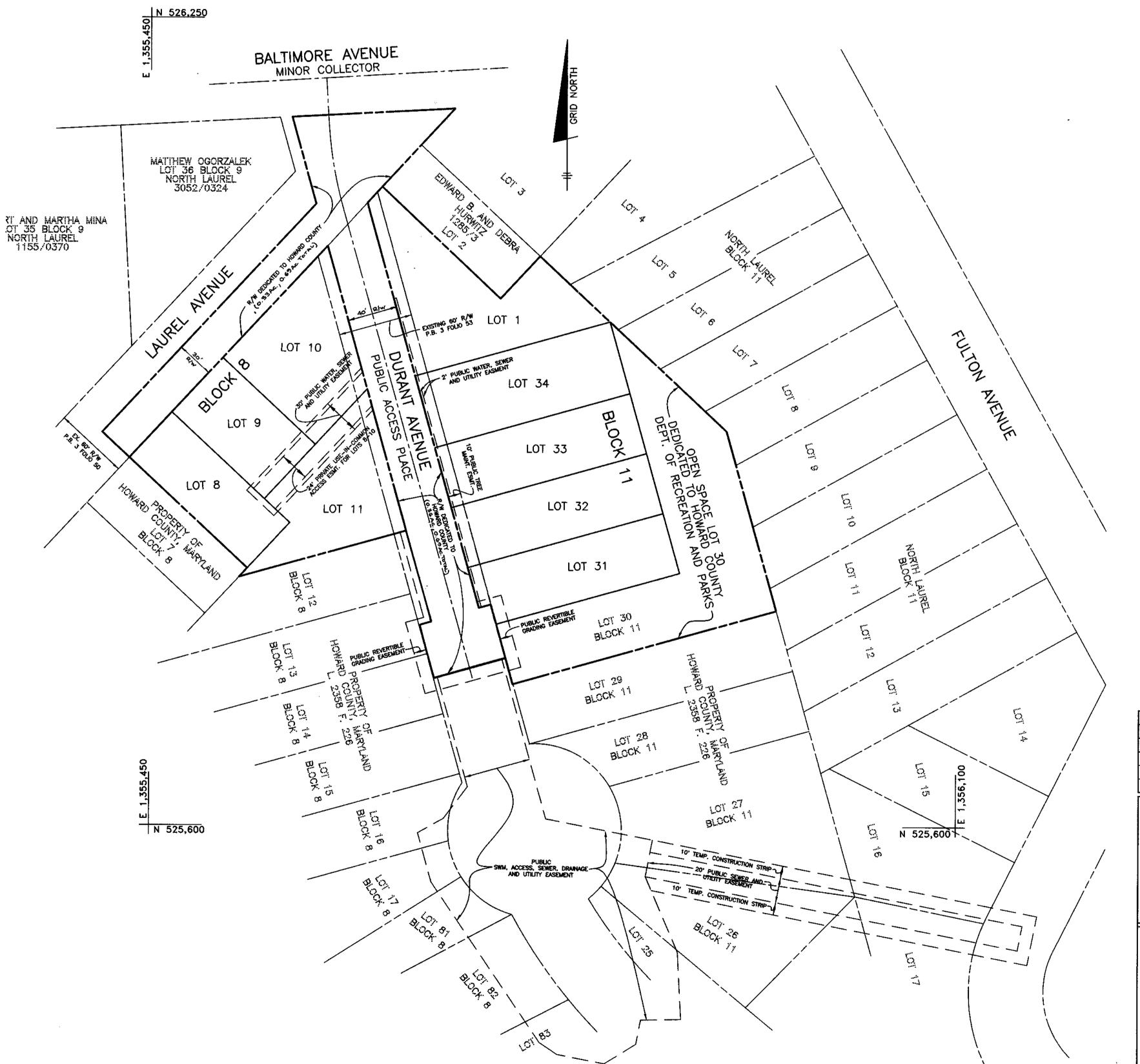
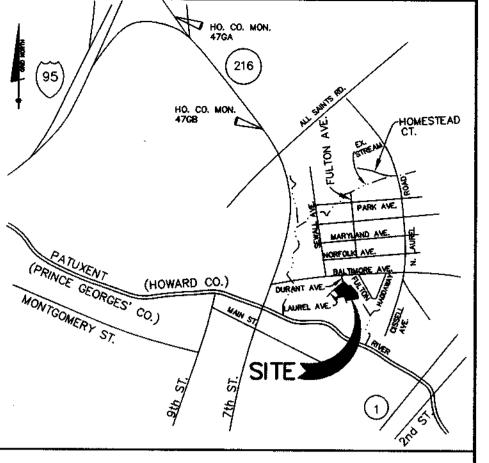
## NORTH LAUREL PARK DURANT AVENUE

## 6th ELECTION DISTRICT HOWARD COUNTY, MARYLAND ROAD AND STORMWATER MANAGEMENT

# CONSTRUCTION PLANS



**LOCATION MAP** 



VICINITY MAP

#### BENCH MARKS (NAD83)

STAMPED DISC SET ON TOP OF CONC. MONUMENT BEING 0.2 MILES WEST OF WHISKEY BOTTOM ROAD ON ROUTE 216. LOCATED IN A TRAFFIC ISLAND AND 8' FROM THE EDGE OF THE EAST BOUND LANE, 21' FROM THE EDGE OF THE WEST BOUND LANE AND 48.8' SOUTH EAST OF A GRATE INLET.

N 529.917.139' E 1,353,526.704' ELEV. 259.239

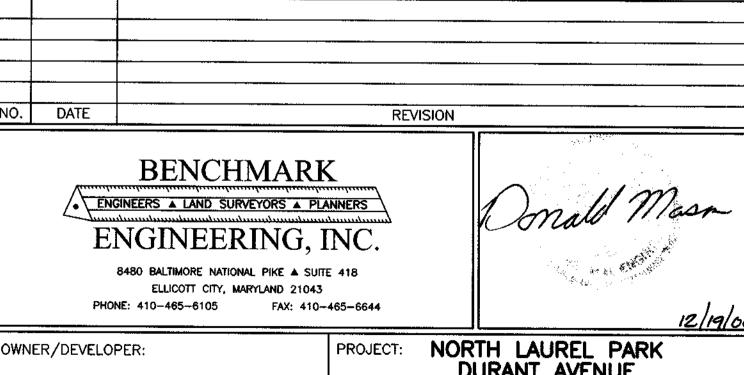
HO. CO. No. 47GA

STAMPED DISC SET ON TOP OF CONC. MONUMENT
BEING NEAR THE INTERSECTION OF INTERSTATE 95 AND ROUTE 216.
LOCATED IN A MEDIAN STRIP AND 8' FROM THE EDGE OF THE EAST BOUND LANE, 195'± SOUTH OF THE BRIDGE ABUTMENT FOR EAST BOUND ROUTE 216 AND 150'± NORTH OF THE RAMP FROM EAST BOUND 216 TO NORTH BOUND INTERSTATE 95.

N 532,404.179' E 1,351,627.363' ELEV. 350.468

	SHEET INDEX
NO.	DESCRIPTION
1	TITLE SHEET
2	ROAD AND LANDSCAPE PLAN
3	ROAD PROFILES AND DETAILS
4	DRAINAGE AREA MAP
5	GRADING, SEDIMENT AND EROSION CONTROL PLAN
6	SEDIMENT AND EROSION CONTROL NOTES AND DETAILS

STORMWATER MANAGEMENT NOTES AND DETAILS



DURANT AVENUE BLOCK '8' LOTS 8-11; BLOCK '11' LOT 1, OPEN SPACE LOT 30 AND LOTS 31-34; PUBLIC STORMWATER MANAGEMENT FACILITY; TREE MAINTENANCE EASEMENT AND WATER, SEWER, DRAINAGE AND UTILITY EASEMENTS CORNERSTONE HOLDINGS, L.L.C. LOCATION: TAX MAP: 50, GRID: 3
PARCEL: 425
6th ELECTION DISTRICT 9691 NORFOLK AVENUE LAUREL, MARYLAND 20723 HOWARD COUNTY, MARYLAND 410-792-2565 TITLE SHEET PROJECT NO. 1025

DES: GWF/JMC DRAFT: YSL/DBT CHECK: GWF SCALE: AS SHOWN

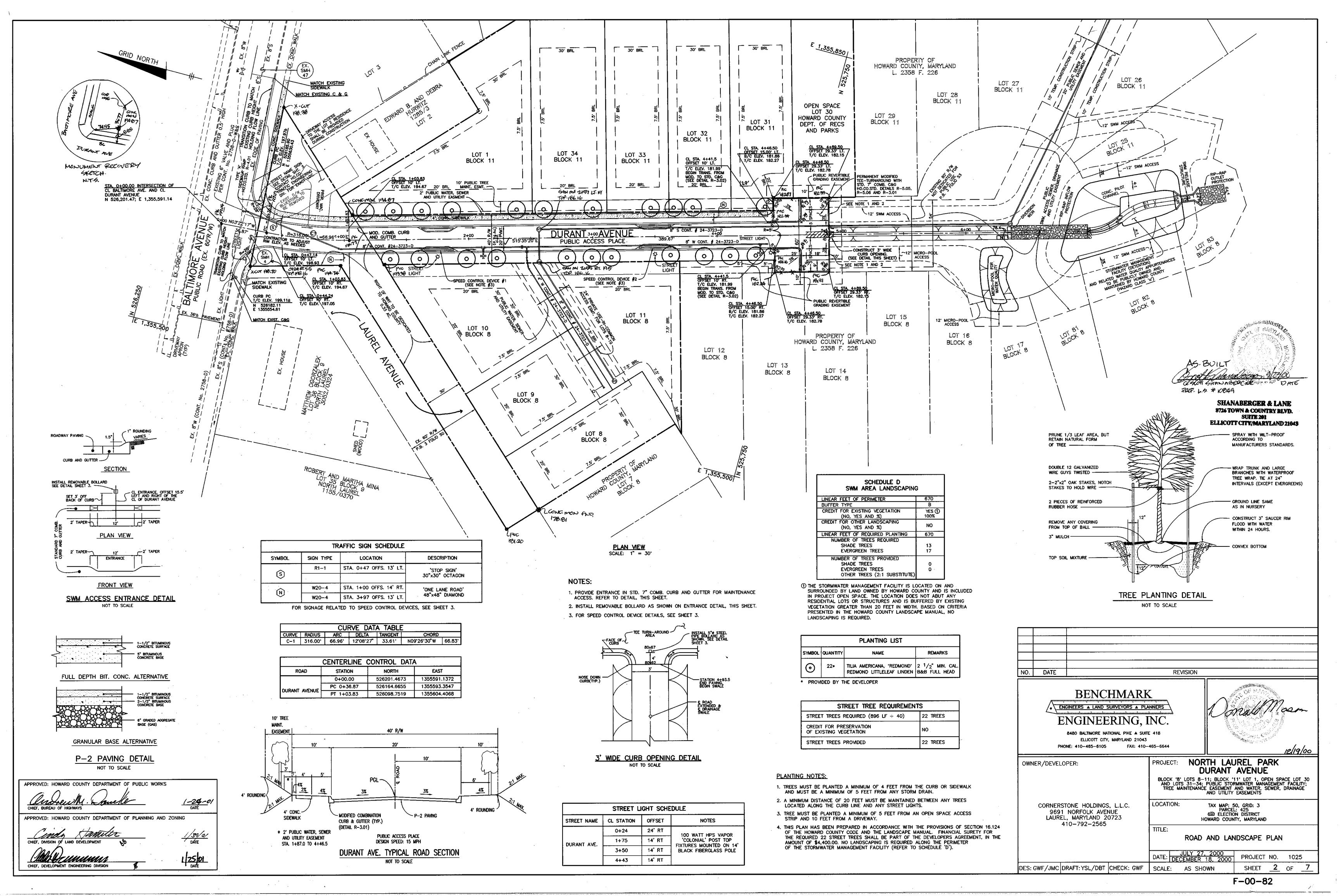
SHEET <u>1</u> OF <u>7</u> F-00-82

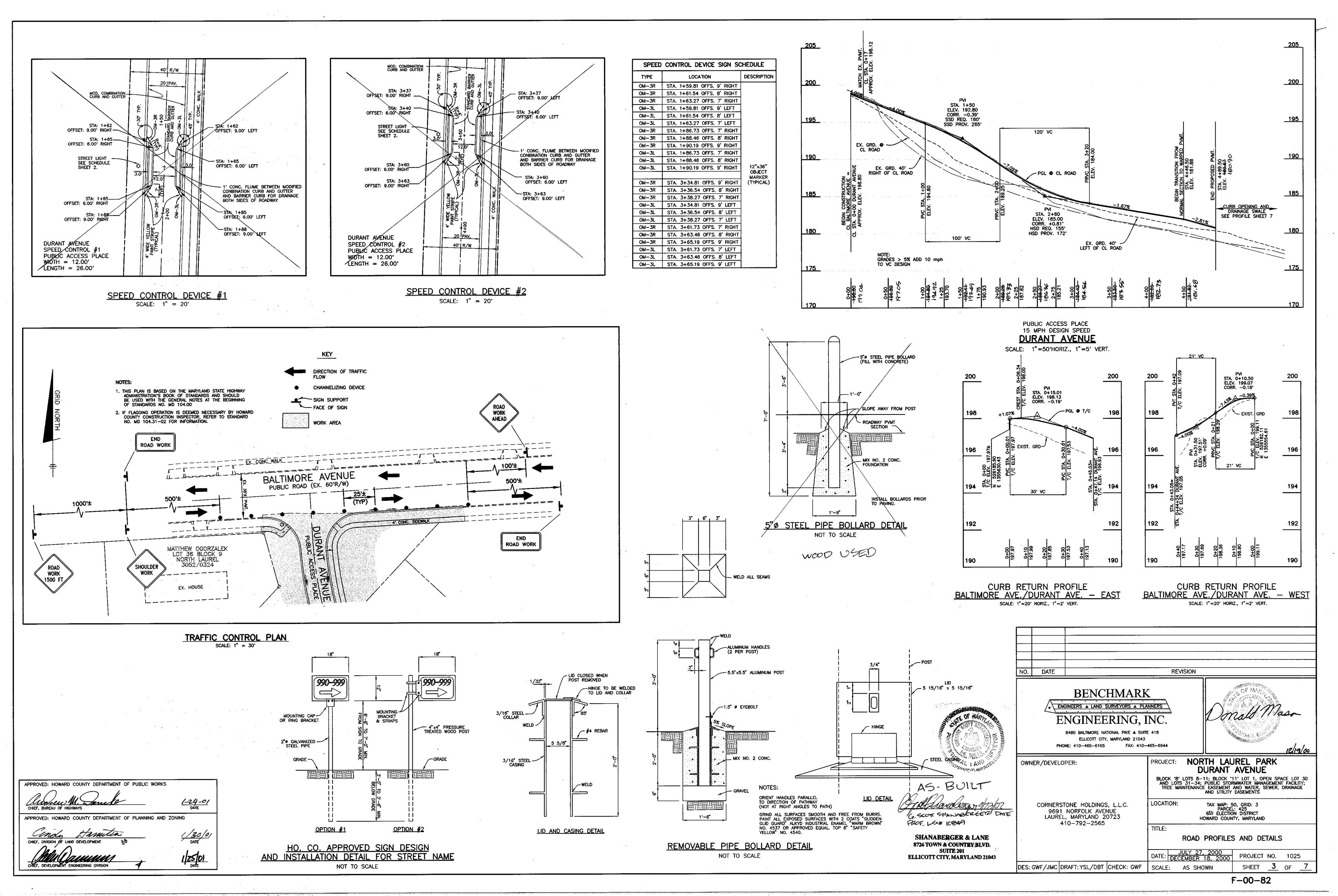
### 1-24-01 APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING F, DEVELOPMENT ENGINEERING DIVISION 1 ZSOI

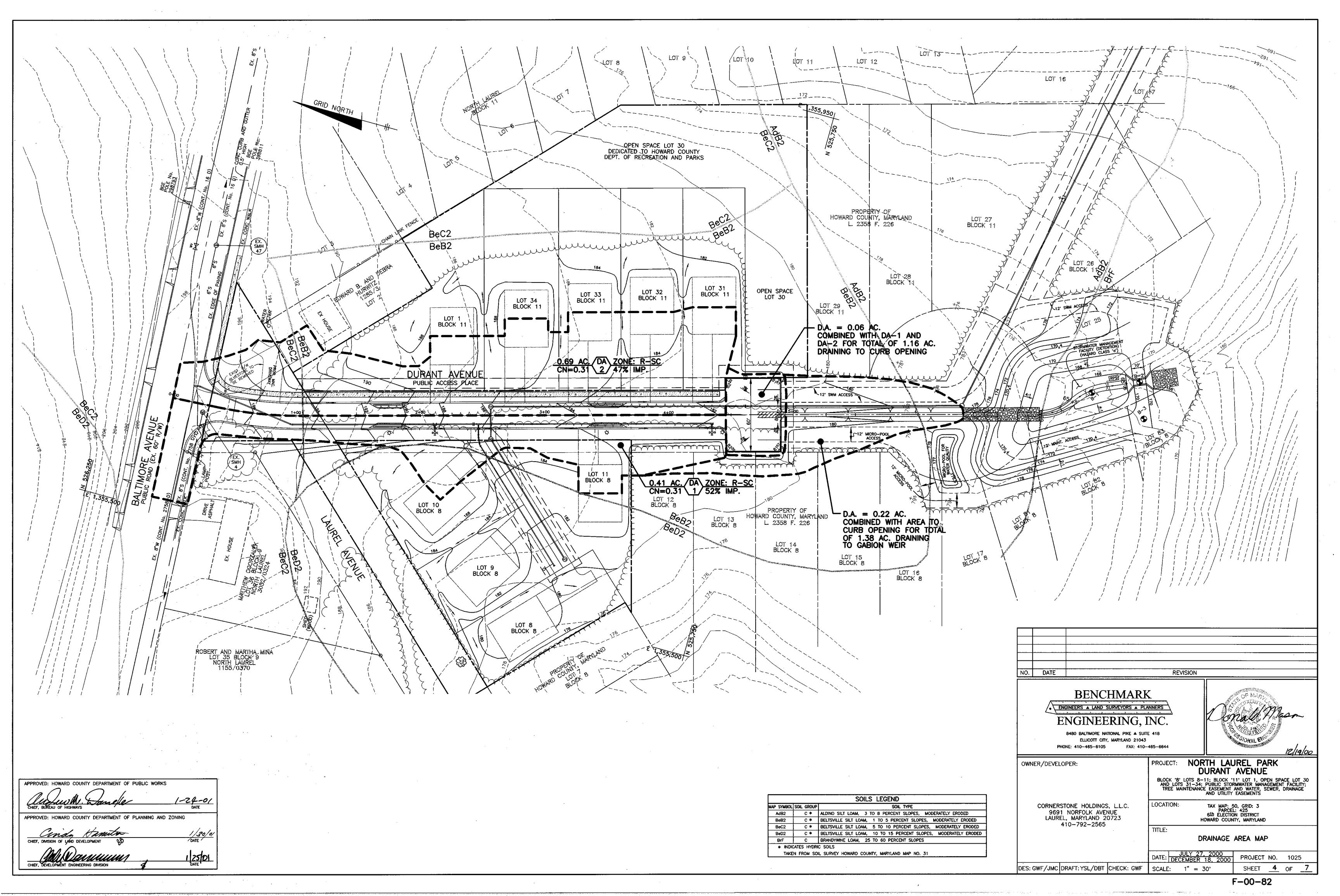
APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

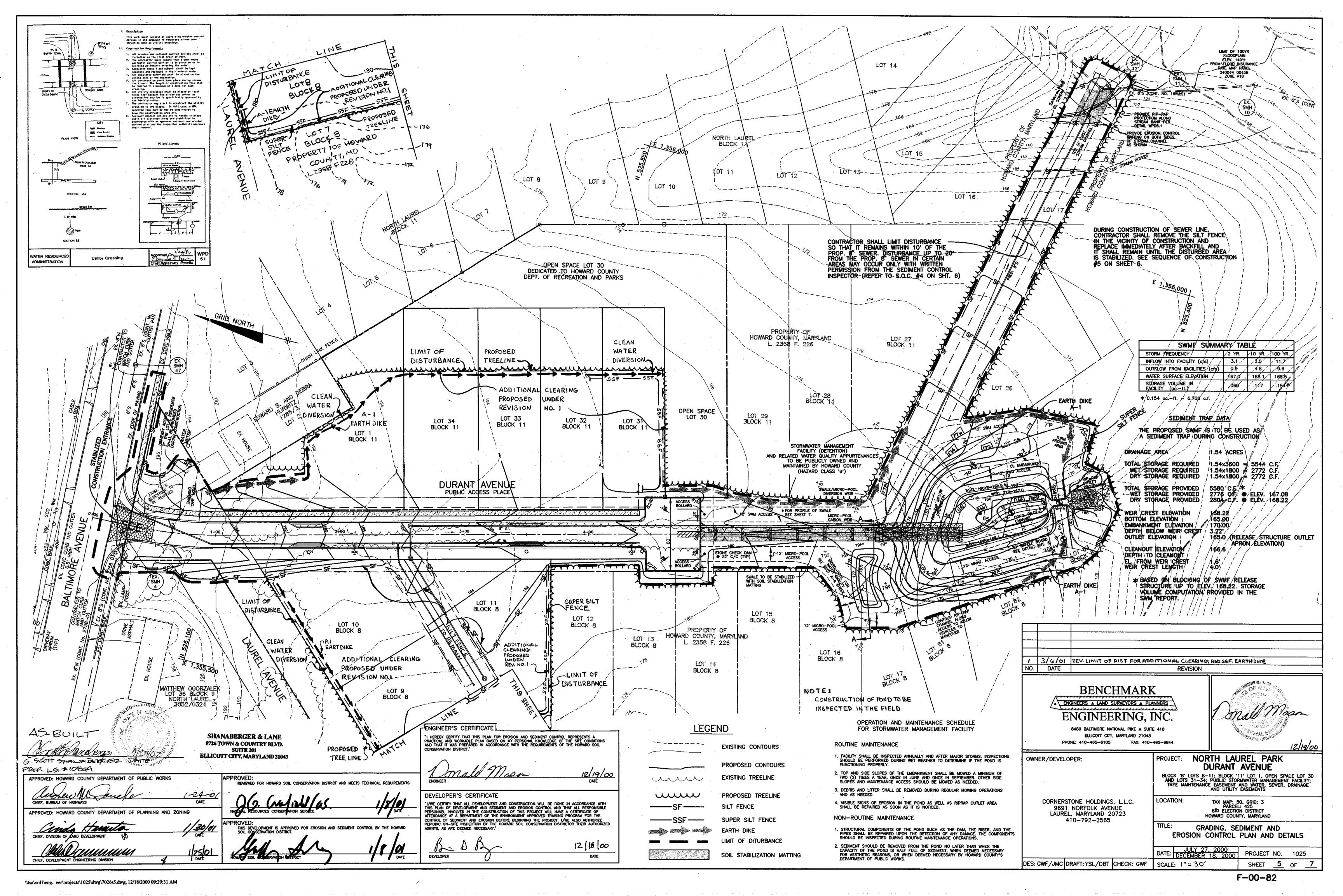
#### **GENERAL NOTES**

- All construction shall be in accordance with the latest standards and specifications of Howard County, plus MSHA standards and specifications, if applicable.
- The contractor shall notify the Department of Public Works Construction Inspection Division at (410) 313-1880 at least 5 (five) 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: Location: Tax Maps 50 - Block 3 - Parcel 425 Zoning: R-SC Total Tract Area: 2.96 Ac.± Number of Existing Lots: 9\* \*Plat was recorded in approximately 1893 in Plat Book No. 3, Folio 53. Lots have been reconfigured through deed conveyance prior to recordation of this plat.
- Traffic control devices, markings and signing shall be in accordance with the most current edition of the Manual on Uniform traffic Control Devices (MUTCD). All street and regulatory signs shall be in place prior to the placement of any asphalt.
- The contours shown hereon have been taken from field run topographic survey at 2' interval. The topography was prepared Charles P. Johnson & Associates, Inc. dated July 25, 1997 and May 27, 2000.
- 7. The coordinates shown hereon are based upon the Howard County Geodetic Control which is based upon the Maryland State Plane Coordinate System. Howard County Monuments Nos. 47GA and 47GB were used for this project.
- Water and Sewer for this subdivision is public. Sewer & water Contract No. is # 24-3723-D and its drainage area is the Patuxent watershed.
- Stormwater Management Quantity Control will be provided by detention. Quality Control to be provided by vegetative swale/micro-pool combination. The facility is to be owned and maintained by Howard County.
- 10. There are no wetlands, wetland buffers or 100 year floodplain within this project
- Forest Conservation is not required for this project since the property was recorded prior to the Forest Conservation Bill and no additional lots are being created.
- 12. A Traffic Study is not required for this property.
- Geotechnical Report compiled by Hillis—Carnes Engineering Associates, Inc. dated July, 2000.
- 14. Existing utilities were located by record drawings and field locations. Contractor shall verify location of utilities prior to construction.
- 15. Unless noted as "private" all easements are public.
- 16. There are no existing buildings on the site.
- 17. There are no previous Department of Planning and Zoning reference numbers.
- 18. Contractor shall adjust all utilities and rim elevations as needed to match this plan.
- 19. 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 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 street lights and any tree.
  Street lights for this subdivision shall be "Colonial" HPS post top fixtures on black fiberglass poles located as shown on this plan.
- 20. This plan is exempt from perimeter landscaping since no new lots are being created. Street trees for Durant Avenue as shown on these plans shall be provided by the developer in accordance with Section 16.124 of the Howard County Code and Landscape Manual. Financial surety for the required street trees shall be made part of the Developer's Agreement in the amount of \$4,400.00. Landscaping of the stormwater management facility is fulfilled through alternative compliance, see schedule 'D', sheet no. 2. Perimeter landscaping is not required.
- 21. All handicap ramps shall be in accordance with Howard County Std. Detail R-4.01 and all current ADA requirements.
- 22. A Use-In-Common Driveway Maintenance Agreement for lots 8 10 block "8" will be recorded by the developer in the Land Records Office of Howard County.
- 23. All plan dimensions are to face of curb unless otherwise noted.
- 24. Driveway access to existing house located on lot 2, block 11 shall be provided throughout construction operation.
- 25. No disturbance is permitted within the stream buffer except for work related to the utility crossing as shown on these plans (see sheet no. 5).
- 26. A letter of exemption from the Maryland Department of the Environment and a Maryland Special Permit, Category III, from the U.S. Army Corp. of Engineers for grading in the stream channel to install the utility line was applied for on December 7, 1999. The permit will be obtained prior to issuance of the grading permit. Application tracking no. 99-NT-0616/200061200.









#### SEDIMENT CONTROL NOTES

- A MINIMUM OF 24 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY DEPARTMENT OF INSPECTION, LICENSES AND PERMITS, SEDIMENT CONTROL DIVISION PRIOR TO THE START OF ANY CONSTRUCTION, (313-1850).
- ALL VEGETATIVE AND STRUCTURAL PRACTICES ARE TO BE INSTALLED ACCORDING TO THE PROVISIONS OF THIS PLAN AND ARE TO BE IN CONFORMANCE WITH THE MOST CURRENT "MARYLAND STANDARDS AND SPECIFICATION FOR SOIL EROSION AND SEDIMENT CONTROL", REVISIONS THERETO.
- 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 SLOPES GREATER THAN 3:1, B) 14 DAYS AS TO ALL OTHER DISTURBED OR GRADED
- 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
- ALL DISTURBED AREAS MUST BE STABILIZED WITHIN THE TIME PERIOD SPECIFIED ABOVE IN ACCORDANCE WITH THE 1994 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 WITH MULCH ALONE CAN ONLY BE DONE WHEN RECOMMENDED SEEDING
- 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:
  - 2.96± \_\_\_ ACRES TOTAL AREA OF SITE 3.04± ACRES 0.29± ACRES AREA TO BE ROOFED OR PAVED 2.66± ACRES AREA TO BE VEGETATIVELY STABILIZED \_\_\_\_3567\_\_\_\_ cy 2889 SITE WITH APPROVED

SED. CONTROL PLAN

- 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 CONTROL MUST BE PROVIDED, IF DEEMED NECESSARY BY THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
- 10. ON ALL SITES WITH DISTURBED AREAS IN EXCESS OF 2 ACRES, APPROVAL OF THI 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
- TRENCHES FOR THE CONSTRUCTION OF UTILITIES IS LIMITED TO THREE PIPE LENGTHS OR THAT WHICH CAN BE BACK FILLED AND STABILIZED WITHIN ONE WORKING DAY,

#### TEMPORARY SEEDBED PREPARATIONS

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 PERIOD MARCH 1 THROUGH APRIL 30 AND FROM AUGUST 15 THROUGH NOVEMBER 15, SEED WITH 2-1/2 BUSHELS PER ACRE OF ANNUAL RYE (3.2 LBS/1000 SQ FT). FOR THE PERIOD MAY 1 THROUGH AUGUST 14, SEED WITH 3 LBS PER ACRE OF WEEPING LOVEGRASS (.07 LBS/1000 SQ FT). FOR THE PERIOD NOVEMBER 16 THROUGH 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 GALLONS PER ACRE (5 GAL/1000 SQ FT) OF EMULSIFIED ASPHALT ON FLAT AREAS. ON SLOPES, 8 FT. 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 COVERED.

#### PERMANENT SEEDBED PREPARATIONS

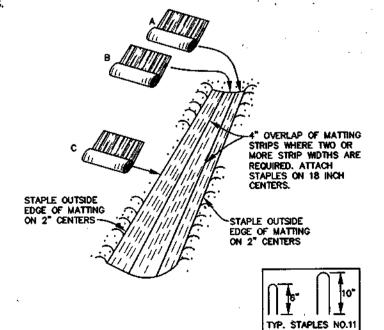
SEEDBED PREPARATION: LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISCING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING, IF NOT PREVIOUSLY LOOSENED. SOIL AMENDMENTS: IN LIEU OF SOIL TEST RECOMMENDATIONS, USE ON OF THE FOLLOWING

- 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 THE OF SEEDING, APPLY 400 LBS PER ACRE 30-0-0 UREAFORM FERTILIZER (9 LBS/1000 SQ FT)
- 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 THROUGH APRIL 30 AND AUGUST 1 THROUGH OCTOBER 15, SEED WITH 60 LBS PER ACRE (1.4 LBS/1000 SQ FT) OF 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 THROUGH FEBRUARY 28, PROTECT SITE BY: OPTION (1) 2 TONS PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING. OPTION (2) USE SOD. OPTION (3) SEED WITH 60 LBS PER ACRE OF KENTUCKY 31 TALL FESCUE AND MULCH WITH 2 TONS PER ACRE OF WELL 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 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.



CONSTRUCTION SPECIFICATIONS

- TRENCH. 6° IN DEPTH. BACKFILL THE TRENCH AND TAMP FIRMLY TO CONFORM TO THE CHANNEL CROSS-SECTION. SECURE WITH A ROW OF STAPLES ABOUT 4" DOWN SLOPE FROM THE TRENCH. SPACING BETWEEN STAPLES IS 6".
- 2. STAPLE THE 4" OVERLAP IN THE CHANNEL CENTER USING AN 18" SPACING BETWEEN STAPLES.
- 3. BEFORE STAPLING THE OUTER EDGES OF THE MATTING, MAKE SURE THE MATTING IS SMOOTH AND IN FIRM CONTACT WITH THE SOIL.
- 4. STAPLES SHALL BE PLACED 2' APART WITH 4 ROWS FOR EACH STRIP, 2 OUTER ROWS, AND 2 ALTERNATING ROWS DOWN THE CENTER.
- 5. WHERE ONE ROLL OF MATTING ENDS AND ANOTHER BEGINS, THE END OF THE TOP STRIP SHALL OVERLAP THE UPPER END OF THE LOWER STRIP BY 4", SHIPLAP FASHION. REINFORCE THE OVERLAP WITH A DOUBLE ROW OF STAPLES SPACED 6" APART IN A
- 6. THE DISCHARGE END OF THE MATTING LINER SHOULD BE SIMILARLY SECURED WITH WITH 2 DOUBLE ROWS OF STAPLES.
- NOTE: IF FLOW WILL ENTER FROM THE EDGE OF THE MATTING THEN THE AREA EFFECTED BY THE FLOW MUST BE KEYED-IN.

#### SOIL STABILIZATION MATTING NOT TO SCALE

#### TOPSOIL SPECIFICATIONS

Topsoil salvaged from the existing site may be used provided that it meets that 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:

- 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 soil scientist and approved by the appropriate approval authority. Regardless, topsoil shall not be a mixture of contrasting texture subsoils and shall contain less than 5% by volume of cinders, stones, slag, coarse fragments, gravel, sticks, roots, trash, or other materials larger than 1-1/2" in diameter.
- Topsoil must be free of plants or plant parts such as Bermuda grass, quack grass, Johnson grass, 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.
- Place topsoil (if required) and apply soil amendments as specified in 20.0 Vegetative Stabilization Section I Vegetative Stabilization Methods and Materials.

- On soil meeting Topsoil specifications, obtain test results dictating fertilizer and lime amendments required to bring the soil into compliance with the following:
- pH for topsoil shall be between 6.0 and 7.5. If the tested soil demonstrates
   a pH of less than 6.0, sufficient time shall be prescribed to raise the pH to
   6.5 or higher.
- b. Organic content or topsoil shall be not less than 1.5 percent by weight.
- Topsoil having soluble salt content greater than 500 parts per million shall not be used.
- d. No sod or seed shall be placed on soil which has been treated with soil sterilants or chemicals used for weed control until sufficient time has elapsed (14 days min.) to permit dissipation of phyto-toxic materials.

Note: Topsoil substitutes or amendments, as recommended by a qualified agronomist soil scientification and approved by the appropriate approval authority, may be used in lieu of substituted topsoil.

- When topsoiling, maintain needed erosion and sediment control practices such as diversions, grade stabilization structures, earth dikes, slope silt fence and sediment
- Grades on the areas to be topsoiled, which have been previously established, shall be maintained, albeit 4" 8" higher in elevation.
- iii. Topsoil 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 posters.
- Topsoil shall not be placed 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.
- VI. Alternative for Permanent Seeding Instead of applying the full amounts of lime and commercial fertilizer, composted sludge and amendments may be applied as specified below:
- Composted Sludge Material for use as a soil conditioner for sites having distributed areas over 5 acres shall be tested to prescribe amendments and for sites having disturbed areas under 5 acres shall conform to the following requirements:
- a. Composted sludge shall be supplied by, or originate from, a person or persons that are permitted (at the time of acquisition of the compost) by the Maryland Department of the Environment under COMAR 26.04.06.
- b. Composted studge shall contain at least 1 percent nitrogen, 1.5 percent phosphorus, and 0.2 percent potassium and have a pH of 7.0 to 8.0. compost does not meet these requirements, the appropriate constituents must be added to meet the requirements prior to use.
- Composted studge shall be applied at a rate of 1 ton/1,000 square feet.
- c. Composted sludge shall be amended with a potassium fertilizer applied at the rate of 4 lb/1,000 square feet, and 1/3 the normal lime application rate. References: Guldelines Specifications, Soil Preparation and Sodding. MD-VA, Pub. #1, Cooperative Extension Service, University of Maryland and Virginia Polytechnic Institutes, Revised 1973.

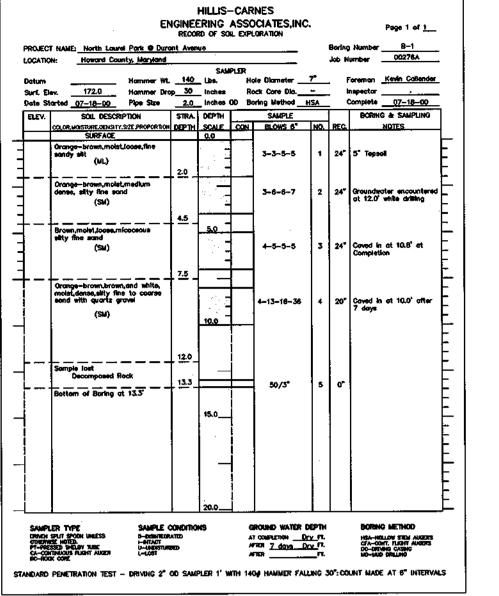
#### SEQUENCE OF CONSTRUCTION

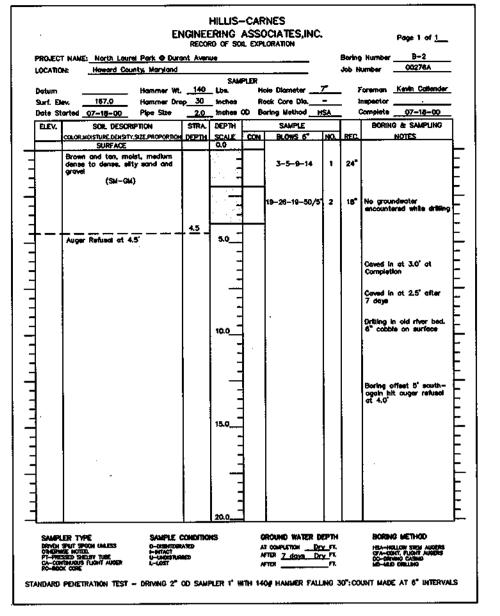
NOTIFY SEDIMENT CONTROL DIVISION 48 HOURS PRIOR TO START OF CONSTRUCTION

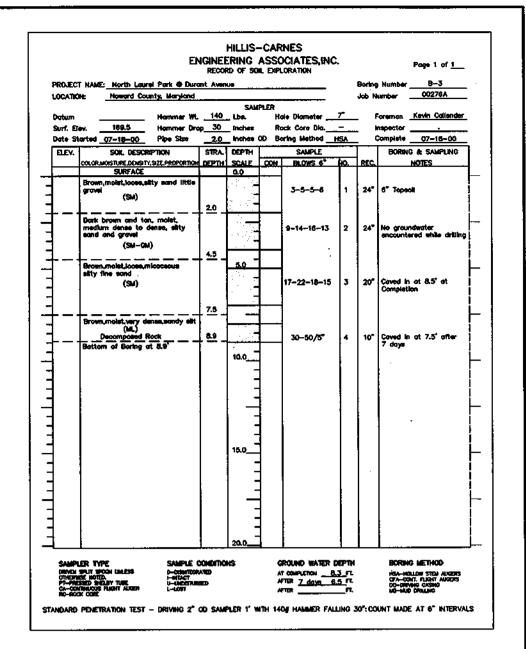
- OBTAIN GRADING PERMIT
- DAY 2-7
- CONSTRUCT STORMWATER MANAGEMENT FACILITY/SEDIMENT TRAP AND MODIFY RELEASE STRUCTURE WEIR FOR SEDIMENT CONTROL PURPOSES. OBTAIN PERMISSION FROM SEDIMENT CONSTRUCTION. DAY 8-20
- CLEAR AND GRUB REMAINDER OF SITE AND ROUGH GRADE. THE CONTRACTOR SHALL LIMIT DISTURBANCE SO THAT IT REMAINS WITHIN 10' OF THE PROP. 8" SEWER. DISTURBANCE UP TO 20' FROM THE PROP. 8" SEWER IN CERTAIN AREAS MAY OCCUR ONLY WITH WRITTEN PERMISSION FROM THE SEDIMENT CONTROL DAY 21-27
- NSPECTOR, STABILIZE AS REQUIRED. CONSTRUCT WATER AND SEWER MAINS. NOTE THAT THE SOIL CONSERVATION SERVICE REQUIRES THAT NO DISTURBANCE MAY OCCUR WITHIN 10 FEET OF THE STREAM CHANNEL FOR SEWER MAIN CONSTRUCTION UNTIL A 5 DAY CLEAR WEATHER FORCAST IS ANTICIPATED BY THE NATIONAL WEATHER SERVICE (NWS) AND PERMISSION IS GRANTED FROM THE SEDIMENT CONTROL INSPECTOR.
- GRADE REMAINING AREAS. CONSTRUCT DRAINAGE SWALE AND MICRO-POOL
- PERMANENTLY STABILIZE ALL DISTURBED AREAS.
- WITH THE APPROVAL OF THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR CONVERT SWMF/SEDIMENT TRAP TO PERMANENT USE, REMOVE REMAINING SEDIMENT CONTROL DEVICES AND STABILIZE ALL REMAINING DISTURBED AREAS WITH

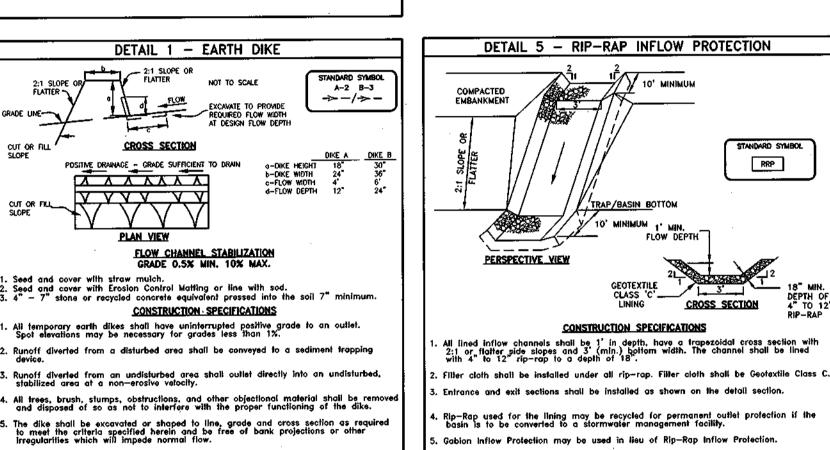
### DETAIL 24 - STABILIZED CONSTRUCTION ENTRANCE OR BETTER CLASS "C" PROFILE STANDARD SYMBOL 1. Length - minimum of 50" (+30" for single residence lot). Geotardite fabric (filter cloth) shall be placed over the existing ground prior to placing stone. ••The plan approval authority may not require alogie family residence to use geotaxtile. 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 stabilitied construction entrance shall be protected with a mounted being with Sit stopes and a minimum of 8° of stable over the pipe. Pipe has to be sized occording to the drainage. When the SCE is leaded at a high spot and has no drakings to convey a pipe will not be necessary. Pipe should be aixed according to the amount of runoff to be conveyed. A 6" minimum will be required. 6. Lecation — A stabilized construction entronce shall be located at every point where construction traffic enters or leaves a construction site. Vehicles leaving the site must travel over the order length of the stabilized construction entrance. DEPARTMENT OF AGRICULTURE PAGE MARYLAND DEPARTMENT OF ENVIRONME SOIL CONSERVATION SERVICE F - 17 - 3 WATER MANAGEMENT ADMINISTRATION

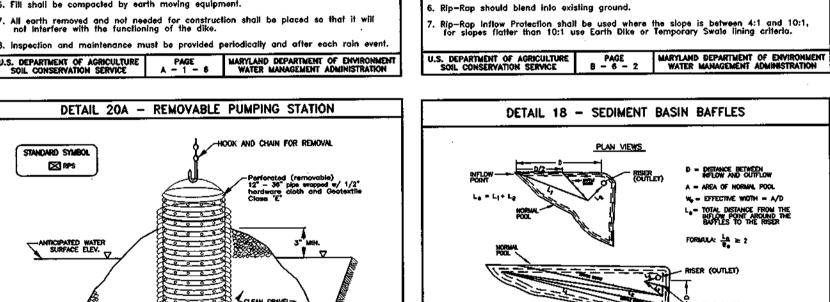
# FILTER BAG DETAIL SECTION

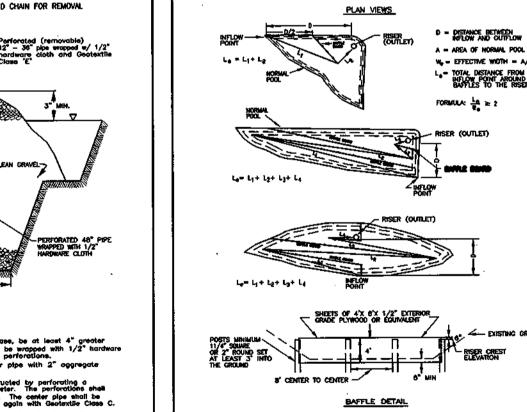












3. The inside stand pipe (center pipe) should be constructed by perforating a corrugated or PVC pipe between 12° and 36° in diameter. The perforations shall be 1/2° X 8° sits or 1° diameter holes 6° on center. The center pipe shall be wrapped with 1/2° hardware cloth first, then wrapped again with Geotextile Class 6 The center pipe should extend 12" to 18" above the anticipated water surface elevation or fleer creat elevation when dewatering a basin. U.S. DEPARTMENT OF AGRICULTURE PAGE MARYLAND DEPARTMENT OF ENSUR. CONSERVATION SERVICE D - 12 - 5 WATER MANAGEMENT ADMINIS

16" MINIMUM HEIGHT OF GEOTEXTILE CLASS F

8" MINIMUM DEPTH IN GROUND

SECTION

36" MINIMUM FÈNCE POST LENGTH

ROW

TOP VIEW

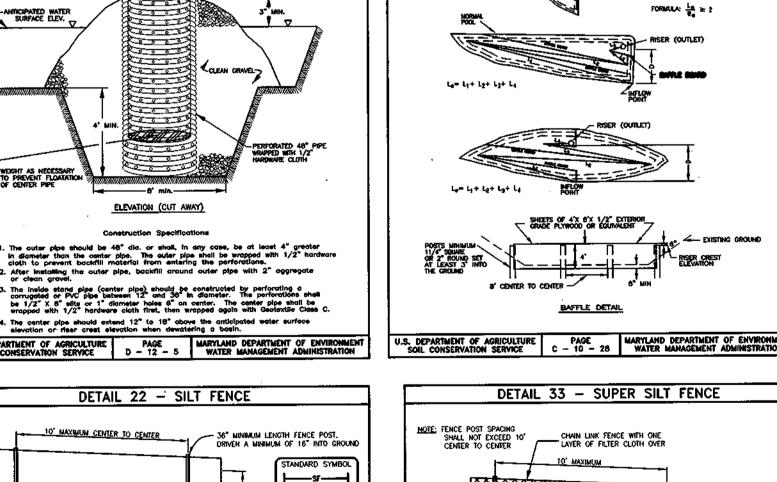
PERSPECTIVE VIEW

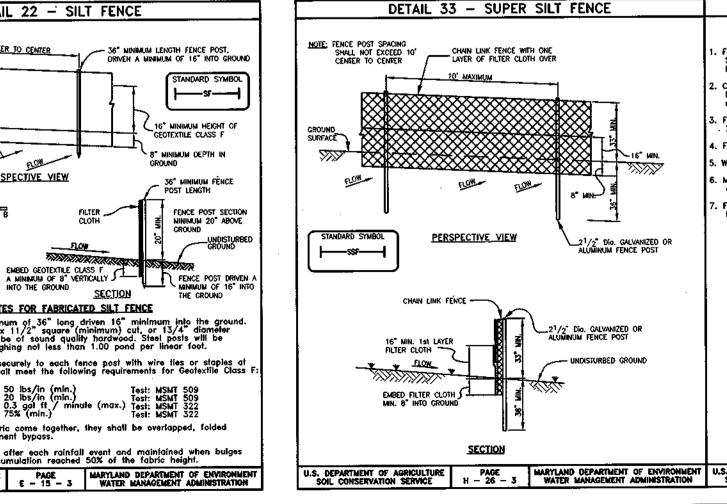
CONSTRUCTION NOTES FOR FABRICATED SILT FENCE

Tensile Strength
Tensile Modulus
Flow Rate
Filtering Efficiency

To lbs/in (min.)
Test: MSMT

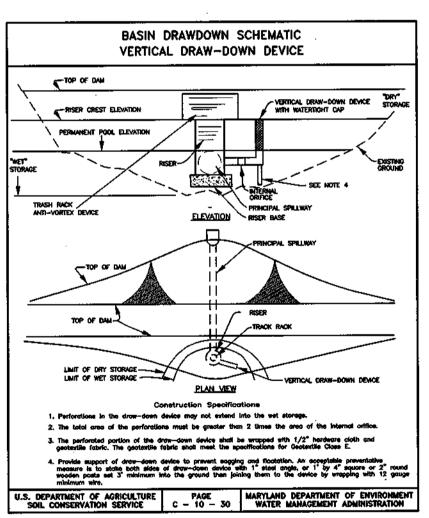
Fence posts shall be a minimum of 36" long driven 16" minimum into the ground. Wood posts shall be 11/2" x 11/2" square (minimum) cut, or 13/4" diameter (minimum) round and shall be of sound quality hardwood. Steel posts will be standard T or U section weighing not less than 1.00 pond per linear foot.

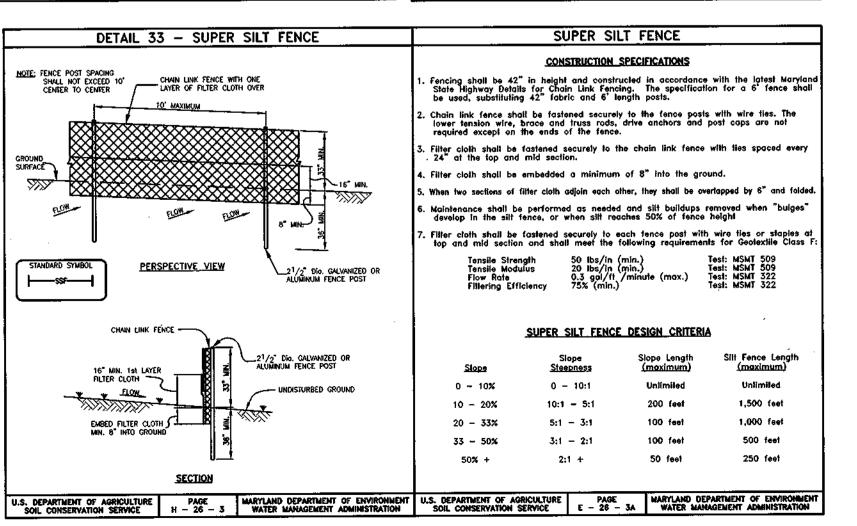


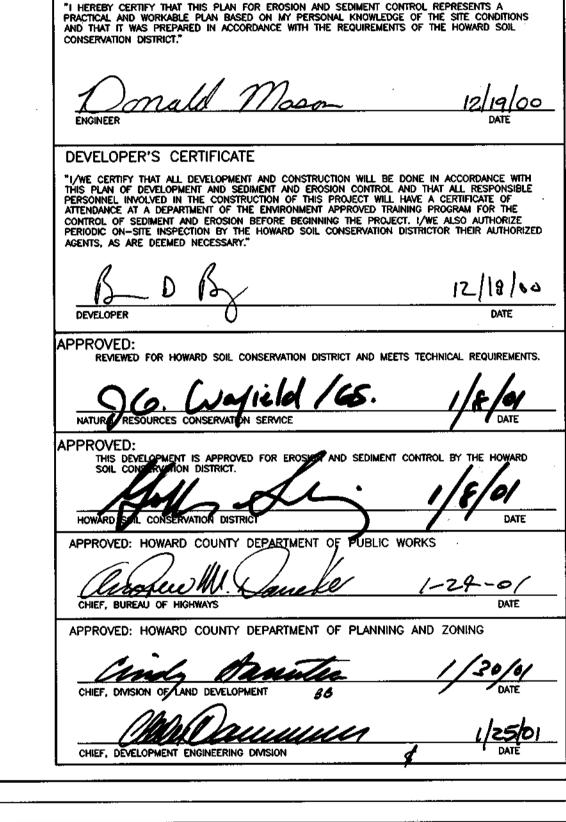


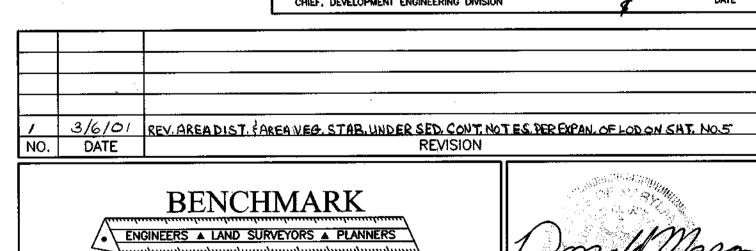
DITCH PROFILE GEOTEXTILE CLASS 'C' STANDARD STONE CHECK DAM DESIGN SLIPE SPACING Seales and disches shall be prepared in accordance with the construction specifications described in Section A-2, Standards and Specifications for Temporary Smale. 2. The check dan shall be constructed of 4'-7' stone. The stone shall be placed so that it completely covers the width of the channel and keyed into the channel banks. The top of the check dan shall be constructed so the the center is approximately 6' lower than the outer edges, forming a weir that water can flow across. 4. The naximum height of the check dan at the center shall not exceed 2°. 5. The upstream sideof the check dam shall be fined with approximately  $1^{\prime}$  of  $3/4^{\prime}$  to  $11/2^{\prime}$  crushed aggregate.

DETAIL 7 - STONE CHECK DAM









8480 BALTIMORE NATIONAL PIKE ▲ SUITE 418

ELLICOTT CITY, MARYLAND 21043



FAX: 410-465-6644 PHONE: 410-465-6105 NORTH LAUREL PARK OWNER/DEVELOPER: **DURANT AVENUE** BLOCK '8' LOTS 8-11; BLOCK '11' LOT 1, OPEN SPACE LOT 30 AND LOTS 31-34; PUBLIC STORMWATER MANAGEMENT FACILITY; TREE MAINTENANCE EASEMENT AND WATER, SEWER, DRAINAGE AND UTILITY EASEMENTS .OCATION: TAX MAP: 50, GRID: 3 PARCEL: 425 住b ELECTION DISTRICT CORNERSTONE HOLDINGS, L.L.C. 9691 NORFOLK AVENUE LAUREL, MARYLAND 20723 HOWARD COUNTY, MARYLAND

410-792-2565 SEDIMENT AND EROSION CONTROL

NOTES AND DETAILS AND SOIL BORINGS PROJECT NO. 1025 6 OF \_/ DES: GWF/JMC DRAFT: YSL/DBT CHECK: GWF SHEET SCALE:

F-00-82

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