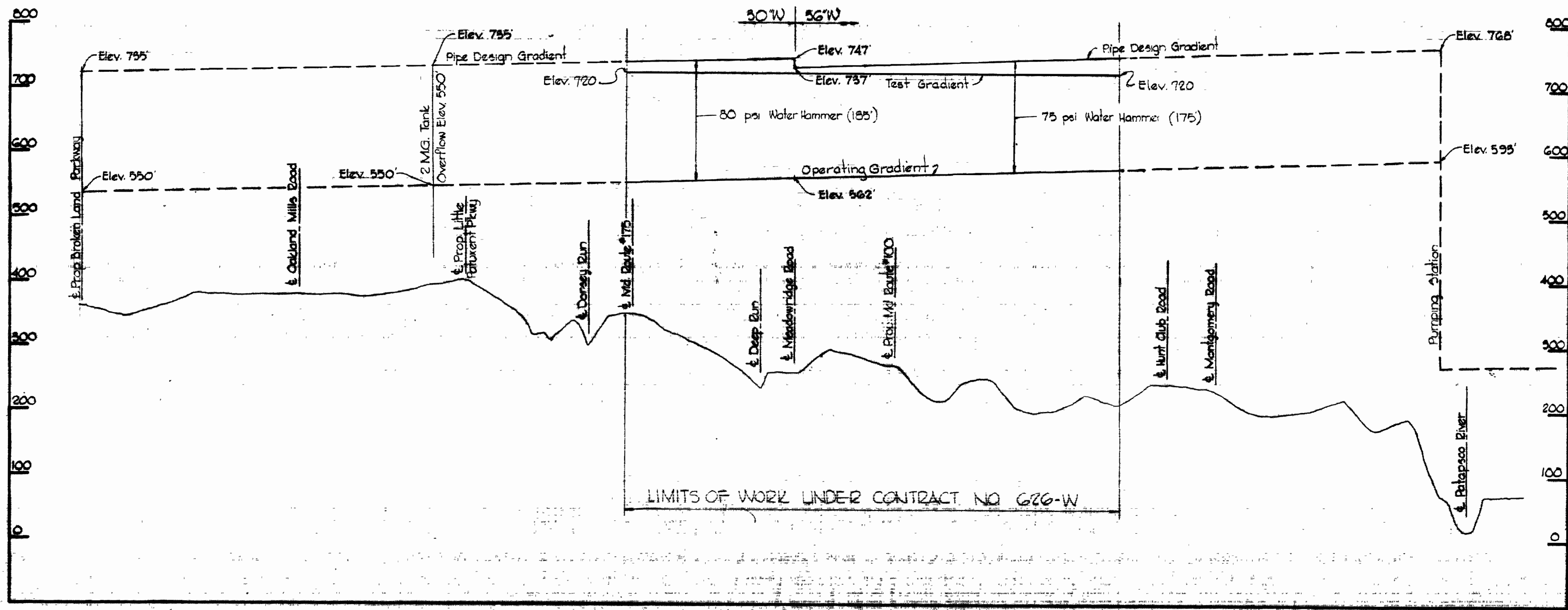


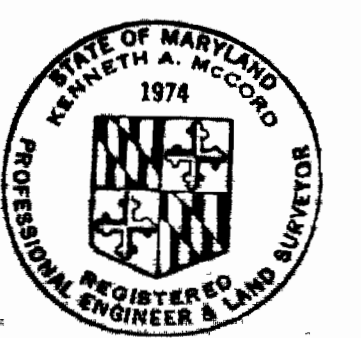
LOCATION PLAN

Scale: 1"=2000'



QUANTITIES	
ITEM	QUANTITY
30" Water	2,100 LF
30" Water	465 LF
Fire Hydrants	5

'AS-BUILT'  
 Diary FB#5800  
 Stakeout FB#5801  
 30" and 30" R.C.P.



*Kenneth A. McLeod*

PROFILE  
 Scale: 1/4"=2000'

Montgomery Road to  
 Mayfield Avenue  
 Contract No. 626-W

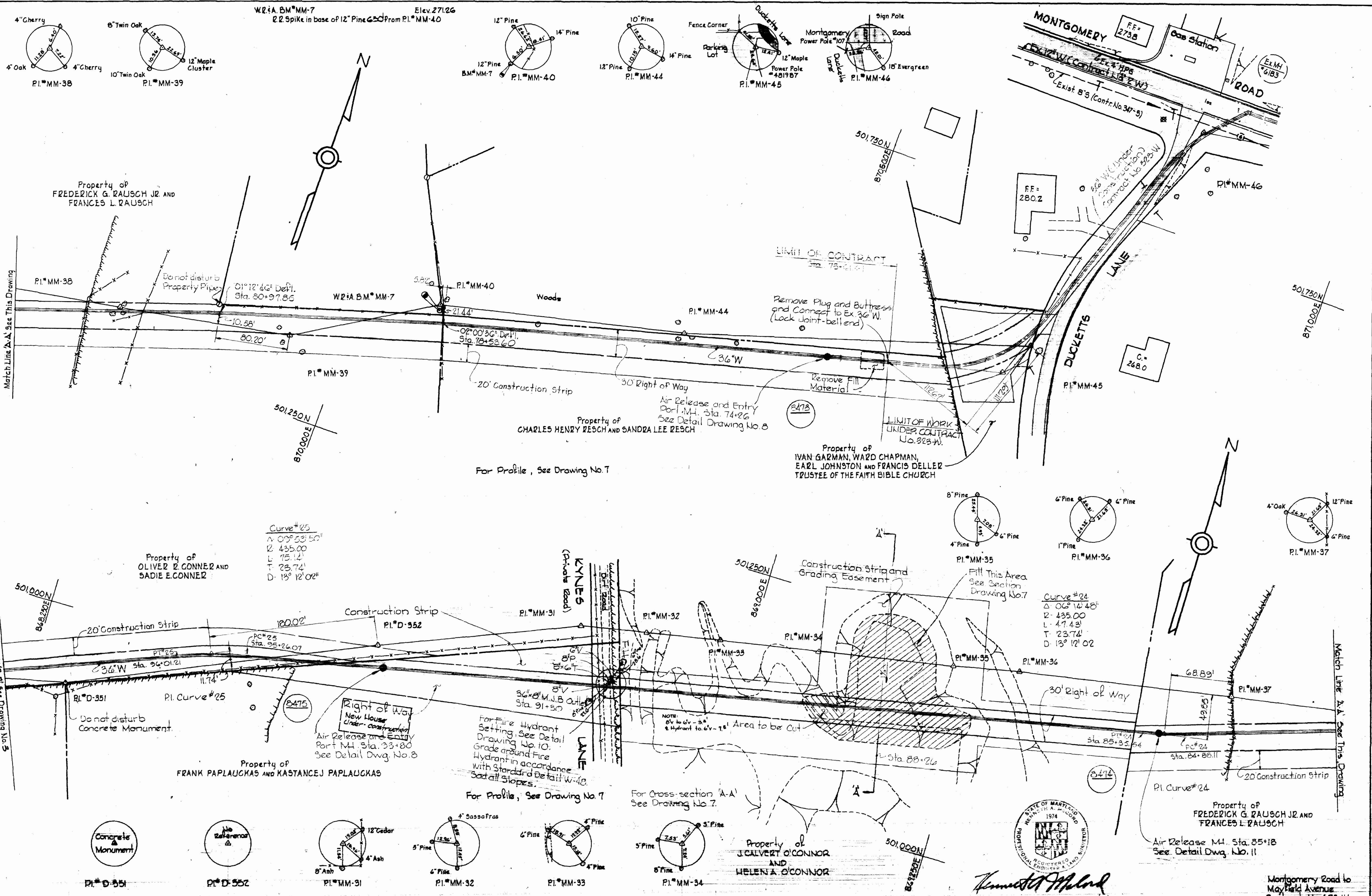
<b>WHITMAN, REQUARDT &amp; ASSOCIATES</b> ENGINEERS 1304 ST. PAUL ST. BALTIMORE, MARYLAND	<b>DEPARTMENT OF PUBLIC WORKS</b> HOWARD COUNTY, MARYLAND 4-21-75 W.D.	<b>CONTRACT NO. 626-W</b>	<b>LOCATION PLAN AND          HYDRAULIC GRADIENT</b>	<b>ELECTION DISTRICT          ELKIDGE NO. 1</b>	<b>DRAWING</b> NO. 1	<b>SCALE</b> AS SHOWN
					<b>OF 11</b>	December 4, 1974

W.D. 626-W

AS-BUILT

1/5 626-W/1





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

DEPARTMENT OF PUBLIC WORKS  
 HOWARD COUNTY, MARYLAND  
 DATE 4-21-75  
 CHIEF BUREAU OF ENGINEERING

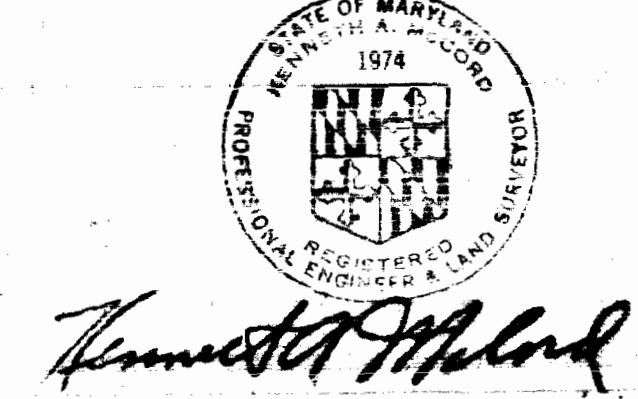
CONTRACT NO. 626-W

PLAN OF  
 WATER MAINS

ELECTION DISTRICT  
 ELKRIDGE NO. 1

DRAWING  
 NO. 2  
 OF 11

SCALE  
 1" = 50'



Montgomery Road to  
 Mayfield Avenue  
 Contract No. 626-W

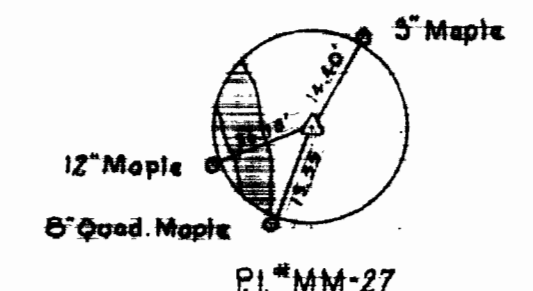
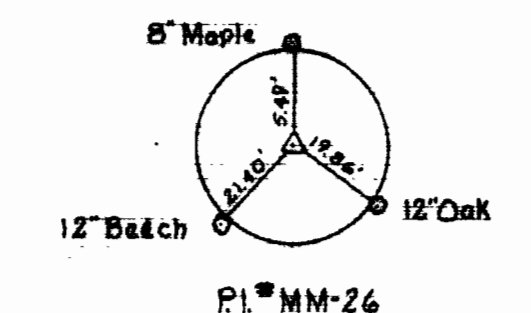
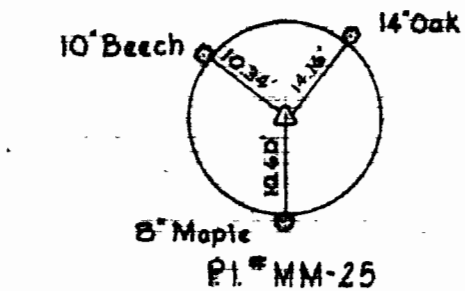
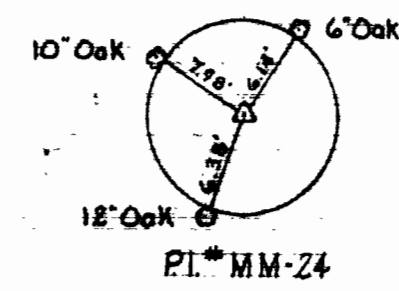
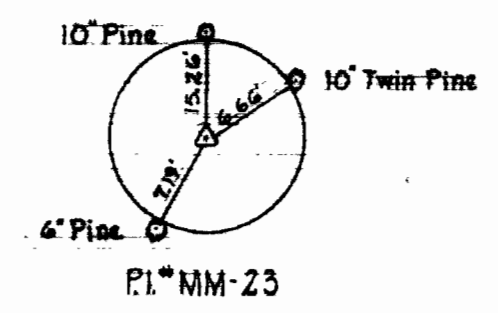
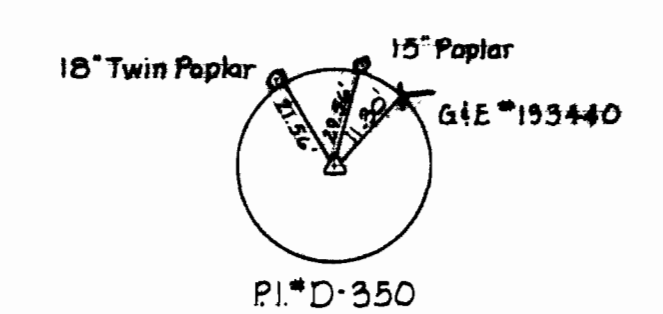
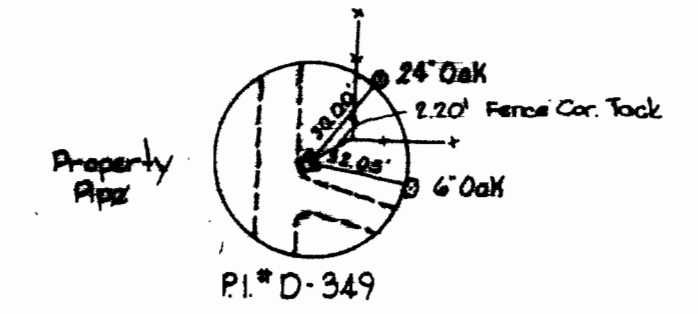
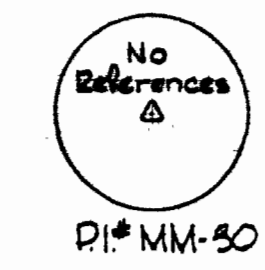
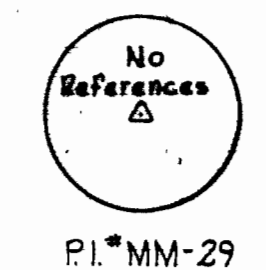
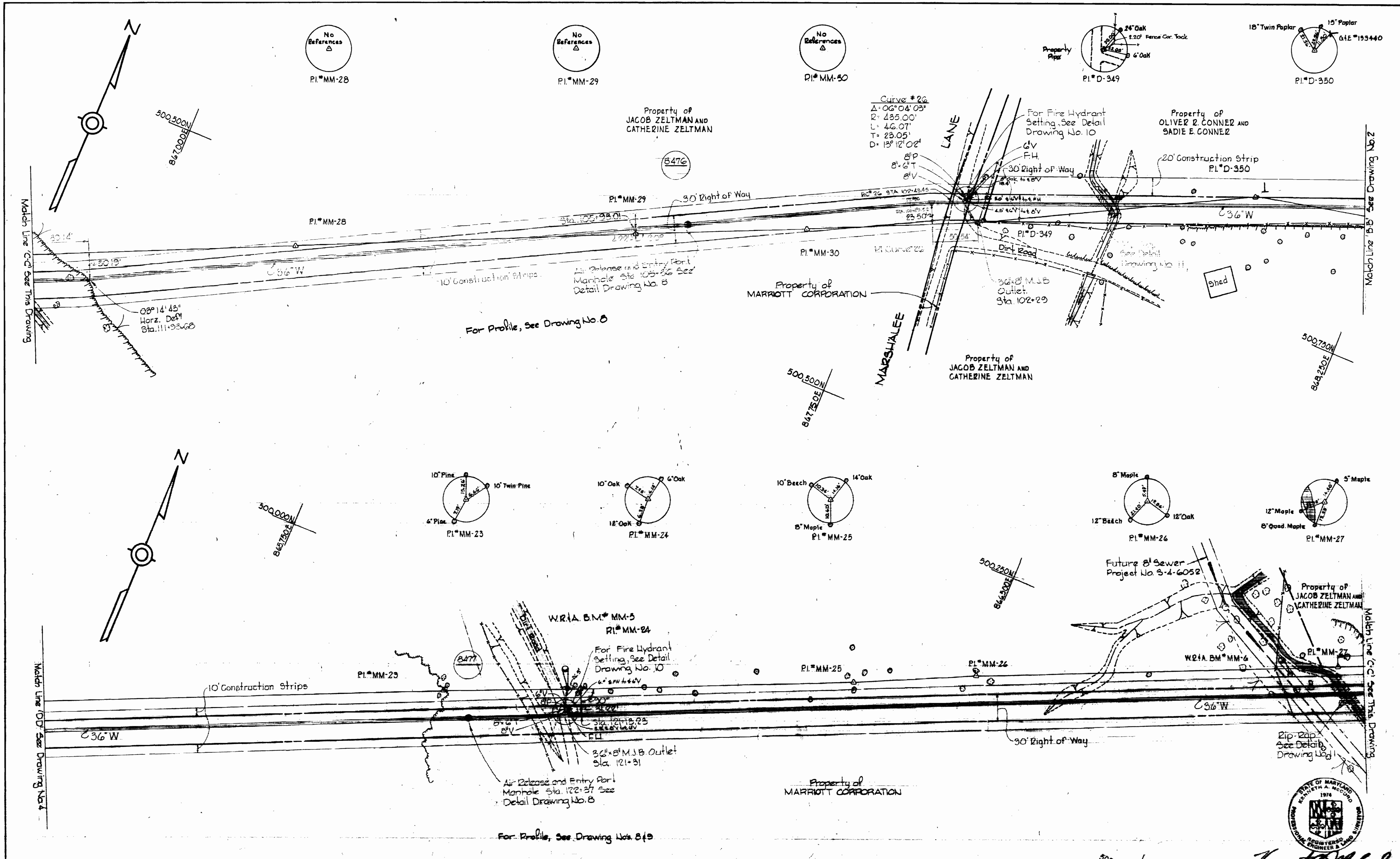
FB# 4205, 53004 5342  
 December 6, 1976 AS BUILT

WS 626-W/2

BR. J.W. 44-510 18392

W. O. GPST-2





WB1A BM-MM-5 Elev 216.49  
 2.2 Spike in 12' Oak, 15' from PI-MM-24  
 edge of dirt road

WB1A BM-MM-6 Elev 244.10  
 2.2 Spike in 16' Poplar 5'  
 Right of Transverse



*Kenneth M. Mohr*

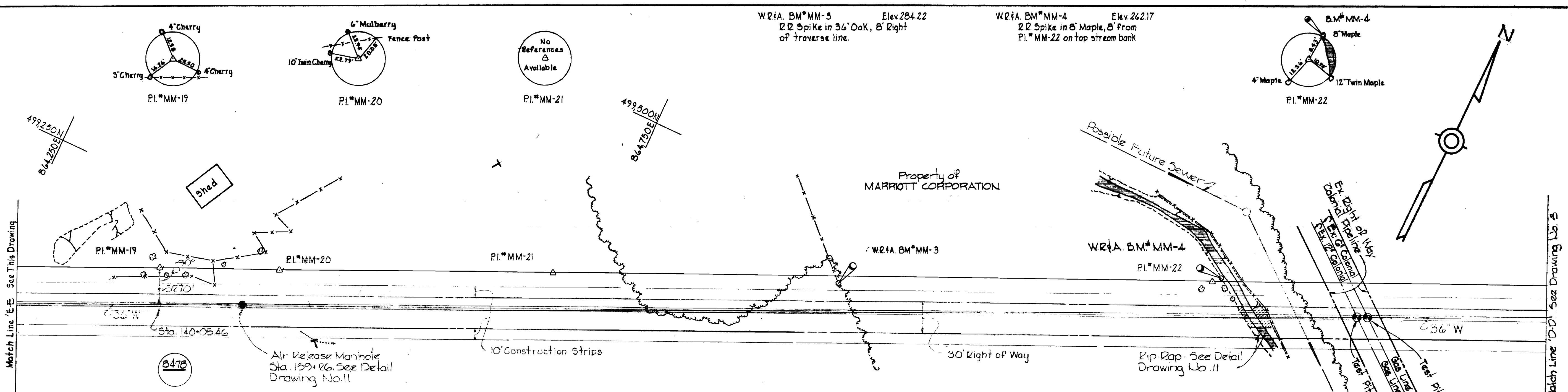
Montgomery Road to  
 Mayfield Avenue  
 Contract No. 626-W

<b>WHITMAN, REQUARDT &amp; ASSOCIATES</b> ENGINEERS 1304 ST. PAUL ST. BALTIMORE, MARYLAND	<b>DEPARTMENT OF PUBLIC WORKS</b> HOWARD COUNTY, MARYLAND 4-21-75 <i>W. O. Palbert</i> CHIEF BUREAU OF ENGINEERING	<b>CONTRACT NO. 626-W</b>	<b>PLAN OF WATER MAINS</b>	<b>ELECTION DISTRICT ELKRIDGE NO. 1</b>	<b>DRAWING NO. 3 OF 11</b> <b>SCALE 1" = 50'</b>
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W.O. 6257.2

December 6, 1974  
 FB-5506, 4905, 5342  
 AS BUILT

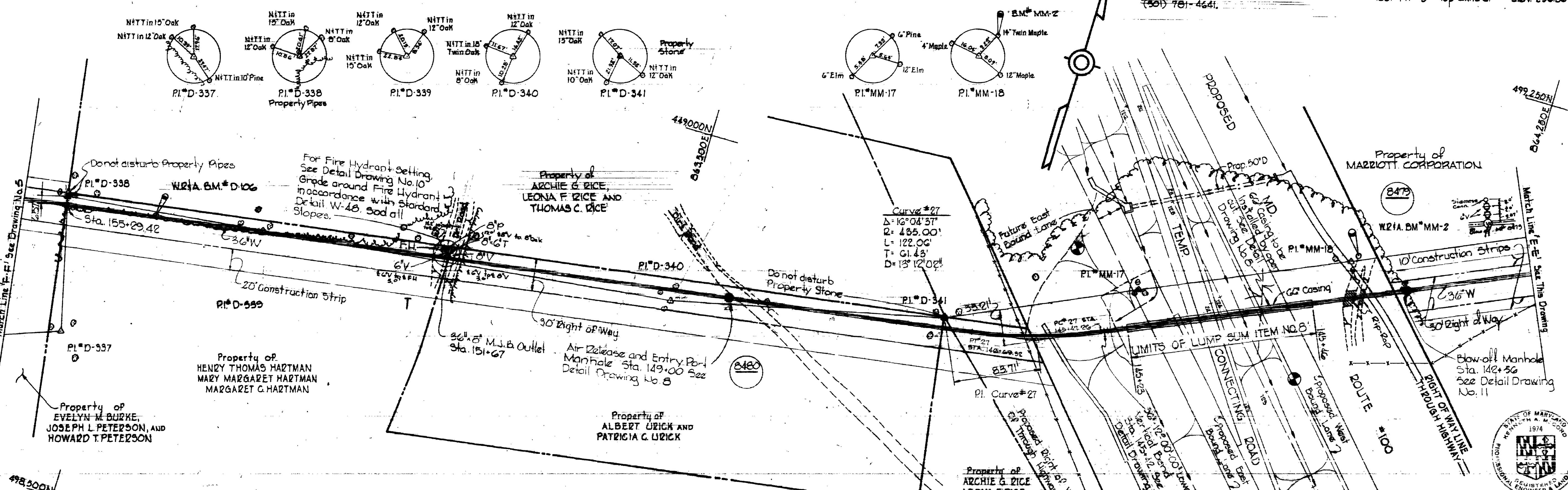




For Profile, See Drawing No. 9

Note:  
 The Contractor shall notify The Colonial Pipeline Company 72 hours in advance of excavation in vicinity of the Colonial Pipeline Company Right of Way by calling Colonial Division Office, Richmond, Va. (804) 288-9771 or Mr. S.H. Grumlich, Area Supervisor, Baltimore, Md. (501) 781-4641.

Test Pit #2 Top Ex. G.G. Elev. 259.18  
 Test Pit #3 Top Ex. 12' G. Elev. 256.66



For Profile, See Drawing No. 9

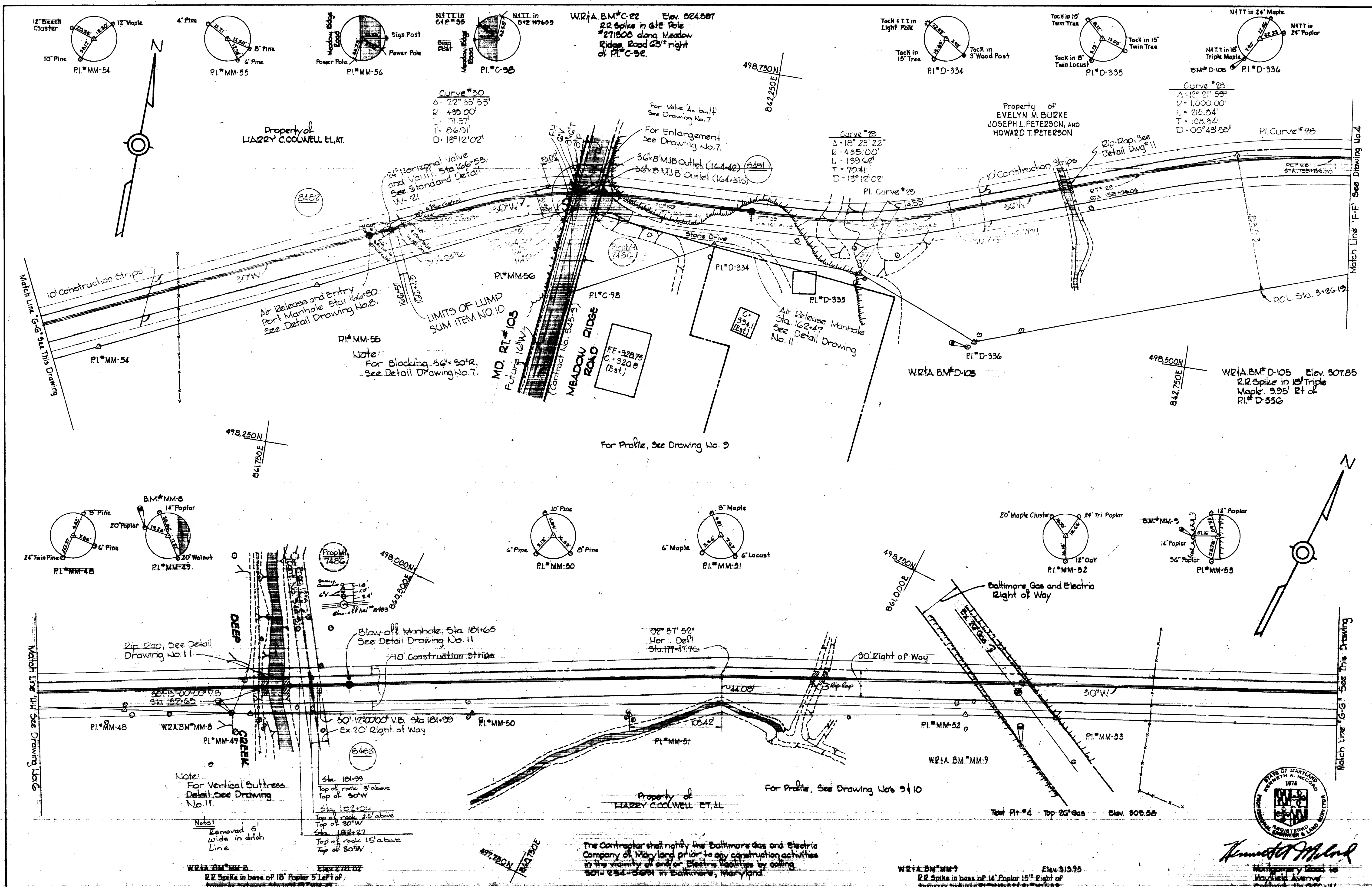
W.R.I.A. B.M. # D-106 Elev. 566.70  
 2 1/2" Spike in 24" Twin Oak,  
 5" Sp. at Sta. 157+25.50  
 P.I. # D-558 and D-559

W.R.I.A. B.M. # MM-2 Elev. 302.28  
 2 1/2" Spike in 14" Twin Maple, 10'  
 Left of P.I. # MM-18.

<b>WHITMAN, REQUARDT &amp; ASSOCIATES</b> ENGINEERS 1304 ST. PAUL ST. BALTIMORE, MARYLAND	<b>DEPARTMENT OF PUBLIC WORKS</b> HOWARD COUNTY, MARYLAND DATE: 4-21-75 W.O. Falout CHIEF BUREAU OF ENGINEERING	CONTRACT NO. 628-W	<b>PLAN OF</b> <b>WATER MAINS</b>	<b>ELECTION DISTRICT</b> <b>ELKRIDGE NO. 1</b>	<b>DRAWING</b> NO. 4 OF 11 <b>SCALE</b> 1" = 50' AS BUILT
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WS 626-W/4





Property of  
LARRY C. COLWELL ET AL.

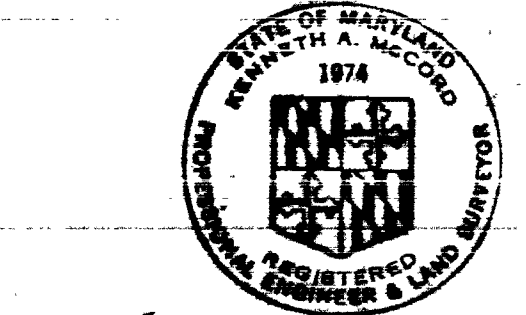
Property of  
EVELYN M. BURKE  
JOSEPH L. PETERSON, AND  
HOWARD T. PETERSON

For Profile, See Drawing No. 9

For Profile, See Drawing No. 9 & 10

Property of  
LARRY C. COLWELL ET AL.

The Contractor shall notify the Baltimore Gas and Electric Company of Maryland prior to any construction activities in the vicinity of any of Electric facilities by calling 501-234-3567 in Baltimore, Maryland.



Montgomery Road to  
Mayfield Avenue  
Contract No. GEC-W

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

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND  
4-21-75  
DATE

CONTRACT NO. 826-W

PLAN OF  
WATER MAINS

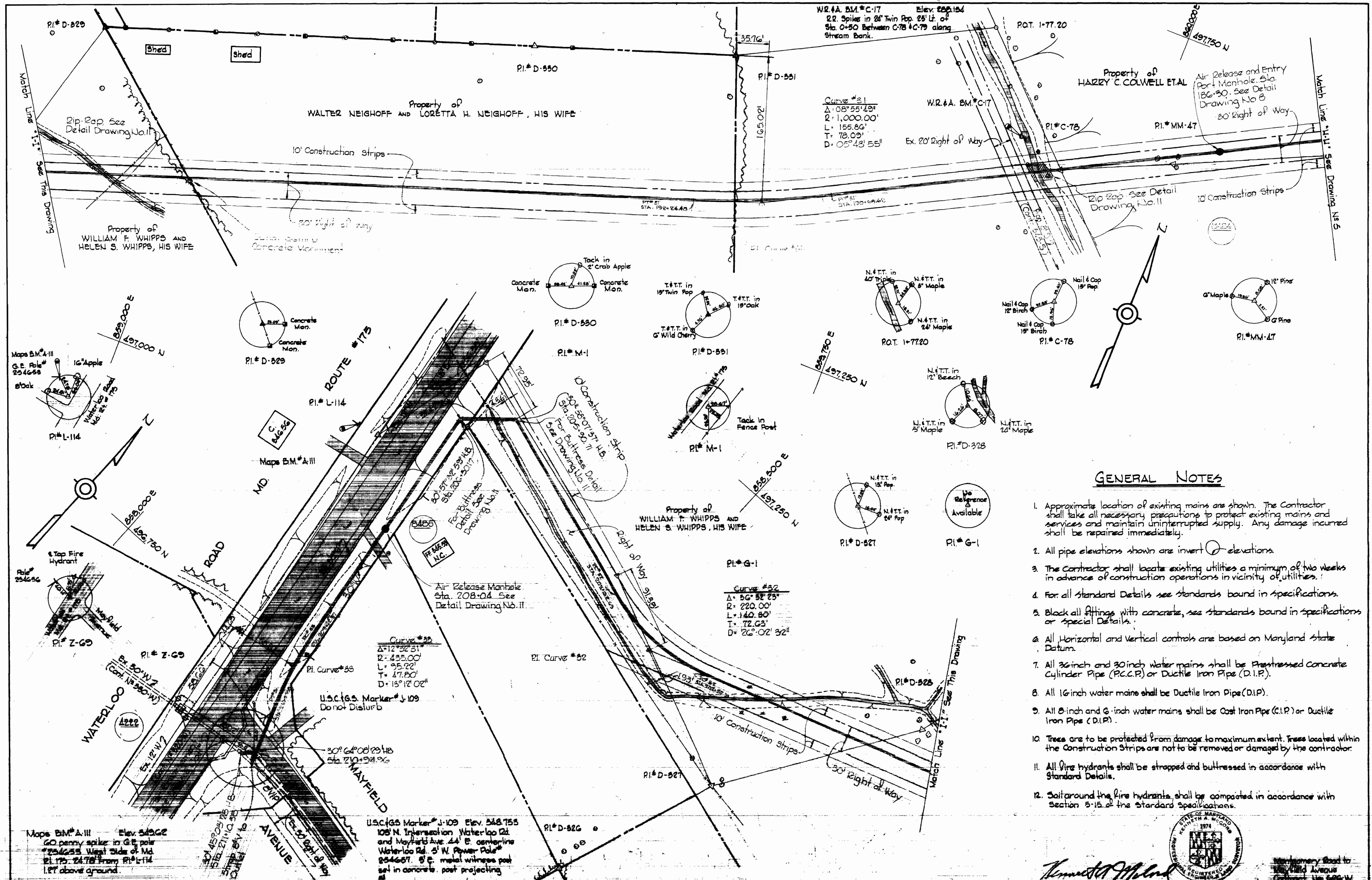
ELECTION DISTRICT  
ELKRIDGE NO. 1

DRAWING  
NO. 5  
OF 11  
SCALE  
1" = 50'

December 4, 1975  
75-5942 5508 8548  
JES BURT

W. O. G25T-2





**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. Black all fittings with concrete, see standards bound in specifications or special Details.
6. All horizontal and vertical controls are based on Maryland State Datum.
7. All 36 inch and 30 inch water mains shall be Prestressed Concrete Cylinder Pipe (P.C.C.P.) or Ductile Iron Pipe (D.I.P.).
8. All 16 inch water mains shall be Ductile Iron Pipe (D.I.P.).
9. All 8 inch and 6 inch water mains shall be Cast Iron Pipe (C.I.P.) or Ductile Iron Pipe (D.I.P.).
10. Trees are to be protected from damage to maximum extent. Trees located within the Construction Strips are not to be removed or damaged by the contractor.
11. All fire hydrants shall be strapped and buttressed in accordance with Standard Details.
12. Soil around the fire hydrants shall be compacted in accordance with Section 5-15 of the Standard Specifications.



*Handwritten signature of the engineer.*

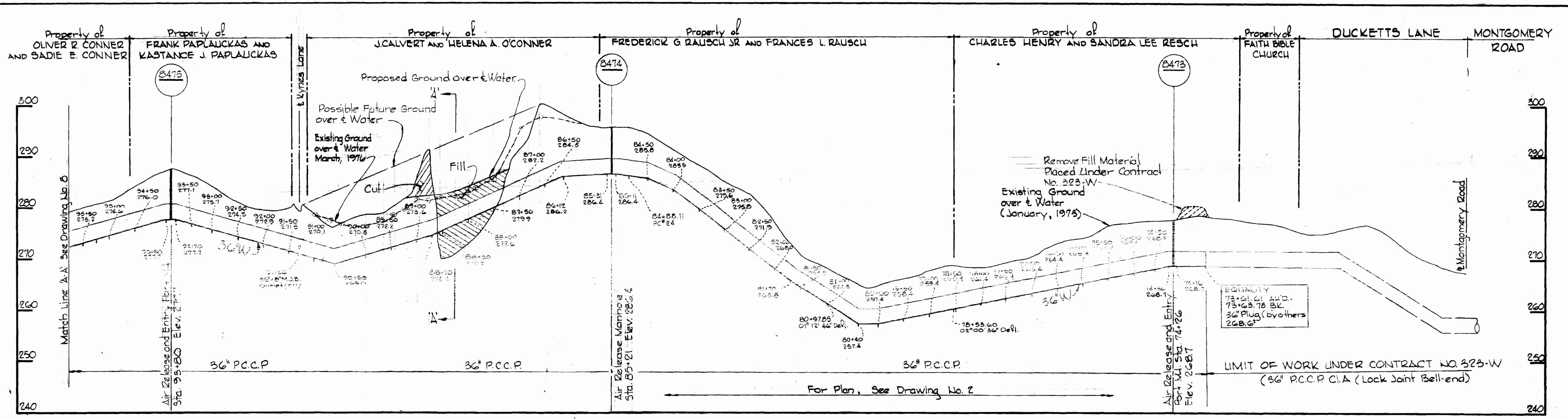
<p><b>WHITMAN, REQUARDT &amp; ASSOCIATES</b> ENGINEERS 1304 ST. PAUL ST. BALTIMORE, MARYLAND</p>	<p><b>DEPARTMENT OF PUBLIC WORKS</b> HOWARD COUNTY, MARYLAND</p> <p>4-22-75 <i>W.O. Pallet</i> DATE CHIEF BUREAU OF ENGINEERS</p>	<p>CONTRACT NO. 626-W</p>	<p>PLAN OF WATER MAINS</p>	<p>ELECTION DISTRICT ELKRIDGE NO. 1</p>	<p>DRAWING NO. 6 OF 11 SCALE 1" = 50'</p>
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W. O. 6297-2

December 6, 1975  
AS BUILT

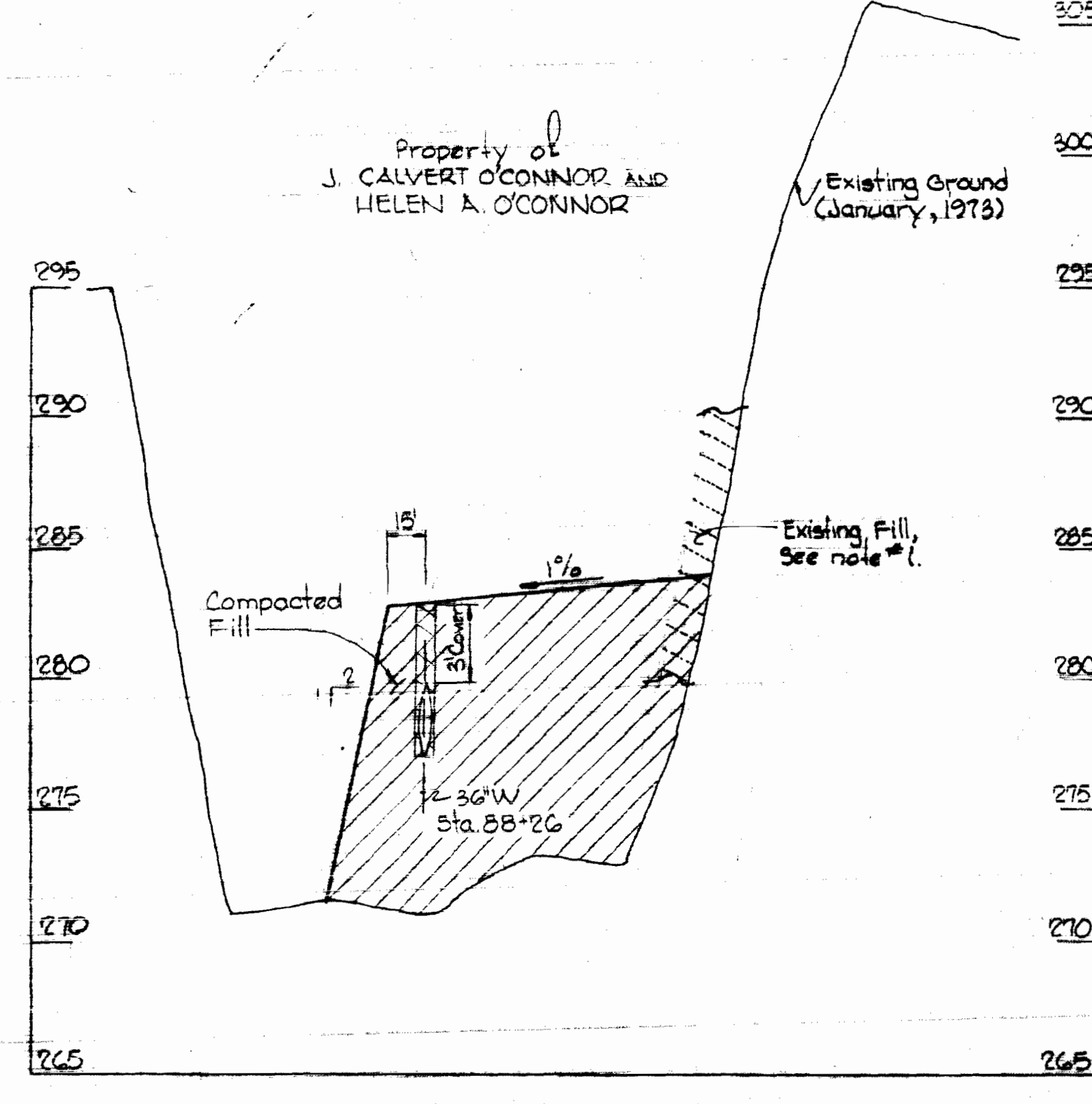
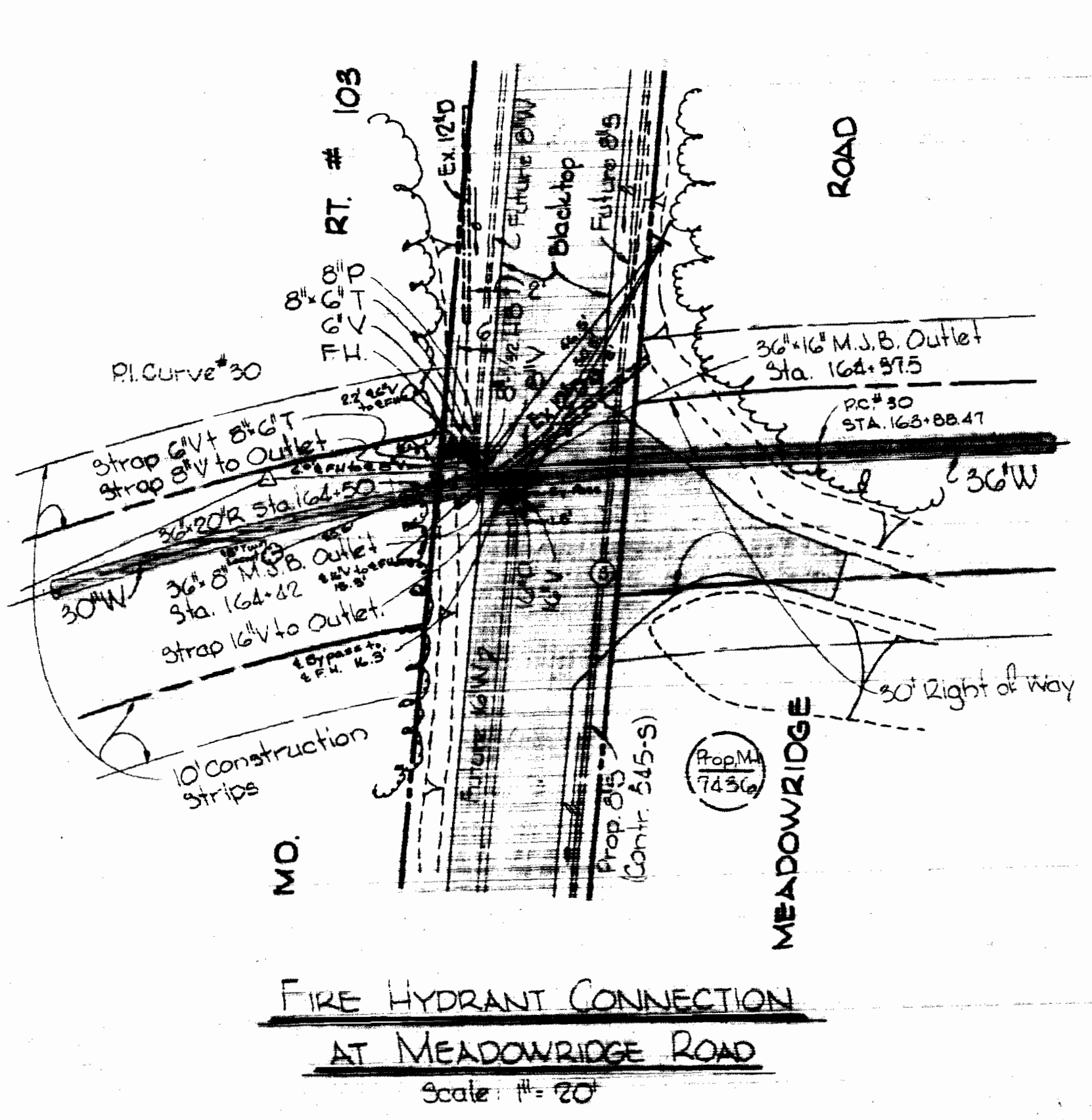
WS 626-W/6



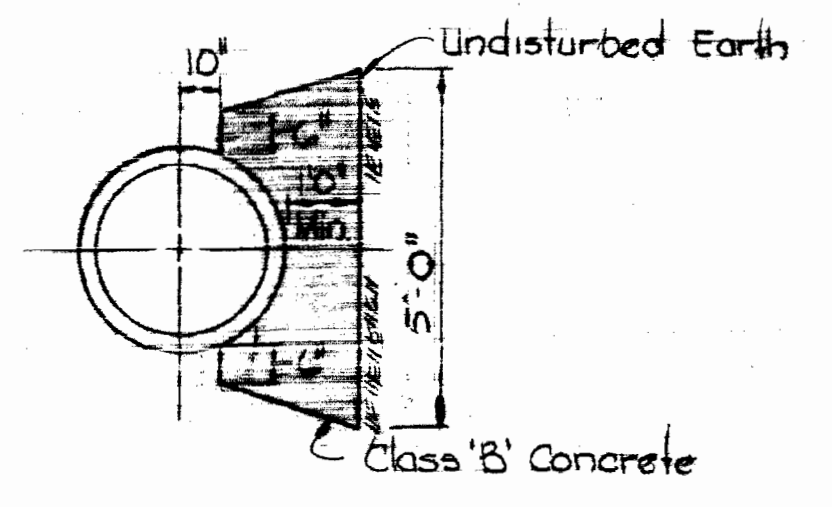
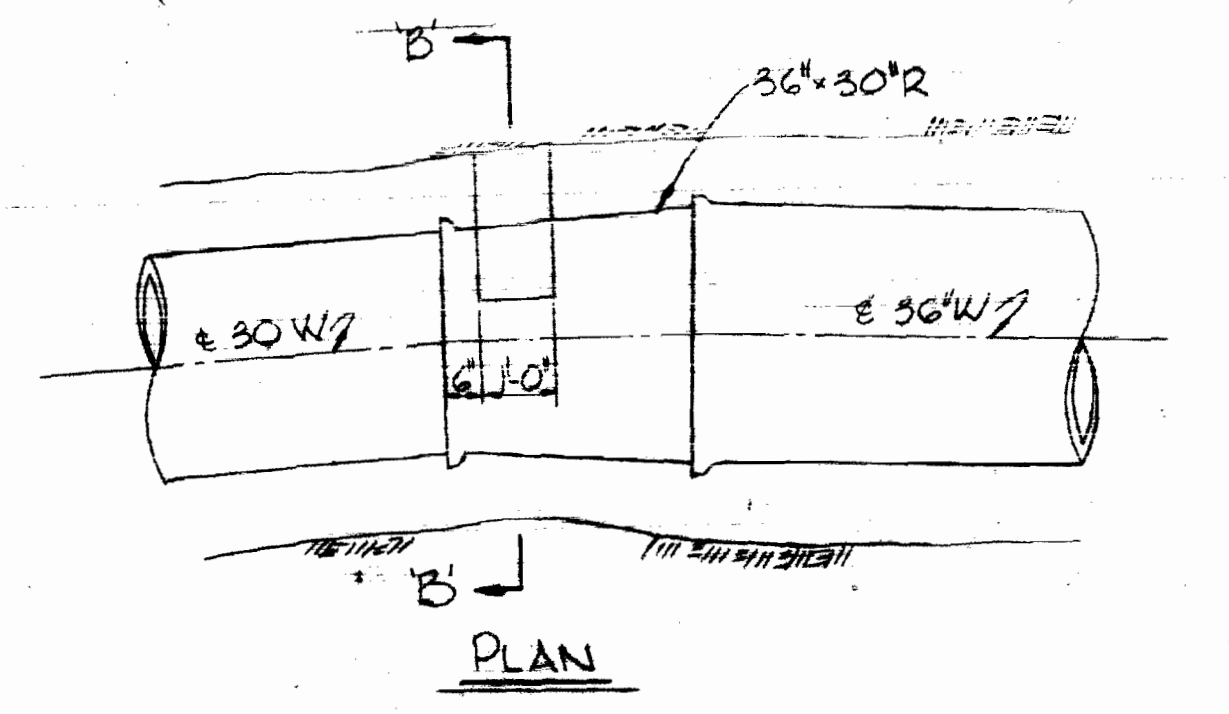


Note:  
See "As Built" X-sections  
Through Fill Area.

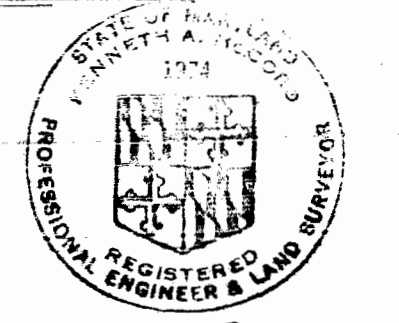
**PROFILE**  
Scale: Horizontal 1"=100'  
Vertical 1"=10'



- Notes:
1. Some fill has been dumped in this area by property owner. This fill shall remain unless it is located within 30 feet of 36" W in which case it shall be removed and disposed of in the quarry area at a location selected by the property owner. Payment for moving such material will be made as Extra Work.
  2. Sod all slopes steeper than 4:1, Seed all other areas.
  3. Contractor shall obtain a permit from Howard County Soil Conservation District prior to placing any fill.
  4. Compacted Fill shall be brought to finished grade prior to excavation for pipe trench.



**SECTION 'B-B'**  
**BLOCKING AT 36" x 30" REDUCER**  
Scale: 1/8" = 1'-0"



Thomas A. Walden  
Montgomery Road to  
Mayfield Avenue  
Contract No. 626-W

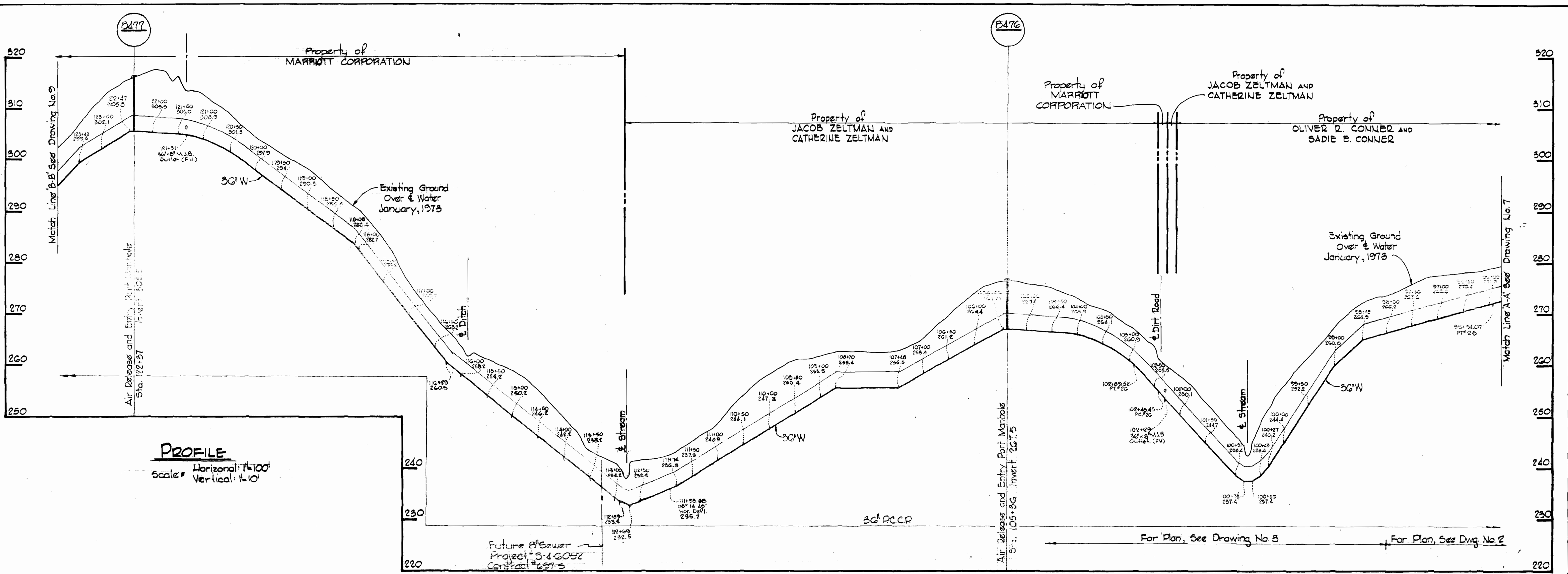
<b>WHITMAN, REQUARDT &amp; ASSOCIATES</b> ENGINEERS 1304 ST. PAUL ST. BALTIMORE, MARYLAND	<b>DEPARTMENT OF PUBLIC WORKS</b> HOWARD COUNTY, MARYLAND 4-21-75 DATE W. O. P. Walden CHIEF BUREAU OF ENGINEERING	<b>CONTRACT NO. 626-W</b>	<b>PLAN, PROFILE AND DETAIL</b> OF WATER MAINS	<b>ELECTION DISTRICT</b> ELKRIDGE NO. 1	<b>DRAWING</b> NO. 7 OF 11 <b>SCALE</b> AS SHOWN
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W. O. 6257-2

December 6, 1976 AS BUILT

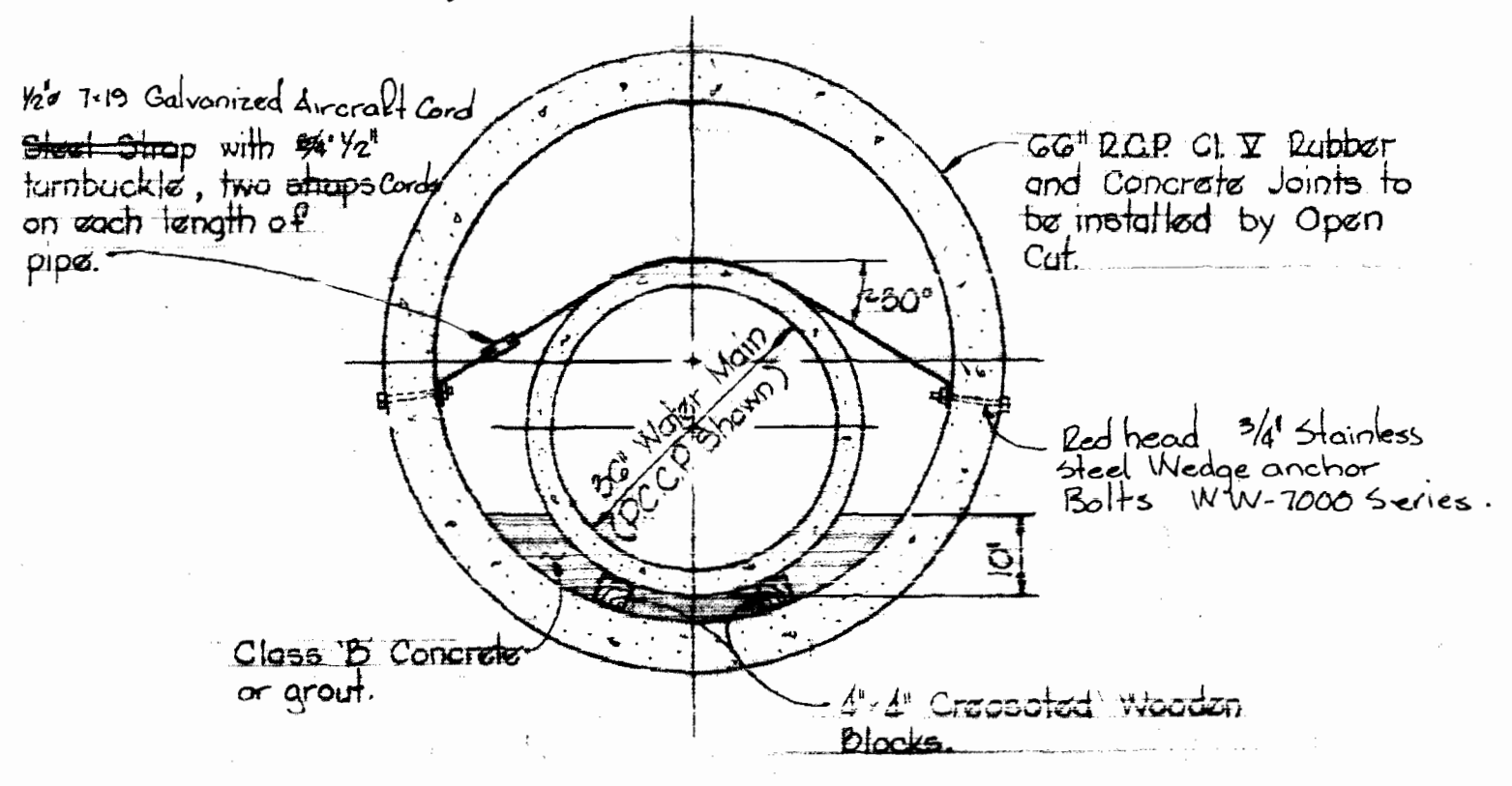
WS 626-W/7



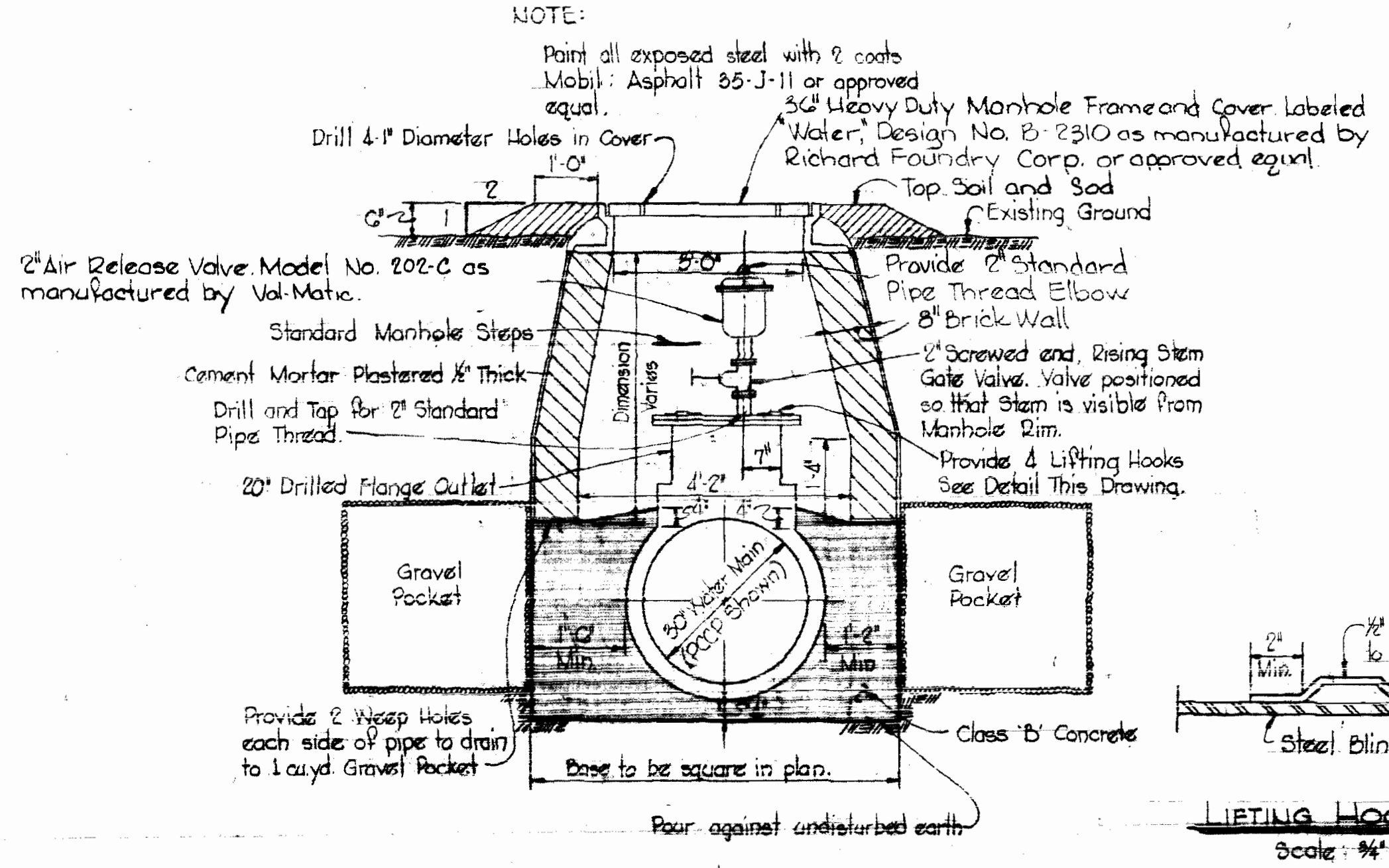


**PROFILE**  
 Scale: Horizontal: 1"=100'  
 Vertical: 1"=10'

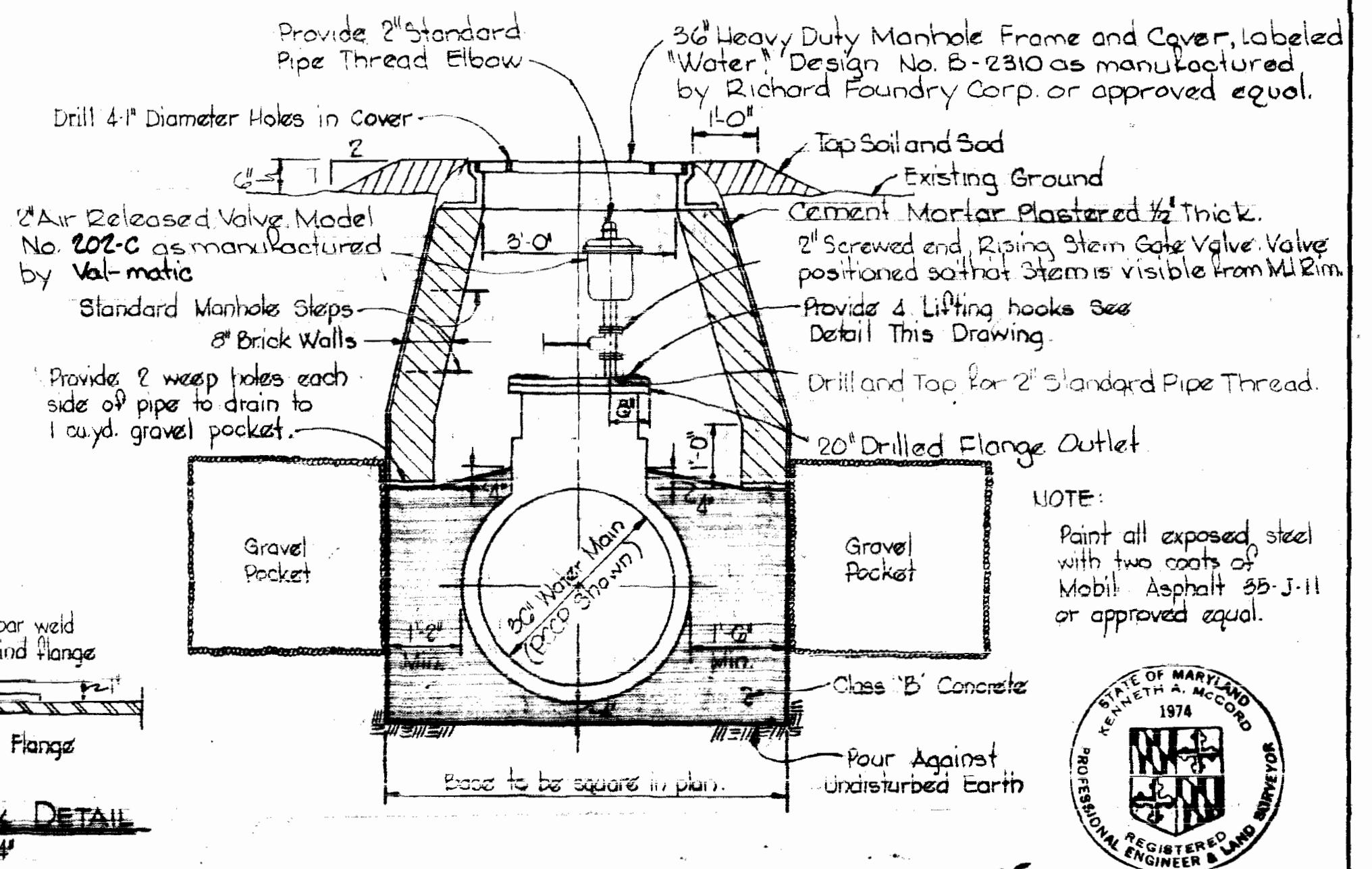
- NOTES:**
1. A joint shall be provided in the water main within 12 inches of each end of 66-inch casing.
  2. Paint all exposed steel with 2 coats of Mobil Asphalt 85-J-11 or approved equal.
  3. Provide 12-inch brick bulkhead at each end of casing. Provide drain pipes through bulkhead on each side of water main at low end of casing (2-2").



**CASING DETAIL**  
 Scale: 1/2"=1'-0"



**DETAILS OF AIR RELEASE AND ENTRY PORT MANHOLES**  
 Scale: 1/2"=1'-0"



*Handwritten signature*

Montgomery Road to  
 Mayfield Avenue  
 Contract No. 626-W

<b>WHITMAN, REQUARDT &amp; ASSOCIATES</b> ENGINEERS 1304 ST. PAUL ST. BALTIMORE, MARYLAND	<b>DEPARTMENT OF PUBLIC WORKS</b> HOWARD COUNTY, MARYLAND 4-21-75 <i>W. O. Galt</i> CHIEF-BUREAU OF ENGINEERING	<b>CONTRACT NO. 626-W</b>	<b>PROFILES AND DETAILS</b> <b>OF WATER MAINS</b>	<b>ELECTION DISTRICT</b> <b>ELKRIDGE NO. 1</b>	<b>DRAWING</b> <b>NO. 8</b> <b>OF 11</b> <b>SCALE</b> <b>AS</b> <b>SHOWN</b>
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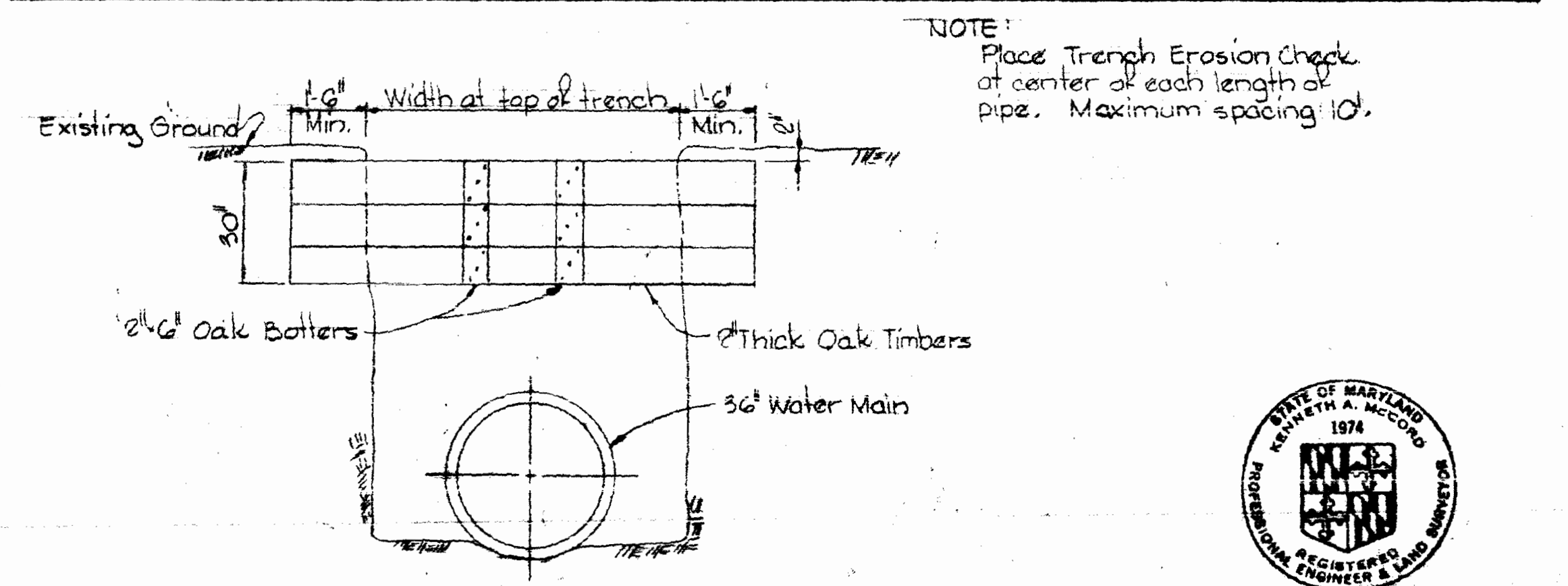
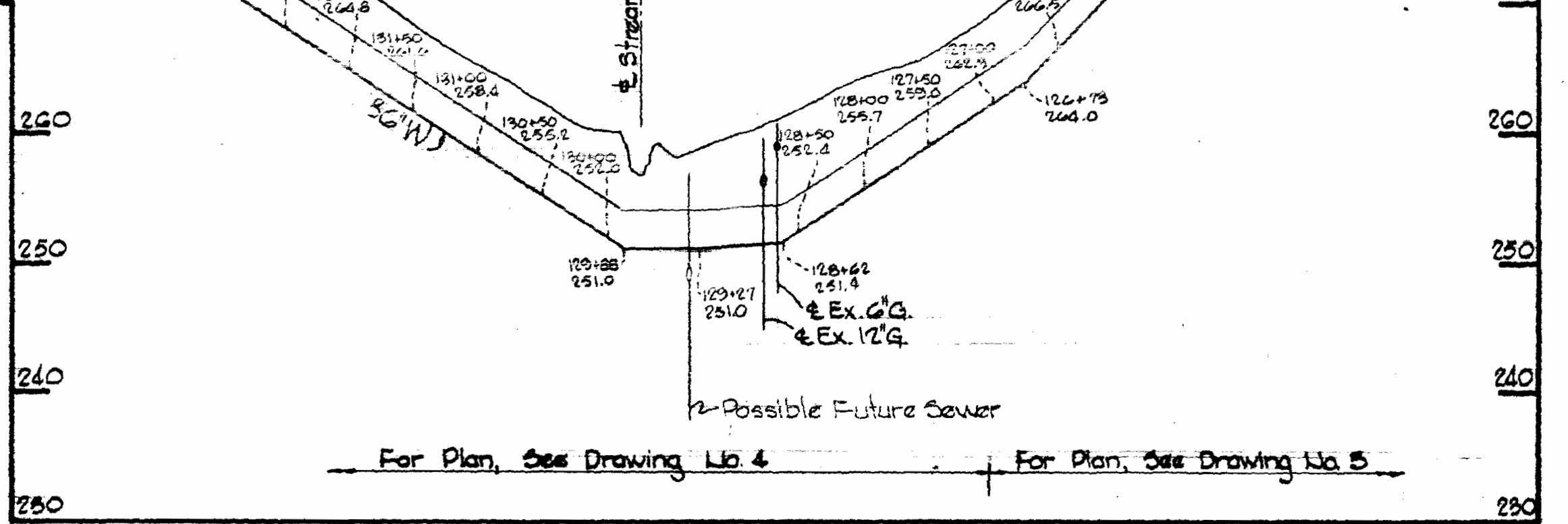
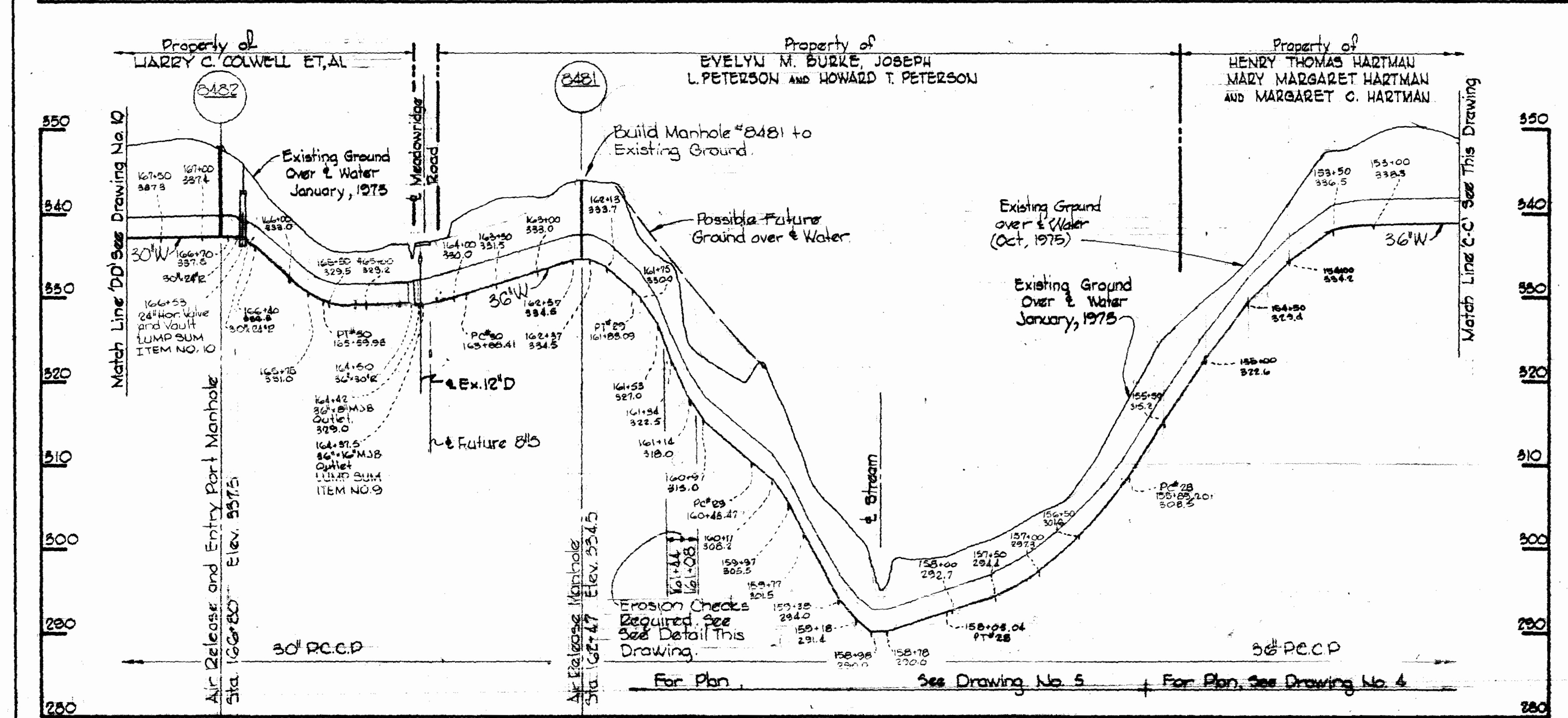
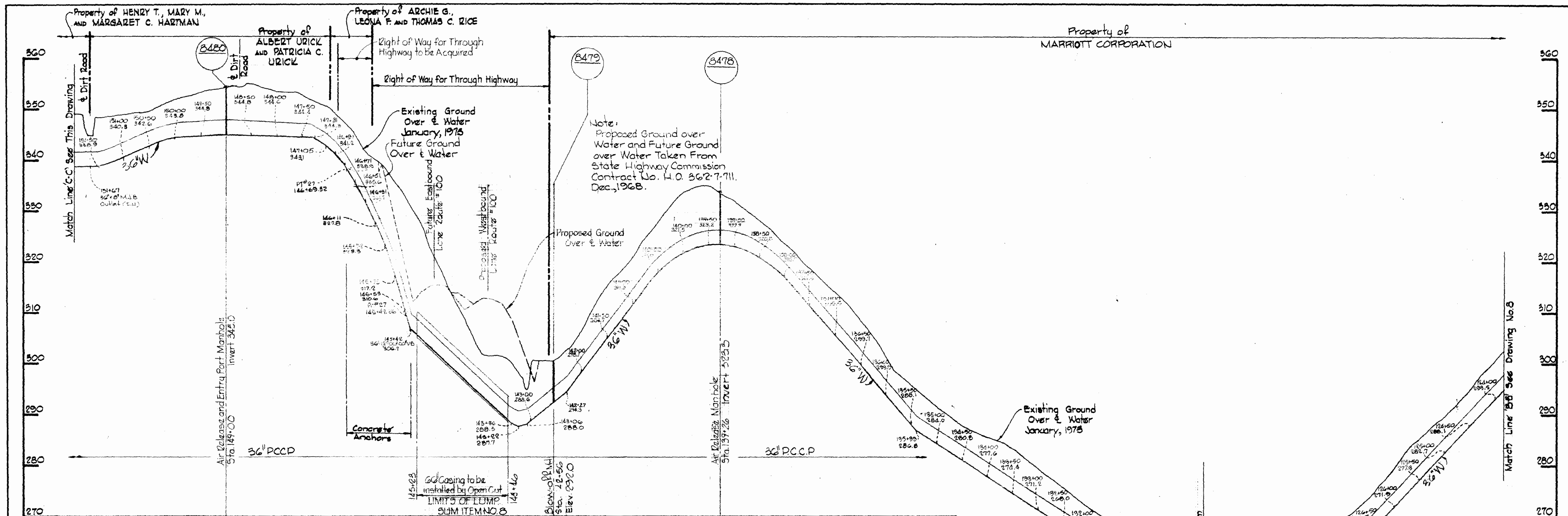
W. O. G257-2

December 6, 1976 AS BUILT

WS G26-W/8

BRUNING 44-510 18392





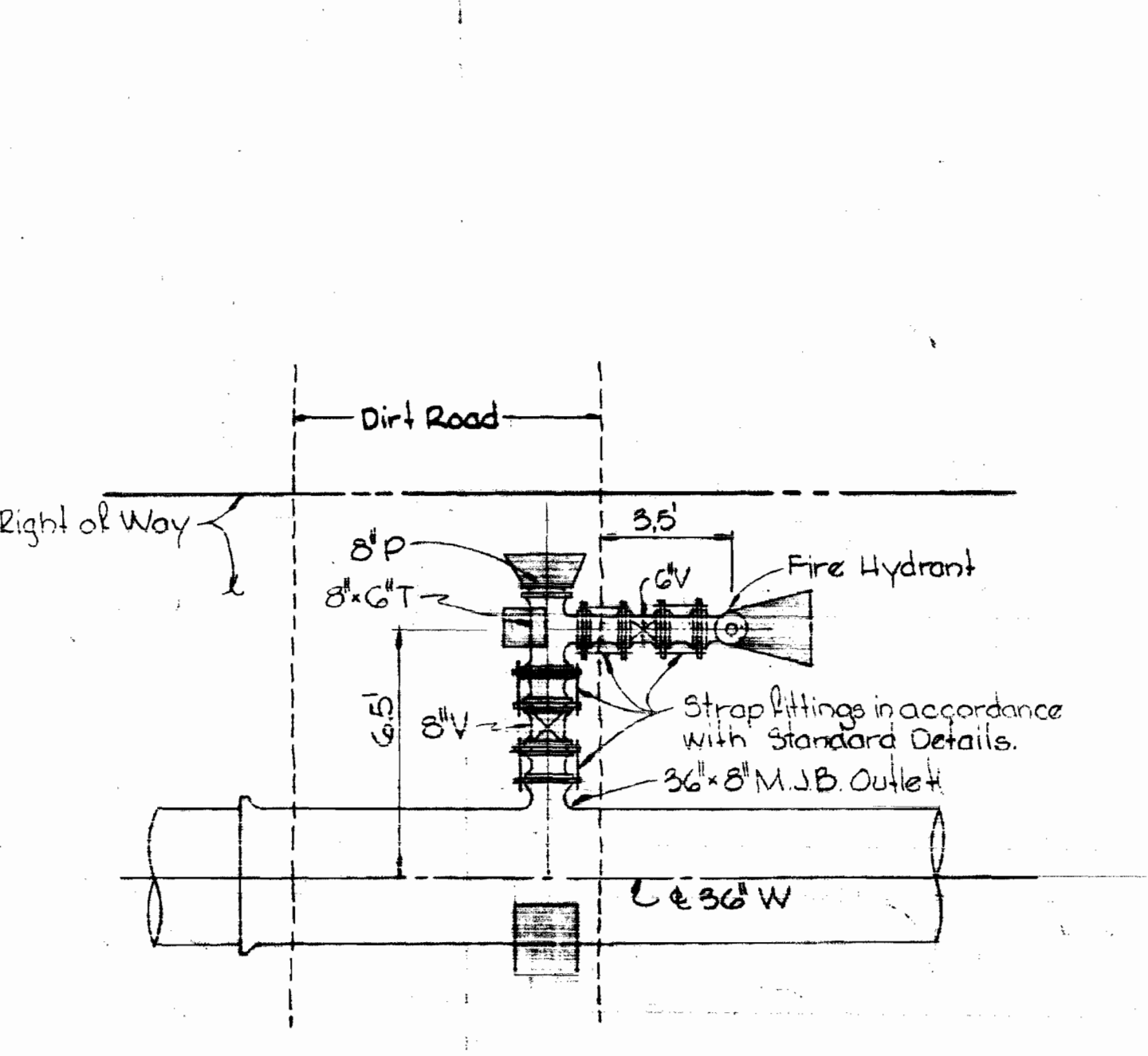
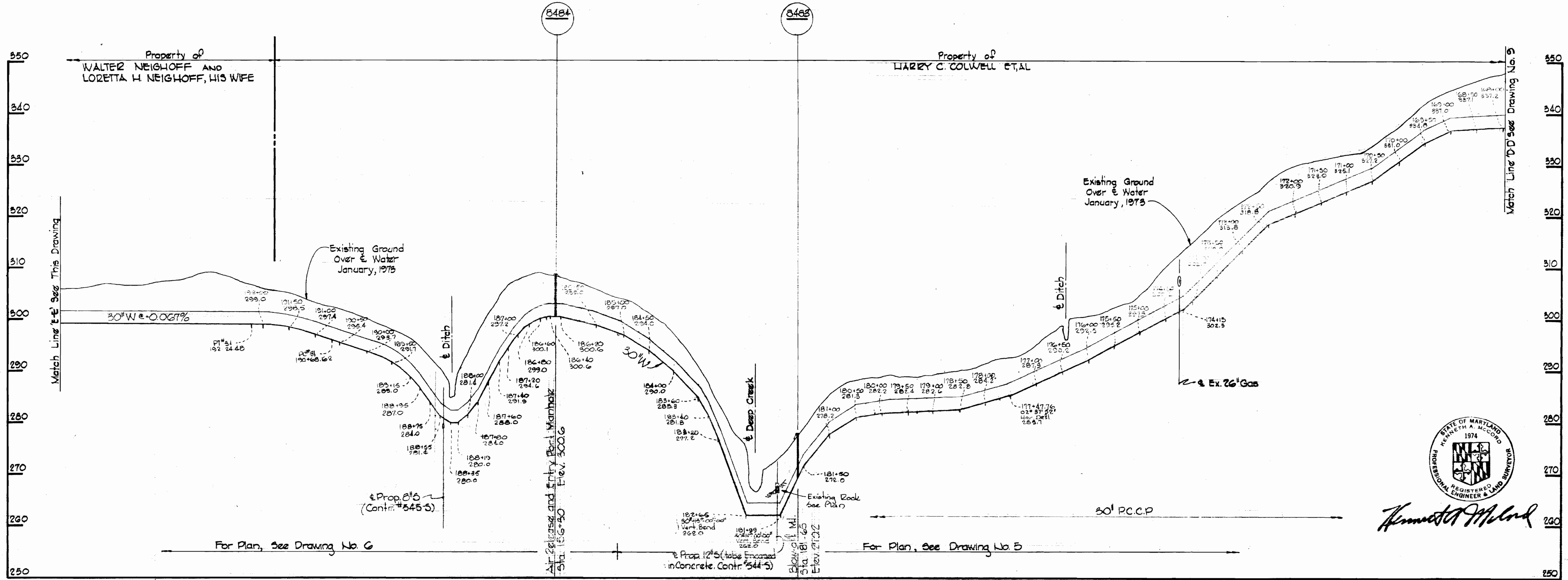
PROFILES  
 Scale: Horizontal - 1" = 100'  
 Vertical - 1" = 100'

WHITMAN, REQUARDT & ASSOCIATES ENGINEERS 1304 ST. PAUL ST. BALTIMORE, MARYLAND	DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND 4-21-75 DATE	CONTRACT NO. 626-W W. O. P. / Chief Bureau of Engineering	PROFILES AND DETAIL OF WATER MAINS	ELECTION DISTRICT ELKBRIDGE NO. 1	DRAWING NO. 9 OF 11 SCALE AS SHOWN
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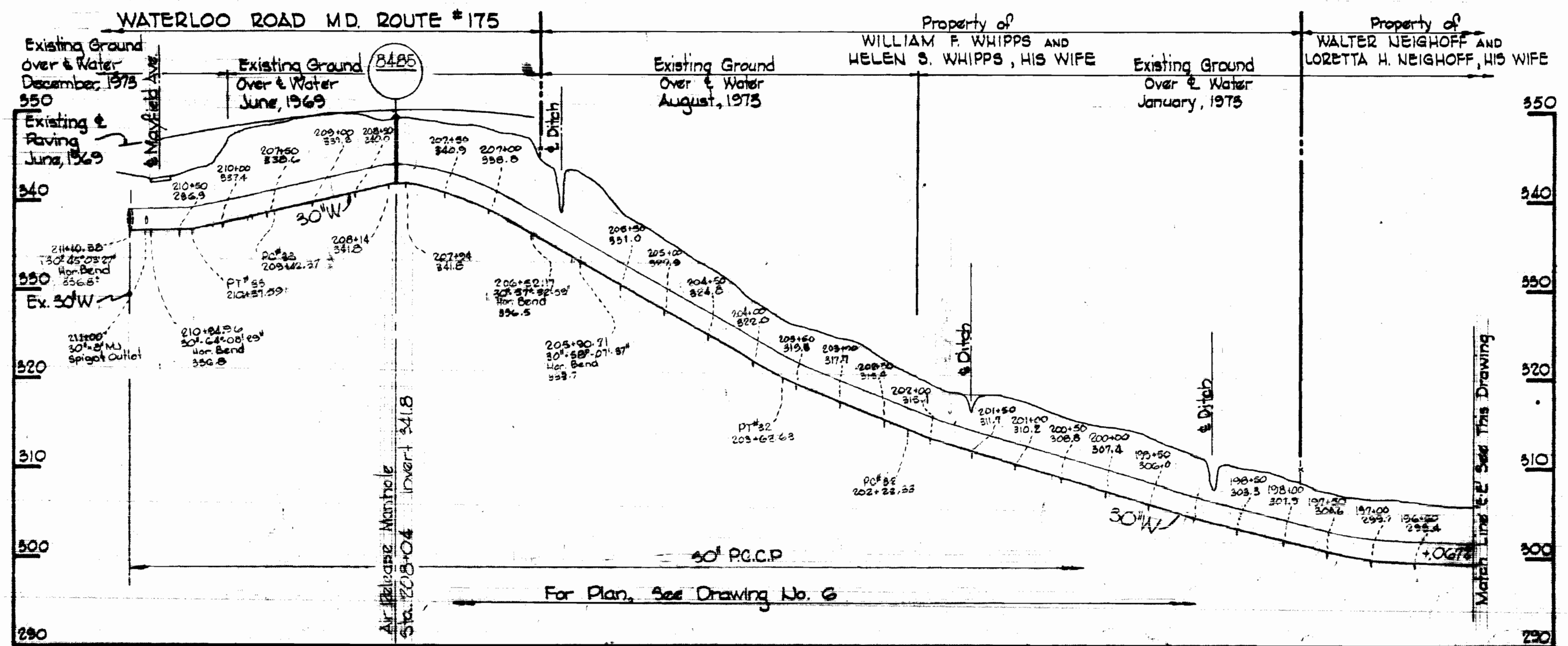
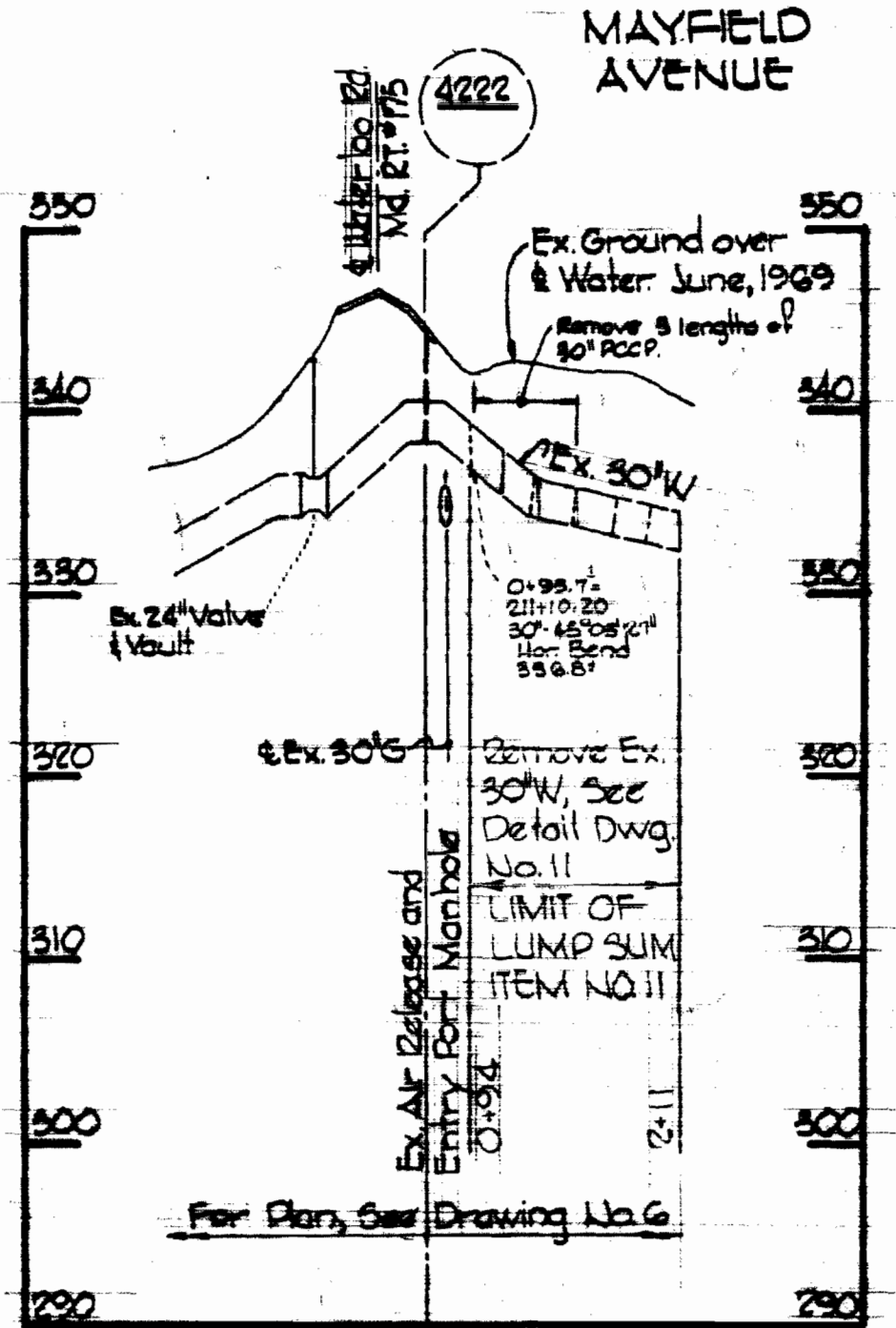
W. O. 6251-2

December 6, 1976





TYPICAL FIRE HYDRANT SETTING AT STAS 91+30, 102+29, 121+31 AND 151+67 Scale: 1/4" = 1'-0"



PROFILES Horizontal: 1"=100' Vertical: 1"=10'

Montgomery Road to Mayfield Avenue Contract No. 626-W

WHITMAN, REQUARDT & ASSOCIATES ENGINEERS 1304 ST. PAUL ST. BALTIMORE, MARYLAND	DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND DATE 4-21-75 W.O. Palmet CHIEF BUREAU OF ENGINEERING	CONTRACT NO. 626-W	PROFILES AND DETAIL OF WATER MAINS	ELECTION DISTRICT ELKRIDGE NO. 1	DRAWING NO. 10 OF 11 SCALE AS SHOWN
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W. O. G257-2

December 4, 1974 AS BUILT

WS 626-W/10

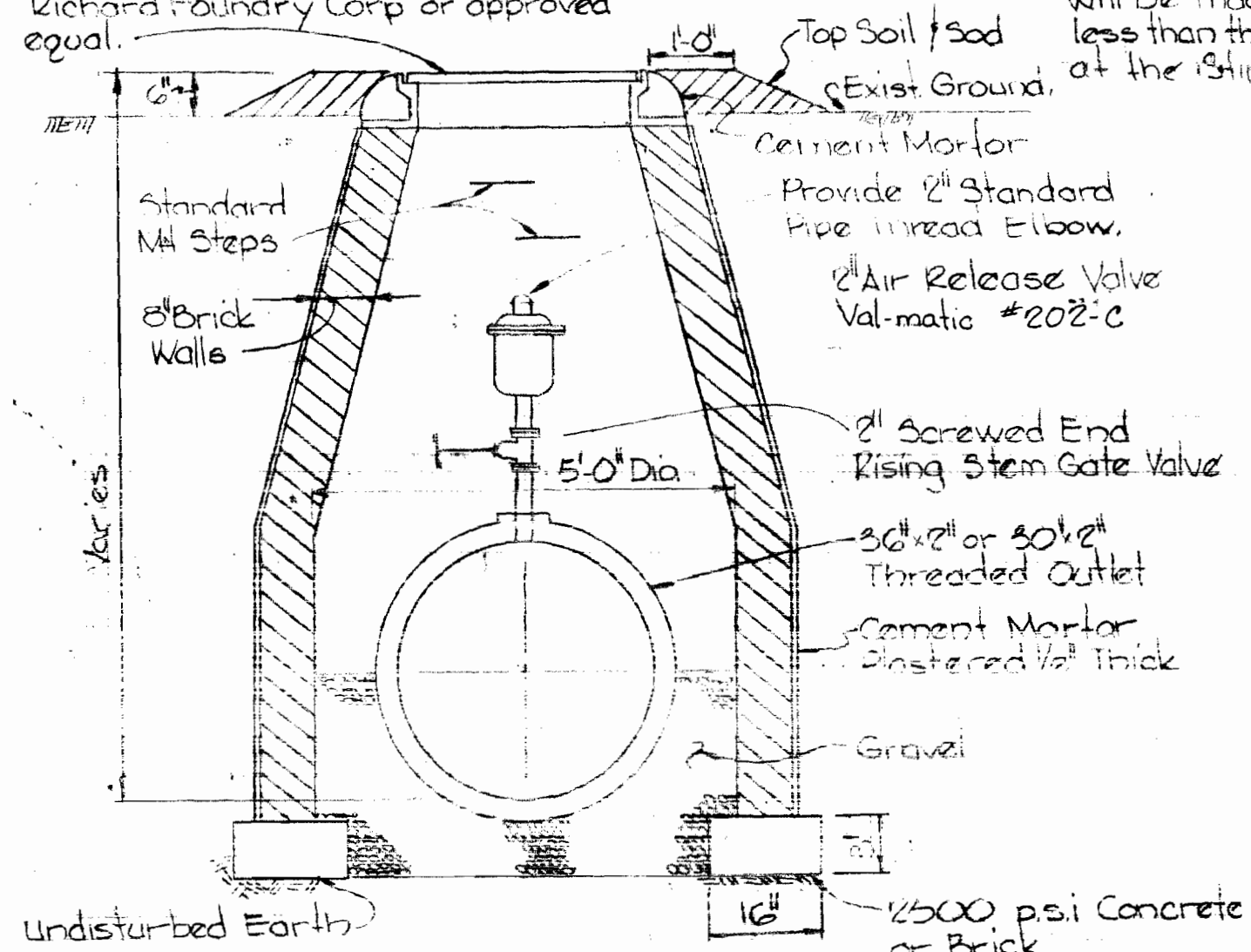
PRINTING 44-510 1832E



30" Heavy Duty Manhole Frame and Cover, labeled "Water" Design No. B-2180 as manufactured by Richard Foundry Corp or approved equal.

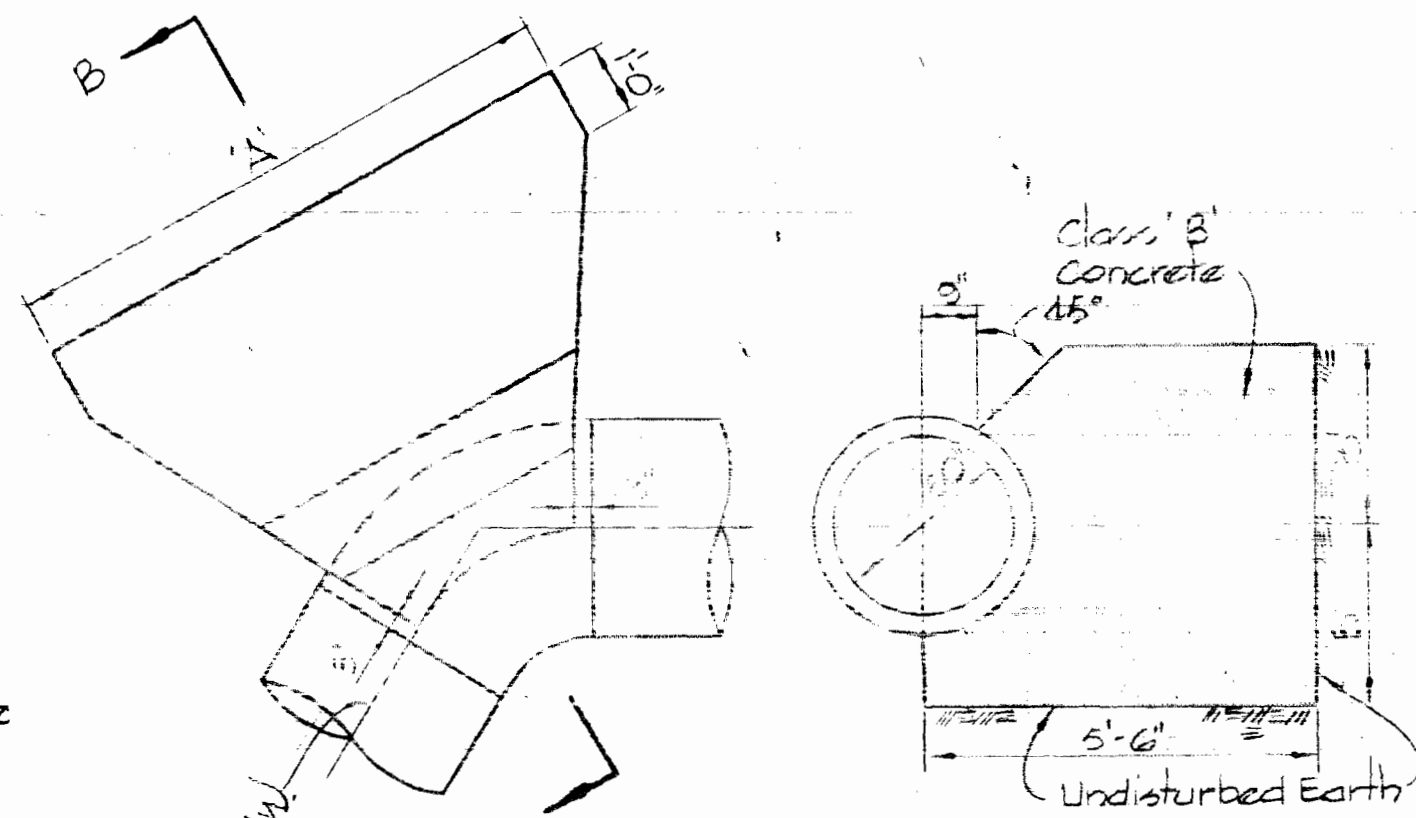
**NOTE FOR BUTTRESSES**  
 Design Soil Bearing Capacity = 3,000 psf.  
 An increase in the size of any buttress will be made if the Soil Bearing Capacity is less than the design with payment therefor at the stipulated price for class B concrete.

Bend	A	B
45°	6'-6"	2'-6"
58°	8'-0"	2'-6"
64°	9'-0"	2'-6"



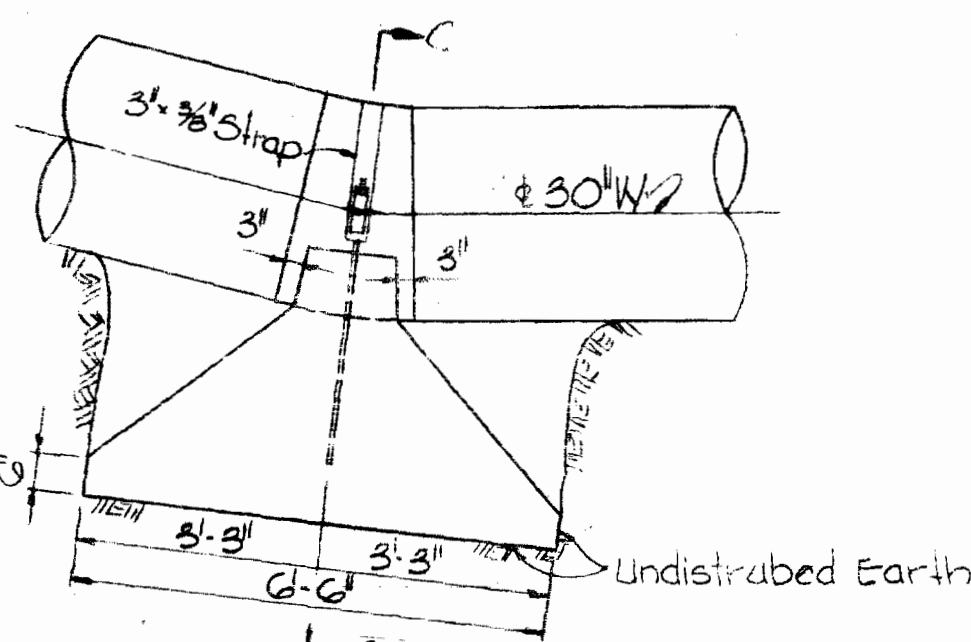
**AIR RELEASE MANHOLE**  
 Scale: 1/2" = 1'-0"

- Notes:  
 1. 2" Gate Valve for Air Release Manhole shall be designed for an operating pressure of 250 psi.  
 2. Paint all exposed steel with 2 coats of Mobil Asphalt 353-11 Paint or approved equal.

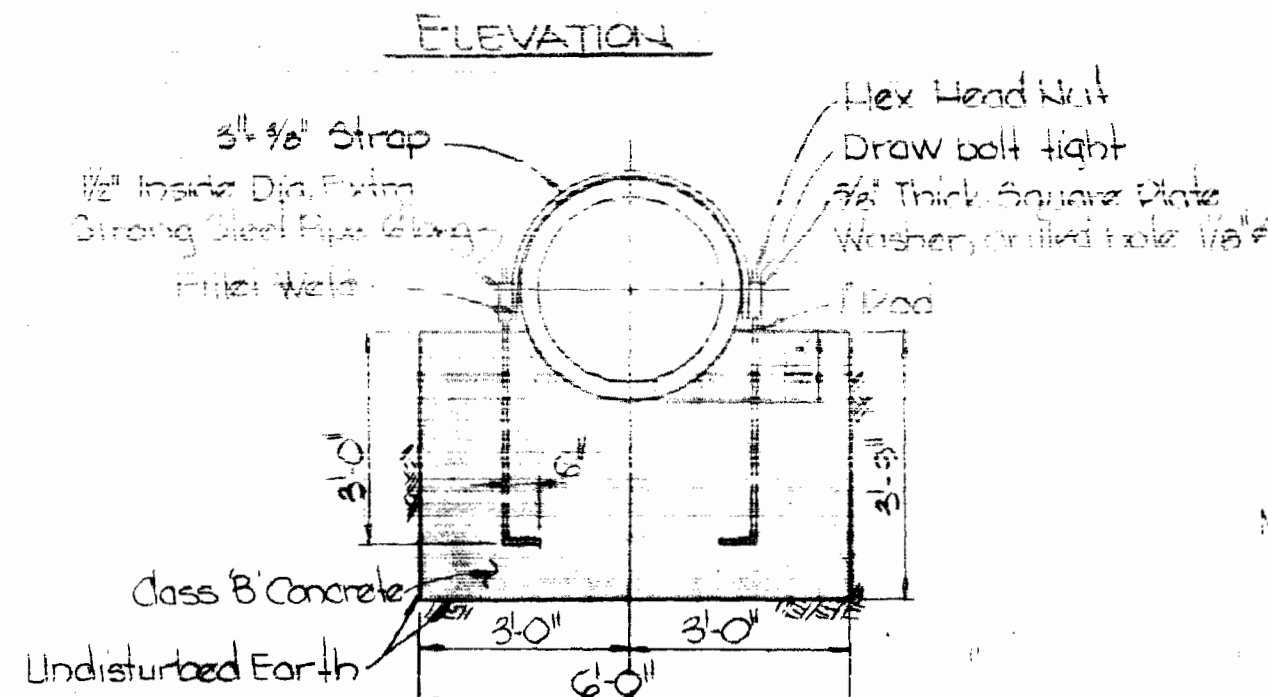


**HORIZONTAL BUTTRESS**  
 Scale: 3/8" = 1'-0"

- Notes:  
 1. The Existing 30" Prestressed Concrete Pipe - 16 foot lengths - 1/4" Bevels which are to be removed shall be reused in Curve #23. The 2 1/2" Bevel shall be reused at curve #32 - 5 lengths removed, not used in contract.  
 2. Provide timber blocking for the Existing 24" Horizontal Valve within the Valve Vault prior to removal of Pipe. For Detail See This Drawing.

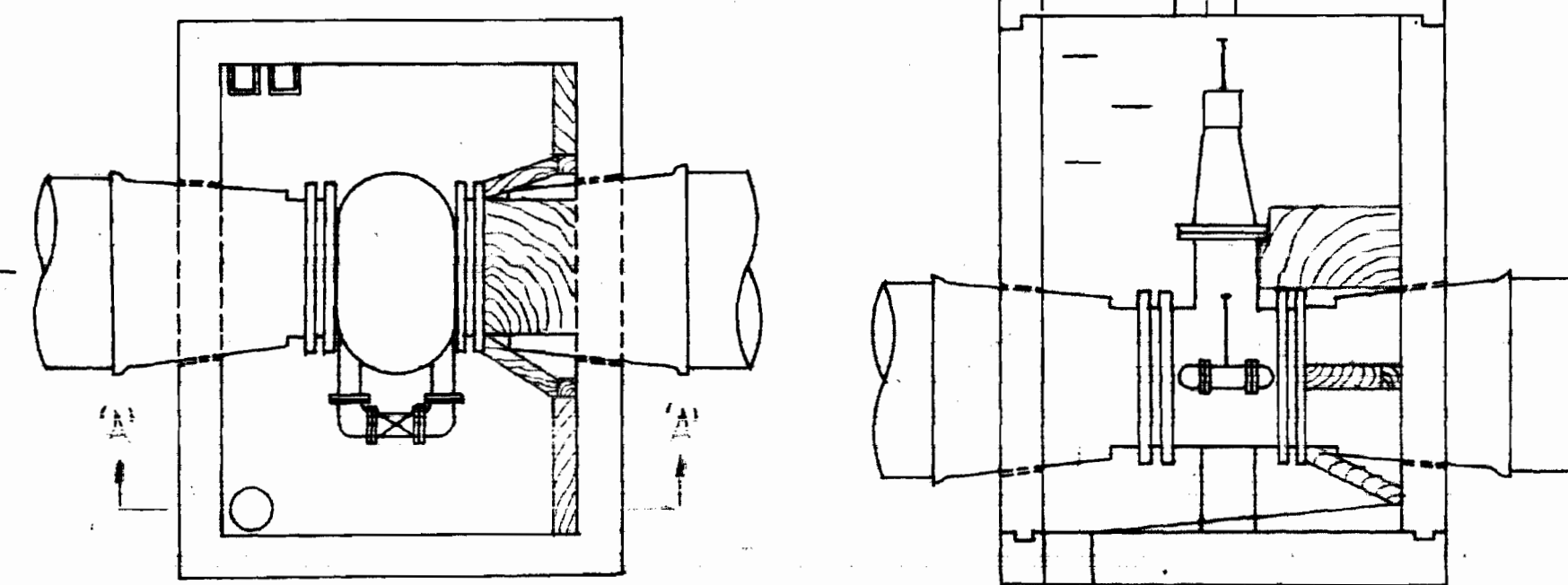


Note:  
 Paint all exposed steel with 2 coats of Mobil Asphalt 353-11 Paint or approved equal.



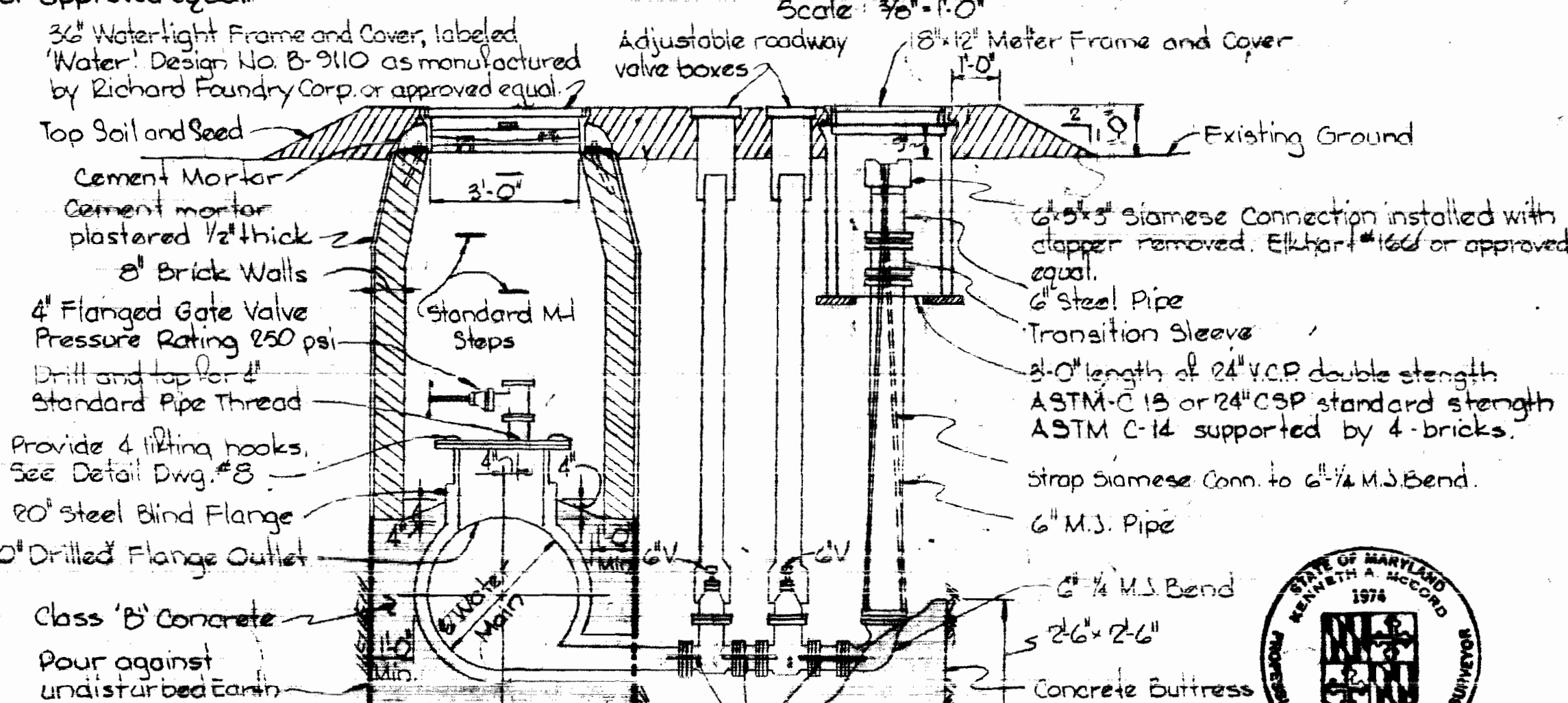
**DETAIL OF VERTICAL BUTTRESS**  
 Scale: 3/8" = 1'-0"

- Notes:  
 1. Provide timber blocking Existing Valve as shown.  
 2. All timber shall be a minimum of 4" thick.  
 3. Remove blocking after connection is complete.

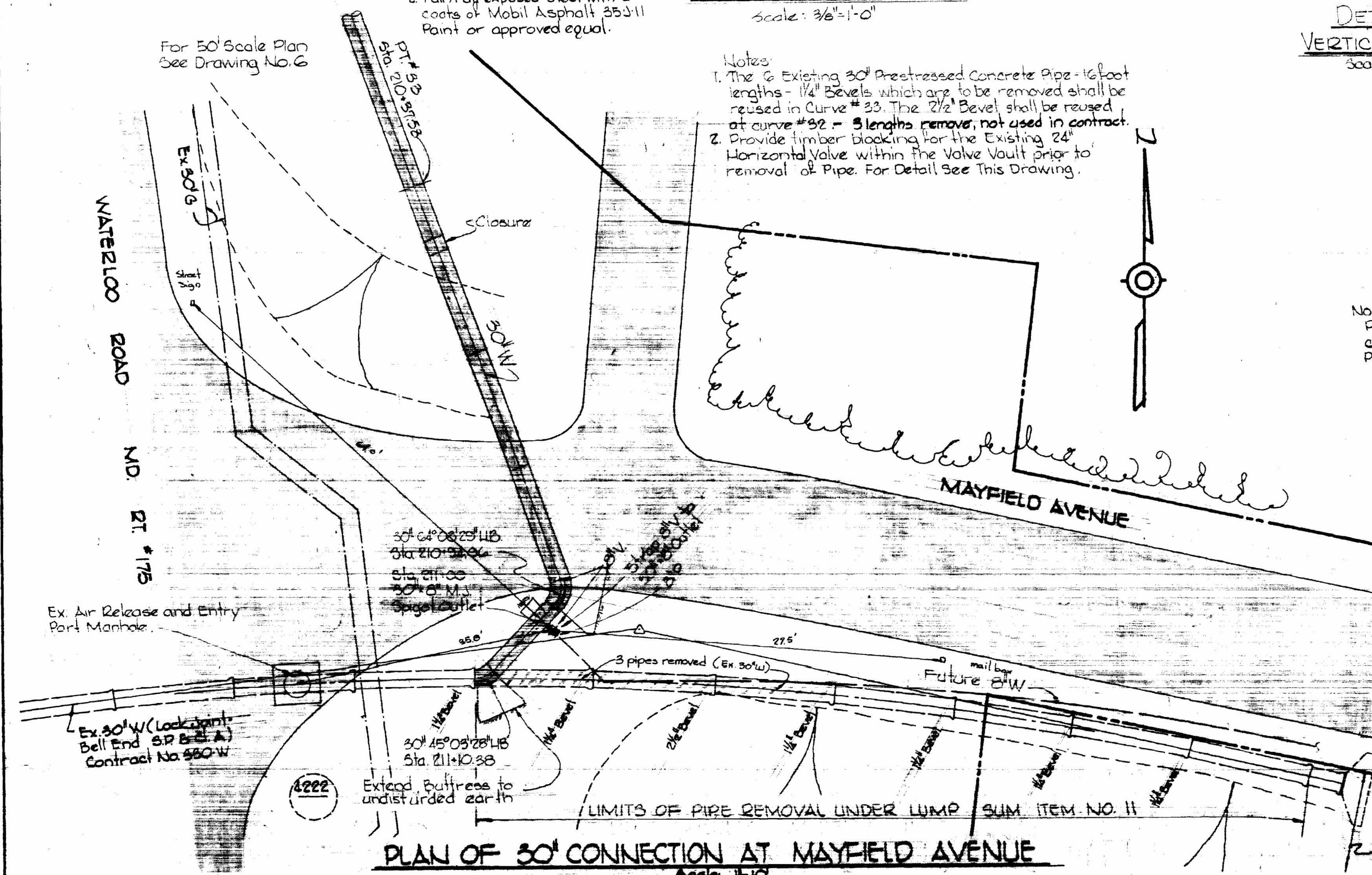


**EXISTING 24" VALVE VAULT AT MAYFIELD AVENUE**  
 Scale: 3/8" = 1'-0"

Note:  
 Paint all exposed steel with 2 coats of Mobil Asphalt 353-11 Paint or approved equal.



**BLOW-OFF DETAIL**  
 Scale: 1/2" = 1'-0"



**PLAN OF 30" CONNECTION AT MAYFIELD AVENUE**  
 Scale: 1" = 1'-0"

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

DEPARTMENT OF PUBLIC WORKS  
 HOWARD COUNTY, MARYLAND  
 4-21-75  
 DATE

CONTRACT NO. 626-W

PLAN AND DETAILS  
 OF WATER MAINS

ELECTION DISTRICT  
 ELKRIDGE NO. 1

DRAWING  
 NO. II  
 OF II

SCALE  
 AS  
 SHOWN

December 4, 1974 AS BUILT



Montgomery Road to  
 Mayfield Avenue  
 Contract No. 626-W

WS 626-W/11

ENGINEERING 44-510 1032E

W. O. 6267-2