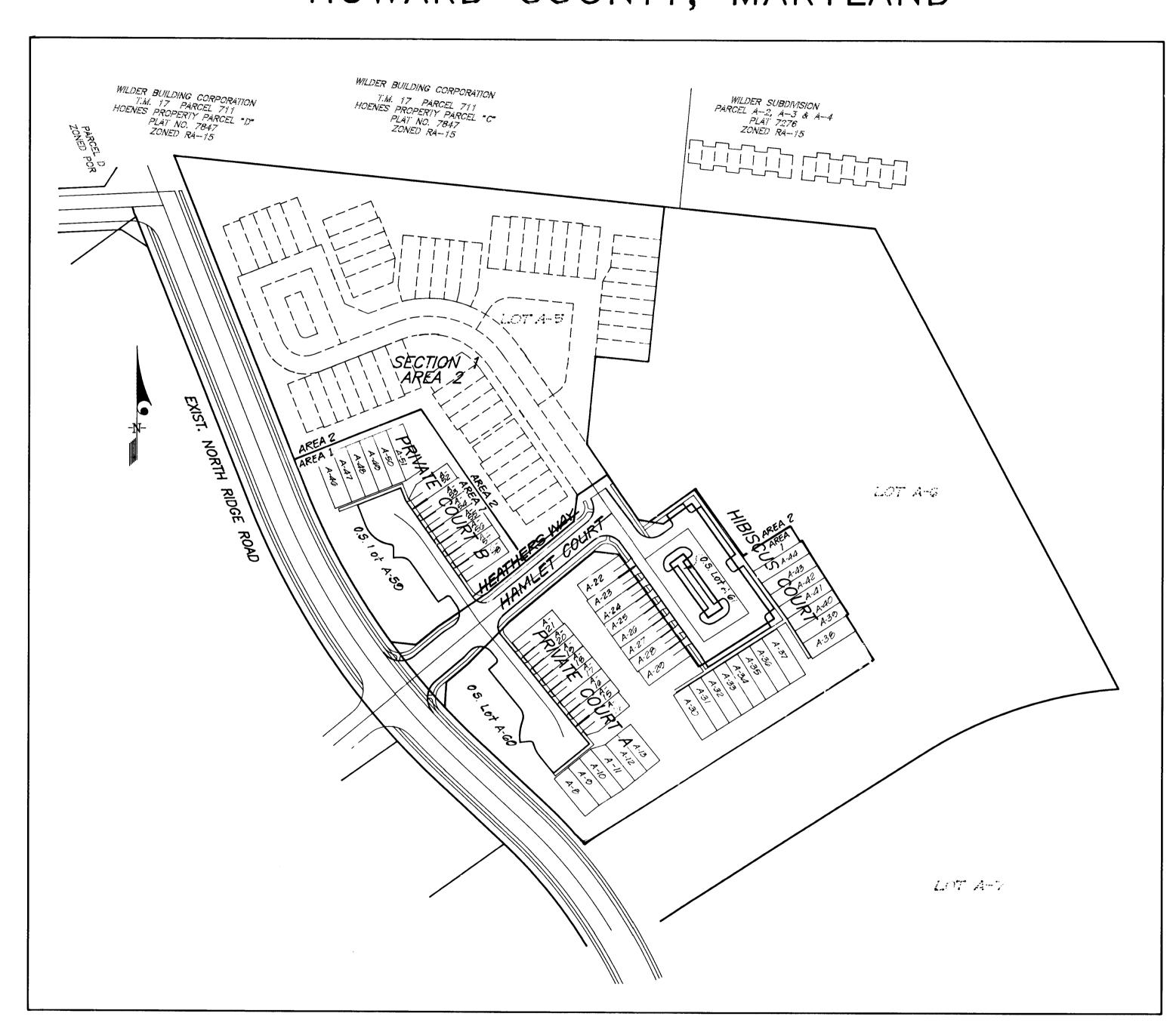
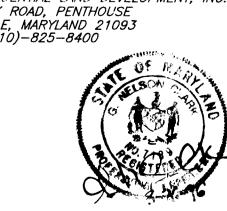
ROAD CONSTRUCTION PLANS HOWARDS RIDGE SECTION 1 AREA 1

SECOND (2nd) ELECTION DISTRICT HOWARD COUNTY, MARYLAND

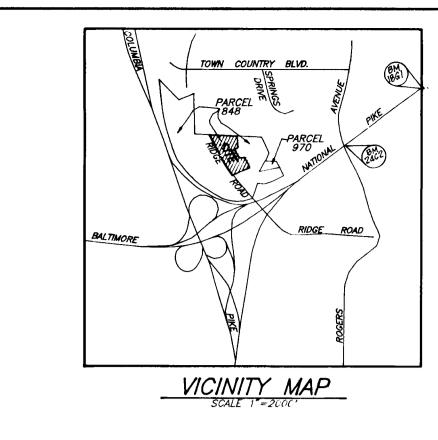


	COVER SHEET		
No. DESCRIPTION			
1	COVER SHEET HAMLET COLIRT		
2	PROFILES - FOR HEATHERO WAY IND PRIVATE COURTS A & B		
3	PROFILE - FOR HIBISCUS COURT		
!	STORM DRAIN PROFILES		
	STORM DRAIN AND PAVING DETAILS		
5	DRAINAGE AREA MAP		
7	SEDIMENT EROSION CONTROL AND GRADING PLAN		
3	SEDIMENT EROSION CONTROL DETAILS		



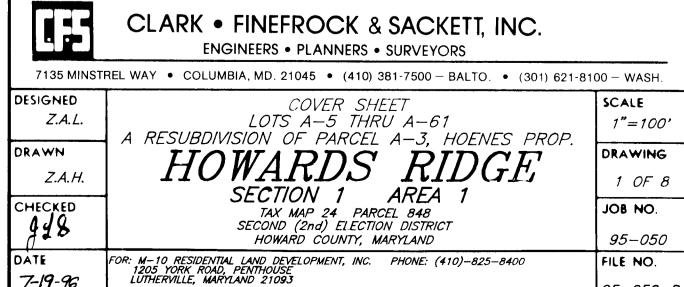


7-19-96



GENERAL NOTES:

- All construction shall be in accordance with the latest standards and specifications of Howard County plus MSHA standards and specifications, if applicable.
- 2. The contractor shall notify the Department of Public Works/Bureau of Engineering, Construction Inspection Division at (410) 313-1870 at least five (5) working days prior to the start of work.
- 3. The contractor shall notify "Miss Utility" at 1-800-257-7777 at least 48 hours prior to any excavation
- 4. Project Background: 21.86 ac. Total Tract Area: Number of Proposed lots: 51 Buildable, 3 Open Space, and 3 non-buildable. Design Speed: 30 MPH (Heathers Way), 25 MPH
- (Hibiscus Court) Date Preliminary Plan approved and DPZ Reference file#: October 12, 1995 SP-96-01.
- 6. Topography, at 2' intervals is based on the mass grading shown on SDP-96-01, abrial survey dated Oct. 1986 and by Howard County 200 scale topography maps.
- 7. Public water and sewer is to be utilized. Contract number for F-96-01 is 14-3453, site drainage area is the
- 8. All utilities shown were compiled from available records.
- Street trees in accordance with Subdivision and Land Development Regulations, Section 16.124.
- 10. A wetland study was performed by Reimer, Muegge & Associates Inc. on November, 1993 per P-95-21.
- 12. Sag and Crest Vertical Curves were designed in
- accordance with Howard County Design Manual Vol. III. 13. Trench compaction for storm drains within the road or street rights of way limits shall be in accordance with
- Howard County Design Manual Vol. IV, Std. No. G-2.01. 14. Storm Water Management is provided off-site for quality and quantity control in the Extended Detention SWM Facility approved under SDP-96-01. The SWM Facility will be privately maintained.
- 15. See previous county files S-95-01, ZB-941, Dated 10-18-93. F-85-57, P-95-21, F-96-01, SP-96-01.
- 16. APFO study as previously submitted and approved under
- 17. Traffic study prepared for the site by the Traffic Group, Inc., Dated October 19, 1995, Per 5-95-01.
- 18. Geotechnical report by Hillis Carnes, Inc. dated 11-15-94. Addendum dated 5-26-95. Approved 6-23-95.
- 19. Coordinates based on NAD '83 Maryland Coordinate System as projected by Howard County Geodetic Control
 - No. 18G1 Elev. 408.54 No. 24C2 Elev. 354.93
- 20. Street lights will be required in this development in accordance with the Design Manual. Street light placement and the type of fixture and pole selected shall be in accordance with the latest Howard County Design Manual, Volume III (1993) and as modified by "Guidelines for Street Lights in Residential Developments (June 1993). The June 1993 policy includes guidelines for lateral and longitudinal placement. A minimum spacing of 20' shall be maintained between any street light and any tree.
- 21. All fillet radii are 5 ft. unless indicated otherwise.
- 22. Provide Handicap Ramps where shown in plan. See Howard County Std. Detail R-4.01, R-4.02, and R-4.03.
- 23. See sheet 5 for planting details and bonding requirements



STREET NAME

HAMLET COURT

ama Duinnani

CHIEF, DEVELOPMENT ENGINEERING DIVISION

NORTH RIDGE ROAD

HEATHERS WAY

HIBISCUS COURT

HIBISCUS COURT

STREET LIGHT SUMMARY TABLE

LIGHT TYPE

GALVANIZED STEEL POLE

FIBERGLASS POLE.

8-14-96

150-WATT HPS VAPOR PENDANT FIXTURE

100-WATT "TRADITIONAIRE" HPS VAPOR

POST TOP FIXTURE ON A 14 FOOT BLACK

(CUT OFF) MOUNTED ON A 30 FOOT

STATION/LOCATION

9+90, 26' RT

1+8**4,** 1**5**' LT

3+64, 17' LT

0+21, 22' RT

1+96. 22' RT

HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING

CHEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH

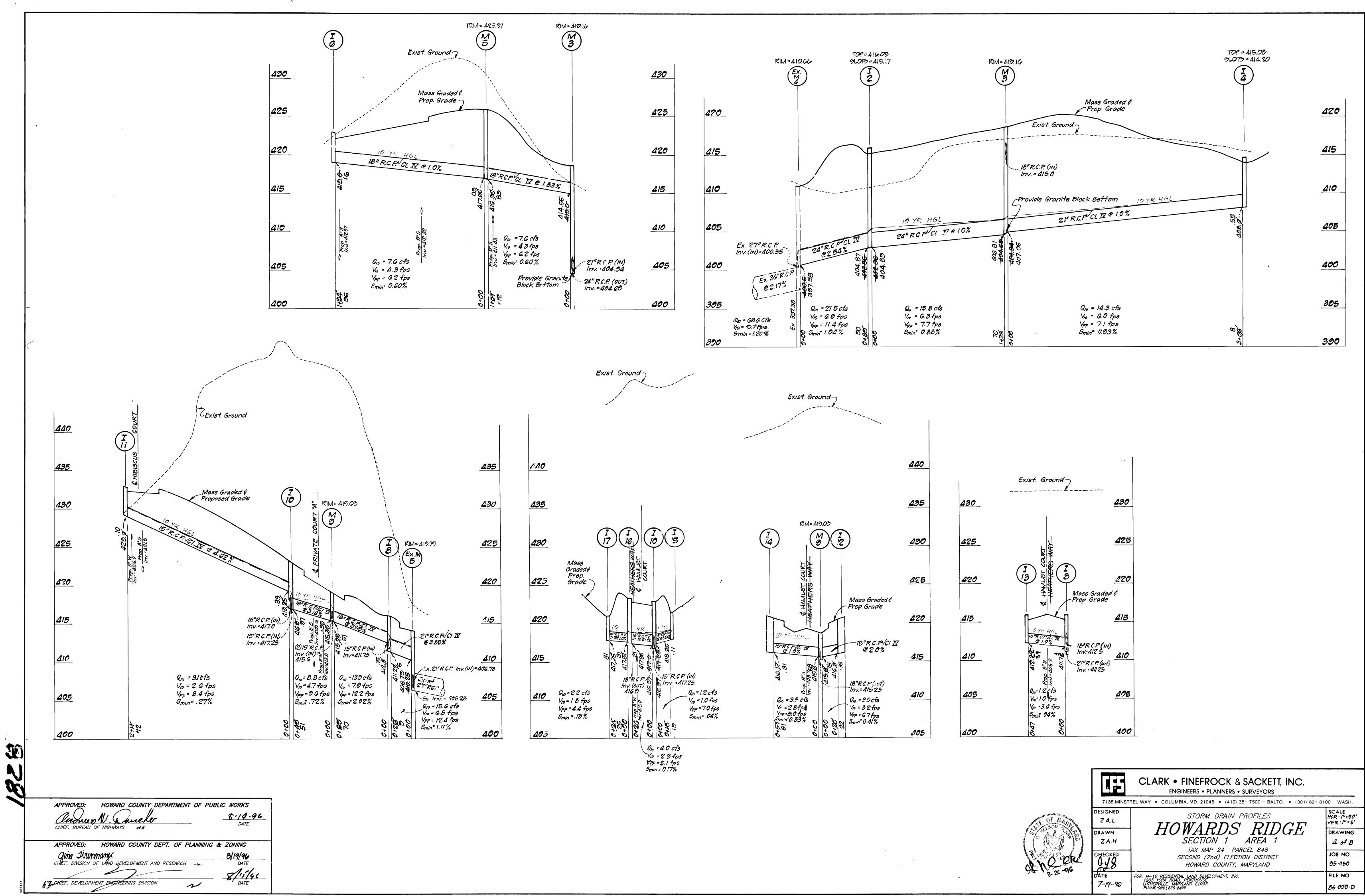
N

95-050-D

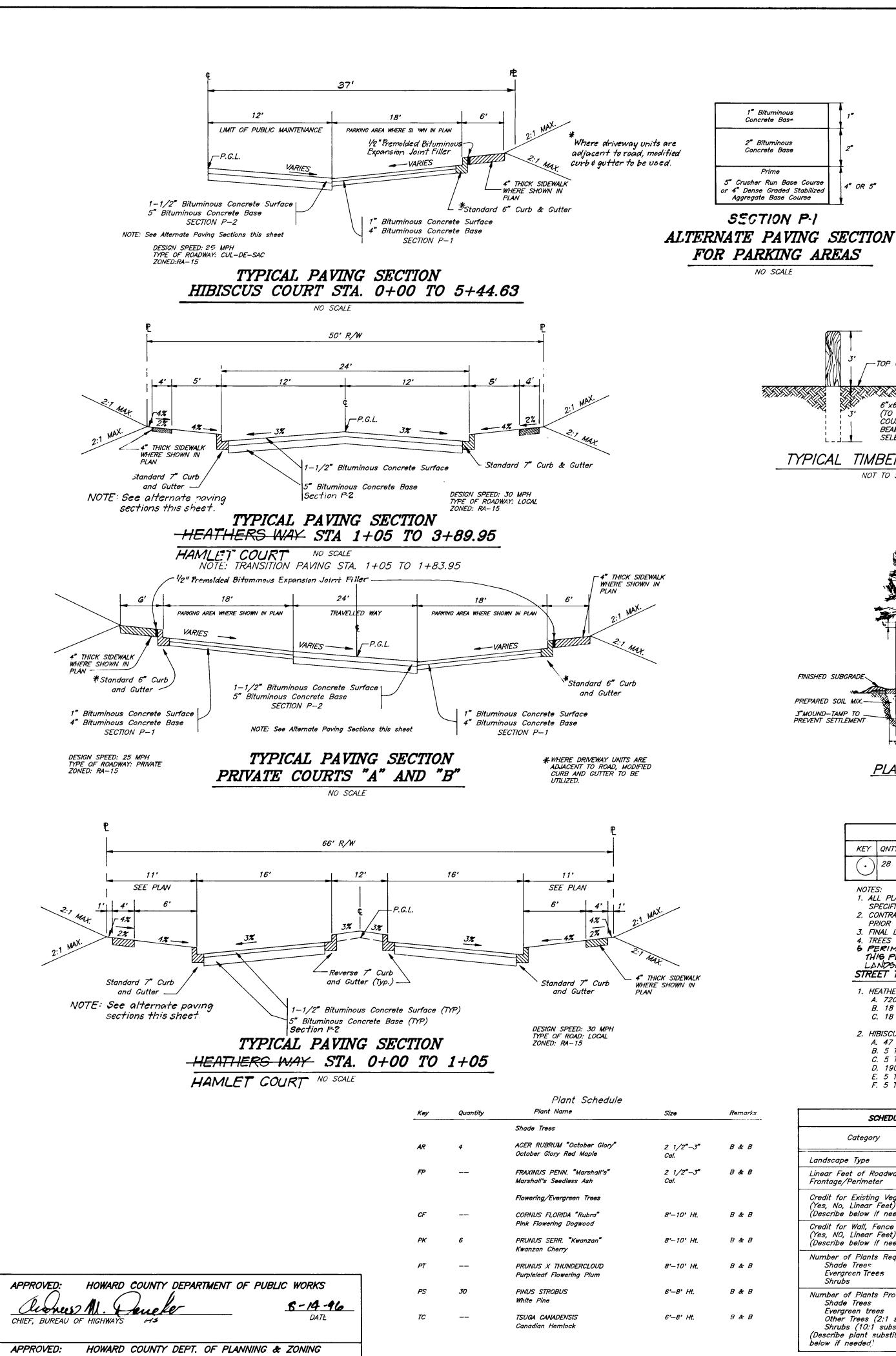
CURB & GUTTER LEGEND Modified Combination Curb & Gutter -Standard 7" Combination Curb & Gutter _____ Reversed 7" Combination Curb & Gutter Standard G" Combination Curb & Gutter -Reversed G" Combination Curb & Gutter STREET LIGHT LEGEND 150 Watt HPS Vaper Pendant Fixture (cutoff) mounted on a 30' galvanized steel pole. * 100 Watt "Traditionaire" HPS Vapor Post top fixture on a 14' black fiberglass pole. See sheet 5 of 8 for street tree details. APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS 8-14-96 APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING 8/19/96 CHEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH AS CHIEF, DEVELOPMENT ENGINEERING DIVISION CLARK • FINEFROCK & SACKETT, INC. ENGINEERS • PLANNERS • SURVEYORS ESIGNED SCALE FOR HEATHERS WAY AND PRIVATE COURTS A & B AS SHOWN WARDS RIDGE SECTION 1 AREA 1 TAX MAP 24 PARCEL 848 DRAWN DRAWING A-30 A31 A-32 A-33 A-34 A-35 A-30 A-37 + = REC (CFG) UNLEGS NOTED OTHERWISE 2 OF 8 = CONCRETE MONUMENT SET JOB NO SECOND (2nd) ELECTION DISTRICT CENTERLINE CURVE DATA FOR PRIVATE COURTS A & B HOWARD COUNTY, MARYLAND *95* -*050*
 F.C. sta to P.T. sta.
 Radius
 Delta
 Arc
 Tan.
 Chord
 Bearing

 1+47.43 to 1+95.15
 125.0'
 21°52'20"
 47.72'
 24.16
 47.43
 \$ 28° 22'

 1+39.02 to 1+92.27
 125.0'
 24°24'33°
 53.25'
 27.04
 52.85
 N 47° 0'
 95-050-D HEATHERS WAY HAMLET COURT PROFILE PRIVATE COURT A & B - PROFILE HOR : 1" =50' VER : 1" = 5' PROFILE SCALES DESIGN SPEED-30 MPH 450 450 45' Left 45' Right Exist. Ground @ E MON. #47 \$LEV, A16.54 Exist. Ground & & 445 445 HAMLET COURT 440 440 100' V.G. PRIVATE COURT "B" PRIVATE COURT "A"_ e=0.35' 650=334.7' MON, #47 NOT TO SCALE 435 45' BR.L. Left 435 13.98% 43% 45' BRL Right Mass Graded and Proposed Grade per SDP-96-01. 430 430 HOLON SURT 100' V.C. 6= .37 HSO=340' MON, #50 ELEV. AM.50 425 Mass Graded & Proposed Grade per SDP-96-01 425 8/200 120 HAMLET COURT MON, #50 415 NOT TO SCALE 60 4.84 410 410 +50 1+00 +50 4+00 1+00 +50 3+00 +50 1+00 2+00 2+00 0+00 150 150 +50

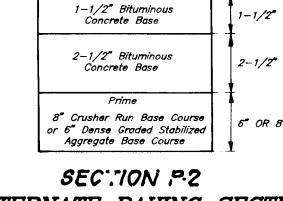


F-96-137 AS-BUILT

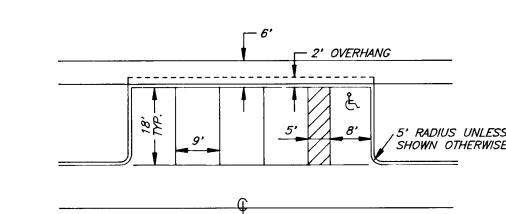


CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH

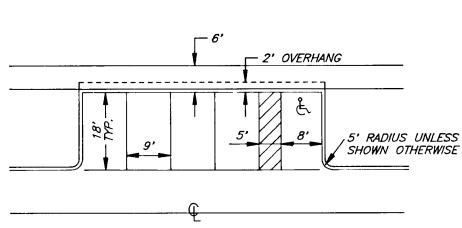
CHIEF, DEVELOPMENT ENGINEERING DIVISION



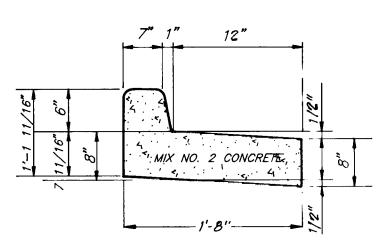
ALTERNATE PAVING SECTION FOR PUBLIC ROADS NO SCALE



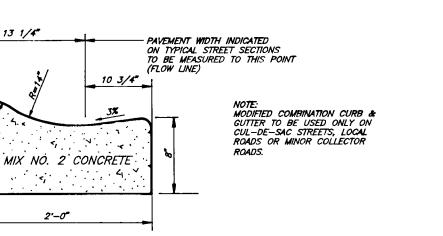
TYPICAL PARKING DETAIL NO SCALE



STANDARD 6" COMBINATION CURB AND GUTTER NO SCALE



REVERSE 6" COMBINATION CURB AND GUTTER NO SCALE



MODIFIED COMBINATION CURB AND GUTTER

NO SCALE

BONDING NOTE:

THIS PLAN HAS BEEN PREPARED IN ACCORDANCE

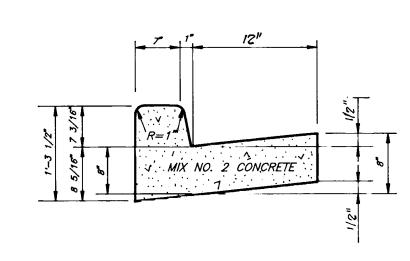
WITH THE PROVISIONS OF SECTION 16.124 OF THE HOWARD COUNTY CODE AND LANDSCAPE MANUAL.

FINANCIAL SURETY FOR THE PERIMETER

\$3300.00 SHALL BE PART OF THE DEVELOPERS

TREES IN SCHEDULE A IN THE AMOUNT OF

AGREEMENT.



NO SCALE

STANDARD 7" COMBINATION CURB AND GUTTER

REVERSE 7" COMBINATION CURB AND GUTTER

MIX NO. 2 CONCRETE,

NO SCALE

	1/2" DIA. RUBBER HOSE DOUBLE STRAND OF 10 GA.
FINISHED SUBGRADE	WIRE TWISTED TOGETHER 2"X 2"X 8" WOOD STAKES PROVIDE 2 STAKES. PLACE AT EQUAL INTERVALS AROUND TREE. DRIVE STAKES INTO SUBGRADE. DO NOT STIKE ROOT BALL. 4" MULCH LAYER BURLAP TO REMAIN FOLD TOP BACK 4" SOIL SAUC::P
PREPARED SOIL MIX. 3"MOUND-TAMP TO PREVENT SETTLEMENT	EXISITING SUBGRADE APPROX.12" PLANTING DETAIL NO SCALE

-TOP OF GROUND

TYPICAL TIMBER BOLLARD

NOT TO SCALE

6"x6" (MIN.) UNTREATED TIMBER POST

6 X6 (MIN.) UNITED TIMBER PUST (TO MEET REQUIREMENTS IN HOWARD COUNTY SPECS.) OR W6X9 HOT GALVANIZED BEAM AS ALTERNATE IF SPECIFIED OR SELECTED BY THE CONTRACTOR.

PLANT LIST					
KEY	QNTY.	PLANT NAME	SIZE	REMARKS	
$\overline{(\cdot)}$	28	ACER RUBRUM "Red Sunset" Red Sunset Maple	2 1/2" CAL	B & B	

1. ALL PLANTING SHALL BE DONE IN ACCORDANCE WITH THE BALT./WASH. SPECIFICATIONS OF L.C.A.M.W.

2. CONTRACTOR SHALL VERIFY LOCATION OF ALL UNDERGROUND UTILITIES

3. FINAL LOCATION OF PLANT MATERIAL MAY VARY PER FINAL FIELD CONDITIONS. 4. TREES SHOWN ON NORTH RIDGE WERE TAKEN FROM F-96-01. 5 PERIMETER LANDSCAPE EDGE & STREET TREES ARE PLANTED PER THIS PLAN. SEE SOP - 90-131 FOR INTERNAL PARKING LOT & RESILVENTIAL

STREET TREE TABULATION (Bonded as part of the final construction cost estimate.)

A. 720 L.F. OF RIGHT-OF-WAY. B. 18 TREES REQUIRED (1 TREE/ 40 LF) C. 18 TREES PROVIDED

2. HIBISCUS COURT

A. 47 PARKING SPACES B. 5 TREES REQUIRED (1 TREE/ 10 PARKING SPACES) C. 5 TREES PROVIDED

D. 190 LF OF RIGHT OF WAY

E. 5 TREES REQUIRED (1 TREE/40 LF) F. 5 TREES PROVIDED

SCHEDULE A PERIMETER LANDSCAPE EDGE		
Category	Adjacent to Roadways	Adjacent to Perimeter Properties
Landscape Type	С	E
Linear Feet of Roadway Frontage/Perimeter	180' T.H. Frontage	420' parking
Credit for Existing Vegetation (Yes, No, Linear Feet) (Describe below if needed)	_	-
Credit for Wall, Fence or Berm (Yes, NO, Linear Feet) (Describe below if needed)	_	_
Number of Plants Required Shade Trees Evergreen Trees Shrubs	4 (1/40) 9 (1/20)	10 (1/40) * 105 (1/4)
Number of Plants Provided Shade Trees Evergreen trees Other Trees (2:1 substitution) Shrubs (10:1 substitution) (Describe plant substitution credits below if needed)	4 9	* 20 6 2 \$1 eV

Comments: * THE 10 EVERGREEN TREES SUBSTITUTED FOR THE 105 SHRUBS ARE INCLUDED IN THE BOND TOTAL

1			STRL	ICTURE SCHEDULE	
	Nº	TYPE	INV IN	ERT TOP ELEVATION REMARKS	LOCATION
×ſ	I-2	"D" Inlet 2'-6" Sq. 404.87	402.36	402 80 * Top = 416,0 Slot = 415,2 Ho. Co. Std. SO 4.11	See Pion
- 1	M-3	Standard Manhole 4'-0" Dia.	404.34	404.697.06 418.70.16 Ho. Co. Std. G. 5.12	See Plan
ľ	I-4	"D" Inlet 2'-G" Sq.	6.81	408.8.55Top=414.835101=414.0 Ho. Go. Std. SD 4.11	See Plan
	5 M4	Existing Manhole 397.58	400.6	397.35/ -5.08 - 20 _	See Plan
		Standard Manhole 4'-0" Dia.		416.9889 426.0-5.37 Ho. Co. Std. G 5.12	See Plan
	x.M-5	Existing Manhole		406.25.79 - 26 -3.09 -	Sec Plan
Ī	I-G	A-10 Inlet	-	419,0.16 423.16 422.80 Ho. Co. Std. SD 4.41	See Plan
* [I-8	A-10 Inlet 411.75	412.5	411.25.73 416.01 415.01.59 to Co. Std. SD 4.41	Esta 0+56.43 Heathers Way, 2284 RF.C.
*	M-9	Shallow Precast Manhole 4'-0"Dia.		415.25.68 08 3.05 Ho. Co. Std. G 5.12	Esta. 1 37.0 Heathers Way, 10'Rt Estr.
×	I-10	A-5 Inlet 416.97		416,9 97 423,2846422.94 Ho. Co. Std. SD 4.40	Esta. 1+86.71 Heathers Way, 12'R+-R.F.C.
	I -//	A-10 Inlet	; -	429.0.10 432.723.00433.09 ²⁵ Ho. Co Std. SO 4.41	Esta 5+00 Hibiscus Ct. 13'Rt - L.E.C.
Ī	1-12	A-10 Inlet	<u> </u>	416,0.16 420,8140 420,55,20Ho. Co. Std. SD 4.41	Esta 0+42.62 Prvt. Ct A, 12 Rt - REC.
I	I-13	A-10 Inlet		412.0 39 416.01.39 415.81 84 Ho. Co. Std. SO 4.41	& sta. 0+5G.43 Heathers Way, 222t. Estr.
	I-14	A-10 Inlet	_	410,77.31 421.01.09 420.782 Ho. Co. Std. SD 4.41	\$5ta. 0+30.2 Arvt. Ct. B, 121t. LEC.
	7-15	Yard Inlet 24" Dia.	-	418.25.11 421.0-420.89 Ho. Co. Std. SD 4.14	Esta 1+92,40'Rt, Heathers Way & str.
× [1-16	A-10 Inlet	417.31	417.2521 423.9491 423 16 V Ho Co. Std. 50 4 41	Ésta. 1+89.98 Heathers Way 12kT L.F.C.
	I-17	Yard Inlet 24" Dia.	-	417.7881 421.0.16 Ho. Co. Std. SD 4.14	Estr. 1+88 40'Lt Heathers Way

*Inlets to be fully developed ** SEE PROPILES FOR INMERTS

PIPE SCHEDULE			
LENGT	TYPE	5/Z E	
377 LF	R.C.P. Cl. IV	15"	
445 LF	R.G.P. CI IX	18"	
332 L	RCP CI IV	21"	
ZGZ LF	P.C.P. GI. IV	24"	

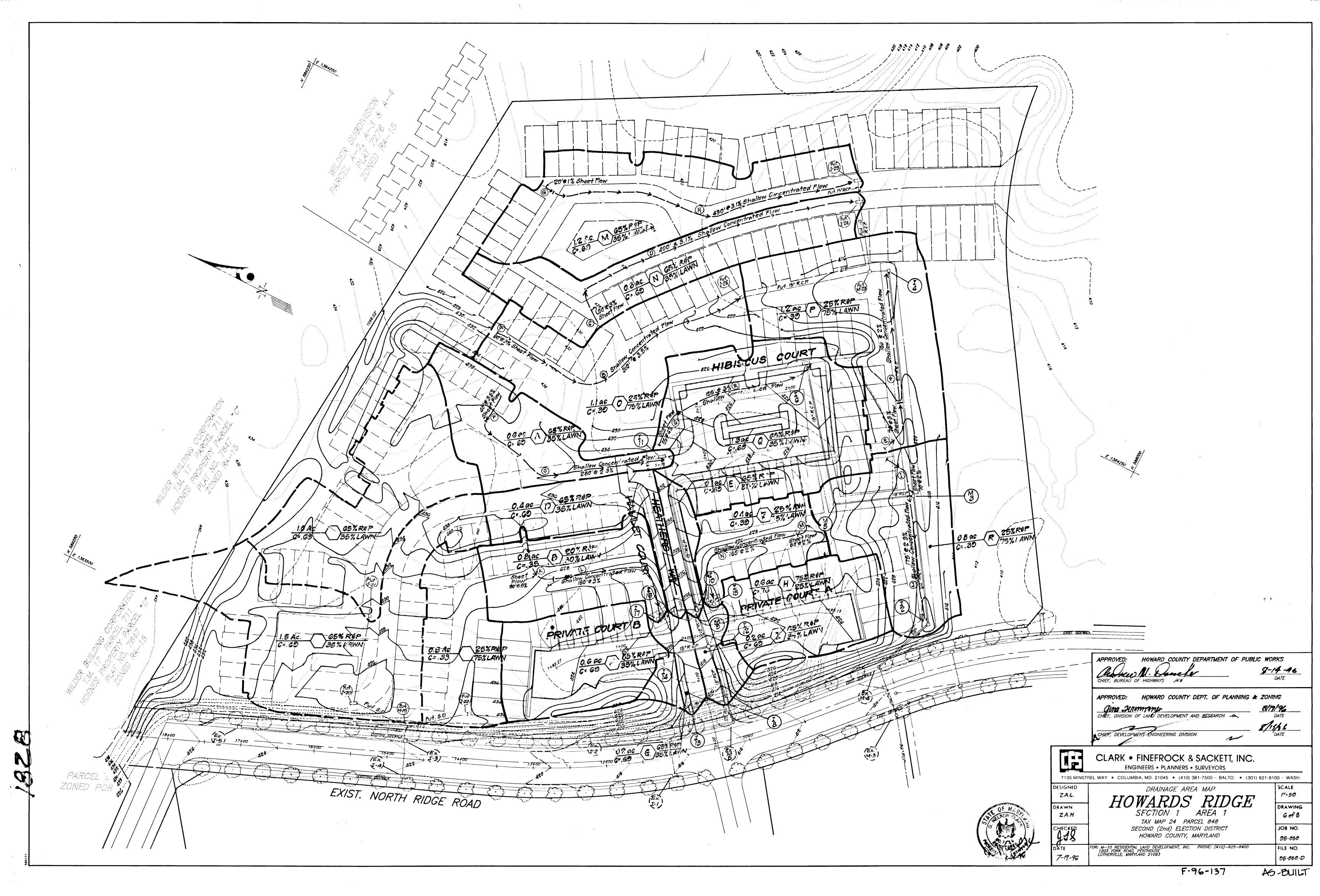
CLARK • FINEFROCK & SACKETT, INC. ENGINEERS • PLANNERS • SURVEYORS						
7135 MINSTR	REL WAY • COLUMBIA, MD. 21045 • (410) 381-7500 — BALTO. • (301) 62					
DESIGNED	STORM DRAIN AND PAVING DETAILS					

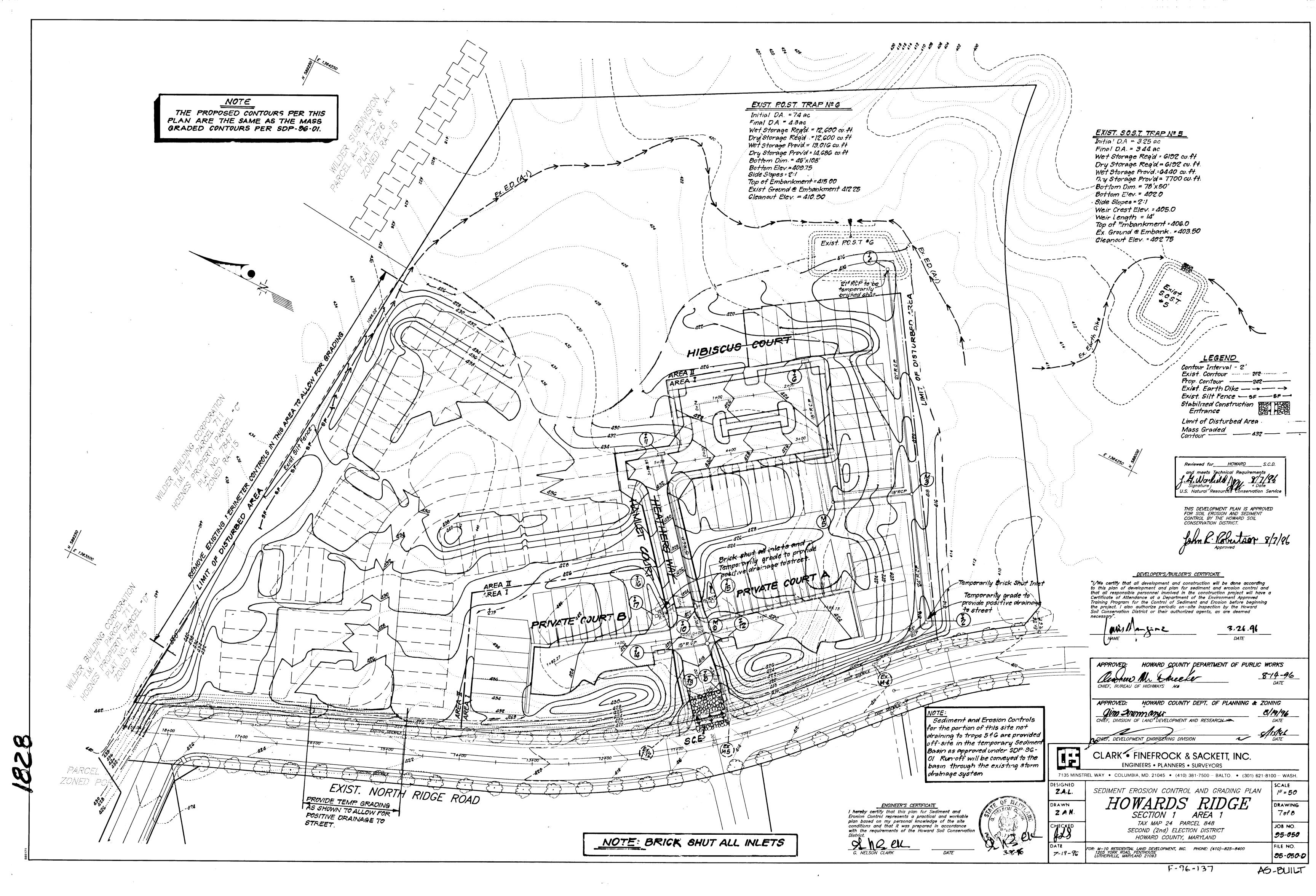
LUTHERVILLE, MARYLAND 21093 PHONE (476) 365-8400

		EINGINEERS - FLAMMERS - SURVETORS			
	7135 MINSTREL WAY • COLUMBIA, MD. 21045 • (410) 381-7500 — BALTO. • (301) 621-8100 — WASH.				
	DESIGNED	STORM DRAIN AND PAVING DETAILS	SCALE		
Company of the Compan	Z.A.L.	HOWARDS RIDGE	AS SHOWN		
	DRAWN		DRAWING		
	Z.A.L.	SECTION 1 AREA 1	5 of 8		
	CHECKED	TAX MAP 24 PARCEL 848 SECOND (2nd) ELECTION DISTRICT	JOB NO.		
	928	HOWARD COUNTY, MARYLAND	95050		
	DATE	FOR: M-10 RESIDENTIAL LAND DEVELOPMENT INC. 1205 YORK ROAD, PENTHOUSE	FILE NO.		

F-96-137 AG-BUILT

95-050 **0**





21.0 STANDARD AND SPECIFICATIONS

TOPSOIL

Definition

Placement of topsoil over a prepared subsoil prior to establishment of permanent vegetation.

<u>Purpose</u>

To provide a suitable soil medium for vegetable growth. Soils of concern have low moisture content, low nutrient levels, low pH, materials toxic to plants, and/or unacceptable soil gradation.

Conditions Where Practice Applies

This practice is limited to areas having 2:1 or flatter slopes where:

a. The texture of the exposed subsoil/parent material is not adequate to produce vegetative growth.

b. The soil material is so shallow that the rooting zone is not deep enough to support plants or furnish continuing supplies of moisture and plant nutrients.

c. The original soil to be vegetated contains material toxic to plant growth.

d. The soil is so acidic that treatment with limestone is not feasible.

II. For the purpose of these Standards and Specifications, areas having slopes steeper than 2:1 require special consideration and design for adequate stabilization. Areas having slopes steeper than 2:1 shall have the appropriate stabilization shown on the plans.

Construction and Material Specifications

Topsoil salvaged from the existing site may be used provided that it meets the standards as set forth in these specifications. Typically, the depth of topsoil to be salvaged for a given soil type can be found in the representative soil profile section in the Soil Survey published by USDA-SCS in cooperation with Maryland Agricultural Experimental Station.

II. Topsoil Specifications — Soil to be used as topsoil must meet the following:

i. Topsoil shall be a loam, sandy loam, clay loam, silt loam, sandy clay loam, loamy sand. Other soils may be used if recommended by an agronomist or a soil scientist and approved by the appropriate approval authority. Regardless, topsoil shall not be a mixture of contrasting textured subsoils and shall contain less than 5% by volume of cinders, stones, slag, coarse fragments, gravel, sticks, roots, trash, or other materials larger that 1 and 1/2" in

ii. Topsoil must be free of plants or plant parts such as Bermuda grass, quackgrass, Johnsongrass, nutsedge, poison ivy, thistle, or others as specified.

iii. Where the subsoil is either highly acidic or composed of heavy clays, ground limestone shall be spread at the rate of 4-8 tons/acre (200-400 pounds per 1,000 square feet) prior to the placement of topsoil. Lime shall be distributed uniformly over designated areas and worked into the soil in conjunction with tillage operations as described in the following procedures.

II. For sites having disturbed areas under 5 acres:

i. Place topsoil (if required) and apply soil amendments as specified in 20.0 Vegetative Stabilization -Section I - Vegetative Stabilization Methods and Materials.

V. Topsoil Application

i. When topsoiling, maintain needed erosion and sediment control practices such as diversions, Grade Stabilization Structures, Earth Dikes, Slope Silt Fence and Sediment Traps and Basins.

ii. Grades on the areas to be topsoiled, which have been previously established, shall be maintained, albeit 4" 8" higher in elevation.

iii. Topsoii shall be uniformly distributed in a 4" -8" layer and lightly compacted to a minimum thickness of 4". Spreading shall be performed in such a manner that sodding or seeding can proceed with a minimum of additional soil preparation and tillage. Any irregularities in the surface resulting from topsoiling or other operations shall be corrected in order to prevent the formation of depressions or water pockets.

iv. Topsoil shall not be place while the topsoil or subsoil is in a frozen or muddy condition, when the subsoil is excessively wet or in a condition that may otherwise be detrimental to proper grading and seedbed preparation.

PERMANENT SEEDING NOTES

APPLY TO GRADED OR CLEARED AREAS NOT SUBJECT TO IMMEDIATE FURTHER DISTURBANCE WHERE A PERMANENT LONG-LIVED VEGETATIVE

SEEDBED PREPARATION: Loosen upper three inches of soil by raking, discing or other acceptable means before seeding, if not previously

SOIL AMENDMENTS: In lieu of soil test recommendations, use one of the following schedules:

1) Preferred-Apply 2 tons per acre dolomitic limestone (92 lbs/ 100 sq.ft.) and 600 lbs per acre 10-10-10 fertilizer (14 lbs./ 1000 sq.ft.) before seeding. Harrow or disc into upper three inches of soil. At the time of seeding, apply 400 lbs. per acre 30-0-0 ureaform fertilizer (9 lbs/1000 sq.ft.)

2) Acceptable—Apply 2 tons per acre dolomatic limestone (92 lbs/ 1000 sq.ft.) and apply 1000 lbs. per acre 10-10-10- fertilizer (23 lbs./1000 sq.ft.) before seeding. Harrow or disc into upper three inches of soil.

SEEDING: For the periods March 1 thru April 30, and August 1 thru October 15, seed with 60 lbs. per acre (1.4 lbs/1000 sq.ft.) of Kentucky 31 Tall Fescue. For the period May 1 thru July 31, seed with 60 lbs. Kentucky 31 Tall Fescue per acre and 2 lbs. per acre (.05 lbs./1000 sq.ft.) of weeping lovegrass. During the period of October 16 thru February 28, protect site by: Option (1) 2 tons per acre well anchored straw mulch and seed as soon as possible in the spring. Option (2) Use sod. Option (3) Seed with 60 lbs/acre Kentucky 31 Tall Fescue and mulch with 2 tons/acre well anchored

MULCHING: Apply 1 1/2 to 2 tons per acre (70 to 90 lbs/1000 sq. ft.) of unrotted small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gallons per acre (5 gal/1000 sq.ft.) of emulsified asphalt on flat areas. On slopes 8 feet or higher, use 348 gallons per acre (8 gal/1000 sq.ft.) for anchoring.

MAINTENANCE: Inspect all seeded areas and make needed repairs, replacements and reseedings.

TEMPORARY SEEDING NOTES

SEEDBED PREPARATION: Loosen upper three inches of soil by raking, discing or other acceptable means before seeding, if not previously

SOIL AMENDMENTS: Apply 600 lbs. per acre 10-10-10 fertilizer (14 lbs./1000 sq.ft).

SEEDING: For periods March 1 thru April 30 and from August 15 thru November 15, seed with 2 1/2 bushel per acre of annual rye (3.2) Ibs./1000 sq.ft.) For the period May 1 thru August 14, seed with 3 lbs. per acre of weeping lovegrass (.07 lbs./1000 sa.ft.). For the period November 1 thru February 28, protect site by applying 2 tons per acre of well anchored straw mulch and seed as soon as possible in the spring, or use sod.

MULCHING: Apply 1 1/2 to 2 tons per acre (70 to 90 lbs./1000 sq.ft.) of unrotted small grain straw immediately after seeding. Anchor mulch immediately after application usina mulch anchorina tool or 218 gallons per acre (5 gal/1000 sq.ft.) of emulsified asphalt on flat areas. On slopes 8 feet or higher, use 348 gallons per acre (8 gal/1000 sq.ft.) for anchoring.

REFER TO THE 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR RATE AND METHODS NOT

SEDIMENT AND EROSION CONTROL NOTES

- 1. 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. (313-1855).
- 2. All vegetative and structural practices are to be installed according to the provisions of this plan and are to be in conformance with the 1994 MARYLAND STANDARDS AND SPECS. FOR SOIL EROSION AND SEDIMENT CONTROL.
- 3. Following initial soil disturbance or redisturbance, permanent or temporary stabilization shall be completed within: a) 7 calendar days for all perimeter sediment control stuctures, dikes, perimeter slopes and all slopes greater than 3:1 b) 14 days as to all other disturbed or graded areas on the
- 4. All sediment traps/basins shown must be fenced and warning signs posted around their perimeters in accordance with Vol.1. Chapter 12, of the HOWARD COUNTY DESIGN MANUAL, Storm

project site.

- 5. All disturbed areas must be stabilized within the time period specified above, in accordance with the 1994 MARYLAND STAND-ARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for permanent seedings (Sec. 51), sod (Sec. 54), temporary seedings (Sec. 50) and mulching (Sec 52). Temporary stabilization with mulch alone can only be done wher recommended seeding dates do not allow for proper germination and establishment of grasses.
- 6. 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. 7. SITE ANALYSIS:

Total Area of Site:	?1.86 ac
Area Disturbed:	12.0 Ac
Area to be roofed or paved:	1.4 Ac
Area to be vegetatively stabilized:	10.6 AC
Total Cut:	
Total Fill :	
Offsite Waste/Borrow Area Location	· #

- 8. Any sediment control practice which is disturbed by grading activity for placement of utilities must be repaired on the same day of disturbance.
- 9. Additional sediment control must be provided, if deemed necessary by the Howard County DPW Sediment Control Inspector.
- 10. On all sites with disturbed areas in excess of 2 acres, approval of the inspection agency shall be requested upon completion of installation of perimeter erosion and sediment controls, but before proceeding with any other earth disturbance or grading. Other building or grading inspection approvals may not be authorized until this initial approval by the inspection agency is
- 11. The total amount of silt fence = N/A

* It is the responsibility of the contractor to identify the spoil/borrow site and notify and gain approval from the sediment control inspector of the site and it's grading permit number at the time of construction.

DETAIL 24 - STABILIZED CONSTRUCTION ENTRANCE BERM (6" MIN.) XISTING PAVEMENT EXISTING EARTH FILL ** GEOTEXTILE CLASS 'C'~ PIPE AS NECESSARY MINIMUM 6" OF 2"-3" AGGREGATE OVER LENGTH AND WIDTH OF LEXISTING GROUND PROF ILE --- * 50' MINIMUM---10' MINIMUM WIDTH PLAN VIEW STANDARD SYMBOL

. Length - minimum of 50' (*30' for single residence lot).

3. Geotextile fabric (filter cloth) shall be placed over the existing ground prior to placing stone. **The plan approval authority may not require single family

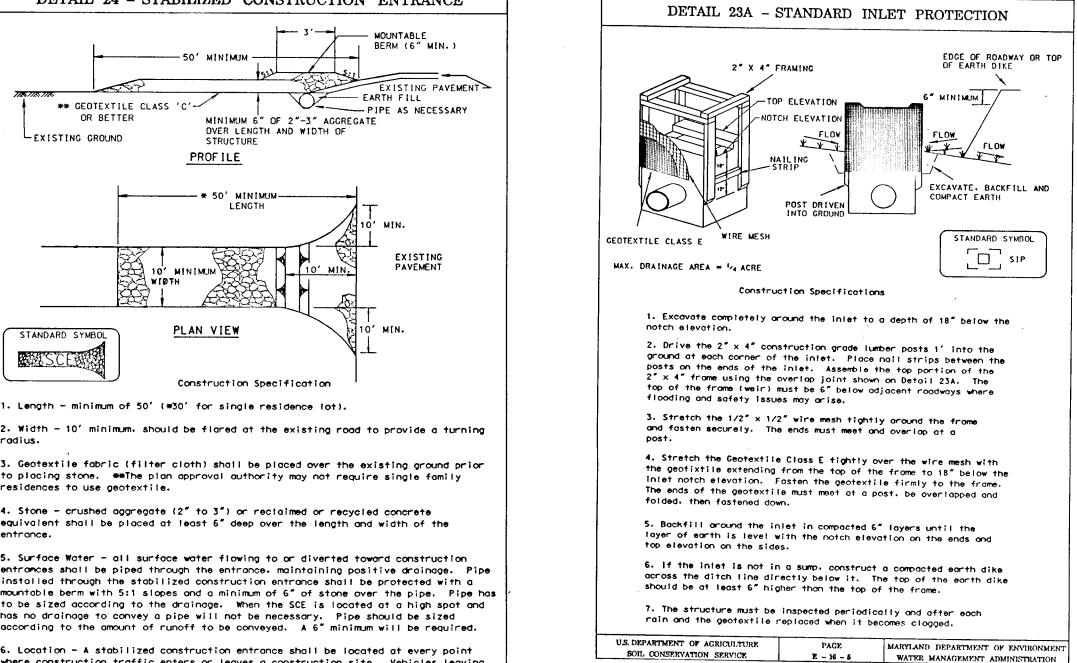
Construction Specification

4. Stone - crushed aggregate (2" to 3") or reclaimed or recycled concrete equivalent shall be placed at least 6" deep over the length and width of the entrance.

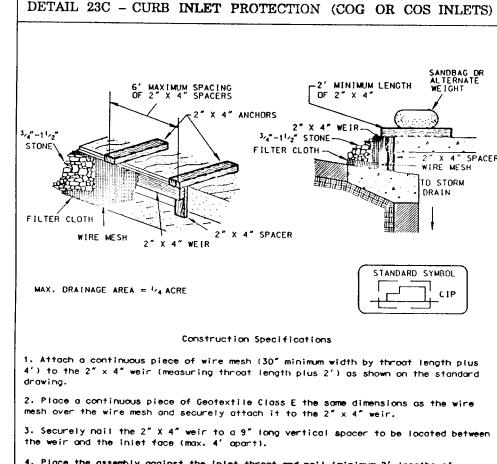
residences to use geotextile.

5. Surface Water - all surface water flowing to or diverted toward construction entrances shall be piped through the entrance, maintaining positive drainage. Pipe installed through the stabilized construction entrance shall be protected with a mountable berm with 5:1 slopes and a minimum of 6" of stone over the pipe. Pipe has to be sized according to the drainage. When the SCE is located at a high spot and has no drainage to convey a pipe will not be necessary. Pipe should be sized according to the amount of runoff to be conveyed. A 6" minimum will be required.

6. Location - A stabilized construction entrance shall be located at every point where construction traffic enters or leaves a construction site. Vehicles leaving the site must travel over the entire length of the stabilized construction entrance. U.S. DEPARTMENT OF AGRICULTURE MARYLAND DEPARTMENT OF ENVIRONMENT F - 17 - 3 WATER MANAGEMENT ADMINISTRATION SOIL CONSERVATION SERVICE



SOIL CONSERVATION SERVICE



4. Place the assembly against the inlet throat and nail (minimum 2' lengths of $2^{\prime\prime}$ x $4^{\prime\prime}$ to the top of the weir at spacer locations). These $2^{\prime\prime}$ x $4^{\prime\prime}$ anchors shall

extend across the inlet top and be held in place by sandbags or alternate weight. 5. The assembly shall be placed so that the end spacers are a minimum 1' beyond both ends of the throat opening.

6. Form the ${}^{1}\!\!/_{2}{}^{m}$ x ${}^{1}\!\!/_{2}{}^{m}$ wire mesh and the geotextile fabric to the concrete gutter and against the face of the curb on both sides of the inlet. Place clean $^{3}4^{\prime\prime}$ x $^{1}1_{2}^{\prime\prime}$ stone over the wire mesh and geotextile in such a manner to prevent water from entering the inlet under or around the geotextile. 7. This type of protection must be inspected frequently and the filter cloth

and stone replaced when clogged with sediment. 8. Assure that storm flow does not bypass the inlet by installing a temporary earth or asphalt dike to direct the flow to the inlet.

U.S. DEPARTMENT OF AGRICULTURE PAGE MARYLAND DEPARTMENT OF ENVIRONMENT
E - 16 - 5B WATER MANAGEMENT ADMINISTRATION SOIL CONSERVATION SERVICE

CONSTRUCTION SEQUENCE

		No of Days
١.	Obtain a grading permit.	
2.	Install all sediment and erosion control devices and stabilize.	7
3.	Rough grade site.	20
4.	Construct all storm drainage structures, and block inlets.	20
5.	Construct all utilities.	30
6.	Construct paving, sidewalks and structures.	60
7.	Final grade and stabilize.	14
8.	Obtain approval from the Sediment Control Inspector, remove all sediment and erosion control devices and stabilize.	7

HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS 8-14-96 CHIEF, BUREAU OF HIGHWAYS HOWARD COUNTY DEPT. OF PLANNING & ZONING CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH

Natural Resources Conservation Service

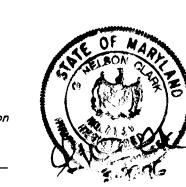
THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL

DEVELOPER'S/BUILDER'S CERTIFICATE

*I/We certify that all development and construction will be done according to this plan of development and plan for sediment and erosion control and that all responsible personnel involved in the construction project will have a Certificate of Attendance at a Department of the Environment Approved Training Program for the Control of Sediment and Erosion before beginning the project. I also authorize periodic on-site inspection by the Howard Soil Conservation District or their authorized agents, as are deemed

necestary" NAME

ENGINEER'S CERTIFICATE I hereby certify that this plan for Sediment and Erosion 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





7135 MINSTREL WAY • COLUMBIA, MD. 21045 • (410) 381-7500 BALTO • (301) 621-8100 WASH RAWN Z.A.H

SEDIMENT EROSION CONTROL DETAILS SECTION 1 AREA TAX MAP 24 PARCEL 848 SECOND (2nd) ELECTION DISTRICT

ENGINEERS • PLANNERS • SURVEYORS

HOWARD COUNTY, MARYLAND FUR: M-10 RESIDENTIAL LAND DEVELOPMENT, INC. PHONE: (410)-825-8400 1205 YORK ROAD, PENTHOUSE LUTHERVILLE, MARYLAND 21093 DRAWING

3 of 8

JOB NO.

FILE NO.

95-050-0

95-050