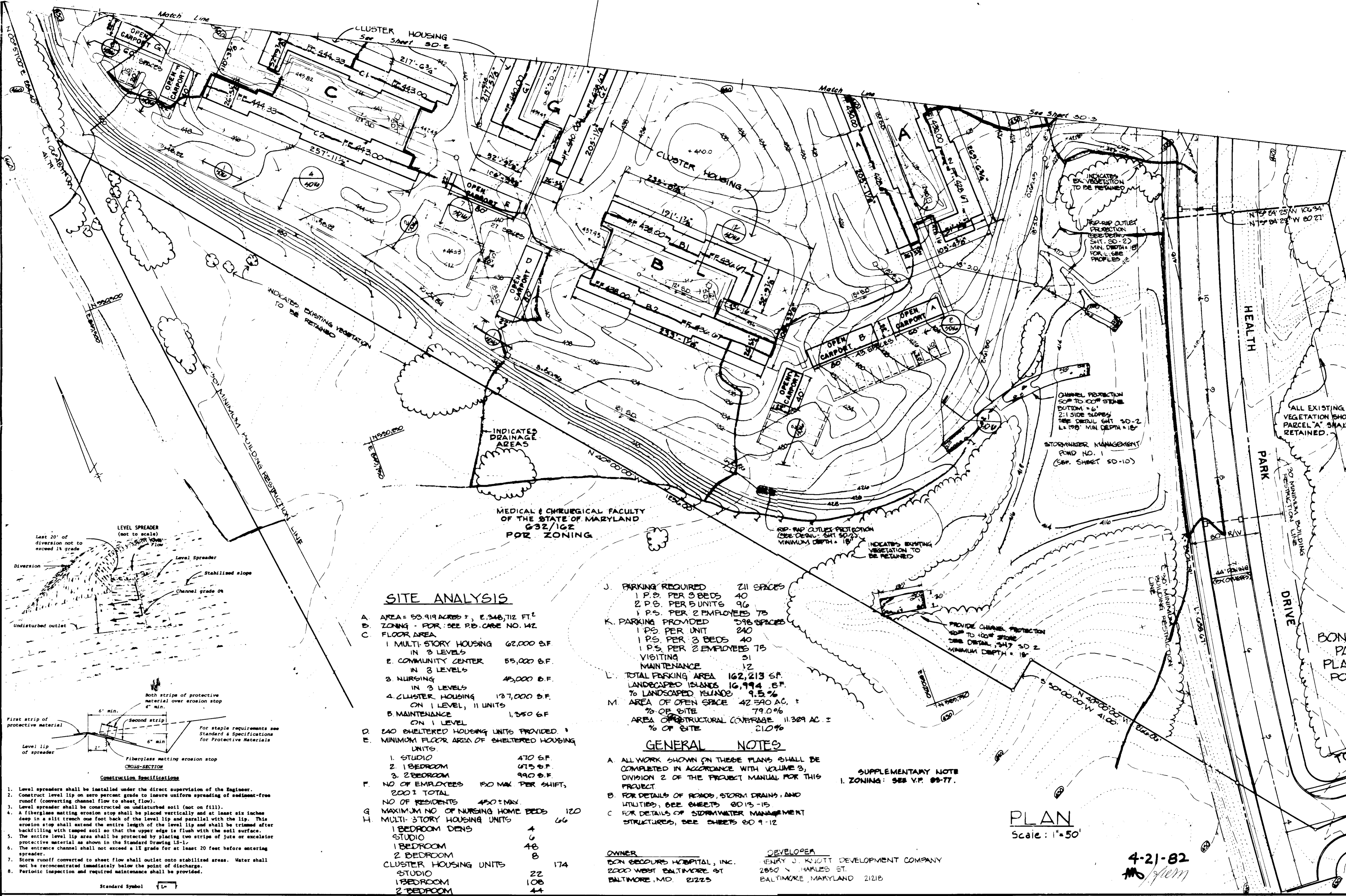


VICINITY MAP
SCALE 1" = 2640'

TOWN & COUNTRY WEST
SECTION 7, PARCEL A
PLAT 24/35
RA1 ZONING

BON SECOURS
PARCEL A
PLAT 4379
FOR ZONING



SITE ANALYSIS

- A. AREA = 53.919 ACRES ±, 2,348,712 FT²
- B. ZONING - FOR: SEE PD. CASE NO. WZ
- C. FLOOR AREA
 - 1. MULTI-STORY HOUSING 62,000 S.F. IN 3 LEVELS
 - 2. COMMUNITY CENTER 55,000 S.F. IN 3 LEVELS
 - 3. NURSING 45,000 S.F. IN 3 LEVELS
 - 4. ZILWATER HOUSING 137,000 S.F. ON 1 LEVEL, 11 UNITS
 - 5. MAINTENANCE 1,350 S.F. ON 1 LEVEL
- D. 240 SHELTERED HOUSING UNITS PROVIDED
- E. MINIMUM FLOOR AREA OF SHELTERED HOUSING UNITS
 - 1. STUDIO 470 S.F.
 - 2. 1 BEDROOM 975 S.F.
 - 3. 2 BEDROOM 990 S.F.
- F. NO. OF EMPLOYEES 150 MAX PER SHIFT, 2001 TOTAL
- G. NO. OF RESIDENTS 450 MAX
- H. MAXIMUM NO. OF NURSING HOME BEDS 120
- I. MULTI-STORY HOUSING UNITS
 - 1. 1 BEDROOM DENS 4
 - 2. STUDIO 6
 - 3. 1 BEDROOM 48
 - 4. 2 BEDROOM 8
- J. CLUSTER HOUSING UNITS 174
 - 1. STUDIO 22
 - 2. 1 BEDROOM 108
 - 3. 2 BEDROOM 44

- J. PARKING REQUIRED 211 SPACES
 - 1 P.S. PER 3 BEDS 40
 - 2 P.S. PER 5 UNITS 96
 - 1 P.S. PER 2 EMPLOYEES 75
- K. PARKING PROVIDED 298 SPACES
 - 1 P.S. PER UNIT 240
 - 1 P.S. PER 3 BEDS 40
 - 1 P.S. PER 2 EMPLOYEES 75
- L. VISITING 31
- M. MAINTENANCE 12
- N. TOTAL PARKING AREA 162,213 S.F.
- O. LANDSCAPED ISLANDS 16,794 S.F.
- P. % LANDSCAPED ISLANDS 9.5%
- Q. AREA OF OPEN SPACE 42,590 AC. ±
- R. % OF SITE 79.0%
- S. AREA OF STRUCTURAL COVERAGE 11,389 AC. ±
- T. % OF SITE 21.0%

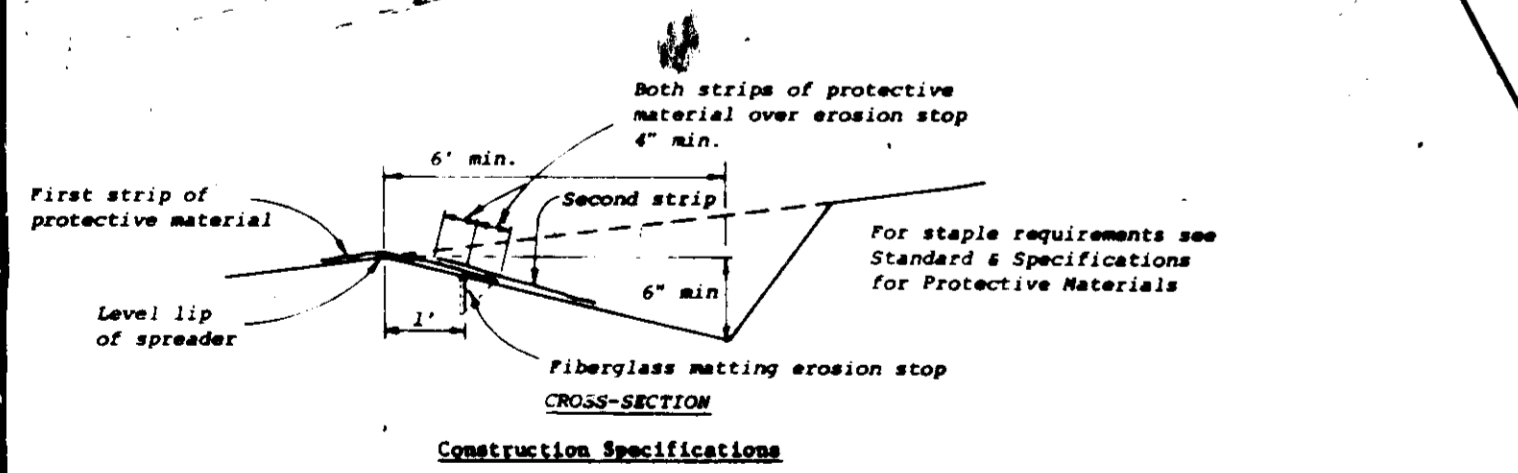
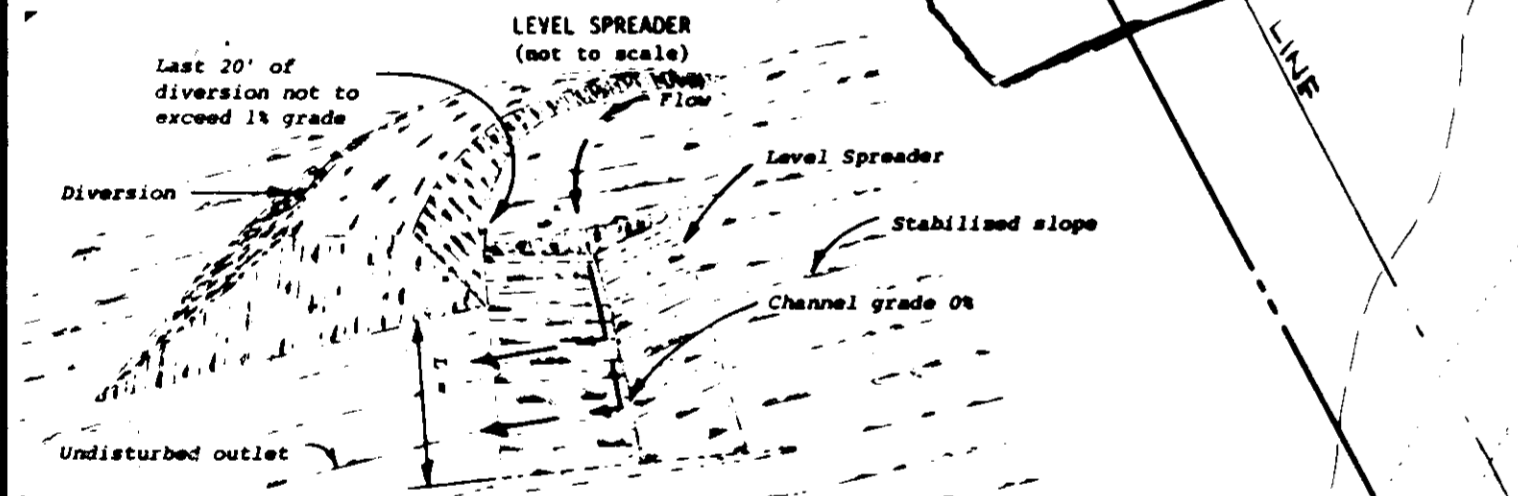
GENERAL NOTES

- A. ALL WORK SHOWN ON THESE PLANS SHALL BE COMPLETED IN ACCORDANCE WITH VOLUME 3, DIVISION 2 OF THE PROJECT MANUAL FOR THIS PROJECT
- B. FOR DETAILS OF ROADS, STORM DRAINS, AND UTILITIES, SEE SHEETS 80-15
- C. FOR DETAILS OF STORMWATER MANAGEMENT STRUCTURES, SEE SHEETS 80-9-12

SUPPLEMENTARY NOTE
I. ZONING: SEE V.P. 89-77.

PLAN
Scale: 1" = 50'

4-21-82
MS/ferm

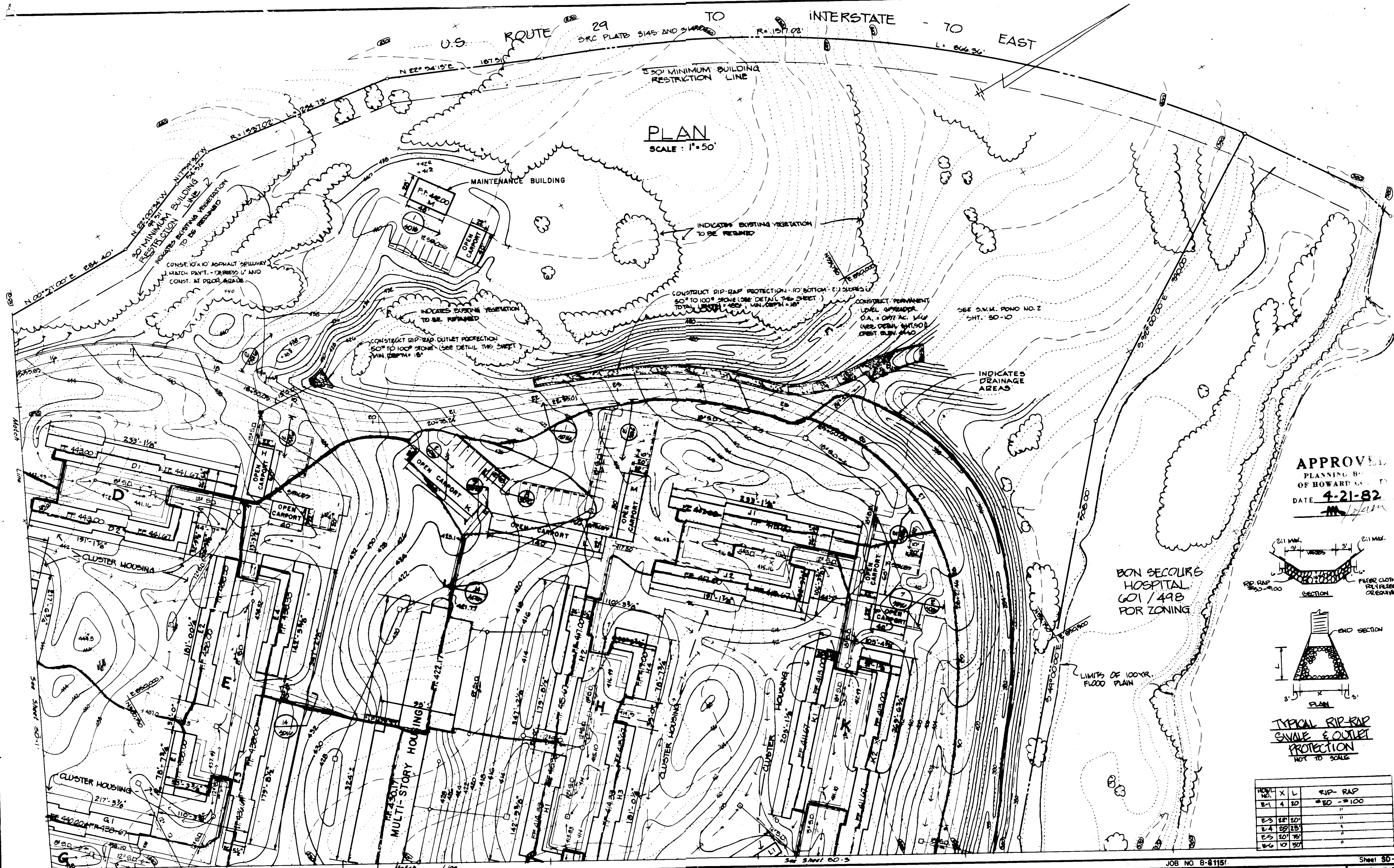


- Construction Specifications**
- Level spreaders shall be installed under the direct supervision of the Engineer.
 - Construct level lip on zero percent grade to insure uniform spreading of sediment-free runoff (converting channel flow to sheet flow).
 - Level spreader shall be constructed on undisturbed soil (not on fill).
 - A fibreglass matting erosion stop shall be placed vertically and at least six inches deep in a slit trench one foot back of the level lip and parallel with the lip. This erosion stop shall extend the entire length of the level lip and shall be trimmed after backfilling with tamped soil so that the upper edge is flush with the soil surface.
 - The entire level lip area shall be protected by placing two strips of jute or excelsior protective material as shown in the Standard Drawing 15-11.
 - The entrance channel shall not exceed a 1% grade for at least 20 feet before entering spreader.
 - Storm runoff converted to sheet flow shall outlet onto stabilized areas. Water shall not be reconcentrated immediately below the point of discharge.
 - Periodic inspection and required maintenance shall be provided.

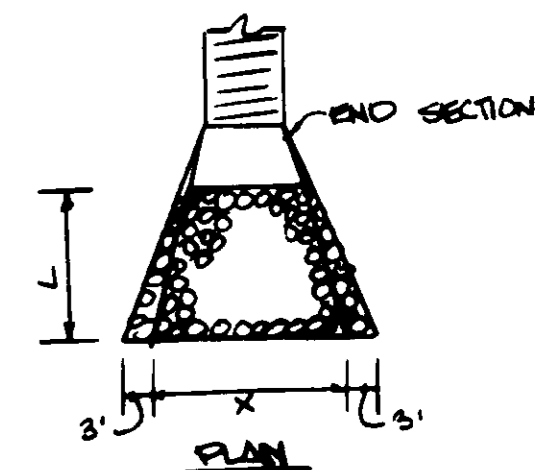
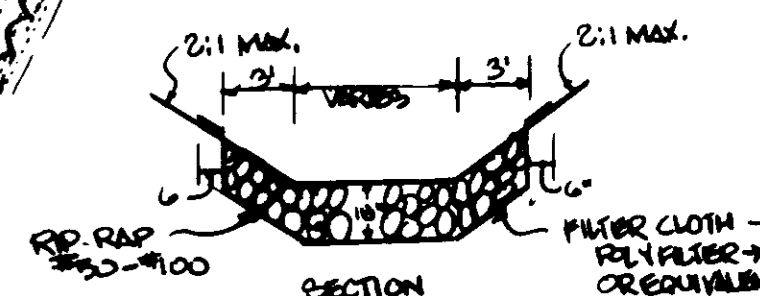
APPROVED FOR PUBLIC WATER AND ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS DIRECTOR: [Signature] DATE: 6/12/84 CHIEF, BUREAU OF ENGINEERING	APPROVED HOWARD COUNTY OFFICE OF PLANNING AND ZONING PLANNING DIRECTOR: [Signature] DATE: 6/12/84 CHIEF DIV. OF LAND DEVELOPMENT AND ZONING ADMINISTRATION	APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT COUNTY HEALTH OFFICER: [Signature] DATE: 6/12/84	Drawn by: [Signature] Checked: [Signature]	Seal: [Professional Engineer Seal]	George Evans Associates, Inc. Structural Engineers Purdum & Jeschke Civil Engineers	Cochran, Stephenson & Donkervoet Incorporated Architects 925 North Charles St. Baltimore, Md. 21201 Henry Adams Inc. Consulting Engineers		DAFT · McCUNE · WALKER INC. LAND PLANNING CONSULTANTS LANDSCAPE ARCHITECTS ENGINEERS 530 E. JOPPA ROAD TOWSON, MD. 21284 TELEPHONE: (301) 286-3333	JOB NO B-8115 SDP-82-75 Sheet 80-1 GRADING PLAN SHT. 1 OF 28 BON SECOURS HOWARD COUNTY HEALTH PARK PARCEL B-1 PARCELS 666 & 80, TAX MAP 17 2ND ELECTION DISTRICT HOWARD COUNTY, MARYLAND SDP-82-75
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U.S. ROUTE 29 TO INTERSTATE TO EAST
 ORC PLATS 3145 AND 2146D R. 137.02 L. 046.36

PLAN
 SCALE: 1"=50'



APPROVED
 PLANNING BOARD
 OF HOWARD COUNTY
 DATE 4-21-82



TYPICAL RIP-RAP
 SWALE & OUTLET
 PROTECTION
 NOT TO SCALE

NO.	X	L	RIP-RAP
B-1	4	20	#50 - #100
B-2	12	20	"
B-3	12	25	"
B-4	10	20	"
B-5	10	20	"

BON SECOURS
 HOSPITAL
 601/498
 FOR ZONING

LIMITS OF 100YR.
 FLOOD PLAN

JOB NO. B-81151 Sheet 50-2
 SHT. 2 OF 25

APPROVED FOR PUBLIC WATER, PUBLIC SEWERAGE AND ZONING.
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS.
 DIRECTOR: [Signature] DATE: 6-13-84
 CHIEF, BUREAU OF ENGINEERING: [Signature] DATE: 6-13-84

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING.
 PLANNING DIRECTOR: [Signature] DATE: 6-13-84
 CHIEF DIV. OF LAND DEVELOPMENT AND ZONING ADMINISTRATION: [Signature] DATE: 6-13-84

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS.
 HOWARD COUNTY HEALTH DEPARTMENT.
 COUNTY HEALTH OFFICER: [Signature] DATE: 6-13-84

Drawn by: [Signature]
 Checked: [Signature]
 Seal: [Professional Engineer Seal]

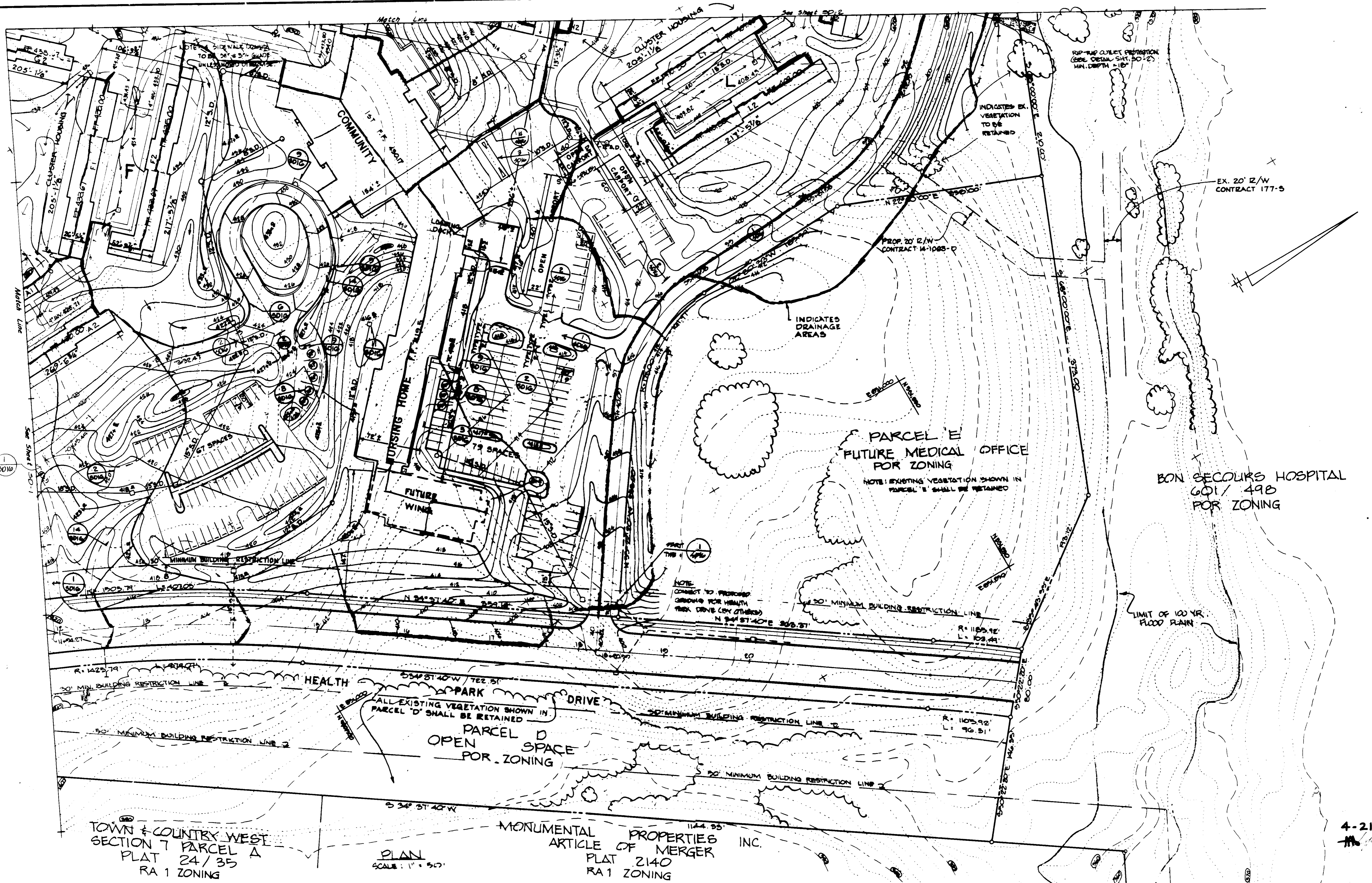
George Evans Associates, Inc.
 Structural Engineers
 Purdum & Jeschke
 Civil Engineers

Cochran, Stephenson & Donkersloot
 Incorporated Architects
 928 North Charles St. Baltimore, Md. 21201
 Henry Adams Inc.
 Consulting Engineers



DAFT McCune WALKER INC.
 LAND PLANNING CONSULTANTS
 LANDSCAPE ARCHITECTS
 ENGINEERS
 830 E. JOPPA ROAD
 TOWSON, MD. 21284
 TELEPHONE: (301) 296-3333

GRADING PLAN
BON SECOURS
 HOWARD COUNTY HEALTH PARK
 PARCEL B-1
 PARCELS 666 & 80, TAX MAP 17
 2ND ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND
 SDP-82-75



TOWN & COUNTRY WEST
SECTION 7 PARCEL A
PLAT 24/35
RA 1 ZONING

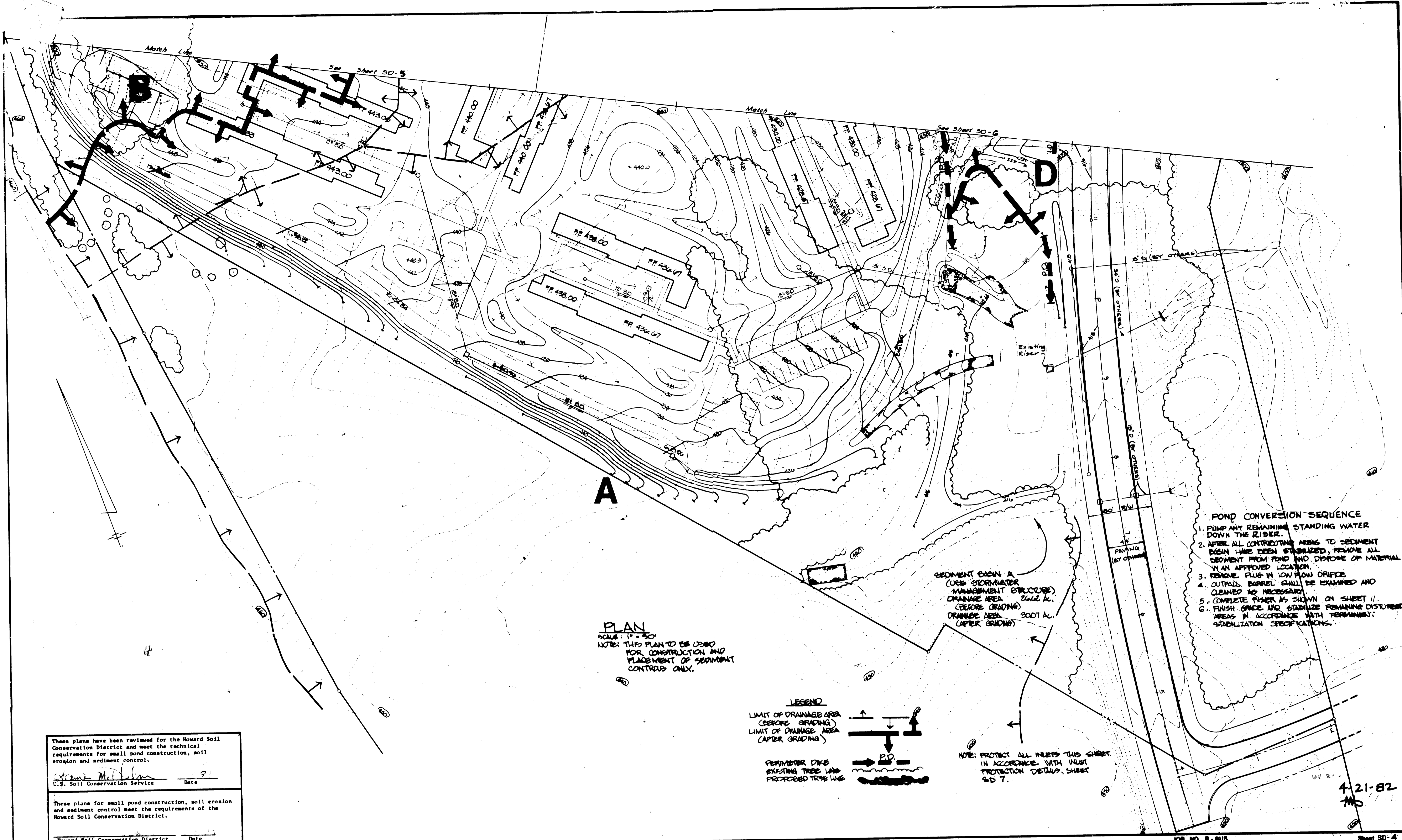
PLAN
SCALE: 1" = 50'

MONUMENTAL PROPERTIES INC.
ARTICLE OF MERGER
PLAT 2140
RA 1 ZONING

BON SECOURS HOSPITAL
601/49B
FOR ZONING

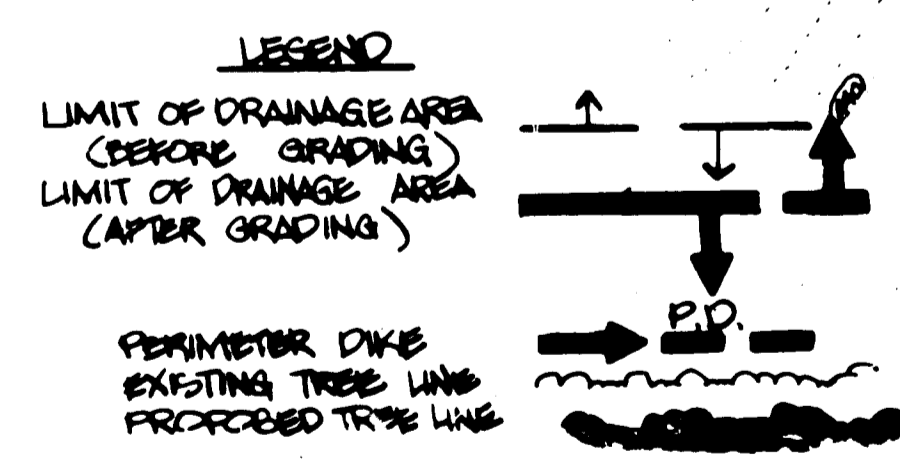
4-21-82

APPROVED FOR PUBLIC WATER, PUBLIC SEWERAGE AND ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS DIRECTOR: _____ DATE: _____ CHIEF, BUREAU OF ENGINEERING: _____ DATE: _____		APPROVED HOWARD COUNTY OFFICE OF PLANNING AND ZONING PLANNING DIRECTOR: _____ DATE: _____ CHIEF DIV OF LAND DEVELOPMENT AND ZONING ADMINISTRATION: _____ DATE: _____		APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS - HOWARD COUNTY HEALTH DEPARTMENT COUNTY HEALTH OFFICER: _____ DATE: _____		Drawn by: _____ Checked: _____ 	George Evans Associates, Inc. Structural Engineers Purdum & Jeschke Civil Engineers	Cochran, Stephenson & Donervoet Incorporated Architects 928 North Charles St. Baltimore, Md. 21201 Henry Adams Inc. Consulting Engineers		DAFT McCune Walker Inc. LAND PLANNING CONSULTANTS LANDSCAPE ARCHITECTS ENGINEERS 530 E. JOPPA ROAD TOWSON, MD. 21284 TELEPHONE: (301) 296-3333	GRADING PLAN BON SECOURS HOWARD COUNTY HEALTH PARK PARCEL B-1 PARCELS 66 & 80, TAX MAP 17 2 ND ELECTION DISTRICT HOWARD COUNTY, MARYLAND SDP-82-75
--	--	--	--	---	--	---------------------------------------	--	---	--	--	---



- POND CONVERSION SEQUENCE**
1. PUMP ANY REMAINING STANDING WATER DOWN THE RISER.
 2. AFTER ALL CONTRIBUTING AREAS TO SEDIMENT BASIN HAVE BEEN STABILIZED, REMOVE ALL SEDIMENT FROM POND AND DISPOSE OF MATERIAL IN AN APPROVED LOCATION.
 3. REMOVE PLUG IN LOW FLOW ORIFICE.
 4. OUTFALL BARREL SHALL BE EXAMINED AND CLEANED AS NECESSARY.
 5. COMPLETE RISER AS SHOWN ON SHEET II.
 6. FINISH GRACE AND STABILIZE REMAINING DISTURBED AREAS IN ACCORDANCE WITH PERMANENT STABILIZATION SPECIFICATIONS.

PLAN
 SCALE: 1" = 50'
 NOTE: THIS PLAN TO BE USED FOR CONSTRUCTION AND PLACEMENT OF SEDIMENT CONTROLS ONLY.



SEDIMENT BASIN A
 (USE STORMWATER MANAGEMENT STRUCTURE) 2000 A.L.
 (SEE GRADING) 2000 A.L.
 DRAINAGE AREA (AFTER GRADING)

NOTE: PROTECT ALL INLETS THIS SHEET IN ACCORDANCE WITH INLET PROTECTION DETAILS, SHEET SD 7.

These plans have been reviewed for the Howard Soil Conservation District and meet the technical requirements for small pond construction, soil erosion and sediment control.

[Signature]
 U.S. Soil Conservation Service Date

These plans for small pond construction, soil erosion and sediment control meet the requirements of the Howard Soil Conservation District.

Howard Soil Conservation District Date

JOB NO. B-8118 Sheet SD-4 SHT. 4 OF 25

APPROVED:
 FOR PUBLIC WATER, PUBLIC SEWERAGE AND ROADS
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS.

DIRECTOR DATE

APPROVED:
 HOWARD COUNTY OFFICE OF PLANNING AND ZONING.

PLANNING DIRECTOR DATE

APPROVED:
 FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS HOWARD COUNTY HEALTH DEPARTMENT.

[Signature] 6-12-54
 COUNTY HEALTH OFFICER DATE

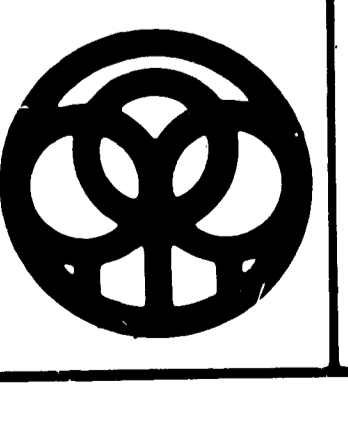
Drawn by *[Signature]* Seal
 Checked

George Evans Associates, Inc.
 Structural Engineers

Purdum & Jeschke
 Civil Engineers

Cochran, Stephenson & Donlonnet Incorporated Architects
 925 North Charles St. Baltimore, Md. 21201

Henry Adams Inc.
 Consulting Engineers



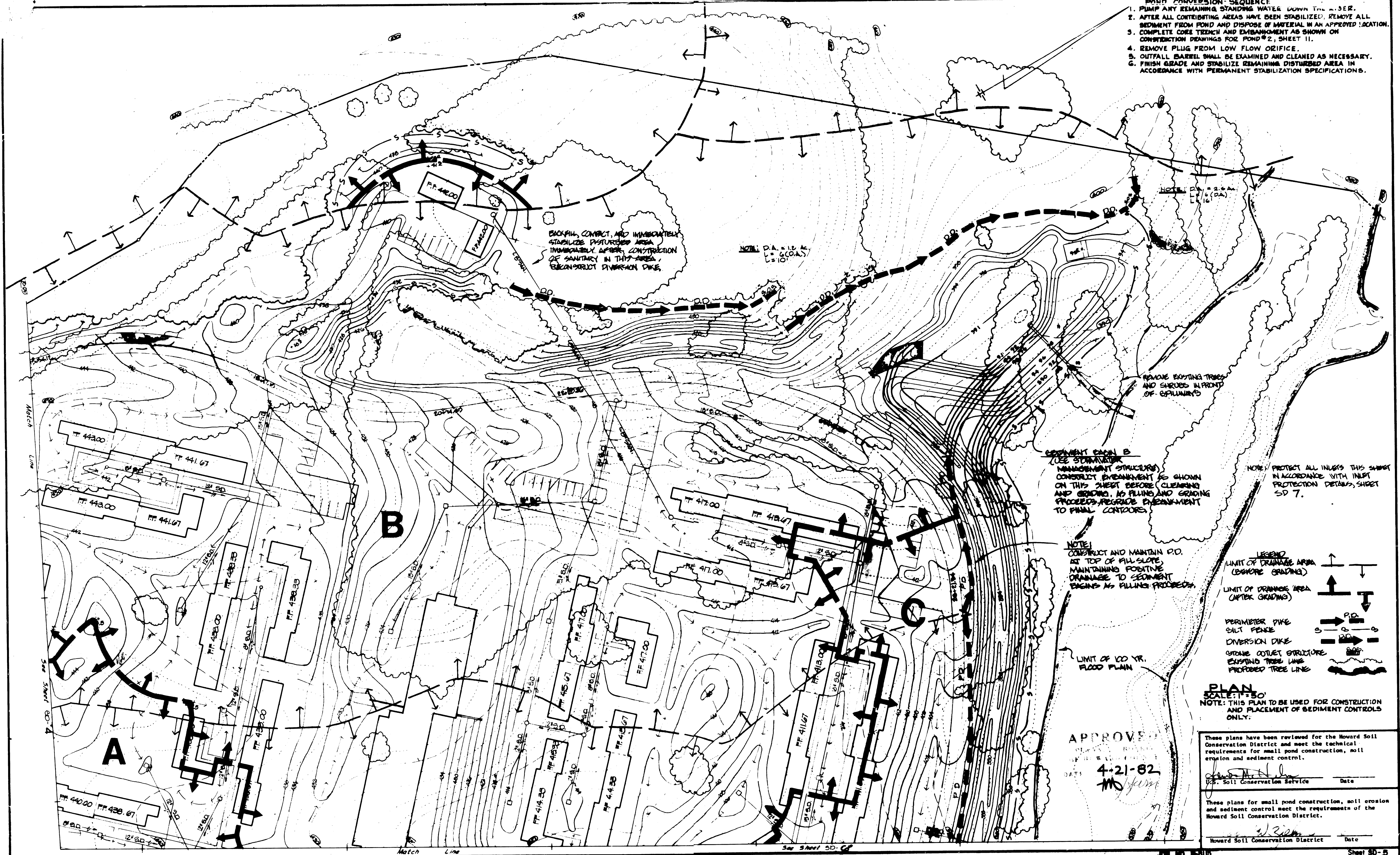
DAFT McCune Walker Inc.
 LAND PLANNING CONSULTANTS
 LANDSCAPE ARCHITECTS
 ENGINEERS

830 E. JOPPA ROAD
 TOWSON, MD. 21284
 TELEPHONE: (301) 286-3333

SEDIMENT CONTROL PLAN
BON SECOURS
 HOWARD COUNTY HEALTH PARK
 PARCEL B-1
 PARCELS 686 & 690, TAX MAP 17
 2ND ELECTION DISTRICT HOWARD COUNTY, MARYLAND
 SDP-82-75

4-21-82
[Signature]

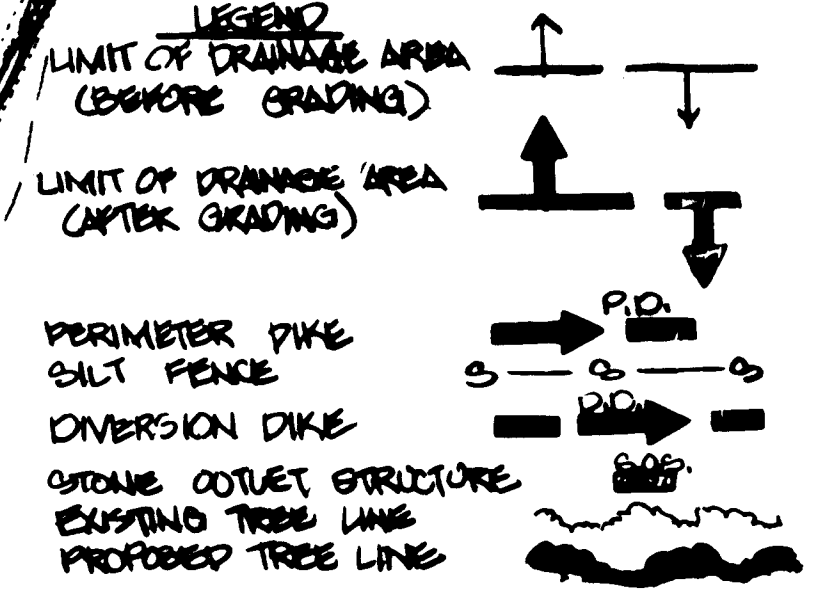
- POND CONVERSION SEQUENCE**
1. PUMP ANY REMAINING STANDING WATER DOWN THE DRAINAGE.
 2. AFTER ALL CONTRIBUTING AREAS HAVE BEEN STABILIZED, REMOVE ALL SEDIMENT FROM POND AND DISPOSE OF MATERIAL IN AN APPROVED LOCATION.
 3. COMPLETE CORE TRENCH AND EMBANKMENT AS SHOWN ON CONSTRUCTION DRAWINGS FOR POND #2, SHEET 11.
 4. REMOVE PLUG FROM LOW FLOW ORIFICE.
 5. OUTFALL BARREL SHALL BE EXAMINED AND CLEANED AS NECESSARY.
 6. FINISH GRADE AND STABILIZE REMAINING DISTURBED AREA IN ACCORDANCE WITH PERMANENT STABILIZATION SPECIFICATIONS.



SEDIMENT BASIN B (SEE STORMWATER MANAGEMENT STRUCTURES) CONSTRUCT EMBANKMENT AS SHOWN ON THIS SHEET BEFORE CLEARING AND GRADING, AS FILLING AND GRADING PROCEEDS. REGRADE EMBANKMENT TO FINAL CONTOURS.

NOTE: CONSTRUCT AND MAINTAIN P.O. AT TOP OF FILL SLOPE, MAINTAINING POSITIVE DRAINAGE TO SEDIMENT BASIN AS FILLING PROCEEDS.

NOTE: PROTECT ALL INLETS THIS SHEET IN ACCORDANCE WITH INLET PROTECTION DETAILS, SHEET SD 7.



PLAN SCALE: 1"=50'
 NOTE: THIS PLAN TO BE USED FOR CONSTRUCTION AND PLACEMENT OF SEDIMENT CONTROLS ONLY.

APPROVED
 DATE: 4-21-82
 MO

These plans have been reviewed for the Howard Soil Conservation District and meet the technical requirements for small pond construction, soil erosion and sediment control.

 T.S. Soil Conservation Service Date

These plans for small pond construction, soil erosion and sediment control meet the requirements of the Howard Soil Conservation District.

 Howard Soil Conservation District Date

APPROVED FOR PUBLIC WATER, PUBLIC SEWERAGE AND ZONING. HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS.

 DIRECTOR DATE

 CHIEF, BUREAU OF ENGINEERS DATE

APPROVED HOWARD COUNTY OFFICE OF PLANNING AND ZONING.

 PLANNING DIRECTOR DATE

 CHIEF DIV. OF LAND DEVELOPMENT DATE

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS. HOWARD COUNTY HEALTH DEPARTMENT.

 COUNTY HEALTH OFFICER DATE

Drawn by Seal
 Checked

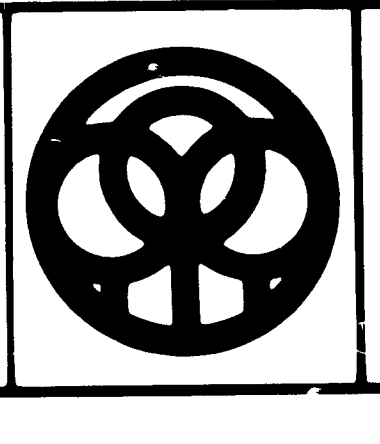
STATE OF MARYLAND
 PROFESSIONAL ENGINEER

George Evans Associates, Inc.
 Structural Engineers

Purdum & Jeschke
 Civil Engineers

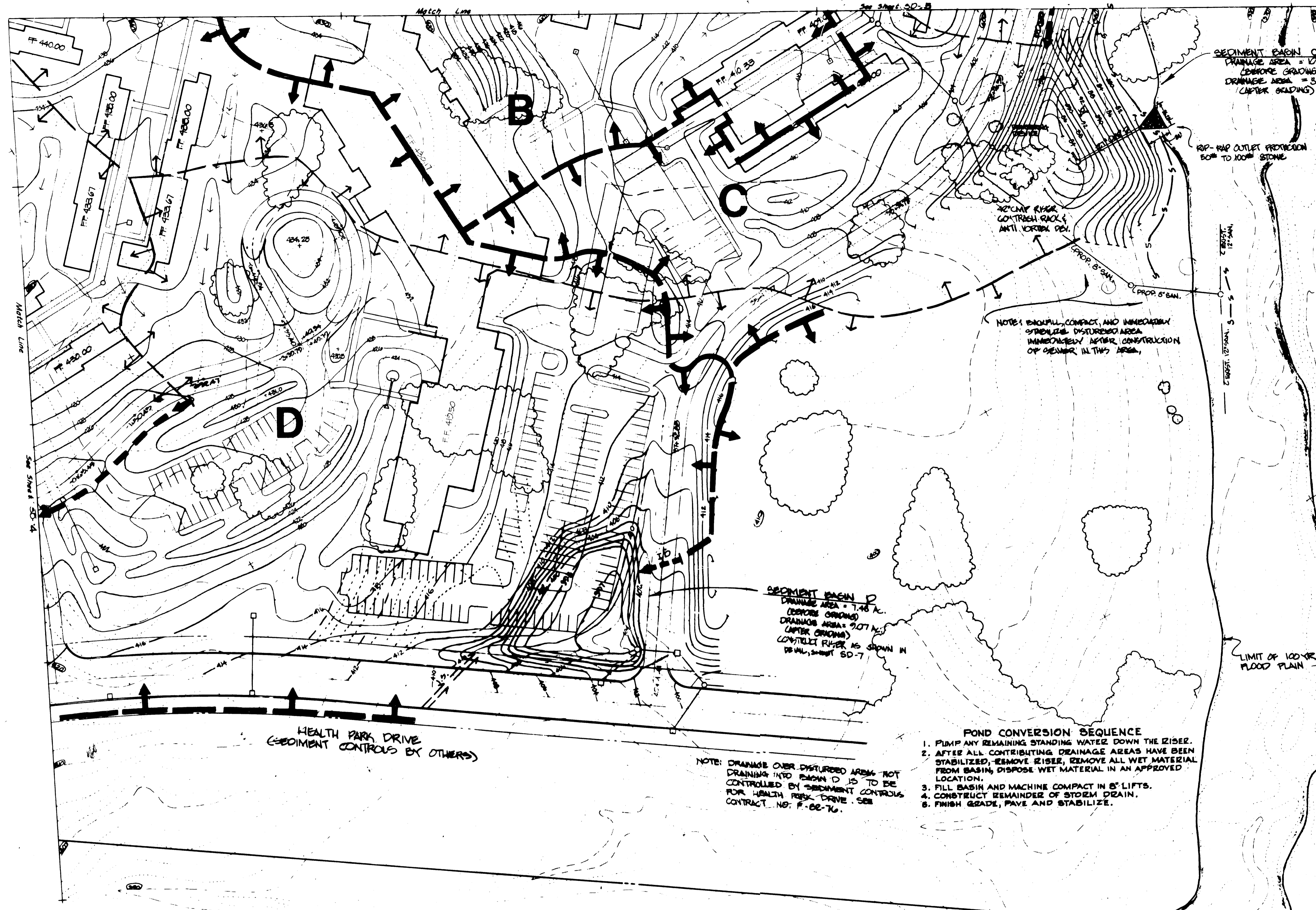
Cochran, Stephenson & Donisvoet
 Incorporated Architects
 825 North Charles St. Baltimore, Md. 21201

Henry Adams Inc.
 Consulting Engineers



DAFT · McCune · WALKER INC.
 LAND PLANNING CONSULTANTS
 LANDSCAPE ARCHITECTS
 ENGINEERS
 88 E. JOPPA ROAD
 TOWSON, MD. 21284
 TELEPHONE: (301) 286-3333

SEDIMENT CONTROL PLAN SHEET 5 OF 28
BON SECOURS
 HOWARD COUNTY HEALTH PARK
 PAVEL B-1
 PARCELS 666 & 80, TAX MAP 17
 2nd ELECTION DISTRICT HOWARD COUNTY, MARYLAND
 SDP-82-75



SEDIMENT BASIN C
 DRAINAGE AREA = 1.971 AC.
 (BEFORE GRADING)
 DRAINAGE AREA = 3.78 AC.
 (AFTER GRADING)

- POND CONVERSION SEQUENCE**
1. PUMP ANY REMAINING STANDING WATER DOWN THE RISER.
 2. AFTER ALL CONTRIBUTING AREAS HAVE BEEN STABILIZED, REMOVE ALL SEDIMENT FROM POND TO AN APPROVED LOCATION.
 3. REMOVE EMBANKMENT, RISER AND BARREL, DISPOSING OF MATERIAL IN AN APPROVED LOCATION.
 4. FINISH GRADE AND STABILIZE REMAINING DISTURBED AREAS IN ACCORDANCE WITH PERMANENT STABILIZATION SPECIFICATIONS.

NOTE: EXCAVATE, COMPACT, AND IMMEDIATELY STABILIZE DISTURBED AREA IMMEDIATELY AFTER CONSTRUCTION OF CHANNEL IN THIS AREA.

SEDIMENT BASIN D
 DRAINAGE AREA = 7.46 AC.
 (BEFORE GRADING)
 DRAINAGE AREA = 9.07 AC.
 (AFTER GRADING)
 CONTROL RISER AS SHOWN IN DETAIL, SHEET SD-7

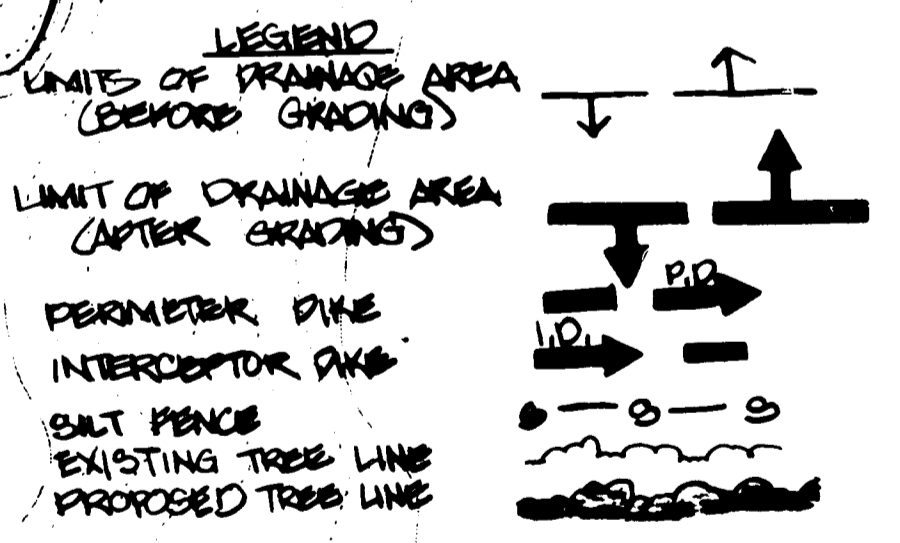
NOTE: DRAINAGE OVER DISTURBED AREA NOT DRAINING INTO BASIN D IS TO BE CONTROLLED BY SEDIMENT CONTROLS FOR HEALTH PARK DRIVE. SEE CONTRACT NO. F-62-76.

- POND CONVERSION SEQUENCE**
1. PUMP ANY REMAINING STANDING WATER DOWN THE RISER.
 2. AFTER ALL CONTRIBUTING DRAINAGE AREAS HAVE BEEN STABILIZED, REMOVE RISER, REMOVE ALL WET MATERIAL FROM BASIN, DISPOSE WET MATERIAL IN AN APPROVED LOCATION.
 3. FILL BASIN AND MACHINE COMPACT IN 6" LIFTS.
 4. CONSTRUCT REMAINDER OF STORM DRAIN.
 5. FINISH GRADE, PAVE AND STABILIZE.

NOTE: PROTECT ALL INLETS ON THIS SHEET, EXCEPT INLET TO BE USED FOR OUTLET STRUCTURE - SEDIMENT BASIN D, IN ACCORDANCE WITH INLET PROTECTION DETAILS, SHEET 7 OF 28. CONTRACT EXCEPT MUST AS SHOWN IN RISE DETAIL FOR SEDIMENT BASIN D.

HEALTH PARK DRIVE
 (SEDIMENT CONTROLS BY OTHERS)

LIMIT OF 100-YR. FLOOD PLAN



4-21-82
 M

These plans for small pond construction, soil erosion and sediment control meet the requirements of the Howard Soil Conservation District.
 Howard Soil Conservation District Date

These plans have been reviewed for the Howard Soil Conservation District and meet the technical requirements for small pond construction, soil erosion and sediment control.
 [Signature] Date

PLAN
 SCALE: 1" = 50'
 NOTE: THIS PLAN TO BE USED FOR CONSTRUCTION AND PLACEMENT OF SEDIMENT CONTROLS ONLY.

JOB NO. B-8115

Sheet SD-6

APPROVED FOR PUBLIC WATER, PUBLIC SEWERAGE AND ROADS.
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 DIRECTOR DATE

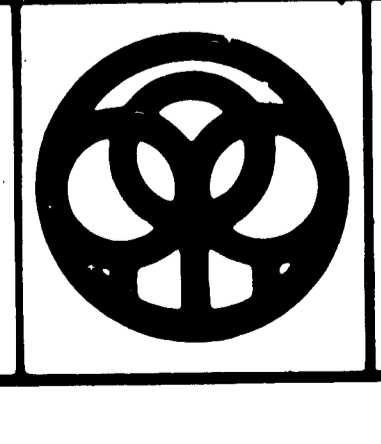
APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING.
 PLANNING DIRECTOR DATE

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS: HOWARD COUNTY HEALTH DEPARTMENT.
 COUNTY HEALTH OFFICER DATE

Drawn by Seal
 Checked

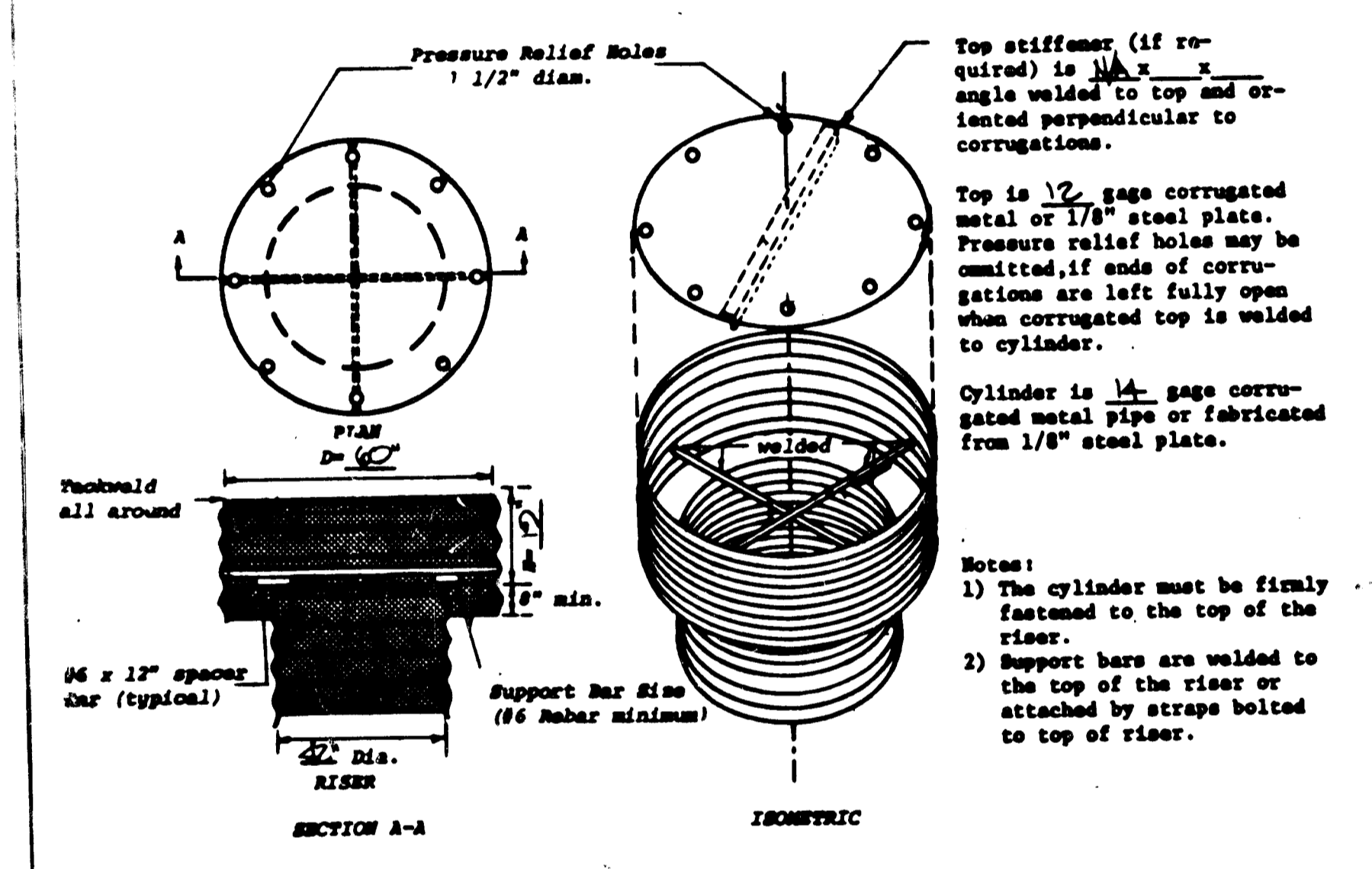
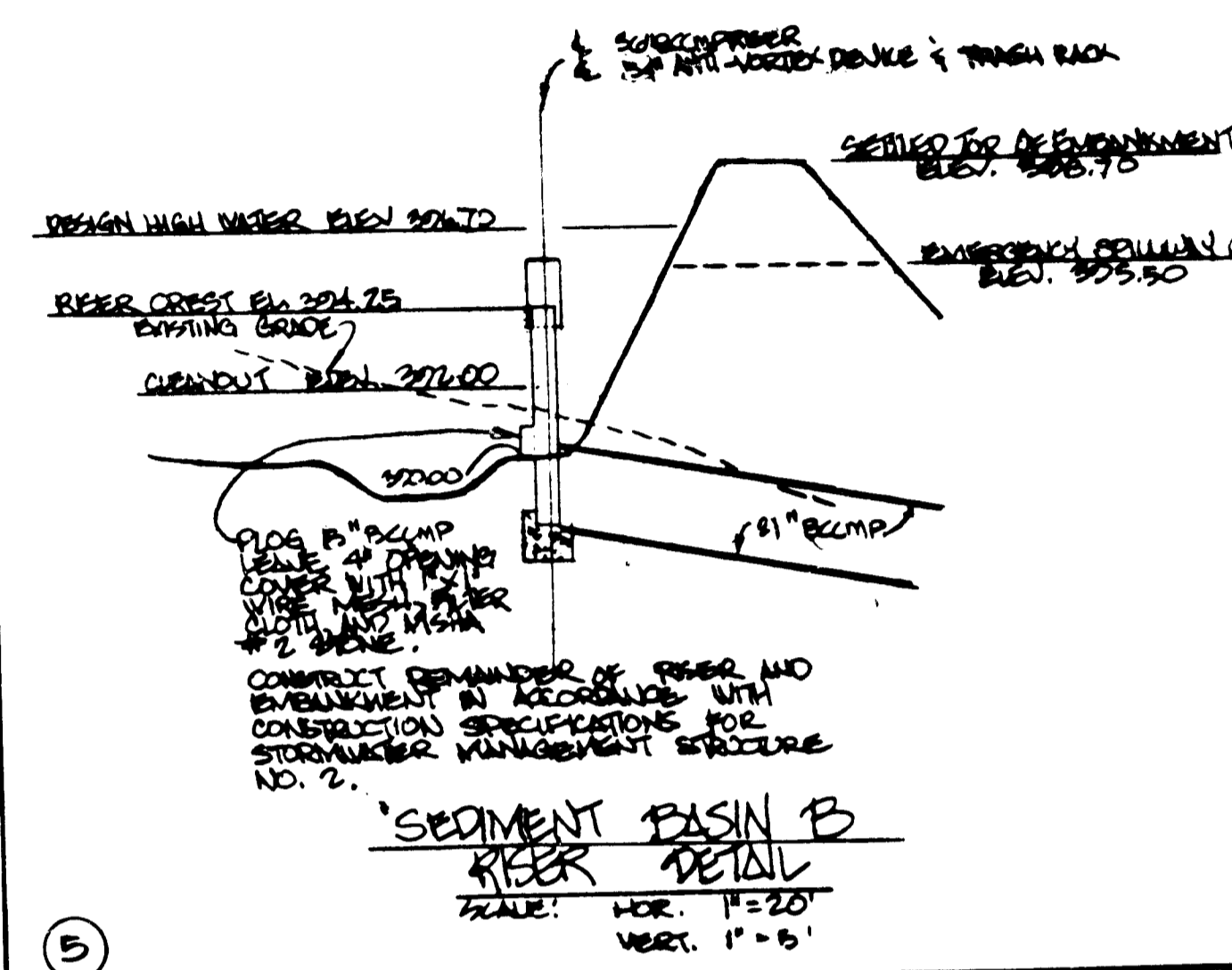
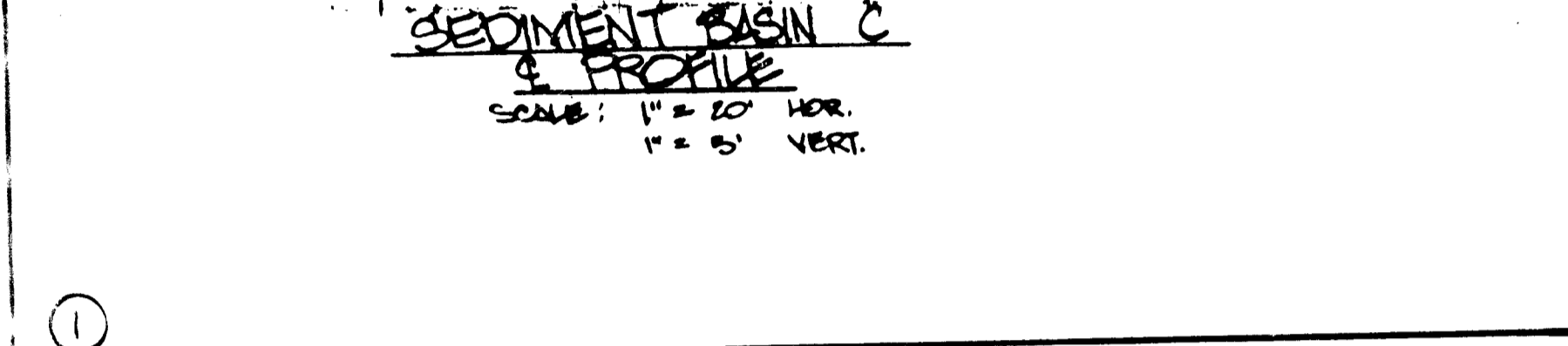
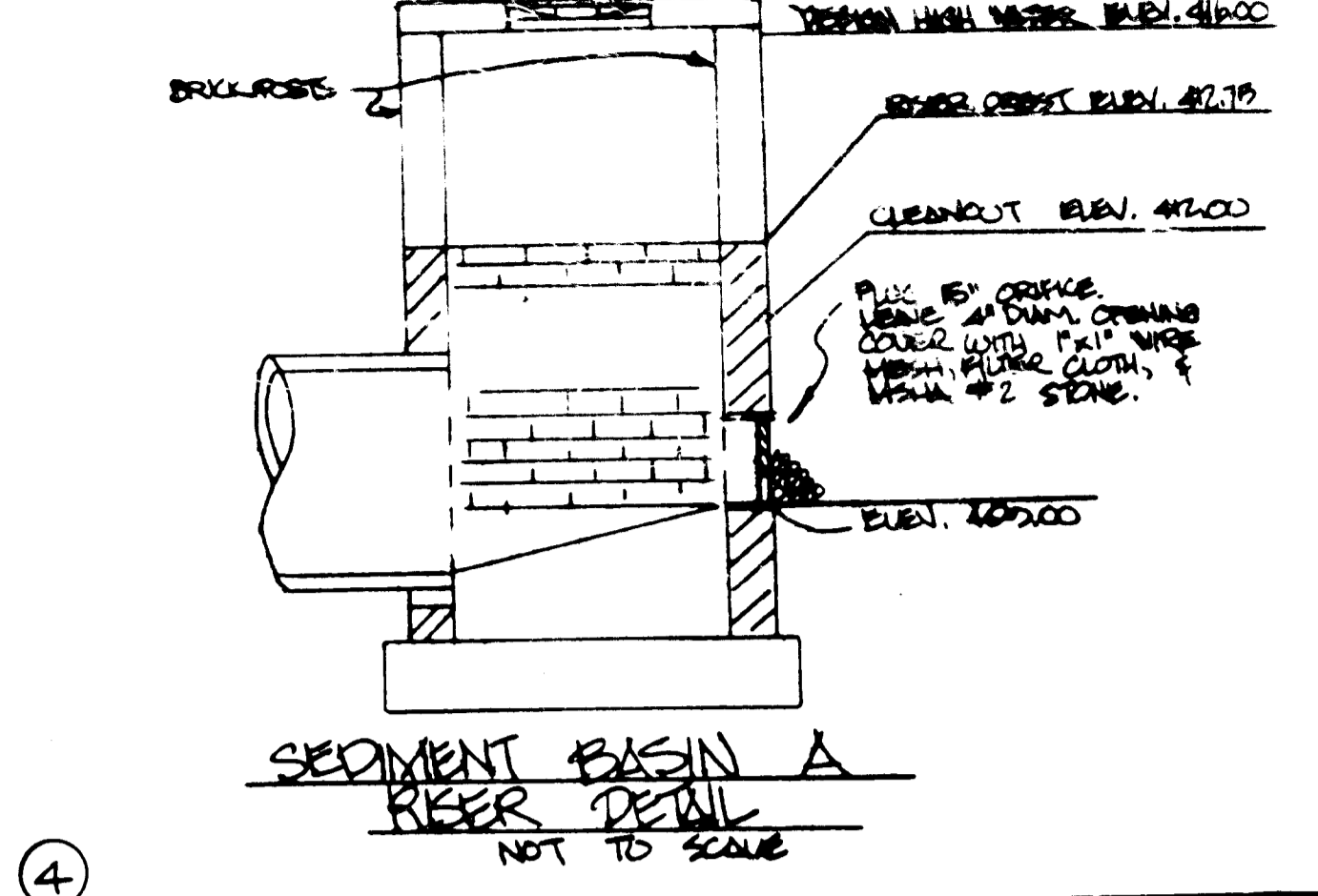
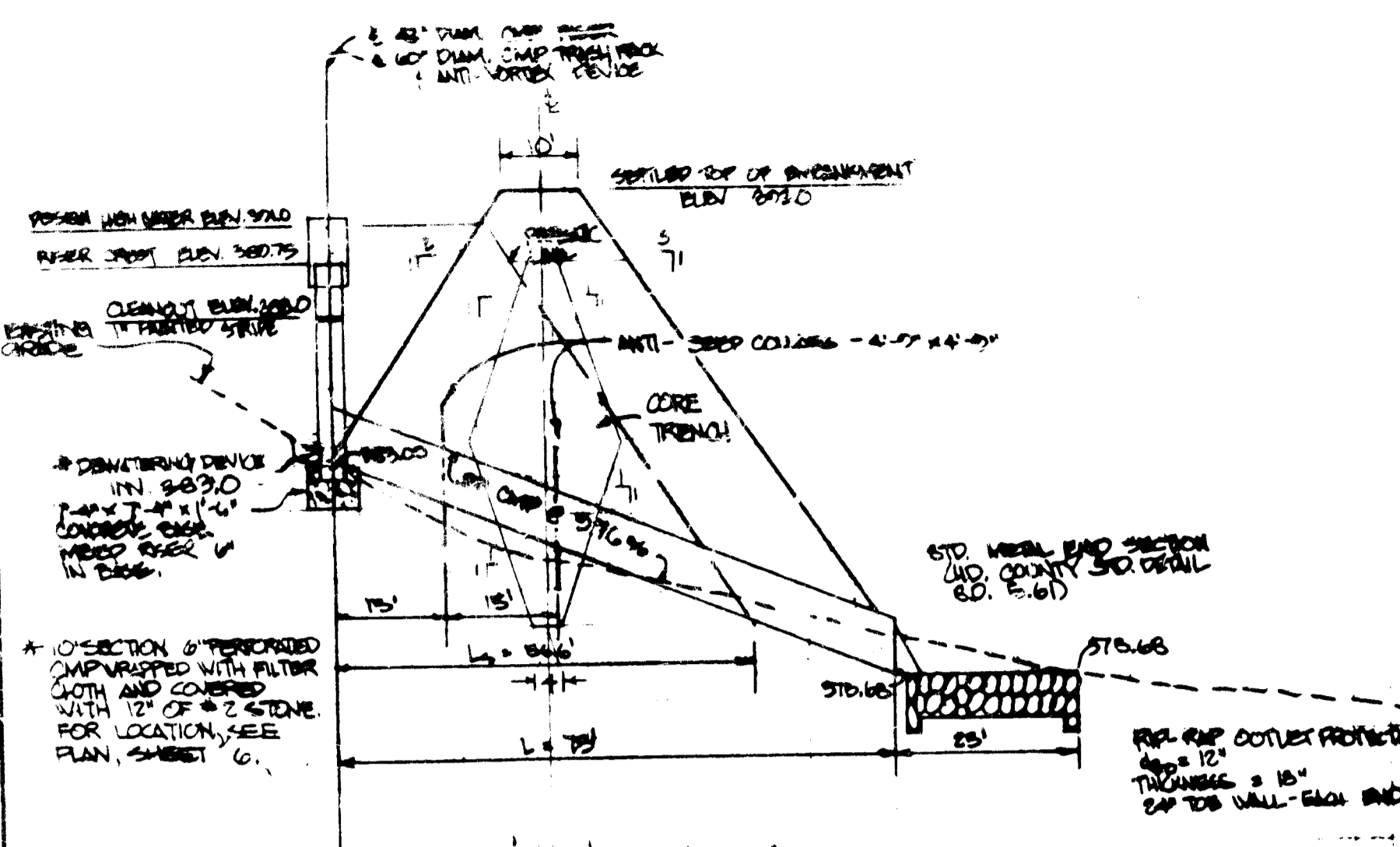
George Evans Associates, Inc.
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Cochran, Stephenson & Donahoe
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 925 North Charles St. Baltimore, Md. 21201
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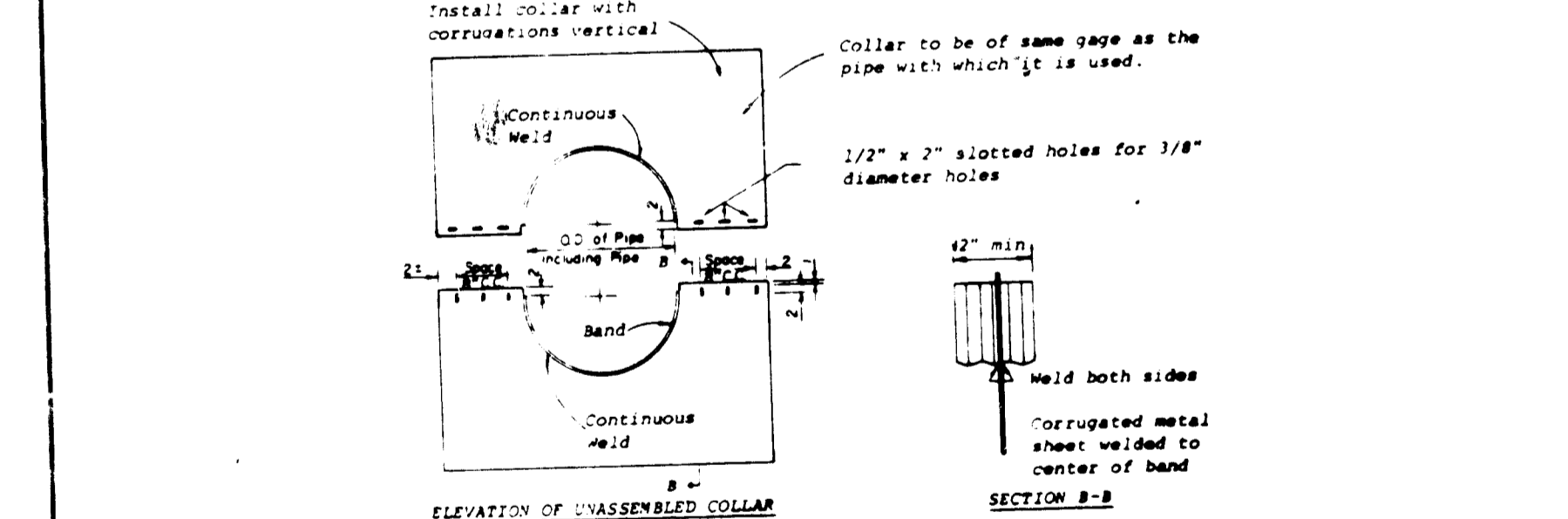


DAFT-McCUNE-WALKER INC.
 LAND PLANNING CONSULTANTS
 LANDSCAPE ARCHITECTS
 ENGINEERS
 530 E. JOPPA ROAD
 TOWSON, MD. 21286
 TELEPHONE: (301) 286-3333

SEDIMENT CONTROL PLAN SHEET 6 OF 28
BON SECOURS
 HOWARD COUNTY HEALTH PARK
 PARCEL B-1
 PARCELS 666 & 80, TAX MAP 17
 2ND ELECTION DISTRICT HOWARD COUNTY, MARYLAND
 SDP-82-75



SEDIMENT BASIN C - TRASH RACK & ANTI-VORTEX DEVICE



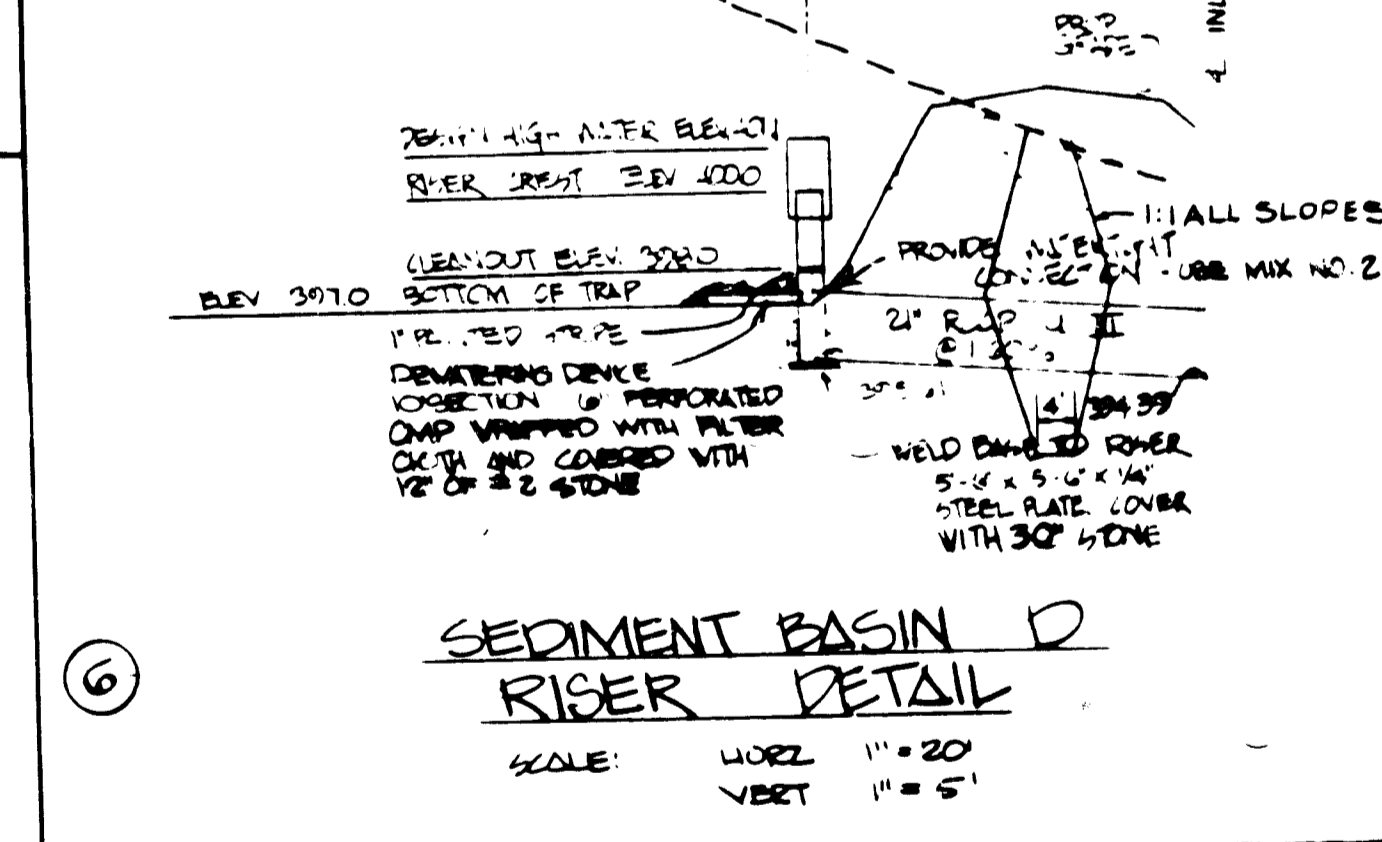
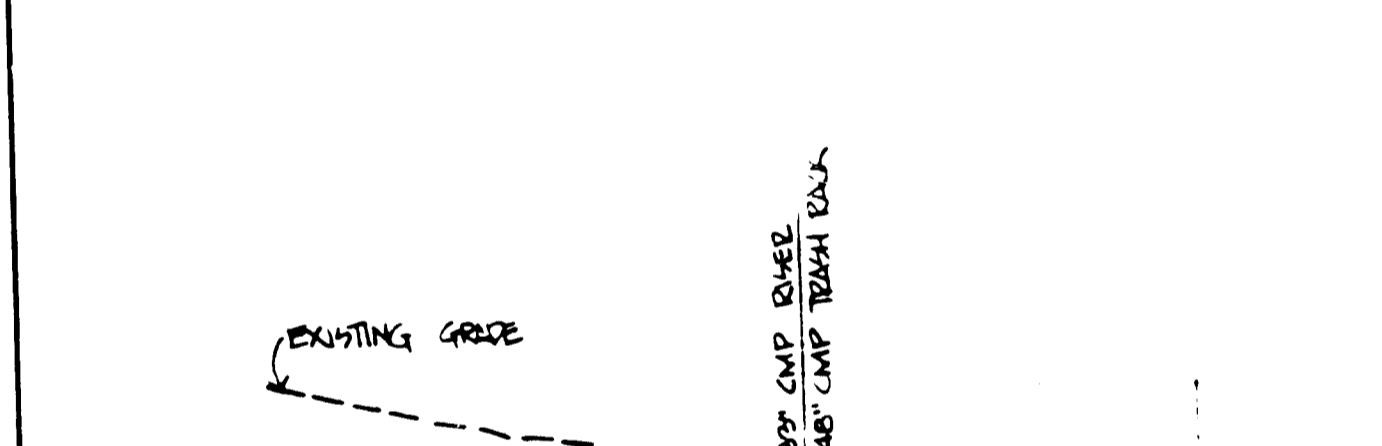
SEDIMENT BASIN C - ANTI-SLEEP COLLAR

APPROVED FOR PUBLIC WATER, PUBLIC SEWERAGE AND PUBLIC UTILITIES BY HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS. DATE: _____

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS BY HOWARD COUNTY HEALTH DEPARTMENT. DATE: 6-12-84

APPROVED FOR PUBLIC WATER, PUBLIC SEWERAGE AND PUBLIC UTILITIES BY HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS. DATE: _____

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS BY HOWARD COUNTY HEALTH DEPARTMENT. DATE: _____

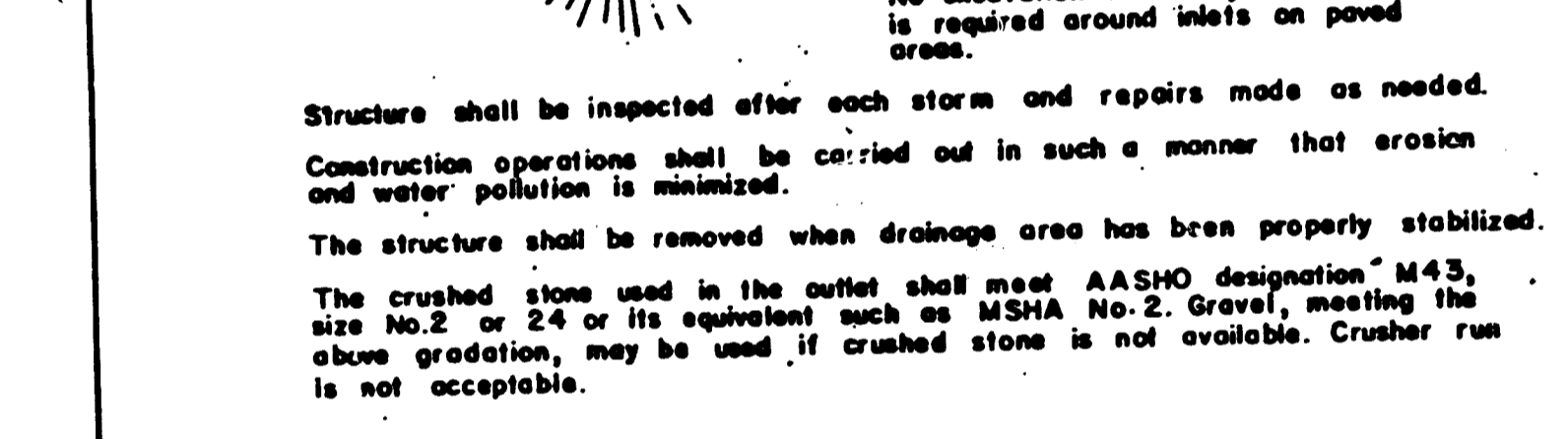
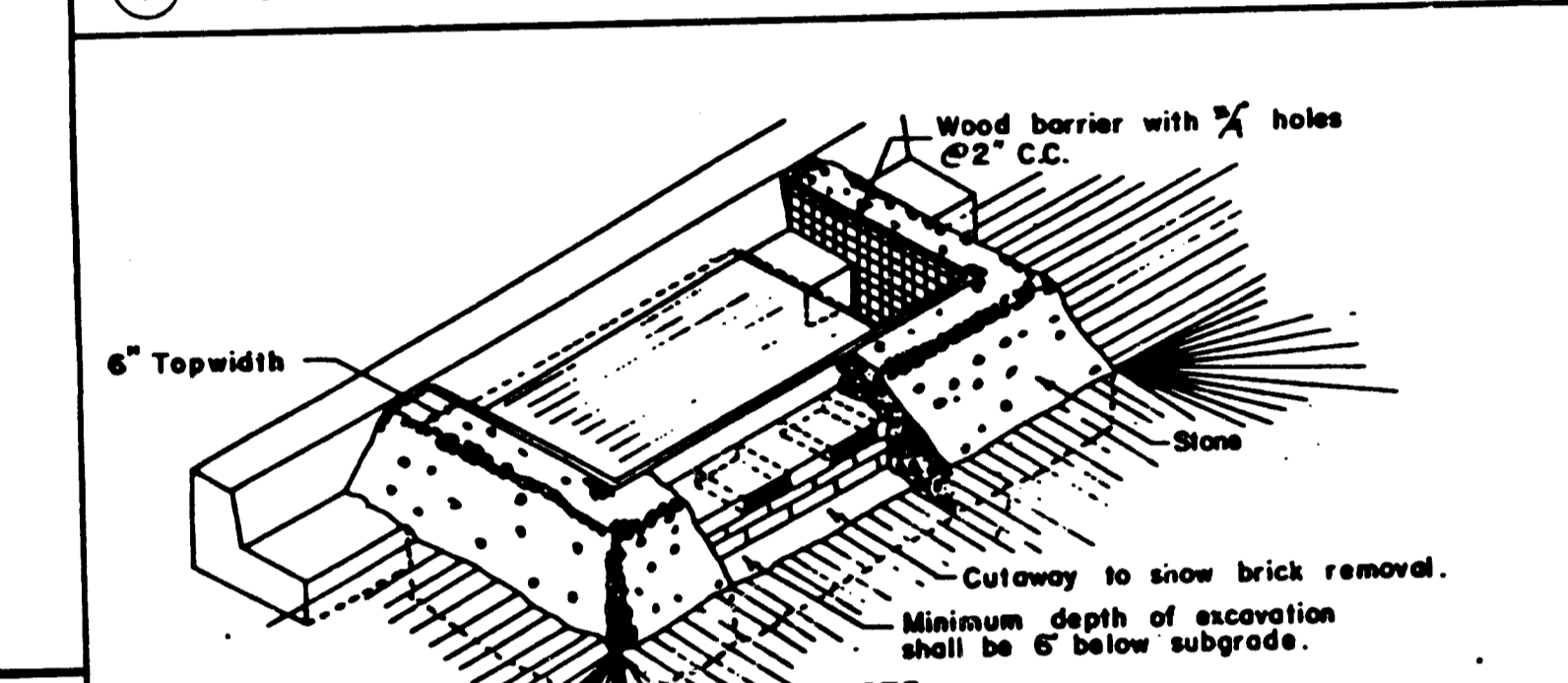
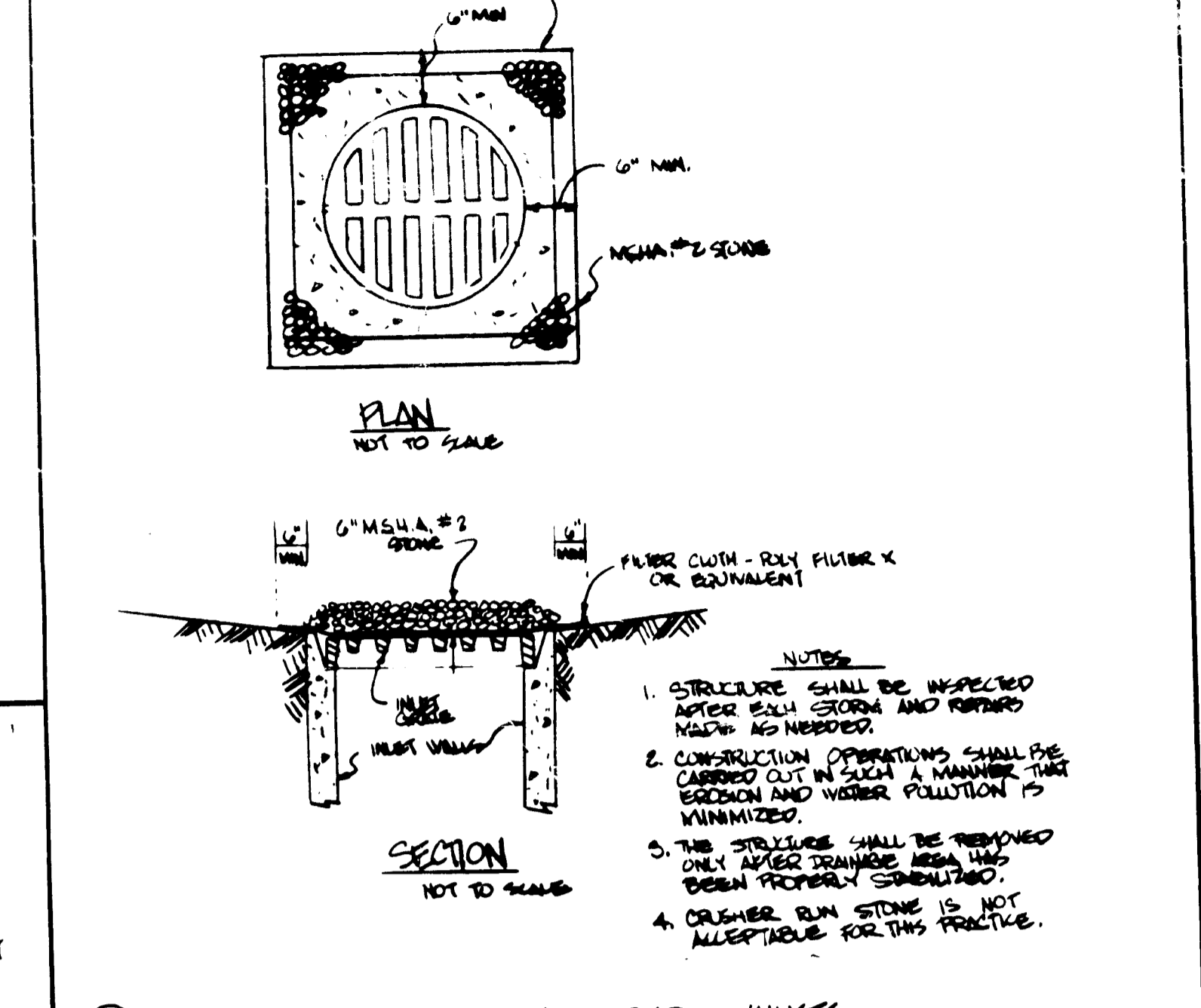


SEDIMENT BASIN D RISER DETAIL

These plans have been reviewed for the Howard Soil Conservation District and meet the technical requirements for small pond construction, soil erosion and sediment control meet the requirements of the Howard Soil Conservation District.

Howard Soil Conservation District Date: 6-5-84

U.S. Soil Conservation Service Date: 6-5-84



INLET PROTECTION FOR CORD INLETS

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 County Soil Conservation District.

Robert F. Bradley 5-10-84 (Date)

DEVELOPER'S CERTIFICATE

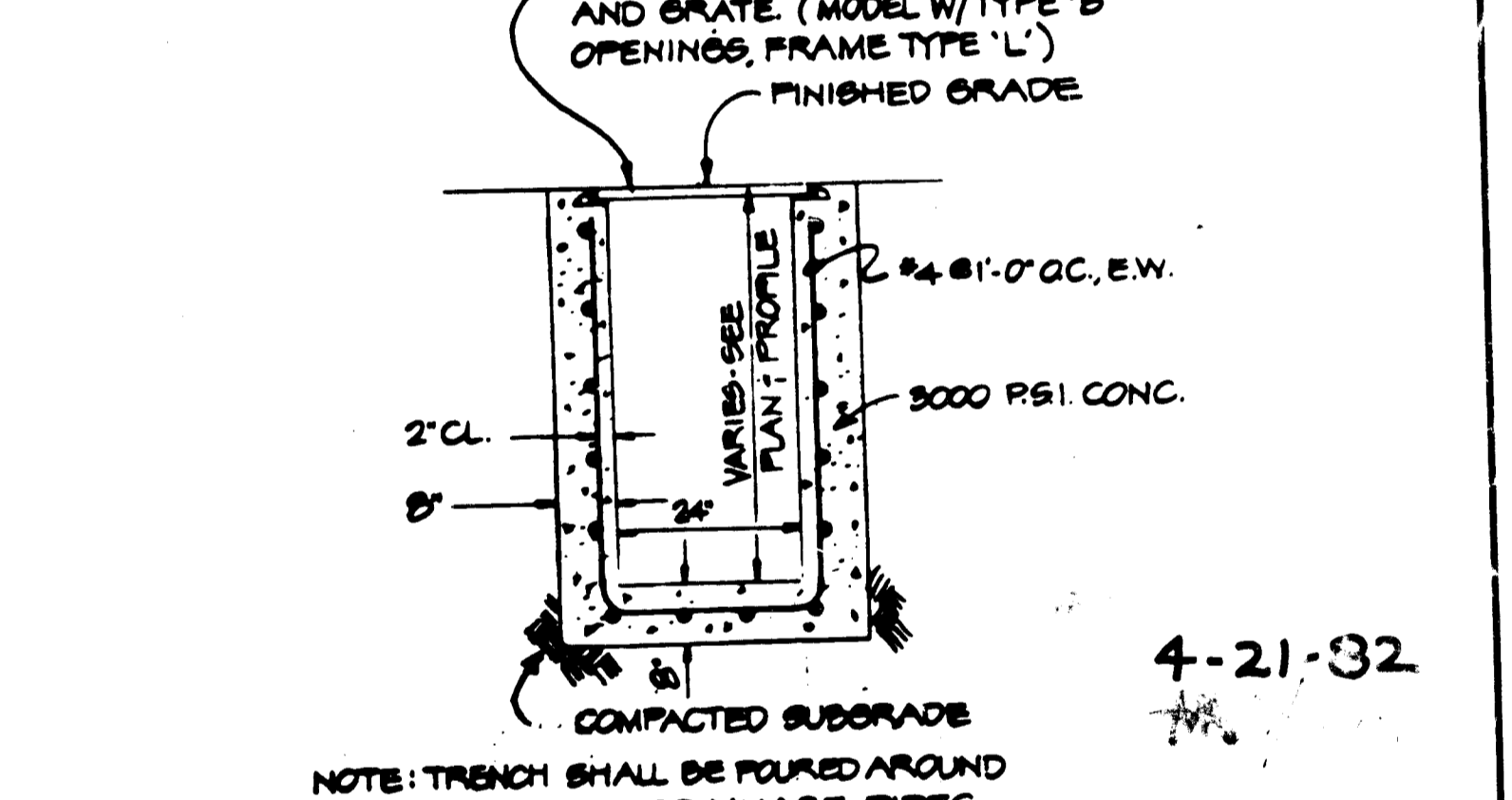
I certify that all development and construction will be done in accordance with this plan of development and plan for Erosion and Sediment Control and I also authorize periodic on-site inspection by Howard County Soil Conservation District or their authorized agents, as are deemed necessary. Deviation from this plan will not be made unless authorized by the Howard County Soil Conservation District. I also certify that any responsible personnel involved in the construction project will have a Certificate of Attendance at a Department of Natural Resources approved training program for the control of sediment and erosion before beginning the project.

Mary Regina Flaherty President 5/9/84 (Date)

Owner/Developer (Name & Title)

- SEQUENCE OF OPERATIONS
1. Notify Howard County Office Of Inspection And Permits at least 24 hours prior to beginning any construction shown hereon. (992-2435 or 992-2436)
 2. Construct stabilized construction entrance at entrance to site from Town And Country Boulevard. Clear and grub for sediment controls only.
 3. Construct Sediment Basins A, B, C, and D as shown on Sediment Control Plan. Construct storm drain and connect to storm drain in Health Park Drive as necessary to construct Sediment Basin D. Construct remainder of sediment controls.
 4. Clear and grub site.
 5. Rough grade site.
 6. Stabilize site in accordance with Temporary Seeding Specifications, this sheet.
 7. Install utilities and curb and gutter.
 8. Construct buildings, finish grade Loop Road and Entrance Road, install base, and lay base course of paving.
 9. Finish grade and stabilize disturbed areas.
 10. Remove sediment controls with the approval of the Howard County Office Of Inspection And Permits. (992-2435 or 992-2436)
 11. Finish grade remaining disturbed areas and stabilize in accordance with Permanent Seeding Specifications, this sheet. Lay surface course of paving. Complete storm water management structures as shown on Storm Water Management Plans.
 12. Maintain all newly stabilized areas as required.

- TEMPORARY SEEDING SPECIFICATIONS
1. Soil Preparation - Apply 2,000 pounds/acre or 46 pounds/1,000 square feet of Pulverized Dolomitic Limestone, or its equivalent, and 1,000 pounds/acre or 23 pounds/1,000 square feet of 10-10-10 fertilizer, or its equivalent. Harrow or disc, lime and fertilizer into the soil to a depth of 2-3 inches.
 2. Seeding - (a) Application - Seed shall be applied uniformly with a cyclone seeder, drill, cultipacker seeder, or hydro seeder on a firm, moist, seed bed. Kentucky 31 shall be applied at the rate of 30 pounds/acre or 0.69 pounds/1,000 square feet. The seed bed shall be firmed following seeding operation with a cultipacker. (b) Mulching - Immediately after seeding, uniformly mulch seeded areas with unweathered small grain straw at the rate of 1 1/2 to 2 tons/acre or 70-90 pounds/1,000 square feet. (c) Asphalt Mulch Tie Down - Upon completion of mulching operation apply emulsified asphalt (M.S.-2) at the rate of 4.44 gallons/1,000 square feet. (d) Maintenance - Periodic inspections shall be made of all seeded areas and all failures shall be repaired as required. If soil moisture is deficient, adequate water will be supplied until a uniform growth has been obtained.



TRENCH DRAIN DETAIL

- GENERAL NOTES
1. All sediment controls shall be constructed in accordance with details shown hereon and in accordance with U.S. D.A. Soil Conservation Service Standards And Specifications for soil erosion and sediment control in developing areas.
 2. All sediment controls shall remain in place until all contributing drainage areas are stabilized.
 3. All inlets, except as noted, shall be protected immediately after construction in accordance with inlet protection details this sheet.
 4. All interceptor dikes shall be reconstructed after paving and maintained daily until contributing drainage areas have been stabilized.
 5. All sediment controls shall be inspected and maintained by the contractor on a daily basis.
 6. SITE ANALYSIS: TOTAL AREA OF IMPERVIOUS SURFACE: 11,329 ACRES TOTAL AREA TO BE REVEGETATED: 42,981 ACRES

APPROVED FOR PUBLIC WATER, PUBLIC SEWERAGE AND PUBLIC UTILITIES BY HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS. DATE: _____

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS BY HOWARD COUNTY HEALTH DEPARTMENT. DATE: 6-12-84

APPROVED FOR PUBLIC WATER, PUBLIC SEWERAGE AND PUBLIC UTILITIES BY HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS. DATE: _____

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS BY HOWARD COUNTY HEALTH DEPARTMENT. DATE: _____

Drawn by: _____ Seal: _____

Checked: _____

George Evans Associates, Inc. Structural Engineers

Purdum & Jeschke Civil Engineers

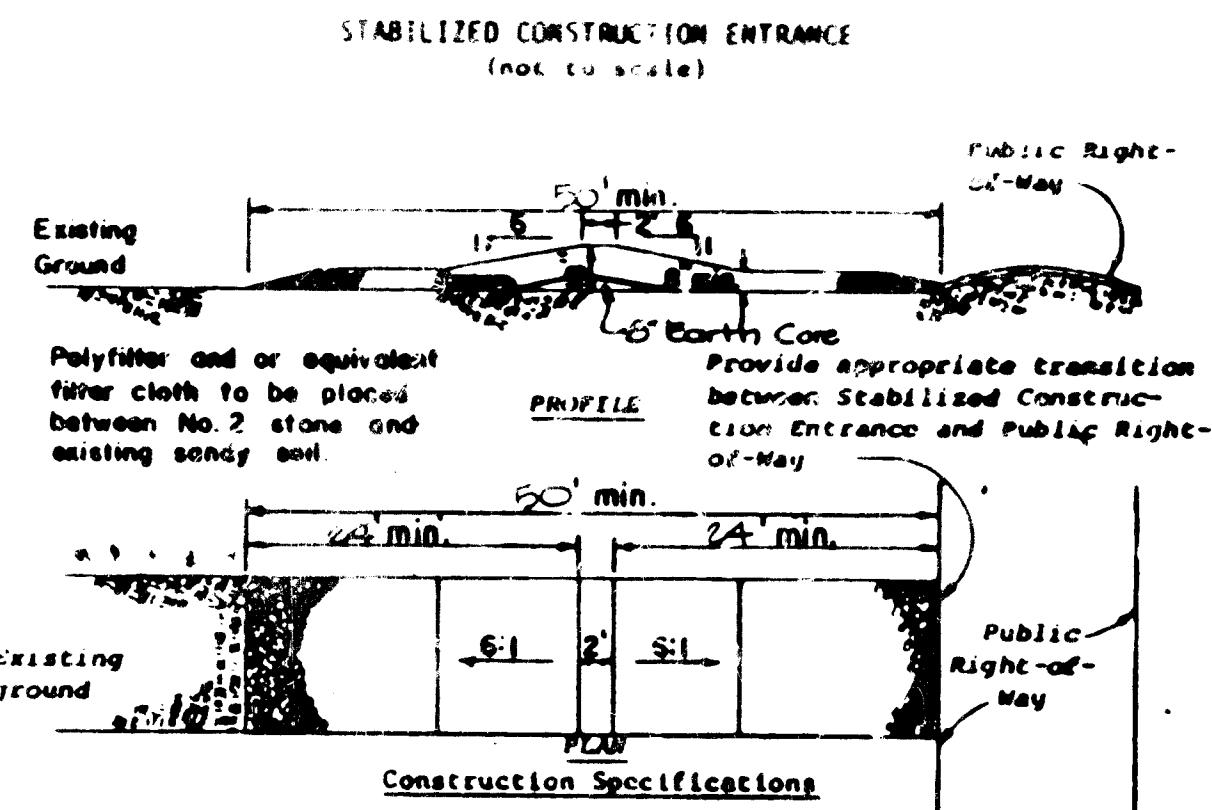
Cochran, Stephenson & Donkervout Incorporated Architects 925 North Charles St. Baltimore, Md. 21201

Henry Adams Inc. Consulting Engineers

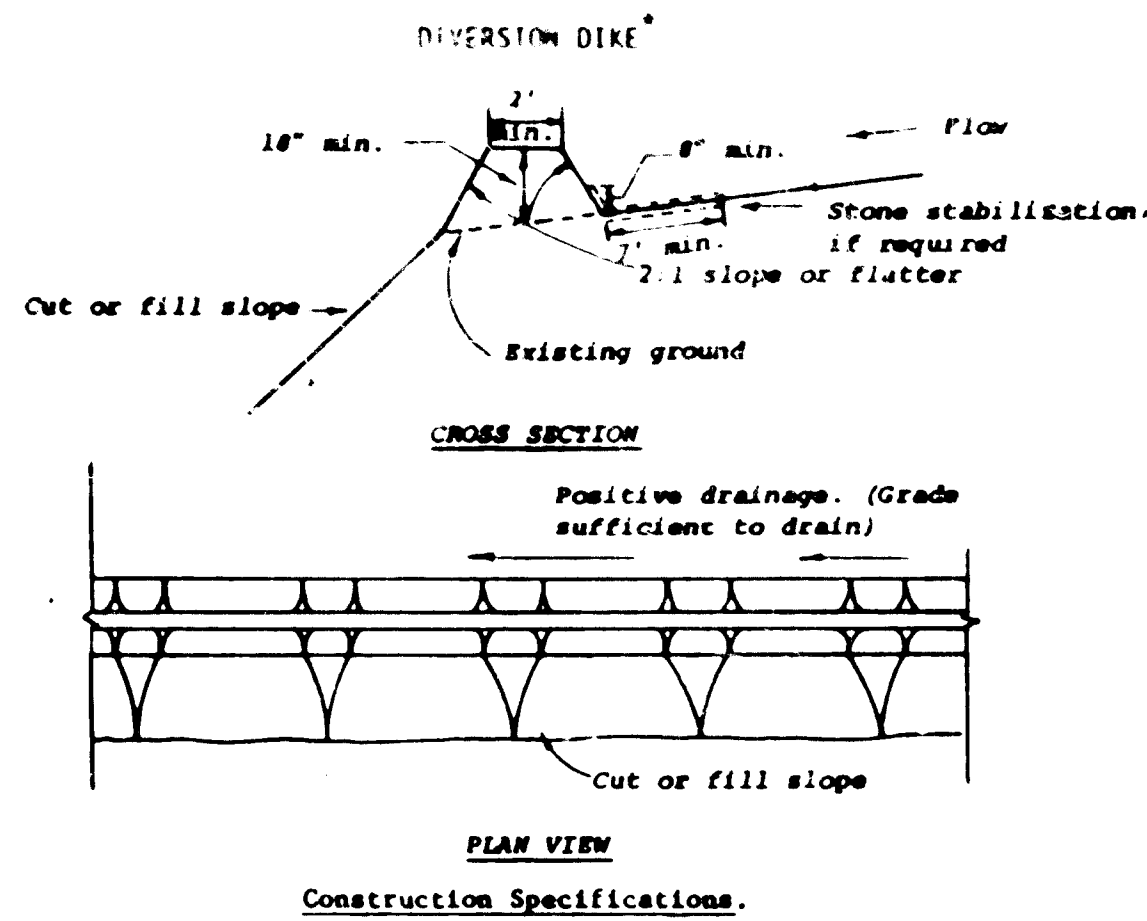
DAFT-McCUNE-WALKER, INC. LAND PLANNING CONSULTANTS LANDSCAPE ARCHITECTS ENGINEERS 1301 E. JOPLIN ROAD TOWSON, MD 21284 TELEPHONE: (301) 296-3333 4501 TWIN KNOTS ROAD SUITE 100 COLUMBIA, MD 21046 TELEPHONE: WASH. (301) 296-3333

SEDIMENT CONTROL DETAILS SHEET 7 OF 28

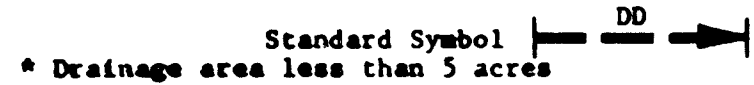
BON SECOURS HOWARD COUNTY HEALTH PARK PARCEL B-1 PARCELS 666 & 80 TAX MAP 17 2ND ELECTION DISTRICT HOWARD COUNTY, MARYLAND SDP-82-75



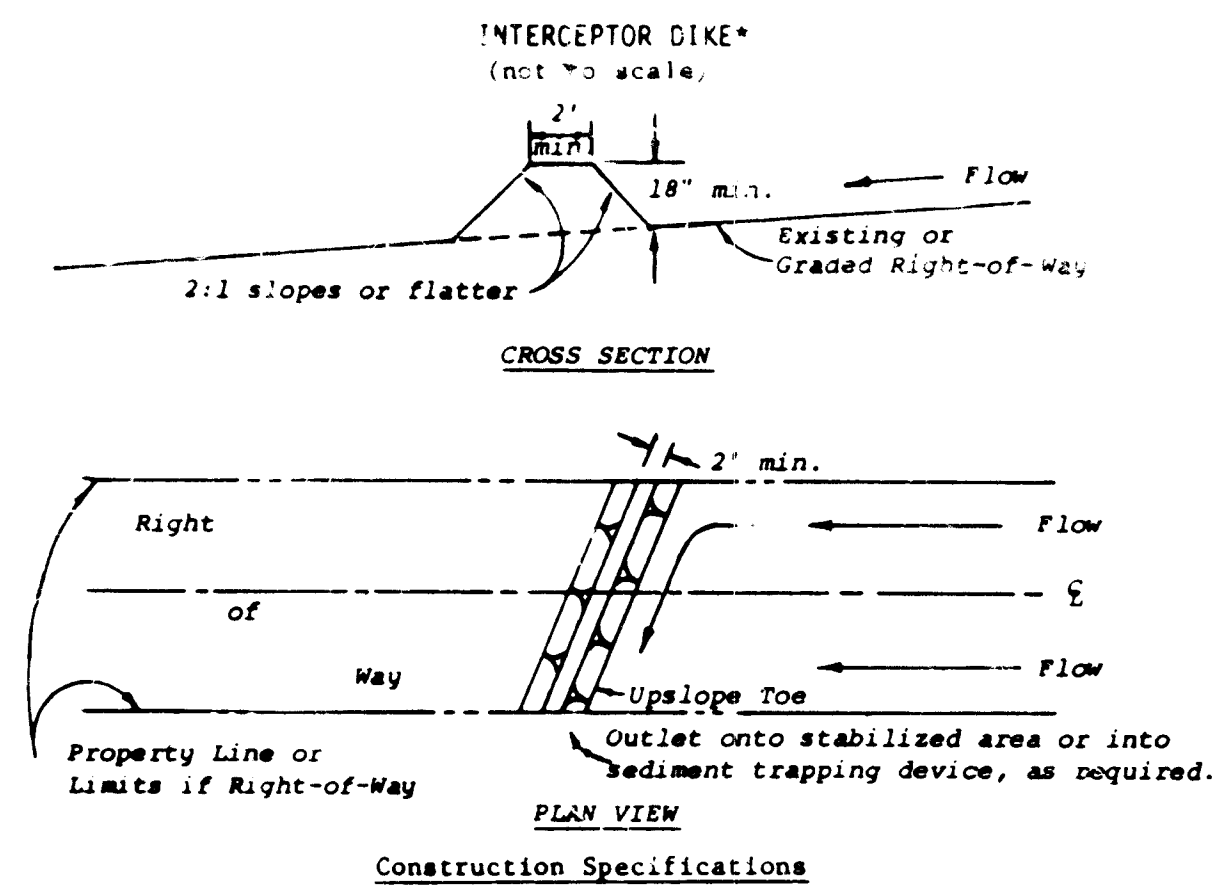
- Construction Specifications**
- Stone size - Use MSHA size No. 2 (2-1/2" to 1") or AASHTO designation M43, size No. 2 (2-1/2" to 1-1/2"). Use crushed stone.
 - Length - As effective, but not less than 7.5 feet.
 - Thickness - Not less than eight (8) inches.
 - Width - Not less than full width of all points of ingress or egress.
 - 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 storm drain, ditch, or watercourse through use of sand bags, gravel, boar's or other approved methods.
 - Maintenance - The entrance shall be maintained in a condition which will prevent tracking or flowing of sediment onto public right-of-way. This may require periodic top dressing with additional stone as conditions demand and repair and/or cleanout of any measures used to trap sediment. All sediment spilled, dropped, washed or tracked onto public right-of-way must be removed immediately.



- Construction Specifications**
- All dikes shall be machine compacted.
 - All diversion dikes shall have positive drainage to an outlet.
 - A. Diverted runoff from a protected or stabilized area shall outlet directly to an undisturbed stabilized area or into a level spreader or grade stabilization structure.
 - B. Diverted runoff from a disturbed or exposed upland area shall be conveyed to a sediment trapping device such as a sediment trap or a sediment basin or to an area protected by any of these practices.
 - Stabilization, as specified by the plans, shall be: (1) in accordance with Standard and Specifications for Grassed Waterway, and the area to be stabilized shall be the channel (flow area); or (2) the flow area shall be lined with stone that meets MSHA size No. 2 or AASHTO M43 size No. 2 or 24 which is placed in a 3 inch thick layer and pressed into the soil. The area covered by the stone shall be as shown on the drawing above.
 - Periodic inspection and required maintenance shall be provided.



* Drainage area less than 5 acres

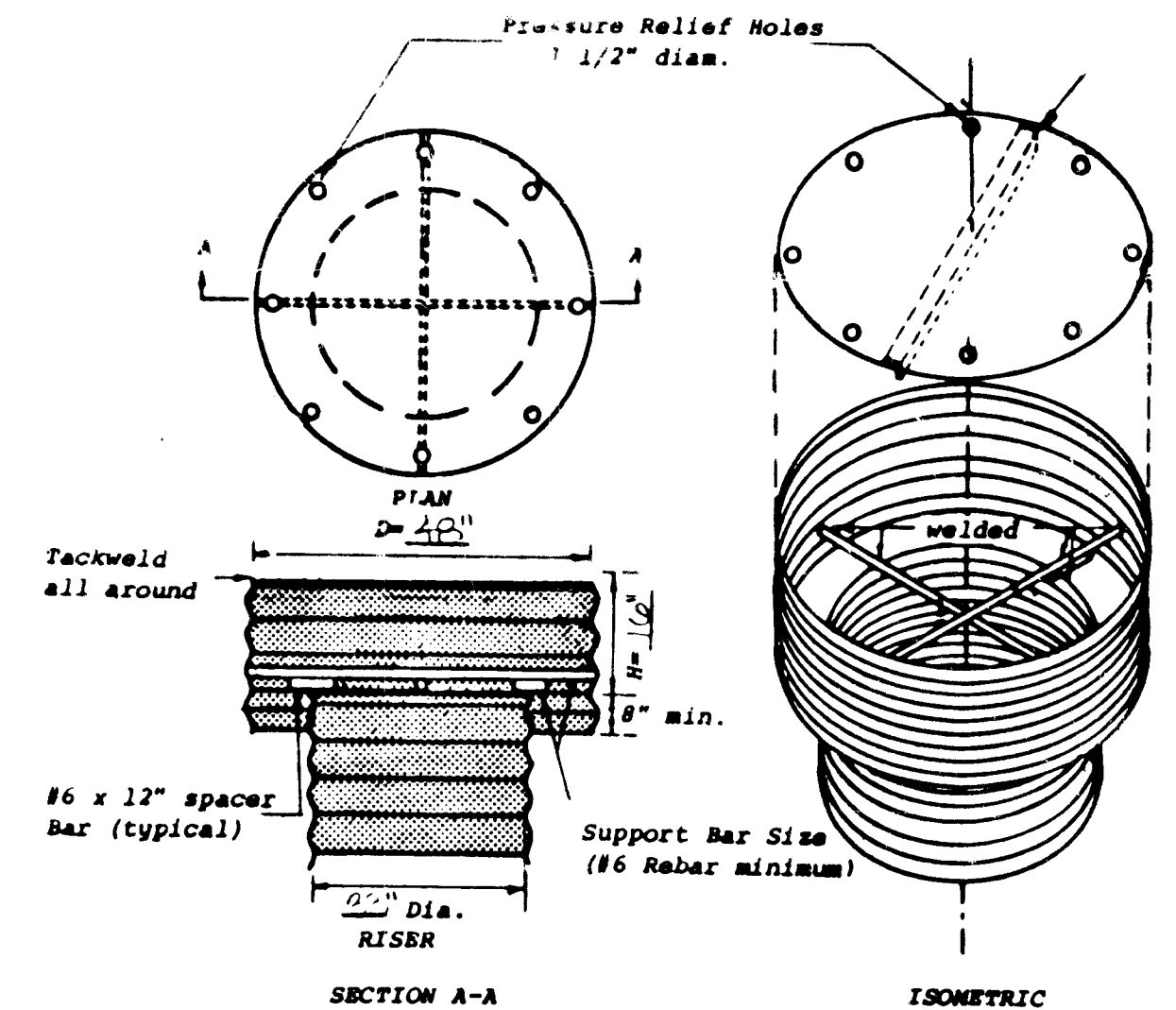


- Construction Specifications**
- All dikes shall be machine compacted.
 - All interceptor dikes shall have positive drainage to an outlet.
 - Top width may be wider and side slopes may be flatter if desired to facilitate crossing by construction traffic.
 - Field location should be adjusted as needed to utilize a stabilized safe outlet.
 - Interceptor dikes shall have an outlet that functions with a minimum of erosion. Runoff shall be conveyed to a sediment trapping device such as a sediment trap or sediment basin when either the interceptor dike channel or the drainage area above the dike are not adequately stabilized.
 - Stabilization, as specified by the plans, shall be: (1) in accordance with Standard and Specifications for Grassed Waterway, and the area to be stabilized shall be the channel (flow area); or (2) the flow area shall be lined with stone that meets MSHA size No. 2 or AASHTO size No. 2 or 24 which is placed in a 3 inch thick layer and pressed into the soil. The area covered by the stone shall be as shown on Standard Drawing DD-1.
 - Periodic inspection and required maintenance must be provided.



* Drainage area less than 5 acres.

⑤ INTERCEPTOR DIKE



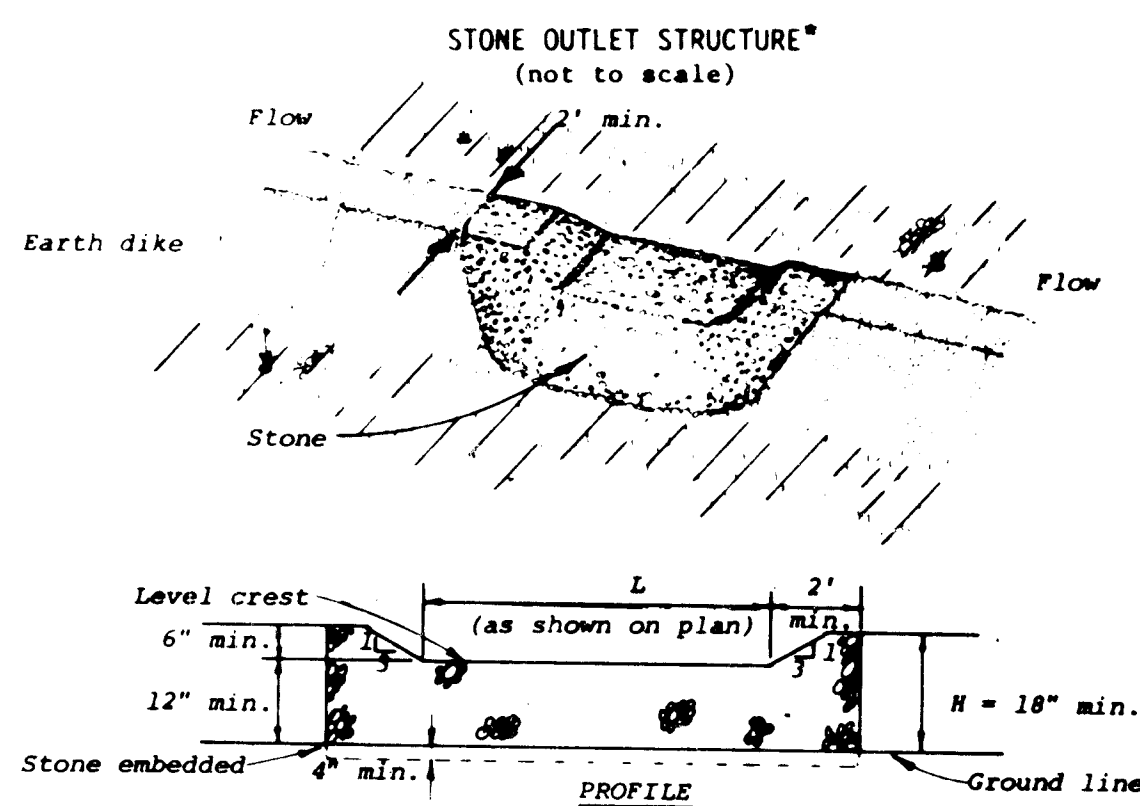
- Notes:**
- The cylinder must be firmly fastened to the top of the riser.
 - Support bars are welded to the top of the riser or attached by straps bolted to top of riser.

Top stiffener (if required) is $\frac{1}{4} \times \frac{1}{4} \times$ angle welded to top and oriented perpendicular to corrugations.
Top is 12 gage corrugated metal or 1/8" steel plate. Pressure relief holes may be omitted, if ends of corrugations are left fully open when corrugated top is welded to cylinder.
Cylinder is 14 gage corrugated metal pipe or fabricated from 1/8" steel plate.

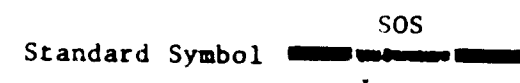
⑦ SEDIMENT BASIN
CONCENTRIC TRASH RACK AND ANTI-VORTEX DEVICE
(not to scale)

PERMANENT STABILIZATION SPECIFICATIONS

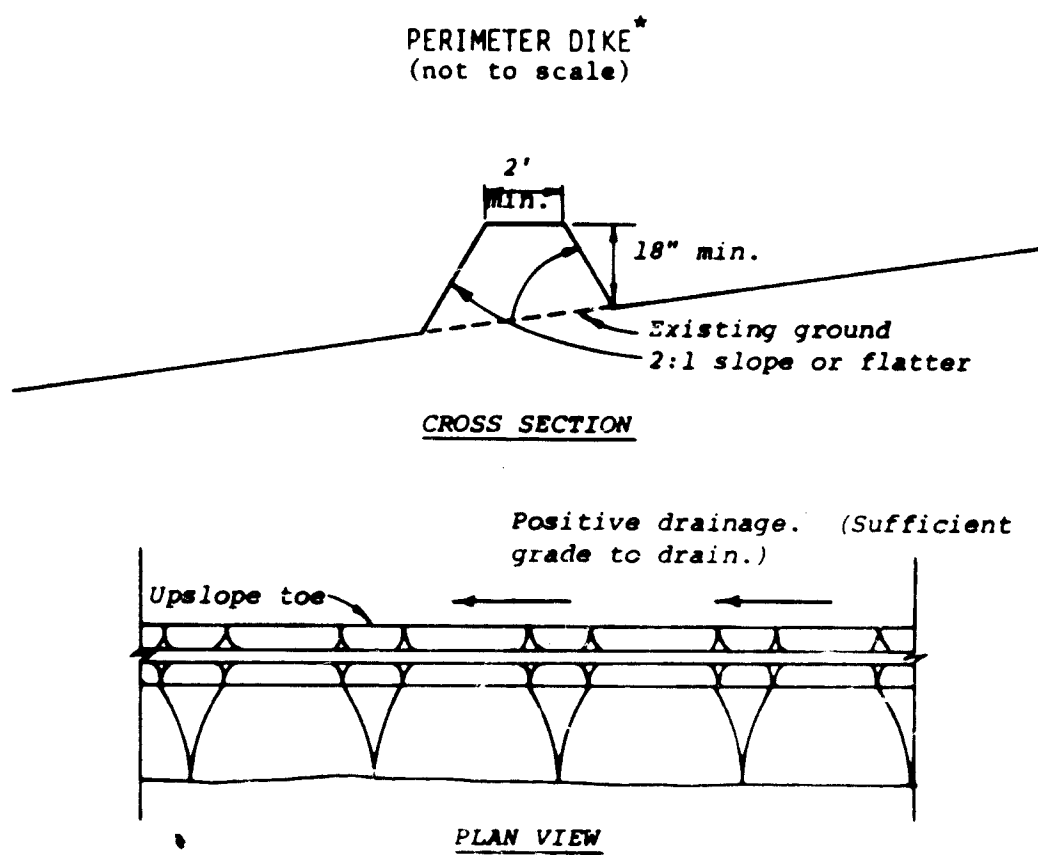
- Soil Preparation
 - Apply 3,000 pounds per acre Pulverized Dolomitic Limestone or its equivalent.
 - Areas to be sodded shall first have Commercial Fertilizer 5-10-5 and Ureaform Fertilizer 38-0-0 applied at the rate of 20 and 5 pounds respectively per 1,000 square feet.
 - Areas to be seeded shall have Commercial Fertilizer 5-10-5 and Ureaform Fertilizer 38-0-0 applied at the minimum rate of 50 and 15 pounds respectively per 1,000 square feet.
 - Cross disc to a depth of 2 inches.
- Seeding
 - Broadcast Seeding: Apply state certified seed mix at the rate of 8 pounds per 1,000 S.F. Seed shall be of the following mix:
90% Certified "Kentucky 31" or "Rebel" Tall Fescue
10% Certified Kentucky Bluegrass
Roll seed bed. Immediately after seeding apply mulch and asphalt tie-down as specified in Temporary Seeding Specifications above.
 - Hydro Seeding: Mix seed mix and approved mulch material in the required amount of water to produce a homogeneous slurry. Apply uniformly under pressure at rate of 70 pounds per 1,000 square feet.
- Sodding
 - Sod Composition: Not less than 90% K-31 Tall Fescue and 10% Kentucky Blue Grass.
 - Sod shall be cut in strips not less than 12 inches nor more than 18 inches wide and of uniform thickness, having 1 inch to 1-1/2 inches of soil firmly attached to the roots.
 - Sod shall be placed on all drainage swales and on all slopes 3:1 and steeper. Long edges shall be placed parallel to the contour. Stake sod in place.
 - Immediately after placement of sod, the sod shall be rolled or hand tamped until all sod root growth is in close contact with the soil beneath.



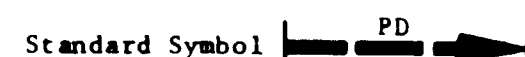
- Construction Specifications**
- The stone shall be crushed stone. Gravel may be used if crushed stone is not available. The stone shall meet MSHA Size No. 2 or AASHTO designation M43 Size No. 2 or 24.
 - The crest of the stone dike shall be at least six inches lower than the lowest elevation of the top of the earth dike and shall be level.
 - The stone outlet structure shall be embedded into the soil a minimum of four inches.
 - 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.
 - 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.



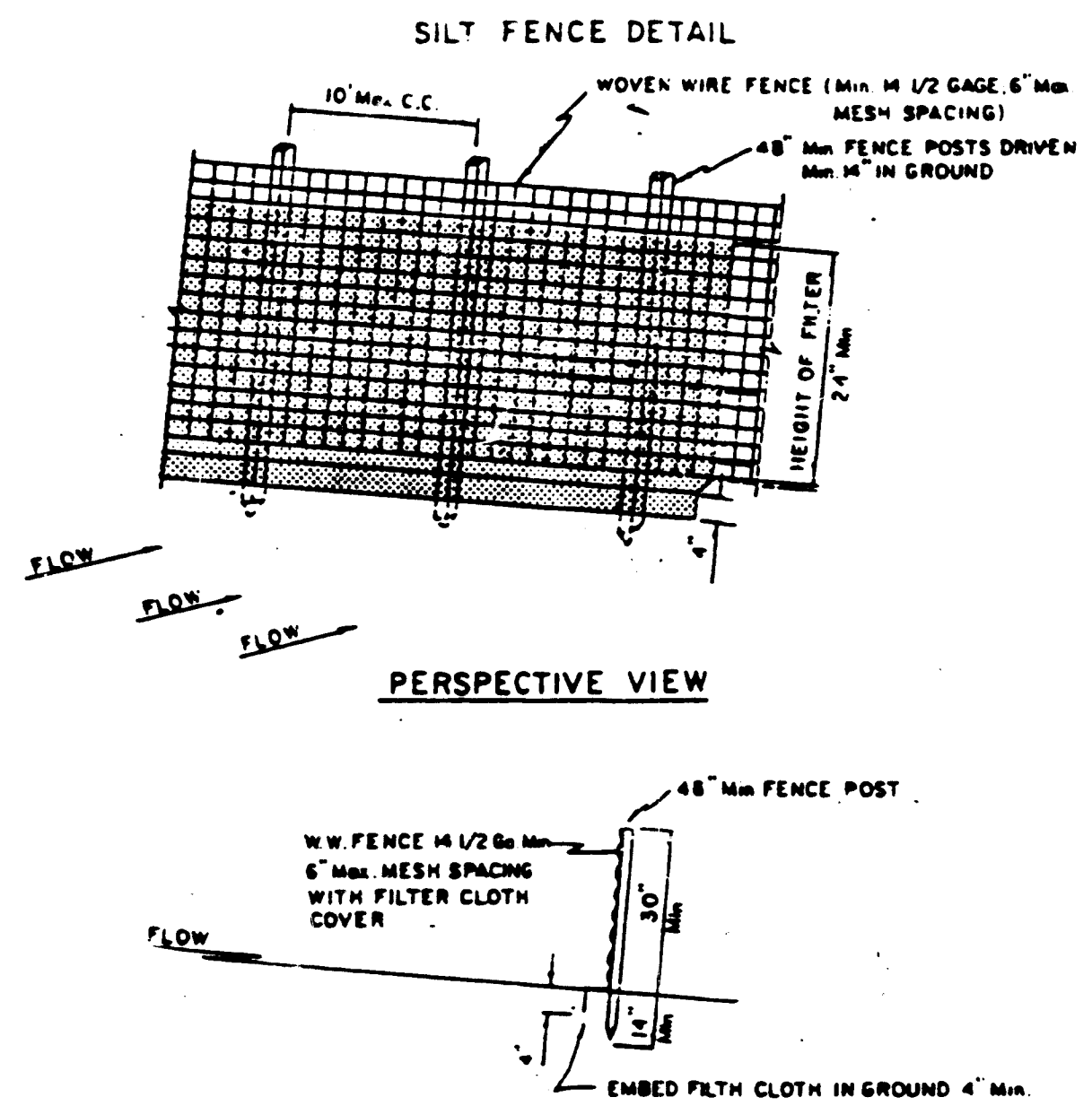
* Drainage area less than 5 acres



- Construction Specifications**
- All dikes shall be machine compacted.
 - All perimeter dikes shall have positive drainage to an outlet.
 - A. Diverted runoff from a protected or stabilized upland area shall outlet directly onto an undisturbed stabilized area or into a level spreader or grade stabilization structure.
 - B. Diverted runoff from a disturbed or exposed upland area shall be conveyed to a sediment trapping device such as sediment trap or a sediment basin or to an area protected by any of these practices.
 - Stabilization, when required, shall be done in accordance with Standard and Specifications for Grassed Waterway. The minimum area to be stabilized shall be the channel flow area.
 - Periodic inspection and required maintenance shall be provided.



* Drainage area less than 5 acres



- CONSTRUCTION NOTES**
- WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES
 - FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH WIRE TIES SPACED EVERY 24" AT TOP AND MID SECTION
 - SEE STEP BY STEP PROCEDURE ON BACK OF THIS SHEET.
- POSTS: STEEL EITHER T OR U TYPE OR 2" HARDWOOD
FENCE: WOVEN WIRE, 1/2 GAGE, Min. 6" MESH OPENING
FILTER CLOTH: FILTER X MURFEL 100%, LAUREL EROSION CONTROL CLOTH BIDM POLYFILTER X OR EQUAL
- EMBED FILTER CLOTH IN GROUND 4" MIN.
- STANDARD SYMBOL [Symbol] * DRAINAGE AREA LESS THAN 1/2 ACRE

⑥ SILT FENCE

4-21-82

① STABILIZED CONSTRUCTION ENTRANCE

③ DIVERSION DIKE

② STONE OUTLET STRUCTURE

④ PERIMETER DIKE

These plans have been reviewed for the Howard Soil Conservation District and meet the technical requirements for small pond construction, soil erosion and sediment control.
Date: 6-5-84
Howard Soil Conservation District

These plans for small pond construction, soil erosion and sediment control meet the requirements of the Howard Soil Conservation District.
Date: 6-5-84
Howard Soil Conservation District

APPROVED FOR PUBLIC WATER, PUBLIC SEWERAGE AND ROADS
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
DIRECTOR DATE

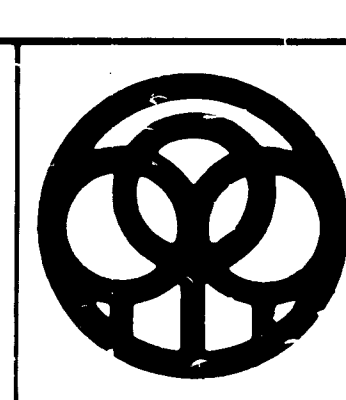
APPROVED HOWARD COUNTY OFFICE OF PLANNING AND ZONING
PLANNING DIRECTOR DATE

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS
HOWARD COUNTY HEALTH DEPARTMENT
DATE: 6-12-84

Drawn by Seal
Checked
Professional Engineer

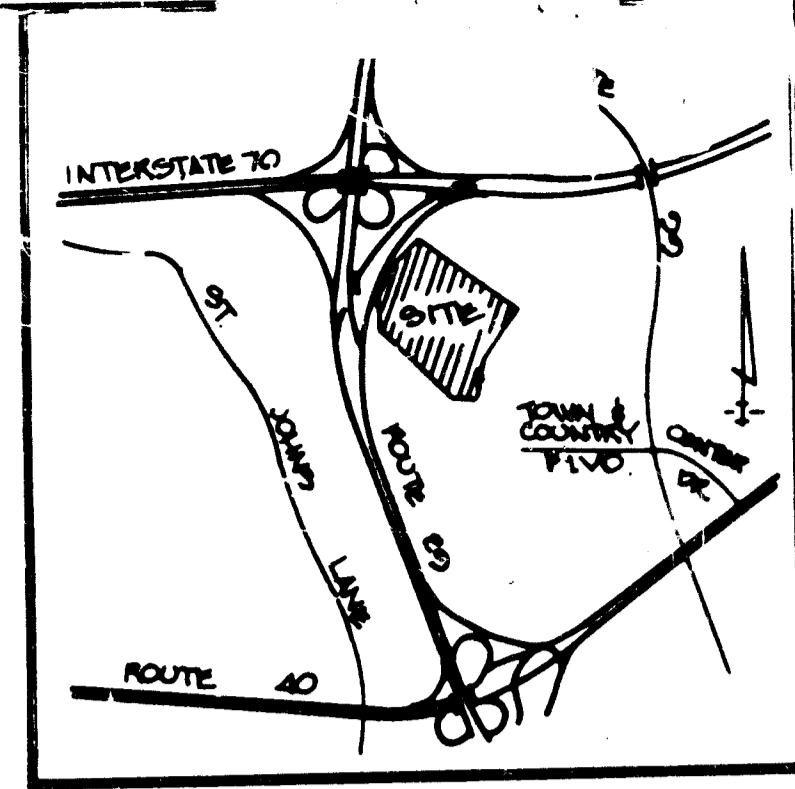
George Evans Associates, Inc. Structural Engineers
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Cochran, Stephenson & Donkervoet Incorporated Architects
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5501 WIN KNOLLS ROAD, SUITE 107
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TELEPHONE: BALTO (301) 992-0025
WASH (301) 621-567

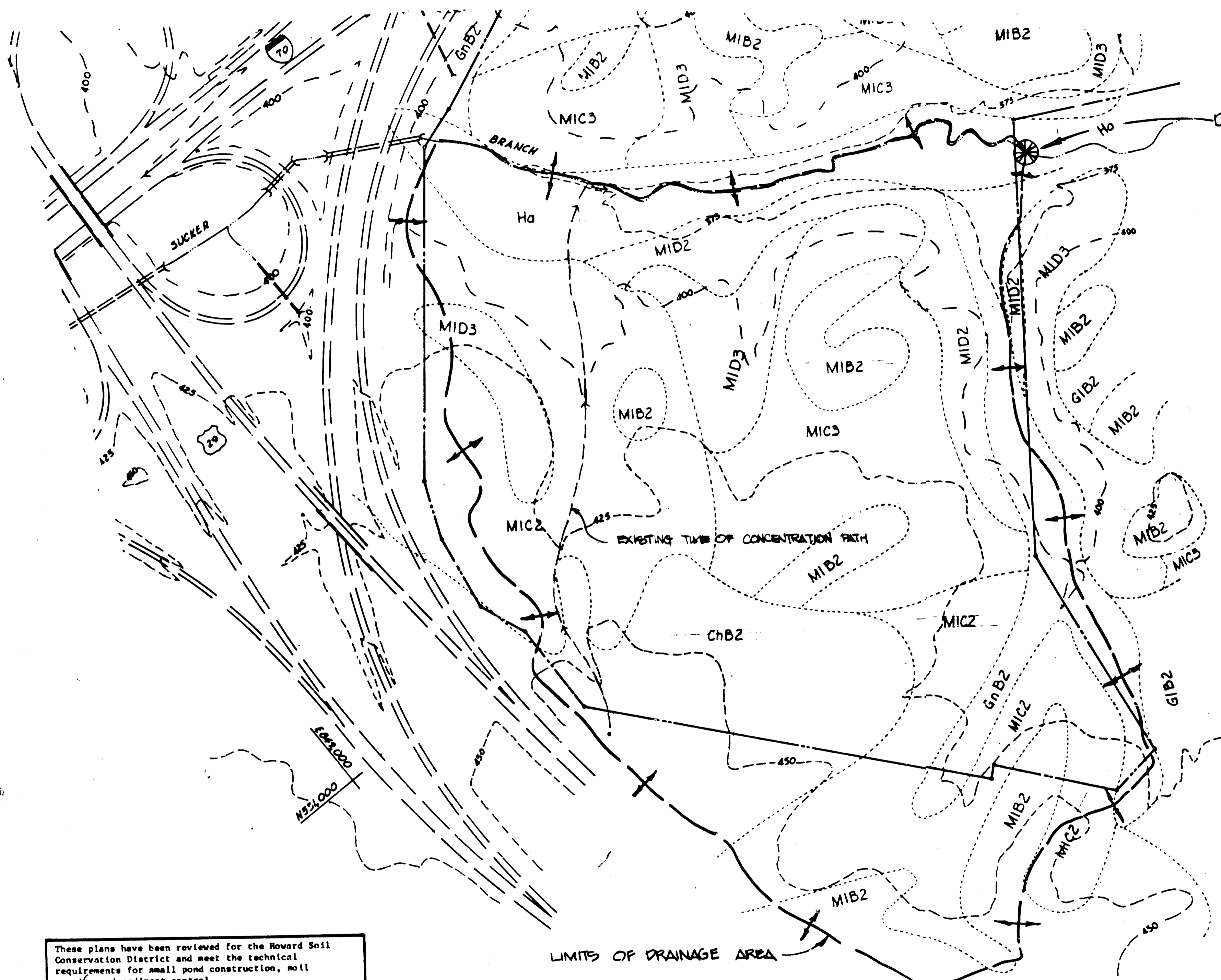
JOB NO. B-8115 Sheet SD-8
SEDIMENT CONTROL DETAILS SHT. 8 OF 28
BON SECOURS
HOWARD COUNTY HEALTH PARK
PARCEL B-1
PARCELS 666 & 80 TAX MAP 17
2nd ELECTION DISTRICT HOWARD COUNTY, MARYLAND
SDP-82-75



VICINITY MAP
NOT TO SCALE

GENERAL CONSTRUCTION SPECIFICATIONS

- SITE PREPARATION**
AREAS UNDER THE EMBANKMENT, STRUCTURAL WORKS AND INLET AND OUTLET CHANNELS AND EMERGENCY SPILLWAY SHALL BE CLEARED, GRUBBED AND TOPSOIL STRIPPED. ALL TREES, DEBRIS, VEGETATION, ROOTS, OR OTHER OBJECTIONABLE OR ORGANIC MATERIAL SHALL BE REMOVED.
- EARTH FILL**
MATERIAL THE FILL MATERIAL SHALL BE TAKEN FROM AN APPROVED BORROW AREA. THE FIRST TWO FEET OF EXCAVATION UNDER THE EMBANKMENT IS TO BE WASTED AT A DESIGNATED SPOIL AREA. THE FINAL DECISION AS TO THE SUITABILITY OF THE EXPOSED SOIL SHALL BE MADE BY THE SOILS ENGINEER AT THE TIME OF CONSTRUCTION. ALL MATERIAL SHALL BE FREE FROM ROOTS, STUMPS, WOOD, RUBBISH, OVERSIZED STONES, FROZEN OR OTHER OBJECTIONABLE MATERIALS. THE DAM EMBANKMENT SHALL BE FORMED OF MATERIAL CONFORMING TO THE UNIFIED SOIL CLASSIFICATION SM, SC, ML AND CL. AS A MINIMUM CRITERIA, THE FILL MATERIAL FOR THE DAM EMBANKMENT (EXCEPT AS NOTED BELOW) WILL HAVE A MAXIMUM DENSITY NOT LESS THAN 110 P.C.F. AS DETERMINED BY AASHTO T 99 METHOD AND THE LIQUID LIMIT SHALL NOT EXCEED 40 AND THE PLASTICITY INDEX MUST BE BETWEEN 12 AND 25. ALL MATERIAL SHALL CONTAIN NO STONE LARGER THAN 3" IN THE GREATEST DIMENSION. SUCH STONES SHALL NOT BE MORE THAN 25 PERCENT BY VOLUME OF THE FILL MATERIAL. FOR DAM CORE TRENCHES, THE MATERIAL USED CAN INCLUDE CLEAN AND ORGANIC FREE CH AND MH MATERIAL IN ADDITION TO CL AND ML.
PLACEMENT: ALL AREAS ON WHICH FILL IS TO BE PLACED SHALL BE SCARIFIED PRIOR TO PLACEMENT OF FILL. FILL MATERIALS SHALL BE PLACED IN 8" MAXIMUM THICKNESS (BEFORE COMPACTION) LAYERS WHICH ARE TO BE CONTINUOUS THE ENTIRE LENGTH OF THE FILL. THE MOST POROUS BORROW MATERIAL SHALL BE PLACED IN THE DOWNSTREAM PORTIONS OF THE EMBANKMENT.
COMPACTION: THE MOVEMENT OF THE HAULING AND SPREADING EQUIPMENT OVER THE FILL SHALL BE CONTROLLED SO THAT THE ENTIRE SURFACE OF EACH LIFT SHALL BE TRAVERSED BY NOT LESS THAN ONE TREAD TRACK OF EQUIPMENT AND COMPACTION SHALL BE ACHIEVED BY A MINIMUM OF FOUR COMPLETE PASSES OF A SUBSOLOID, RUBBER TRED OR VIBRATORY ROLLER. ALL COMPACTION IS TO BE 95 PERCENT OF THE MAXIMUM DENSITY AS DETERMINED BY ASTM SPECIFICATION D-698 (STANDARD PROCTOR) AND IS TO BE CERTIFIED AS SUCH BY THE SOILS ENGINEER AT THE TIME OF CONSTRUCTION. ALL FILL PLACED AROUND THE CMP BARRELS SHALL BE COMPACTED USING HAND COMPACTION EQUIPMENT WHEN WITHIN 4 FEET OF THE PIPES.
CORE TRENCH AND DAM CORE: A CORE TRENCH SHALL BE EXCAVATED PARALLEL TO THE CENTER LINE OF THE EMBANKMENT AS SHOWN ON THE PLANS. THE BOTTOM WIDTH OF THE TRENCH SHALL BE GOVERNED BY THE EQUIPMENT USED FOR EXCAVATION, WITH THE MINIMUM WIDTH BEING FIVE FEET. THE DEPTH SHALL BE AS SHOWN ON THE PLANS. THE SIDE SLOPES OF THE TRENCH SHALL BE 1 TO 1 OR FLATTER. THE BACKFILL MATERIAL FOR THE DAM CORE SHALL BE THE MOST IMPERVIOUS MATERIAL AVAILABLE FREE OF ALL ORGANIC MATERIAL AND SHALL BE COMPACTED WITH EQUIPMENT OR ROLLERS TO ASSURE MAXIMUM DENSITY AND MINIMUM PERMEABILITY (SEE COMPACTION). THE DAM CORE MATERIAL SHALL COMPLETELY FILL THE EXCAVATED CORE TRENCH.
- STRUCTURAL BACKFILL**
MATERIAL SHALL BE OF THE TYPE AND QUALITY CONFORMING TO THAT SPECIFIED FOR THE ADJOINING FILL MATERIAL. THE FILL SHALL BE PLACED IN HORIZONTAL LAYERS NOT TO EXCEED FOUR INCHES IN THICKNESS AND COMPACTED BY HAND TAMPER OR OTHER COMPACTION EQUIPMENT. THE MATERIAL NEEDS TO FILL COMPLETELY ALL SPACES UNDER AND ADJACENT TO THE PIPES. AT NO TIME DURING THE BACKFILLING OPERATION SHALL DRIVEN EQUIPMENT BE ALLOWED TO OPERATE CLOSER THAN FOUR FEET, MEASURED HORIZONTALLY, TO ANY PART OF A STRUCTURE OR PIPE UNLESS THERE IS A COMPACTED FILL OF TWENTY-FOUR INCHES OR GREATER OVER THE STRUCTURE OR PIPE.
- PIPE CONDUITS**
MATERIALS (CORRUGATED STEEL PIPE): THIS PIPE AND ITS APPURTENANCES SHALL BE GALVANIZED AND FULLY BITUMINOUS COATED AND SHALL CONFORM TO THE REQUIREMENTS OF AASHTO SPECIFICATIONS M-190 TYPE A WITH WATER TIGHT COUPLING BANDS. ANY BITUMINOUS COATING DAMAGED OR OTHERWISE REMOVED SHALL BE REPLACED WITH GOLD APPLIED BITUMINOUS COATING COM-ROUND.
CONNECTIONS: ALL CONNECTIONS WITH PIPES MUST BE COMPLETELY WATERTIGHT. THE DRAIN PIPE OR BARREL CONNECTIONS TO THE RISER SHALL BE WELOID ALL AROUND. WATER TIGHT COUPLING BANDS SHALL BE USED AT ALL JOINTS. ANTI-SLEEP COLLARS SHALL BE CONNECTED TO THE PIPE IN SUCH A MANNER AS TO BE COMPLETELY WATERTIGHT.
BEDDING: THE PIPE SHALL BE FIRMLY AND UNIFORMLY BEDDED THROUGHOUT ITS ENTIRE LENGTH WHERE SOIL OR SAND SPONGY OR OTHER UNSTABLE SOIL IS ENCOUNTERED, ALL SUCH MATERIALS SHALL BE REMOVED OR REPLACED WITH SUITABLE EARTH COMPACTED TO PROVIDE ADEQUATE SUPPORT.
LAYING PIPE: THE PIPE SHALL BE PLACED WITH INSIDE CIRCUMFERENTIAL LAPS POINTING DOWNSTREAM AND WITH THE LONGITUDINAL LAPS AT THE SIDES.
OTHER DETAILS (ANTI-SLEEP COLLARS, VALVES, ETC.) SHALL BE AS SHOWN ON THE DRAWINGS.
- CONCRETE**
CONCRETE SHALL MEET MINIMUM REQUIREMENTS SET FORTH IN MARYLAND STATE HIGHWAY ADMINISTRATION SPECIFICATIONS FOR MATERIALS, HIGHWAYS, BRIDGES, AND INCIDENTAL STRUCTURES, ARTICLE 20.07 (PORTLAND CEMENT CONCRETE MIXTURES), M.S.H.A. MIX NO. 8.
- STABILIZATION**
ALL BORROW AND SPOIL AREAS SHALL BE GRADED TO PROVIDE PROPER DRAINAGE AND LEFT IN A SLIGHTLY CONDITON. ALL EXPOSED SURFACES OF THE SPOIL AREA SHALL BE STABILIZED BY SEEDING AND APPLYING STRAW MULCH IN ACCORDANCE WITH STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL IN URBANIZING AREAS, IMMEDIATELY AFTER FINISHED GRADING.
- EROSION CONTROL FACILITIES**
ALL DISTURBED AREAS TO BE CONTROLLED BY AN EROSION AND SEDIMENT CONTROL PLAN WHICH HAS BEEN APPROVED BY THE HOWARD COUNTY SOIL CONSERVATION DISTRICT (HSCSD).
- CONSTRUCTION INSPECTION BY DESIGNATED ENGINEERS**
THE CONSTRUCTION OF THE POND AND EMBANKMENT SHALL BE UNDER THE SUPERVISION OF A REGISTERED SOILS ENGINEER. THE ENGINEER MUST CERTIFY THAT THE POND AND EMBANKMENT HAVE BEEN BUILT IN ACCORDANCE WITH THE PLANS AND SUBMIT SUCH A WRITTEN CERTIFICATION TO THE HOWARD COUNTY SOIL CONSERVATION DISTRICT IMMEDIATELY FOLLOWING THE COMPLETION OF THE PROJECT. THE SOILS ENGINEER SHALL HAVE THE RESPONSIBILITY AND AUTHORITY TO MAKE MINOR CHANGES IN THE PLAN IN ORDER TO COMPENSATE FOR UNUSUAL SOIL CONDITIONS ENCOUNTERED DURING CONSTRUCTION AS LONG AS SUCH CHANGES DO NOT ADVERSELY AFFECT THE INTEGRITY OF THE DAM. MAJOR CHANGES TO THE DESIGN WHICH MAY RESULT FROM SITE CONDITIONS ENCOUNTERED DURING CONSTRUCTION MUST BE REVIEWED AND APPROVED BY THE DESIGN ENGINEER AND THE HSCSD PRIOR TO INITIATION OF CONSTRUCTION.
(CONT. ON SHEET SD-11)



DRAINAGE AREA MAP
SCALE: 1" = 200'

4-21-82
MS

NOTE: FOR POST-DEVELOPMENT DRAINAGE AREA MAP, SEE SHEET 23.

These plans have been reviewed for the Howard Soil Conservation District and meet the technical requirements for small pond construction, soil erosion and sediment control.

[Signature] 6-5-84
U.S. Soil Conservation Service Date

These plans for small pond construction, soil erosion and sediment control meet the requirements of the Howard Soil Conservation District.

Howard Soil Conservation District Date

APPROVED FOR PUBLIC WATER, PUBLIC SEWERAGE AND ROADS
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

DATE

APPROVED HOWARD COUNTY OFFICE OF PLANNING AND ZONING

PLANNING DIRECTOR DATE

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS
HOWARD COUNTY HEALTH DEPARTMENT

[Signature] 6-2-84
COUNTY HEALTH OFFICER DATE

Drawn by Seal
Checked

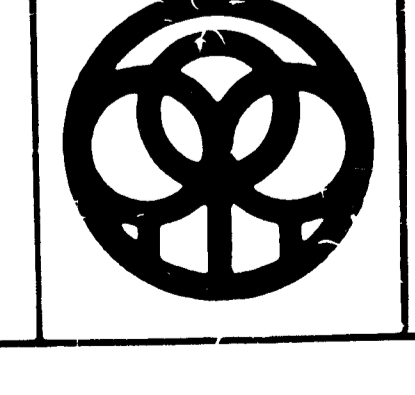
[Professional Engineer Seal]

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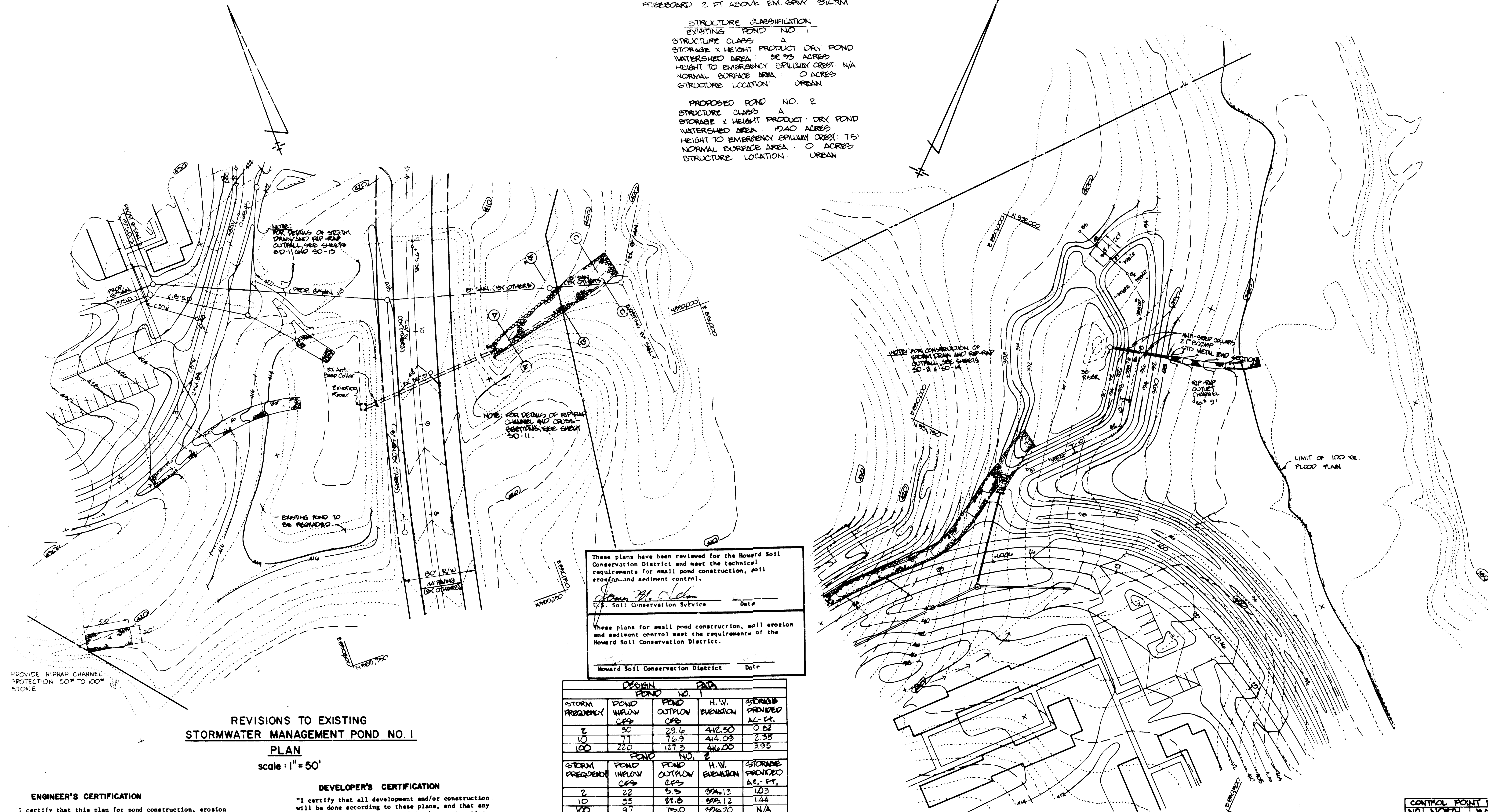
JOB NO. B-815 Sheet SD-9

STORMWATER MANAGEMENT
BON SECOURS
HOWARD COUNTY HEALTH PARK
PARCEL B-1
PARCELS 666 G 30, TAX MAP 17
2nd ELECTION DISTRICT HOWARD COUNTY, MARYLAND
SDP-82-75

HYDROLOGIC CRITERIA
 PRINCIPAL SPILLWAY ROUTING 2 YR 2 1/4 HR FREQ
 EMERGENCY SPILLWAY ROUTING 100 YR FREQ
 FREEBOARD 2 FT ABOVE EM. BAW SURF

STRUCTURE CLASSIFICATION
 EXISTING POND NO. 1
 STRUCTURE CLASS: A
 STORAGE X HEIGHT PRODUCT: DRY POND
 WATERSHED AREA: 26.93 ACRES
 HEIGHT TO EMERGENCY SPILLWAY CREST: N/A
 NORMAL SURFACE AREA: 0 ACRES
 STRUCTURE LOCATION: URBAN

PROPOSED POND NO. 2
 STRUCTURE CLASS: A
 STORAGE X HEIGHT PRODUCT: DRY POND
 WATERSHED AREA: 10.40 ACRES
 HEIGHT TO EMERGENCY SPILLWAY CREST: 7.5'
 NORMAL SURFACE AREA: 0 ACRES
 STRUCTURE LOCATION: URBAN



REVISIONS TO EXISTING
 STORMWATER MANAGEMENT POND NO. 1
 PLAN
 scale: 1" = 50'

ENGINEER'S CERTIFICATION
 I certify that this plan for pond construction, erosion and sediment control represents a practical and workable plan based on my personal knowledge of the site conditions. This plan was prepared in accordance with the requirements of the Howard Soil Conservation District. I have notified the developer that he must provide the Howard Soil Conservation District with an "as built" plan of the pond within 30 days of completion.
 Date: 5.10.84
 Signature: [Handwritten]

DEVELOPER'S CERTIFICATION
 "I certify that all development and/or construction will be done according to these plans, and that any responsible personnel involved in the construction project will have a Certificate of Attendance at a Department of Natural Resources Approved Training Program for the Control of Sediment and Erosion before beginning the project. I will provide the Howard Soil Conservation District with an "as-built" plan of the pond within 30 days of completion."
 Date: 5/19/84
 Signature: [Handwritten]

DESIGN		DATA		
STORM FREQUENCY	POND INFLOW CFS	POND NO.	H.W. ELEVATION	STORAGE PROVIDED AC.-FT.
2	30	29.6	412.50	0.82
10	77	76.9	414.03	2.35
100	220	127.3	416.00	3.95

DESIGN		DATA		
STORM FREQUENCY	POND INFLOW CFS	POND NO.	H.W. ELEVATION	STORAGE PROVIDED AC.-FT.
2	22	5.5	354.13	1.03
10	35	22.8	355.12	1.44
100	97	72.0	356.70	N/A

AS BUILT CERTIFICATION
 I HEREBY CERTIFY THAT THE FACILITY SHOWN ON THE PLAN WAS CONSTRUCTED AS SHOWN ON THE "AS BUILT PLANS" AND MEETS THE APPROVED PLANS AND SPECIFICATIONS.
 SIGNED: _____ P.E. _____
 DATE: _____

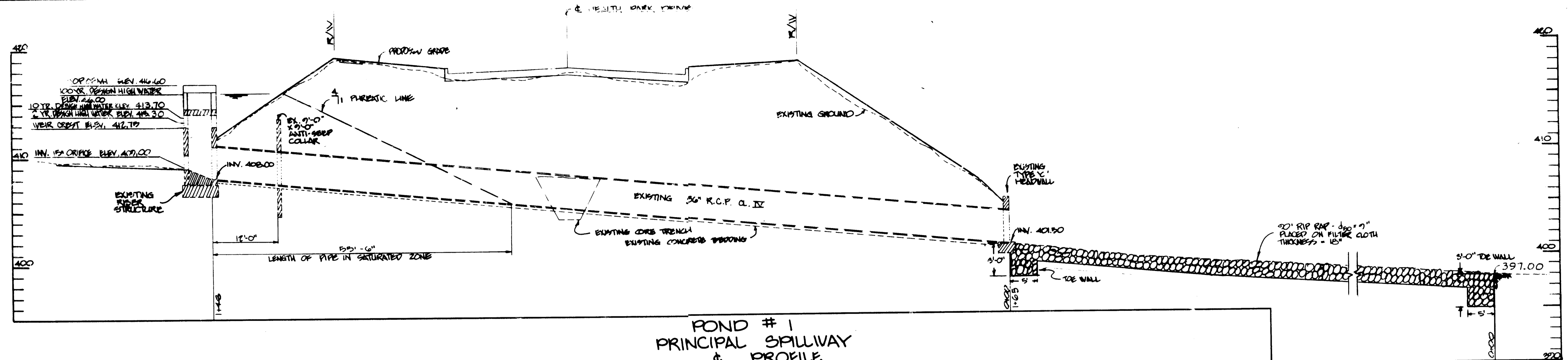
STORMWATER MANAGEMENT POND NO. 2
 PLAN
 scale: 1" = 50'

4-21-82

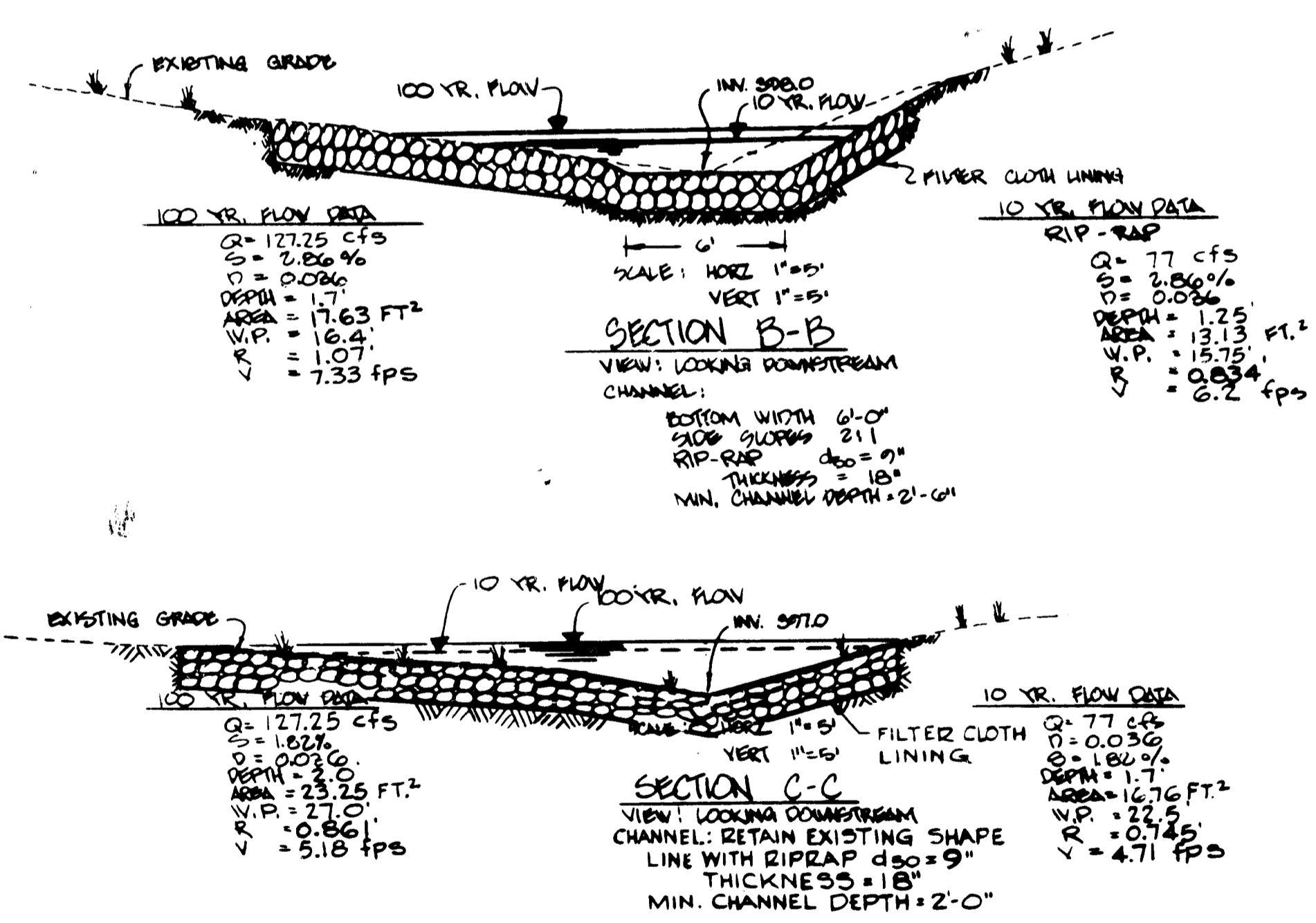
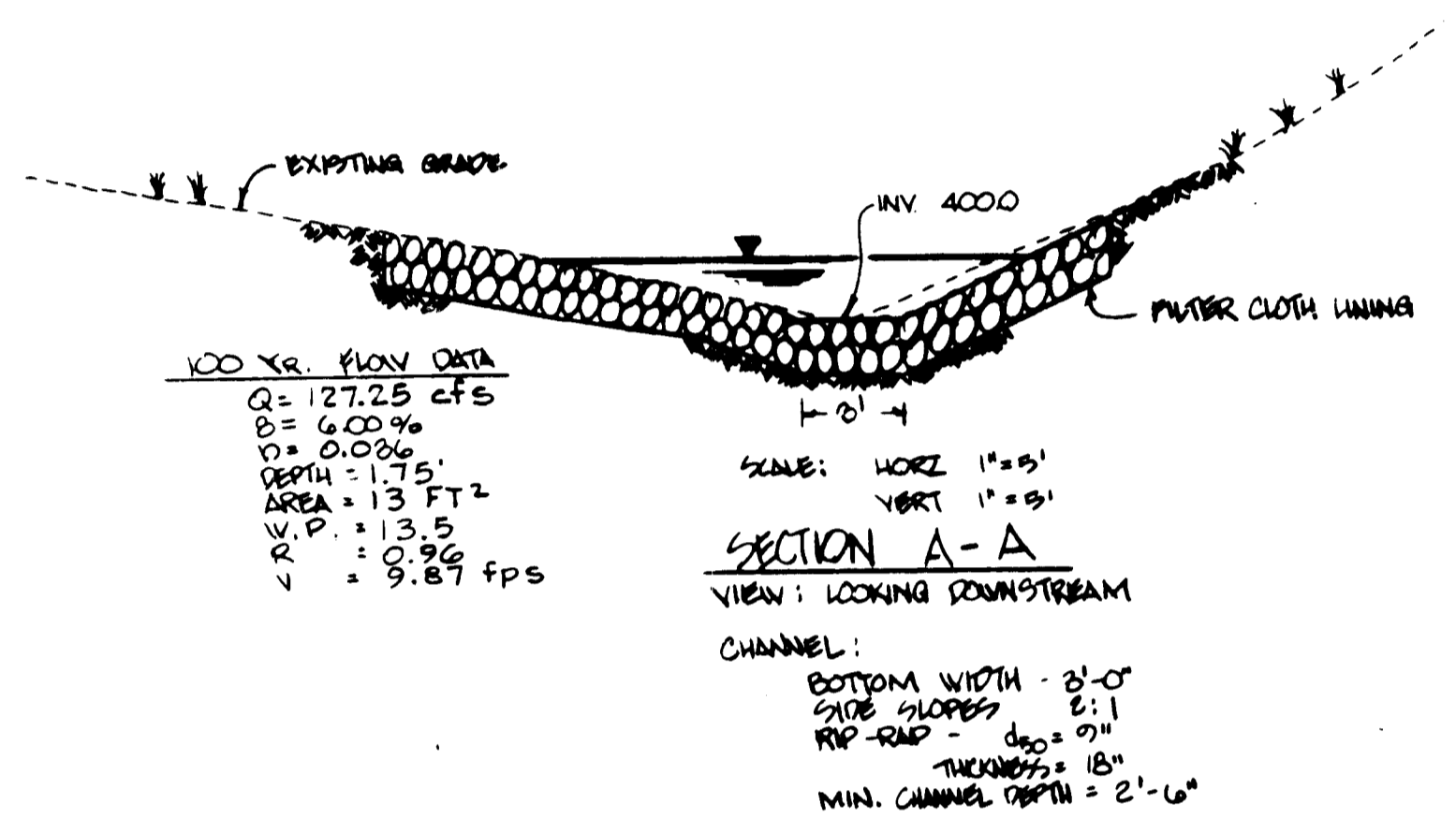
CONTROL POINT DATA

NO.	NORTH	EAST
B1	851151.47	850730.89
B2	851840.00	850211.85
B3	851915.64	850111.17
B4	852107.12	850147.04
B5	852011.17	850070.28
B6	851920.00	850110.16
B7	852024.00	850124.00
B8	852009.74	850104.67

APPROVED FOR PUBLIC WATER, PUBLIC SEWERAGE AND REARDS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS DIRECTOR: _____ DATE: _____ CHIEF, BUREAU OF ENGINEERING: _____	APPROVED HOWARD COUNTY OFFICE OF PLANNING AND ZONING PLANNING DIRECTOR: _____ DATE: _____ CHIEF DIV. OF LAND DEVELOPMENT AND ZONING ADMINISTRATION: _____	APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT. COUNTY HEALTH OFFICER: _____ DATE: 6-12-84	Drawn by: _____ Seal: [Professional Engineer Seal] Checked: _____	George Evans Associates, Inc. Structural Engineers Purdum & Jeschke Civil Engineers	Cochran, Stephenson & Donkersvoet Incorporated Architects 925 North Charles St Baltimore, Md. 21201 Henry Adams Inc. Consulting Engineers	DAFT-McCUNE-WALKER, INC. LAND PLANNING CONSULTANTS LANDSCAPE ARCHITECTS ENGINEERS 550 E. JOPPA ROAD FOLEY, MD 21049 TELEPHONE: 301-246-5333 TELETYPE: 301-246-5333	JOB NO. B-8115 Sheet 10 OF 25 STORMWATER MANAGEMENT BON SECOURS HOWARD COUNTY HEALTH PARK PARCEL B-1 PARCELS 665 & 80, TAX MAP 17 204 ELECTION DISTRICT HOWARD COUNTY, MARYLAND SDP-82-75
--	---	---	--	--	---	---	---



**POND # 1
PRINCIPAL SPILLWAY
& PROFILE**
SCALE: HORIZ. 1" = 10'
VERT. 1" = 5'



**OUTFALL CHANNEL - POND # 1
SECTIONS**

GENERAL CONSTRUCTION SPECIFICATIONS
(CONT. FROM SHEET SD-9)

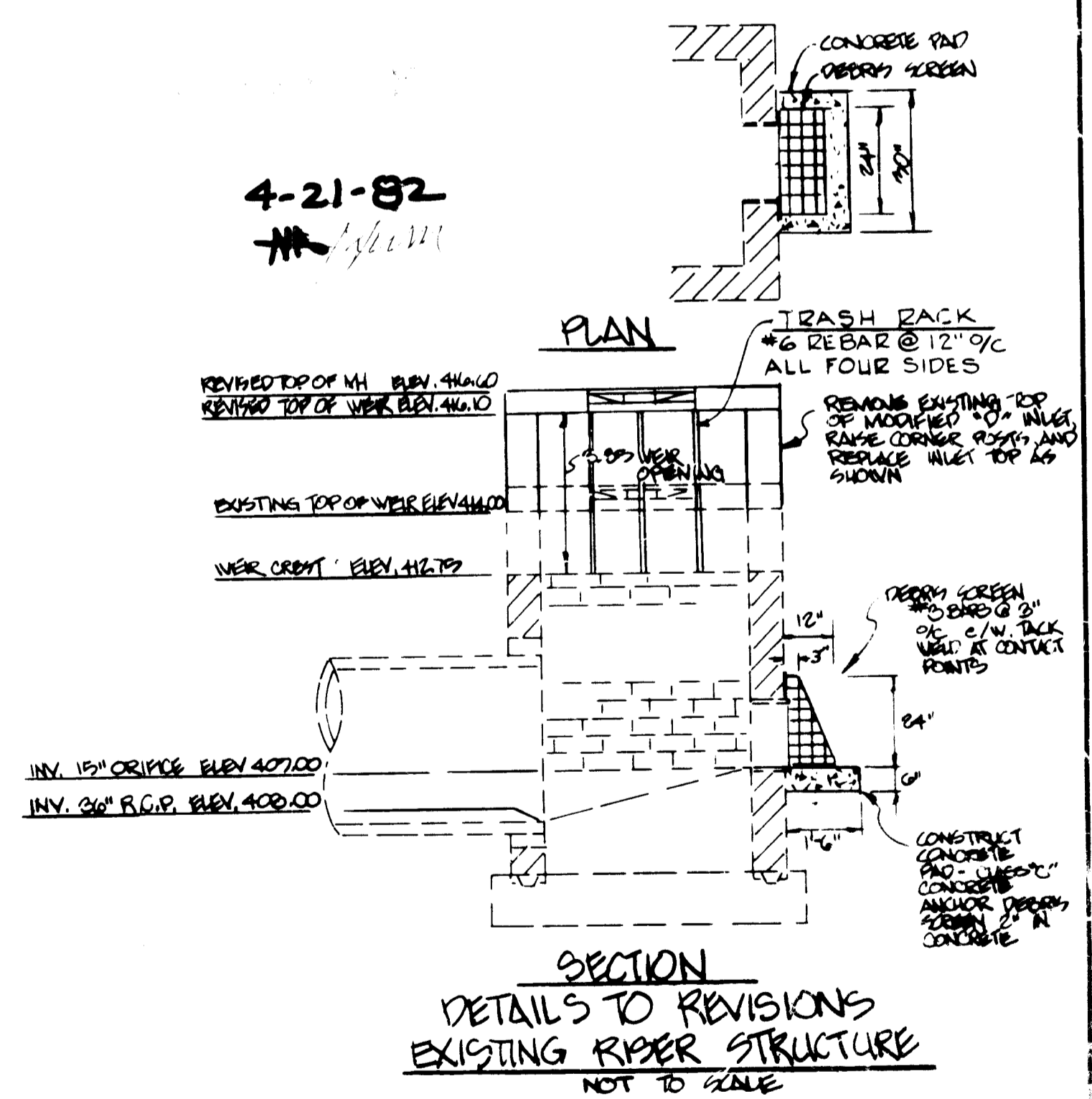
- CARE OF WATER DURING CONSTRUCTION**
ALL WORK ON PERMANENT STRUCTURES SHALL BE CARRIED OUT IN AREAS FREE FROM WATER. THE CONTRACTOR SHALL CONSTRUCT AND MAINTAIN ALL TEMPORARY DICES, LEVEES, COFFERDAMS, DRAINAGE CHANNELS, AND STREAM DIVERSIONS NECESSARY TO PROTECT THE AREAS TO BE OCCUPIED BY THE PERMANENT WORKS, AND TO FURNISH, INSTALL, OPERATE, AND MAINTAIN ALL NECESSARY PUMPING AND OTHER EQUIPMENT REQUIRED FOR REMOVAL OF WATER FROM THE VARIOUS PARTS OF THE WORK AND FOR MAINTAINING THE EXCAVATIONS, FOUNDATION, AND OTHER PARTS OF THE WORK FREE FROM WATER AS REQUIRED OR DIRECTED BY THE ENGINEER FOR CONSTRUCTING EACH PART OF THE WORK. AFTER HAVING SERVED THEIR PURPOSE ALL TEMPORARY PROTECTIVE WORKS SHALL BE REMOVED OR LEVELLED AND GRADED TO THE EXTENT REQUIRED TO PREVENT CONSTRUCTION IN ANY DEGREE WHATSOEVER OF THE FLOW OF WATER TO THE SPILLWAY OR OUTLET WORKS AND SO AS NOT TO INTERFERE IN ANY WAY WITH THE OPERATION OR MAINTENANCE OF THE STRUCTURE. THE DIVERSION AND CARE OF THE STREAM WILL BE DIVERTED THROUGH THE SITE UNTIL THE FULL FLOW CAN BE PASSED THROUGH THE PERMANENT WORKS. THE REMOVAL OF WATER FROM THE REQUIRED EXCAVATION AND THE FOUNDATION SHALL BE ACCOMPLISHED IN A MANNER AND TO THE EXTENT THAT WILL MAINTAIN STABILITY OF THE EXCAVATED SLOPES AND BOTTOM OF REQUIRED EXCAVATIONS AND WILL ALLOW SATISFACTORY PERFORMANCE OF ALL CONSTRUCTION OPERATIONS. DURING THE PLACING AND COMPACTING OF MATERIAL IN REQUIRED EXCAVATIONS, THE WATER LEVEL AT THE LOCATIONS BEING FILLED SHALL BE MAINTAINED BELOW THE BOTTOM OF THE EXCAVATION AT SUCH LOCATIONS, WHICH MAY REQUIRE DRAINING THE WATER TO PUMPS FROM WHICH THE WATER SHALL BE PUMPED.
- REMOVAL AND REPLACEMENT OF DEFECTIVE FILL**
FILL PLACED AT DENSITIES LOWER THAN SPECIFIED MINIMUM DENSITY OR AT MOISTURE CONTENTS OUTSIDE THE SPECIFIED ACCEPTABLE RANGE OF MOISTURE CONTENT OR OTHERWISE NOT CONFORMING TO THE REQUIREMENTS OF THE SPECIFICATIONS SHALL BE REWORKED TO MEET THE REQUIREMENTS OR REMOVED AND REPLACED BY ACCEPTABLE FILL. THE BOTTOMS OF SUCH EXCAVATIONS SHALL BE FINISHED FLAT OR GENTLY CURVING AND AT THE SIDES OF SUCH EXCAVATIONS THE ADJACENT SOUND FILL SHALL BE TRIMMED TO A SLOPE NOT STEEPER THAN 3 FEET HORIZONTALLY TO 1 FOOT VERTICALLY, EXTENDING FROM THE BOTTOM OF THE EXCAVATION TO THE FILL SURFACE.
- FOR A PREFABRICATED BARREL AND RISER STRUCTURE, THE ANGLE OF THE BARREL AT THE BARREL AND RISER CONNECTION MUST REFLECT THE SLOPE OF THE BARREL.**
- SEEDING**
SEEDING, FERTILIZING AND MULCHING SHALL BE AS FOLLOWS:
SEED V.X = 50% ADELPHI KENTUCKY BLUEGRASS
10% PENNSYLVANIA RED FESCUE
30% FLECK KENTUCKY BLUEGRASS
30% KENNEL CREEK KENTUCKY BLUEGRASS
APPLIED AT A RATE OF 150 LBS. PER ACRE
- LIME** 1 TON PER ACRE
- FERTILIZER** 5-0-5 AT 150 LBS. PER ACRE
- MULCH** STRAW AT 5000 LBS. PER ACRE
- ANCHORING** MULCHING TOOL OR ASPHALT BINDER
- FILTER CLOTH**
ALL FILTER CLOTH SHALL BE PEX-FILTER - X OR EQUIVALENT.

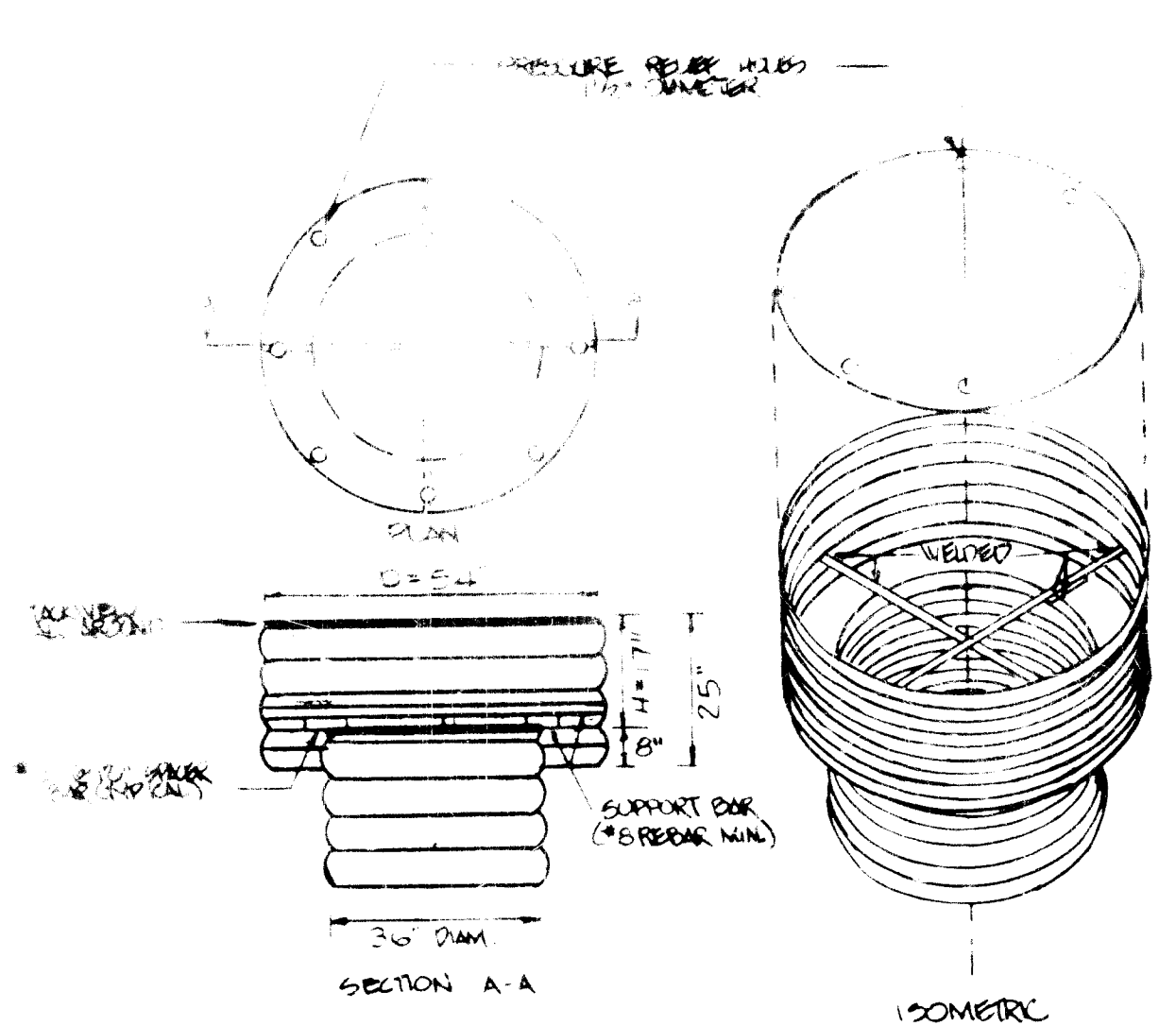
These plans have been reviewed for the Howard Soil Conservation District and meet the technical requirements for small pond construction, soil erosion and sediment control.

James M. Smith
U.S. Soil Conservation Service Date _____

These plans for small pond construction, soil erosion and sediment control meet the requirements of the Howard Soil Conservation District.

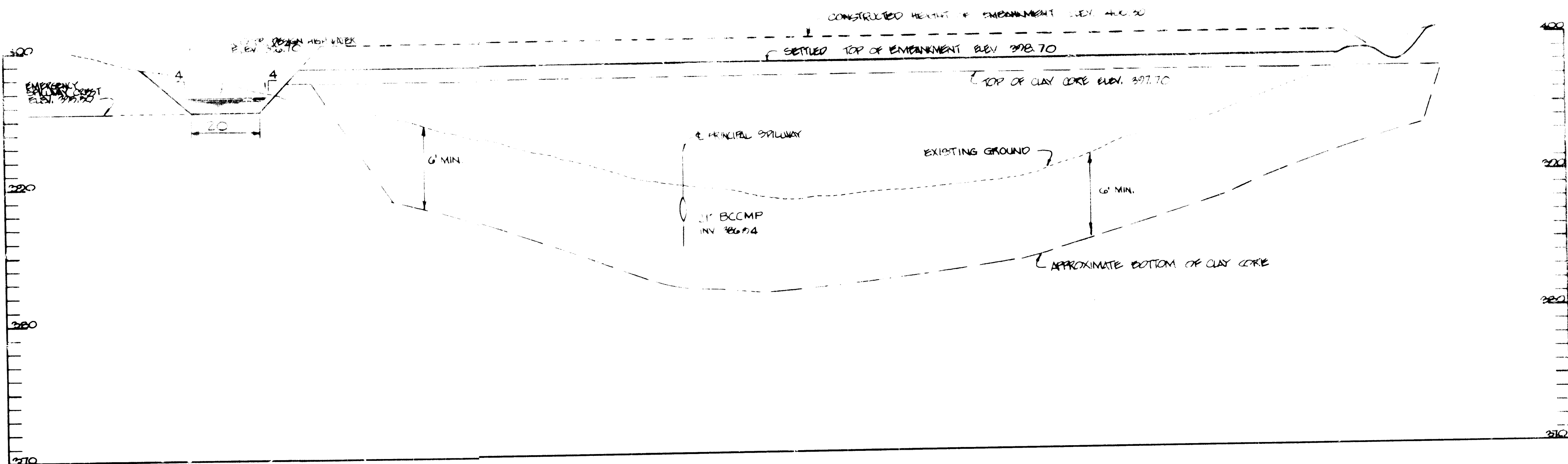
Howard Soil Conservation District Date _____



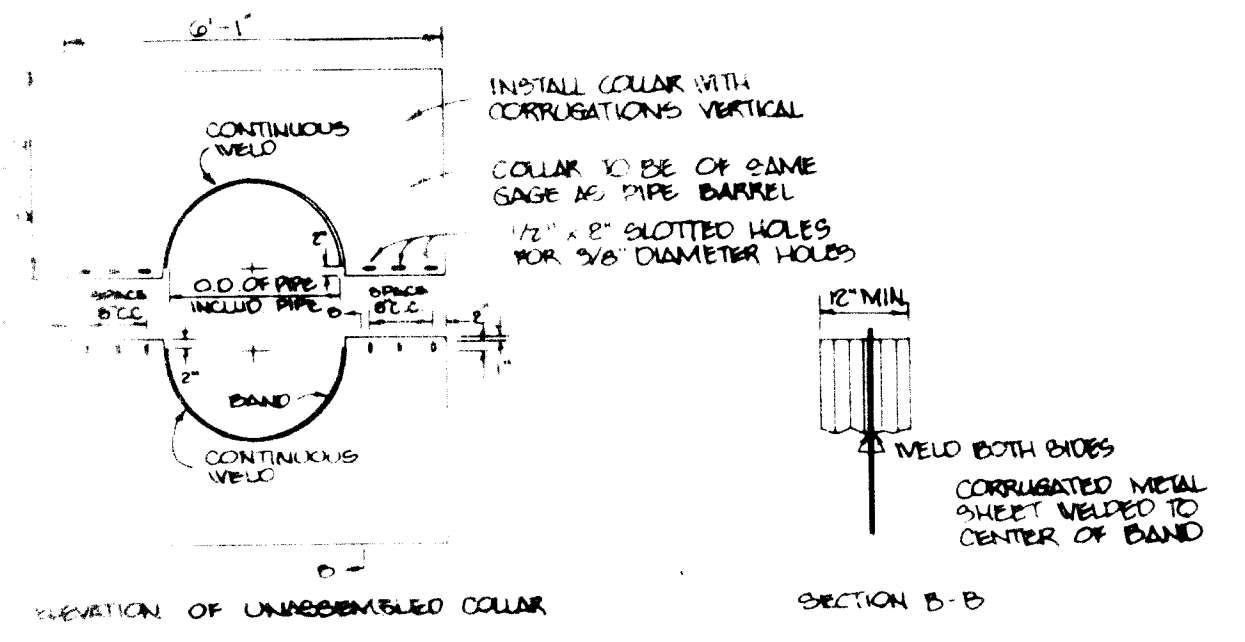


CONCENTRIC TRASH RACK AND ANTI-VORTEX DEVICE
(NOT TO SCALE)

NOTES:
 1) THE CYLINDER MUST BE FIRMLY FASTENED TO THE TOP OF THE RIPRAP.
 2) SUPPORT BARS ARE WELDED TO THE TOP OF THE RIPRAP OR ATTACHED BY STRAPS BOLTED TO TOP OF RIPRAP.

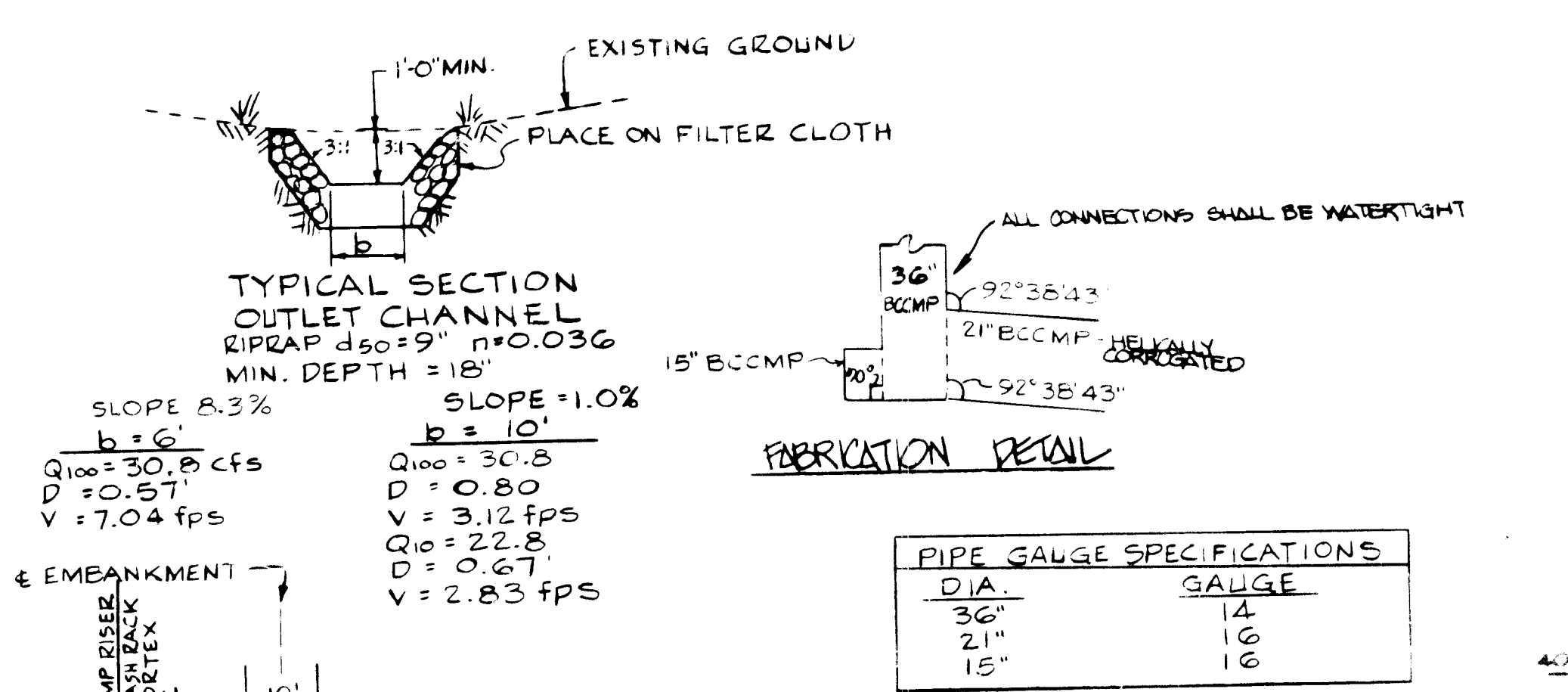


POUND # 2
 EMBANKMENT PROFILE
 LOOKING DOWNSTREAM
 SCALE: HORIZ 1" = 20'
 VERT 1" = 5'



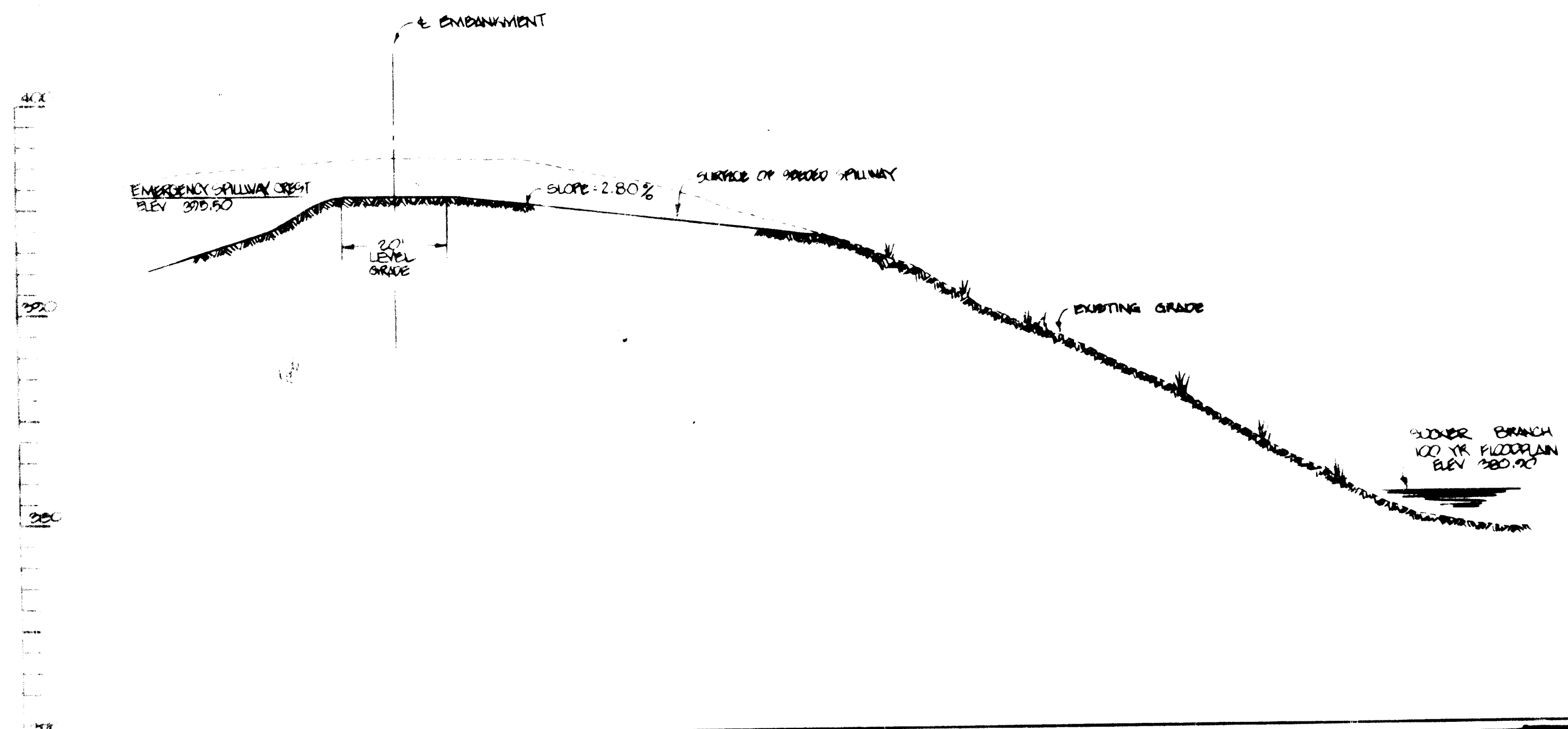
CORRUGATED METAL ANTI-SEEP COLLAR
(NOT TO SCALE)

NOTES:
 1) ALL MATERIALS TO BE IN ACCORDANCE WITH CONTRACT SPECIFICATIONS.
 2) WHEN SPECIFIED ON PLANS, COATING OF COLLARS SHALL BE IN ACCORDANCE WITH CONTRACT SPECIFICATIONS.
 3) UNASSEMBLED COLLARS SHALL BE MARKED BY PAINTING OR TAGGING TO IDENTIFY MATCHING PAIRS.
 4) THE GAP BETWEEN THE TWO HALF SECTIONS AND BETWEEN THE PIPE AND CONNECTING BAND SHALL BE CAULKED WITH ASPHALT MASTIC AT TIME OF INSTALLATION.
 5) EACH COLLAR SHALL BE FINISHED WITH TWO 1/2" DIAMETER RODS WITH STANDARD TANK LUGS FOR CONNECTING COLLARS TO PIPE.

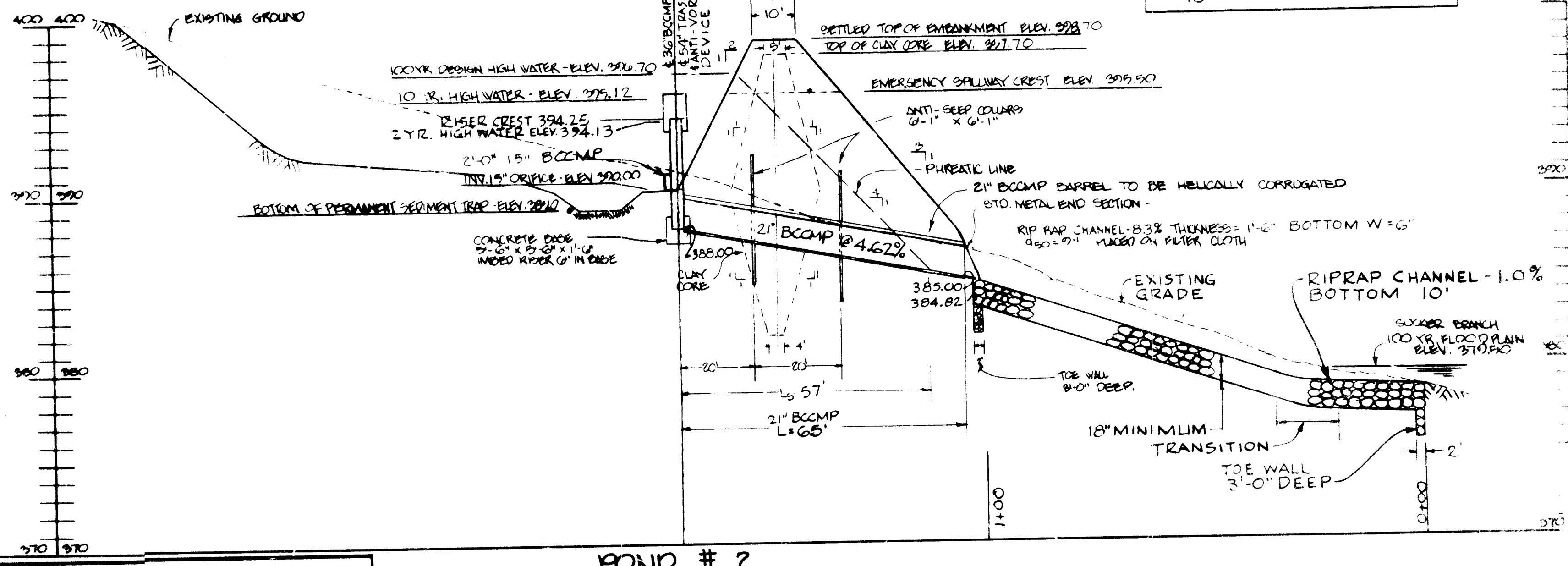


Typical Section Outlet Channel
 RIPRAP 450x9" n=0.036
 MIN. DEPTH = 18"
 SLOPE 2.3%
 $Q_{100} = 30.8 \text{ cfs}$
 $V = 7.04 \text{ fps}$
 $D = 0.57'$
 $b = 6'$

PIPE GAUGE SPECIFICATIONS	
DIA.	GAUGE
36"	14
21"	16
15"	16



POUND # 2
 EMERGENCY SPILLWAY
 & PROFILE
 SCALE: HORIZ 1" = 20'
 VERT 1" = 5'



POUND # 2
 PRINCIPAL SPILLWAY
 & PROFILE
 SCALE: HORIZ 1" = 20'
 VERT 1" = 5'

These plans have been reviewed for the Howard Soil Conservation District and meet the technical requirements for small pond construction, soil erosion and sediment control.
 U.S. Soil Conservation Service Date _____

These plans for small pond construction, soil erosion and sediment control meet the requirements of the Howard Soil Conservation District.
 Howard Soil Conservation District Date _____

4-21-82

APPROVED FOR PUBLIC WATER, PUBLIC SEWERAGE AND STORMWATER MANAGEMENT
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 DIRECTOR DATE

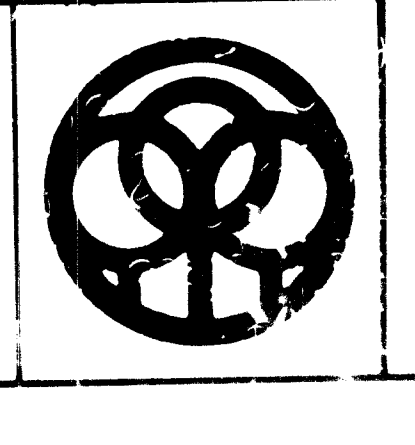
APPROVED HOWARD COUNTY OFFICE OF PLANNING AND ZONING
 PLANNING DIRECTOR DATE

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS
 HOWARD COUNTY HEALTH DEPARTMENT
 COUNTY HEALTH OFFICER DATE

Drawn by Seal
 Checked
 Date

George Evans Associates Inc
 Structural Engineers
 Purdum & Jeschke
 Civil Engineers

Cochran, Stephenson & Donkennel
 Incorporated Architects
 925 North Charles St. Baltimore, Md. 21201
 Henry Adams Inc
 Consulting Engineers



DRAFT-McCUNE-WALKER, INC.
 LAND PLANNING CONSULTANTS
 LANDSCAPE ARCHITECTS
 ENGINEERS
 520 E. JORDAN ROAD
 TOWSON, MD 21286
 TELEPHONE (301) 286-3333
 5501 CANTONVILLE SP. 140 SUITE 117
 CO. M.B.A. MD 21046
 TELEPHONE (301) 291-8200

STORMWATER MANAGEMENT
BON SECOURS
 HOWARD COUNTY HEALTH PARK
 PARCEL B-1
 PARCELS 666 & 80, TAX MAP 17
 ELECTION DISTRICT HOWARD COUNTY, MARYLAND
 SDP-82-75

SEE SHEET SDP-75
 SEE SHEET SDP-76
 SEE SHEET SDP-77
 SEE SHEET SDP-78
 SEE SHEET SDP-79
 SEE SHEET SDP-80
 SEE SHEET SDP-81
 SEE SHEET SDP-82
 SEE SHEET SDP-83
 SEE SHEET SDP-84
 SEE SHEET SDP-85
 SEE SHEET SDP-86
 SEE SHEET SDP-87
 SEE SHEET SDP-88
 SEE SHEET SDP-89
 SEE SHEET SDP-90

THE WATER AND SANITARY SERVICE CONNECTIONS SHOWN IN CLUSTERS AND LIKE TYPICAL LAYOUTS. THE CONTRACTOR SHALL MAINTAIN 10' MIN. HORIZONTAL CLEARANCE BETWEEN WATER AND SANITARY SERVICE CONNECTIONS.

CURVE DATA
 P.C. STA. 0+00.00
 P.T. STA. 11+25.16
 R = 671.11'
 Δ = 81.02°
 L = 108.42'
 CHD = 152.78'
 CHD P.C. = 152.78'
 CHD P.T. = 168.80'
 EXT. = 0.01'

CURVE DATA
 P.C. STA. 0+00.00
 P.T. STA. 0+00.00
 R = 1412.57'
 Δ = 76.52°
 L = 151.12'
 CHD = 152.78'
 CHD P.C. = 152.78'
 CHD P.T. = 168.80'
 EXT. = 4.11'

CURVE DATA
 P.C. STA. 2+161.85
 P.T. STA. 64+07.76
 R = 2000'
 Δ = 100°00'00"
 L = 338.00'
 CHD = 289.00'
 CHD P.C. = 289.00'
 CHD P.T. = 586.00'
 EXT. = 11.14'

POINT	NORTH	EAST
1	1000.00	1000.00
2	1000.00	1000.00
3	1000.00	1000.00
4	1000.00	1000.00
5	1000.00	1000.00
6	1000.00	1000.00
7	1000.00	1000.00
8	1000.00	1000.00
9	1000.00	1000.00
10	1000.00	1000.00

PLAN
 Scale: 1" = 50'

JOB NO. B-8115

Sheet 51

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS HOWARD COUNTY HEALTH DEPARTMENT

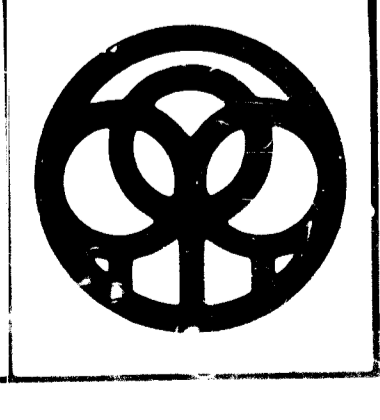
APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS HOWARD COUNTY HEALTH DEPARTMENT

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS HOWARD COUNTY HEALTH DEPARTMENT

Drawn by
 Checked
 Seal

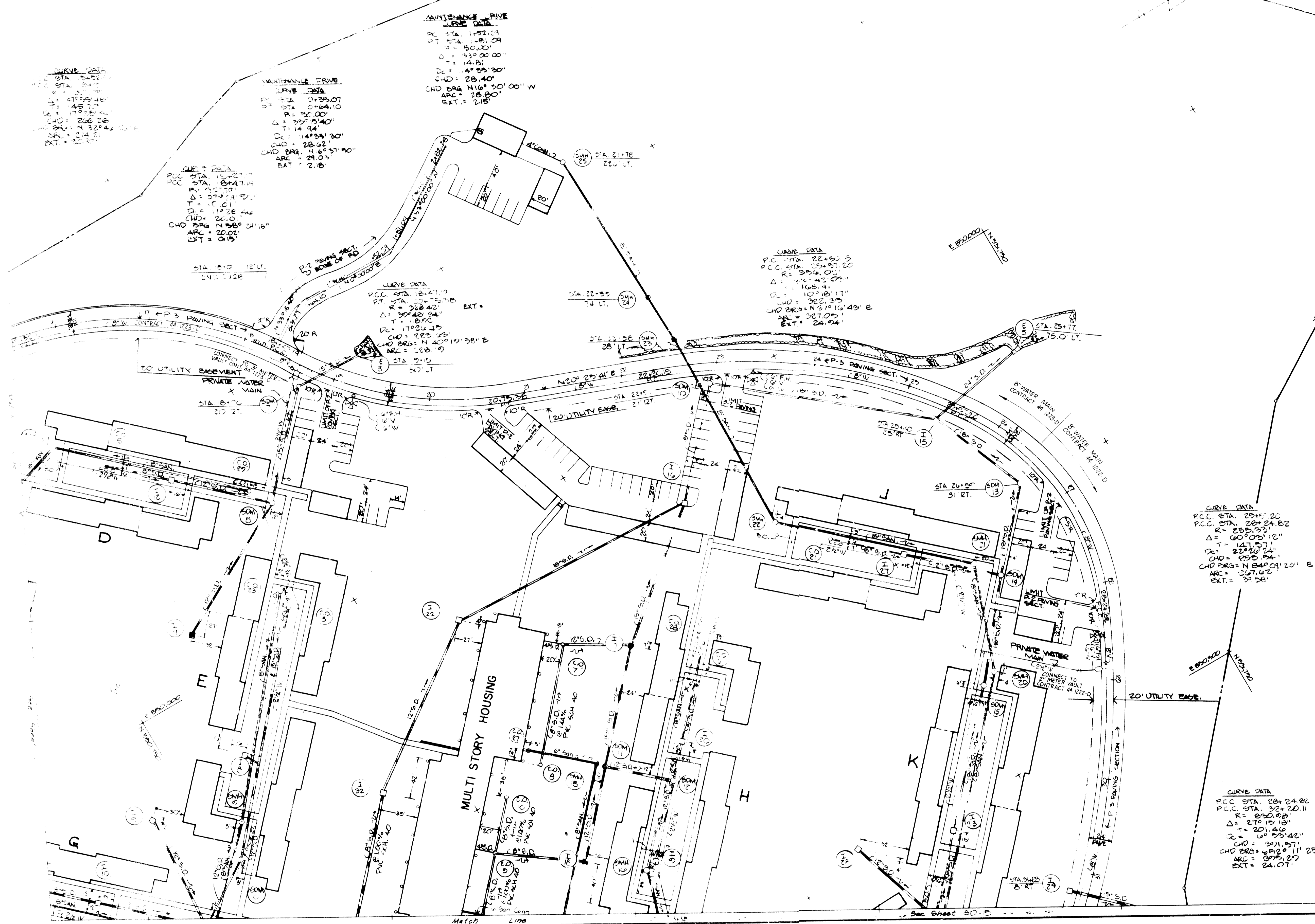
George Evans Associates Inc
 Structural Engineers
 Purdum & Jeschke
 Civil Engineers

Cochran Stephenson & Donkervoet Incorporated
 Architects
 925 North Charles St. Baltimore Md 21201
 Henry Adams Inc
 Consulting Engineers



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 LAND PLANNING CONSULTANTS
 LANDSCAPE ARCHITECTS
 ENGINEERS
 530 E. JOPPA ROAD
 TOWSON, MD 21284
 TELEPHONE (301) 296-3333
 5601 TWIN KNOLLS ROAD, SUITE 107
 COLUMBIA, MD 21046
 TELEPHONE BALTO (301) 982-0025
 WASH (301) 821-6807

ROAD AND UTILITIES
BON SECOURS
 HOWARD COUNTY HEALTH PARK
 PARCEL B-1
 PARCELS 666 & 80, TAX MAP 17
 2nd ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND
 SDP-82-75



CURVE DATA
 P.C. STA. 15+00.00
 P.T. STA. 15+00.00
 R = 100.00'
 Δ = 90°00'00"
 T = 141.42'
 D.C. = 141.42'
 C.H.D. = 28.28'
 A.R.C. = 28.28'
 EXT. = 2.15'

CURVE DATA
 P.C. STA. 15+00.00
 P.T. STA. 15+00.00
 R = 100.00'
 Δ = 90°00'00"
 T = 141.42'
 D.C. = 141.42'
 C.H.D. = 28.28'
 A.R.C. = 28.28'
 EXT. = 2.15'

MANTENANCE DRIVE CURVE DATA
 P.C. STA. 0+00.00
 P.T. STA. 0+00.00
 R = 50.00'
 Δ = 90°00'00"
 T = 70.71'
 D.C. = 70.71'
 C.H.D. = 14.14'
 A.R.C. = 14.14'
 EXT. = 1.08'

MANTENANCE DRIVE CURVE DATA
 P.C. STA. 1+57.09
 P.T. STA. 1+57.09
 R = 50.00'
 Δ = 90°00'00"
 T = 70.71'
 D.C. = 70.71'
 C.H.D. = 14.14'
 A.R.C. = 14.14'
 EXT. = 1.08'

CURVE DATA
 P.C. STA. 18+21.10
 P.T. STA. 18+21.10
 R = 228.42'
 Δ = 30°48'24"
 T = 118.89'
 D.C. = 118.89'
 C.H.D. = 23.78'
 A.R.C. = 23.78'
 EXT. = 2.15'

CURVE DATA
 P.C. STA. 22+00.00
 P.T. STA. 22+00.00
 R = 50.00'
 Δ = 90°00'00"
 T = 70.71'
 D.C. = 70.71'
 C.H.D. = 14.14'
 A.R.C. = 14.14'
 EXT. = 1.08'

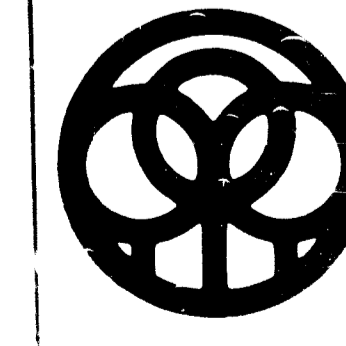
CURVE DATA
 P.C. STA. 20+24.82
 P.T. STA. 20+24.82
 R = 258.93'
 Δ = 60°00'12"
 T = 147.57'
 D.C. = 147.57'
 C.H.D. = 29.51'
 A.R.C. = 29.51'
 EXT. = 2.15'

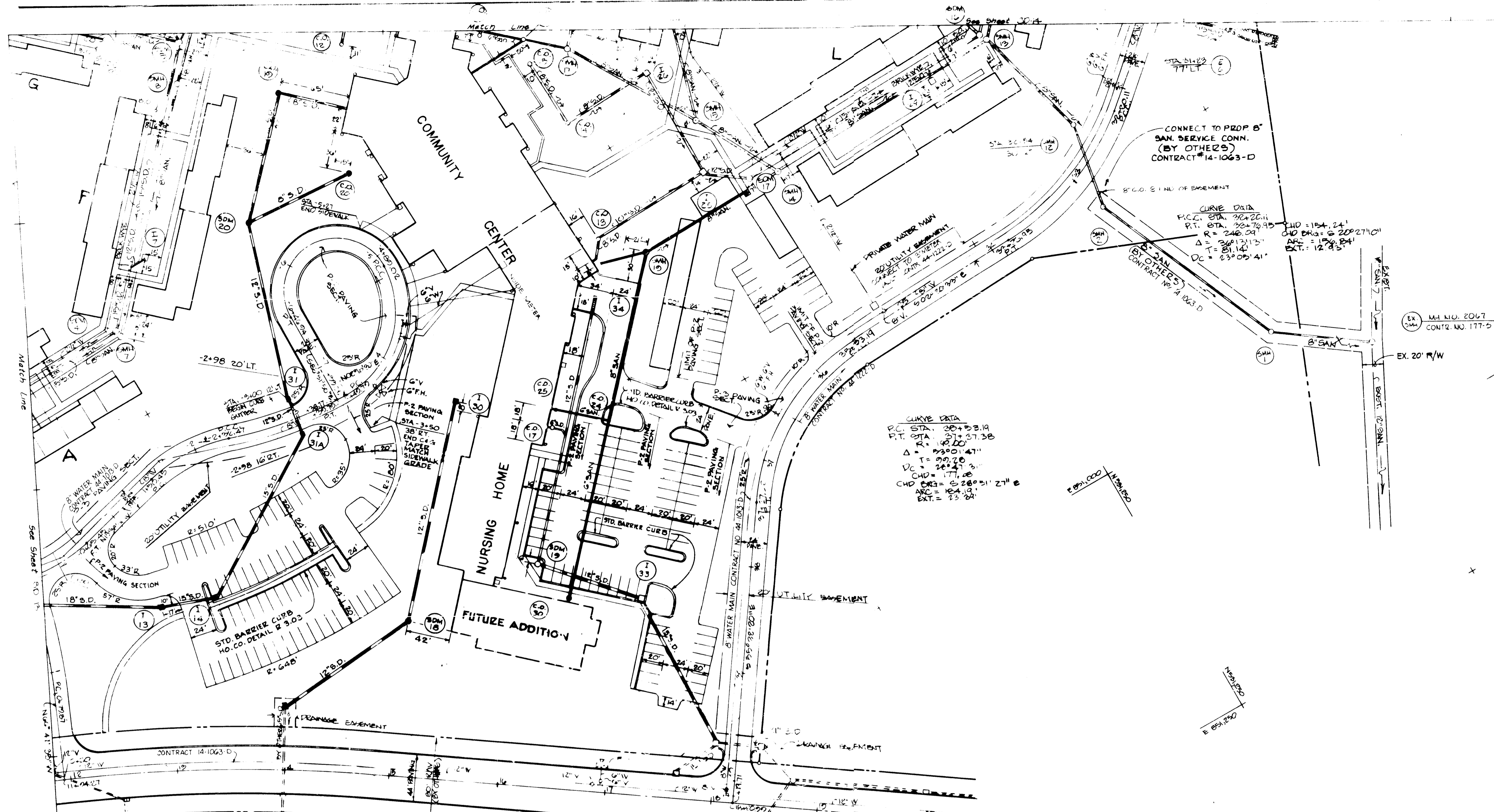
CURVE DATA
 P.C. STA. 20+24.82
 P.T. STA. 22+20.11
 R = 620.88'
 Δ = 27°15'18"
 T = 221.41'
 D.C. = 221.41'
 C.H.D. = 44.28'
 A.R.C. = 44.28'
 EXT. = 2.15'

CENTERLINE COORDINATES		
STATION	NORTH	EAST
15+00.00	930895.09	849792.80
18+21.10	931070.00	849792.00
22+00.00	931240.00	849792.00
22+24.82	931415.00	849792.00
25+51.20	931590.00	849792.00
28+24.82	931765.00	849792.00
31+51.20	931940.00	849792.00
34+78.60	932115.00	849792.00
38+06.00	932290.00	849792.00
41+33.40	932465.00	849792.00
44+60.80	932640.00	849792.00
47+88.20	932815.00	849792.00
51+15.60	932990.00	849792.00
54+43.00	933165.00	849792.00
57+70.40	933340.00	849792.00
61+00.00	933515.00	849792.00

PLAN
 Scale: 1" = 50'

4-21-81

APPROVED HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS DIRECTOR _____ DATE _____	APPROVED HOWARD COUNTY OFFICE OF PLANNING AND ZONING PLANNING DIRECTOR _____ DATE _____	APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS HOWARD COUNTY HEALTH DEPARTMENT COUNTY HEALTH OFFICER _____ DATE _____	Drawn by _____ Seal _____ Checked _____	George Evans Associates Inc. Structural Engineers Purdum & Jeschke Civil Engineers	Cochran, Stephenson & Donkervoet Incorporated Architects 925 North Charles St. Baltimore Md 21201 Henry Adams Inc. Consulting Engineers	 DRAFT-McCUNE-WALKER, INC. LAND PLANNING CONSULTANTS LANDSCAPE ARCHITECTS ENGINEERS 530 E. JOPPA ROAD TOWSON, MD 21284 TELEPHONE (301) 286-3333 5601 TWIN KNOLLS ROAD, SUITE 107 COLUMBIA, MD 21046 TELEPHONE (301) 982-0025 WASH. (301) 521-8607	ROAD AND UTILITIES BON SECOURS HOWARD COUNTY HEALTH PARK PARCEL B-1 PARCELS 666 & 80, TAX MAP 17 2ND ELECTION DISTRICT HOWARD COUNTY, MARYLAND SDP-82-75



CURVE DATA
 P.C. STA. 30+23.19
 P.T. STA. 31+57.38
 R = 180.00'
 Δ = 93°01'41"
 L = 290.76'
 V.C. = 34+42.53'
 C.H.D. = 171.08'
 C.H.D. PK. = 5+28°51'21" E
 ARC = 184.19'
 EXT. = 23.02'

CENTERLINE COORDINATES		
STATION	NORTH	EAST
0+00	930200.72	850761.40
0+70.87	930278.19	850684.19
1+70.87	930300.81	850576.10
2+20.11	931427.96	850707.57
2+76.95	931283.46	850763.47
3+53.19	931107.97	850710.67
3+57.38	930909.13	850686.49
4+19.71	930701.37	850682.74
4+63.45	930502.75	850514.82
4+70.45	930413.92	850574.76
4+82.47	930354.28	850576.61
4+93.79	930276.67	850576.13
4+99.02	930160.87	850482.90
4+46.04	930160.16	850489.13
4+99.26	930050.47	850576.16
ENTRANCE ROAD		
0+00	930200.72	850761.40
0+70.87	930278.19	850684.19
1+70.87	930300.81	850576.10

HEALTH PARK DRIVE

CURVE DATA
 P.C. STA. 1+00.47
 P.T. STA. 1+09.89
 R = 547.99'
 Δ = 115°51'16"
 L = 200.80'
 V.C. = 10+27.00'
 C.H.D. = 112.18'
 C.H.D. PK. = 7°24'23" W
 ARC = 112.20'
 EXT. = 2.75'

CURVE DATA
 P.C. STA. 2+00.47
 P.T. STA. 2+09.79
 R = 400'
 Δ = 150°22'22"
 L = 420.00'
 V.C. = 10+10.00'
 C.H.D. = 101.00'
 C.H.D. PK. = 10°00'41" W
 ARC = 107.32'
 EXT. = 3.67'

CURVE DATA
 P.C. STA. 3+00.10
 P.T. STA. 3+09.02
 R = 815'
 Δ = 91°10'10"
 L = 350.00'
 V.C. = 08+20.81'
 C.H.D. = 128.10'
 C.H.D. PK. = 148°16'22" W
 ARC = 130.25'
 EXT. = 37.55'

CURVE DATA
 P.C. STA. 4+00.00
 P.T. STA. 4+09.02
 R = 80.00'
 Δ = 180°57'50"
 L = N/A
 V.C. = 1148+53.50'
 C.H.D. = 100.00'
 C.H.D. PK. = 5 00°55'25" W
 ARC = 157.92'
 EXT. = N/A

PLAN
 Scale: 1" = 50'

4-21-82
 JMB

DATE: 4/21/82
 REVISION: 1-31-84 WATER LAYOUT CLUSTER 'L'
 JOB NO. B-8115
 SHEET SD-15

APPROVED FOR PUBLIC WATER, PUBLIC SEWERAGE AND ROADS
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 DIRECTOR: _____ DATE: _____
 CHIEF, BUREAU OF ENGINEERING

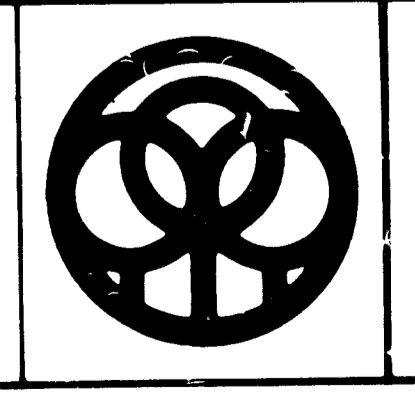
APPROVED HOWARD COUNTY OFFICE OF PLANNING AND ZONING
 PLANNING DIRECTOR: _____ DATE: _____
 CHIEF DIV. OF LAND DEVELOPMENT AND ZONING ADMINISTRATION

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS
 HOWARD COUNTY HEALTH DEPARTMENT
 COUNTY HEALTH OFFICER: _____ DATE: 6-1-82

Drawn by: _____ Seal: _____
 Checked: _____

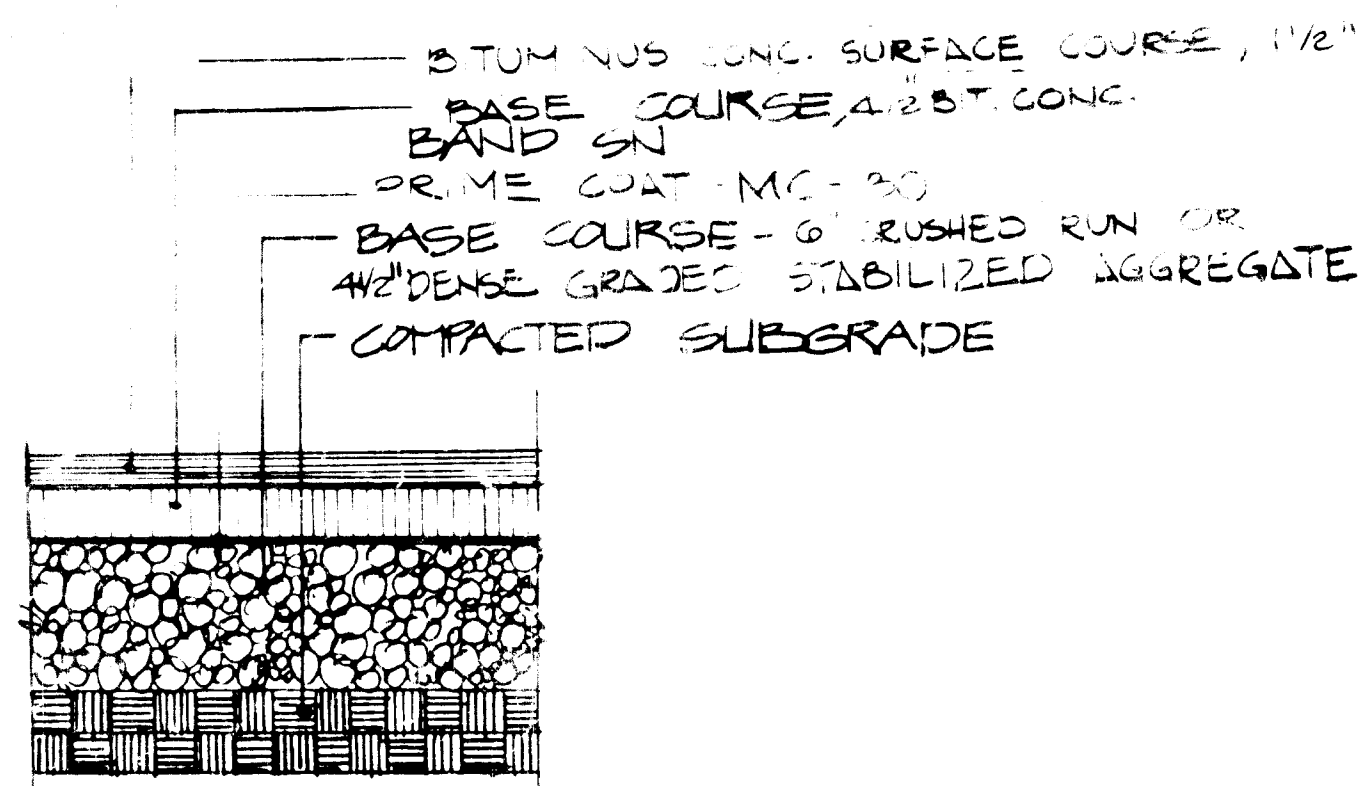
George Evans Associates, Inc.
 Structural Engineers
 Purdum & Jeschke
 Civil Engineers

Cochran, Stephenson & Donkervoet Incorporated
 Architects
 925 North Charles St. Baltimore, Md. 21201
 Henry Adams Inc.
 Consulting Engineers

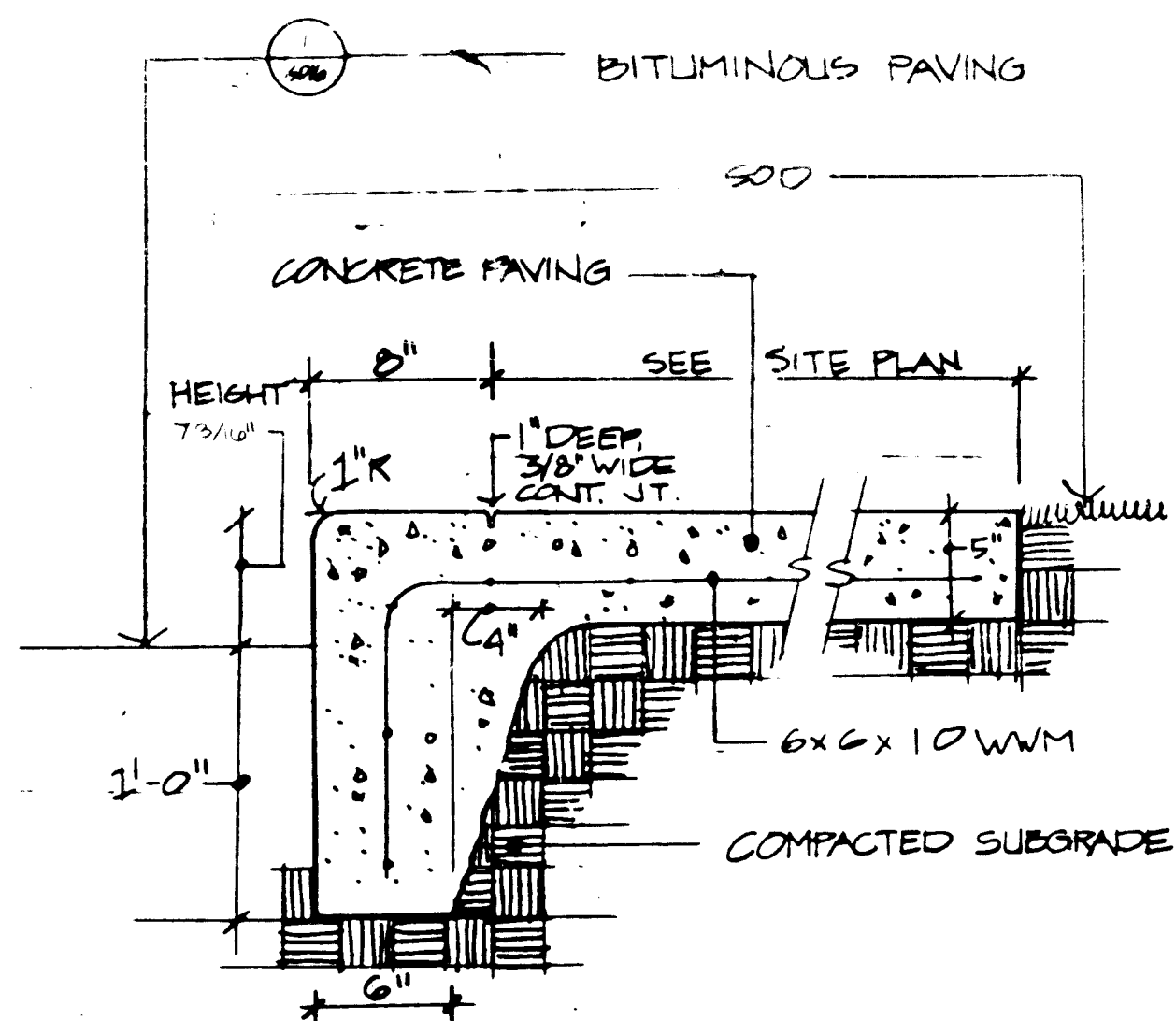


DRAFT-McCUNE-WALKER, INC.
 LAND PLANNING CONSULTANTS
 LANDSCAPE ARCHITECTS
 ENGINEERS
 530 E. JOPPA ROAD
 TOWSON, MD 21284
 TELEPHONE (301) 288-3333
 5601 TWIN KNOLLS ROAD, SUITE 107
 COLUMBIA, MD 21052
 TELEPHONE BALTO (301) 982-0225
 WASH (301) 821-8807

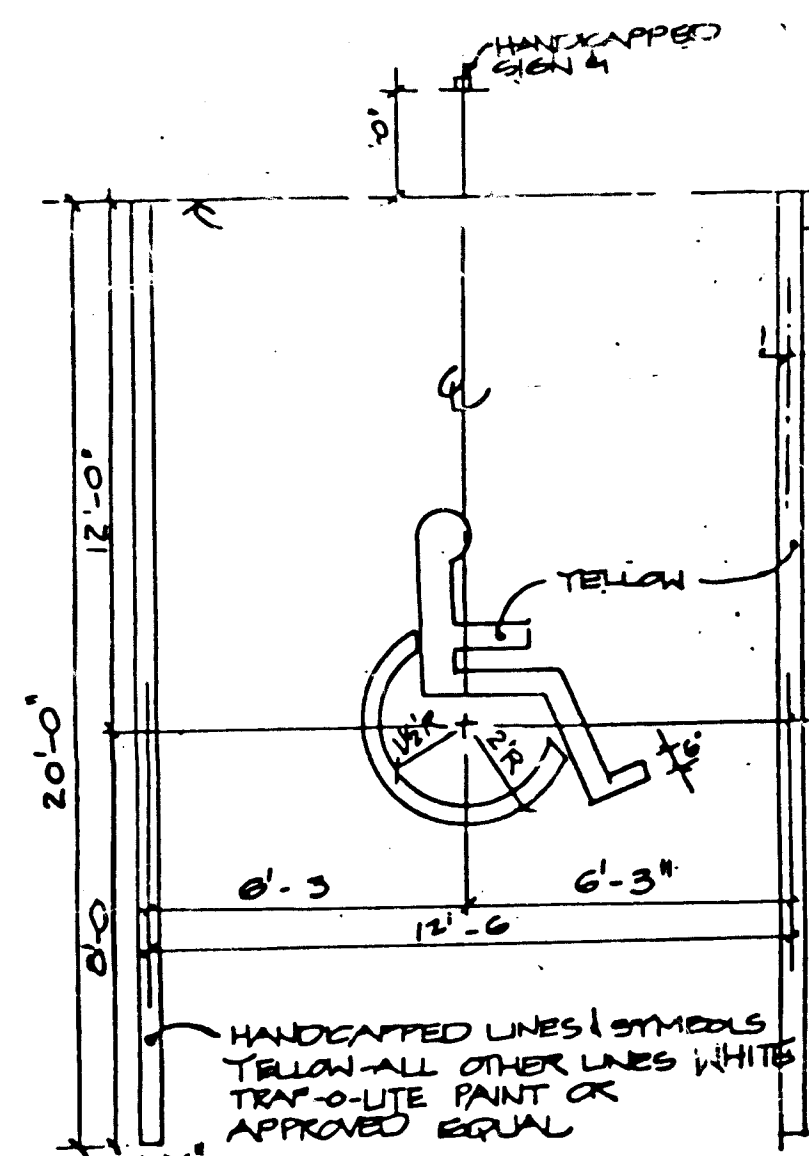
ROAD AND UTILITIES
BON SECOURS
 HOWARD COUNTY HEALTH PARK
 PARCEL B-1
 PARCELS 666 & 80, TAX MAP 17
 20th ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND
 SDP-82-75



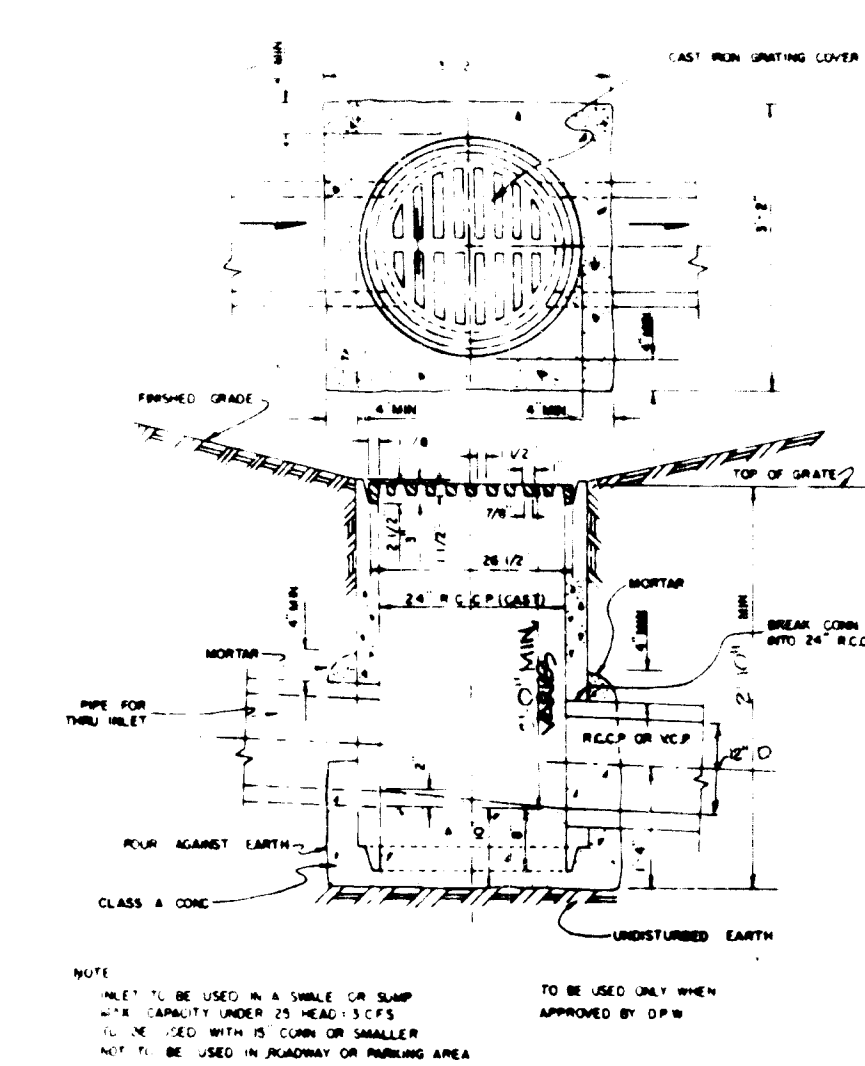
① P-3 PAVING SECTION (N.T.S.)



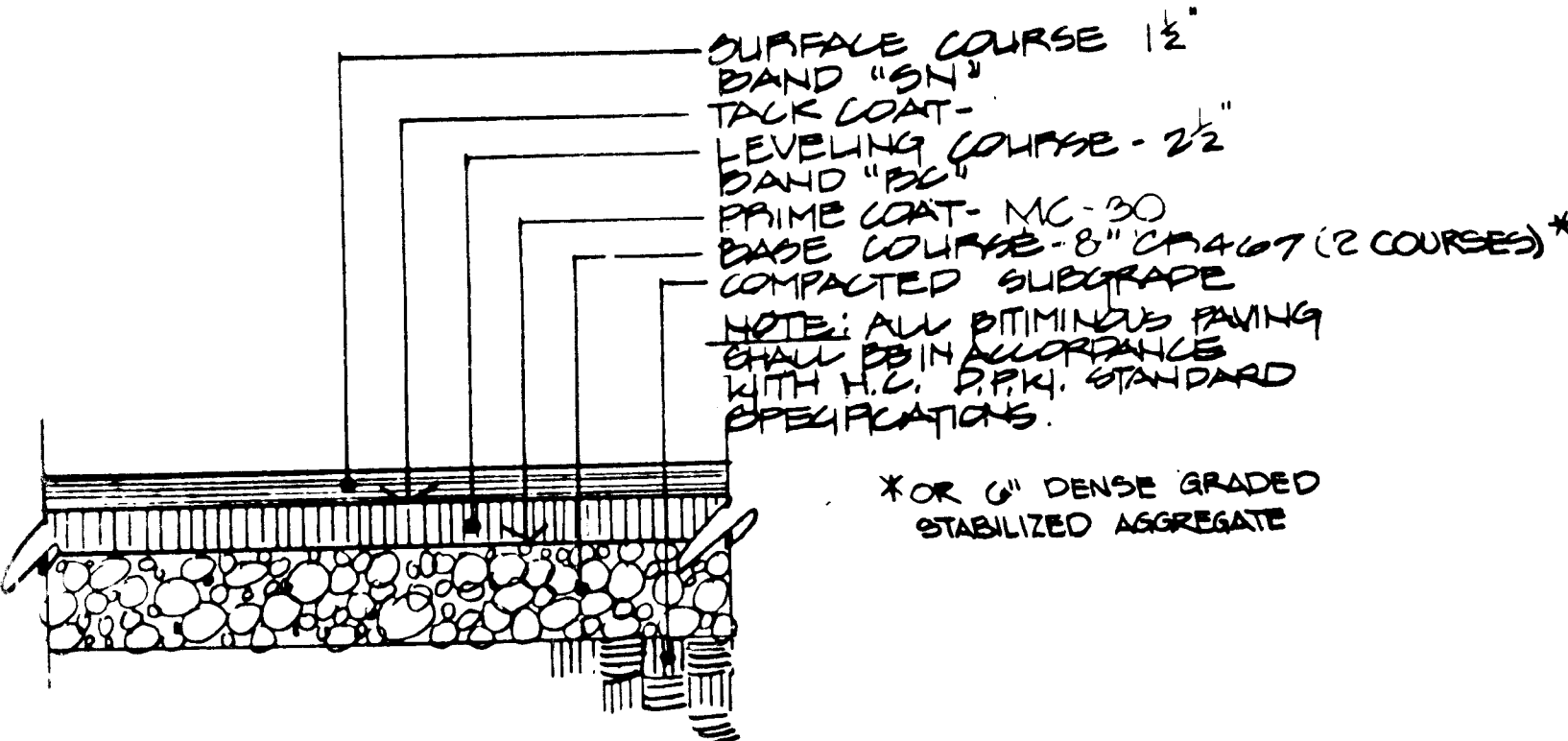
⑤ TURNDOWN CONCRETE CURB 1/2" = 1'-0"



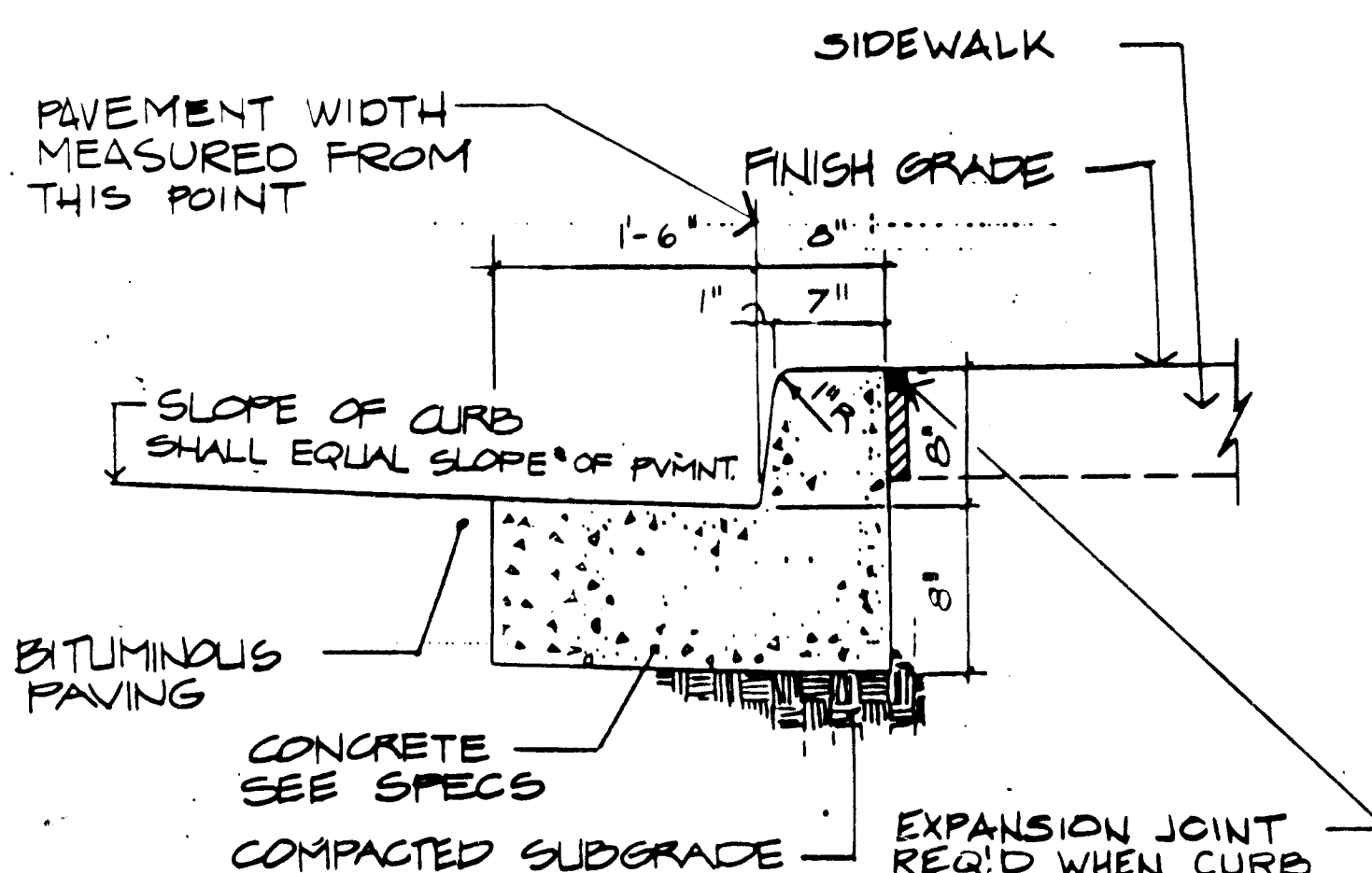
⑧ PARKING STALL PAINTING (N.T.S.)



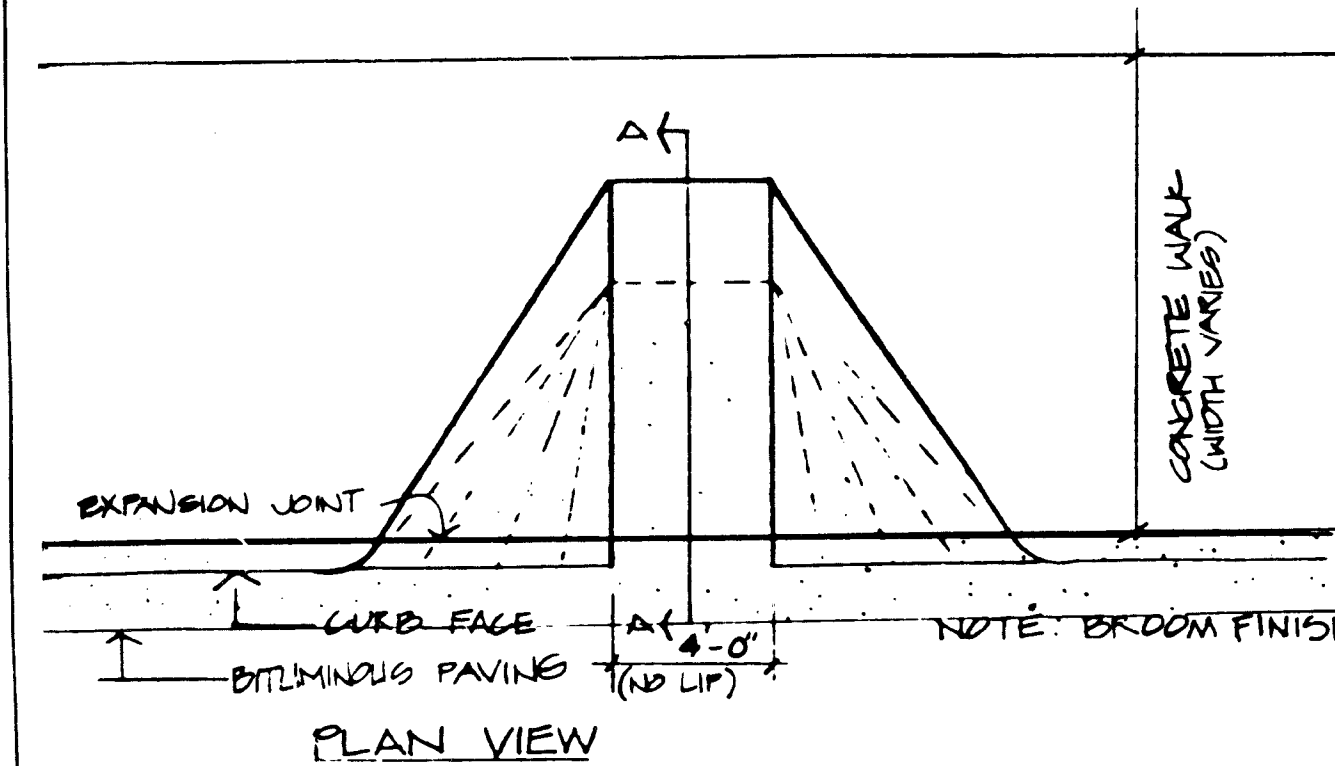
⑪ YARD INLET (N.T.S.)



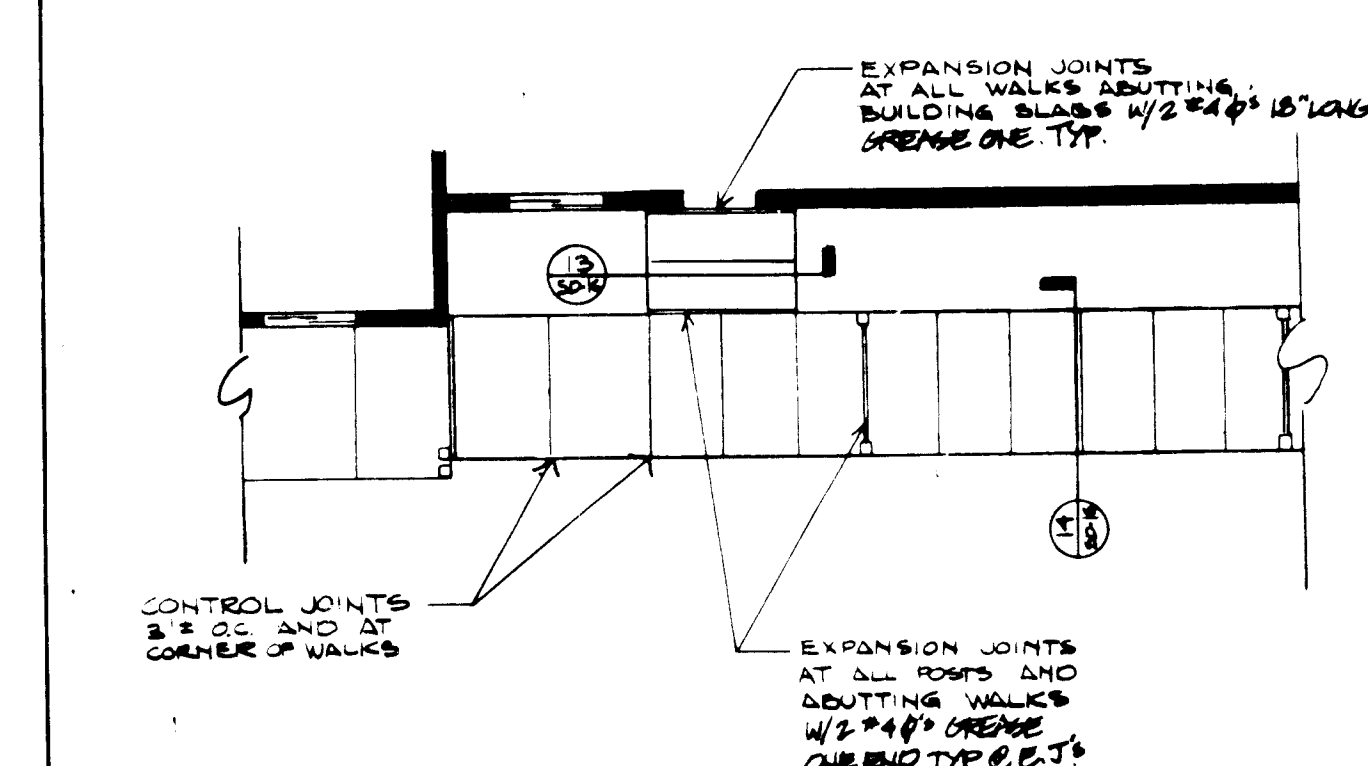
② P-2 PAVING SECTION (N.T.S.)



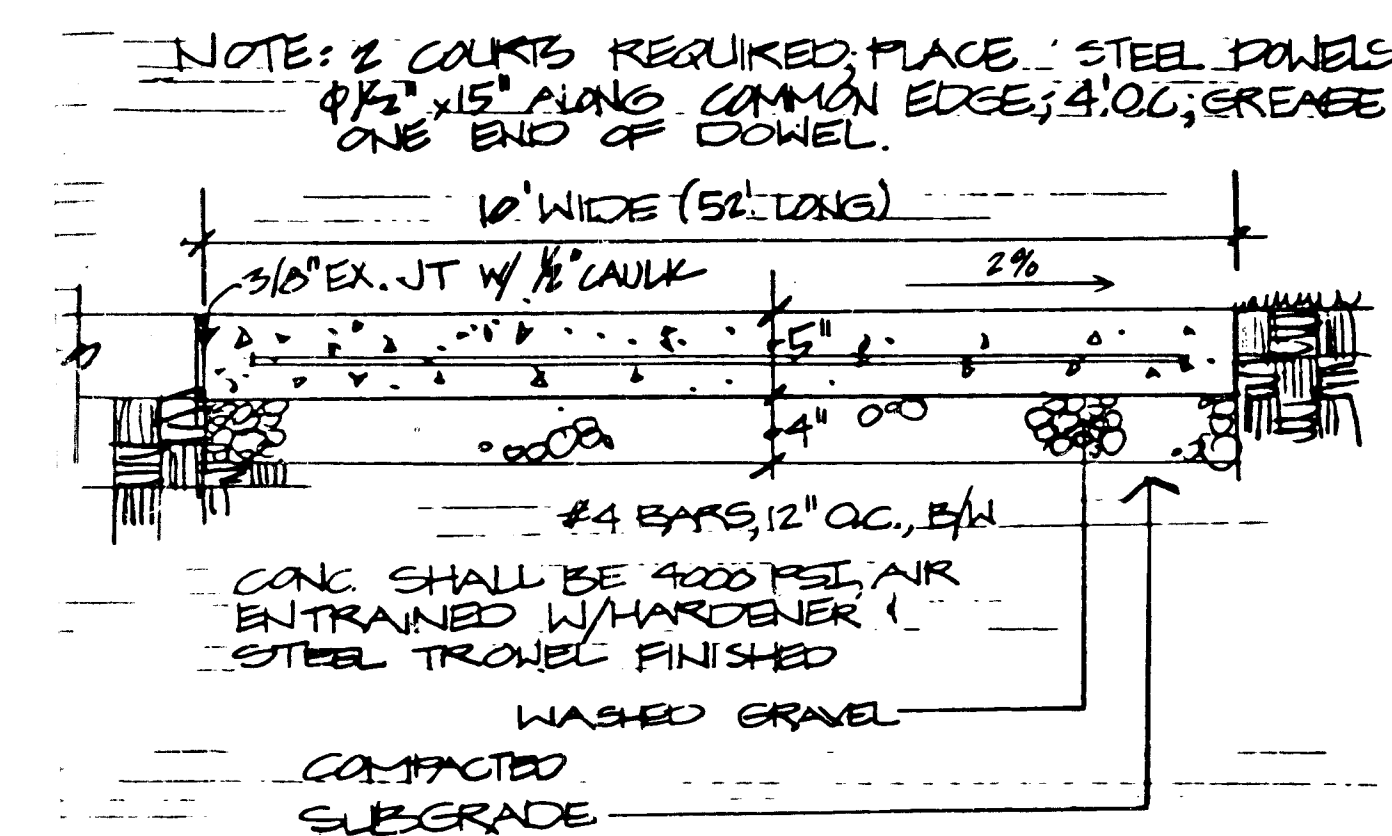
⑥ COMBINATION CURB & GUTTER 1" = 1'-0"



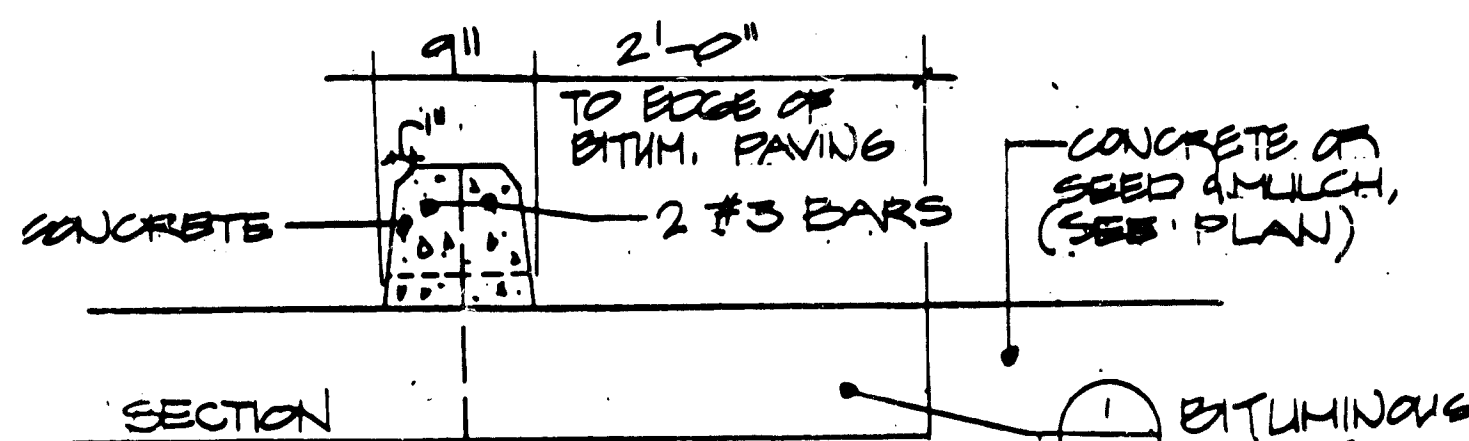
⑨ HANDICAPPED RAMP (N.T.S.)



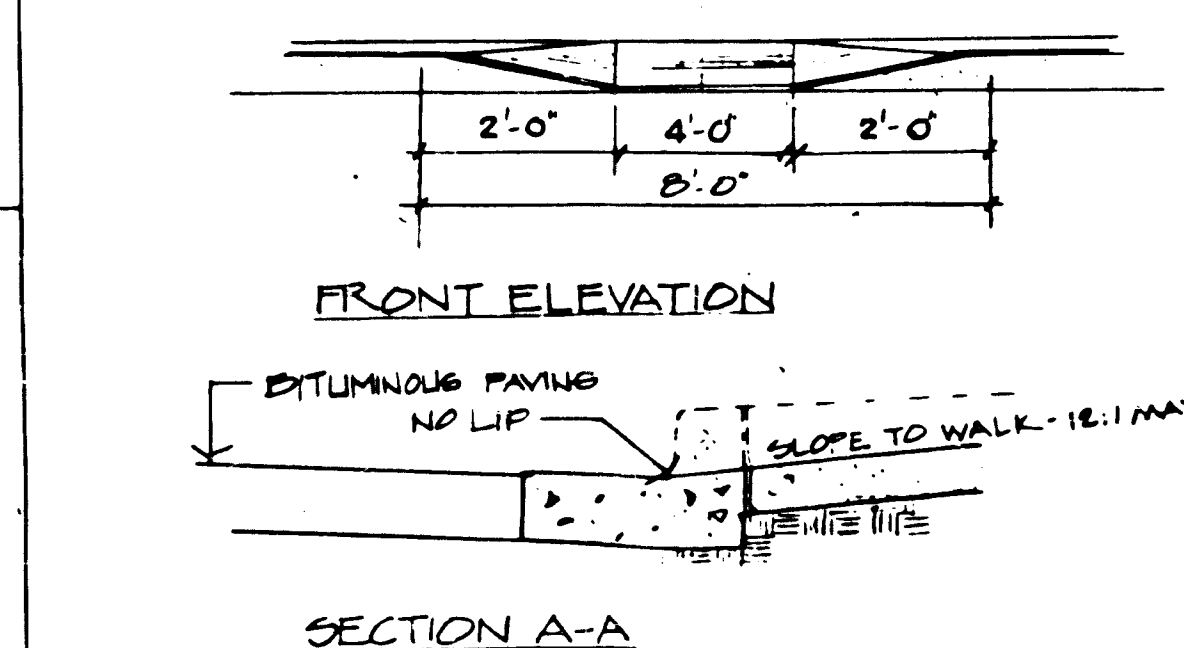
⑫ WALKWAY PLAN 1/8" = 1'-0"



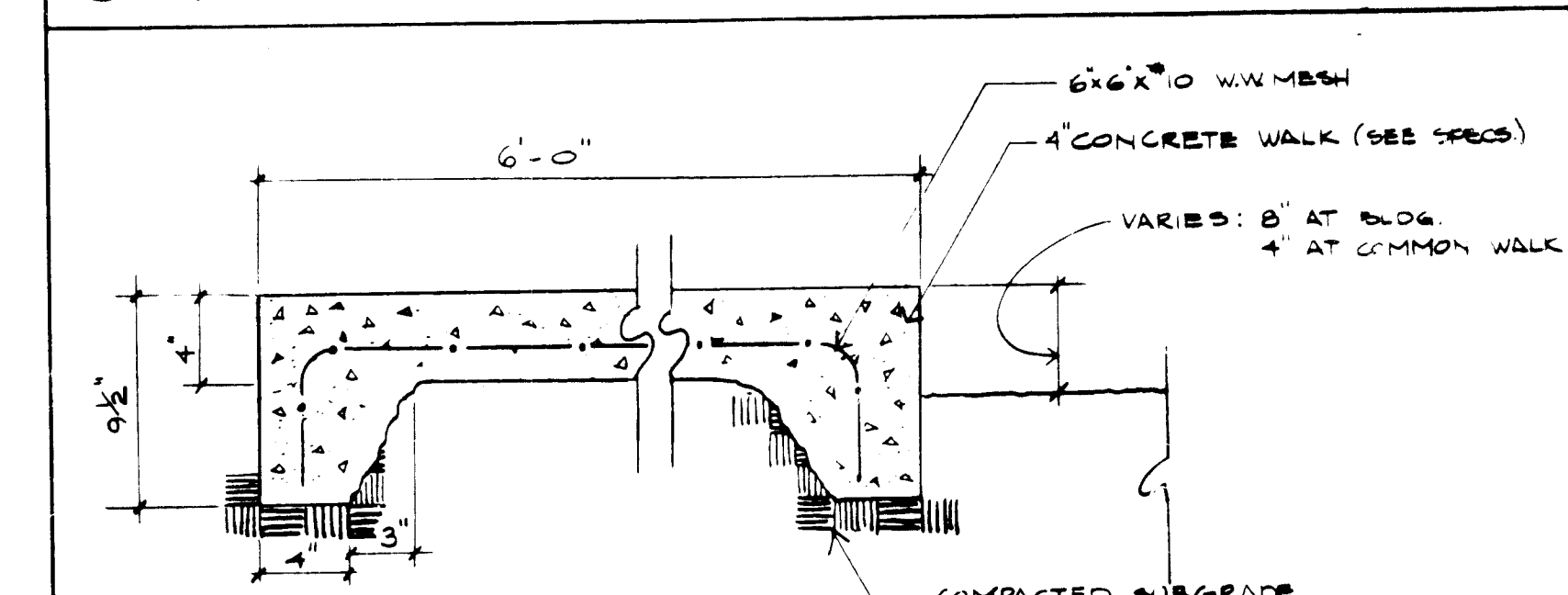
③ SHUFFLEBOARD COURT (N.T.S.)



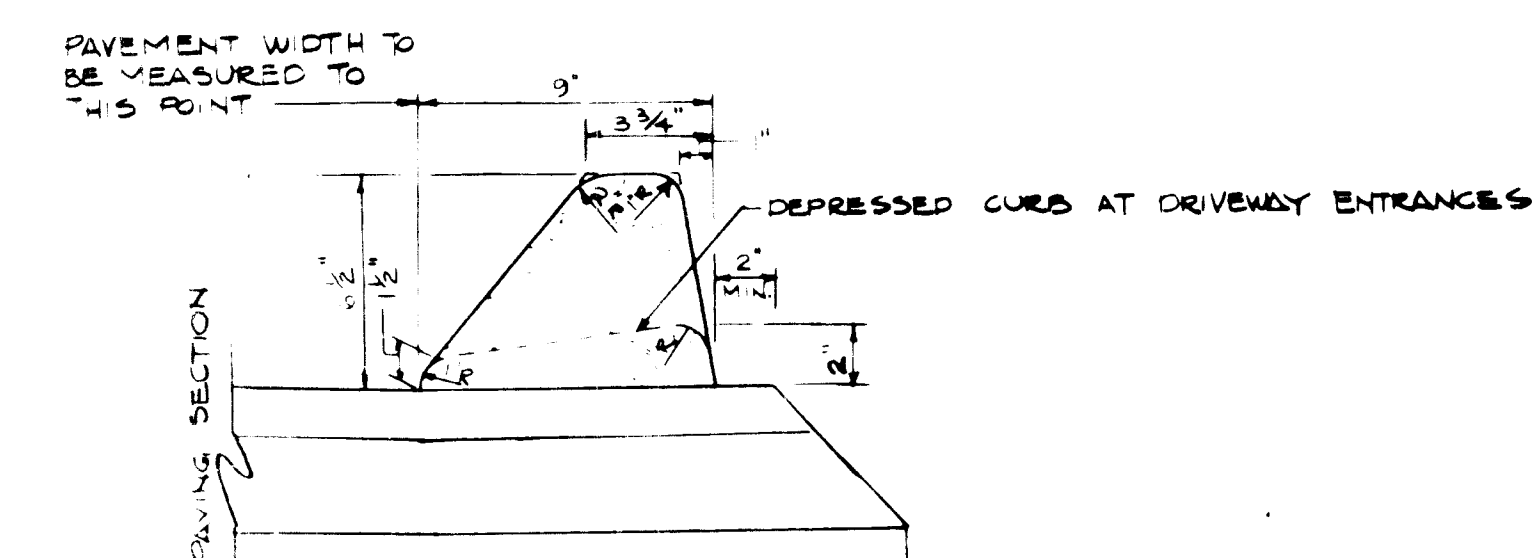
⑦ CONCRETE WHEELSTOPS (N.T.S.)



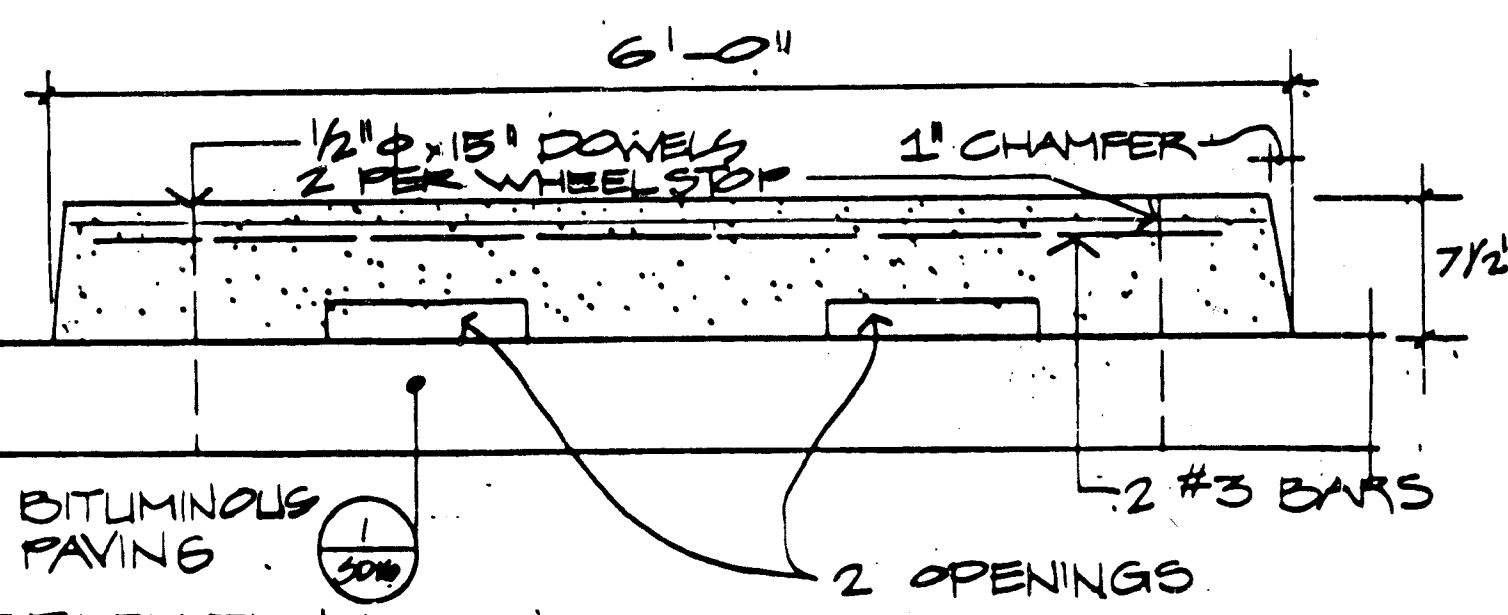
⑩ BRICK 'Y' (N.T.S.)



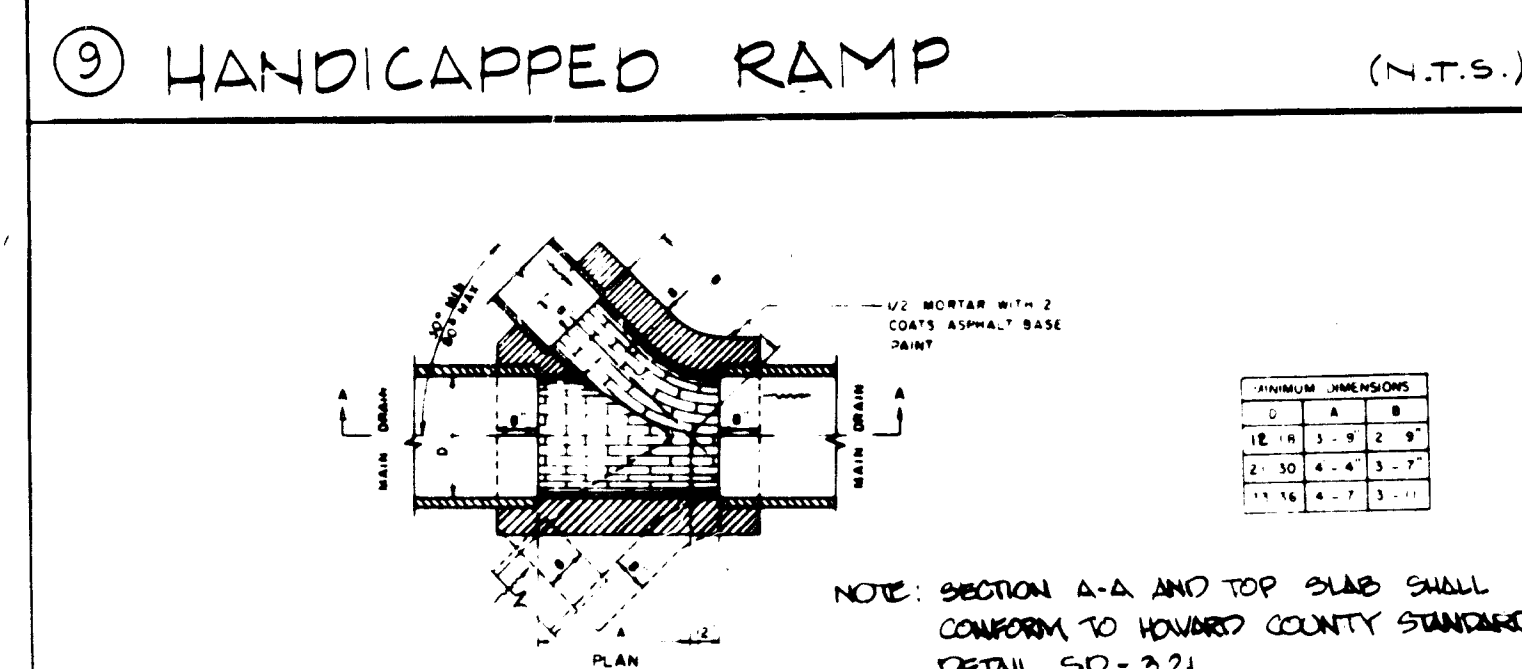
⑬ COMMON WALK 1/2" = 1'-0"



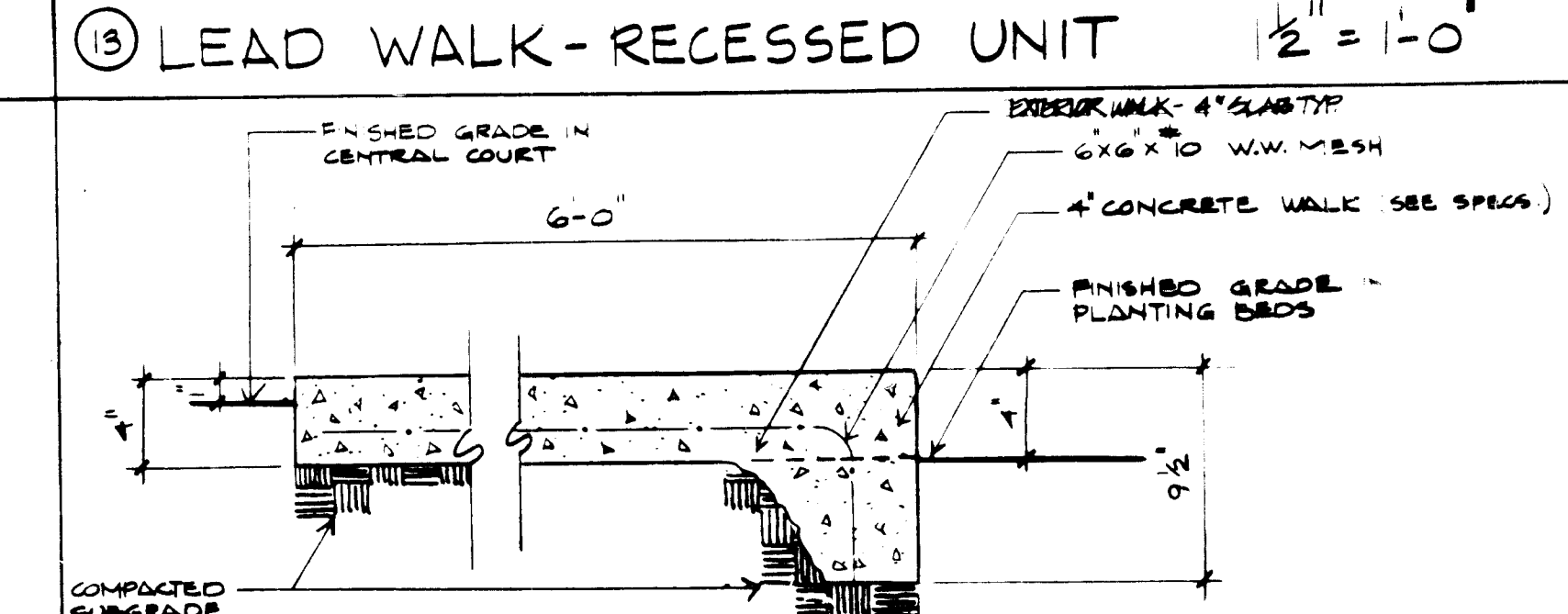
④ STANDARD BITUMINOUS CURB (N.T.S.)



⑧ BRICK 'Y' (N.T.S.)



⑩ BRICK 'Y' (N.T.S.)



⑬ COMMON WALK 1/2" = 1'-0"

APPROVED FOR PUBLIC WATER, PUBLIC SEWERAGE AND ROADS. HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS. HOWARD COUNTY HEALTH DEPARTMENT

Drawn by Seal

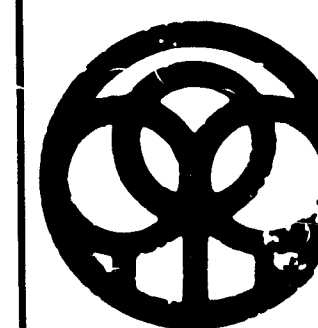
Checked

Cochran, Stephenson & Donkervoel Incorporated Architects 925 North Charles St. Baltimore MD 21201

Henry Adams Inc Consulting Engineers

George Evans Associates, Inc. Structural Engineers

Purdum & Jeschke Civil Engineers



DAFT M. CUNE WALKER, INC.

LAND PLANNING CONSULTANTS LANDSCAPE ARCHITECTS ENGINEERS

JOB NO. B-8115

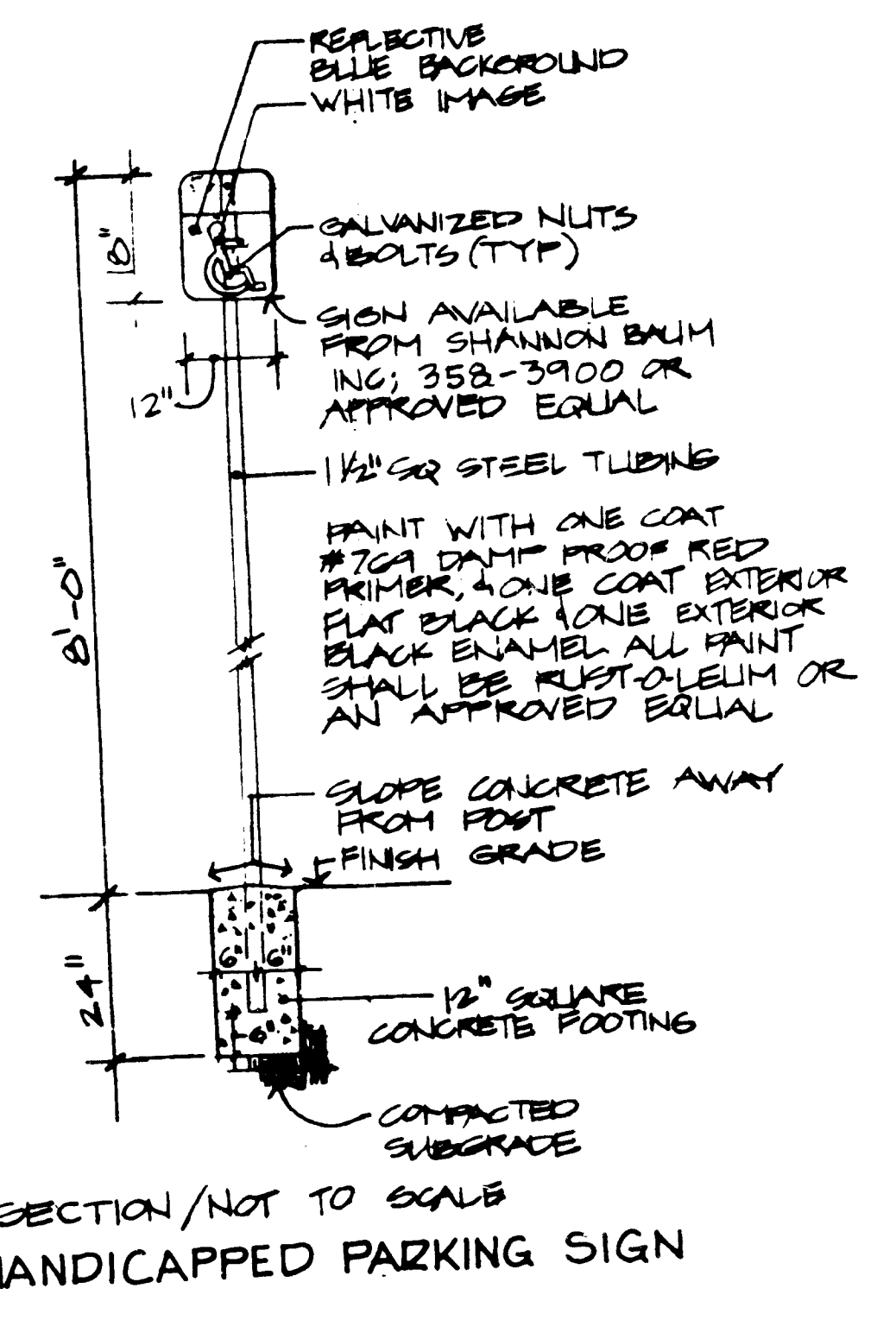
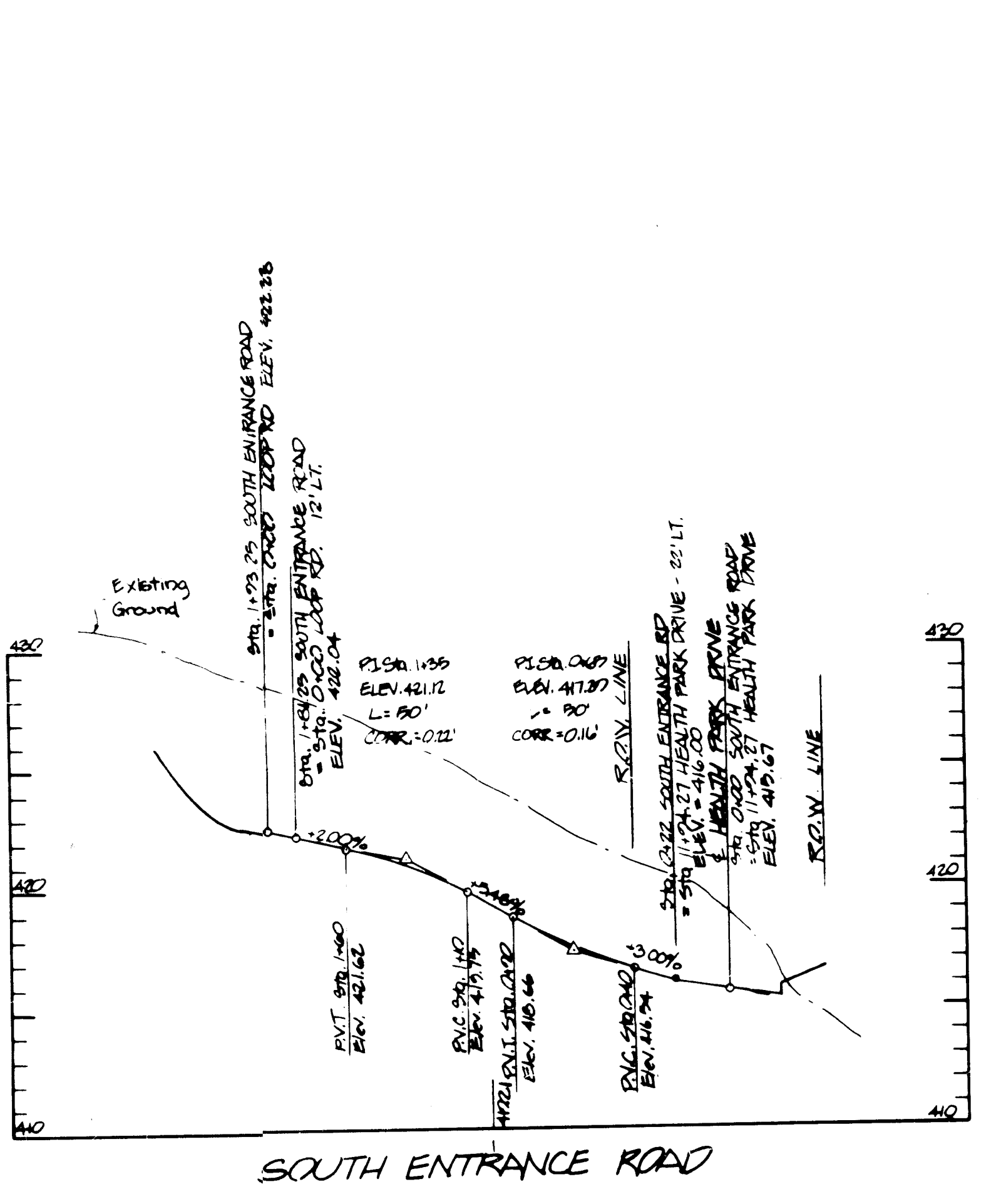
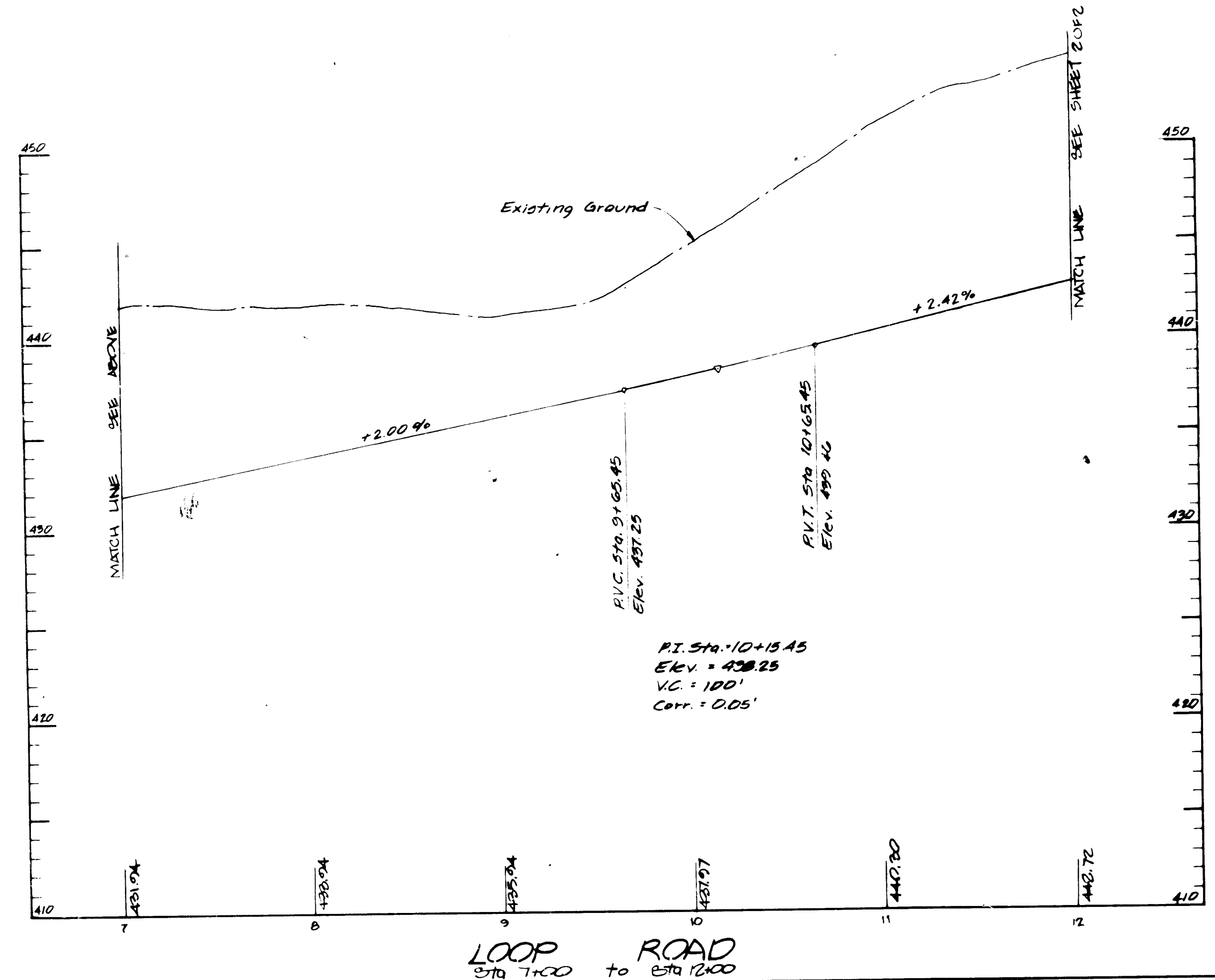
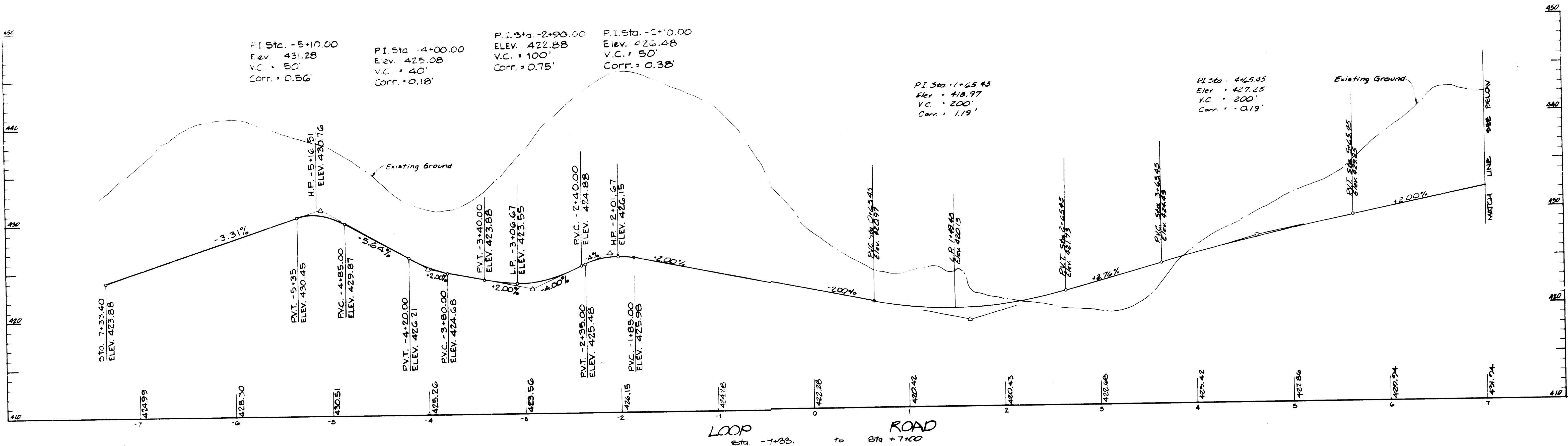
SITE DETAILS

BON SECOURS

HOWARD COUNTY HEALTH PARK PARCEL B-1 PARCELS 666 B 80 TAX MAP 17 201 ELECTION DISTRICT HOWARD COUNTY, MARYLAND SDP-82-75

Sheet SD-16

SHT. 16 OF 28



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

4-21-82
MA

APPROVED FOR PUBLIC WATER, PUBLIC SEWERAGE AND ZONING
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
DIRECTOR _____ DATE _____

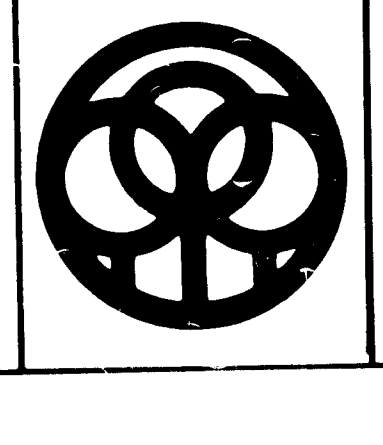
APPROVED HOWARD COUNTY OFFICE OF PLANNING AND ZONING
PLANNING DIRECTOR _____ DATE _____

APPROVED FOR PUBLIC WATER, AND PUBLIC SEWERAGE SYSTEMS HOWARD COUNTY HEALTH DEPARTMENT
COUNTY HEALTH OFFICER _____ DATE _____

Drawn by Seal
Checked
Seal of State of Maryland

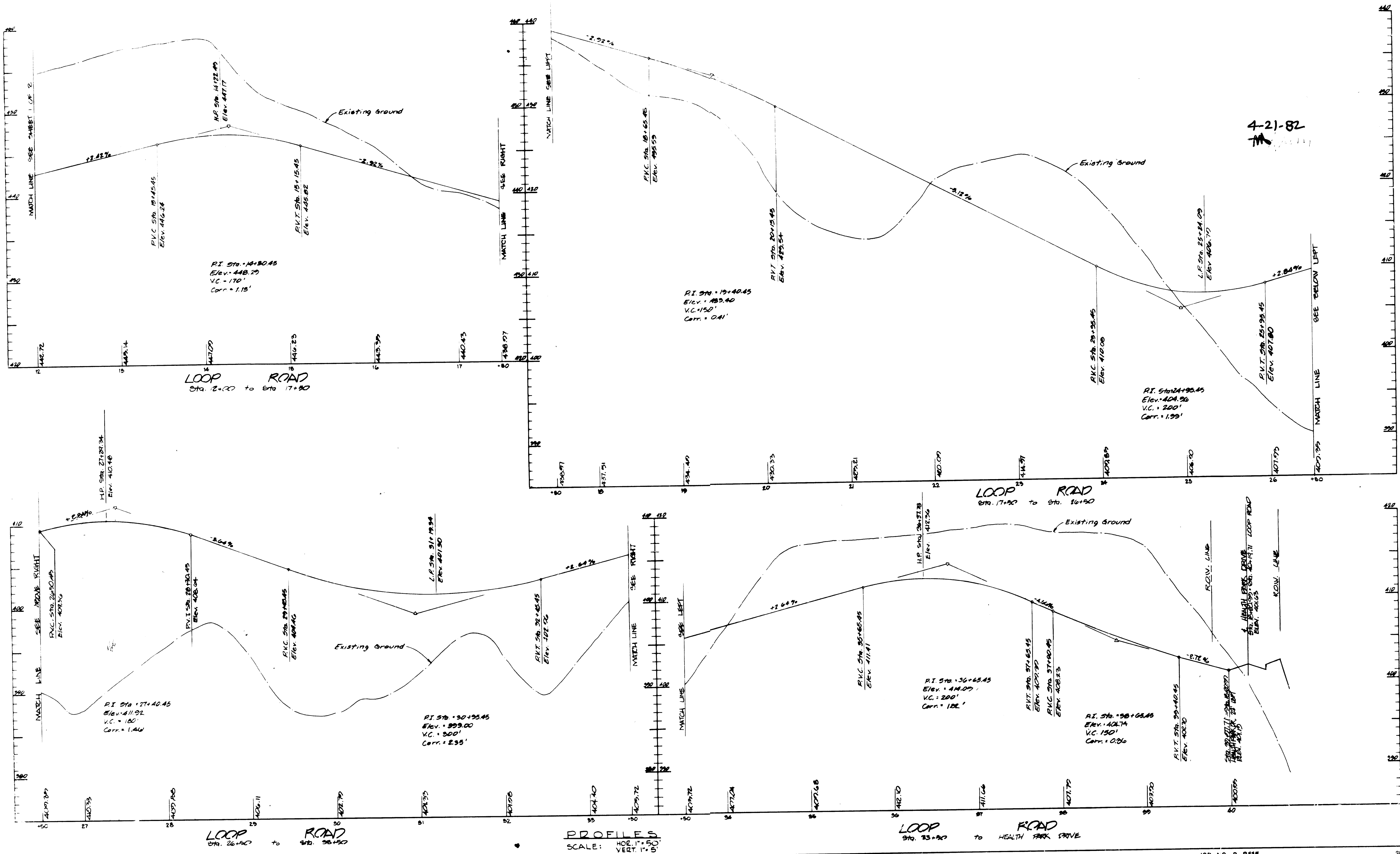
George Evans Associates, Inc.
Structural Engineers
Purdum & Jeschke
Civil Engineers

Cochran, Stephenson & Donkersvoet Incorporated Architects
925 North Charles St. Baltimore, Md. 21207
Henry Adams Inc.
Consulting Engineers



DAFI McCune Walker Inc.
LAND PLANNING CONSULTANTS
LANDSCAPE ARCHITECTS
ENGINEERS
530 E. JOPPA ROAD
TOWSON, MD. 21284
TELEPHONE: (301) 296-3333

ROAD PROFILES
BON SECOURS
HOWARD COUNTY HEALTH PARK
PARCEL B-1
2nd ELECTION DISTRICT
SDP-82-75
JOB NO. B-8115
Sheet SD-17
SHT. 17 OF 28



4-21-82
M

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

JOB NO. B-8115 Sheet SD-18

APPROVED FOR PUBLIC WATER, PUBLIC SEWERAGE AND ROADS
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
DIRECTOR _____ DATE _____

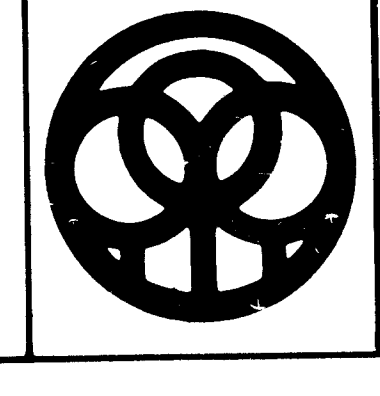
APPROVED HOWARD COUNTY OFFICE OF PLANNING AND ZONING
PLANNING DIRECTOR _____ DATE _____

APPROVED FOR PUBLIC WATER, AND PUBLIC SEWERAGE SYSTEMS HOWARD COUNTY HEALTH DEPARTMENT
COUNTY HEALTH OFFICER _____ DATE 6-1-87

Drawn by _____ Seal _____
Checked _____

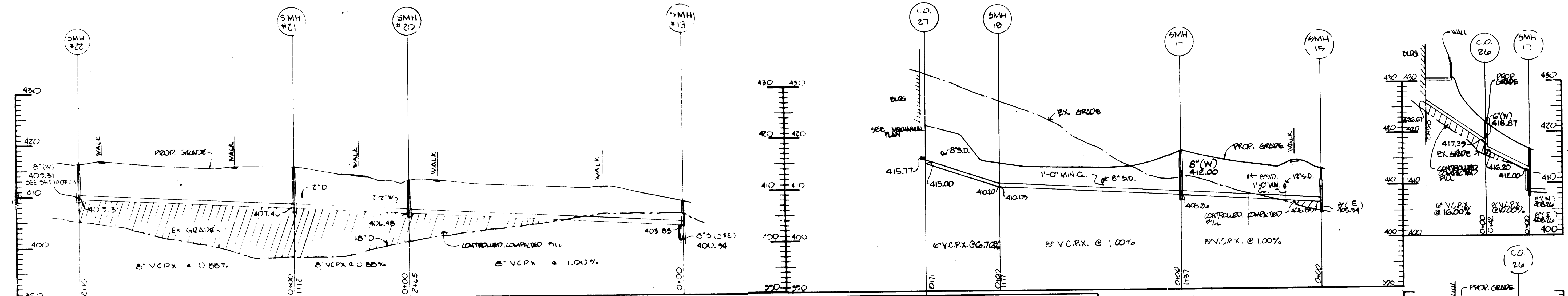
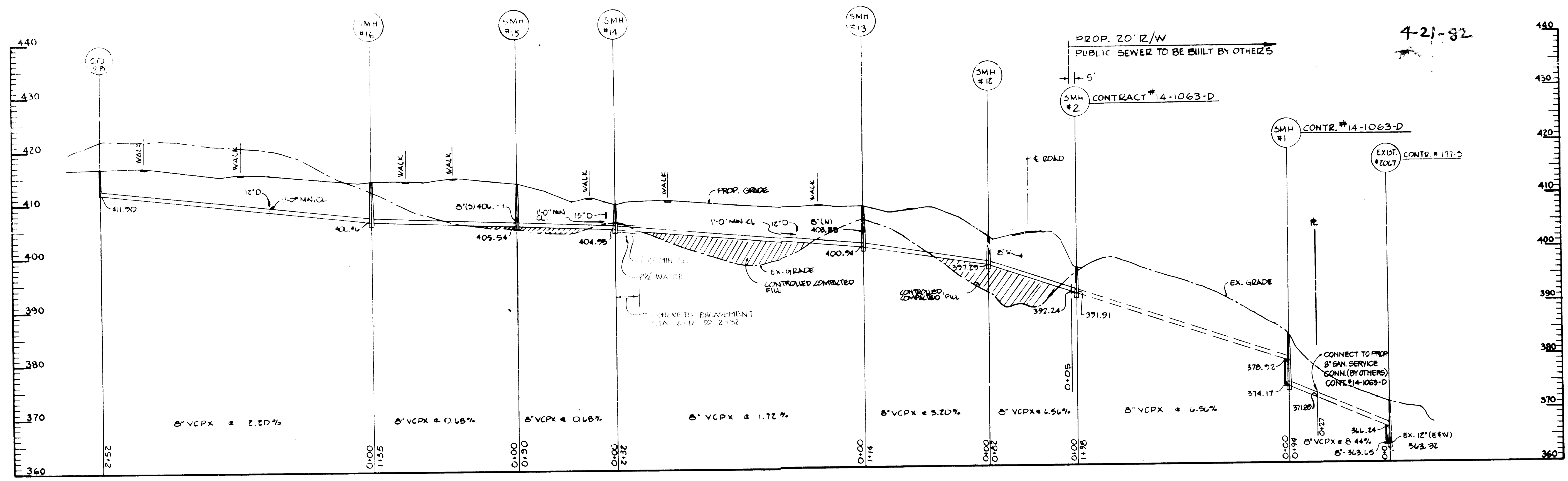
George Evans Associates, Inc.
Structural Engineers
Purdum & Jeschke
Civil Engineers

Cochran, Stephenson & Dankervoet
Incorporated Architects
925 North Charles St. Baltimore, Md. 21201
Henry Adams Inc.
Consulting Engineers



DAFT-McCUNE-WALKER INC.
LAND PLANNING CONSULTANTS
LANDSCAPE ARCHITECTS
ENGINEERS
630 E. JOPPA ROAD
TOWSON, MD. 21284
TELEPHONE: (301) 296-3333

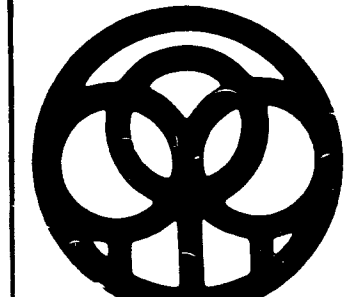
ROAD PROFILES
BON SECOURS
HOWARD COUNTY HEALTH PARK
PARCEL B-1
PARCELS 666 & 60, TAX MAP 17
284 ELECTION DISTRICT HOWARD COUNTY, MARYLAND
SDP-82-75

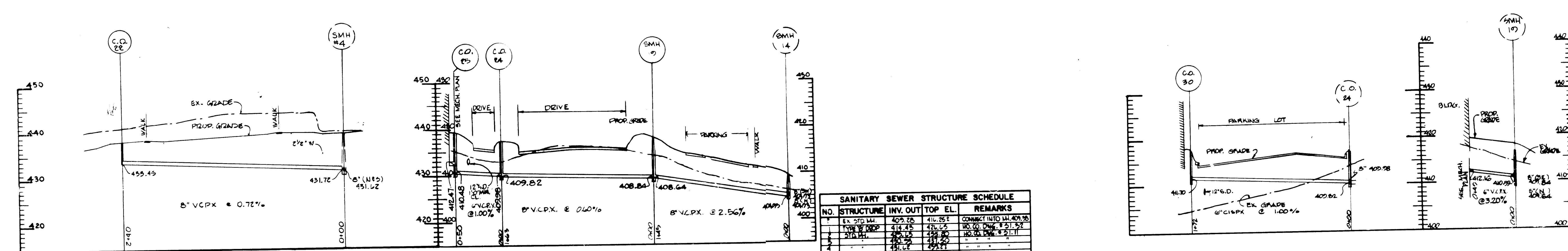
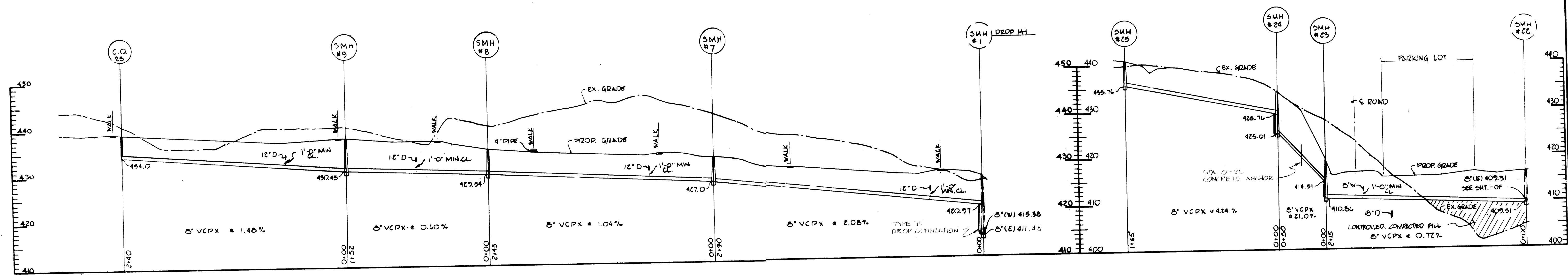
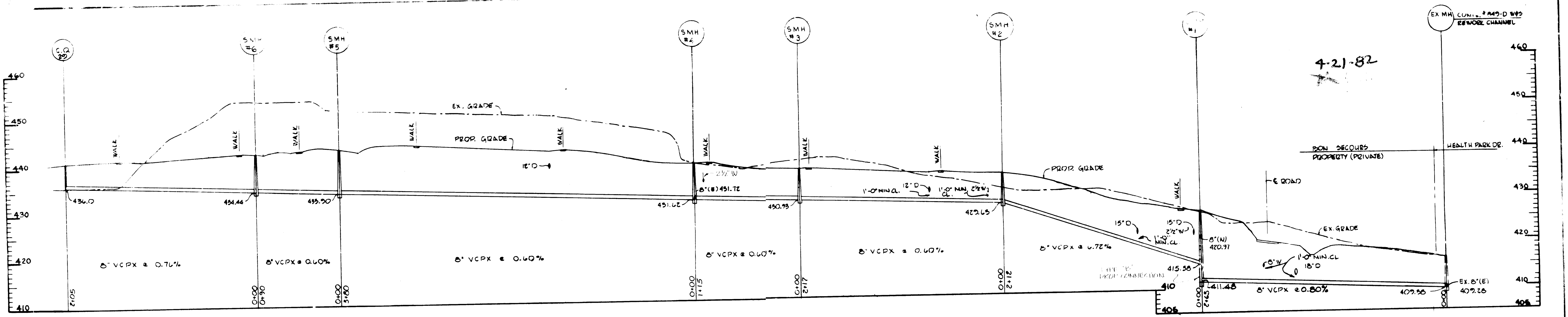


SANITARY SEWER STRUCTURE SCHEDULE

NO.	STRUCTURE	INV. OUT	TOP EL.	REMARKS	NO.	STRUCTURE	INV. OUT	TOP EL.	REMARKS
20.7	EX. STD. MH.	365.52	571.23	EXIST. DEEP CONNECTION	20	STD. MH.	404.46	412.10	HO. CO. DWG. #51.11
12	STD. MH.	357.89	408.00	HO. CO. DWG. #51.11	21	STD. MH.	407.46	415.25	"
15	TYPE K DROP	400.75	408.00	HO. CO. DWG. #51.32	22	STD. MH.	409.51	416.20	HO. CO. DWG. #51.11
14	STD. MH.	404.75	409.18	HO. CO. DWG. #51.11	23	CLEAN OUT	415.00	416.20	HO. CO. DWG. #51.32
15	STD. MH.	405.54	415.40	"	24	CLEAN OUT	416.20	419.00	HO. CO. DWG. #51.32
16	STD. MH.	404.46	415.75	"	25	CLEAN OUT	410.48	419.20	"
17	STD. MH.	408.24	417.00	"	26	CLEAN OUT	409.32	418.00	"
18	STD. MH.	406.05	419.00	HO. CO. DWG. #51.11	27	CLEAN OUT	411.70	418.00	"

PROFILES
SCALE: HOR. 1" = 50'
VERT. 1" = 10'

APPROVED FOR PUBLIC WATER, PUBLIC SEWERAGE AND ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS DIRECTOR _____ DATE _____	APPROVED HOWARD COUNTY OFFICE OF PLANNING AND ZONING PLANNING DIRECTOR _____ DATE _____	APPROVED FOR PUBLIC WATER, AND PUBLIC SEWERAGE SYSTEMS HOWARD COUNTY HEALTH DEPARTMENT COUNTY HEALTH OFFICER _____ DATE 6/2/82	Drawn by _____ Seal _____ Checked _____	George Evans Associates, Inc. Structural Engineers Purdum & Jeschke Civil Engineers	Cochran, Stephenson & Danisvoet Incorporated Architects 826 North Charles St Baltimore, Md. 21201 Henry Adams Inc Consulting Engineers		DAFT · McCUNE · WALKER INC. LAND PLANNING CONSULTANTS LANDSCAPE ARCHITECTS ENGINEERS 530 E. JOPPA ROAD TOWSON, MD. 21284 TELEPHONE: (301) 296-3333	SEWER PROFILES BON SECOURS HOWARD COUNTY HEALTH PARK PARCEL B-1 PARCELS 666 & 80, TAX MAP 17 2 ND ELECTION DISTRICT HOWARD COUNTY, MARYLAND SDP-82-75
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PROFILES
SCALE: HOR. 1" = 50'
VERT. 1" = 10'

SANITARY SEWER STRUCTURE SCHEDULE				
NO.	STRUCTURE	INV. OUT	TOP EL.	REMARKS
1	EX. STD. MH	409.25	416.25	CONNECT INTO MH 409.25
2	TYPE 'B' DROP	416.45	426.65	NO. CO. DIA. 3' 21.11'
3	"	426.65	436.85	NO. CO. DIA. 3' 21.11'
4	"	436.85	447.05	"
5	"	447.05	457.25	"
6	"	457.25	467.45	"
7	TYPE 'A' MH	416.45	426.65	NO. CO. DIA. 3' 21.11'
8	TYPE 'A' MH	426.65	436.85	NO. CO. DIA. 3' 21.11'
9	TYPE 'A' MH	436.85	447.05	NO. CO. DIA. 3' 21.11'
10	TYPE 'A' MH	447.05	457.25	NO. CO. DIA. 3' 21.11'
11	TYPE 'A' MH	457.25	467.45	NO. CO. DIA. 3' 21.11'
12	CLEAN OUT	416.45	426.65	NO. CO. DIA. 3' 21.11'
13	CLEAN OUT	426.65	436.85	NO. CO. DIA. 3' 21.11'

APPROVED FOR PUBLIC WATER, PUBLIC SEWERAGE AND ZONING: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS. DATE: _____

APPROVED HOWARD COUNTY OFFICE OF PLANNING AND ZONING: _____ DATE: _____

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS: HOWARD COUNTY HEALTH DEPARTMENT. COUNTY HEALTH OFFICER: _____ DATE: 6/12/89

Drawn by: _____ Seal: _____ Checked: _____

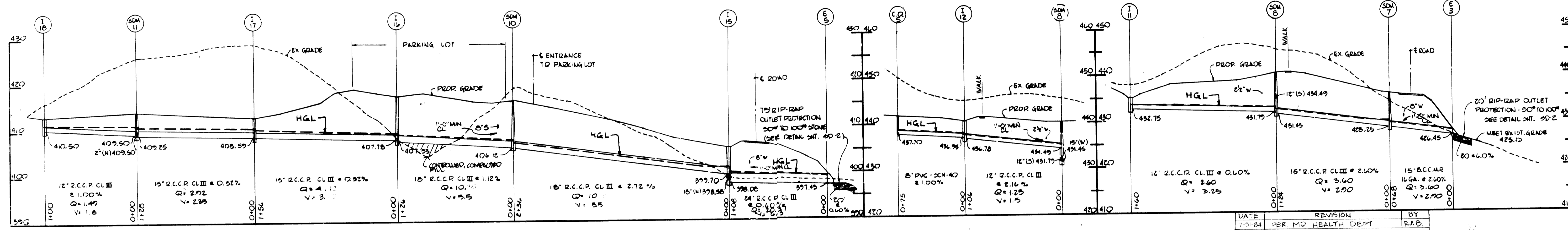
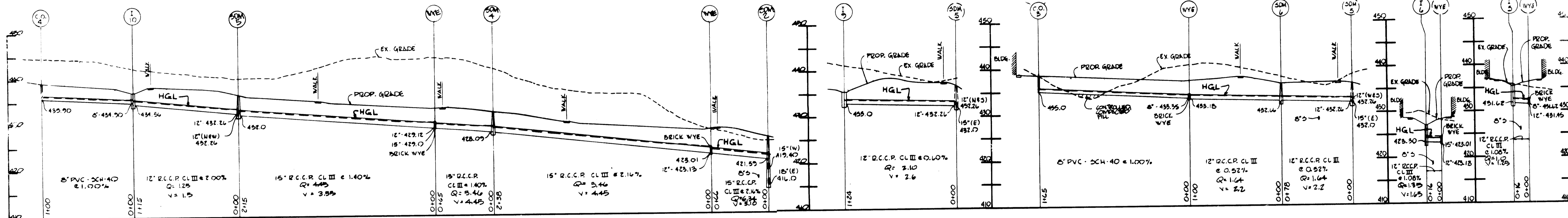
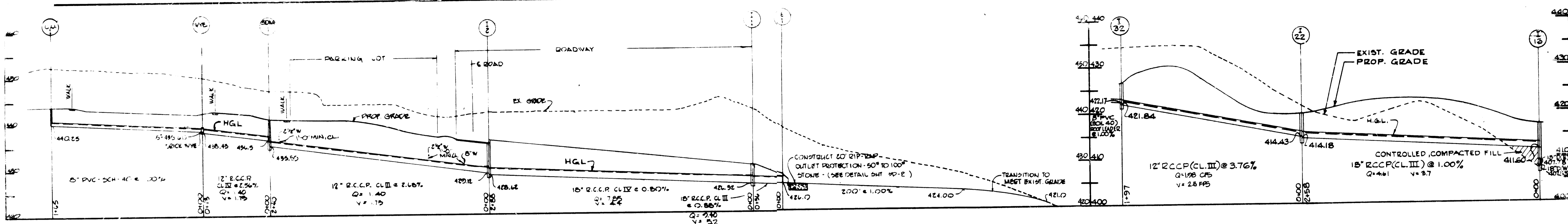
George Evans Associates, Inc. Structural Engineers
Purdum & Jeschke Civil Engineers

Cochran, Stephenson & Donkervoet Incorporated Architects Engineers
925 North Charles St. Baltimore, Md. 21201
Henry Adams Inc. Consulting Engineers

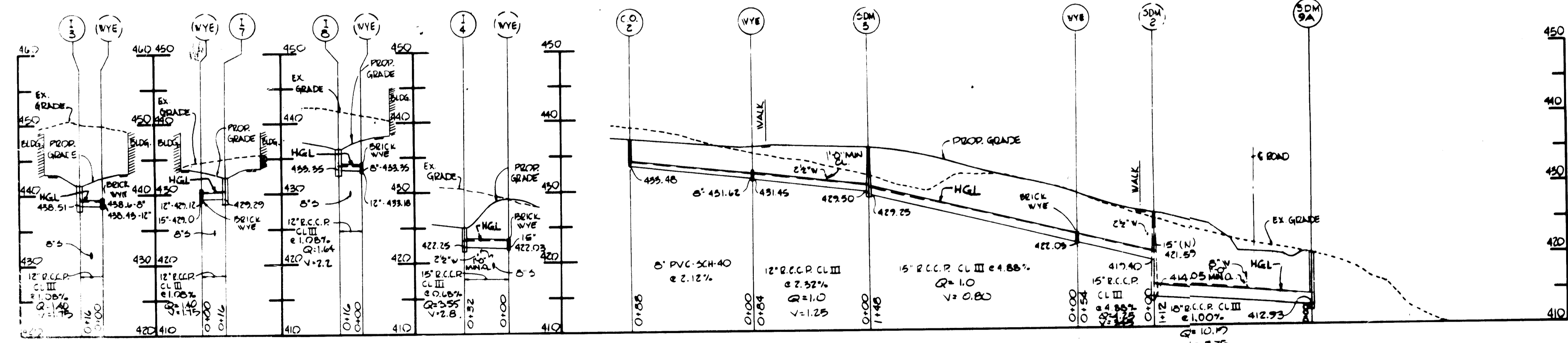
DAFT - McCUNE - WALKER INC. LAND PLANNING CONSULTANTS, LANDSCAPE ARCHITECTS, ENGINEERS
530 E. JOPPA ROAD, TOWSON, MD. 21284, TELEPHONE: (301) 298-3333

SEWER PROFILES
BON SECOURS
HOWARD COUNTY HEALTH PARK
PARCEL B-1
PARCELS 666 & 80, TAX MAP 17
ELECTION DISTRICT 200
HOWARD COUNTY, MARYLAND
SDP-82-75

JOB NO. B-8115
DATE: _____
Sheet SD-20
SHT. 20 OF 28



DATE	REVISION	BY
7-31-84	PER MD HEALTH DEPT	RAB



PROFILES
SCALE: HOR. 1" = 50'
VERT. 1" = 10'

STORM DRAIN STRUCTURE SCHEDULE									
NO.	STRUCTURE	INV. OUT	TOP EL.	REMARKS	NO.	STRUCTURE	INV. OUT	TOP EL.	REMARKS
E-1	CONC END SECT	426.00	427.75	HO. CO. DNG. #505.91	E-5	METAL END SECT	427.45	427.70	HO. CO. DNG. #505.14
I-1	15" COMB.	426.32	430.40	HO. CO. DNG. #504.92	E-5	CONC END SECT	427.45	427.70	HO. CO. DNG. #505.91
I-2	15" COMB.	428.22	436.22	HO. CO. DNG. #504.92	M-11	TYPE A-5	435.59	441.00	HO. CO. DNG. #505.02
I-3	YARD INLET	438.21	441.80	HO. CO. DNG. #504.14	M-11	TYPE A-2	434.05	424.50	"
I-4	TYPE 3	422.25	425.00	HO. CO. DNG. #504.22	M-3	TYPE A-2	428.25	455.75	"
I-5	YARD INLET	431.02	435.00	HO. CO. DNG. #504.14	M-4	TYPE A-3	428.09	422.40	"
I-6	"	425.90	427.00	"	M-5	TYPE A-3	426.00	426.35	"
I-7	"	425.29	432.30	"	M-6	TYPE A-3	432.66	436.10	"
I-8	YARD INLET	435.55	436.10	HO. CO. DNG. #504.14	M-7	TYPE A-2	428.73	425.90	HO. CO. DNG. #503.02
I-9	TYPE 3	435.00	435.00	HO. CO. DNG. #504.22	M-8	TYPE A-2	431.45	440.05	"
I-10	YARD INLET	434.56	437.05	HO. CO. DNG. #504.14	M-10	TYPE A-2	406.12	416.00	HO. CO. DNG. #503.02
I-11	TYPE 3	432.75	435.25	HO. CO. DNG. #504.22	M-11	TYPE A-3	409.25	414.10	HO. CO. DNG. #503.02
I-12	YARD INLET	436.75	440.45	HO. CO. DNG. #504.14	C.O. 1	CLEAN OUT	440.25	443.00	HO. CO. DNG. #503.21
I-13	TYPE 3	396.00	406.00	HO. CO. DNG. #504.14	C.O. 2	"	433.45	437.15	"
I-14	TYPE 3	407.25	417.10	HO. CO. DNG. #504.14	C.O. 3	"	435.00	438.50	"
I-15	TYPE 3	408.59	413.00	HO. CO. DNG. #504.14	C.O. 4	"	435.90	439.10	"
I-16	TYPE 3	410.50	415.00	HO. CO. DNG. #504.22	C.O. 5	CLEAN OUT	427.10	441.10	HO. CO. DNG. #503.21
					WYE	BRICK WYE			HO. CO. DNG. #503.21

4-21-82
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APPROVED FOR PUBLIC WATER, PUBLIC SEWERAGE AND ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

APPROVED HOWARD COUNTY OFFICE OF PLANNING AND ZONING

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS HOWARD COUNTY HEALTH DEPARTMENT

Drawn by: [Signature]

Checked: [Signature]

George Evans Associates Inc. Structural Engineers

Purdum & Jeschke Civil Engineers

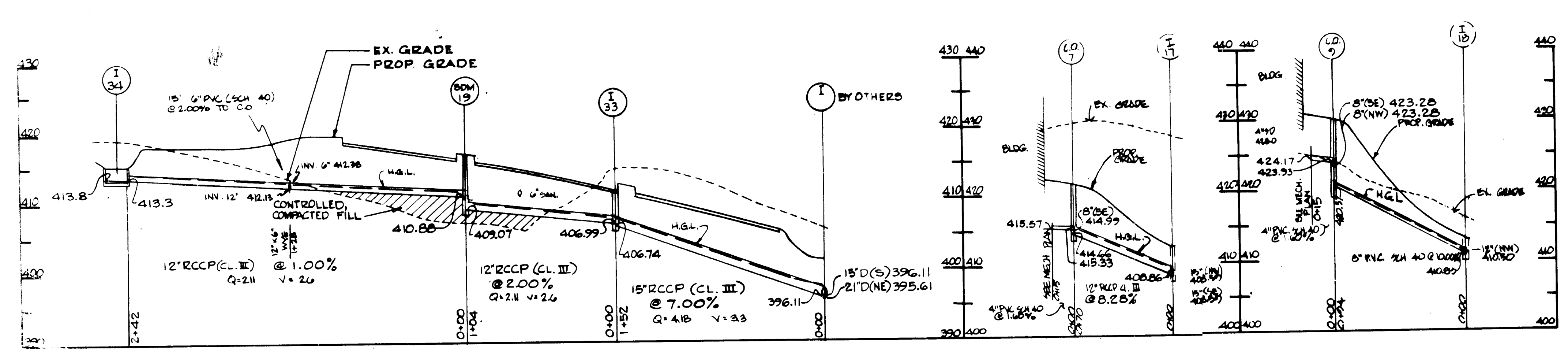
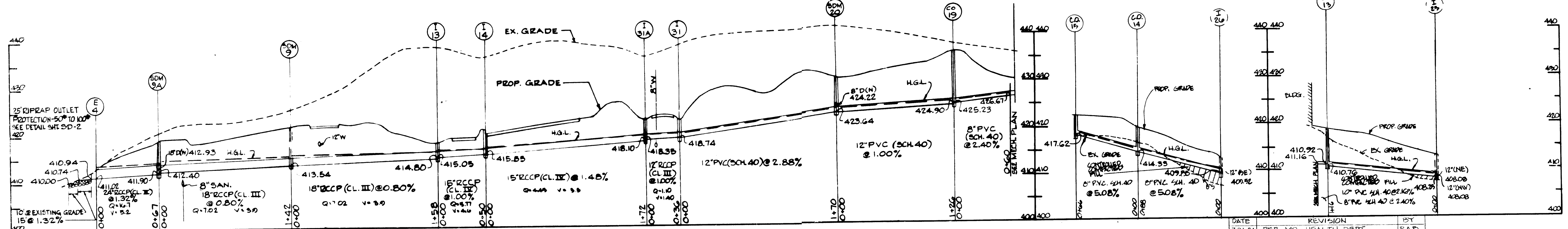
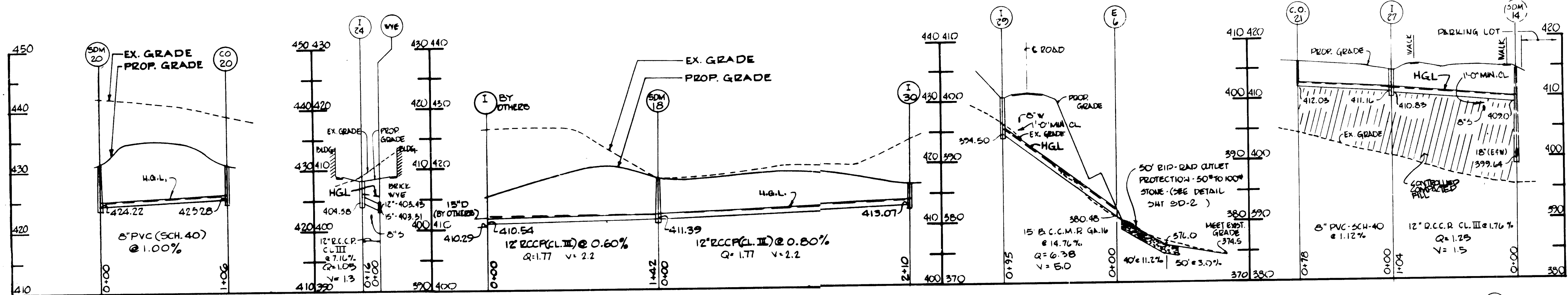
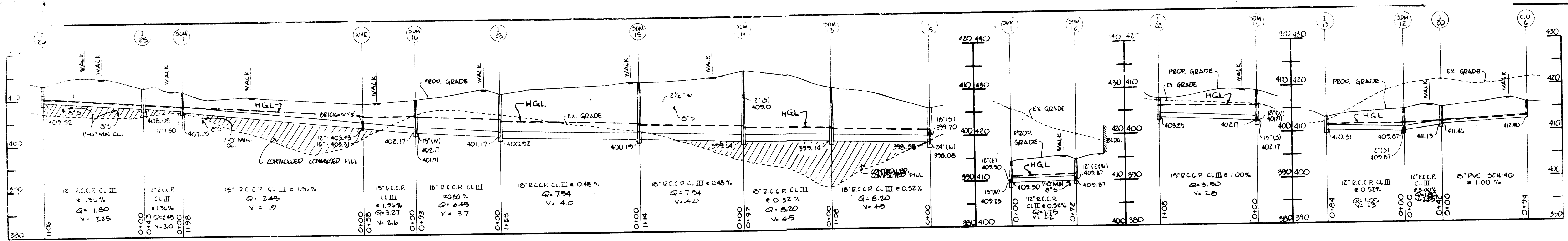
Cochran, Stephenson & Donkervoet Incorporated Architects 828 North Charles St. Baltimore, Md. 21201

Henry Adams Inc. Consulting Engineers

DAFT-McCUNE-WALKER, INC. LAND PLANNING CONSULTANTS LANGSHIRE ARCHITECTS ENGINEERS 530 E. JOPPA ROAD TOWNSHIP, MD 21284 TELEPHONE (301) 282-3352 3801 TOWN HILLS ROAD SUITE 107 COLUMBIA, MD 21046 TELEPHONE (301) 882-0225 FAX (301) 821-5807

STORM DRAIN PROFILES BON SECOURS HOWARD COUNTY HEALTH PARK PARCEL B-1 PARCELS 666 & 80, TAX MAP 17 2ND ELECTION DISTRICT HOWARD COUNTY, MARYLAND SDP-82-75

JOB NO. B-8115 Sheet SD-21



PROFILES
 HOR. 1" = 50'
 SCALE: VERT. 1" = 10'

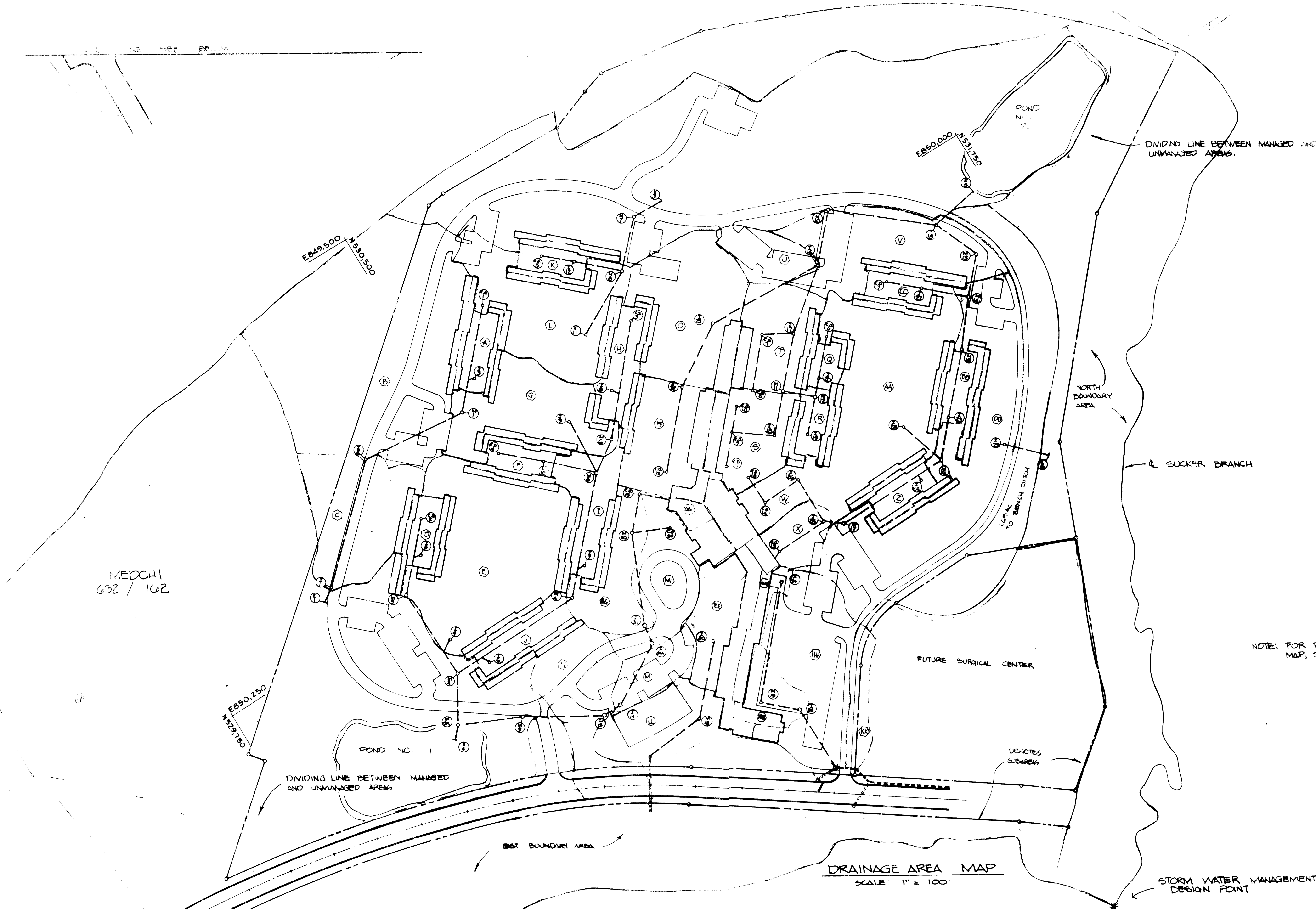
DATE	REVISION	BY
7-31-84	PER MD HEALTH DEPT	RAD

STORM DRAIN STRUCTURE SCHEDULE				
NO.	STRUCTURE	INV. OUT	TOP EL.	REMARKS
E-4	CONK END SECT.	410.94	412.94	HO. CO. DNG. #505.1
E-5	METAL END SECT.	380.45	381.15	HO. CO. DNG. #505.1
I-1	TYPE 'S'	414.60	418.00	HO. CO. DNG. #504.22
I-2	YARD INLET	415.55	419.70	HO. CO. DNG. #504.22
I-3	YARD INLET	410.31	415.10	HO. CO. DNG. #504.14
I-4	YARD INLET	411.15	414.80	HO. CO. DNG. #504.22
I-5	TYPE 'S'	421.64	424.30	HO. CO. DNG. #504.22
I-6	TYPE 'S'	414.15	419.50	HO. CO. DNG. #504.14
I-7	YARD INLET	400.92	408.75	HO. CO. DNG. #504.14
I-8	YARD INLET	408.08	412.50	HO. CO. DNG. #504.14
I-9	TYPE 'S'	409.58	412.90	HO. CO. DNG. #504.14
I-10	TYPE 'S'	409.25	406.00	HO. CO. DNG. #504.14
I-11	YARD INLET	394.50	400.50	HO. CO. DNG. #504.14
I-12	YARD INLET	413.07	412.50	HO. CO. DNG. #504.14

CLEANOUTS *		
NO.	INV. OUT	TOP ELEV.
8	416.24	421.50
9	420.51	430.00
10	423.84	428.00
11	423.99	430.00
12	423.68	431.00
13	410.76	419.00
14	414.32	419.50
15	417.62	422.50
16	412.68	419.00
17	424.52	436.10
18	428.75	431.00
19	422.05	416.00

4-21-82
 JAB

APPROVED FOR PUBLIC WATER, PUBLIC SEWERAGE AND ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS DIRECTOR _____ DATE _____ CHIEF, BUREAU OF ENGINEERS _____	APPROVED HOWARD COUNTY OFFICE OF PLANNING AND ZONING PLANNING DIRECTOR _____ DATE _____ CHIEF DIV. OF LAND DEVELOPMENT AND ZONING ADMINISTRATION _____	APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS HOWARD COUNTY HEALTH DEPARTMENT COUNTY HEALTH OFFICER _____ DATE 6-16-87	Drawn by _____ Seal _____ Checked _____	George Evans Associates, Inc. Structural Engineers Purdum & Jeschke Civil Engineers	Cochran, Stephenson & Donkervoel Incorporated Architects 976 North Charles St. Baltimore, Md. 21201 Henry Adams Inc. Consulting Engineers	DRAFT-MCCUNE-WALKER, INC. LAND PLANNING CONSULTANTS ARCHITECTS AND ENGINEERS 550 E. JOPPA ROAD OXFORD, MD 21224 TELEPHONE (301) 796-3388 5601 TWIN KINGS ROAD, SUITE 107 COLUMBIA, MD 21046 TELEPHONE (301) 992-0427 FAX (301) 321-3222	STORM DRAIN PROFILES BON SECOURS HOWARD COUNTY HEALTH PARK PARCEL B-1 PARCELS 686 & 80 2ND ELECTION DISTRICT HOWARD COUNTY, MARYLAND SDP-82-75
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NOTE: FOR PRE-DEVELOPMENT DRAINAGE AREA MAP, SEE SHEET 9.

MEDCHI
632 / 162

4-21-82
JWC

DESIGNED BY
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
DATE

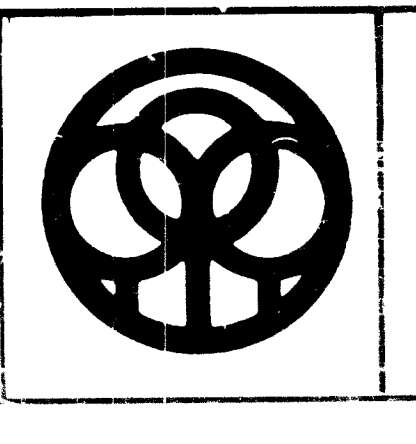
APPROVED
HOWARD COUNTY OFFICE OF PLANNING AND ZONING
PLANNING DIRECTOR
DATE

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS
HOWARD COUNTY HEALTH DEPARTMENT
COUNTY HEALTH OFFICER
DATE

Drawn by
Checked
Seal
[Signature]

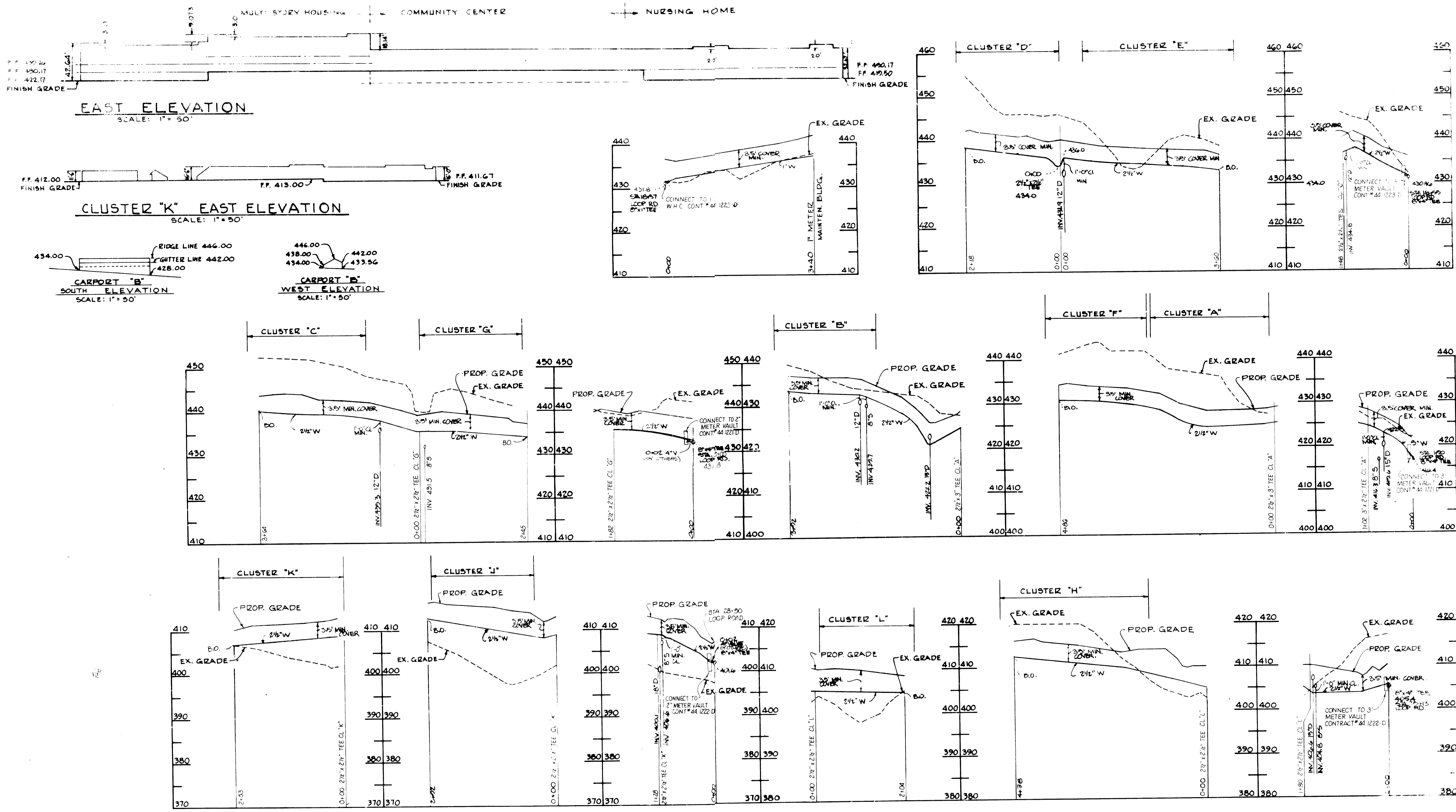
George Evans Associates, Inc.
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Purdum & Jeschke
Civil Engineers

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925 North Charles St. Baltimore Md. 21201
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TELEPHONE (410) 301-982-0025
WASH. (301) 621-5807

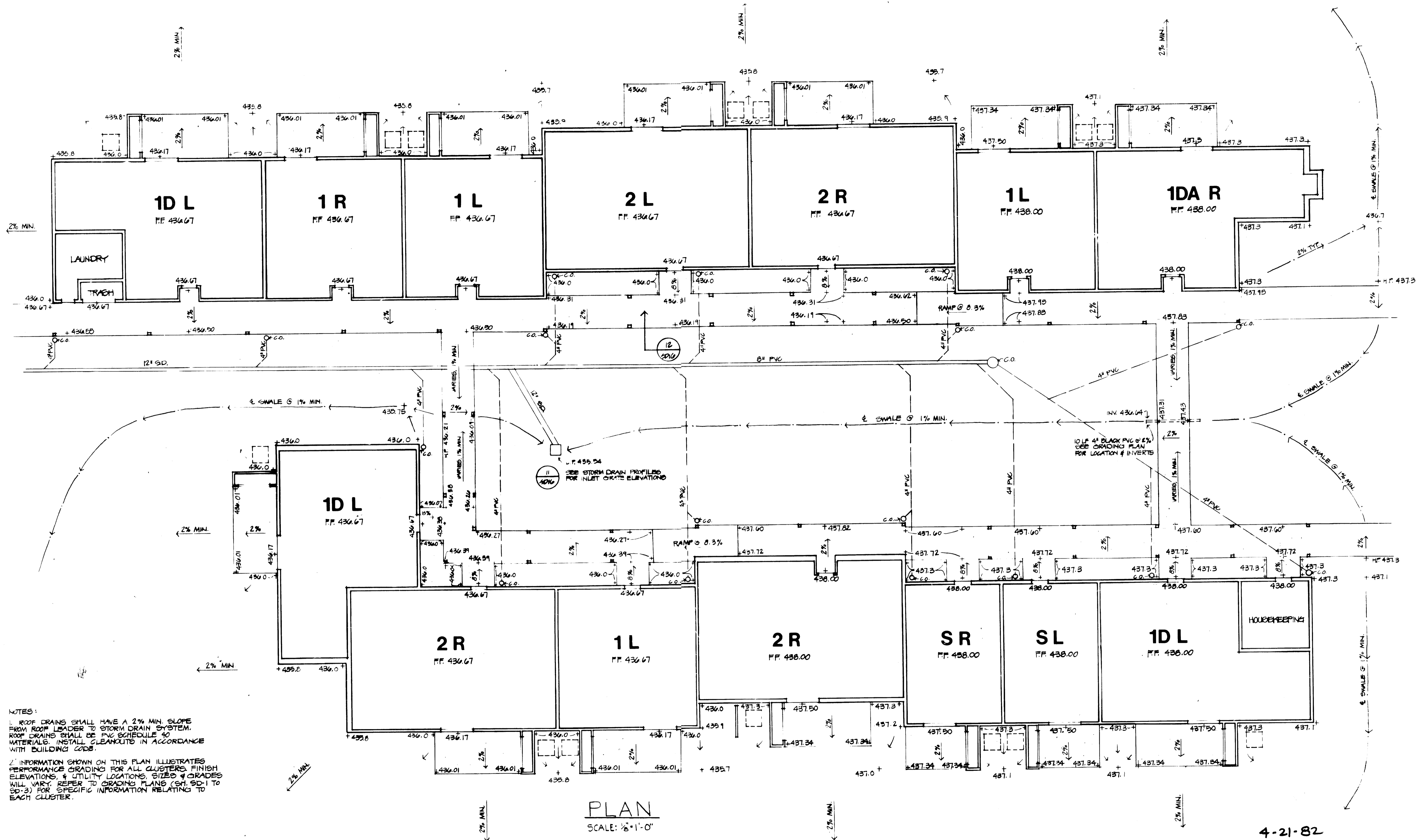
DRAINAGE AREA MAP (SHT. 23 OF 25)
BON SECOURS
HOWARD COUNTY HEALTH PARK
PARCEL B-1
2ND ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
SDP-82-75



PROFILES
 HOR. 1" = 100'
 VERT. 1" = 10'

4-21-82
 MS

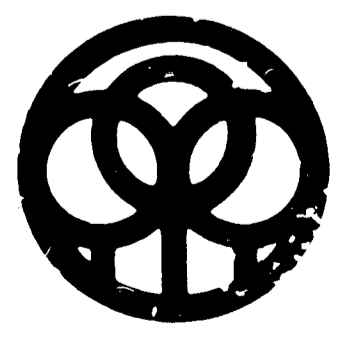
APPROVED FOR PUBLIC WATER, PUBLIC SEWERAGE AND ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS DIRECTOR _____ DATE _____ H.E. ALPHEA ENGINEERS DATE _____		APPROVED HOWARD COUNTY OFFICE OF PLANNING AND ZONING PLANNING DIRECTOR _____ DATE _____ CHIEF DIV. OF LAND DEVELOPMENT AND ZONING ADMINISTRATION DATE _____		APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS HOWARD COUNTY HEALTH DEPARTMENT COUNTY HEALTH OFFICER _____ DATE _____		Drawn by Checked 	George Evans Associates, Inc. Structural Engineers Purdam & Jaschke Civil Engineers	Cochran, Stephenson & Dankovost Incorporated Architects 925 North Charles St. Baltimore, Md. 21201 Henry Adams Inc. Consulting Engineers	DAFT · McCUNE · WALKER INC. LAND PLANNING CONSULTANTS LANDSCAPE ARCHITECTS ENGINEERS 530 E. JOPPA ROAD TOWSON MD. 21284 TELEPHONE (301) 296-3333	PRIVATE WATER MAIN PROFILES BON SECOURS HOWARD COUNTY HEALTH PARK PARCEL B-1 PARCELS 666 & 80, TAX MAP 17 2 nd ELECTION DISTRICT HOWARD COUNTY, MARYLAND SDP-82-75
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NOTES:
 1. ROOF DRAINS SHALL HAVE A 2% MIN. SLOPE FROM ROOF LEADER TO STORM DRAIN SYSTEM. ROOF DRAINS SHALL BE PVC SCHEDULE 40 MATERIALS. INSTALL CLEANOUTS IN ACCORDANCE WITH BUILDING CODES.
 2. INFORMATION SHOWN ON THIS PLAN ILLUSTRATES PERFORMANCE GRADING FOR ALL CLUSTERS. FINISH ELEVATIONS & UTILITY LOCATIONS, SIZES & GRADES WILL VARY. REFER TO GRADING PLANS (SH. SD-1 TO SD-3) FOR SPECIFIC INFORMATION RELATING TO EACH CLUSTER.

PLAN
 SCALE: 1/8" = 1'-0"

4-21-82


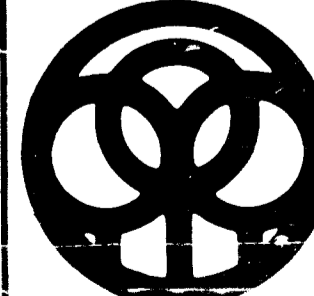
APPROVED FOR PUBLIC WATER, PUBLIC SEWERAGE AND ROADS. HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS. DIRECTOR _____ DATE _____ CHIEF, BUREAU OF ENGINEERING	APPROVED. HOWARD COUNTY OFFICE OF PLANNING AND ZONING. PLANNING DIRECTOR _____ DATE _____ CHIEF DIV. OF LAND DEVELOPMENT AND ZONING ADMINISTRATION	APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS. HOWARD COUNTY HEALTH DEPARTMENT. COUNTY HEALTH OFFICER _____ DATE 6-12-84	Drawn by _____ Checked _____ Seal	George Evans Associates, Inc. Structural Engineers Purdum & Jeschke Civil Engineers	Cochran, Stephenson & Donkersvoet Incorporated Architects 925 North Charles St. Baltimore, Md. 21201 Henry Adams Inc. Consulting Engineers		DAFT-McCUNE-WALKER, INC. LAND PLANNING CONSULTANTS ARCHITECTS ENGINEERS 530 E. JOPPA ROAD TOWSON, MD 21284 TELEPHONE (301) 296-3332 5601 MAIN FREDERICKS ROAD, SUITE 111 COLUMBIA, MD 21045 TELEPHONE (301) 982-0022	JOB NO. B-8115 SHEET SD-25 OF 28 TYPICAL CLUSTER GRADING PLAN BON SECOURS HOWARD COUNTY HEALTH PARK PARCEL B-1 PARCELS 666 & 80 TAX MAP 17 20th ELECTION DISTRICT HOWARD COUNTY, MARYLAND SDP-82-75
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PLAN
SCALE: 1" = 50'

THIS PLAN SHALL BE USED ONLY FOR PLANTING LOCATIONS.
REFER TO SH 80-28 FOR PLANT LIST & LEGEND
REFER TO SH 80-29 TO 80-34 FOR CLUSTER PLANTING PLANS

4-21-82

APPROVED FOR PUBLIC WATER, PUBLIC SEWERAGE AND ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS DIRECTOR _____ DATE _____ CHIEF BUREAU OF ENGINEERING	APPROVED HOWARD COUNTY OFFICE OF PLANNING AND ZONING PLANNING DIRECTOR _____ DATE _____ CHIEF DIV. OF LAND DEVELOPMENT AND ZONING ADMINISTRATION	APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT COUNTY HEALTH OFFICER _____ DATE _____	Drawn by _____ Checked _____ 	George Evans Associates, Inc. Structural Engineers Purdum & Jeschke Civil Engineers	Cochran, Stephenson & Donkersvoet Incorporated Architects 925 North Charles St. Baltimore, Md. 21201 Henry Adams Inc. Consulting Engineers		DAFT · McCUNE · WALKER INC. LAND PLANNING CONSULTANTS LANDSCAPE ARCHITECTS ENGINEERS 530 E. JOPPA ROAD TOWSON, MD. 21284 TELEPHONE (301) 296-3333	JOB NO. B-8116 SHEET 26 PLANTING PLAN BON SECOURS HOWARD COUNTY HEALTH PARK PARCEL B-1 PARCELS 666 & 80 TAX MAP 17 2 ND ELECTION DISTRICT HOWARD COUNTY, MARYLAND SDP-82-75
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4-21-82
MS

PLAN
SCALE: 1"=50'

THIS PLAN IS TO BE USED ONLY FOR PLANTING LOCATIONS.
REFER TO CH. SD-26 FOR PLANT LIST & LEGEND
REFER TO CH. SD-29 TO SD-34 FOR CLUSTER PLANTING PLANS

JOB NO. B-8116 Sheet SD-27

APPROVED FOR PUBLIC WATER, PUBLIC SEWERAGE AND ROADS
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
DIRECTOR DATE

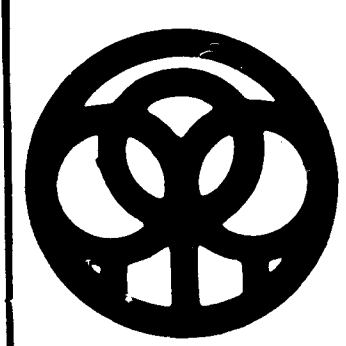
APPROVED HOWARD COUNTY OFFICE OF PLANNING AND ZONING
PLANNING DIRECTOR DATE

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS
HOWARD COUNTY HEALTH DEPARTMENT
COUNTY HEALTH OFFICER DATE 6-12-82

Drawn by Seal
Checked
LANDSCAPE ARCHITECT

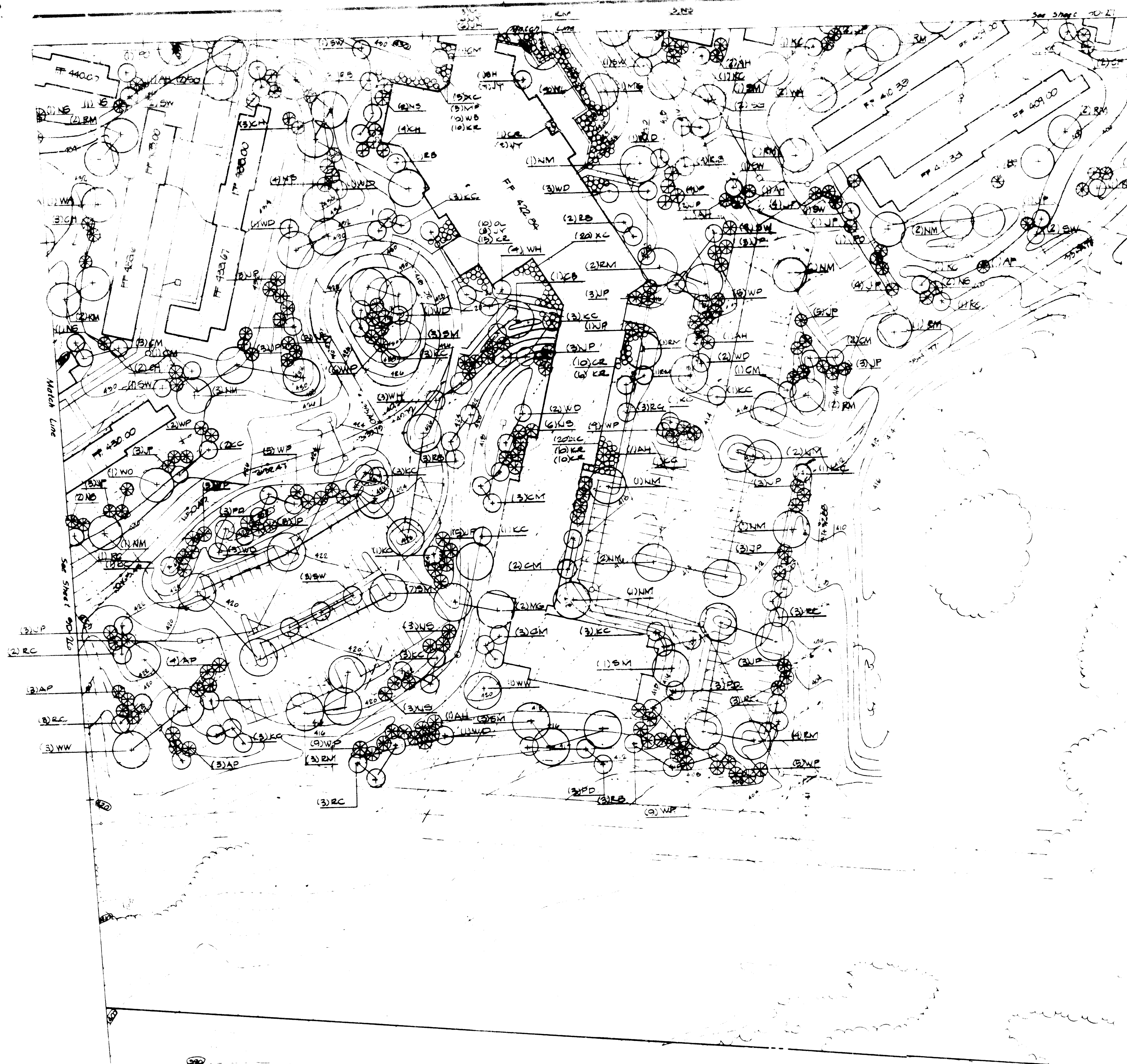
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DAFT McCune Walker Inc.
LAND PLANNING CONSULTANTS
LANDSCAPE ARCHITECTS
ENGINEERS
538 E. JOPPA ROAD
TOWSON, MD. 21284
TELEPHONE: (301) 296-3333

PLANTING PLAN
BON SECOURS
HOWARD COUNTY HEALTH PARK
PARCEL B-1
PARCELS 666 & 80, TAX MAP 17
2ND ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
SDP-82-75



KEY	QTY	BOTANICAL NAME	COMMON NAME	SIZE	COND.	REMARKS
NM	58	ACER PLATANOIDES	NORWAY MAPLE	2-2 1/2"	B+B	
RM	27	ACER RUBRUM	RED MAPLE	3 1/2-2 1/2"	B+D	
SM	13	ACER SACCHARUM	SUGAR MAPLE	2-2 1/2"	B+D	
CE	7	FAGUS SYLVATICA 'CUPREA'	COFFER BEECH	3 1/2-4"	B+D	
WA	13	FRAXINUS AMERICANA	WHITE ASH	2-2 1/2"	B+D	
EG	21	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	2-2 1/2"	B+D	
MG	10	MAGNOLIA GRANDIFLORA	SOUTHERN MAGNOLIA	3 1/2-2 1/2"	B+D	
PO	57	QUERCUS FALLOSTRIS	PIN OAK	2-2 1/2"	B+D	
NO	36	QUERCUS PHELLOBA	WILLOW OAK	2-2 1/2"	B+D	
WW	10	SALIX BANDA	NOBBE WEeping WILLOW	3 1/2-2"	B+D	
FLOWERING TREES						
KB	24	CERISIA CANADENSIS	REDBUD	6-8"	B+B	
ND	14	CORNUS FLORIDA	FLOWERING DOGWOOD	5-6"	B+B	
ND	7	CORNUS FLORIDA RUBRA	RED FLOWERING DOGWOOD	5-6"	B+B	
WH	31	CRATAEGUS PHAENOPYRUM	WASHINGTON HAWTHORN	4-5"	B+B	
SH	11	LACERATROEMIA INDICA	GRAPE VINYLET	6-8"	B+B	
RO	40	MALUS RADIANT	RADIANT CRAB APPLE	6-8"	B+B	
SW	27	OXYDENDRUM ARBOREUM	SOURWOOD	5-6"	B+B	
AC	44	PRUNUS BERRILLATA 'KWANZAN'	KWANZAN ORIENTAL CHERRY	5-6"	B+B	
EVERGREEN TREES						
AH	19	ILEX OPACA	AMERICAN HOLLY	5-6"	B+B	3 MALES
AB	122	PICEA ADIES	NORWAY SPRUCE	4-5"	B+B	
AP	6	PICEA PUNGENS 'SLAUGA'	COLORADO BLUE SPRUCE	5-6"	B+B	
BP	28	FINUS NIGRA	AUSTRIAN PINE	8-10"	B+B	
NP	209	FINUS STROBUS	WHITE PINE	7-8"	B+B	
TP	150	FINUS THUNDERBOLT	JAP. BLACK PINE	6-7"	B+B	
CH	38	TSUGA CAROLINIANA	CAROLINA HEMLOCK	6-7"	B+B	
SHRUBS						
KR	48	AZALEA OBTUSUM 'HERSHEY RED'	KURUME-RED AZALEA	15-18"	B+B	SHRUBS TO BE FIELD LOCATED
NB	20	BERBERIS VERRUCULOSA	WARTY BARBERRY	2-15"	CONT	
IC	68	COTONEASTER DAMMERI 'SKOCHOLMEN'	CHRISTMAS CARPET COTON.	18-24"	CONT	
RO	18	CORNUS SERICEA	RED-OSIER DOGWOOD	2-3"	B+B	
JH	10	ILEX CRENATA 'HELLER'	HELLER JAP. HOLLY	10-12"	CONT	
ML	58	KALMIA LATIFOLIA 'RUBRA'	RED FLOWER VITN. LAUREL	18-24"	B+B	
MP	10	PRUNUS MUCC	MUGHO PINE	5-18"	B+B	
CU	10	PRUNUS LAUROCERASUS OTTO LUYKEN'	OTTO LUYKEN LAUREL	15-18"	B+B	
CR	1	RHODOCENDRON CATAWBIENSE	CATAWBA RHODO. COBALT VIOL.	5-18"	B+B	
LY	38	TAXUS CUSPIDATA 'F&P COMPACTA'	JAPANESE YEW	5-18"	B+B	
BH	7	VIBURNUM PRUNIFOLIUM	BLACK HAW	3-4"	B+B	

NOTES:
 REFER TO SH 60-29 TO 60-34 FOR CLUSTER PLANTING PLANS.
 THIS PLAN SHALL BE USED FOR PLANTING SCHEDULE DETAILS & LOCATIONS ONLY.

PLAN
 SCALE: 1" = 50'



4-21-82
 MB

APPROVED FOR PUBLIC WATER, PUBLIC SEWERAGE AND ROADS
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 DIRECTOR _____ DATE _____
 CHIEF, BUREAU OF ENGINEERING

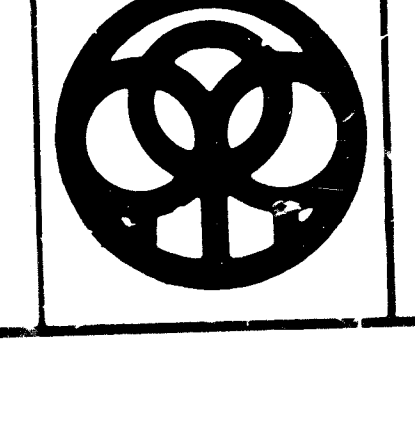
APPROVED HOWARD COUNTY OFFICE OF PLANNING AND ZONING
 PLANNING DIRECTOR _____ DATE _____
 CHIEF DIV. OF LAND DEVELOPMENT AND ZONING ADMINISTRATION

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS
 HOWARD COUNTY HEALTH DEPARTMENT
 _____ 6-14-84
 COUNTY HEALTH OFFICER

Drawn by _____ Seal
 Checked _____
 STATE OF MARYLAND
 PROFESSIONAL ENGINEER

George Evans Associates, Inc.
 Structural Engineers
 Purdum & Joczko
 Civil Engineers

Cochran, Stephenson & Donkervoel Incorporated
 Architects
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JOB NO. E-8115
 PLANTING PLAN
BON SECOURS
 HOWARD COUNTY HEALTH PARK
 PARCEL 5-1
 PARCELS 666 & 80, TAX MAP 17
 2nd ELEC. ION. DISTRICT
 HOWARD COUNTY, MARYLAND
 SDP-82-75