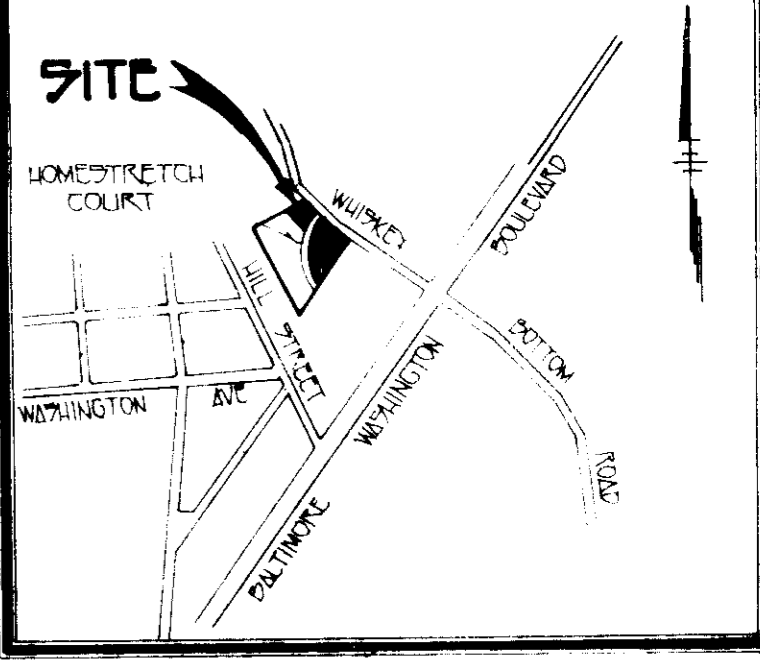


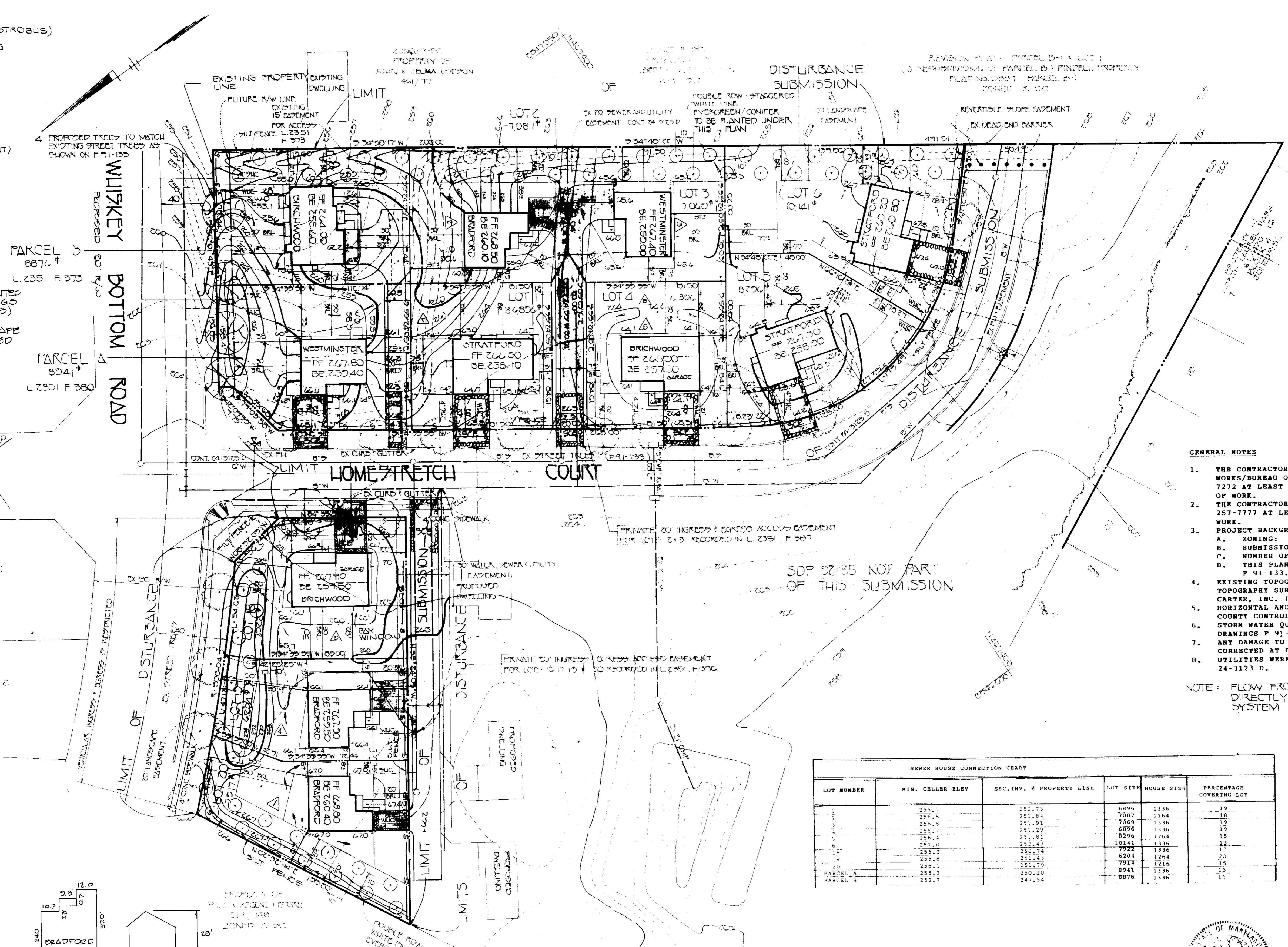
LANDSCAPE BUFFER PLANTING DETAIL NOT TO SCALE

LANDSCAPE LEGEND
 EX STREET TREES TO BE PLANTED UNDER F91-133 ROAD DRAWINGS PIN OAK (QUERCUS FALLOSTRIAS) 2 1/2" CAL
 EVERGREEN CONIFER / LANDSCAPE BUFFER TREES TO BE PLANTED UNDER THIS PLAN WHITE PINE (PINUS STROBUS) 64 PROPOSED TREES 6' TO 8' MIN HT.

PROPOSED STREET TREES TO MATCH EX STREET TREES AS SHOWN ON F91-133 PIN OAK (QUERCUS FALLOSTRIAS) 4 PROPOSE TREES 2 1/2" CAL



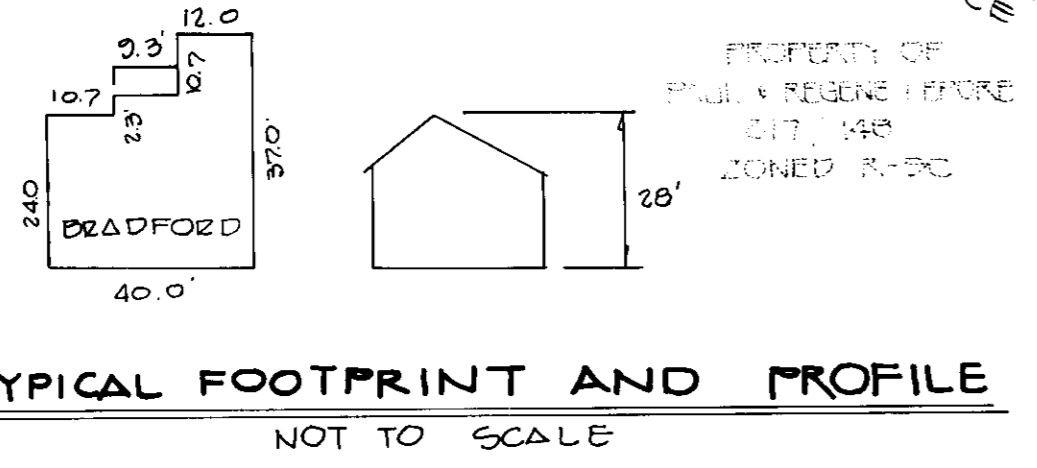
VICINITY MAP SCALE 1" = 200'



- GENERAL NOTES**
- THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS/BUREAU OF CONSTRUCTION INSPECTION AT (410) 792-7272 AT LEAST FIVE (5) WORKING DAYS PRIOR TO THE START OF WORK.
 - THE CONTRACTOR SHALL NOTIFY "MISS UTILITY" AT 1-800-257-7777 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION WORK.
 - PROJECT BACKGROUND
 A. ZONING: R.S.C.
 B. SUBMISSION AREA: 1.98 ACRE
 C. NUMBER OF LOTS: 11
 D. THIS PLAN IS SUBJECT TO S 91-06, - 91-15 AND F 91-133.
 - EXISTING TOPOGRAPHY WAS TAKEN FROM ROAD DRAWING AND TOPOGRAPHY SURVEY PREPARED BY FISHER, COLLINS AND CARTER, INC. (JANUARY, 1991).
 - HORIZONTAL AND VERTICAL DATUMS ARE BASED ON HOWARD COUNTY CONTROL STATIONS 1742105 AND 1742001.
 - STORM WATER QUALITY AND QUANTITY PROVIDED BY APPROVED DRAWINGS F 91-133.
 - ANY DAMAGE TO THE COUNTY'S RIGHT-OF-WAY SHALL BE CORRECTED AT DEVELOPERS EXPENSE.
 - UTILITIES WERE LOCATED FROM APPROVED CONTRACT DRAWINGS 24-3123 D.

NOTE: FLOW FROM ALL ROOFTOPS SHALL DRAIN DIRECTLY OR THROUGH THE STORMDRAIN SYSTEM INTO THE S.W.M. POND

NO	DATE	DESCRIPTION
0	5-7-92	LOT 10 MODEL REVISION
1	5-7-92	LOT 4 MODEL REVISION
2	3-4-92	REMOVE LANDSCAPE BUFFER REVISE SPOT ELEVATIONS
3	1-13-92	ADD BARTH BURMS ADJUSTMENT TO WHISKEY BOTTOM ROAD
4	1-13-92	LOT 4 MODEL REV.
5	1-13-92	LOT 10 MODEL REV.
6	1-13-92	LOT 3 MODEL REV.
7	1-13-92	LOT 2 MODEL REV.
8	1-13-92	LOT 20 MODEL REV.



SEWER HOUSE CONNECTION CHART

LOT NUMBER	MIN. CELLER ELEV	SEC. INV. # PROPERTY LINE	LOT SIZE	HOUSE SIZE	PERCENTAGE COVERING LOT
1	255.2	250.73	6896	1336	19
2	256.6	251.84	7087	1364	18
3	256.8	251.91	7069	1336	19
4	255.7	251.29	6896	1336	19
5	256.4	251.86	8296	1264	15
6	257.0	252.43	10141	1336	13
18	255.2	250.74	7922	1336	17
19	255.8	251.43	6204	1264	20
20	256.1	251.79	7914	1216	15
PARCEL A	255.3	250.10	8941	1336	15
PARCEL B	252.7	247.54	8876	1336	15

ADDRESS CHART

LOT NO.	STREET	ADDRESS
1	2215	HOMESTRETCH COURT
2	2211	HOMESTRETCH COURT
3	2217	HOMESTRETCH COURT
4	2225	HOMESTRETCH COURT
5	2231	HOMESTRETCH COURT
6	2237	HOMESTRETCH COURT
18	2200	HOMESTRETCH COURT
19	2204	HOMESTRETCH COURT
20	2208	HOMESTRETCH COURT
PARCEL A	2204	HOMESTRETCH COURT
PARCEL B	2204	HOMESTRETCH COURT

FISHER, COLLINS & CARTER, INC.
 CIVIL ENGINEERS & LAND SURVEYORS
 SUITE 100, 9171 BALTIMORE NATIONAL PIKE
 ELLICOTT CITY, MARYLAND 21043
 (301) 461-2855

ENGINEER'S CERTIFICATE
 I HEREBY 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

DATE: 5/5/92

DEVELOPER'S CERTIFICATE
 I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND PLAN FOR EROSION AND SEDIMENT 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 NECESSARY.

DATE: 3/16/92

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MET TECHNICAL REQUIREMENT

DATE: 5/8/92

APPROVED

APPROVED DEPT OF PLANNING AND ZONING

DATE: 6/10/92

APPROVED HOWARD COUNTY HEALTH DEPARTMENT FOR PUBLIC WATER AND SEWERAGE SYSTEMS

DATE: 5-26-92

APPROVED DEPARTMENT OF PUBLIC WORKS FOR PUBLIC WATER & SEWER AND STORM DRAINAGE SYSTEMS AND ROADS

DATE: 5/19/92

CHIEF, BUREAU OF ENGINEERING

DATE: 5-19-92

HEATHER DOWNS
 SINGLE FAMILY DWELLING
 LOTS 1-C, 10-20
 TAX MAP 50 PARCEL 133
 PARCEL A & B
 ZONED: R-5C
 DATE: FEBRUARY 26, 1992
 SCALE: 1" = 200'

PERMANENT SEEDING NOTES:
 APPLY TO GRADED OR CLEARED AREA NOT SUBJECT TO IMMEDIATE FURTHER DISTURBANCE WHERE A PERMANENT LONG-LIVED VEGETATIVE COVER IS NEEDED.

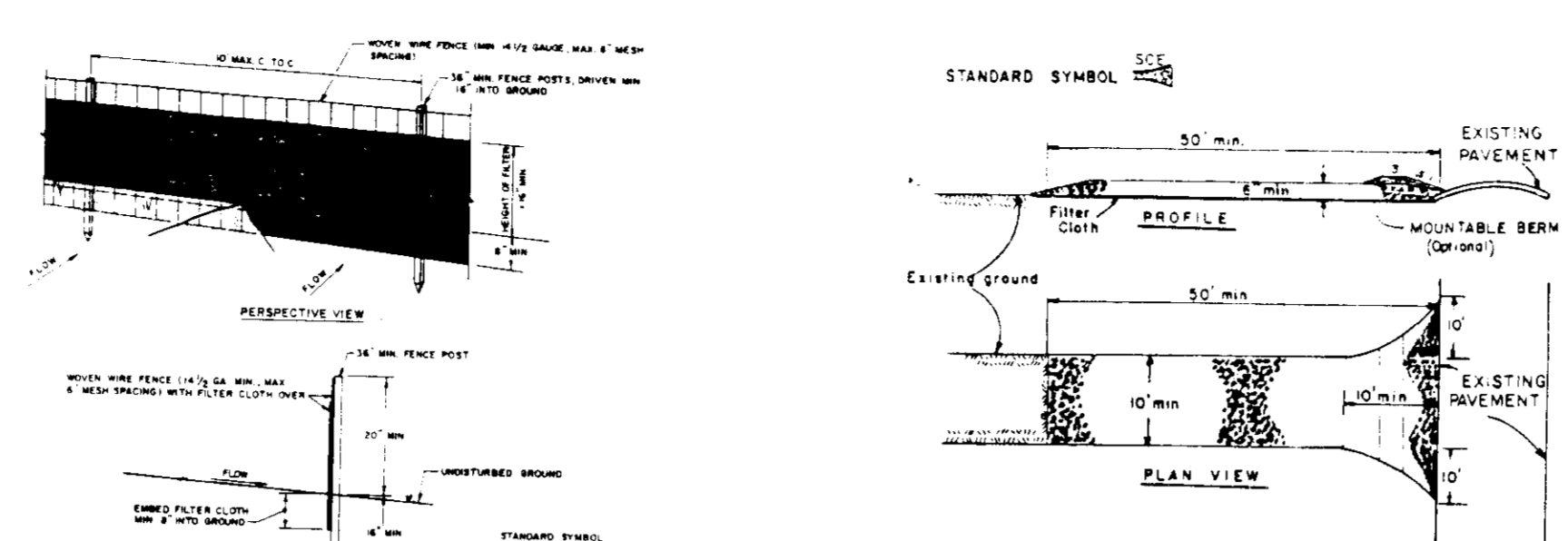
SEEDBED PREPARATION: LOOSEN UPPER THREE-INCHES OF SOIL BY RAKING, DISCING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING. IF NOT PREVIOUSLY LOOSENED, SOIL AMENDMENTS: IN LIEU OF SOIL TEST RECOMMENDATIONS, USE ONE OF THE FOLLOWING SCHEDULES:
 1) PREFERRED - APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE (92 LBS/1000 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 TIME OF SEEDING, APPLY 400 LBS. PER 30-0-0 UREAFORM FERTILIZER (9 LBS/1000 SQ.FT.)
 2) ACCEPTABLE - APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE (92 LBS/1000 SQ.FT.) AND 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 SPRING. OPTION (2) USE SOD. OPTION (3) SEED WITH 60 LBS/ACRE KENTUCKY 31 TALL FESCUE AND MULCH WITH 2 TONS/ACRE WELLS ANCHORED STRAW. 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 HIGHTER, USE 348 GALLONS PER ACRE (8 GAL/1000 SQ.FT.) FOR ANCHORING. MAINTENANCE: INSPECT ALL SEEDING AREAS AND MAKE NEEDED REPAIRS, REPLACEMENTS AND RESEEDINGS.

TEMPORARY SEEDING NOTES:
 APPLY TO GRADED OR CLEARED AREAS LIKELY TO BE REDISTURBED WHERE A SHORT-TERM VEGETATIVE COVER IS NEEDED.

SEEDBED PREPARATION: LOOSEN UPPER THREE-INCHES OF SOIL BY RAKING, DISCING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING. IF NOT PREVIOUSLY LOOSENED, 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 LBS/1000 SQ.FT.). FOR THE PERIOD MAY 1 THRU AUGUST 14, SEED WITH 3 LBS PER ACRE OF WEEPING LOVEGRASS (.07 LBS/1000 SQ.FT.). FOR THE PERIOD NOVEMBER 16 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 USING MULCH ANCHORING TOOL OR 218 GAL PER ACRE (5 GAL/1000 SQ.FT.) OF EMULSIFIED ASPHALT ON FLAT AREAS, ON SLOPES, 8 FT. OR HIGHTER, USE 348 GAL PER ACRE (8 GAL/1000 SQ.FT.) FOR ANCHORING.

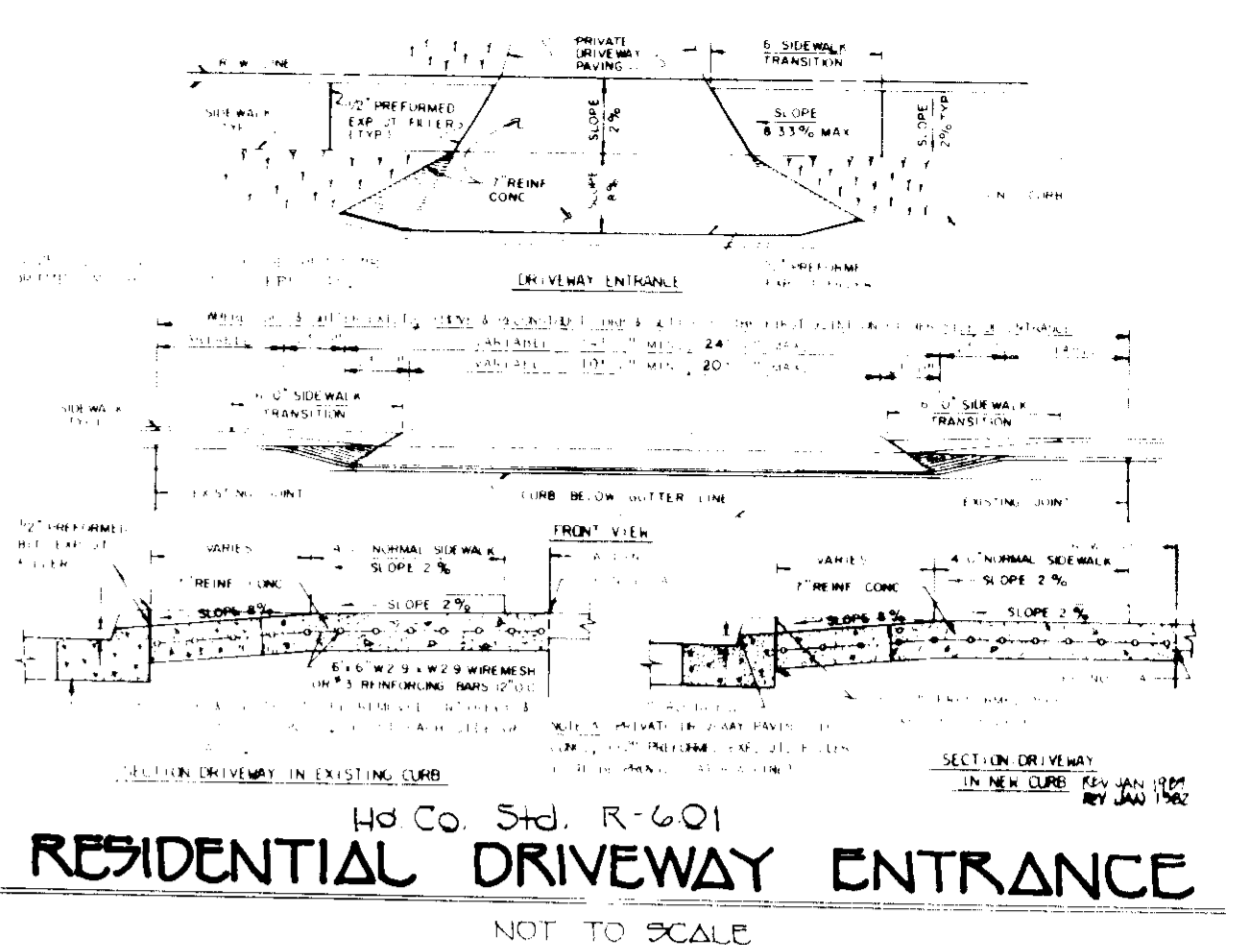
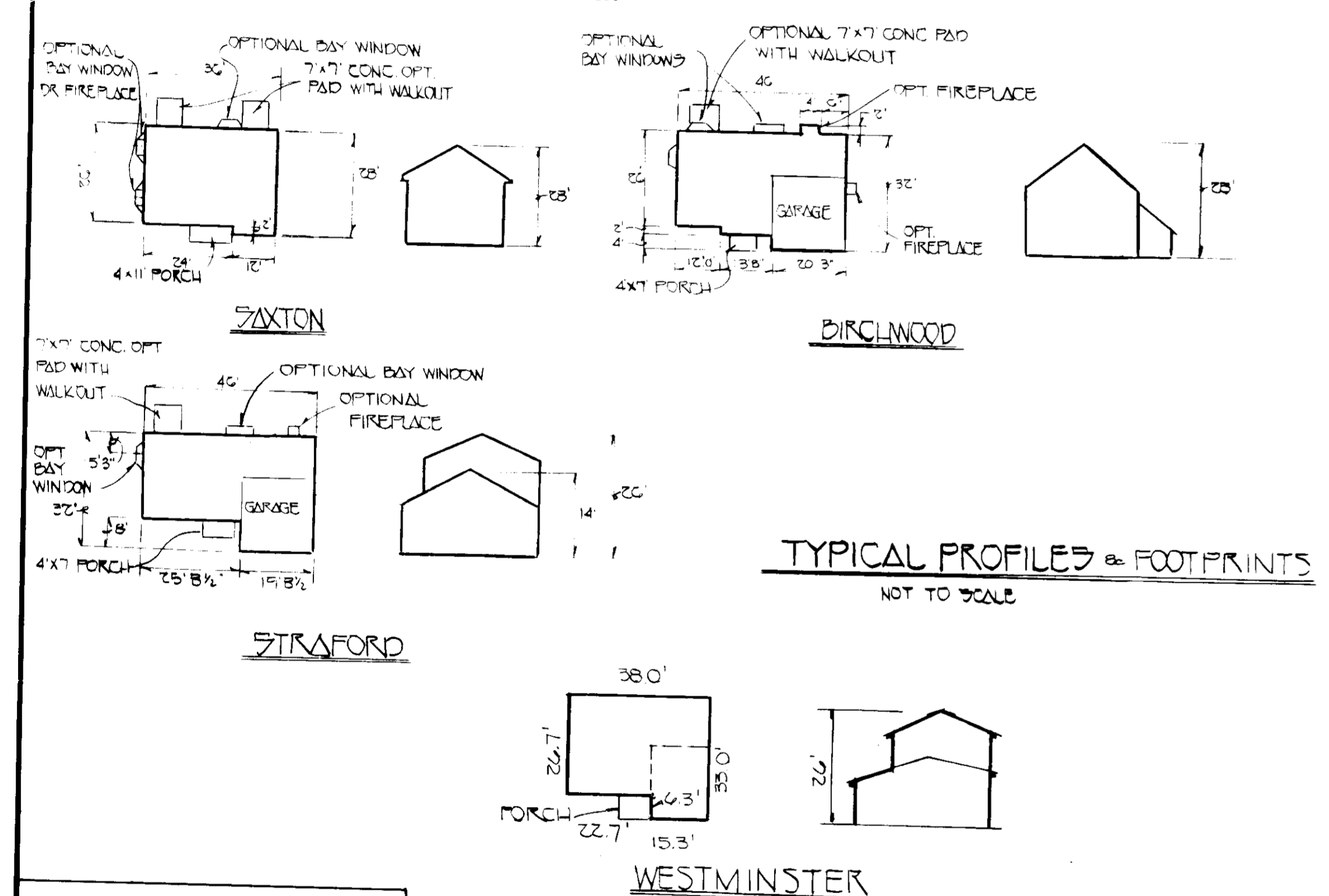
REFER TO THE 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR RATE AND METHODS NOT COVERED.



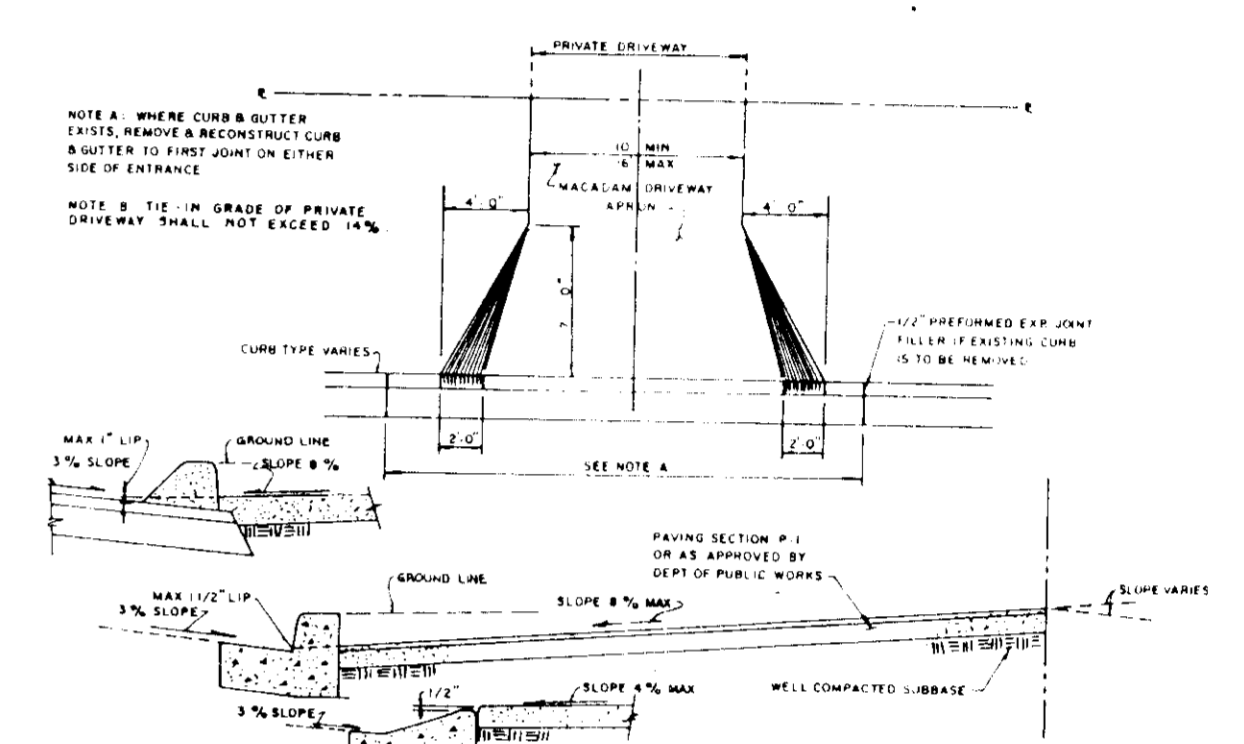
- CONSTRUCTION SPECIFICATIONS**
- Stone size - 2 1/2" stone, or equivalent as specified concrete equivalent.
 - Length - As required, but not less than 50 feet except on a single test.
 - Height - 18" high, but not less than 12" high.
 - Thickness - Not less than 6" (4" inches).
 - Width - Top 18" wide, but not less than the full width at points where ingress or egress occurs.
 - Filter Cloth - Will be placed over an entire area prior to placing of stone. Filter will not be required on a single family residence lot.
 - Surface - All surface water flowing or diverted toward construction activities shall be piped across the entrance. If piping is impractical, a mounded berm with 5:1 slope will be permitted.
 - Maintenance - The entrance shall be maintained in a condition which will prevent tracking of flowing or sediment onto public rights-of-way. This may require periodic low pressure water cleaning as conditions demand and repair and/or cleanup of any messes used to keep sediment. All equipment applied, dropped, washed or cleaned onto public rights-of-way must be removed immediately.
 - Warning - Signs shall be placed to warn of entrance onto public rights-of-way. When warning is required, it shall be done on an area established with stone and mulch prior to approved sediment trap device.
 - Periodic inspection and needed maintenance shall be provided after each rain.



- SEDIMENT CONTROL NOTES**
- A MINIMUM OF 24 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY OFFICE OF INSPECTIONS AND PERMITS PRIOR TO THE START OF ANY CONSTRUCTION (992-2427).
 - ALL VEGETATIVE AND STRUCTURAL PRACTICES ARE TO BE INSTALLED ACCORDING TO THE PROVISIONS OF THIS PLAN AND ARE TO BE IN CONFORMANCE WITH THE 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.
 - FOLLOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN: a) 7 CALENDAR DAYS FOR ALL PERIMETER SEDIMENT CONTROL STRUCTURES, DIKES, PERIMETER SLOPES AND ALL GREATER THAN 3:1, b) 14 DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.
 - ALL SEDIMENT TRAPS/BASINS SHOWN MUST BE FENCED AND WARNING SIGNS POSTED AROUND THEIR PERIMETER IN ACCORDANCE WITH VOL. 1, CHAPTER 12, OF THE HOWARD COUNTY DESIGN MANUAL, STORM DRAINAGE.
 - ALL DISTURBED AREAS MUST BE STABILIZED WITHIN THE TIME PERIOD SPECIFIED ABOVE IN ACCORDANCE WITH THE 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR PERMANENT SEEDINGS (SEC. 51) SOD (SEC. 54), TEMPORARY SEEDING (SEC. 50) AND MULCHING (SEC. 52). TEMPORARY STABILIZATION DATES DO NOT ALLOW FOR PROPER GERMINATION AND ESTABLISHMENT OF GRASSES.
 - 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.
 - SITE ANALYSIS:
 TOTAL AREA OF SITE: 5.4 ACRES
 AREA DISTURBED: 1.95 ACRES
 AREA TO BE ROOFED OR PAVED: 0.35 ACRES
 AREA TO BE VEGETATIVELY STABILIZED: 1.10 ACRES
 TOTAL CUT: 1000 CU.YDS.
 TOTAL FILL: 1000 CU.YDS.
 OFFSITE WASTE/BORROW AREA LOCATION: CU.YDS.
 - ANY SEDIMENT CONTROL PRACTICE WHICH IS DISTURBED BY GRADING ACTIVITY FOR PLACEMENT OF UTILITIES MUST BE REPAIRED ON THE SAME DAY OF DISTURBANCE.
 - ADDITIONAL SEDIMENT CONTROLS MUST BE PROVIDED, IF DEEMED NECESSARY BY THE HOWARD COUNTY DPW SEDIMENT CONTROL INSPECTOR.
 - 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 MADE.



140 Co. Std. R-601
RESIDENTIAL DRIVEWAY ENTRANCE
 NOT TO SCALE
 CLOSED SECTION WITH SIDEWALK SETBACK



140 Co. Std. R-603
RESIDENTIAL DRIVEWAY ENTRANCE
 NOT TO SCALE
 CLOSED SECTION WITHOUT SIDEWALK

- SEQUENCE OF CONSTRUCTION**
- OBTAIN GRADING PERMIT.
 - INSTALL ALL SEDIMENT AND EROSION CONTROL DEVICES AS SHOWN ON PLAN.
 - INSTALL TEMPORARY SEEDING.
 - EXCAVATE FOR FOUNDATIONS AND ROUGH GRADE.
 - CONSTRUCT STRUCTURES, SIDEWALKS AND DRIVEWAYS.
 - FINISH GRADE AND INSTALL PERMANENT SEEDING.
 - REMOVE SEDIMENT AND EROSION CONTROL DEVICES AS PERMISSION IS GRANTED BY SEDIMENT CONTROL INSPECTOR.

ENGINEER'S CERTIFICATE
 I HEREBY 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.

FISHER, COLLINS & CARTER, INC.
 CIVIL ENGINEERS & LAND SURVEYORS
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 ELLICOTT CITY, MARYLAND 21042
 (301) 461-2855

DEVELOPER'S CERTIFICATE
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Signature: [Signature]
 Date: 5/16/92

APPROVED DEPT. OF PLANNING AND ZONING
 Director: [Signature]
 Date: 6/10/92

APPROVED DEPARTMENT OF PUBLIC WORKS FOR PUBLIC WATER & SEWER AND STORM DRAINAGE SYSTEMS AND ROADS
 Director: [Signature]
 Date: 5/19/92

CHIEF, BUREAU OF ENGINEERING
 [Signature]
 Date: 5-19-92

APPROVED: HOWARD COUNTY HEALTH DEPARTMENT FOR PUBLIC WATER AND SEWERAGE SYSTEMS
 Health Officer: [Signature]
 Date: 5-24-92

APPROVED: DEPARTMENT OF PUBLIC WORKS FOR PUBLIC WATER & SEWER AND STORM DRAINAGE SYSTEMS AND ROADS
 Director: [Signature]
 Date: 5-19-92

CHIEF, BUREAU OF ENGINEERING
 [Signature]
 Date: 5-19-92

APPROVED: HOWARD COUNTY HEALTH DEPARTMENT FOR PUBLIC WATER AND SEWERAGE SYSTEMS
 Health Officer: [Signature]
 Date: 5-24-92

HEATHER DOWNS
 LOTS 1-G-18-20 TAX MAP 50
 PARCEL 435 PARCELS A & B
 ZONED R-9C
 TAX MAP 50 PARCEL 435
 SIXTH ELECTION DIST HOWARD COUNTY, MD
 DATE: SEPTEMBER 5, 1991
 SCALE: AS SHOWN

OWNER
 PUNKE PROPERTY PARTNERSHIP
 1055 LICKING RIDGE ROAD
 COLUMBIA, MARYLAND 21046

DEVELOPER
 FRANK HOMES INC
 1824 EIGHTH STREET
 SUITE 200
 PIKEVILLE, MARYLAND 21600



9-91-06 F-91-133 SHEET 2 OF 2
 50P 7C-88