

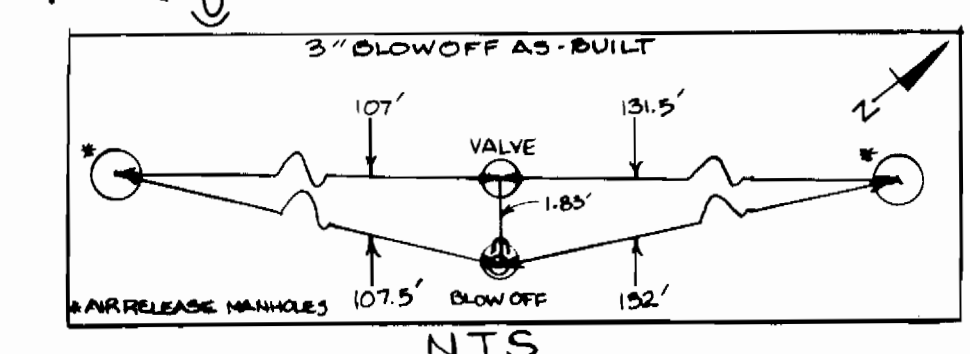
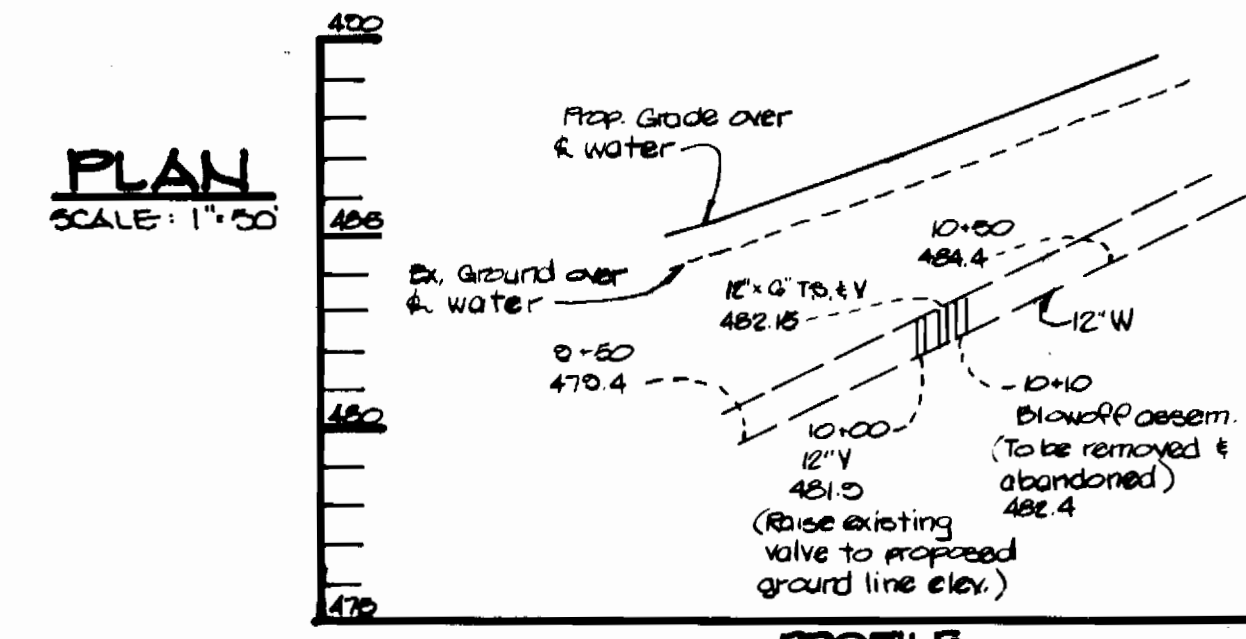
- ### GENERAL NOTES
- Approximate location of existing mains are shown. The contractor shall take all necessary precautions to protect existing mains and services and maintain uninterrupted supply. Any damage incurred shall be repaired immediately to the satisfaction of the engineer at the contractor's expense.
 - All horizontal controls are based on Maryland State coordinates.
 - All vertical controls are based on U.S.G.S data.
 - All pipe elevations shown are invert elevations.
 - Clear all utilities by a minimum of 6\"/>
- 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 work requires the bracing of additional poles, any cost incurred by the owner for the 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.
- For details not shown on the drawings, and for materials and construction methods, use Howard County Design Manual, Volume IV, Standard Specifications and Details for Construction. The contractor shall have copy of Volume IV on the job.
 - 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 is included on the drawings. Existing utilities in the vicinity of 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.
 - Contractor shall notify the following utilities or agencies at least five working days before starting work shown on these plans:
 - State Highway Administration - 531-5533
 - Baltimore Gas and Electric Co. - Contractor Services - 561-2585
 - Baltimore Gas and Electric Co. - Under Ground Damage Control - 234-5621
 - Baltimore Gas and Electric Co. - Trouble shooting - 298-2015
 - Miss Utility - 1-800-257-7777
 - Colonial Pipeline Co. - 795-1930
 - Bureau of Utilities, Howard County Department of public Works - 292-2366
 - 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.
 - Contractor shall remove trees, stumps and roots along line of excavation as directed by the engineer. Payment of such removal shall be included in the unit price bid for excavation and backfill.
 - Place regulation Men Working and warning signs as required to comply with Maryland State Highway Administration Manual of Traffic Controlled Highway Construction and Maintenance Operations.
 - All water mains to be D.I.P. unless otherwise noted.
 - Top of all water mains to have a minimum of 3/2\"/>

Sediment control measures for this contract will be implemented in accordance with article 15 of the specifications and as shown on F.87-13 and this plan.

Howard Soil Conservation District:
Reviewed for Howard Soil Conservation District and meets technical requirements
James H. Hatten 11-12-86
Date

US Soil Conservation Service
This plan is approved for soil erosion and sediment control by the Howard Soil Conservation District.
Stephen L. Anker 11/12/86
Date

* NOTE: Minimum Serviceable Elev. shown represents the elev. at a point farthest from the service connection



ITEM	Estimated	As Built	Material Supplier
3\"/>			

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

11-18-86
DATE

11-18-86
DATE

THE RIEMER GROUP, INC
3105 N. RIDGE ROAD
ELLCOTT CITY, MARYLAND



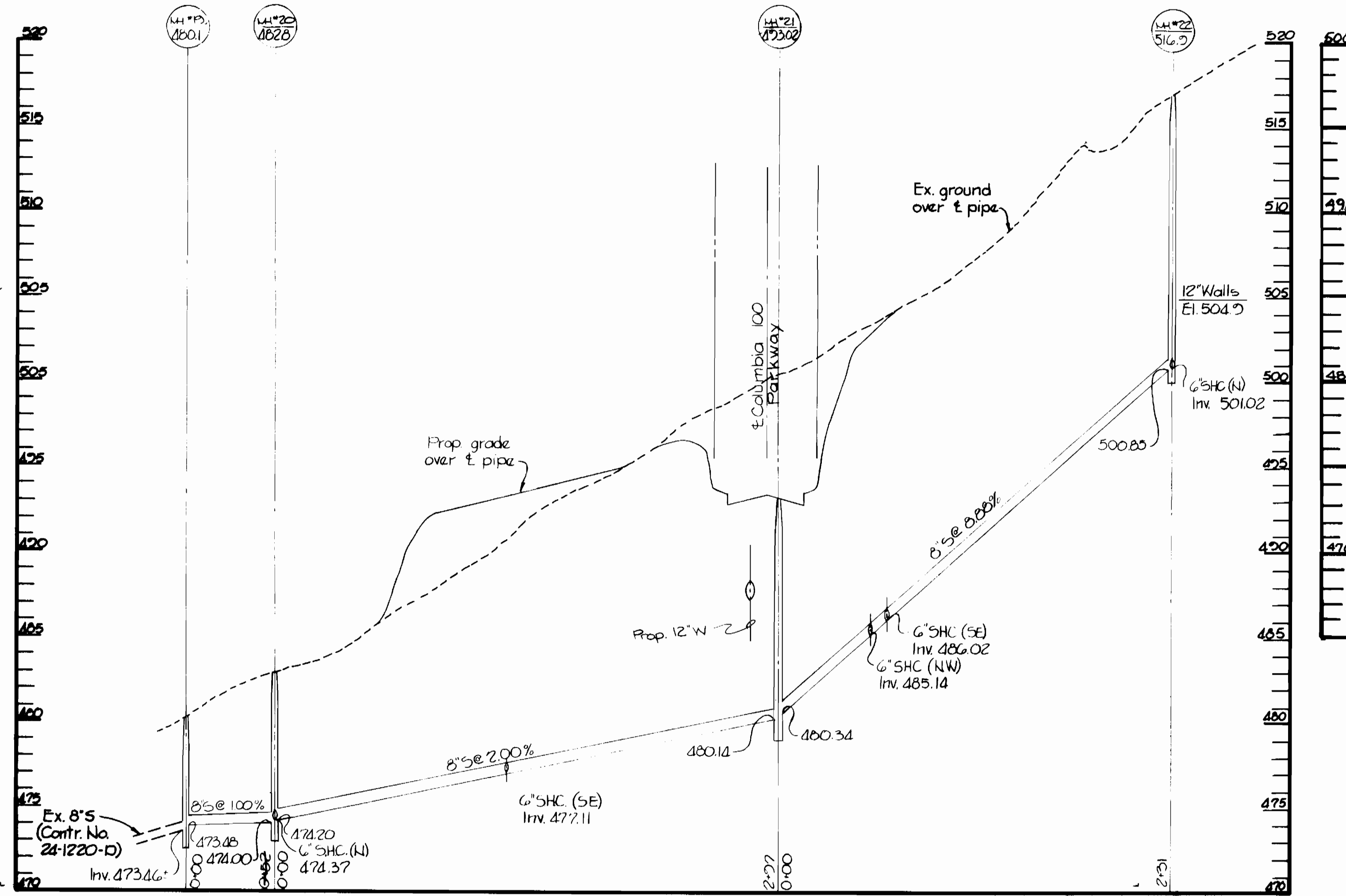
DES: DAM			
DRN: DAM			
CHK:	WAD: E	NOODD PH. AND WATER PROFILE	4-12-86
DATE:	SWW: I	REVISED ELEVATION OF PLUG & BUTTRESS	12-29-86
BY NO.		REVISION	DATE

PLAN OF WATER & SEWER MAIN

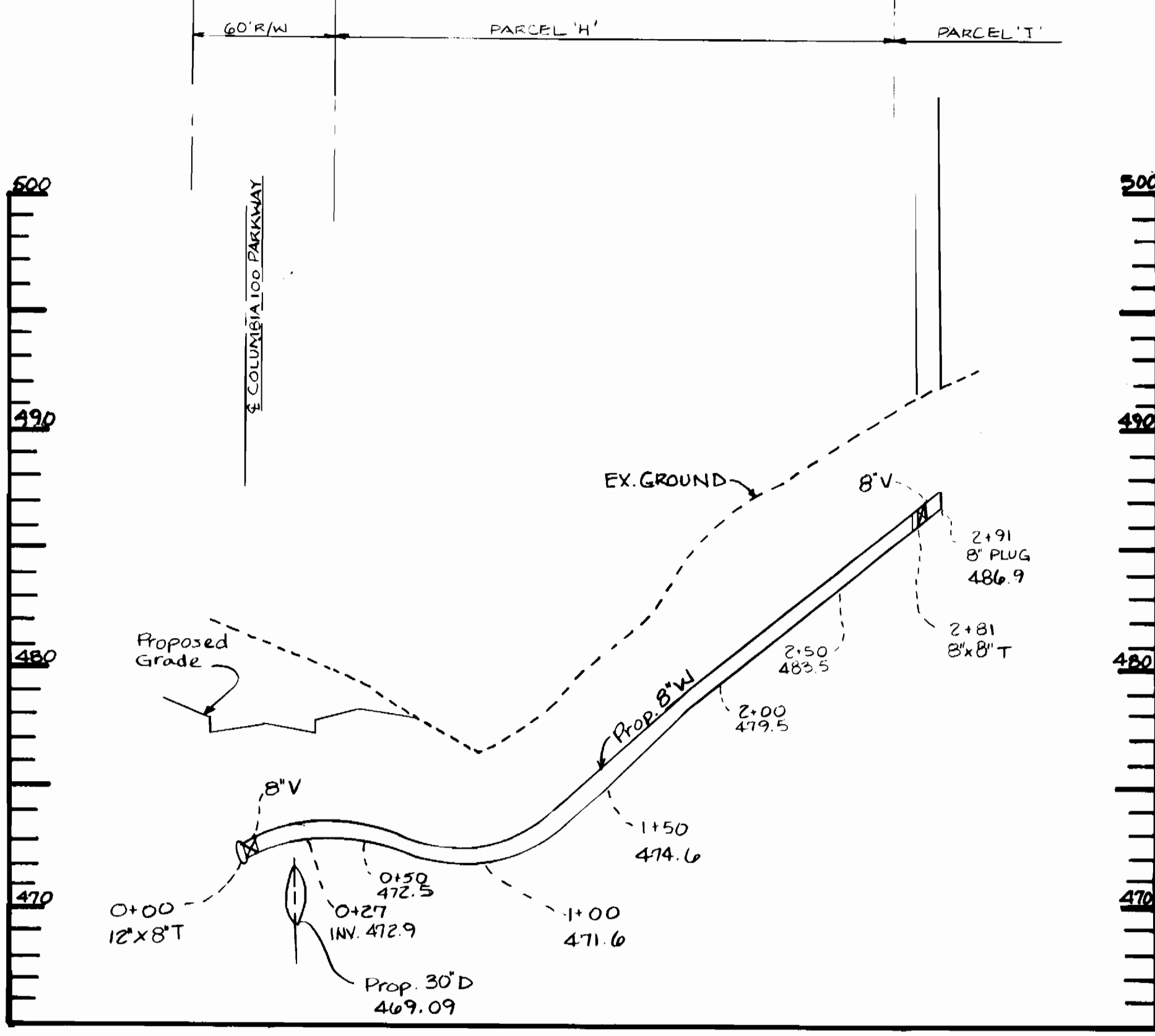
600' SCALE MAP NO. 30 BLOCK NO.

COLUMBIA 100 - OFFICE RESEARCH PARK
SECTION I, AREA I
2 ND ELECTION DISTRICT
HOWARD COUNTY MARYLAND
CONTRACT NO 24-1561-D

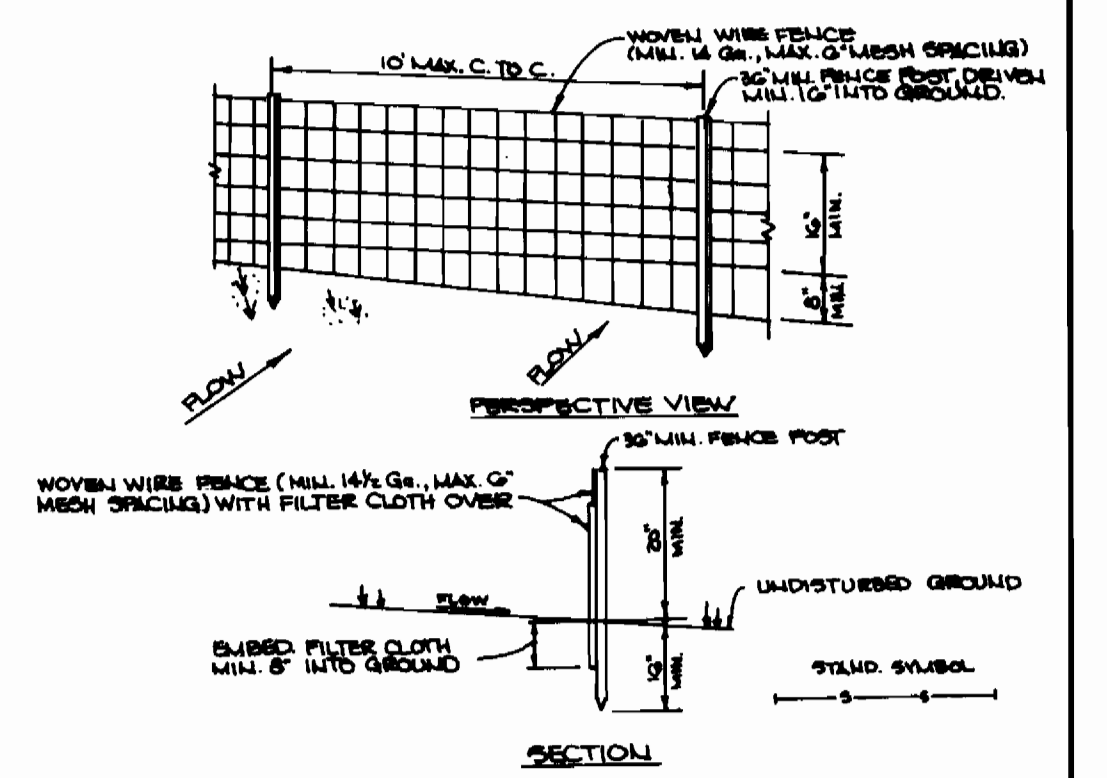
SCALE AS SHOWN
SHEET 1 OF 2



SEWER PROFILE
SCALE: HORIZ. 1"=50'
VERT. 1"=5'

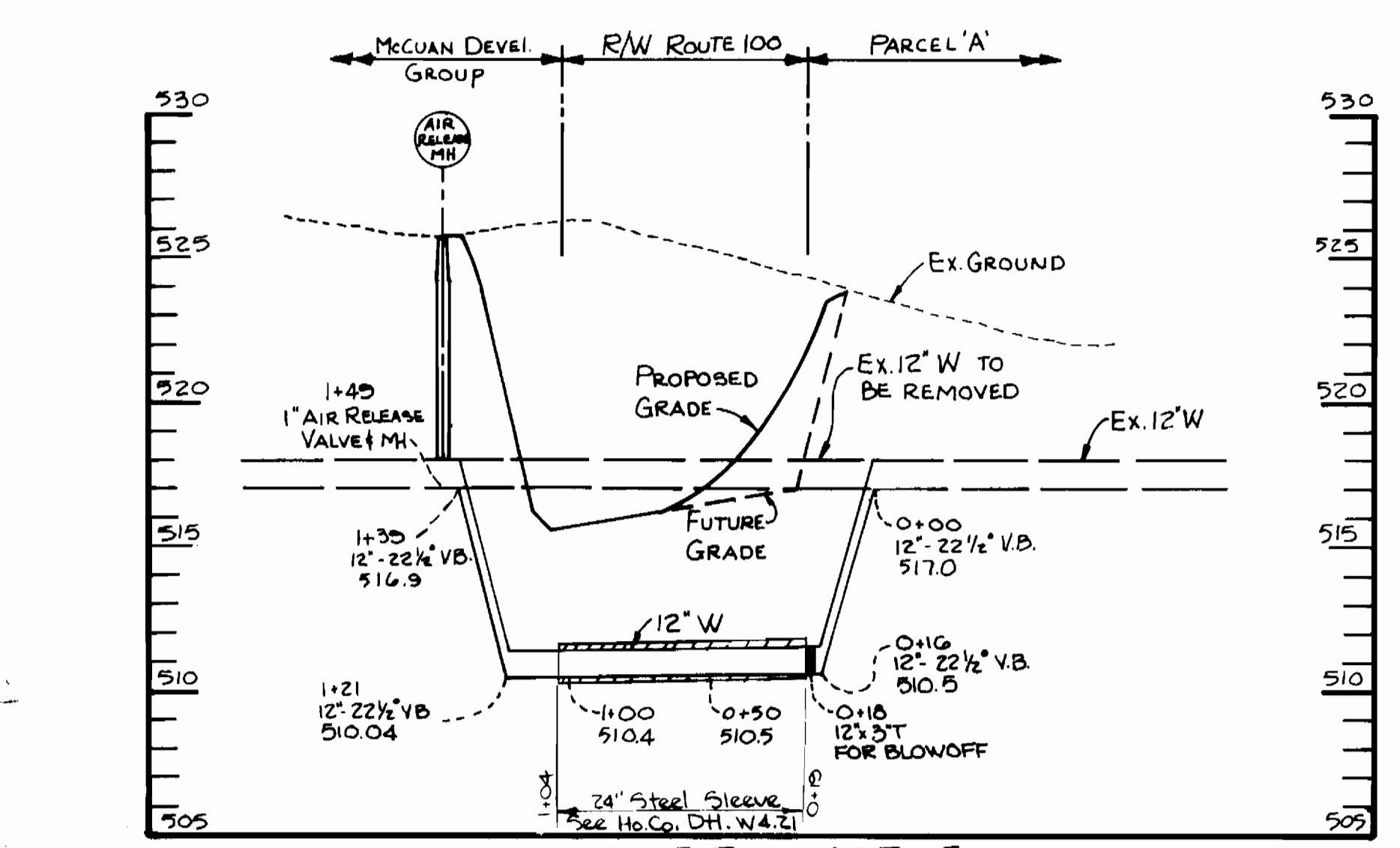


WATER PROFILE
SCALE: HORIZ. 1"=50'
VERT. 1"=5'

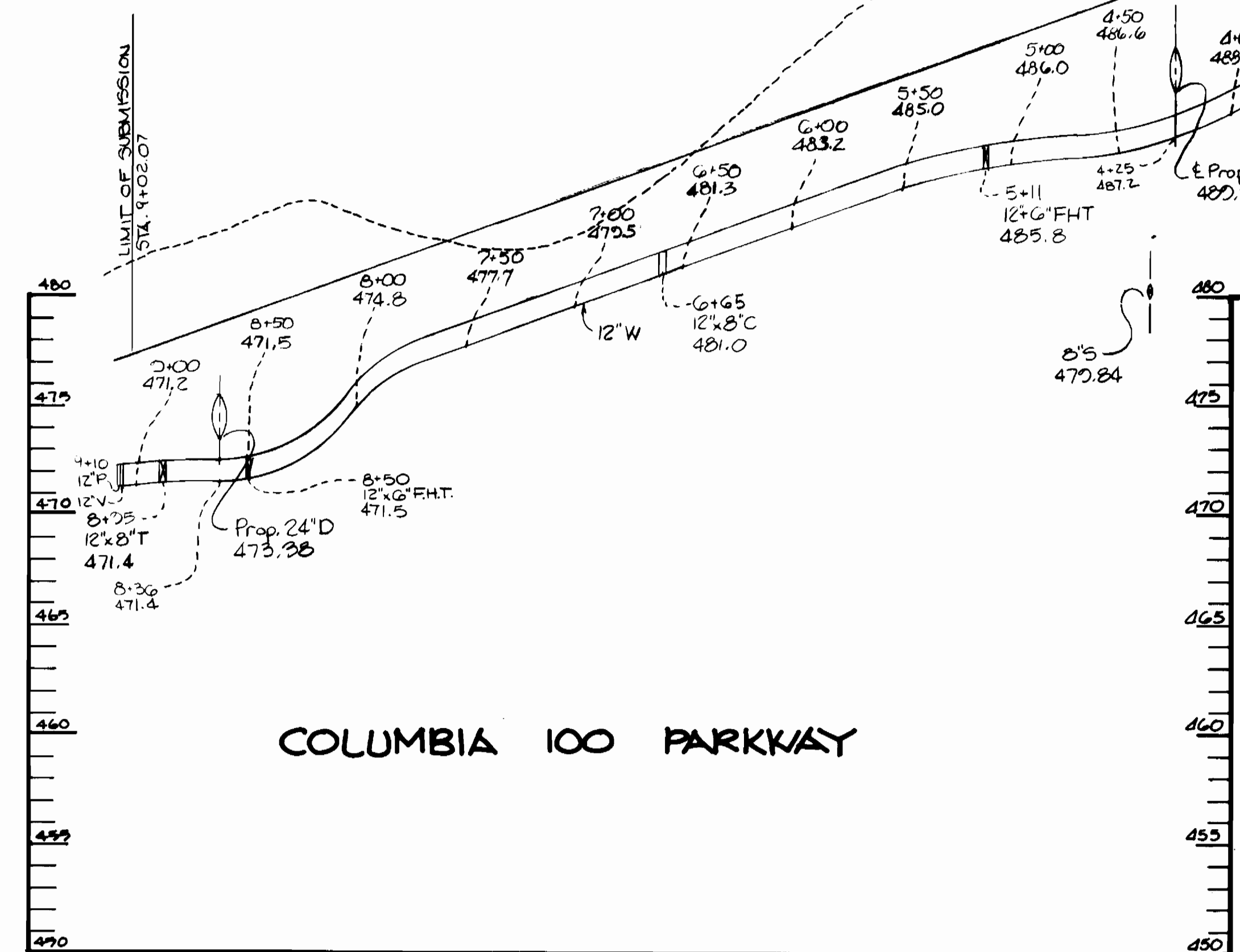


- CONSTRUCTION NOTES FOR FABRICATED SILT FENCE**
- NOVEL WIRE FENCE TO BE FASTENED TO BRACE POSTS WITH WIRE TIES OR STAPLES.
 - FILTER CLOTH TO BE FASTENED SECURELY TO NOVEL WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION.
 - WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY 6" AND FOLDED.
 - MAINTENANCE SHALL BE PERFORMED AS ORDERED AND MATERIAL REMOVED WHEN BULGES DEVELOP IN THE SILT FENCE.
- POSTS: STEEL EITHER T OR U TYPE OR 2" HARDWOOD.
FENCE: NOVEL WIRE 14" GA. MIN. OF 2" MESH OPENING.
FILTER: FILTER X MIRAFL 100 X STABILINA TIAU OF APPROVED EQUAL.
PREP: GEOTEX ENVIRONMENTAL.

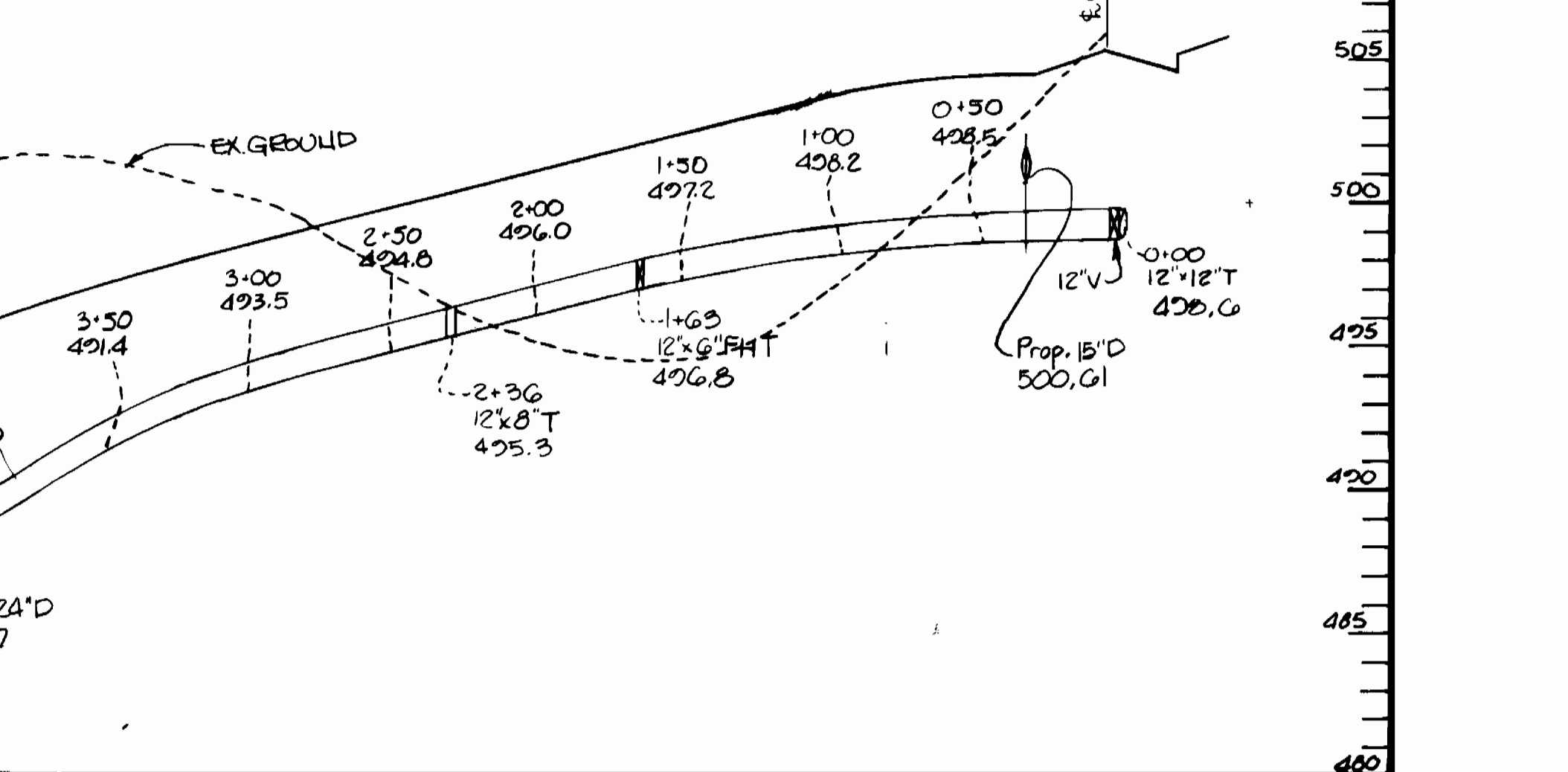
SILT FENCE DETAIL
NO SCALE



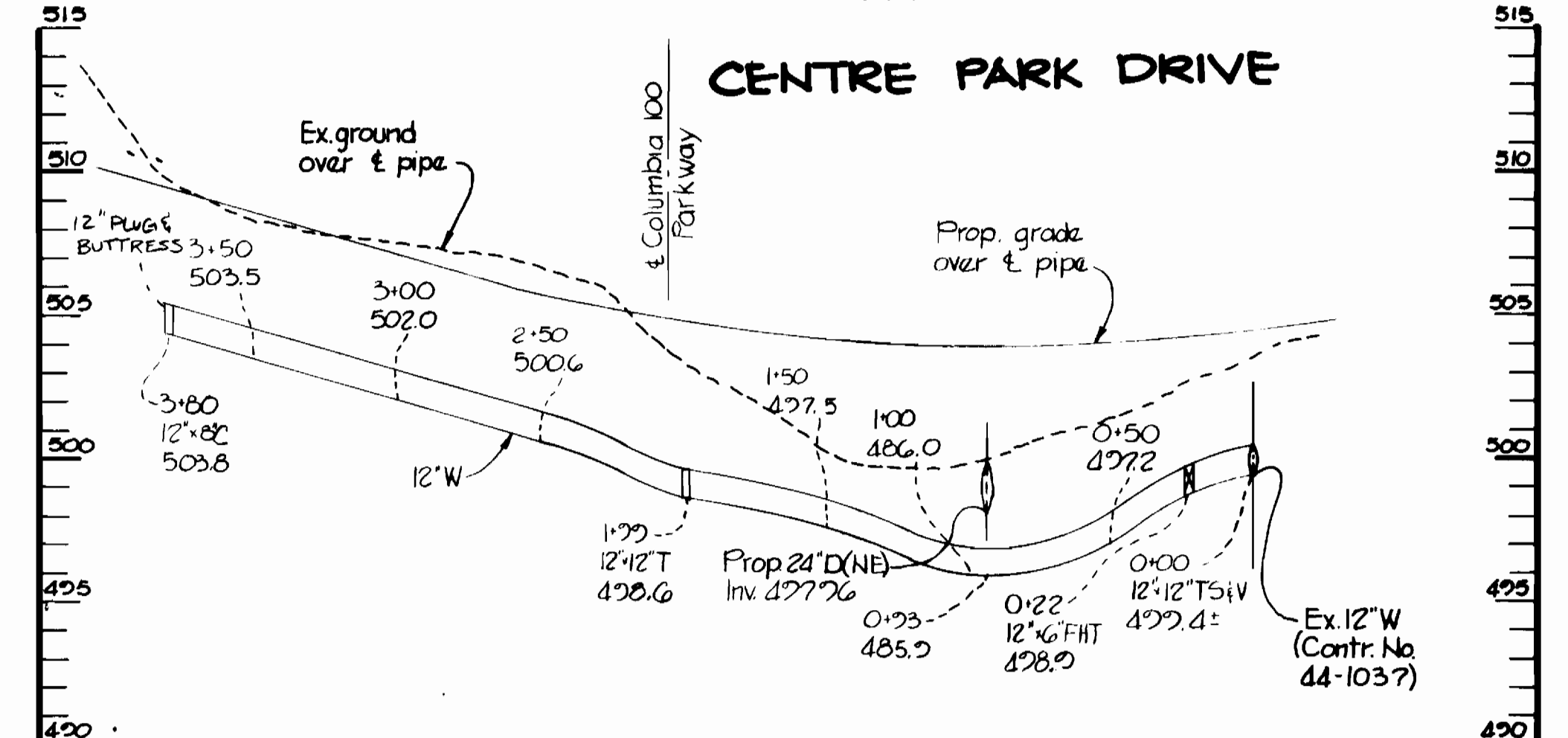
WATER PROFILE
SCALE: HORIZ. 1"=50'
VERT. 1"=5'



WATER PROFILE
SCALE: HORIZ. 1"=50'
VERT. 1"=5'



WATER PROFILE
SCALE: HORIZ. 1"=50'
VERT. 1"=5'



WATER PROFILE
SCALE: HORIZ. 1"=50'
VERT. 1"=5'

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

John E. Nally
DIRECTOR OF PUBLIC WORKS
DATE: 11-11-86

Robert J. Gannon
CHIEF BUREAU OF UTILITIES
DATE: 11-18-86

Michael E. Gannon
CHIEF BUREAU OF ENGINEERING
DATE: 11-18-86

Michael E. Gannon
CHIEF LAND DEVELOPMENT DIVISION
DATE: 11-18-86

THE RIEMER GROUP, INC.
3105 N. RIDGE ROAD
ELlicott CITY, MARYLAND 21043



DES: DAM	
DRN: FDM	
CHK:	
DATE: 11-18-86	
BY: NO.	
REVISION	
DATE	

PROFILES OF WATER AND SEWER MAINS

600' SCALE MAP NO. 30 BLOCK NO.

COLUMBIA 100 OFFICE RESEARCH PARK
AREA I, SECTION I
2ND ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
CONTRACT NO. 24-1561-D

SCALE AS SHOWN
SHEET 2 OF 2

AS-BUILT