

SYMBOLS

- Existing Contour
- Proposed Contour
- Limit of Clearing & Grading
- Proposed Paving
- Concrete Sidewalk
- Bituminous Walk
- Concrete Curbing
- Building Restriction Line (BRL)
- Street Light

LOT NO.	STREET ADDRESS
1	LLanfair Drive
2	
3	
4	Wooded Run Drive
5	
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EXHIBITION NAME: OWEN BROWN WOODS	SECT./AREA: ONE	LOT/PARCEL: 113
PLAT OF LF BLOCK: 22	TAX MAP: R-20	ELEV. DIST.: 612
WATER CODE:	SEWER CODE:	VENUS TR.:

Owner: UERS, INC. ROSLYNN GOLDBERG 8609 KELLER AVE STEVENSON, MD 21153 301-486-6390	NO. 1	REVISIONS: REGRADE OF STORM WATER MANGMNT. @ STR.#3	DATE: 2-6-92
	1	STORM WATER MANAGEMENT STRUCTURE #3	DATE: 10-13-92



DEVELOPMENT CONSULTANTS GROUP, INC.
17904 GEORGIA AVENUE
SUITE 102 OLNEY, MD 20832
301-924-4570

PLAN Scale 1"=50'

ENGINEER'S CERTIFICATE

I CERTIFY THAT THE FACILITIES WERE CONSTRUCTED IN ACCORDANCE WITH THESE PLANS.



SEDGH M. ASADPOUR, LTD. DATE 2-6-92
3017 CORPORATE COURT,
ELICOTT CITY, MD 21043
(410) 750-9003

GENERAL NOTES

1. Zoning = R-20.
2. Total area = Section One = 9.0283 ac.
3. Area of Lots = 24 lots = 7.9874 ac.
4. Area of roads = 1.0405 ac.
5. Area of Open Space:
 - a) No 100 year Flood plain.
 - b) Net open space provided = 15,450 sq ft or 0.35 ac.
 - c) Open space will be met in overall subdivision.
6. Property on tax map 36, Parcel 113.
7. Property on soils map #24. Predominate soils - B1B2, B1C2, G1A, G1B2.
8. Max. grade slope 2:1.
9. Min. grade slope 2%.
10. See Sheet 2 of 3 for sediment control.
11. Total disturbed area = 76,000 sq ft or 1.74 ac.
12. Grading on this site is balanced.
13. Plans subject to VP 84-150 & VP 85-50.

FOR APPROVED REVISIONS DATED 02/11/92 ONLY

Sayed A. Sabout 3/27/91
DATE
PE # 16493
SHANABERGER & LANE
5716 TOWN & COUNTRY BLVD.
SUITE 104 LOT 109
ELICOTT CITY, MD 21043
401-9968



BENCHMARK

- BM A = Nail in utility pole #48720
Elevation 308.50
- BM B = + cut in rim of sewer MH
Elevation 300.53

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
DATE: 2/6/92
CHIEF, BUREAU OF ENGINEERING

APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING
DATE: 3-11-85
CHIEF, PLANNING & ZONING ADMINISTRATION

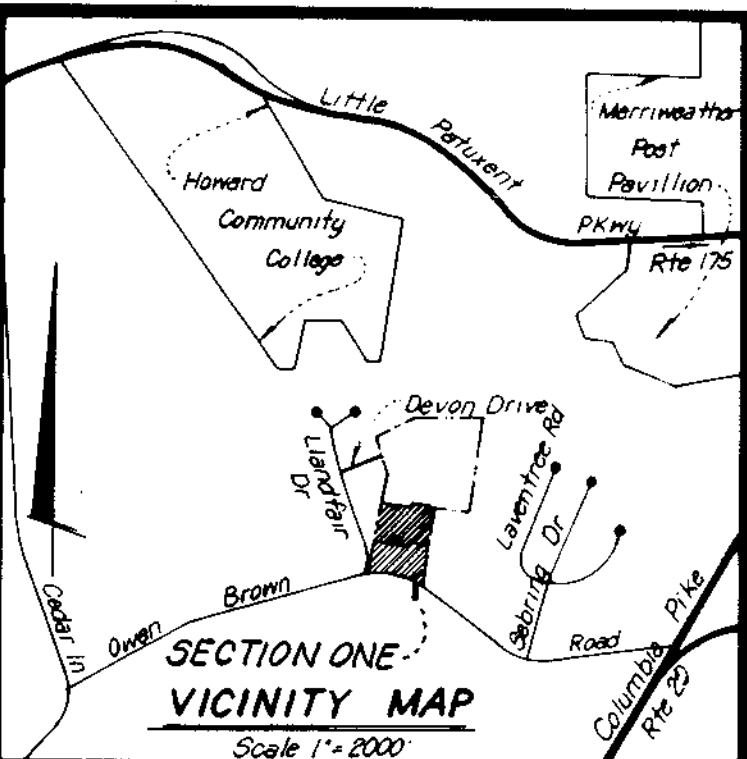
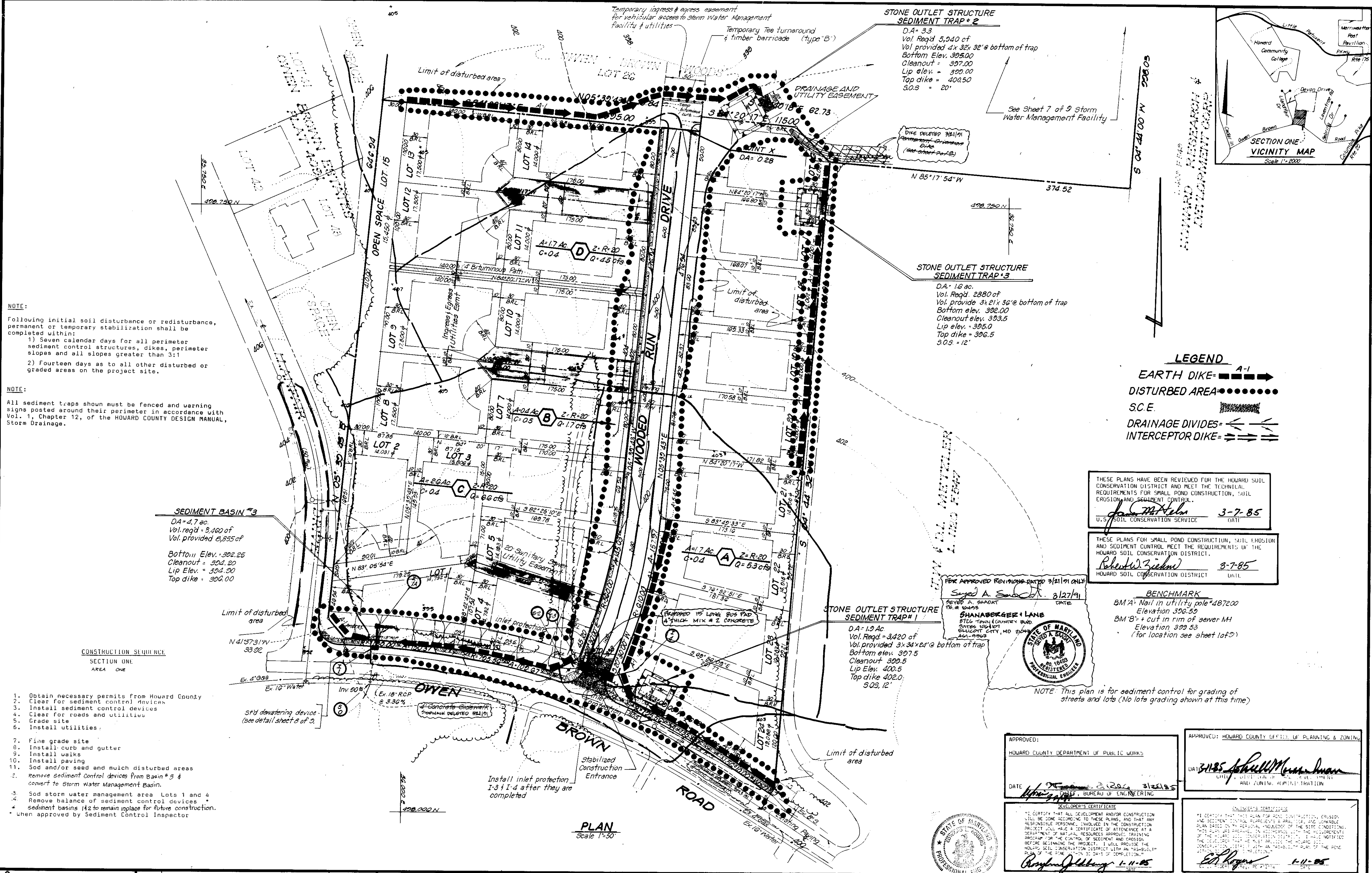
ENGINEER'S CERTIFICATE
I CERTIFY THAT THIS PLAN FOR POND CONSTRUCTION, EROSION AND SEDIMENT CONTROL, REPRESENTS A PRACTICAL AND FEASIBLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS. THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE NATURE SOIL CONSERVATION DISTRICT. I HAVE NOTIFIED THE DISTRICT THAT I MUST PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN "AS-BUILT" PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION.

DEVELOPER'S CERTIFICATE
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 FROM THE 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.



SITE DEVELOPMENT PLAN
Section One, Area One
OWEN BROWN WOODS
5th ELECTION DISTRICT HOWARD COUNTY, MARYLAND
TAX MAP 36 PARCEL 113

DATE: 5-84-82	DATE: Dec 7, 1981	Sheet: 1 of 2
P. 84-33	DRAWN: MIKE	of 2
F. 85 07	CHECKED: B/L/L	PROJECT NO. 112-01
VP-84-150	SCALE: 1"=50'	
VP-85-50		



NOTE:
 Following initial soil disturbance or redistribution, permanent or temporary stabilization shall be completed within:
 1) Seven calendar days for all perimeter sediment control structures, dikes, perimeter slopes and all slopes greater than 3:1
 2) Fourteen days as to all other disturbed or graded areas on the project site.

NOTE:
 All sediment traps shown must be fenced and warning signs posted around their perimeter in accordance with Vol. 1, Chapter 12, of the HOWARD COUNTY DESIGN MANUAL, Storm Drainage.

STONE OUTLET STRUCTURE SEDIMENT TRAP #2
 D.A. = 3.3
 Vol. Req'd 5,940 cf
 Vol. provided 4x 32x 32' @ bottom of trap
 Bottom Elev. 395.00
 Cleanout = 397.00
 Lip elev. = 399.00
 Top dike = 400.50
 S.O.S. = 20'

STONE OUTLET STRUCTURE SEDIMENT TRAP #3
 D.A. = 1.6 ac.
 Vol. Req'd. 2880 cf
 Vol. provide 3x 21x 36' @ bottom of trap
 Bottom elev. 392.00
 Cleanout elev. 393.5
 Lip elev. = 395.0
 Top dike = 396.5
 S.O.S. = 12'

SEDIMENT BASIN #3
 D.A. = 4.7 ac.
 Vol. req'd = 3,460 cf
 Vol. provided 6,855 cf
 Bottom Elev. = 392.25
 Cleanout = 394.20
 Lip Elev. = 394.00
 Top dike = 396.00

STONE OUTLET STRUCTURE SEDIMENT TRAP #1
 D.A. = 1.9 ac
 Vol. Req'd = 3,420 cf
 Vol. provided 3x 34x 27' @ bottom of trap
 Bottom elev. 397.5
 Cleanout 399.5
 Lip Elev. 400.5
 Top dike 402.0
 S.O.S. 12'

LEGEND
 EARTH DIKE = ——— A-1 ———>
 DISTURBED AREA = ●●●●●●●●
 S.C.E. = [Symbol]
 DRAINAGE DIVIDES = <—> <—>
 INTERCEPTOR 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.
James M. Helm 3-7-85
 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.
Robert W. Ziehm 3-7-85
 HOWARD SOIL CONSERVATION DISTRICT UNIT

BENCHMARK
 BM 'A' Nail in utility pole #487200
 Elevation 396.59
 BM 'B' + cut in rim of sewer MH
 Elevation 399.53
 (for location see sheet 1 of 2)

FOR APPROVED REVISIONS DATED 3/21/91 ONLY
Sayed A. Sabhat 3/27/91
 STATE OF MARYLAND REGISTERED PROFESSIONAL ENGINEER



NOTE: This plan is for sediment control for grading of streets and lots (No lots grading shown at this time)

CONSTRUCTION SEQUENCE SECTION ONE AREA ONE

- Obtain necessary permits from Howard County
- Clear for sediment control devices
- Install sediment control devices
- Clear for roads and utilities
- Grade site
- Install utilities
- Fine grade site
- Install curb and gutter
- Install walks
- Install paving
- Sod and/or seed and mulch disturbed areas
- Remove sediment control devices from Basin #3 & convert to Storm Water Management Basin.
- Sod storm water management area Lots 1 and 4
- Remove balance of sediment control devices.
- Remove basins #1 & 2 to remain in place for future construction.
- When approved by Sediment Control Inspector

APPROVED:
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 DATE: *3/28/85*
 CHIEF, BUREAU OF ENGINEERING

APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING
 DATE: *3-11-85*
 CITY, COUNTY AND ZONING ADMINISTRATION

DEVELOPER'S CERTIFICATE
 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 SECTORMENT 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 FINAL CONSTRUCTION WITHIN 30 DAYS OF COMPLETION.
Roslyn Goldberg 1-11-85

ENGINEER'S CERTIFICATE
 I CERTIFY THAT THIS PLAN FOR POND CONSTRUCTION, EROSION AND SEDIMENT CONTROL MEETS ALL APPLICABLE AND ENFORCEABLE PLANS BASED ON THE REGULATORY AGENCY OF THE SITE CONDITIONS. I HAVE CONDUCTED A VISUAL INSPECTION OF THE PROJECT SITE AND I HAVE NOTICED THE PRESENCE OF ANY OBSTACLES OR CONDITIONS THAT WOULD PREVENT THE PROPER CONSTRUCTION OF THE POND AND SEDIMENT CONTROL STRUCTURES.
Ed Rogers 1-11-85

Owner: **UIERS, INC**
 ROSLYNN GOLDBERG
 8400 KELLER AVE
 STEVENSON, MD 21153
 301-466-6390

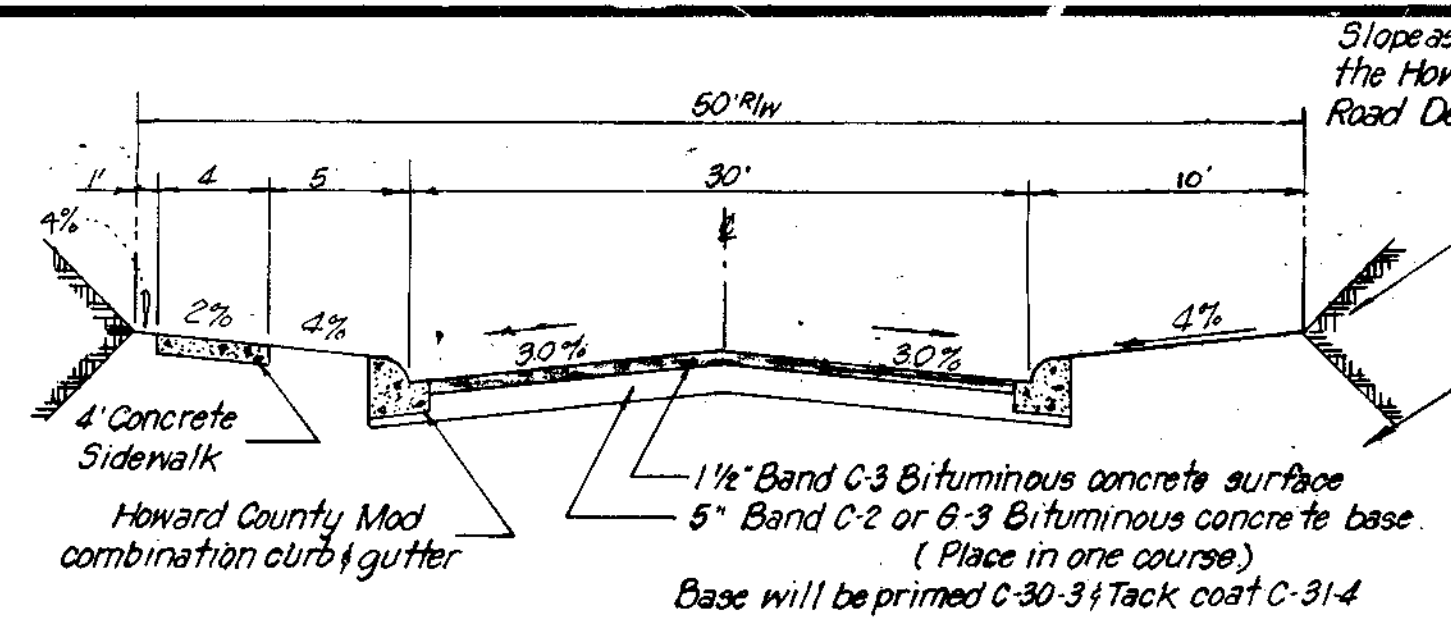
NO.	REVISIONS	DATE

DEVELOPMENT CONSULTANTS GROUP, INC.
 17804 GEORGIA AVENUE
 SUITE 102, OLNEY, MD. 20832
 301-924-4570

PLAN
 Scale 1" = 50'

SEDIMENT CONTROL PLAN, D.A.M.
 Section One, Area One
OWEN BROWN WOODS
 5th ELECTION DISTRICT HOWARD COUNTY, MARYLAND
 TAX MAP 36 PARCEL 113

DATE	Sheet
Dec 7, 1984	2
DRAWN MIKE	of 2
CHECKED BILL	PROJECT NO.
SCALE 1" = 50'	112-01



Slopes as directed by the Howard County Road Department

NOTE: All construction shall be in accordance with the Howard County Road construction code & standard specifications

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 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS. I HAVE NOTIFIED THE DEVELOPER THAT HE MUST PROVIDE THE HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS WITH AN "AS-BUILT" PLAN WITHIN 30 DAYS OF COMPLETION.

S. J. ROBERT
P.E. #2114

DEVELOPER'S CERTIFICATE

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 COUNTY DEPARTMENT OF PUBLIC WORKS WITH AN "AS-BUILT" PLAN WITHIN 30 DAYS OF COMPLETION.

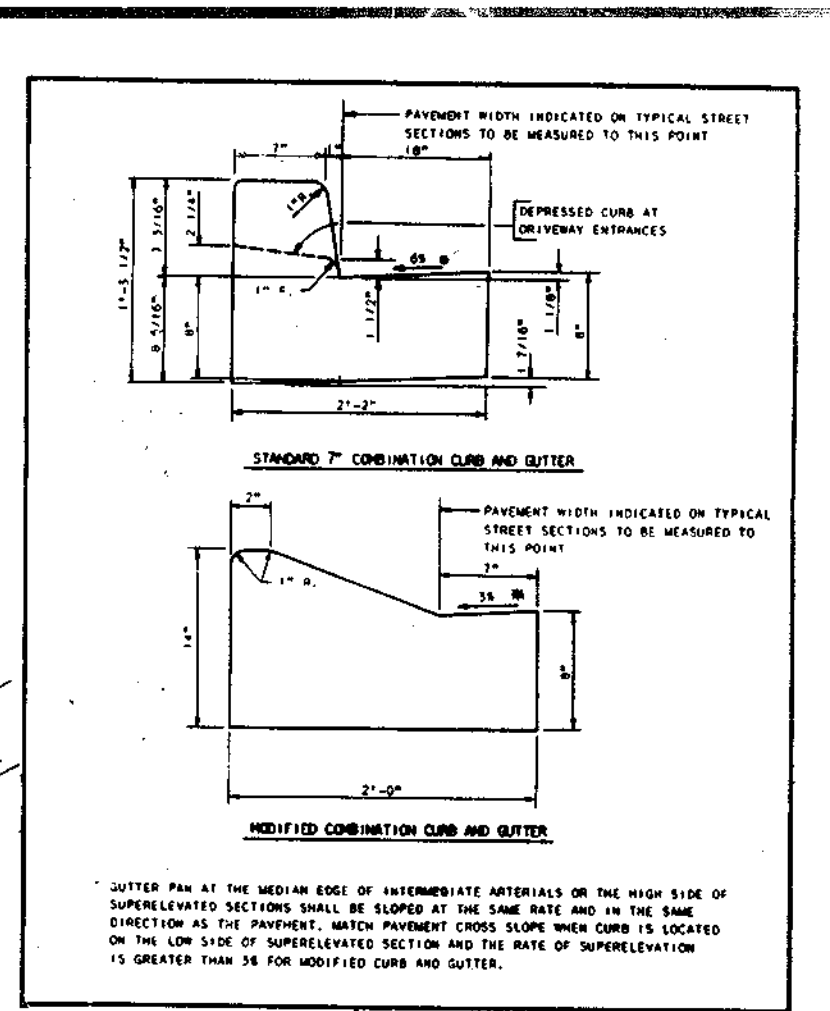
Bradley Golding
DATE: 11-11-92

APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING

John M. Muschman 3/21/95
DATE: 3/21/95
CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION

APPROVED: FOR PUBLIC WATER, PUBLIC SEWER & PUBLIC STORM DRAINAGE SYSTEMS & ROADS.

S. P. Ryan 3/21/95
DATE: 3/21/95
CHIEF, BUREAU OF ENGINEERING



FOR APPROVED REVISIONS DATED 3/21/1991 ONLY

SHANABERG & LANE

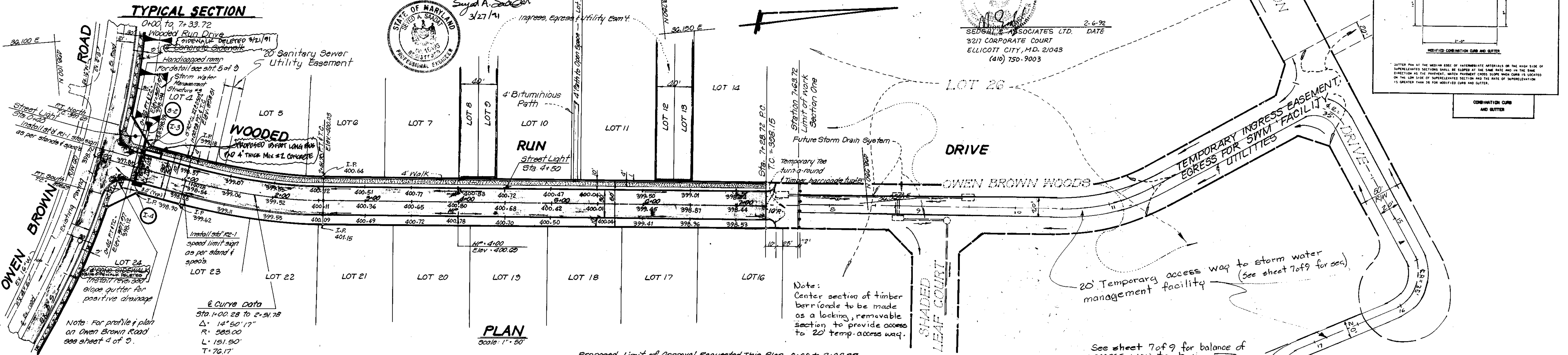
Sybil A. Shanaberg
3/27/91

STATE OF MARYLAND
SYBIL A. SHANABERG
P.E. #1535

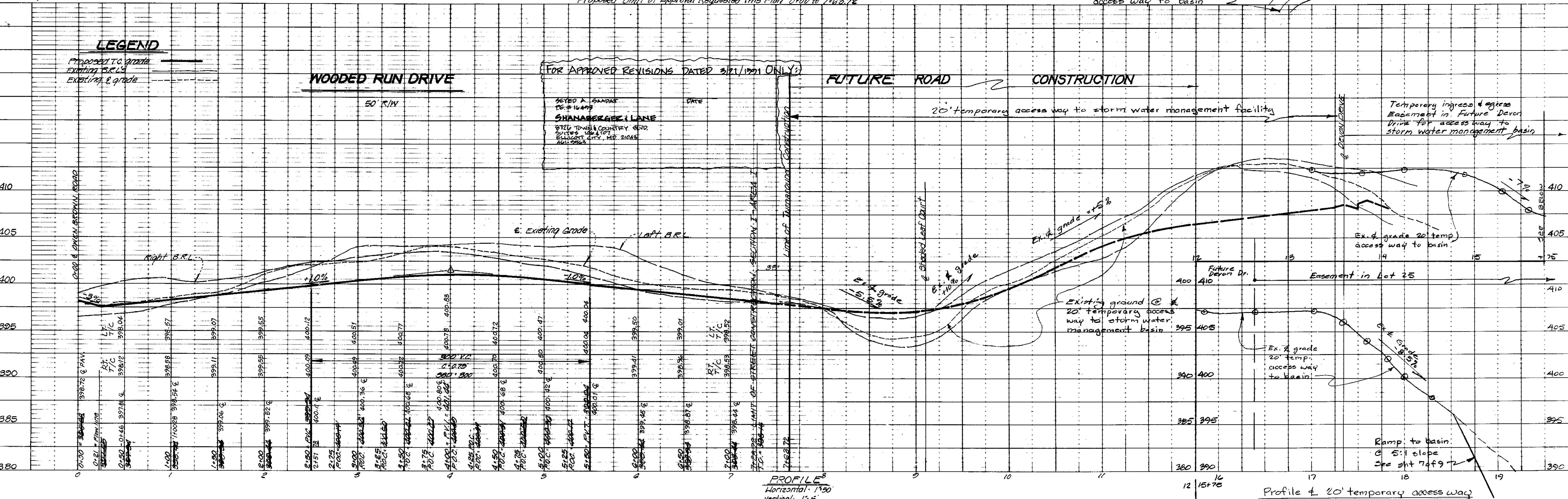
ENGINEER'S CERTIFICATE

I CERTIFY THAT THE FACILITIES WERE CONSTRUCTED IN ACCORDANCE WITH THESE PLANS.

M. J. Sedgwick
2-6-92
DATE: 2-6-92
SEDGWICK ASSOCIATES LTD.
3217 CORPORATE COURT
ELLICOTT CITY, MD. 21043
(410) 750-9003



PLAN
Scale: 1" = 50'



LEGEND

Proposed to grade
Existing S.E.L.
Existing E & grade

FOR APPROVED REVISIONS DATED 3/21/1991 ONLY:

Sybil A. Shanaberg
P.E. #1535
SHANABERG & LANE
3126 TOWNHILL COUNTRY BLVD.
ELLICOTT CITY, MD. 21043
(410) 750-9003

NO.	REVISIONS	DATE
1	REVISE RD. C.L. ELEV. & SHOW LT. # RT. T/C ELEV.	2-6-92



DEVELOPMENT CONSULTANTS GROUP, INC.

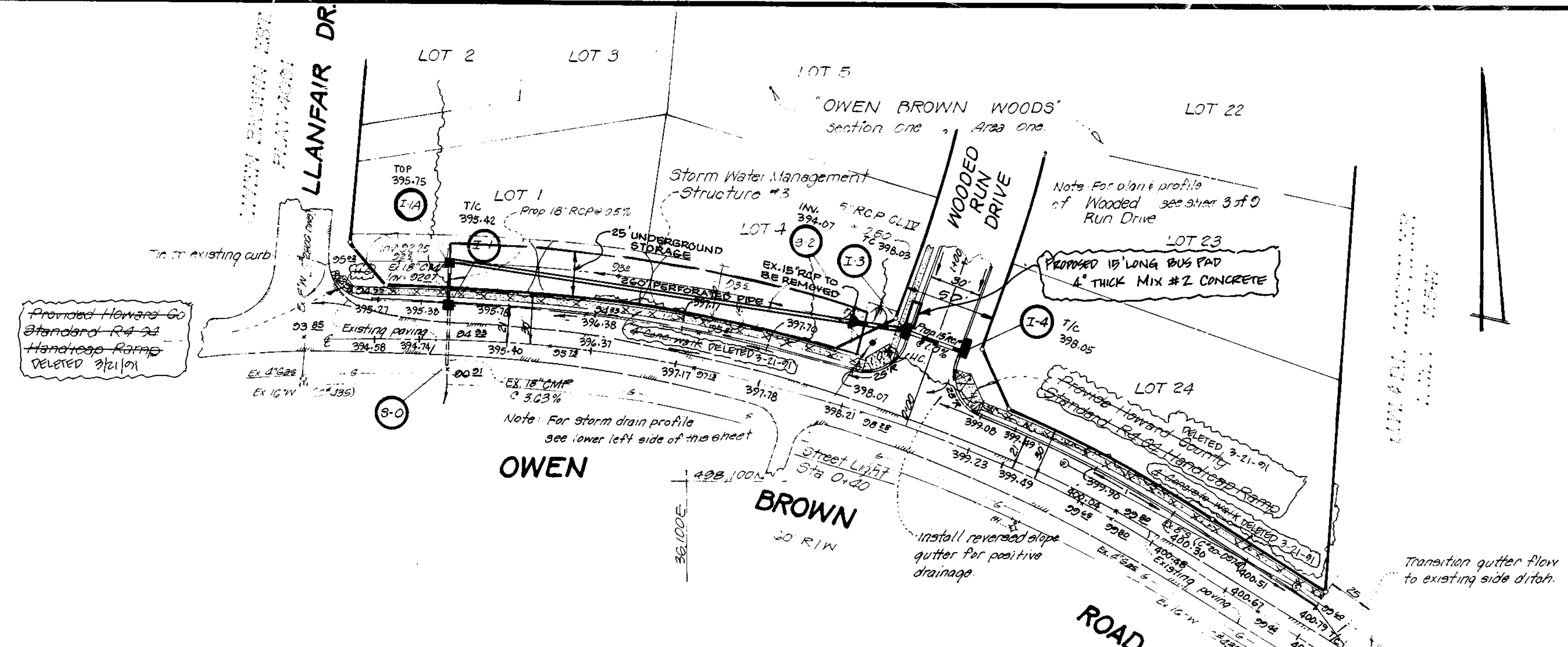
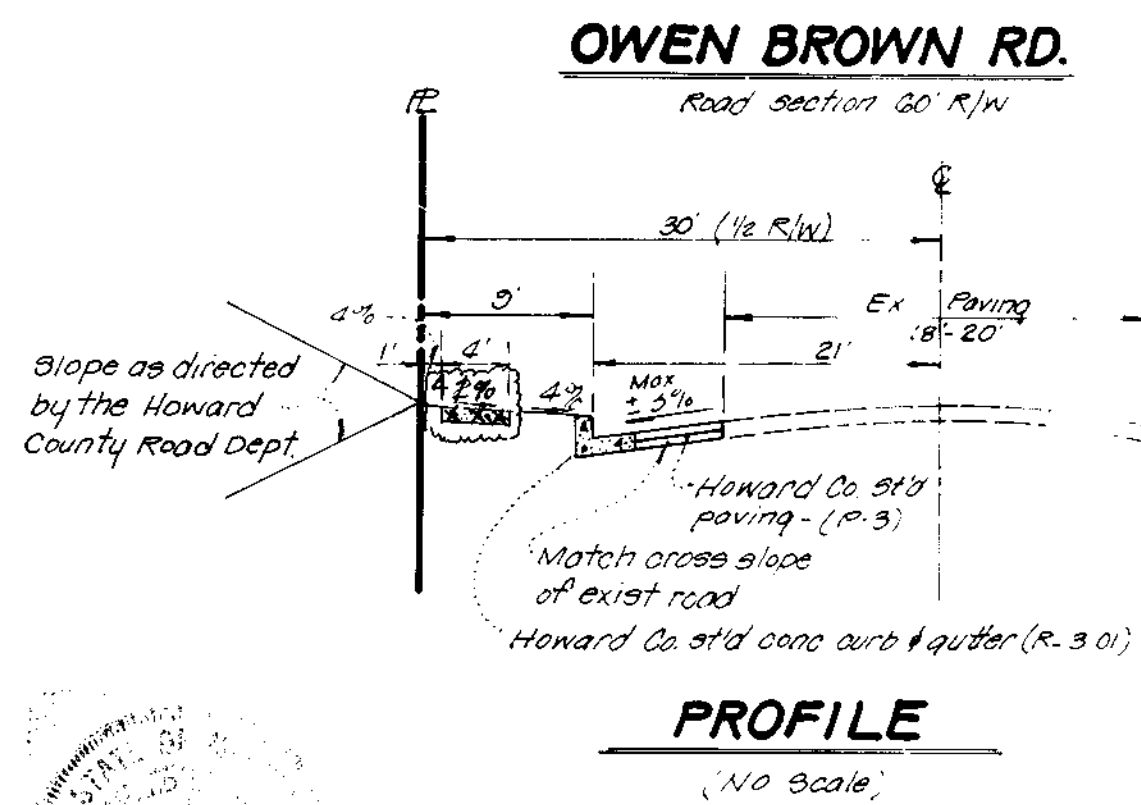
17921 GEORGIN AVENUE
SUITE 102, OLNEY MD 20832
301-921-1570

Storm Drain, Paving & Grade Establishment Plan
Section One, Area One
"OWEN BROWN WOODS"
Tax Map 36 Parcel 113
5th Election District
Howard County, Maryland

DATE: Dec. 7, 1984
DRAWN: M.L. & G.E.
CHECKED: M.L. & G.E.
SCALE: AS SHOWN

Sheet 3 of 9
PROJECT NO. 112-01

NOTE:
MATCH EXISTING PAVING WITH NEW
HOWARD CO. STD (P.3) PAVING AND
MAINTAIN POSITIVE DRAINAGE TO INLETS.



ENGINEER'S CERTIFICATE
I CERTIFY THAT THE FACILITIES WERE
CONSTRUCTED IN ACCORDANCE WITH THESE
PLANS.

John M. Sedgwick
2-6-92
SEDGWICK ASSOCIATES, LTD. DATE
3217 CORPORATE CT. DATE
ELLICOTT CITY, MD 21043
(410) 750-9003

FOR APPROVED REVISIONS DATED 3/21/99 ONLY:
Sayed A. Saadat 3/27/91
SAID A. SAADAT DATE
PE # 16493
SHANADERGER & LANE
8726 TOWN COUNTRY BLVD
SUITE 104107
ELLICOTT CITY, MD 21043
441-9968

STATE OF MARYLAND
REGISTERED PROFESSIONAL ENGINEER
No. 16493

ENGINEER'S CERTIFICATE
I CERTIFY THAT THIS PLAN FOR ROAD CONSTRUCTION, EROSION
AND SEDIMENT CONTROL MEASURES IS 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 OBTAIN THE HOWARD SOIL
CONSERVATION DISTRICT WITH AN "AS-BUILT" PLAN OF THE POND
WITHIN 30 DAYS OF COMPLETION.

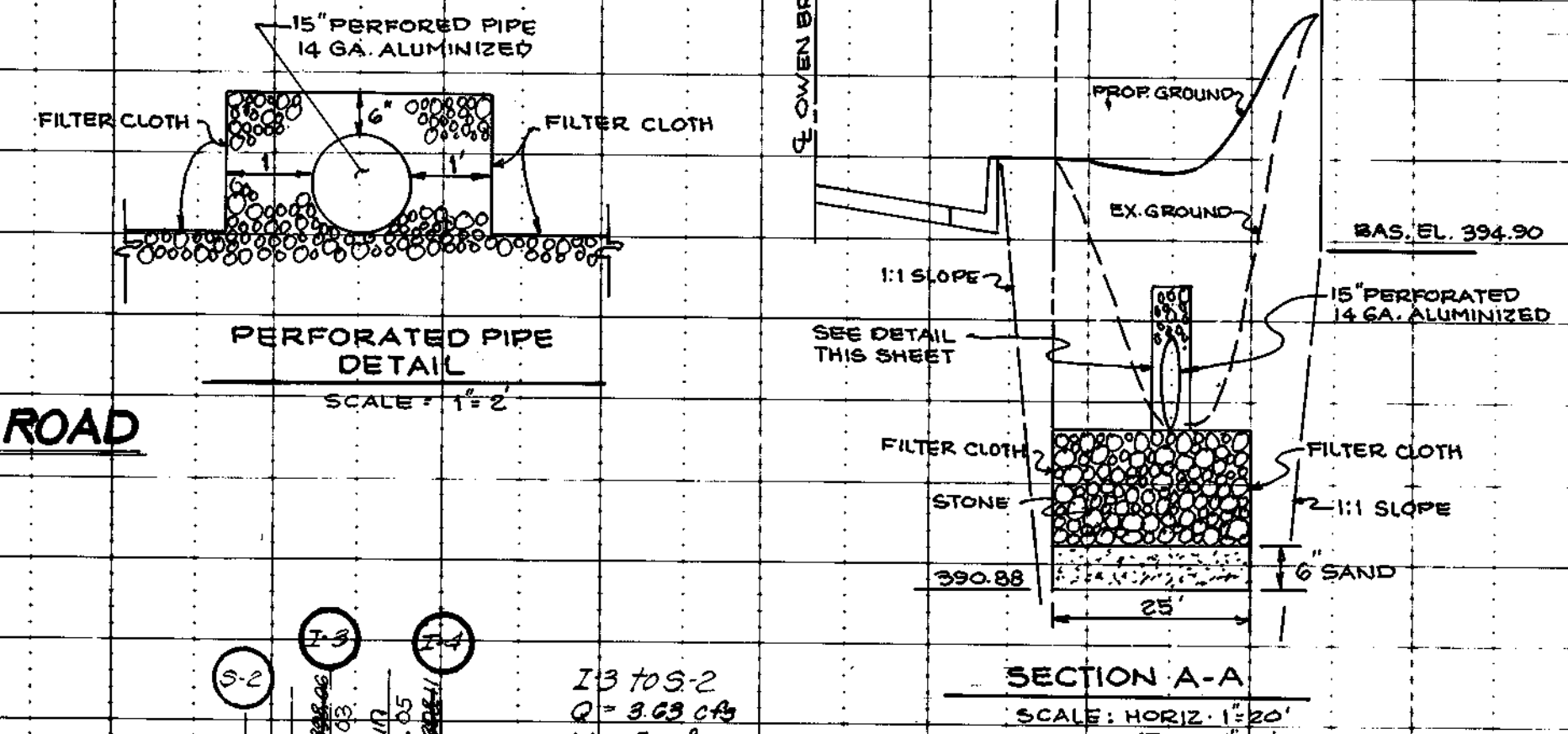
Ed Rogers 3/11/85
EDWARD R. ROGERS, PE # 16493

DEVELOPER'S CERTIFICATE
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.

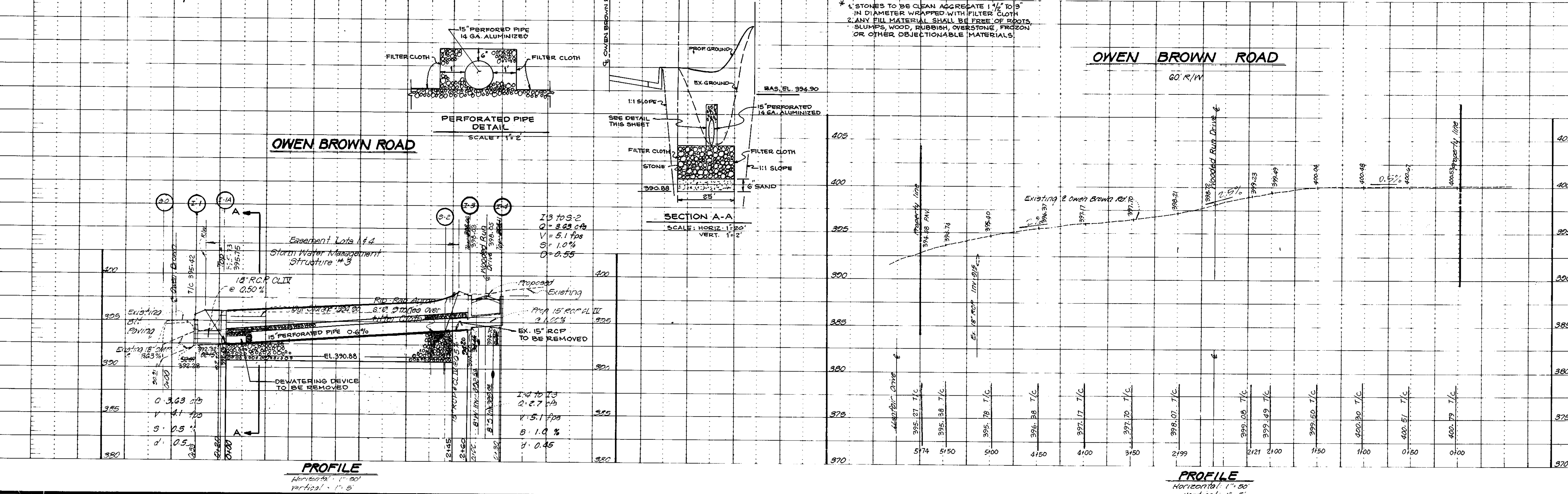
John M. Sedgwick 3/11/85
JOHN M. SEDGWICK, PE # 16493

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
William E. Davis 3/27/91
WILLIAM E. DAVIS, PE # 16493
CHIEF, BUREAU OF ENGINEERING

APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING
John M. Sedgwick 3/11/85
JOHN M. SEDGWICK, PE # 16493
DIRECTOR, OFFICE OF PLANNING & ZONING ADMINISTRATION



* 1" STONES TO BE CLEAN AGGREGATE 1 1/2" TO 3"
1" IN DIAMETER WRAPPED WITH FILTER CLOTH
2. ANY FILL MATERIAL SHALL BE FREE OF ROOTS,
SLUMPS, WOOD, RUBBISH, OVERSTONE, FRIZON
OR OTHER OBJECTIONABLE MATERIALS.



Owner: JTERS, INC.
Roslindale 2, Millersburg
2000 Kellam Avenue
STANMILLS, MD 21153
301-482-2300

NO.	REVISIONS	DATE
1	SHOW RD. C.L. ELEV. & T/C ELEV. & S.D. INVERTS	2-6-92
1	STORMWATER MANAGEMENT STRUCTURE #3	10-13-92

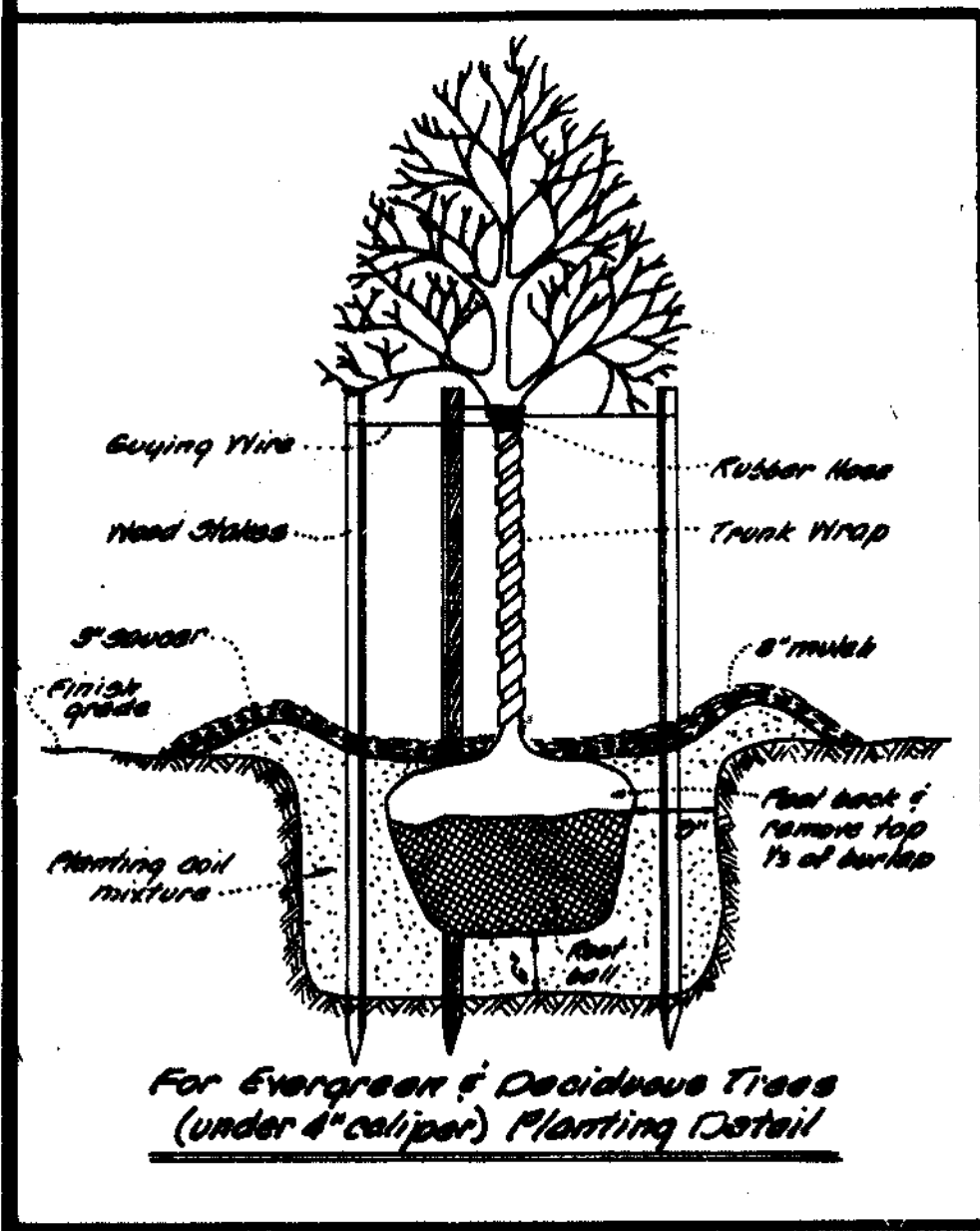
DEVELOPMENT CONSULTANTS GROUP, INC.

17004 GEORGIA AVENUE
SUITE 102, OLNEY MD 20882
301-924-4570

Storm Drain, Paving & Grading Establishment Plan
Section One, Area One
"OWEN BROWN WOODS"
Tax Map 32 Parcel 113
574 Elevation District
Howard County, Maryland

DATE: Dec 7, 1984
DRAWN: Mike
CHECKED: Bill Lee
SCALE: As Shown
DATE: 3-24-92
P. 24-25
P. 85-07
VP 64-130
VP 85-50

Sheet 4 of 9
PROJECT NO. 112-01



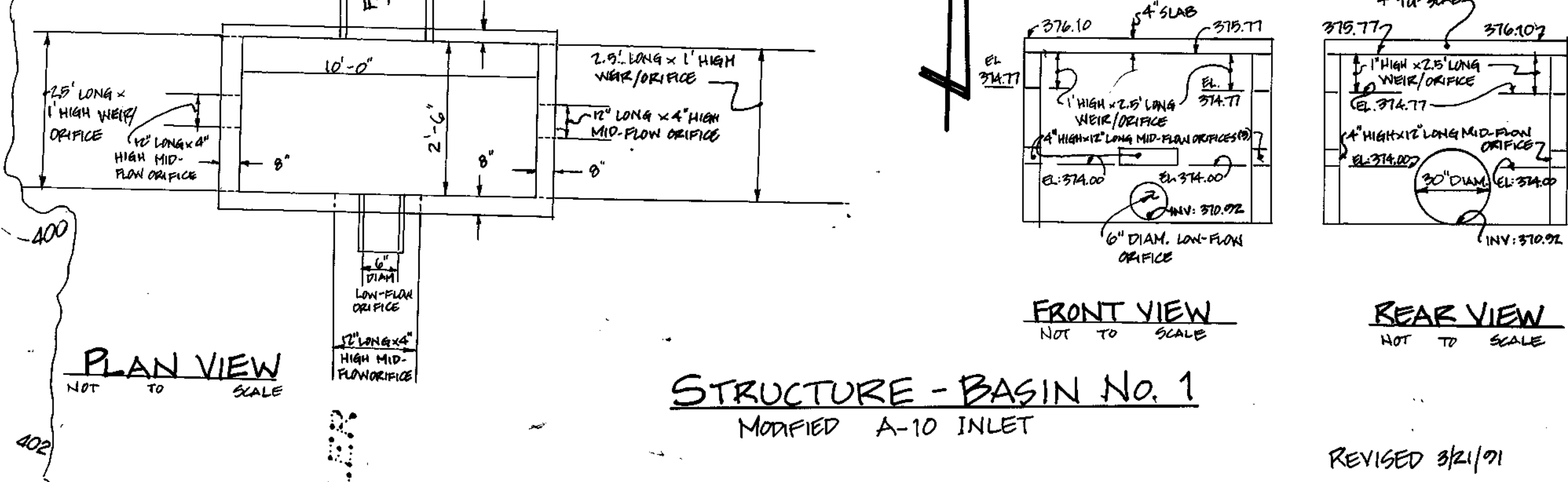
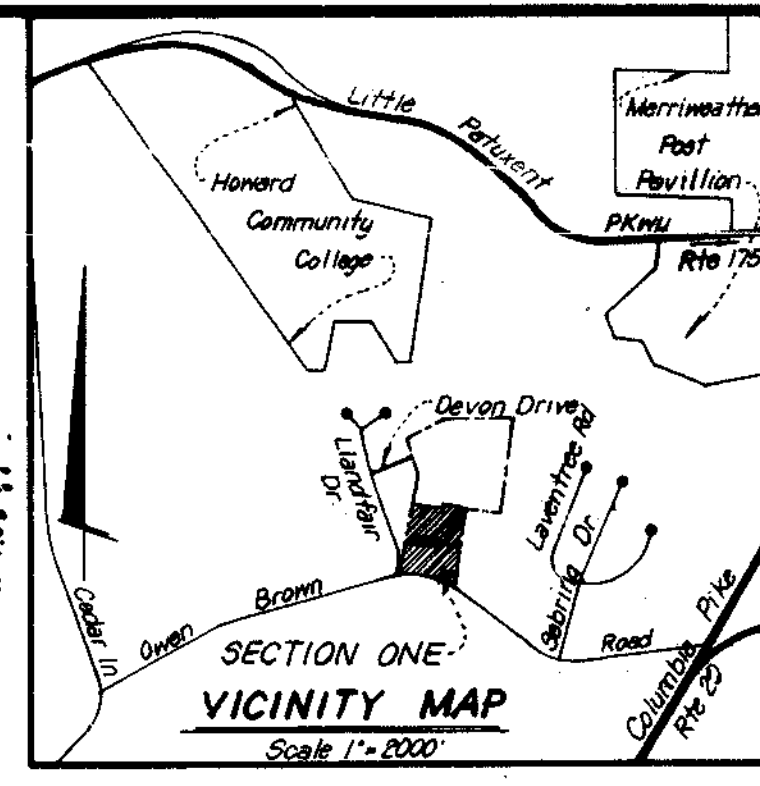
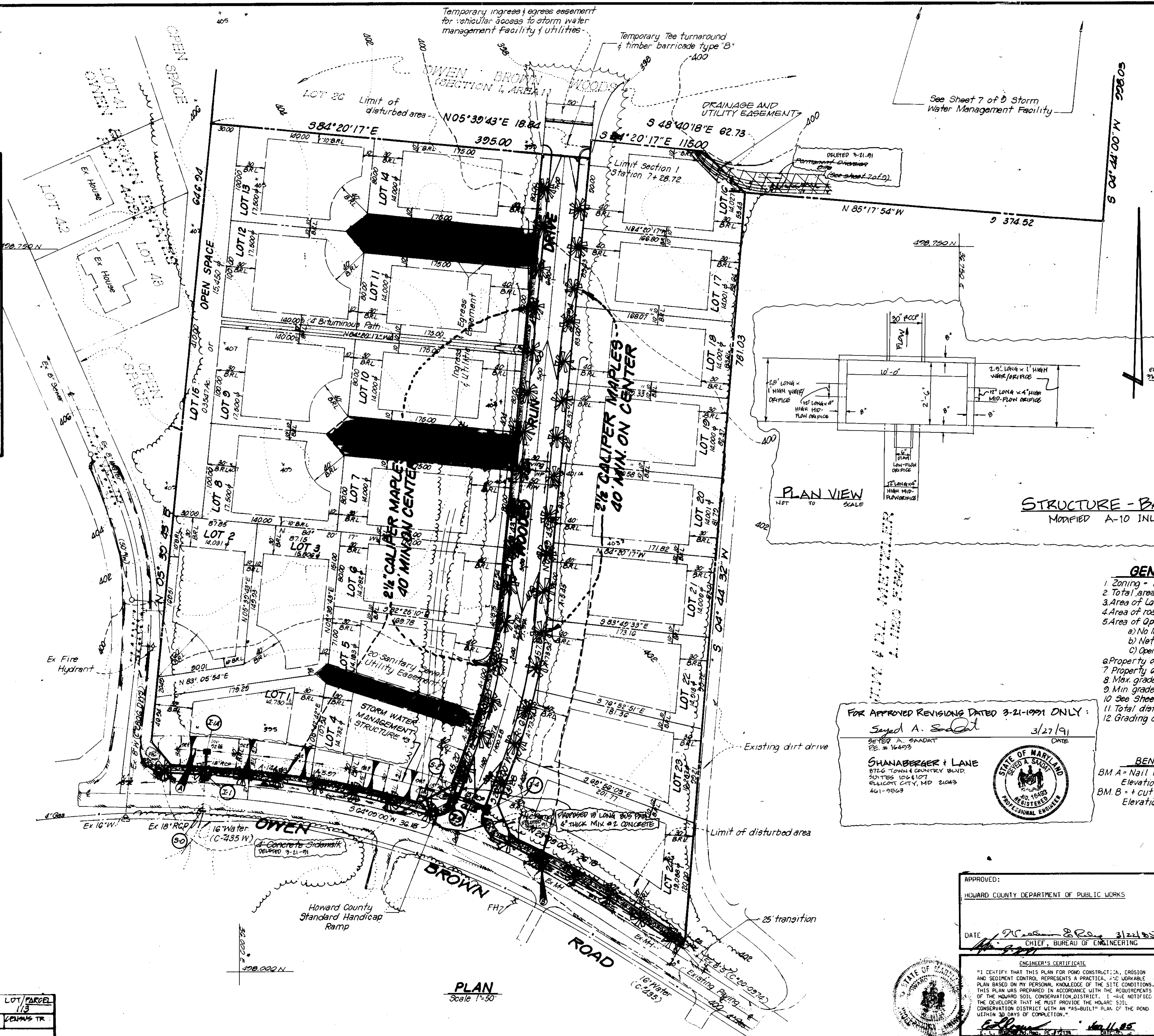
SYMBOLS

- Existing Contour
- Proposed Contour
- Limit of Clearing & Grading
- Proposed Paving
- Concrete Sidewalk
- Bituminous Walk
- Concrete Curbing
- Building Restriction Line (BRL)

LOT NO	STREET ADDRESS
1	Littlefair Drive
2	
3	
4	Wooded Run Drive
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SUPERVISION NAME "OWEN BROWN WOODS"		SECT/AREA ONE	LOT/PARCEL 113
DATE OF L.P. CHECK	ZONE	TAX MAP	ELEV. DIST.
WATER CODE	SEWER CODE		

Owner:	NO.	REVISIONS	DATE
UIERS, INC ROSLYNN GOLDBERG 8600 KELLER AVE STEVENSON, MD 21153 301-486-6300			



- GENERAL NOTES**
- Zoning - R-20
 - Total area - Section One = 2.0283 Ac.
 - Area of Lots = 24 lots = 7.9874 Ac.
 - Area of roads = 1.0409 Ac.
 - Area of Open Space:
 - No 100 year flood plain.
 - Net open space provided = 15,450 sq ft or 0.35 ac.
 - Open space will be met in overall subdivision.
 - Property on tax map 36, Parcel 113.
 - Property on soils map #24. Predominate soils = B-82, B-C6, G1A, G1B2.
 - Max. grade slope 2:1.
 - Min. grade slope 2%.
 - See Sheet 2 of 3 for sediment control.
 - Total disturbed area = 76,000 sq ft or 1.74 ac.
 - Grading on this site is balanced.

FOR APPROVED REVISIONS DATED 3-21-1991 ONLY:
 Signed: A. Saadat 3/27/91
 STATE OF MARYLAND REGISTERED PROFESSIONAL ENGINEER
 SHANBERGER & LANE
 8716 TOWN & COUNTRY BLDG.
 SUITE 106107
 BELMONT CITY, MD 21043
 411-9563

BENCHMARK
 BM A = Nail in utility pole #48720
 Elevation 396.59
 BM B = + cut in rim of sewer MH
 Elevation 399.53

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 DATE: 3/27/91
 CHIEF, BUREAU OF ENGINEERING

APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING
 DATE: 3/28/91
 CHIEF, DIVISION OF PLANNING AND ZONING ADMINISTRATION

ENGINEER'S CERTIFICATE
 "I CERTIFY THAT THIS PLAN FOR POND CONSTRUCTION, EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL, WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE 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 AN "AS-BUILT" PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION."

DEVELOPER'S CERTIFICATE
 "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 COUNTY SOIL CONSERVATION DISTRICT WITH AN "AS-BUILT" PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION."

DEVELOPMENT CONSULTANTS GROUP, INC.
 17904 GEORGIA AVENUE
 SUITE 102 OLNEY, MD 20832
 301-924-4570

LANDSCAPE PLAN SECTION ONE, AREA 1
OWEN BROWN WOODS
 5th ELECTION DISTRICT HOWARD COUNTY, MARYLAND
 TAX MAP 36 PARCEL 113

DATE: Dec 7, 84
 DRAWN: MIKE
 CHECKED: BILL
 SCALE: 1" = 50'

Sheet 6 of 9
 PROJECT NO. 112-01

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 REGULATIONS OF THE HOWARD SOIL CONSERVATION DISTRICT. I HAVE THE DEVELOPER THAT HE MUST PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN "AS-BUILT" PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION."
 E. J. Halbur, Jr. 3/19/85
 STATE OF MARYLAND REGISTERED PROFESSIONAL ENGINEER

DEVELOPER'S CERTIFICATE
 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."
 Robert W. Ziehm 3/19/85

APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING
 DATE 5-2-85
 CHIEF, DIVISION OF PARK DEVELOPMENT AND ZONING ADMINISTRATION

APPROVED: FOR PUBLIC WATER, PUBLIC SEWER & PUBLIC STORM DRAINAGE SYSTEMS & ROADS.
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 DATE 3/22/85
 CHIEF, BUREAU OF ENGINEERING

TYPICAL SECTION
 20' TEMPORARY ACCESSWAY TO STORM WATER MANAGEMENT BASIN
 Clear, grub & seed.
 Existing grade

Notes:
 20' temporary access way is to provide vehicular access to basin #1. Full 20' is to be cleared, grubbed & stabilized in accordance with specs on sheet 5 of 9.

FOR APPROVED REVISIONS DATED 3/21/91 ONLY:
 Sayed A. Saadat 3/27/91
 SAHABERGER I LANE
 8726 TOWN & COUNTRY BLVD.
 SUITES 106 & 107
 BULLCOTT CITY, MD 20843
 410-996-3

NOTE: SOIL BORINGS FOR THIS PROJECT TO BE PROVIDED TO HOWARD SOIL CONSERVATION DISTRICT PRIOR TO CONSTRUCTION OF BASIN #1

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. J. Halbur, Jr. 3/19/85
 U.S. SOIL CONSERVATION SERVICE

THESE PLANS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.
 Robert W. Ziehm 3/19/85
 HOWARD SOIL CONSERVATION DISTRICT

ENGINEER'S CERTIFICATE
 I CERTIFY THAT THE FACILITIES WERE CONSTRUCTED IN ACCORDANCE WITH THESE PLANS.
 SEDONI & ASSOCIATES, LTD. DATE 2-6-92
 3217 CORPORATE COURT
 ELICOTT CITY, MD. 21043
 (410) 750-9003

DELETED 3/21/91
 TO BE BUILT WITH SECTION 2
BASIN #2
 Inv. = 3912
 Top Dike = 390.54
 Max W.S. Elev. 390.2
 15' RCP 35" Dia
 15' RCP 35" Dia
 Structure Modified Type "D" Inlet
 Inv. = 3912
 Top = 391
 4 openings @ 6' x 2'
 Inv. elevation = 390.2
 Pipe = 15' RCP CLVII @ 20%

BASIN #2 HAZZARD CLASS "A"
 3000'± TO PUBLIC ROAD
 OUTFALL 10'± TO R.
 10'± added for Settlement
 DELETED 3/21/91

NOTE:
 Basin to be built as part of Section 2
BASIN #1
 Inv. Out = 370.4
 Top Dike = 370.25
 Max. W.S. elev. = 370.25
 Inv. Basin = 370.25
 10 year storage = 370.25
 pipe 33" Dia @ 30' R.C. Pipe
 Inv. Basin = 370.25
 Structure (over flow)
 Modified A-10 Inlet
 Inv. 370.25
 Orifice #1 = 12" (6" DIA)
 Orifice #2 = 8" (4" DIA)
 Front 12'± to 6'± from front
 Work (3 days) 12'± 2'-6" 10'± back

Totals 12'± x 25'±
 Inv. 370.25
 Top of Structure elev. 370.25
 10'± added for Settlement
BASIN #1 HAZZARD CLASS "A"
 3000'± TO PUBLIC ROAD
 OUTFALL 20'± TO R.

EMERGENCY SPILLWAY
 Inv. = 370.25
 Width = 10'
 Depth = 10.2' (100-year)
 Q = 44 cfs (1.5 cfs)
 Vel = 4.8 fps (1.35 fps)
 S = 2.7% 15'-67'

POINT "B"
 DA = 1.27 ac
 Q = 2.10 cfs
 DELETED 3/21/91

PERMANENT DIVERSION DIKE
 No Scale

POINT "A"
 DA = 0.75 ac
 Q = 1.34 cfs
 DELETED 3/21/91

#1126

NO.	REVISIONS	DATE
1	REGRAVING OF STORMWATER MANAGEMENT BASIN	2-6-92

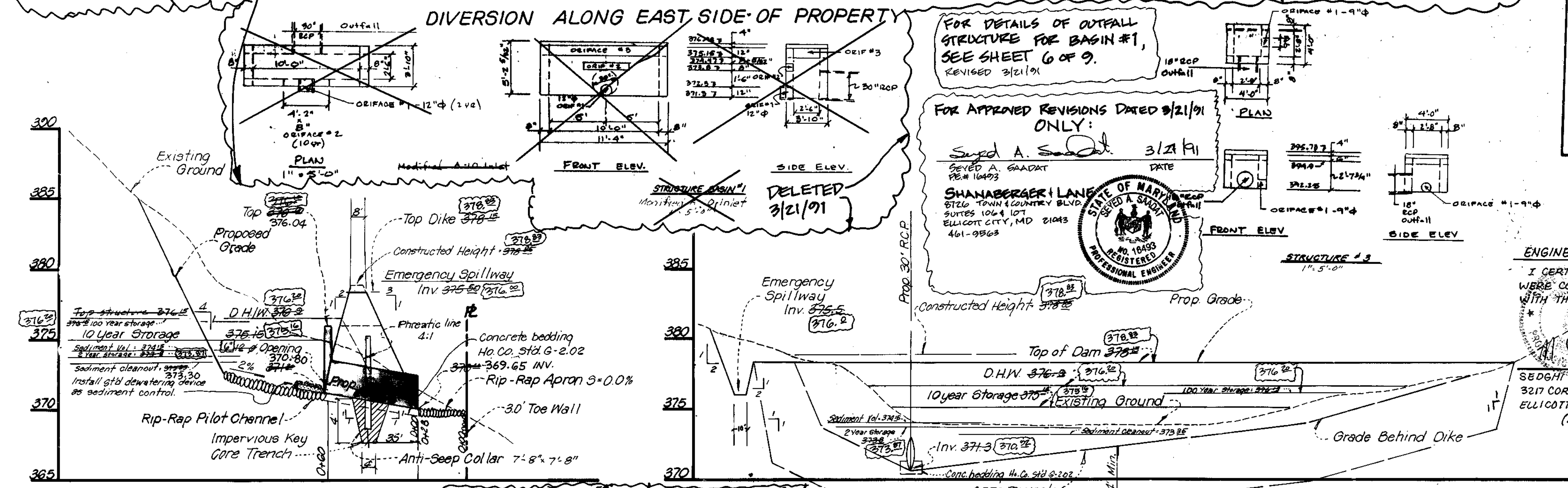
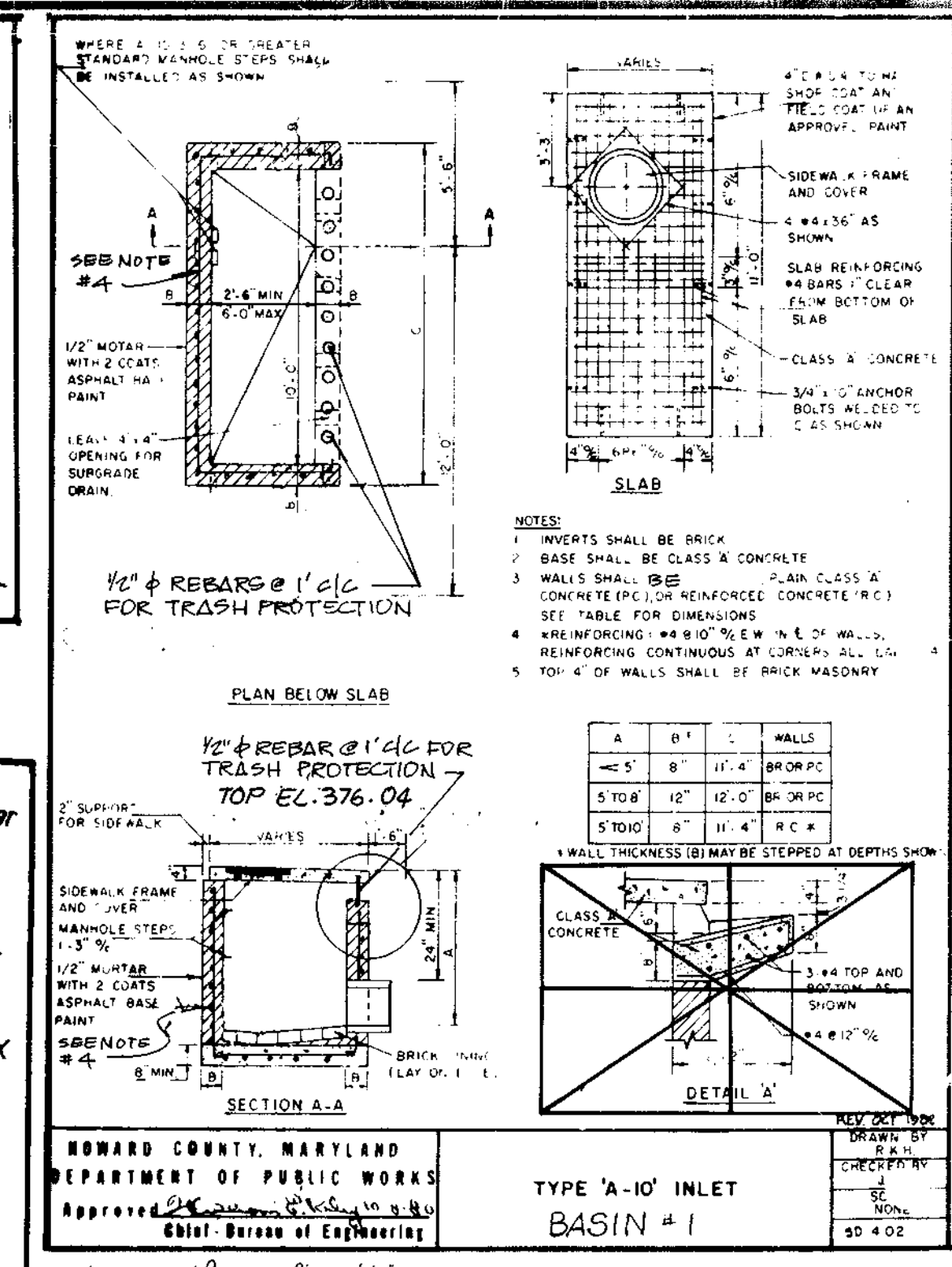
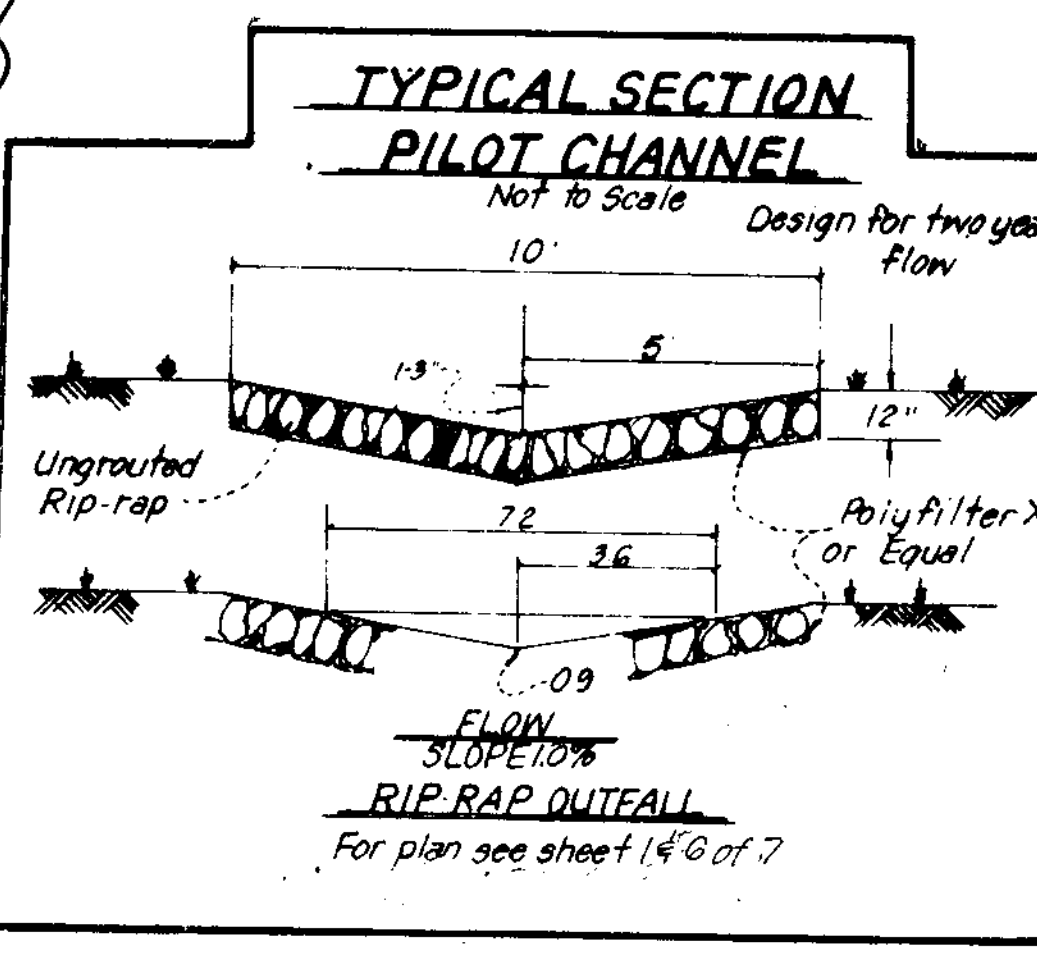
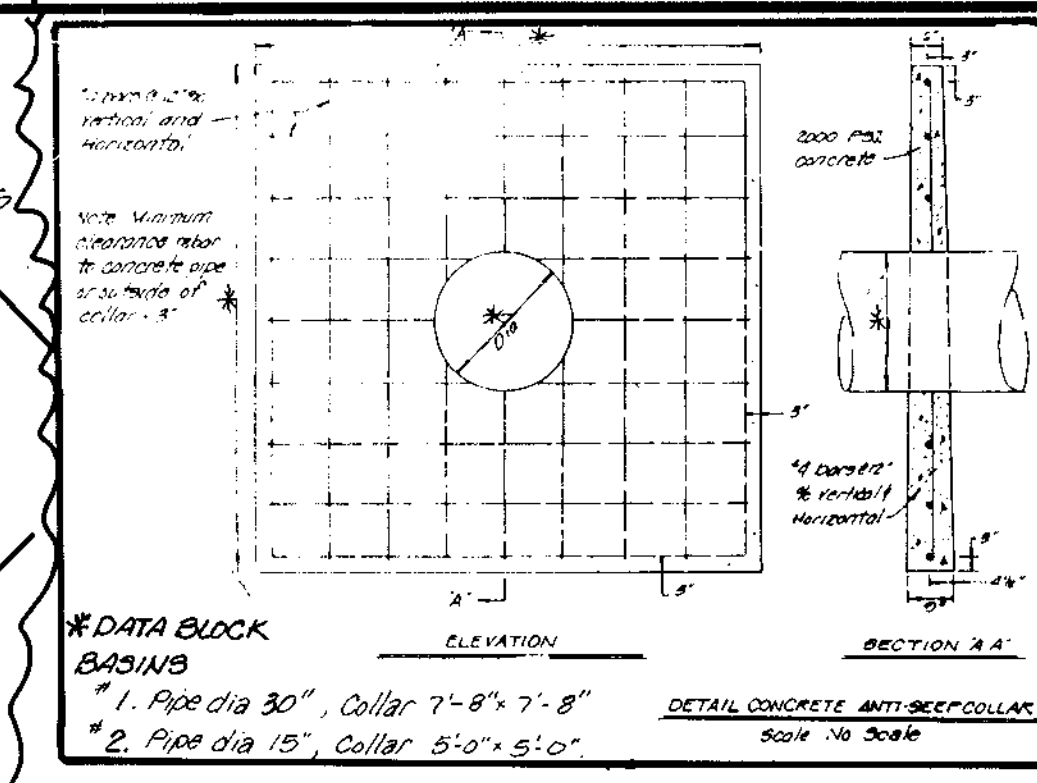
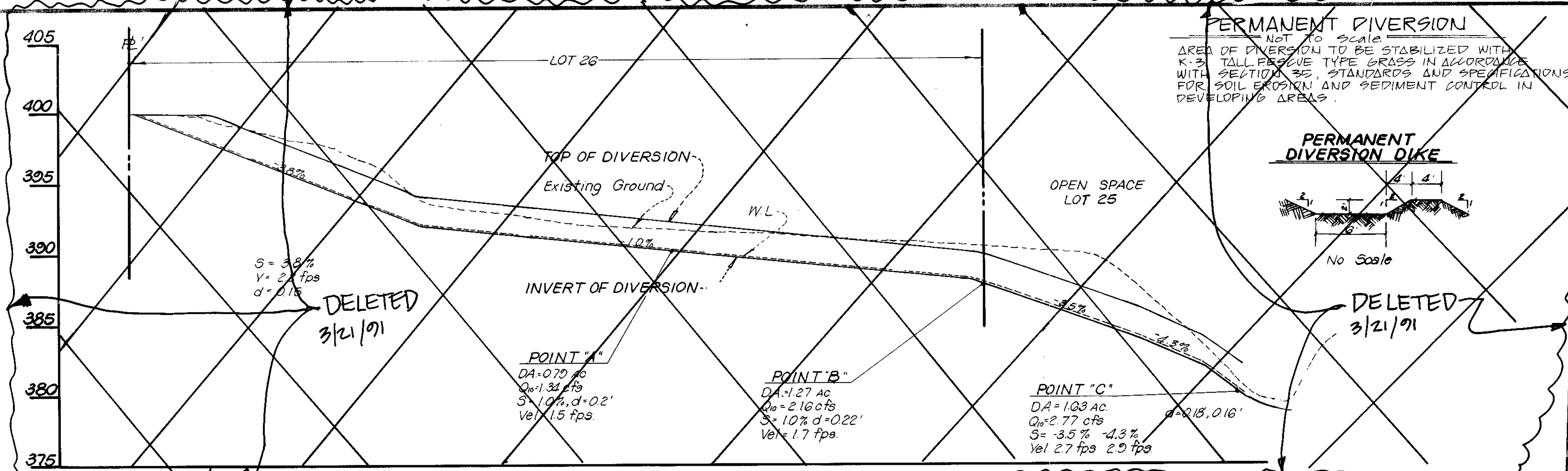
Owner: JIERS, INC.
 ROSLYNN GOLDBERG
 8000 KELLER AVE
 STEVENSON, MD 21153
 301-486-6300

DEVELOPMENT CONSULTANTS GROUP, INC.
 17904 GEORGIA AVENUE
 SUITE 102, OLNEY, MD. 20832
 301-924-4570

SITE PLAN FOR STORM WATER MANAGEMENT BASIN SECTION 1 AREA
OWEN BROWN WOODS
 5th Election District
 Howard County, Maryland
 Tax Map 30, Parcel 113

DATE Dec 7, 81
 DRAWN Greg
 CHECKED M.L.S.
 SCALE 1" = 50'

Sheet 7 of 9
 PROJECT NO. 112-01



FOR DETAILS OF OUTFALL STRUCTURE FOR BASIN #1, SEE SHEET 6 OF 9. REVISED 3/21/91

FOR APPROVED REVISIONS DATED 9/21/91 ONLY:

Supd. A. S. 3/21/91

SHANABGERGER LANE 8700 TOWN & COUNTRY BLVD SUITE 100A LOT ELLICOTT CITY, MD 21043 461-9563



ENGINEER'S CERTIFICATE

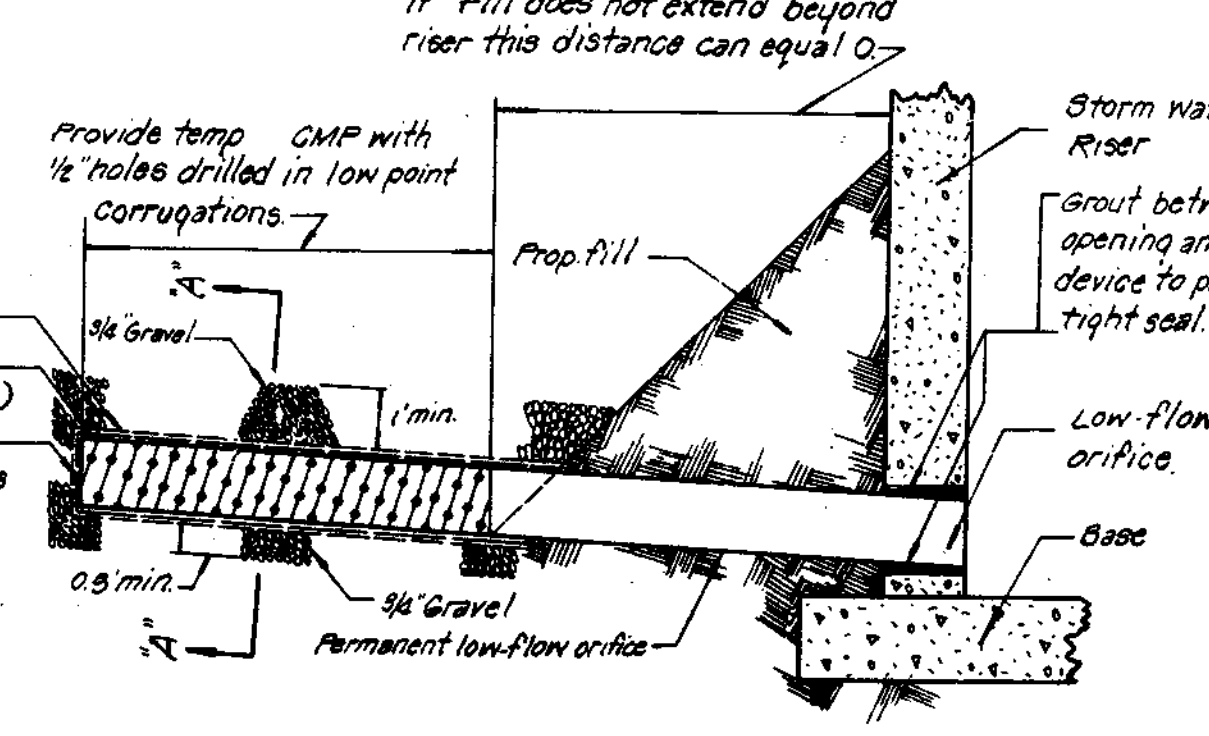
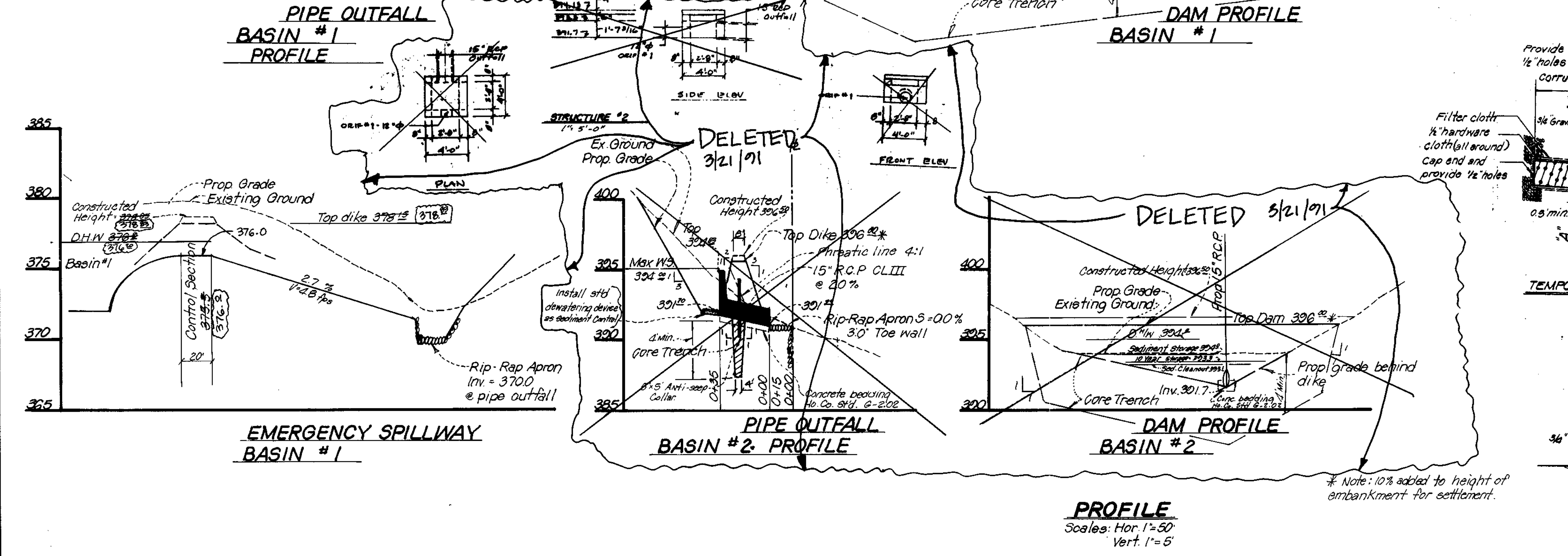
I CERTIFY THAT THE FACILITIES WERE CONSTRUCTED IN ACCORDANCE WITH THESE PLANS.

3-7-85

SEIGHT & ASSOCIATES, LTD. DATE 3-7-85 3217 CORPORATE COURT ELLICOTT CITY MD. 21043 (410) 750-9003

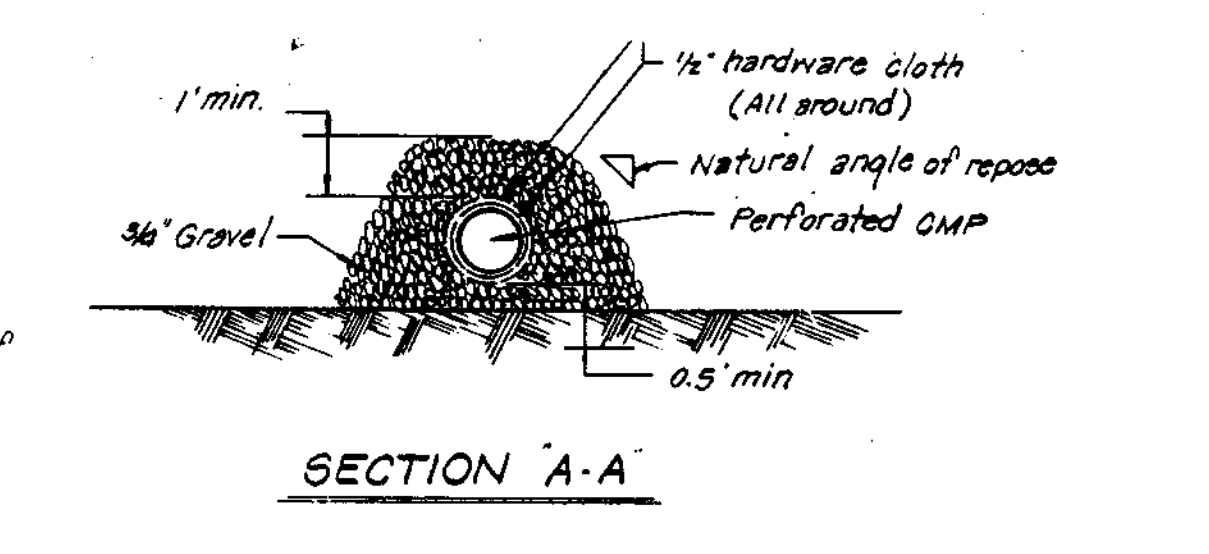
THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL.

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



TEMPORARY DEWATERING DEVICE FOR SEDIMENT CONTROL

Note: Use largest pipe for dewatering device that will fit into low-flow orifice.



APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING
DATE 3-11-85
CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
DATE 3-22-85
CHIEF, BUREAU OF ENGINEERING

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 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 1-11-85

DEVELOPER'S CERTIFICATE
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 1-11-85

Owner: JIERS, INC.
Roslyn Goldberg
8000 Keller Avenue
Stevenson, Md. 21153
301-486-6300

NO.	REVISIONS	DATE
1	REVISION OF TOP ELEVATIONS	2-6-92

DEVELOPMENT CONSULTANTS GROUP, INC.

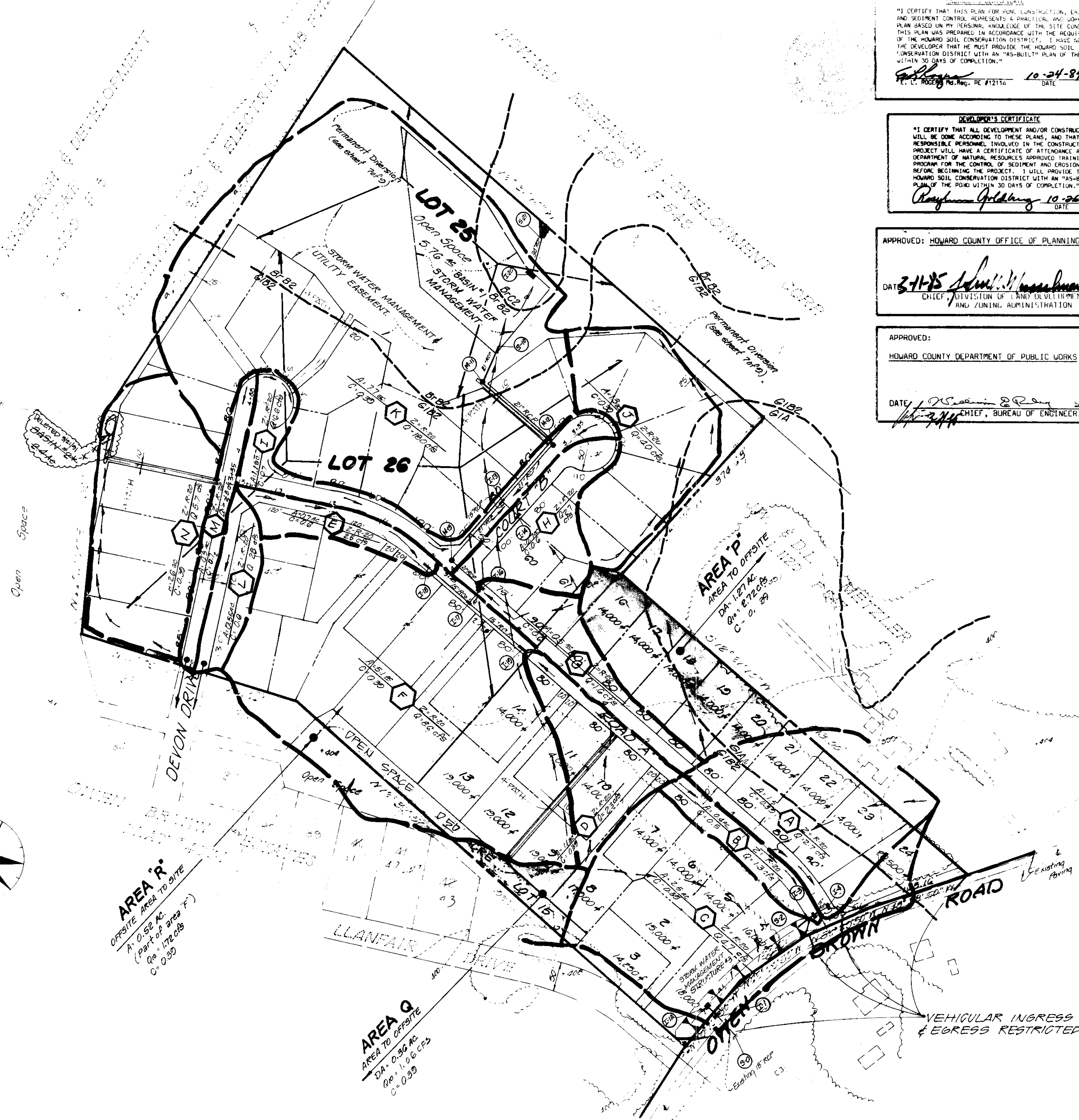
17004 GEORGIA AVENUE
SUITE 102, OLNEY, MD. 20832
301-924-4570

PROFILES & DETAILS
SECTION 1, AREA 1
OWEN BROWN WOODS
5th Election District
Howard County, Maryland
Tax Map 36, Parcel 173

DATE	BY	CHECKED	SCALE
84-22			
84-23			
85-07			
84-180			
85-59			

DATE Dec 7 84
DRAWN Greg
CHECKED M.L.S.
SCALE As Shown

Sheet 8 of 9
PROJECT NO. 112-01



"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 ADVISED THE DEVELOPER THAT HE MUST PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN "AS-BUILT" PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION."

[Signature] 10-24-84
DATE

"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 ROAD WITHIN 30 DAYS OF COMPLETION."

[Signature] 10-26-84
DATE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING

[Signature]
DATE: 3-11-85
CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

[Signature]
DATE: 3-11-85
CHIEF, BUREAU OF ENGINEERING

- CONSTRUCTION SPECIFICATIONS FOR PONDS
- These specifications are appropriate to ponds within the scope of the Standard for grade 375, SOIL CONSERVATION SERVICE HANDBOOK, CONSTRUCTION SPECIFICATIONS FOR PONDS.
- SITE PREPARATION**
 - Areas designated for borrow areas, embankment, and structural works shall be cleared, grubbed and stripped of topsoil. All trees, vegetation, roots and other objectionable material shall be removed. Channel banks and sharp breaks shall be sloped to no steeper than 1:1.
 - Areas to be covered by the pond or reservoir will be cleared of all trees, brush, logs, fences, rubbish and other objectionable material unless otherwise designated on the plans. Trees, brush and stumps shall be cut approximately level with the ground surface.
 - All cleared and grubbed material shall be disposed of outside and below the limits of the embankment as directed by the owner or his representative. When specified, a sufficient quantity of topsoil will be stockpiled in a suitable location for use on the embankment and other designated areas.
 - EARTH FILL**
 - Material** - The fill material shall be taken from good areas. It shall be free of roots, stumps, wood, rubbish, overripe stumps, frozen or other objectionable materials. The embankment shall be constructed to an elevation which provides for anticipated settlement to the design elevation. The fill height shall be along the length of the embankment shall be increased above the design elevation (including freeboard) by 10%.
 - Placement** - Areas on which fill is to be placed shall be scarified prior to placement of fill. Fill materials shall be placed in 8-inch maximum thickness (before compaction) layers which are to be continuous over 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 the equipment or compaction shall be achieved by a minimum of four complete passes of a sheepsfoot, rubber tired or vibratory roller. Fill material shall contain sufficient moisture to obtain the required degree of compaction can be obtained with the equipment used.
 - Cutoff Trench** - A cutoff trench shall be excavated along or parallel to the centerline of the embankment as shown on the plans. The bottom width of the trench shall be as shown on the drawings, with the minimum width being four feet. The depth shall be at least four feet. The side slopes of the trench shall be 1 to 1. The backfill material for the cutoff trench shall be the most impervious material available and shall be compacted with equipment or rollers to secure maximum density and minimum permeability.
 - STRUCTURAL BACKFILL**
 - 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 tampers or other compaction equipment. The material made to fill completely all spaces under and adjacent to the pipe. 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. Under no circumstances shall equipment be driven over any part of a concrete structure or pipe unless there is a compacted fill of twenty-four inches or greater over the structure or pipe.
 - PIPE CONDUITS**
 - All pipes shall be circular in cross section.
 - Reinforced Concrete Pipe**
 - Materials - Reinforced concrete pipe shall have a rubber gasket joint and shall equal or exceed ASTM Specification C-301, approved equivalent is AWWA Specification C-301.
 - Bedding - All reinforced concrete pipe conduits shall be laid in a concrete bedding for their entire length. This bedding or cradle shall conform to Howard County Standard Drawing G-7.02. (Detail Sheet 5 of 8).
 - Laying pipe - Bell and spigot pipe shall be placed with the bell and spigot. Joints shall be made in accordance with recommendations of the manufacturer of the material. After the joints are sealed for the entire line, the bedding shall be placed so that all spaces under the pipe are filled. Care shall be exercised to prevent any deviation from the original line and grade of the pipe.
 - Backfilling shall conform to structural backfill as shown above.
 - Other details (anti-siphon collars, valves, etc.) shall be as shown on the drawings.

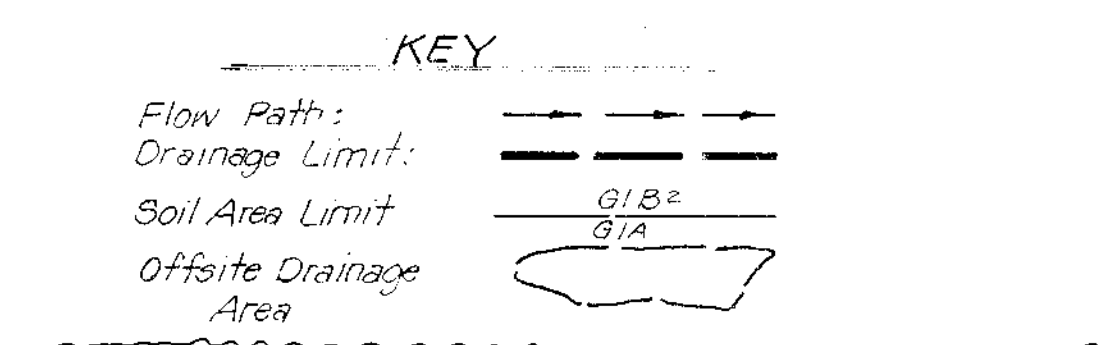
NOTE: SOIL BORINGS FOR THIS PROJECT TO BE PROVIDED TO HOWARD SOIL CONSERVATION DISTRICT PRIOR TO CONSTRUCTION OF BASIN #1

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] 3-7-85
DATE

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

[Signature] 3-7-85
DATE



FOR APPROVED REVISIONS DATED 3/21/1991 ONLY:

[Signature] 3/27/91
DATE

SEYED A. SAGDAT
PE #16493

SHANABERGER & LANE
8724 TOWN & COUNTY BLVD.
SUITE 1004 107
BILLYON CITY, MD 21043
410-9963

STATE OF MARYLAND
PROFESSIONAL ENGINEER

NO.	REVISIONS	DATE
1	AS PER COMMENTS M/S	2/10/84

DEVELOPMENT CONSULTANTS GROUP, INC.

1114 ROUTE 104
CLARKSVILLE, MD 21031
301-591-0380

SOILS STUDY & DRAINAGE AREA MAP (WITH EXPLANIMENT)
SECTION 1, AREA 1
OWEN BROWN WOODS
Tax Map To: [unclear]
374 5th Street, Clarksville, MD

PLAN Scale: 1"=200'

THIS PLAN IS FOR DRAINAGE AREA ONLY

F-85-07