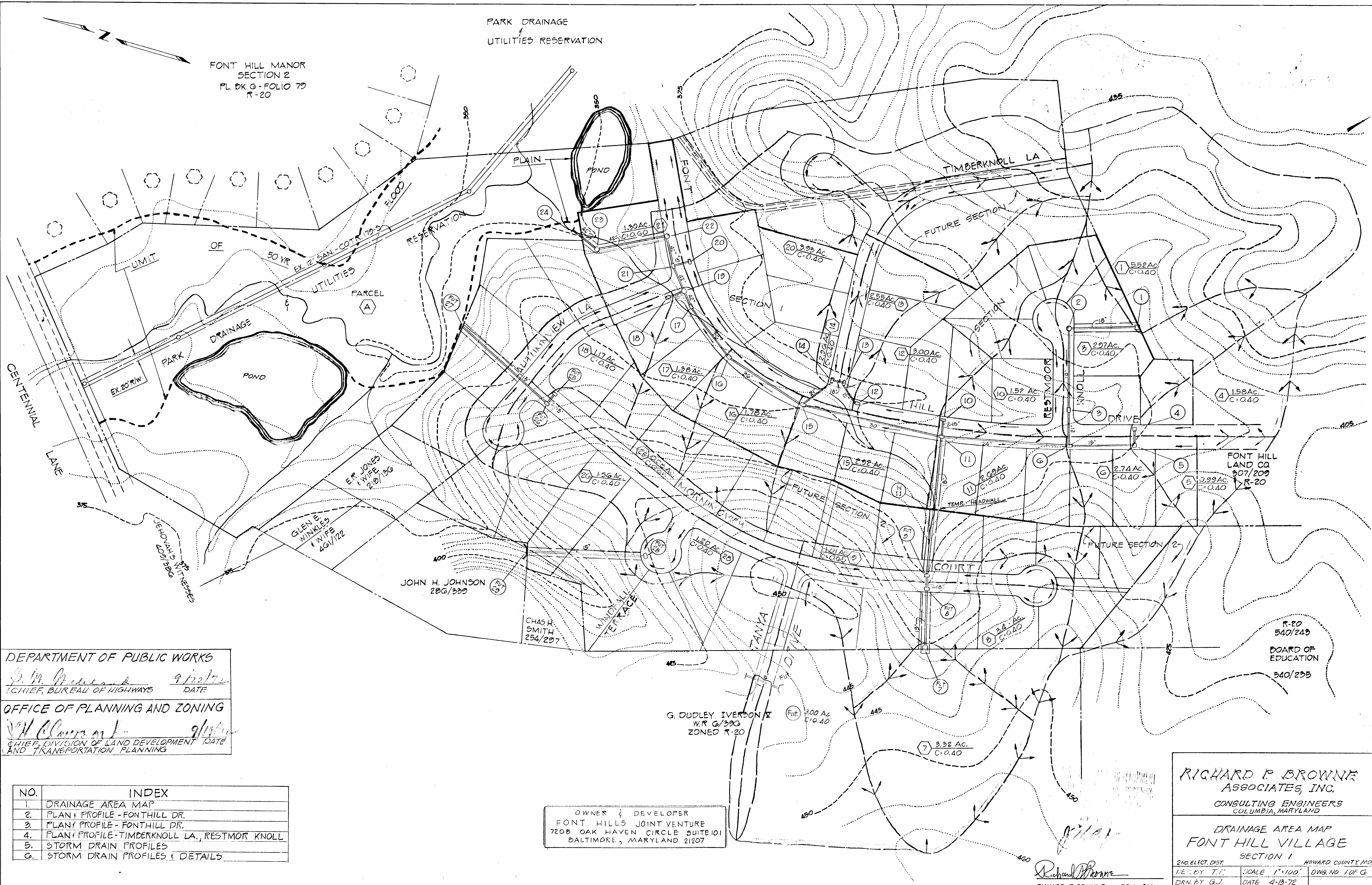


PARK DRAINAGE  
UTILITIES RESERVATION

FONT HILL MANOR  
SECTION 2  
PL. DK. G - FOLIO 79  
R-20



DEPARTMENT OF PUBLIC WORKS

*P. M. [Signature]* 9/12/72  
CHIEF, BUREAU OF HIGHWAYS DATE

OFFICE OF PLANNING AND ZONING

*[Signature]* 9/12/72  
CHIEF, DIVISION OF LAND DEVELOPMENT DATE  
AND TRANSPORTATION PLANNING

NO.	INDEX
1.	DRAINAGE AREA MAP
2.	PLAN & PROFILE - FONTHILL DR.
3.	PLAN & PROFILE - FONTHILL DR.
4.	PLAN & PROFILE - TIMBERKNOLL LA., RESTMOR KNOLL
5.	STORM DRAIN PROFILES
6.	STORM DRAIN PROFILES & DETAILS

OWNER & DEVELOPER  
FONT HILLS JOINT VENTURE  
7208 OAK HAVEN CIRCLE SUITE 101  
BALTIMORE, MARYLAND 21207

RICHARD P. BROWNE  
ASSOCIATES, INC.  
CONSULTING ENGINEERS  
COLUMBIA, MARYLAND

DRAINAGE AREA MAP  
FONT HILL VILLAGE

2ND. ELECT. DIST.	HOWARD COUNTY MD.
1/8" BY 11"	SCALE 1"=100'
DRN. BY G.J.	DATE 4-18-72
CHK. BY JECR	JULY 20, 1972

*[Signature]*  
RICHARD P. BROWNE P.E. NO. 5238

Remove Ex. N&S Curb and Warp Ex. Paving to Meet with Proposed Limit of Subdivision.

5' Resurfacing to be done as Directed by the Engineer in the Field.

**CURVE DATA**  
 R=504.22'  
 Δ=67°26'17"  
 L=593.47'  
 T=390.51'  
 Chd Brng=222°42'16"W

UTILITY & DRAINAGE ESMT.

DEPARTMENT OF PUBLIC WORKS  
*J. N. McLeod* 9/22/72  
 CHIEF BUREAU OF HIGHWAYS DATE

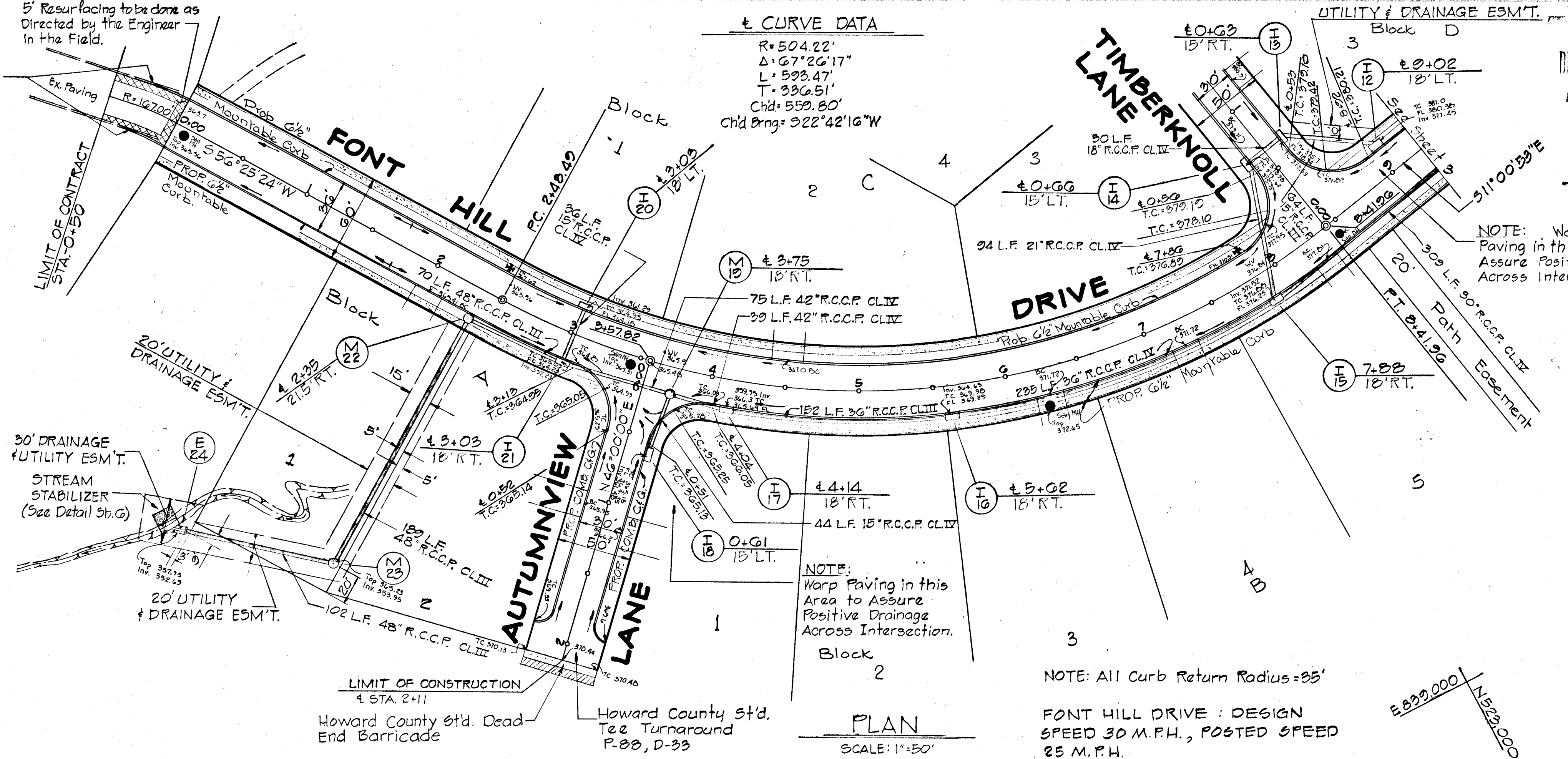
OFFICE OF PLANNING AND ZONING  
*J. H. Clawson* 9/19/72  
 CHIEF DIVISION OF LAND DEVELOPMENT AND TRANSPORTATION PLANNING DATE

APPROVED  
 DIVISION OF LAND DEVELOPMENT AND TRANSPORTATION PLANNING  
 HOWARD COUNTY, MARYLAND  
 DATE SEP 11 1972  
*J. N. McLeod*

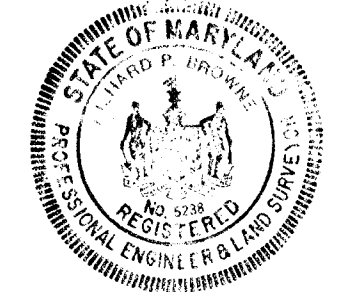
NOTE: Warp Paving in this Area to Assure Positive Drainage Across Intersection.

**STORM DRAINAGE STRUCTURE SCHEDULE**

NO.	TYPE	LOCATION	TOP ELEV.	REMARKS
I12	Dib. E. Comb.	2+35 21.5' RT.	365.52	See Ho. Co. Std. D-68, Pg. 123
I13	"	0+63 15' RT.	370.32	" " " " " " " "
I14	"	0+66 15' LT.	370.41	" " " " " " " "
I15	A-15 Inlet	7+88 18' RT.	377.02	" " " " D-64A, Pg. 119A
I16	Dib. E. Comb.	5+62 18' RT.	370.00	" " " " D-68, Pg. 123
I17	E. Comb.	4+14 18' RT.	366.32	" " " " D-67, Pg. 122
I18	A-10	0+61 18' LT.	363.23	" " " " D-64A, Pg. 119A
M19	Std. Storm Drain M.H.	3+75 18' RT.	364.03	" " " " D-103, Pg. 158
I20	A-5	3+03 18' RT.	364.05	" " " " D-64A, Pg. 119A
I21	A-10	2+35 21.5' RT.	364.05	" " " " " " " "
M22	Std. Storm Drain M.H.	2+35 21.5' RT.	365.52	" " " " D-103, Pg. 158
M23	"	See Plan	361.50	" " " " " " " "
E24	"Type C" Endwall	"	"	" " " " D-52, Pg. 107

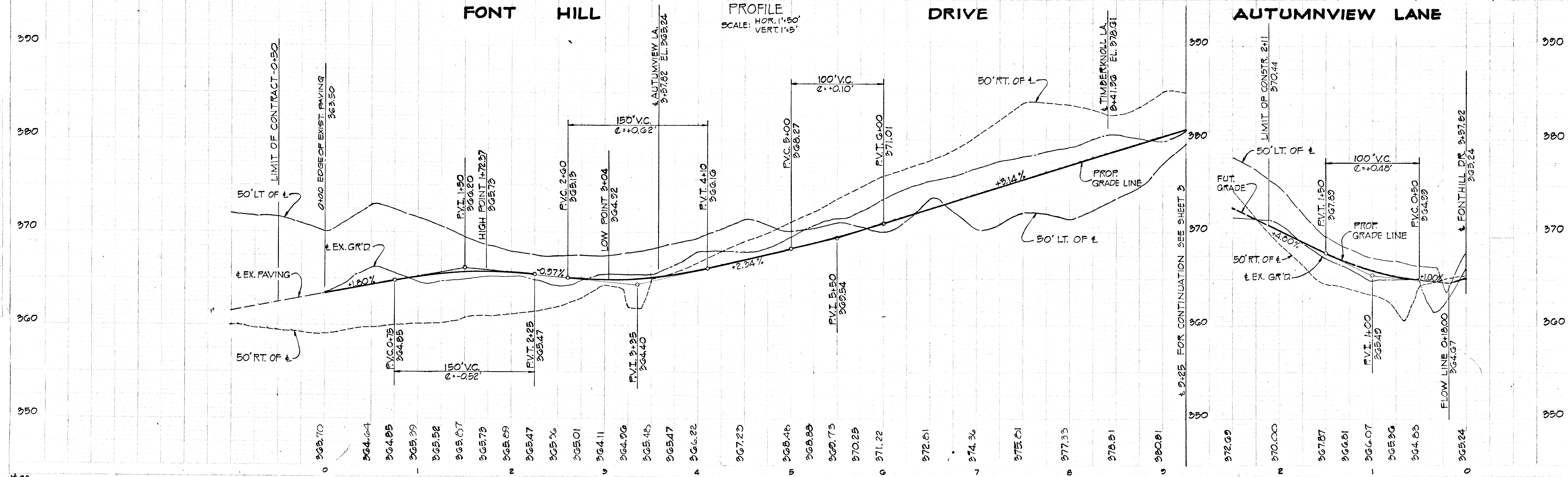


**RICHARD F. BROWNE ASSOCIATES, INC.**  
 CONSULTING ENGINEERS  
 COLUMBIA, MARYLAND



PLAN & PROFILE  
 FONTHILL DRIVE  
 STA. 0+00 TO 3+25

DES. BY T.F. SCALE: SHOWN DWG. NO. 2 OF 6  
 DRN. BY G.J. DATE 4-20-72  
 CHK. BY JECF



AS-BUILT 7-29-76

STORM DRAINAGE STRUCTURE SCHEDULE				
NO.	TYPE	LOCATION	TOP ELEV.	REMARKS
I-4	A-10	±15+78 18' LT.	380.53	See Ho. Co. Std. D-64A, P-12A
I-5	A-10	±15+78 18' RT.	377.02	" " " " " " " " " " " "
I-6	Dip. "E" Comb.	±14+32 18' RT.	370.00	" " " " " " " " " " " "
I-11	" " " "	±10+32 18' RT.	364.95	" " " " " " " " " " " "
I-11	Mod. Type F Hdwl.	See Plan		" " " " " " " " " " " "
I-10	A-10	±10+32 18' LT.	364.95	" " " " " " " " " " " "

APPROVED  
 DIVISION OF LAND DEVELOPMENT  
 AND TRANSPORTATION PLANNING  
 HOWARD COUNTY, MARYLAND  
 DATE SEP 11 1972  
*J. H. J.*

DEPARTMENT OF PUBLIC WORKS  
*B. H. McLeans* 9/22/72  
 CHIEF, BUREAU OF HIGHWAYS DATE  
 OFFICE OF PLANNING AND ZONING  
*J. H. Clewley* 9/19/72  
 CHIEF, DIVISION OF LAND DEVELOPMENT AND TRANSPORTATION PLANNING DATE

RICHARD P BROWNE  
 ASSOCIATES, INC.  
 CONSULTING ENGINEERS  
 COLUMBIA, MARYLAND

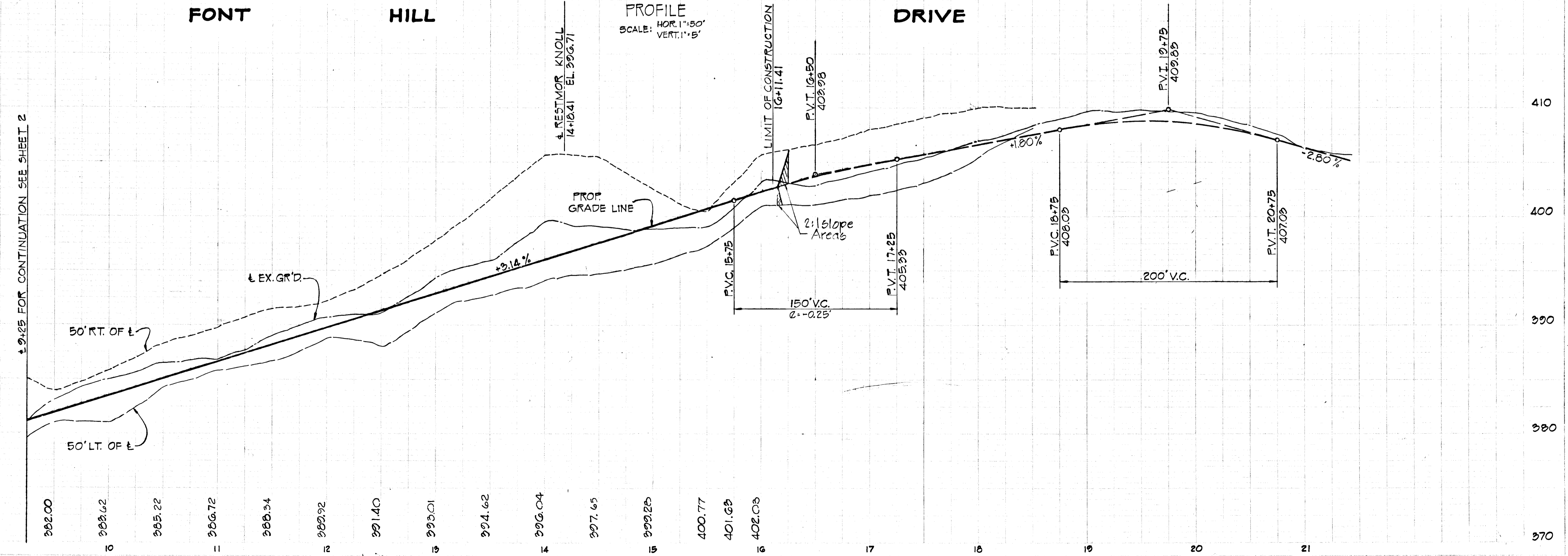
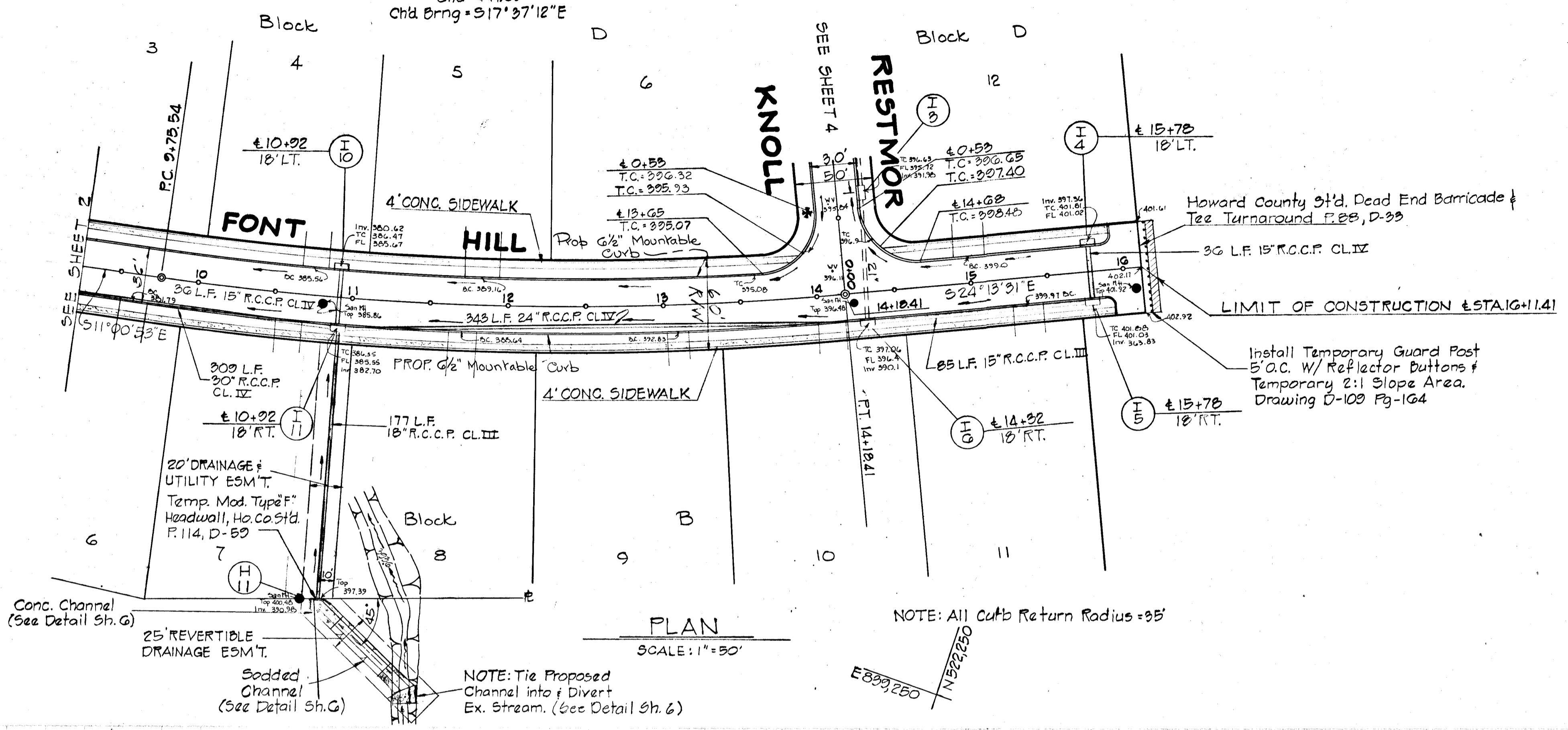
PLAN & PROFILE  
 FONTHILL DRIVE  
 STA. 9+25 TO 10+

DES. BY W.N./T.P.	SCALE: SHOWN	DWG. NO 3 OF 6
DRN. BY G.J.	DATE 4-20-72	
CHK. BY J.E.C.P.		



*Richard P. Browne*  
 RICHARD P. BROWNE P.E. NO. 12288

**CURVE DATA**  
 R=1020.76'  
 Δ=13°12'38"  
 L=442.87'  
 T=222.42'  
 Chd Brng=317°37'12"E



DEPARTMENT OF PUBLIC WORKS  
*S. M. McLeod* 9/22/72  
 CHIEF, BUREAU OF HIGHWAYS DATE

OFFICE OF PLANNING AND ZONING  
*J. H. Clewson* 9/14/72  
 CHIEF, DIVISION OF LAND DEVELOPMENT AND TRANSPORTATION PLANNING DATE

APPROVED  
 DIVISION OF LAND DEVELOPMENT  
 AND TRANSPORTATION PLANNING  
 HOWARD COUNTY, MARYLAND  
 DATE SEP 11 1972  
*J. H. Clewson*

STORM DRAINAGE STRUCTURE SCHEDULE				
NO.	TYPE	LOCATION	TOP ELEV.	REMARKS
W-1	End Support Wall	See Plan		See Ho. Co. Std. D-46, P-101
M-2	Std. Storm Drain MH	± 2+62 15' RT.	402.70	" " " " D-103, P-133
I-3	A-5	± 0+63 15' RT.	396.55	" " " " D-64A, P-118A

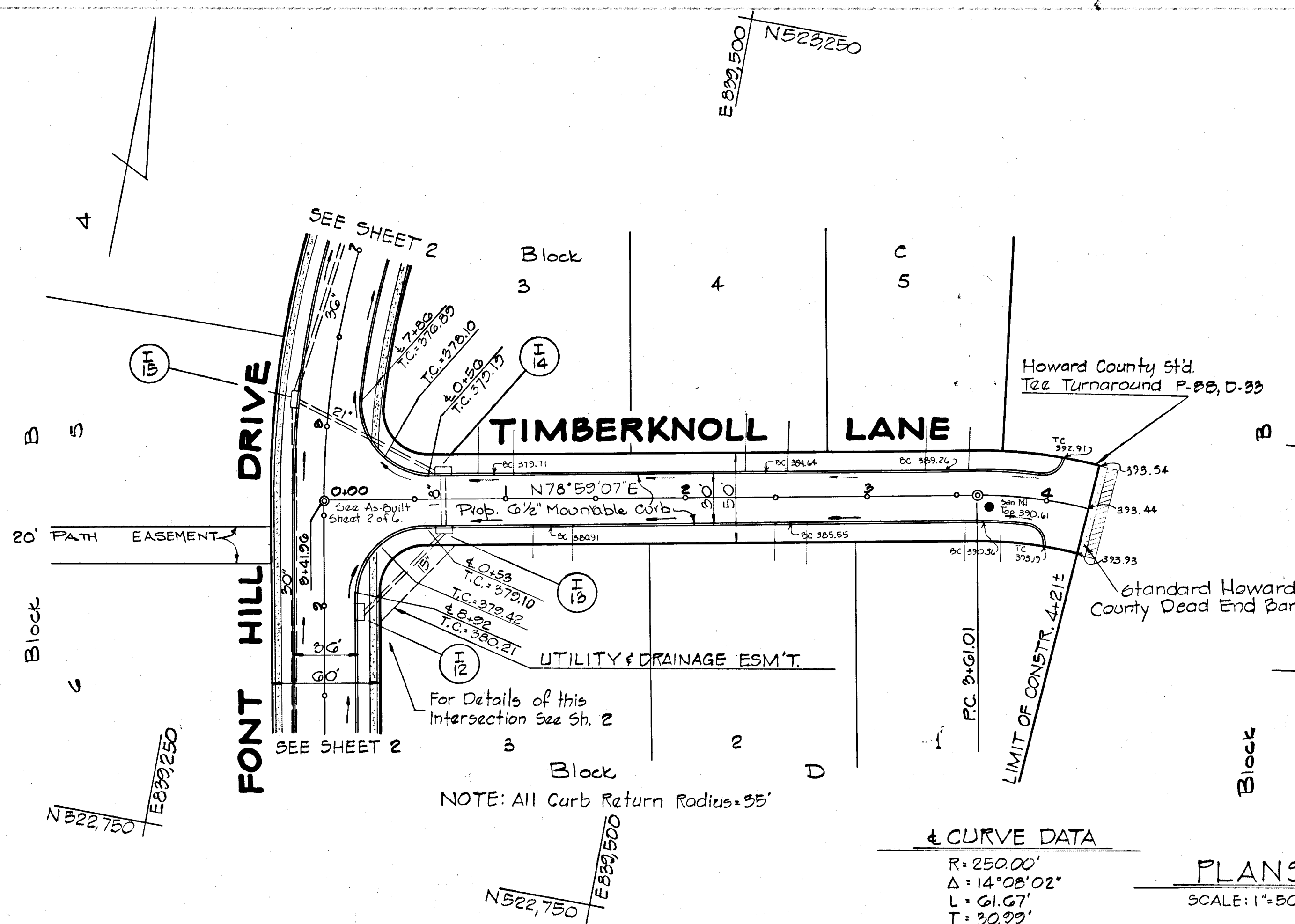


*Richard P. Browne*  
 RICHARD P. BROWNE P.E. NO. 12258

**RICHARD P. BROWNE ASSOCIATES, INC.**  
 CONSULTING ENGINEERS  
 COLUMBIA, MARYLAND

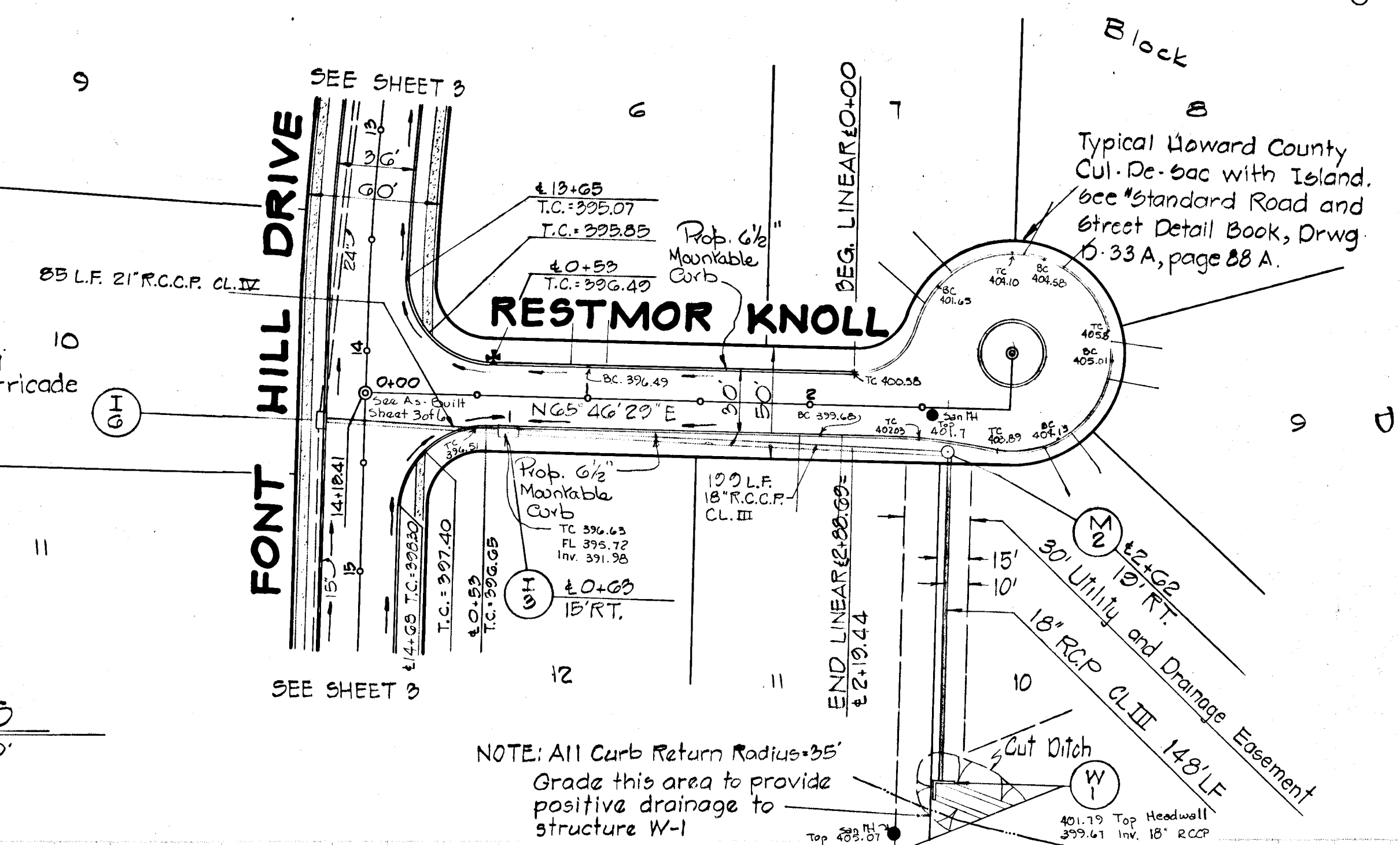
PLAN & PROFILE  
 TIMBERKNOLL LA.  
 RESTMOR KNOLL

DES. BY W.H.N. SCALE: SHOWN DWG. NO. 4 OF 6  
 DRN. BY G.J. DATE 6-25-72  
 CHK. BY J.E.C.P.



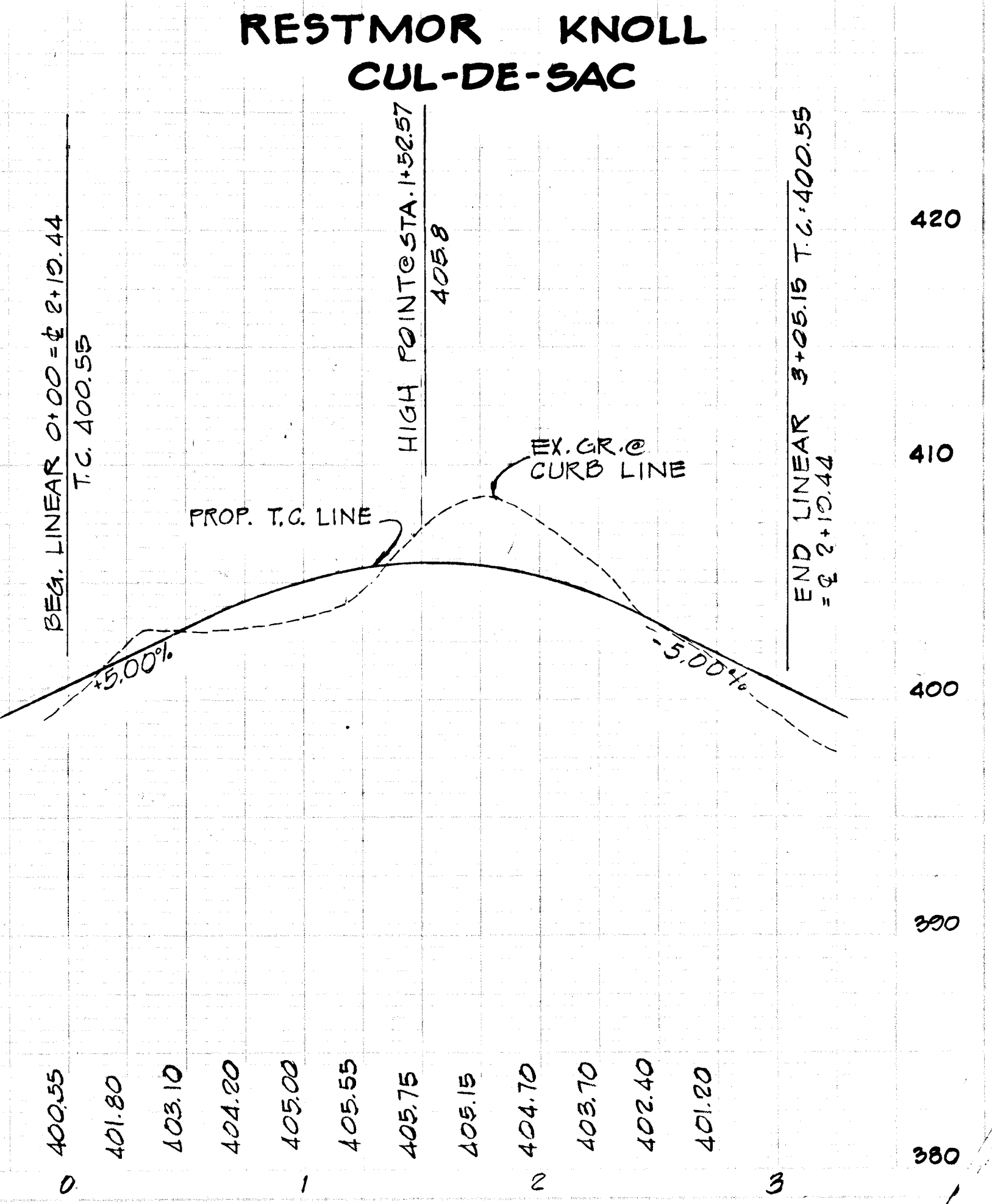
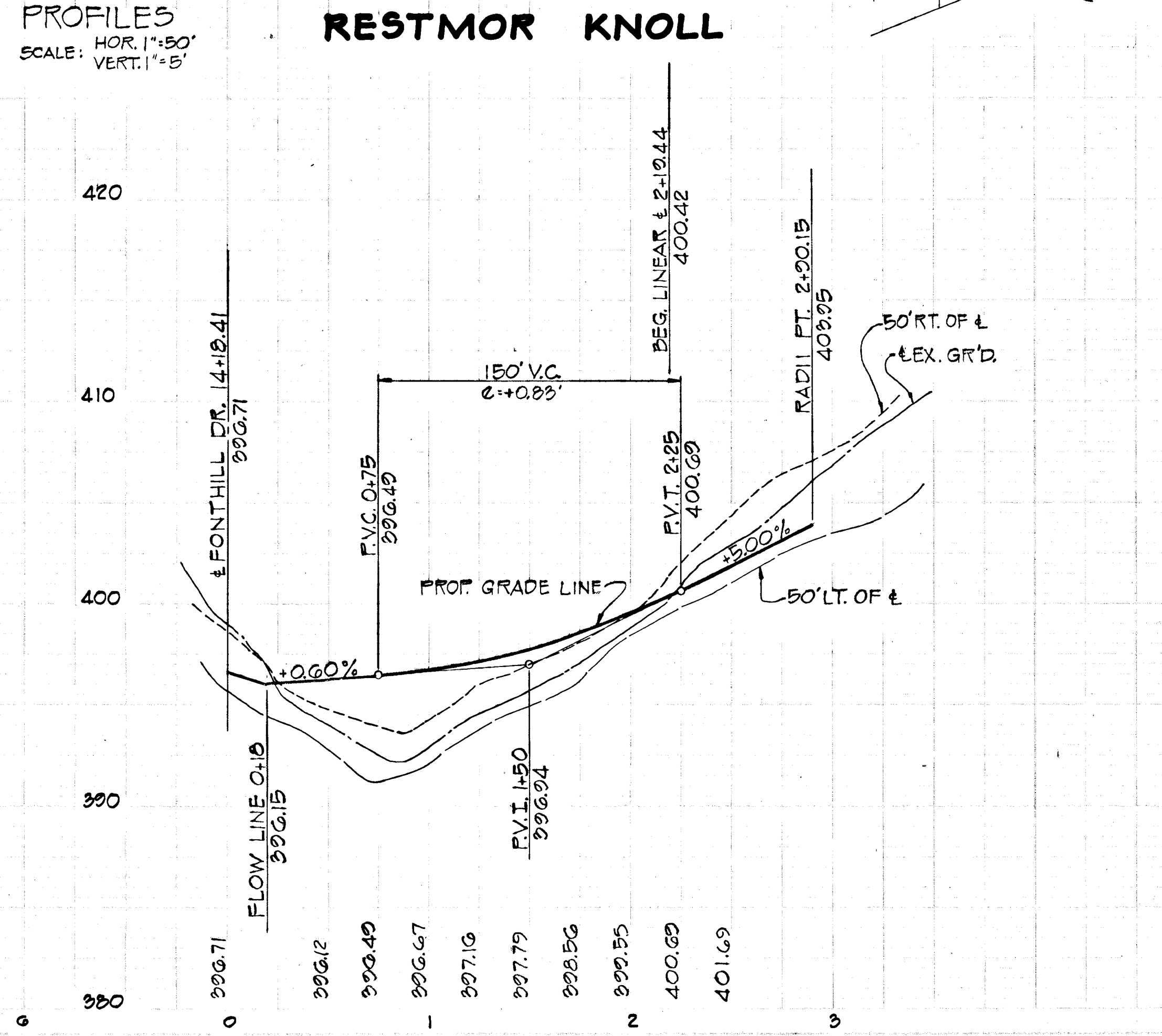
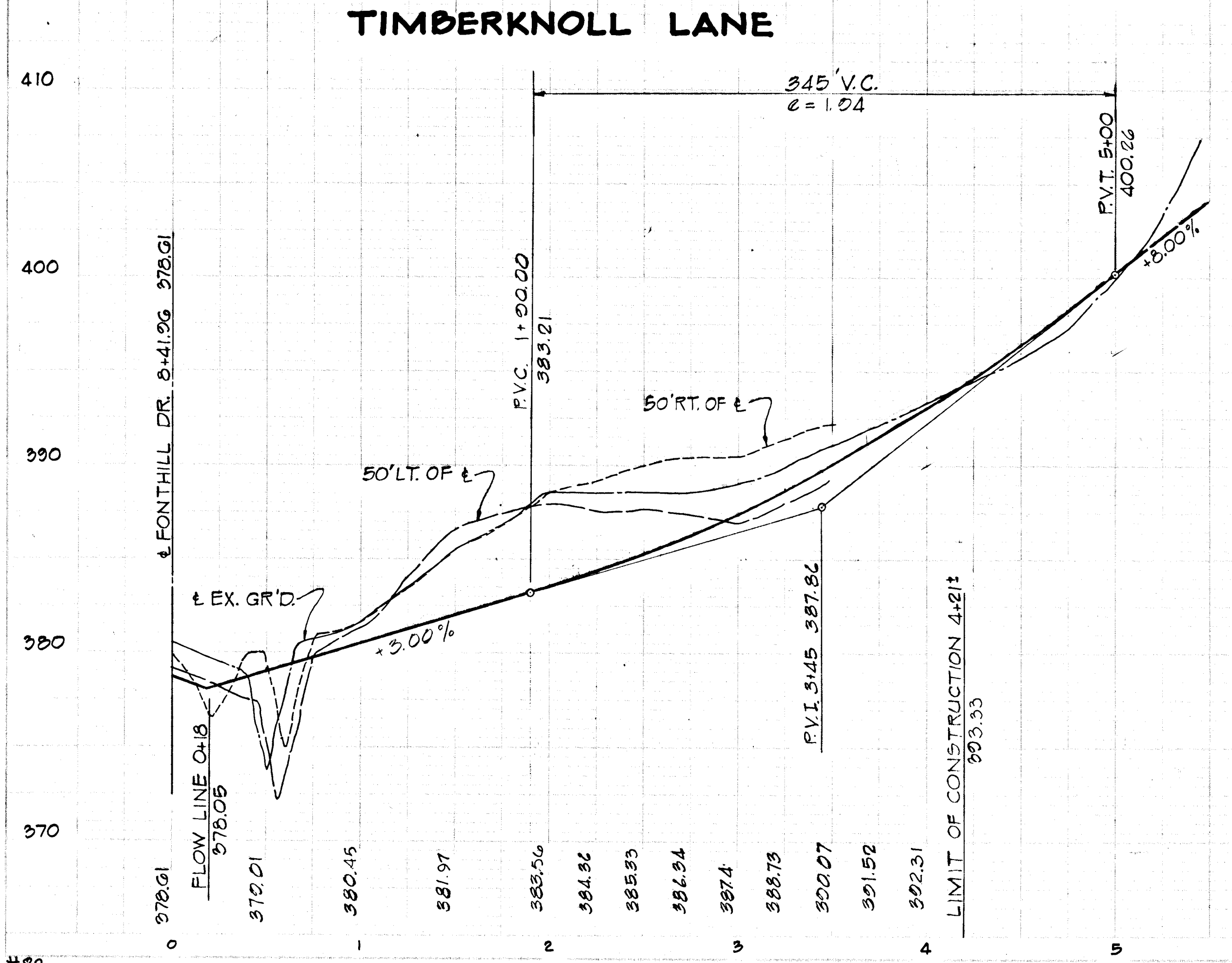
**CURVE DATA**  
 R = 250.00'  
 Δ = 14° 08' 02"  
 L = 61.67'  
 T = 30.99'  
 Chd = 61.51'  
 Chd. Brng = N 86° 07' 09" E

**PLANS**  
 SCALE: 1" = 50'

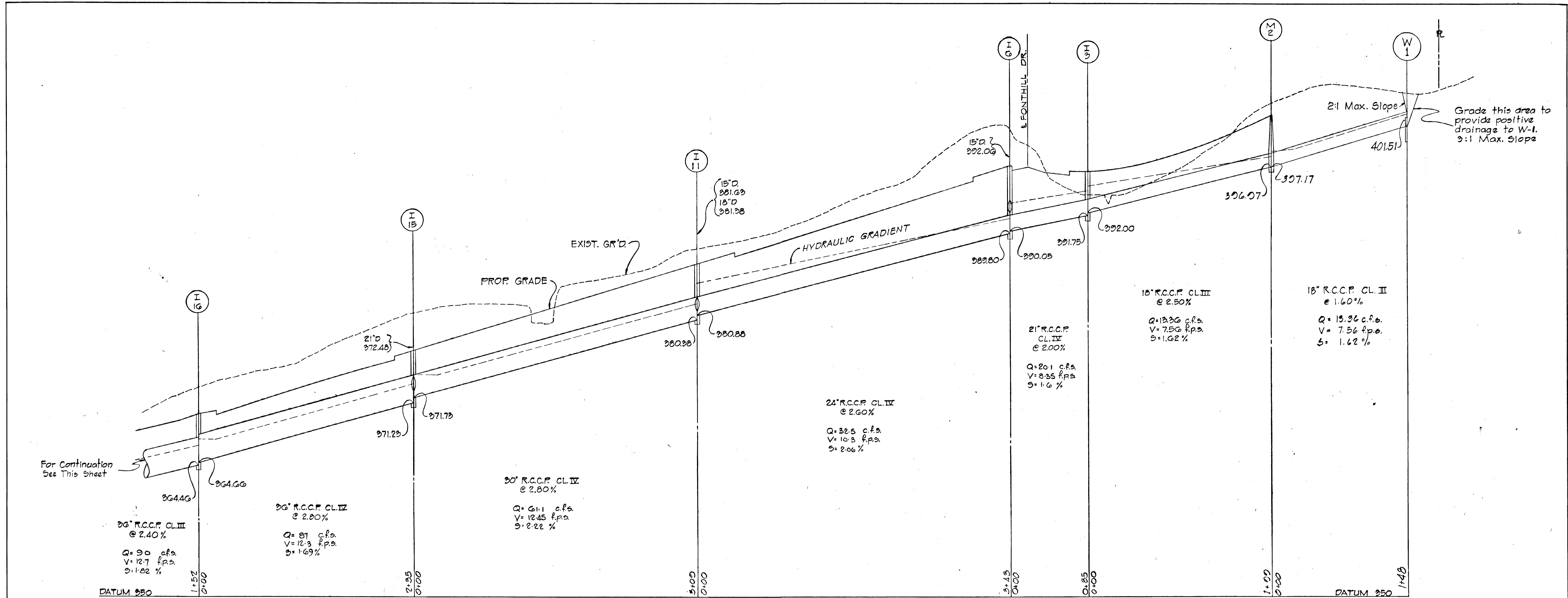


NOTE: All Curb Return Radius = 35'  
 Grade this area to provide positive drainage to structure W-1

**PROFILES**  
 HOR. 1" = 50'  
 VERT. 1" = 5'

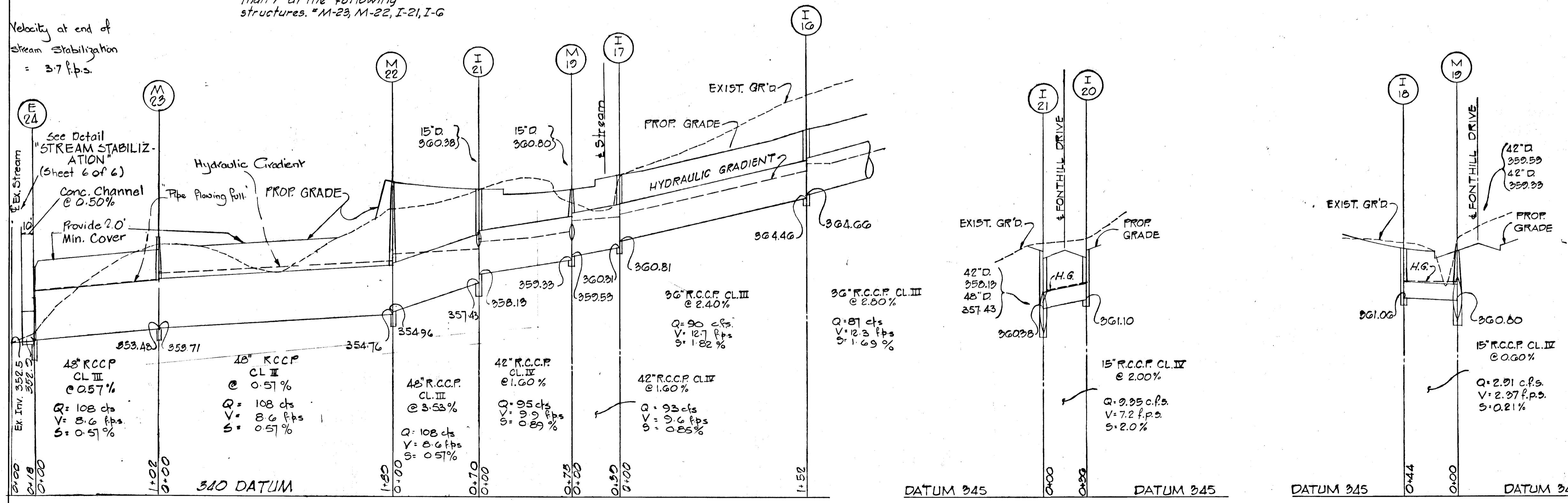


AS-BUILT 7-29-76



NOTE: Structure required deeper than 7' at the following structures. #M-23, M-22, I-21, I-6

Velocity at end of stream stabilization = 3.7 f.p.s.



Note: 10 yrs Hydraulic Gradient shown thus ----

APPROVED  
DIVISION OF LAND DEVELOPMENT  
AND TRANSPORTATION PLANNING  
HARFORD COUNTY, MARYLAND  
DATE SEP 11 1972

DEPARTMENT OF PUBLIC WORKS  
S. N. McNeel  
CHIEF, BUREAU OF HIGHWAYS  
DATE 9/22/72

OFFICE OF PLANNING AND ZONING  
J. H. Clowry  
CHIEF, DIVISION OF LAND DEVELOPMENT  
AND TRANSPORTATION PLANNING  
DATE 9/13/72

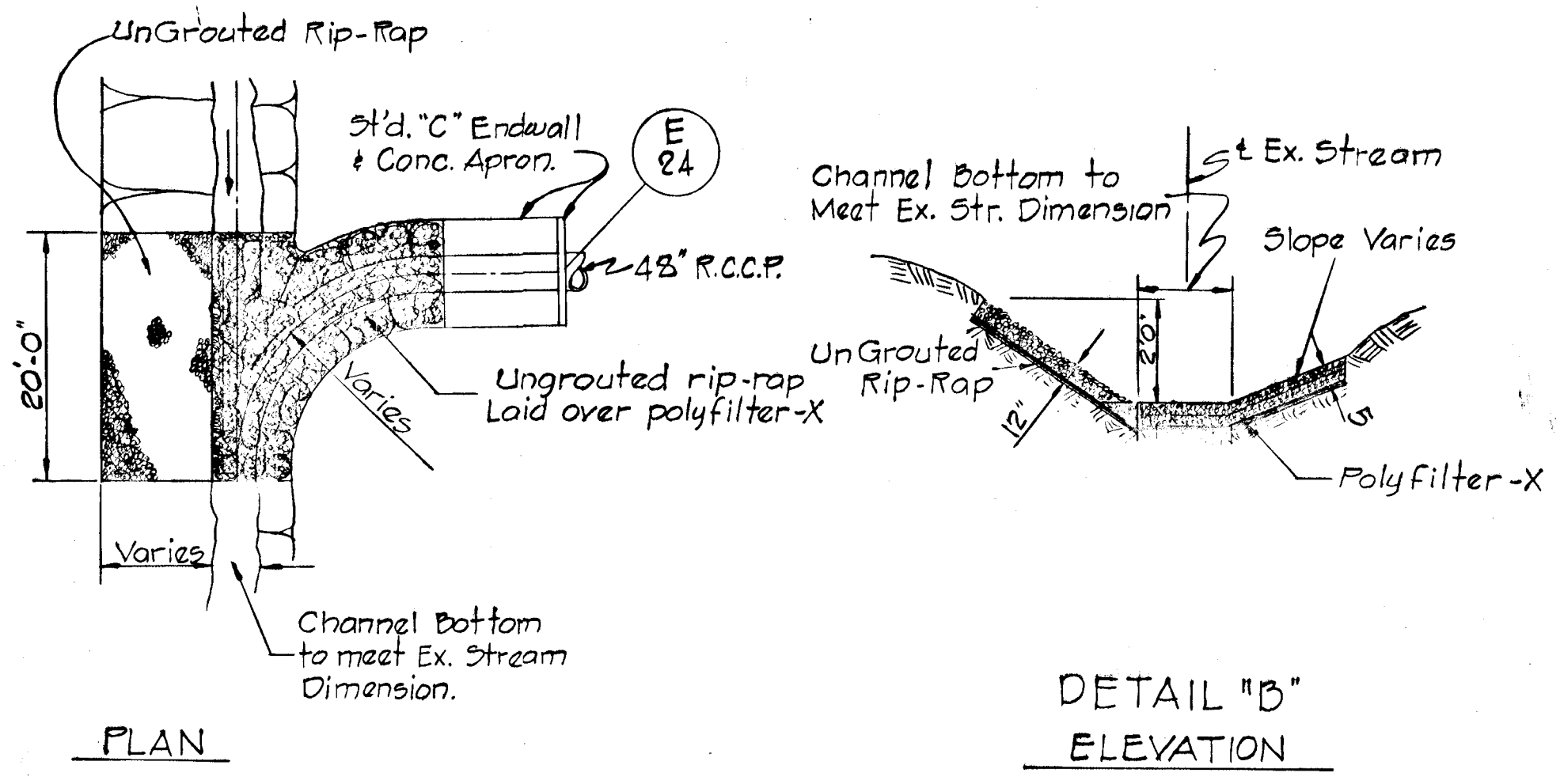


**RICHARD P. BROWNE ASSOCIATES, INC.**  
CONSULTING ENGINEERS  
COLUMBIA, MARYLAND

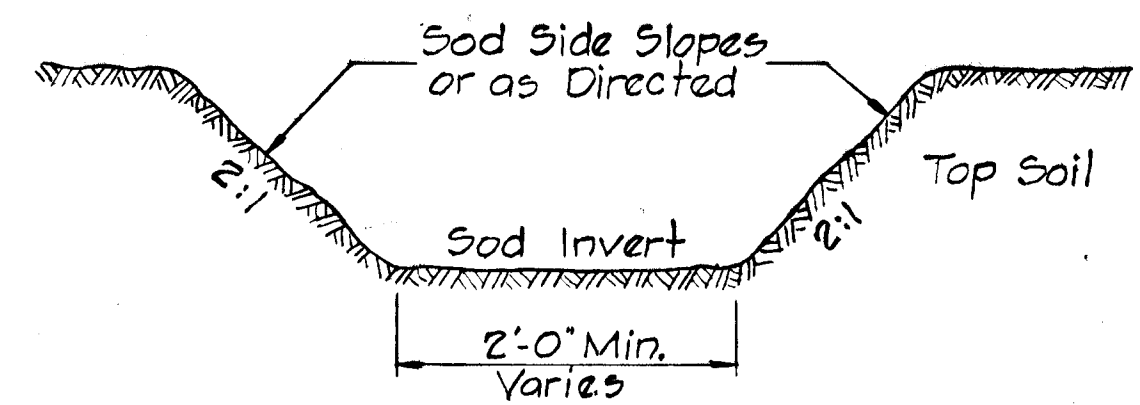
**STORM DRAIN PROFILES**

DES. BY T.P.	SCALE: SHOWN	DWG. NO B OF G
DRN. BY W.N.	DATE 4-20-72	
CHK. BY J.E.P.		

DEPARTMENT OF PUBLIC WORKS  
*J. N. McLeand* 9/22/72  
 CHIEF, BUREAU OF HIGHWAYS DATE  
 OFFICE OF PLANNING AND ZONING  
*J. N. McLeand* 9/19/72  
 CHIEF, DIVISION OF LAND DEVELOPMENT AND TRANSPORTATION PLANNING DATE

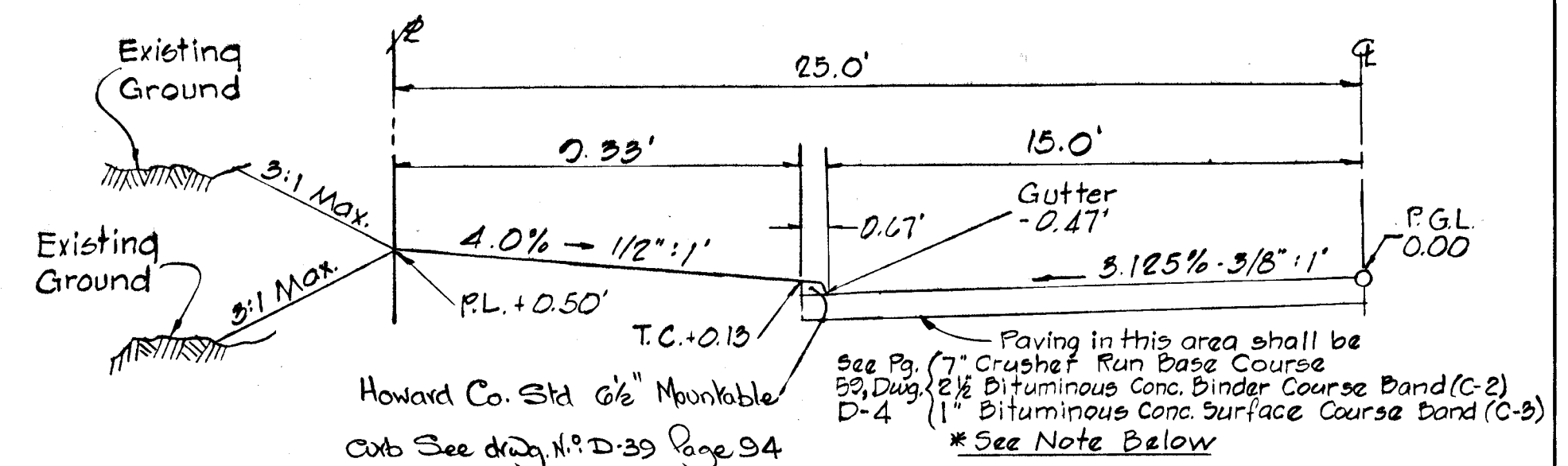


DETAIL  
 STREAM STABILIZATION  
 No Scale



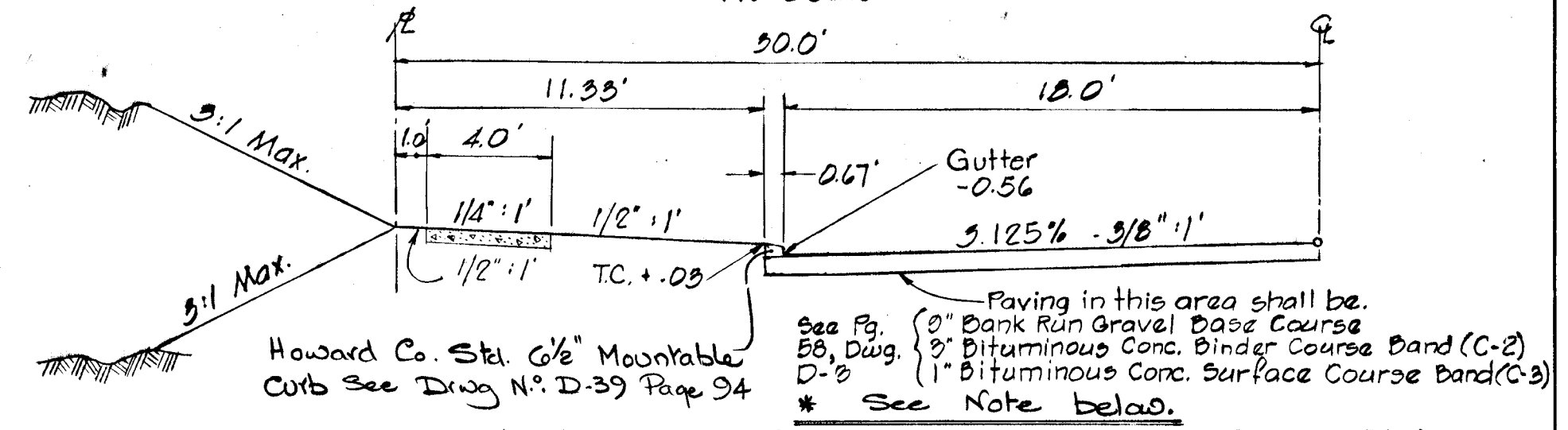
NOTE: All existing ditches approaching proposed endwalls shall be trimmed in accordance with article C-6 of the Howard County Road Constr. Code and Standard Specifications.

TYPICAL SOD DITCH  
 NO SCALE



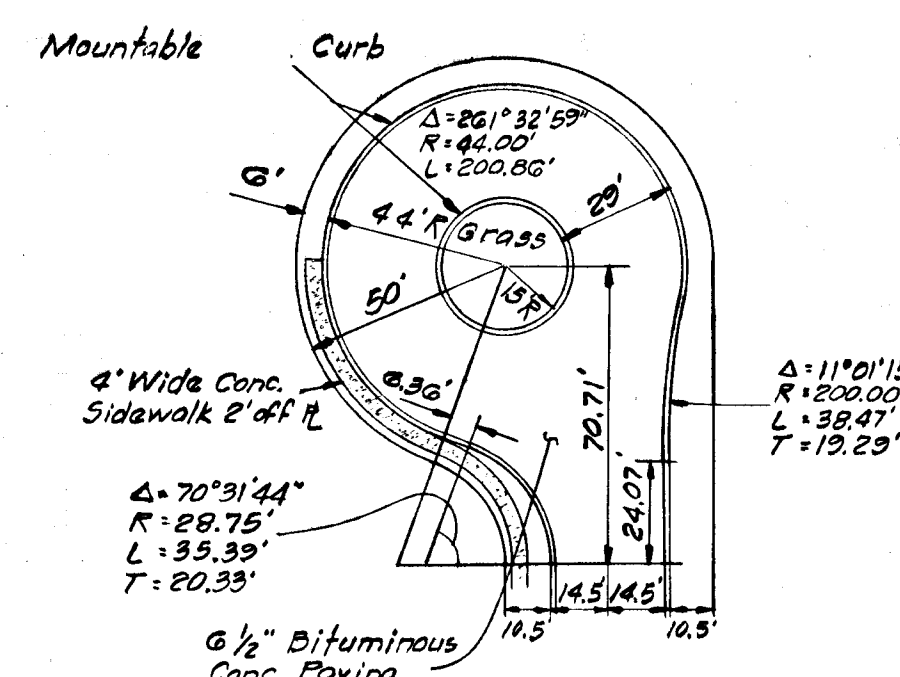
50' R.O.W TYPICAL HALF-SECTION  
 30' PAVING

AUTUMNVIEW LANE STA. 0+00 TO 2+11  
 RESTMOOR KNOLL STA. 0+00 TO 2+19.44  
 TIMBERKNOLL LA. STA. 0+00 TO 4+21  
 No Scale



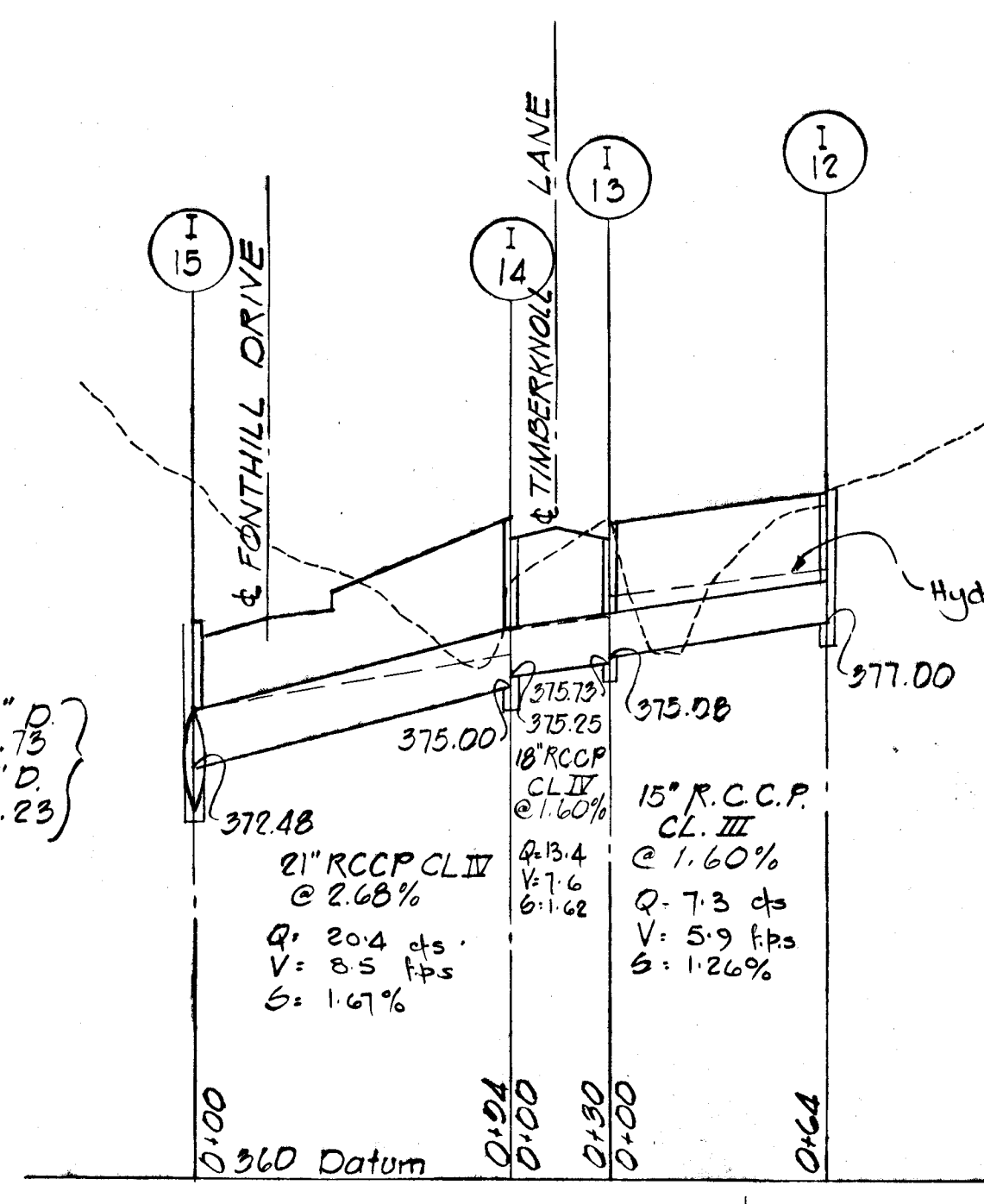
60' R.O.W TYPICAL HALF-SECTION  
 30' PAVING

\* NOTE:  
 Base will be primed in accordance with C-30-3 as provided in the Howard County Road Construction Code & Standard Specifications. Tack Coat is required in accordance with Section C-31-4 of the Howard County Road Construction Code & Standard Specifications.

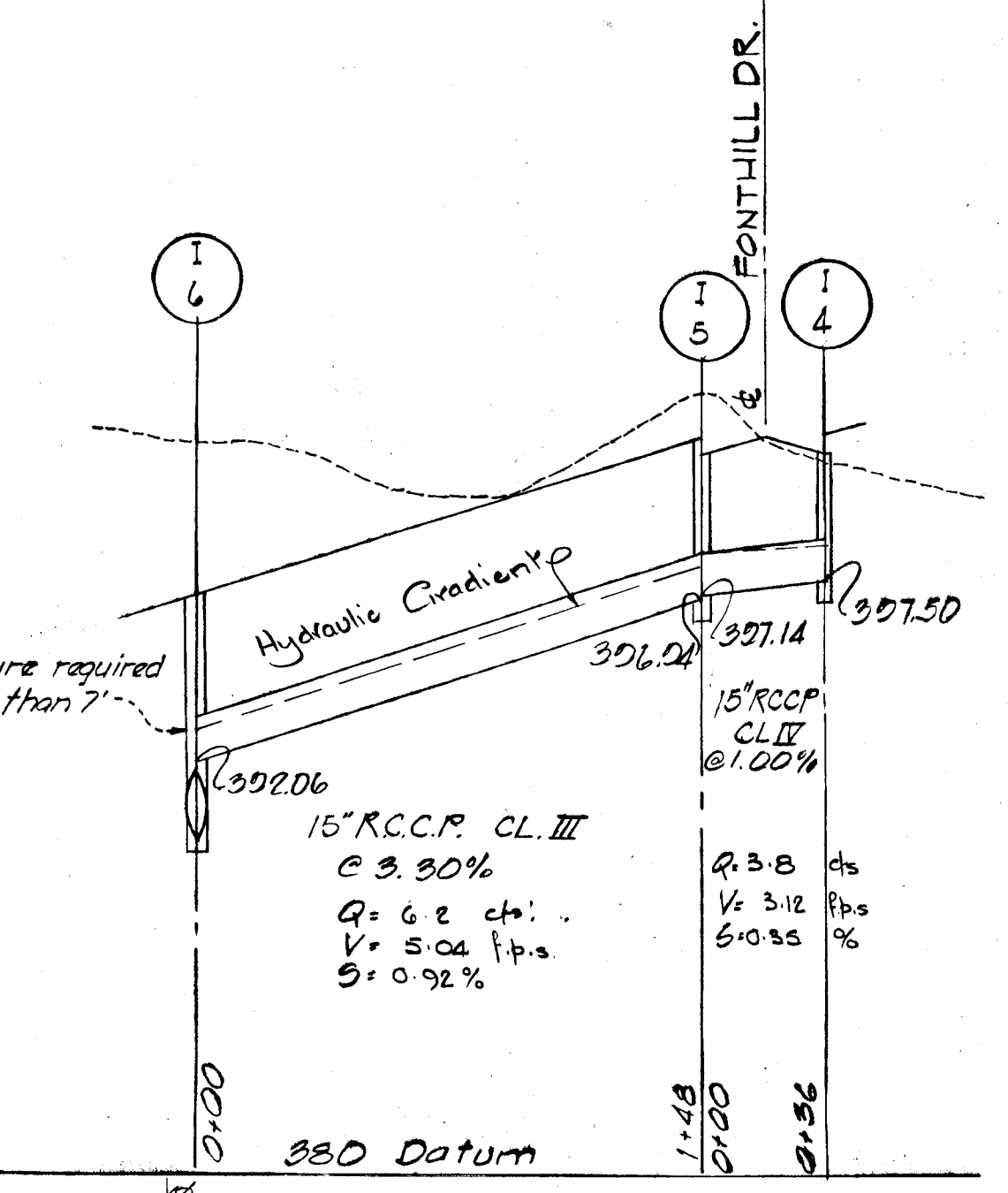


NOTE:  
 All dimensions are to back of curb.  
 Total length 305.15'

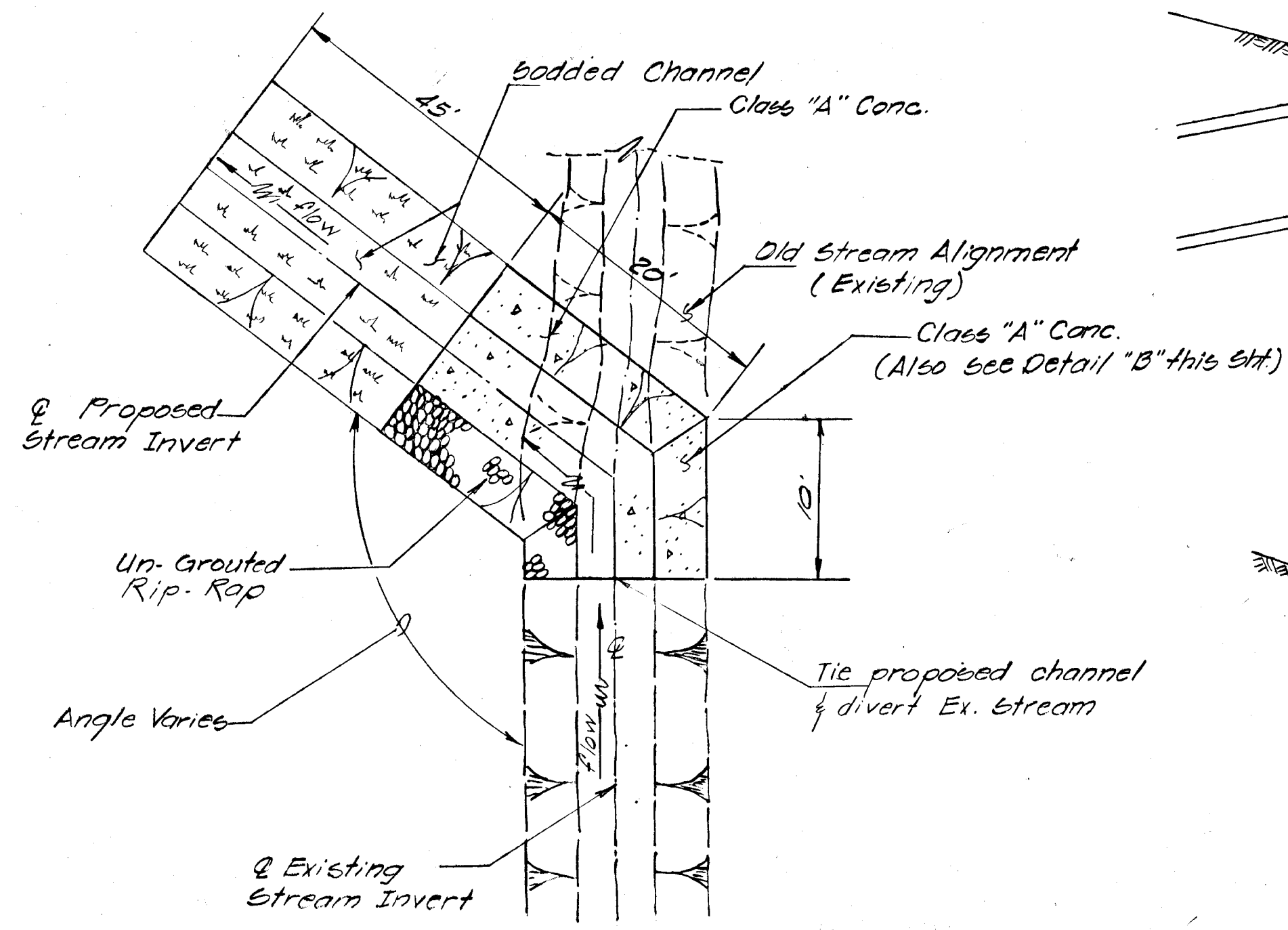
TYPICAL OFF-SET CUL-DE-SAC  
 50' RADIUS - R/W  
 44' RADIUS - BACK OF CURB  
 (See Drawing D-33A, Page 88 a)  
 SCALE: 1" = 50'



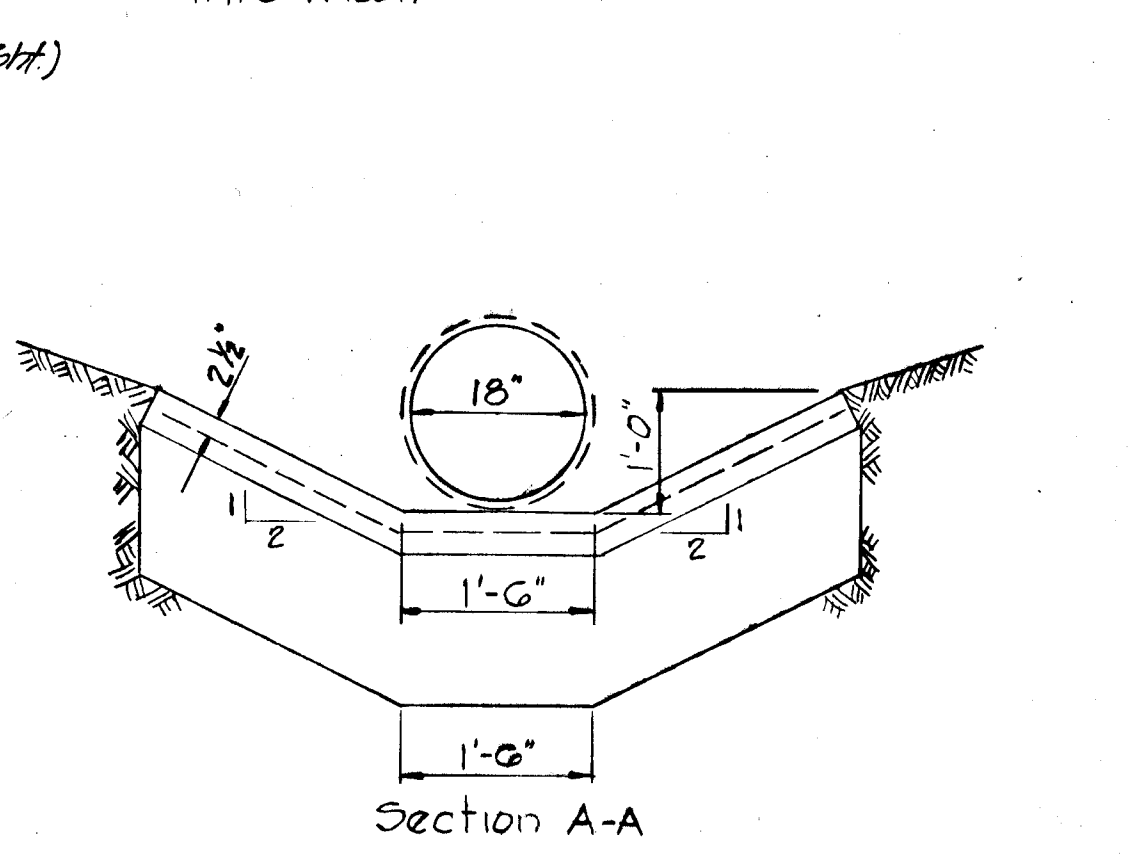
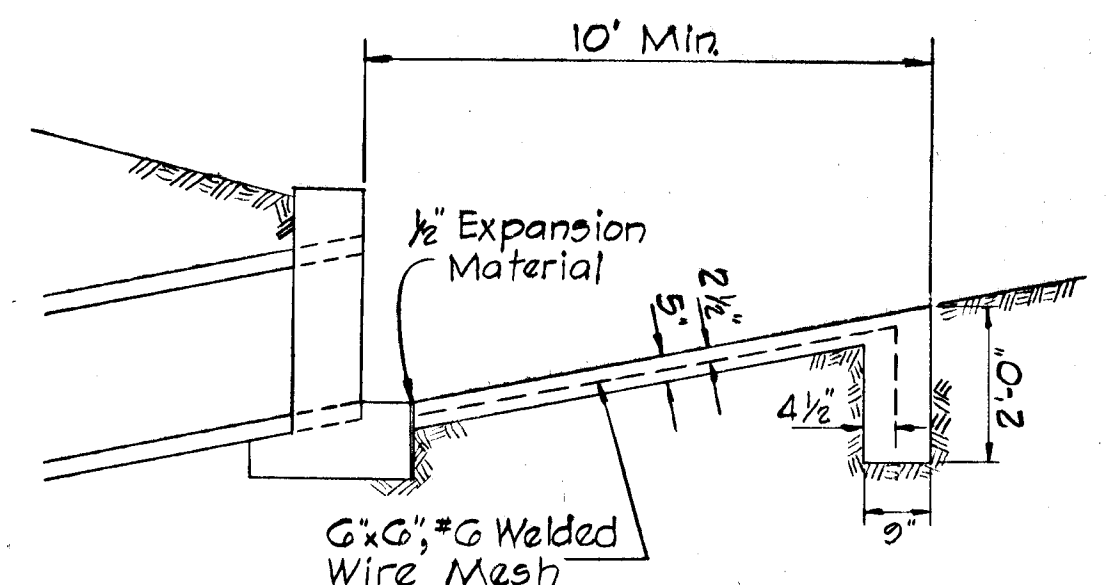
DIVISION OF LAND DEVELOPMENT AND TRANSPORTATION PLANNING  
 H. J. COUNTY, MARYLAND  
 DATE SEP 11 1972



NOTE: 10 yrs. Hydraulic Gradient shown thus



JUNCTION OF EXISTING STREAM  
 PROPOSED CHANNEL  
 "DETAIL STREAM STABILIZATION"  
 (UPSTREAM OF STRUCTURE H-11)  
 NO SCALE



TYPICAL CONCRETE CHANNEL  
 AND  
 MODIFIED TYPE "F" HEADWALL  
 @ STRUCTURES NO. H-11  
 AND NO. W-1  
 NO SCALE

*Richard P. Browne*  
 RICHARD P. BROWNE P.E. NO. 5238



RICHARD P. BROWNE  
 ASSOCIATES, INC.  
 CONSULTING ENGINEERS  
 COLUMBIA, MARYLAND

STORM DRAIN PROFILES  
 AND  
 DETAILS

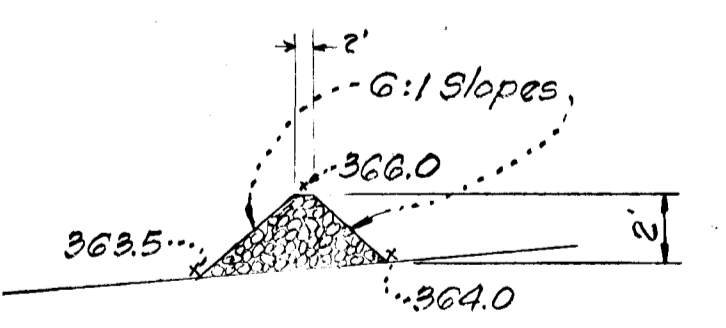
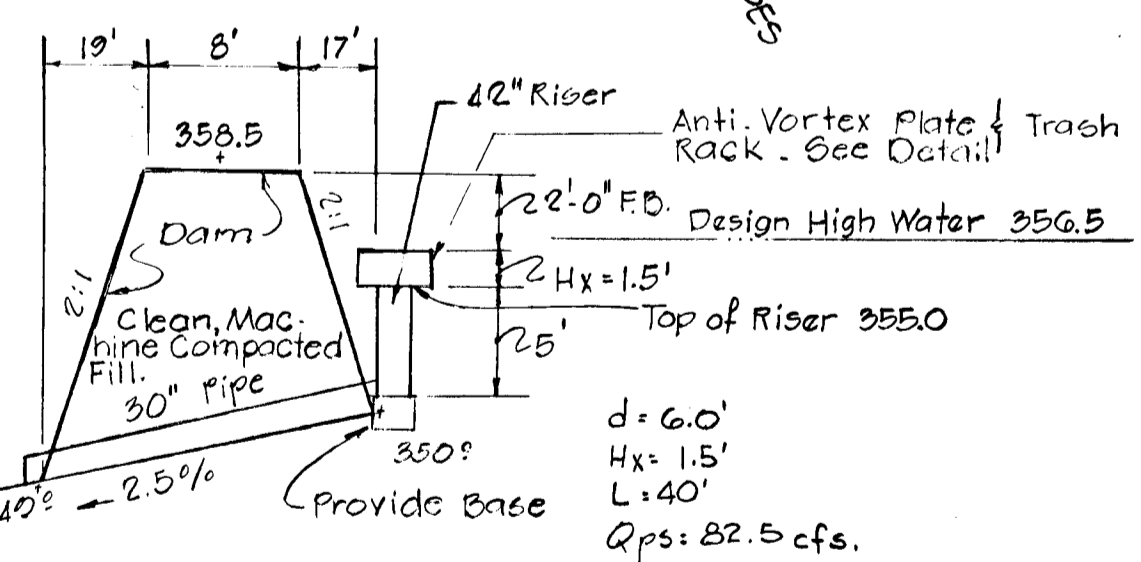
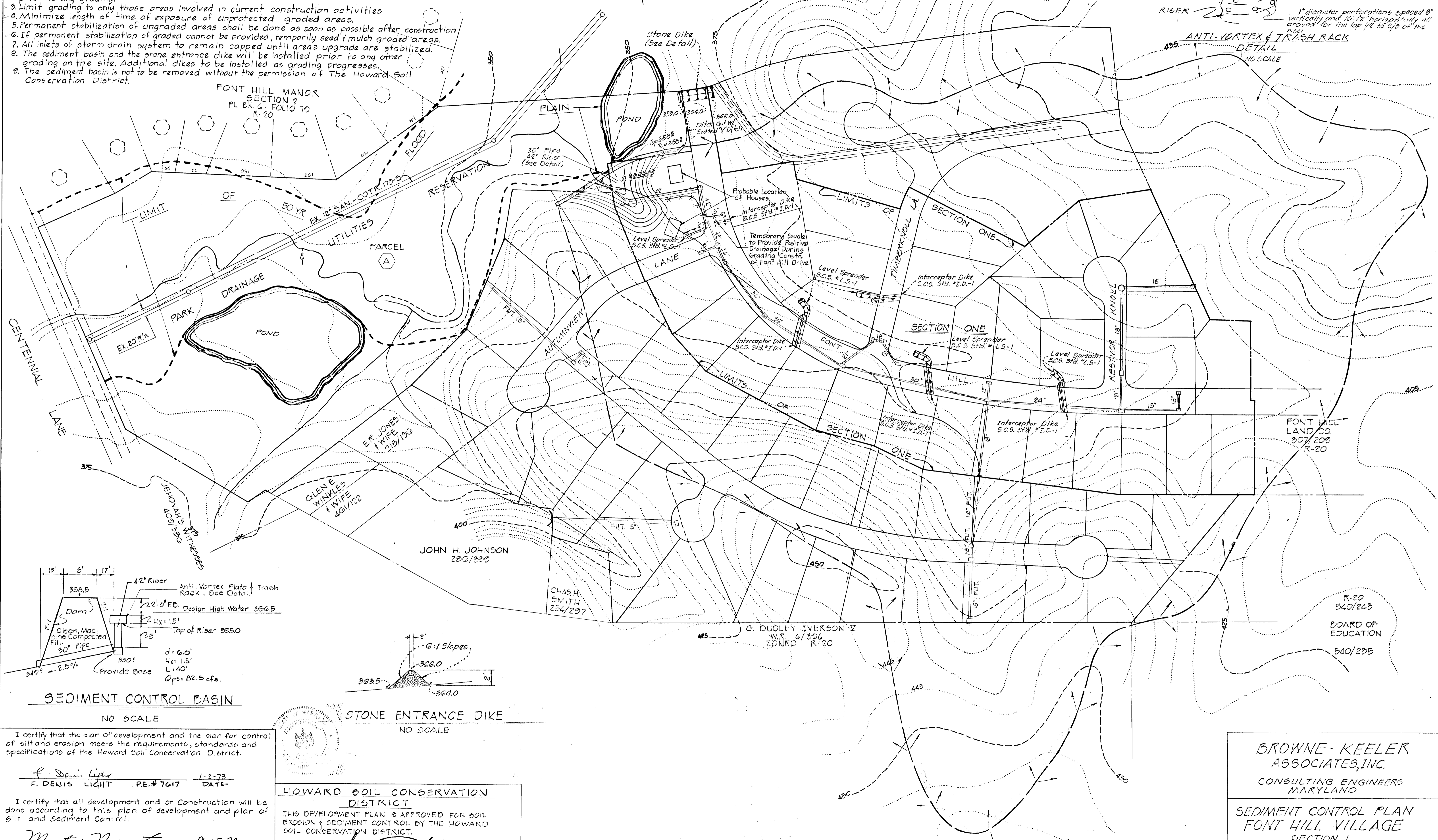
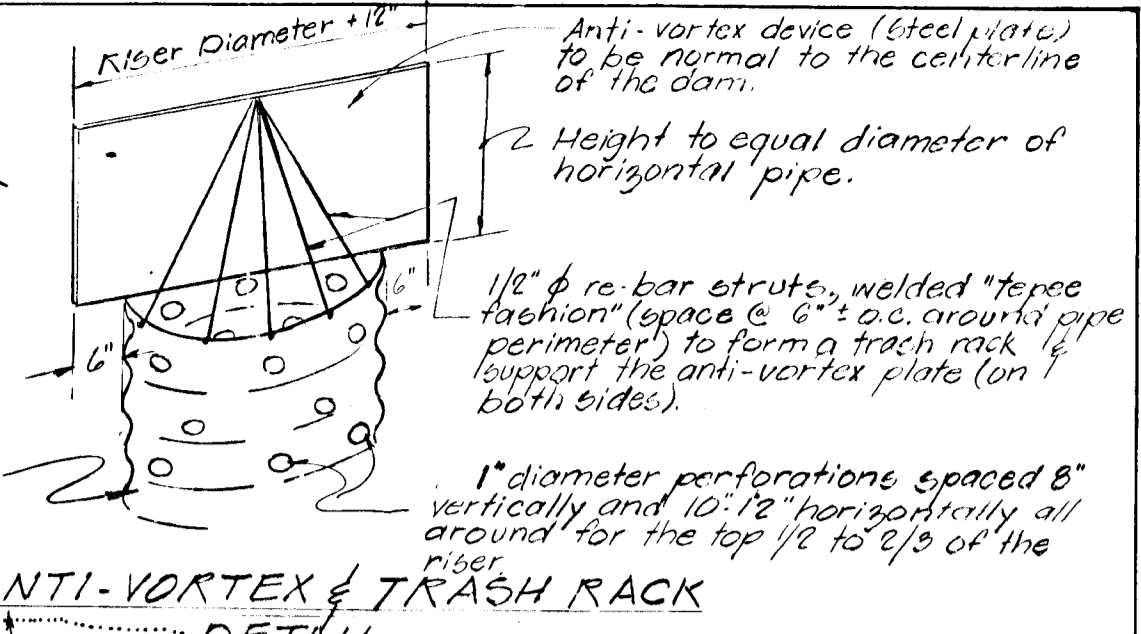
DES. BY WHN	SCALE: SHOWN	DWG. NO G OF G
DRN. BY WHN	DATE 6-27-72	
CHK. BY JECR		

**GENERAL NOTES**

- All disturbed areas will be permanently stabilized as follows:
  - 3" Topsoil
  - Lime-Fulvurized Dolomitic Limestone @ 2000#/Acre.
  - Fertilizer: Commercial 10-10-10 @ 1000#/Acre
  - Grass: 50% Kentucky Blue Grass, 40% Chewina, 10% Red Top @ 2.5#/1000'
- All graded areas shall be stabilized with anchored straw mulch after grading operation. Mulching shall be in accordance with The Soil Conservation Service standards and specifications for soil erosion and sediment control in urbanizing area.
- The contractor shall notify Howard Soil Conservation District (465-3180) at least 24 hrs. prior to any grading.
- Limit grading to only those areas involved in current construction activities
- Minimize length of time of exposure of unprotected graded areas.
- Permanent stabilization of ungraded areas shall be done as soon as possible after construction
- If permanent stabilization of graded cannot be provided, temporarily seed & mulch graded areas.
- All inlets of storm drain system to remain capped until areas upgrade are stabilized.
- The sediment basin and the stone entrance dike will be installed prior to any other grading on the site. Additional dikes to be installed as grading progresses.
- The sediment basin is not to be removed without the permission of The Howard Soil Conservation District.

SOMMERSET - SECTION 1  
FLATBOOK 7-FOLIO 32

PARK DRAINAGE  
UTILITIES RESERVATION



I certify that the plan of development and the plan for control of silt and erosion meets the requirements, standards and specifications of the Howard Soil Conservation District.

F. Denis Light, P.E. # 7617, 1-2-73 DATE

I certify that all development and or Construction will be done according to this plan of development and plan of silt and Sediment Control.

Martin Nowitz, 9-15-72 DATE  
FONT HILLS JOINT VENTURE

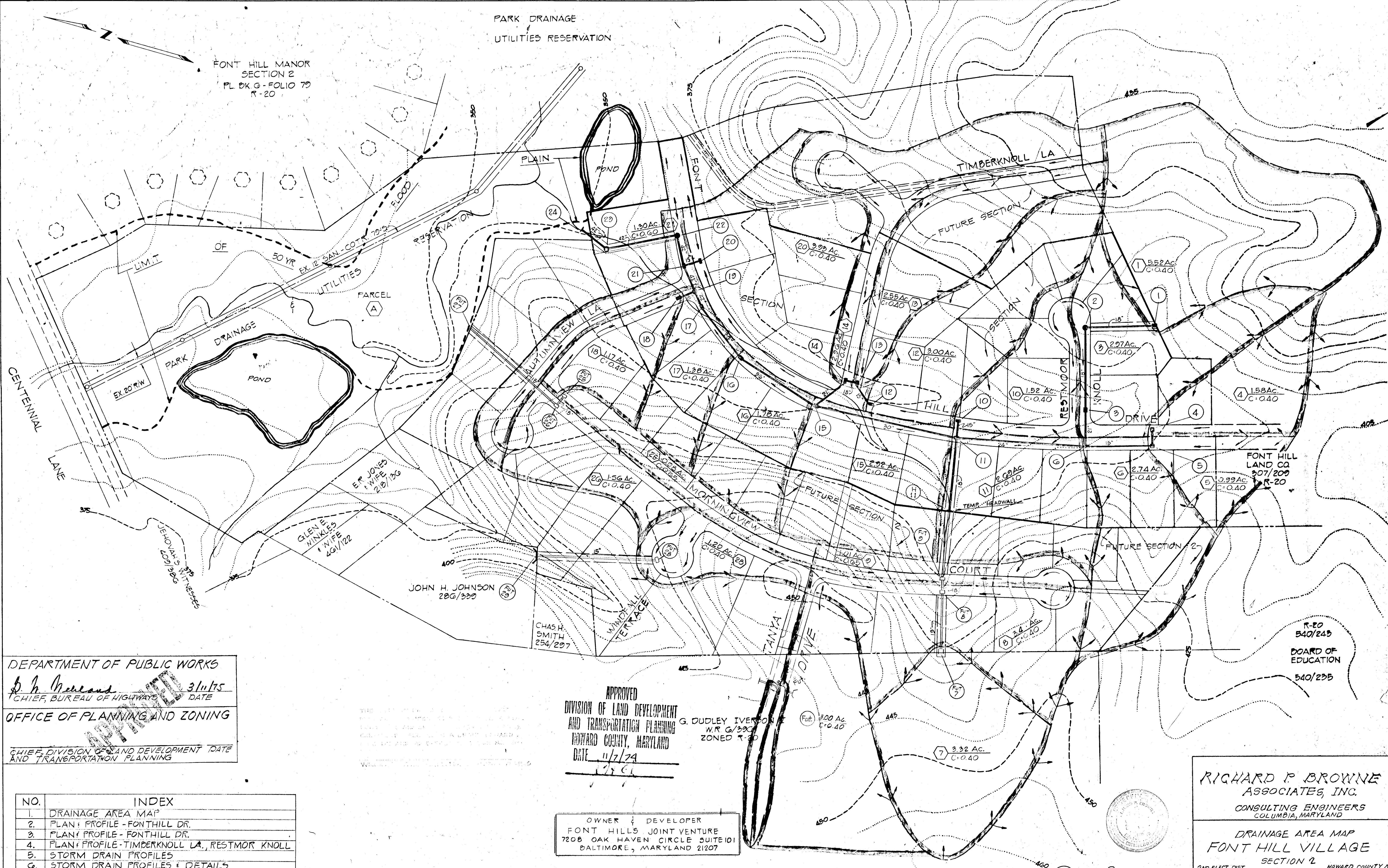
**HOWARD SOIL CONSERVATION DISTRICT**  
THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION & SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.  
REVIEWED *James M. Helm* 7-24-73 DISTRICT CONSERVATIONIST DATE  
APPROVED *Robert J. Ziehm* 7-24-73 HOWARD SOIL CONSERVATIONIST DATE

Richard Wayne Keeler Md. P.E. Reg # 5730

**BROWNE-KEELER ASSOCIATES, INC.**  
CONSULTING ENGINEERS MARYLAND  
**SEDIMENT CONTROL PLAN FONT HILL VILLAGE SECTION 1**  
OWNER & DEVELOPER: FONT HILLS JOINT VENTURE, 7206 OAK HAVEN CIRCLE SUITE 101, BALTIMORE, MARYLAND 21207  
Scale: 1"=100'  
Date: 4-17-72  
J.O. 3348

PARK DRAINAGE  
UTILITIES RESERVATION

FONT HILL MANOR  
SECTION 2  
PL BK G - FOLIO 79  
R-20



DEPARTMENT OF PUBLIC WORKS  
*D. H. McCreary* 3/11/75  
CHIEF, BUREAU OF HIGHWAYS DATE

OFFICE OF PLANNING AND ZONING  
*G. Dudley Iverson*  
CHIEF, DIVISION OF LAND DEVELOPMENT AND TRANSPORTATION PLANNING DATE

APPROVED  
DIVISION OF LAND DEVELOPMENT  
AND TRANSPORTATION PLANNING  
HOWARD COUNTY, MARYLAND  
DATE 11/7/74

OWNER & DEVELOPER  
FONT HILLS JOINT VENTURE  
7208 OAK HAVEN CIRCLE SUITE 101  
BALTIMORE, MARYLAND 21207

RICHARD P. BROWNE  
ASSOCIATES, INC.  
CONSULTING ENGINEERS  
COLUMBIA, MARYLAND

DRAINAGE AREA MAP  
FONT HILL VILLAGE  
SECTION 2

2ND ELECT. DIST. HOWARD COUNTY MD  
DES. BY T.P. SCALE 1"=100' DWG. NO. 1 OF 6  
DRN. BY G.J. DATE 4-13-72  
CHK. BY J.E.C.P. JR. 3348

NO.	INDEX
1.	DRAINAGE AREA MAP
2.	PLAN & PROFILE - FONTHILL DR.
3.	PLAN & PROFILE - FONTHILL DR.
4.	PLAN & PROFILE - TIMBERKNOLL LA, RESTMOR KNOLL
5.	STORM DRAIN PROFILES
6.	STORM DRAIN PROFILES & DETAILS

*Richard P. Browne*  
RICHARD P. BROWNE P.E. No. 5238