

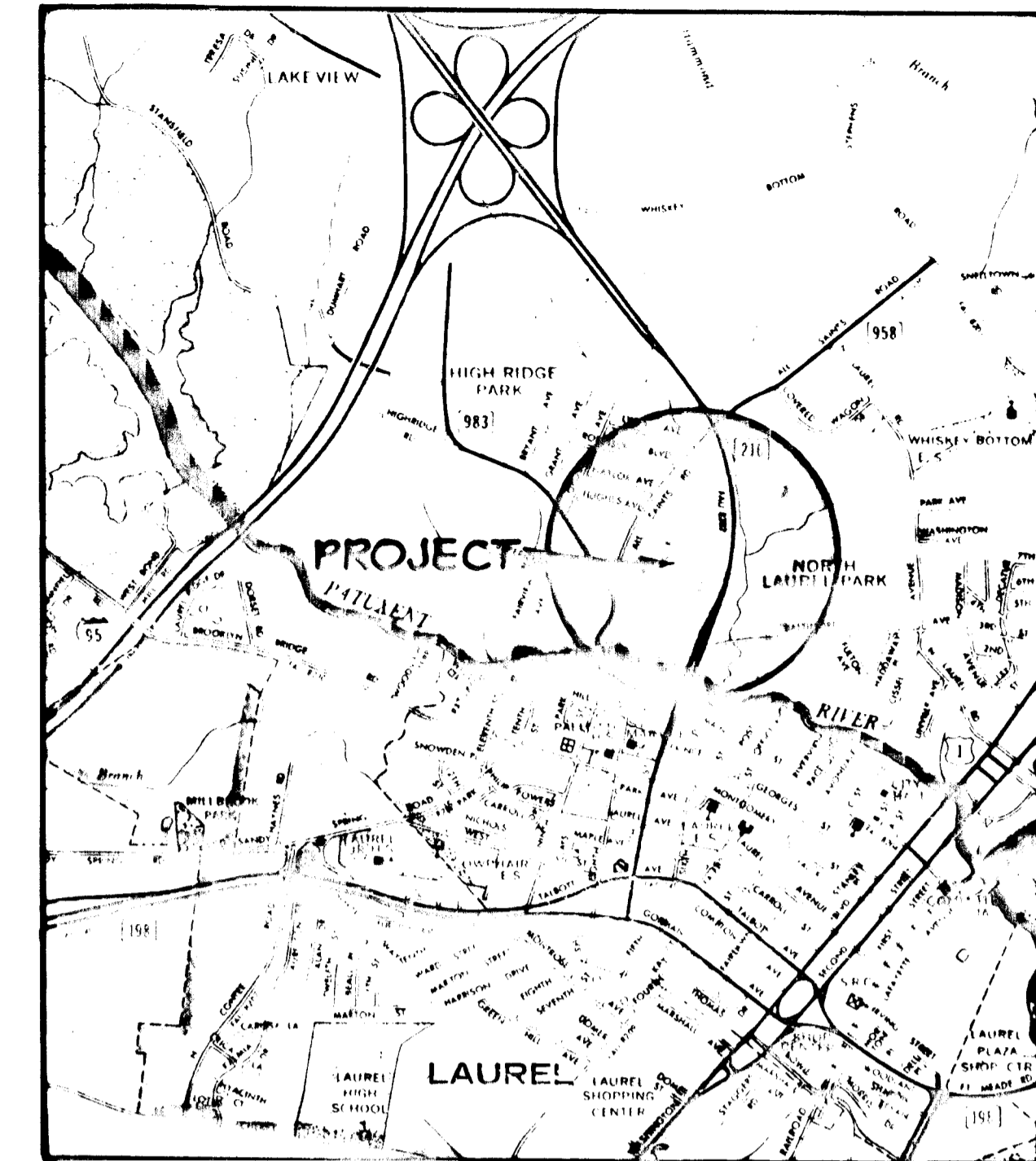
SHEET INDEX	
NO.	DESCRIPTION
1	TITLE SHEET
2	PLAN - PILGRIM AVE., HARVEST WAY, MAYFLOWER COURT
3	ROADWAY PROFILES
4	DETAILS AND STORM DRAIN PROFILES
5	DRAINAGE AREA MAP
6	PLANTING PLAN
7	SEDIMENT CONTROL PLAN
8	SUPPLEMENTAL SEDIMENT CONTROL PLAN
9	SWM DETAILS AND SEDIM. CONT. DETAILS AND NOTES

ROADWAY, STORM DRAIN & STORM WATER MANAGEMENT

SETTLER'S LANDING

6TH ELECTION DISTRICT

HOWARD COUNTY, MARYLAND



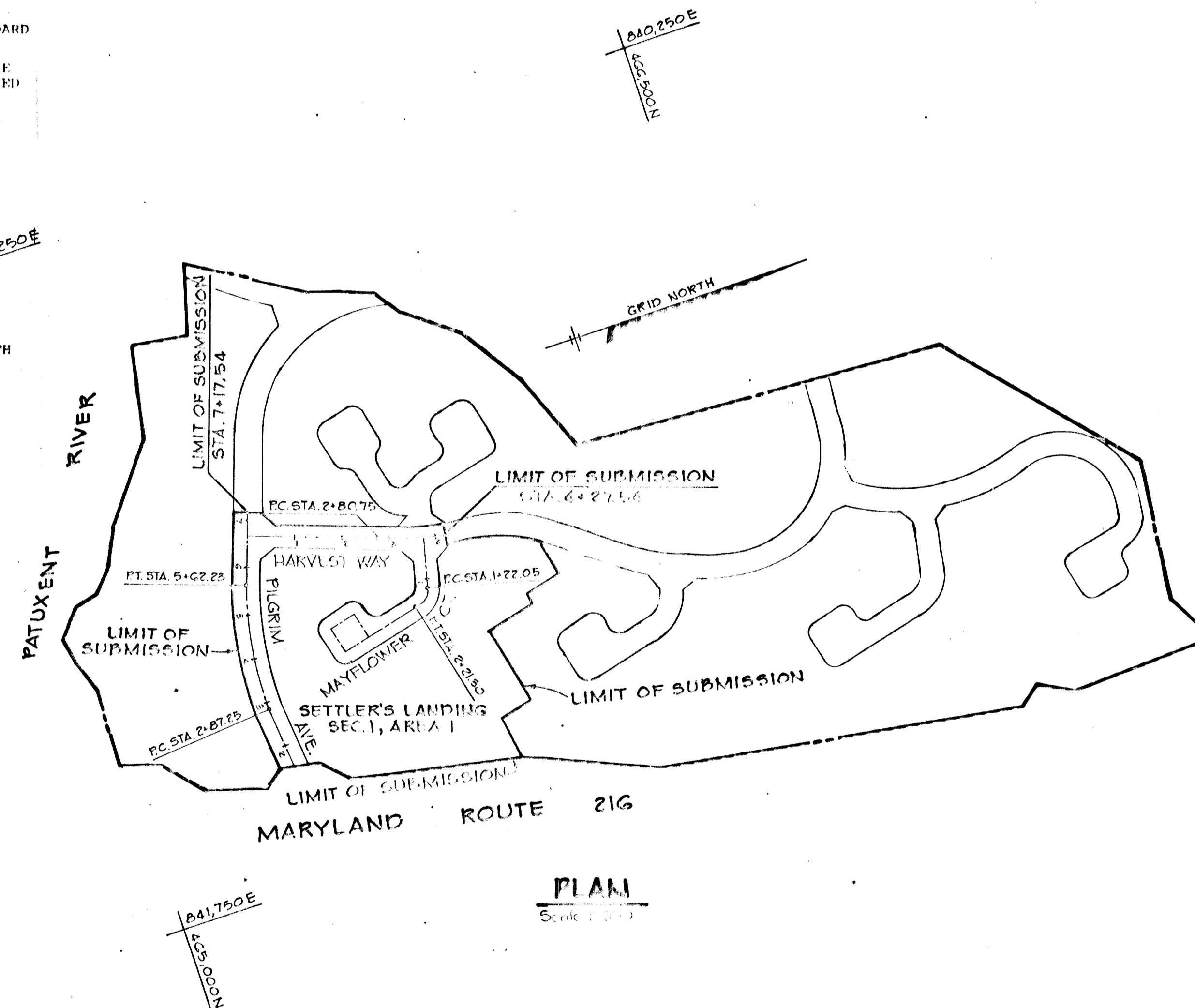
VICINITY MAP
Scale: 1" = 2000'

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 THESE DRAWINGS.

BELL TELEPHONE SYSTEM	393-3649
LONG DISTANCE CABLE DIVISION	393-3553 OR 3554
BALTIMORE GAS AND ELECTRIC COMPANY	539-8000, EXT. 691
HOWARD COUNTY BUREAU OF UTILITIES	992-2366
HOWARD COUNTY CONSTRUCTION/INSPECTION SURVEY DIVISION	992-2417/2418
- ALL INLETS SHALL BE CONSTRUCTED IN ACCORDANCE WITH HOWARD COUNTY STANDARDS.
- ALL STREET CURB RETURNS SHALL HAVE 35.0' RADII 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.
- PIPE SHALL NOT BE INSTALLED BY THE CONTRACTOR UNTIL THE LENGTH CALLED FOR AT EACH STATION HAS BEEN APPROVED BY THE ENGINEER IN THE FIELD.
- DESIGNED TRAFFIC SPEED IN ACCORDANCE WITH THE AMERICAN ASSOCIATION OF STATE HIGHWAY OFFICIAL STANDARDS:

ALL 60' RIGHT-OF-WAYS 35 M.P.H.
ALL 50' RIGHT-OF-WAYS 30 M.P.H.
- ALL ELEVATIONS SHOWN ARE BASED ON U.S.C. AND G. S. MEAN SEA LEVEL DATUM 1929.
- ALL FILL AREAS WITHIN ROADWAYS AND UNDER STRUCTURES TO BE COMPACTED TO A MINIMUM 95% COMPACTION.
- ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS.
- PROFILE STATIONS SHALL BE ADJUSTED AS NECESSARY TO CONFORM TO PLAN DIMENSIONS.
- SUBJECT PROPERTY ZONED R-SA PER 10-03-77 COMPREHENSIVE ZONING PLAN.



APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING

John M. Anderson 1-27-81
CHIEF, DIVISION OF LAND DEVELOPMENT DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

John M. Anderson 1-27-81
CHIEF, BUREAU OF ENGINEERING DATE

1-6-81 / REVISED AS PER H.C. COMMENTS DATED 12-31-80

OWNER: EASTON ASSOCIATES
12400 CLARKSVILLE PIKE
CLARKSVILLE, MARYLAND 21029

DEVELOPER: JACYN DEVELOPMENT GROUP
12400 CLARKSVILLE PIKE
CLARKSVILLE, MARYLAND 21029

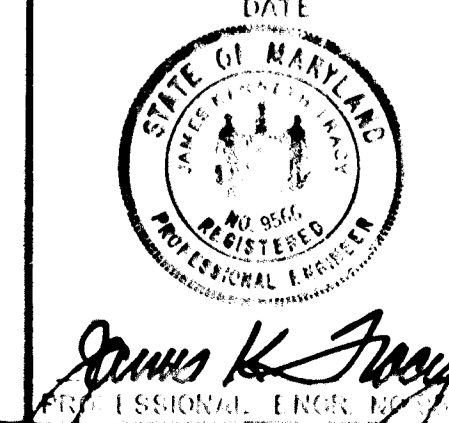
PROJECT: **SETTLER'S LANDING**
SECTION 1, AREA 1 LOTS 1 THRU 49

6TH ELECTION DISTRICT N4G HOWARD COUNTY, MARYLAND
TAX MAP N#50 PARCEL 34G

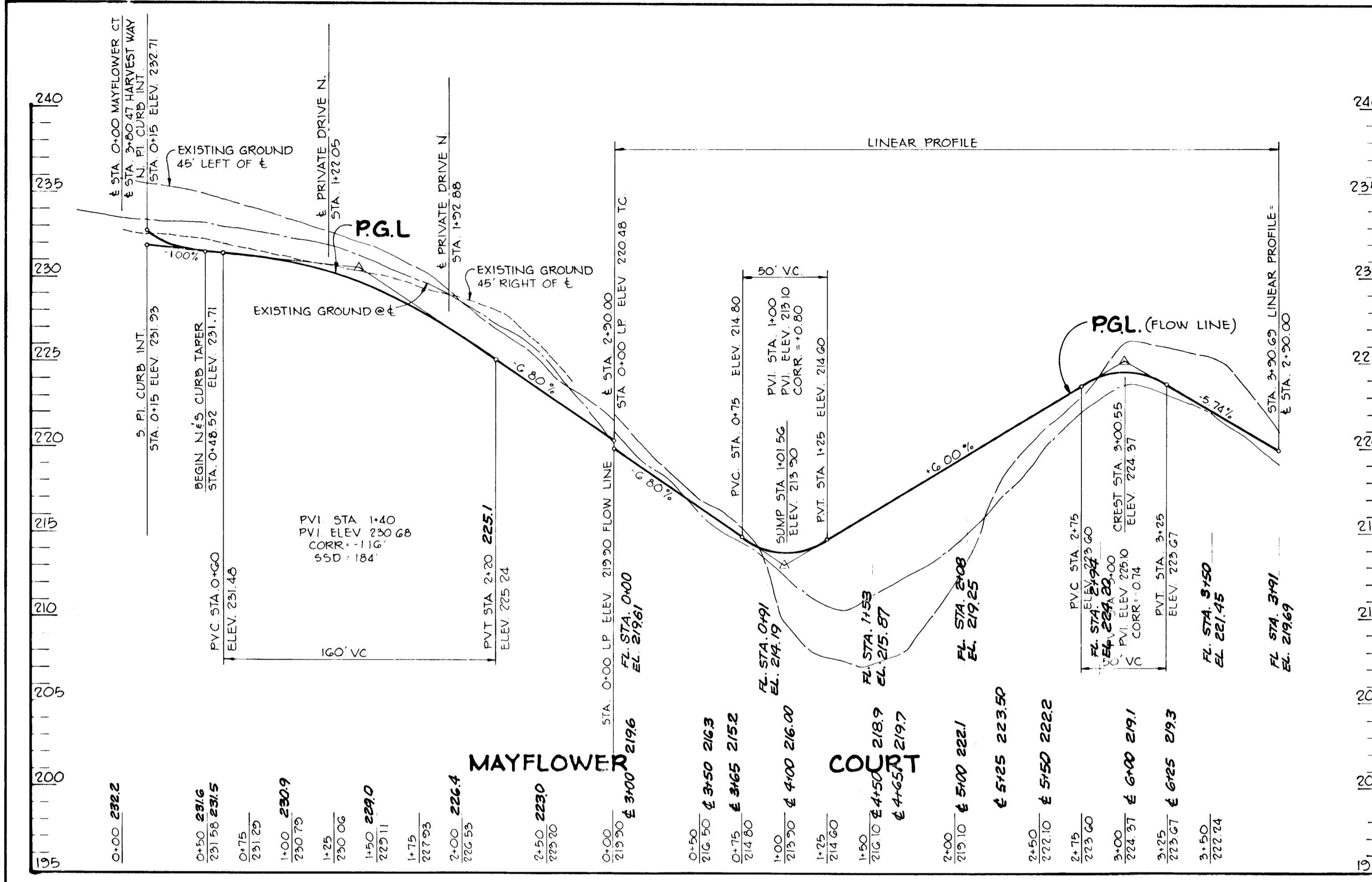
TITLE SHEET

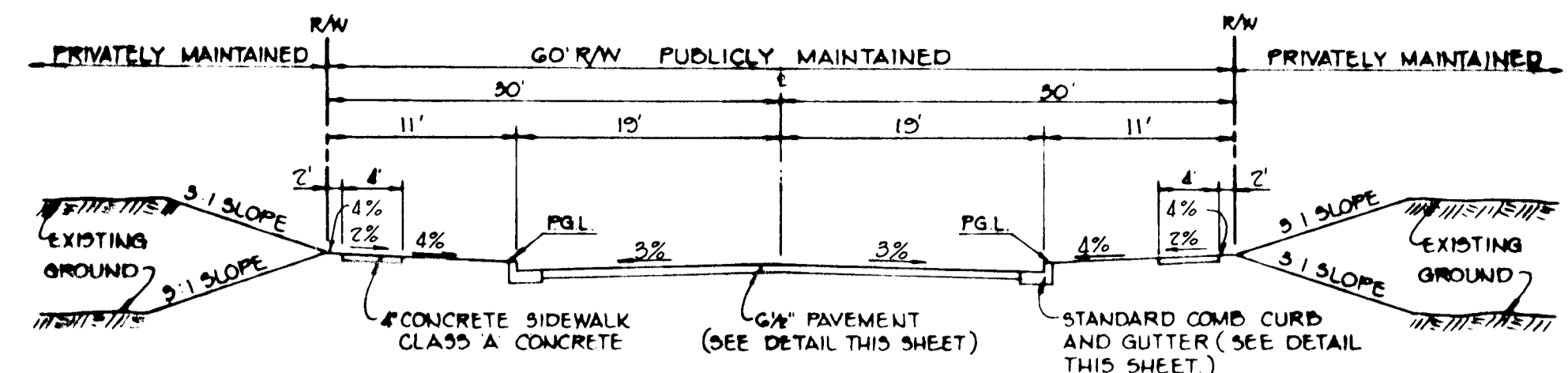
TR **Ricker, Tracy & Associates, Inc.**
8650 Baltimore National Pike
Ellicott City, Maryland 21043
(301) 461-2690
Land Planning, Design & Civil Engineering

1-7-81
DATE
DESIGNED BY: L.J.D.
DRAWN BY: J.L.T.
PROJECT NO: 1080
DATE: 8-8-80
SCALE: AS SHOWN
DRAWING NO. 1 OF 2

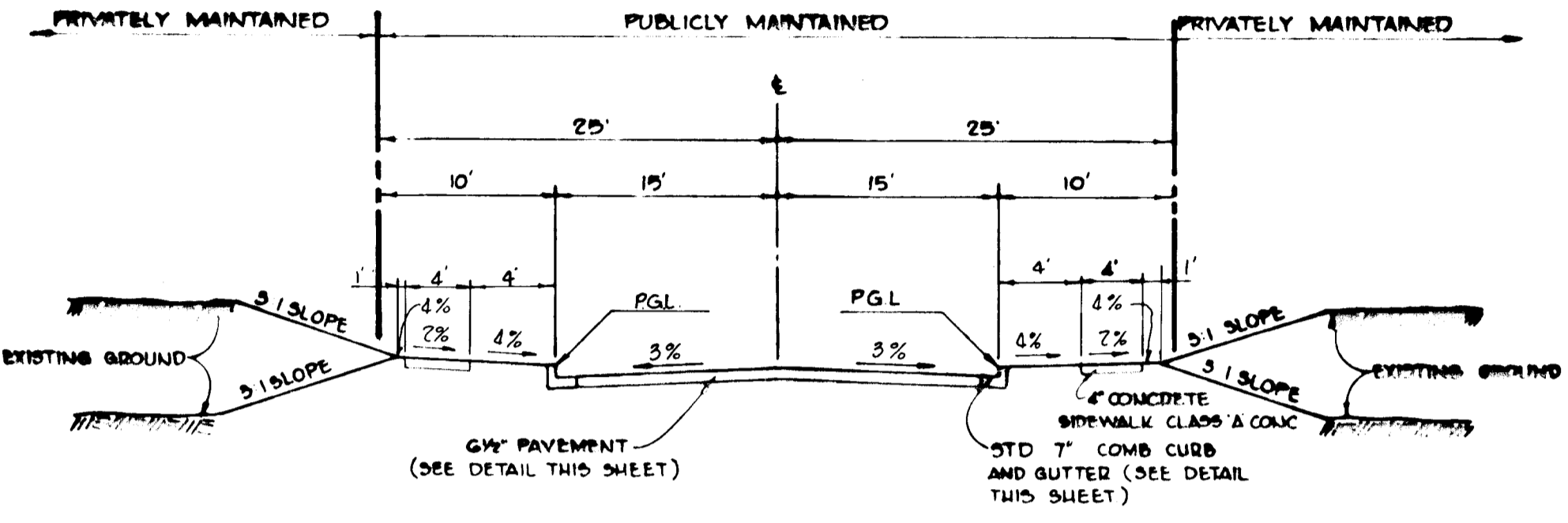


#882

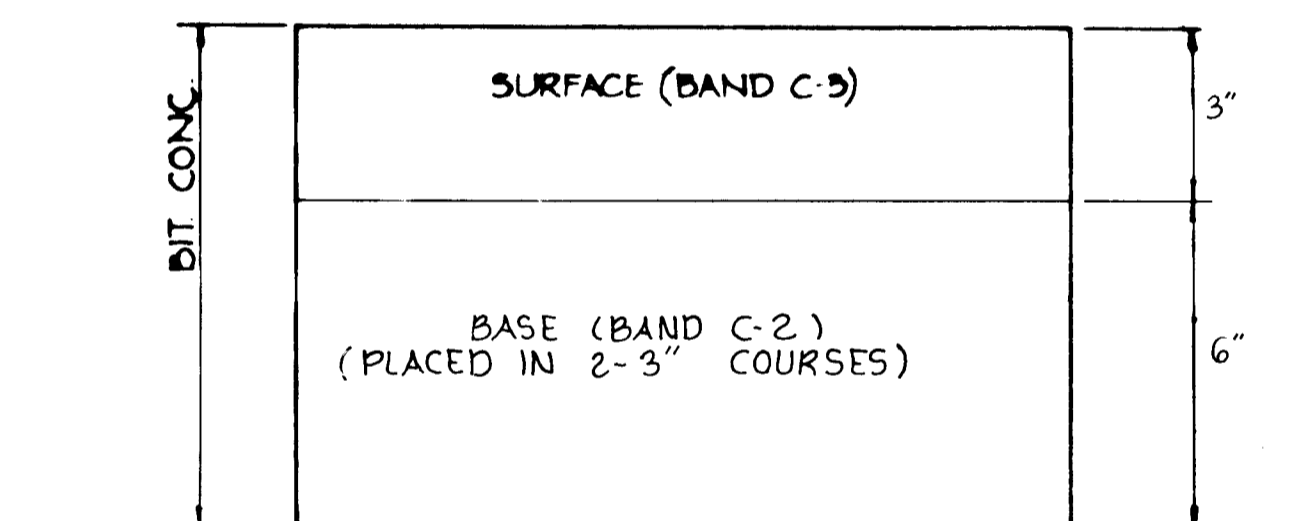




TYPICAL SECTION 60' R/W
No Scale



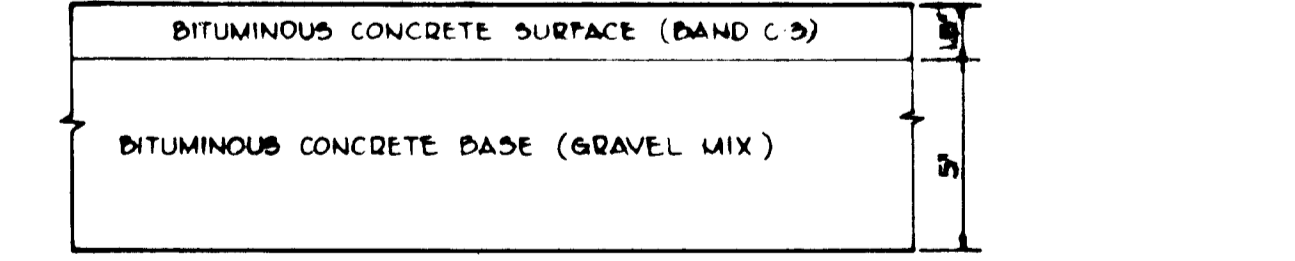
TYPICAL SECTION 50' R/W
No Scale



NOTES:
1. THE BASE WILL BE PRIMED IN ACCORDANCE WITH SECTION C-50-5 AS PROVIDED IN THE HOWARD COUNTY ROAD CONSTRUCTION CODE AND STANDARD SPECIFICATIONS.
2. A TACK COAT IS REQUIRED IN ACCORDANCE WITH SECTION C-51-4 OF THE HOWARD COUNTY ROAD CONSTRUCTION CODE AND STANDARD SPECIFICATIONS.
3. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE HOWARD COUNTY ROAD CONSTRUCTION CODE AND STANDARD SPECIFICATIONS.

ITEM	SEC.
CLEARING AND GRUBBING	C-1
SUBGRADE	C-2
BASE COURSE	C-25
BINDER COURSE	C-51 OR 55
SURFACE COURSE	C-51

PILGRIM AVENUE: STA. 0+40+ TO STA. 1+53+
MARYLAND RTE. 216: STA. 2+07 TO STA. 2+26
MARYLAND RTE. 216 LEFT TURN LANE

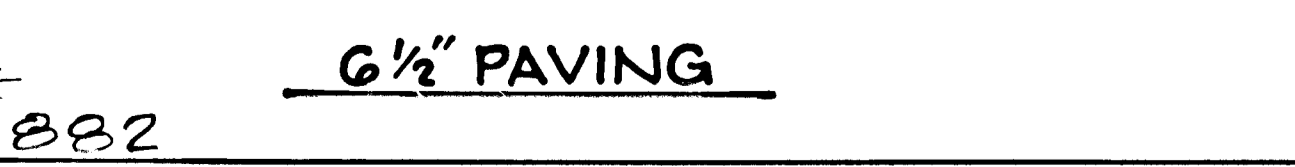


ITEM	ARTICLE
CLEARING AND GRADING	ARTICLE C-1
SUBGRADE	ARTICLE C-2
BASE COURSE	ARTICLE C-25
SURFACE COURSE	ARTICLE C-51

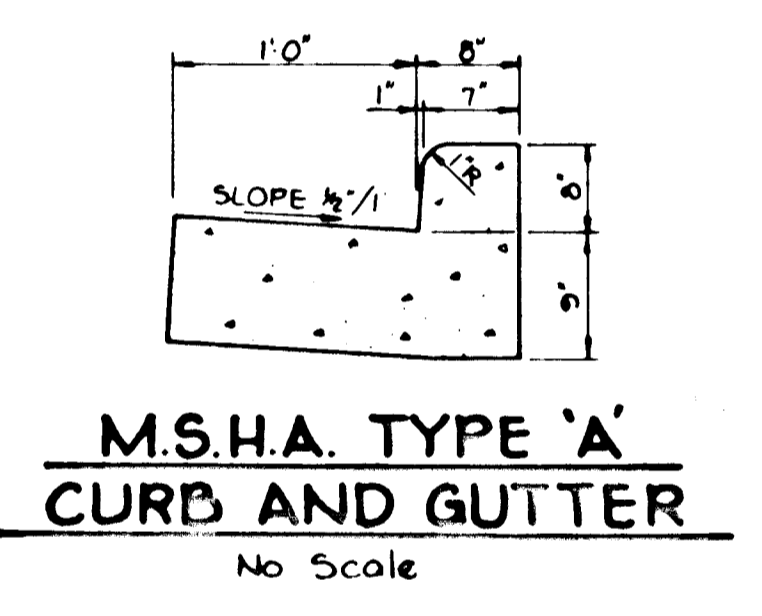
9" PAVING
No Scale

HOWARD COUNTY STANDARD (DRAWING D-5, PAGE 60)

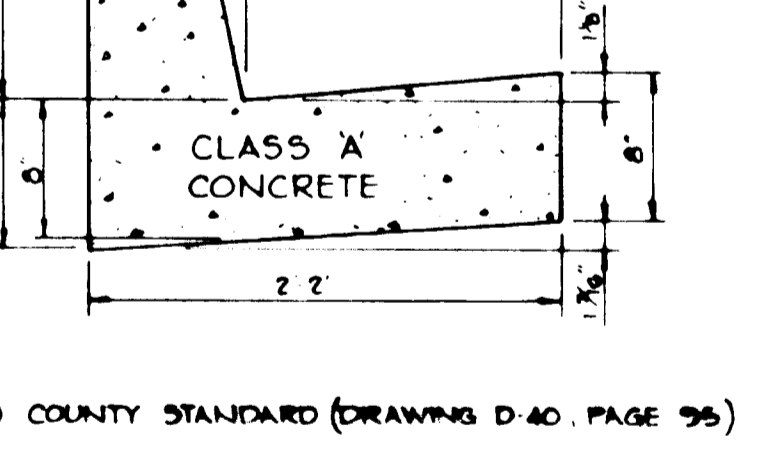
NOTES:
1. A TACK COAT IS REQUIRED IN ACCORDANCE WITH SECTION C-51-4 OF THE HOWARD COUNTY ROAD CONSTRUCTION CODE AND SPECIFICATIONS.
2. BASE WILL BE PRIMED IN ACCORDANCE WITH SECTION C-50-5 OF THE HOWARD COUNTY ROAD CONSTRUCTION CODE AND SPECIFICATIONS.
3. TO BE CONSTRUCTED IN ACCORDANCE WITH THE HOWARD COUNTY ROAD CONSTRUCTION CODE AND SPECIFICATIONS.



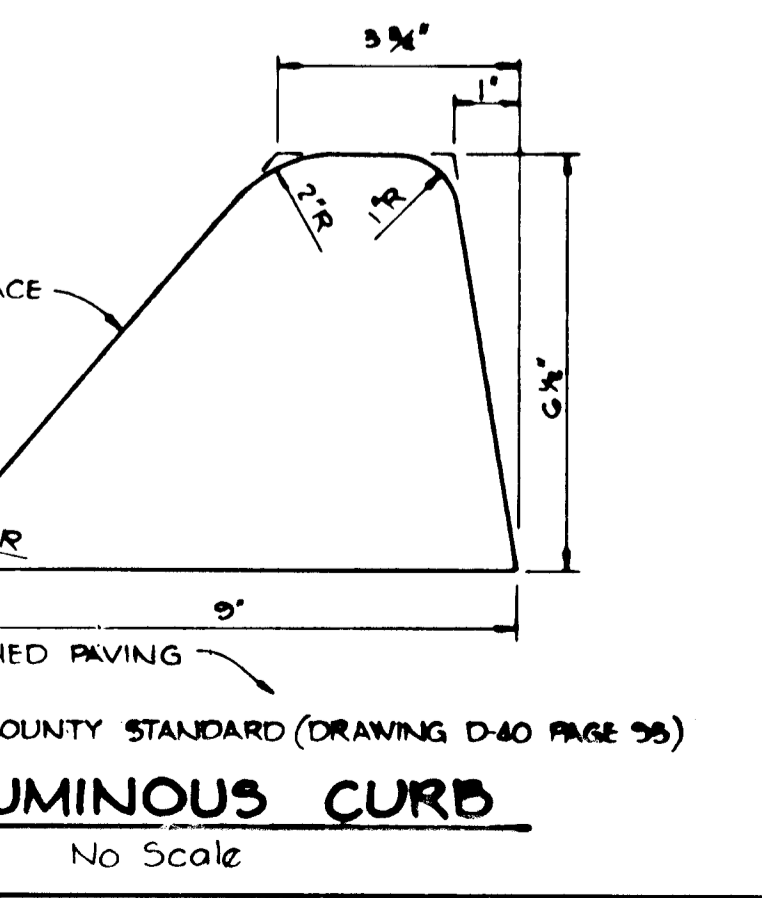
6 1/2" PAVING
No Scale



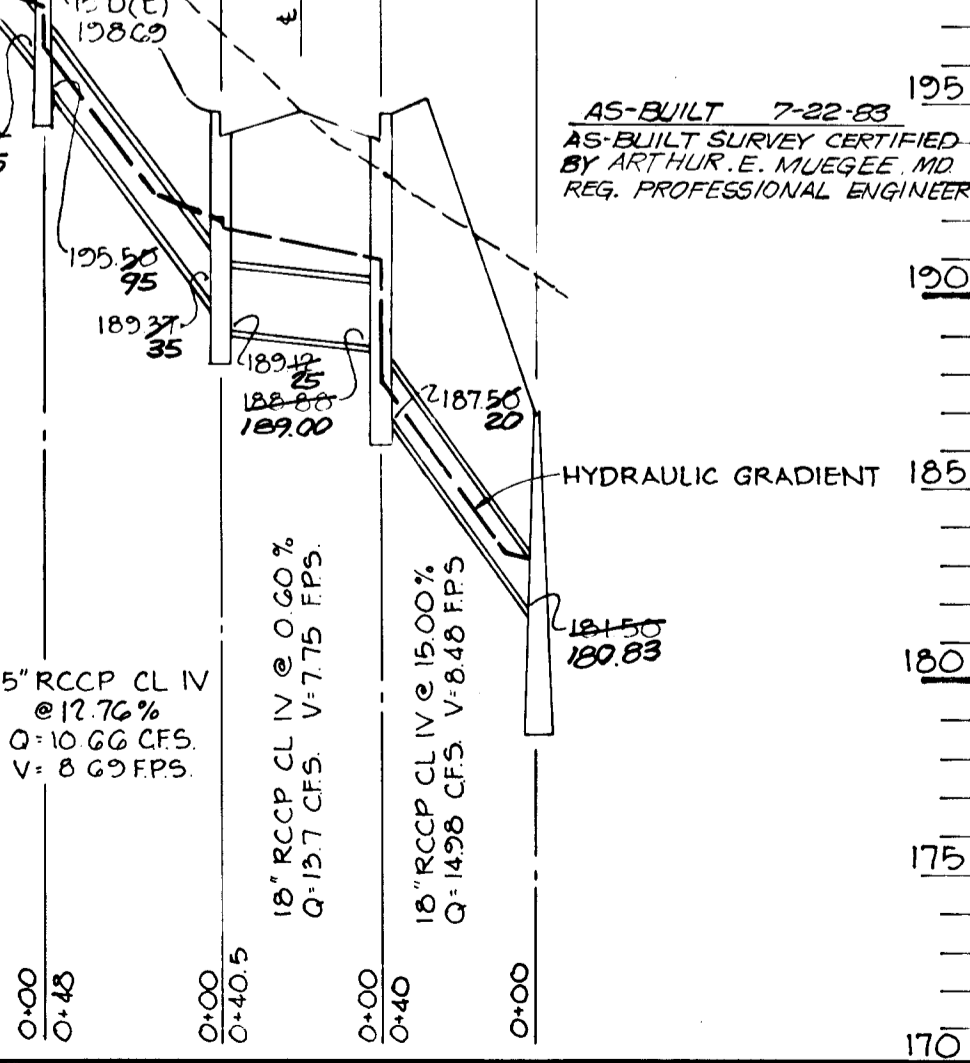
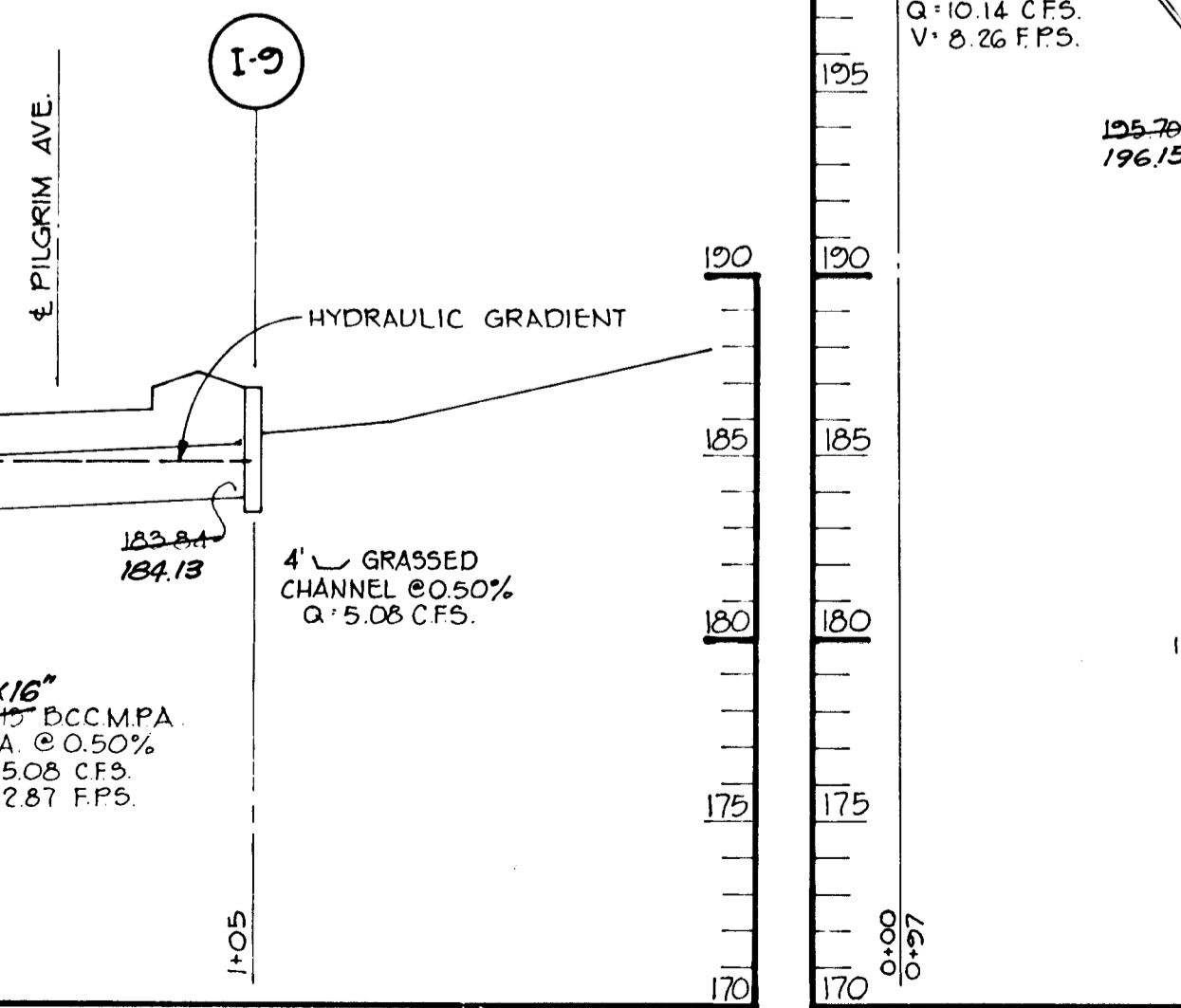
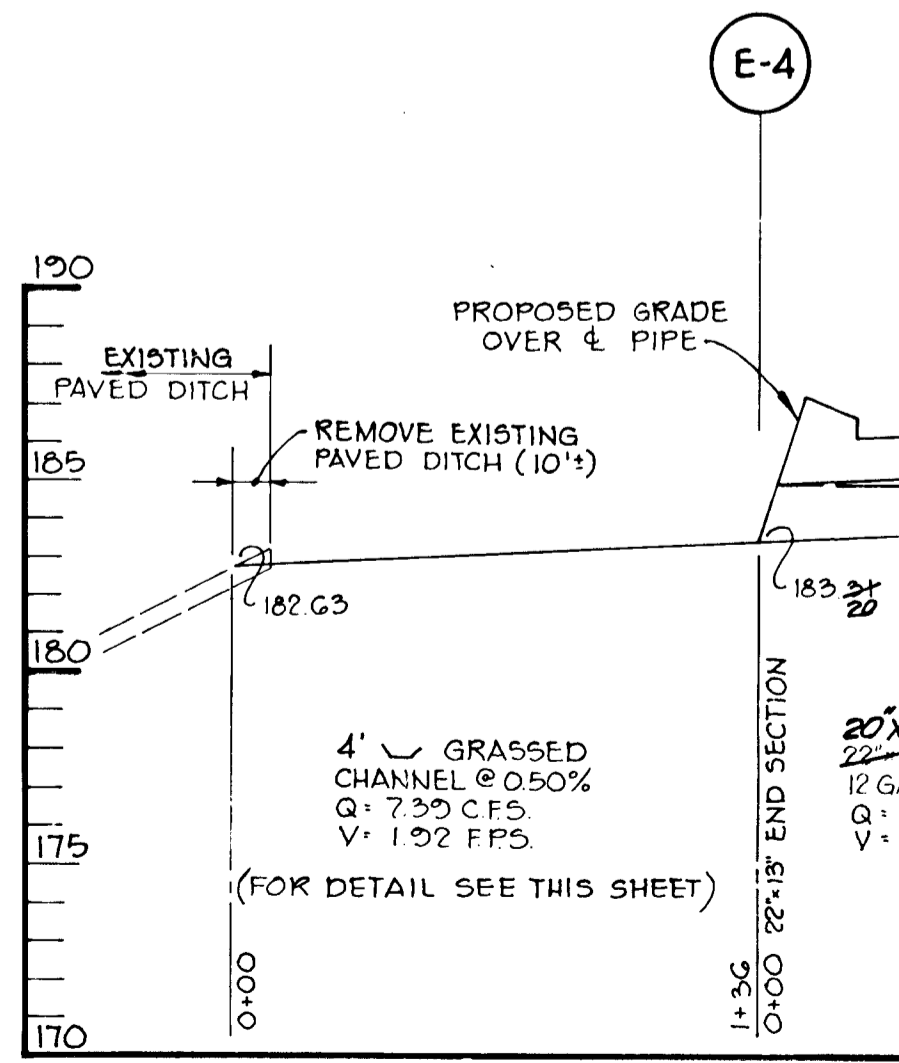
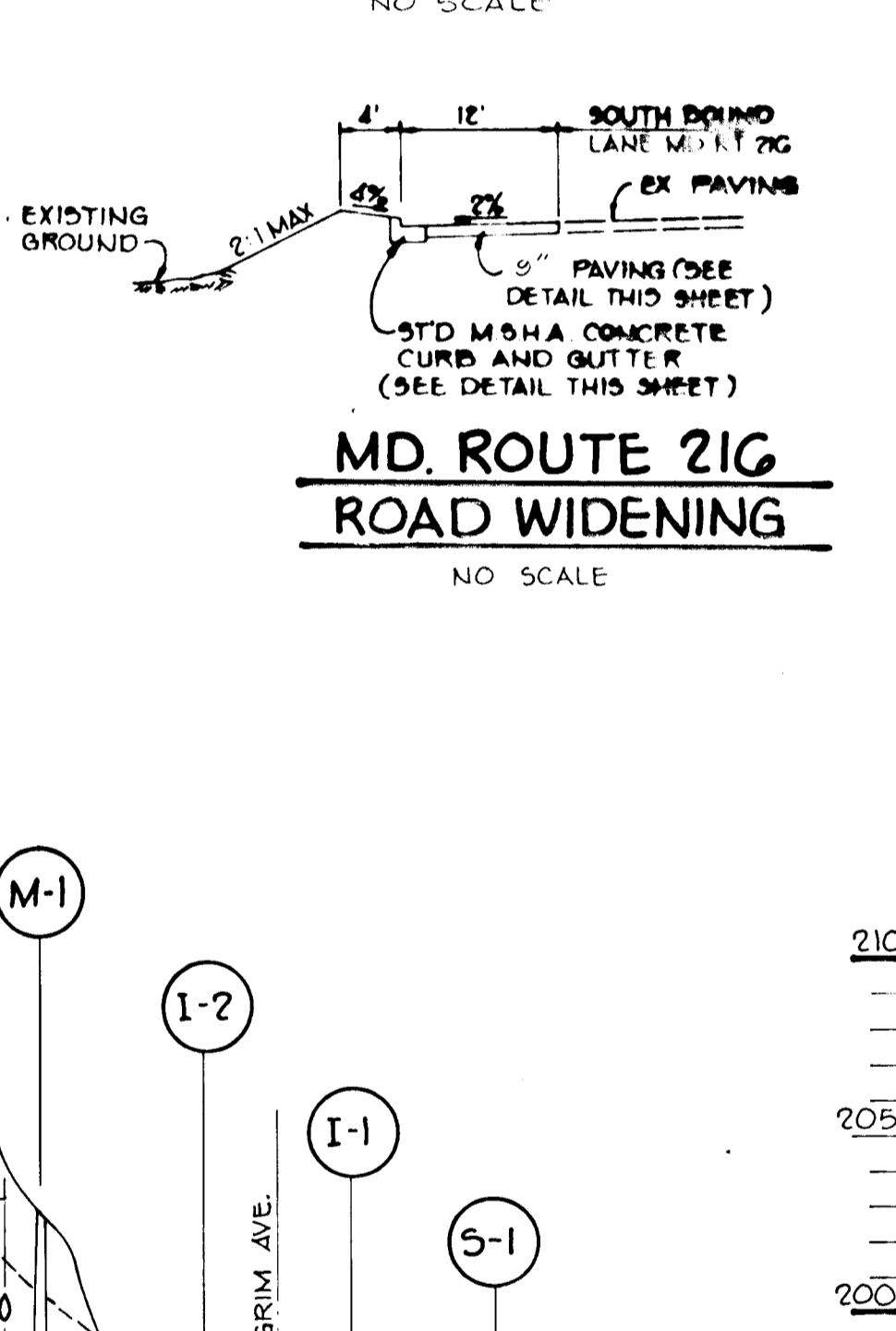
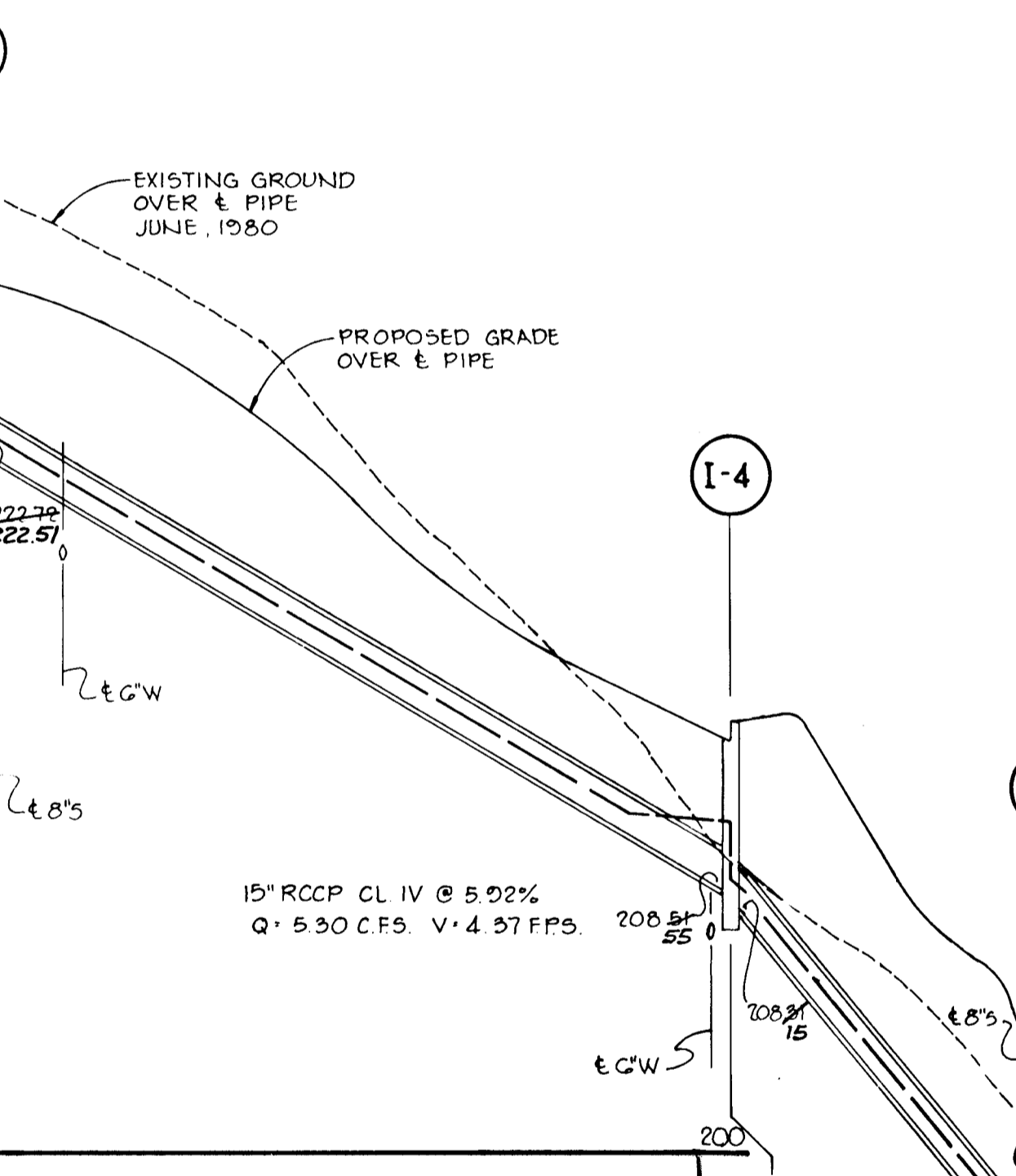
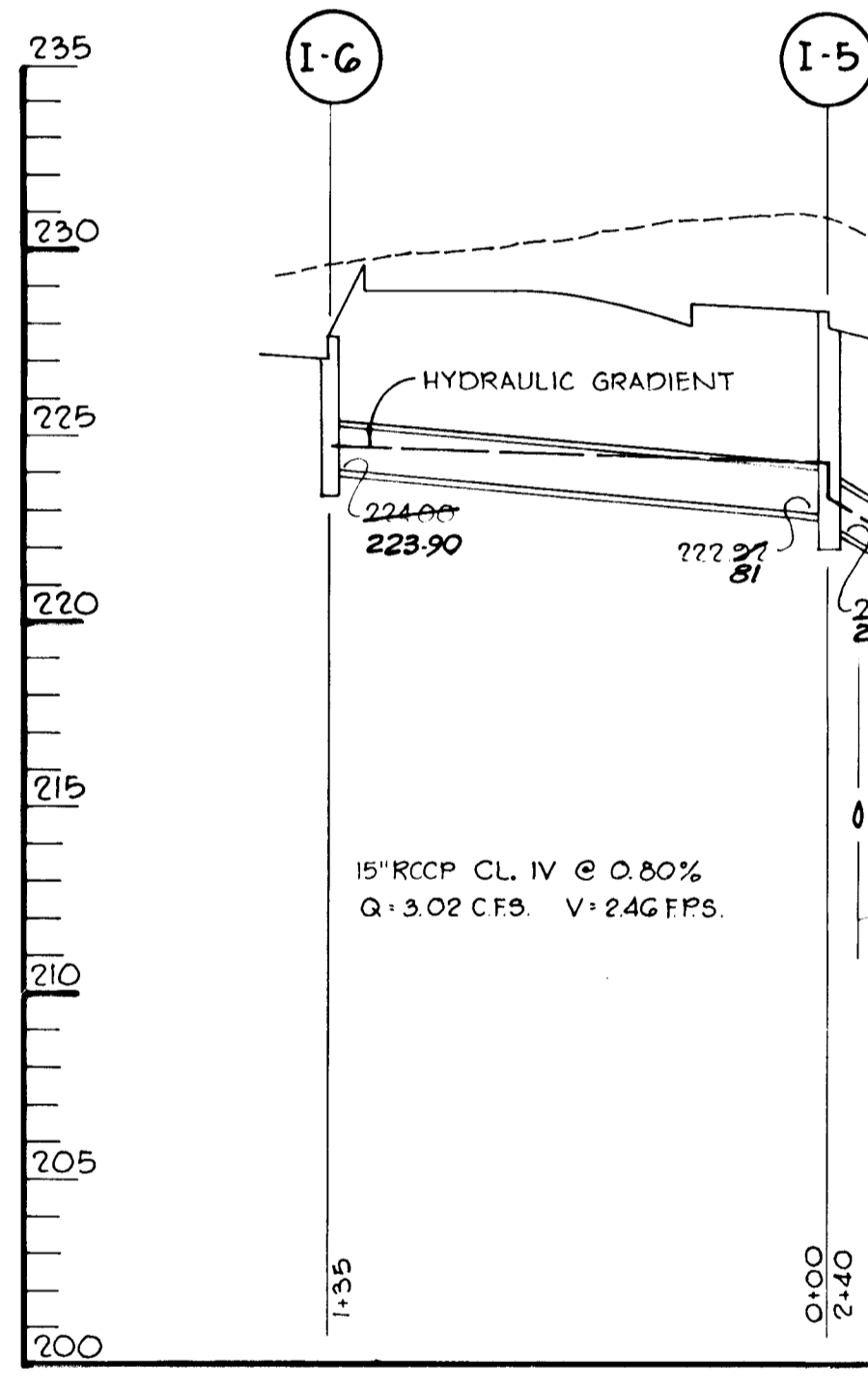
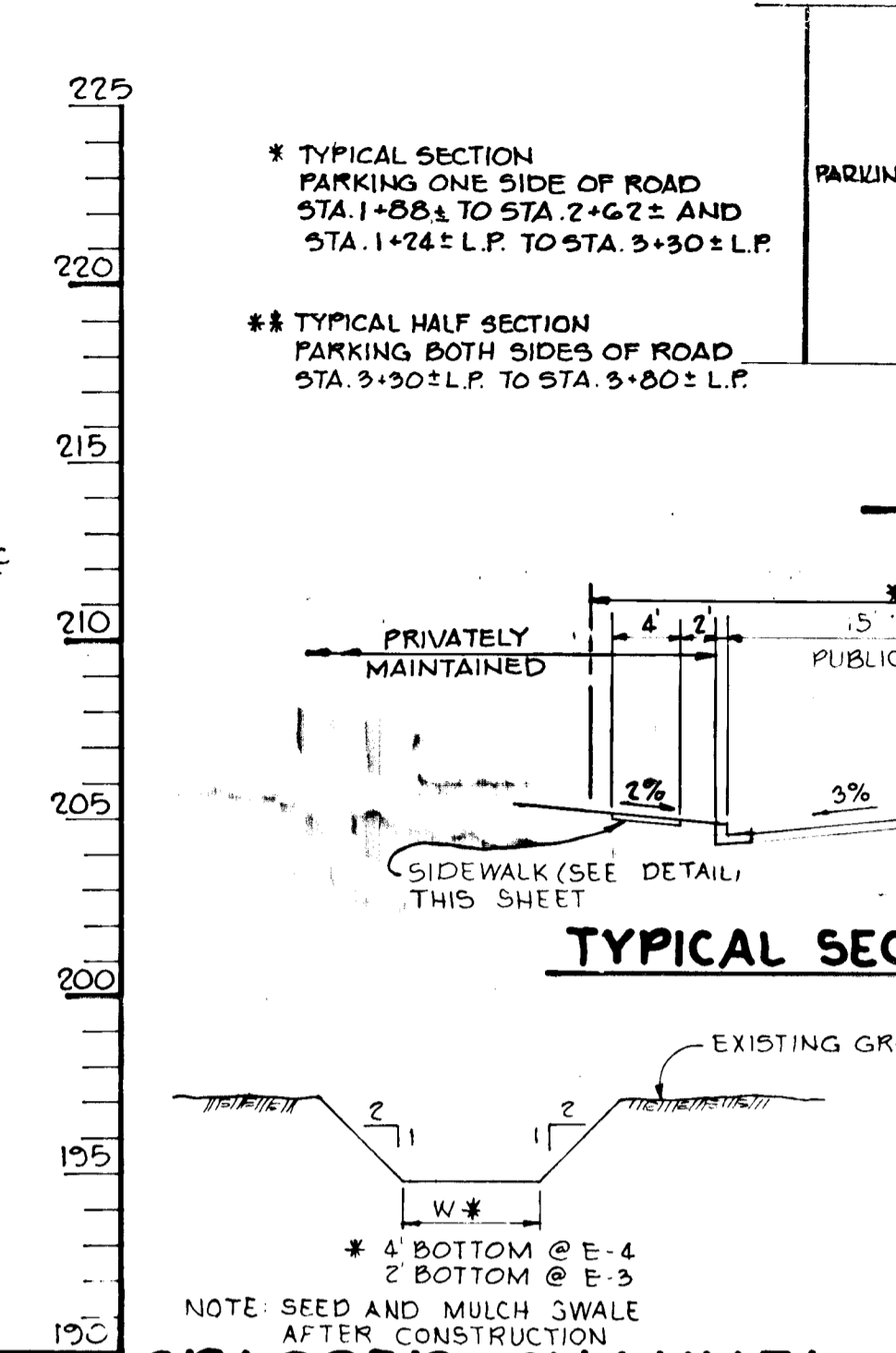
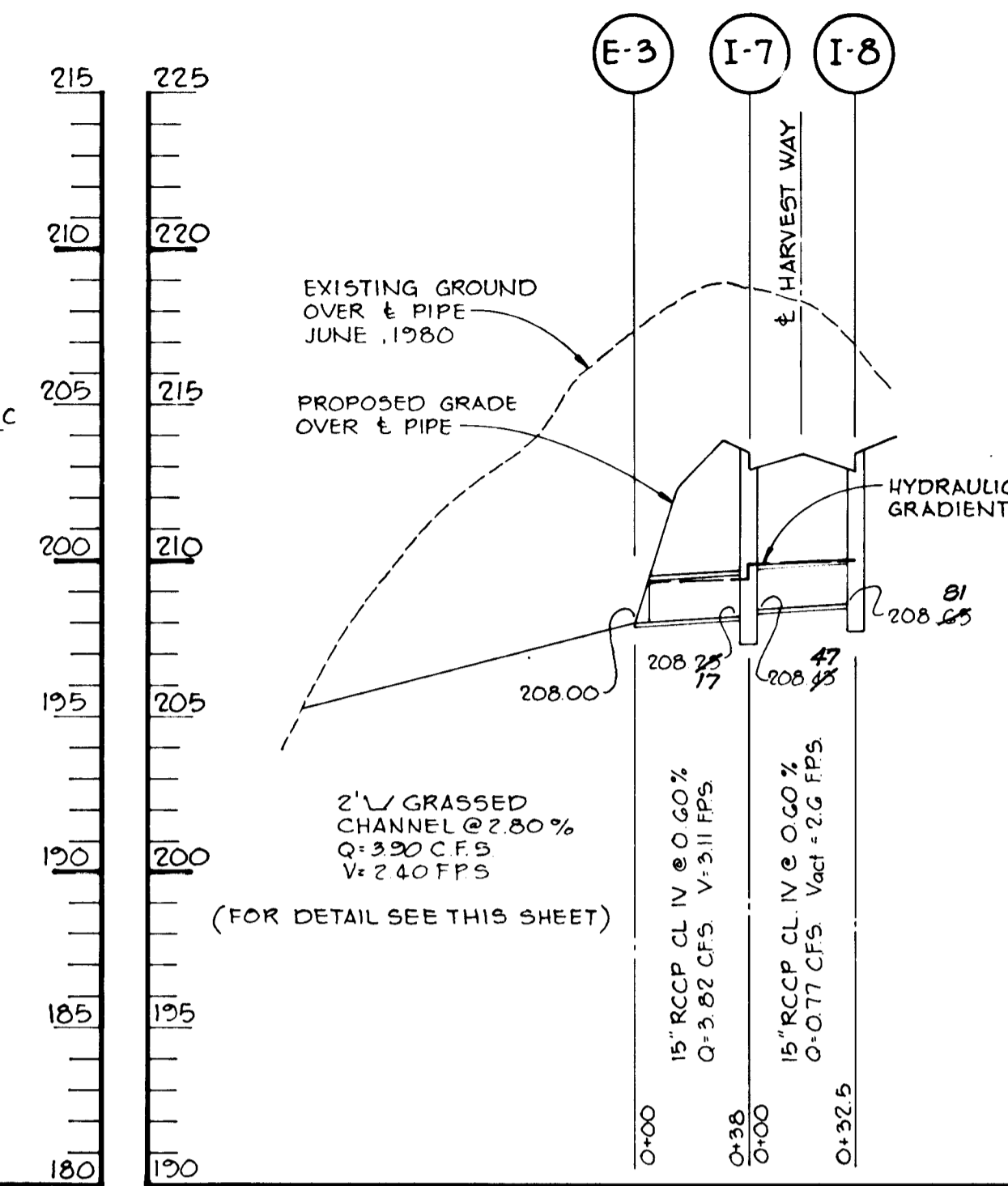
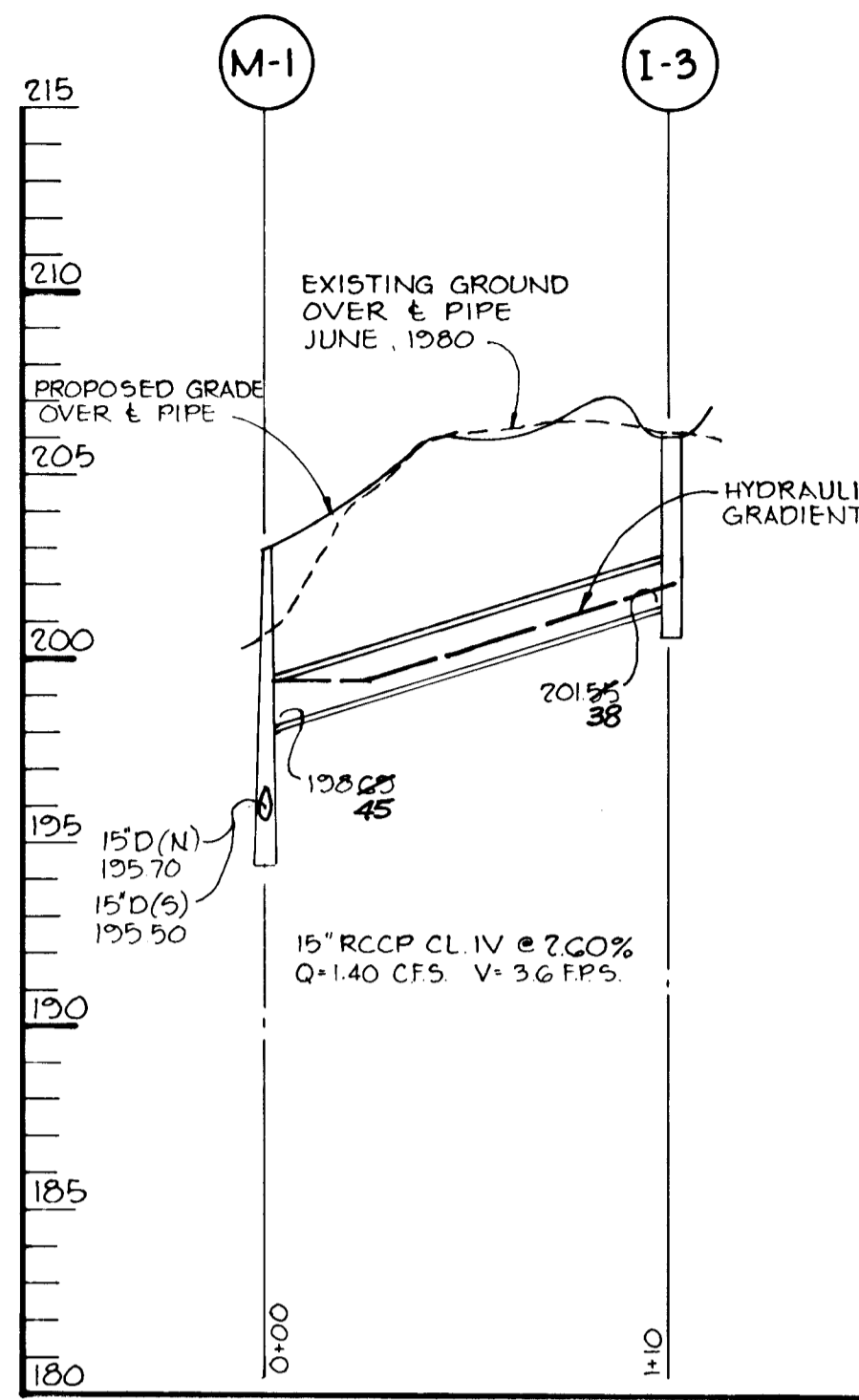
M.S.H.A. TYPE 'A' CURB AND GUTTER
No Scale



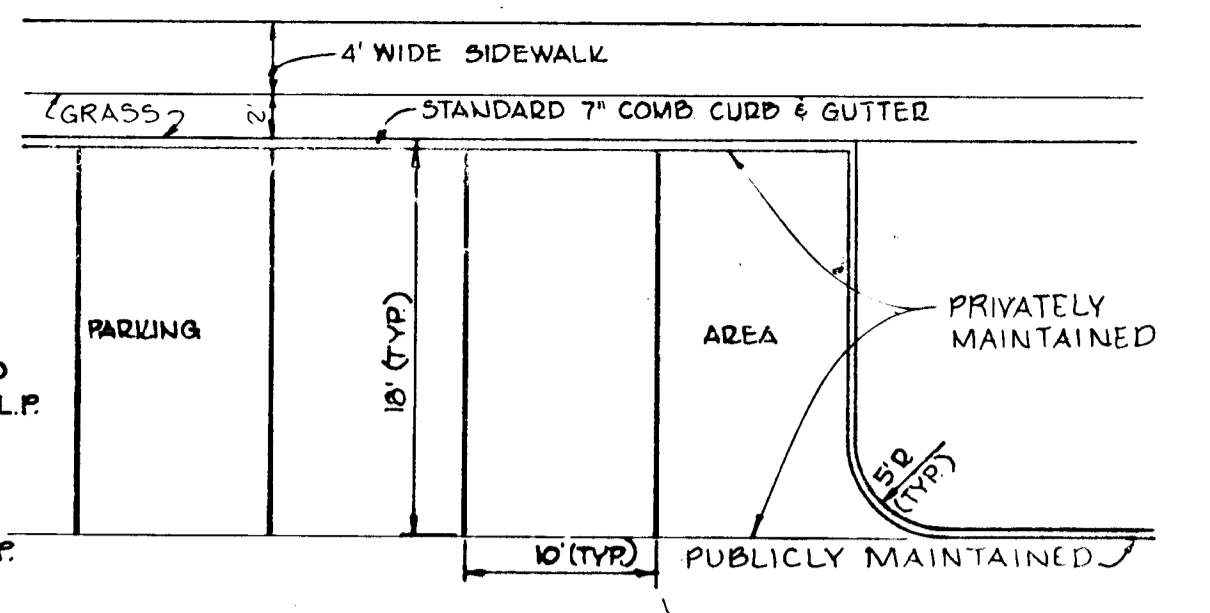
STANDARD 7" COMBINATION CURB AND GUTTER
No Scale



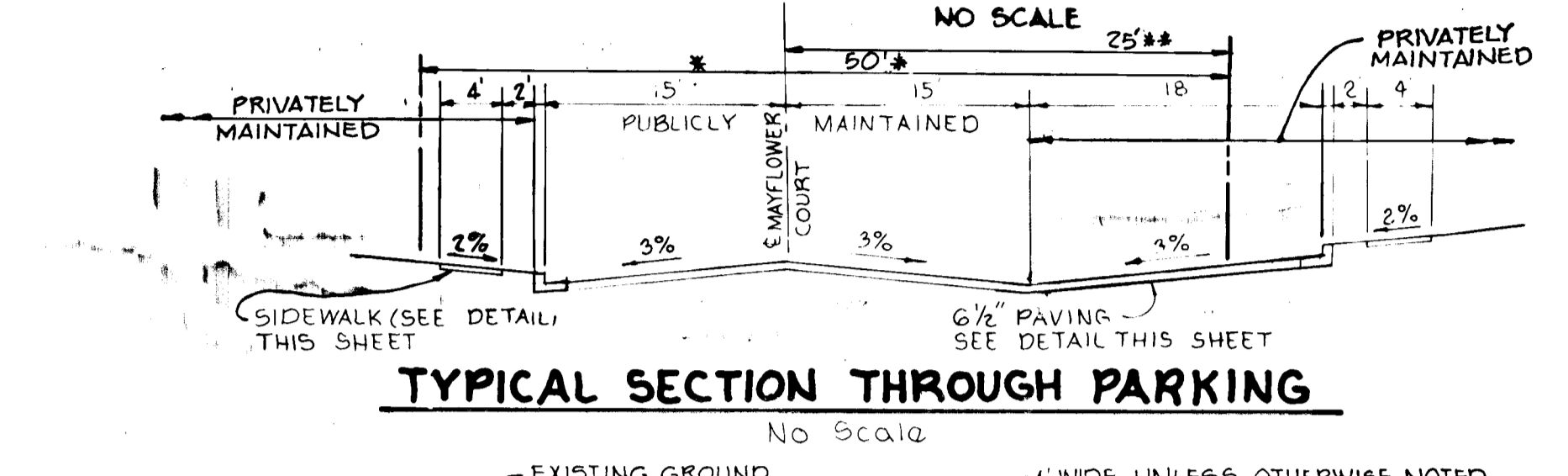
BITUMINOUS CURB
No Scale



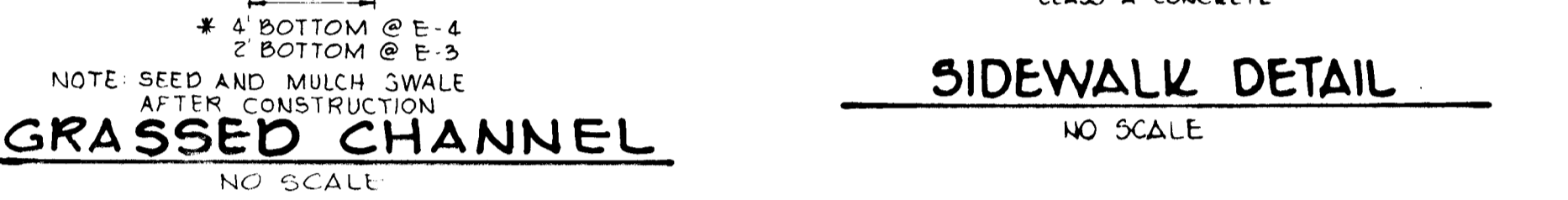
PROFILES
Scale: Horiz. 1"=50'
Vert. 1"=5'



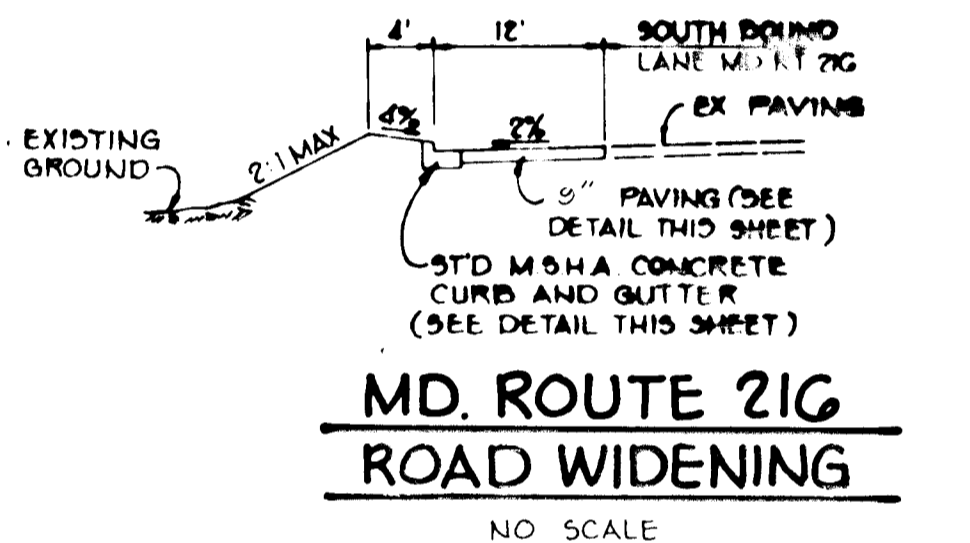
TYPICAL PARKING PLAN
NO SCALE



TYPICAL SECTION THROUGH PARKING
NO SCALE



SIDEWALK DETAIL
NO SCALE



MD. ROUTE 216 ROAD WIDENING
NO SCALE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING
Shull 1-14-81
CHIEF, DIVISION OF LAND DEVELOPMENT

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
Wadman 1-29-81
CHIEF, BUREAU OF ENGINEERING

1-6-81 REVISED AS PER H.C. COMMENTS DATED 12-31-80
DATE NO. REVISION

OWNER: EASTON ASSOCIATES
12400 CLARKSVILLE PIKE
CLARKSVILLE, MARYLAND 21029

DEVELOPER: JACYN DEVELOPMENTS GROUP
12400 CLARKSVILLE PIKE
CLARKSVILLE, MARYLAND 21029

PROJECT: **SETTLER'S LANDING**
SECTION 1, AREA 1 LOTS 1 THRU 49

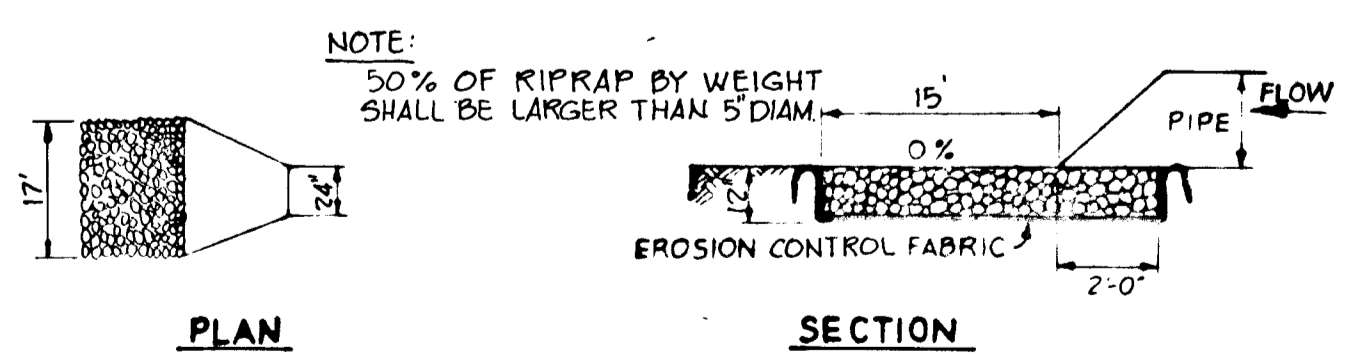
AREA: ELECTION DISTRICT NR1 HOWARD COUNTY, MARYLAND
TAX MAP NR50 PARCEL 34C

TITLE: **DETAILS AND STORM DRAIN PROFILES**

Riemer Tracy & Associates, Inc.
6655 Baltimore National Pike
Fitts City, Maryland 21043
(301) 461-2690
Land Planning, Design & Civil Engineering

1-7-81 DATE
DESIGNED BY: J.K.T.
DRAWN BY: R.J.W.
PROJECT NO.: 1880
DATE: 8-8-80
SCALE: AS SHOWN
DRAWING NO.: 4 OF 9

AS-BUILT 7-22-83
1-81-98
JANUARY 7, 1981



OUTLET PROTECTION DETAIL
No Scale

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

APPROVED: *William J. Rowe* 1-9-81
HOWARD S.C.D. DATE
F-81-18
PLAN NUMBER

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

Ray J. Rubin 1-9-81
U.S. SOIL CONSERVATION SERVICE 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."

James K. Tracy 8-7-80
ENGINEER, JAMES K. TRACY DATE

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."

Michael B. Gluck 8/7/80
DEVELOPER, MICHAEL B. GLUCK DATE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING

William C. Ryan 1-11-81
CHIEF, DIVISION OF LAND DEVELOPMENT DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

William C. Ryan 1-29-81
CHIEF, DIVISION OF LAND DEVELOPMENT DATE

1-6-81 REVISD AS PER HC COMMENTS DATED 12-31-80
DATE NO REVISION

OWNER: EASTON ASSOCIATES
12400 CLARKSVILLE PIKE
CLARKSVILLE, MARYLAND 21029

DEVELOPER: JACYN DEVELOPMENT GROUP
12400 CLARKSVILLE PIKE
CLARKSVILLE, MARYLAND 21029

PROJECT: **SETTLER'S LANDING**
SECTION 1, AREA 1 LOTS 1 THRU 49

AREA: ELECTION DISTRICT #6 HOWARD COUNTY, MARYLAND
TAX MAP #50 PARCEL 346

TITLE: DRAINAGE AREA MAP

Rierner, Tracy & Associates, Inc.
8659 Baltimore National Pike
Ellicott City, Maryland 21041
(301) 461-2690
Land Planning, Design & Civil Engineering

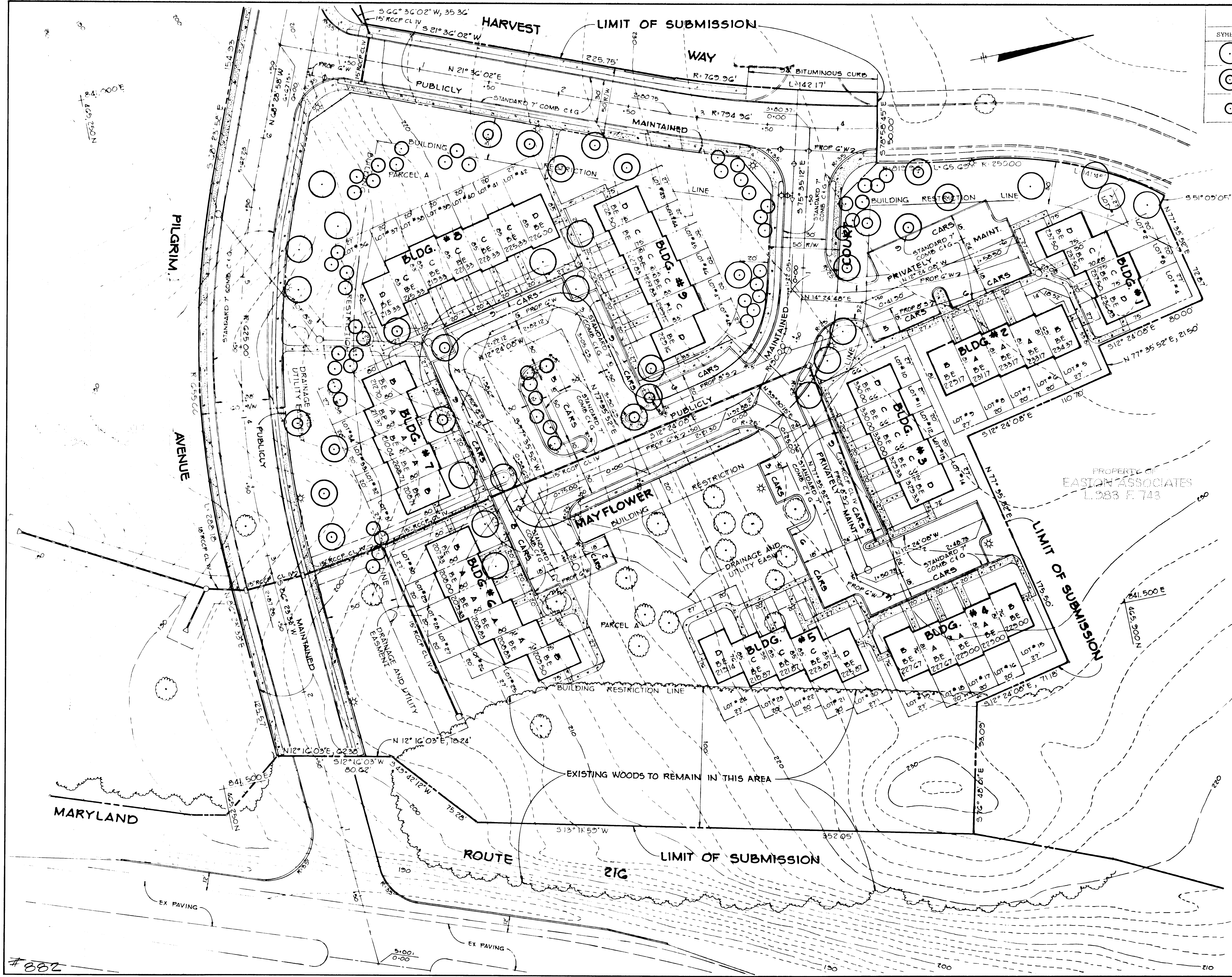
1-7-81
DATE

DESIGNED BY: LJD
DRAWN BY: LJD
PROJECT NO: 1880
DATE: 8-8-80
SCALE: 1"=50'
DRAWING NO: 5 OF 2

James K. Tracy
PROFESSIONAL ENGR. NO. 1716

MARYLAND SURVEYING CO., INC.

#882



PLANT LIST				
SYMBOL	TYPE	SIZE	QUANTITY	
○	ACER saccharum Sugar Maple	2-2 1/2" Cal. B&B 12'-14' Hgt.	18	
⊙	QUERCUS palustris Pin Oak	2-2 1/2" Cal. B&B 12'-14' Hgt.	71	
○	PINUS nigra Austrian Pines	6'-7' B&B	53	

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING.

William M. ... 1-14-81
 CHIEF, DIVISION OF LAND DEVELOPMENT DATE

APPROVED:

HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

Michael ... 1-22-81
 CHIEF, BUREAU OF ENGINEERING DATE

1-6-81 REVISOR AS PER H.C. COMMENTS DATED 12-31-80

OWNER: EASTON ASSOCIATES
 12400 CLARKSVILLE PIKE
 CLARKSVILLE, MARYLAND 21029

DEVELOPER: JACYN DEVELOPMENT GROUP
 12400 CLARKSVILLE PIKE
 CLARKSVILLE, MARYLAND 21029

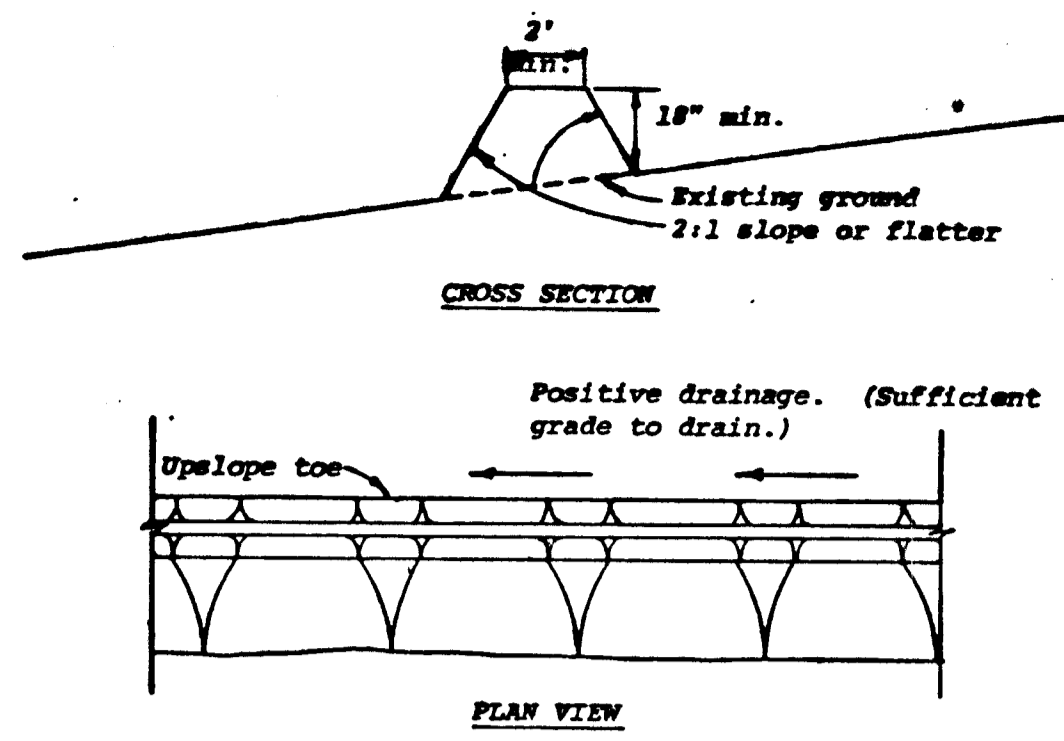
PROJECT: **SETTLERS LANDING**
 SECTION 1, AREA 1 LOTS 1 THRU 49

AREA: ELECTION DISTRICT 116 HOWARD COUNTY, MARYLAND
 TAX MAP #50 PARCEL 346

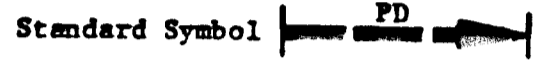
TITLE: PLANTING PLAN

TR Riemer, Tracy & Associates, Inc.
 8659 Baltimore National Pike
 Ellicott City, Maryland 21043
 (301) 461-2690
 Land Planning, Design & Civil Engineering

11-21-80
 STATE OF MARYLAND
 REGISTERED LANDSCAPE ARCHITECT
 NO. 201
Michael ...
 DESIGNED BY: LJD
 DRAWN BY: TES
 PROJECT NO: 1860
 DATE: 8-8-80
 SCALE: 1"=50'
 DRAWING NO. 6 OF 9

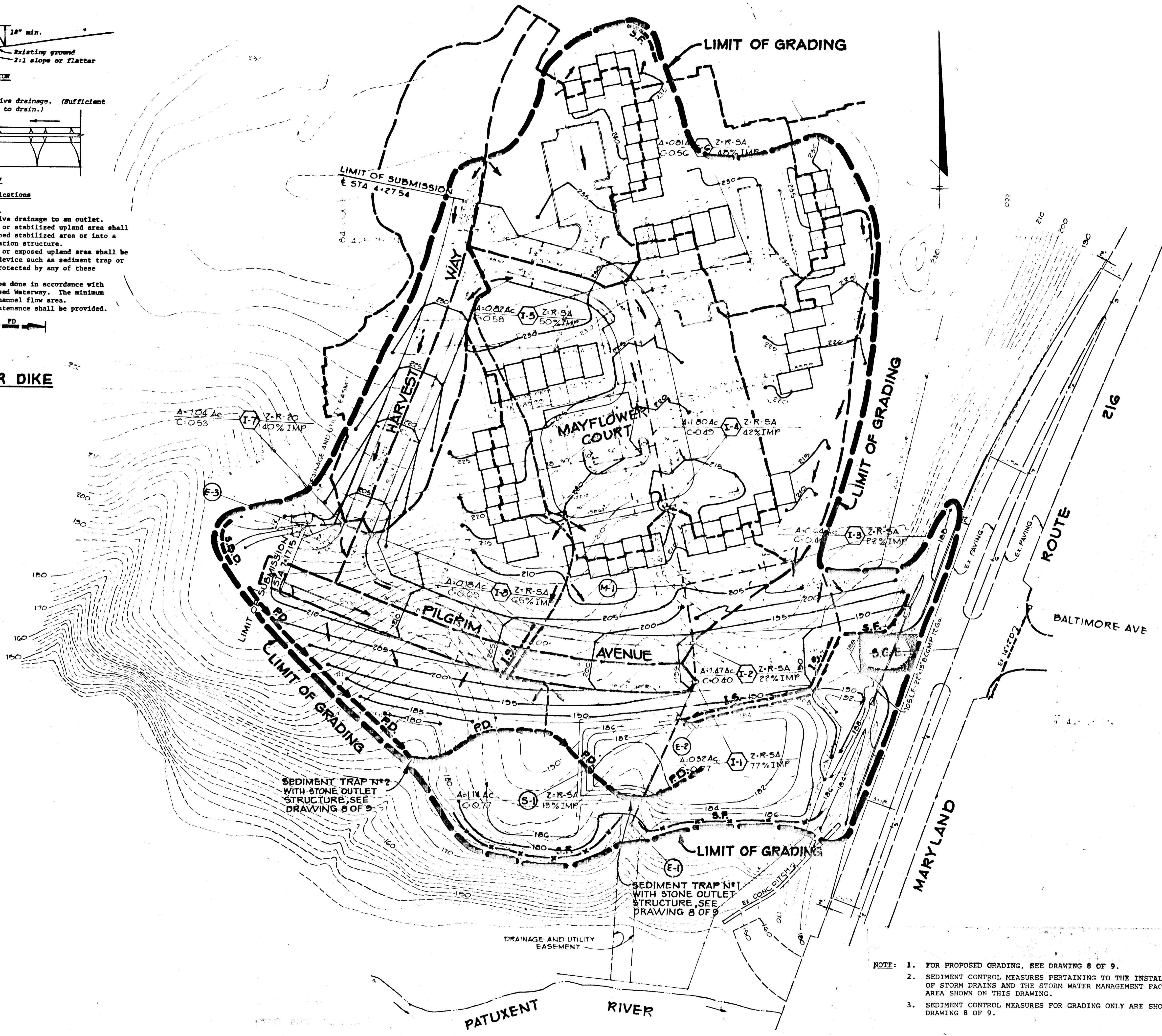


- Construction Specifications**
- All dikes shall be machine compacted.
 - All perimeter dikes shall have positive drainage to an outlet.
 - A. Diverted runoff from a protected or stabilized upland area shall outlet directly onto an undisturbed stabilized area or into a level spreader or grade stabilization structure.
B. Diverted runoff from a disturbed or exposed upland area shall be conveyed to a sediment trapping device such as sediment trap or a sediment basin or to an area protected by any of these practices.
 - Stabilization, when required, shall be done in accordance with Standard and Specifications for Grassed Waterway. The minimum area to be stabilized shall be the channel flow area.
 - Periodic inspection and required maintenance shall be provided.



* Drainage area less than 5 acres

PERIMETER DIKE
No Scale



- NOTE:**
- FOR PROPOSED GRADING, SEE DRAWING 8 OF 9.
 - SEDIMENT CONTROL MEASURES PERTAINING TO THE INSTALLATION OF STORM DRAINS AND THE STORM WATER MANAGEMENT FACILITY AREA SHOWN ON THIS DRAWING.
 - SEDIMENT CONTROL MEASURES FOR GRADING ONLY ARE SHOWN ON DRAWING 8 OF 9.

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

APPROVED *William J. Rowe* 1-9-81 DATE
HOWARD S.C.D. PLAN NUMBER F-81-18

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

Ray Becken 1-9-81 DATE
HOWARD S.C.D. SERVICE

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."

James K. Jung 8-7-80 DATE
ENGINEER

BY THE DEVELOPER:

"I CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND THAT FOR EROSION AND SEDIMENT CONTROL AND THAT I WILL PERFORM PERIODIC INSPECTION IN ACCORDANCE WITH THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY."

Michael B. Smith 8/7/80 DATE
DEVELOPER, MICHAEL B. SMITH

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING

William M. M. M. 1-14-81 DATE
CHIEF, DIVISION OF LAND DEVELOPMENT

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

James E. R... 1-23-81 DATE
CHIEF, BUREAU OF ENGINEERING

1-6-81 REVISION AS PER H.C. COMMENTS DATED 12-3-80
DATE NO. REVISION

OWNER: EASTON ASSOCIATES
12400 CLARKSVILLE PIKE
CLARKSVILLE, MARYLAND 21029

DEVELOPER: JACYN DEVELOPMENT GROUP
12400 CLARKSVILLE PIKE
CLARKSVILLE, MARYLAND 21029

PROJECT: SETTLERS LANDING
SECTION I, AREA I, LOTS 1 THRU 49

AREA: ELECTION DISTRICT #6 HOWARD COUNTY, MARYLAND
TAX MAP #50 PARCEL 84G

TITLE: SEDIMENT CONTROL PLAN

TR Riemer, Tracy & Associates, Inc.
8650 Baltimore National Pike
Ellicott City, Maryland 21043
(301) 481-2690
Land Planning, Design & Civil Engineering

1-7-81 DATE
STATE OF MARYLAND PROFESSIONAL ENGINEER

DESIGNED BY L.J.D.
DRAWN BY L.J.D.
PROJECT NO 1880
DATE 8-8-80
SCALE 1"=50'
DRAWING NO 7 OF 9

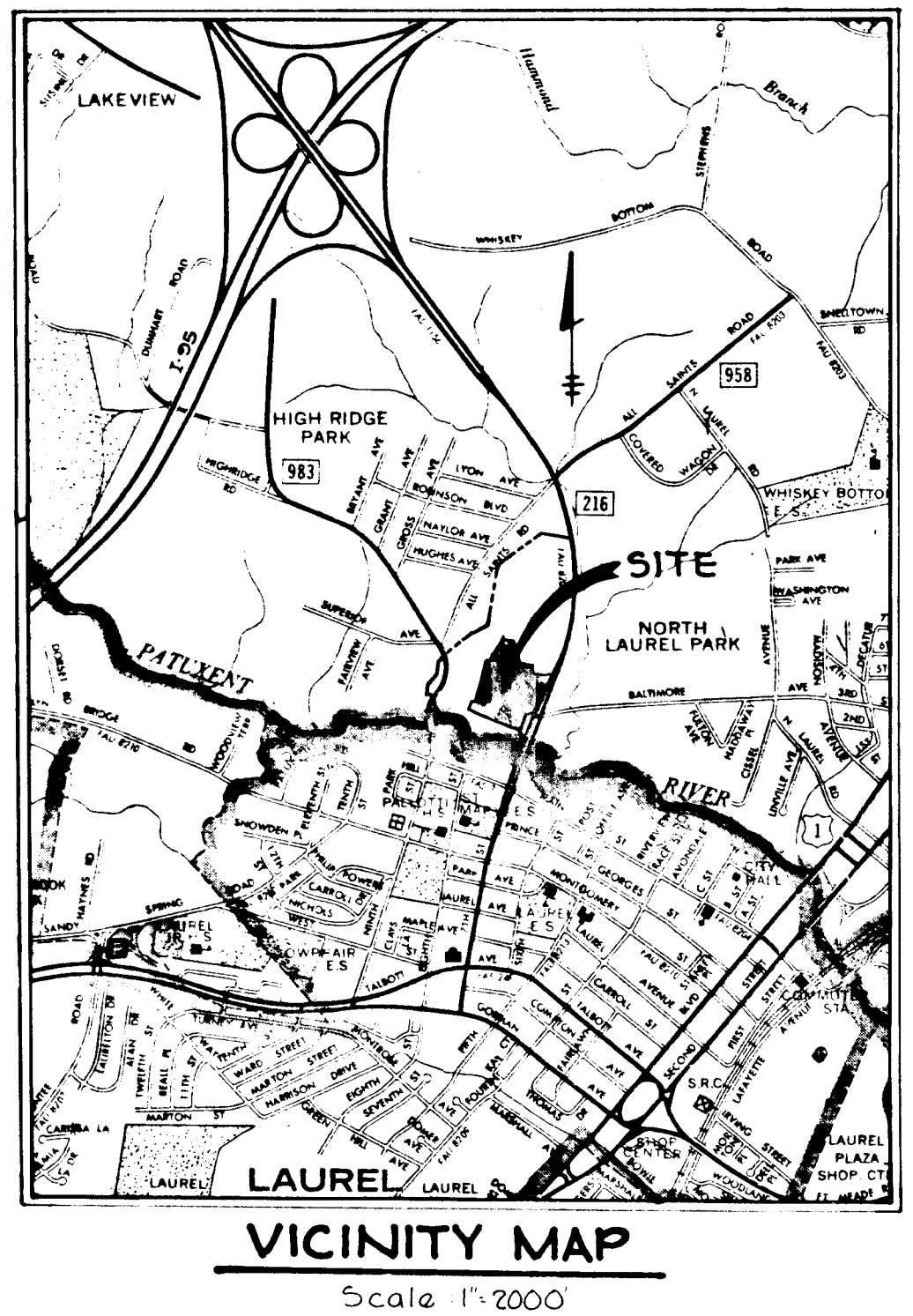
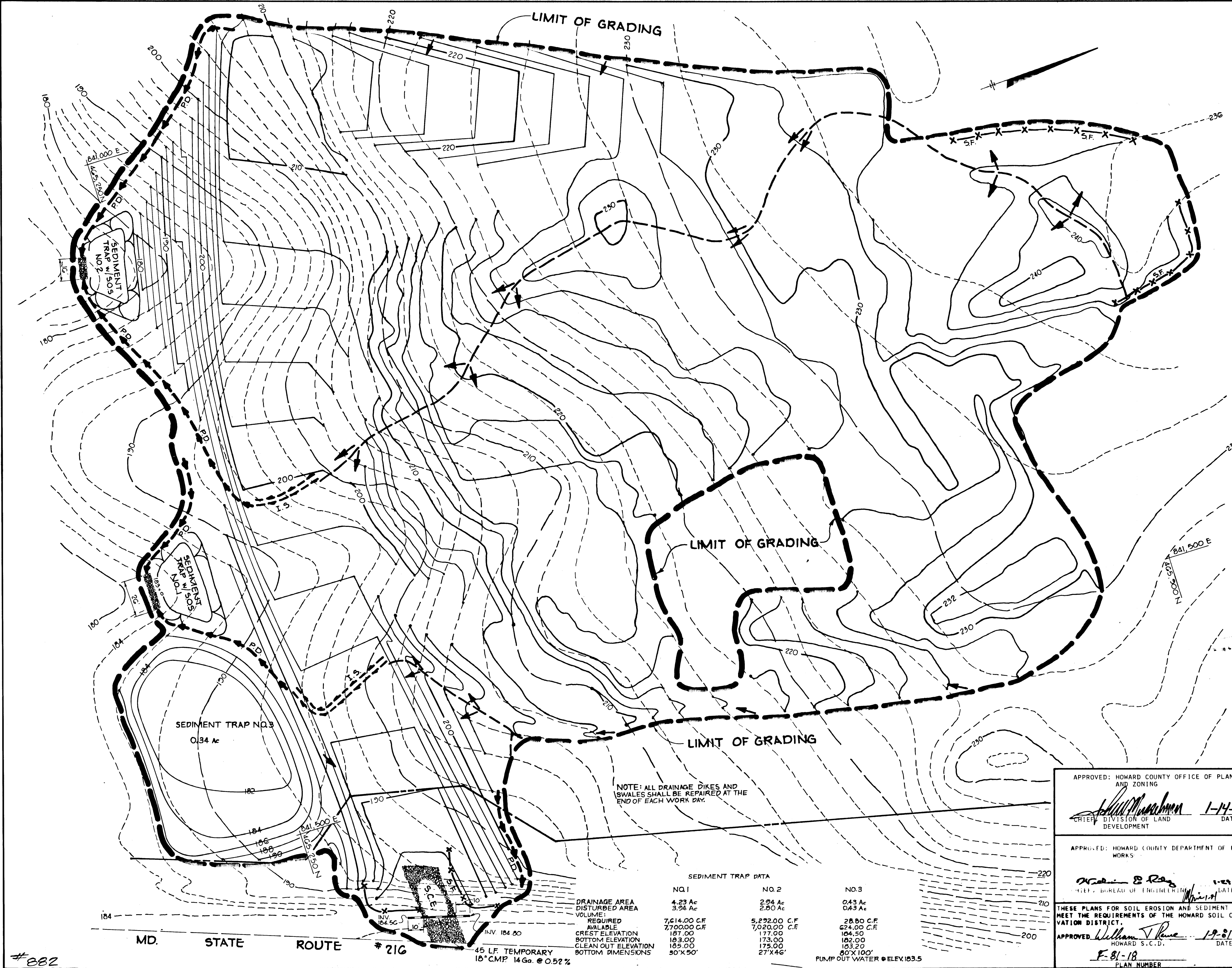
James K. Jung PROFESSIONAL ENGR NO. 10666

F-81-18

AS-BUILT 7-22-83

JANUARY 7, 1981

#882



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."
Michael B. Glick 8/7/80
 DEVELOPER, MICHAEL B. GLICK 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."
James K. Tracy 8-7-80
 ENGINEER, JAMES K. TRACY DATE

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SOIL EROSION AND SEDIMENT CONTROL.
Douglas Beckner 1-9-81
 U.S. SOIL CONSERVATION SERVICE DATE

1-6-81 REVISAS PER H.C. COMMENTS DATED 12-31-80
 DATE NO. REVISION
 OWNER: EASTON ASSOCIATES
 12400 CLARKSVILLE PIKE
 CLARKSVILLE, MARYLAND 21029
 DEVELOPER: JACYN DEVELOPMENT GROUP
 12400 CLARKSVILLE PIKE
 CLARKSVILLE, MARYLAND 21029
 PROJECT: SETTLER'S LANDING
 SECTION 1, AREA 1 LOTS 1 THRU 49

AREA ELECTION DISTRICT N#2 HOWARD COUNTY, MARYLAND
 TAX MAP N#50 PARCEL 34G
 TITLE: SUPPLEMENTAL SEDIMENT CONTROL PLAN
Riemer Tracy & Associates, Inc.
 8659 Baltimore National Pike
 Ellicott City, Maryland 21043
 (301) 461-2690
 Land Planning, Design & Civil Engineering

1-7-81 DATE
 DESIGNED BY: J.K.T.
 DRAWN BY: DAM, L.S.T.
 PROJECT NO: 1880
 DATE: 8-8-80
 SCALE: 1"=30'
 DRAWING NO. 8 OF 9
James K. Tracy
 PROFESSIONAL ENGR. NO. 926
 F-81-18
 JANUARY 7, 1981

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING
William M. ... 1-14-81
 CHIEF, DIVISION OF LAND DEVELOPMENT DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
William B. ... 1-23-81
 CHIEF, BUREAU OF ENGINEERING DATE

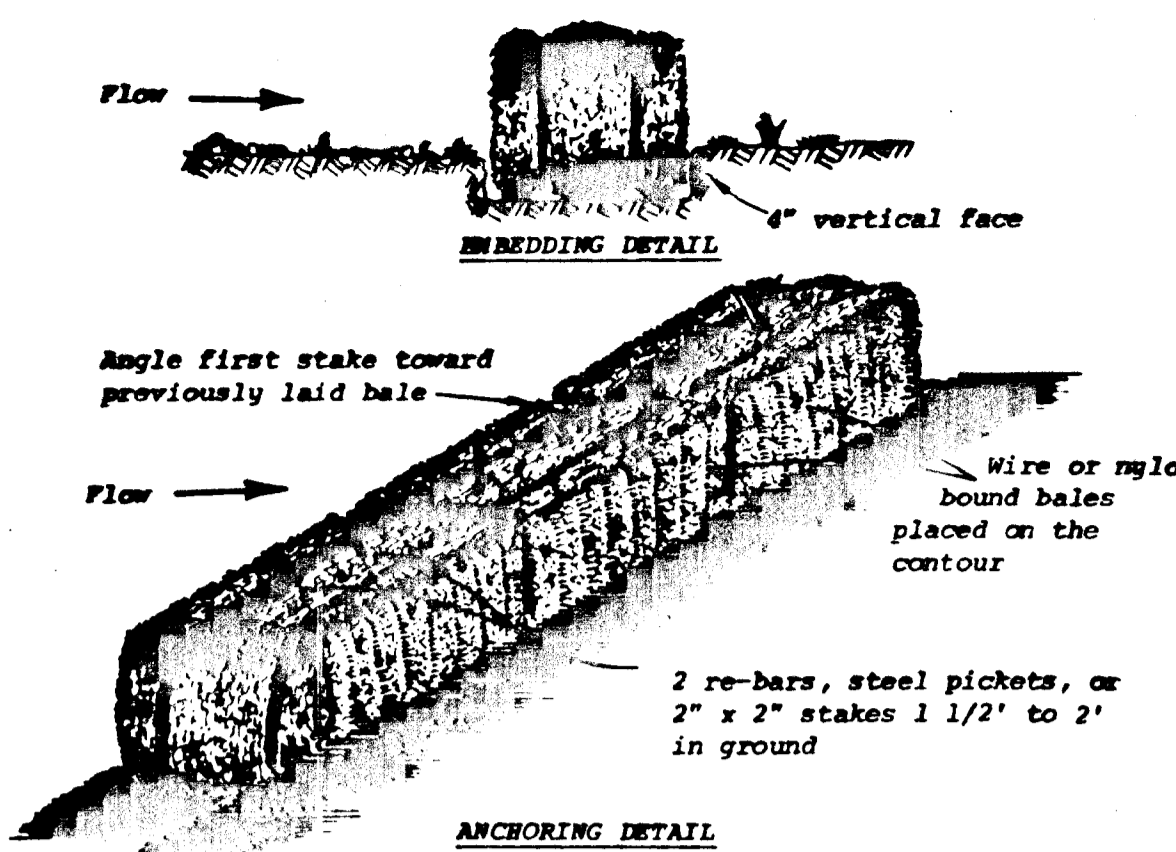
THESE PLANS FOR SOIL EROSION AND SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.
 APPROVED: *William J. ...* 1-9-81
 HOWARD S.C.D. DATE
 F-81-18
 PLAN NUMBER

NOTE: ALL DRAINAGE DIKES AND SWALES SHALL BE REPAIRED AT THE END OF EACH WORK DAY.

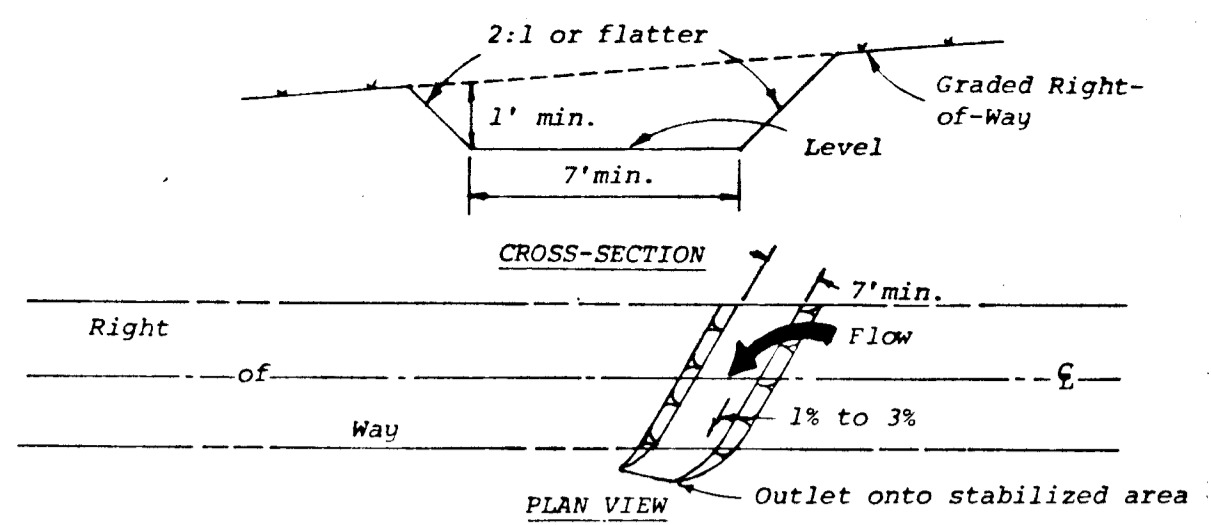
DRAINAGE AREA DISTURBED AREA VOLUME:	SEDIMENT TRAP DATA		
	NO.1	NO.2	NO.3
REQUIRED AVAILABLE	4.23 Ac	2.94 Ac	0.43 Ac
CREST ELEVATION	3.94 Ac	2.80 Ac	0.43 Ac
BOTTOM ELEVATION	7,614.00 C.F.	5,292.00 C.F.	28.80 C.F.
CLEAN OUT ELEVATION	187.00	7,020.00 C.F.	624.00 C.F.
BOTTOM DIMENSIONS	183.00	173.00	184.50
	185.00	175.00	182.00
		183.20	80'X100'
		27'X46'	PUMP OUT WATER @ ELEV. 183.5

#882

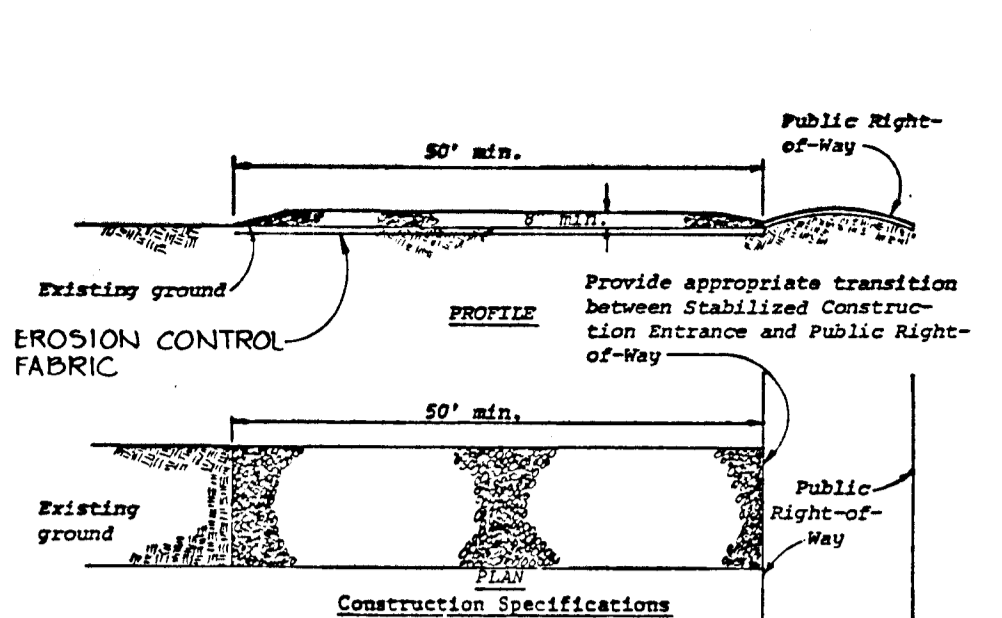
AS-BUILT 7-22-83



- Construction Specifications**
- Bales shall be placed in a row with ends tightly abutting the adjacent bales.
 - Each bale shall be embedded in the soil a minimum of 4".
 - Bales shall be securely anchored in place by stakes or re-bars driven through the bales. The first stake in each bale shall be angled toward previously laid bale to force bales together.
 - Inspection shall be frequent and repair or replacement shall be made promptly as needed.
 - Bales shall be removed when they have served their usefulness so as not to block or impede storm flow or drainage.

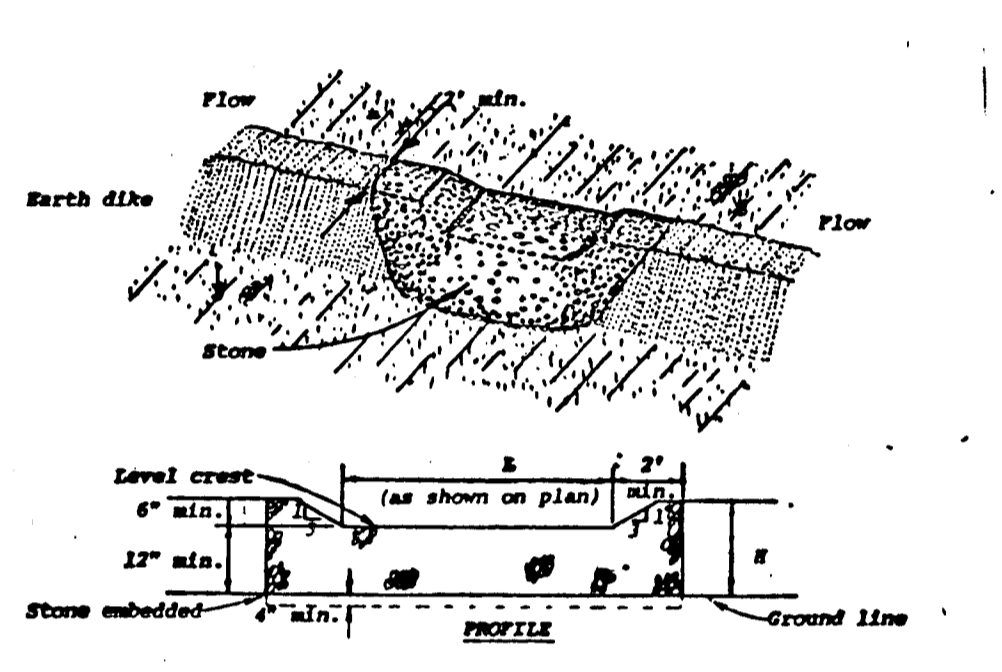


- Construction Specifications**
- All trees, brush, stumps, obstructions, and other objectionable material shall be removed and disposed of so as not to interfere with the proper functioning of the swale.
 - The swale shall be excavated or shaped to line, grade, and cross section as required to meet the criteria specified herein and be free of bank projections or other irregularities which will impede normal flow.
 - Fills shall be compacted as needed to prevent unequal settlement that would cause damage in the complete swale.
 - All earth removed and not needed in construction shall be spread or disposed of so that it will not interfere with the functioning of the swale.
 - Interceptor swales shall have a minimum grade of one percent and the bottom shall be level.
 - An interceptor swale 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.
 - The on-site location may need to be adjusted to meet field conditions in order to utilize the most suitable outlet.
 - Stabilization shall be: (1) in accordance with the Standard and Specifications for Grassed Waterway; or (2) by lining the flow area with stone that meets MSHA size No. 2 or AASHTO M43 size No. 2 or 24 in a layer at least 3 inches in thickness and pressed into the soil. The lining shall extend across the bottom and up both sides of the channel a height of at least 8 inches vertically above the bottom.
 - Periodic inspection and required maintenance shall be provided.



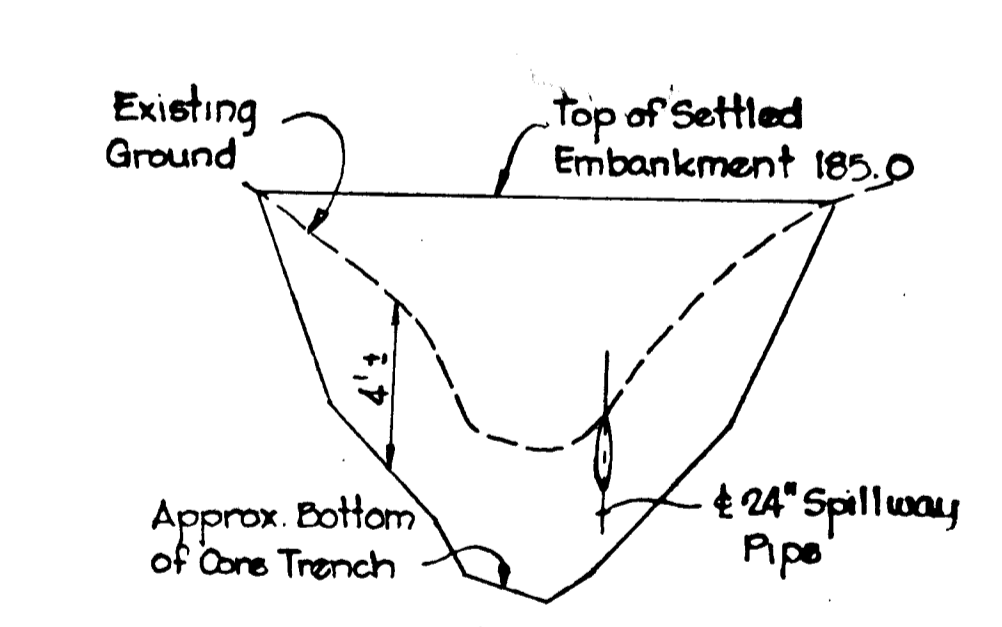
- Construction Specifications**
- Stone size - Use MSHA size No. 2 (2-1/2" to 1") or AASHTO designation M43, size No. 2 (2-1/2" to 1-1/2"). Use crushed stone.
 - Length - As effective, but not less than 50 feet.
 - Thickness - Not less than eight (8) inches.
 - Width - Not less than full width of all points of ingress or egress.
 - 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.
 - Maintenance - The entrance shall be maintained in a condition which will prevent tracking or flowing of sediment onto public right-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, washed or tracked onto public right-of-way must be removed immediately.

STABILIZED CONSTRUCTION ENTRANCE
No Scale

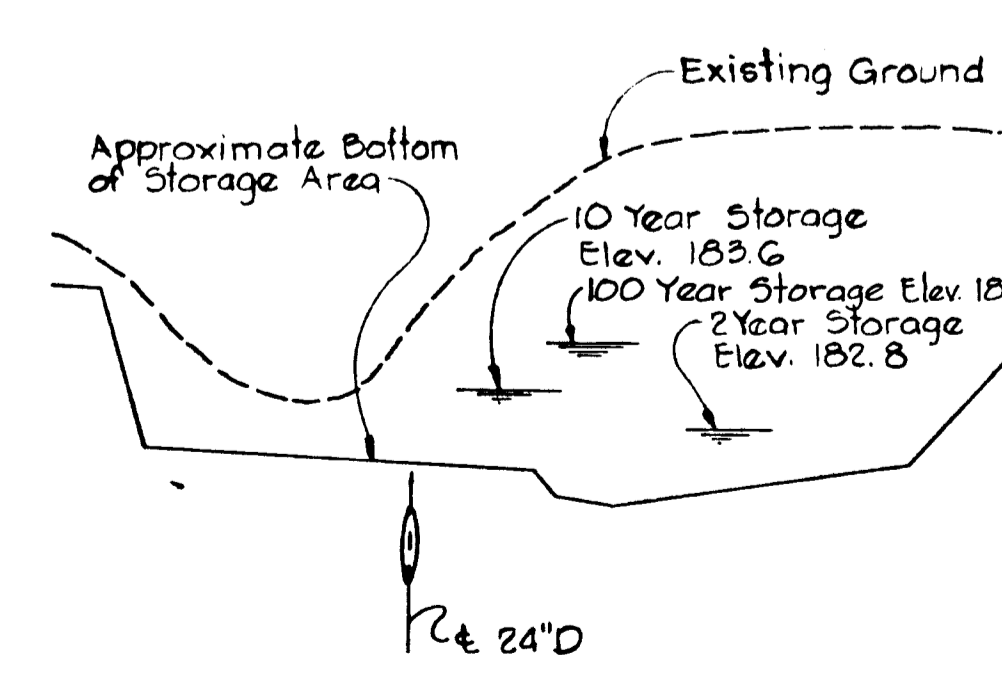


- Construction Specifications**
- The stone shall be crushed stone. Gravel may be used if crushed stone is not available. The stone shall meet MSHA size No. 2 or AASHTO designation M43 size No. 2 or 24.
 - The crest of the stone dike shall be at least six inches lower than the lowest elevation of the top of the earth dike and shall be level.
 - The stone outlet structure shall be embedded into the soil a minimum of four inches.
 - The minimum length, in feet, of the crest of the stone outlet structure shall be equal to six times the number of acres of contributing drainage area.
 - The stone outlet structure shall be inspected after each rain, and the stone shall be replaced when the structure ceases to function as intended due to silt accumulation among the stone, washout, construction traffic damage, etc.

STONE OUTLET STRUCTURE
No Scale



EMBANKMENT SECTION
NO SCALE



STORAGE AREA SECTION
NO SCALE

SEDIMENT CONTROL CONSTRUCTION NOTES
GENERAL NOTES

- 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 (922-2076).
- ALL SEDIMENT CONTROL STRUCTURES WILL BE INSTALLED IN ACCORDANCE WITH "THE STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL IN DEVELOPING AREAS" AS PREPARED BY THE U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE.
- SITE GRADING WILL BEGIN ONLY AFTER ALL PERIMETER SEDIMENT CONTROL MEASURES HAVE BEEN INSTALLED AND ARE IN A FUNCTIONING CONDITION.
- ALL DISTURBED AREAS ARE TO BE DRESSED AND STABILIZED ACCORDING TO THE TEMPORARY OR PERMANENT SEEDING SCHEDULES AS SOON AS PREFER WEATHER CONDITIONS EXIST FOR THE ESTABLISHMENT OF A PERMANENT VEGETATIVE COVER.
- SEDIMENT WILL BE REMOVED FROM TRAPS WHEN THE DEPTH REACHES THE CLEAN OUT ELEVATION SHOWN ON THE PLANS.
- FERTILIZER AND LIME RATES MAY BE CHANGED THROUGH AUTHORIZATION BY THE HOWARD SOIL CONSERVATION DISTRICT IF SOIL TESTS DETERMINE A REDUCTION IN THE SPECIFIED RATES IS JUSTIFIED.
- 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.
- REFERENCES CALLED FOR ON THE SEDIMENT CONTROL CONSTRUCTION PLAN AND DETAILS ARE MADE TO "THE STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL IN DEVELOPING AREAS".
- SEDIMENT CONTROL WILL BE INSTALLED BEFORE CLEARING AND GRADING REMAINDER OF SITE.

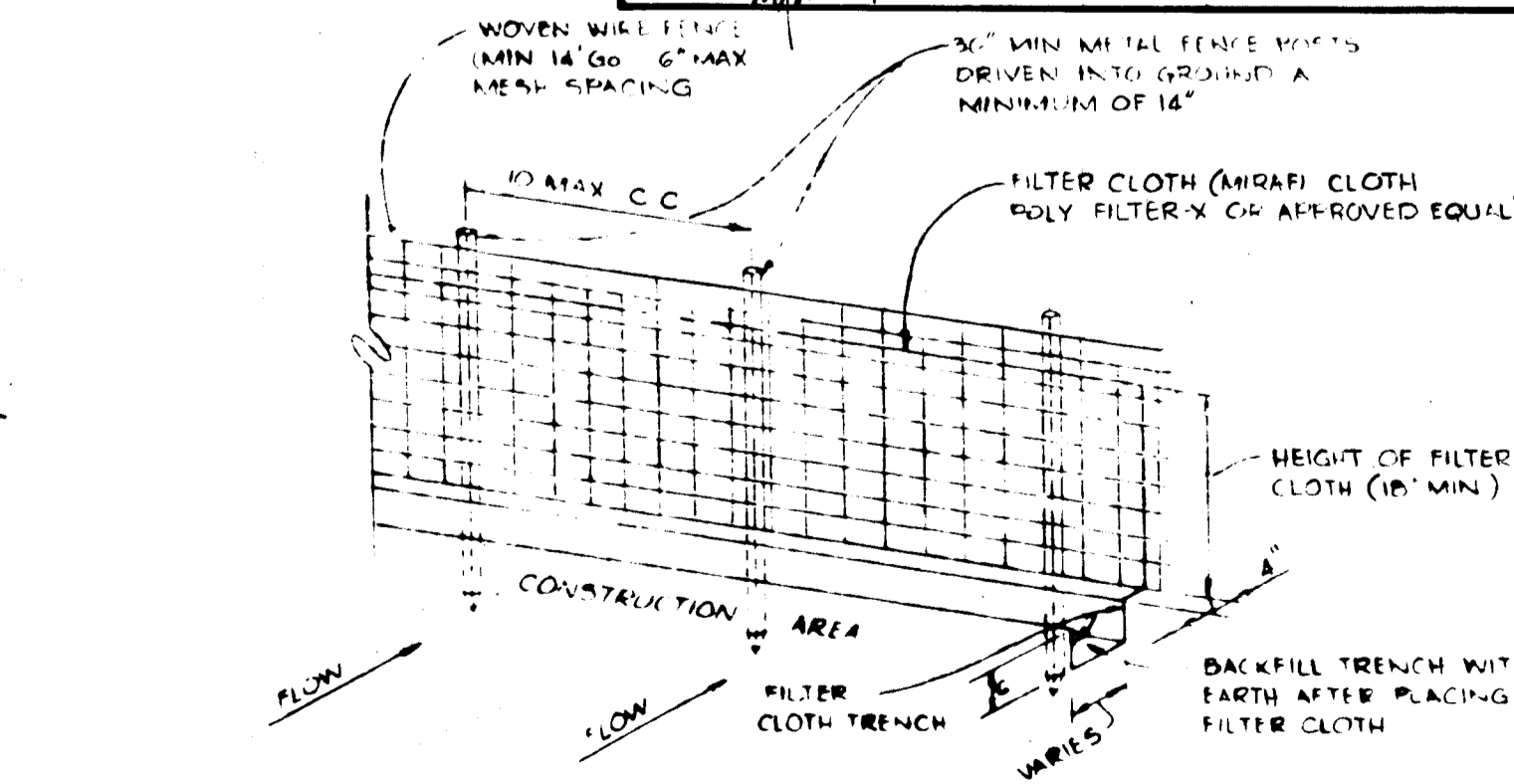
TEMPORARY SEEDING

- AREA TO BE SEEDDED SHALL BE RECENTLY LOOSENEED. IF THE GROUND IS PACKED, CRUSTED OR HARD, THE TOP LAYER OF SOIL SHALL BE LOOSENEED BY DISCING, RACKING OR OTHER ACCEPTABLE MEANS.
- APPLY 10-20-10 FERTILIZER (OR EQUIVALENT) AT THE RATE OF 600 LBS. PER ACRE OR 15 LBS. PER 1000 SQ. FT.
 - WHERE SOIL IS KNOWN TO BE HIGHLY ACID, APPLY DOLOMITIC LIMESTONE AT THE RATE OF 1 TON PER ACRE.
 - WORK BOTH INTO SOIL AND SEED WITH CYCLONE SEEDER, DRILL, MULTIPAKER SEEDER OR HYDROSEEDER (SLURRY WILL INCLUDE SEED AND FERTILIZER) AT THE RATE OF 40 LBS. PER ACRE OF ITALIAN OR PERENNIAL RYEGRASS.
 - MULCH WITH UNWEATHERED SMALL GRAIN STRAW AT THE RATE OF 1 1/2 TO 2 TONS PER ACRE AND ANCHOR WITH A CUTBACK ASPHALT OR EMULSIFIED ASPHALT AT THE RATE OF 5 GAL. PER 1000 SQ. FT.

PERMANENT SEEDING

- FINAL STABILIZATION WILL TAKE PLACE AS SOON AS POSSIBLE AS WEATHER CONDITIONS PERMIT. AS FOLLOWS:
- APPLY DOLOMITIC LIMESTONE AT THE RATE OF 2 TONS PER ACRE (ONE TONE PER ACRE IF APPLICATION OF TON PER ACRE WAS MADE FOR TEMPORARY SEEDING).
 - APPLY 0-20-20 FERTILIZER AT THE RATE OF 600 LBS. PER ACRE HAPROW OR DISC LIME AND 0-20-20 FERTILIZER INTO THE SOIL TO A MINIMUM DEPTH OF 3" LAWN OR HIGH MAINTENANCE AREAS WILL BE DRAGGED AND LEVELED WITH A YORK RAKE. AT THE TIME OF SEEDING APPLY 400 POUNDS OF 38-0-0 UREAFORM FERTILIZER AND 500 LBS. OF 10-20-20 OR EQUIVALENT FERTILIZER PER ACRE.
 - SEED WITH A MIXTURE OF CERTIFIED "MERION" KENTUCKY BLUEGRASS @ 40 LBS. PER ACRE; COMMON KENTUCKY BLUEGRASS @ 40 LBS. PER ACRE; RED FESCUE, PENNLAWN OR JAMESTOWN @ 20 LBS. PER ACRE.
 - MULCH WITH UNWEATHERED SMALL GRAIN STRAW AT THE RATE OF 1 1/2 TO 2 TONS PER ACRE AND ANCHOR WITH A CUTBACK ASPHALT OR EMULSIFIED ASPHALT AT THE RATE OF 5 GAL. PER 1000 SQ. FT.
 - SEED ALL SLOPES WITH A MIXTURE OF CERTIFIED KENTUCKY 3, TALL FESCUE @ 50 LBS. PER ACRE AND INOCULATED KOREAN LESPEDEZA @ 15 LBS. PER ACRE.

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 [Signature]
 CHIEF, BUREAU OF ENGINEERING
 DATE 1-22-81



NOTES:
 1. WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS BY USE OF WIRE TIES.
 2. FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE BY USE OF WIRE TIES SPACED EVERY 24".
 3. SILT FENCE TO BE PLACED IN LINE OF STRAW BALES AND/OR DIVERSION DIKES AT THE OPTION OF THE DEVELOPER.

AS-BUILT 7-22-83
 AS-BUILT SURVEY CERTIFIED BY ARTHUR E. MUEGEE III, MD, REG. PROFESSIONAL ENGINEER NO. 8707

SILT FENCE
NO SCALE

- Obtain grading permit.
- Install stabilized construction entrance.
- Install sediment traps 1 & 2 with stone outlet structures.
- Install perimeter dikes & straw bale dikes.
- Seed all control dikes in accordance with temporary seeding notes.
- Install interceptor swales.
- First order of grading shall be as shown on Drawing 8 of 9.
- For final order of grading install silt fence below Storm Water Management Area south of Pilgrim Ave. (In the area of Sediment Trap No. 1)
- Upon completion of all grading in the drainage area contributing to Sediment Trap No. 1, install the Storm Water Management Structures E-1, E-2, S-1 and related pipelines. Any damage to Sediment Trap No. 1 during pipeline construction shall be repaired. Install stone filter at throat of E-2.
- Remove Sediment Trap No. 1 and complete grading for Storm Water Management Facility.
- Stabilize all disturbed areas in accordance with permanent seeding notes.
- Upon approval of the Soil Conservation District remove all sediment control devices.

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING
 CHIEF, DIVISION OF LAND DEVELOPMENT
 DATE

THESE PLANS FOR SOIL EROSION AND SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.
 APPROVED: [Signature] 1-9-81
 HOWARD S.C.D. DATE
 F-81-18
 PLAN NUMBER

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 ALSO AUTHORIZING PERIODIC INSITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY.
 [Signature] 8/7/80
 DEVELOPER: RICHARD B. GUTER 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.
 [Signature] 8-7-80
 ENGINEER: JAMES H. JACOBY DATE

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SOIL EROSION AND SEDIMENT CONTROL.
 [Signature] 1-9-81
 HOWARD SOIL CONSERVATION SERVICE DATE

1-C-81	REVISION AS PER H.C. COMMENT DATED 12-31-80	
DATE	NO.	REVISION

OWNER: EASTON ASSOCIATES
 12400 CLARKSVILLE PIKE
 CLARKSVILLE, MARYLAND 21029

DEVELOPER: JACYN DEVELOPMENT GROUP
 12400 CLARKSVILLE PIKE
 CLARKSVILLE, MARYLAND 21029

PROJECT: **SETTLER'S LANDING**
 SECTION 1, AREA 1 LOTS 1 THRU 49

AREA: ELECTION DISTRICT N96 HOWARD COUNTY, MARYLAND
 TAX MAP N950 PARCEL 346

TITLE: STORM WATER MANAGEMENT DETAILS
 SEDIMENT CONTROL DETAILS AND NOTES

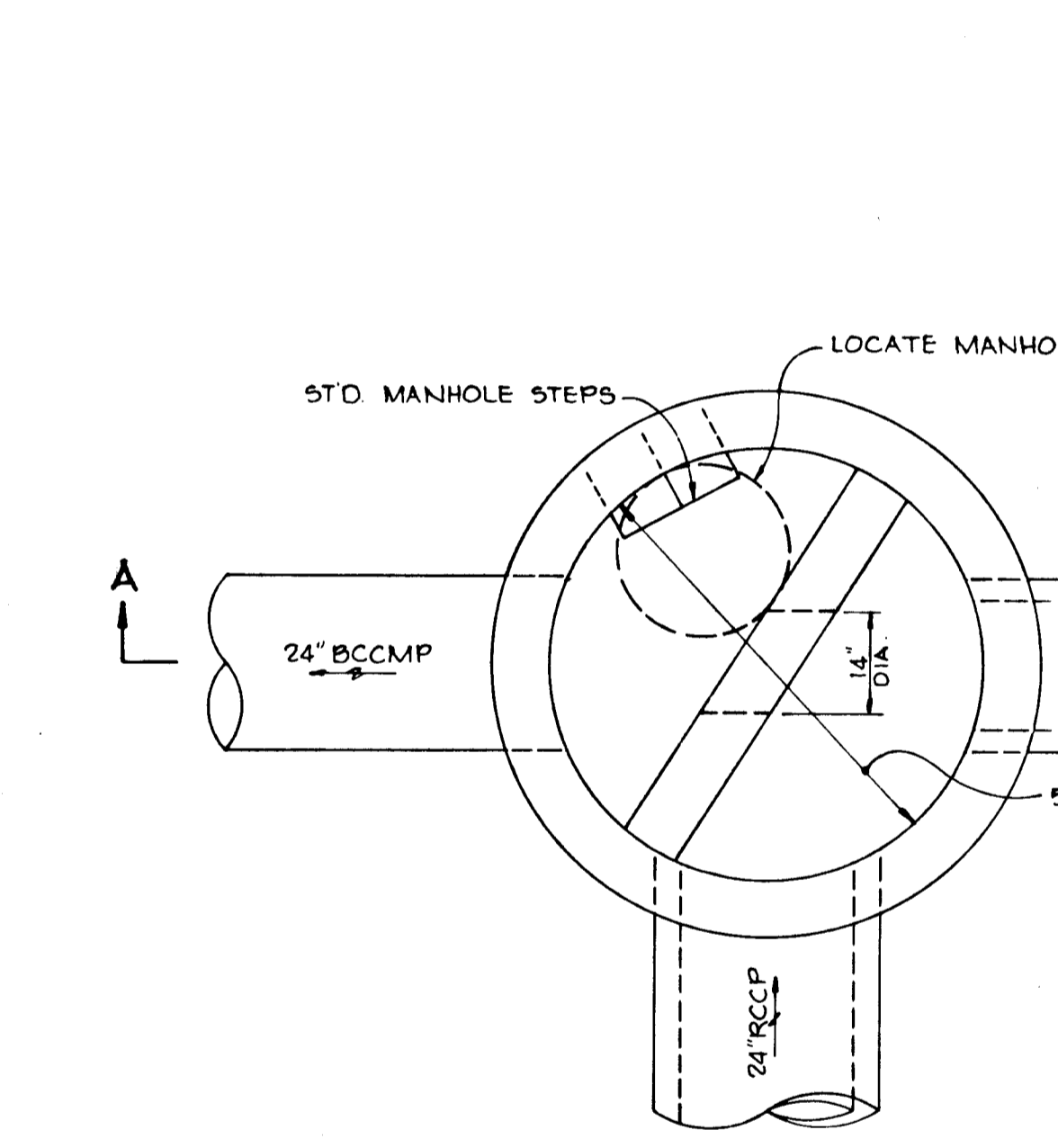
Riemer, Tracy & Associates, Inc.
 8659 Baltimore National Pike
 Ellicott City, Maryland 21043
 (301) 461-2690
 Land Planning, Design & Civil Engineering

DATE: 1-7-81

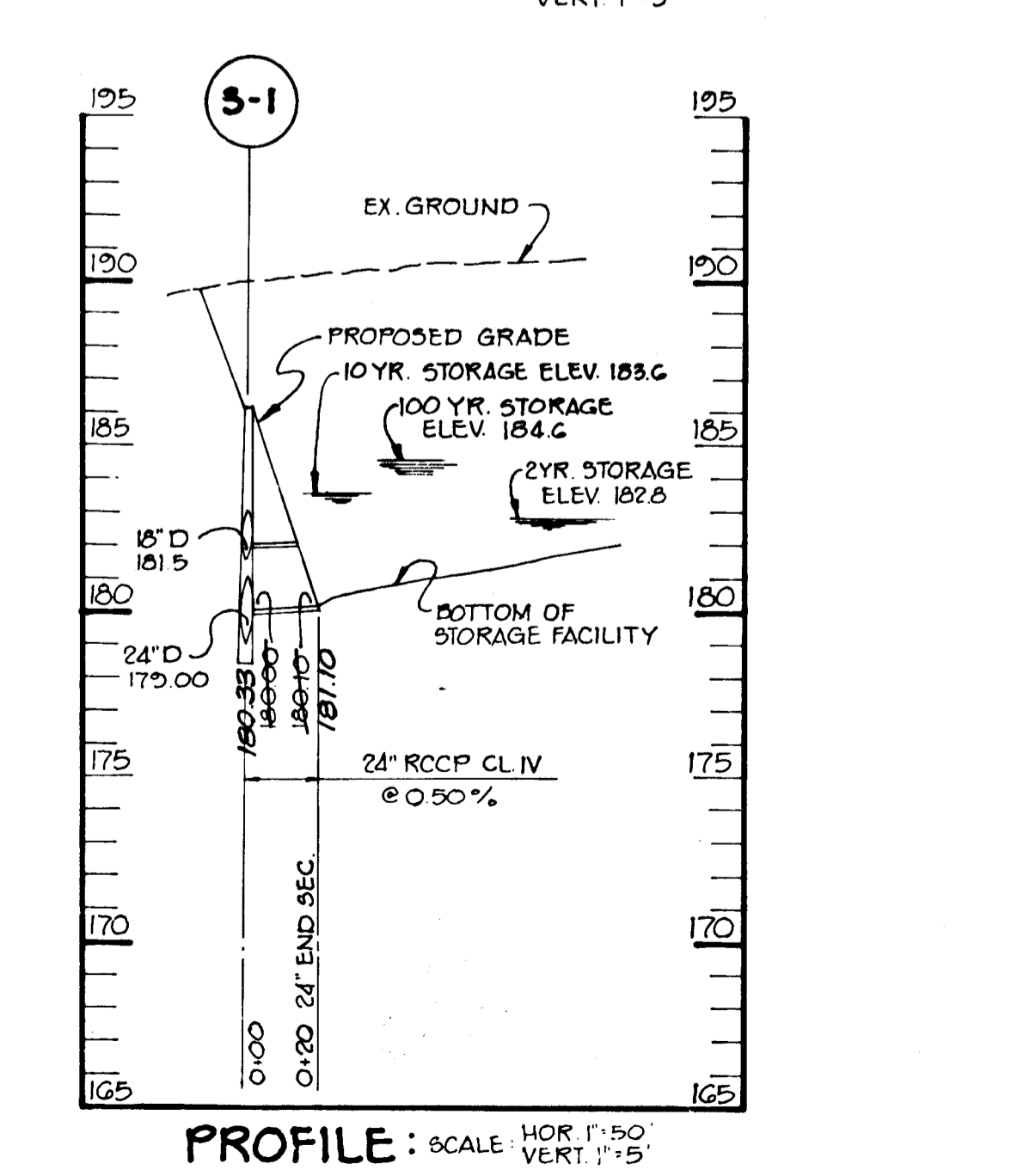
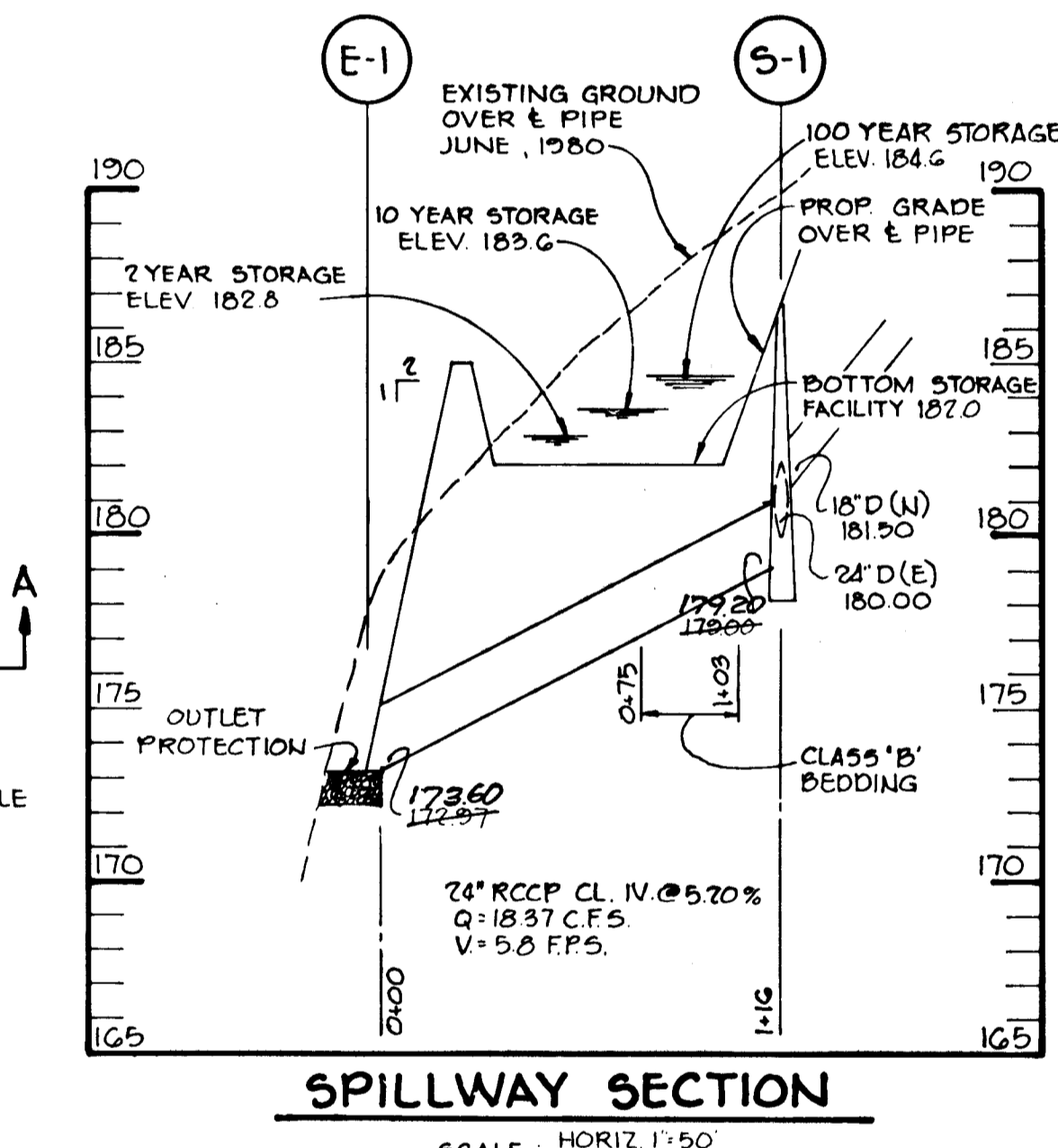
DESIGNED BY: J.K.T.
 DRAWN BY: R.J.W.
 PROJECT NO: 1880
 DATE: 8-8-80
 SCALE: AS SHOWN
 DRAWING NO: 2 OF 2

AS-BUILT 7-22-83
 F-81-18
 JANUARY 7, 1981

STRAW BALE DIKE
No Scale



INTERCEPTOR SWALE
No Scale



S.W.M. CONTROL STRUCTURE S-1
NO SCALE

#882

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AS-BUILT 7-22-83

AS-BUILT 7-22-83

AS-BUILT 7-22-83