BENCHMARKS

TRAVERSE POINT 102 ELEVATION 346.19 N 536,499.165 E 1,353,974.017 LOCATED NEAR THE INTERSECTION OF GORMAN ROAD AND SKYLARK BLVD.

TRAVERSE POINT 1154 ELEVATION 347.45 N 536,018.069 E 1,355,129.333 LOCATED NEAR THE I-95 BRIDGE ALONG GORMAN ROAD

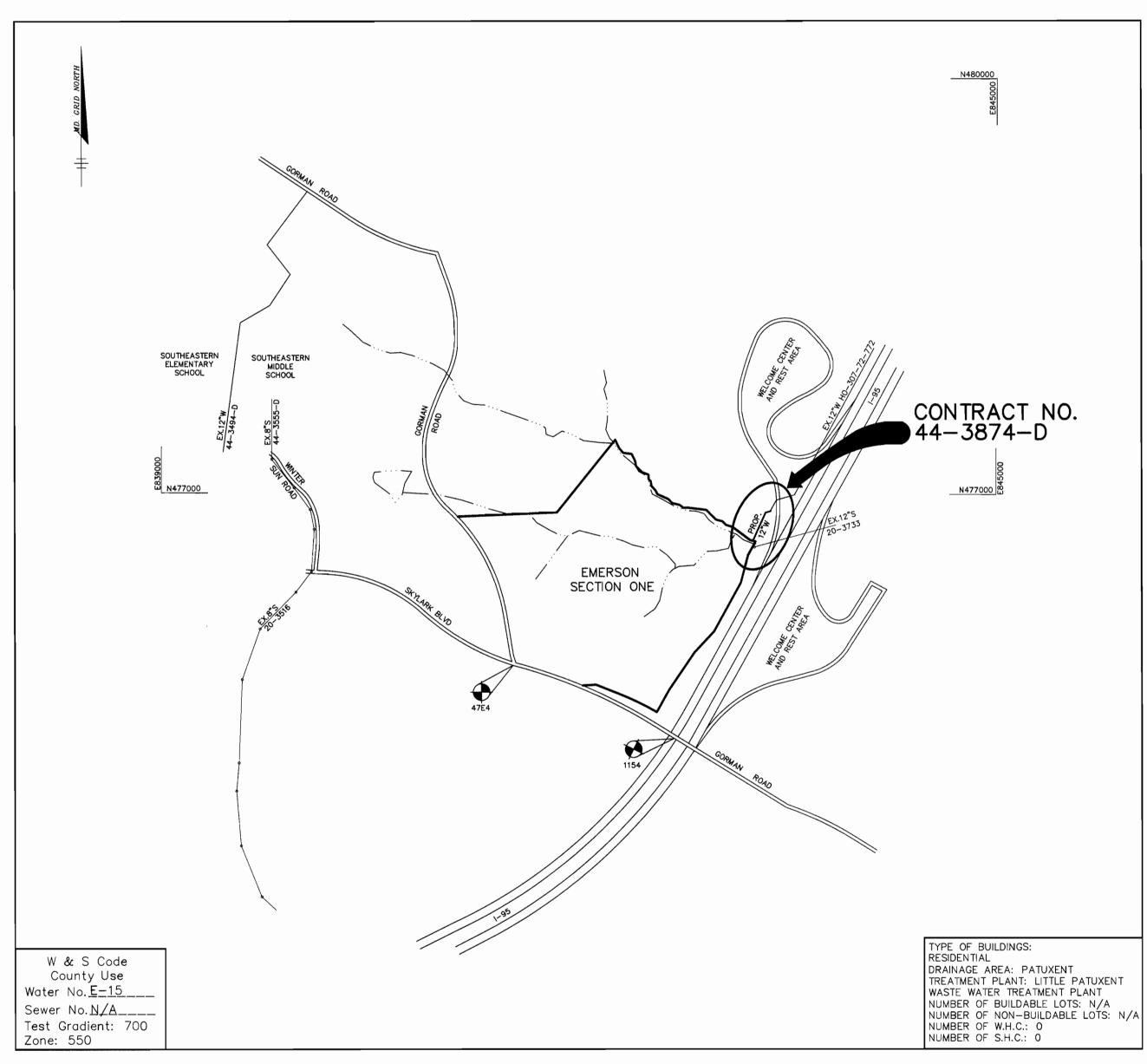
HOWARD COUNTY CONTROL STATION 47E4 ELEVATION 339.00 N 535,846.16 E 1,355,431.23 LOCATED NEAR THE I-95 BRIDGE ALONG GORMAN ROAD

AS-BUILT QUANTITIES ITEMS MANUFACTURER / SUPPLIER ESTIMATED TYPE QUANTITIES 12" WATER 260 LF 12" VALVE 1 EA CONCRETE ANCHORS 8 EA

OFF-SITE WATER EXTENSION

FMFRSON SECTION ONE

6th ELECTION DISTRICT HOWARD COUNTY, MARYLAND CONTRACT NO. 44-3874-D



VICINITY MAP SCALE : 1"=600'

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 Engineer at the Contractor's
- 2. All horizontal controls are based on Maryland State Coordinates.
- 3. All vertical controls are based on U.S.G.S. data
- 4. All pipe elevations shown or are invert elevations.
- 5. Clear all utilities by a minimum of 6". Clear all poles by 2'-0" minimum or tunnel as required. The owner has contacted the utility companies and has made arrangements for bracing of poles as shown on the drawings. In the event the contractor's work requires the bracing of additional poles, any cost incurred by the owner for bracing of additional poles or damages shall be deducted from money owed the contractor. The contractor shall coordinate with the utility companies to schedule the bracing of the poles.
- 6. For details not shown on the drawings, and for materials and construction methods use Howard County Design Manual, Volume IV, Standard Specifications and Detail for Construction. (Latest Edition). The contractor shall have a copy of Volume IV on the job.
- 7. Where test pits have been made on existing utilities, they are noted by the symbol at the location of the test pit. A note or notes containing the results of the test pit or pits is included on the drawings. Existing utilities in the vicinity of the proposed work for which test pits have not been dug shall be located by the contractor two weeks in advance of construction operations at his own expense.
- 8. Contractor shall notify the following utility companies or agencies at least five working days before starting work shown on these plans: 410-531-5533

State Highway Administration BGE Contractor Services BGE Underground Damage Control

Miss Utility Colonial Pipeline Co.

410-850-4620 410-291-4607 1-800-257-7777 410-549-4120 Bureau of Utilities, Howard County Department of Public Works 410-313-4900 1-800-446-5266

9. Trees and shrubs are to be protected from damage to maximum extent. Trees and shrubs located within the construction strip are not to be removed or damaged by the contractor.

- 10. Contractor shall remove trees, stumps and roots along line of excavation. Payment for such removal shall be included in the unit price bid for construction of the main.
- 11. All water mains to be D.I.P. Class 52 unless otherwise noted.
- 12. Tops of all water mains to have a minimum of 3-1/2' cover unless otherwise
- 13. Valves adjacent to tees shall be strapped to tees.
- 14. All fittings shall be buttressed or anchored with concrete in accordance with the Standard Details unless otherwise provided for on the drawings.
- 15. Fire hydrants shall be set to the bury line elevations shown on the drawings. All fire hydrants shall be restrained and buttressed with concrete in accordance with Standard Details. Soil around the fire hydrant shall be compacted in accordance with Section 1000 and 1005 of the Standard Specifications.
- 16. The contractor shall not operate any water main valves on the existing
- 17. All water house connections shall be for inside meter setting unless otherwise noted on plans or in specifications.
- 18. Contractor is solely responsible for construction means, methods, techniques, sequences, procedures, and safety precautions and programs.
- 19. The fire hydrant shall be installed as per standard detail W.1.11.
- 20. Fire hydrants will be located 3' FROM BACK OF CURB unless otherwise noted.
- 21. For sprinkler systems, all townhomes or multi-family dwelling units should have a minimum of 1" connection with a 3/4" meter.
- 22. The contractor shall notify the Bureau of Highways, Howard County, at (410) 313-2450 at least five (5) working days before any open cut of any County road or boring\jacking operation in County roads for laying water\sewer mains or house connections. The approval of these drawings will constitute compliance with DPW requirements per Section 18.114(a) of the Howard County Code.
- 23. Howard County DPW is hereby granted permission to access private lots shown on these plans in order to maintain public water and sewer house connections at the curb stops and/or cleanouts.
- 24. State Highway Utility Pemit issued for this construction, Permit # 7-ho-5497.

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND

NAME OF UTILITY CONTRACTOR

Sediment control measures for this contract will be implemented in accordance with Section

This plan is approved for soil erosion and

HOWARD SOIL CONSERVATION DISTRICT

sediment control by the Howard Soil Conservation

DEPARTMENT OF PLANNING & ZONING HOWARD COUNTY, MARYLAND

RILLE 8-15-00 HOW CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

CHECKBOX

AS-BUILT DATE

SURVEY AND DRAFTING DIVISION



A Constitution of the Cons	
ARTHUR E. MUEGGE #8707	_ 7

DES: C.J.R.					
DRN: DAM					 TITLE SHEET
CHK:					
DATE: 8/9/00	BY	NO.	REVISION D.	ATE	600' SCALE MAP NO. 47 BLOCK NO. 3, 8 & 9

OFF-SITE WATER EXTENSION EMERSON SECTION ONE

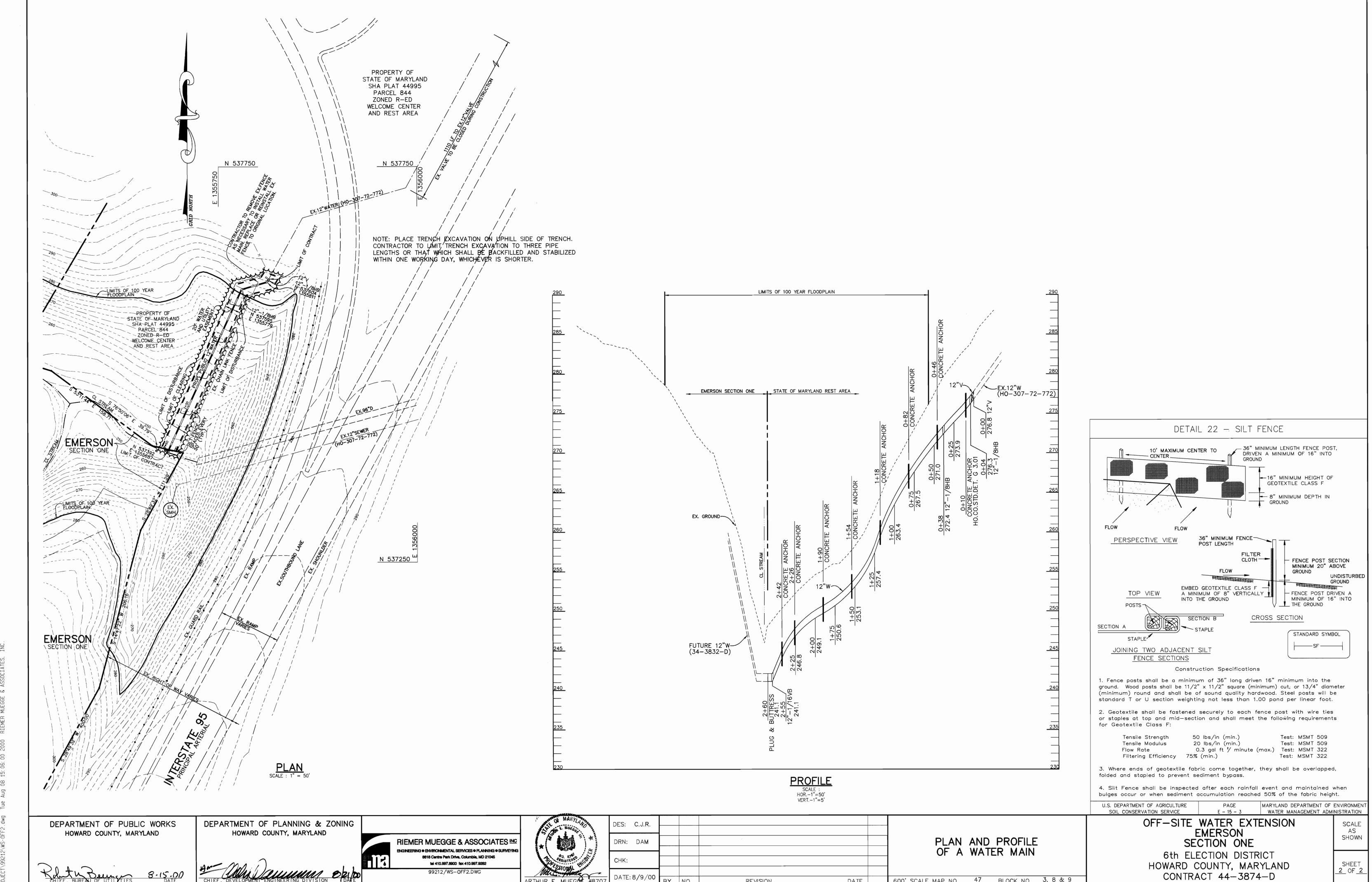
6th ELECTION DISTRICT HOWARD COUNTY, MARYLAND CONTRACT 44-3874-D

SHOWN

SCALE

SHEET

1 OF 2



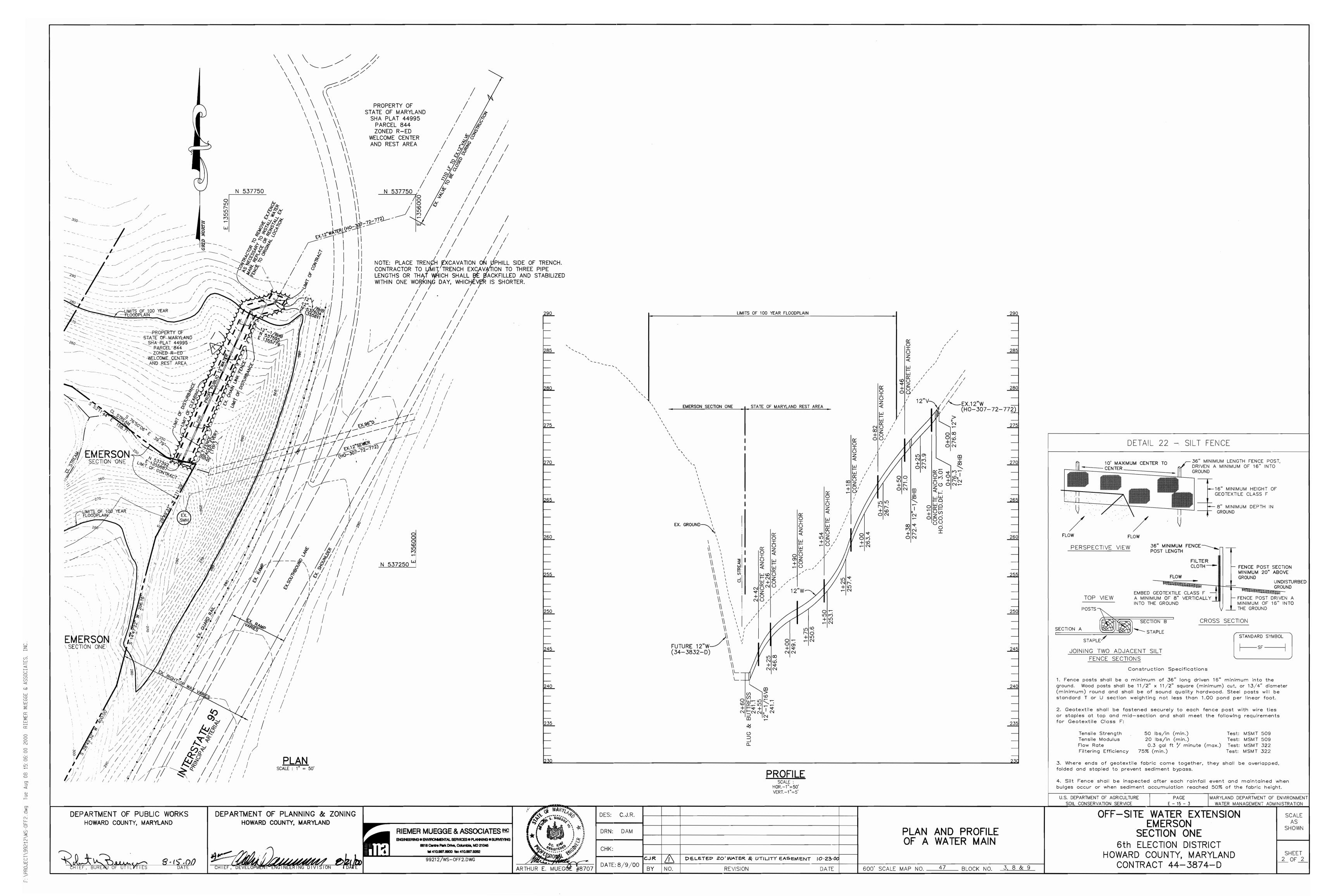
BY NO.

REVISION

DATE

ARTHUR E. MUEGGE

600' SCALE MAP NO. 47 BLOCK NO. 3, 8 & 9



SHEET INDEX

TITLE SHEET PLAN AND PROFILE OF A WATER MAIN

BENCHMARKS

TRAVERSE POINT 102 ELEVATION 346.19 N 536,499.165 E 1,353,974.017 LOCATED NEAR THE INTERSECTION OF GORMAN

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AS-BUILT ITEMS ESTIMATED QUANTITIES TYPE 12" WATER GRIFFIN PIPE 260 LF 260 L.F. CL-52 12" VALVE 1 EA CATE VALVE IEA CONCRETE ANCHORS ELIMINATED)

NAME OF UTILITY CONTRACTOR : C.C.S. (HTI SUBCONTRACTOR) CHECKBOX Sediment control measures for this contract will be implemented in accordance with Section AS-BUILT DATE

NATURAL RESOURCES CONSERVATION SERVICE

This plan is approved for soil erosion and sediment control by the Howard Soil Conservation

DEPARTMENT OF PUBLIC WORKS

HOWARD COUNTY, MARYLAND

HOWARD SOIL CONSERVATION DISTRICT

DATE

DEPARTMENT OF PLANNING & ZONING HOWARD COUNTY, MARYLAND

SURVEY AND DRAFTING DIVISION



RIEMER MUEGGE & ASSOCIATES NO EERING ● ENVIRONMENTAL SERVICES ● PLANNING ● SURVEYING 8818 Centre Park Drive, Columbia, MD 21045 tel 410.997.8900 fex 410.997.9282 99212/WS-OFF1.DWG

W & S Code

County Use

Test Gradient: 700

Water No.<u>E-15</u>

Sewer No. N/A_

Zone: 550

SOUTHEASTERN ELEMENTARY SCHOOL

SOUTHEASTERN



DES: C.J.R. DRN: DAM ASBUILT DATA ADDED TO PLAN DATE **REVISION**

TITLE SHEET

EMERSON SECTION ONE 6th ELECTION DISTRICT HOWARD COUNTY, MARYLAND

OFF-SITE WATER EXTENSION

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Miss Utility

Colonial Pipeline Co. Bureau of Utilities, Howard County Department of Public Works 410-313-4900 Bell Atlantic

410-291-4607 1-800-257-7777 410-549-4120 1-800-446-5266

410-850-4620

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VICINITY MAP SCALE : 1"=600'

EMERSON SECTION ONE

OFF-SITE WATER EXTENSION

SECTION ONE

6th ELECTION DISTRICT

HOWARD COUNTY, MARYLAND

CONTRACT NO. 44-3874-D

CONTRACT NO.

TYPE OF BUILDINGS:

NUMBER OF W.H.C.: 0

NUMBER OF S.H.C.: C

DRAINAGE AREA: PATUXENT

TREATMENT PLANT: LITTLE PATUXENT

NUMBER OF NON-BUILDABLE LOTS: N/A

WASTE WATER TREATMENT PLANT NUMBER OF BUILDABLE LOTS: N/A

RESIDENTIAL

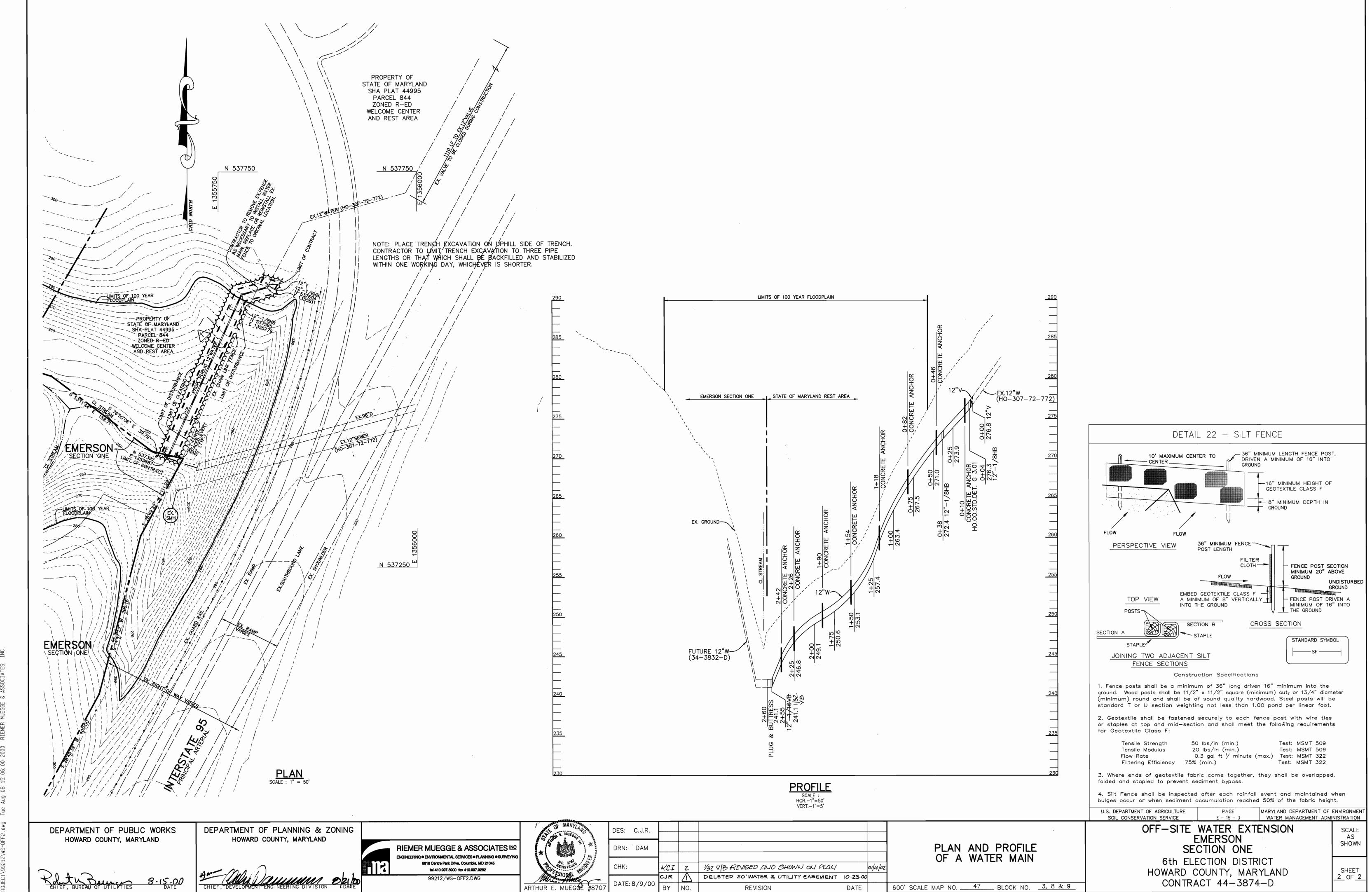
CONTRACT 44-3874-D

SCALE AS SHOWN

SHEET

_ OF _2

600' SCALE MAP NO. 47____ BLOCK NO. 3, 8 & 9



DATE

REVISION