

PLANT SCHEDULE				
KEY	PLANT NAME	SIZE	QUANT.	REMARKS
(S)	Acer Saccharum 'Green Mt.	2 1/4" CAL	21	B & B Heavy Heads
(R)	Acer Rubrum 'Red Sunset'	"	9	"
(R)	Red Sunset Maple	"	"	"

- STREET TREE NOTES**
- Contractor shall verify location of underground utilities prior to digging.
 - Final location of trees may be adjusted slightly to accommodate field conditions.
 - Planting procedure shall comply with "Landscape Specs. for Baltimore Washington Metropolitan Areas."
 - Substitution of the approved species may be permitted provided that the planting is in accordance with the street tree and landscape requirements as specified in Section 16.181 of the Ho Co. Subdivision Regulations.

DORSEY HALL
SECTION 2 AREA 2
PLATS 8395 & 8396
OPEN SPACE LOT 3

100 Yr. Flood Plain, Sewer, Drainage, and Utility Easement

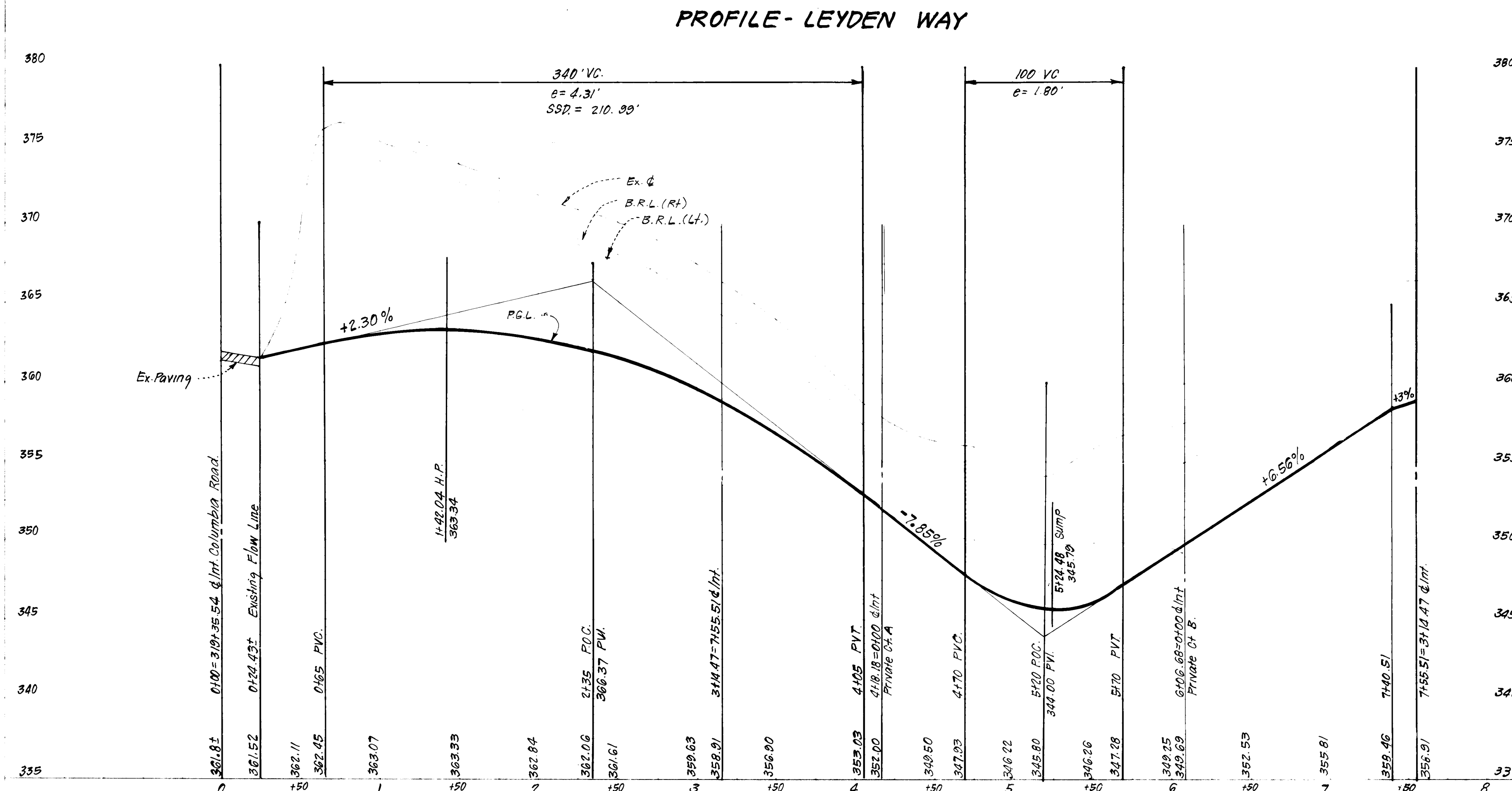
* 122.8' Indicates 100 Yr. Flood Plain Elev.

Reviewed for: *Howard Co. S.C.D.*
Name: *John P. Fisher*
Signature: *[Signature]*
U.S. Soil Conservation Service

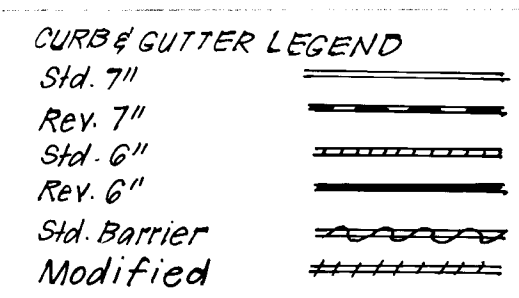
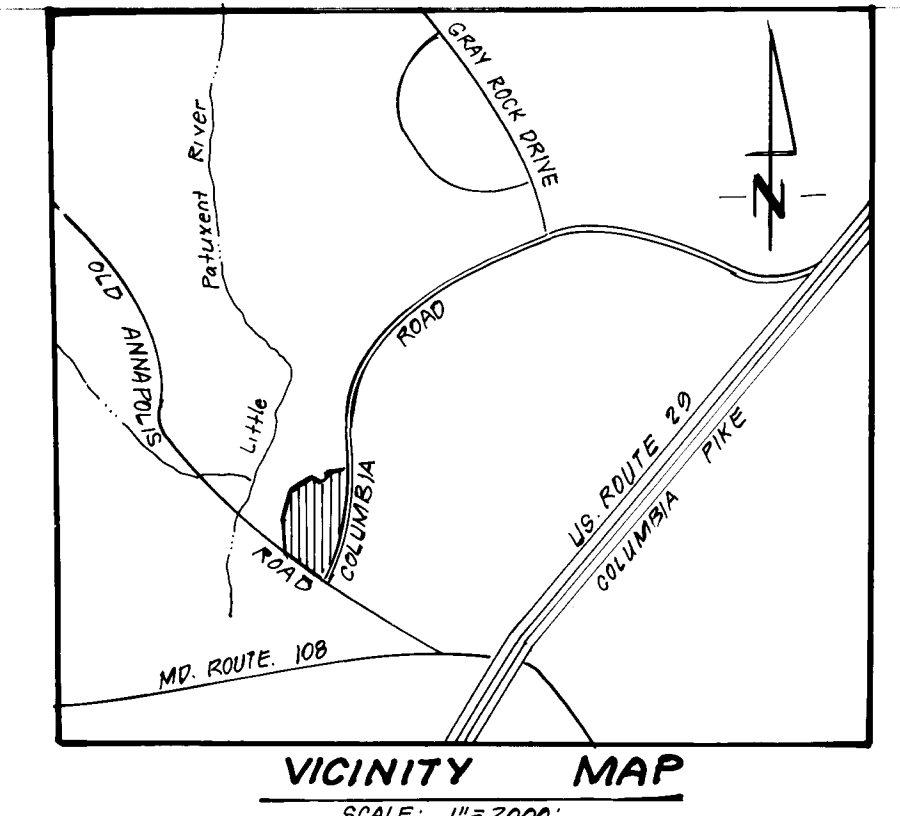
THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.

Stephen P. Fisher
Approved *4/16/87*

CENTERLINE CURVE DATA					
STATIONS	RADIUS	ARC	DELTA	TAN.	CHORD & BEARING
PC 2114.31 to PT 3+40.07	300.00	125.66	24° 00' 00"	63.77	124.75' N 72° 00' 00" W
PC 0100.68 to PT 7+55.51	250.00	148.83	34° 06' 34"	76.60	140.64' N 50° 56' 43" E



- GENERAL NOTES**
- All storm drain paving shall be constructed in accordance with the latest edition and specifications of Howard County & MDSA.
 - Types of storm drainage refer to the Standard Details of Ho Co. & MDSA.
 - Trench compaction for storm drains within road or street right of way limits shall be in accordance with "Ho Co Design Manual, Vol. IX" Std. G-2.01.
 - Information concerning underground utilities was obtained from available records, but the Contractor must determine the exact location and elevation of mains by digging test pits, by hand, at all utility crossings, well in advance of construction.
 - All utility companies shall be notified 24 hrs in advance of construction.
 - All traffic services, parking and signing to be done in accordance with the "Manual of Uniform Traffic Control Devices," 1979 Edition.
 - Sign and Crest Vertical Curves were designed in accordance with "Ho Co Design Manual," Vol. III.
 - Design Speed: See Table Sht. 3. Zoning: RSC.
 - The contractor/developer shall contact the Construction Inspection/Survey Division 24 hrs in advance of commencement of work. Ph. 772-7272.
 - Storm Water Management is Provided for by a Central Facility under F. 85.16.
 - Flood Plain elevations taken from Dorsey Hall 2/2 Plat # 6396.



NOTE: Warp Paving (No Crown)
Sta. 0104.43 to 0142.03
Leyden Way

DEVELOPER/BUILDER'S CERTIFICATE

I We certify that all development and construction will be done in accordance with the plan of development and plan for drainage 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 a certified site inspection by the Howard Soil Conservation District or their authorized agents, as are deemed necessary.

John P. Troutman
Signature of Developer/Builder
March 2, 1987
Date

ENGINEER'S CERTIFICATE

I hereby certify that this plan for drainage and sediment control was prepared in accordance with the requirements of the Howard Soil Conservation District.

G. Nelson Clark
Date
2-25-87

APPROVED: DEPARTMENT OF PUBLIC WORKS

James M. Saw
Chief, Bureau of Engineering
Date: 6-21-87

APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING

John M. Murrain
Chief, Division of Land Development & Zoning Administration
Date: 6-16-87

CLARK · FINEFROCK & SACKETT INC.
ENGINEERS · PLANNERS · SURVEYORS
1315 LOCKWOOD DRIVE SILVER SPRING, MD 20904 (301) 593-3400

DESIGNED	GLB	SCALE	As Shown
DRAWN	KIW	DRAWING	1 OF 5
CHECKED	GLB	JOB NO.	86-084
DATE	2-25-87	FILE NO.	86-084-D

FOR: SUMMERHILL LTD. PARTNERSHIP
Go The Troutman Co., General Partner
John P. Troutman, President
Suite 300, Wide Lake Village Green,
Columbia, Md. 21044

OWNER: THE HOWARD RESEARCH & DEVELOPMENT LAND COMPANY
10275 LITTLE HAVEN PARKWAY
Columbia, Md. 21044

PROFILE SCALE
HORIZ. 1"=50'
VERT. 1"=5'

PROFILE LEGEND
Profile Grade Line
Existing & B.R.L. (RT)
B.R.L. (LT)

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 Soil Conservation District or their authorized agents, as are deemed necessary."

John L. Troutman
 Signature of Developer/Builder
 March 2, 1987
 Date

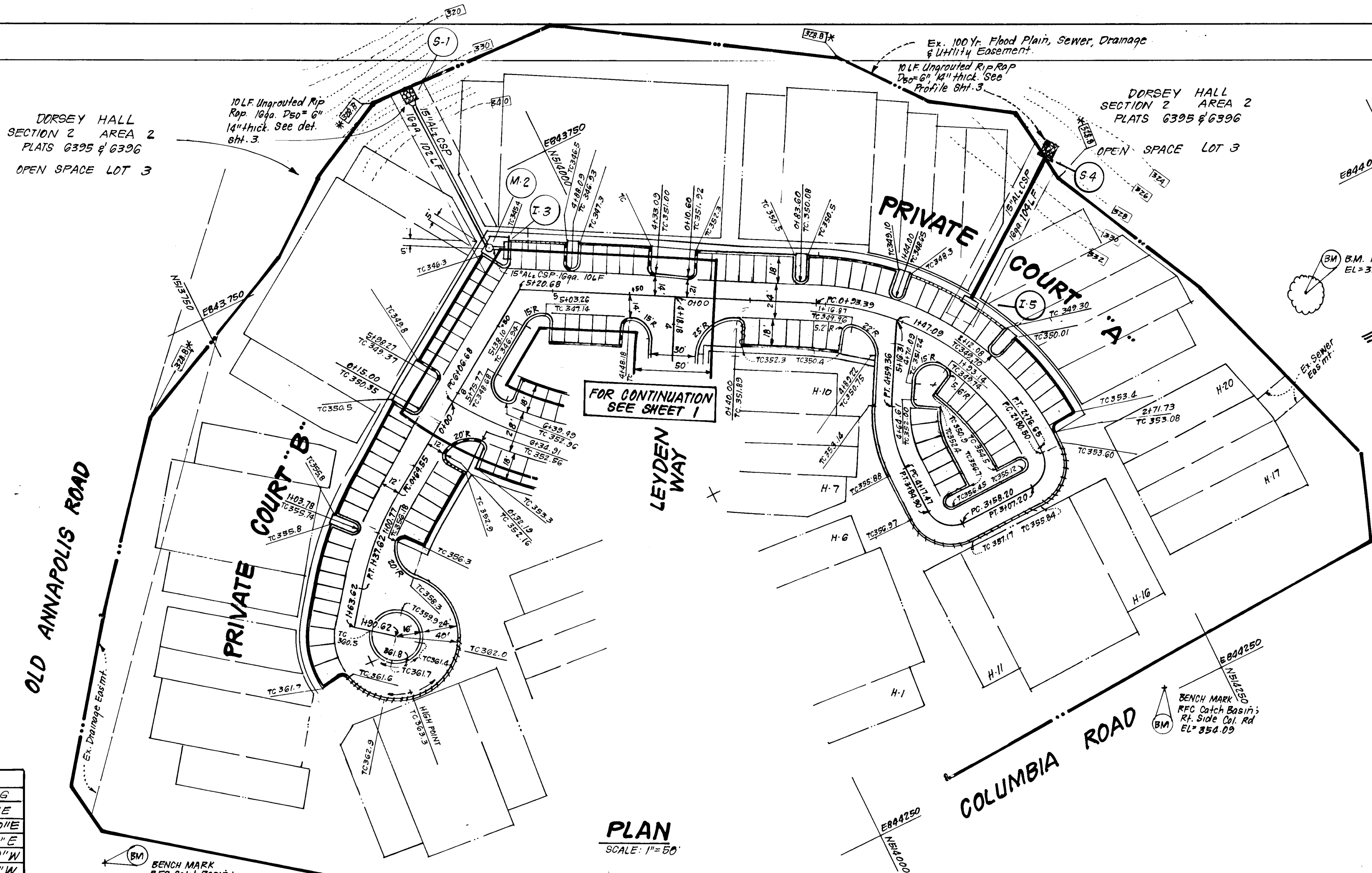
Reviewed for *Howard* *6.6.87*
 Name
 and meets Technical Requirements
J. Helm *6/11/87*
 Signature Date
 U.S. Soil Conservation Service

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

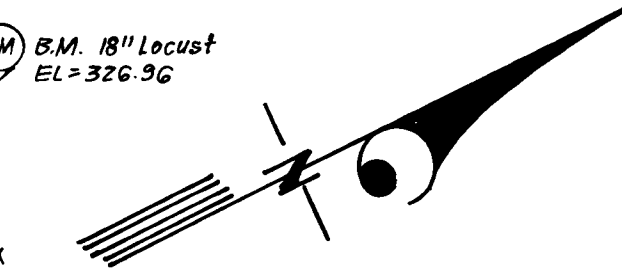
Stephen L. Fisher *4/16/87*
 Approved Date

*Private Court "B"
 + Private Court "A"

CENTERLINE CURVE DATA					
STATIONS	RADIUS	ARC	DELTA	TAN	CHORD & BEARING
* PC 0169.55 to PT 1137.62	195.00'	68.07'	20°00'00"	34.38'	67.72' S43°00'00"E
+ PC 0193.39 to PT 2176.65	175.00'	183.26'	60°00'00"	101.04'	175.00' N59°00'00"E
+ PC 2180.50 to PT 3107.20	17.00'	26.70'	90°00'00"	17.00'	26.04' S46°00'00"E
+ PC 3158.20 to PT 3184.90	17.00'	26.70'	90°00'00"	17.00'	26.04' S44°00'00"W
+ PC 4117.47 to PT 4159.36	80.00'	41.89'	30°00'00"	21.44'	41.41' N76°00'00"W



PLAN
 SCALE: 1"=50'



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 Soil Conservation District.

G. Nelson Clark
 Signature
 2-25-87
 Date
 State of Maryland Professional Engineer License No. 122587

See Sheet 1 for Curb and Gutter Legend.

APPROVED: DEPARTMENT OF PUBLIC WORKS
James J. Lee *6/25/87*
 Chief, Bureau of Engineering Date

APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING
John W. Muschman *6/16/87*
 Chief, Division of Land Development and Zoning Administration Date

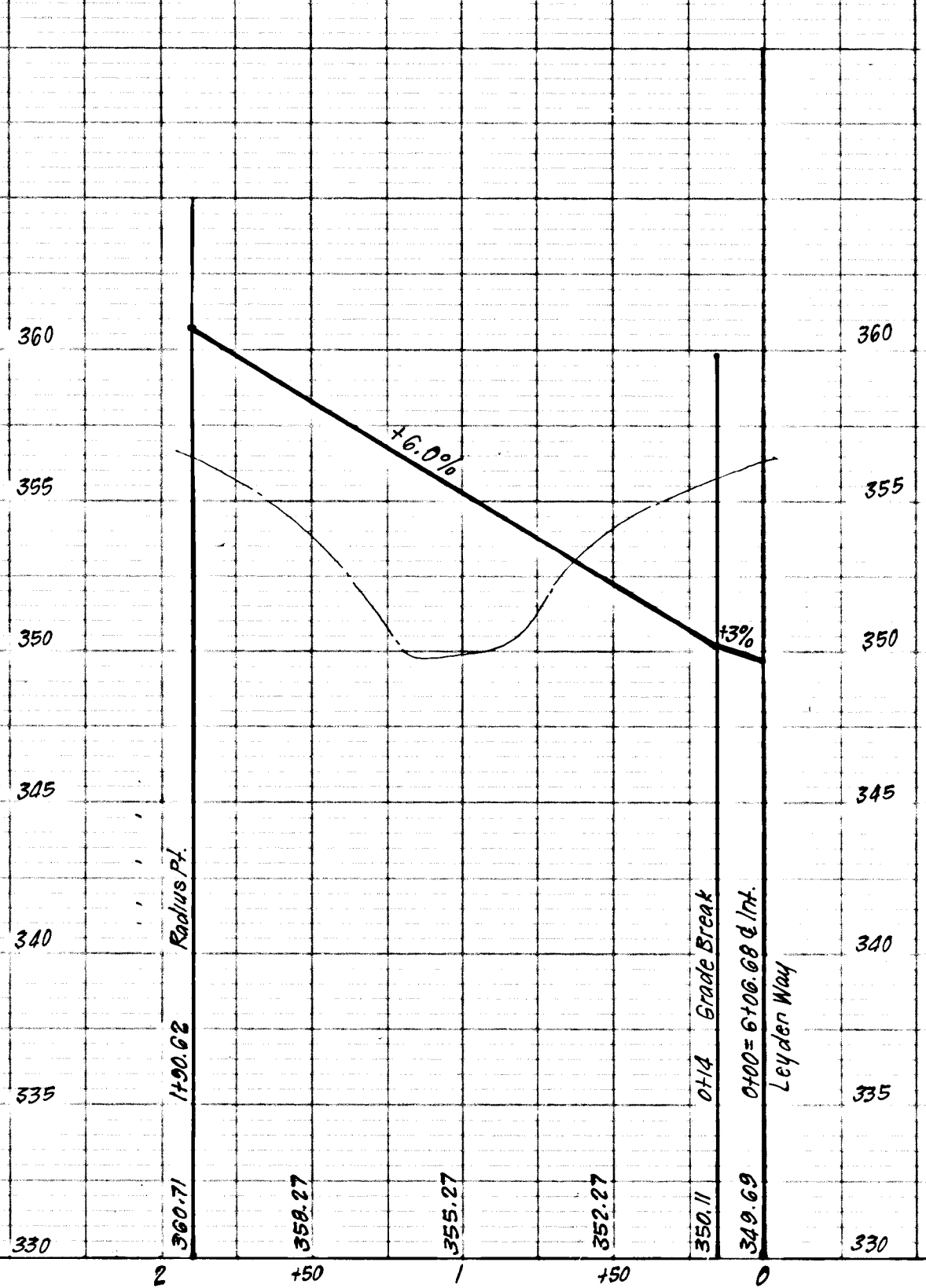
CLARK · FINEFROCK & SACKETT INC.
 ENGINEERS · PLANNERS · SURVEYORS
 11315 LOCKWOOD DRIVE SILVER SPRING, MD 20904 (301) 593-3400

DESIGNED	ROAD CONSTRUCTION PLANS PRIVATE COURT "A" & PRIVATE COURT "B"	SCALE	AS SHOWN
DRAWN	GLB	DRAWING	2 OF 5
CHECKED	KIW	JOB NO.	86-084
DATE	2-25-87	FILE NO.	86-084-D

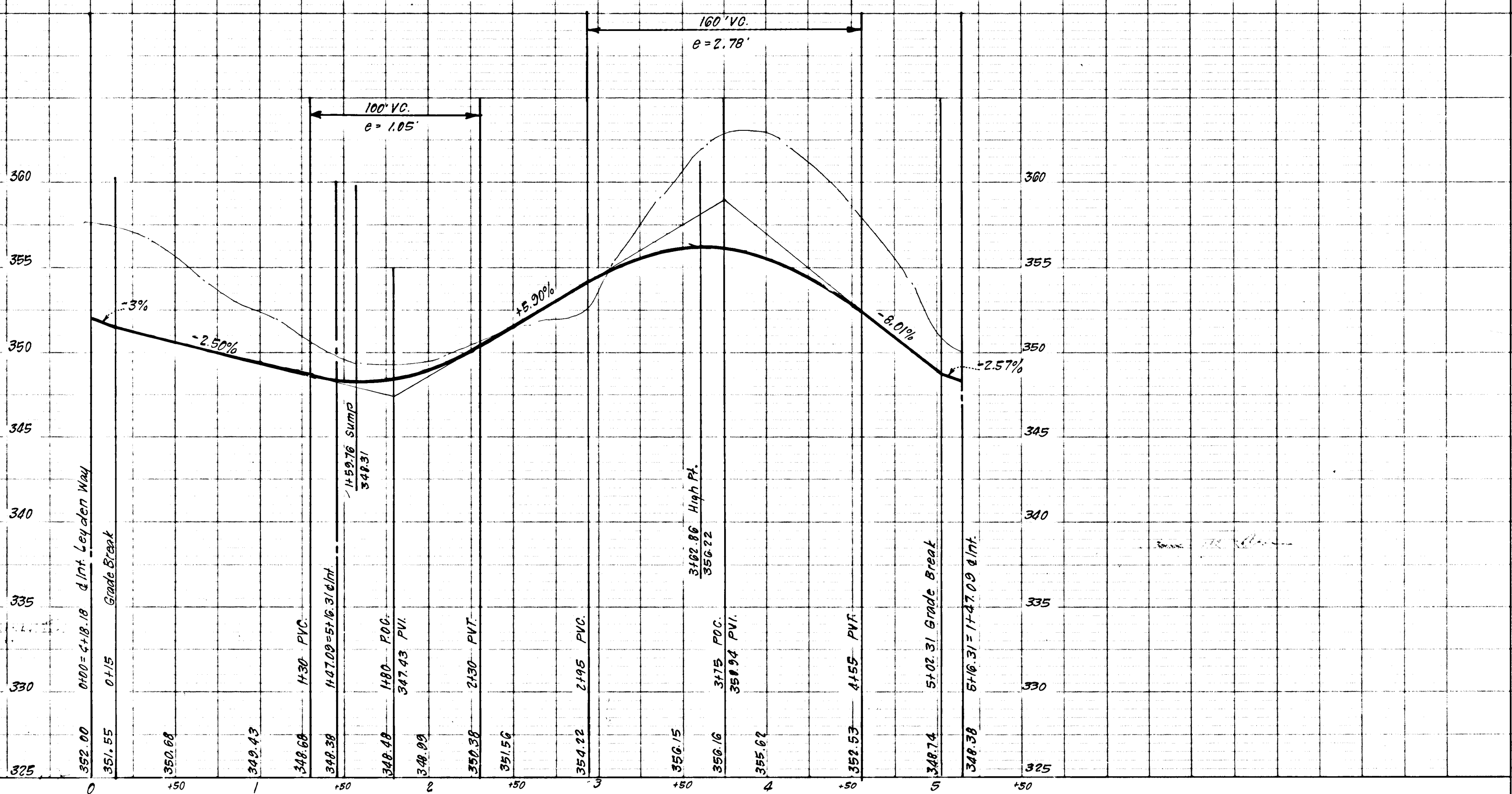
FOR: SUMMERHILL LTD. PARTNERSHIP
 c/o The Troutman Co., General Partner
 John T. Troutman, President
 Suite 300, Wilde Lake Village Green
 Columbia, Md. 21044

OWNER: The Howard Research & Development Land Company
 10275 Little Palustris Parkway
 Columbia, Md. 21044

PROFILE - PRIVATE COURT "B"



PROFILE - PRIVATE COURT "A"

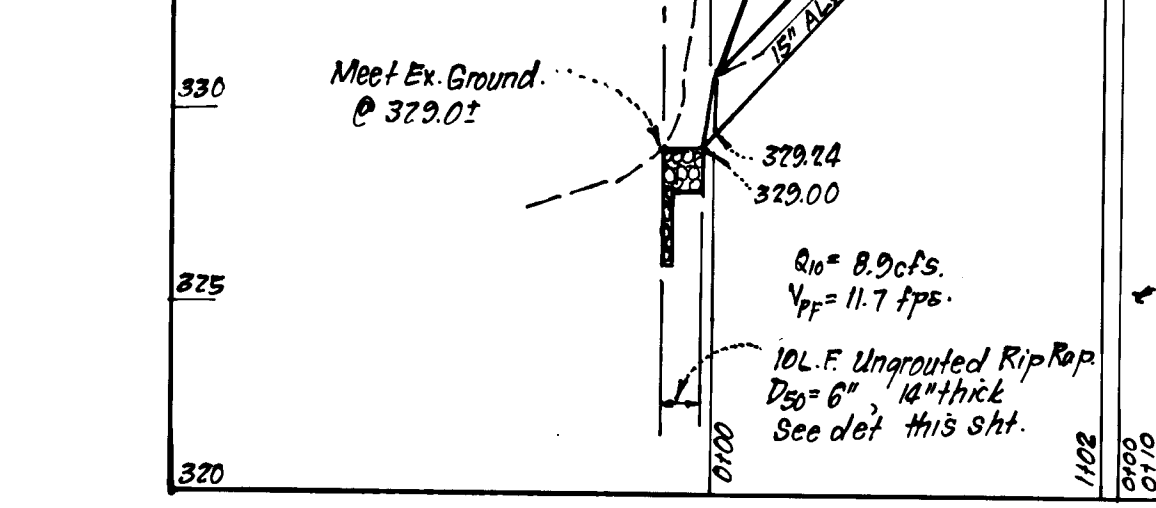
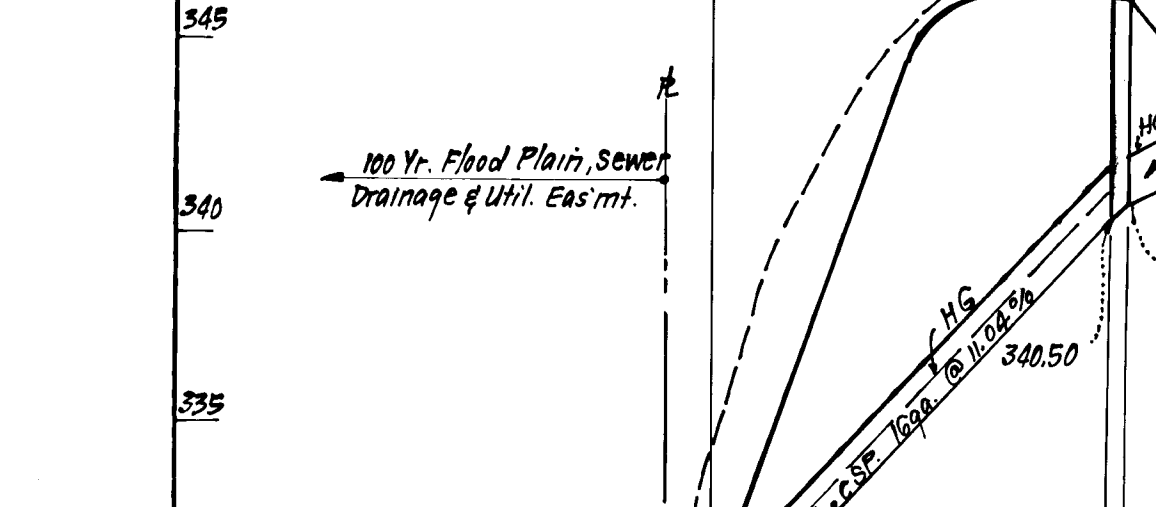
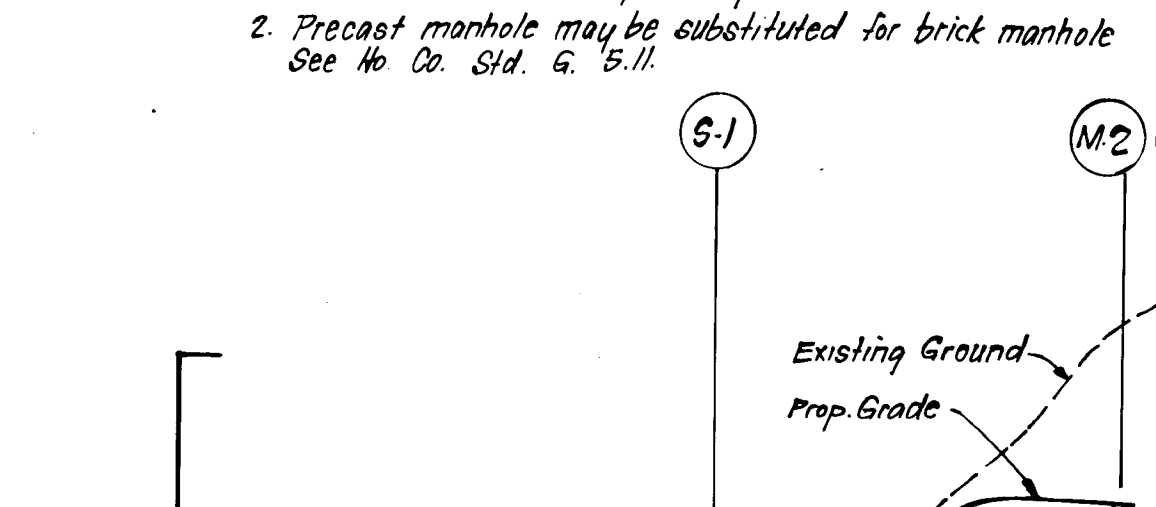
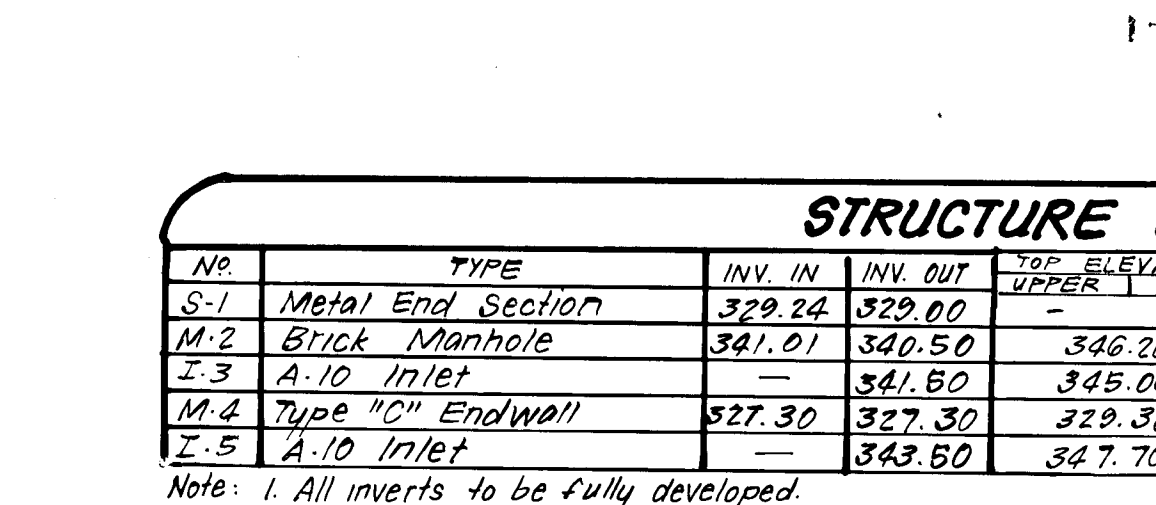
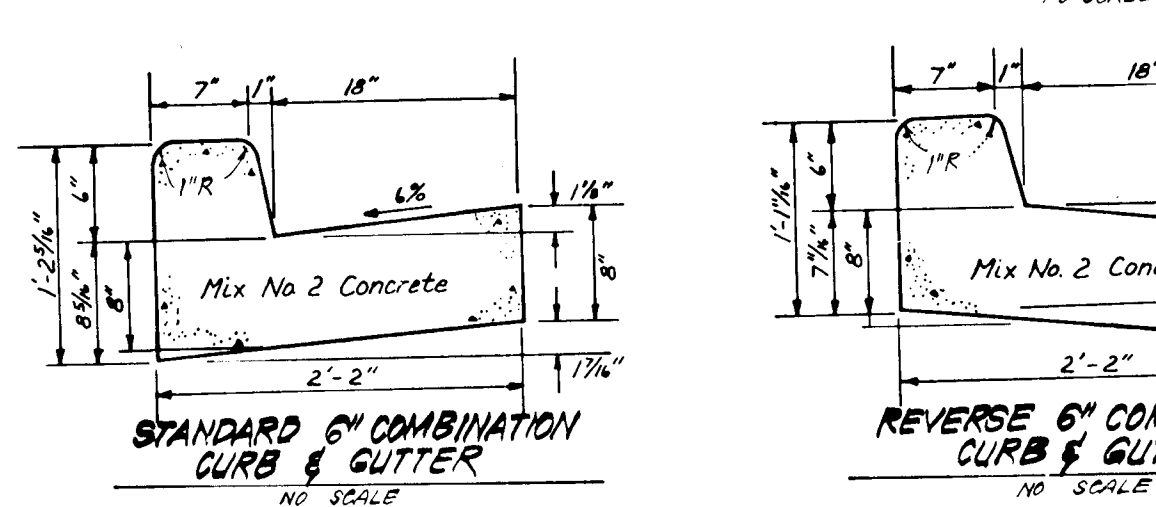
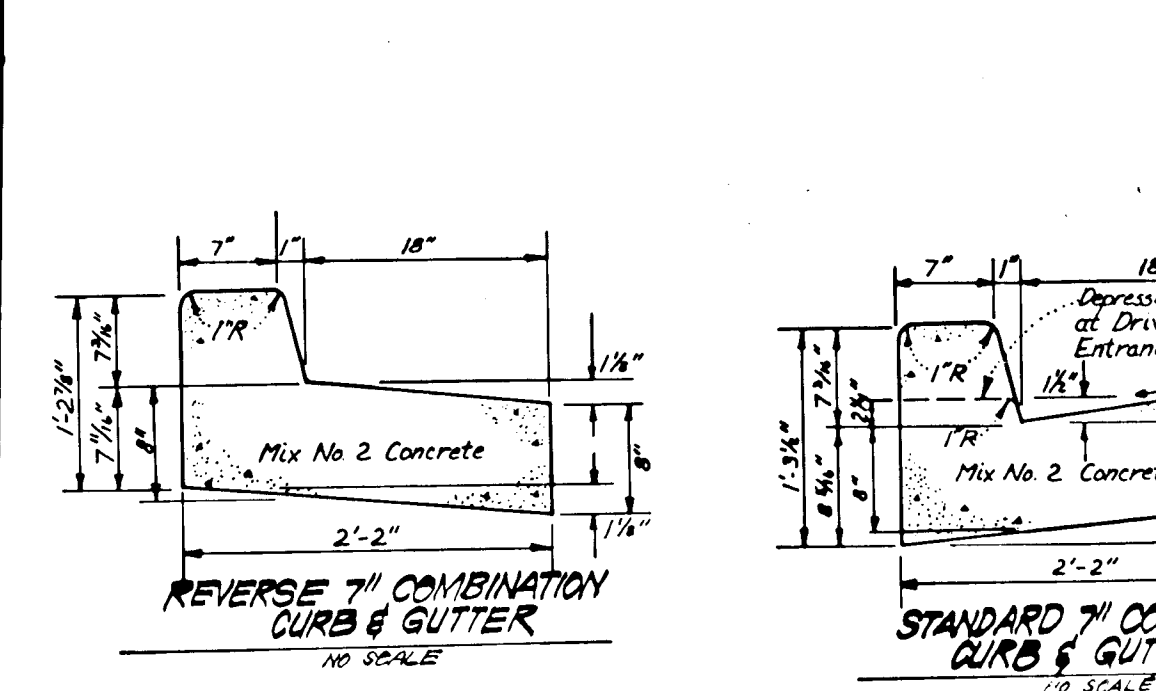


PROFILE SCALE
 HORIZ. 1"=50'
 VERT. 1"=5'

PROFILE LEGEND:
 Profile Grade Line
 Existing &

Notes:
 1. Longitudinal Joint between sidewalk & curb shall be continuous and to a depth of 1/4 the thickness of the sidewalk or 1" Max. Longitudinal Joints shall run from back edge of sidewalk continuous to the bottom face of curb to a depth of 1/4 the sidewalk's depth.
 2. Provide 1/4" expansion joints at 15' intervals in institutional yards to full cross-section.
 Note: Monolithic curb and sidewalk can be used as an alternate to reverse 4" curb & gutter where curb is adjacent to sidewalk.

MONOLITHIC CURB & SIDEWALK - PRIVATE PARKING AREA
 NO SCALE



STRUCTURE SCHEDULE

NO.	TYPE	INV. IN	INV. OUT	TOP ELEVATION UPPER LOWER	REMARKS	LOCATION
S-1	Metal End Section	329.24	329.00	-	No. Co. Std. SD 5.61	See Plan
M-2	Brick Manhole	341.01	340.50	346.20	" " G 5.01	See Plan
Z-3	A-10 Inlet	341.01	345.00	-	" " SD 4.02 W=2'6"	" "
M-4	Type "C" Endwall	327.30	329.30	-	" " SD 5.21 15" Ø	" "
Z-5	A-10 Inlet	343.60	347.70	-	" " SD 4.02 W=2'6"	" "

Note: 1. All inverts to be fully developed.
 2. Precast manhole may be substituted for brick manhole See No. Co. Std. G. 5.11.

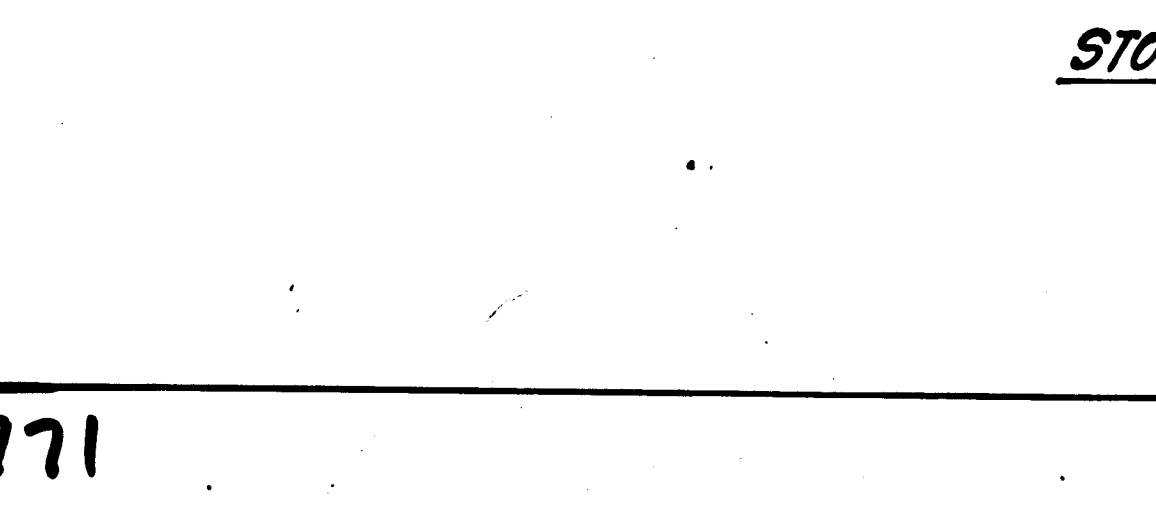
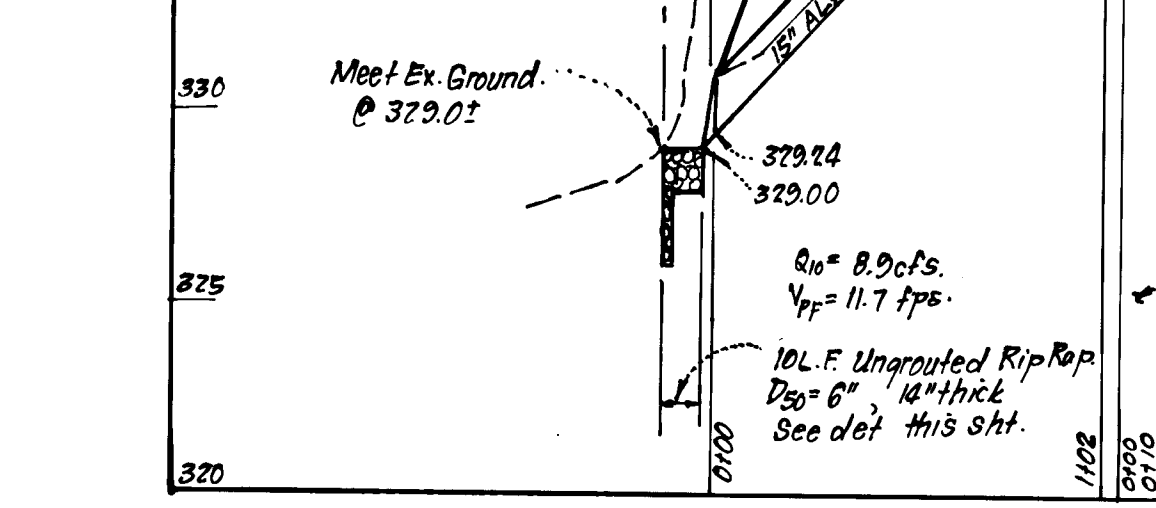
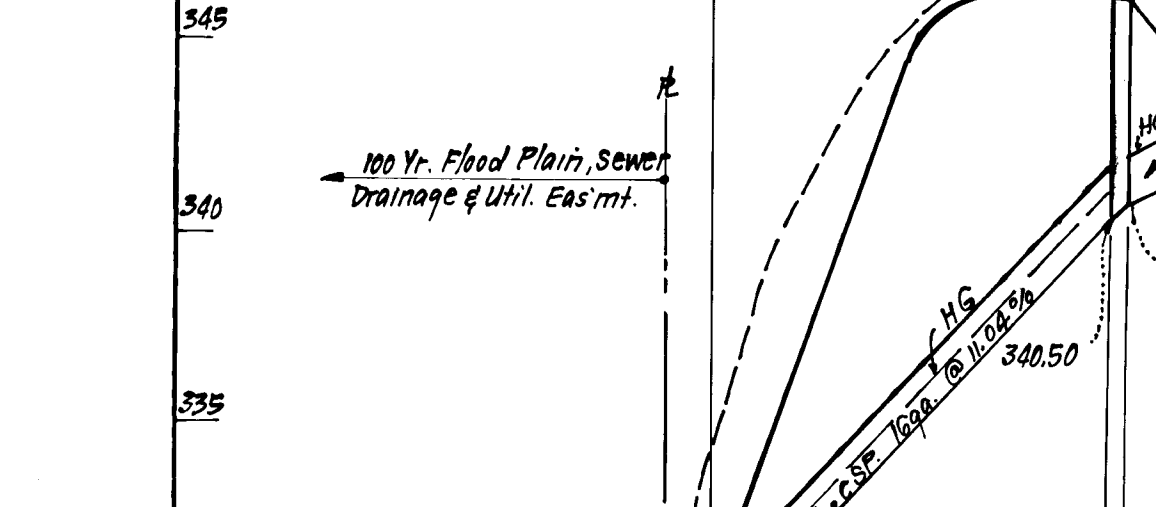
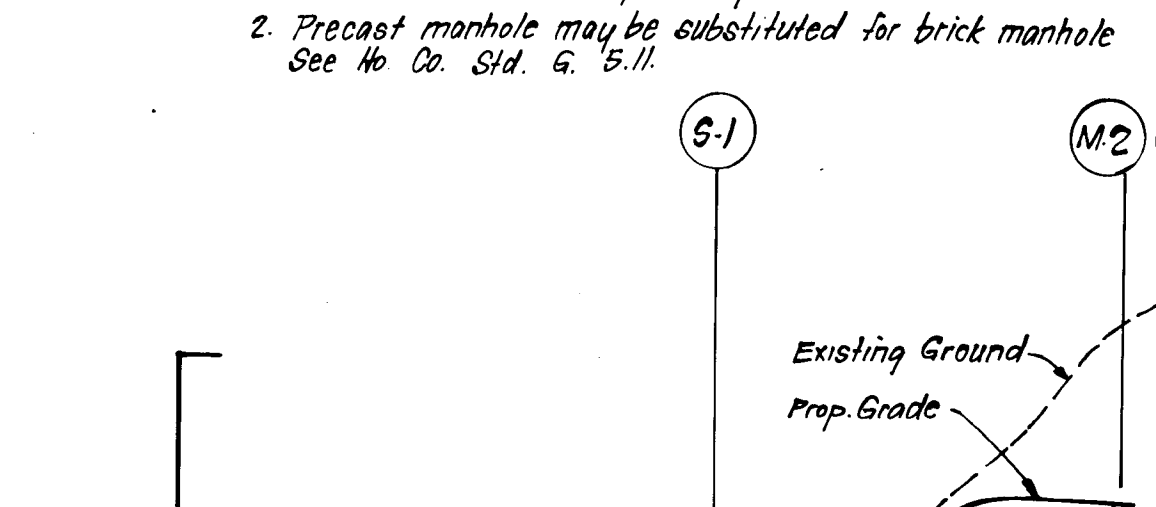
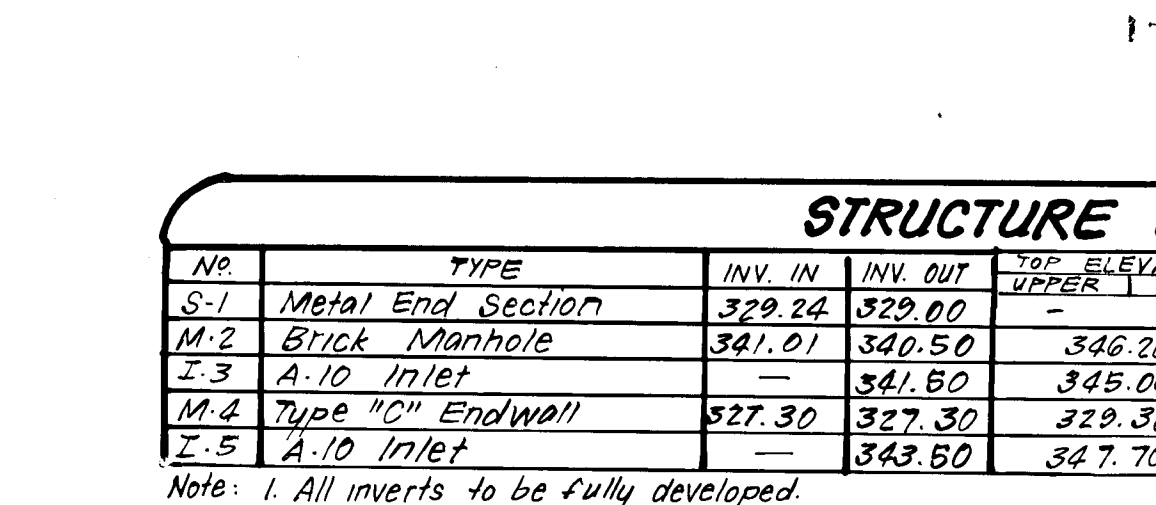
STORM DRAIN PROFILES
 SCALES: HORIZ. 1"=50'
 VERT. 1"=5'

ALTERNATE PAVING SECTION FOR PUBLIC ROADS (SECTION P-2)

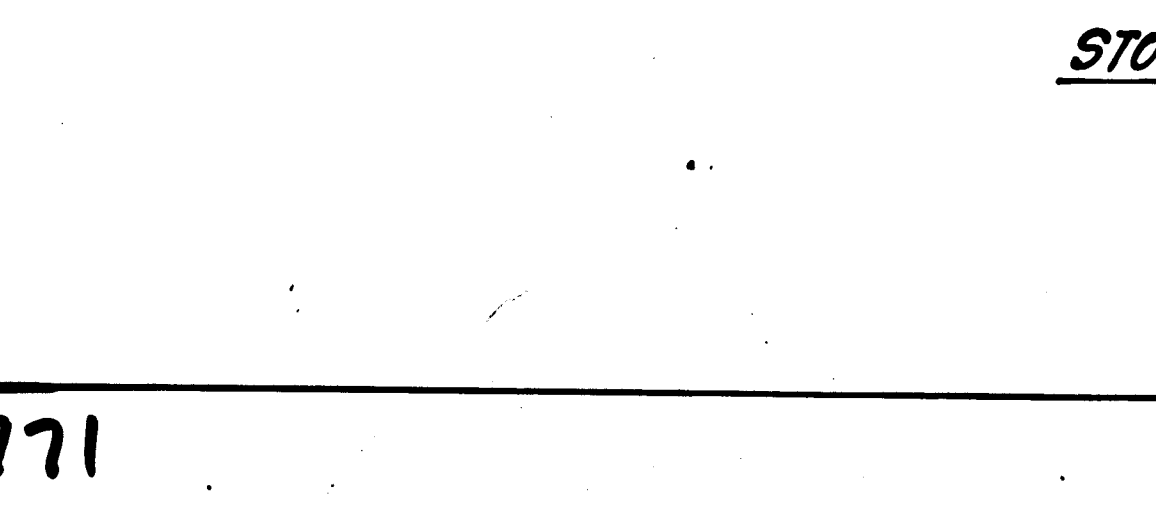
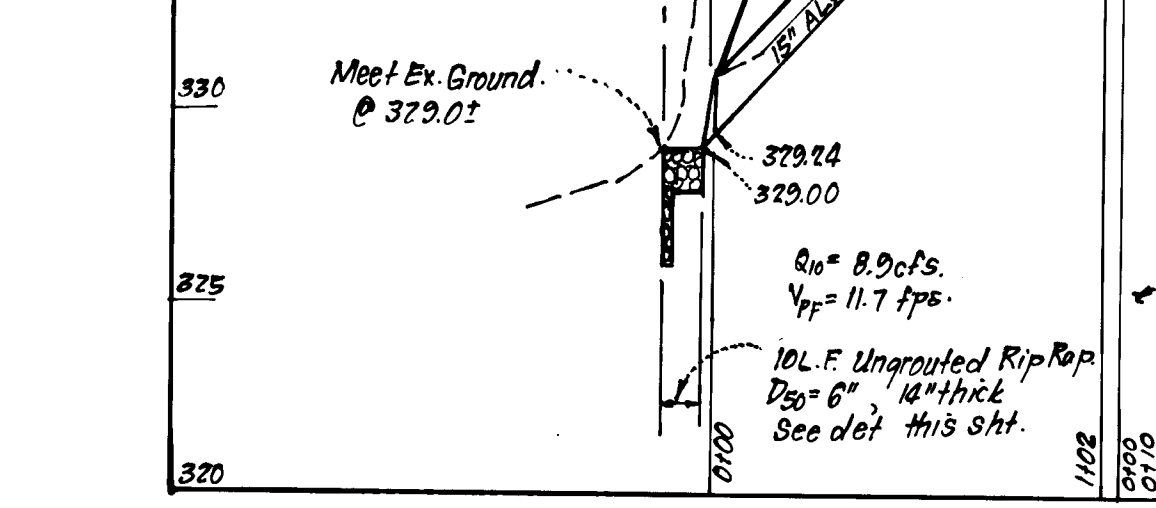
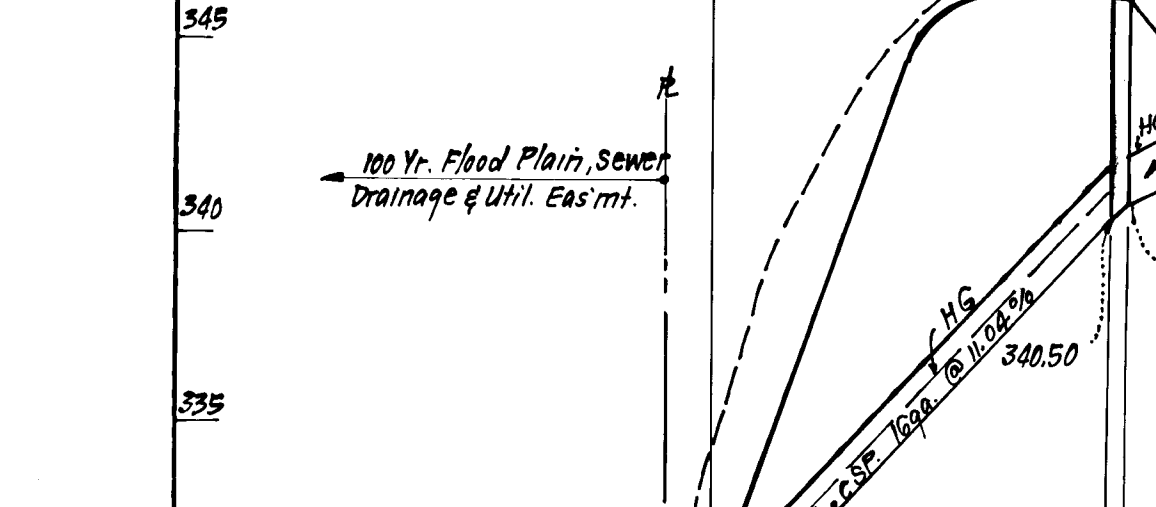
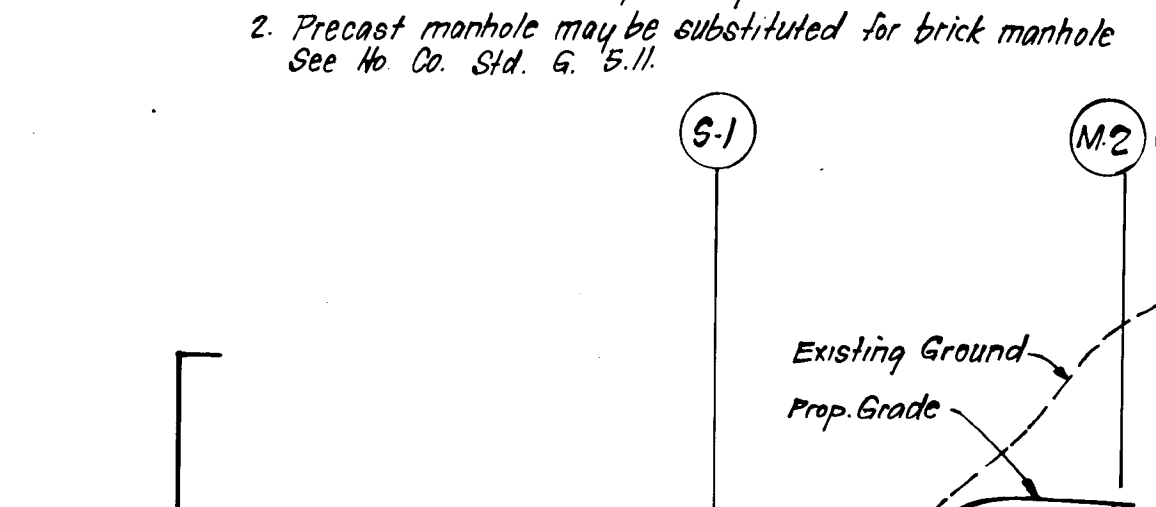
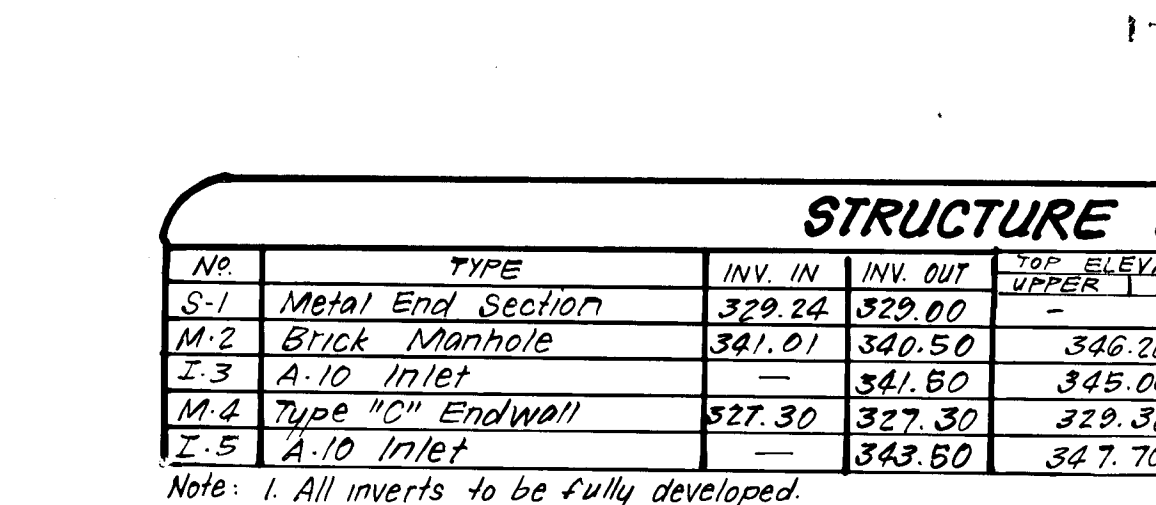
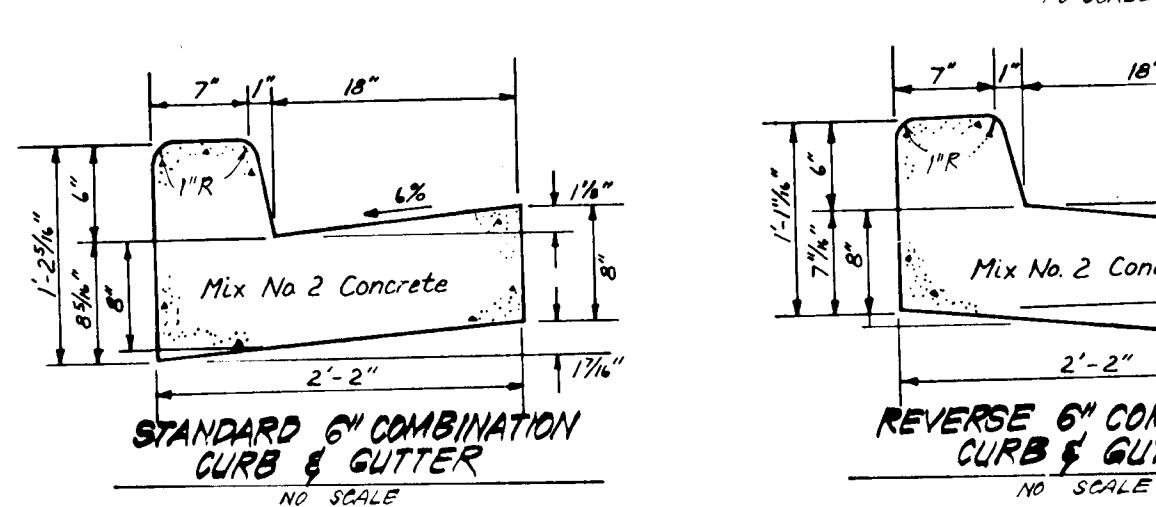
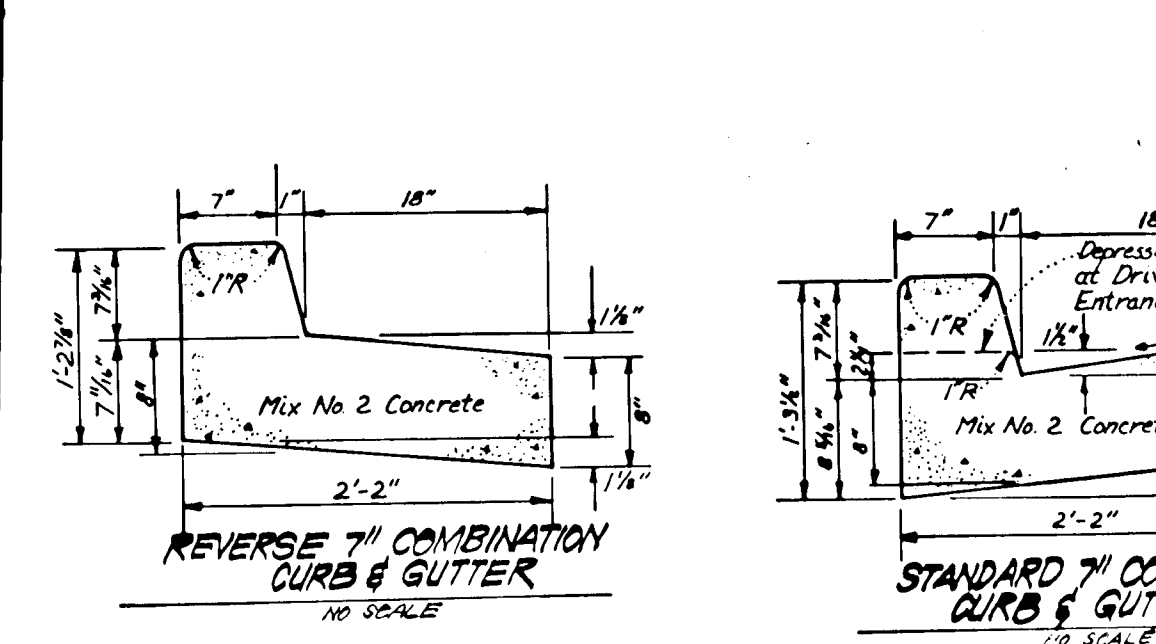
Bituminous Conc. Surface	1 1/2"
Bituminous Conc. Base	2 1/4"
Prime	1"
8" Crusher Run Base (Placed in 2 Courses)	8"
or	6"
4" Dense Graded Stabilized Aggregate Base Course	4"

ALTERNATE PAVING SECTION FOR PARKING AREAS (SECTION P-1)

Bituminous Conc. Surface	1"
Bituminous Conc. Base	2"
Prime	1"
5" Crusher Run Base Course	5"
or	4"
4" Dense Graded Stabilized Aggregate Base Course	4"



UNGRAouted RIPRAP PAVING DETAILS FOR S-1
 NO SCALE

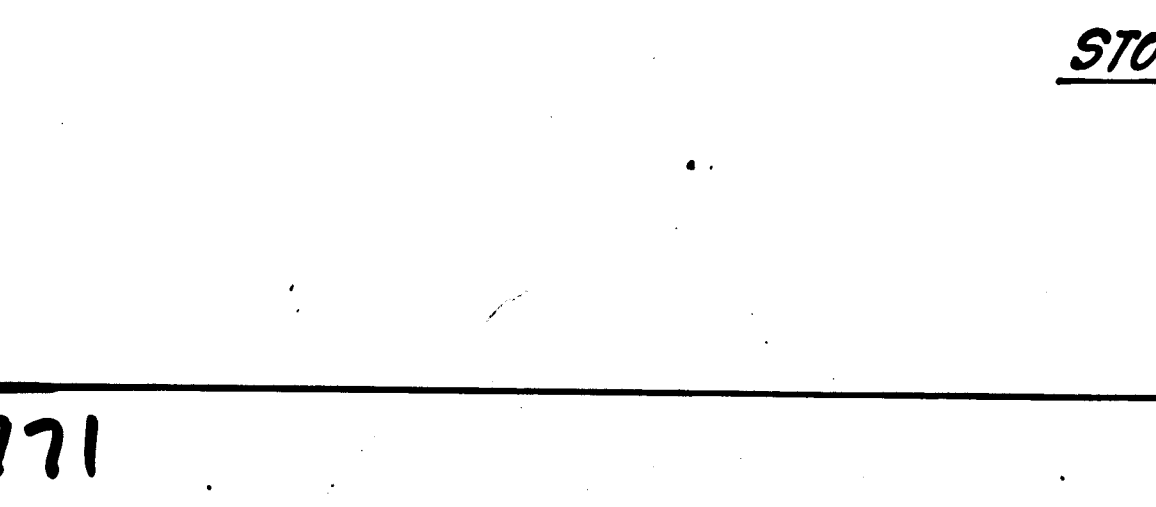
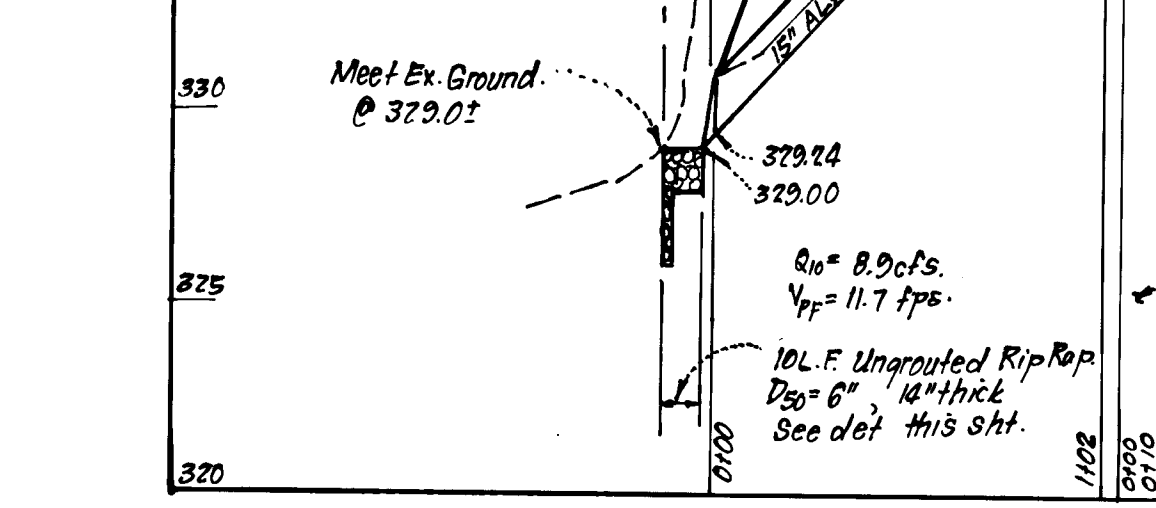
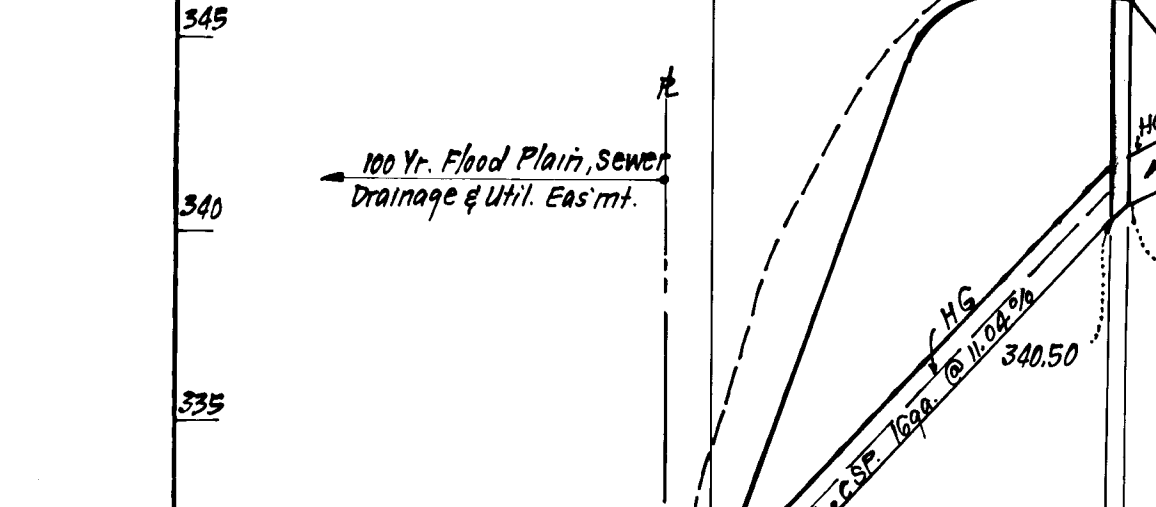
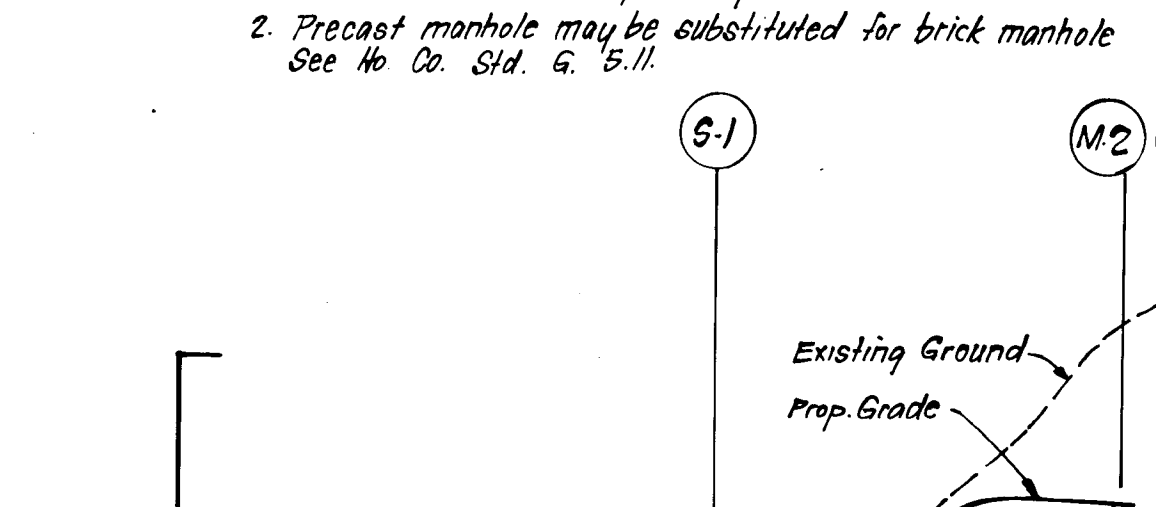
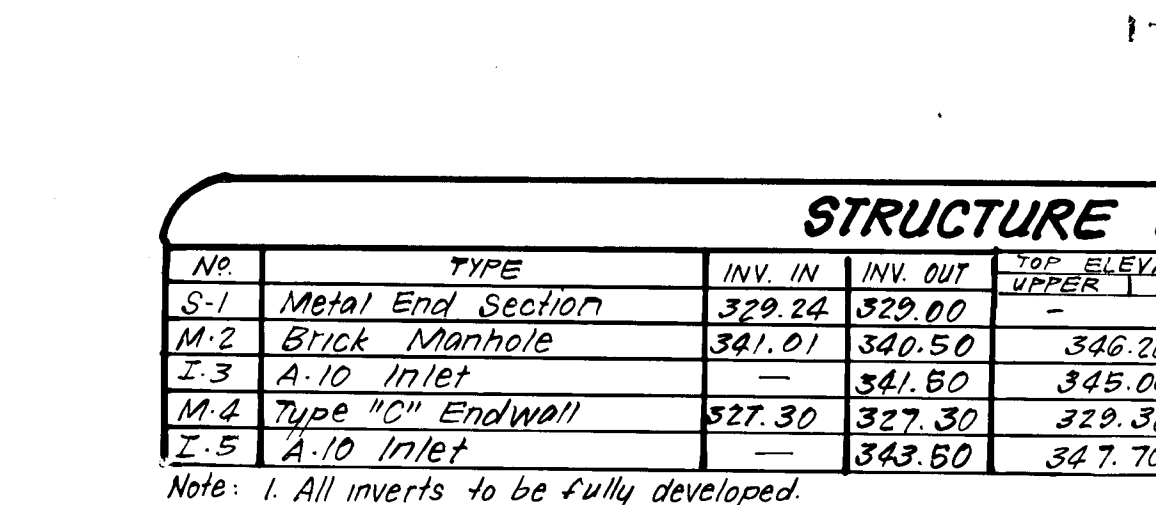
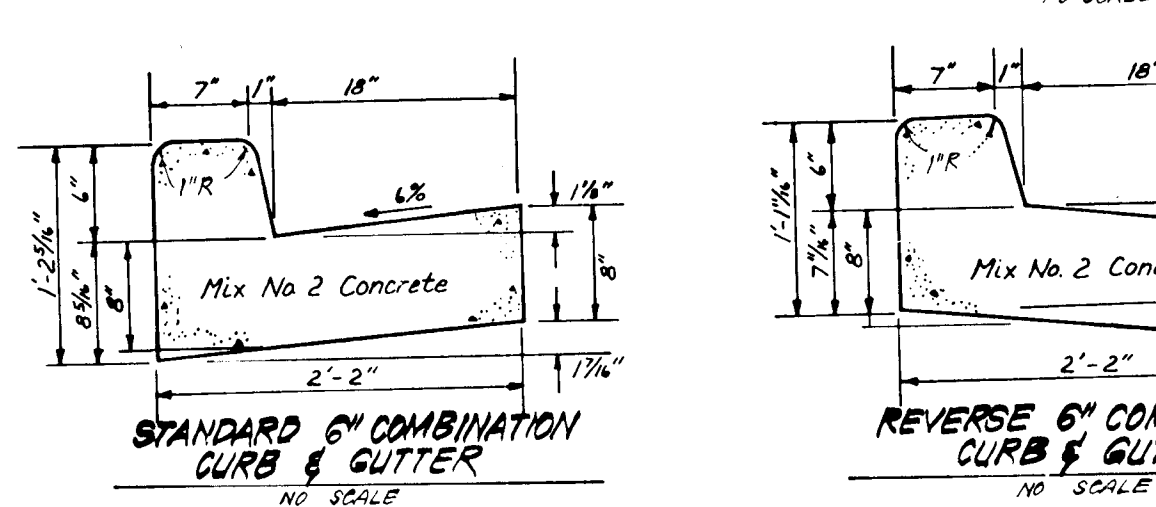


UNGRAouted RIPRAP PAVING DETAILS FOR S-4
 NO SCALE

PIPE SCHEDULE

SIZE	TYPE	LENGTH
15"	AL ₂ CSP 16ga	216 LF

* 2 1/2" x 1/8" Annular Corrugations 16 gauge, CMP w/ Aluminumized Coating for Corrosion Protection may be substituted for AL₂ CSP.



STORM DRAIN PROFILES
 SCALES: HORIZ. 1"=50'
 VERT. 1"=5'

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 Soil Conservation District.

Signature: *G. Nelson Clark*
 Date: 2-25-87

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 Soil Conservation District or their authorized agents, as are deemed necessary."

Signature: *John S. Trivittman*
 Date: March 2, 1987

REVIEWED FOR

Reviewed for: *Howard* S.C.D. and meets Technical Requirements

Signature: *Stephen L. Rubin*
 Date: 4/1/87

U.S. Soil Conservation Service

APPROVED: DEPARTMENT OF PUBLIC WORKS

Signature: *James M. Law*
 Date: 4/2/87

Chief, Bureau of Engineering

APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING

Signature: *Arthur W. Muechler*
 Date: 6-16-87

Chief, Division of Land Development and Zoning Administration

CLARK · FINEFROCK & SACKETT INC.
 ENGINEERS · PLANNERS SURVEYORS

11315 LOCKWOOD DRIVE SILVER SPRING, MD 20904 (301) 593-3400

ROAD CONSTRUCTION PLANS
STORM DRAIN & PAVING DETAILS

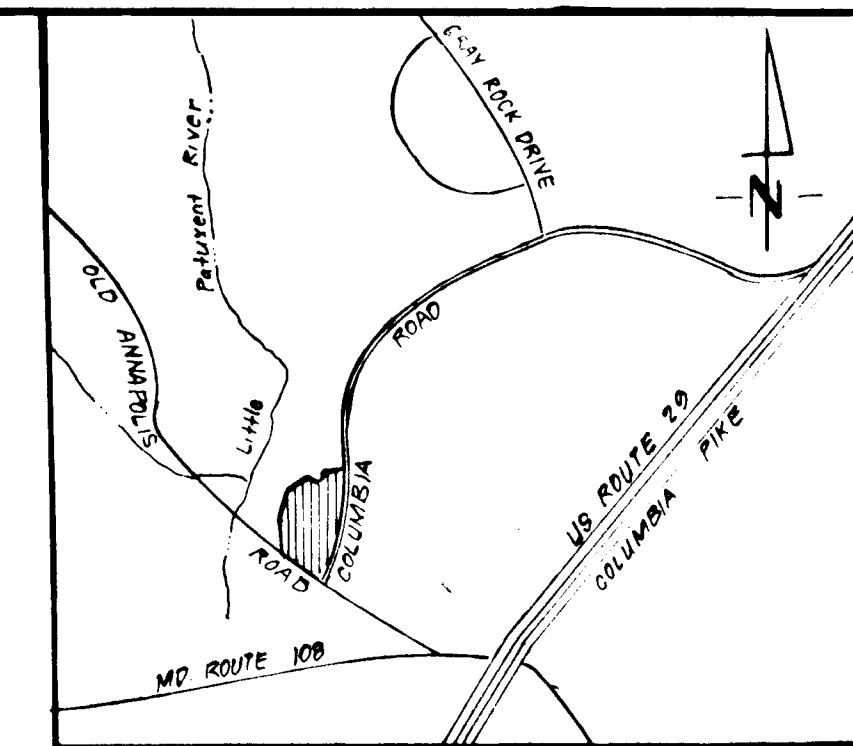
SCALE: As Shown
 DRAWING: 3 OF 5
 JOB NO.: 86-084
 FILE NO.: 86-084-D

DESIGNED: GLB
 DRAWN: KIW
 CHECKED: GLB
 DATE: 2-25-87

FOR: SUMMERHILL LTD. PARTNERSHIP
 c/o The Troutman Co. General Partner
 John F. Troutman, President
 Suite 305, White Lake Village Parkway
 Columbia, Md. 21044

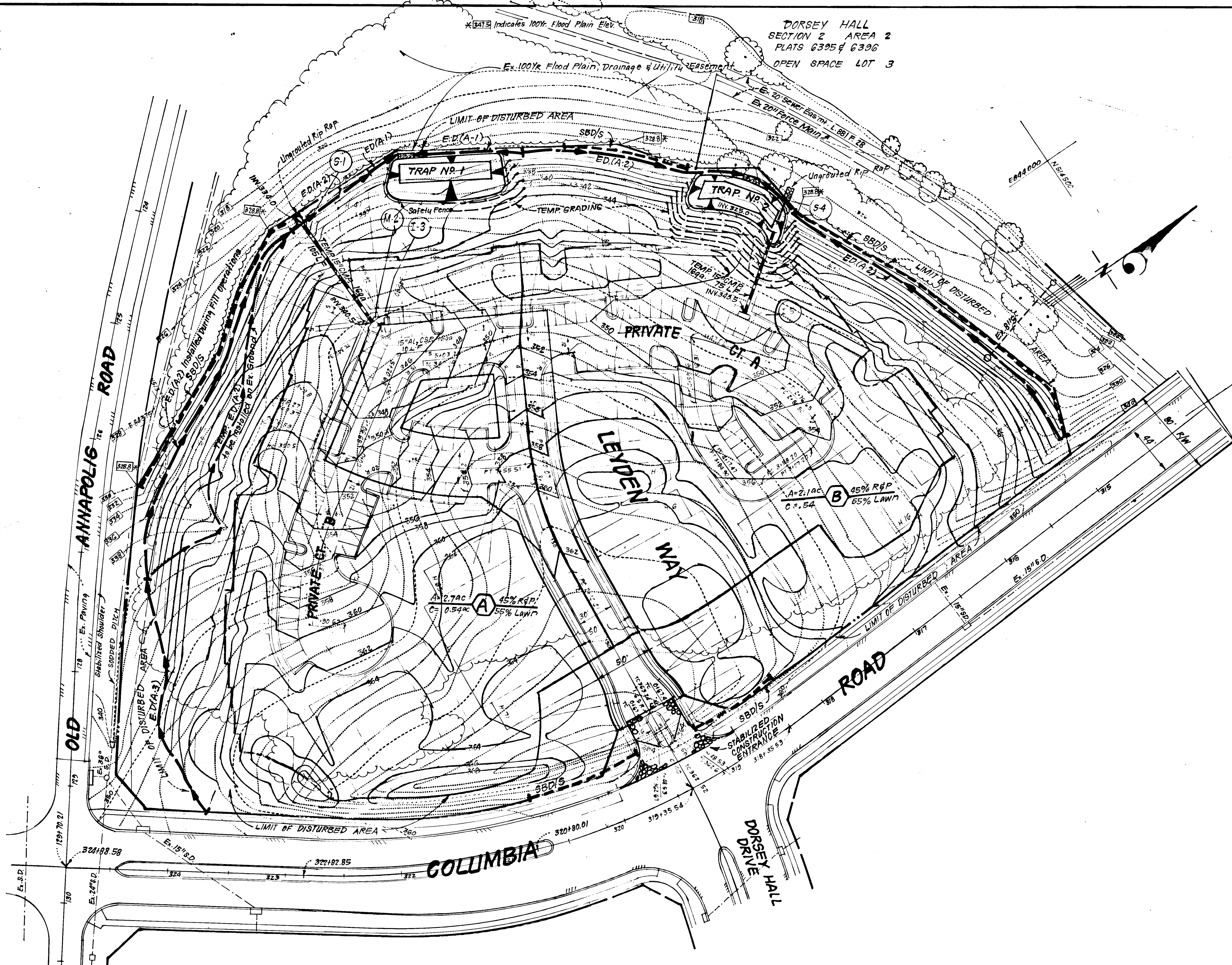
OWNER: The Howard Research & Development Land Company
 10276 Little Parkview Parkway
 Columbia, Md. 21044

F-87-132



VICINITY MAP
SCALE 1" = 2000'

DORSEY HALL
SECTION 2 AREA 2
PLATS 6395 & 6396
OPEN SPACE LOT 3



CONSTRUCTION SEQUENCE:

	No. of Days
1. Obtain Grading Permit.	2
2. Clear & grub for installation of sediment controls.	5
3. Install sediment controls - see plan for installation of temporary earth dike on southwest side of project.	10
4. Clear & grub site.	35
5. Rough grade site; Temporarily grade areas near sediment traps as shown; install earth dike on southwest side of project during fill operation as shown. All other earth dikes to be adjusted as necessary to remain functional during grading operations.	30
6. Install storm drainage, I-5 and I-3 to M-2.	10
7. Install temporary pipes as shown.	5
8. Construct, paving, curb & gutter, sidewalks & utilities.	30
9. Fine grade and stabilize site.	10
10. Upon approval of sediment control inspector, remove sediment & erosion control measures and stabilize.	5
11. Construct remaining storm drainage and restore areas near sediment traps to final grade utilizing SBD's as necessary. All disturbed areas to be immediately stabilized.	2

LEGEND:

1. Contour Interval	2 FT.
2. Existing Contour	---
3. Proposed Contour	---
4. Earth Dike	E.D.(A-1)
5. Straw Bale Dike/Silt Fence	SBD'S

SEDIMENT TRAP TABLE

TRAP NO.	TYPE OF TRAP	DRAINAGE AREA	STORAGE REQUIRED	STORAGE PROVIDED	DEPTH	TOP OF STONE CREST ELEV.	BOTTOM ELEV.	CLEAN OUT ELEV.	BOTTOM DIMENSIONS	L	REMARKS
1	SOST. ST. V.	3.5 AC.	6300 CF	6308 CF	4'	330.0	325.0	327.0	15' X 79'	14'	1:1 Slopes
2	SOST. ST. V.	3.3 AC.	5940 CF	6080 CF	4'	330.0	325.0	327.0	15' X 76'	14'	1:1 Slopes

Reviewed for Howard S.C.D. Name
and meets Technical Requirements
J. Helms 6/16/87 Date
Signature
U.S. Soil Conservation Service

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

Stephen L. Duke 6/16/87 Approved Date

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John S. Troutman March 3, 1987 Signature Date

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 Soil Conservation District.

John S. Clark 2-25-87 Date
G. Nelson Clark

APPROVED DEPARTMENT OF PUBLIC WORKS
James M. Elmer 6-16-87 Date
Chief, Bureau of Engineering

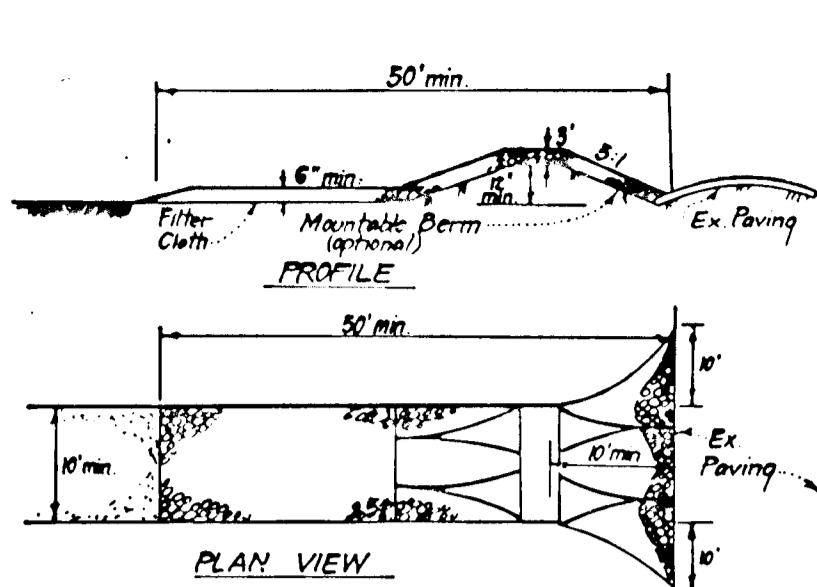
APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING
John W. Muehlenberg 6-16-87 Date
Chief, Vision & Land Development & Zoning Administration

CLARK · FINEFROCK & SACKETT INC.
ENGINEERS · PLANNERS · SURVEYORS
1131 LOCKWOOD DRIVE SILVER SPRING, MD 20904 (301) 593-3400

DESIGNED BY	GLB	SCALE	As Shown
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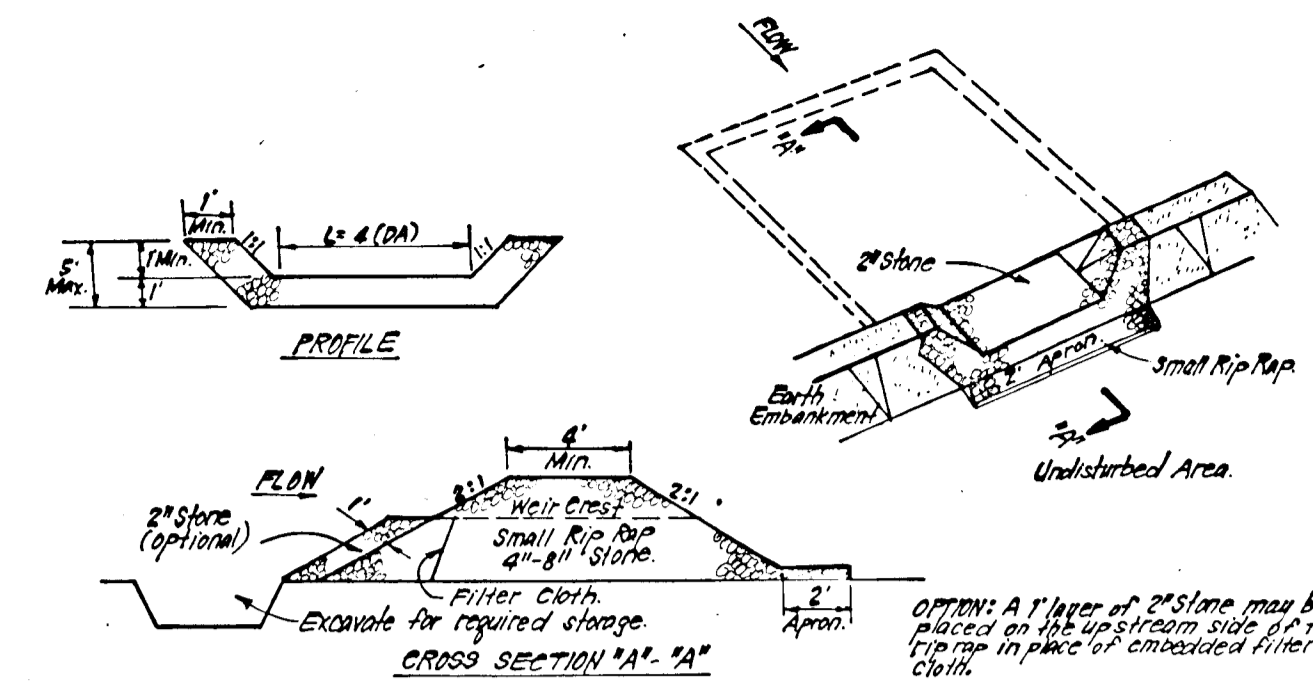
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Columbia, Md. 21044

OWNER: The Howard Research & Development Land Company
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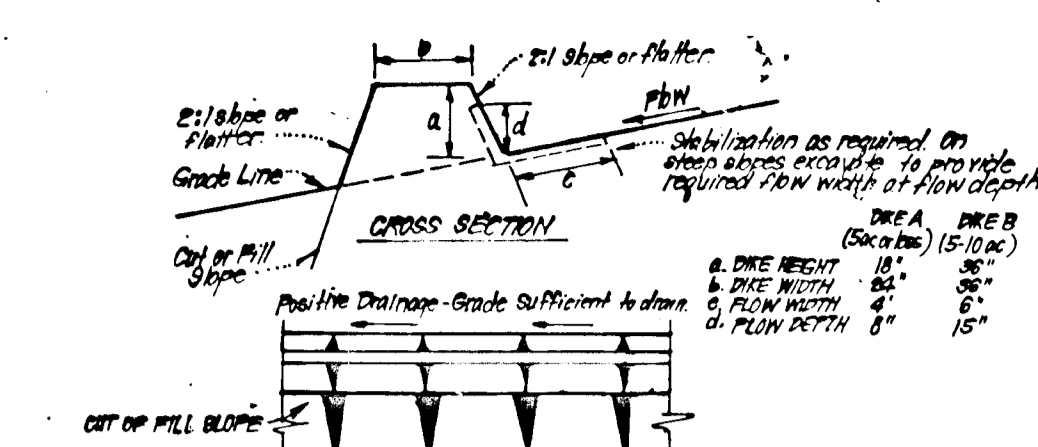
- CONSTRUCTION SPECIFICATIONS:**
1. Stone size - Use 2" stone, or reclaimed or recycled concrete equivalent.
 2. Length - As required, but not less than 50 feet (except on a single residence lot where a 30 foot minimum length would apply).
 3. Thickness - Not less than six (6) inches.
 4. Width - Ten (10) feet minimum, but not less than the full width at points where ingress or egress occurs.
 5. 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.
 6. Surface Water - All surface water flowing or diverted toward construction entrances shall be piped across the entrance. If piping is impractical, a mountable berm with 5-1 slopes will be permitted.
 7. 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 clearance of any impedes used to trap sediment. All sediment applied, dropped, washed or tracked onto public rights-of-way must be removed immediately.
 8. 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.
 9. Periodic inspection and needed maintenance shall be provided after each rain.

STABILIZED CONSTRUCTION ENTRANCE (SCE)
NO SCALE



- CONSTRUCTION SPECIFICATIONS:**
1. Any under embankment shall be cleared, grubbed and stripped of any vegetation and root mat. The soil area shall be compacted.
 2. The fill material for the embankment shall be free of rock and other nearby material, as well as over stones, rocks, engine material or other objectionable material. The embankment shall be compacted by traversing with equipment while it is being constructed.
 3. All soil and fill slopes shall be 2:1 or flatter.
 4. The stone used in the outlet shall be small rip rap 4-8" with 1" thickness of 2" aggregate placed on the up-slope side on the small rip rap or crushed filter cloth in the rip rap.
 5. 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.
 6. The structure shall be inspected after each rain and repairs made as needed.
 7. Construction operations shall be carried out in such a manner that erosion and water pollution is minimized.
 8. 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

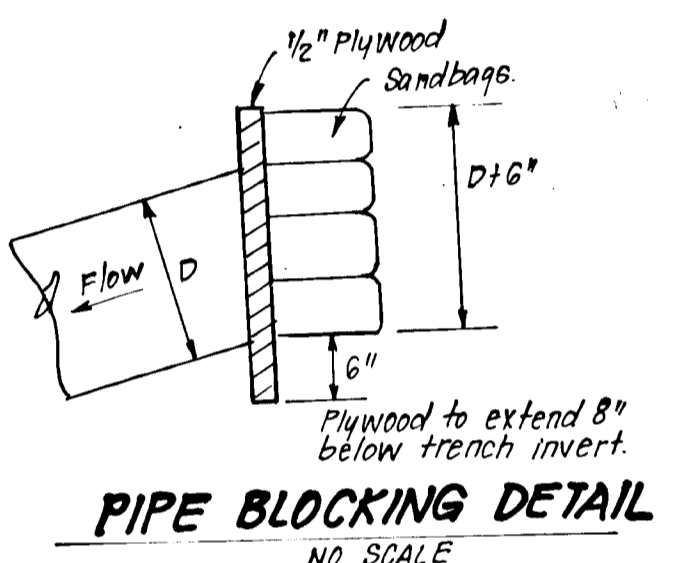


- CONSTRUCTION SPECIFICATIONS:**
1. All dikes shall be constructed by earth-moving equipment.
 2. All dikes shall have positive drainage to an outlet.
 3. Top width may be wider and side slopes may be flatter if desired to facilitate crossing by construction traffic.
 4. Filter cloth should be used as needed to utilize a stabilized soil outlet.
 5. Earth dikes shall have an outlet that discharges with a minimum of erosion. Runoff shall be conveyed to a sediment trapping device such as a sediment trap or sediment basin where either the dike channel or the drainage area above the dike are not adequately stabilized.
 6. Stabilization shall be: (A) in accordance with standard specifications for seed and straw mulch or straw mulch if not in seeding season, (B) flow channel as per chart below.

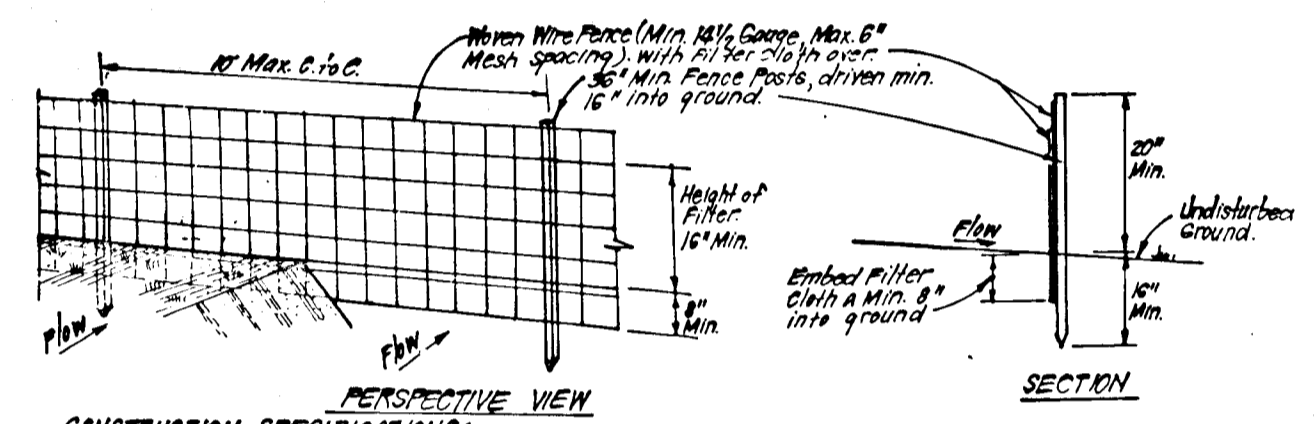
FLOW CHANNEL STABILIZATION

TYPE OF CHANNEL	CHANNEL	DIKE A	DIKE B
1	0.5 - 0.7%	Seed & Straw Mulch	Seed & Straw Mulch
2	0.7 - 1.0%	Seed & Straw Mulch	Seed & Straw Mulch
3	1.0 - 2.0%	Seed & Straw Mulch	Seed & Straw Mulch
4	2.0 - 5.0%	Seed & Straw Mulch	Seed & Straw Mulch

EARTH DIKE DETAIL (E.D.)
NO SCALE

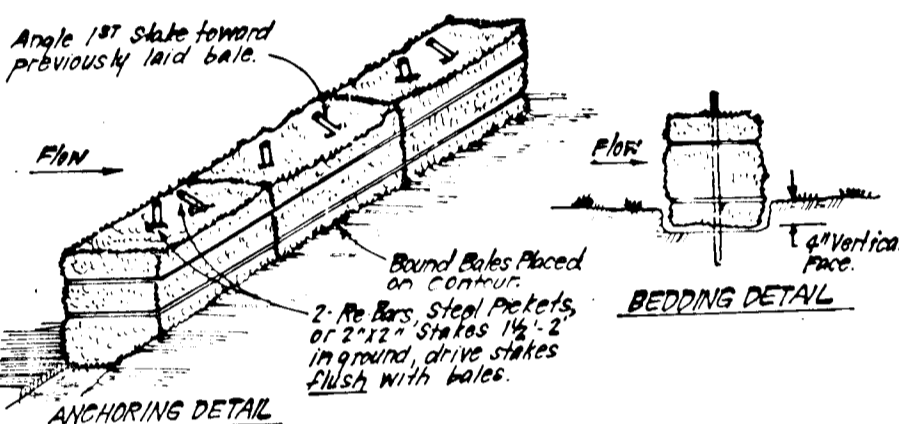


PIPE BLOCKING DETAIL
NO SCALE



- CONSTRUCTION SPECIFICATIONS:**
1. Weave wire fence to be fastened securely to fence posts with wire ties or staples.
 2. Filter Cloth to be fastened securely to weave wire fence with ties spaced every 36" at top and mid section.
 3. When 2 sections of filter cloth adjoin each other they shall be overlapped by 6" and stapled.
 4. Maintenance shall be performed as needed and material removed when bulges develop in Silty Fence.
- POSTS:** Steel either T or U Type or 2" x 4" hardwood
FENCE: Weave Wire, 12" x 6" 6" Mesh Spacing
FILTER CLOTH: Filter Cloth, Miraflex 1000, Sublinka, TIGON or Approved
PREFABRICATED UNIT: Geotex, Envirofence, or approved equal

SILTY FENCE DETAIL (S)
NO SCALE



- CONSTRUCTION SPECIFICATIONS:**
1. Bales shall be placed at the top of a slope or on the contour and in a row with ends tightly abutting the adjacent bales.
 2. Each bale shall be embedded in the soil a min of 4" and placed so the bindings are horizontal.
 3. Bales shall be securely anchored in place by either 2 stakes or re bars driven thru the bale. The 18" stake in each bale shall be driven through the previously laid bale at an angle to force the bales together. Stakes shall be driven flush with the bale.
 4. Inspection shall be frequent and repair replacement shall be made promptly as needed.
 5. Bales shall be removed when they have served their usefulness so as not to block or impede storm flow or drainage.

STRAW BALE DIKE DETAIL (SBD)
NO SCALE

- PERMANENT SEEDING NOTES**
1. A minimum of 24 hours notice must be given to the Howard County Office of Inspection and Permits prior to the start of any construction. (892-2437)
 2. 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.
 3. Following initial soil disturbance or redistribution, 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 as to all other disturbed or graded areas on the project site.
 4. All sediment traps/basins shown must be fenced and warning signs posted around their perimeter in accordance with Vol. 1, Chapter 12, of the HOWARD COUNTY DESIGN MANUAL, Storm Drainage.
 5. All disturbed areas must be stabilized within the time period specified above in accordance with the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for permanent seedings (Sec. 31) sod (Sec. 54), temporary seeding (Sec. 50) and mulching (Sec. 52). Temporary stabilization with dates do not allow for proper germination and establishment of grasses.
 6. All sediment control structures are to remain in place and are to be maintained in operative condition until permission for their removal has been obtained from the Howard County Sediment Control Inspector.
 7. Site Analysis:
Total Area of Site: **8.8** Acres
Area Disturbed: **0.95** Acres
Area to be roofed or paved: **0.95** Acres
Area to be vegetatively stabilized: **5.85** Acres
Total Cut: **35,875** Cu. yds
Total Fill: **7,100** Cu. yds
Off-site waste/borrow area location: **N/A**
 8. Any sediment control practice which is disturbed by grading activity for placement of utilities must be repaired on the same day of disturbance.
 9. Additional sediment control must be provided, if deemed necessary by the Howard County DWM sediment control Inspector.
 10. 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.
 11. If houses are to be constructed on an "A" slope, at random, Single Lot Sediment Control as shown below shall be implemented. **N/A**
 12. All pipes to be blocked at the end of each day (see detail below).
 13. The total amount of straw bale dikes/silt fence equals **875** L.F.

- TEMPORARY SEEDING NOTES**
- Apply to graded or cleared areas not subject to immediate further disturbance where a permanent long-lived vegetative cover is needed.
- Seeded Preparation:** Loosen upper three inches of soil by raking, discing or other acceptable means before seeding.
- Soil Amendments:** In lieu of soil test recommendations, use one of the following schedules:
- 1) 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 square 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 (9 lbs/1000 sq ft).
 - 2) 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 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 seeded areas and make needed repairs, replacements and reseedings.
- Soil Amendments:** Apply 600 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 25 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.
- 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 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 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for rate and methods not covered.

Reviewed for Howard Name S.C.D.
and meets Technical Requirements
J. Halverson Signature 6/16/87 Date
U.S. Soil Conservation Service

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
Stephen L. Huber Signature 6/16/87 Date

DEVELOPER'S/BUILDER'S CERTIFICATE
"I/We certify that all development and construction will be done in conformance with the 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 Erosion and Sediment 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."
John L. Troutman Signature March 2, 1987 Date

ENGINEER'S CERTIFICATE
I hereby certify that this plan for Erosion and Sediment Control represents a professional and workable plan based on my personal knowledge of the site conditions and that it was prepared in conformance with the requirements of the Howard Soil Conservation District.
G. Nelson Clark Signature 2-25-87 Date

APPROVED: DEPARTMENT OF PUBLIC WORKS
James M. ... Signature 6-25-87 Date
Chief, Bureau of Engineering

APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING
John W. ... Signature 6-16-87 Date
Chief, Division of Land Development and Zoning Administration

CLARK · FINEFROCK & SACKETT INC.
ENGINEERS · PLANNERS SURVEYORS
11315 LOCKWOOD DRIVE SILVER SPRING, MD 20904 (301) 593-3400

DESIGNED GLB	ROAD CONSTRUCTION PLANS SEDIMENT & EROSION CONTROL DETAILS DORSEY HALL SECTION 2 AREA 2 2ND ELECTION DISTRICT HOWARD COUNTY, MARYLAND	SCALE As Shown
DRAWN KIW		DRAWING 5 OF 5
CHECKED GLB		JOB NO. 86-084
DATE 2-25-87		FILE NO. 86-084-D

FOR: SUMMERHILL LTD. PARTNERSHIP
60 The Tourman Co., General Partner
John T. Troutman, President
Suite 300, Wildcat Lane Village Green
Columbia, Md. 21046

OWNER: The Howard Research & Development Land Company
10275 Little Chertwood Parkway
Columbia, Md. 21044