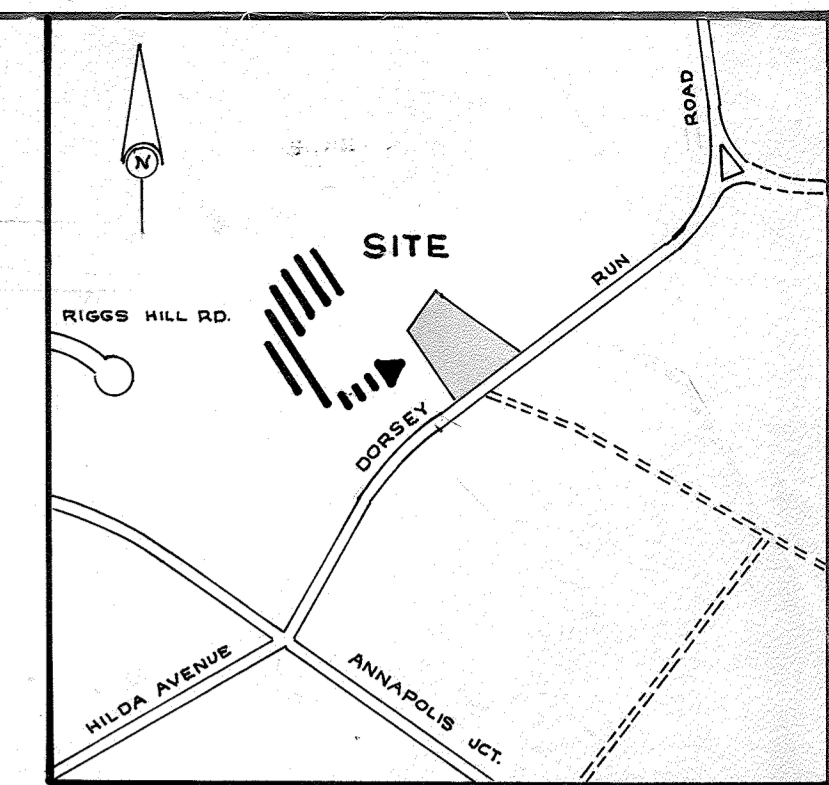


REVISION	
10' CURB OPENING AS SHOWN ON	6/20/10
EIGHT HAND SIDE OF THE DRAINING	6/22/10
BITUMINOUS CURB AND END	
CONCRETE CURB & GUTTER STARTS AT	
6" BITUMINOUS CURB	
ADD ROOF DRAIN	7/18/10
GATE ENTRANCE & CHAIN LINK FENCE	5-29-11
Mezzanine area added (GLW)	6/1/12

LANDSCAPE SCHEDULE					
SYMBOL	BOTANICAL NAME	COMMON NAME	QUANTITY	HEIGHT	CALIPER
⊕	ACERRUBRUM OCTGLOR	OCT GLORY REDMAPLE	12	12'-14'	2 - 2 1/2
⊗	PINUS STRIBUS	WHITE PINE	14	7'-9'	2 1/2 - 3 1/2



VICINITY MAP  
SCALE 1"=100'

GENERAL NOTES

- PRIOR TO THE START OF ANY CONSTRUCTION THE STAKE OUT ALL BASELINES, BUILDING LOCATION, AND CURBS, AND VERIFY OFFSETS AND SETBACKS.
- THE CONTRACTOR SHALL NOTIFY "MISS UTILITY" AT TELEPHONE NO. (301) 599-0100 AT LEAST 72 HOUR PRIOR TO STARTING EXCAVATION TO VERIFY ALL LOCATIONS OF EXISTING UTILITIES.
- ALL CONSTRUCTION SHALL BE ACCOMPLISHED IN ACCORDANCE WITH HOWARD COUNTY, DEPARTMENT OF PUBLIC WORK STANDARDS, SPECIFICATIONS, AND REQUIREMENTS.
- THE INFORMATION SHOWN ON THESE PLANS IS FOR THE CONVENIENCE OF THOSE CONCERNED ONLY. THE CORRECTNESS OR COMPLETENESS OF THE INFORMATION SHOWN IS NOT WARRANTED OR GUARANTEED. THE CONTRACTOR SHALL VERIFY ALL INFORMATION TO HIS OWN AND OWNERS' SATISFACTION.
- THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. HE AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.
- ALL DISTURBED AREAS NOT STABILIZED WITH PAVING, BUILDING, SODDING OF MULCH IN PLANTING AREAS SHALL BE SEEDED AND MULCH. BOUNDARY & TOPOGRAPHIC SURVEY FURNISHED BY T & T SURVEYING.

**PARKING DATA**

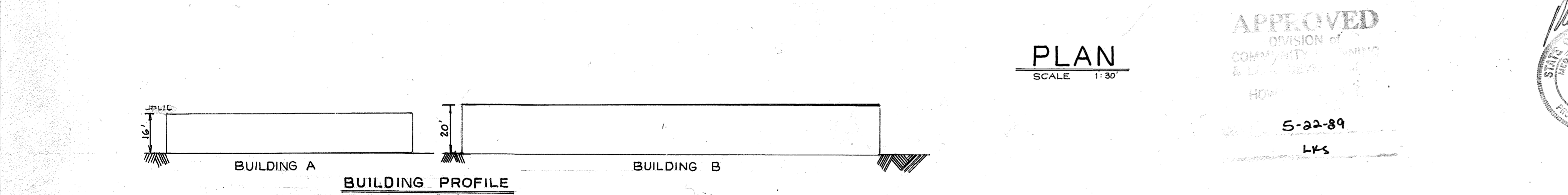
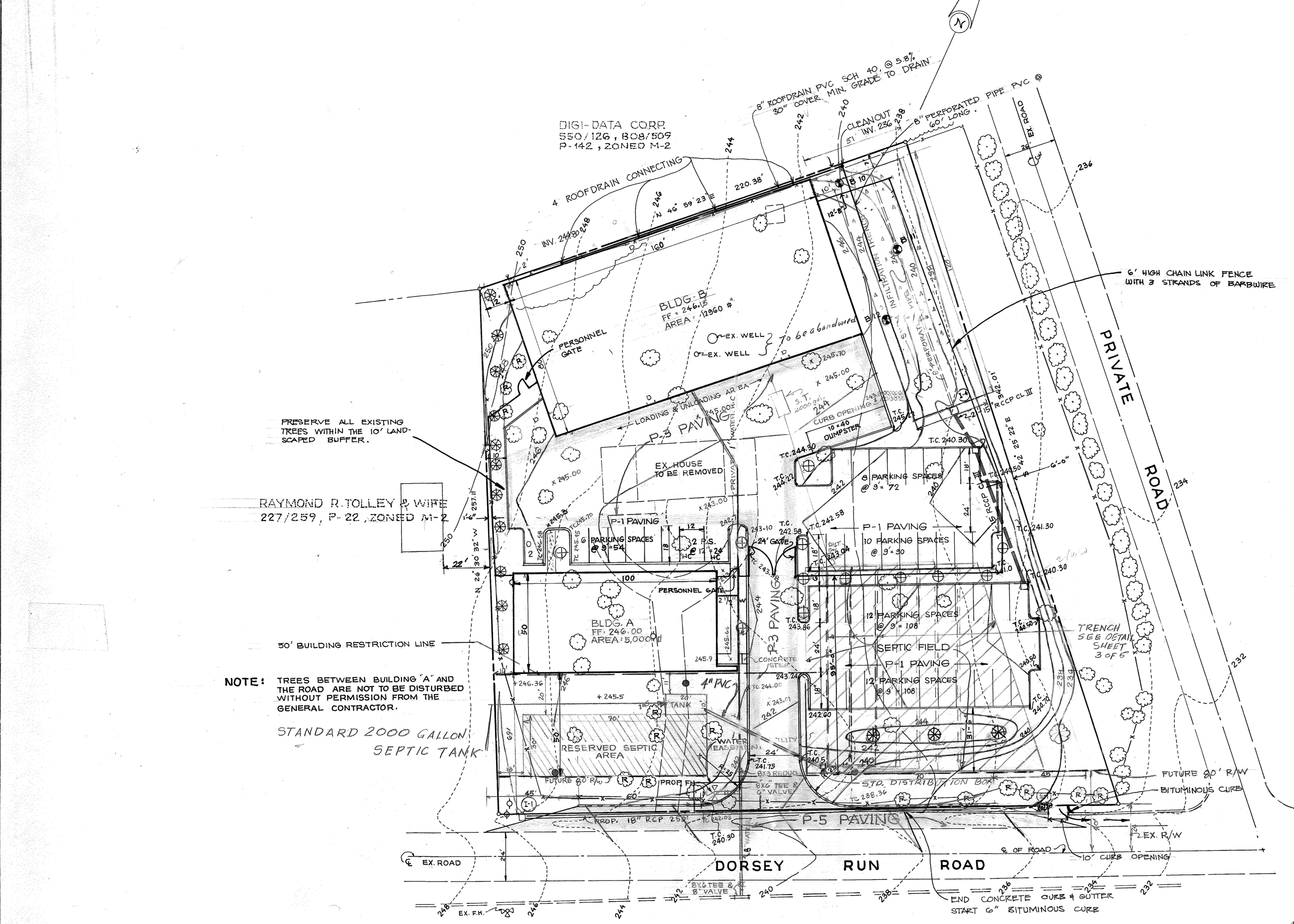
BUILDING "A"	= 5000 S.F.	OFFICE = 5,000 S.F. = 20 EMPLOYEES	OFFICE PARKING = 20 X 7/10 = 14 SPACES
BUILDING "B"	= 12800 S.F.	WAREHOUSE = 12800 S.F. = 26 EMPLOYEES	WAREHOUSE PARKING = 26/2 = 13 SPACES
TOTAL REQUIRED FOR BUILDING A & B = 27 SPACES		PARKING PROVIDED = 51 SPACES (INCLUDES 2 HANDICAPPED)	

**WAREHOUSE MEZZANINE**  
Area = 2,174 sq. ft.  
Note: mezzanine area does not add any new employees per letter from property owner dated 2/26/12.

**SITE ANALYSIS**

- AREA OF SITE = 1.8 ACRES
- MAXIMUM BUILDING HEIGHT = 30'
- ZONING = M-2, TAX MAP 48,
- OWNER = JEFF LILLY
- J&R ROOFING INC. 7798 JESSUP RD. JESSUP, MD. 20794
- SITE USE = OFFICE & WAREHOUSE
- DENSITY CALCULATIONS:

	AREA (S.F.)	% COVERAGE
A. SITE	= 78,408	22.9%
B. PROPOSED BUILDING	= 17,980	37.50%
C. PARKING LOT	= 29,405	8.32%
E. LANDSCAPE ISLANDS	= 2,447	8.32%
D. OPEN SPACE	= 27,956	35.66%



PLAN  
SCALE 1"=30'

APPROVED  
DIVISION OF COMMUNITY PLANNING & LAND DEVELOPMENT



For Revision only  
I hereby certify that these plans 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. 12075  
Expiration Date: May 16, 2024

EXISTING TREES TO REMAIN

**ADDRESS CHART**

LOT NO.	STREET ADDRESS
BLDG. A	8592 DORSEY RUN ROAD
BLDG. B	8590 DORSEY RUN ROAD

SUBDIVISION NAME	SECT./AREA	LOT/PARCEL #
J.R. DORSEY		
PLAT # OR L/F	BLOCK #	ZONE
397 / 578	8	M-2
TAX NO.	ELEC. DIST.	CENSUS TR.
48	2	6069
WATER CODE	SEWER CODE	
B02	N.A.	

APPROVED: DEPT. OF PLANNING AND ZONING  
7-20-11  
7-20-11  
7-20-11  
7-20-11

APPROVED DEPARTMENT OF PUBLIC WORKS AND STORM DRAINAGE SYSTEMS AND ROADS  
8-4-89  
8-4-89  
8-4-89

REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS  
7/18/89  
7/18/89  
7/18/89

ENGINEER'S CERTIFICATE  
I HEREBY 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 SOILS CONSERVATION DISTRICT.  
5-22-89

DEVELOPER'S CERTIFICATE  
I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND PLAN FOR EROSION AND SEDIMENT CONTROL AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT I ALSO AUTHORIZE PERIODIC ONSITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY.  
4/18/89

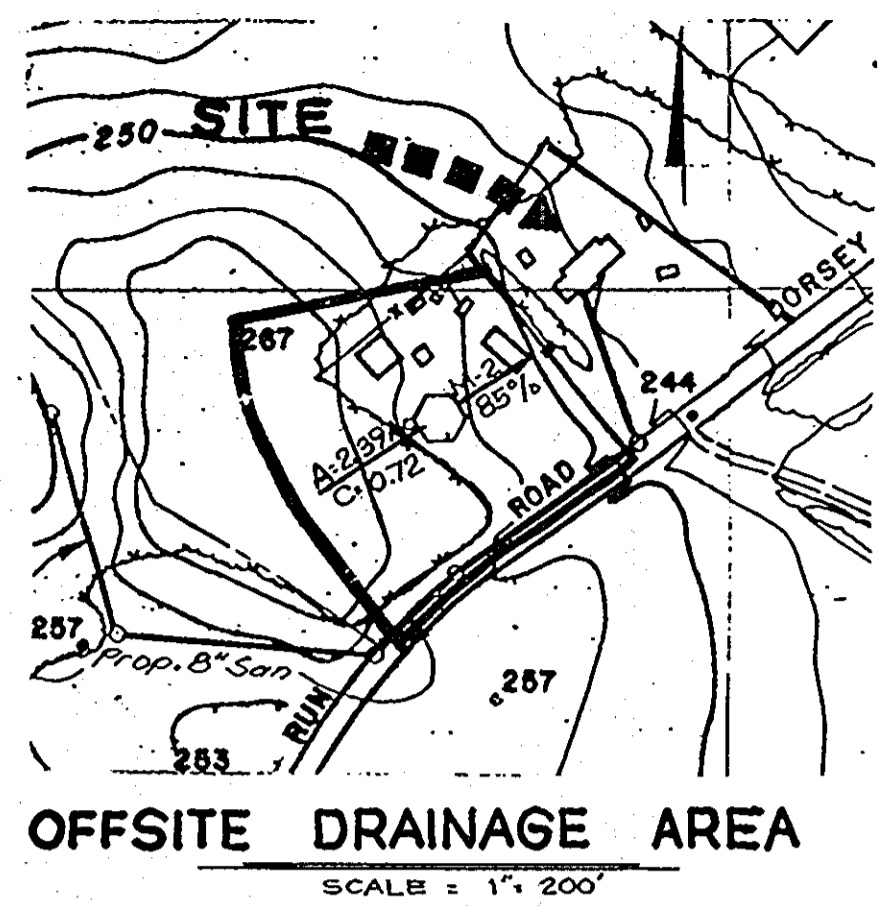
**LORIA ENGINEERING, INC.**  
ENGINEERS - PLANNERS - SURVEYORS  
250 BELLICOTT MILLS DRIVE  
ELLICOTT CITY, MD. 21043  
(301) 465-7777

**SITE DEVELOPMENT PLAN  
OFFICE & WAREHOUSE  
J & R DORSEY**  
6TH ELECTION DISTRICT, TAX MAP 48, PARCEL 113  
HOWARD COUNTY, MARYLAND, 20794

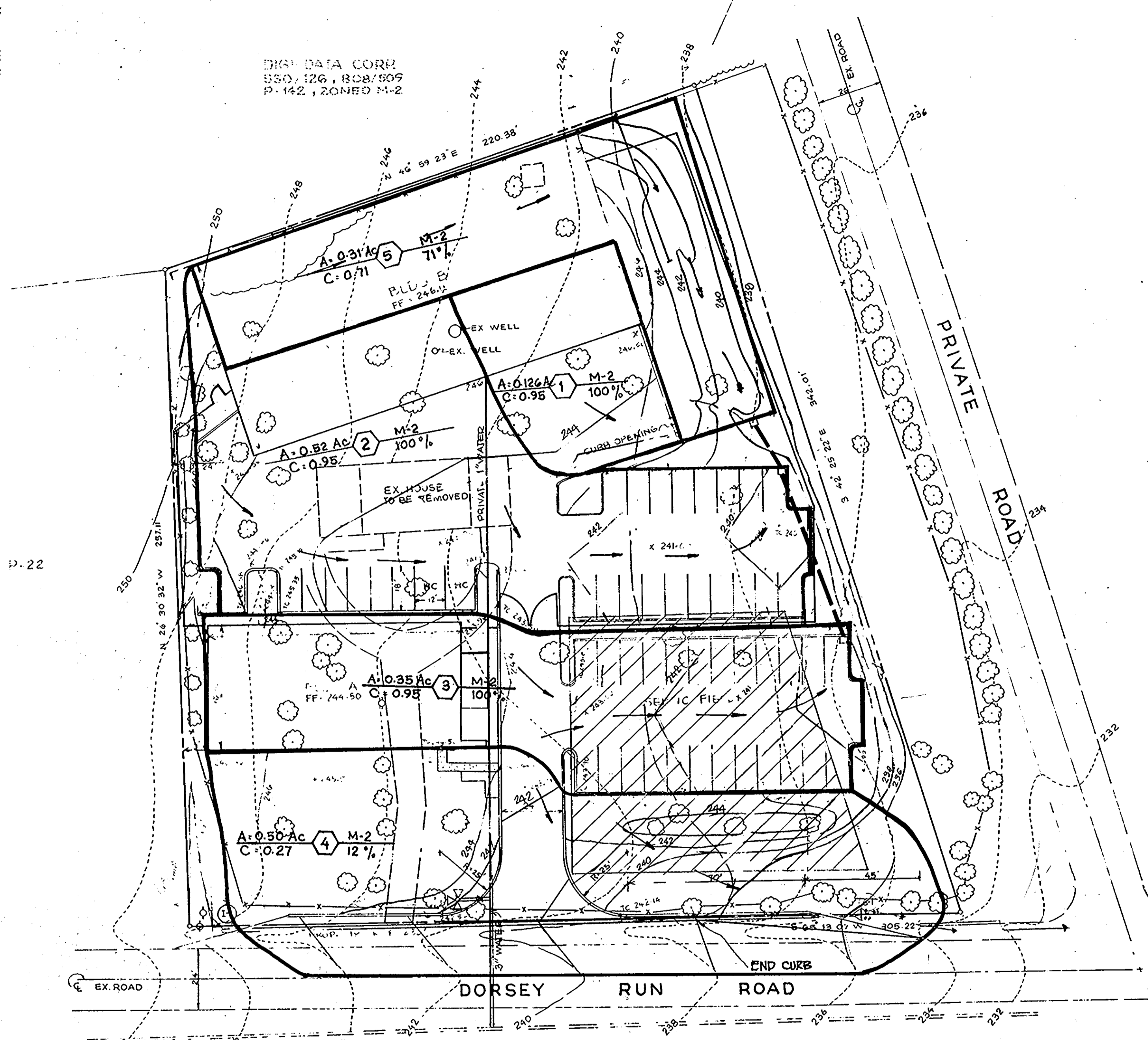
DESIGNED M.S.  
DRAWN V.S.  
CHECKED M.S.  
DATE

OWNER: JEFF LILLY  
J&R ROOFING INC.  
7798 JESSUP RD.  
JESSUP, MD. 20794

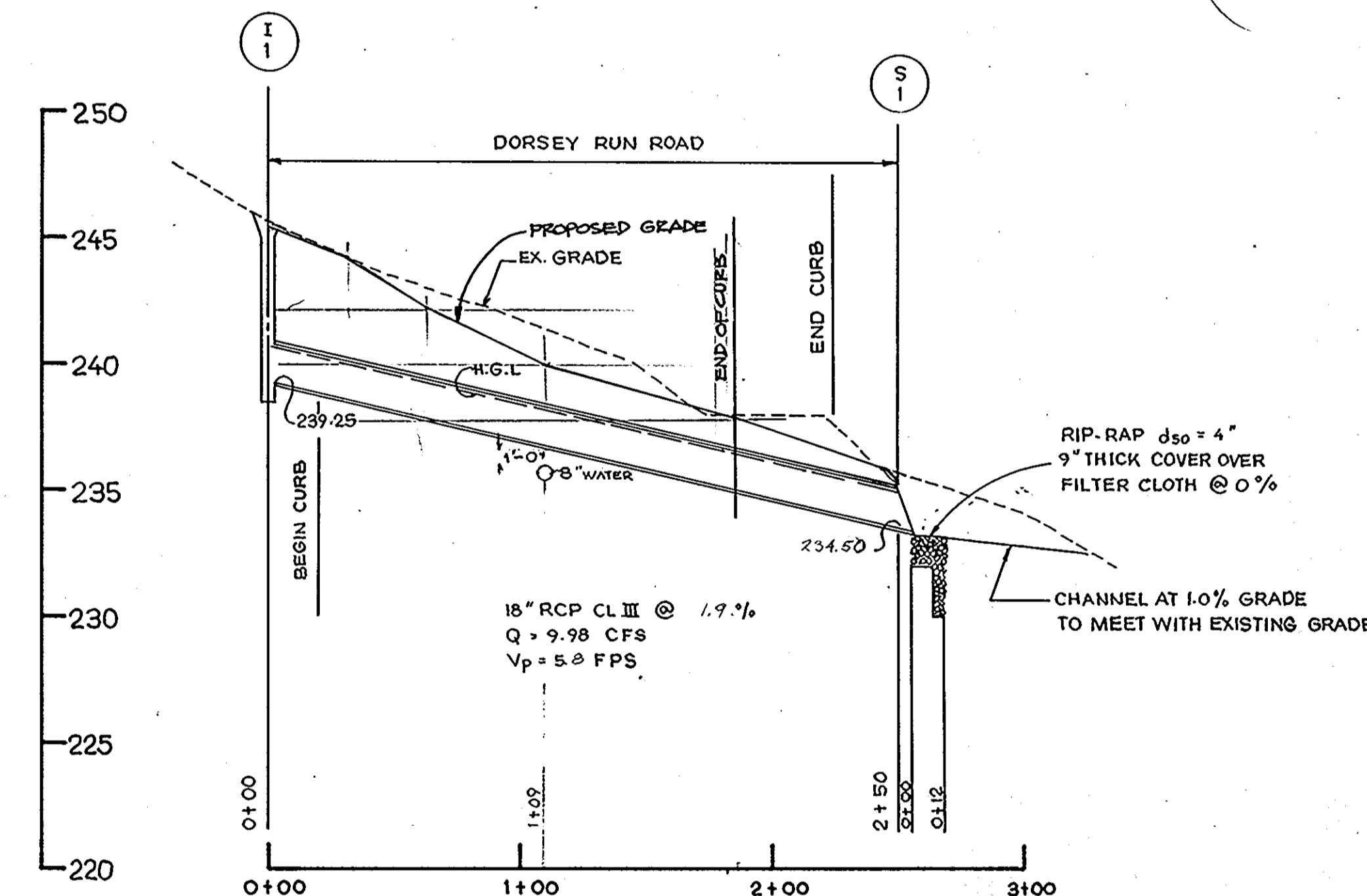
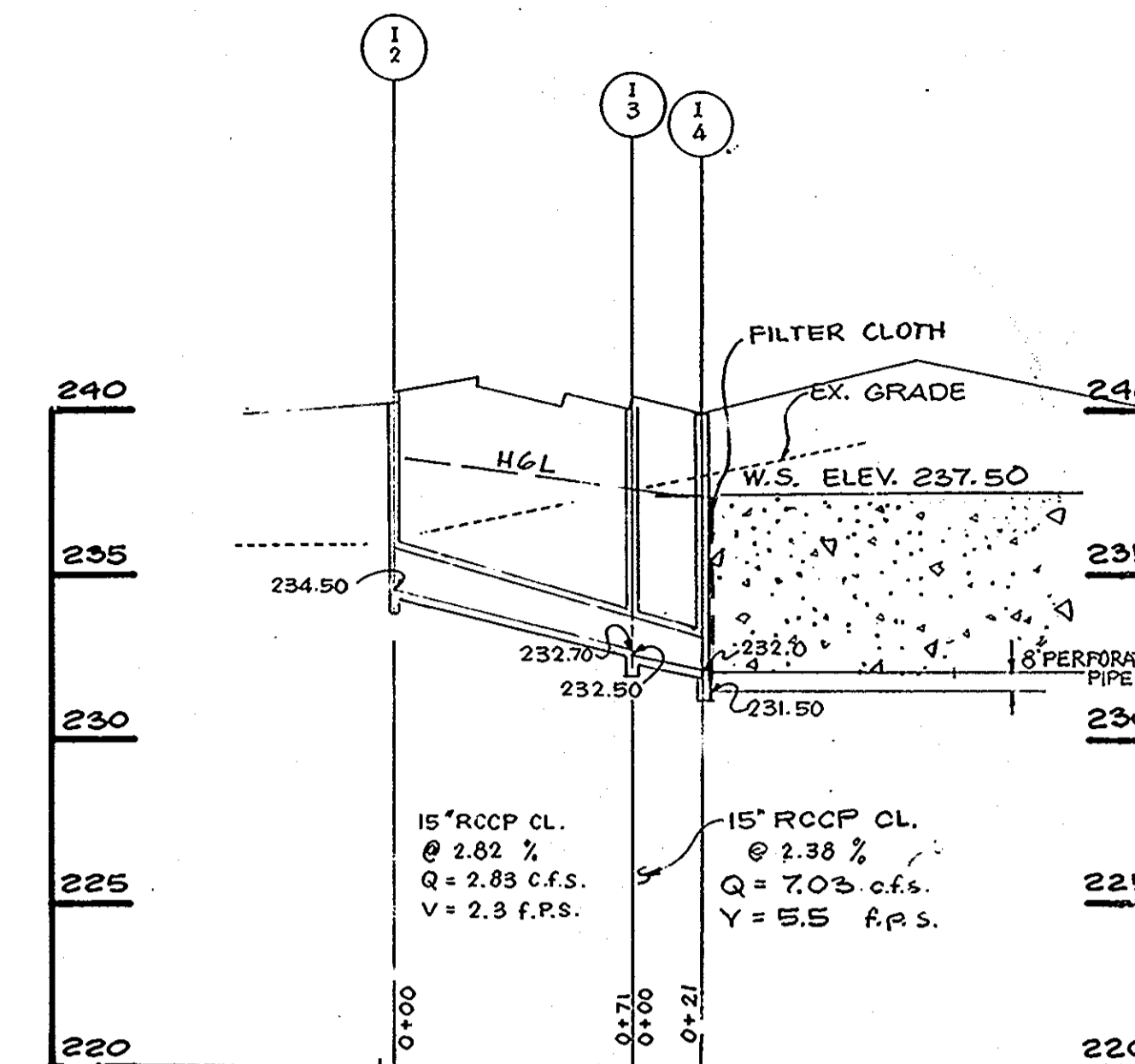
JOB NO.  
FILE NO.  
SCALE  
SHEET NO. 1 OF 5



DIG DATA CORR  
SSD 126, B28/507  
P. 142, ZONED M-2



STORM DRAIN STRUCTURE SCHEDULE						
NO	TYPE	TOP ELEV	IN	OUT	LOCATION	REMARKS
I-1	TYPE D INLET - HO. CO. STD. SD - 4.11	245.0	-	239.25	SEE PLAN	
I-2	A-S INLET - HO. CO. STD. SD - 4.01	240.3	-	234.5	SEE PLAN	
I-3	A-S INLET - HO. CO. STD. SD - 4.01	240.3	232.7	232.5	SEE PLAN	
I-4	TYPE D INLET - HO. CO. STD. SD - 4.11	240.0	232.0	231.50	SEE PLAN	
S-1	18" END SECTION HO. CO. STD. SD S-51	235.0	-	-	SEE PLAN	



**APPROVED**  
DIVISION OF  
COMMUNITY PLANNING  
& LAND DEVELOPMENT  
HOWARD COUNTY,  
MARYLAND  
5-22-89  
LWS

**LORIA ENGINEERING, INC.**

ENGINEERS - PLANNERS - SURVEYORS  
3665 ELLICOTT MILLS DRIVE  
ELLICOTT CITY, MD. 21043  
(301) 465-7777

**DRAINAGE AREA MAP & STORM DRAIN PROFILES**

**J & R DORSEY**  
6TH ELECTION DISTRICT, TAX MAP 48, PARCEL 113  
HOWARD COUNTY, MARYLAND, 20794

OWNER: JEFF LILLY  
J & R DORSEY, INC.  
7798 JESSUP RD.  
JESSUP, MD. 20794

SDP-89-150

SHEET NO  
2 OF 5

ONE ENTRANCE & CHAIN LINK FENCE 5-29-81  
REVISION DATE

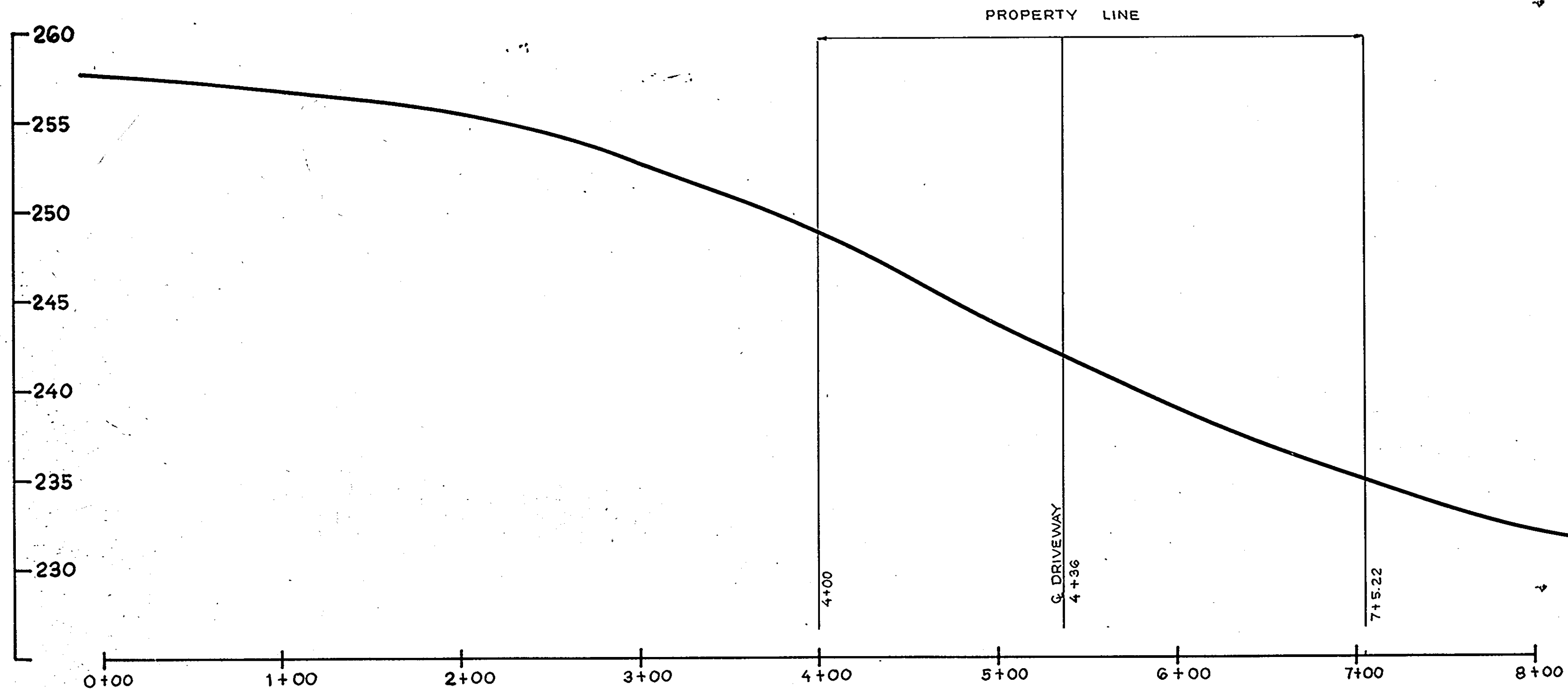
APPROVED: DEPT. OF PLANNING AND ZONING  
8.30.89  
PLANNING DIRECTOR  
8/2/89  
CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT  
APPROVED HOWARD COUNTY HEALTH DEPARTMENT FOR PUBLIC WATER AND PRIVATE SEWERAGE SYSTEM  
7-31-89  
HEALTH OFFICER

APPROVED: DEPARTMENT OF PUBLIC WORKS FOR PUBLIC WATER SYSTEMS AND ROADS AND STORM DRAINAGE  
8/1/89  
DIRECTOR, PUBL. C. WORKS  
8-4-89  
CHIEF, BUREAU OF ENGINEERING  
WATER CODE  
SEWER CODE

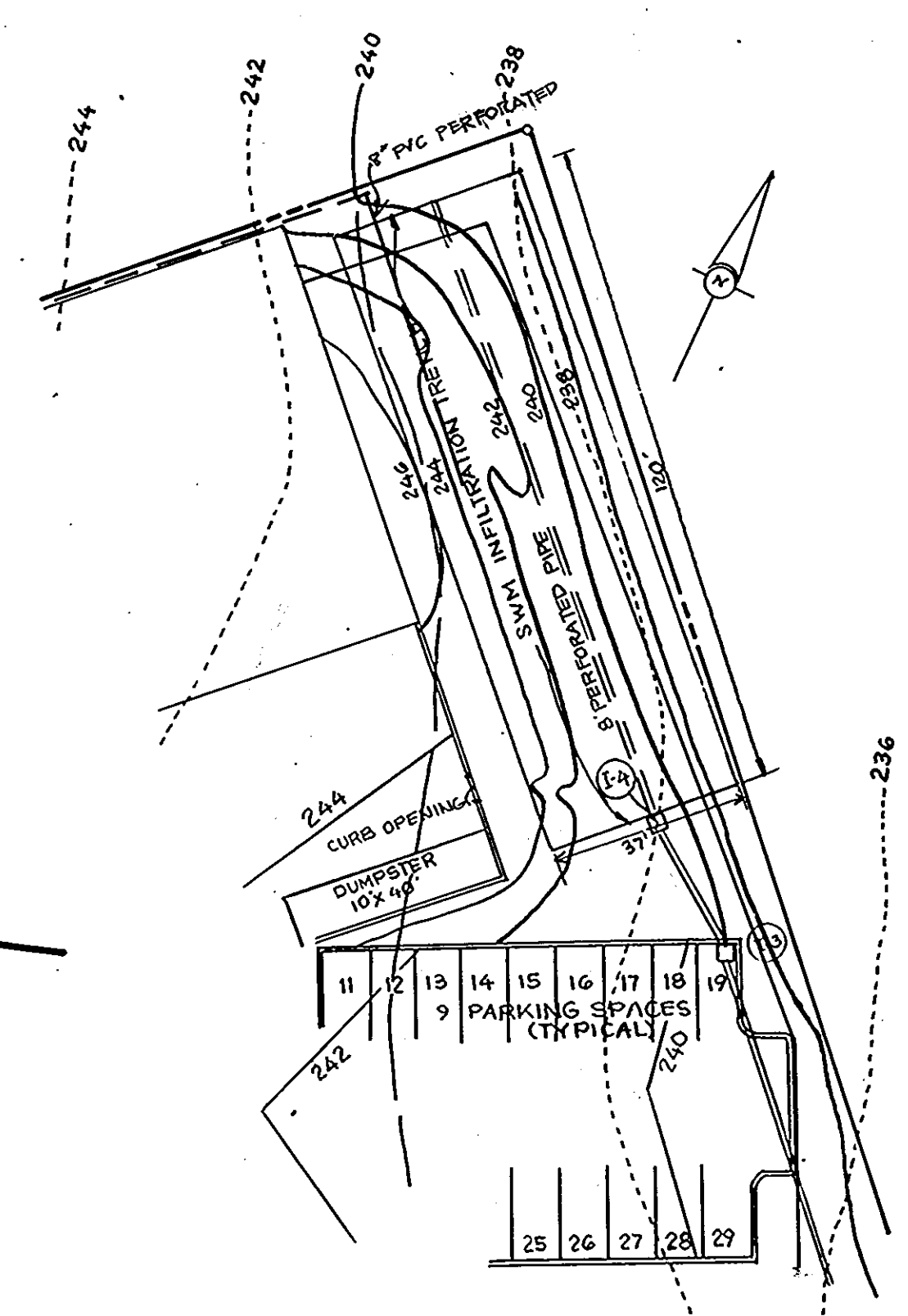
REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS  
7/10/89  
U.S. SOIL CONSERVATION SERVICE  
THIS DEVELOPMENT IS APPROVED FOR EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT  
APPROVED:  
7/18/89  
HOWARD SOIL CONSERVATION DISTRICT

**ENGINEER'S CERTIFICATE**  
I HEREBY 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 SOILS CONSERVATION DISTRICT.  
289  
SIGNATURE OF ENGINEER DATE

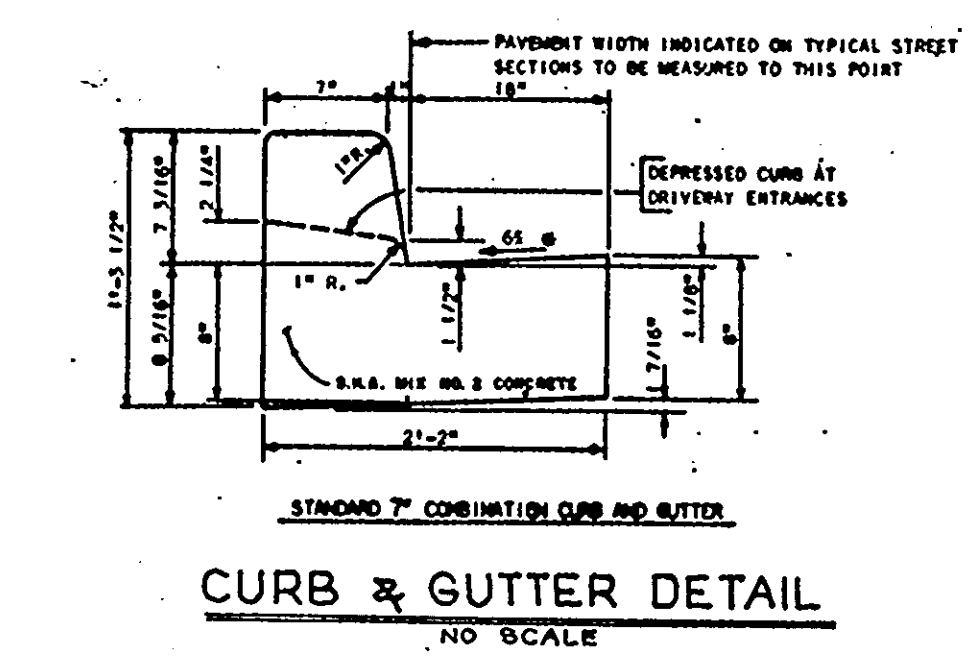
**DEVELOPER'S CERTIFICATE**  
"I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND PLAN FOR EROSION AND SEDIMENT CONTROL AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ONSITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY."  
7/19/89  
SIGNATURE OF DEVELOPER DATE



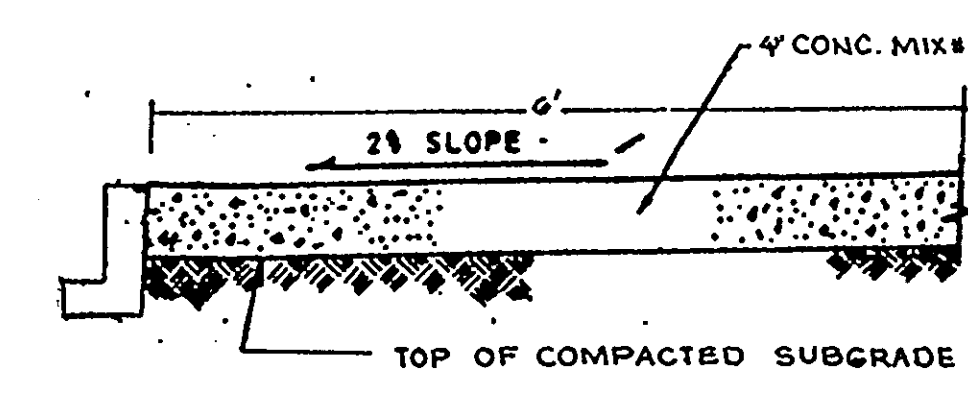
**ROAD PROFILE  
DORSEY RUN ROAD**  
SCALE: HORIZ. 1"=50'  
VERT. 1"=5'



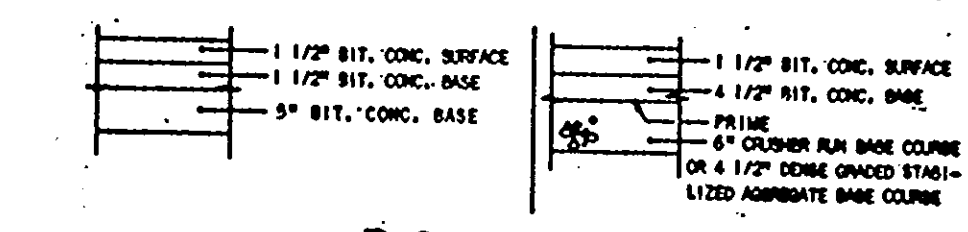
**STORM WATER MANAGEMENT  
INFILTRATION TRENCH**  
SCALE: 1"=30'



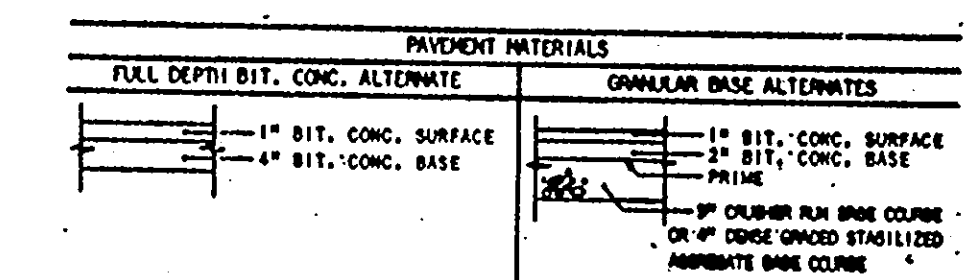
**CURB & GUTTER DETAIL**  
NO SCALE



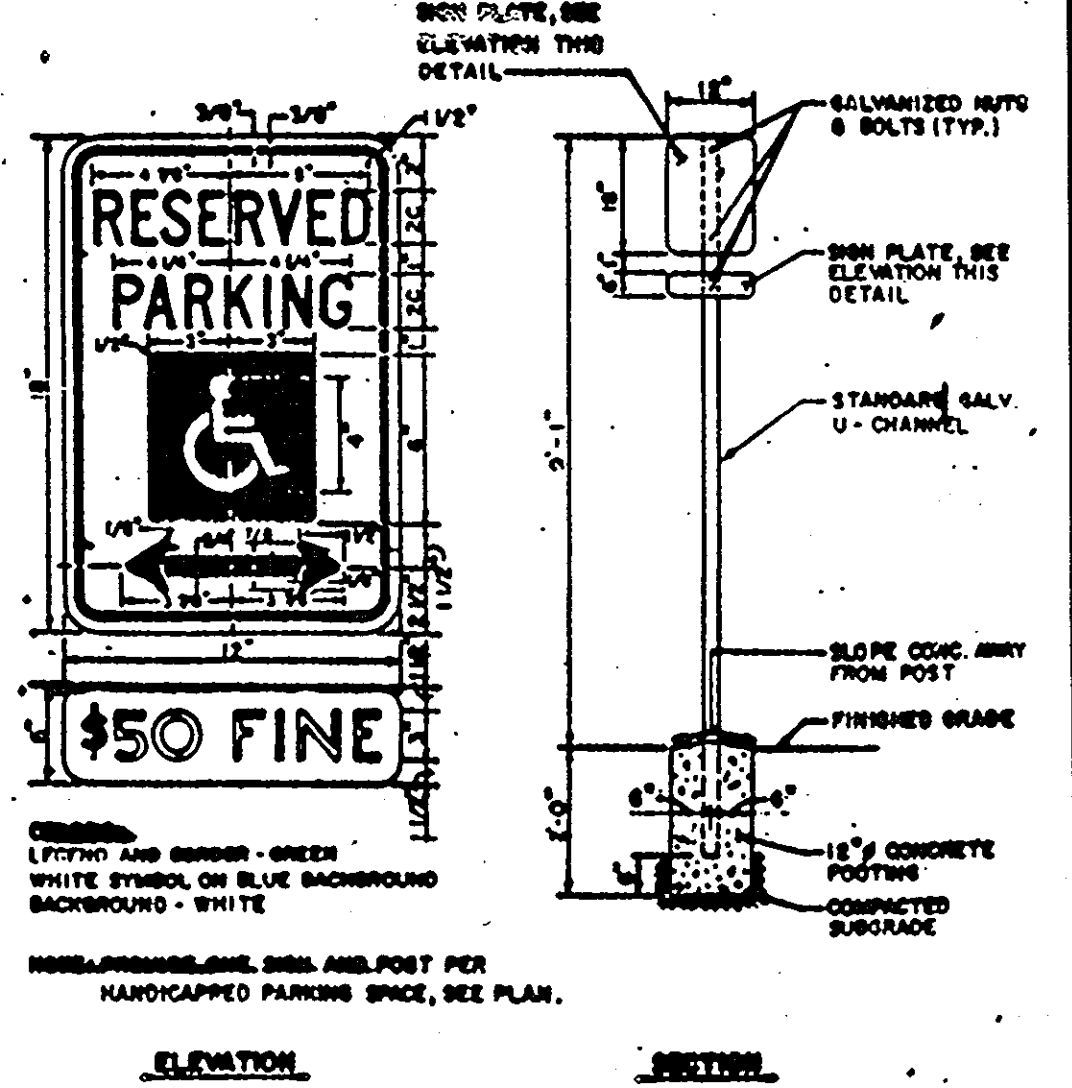
**SIDEWALK DETAIL**  
NO SCALE



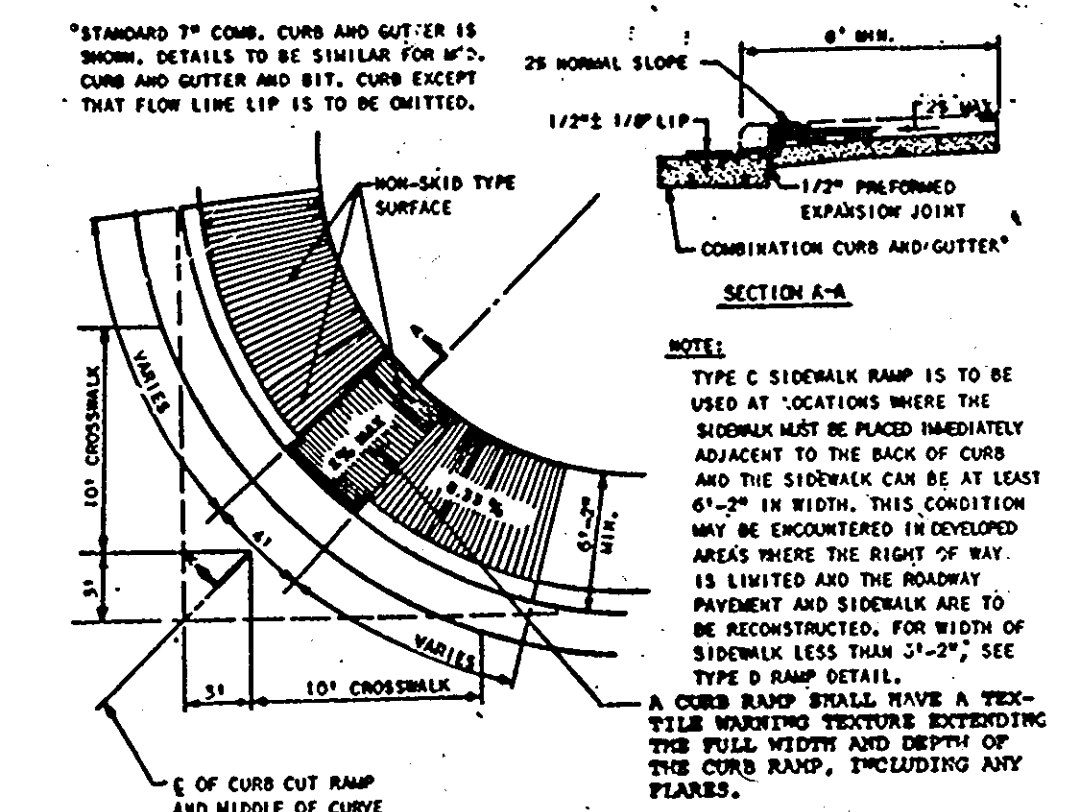
**P-3 PAVING  
PAVING DETAIL**  
NO SCALE



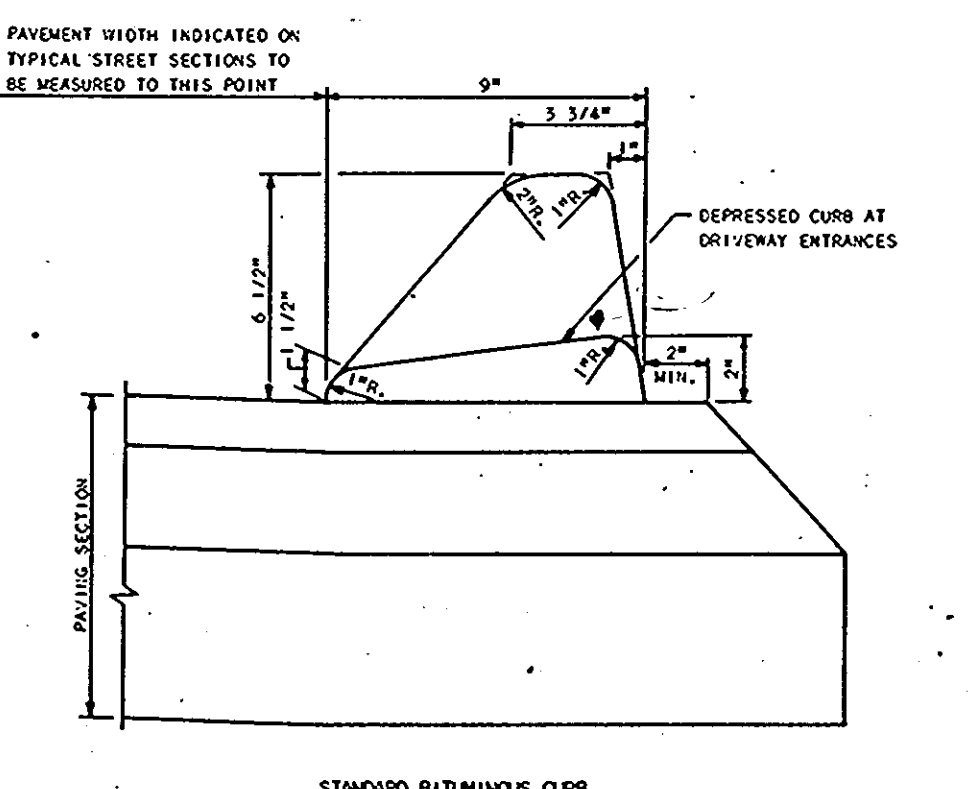
**P-1 PAVING**



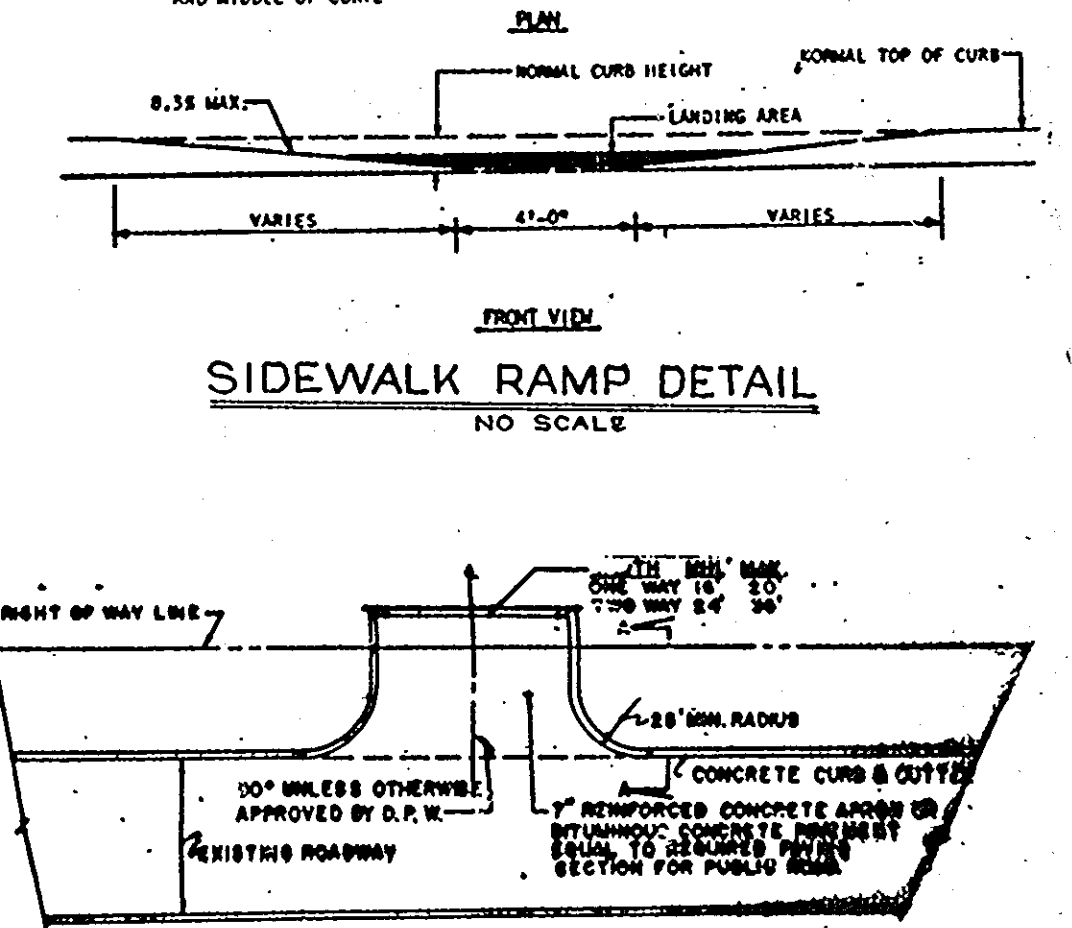
**HANDICAPPED SIGN AND POST**  
NOT TO SCALE



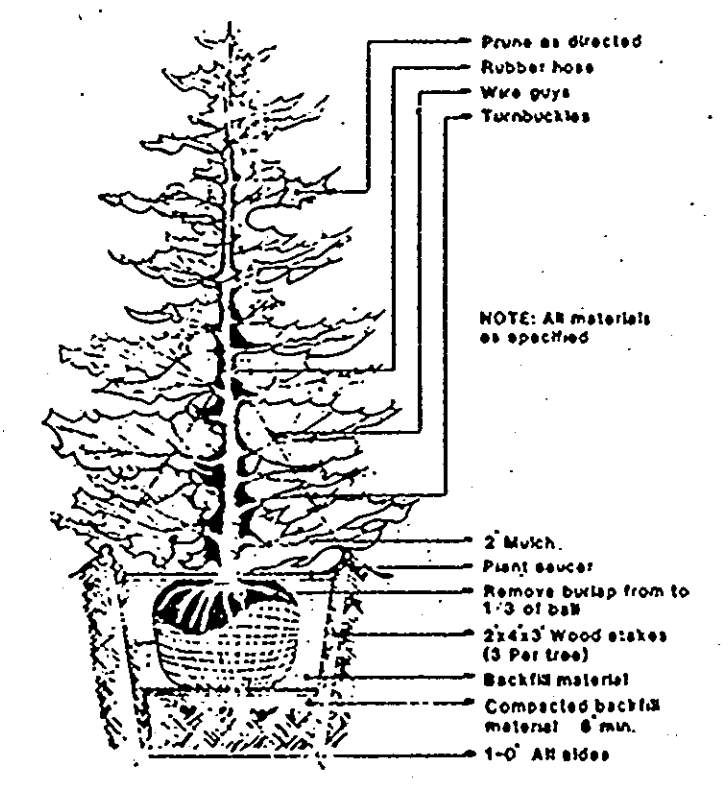
**SIDEWALK RAMP DETAIL**  
NO SCALE



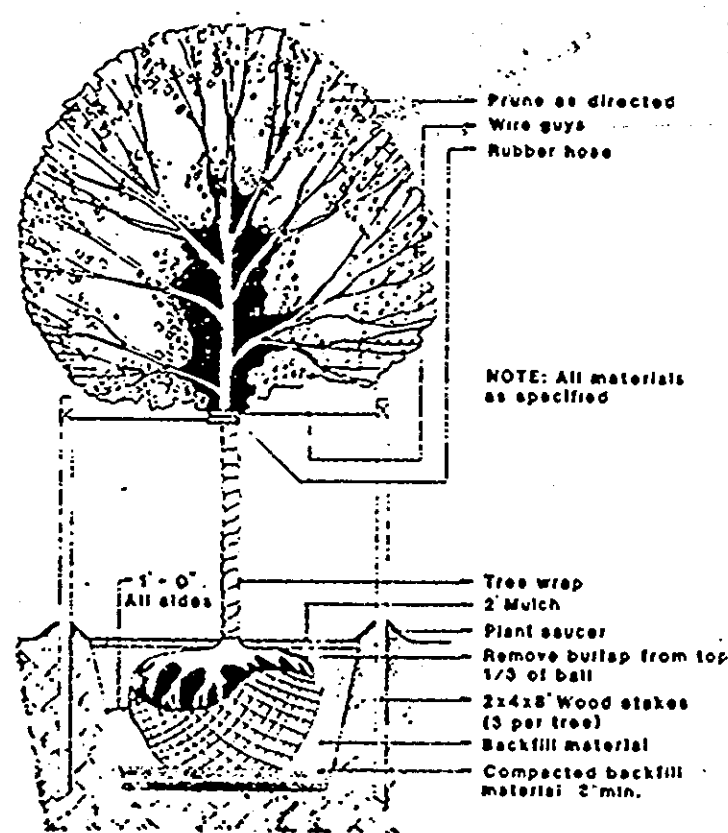
**DUMPSTER PAD DETAIL**



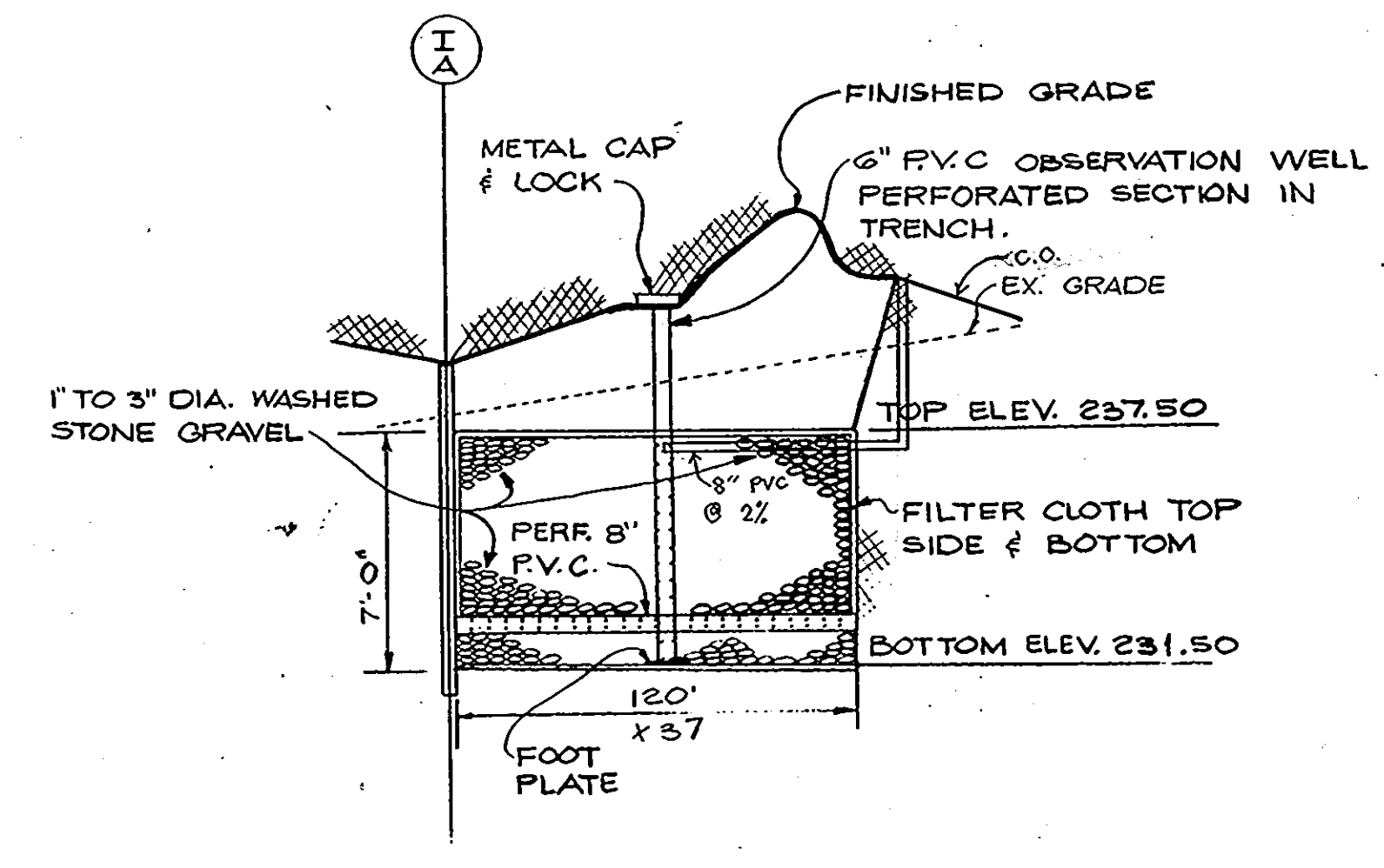
**DORSEY RUN ROAD WIDENING**



**Typical Evergreen Tree Planting Detail**  
Not to Scale



**Typical Deciduous Tree Planting Detail**  
Not to Scale

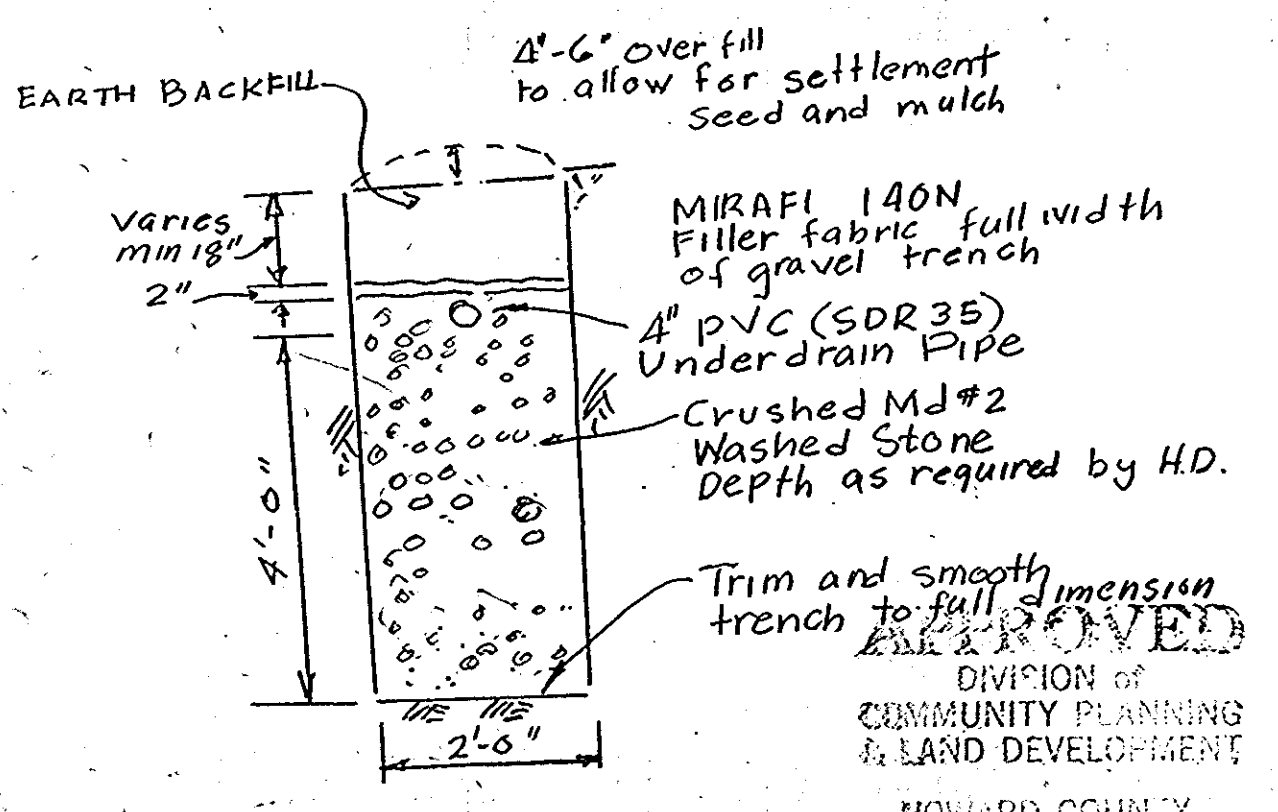


**S.W.M. INFILTRATION TRENCH DETAIL**  
SCALE: HORI: 1"=50'  
VERT: 1"=5'

SECTION NUMBER	ROAD AND STREET CLASSIFICATION	PAVEMENT MATERIALS	
		1" XL DEPTH BIT. CONC. ALTERNATE	GRANULAR BASE ALTERNATES
P-5	COMMERCIAL-INDUSTRIAL ZONES	1 1/2" BIT. CONC. SURFACE	1 1/2" BIT. CONC. SURFACE
	MAJOR COLLECTOR	1 1/2" BIT. CONC. BASE	4 1/2" BIT. CONC. BASE
P-5	ALL ZONES	1 1/2" BIT. CONC. SURFACE	1 1/2" BIT. CONC. SURFACE
	MINOR ARTERIAL	4 1/2" BIT. CONC. BASE	4 1/2" BIT. CONC. BASE

**P-5 PAVING**

REV	REVISION	DATE
1	GATE ENTRANCE & CHAIN LINK FENCE	5-29-89



**TYPICAL TRENCH SECTION**  
NOT TO SCALE

APPROVED: FOR PUBLIC WATER AND PRIVATE SEWERAGE SYSTEMS, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
 COUNTY HEALTH OFFICER: *[Signature]* DATE: 7-31-89  
 APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING  
 PLANNING DIRECTOR: *[Signature]* DATE: 8-20-89  
 CHIEF DIVISION OF COMMUNITY PLANNING & LAND DEVELOPMENT  
 APPROVED: FOR PUBLIC WATER AND STORM DRAINAGE SYSTEMS AND PUBLIC ROADS, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
 DIRECTOR: *[Signature]* DATE: 8-17-89  
 CHIEF BUREAU OF ENGINEERING: *[Signature]* DATE: 8-4-89

REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS  
 U.S. SOIL CONSERVATION SERVICE: *[Signature]* DATE: 7/10/89  
 THIS DEVELOPMENT IS APPROVED FOR EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.  
 APPROVED: *[Signature]* DATE: 7/10/89  
 DISTRICT: HOWARD SOIL CONSERVATION DISTRICT

**LORIA ENGINEERING, INC.**  
 Engineers • Site Planners • Surveyors  
 3 ELLICOTT MILLS DRIVE  
 ELlicott City, MD 21043  
 (301) 465-0400

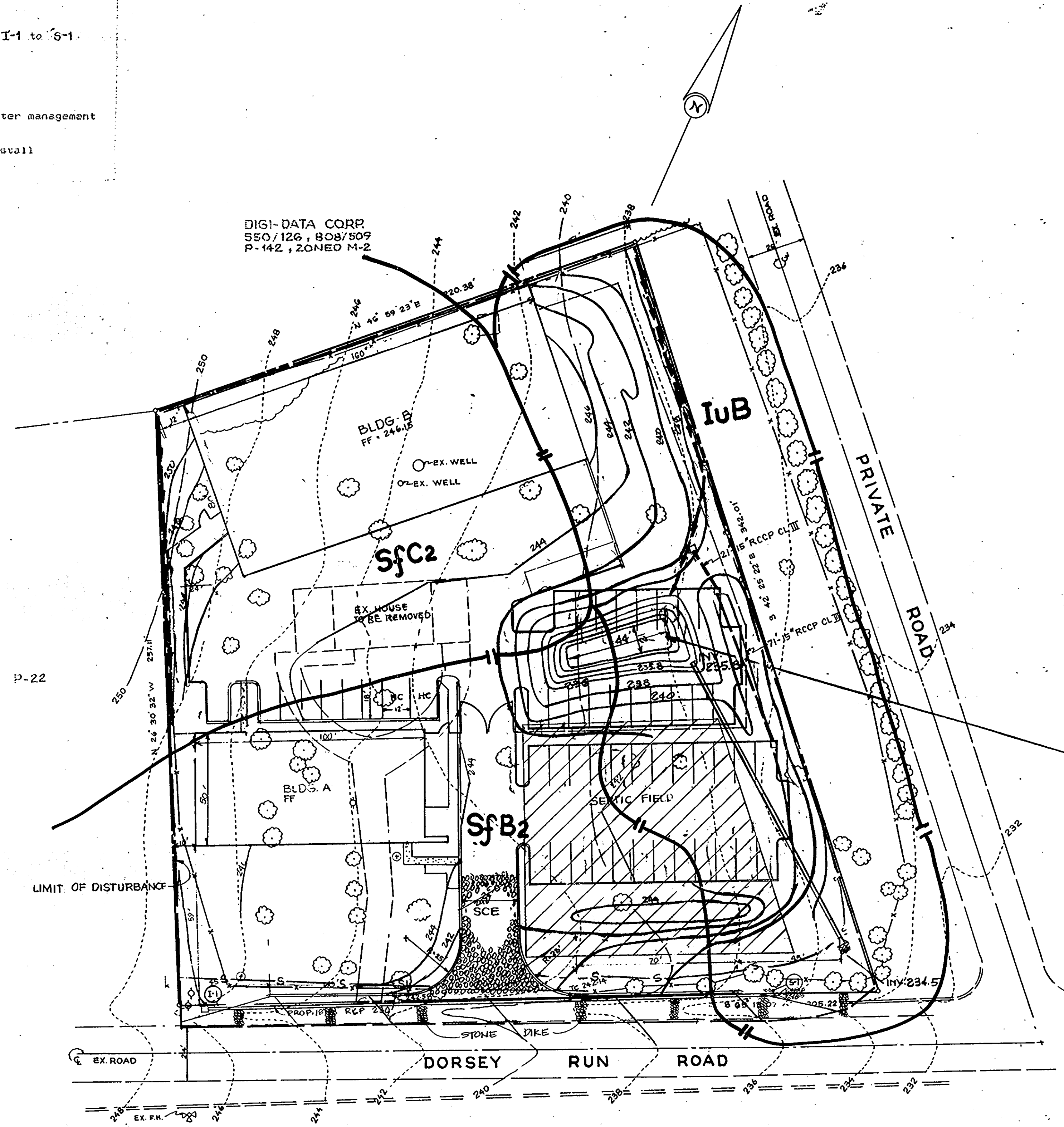
ENGINEER'S CERTIFICATE  
 I HEREBY CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOILS CONSERVATION DISTRICT.  
 STATE OF MARYLAND PROFESSIONAL ENGINEER  
 SIGNATURE OF ENGINEER: *[Signature]* DATE: 8-22-89

DEVELOPER'S CERTIFICATE  
 I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND PLAN FOR EROSION AND SEDIMENT CONTROL AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ONSITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY.  
 SIGNATURE OF DEVELOPER: *[Signature]* DATE: 7/10/89

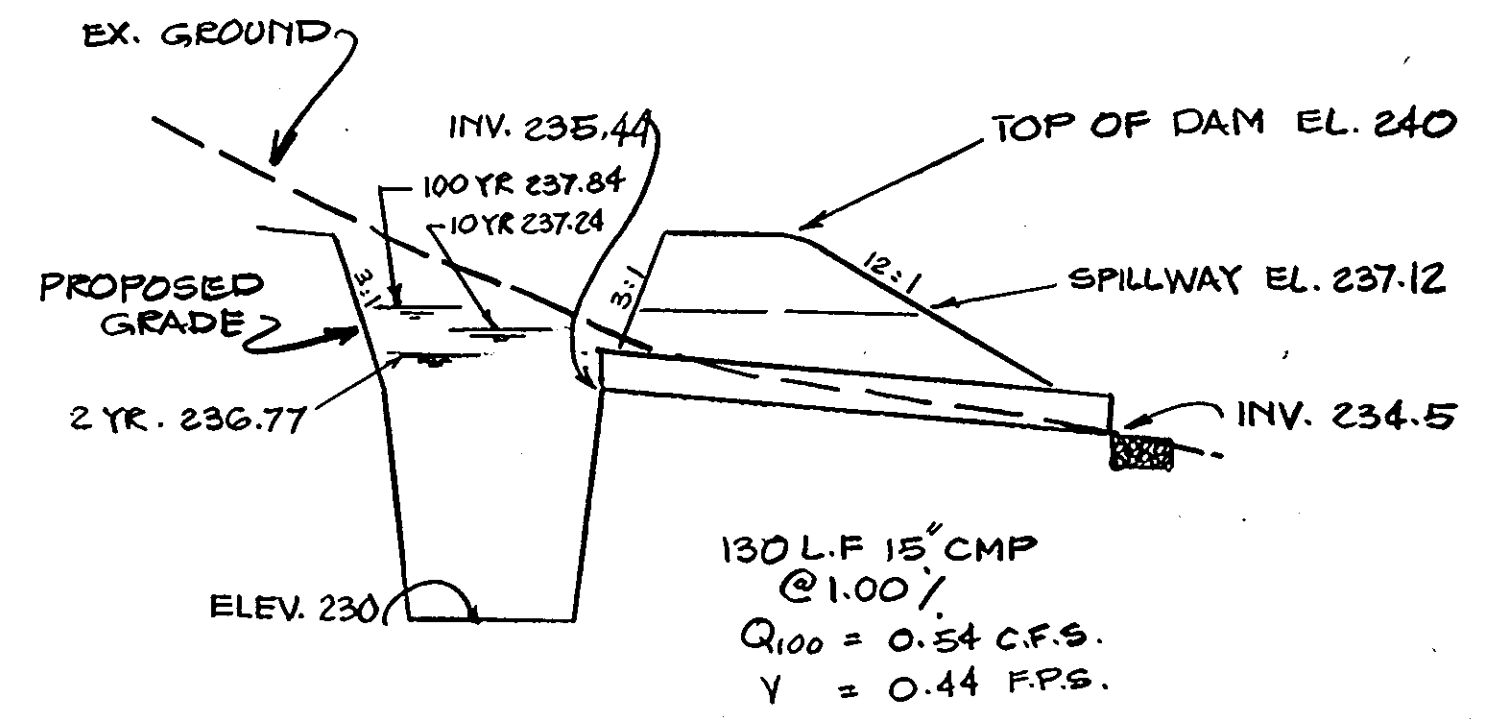
SUBDIVISION NAME		SECTION/AREA	PARCEL NO.
J & R DORSEY			
PLAT NO.	BLOCK NO.	ZONE	TAX ZONE
397/578	8	M-2	48
WATER CODE	SEWER CODE	CENSUS TR	
B 02	N/A	6069	
DESIGNED	STORM WATER MANAGEMENT ROAD PROFILE & DETAILS		
DRAWN	J & R DORSEY		
CHECKED	TAX MAP 48, PARCEL 113 6TH ELECTION DISTRICT HOWARD COUNTY, MD, 20794		
DATE	OWNER:	JOB NO.	
	JEFF LILLY	FILE NO.	
	J & R ROOFING INC.		
	7795 JESSUP RD.		
	JESSUP, MD 21043		

SEQUENCE OF CONSTRUCTION:

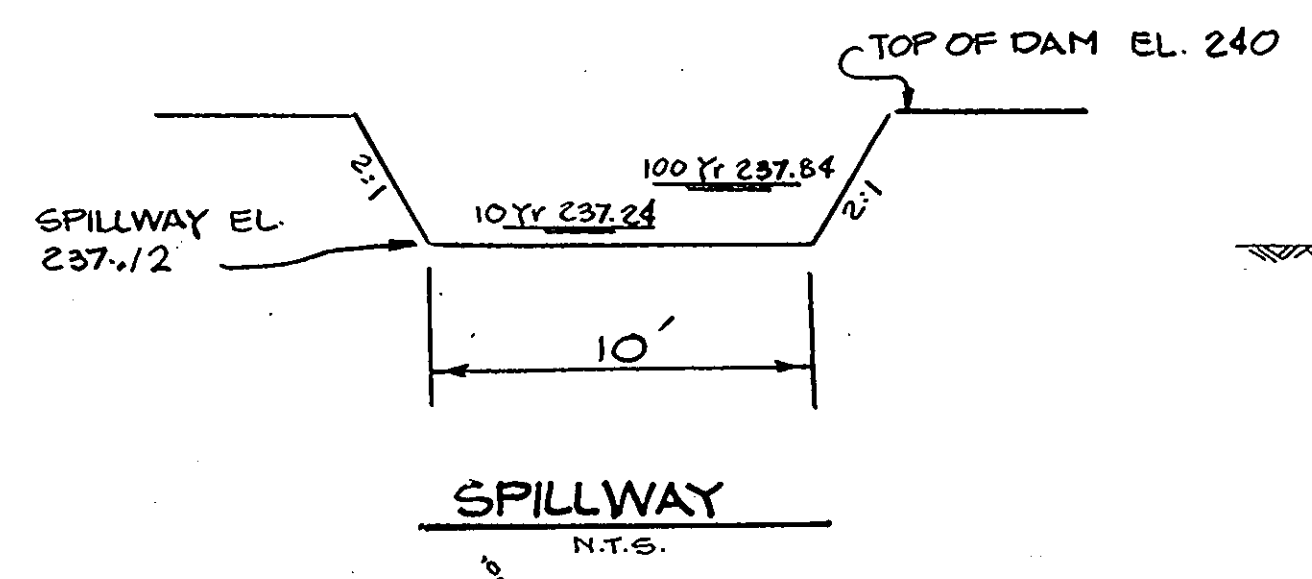
1. Obtain Grading Permit.
2. Install sediment and erosion control measures and temporary stormwater management pond. Install I-1 to S-1.
3. Cap wells
4. Install SWM infiltration trench. Temporarily cap pipe to trench.
5. Clear and rough grade site. Demolish building.
6. General excavation and temporary stabilization.
7. Install septic tank and construct utilities.
8. Install paving outside the temporary stormwater management pond.
9. Stabilize site.
10. Remove temporary stormwater management pond, install inlets and paving.
11. Plant landscaping trees..



**PLAN**  
SCALE 1"=30'



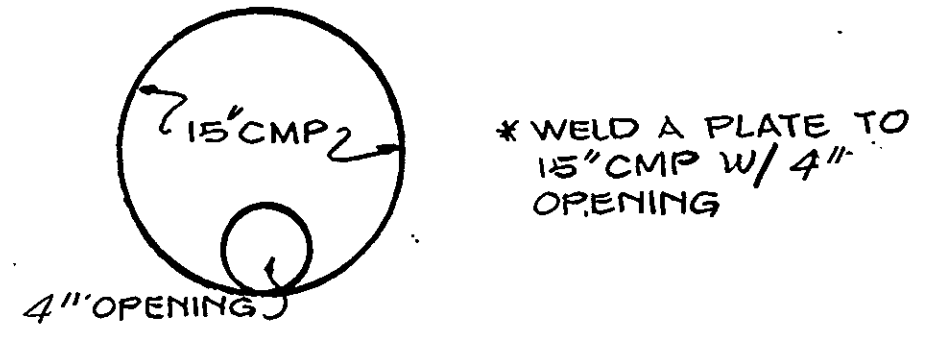
**SECTION THROUGH TEMPORARY S.W.M. DAM**  
SCALE: HORIZ: 1"=50'  
VERT: 1"=5'



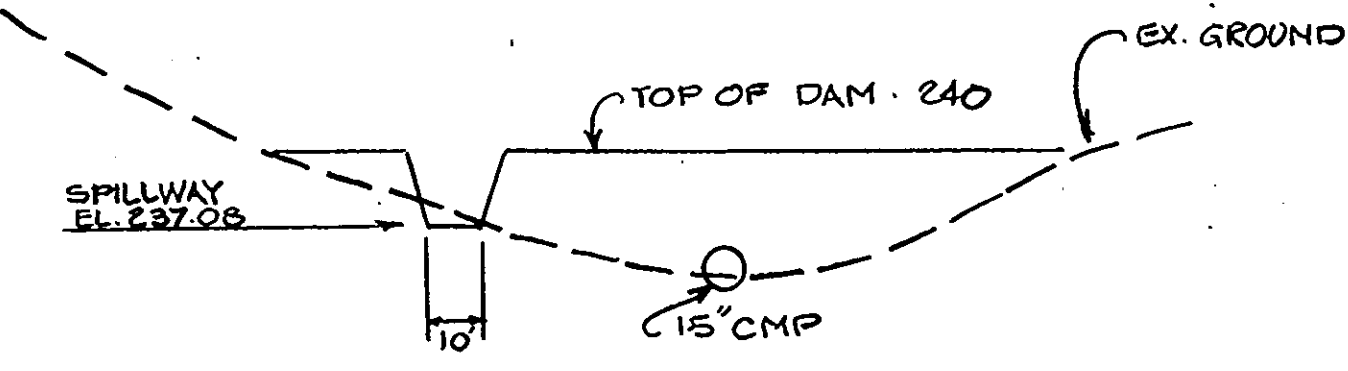
**SPILLWAY**  
N.T.S.

**STONE-DIKE DETAIL**  
N.T.S.

**SEDIMENT TRAP #1**  
TOTAL DRAINAGE AREA = 1.81 Ac.  
STORAGE REQUIRED = 3,258 CU. FT.  
STORAGE PROVIDED = 4000 CU. FT.  
BOTTOM EL. = 230  
STORAGE EL. = 234.5  
BOTTOM DIMENSION = 44'x12'  
SIDE SLOPE BELOW INVERT OF PIPE = 1:1



**ORIFICE PIPE**  
N.T.S.



**SECTION ALONG DAM**  
SCALE: H: 1"=50'  
V: 1"=5'

**APPROVED**  
DIVISION of  
COMMUNITY PLANNING  
& LAND DEVELOPMENT  
HOWARD COUNTY,  
MARYLAND  
DATE: 5-22-89  
LWS

CEP	GATE ENTRANCE & CHAIN LINK FENCE	5-23-81
BU	REVISION	DATE

APPROVED: DEPT. OF PLANNING AND ZONING  
DATE: 8-30-89

PLANNING DIRECTOR  
DATE: 8/24/89

CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT

APPROVED HOWARD COUNTY HEALTH DEPARTMENT FOR PUBLIC WATER AND PRIVATE SEWERAGE SYSTEM  
DATE: 7-31-89

HEALTH OFFICER

APPROVED DEPARTMENT OF PUBLIC WORKS FOR PUBLIC WATER AND SEWER AND STORM DRAINAGE SYSTEMS AND ROADS  
DATE: 8/7/89

DIRECTOR, PUBLIC WORKS

DATE: 8-4-89

CHIEF, BUREAU OF ENGINEERING

PLAT NO.	BLOCK NO.	ZONE	TAX CODE	EC DIST	STATUS

WATER CODE

SEWER CODE

REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS  
DATE: 7/18/89

U.S. SOIL CONSERVATION SERVICE

THIS DEVELOPMENT IS APPROVED FOR EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT

APPROVED:

DATE: 7/18/89

DISTRICT HOWARD SOIL CONSERVATION DISTRICT

**ENGINEER'S CERTIFICATE**

I HEREBY 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 SOILS CONSERVATION DISTRICT.

DATE: 7-8-89

SIGNATURE OF ENGINEER

**DEVELOPER'S CERTIFICATE**

"I WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND PLAN FOR EROSION AND SEDIMENT CONTROL AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF NATURAL RESOURCES 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 OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY."

DATE: 7/9/89

SIGNATURE OF DEVELOPER

**LORIA ENGINEERING, INC.**  
ENGINEERS - PLANNERS - SURVEYORS  
3815 ELLICOTT MILLS DRIVE  
ELLICOTT CITY, MD. 21043  
(301) 465-7777

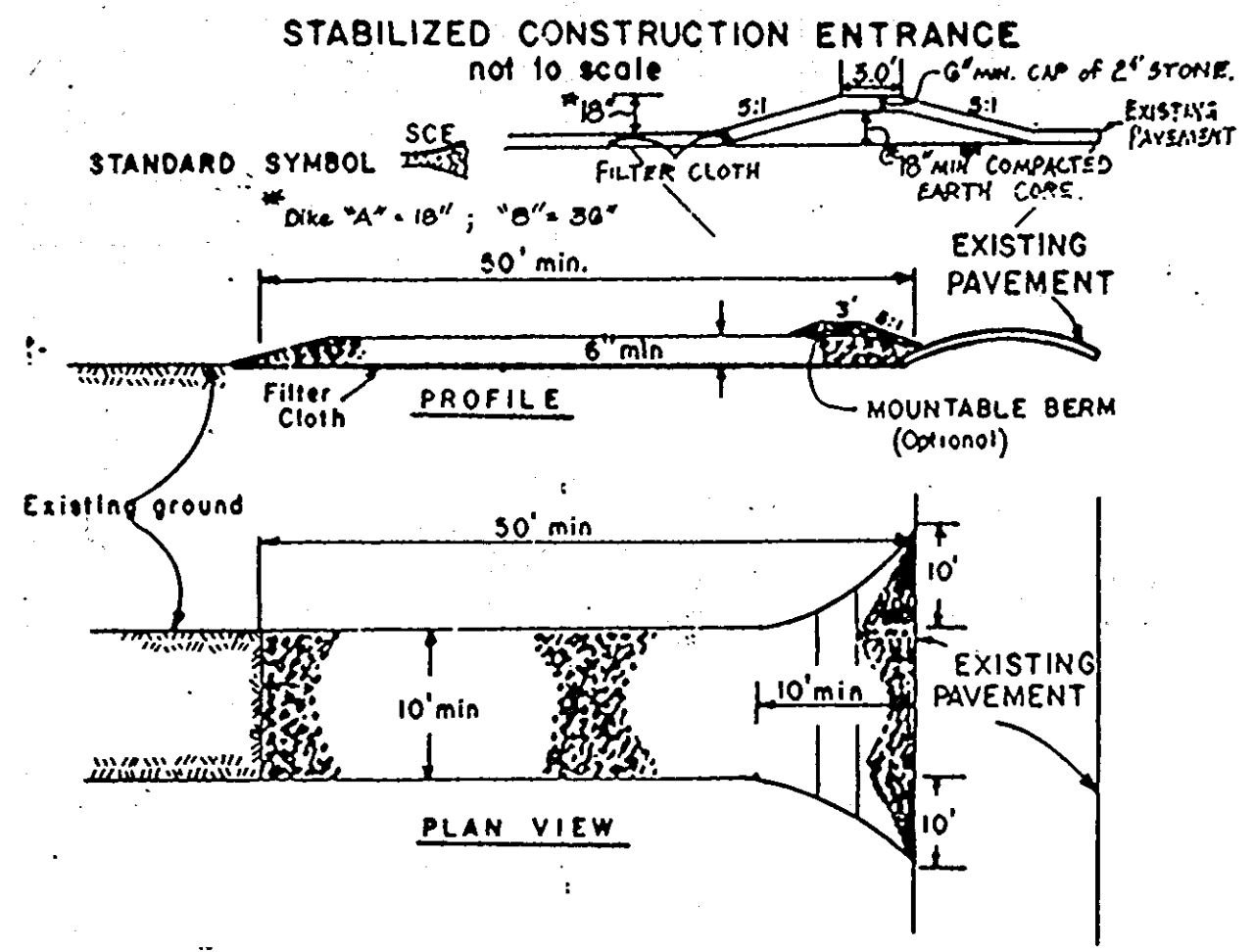
**SEDIMENT & EROSION CONTROL PLAN & SOIL MAP**  
**J & R DORSEY**  
6TH ELECTION DISTRICT, TAX MAP 48, PARCEL 113  
HOWARD COUNTY, MARYLAND, 20794

DESIGNED	M.F.	JOB NO.
DRAWN	V.S.	FILE NO.
CHECKED	M.S.	SCALE
DATE		SHEET NO.

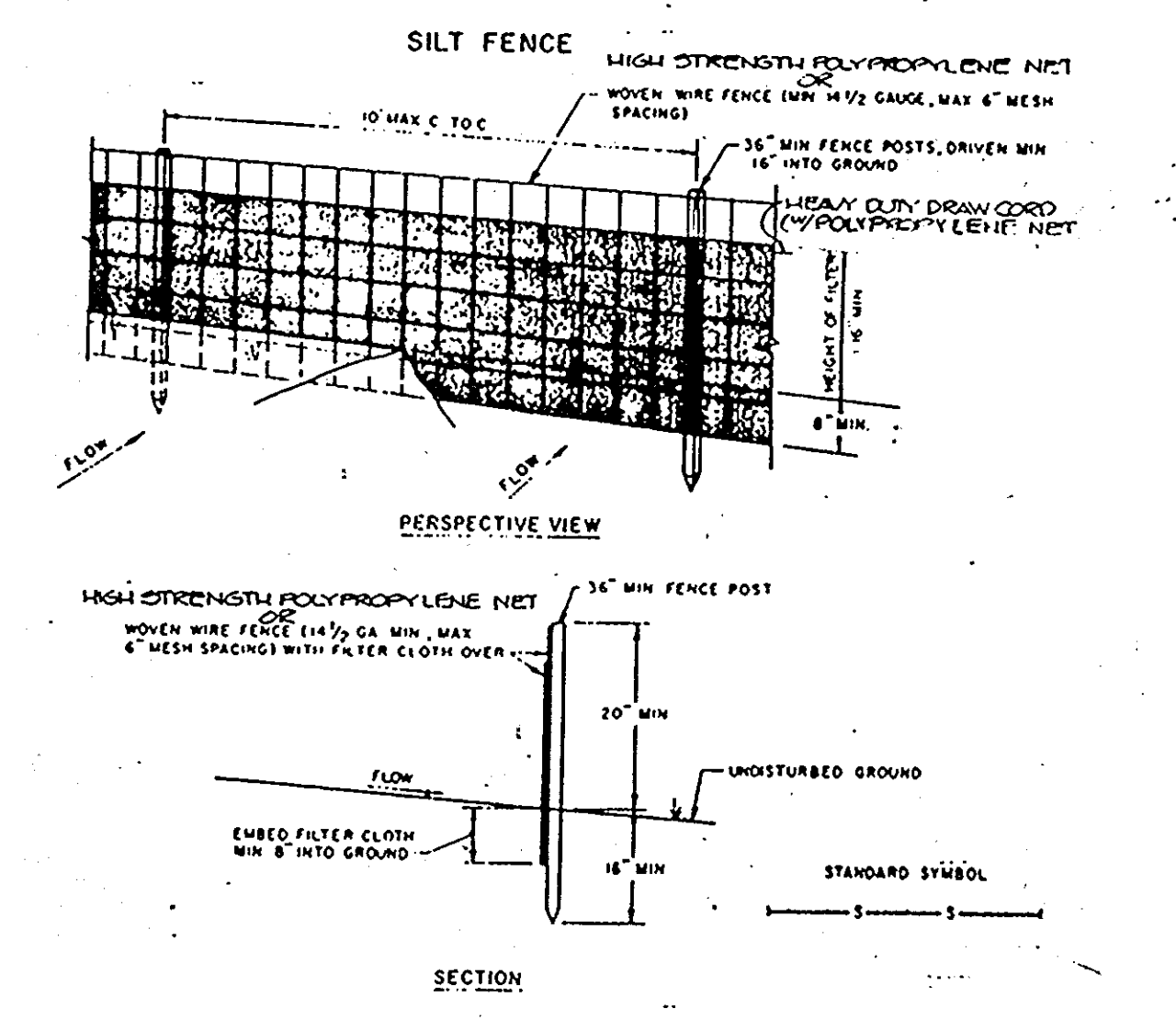
OWNER: JEFF LILLY  
J & R ROOFING INC.  
7718 JESSUP RD.  
JESSUP, MD. 21043

SDP-84-150

4 OF 5



- CONSTRUCTION SPECIFICATIONS**
- Stone Size - Use 2" stone, or reclaimed or recycled concrete equivalent.
  - Length - As required, but not less than 50 feet (except on a single residence lot where a 10 foot minimum length would apply).
  - Thickness - Not less than six (6) inches.
  - Width - Ten (10) foot minimum, but not less than the full width at points where ingress or egress occurs.
  - Filter Cloth - Will be placed over the entire area prior to placing of stone. Filter will not be required on a single family residence lot.
  - Surface Water - All surface water flowing or diverted toward construction entrances shall be piped across the entrance. If piping is impractical, a mounded berm with 5:1 slopes will be permitted.
  - Maintenance - The entrance shall be maintained in a condition which will prevent tracking or flowing of sediment onto public rights-of-way. This may require periodic top dressing with additional stone as conditions demand and repair and/or cleanup of any measures used to trap sediment. All sediment spilled, dropped, washed or tracked onto public rights-of-way must be removed immediately.
  - Washing - Wheels shall be cleaned to remove sediment prior to entrance onto public rights-of-way. When washing is required, it shall be done on an area stabilized with stone and which drains into an approved sediment trapping device.
  - Periodic inspection and needed maintenance shall be provided after each rain.



- CONSTRUCTION NOTES FOR FASTENED SILT FENCE**
- MWEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES.
  - FILTER CLOTH TO BE FASTENED SECURELY TO MWEN WIRE FENCE WITH TIE SPACED EVERY 24" AT TOP AND MID SECTION.
  - WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY SIX INCHES AND FOLDED.
  - MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL BULGES DEVELOP IN THE SILT FENCE.
- POSTS:** STEEL EITHER 1" TYPE OR 1/2" x 1/2" (Actual) HARDWOOD  
**FENCE:** MWEN WIRE, 16 GA. 2" x 2" TIE SPACING  
**FILTER CLOTH:** FILTER 4" (THICK) 100% STABILIZED LIME TERN OR APPROVED EQUAL  
**PRE-FABRICATED UNIT:** GEOTECH. INTERFERENCE, OR APPROVED EQUAL.

**PERMANENT SEEDING NOTES**  
 APPLY TO GRADED OR CLEARED AREA NOT SUBJECT TO IMMEDIATE FUTURE DISTURBANCE WHERE A PERMANENT LONG-LIVED VEGETATIVE COVER IS NEEDED.  
**Seeded Preparation:** Loosen upper 3 inches of soil by raking, disking or other acceptable means before seeding.

**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 square ft.) and 600 lbs. per acre 10-10-10 fertilizer (14 lbs./1000 sq. ft.) before seeding. Harrow or disc into upper three inches of soil. At time of seeding, apply 400 lbs. per acre 30-0-0 ureaform fertilizer (9lbs./1000 sq. ft.)
- 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. Harrow or disc into upper three inches of soil.

**Seeding -** For the 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 well anchored straw.

**Mulching -** Apply 1 1/2 to 2 tons per acre (70 to 90 lbs./1000 sq. ft.) of rotted 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 seeded areas and make needed repairs, replacements and reseedings.

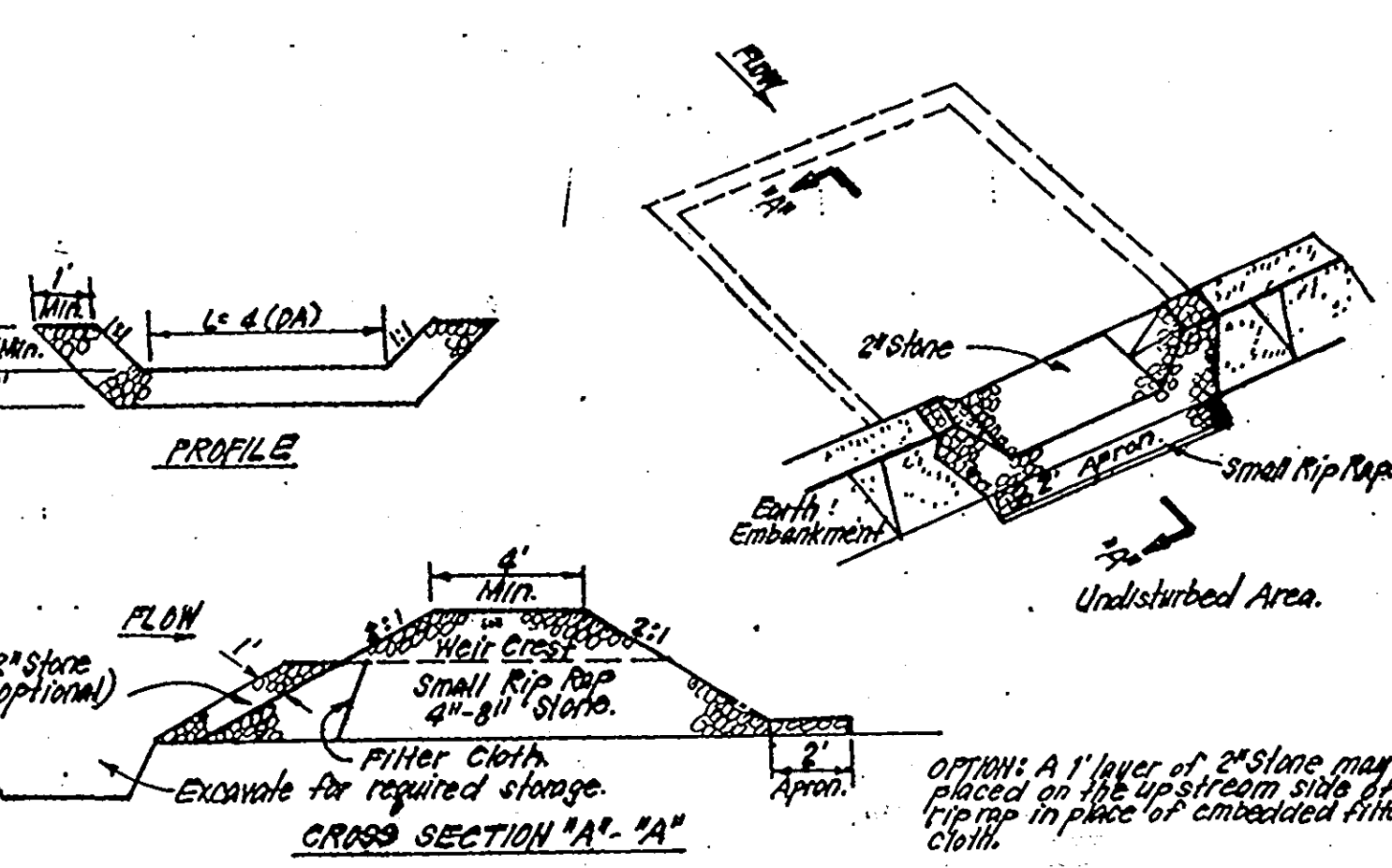
**TEMPORARY SEEDING NOTES**  
 APPLY TO GRADED OR CLEARED AREA LIKELY TO BE REDISTURBED WHERE A SHORT TERM VEGETATIVE COVER IS NEEDED.  
**Seeded Preparation:** Loosen upper 3 inches of soil by raking, disking or other acceptable means before seeding.

**Soil Amendments:** Apply 60 lbs. per acre 10-10-10 fertilizer (14 lbs./1000 sq. ft.)

**Seeding:** For periods March 1 thru April 30 and from August 15 thru November 15, seed with 24 bu. per acre of annual ryegrass (2.2 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.

**Mulching:** Apply 1 1/2 to 2 tons per acre (70 to 90 lbs./1000 sq. ft.) of rotted 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 ft. or higher, use 348 gal. per acre (8 gal./1000 sq. ft.) for anchoring.

REFER TO THE 1985 M.D. STANDARD AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR RATE AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR RATE AND METHODS NOT COVERED.



- CONSTRUCTION SPECIFICATIONS:**
- Area under embankment shall be cleared, grubbed and stripped of any vegetation and root mat. The soil area shall be cleared.
  - The fill material for the embankment shall be free of roots and other woody vegetation as well as over sized stones, rocks, organic material or other objectionable material. The embankment shall be compacted by tamping with equipment while it is being constructed.
  - All cut and fill slopes shall be 2:1 or flatter.
  - The stone used in the outlet shall be small rip-rap 4"-8" along with 1" thickness of 2" aggregate placed on the up-grade side on the small rip-rap or embedded filter cloth in the rip-rap.
  - 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 repairs made as needed.
  - Construction operations shall be carried out in such a manner that erosion and water pollution is minimized.
  - The structure shall be removed and the area stabilized when the drainage area has been properly stabilized.
- STONE OUTLET SEDIMENT TRAP (S.O.S.T.) STV.**  
 NO SCALE

**STANDARD AND SPECIFICATIONS FOR VEGETATIVE STABILIZATION WITH SOD**

**SPECIFICATIONS**

- Class of turfgrass sod shall be Maryland or Virginia State Certified, or Maryland or Virginia State approved sod.
- Sod shall be machine cut at a uniform soil thickness of 3/4 inch, plus or minus 1/4 inch, at the time of cutting. Measurement for thickness shall exclude top growth and thatch.
- Standard size sections of sod shall be strong enough to support their own weight and retain their size and shape when suspended vertically with a firm grasp on the upper 10 percent of the section.
- Individual pieces of sod shall be cut to the suppliers width and length. Maximum allowable deviation from standard widths and lengths shall be 5 percent. Broken pads and torn or uneven ends will not be acceptable.
- Sod shall not be harvested or transplanted when moisture content (excessively dry or wet) may adversely affect its survival.
- Sod shall be harvested, delivered and installed within a period of 36 hours. Sod not transplanted within this period shall be inspected and approved prior to its installation.

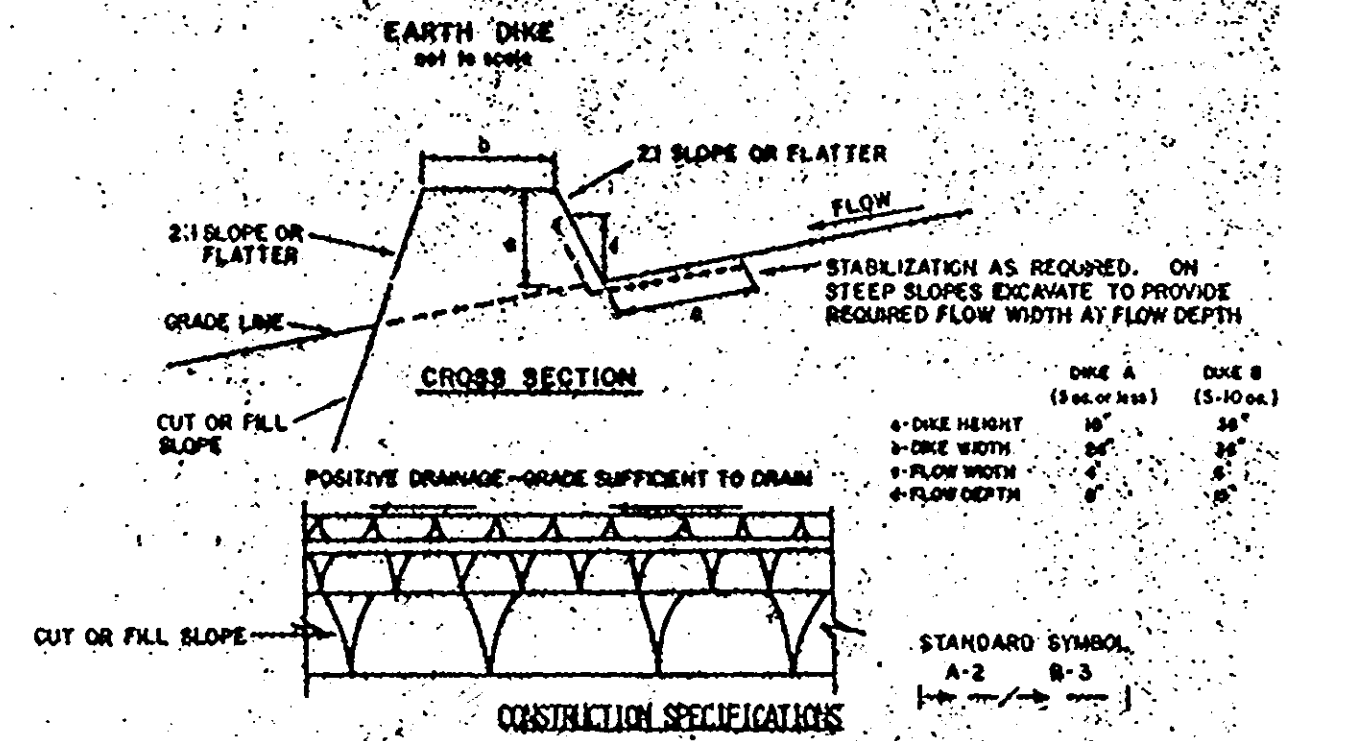
**Site Preparation**  
 Fertilizer and lime application rates shall be determined by soil tests. Under unusual circumstances where there is insufficient time for a complete soil test, fertilizer and lime materials may be applied in amounts shown under B, below.

- Prior to sodding, the surface shall be cleared of all trash, debris, and of all roots, brush, wire, grade stakes and other objects that would interfere with planting, fertilizing or maintenance operations.
- Where the soil is acid or composed of heavy clays, ground limestone shall be spread at the rate of 2 tons/acre or 100 pounds per 1,000 square feet. In all soils, 1,000 pounds per acre or 25 pounds per 1,000 square feet of 10-10-10 fertilizer or equivalent shall be uniformly applied and mixed into the top 3 inches of soil with the required lime.
- All areas receiving sod shall be uniformly fine graded. Hard-packed earth shall be scarified prior to placement of sod.

**SEDIMENT CONTROL NOTES**

- A minimum of 31 hours notice must be given to the Howard County Office of Inspection and Permits prior to the start of any construction. (992-2437)
- All vegetative and structural practices are to be installed according to the provisions of this plan and are to be in conformance with the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.
- Following initial soil disturbance or redisturbance, permanent or temporary stabilization shall be completed within a) 7 calendar days for all perimeter sediment control structures, dikes, perimeter slopes and all slopes greater than 3:1, b) 14 days to all other disturbed or graded areas on the project site.
- All sediment traps/basins shown must be fenced and warning signs posted around their perimeter in accordance with Vol. 1, Chapter 13, of the HOWARD COUNTY DESIGN MANUAL, Storm Drainage.
- All disturbed areas must be stabilized within the time periods specified above in accordance with the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for permanent seedings (Sec. 31) sod (Sec. 36), temporary seeding (Sec. 30) and mulching (Sec. 32). 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 until they are to be maintained in operative condition until permission for their removal has been obtained from the Howard County Sediment Control Inspector.
- Site Analysis:  
 Total Area of Site: 1.81 Acres  
 Area Disturbed: 1.81 Acres  
 Area to be roofed or paved: 0.05 Acres  
 Area to be vegetatively stabilized: 0.75 Acres  
 Total Cut: Cu. yds.  
 Total Fill: Cu. yds.  
 Off-site waste/borrow area location: N/A
- Any sediment control practice which is disturbed by grading activity for placement of utilities must be repaired on the same day of disturbance.
- Additional sediment control must be provided, if deemed necessary by the Howard County DWM 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.
- If houses are to be constructed on an "A-Sod" basis, at random, Single Lot Sediment Control as shown below shall be implemented.
- All pipes to be blocked at the end of each day (see detail below).
- The total amount of straw bale dikes/silt fence equals 0.645 L.F.

- GENERAL NOTES**
- Refer to "1983 Maryland Standards and Specifications for Soil Erosion and Sediment Control for standard details and detailed specifications of each practice specified herein.
  - With the approval of the sediment control inspector, minor field adjustments can and will be made to insure the control of any sediment. Changes in sediment control practices require prior approval of the sediment control inspector and the County Soil Conservation District.
  - At the end of each working day, all sediment control practices will be inspected and left in operational condition.
  - Following initial soil disturbance or redisturbance, permanent or temporary stabilization shall be completed within: a) seven calendar days as to the surface of all perimeter controls, dikes, slopes, ditches, perimeter slopes, and all slopes greater than 3 horizontal to 1 vertical (3:1) and b) fourteen days as to all other disturbed or graded areas on the project site.
  - Any change to the grading proposed on this plan requires re-submission to County Soil Conservation District for approval.
  - Dust control will be provided for all disturbed areas. Refer to 1983 Maryland Standards and Specifications for Soil Erosion and Sediment Control, pp 6301 and 63.02 for acceptable methods and specifications for dust control.
  - Any variation from the sequence of operations stated on this plan requires the approval of the sediment control inspector and the County Soil Conservation District prior to the initiation of the change.
  - Excess cut or borrow material shall go to or come from, respectively, a site with an approved sediment control plan.
- The following item may be used as applicable:
- Refer to "Maryland's Guidelines to Waterway Construction" by the Water Resources Administration (WRMA), dated January, 1986 for standard details and detailed specifications of each practice specified herein for waterway construction.



**FLY CHANNEL STABILIZATION**

TYPE OF TREATMENT	CHANNEL	DIKE A	DIKE B
1	5-5.0X	SEED AND STRAW MULCH	SEED AND STRAW MULCH
2	3-1-5.0X	SEED AND STRAW MULCH	SEED USING JUTE, OR EXCELSION SOD; 2" STONE
3	5-1-8.0X	SEED WITH JUTE, OR SOD	LINED RIP-RAP 4-8"
4	8-1-20X	LINED RIP-RAP 4-8"	ENGINEERING DESIGN

A. Stone to be 2 inch stone, or recycled concrete equivalent, in a layer at least 3 inches in thickness and be pressed into the soil with construction equipment.  
 B. Rip-rap to be 4-8 inches in a layer at least 8 inches thickness and pressed into the soil.  
 C. APPROVED EQUIVALENTS CAN BE SUBSTITUTED FOR ANY OF THE ABOVE MATERIALS.  
 PERIODIC INSPECTION AND REQUIRED MAINTENANCE MUST BE PROVIDED AFTER EACH RAIN EVENT.

**EARTH DIKE**  
 NO SCALE

**APPROVED**  
 DIVISION OF PLANNING & LAND DEVELOPMENT  
 HOWARD COUNTY, MARYLAND  
 DATE: 5-22-89  
 LKS

APPROVED FOR PUBLIC WATER AND SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT  
 COUNTY HEALTH OFFICER: [Signature] 7-31-89  
 APPROVED HOWARD COUNTY DEPT. OF PLANNING & ZONING  
 PLANNING DIRECTOR: [Signature] 7/28/89  
 CHIEF DIVISION OF COMMUNITY PLANNING & LAND DEVELOPMENT  
 APPROVED FOR PUBLIC WATER, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
 DIRECTOR: [Signature] 8/7/89  
 CHIEF BUREAU OF ENGINEERING: [Signature] 8-4-89

Reviewed for Name: SCD  
 and technical requirements  
 Signature: [Signature] 7/18/89  
 U.S. SOIL CONSERVATION SERVICE  
 THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY HOWARD COUNTY SOIL CONSERVATION DISTRICT.  
 Approved: [Signature] 7/18/89  
 Date: 7/18/89

**DEVELOPER'S/BUILDER'S CERTIFICATE**  
 I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND PLAN FOR EROSION AND SEDIMENT CONTROL AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPT. OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD COUNTY SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY.  
 DEVELOPER/BUILDER: [Signature] 7/19/89  
 DATE: 7/19/89

**ENGINEER'S CERTIFICATE**  
 I HEREBY 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 COUNTY SOIL CONSERVATION DISTRICT.  
 ENGINEER: [Signature] 5-22-89  
 DATE: 5-22-89

**LORIA ENGINEERING, INC.**  
 Engineers • Site Planners • Surveyors  
 2665 ELLICOTT MILLS DRIVE  
 ELLICOTT CITY, MD 21104  
 (301) 469-7777

**SEDIMENT & EROSION CONTROL DETAILS**

**J & R DORSEY**  
 6TH ELECTION DISTRICT, TAX. MAP 48, PARCEL 113  
 HOWARD COUNTY, MD. 20794

OWNER: JEFF LILLY  
 J & R ROOFING INC.  
 2710 JESSUP RD.  
 JESSUP, MD. 20794

DESIGNED: [Signature]  
 DRAWN: [Signature]  
 CHECKED: [Signature]  
 DATE: [Signature]

SCALE: AS SHOWN  
 DRAWING: 5 of 5  
 JOB NO.:  
 FILE NO.: