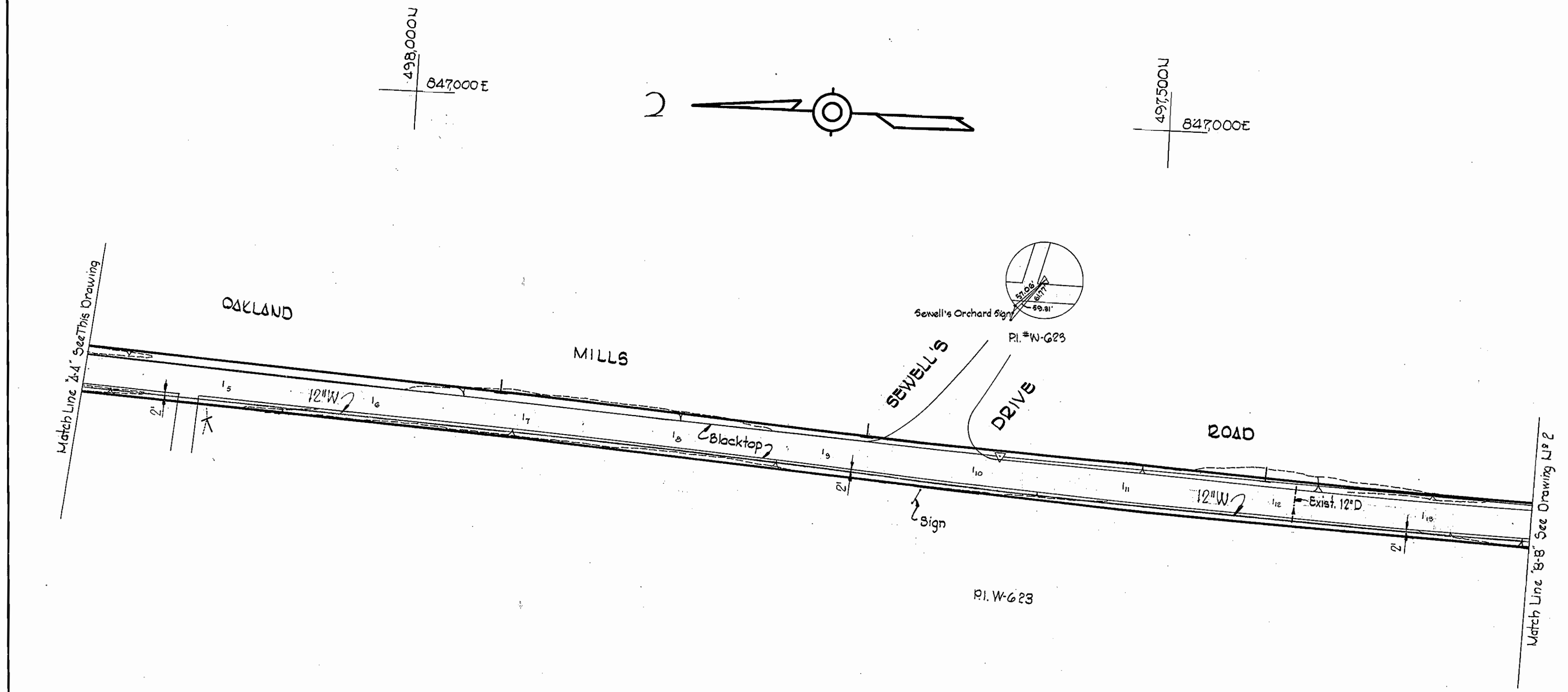


VICINITY MAP  
Scale: 1" = 100'

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.
2. All pipe elevations shown are invert elevations.
3. The Contractor shall locate existing utilities a minimum of two weeks in advance of construction operations in vicinity of utilities.
4. For all standard details see standards bound in Specifications.
5. All water mains shall have a minimum of 3/2' cover.
6. Block all fittings with concrete see standards bound in Specifications.
7. All fire hydrants shall be strapped to trees and shall be buttressed with concrete in accordance with Standard Details. Payment for Strapping of Valves and Hydrants to trees shall be included in unit price bid for furnishing and installing Fire Hydrants.
8. Clear all utilities by a minimum of 6', clear all poles by a 2'-0" minimum or tunnel as required.
9. All horizontal and vertical controls are based on Maryland State Datum.

AS BUILT  
STAKEOUT FB#4985  
DIARY FB#4987



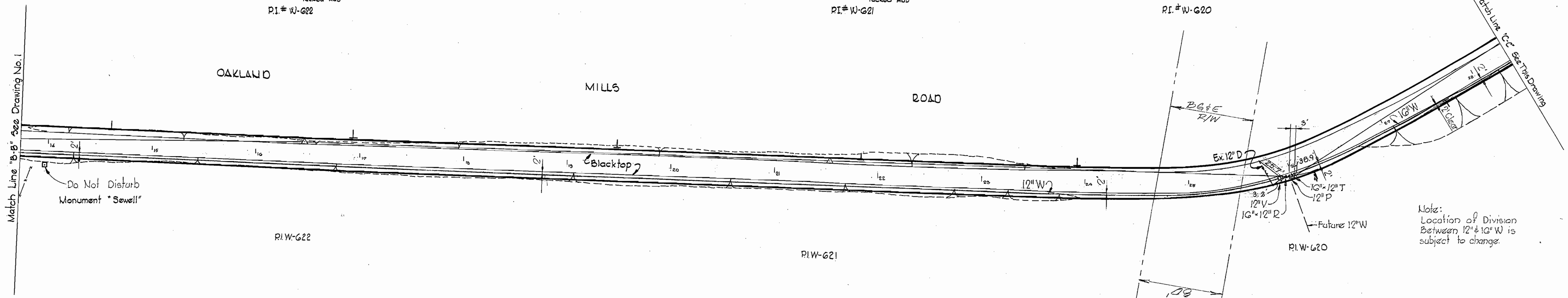
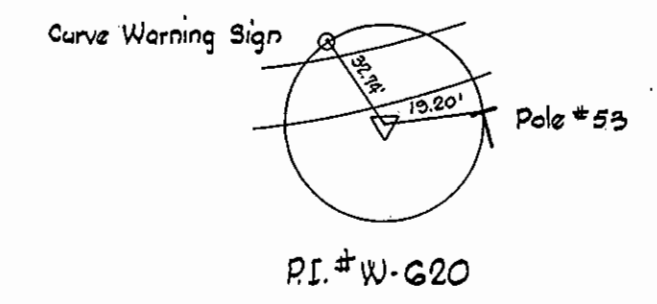
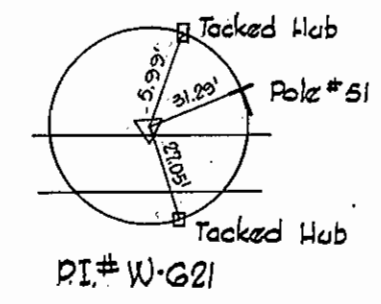
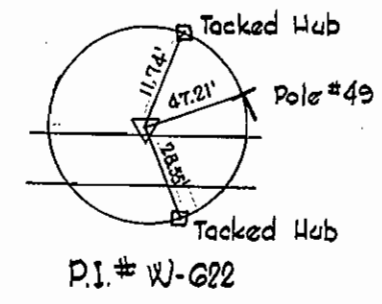
*Kenneth A. McCord*

Contract U# C-389-W

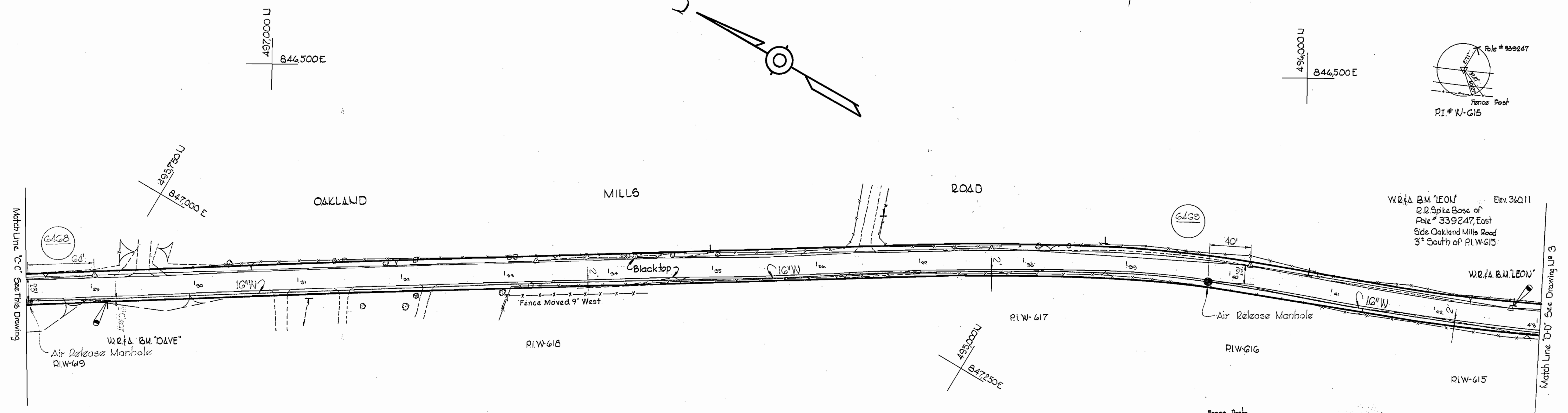
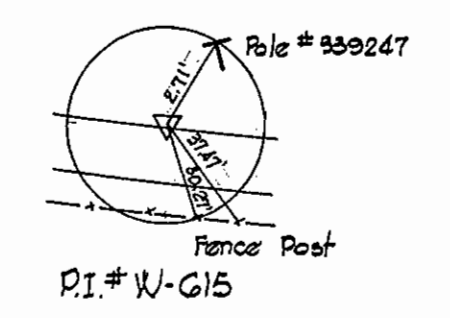
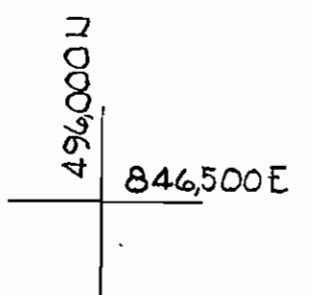
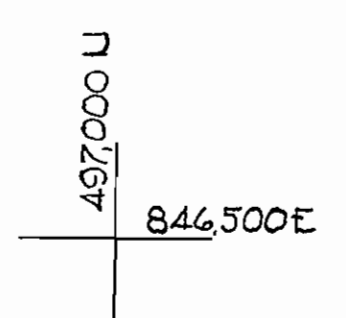
WHITMAN, REQUARDT & ASSOCIATES ENGINEERS 1304 ST. PAUL ST. BALTIMORE, MARYLAND	DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND 10-29-70 <i>W. O. Filbert</i> CHIEF-BUREAU OF WATER AND SEWER	CONTRACT NO. C-389-W	PLAN OF WATER MAINS	COLUMBIA OAKLAND MILLS WATER MAINS ELECTION DISTRICT GUILFORD NO. 6	DRAWING NO. 1 OF 8 SCALE AS SHOWN 497484 498484 499484
---	--	----------------------	------------------------	---	--

WS 389-W/1

Monument "Sewell" Elev. 40321  
 Concrete Monument Bronze  
 Disk on top 25' Left of Sta.  
 2+50 bet. P.I.W-622 & P.I.W-623  
 West Side Oakland Mills Road  
 10' from fence corner.

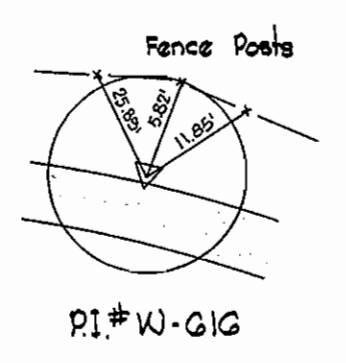
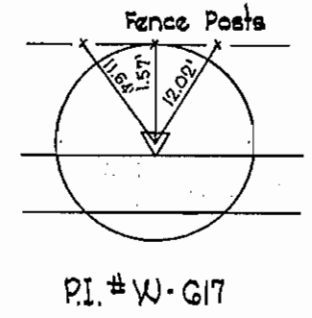
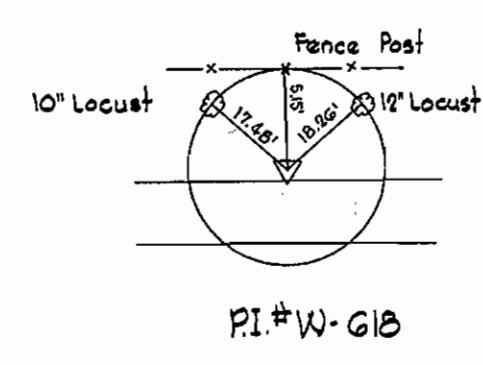
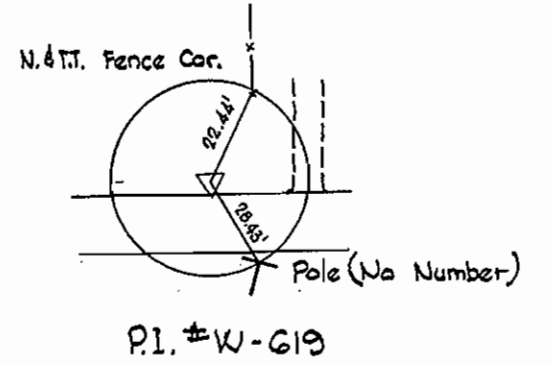


Note:  
 Location of Division  
 Between 12" & 10" W is  
 subject to change.



W.R. & B.M. "LEON" Elev. 360.11  
 2.2 Spike Base of  
 Pole # 339247, East  
 Side Oakland Mills Road  
 3' South of P.I.W-615

W.R. & B.M. "DAVE" Elev. 379.38  
 2.2 Spike Base of Pole (no  
 number) West Side Oakland Mills  
 Road 26' Left of P.I.W-619.



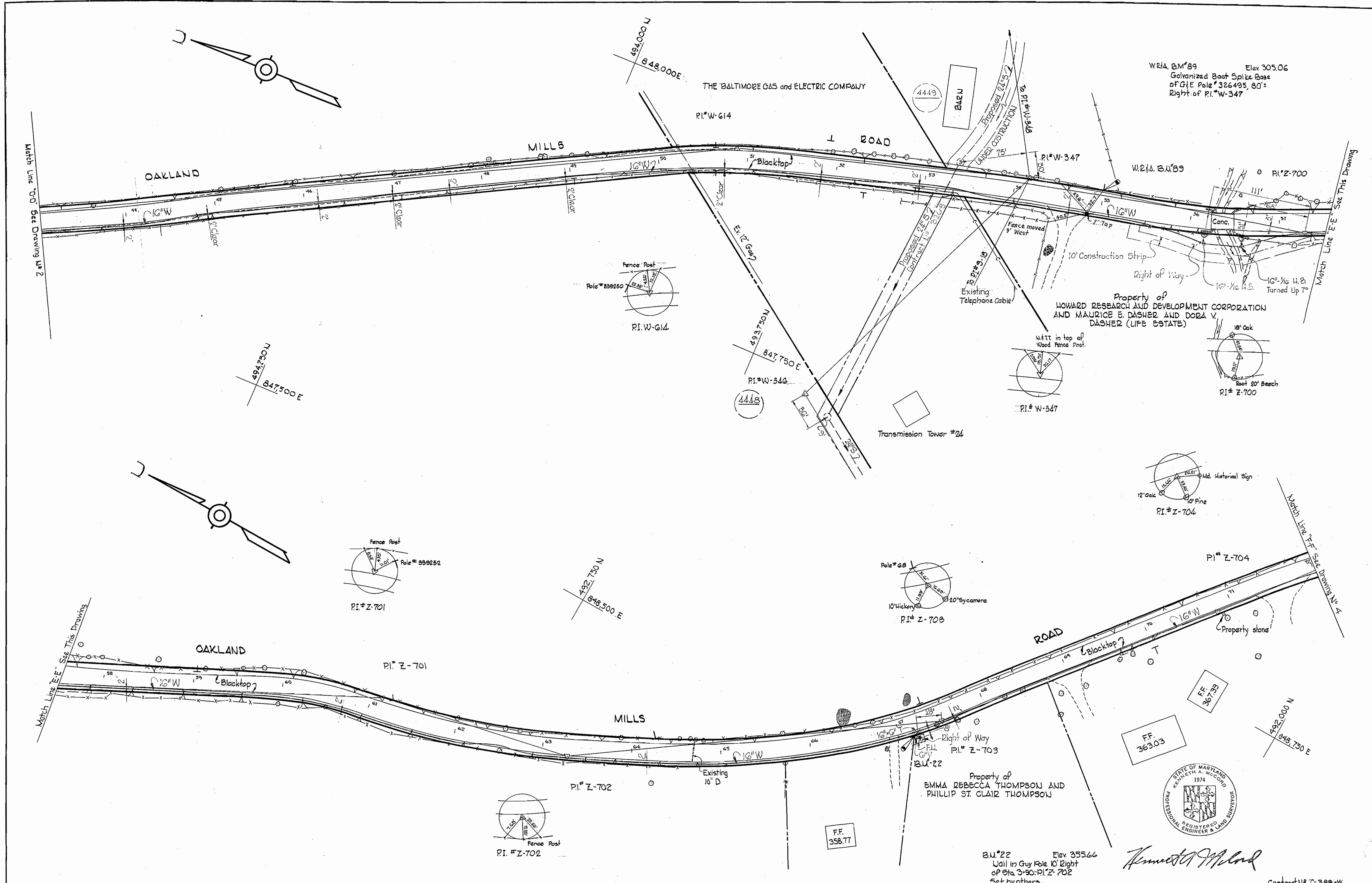
WHITMAN, REQUARDT & ASSOCIATES ENGINEERS 1304 ST. PAUL ST. BALTIMORE, MARYLAND	DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND DATE 10-29-70 W. O. Palmer CHIEF-BUREAU OF WATER AND SEWER	CONTRACT NO. C-389-W	PLAN OF WATER MAINS	COLUMBIA OAKLAND MILLS WATER MAINS ELECTION DISTRICT GUILFORD NO. 6	DRAWING NO. 2 OF 8 SCALE 1" = 50' 497-484 495-484 495-485
---	---	----------------------	------------------------	---	---

W. O. 60232

MARCH 28, 1972 AS BUILT FB: 4756, 4767

WS 389-W/2

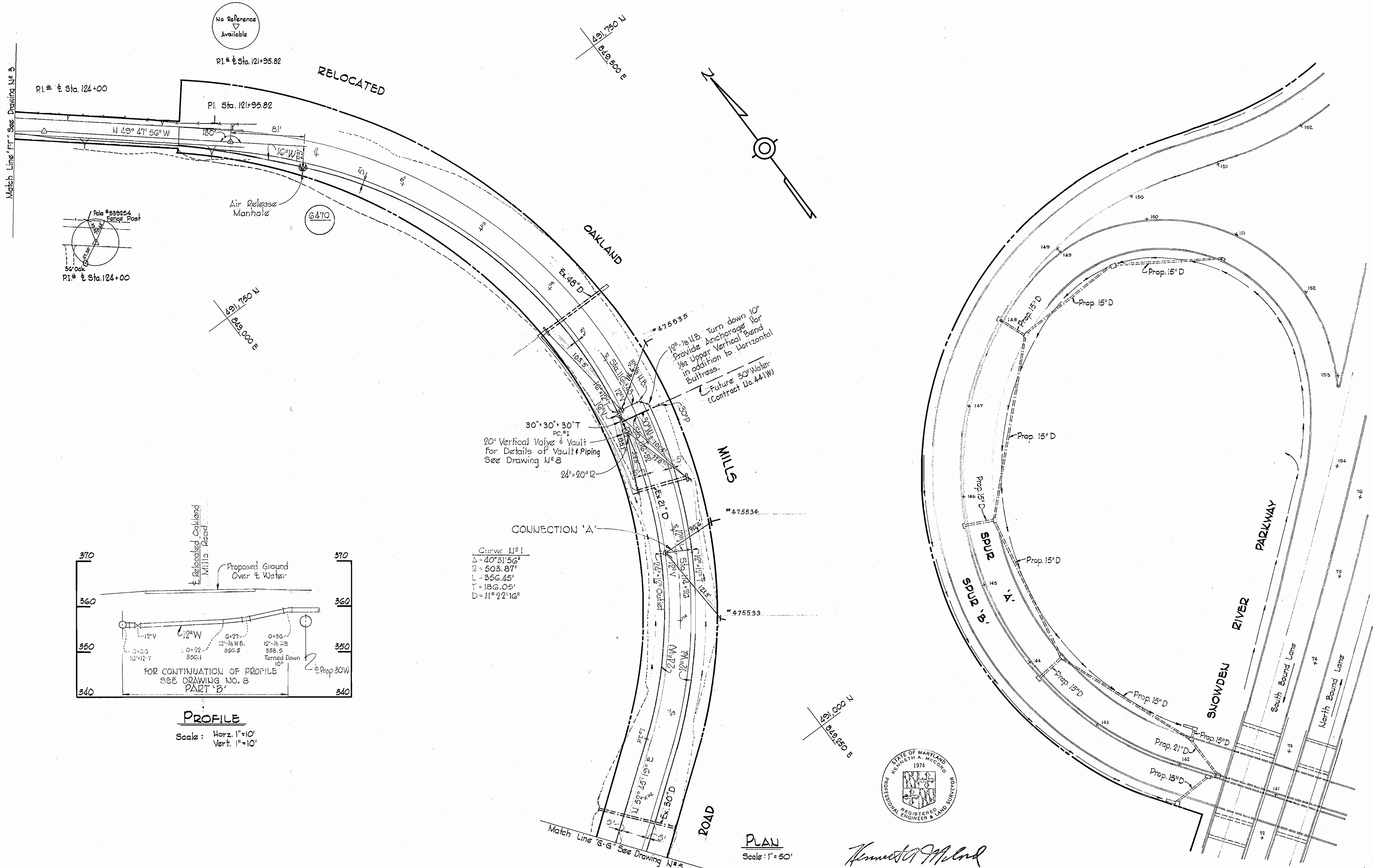




WHITMAN, REQUARDT & ASSOCIATES ENGINEERS 1304 ST. PAUL ST. BALTIMORE, MARYLAND	DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND DATE 10-29-70 <i>W. O. Fulbert</i> CHIEF-BUREAU OF WATER AND SEWER	CONTRACT NO. C-389-W	PLAN OF WATER MAINS	COLUMBIA OAKLAND MILLS WATER MAINS ELECTION DISTRICT GUILFORD NO. 6	DRAWING NO. 3 OF 8 SCALE 1" = 50' 493-485 494-485
---	---	----------------------	------------------------	---	--

W. O. 6023-2

WS 389-W/3



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

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND

10-29-70  
DATE

*W. O. Palmer*  
CHIEF-BUREAU OF WATER AND SEWER

CONTRACT NO. C-389-W

PLAN OF  
WATER MAINS

COLUMBIA  
OAKLAND MILLS WATER MAINS  
ELECTION DISTRICT GUILFORD NO. 6

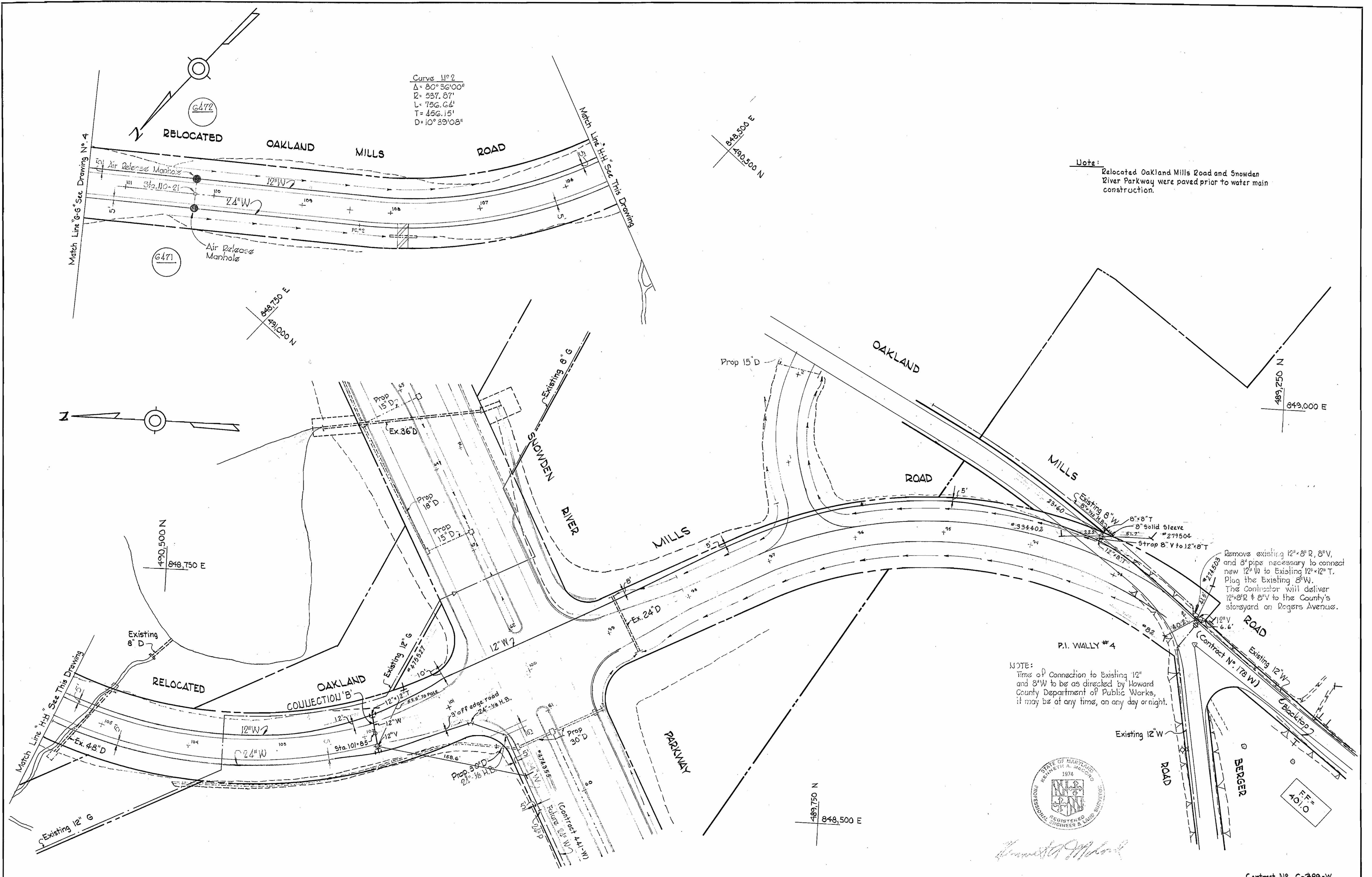
DRAWING  
NO. 4  
OF 8

SCALE  
1" = 50'  
491-486  
490-486

Contract No. C-389-W

WS 389-W/4

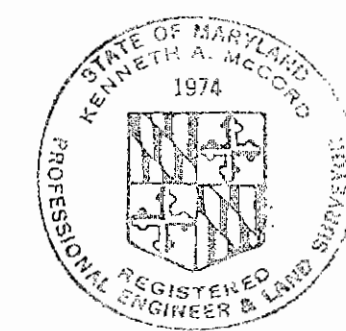




Note: Relocated Oakland Mills Road and Snowden River Parkway were paved prior to water main construction.

Remove existing 12" 8" R, 8" V, and 8" pipe necessary to connect new 12" W to Existing 12" 12" T. Plug the Existing 8" W. The Contractor will deliver 12" 8" R & 8" V to the County's stor yard on Rogers Avenue.

NOTE: Times of Connection to Existing 12" and 8" W to be as directed by Howard County Department of Public Works, if may be at any time, on any day or night.

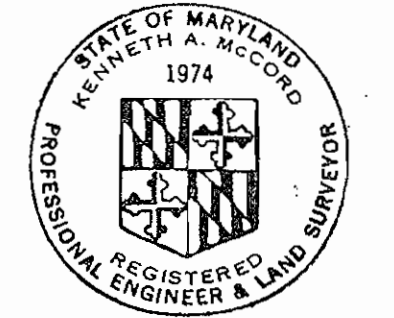
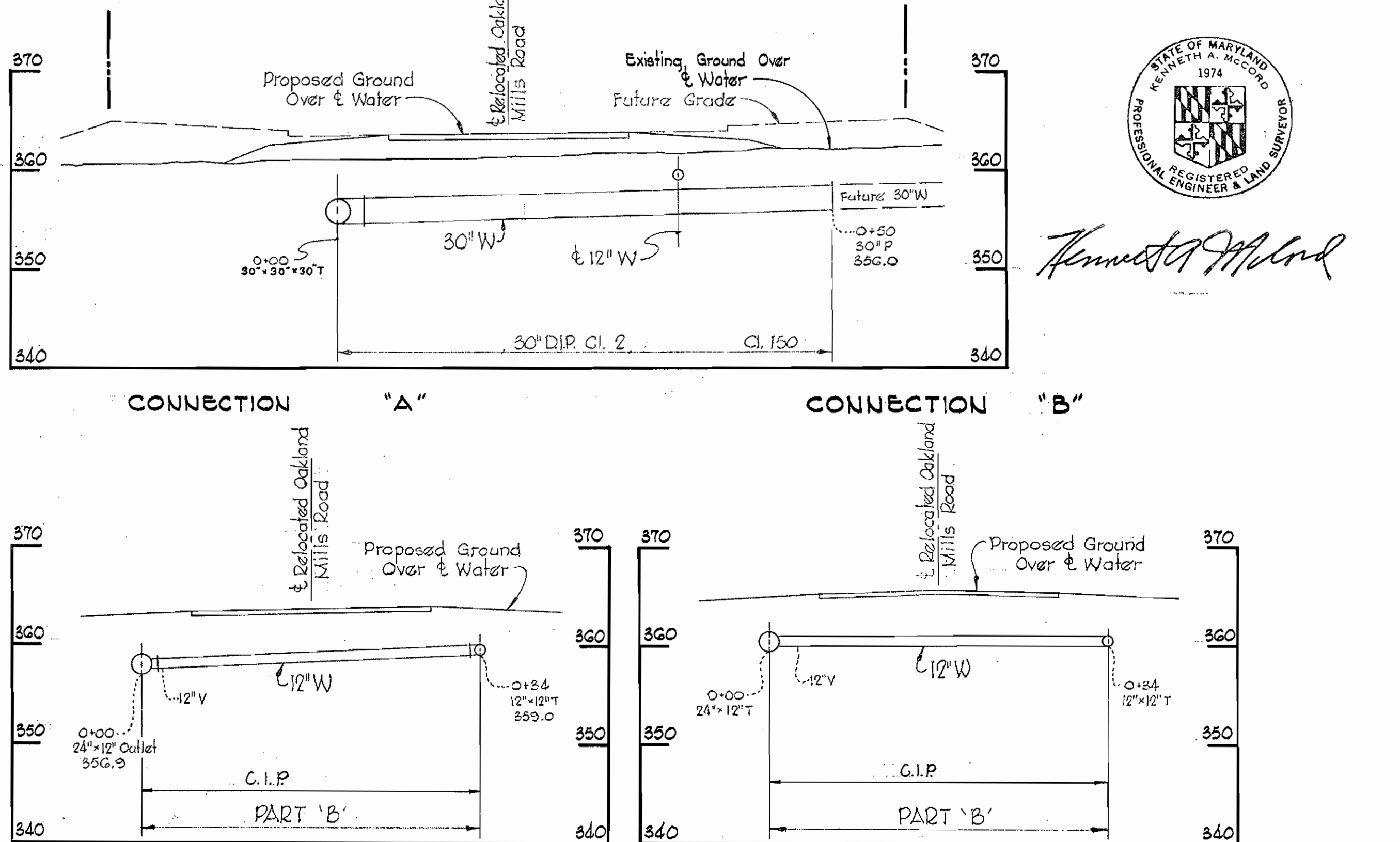
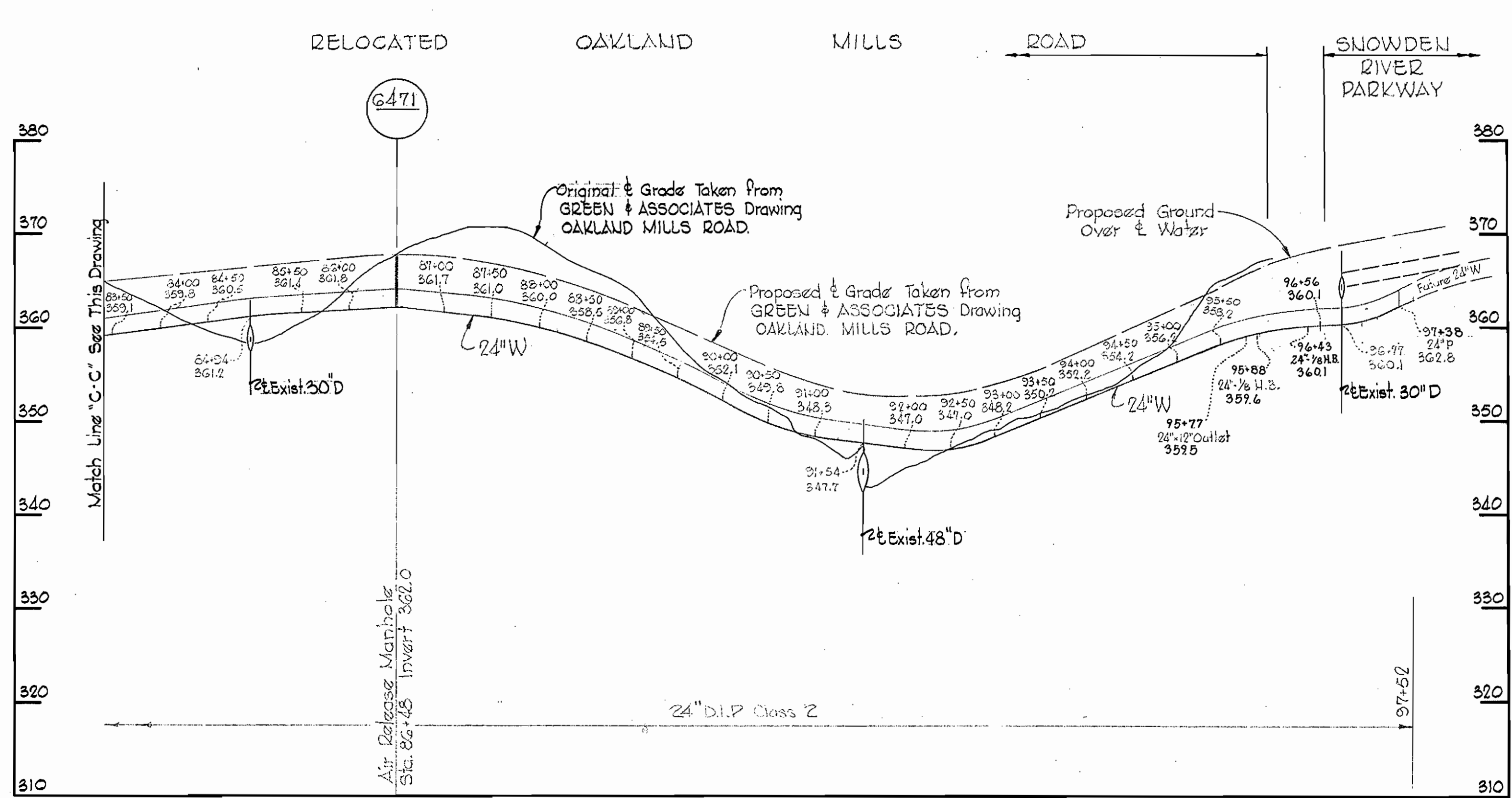
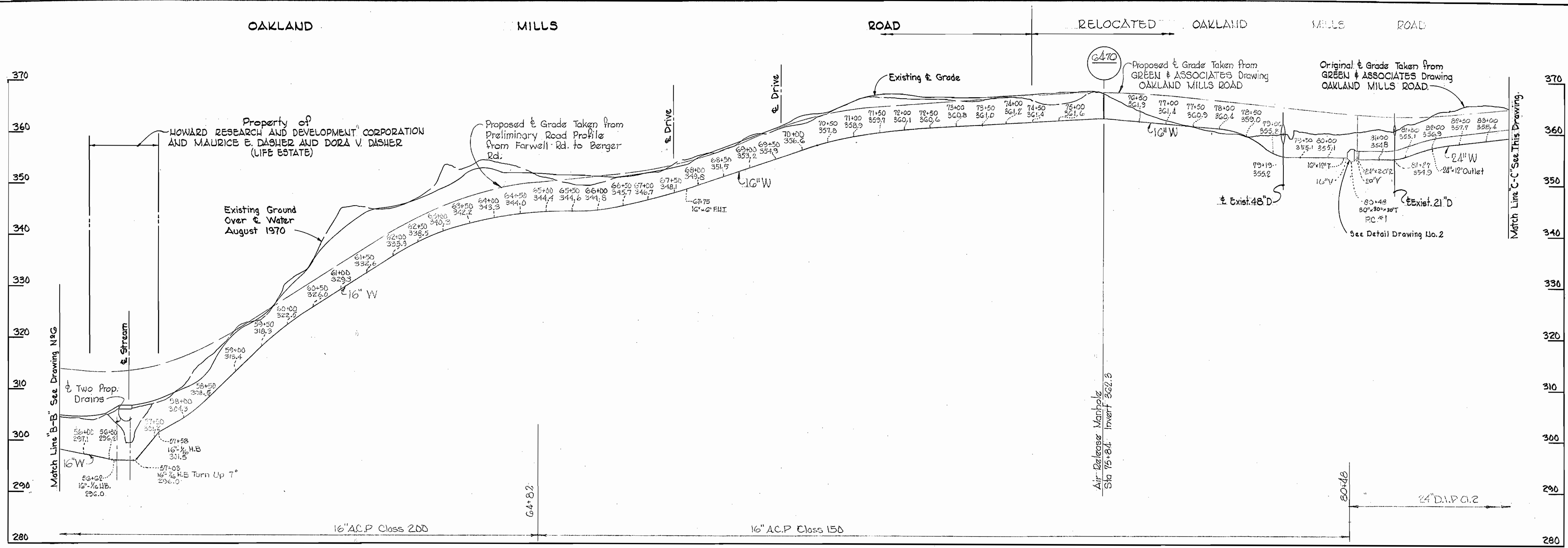


WHITMAN, REQUARDT & ASSOCIATES ENGINEERS 1304 ST. PAUL ST. BALTIMORE, MARYLAND	DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND 10-29-70 <i>W. O. Filbert</i> CHIEF-BUREAU OF WATER AND SEWER	CONTRACT NO. C-389-W	PLAN OF WATER MAINS	COLUMBIA OAKLAND MILLS WATER MAINS ELECTION DISTRICT GUILFORD NO. 6	Contract No. C-389-W Contract No. 5 OF 8	SCALE 1"=50' 489-485 489-486 490-485 490-486
					W. O. 6023-2	MARCH 28, 1972

WS 389-W/5







*Kenneth A. McCord*

**PROFILES** Scale: Horz. 1"=100' Vert. 1"=10'

**PROFILES** Scale: Horz. 1"=10' Vert. 1"=10'

Contract 44 C-389-W

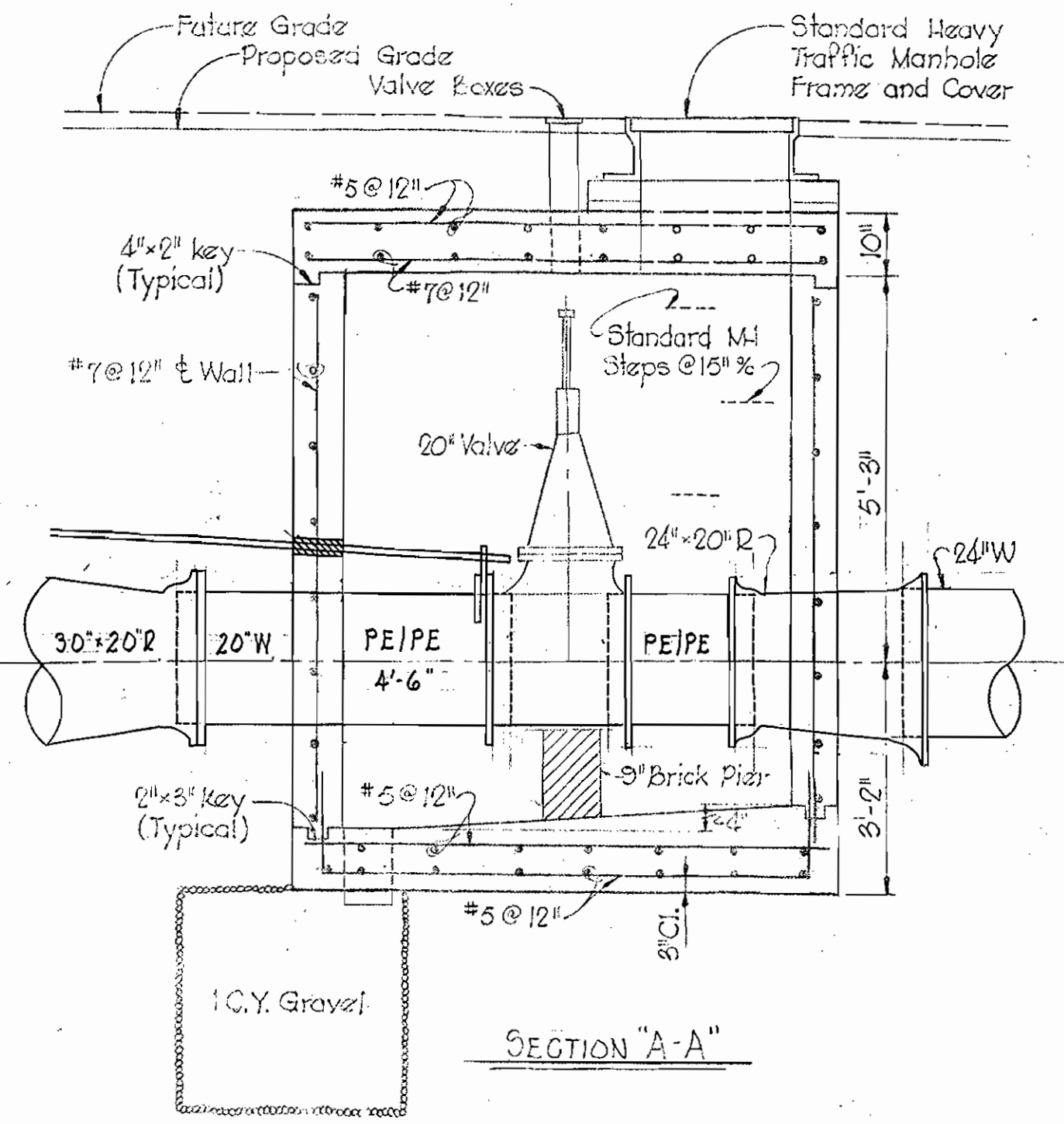
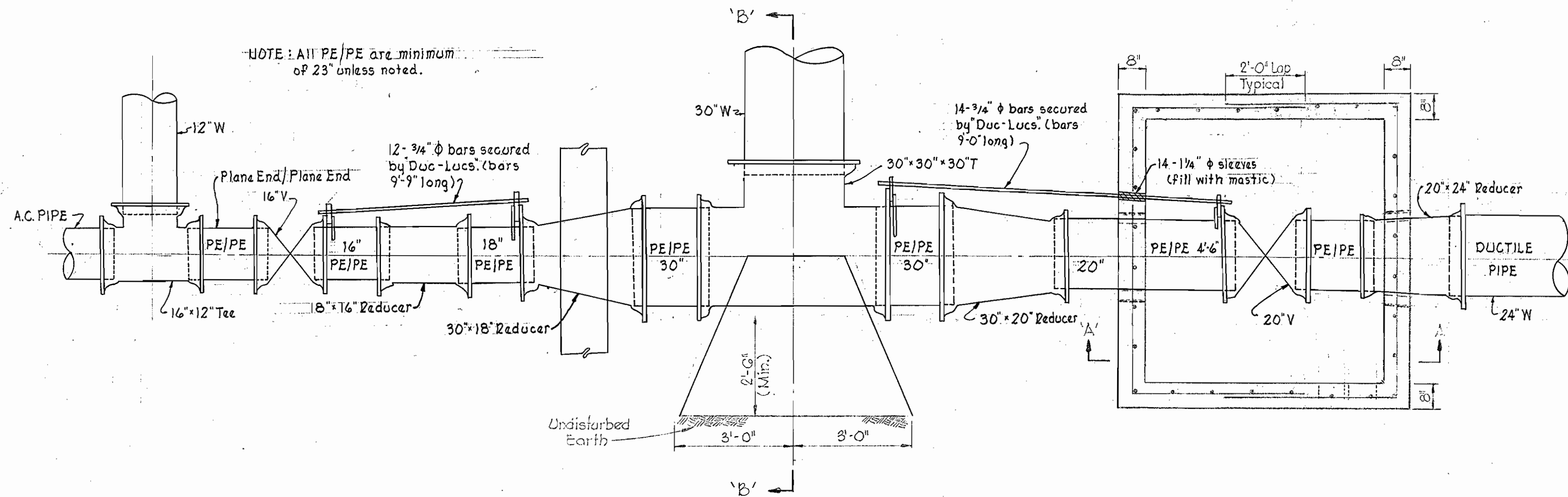
WHITMAN, REQUARDT & ASSOCIATES ENGINEERS 1304 ST. PAUL ST. BALTIMORE, MARYLAND	DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND DATE 10-29-70 <i>W. O. P. Libell</i> CHIEF-BUREAU OF WATER AND SEWER	CONTRACT NO. C-389-W	PROFILES OF WATER MAINS	COLUMBIA OAKLAND MILLS WATER MAINS ELECTION DISTRICT GUILFORD NO. 6	DRAWING NO. 7 OF 8 SCALE AS SHOWN
---	---	----------------------	----------------------------	---	--------------------------------------

W. O. G023-2

MARCH 28, 1972 AS BUILT

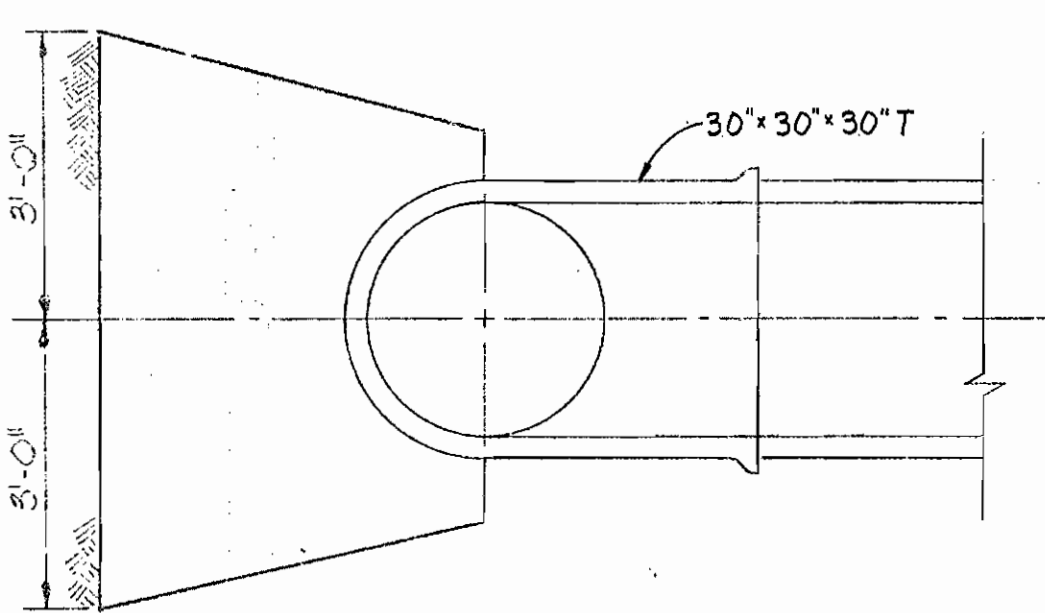
WS 389-W/7

NOTE: All PE/PE are minimum of 23' unless noted.

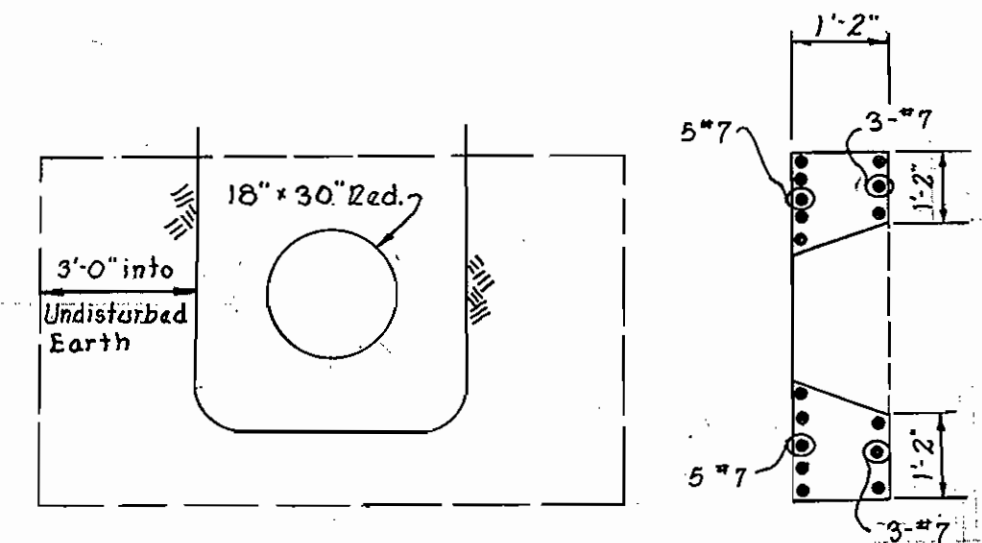


SECTIONAL PLAN

COAT ALL STEEL AS SPECIFIED



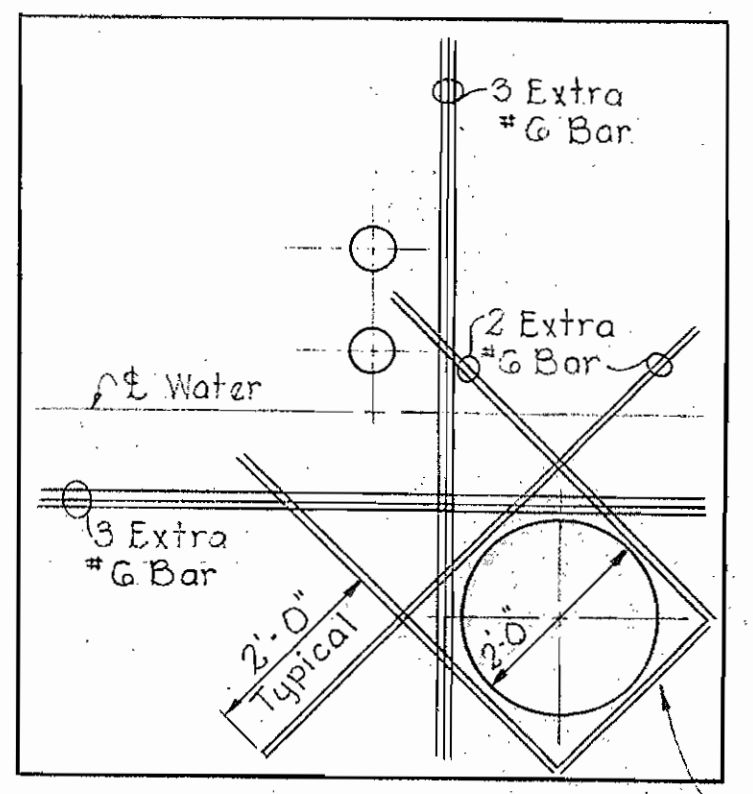
SECTION "B-B"



NOTES:

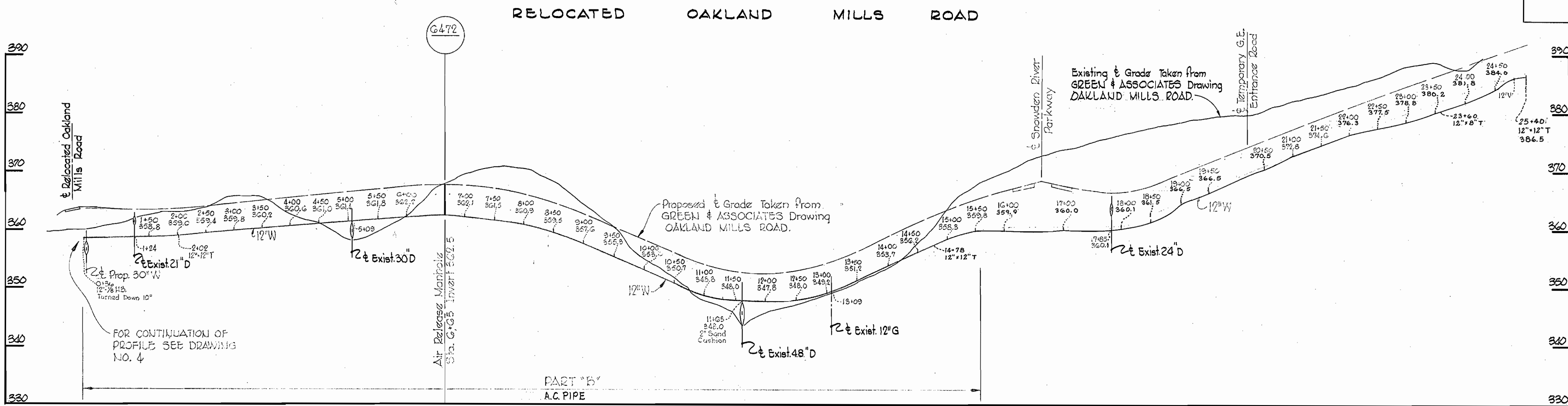
1. If Cast Iron, Ductile Iron or Asbestos Cement Pipe is used, the strapping method shall be approved by the Engineer.
2. Piping subjected to stresses resulting from strapping shall be designed for a horizontal thrust of 112,200 lbs.
3. All exposed steel shall be coated with two coats Mobile Asphalt 35-J-11, or approved equal.
4. Reinforcing steel shall conform to A.S.T.M. A-G15-70 Grade 40.
5. Reinforcing Bar Laps and Dowel projections shall be 30 Bar diameters unless otherwise noted.
6. All exposed Concrete Edges shall be chamfered 3/4\".
7. All Concrete shall be Class 'A'.

DETAILS OF 20" VERTICAL VALVE VAULT  
Scale: 1/2" = 1'-0"



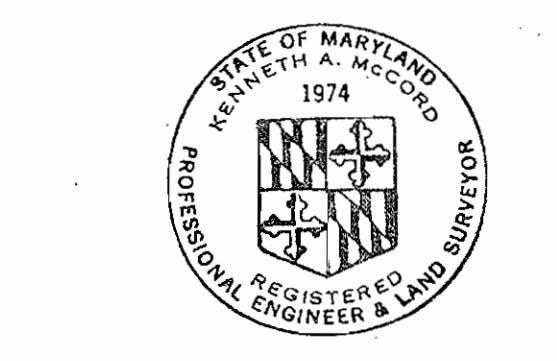
Typical Reinforcing Around openings in Slabs and Walls.

TOP SLAB PLAN



PROFILE  
Scale: Horz. 1"=100'  
Vert. 1"=10'

<b>WHITMAN, REQUARDT &amp; ASSOCIATES</b> ENGINEERS 1304 ST. PAUL ST. BALTIMORE, MARYLAND	DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND 10-29-70 <i>W. O. Roberts</i> CHIEF-BUREAU OF WATER AND SEWER	CONTRACT NO. C-389-W	PROFILES AND DETAILS OF WATER MAINS	COLUMBIA OAKLAND MILLS WATER MAINS ELECTION DISTRICT GUILFORD NO. 6	Contract N <sup>o</sup> C-389-W
					DRAWING NO. 8 OF 8



*Kenneth A. McCord*