

**CONTRACT 171-W&S**  
**WATER & SEWER EXTENSIONS**  
**HOWARD COUNTY METROPOLITAN COMMISSION**  
**ELLICOTT CITY, MARYLAND**



WHITMAN, REQUARDT & ASSOCIATES ENGINEERS 1304 ST. PAUL ST. BALTIMORE, MARYLAND	HOWARD COUNTY METROPOLITAN COMMISSION _____ <small>DATE</small> <small>CHIEF ENGINEER</small>	CONTRACT NO. <u>171-W&amp;S</u>	LOCATION MAP	COLUMBIA VILLAGE OF WILDE LAKE ELECTION DISTRICT-CLARKSVILLE No.5	DRAWING NO. <u>1</u> OF <u>5</u>	SCALE AS SHOWN
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Contract No. 171-W&S

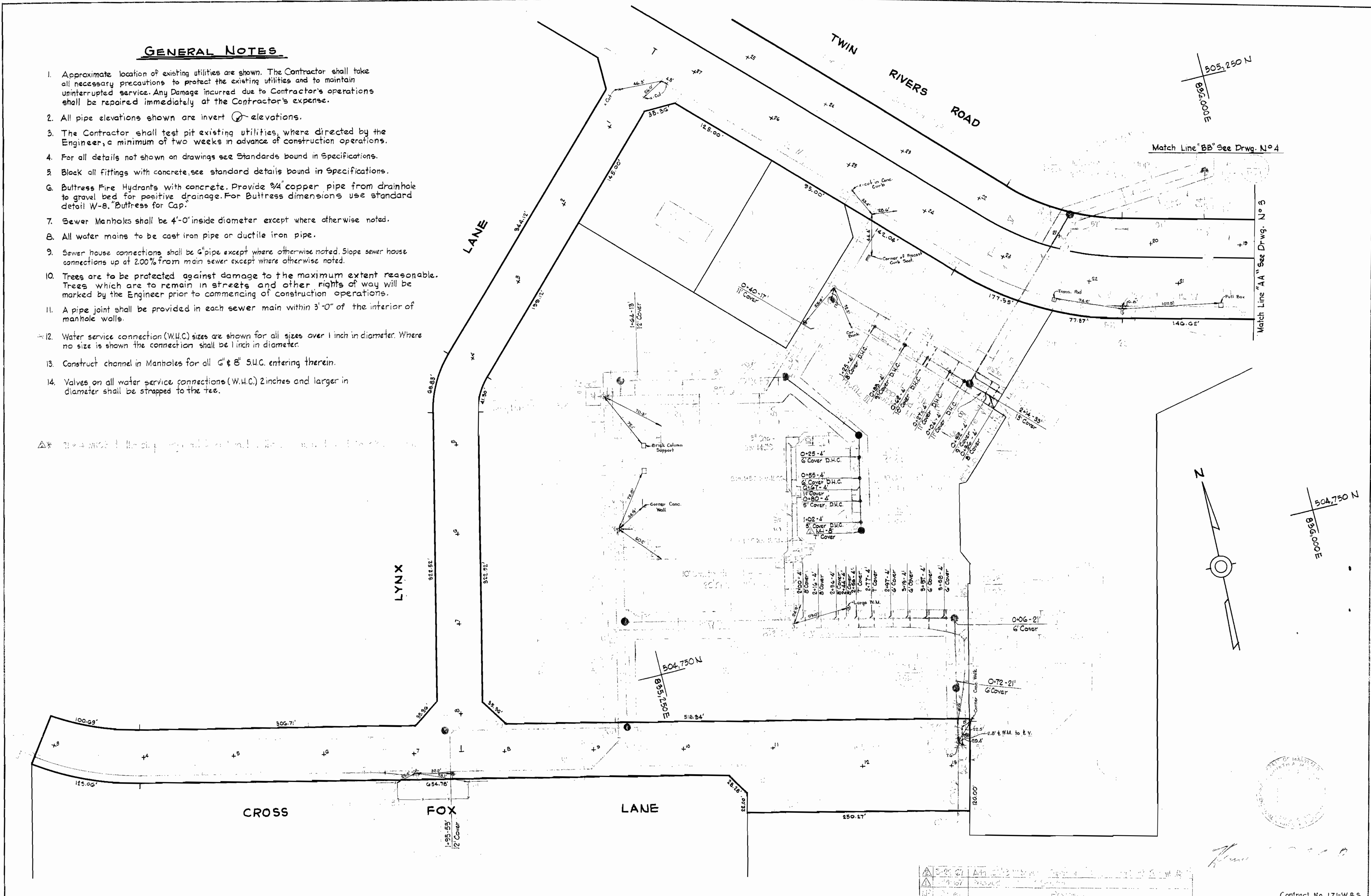
171-W&S/1

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**GENERAL NOTES**

1. Approximate location of existing utilities are shown. The Contractor shall take all necessary precautions to protect the existing utilities and to maintain uninterrupted service. Any Damage incurred due to Contractor's operations shall be repaired immediately at the Contractor's expense.
2. All pipe elevations shown are invert (I) elevations.
3. The Contractor shall test pit existing utilities, where directed by the Engineer, a minimum of two weeks in advance of construction operations.
4. For all details not shown on drawings see Standards bound in Specifications.
5. Block all fittings with concrete, see standard details bound in Specifications.
6. Buttress Fire Hydrants with concrete. Provide 3/4" copper pipe from drainhole to gravel bed for positive drainage. For Buttress dimensions use standard detail W-8. "Buttress for Cap."
7. Sewer Manholes shall be 4'-0" inside diameter except where otherwise noted.
8. All water mains to be cast iron pipe or ductile iron pipe.
9. Sewer house connections shall be 6" pipe except where otherwise noted. Slope sewer house connections up at 2.00% from main sewer except where otherwise noted.
10. Trees are to be protected against damage to the maximum extent reasonable. Trees which are to remain in streets and other rights of way will be marked by the Engineer prior to commencing of construction operations.
11. A pipe joint shall be provided in each sewer main within 3'-0" of the interior of manhole walls.
12. Water service connection (W.H.C.) sizes are shown for all sizes over 1 inch in diameter. Where no size is shown the connection shall be 1 inch in diameter.
13. Construct channel in Manholes for all 6" & 8" S.H.C. entering therein.
14. Valves on all water service connections (W.H.C.) 2 inches and larger in diameter shall be strapped to the tee.

△\* 2" x 4" wood blocking required for all manholes. See detail W-10.



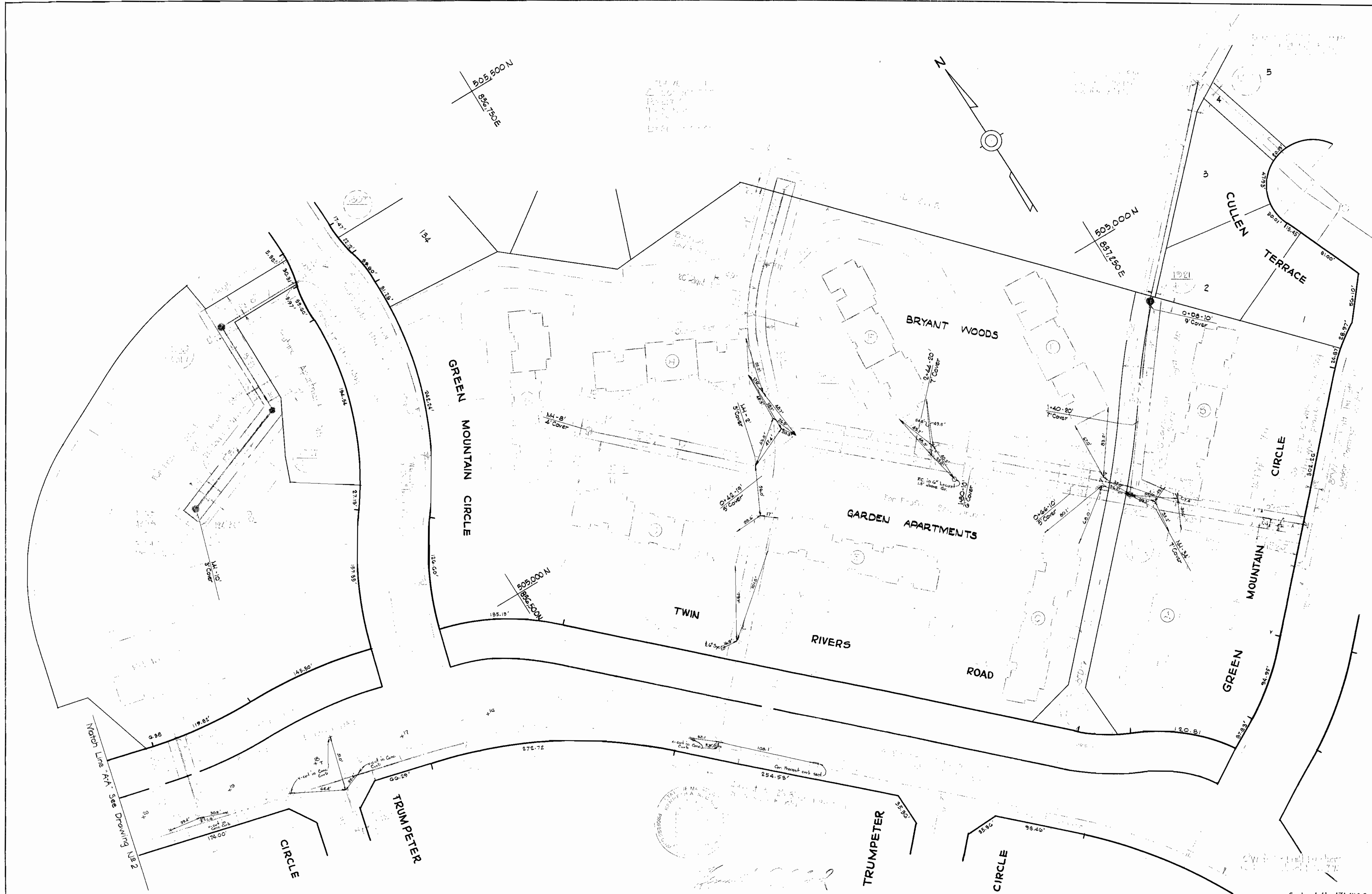
171-W&S/2

WHITMAN, REQUARDT & ASSOCIATES ENGINEERS 1304 ST. PAUL ST. BALTIMORE, MARYLAND	HOWARD COUNTY METROPOLITAN COMMISSION _____ DATE _____ CHIEF ENGINEER	CONTRACT NO. 171-W&S	PLAN OF WATER & SEWER MAINS	COLUMBIA VILLAGE OF WILDE LAKE ELECTION DISTRICT-CLARKVILLE No.5	DRAWING NO. 2 OF 5 SCALE 1" = 50'
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W. O. 5735

Contract No. 171-W&S

AS BUILT



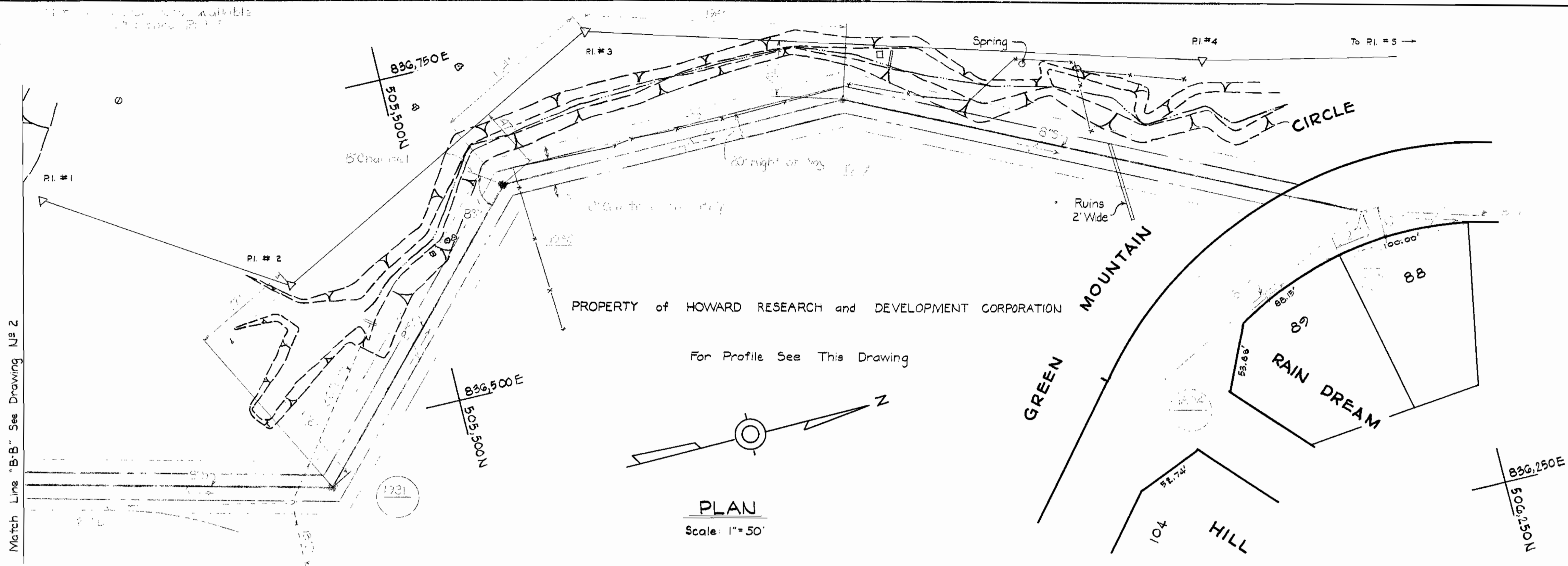
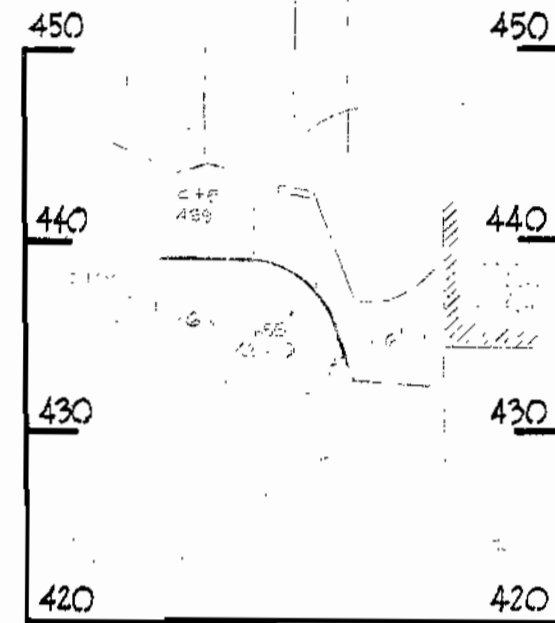
Contract No. 171-W&S

WHITMAN, REQUARDT & ASSOCIATES ENGINEERS 1304 ST. PAUL ST. BALTIMORE, MARYLAND	HOWARD COUNTY METROPOLITAN COMMISSION DATE _____ CHIEF ENGINEER _____	CONTRACT NO. 171-W&S	PLAN OF WATER & SEWER MAINS	COLUMBIA VILLAGE OF WILDE LAKE ELECTION DISTRICT-CLARKSVILLE No. 5	DRAWING NO. 3 OF 5 SCALE 1" = 50'
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W. 0.5735

WS 171-W&S/3

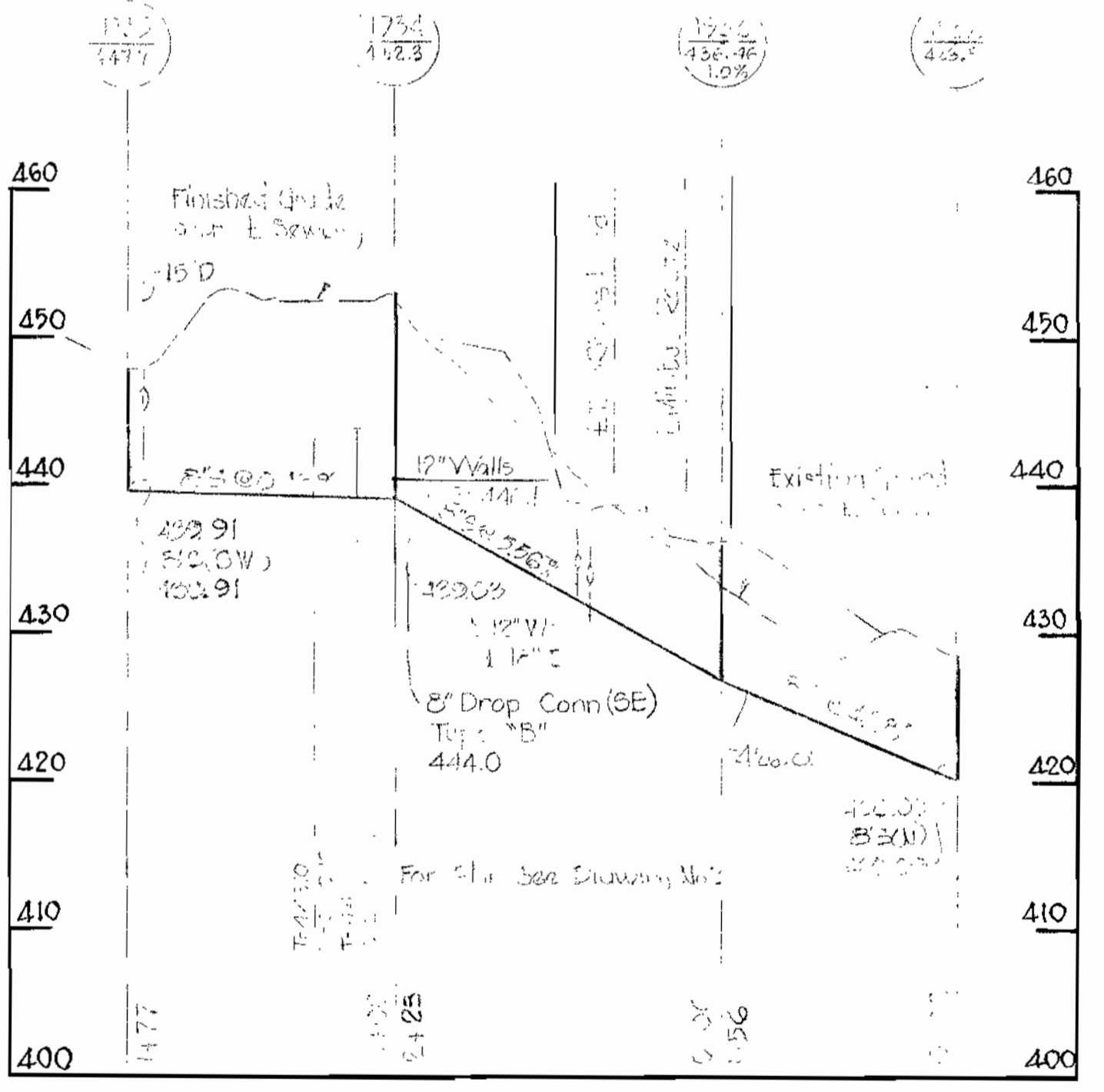
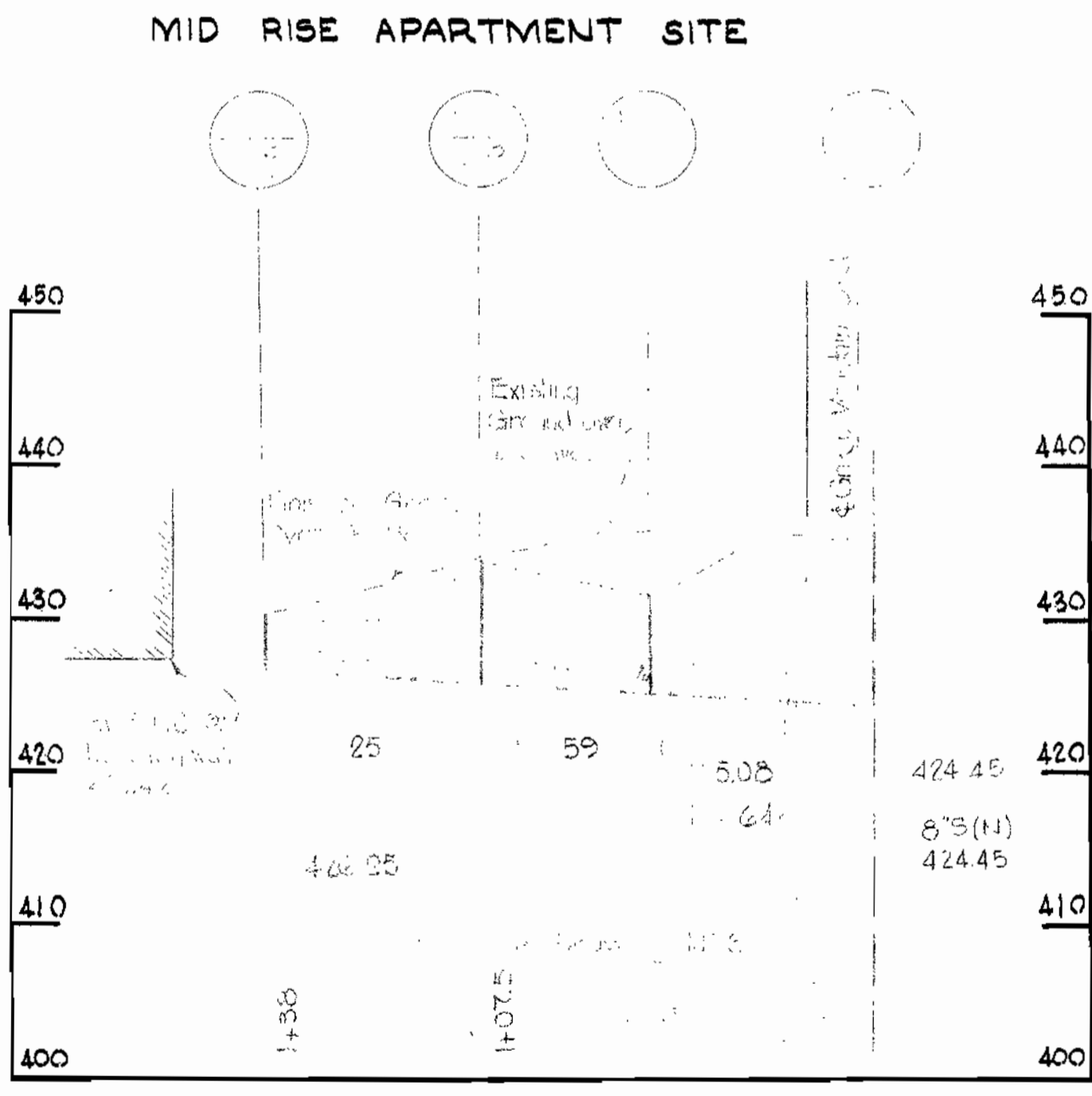
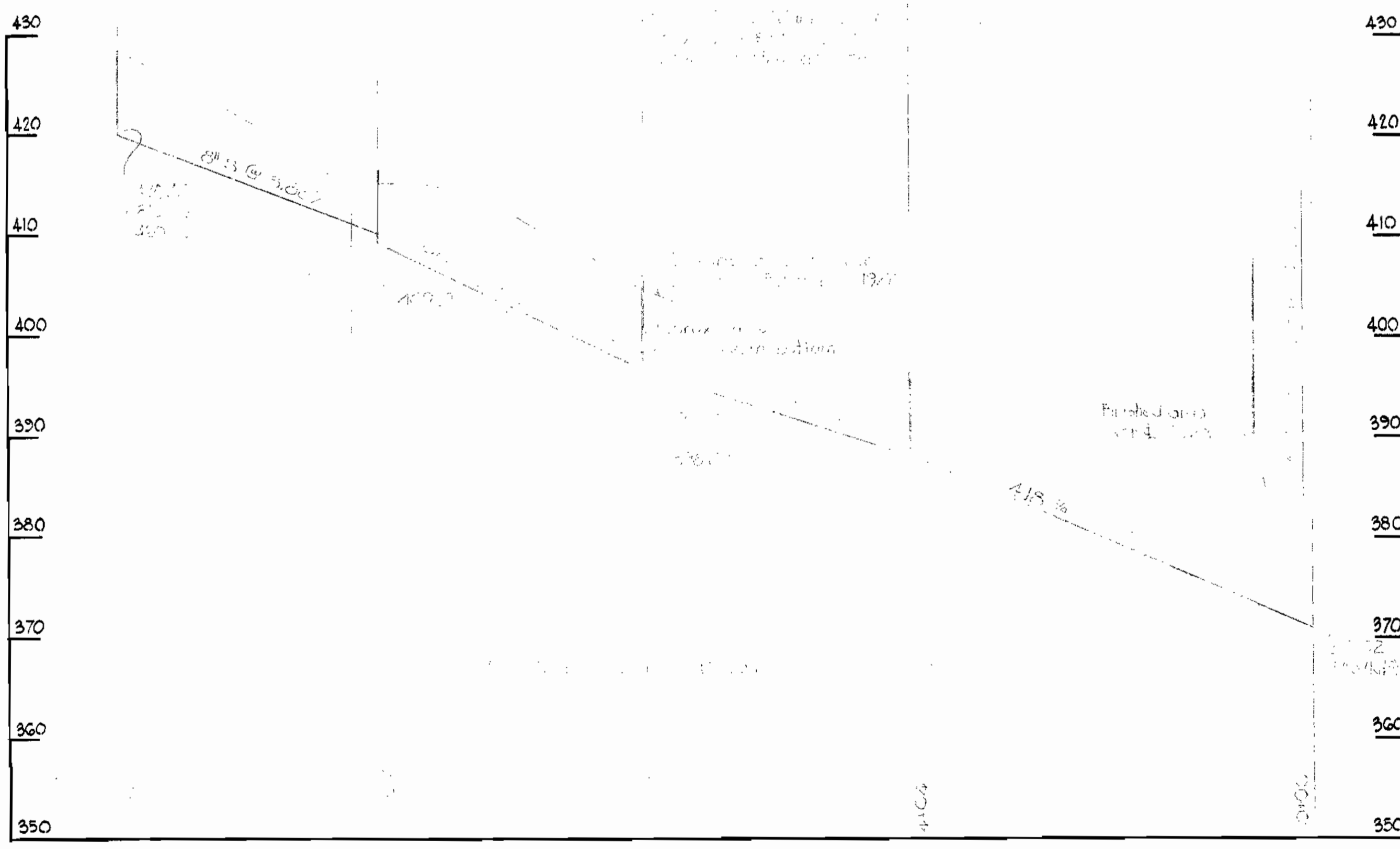
MID RISE  
W.H.C.



OUTFALL

ALL SEWER PIPE C.S.P.

VILLAGE CENTER PROFILE I



PROFILES

Scale: H. 1"=100'  
V. 1"=10'



WHITMAN, REQUARDT & ASSOCIATES  
ENGINEERS  
1304 ST. PAUL ST.  
BALTIMORE, MARYLAND

HOWARD COUNTY METROPOLITAN COMMISSION  
DATE: \_\_\_\_\_ CHIEF ENGINEER

CONTRACT NO. 171-W&S

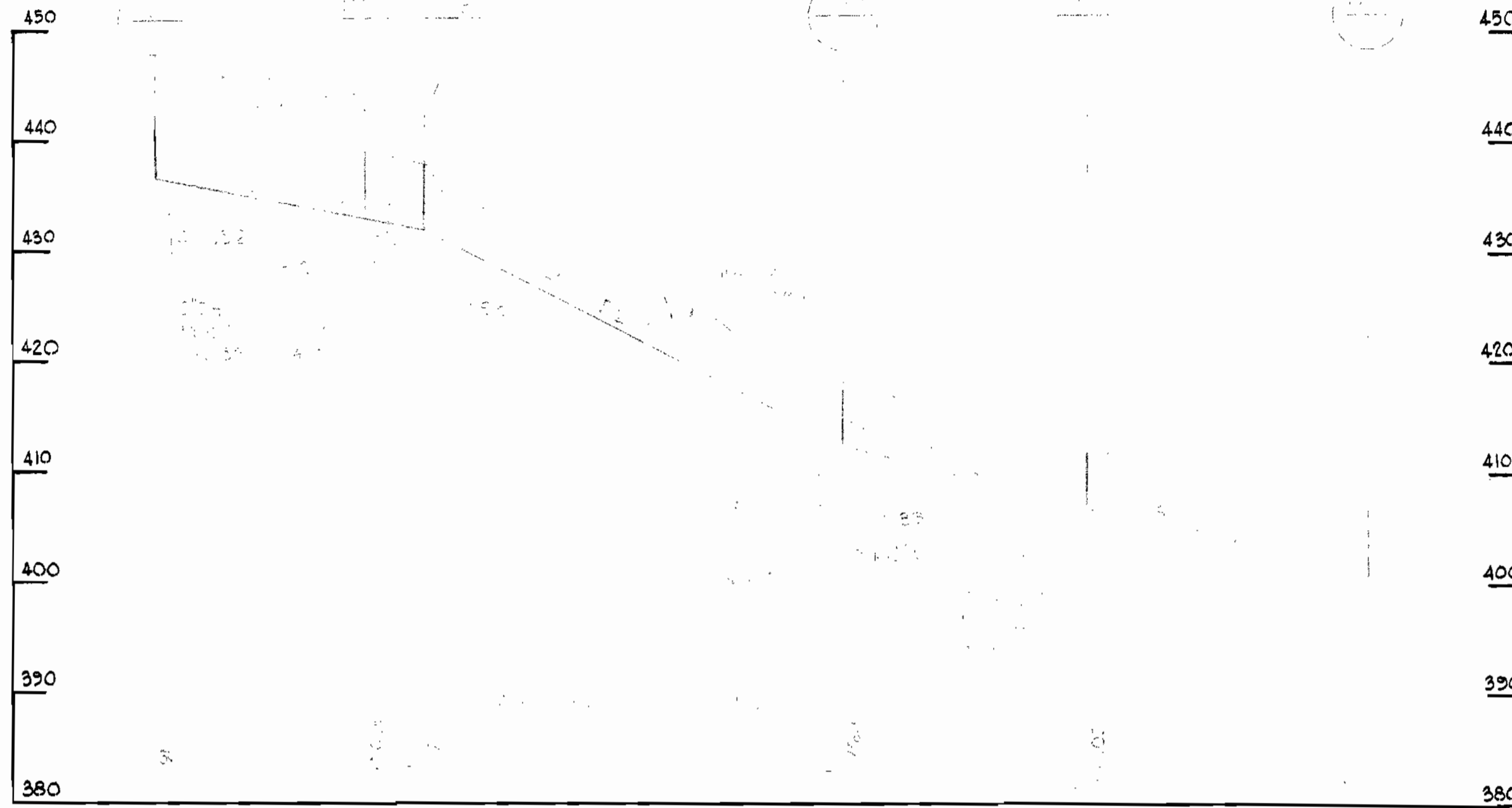
PLAN & PROFILES OF  
WATER & SEWER MAINS

COLUMBIA  
VILLAGE OF WILDE LAKE  
ELECTION DISTRICT-CLARKSVILLE No.5

Contract No. 171W&S  
DRAWING NO. 4 OF 5  
SCALE AS SHOWN  
306-478  
305-478

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WS

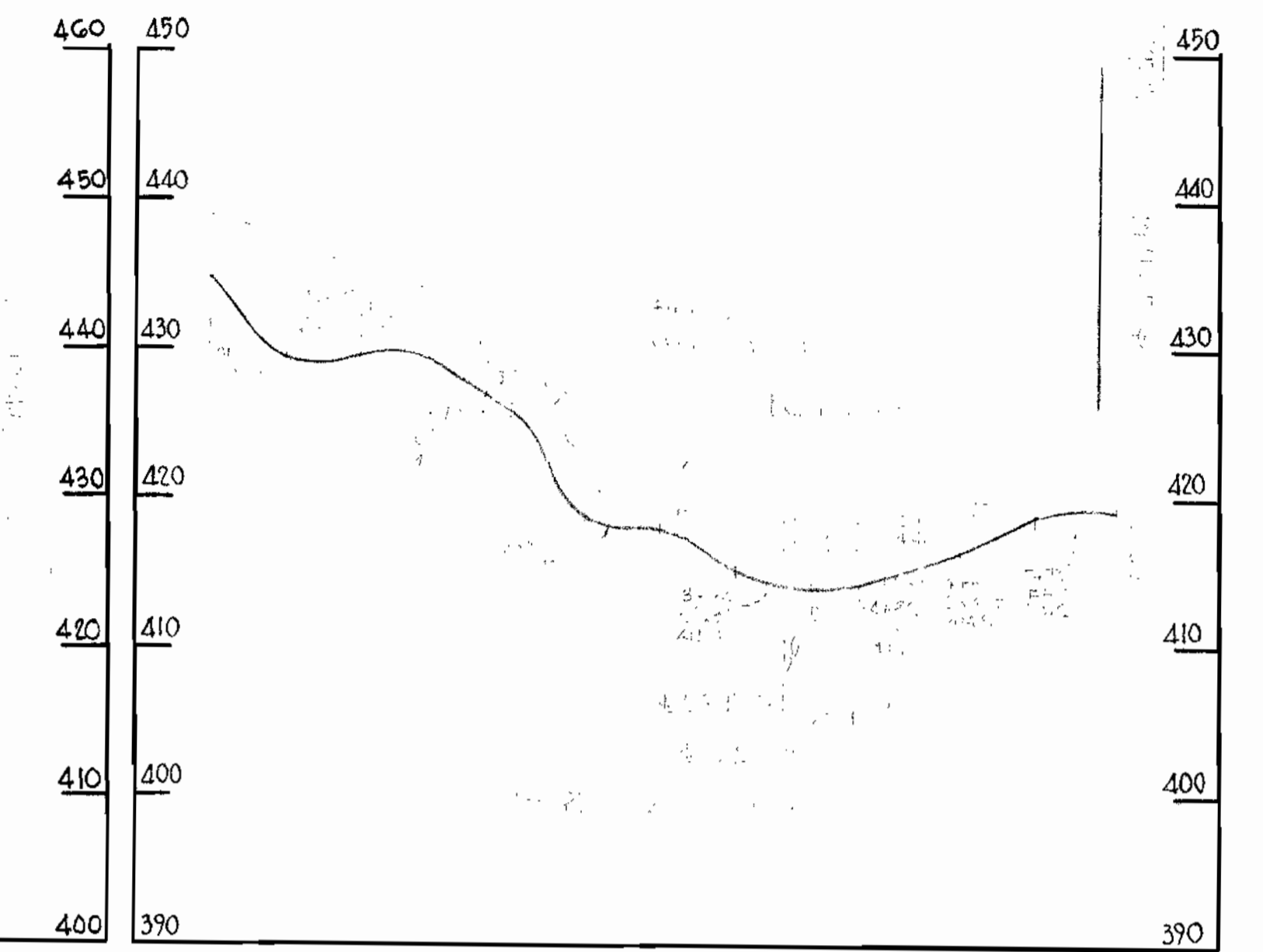
GARDEN APARTMENTS SEWER



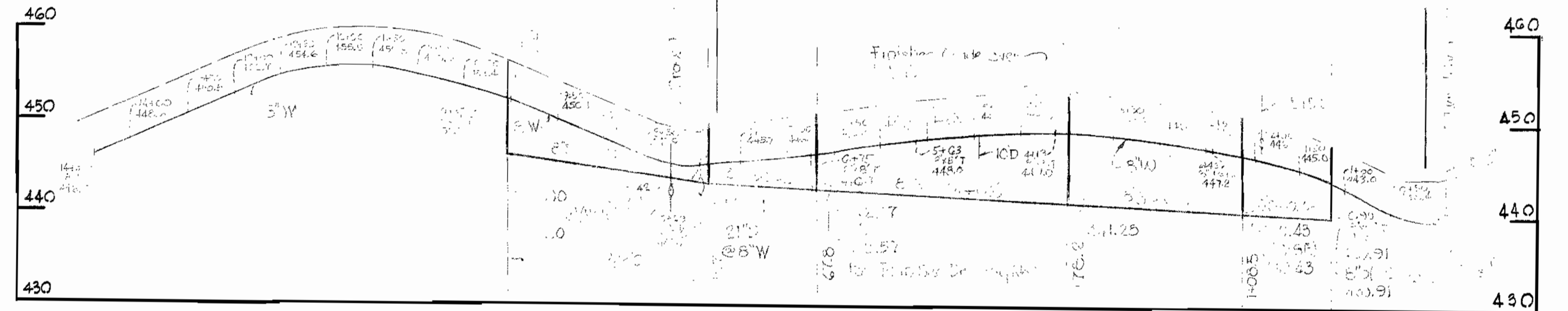
GARDEN APARTMENTS WATER



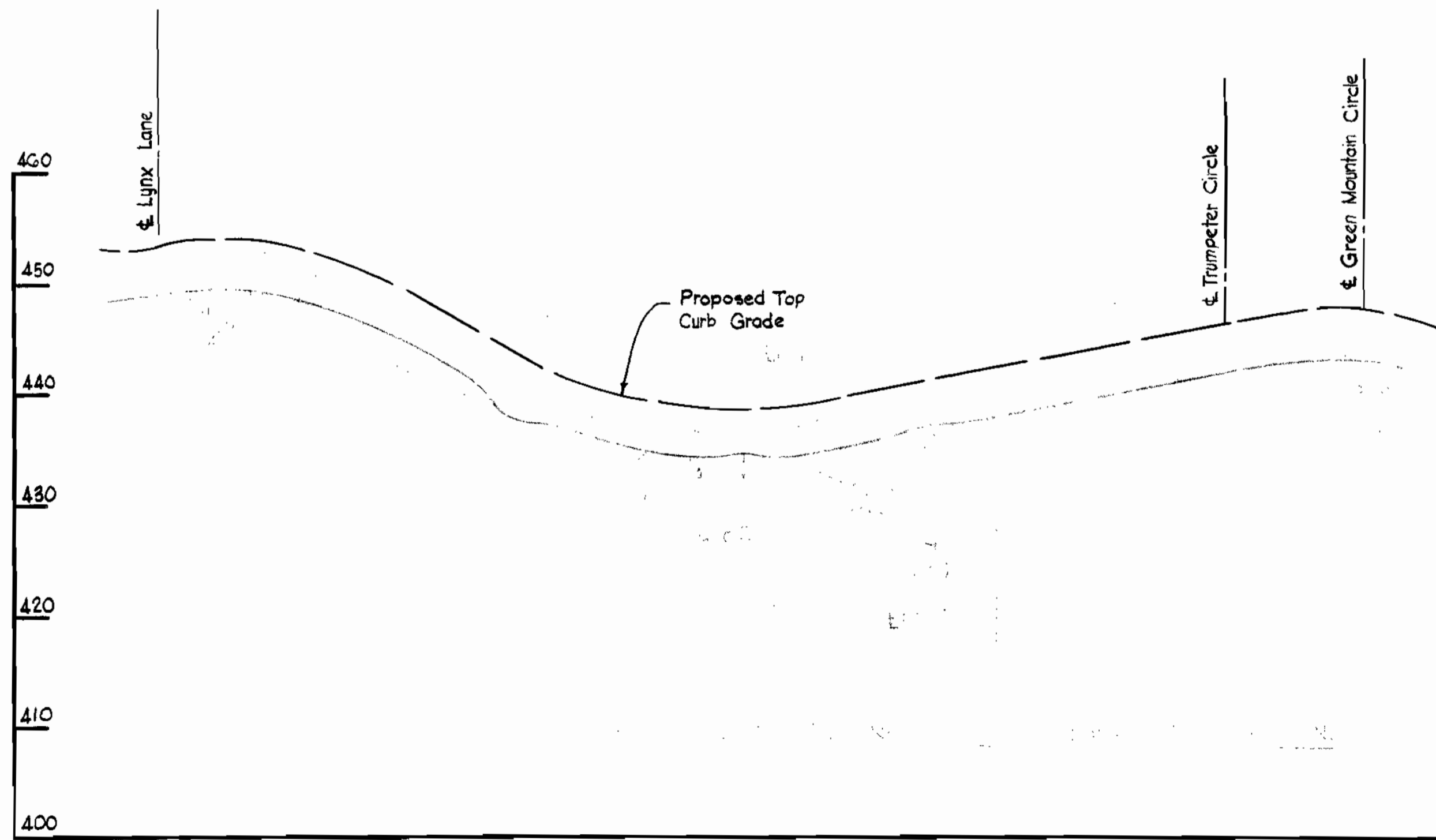
GARDEN APARTMENTS WATER



VILLAGE CENTER PROFILE I



TWIN RIVERS ROAD



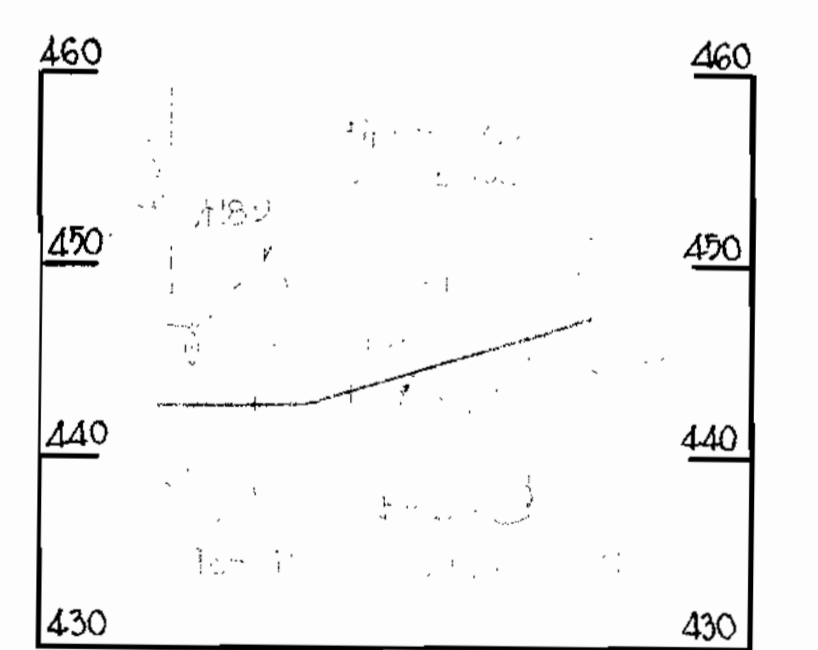
VILLAGE CENTER PROFILE III



VILLAGE CENTER PROFILE II



VILLAGE CENTER PROFILE IV



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HOWARD COUNTY METROPOLITAN COMMISSION

DATE

CHIEF ENGINEER

CONTRACT NO. 171-W&S

PROFILES OF  
WATER & SEWER MAINS

COLUMBIA  
VILLAGE OF WILDE LAKE  
ELECTION DISTRICT-CLARKSVILLE No.5

DRAWING  
NO. 5  
OF 5

SCALE  
H-1"=100'  
V-1"=10'

Contract No. 171 W&S

W. O. 5735

AS BUILT MAY 3, 1965



WS 171-W&S/5