-8

STONE OUTLET SEDIMENT TRAP #4
 DRAIN. AREA: 3.2 AC
 VOL. REQ: 5760 CF
 VOL. PROJ: 5760 CF
 SIZE: 40' x 36' x 4'
 BOT. TRAP: 527.0
 TOP EMBANKMENT: 533.0
 CREST S.O.S.: 532.0
 LENGTH S.O.S.: 13'
 CLEANOUT AT ELEV.: 525.0
 NOTE: DRAINAGE AREA INCL. APEX FROM I-5

RIP-RAP OUTLET SEDIMENT TRAP #3
 DRAIN. AREA: 7.8 AC
 VOL. REQ: 7.8 x 1800 = 14,040 CF
 VOL. PROJ: 14,280 CF
 SIZE: 70' x 51' x 4'
 CREST WELP: 546.0
 TOP EMBANKMENT: 550.0
 BOT. TRAP: 541.00
 LENGTH S.O.S.: 10'
 DEPTH OF STONE CHANNEL: 3.0'
 CLEANOUT @ ELEV. 543.0

APPROVED:
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
Glenn M. Soyars 9/1/90
 CHIEF, LAND DEVELOPMENT DIVISION
Debra W. Welland 9/17/90
 CHIEF, BUREAU OF HIGHWAYS
William E. Papp 8-31-90
 CHIEF, BUREAU OF ENGINEERING
 APPROVED
 DEPT. OF PLANNING & ZONING
Mark J. Karyck 9/1/90
 CHIEF, DIVISION OF COMMUNITY PLANNING & LAND DEVELOPMENT

Reviewed for HOWARD S.C.D. and meet Ecological Requirements
James H. Helm 8/3/90
 District Soil Conservation Officer
 THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT
Richard Z. Jahn 8/3/90
 District Soil Conservation Officer

By the Engineer:
 "I 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 requirements of the Howard Soil Conservation District."
John C. Smith 9/1/90
 Signature of Engineer Date

By the Developer:
 "I/We certify that all development and construction will be done 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 per #10 on-site inspection by the Howard Soil Conservation District."
James H. Helm 9/1/90
 Signature of Developer Date

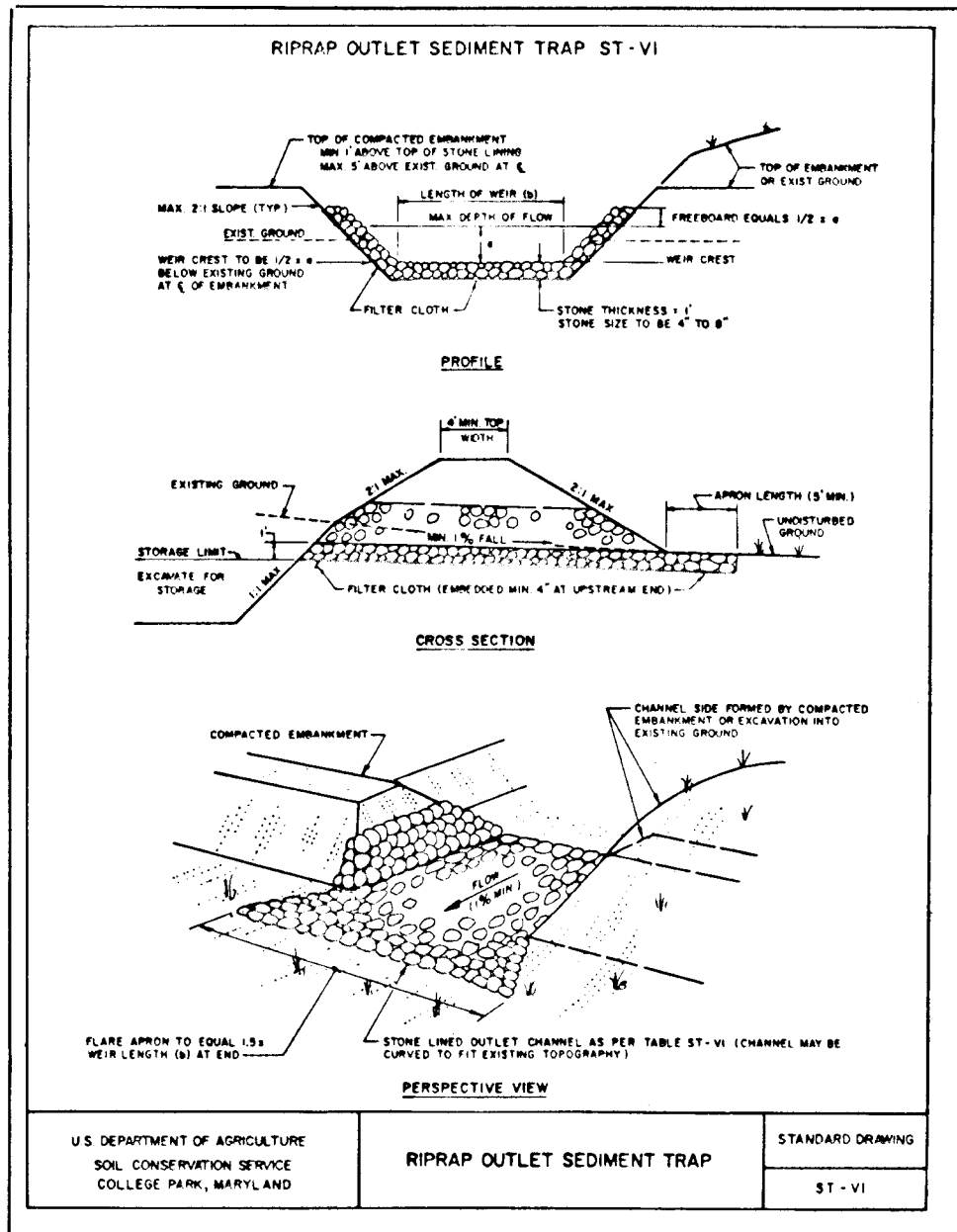
REVISED BY M.Y. 10/11/91
 ADDED BS-1 RELOCATED
 I-4 PIPE M-1 TO I-3



COUNTRY SPRINGS
 LOTS 1-42
 ELECTION DISTRICT 4
 SEDIMENT CONTROL
 PLAN
 OWNER AND DEVELOPER:
 CARMAN ASSOCIATES
 P.O. BOX 122
 ELLICOTT CITY, MD. 21043
 SCALE: 1" = 50' DATE: 5-18-89 DWG. NO. 11 OF 13
 DES. DB. DWN. DB. CHK. CC
 FISHER, COLLINS AND CARTER, INC.
 CIVIL ENGINEERS AND LAND SURVEYORS
 8388 COURT AVE. ELLICOTT CITY, MARYLAND 21043

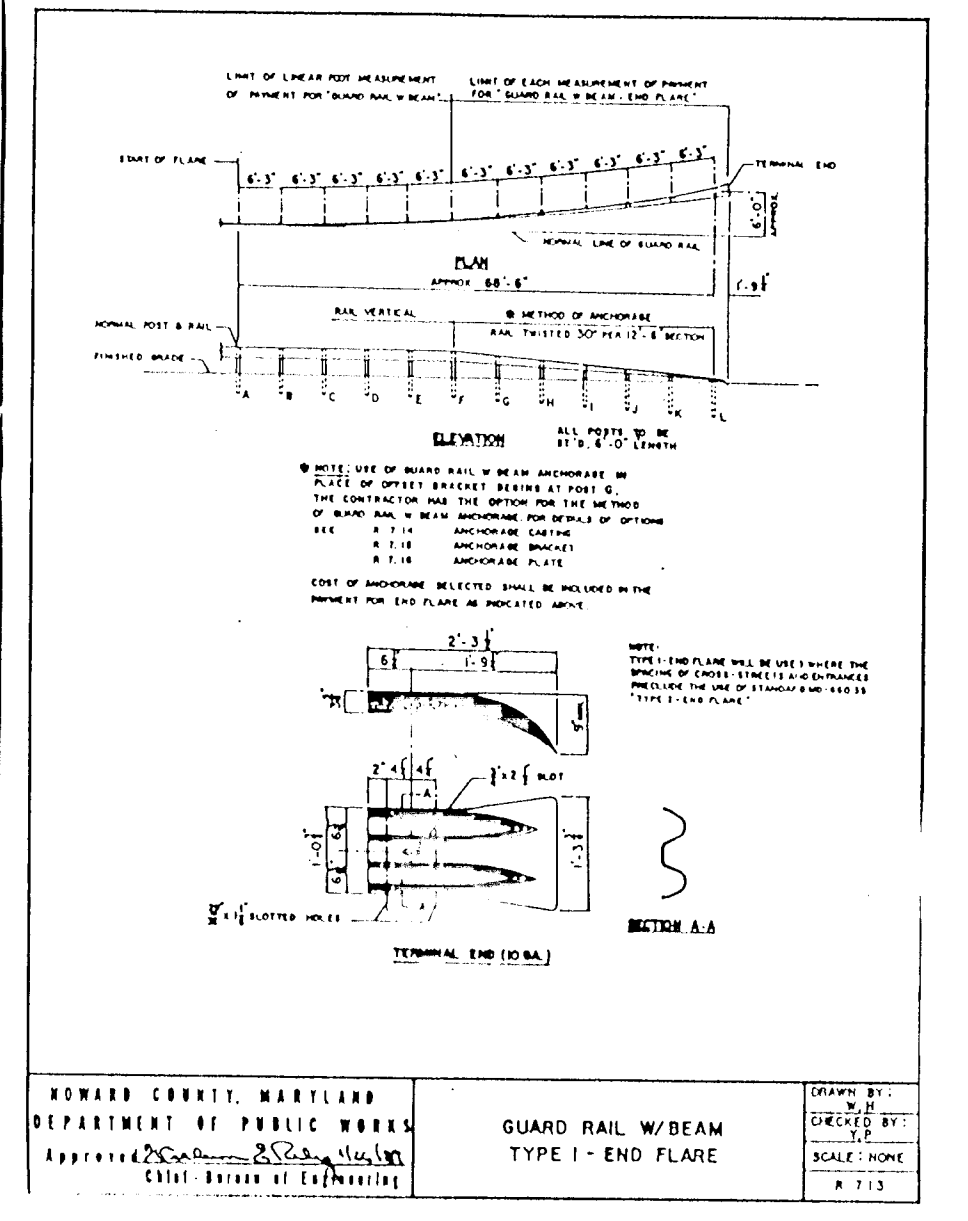
AS-BUILT 3/21/92 F90-59A

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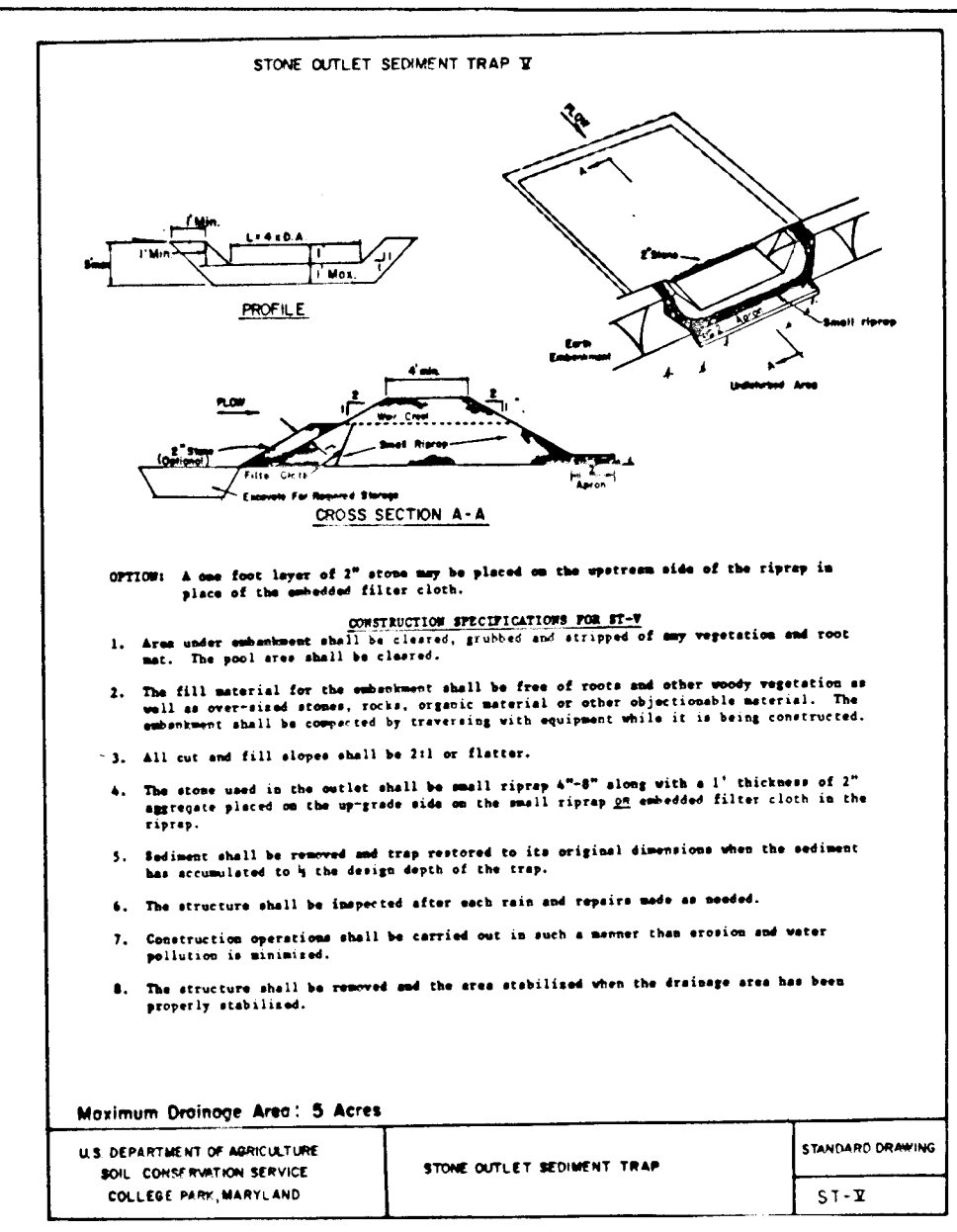


CONSTRUCTION SPECIFICATIONS FOR ST-VI

- The area under embankment shall be cleared, grubbed and stripped of any vegetation and root mat. The pool area shall be cleared.
- The fill material for the embankment shall be free of roots and other woody vegetation as well as oversized stones, rocks, organic material or other objectionable material. The embankment shall be compacted by traversing with equipment while it is being constructed. Maximum height of embankment shall be five (5) feet, measured at centerline of embankment.
- All fill slopes shall be 2:1 or flatter; cut slopes 1:1 or flatter.
- Elevation of the top of any dike directing water into trap must equal or exceed the height of embankment.
- Storage area provided shall be figured by computing the volume available behind the outlet channel up to an elevation of one (1) foot below the level water crest.
- Filter cloth shall be placed over the bottom and sides of the outlet channel prior to placement of stones. Sections of fabric must overlap at least one (1) foot with section nearest the entrance placed on top. Fabric shall be embedded at least six (6) inches into existing ground at entrance of outlet channel.
- Stone used in the outlet channel shall be four (4) to eight (8) inches (riprap). To provide a filtering effect, a layer of filter cloth shall be embedded one (1) foot back into the upstream face of the outlet stone or a one (1) foot thick layer of two (2) inch or finer aggregate shall be placed on the upstream face of the outlet.
- Sediment shall be removed and trap restored to its original dimensions when the sediment has accumulated to 1/2 the design depth of the trap. Removed sediment shall be deposited in a suitable area and in such a manner that it will not erode.
- The structure shall be inspected after each rain and repaired as needed.
- Construction operations shall be carried out in such a manner that erosion and water pollution are minimized.
- The structure shall be removed and the area stabilized when the drainage area has been properly stabilized.
- Drainage area for this practice is limited to 15 acres or less.

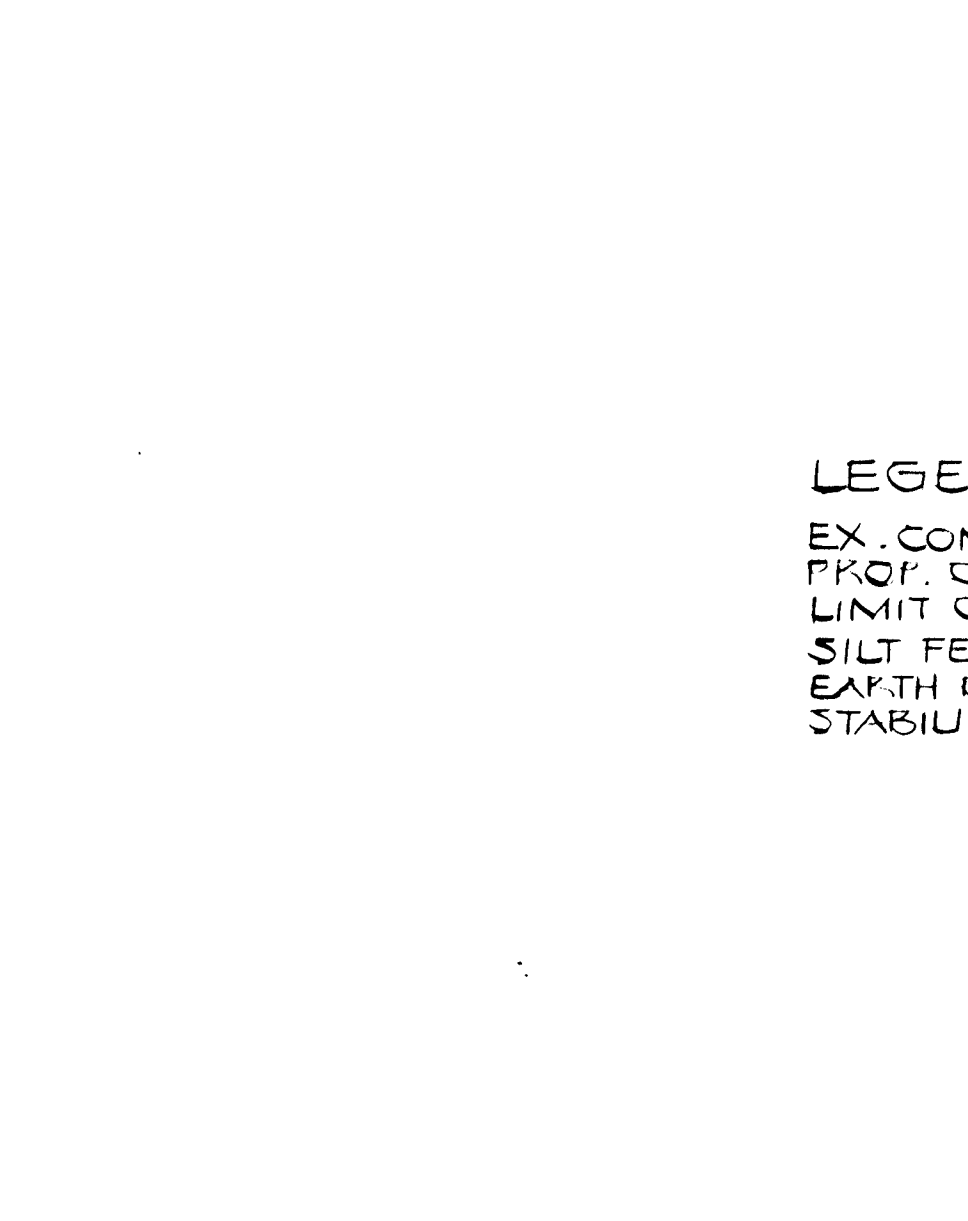


APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 COUNTY LAND DEVELOPMENT DIVISION
 DATE: 9/13/90
 APPROVED: BRUCE W. WELLS
 CHIEF, BUREAU OF HIGHWAYS
 DATE: 8-31-90
 APPROVED: DEPT. OF PLANNING & ZONING
 DATE: 5/21/90

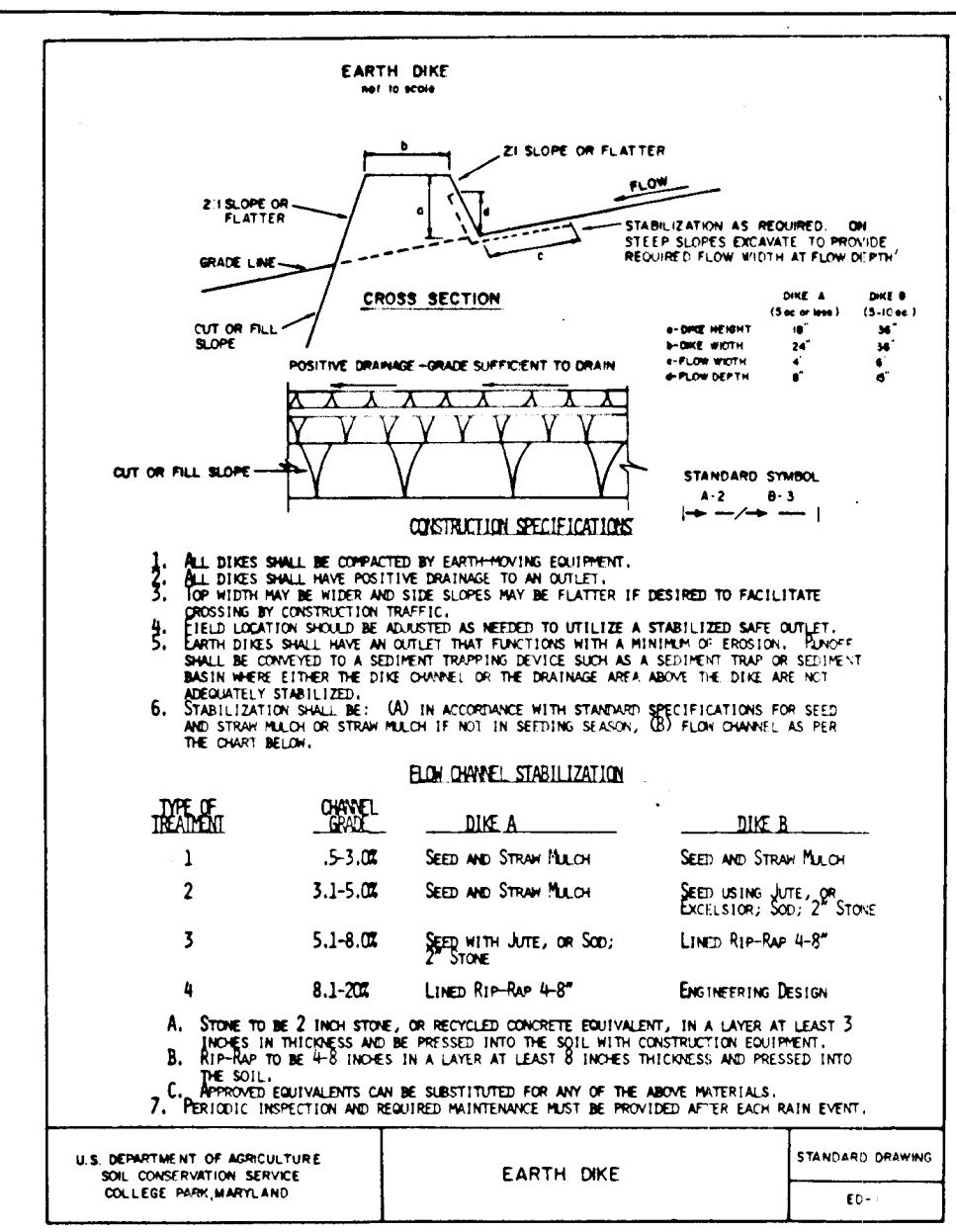


CONSTRUCTION SPECIFICATIONS FOR ST-VI

- Area under embankment shall be cleared, grubbed and stripped of any vegetation and root mat. The pool area shall be cleared.
- Fill material for the embankment shall be free of roots and other woody vegetation as well as oversized stones, rocks, organic material or other objectionable material. The embankment shall be compacted by traversing with equipment while it is being constructed. Maximum height of embankment shall be five (5) feet, measured at centerline of embankment.
- All fill slopes shall be 2:1 or flatter; cut slopes 1:1 or flatter.
- Stone used in the outlet shall be small riprap 4" to 8" along with a 1" thickness of aggregate placed on the upstream side of the small riprap 2" embedded filter cloth in the stone.
- Sediment shall be removed and trap restored to its original dimensions when the sediment has accumulated to 1/2 the design depth of the trap.
- The structure shall be inspected after each rain and repaired as needed.
- Construction operations shall be carried out in such a manner that erosion and water pollution are minimized.
- The structure shall be removed and the area stabilized when the drainage area has been properly stabilized.

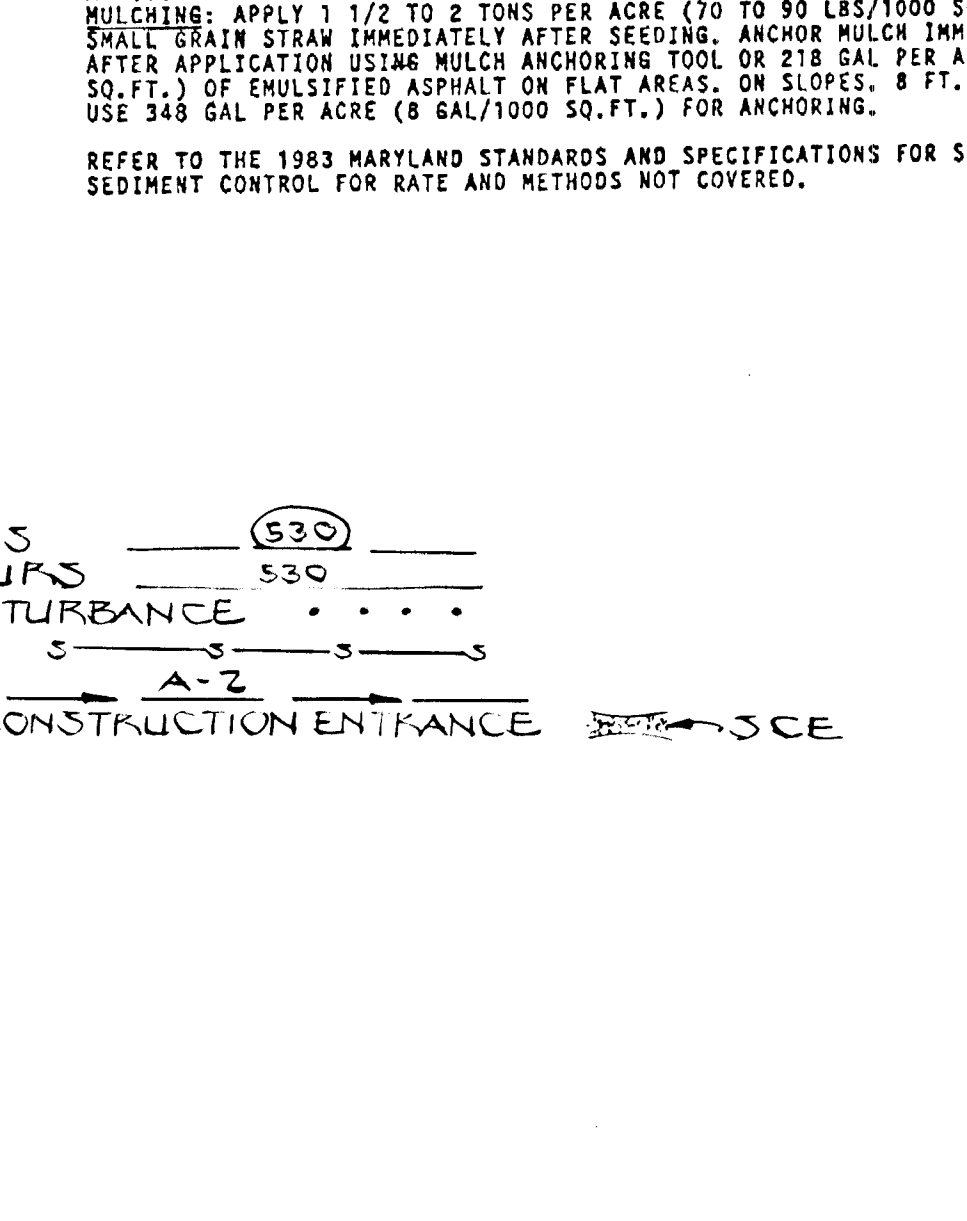


APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 COUNTY LAND DEVELOPMENT DIVISION
 DATE: 9/13/90
 APPROVED: BRUCE W. WELLS
 CHIEF, BUREAU OF HIGHWAYS
 DATE: 8-31-90
 APPROVED: DEPT. OF PLANNING & ZONING
 DATE: 5/21/90

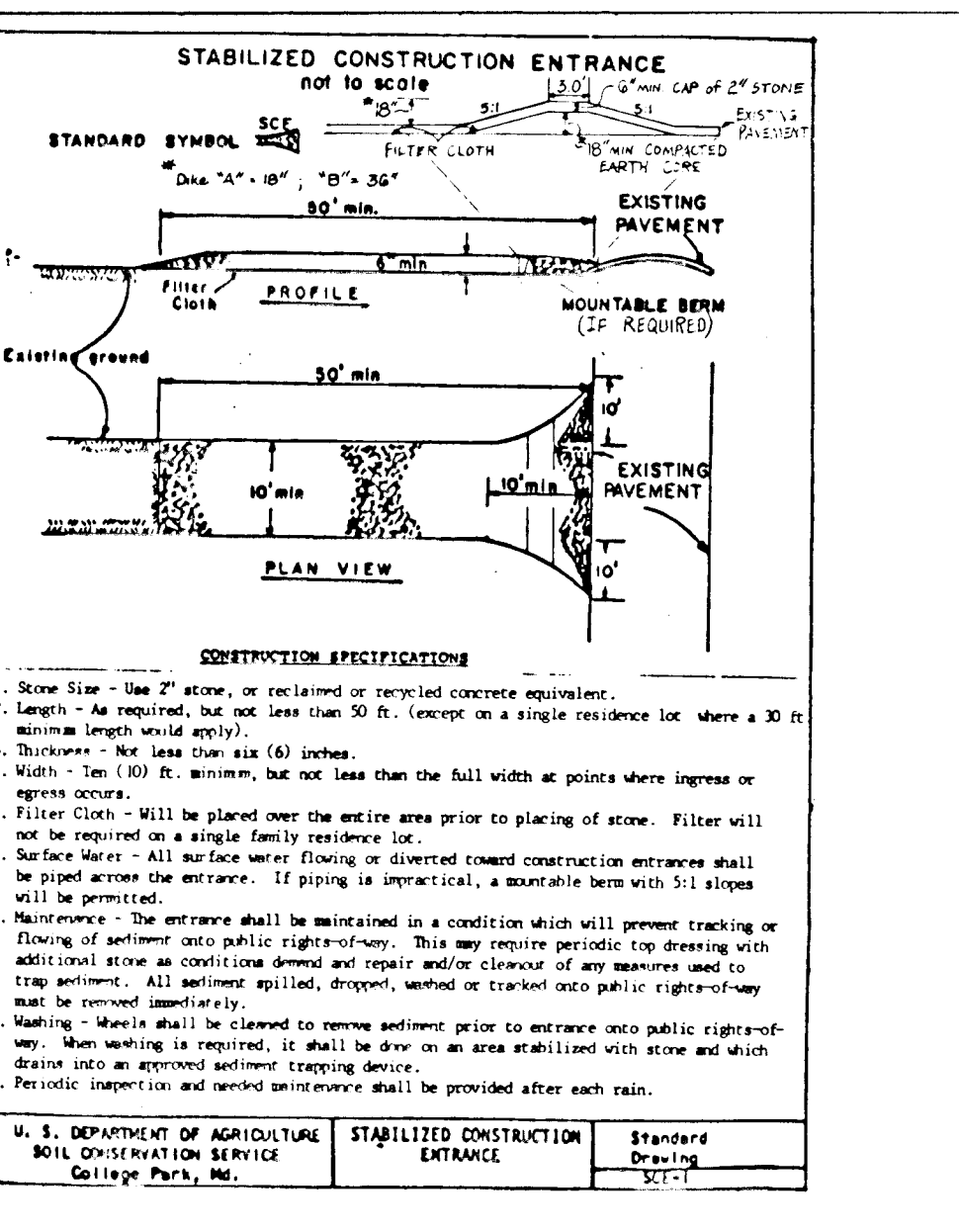


CONSTRUCTION SPECIFICATIONS FOR ST-VI

- Area under embankment shall be cleared, grubbed and stripped of any vegetation and root mat. The pool area shall be cleared.
- Fill material for the embankment shall be free of roots and other woody vegetation as well as oversized stones, rocks, organic material or other objectionable material. The embankment shall be compacted by traversing with equipment while it is being constructed. Maximum height of embankment shall be five (5) feet, measured at centerline of embankment.
- All fill slopes shall be 2:1 or flatter; cut slopes 1:1 or flatter.
- Stone used in the outlet shall be small riprap 4" to 8" along with a 1" thickness of aggregate placed on the upstream side of the small riprap 2" embedded filter cloth in the stone.
- Sediment shall be removed and trap restored to its original dimensions when the sediment has accumulated to 1/2 the design depth of the trap.
- The structure shall be inspected after each rain and repaired as needed.
- Construction operations shall be carried out in such a manner that erosion and water pollution are minimized.
- The structure shall be removed and the area stabilized when the drainage area has been properly stabilized.

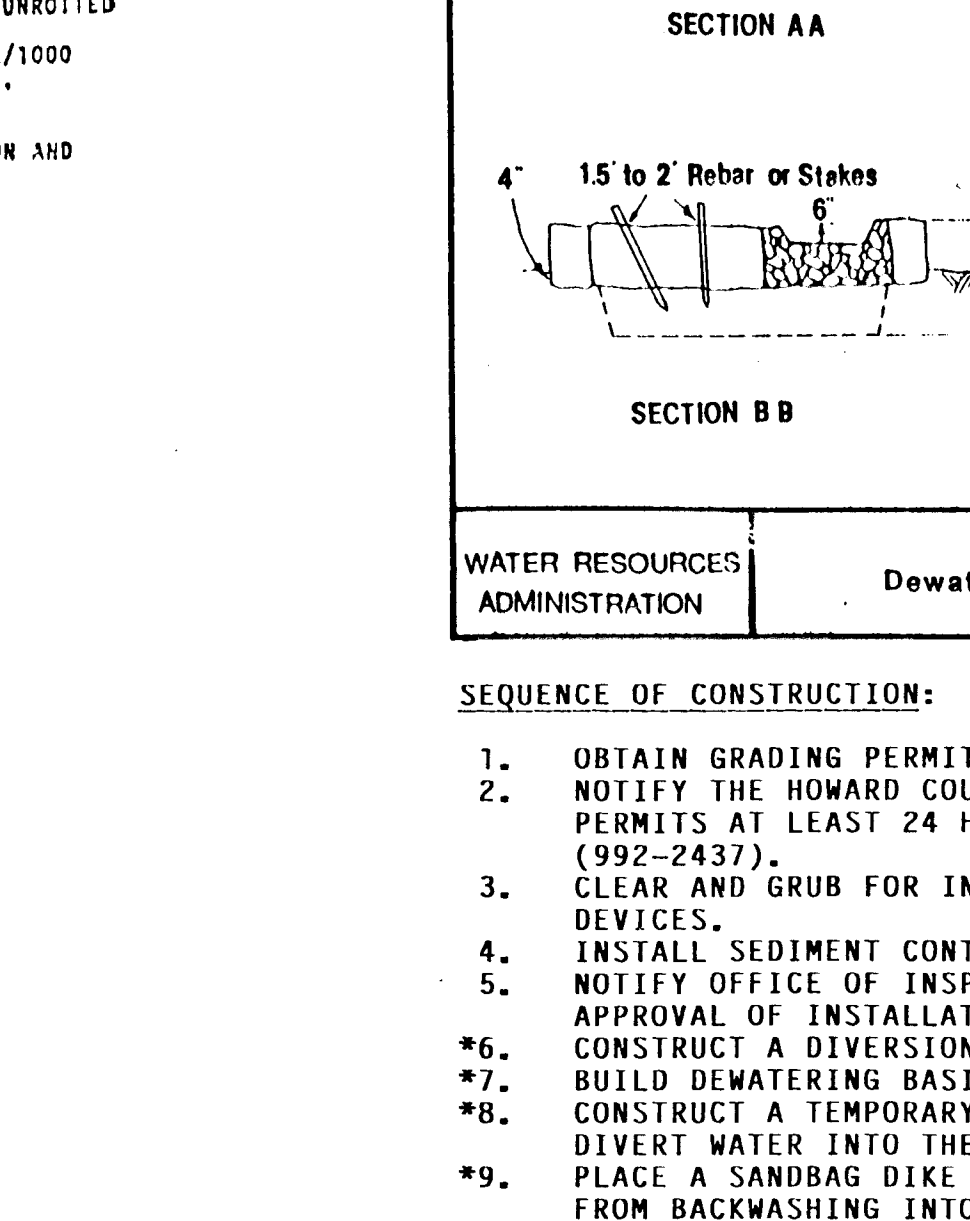


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 COUNTY LAND DEVELOPMENT DIVISION
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 APPROVED: BRUCE W. WELLS
 CHIEF, BUREAU OF HIGHWAYS
 DATE: 8-31-90
 APPROVED: DEPT. OF PLANNING & ZONING
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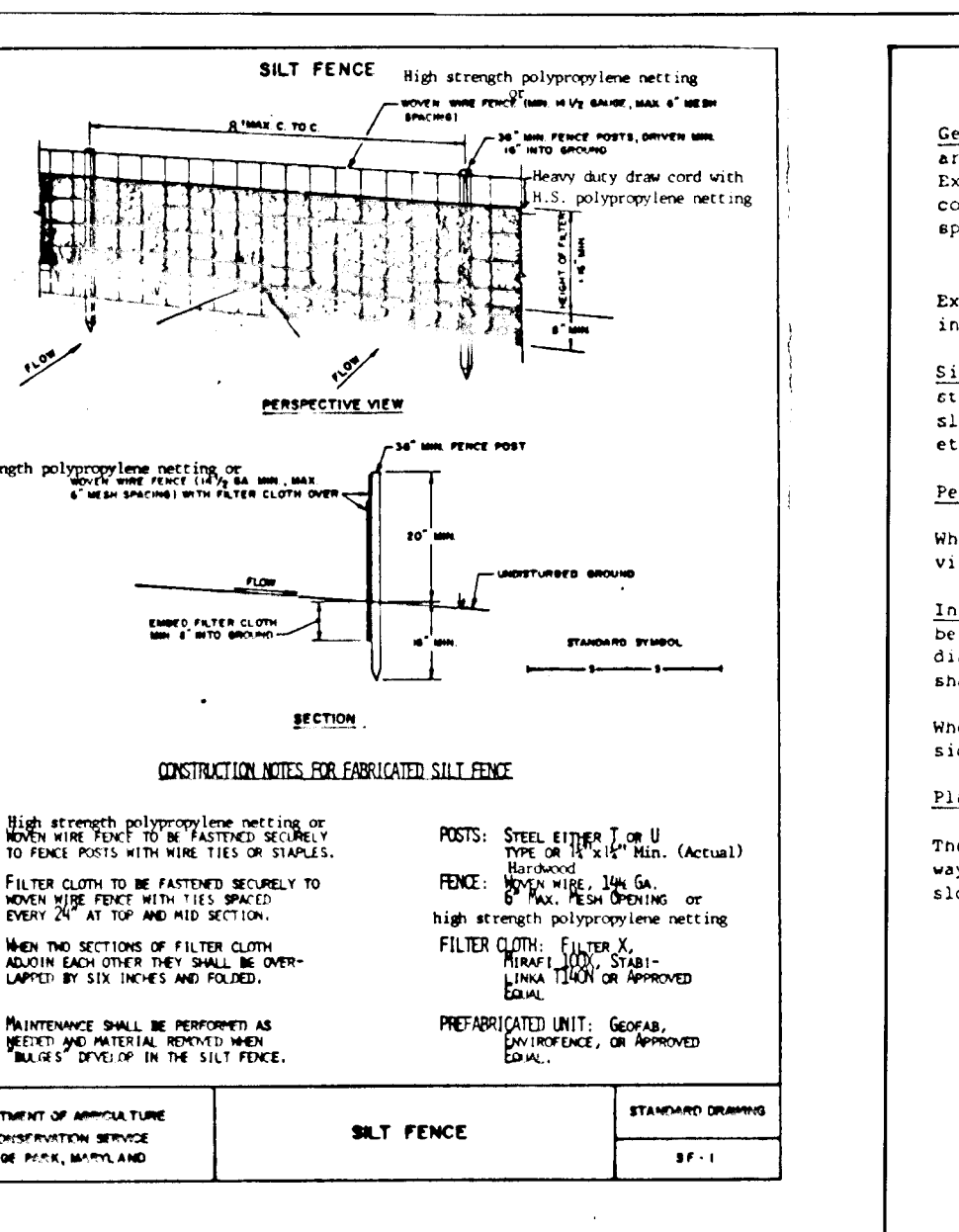


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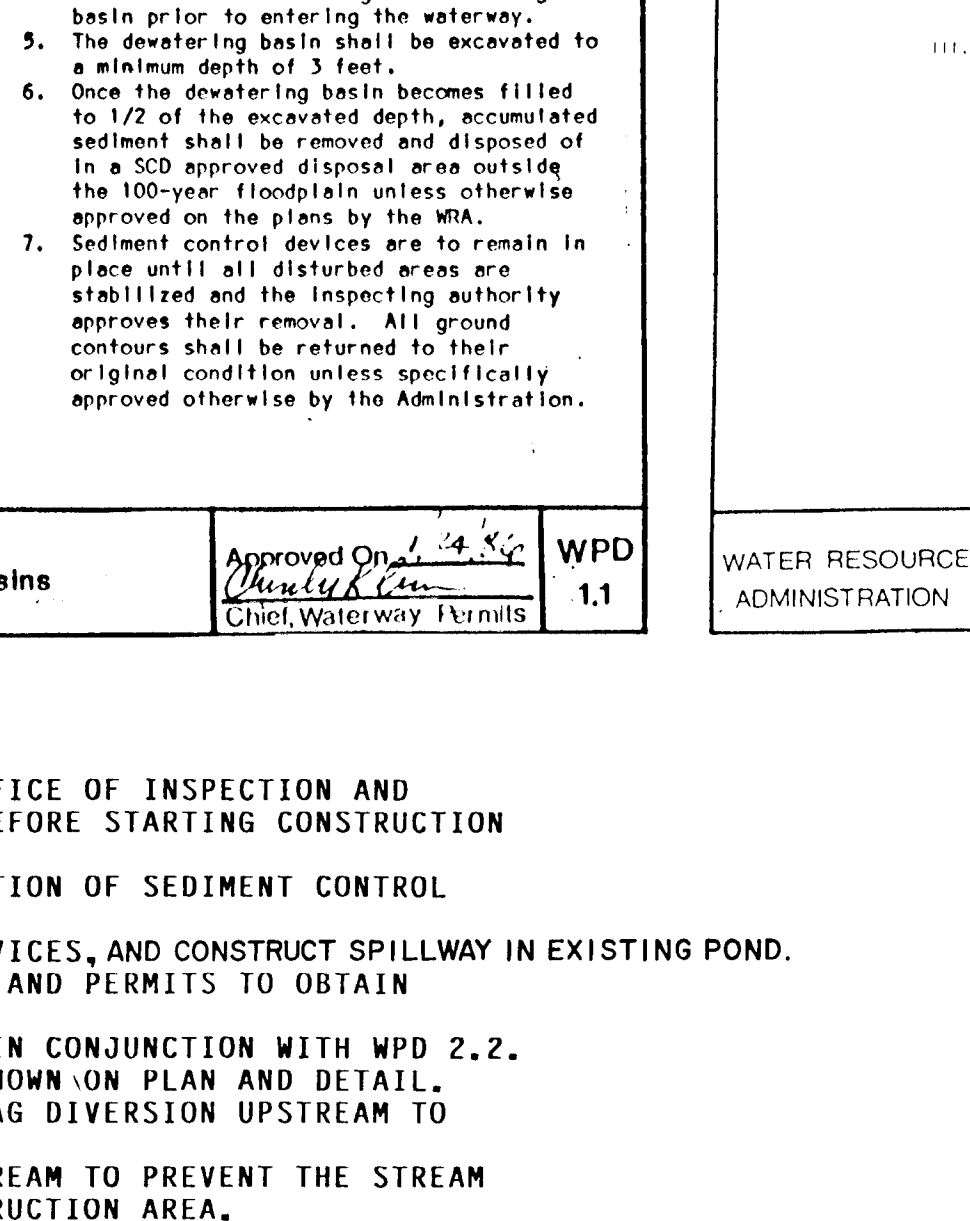


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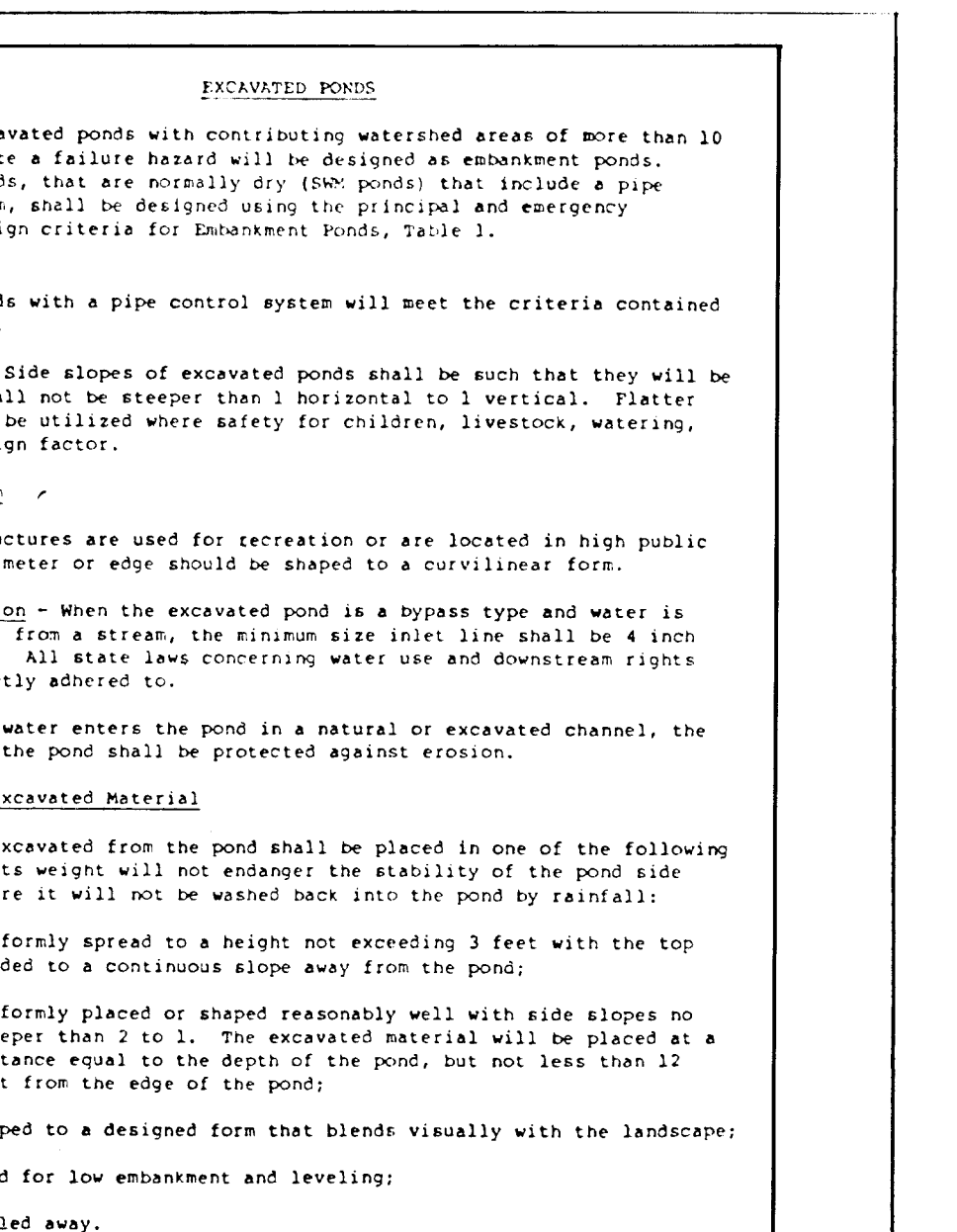


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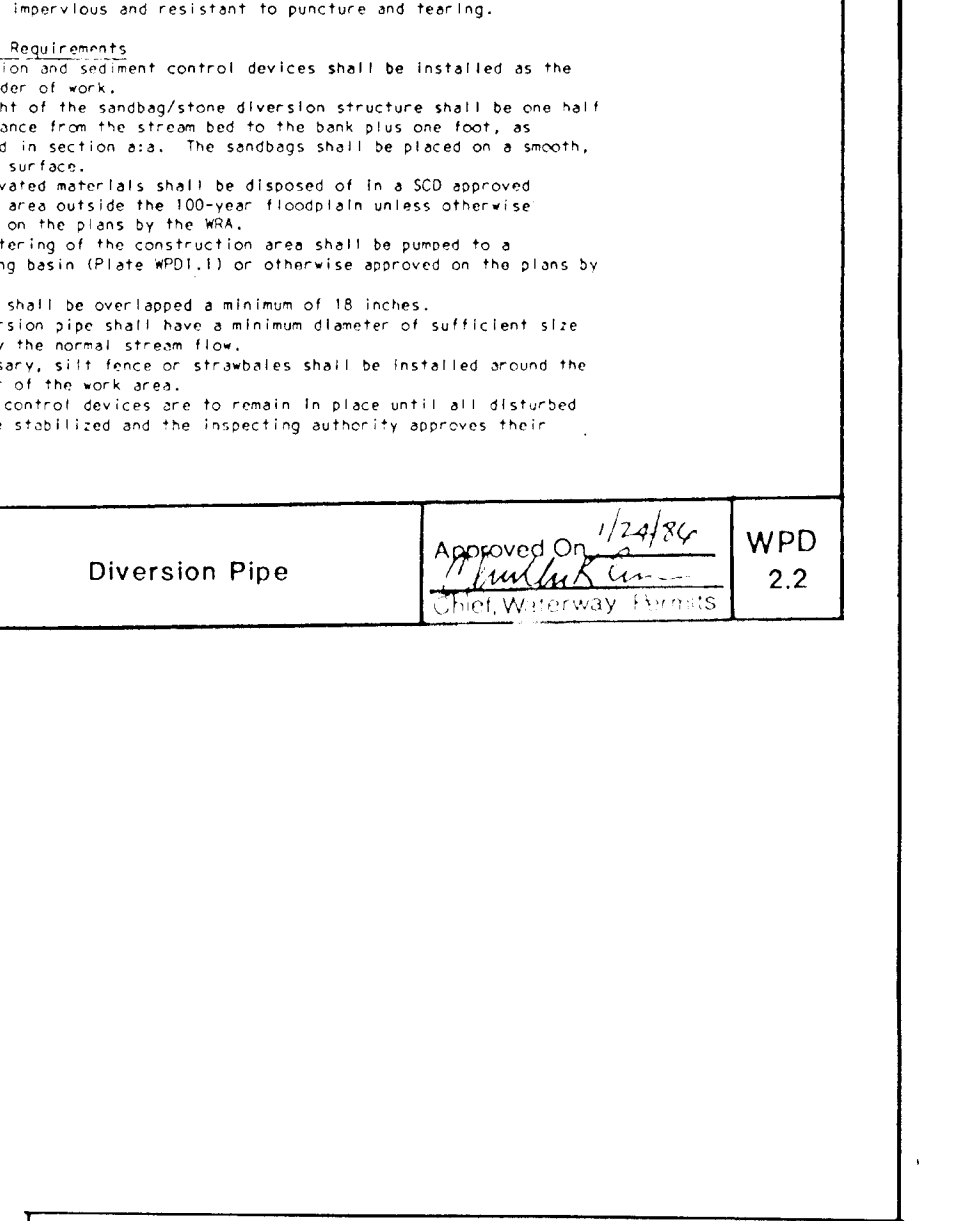


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PERMANENT SEEDING NOTES:
 APPLY TO GRADED OR CLEARED AREA NOT SUBJECT TO IMMEDIATE FURTHER DISTURBANCE WHERE A PERMANENT LONG-LIVED VEGETATIVE COVER IS NEEDED.

SEEDING PREPARATION: LOOSEN UPPER THREE-INCHES OF SOIL BY RAKING, DISCING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING. IF NOT PREVIOUSLY LOOSENED, SOIL AMENDMENTS IN LIEU OF SOIL TEST RECOMMENDATIONS, USE ONE OF THE FOLLOWING SCHEDULES:

- PREFERRED - APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE (92 LBS/1000 SQ. FT.) AND 600 LBS PER ACRE 10-10-10 FERTILIZER (14 LBS/1000 SQ. FT.) BEFORE SEEDING.
- ACCEPTABLE - APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE (92 LBS/1000 SQ. FT.) AND 1000 LBS. PER ACRE 10-10-10 FERTILIZER (23 LBS./1000 SQ. FT.) BEFORE SEEDING.

SEEDING: FOR PERIODS MARCH 1 THRU APRIL 30, AND AUGUST 1 THRU OCTOBER 15, SEED WITH 60 LBS. PER ACRE (1.4 LBS/1000 SQ. FT.) OF KENTUCKY 31 TALL FESCUE. FOR THE PERIOD MAY 1 THRU JULY 31, SEED WITH 60 LBS. KENTUCKY 31 TALL FESCUE PER ACRE AND 2 LBS. PER ACRE (.05 LBS/1000 SQ. FT.) OF WEEPING LOVEGRASS. DURING THE PERIOD OF OCTOBER 16 THRU FEBRUARY 28, PROTECT SITE BY: OPTION (1) 2 TONS PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING. OPTION (2) USE SOD. OPTION (3) SEED WITH 60 LBS./ACRE KENTUCKY 31 TALL FESCUE AND MULCH WITH 2 TONS/ACRE WILL ANCHORED STRAW.

MULCHING: APPLY 1 1/2 TO 2 TONS PER ACRE (70 TO 90 LBS./1000 SQ. FT.) OF UNROTTED SMALL GRAIN STRAW IMMEDIATELY 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 NECESSARY REPAIRS, REPLACEMENTS AND RESEEDINGS.

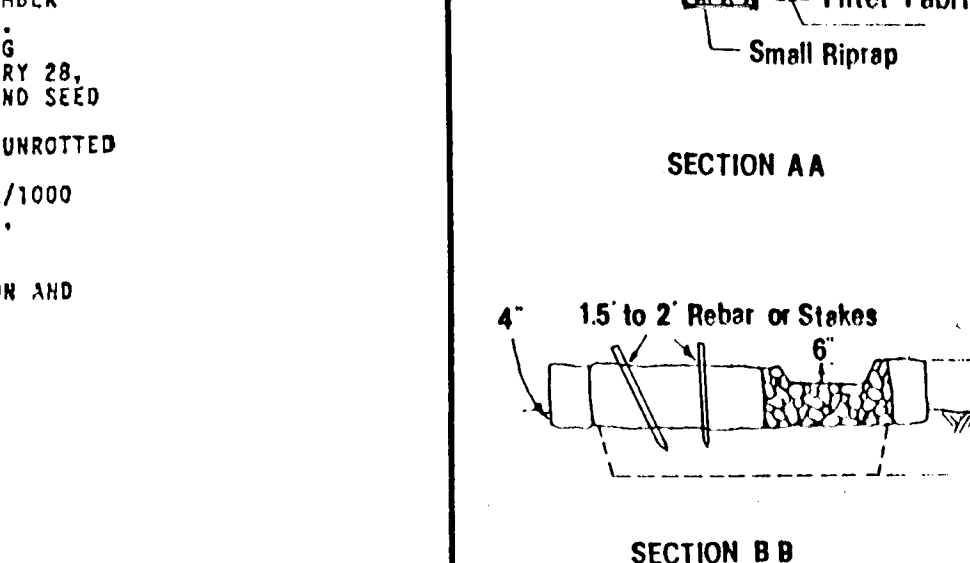
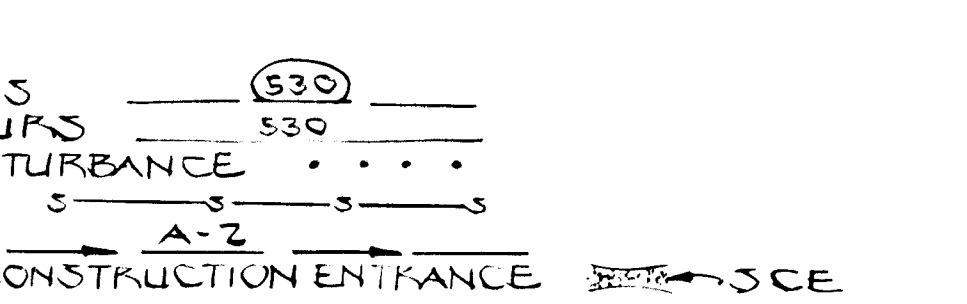
TEMPORARY SEEDING NOTES:
 APPLY TO GRADED OR CLEARED AREAS LIKELY TO BE REDISTURBED WHERE A SHORT-TERM VEGETATIVE COVER IS NEEDED.

SEEDING PREPARATION: LOOSEN UPPER THREE-INCHES OF SOIL BY RAKING, DISCING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING. IF NOT PREVIOUSLY LOOSENED, SOIL AMENDMENTS: APPLY 600 LBS PER ACRE 10-10-10 FERTILIZER (14 LBS/1000 SQ. FT.) BEFORE SEEDING.

SEEDING: FOR PERIODS MARCH 1 THRU APRIL 30 AND FROM AUGUST 15 THRU NOVEMBER 15, SEED WITH 2 1/2 BUSHEL PER ACRE OF ANNUAL RYE (3.2 LBS/1000 SQ. FT.). FOR THE PERIOD MAY 1 THRU AUGUST 14, SEED WITH 3 LBS PER ACRE OF WEEPING LOVEGRASS (.07 LBS/1000 SQ. FT.). FOR THE PERIOD NOVEMBER 16 THRU FEBRUARY 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 SOD.

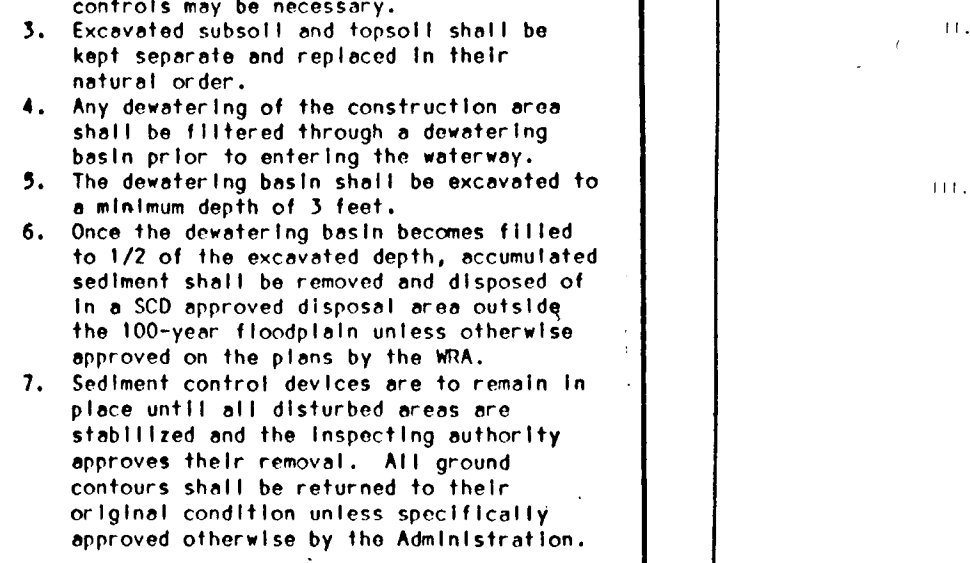
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REFER TO THE 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR RATE AND METHODS NOT COVERED.



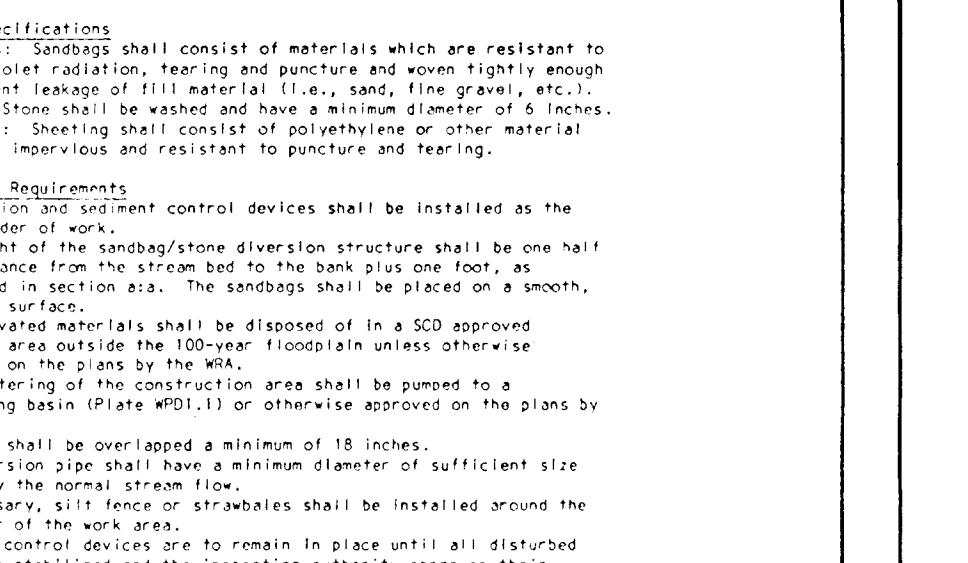
CONSTRUCTION REQUIREMENTS:

- The contractor shall install all sediment and erosion control devices as the first order of business.
- Excavated materials shall be stored such that sediment is prevented from entering the waterway, i.e., sediment perimeter controls may be necessary.
- Excavated subsoil and topsoil shall be kept separate and replaced in their natural order.
- Any dewatering of the construction area shall be filtered through a dewatering basin prior to entering the waterway.
- The dewatering basin shall be excavated to a minimum depth of 3 feet.
- Once the dewatering basin becomes filled to 1/2 of the excavated depth, accumulated sediment shall be removed and disposed of in a SCD approved disposal area outside the 100-year floodplain unless otherwise approved on the plans by the MDA.
- All dewatering of the construction area shall be placed in a dewatering basin (Plate WPD-1) or otherwise approved on the plans by the MDA.
- Sheeting shall be overlapped a minimum of 18 inches.
- The diversion pipe shall have a minimum diameter of sufficient size to cover the normal stream flow.
- If necessary, silt fence or straw bales shall be installed around the perimeter of the work area.
- Sediment control devices are to remain in place until all disturbed areas are stabilized and the inspecting authority approves their removal.



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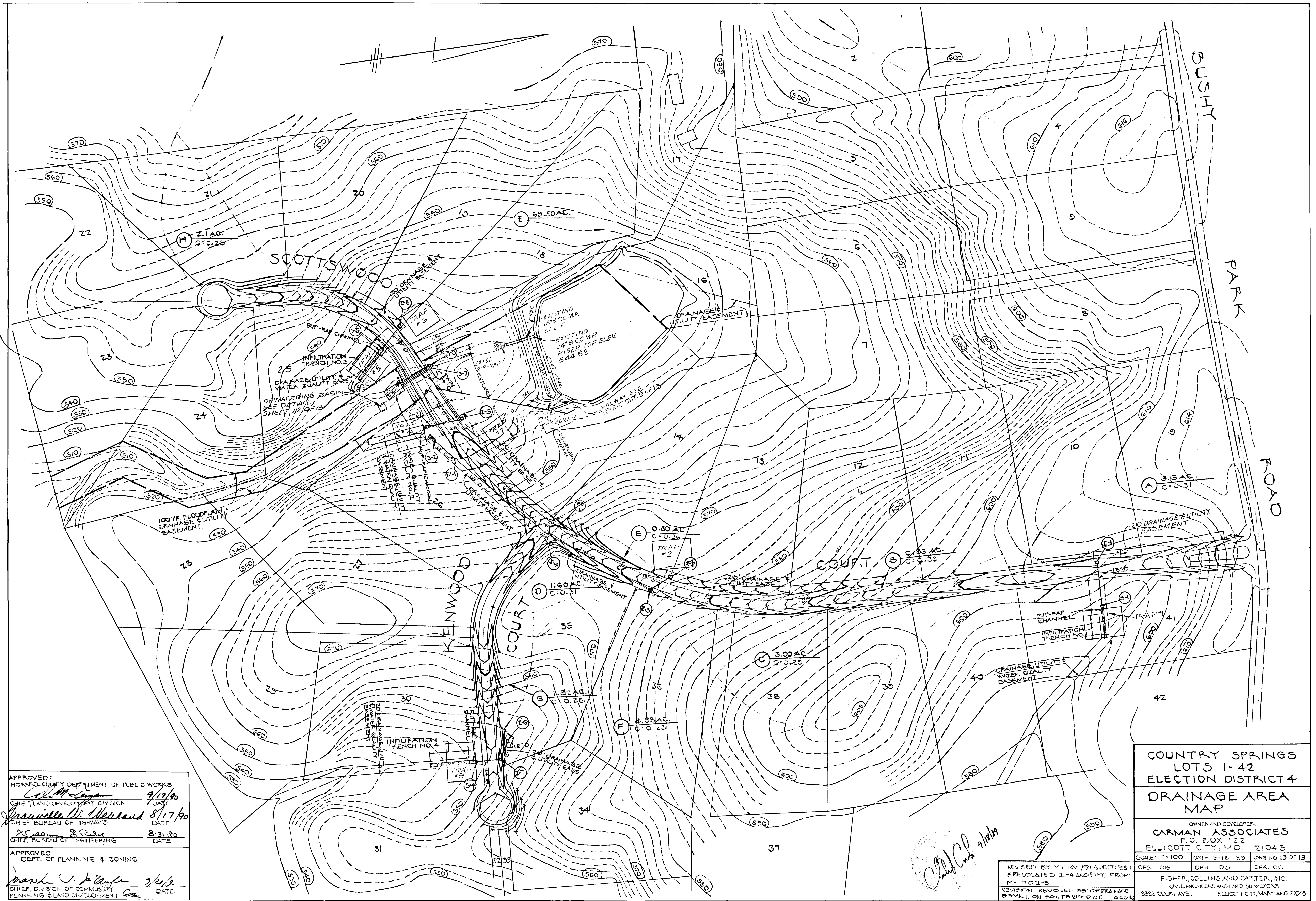
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APPROVED:
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
Col. M. J. ... 9/17/90
 CHIEF, LAND DEVELOPMENT DIVISION DATE
Shawville W. Cleveland 8/17/90
 CHIEF, BUREAU OF HIGHWAYS DATE
R. C. ... 8-31-90
 CHIEF, BUREAU OF ENGINEERING DATE
 APPROVED
 DEPT. OF PLANNING & ZONING
Mark S. ... 3/2/92
 CHIEF, DIVISION OF COMMUNITY PLANNING & LAND DEVELOPMENT DATE

COUNTRY SPRINGS
 LOTS 1-42
 ELECTION DISTRICT 4
 DRAINAGE AREA
 MAP

OWNER AND DEVELOPER:
 CARMAN ASSOCIATES
 P.O. BOX 122
 ELLICOTT CITY, MO. 21043

SCALE: 1"=100' DATE: 5-18-89 DWG. NO. 13 OF 13
 DES. DB. DRN. DB. CHK. CC

FISHER, COLLINS AND CARTER, INC.
 CIVIL ENGINEERS AND LAND SURVEYORS
 8388 COURT AVE. ELLICOTT CITY, MARYLAND 21045

REVISED BY MK 10/17/91 ADDED R51 & RELOCATED I-4 AND R1-C FROM M-1 TO I-3
 REVISION: REMOVED 55' OF DRAINAGE EASEMENT ON SCOTT'S WOOD CT. 6-22-92