

VICINITY MAP SCALE 1" = 2000'

SITE ANALYSIS

ZONING...NEW TOWN FDP 43-A-1
 TOTAL SITE AREA...7.792 ACRES
 338,400 SF
 BUILDING AREA IN SQUARE FEET
 1ST FLOOR 17,280
 2ND FLOOR 17,280
 3RD FLOOR 5,184
 TOTAL FLOOR AREA ... 39,744 SF
 GROSS LEASABLE AREA... 32,000 SF
 EMPLOYEES ON SITE 71
 PARKING SPACES... 1 PER 250 SF OF GLA
 REQUIRED 128
 PROVIDED 128 INCLUDING SPACES FOR H.C.
 REQUIRED FOR H.C. 5
 PROVIDED FOR H.C. 5

PROPOSED USE OF BUILDING - OFFICE BUILDING
 BUILDING COVERAGE 17,280 SQUARE FEET = 5.10%
 PAVING COVERAGE 338,400 SQUARE FEET = 22.13%

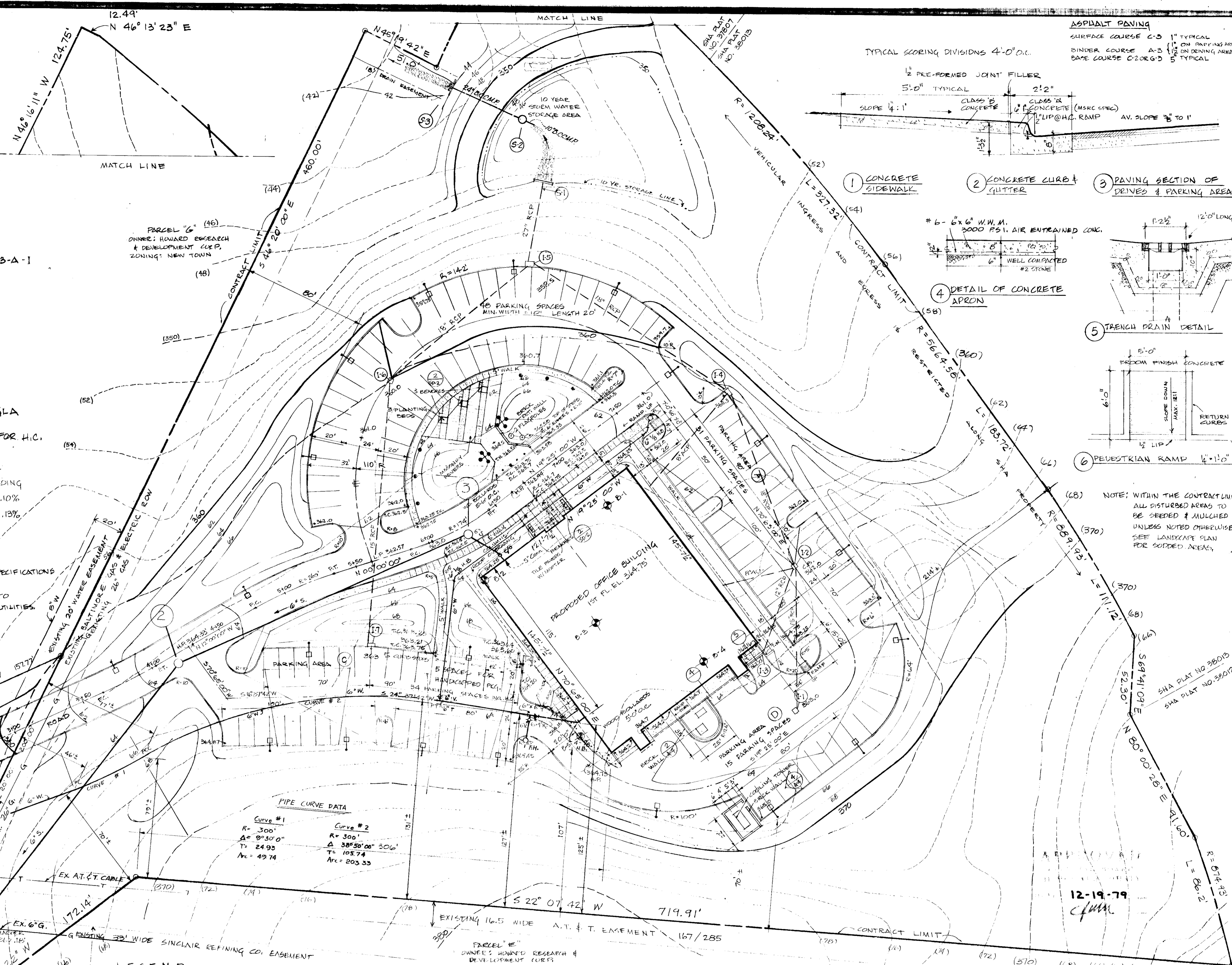
ALL PROVISIONS OF FDP 43-A-1
 "SITE DESIGN CRITERIA" SHALL BE COMPLIED WITH.

ALL CONSTRUCTION TO BE IN ACCORDANCE WITH SPECIFICATIONS
 OF HOWARD COUNTY DEPT. OF PUBLIC WORKS.

ALL CONSTRUCTION OVER UTILITY EXEMPTIONS TO
 MEET THE REQUIREMENTS OF THE RESPECTIVE UTILITIES.

B.C.C. CASE 412 RES. APP. 8/10/75
 AMEND B.C.C. CASE 507 RES. APP. 11/4/76
 " B.C.C. CASE 606 RES. APP. 11/27/72
 " B.C.C. CASE 644 RES. APP. 1/7/74
 HOWARD CO. PLANNING BOARD

EASEMENT FOR
 INGRESS & EGRESS
 TO PARCEL F
 (EASEMENT SHADDED)
 #971-714



PIPE CURVE DATA

Curve #1 R= 300' Δ= 99°30'0" T= 24.95 Arc= 49.74	Curve #2 R= 300' Δ= 38°50'00" 306' T= 105.74 Arc= 202.33
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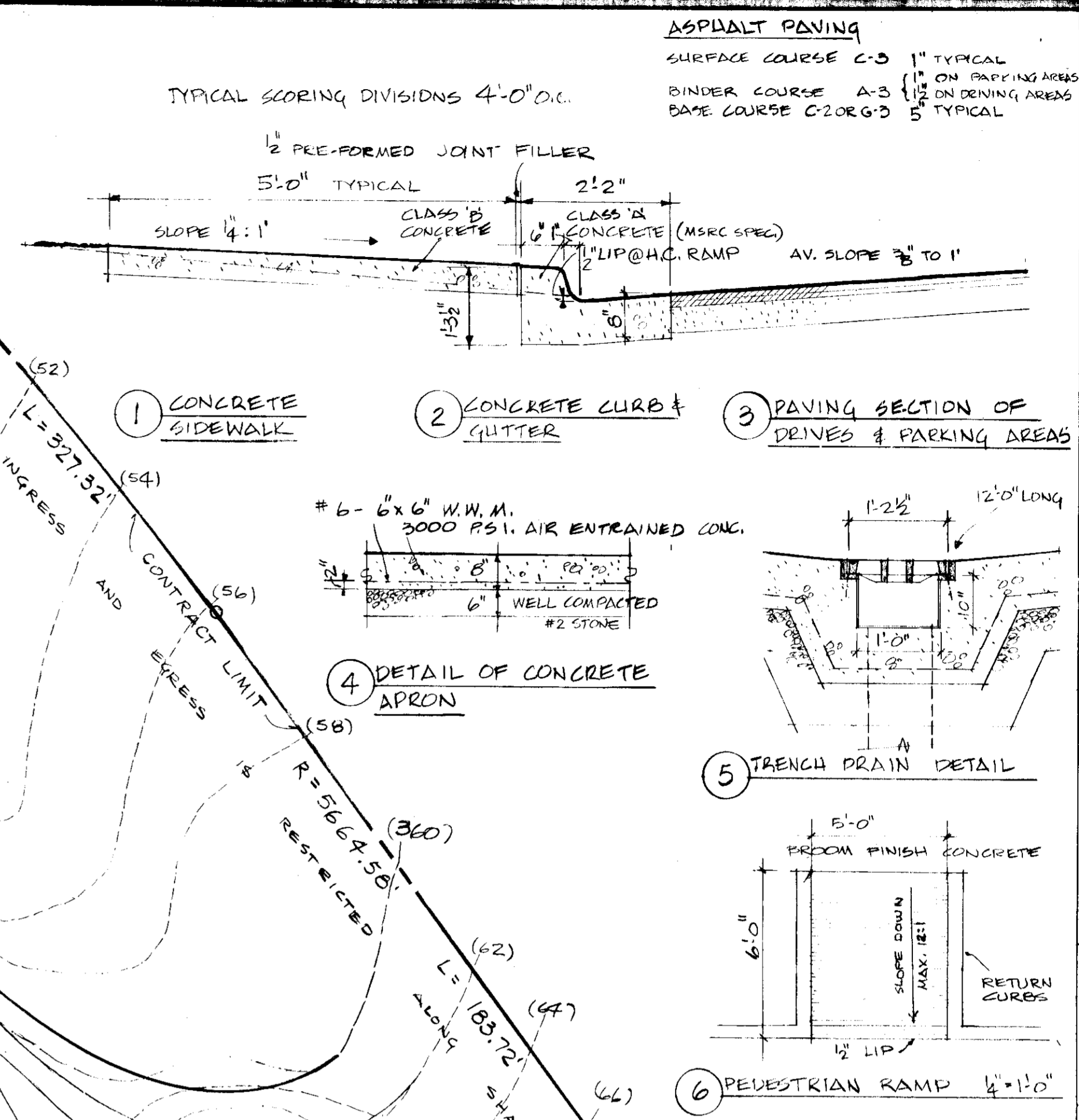
LEGEND

- TEST HOLE BORINGS B-1
- EXISTING CONTOURS (360)
- PROPOSED CONTOURS 360
- CONCRETE PAVING
- MASONRY PAVERS OVER SAND & CRUSHED STONE SUBGRADE
- SW. INLETS SEE SHIT
- EXTERIOR LIGHTS
- TYPE A
- TYPE B
- TYPE C
- TYPE D

APPROVED: HOWARD CO. DEPT. OF PUBLIC WORKS
 FOR PUBLIC WATER, PUBLIC SEWERAGE AND
 STORM DRAINAGE AND ROADS.
 [Signature]
 CHIEF, BUREAU OF ENGINEERING
 7-8-80
 DATE

APPROVED: HOWARD CO. HEALTH DEPT.
 FOR PUBLIC WATER AND PUBLIC
 SEWERAGE SYSTEMS.
 [Signature]
 COUNTY HEALTH OFFICER
 2-14-80
 DATE

APPROVED: HOWARD CO. OFFICE OF PLANNING & ZONING
 [Signature]
 PLANNING DIRECTOR
 [Signature]
 CHIEF, DIV. OF LAND DEVELOPMENT
 DATE



NOTE: WITHIN THE CONTRACT LIMIT,
 ALL DISTURBED AREAS TO
 BE SEEDED & MULCHED
 UNLESS NOTED OTHERWISE.
 SEE LANDSCAPE PLAN
 FOR SODDED AREAS.

ARCHITECT: RONALD S. SENSEMAN FAIA
 7676 NEW JAMESVILLE AVE. HANLEY PARK MD. 20783
 STRUCTURAL: SHAWDON KENNEDY & ASSOC. CIVIL ENGINEERS, 1000 W. GREENGATE RD. #200
 MECHANICAL: SHEPHERD & PROFFER, 1111 SPRING STREET, S.W. WASHINGTON, D.C. 20037
 ELECTRICAL: HOWARD BROWN ASSOC., 1000 W. GREENGATE RD. #200
 CIVIL ENGINEER: HOWARD BROWN ASSOC., 1000 W. GREENGATE RD. #200

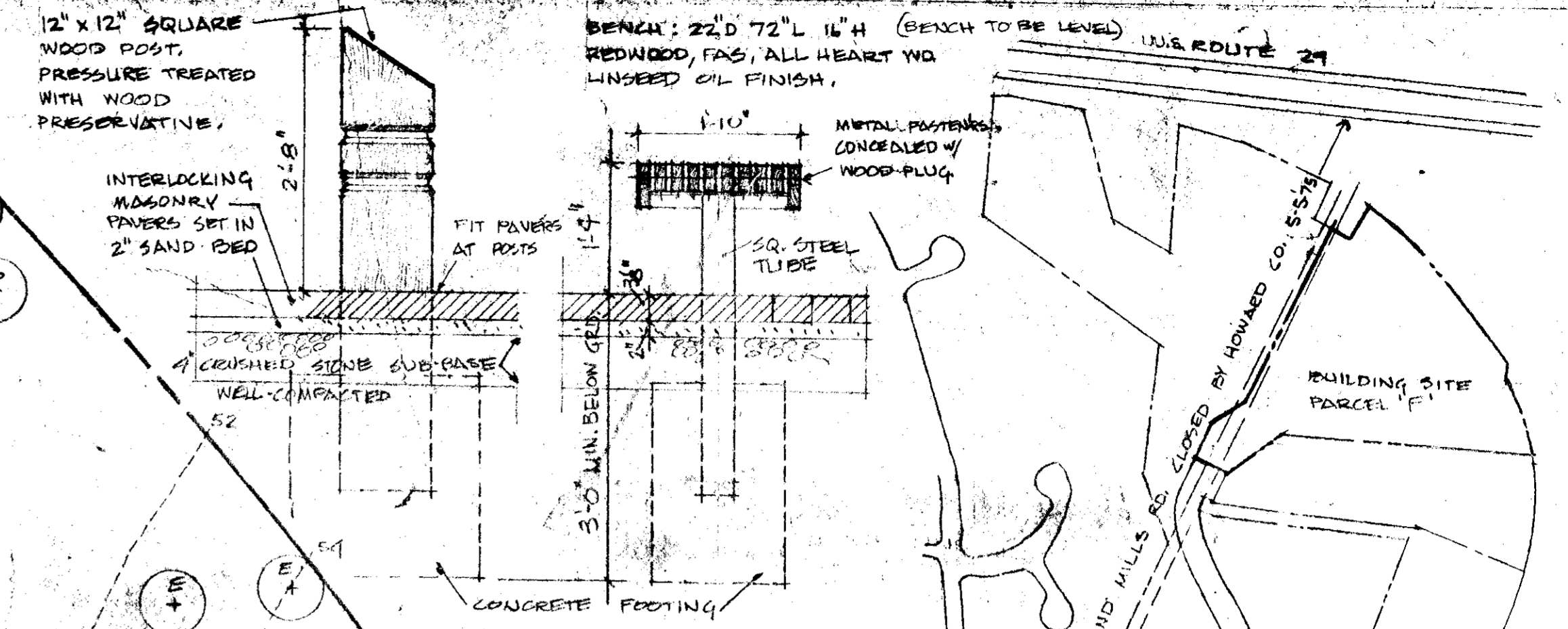
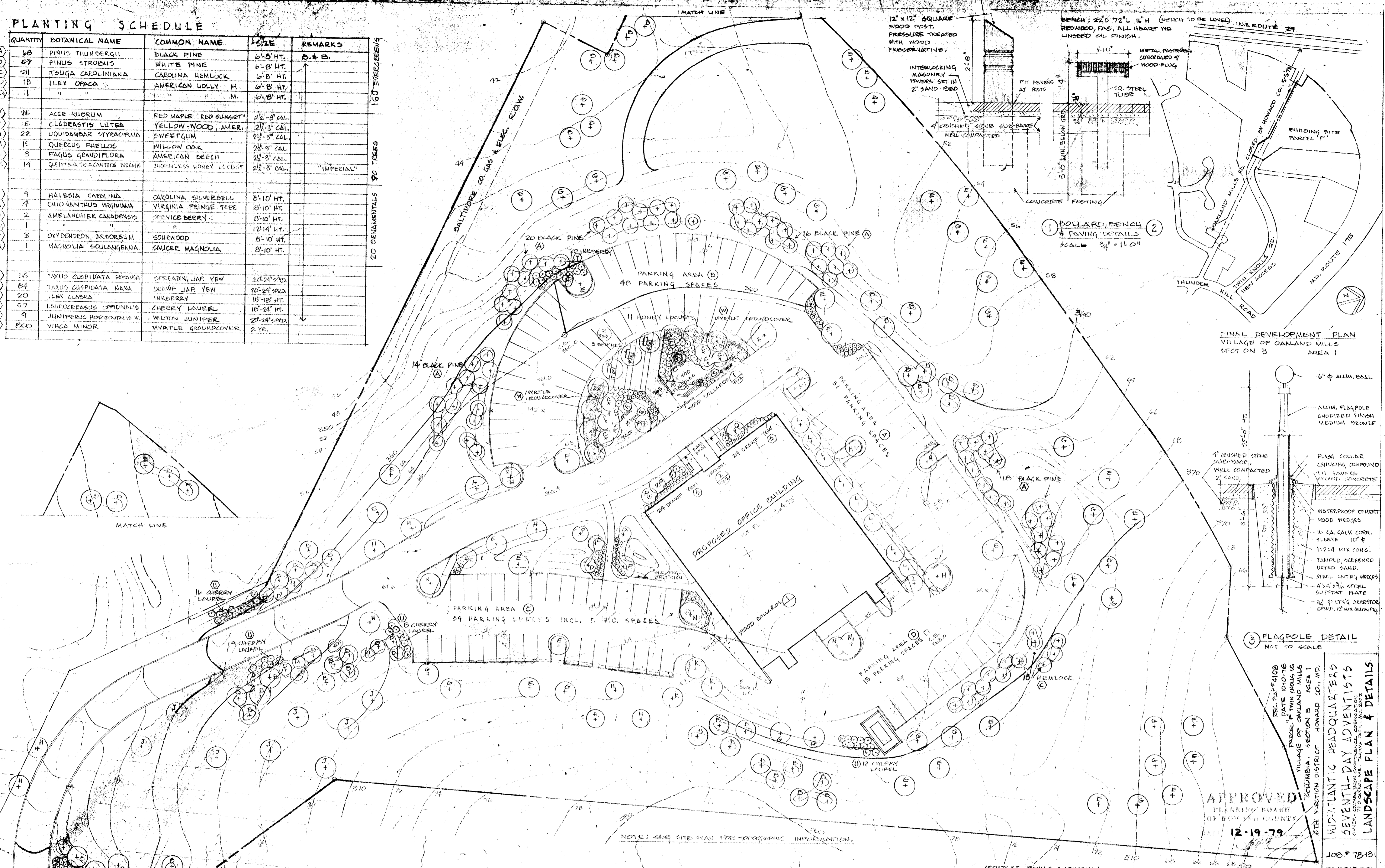
RECORDED: 8/14/75 DATE 10-10-75
 PARCEL 5, TWIN KNOLLS SOUTH
 COLUMBIA, VILLAGE OF GALLAND HILLS
 SECTION 3 AREA 1
 6TH ELECTION DISTRICT, HOWARD CO., MD.
 SITE DEVELOPMENT PLAN & UTILITY PLAN SCALE 1" = 50'

JOB # 78-13
 DATE: 7-5-79
 8-21-79

PLANTING SCHEDULE

QUANTITY	BOTANICAL NAME	COMMON NAME	SIZE	REMARKS
68	PINUS THUNBERGII	BLACK PINE	2'-5" HT.	D. & B.
67	PINUS STROBUS	WHITE PINE	6'-8" HT.	
23	TSUGA CAROLINIANA	CAROLINA HEMLOCK	6'-8" HT.	
18	ILEX OPACA	AMERICAN HOLLY	6'-8" HT.	
1	"	"	"	
26	ACER RUBRUM	RED MAPLE "RED SUNSET"	2 1/2" - 3" CAL.	
16	CLADASTIS LUTEA	YELLOW-WOOD, AMER.	2 1/2" - 3" CAL.	
22	LIQUIDAMBAR SYRIACIFLUA	SWEETGUM	2 1/2" - 3" CAL.	
15	QUERCUS PHELLOS	WILLOW OAK	2 1/2" - 3" CAL.	
8	FAGUS GRANDIFLORA	AMERICAN BEECH	2 1/2" - 3" CAL.	
14	QUERUS TETRA-CANTHUS INEENS	THORNLESS HONEY LOCUST	2 1/2" - 3" CAL.	"IMPERIAL"
9	HALESIA CAROLINA	CAROLINA SILVERBELL	8'-10" HT.	
4	CHIONANTHUS VIRGINIANA	VIRGINIA FRINGE TREE	8'-10" HT.	
2	AMELANCHIER CANADENSIS	SERVICE BERRY	8'-10" HT.	
1	"	"	12'-14" HT.	
3	OXYDENDEON ARDORUM	SOHNRWOOD	8'-10" HT.	
1	MAGNOLIA SOULANGEANA	SAUCER MAGNOLIA	8'-10" HT.	
16	TAXUS CUSPIDATA EXPANSA	SPREADING JAP. YEW	2'-0" x 2'-0"	
20	TAXUS CUSPIDATA NANA	DWARF JAP. YEW	2'-0" x 2'-0"	
57	ILEX GLABRA	INKBERRY	15'-18" HT.	
9	LAIROCARPUS OFFICINALIS	CHERRY LAUREL	15'-24" HT.	
200	JUNIPERUS HORIZONTALIS V. VINCIA MINOR	WILTON JUNIPER	2'-24" SPED.	
		MYRTLE GROUNDCOVER	2 YR.	

160 DECIDUOUS TREES
90 TREES
20 SEMI-PERENNIALS



FINAL DEVELOPMENT PLAN
VILLAGE OF OAKLAND MILLS
SECTION 3
AREA 1

FLAGPOLE DETAIL
NOT TO SCALE

APPROVED
PLANNING BOARD
OF HOWARD COUNTY
12-19-79

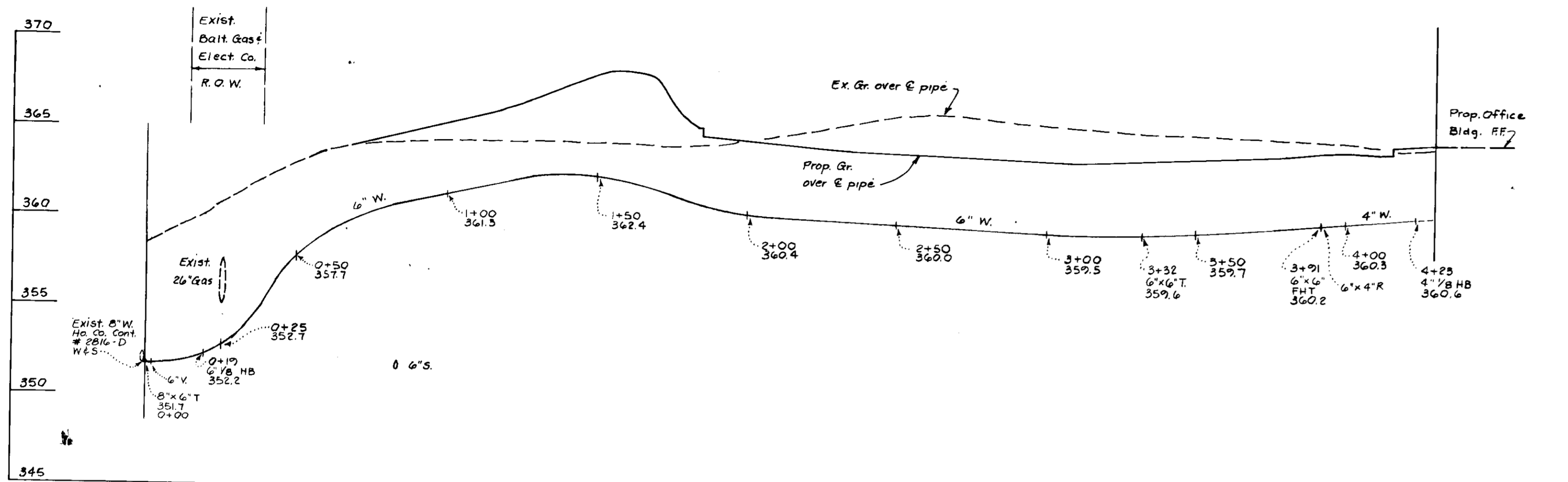
REC. PLAN # 1010-78
DATE 10-10-78
PARCEL # 1010-78
VILLAGE OF OAKLAND MILLS
SECTION 3
AREA 1
STR. SECTION DISTRICT HOWARD CO., MD.

JOB # 78-18
DATE: 7-5-79

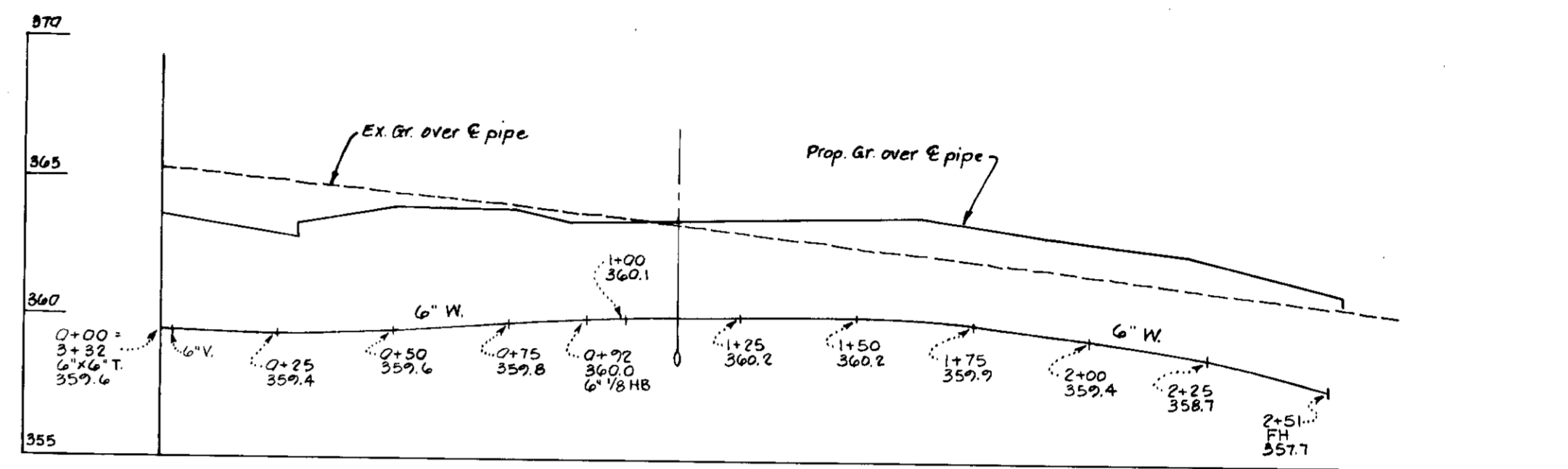
ARCHITECT - RONALD S. SENGEMAN F.A.I.A., 7676 NEW HAMPSHIRE AVE., LANGLEY PARK, MD. 20718

APPROVED: HOWARD CO. DEPT. OF PUBLIC WORKS FOR PUBLIC WATER, PUBLIC SEWERAGE AND STORM DRAINAGE AND ROADS. DIRECTOR DATE: 2-11-80	APPROVED: HOWARD CO. HEALTH DEPT. FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS. CHIEF HEALTH OFFICER DATE: 2-14-80	APPROVED: HOWARD CO. OFFICE OF PLANNING & ZONING PLANNING DIRECTOR DATE: 2-14-80
CHIEF BUREAU OF ENGINEERING DATE:	CHIEF DIV. OF LAND DEVELOPMENT DATE:	





PROFILE 6" WATER
Scale: Horiz. 1" = 30'
Vert. 1" = 5'



PROFILE 6" WATER
Scale: Horiz. 1" = 30'
Vert. 1" = 5'

APPROVED: Ho. Co. Office of Planning and Zoning
Date: _____
Planning Director: _____
Date: _____
CHIEF, Div. of Land Development: _____
Date: _____
APPROVED: Howard County Office of Planning and Zoning
Date: 2-11-80
Planning Director: _____
Date: _____
CHIEF, Div. of Land Development: _____
Date: _____
HOWARD COUNTY DEPT. OF PUBLIC WORKS
Approved: For Public Water, Public Sewerage, Storm Drainage Systems and Public Roads.
Date: 2-11-80
Director: _____
Date: 2-8-80
Chief, Bureau of Engineering: _____
Date: _____

GENERAL NOTES:

1. ALL WATER AND SEWER TO BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST EDITION OF THE GENERAL SPECIFICATIONS AND PLUMBING REGULATIONS OF THE HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS.
2. NO CONSTRUCTION SHALL COMMENCE UNTIL THE PROPER PERMITS HAVE BEEN OBTAINED.
3. CONTRACTOR TO DIG TEST PITS BY HAND AT ALL UTILITY CROSSINGS WELL IN ADVANCE OF TRENCHING. EXTREME CARE MUST BE EXERCISED WHILE WORKING IN THE VICINITY OF THE GAS MAINS AND A.T.&T. CABLE SO THAT THERE WILL BE NO DAMAGES TO THEIR SERVICES. THE CONTRACTOR SHALL NOTIFY THE FOLLOWING, PRIOR TO START OF CONSTRUCTION OF WATER AND SEWER:
 - A.T.&T. - 922-5330
 - COLONIAL PIPELINE CO. - 795-1370
 - BALT. GAS & ELECT. - 539-8000 ext. 67
4. ALL WATER MAIN SHALL BE CONSTRUCTED WITH A MINIMUM OF 35' OF COVER.
5. ALL 6" WATER MAIN TO BE DUCTILE IRON PIPE CL 51 WITH CAST IRON FITTINGS, PRESSURE RATING CLASS 250. ALL WATER MAIN MATERIAL TO BE COPPER TYPE K.
6. ALL 6" SEWER PIPE TO BE A.C.P. CLASS 2400, V.C.P.X., C.S.P.X. OR CAST IRON SOIL PIPE.
7. ALL WATER AND SEWER CONNECTIONS TO BE MADE BY THE "ON-SITE" CONTRACTOR AND TO TERMINATE 5' OUTSIDE OF THE FOUNDATION WALL PLUMBER OR "ON-SITE" CONTRACTOR TO COMPLETE THE CONNECTIONS AT THE DIRECTION OF THE GENERAL CONTRACTOR.
8. FH TEE TO BE BLOCKED WITH CONCRETE, SEE STD. DH W-7.
9. 1/8 HB TO BE BLOCKED WITH CONCRETE, SEE STD. DH W-8.
10. FIRE HYDRANT TO BE BLOCKED WITH CONCRETE, SEE STD. DH W-4B.

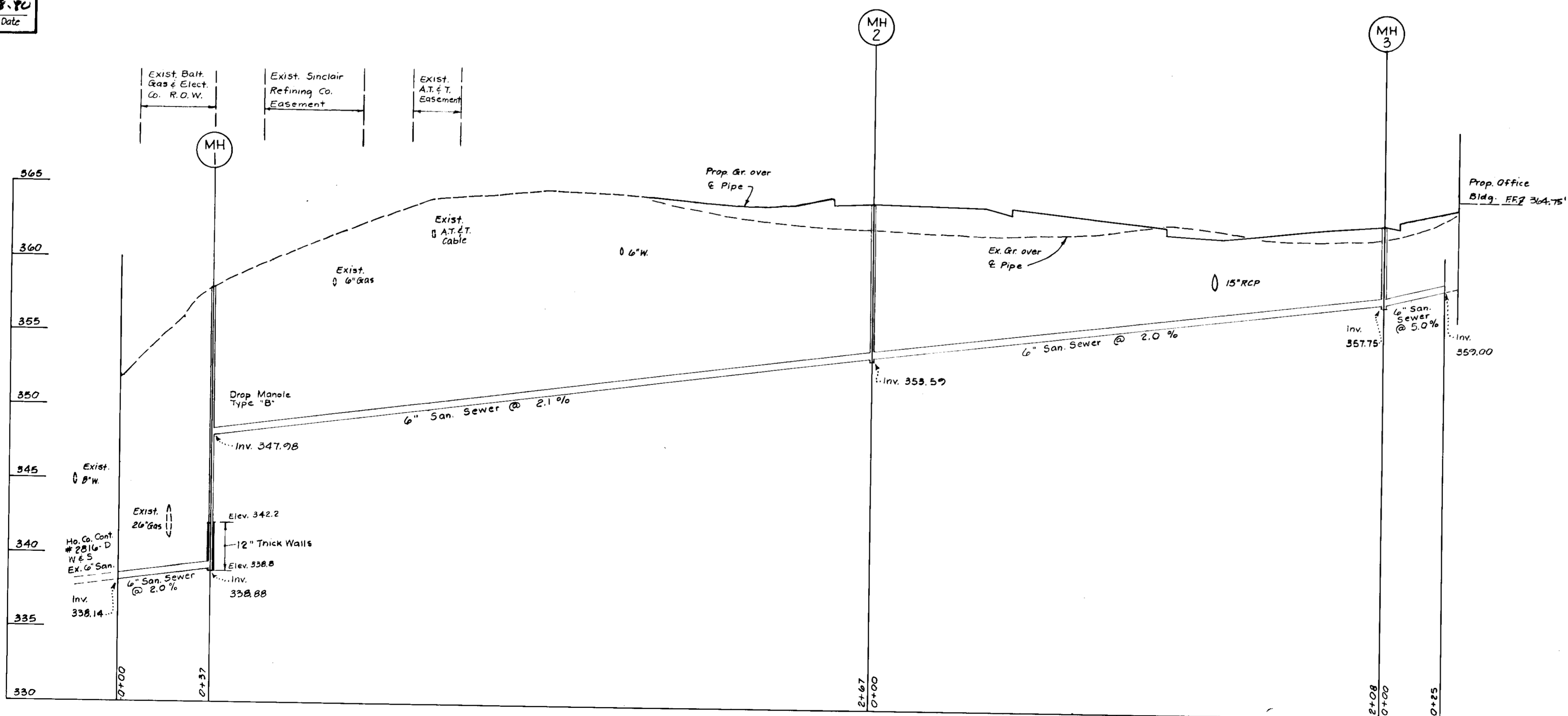
APPROVED
PLANNING BOARD
OF HOWARD COUNTY
DATE: 12-19-79
[Signature]



H.E. Vandendahl
6-27-79

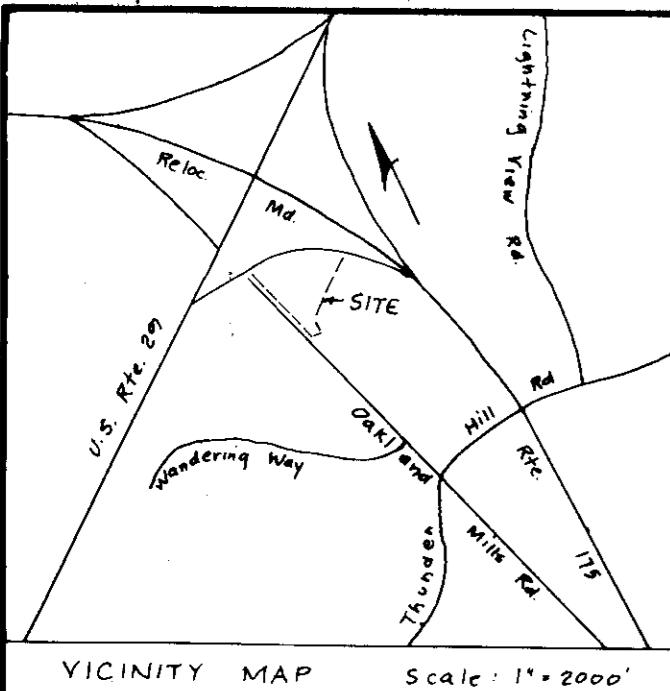
ARCHITECT: RONALD S. SENSEMAN, FAIA
7676 New Hampshire Ave.
Langley Park, Md. 20783
OWNER: COLUMBIA UNION CONFERENCE CORPORATION
7710 CARROLLANE, TAKOMA PARK, MD. 20912

CONTACT "MISS UTILITY"
48 HOURS BEFORE START OF
CONSTRUCTION. 599-0100



PROFILE 6" SAN. SEWER
Scale: Horiz. 1" = 30'
Vert. 1" = 5'

RICHARD BRONNE ASSOCIATES PROFESSIONAL DESIGN & PLANNING CONSULTANTS WILDE LAKE VILLAGE GREEN SUITE 207 COLUMBIA, MARYLAND 21044 301/730-7950 596-3524	COLUMBIA UNION CONFERENCE BUILDING WATER & SEWER PROFILES PARCEL F, TWIN KNOLLS SOUTH COLUMBIA, VILLAGE OF OAKLAND MILLS SECTION 3 AREA 1 6TH ELECTION DISTRICT, HOWARD CO., MD.	SCALE: AS SHOWN	
		DRAWN MK	CHECKED
301/730-7950 596-3524		PROJ. NO. 3	DATE: 2-8-80
		SHEET B	OF B



BY THE DEVELOPER:
 "I certify that all development and/or construction will be done according to this plan of Development and for Erosion and Sediment Control, and also authorize periodic on site inspection by the Ho. Co. S.C.D. or other authorized agents as are deemed necessary. Deviation from this plan will not be made unless authorized by Ho. Co. S.C.D."

Ronald S. Senseman 7-6-79
 signature date

BY THE ENGINEER:
 "I certify that this plan of Erosion and Sediment Control represents a practical and workable plan based on my personal knowledge of the site conditions, and that it is prepared in accordance with the requirements of the Ho. Co. S.C.D."

Harlan E. Venemund 6/27/79
 signature date

APPROVED: For Soil Erosion and Sediment Control, Howard Soil Conservation District.

Richard J. Zick 2-8-80
 Ho. S.C.D. Date

APPROVED: Howard Co. Health Dept. for Public Water and Public Sewerage Systems.

Harlan E. Venemund 2-6-80
 Ho. Co. Health Dept. Date

Reviewed for Howard S.C.D. and meets technical requirements.

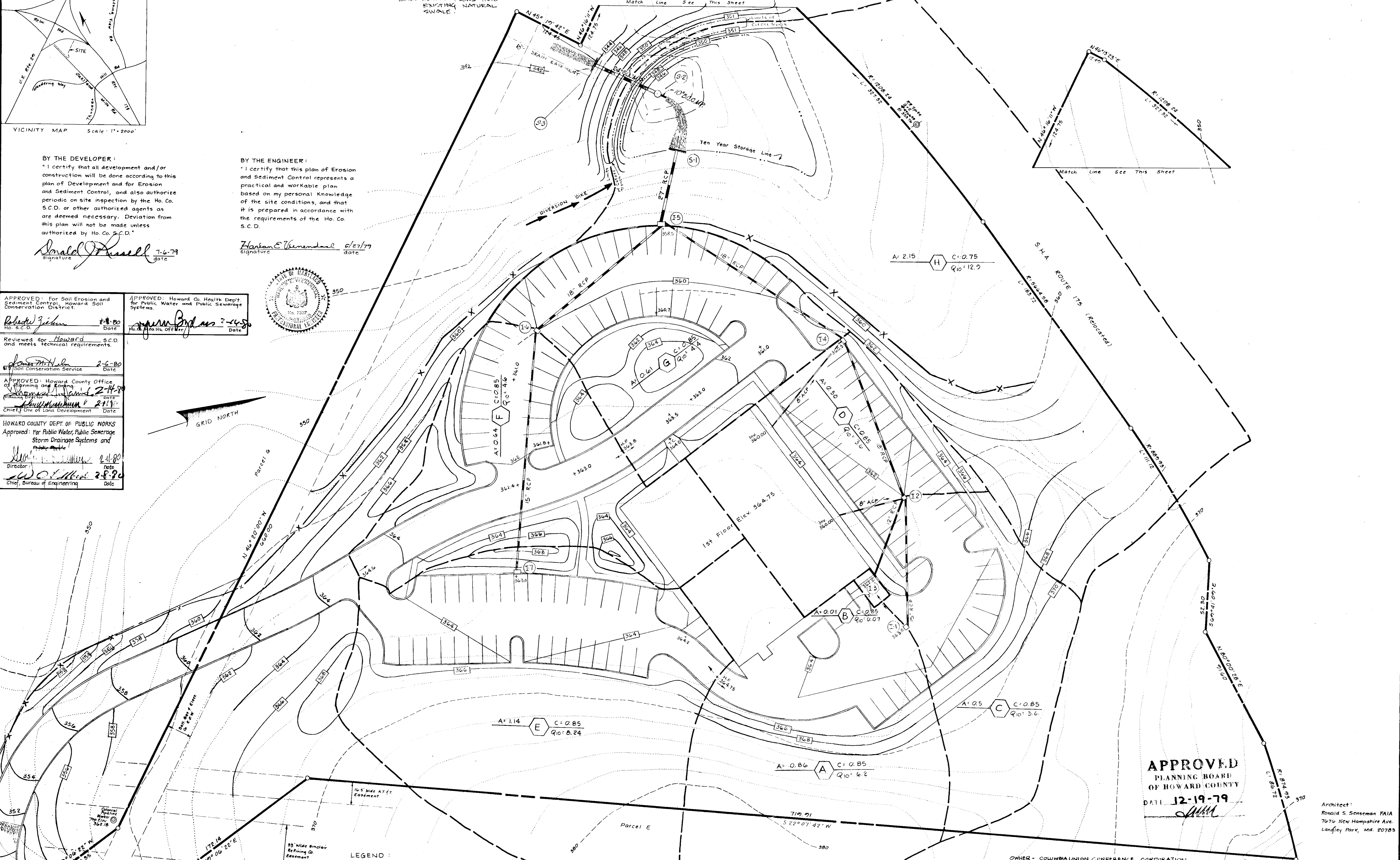
John D. Hill 2-6-80
 Soil Conservation Service Date

APPROVED: Howard County Office of Planning and Zoning
Harlan E. Venemund 2-11-80
 Chief, Div. of Land Development Date

HOWARD COUNTY DEPT. OF PUBLIC WORKS
 Approved: For Public Water, Public Sewerage Storm Drainage Systems and Public Parks

Harlan E. Venemund 2-11-80
 Director Date

Harlan E. Venemund 2-8-80
 Chief, Bureau of Engineering Date



APPROVED
 PLANNING BOARD
 OF HOWARD COUNTY
 DATE 12-19-79
Harlan E. Venemund

Architect:
 Ronald S. Senseman FAIA
 7070 New Hampshire Ave.
 Landley Park, Md. 20785

- LEGEND:
- 370 --- Exist Contour
 - 370 --- Prop. Contour
 - --- Drainage Area Boundary
 - --- Prop. Storm Drain pipe
 - X- Silt Fence
 - > Diversion DiKe
 - --- Limits of Cutoff Trench

no.	description	date
1	Entrance alignment	6/19/79

prepared by
rbra richard browne associates
 professional design & planning consultants
 wilde lake village green, suite 207
 COLUMBIA, MARYLAND 21044
 301/730-7950 596-3524

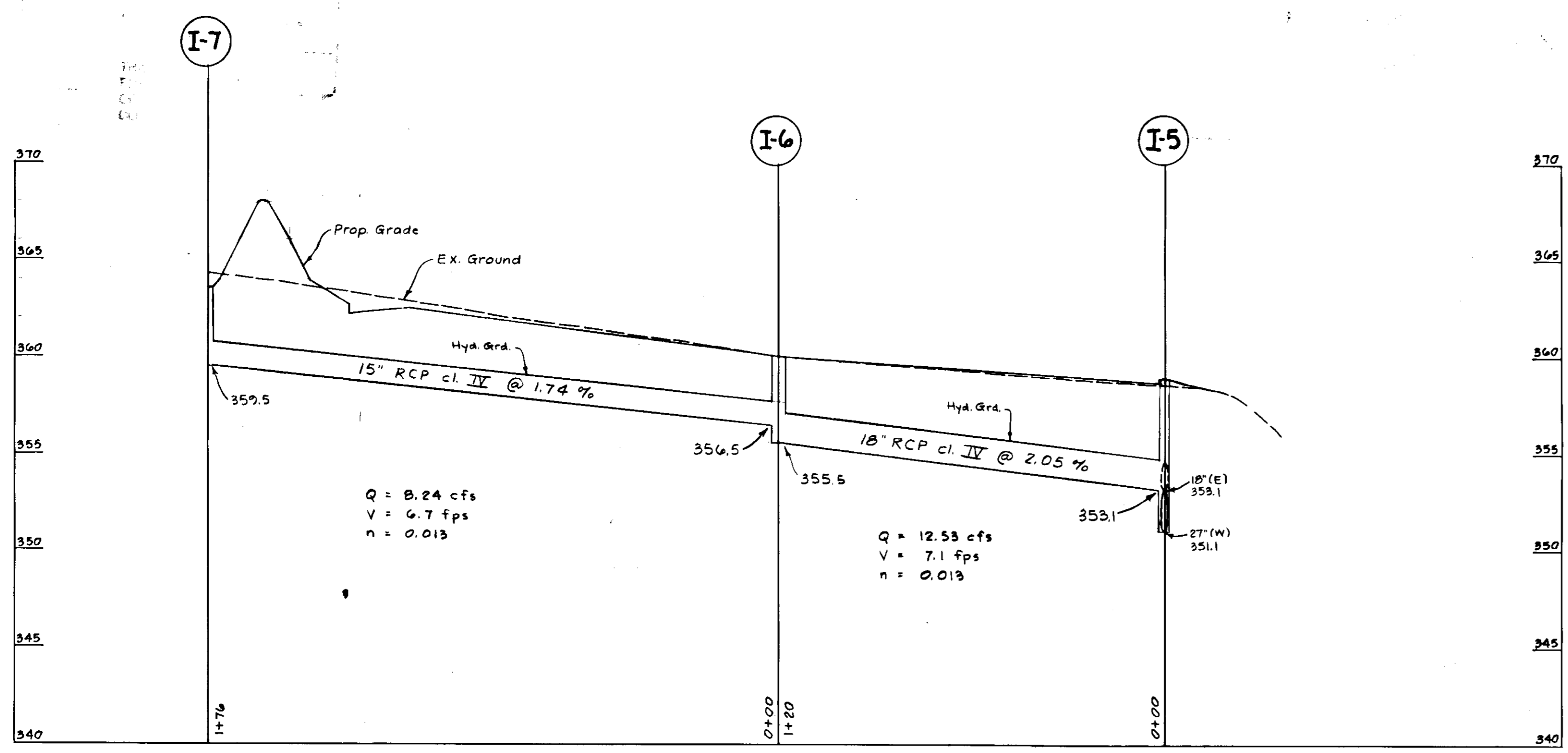
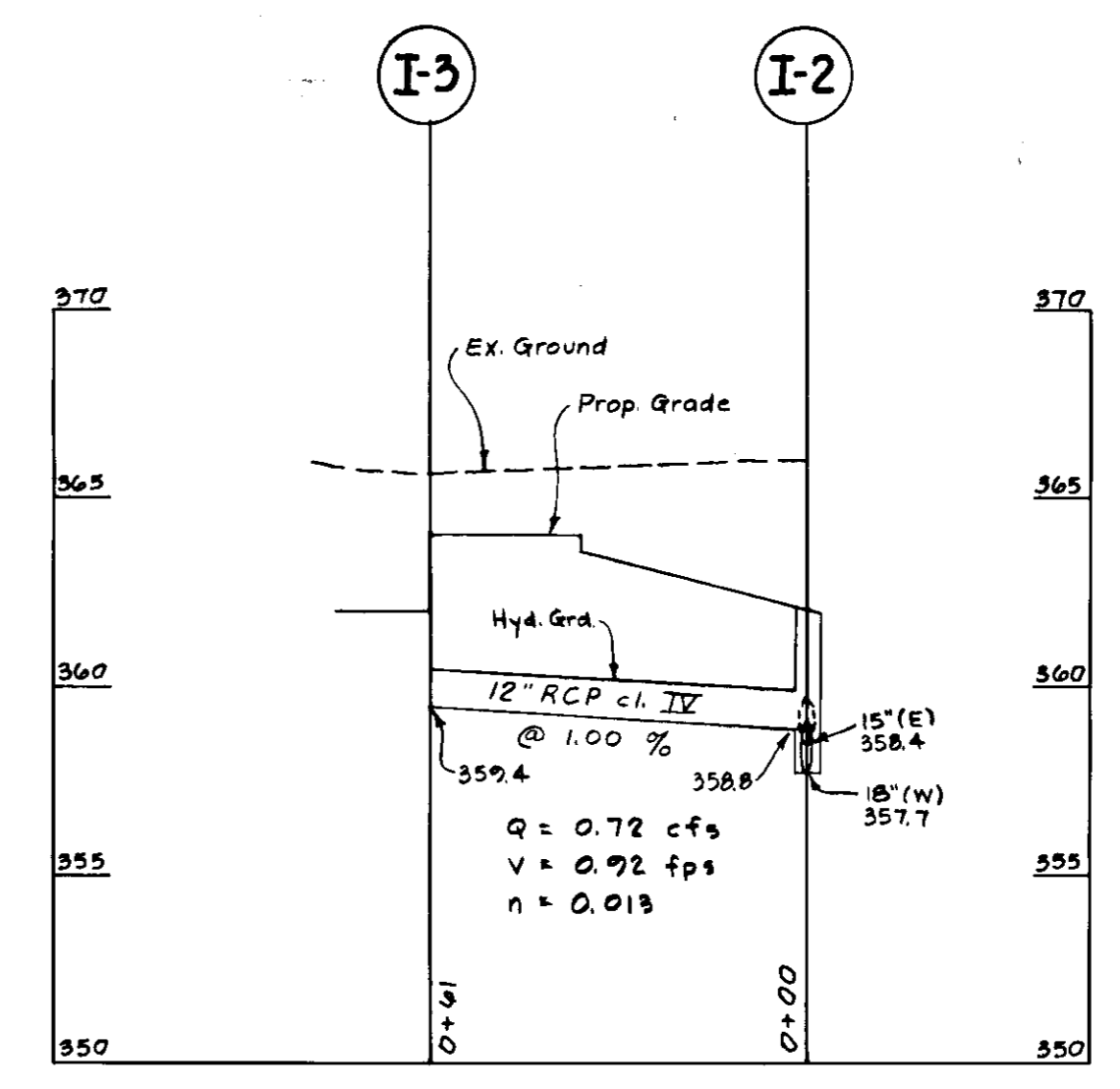
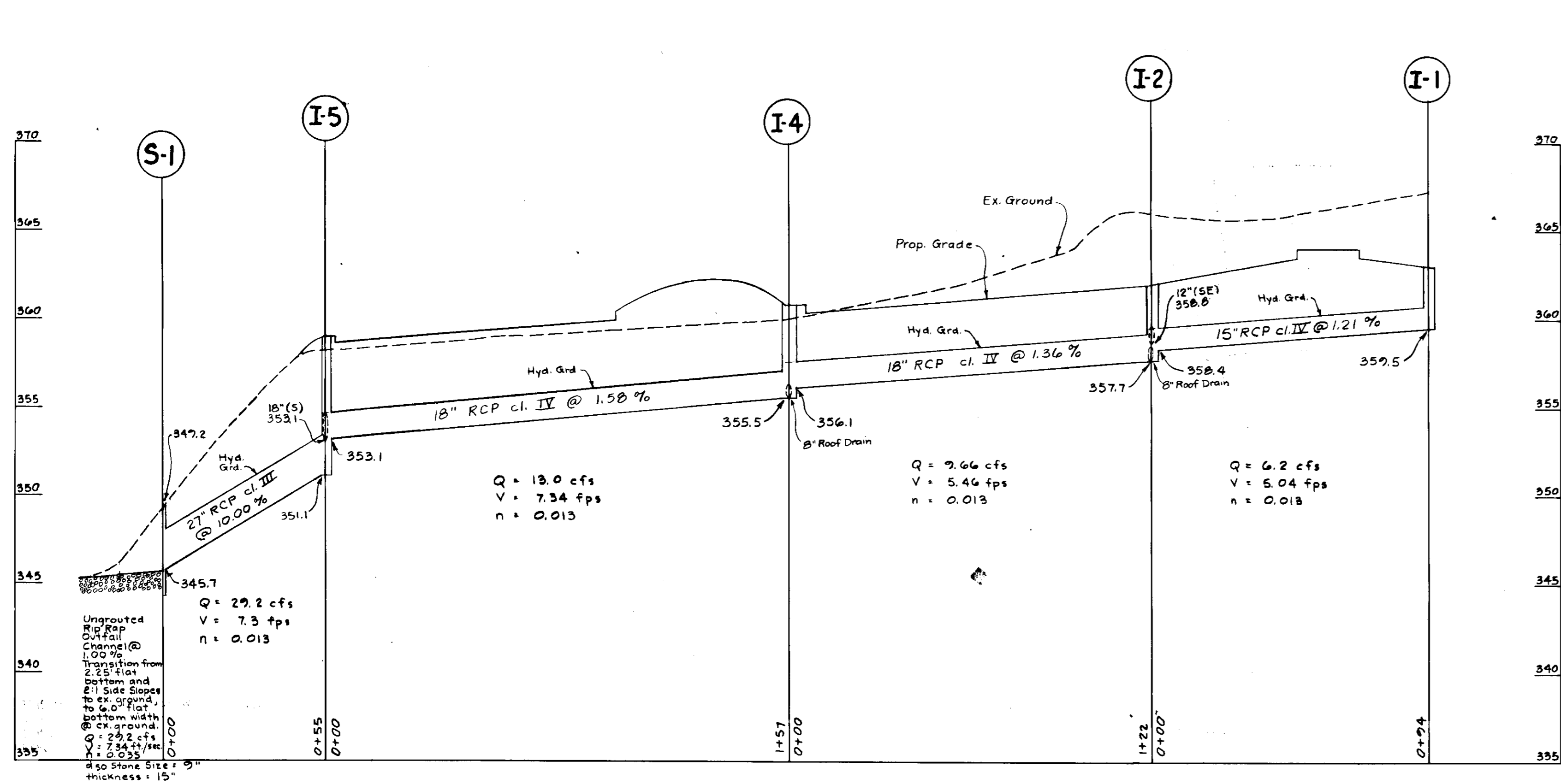
OWNER - COLUMBIA UNION CONFERENCE CORPORATION
 7710 CARROLL AVE. TAKOMA PARK, MD. 20912

COLUMBIA UNION CONFERENCE BUILDING

SEDIMENT CONTROL & STORM WATER MANAGEMENT PLAN

PARCEL F, TWIN KNOLLS SOUTH
 COLUMBIA, VILLAGE OF OAKLAND MILLS
 SECTION 3 AREA 1
 6th Election District, Howard County, Md.

SCALE	DRAWN	CHECKED
1"=50'	MK	
	PROJ. NO.	DATE
	4356	2-1-79
	SHEET	OF
	4	8



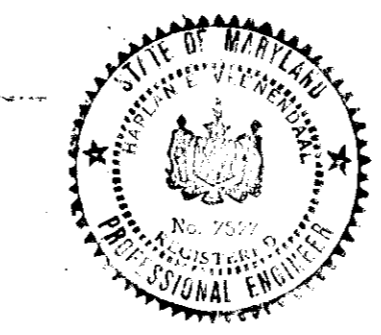
STRUCTURE		SCHEDULE				
No.	Type	Location	Inv. In	Inv. Out	Top El.	Remarks
I-1	Double "S"	See Plan	-	357.5	363.0	Ho. Co. Std. D-101, P.166
I-2	Double "S"	"	358.4	357.7	362.0	"
I-3	Trench Drain	"	-	359.5	362.0	"
I-4	"A" S"	"	356.1	355.5	360.8	Ho. Co. Std. G4-A, P.119A
I-5	"A" S"	"	353.1	351.1	359.0	"
I-6	Double "S"	"	356.5	355.5	360.0	Ho. Co. Std. D-101, P.166
I-7	"A" 10"	"	-	359.5	363.0	Ho. Co. Std. G4-A, P.119A
S-1	"C" Endwall	"	-	345.7	349.2	Ho. Co. Std. D-52, P.107
S-2	Control Struc	"	-	342.4	342.5	"
S-3	"C" Endwall	"	-	342.0	345.5	Ho. Co. Std. D-52, P.107

APPROVED
PLANNING BOARD
OF HOWARD COUNTY
DATE 12-19-79

HOWARD COUNTY DEPT. OF PUBLIC WORKS
Approved: For Public Water, Public Sewerage
Storm Drainage Systems and
Public Roads.
Director _____ Date _____
Chief, Bureau of Engineering _____ Date _____

APPROVED: Howard County Office of
Planning & Zoning
Planning Director _____ Date _____
Chief, Div. of Land Development _____ Date _____

APPROVED: Howard Co. Health Dept.
Re: Public Water and Public Sewerage
Systems.
_____ Date _____

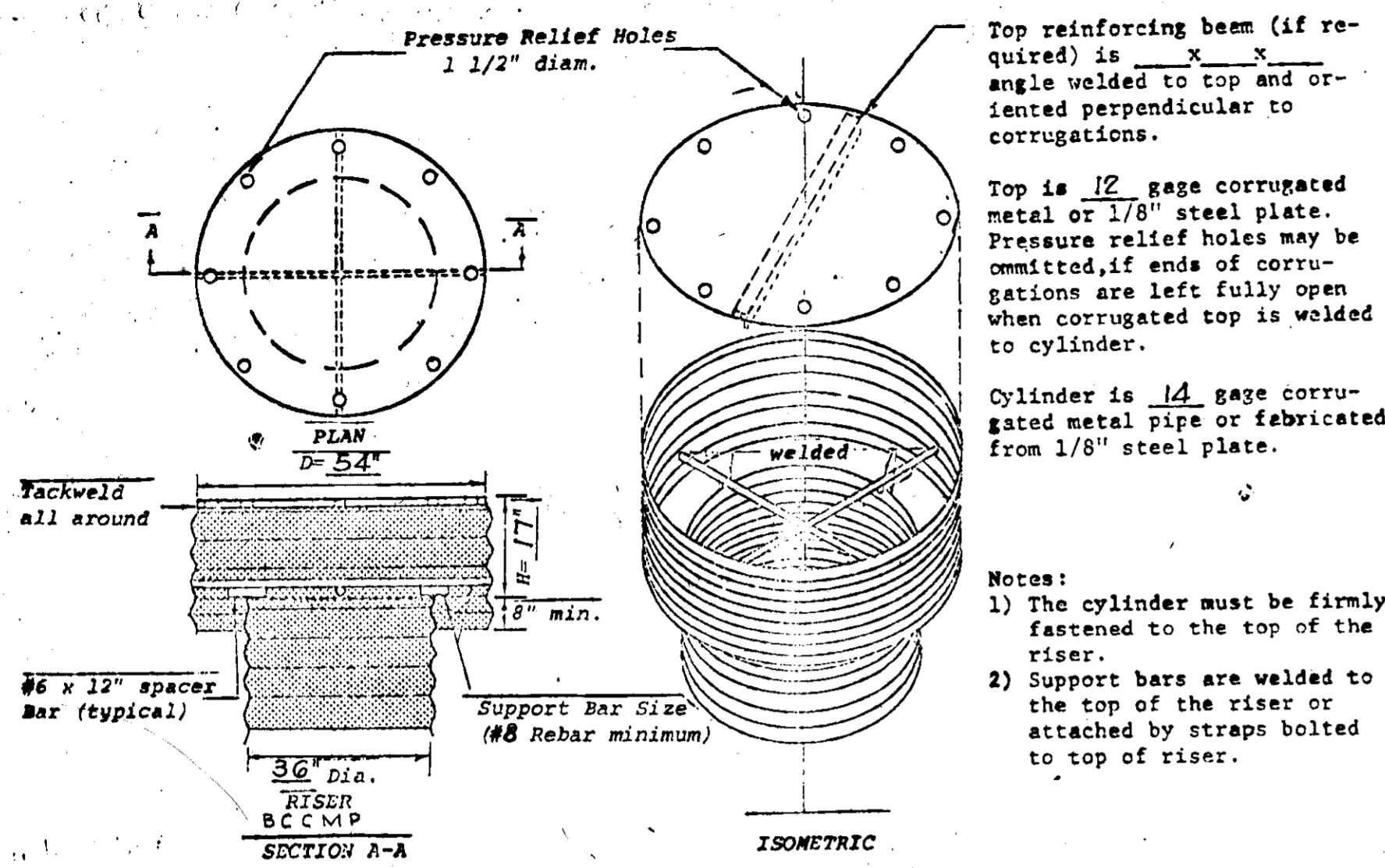


H. E. Vunderland
6-27-79

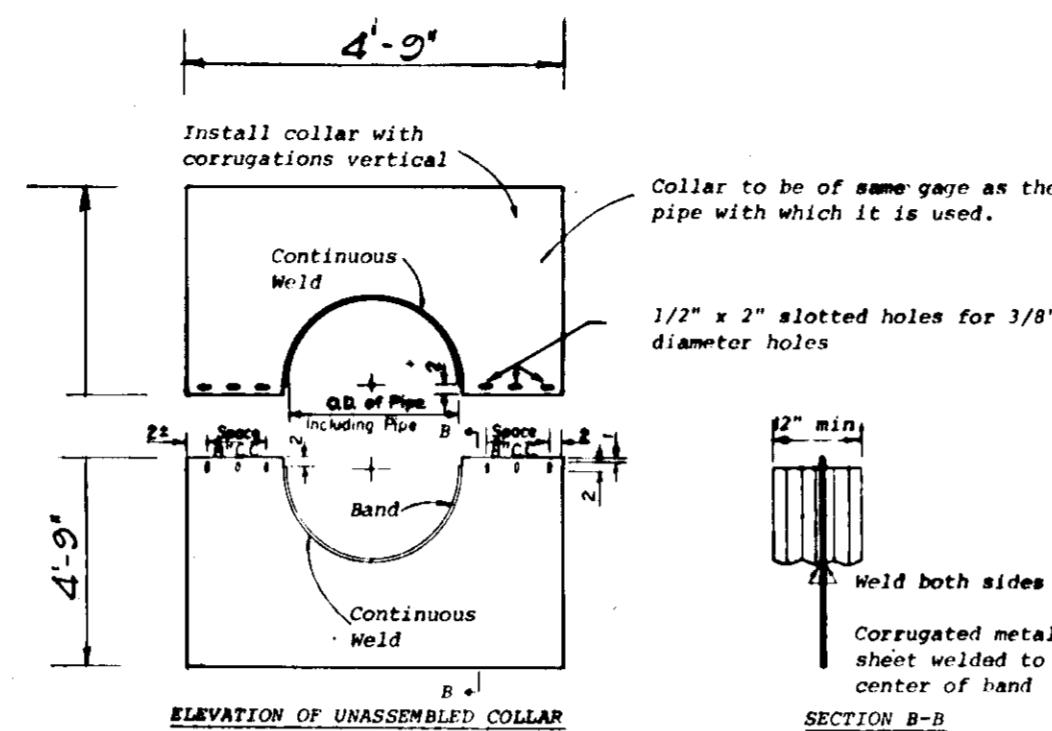
revisions		prepared by rba richard browne associates professional design & planning consultants wildcreek village green, suite 207 columbia, maryland 21044 301/730-7950 596-3524	COLUMBIA UNION CONFERENCE BUILDING STORM DRAIN PROFILES PARCEL F, TWIN KNOLLS SOUTH COLUMBIA, VILLAGE OF OAKLAND MILLS SECTION 3 AREA 1 6th Election District, Howard County, Md.	
no.	description		SCALE: Horiz. 1" = 30' Vert. 1" = 5'	DRAWN: MK PROJ. NO.: 4895 SHEET: 5
date		DATE: 7-6-79 8-27-79	CHECKED: B OF	

CONSTRUCTION NOTES AND SPECIFICATIONS

- CONSTRUCTION SHALL BE IN ACCORDANCE WITH "STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL IN DEVELOPING AREAS" HOWARD SOIL CONSERVATION DISTRICT, JULY, 1975.
- ANTI-VORTEX DEVICE AND TRASH RACK SHALL BE SECURELY INSTALLED ON TOP OF RISER AS SHOWN ON DETAIL, THIS DRAWING.
- RISER BASE SHALL BE 12" THICK CONCRETE WITH RISER EMBEDDED 6" IN BASE. SIDES OF BASE SHALL BE 5'-6" x 4'-0".
- BASIN AREAS SHALL BE FENCED IN ACCORDANCE WITH LOCAL ORDINANCES AND REGULATIONS REGARDING HEALTH AND SAFETY.
- AREAS UNDER THE EMBANKMENT AND ANY STRUCTURAL WORKS SHALL BE CLEARED, GRUBBED AND STRIPPED OF TOPSOIL TO REMOVE TREES, VEGETATION, ROOTS OR OTHER OBJECTIONABLE MATERIAL. IN ORDER TO FACILITATE CLEAN-OUT AND RESTORATION, THE POOL AREA (MEASURED AT THE TOP OF THE PIPE SPILLWAY) WILL BE CLEARED OF ALL BRUSH AND TREES.
- A CUT-OFF TRENCH SHALL BE EXCAVATED ALONG THE CENTERLINE OF EARTH FILL EMBANKMENTS. THE MINIMUM DEPTH SHALL BE TWO FEET. THE CUT-OFF TRENCH SHALL EXTEND UP BOTH ABUTMENTS TO THE RISER CREST ELEVATION. THE MIN. BOTTOM WIDTH SHALL BE FOUR FEET, BUT WIDE ENOUGH TO PERMIT OPERATION OF EXCAVATION AND COMPACTION EQUIPMENT. THE SIDE SLOPES SHALL BE NO STEEPER THAN 1:1. COMPACTION REQUIREMENTS SHALL BE THE SAME AS THOSE FOR THE EMBANKMENT. THE TRENCH SHALL BE DEWATERED DURING THE BACKFILLING AND COMPACTION OPERATIONS. THE BACKFILL MATERIAL FOR THE TRENCH SHALL BE THE MOST IMPERVIOUS MATERIAL AVAILABLE.
- THE FILL MATERIAL SHALL BE TAKEN FROM APPROVED BORROW AREAS. IT SHALL BE CLEAN MINERAL SOIL FREE OF ROOTS, WOODY VEGETATION, OVERSIZED STONES, ROCKS, OR OTHER OBJECTIONABLE MATERIAL. RELATIVELY PERVIOUS MATERIALS SUCH AS SAND OR GRAVEL (UNIFIED SOIL CLASSES GW, GP, SW, AND SP) SHALL NOT BE PLACED IN THE EMBANKMENT. AREAS ON WHICH FILL IS TO BE PLACED SHALL BE SCARIFIED PRIOR TO PLACEMENT OF FILL. THE FILL MATERIAL SHALL CONTAIN SUFFICIENT MOISTURE SO THAT IT CAN BE FORMED BY HAND INTO A BALL WITHOUT CRUMBLING. IF WATER CAN BE SQUEEZED OUT OF THE BALL IT IS TOO WET FOR PROPER COMPACTION. FILL MATERIAL SHALL BE PLACED IN SIX TO EIGHT INCH THICK CONTINUOUS LAYERS OVER THE ENTIRE LENGTH OF THE FILL. COMPACTION SHALL BE OBTAINED BY ROUTING THE ENTIRE LENGTH OF THE FILL. COMPACTION SHALL BE OBTAINED BY ROUTING THE ENTIRE LENGTH OF THE FILL. COMPACTION SHALL BE OBTAINED BY ROUTING THE ENTIRE LENGTH OF THE FILL. COMPACTION SHALL BE OBTAINED BY ROUTING THE ENTIRE LENGTH OF THE FILL. COMPACTION SHALL BE OBTAINED BY ROUTING THE ENTIRE LENGTH OF THE FILL.
- THE RISER SHALL BE SECURELY ATTACHED TO THE BARREL BY WELDING ALL AROUND AND ALL CONNECTIONS SHALL BE WATERTIGHT. THE BARREL AND RISER SHALL BE PLACED ON A FIRM SMOOTH SOIL FOUNDATION. THE CONNECTION BETWEEN THE RISER AND THE RISER BASE SHALL BE WATERTIGHT. PERVIOUS MATERIALS SUCH AS SAND, GRAVEL OR CRUSHED STONE SHALL NOT BE USED AS BACKFILL AROUND THE PIPE OR ANTI-SEEP COLLARS. THE FILL MATERIAL AROUND THE PIPE SPILLWAY SHALL BE PLACED IN FOUR INCH LAYERS AND COMPACTION UNDER THE SHOULDERS AND AROUND THE PIPE TO AT LEAST THE SAME DENSITY AS THE ADJACENT EMBANKMENT. A MINIMUM OF TWO FEET OF HAND COMPACTED BACKFILL SHALL BE PLACED OVER THE PIPE SPILLWAY BEFORE CROSSING IT WITH CONSTRUCTION EQUIPMENT.
- REPAIR ALL DAMAGES CAUSED BY SOIL EROSION OR CONSTRUCTION EQUIPMENT AT OR BEFORE THE END OF EACH WORKING DAY.
- SEDIMENT SHALL BE REMOVED FROM BASIN WHEN IT REACHES THE SPECIFIED DISTANCE BELOW THE TOP OF THE RISER. THIS SEDIMENT SHALL BE PLACED IN SUCH A MANNER THAT IT WILL NOT ERODE FROM THE SITE. THE SEDIMENT SHALL NOT BE DEPOSITED DOWNSTREAM FROM THE EMBANKMENT OR IN OR ADJACENT TO A STREAM OR FLOOD PLAIN.
- POND RISER AND STUBS TO BE FACTORY ASSEMBLED.



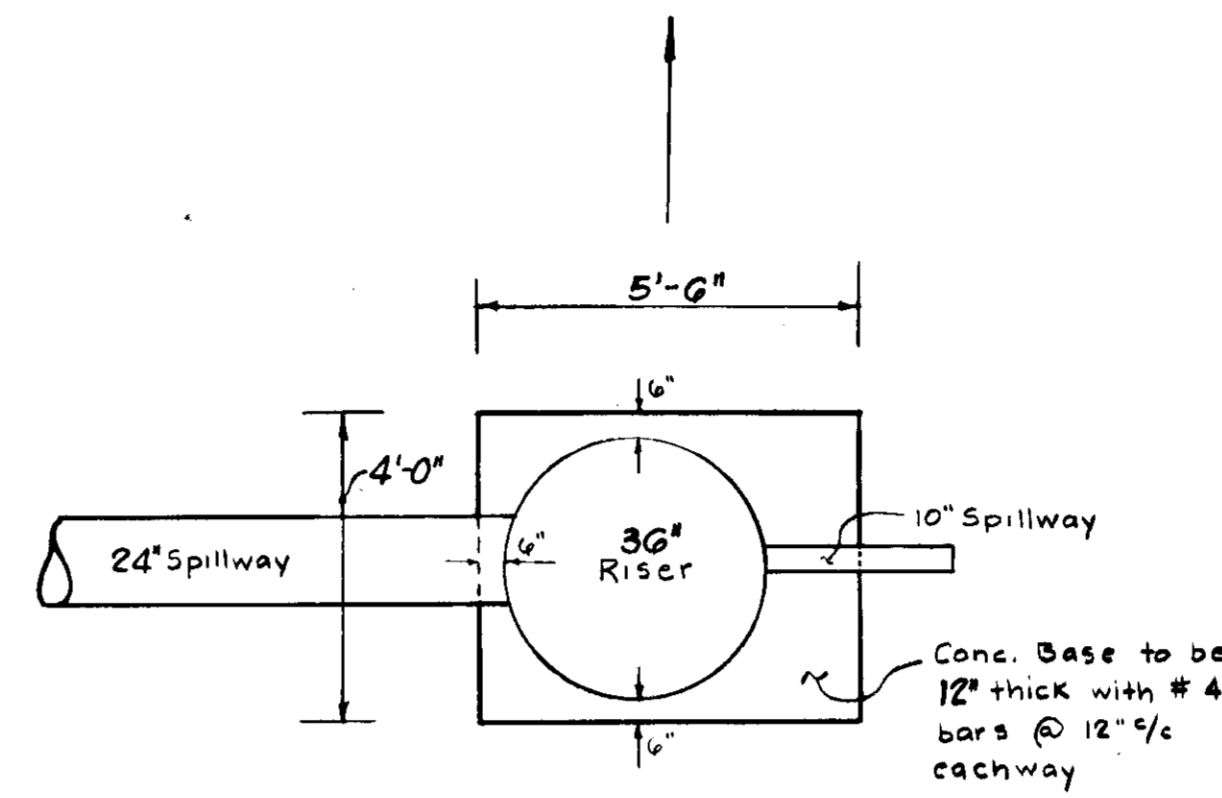
CONCENTRIC TRASH RACK AND ANTI-VORTEX DEVICE (not to scale)



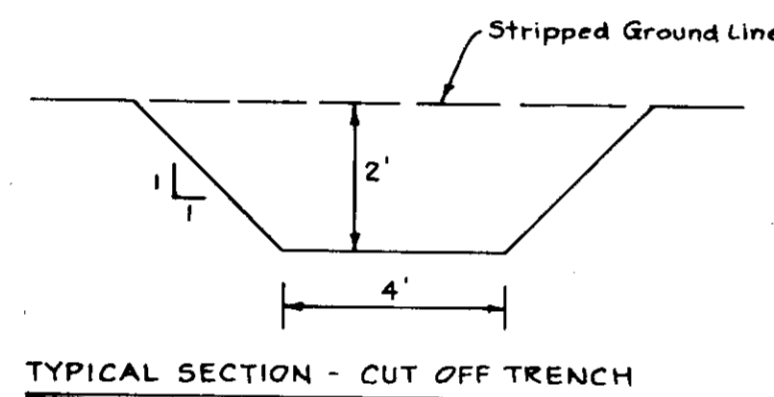
NOTES FOR COLLARS:

- All materials to be in accordance with construction and construction material specifications.
- When specified on the plans, coating of collars shall be in accordance with construction and construction material specifications.
- Unassembled collars shall be marked by painting or tagging to identify matching pairs.
- The lap between the two half sections and between the pipe and connecting band shall be caulked with asphalt mastic at time of installation.
- Each collar shall be furnished with two 1/2" diameter rods with standard tank lugs for connecting collars to pipe.

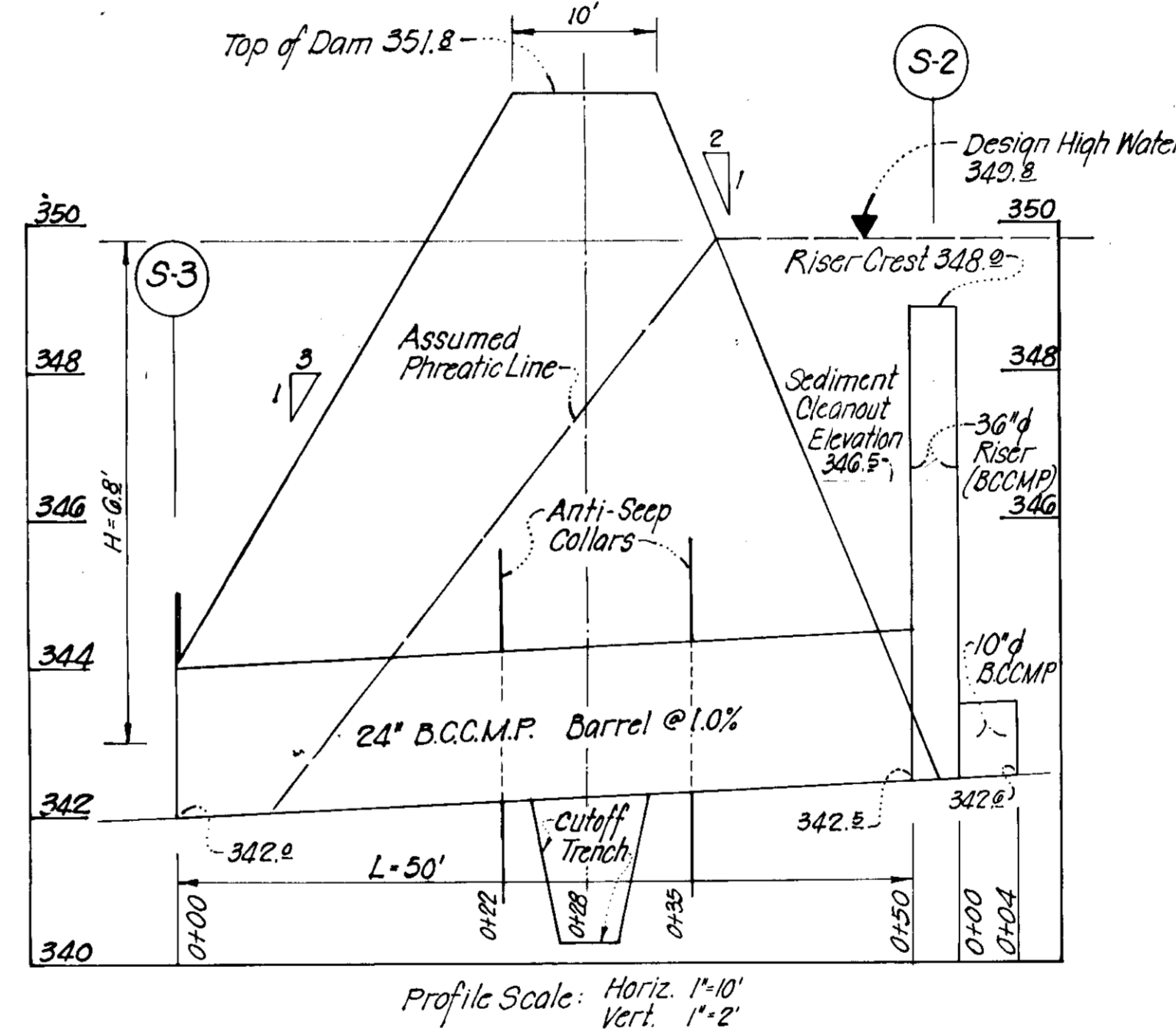
DETAILS OF CORRUGATED METAL ANTI-SEEP COLLAR



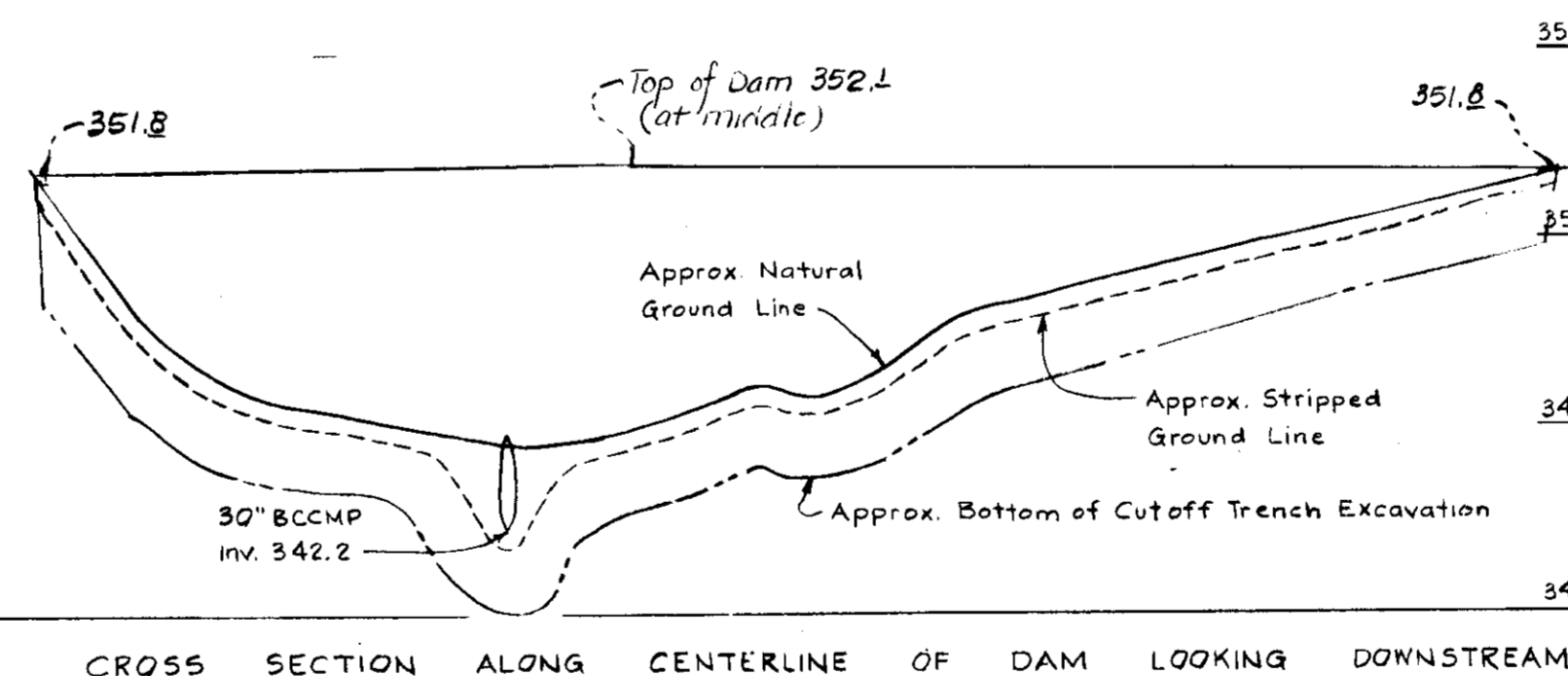
RISER BASE DETAIL (No Scale)



TYPICAL SECTION - CUT OFF TRENCH

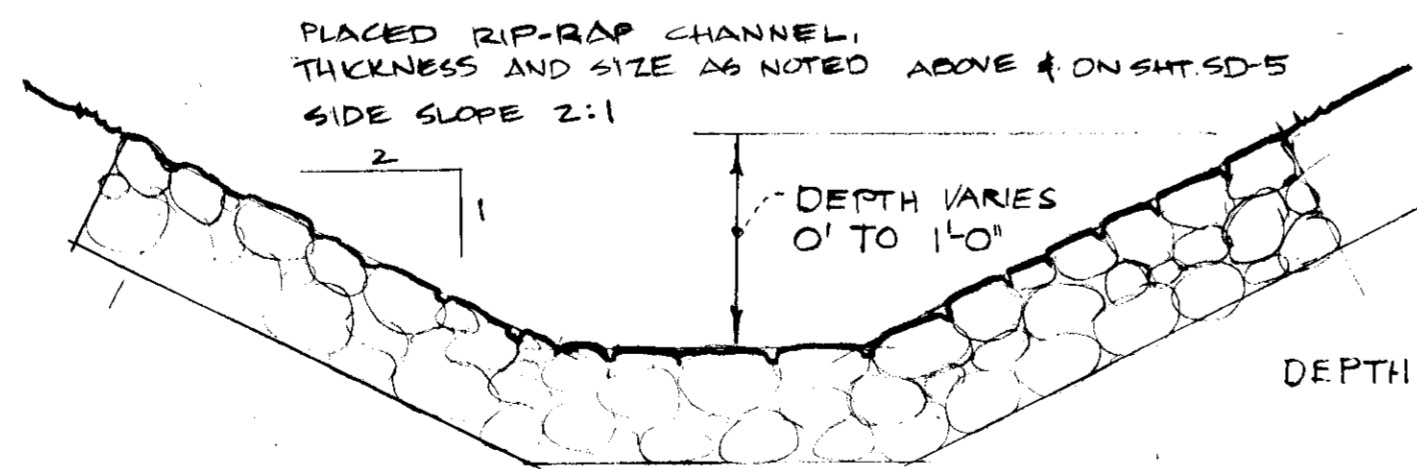


Profile Scale: Horiz. 1"=10' Vert. 1"=2'



CROSS SECTION ALONG CENTERLINE OF DAM LOOKING DOWNSTREAM

Scale: Horiz. 1"=30' Vert. 1"=5'



CROSS SECTION OF RIP-RAP CHANNEL NO SCALE

CONSTRUCTION SEQUENCE:

- Construct Stabilized Construction Entrance.
- Grade entrance drive to proposed building location, and construct silt fencing as shown.
- Construct basin, outfalls, diversion dike and dry pond embankment. Complete and stabilize embankment by seeding. Brick shut end of 10" B.C.C.M.P.
- Install storm drain system and grade building pad and parking areas.
- Stabilize by seeding all disturbed areas.
- When sedimentation has ended, remove sediment first, then remove plug from 10" B.C.C.M.P. complete paving of parking areas.
- Remove temporary sediment control features, i.e. diversion dikes and silt fences, only after complete stabilization is created.

APPROVED
PLANNING BOARD
OF HOWARD COUNTY

DATE 12-19-79
[Signature]

ARCHITECT: RONALD S. SEISEMAN, FAIA
1076 NEW HAMPSHIRE AVE.
LANGLEY PARK, MD 20783

OWNER: COLUMBIA UNION CONFERENCE CORPORATION
7710 CARROLL AVE., TAKOMA PARK, MD 20912

HOWARD COUNTY DEPT. OF PUBLIC WORKS
Approved: For Public Water, Public Sewerage
Storm Drainage Systems and
Public Roads
[Signature]
Date 7-8-80

APPROVED: Howard County Office of
Planning & Zoning
[Signature]
Date 2-14-80

APPROVED: Howard Co. Health Dept.
for Public Water and Public Sewerage
Systems.
[Signature]
Date

DEPTH OF STONE @ 5'-1 = 8"
@ OUTFALL = 7"



no.	description	date

prepared by
[Logo] rba richard browne associates
professional design & planning consultants
wide lake village green, suite 207
columbia, maryland 21044
301/730-7950 596-3524

COLUMBIA UNION CONFERENCE BLDG.
SEDIMENT CONTROL & STORM
WATER MANAGEMENT DETAILS
PARCEL F, TWIN KNOLLS SOUTH
COLUMBIA, VILLAGE OF OAKLAND MILLS
SECTION 3 AREA 1
6th Election District, Howard County, Md.

SCALE as shown	
DRAWN	CHECKED
MK	
PROJ. NO. 4355	DATE 7-6-79
6	8-21-79
SHEET	OF 8

1 GENERAL NOTES:

1. Division Terraces (or Furrows) will be utilized to reduce slope lengths where possible, during land grading operations.
2. Permanent Vegetation will be established as rapidly as possible on all exposed faces of cuts and fills and other areas following grading operations.
3. Temporary Vegetation will be applied upon completion of rough grading on all other disturbed areas where such areas will not be built on within a period of ninety (90) days.
4. Storm Sewer inlets located below high silt producing areas will be protected by the use of adequate silt traps during construction.

2 SEDIMENT AND SOIL EROSION CONTROL NOTES:

1. All Sediment Control Measures to be adjusted to meet field conditions at time of construction and be constructed prior to any grading or disturbance of existing surface material.
2. All Sediment Measures shall be undertaken in strict accordance with the approved plans and the criteria specifications approved by the Howard County Soil Conservation District (Ho Co SCD).
3. All Seeding on Sediment Control Facilities to be done in accordance with the Ho Co SCD, see Temporary Seeding Specs, this sheet Seeding to be done immediately upon construction.
4. Periodic inspection and maintenance of all Sediment Control Structures must be provided to insure the intended purpose is accomplished.
5. Contractor installing the above shall obtain and follow the Standards and Specifications for soil erosion in urbanizing areas, as distributed by the Ho Co SCD.
6. All Sediment Control Measures are to remain in place until permission for their removal has been obtained from the Ho Co Office of Inspections and Permits.
7. Notify the Ho Co Office of Inspections and Permits prior to starting any work (MS-2456).
8. On site inspection and maintenance of all Sediment Control Measures including cleanout of all Sediment Traps and Drains and proper establishment of all vegetation measures will be the responsibility of the Contractor or his representative on the site on a continuing day to day basis.

3 TEMPORARY SEEDING SPECIFICATIONS:

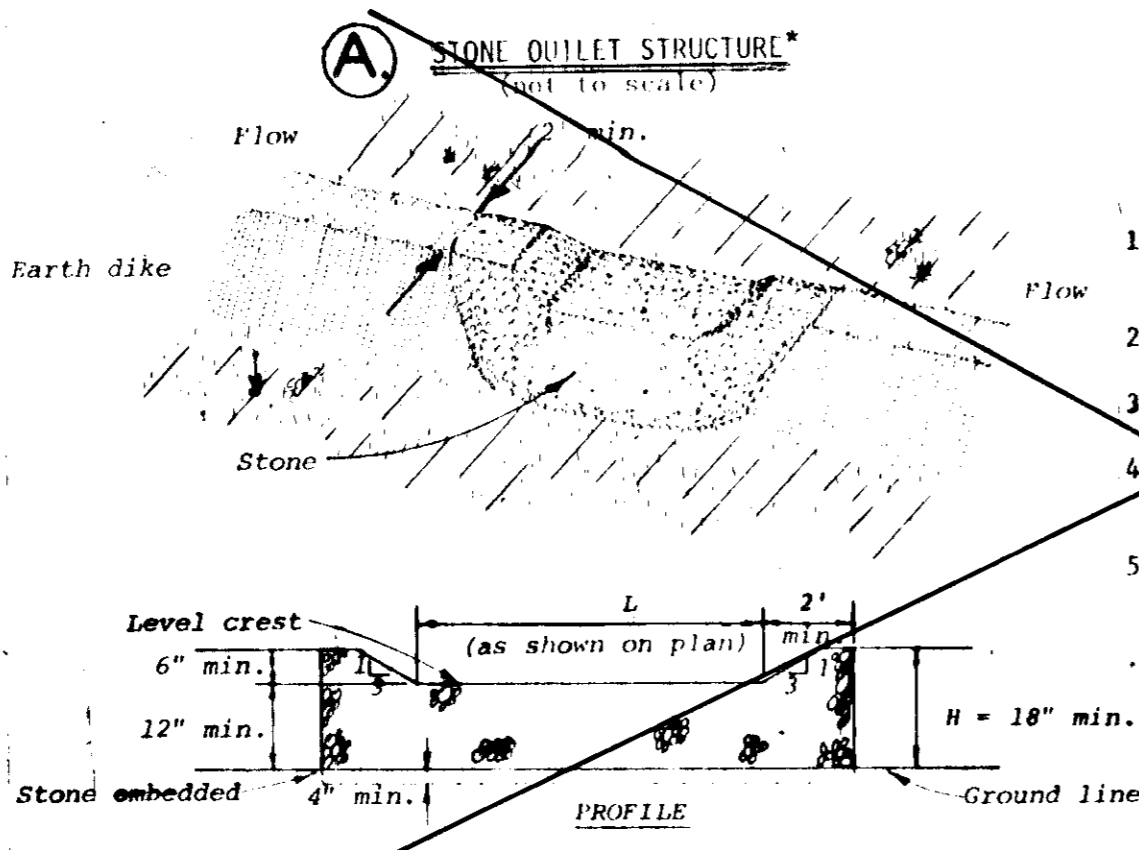
1. Apply ground agricultural limestone at the rate of two tons per acre.
2. Apply a minimum of 500 lbs. per acre of 10-20-10 or equivalent fertilizer.
3. Incorporate both lime and fertilizer into the top 3/4" of surface soil by disking or other suitable means.
4. Seed one of the following mixtures at the rate shown per acre. (August 1 to November 1)
50 lbs. Italian rye grass or
2 bu rye (small grain) or
3 bu winter oats.
5. Mutch according to Mulching notes, this sheet.

4 PERMANENT SEEDING SPECIFICATIONS:

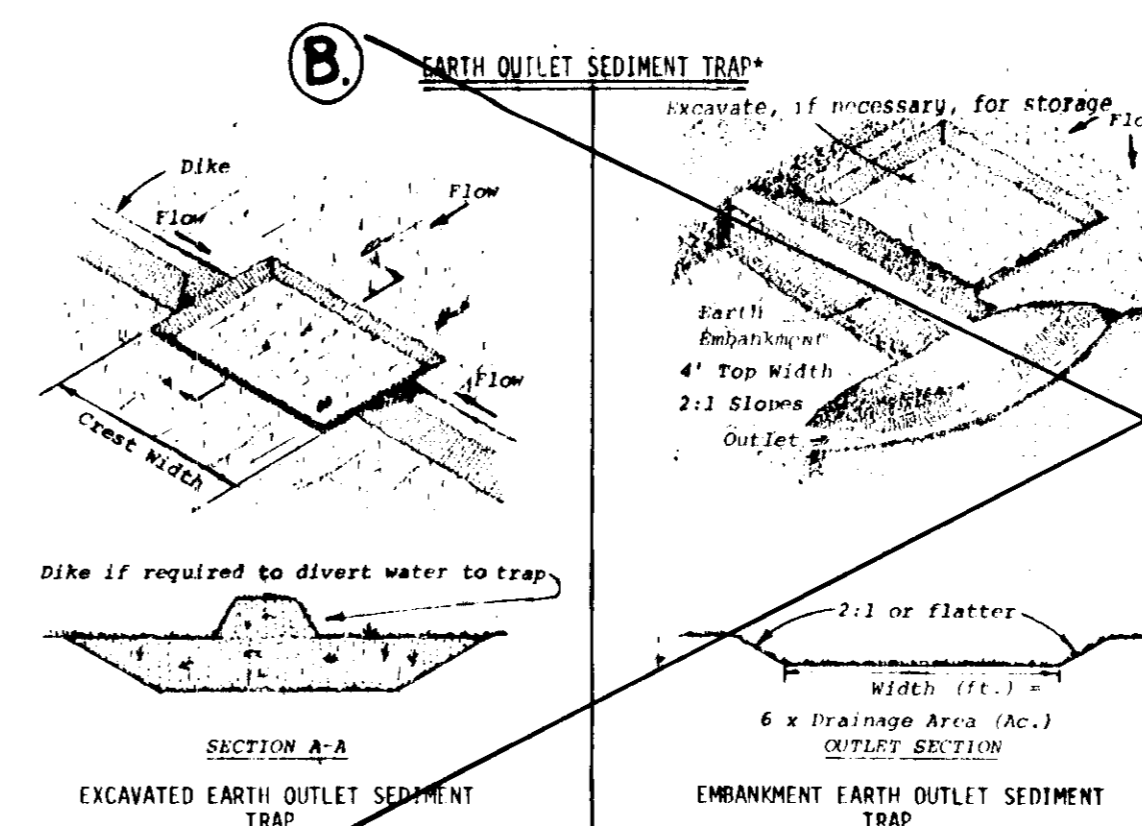
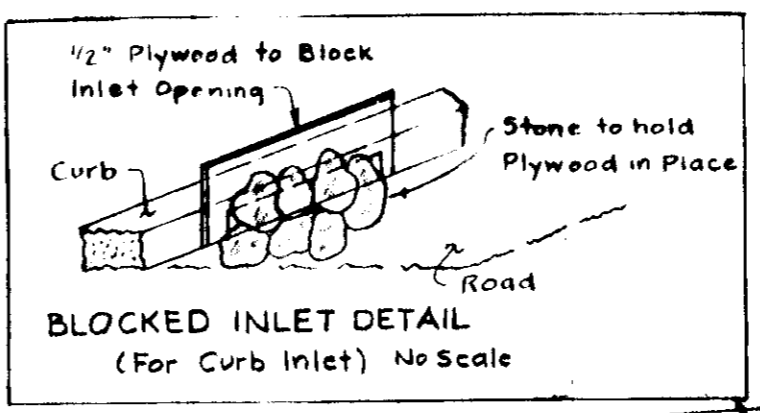
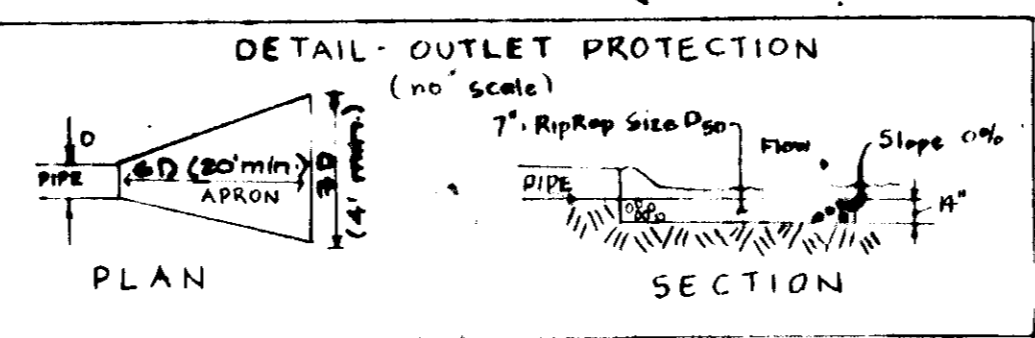
- Before seeding apply the following: 2000# Ground Agricultural Limestone
1000# 5-10-10 Fertilizer
- Distribute into the soil to a depth of 2-3"
- Then seed the following mixture at the rate shown per acre:
50 lbs. Kentucky 31 Tall Fescue
15 lbs. Korean Lespedeza
- Mutch as stated under mulching notes, this sheet.
- Slopes flatter than 3:1 in lawns.
- Lime and Fertilizer as above.
Incorporate as above.
- Seed to 60# Kentucky Blue Grass and 60# Red Fescue
Mutch as above.

5 MULCHING:

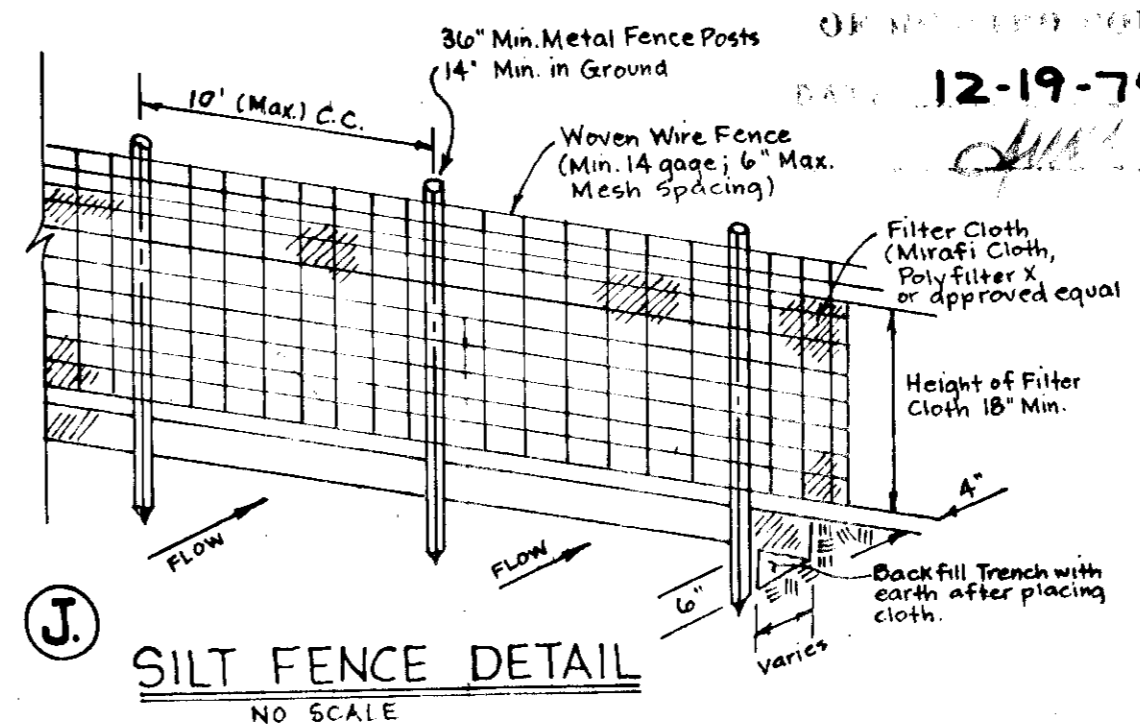
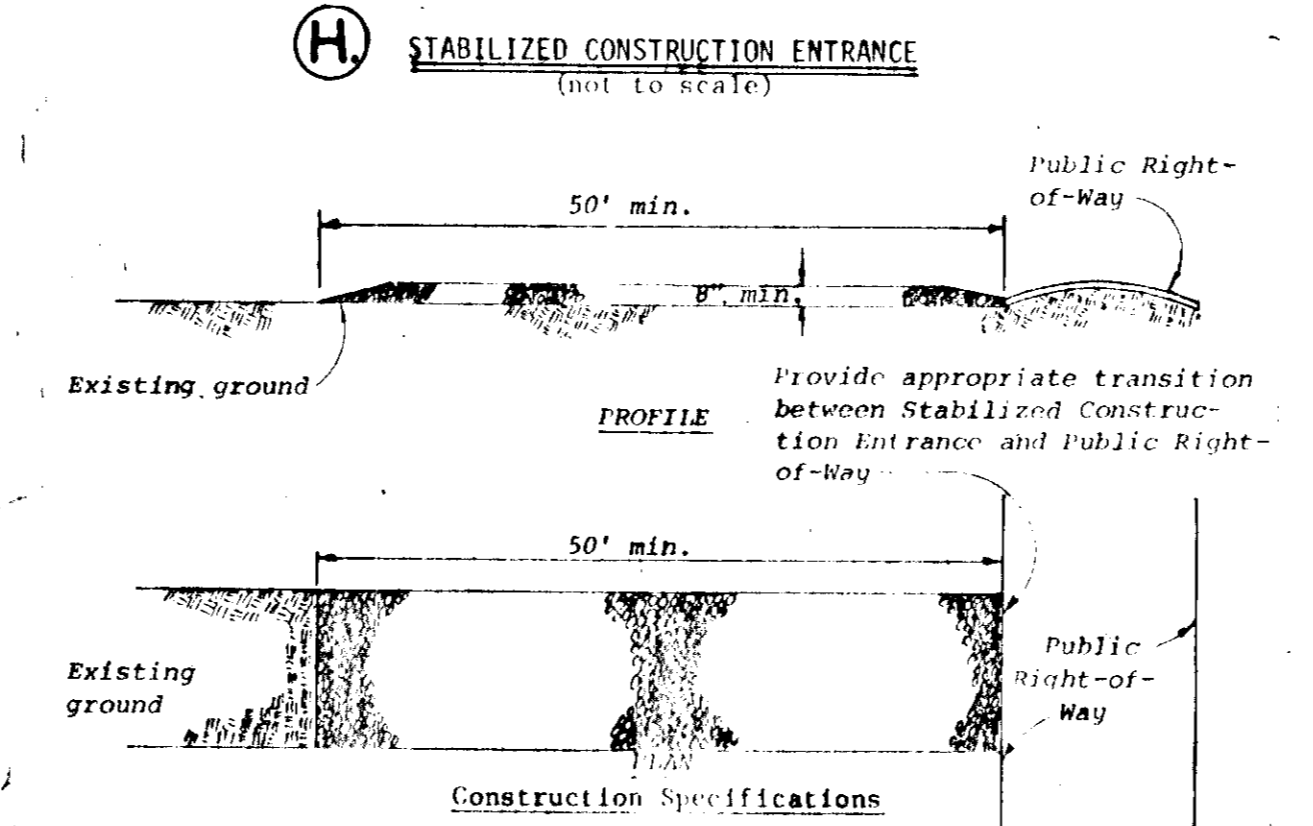
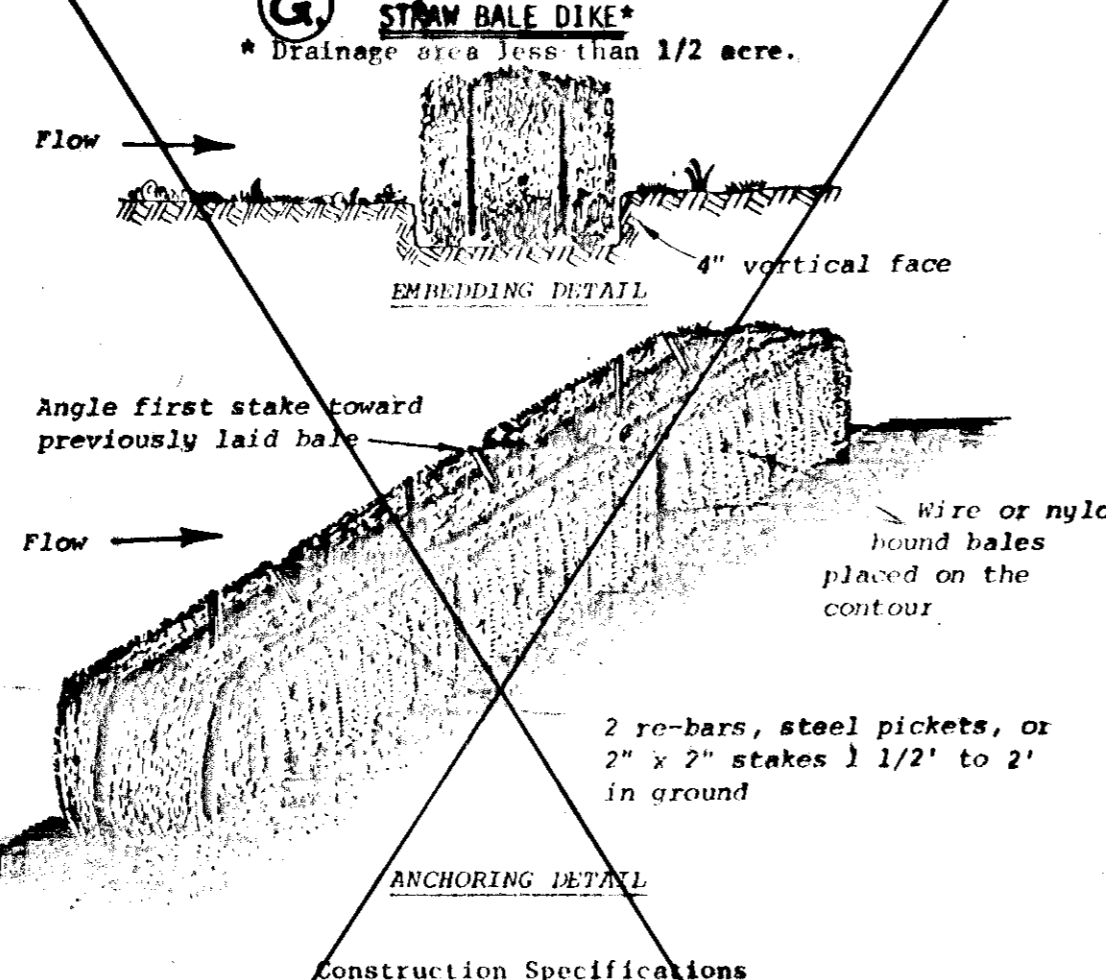
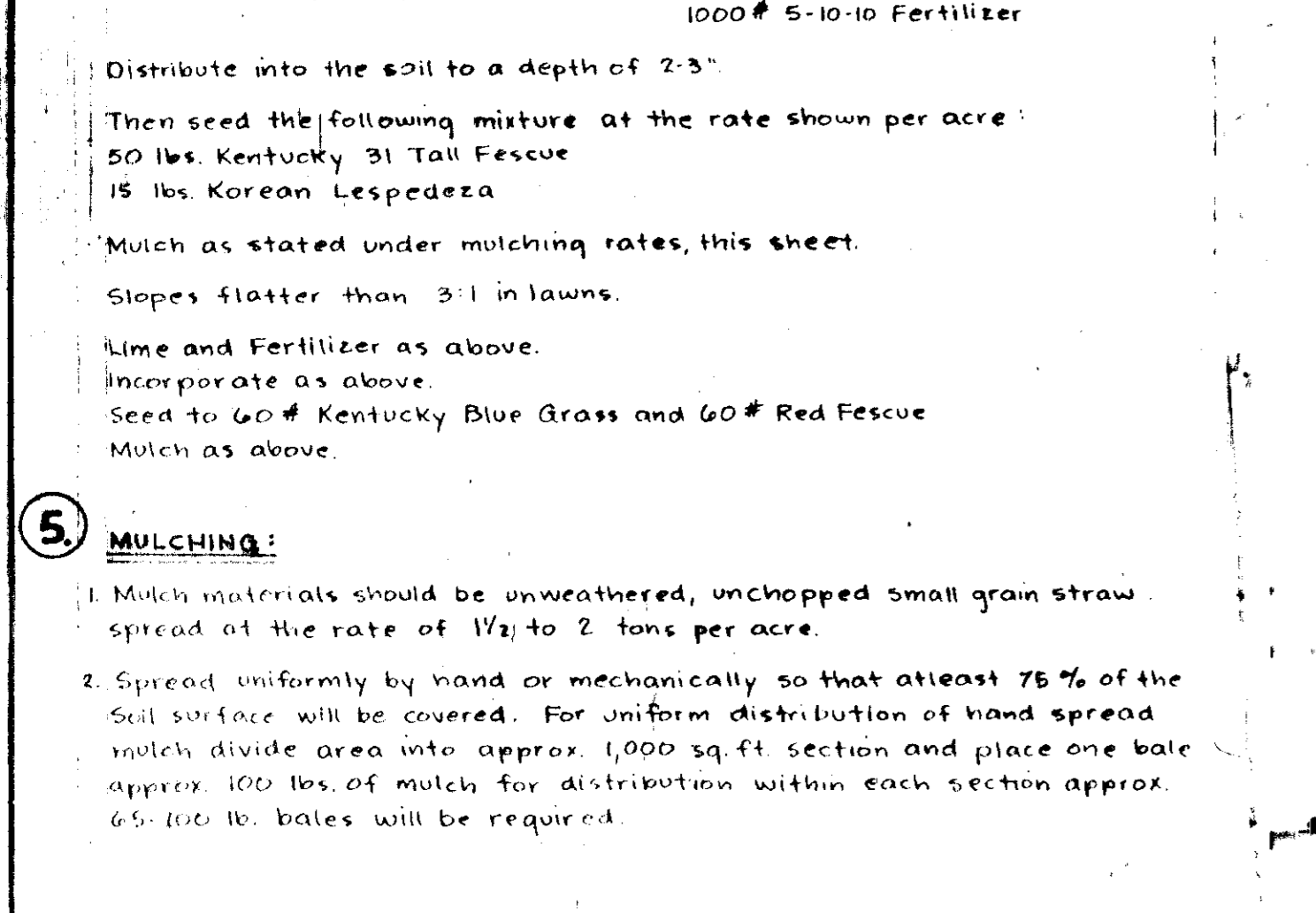
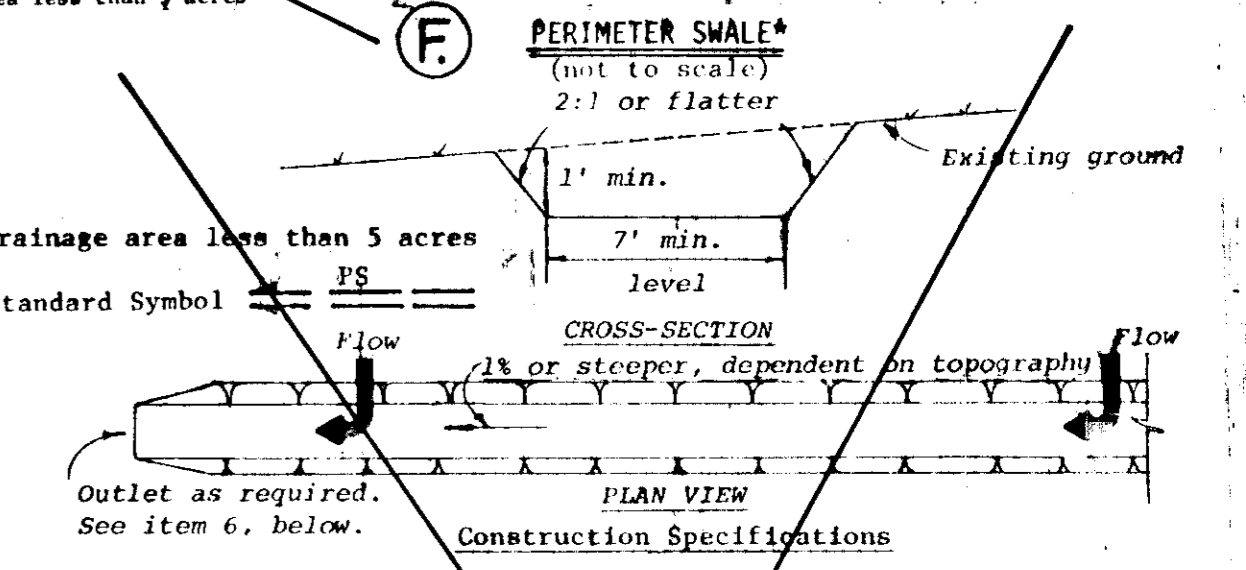
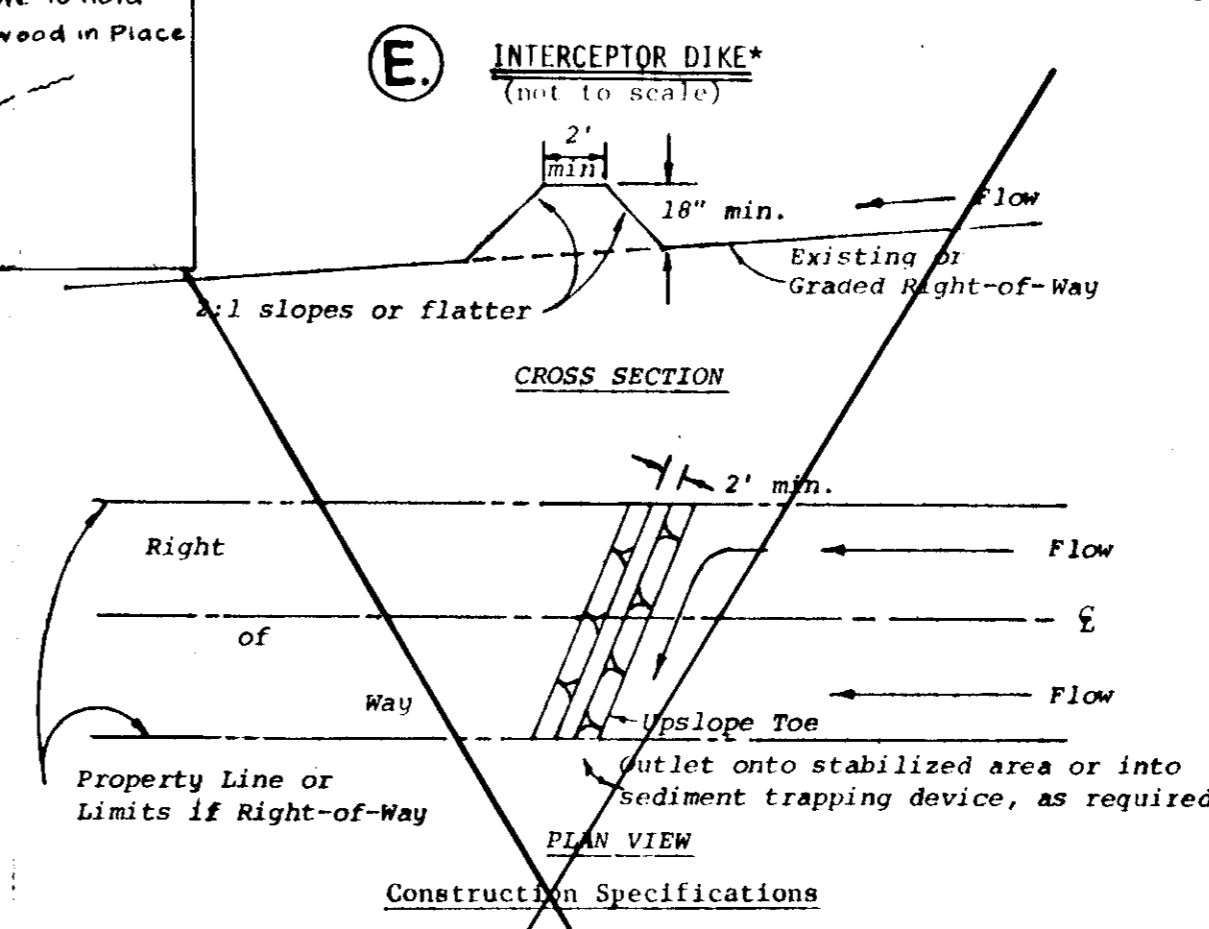
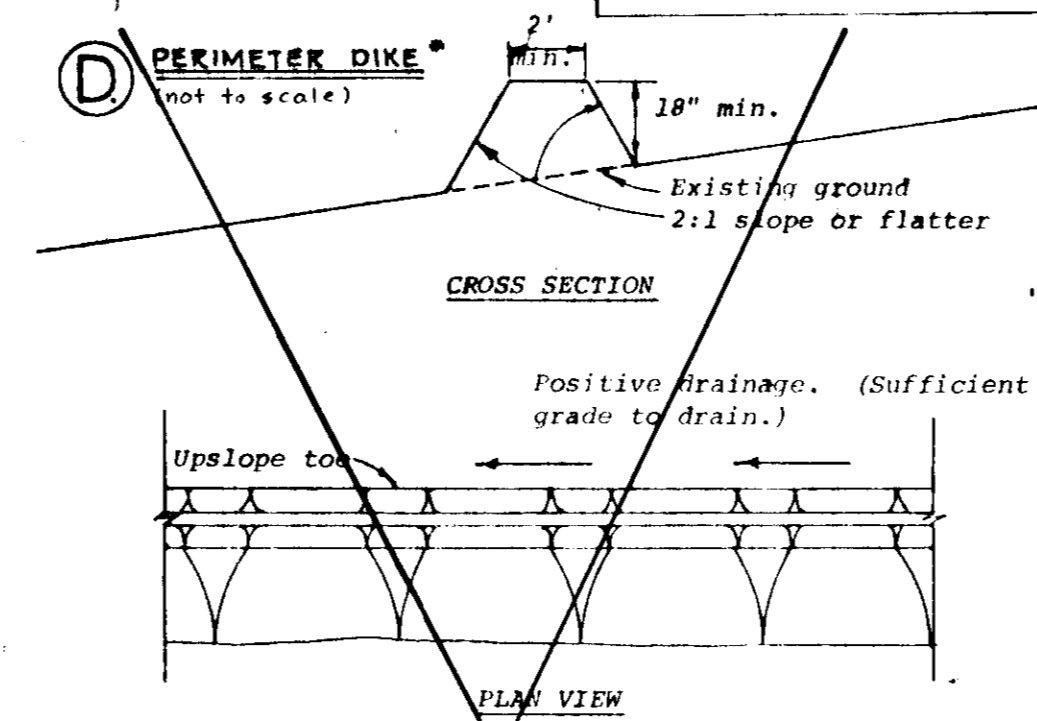
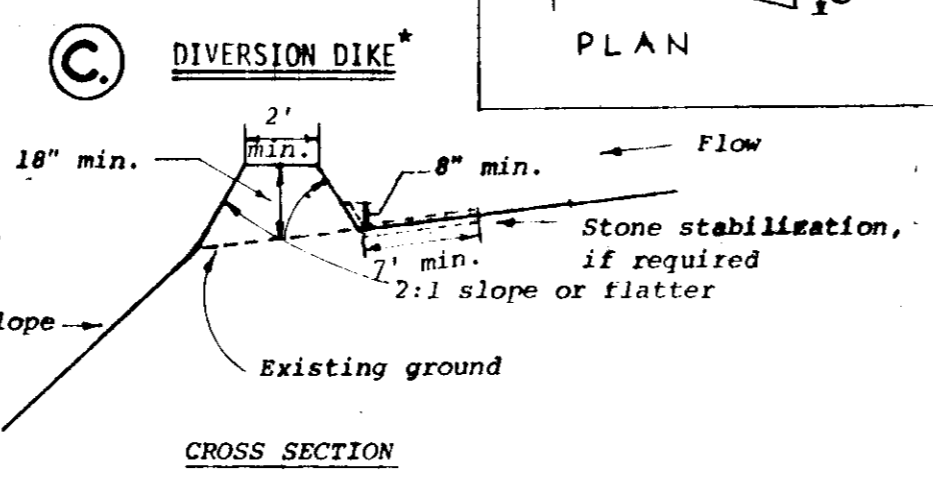
1. Mutch materials should be unweathered, unchopped small grain straw spread at the rate of 1 1/2 to 2 tons per acre.
2. Spread uniformly by hand or mechanically so that at least 75% of the soil surface will be covered. For uniform distribution of hand spread mutch divide area into approx. 1,000 sq. ft. sections and place one bale approx. 100 lbs. of mutch for distribution within each section approx. 65-100 lb. bales will be required.



- Construction Specifications**
1. The stone shall be crushed stone. Gravel may be used if crushed stone is not available. The stone shall meet MSHA Size No. 2 or AASHTO designation M33 Size No. 2 or 7a.
 2. The crest of the stone dike shall be at least six inches lower than the lowest elevation of the top of the earth dike and shall be level.
 3. The stone outlet structure shall be embedded into the soil a minimum of four inches.
 4. The minimum length, in feet, of the crest of the stone outlet structure shall be equal to six times the number of acres of contributing drainage area.
 5. The stone outlet structure shall be inspected after each rain, and the stone shall be replaced when the structure ceases to function as intended due to silt accumulation among the stone, washout, construction traffic damage, etc.



- Construction Specifications**
1. Area under embankment shall be cleared, grubbed and stripped of any vegetation and root mat. The pool area shall be excavated to a depth of 12 inches below the top of the embankment. The fill material for the embankment shall be free of roots or other woody vegetation as well as oversized stones, rocks, organic material, or other objectionable material. The embankment shall be compacted by traversing with equipment while it is being constructed.
 2. 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. Removed sediment shall be deposited in a suitable area and in such a manner that it will not erode.
 3. The structure shall be inspected after each rain and repairs made as needed.
 4. Construction operations shall be carried out in such a manner that erosion and water pollution are minimized.
 5. The structure shall be removed and area stabilized when the drainage area has been properly stabilized.
 6. Cut and fill slopes shall be 2:1 or flatter.
 7. Outlet crest elevation shall be at least one foot below the top of the embankment.



- Construction Specifications**
1. Bales shall be placed in a row with ends tightly abutting the adjacent bales.
 2. Each bale shall be embedded in the soil a minimum of 4 inches.
 3. Bales shall be securely anchored in place by stakes or re-bars driven through the bales. The first stake in each bale shall be angled toward previously laid bale to force bales together.
 4. Inspection shall be frequent and repair or 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.

- Construction Specifications**
1. Stone size - Use MSHA size No. 2 (2-1/2" to 1") or AASHTO designation M33, size No. 7 (2-1/2" to 1-1/2"). Use crushed stone.
 2. Length - As effective, but not less than 50 feet.
 3. Thickness - Not less than eight (8) inches.
 4. Width - Not less than full width of all points of ingress or egress.
 5. Washing - When necessary, wheels shall be cleaned to remove sediment prior to entrance onto public right-of-way. When washing is required, it shall be done on an area stabilized with crushed stone which drains into an approved sediment trap or sediment basin. All sediment shall be prevented from entering any stone drain, ditch, or watercourse through use of sand bags, gravel, boards or other approved methods.
 6. Maintenance - The entrance shall be maintained in a condition which will prevent tracking or flooding of sediment onto public rights-of-way. This may require periodic top dressing with additional stone as eroded. If low demand and repair and/or cleanout of any measures used to trap sediment. (1) sediment spilled, dropped, washed or tracked onto public rights-of-way must be removed immediately.

- NOTE:**
1. Woven Wire fence to be fastened securely to fence posts with wire ties.
 2. Filter cloth to be fastened securely to woven wire fence with wire ties spaced every 24" x 24".
- ARCHITECT: RONALD S. SEISEMAN, FAIA
7676 NEW HAMPSHIRE AVE., LAWLEY PARK, MD 20788
OWNER: COLUMBIA UNION CONFERENCE CORPORATION
7710 CARROLL AVE., TAKOMA PARK, MD 20912

HOWARD COUNTY DEPT OF PUBLIC WORKS
Approved: For Public Water, Public Sewerage, Storm Drainage Systems and Public Roads

APPROVED: Howard County Office of Planning & Zoning
Planning Director: [Signature] Date: [Date]

APPROVED: Howard Co. Health Dept. for Public Water and Public Sewerage Systems
Chief, Div. of Land Development: [Signature] Date: [Date]

APPROVED: Howard Co. Health Dept. for Public Water and Public Sewerage Systems
Health Officer: [Signature] Date: [Date]

Director: [Signature] Date: [Date]
Chief, Bureau of Engineering: [Signature] Date: [Date]

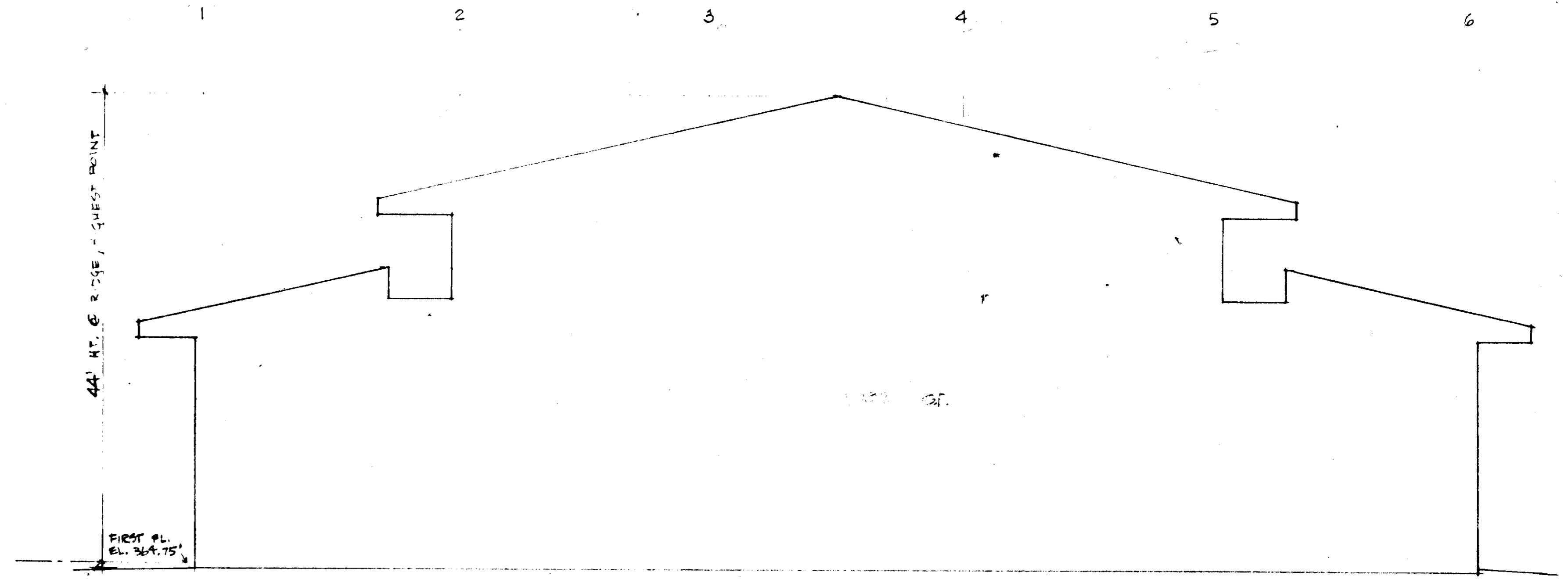
richard p. browne associates
professional design & planning consultants
wayne, new jersey • columbia, maryland

DRAWN: MK CHKD: [Signature] SHEET: 7 OF 8

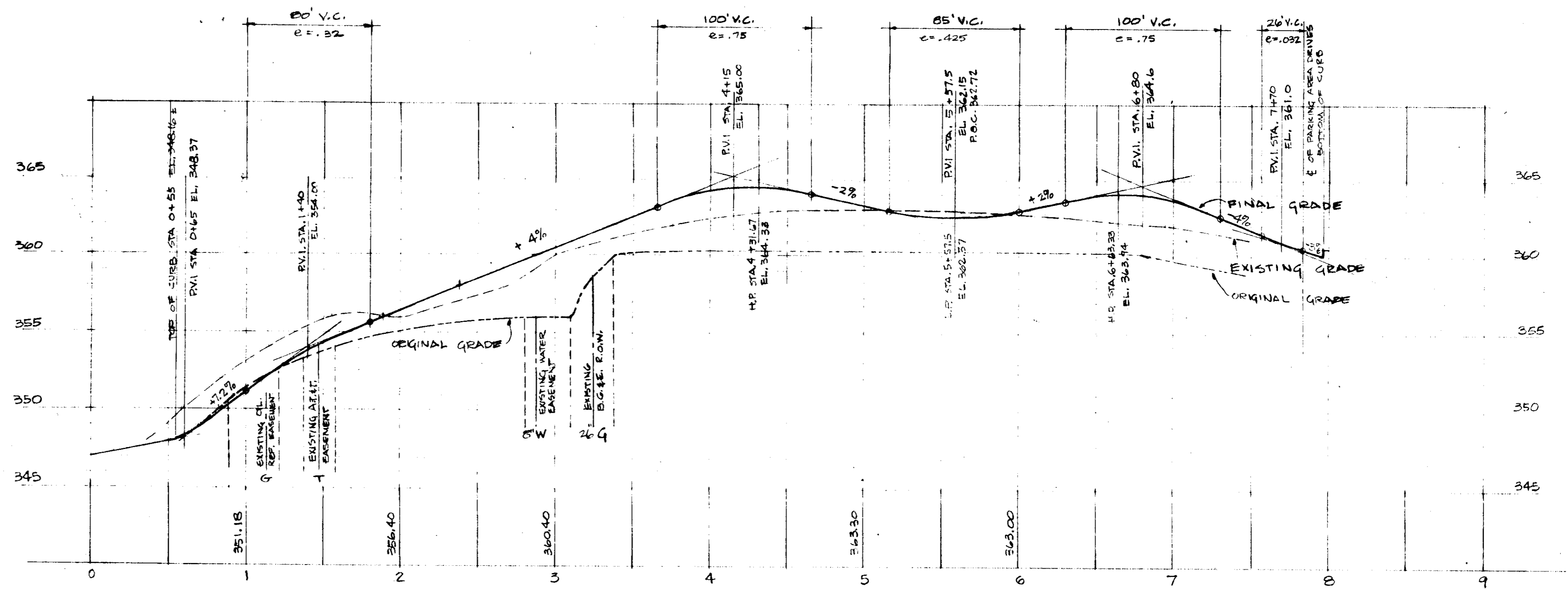
COLUMBIA UNION CONFERENCE BLDG.
SEDIMENT CONTROL DETAILS

PARCEL F, TWIN KNOLLS SOUTH, COLUMBIA VILLAGE OF OAKLAND MILLS, SECTION 3, AREA 1 6th Election District, Howard County, Maryland

SCALE: AS SHOWN DATE: 12-19-79 PROJECT NO. 4836

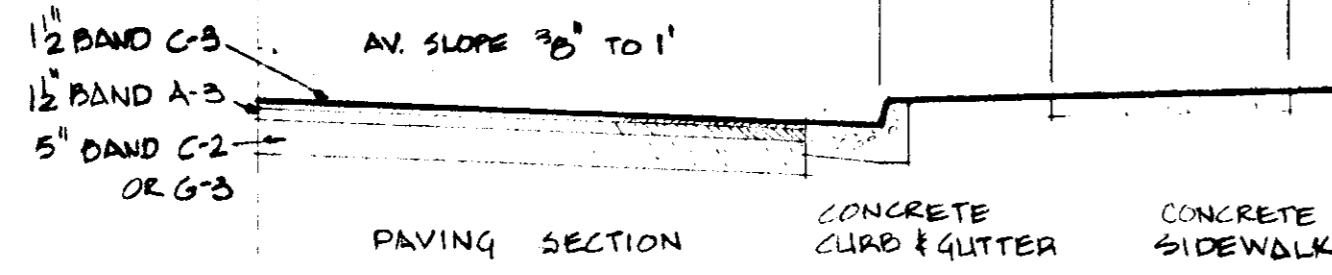


① BUILDING PROFILE
SCALE 1/8" = 1'-0"



② PROFILE OF ACCESS ROAD
SCALE: HORIZONTAL 1" = 50'
VERTICAL 1" = 5'

BITUMINOUS CONCRETE SURFACE
BITUMINOUS CONCRETE BINDER
BITUMINOUS CONCRETE BASE



③ DRIVEWAY PAVING
SCALE 1/4" = 1'-0"

APPROVED
PLANNING BOARD
OF HOWARD COUNTY
DATE 12-19-79

APPROVED: HOWARD CO. DEPT. OF PUBLIC WORKS
FOR PUBLIC WATER, PUBLIC SEWERAGE AND
STORM DRAINAGE AND ROADS.
Thomas F. Neuman
DIRECTOR
CHIEF BUREAU OF ENGINEERING
DATE 2-11-80

APPROVED: HOWARD CO. HEALTH DEPT.
FOR PUBLIC WATER AND PUBLIC
SEWERAGE SYSTEMS.

COUNTY HEALTH OFFICER
DATE

APPROVED: HOWARD CO. OFF. OF PLANNING AND ZONING

PLANNING DIRECTOR
CHIEF DIV. OF LAND DEVELOPMENT
DATE 2-14-80



ARCHITECT: RONALD S. SEVENMAN P.L.L.C.
7074 NEW HAVENWAY AVE., LINCOLN PARK, MD. 20718
STRUCTURAL: SHAW-WALKER ASSOC. ENGINEERS, GREENBELT, MD. 20892
MECHANICAL: SHEFFERSON AND ASSOCIATES ENGINEERS, GREENBELT, MD. 20892
SITE: 111 SPRING STREET, SILVER SPRING, MD. 20910
RICHARD PRINCE ENGINEERS, GREENBELT, MD. 20892

MID-ATLANTIC HEADQUARTERS SEVENTH-DAY ADVENTISTS
OWNER: COLUMBIA UNION CONFERENCE CORPORATION
7710 CARROLL AVENUE TAKOMA PARK, MARYLAND 20912
ADDED BY APPENDIX NO. 2

RECORDED: PLAT #108 DATE 10-10-78
PARCEL F, TWIN KNOLLS SOUTH
COLUMBIA VILLAGE OF ORLAND MILLS
AREA 1
6TH ELECTION DISTRICT HOWARD CO., MD.
DATE: 9-10-78
0-21-78

JOB # 78-13
DATE: 9-10-78
0-21-78
SHEET 008B