

| SHEET INDEX | |
|-------------|---|
| NO. | DESCRIPTION |
| 1 | TITLE SHEET |
| 2 | PLAN AND PROFILE-MILLSTREAM COURT, MAYFIELD AVENUE, STORM DRAIN PROFILES, AND DRAINAGE AREA MAP |
| 3 | ROADWAY DETAILS |
| 4 | GRADING AND SEDIMENT CONTROL PLAN |

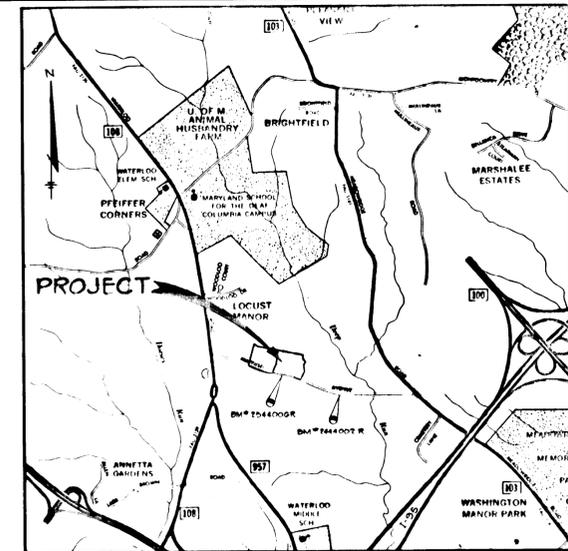
ROADWAY AND STORM DRAINS

THOMPSONS PURCHASE

SECTION 3 , AREA 1

1ST ELECTION DISTRICT

HOWARD COUNTY , MARYLAND



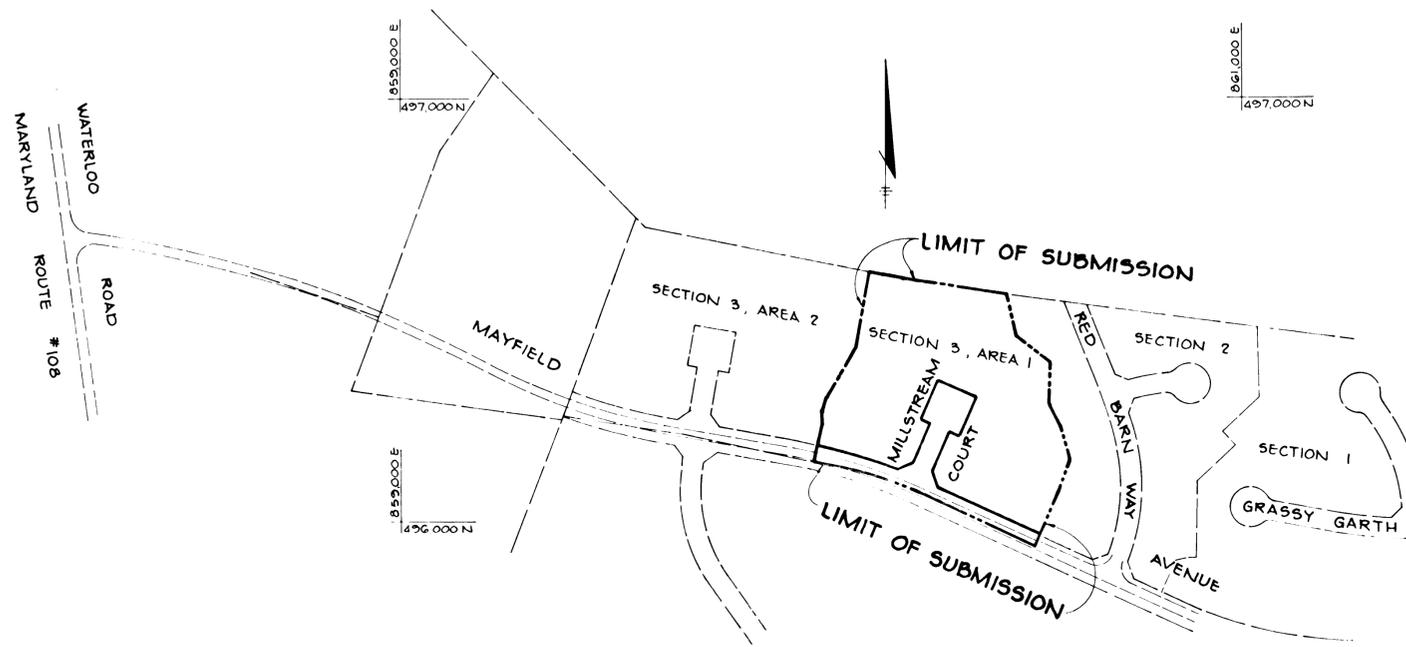
VICINITY MAP
SCALE 1"=2000'

BENCH MARKS
 HC BM # 2444002 R ELEV 283.474
 R B 03 BELOW SURFACE
 HC BM # 2544006 R ELEV 303.923
 R B 02 BELOW SURFACE

GENERAL NOTES

1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE HOWARD COUNTY DESIGN MANUAL, VOLUME IV, STANDARD SPECIFICATIONS AND DETAILS
2. 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.
3. THE CONTRACTOR SHALL TEST PIT EXISTING UTILITIES WHERE DIRECTED BY THE ENGINEER. A MINIMUM OF TWO WEEKS IN ADVANCE OF CONSTRUCTION OPERATIONS.
4. 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 | 539-R000 EXT. 691 |
| HOWARD COUNTY BUREAU OF UTILITIES | 992-2366 |
| HOWARD COUNTY CONSTRUCTION INSPECTION SURVEY DIVISION | 992-2417/2418 |
5. ALL INLETS SHALL BE CONSTRUCTED IN ACCORDANCE WITH HOWARD COUNTY STANDARDS.
6. ALL STREET CURB RETURNS SHALL HAVE 25.0' RADII UNLESS OTHERWISE NOTED.
7. STORM DRAIN TRENCHES WITHIN ROAD RIGHT OF WAY SHALL BE BACKFILLED AND COMPACTED IN ACCORDANCE WITH HOWARD COUNTY ROAD CODE.
8. INSTALLATION OF TRAFFIC CONTROL DEVICES, MARKING AND SIGNING SHALL BE IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES 1971 EDITION.
9. 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.
10. DESIGNED TRAFFIC SPEED IN ACCORDANCE WITH THE AMERICAN ASSOCIATION OF STATE HIGHWAY OFFICIAL STANDARDS:
 ALL CUL-DE-SAC DESIGNED FOR 25 M.P.H., ALL LOCAL STREETS DESIGNED FOR 30 M.P.H.
11. ALL ELEVATIONS SHOWN ARE BASED ON U.S.C. AND G.S. MEAN SEA LEVEL DATUM 1929.
12. ALL FILL AREAS WITHIN ROADWAYS AND UNDER STRUCTURES TO BE COMPACTED TO A MINIMUM 95% OF MAXIMUM OBTAINABLE DENSITY DETERMINED BY MARSHALL PROCTOR.
13. ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS.
14. PROFILE STATIONS SHALL BE ADJUSTED AS NECESSARY TO CONFORM TO PLAN DIMENSIONS.
15. SUBJECT PROPERTY ZONED R-SC PER 10-3-77 COMPREHENSIVE ZONING PLAN.
16. STORM WATER MANAGEMENT FOR THIS SITE HAS BEEN PROVIDED UNDER PREVIOUSLY APPROVED ROAD CONSTRUCTION PLANS FOR THOMPSON'S PURCHASE SECTION 1, F-81-43.
17. ALL NECESSARY UTILITY RELOCATIONS SHALL BE THE RESPONSIBILITY OF THE DEVELOPER.



PLAN
SCALE 1"=200'

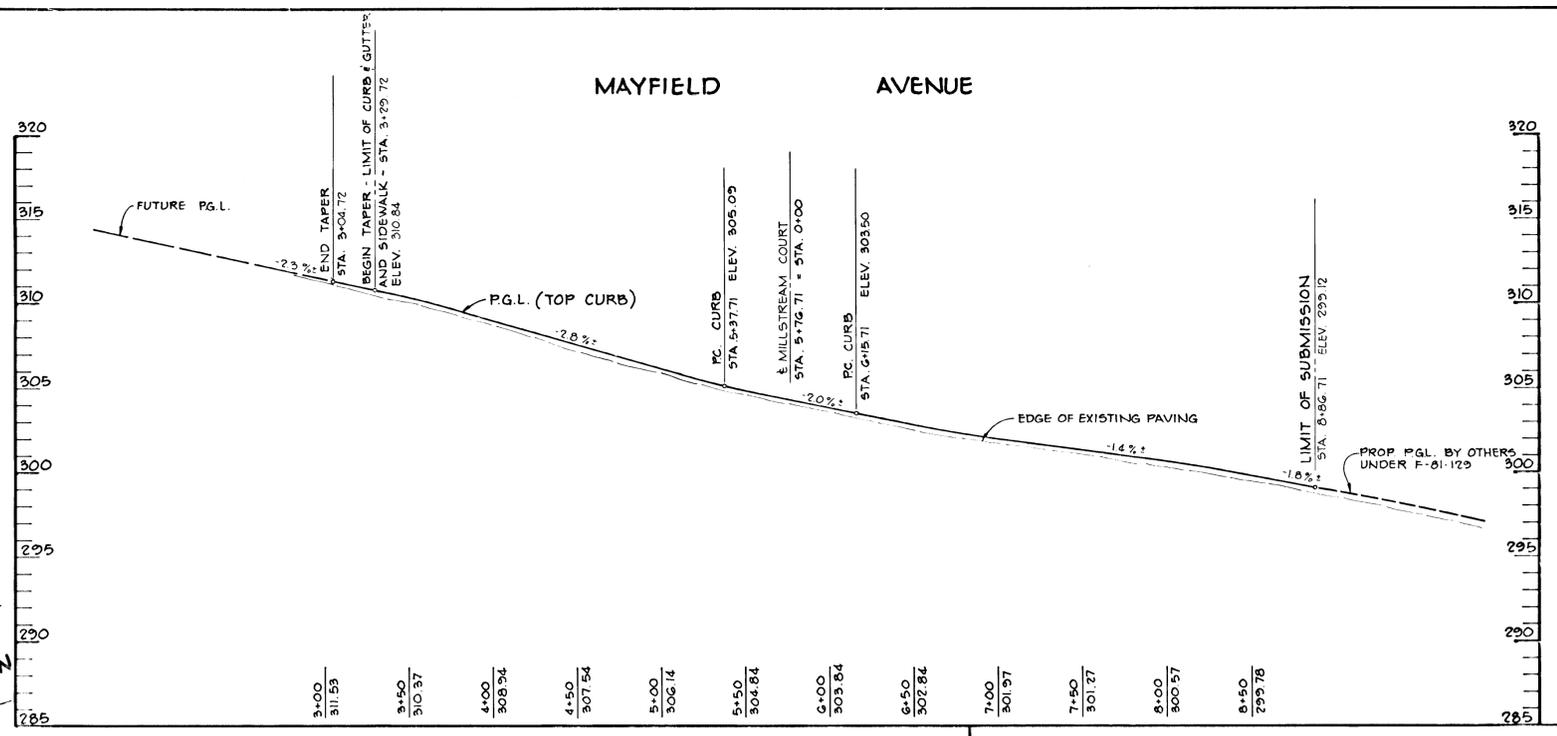
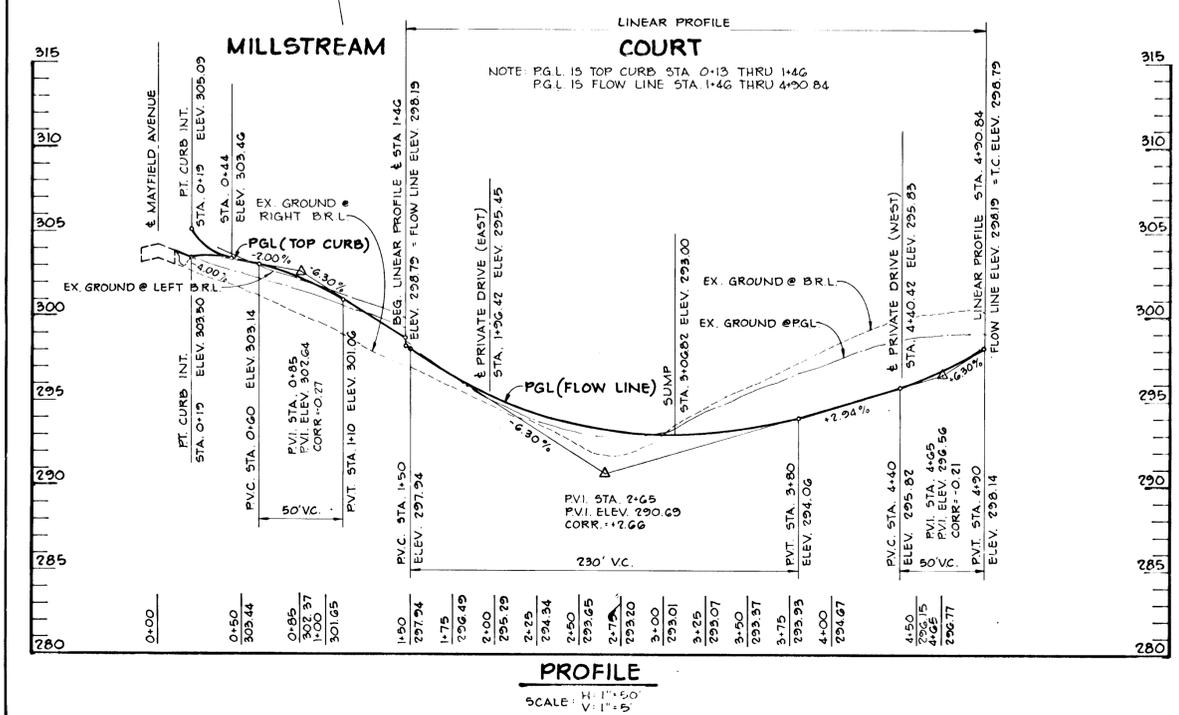
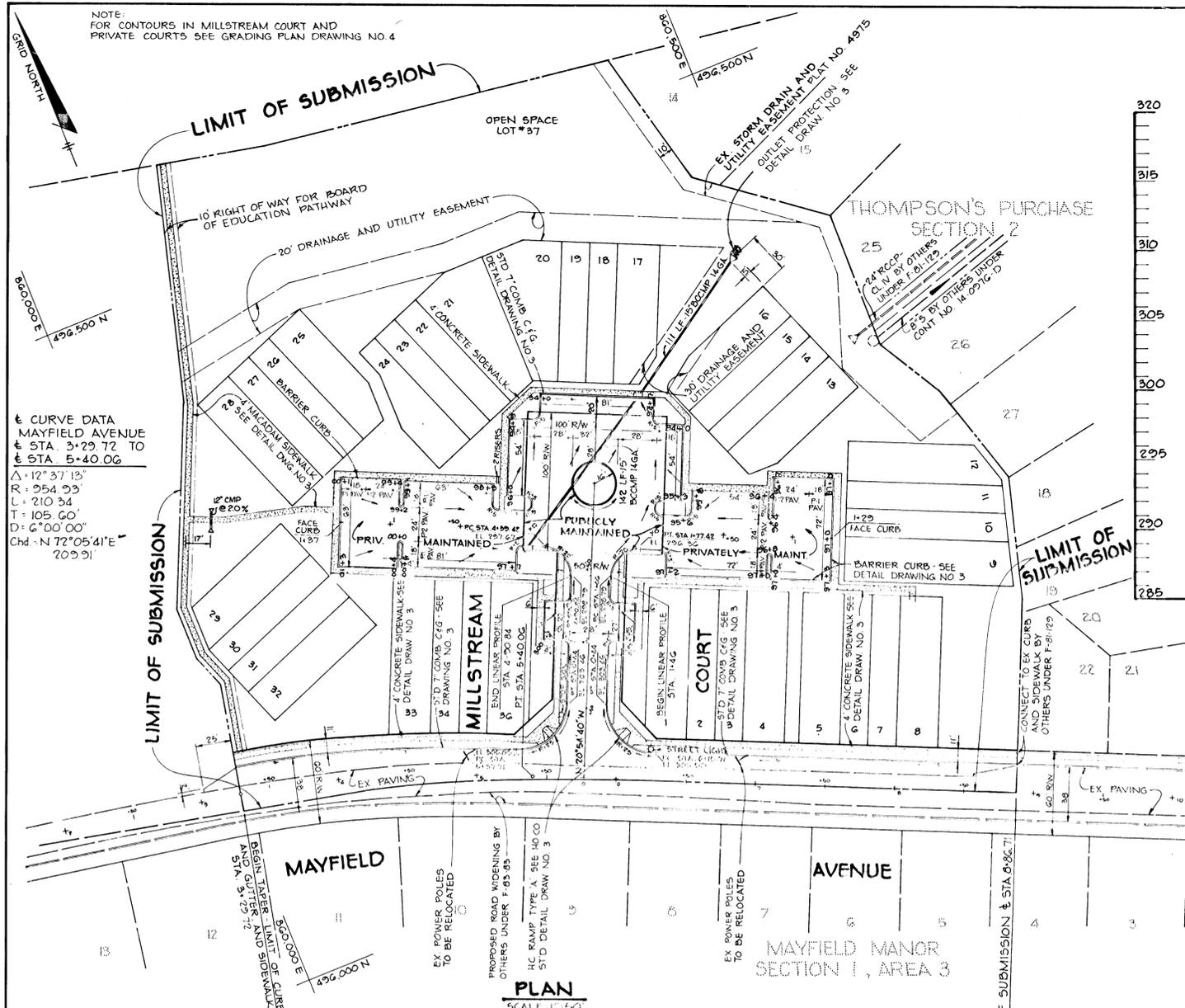
| | |
|---|-----------------|
| APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS | |
| <i>[Signature]</i> | 7-22-83 DATE |
| CHIEF, BUREAU OF ENGINEERING | |
| APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING | |
| <i>[Signature]</i> | 7-20-83 DATE |
| CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION | |
| NO. | REVISION |

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 planning • architecture • engineering

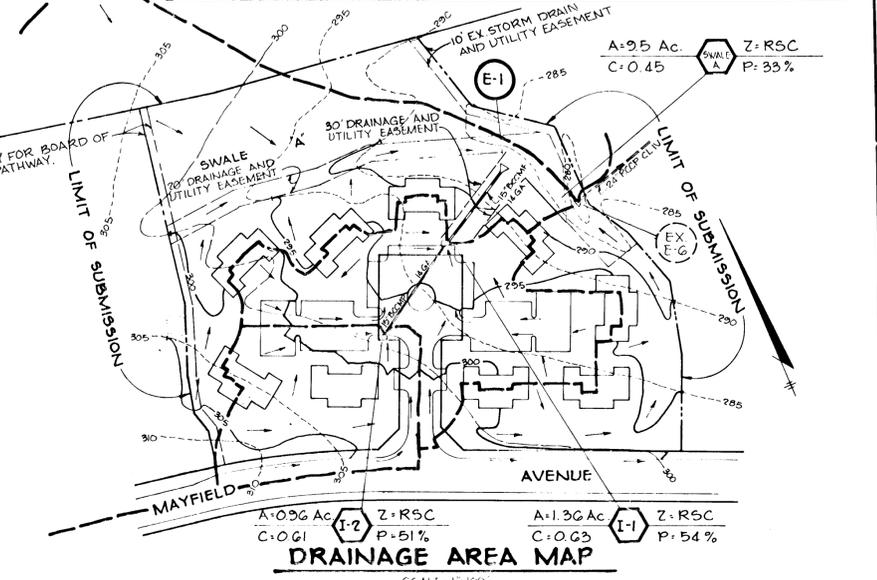
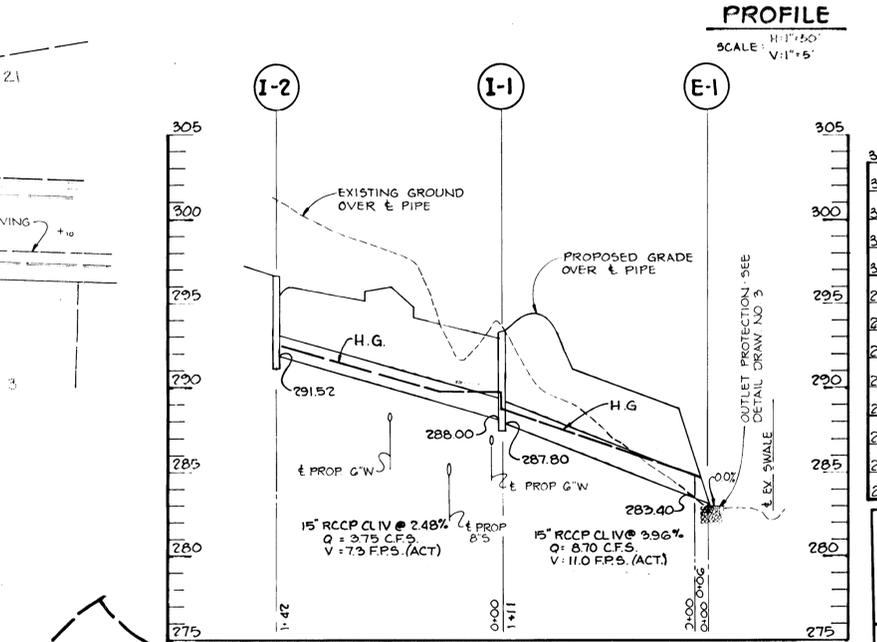
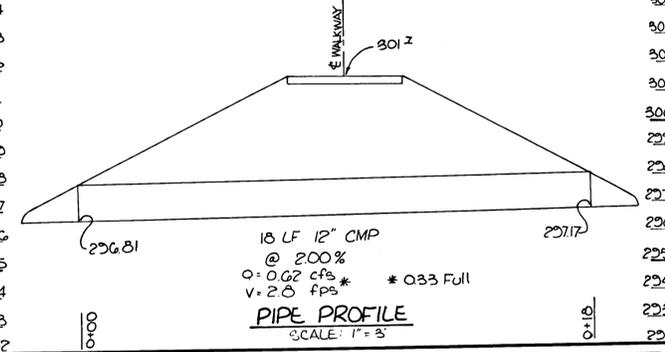
8450 Baltimore National Pike • Suite 34 • Ellicott City, Maryland 21043 • (301) 465-6105

James H. Tracy

| | |
|---|---|
| OWNER: SECURITY DEVELOPMENT CORP & RIDGELY ASSOCIATES % 8450 BALTIMORE NATIONAL PIKE ELLICOTT CITY, MD 21043 | PROJECT: THOMPSONS PURCHASE SECTION THREE AREA ONE |
| DEVELOPER: SECURITY DEVELOPMENT CORP 8450 BALTIMORE NATIONAL PIKE ELLICOTT CITY, MD 21043 | LOCATION: TAX MAP 57 PARCEL 154 1ST ELECTION DISTRICT HOWARD COUNTY, MARYLAND |
| DATE 3 31 83 | PROJECT NO 0382 F |
| DES: JRS/JKT DRN: RJW | SCALE: AS SHOWN DRAWING 1 OF 4 |



| NO. | TYPE | LOCATION | INV IN | INV OUT | TOP ELEV. | DESCRIPTION |
|-----|----------------|----------|--------|---------|-----------|-------------|
| 1-1 | A-10 INLET | SEE PLAN | 288.00 | 287.80 | 293.30 | H.C.SD-4.02 |
| 1-2 | A-5 INLET | SEE PLAN | - | 291.52 | 296.40 | H.C.SD-4.01 |
| E-1 | METAL END SECT | SEE PLAN | 289.40 | 289.09 | - | H.C.SD-5.G1 |



APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

[Signature] 7.22.83
CHIEF, BUREAU OF ENGINEERING DATE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING

[Signature] 7.20.83
CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION DATE

| NO. | DATE | REVISION |
|-----|---------|----------------------|
| 2 | 5-19-86 | Added 12" Drain |
| 1 | 1-11-84 | Revised Storm Drains |

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[Signature]

PROJECT: THOMPSON'S PURCHASE SECTION THREE AREA ONE

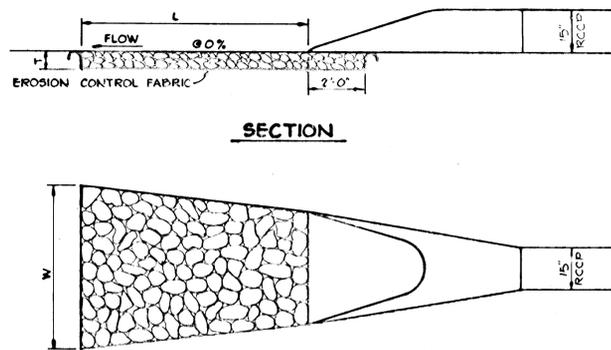
LOCATION: TAX MAP 154 PARCEL 154 1ST ELECTION DISTRICT HOWARD COUNTY, MARYLAND

TITLE: DRAINAGE AREA MAP PLAN AND PROFILE - MILLSTREAM COURT PLAN AND PROFILE - MAYFIELD AVENUE STORM DRAIN PROFILES

DATE: 3-31-83 PROJECT NO: 0382 F

DES. J.K.T. DTM: R.J.W. SCALE: AS SHOWN DRAWING: 2 OF 4

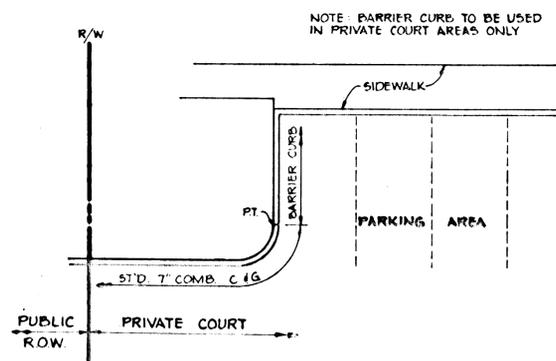
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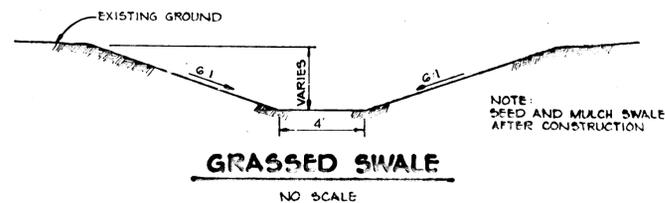
PLAN

| STRUCTURE | MEDIUM STONE DIA | LENGTH (L) | WIDTH (W) | THICKNESS (T) |
|-----------|------------------|------------|-----------|---------------|
| E-1 | 6" | 11'-0" | 12'-3" | 8" |

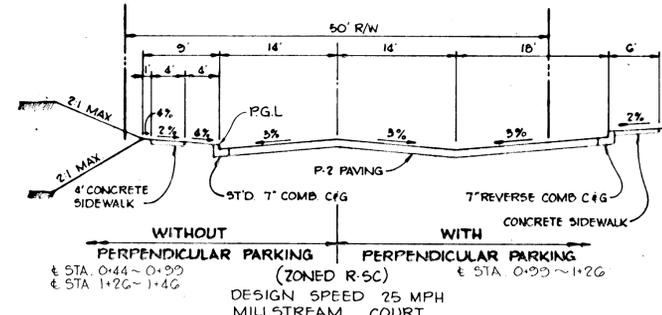
OUTLET PROTECTION DETAIL
NO SCALE



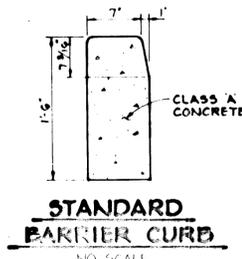
TYPICAL COMBINATION CURB AND GUTTER TO BARRIER CURB DETAIL
NO SCALE



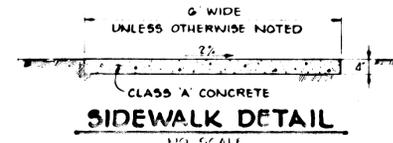
GRASSED SWALE
NO SCALE



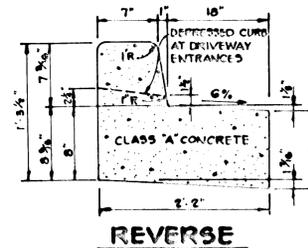
TYPICAL SECTION
NO SCALE



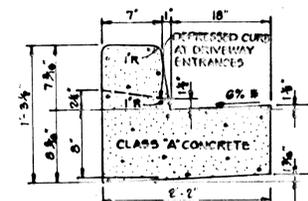
STANDARD BARRIER CURB
NO SCALE



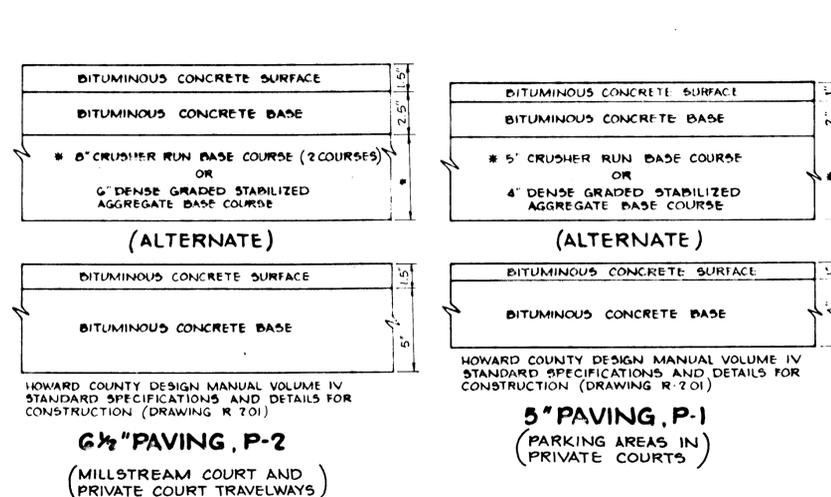
SIDEWALK DETAIL
NO SCALE



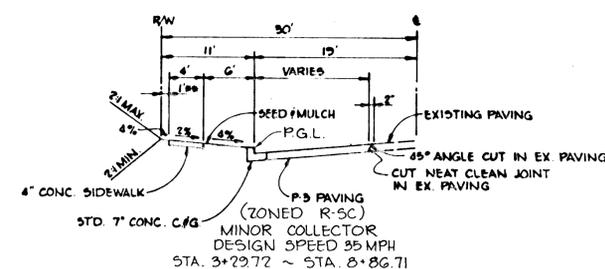
REVERSE



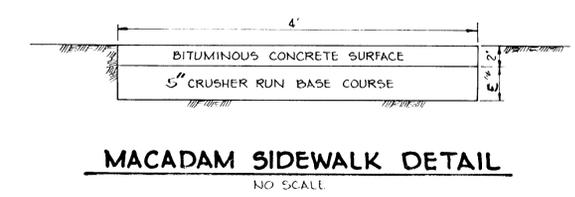
STANDARD 7" COMBINATION CURB AND GUTTER
NO SCALE



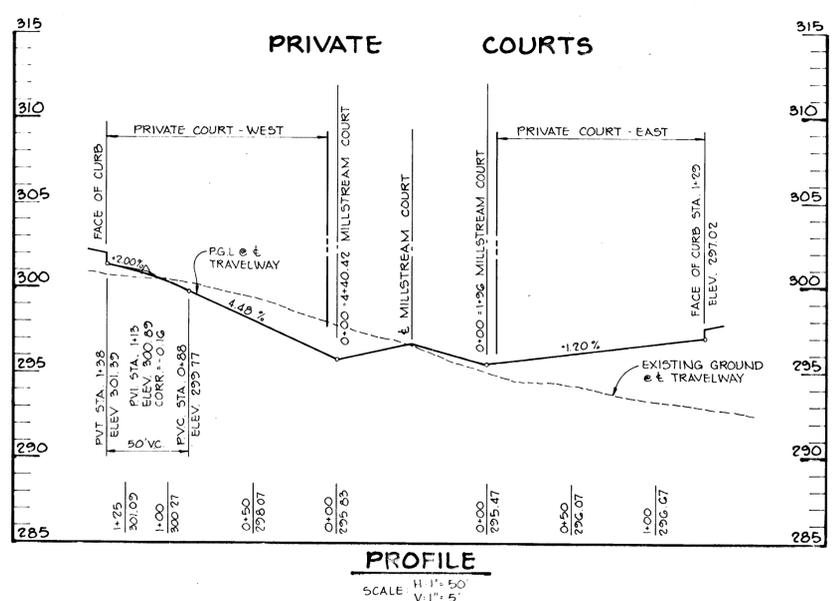
TYPICAL PAVING SECTIONS
NO SCALE



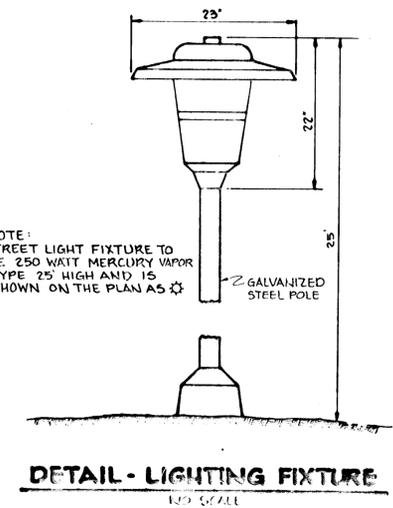
TYPICAL HALF SECTION MAYFIELD AVENUE
NO SCALE



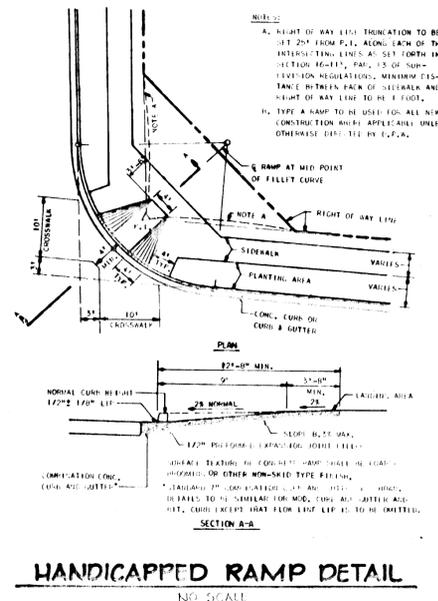
MACADAM SIDEWALK DETAIL
NO SCALE



PROFILE
SCALE: H 1" = 5' V 1" = 5'



DETAIL - LIGHTING FIXTURE
NO SCALE



HANDICAPPED RAMP DETAIL
NO SCALE

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING

CHIEF, BUREAU OF ENGINEERING
 CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION

DATE: 7-22-83
 DATE: 7-20-83

NO DATE REVISION

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PROJECT: SECURITY DEVELOPMENT CORP & RIDGELY ASSOCIATES
 % 8450 BALTIMORE NATIONAL PIKE
 ELLICOTT CITY, MD. 21043

PROJECT: THOMPSONS PURCHASE
 SECTION THREE AREA ONE
 LOCATION: TAX MAP 37
 PARCEL 154
 1ST ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

DEVELOPER: SECURITY DEVELOPMENT CORP
 8450 BALTIMORE NATIONAL PIKE
 ELLICOTT CITY, MD. 21043

TITLE: DETAILS

DATE: 3-31-83 PROJECT NO. 0382 F
 SCALE: AS SHOWN DRAWING 3 OF 4

DES: J.K.T. DWN: R.J.W.

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 (922-2070).
- 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 PROPER 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 GRUBBING REMAINDER OF SITE.

TEMPORARY SEEDING

AREA TO BE SEEDD 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 SOIL AND SEED WITH CYCLOE SEEDER. DRILL CULTIPAKER 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 CUTBACK ASPHALT OR EMULSIFIED ASPHALT AT THE RATE OF 5 GAL. PER 1000 SQ. FT.

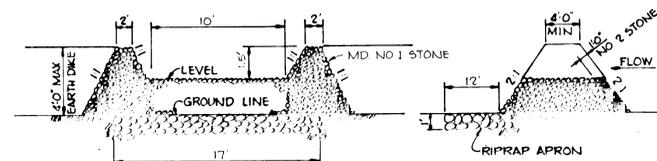
PERMANENT SEEDING

FINAL STABILIZATION WILL TAKE PLACE AS SOON AS POSSIBLE AS WEATHER CONDITIONS PERMIT, AS FOLLOWS:

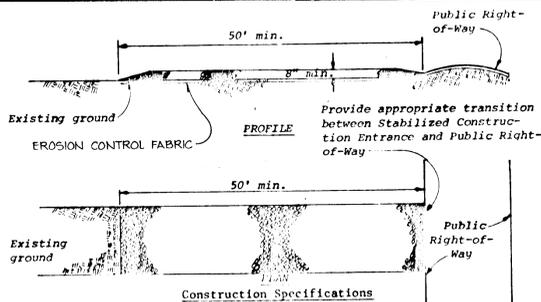
- APPLY DOLOMITIC LIMESTONE AT THE RATE OF 2 TONS PER ACRE (ONE TON PER ACRE IF APPLICATION OF TON PER ACRE WAS MADE FOR TEMPORARY SEEDING).
- APPLY 0-20-20 FERTILIZER AT THE RATE OF 600 LBS. PER ACRE HARROW OR DISC LIME AND 0-20-20 FERTILIZER INTO THE SOIL TO A MINIMUM DEPTH OF 3" LAWS OR HIGH MAINTENANCE 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 31 TALL FESCUE @ 50 LBS. PER ACRE AND INOCULATED KOREAN LESPEDEZA @ 15 LBS. PER ACRE.

SEQUENCE OF CONSTRUCTION

- OBTAIN A GRADING PERMIT
- INSTALL STABILIZED CONSTRUCTION ENTRANCE (SCE)
- CLEAR AND GRUB AREAS FOR SEDIMENT CONTROL DEVICE INSTALLATION
- INSTALL SEDIMENT TRAP WITH STONE OUTLET STRUCTURE
- COMPLETE CLEARING AND GRUBBING OPERATION
- GRAD SITE
- INSTALL UTILITIES (WATER, SEWER & STORM DRAIN). BLOCK ALL STORM DRAIN INLETS IN ACCORDANCE WITH "INLET BLOCKING DETAIL"
- STABILIZE ALL SLOPES BEYOND BUILDING PADS IN ACCORDANCE WITH "PERMANENT SEEDING NOTES"
- COMPLETE ALL CONSTRUCTION AND STABILIZE ALL DISTURBED AREAS IN ACCORDANCE WITH "PERMANENT SEEDING NOTES"
- UPON APPROVAL OF THE SOIL CONSERVATION DISTRICT, REMOVE ALL SEDIMENT CONTROL DEVICES AND STABILIZE DISTURBED AREAS IN ACCORDANCE WITH "PERMANENT SEEDING NOTES"



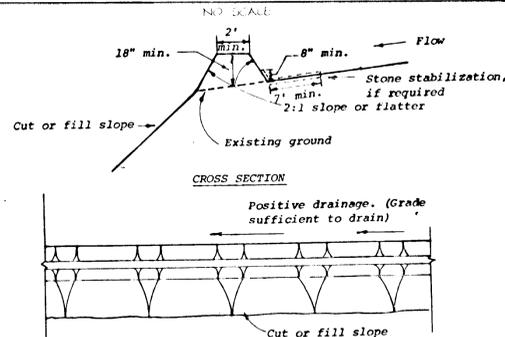
STONE OUTLET STRUCTURE
NO SCALE



- 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 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.

Standard Symbol SCE

STABILIZED CONSTRUCTION ENTRANCE

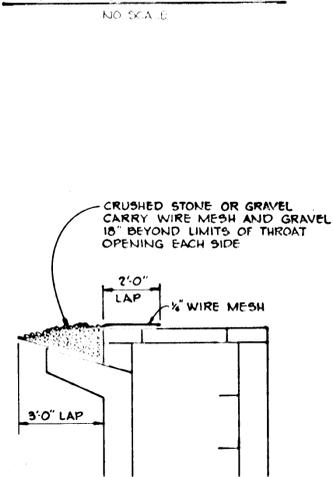


Construction Specifications.

- All dikes shall be machine compacted.
- All diversion dikes shall have positive drainage to an outlet.
- A. Diverted runoff from a protected or stabilized area shall outlet directly to 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 a sediment trap or a sediment basin or to an area protected by any of these practices.
- 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 M43 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 the drawing above.
- Periodic inspection and required maintenance shall be provided.

Standard Symbol PD
*Drainage area less than 5 acres

PERIMETER DIKE



SITE ANALYSIS

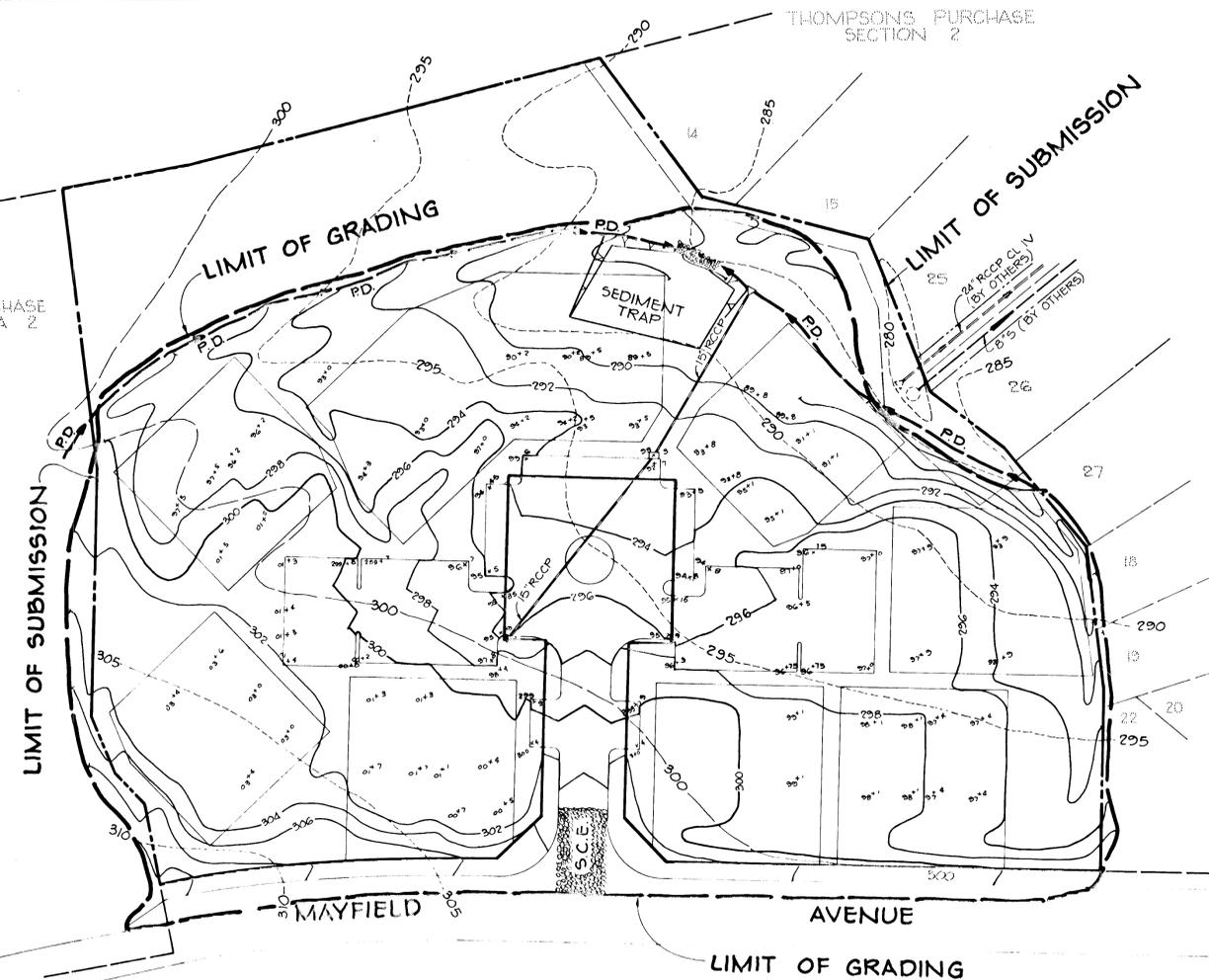
IMPERVIOUS AREA 1.86 Ac.
AREA TO BE REVEGETATED 2.96 Ac.
UNDISTURBED AREA 1.104 Ac.

TYPICAL INLET STONE FILTER
NO SCALE

SEDIMENT TRAP DATA

DRAINAGE AREA = 5.35
DISTURBED AREA = 4.82
STORAGE VOLUME:
REQUIRED = 9630cf
PROVIDED = 9750cf
CREST ELEVATION = 288.5
BOTTOM ELEVATION = 286.0
CLEANOUT ELEVATION = 287.3
TRAP DIMENSIONS = 50x78

THOMPSONS PURCHASE SECTION 3, AREA 2



PLAN
SCALE 1"=50'

| | |
|--|--------------|
| REVIEWED FOR Howard S.C.D. AND MEETS TECHNICAL REQUIREMENTS | DATE 7-18-83 |
| James M. Helms U.S. SOIL CONSERVATION SERVICE | |
| THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT | DATE 7-18-83 |
| Wm. T. Ramo HOWARD S.C.D. | |
| BY THE DEVELOPER: SECURITY DEVELOPMENT CORPORATION | |
| "I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT." | |
| James R. Moxley Jr. President DEVELOPER: JAMES R. MOXLEY JR. | DATE 4-4-83 |
| 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 JAMES K. TRACY, P.E. | DATE 4-4-83 |

| | |
|--|--|
| APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS | DATE 7-22-83 |
| Wesley E. Reed CHIEF, BUREAU OF ENGINEERING | |
| APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING | DATE 7-20-83 |
| James K. Tracy CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION | |
| NO DATE | REVISION |
| TRACY, SCHULTE & ASSOCIATES INC. planning • architecture • engineering 8450 Baltimore National Pike • Suite 34 • Ellicott City, Maryland 21043 • (301) 465-6105 | |
| OWNER: | PROJECT: |
| SECURITY DEVELOPMENT CORP & RIDGELY ASSOCIATES % 8450 BALTIMORE NATIONAL PIKE ELLCOTT CITY, MD 21043 | THOMPSONS PURCHASE SECTION THREE AREA ONE |
| DEVELOPER: | LOCATION: |
| SECURITY DEVELOPMENT CORP 8450 BALTIMORE NATIONAL PIKE ELLCOTT CITY, MD 21043 | TAX MAP 37 PARCEL 154 1ST ELECTION DISTRICT HOWARD COUNTY, MARYLAND |
| TITLE: | DATE: |
| GRADING, SEDIMENT CONTROL PLAN NOTES AND DETAILS | 3-31-83 |
| DES: J.K.T. | PROJCT NO: 0382 F |
| DRN: R.J.W. | SCALE: AS SHOWN |
| | DRAWING: 4 OF 4 |

#883