

EXISTING BRAMPTON PARKWAY

NOTE: TRAFFIC SIGNAL TO BE INSTALLED AT INTERSECTION OF BRAMPTON PARKWAY AND MARYLAND ROUTE 103.

NOTE: HOWARD COUNTY TRAVERSE POINTS 2843001 & 2843002 NOW DESTROYED.

NOTE: HORIZON VIAL VERTICAL CONTROL POINTS FOR R/W SHOWN HEREON WERE BASED ON EXISTING MONUMENTATION WITHIN THE SUBDIVISION. VERTICAL VALUES BASED ON MONUMENTATION SET BY CLARK, FINEBROOK & SACKETT SEPT. 1985 DURING AS-BUILT OF BRAMPTON PARKWAY.

Following initial soil disturbance or redistribution, permanent or temporary stabilization shall be completed within:

- Seven (7) calendar days for all perimeter sediment control structures, dikes, mounds, ditches, perimeter slopes and all slopes greater than 3:1.
- Fourteen (14) days as to all other disturbed or graded areas on the project site.

NOTE: The contractor or developer shall contact the Construction Inspection/Survey Division 24 hours in advance of commencement of work at 792-7272.

DEVELOPER'S CERTIFICATE

"I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, 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."

*[Signature]* DATE 8-28-87

ENGINEER'S CERTIFICATE

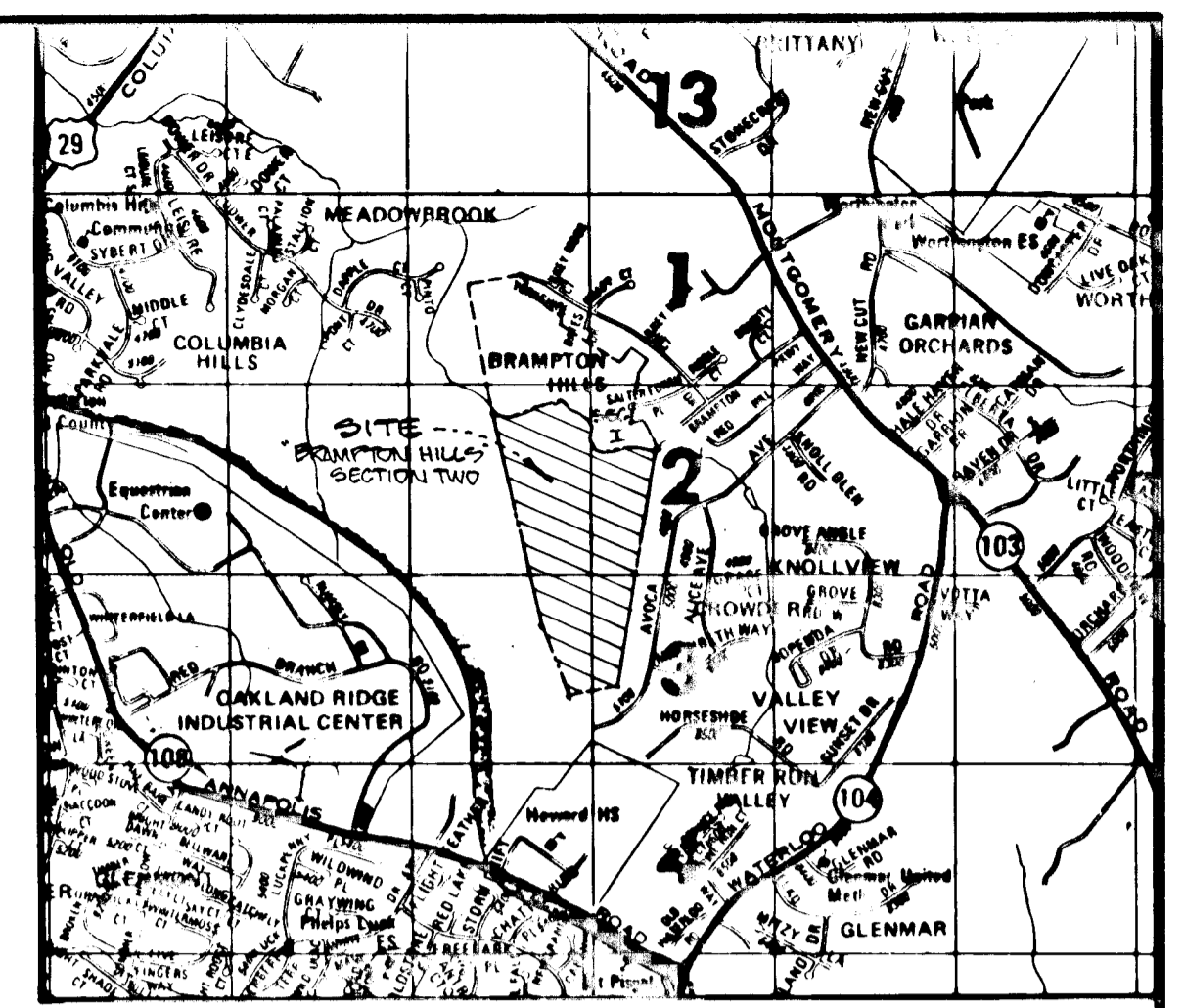
"I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT."

*[Signature]* 8/28/87



AS-BUILT INFORMATION SHOWN THIS: 478.12

AS-BUILT 4/18/91



VICINITY MAP SCALE: 1"=2000'

NOTE: LOT GRADING TO BE SHOWN ON SITE DEVELOPMENT PLAN TO BE SUBMITTED AT A LATER DATE.

REVIEWED FOR HOWARD S.C.D. NAME

AND MEETS TECHNICAL REQUIREMENTS

*[Signature]* 9-3-87 DATE

U.S. SOIL CONSERVATION SERVICE

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

*[Signature]* 9/3/87 DATE

HOWARD S.C.D.

APPROVED: Howard County Office of Planning & Zoning

DIRECTOR *[Signature]* DATE 9-10-87

CHIEF DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

*[Signature]* DATE 9-10-87

Chief, Land Development Division

Chief, Bureau of Highways

*[Signature]* DATE 9-9-87

Chief, Bureau of Engineering

Owner/Developer:  
 CELTA CORPORATION  
 101 CHESTNUT STREET  
 GAITHERSBURG, MD 20878  
 (301) 948-2718

NO.	REVISIONS	DATE



**DEVELOPMENT CONSULTANTS GROUP, INC.**

17904 GEORGIA AVENUE # 102  
 OLNEY, MARYLAND 20832  
 301-924-4570

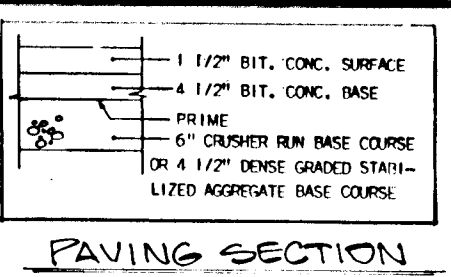
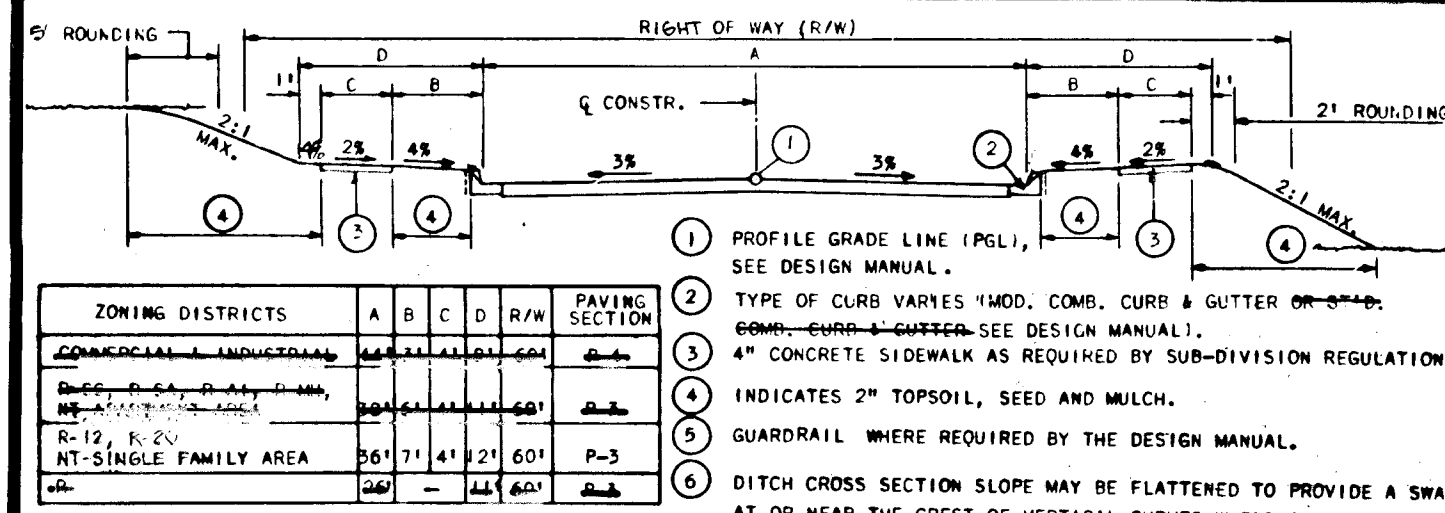
DRAINAGE AREA MAP  
 SECTION 4 - AREA 1  
 BRAMPTON HILLS  
 TAX MAP 50431 PARCEL 50  
 ELLICOTT CITY (2<sup>ND</sup>) ELECTION DISTRICT  
 HOWARD COUNTY, MARYLAND

DATE 8-28-87  
 P. 87-09  
 P. 87-172

AS-BUILT 4-18-91

Sheet 1 of 13  
 PROJECT NO. 160-02

F-87-172



1. PROFILE GRADE LINE (PGL), SEE DESIGN MANUAL.
2. TYPE OF CURB VARIES 1' MOD. COMB. CURB & GUTTER OR 2' MOD. COMB. CURB & GUTTER. SEE DESIGN MANUAL.
3. 4" CONCRETE SIDEWALK AS REQUIRED BY SUB-DIVISION REGULATIONS.
4. INDICATES 2" TOPSOIL, SEED AND MULCH.
5. GUARDRAIL WHERE REQUIRED BY THE DESIGN MANUAL.
6. DITCH CROSS SECTION SLOPE MAY BE FLATTENED TO PROVIDE A SWALE AT OR NEAR THE CREST OF VERTICAL CURVES WHERE QUANTITY OF SWALE FLOW IS SMALL, AS APPROVED BY DWP.

ZONING DISTRICTS	A	B	C	D	R/W	PAVING SECTION
RESIDENTIAL SINGLE-FAMILY AREA	36'	41'	22'	60'	P-3	AS-BUILT

**BRAMPTON PARKWAY**  
 STA. 0+00 TO 4+77.47  
 30 M.P.H. DESIGN SPEED  
 (MINOR COLLECTOR STREET)

**NOTE:**

1. All Handicapped ramps to be as per Howard Co. Standard R.4.01
2. All driveways to be as per Howard Co. Standard R.6.03
3. Maintain positive drainage at all times.

**BRAMPTON HILLS SECTION I, AREA I**  
 F-89-44

**LEGEND**

- LP: 175-WATT "TRADITIONAL" MERCURY VAPOR LAMP POST TOP FIXTURES ON A 14-FOOT GRAY FIBERGLASS POLE LOCATED 2'-10" FROM BACK OF CURB AT THE LOCATIONS SHOWN ON THE PLAN THUS FL.
- R1-1 STD "STOP" SIGN - 30" x 50" OCTAGON
- R2-1 STD "SPEED LIMIT" SIGN - 24" x 30" RECTANGLE (25 M.P.H. & 30 M.P.H. AS NOTED ON PLANS)

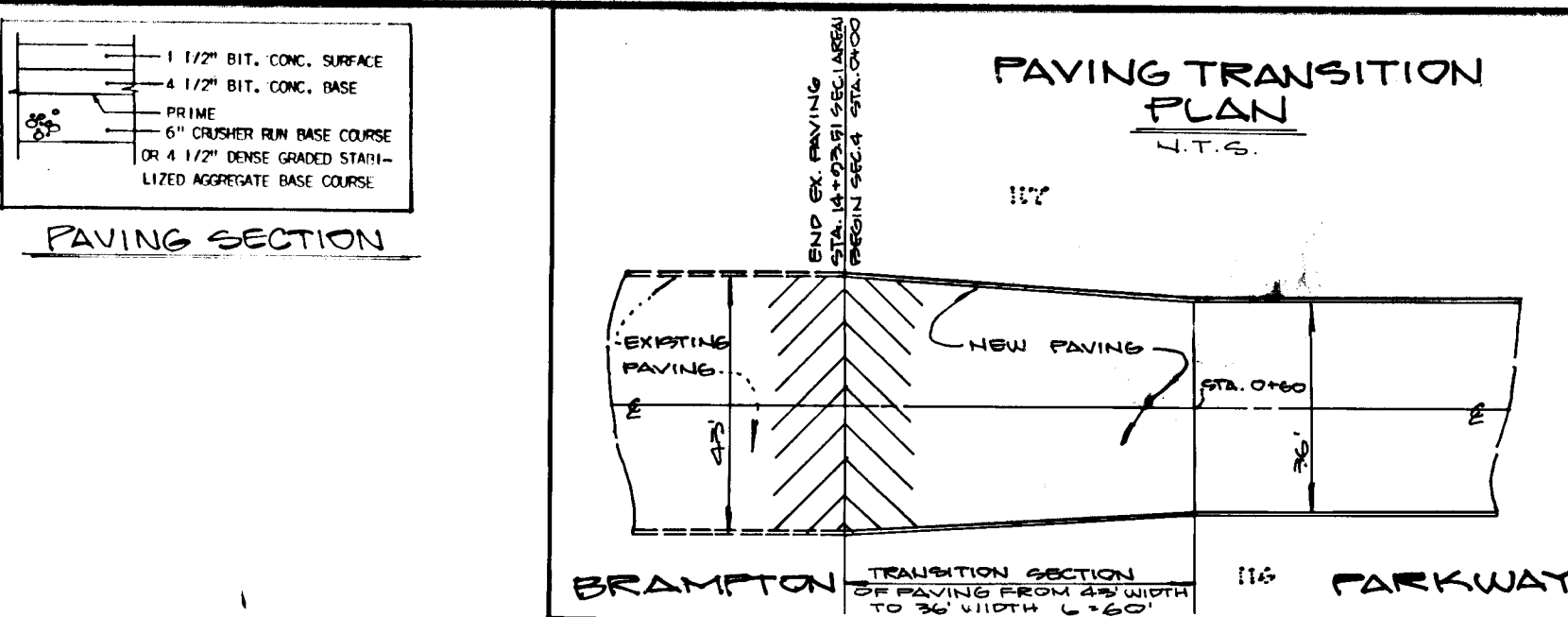
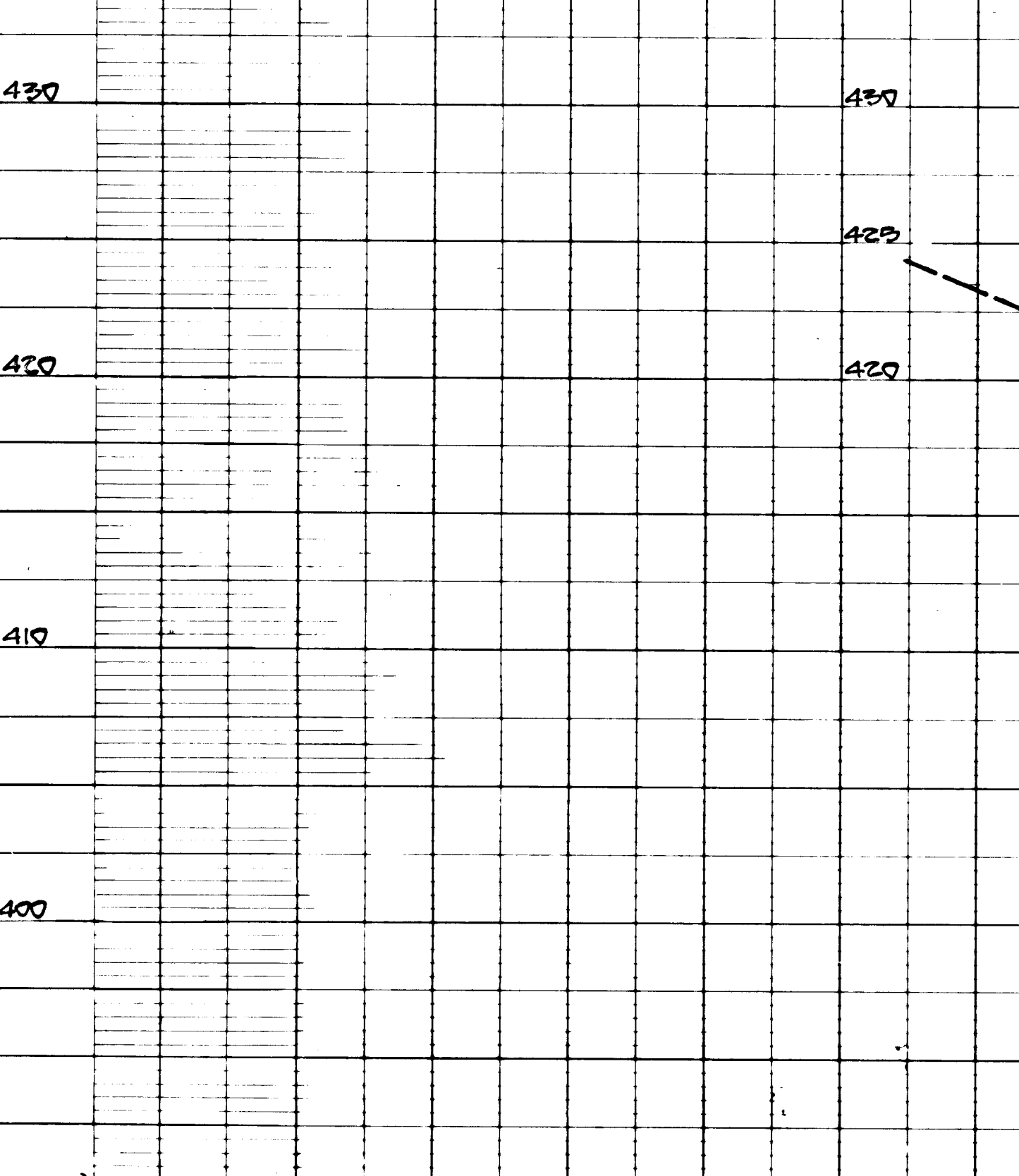
SIGNS TYPICAL THROUGHOUT SUBDIVISION.

SYMBOL	SPECIES	Nº	REMARKS
BS	BELKONA SERRATA (BELKONA VILLAGE GREEN)	21	B+B - 40' - 5' 1/2% FACE CURB *
BP	BRAMPTON GALLERY PEAR (PEAR GALLERY AND BRAMPTON)	27	"
WO	WILLOW OAKS (WILLOW OAKS)	28	"
PL	PURPLE LEAF PLUM (PURPLE LEAF PLUM)	9	"
FR	FRENCH CRABAPPLE (FRENCH CRABAPPLE)	7	"
RM	RED SUNSET MAPLE (ACER RUBRUM 'RED SUNSET')	20	"

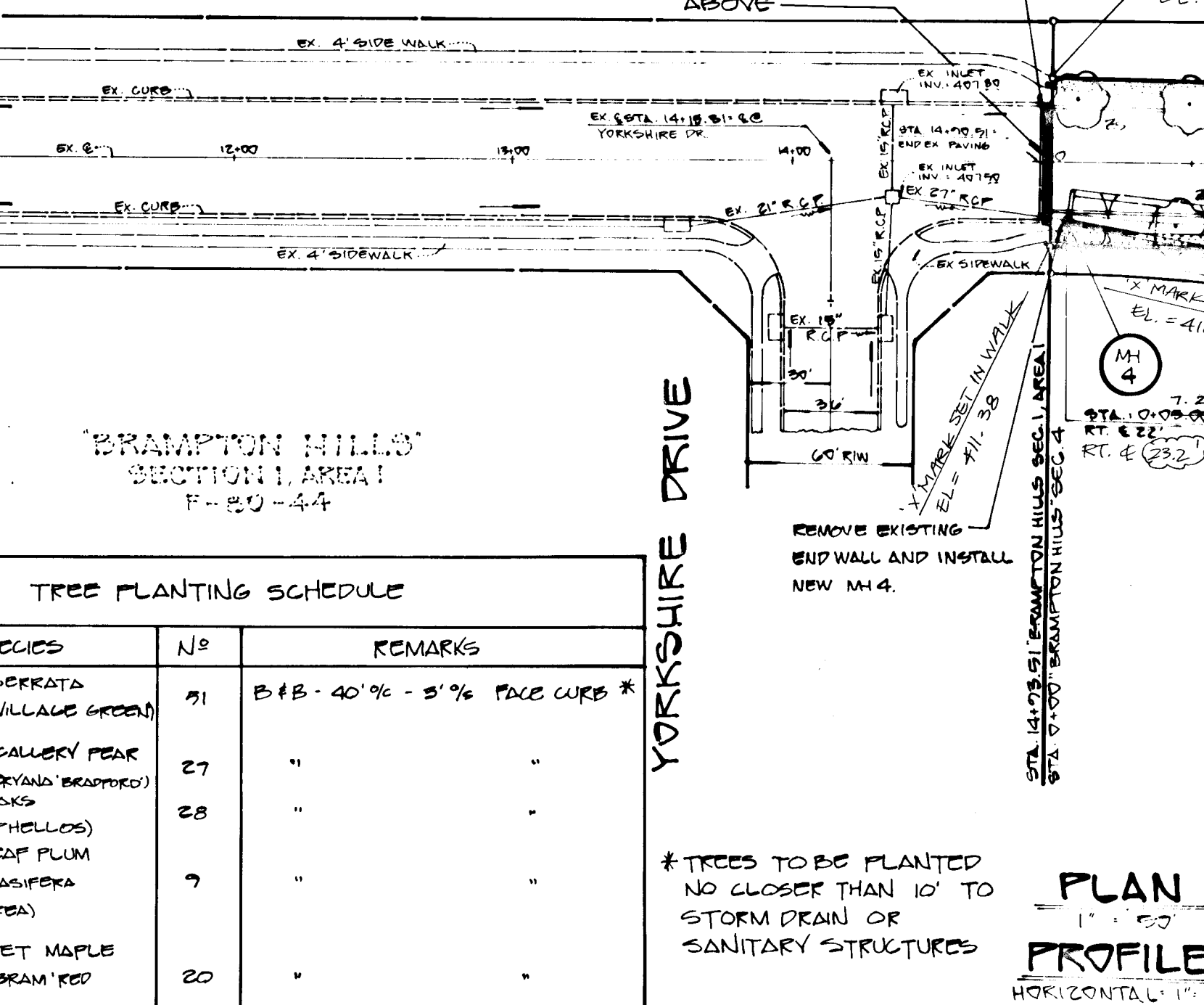
\* TREES TO BE PLANTED NO CLOSER THAN 10' TO STORM DRAIN OR SANITARY STRUCTURES

Landscape to be done in accordance with Sec. 16.131 of Howard Co. subdivision and land development regulations.

**BRAMPTON PARKWAY**

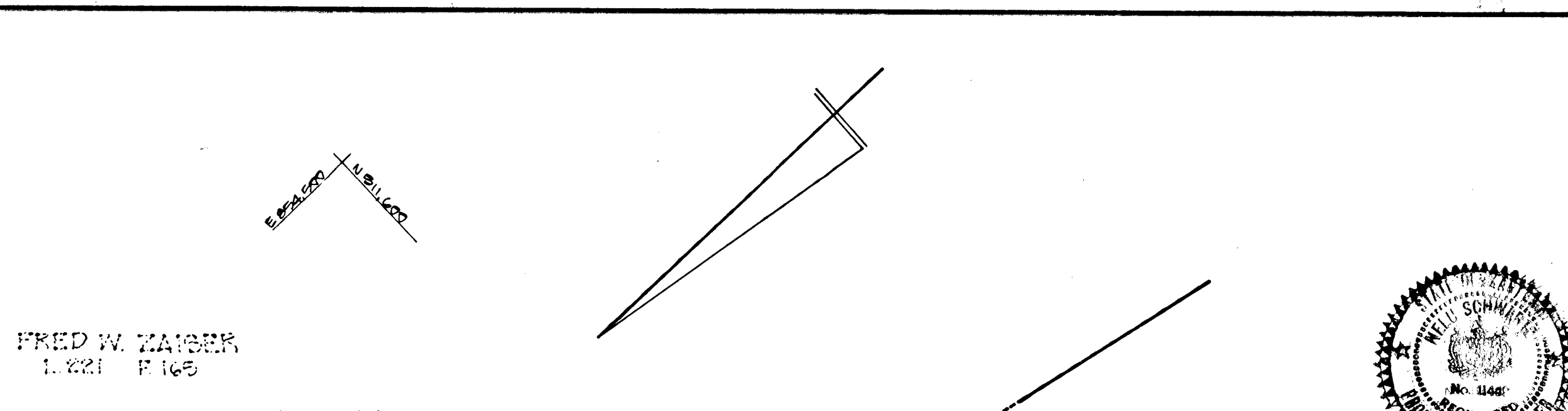
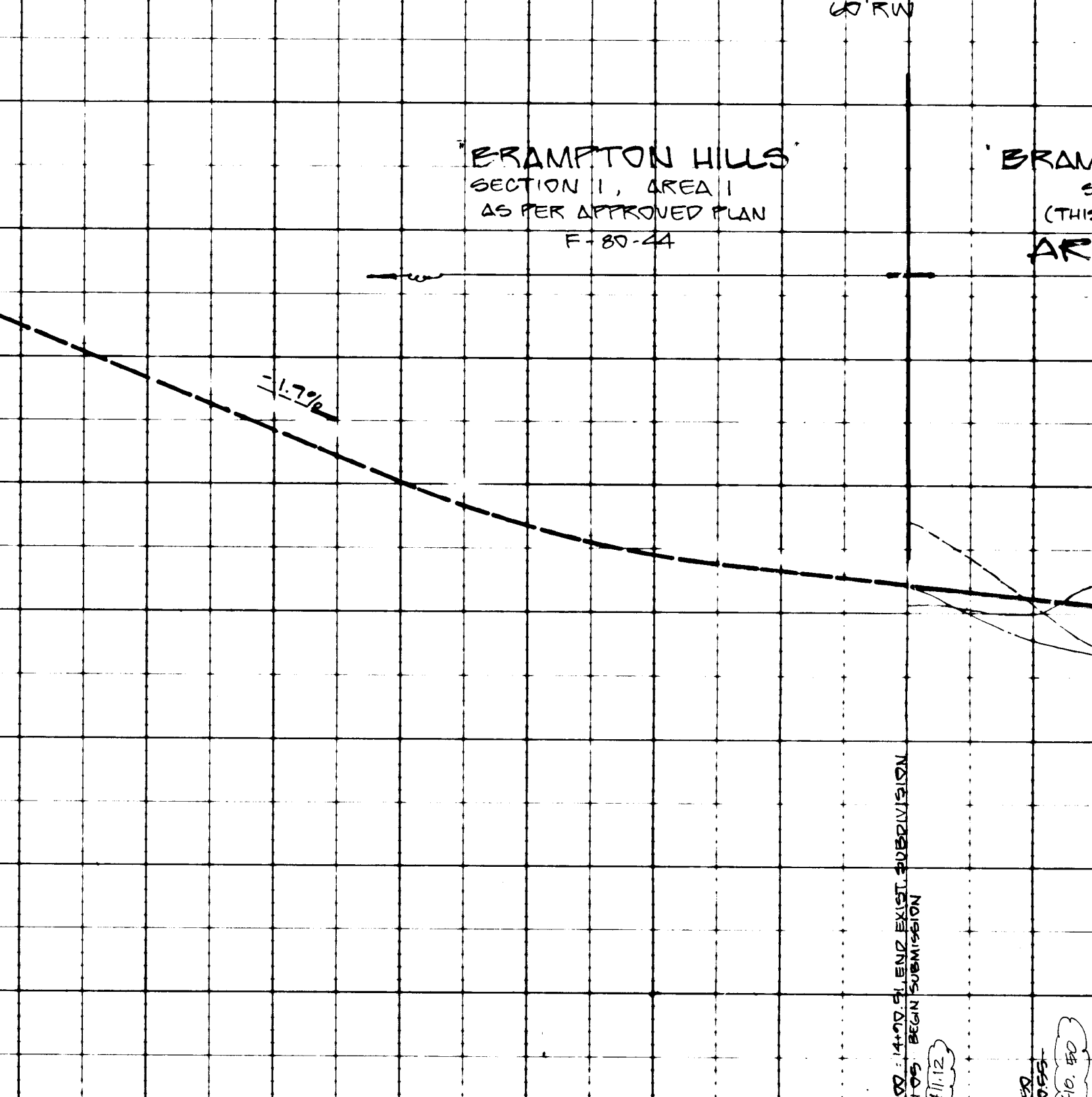


**BRAMPTON PARKWAY**

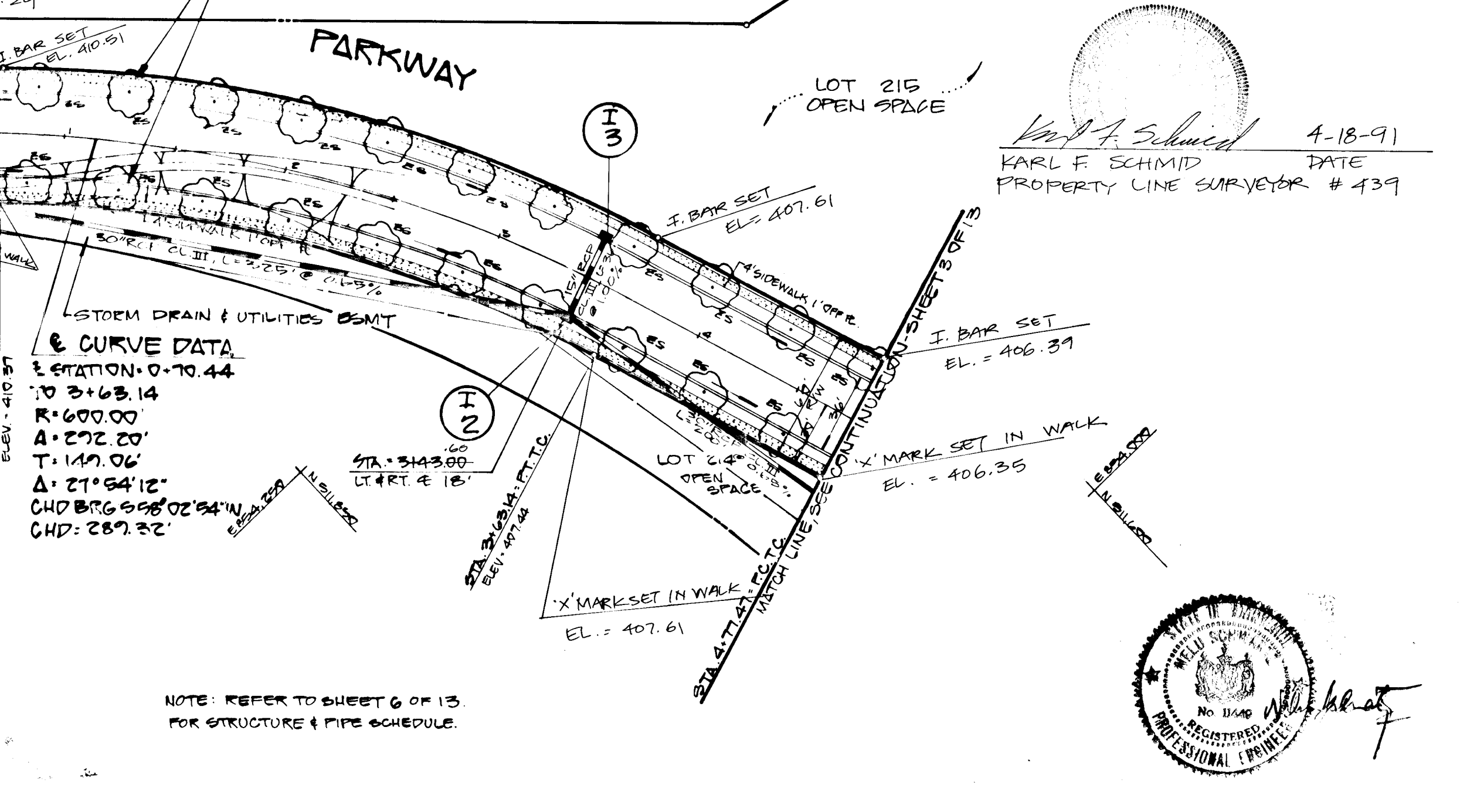


**BRAMPTON HILLS SECTION I, AREA I**  
 F-89-44

**BRAMPTON PARKWAY**



**BRAMPTON PARKWAY**



**BRAMPTON HILLS SECTION I, AREA I**  
 F-89-44

**BRAMPTON PARKWAY**



**DEVELOPER'S CERTIFICATE**

"I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, 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."

*John M. Nelson* 4/18/91 DATE

**ENGINEER'S CERTIFICATE**

I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT."

*John M. Nelson* 08/28/87 DATE

REVIEWED FOR HOWARD S.C.D.  
 NAME  
 AND MEETS TECHNICAL REQUIREMENTS  
*John M. Nelson* 9-3-87 DATE  
 U.S. SOIL CONSERVATION SERVICE

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

*William K. Schmitt* 9/6/87 DATE  
 HOWARD S.C.D.

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
*Michael H. [Signature]* 9-28-87 DATE  
 Chief, Land Development Division

Chief, Bureau of Highways DATE

*William K. Schmitt* 9-1-87 DATE  
 Chief, Bureau of Engineering

APPROVED: Howard County Office of Planning & Zoning

DIRECTOR DATE  
*John M. Nelson* 9-10-87 DATE  
 CHIEF DIVISION OF LAND DEVELOPMENT  
 AND ZONING ADMINISTRATION

Following initial soil disturbance or redistribution, permanent or temporary stabilization shall be completed within:

- 1) Seven (7) calendar days for all perimeter sediment control structures, dikes, mounds, ditches, perimeter slopes and all slopes greater than 3:1;
- 2) Fourteen (14) days as to all other disturbed or graded areas on the project site.

NOTE: The contractor or developer shall contact the Construction Inspection/Survey Division 24 hours in advance of commencement of work at 792-7272.

**LEGEND**

P.G.L. (○) \_\_\_\_\_

EX. & RIGHT OF WAY \_\_\_\_\_

75' B.R.L. LEFT \_\_\_\_\_

75' B.R.L. RIGHT \_\_\_\_\_

NO.	REVISIONS	DATE
1	ADDITION OF PAVING TRANSITION DETAIL AS PER COUNTY COMMENTS (MR. SIMON)	2-24-88

**DEVELOPMENT CONSULTANTS GROUP, INC.**

17904 GEORGIA AVENUES 5-102  
 OLNEY, MARYLAND, 20832  
 301-724-4570

CONTRACT: CELTA CORPORATION  
 101 CHESTNUT STREET  
 GAITHERSBURG, MD. 20877  
 (301) 248-2718

DATE ESTABLISHMENT AND DETAILED PLAN  
 SECTION 4 - AREA I  
**"BRAMPTON HILLS"**  
 TAX MAP 20141, PARCEL 30  
 BULLCOTT CITY (2ND) ELECTION DISTRICT  
 HOWARD COUNTY, MARYLAND

DATE	SHEET
MARCH 1987	2
DRAWN MIKE L.	OF 13
CHECKED M.L.S.	PROJECT NO. 160-02
SCALE AS SHOWN	

F-89-172

\* NOTE:  
FOR DETAIL OF BCCMP CONN.  
SEE SHEET 10 OF 13

**E CURVE DATA**  
 E STATION = 4+71.77 TO  
 7+63.98  
 R = 500.00'  
 A = 486.91'  
 T = 264.46'  
 Δ = 55°45'00"  
 CHD BRG = 44°07'30"W  
 CHD = 467.54'

**E CURVE DATA**  
 E STATION = 11+97.24 TO  
 13+76.18  
 R = 750.02'  
 A = 418.94'  
 T = 215.00'  
 Δ = 31°45'00"  
 CHD BRG = 5°22'30"W  
 CHD = 413.60'

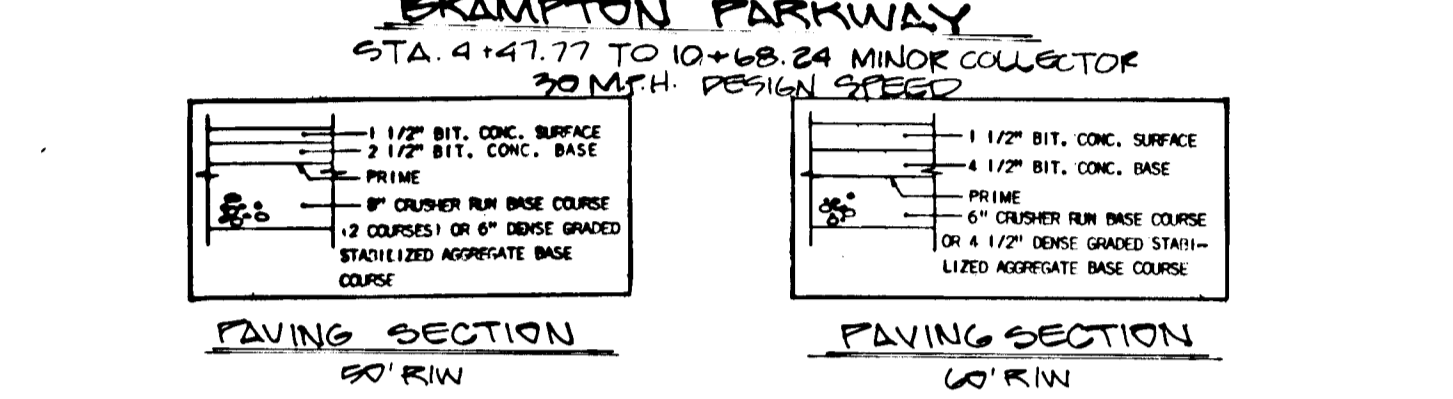
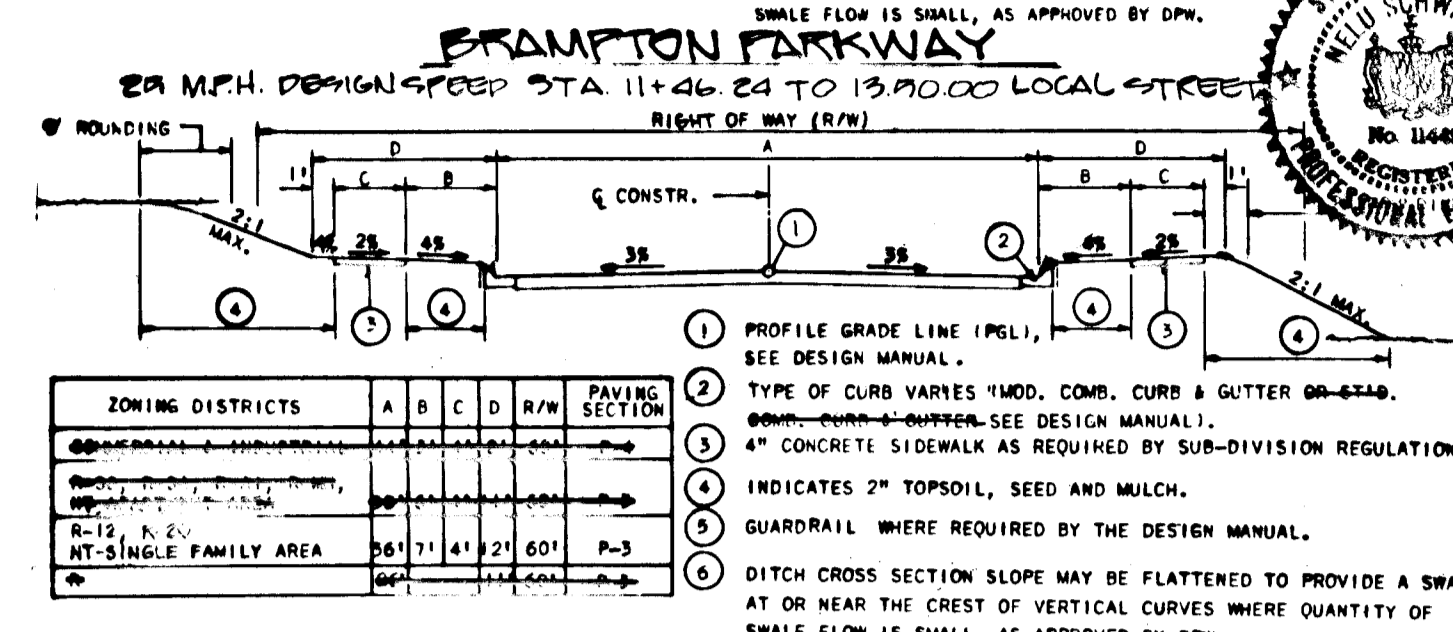
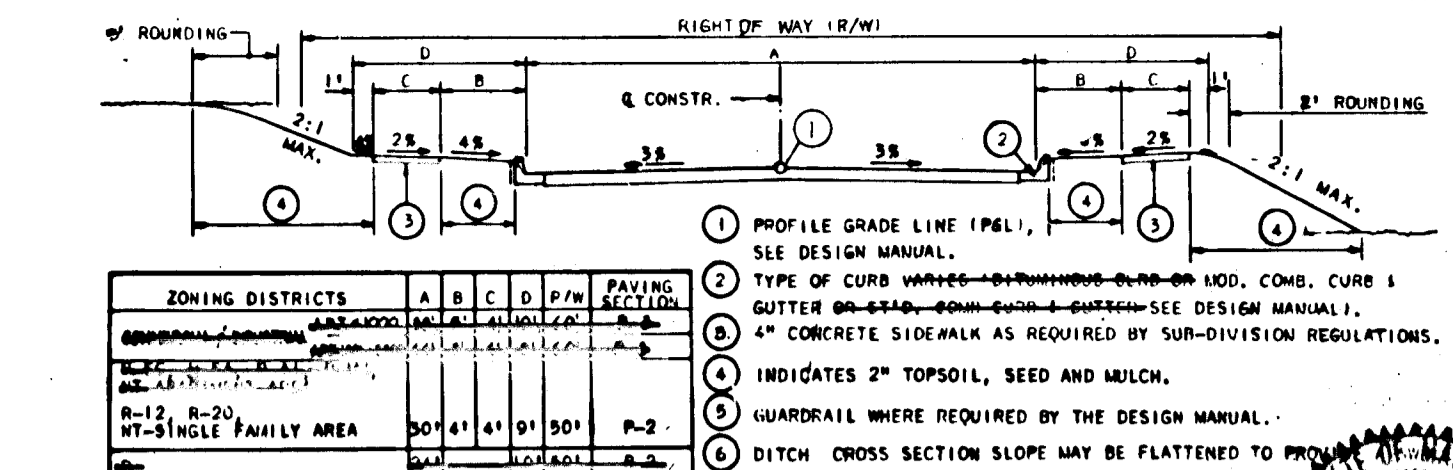
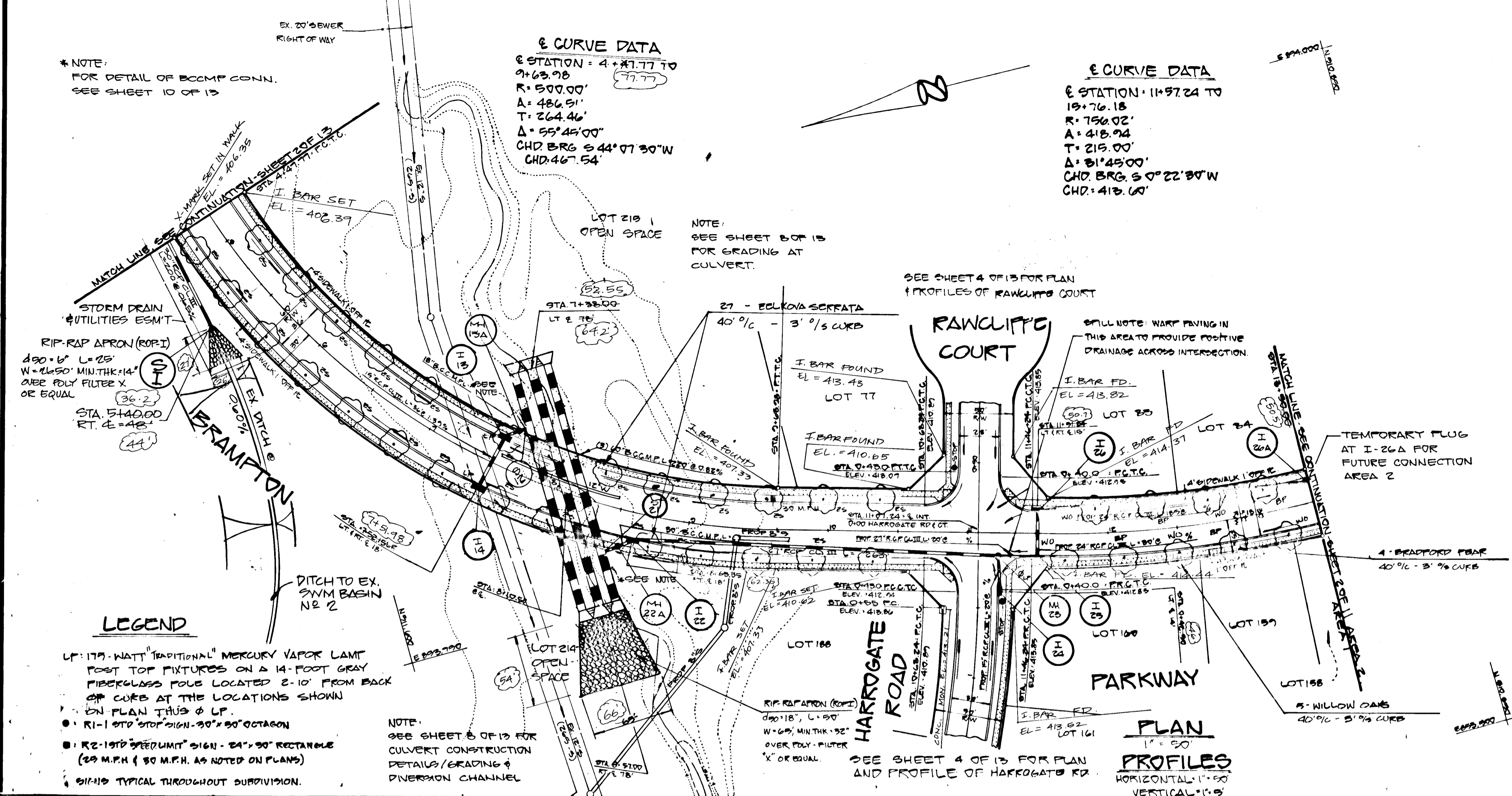
NOTE:  
SEE SHEET 6 OF 13  
FOR GRADING AT  
CULVERT.

SEE SHEET 4 OF 13 FOR PLAN  
& PROFILES OF HARROGATE COURT

STORM DRAIN  
UTILITIES ESMT  
RIP-RAP APRON (ROR)  
490' x 14' L x 25'  
W = 650' MIN. THK 14"  
OVER POLY FILTER X  
OR EQUAL

**LEGEND**  
 LF: 175-WATT TRADITIONAL MERCURY VAPOR LAMP  
 FOOT TOP FIXTURES ON A 14-FOOT GRAY  
 FIBERGLASS POLE LOCATED 2'-10" FROM BACK  
 OF CURB AT THE LOCATIONS SHOWN  
 ON PLAN THIS & LF.  
 R1-1 STD STOP SIGN - 30" x 30" OCTAGON  
 R2-1 STD SPEED LIMIT SIGN - 24" x 30" RECTANGLE  
 (20 M.P.H. @ 30 M.P.H. AS NOTED ON PLANS)  
 S1-10 TYPICAL THROUGHOUT SUBDIVISION.

NOTE:  
SEE SHEET 6 OF 13 FOR  
CULVERT CONSTRUCTION  
DETAILS / GRADING &  
DIVERSION CHANNEL



**ROAD AS-BUILT**  
 Karl F. Schmid 4-18-91  
 KARL F. SCHMID DATE  
 PROPERTY LINE SURVEYOR # 437  
 NOTE: REFER TO SHEET 6 OF 13  
 FOR STRUCTURE & PIPE SCHEDULES.

**DEVELOPER'S CERTIFICATE**  
 "I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, 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."  
 DATE: 3/26/87

**ENGINEER'S CERTIFICATE**  
 I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT."  
 DATE: 08/27/82

REVIEWED FOR: **HOWARD** S.C.D.  
 AND METS TECHNICAL REQUIREMENTS  
 DATE: 9-3-87

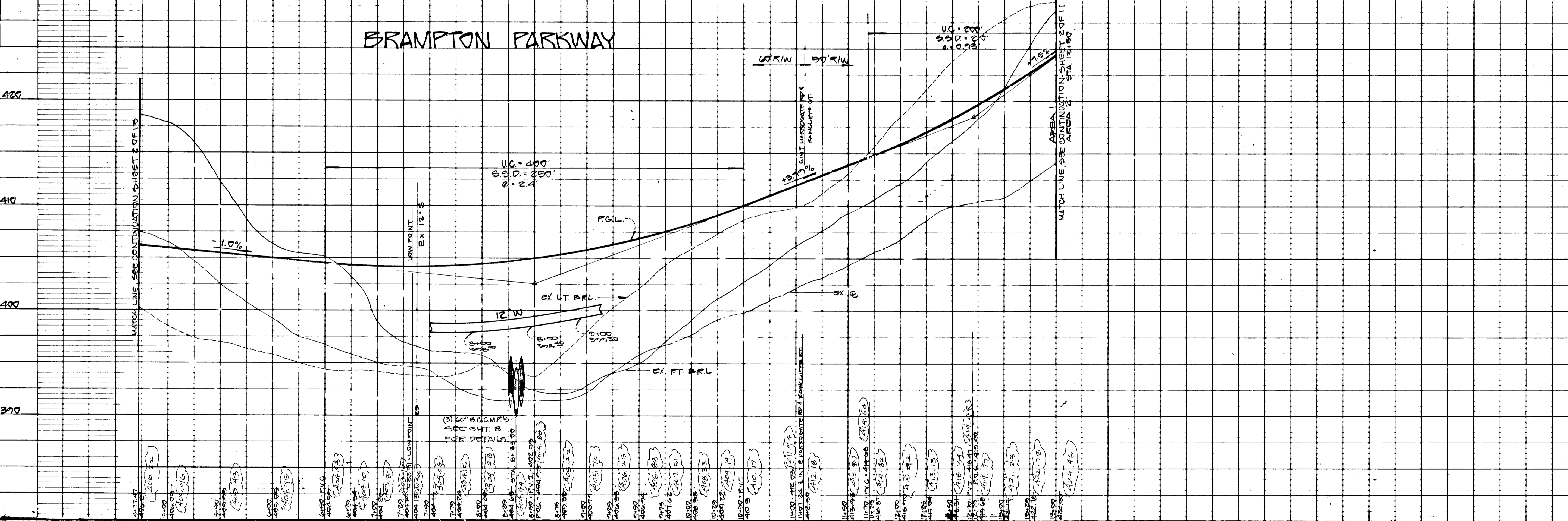
APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
 Chief, Land Development Division  
 DATE: 9-3-87

Chief, Bureau of Highways  
 DATE: 9-3-87

APPROVED: Howard County Office of Planning & Zoning  
 DIRECTOR  
 DATE: 9-10-87

NOTE: The contractor or developer shall contact the Construction Inspection/Survey Division 24 hours in advance of commencement of work at 702-7272.

**BRAMPTON PARKWAY**



**LEGEND**  
 FGL (E) -  
 EX. RIGHT OF WAY  
 15' B.R.L. LEFT  
 15' B.R.L. RIGHT

CONTRACT:  
 DELTA CORPORATION  
 101 CHESTNUT STREET  
 GAITHERSBURG, MD 20877  
 (301) 748-2918

NO.	REVISIONS	DATE
1	REVISED STORM DRAIN LOCATION	6-10-85

**DEVELOPMENT CONSULTANTS GROUP, INC.**  
 17904 GEORGIA AVENUE S-102  
 OLNEY, MARYLAND 20832  
 301-724-4570

SECTION 4 - AREA 1  
**"BRAMPTON HILLS"**  
 TAX MAP: 90 & 91, PARCEL: 90  
 ELLICOTT CITY (2ND) ELECTION DISTRICT  
 HOWARD COUNTY, MARYLAND

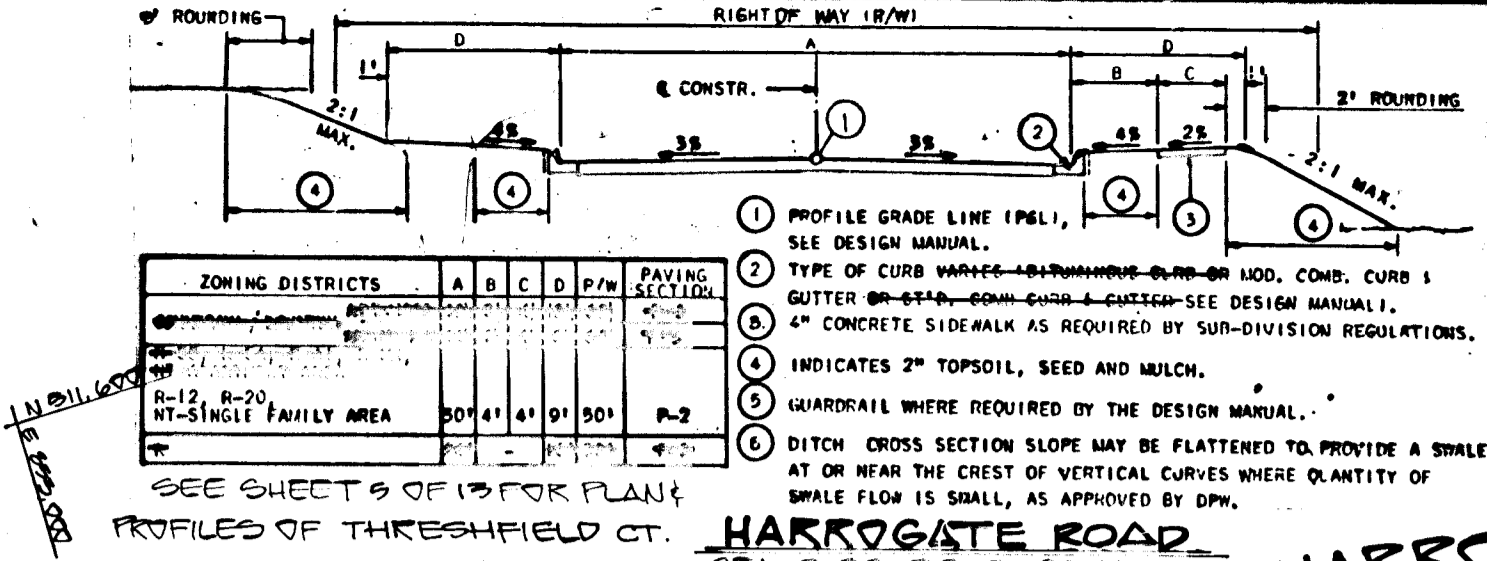
S-86-87  
 P-87-C7  
 F-87-172

DATE: MARCH, 1987  
 DRAWN: MIKE L.  
 CHECKED: M.L.S.  
 SCALE: AS SHOWN

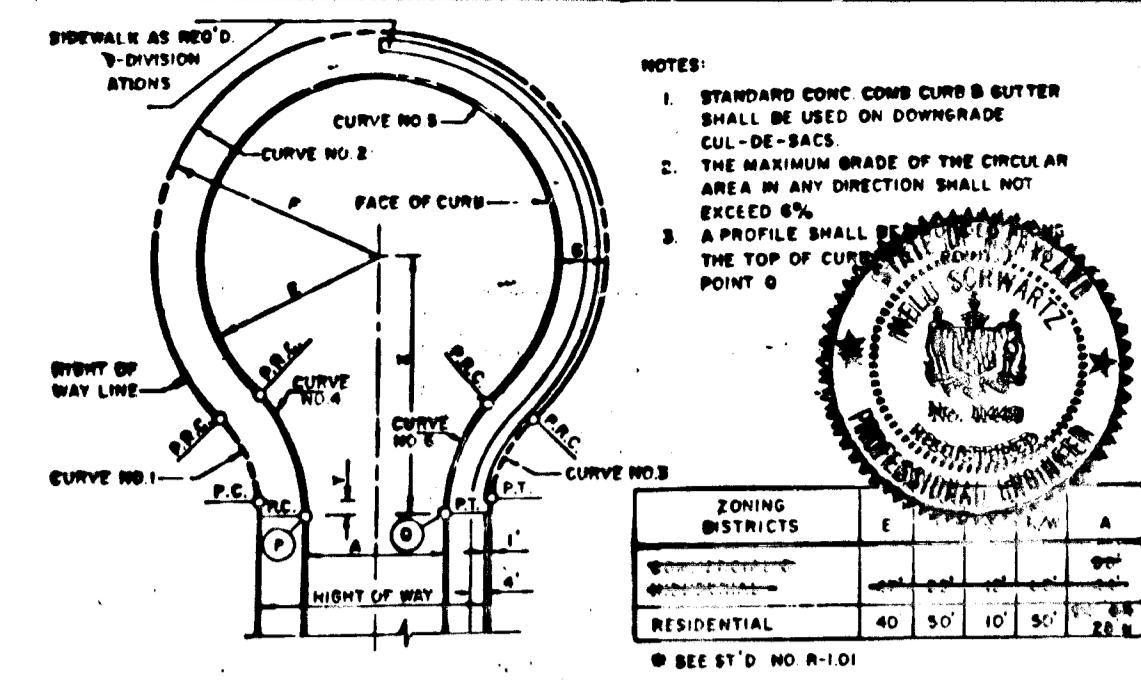
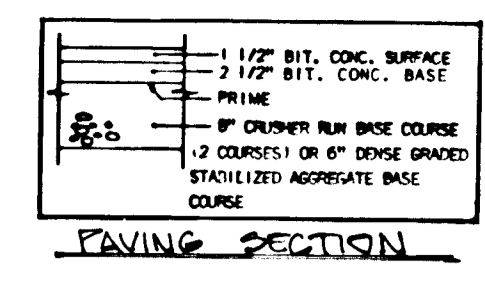
**AS-BUILT**  
 A-18-91

SHEET **3**  
 OF **13**  
 PROJECT NO. 169-92

F-87-172 P.C.G. INC.



**CURVE DATA**  
 STATION: 0+93.00  
 TO: 1+04.86  
 R: 613.00'  
 A: 77.86°  
 T: 50.04'  
 Δ: 0°18'12"  
 CHD. BRG. N 67°09'54"W  
 CHD.: 77.75'



**DEVELOPER'S CERTIFICATE**  
 I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, 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.  
 DATE: 12/12/87

**ENGINEER'S CERTIFICATE**  
 I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.  
 DATE: 08/23/87

REVIEWED FOR: HOWARD S.C.D.  
 AND MEETS TECHNICAL REQUIREMENTS  
 DATE: 9-3-87  
 U.S. SOIL CONSERVATION SERVICE

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.  
 DATE: 9/1/87  
 HOWARD S.C.D.

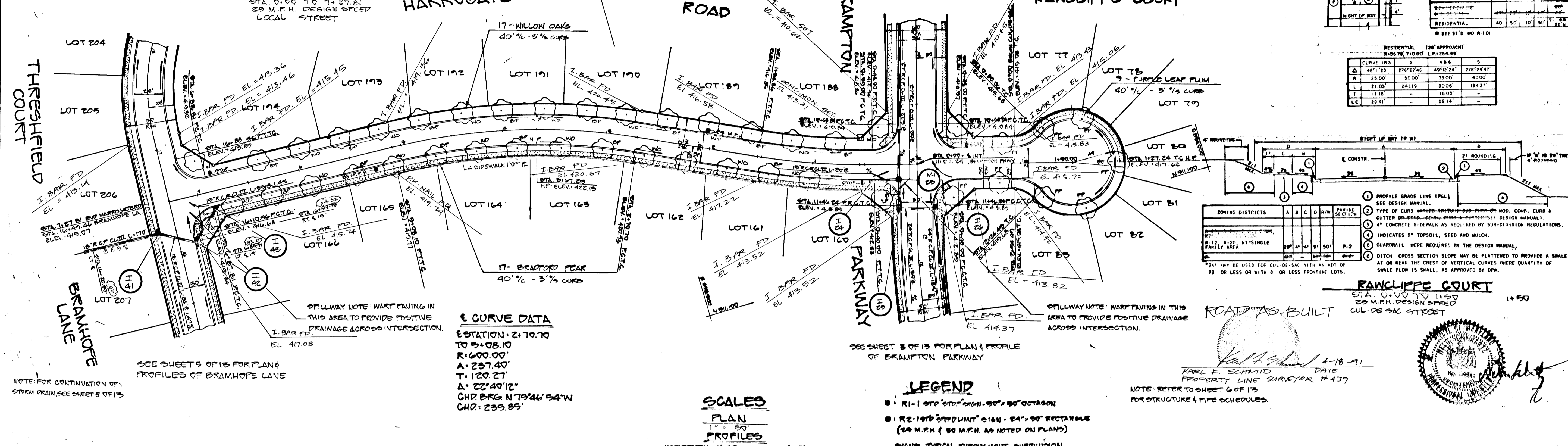
APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
 DATE: 9-7-87  
 Chief, Land Development Division

Chief, Bureau of Highways  
 DATE: 9-9-87  
 Chief, Bureau of Engineering

APPROVED: Howard County Office of Planning & Zoning  
 DATE: 9-10-87  
 Chief, Bureau of Land Development AND ZONING ADMINISTRATION

Following initial soil disturbance or redistribution, permanent or temporary stabilization shall be completed within:  
 1) Seven (7) calendar days for all perimeter sediment control structures, dikes, mulches, ditches, perimeter slopes and all slopes greater than 3:1; 2) Fourteen (14) days as to all other disturbed or graded areas on the project site.  
 NOTE: The contractor or developer shall contact the Construction Inspection/Survey Division 24 hours in advance of commencement of work at 792-7272.

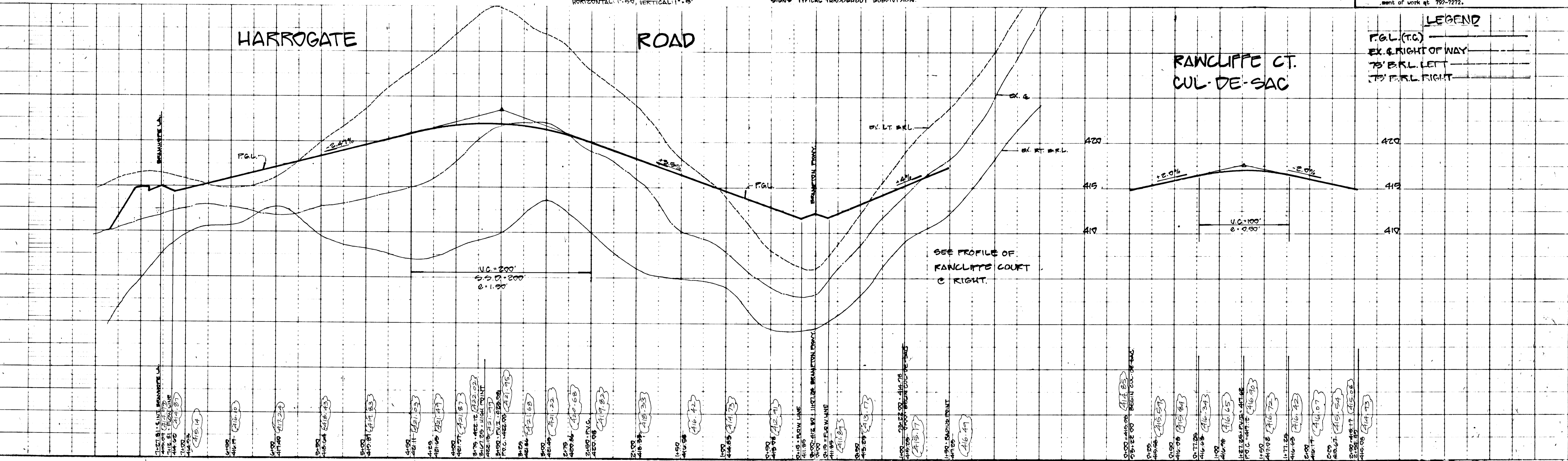
THRESHFIELD COURT  
 BRAMHOPE LANE



**CURVE DATA**  
 STATION: 2+70.70  
 TO: 3+08.10  
 R: 600.00'  
 A: 257.40°  
 T: 129.27'  
 Δ: 22°49'12"  
 CHD. BRG. N 79°46'54"W  
 CHD.: 235.85'

**LEGEND**  
 1. R1-1 1/2" 90° 90" OCTAGON  
 2. R2-1 1/2" 90° 90" 90" RECTANGLE (20 M.P.H. & 30 M.P.H. AS NOTED ON PLANS)  
 3. SIGN TYPICAL THROUGHOUT SUBDIVISION.

**LEGEND**  
 F.G.L. (T.C.)  
 EX. & RIGHT OF WAY  
 T.S. B.K.L. LEFT  
 T.S. B.K.L. RIGHT



CONTRACT: DELTA CORPORATION  
 101 CHESTNUT STREET  
 GAITHERSBURG, MD. 20877  
 (301) 748-2716

NO. \_\_\_\_\_ DATE \_\_\_\_\_

REVISIONS

**DEVELOPMENT CONSULTANTS GROUP, INC.**  
 17704 GEORGIA AVENUE S-102  
 OLNEY, MARYLAND, 20832  
 301-724-4570

GRADE ESTABLISHMENT AND STORM DRAIN PLAN  
 SECTION 4 - AREA 1  
**BRAMPTON HILLS**  
 TAX MAP: 20 & 21 PARCELS 20  
 ELLICOTT CITY (2ND) ELECTION DISTRICT  
 HOWARD COUNTY, MARYLAND

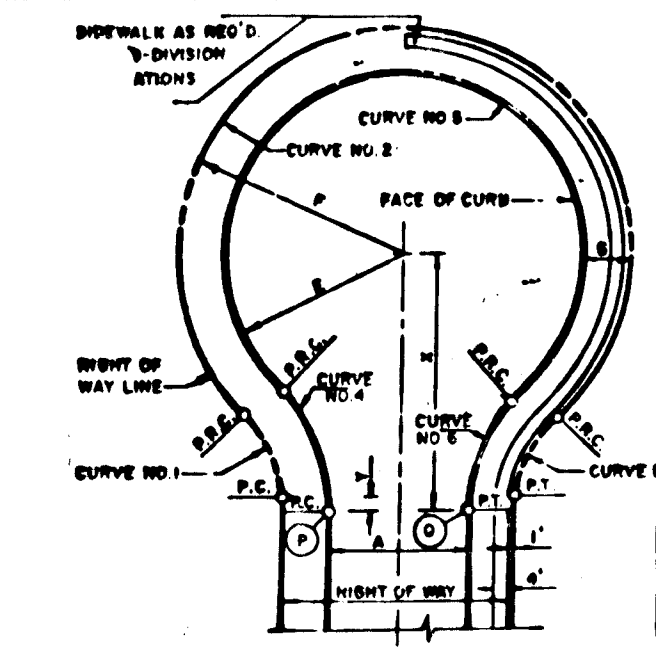
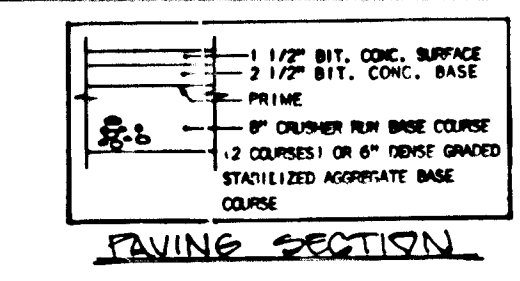
S-86-83  
 F-87-09  
 F-87-172

AS-BUILT  
 4-18-91

MARCH, 1987  
 DRAWN: MIKE L.  
 CHECKED: M. L. S.  
 SCALE: AS SHOWN  
 SHEET 4 OF 13  
 PROJECT NO. 160-02

F-87-172 V.C.G. 100-02

**CURVE DATA**  
 STATION 17+11.62  
 TO 18+09.31  
 R=200.00'  
 A=77.69°  
 T=47.85'  
 Δ=27°59'11"  
 CHD B.C.G. N 16°52'51"E  
 CHD 76.72'



**DEVELOPER'S CERTIFICATE**  
 I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, 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.  
 [Signature] DATE: March 4, 1987

**ENGINEER'S CERTIFICATE**  
 I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.  
 [Signature] DATE: 9/27/87

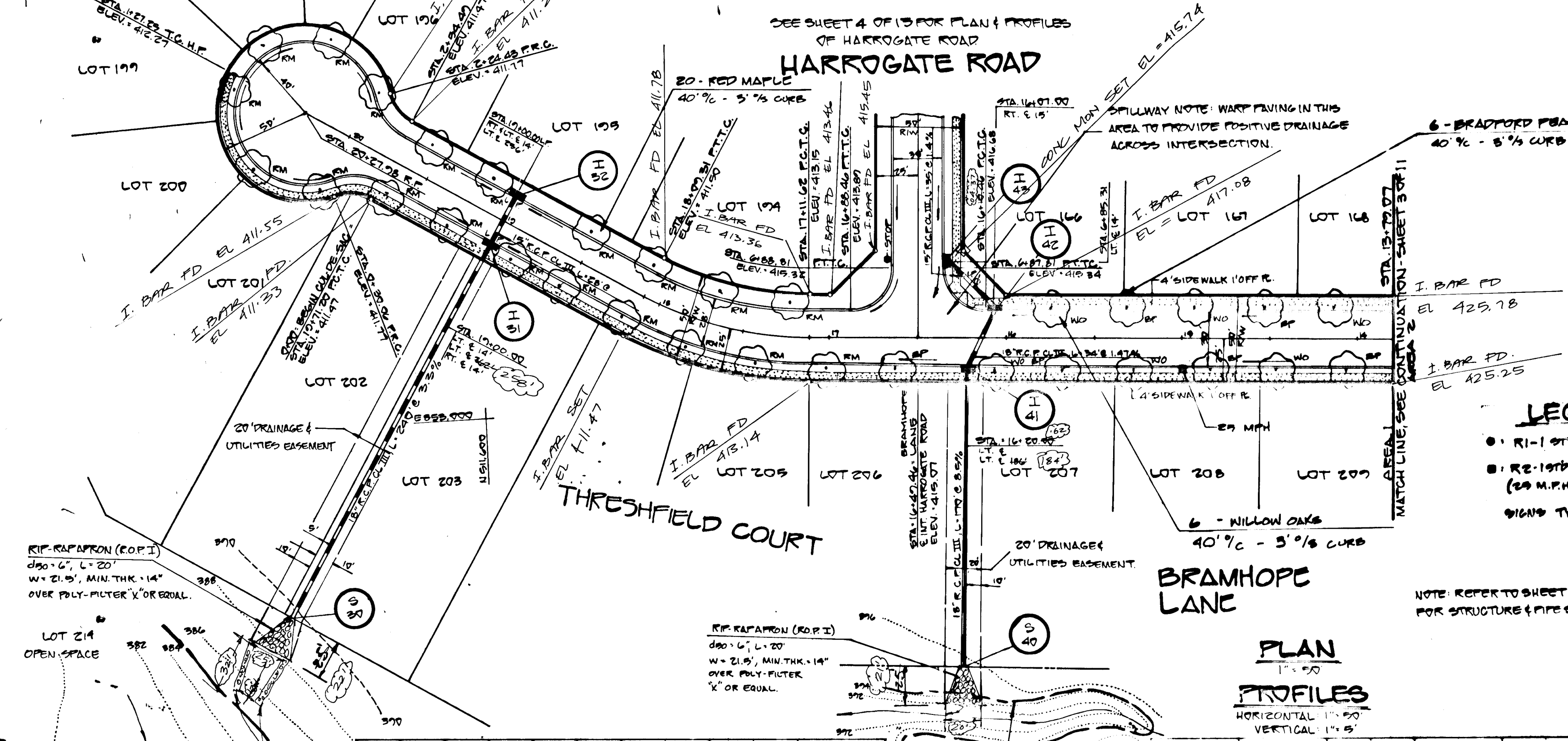
REVIEWED FOR: **HOWARD** S.C.D. NAME  
 AND MEETS TECHNICAL REQUIREMENTS.  
 [Signature] DATE: 9-3-87  
 U.S. SOIL CONSERVATION SERVICE

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.  
 [Signature] DATE: 9/18/87  
 HOWARD S.C.D.

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
 [Signature] DATE: 9-9-87  
 Chief, Land Development Division  
 [Signature] DATE: 9-1-87  
 Chief, Bureau of Highways  
 [Signature] DATE: 9-1-87  
 Chief, Bureau of Engineering

APPROVED: Howard County Office of Planning & Zoning  
 [Signature] DATE: 9-10-87  
 CHIEF DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION  
 Following initial soil disturbance or re-disturbance, permanent or temporary stabilization shall be completed within:  
 1) Seven (7) calendar days for all perimeter roads, existing structures, ditches, mulches, ditches, perimeter slopes and all slopes greater than 3:1, 2) fourteen (14) days as to all other disturbed or graded areas on the project site.  
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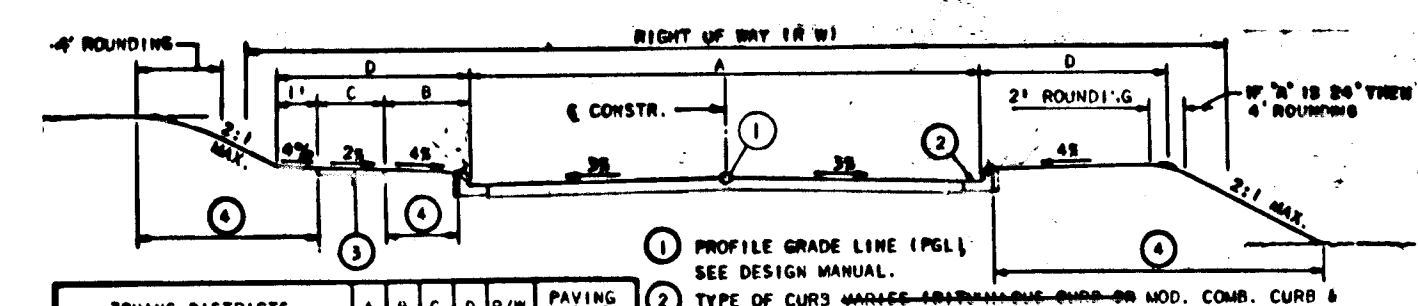
**ROAD AS-BUILT**  
 KARL [Signature] DATE: 4-18-91  
 PROFESSIONAL ENGINEER #439



**LEGEND**  
 1. R1-1 STD STOP SIGN - 30" x 30" OCTAGON  
 2. R2-1 STD STOP SIGN - 24" x 30" RECTANGLE (20 M.P.H. & 30 M.P.H. AS NOTED ON PLANS)  
 SIGNS TYPICAL THROUGHOUT SUBDIVISION.  
 NOTE: REFER TO SHEET 6 OF 15 FOR STRUCTURE & PIPE SCHEDULES.

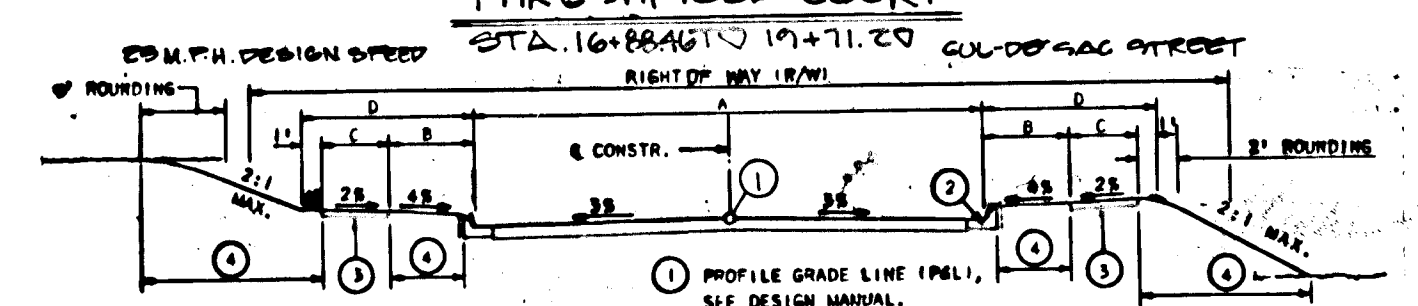
RESIDENTIAL (2ND APPROACH) SIGN TYPE OF L.P. 252-42

CURVE NO.	1	2	3	4
Δ	48°11'25"	274°22'46"	49°12'24"	216°24'47"
R	25.00'	50.00'	35.00'	40.00'
L	21.00'	241.19'	30.06'	194.37'
T	11.16'	18.03'	-	-
L.C.	20.41'	-	29.14'	-



THRESHFIELD COURT STA. 16+88.61 TO 17+71.29 CUL-DE-SAC STREET

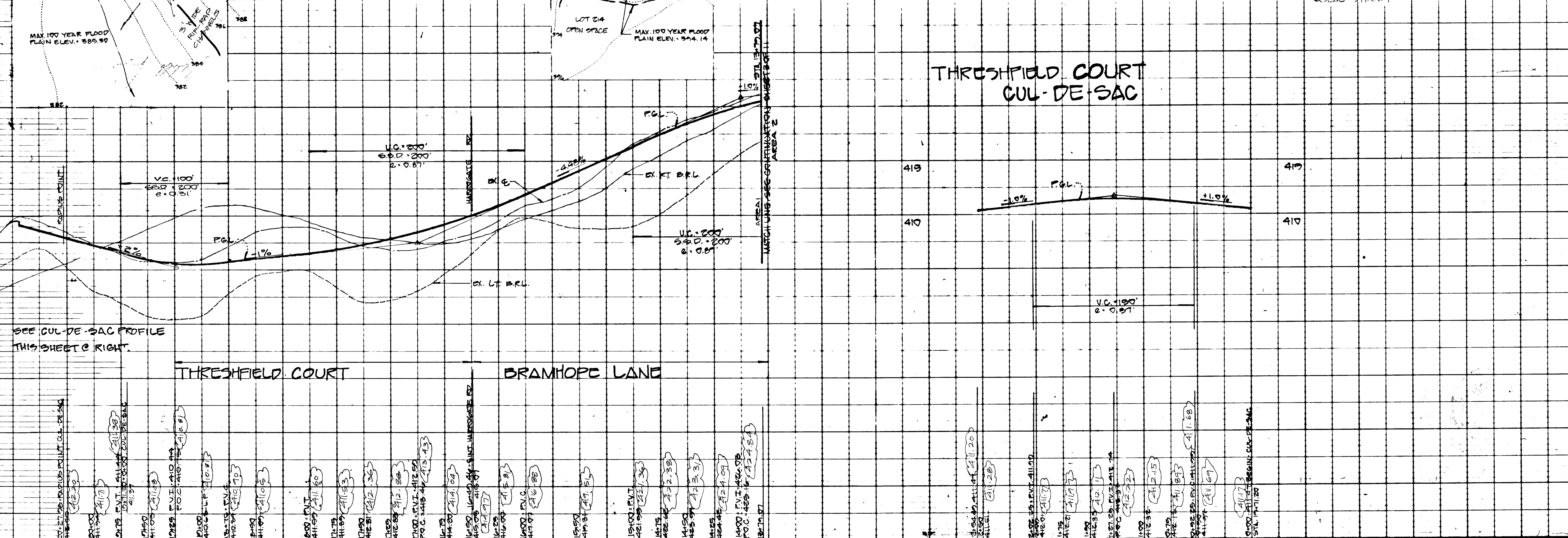
ZONING DISTRICTS	A	B	C	D	P/W	PAVING SECTION
RESIDENTIAL	1	1	1	1	1	P-2
FRONT YARD	20'	41'	51'	50'		
REAR YARD	20'	41'	51'	50'		
MIN. FRONT SETBACK	20'	41'	51'	50'		
MIN. REAR SETBACK	20'	41'	51'	50'		



BRAMHOPE LANE STA. 9+00 TO 10+19.46 LOCAL STREET

ZONING DISTRICTS	A	B	C	D	P/W	PAVING SECTION
RESIDENTIAL	1	1	1	1	1	P-2
FRONT YARD	20'	41'	51'	50'		
REAR YARD	20'	41'	51'	50'		
MIN. FRONT SETBACK	20'	41'	51'	50'		
MIN. REAR SETBACK	20'	41'	51'	50'		

**LEGEND**  
 PGL (E) - PROFILE GRADE LINE  
 EX. & RT. OF WAY - EXISTING & RIGHT OF WAY  
 T.S. B.R.L. - TOP SURFACE OF ROAD  
 T.S. P.R.L. - TOP SURFACE OF PAVEMENT



CONTRACT: CELTA CORPORATION, 101 CHESTNUT STREET, GAITHERSBURG, MD 20878, (301) 746-2710

NO.	REVISIONS	DATE

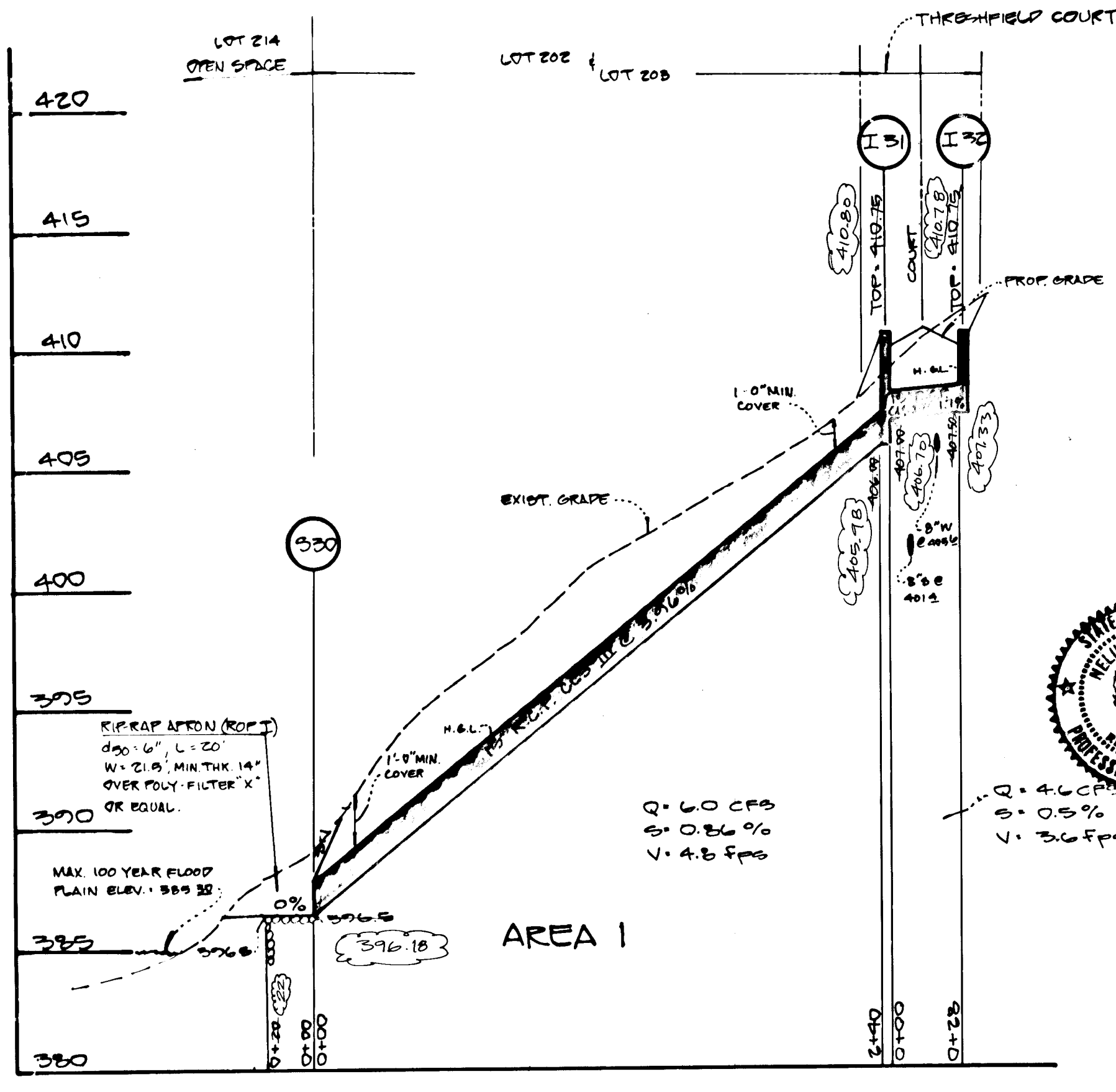
**DEVELOPMENT CONSULTANTS GROUP, INC.**  
 17904 GEORGIA AVENUE S-102  
 OLNEY, MARYLAND 20832  
 301-224-4570

GRADE ESTABLISHMENT AND ELEVATION PLAN  
 SECTION 4 - AREA 1  
**BRAMPTON HILLS**  
 TAX MAP: 304 31, PARCEL 30  
 ELICOTT CITY (2ND) ELECTION DISTRICT  
 HOWARD COUNTY, MARYLAND

5-86-87  
 P-87-09  
 F-87-172  
 MARCH 1987  
 DRAWN: MIKE L.  
 CHECKED: W.N.L.  
 SCALE: AS SHOWN  
**AS-BUILT** 4-18-91  
 OF 13  
 PROJECT NO. 160-02  
 F-87-172

STRUCTURE SCHEDULE						
NO.	TYPE	10' ELEVATION		INVERT ELEVATION		STANDARD
		HIGH	LOW	IN	OUT	
I-1	50' CONC. END SECTION	---	---	401.80	401.80	STD-3.01
I-2	A-9 INLET	407.85	407.85	405.24	405.14	STD-4.01
I-3	A-9 INLET	407.85	407.85	---	---	STD-4.01
MH-4	STD. PRECAST MANHOLE	411.18	---	405.50	405.40	G-5.15
S-10	60' METAL END SECTION	---	---	391.89	391.89	STD-3.01
S-12	18' PREFABRICATED C.S.P. SADDLE BRANCH	---	---	393.00	---	BY MANUFACTURING COMPANY
I-13	TYPE 'B' INLET	403.15	---	397.45	397.25	STD-4.22
I-14	TYPE A-10 DEPRESSED INLET	403.15	---	401.10	401.00	STD-4.02
S-21	20' PREFABRICATED C.S.P. SADDLE BRANCH	---	---	392.50	---	BY MANUFACTURING COMPANY
I-22	TYPE A-9 WITH DEFLECTOR INLET	408.50	408.21	408.04	399.54	STD-4.01 & STD-4.83
MH-23	STD. PRECAST MANHOLE	412.50	---	408.00	407.90	G-5.15
I-24	TYPE A-9 INLET WITH DEFLECTOR	412.50	412.50	408.00	407.90	STD-4.01 & STD-4.83
I-25	TYPE A-9 INLET WITH DEFLECTOR	412.50	412.50	408.00	407.90	STD-4.01 & STD-4.83
I-26	TYPE A-9 INLET WITH DEFLECTOR	412.50	412.50	408.00	407.90	STD-4.01 & STD-4.83
I-26A	TYPE A-9 INLET WITH DEFLECTOR	412.50	412.50	408.00	407.90	STD-4.01 & STD-4.83
I-27	TYPE A-10 INLET WITH DEFLECTOR	422.05	421.70	422.20	421.70	STD-4.02 & STD-4.83
I-28	TYPE DOUBLE 'D' COMB. INLET DEPRESSED PARALLEL	423.80	423.46	---	421.00	STD-4.34 & STD-4.81
I-29	TYPE DOUBLE 'D' COMB. INLET DEPRESSED PARALLEL	423.80	423.46	---	421.00	STD-4.34 & STD-4.81
I-29A	TYPE A-9 INLET WITH DEFLECTOR	423.80	423.46	---	421.00	STD-4.01 & STD-4.83
S-30	18' CONC. END SECTION	---	---	---	---	STD-3.01
I-31	TYPE A-9 DEPRESSED INLET	410.75	---	407.00	407.00	STD-4.01
I-32	TYPE A-9 DEPRESSED INLET	410.75	---	407.00	407.00	STD-4.01
S-40	18' CONC. END SECTION	---	---	---	---	STD-3.01
I-41	TYPE A-10 INLET	416.16	415.06	410.82	410.00	STD-4.02

STRUCTURE SCHEDULE						
NO.	TYPE	10' ELEVATION		INVERT ELEVATION		STANDARD
		HIGH	LOW	IN	OUT	
I-42	TYPE DOUBLE 'D' COMB. INLET DEPRESSED PARALLEL	416.75	416.60	411.70	411.20	STD-4.34 & STD-4.81
I-43	TYPE A-9 INLET WITH DEFLECTOR	419.46	419.54	---	412.00	STD-4.01 & STD-4.83
S-50	18' CONC. END SECTION	---	---	---	407.00	STD-3.01
I-51	TYPE A-9 INLET	427.94	427.87	423.64	423.37	STD-4.01
I-52	TYPE A-10 INLET	427.69	427.37	424.24	424.14	STD-4.02
I-53	TYPE A-9 INLET WITH DEFLECTOR	428.05	427.85	---	424.60	STD-4.01 & STD-4.83
S-60	18' CONC. END SECTION	---	---	---	422.00	STD-3.01
I-61	TYPE DOUBLE 'D' COMB. INLET DEPRESSED PARALLEL	440.06	439.70	436.00	429.00	STD-4.34 & STD-4.81
I-62	TYPE DOUBLE 'D' COMB. INLET DEPRESSED PARALLEL	440.06	439.70	---	436.45	STD-4.34 & STD-4.81
S-70	22' CONC. END SECTION	---	---	---	429.00	STD-3.01
MH-70A	STD. PRECAST MANHOLE	439.00	---	434.00	431.00	G-5.15
I-71	TYPE A-10 INLET DEPRESSED	432.85	---	426.00	422.50	STD-4.02
I-72	TYPE A-10 INLET WITH DEFLECTOR	426.19	426.34	424.00	423.50	STD-4.02 & STD-4.83
I-73	TYPE A-10 INLET WITH DEFLECTOR	426.69	426.03	421.00	421.77	STD-4.02 & STD-4.83
I-74	TYPE 'K' INLET	422.80	---	427.30	425.00	STD-4.12
I-75	TYPE A-10 INLET DEPRESSED	429.53	---	426.00	423.70	STD-4.02
I-76	TYPE A-9 INLET WITH DEFLECTOR	422.47	422.30	---	429.00	STD-4.01 & STD-4.83
MH-77	STD. PRECAST MANHOLE	425.80	---	421.00	421.40	G-5.15
I-78	TYPE A-9 INLET DEPRESSED	429.74	---	421.00	421.00	STD-4.01
MH-22A	BRICK MANHOLE	425.15	---	421.00	421.00	STD-6.5.01
MH-22A	BRICK MANHOLE	425.15	---	421.00	421.00	STD-6.5.02



PROFILE  
SCALE: HORIZONTAL: 1"=50'  
VERTICAL: 1"=5'

ROAD AS-BUILT

KARL F. SCHMID  
DATE: 4-18-91  
PROF. LINE SURVEYOR #439

Following initial soil disturbance or redistribution, permanent or temporary stabilization shall be completed within:  
1) Seven (7) calendar days for all perimeter sediment control structures, dikes, sumps, ditches, perimeter slopes and all slopes greater than 3:1, 2) Fourteen (14) days as to all other disturbed or graded areas on the project site.

NOTE: The contractor or developer shall contact the Construction Inspection/Survey Division 24 hours in advance of commencement of work at 792-7272.

DEVELOPER'S CERTIFICATE  
"I/VE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, 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 ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT."  
Mark V.P. March 15, 1987

ENGINEER'S CERTIFICATE  
"I/VE CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT."  
Nelo Schwartz 08/27/87  
ENGINEER - NELO SCHWARTZ

REVIEWED FOR HOWARD S.C.D. AND MEETS TECHNICAL REQUIREMENTS.  
James M. Allen 9-3-87  
US/ SOIL CONSERVATION SERVICE

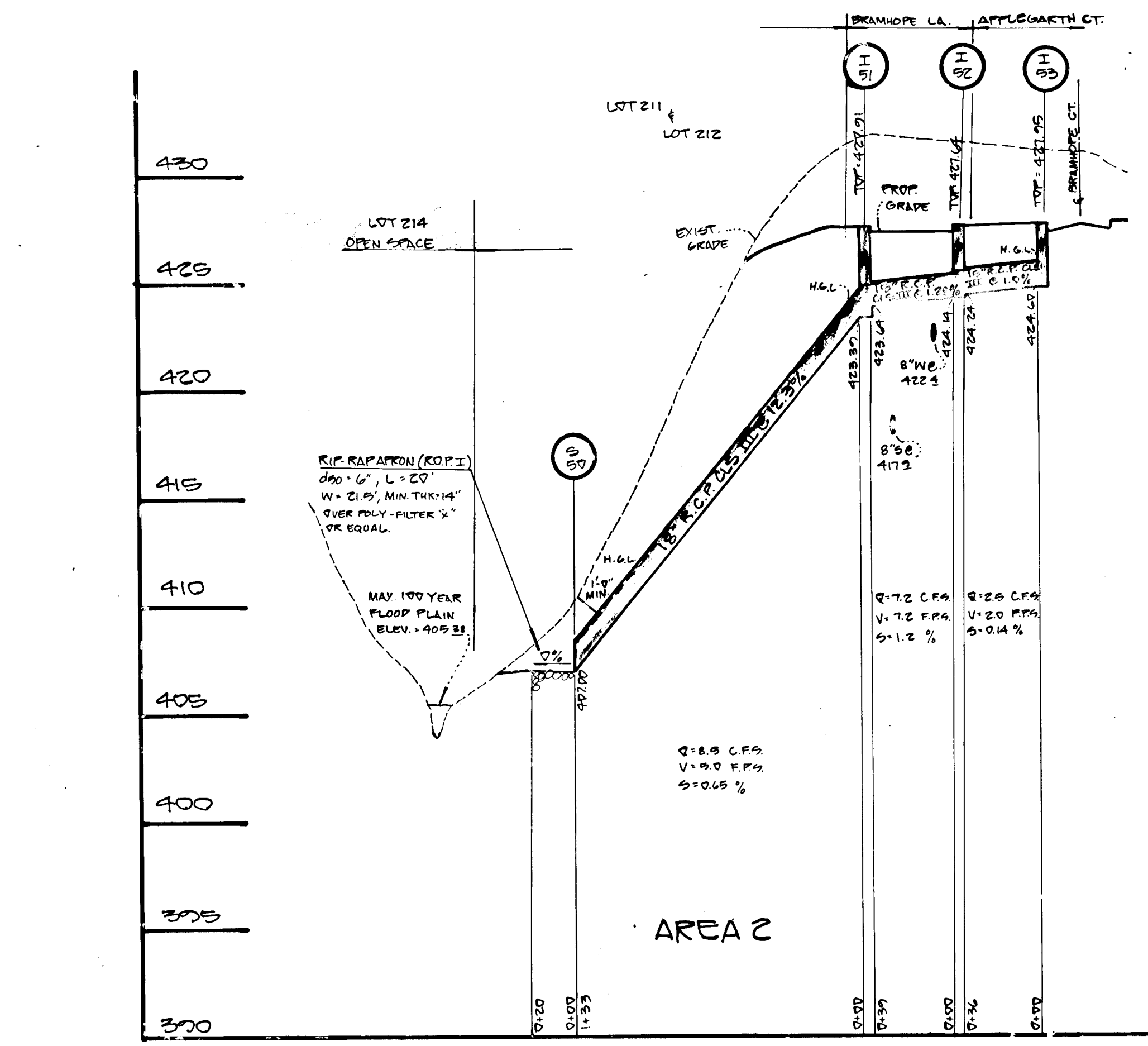
"THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT."  
Howard S.C.D. 9/3/87

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
Chief, Land Development Division 9-9-87  
Chief, Bureau of Highways  
Chief, Bureau of Engineering 9-1-87

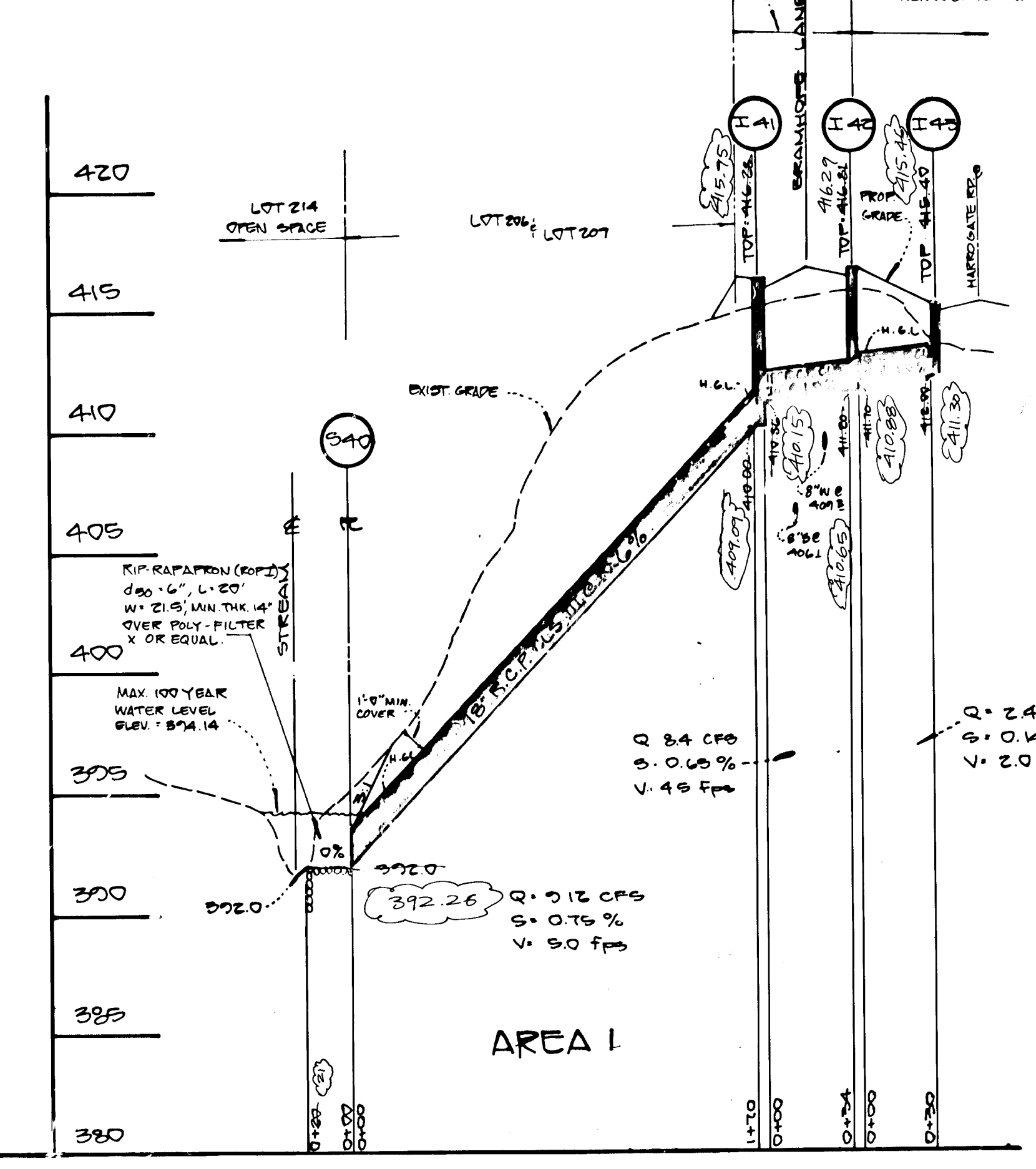
APPROVED: Howard County Office of Planning & Zoning  
DIRECTOR DATE 9-10-87  
CHIEF DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION

PIPE SCHEDULE				
SIZE	TYPE	AREA 1	AREA 2	AREA 3
18"	R.C.P. CL III	345 LF	189 LF	509 LF
18"	R.C.P. CL III	204 LF	815 LF	315 LF
24"	R.C.P. CL III	219 LF	85 LF	205 LF
27"	R.C.P. CL III	123 LF	---	206 LF
18"	B.C.C.M.P. 18 GA.	11 LF	---	---
30"	A.C.C.M.P. 16 GA.	7 LF	---	---
60"	B.C.C.M.P. 12 GA.	60 LF	---	---
30"	R.C.P. CL III	531.25 LF	---	---
18"	A.C.C.M.P.	3 LF	---	---

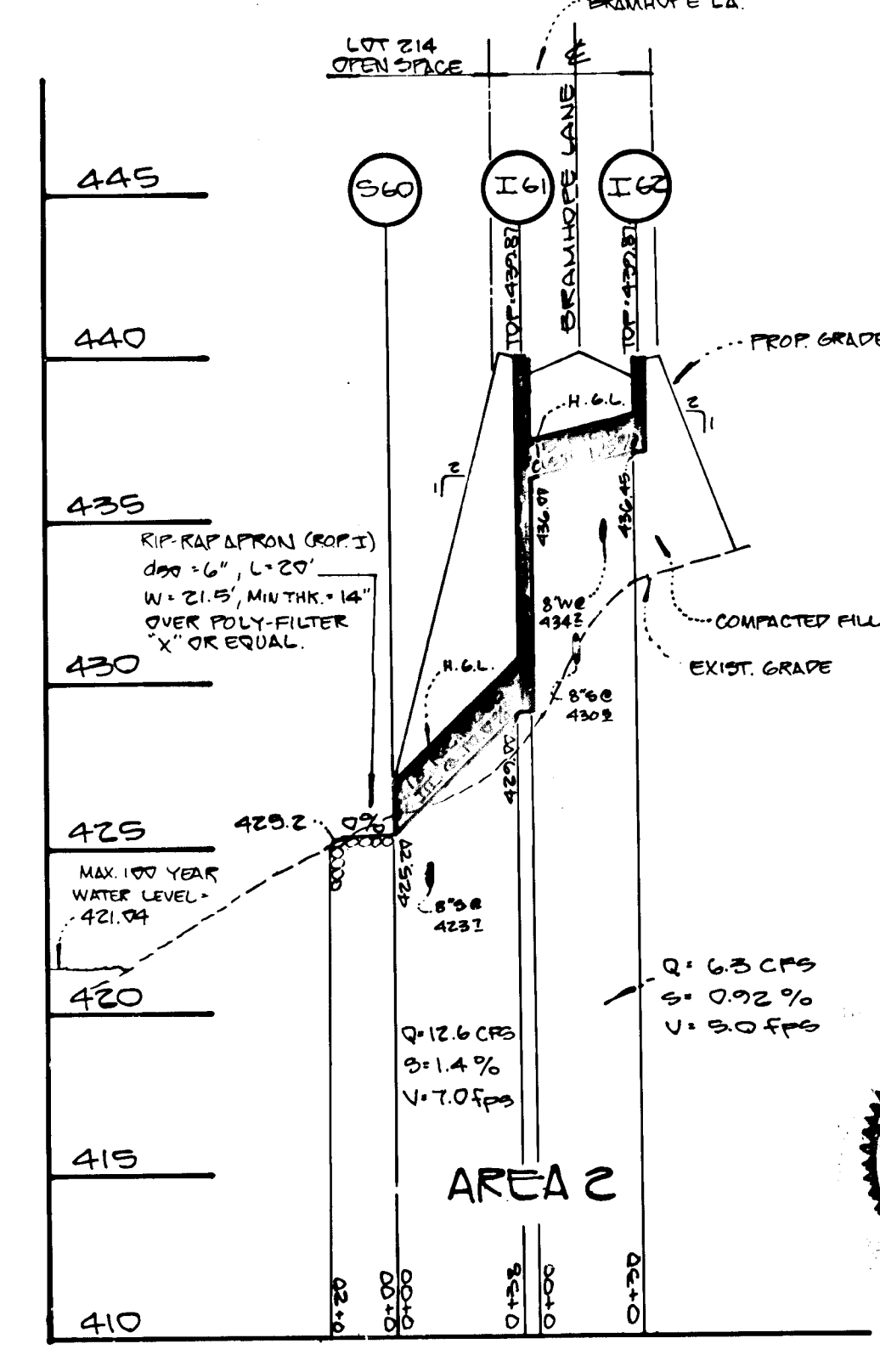
Professional Engineer Seal for Nelo Schwartz, No. 15448, State of Maryland.



PROFILE  
SCALE: HORIZONTAL: 1"=50'  
VERTICAL: 1"=5'



PROFILE  
SCALE: HORIZONTAL: 1"=50'  
VERTICAL: 1"=5'



PROFILE  
SCALE: HORIZONTAL: 1"=50'  
VERTICAL: 1"=5'

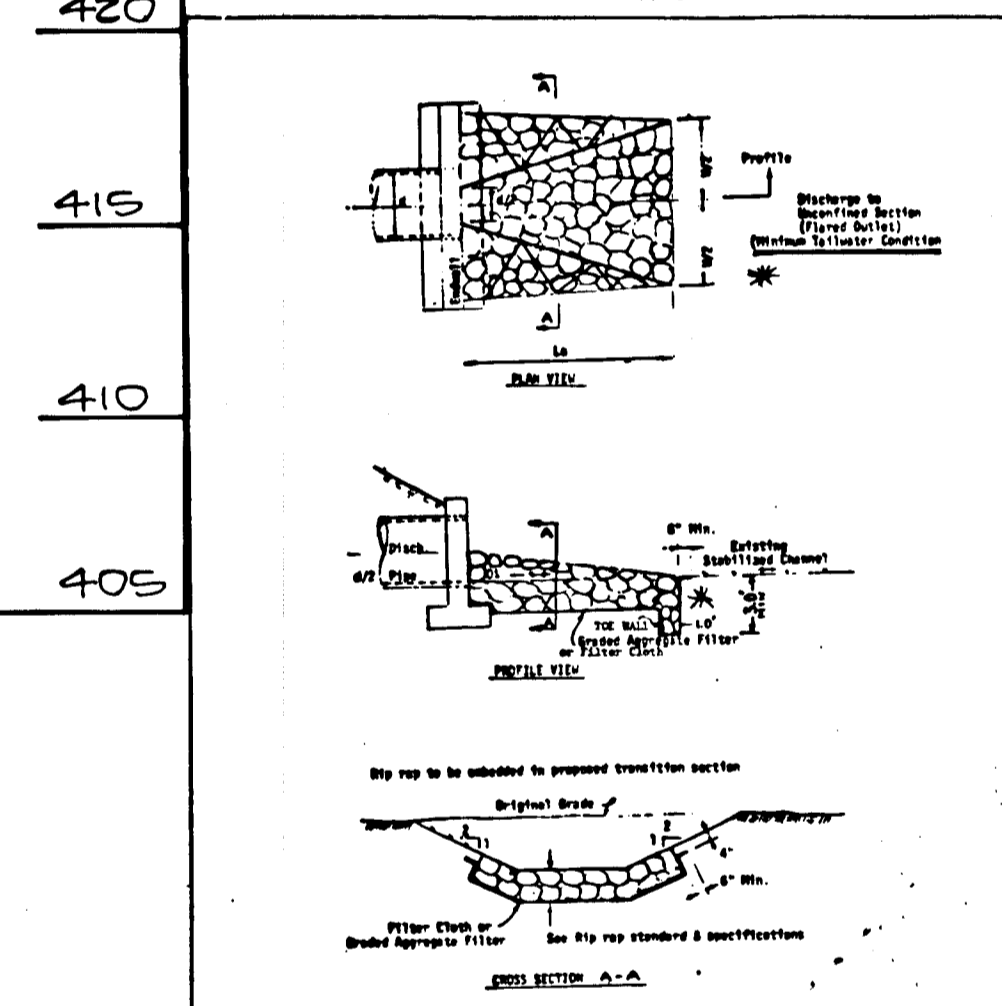
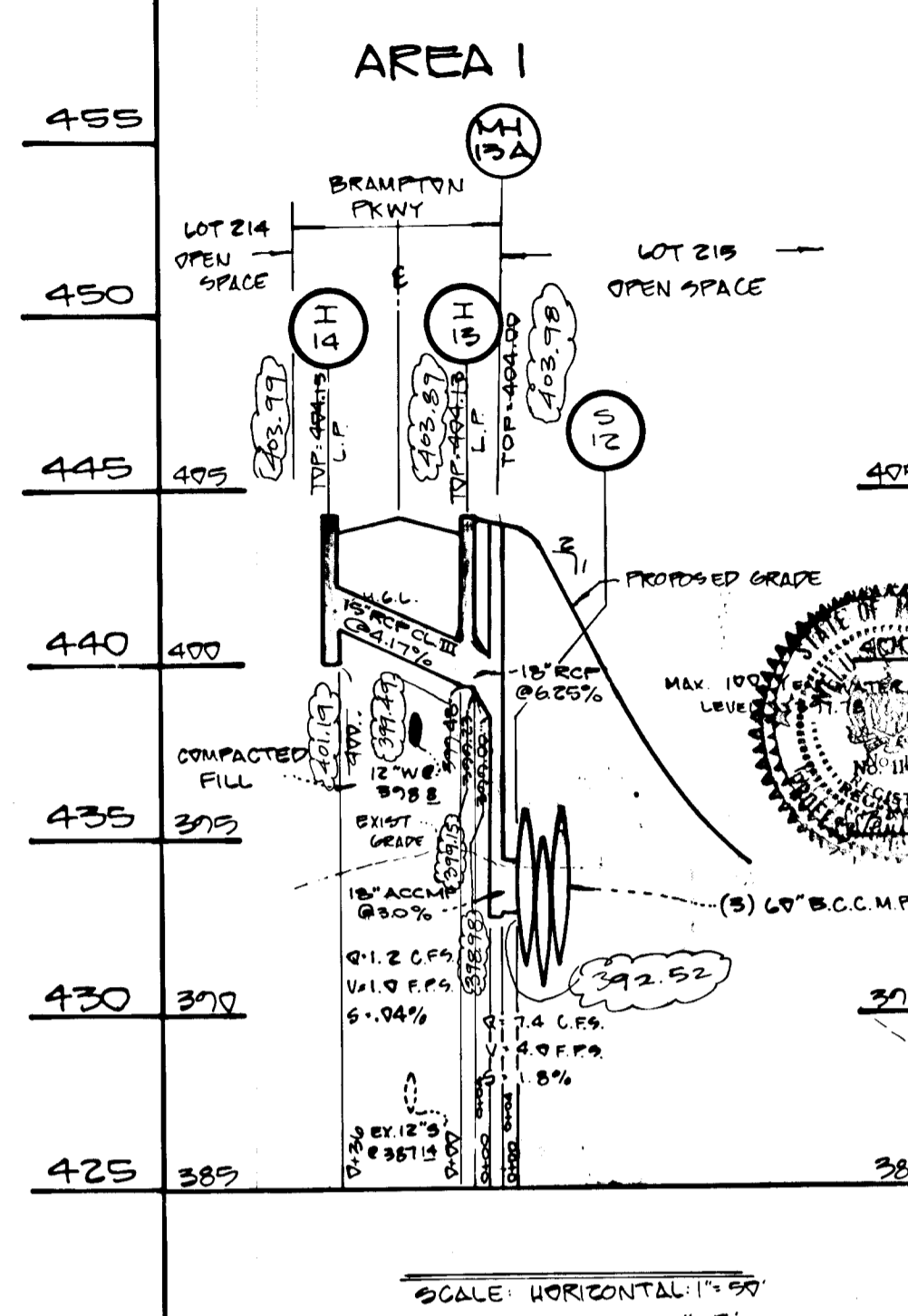
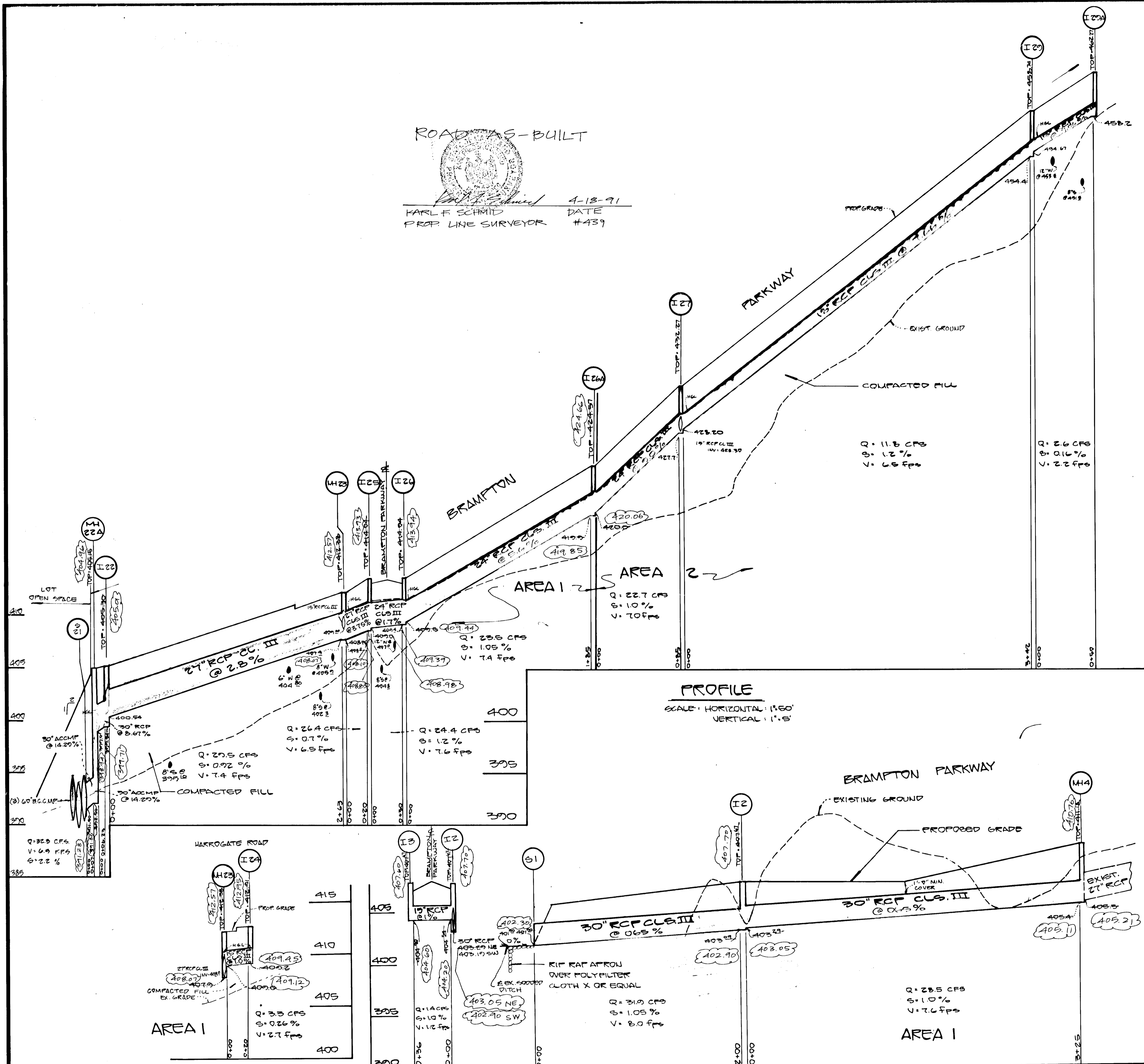
CONTRACT:	NO.	REVISIONS	DATE
DELTA CORPORATION 101 CHESTNUT STREET GAITHERSBURG, MD 20877 301-746-2018	1	REVISED PIPE & STRUCTURE SCHEDULE	6-10-85

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

STORM DRAIN PROFILES & DETAIL SHEET  
SECTION 4 - AREA 1  
"BRAMPTON HILLS"  
TAXMAP 30431, PARCEL 50  
ELLIOTT CITY (2ND) ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND  
S-86-83  
P-87-09  
F-87-172  
DATE: MARCH 1987  
DRAWN: M.N.L.  
CHECKED: M.L.S.  
SCALE: AS SHOWN  
PROJECT NO.: 1670-02  
Sheet 6 of 13  
AS-BUILT 4-18-91

F-87-172

ROAD AS-BUILT  
 KARL F. SCHMID  
 PROP. LINE SURVEYOR  
 DATE 4-13-91  
 #439



Following initial soil disturbance or redistribution, permanent or temporary stabilization shall be completed within:  
 1) Seven (7) calendar days for all perimeter sediment control structures, dikes, swales, ditches, perimeter slopes and all slopes greater than 3:1, 2) Fourteen (14) days as to all other disturbed or graded areas on the project site.

NOTE: The contractor or developer shall contact the Construction Inspection/Survey Division 24 hours in advance of commencement of work at 792-7272.

DEVELOPER'S CERTIFICATE  
 "I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, 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 ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT."  
 DATE 9/14/87

ENGINEER CERTIFICATE  
 "I/WE CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT."  
 ENGINEER - NELU SCHWARTZ DATE 08/27/87

REVIEWED FOR HOWARD S.C.D. AND MEETS TECHNICAL REQUIREMENTS.  
 US SOIL CONSERVATION SERVICE DATE 9-3-87

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
 Chief, Land Development Division DATE 9-9-87  
 Chief, Bureau of Highways DATE  
 Chief, Bureau of Engineering DATE 9-1-87

APPROVED: Howard County Office of Planning & Zoning  
 DIRECTOR: JOHN W. MESSERMAN DATE 9-10-87  
 CHIEF DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION

820

CONTRACT:  
 CELTA CORPORATION  
 101 CHESTNUT STREET  
 GAITHERSBURG, MD 20877  
 301-946-2916

NO.	REVISIONS	DATE
1	REVISED STORM DRAIN PROFILE	6-10-88

**DEVELOPMENT CONSULTANTS GROUP, INC.**  
 17904 GEORGIA AVENUE # 102  
 OLNEY, MARYLAND 20832  
 301-924-4570

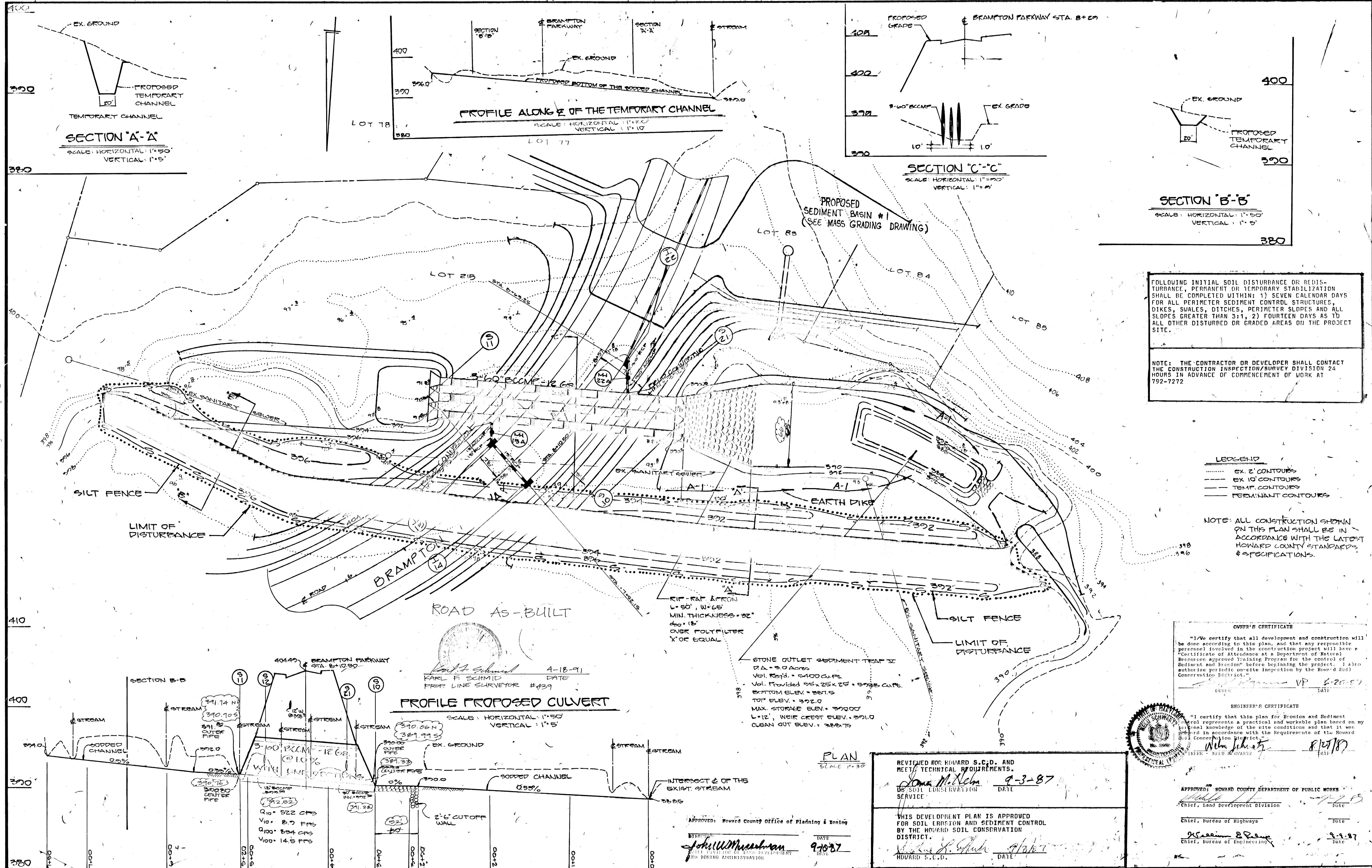
STORM DRAIN PROFILES & DETAIL SHEET  
 SECTION 4- AREA I  
 "BRAMPTON HILLS"  
 TAX MAP 30 & 31, PARCEL: 30  
 BULLOTT CITY (2ND) ELECTION DISTRICT  
 HOWARD COUNTY, MARYLAND

DATE MARCH, 1987  
 DRAWN M.N.L.  
 CHECKED M.L.S.  
 SCALE AS SHOWN

DATE 86-85  
 P-87-09  
 F-87-172

Sheet 7 of 13  
 PROJECT NO. 169-02  
 P.C.G. # 169-02

F-87-172



**SECTION "A-A"**  
SCALE: HORIZONTAL: 1"=50'  
VERTICAL: 1"=5'

**PROFILE ALONG E OF THE TEMPORARY CHANNEL**  
SCALE: HORIZONTAL: 1"=50'  
VERTICAL: 1"=10'

**SECTION "C-C"**  
SCALE: HORIZONTAL: 1"=50'  
VERTICAL: 1"=5'

**SECTION "B-B"**  
SCALE: HORIZONTAL: 1"=50'  
VERTICAL: 1"=5'

FOLLOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN: 1) SEVEN CALENDAR DAYS FOR ALL PERIMETER SEDIMENT CONTROL STRUCTURES, DIKES, SWALES, DITCHES, 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: THE CONTRACTOR OR DEVELOPER SHALL CONTACT THE CONSTRUCTION INSPECTION/SURVEY DIVISION 24 HOURS IN ADVANCE OF COMMENCEMENT OF WORK AT 792-7272

**LEGEND**

- EX. 2' CONTOURS
- EX. 10' CONTOURS
- TEMP. CONTOURS
- PERMANENT CONTOURS

NOTE: ALL CONSTRUCTION SHOWN ON THIS PLAN SHALL BE IN ACCORDANCE WITH THE LATEST HOWARD COUNTY STANDARDS & SPECIFICATIONS.

**PROFILE PROPOSED CULVERT**  
SCALE: HORIZONTAL: 1"=50'  
VERTICAL: 1"=5'

APPROVED: *Karl F. Schmid* 4-18-91  
KARL F. SCHMID DATE  
PROP. LINE SURVEYOR #439

RIP-RAP APRON  
L=50', W=65'  
MIN. THICKNESS = 22"  
400' 18"  
OVER FOLDFILTER  
X OF EQUAL

STONE OUTLET SEDIMENT TRAP  
D.A. = 5.0 Acres  
Vol. Ret'd. = 5400 Cu. Ft.  
Vol. Provided 96' x 25' x 25' = 5925 Cu. Ft.  
BOTTOM ELEV. = 387.5  
TOP ELEV. = 392.0  
MAX. STORAGE ELEV. = 390.0  
L=12', WEIR CREST ELEV. = 391.0  
CLEAN OUT ELEV. = 388.75

**PLAN**  
SCALE: 1"=30'

REVIEWED FOR HOWARD S.C.D. AND MEETS TECHNICAL REQUIREMENTS.  
*John McNeil* 9-3-87  
US SOIL CONSERVATION SERVICE DATE

APPROVED: Howard County Office of Planning & Zoning  
*John W. Muschman* 9-10-87  
DATE

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.  
*John W. Muschman* 9/10/87  
HOWARD S.C.D. DATE

**OWNER'S CERTIFICATE**

"I/we certify that all development and construction will be done according to this plan, and that any responsible personnel involved in the construction project will have a Certificate of Attendance at a Department of Natural Resource approved Training Program for the control of Sediment and Erosion" before beginning the project. I also authorize periodic on-site inspection by the Howard Soil Conservation District.  
*VP* 6-20-87  
DATE

**ENGINEER'S CERTIFICATE**

"I certify that this plan for Erosion and Sediment Control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the Requirements of the Howard Soil Conservation District."  
*Alvin Schatz* 8/17/87  
DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
*VP* 9-9-87  
Chief, Land Development Division DATE

Chief, Bureau of Highways DATE

*VP* 9-9-87  
Chief, Bureau of Engineering DATE

Owner/Developer:  
DELTA CORPORATION,  
101 CHESTNUT STREET  
GAITHERSBURG, MD. 20877  
301-948-2515

NO.	REVISIONS	DATE
1	REVISOR STORM DRAIN	6-10-88



**DEVELOPMENT CONSULTANTS GROUP, INC.**  
17904 GEORGIA AVENUE # 102  
OLNEY, MARYLAND 20832  
301-924-4570

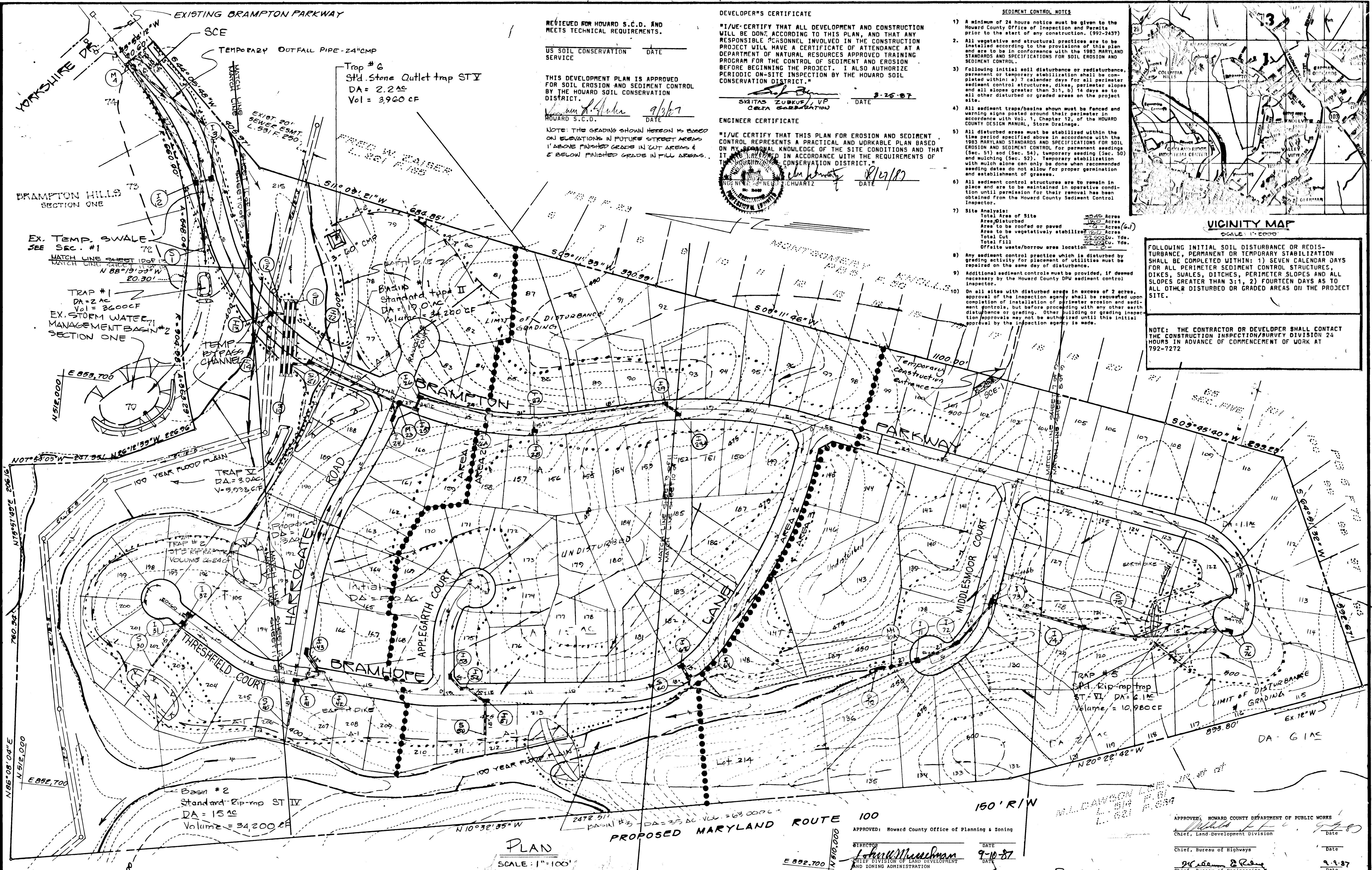
PLAN, PROFILE, SECTION A-A, B-B, C-C, AND CULVERT  
**BRAMPTON HILLS**  
TAX MAP 30 & 31 PARCEL 50  
ELL COTT CITY (2ND) ELECTION DISTRICT  
1 HOWARD COUNTY, MARYLAND

DATE: June 1987  
DRAWN: SS  
CHECKED: of 13  
SCALE: 1"=30'  
PROJECT NO.: 160-02

**AS-BUILT**  
4-18-91

F-87-172





REVIEWED FOR HOWARD S.C.D. AND MEETS TECHNICAL REQUIREMENTS.

US SOIL CONSERVATION SERVICE DATE

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

HOWARD S.C.D. DATE 9/16/87

NOTE: THE GRADING SHOWN HEREON IS BASED ON ELEVATIONS IN FUTURE STREET AREAS 1' ABOVE FINISHED GRADE IN CUT AREAS & 2' BELOW FINISHED GRADE IN FILL AREAS.

DEVELOPER'S CERTIFICATE

"I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, 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 ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT."

SKITAS ZURKUF, VP DELTA CORPORATION DATE 9-25-87

ENGINEER CERTIFICATE

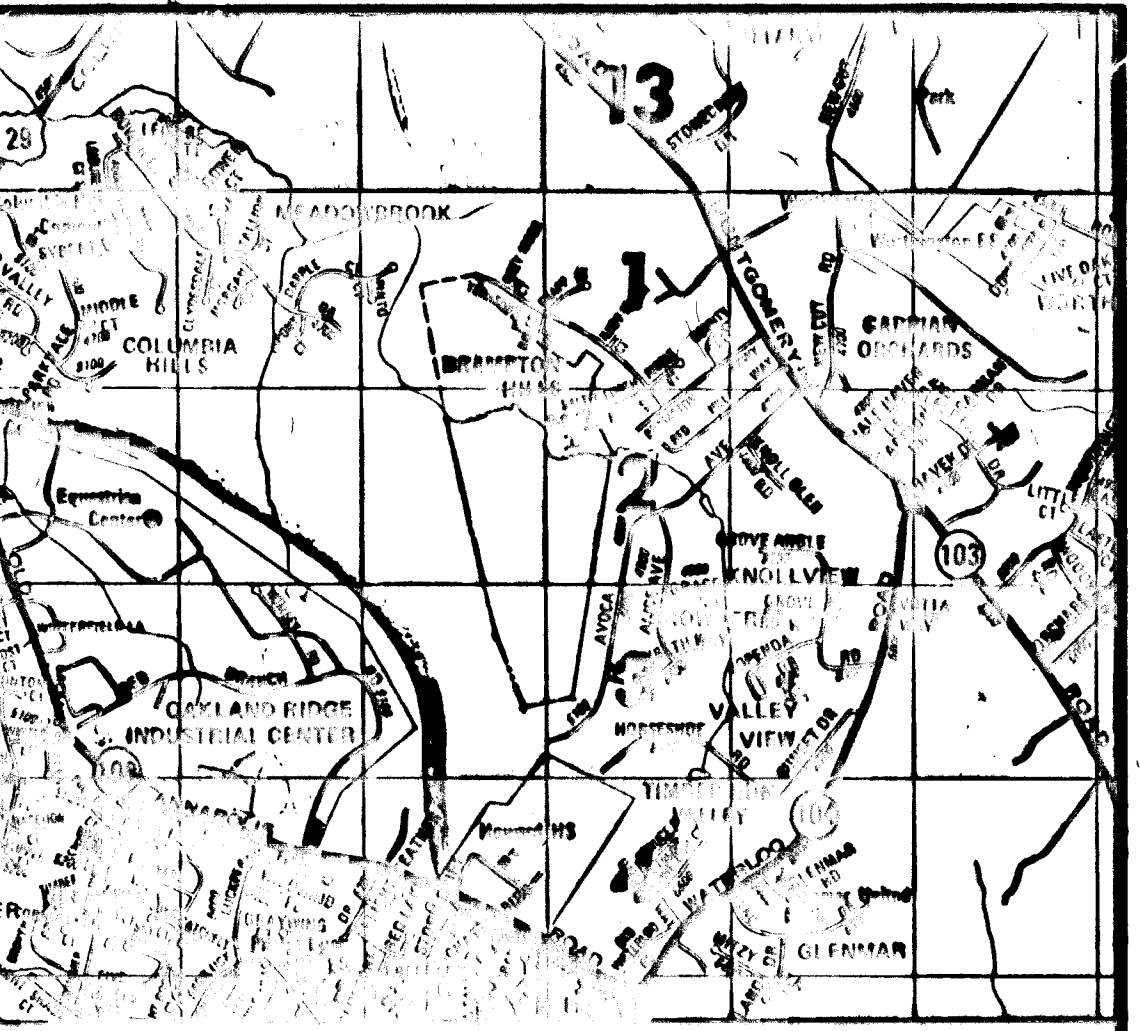
"I/WE CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT IS APPROVED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT."

NEEL S. SCHWARTZ DATE 9/16/87



SEDIMENT CONTROL NOTE

- 1) A minimum of 24 hours notice must be given to the Howard County Office of Inspection and Permits prior to the start of any construction. (992-2437)
- 2) All vegetative and structural practices are to be installed according to the provisions of this plan and are to be in conformance with the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.
- 3) Following initial soil disturbance or redisturbance, permanent or temporary stabilization shall be completed within: a) 7 calendar days for all perimeter sediment control structures, dikes, perimeter slopes and all slopes greater than 3:1, b) 14 days as to all other disturbed or graded areas on the project site.
- 4) All sediment traps/basins shown must be fenced and warning signs posted around their perimeter in accordance with Vol. 1, Chapter 12, of the HOWARD COUNTY DESIGN MANUAL, Storm Drainage.
- 5) All disturbed areas must be stabilized within the time period specified above in accordance with the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL. For permanent seedings (Sec. 51) and (Sec. 54), temporary seeding (Sec. 50) and mulching (Sec. 52). Temporary stabilization with mulch alone can only be done when recommended seed dates do not allow for proper germination and establishment of grasses.
- 6) All sediment control structures are to remain in place and are to be maintained in operative condition until permission for their removal has been obtained from the Howard County Sediment Control Inspector.
- 7) Site Analysis:
  - Total Area of Site: 3045 Acres
  - Area Disturbed: 120 Acres
  - Area to be roofed or paved: 70 Acres (6.1)
  - Area to be vegetatively stabilized: 180 Acres
  - Total Cut: 27500 Cu. Yds.
  - Total Fill: 27500 Cu. Yds.
  - Offsite waste/borrow area location: 0
- 8) Any sediment control practice which is disturbed by loading activity for placement of utilities must be repaired on the same day of disturbance.
- 9) Additional sediment controls must be provided, if deemed necessary by the Howard County DPW sediment control inspector.
- 10) On all sites with disturbed areas in excess of 2 acres, approval of the inspection agency shall be requested upon completion of installation of perimeter erosion and sediment controls, but before proceeding with any other earth disturbance or grading. Other building or grading inspection approvals may not be authorized until this initial approval by the inspection agency is made.



**VICINITY MAP**  
SCALE: 1"=2000'

FOLLOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN: 1) SEVEN CALENDAR DAYS FOR ALL PERIMETER SEDIMENT CONTROL STRUCTURES, DIKES, SWALES, DITCHES, 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: THE CONTRACTOR OR DEVELOPER SHALL CONTACT THE CONSTRUCTION INSPECTION/BURVEY DIVISION 24 HOURS IN ADVANCE OF COMMENCEMENT OF WORK AT 792-7272

EX. TEMP. SWALE SEE SEC. #1  
MATCH LINE SHEET 106 F  
MATCH LINE SHEET 107 F  
N 88° 06' 12" W 20.30'  
E 88° 06' 12" W 20.30'

TRAP #1  
DA = 2 AC  
Vol = 36,000 CF  
EX. STORM WATER MANAGEMENT BASIN #2 SECTION ONE

TRAP #2  
DA = 3.0 AC  
V = 5,928 CF

TRAP #3  
DA = 1.1 AC  
VOLUME = 2,624 CF

Basin #2  
Standard Rip-rap ST IV  
DA = 15 AC  
Volume = 34,200 CF

Basin #1  
Standard type II  
DA = 19.0 AC  
Volume = 34,200 CF

TRAP #5  
Std. Rip-rap trap ST-VI  
DA = 6.1 AC  
Volume = 10,980 CF

PROPOSED MARYLAND ROUTE 100

APPROVED: Howard County Office of Planning & Zoning

DIRECTOR: [Signature] DATE: 9-10-87  
CHIEF DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

Chief, Land-Development Division: [Signature] DATE: 9-9-87  
Chief, Bureau of Highways: [Signature] DATE: 9-9-87  
Chief, Bureau of Engineering: [Signature] DATE: 9-9-87

PLAN  
SCALE: 1"=100'

OVERALL PLAN

Owner/Developer:  
DELTA CORPORATION  
191 CHESTNUT STREET  
GAITHERSBURG, MD 20877  
(301) 746-2916

NO.	REVISIONS	DATE

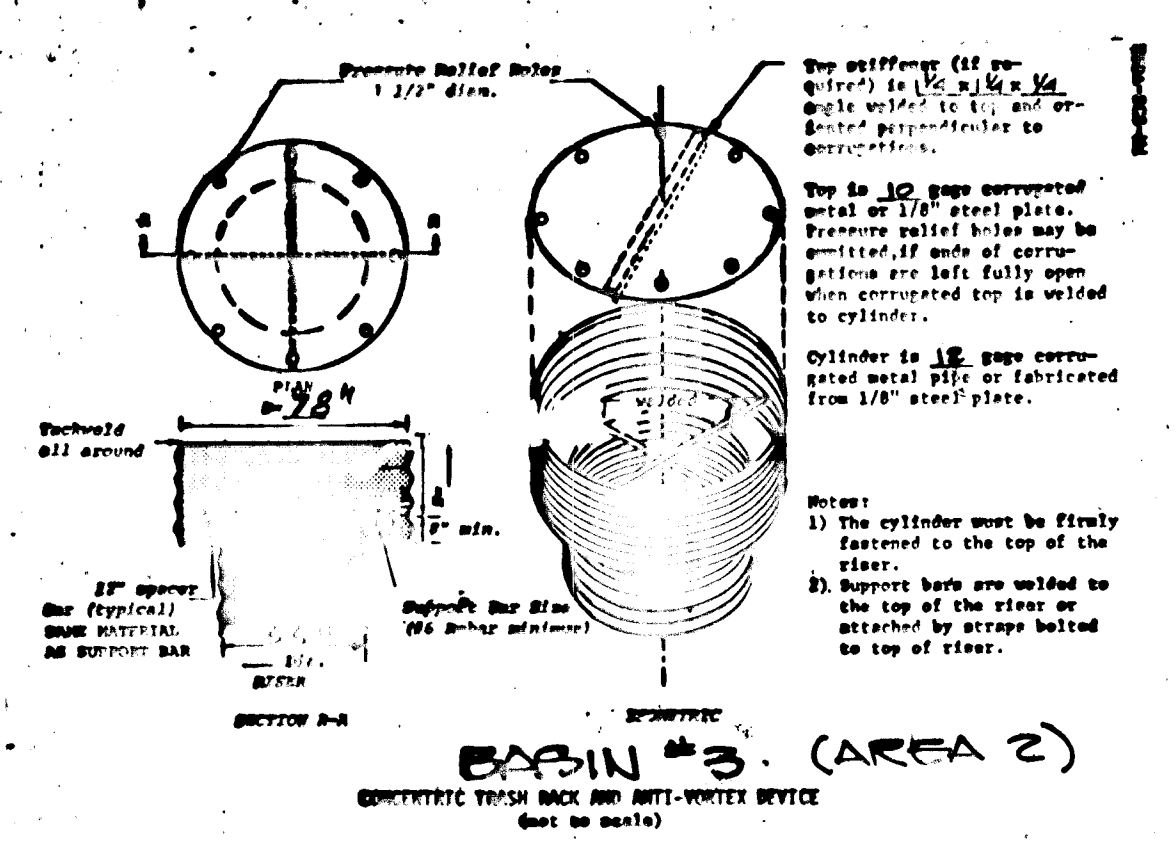
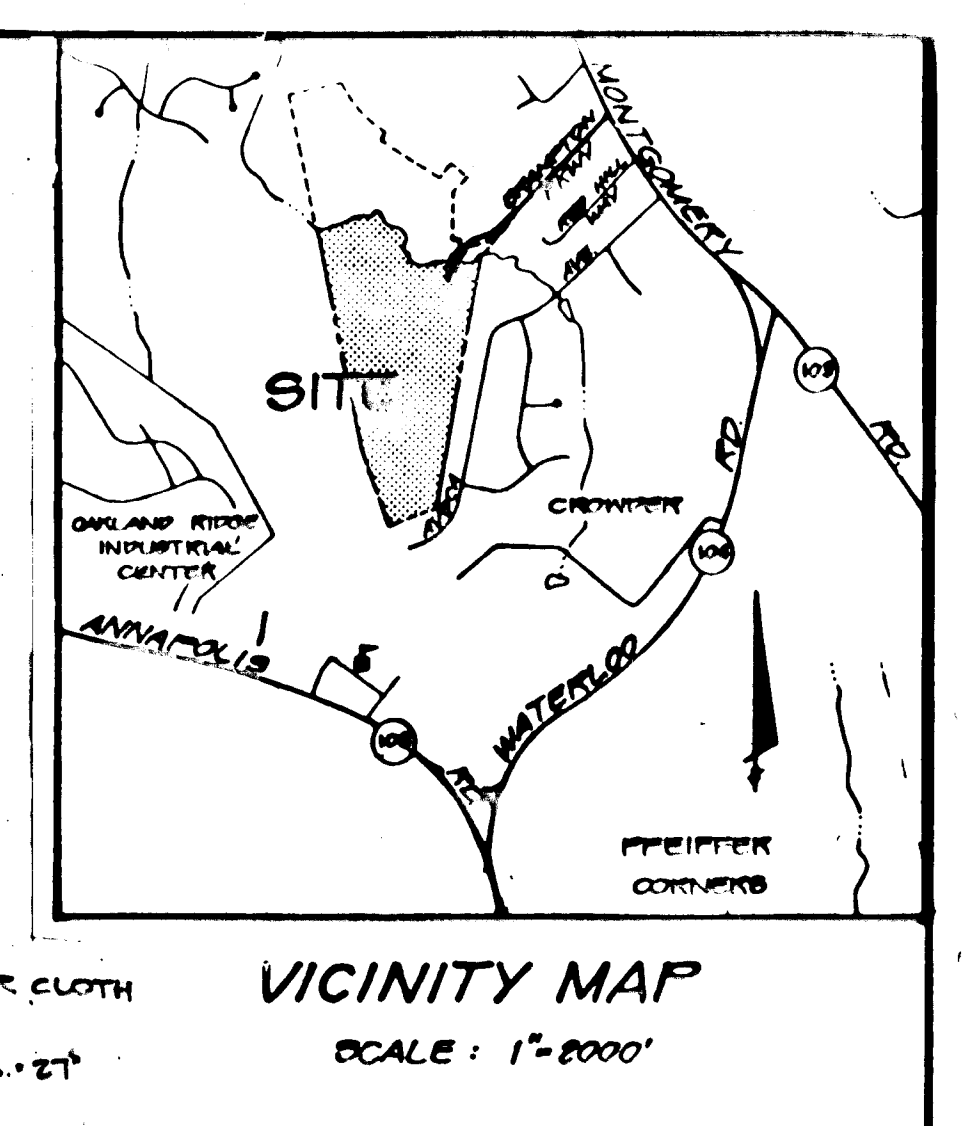
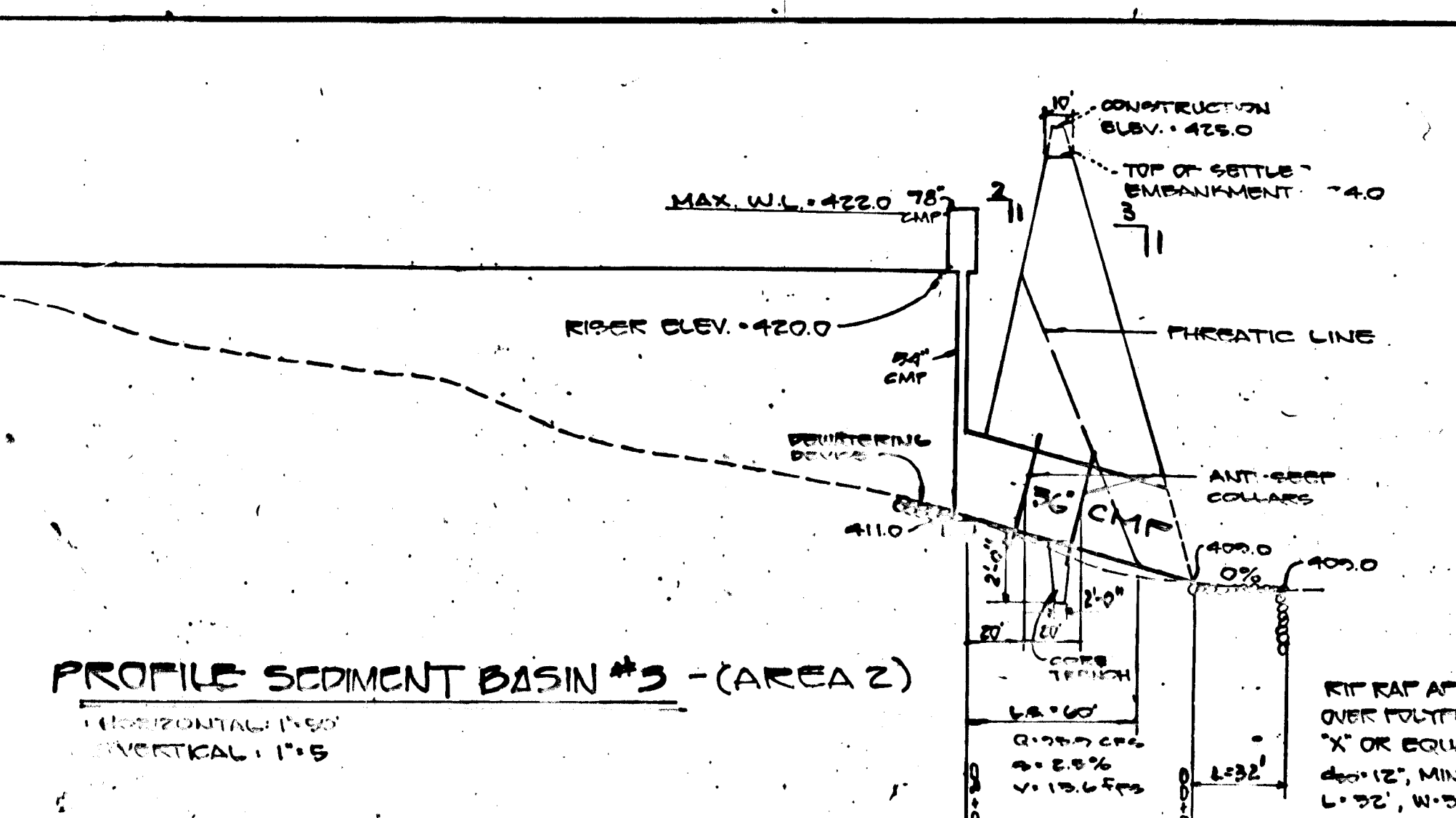
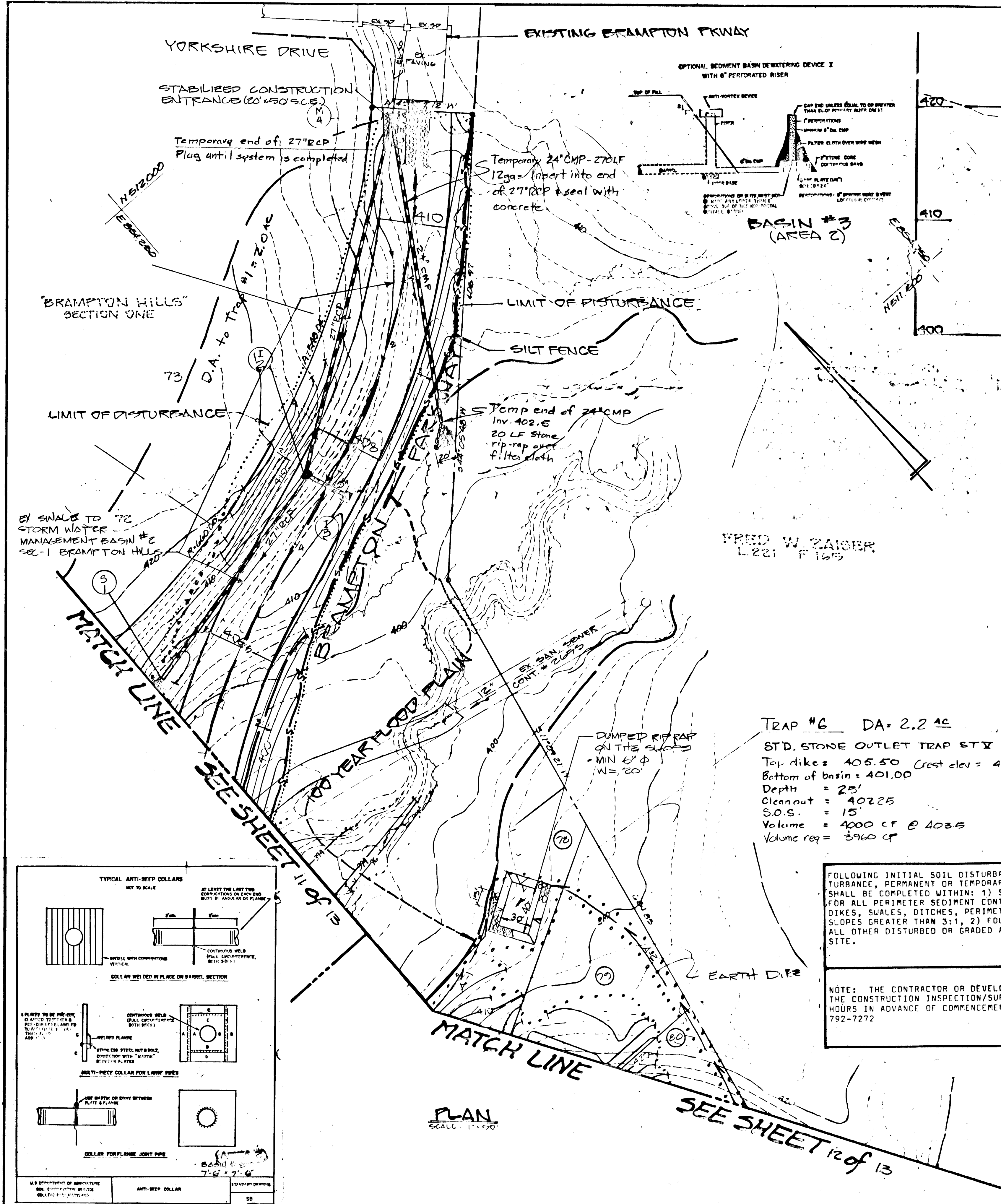


**DEVELOPMENT CONSULTANTS GROUP, INC.**

17904 GEORGIA AVENUE # 102  
OLNEY, MARYLAND 20832  
301-924-4570

SEDIMENT & EROSION CONTROL PLAN  
SECTION 4 - AREA 1  
**BRAMPTON HILLS**  
TAX MAP 50491 PARCEL 50  
ELLICOTT CITY (2ND) ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND

S-82-83	0411	Sheet
P-87-09	080 86	9
F-87-172	DRAWN M.A.L.	of 13
	CHECKED M.L.S.	PROJECT NO. 160-02
	SCALE 1"=100'	
		F-87-172

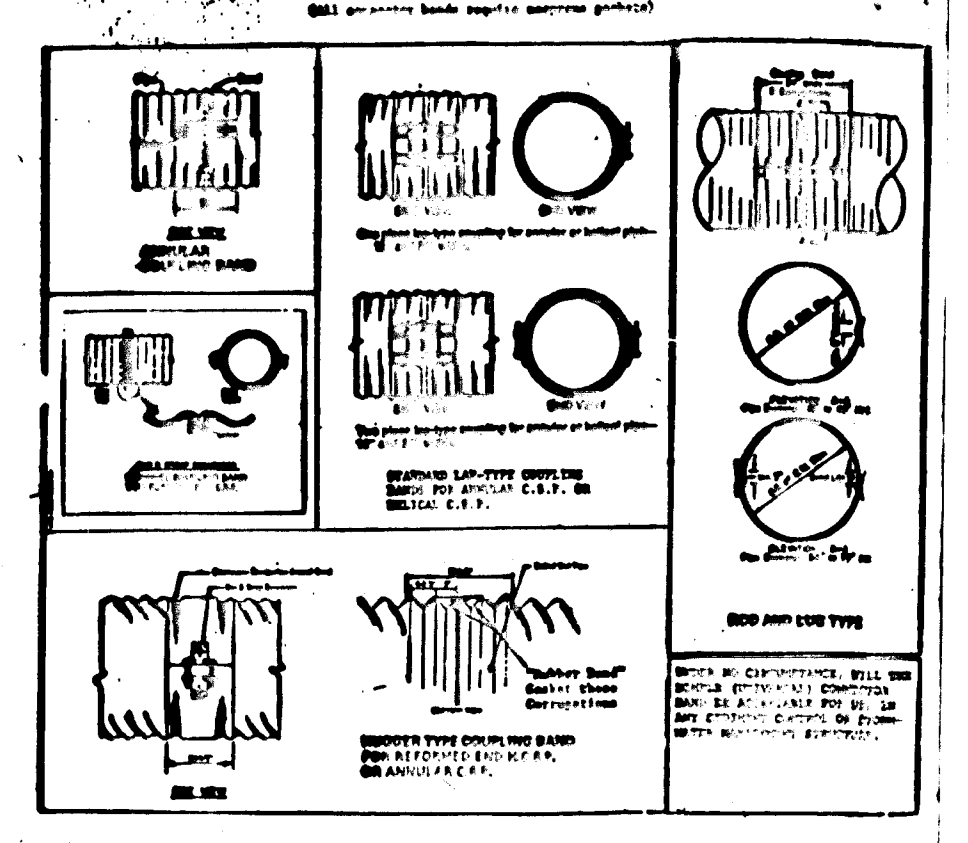


- CONSTRUCTION SEQUENCE - AREA 1
1. Obtain necessary permits. Aug. 87
  2. CLEAR & GRUB FOR INSTALLATION OF SEDIMENT CONTROL DEVICES ONLY. Aug. 87
  3. INSTALL ALL PERIMETER CONTROL DEVICES AS SHOWN. Aug. 87
  4. ALL PERIMETER CONTROL DEVICES APPROVED UNDER GRADING PLAN CP-87-11 MUST BE INSPECTED & CLEARED OF SEDIMENT PRIOR TO ANY FURTHER GRADING. Aug. 87
  5. GRADE TEMPORARY BYPASS CHANNEL, STARTING WITH THE AREA OUTSIDE OF THE EXIST. STREAM, & CONNECT BOTH ENDS TO THE STREAM AFTER THE BOTTOM OF THE CHANNEL ARE STABILIZED (STREAM STABILIZATION). Aug. 87
  6. CONSTRUCT TEMP. STORM DRAIN DIVERSION FROM M4 TO OUTFALL. SEE SHEET 10 OF 13. Sept. 87
  7. INSTALL TEMP. 60" CMP ALONG WITH FIELD CONNECTION TO I-95 & I-22. INSTALL RIP RAP OUTFALL, GRADE NEW CHANNEL TO THE CULVERTS. Sept. 87
  8. Clear for roadway Area 1 and part of Brampton Parkway through Area 2 up to Station 23+50. Sept. 87
  9. Grade Area 1 and Brampton Parkway from station point 28.50 to the culverts. Grade temporary bypass channel after the final channels to and from the culverts are stabilized. See Sediment Control note #3 on Sheet 9 of 13. Oct. 87
  10. Temporarily divert Brampton Parkway storm drain into Basin #1. Oct. 87
  11. Install water and sewer. Dec. 87
  12. Grade Brampton Parkway from the culvert Station Point 8+00 to 0+00. Nov. 87
  13. Install storm drain S1 to M4. Nov. 87
  14. Remove temporary bypass pipe. Nov. 87
  15. Fine grade streets. Dec. 87
  16. Install curb and gutter throughout Area 1 as well as to Station Point 23.50 on Brampton Parkway, install base paving. Dec. 87
  17. Adjust inlet sediment control devices as necessary to provide positive drainage and collection of sediment. Mar. 88
  18. Seed, and mulch in all disturbed areas. April 88
  19. Finalize storm drain. April 88
  20. Grade for houses - separate S.D.P. to be submitted. April 88
  21. Construct houses - walks, drives and utilities. June 88
  22. Complete stabilization. June 88

TRAP #6 DA= 2.2 AC  
 STD. STONE OUTLET TRAP STY  
 Top dike = 405.50 Crest elev = 404.5  
 Bottom of basin = 401.00  
 Depth = 25'  
 Cleanout = 402.25  
 S.O.S. = 15'  
 Volume = 4000 CF @ 403.5  
 Volume req = 3960 CF

FOLLOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN: 1) SEVEN CALENDAR DAYS FOR ALL PERIMETER SEDIMENT CONTROL STRUCTURES, DIKES, SUALES, DITCHES, 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: THE CONTRACTOR OR DEVELOPER SHALL CONTACT THE CONSTRUCTION INSPECTION/SURVEY DIVISION 24 HOURS IN ADVANCE OF COMMENCEMENT OF WORK AT 792-7272



REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENT.

*James M. Helm* 9-3-87  
 SIGNATURE DATE

U.S. SOIL CONSERVATION SERVICE

This Development Plan is approved for Soil Erosion and Sediment Control by the Howard Soil Conservation District.

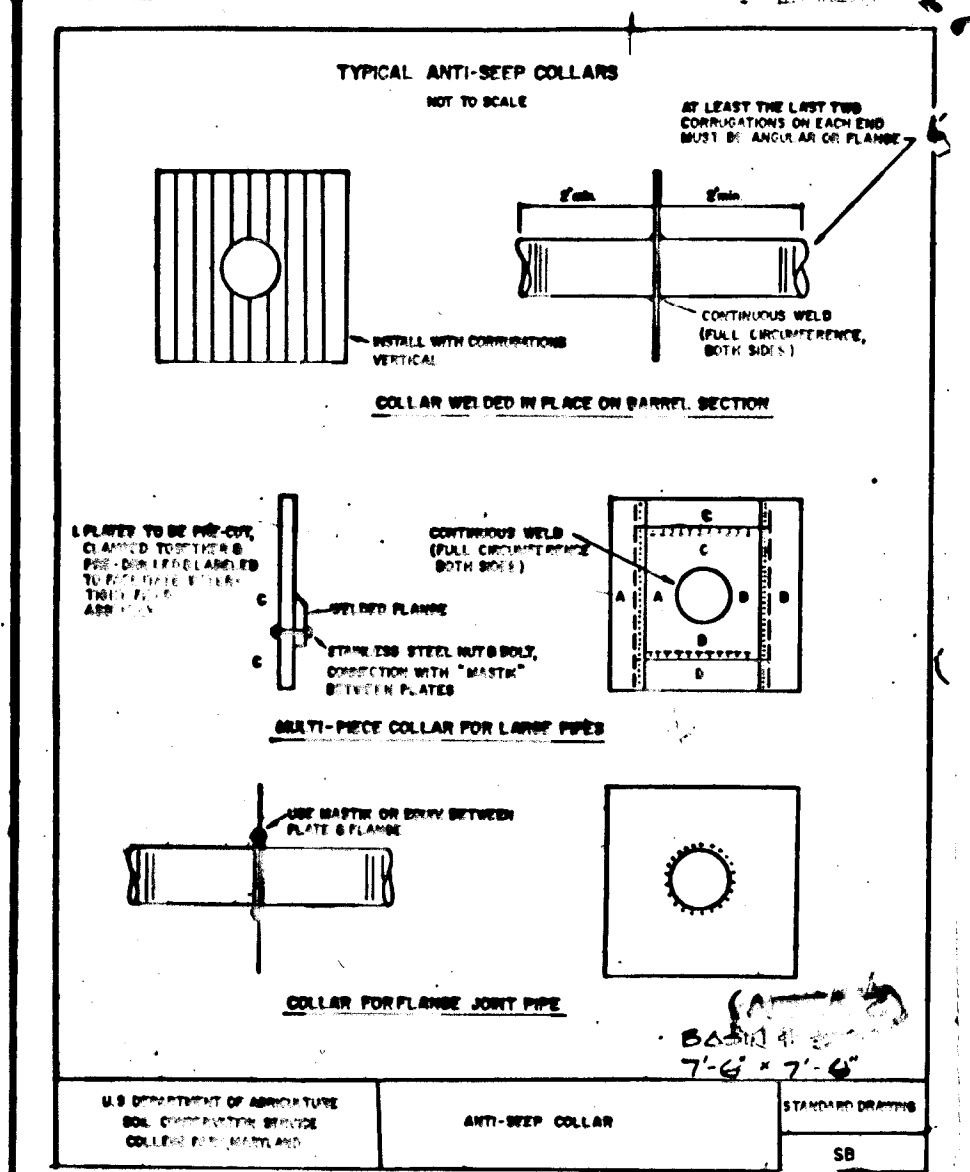
APPROVED: *[Signature]* 9-27-87  
 Chief, Land Development Division

APPROVED: *[Signature]* 9-27-87  
 Chief, Bureau of Highways

APPROVED: *[Signature]* 9-27-87  
 Chief, Bureau of Engineering

APPROVED: Howard County Office of Planning & Zoning

DIRECTOR: *[Signature]* 9-20-87  
 CHIEF DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION



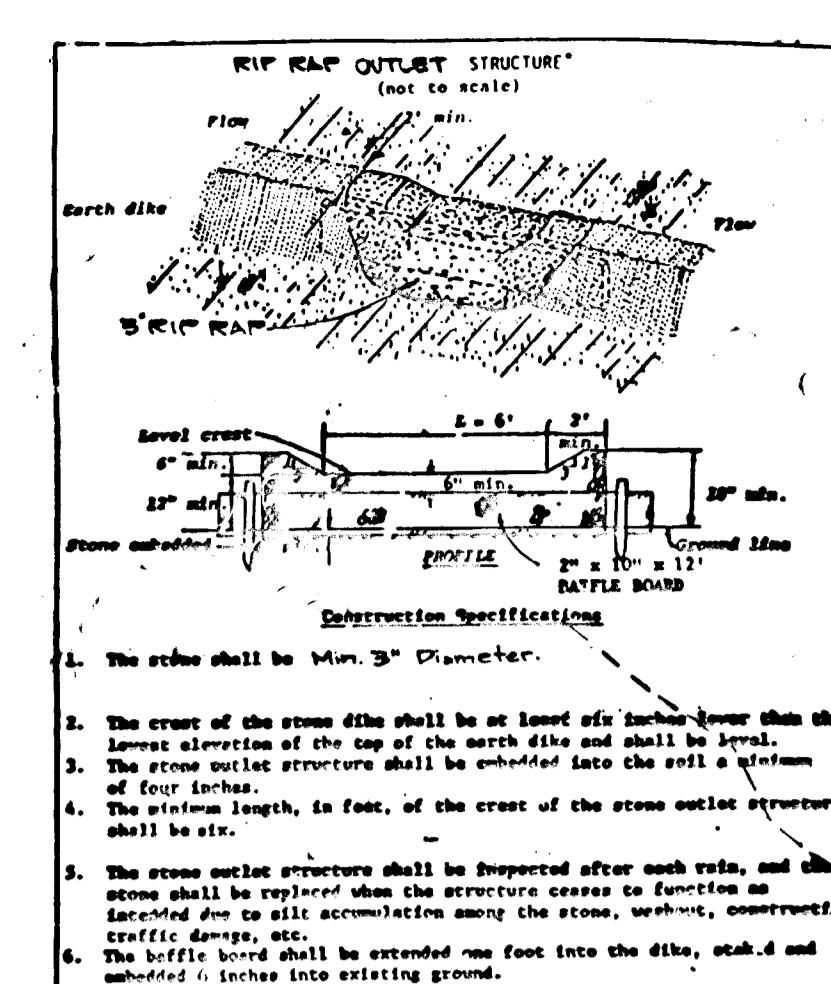
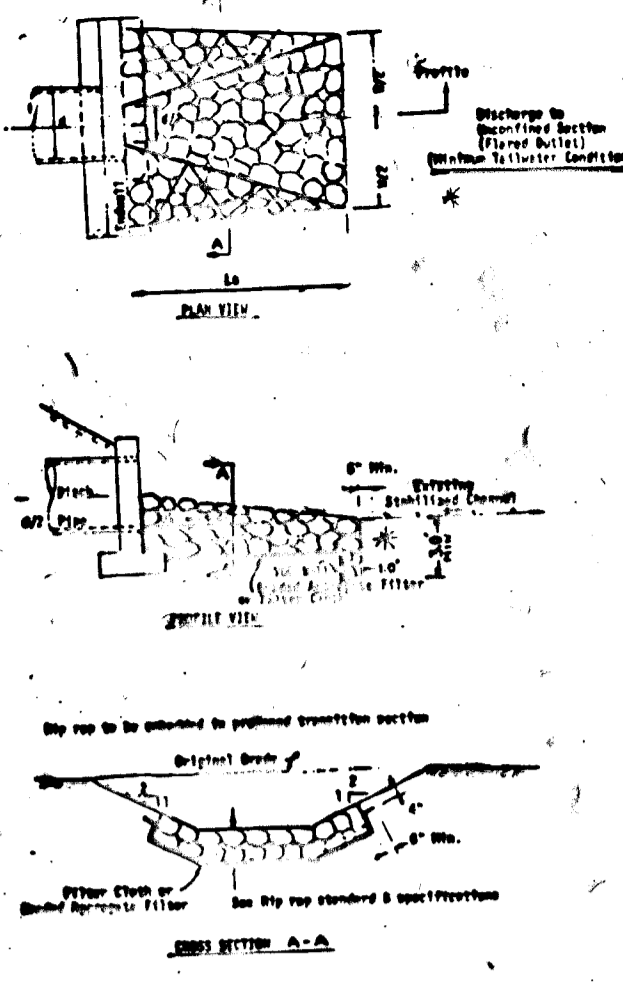
DEVELOPMENT CONSULTANTS GROUP  
 17906 Georgia Ave.  
 Olney, Md. 20832 301-924-4571

DEVELOPMENT CONSULTANTS GROUP  
 17904 Georgia Ave.  
 Olney, Md. 20832 301-924-4570

OWNER/DEVELOPER  
 CELTA CORPORATION  
 101 CHESTNUT ST. SUITE 125  
 GAITHERSBURG MD. 20877  
 (301)948-2918

SEDIMENT & EROSION CONTROL PLAN  
**BRAMPTON HILLS**  
 SECTION 4  
 TAX MAP 30 PARCEL 30  
 2nd ELECTION DISTRICT HOWARD CO, MARYLAND

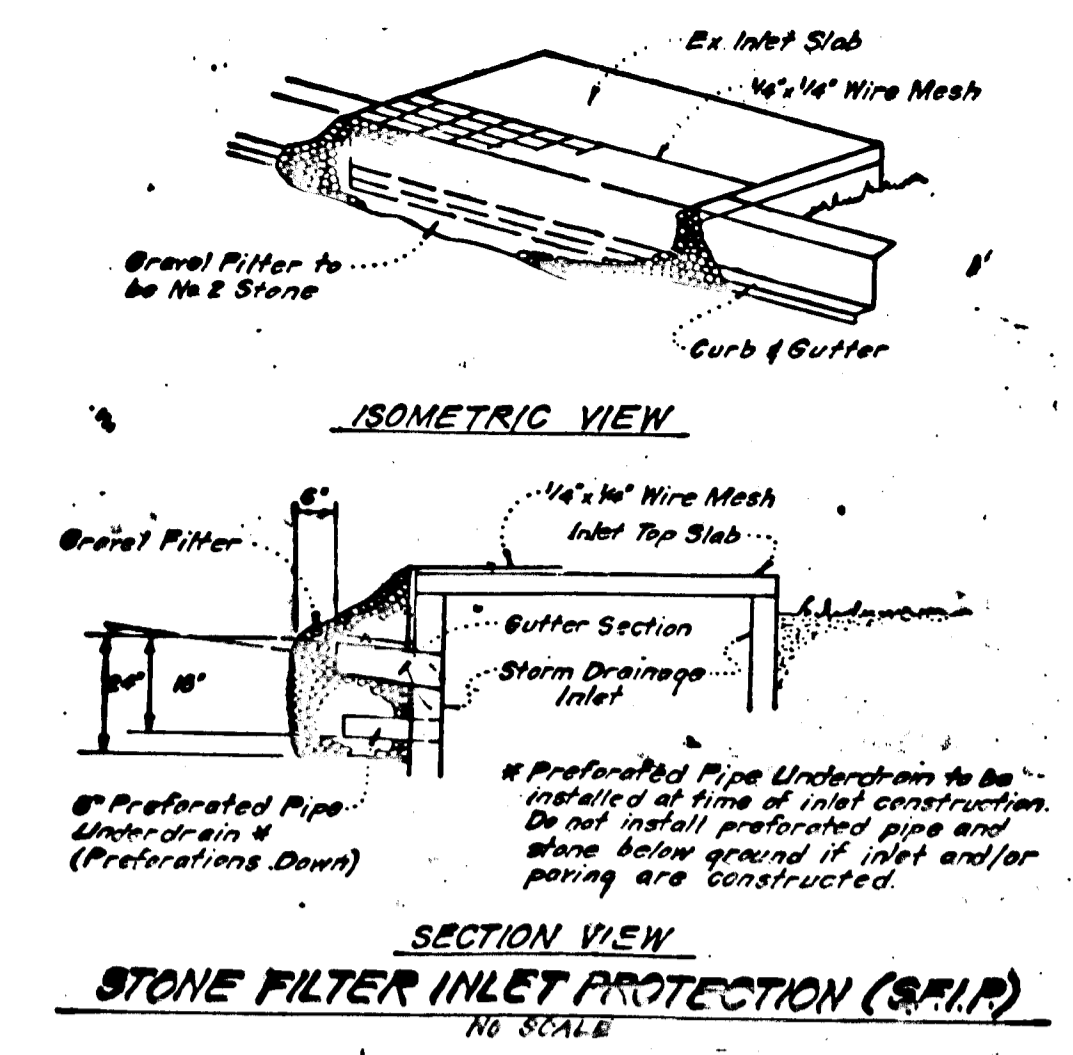
DATE: 9-20-87  
 SHEET: 10 OF 13  
 FILE NO: F-87-172



N/F  
HOWARD COUNTY, MD  
1297 / 035  
1260 / 137

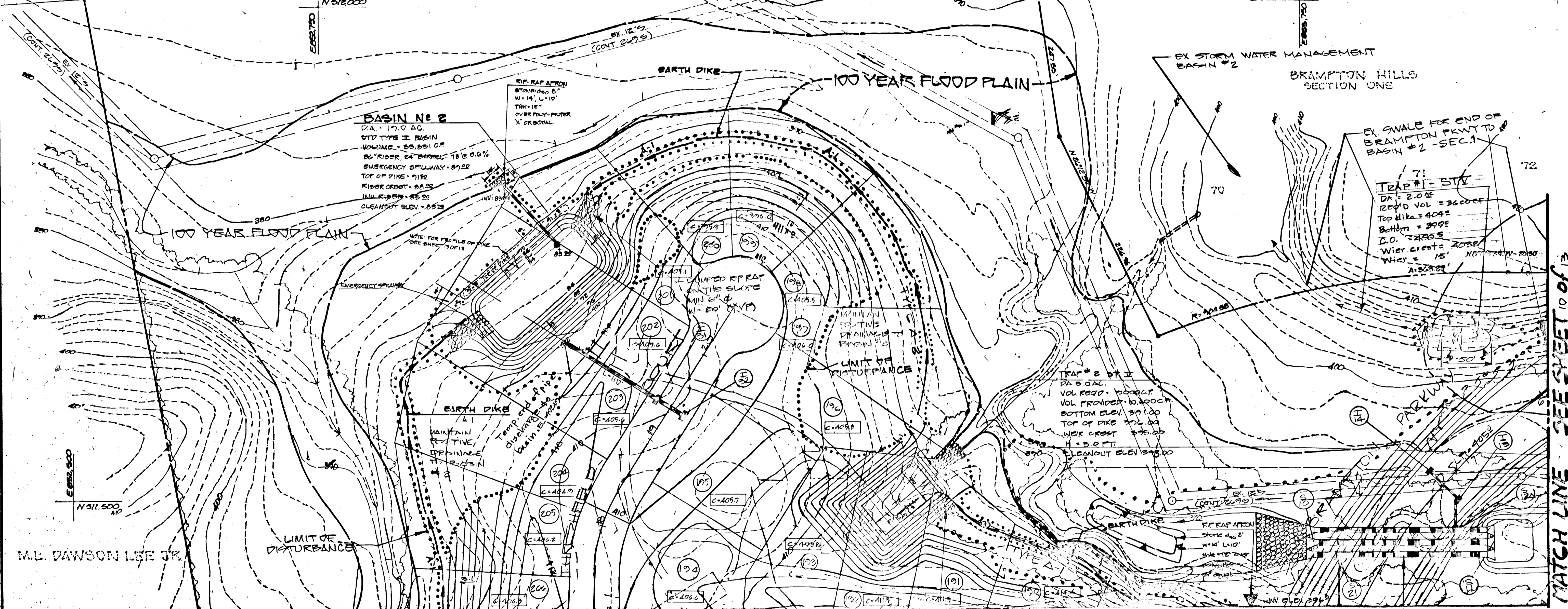
APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
Chief, Land Development Division  
Chief, Bureau of Highways  
Date: 9-9-87

APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING  
DIRECTOR  
Date: 9-10-87



U.S. DEPARTMENT OF AGRICULTURE  
SOIL CONSERVATION SERVICE  
COLLEGE PARK, MARYLAND

RIP RAP OUTLET PROTECTION-1  
STANDARD DRAWING  
RIP-1



M.L. DAWSON LEE JR.

ENGINEER'S CERTIFICATE

I HEREBY CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

*Michael J. DeLoach*  
DATE: 08/23/87

DEVELOPER'S CERTIFICATE

I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND PLAN FOR EROSION AND SEDIMENT CONTROL AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ONSITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY.

*John M. Lutz*  
DATE: 8-25-87

MATCH LINE

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.

*John M. Lutz*  
DATE: 8-3-87  
U.S. SOIL CONSERVATION SERVICE

This Development Plan is approved for Soil Erosion and Sediment Control by the Howard Soil Conservation District.

APPROVED:  
*Stephen S. C. D.*  
DATE: 12/87  
Howard S.C.D.

PLAN  
SCALE: 1" = 40'

SEE SHEET 12 of 13

FOLLOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN: 1) SEVEN CALENDAR DAYS FOR ALL PERIMETER SEDIMENT CONTROL STRUCTURES, DIKES, SWALES, DITCHES, 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: THE CONTRACTOR OR DEVELOPER SHALL CONTACT THE CONSTRUCTION INSPECTION SURVEY DIVISION 24 HOURS IN ADVANCE OF COMMENCEMENT OF WORK AT 792-7272

DEVELOPMENT CONSULTANTS GROUP  
17904 Georgia Ave.  
Olney, Md. 20832 301-924-4570

OWNER/DEVELOPER  
DELTA CORPORATION  
101 CHESTNUT ST. SUITE 125  
GAITHERSBURG MD. 20877  
(301)948-2918

SEDIMENT & EROSION CONTROL PLAN  
**BRAMPTON HILLS**  
SECTION 4  
TAX MAP 30 PARCEL 30  
2nd ELECTION DISTRICT HOWARD CO., MARYLAND

020

F-87-172/60-02



**BASIN #3**  
 DA. 3.5 AC  
 VOL. REQ'D 2245 CU YD  
 VOL. PROVIDED 2121 CU YD  
 54" RISER, 24" BARREL  
 80' @ 0.5%  
 TOP OF EMB. 424.0  
 BOT. EL. 411.0  
 MAX. WATER LEVEL 422.0  
 TOP OF RISER 420.9  
 CLEANOUT EL. 418.0  
 SEE PROFILE AND  
 DETAIL SHEETS 8710F, 11  
 (AREA 2)

M.L. DAWSON LEE JR. et al.  
 L. 514 E.S. 1  
 L. 621 E.S. 4

**BASIN #1**  
 DA. 19.0 AC  
 STD. TYPE II BASIN  
 VOLUME 24,200 CF  
 24" RISER, 24" BARREL  
 EMER. STILLWATER 406.00  
 TOP OF DIKE 408.50  
 RISER CREST 405.00  
 INVERT RISER 398.00  
 CLEAN OUT ELEV. 401.50  
 NOTE: FOR PROFILE OF DIKE  
 SEE SHEET 10 OF 11

"I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND PLAN FOR EROSION AND SEDIMENT CONTROL AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ONSITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY."

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENT.  
 APPROVED: *James McJohn* 9-3-87  
 U.S. SOIL CONSERVATION SERVICE

This Development Plan is approved for Soil Erosion and Sediment Control by the Howard Soil Conservation District.  
 APPROVED: *Howard Soil Conservation District* 9/3/87

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
 Chief, Land Development Division  
 Chief, Bureau of Highways  
 Chief, Bureau of Engineering

FOLLOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN: 1) SEVEN CALENDAR DAYS FOR ALL PERIMETER SEDIMENT CONTROL STRUCTURES, DIKES, SWALES, DITCHES, 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: THE CONTRACTOR OR DEVELOPER SHALL CONTACT THE CONSTRUCTION INSPECTION/SURVEY DIVISION 24 HOURS IN ADVANCE OF COMMENCEMENT OF WORK AT 792-7272

SIGNATURE OF DEVELOPER: *[Signature]* DATE: 7-25-87  
 I HEREBY CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A REASONABLE AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.  
 SIGNATURE OF ENGINEER: *[Signature]* DATE: 08/17/87

DEVELOPMENT CONSULTANTS GROUP  
 17904 Georgia Ave.  
 Ulysses, Md. 20832 301-924-4571

SEDIMENT & EROSION CONTROL PLAN  
**BRAMPTON HILLS**  
 SECTION 4  
 TAX MAP 30 PARCEL 30  
 2nd ELECTION DISTRICT HOWARD CO., MARYLAND  
 SCALE: 1"=50' DATE: 8/17/87 SHEET 12 OF 13

320

F-87-172

**TEMPORARY SEEDING NOTES**

Apply to graded or cleared areas likely to be re-disturbed where a short-term vegetative cover is needed.

**SEEDING PREPARATION:** Loosen upper three inches of soil by raking, disking or other acceptable means before seeding.

**SOIL AMENDMENTS:** Apply 600 lbs. per acre 10-10-10 Fertilizer (14 lbs./1000 Sq.Ft.)

**SEEDING:** For periods March 1 through April 30 and from August 15 through November 15, seed with 2 bushel per acre of Annual Rye (3.2 lbs./1000 Sq.Ft.). For the period May 1 through August 14, seed with 3 lbs. per acre of Seeding Lovegrass (.07 lbs./1000 Sq.Ft.). For the period November 16 through February 28, protect site by applying 2 tons per acre of well Anchored Straw Mulch and seed as soon as possible in the Spring, or use Sod.

**MULCHING:** Apply 14 to 2 tons per acre (70 to 90 lbs./1000 Sq.Ft.) of Unrotted Small Grain Straw immediately after seeding. Anchor Mulch immediately after application using Mulch Anchoring Tool or 218 gal. per acre (5 gal./1000 Sq.Ft.) of Emulsified Asphalt on Flat Areas. On Slopes, 8 ft. or higher, use 348 gal. per acre (5 gal./1000 Sq.Ft.) for anchoring.

Refer to the 1983 Maryland Standards and Specifications for Soil Erosion and Sediment Control for Rate and Methods not covered.

**APPLICATION:** Apply seed uniformly with a cyclone seeder, drill, cultipacker seeder or hydroseeder (slurry includes seed and fertilizer).

**PERMANENT SEEDING NOTES**

Apply to graded or cleared areas not subject to immediate further disturbance where a permanent long-lived vegetative cover is needed.

**SEEDING PREPARATION:** Loosen upper three inches of soil by raking, disking or other acceptable means before seeding.

**SOIL AMENDMENTS:** In lieu of soil test recommendations, use one of the following:

- Preferred - apply 2 tons per acre Dolomitic Limestone (92 lbs./1000 Sq.Ft.) and 600 lbs. per acre 10-10-10 Fertilizer (14 lbs./1000 Sq.Ft.) before seeding. Harrow or Disc into upper three inches of soil. At time of seeding, apply 400 pounds per acre 30-0-0 Ureaform Fertilizer (9 lbs./1000 Sq.Ft.).
- Acceptable - apply 2 tons per acre Dolomitic Limestone (92 lbs./1000 Sq.Ft.) and 1000 lbs. per acre 10-10-10 Fertilizer (23 lbs./1000 Sq.Ft.) before seeding. Harrow or Disc into upper three inches of soil.

**SEEDING:** For the periods March 1 through April 30, and August 1 through October 15, seed with 60 lbs. per acre (1.4 lbs./1000 Sq.Ft.) of Kentucky 31 Tall Fescue. For the period May 1 through July 31, seed with 60 lbs. Kentucky 21 Tall Fescue per acre and 2 lbs. per acre (.05 lbs./1000 Sq.Ft.) of Seeding Lovegrass. During the period of October 16 through February 28, protect site by: Option (1) 2 tons per acre of well anchored Straw Mulch and seed as soon as possible in the Spring. Option (2) use Sod. Option (3) seed with 60 lbs./acre Kentucky 31 Tall Fescue and Mulch with 2 tons/acre well anchored Straw.

**MULCHING:** Apply 14 to 2 tons per acre (70 to 90 lbs./1000 Sq.Ft.) of Unrotted Small Grain Straw immediately after seeding. Anchor Mulch immediately after application, using Mulch anchoring tool or 218 gallons per acre (5 gal./1000 Sq.Ft.) of Emulsified Asphalt on Flat Areas. On Slopes 8 feet or higher, use 348 gallons per acre (5 gal./1000 Sq.Ft.) for anchoring.

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

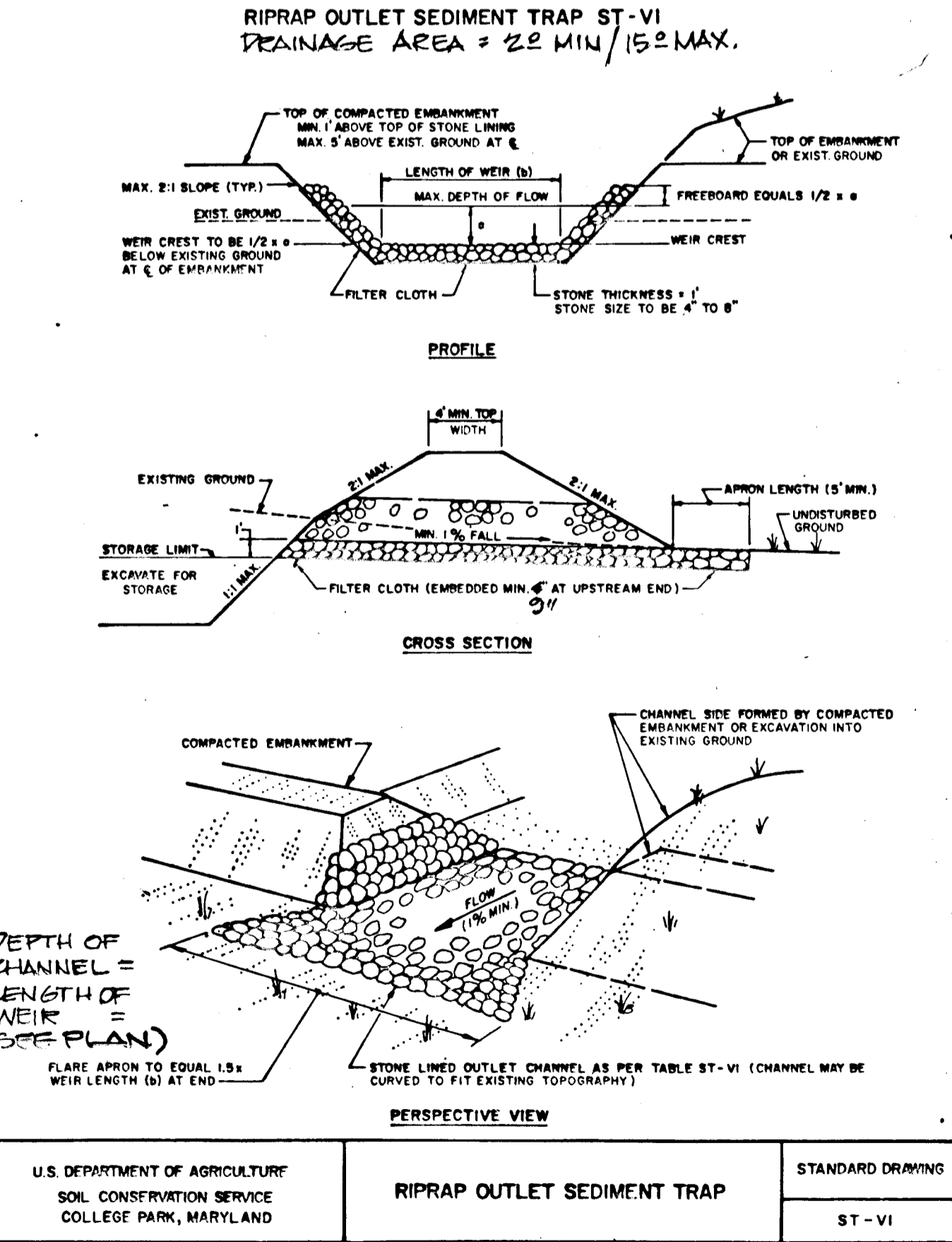
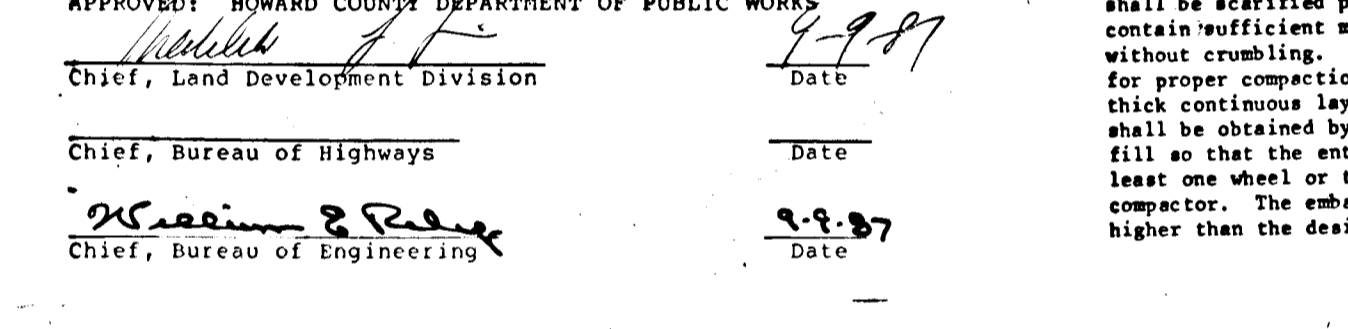
**APPLICATION:** Apply seed uniformly with a cyclone seeder, drill, cultipacker seeder or hydroseeder (slurry includes seed and fertilizer).

**APPROVED:** HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

*[Signature]* 9-9-87  
Chief, Land Development Division

*[Signature]* 9-9-87  
Chief, Bureau of Highways

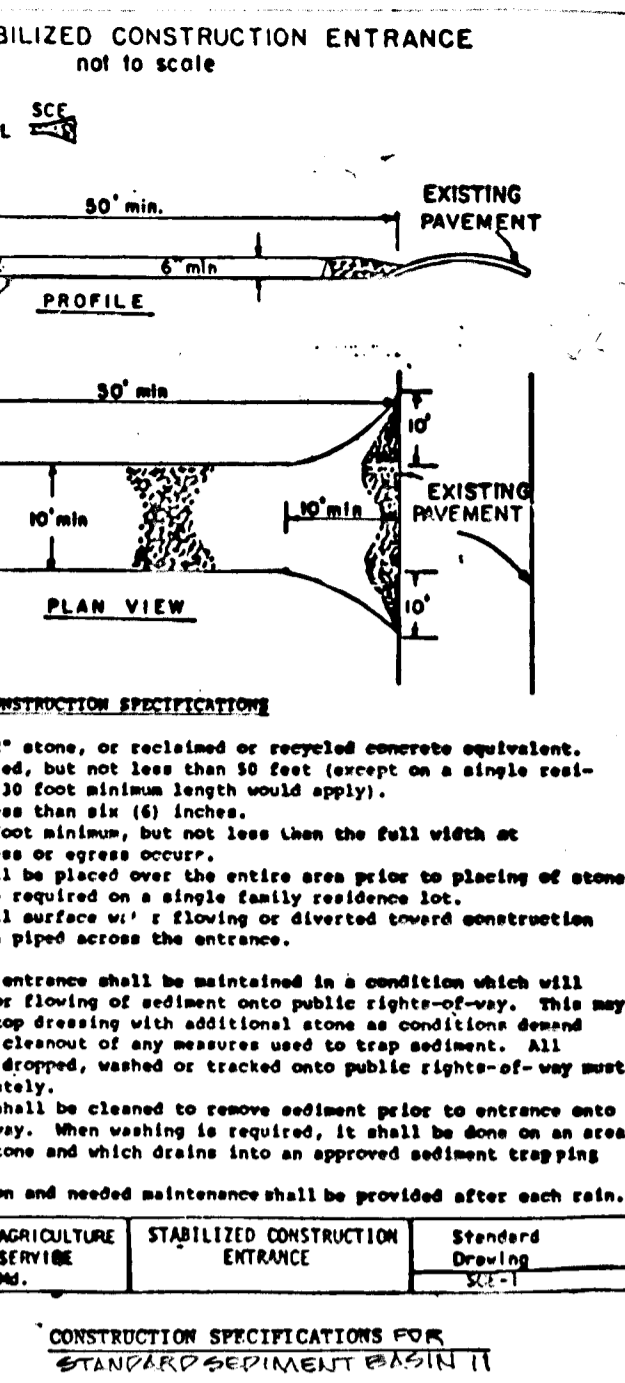
*[Signature]* 9-9-87  
Chief, Bureau of Engineering



NO.	REVISIONS	DATE

U.S. DEPARTMENT OF AGRICULTURE  
SOIL CONSERVATION SERVICE  
COLLEGE PARK, MARYLAND

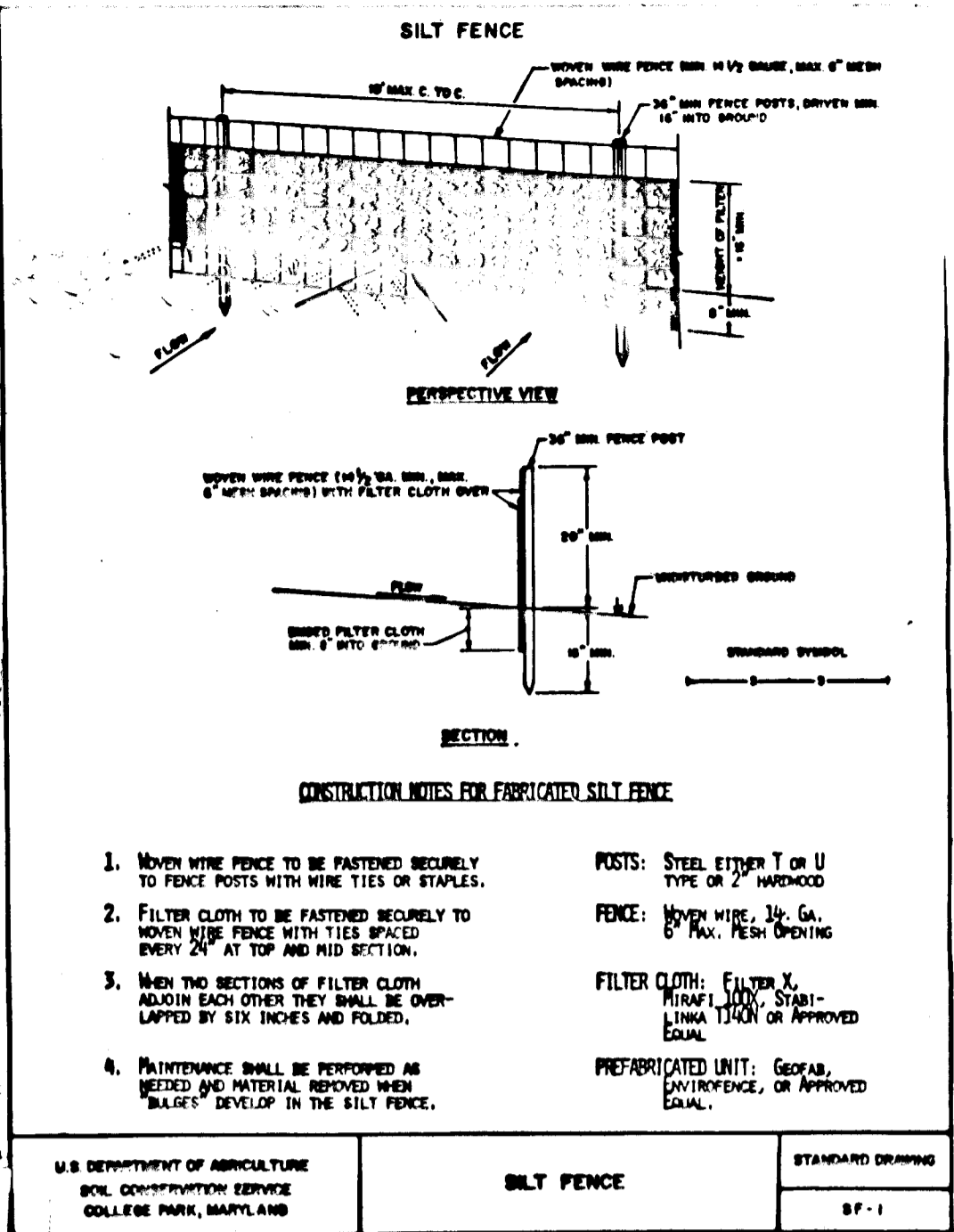
ST-VI



**CONSTRUCTION SPECIFICATIONS FOR STABILIZED CONSTRUCTION ENTRANCE**

- Stone Size - One 2" stone, or recycled or recycled concrete equivalent. Length - As specified, but not less than 18 inches on a single resistance lot where a 30 foot minimum length would apply.
- Structure - Use 18" x 18" x 18" concrete blocks.
- Width - Ten (10) feet plus or minus less than the full width at points where ingress or egress occur.
- Filter Cloth - Will be placed over the entire area prior to placing of stone. Filter will not be required on a single family residence lot.
- Surface Water - All surface flowing or diverted toward construction entrances shall be piped across the entrance.
- Maintenance - The entrance shall be maintained in a condition which will prevent tracking or flowing of sediment onto public rights-of-way. This may require periodic top dressing with additional stone as needed and repair and/or cleaning of any measures used to trap sediment. All sediment spilled, dropped, washed or tracked onto public rights-of-way must be cleaned immediately.
- Sealing - Weeds shall be cleaned to remove sediment prior to entrance onto public rights-of-way. When sealing is required, it shall be done on an area stabilized with stone and which drains into an approved sediment trapping device.
- Periodic inspection and needed maintenance shall be provided after each rain.

U. S. DEPARTMENT OF AGRICULTURE  
SOIL CONSERVATION SERVICE  
COLLEGE PARK, MD.

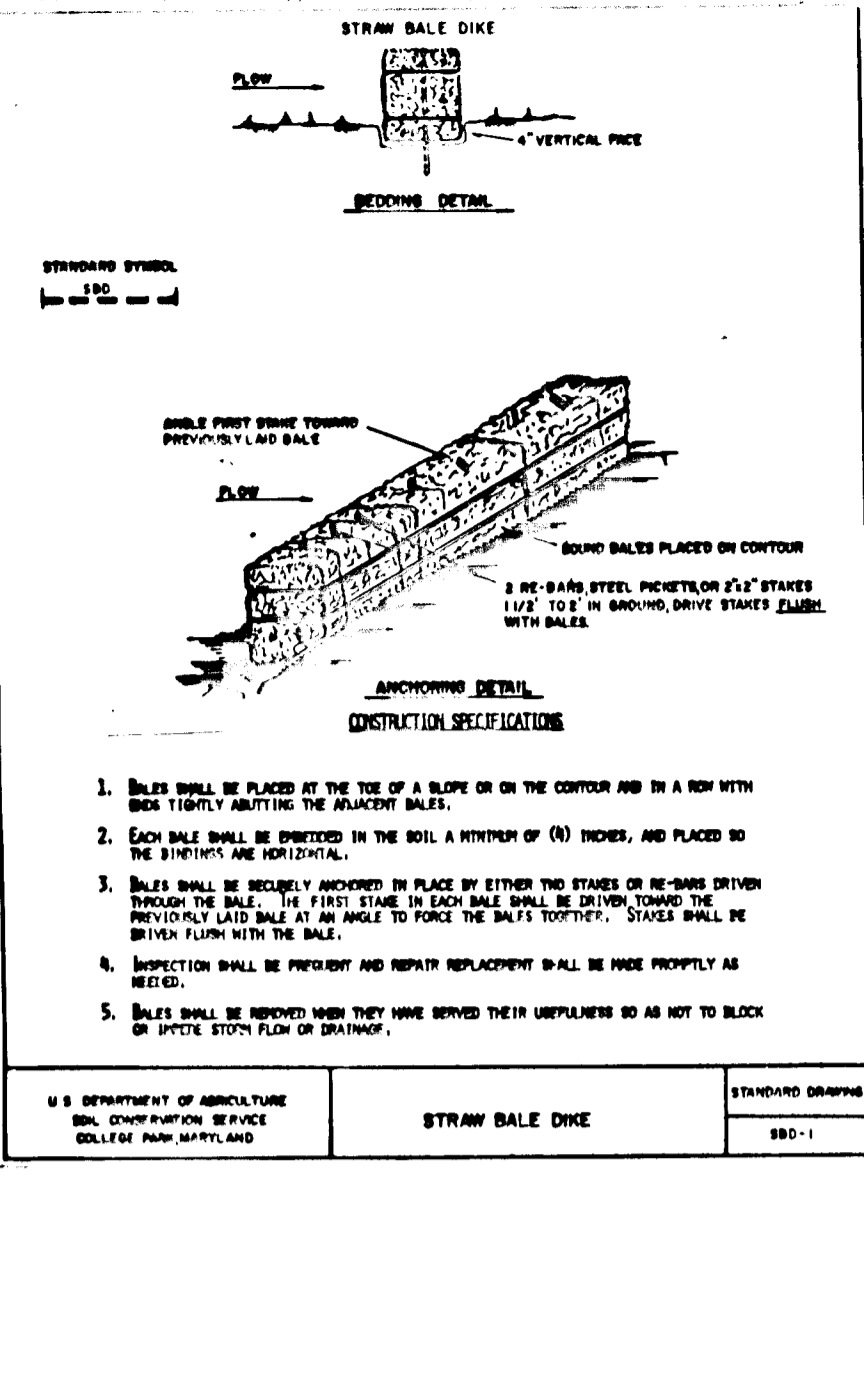


**CONSTRUCTION NOTES FOR FABRICATED SILT FENCE**

- MOVING WIRE FENCE TO BE PARTIALLY SECURED TO DRIVE POTS WITH WIRE TIES OR STAPLES.
- FILTER CLOTH TO BE FASTENED REGULARLY TO MOVING WIRE FENCE WITH WIRE STAPLES EVERY 24" AT TOP AND MID SECTION.
- BACK THE SECTIONS OF FILTER CLOTH ALONG EACH OTHER THEY SHALL BE OVERLAPPED BY SIX INCHES AND POLDED.
- MAINTENANCE SHALL BE PERFORMED AS REQUIRED AND MATERIAL REMOVED WHEN BALE'S DEVELOP IN THE SILT FENCE.

POSTS: STEEL STUDS 1" X 1" TYPE OR 2" WOODCO  
FENCE: MOVING WIRE, 16 GA. 3" HIG. FRESH COATING  
FILTER CLOTH: 60 LBS. PER SQ. YD. 100% POLYPROPYLENE, 12" X 12" OR APPROVED EQUAL  
PREPARED UNIT: GEOTEX, ENVIRONMENT, OR APPROVED EQUAL

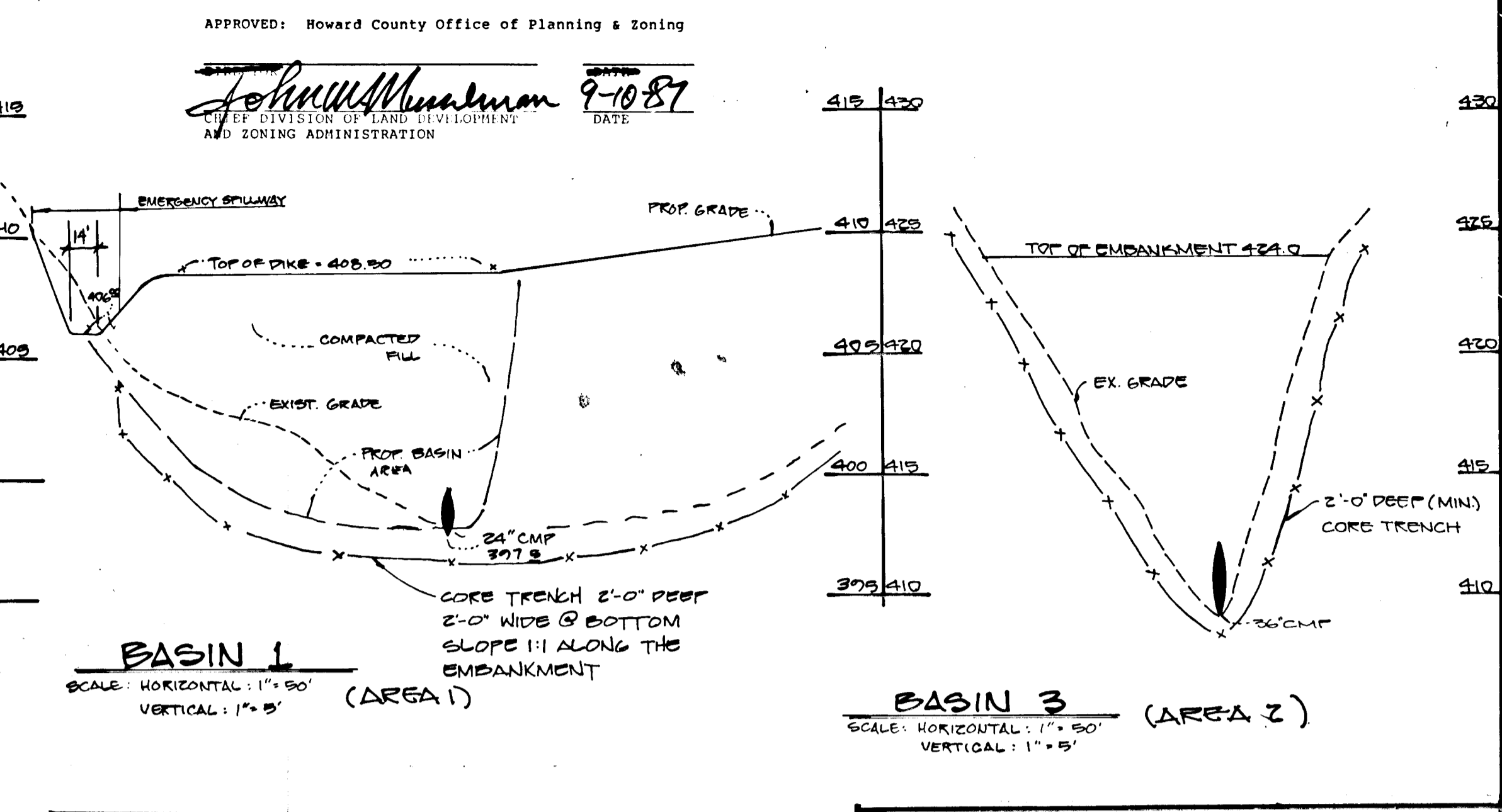
U.S. DEPARTMENT OF AGRICULTURE  
SOIL CONSERVATION SERVICE  
COLLEGE PARK, MARYLAND



**CONSTRUCTION SPECIFICATIONS FOR BASIN 1**

- BALES SHALL BE PLACED ON THE TOP OF A BALE OR ON THE CENTER AND IN A ROW WITH ONE TYPICALLY ADJACENT TO THE ADJACENT BALE.
- EACH BALE SHALL BE POSITIONED IN THE SOIL A MINIMUM OF (10) INCHES AND PLACED SO THE STRINGS ARE HORIZONTAL.
- BALES SHALL BE SECURELY FASTENED TO EITHER THE STRINGS OR TO EACH OTHER THROUGH THE BALE. THE FIRST STRING IN EACH BALE SHALL BE FASTENED TO THE STRINGS THROUGH THE BALE. IT SHALL BE SURE TO FORCE THE BALE TIGHTLY. STRINGS SHALL BE STRUNG FLAT WITH THE BALE.
- INSPECTION SHALL BE PROVIDED AND REPAIRS REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
- BALES SHALL BE REMOVED WHEN THEY SHOW THEIR UTILITY AS NOT TO BACK UP LITTLE STORM FLOW OR DRAINAGE.

U.S. DEPARTMENT OF AGRICULTURE  
SOIL CONSERVATION SERVICE  
COLLEGE PARK, MARYLAND



**STANDARD SEDIMENT BASIN II**

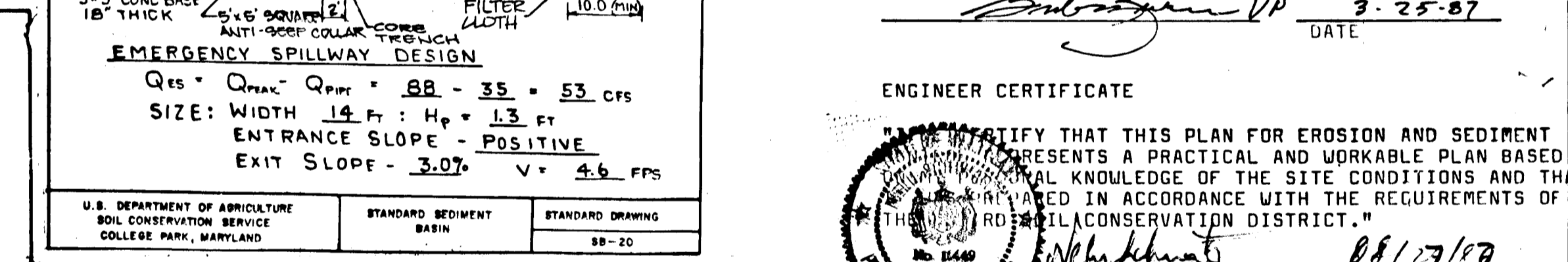
**CONDITIONS WHERE PRACTICE APPLIES**

- Drainage area to the basin is 20 acres or less.
- An emergency spillway is required.
- One anti-sweep collar shall be used, and placed 25 feet from the riser.
- Waterproof bands shall be used.
- All pipe material shall be of good quality with no holes.
- Volume of storage computed as 1,800 C.F./acre of drainage area.

**EMERGENCY SPILLWAY DESIGN**

QES \* QPEAK \* QPIKE = 88 - 35 = 53 CFS  
SIZE: WIDTH 14 FT. \* H<sub>1</sub> = 13 FT.  
ENTRANCE SLOPE - POSITIVE  
EXIT SLOPE - 3.0% \* V = 4.6 FPS

U.S. DEPARTMENT OF AGRICULTURE  
SOIL CONSERVATION SERVICE  
COLLEGE PARK, MARYLAND



**CONSTRUCTION SPECIFICATIONS FOR ST-VI**

- The area under embankment shall be cleared, grubbed and stripped of any vegetation and root mat. The pool area shall be cleared.
- The fill material for the embankment shall be free of roots and other woody vegetation as well as over-sized stones, rocks, organic material or other objectionable material. The embankment shall be compacted by traversing with equipment while it is being constructed. Maximum height of embankment shall be five (5) feet, measured at centerline of embankment.
- All fill slopes shall be 2:1 or flatter; cut slopes 1:1 or flatter.
- Elevation of the top of any dike directing water into trap must equal or exceed the height of embankment.
- Storage area provided shall be figured by computing the volume available behind the outlet channel up to an elevation of one (1) foot below the level weir crest.
- Filter cloth shall be placed over the bottom and sides of the outlet channel prior to placement of stone. Sections of fabric must overlap at least one (1) foot with section nearest the entrance placed on top. Fabric shall be embedded at least six (6) inches into existing ground at entrance of outlet channel.
- Stone used in the outlet channel shall be four (4) to eight (8) inches (riprap). To provide a filtering effect, a layer of filter cloth shall be embedded one (1) foot back into the upstream face of the outlet stone or a one (1) foot thick layer of two (2) inch or finer aggregate shall be placed on the upstream face of the outlet.
- Sediment shall be removed and trap restored to its original dimensions when the sediment has accumulated to 1/2 the design depth of the trap. Removed sediment shall be deposited in a suitable area and in such a manner that it will not erode.
- The structure shall be inspected after each rain and repaired as needed.
- Construction operations shall be carried out in such a manner that erosion and water pollution are minimized.
- The structure shall be removed and the area stabilized when the drainage area has been properly stabilized.
- Drainage area for this practice is limited to 15 acres or less.

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

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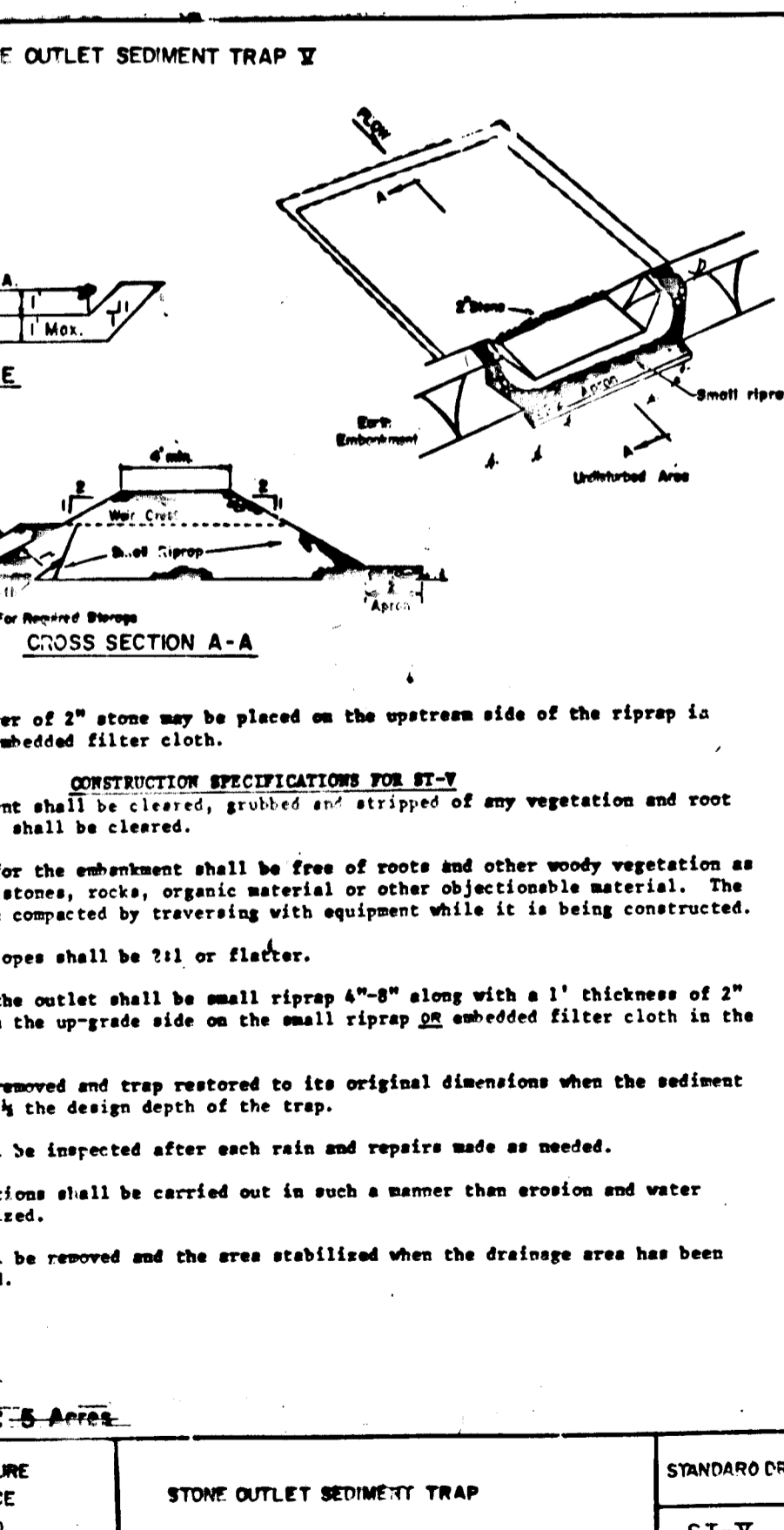
Maryland SCS/WRA April 1983

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DEVELOPMENT CONTROL DETAILS  
SECTION 4 - AREA 1  
BRAMPTON HILLS  
TAX MAP 30431 PARCEL 30  
ELLICOTT CITY CONFECTION DISTRICT  
HOWARD COUNTY, MARYLAND

DATE: 9-3-87  
DRAWN: BA  
CHECKED: BA  
SCALE: AS SHOWN

Sheet 13 of 13  
PROJECT NO. 160-02

F-87-172