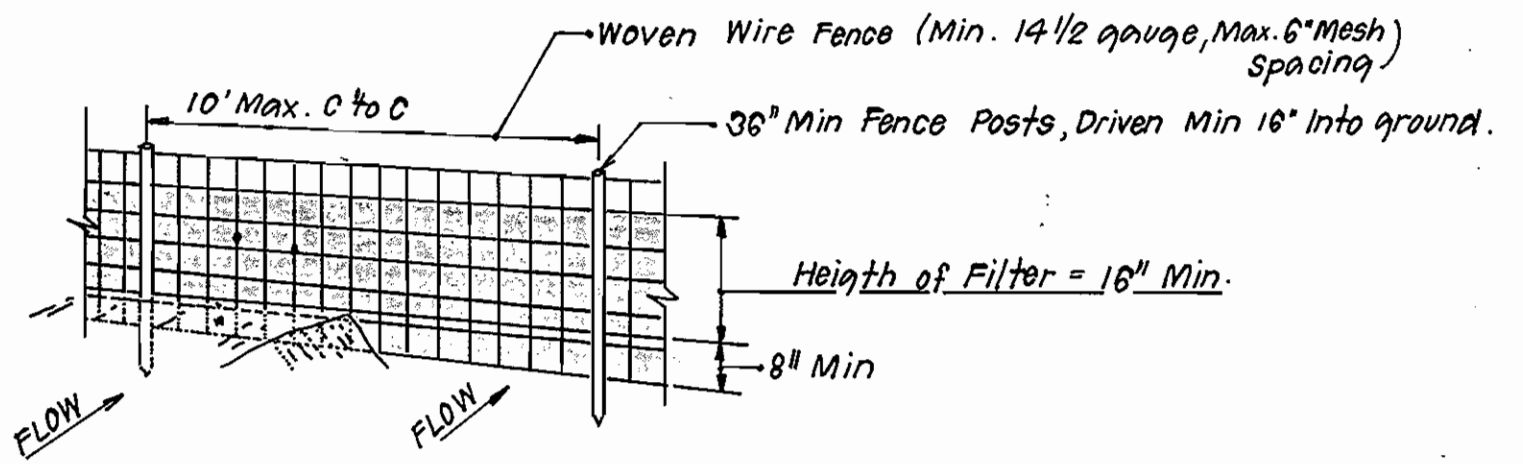
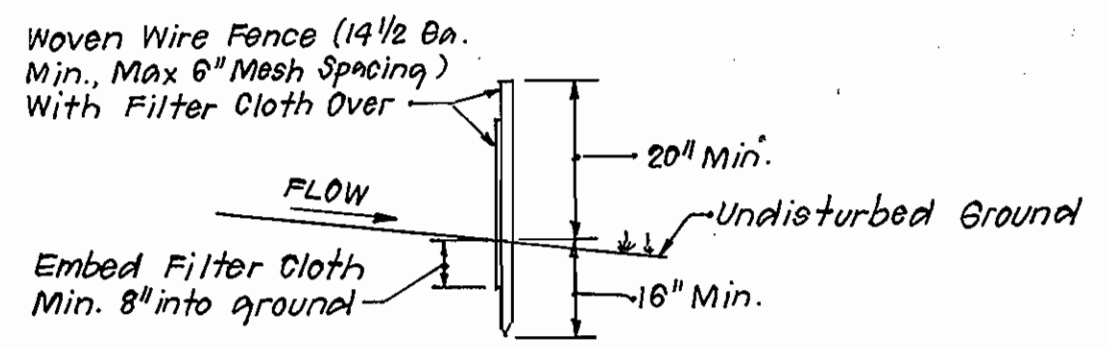


**JACKING OR BORING INSTALLATION DETAIL**  
NOT TO SCALE



**PERSPECTIVE VIEW**



**SECTION**

**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 8" 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 gauge, 6" Max. Mesh Opening.  
Filter Cloth: Filter X, Mirafi 100 X Stabilka T 140N or approved equal.  
Prefabricated Unit: Beofnb, Envirofence, or approved equal.

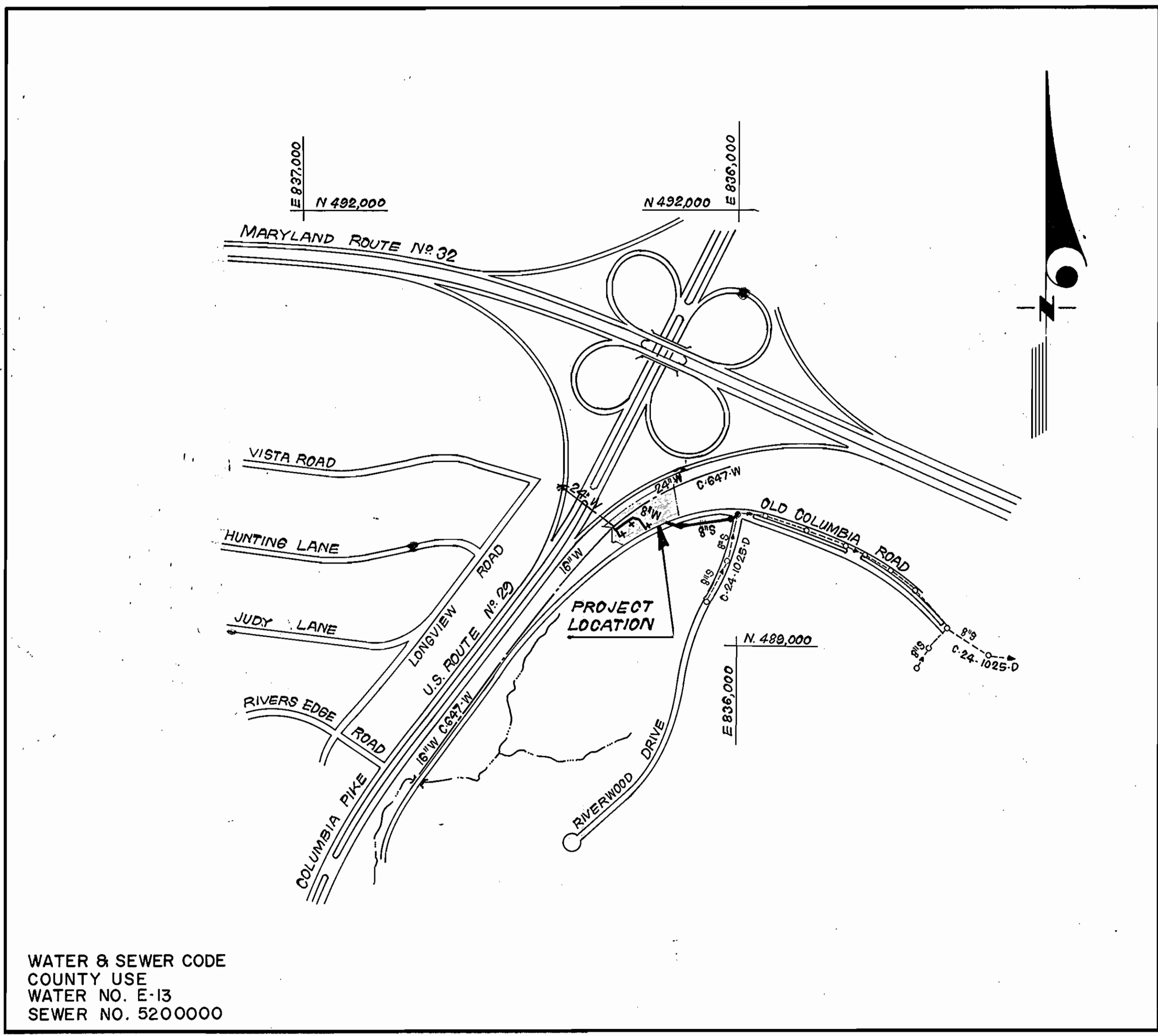
**SILT FENCE DETAIL**  
NOT TO SCALE

Sediment Control Measures will be implemented in accordance with Section 219 of the Specifications & with Road Construction Plans 90-45; Drawing Sediment & Erosion Control.

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENT  
*[Signature]* 12-6-89  
SIGNATURE DATE  
U.S. SOIL CONSERVATION SERVICE

This Development Plan is approved for Soil Erosion and Sediment Control by the Howard Soil Conservation District.

APPROVED  
*[Signature]*  
HOWARD S.C.D. DATE



WATER & SEWER CODE  
COUNTY USE  
WATER NO. E-13  
SEWER NO. 5200000

**VICINITY MAP**  
SCALE: 1" = 600'

**CONTRACT NO.24-1990 - D**  
**SELF STORAGE FACILITY**  
**OLD COLUMBIA ROAD**  
**PARCEL 248 TAX MAP 41**  
**HOWARD COUNTY, MARYLAND**  
**DEPARTMENT OF PUBLIC WORKS**

TYPE OF BUILDING	WAREHOUSE
NO. OF BUILDINGS	2
NO. OF WHC's	2
NO. OF SHC's	1
DRAINAGE AREA	LITTLE PATUXENT

**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 and Howard County Design Manual, Volume IV, 1989 Amendments. The Contractor shall have Volume IV, 1989 Amend. 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 - 859-9004  
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 - 992-2366  
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 unit price 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 strapped and buttressed with concrete in accordance with standard details. 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 Ductile Iron, Class 52. 4" S.H.C. shall be Ductile Iron, Class 52.
21. The contractor shall provide a joint in all sewer mains within 2'-0" of exterior manhole wall.
22. All manholes shall be 4'-0" inside diameter, unless otherwise noted.
23. 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'.
24. Manholes designated thus: WT, shall have a Watertight Frame and Cover.
25. Topo taken from Fisher, Collins and Carter, Inc.'s Water and Sewer construction drawings Contract No. 24-1568-D.

QUANTITIES			
ITEM	EST'D	AS BUILT	MATERIAL / SUPPLIER
8" W	449 LF	444 LF	UNITED STATES PIPE & FOUNDRY
6" WHC	20 LF	40 LF	"
8" S	401 LF	403 LF	"
4" SHC	85 LF	88 LF	"
4'-0" DIA MH	2 EA	2 EA	ATLANTIC CONCRETE PRODUCTS INC.
6" V (excl FH)	2 EA	2 EA	MUNICIPAL CONTRACTORS SALES / KENNEDY
FH	3 EA	3 EA	"
16" x 8" TS & V	1 EA	1 EA	A&P WATER & SEWER SUPPLIES INC. / AMERICAN DRIVING - T'S, MUELLER - VALVES
18" STEEL SLEEVE	70 LF	DELETED 7-27-90	"

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND  
James J. [Signature] 12/19/89  
DIRECTOR OF PUBLIC WORKS DATE  
Robert [Signature] 12/4/89  
CHIEF, BUREAU OF UTILITIES DATE

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



DES:				
DRN:				
CHK:				
DATE:				
BY	NO.	REVISION	DATE	

TITLE SHEET  
600' SCALE MAP NO. 41 BLOCK NO.

PARCEL NO. 248 TAX MAP 41  
WATER AND SEWER EXTENSION  
OLD COLUMBIA ROAD  
SELF STORAGE FACILITY  
6<sup>TH</sup> ELECTION DISTRICT  
CONTRACT NO. 24-1990-D  
SCALE AS SHOWN  
SHEET 1 OF 2



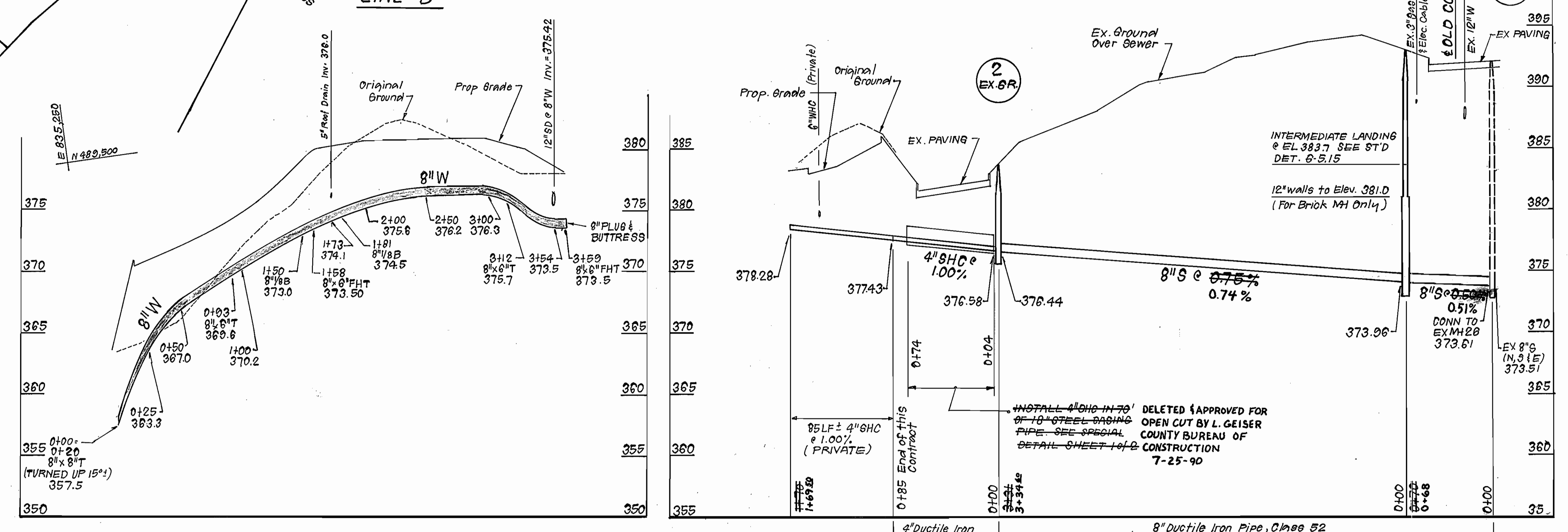
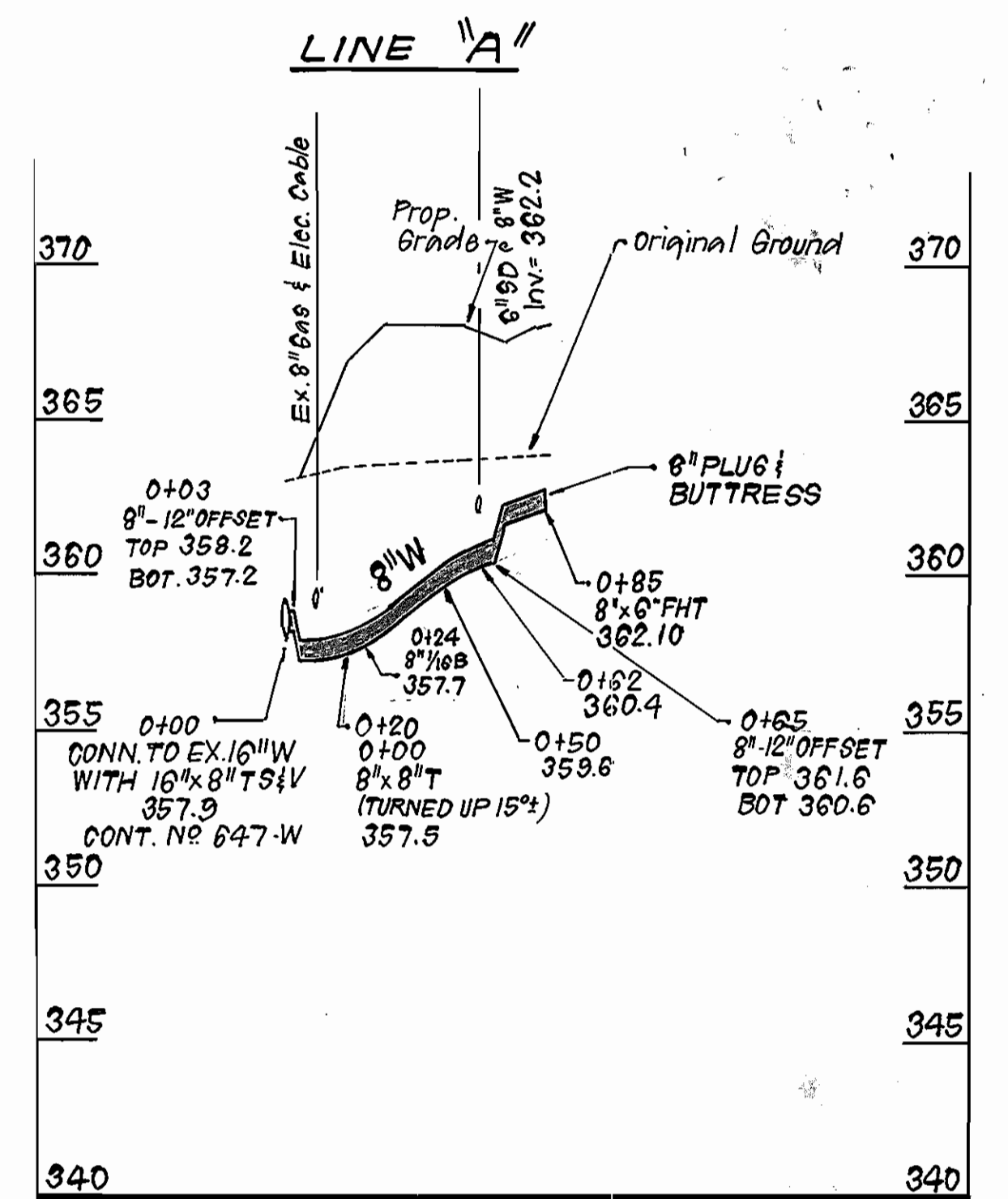
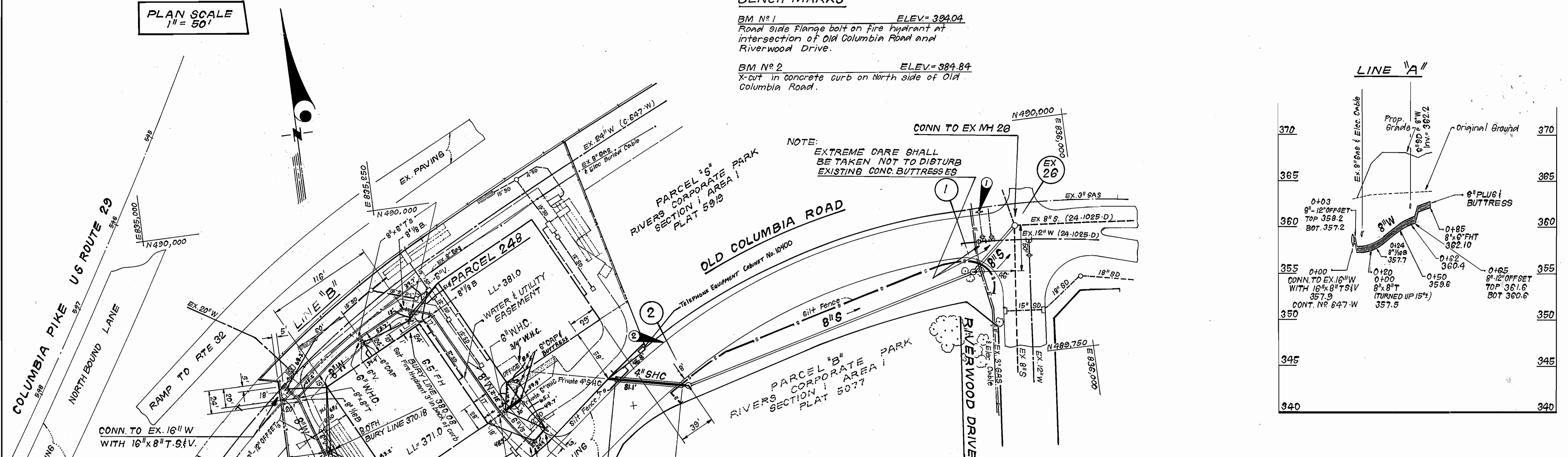
PLAN SCALE  
1" = 50'

**BENCH MARKS**

BM No. 1 ELEV. = 394.04  
Road side flange bolt on fire hydrant at intersection of Old Columbia Road and Riverwood Drive.

BM No. 2 ELEV. = 389.84  
X-cut in concrete curb on North side of Old Columbia Road.

NOTE:  
EXTREME CARE SHALL BE TAKEN NOT TO DISTURB EXISTING CONC. BUTTRESSES



PROFILE SCALE  
HORIZONTAL: 1" = 50'  
VERTICAL: 1" = 5'

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND  
12/9/89  
12/4/89

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

DES: JTR	BY	NO.	REVISION	DATE
DRN: JTR				
CHK: OCM				
DATE: 11-89				

PLAN & PROFILE OF  
WATER & SEWER MAINS

PARCEL NO. 248 TAX MAP 41  
WATER AND SEWER EXTENSION  
OLD COLUMBIA ROAD  
SELF STORAGE FACILITY  
6<sup>TH</sup> ELECTION DISTRICT  
CONTRACT NO. 24-1990-D  
SCALE AS SHOWN  
SHEET 2 OF 2  
AS-BUILT 3-15-91