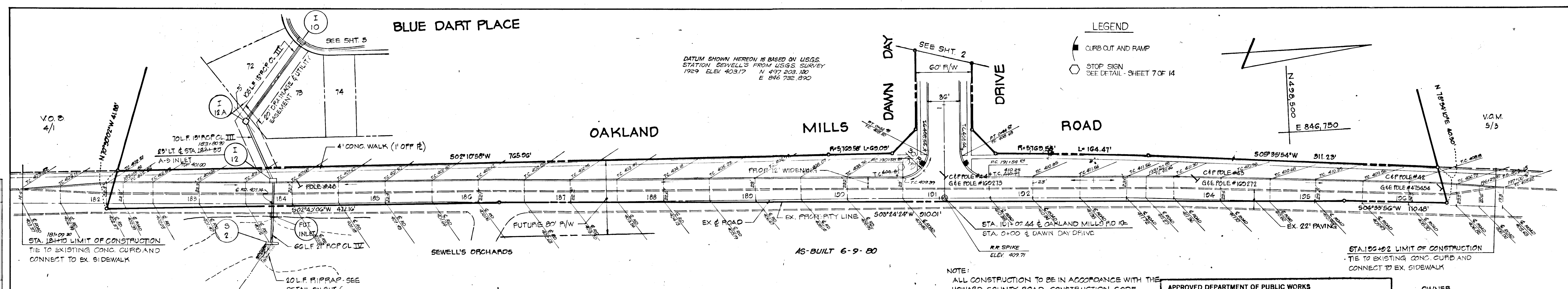


PLAN  
 SURVEYED BY: [ ]  
 PLOTTED BY: [ ]  
 NOTE BOOK NO. [ ]  
 DATE [ ]

PROFILE  
 GRADES CHECKED BY: [ ]  
 NOTE BOOK NO. [ ]  
 DATE [ ]



DATUM SHOWN HEREON IS BASED ON USGS STATION SEWELL'S FROM USGS SURVEY 1929 ELEV 403.17 N 497.203.182 E 846.732.890

LEGEND

- CURB OUT AND RAMP
- STOP SIGN SEE DETAIL - SHEET 7 OF 14

DESIGN SPEEDS

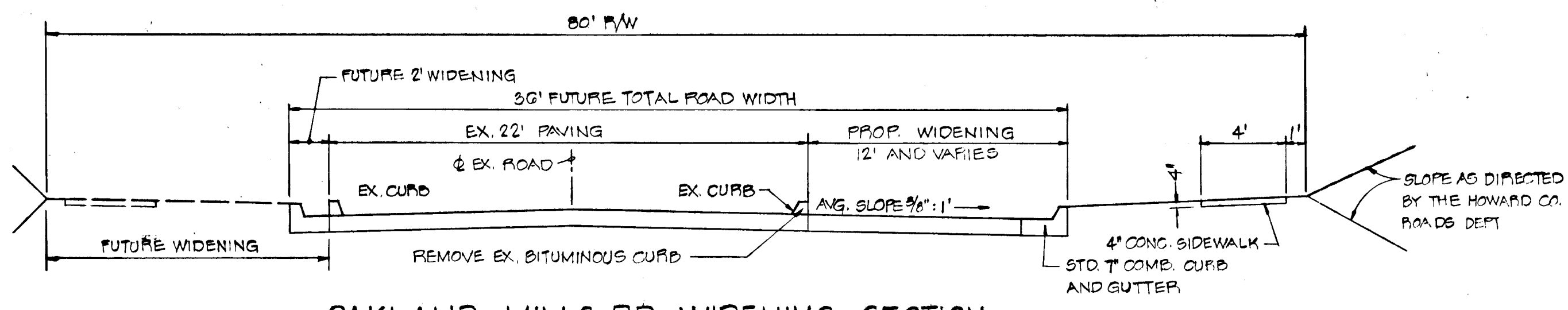
OAKLAND MILLS RD	40 MPH
DAWN DAY DR. STA 100 TO STA 300	30 MPH
ALL OTHER STREETS	25 MPH

APPROVED DEPARTMENT OF PUBLIC WORKS  
*W. J. [Signature]* 4-27-79  
 CHIEF, BUREAU OF ENGINEERING DATE

APPROVED OFFICE OF PLANNING AND ZONING  
*W. W. [Signature]* 4-17-79  
 CHIEF, DIVISION OF LAND DEVELOPMENT DATE

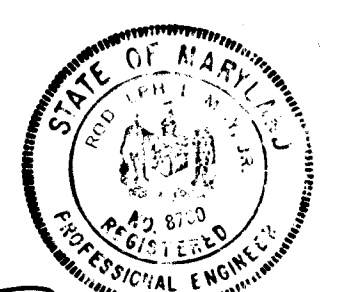
OWNER  
 SEWELL'S ORCHARDS  
 6233 OAKLAND MILLS RD.  
 COLUMBIA, MD 21045

DEVELOPER  
 LIGHTPOINT ASSOCIATES  
 602 GARFETT BUILDING  
 BALTIMORE, MD 21202



OAKLAND MILLS RD. WIDENING SECTION

NOT TO SCALE STA. 181+10 TO STA. 196+52  
 COLLECTOR STREET  
 DESIGN SPEED: 140 MPH EX. ZONING: R.S.C.  
 DRAWN: D-18 PAGE 73



PLAN  
 SCALE: 1" = 50'

INDEX OF SHEETS

SHEET NO.	SHEET NO.
PLANS & PROFILES, ROADS 1 THRU 5	ROAD SECTIONS 1, 5
STORM DRAIN PROFILES 6, 7	PAVING, CURB SECTIONS & NOTES 5
STORM WATER MANAGEMENT PLAN 8, 9	STRUCTURE SCHEDULE 6, 7
SEDIMENT CONTROL PLAN & DETAILS 10, 11	AS-BUILT SURVEY SCHEDULE 7
DRAINAGE AREA MAPS 12, 13	AS-BUILT SURVEY AUG. 13, 1982 (STAMPED)
VICINITY MAP 2	AS-BUILT SURVEY CERTIFIED BY WILLIAM G. HARTEL, MD REG. LAND SURVEYOR NO. 9436

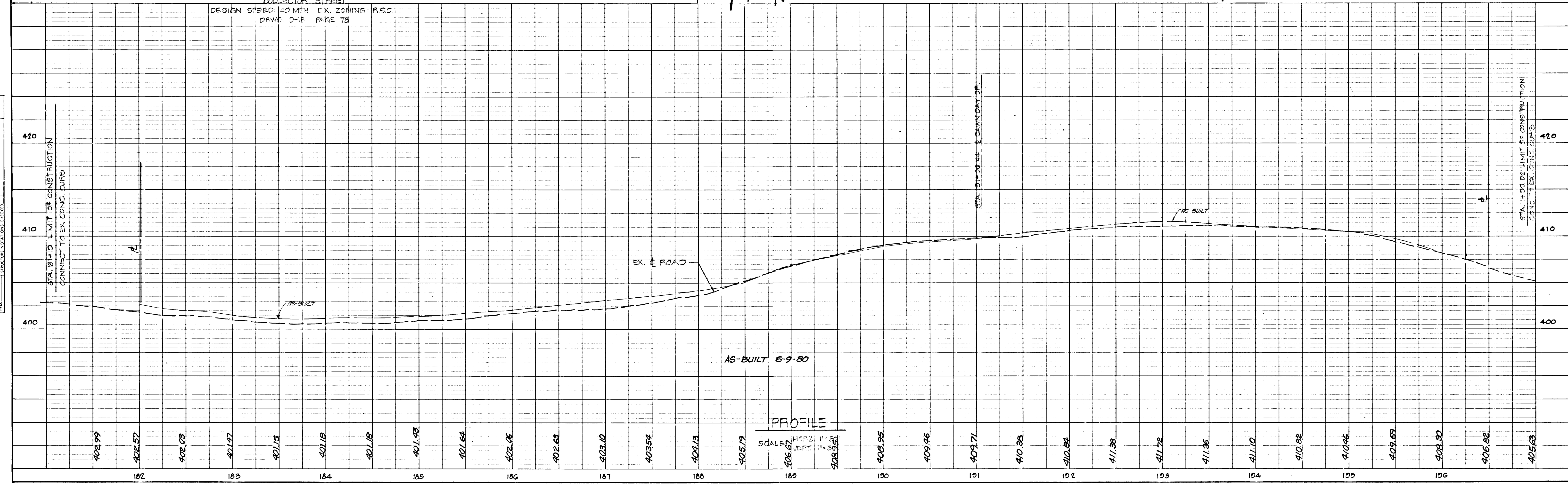
TITLE: OAKLAND MILLS RD. - ROAD WIDENING PLAN  
 PROJECT: MARBELLA II

LOCATION: 6TH ELECTION DISTRICT HOWARD COUNTY, MD

DATE: JAN., 1979 DESIGN BY: R.L.M. DRAWN BY: J.J.B. CHECKED BY: R.L.M.

SCALE: AS SHOWN JOB NO.: 78251 DRAWING NO.: 10F14

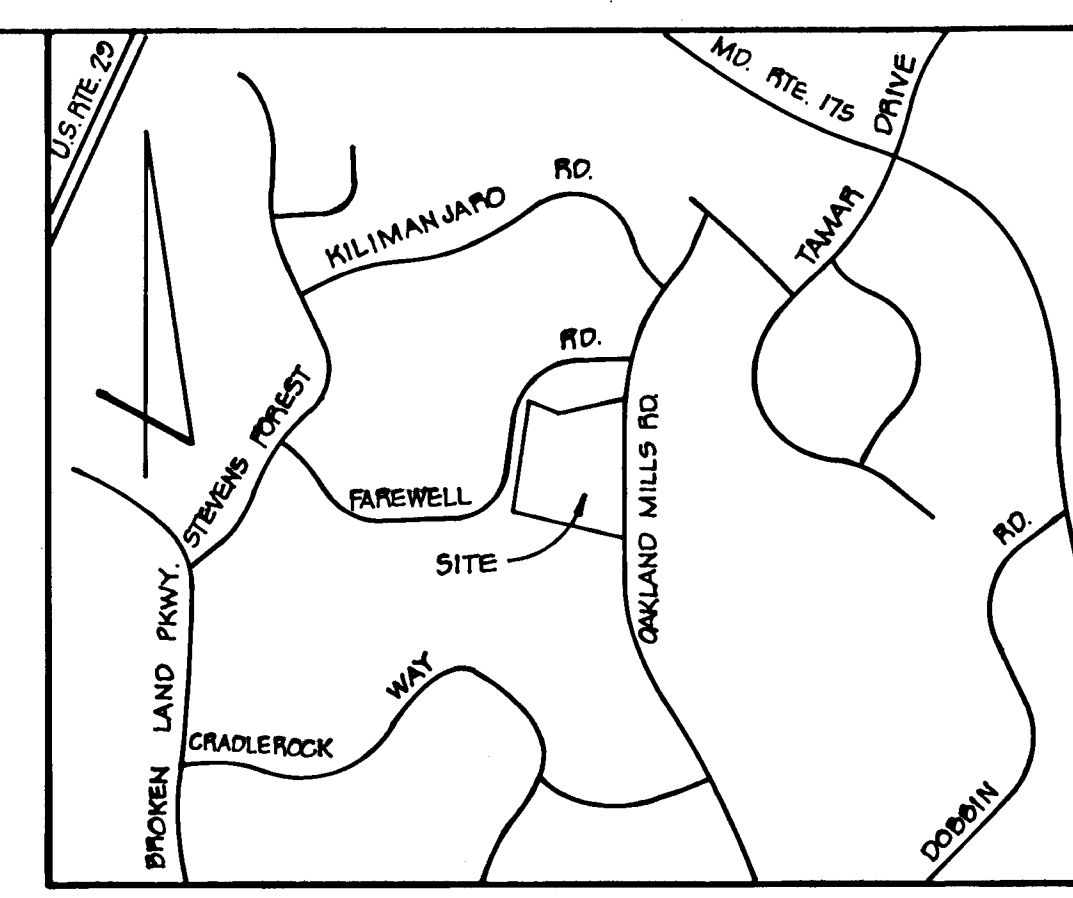
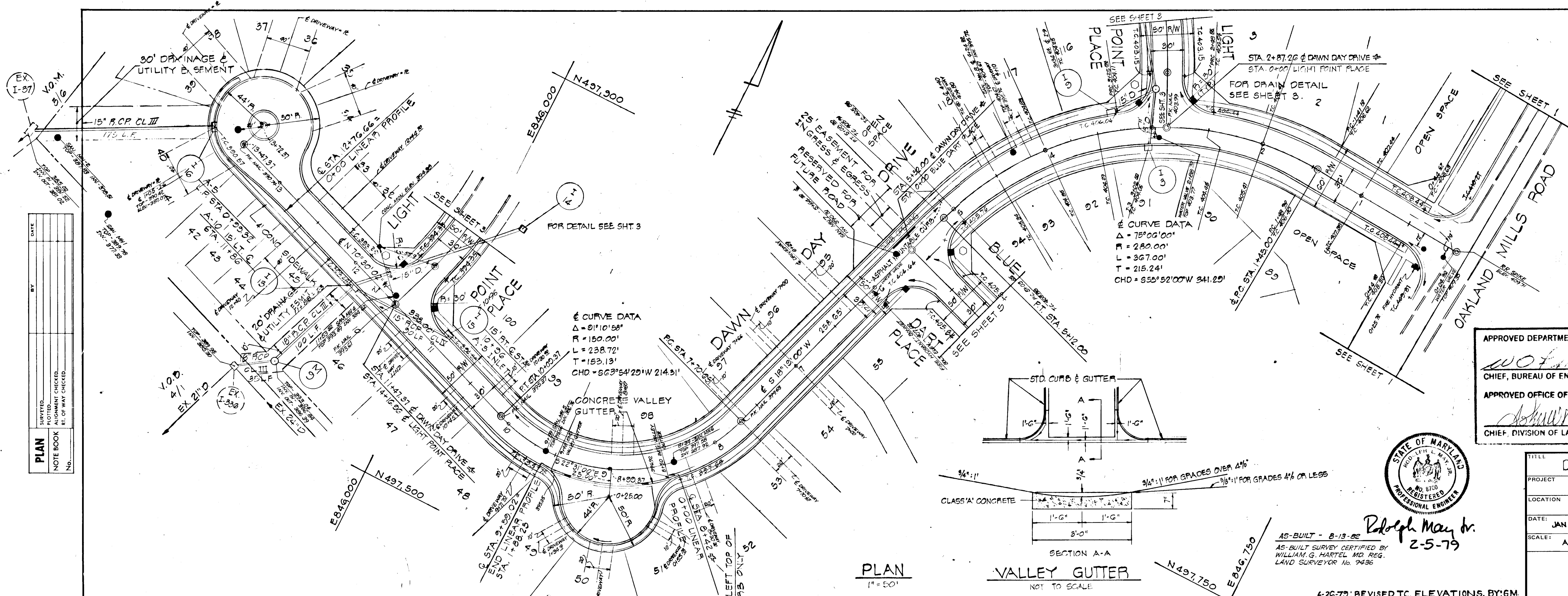
boender associates engineers/surveyors/planners  
 BALTIMORE 301-465-7777 • SALISBURY 301-749-1286



PROFILE  
 SCALE: HORIZ. 1" = 50' VERT. 1" = 5' 0"

F-79-130





APPROVED DEPARTMENT OF PUBLIC WORKS  
 [Signature] 4-24-79  
 CHIEF, BUREAU OF ENGINEERING DATE

APPROVED OFFICE OF PLANNING AND ZONING  
 [Signature] 4-17-79  
 CHIEF, DIVISION OF LAND DEVELOPMENT DATE

OWNER  
 SEWELL'S ORCHARDS  
 6228 OAKLAND MILLS RD.  
 COLUMBIA, MD. 21045

DEVELOPER  
 LIGHTPOINT ASSOCIATES  
 602 GARRETT BUILDING  
 BALTIMORE, MD. 21202

TITLE DAWN DAY DRIVE : ROAD CONSTRUCTION PLAN			
PROJECT MARBELLA II			
LOCATION GTH ELECTION DISTRICT		HOWARD COUNTY, MD.	
DATE JAN, 1979	DESIGN BY W.H.N.	DRAWN BY -	CHECKED BY R.L.M.
SCALE AS SHOWN	JOB NO. 78251	DRAWING NO. 2 OF 4	

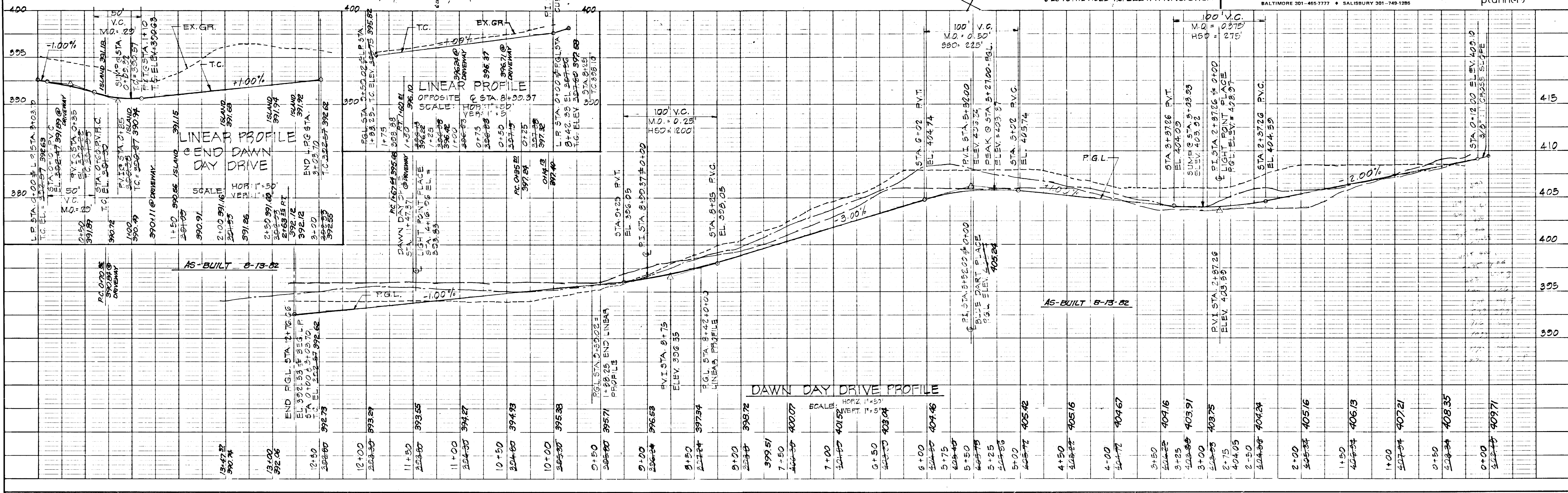


Rolph May Jr.  
2-5-79

6-26-79: REVISED T.C. ELEVATIONS. BY:GM

boender associates  
 engineers/surveyors/planners  
 BALTIMORE 301-465-7777 • SALISBURY 301-749-1286

**PROFILE**  
 DRAWING NO. 78251-2  
 DATE 4-24-79  
 BY W.H.N.  
 CHECKED R.L.M.  
 DATE 4-24-79

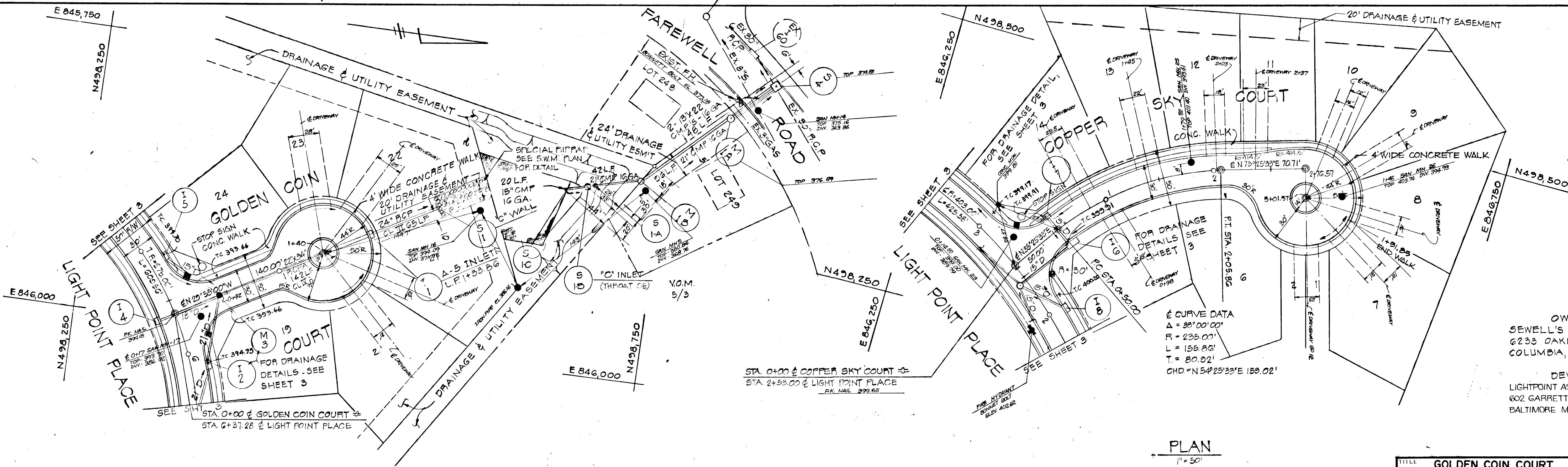








DATE	
BY	
REVISION	
NO.	
PLAN	
NOTE BOOK	
NO.	



PLAN  
1" = 50'

STA. 0+00 @ COPPER SKY COURT  
STA. 2+53.00 @ LIGHT POINT PLACE  
P.L. 402.25

PLAN  
1" = 50'

AS-BUILT AUG. 13, 1982  
AS-BUILT SURVEY CERTIFIED BY  
WILLIAM G. HARTEL MD. REG.  
LAND SURVEYOR NO. 34296

6-28-79 REVISED ROAD PROFILES BY:G.M.

APPROVED DEPARTMENT OF PUBLIC WORKS	
DATE	4-24-79
CHIEF, BUREAU OF ENGINEERING	
APPROVED OFFICE OF PLANNING AND ZONING	
DATE	2-17-79
CHIEF, DIVISION OF LAND DEVELOPMENT	

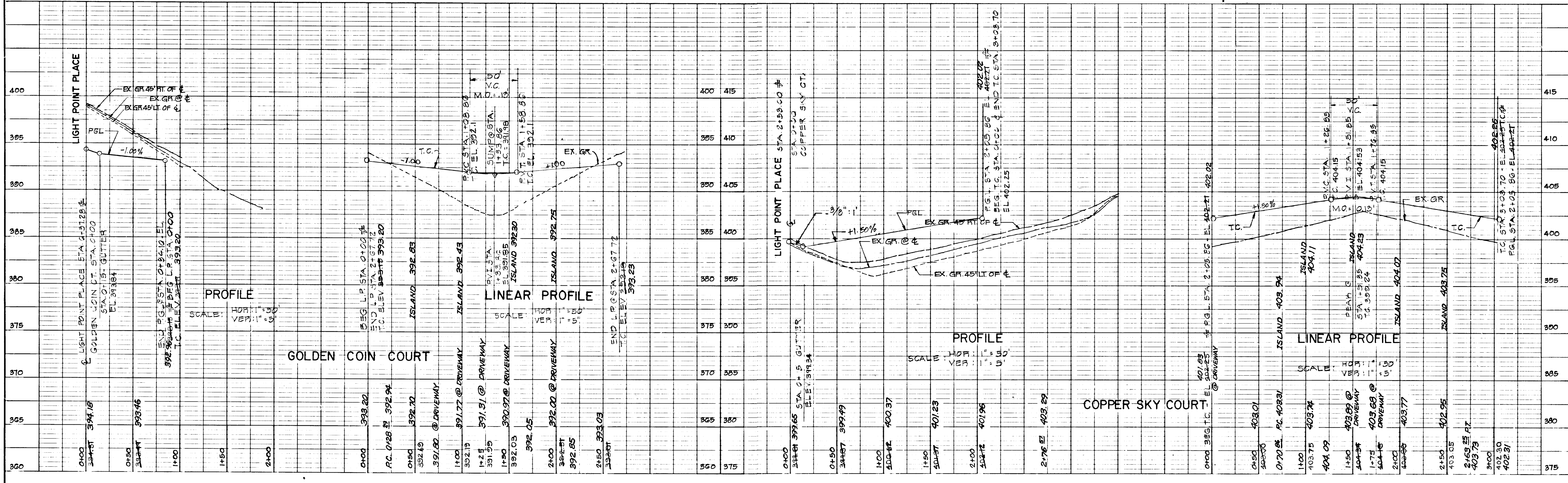
TITLE: GOLDEN COIN COURT - ROAD CONSTRUCTION PLANS			
PROJECT: MARBELLA II			
LOCATION: GTH ELECTION DISTRICT HOWARD COUNTY, MD.			
DATE: DEC, 1978	DESIGN BY: R.L.M./W.H.N.	DRAWN BY: C.H., J.J.B., W.H.N.	CHECKED BY: R.L.M.
SCALE: AS SHOWN	JOB NO.: 78251	DRAWING NO.: 4 OF 14	
boender associates		engineers/surveyors/planners	
BALTIMORE 301-465-7777 SALISBURY 301-749-1286			

OWNER  
SEWELL'S ORCHARD  
6235 OAKLAND MILLS ROAD  
COLUMBIA, MARYLAND 21045

DEVELOPER  
LIGHTPOINT ASSOCIATES  
602 GARRETT BUILDING  
BALTIMORE MD 21202



DATE	
BY	
REVISION	
NO.	
PROFILE	
NOTE BOOK	
NO.	



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

LINEAR PROFILE  
SCALE: HORIZ. 1" = 50'  
VERT. 1" = 5'

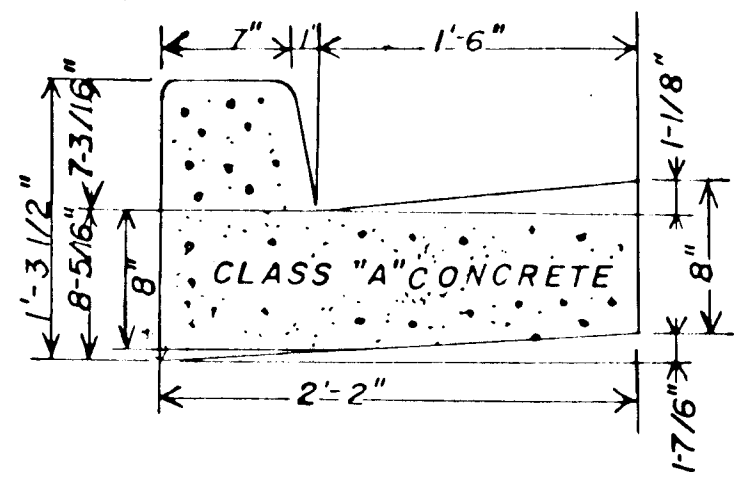
PROFILE  
SCALE: HORIZ. 1" = 50'  
VERT. 1" = 5'

LINEAR PROFILE  
SCALE: HORIZ. 1" = 50'  
VERT. 1" = 5'

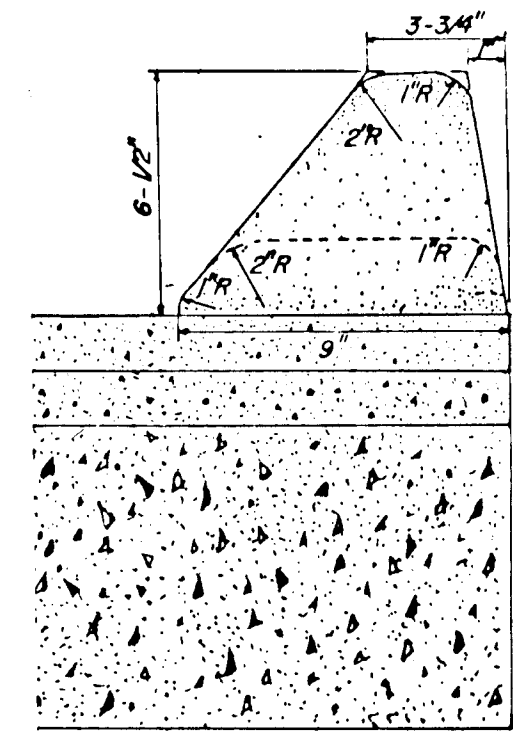
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STANDARD 7" COMBINATION CURB & GUTTER

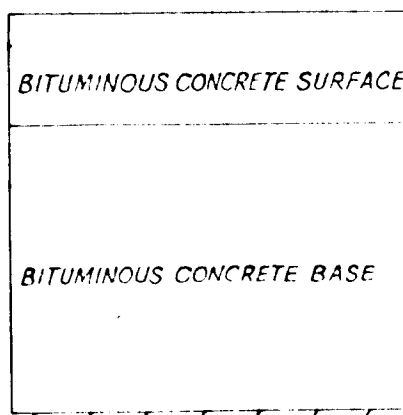


DRWG. D-40 PG. 05



STD. MOUNTABLE CURB

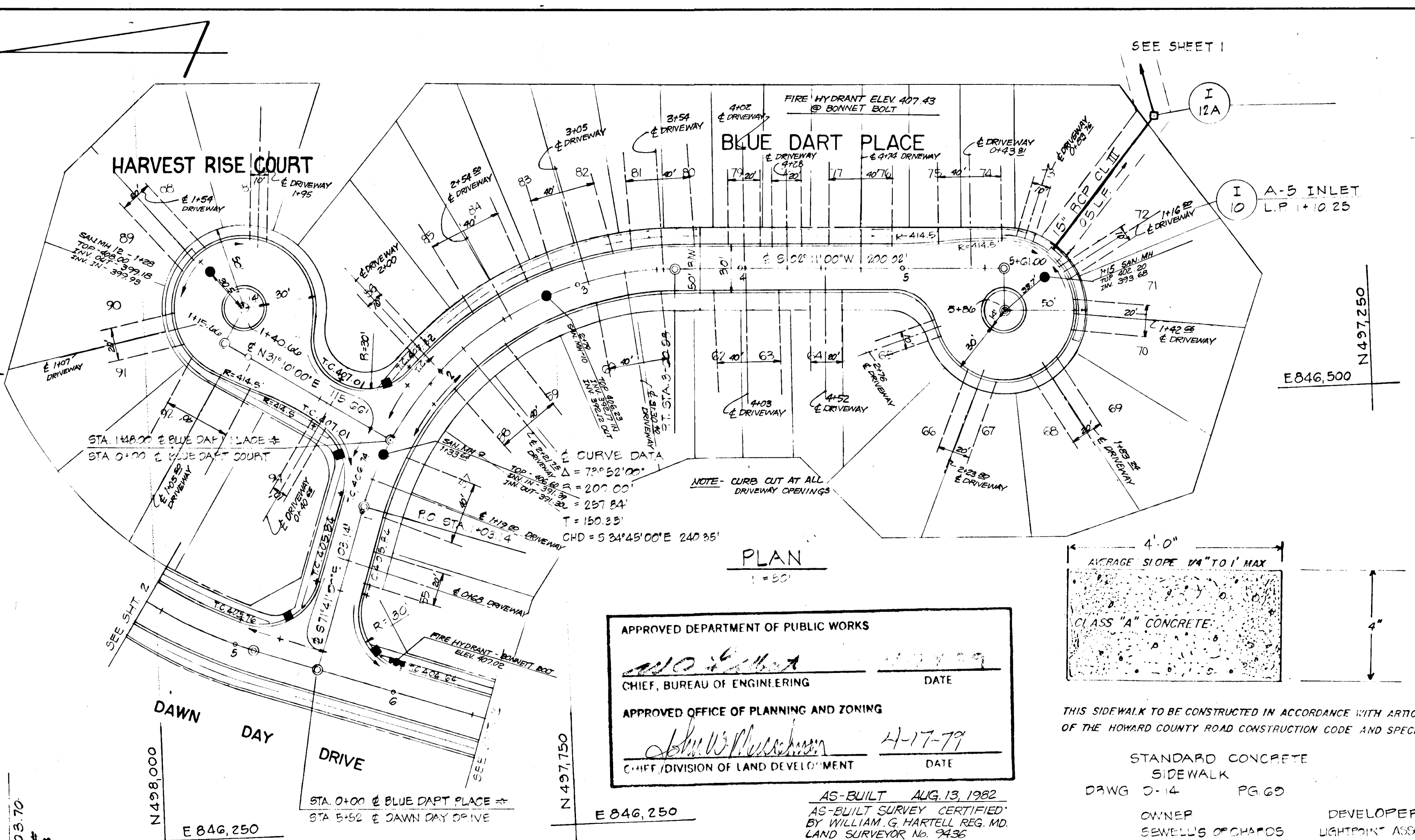
NOT TO SCALE  
CP-WS D-30 PG. 04



CLEARING and GRADING: ARTICLE C-1  
SURGRADE: ARTICLE C-2  
BASE COURSE: ARTICLE C-33  
SURFACE COURSE: ARTICLE C-31

TO BE CONSTRUCTED IN ACCORDANCE WITH THE HOWARD COUNTY ROAD CONSTRUCTION CODE AND SPECIFICATIONS DRAWING D-5 PAGE 60

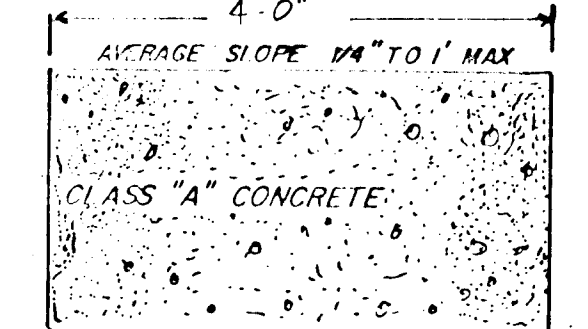
1. THE PAGE WILL BE REVISED IN ACCORDANCE WITH SECTION C-30.3 AS PROVIDED IN THE HOWARD COUNTY ROAD CONSTRUCTION CODE AND STANDARD SPECIFICATIONS.
2. A TACK COAT IS REQUIRED IN ACCORDANCE WITH SECTION C-2.4 OF THE HOWARD COUNTY ROAD CONSTRUCTION CODE AND STANDARD SPECIFICATION.



PLAN

APPROVED DEPARTMENT OF PUBLIC WORKS  
*William G. Hartell*  
CHIEF, BUREAU OF ENGINEERING DATE 4-17-79

APPROVED OFFICE OF PLANNING AND ZONING  
*John W. ...*  
CHIEF, DIVISION OF LAND DEVELOPMENT DATE 4-17-79

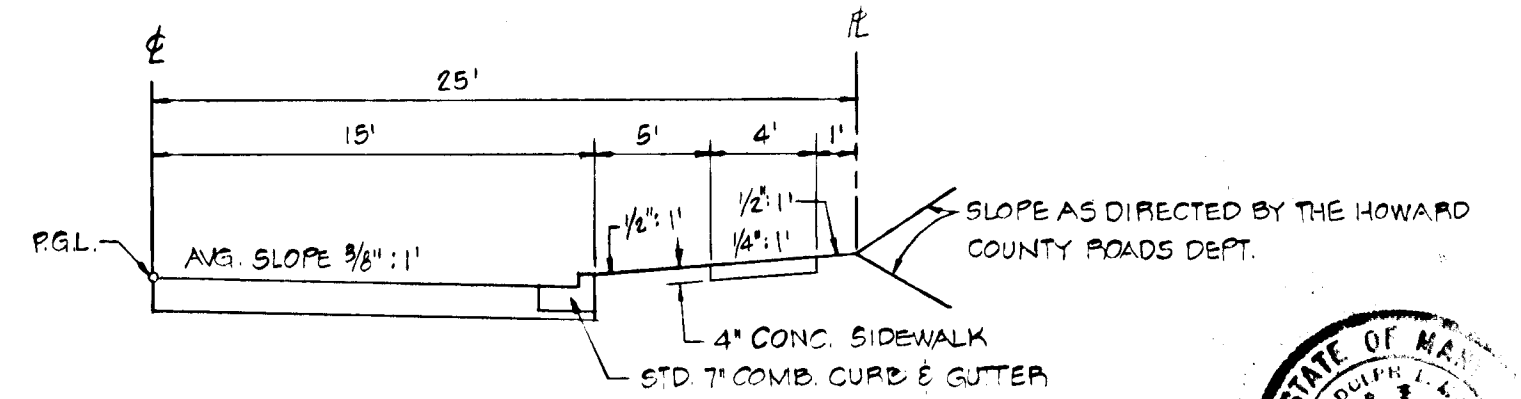


THIS SIDEWALK TO BE CONSTRUCTED IN ACCORDANCE WITH ARTICLE C-33 OF THE HOWARD COUNTY ROAD CONSTRUCTION CODE AND SPECIFICATIONS

STANDARD CONCRETE SIDEWALK  
DRWG. D-14 PG. 00

OWNER: SEMVELL'S OPERATORS  
6225 OAKLAND MILLS RD.  
COLUMBIA, MD 21045

DEVELOPER: LIGHTPOINT ASSOCIATES  
602 GARRETT BUILDING  
BALTIMORE, MD 21202

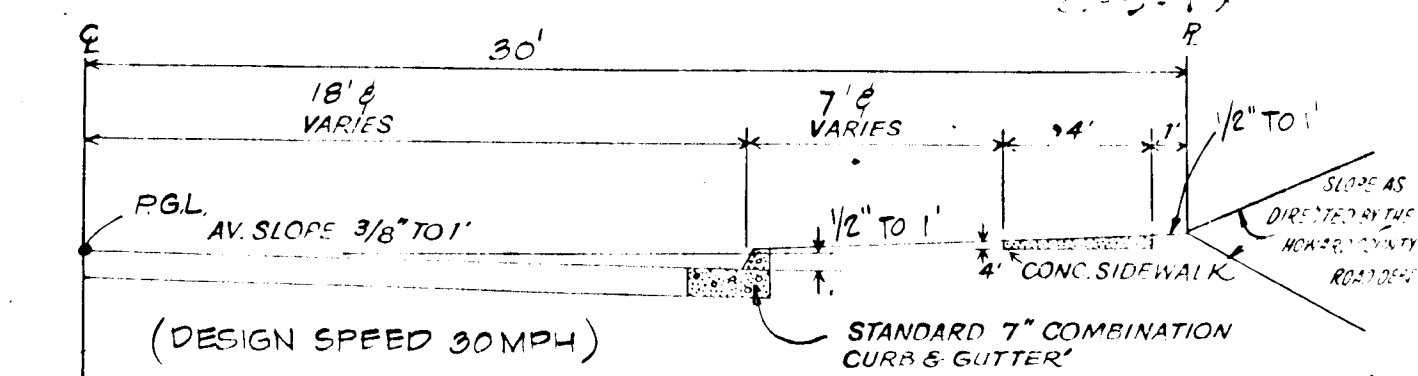


TYPICAL HALF SECTION

FOR DAWN DAY DRIVE STA. 2+87.26 TO END LIGHT POINT PLACE, BLUE DART PLACE, HARVEST RISE COURT, COPPER SKY COURT, GOLDEN COIN COURT

NOT TO SCALE  
RESIDENTIAL STREET  
DESIGN SPEED: 25 MPH EX. ZONING: R30  
DRWG. D-17 PAGE 72

*Barbara M. ...*



Typical Howard County Collector Street

DRAWING D-18 (MAX. 1984) Page 73  
PAVING SECTION FOR DAWN DAY DRIVE STA. 0+00 TO 3+00 ZONING R-50

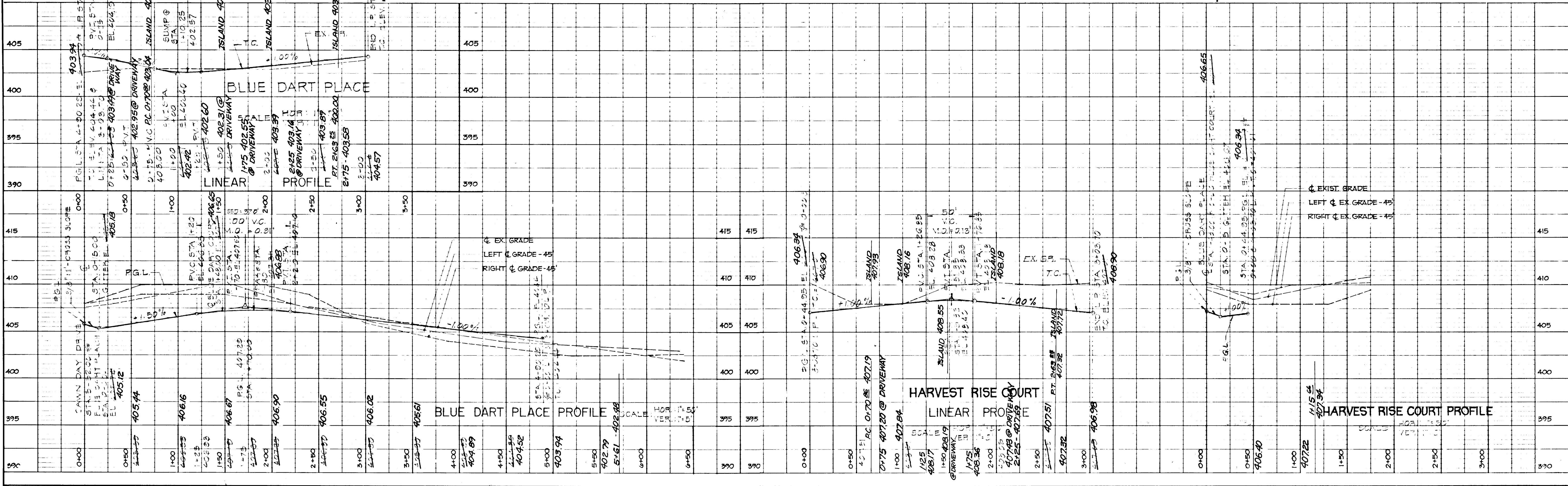
**BLUE DART PLACE HARVEST RISE COURT ROAD CONSTRUCTION PLANS**

PROJECT: MARBELLA II  
LOCATION: 6TH ELECTION DISTRICT HOWARD COUNTY, MD  
DATE: DEC, 1978 DESIGN BY: WMN/PLM DRAWN BY: WMN/CLC/JJP CHECKED BY: RLM  
SCALE: AS SHOWN JOB NO.: 78251 DRAWING NO.: 5 OF 14

boender associates engineers/surveyors/planners  
BALTIMORE 301 465 7777 SALISBURY 301 749 1286

DATE	BY

DATE	BY

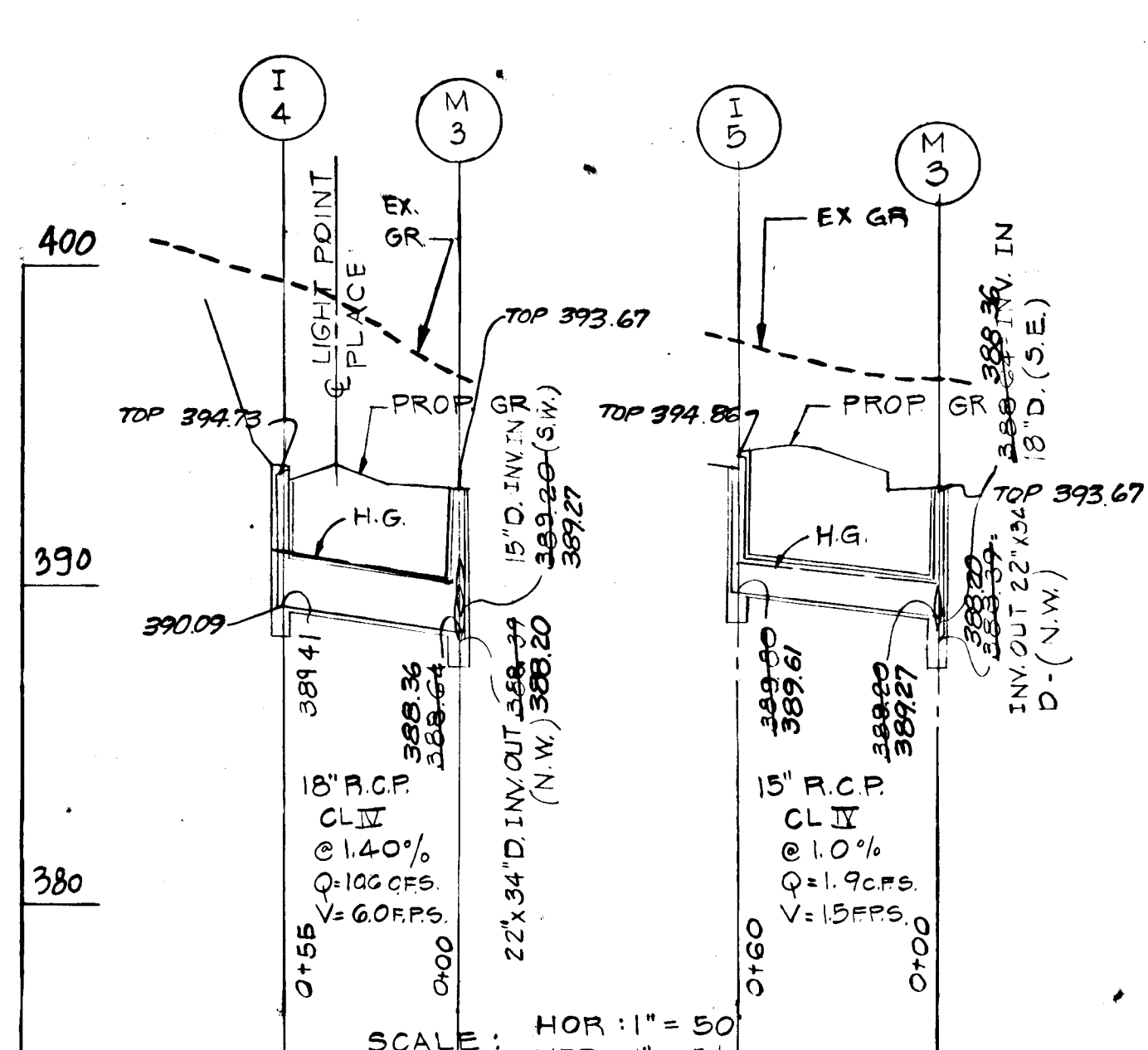
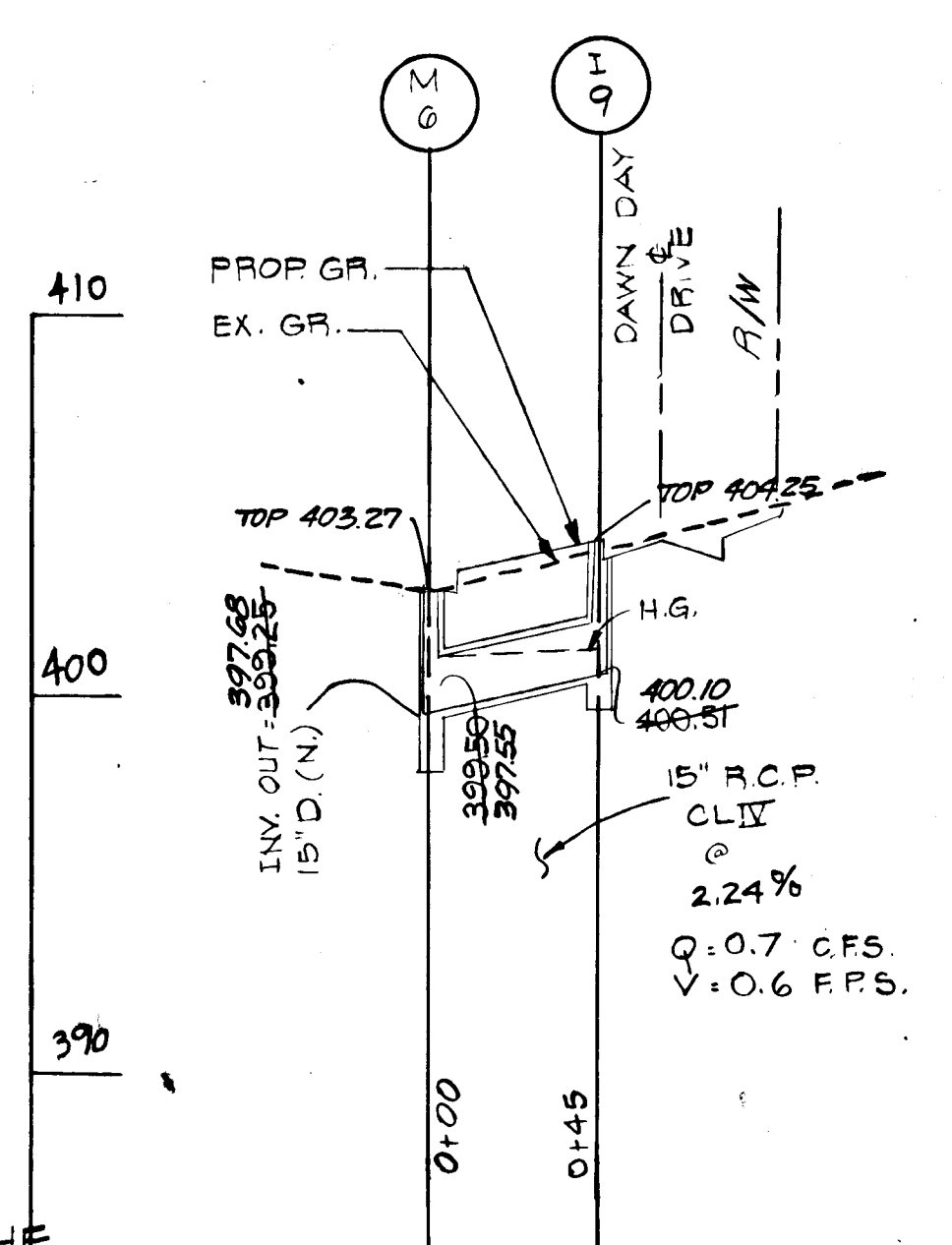
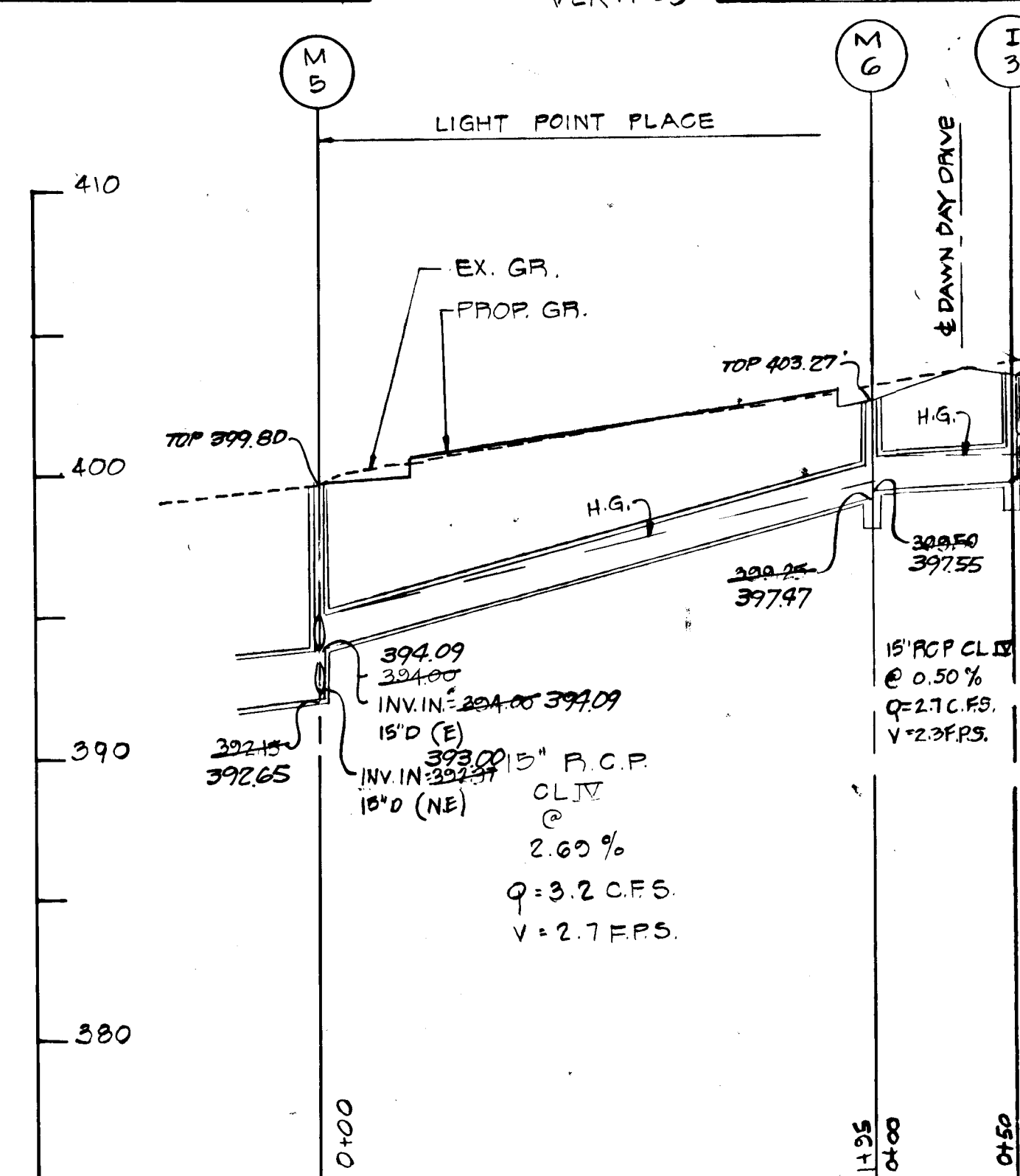
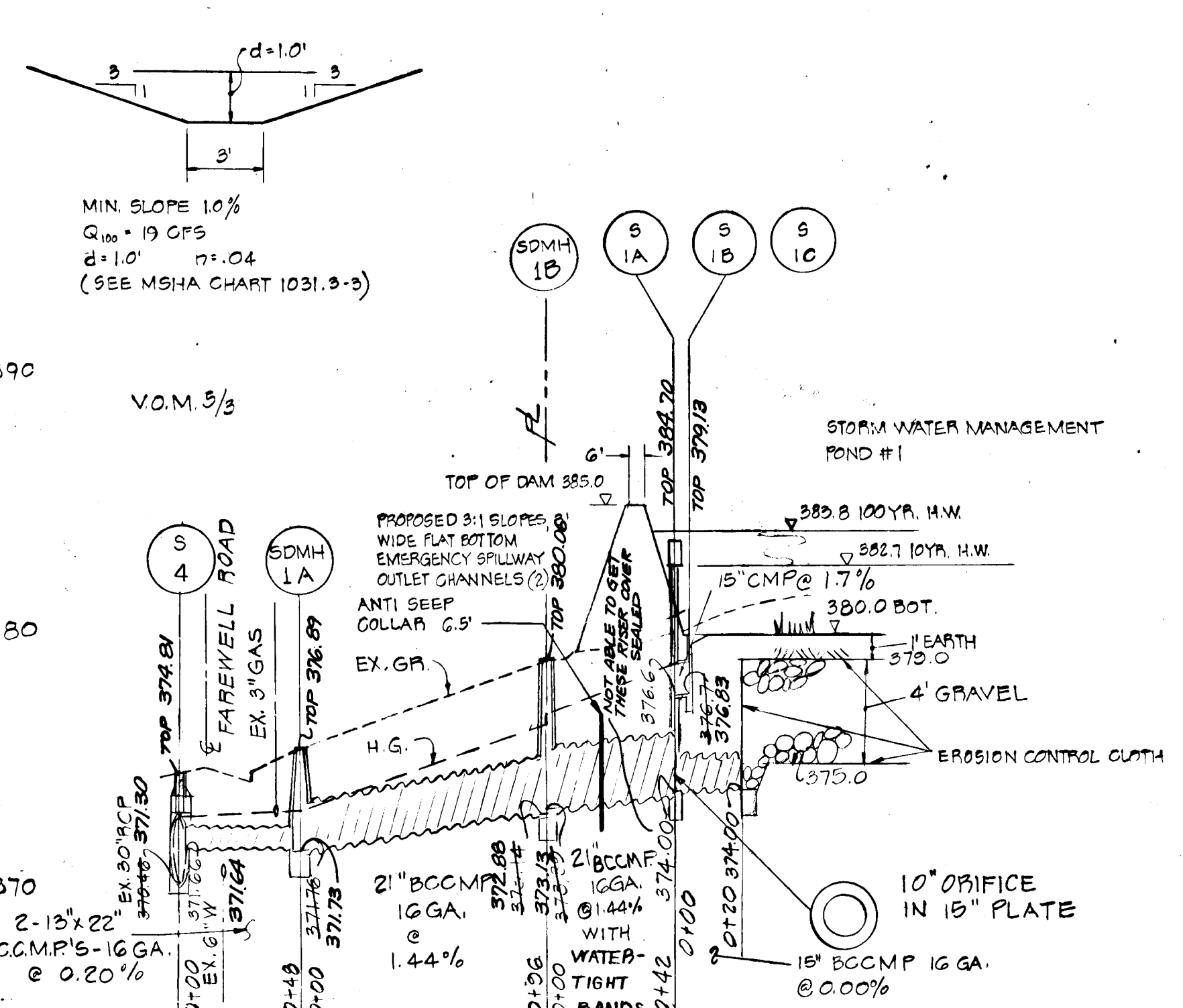
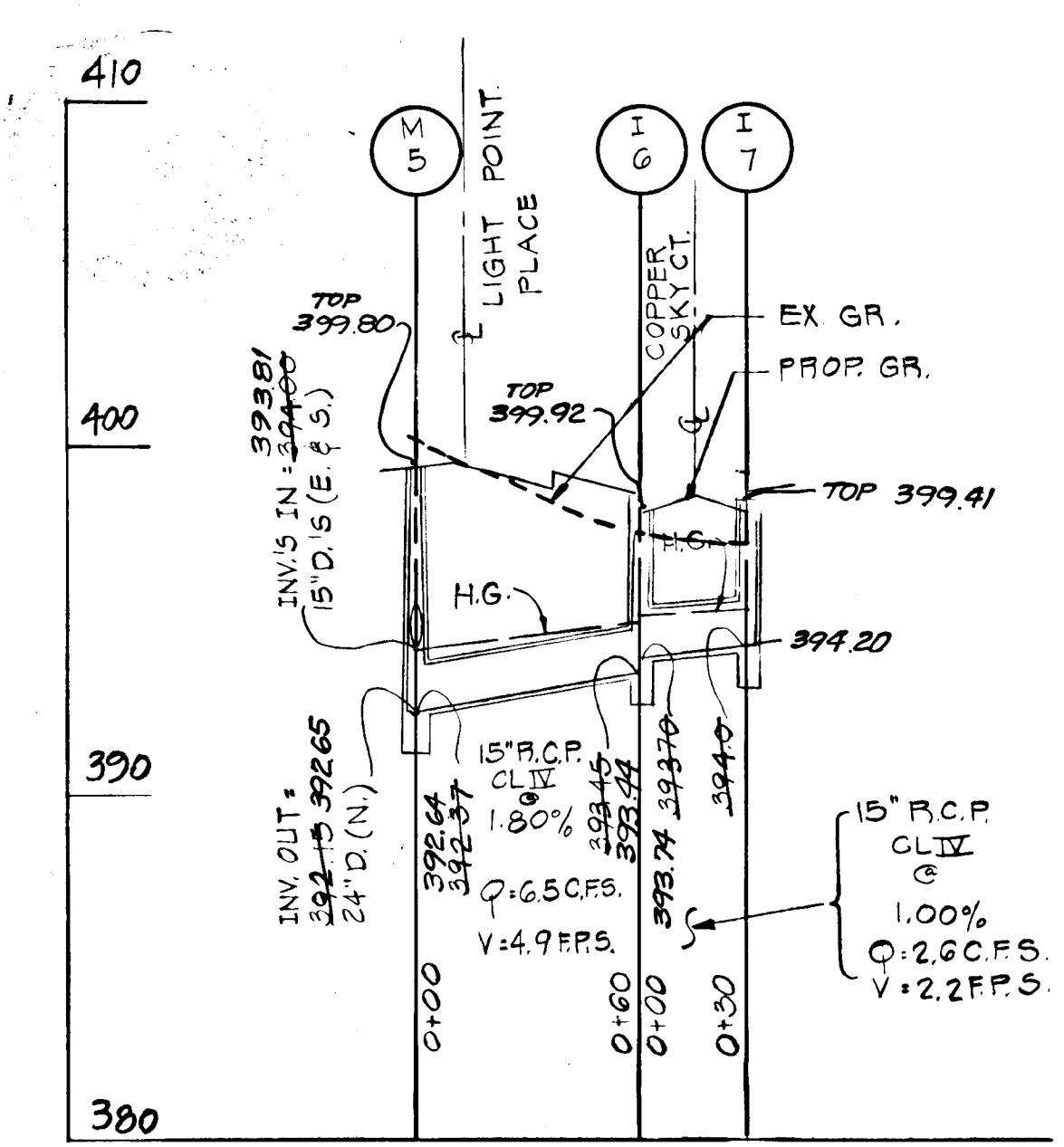
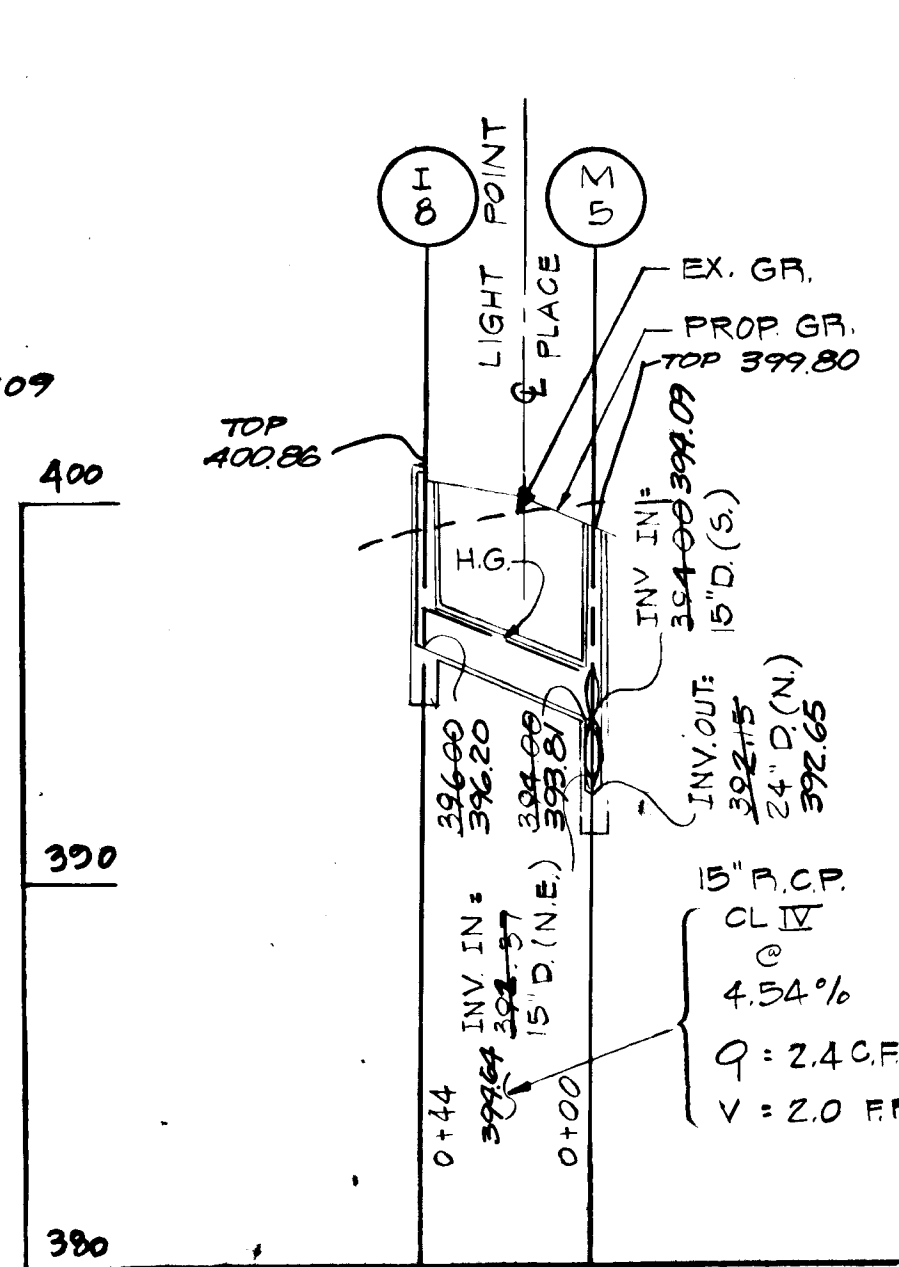
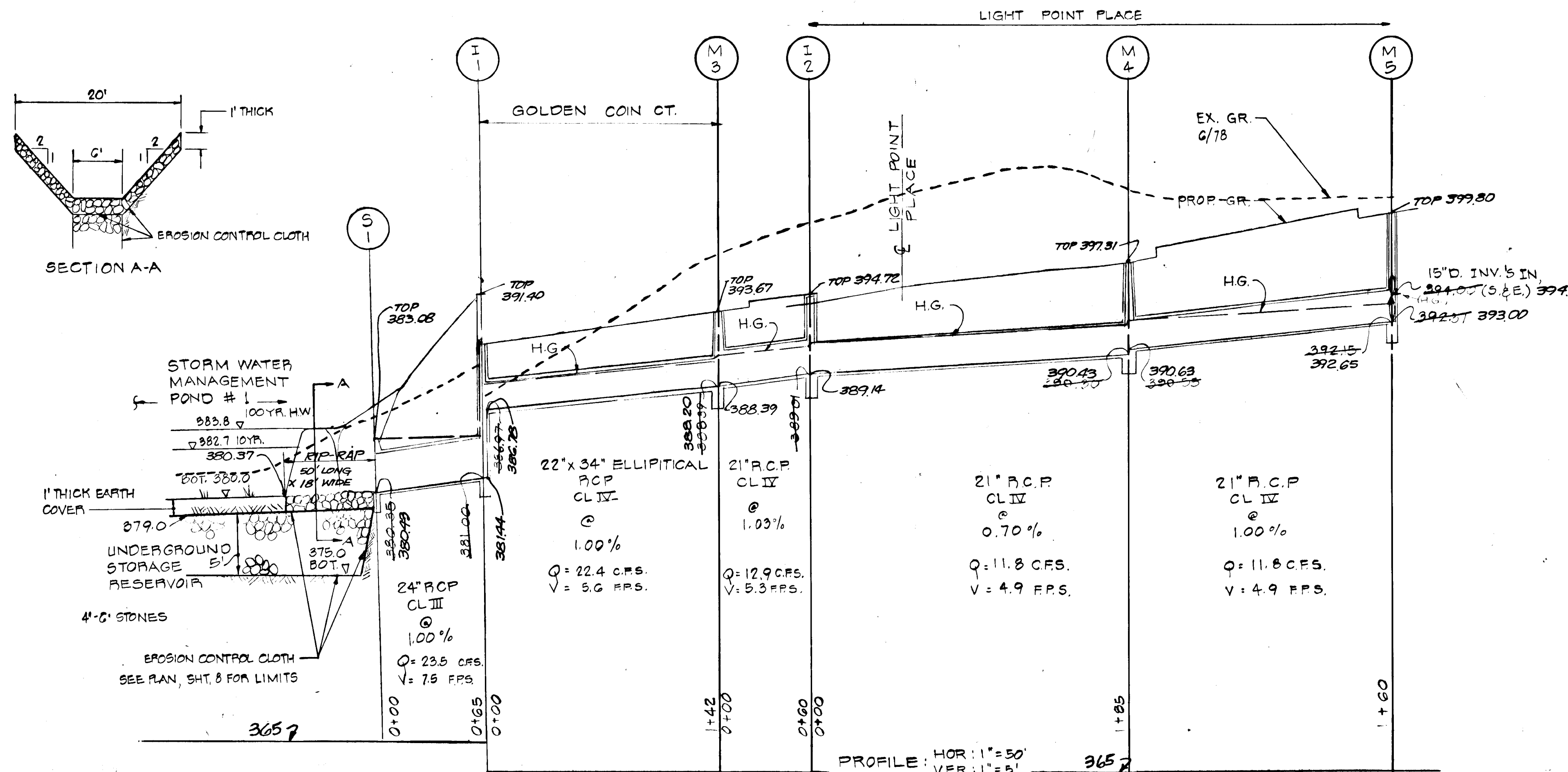


BLUE DART PLACE PROFILE

HARVEST RISE COURT PROFILE

HARVEST RISE COURT PROFILE





CERTIFICATION BY THE DEVELOPER

I CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THESE PLANS OF DEVELOPMENT AND PLANS FOR A POND AND I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD COUNTY SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS AS ARE DEEMED NECESSARY. DEVIATIONS FROM THESE PLANS WILL NOT BE MADE UNLESS AUTHORIZED BY THE HOWARD COUNTY SOIL CONSERVATION DISTRICT.

AS-BUILT 8-13-82  
AS-BUILT SURVEY CERTIFIED BY WILLIAM G. HARTEL, MD REG. LAND SURVEYOR No. 9436

OWNER  
SEWELL'S ORCHARD  
6233 OAKLAND MILLS ROAD  
COLUMBIA, MARYLAND 21045

DEVELOPER  
LIGHTPOINT ASSOCIATES  
602 GARRETT BUILDING  
BALTIMORE, MD 21202

NO.	TYPE	INV. IN	INV. OUT	TOP ELEV.	REMARKS
I-1	HO. CO. STD. CLASS A-5 INLET	386.79	381.44	391.40	SEE HO. CO. DRWG. G-4-A, PG. 119A
I-2	HO. CO. STD. CLASS A-5 INLET	389.07	384.00	394.09	SEE HO. CO. DRWG. G-4-A, PG. 119A
I-3	HO. CO. STD. CLASS A-5 INLET	389.14	384.00	394.09	SEE HO. CO. DRWG. G-4-A, PG. 119A
I-4	HO. CO. STD. CLASS A-10 INLET	389.14	384.00	394.09	SEE HO. CO. DRWG. G-4-A, PG. 119A
I-5	HO. CO. STD. CLASS A-5 INLET	389.14	384.00	394.09	SEE HO. CO. DRWG. G-4-A, PG. 119A
I-6	HO. CO. STD. CLASS A-10 INLET	389.14	384.00	394.09	SEE HO. CO. DRWG. G-4-A, PG. 119A
I-7	HO. CO. STD. CLASS A-5 INLET	389.14	384.00	394.09	SEE HO. CO. DRWG. G-4-A, PG. 119A
I-8	HO. CO. STD. CLASS A-10 INLET	389.14	384.00	394.09	SEE HO. CO. DRWG. G-4-A, PG. 119A
I-9	HO. CO. STD. CLASS A-5 INLET	389.14	384.00	394.09	SEE HO. CO. DRWG. G-4-A, PG. 119A
S1-A	24" DIA. R.C.P. RISER	376.60	376.60	376.60	SEE DETAIL, SHT. 10 OF 14
S1	HO. CO. STD. TYPE "C" ENDWALL	389.14	384.00	394.09	SEE HO. CO. DRWG. D-52, PG. 107
M-1	HO. CO. STD. MANHOLE	371.73	371.73	371.73	SEE HO. CO. DRWG. D-103, PG. 158
M-2	HO. CO. STD. MANHOLE	389.27	389.27	389.27	SEE HO. CO. DRWG. D-103, PG. 158
M-3	HO. CO. STD. MANHOLE	390.63	390.63	390.63	SEE HO. CO. DRWG. D-103, PG. 158
M-4	HO. CO. STD. MANHOLE	394.09	394.09	394.09	SEE HO. CO. DRWG. D-103, PG. 158
M-5	HO. CO. STD. MANHOLE	397.65	397.65	397.65	SEE HO. CO. DRWG. D-103, PG. 158
M-6	HO. CO. STD. MANHOLE	397.65	397.65	397.65	SEE HO. CO. DRWG. D-103, PG. 158
S1-B	HO. CO. STD. "C" INLET	376.60	376.60	376.60	SEE HO. CO. DRWG. D-64-C, PG. 110-C
S1-C	SLAB AND SCREEN	372.0	372.0	372.0	SEE DETAIL, SHT. 10 OF 14
S-4	HO. CO. STD. JUNCTION BOX	371.66	371.66	371.66	SEE HO. CO. DRWG. D-108, PG. 108

CERTIFICATION BY THE ENGINEER

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

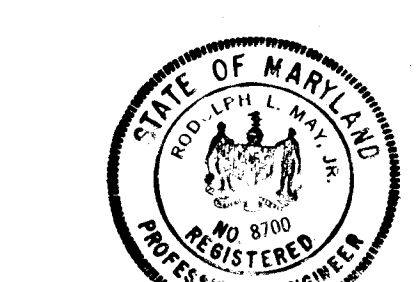
*Rodolph May Jr.*  
RODOLPH L. MAY JR.  
PROFESSIONAL ENGINEER

THESE PLANS FOR SMALL POND CONSTRUCTION MEET THE REQUIREMENTS OF THE HOWARD COUNTY SOIL CONSERVATION DISTRICT.

*Robert D. Zehner*  
APPROVED HO. CO. S.C.D. DATE 4-17-79

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SMALL POND CONSTRUCTION.

*Wendell Burdette*  
U.S. SOIL CONSERVATION SERVICE DATE 4-17-79



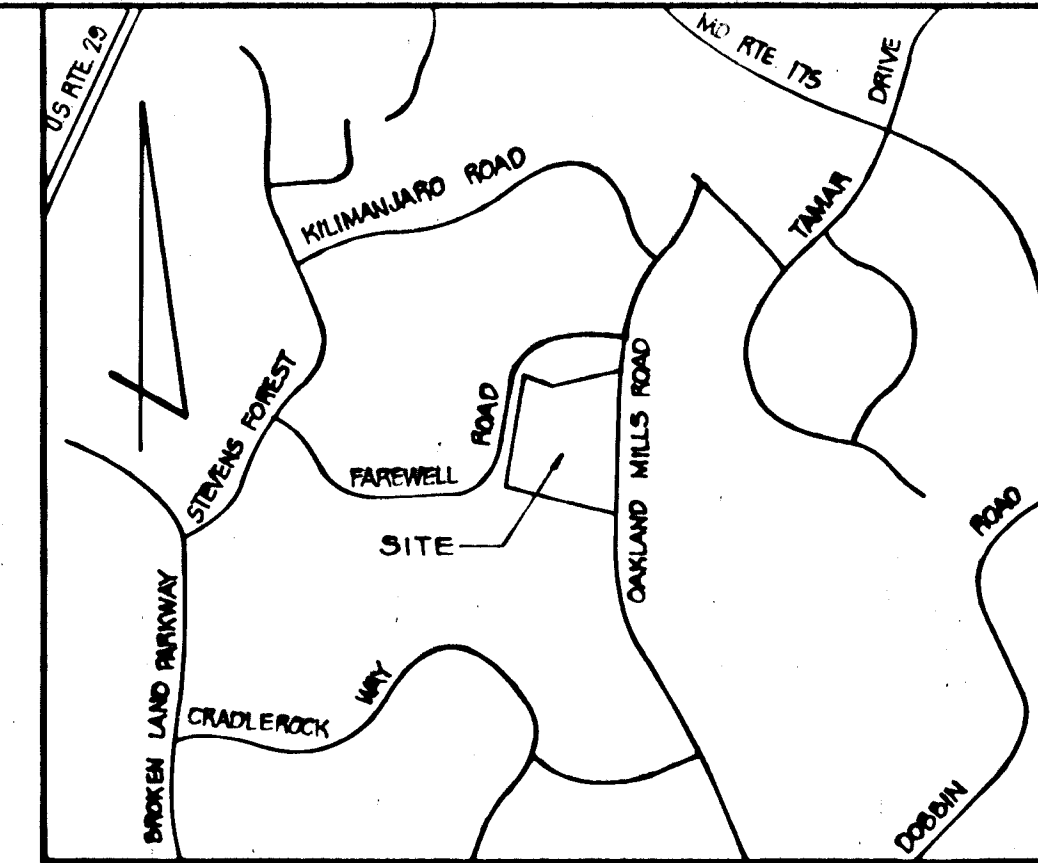
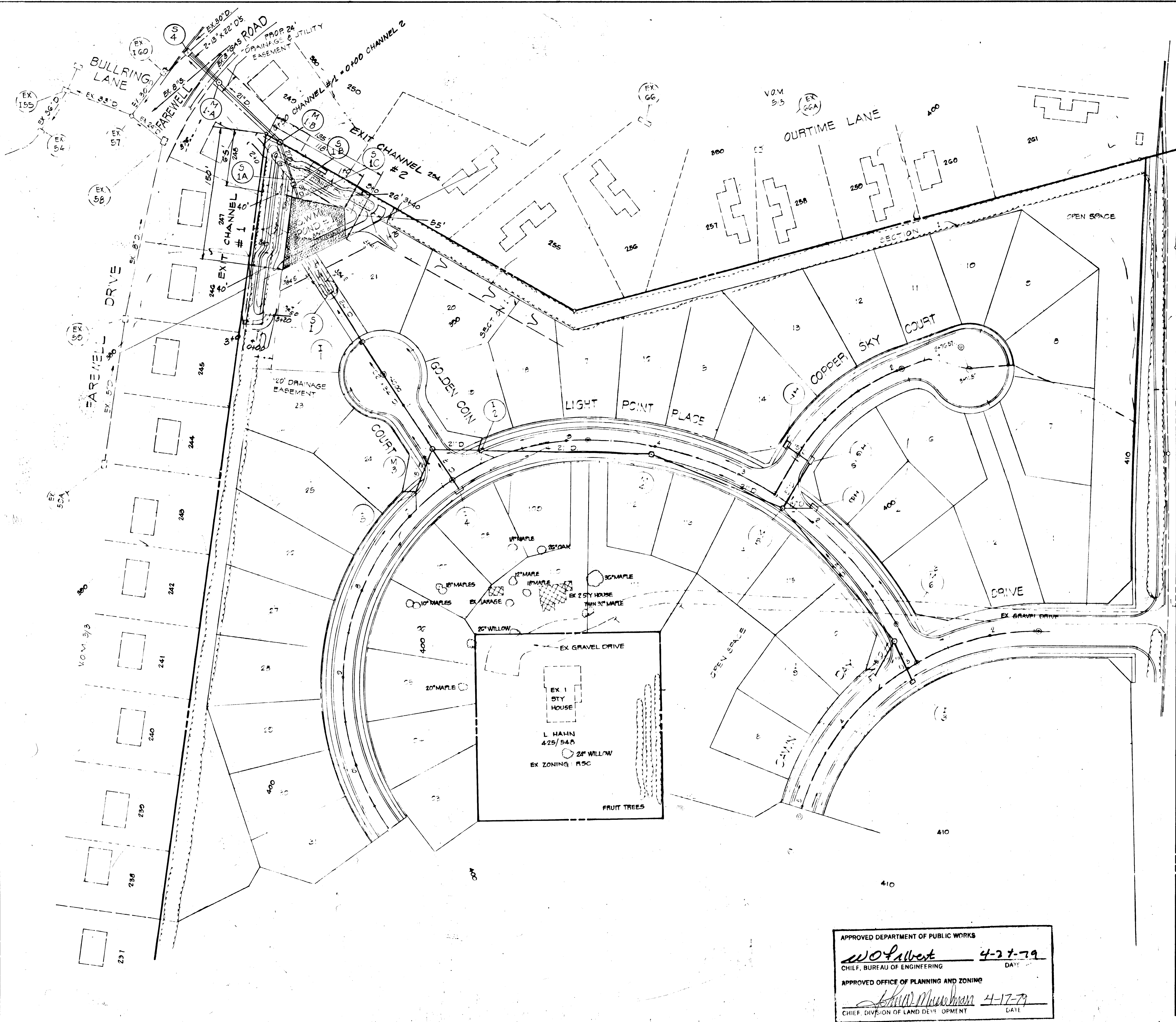
*Rodolph May Jr.*  
2-5-79

6-28-79 - REVISED STORM DRAIN PROFILES BY: G.M.  
APPROVED DEPARTMENT OF PUBLIC WORKS  
*W. O. F. White* 4-24-79  
CHIEF, BUREAU OF ENGINEERING DATE  
APPROVED OFFICE OF PLANNING AND ZONING  
*Charles M. Newman* 4-17-79  
CHIEF, DIVISION OF LAND DEVELOPMENT DATE

TITLE: STORM DRAIN PROFILES  
PROJECT: MARBELLA II -  
LOCATION: 8TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND  
DATE: JAN. 1979 DESIGN BY: W.H.N. DRAWN BY: W.H.N. CHECKED BY: P.L.M.  
SCALE: HOR: 1"=50' JOB NO.: 70251 DRAWING NO.: 6 OF 14  
boender associates engineers/surveyors/planners  
SUITE 102-107 TOWN & COUNTRY PROFESSIONAL BUILDING  
ELLIOTT CITY, MARYLAND 21041  
BALTIMORE 301-468-7777 SALISBURY 301-748-1288







VICINITY MAP  
SCALE: 1" = 2000'

OAKLAND MILLS ROAD

**CERTIFICATION BY THE ENGINEER**  
I CERTIFY THAT THIS PLAN FOR A POND REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD COUNTY SOIL CONSERVATION DISTRICT.

*Rodolph May Jr.*  
PROFESSIONAL ENGINEER

**CERTIFICATION BY THE DEVELOPER**  
I CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THESE PLANS OF DEVELOPMENT AND PLANS FOR A POND AND I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD COUNTY SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS AS ARE DEEMED NECESSARY. DEVIATIONS FROM THESE PLANS WILL NOT BE MADE UNLESS AUTHORIZED BY THE HOWARD COUNTY SOIL CONSERVATION DISTRICT.

*L. Bullinger*  
DEVELOPER

2-5-79  
DATE

THESE PLANS FOR SMALL POND CONSTRUCTION MEET THE REQUIREMENTS OF THE HOWARD COUNTY SOIL CONSERVATION DISTRICT.

*Robert W. Ziehn*  
APPROVED HOWCO S.C.D.

4-17-79  
DATE

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SMALL POND CONSTRUCTION.

*William Bennett*  
U.S. SOIL CONSERVATION SERVICE

4-17-79  
DATE

OWNER  
SEWELL'S ORCHARD  
2255 OAKLAND MILLS ROAD  
COLLIERIA, MARYLAND 21045

DEVELOPER  
LIGHTPOINT ASSOCIATES  
602 GARRETT BUILDING  
BALTIMORE, MD 21202



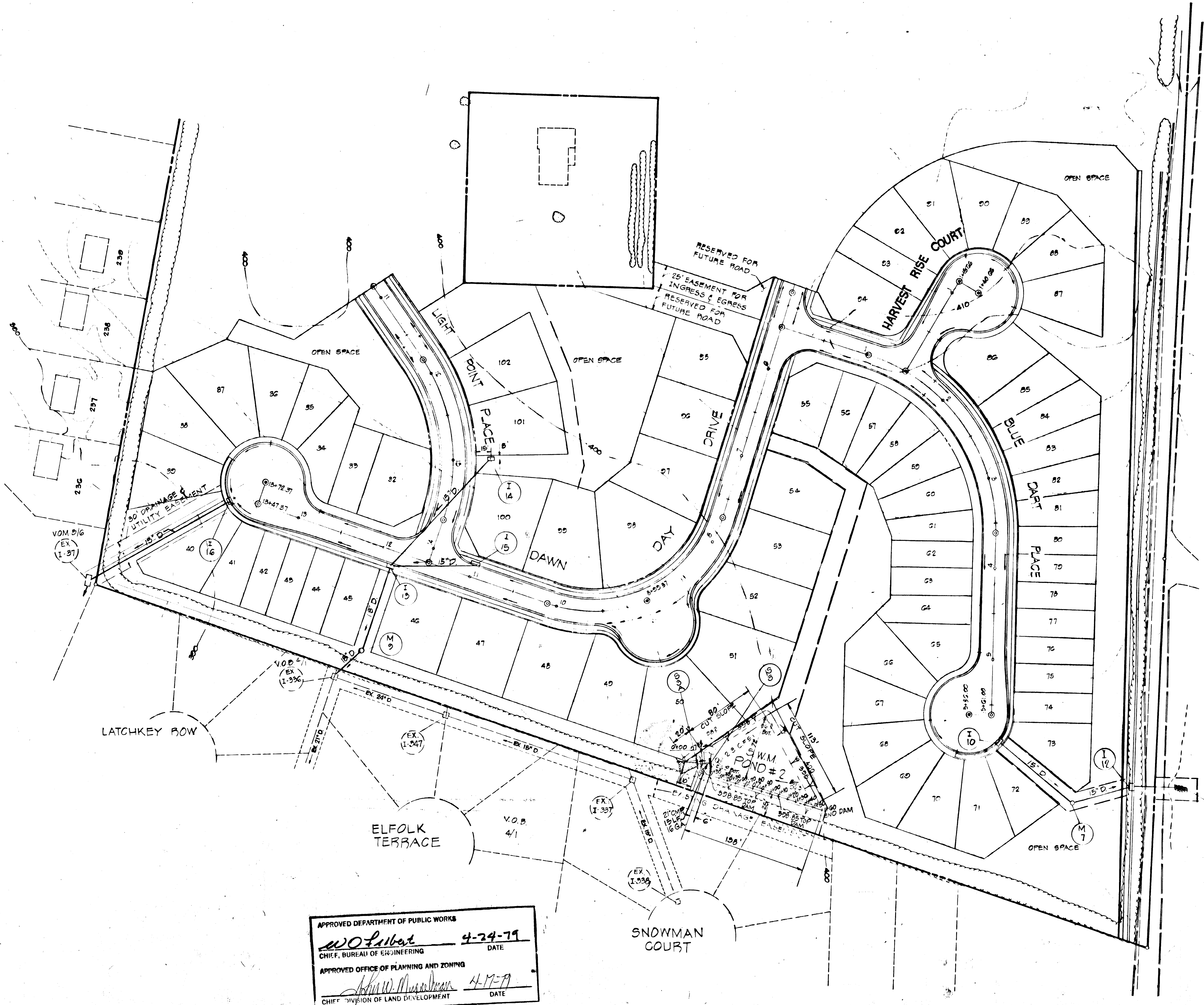
*Rodolph May Jr.*

APPROVED DEPARTMENT OF PUBLIC WORKS  
*W. O. Gilbert* 4-27-79  
CHIEF, BUREAU OF ENGINEERING DATE

APPROVED OFFICE OF PLANNING AND ZONING  
*John Muehlen* 4-17-79  
CHIEF, DIVISION OF LAND DEVELOPMENT DATE

PROJECT <b>STORM WATER MANAGEMENT PLAN MARBELLA II</b>				
LOCATION 6TH ELECTION DISTRICT		HOWARD COUNTY, MD		
DATE FEB, 1979	DESIGN BY B.L.M.	DRAWN BY J.J.D.	CHECKED BY R.L.M.	
SCALE 1" = 50'	JOB NO. 78251	DRAWING NO. 8 OF 14		
boender associates SUITE 102 107 TOWN & COUNTRY PROFESSIONAL BUILDING ELLCOTT CITY, MARYLAND 21043 BALTIMORE 301-468-7777 241 SPRING 301-749-1284				
engineers surveyors planners				





CERTIFICATION BY THE ENGINEER  
 I CERTIFY THAT THIS PLAN FOR A POND REPRESENTS A PRACTICAL AND NORMAL PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD COUNTY DISTRICT.  
  
 Robert M. ...  
 BOARD OF PROFESSIONAL ENGINEERS

CERTIFICATION BY THE DEVELOPER  
 I CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THESE PLANS OF DEVELOPMENT AND PLANS FOR A POND AND I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD COUNTY SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS AS ARE DEEMED NECESSARY. DEVIATIONS FROM THESE PLANS WILL NOT BE MADE UNLESS AUTHORIZED BY THE HOWARD COUNTY SOIL CONSERVATION DISTRICT.  
 Robert W. Zehn 2-5-77  
 DEVELOPER DATE

THESE PLANS FOR SMALL POND CONSTRUCTION MEET THE REQUIREMENTS OF THE HOWARD COUNTY SOIL CONSERVATION DISTRICT.  
 Robert W. Zehn 4-17-79  
 APPROVED HOWARD COUNTY SOIL CONSERVATION DISTRICT DATE

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SMALL POND CONSTRUCTION.  
 Wm. ... 4-17-79  
 U.S. SOIL CONSERVATION SERVICE DATE

OWNER  
 SEWELLS ORCHARD  
 6255 OAKLAND MILLS ROAD  
 COLUMBIA MARYLAND 21045

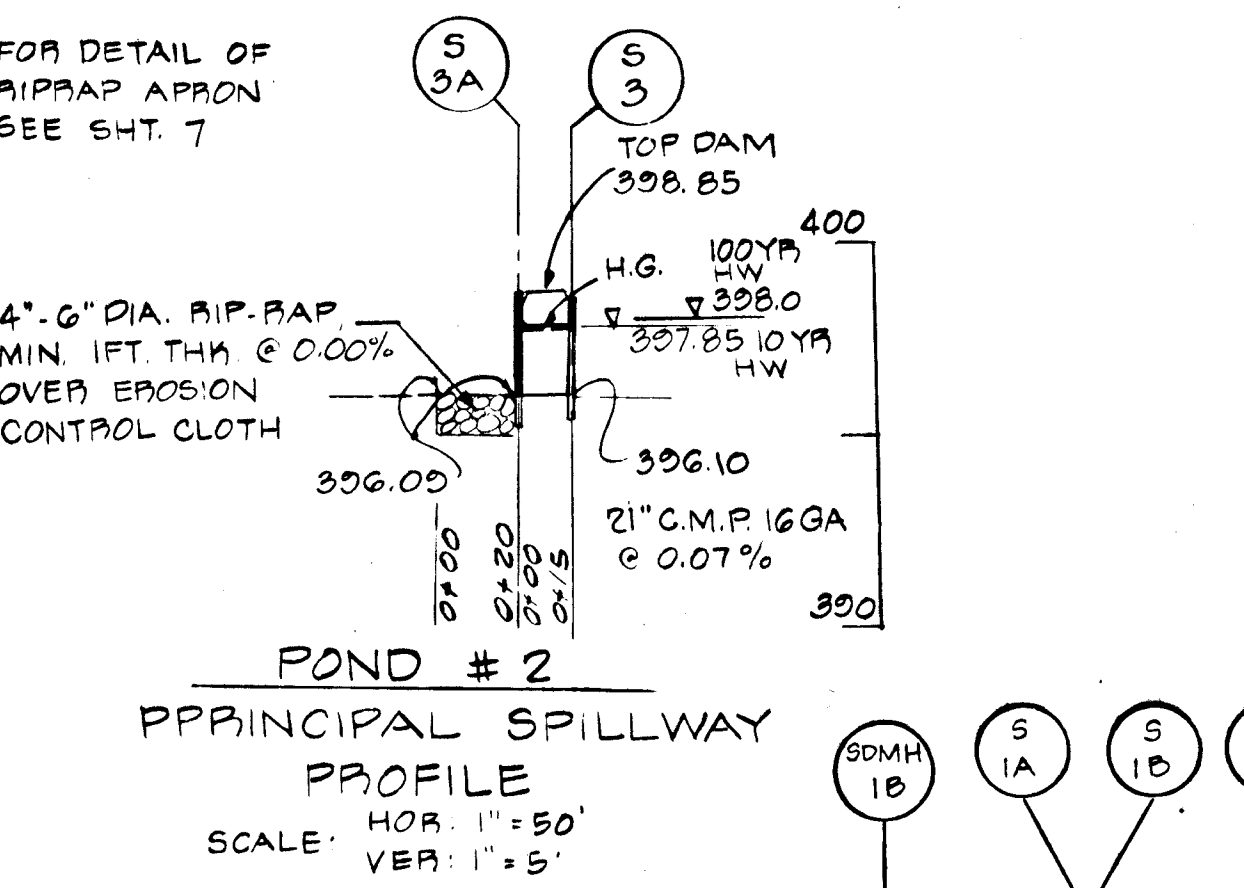
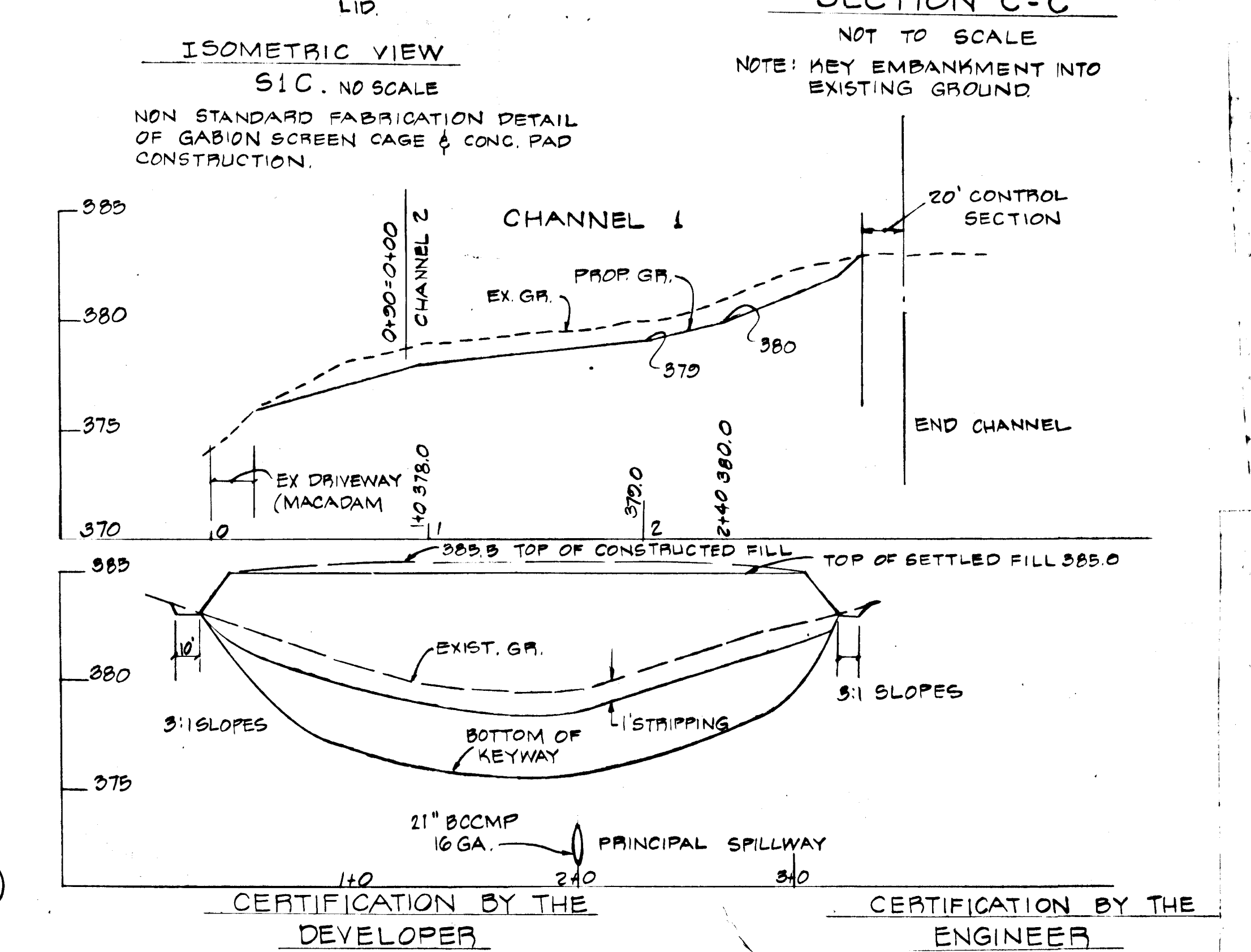
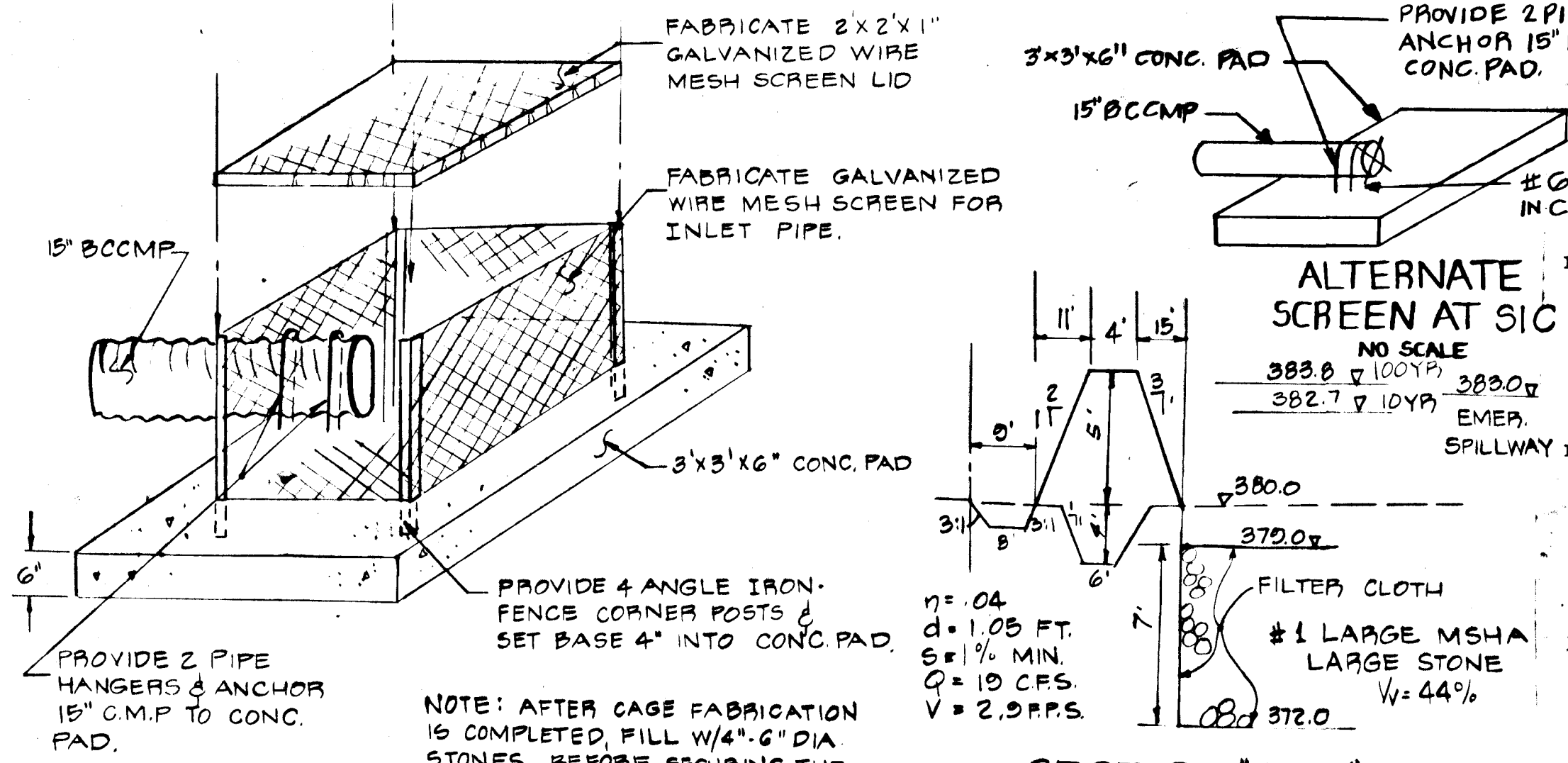
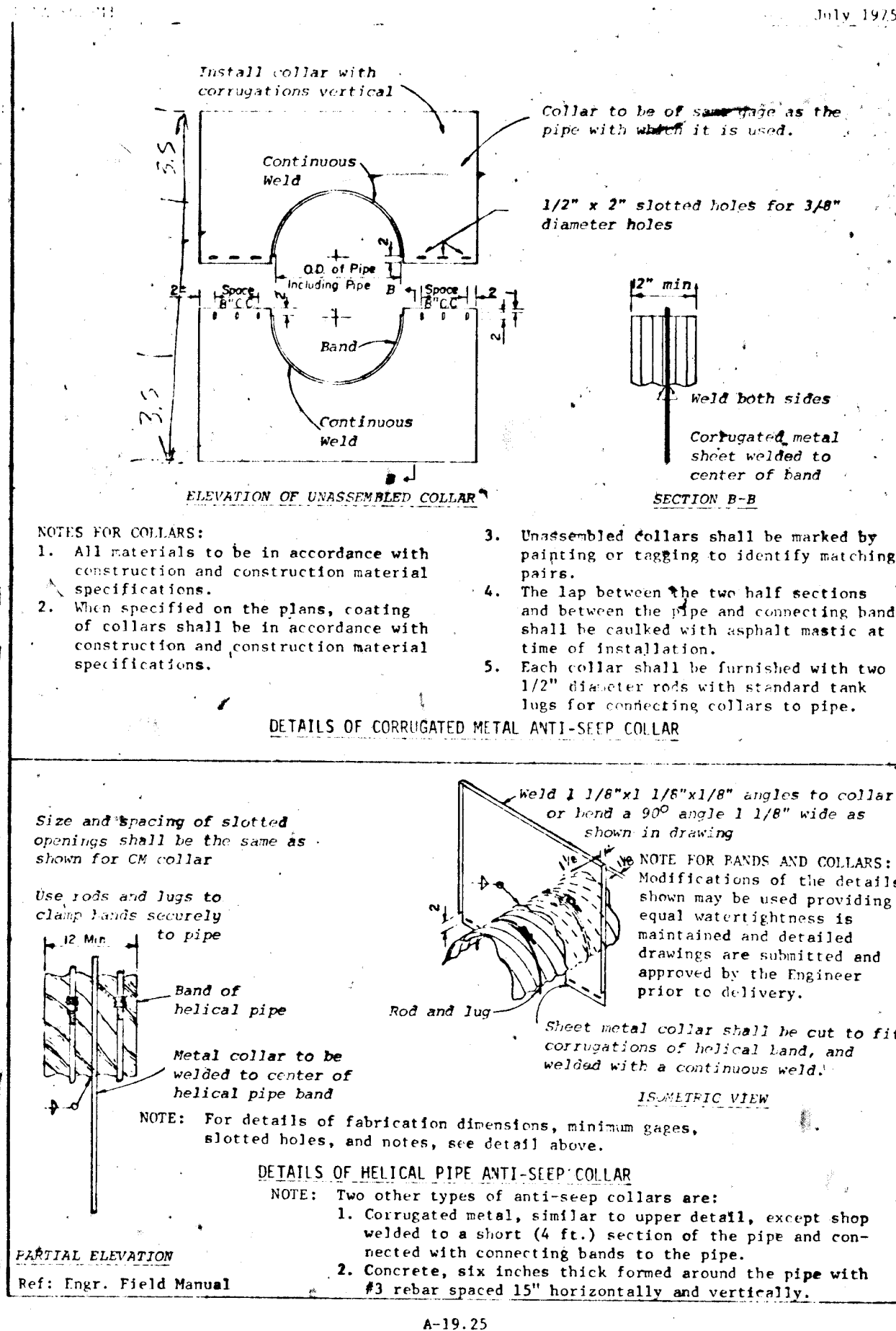
DEVELOPER  
 LIGHTPOINT ASSOCIATES  
 602 GARRETT BUILDING  
 BALTIMORE MD 21202

APPROVED DEPARTMENT OF PUBLIC WORKS  
 W. O. ... 4-24-79  
 CHIEF, BUREAU OF ENGINEERING DATE  
 APPROVED OFFICE OF PLANNING AND ZONING  
 ... 4-17-79  
 CHIEF, DIVISION OF LAND DEVELOPMENT DATE

POND # 2

TITLE STORM WATER MANAGEMENT PLAN			
PROJECT MARBELLA II			
LOCATION GTH ELECTION DISTRICT		HOWARD COUNTY, MD	
DATE DEC, 1978	DESIGN BY W.H.N.	DRAWN BY J.J.B.	CHECKED BY R.L.M.
SCALE 1" = 50'	JOB NO. 78251	DRAWING NO. 3 OF 14	
boender associates SUITE 102107 TOWN & COUNTRY PROFESSIONAL BUILDING ELLCOTT CITY, MARYLAND 21043 BALTIMORE 301-469-7777 SALISBURY 301-749-1298		engineers surveyors planners	





**CERTIFICATION BY THE DEVELOPER**  
 I CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THESE PLANS OF DEVELOPMENT AND PLANS FOR A POND AND I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD COUNTY SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS AS ARE DEEMED NECESSARY. DEVIATIONS FROM THESE PLANS WILL NOT BE MADE UNLESS AUTHORIZED BY THE HOWARD COUNTY SOIL CONSERVATION DISTRICT.

*L. Erdinger*  
 DEVELOPER - L. L. ARMIGER  
 DATE 2-5-79

**CERTIFICATION BY THE ENGINEER**  
 I CERTIFY THAT THIS PLAN FOR A POND REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD COUNTY SOIL CONSERVATION DISTRICT.

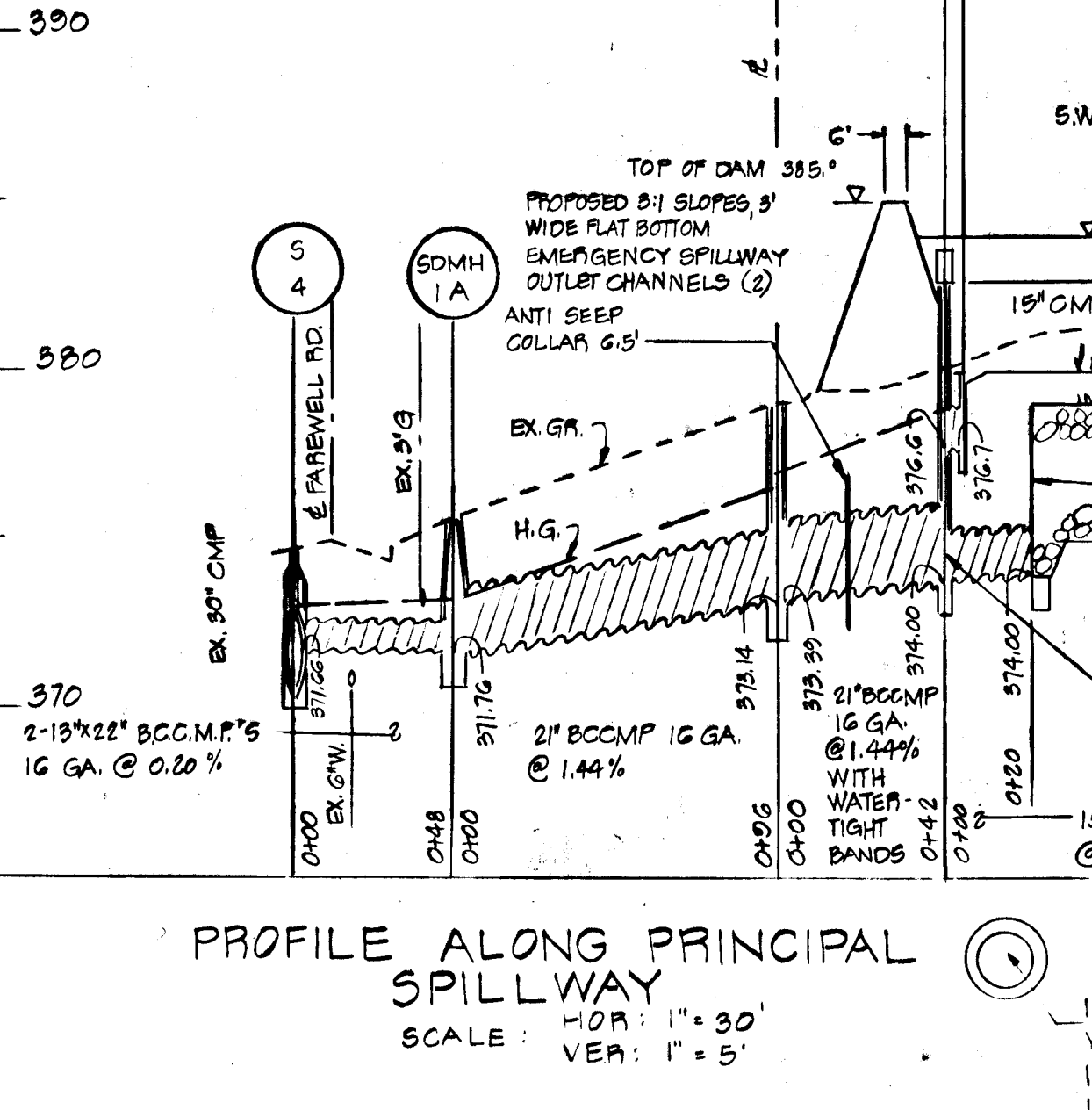
*Ralph May Jr.*  
 REGISTERED PROFESSIONAL ENGINEER  
 DATE 4-17-79

**APPROVED HO. CO. S.C.D.**  
 THESE PLANS FOR SMALL POND CONSTRUCTION MEET THE REQUIREMENTS OF THE HOWARD COUNTY SOIL CONSERVATION DISTRICT.

*Robert W. Ziehm*  
 APPROVED HO. CO. S.C.D.  
 DATE 4-17-79

**APPROVED DEPARTMENT OF PUBLIC WORKS**  
 THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SMALL POND CONSTRUCTION.

*Wanda Bonetto*  
 U.S. SOIL CONSERVATION SERVICE  
 DATE



**Storm Water Management Sample**  
**CONSTRUCTION SPECIFICATIONS**

**SITE PREPARATION**  
 Areas under the embankment and structural works shall be cleared, grubbed and the topsoil stripped to remove all trees, vegetation, roots or other objectionable material. To facilitate clean out and restoration, it is recommended that the permanent pool area be cleared of all brush and trees.

**EARTH FILL**  
 Material  
 The fill material shall be taken from approved designated borrow area or areas. It shall be free from roots, stumps, wood, rubbish, over-size stones, 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 all along the length of the embankment shall be increased at least 10 percent above the design elevation (including freeboard) unless otherwise shown on the plans.

**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 so that it can be formed into a ball without crumbling. If water can be squeezed out of the ball, it is too wet to compact properly.

**Core Trench**  
 Where specified, a core 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 governed by the equipment used for excavation, with the minimum width being four feet. The depth shall be at least four feet or as shown on the plans. The side slopes of the trench shall be 1 to 1 or flatter. The backfill material for the

- Bedding - The pipe shall be firmly and uniformly bedded throughout its entire length. Where rock or soft, spongy or other unstable soil is encountered, all such material shall be removed and replaced with suitable earth compacted to provide adequate support.
  - Laying pipe - The pipe shall be placed with inside circumferential laps pointing downstream and with the longitudinal laps at the sides.
  - Backfilling shall conform to structural backfill as shown above.
  - Other details (anti-seep collars, valves, etc.) shall be as shown on the drawings.
- B. REINFORCED CONCRETE PIPE**
- Materials - Reinforced concrete pipe shall have a rubber gasket joint and shall equal or exceed ASTM Specification C-361. Approved equivalents are AWWA Specification C-300, 301, and 302.
  - Bedding - All reinforced concrete pipe conduits shall be laid in a concrete bedding for their entire length. This bedding shall consist of high slump concrete placed under the pipe and up the sides of the pipe at least 10% of its diameter with a minimum thickness of 3". W.S.C. low cradle bedding is an approved equivalent.
  - Laying pipe - Bell and spigot pipe shall be placed with the bell end upstream. Joints shall be made in accordance with recommendations of the manufacturer of the material. After the joints are sealed on 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-seep collars, valves, etc.) shall be as shown on the drawings.

**V. CONCRETE**  
 Concrete shall meet minimum requirements set forth in Maryland State Highway Administration Specifications for Materials, Highways, Bridges, and Incidental Structures, Article 20.07 (Portland Cement Concrete Mixtures), Class A-1, or P-1.

**VI. STABILIZATION**  
 All borrow areas shall be graded to provide proper drainage and left in a slightly condition. All exposed surfaces of the embankment, spillway and borrow areas shall be stabilized by seeding and applying straw mulch in accordance with Standards and Specifications for Soil Erosion and Sediment Control in Urbanizing Areas immediately after finish grading.

core trench shall be the most impervious material available and shall be compacted with equipment or rollers to assure maximum density and minimum permeability.

**III. 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 needs 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 the contractor drive equipment 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.

**IV. PIPE CONDUITS**

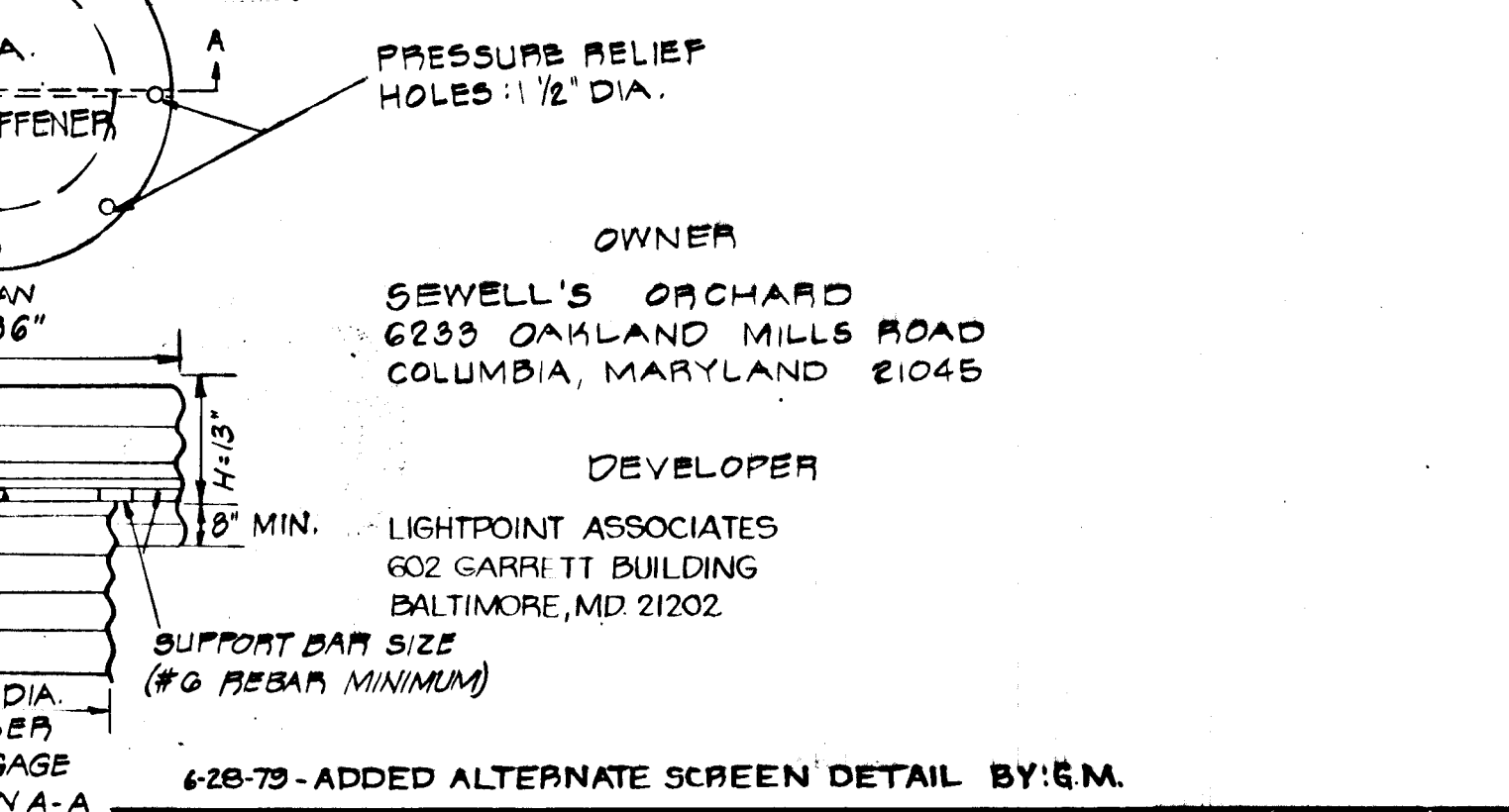
**A. CORRUGATED METAL PIPE**

- Materials - (Steel Pipe) - This pipe and its appurtenances shall be galvanized and fully bituminous coated and shall conform to the requirements of AASHTO Specification M-190 Type A with watertight coupling bands. Any bituminous coating damaged or otherwise removed shall be replaced with cold applied bituminous coating compound.
- Materials - (Aluminum Pipe) - This pipe and its appurtenances shall conform to the requirements of AASHTO Specification M-196 or M-211 with watertight coupling bands. Coupling bands, anti-seep collars, end sections, etc. must be composed of the same material as the pipe. Metals must be insulated from dissimilar materials with use of rubber or plastic insulating materials at least 24 mils in thickness. Aluminum surfaces that are to be in contact with concrete shall be painted with one coat of zinc chromate primer. Hot dip galvanized bolts may be used for connections. The pH of the surrounding soils shall be less than 9 and greater than 4.

Helically corrugated pipe in addition to the requirements above shall have either continuously welded seams or have lock seams which are caulked with a neoprene bead.

- Connections - All connections with pipes must be completely watertight. The drain pipe or barrel connection to the riser shall be welded all around. Watertight coupling bands shall be used at all joints. Anti-seep collars shall be connected to the pipe in such a manner as to be completely watertight.

- C. Acceptable Construction Criteria**
- The following items should be considered in reviewing As-Built plans to determine if it is acceptable:
- The pipe and riser diameter, materials, and elevations must be correct.
  - The number, size and location of the anti-seep collars must be correct.
  - The emergency spillway exit slope may be 1-2% steeper, but no flatter than the design, and no narrower than the design.
  - The top of fill elevation must be no less than the design elevation plus the allowance for settlement.
  - The top width and side slopes must be equal to or flatter than the design.
  - There must be the proper relation between the elevations of the principal spillway crest, the emergency spillway crest, and the top of dam. All of these elevations should be greater than or equal to the design elevations.
  - The structure must have an acceptable outlet as provided in the plans.
- Any major change or deviation from the original plan must be redesigned and revised plans submitted to the approving soil conservation district prior to the performance of the work.

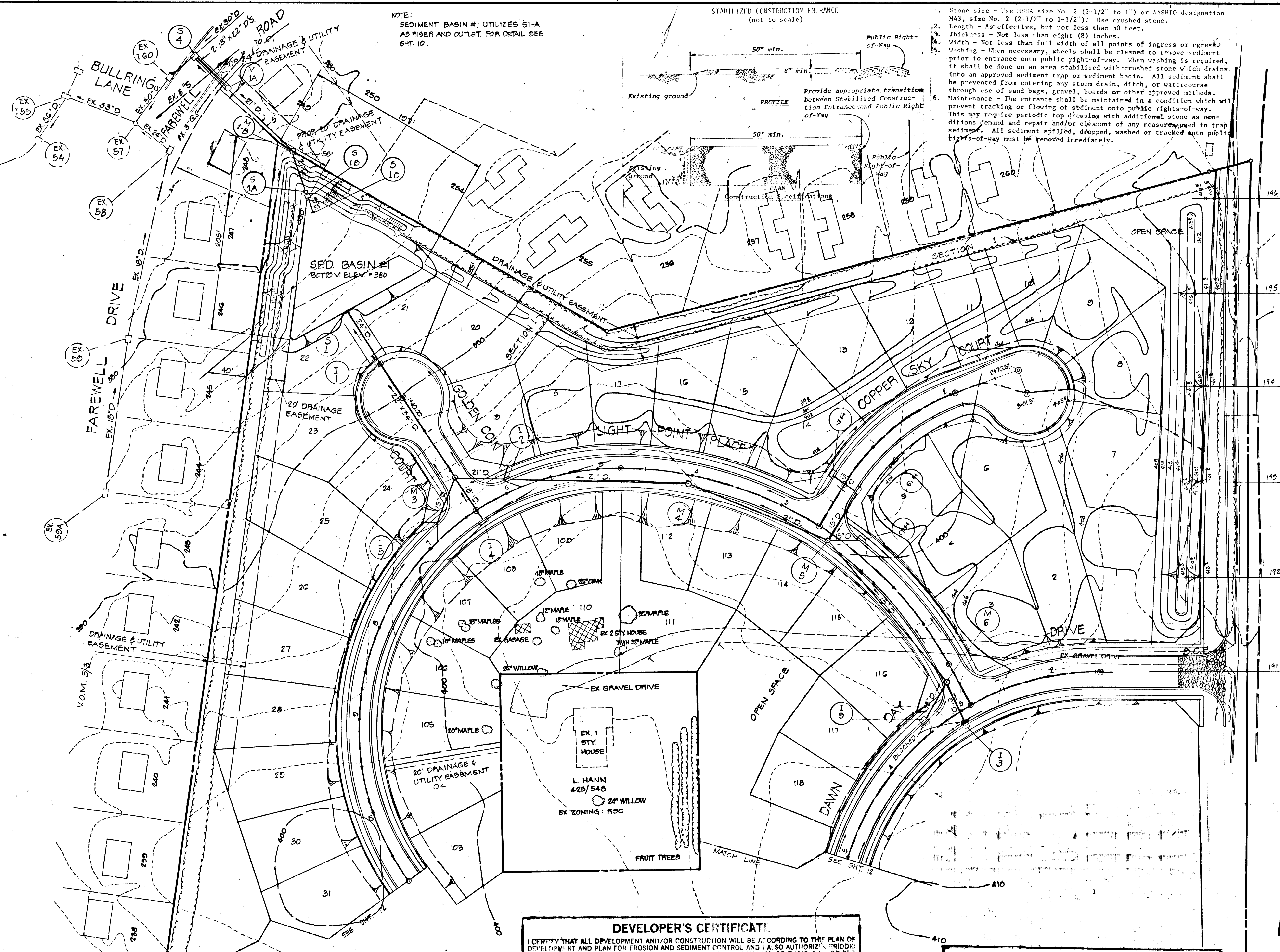


**APPROVED DEPARTMENT OF PUBLIC WORKS**  
*W. O. Albert*  
 CHIEF, BUREAU OF ENGINEERING  
 DATE 4-27-79

**APPROVED OFFICE OF PLANNING AND ZONING**  
*Asmwa Murchison*  
 CHIEF, DIVISION OF LAND DEVELOPMENT  
 DATE 4-17-79

PROJECT <b>STORM WATER MANAGEMENT DETAILS</b>			
LOCATION <b>MARBELLA II</b>			
DATE: FEB 1979		DESIGN BY: P.L.M.	
SCALE: AS SHOWN		JOB NO.: 78251	
DRAWN BY: W.H.N.		CHECKED BY: P.L.M.	
DRAWING NO.: 10 OF 14			
boender associates			
engineers surveyors planners			

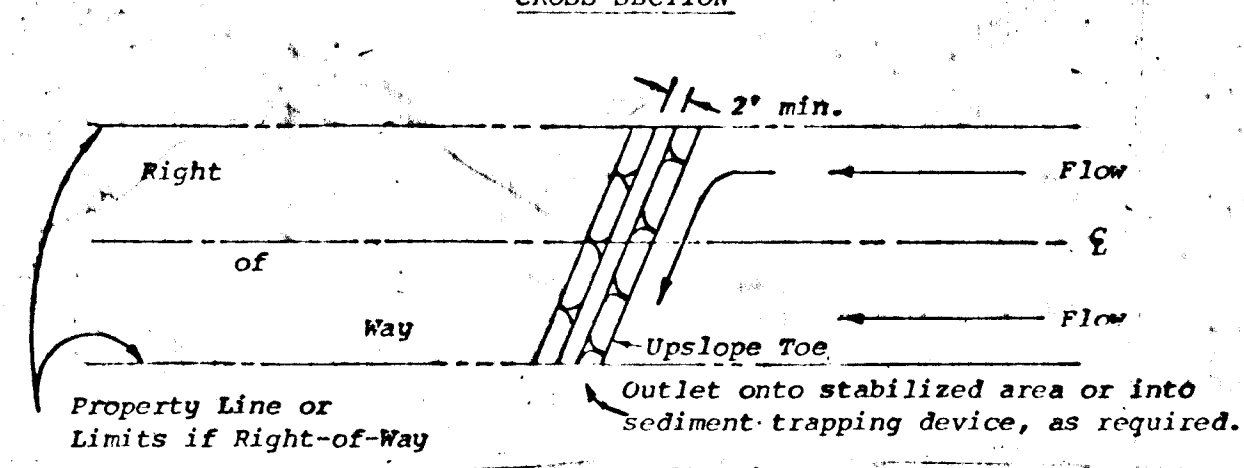
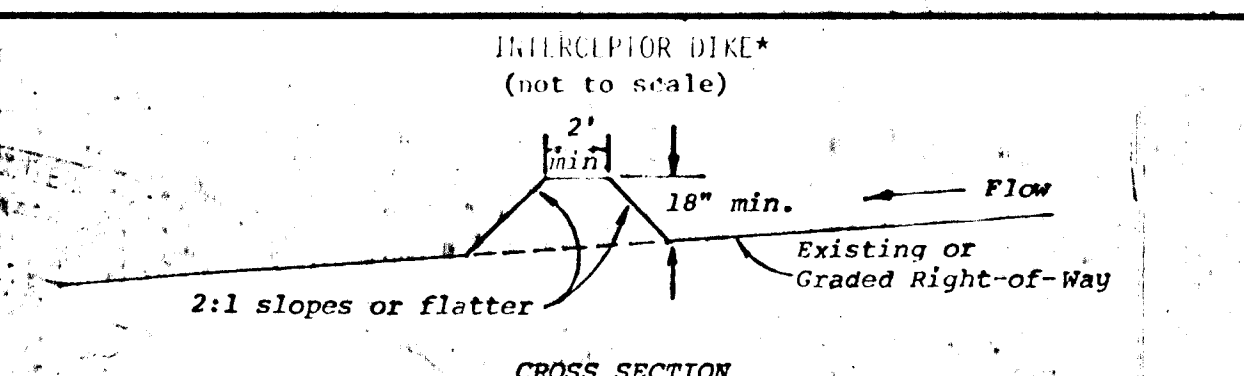




NOTE:  
SEDIMENT BASIN #1 UTILIZES 61-A  
AS RISER AND OUTLET. FOR DETAIL SEE  
SHT. 10.

STABILIZED CONSTRUCTION ENTRANCE  
(not to scale)

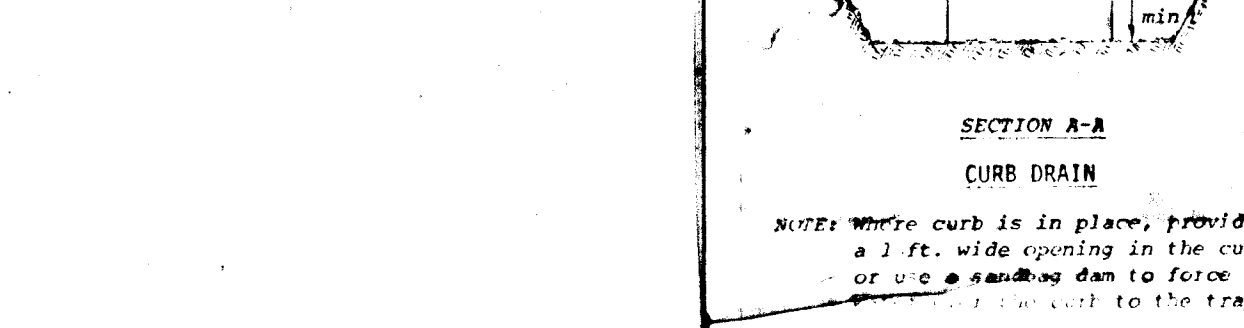
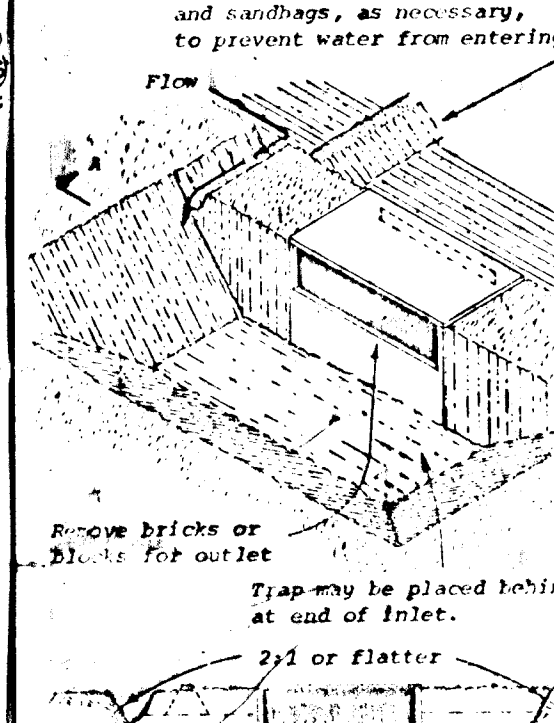
1. Stone size - Use MSHA size No. 2 (2-1/2" to 1") or AASHTO designation M43, size No. 2 (2-1/2" to 1-1/2"). Use crushed stone.
2. Length - As effective, but not less than 50 feet.
3. Thickness - Not less than eight (8) inches.
4. Width - Not less than full width of all points of ingress or egress.
5. Washing - When necessary, wheels shall be cleaned to remove sediment prior to entrance onto public right-of-way. When washing is required, it shall be done on an area stabilized with crushed stone which drains into an approved sediment trap or sediment basin. All sediment shall be prevented from entering any storm drain, ditch, or watercourse through use of sand bags, gravel, boards or other approved methods.
6. Maintenance - The entrance shall be maintained in a condition which will prevent tracking or flowing of sediment onto public rights-of-way. This may require periodic top dressing with additional stone as conditions demand and repair and/or cleanout of any measures used to trap sediment. All sediment spilled, dropped, washed or tracked onto public rights-of-way must be removed immediately.



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

CONSTRUCTION SEQUENCE

1. APPLY FOR GRADING PERMIT.
2. NOTIFY HOWARD COUNTY BUREAU OF LICENSE INSPECTIONS AND PERMITS 24 HOURS PRIOR TO GRADING OPERATIONS (202-2435).
3. INSTALL S.C.E. ID P.S. PD TRAPS AND SED. BASIN AS FOLLOWS:  
A. CONSTRUCT STORM DRAIN FROM 5-4 THRU S.C. BLOCK S.C. INSTALL S.C.E. S.C. S.C.  
B. EXCAVATE FOR GRAVEL ACCORDING TO DETAILS ON SHT. B.  
C. INSTALL SANITARY SEWER. REPAIRS BEHIND IMMEDIATELY.  
D. INSTALL FILTER AND GRAVEL ACCORDING TO DETAILS ON SHT. B.  
E. APPLY FRESH EARTH CLANKET AND PIPERAP CHANNEL.  
F. EXCAVATE SEDIMENT BASIN #1.  
G. STABILIZE ALL SLOPES ACCORDING TO SED. CONTROL NOTES SHT. 12.  
H. CONSTRUCT DRAINS. BLOCK UPSTREAM END EACH NIGHT. BLOCK INLETS 1-9, 1-10, 1-11, 1-12 AND 1-13.  
I. PERFORM FINISH GRADING.  
J. STABILIZE ROADS WITH BASE COURSE.  
K. FINE GRADE AND SEED.  
L. OPEN INLETS AS DRAINAGE AREAS ARE STABILIZED WITH APPROVAL OF HOWARD CO. SEDIMENT CONTROL INSPECTORS.  
M. CLEAN OUT SED. BASIN #1 AND GRADE LOTS TO FINAL GRADES.  
N. APPLY PERMANENT STABILIZATION MEASURES.  
O. INSTALL STRUCTURE S.C. S.C.  
P. REMOVE TEMPORARY SEDIMENT CONTROL MEASURES WITH APPROVAL OF HOWARD CO. BUREAU OF LICENSE INSPECTIONS AND PERMITS.



- CONSTRUCTION SPECIFICATIONS
1. Sediment shall be removed and trap restricted 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.
  2. The structure shall be inspected after each rain and repairs made as needed.
  3. Construction operations shall be carried out in such a manner that erosion and water pollution shall be minimized.
  4. The sediment trap shall be removed and area stabilized when the remaining drainage area has been properly stabilized.
  5. All cut and fill slopes shall be 2:1 or flatter.

U. S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE College Park, Md.	STORM INLET SEDIMENT TRAP	Standard Drawing S.C. S.C.
---	------------------------------	----------------------------------

APPROVED DEPARTMENT OF PUBLIC WORKS  
*W. O. Lambert*  
CHIEF, BUREAU OF ENGINEERING  
DATE: 4-27-79

APPROVED OFFICE OF PLANNING AND ZONING  
*James M. ...*  
CHIEF, DIVISION OF LAND DEVELOPMENT  
DATE: 4-17-79

DEVELOPER'S CERTIFICATE  
I CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE ACCORDING TO THE PLAN OF DEVELOPMENT AND PLAN FOR EROSION AND SEDIMENT CONTROL AND I ALSO AUTHORIZE BRIDGING OR-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OF THE R.A.U. ORIFIED AGENTS AS ARE DEEMED NECESSARY. DEVIATION FROM THIS PLAN WILL NOT BE MADE UNLESS AUTHORIZED BY THE HOWARD SOIL CONSERVATION DISTRICT.

*R. ...*  
L. EARL ARMIGER  
DATE: 2-5-79

ENGINEER'S CERTIFICATE  
I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND FEASIBLE PLAN BASED ON PERSONAL KNOWLEDGE OF THE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

*Rodolph May Jr.*  
RODOLPH L. MAY JR.  
DATE: 2-5-79

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

*Wanda ...*  
U.S. SOIL CONSERVATION SERVICE  
DATE: 4-17-79

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

*Robert ...*  
DATE: 4-17-79



*Rodolph May Jr.*

OWNER  
SEWELL'S ORCHARD  
6233 OAKLAND MILLS ROAD  
COLUMBIA, MARYLAND 21045

DEVELOPER  
LIGHTPOINT ASSOCIATES  
602 GARRETT BUILDING  
BALTIMORE, MD 21202

TITLE	SEDIMENT CONTROL PLAN		
PROJECT	MARBELLA II		
LOCATION	GTH ELECTION DISTRICT	HOWARD COUNTY, MD	
DATE:	FEB. 1979	DESIGN BY:	W.H.N./P.L.M.
SCALE:	1" = 50'	JOB NO.:	78251
		DRAWING NO.:	11 OF 14
		CHECKED BY:	R.L.M.

boender associates  
SUITE 102-107 TOWN & COUNTRY PROFESSIONAL BUILDING  
ELLIOTT CITY, MARYLAND 21043  
BALTIMORE 301-465-7777 SALISBURY 301-798-1208

engineers  
surveyors  
planners

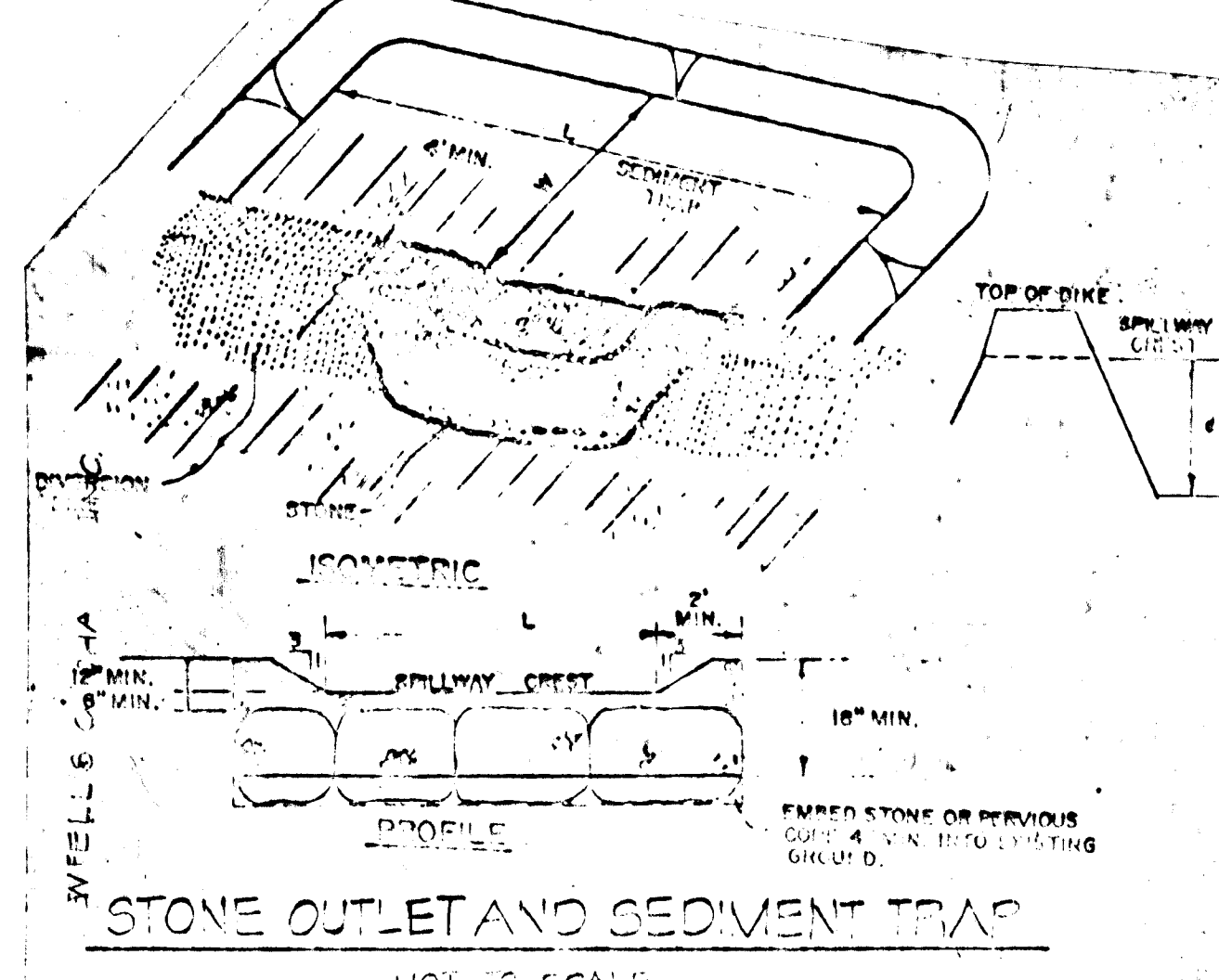


**SITE ANALYSIS**

AREA SITE : 20.5 AC.  
 AREA PAVED : 5.5 AC.  
 AREA REVEGETATED : 3.6 AC.  
 AREA DISTURBED : 9.1 AC.  
 AREA UNDISTURBED : 20.4 AC.

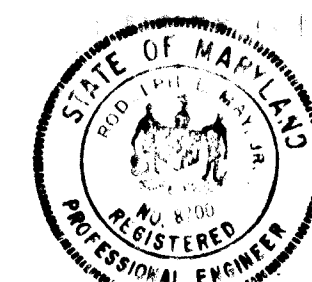
**SEDIMENT CONTROL NOTES**

ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH "STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL IN DEVELOPING AREAS" PREPARED BY THE U.S.D.A. SOIL CONSERVATION SERVICE. APPLY FOR GRADING PERMIT.  
 NOTIFY THE BUREAU OF LICENSE INSPECTIONS AND PERMITS 24 HRS. PRIOR TO GRADING OPERATIONS.  
 CONSTRUCTION SHALL ADHERE TO THE CONSTRUCTION SEQUENCE.  
 CUT AND FILL SLOPES SHALL BE 3:1 MAXIMUM.  
 ELEVATIONS MARKED THUS (X) SHALL BE FINISHED GRADE.  
 ANY EXCESS MATERIAL SHALL BE STOCKPILED IN A CLEARED LOCATION ON SITE WHICH IS PROTECTED BY SEDIMENT CONTROL STRUCTURE(S). MAXIMUM FILL SLOPE SHALL BE 3:1. STOCKPILED MATERIAL SHALL BE STABILIZED ACCORDING TO SEEDING SPECIFICATIONS BELOW.  
 SEDIMENT CONTROL STRUCTURES SHALL BE REMOVED ONLY WITH PERMISSION OF THE BUREAU OF LICENSE, INSPECTIONS AND PERMITS.  
**STABILIZATION MEASURES:**  
 TEMPORARY STABILIZATION:  
 APPLY: 2000 LBS./AC. OR 46 LBS. OF PULVERIZED DOLOMIC LIMESTONE, 500 LBS./AC. OR 11.5 LBS./1000 SQ. FT. OF 10-10-10 FERTILIZER. PLANT WITH RYEGRASS AT 40 LBS./AC. MULCH ALL DISTURBED AREAS IMMEDIATELY AFTER GRADING.  
 PERMANENT STABILIZATION:  
 APPLY: 2000 LBS./AC. OF PULVERIZED DOLOMIC LIMESTONE, 500 LBS./AC. OF 10-10-10 FERTILIZER.  
 SEED: 85 LBS./AC. OF KENTUCKY 31 TALL FESCUE, 40 LBS./AC. OF KENTUCKY BLUE GRASS, 25 LBS./AC. OF ANNUAL RYEGRASS.  
 NOTE: SEEDING MAY BE DONE BETWEEN MARCH 1 - MAY 1, OR AUG. 1 - OCT. 1 ONLY. MULCH ALL DISTURBED AREAS IMMEDIATELY AFTER GRADING.  
 MULCH: 2 TONS/AC. OF UNWEATHERED WHEATSTRAW. TIE MULCH DOWN WITH 480 GAL./AC. OF LIQUID ASPHALT.  
 ON ALL SLOPES GREATER THAN 3:1, SUBSTITUTE THE FOLLOWING MIX FOR THE ABOVE:  
 APPLY 115 LBS./ACRE INNOCULATED CROWN VETCH  
 40 LBS./ACRE KENTUCKY 31 TALL FESCUE.



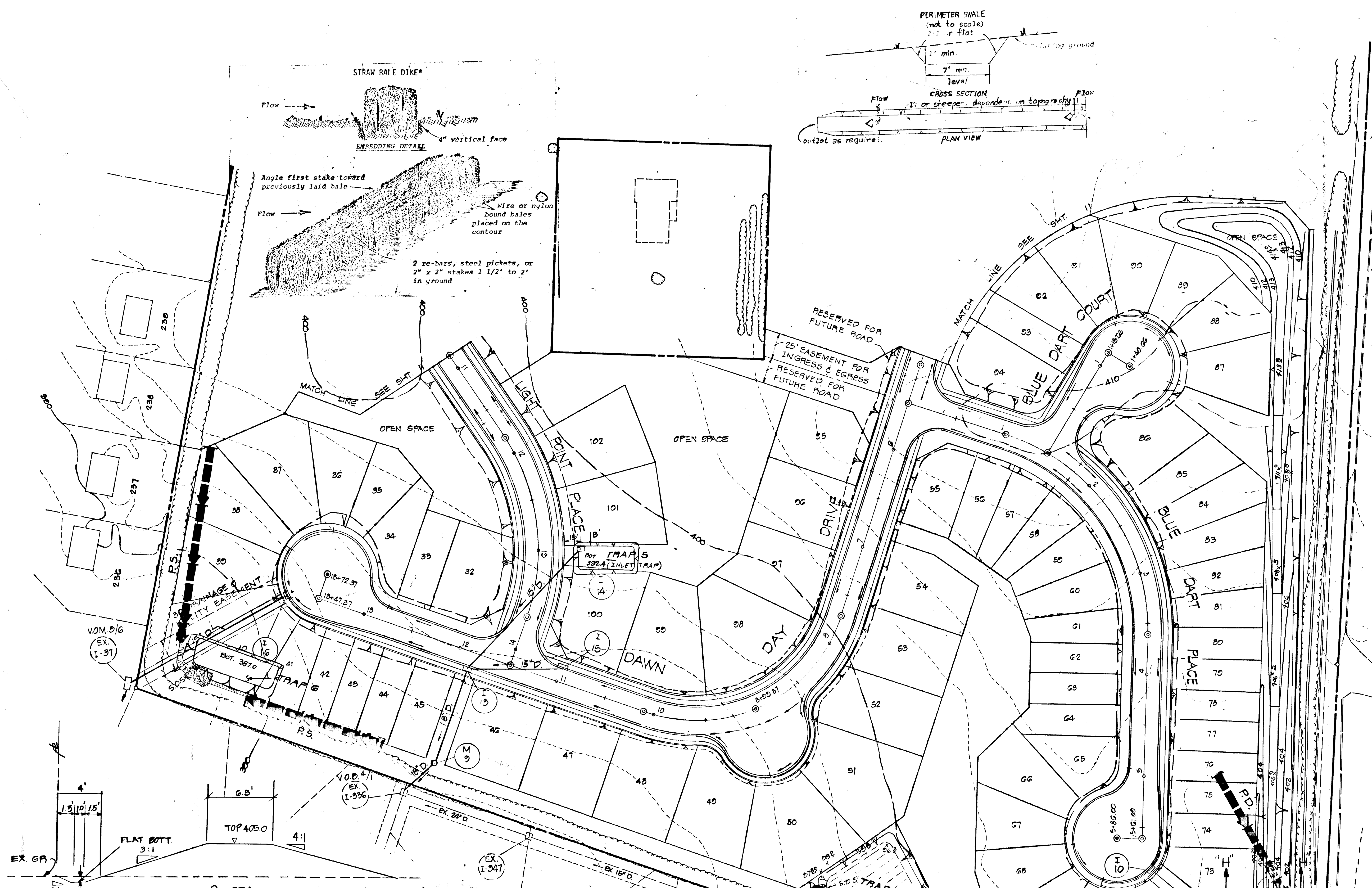
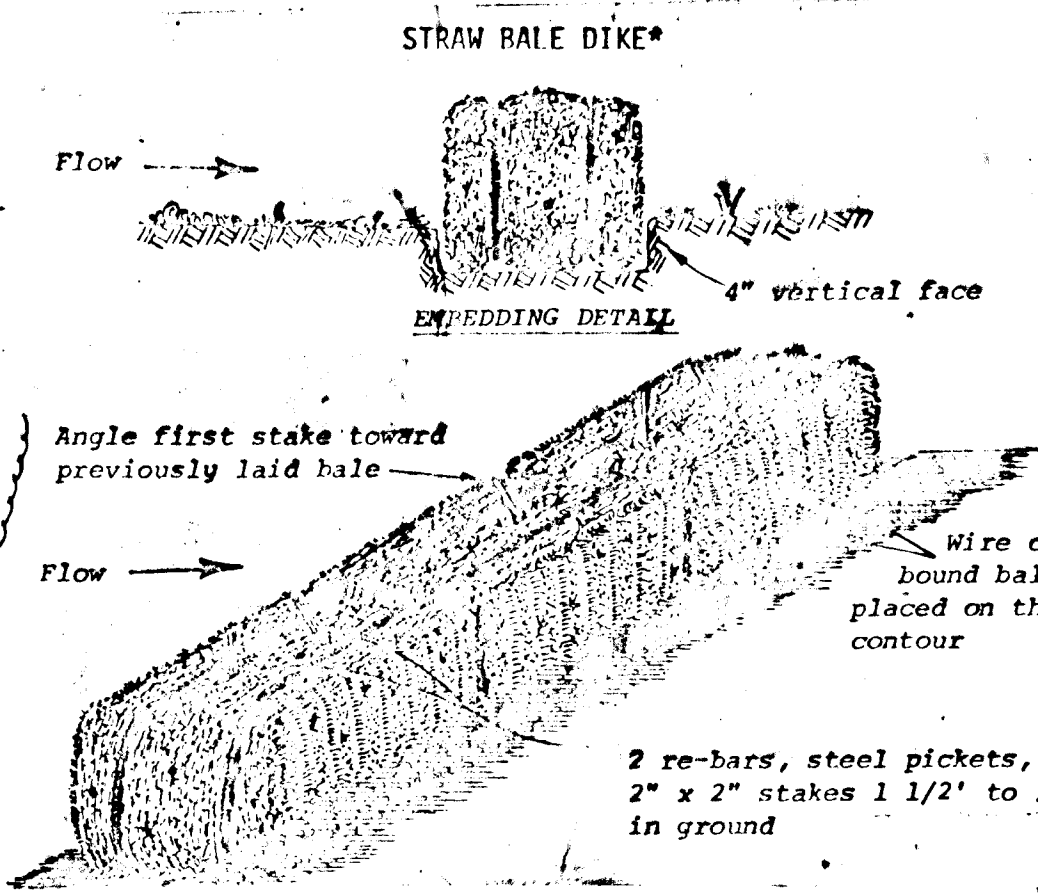
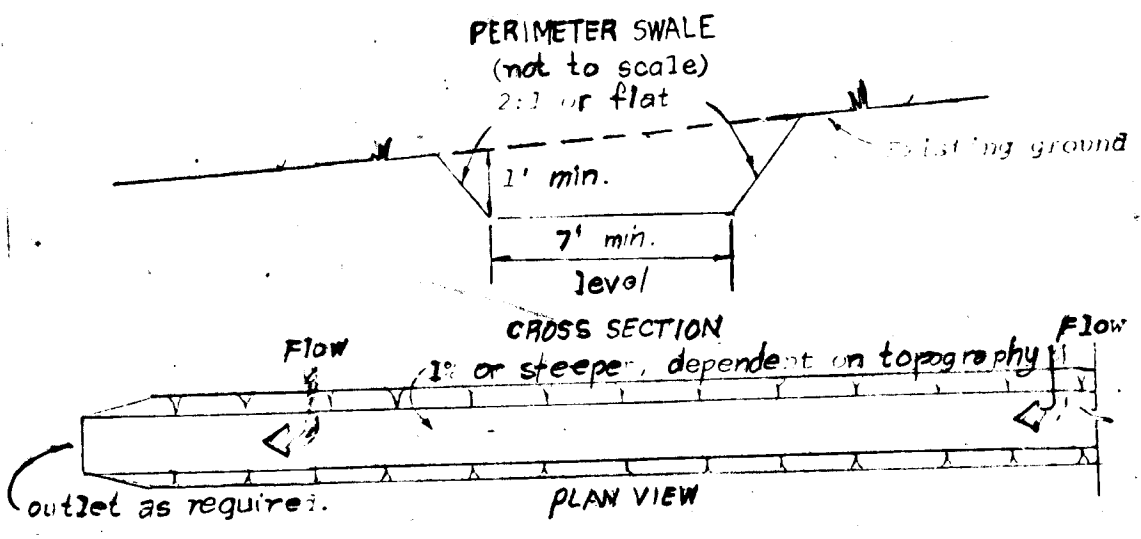
OWNER  
 SEWELL'S ORCHARD  
 6235 OAKLAND MILLS ROAD  
 COLUMBIA MARYLAND 21045

DEVELOPER  
 LIGHTPOINT ASSOCIATES  
 602 GARRETT BUILDING  
 BALTIMORE, MD 21202



Rodolph May Jr. 2-5-79

TITLE <b>SEDIMENT CONTROL PLAN</b>			
PROJECT <b>MARBELLA II</b>			
LOCATION GTH ELECTION DISTRICT	HOWARD COUNTY, MD.		
DATE: FEB. 1979	DESIGN BY: R. MAY/W.H.N.	DRAWN BY: J.J.B./W.N.	CHECKED BY: R.L.M.
SCALE: 1" = 50'	JOB NO.: 78251	DRAWING NO.: 12 OF 14	
boender associates SUITE 102-107 TOWN & COUNTRY PROFESSIONAL BUILDING ELLCOTT CITY, MARYLAND 21043 BALTIMORE 301-465-7777		engineers surveyors planners	



DEPTH: 0.5' 31'  
 A = 1.25 SQ. FT.  
 WP = 4.16 FT.  
 R = 30 1/2" 45'  
 Slo = 1.6%  
 S/L = .15  
 n = .05

Q<sub>10</sub> = CIA  
 Q<sub>0</sub> = (54)(5.6)(.57)  
 Q<sub>0</sub> = 1.72 CFS

SECTION "H-H"  
 SCALE: HOR: 1" = 5'  
 VER: 1" = 5'

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

*Wanda Bondetta* 4-17-79  
 U.S. SOIL CONSERVATION SERVICE DATE

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

*Robert W. Ziehm* 4-17-79  
 SOIL CONSERVATION DISTRICT DATE

**DEVELOPER'S CERTIFICATE**

I CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE ACCORDING TO THIS PLAN OF DEVELOPMENT AND PLAN FOR EROSION AND SEDIMENT CONTROL AND I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OF THEIR AUTHORIZED AGENTS AS ARE DEEMED NECESSARY. DEVIATION FROM THIS PLAN WILL NOT BE MADE UNLESS AUTHORIZED BY THE HOWARD SOIL CONSERVATION DISTRICT.

*L. Earl Armiger* 2-2-79  
 DEVELOPER L. EARL ARMIGER DATE

APPROVED DEPARTMENT OF PUBLIC WORKS

*W.O. Follett* 4-24-79  
 CHIEF, BUREAU OF ENGINEERING DATE

APPROVED OFFICE OF PLANNING AND ZONING

*William M. ...* 4-17-79  
 CHIEF, DIVISION OF LAND DEVELOPMENT DATE

SEDIMENT TRAP SCHEDULE								
TRAP NO.	D.A. AC.	STORAGE REQ'D.	TRAP BOTTOM	STORAGE PROVIDED	BOTT. ELEV.	CLEANOUT ELEV.	OUTLET ELEV.	50'S LENGTH
3	2.1	3,780 CF.	16' x 21' 1/2' DEEP	3800 CF.	400.0	399.0	402.0	13'
4	2.0	3,600 CF.	30' x 26' 1/2' DEEP	3864 CF.	396.1	396.7	397.3	12'
5	1.5	2,700 CF.	51' x 21' 2' DEEP	2,700 CF.	392.4	398.4	394.4	-
6	4.5	8,100 CF.	26' x 79' 1/2' DEEP	8,160 CF.	387.0	388.5	390.0	27'

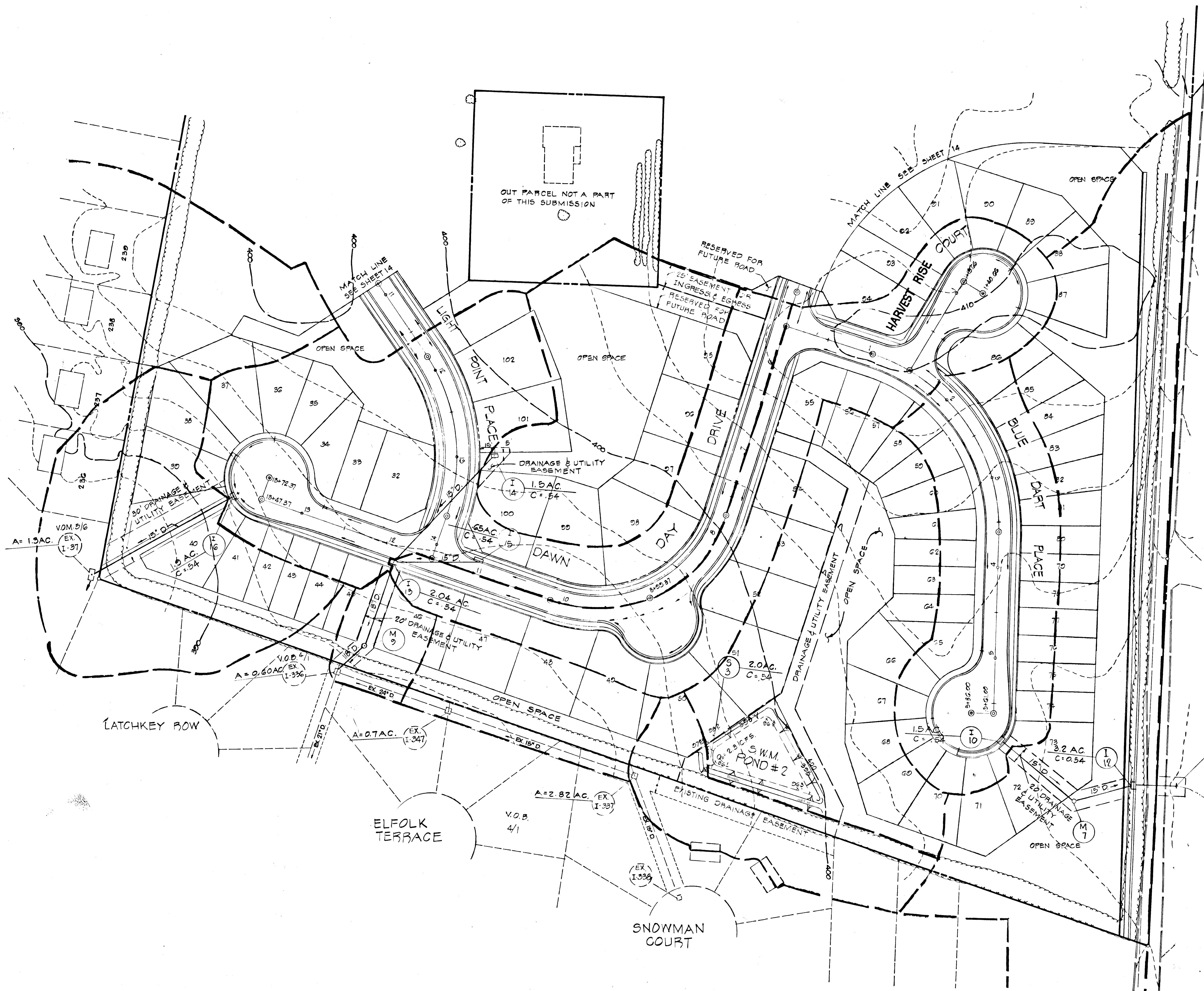
**ENGINEER'S CERTIFICATE**

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

*Rodolph May Jr.* 2-5-79  
 ENGINEER RODOLPH L. MAY JR. DATE

6-28-79-REV. TRAPS 3,5,6 BY G.M.



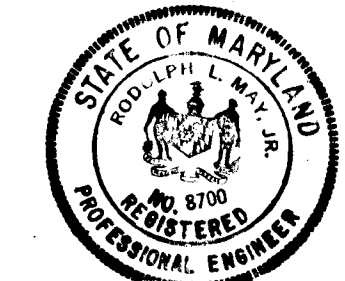


APPROVED DEPARTMENT OF PUBLIC WORKS  
*W. J. Belmont* 4-24-79  
 CHIEF, BUREAU OF ENGINEERING DATE

APPROVED OFFICE OF PLANNING AND ZONING  
*Shall M. ...* 4-17-79  
 CHIEF, DIVISION OF LAND DEVELOPMENT DATE

OWNER  
 SEWELL'S ORCHARD  
 6233 OAKLAND MILLS ROAD  
 COLUMBIA MARYLAND 21045

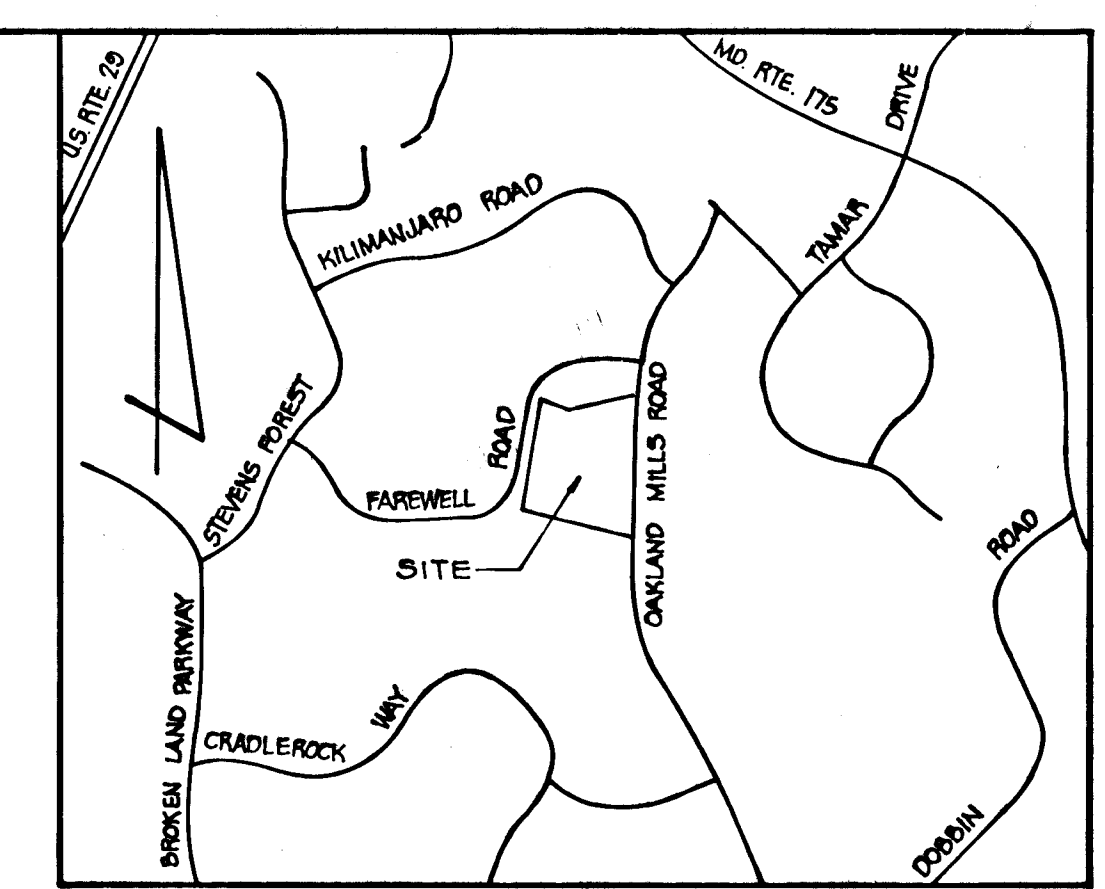
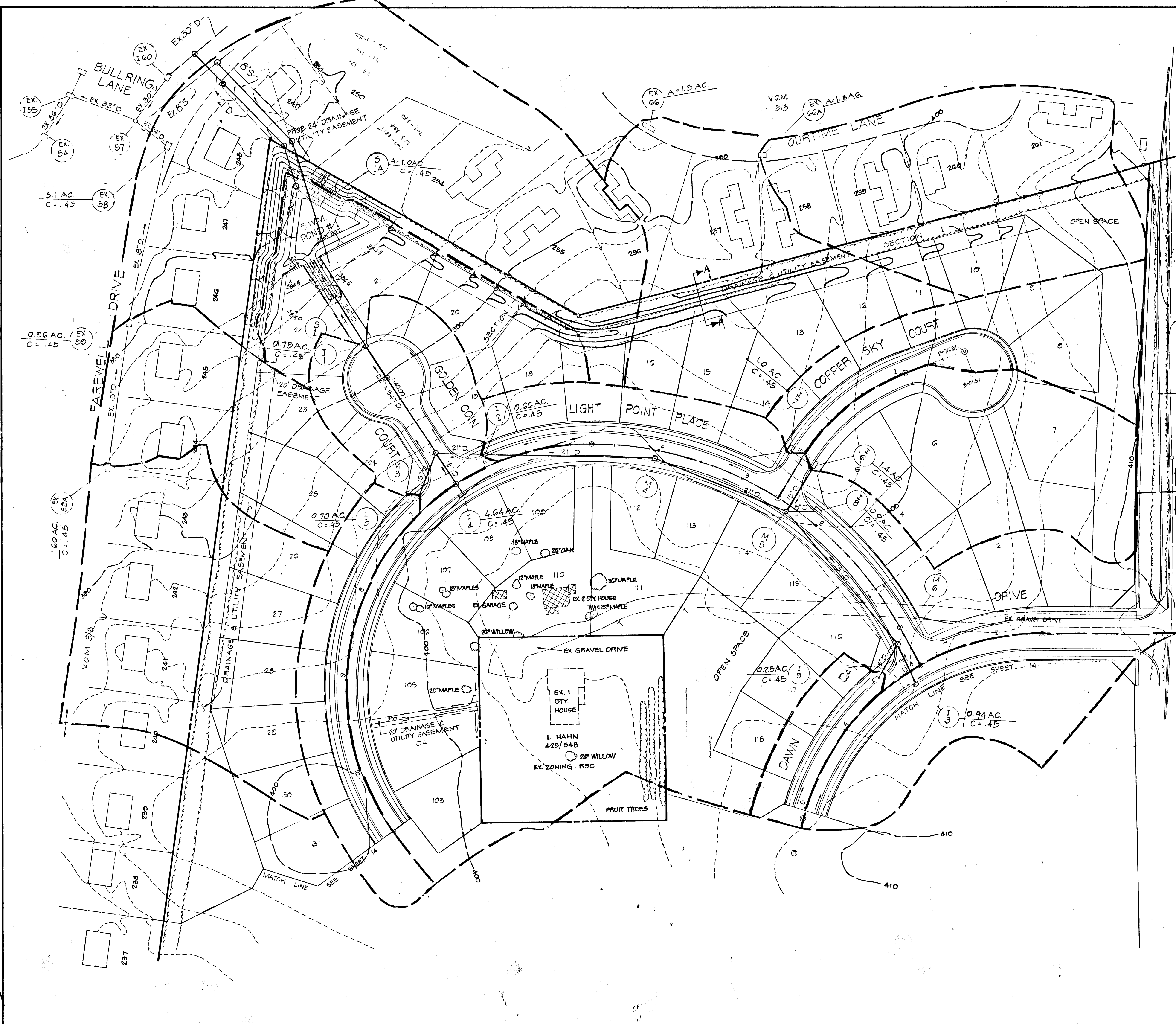
DEVELOPER  
 LIGHTPOINT ASSOCIATES  
 602 GARRETT BUILDING  
 BALTIMORE, MD 21202



*Rodolph May Jr.* 2-5-79

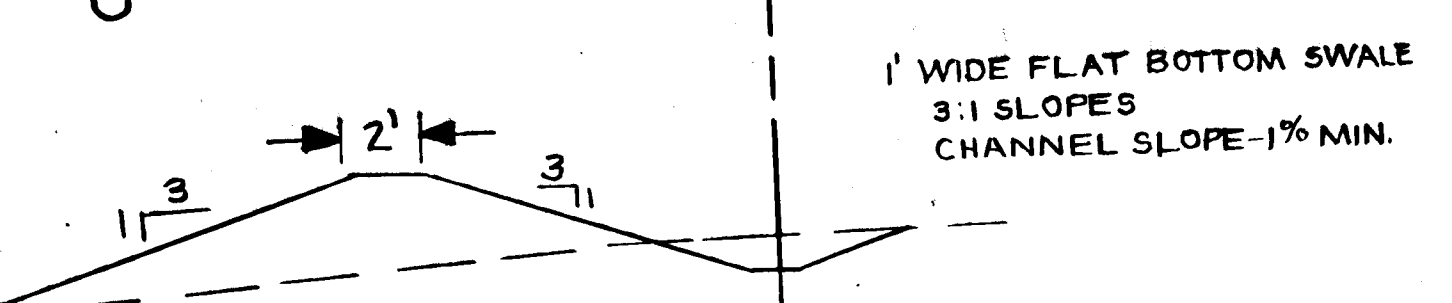
TITLE DRAINAGE AREA MAP			
PROJECT MARBELLA II			
LOCATION GTH ELECTION DISTRICT		HOWARD COUNTY, MD.	
DATE DEC, 1978	DESIGN BY:	DRAWN BY: J.J.B.	CHECKED BY: R.L.M.
SCALE: 1" = 50'	JOB NO. 78251	DRAWING NO. 13 OF 14	
boender associates SUITE 102-107 TOWN & COUNTRY PROFESSIONAL BUILDING ELLCOTT CITY, MARYLAND 21043 BALTIMORE 301-466-7777		engineers surveyors planners	





VICINITY MAP  
SCALE: 1"=2000'

OAKLAND MILLS ROAD



SECTION "A-A"  
SCALE: 1"=5'

APPROVED DEPARTMENT OF PUBLIC WORKS  
*W.D. Gilbert* 4-24-79  
 CHIEF, BUREAU OF ENGINEERING DATE  
 APPROVED OFFICE OF PLANNING AND ZONING  
*Richard W. ...* 4-17-79  
 CHIEF, DIVISION OF LAND DEVELOPMENT DATE

OWNER  
 SEWELL'S ORCHARD  
 6233 OAKLAND MILLS ROAD  
 COLUMA MARYLAND 21045

DEVELOPER  
 LIGHTPOINT ASSOCIATES  
 602 GARRETT BUILDING  
 BALTIMORE, MD 21202



Rodolph May Jr.  
2-5-79

6-28-79 REVISED GRADING BY: G.M.

PROJECT <b>DRAINAGE AREA MAP MARBELLA II</b>			
LOCATION GTH ELECTION DISTRICT		HOWARD COUNTY, MD	
DATE: DEC, 1978	DESIGN BY:	DRAWN BY: J.J.B.	CHECKED BY: R.L.M.
SCALE: 1"=50'	JOB NO.: 78251	DRAWING NO.: 14 OF 14	
boender associates SUITE 102-107 TOWN & COUNTRY PROFESSIONAL BUILDING ELLCOTT CITY, MARYLAND 21043 BALTIMORE 301-468-7777		engineers surveyors planners	