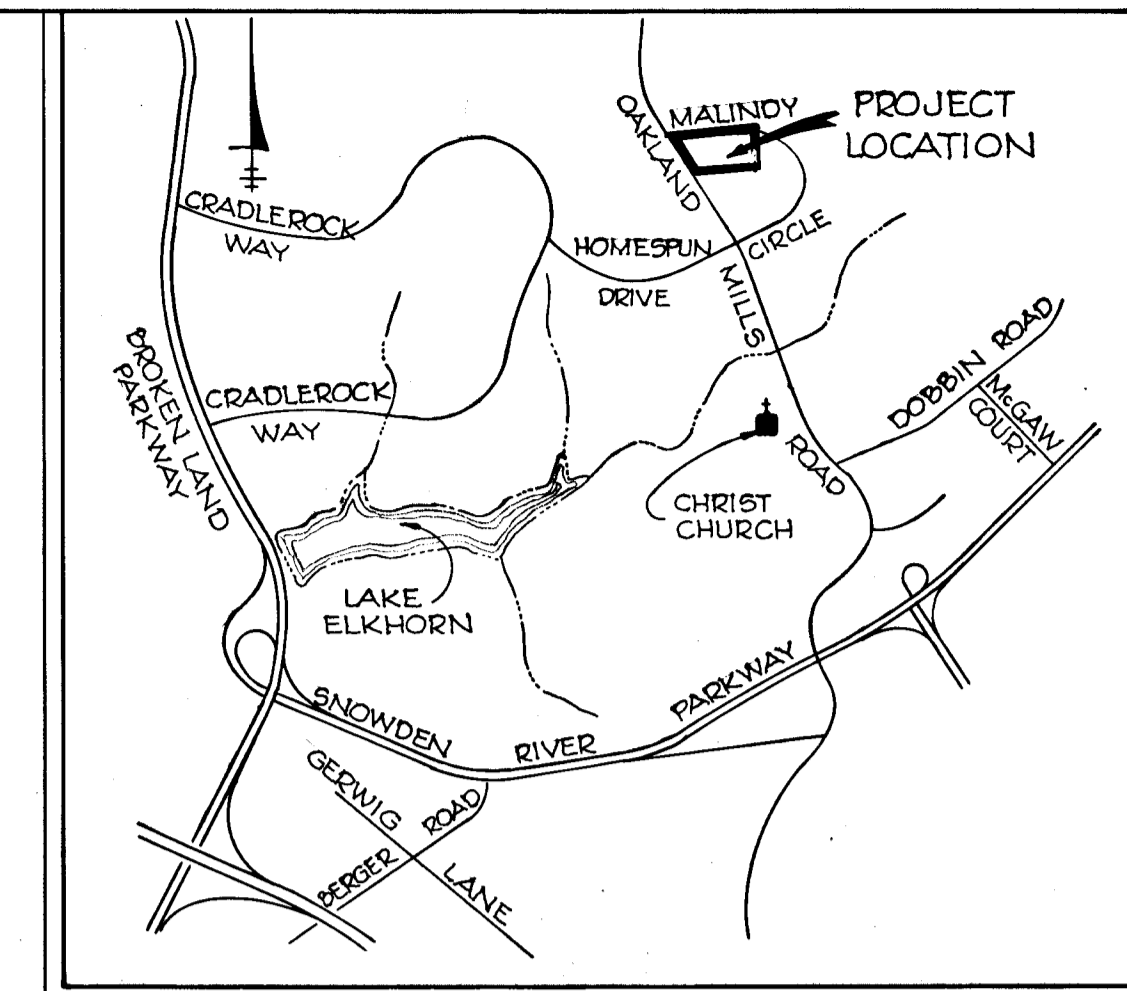


SHEET INDEX	
NO.	DESCRIPTION
1	TITLE SHEET
2	TYPICAL SECTIONS AND DETAILS
3	PLAN AND PROFILE - SPRING PLOW AND SEAPEARL LA.
4	PLAN AND PROFILE - OAKLAND MILLS ROAD WIDENING
5	DRAINAGE AREA MAP AND STORM DRAIN PROFILES
6	SEDIMENT CONTROL PLAN AND DETAILS

COLUMBIA

HOWARD COUNTY, MARYLAND
2ND ELECTION DISTRICT

VILLAGE OF OWEN BROWN
SECTION 4, AREA 2

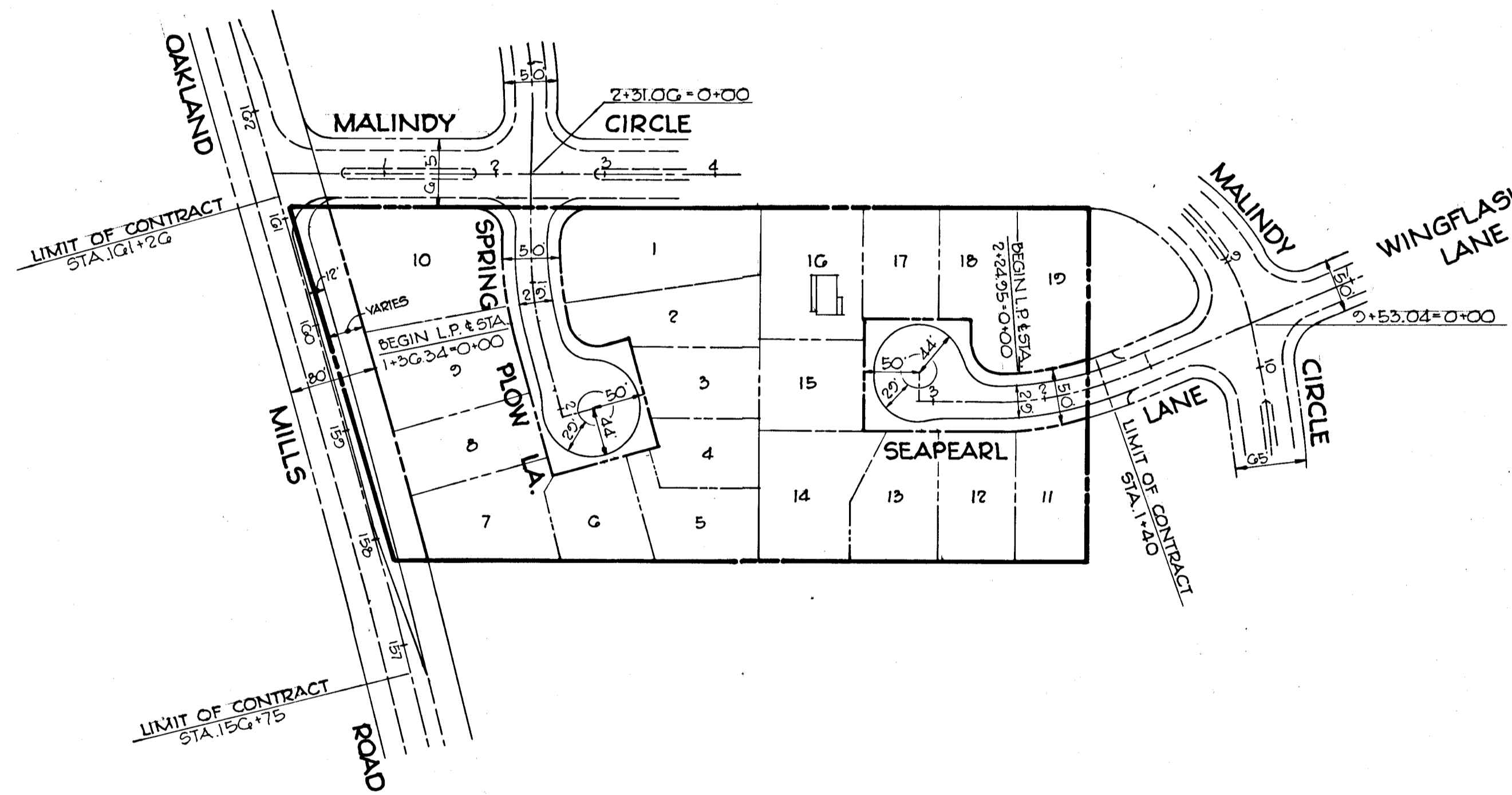


VICINITY MAP
SCALE: 1"=2000'

GENERAL NOTES

- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE HOWARD COUNTY ROAD CONSTRUCTION CODE AND STANDARD SPECIFICATIONS.
- APPROXIMATE LOCATION OF EXISTING UTILITIES ARE SHOWN. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE EXISTING UTILITIES AND MAINTAIN UNINTERRUPTED SERVICE. ANY DAMAGE INCURRED DUE TO CONTRACTOR'S OPERATION SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR SHALL TEST PIT EXISTING UTILITIES, WHERE DIRECTED BY THE ENGINEER, A MINIMUM OF TWO WEEKS IN ADVANCE OF CONSTRUCTION OPERATIONS.
- CONTRACTOR TO NOTIFY THE FOLLOWING UTILITIES AT LEAST THREE DAYS BEFORE STARTING WORK SHOWN ON THIS/THESE DRAWINGS:

BELL TELEPHONE SYSTEM	393-3649
LONG DISTANCE CABLE DIVISION	393-3553 OR 3554
BALTIMORE GAS & ELECTRIC CO.	539-8000 EXT. 691
- ALL INLETS SHALL BE CONSTRUCTED IN ACCORDANCE WITH HOWARD COUNTY STANDARDS.
- ALL STREET CURB RETURNS SHALL HAVE 35.0' RADIUS UNLESS OTHERWISE NOTED.
- STORM DRAIN TRENCHES WITHIN ROAD RIGHT-OF-WAY SHALL BE BACKFILLED AND COMPACTED IN ACCORDANCE WITH HOWARD COUNTY ROAD CODE.
- INSTALLATION OF TRAFFIC CONTROL DEVICES, MARKING, AND SIGNING SHALL BE IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES 1971 EDITION.
- TREES ARE TO BE PROTECTED AGAINST DAMAGE TO THE MAXIMUM EXTENT REASONABLE. TREES WHICH ARE TO REMAIN IN STREETS AND OTHER RIGHTS-OF-WAY WILL BE MARKED BY THE ENGINEER PRIOR TO COMMENCING CONSTRUCTION OPERATIONS.
- PIPE SHALL NOT BE INSTALLED BY THE CONTRACTOR UNTIL THE LENGTH CALLED FOR EACH STATION HAS BEEN APPROVED BY THE ENGINEER IN THE FIELD.
- DESIGNED TRAFFIC SPEED IN ACCORDANCE WITH THE AMERICAN ASSOC. OF STATE HIGHWAY OFFICIAL STANDARDS:
OAKLAND MILLS ROAD - 45 M.P.H.; SEAPEARL AND SPRING PLOW LA. - 25 M.P.H.
- ALL ELEVATIONS SHOWN ARE BASED ON U.S.C. & G.S. MEAN SEA LEVEL DATUM 1929.



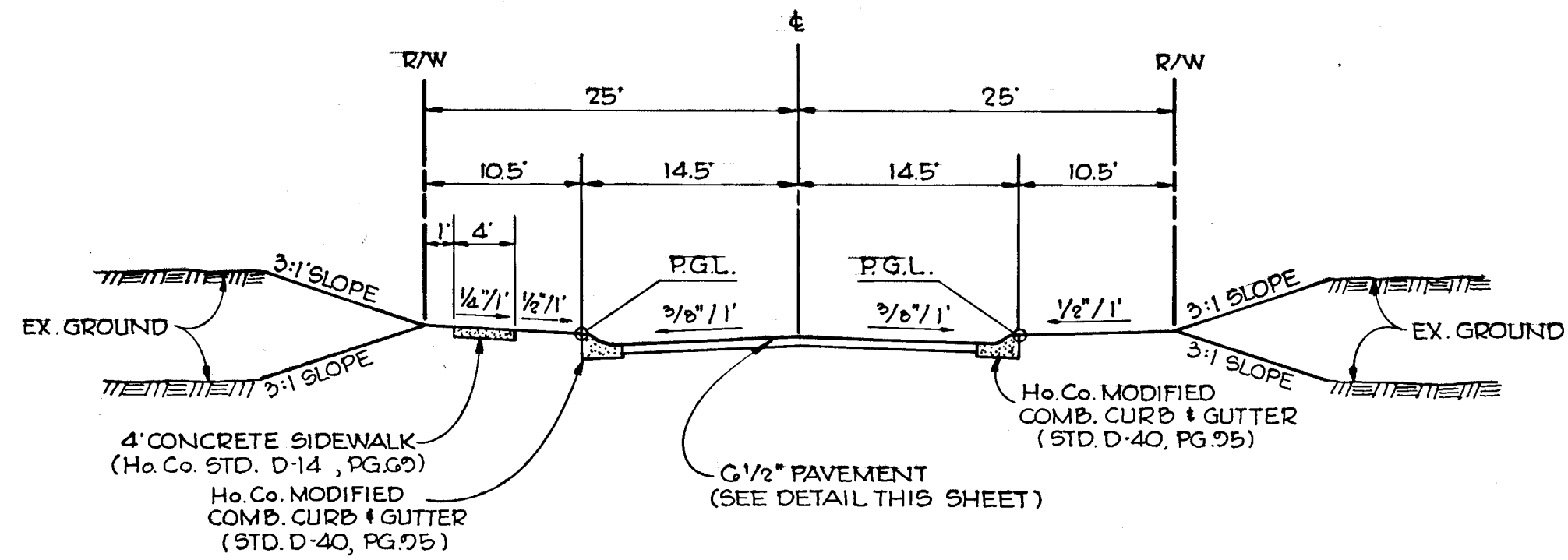
PLAN
SCALE: 1"=100'

DEPARTMENT OF PUBLIC WORKS	
<i>Grenville W. Weiland</i> CHIEF, BUREAU OF HIGHWAYS	7/6/76 DATE
OFFICE OF PLANNING AND ZONING	
<i>J.H. Clawson</i> CHIEF, DIVISION OF LAND DEVELOPMENT	6/30/76 DATE
CENTURY ENGINEERING, INCORPORATED CONSULTING ENGINEERS - PLANNERS TOWSON, MARYLAND, 21204	



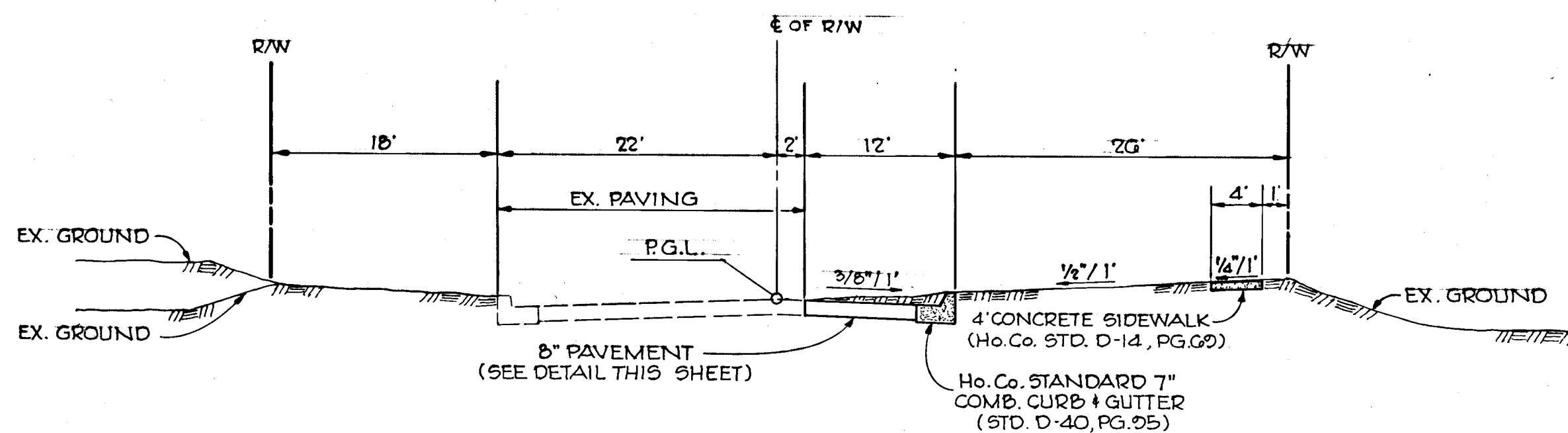
Rev. Date	Rev. No.	Description

Dwg. No.
1 OF 6



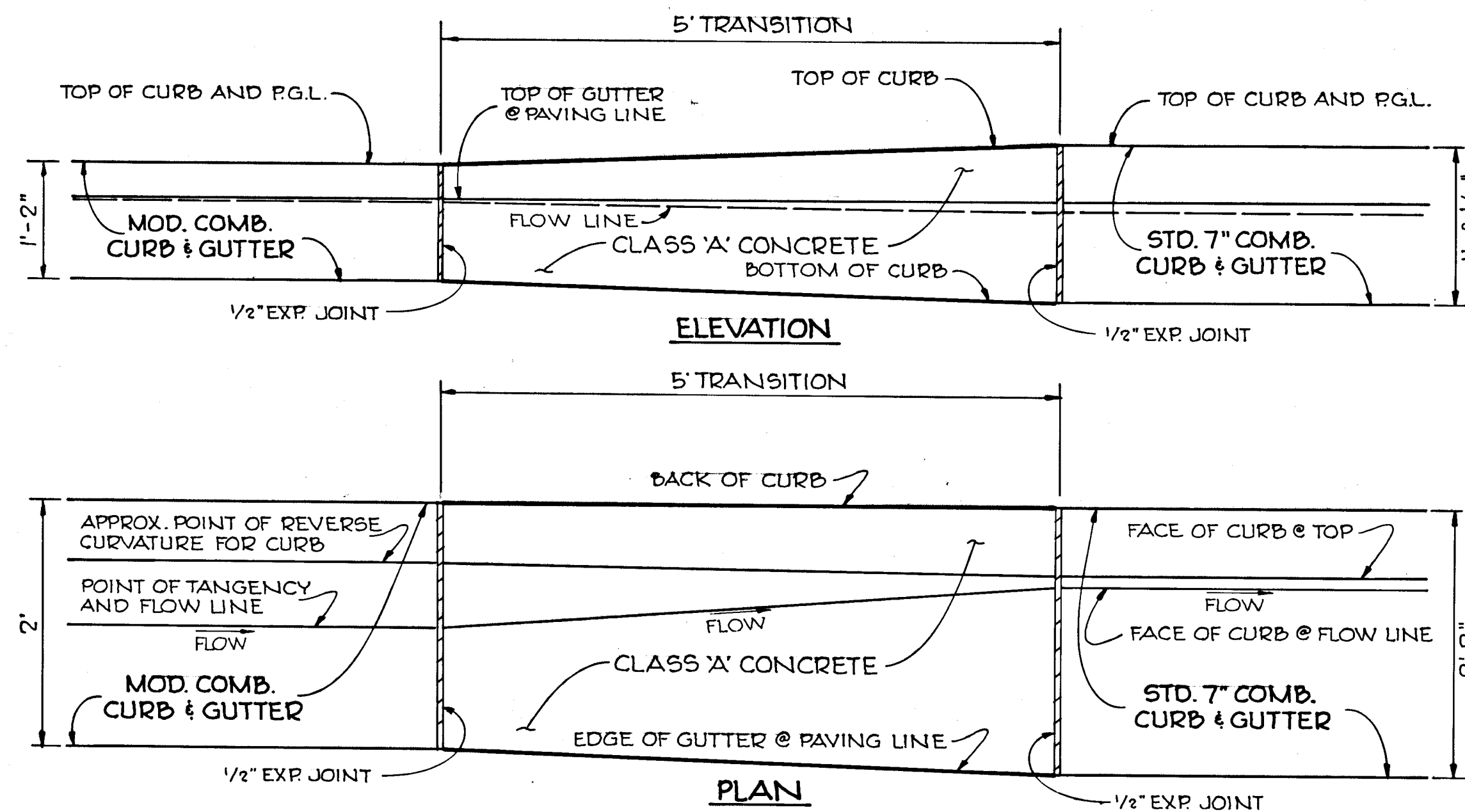
**50' R/W
TYPICAL SECTION
SEAPEARL AND SPRING PLOW LANE**

SCALE: 1" = 10'
LAND USE — SINGLE FAMILY MEDIUM DENSITY
DESIGN SPEED — 25 M.P.H.

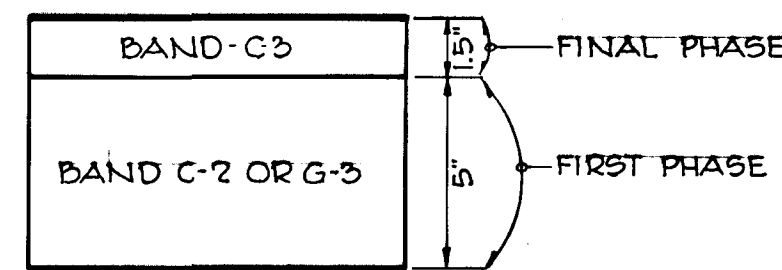


**80' R/W
TYPICAL SECTION
OAKLAND MILLS ROAD**

SCALE: 1" = 10'
LAND USE — SINGLE FAMILY MEDIUM DENSITY
DESIGN SPEED — 45 M.P.H.



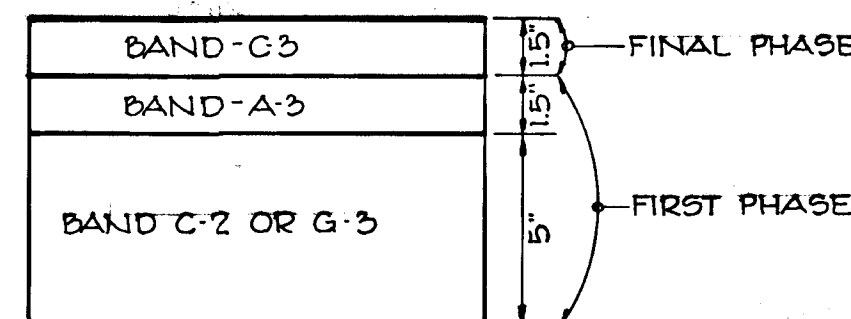
CURB TRANSITION DETAIL
SCALE: 1" = 1"



CLEARING & GRADING — ARTICLE C-1
SUBGRADE — ARTICLE C-2
BASE COURSE — ARTICLE C-31 OR C-33
SURFACE COURSE — ARTICLE C-31

G 1/2\"/>

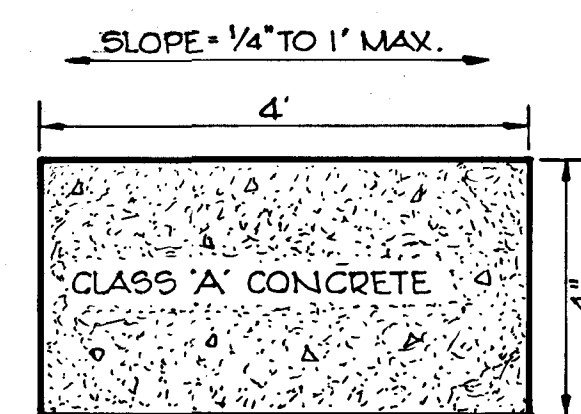
NOTE:
1. A TACK COAT IS REQUIRED IN ACCORDANCE WITH SECTION C-31-4 OF THE HOWARD COUNTY CONSTRUCTION CODE AND STANDARD SPECIFICATIONS.
2. BASE WILL BE PRIMED IN ACCORDANCE WITH SECTION C-30-3 OF THE HOWARD COUNTY ROAD CONSTRUCTION CODE AND STANDARD SPECIFICATIONS.



CLEARING & GRADING — ARTICLE C-1
SUBGRADE — ARTICLE C-2
BASE COURSE — ARTICLE C-31 OR C-33
BINDER COURSE — ARTICLE C-31
SURFACE COURSE — ARTICLE C-31

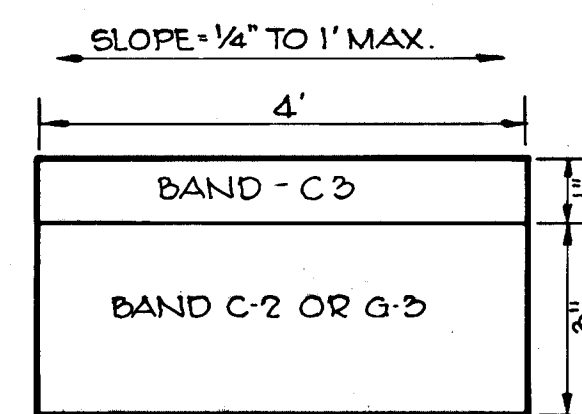
8\"/>

SCALE: 1" = 5'



THIS SIDEWALK TO BE CONSTRUCTED IN ACCORDANCE WITH ARTICLE C-35 OF THE HOWARD COUNTY ROAD CONSTRUCTION CODE AND SPECIFICATIONS

SIDEWALK PAVING
NO SCALE

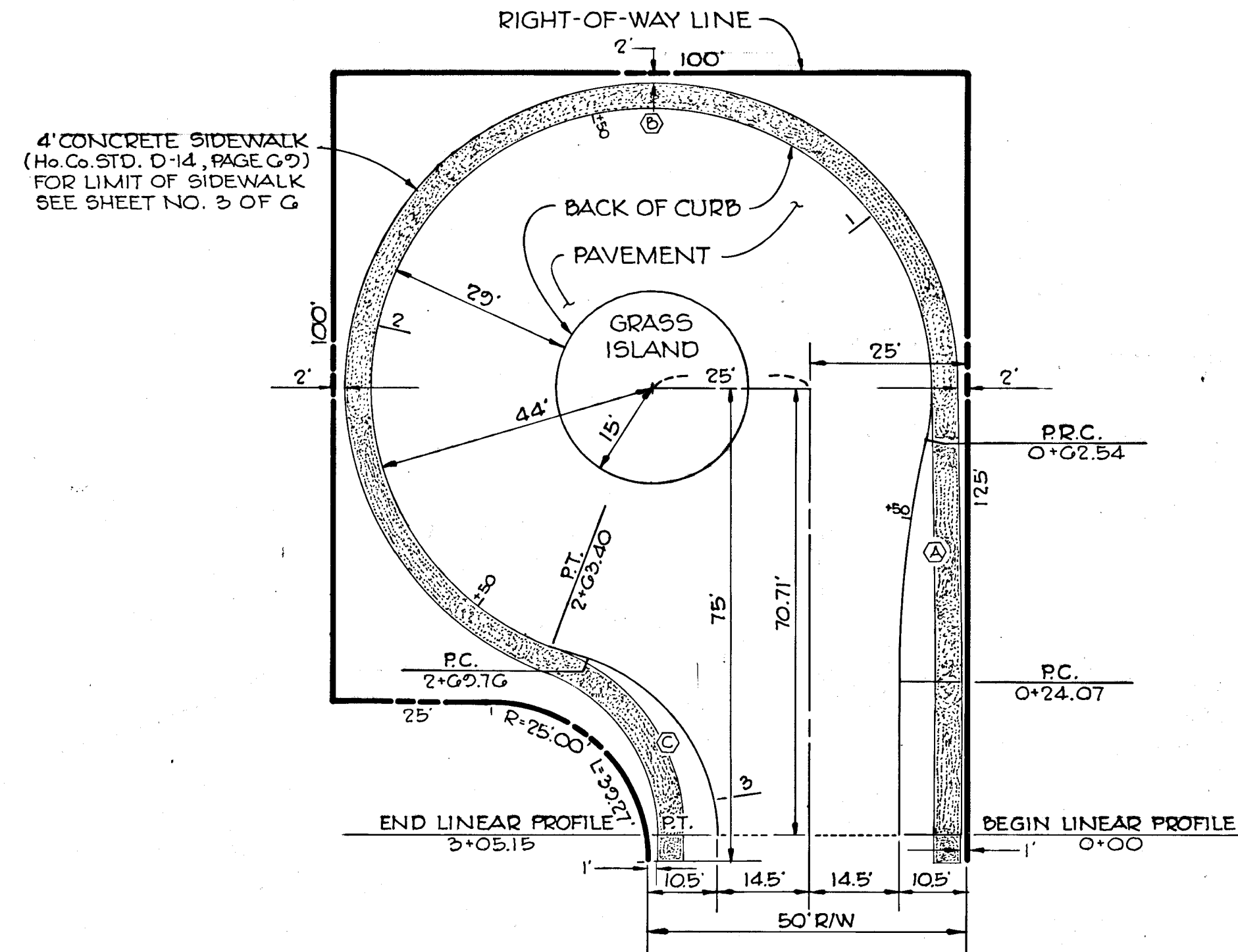


CLEARING AND GRADING — ARTICLE C-1
SUBGRADE — ARTICLE C-2
BASE COURSE — ARTICLE C-31 OR C-33
SURFACE COURSE — ARTICLE C-31

PATHWAY PAVING
NO SCALE

CURB CURVE DATA				
CURVE	RADIUS	LENGTH	Δ	TANGENT
(A)	200.00'	38.47'	11° 01' 15"	19.29'
(B)	44.00'	20.86'	26° 32' 55"	-
(C)	28.75'	35.39'	70° 31' 44"	20.53'

NOTE:
THIS IS AN ADAPTATION OF THE HOWARD COUNTY CUL-DE-SAC w/ ISLAND STANDARD DRAWING 33-A, PG. 88a.



CUL-DE-SAC w/ ISLAND FOR A 50' R/W

SCALE: 1" = 20'

APPROVED
DIVISION OF LAND DEVELOPMENT

HOWARD COUNTY, MARYLAND
DATE 5/16/76
[Signature]

Rev. Date	Rev. No.	Description
		DEPARTMENT OF PUBLIC WORKS
		Braville W. McLeod 4/6/76
		OFFICE OF PLANNING AND ZONING
		[Signature] 6/30/76

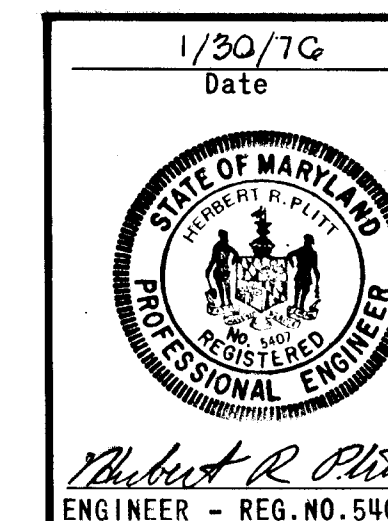
CENTURY ENGINEERING, INC.
CONSULTING ENGINEERS - PLANNERS
TOWSON, MARYLAND 21204

OWNER AND DEVELOPER
LANDBORG, INC., TRUSTEE
SUITE 210, 1000 CENTURY PLAZA
COLUMBIA, MARYLAND

C O L U M B I A
2ND ELECTION DISTRICT HOWARD COUNTY
PROJECT AREA VILLAGE OF OWEN BROWN SECTION 4 AREA 2

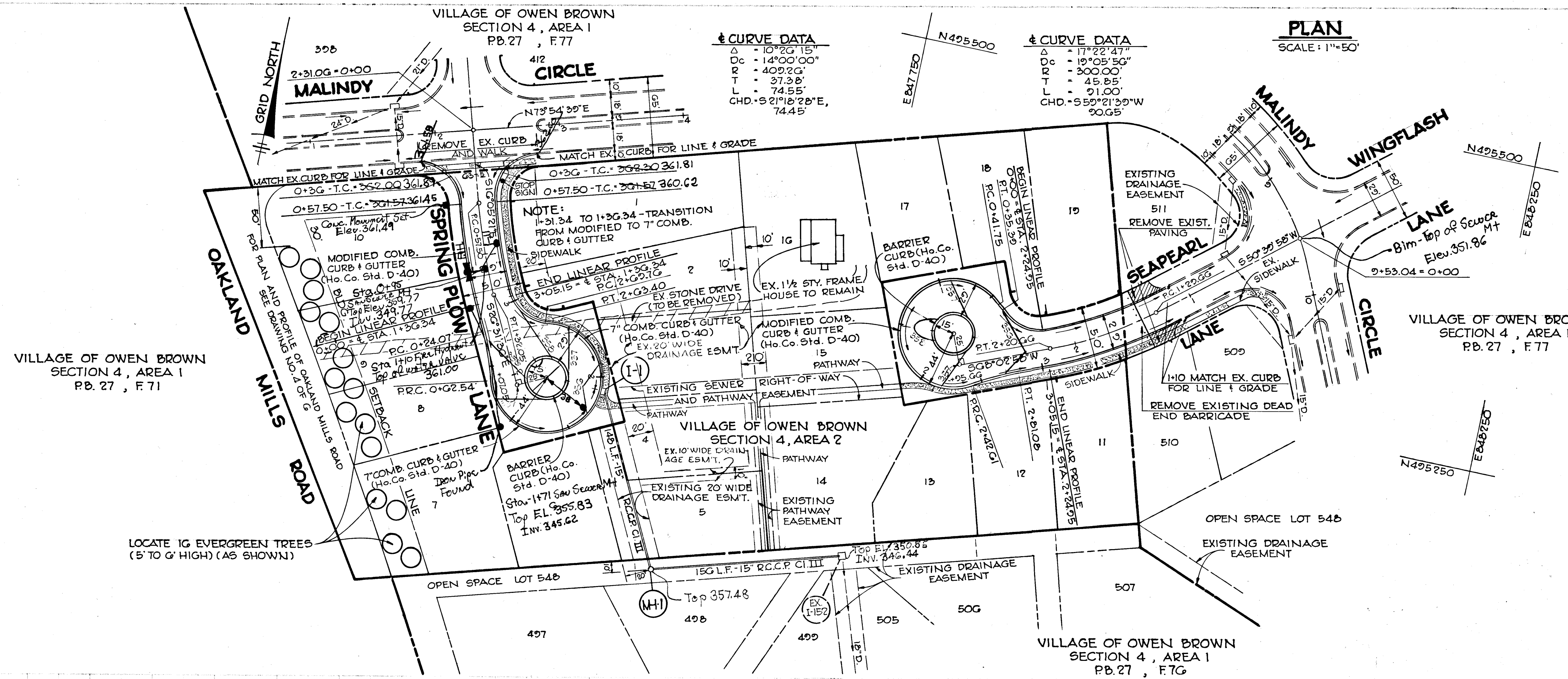
PROJECT TITLE
TYPICAL SECTIONS AND DETAILS

Des. By: A.W.R.	Scale: AS SHOWN	Dwg. No.
Drn. By: A.W.R.	Date: 1-30-76	2 OF 6
Chk. By:	Job No.: 1875	



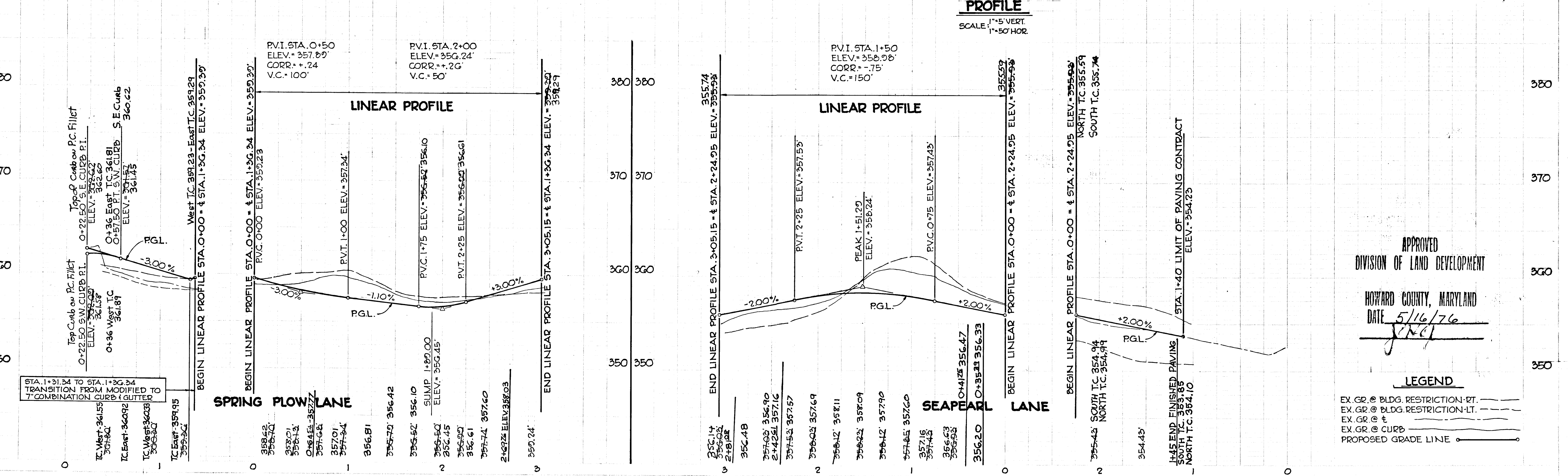
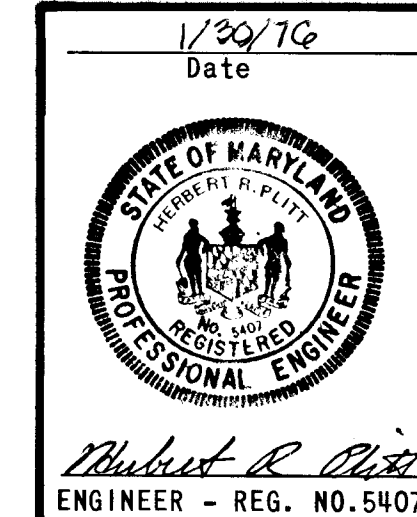
As-Built Feb. 26, 1979

F-76-70c



		STRUCTURE SCHEDULE				
NO.	TYPE	LOCATION	INV. IN	INV. OUT	TOP EL.	REMARKS
I-1	A-5 (2.5 WIDE)	L.P. 1-64 - RT. SPRING FLOW LA.	355.24	355.24	356.45	HO. CO. STD. D-64A PG. 119-A
MH-1	STANDARD MANHOLE	AS SHOWN	351.57	351.42	356.30	HO. CO. STD. D-103 PG. 158

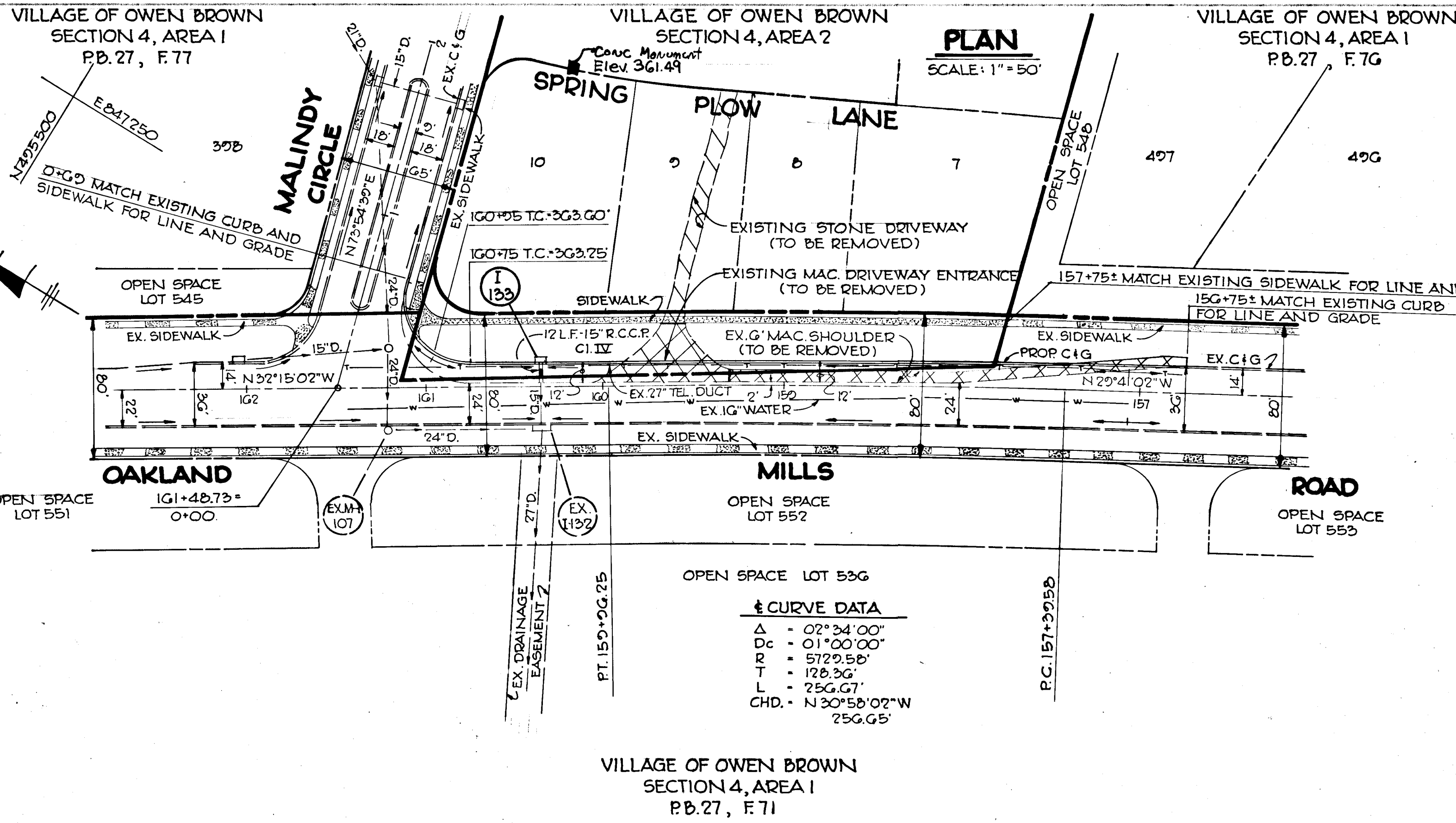
Rev. Date	Rev. No.	Description
		DEPARTMENT OF PUBLIC WORKS
		<i>Lawrence W. McLeod</i> 7/6/76 CHIEF, BUREAU OF HIGHWAYS DATE
		OFFICE OF PLANNING AND ZONING
		<i>J. H. Lawson</i> 6/30/76 CHIEF, DIVISION OF LAND DEVELOPMENT DATE
CENTURY ENGINEERING, INC. CONSULTING ENGINEERS - PLANNERS TOWSON, MARYLAND 21204		
OWNER AND DEVELOPER LANDBORG, INC., TRUSTEE SUITE 210, 1000 CENTURY PLAZA COLUMBIA, MARYLAND		
C O L U M B I A		
2ND ELECTION DISTRICT HOWARD COUNTY		
PROJECT AREA VILLAGE OF OWEN BROWN SECTION 4 AREA 2		
PROJECT TITLE PLAN AND PROFILE SEAPEARL LANE - STA. 1+40 TO END SPRING FLOW LANE - STA. 0+00 TO END		
Des. By:	A.W.R.	Scale: AS SHOWN
Drn. By:	A.W.R.	Date: 1-30-76
Chk. By:		Job No.: 1875
		Dwg. No. 3 OF 6



APPROVED
DIVISION OF LAND DEVELOPMENT
HOWARD COUNTY, MARYLAND
DATE 5/16/76
J. H. C.

LEGEND

EX. GR. @ BLDG. RESTRICTION-RT.	---
EX. GR. @ BLDG. RESTRICTION-LT.	---
EX. GR. @ C	---
EX. GR. @ CURB	---
PROPOSED GRADE LINE	—



NO.		TYPE		LOCATION	INV. IN	INV. OUT	TOP EL.	REMARKS
L-133	A-5	(2.5' WIDE)		160+35 - RT.	-	355.02	365.04	HO. CO. STD. D-64-A PG. 119-A
						353.54	363.04	

Rev. Date	Rev. No.	Description
		DEPARTMENT OF PUBLIC WORKS
		<i>Greenville M. Mclelland</i> 7/16/76 CHIEF, BUREAU OF HIGHWAYS
		OFFICE OF PLANNING AND ZONING
		<i>J. H. Clawson</i> 6/30/76 CHIEF, DIVISION OF LAND DEVELOPMENT

CENTURY ENGINEERING, INC.
CONSULTING ENGINEERS - PLANNERS
TOWSON, MARYLAND 21204

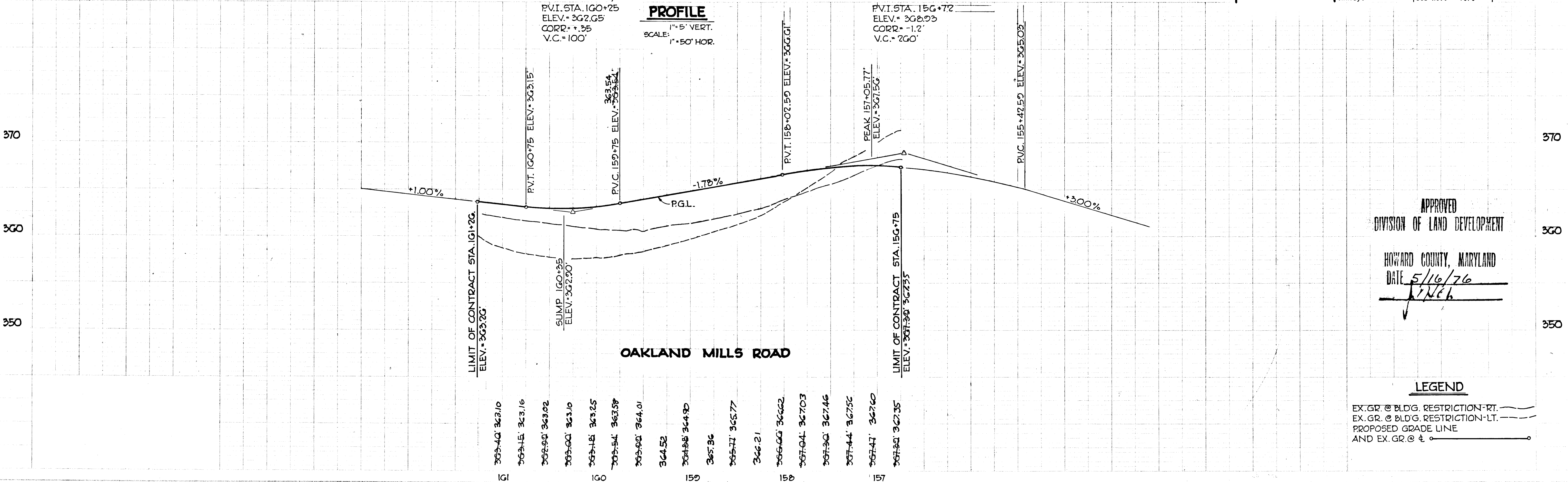
OWNER AND DEVELOPER
LANDBORG, INC., TRUSTEE
SUITE 210, 1000 CENTURY PLAZA
COLUMBIA, MARYLAND

1/30/76
Date

Robert R. Pitt
ENGINEER - REG. NO. 5407

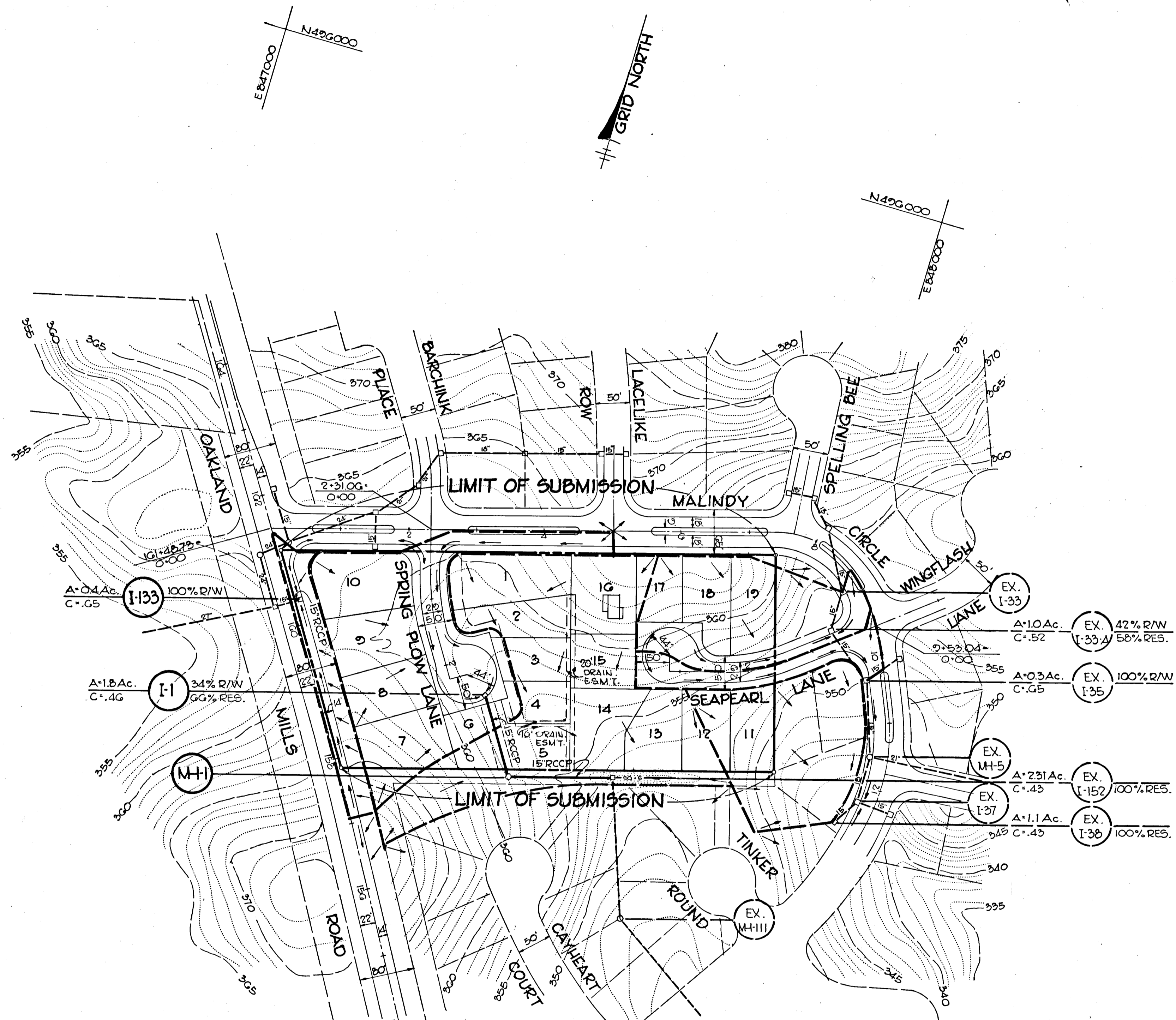
2ND ELECTION DISTRICT		HOWARD COUNTY	
PROJECT AREA		VILLAGE OF OWEN BROWN SECTION 4 AREA 2	
PROJECT TITLE PLAN AND PROFILE OAKLAND MILLS ROAD STA. 156+75 TO 161+26			
Des. By: A.W.R.	Scale: AS SHOWN	Dwg. No.	
Drn. By: A.W.R.	Date: 1-30-76	4 OF 6	
Chk. By:	Job NO.: 1875		

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



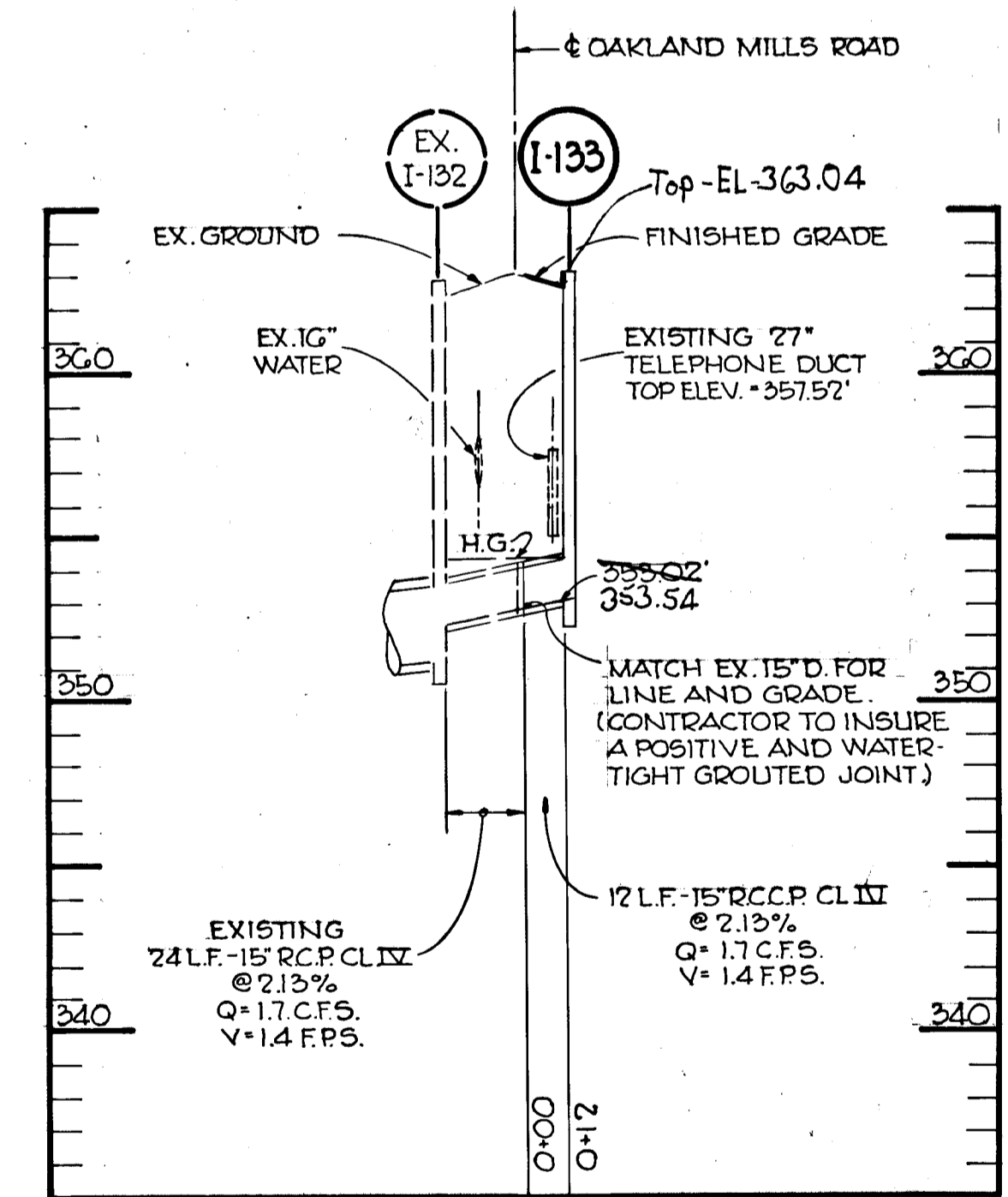
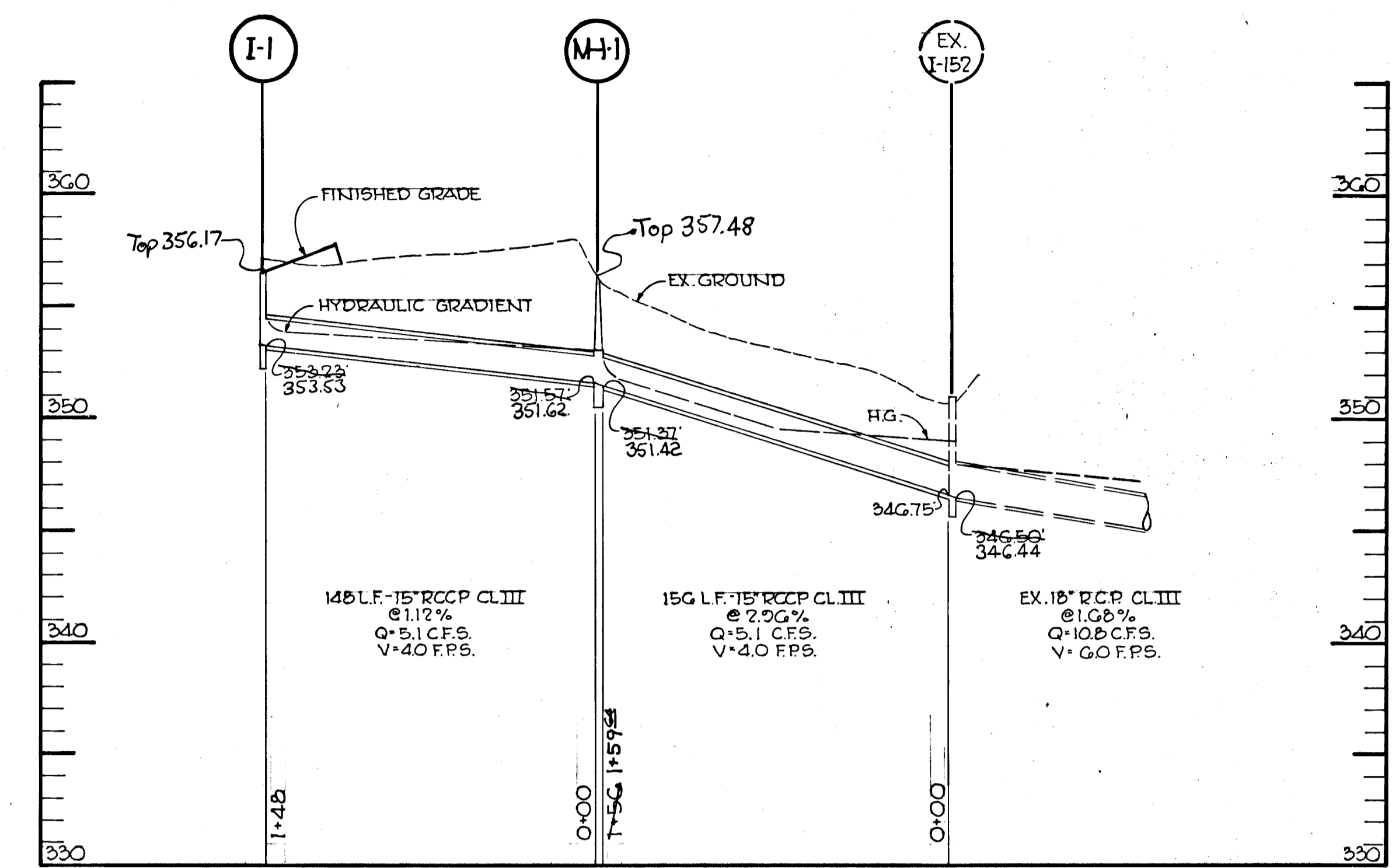
APPROVED
DIVISION OF LAND DEVELOPMENT
HOWARD COUNTY, MARYLAND
DATE 5/16/76
J. H. C.

LEGEND
EX. GR. @ BLDG. RESTRICTION-RT. ---
EX. GR. @ BLDG. RESTRICTION-LT. ---
PROPOSED GRADE LINE ---
AND EX. GR. @ ± ---



PLAN
SCALE: 1"=100'

PLAN
Scale



PROFILE
1"=5' VERT.
1"=50' HOR.

APPROVED
DIVISION OF LAND DEVELOPMENT

HOWARD COUNTY, MARYLAND
DATE 5/16/76
JRC

Rev. Date	Rev. No.	Description
		DEPARTMENT OF PUBLIC WORKS
		<i>Granville W. Ireland</i> 7/6/76 CHIEF, BUREAU OF HIGHWAYS DATE
		OFFICE OF PLANNING AND ZONING
		<i>W. Clavon</i> 6/30/76 CHIEF, DIVISION OF LAND DEVELOPMENT DATE

CENTURY ENGINEERING, INC.
CONSULTING ENGINEERS - PLANNERS
TOWSON, MARYLAND 21204

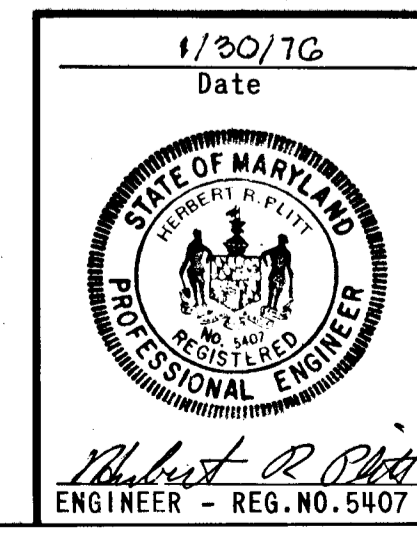
OWNER AND DEVELOPER
LANDBORG, INC., TRUSTEE
SUITE 210, 1000 CENTURY PLAZA
COLUMBIA, MARYLAND

COLUMBIA
2ND ELECTION DISTRICT HOWARD COUNTY

PROJECT AREA
VILLAGE OF OWEN BROWN
SECTION 4 AREA 2

PROJECT TITLE
DRAINAGE AREA MAP AND
STORM DRAIN PROFILES

Des. By: A.W.R.	Scale: AS SHOWN	Dwg. No.
Drn. By: A.W.R.	Date: 1-30-76	5 OF 6
Chk. By:	Job No.: 1875	



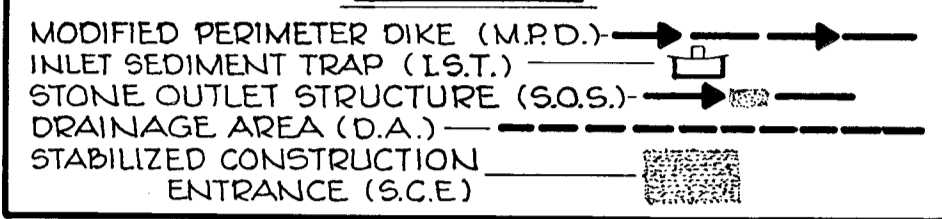
SEQUENCE OF CONSTRUCTION

1. INSTALL STABILIZED CONSTRUCTION ENTRANCES.
2. INSTALL MODIFIED PERIMETER DIKES & STONE OUTLET STRUCTURES.
3. INSTALL INLET W/SEDIMENT TRAP.
4. BEGIN ROAD CONSTRUCTION.
5. REMOVE SEDIMENT CONTROL DEVICES.

SITE ANALYSIS

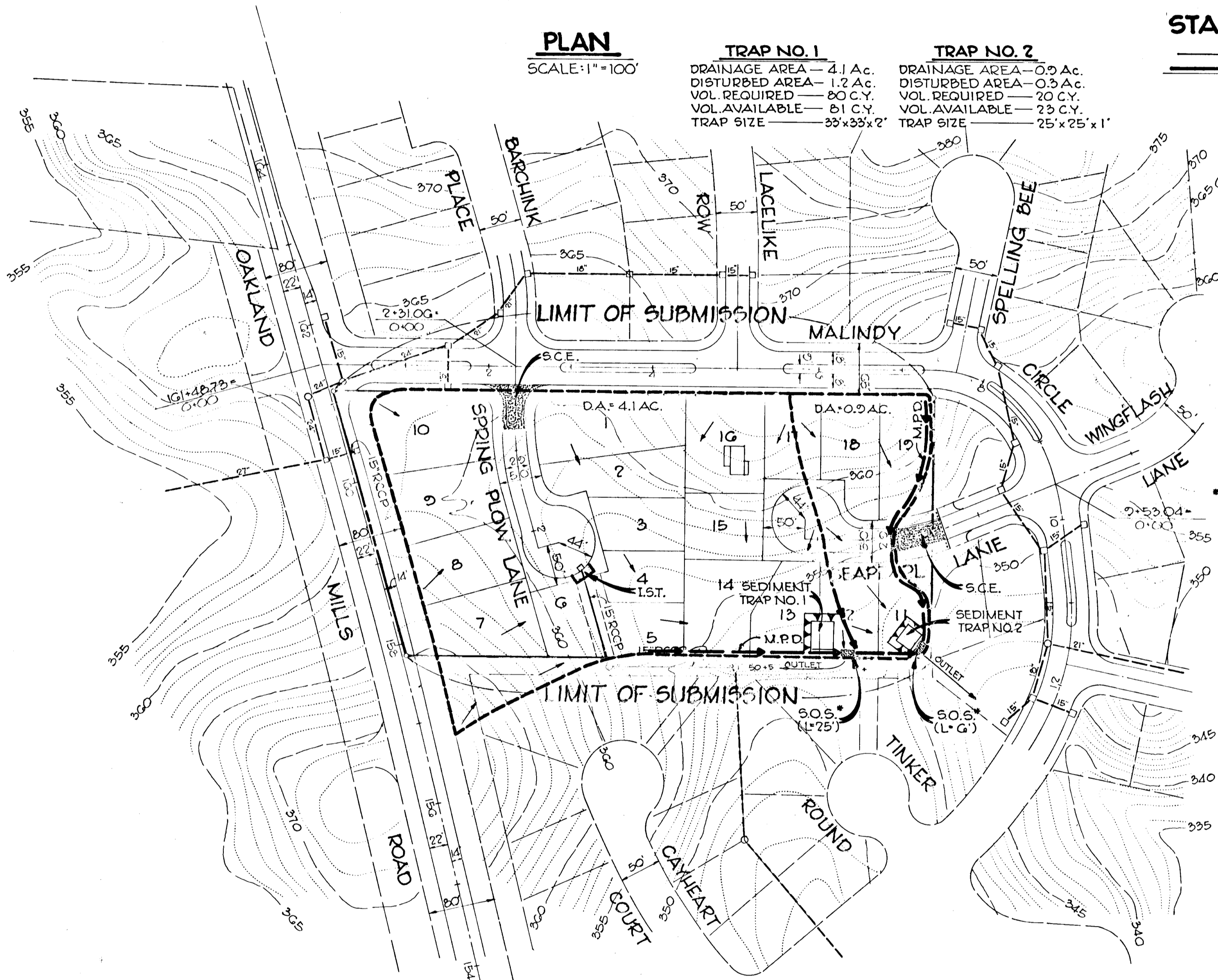
TOTAL AREA OF SITE	5.0 AC.
TOTAL AREA DISTURBED	1.5 AC.
TOTAL AREA OF PAVEMENTS	.7 AC.
TOTAL AREA RE-VEGETATED	.8 AC.

LEGEND



PLAN

SCALE: 1"=100'



TRAP NO. 1

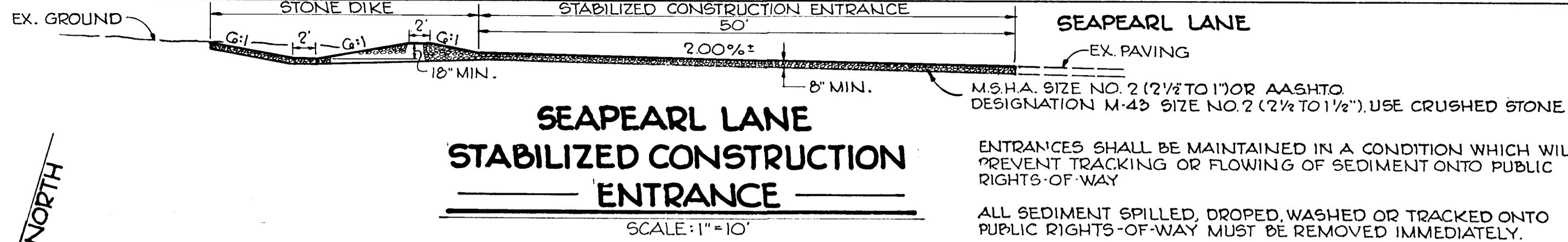
DRAINAGE AREA - 4.1 AC.
DISTURBED AREA - 1.2 AC.
VOL. REQUIRED - 80 CY.
VOL. AVAILABLE - 81 CY.
TRAP SIZE - 33'x33'x2'

TRAP NO. 2

DRAINAGE AREA - 0.9 AC.
DISTURBED AREA - 0.3 AC.
VOL. REQUIRED - 20 CY.
VOL. AVAILABLE - 23 CY.
TRAP SIZE - 25'x25'x1'

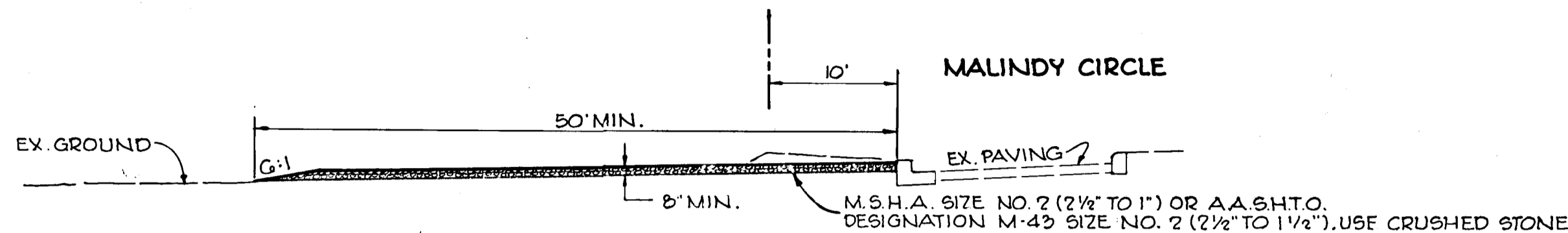
SEAPEARL LANE STABILIZED CONSTRUCTION ENTRANCE

SCALE: 1"=10'

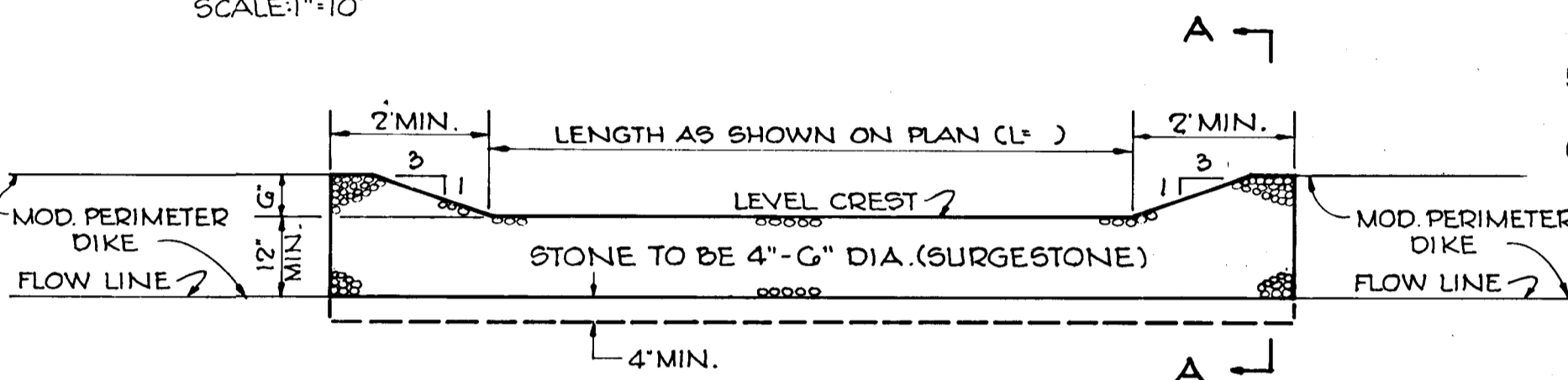


SPRING PLOW LANE STABILIZED CONSTRUCTION ENTRANCE

SCALE: 1"=10'



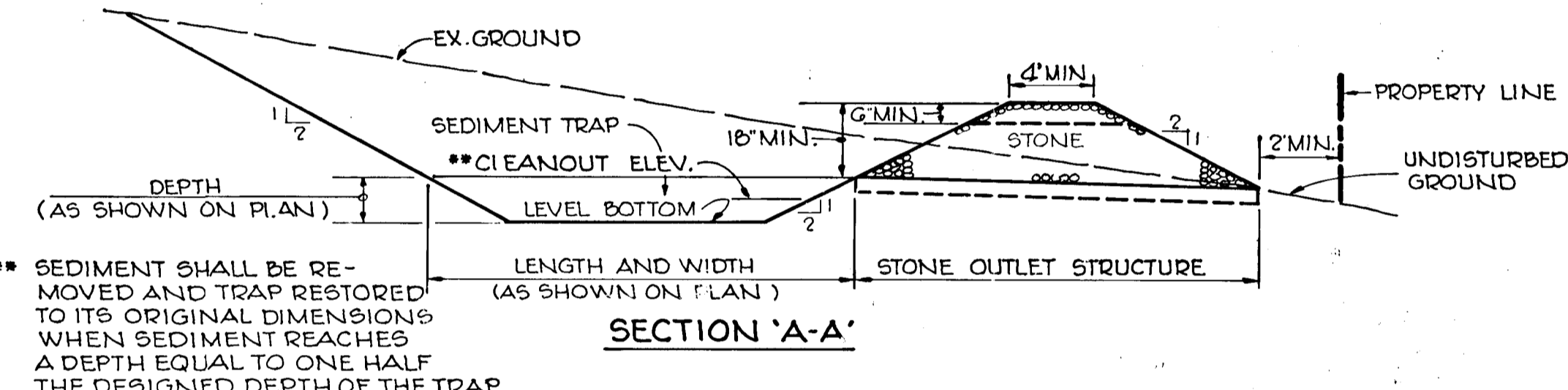
PROFILE



SECTION 'A-A'

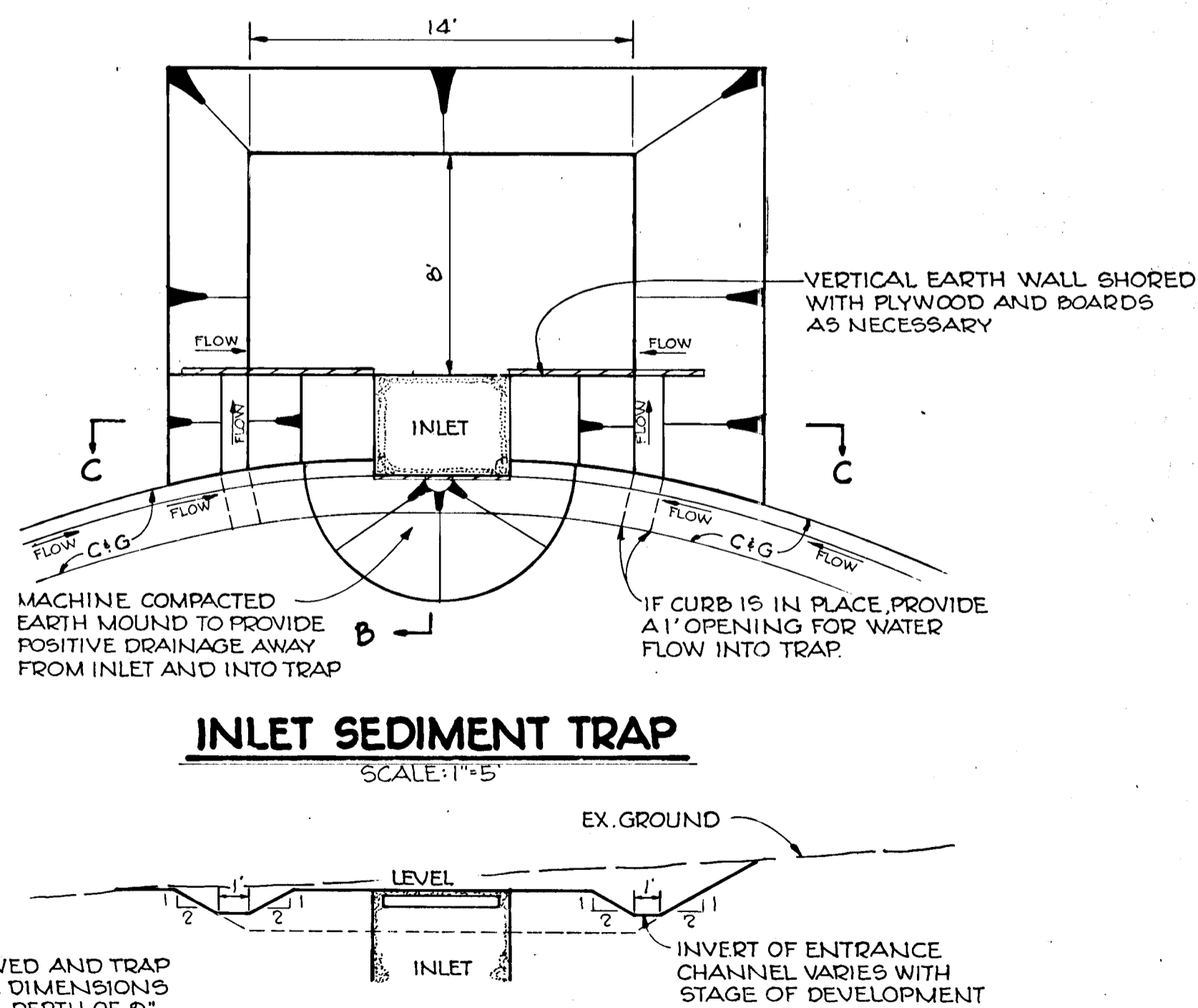
STONE OUTLET STRUCTURE

SCALE: 1"=10'



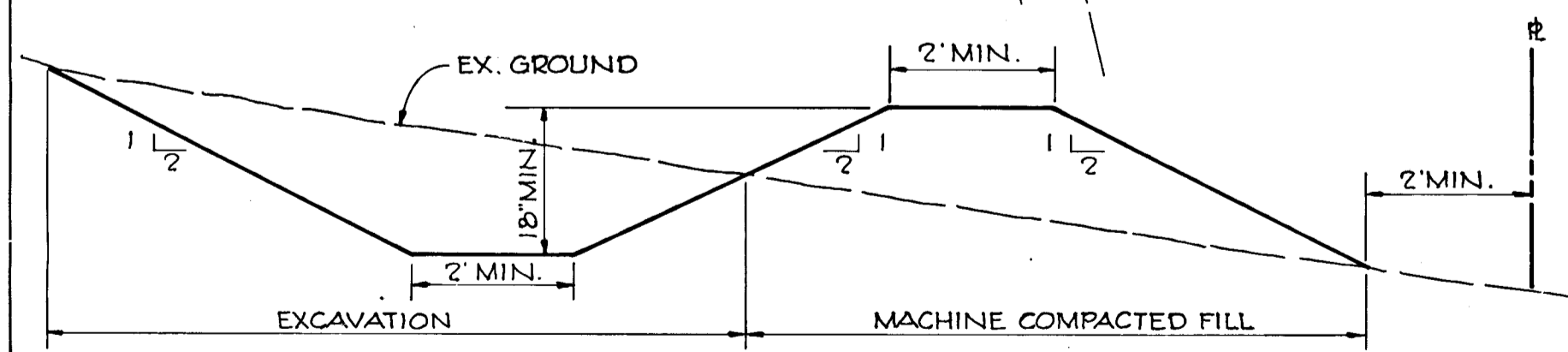
INLET SEDIMENT TRAP

SCALE: 1"=5'

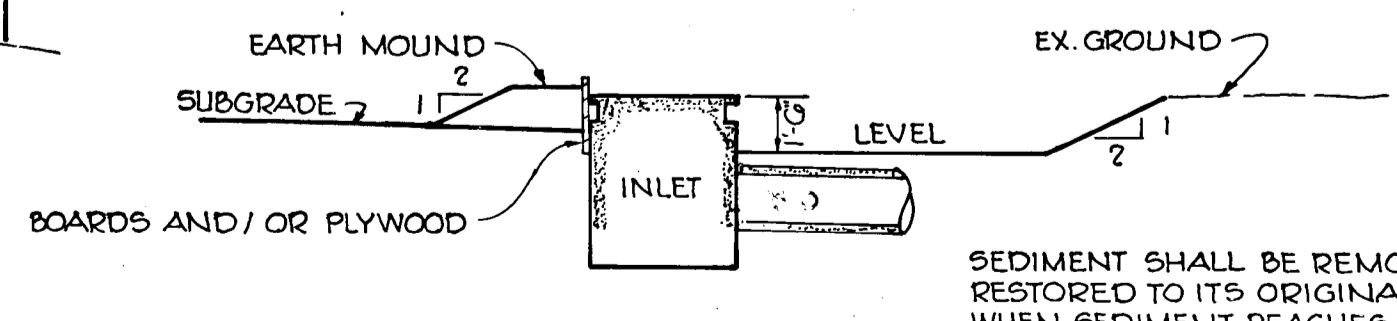


MODIFIED PERIMETER DIKE

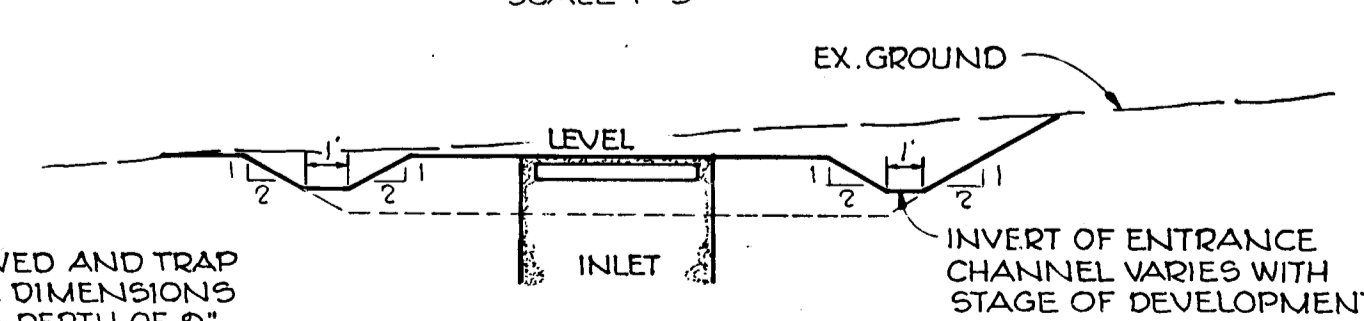
SCALE: 1"=2'



SECTION 'B-B'



SECTION 'C-C'



NOTE:

ALL PIPES IN OPEN TRENCHES DISCHARGING INTO EXISTING STORM DRAIN SYSTEMS SHALL BE PLUGGED W/ A PLYWOOD AND SANDBAG BULKHEAD AT THE END OF EACH DAY'S WORK.

SEDIMENT CONTROL CONSTRUCTION NOTES

STABILIZATION

1. STABILIZATION OF ALL DISTURBED AREAS WILL TAKE PLACE AS EARLY AS WEATHER CONDITIONS PERMIT AS FOLLOWS:
 - A. APPLY GROUND LIMESTONE AT 2 TONS PER ACRE
 - B. APPLY 10-10-10 FERTILIZER AT 1000 LBS. PER ACRE
 - C. WORK BOTH INTO SOIL AND PREPARE AREA TO BE SEEDED WITH A YORK RAKE
 - D. SEEDING
 - SEED ALL AREAS WITH KENTUCKY 31 TALL FESCUE AT 120 LBS. PER ACRE AND ANNUAL RYE GRASS AT 15 LBS. PER ACRE
 - E. MULCHING
 - UNWEATHERED SMALL GRAIN STRAW WILL BE APPLIED AT 1-1/2 TO 2 TONS PER ACRE AND TACKED WITH ASPHALT @ .04 GAL. PER SQUARE FOOT.

GENERAL

1. A MINIMUM 24 HR. NOTICE MUST BE GIVEN TO THE HOWARD SOIL CONSERVATION DISTRICT (465-3130 OR 465-5000 EXT. 320) PRIOR TO THE START OF ANY CONSTRUCTION.
2. ALL CONSTRUCTION IS TO BE TOTALLY WITHIN THE LIMIT OF SUBMISSION.
3. ALL CONSTRUCTION IS TO BE IN ACCORDANCE WITH THE U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL IN DEVELOPING AREAS.
4. ALL SEDIMENT CONTROL DEVICES ARE TO BE INSPECTED AFTER EACH RAIN AND REPLACED WHEN ANY DEVICE CEASES TO FUNCTION AS INTENDED DUE TO SILT ACCUMULATION, WASHOUT, CONSTRUCTION TRAFFIC DAMAGE ETC.
5. ALL OUTLETS TO DISCHARGE ONTO UNDISTURBED GROUND THAT IS SUFFICIENTLY ESTABLISHED TO BE EROSION RESISTANT.
6. ALL SEDIMENT CONTROL STRUCTURES ARE TO REMAIN IN PLACE AND ARE TO BE MAINTAINED IN EFFECTIVE CONDITION UNTIL PERMISSION FOR THEIR REMOVAL HAS BEEN OBTAINED FROM THE HOWARD SOIL CONSERVATION DISTRICT.

By the Developer:

"I certify that all development and/or construction will be done 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 or their authorized agents, as are deemed necessary".

Landborg, Inc. Trustee, about Hwy Proj. 2/18/76
Signature of Developer Date

By the Engineer:

"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".

Robert R. Pitt
Signature of Engineer Date

Reviewed for HOWARD Name S.C.D.

and meets Technical Requirements

Eric V. Herman Date 6/30/76
Signature U.S. Soil Conservation Service

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

Approved *Robert R. Pitt* Date 6/30/76
Howard S.C.D.

APPROVED
HOWARD COUNTY, MD
DATE 5/16/76
J.M.C.

Rev. Date	Rev. No.	Description
		DEPARTMENT OF PUBLIC WORKS
		<i>Granville M. McNeel</i> 7/6/76 CHIEF, BUREAU OF HIGHWAYS DATE
		OFFICE OF PLANNING AND ZONING
		<i>J.M. McNeel</i> 6/30/76 CHIEF, DIVISION OF LAND DEVELOPMENT DATE

CENTURY ENGINEERING, INC.
CONSULTING ENGINEERS - PLANNERS
TOWSON, MARYLAND 21204
OWNER AND DEVELOPER
LANDBORG, INC., TRUSTEE
SUITE 210, 1000 CENTURY PLAZA
COLUMBIA, MARYLAND

1/20/76
Date
Robert R. Pitt
ENGINEER - REG. NO. 5407

COLUMBIA		
2ND ELECTION DISTRICT HOWARD COUNTY		
PROJECT AREA	VILLAGE OF OWEN BROWN SECTION 4 AREA 2	
PROJECT TITLE	SEDIMENT CONTROL PLAN AND DETAILS	
Des. By: A.W.R.	Scale: AS SHOWN	Dwg. No.
Drn. By: A.W.R.	Date: 1-30-76	6 OF 6
Chk. By:	Job No.: 1875	