Reference

Project 367. 13-956, Claridge Rd.

S.D. 5-046 Mont. Highlands Est.

Paving 58-196 " " "

3-3-69 R.E.L.

NUMBER	REVISION	DATE

DES. ____
DR. ____
CHK. ____
REVISIONS

MONTGOMERY COUNTY MARYLAND
DEPARTMENT OF PUBLIC WORKS
ROCKVILLE, MD.

Moline Road

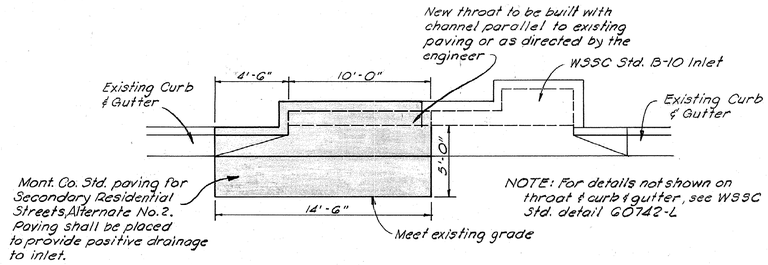
APPROVED

CHIEF - BUR. OF ENG'G. DEP. DIRECTOR, DEPT. OF PUB. WKS.

PROJECT: 688351 DWG: OF

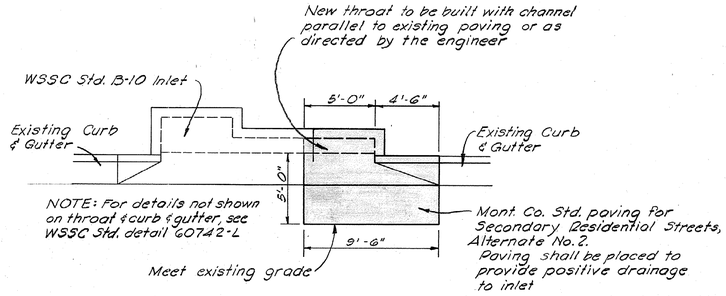
SD FILE NO. 89

CE 487-88 -1



STRUCTURE NO. 1-5

Scale: 1" = 5'



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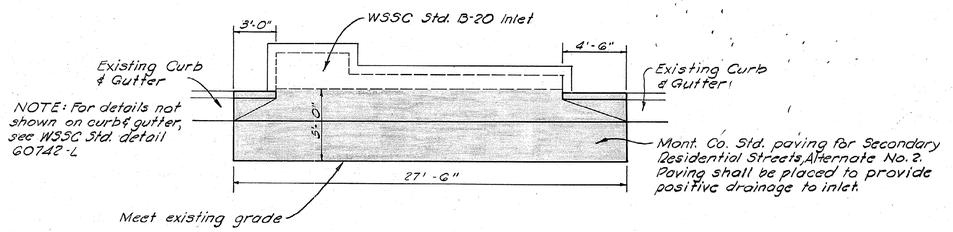
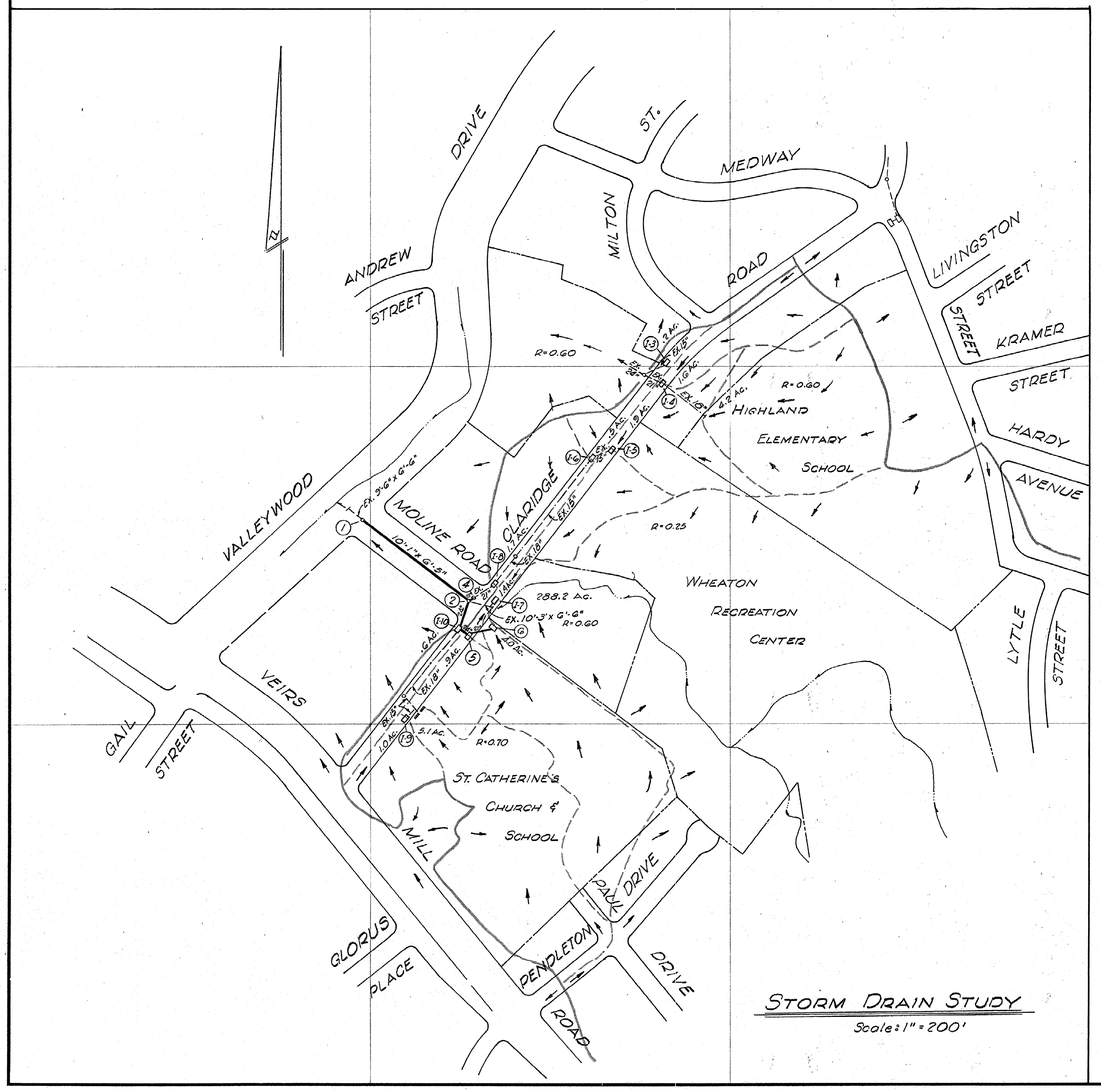
Scale: 1" = 5'



STRUCTURE NO. 5

Scale: 1" = 5'



STORM DRAIN STUDY

Scale: 1" = 200'

APPROVED FOR SEDIMENT CONTROL BY MONTGOMERY SOIL CONSERVATION DISTRICT

Grover Walker 11-21-73
SUPERVISOR DATE

Reviewed for Montgomery S.C.D.
Name
and meets Technical Requirements
James E. Shirk Date 11/21/73
Signature
U.S. Soil Conservation Service

NUMBER	REVISION	DATE
	S.D.S. revised & Inlet I-7 detail removed.	Jan. 1970

DES. RA
DR. RA
CHK. JLS

REVISIONS

MONTGOMERY COUNTY MARYLAND
DEPARTMENT OF TRANSPORTATION
ROCKVILLE, MD.

STORM DRAINS
MOLINE ROAD
WHEATON DISTRICT
SCALE: AS SHOWN APRIL, 1969

APPROVED 11/8/73
E. James Sayer — CHIEF, DIV. OF TRANS. ENG'G.
R.D. Lynch — DIRECTOR, DEPT. OF TRANS.

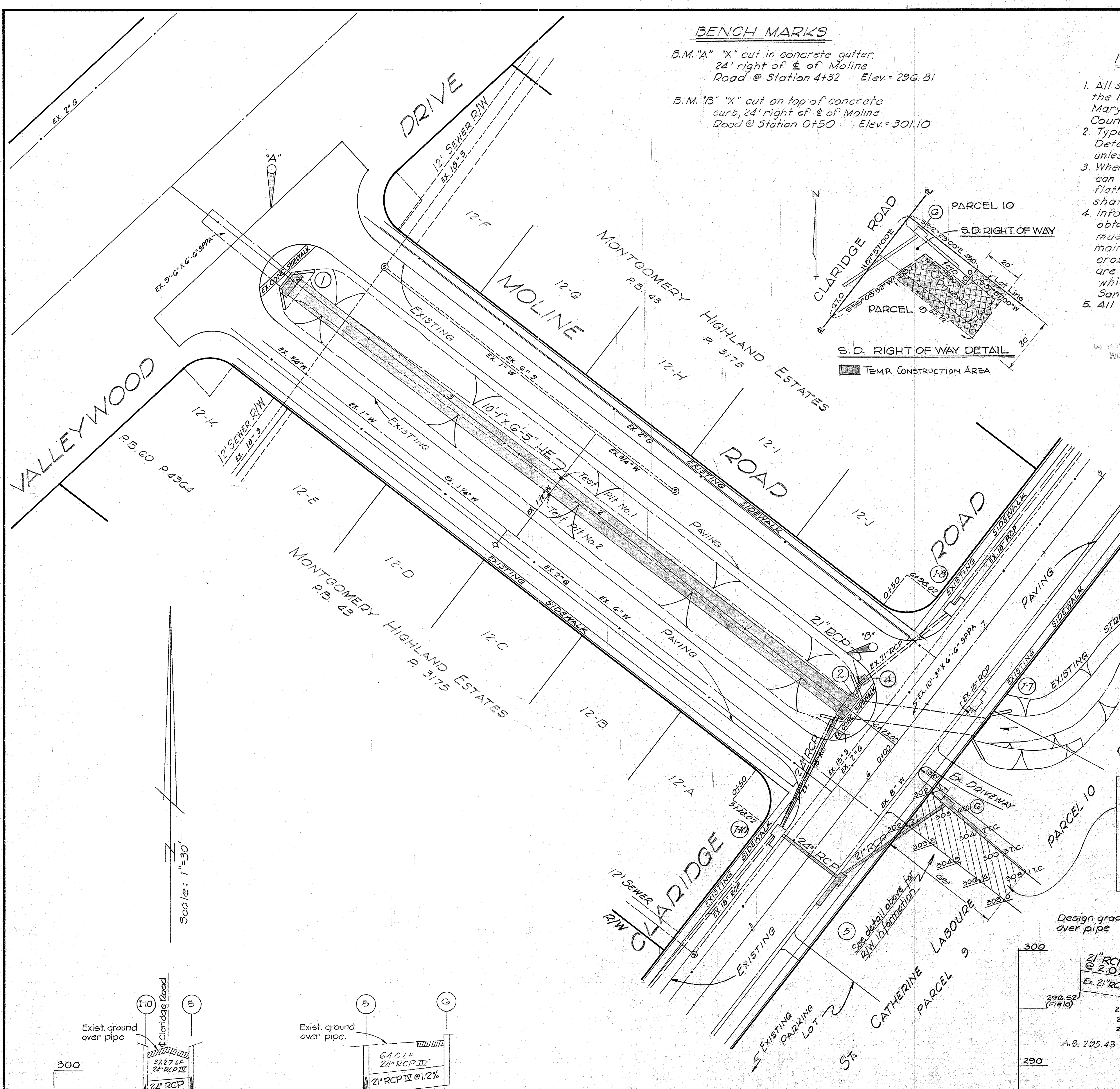
PROJECT: 688351
DWG: 3 OF 3

This permit updated see permit # 74082

W.S.S.C. P.N. 71022
FOR USE IN PUBLIC SPACE SUBJECT TO PRIOR INSTALLATION OF WATER & SEWER AND PAYMENT FOR MOVING ANY W.S.S.C. STRUCTURES AFFECTED.

SD FILE NO. 89

CE487-88-2



BENCH MARKS

B.M. "A" "X" cut in concrete gutter, 24' right of ℄ of Moline Road @ Station 4+32 Elev. = 296.81

B.M. "B" "X" cut on top of concrete curb, 24' right of ℄ of Moline Road @ Station 0+50 Elev. = 301.10

GENERAL NOTES

FOR STORM DRAIN CONSTRUCTION

1. All storm drains shall be constructed in accordance with the latest Edition of the General Specifications of the Maryland State Highway Administration and Montgomery County.
2. Types of structures refer to the Standard Storm Drainage Details of the W.S.S.C., M.S.H.A. and Montgomery County, unless otherwise noted.
3. Where the drop on the main line through a structure can be accommodated by an invert slope of 1½:1 or flatter, a rounded channel lined with sewer brick on edge shall be built to the crown of the pipes.
4. Information concerning underground utilities was obtained from available records, but the Contractor must determine the exact location and elevations of the mains by digging test pits by hand at all utilities crossings, well in advance of trenching. If clearances are less than shown on this plan or six (6) inches, whichever is less, contact Washington Suburban Sanitary Commission before proceeding with construction.
5. All structural concrete shall be M.S.H.A. Class A-1.

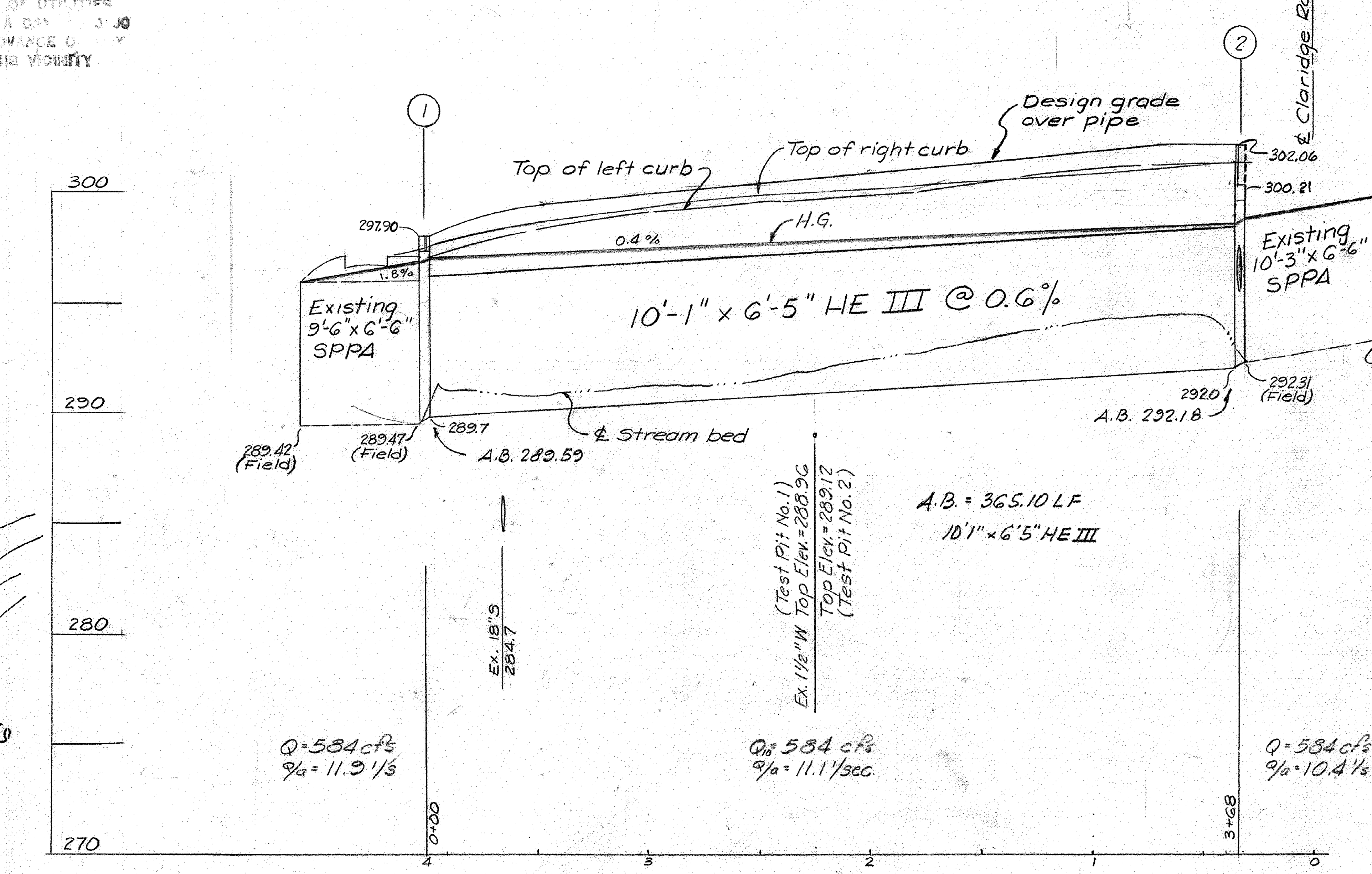
... LOCATION OF UTILITIES ... HOURS A DAY ... 48 HOURS IN ADVANCE ... WORK IN THIS VICINITY

STRUCTURE SCHEDULE					
No.	Type	Top Elev.	℄ Station		Remarks
1	Spec. Manhole	297.90	4+00	2' Lt.	See detail sht. 1 of 3
2	Spec. Manhole	302.06	0+32	on ℄	See detail sht. 1 of 3
4	Junction Box	298.40	0+34	17' Rt.	See detail sht. 1 of 3
5	B-20 Inlet (W-2.50)	⌗	5+50	⌗ Rt.	See detail sht. 3 of 3
6	B-30 Inlet (W-2.50)	⊙			W.S.S.C. Std. B-20 with 10' Throat Extension.
I-5	Throat Extension		11+86 ±	⌗ Rt.	See detail sht. 3 of 3
I-9	Throat Extension		2+75 ±	⌗ Rt.	See detail sht. 3 of 3

⌗ Meet existing curb horizontally & vertically
⊙ Top Up = 305.30 ~ Top Down = 303.00

PIPE SCHEDULE		
Size	Type	Length
21"	RCP IV	75'
24"	RCP IV	104'
* 10'-1" x 6'-5"	HE III	364'

* Sand bedding to be provided from spring line to 4" below pipe by trench width. Sand to have graduation as per M.S.H.A. specification for mortar sand, section 20.02-8, size B.



PROFILES

Scale: Vert. 1" = 5'
Hor. 1" = 50'

Reconstruct driveway where shown thus ▨

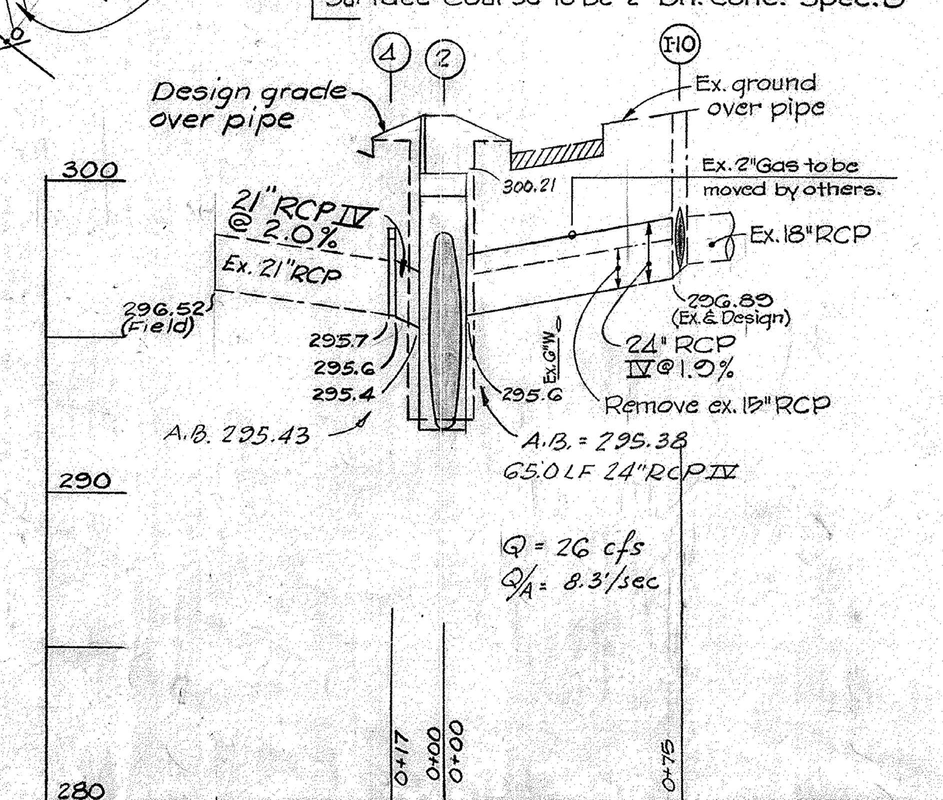
Construct Mont. Co. Std. 10-A conc. curb & gutter on N. side for length of new paving.

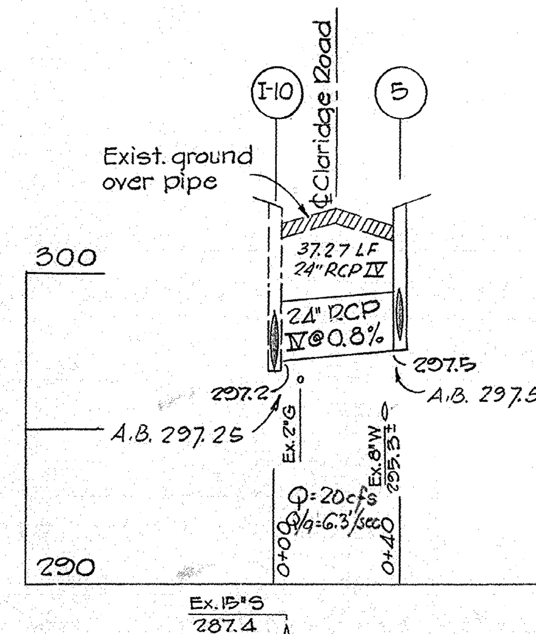
Edge of paving grades are shown.. 304.9

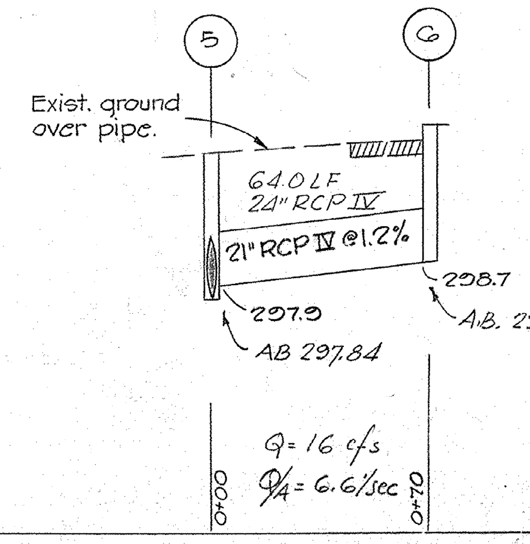
Top of curb grades are shown.. 304.7 T.C.

Base Course to be 4" Bit. Conc. - Spec. B

Surface Course to be 2" Bit. Conc. - Spec. B







W.S.S.C. PERMIT # DM-9117 FOR WORK IN PUBLIC SPACE

W.S.S.C. P.N. 71022
FOR WORK IN PUBLIC SPACE SUBJECT TO PRIOR INSTALLATION OF WATER & SEWER AND PAYMENT FOR MOVING ANY W.S.S.C. STRUCTURES AFFECTED.

215NW3

W.S.S.C. P.N. * 74022
... IN PUBLIC SPACE SUBJECT TO PRIOR ... OF WATER & SEWER AND PAYMENT ... ANY W.S.S.C. STRUCTURES AFFECTED.

* This permit is to up date permit # 71022

APPROVED FOR SEDIMENT CONTROL BY MONTGOMERY SOIL CONSERVATION DISTRICT
[signature] 11-21-73
SUPERVISOR DATE

Reviewed for Montgomery S.C.D.
Name
and meets Technical Requirements
[signature] Date 11/21/73
Signature
U.S. Soil Conservation Service

I hereby certify that this plan has been designed in accordance with M.C.D.P.W. interim Storm Drain Design Criteria dated July 1, 1968.

STATE OF MARYLAND — CHARLES EMIL OFENSTEIN — No. 6917 — REGISTERED PROFESSIONAL LAND SURVEYOR

[signature]

NUMBER	REVISION	DATE
3	As built data	9/6/74
2	R/W data	Oct. 1973
1	General revisions - Plan & Profiles	Jan. 1970

DES. PH
DR. PH/MWS
CHK. [initials]
REVISIONS

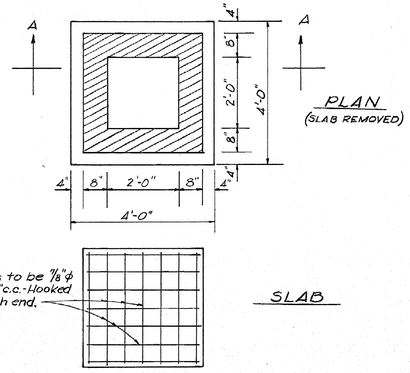
MONTGOMERY COUNTY MARYLAND
DEPARTMENT OF TRANSPORTATION
ROCKVILLE, MD.

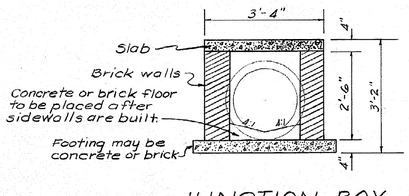
STORM DRAINS
MOLINE ROAD
WHEATON DISTRICT
SCALE: AS SHOWN APRIL, 1969

APPROVED Nov. 8, 1973
E. James Sayer — CHIEF, DIV. OF TRANS. ENG'G.
R. J. Lynch — DIRECTOR, DEPT. OF TRANS.
PROJECT: 688351 DWG: 2 OF 3

SD FILE NO. 89

CE 487-88 -3



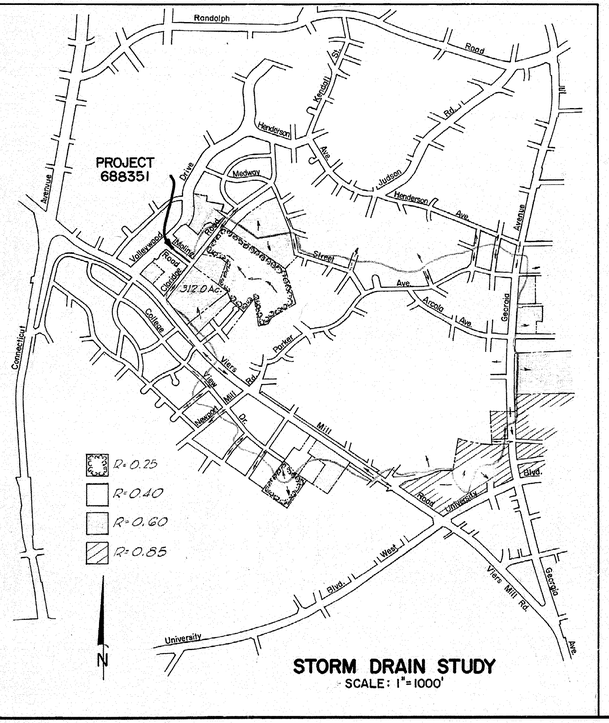


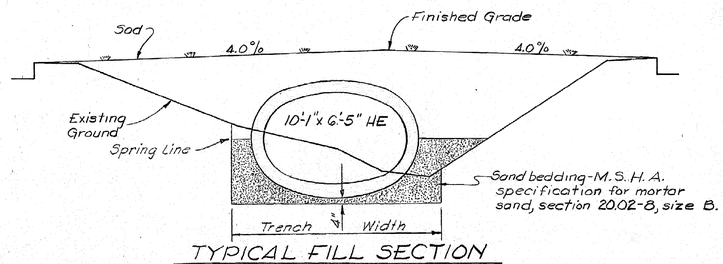
SECTION "A"-"A"

JUNCTION BOX

Scale: ½"=1'-0"

STRUCTURE NO.4





TYPICAL FILL SECTION

Vicinity Sta. 2+50

Scale: 1"=5'

SEDIMENT CONTROL NOTES

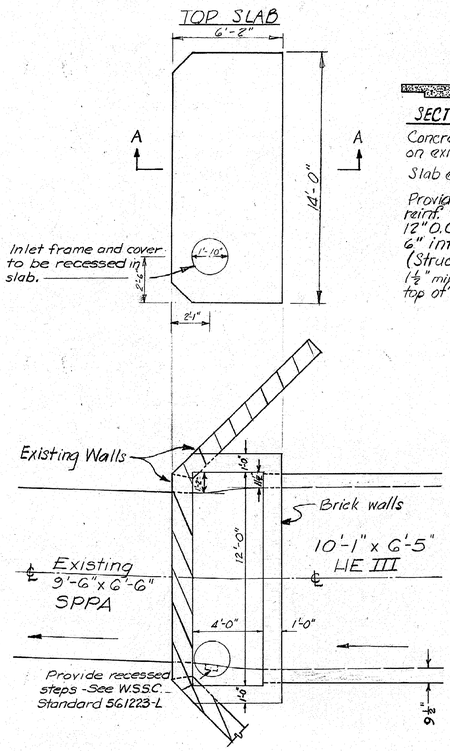
1. All erosion and sediment control measures are to be constructed and maintained in accordance with applicable published "Standards and Specifications for Soil Erosion and Sediment Control in Urbanizing Areas".
2. All points of construction ingress and egress will be protected to prevent tracking of mud onto public ways.
3. All sediment will be prevented from entering any storm drainage system, i.e., through use of sand bags, gravel, boards or other applicable methods.
4. Trench widths will be kept to a minimum to safeguard trees and minimize grading. Contractor shall install sheeting and shoring as dictated by safety requirements, a maximum of 50' length of excavated trench may be left open at any one time.
5. Approval of the Sediment Control Plan for this project is conditioned upon approval of a sediment control plan for off-site waste and/or borrow areas. Before the final award of the contract, the contractor must submit plans approved by the Sediment Control Section, Dept. of Environmental Protection, for conformance with the Sediment Control Ordinance, Chapter 83-A, Montgomery County Code 1965 as amended, for all off-site waste and/or borrow areas.
6. Sod all disturbed areas in accordance with the above-mentioned standards and specifications immediately after completion of finished grading.
7. The Contractor shall be responsible for insuring that minimum sediment leaves the site by installation of sediment control measures/structures as deemed necessary by the Inspector.

BUILDER'S CERTIFICATE

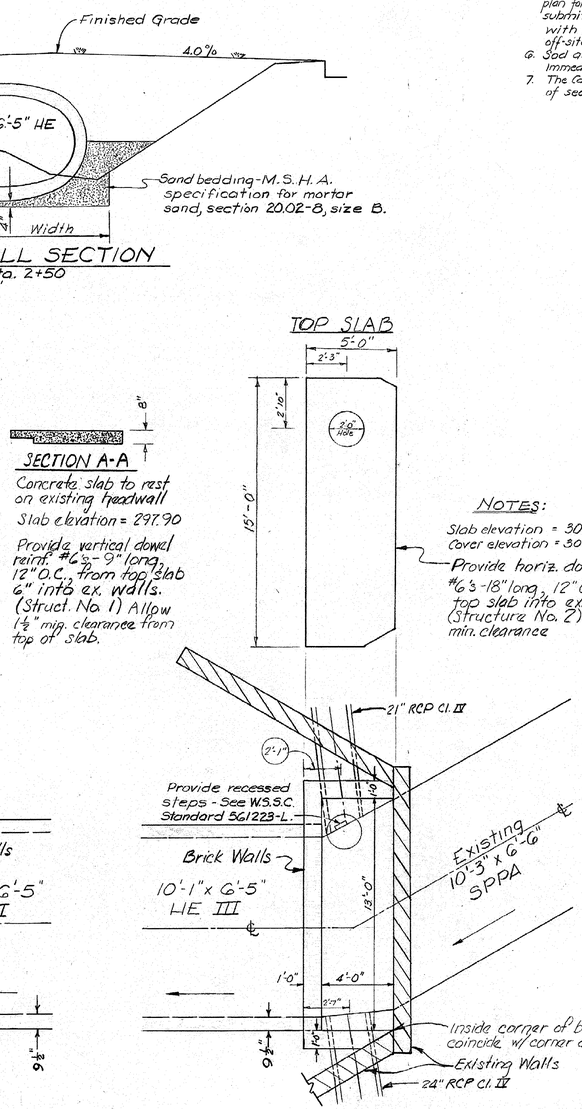
I hereby certify that all clearing, grading, construction and/or development will be done in accordance with this plan.

11/8/73
DATE

Richard J. Lynch, Director
Department of Transportation



STRUCTURE NO. 1



STRUCTURE NO. 2

SECTION A-A

Concrete slab to rest on existing headwall

Slab elevation = 297.90

Provide vertical dowel reinf. #6's - 9" long, 12" O.C., from top slab 6" into ex. walls. (Struct. No. 1) Allow 1⅝" min. clearance from top of slab.

NOTES:

Slab elevation = 300.21

Cover elevation = 302.06

Provide horiz. dowel reinf. #6's - 18" long, 12" O.C., from top slab into ex. walls. (Structure No. 2) Allow 1½" min. clearance

SPECIAL MANHOLES

Scale: ¼"=1'-0"

For details not shown see W.S.S.C. std. 561217L for type B Manhole.

Existing walls to be left intact - Structures No. 1 & 2

Provide dowel reinf. #6's - 18" long, 12" O.C., from new footings into ex. footings.

Remove ex. handrails - fill holes with grout - Structures No. 1 & 2

W.S.S.C. PERMIT # 9117 FOR WORK IN PUBLIC SPACE

This permit updated, See permit # 74022

W.S.S.C. P.N. FOR WORK IN PUBLIC SPACE SUBJECT TO PRIOR INSTALLATION OF WATER & SEWER AND PAYMENT FOR MOVING ANY W.S.S.C. STRUCTURES AFFECTED.

I hereby certify that the Sediment Control Plan for this project has been prepared in accordance with "Standards and Specifications for Soil Erosion and Sediment Control in Urbanizing Areas" Montgomery County D.O.T. "Interim Storm Drain Design Criteria" dated July 1, 1968, and that the total amounts of excavation and borrow are estimated to be 630 and 1185 cubic yards, respectively

STATE OF MARYLAND — No. 8027 — REGISTERED PROFESSIONAL ENGINEER

APPROVED FOR SEDIMENT CONTROL BY MONTGOMERY SOIL CONSERVATION DISTRICT

Grover Walker 11-21-73
SUPERVISOR DATE

Reviewed for Montgomery Soil Conservation District and meets minimal requirements.

James E. Ellis Date 11/21/73
Signature
U.S. Soil Conservation Service

12/21/73

NUMBER	REVISION	DATE
2.	Revisions to Str. No. 1 & 2	10-24-73
1.	Certificates & Sediment Control Notes	10-18-73

DES. PA
DR. PA MWS
CHK. DLS

REVISIONS

MONTGOMERY COUNTY MARYLAND
DEPARTMENT OF TRANSPORTATION
ROCKVILLE, MD.

STORM DRAINS

MOLINE ROAD

WHEATON DISTRICT

SCALE: As Shown APRIL, 1969

APPROVED Nov. 8, 1973

E. James Sayer
CHIEF, DIV. OF TRANS. ENG'S.

R. J. Lynch
DIRECTOR, DEPT. OF TRANS.

PROJECT: 688351 DWG: 1 OF 3

CE 487, 88 -4

SD FILE NO. 89