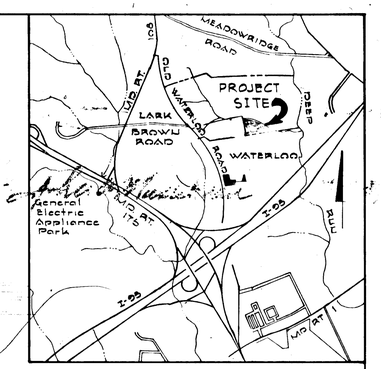
SHEET INDEX	
SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	Plan & Profile, Birch Way, Aspern Drive, Ulm Place
3	Profile, Aspern Drive & Details
4	Storm Drain Profile & Details
5	Drainage Area Map
6	Sediment Control Plan
7	Sediment Control, Notes & Details
8	Landscape Plan

DEVELOPMENT SUMMARY
SECTION I

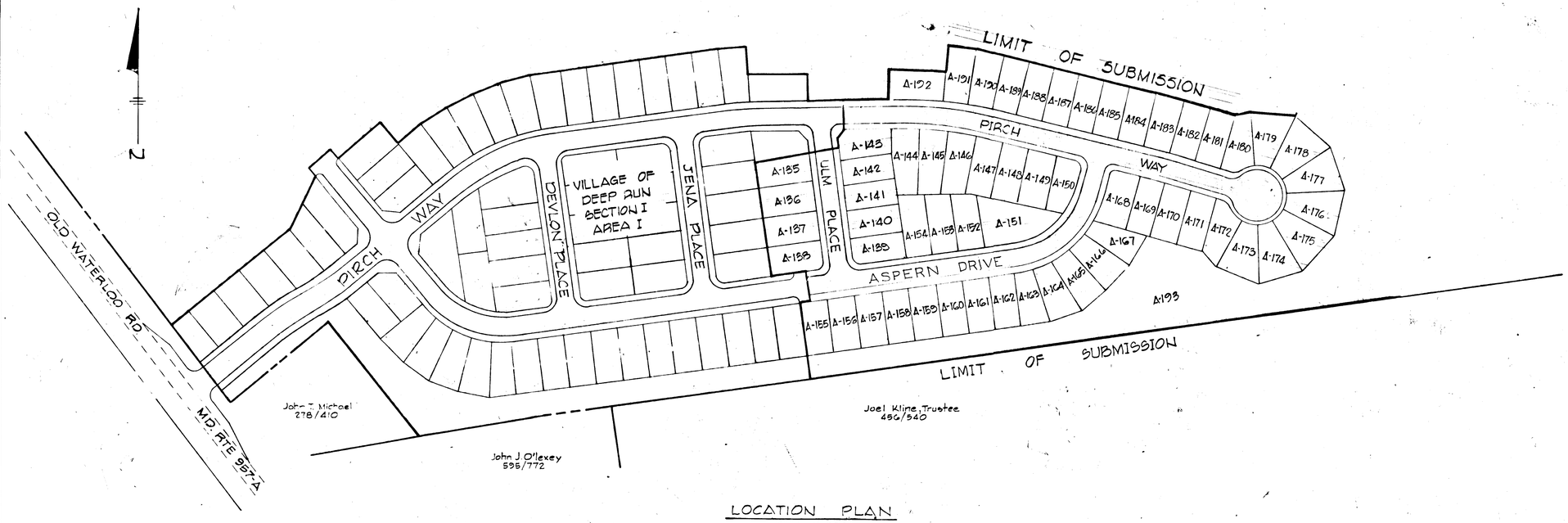
TOTAL AREA	12.546	Ac.
OPEN SPACE	4.719	Ac.
TOTAL LOT AREA	5.972	Ac. (55 LOTS)
TOTAL ROADWAY AREA	1.855	Ac.
ZONING (PRESENT)	RMH	

NOTE: These plans are subject to Variance Petition 83-110



VICINITY MAP
Scale: 1" = 2000'

DEEP RUN PARK
SECTION I



LOCATION PLAN
Scale: 1" = 100'

GENERAL NOTES

1. All work shall be performed in accordance with the Howard County Standard Specifications and Details for Construction.
2. All utility companies shall be notified 24 hours in advance of construction.
3. Streets are designed for traffic speed of 30 mph in accordance with AASHTO Standards.
4. All inlets shall be Howard County Standard unless otherwise noted.
5. All street curb returns shall have a 35' radius unless otherwise noted.
6. Storm drain trenches within road rights-of-way shall be backfilled and compacted in accordance with Howard County Road Construction Code and Standard Specifications.
7. Approximate location of existing utilities are shown. The contractor shall take all necessary precautions to protect the existing utilities and to maintain uninterrupted service. Any damage due to contractors operations shall be repaired immediately at the contractors expense.
8. The contractor shall test pit existing utilities where directed by the engineer a minimum of two weeks in advance of construction operations.
9. All reinforced concrete for storm drain structures shall have a minimum 28 days strength of 3,500 psi.
10. Traffic control devices and installation shall be in accordance with Manual on Uniform Traffic Control Devices, 1971 Revised edition.
11. Poly Filter X (filter cloth blanket) or equal shall be placed under all stone rip-rap.
12. Rip-rap at outfalls shall be unpaved unless otherwise noted.
13. All horizontal and vertical controls are based on Maryland State Datum.
14. Seed and mulch all disturbed areas.
15. All storm drain pipes shall have class "B" bedding.

REVIEWED FOR Howard SCD
Name
AND MEETS TECHNICAL REQUIREMENTS

J. Helmfz Date: 7-25-84
Signature
U.S. Soil Conservation Service

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

APPROVED R. Zeihm DATE 7-27-84
Howard S.C.D.

WHITMAN, REQUARDT AND ASSOCIATES
ENGINEERS
BALTIMORE, MARYLAND
Kenneth A. Mc Cord
KENNETH A. Mc CORD
Registered Engineer
No. 19741

DEPARTMENT OF PUBLIC WORKS
Vincent E. Riley 7-20-84
CHIEF, BUREAU OF ENGINEERING DATE

OFFICE OF PLANNING AND ZONING
7-27-84
CHIEF, DIVISION OF LAND DEVELOPMENT DATE
AND ZONING ADMINISTRATION

CERTIFICATION 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."

Signature of Developer 7/27/84 Date

CERTIFICATION 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"

Kenneth A. Mc Cord JUL 9 1981
Signature of Engineer Date

OWNER AND DEVELOPER
SECOND DEEP RUN ASSOCIATES
3701 OLD COURT ROAD, UNIT 11
BALTIMORE, MARYLAND 21208

VILLAGE OF DEEP RUN
SECTION I, AREA II
LOTS A-135 TO A-193
A RESUBDIVISION OF PART OF 'PARCEL "A"
TITLE SHEET
ROAD CONSTRUCTION PLANS
FIRST ELECTION DISTRICT HOWARD COUNTY, MARYLAND
Scale: As Shown Date: 12-27-83

VP-83-110 F-84-100 SHEET 1 OF 8

DEPARTMENT OF PUBLIC WORKS

CHIEF, BUREAU OF ENGINEERING — DATE 9-20-84

OFFICE OF PLANNING AND ZONING

CHIEF, DIVISION OF LAND DEVELOPMENT & ZONING ADMIN. — DATE 7-26-84

AS-BUILD SURVEY CERTIFIED BY KENNETH A. MC CORD REG-P.E. NO 1974 ON 12/27/83

Total Length of Linear Profile = 269.66'

Note: All dimensions are to face of curb.

Coordinates shown are extensions made from the Maryland State Plane Coordinate System. Bearings refer to true north and are based on Howard County Geodetic survey point nos. 2444003 and 2544003

VILLAGE OF DEEP RUN SECTION I, AREA II

1st ELECTION DISTRICT HOWARD COUNTY, MARYLAND

Plan & Profile, Pirch Way, Aspern Drive, Ulm Place

SCALE: 1"=50' DATE 12-27-83

WHITMAN, REQUARDT AND ASSOCIATES ENGINEERS
BALTIMORE, MARYLAND 21218

KENNETH A. McCORD
Registered Engineer
No. 1974

OWNER DEVELOPER
SECOND DEEP RUN ASSOCIATES
3701 OLD COURT ROAD UNIT #11
BALTIMORE, MARYLAND 21208

℄ CURVE DATA ①

P.C. Sta. 12+84.28 TO P.T. Sta. 14+38.78

ROAD "A"

RAD = 500.00' DEL: 17°22'00"
ARC: 151.55' CRD: 150.97
TAN: 76.50' BRG: S 89°37'59"E

℄ CURVE DATA ②

P.C. Sta. 0+66.11 TO P.T. Sta. 0+97.55

ROAD "D"

RAD: 400.00' DEL: 05°34'26"
ARC: 41.24' CRD: 41.22'
TAN: 20.64' BRG: S 05°16'12"E

℄ CURVE DATA ③

P.C. Sta. 11+41.94 TO P.T. Sta. 12+16.63

ROAD "B"

RAD: 150.00' DEL: 166°43'55"
ARC: 174.69' CRD: 164.98'
TAN: 98.77' BRG: N 48°24'48"E

PLAN

Scale: 1"=50'

PROFILE PIRCH WAY

Scale: 1"=50' H, 1"=5' V

PROFILE ULM PLACE

Scale: 1"=50' H, 1"=5' V

CUL-DE-SAC DETAIL FOR PIRCH WAY

Scale: 1"=30'

Δ = 289°08'23" R = 44.00' L = 222.04'

Δ = 54°04'11" R = 25.00' L = 23.81'

Δ = 54°04'11" R = 25.00' L = 23.81'

Modified Curb & Gutter For detail, See Sheet 3

PLAN

SURVEYED	
PLOTTED	
NOTE BOOK — ALIGNMENT CHECKED	
No. — ELEV. & LOCATIONS CHECKED	
BY	DATE

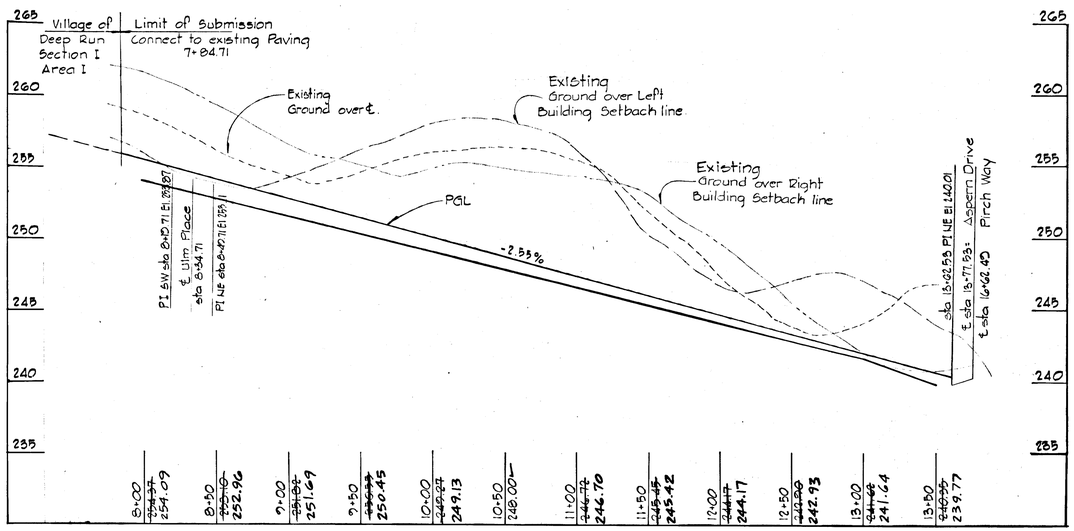
PROFILE

SURVEYED	
PLOTTED	
NOTE BOOK — GRADES CHECKED	
No. — ELEV. & LOCATIONS CHECKED	
BY	DATE

#844

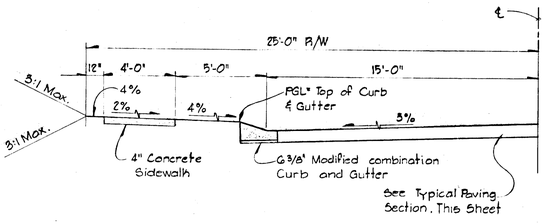
K&M PLATE 1, PLAN-PROFILE KEUFFEL & ESSER CO.

12/27/83 VP-83-110 F-84-100 SHEET 2 OF 8



PROFILE ASPERN DRIVE

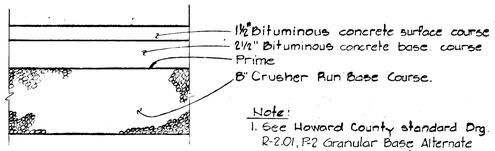
Scale: H: 1"=50'
V: 1"=5'



Note:
1. Road Design speed = 30 mph.

50' ROW TYPICAL HALF SECTION
30' PAVING, ALL BLOCKS

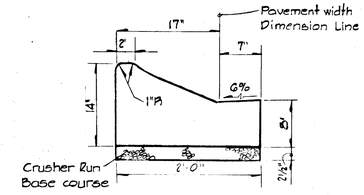
Scale: 1/4"=1'-0"



Note:
1. See Howard County standard Drg. R-2.01, P2 Granular Base Alternate
2. All work shall be performed to accordance with the Howard County Standard Specifications and Details for Construction.

TYPICAL PAVING SECTION

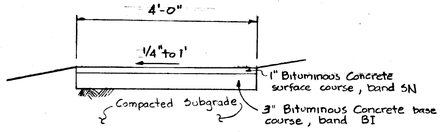
No Scale



Note:
Curb and gutter to be constructed with No 3 concrete.

G 3/6" MODIFIED COMBINATION CURB & GUTTER

No Scale



Pathway Detail

NTS

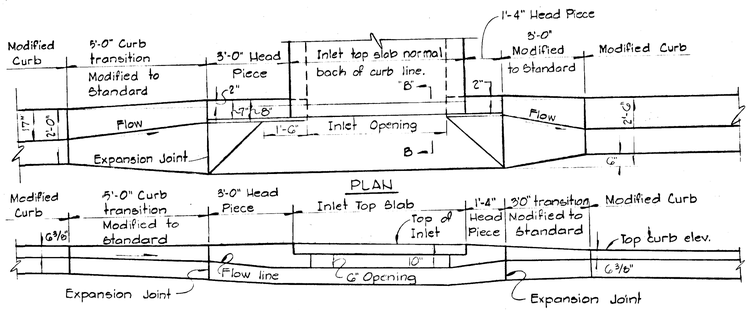
AS-BUILT SURVEY CERTIFIED
BY KENNETH A. MC CORD
REG-P.E. NO 1974 ON 12/27/83

WHITMAN REQUARDT AND ASSOCIATES
ENGINEERS
2315 SAINT PAUL STREET
BALTIMORE, MARYLAND 21218

Kenneth A. McCord
KENNETH A. McCORD P.E. NO. 19774

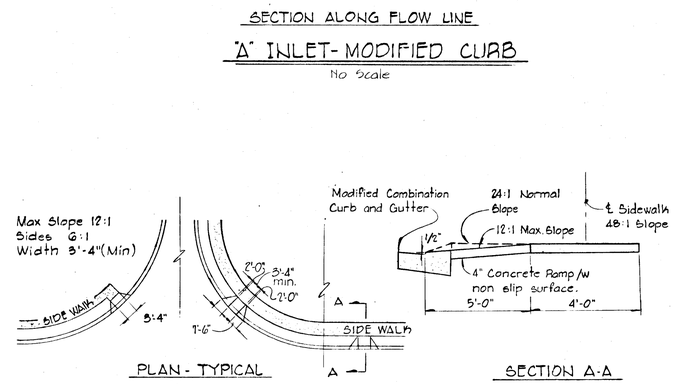
STORM DRAIN STRUCTURE SCHEDULE

No.	Type	Location	Top El.	Inv. in	Inv. out	Remarks
I 1	Δ 5	sta 18+38.46 Pirch Way 17.83' Lt.	234.54	229.28	228.08	Ho. Co. Std SD 4.01
I 2	Δ 10	sta 18+38.46 Pirch Way 17.83' Rt.	234.54	—	230.00	Ho. Co. Std SD 4.02
I 3	Δ 5	sta 12+37.50 Pirch Way 17.83' Lt.	246.96	241.70	239.40	Ho. Co. Std. SD 4.01
I 4	Δ 10	sta 12+37.50 Pirch Way 17.83' Rt.	246.96	242.60	242.42	Ho. Co. Std. SD 4.02
I 5	Δ 5 w/deflectors	sta 0+53.17 Ulm Place 17.83' Rt.	248.53	—	245.67	Ho. Co. Std. SD 4.01
I 6	Δ 5 w/deflectors	sta 0+51.77 Aspern Drive 17.83' Rt.	253.05	246.10	245.85	Ho. Co. Std. SD 4.01
S 1	18" Precast	sta 18+38.73 Pirch Way 122' Lt.	—	223.30	—	—
S 2	21" Precast	sta 18+30.49 Pirch Way 48' Lt.	—	237.30	—	—
MH 1	Standard	sta 0+53.17 Ulm Place 18.21' Lt.	248.60	243.60 / 243.30	243.34	Ho. Co. Std. SD G5.01



SECTION ALONG FLOW LINE
"A" INLET- MODIFIED CURB

No Scale

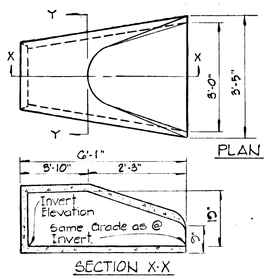


PLAN - TYPICAL
Scale: 1"=20'

SECTION A-A
Scale: 1/4"=1'-0"

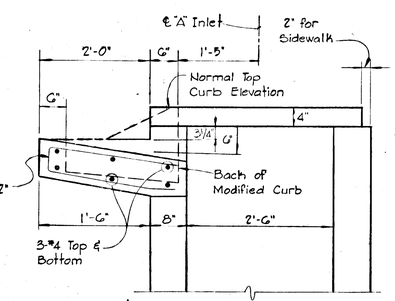
DETAIL - CURB RAMP

No Scale



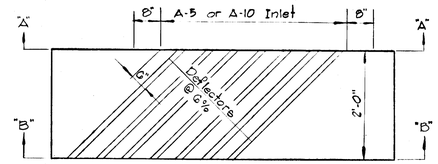
18" FLARED END SECTION
OUTLET

No Scale

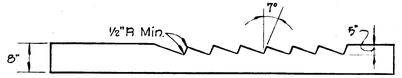


Note:
For A Inlet dimensions and structural details, see standard Howard County drawing SD. 4.01 & 4.02.

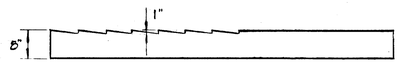
SECTION
"A" INLET
MODIFIED CURB



PLAN



SECTION "A-A"



SECTION "B-B"

DEFLECTOR DETAIL

No Scale

OWNER AND DEVELOPER
SECOND DEEP RUN ASSOCIATES
3701 OLD COURT ROAD UNIT #11
BALTIMORE MARYLAND 21208

VILLAGE OF DEEP RUN
SECTION I AREA II
LOTS A-185 TO A-193

A RESUBDIVISION OF PART OF PARCEL "A"
PROFILE ASPERN DRIVE & DETAILS
FIRST ELECTION DISTRICT HOWARD COUNTY, MARYLAND
Scale: As Shown DATE: 12-27-83

STORM DRAIN STRUCTURE SCHEDULE

No.	Type	Location	Top El.	Inv. in	Invout	Remarks
I-7	D, Standard	8+51.77 Aspern Dr. 132' Rt.	251.85	—	247.24	Ho. Co. Std Detail SD 4.11,*
I-8	D, Modified	See Plan	237.42	—	231.50	See Detail Sheet 5,* *
S-5	27" Precast	See Plan	—	229.76	—	—

* 3 wier openings N,S, & W (6"high)
** 4 wier openings (12"high)

DEPARTMENT OF PUBLIC WORKS
CHIEF BUREAU OF ENGINEERING — DATE 7-20-84

OFFICE OF PLANNING AND ZONING
CHIEF, DIVISION OF LAND DEVELOPMENT & ZONING ADMIN. — DATE 7/26/84

12/27/83

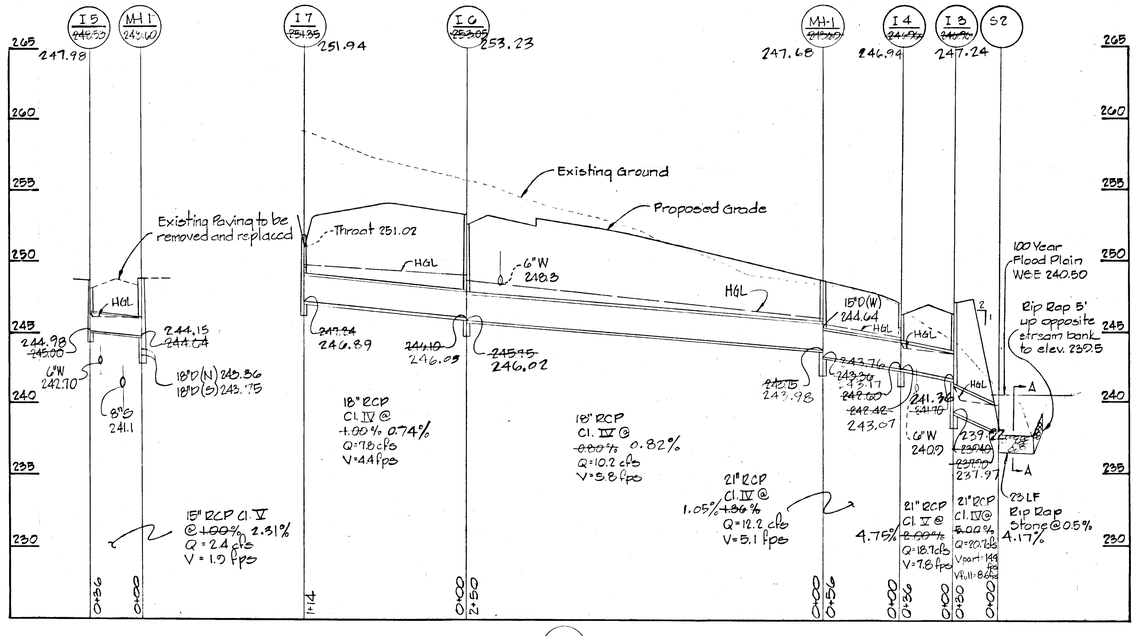
VP-83-110 **F-84-100** SHEET 3 OF 8

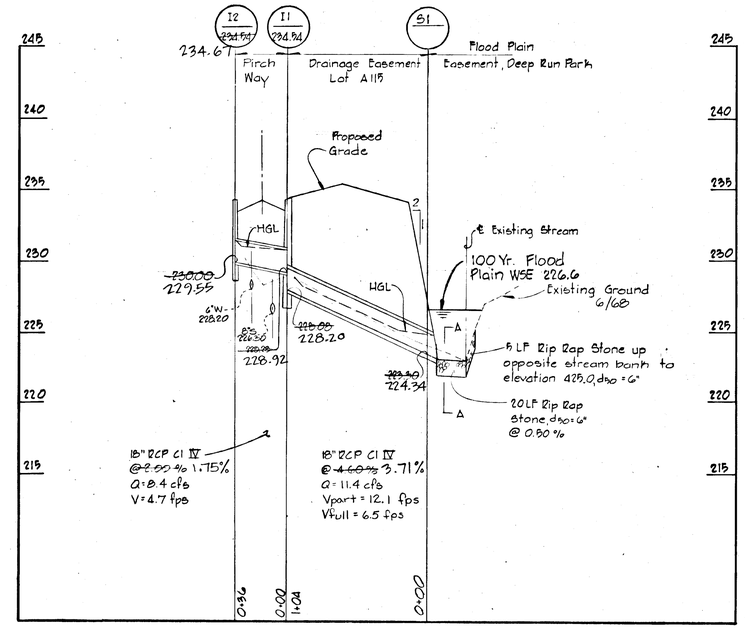
DEPARTMENT OF PUBLIC WORKS

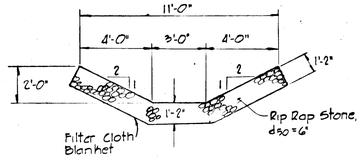
CHIEF, BUREAU OF ENGINEERING — DATE 7-20-84

OFFICE OF PLANNING AND ZONING

CHIEF, DIVISION OF LAND DEVELOPMENT & ZONING ADMIN. — DATE 7-24-84

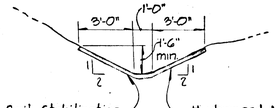






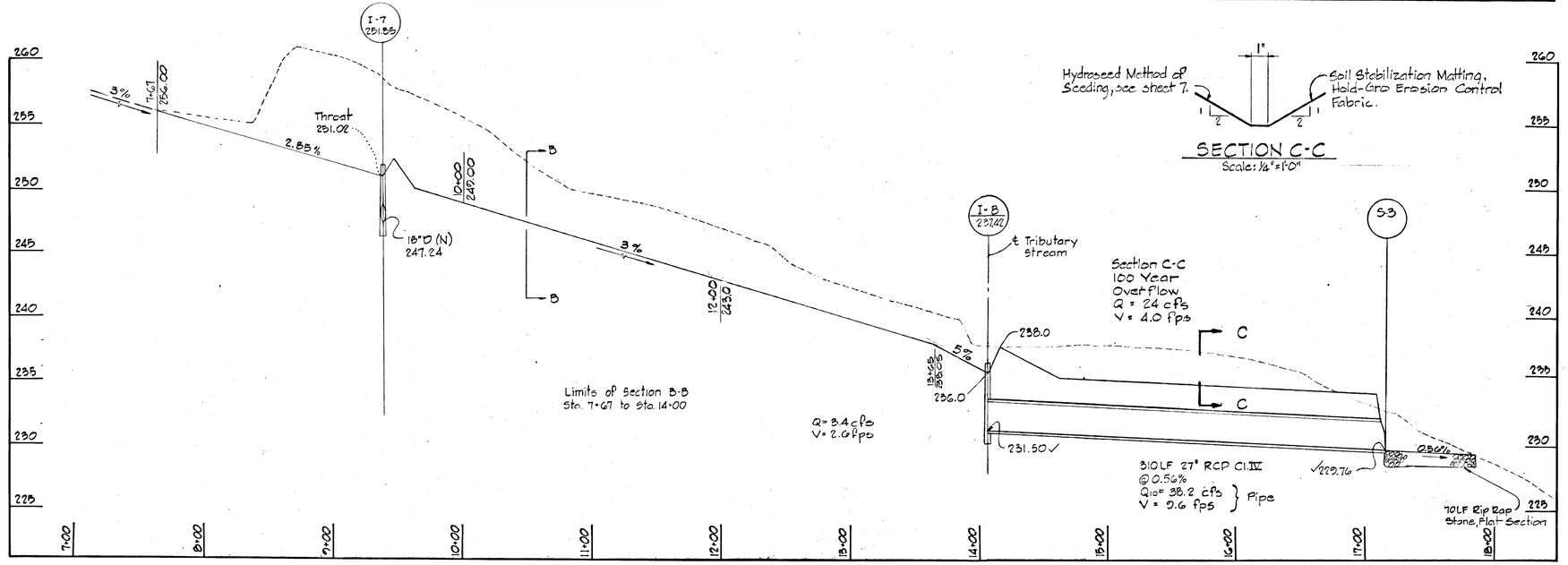
SECTION A-A

Scale: 1/4" = 1'-0"



SECTION B-B

Scale: 1/4" = 1'-0"



SECTION C-C

Scale: 1/2" = 1'-0"

PROFILE

Scale: Hor: 1" = 50' Vert: 1" = 5

WHITMAN, REQUARDT AND ASSOCIATES
ENGINEERS
2315 SAINT PAUL STREET
BALTIMORE, MARYLAND 21218

Kenneth A. McCord

KENNETH A. McCORD P.E. NO. 1974

AS-BUILT SURVEY CERTIFIED BY KENNETH A. McCORD REG-P.E. NO 1974 ON 12/27/83

CERTIFICATION OF DEVELOPER

"I certify that all development and/or construction will be done according to this plan of development and plan of 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."

Signature of Developer — Date 4/13/81

CERTIFICATION OF 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."

Kenneth A. McCord — Date 7-9-81

OWNER AND DEVELOPER
SECOND DEEP RUN ASSOCIATES
8701 OLD COURT ROAD, UNIT 11
BALTIMORE MARYLAND 21208

VILLAGE OF DEEP RUN
SECTION I AREA II

LOTS A-135 TO A-193
A RESUBDIVISION OF PART OF PARCEL 'A'
STORM DRAIN, PROFILES AND DETAILS
FIRST ELECTION DISTRICT HOWARD COUNTY, MARYLAND

Scale: As Shown — Date: 12-27-83

12/27/83

VP-83-110 F-84-100 SHEET 4 OF 8

DEPARTMENT OF PUBLIC WORKS

Chief, Bureau of Engineering — Date 7-20-84

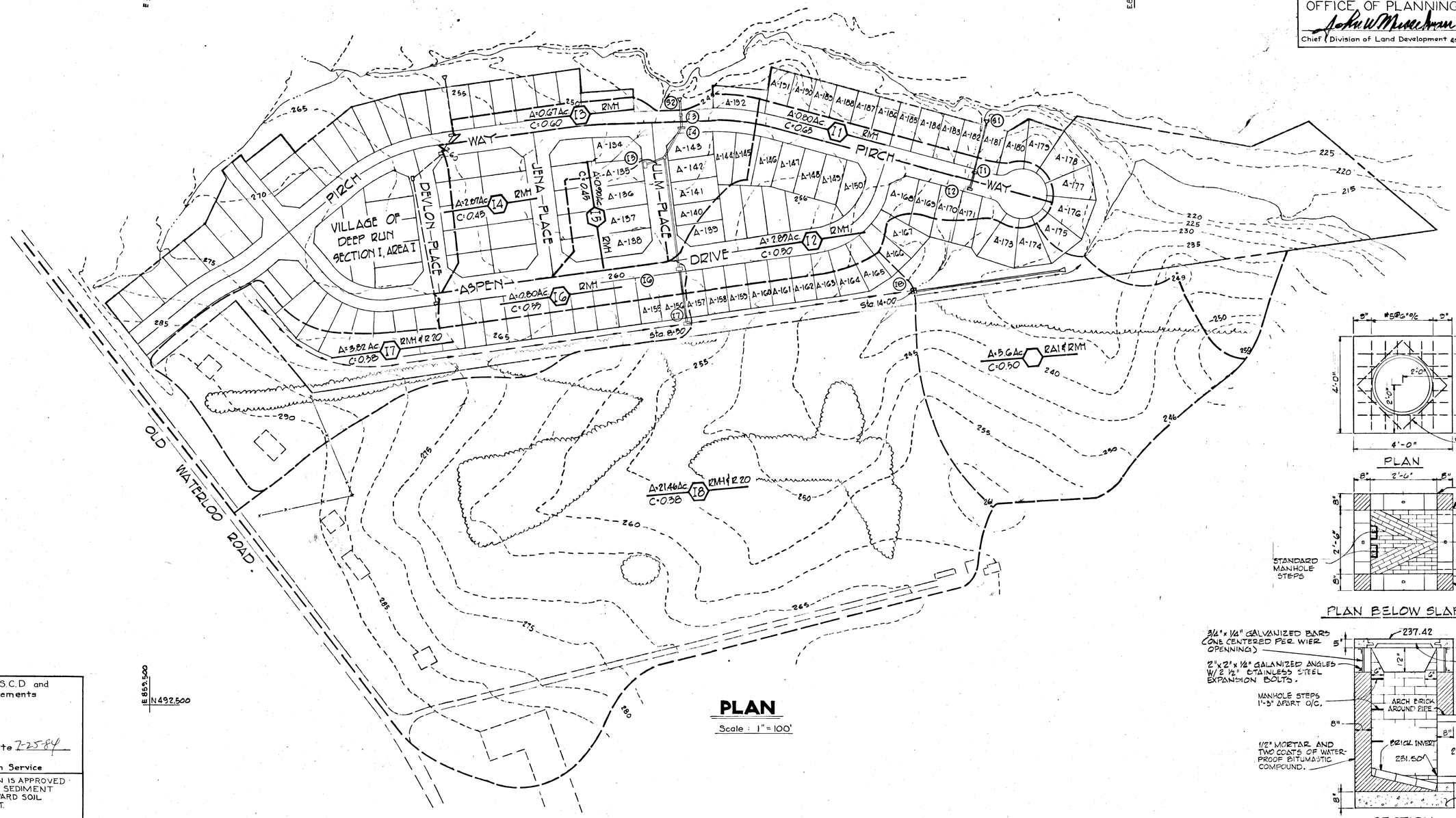
OFFICE OF PLANNING AND ZONING

Chief, Division of Land Development and Zoning Admin. — Date 7/26/84

N

N 494,000
E 859,500

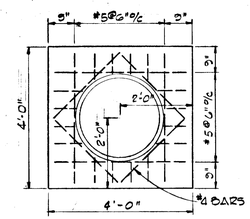
N 494,000
E 861,500



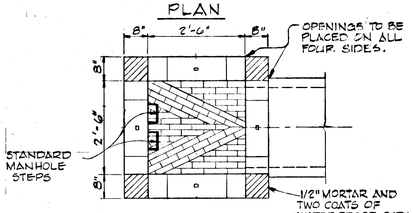
PLAN

Scale : 1" = 100'

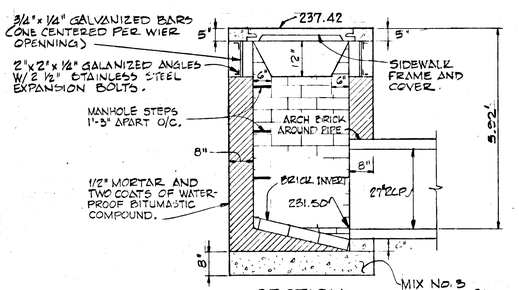
E 859,500
N 492,500



PLAN



PLAN BELOW SLAB



SECTION

DETAIL I-8

Scale: 1/2" = 1'-0"

Reviewed for Howard S.C.D and meets Technical Requirements

Signature — U.S. Soil Conservation Service — Date 7-25-84

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

Approved — Howard S.C.D. — Date 7-25-84

WHITMAN, REQUARDT AND ASSOCIATES
ENGINEERS
2315 SAINT PAUL STREET
BALTIMORE, MARYLAND 21218

KENNETH A. McCORD PE. NO. 1974

CERTIFICATION BY THE DEVELOPER

"I certify that all development and/or construction will be done according to this plan of development and plan of Erosion and Sediment Control, and I also authorize periodic on-site inspections by the Howard Soil Conservation District or their authorized agents, as are deemed necessary."

Signature of Developer — Date 4/27/81

CERTIFICATION OF THE ENGINEER

"I certify that this plan of 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 of Engineer — Date 7-9-81

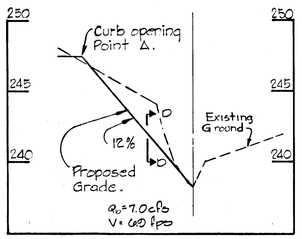
OWNER AND DEVELOPER
SECOND DEEP RUN ASSOCIATES
3701 OLD COURT ROAD, UNIT II
BALTIMORE, MARYLAND 21208

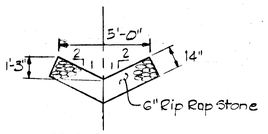
VILLAGE OF DEEP RUN
SECTION I, AREA II

LOTS A-135 TO A-193
A RESUBDIVISION OF PART OF PARCEL "A"
DRAINAGE AREA MAP
1st Election District — Howard County, Maryland

Scale: As Shown — Date: 12-27-83

VP-83-110 **F-84-100** Sheet 5 of 8





SECTION D-D

Scale 1/4" = 1'-0"

PROFILE - Rip Rap Channel Below Point A

Scale Hor: 1"= 50'
Vert: 1"= 5'

SEDIMENT TRAP DATA SCHEDULE							
Number	Drainage Area (Ac.)	Required Volume (CF)	Crest Elevation (Ft.)	Bottom Elevation (Ft.)	Dimensions @ Bottom (Ft x Ft)	Stone Outlet Width (Ft.)	Supplied Volume (CF)
1	1.17	3070	248.96	244.00	see plan	7'	3300
2	4.54	8170	234.00	229.90	19.6' x 69.6'	27'	8290
3	0.90	1620	225.00	222.00	12'x 23'	6'	1610
4	1.20	2160	234.00	231.00	23'x 20'	7'	2300

SITE ANALYSIS

Impervious Area	3.41 Ac.
Area to be Reseeded	5.24 Ac.
Total Disturbed Area	8.65 Ac.

DEPARTMENT OF PUBLIC WORKS

William E. Richmond — 7-20-84
CHIEF, BUREAU OF ENGINEERING — DATE

OFFICE OF PLANNING AND ZONING

John W. Moore — 7/26/84
CHIEF, DIVISION OF LAND DEVELOPMENT & ZONING ADMIN. — DATE

SEDIMENT CONTROL NOTES

1. ALL SEDIMENT CONTROL PROCEDURES SHALL BE CARRIED OUT IN ACCORDANCE WITH APPROVED PLANS AND CRITERIA OF THE HOWARD COUNTY SOIL CONSERVATION DISTRICT AND ALSO THE U.S. SOIL CONSERVATION SERVICE. STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL IN DEVELOPING AREAS (HEREIN AFTER REFERRED TO AS "STANDARDS AND SPECIFICATIONS")
2. ALL DISTURBED AREAS WHICH ARE TO BE EXPOSED FOR MORE THAN 60 DAYS SHALL BE STABILIZED WITH TEMPORARY SEEDING AND MULCHING IMMEDIATELY FOLLOWING ROUGH GRADING IN ACCORDANCE WITH PAGES 50.01 THROUGH 50.03 OF THE STANDARDS AND SPECIFICATIONS.
3. STABILIZATION OF THE PERIMETER DIKES WILL BE IN ACCORDANCE WITH PAGES 12.01 THROUGH 12.03 OF THE STANDARDS AND SPECIFICATIONS, UNLESS OTHERWISE NOTED ON THE PLANS.
4. THE STABILIZED CONSTRUCTION ENTRANCE WILL BE IN ACCORDANCE WITH PAGES 16.03 OF THE STANDARDS AND SPECIFICATIONS.
5. THE SEDIMENT TRAPS SHALL BE MAINTAINED BY THE CONTRACTOR ON A WEEKLY BASIS OR AFTER EACH RAINFALL.

Note:

Stabilize perimeter dike w/ 2 foot wide stone. MSHA size No.2 or AASHTO M43 size No.2 or 24 which is to be place into the soil. Stone shall be placed at base of the dike from curb opening "B" to curb on Pirch Way.

Temporary Sediment Trap #1, see inlet detail sheet 7, see data this sheet.

7' Width Rip Rap Stone d_{50}=6"

75 LF Rip Rap Stone d_{50}=6" See detail above.

Straw Bale Dike see detail sheet 7

Temporary Sediment Trap #2 see data this sheet.

Rip Rap Stone d_{50}=6"

6" high Asphalt Berm

Stabilized Construction Entrance See Detail Sheet 7

Sediment Trap Drainage Area Boundary

Perimeter Dike See Detail Sheet 7.

Sediment Trap Drainage Area Boundary

Stabilized Construction Entrance See Detail Sheet 7.

Perimeter Dike, See Detail sheet 7.

Stone Outlet Structure, 6' Width

Temporary Sediment Trap #4 see data this sheet.

Construct I8-53 before parallel ditch construction. Divert offsite clean water through I8-53

Rip Rap Stone d_{50}=6"

Stone Outlet Structure, 6' Width

Grade stabilization structure see detail this sheet.

Temporary Sediment Trap #3, see data this sheet.

Straw Bale Dike See Detail sheet 7 of 8.

PIRCH WAY

ULM PLACE

ASPERN DRIVE

N 493,750

N 493,500

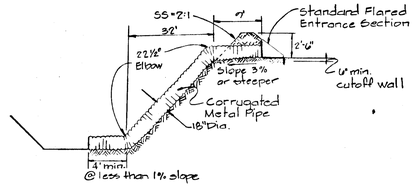
E 840,500

E 840,750

E 841,000

E 841,250

E 841,500



Construction Specifications

1. The inlet pipe shall have a slope of 3% or steeper.
2. The top of the earth dike over the inlet pipe and those dikes carrying water to the pipe shall be at least 1 foot higher at all points than the top of the inlet pipe.
3. The pipe shall be corrugated metal pipe with water tight connecting bands.
4. The soil around and under the inlet pipe entrance section shall be hand tamped in 4" lifts to the top of the earth dike.
5. Follow-up inspection and any needed maintenance shall be performed after each storm

DETAIL - Grade Stabilization Structure

Not to Scale

Reviewed for Howard S.C.D. and meets Technical Requirements.

J. Helm Z — 7-25-84
Signature — Date
U.S. Soil Conservation Service

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

R. Zielke — 7-25-84
Approved — Date
HOWARD S.C.D.

WHITMAN, REQUARDT AND ASSOCIATES
ENGINEERS
2315 SAINT PAUL STREET
BALTIMORE, MARYLAND 21218

#841

Kenneth A. McCord
KENNETH A. McCORD P.E. NO. 1974

CERTIFICATION OF DEVELOPER

"I certify that all development and/or construction will be done according to this plan of developement and plan of 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."

Signature of Developer — Date

CERTIFICATION OF 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."

Kenneth A. McCord — 7-9-81
Kenneth A. McCord — Date

OWNER AND DEVELOPER
SECOND DEEP RUN ASSOCIATES
9701 OLD COURT ROAD, UNIT 11
BALTIMORE, MARYLAND 21208

VILLAGE OF DEEP RUN
SECTION I AREA II

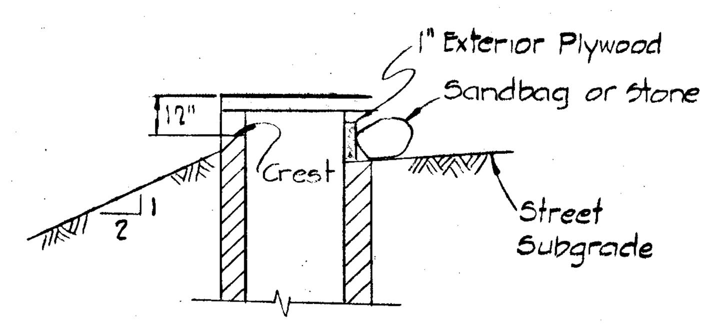
LOTS A-135 TO A-193
A RESUBDIVISION OF PART OF PARCEL "A"
SEDIMENT CONTROL PLAN
FIRST ELECTION DISTRICT HOWARD COUNTY, MARYLAND
Scale as shown — Date: 12-27-83

VP-83-110 — F-84-100 — SHEET 6 OF 8

SEQUENCE OF CONSTRUCTION

1. NOTIFY THE HOWARD COUNTY SOIL CONSERVATION DISTRICT AND THE HOWARD COUNTY BUREAU OF LICENSES, INSPECTIONS AND PERMITS, 48 HOURS BEFORE ANY WORK BEGINS.
2. CONSTRUCT STONE CONSTRUCTION ENTRANCES, CLEAR AND GRUB SEDIMENT TRAP AND DIKE AREAS.
3. BREAK THROUGH GUTTERS AT POINTS LABELED A AND B AND CONSTRUCT 8" HIGH ASPHALT BERM TO DIVERT CLEAN WATER FLOW FROM SECTION I. PLACE PLACE 14" THICK LAYER OF RIPRAP STONE AT OUTFALL OF THE ASPHAULT BERM.
4. CONSTRUCT SEDIMENT TRAPS 1 AND 2. TRAPS 1 AND 2 LIE WITHIN FILL AREAS, PROTECT THE BASE OF THE FILLS WITH STRAW BALES AS SHOWN ON THE PLANS, CONSTRUCT THE FILL ONLY AS NECESSARY TO CONSTRUCT THE TRAPS. FOR TRAP 1, CONSTRUCT THE 18" OUTFALL PIPE S2-I3 AND BUILD I3 WITH ITS REAR WIER TO SERVE AS CREST OF TRAP 1.
5. CONSTRUCT I-8-S3 AND UTILIZE AS THE CLEAN WATER DRAIN FOR THE OFFSITE DRAINAGE. CONSTRUCT THE DRAINAGE DITCH AND STONE OUTLET STRUCTURE SOUTH OF LOTS A-155 TO A-175 AND STABILIZE IMMEDIATELY.
6. CONSTRUCT REMAINING SEDIMENT CONTROL MEASURES, TRAPS 3 AND 4, ALL DIVERSION, PERIMETER, AND STRAW BALE DIKES, STABILIZE ALL SEDIMENT CONTROL MEASURES AS PER "SEDIMENT CONTROL NOTES". DIVERSION AND PERIMETER DIKES SHALL UTILIZE TOPSOIL AT SITE.
7. CLEAR AND GRUB REMAINING AREAS.
8. STRIP AND STOCKPILE TOPSOIL.
9. BEGIN ROUGH GRADING OF SITE.
10. INSTALL STORM DRAIN SYSTEMS. BLOCK INLET OPENINGS TO INLETS 1,2,3,4, AND 5. INSURE THAT CLEAN WATER FLOW FROM SECTION I REACHES I6. BLOCK INLETS WITH 1" EXTERIOR PLYWOOD HELD IN PLACE WITH STONE OR SAND BAGS.
11. SEDIMENT CONTROL DEVICES WILL BE REPAIRED AFTER STORM DRAIN INSTALLATION SO AS TO BE IN FUNCTIONING CONDITION AT THE END OF EACH DAY.
12. CONSTRUCT ALL UTILITIES AND PAVE ROADS.
13. STABILIZED AND SEED ALL REMAINING DISTURBED AREAS. REMOVE ALL SEDIMENT CONTROL MEASURES AND UNBLOCK INLETS.
14. CONSTRUCT PERMANENT GRADE IN SOUTH DRAINAGE DITCH.

Note: Do not lay top two rows of bricks in inlet rear until sequence of construction note #11.



DETAIL INLET 3
Scale: 1/4" = 1'-0"

SEEDING NOTES (HYDROSEED METHOD ONLY)

1. ALL DISTURBED SLOPE AREAS TO BE STABILIZED AS SOON AS GRADING IS COMPLETED.
2. ALL SEDIMENT CONTROL MEASURES MUST BE CONSTRUCTED AND STABILIZED ACCORDING TO NOTE 4 PRIOR TO ANY OTHER GRADING ON THE SITE.
3. NO TEMPORARY SEDIMENT CONTROL STRUCTURE MAY BE REMOVED OR DESTROYED WITHOUT APPROVAL OF THE HOWARD SOIL CONSERVATION DISTRICT.
4. ALL AREAS OTHER THAN LAWNS TO BE SEEDED (DIKES, TRAPS, DRAINAGE SWALES AND DISTURBED AREAS) AT THE RATE OF 80lbs./ACRE OF THE FOLLOWING: KENTUCKY 31 TALL FESCUE 60lbs./ACRE AND KOREAN LESPEDEZA (SCARIFY AND INOCULATE) 20lbs./ACRE. IMMEDIATELY AFTER CONSTRUCTION. SOW WITH MECHANICAL SPREADER, RAKE MINIMUM TWO (2) PASSES WITH "YORK RAKE" COVER AND COMPACT WITH CULTIPACKER.
5. SURFACE PREPARATION TO INCLUDE GROUND LIMESTONE OVER TOPSOIL SURFACE AREA AND COMMERCIAL FERTILIZER IN ACCORDANCE WITH SOIL TEST ANALYSIS. ANCHOR WITH ASPHALT AT THE RATE OF 480 GALLONS/ACRE: DRAINAGE SWALES AND DITCHES SHALL BE MULCHED AND COVERED WITH PERFORATED EROSION CONTROL BLANKET FOR THE FULL WIDTH OF THE SWALE OR DITCH. BLANKET SHALL BE JUTE MAT OVER STRAW OR EXCELSIOR MATTING. STABILIZATION OF SLOPES STEEPER THAN 3:1 SHALL BE PLANTED WITH KENTUCKY 31 TALL FESCUE 45lb./ACRE AND CROWNVETCH (SCARIFY AND INOCULATE) 15lbs./ACRE. INOCULANT FOR CROWVETCH SHALL BE AT THE RATE OF 6.7 oz. POWDER OR LIQUID CULTURE PER 20lbs. CROWNVETCH.
6. ALL OTHER SURFACE SHALL BE UNIFORMALLY SOWN AT THE RATE OF 250 lbs./ACRE.
7. APPLICATION METHODS: (HYDROSEED)
8. SEED, FERTILIZER, LIMESTONE AND MULCH MATERIAL SHALL BE PLACED BY THE FOLLOWING METHODS:
   (a) THE SEED AND FERTILIZER, OR THE SEED FERTILIZER AND SUITABLE MULCH SHALL BE MIXED IN THE NEEDED AMOUNT OF WATER TO PRODUCE A SLURRY: APPLIED UNDER PRESSURE AT THE RATE SPECIFIED OR AS DIRECTED WITH HYDRAULIC EQUIPMENT APPROVED PRIOR TO USE.
   (b) WOOD CELLULOSE MULCH MAY BE APPLIED DURING OR AFTER SEEDING OPERATION. THE WOOD CELLULOSE MULCH IS TO BE INCORPORATED AS AN INTEGRAL PART OF THE SLURRY MIX, IT SHALL BE ADDED AFTER THE SEED AND FERTILIZER HAVE BEEN THOROUGHLY MIXED. LIME WHEN APPLIED HYDRAULICALLY SHALL BE A SINGLE, SEPARATE OPERATION. WOOD CELLULOSE MULCH SHALL BE APPLIED AT THE RATE OF 1,200 POUNDS PER ACRE.
   (c) ANY AREA INADEQUATELY COVERED SHALL BE RE-TREATED.

TEMPORARY SEEDING

1. THE TOPSOIL STOCKPILES SHALL BE HYDROSEEDED AS FOLLOWS:
   A. GROUND LIMESTONE (50lbs./1000 SF)
   B. FERTILIZER 10-10-10 (25 lbs./1000 SF.)
   C. SEED-ITALIAN RYE GRASS 40 lbs./ACRE.
2. MULCH WITH STRAW AT THE RATE OF 50 LBS./1000 SF. OR ONE TON PER ACRE. ANCHOR WITH ASPHALT AT THE RATE OF 480 GALLONS/ACRE.

CONSTRUCTION SPECIFICATIONS: (SEDIMENT TRAP)

1. AREA UNDER EMBANKMENT SHALL BE CLEARED, GRUBBED AND STRIPPED OF ANY VEGETATION AND ROOT MAT. THE POOL AREA SHALL BE CLEARED.
2. THE FILL MATERIAL FOR THE EMBANKMENT SHALL BE FREE OF ROOTS OR OTHER WOODY VEGETATION AS WELL AS OVER SIZED STONES, ROCKS, ORGANIC MATERIAL OR OTHER OBJECTIONABLE MATERIAL.
3. SEDIMENT SHALL BE REMOVED AND TRAP RESTORED TO ITS ORIGINAL DIMENSIONS WHEN THE SEDIMENT HAS ACCUMULATED TO 1/2 THE DESIGN DEPTH OF THE TRAP. REMOVED SEDIMENT SHALL BE DEPOSITED IN A SUITABLE AREA AND IN SUCH A MANNER THAT IT WILL NOT ERODE.
4. THE STRUCTURE SHALL BE INSPECTED AFTER EACH RAIN AND REPAIRS MADE AS NEEDED.
5. CONSTRUCTION OPERATIONS SHALL BE CARRIED OUT IN SUCH A MANNER THAT EROSION AND WATER POLLUTION IS MINIMIZED.
6. THE STRUCTURE SHALL BE REMOVED AND THE AREA STABILIZED WHEN THE DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.
7. ALL CUT AND FILL SLOPES SHALL BE 2:1 OR FLATTER.
8. THE CRUSHED STONE USED IN THE OUTLET SHALL MEET AASHTO DESIGNATION M43, SIZE NO.2 OR 24 OR ITS EQUIVALENT SUCH AS MSHA NO.2 GRAVEL, MEETING THE ABOVE GRADATION MAY BE USED IF CRUSHED STONE IS NOT AVAILABLE. CRUSHER RUN IS NOT ACCEPTABLE.

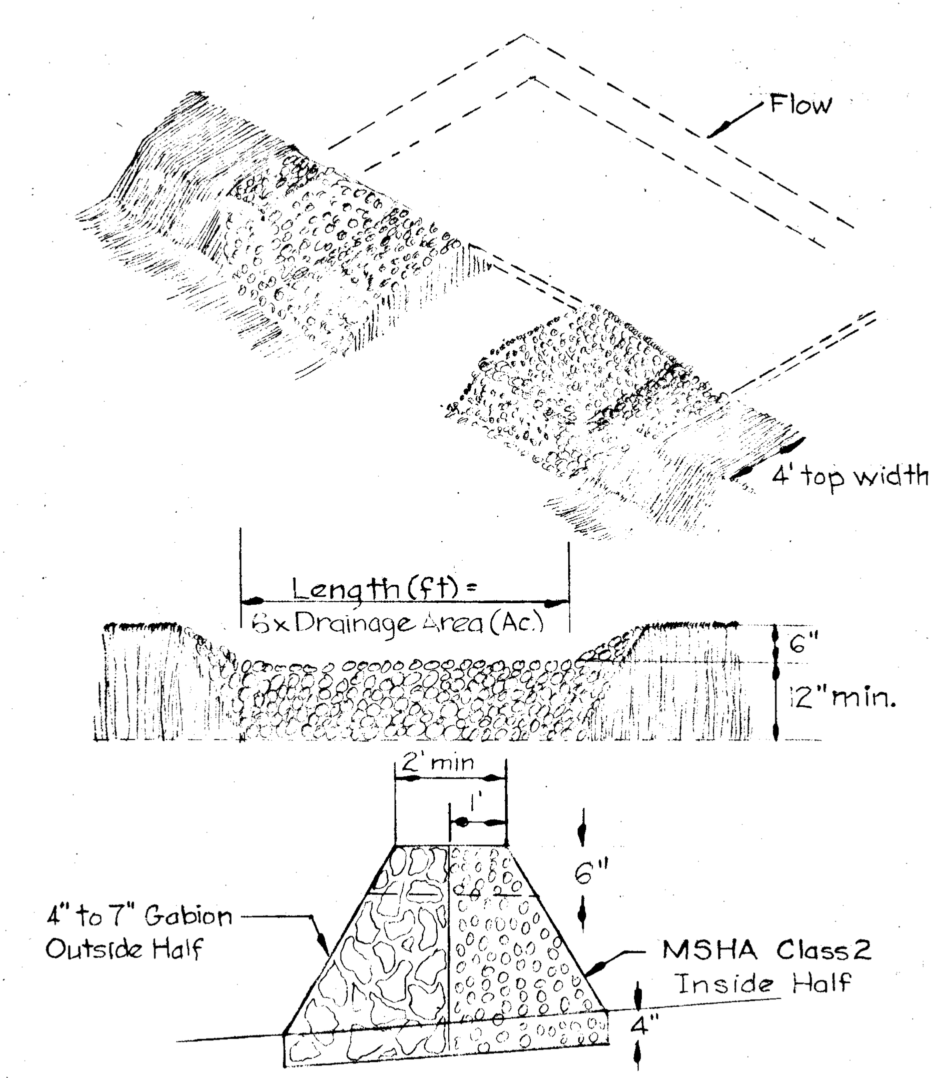
CONSTRUCTION SPECIFICATIONS: (DIVERSION/DIKE/PERIMETER)

1. ALL DIKES SHALL BE MACHINE COMPACTED.
2. ALL DIVERSION DIKES SHALL HAVE POSITIVE DRAINAGE TO AN OUTLET.
3. 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.
4. 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.

CONSTRUCTION SPECIFICATIONS

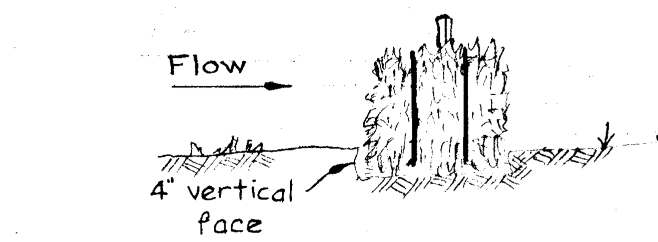
(STABILIZED CONSTRUCTION ENTRANCE)

1. STONE SIZE - USE MSHA SIZE NO.2-½" TO 1") OR AASHTO DESIGNATION M43 SIZE NO.2 (2-½" TO 1-½"). 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 PROPOSED PAVING.
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 WATER-COURSE THROUGH USE OF SAND BAGS, GRAVEL, OR OTHER APPROVED METHODS.
6. 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 CLEAN OUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.

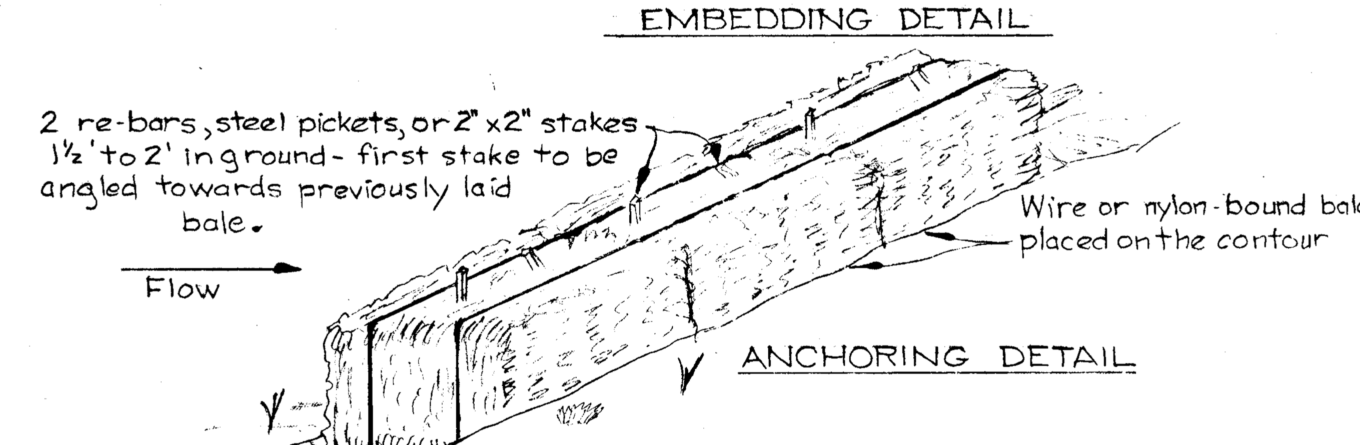


STONE OUTLET STRUCTURE
NOT TO SCALE

DEPARTMENT OF PUBLIC WORKS	
[signature]	7-20-84
Chief, Bureau of Engineering	Date
OFFICE OF PLANNING AND ZONING	
[signature]	7-26-84
Chief, Division of Land Development & Zoning Admin.	Date

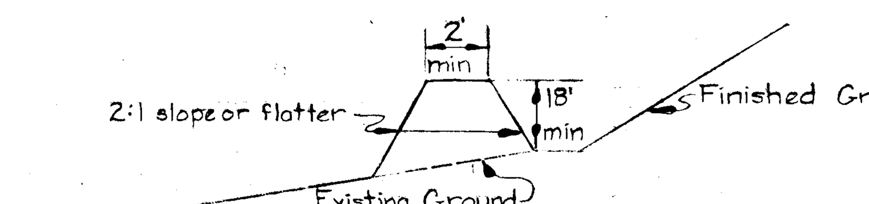


EMBEDDING DETAIL

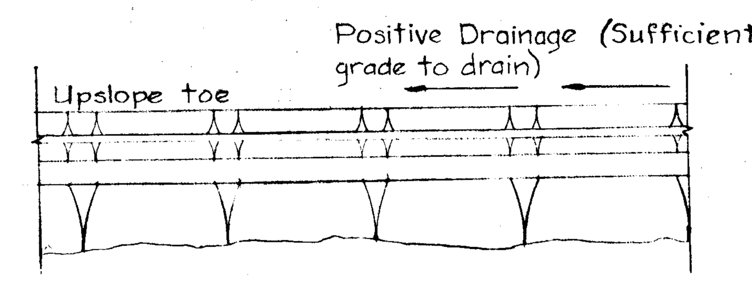


ANCHORING DETAIL

STRAW BALE DIKE
Not to Scale

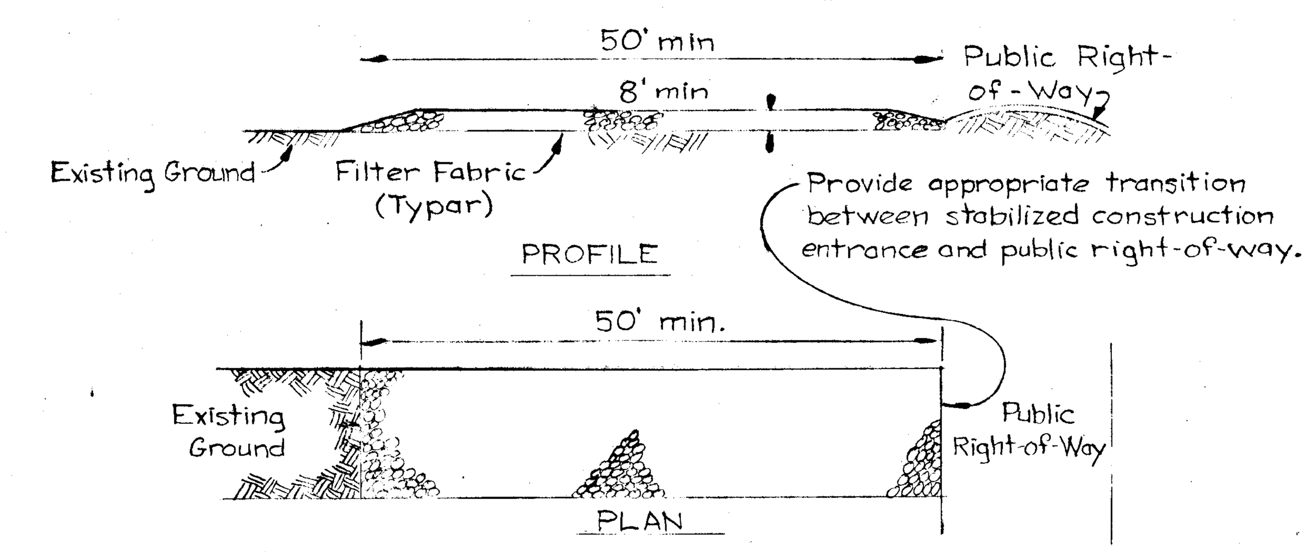


CROSS SECTION



PLAN VIEW

INTERCEPTOR/ PERIMETER/ DIVERSION DIKE
Not to Scale



STABILIZED CONSTRUCTION ENTRANCE
Not to Scale

Reviewed for Howard S.C.D. and meets Technical Requirements

[signature] Date 7-25-84
Signature
U.S. Soil Conservation Service

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

[signature] 7-25-84
Approved Howard S.C.D. Date

WHITMAN, REQUART AND ASSOCIATES
ENGINEERS
2315 SAINT PAUL STREET
BALTIMORE, MARYLAND 21218

[signature]
KENNETH A. McCORD P.E. NO. 1974

CONSTRUCTION SPECIFICATIONS (STRAW BALE DIKE)

1. BALES SHALL BE PLACED IN A ROW WITH ENDS TIGHTLY ABUTTING THE ADJACENT BALES.
2. EACH BALE SHALL BE EMBEDDED IN THE SOIL A MINIMUM OF 4".
3. 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.
4. INSPECTION SHALL BE FREQUENT AND REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
5. BALES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFULNESS SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.

CERTIFICATION OF DEVELOPER

"I certify that all development and/or construction will be done according to this plan of development and plan of 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."

[signature] 4/25/84
Signature of Developer Date

CERTIFICATION OF ENGINEER

"I certify that this plan for Erosion and Sediment Control represents a 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] 7-9-81
Kenneth A. McCord Date

OWNER AND DEVELOPER
SECOND DEEP RUN ASSOCIATES
3701 OLD COURT ROAD, UNIT 11
BALTIMORE, MARYLAND 21208

VILLAGE OF DEEP RUN
SECTION I, AREA II

LOTS A-135 TO A-193
A RESUBDIVISION OF PART OF PARCEL "A"

FIRST ELECTION DISTRICT HOWARD COUNTY, MARYLAND
Scale: As Shown Date: 12-27-83

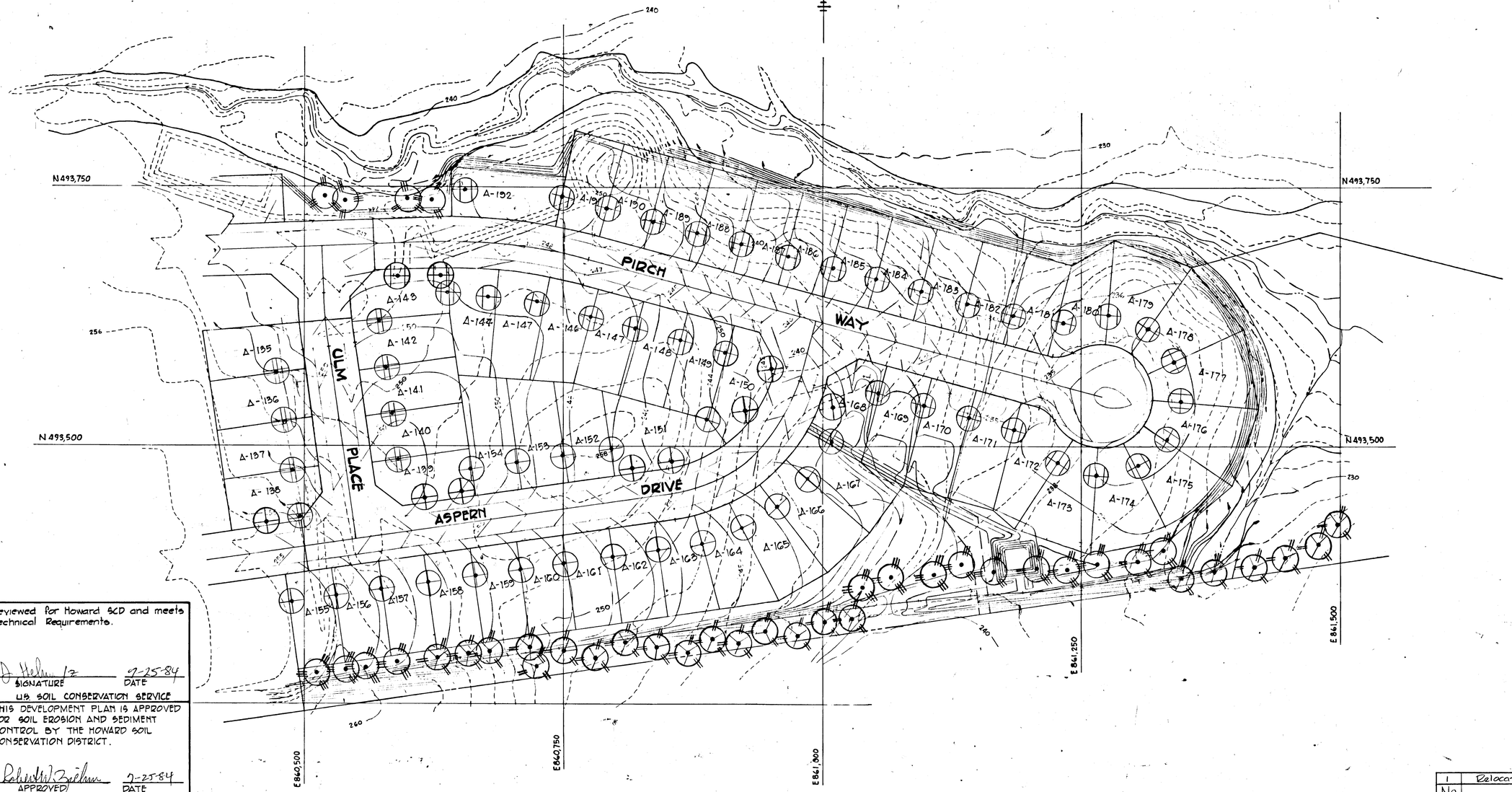
VP-83-110 F-84-100

PLANT LIST			
CODE	NAME	SIZE	QUANT.
⊕	ACER RUBRUM - RED MAPLE	2½" CAL.	25
⊕	FRAXINUS LANCEOLATA - GREEN ASH	2½" CAL.	9
⊕	LIQUIDAMBER STYRACIFLUA - SWEETGUM	2½" CAL.	35
⊗	PINUS STROBUS - WHITE PINE	8'-10'	18
⊗	PINUS THUNBERGII - JAPANESE BLACK PINE	8'-10'	22

PLANTING NOTE:
STREET TREES SHALL BE ADJUSTED AS TO LOCATION BASED ON FIELD CONDITIONS (GRADES, PARKING ETC.)

DEPARTMENT OF PUBLIC WORKS
[signature] 7-20-84
CHIEF, BUREAU OF ENGINEERING DATE

CHIEF OF PLANNING AND ZONING
[signature] 7-26-84
CHIEF DIVISION OF LAND DEVELOPMENT & ZONING ADMIN. DATE



Reviewed for Howard SCD and meets Technical Requirements.

[signature] 7-25-84
SIGNATURE DATE
U.S. SOIL CONSERVATION SERVICE

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

[signature] 7-25-84
APPROVED DATE
HOWARD SCD

#844

WHITMAN, REQUARDT AND ASSOCIATES
ENGINEERS
2315 SAINT PAUL STREET
BALTIMORE, MARYLAND 21218

[signature]
KENNETH A. McCORD P.E. NO. 1974

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[signature]
Kenneth A. McCord Date

OWNER AND DEVELOPER
SECOND DEEP RUN ASSOCIATES
3701 OLD COURT ROAD, UNIT 11
BALTIMORE, MARYLAND 21208

No.	Revision	Date
1	Relocate Street Trees	9-26-86

VILLAGE OF DEEP RUN
SECTION I AREA II

LOTS A-135 TO A-155
A RESUBDIVISION OF PARCEL "A"
LANDSCAPE PLAN

FIRST ELECTION DISTRICT HOWARD COUNTY, MARYLAND
Scale as shown Date: 12-27-83

VP-83-110 F-84-100 SHEET 8 OF 8