

SITE DATA

Total Area of Site = 908,300 ± 20.852 Ac. ±
 Existing Zoning = M-1
 Property Reference =
 Existing Use = Vacant
 Proposed Use = Office/Warehouse - Research & Development
 Total Floor Area = 202,933 S.F.
 Parking Required = 622 P.S.
 Parking Provided = 644 P.S.
 Floor Area Ratio = 4.60 Ac. ± / 20.85 Ac. ± = 22.06%
 % Open Space = 7.75 Ac. ± / 20.85 Ac. ± = 37.17%
 % Building Coverage w/Paving = 13.1 Ac. ± / 20.85 Ac. ± = 62.83%
 Area to be Disturbed = 21.33 Ac. ± / 22,133 S.F. ±
 Area to be Vegetatively Stabilized = 7.75 Ac. ± / 337,500 S.F. ±
 Area of Submission = 247,302 S.F. ± / 5.64 Ac. ±

Building	Office	Warehouse	Total
A	31,363 s.f.	16,887 s.f.	48,250 s.f.
B	21,125 s.f.	11,375 s.f.	32,500 s.f.
C	22,734 s.f.	12,241 s.f.	34,975 s.f.
D	21,481 s.f.	0	21,481 s.f.
E	12,916.5 s.f.	0	12,916.5 s.f.
F	12,916.5 s.f.	0	12,916.5 s.f.

PARKING TABULATION

Parking Required:

Building "A" - Office = 31,363 s.f. - 157 emp. @ 7 ps/10 emp. = 110 p.s.
 Warehouse = 16,887 s.f. @ 1 ps/500 s.f. = 34 p.s. - Employees = 9
 Total Parking Spaces Required for Building "A" = 144 p.s.

Building "B" - Office = 21,125 s.f. - 106 emp. @ 7 ps/10 emp. = 75 p.s.
 Warehouse = 11,375 s.f. @ 1 ps/500 s.f. = 23 p.s. - Employees = 6
 Total Parking Spaces Required for Building "B" = 98 p.s.

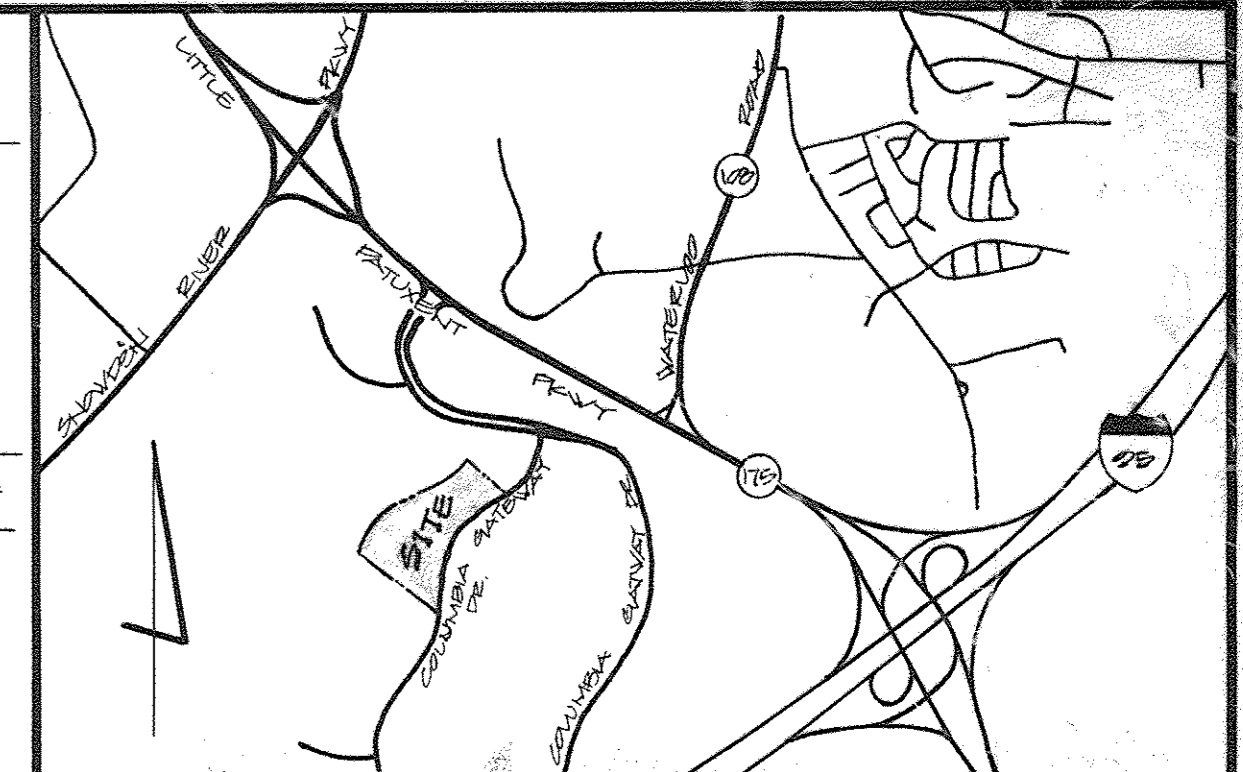
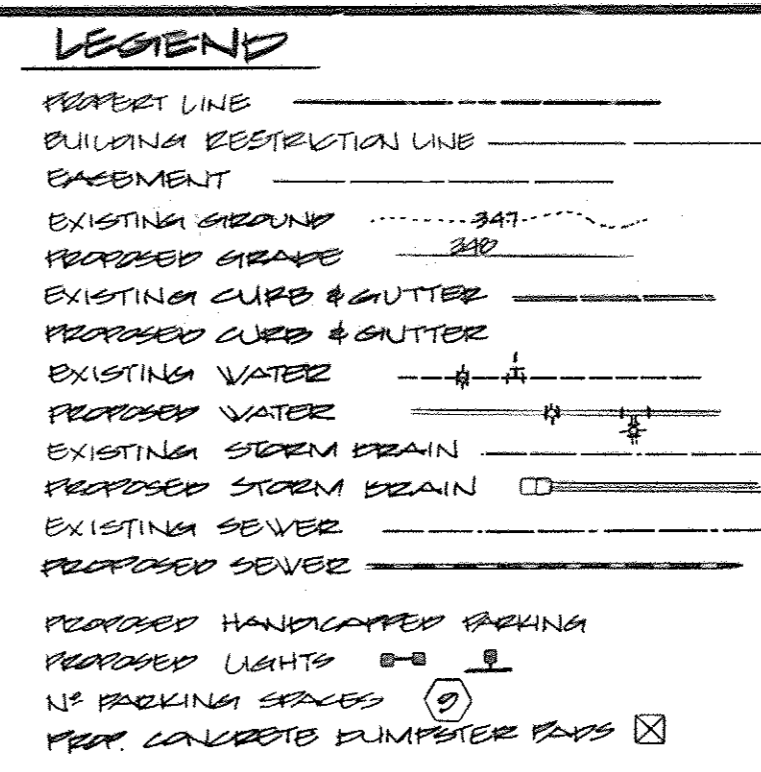
Building "C" - Office = 22,734 s.f. - 114 emp. @ 7 ps/10 emp. = 80 p.s.
 Warehouse = 12,241 s.f. @ 1 ps/500 s.f. = 25 p.s. - Employees = 7
 Total Parking Spaces Required for Building "C" = 105 p.s.

Building "D" - Office - 21,481 s.f. - 200 emp. @ 7 ps/10 emp. = 140 p.s. DAYCARE (SUITE A) 8,935 S.F. @ 3 PARKING SPACES/1,000 S.F. = 27 SPACES.
 Warehouse - 0 s.f. @ 1 ps/500 s.f. = 0 p.s. - Employees = 11
 Total Parking Spaces Required for Building "D" = 173 p.s.

Building "E" - Office - 12,916.5 s.f. - 65 emp. @ 7 ps/10 emp. = 46 p.s.
 Total Parking Spaces Required for Building "E" = 46 p.s.

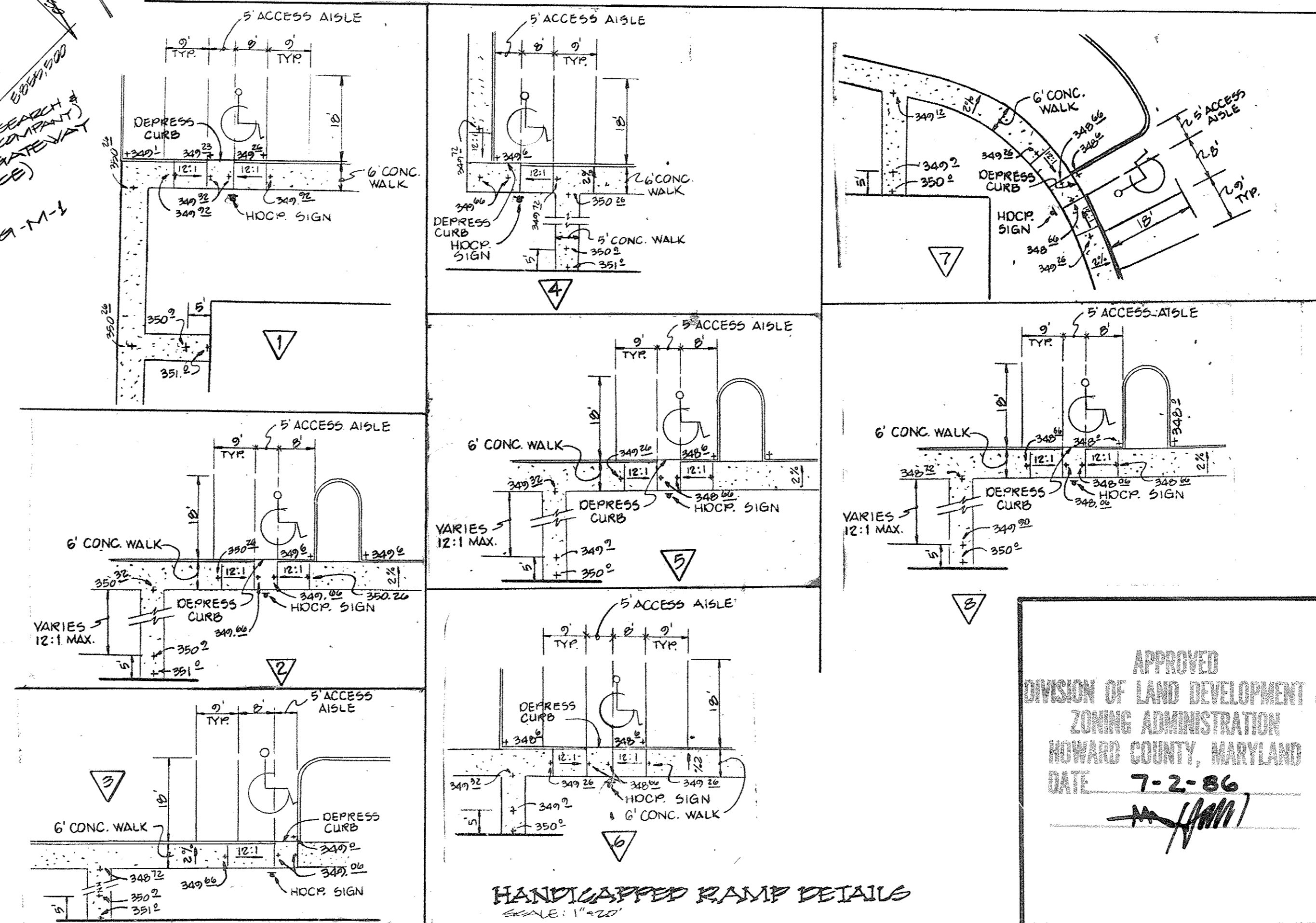
Building "F" - Office - 12,916.5 s.f. - 65 emp. @ 7 ps/10 emp. = 46 p.s.
 Total Parking Spaces Required for Building "F" = 46 p.s.

Total Parking Spaces Required = 622 P.S.
 Total Parking Spaces Provided = 644 (including 16 spaces for the handicapped)



Joseph H. Necker
 FDR REV. & DATED 7/22/86

- GENERAL NOTES**
- Maximum building height = 50'.
 - All areas not being paved or receiving building coverage shall be stabilized in accordance with the plans approved by Howard County Department of Planning and Zoning. Any damage to public rights-of-way and/or adjacent properties shall be repaired immediately at the contractor's expense.
 - The contractor shall maintain at least a 2" level bench behind all curb and gutter in fill areas.
 - The contractor shall verify all existing utilities by his own satisfaction before starting construction.
 - All work shall be done in accordance with Howard County Standard Specifications and Details for Construction, or as shown on these plans.
 - The contractor shall notify the Gas and Electric Company in writing prior to starting work shown on these plans by calling "Miss Utility". Call collect 1-599-0100.
 - For details of ramps and signs for the handicapped see the Maryland Building Code for the Handicapped and as shown hereon. See Sheet of 793-772.
 - The contractor shall maintain a minimum of 4' cover over all proposed water lines.
 - All tip-rap shall be placed on filter cloth.
 - The contractor or developer shall contact the Construction Inspection/Survey Division, 24 hours in advance of commencement of work at 992-7417 or 793-7721.
 - The contractor shall remove all existing paving, curb and gutter, etc. that may interfere with proposed construction.
 - All utilities installed shall receive full trench compaction.
 - All water main tees, bends, caps, etc. shall be buttressed in accordance with Howard County Design requirements.
 - All sidewalks will be 6' wide (see architectural plans for details).
 - The owner shall provide a separate and independent sewer connection for each tenant or occupant of any building, shown on this site development plan, who will discharge non-domestic waste to the public sewerage system if this waste is regulated under Section 18.122A of the Howard County Code. Each separate and independent sewer connection shall include a standard manhole and other waste treatment devices as required and approved by Howard County. Waste lines on the interior of the building shall be designed, constructed or modified such that non-domestic waste will be discharged to the separate and independent sewer connection. No owner or occupant of any building shown on this site development plan shall discharge regulated non-domestic waste to the public sewerage system prior to installation of the separate and independent sewer connection and related interior waste lines. The above requirements shall apply to all initial and future occupants or tenants.



THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT MEET THE TECHNICAL REQUIREMENTS FOR SMALL BUILD CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL.

APPROVED: *[Signature]* 8-6-86 DATE

APPROVED: *[Signature]* 8-6-86 DATE

APPROVED: *[Signature]* 8-15-86 DATE

APPROVED: *[Signature]* 8-18-86 DATE

APPROVED: *[Signature]* 8-18-86 DATE

APPROVED: *[Signature]* 8-18-86 DATE

APPROVED: *[Signature]* 8-18-86 DATE

APPROVED
 DIVISION OF LAND DEVELOPMENT &
 ZONING ADMINISTRATION
 HOWARD COUNTY, MARYLAND
 DATE 7-2-86

ADDRESS SHEET

BUILDING #	STREET ADDRESS
A	7151 COLUMBIA GATEWAY DRIVE
B	7153 COLUMBIA GATEWAY DRIVE
C	7161 COLUMBIA GATEWAY DRIVE
D	7175 COLUMBIA GATEWAY DRIVE
E	7171 COLUMBIA GATEWAY DRIVE
F	7165 COLUMBIA GATEWAY DRIVE

SUBDIVISION NAME: COLUMBIA GATEWAY
 PLAT/LA: 6773
 WATER TABLE: E06

SITE AND STORM WATER MANAGEMENT PLAN

PROPOSED OFFICE FOR RESEARCH & DEVELOPMENT
 COLUMBIA GATEWAY PARK
 100' ±

HOWARD COUNTY, MARYLAND ELECTRIC DISTRICT #0
 6773 AS SHOWN APRIL 3, 1980
 SHEET 1 OF 11

GEORGE WILLIAM STEPHENS, JR. AND ASSOCIATES, INC.

CIVIL ENGINEERS & LAND SURVEYORS

303 ALLEGHENY AVENUE
 TOWSON, MARYLAND 21204
 (301) 825-8120

OWNER'S CERTIFICATE:

I CERTIFY THAT THIS PLAN FOR ROAD CONSTRUCTION, EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND Viable PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS. THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS 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 A RED-LINED "AS-BUILT" OF THE ROAD WITHIN 30 DAYS OF COMPLETION.

[Signature] DATE 4/16/86

OWNER/DEVELOPER

THE HOWARD RESEARCH & DEVELOPMENT CORP.
 10275 LITTLE PATUXENT PARKWAY
 COLUMBIA, MARYLAND 21044
 (301) 992-6099

CONTRACT PURCHASER

MGR. XXXIII PARTNERSHIP
 90 MARLEKIN CORPORATION
 10270 OLD COLUMBIA RD
 COLUMBIA, MARYLAND 21046 (301) 995-1670

DESIGNER'S CERTIFICATE:

I CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE MADE ACCORDING TO THESE PLANS AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION OF THIS PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPT. OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF EROSION AND SEDIMENT BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERMITS ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS AS ARE PERMITTED NECESSARY. DEVIATION FROM THIS PLAN WILL NOT BE MADE UNLESS AUTHORIZED BY THE HOWARD SOIL CONSERVATION DISTRICT. I WILL PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH A RED-LINED "AS-BUILT" OF THE ROAD WITHIN 30 DAYS OF COMPLETION.

DESIGNER: JOSEPH H. NECKER, JR. DATE:

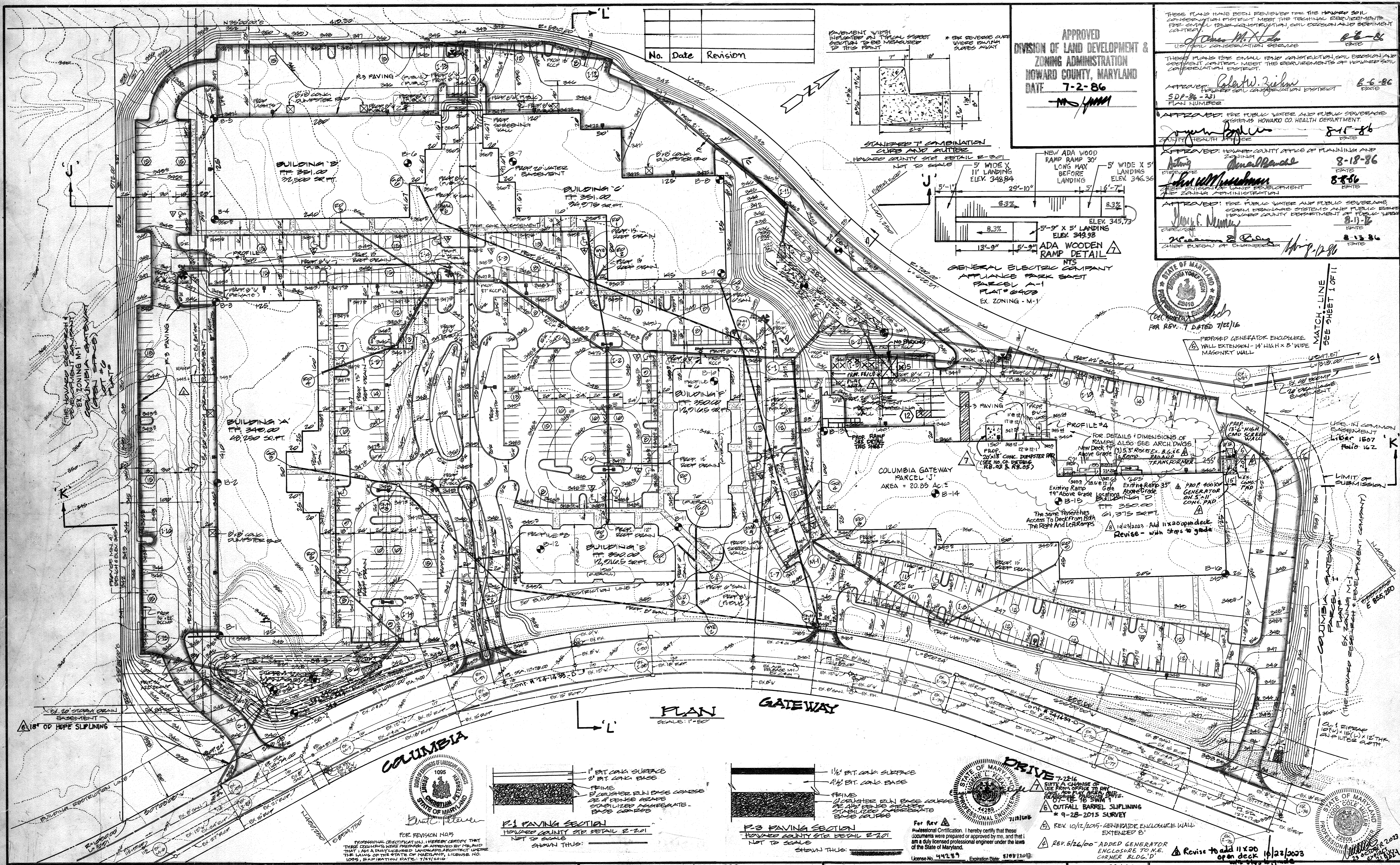
DESIGNED BY: JH/N
 DRAWN BY: JH/N
 CHECKED BY: JH/N

PROJECT INFORMATION

PROJECT: PROPOSED OFFICE FOR RESEARCH & DEVELOPMENT
 COLUMBIA GATEWAY PARK
 100' ±

HOWARD COUNTY, MARYLAND ELECTRIC DISTRICT #0
 6773 AS SHOWN APRIL 3, 1980
 SHEET 1 OF 11

SOP # 00-231



APPROVED
DIVISION OF LAND DEVELOPMENT &
ZONING ADMINISTRATION
HOWARD COUNTY, MARYLAND
DATE: 7-2-86
MS/JMM

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT MEET THE TECHNICAL REQUIREMENTS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL AND CONSTRUCTION.

APPROVED: *John M. ...* 6-6-86 DATE

THESE PLANS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL MEET THE REQUIREMENTS OF HOWARD SOIL CONSERVATION DISTRICT.

APPROVED: *Robert W. Ziebar* 6-6-86 DATE
SDP-86-231
PLAN NUMBER

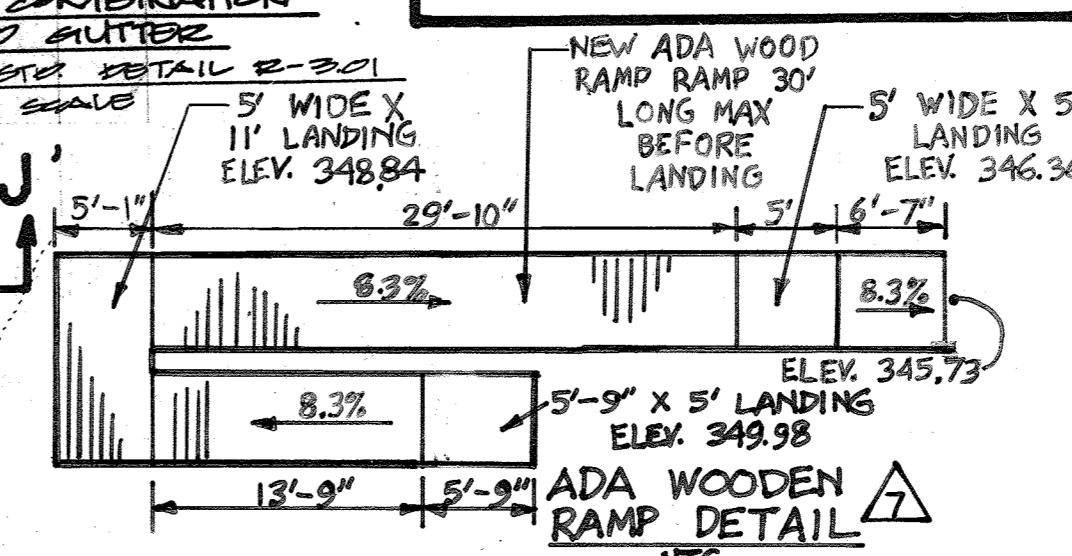
APPROVED: *John ...* 8-15-86 DATE
PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS HOWARD CO HEALTH DEPARTMENT

APPROVED: *John ...* 8-18-86 DATE
HOWARD COUNTY OFFICE OF PLANNING AND ZONING

APPROVED: *John ...* 8-8-86 DATE
CHIEF DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION

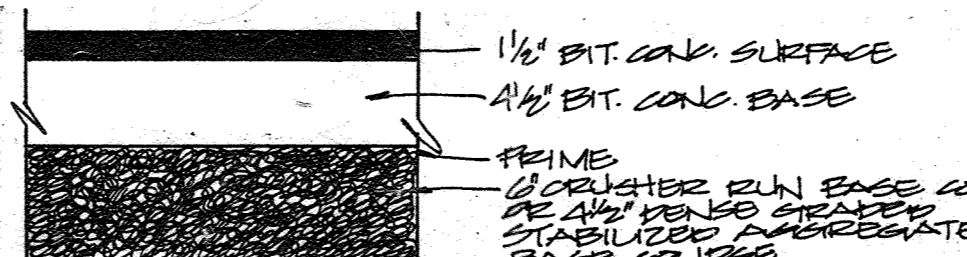
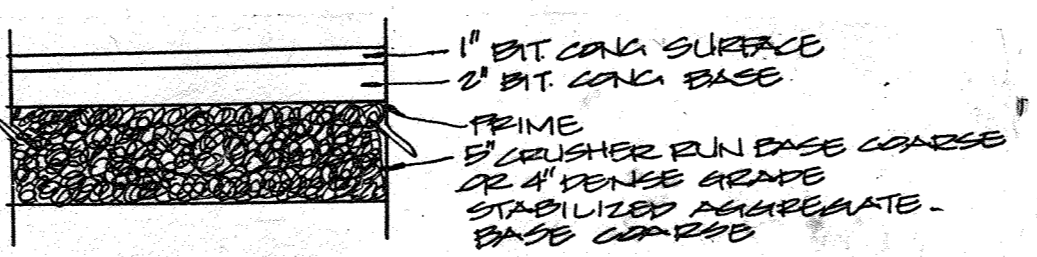
APPROVED: *John ...* 8-11-86 DATE
PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS HOWARD CO HEALTH DEPARTMENT

APPROVED: *John ...* 8-13-86 DATE
CHIEF BUREAU OF ENGINEERING



STATE OF MARYLAND
PROF. ENGINEER
FOR REV. T DATED 7/22/16

PLAN
SCALE: 1"=50'



For Rev. *Joseph H. Necker*
Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.
License No. 44289 Expiration Date: 10/31/2010

GEORGE WILLIAM STEPHENS, JR. AND ASSOCIATES, INC.
CIVIL ENGINEERS & LAND SURVEYORS
303 ALLEGHENY AVENUE
TOWSON, MARYLAND 21204
(301)825-8120

ENGINEER'S CERTIFICATE:
I CERTIFY THAT THIS PLAN FOR POND CONSTRUCTION, EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND INFERABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS. THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE SITE CONDITIONS. THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT. I HAVE ADVISED THE DEVELOPER THAT HE MUST PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH A RED-LINED "AS-BUILT" OF THE POND WITHIN 30 DAYS OF COMPLETION.
Joseph H. Necker 8/10/86
DATE

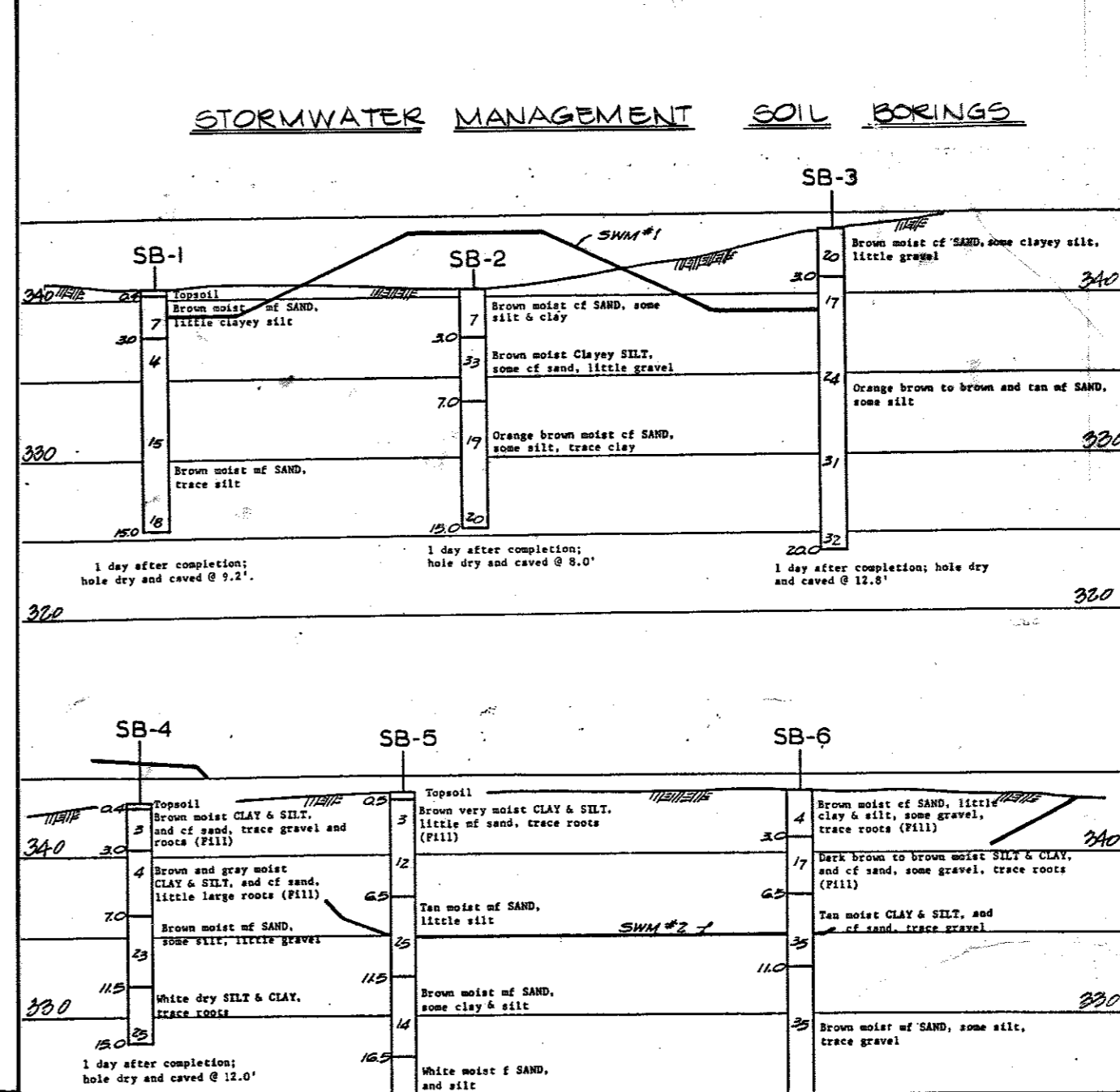
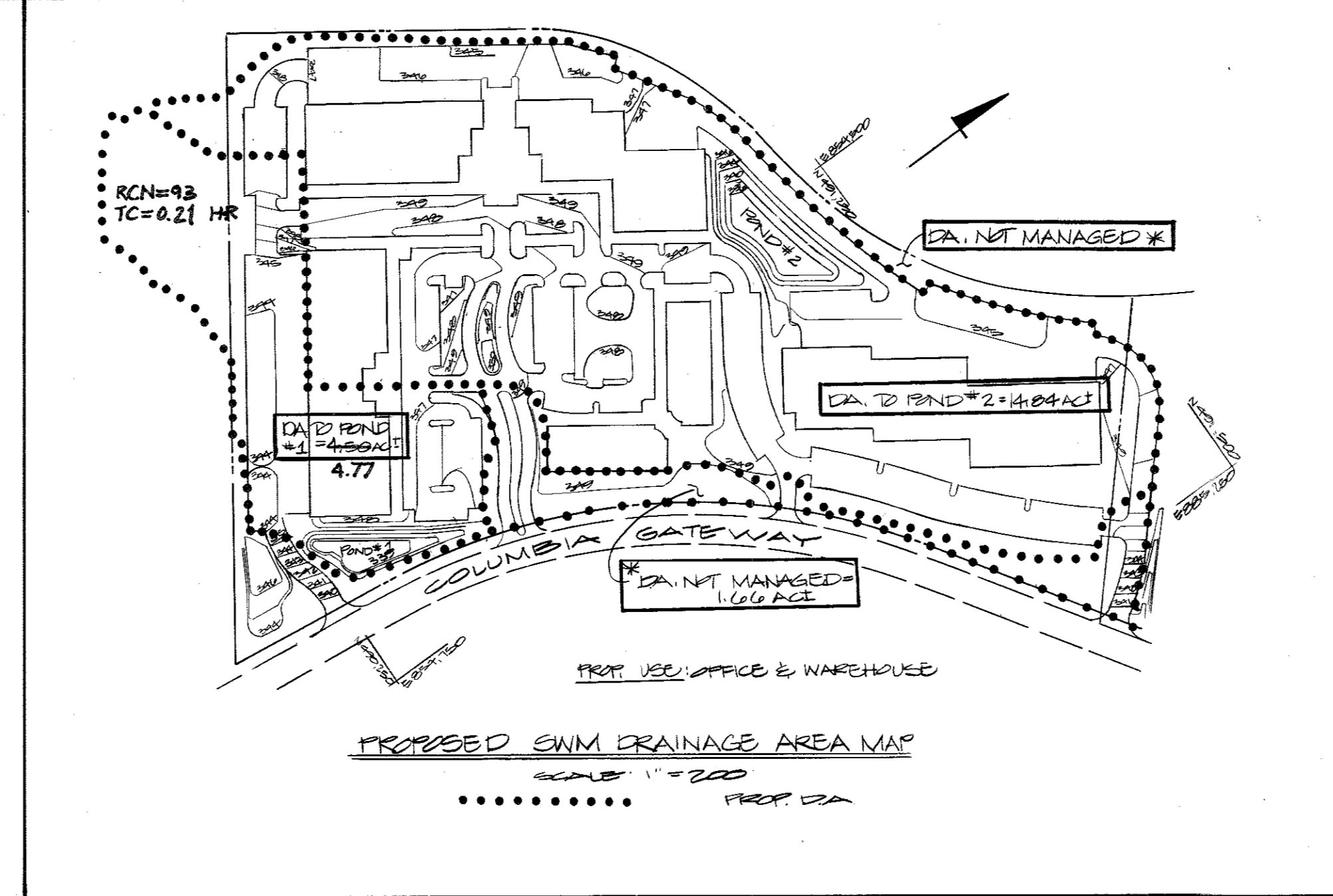
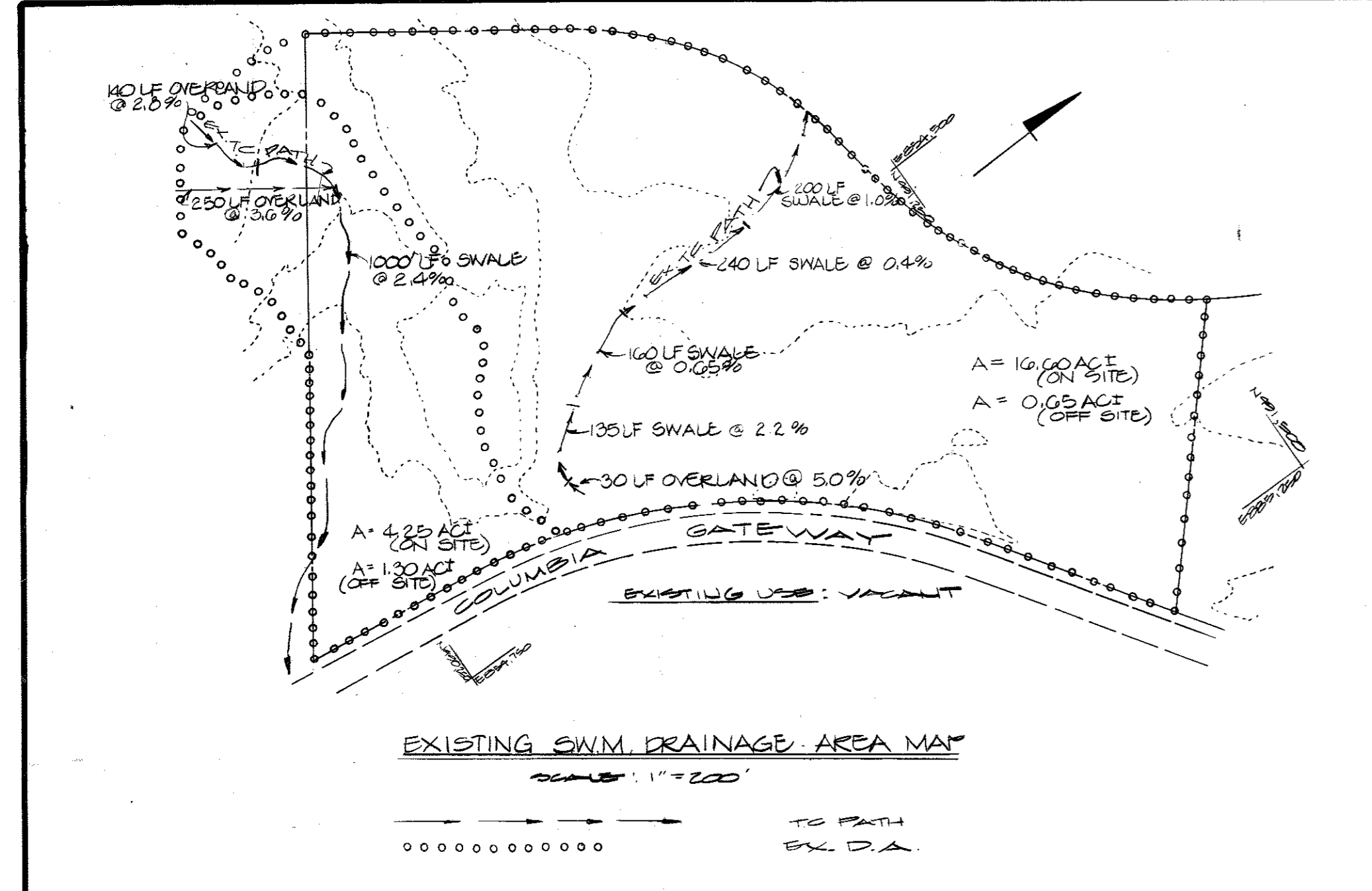
OWNER / DEVELOPER
THE HOWARD RESEARCH & DEVELOPMENT CORP.
10276 LITTLE PATUXENT PARKWAY
COLUMBIA, MARYLAND 21044
(301) 202-0000

CONTRACT PURCHASER
M.O.R. XXXVIII PARTNERSHIP
% MARJERIN CORPORATION
10270 OLD COLUMBIA RD
COLUMBIA, MARYLAND 21046 (301) 202-1070

DEVELOPER'S CERTIFICATE:
I CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE MADE ACCORDING TO THESE PLANS AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPT. OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF EROSION AND SEDIMENTATION BEGAINING THE PROJECT. I ALSO AUTHORIZE PERSONS OR SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS AS ARE DEEMED NECESSARY. PENALTIES FROM THIS PLAN WILL NOT BE WAIVED UNLESS AUTHORIZED BY THE HOWARD SOIL CONSERVATION DISTRICT. I WILL PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH A RED-LINED "AS-BUILT" OF THE POND WITHIN 30 DAYS OF COMPLETION.
ASST. V.P. DATE:

DESIGNED: DB/K/B
DRAWN: DB/K/B
CHECKED: T.C.
REVISIONS: 07/23/08
RAMP ADDED TO BACK OF BUILDING A
ADDED RAMPS BEHIND BLDG. D, T.C.G.S.

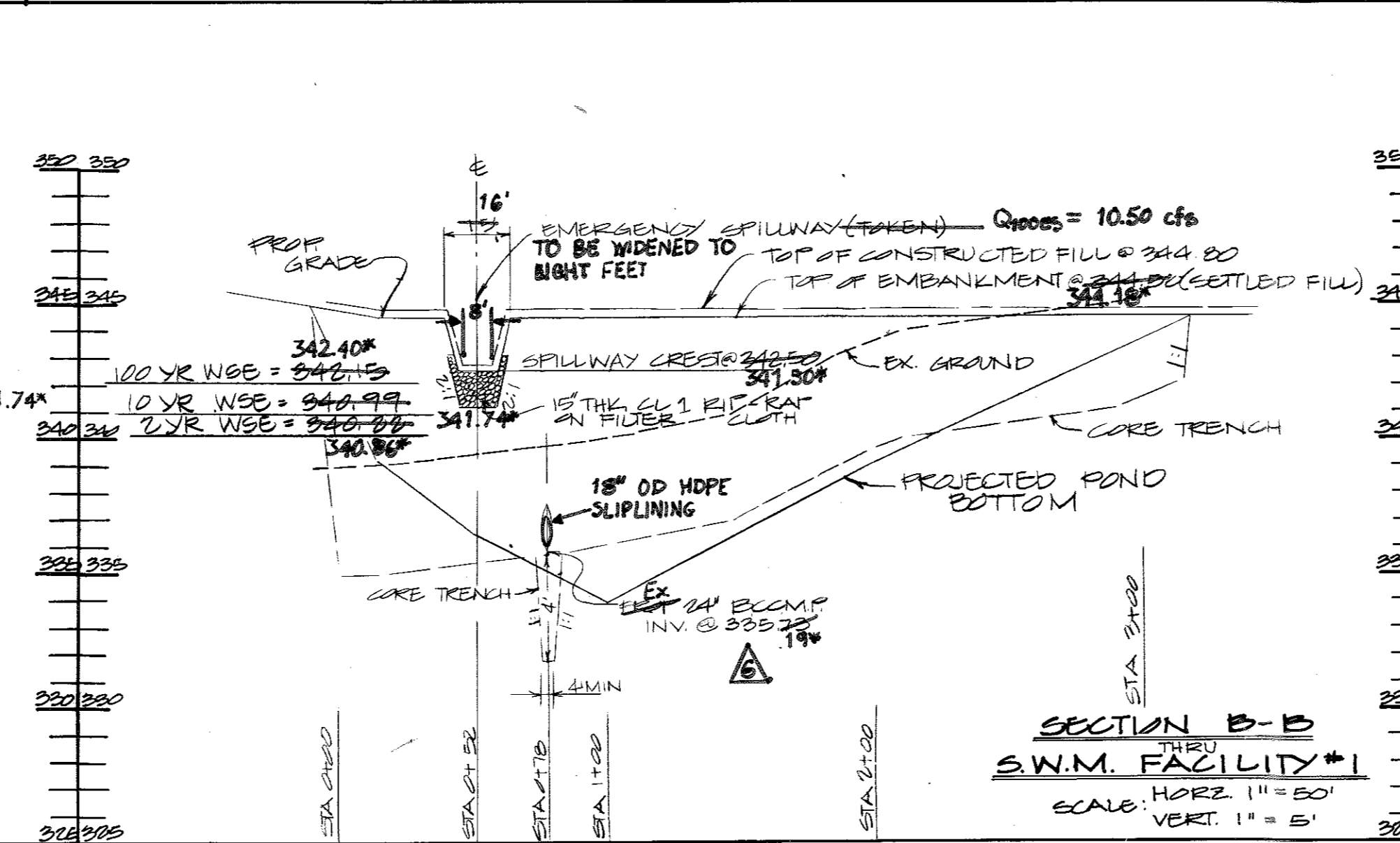
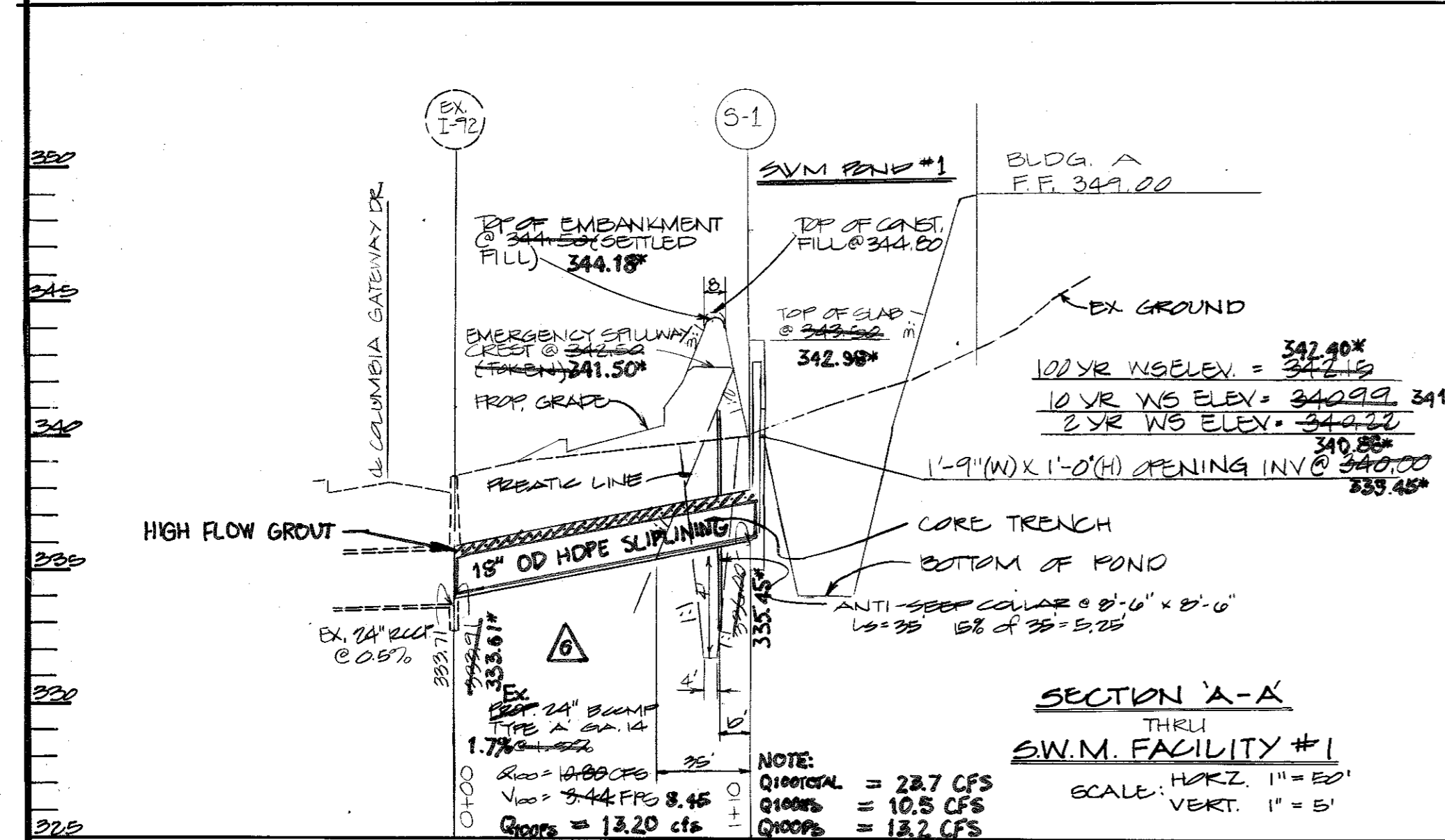
SITE AND STORM WATER MANAGEMENT PLAN
PROPOSED OFFICE FOR RESEARCH & DEVELOPMENT PARK
COLUMBIA GATEWAY EAST
SHEET 2 OF 11
HOWARD COUNTY, MARYLAND
ELECTRIC DISTRICT # 6
SCALE: AS SHOWN
PLAN SHEET



CONSTRUCTION SPECIFICATIONS

- SITE PREPARATION**
The fill area and borrow area shall be cleared and grubbed to remove all trees, vegetation, rocks and other objectionable material. The topsoil from the immediate area and borrow area shall be removed and stockpiled. The topsoil shall be spread on the completed fill area.
- FILL MATERIALS**
Fill materials shall be obtained from on-site under the supervision of a soils engineer. It shall be free from roots, stumps, wood, rubbish, oversized stones, frozen or other objectionable material. Fill areas shall be constructed to the elevation shown on the plan to allow for a 1% slope to the exterior of the structure. Areas on which fill will be placed shall be scarified prior to placement of fill. Fill materials shall be placed in layers of 12" thick maximum. Before construction, and shall be compacted over the entire length of fill. The most porous material shall be placed in areas not adjacent to ponded water. The movement of the hauling and spreading equipment over the fill shall be controlled so that the entire surface of each lift shall be compacted to the specified density. Fill materials shall contain sufficient moisture so that the required degree of compaction can be obtained with the equipment used.
- CONCRETE**
Concrete shall be made of 3C or 2C material compared to 95% of A.A.S.T.M. 7-99 density.
- STRUCTURAL REINFORCEMENT**
Reinforcement shall be the type and quality specified for the adjoining fill material. The fill shall be placed in horizontal layers of 12" thick maximum and compacted by hand tamping or manually directed power tampers or plate vibrators. At no time during backfilling operations shall driven equipment be allowed to operate any closer than four feet measured horizontally to any part of a structure. Under no circumstances shall the contractor drive equipment over any part of a concrete structure or pipe unless there is a compacted fill of 12" or greater over the structure or pipe. Materials shall fill completely all spaces under and adjacent to newly installed pipe.
- CONCRETE**
Concrete shall meet the minimum requirements set forth in the Maryland State Highway Administration "Specifications for Construction and Materials", January 1997, Section 218.06 - "Portland Cement Concrete Mixtures", Mix No. 1 Reinforcing steel shall be A.S.T.M. A 615, Grade 60.
- STABILIZATION**
The storm water management facility will be stabilized with "Permanent Slope" seed mix as follows:
After spreading 4" topsoil seed with a mixture of 30% inoculated crown vetch and 70% Kentucky 31 Tall Fescue applied at a rate of 40 lbs./ac., 10-20-20 fertilizer shall be applied at a rate of 25 lbs./1000 square feet, lime at a rate of 32 lbs./1000 square feet, which area with unweeded small grain control at a rate of 1.5 lbs./ac., and liquid curing sealant (R.C.-70, R.C.-750 or R.C.-800) at a rate of 0.2 gal. S.F.
- CONTAMINATED METAL PIPES**
1. Materials - (Steel Pipe) - This pipe and its appurtenances shall be galvanized and fully bituminous coated and shall conform to the requirements of A.A.S.T.M. Specification for pipe with water-tight coating. Any bituminous coating damaged or otherwise removed shall be replaced with cold applied bituminous coating compound.
2. Connections - All connections with pipes must be completely water-tight. The drain pipe or barrel connection to the riser shall be welded all around when the pipe and riser are metal. Water-tight coupling bands of flanges shall be used at all joints. Anti-seep collars shall be connected to the pipe in such a manner as to be completely water-tight. Flange bands are considered to be water-tight.
3. Bedding - The pipe shall be firmly and uniformly bedded throughout its entire length. When rock or soft, spongy or other unstable soil is encountered, all such material shall be removed and replaced with suitable earth compacted to provide adequate support.
4. Laying pipe - The pipe shall be placed with inside circumferential laps pointing downstream and with the circumferential laps at the side.
5. Backfilling shall conform to structural backfill as shown above.
6. Other details (anti-seep collars, valves, etc.) shall be as shown on the drawings.
- FILTER CLOTH**
SEMI 1401 or equivalent shall be used.
- VEGETATION CONTROL**
Contractor to be in accordance with "1993 Maryland Standards and Specifications for Soil Erosion and Sediment Control". In release structure install dewatering device by connecting 2.5" I.P. of 12" perforated underdrain to the low flow pipe. The 12" underdrain shall be wrapped in filter cloth and covered with minimum 12" thick 42 stone.

NOTES: (SPECIFIED DENSITY) SURFACE MATERIAL SHALL BE USED FOR THE EMBANKMENT AND BOLDED TO A MINIMUM DEGREE OF COMPACTION OF 95% OF THE DRY UNIT WEIGHT AS DETERMINED BY A.A.S.T.M. 7-99. CONSTRUCTION OF THE PIPE SHALL BE PERFORMED UNDER STRICT SUPERVISION OF A SOILS ENGINEER.

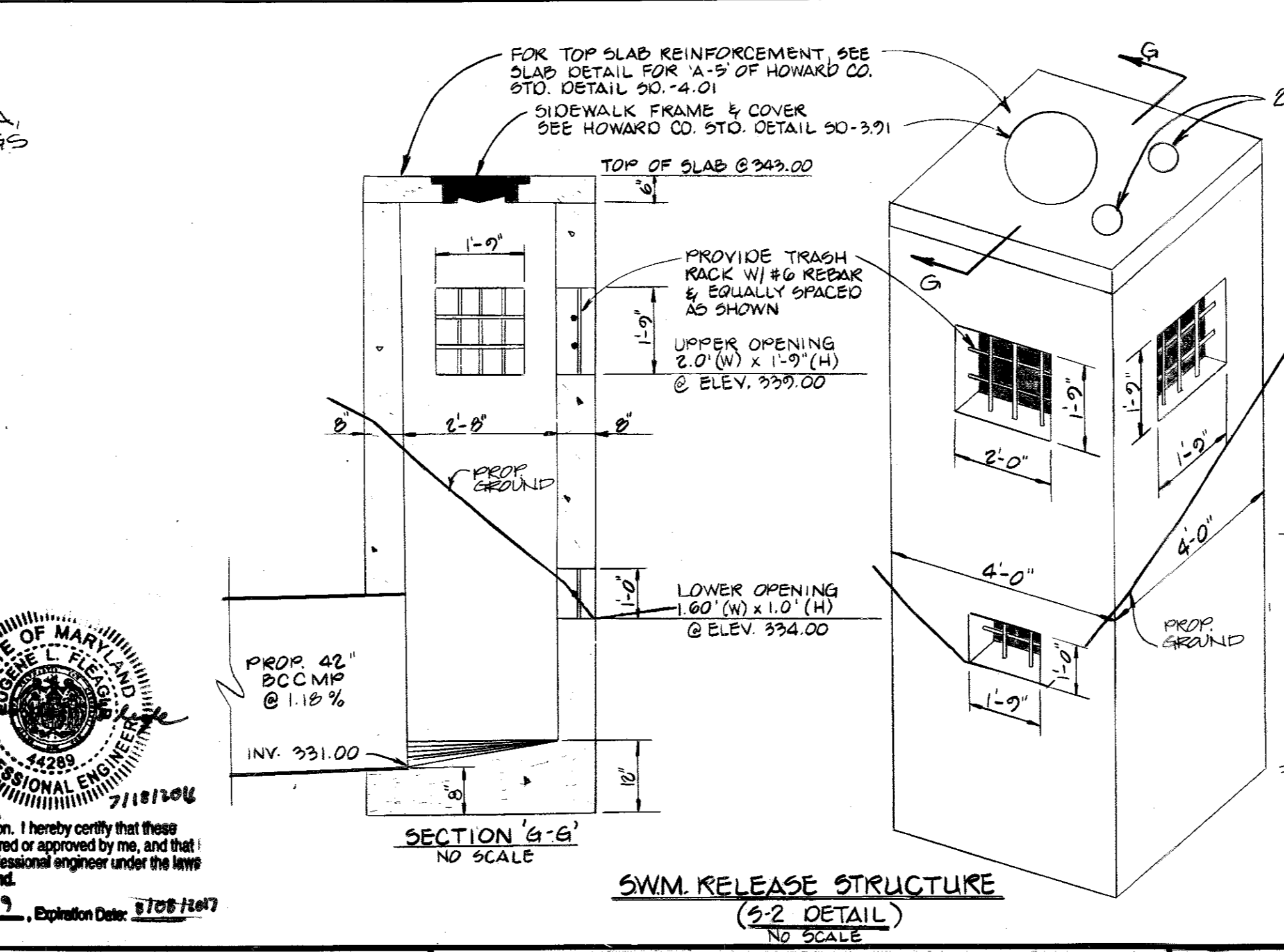
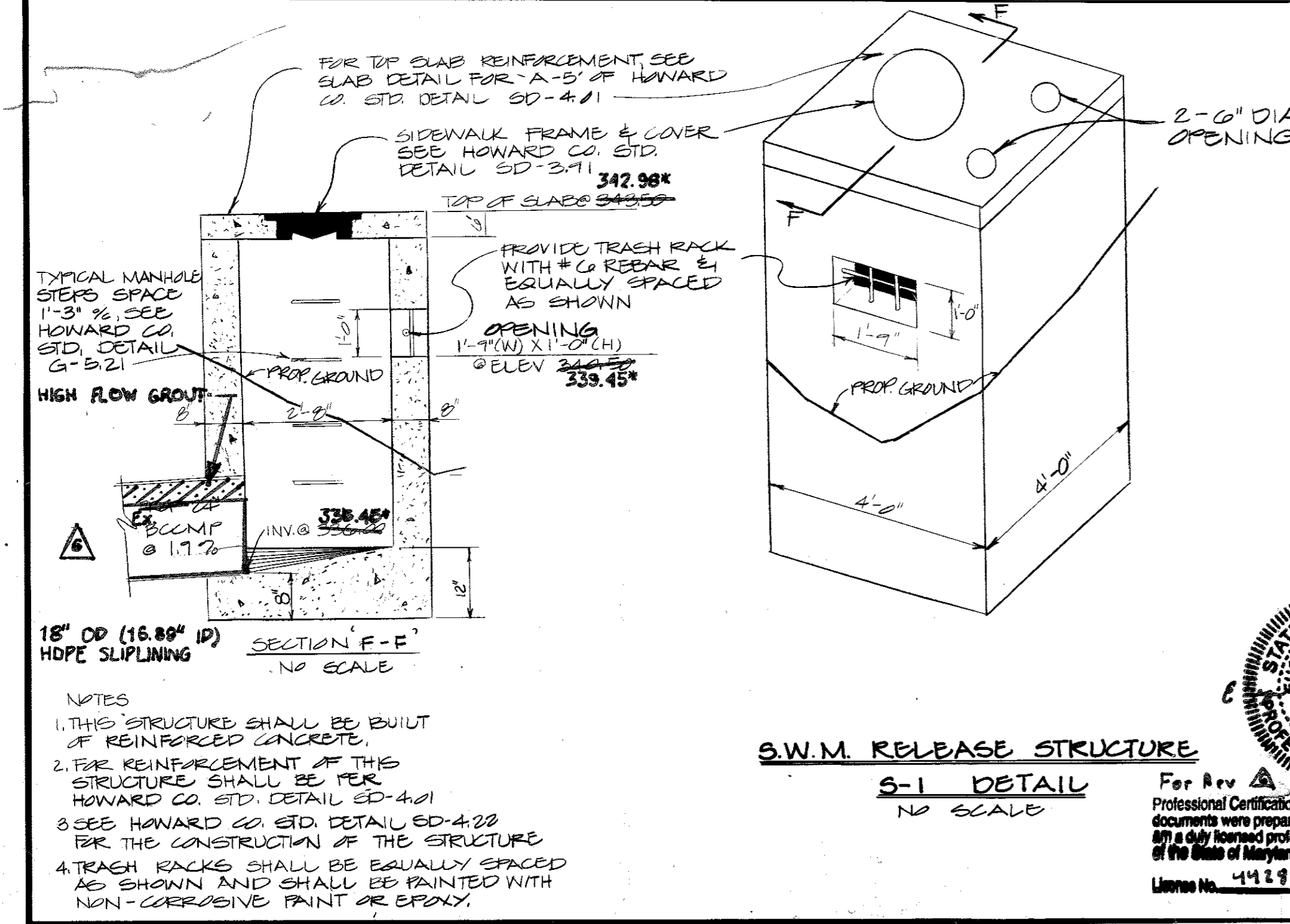
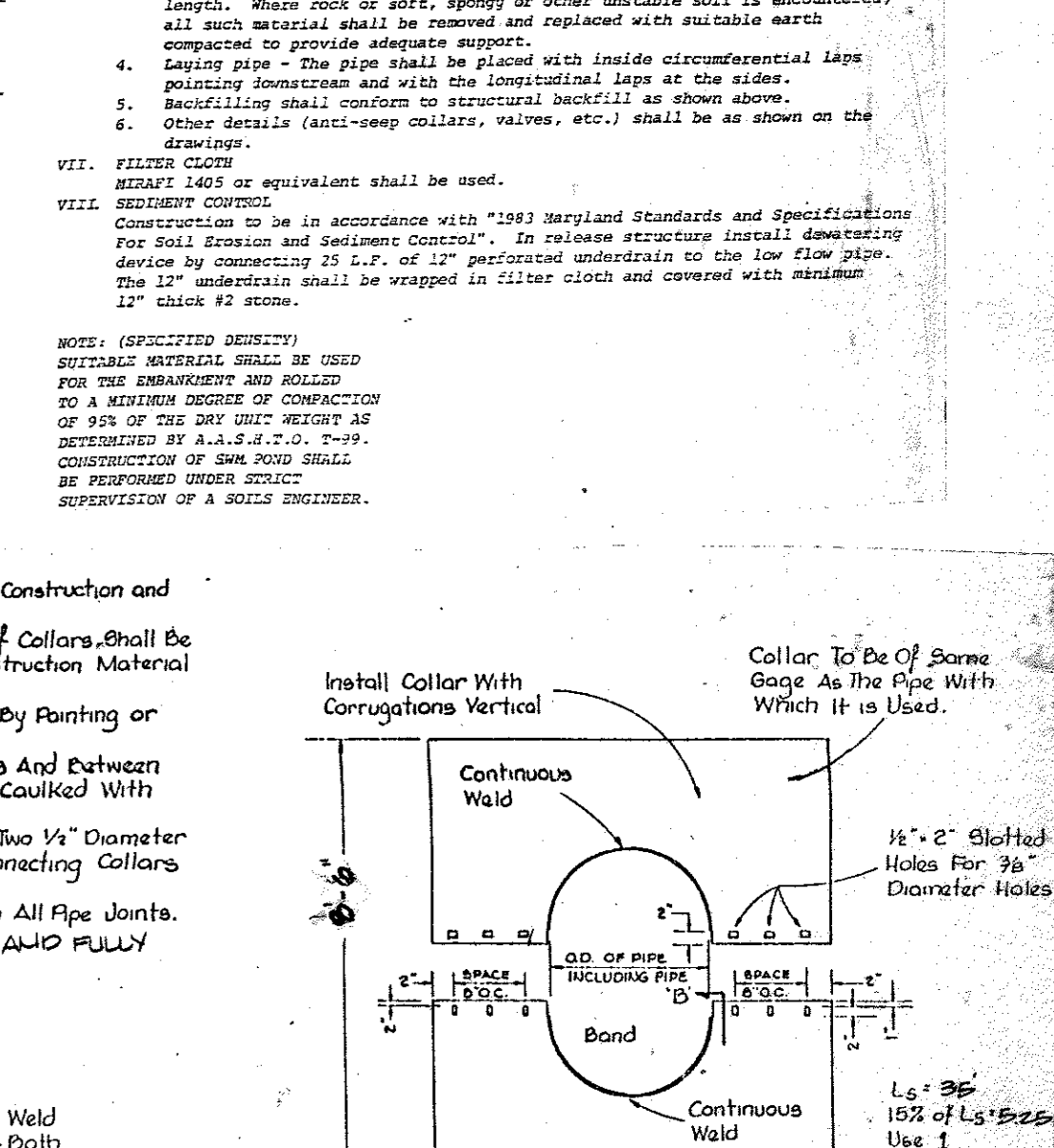


STORMWATER MANAGEMENT MAINTENANCE SCHEDULE

MAINTENANCE ITEM	1	2	3	4	5	6
MAINTENANCE FREQUENCY	8	7	8	8	7	8
REPAIR DURATION	1	10	1	1	10	1

- CLEAN OUT SILT
- CLEAN OUT TRASH
- CHECK WEIR CLOSURES
- CHECK SHOTS STABILIZATION
- CUT GRASS
- CHECK STRUCTURAL INTEGRITY
- EVERY TWO WEEKS
- EVERY THREE MONTHS
- CHEK WEIR MAXIMUM
- TWO DAYS

NOTES: ALL MAINTENANCE, INSPECTION AND REPAIR SHALL BE THE RESPONSIBILITY OF THE COLLAR.
INSPECT ALL ABOVE ITEMS AFTER EACH MAJOR RAINFALL AND REPAIR IF NECESSARY.



NOTES:

- THIS STRUCTURE SHALL BE BUILT OF REINFORCED CONCRETE.
- REINFORCEMENT OF THIS STRUCTURE SHALL BE PER HOWARD CO. STD. DETAIL 50-4-01.
- SEE HOWARD CO. STD. DETAIL 50-4-22 FOR THE CONSTRUCTION OF THE STRUCTURE.
- TRASH RACKS SHALL BE EQUALLY SPACED AND SHALL BE PAINTED WITH NON-CORROSIIVE PAINT OR EPOXY.
- PROVIDE TYPICAL MANHOLE STEPS ON NORTHWEST INNER STRUCTURE WALL SPACED 1'-3", SEE HOWARD CO. STD. DETAIL G-5.21.

NOTES:

- NO REBAR SHALL BE PERMITTED ON REBAR SURFACES TO BE WELDED.
- BITUMINOUS COATING SHALL BE MAINTAINED UPON COMPLETION OF WELDING.

WELDING DETAIL
NO SCALE

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

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

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

GEORGE WILLIAM STEPHENS, JR. AND ASSOCIATES, INC.
CIVIL ENGINEERS & LAND SURVEYORS
303 ALLEGHENY AVENUE
TOWSON, MARYLAND 21284
(301) 825-8120

ENGINEER'S CERTIFICATE
I CERTIFY THAT THIS PLAN FOR SOIL 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 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 A RED-LINED "AS-BUILT" OF THE POND WITHIN 30 DAYS OF COMPLETION.

OWNER/DEVELOPER
THE HOWARD RESEARCH & DEVELOPMENT CORP.
10270 LITTLE PATUXENT PARKWAY
COLUMBIA, MARYLAND 21044
(301) 992-0039

OWNER/DEVELOPER
MOR. XXXIII PARTNERSHIP
9% MANEIKIN CORPORATION
10270 OLD COLUMBIA RD
COLUMBIA, MARYLAND 21040 (301) 992-1070

DEVELOPER'S CERTIFICATE
I CERTIFY THAT ALL PRELIMINARY AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THESE PLANS AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPT. OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE FIELD/AS-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT. IF THESE AUTHORIZED AGENTS AS ASS. PRESIDENT INSPECTION DEVIATES FROM THIS PLAN WILL NOT BE MADE UNLESS AUTHORIZED BY THE HOWARD SOIL CONSERVATION DISTRICT. I WILL PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH A RED-LINED "AS-BUILT" OF THE POND WITHIN 30 DAYS OF COMPLETION.

APPROVED
DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION
HOWARD COUNTY, MARYLAND
DATE: 7-2-86

REVISIONS

07-18-16	SWM 1	OUTFALL BARRI	SPLINING
9-28-2015	SURVEY		

DESIGNED BY: KB/BB
DRAWN BY: KB/EL
CHECKED BY: JZ

S.W.M. PROFILES & DETAILS

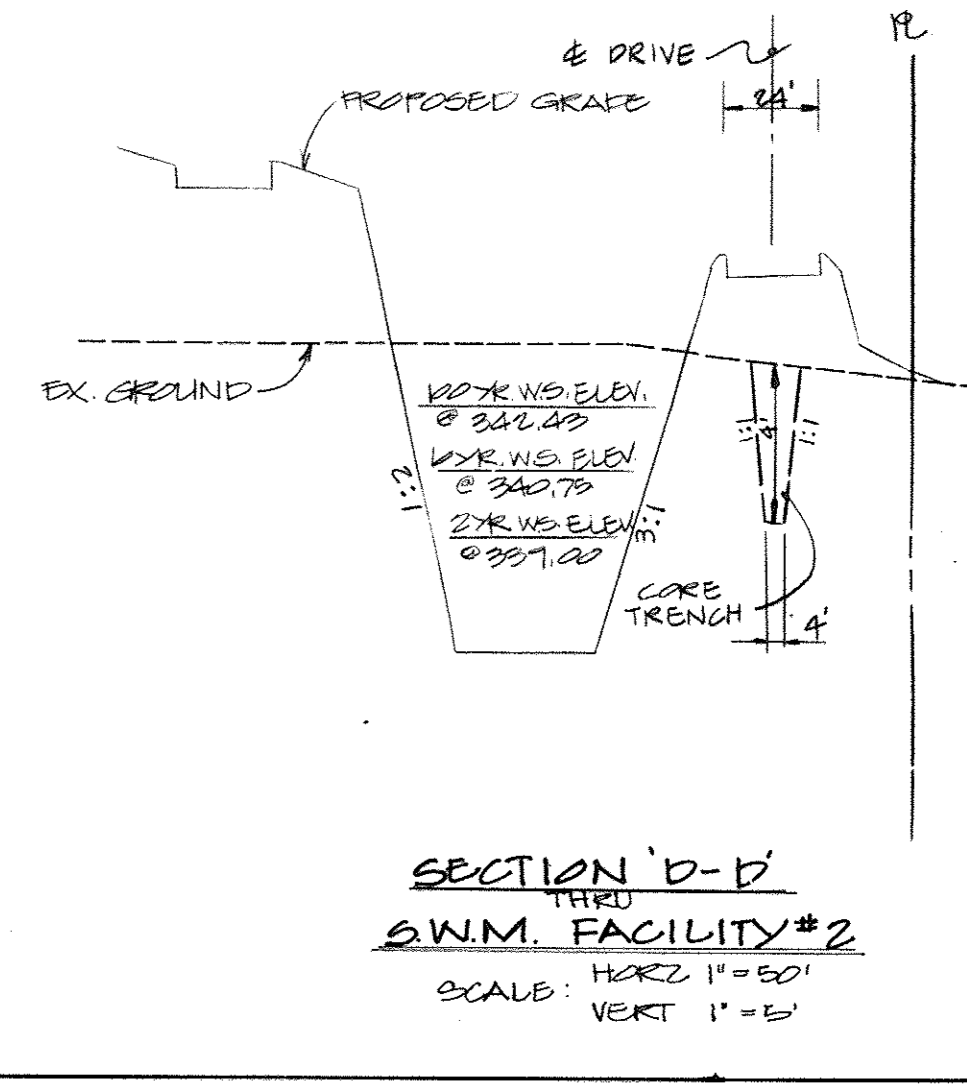
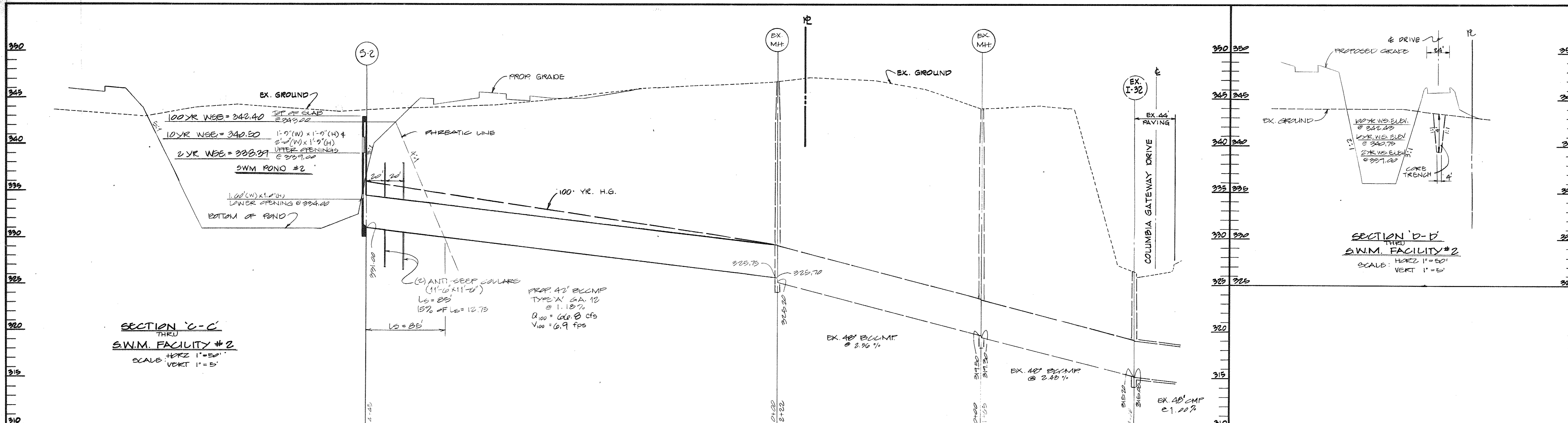
PROPOSED OFFICE FOR RESEARCH & DEVELOPMENT

COLUMBIA SUBSIST

SCALE: AS SHOWN

SHEET 3 OF 11

SDP # 86-231

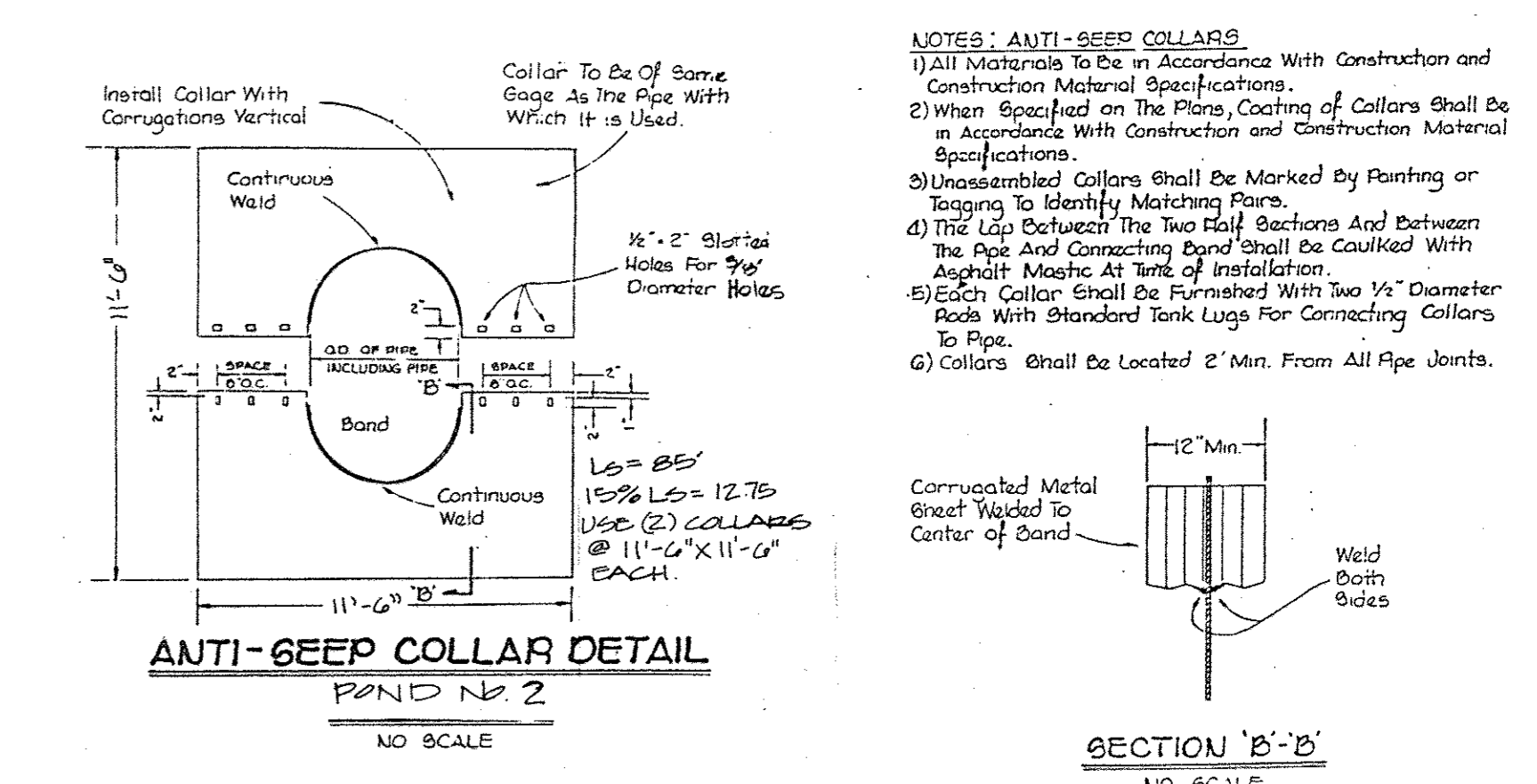
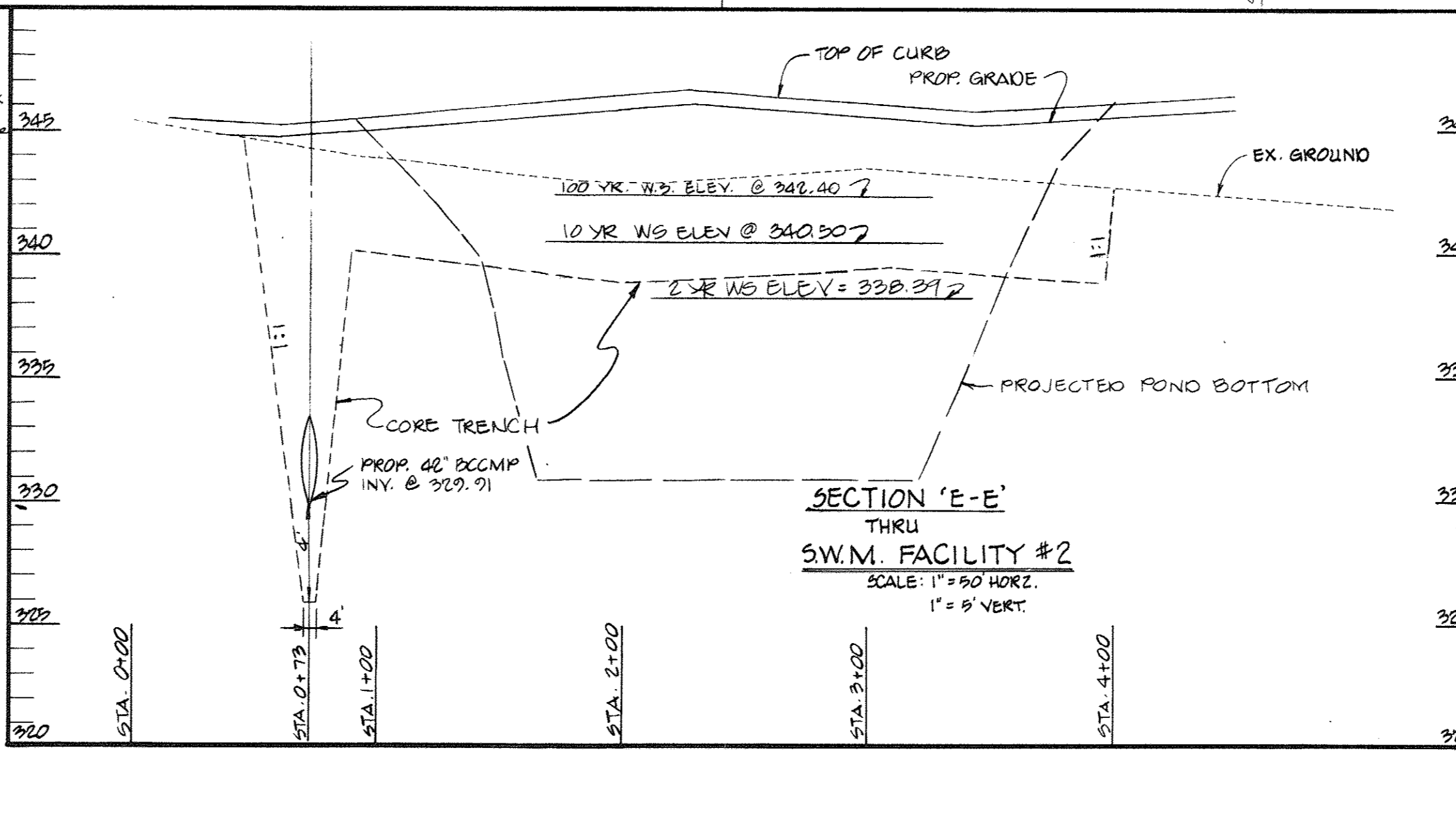


STORM WATER MANAGEMENT DATA

Pond #1
 Per Soils Report - Infiltration is feasible. RATE = 1.0"/HR. 72 HR. MAX PENETRATION MAX. DEPTH TO INFILTRATION = 1.0 FT. @ 1.0 FT. FROM SURFACE.
 Existing Condition:
 Drainage Area to South = 5.55 Ac. ±
 (on-site = 4.25 Ac. ±, off-site = 1.30 Ac. ±)
 Soil Group = "C"
 RCW = 71
 2 yr. flow = 6.42 cfs
 10 yr. flow = 23.68 cfs
 100 yr. flow = 26.77 cfs
 Proposed Condition:
 (i) Drainage Area to South - Not Managed
 D.A. = 1.66 Ac. ± (on-site)
 RCW = 71
 2 yr. flow = 3.14 cfs
 10 yr. flow = 6.94 cfs
 100 yr. flow = 11.59 cfs
 Therefore, Allowable Release from the Pond #1:
 2 yr. Allowable Release = 6.42 - 3.14 = 3.28 cfs
 10 yr. Allowable Release = 23.68 - 6.94 = 16.74 cfs
 100 yr. Allowable Release = 26.77 - 11.59 = 15.18 cfs
 (ii) Drainage Area to the Pond #1 - Routed & Managed
 D.A. = 4.89 Ac. ± (on-site = 1.55 Ac. ±, off-site = 3.35 Ac. ±)
 RCW = 91
 After Routing - Release:
 2 yr. flow = 12.08 cfs
 10 yr. flow = 18.73 cfs
 100 yr. flow = 23.41 cfs
 2 and 10 yr. Storm Water Management Required:
 2, 10 & 100 yr. Storm Water Management Provided:
 23.41 cfs

HAZARD CLASS - "A"
 Watershed Area = 4.50 Ac. ±
 Principal Spillway = 100 yr. storm 18.73 cfs
 Emergency Spillway = From 100 yr. storm 18.73 cfs
 Freeboard above 100 yr. WS = 2'-0"

STRUCTURAL CLASSIFICATION:
 Structural Class = "A"
 Watershed Area = 4.50 Ac. ±
 Storage Height Product = 4.50 Ac. ft x 0.50 ft = 2.25 Ac. ft

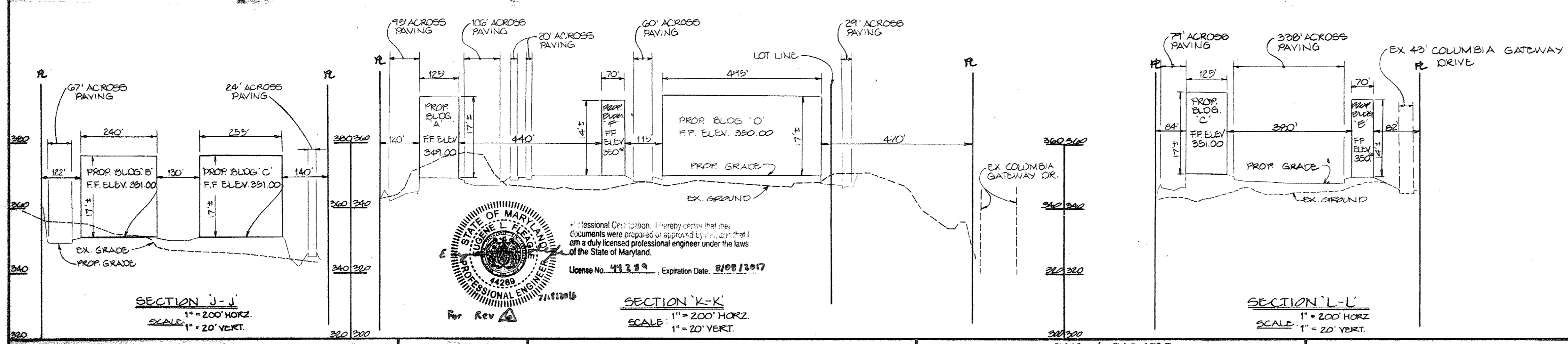


THESE PLANS HAVE BEEN REVIEWED FOR THE HAZARDOUS SOIL CONSIDERATION DISTRICT MEET THE TECHNICAL REQUIREMENTS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL.

James M. Vela 8-6-86 DATE
 U.S. SOIL CONSERVATION SERVICE

THESE PLANS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL MEET THE REQUIREMENTS OF HAZARDOUS SOIL CONSIDERATION DISTRICT.

APPROVED: *Robert W. Zichow* 8-6-86 DATE
 SDP-86-23 PLAN NUMBER
 HAZARDOUS SOIL CONSIDERATION DISTRICT



APPROVED
 DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION
 HOWARD COUNTY, MARYLAND
 DATE: 7-2-86

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS HOWARD COUNTY DEPARTMENT OF PUBLIC UTILITIES HEALTH OFFICE DATE: 7-15-86

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING DATE: 8-18-86

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS HOWARD COUNTY DEPARTMENT OF PUBLIC UTILITIES DATE: 8-18-86

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS HOWARD COUNTY DEPARTMENT OF PUBLIC UTILITIES DATE: 8-18-86

GEORGE WILLIAM STEPHENS, JR. AND ASSOCIATES, INC.
 CIVIL ENGINEERS & LAND SURVEYORS
 303 ALLEGHENY AVENUE
 TOWSON, MARYLAND 21284
 (301) 825-8120

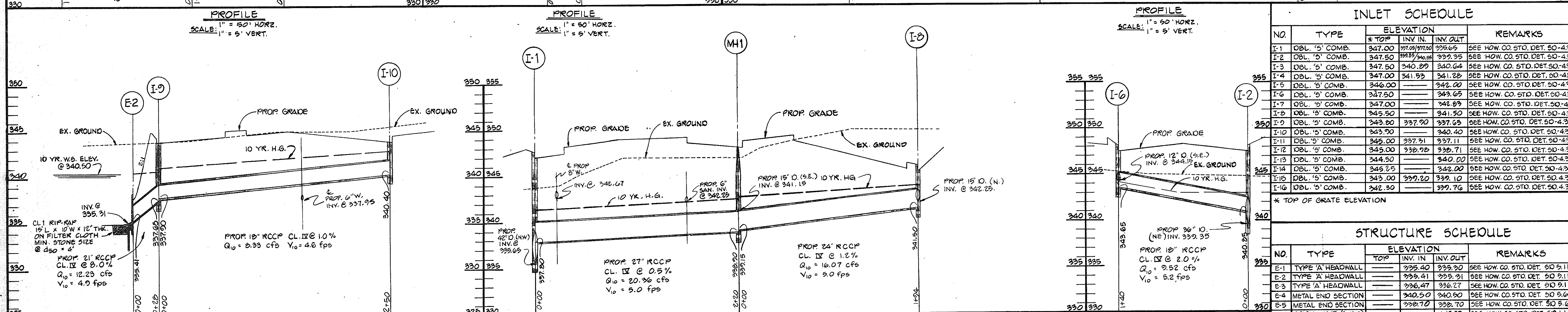
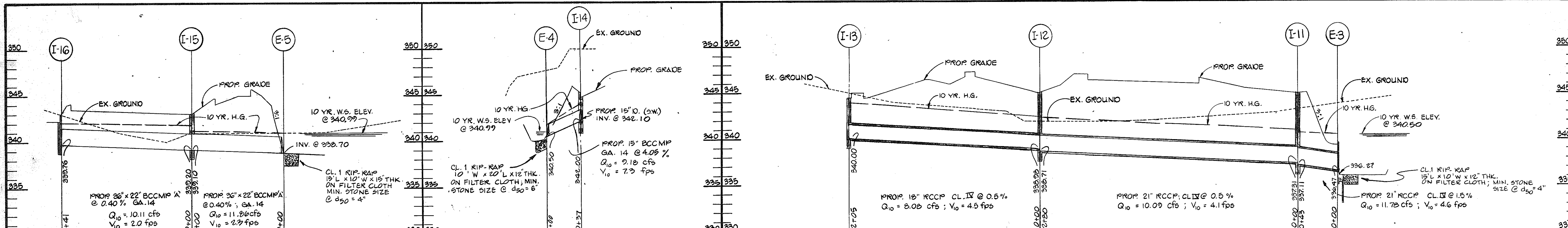
ENGINEER
Joseph A. Clark 8930
 SIGNATURE: JOSEPH A. CLARK REG. NO. DATE: 4/16/86

OWNER / DEVELOPER
 THE HOWARD RESEARCH & DEVELOPMENT CORP.
 10275 LITTLE PATUXENT PARKWAY
 COLUMBIA, MARYLAND, 21044
 (301) 202-6033
CONTRACT PURCHASER
 M.C.R. XXXIII PARTNERSHIP
 50 MARLBOROUGH CORPORATION
 10270 OLD COLUMBIA RD.
 COLUMBIA, MARYLAND, 21040 (301) 205-1670

DEVELOPER
John H. Vela ASST. V.P. DATE: 4-16-86

DESIGNED BY: JWS/VB
 DRAWN BY: DL
 CHECKED BY: TE
 REVISIONS
 07-18-86 SWM 1
 OUTRILL BARREL
 SPLITTING
 * 9-28-2015 SURVEY

S.W.M. PROFILES & DETAILS
 PROPOSED OFFICE FOR RESEARCH & DEVELOPMENT
 COLUMBIA GATEWAY
 PARCEL 'J'
 TOWN MAP # 42-413
 HOWARD COUNTY, MARYLAND ELECTION DISTRICT # 6
 SCALE: AS SHOWN AREA: 1080
 P.L. 0500 SHEET 4 OF 11
 SDP # 86-231



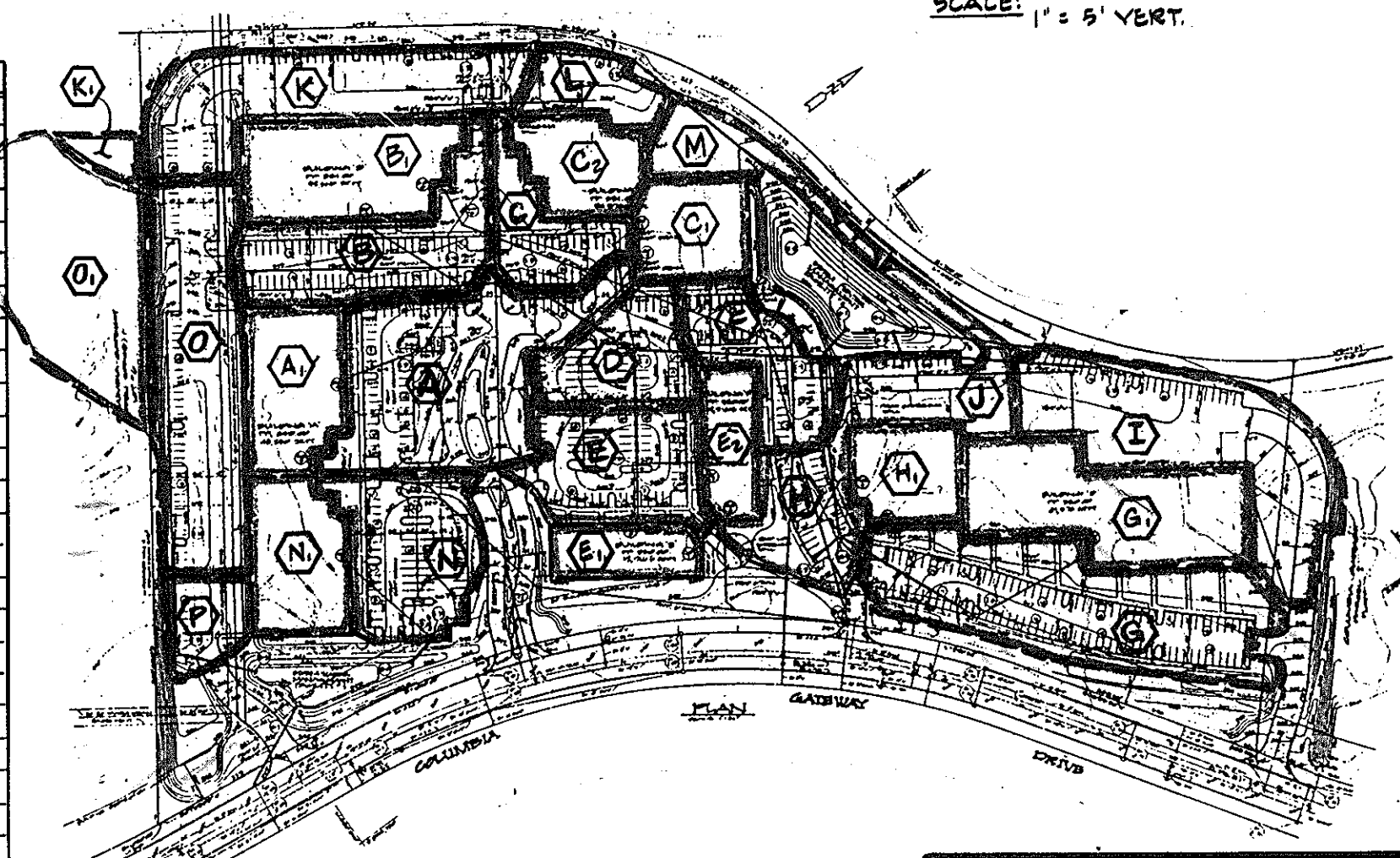
INLET SCHEDULE

NO.	TYPE	ELEVATION			REMARKS
		* TOP	INV. IN.	INV. OUT.	
I-1	DBL. '5' COMB.	347.00	337.00	338.65	SEE HOW. CO. STD. DET. 50-4.34
I-2	DBL. '5' COMB.	347.50	337.50	339.35	SEE HOW. CO. STD. DET. 50-4.34
I-3	DBL. '5' COMB.	347.50	340.00	340.64	SEE HOW. CO. STD. DET. 50-4.34
I-4	DBL. '5' COMB.	347.00	341.50	341.28	SEE HOW. CO. STD. DET. 50-4.34
I-5	DBL. '5' COMB.	346.00		342.00	SEE HOW. CO. STD. DET. 50-4.34
I-6	DBL. '5' COMB.	347.50		343.65	SEE HOW. CO. STD. DET. 50-4.34
I-7	DBL. '5' COMB.	347.00		342.80	SEE HOW. CO. STD. DET. 50-4.34
I-8	DBL. '5' COMB.	345.50		341.50	SEE HOW. CO. STD. DET. 50-4.34
I-9	DBL. '5' COMB.	343.80	337.90	337.65	SEE HOW. CO. STD. DET. 50-4.34
I-10	DBL. '5' COMB.	343.90		340.40	SEE HOW. CO. STD. DET. 50-4.34
I-11	DBL. '5' COMB.	345.00	337.50	337.11	SEE HOW. CO. STD. DET. 50-4.34
I-12	DBL. '5' COMB.	345.00	338.75	338.71	SEE HOW. CO. STD. DET. 50-4.34
I-13	DBL. '5' COMB.	344.50		340.00	SEE HOW. CO. STD. DET. 50-4.34
I-14	DBL. '5' COMB.	345.25		342.00	SEE HOW. CO. STD. DET. 50-4.34
I-15	DBL. '5' COMB.	343.00	339.20	339.10	SEE HOW. CO. STD. DET. 50-4.34
I-16	DBL. '5' COMB.	342.30		339.76	SEE HOW. CO. STD. DET. 50-4.34

* TOP OF GRATE ELEVATION

STRUCTURE SCHEDULE

NO.	TYPE	ELEVATION			REMARKS
		TOP	INV. IN.	INV. OUT.	
E-1	TYPE 'A' HEADWALL		335.40	335.20	SEE HOW. CO. STD. DET. 50 5.11
E-2	TYPE 'A' HEADWALL		335.41	335.21	SEE HOW. CO. STD. DET. 50 5.11
E-3	TYPE 'A' HEADWALL		336.47	336.27	SEE HOW. CO. STD. DET. 50 5.11
E-4	METAL END SECTION		340.50	340.20	SEE HOW. CO. STD. DET. 50 5.61
E-5	METAL END SECTION		338.70	338.70	SEE HOW. CO. STD. DET. 50 5.63
WVE	BRICK WYE (SINGLE)		338.70	338.70	SEE HOW. CO. STD. DET. 50 1.11
MH-1	BRICK MANHOLE	348.20	341.50	339.20	SEE HOW. CO. STD. DET. G 3.01



THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD COUNTY CONSERVATION DISTRICT MEET THE TECHNICAL REQUIREMENTS FOR SMALL SCALE CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL.

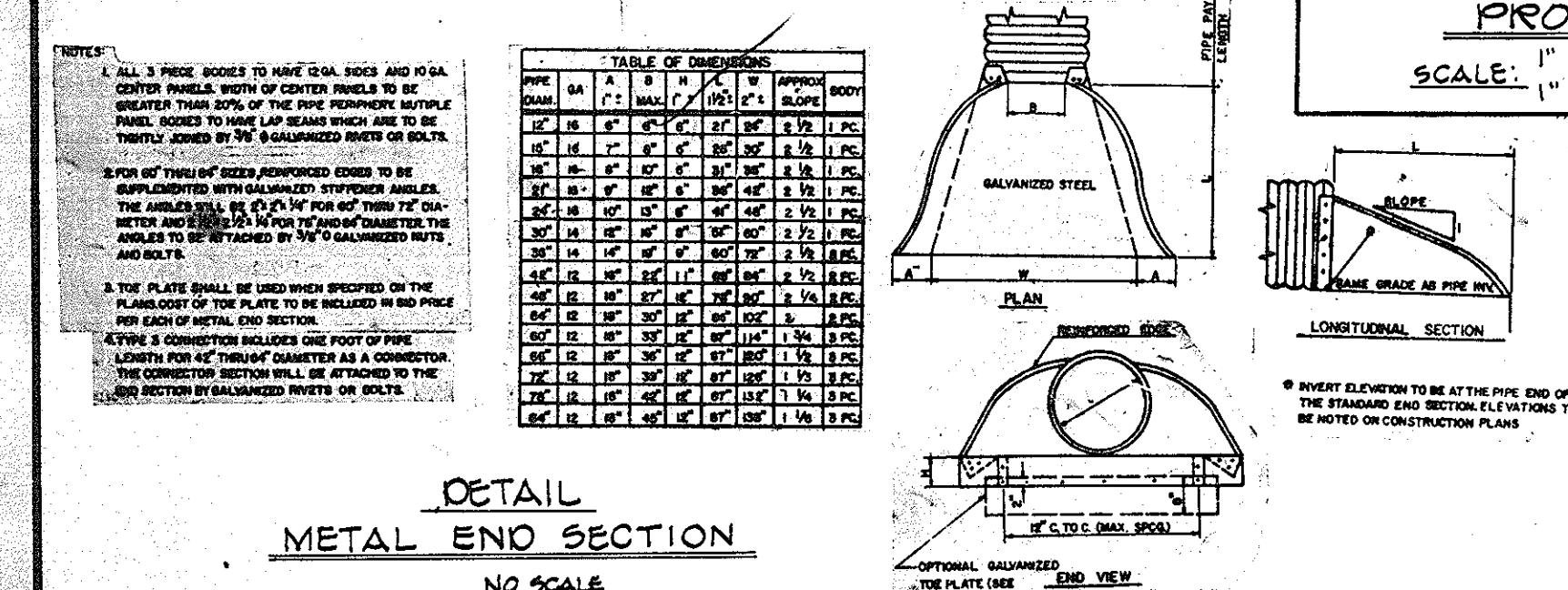
APPROVED: *John M. Nichols* 8-6-86
 U.S. SOIL CONSERVATION SERVICE

THESE PLANS FOR SMALL SCALE CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL MEET THE REQUIREMENTS OF HOWARD COUNTY CONSERVATION DISTRICT.

APPROVED: *Robert J. Ziehm* 8-6-86
 HOWARD COUNTY CONSERVATION DISTRICT

SD-86-231
 PLAN NUMBER

D.A.	AC.±	'C'
A	1.42	0.67
A ₁	0.95	0.95
B	0.80	0.64
B ₁	0.75	0.95
C	0.46	0.51
C ₁	0.40	0.95
C ₂	0.40	0.95
D	0.50	0.84
E	0.65	0.79
E ₁	0.30	0.95
F	0.84	0.72
G	1.61	0.97
H	1.02	0.95
H ₁	0.96	0.95
I	1.30	0.75
K	1.20	0.75
K ₁	0.15	0.30
L	0.30	0.94
M	0.36	0.89
N	0.76	0.74
N ₁	0.55	0.95
D	1.31	0.75
O ₁	1.15	0.30
P	0.27	0.79



APPROVED
 DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION
 HOWARD COUNTY, MARYLAND
 DATE: 7-2-86

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS HOWARD COUNTY HEALTH DEPARTMENT.
John M. Nichols 8-15-86
 COUNTY HEALTH OFFICE

APPROVED: *James M. Nichols* 8-8-86
 HOWARD COUNTY OFFICE OF PLANNING AND ZONING

APPROVED: *John M. Nichols* 8-18-86
 CHIEF DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS HOWARD COUNTY HEALTH DEPARTMENT.
John M. Nichols 8-18-86
 COUNTY HEALTH OFFICE

APPROVED: *John M. Nichols* 8-18-86
 CHIEF BUREAU OF ENGINEERING

GEORGE WILLIAM STEPHENS, JR. AND ASSOCIATES, INC.
 CIVIL ENGINEERS & LAND SURVEYORS
 303 ALLEGHENY AVENUE
 TOWSON, MARYLAND 21204
 (301) 825-8120

ENGINEER
Tapobrata Chakrabarti 8930
 SIGNATURE TAPOBRA TA CHAKRABARTI REG. NO. 8930
 DATE 4/16/86

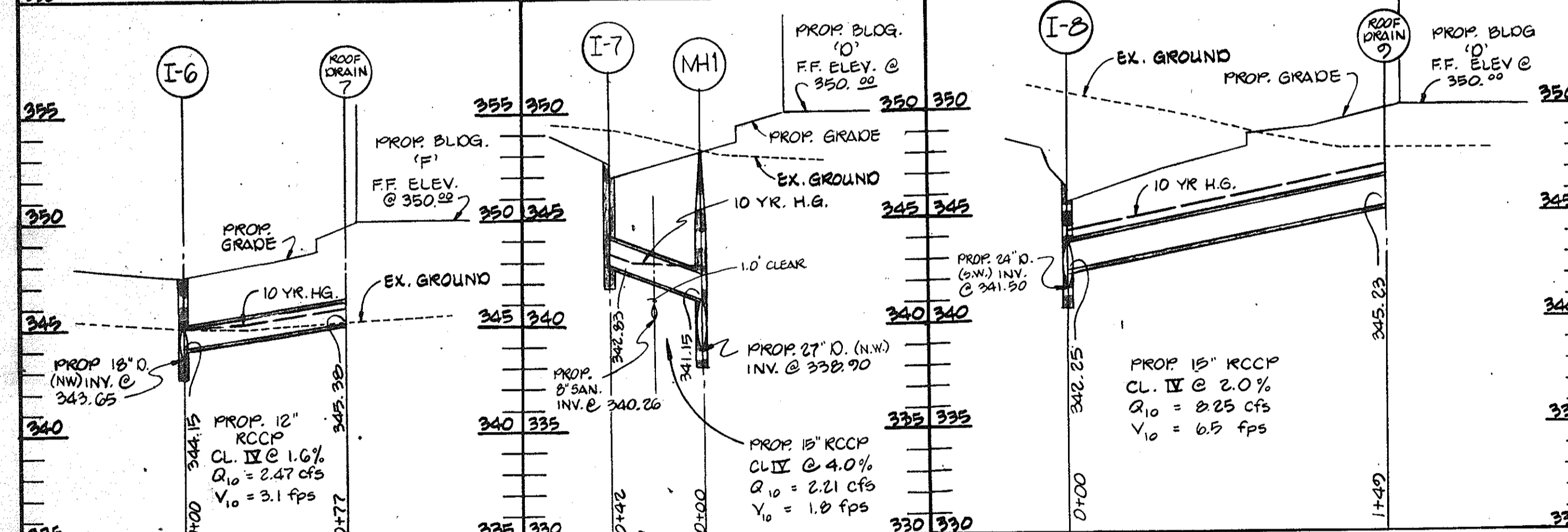
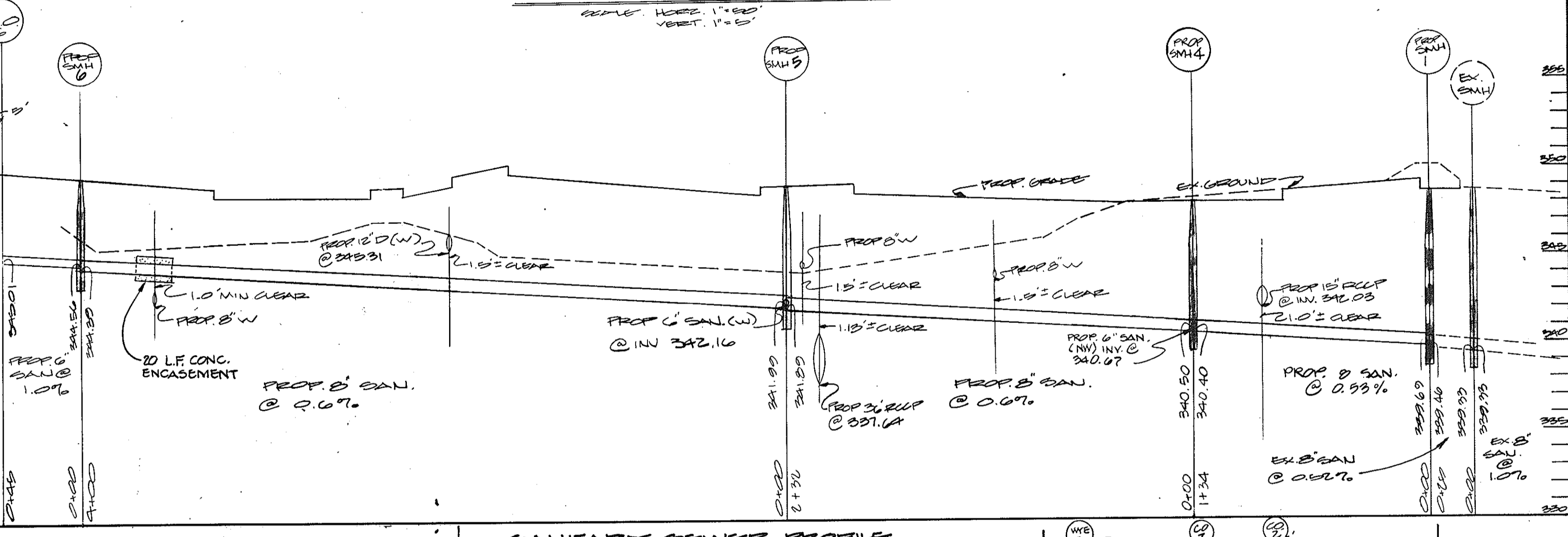
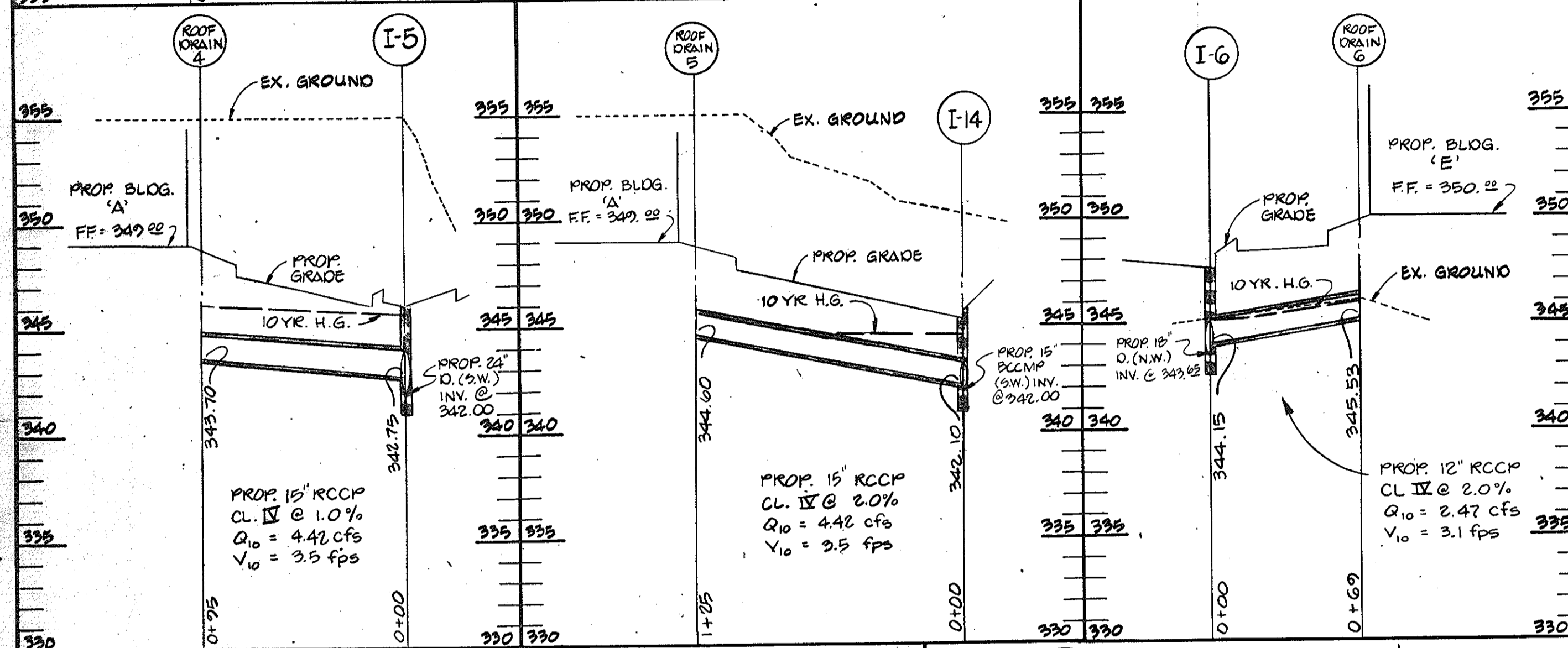
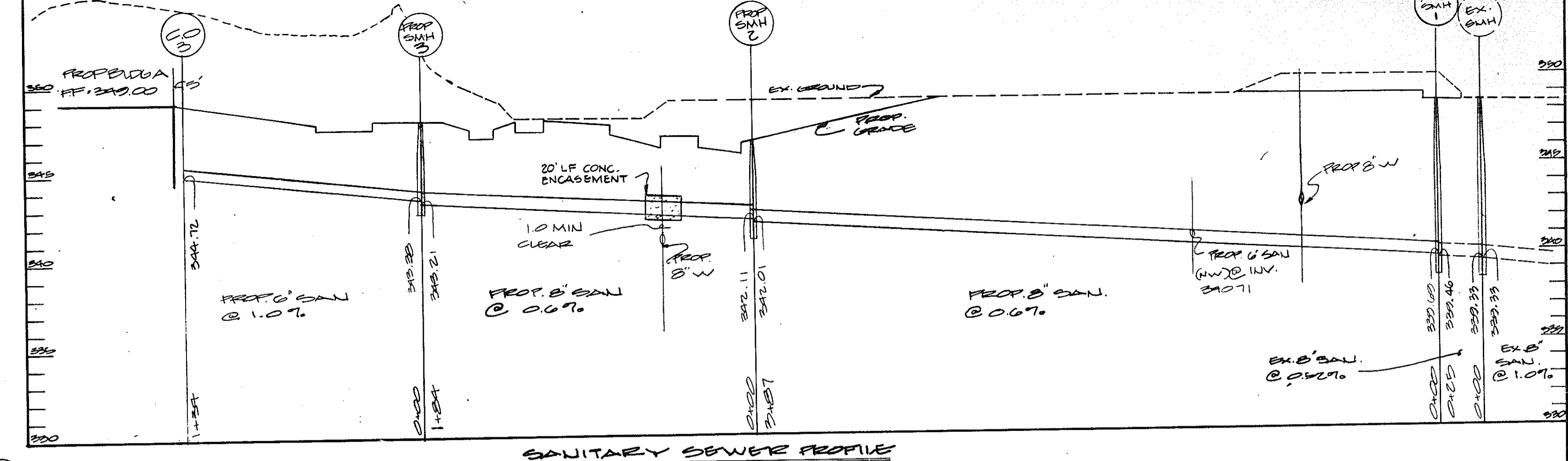
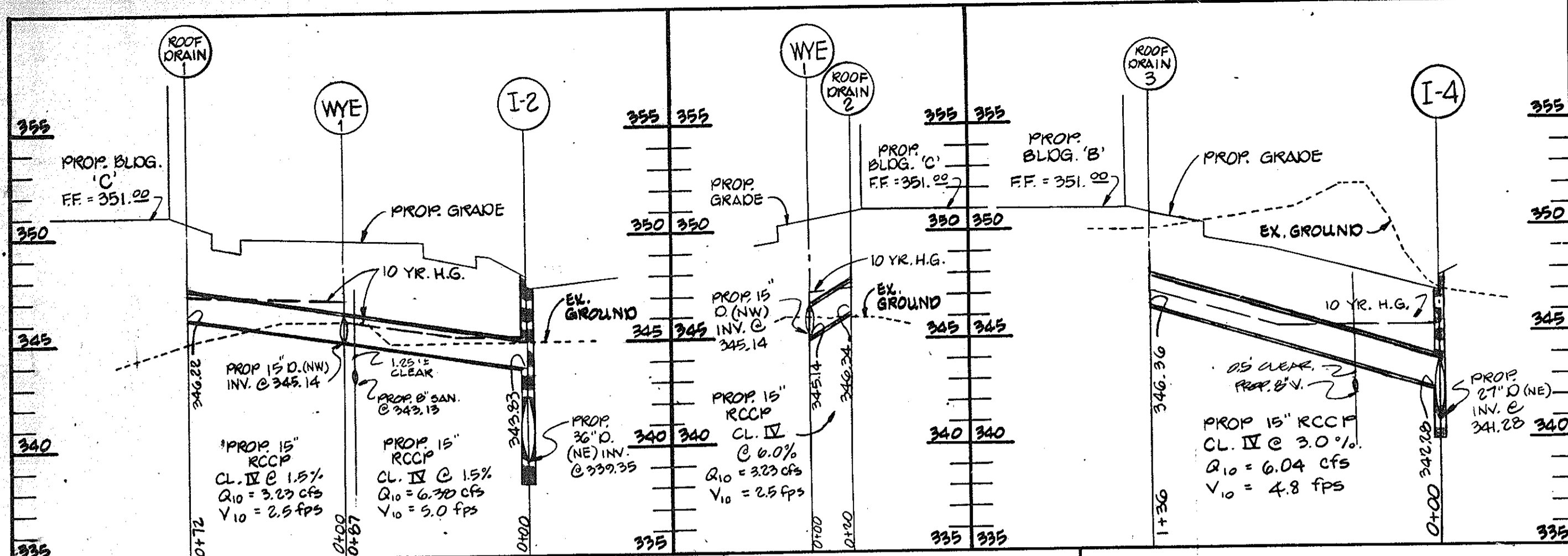
OWNER / DEVELOPER
THE HOWARD RESEARCH & DEVELOPMENT CORP.
 10276 LITTLE PATUXENT PARKWAY
 COLUMBIA, MARYLAND 21044
 (301) 292-6033

CONTRACT PURCHASER
MGR. XXXIII PARTNERSHIP
 50 MARSHALL COOPERATION
 10270 OLD COLUMBIA RD.
 COLUMBIA, MARYLAND 21040 (301) 295-1670

DEVELOPER
John M. Nichols
 SIGNATURE
 ASST. Y.P. A-14-86
 DATE

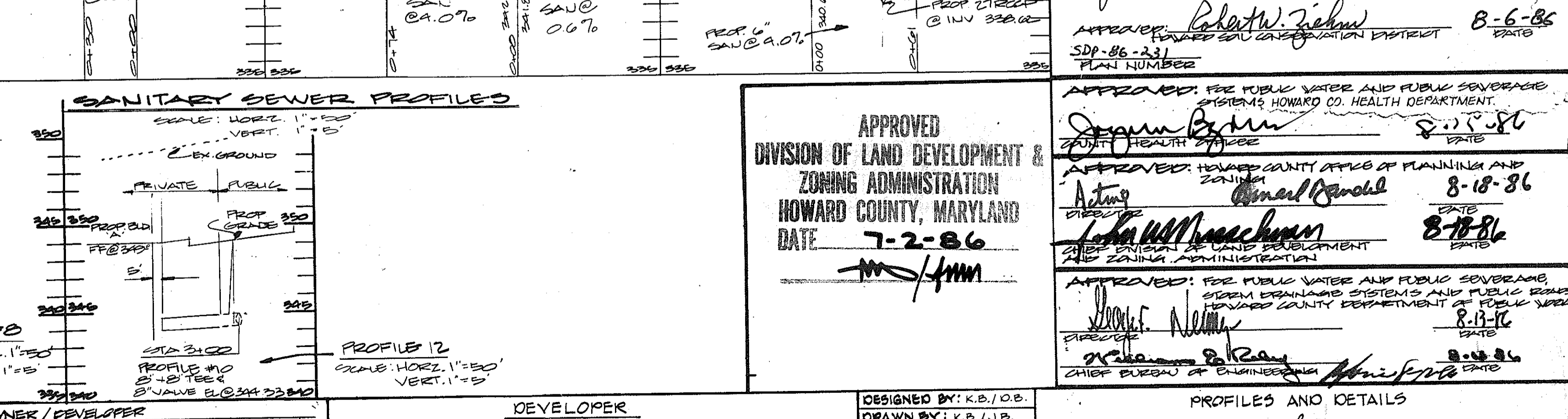
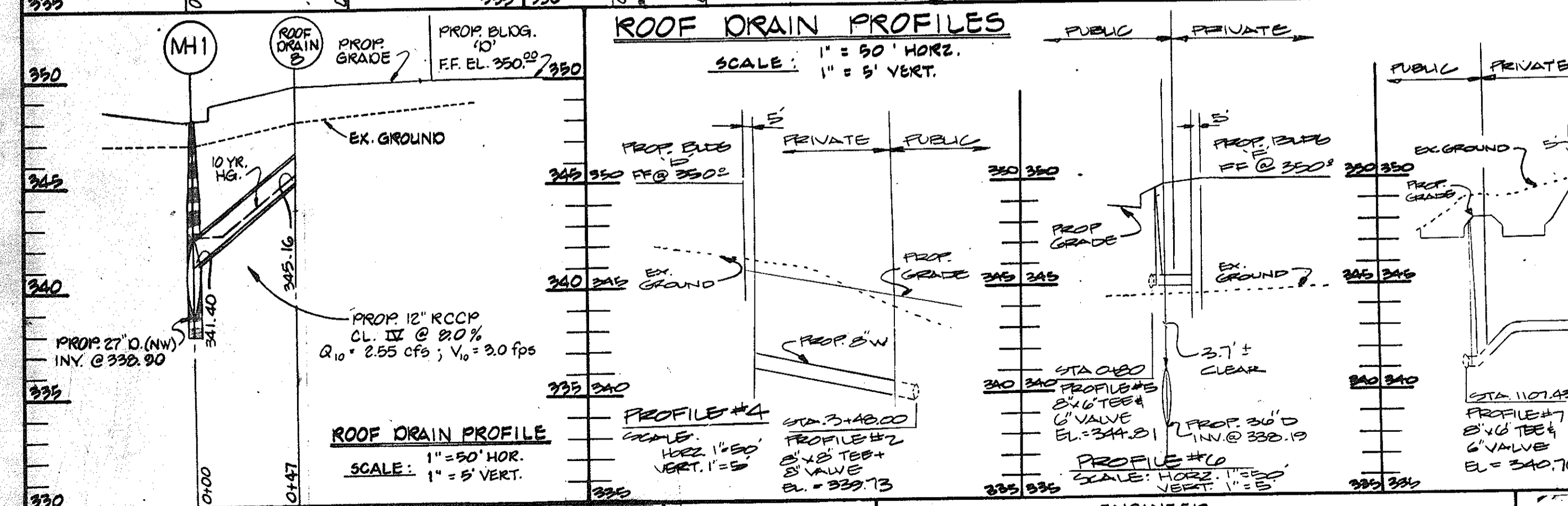
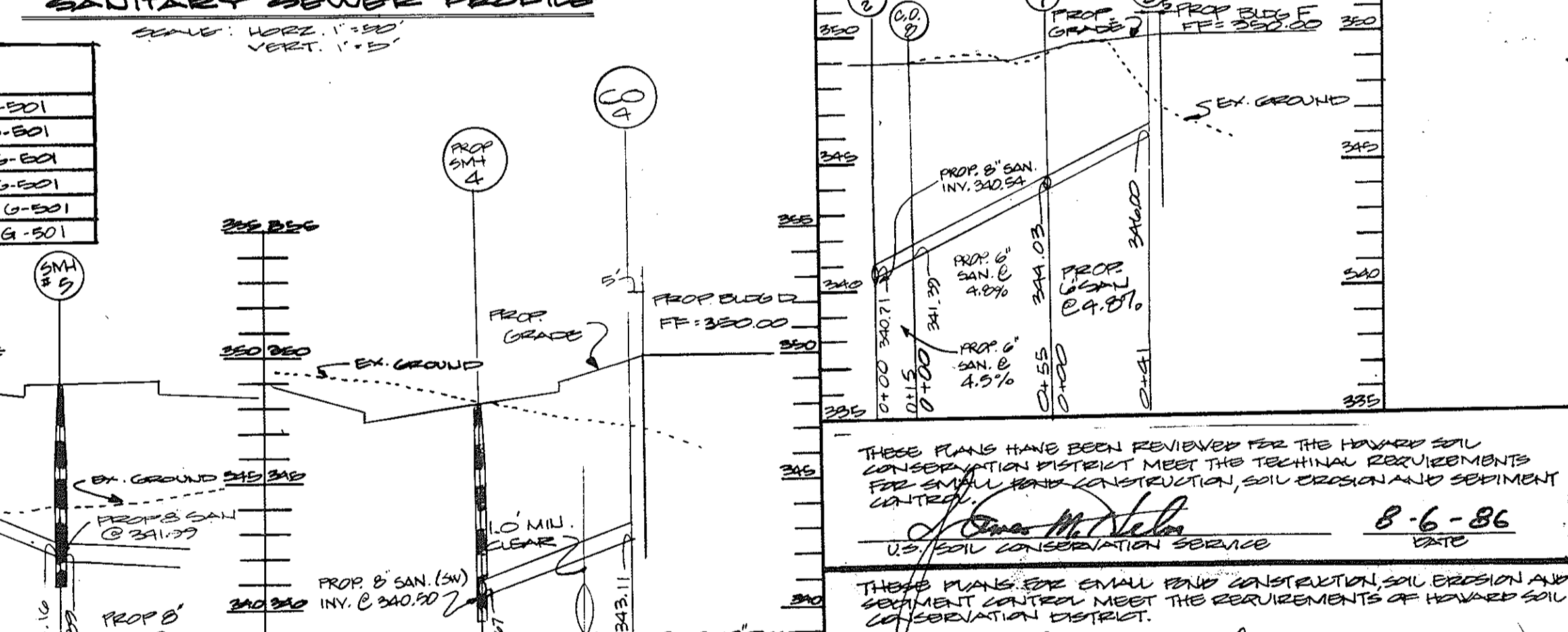
DESIGNED BY: K.L.B.
 DRAWN BY: K.L.B.
 CHECKED BY: T.C.
 REVISIONS

STORM DRAIN PROFILES AND DETAILS
 PROPOSED OFFICE FOR RESEARCH & DEVELOPMENT
 PARK
 COLUMBIA SYSTEMS
 TAX MAP # 42-843
 HOWARD COUNTY, MARYLAND ELECTION DISTRICT # 2
 SCALE: AS SHOWN
 P.N. 0243
 SHEET 5 OF 11
 SDP # 86-231



MANHOLE SCHEDULE

NO.	TYPE	ELEVATION		REMARKS
		TOP	INVERT	
250	STD BRICK MANHOLE	348.80	348.40	SEE HOWARD CO DETAIL G-201
251	STD BRICK MANHOLE	347.00	346.01	SEE HOWARD CO DETAIL G-201
252	STD BRICK MANHOLE	348.10	348.21	SEE HOWARD CO DETAIL G-201
253	STD BRICK MANHOLE	340.50	340.40	SEE HOWARD CO DETAIL G-201
254	STD BRICK MANHOLE	349.00	349.00	SEE HOWARD CO DETAIL G-201
255	STD BRICK MANHOLE	344.50	344.50	SEE HOWARD CO DETAIL G-201



GEORGE WILLIAM STEPHENS, JR. AND ASSOCIATES, INC.
 CIVIL ENGINEERS & LAND SURVEYORS
 303 ALLEGHENY AVENUE
 TOWSON, MARYLAND 21284
 (301) 825-8120

ENGINEER
 Signature: [Signature]
 DATE: 4/16/86

OWNER/DEVELOPER
 THE HOWARD RESEARCH & DEVELOPMENT CORP.
 10275 LITTLE PATUXENT PARKWAY
 COLUMBIA, MARYLAND 21044
 (301) 992-0033

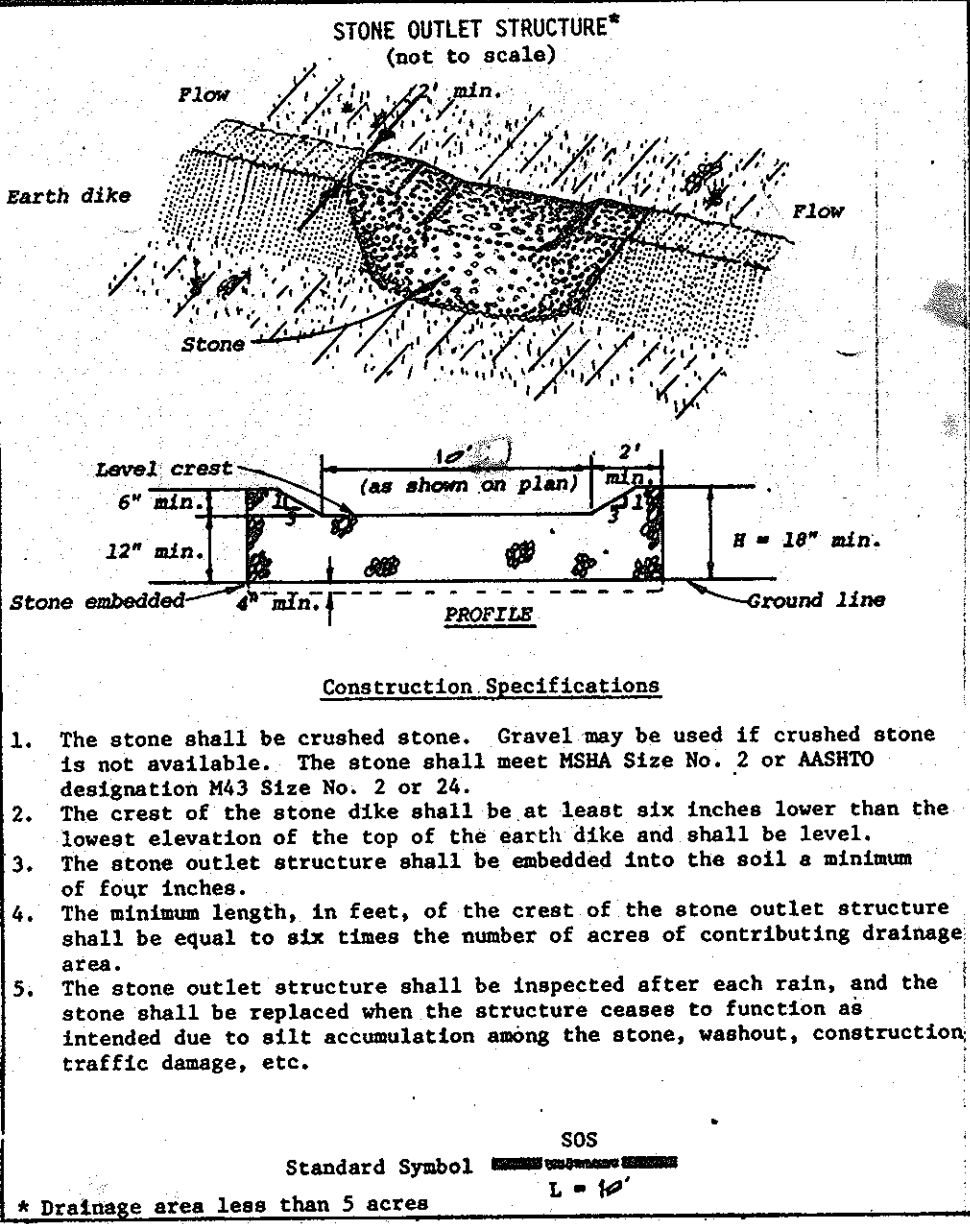
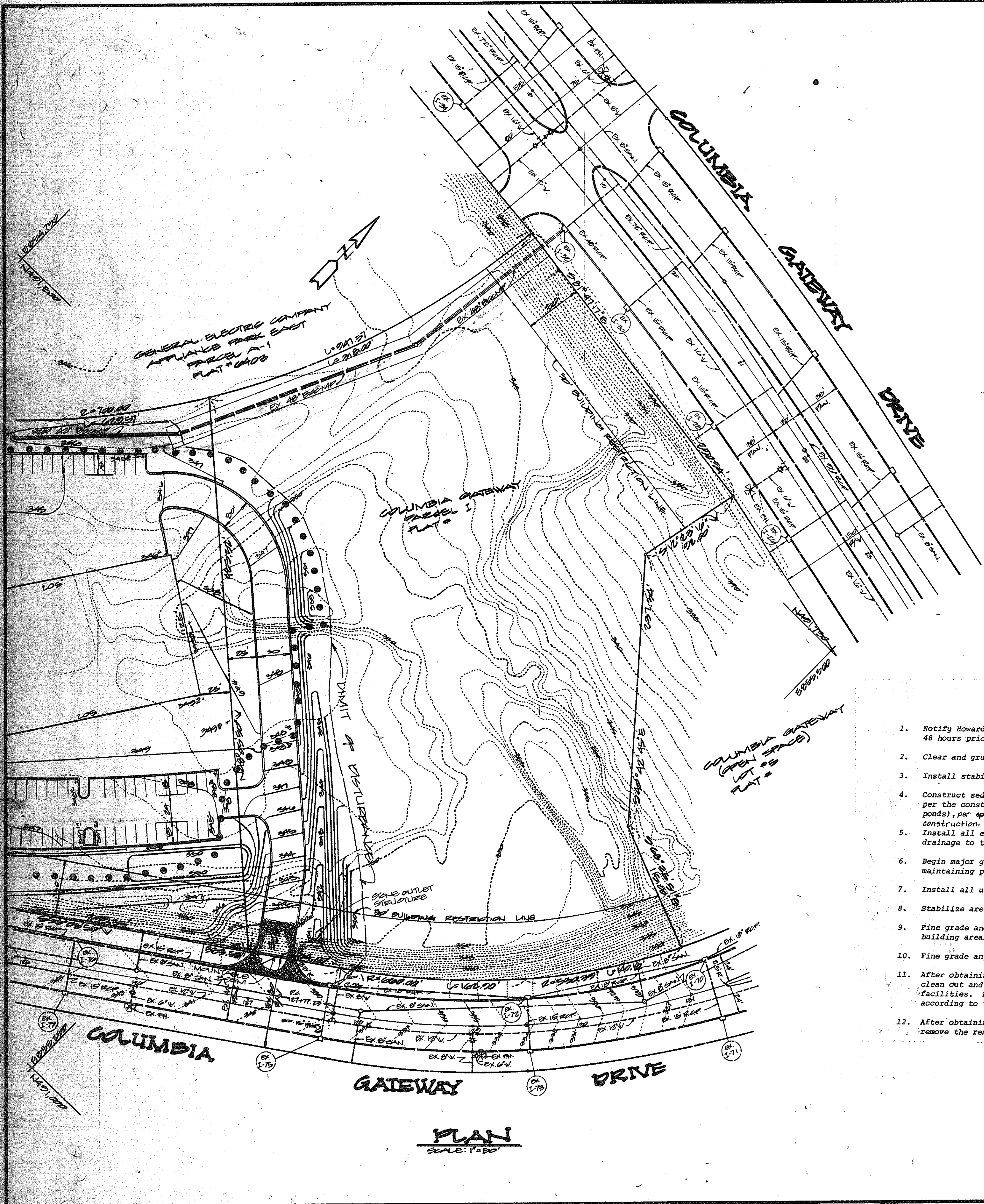
DEVELOPER
 Signature: [Signature]
 DATE: 4-18-86

APPROVED
 DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION
 HOWARD COUNTY, MARYLAND
 DATE: 7-2-86

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT MEET THE TECHNICAL REQUIREMENTS FOR SMALL SCALE CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL.
 APPROVED: [Signature] 8-6-86
 U.S. SOIL CONSERVATION SERVICE

THESE PLANS ARE SMALL SCALE CONSTRUCTION SOIL EROSION AND SEDIMENT CONTROL MEET THE REQUIREMENTS OF HOWARD SOIL CONSERVATION DISTRICT.
 APPROVED: [Signature] 8-6-86
 SDP-86-23
 PLAN NUMBER

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS HOWARD CO. HEALTH DEPARTMENT.
 APPROVED: [Signature] 8-18-86
 APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING
 APPROVED: [Signature] 8-18-86
 APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 APPROVED: [Signature] 8-18-86
 CHIEF BUREAU OF ENGINEERING



PERMANENT SEEDING NOTES

Seeding Preparation: Loosen upper 3 inches of soil by raking, disking or other acceptable means before seeding.

Soil Amendments: Use one of the following schedules:

- Preferred:** Apply 2 tons per acre dolomitic limestone (92 lbs./1000 sq. ft.) and 400 lbs. per acre 10-10-10 fertilizer (14 lbs./1000 sq. ft.) before seeding. For the period March 1 thru April 30, and August 1 thru October 15, seed with 60 lbs. per acre (1.4 lbs./1000 sq. ft.) of Kentucky 31 tall fescue per acre and 2 lbs. per acre (.05 lbs./1000 sq. ft.) of weeping lovegrass. During the period of October 16 thru February 28, protect site by Option (1) 2 tons per acre of well-rotted straw mulch and seed as soon as possible in the spring. Option (2) Use sod. Option (3) Seed with 60 lbs./acre Kentucky 31 tall fescue and mulch with 2 tons of well-rotted straw.
- Acceptable:** Apply 2 tons per acre dolomitic limestone (92 lbs./1000 sq. ft.) and 1000 lbs. per acre 10-10-10 fertilizer (23 lbs./1000 sq. ft.) before seeding. Mow or disc into upper three inches of soil.

Seeding: For the periods March 1 thru April 30, and August 1 thru October 15, seed with 60 lbs. per acre (1.4 lbs./1000 sq. ft.) of Kentucky 31 tall fescue per acre and 2 lbs. per acre (.05 lbs./1000 sq. ft.) of weeping lovegrass. During the period of October 16 thru February 28, protect site by Option (1) 2 tons per acre of well-rotted straw mulch and seed as soon as possible in the spring. Option (2) Use sod. Option (3) Seed with 60 lbs./acre Kentucky 31 tall fescue and mulch with 2 tons of well-rotted straw.

Mulching: Apply 11 to 2 tons per acre (70-90 lbs./1000 sq. ft.) of unrotted small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 21/2 gallons per acre (5 gal./1000 sq. ft.) of emulsified asphalt on flat areas. On slopes 8 feet or higher, use 348 gallons per acre (8 gal./1000 sq. ft.) for anchoring.

Maintenance: Inspect all seeded areas and make needed repairs, replacements and reseedings.

TEMPORARY SEEDING NOTES

Seeding Preparation: Loosen upper 3 inches of soil by raking, disking or other acceptable means before seeding.

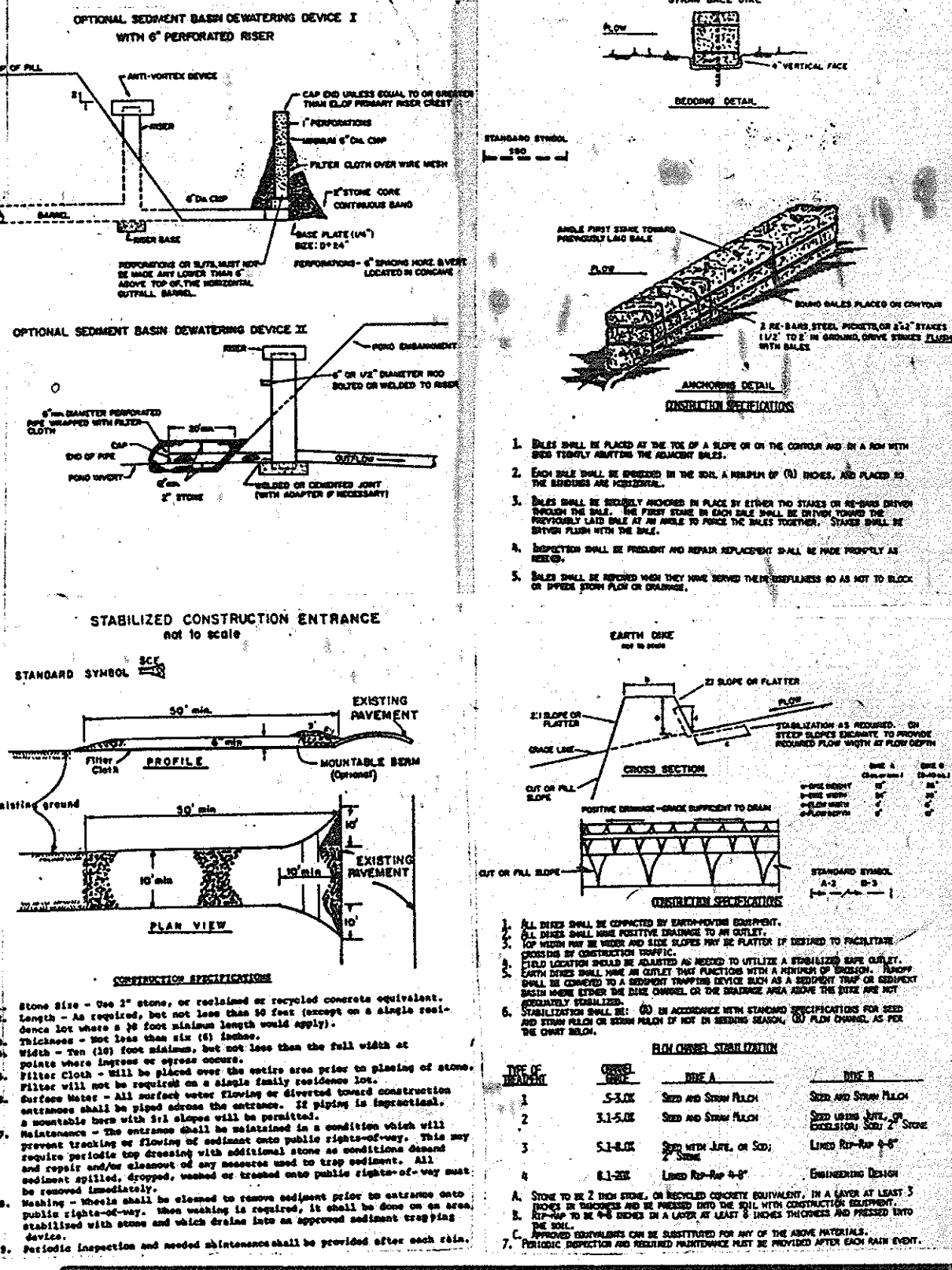
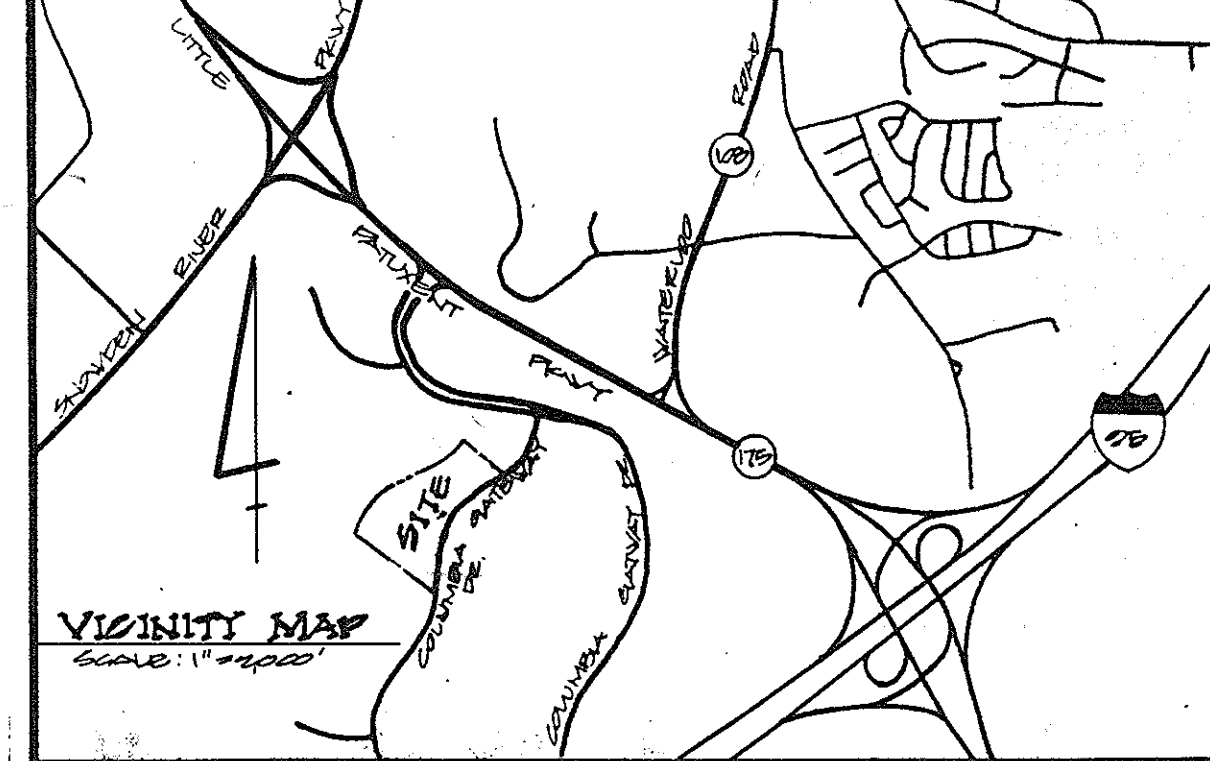
Soil Amendments: Apply 400 lbs. per acre 10-10-10 fertilizer (14 lbs./1000 sq. ft.)

Seeding: For periods March 1 thru April 30 and from August 15 thru Nov. 15, seed with 20 lbs. per acre of annual ryegrass (1 lb./1000 sq. ft.). For the period May 1 thru August 14, seed with 3 lbs. per acre of weeping lovegrass (.07 lbs./1000 sq. ft.). For the period November 16 thru February 28, protect site by applying 2 tons per acre of well-rotted straw mulch and seed as soon as possible in the spring. Option (2) Use sod. Option (3) Seed with 60 lbs./acre Kentucky 31 tall fescue and mulch with 2 tons of well-rotted straw.

Mulching: Apply 11 to 2 tons per acre (70-90 lbs./1000 sq. ft.) of unrotted small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 2 1/2 gal. per acre (5 gal./1000 sq. ft.) of emulsified asphalt on flat areas. On slopes, 8 ft. or higher, use 348 gal. per acre (8 gal./1000 sq. ft.) for anchoring.

GENERAL NOTES

- Refer to 1983 Maryland Standards and Specifications for Soil Erosion and Sediment Control for standard details and detailed specifications of each practice specified herein.
- With the approval of the sediment control inspector, minor field adjustments can and will be made to insure the control of any sediment. Changes in sediment control practices require prior approval of the sediment control inspector and the Howard County Soil Conservation District.
- At the end of each working day, all sediment control practices will be inspected and left in operational condition.
- Following initial soil disturbance or redistribution, permanent or temporary stabilization shall be completed within 7 calendar days. Calendar days as to the surface of all perimeter controls, dikes, swales, ditches, perimeter slopes and all slopes greater than 2:1. Fourteen days for all other disturbed or graded areas on the project site.
- Any change to the grading proposed on this plan requires re-submission to the Howard County Soil Conservation District for approval.
- Dust control will be provided for all disturbed areas. Refer to 1983 Maryland Standards and Specifications for Soil Erosion and Sediment Control, pp. 62.01 and 62.02 for acceptable methods and specifications for dust control.
- Any variation from the sequence of operations stated on this plan requires the approval of the sediment control inspector and the Howard County Soil Conservation District prior to the initiation of the change.



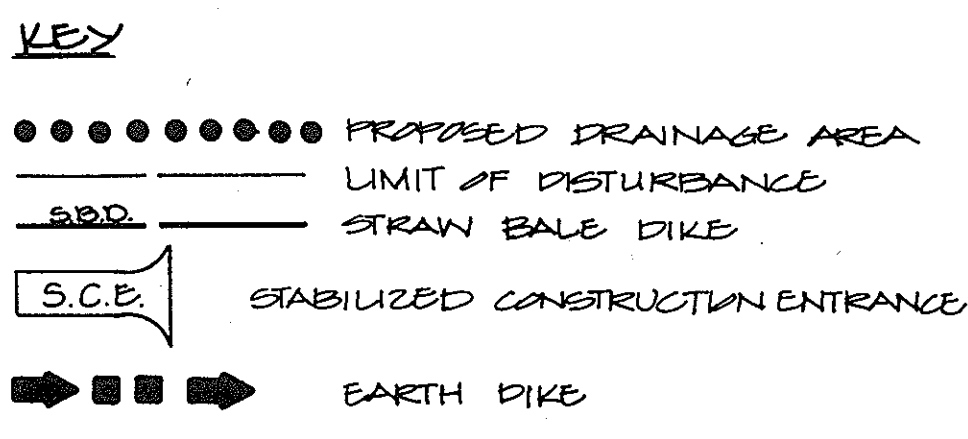
SEQUENCE OF CONSTRUCTION

- Notify Howard County, Department of Inspections, Permit Inspector 48 hours prior to beginning work. **2 Days**
- Clear and grub for sediment control measures only. **2 Days**
- Install stabilized construction entrances. **1 Day**
- Construct sediment basins (sediment basins shall be constructed per the construction specifications of storm water management ponds), per specifications as shown on sheet 9 of 11 for initial construction. **10 Days**
- Install all earth dikes and straw bale dikes maintaining positive drainage to the sediment basins at all times. **2 Days**
- Begin major grading and adjust diversion dikes as work progresses maintaining positive drainage to the sediment basins at all times. **12 Days**
- Install all utilities. **20 Days**
- Stabilize areas not receiving paving. **2 Days**
- Fine grade and install subbase material in parking and building areas. **14 Days**
- Fine grade any remaining areas and stabilize. **7 Days**
- After obtaining permission from the Sediment Control Inspector, clean out and convert the sediment basins to storm water management facilities. Make the necessary changes to the release structures according to the approved storm water management plans. **7 Days**
- After obtaining permission from the Sediment Control Inspector, remove the remaining sediment control devices and stabilize. **3 Days**

SEEDING CONTROL NOTES

- A minimum of 24 hours notice must be given to the Howard County Office of Inspection and Permitting prior to the start of any construction. (892-2437)
- All vegetative and structural practices are to be installed according to the provisions of this plan and are to be in accordance with the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.
- Following initial soil disturbance or redistribution, permanent or temporary stabilization shall be completed within 7 calendar days for all perimeter sediment control structures, dikes, perimeter slopes and all slopes greater than 2:1. 14 days for all other disturbed or graded areas on the project site.
- All sediment traps/basins shown shall be fenced and warning signs posted around their perimeter in accordance with Vol. 11, Chapter 12, of the HOWARD COUNTY DESIGN MANUAL, Storm Drainage.
- All disturbed areas must be stabilized within the time period specified above in accordance with the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for permanent seeding (Sec. 31) and (Sec. 34), temporary seeding (Sec. 30) and sodding (Sec. 32). Temporary stabilization with mulch alone can only be done when recommended seeding dates do not allow for proper germination and establishment of grasses.
- All sediment control structures are to remain in place and are to be maintained in operative condition until permission for their removal has been obtained from the Howard County Sediment Control Inspector.
- Site analysis:
Total Area of Site: 2000 Acres
Area Disturbed: 2170 Acres
Area to be roofed or paved: 1910 Acres
Area to be vegetatively stabilized: 100 Acres
Total Cut: 6000 Cu. Yds. (plus 10,000 cu. yds. soil)
Total Fill: 1000 Cu. Yds. (plus 1000 cu. yds. soil)
Off-site waste/borrow area location: [REDACTED]
- Any sediment control practice which is disturbed by grading activity for placement of utilities must be repaired on the same day of disturbance.
- Additional sediment controls must be provided, if deemed necessary by the Howard County Sediment Control Inspector.
- On all sites with disturbed areas in excess of 2 acres, approval of the inspection agency shall be requested upon completion of installation of perimeter erosion and sediment control, but before proceeding with any other earth disturbance or grading. Other building or grading activities may not be authorized until this initial approval by the inspection agency is made.

* EXCESS TOPSOIL WILL BE SOIL OR MULCH APPLIED TO A SITE WITH APPROVED SEDIMENT & DUST CONTROL PLAN.



APPROVED
DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION
HOWARD COUNTY, MARYLAND
DATE: 7-2-86
[Signature]

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD COUNTY SOIL CONSERVATION DISTRICT MEET THE TECHNICAL REQUIREMENTS FOR EROSION AND SEDIMENT CONTROL, SOIL DESIGN AND SEDIMENT CONTROL.

APPROVED: [Signature] 8-6-86 DATE

THESE PLANS FOR SMALL ROAD CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL MEET THE REQUIREMENTS OF HOWARD COUNTY SOIL CONSERVATION DISTRICT.

APPROVED: [Signature] 8-6-86 DATE

APPROVED: [Signature] 8-15-86 DATE

APPROVED: [Signature] 8-18-86 DATE

APPROVED: [Signature] 8-18-86 DATE

APPROVED: [Signature] 8-18-86 DATE

ADDRESS SHEET

BUILDING #	STREET ADDRESS
A	
B	
C	
D	
E	
F	

SUBDIVISION NAME: [REDACTED]

PLAT/LA: [REDACTED] **BLK/PT:** [REDACTED] **SEC:** [REDACTED] **TWP/ENCL:** [REDACTED] **BLK/PT:** [REDACTED] **CONTRACTOR:** [REDACTED]

WATER CO: [REDACTED] **OWNER:** [REDACTED]

GEORGE WILLIAM STEPHENS, JR. AND ASSOCIATES, INC.
CIVIL ENGINEERS & LAND SURVEYORS
303 ALLEGHENY AVENUE
TOWSON, MARYLAND 21204
(301) 825-8120

ENGINEER'S CERTIFICATE:
I CERTIFY THAT THIS PLAN FOR ROAD 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 SITE CONDITIONS. THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD COUNTY SOIL CONSERVATION DISTRICT. I HAVE NOTIFIED THE DEVELOPER THAT HE MUST PROVIDE THE HOWARD COUNTY SOIL CONSERVATION DISTRICT WITH A REO-LINED "AS-BUILT" OF THE ROAD WITHIN 30 DAYS OF COMPLETION.

[Signature] 8/20/86 8/20/86

OWNER / DEVELOPER
THE HOWARD RESEARCH & DEVELOPMENT CORP.
10275 LITTLE PATUXENT PARKWAY
COLUMBIA, MARYLAND 21044
(301) 202-6039

CONTRACTOR
MOR. DESIGN PARTNERSHIP
% MARSHALL CORPORATION
10270 OLD COLUMBIA RD.
COLUMBIA, MARYLAND 21040 (301) 202-1670

DEVELOPER'S CERTIFICATE:
I CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE MADE ACCORDING TO THESE PLANS AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPT. OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF EROSION AND SEDIMENT. I HEREBY AUTHORIZE THIS PROJECT TO ALSO AUTHORIZE PERMIT ALL-SITE INSPECTION BY THE 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 WILL PROVIDE THE HOWARD COUNTY SOIL CONSERVATION DISTRICT WITH A REO-LINED "AS-BUILT" OF THE ROAD WITHIN 30 DAYS OF COMPLETION.

[Signature] 8/20/86

REVISIONS:

NO.	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		

EROSION & SEDIMENT CONTROL PLAN & DETAILS

FOR: [REDACTED]

APPROVED FOR: [REDACTED]

COLUMBIA GATEWAY DRIVE

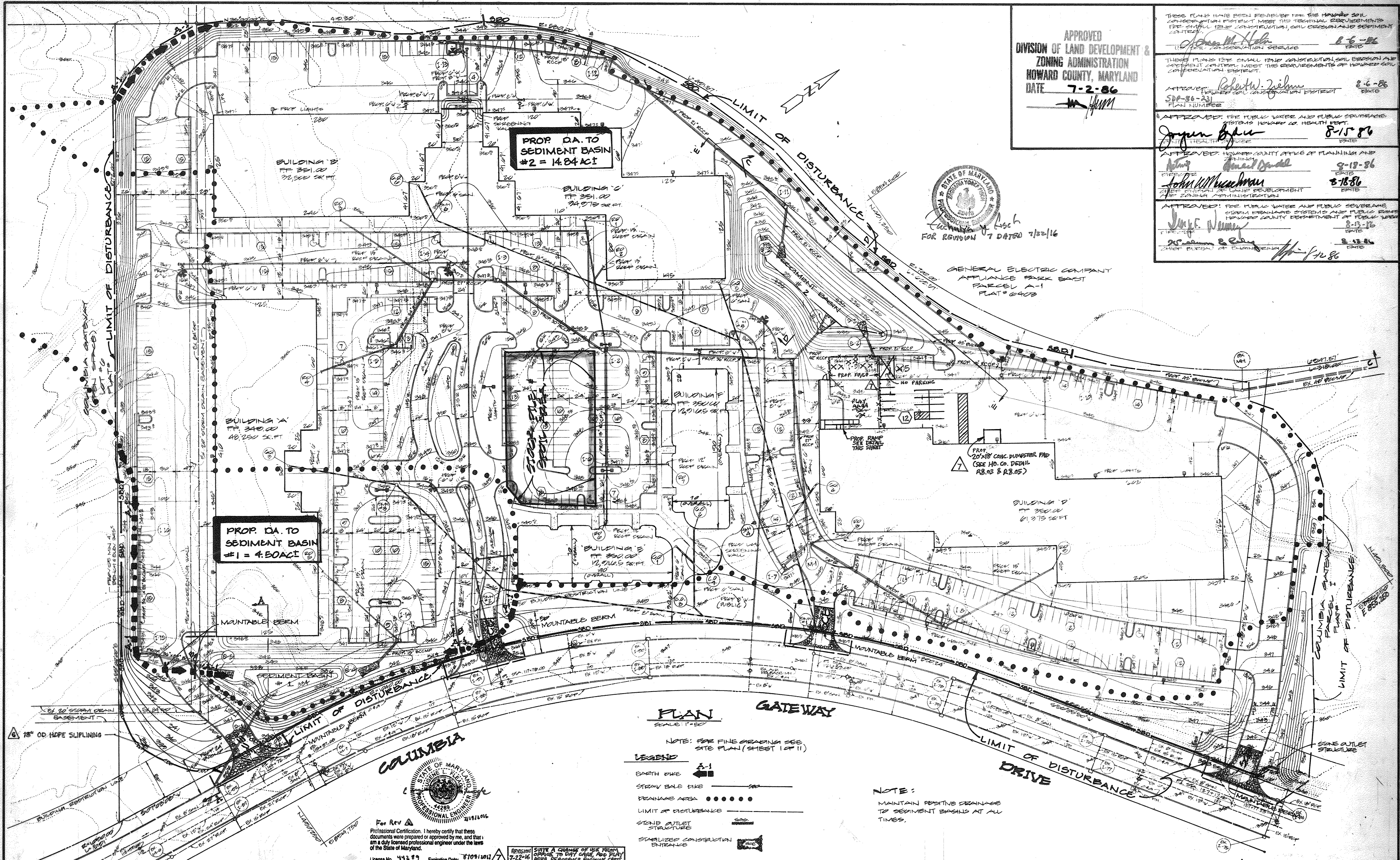
HOWARD COUNTY, MARYLAND EROSION CONTROL PLAN

SCALE: AS SHOWN ON SHEET

PL. 883

HEET 7 OF 11

SPP # 86-231



APPROVED
 DIVISION OF LAND DEVELOPMENT &
 ZONING ADMINISTRATION
 HOWARD COUNTY, MARYLAND
 DATE 7-2-86

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT MEET THE TECHNICAL REQUIREMENTS FOR SMALL SCALE CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL.
 APPROVED: Robert W. Zehner 8-6-86
 SUPERVISOR OF SOIL CONSERVATION DISTRICT
 APPROVED: Joyce G. Nunn 8-15-86
 HEALTH OFFICER
 APPROVED: John W. Hirschman 8-18-86
 PLANNING AND ZONING
 APPROVED: John W. Hirschman 8-18-86
 PLANNING AND ZONING
 APPROVED: John W. Hirschman 8-18-86
 PLANNING AND ZONING
 APPROVED: John W. Hirschman 8-18-86
 PLANNING AND ZONING

FOR REVISION 7 DATED 7/22/16



GENERAL ELECTRIC COMPANY
 APPLIANCE PARK EAST
 PARCEL A-1
 PLAT # 6403

PROP. QA. TO
 SEDIMENT BASIN
 #1 = 4.50 ACI

PROP. QA. TO
 SEDIMENT BASIN
 #2 = 14.84 ACI

PLAN GATEWAY
 SCALE: 1/8\"/>

- NOTE: FOR FINE GRADINGS SEE SITE PLAN (SHEET 1 OF 11)
- LEGEND
- EARTH DIKE
 - STRAY BALL DIKE
 - SEWAGE AREA
 - LIMIT OF DISTURBANCE
 - STONE OUTLET STRUCTURE
 - STABILIZED CONSTRUCTION ENTRANCE

NOTE:
 MAINTAIN POSITIVE DRAINAGE TO SEDIMENT BASINS AT ALL TIMES.

For Rev. Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.
 License No. 41289, Expiration Date: 7/09/2011
 REVISION: 7-22-16 SUITE A CHANGE OF USE FROM OFFICE TO DAY CARE, AND PLAY AREA, REARRANGE PARKING SPOTS.

GW
 GEORGE WILLIAM STEPHENS, JR. AND ASSOCIATES, INC.
 CIVIL ENGINEERS & LAND SURVEYORS
 303 ALLEGHENY AVENUE
 TOWSON, MARYLAND 21204
 (301) 825-8120

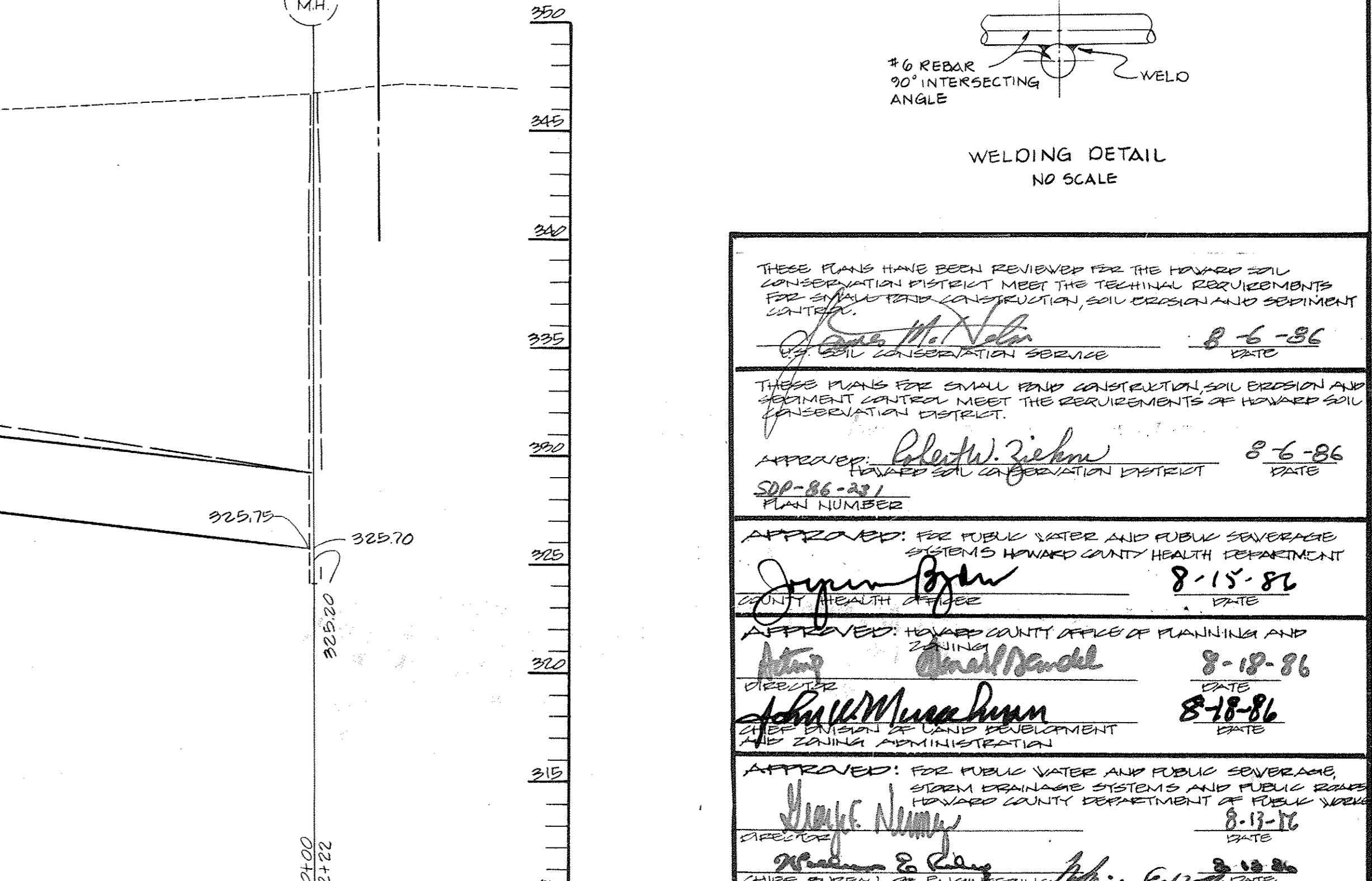
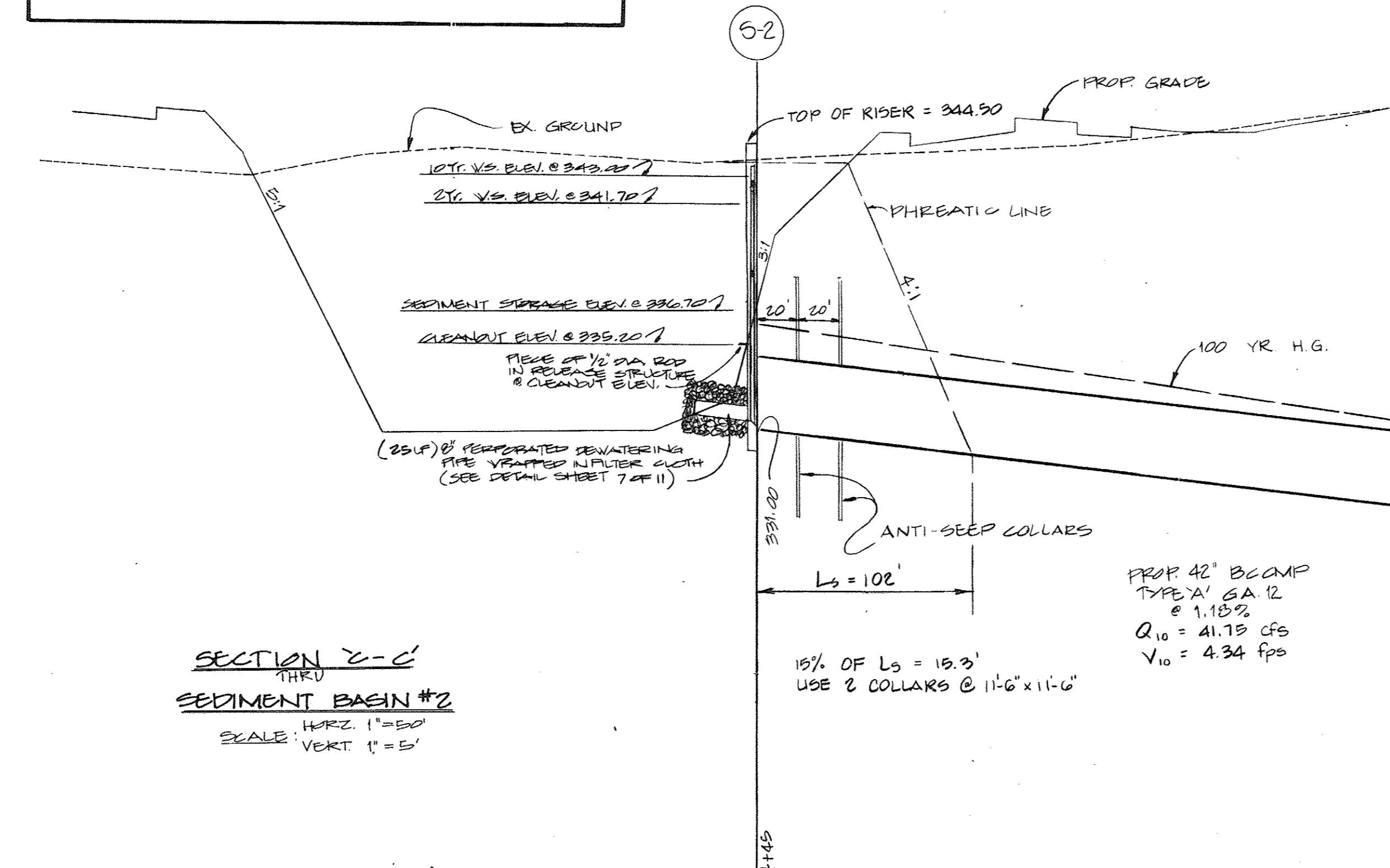
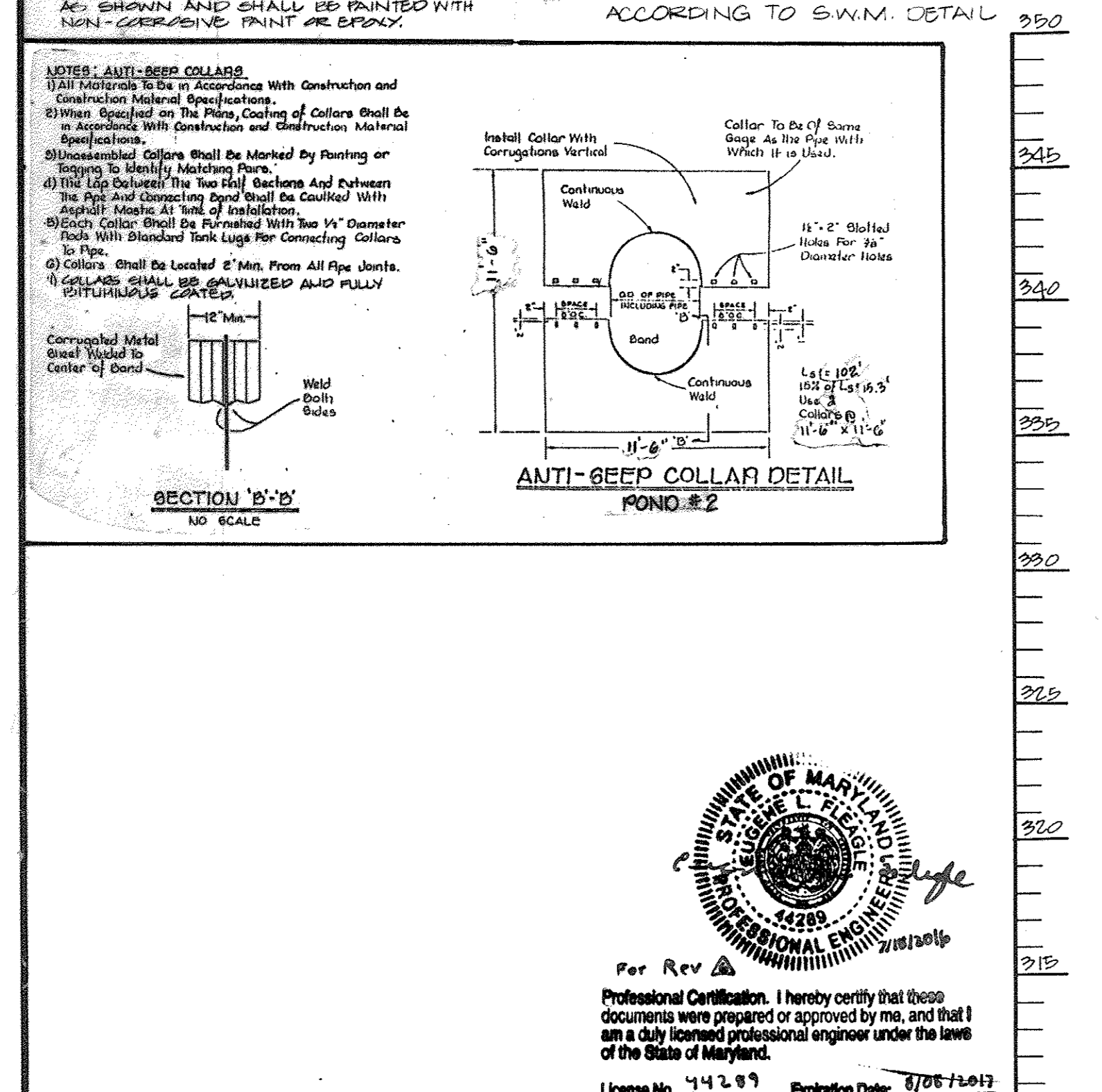
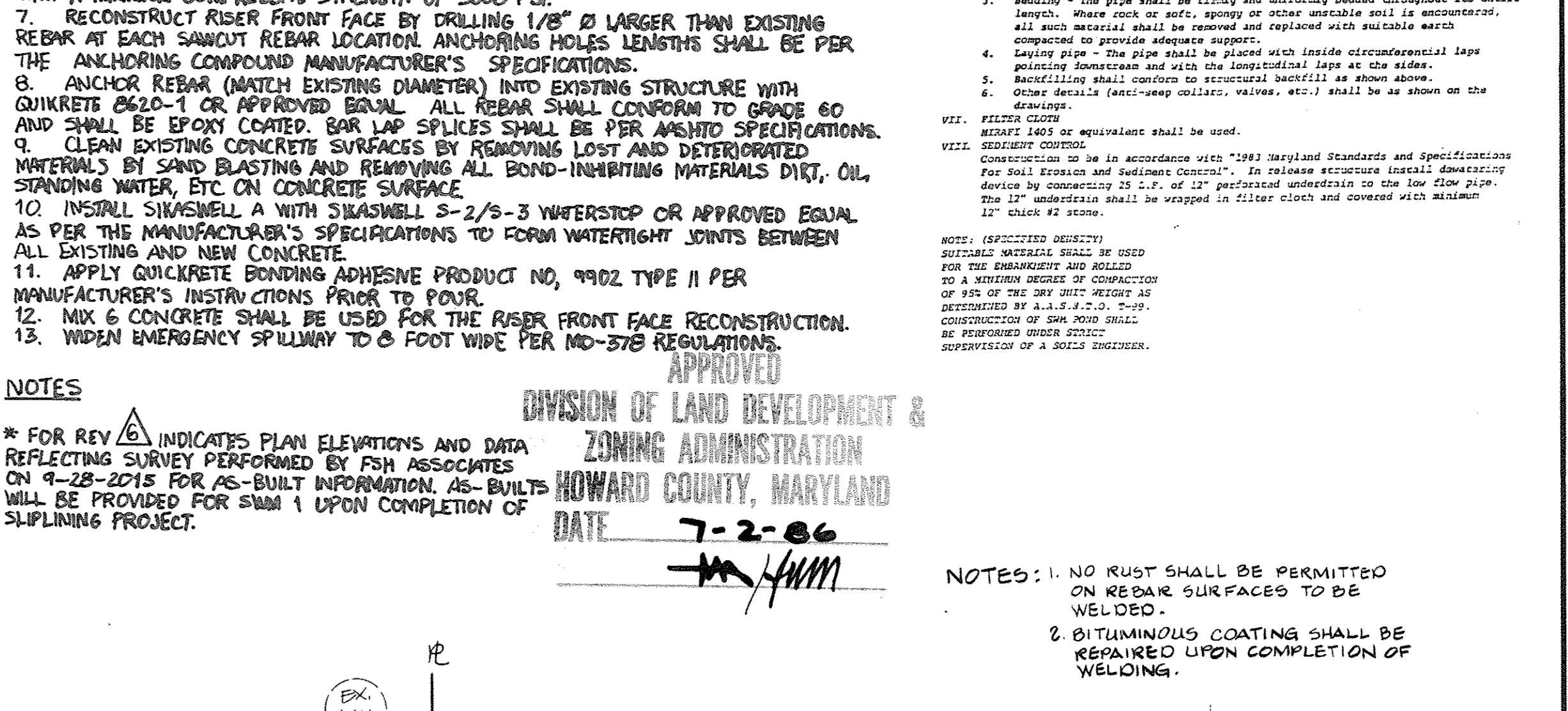
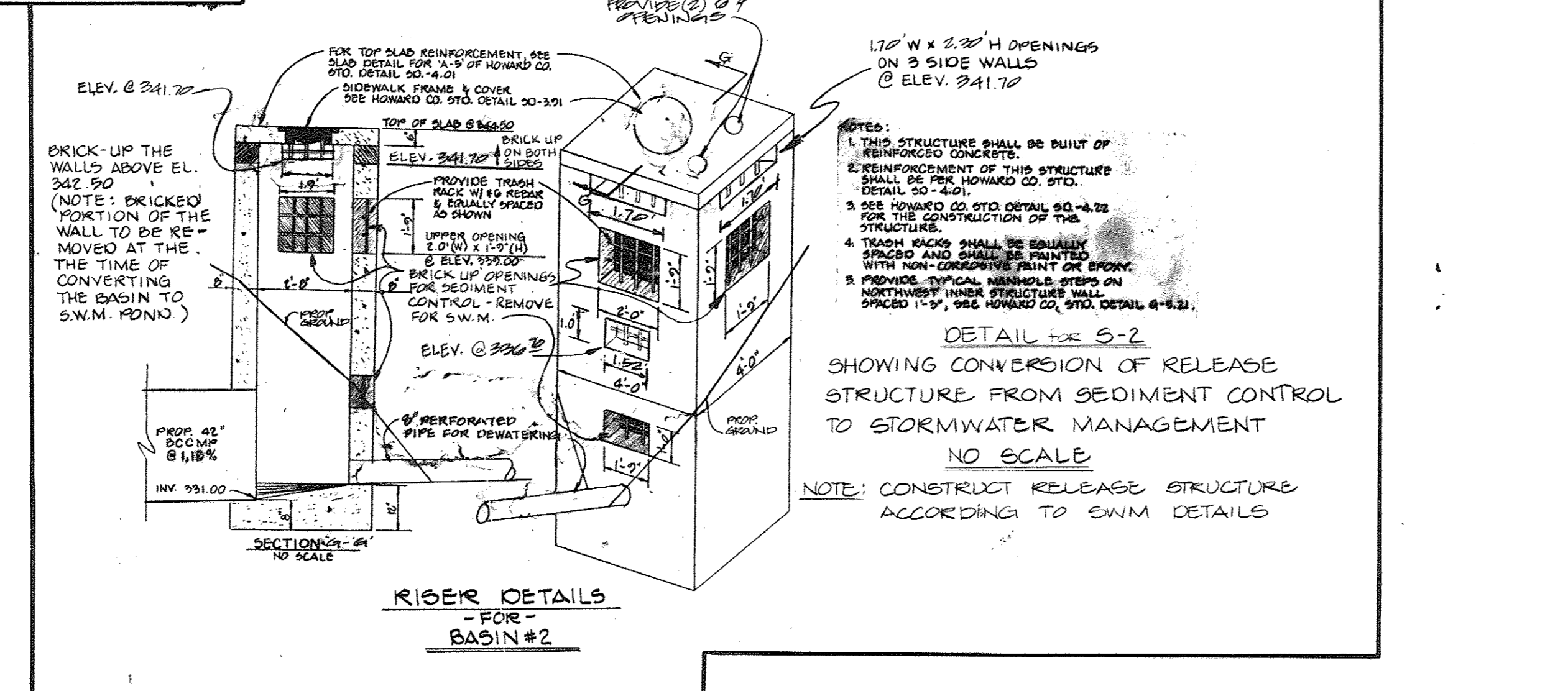
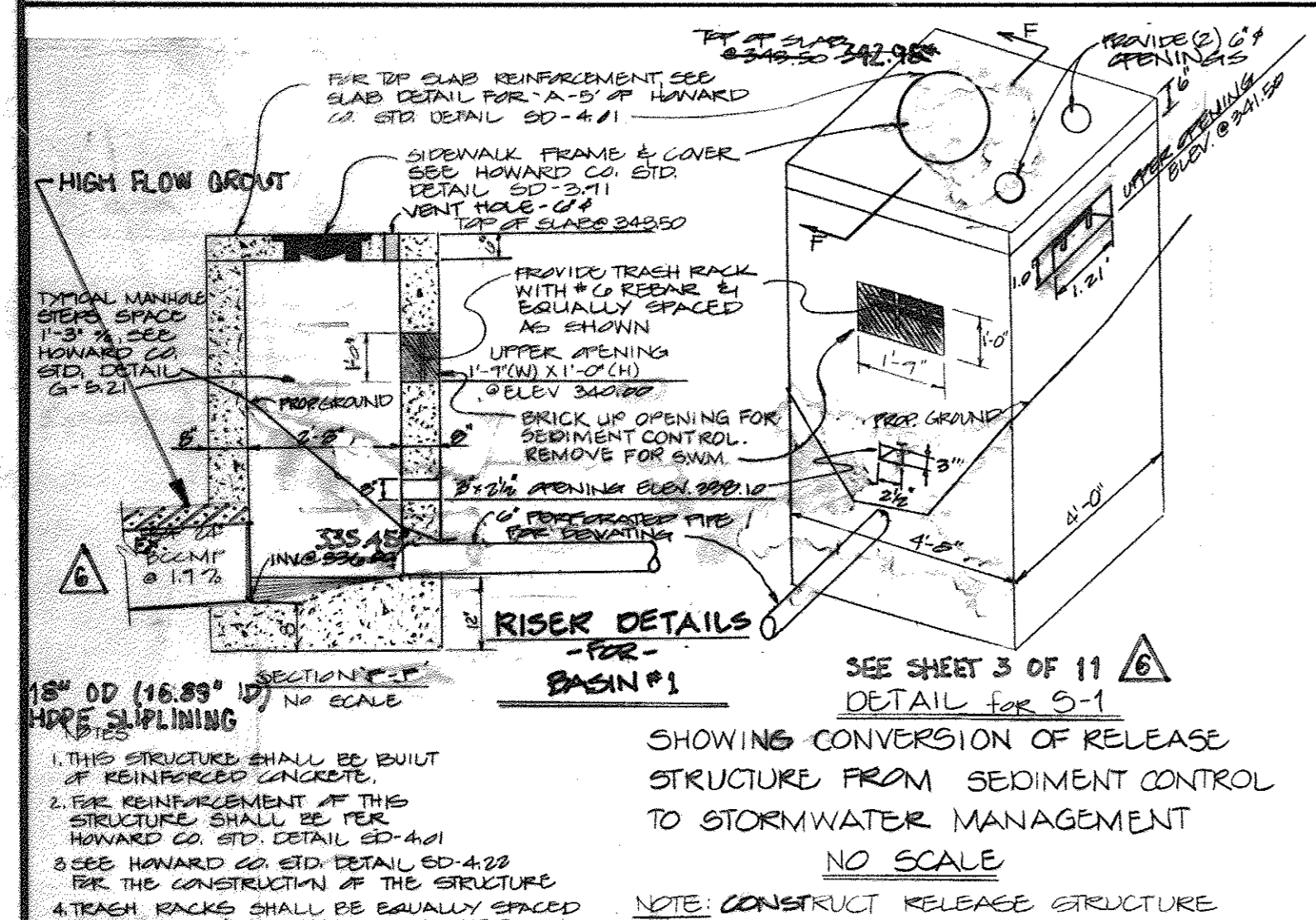
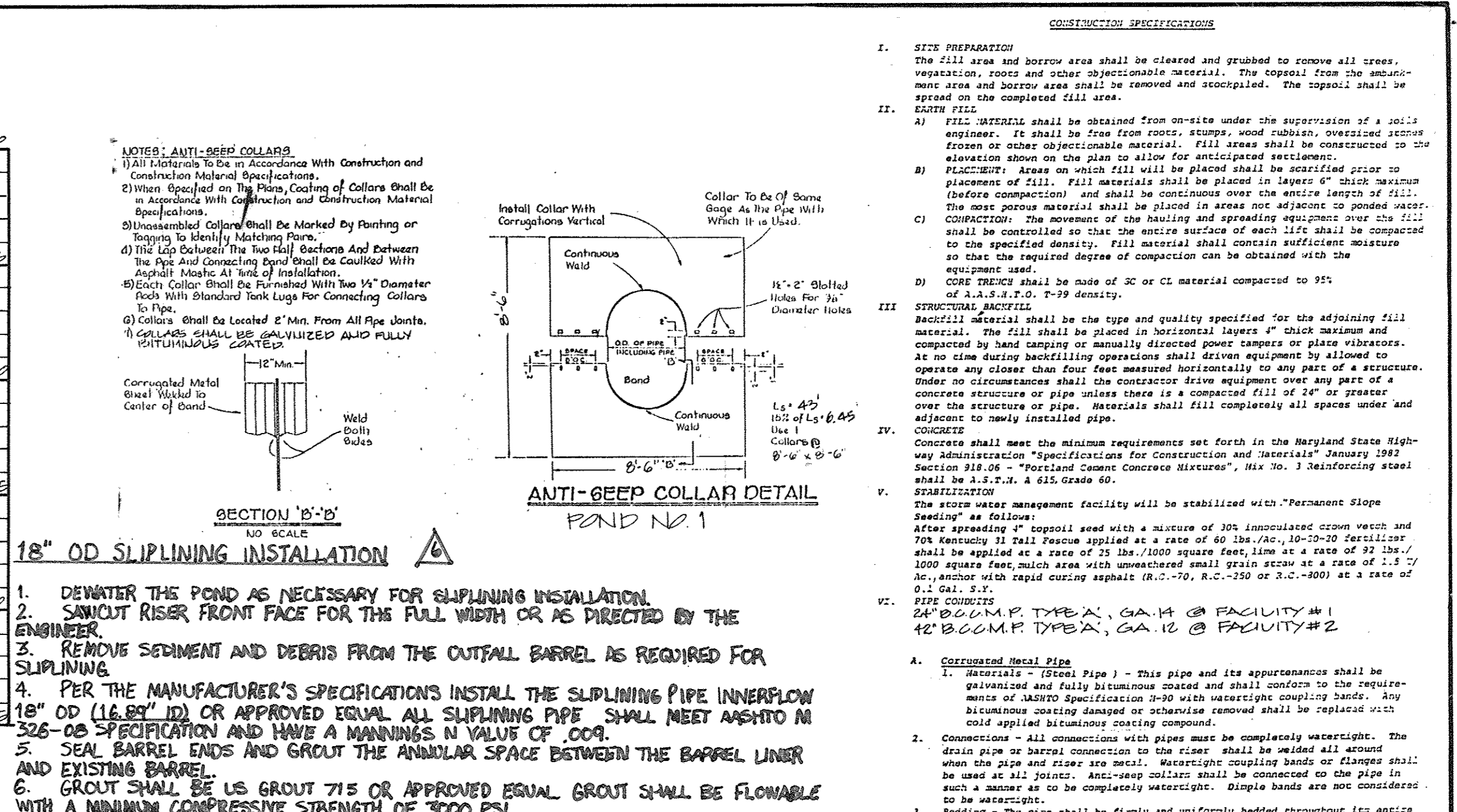
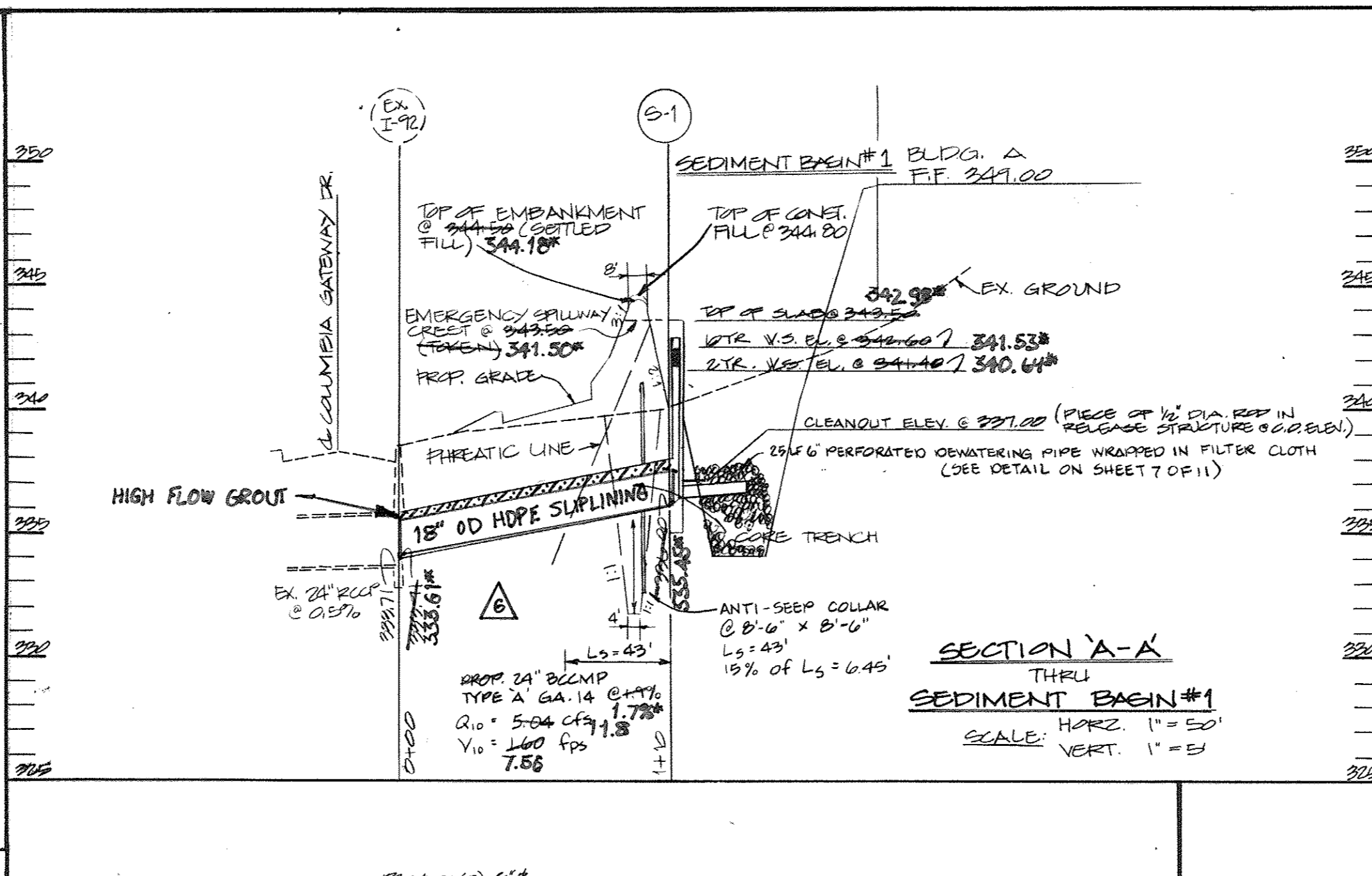
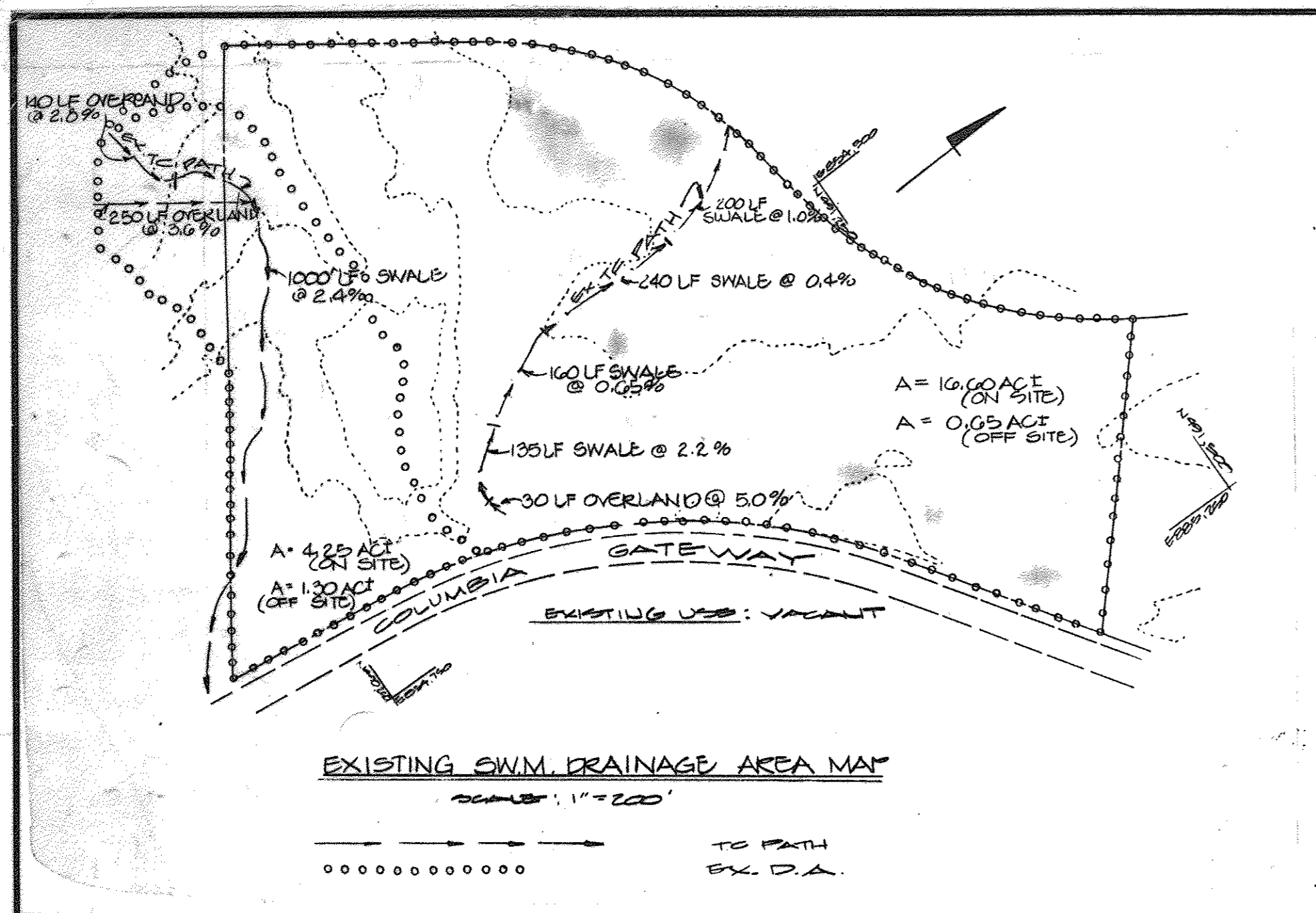
ENGINEER'S CERTIFICATE
 I CERTIFY THAT THIS PLAN FOR ROAD CONSTRUCTION, EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS. THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE SITE CONDITIONS. THE PLAN WAS PREPARED 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 A RED-LINED "AS-BUILT" OF THE PLAN WITHIN 30 DAYS OF COMPLETION.
George W. Stephens, Jr. 8930 4/16/86
 LICENSE NO. 41289

OWNER / DEVELOPER
 THE HOWARD RESEARCH & DEVELOPMENT CORP.
 10725 LITTLE PATUXENT PARKWAY
 COLUMBIA, MARYLAND 21044
 (301) 202-0030
 CONTROLLED PURCHASER
 MGR. XXXVIII PARTNERSHIP
 96 MARLBOROUGH CORPORATION
 10210 OLD COLUMBIA RD
 COLUMBIA, MARYLAND 21046 (301) 995-1670

DEVELOPER'S CERTIFICATE
 I CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THESE PLANS AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPT. OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERSONS ON-SITE INSPECTED BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS AS HAS BEEN PROVIDED LEGISLATION PERTAINING FROM THIS PLAN WILL NOT BE MADE UNLESS AUTHORIZED BY THE HOWARD SOIL CONSERVATION DISTRICT. I WILL PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH A RED-LINED "AS-BUILT" OF THE PLAN WITHIN 30 DAYS OF COMPLETION.
George W. Stephens, Jr. 8930 4/16/86

PREPARED TO:
 DRAWN: EL/100
 CHECKED TO:
 REVISIONS:
 07-18-16 SWM 1
 07-28-2015 SURVEY

EROSION & SEDIMENT CONTROL PLAN
 PROPOSED OFFICE FOR RESEARCH & DEVELOPMENT PARK
 COLUMBIA GATEWAY
 PARCEL A-1
 TAX MAP # 42-343
 HOWARD COUNTY, MARYLAND
 SCALE: AS SHOWN
 PLAN SHEET
 EROSION DISTRICT # 10
 SHEET 8 OF 11
 RI. 25453
 ADP. 3 86-231



GEORGE WILLIAM STEPHENS, JR. AND ASSOCIATES, INC.
 CIVIL ENGINEERS & LAND SURVEYORS
 303 ALLEGHENY AVENUE
 TOWSON, MARYLAND 21204
 (301) 825-8120

Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.
 License No. 44289, Expiration Date: 8/08-11/01

ENGINEER'S CERTIFICATE:
 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 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 A "RED-LINED" AS-BUILT OF THE POND WITHIN 30 DAYS OF COMPLETION.
 [Signature] 8/30 11/16/86
 ENGINEER/TAPASWATI CHANDRASEKAR

OWNER / DEVELOPER
THE HOWARD RESEARCH & DEVELOPMENT CORP.
 10275 LITTLE PATUKENT PARKWAY
 COLUMBIA, MARYLAND, 21044
 (301) 202-0033

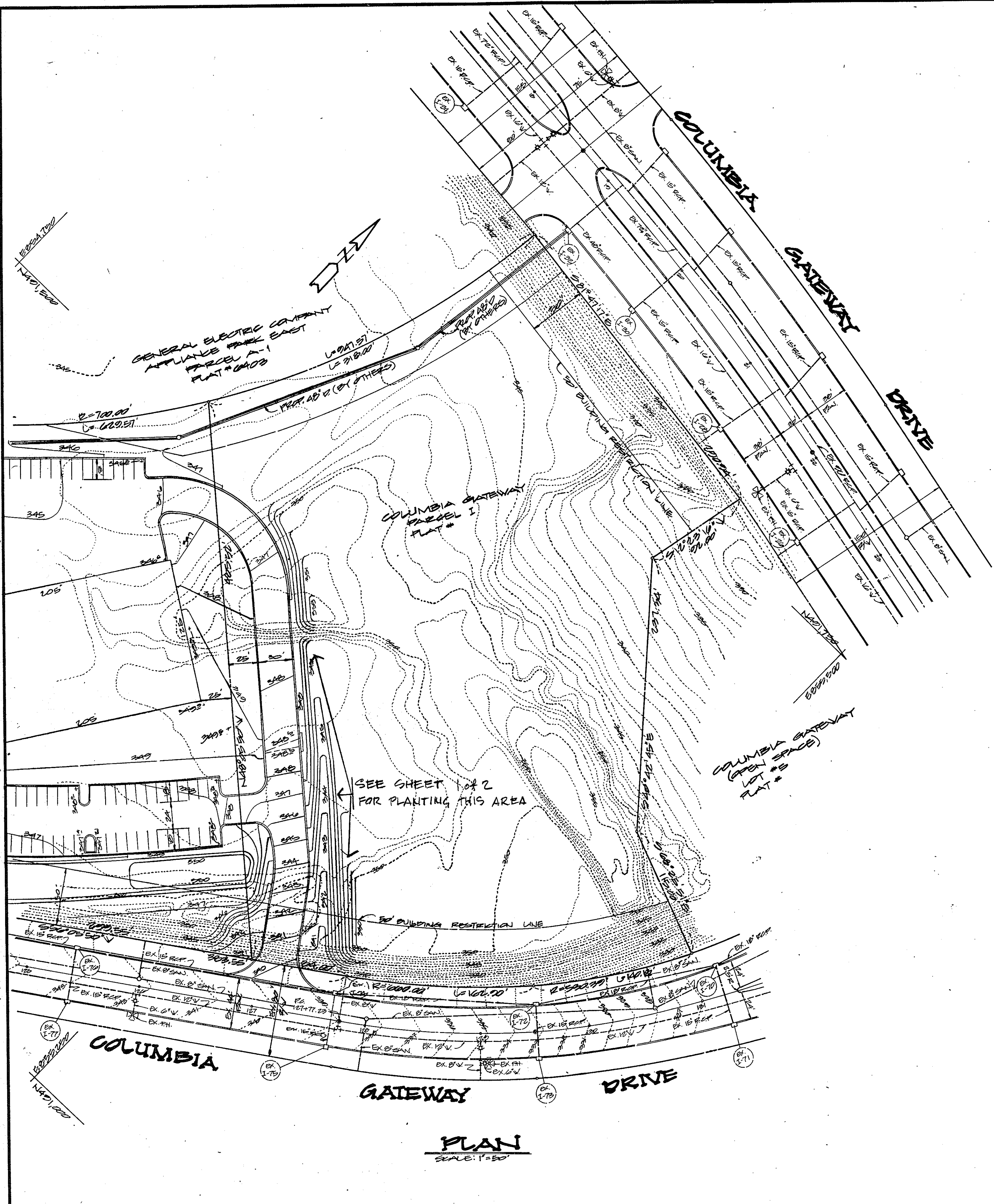
CONTRACT PURCHASER
MADE JOINTLY PARTNERSHIP
 90 MARSHALL COOPERATION
 10710 OLD COLUMBIA RD.
 COLUMBIA, MARYLAND, 21046 (301) 202-1670

DEVELOPER'S CERTIFICATE:
 I CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THESE PLANS AND THAT ALL EROSION AND SEDIMENT CONTROL MEASURES WILL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD. I HAVE BEEN ADVISED BY A DEPT. OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CARE OF EROSION AND SEDIMENT CONTROL BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS AS DEEMED NECESSARY. PORTIONALS FROM THIS PLAN WILL NOT BE MADE UNLESS AUTHORIZED BY THE HOWARD SOIL CONSERVATION DISTRICT. I WILL PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH A RED-LINED AS-BUILT OF THE POND WITHIN 30 DAYS OF COMPLETION.
 [Signature] 8/18/86
 DEVELOPER: ASST. V.P.

DESIGNED BY: DB/K.B.
 DRAWN BY: DL/K.B.
 CHECKED BY: T.C.
 REVISIONS
 07-18-16 SWM 1
 18 OUTFALL BARREL SLIPLINING

SEDIMENT & EROSION CONTROL PROFILES & DETAILS

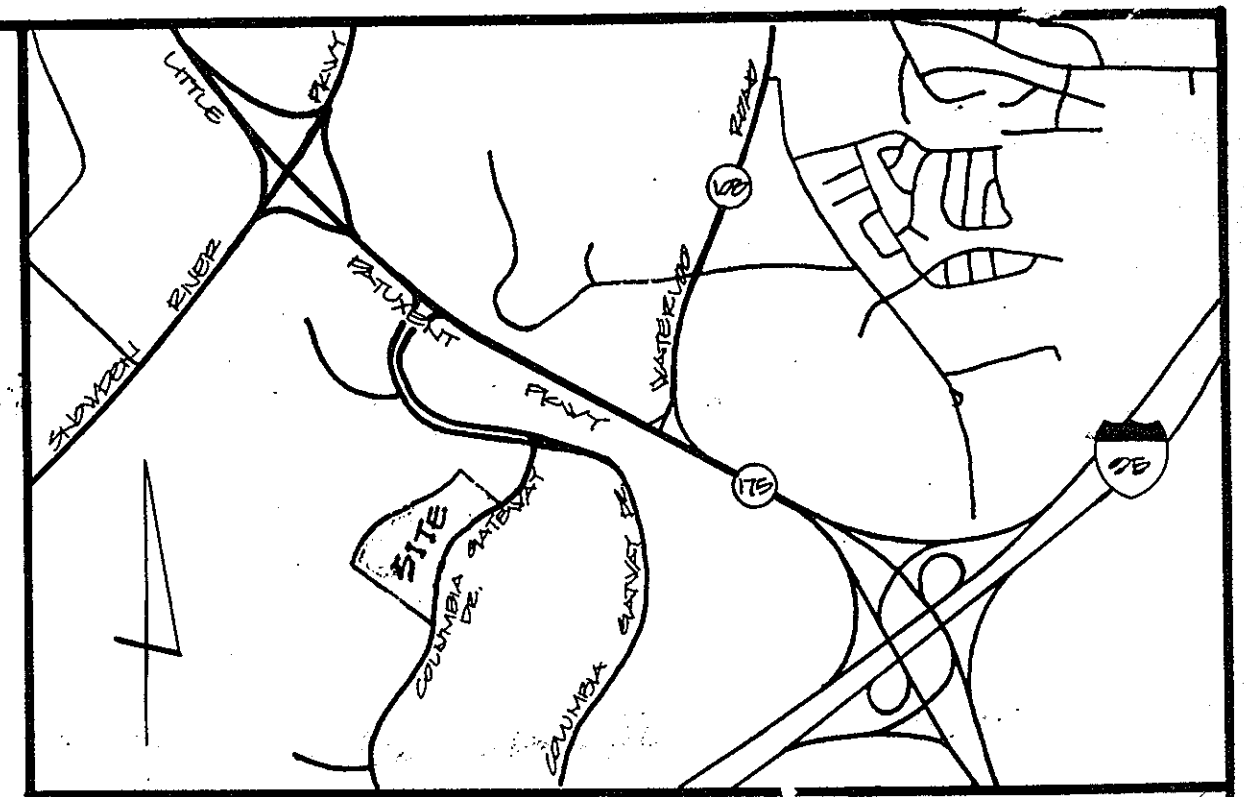
APPROVED OFFICE FOR RESEARCH & DEVELOPMENT PARK
 COLUMBIA GREENBELT
 [Signature] 8/18/86
 HONORARY COUNTY ENGINEER
 SCALE: AS SHOWN
 PLAN SHEET 0 OF 11
 SECTION LIST #0
 SHEET 0 OF 11



PLANT SCHEDULE

KEY	PLANT NAME	SIZE	QUANT	REMARKS
⊕	ACER RUBRUM 'RED SUNSET' RED SUNSET MAPLE	2 1/2 - 3' CAL 12-14' HT	59	B&B HEAVY HEADS
⊕	FRAXINUS P. LANCEOLATA SEEDLESS GREEN ASH	"	37	
⊕	ZELKOVA SERRATA 'VILLAGE GREEN' VILLAGE GREEN ZELKOVA #2337	"	74	
⊕	QLEDITSIA T. INERMIS 'SHADEMASTER' SHADEMASTER LACOSTE	"	38	
⊕	QUERCUS PALUSTRIS PIN OAK	"	38	
⊕	SALIX BABILONICA BABYLON WEeping WILLOW	"	11	
⊕	BORNIA KOUZA KOUZA DOGWOOD	2 - 2 1/2' CAL 8-10' HT.	38	
⊕	CRATAEGUS OXYACANTHA 'SUPERBA' CRIMSON CLOUD HAWTHORN	"	44	
⊕	PRUNUS YEDOENSIS YOSHINO CHERRY	"	21	
⊕	PRUNUS SERRULATA 'KWANZAN' KWANZAN CHERRY	"	43	
⊕	PYRUS CAL. WHITEHOUSE WHITEHOUSE PEAR	"	16	
⊕	PINUS NIGRA ALSTRIAN PINE	6-8' HT	89	
⊕	PINUS STROBUS WHITE PINE	"	153	
⊕	TSUGA CANADENSIS CANADIAN HEMLOCK	"	32	

- NOTES: CONTRACTOR SHALL VERIFY UNDERGROUND UTILITIES BEFORE DIGGING
- ALL PLANTING TO BE IN ACCORDANCE WITH HRD COLUMBIA PLANTING SPECIFICATIONS.
 - SUBSTITUTIONS MAY BE PERMITTED DEPENDING ON AVAILABILITY AND ON APPROVAL OF LANDSCAPE ARCHITECT.



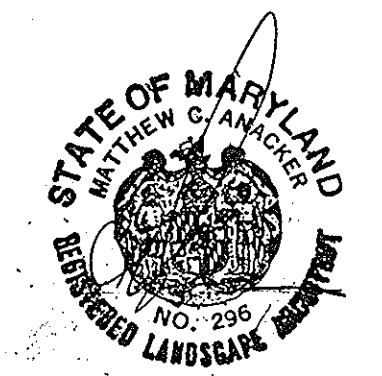
VICINITY MAP
SCALE: 1"=1000'

SEE SHEET 1 OF 2 FOR PLANTING THIS AREA

COLUMBIA GATEWAY (OPEN SPACE) LOT # 5 PLANT # 5

PLAN
SCALE: 1"=50'

APPROVAL
DIVISION OF LAND DEVELOPMENT
ZONING ADMINISTRATION
HOWARD COUNTY, MARYLAND
DATE: 7-2-86
[Signature]



7.22.86

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT MEET THE TECHNICAL REQUIREMENTS FOR SMALL SCALE CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL.

APPROVED: [Signature] DATE: 8-6-86

THESE PLANS FOR SMALL SCALE CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL MEET THE REQUIREMENTS OF HOWARD SOIL CONSERVATION DISTRICT.

APPROVED: [Signature] DATE: 8-6-86

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS HOWARD COUNTY HEALTH DEPARTMENT. [Signature] DATE: 8-11-86

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING. [Signature] DATE: 8-18-86

APPROVED: [Signature] DATE: 8-18-86

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS. [Signature] DATE: 8-13-86

APPROVED: [Signature] DATE: 8-13-86

ADDRESS CHART

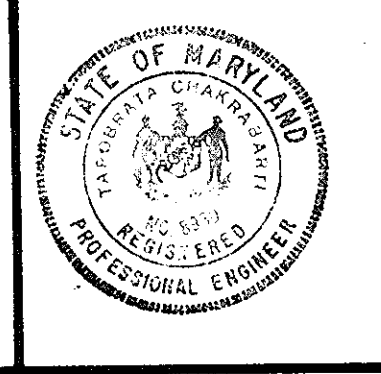
BUILDING #	STREET ADDRESS
A	
B	
C	
D	
E	
F	

SUBDIVISION NAME: [Blank]

PLANTER LIP: [Blank] PLANT # [Blank] DATE [Blank] [Blank]

WATER SIZES: [Blank] SEWER SIZES [Blank]

GEORGE WILLIAM STEPHENS, JR. AND ASSOCIATES, INC.
CIVIL ENGINEERS & LAND SURVEYORS
303 ALLEGHENY AVENUE
TOWSON, MARYLAND 21284
(301) 825-8120



ENGINEER'S CERTIFICATE:
I CERTIFY THAT THIS PLAN FOR ROAD 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 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 A RED-LINED "AS-BUILT" OF THE ROAD WITHIN 30 DAYS OF COMPLETION.

ENGINEER: TAPASWATI CHAKRABARTI REG. NO. [Blank] DATE [Blank]

OWNER / DEVELOPER
THE HOWARD RESEARCH & DEVELOPMENT CORP.
10278 LITTLE PATUXENT PARKWAY
COLUMBIA, MARYLAND 21044
(301) 202-0000

CONTRACT PURCHASER
MAR. XXXVIII PARTNERSHIP
90 MANEKLIN CORPORATION
10270 OLD COLUMBIA RD.
COLUMBIA, MARYLAND 21046 (301) 205-1670

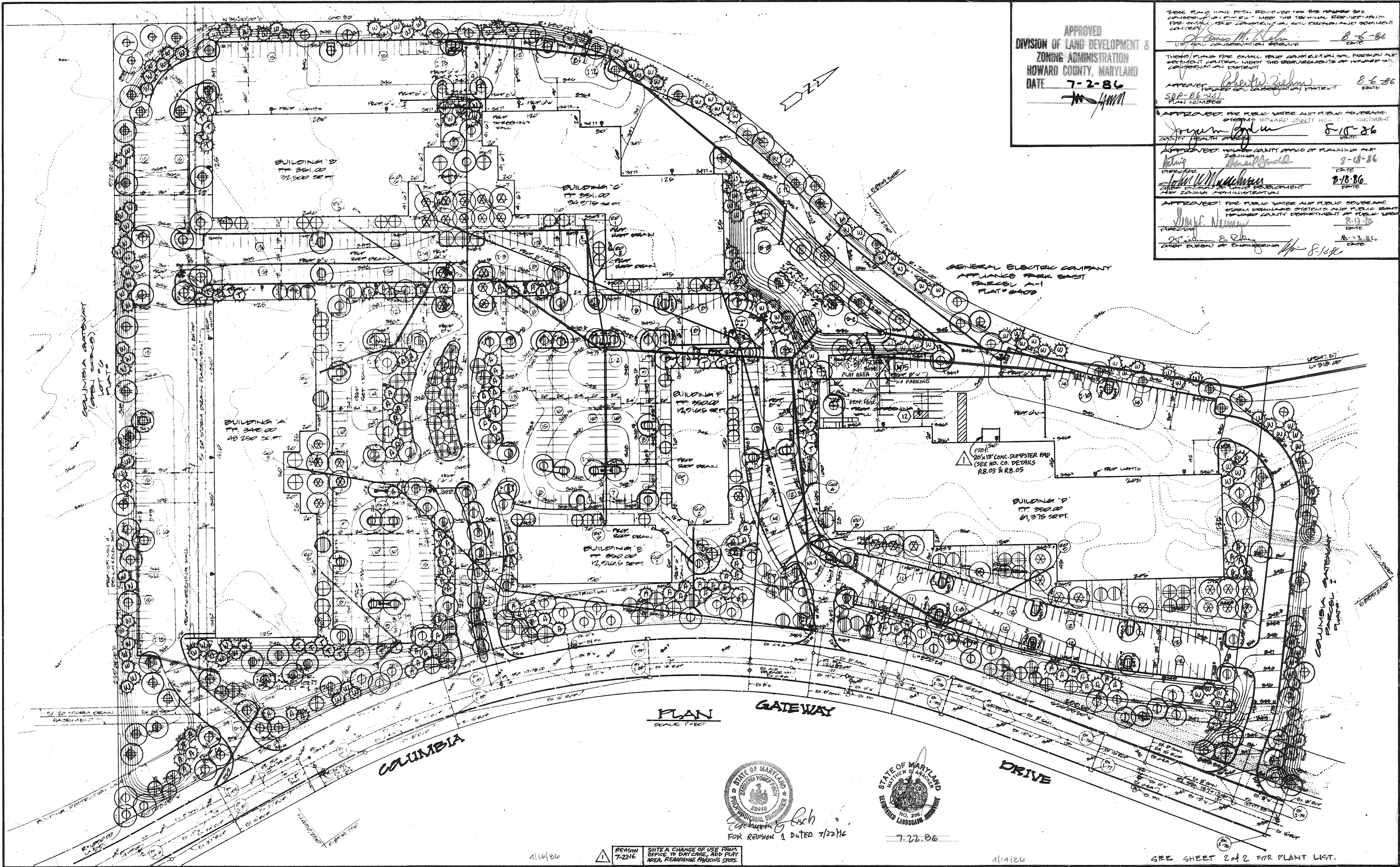
DEVELOPER'S CERTIFICATE:
I CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE MADE ACCORDING TO THESE PLANS AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPT. OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF EROSION AND SEDIMENT CONTROL. FURTHERMORE, THIS PROJECT IS ALSO AUTHORIZED BY THE HOWARD SOIL CONSERVATION DISTRICT AS THEIR AUTHORIZED AGENTS AS ARE PRESENT NECESSARY DEVIATIONS FROM THIS PLAN WILL NOT BE MADE UNLESS AUTHORIZED BY THE HOWARD SOIL CONSERVATION DISTRICT. I WILL PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH A RED-LINED "AS-BUILT" OF THE ROAD WITHIN 30 DAYS OF COMPLETION.

DEVELOPER: [Signature] DATE: 4-14-86

DESIGNED: [Blank]
DRAWN: [Blank]
REVISIONS: [Blank]

LANDSCAPE PLANTING PLAN
PROPOSED OFFICE FOR RESEARCH & DEVELOPMENT
COLUMBIA GATEWAY
PARCEL J
TOWN MAP # 42-43
HOWARD COUNTY, MARYLAND ELECTION DISTRICT # 6
SCALE: AS SHOWN APRIL 23, 1986
SHEET 10 OF 11

SDP # 80-231



APPROVED
 DIVISION OF LAND DEVELOPMENT &
 ZONING ADMINISTRATION
 HOWARD COUNTY, MARYLAND
 DATE **7-2-86**

THESE PLANS HAVE BEEN REVIEWED FOR THE HONORED SOIL CONSERVATION DISTRICT MEET THE TECHNICAL REQUIREMENTS FOR SMALL SCALE CONSTRUCTION AND COMPLY WITH DISTRICT REGULATIONS.

APPROVED: *Robert W. Ziehm* 8-6-86
 HONORED SOIL CONSERVATION DISTRICT

APPROVED: *James G. ...* 8-15-86
 COUNTY HEALTH OFFICE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING
David ... 9-18-86

APPROVED: *...* 2-18-86
 THE DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS HOWARD COUNTY HEALTH DEPARTMENT
... 8-19-86

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
... 8-13-86

PLAN GATEWAY
 SCALE 1"=20'

STATE OF MARYLAND
 DEPARTMENT OF ENVIRONMENTAL CONTROL
 2016
 REGISTERED PROFESSIONAL ENGINEER
 NO. 2961
 REGISTERED LANDSCAPE ARCHITECT
 7-22-86

OWNER / DEVELOPER
 THE HOWARD RESEARCH & DEVELOPMENT CORP.
 10275 LITTLE PATUXENT PARKWAY
 COLUMBIA, MARYLAND, 21044
 (301) 202-0033
 CONTRACT PURCHASER
 MRS. XXXVIII PARTNERSHIP
 c/o MANEKIN CORPORATION
 10270 OLD COLUMBIA RD.
 COLUMBIA, MARYLAND, 21046 (301) 205-1670

DESIGNER'S CERTIFICATE
 I CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THESE PLANS AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPT. OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CARETAKING OF HONORED SOILS. I AM NOT PROVIDING THE HONORED SOIL CONSERVATION DISTRICT AS THEIR AUTHORIZED AGENTS AS NEB. PERMITS NECESSARILY PENALTIES FROM THIS PLAN WILL NOT BE MADE UNLESS AUTHORIZED BY THE HONORED SOIL CONSERVATION DISTRICT. I WILL PROVIDE THE HONORED SOIL CONSERVATION DISTRICT WITH A RED-LINED PLAN WITHIN 30 DAYS OF COMPLETION.

LANDSCAPE PLANTING PLAN
 PROPOSED OFFICE FOR RESEARCH & DEVELOPMENT
 COLUMBIA GATEWAY
 PARCEL 3
 TOWN MAP # 42-445
 HOWARD COUNTY, MARYLAND ELECTION DISTRICT # 6
 SCALE AS SHOWN AREA 29,100 SQ. FT.
 SHEET 11 OF 11

GEORGE WILLIAM STEPHENS, JR.
 AND ASSOCIATES, INC.
 CIVIL ENGINEERS & LAND SURVEYORS
 303 ALLEGHENY AVENUE
 TOWSON, MARYLAND 21204
 (301) 825-8120

DESIGNER'S CERTIFICATE
 I CERTIFY THAT THIS PLAN FOR PAID CONSTRUCTION, DESIGN AND CONSTRUCTION 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 SITE CONDITIONS. THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HONORED SOIL CONSERVATION DISTRICT. I HAVE IDENTIFIED THE DEVELOPER THAT HE MUST PROVIDE THE HONORED SOIL CONSERVATION DISTRICT WITH A RED-LINED "AS-BUILT" OF THE PLAN WITHIN 30 DAYS OF COMPLETION.



411486

411486

SEE SHEET 2 of 2 FOR PLANT LIST.