

**SEDIMENT & EROSION CONTROL FOR OUTFALL SEWER CONSTRUCTION**

**PERMANENT SEEDING NOTES**

APPLY TO GRADED OR CLEARED AREAS 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, disking 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 the time of seeding, apply 400 lbs. per acre 30-0-0 urea fertilizer (8 lbs./1000 sq.ft.)
- 2) Acceptable - Apply 2 tons per acre dolomitic 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 80 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 (0.5 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 and 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 sq.ft.) of unrifled 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**

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, disking 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 ryegrass (3 lbs./1000 sq.ft.) For the period May 1 thru August 14, seed with 3 lbs. per acre of weeping lovegrass (0.7 lbs./1000 sq.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.

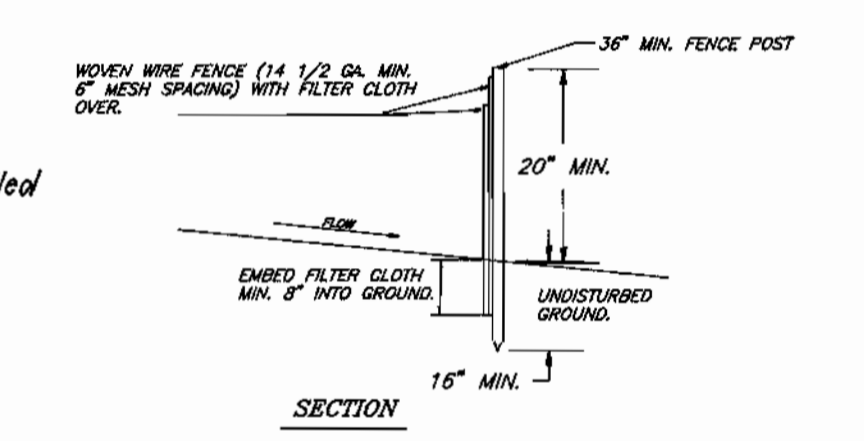
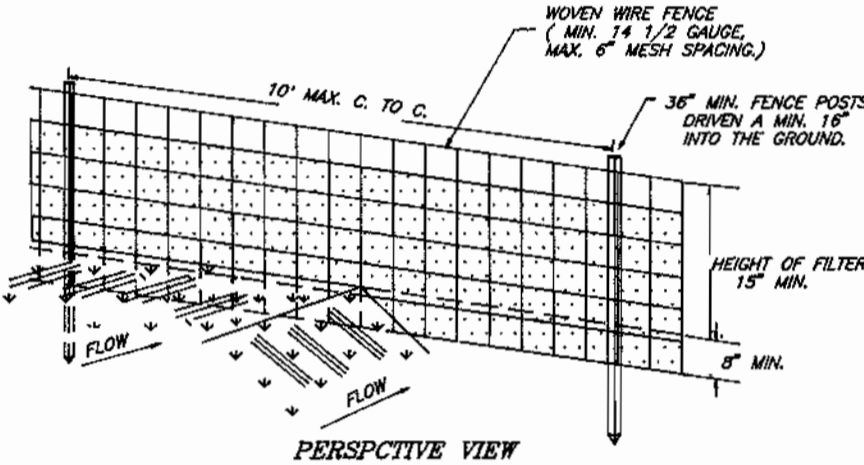
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REFER TO THE 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR RATE AND METHODS NOT COVERED.

**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. (31.3 - 18.50)
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 1983 MARYLAND STANDARDS AND SPECS. FOR SOIL EROSION AND SEDIMENT CONTROL.
3. Following initial soil disturbance or redistribution, 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 areas on the project site.
4. All sediment traps/basins shown must be fenced and warning signs posted around their perimeters in accordance with Vol. 1, Chapter 16 of the HOWARD COUNTY DESIGN MANUAL, Storm Drainage.
5. 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 seedings (Sec.60) 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.
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:	15.0 AC
Area Disturbed:	15.0 AC
Area to be roofed or paved:	3.5 AC
Area to be vegetatively stabilized:	15.0 AC
Total Cut:	16.00 CY
Total Fill:	16.00 CY
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 SPN 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 made.



STANDARD SYMBOL: S - S - S

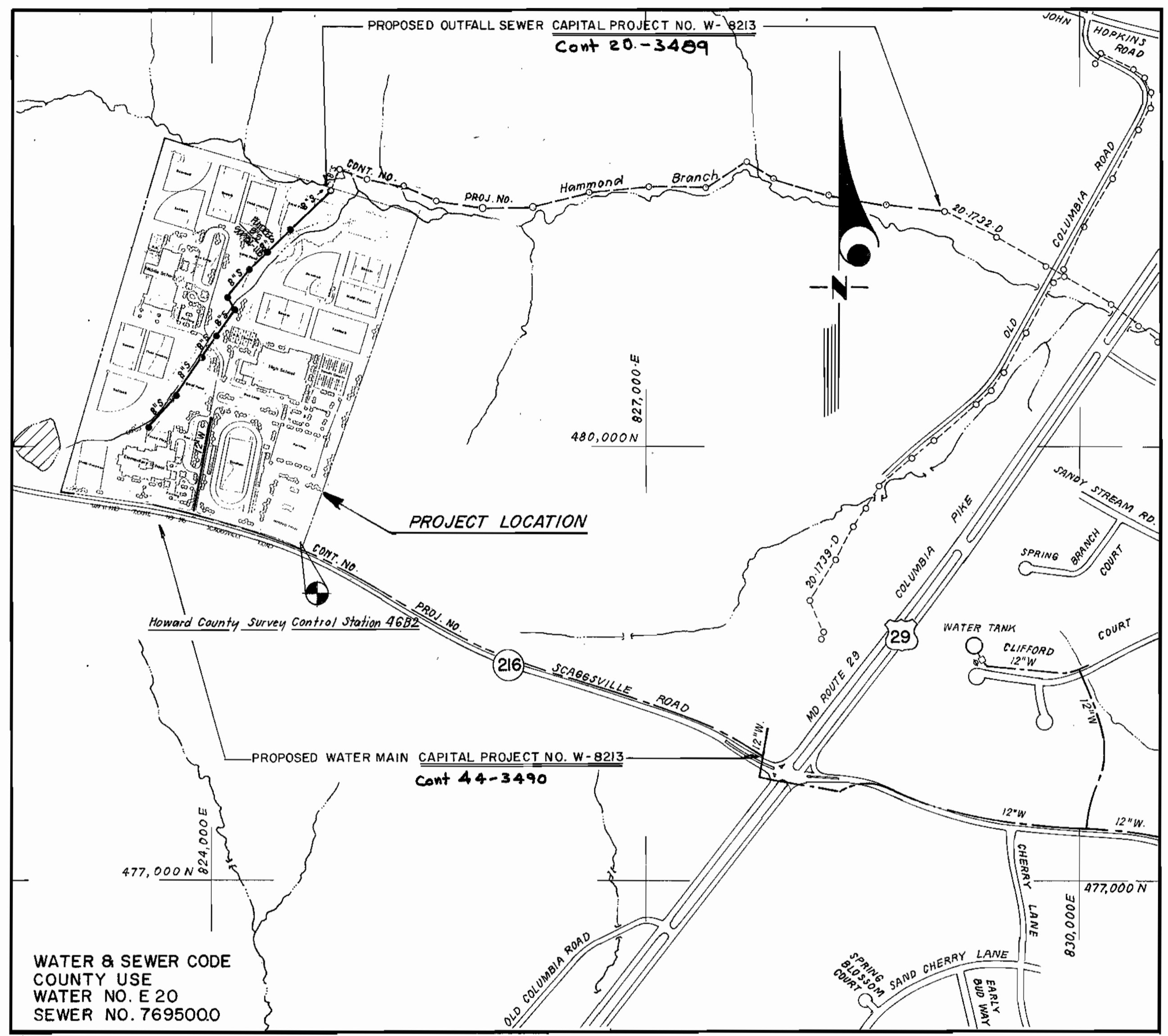
**CONSTRUCTION NOTES FOR FABRICATED SILT FENCE**

1. WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES.
2. FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION.
3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY SIX INCHES AND FOLDED.
4. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.

POSTS: STEEL EITHER T OR U TYPE OR 2" HARDWOOD.  
 FENCE: WOVEN WIRE, 14 GA. 6" MAX. MESH OPENING.  
 FILTER CLOTH: FILTER X, MARI-TODD, STABILINK, TITAN, OR APPROVED EQUAL.  
 PREFABRICATED UNIT: GEOPAR, ENVIRONMENTAL, OR APPROVED EQUAL.

SILT FENCE (S)  
 NO SCALE

SEE ADDITIONAL DETAILS ON SHEET NO. 6



VICINITY MAP  
 SCALE: 1" = 600'

TYPE OF BUILDING	ELEMENTARY SCHOOL
NO. OF LOTS	ONE
NO. OF WHC'S	ONE
NO. OF SHC'S	ONE
DRAINAGE AREA	PATUXENT

TREATMENT PLANT LITTLE PATUXENT WATER QUALITY MANAGEMENT CTR.

**GENERAL NOTES**

1. Approximate location of existing mains are shown. The contractor shall take all necessary precautions to protect existing mains and services and maintain uninterrupted supply. Any damage incurred shall be repaired immediately to the satisfaction of the inspector, at the contractor's expense.
2. All horizontal controls are based on Maryland State Coordinates.
3. All vertical controls are based on U.S.G.S. Datum.
4. All pipe elevations shown are invert elevations.
5. Clear all utilities by a minimum of 6" clear all poles by 2'-0" minimum or tunnel as required. Any cost incurred to the contractor for tunneling or bracing at poles shall be included in unit prices bid for excavation and backfill.
6. For details not shown on the drawings use Howard County Standard Details.
7. For materials and construction methods use Howard County Standard Specifications & Details and Howard County Design Manual, Volume IV (Latest Edition). The Contractor shall have copies of these on the job site.
8. Contractor shall locate existing utilities a minimum of two (2) weeks in advance of construction operations in the vicinity of proposed utilities at his own expense.
9. Contractor shall notify the following utilities or agencies at least five (5) working days before starting work shown on these plans.
  - State Highway Administration - 531-5533
  - Baltimore Gas & Electric Company - Underground Damage Control - 787-9068
  - Baltimore Gas & Electric Company - Contractor Services - 850-4620
  - Baltimore Gas & Electric Company - Trouble Shooting - 298-9001
  - "Miss Utility" - 1-800-257-7777
  - Chesapeake & Potomac (C & P) Telephone Company - 1-800-257-7777
  - Bureau of Utilities Howard County - 313-4900
  - Colonial Pipeline Company - 795-1390
10. Trees are to be protected from damage to maximum extent. Trees located within the construction strip are not to be removed or damaged by the contractor.
11. Contractor shall remove trees, stumps, and roots along line of excavation as directed by the Inspector. Payment for such removal shall be included in the bid for excavation and backfill.
12. Place regulation "Men Working" and warning signs as required to comply with Maryland State Highway Administration Manual of Traffic Control for Highway Construction and Maintenance Operations.
13. All water mains to be D.I.P. Class 52 unless otherwise noted.
14. Top of all water mains to have a minimum of 3'-1/2' cover unless otherwise noted.
15. Valves adjacent to tees shall be strapped to tees.
16. Block all fittings with concrete.
17. Bury line elevations on fire hydrants shall be set to the elevations shown on the drawings. All fire hydrants shall be restrained and buttressed with concrete in accordance with Std. Det. Will & W. 2.11 Soil around the fire hydrant to be compacted in accordance with Sections 1000 & 1005 of the Standard Specifications.
18. All water house connections shall be for an inside meter setting.
19. The contractor shall not operate any water main valves on the existing system.
20. All sewer mains shall be ... P.V.C., or D.I.P., unless otherwise noted.
21. All manholes shall be 4'-0" inside diameter, unless otherwise noted.
22. Water main and water house connection lines must have a minimum of one foot separation from the sanitary sewer and sewer house connections as they cross. Except at crossings, water and sewer lines shall have a minimum horizontal separation of 10'.
23. Manholes designated thus : WT, shall have a Watertight Frame and Cover.
24. This Contract CANNOT be placed in service until CAPITAL PROJECT NO. W-8213 is built and placed in service.

**CONTRACT NO.24-3452-D**

**WESTERN ELEMENTARY SCHOOL NO. 2**  
**PARCEL NO. 115**  
**HOWARD COUNTY, MARYLAND**  
**DEPARTMENT OF PUBLIC WORKS**

Sediment Control Measures will be implemented in accordance with Section 219 of the Specifications & with Site Development Plan SDP-95-118 ; Drawing 14 thru 17 Sediment & Erosion Control.

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENT.  
 SIGNATURE: *[Signature]* DATE: 10/13/95

U.S. SOIL CONSERVATION SERVICE  
 This Development Plan is approved for Soil Erosion and Sediment Control by the Howard Soil Conservation District.

APPROVED: *[Signature]* DATE: 10/13/95  
 Howard S.C.D.

**CONSTRUCTION SEQUENCE:**

1. Obtain all necessary permits. (Wetlands Permit No. 19-95-67-654)
2. Install Sediment Control Devices.
3. Obtain approval of Sediment Control Inspector before proceeding with construction.
4. Install 8" Sewer, placing excavated dirt on the high side of the trench.
5. Stabilize all disturbed areas.
6. Obtain approval of Sediment Control Inspector before removing Sediment Control Devices.

NOTE: Contractor shall meet all conditions set forth in the terms of the Wetlands Permit.

NOTE: REVISIONS MADE HEREAFTER 7/24/96 ARE PREPARED BY JOYCE ENGINEERING CORPORATION 10706 BALTIMORE AVE. BELTERRA, MD 20705 PHONE (301) 576-4333



QUANTITIES				
ITEM	AS BUILT			
	ESTIMATED	QUANTITIES	TYPE	MANUFACTURER / SUPPLIER
12" W	755 LF	755 LF	D.I.P. CL 52 TYPON JOINT	GRIFFIN PIPE PRODUCTS CO.
8" W	10 LF	10 LF	" " " " " "	" " " " " "
FIRE HYDRANT	2 EA	2	CENTURION HILL GATE	MUELLER CO./BELAIR ROAD SUPPLY
8" V	1 EA	1	" " " " " "	" " " " " "
12" V	1 EA	1	" " " " " "	" " " " " "
8" S (D.I.P.)	247 LF	240 LF	D.I.P. CL 52 TYPON JOINT	GRIFFIN PIPE PRODUCTS CO.
8" S (other)	1,892 LF	1,883 LF	" " " " " "	J.M. MANUFACTURING CO./BELAIR RD. SUPPLY
4'-0" I.D. MANHOLE	8 EA	8	PRECAST CONCRETE	ATLANTIC CONCRETE PRODUCTS
8" PLUG	1 EA	1	" " " " " "	" " " " " "

NAME OF UTILITY CONTRACTOR: PEAK INCORPORATED  
 SURVEY & DRAFTING DIV.-AS BUILT DATE:  
 \* EXTENSION PIECE FOR BUTTRESS PLACED @ STA. 0+00 (12x8) FHT.

DEPARTMENT OF PUBLIC WORKS  
 HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING & ZONING  
 HOWARD COUNTY, MARYLAND

CFS CLARK, FINEPROCK & SACKETT, INC.  
 ENGINEERS - PLANNERS - SURVEYORS  
 7135 MINSTREL WAY COLUMBIA MARYLAND 21045  
 (301) 381-7500 BALTO. (301) 621-8100 WASH.



DES: JTR					
DRN: JTR					
CHK: CM	YCC	AD	ADD NEW BASEMENT, RELOCATED THE OLD NEW SEWER LIT	10/2/04	
	JEB	1	ADJUSTED TO ON OFFICIAL VICINITY MAP	7/26/76	
DATE: MAY, 95	BY NO.		REVISION	DATE	

TITLE SHEET  
 600' SCALE MAP NO. 41B 46, BLOCK NO. 20821 and 283

WESTERN ELEMENTARY SCHOOL NO. 2  
 PARCEL NO. 115  
 FIFTH (5th) ELECTION DISTRICT  
 HOWARD COUNTY, MARYLAND  
 CONTRACT NO. 24-3452-D

SCALE AS SHOWN  
 SHEET 1 OF 6

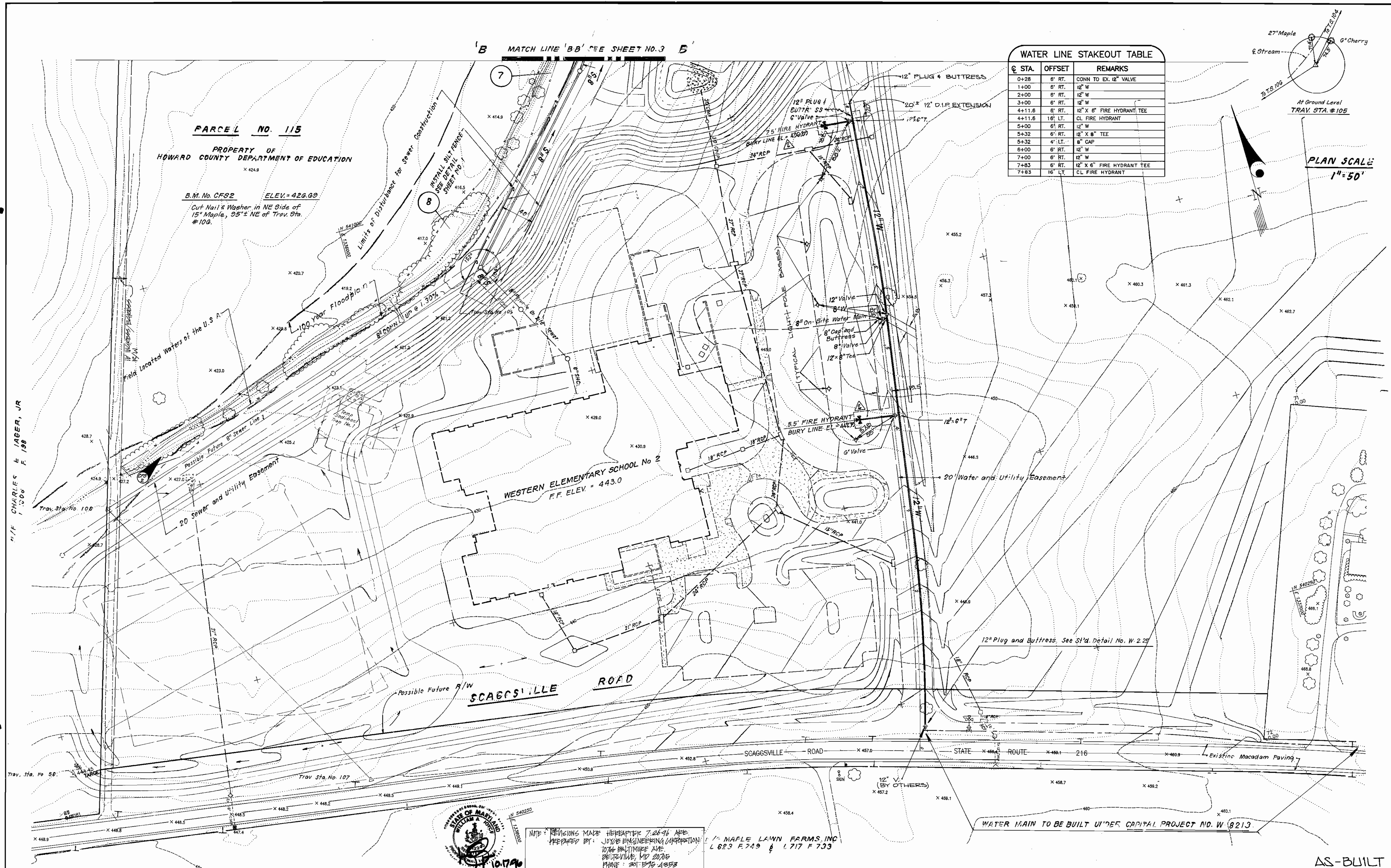
3452 Western Elem. School #2 ws/1





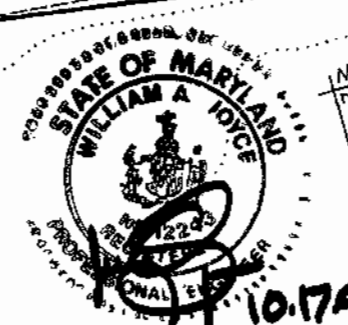


3452 ws/4 Western Elem. School



Q STA.	OFFSET	REMARKS
0+28	8' RT.	CONN TO EX. 12" VALVE
1+00	8' RT.	12" W
2+00	8' RT.	12" W
3+00	8' RT.	12" W
4+11.6	8' RT.	12" X 6" FIRE HYDRANT TEE
4+11.6	16' LT.	CL FIRE HYDRANT
5+00	6' RT.	12" W
5+32	6' RT.	12" X 8" TEE
5+32	4' LT.	8" CAP
6+00	8' RT.	12" W
7+00	8' RT.	12" W
7+83	8' RT.	12" X 6" FIRE HYDRANT TEE
7+83	16' LT.	CL FIRE HYDRANT

P/I/E CHARLES E. JAGER, JR  
1.3.00  
F. 198



NOTE: REVISIONS MADE HEREAFTER 7-20-96 APE  
 PREPARED BY: JOYCE ENGINEERING CORPORATION  
 10746 BALTIMORE AVE  
 BELTSVILLE, MD 20806  
 PHONE: 301-276-1853

1/4" MAPLE LAWN FARMS, INC  
 L 623 F 749 & L 717 F 733

DEPARTMENT OF PUBLIC WORKS  
 HOWARD COUNTY, MARYLAND

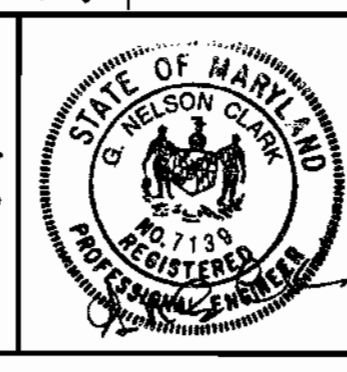
Robert Bauman 10-11-95  
 CHIEF, BUREAU OF UTILITIES

DEPARTMENT OF PLANNING & ZONING  
 HOWARD COUNTY, MARYLAND

10/11/95  
 CHIEF, DEVELOPMENT ENGINEERING DIVISION

**CFE** CLARK-FINEPROCK & SACKETT, INC.  
 ENGINEERS-PLANNERS-SURVEYORS

7135 MINSTREL WAY COLUMBIA MARYLAND 21045  
 (410) 381-7500 BALTO. (301) 821-8100 WASH.



DES:	JTR				
DRN:	JTR				
CHK:	CM	YJC	ADD NEW EASEMENT, RELOCATED MH & ADD NEW SEWER MH	10/29/04	
DATE:	MAY, 95	JJC	REVISED & ADDED 16" INGRESS/EGRESS P/W	7-24-96	
BY:	NO.		REVISION	DATE	

PLAN VIEW OF  
 WATER & SEWER LINES

600'SCALE MAP NO. 41 & 46, BLOCK NO. 22 & 21 and 2 & 3.

WESTERN ELEMENTARY SCHOOL NO. 2  
 PARCEL NO. 115  
 FIFTH (5th) ELECTION DISTRICT  
 HOWARD COUNTY, MARYLAND  
 CONTRACT NO. 24-3452-D

SCALE  
 AS SHOWN

SHEET  
 4 OF 6

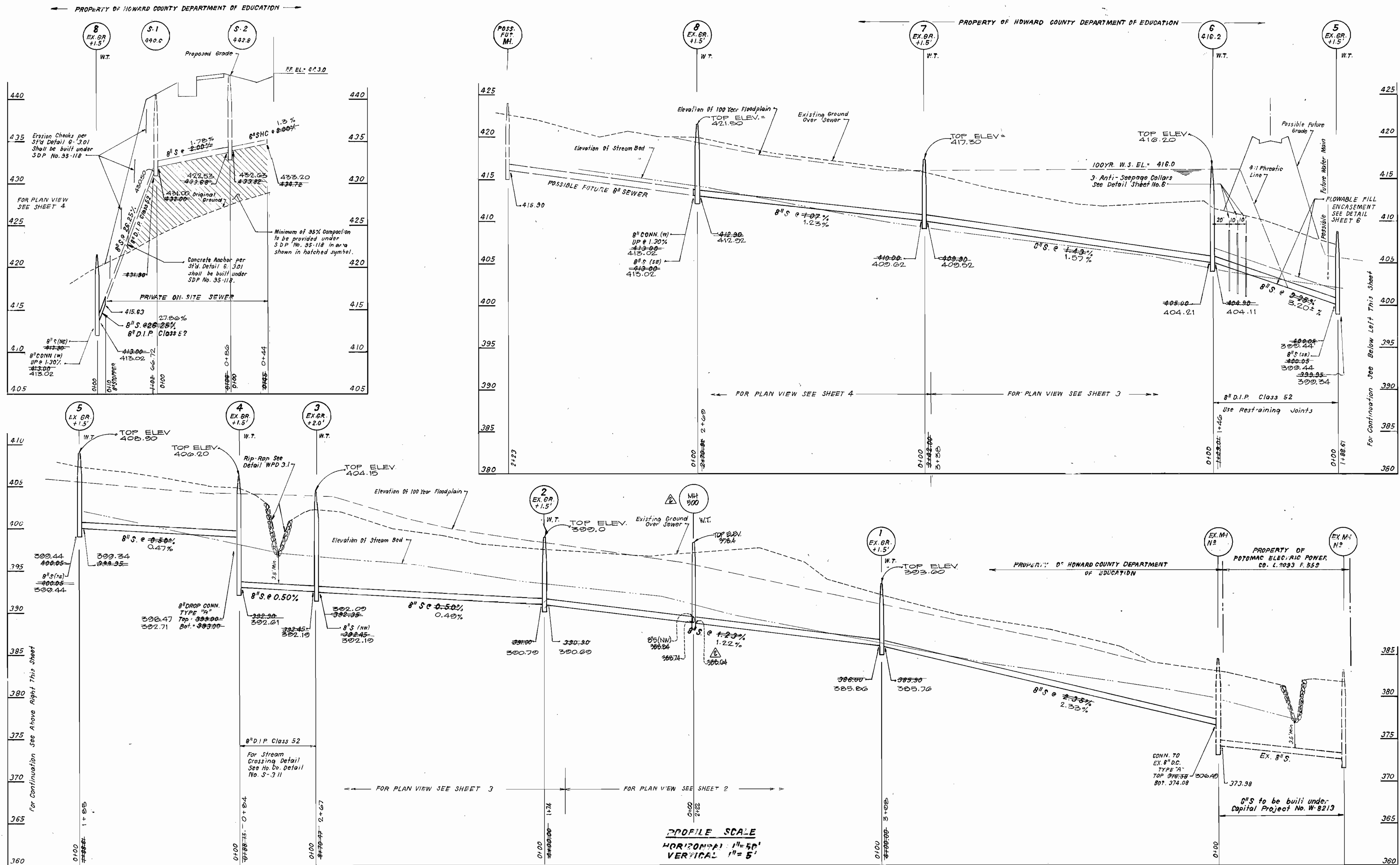
AS-BUILT

10-9-95



CFS-94-204



3452 ws/5 Western Elem. School



AS-BUILT

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND  <i>Robert W. Rainey</i> CHIEF, BUREAU OF UTILITIES 10-11-95 DATE	DEPARTMENT OF PLANNING & ZONING HOWARD COUNTY, MARYLAND  <i>Howard W. Rainey</i> CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE	 <b>CLARK · FINEPROCK &amp; SACKETT, INC.</b> ENGINEERS · PLANNERS · SURVEYORS 7135 MINSTREL WAY COLUMBIA MARYLAND 21045 (410) 381-7600 BALTO. (301) 821-8100 WASH.	 DES: JTR DRN: JTR CHK: CM DATE: MAY, 95 BY: NO.	REVISION 1. ADD NEW ENCASMENT, RELOCATED MH & ADD NEW SEWER MH 12/3/04	PROFILES OF WATER & SEWER LINES  600' SCALE MAP NO. 41.8.45, BLOCK NO. 20.821 and 2.83	WESTERN ELEMENTARY SCHOOL NO. 2 PARCEL NO. 115 FIFTH (5th) ELECTION DISTRICT HOWARD COUNTY, MARYLAND CONTRACT NO. 24-3452-D	SCALE AS SHOWN  SHEET 5 OF 6
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AS-BUILT 9/1/06 CFS-94-204

