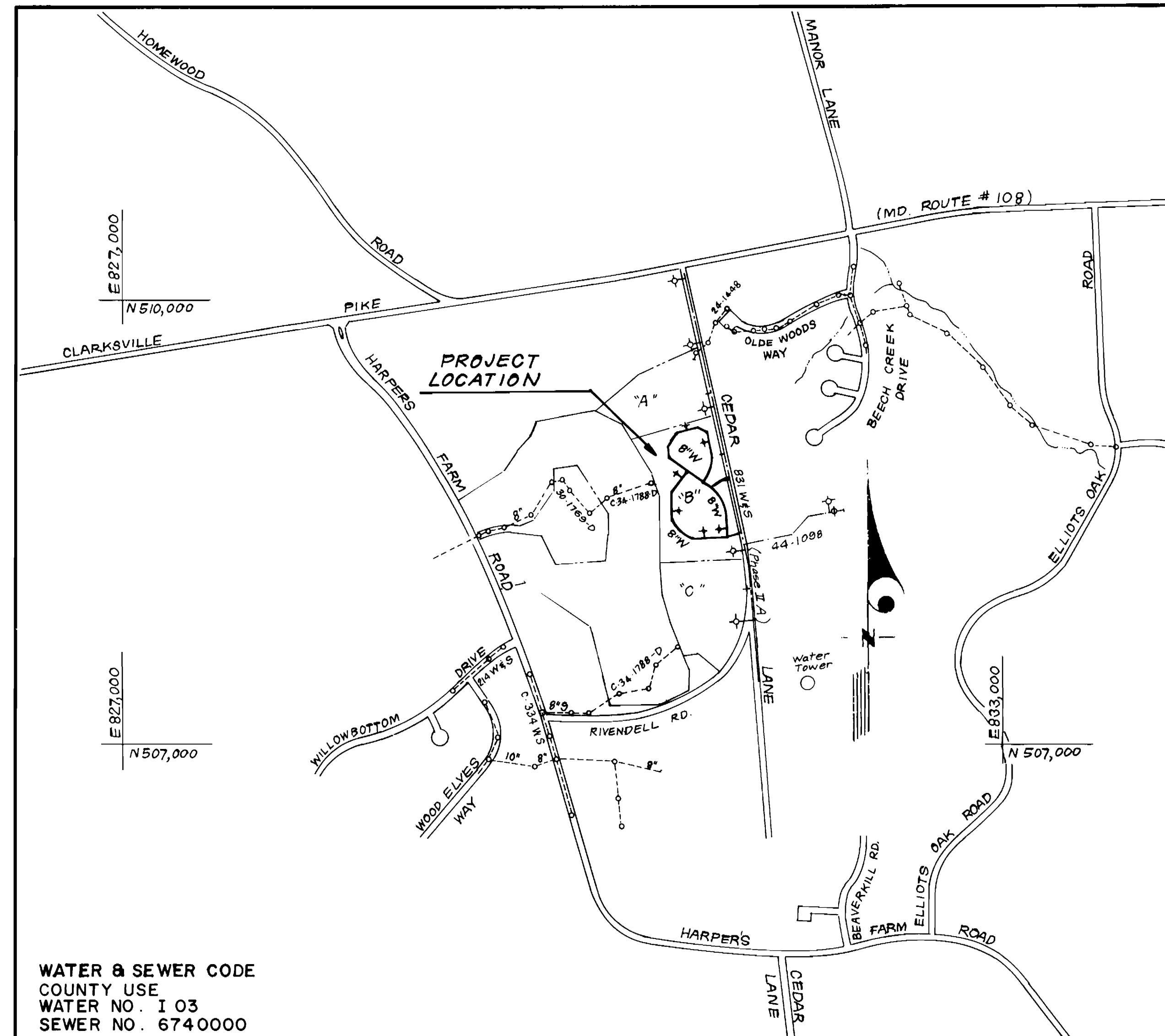


TYPE OF BUILDING	RENTAL APARTMENTS & TOWNHOUSES
NUMBER OF UNITS	120 APTS. & 50 TOWNHOUSES
NUMBER OF SHC'S	1
NUMBER OF WHO'S	42
DRAINAGE AREA	LITTLE PATUXENT WWTP



WATER & SEWER CODE
 COUNTY USE
 WATER NO. I 03
 SEWER NO. 6740000

VICINITY MAP
 SCALE: 1" = 600'

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 Inspector, at the contractor's expense.
- All horizontal controls are based on Maryland State Coordinates.
- All vertical controls are based on U.S.G.S. Datum.
- All pipe elevations shown are invert elevations.
- 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.
- For details not shown on the drawings use Howard County Standard Details.
- For materials and construction methods use Howard County Standard Specifications No. Co. 28519 Manual, Volume IV. The contractor shall have Volume IV on the job.
- 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.
- 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 - Contractor Services - 850-4620.
 - Baltimore Gas & Electric Company - Underground Damage Control - 859-9004.
 - Baltimore Gas & Electric Company - Trouble Shooting - 208-9001.
 - "Miss Utility"
 - Chesapeake & Potomac (C & P) Telephone Company - 1-800-257-7777.
 - Colonial Pipeline Company - 795-1390.
 - Bureau of Utilities Howard County - 992-2366
- 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 Inspector. Payment for 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 Control for Highway Construction and Maintenance Operations.
- All water mains to be C.I.P. Class 52 unless otherwise noted.
- Top of all water mains to have a minimum of 3'-1/2' cover unless otherwise noted.
- Valves adjacent to tees shall be strapped to tees.
- Block all fittings with concrete.
- 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 1003 & 1008 of the Standard Specifications.
- The contractor shall not operate any water main valves on the existing system.
- All sewer mains shall be C.S.P.X., V.C.P.X. or P.V.C. unless otherwise noted.
- The contractor shall provide a joint in all sewer mains within 2'-0" of exterior manhole wall.
- All manholes shall be 4'-0" inside diameter, unless otherwise noted.
- 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'.
- All D.I.P. fittings shall be in accordance with A.W.W.A. specification C-153 Ductile Iron Compact Fittings, 3-inch through 12-inch for water and other liquids.

CONTRACT NO. 44-1884-D
 VILLAGE OF HARPER'S CHOICE
 PARCEL B, SECTION 7 AREA 2
 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 S-89-16; Drawing Sediment & Erosion Control.

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS
 [Signature] 1-30-89
 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] 1/30/89
 HOWARD S.C.D. DATE

QUANTITIES			
ITEM	ESTM'D	AS BUILT	MATERIAL / SUPPLIER
8"W	2454 LF	2425 LF	DIP / ATLANTIC STATES CAST IRON PIPE CO.
8"V	10 EA	10	M&H VALVE CO.
4"W	235 LF	240 LF	D.I.P. ATLANTIC STATES CAST IRON PIPE CO.
4"V	6 EA	6	M&H CO.
F.H. (incl. valves)	7 EA	7	MPELLER / M&H CO.
1 1/2" WHC	310 LF	331 LF	K COPPER / CAMBRIDGE LEE.
1" WHC	350 LF	364 LF	" " " " "
2" WHC	380 LF	337 LF	" " " " "
1" Meter Vaults	25 EA	25 LF	MAJOR BRO. CONCRETE.

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND

[Signature] 2-2-89
 DIRECTOR OF PUBLIC WORKS DATE
 [Signature] 2/4/89
 CHIEF, BUREAU OF ENGINEERING DATE

[Signature] 1-23-89
 CHIEF, BUREAU OF UTILITIES DATE

[Signature] 2/4/89
 CHIEF, LAND DEVELOPMENT DIV. DATE

CLARK - FINEPROCK & SACKETT
 ENGINEERS - PLANNERS - SURVEYORS

7115 MINSTREL WAY COLUMBIA, MARYLAND 21045
 (301) 381-7500 BALTO. (301) 621-8100 WASH.



DES: J.T.R.			
DRN: V.L.M.			
CHK: J.T.R.			
DATE: 10/88	BY NO.	REVISION	DATE

TITLE SHEET

600' SCALE MAP NO. 20 BLOCK NO.

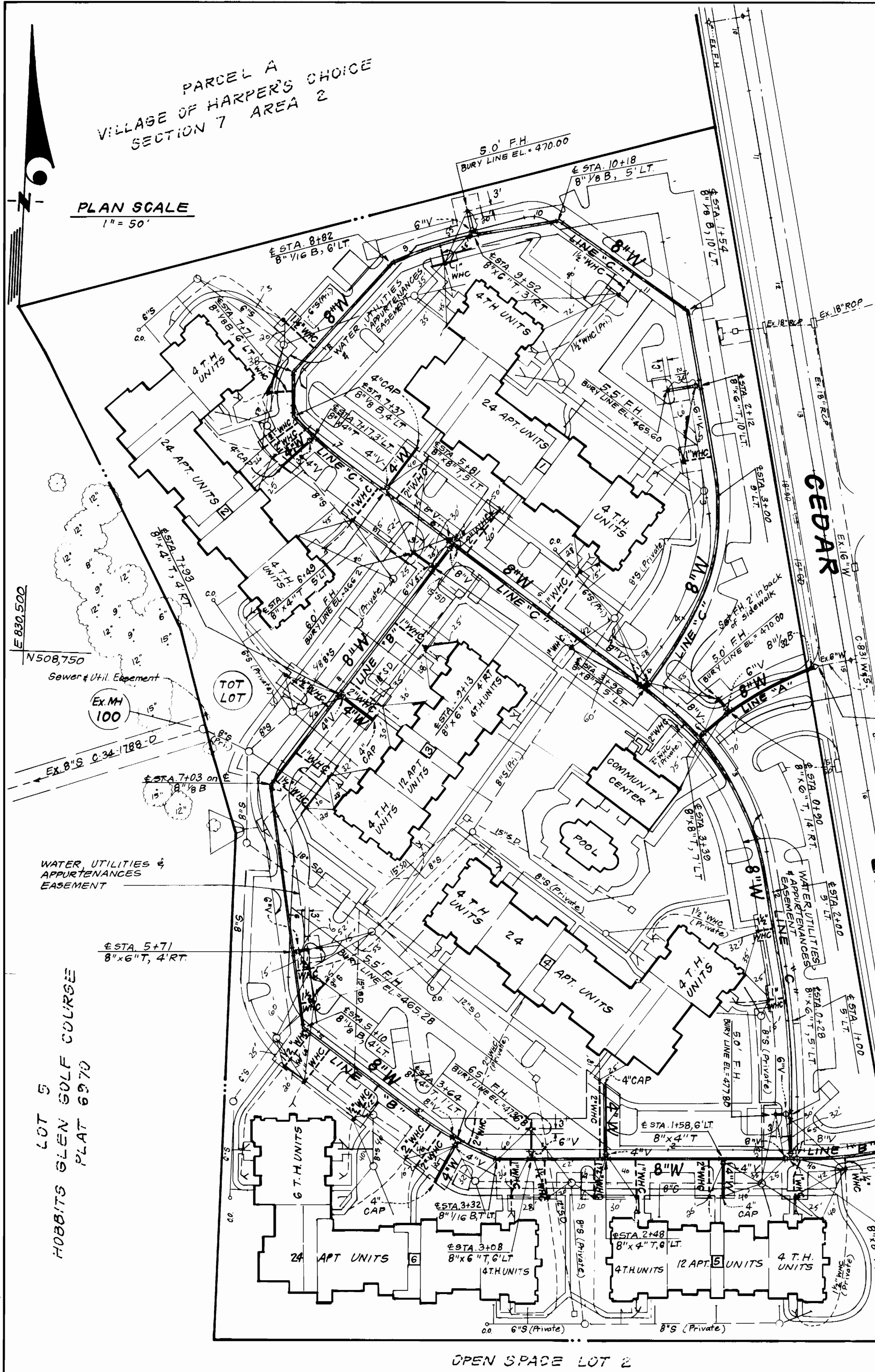
COLUMBIA
 VILLAGE OF HARPER'S CHOICE
 SECTION 7 AREA 2
 PARCEL B
 5TH ELECTION DISTRICT
 CONTRACT NO. 44-1884-D

SCALE AS SHOWN
 SHEET 1 OF 3

AS-BUILT 2/28/89

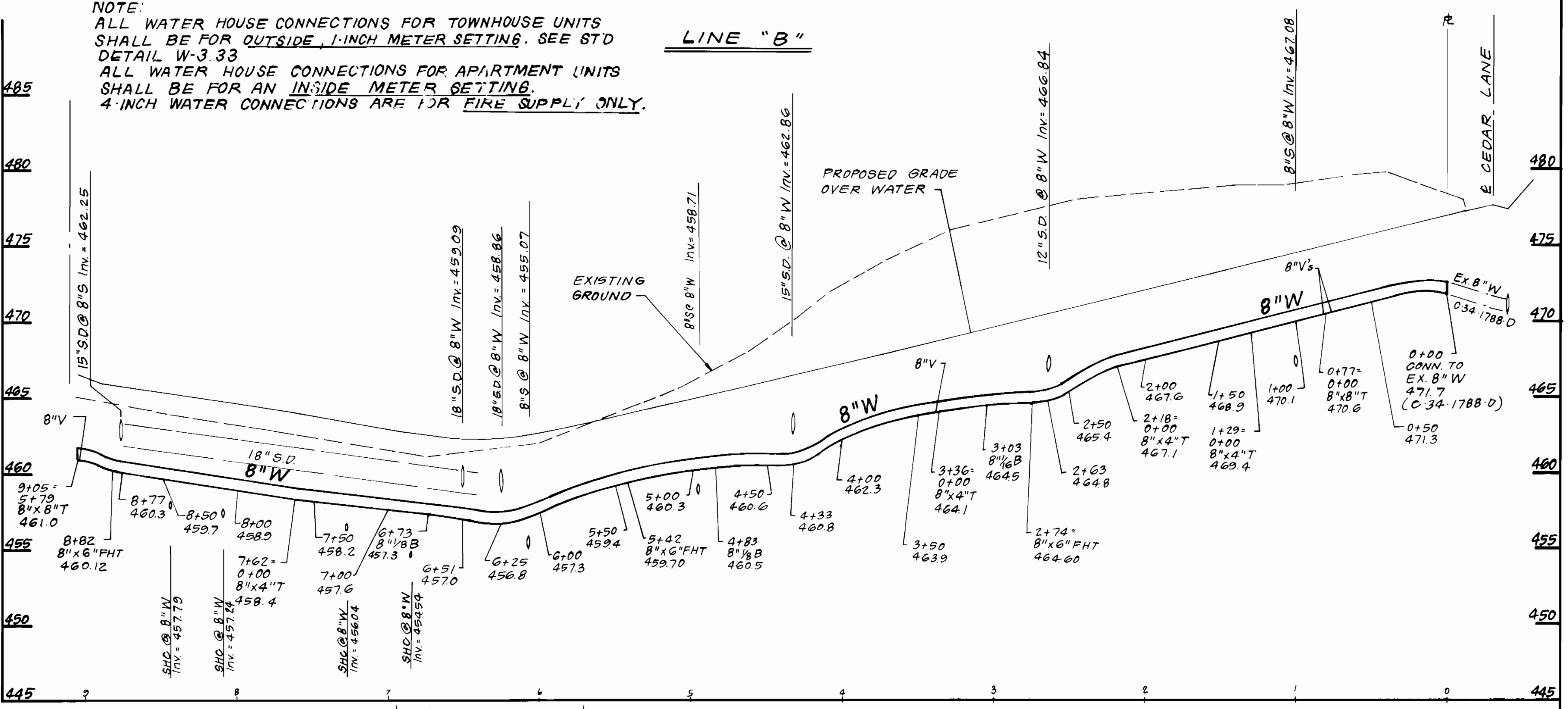
PARCEL A
VILLAGE OF HARPER'S CHOICE
SECTION 7 AREA 2

PLAN SCALE
1" = 50'

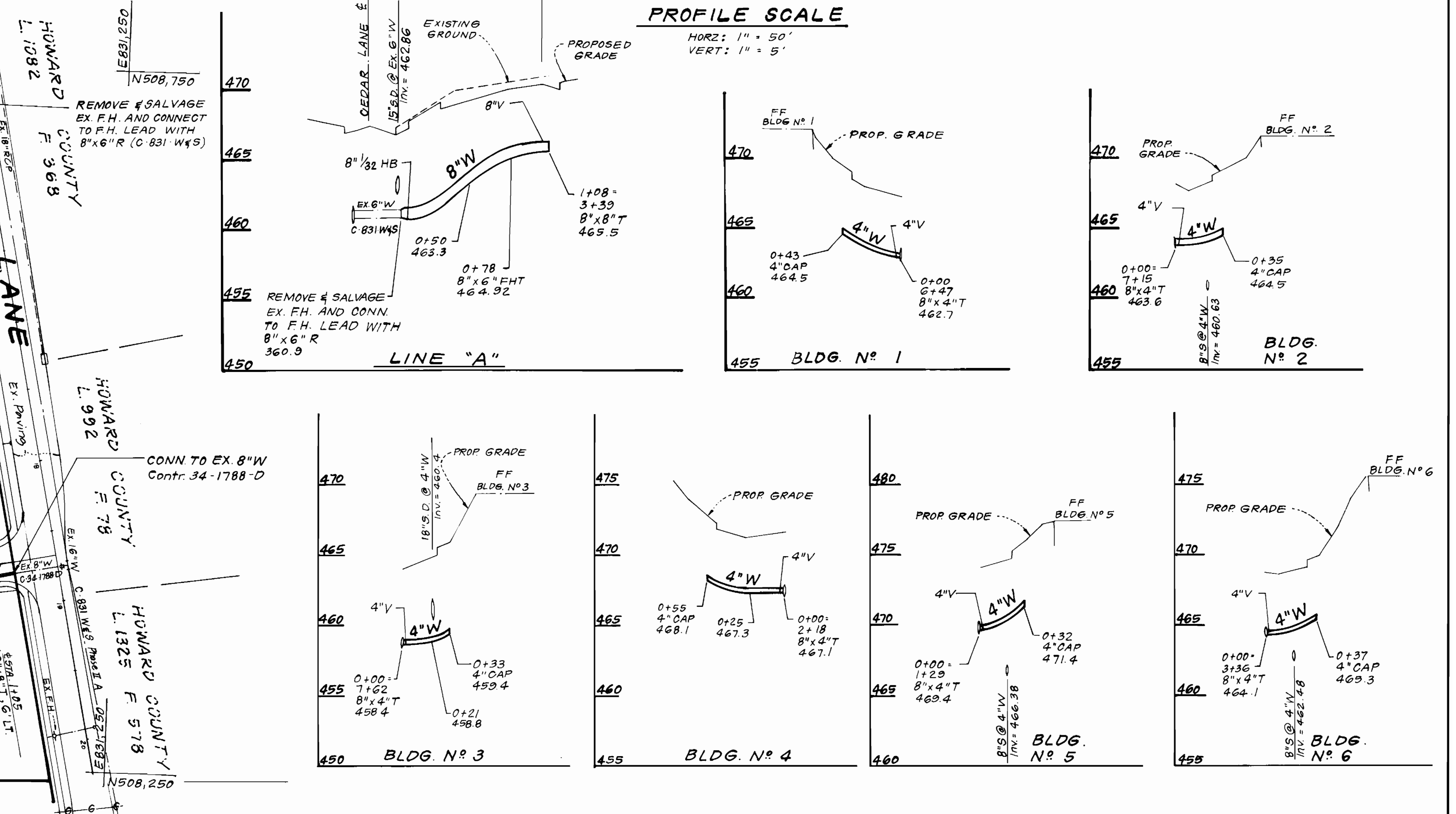


NOTE:
ALL WATER HOUSE CONNECTIONS FOR TOWNHOUSE UNITS
SHALL BE FOR OUTSIDE, 1-INCH METER SETTING. SEE STD
DETAIL W-3 33
ALL WATER HOUSE CONNECTIONS FOR APARTMENT UNITS
SHALL BE FOR AN INSIDE METER SETTING.
4-INCH WATER CONNECTIONS ARE FOR FIRE SUPPLY ONLY.

LINE "B"



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

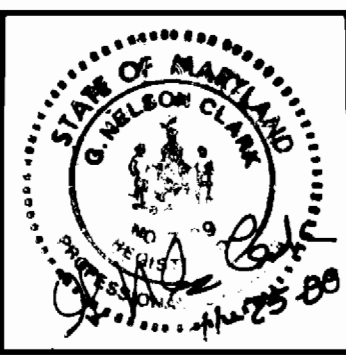


LOT 5
HOBBITS GLEN GOLF COURSE
PLAT 6970

OPEN SPACE LOT 2

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
DATE: 1-23-89
DATE: 2-2-89

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



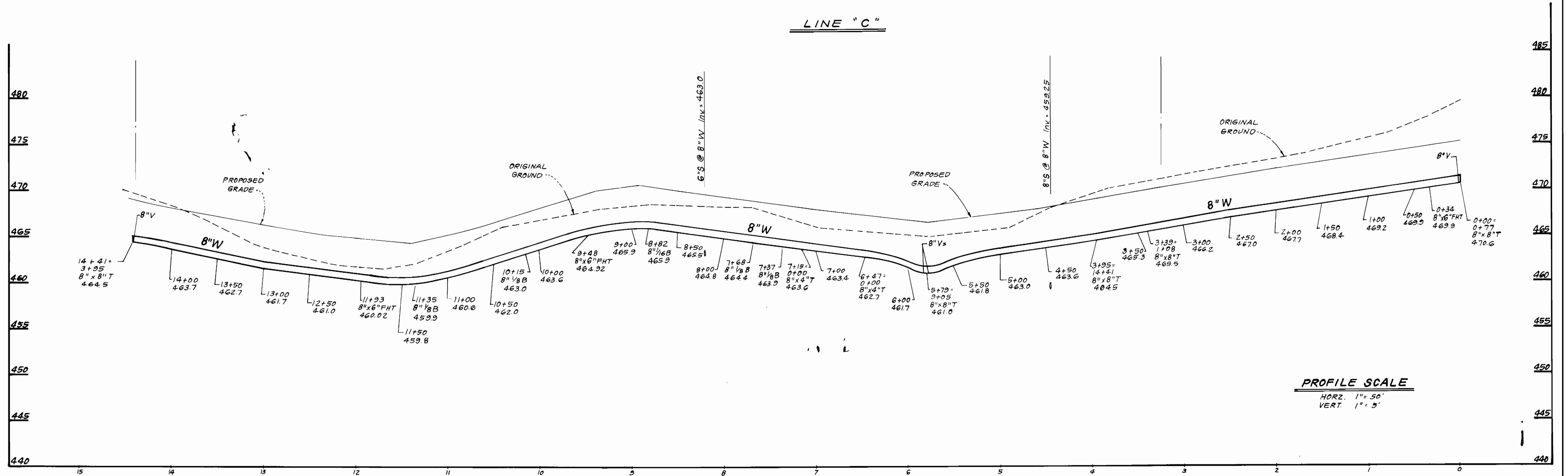
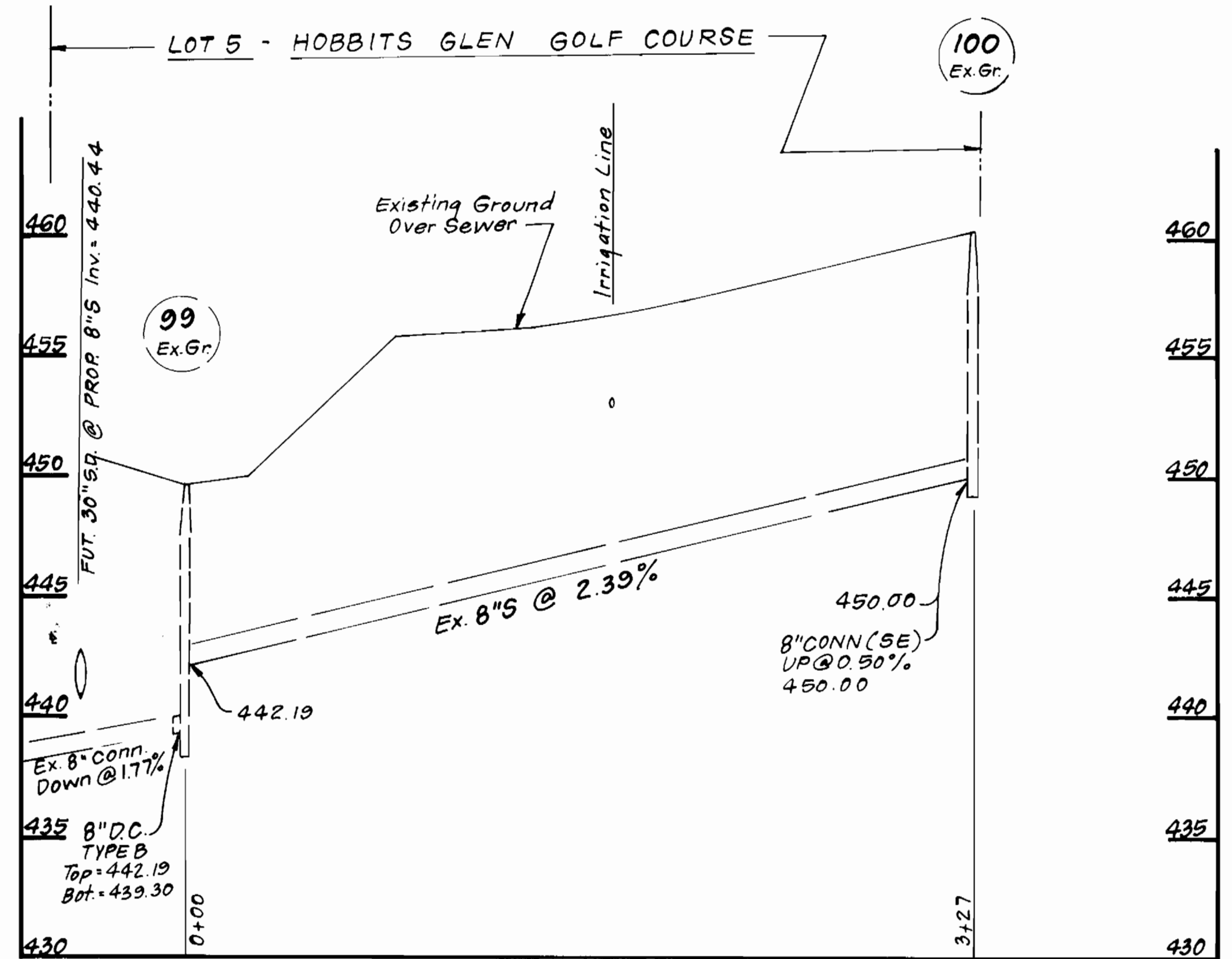
DES: JTR	BY: NO	REVISION	DATE
DRN: VLM			
CHK: JTR			
DATE: 11-88			

PLAN & PROFILE OF
WATER MAINS
600'S SCALE MAP NO. 22 BLOCK NO.

COLUMBIA
VILLAGE OF HARPER'S CHOICE
SECTION 7 AREA 2
PARCEL B
5TH ELECTION DISTRICT
CONTRACT NO. 44-1884-D

SCALE
AS SHOWN
SHEET
2 OF 3

AS-BUILT 12/23/89



DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND

James W. Shaw 2/2/89
 DIRECTOR OF PUBLIC WORKS DATE

Richard S. Roper 2-2-89
 CHIEF, BUREAU OF ENGINEERING DATE

Robert S. Burman 2/1/89
 CHIEF, BUREAU OF UTILITIES DATE

Robert S. Burman 2/1/89
 CHIEF, LAND DEVELOPMENT DIV. DATE

CFE CLARK · FINEFROCK & SACKETT, INC.
 ENGINEERS · PLANNERS · SURVEYORS

7135 MINSTREL WAY COLUMBIA MARYLAND 21045
 (301) 381-7500 BALTO. (301) 621-8100 WASH.



DES: JTR			
DRN: VLM			
CHK: JTR			
DATE: 11-88	BY	NO.	REVISION

PROFILE OF A
 WATER MAIN

600' SCALE MAP NO. 29 BLOCK NO.

COLUMBIA
 VILLAGE OF HARPER'S CHOICE
 SECTION 7 AREA 2
 PARCEL B
 5TH ELECTION DISTRICT
 CONTRACT NO. 44-1884-D

SCALE AS SHOWN
 SHEET 3 OF 3