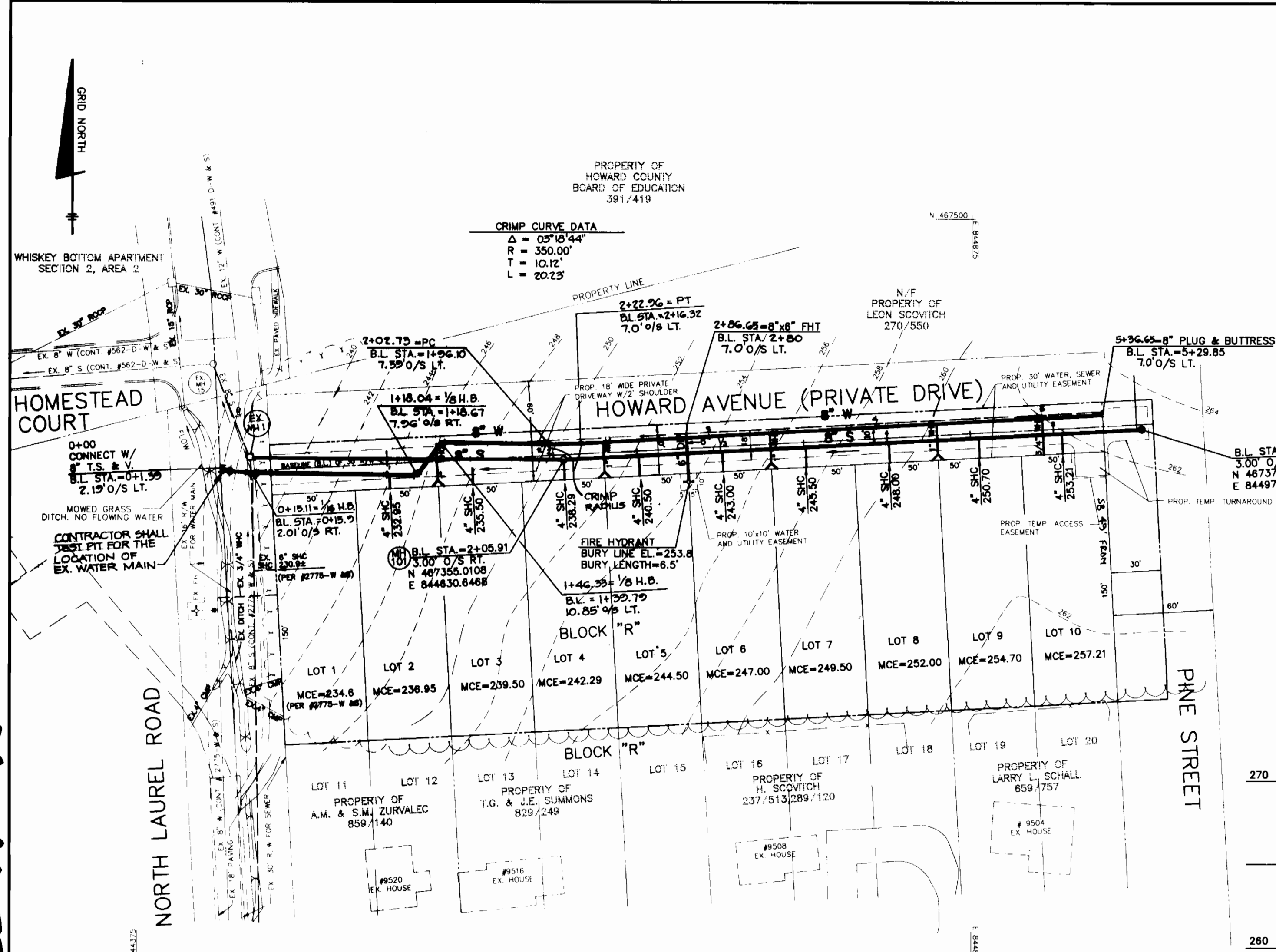


3388 WS/1 North Laurel Park

AS-BUILT 11-14-95



NOTE: ALL WATER & SEWER MAINS ARE PUBLIC SYSTEM.

PLAN VIEW SCALE: 1" = 50'

Table listing lot boundaries and setbacks for lots 2 through 10, including side setbacks (SB) and corner setbacks (CS).

THIS PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT. Includes signatures of John R. Robertson and Patricia English.

HOWARD SOIL CONSERVATION DISTRICT: REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS. Includes signature of Patricia English.

OWNER/DEVELOPER: CORNERSTONE HOMES, 6571 HUNTSIRE DRIVE, ELKBRIDGE, MARYLAND 21227. Includes phone number (410) 379-0157.

DEPARTMENT OF PUBLIC WORKS, HOWARD COUNTY, MARYLAND. Includes signatures of James J. Kelly and Robert J. Kelly.

TSA GROUP, INC. planning • engineering • surveying. 8480 Baltimore National Pike • Suite 418, Ellicott City, Maryland 21043.



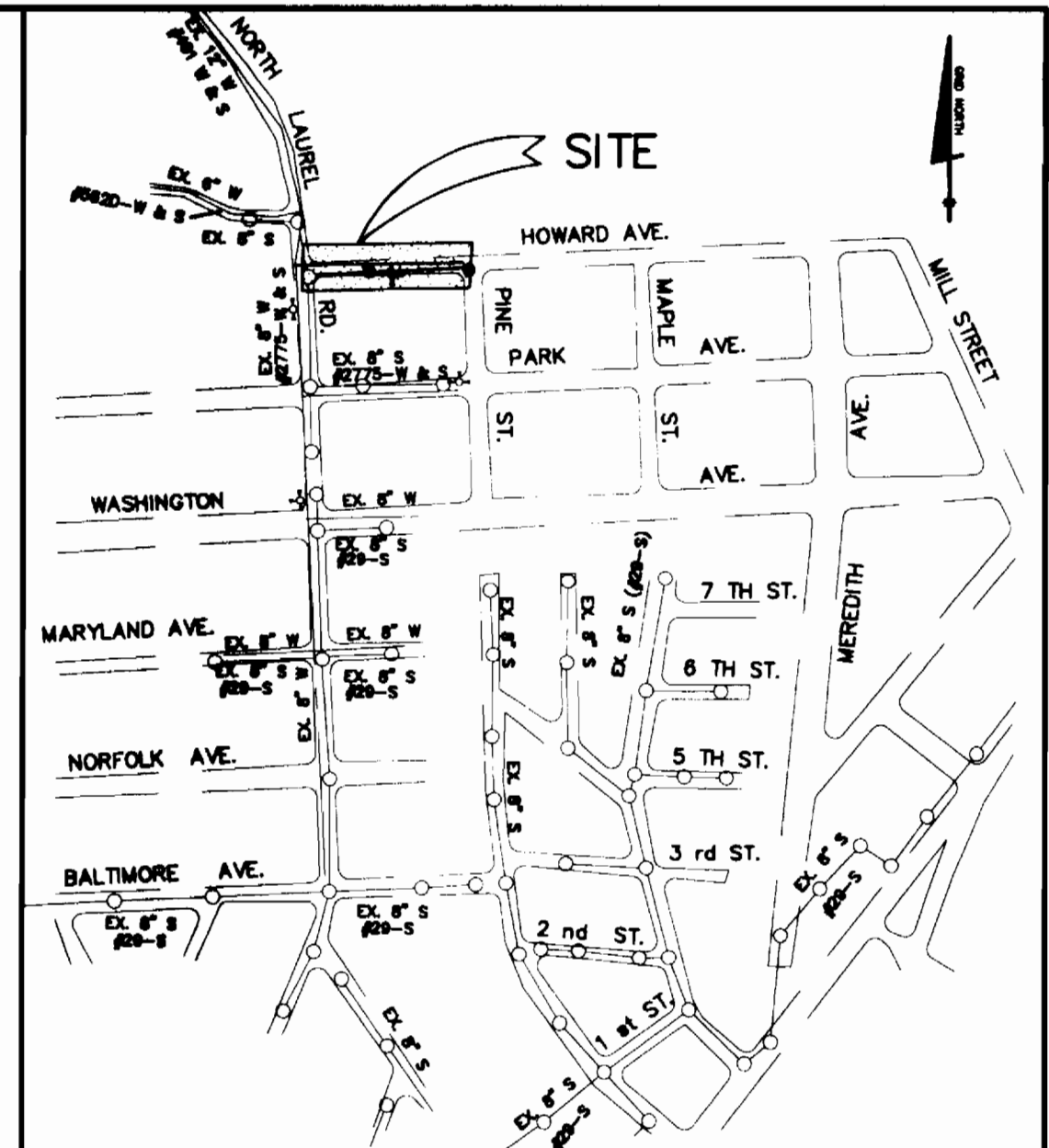
Table with columns for DES, DRN, CHK, DATE, BY, NO., REVISIONS, and DATE. Includes a revision for REV. WATER/SEWER ALIGNMENT TO MATCH FIELD CONDITION on 4/24/99.

PLAN & PROFILE WATER & SEWER EXTENSION

NORTH LAUREL PARK BLOCK "R" LOTS 1 THRU 10. HOWARD COUNTY ELECTION DISTRICT NO. 6. CONTRACT NO. 24-3388-D. SCALE AS SHOWN. SHEET 1 OF 2.

QUANTITIES AS-BUILT table listing items like 8" WATER, 8" VALVES, FIRE HYDRANTS, etc., with estimated and as-built quantities and manufacturer/supplier information.

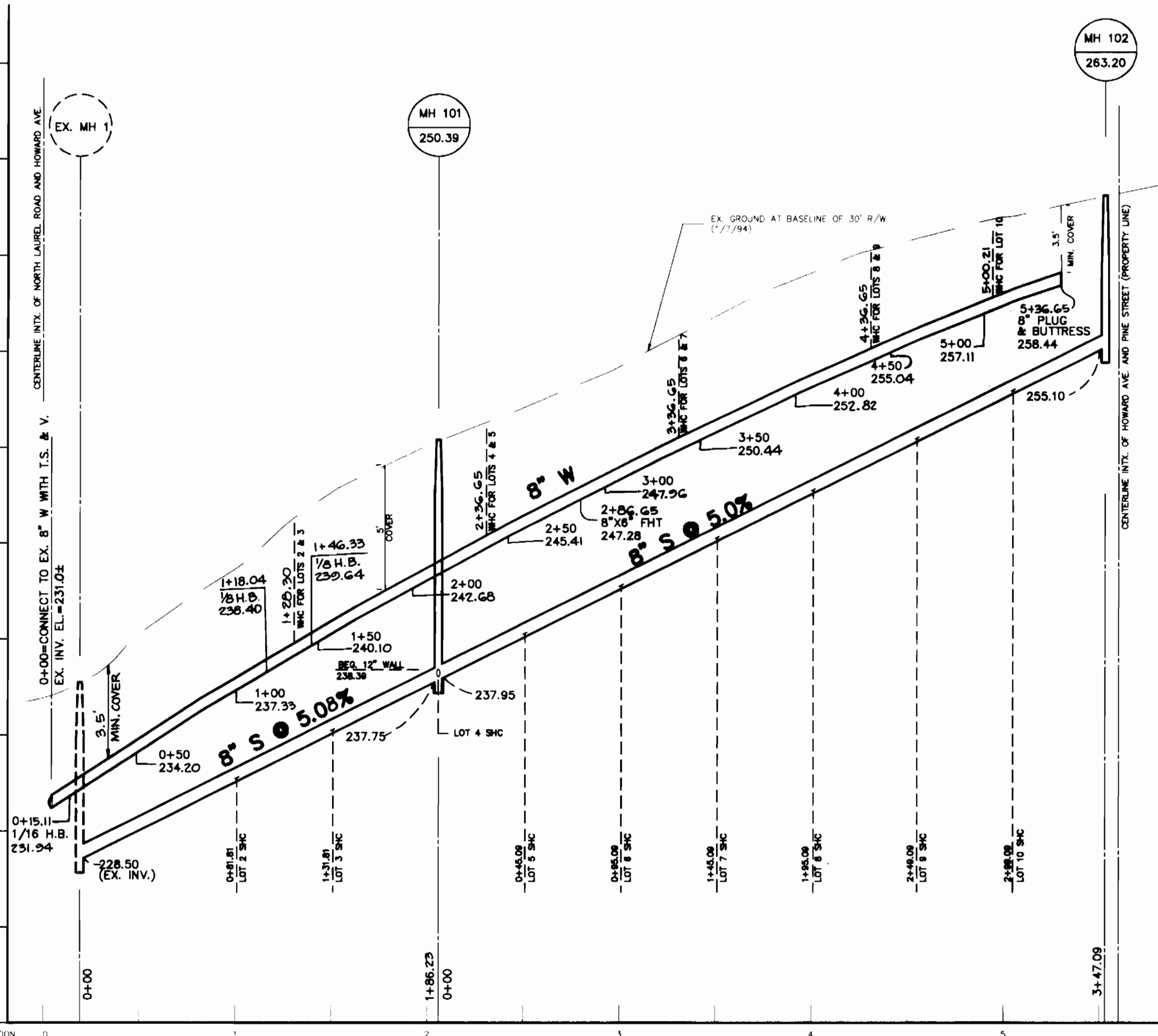
BENCH MARK DATA: HOWARD COUNTY MON. #1741003 CONC. MON. ON WEST SIDE OF RTE. 216 AND 0.2' BELOW SURFACE. ELEV.=198.395.



WATER AND SEWER COUNTY CODE: WATER CODE: 005, SEWER CODE: 7141500, DRAINAGE AREA: 550. TYPE OF BUILDING: SINGLE FAMILY DETACHED, NUMBER OF LOTS: 10, NUMBER OF SHC'S: 9, NUMBER OF WHC'S: 3, TREATMENT PLANT: LITTLE PATUXENT.

GENERAL NOTES

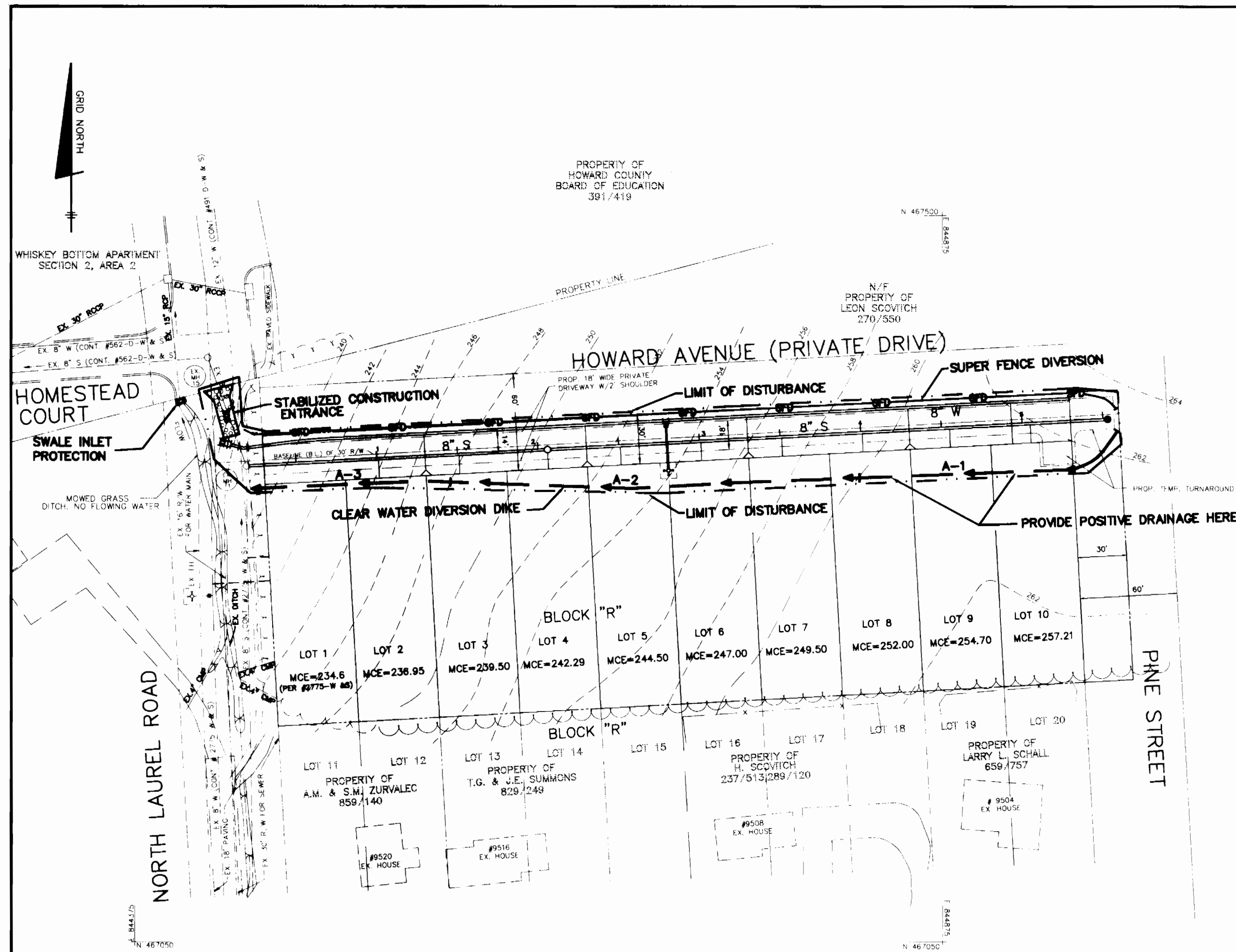
- GENERAL NOTES 1-15: APPROXIMATE LOCATION OF EXISTING MAINS ARE SHOWN... ALL VERTICAL CONTROLS ARE BASED ON U.S.G.S. DATA... CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITY COMPANIES...



WATER & SEWER PROFILE AT HOWARD AVE. SCALE: H: 1"=50', V: 1"=5'

- PART 2 - WATER: ALL WATER MAINS TO BE D.I.P. CLASS 52 UNLESS OTHERWISE NOTED... PART 3 - SEWER: ALL SEWER MAINS SHALL BE D.I.P. RCP, VCPX, CBPX, RCPD AND P.V.C. UNLESS OTHERWISE NOTED.

3388 WS/2 NORTH LAUREL PARK



PLAN VIEW  
SCALE: 1" = 50'

- NOTES:
- CONSTRUCTION SHALL BE LIMITED TO THAT WHICH CAN BE BACKFILL AND STABILIZED IN ONE DAY.
  - SOIL REMOVED FROM THE TRENCH SHALL BE PLACED ON THE UPHILL SIDE.

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, dicing or other acceptable means before seeding. (If not previously loosened)

Soil Amendments: Apply 600 lbs per acre 10-10-10 fertilizer (14 lbs/1000 sf).

Seeding: For periods March 1 through April 30 and from August 15 through November 15, seed with 2-1/2 bushel per acre of annual rye (3.2 lbs/1000 sf). For the period May 1 through August 14, seed with 3 lbs per acre of Weeping Lovegrass (0.07 lbs/1000 sf). 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 sf) 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 sf) of emulsified asphalt on flat areas. On slopes 8 feet or higher, use 348 gallons per acre (8 gal/1000 sf) for anchoring.

Refer to the 1983 Maryland Standards and Specifications for Soil Erosion and Sediment Control for rate and methods not covered.

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, dicing or other acceptable means before seeding. (If not previously loosened)

Soil Amendments: In lieu of soil test recommendations, use on the following schedules.

- Preferred - Apply 2 tons per acre dolomitic limestone (92 lbs/1000 sf) and 800 lbs per acre 10-10-10 fertilizer (14 lbs/1000 sf) before seeding. Harrow or disc into upper three inches of soil. At time of seeding, apply 400 lbs per acre 30-0-0 ureaform fertilizer (9 lbs/1000 sf).
- Acceptable - Apply 2 tons per acre dolomitic limestone (92 lbs/1000 sf) and 1000 lbs per acre 10-10-10 fertilizer (23 lbs/1000 sf) 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 sf) of Kentucky 31 Tall Fescue. For the period May 1 through July 31, seed with 60 lbs Kentucky 31 Tall Fescue per acre and 2 lbs per acre (0.05 lbs/1000 sf) 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/acre Kentucky 31 Tall Fescue and mulch with 2 tons/acre well anchored straw.

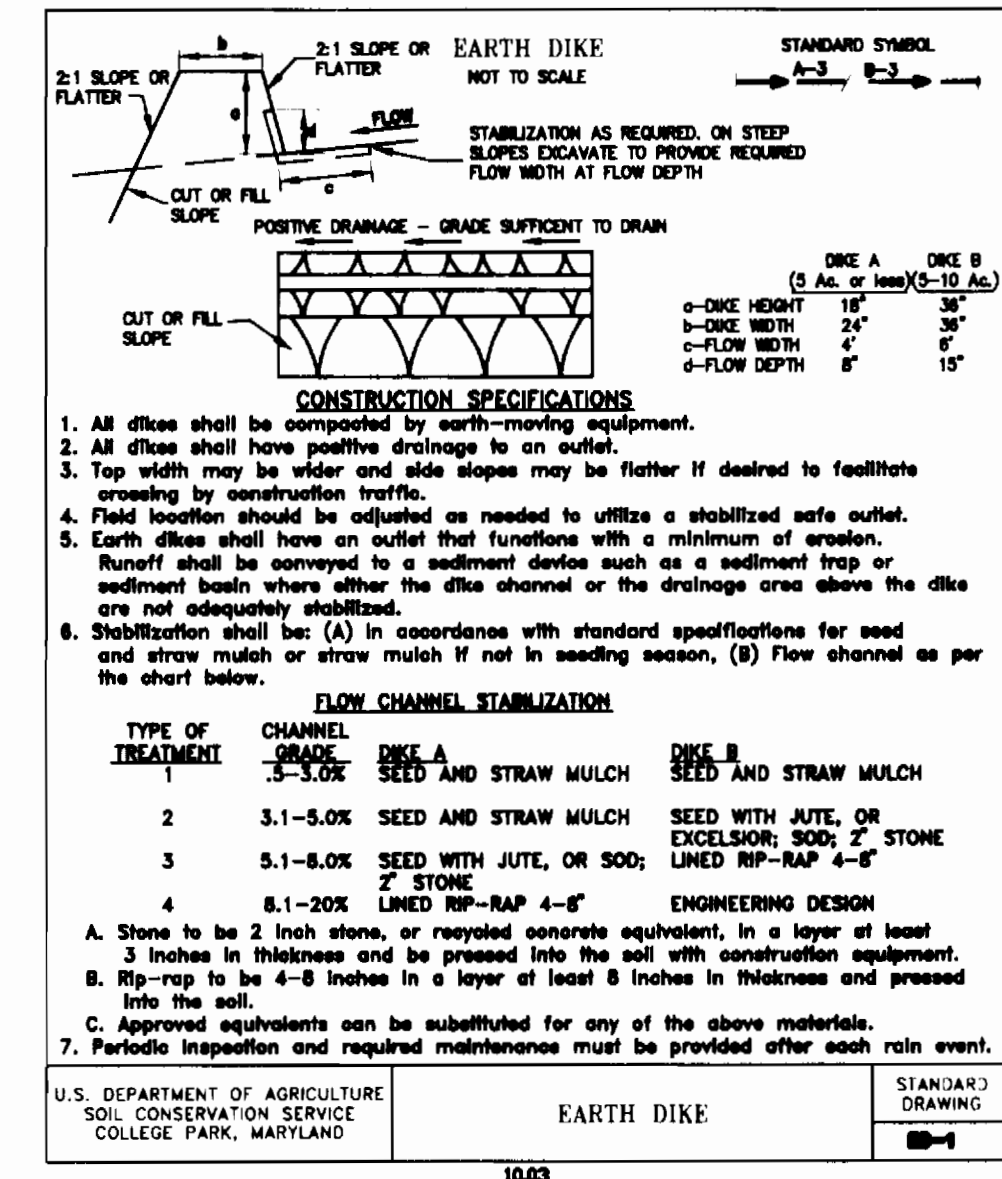
Mulching: Apply 1-1/2 to 2 tons per acre (70 to 90 lbs/1000 sf) of unrotted small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gallons per acre (5 gal/1000 sf) of emulsified asphalt on flat areas. On slopes 8 feet or higher, use 348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

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

SEDIMENT CONTROL NOTES

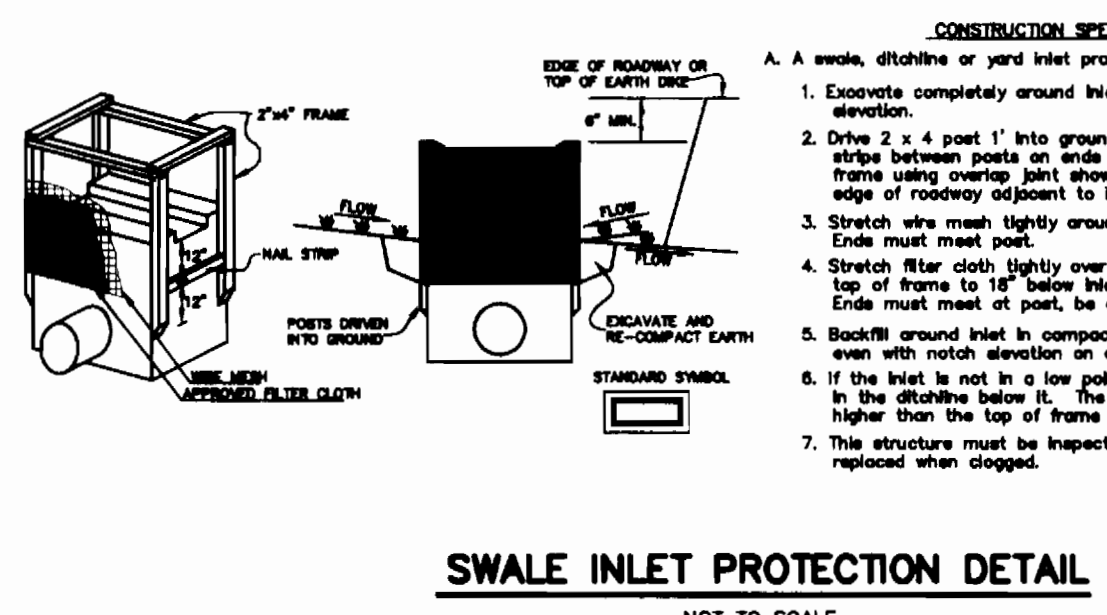
- A minimum of 48 hours notice must be given to the Howard County Department of Inspections and Permits, Sediment Control Division prior to the start of any construction (313-1855).
- All vegetative and structural practices are to be installed according to the provisions of this plan and are to be in conformance with the most current Maryland Standards and Specifications for Soil Erosion and Sediment Control, and revisions thereto.
- Following initial soil disturbances or redisturbances, 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 calendar days or less 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 "1991 Maryland Standards and Specifications for Soil Erosion and Sediment Control" for Permanent Seedings (Sec. 31) Sod (Sec. 54), Temporary Seeding (Sec. 50) and Mulching (Sec. 52). Temporary stabilization with mulch alone can only be done when recommended seeding 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:	2.19 acres
Area to be Disturbed:	0.82 acres
Area to be roofed or paved:	0.000 acres
Area to be vegetatively stabilized:	0.62 acres
Total Cut:	0 cy.
Total Fill:	0 cy.
- 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.
- 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, whichever is shorter.
- Quantities and estimates shown are for sediment control purposes only. Contractor shall prepare his/her own quantity estimates to his/her satisfaction.
- 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 its grading permit number at the time of construction.

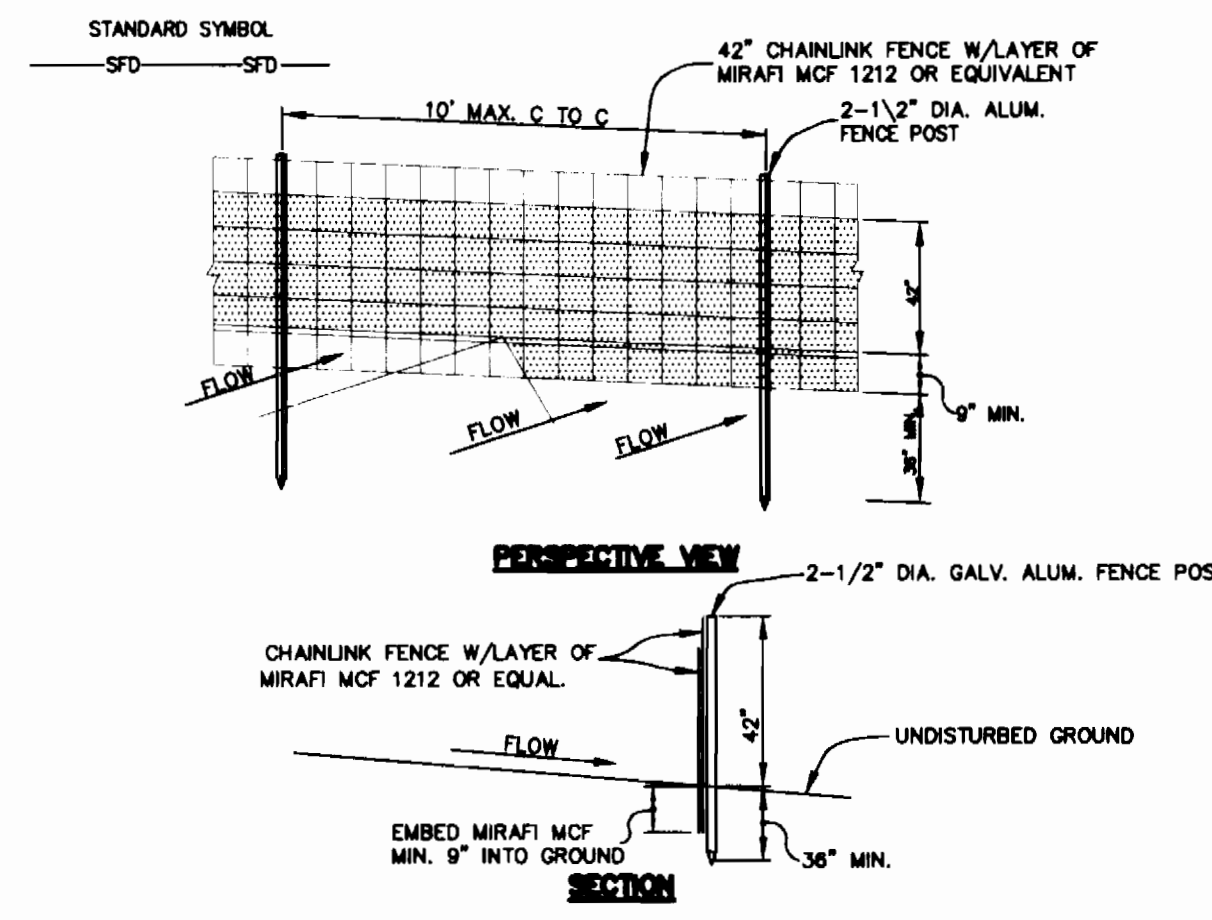


SEQUENCE OF CONSTRUCTION

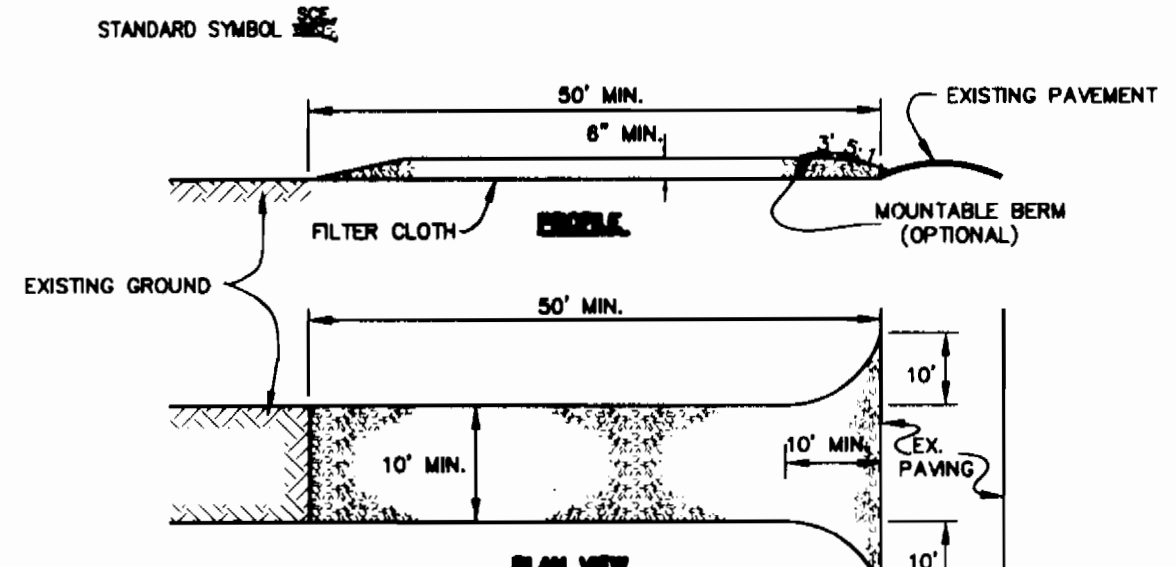
- Notify Sediment Control Division 48 hours prior to start of construction.
- Obtain construction permit
  - Install sediment and erosion control devices and stabilize.
  - Construct water and sewer lines.
  - Construction shall be limited to 3 pipe length at one time.
  - Backfill and stabilize in accordance with standards and specifications.
  - Upon approval of the sediment control inspector, remove sediment and erosion control devices and stabilize.



SWALE INLET PROTECTION DETAIL  
NOT TO SCALE



SUPER FENCE DIVERSION DETAIL  
NOT TO SCALE



STABILIZED CONSTRUCTION ENTRANCE  
NOT TO SCALE

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

*John R. Roberts* 12/13/94  
HOWARD SOIL CONSERVATION DISTRICT

SEDIMENT CONTROL MEASURES FOR THIS CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE HOWARD COUNTY STANDARD SPECIFICATIONS (EP-95-10)

HOWARD SOIL CONSERVATION DISTRICT  
REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS

*Patricia Engle* 12/13/94  
U.S. SOIL CONSERVATION SERVICE

OWNER/DEVELOPER  
CORNERSTONE HOMES  
6571 HUNTSVILLE DRIVE  
ELKCRIDGE, MARYLAND 21227  
(410) 379-0157

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND

*James J. ...* 12/15/94  
DIRECTOR OF PUBLIC WORKS

*Jeff K. ...* 12-14-94  
CHIEF, BUREAU OF UTILITIES

*Robert ...* 12/15/94  
CHIEF, BUREAU OF ENGINEERING

*...* 12/15/94  
CHIEF, LAND DEVELOPMENT DIVISION

TSA GROUP, INC.  
planning • engineering • surveying  
8480 Baltimore National Pike • Suite 418  
Ellicott City, Maryland 21043

DES:	YSL				
DRN:	YSL				
CHK:	CAM				
DATE:	11/3/94	BY	NO.	REVISIONS	DATE

EROSION & SEDIMENT CONTROL PLAN  
FOR  
WATER & SEWER EXTENSION

600 SCALE MAP NO. 50  
BLOCK "3"

NORTH LAUREL PARK  
BLOCK "R"  
LOTS 1 THRU 10  
HOWARD COUNTY ELECTION DISTRICT NO. 6  
CONTRACT NO. 24-3388-D

SCALE AS SHOWN  
SHEET 2 OF 2