APPROVED
DIVISION OF LAND DEVELOPMENT
AND TRANSPORTATION PLANNING
HOWARD COUNTY, MARYLAND
DATE Aug 20 1973

6/11/73
Date

Reg. No. 4575

DRAWN BY: A.R. Zierden
DESIGNED BY: C.J. Crovo
CHECKED BY: R.B. Carter

PURDUM AND JESCHKE
CONSULTING ENGINEERS AND
LAND SURVEYORS
1023 N. CALVERT STREET
BALTIMORE, MARYLAND 21202

OWNER AND DEVELOPER
THE DEVELOPMENT AND INVESTMENT
CORPORATION OF MARYLAND
9998 OLD ANNAPOLIS ROAD
ELLICOTT CITY, MARYLAND 21043

Section 14

PLAN AND PROFILE: GWYNN PARK DRIVE

GWYNN ACRES

2ND ELECTION DISTRICT
JUNE 22, 1973
HOWARD COUNTY, MARYLAND
SHEET 1 OF 2
SCALE AS SHOWN

DEPARTMENT OF PUBLIC WORKS
CHIEF, BUREAU OF HIGHWAYS — 9/7/73 DATE

OFFICE OF PLANNING AND ZONING
CHIEF, DIVISION OF LAND DEVELOPMENT AND TRANSPORTATION PLANNING — 9/5/73 DATE

PLAN — SURVEYED, PLOTTED, NOTE BOOK, No., ALIGNMENT CHECKED, RT. OF WAY CHECKED, BY, DATE

GWYNN ACRES SECTION 2 P.B. 9 F. 45
LOT 1
LOT 4
LOT 5
LOT 21
LOT 22
LOT 23
LOT 24
LOT 25
LOT 26
LOT 27
LOT 28
LOT 29
LOT 19
Existing 50' R/W
Existing 30' Paving
Existing 18" RCCP
20' Drainage Easement
Connect Existing 18" RCCP to Inlet I-1
Remove Existing Temporary Tee Turn Around and Dead End Barricade
I-2 TOP ELEV 342.14
S-2 TOP ELEV 344.95
℄ STA 2+65 TOP ELEV 344.95
Limit of Section 2 Sta. 2+59.87
Sodded Channel (See Detail Sheet 2)
20' Drainage Easement
3:1
Temporary Sediment Control Berm
100 YEAR FLOOD PLAIN AND DRAINAGE EASEMENT
Match Line P-1
LITTLE PATUXENT RIVER
Loose Laid Rip-Rap (Min. 50# Stone) over Poly Filter-X
Contractor Shall Divert Proposed Channel To Drain Along and Behind Temporary Sediment Control Berm During Construction
36" RCCP CLASS III (Bed.)
PC STA 2+93.87
LOT 19 ℄ CURVE DATA
R= 155.00
Δ= 80°06'51"
T= 130.32'
L= 216.73'
Chd= S 32°40'40"E
119.50'
℄ STA. 5+76.44= STA. 0+00 LINEAR PROFILE BEGIN
7" STANDARD CONCRETE CURB & GUTTER
PT STA 5+07.18
GWYNN PARK DRIVE
Bituminous Mountable Curb
30' Paving
50' R/W
Bituminous Mountable Curb
0+50
1+00
1+50
2+00
+37.60 44'
STA. 1+39 TOP ELEV. 340.29
I-1
Lot Line
20' Drainage and Utility Easement (Sodded Channel (See Detail Sheet 2))
15" RCCP CLASS III (92')
TOP ELEV. 331.36
S-1
R=35'
Dispurse on Undisturbed Ground
Transition Channel to Meet Existing Ground
Sediment Control Dike With Stone Filter Outlet (See Sheet 2)
Loose Laid Rip Rap (Min 50# Stone Over Poly Filter-x
Existing 6' Swale
20" RCCP
20' Drainage Easement
TOP ELEV. 354.31
S-3
Building Restriction
95'
120'
88'
64'
Temporary Sediment Control Berm
Proposed 4' Conc. Sidewalk, See detail
10' R/W For Pedestrian Walkway
℄ STA. 5+76.44= STA. 0+00 LINEAR PROFILE BEGIN 3' UNIT OF STANDARD CONCRETE CURB AND GUTTER
Note: Contractor Shall Remove 67 Cubic Yards of Earth to form Basin in Back of Dike

Design Speed 25 m.p.h.
Zoned R-20

25'-0" | 50' R/W | 25'-0"
10'-0" | 15'-0" | 15'-0" | 10'-0"
2:1 Max
1/2"/1'-0" | 3/8"/1'-0" | 3/8"/1'-0" | 1/2"/1'-0"
Bituminous Mountable Curb D-39 page 94
Tack coat in accordance with section C-31-4 of the Howard County Road Construction Code and Standard Specifications.
For paving section alternates, see dwg. D-3, page 58; dwg. D-4, page 59; dwg. D-5, page 60 of the Howard County Road Construction Code and Standard Specifications.
Base will be primed in accordance with section C-30-3 of the Howard County Road Construction Code and Standard Specifications.

TYPICAL SECTION
GWYNN PARK DRIVE
NO SCALE

10' R/W
5'-0" | 4'-0"
Class 'A' Conc.

DETAIL CONC. SIDEWALK BETWEEN LOTS 25 & 26
NO SCALE

Loose Laid Rip Rap (Min. 50# Stone) Over Poly Filter-x
Transition Side Slopes of Sodded Channel to Meet Existing Bank
Sodded Channel (See Detail Sheet 2)
PARK DRAINAGE AND UTILITY RESERVATION
Match Line P-1
LITTLE PATUXENT RIVER

PROFILE — SURVEYED, PLOTTED, NOTE BOOK, GRADES CHECKED, R/W AND NOTATIONS CHECKED, No., BY, DATE

GWYNN PARK DRIVE

PROFILES
SCALE: 1" = 50' HOR.
1" = 5' VERT

VERTICAL CURVE DATA
LENGTH= 230'
PVI STA. 4+98.
PVI ELEV. 350.76
CORR= -2.73
SSD= 185'

VERTICAL CURVE DATA
LENGTH= 100'
PVI STA 2+90
PVI ELEV. 344+50
CORR= +0.5'
HSD= 200'

PVC STA. 2+40
LIMIT OF SECTION 2-59.87 ELEV. 344.88
SUMP STA. 2+90 ELEV. 344.88
PVT STA. 3+40 ELEV. 346.09
PVC STA 3+83 ELEV. 347.29
Ex. ground @ Right Restriction Line
Ex. ground @ ℄
Ex ground @ Left Restriction Line
Existing ℄ Paving
-1.00%
+3.00%
-6.60%
℄ STA 5+76.44= STA 0+00 LINEAR PROFILE BEGIN
345.37
℄ STA 5+76.44= STA 0+00 LINEAR PROFILE T.C. ELEV. 345.44

LINEAR PROFILE

VERTICAL CURVE DATA
LENGTH= 140'
PVI STA 1+39
PVI ELEV. 338.49
CORR= +1.75

PVC STA 0+69 T.C. ELEV. 341.99
SUMP STA 1+39 T.C. ELEV. 340.24
PVT STA 2+09 T.C. ELEV. 341.99
-5.00%
+5.00%
Existing Ground @ Curb
℄ STA 5+76.49= STA 2+78.3 Linear Profile T.C. ELEV. 345.44

365 360 355 350 345 340 335 330 325 320

344.30 345.12 345.60 347.74 348.19 348.37 348.32 347.87 347.39 346.54 345.44

T.C. 342.24 T.C. 341.70 T.C. 340.78 T.C. 340.31 T.C. 340.28 T.C. 340.70 T.C. 341.57 T.C. 344.09

RP 57

K&E PLATE 1, PLAN PROFILE
KEUFFEL & ESSER CO.
48 7024 MADE IN U.S.A.

9-24-73

F-73-95

DEVELOPER S CERTIFICATE

I certify that all development and/or construction will be done according to this plan of development and plan for Erosion and Sediment Control, and I also authorize periodic on-site inspection by the Howard Soil Conservation District or their authorized agents, as are deemed necessary. Deviation from this plan will not be made unless authorized by the Howard Soil Conservation District.

Richard Kneller — Date

ENGINEER S CERTIFICATE

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.

Signature of Engineer — 6/21/73 Date

Reviewed for Howard County Soil Conservation District and meets Technical Requirements.

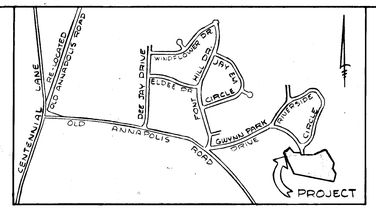
Charles E. Mullen Jr. — U.S. Soil Conservation Service — 9/13/73 Date

This development plan is approved for Soil Erosion and Sediment Control by the Howard Soil Conservation District.

APPROVED: Robert W. Sidhom — District Coordinator, Howard Soil Conservation District — 9/13/73 Date

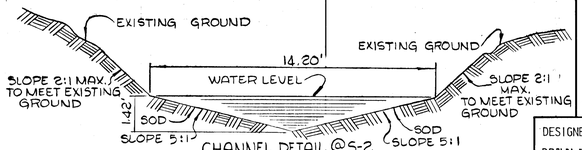
SEDIMENT CONTROL NOTES

1) The developer shall notify the Howard County Soil Conservation District at least 24 hours prior to beginning any construction shown hereon (465-3180).
2) Berms, sediment traps, etc., to be constructed prior to any onsite grading or disturbance to any existing surface material, and are to be stabilized as soon as constructed.
3) All sediment control structures to remain in place until permission for their removal has been obtained from the Howard Soil Conservation District. (465-3180 or 465-5000 Ext. 291)
4) All graded areas not to be sodded shall be stabilized by seeding and mulching in accordance with the following:
   1. Site preparation:
      A. Harrow or disc in areas proposed to be seeded the following materials at the specified rate, to a depth of 3".
         1) Pulverized limestone at 1 1/2 tons/acre.
         2) Commercial fertilizer 5-10-10 at 3/4 tons/acre.
         3) Super phosphate at 600 lbs/acre.
   2. Seeding:
      A. Sow the following seed mixture at the rate of 200 lbs/acre with a mechanical spreader.
         1) 20% Annual Rye Grass
         2) 80% Kentucky 31 Fescue
      B. The seeded area shall then be raked with a York Rake (minimum of 2 passes), covered and compacted with Cultipacker or other approved method.
   3. Mulching:
      A. Seeded areas shall be uniformly mulched immediately after seeding with unweathered small grain straw at the rate of 1 1/2 to 2 tons/acre.
      B. Tie mulch down with liquid asphalt at 0.1 gal/s.y. or emulsified asphalt at 0.04 gal/s.y. or mulch netting.



VICINITY MAP
SCALE: 1" = 1200'

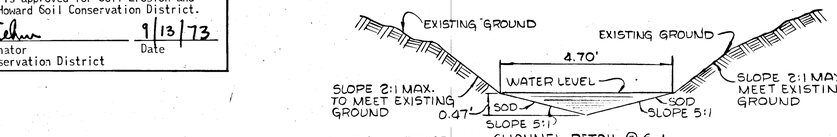
STRUCTURE SCHEDULE					
STRUCTURE	TYPE	INV. IN	INV. OUT	TOP ELEV.	STD DETAIL
I-1	A-5	———	336.49	340.24	P.119-A D-64A
I-2	A-5	339.04	338.79	344.95	P.119-A D-64A
I-3	A-10	341.50	339.88	344.95	P.119-A D-64A
S-1	"C"	———	329.36	331.36	P.107 Dwg. D-52
S-2	"C"	———	338.14	342.14	P.107 Dwg. D-52
S-3	"E"	350.81	———	354.31	P.107 Dwg. D-52



CHANNEL DETAIL @ S-2
NO SCALE

CHANNEL DESIGN DATA	
A = 10.08 sf	S = 2.00%
P = 14.48'	S 1/2 = 0.1414
R = 0.70	n = 0.03
R 2/3 = 0.788	WATER DEPTH = 1.42'

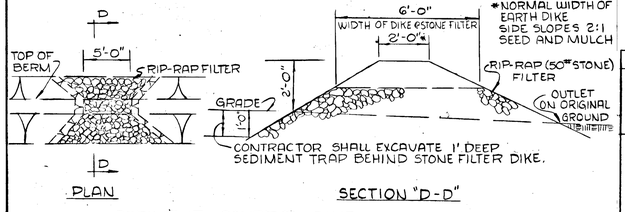
V = 1.485/n × R 2/3 × S 1/2
V = 1.485/0.03 × 0.788 × 0.1414
V = 5.5 fps
Q = AxV
Q = 10.08 × 5.5
Q = 55.4 cfs



CHANNEL DETAIL @ S-1
NO SCALE

CHANNEL DESIGN DATA	
A = 1.10 sf	S = 2.40%
P = 4.80'	S 1/2 = 0.1549
R = 0.23	n = 0.03
R 2/3 = 0.375	WATER DEPTH = 0.47'

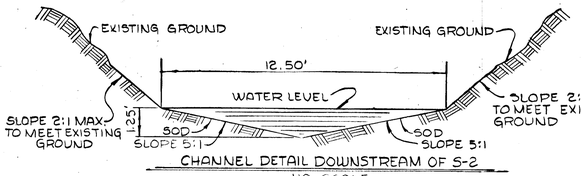
V = 1.485/n × R 2/3 × S 1/2
V = 1.485/0.03 × 0.375 × 0.1549
V = 2.9 fps
Q = AxV
Q = 1.10 × 2.9
Q = 3.2 cfs



SEDIMENT CONTROL DIKE WITH STONE FILTER OUTLET
NO SCALE

GENERAL NOTES

1.) All construction shown hereon shall be in accordance with the Howard County Road Construction Code and Standard Specifications dated November 27, 1962 and revised August 1967.
2.) Reference to page and drawing numbers shown hereon are referred to the above mentioned Road Construction Code and Standard Specifications
3.) Design Speed - 25 mph.



CHANNEL DETAIL DOWNSTREAM OF S-2
NO SCALE

CHANNEL DESIGN DATA	
A = 7.81 sf	S = 4.00%
P = 12.74'	S 1/2 = 0.2000
R = 0.61	n = 0.03
R 2/3 = 0.719	WATER DEPTH = 1.25'

V = 1.485/n × R 2/3 × S 1/2
V = 1.485/0.03 × 0.719 × 0.2000
V = 7.1 fps
Q = AxV
Q = 7.81 × 7.1
Q = 55.5 cfs

6/21/73 — Date

Reg. No. 4575

DESIGNED BY: C.J. Crovo
DRAWN BY: A.R. Zierden
CHECKED BY: R.B. Carter

PURDUM AND JESCHKE
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CHIEF, BUREAU OF HIGHWAYS — 9/7/73 DATE

OFFICE OF PLANNING AND ZONING
CHIEF, DIVISION OF LAND DEVELOPMENT AND TRANSPORTATION PLANNING — 9/5/73 DATE

Section II

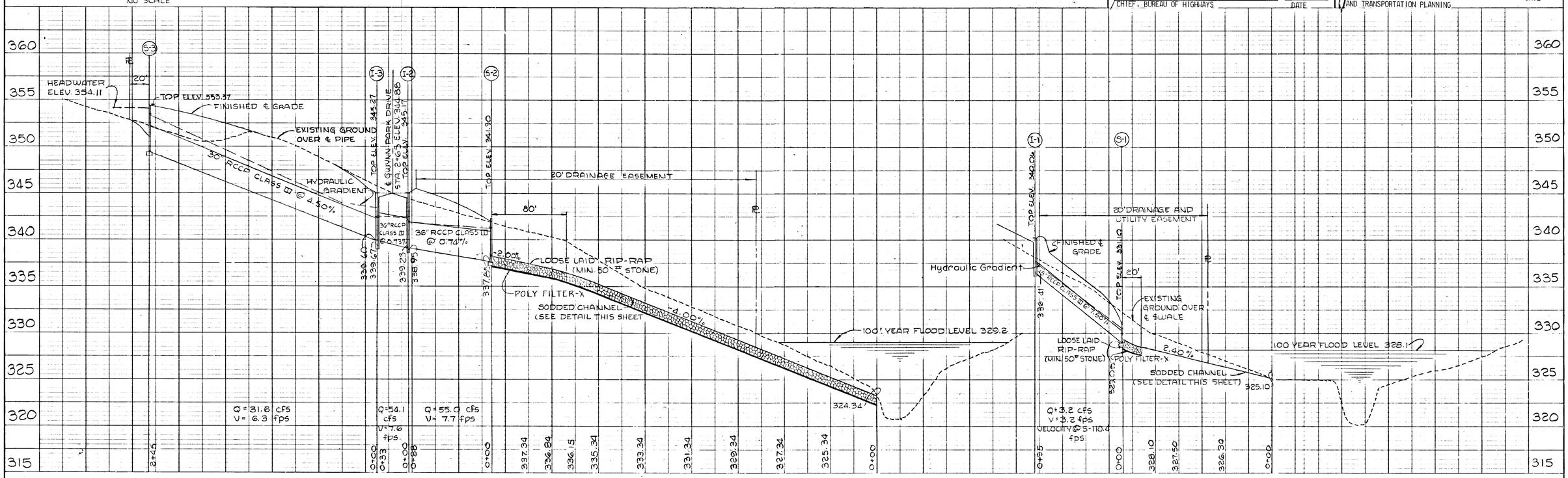
STORM DRAIN PROFILES AND DETAILS

GWYNN ACRES

2ND ELECTION DISTRICT — HOWARD COUNTY, MARYLAND
JUNE 22, 1973 — SHEET 2 OF 2 — SCALE AS SHOWN

PLAN — SURVEYED, DESIGNED, DRAWN, ALIGNMENT CHECKED, R/W CHECKED, NOTE BOOK, No., DATE, BY

PROFILE — SURVEYED, DESIGNED, DRAWN, GRADES CHECKED, R. M.'s NOTED, STRUCTURE EXCAVATIONS CHECKED, NOTE BOOK, No., DATE, BY



K&E PLATE 1, PLAN PROFILE
KRUFFEL & ESSER CO.
48 7024 MADE IN U.S.A.

9-27-76

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