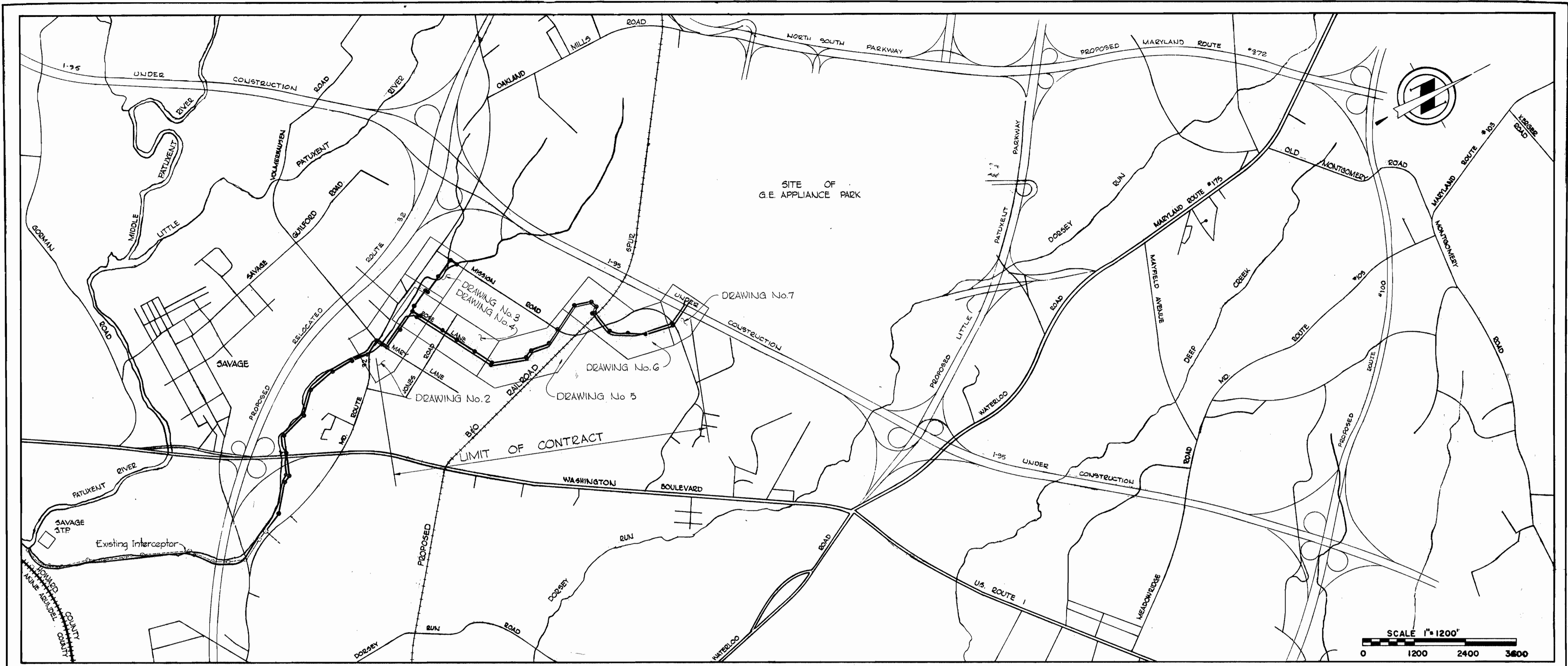


SUSPENSE

SUSPENSE



CONTRACT 322-S
GUILFORD INTERCEPTOR SECTION 3
AND
GENERAL ELECTRIC INDUSTRIAL WASTE LINE
SECTION 3
HOWARD COUNTY, MARYLAND
DEPARTMENT OF PUBLIC WORKS



Kenneth A. McCord

Diary FB# 4775, 4860
Sketchout FB# 4793

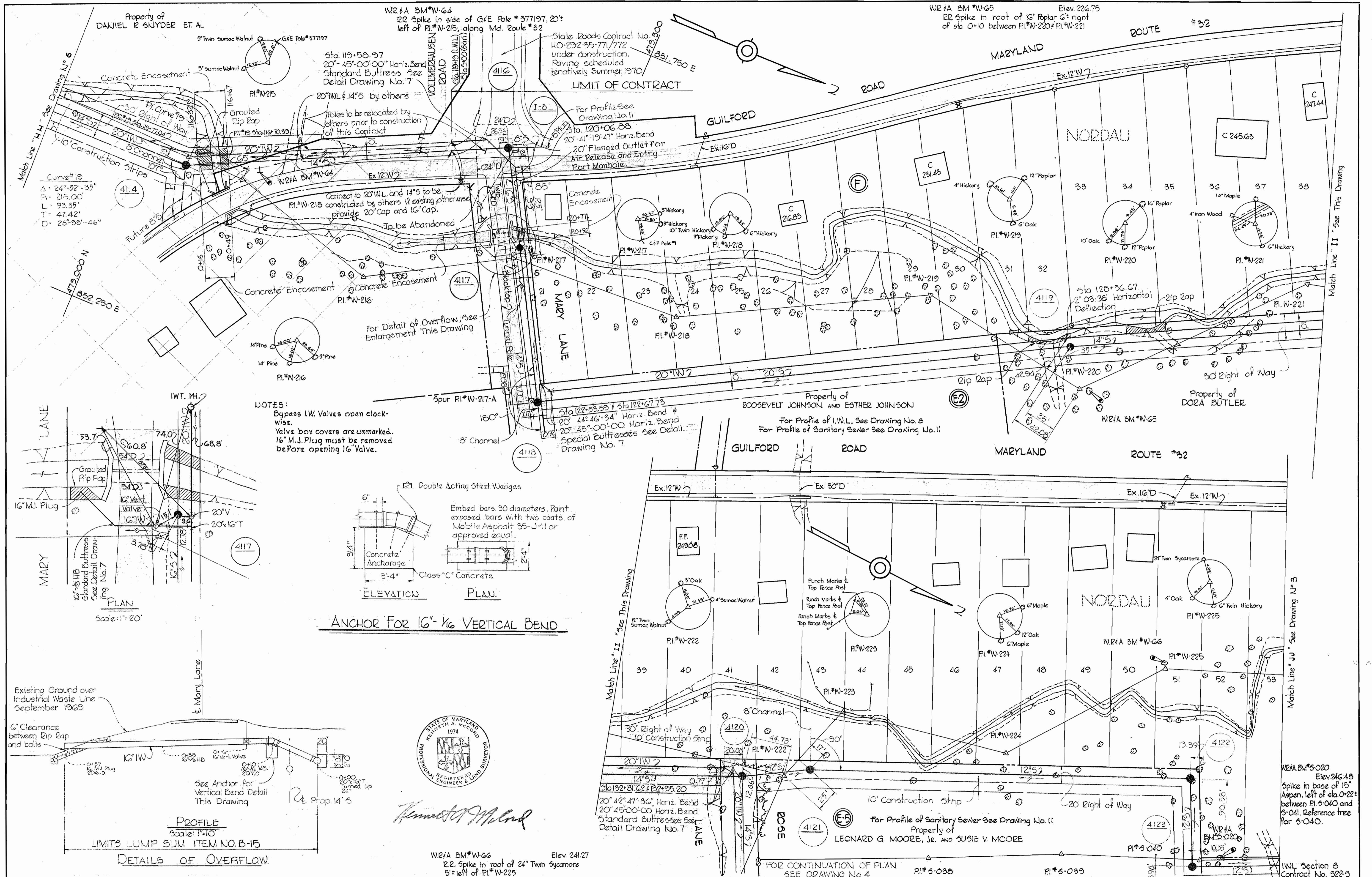
Contract No. 322-S

WHITMAN, REQUARDT & ASSOCIATES ENGINEERS 1304 ST. PAUL ST. BALTIMORE, MARYLAND	HOWARD COUNTY METROPOLITAN COMMISSION DATE: 3-11-70 <i>W.O. Fallick</i> <small>CHIEF ENGINEER</small>	CONTRACT NO. 322-S	LOCATION MAP	GUILFORD INTERCEPTOR SECTION 3 GENERAL ELECTRIC INDUSTRIAL WASTE LINE SECTION 3	DRAWING NO. 1 OF 13 SCALE AS SHOWN
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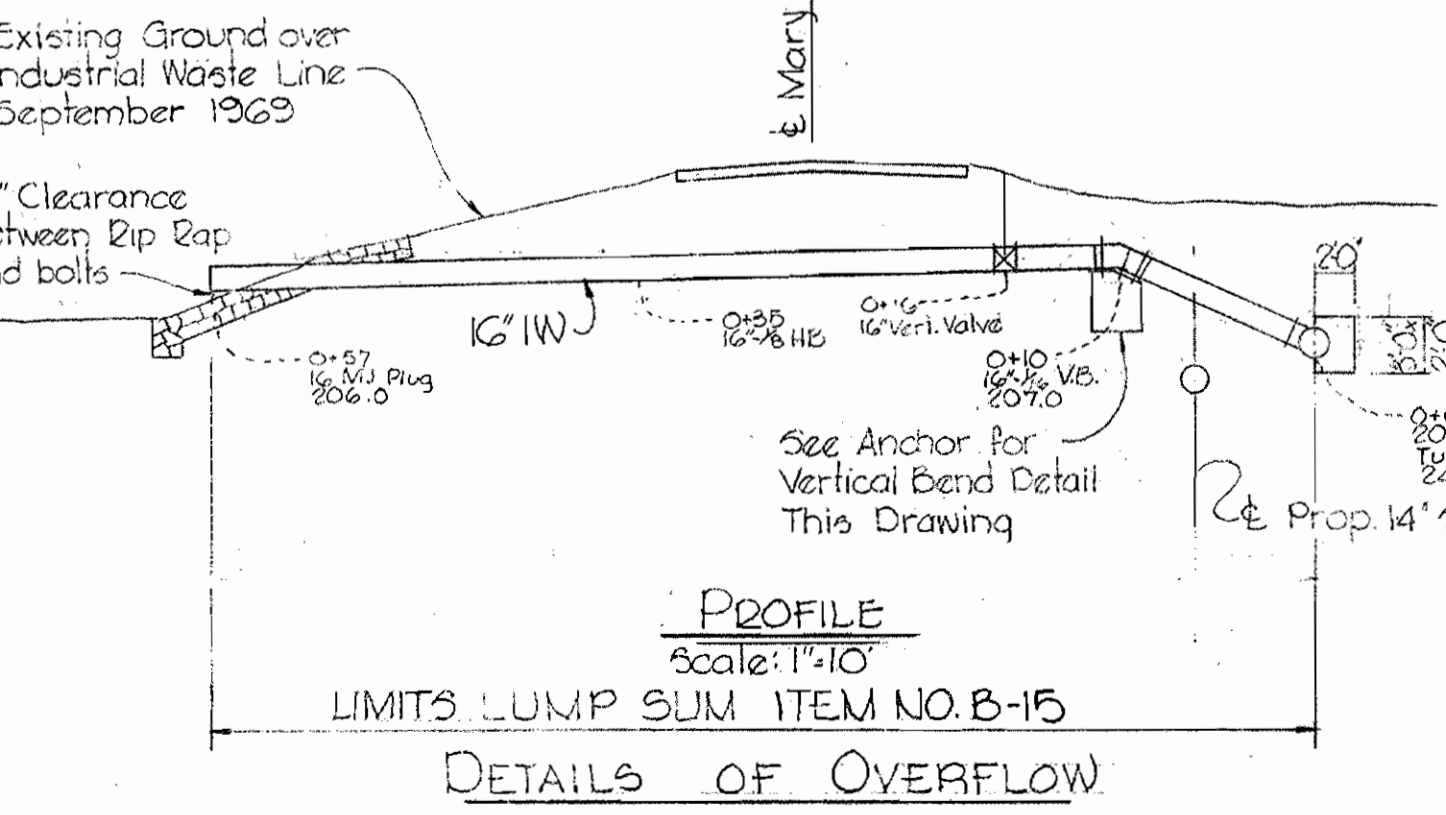
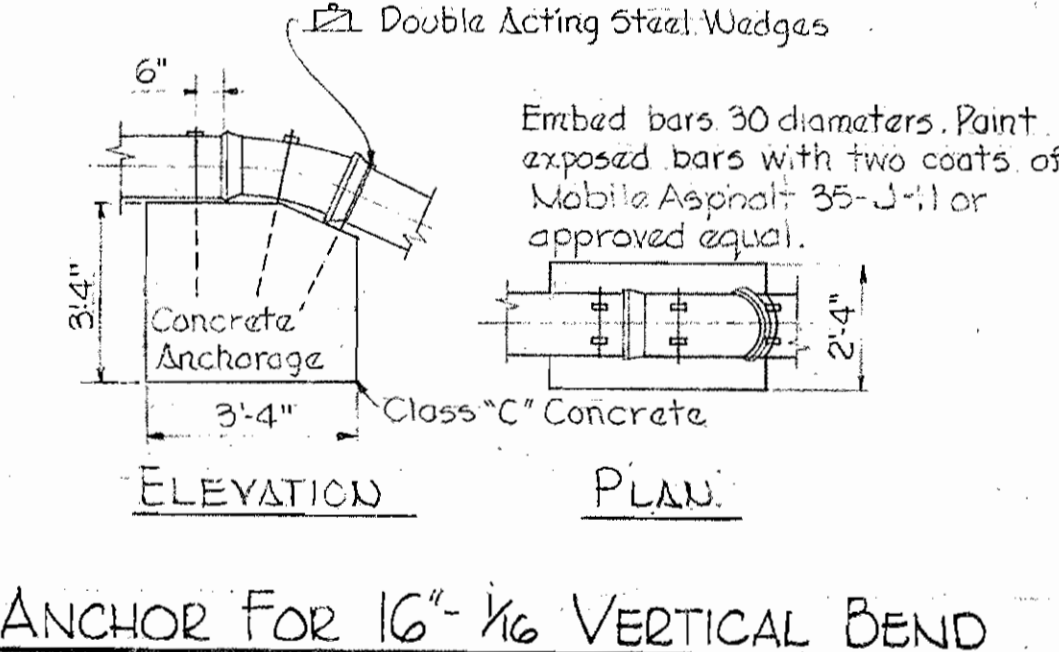
w.o. 6185-2
6272-2

Aug 23, 1971

W.C. 322-S/1



NOTES:
 Bypass I.W. Valves open clockwise.
 Valve box covers are unmarked.
 16" M.J. Plug must be removed before opening 16" Valve.



Handwritten signature

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

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND
 DATE 3-11-70
 CHIEF - BUREAU OF WATER AND SEWER

CONTRACT NO. 322-S

PLAN AND DETAILS OF
 SEWER MAINS

GUILFORD INTERCEPTOR SECTION 3
 GENERAL ELECTRIC INDUSTRIAL WASTE LINE
 SECTION 3

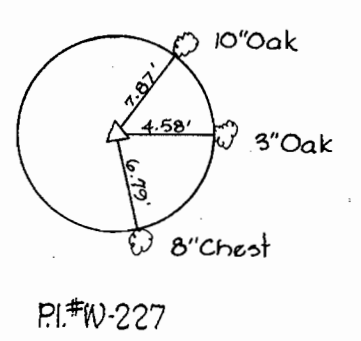
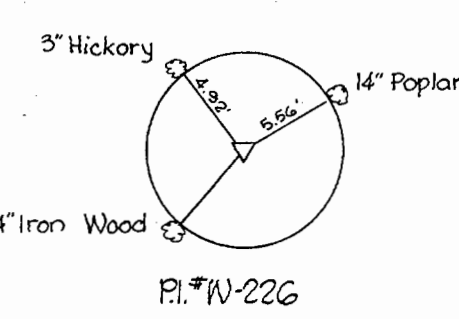
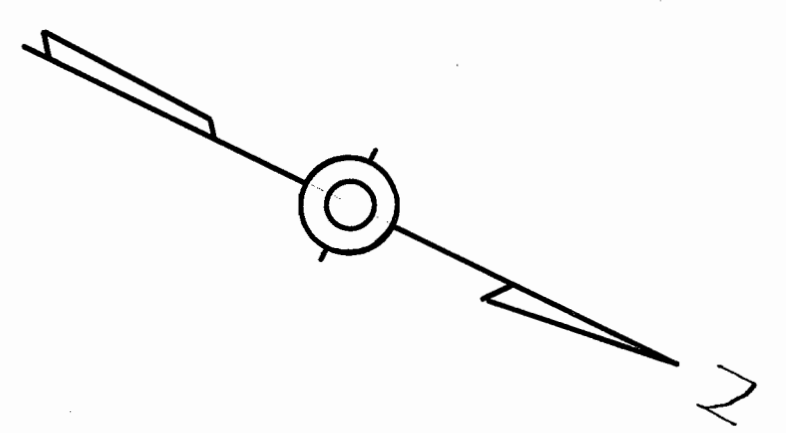
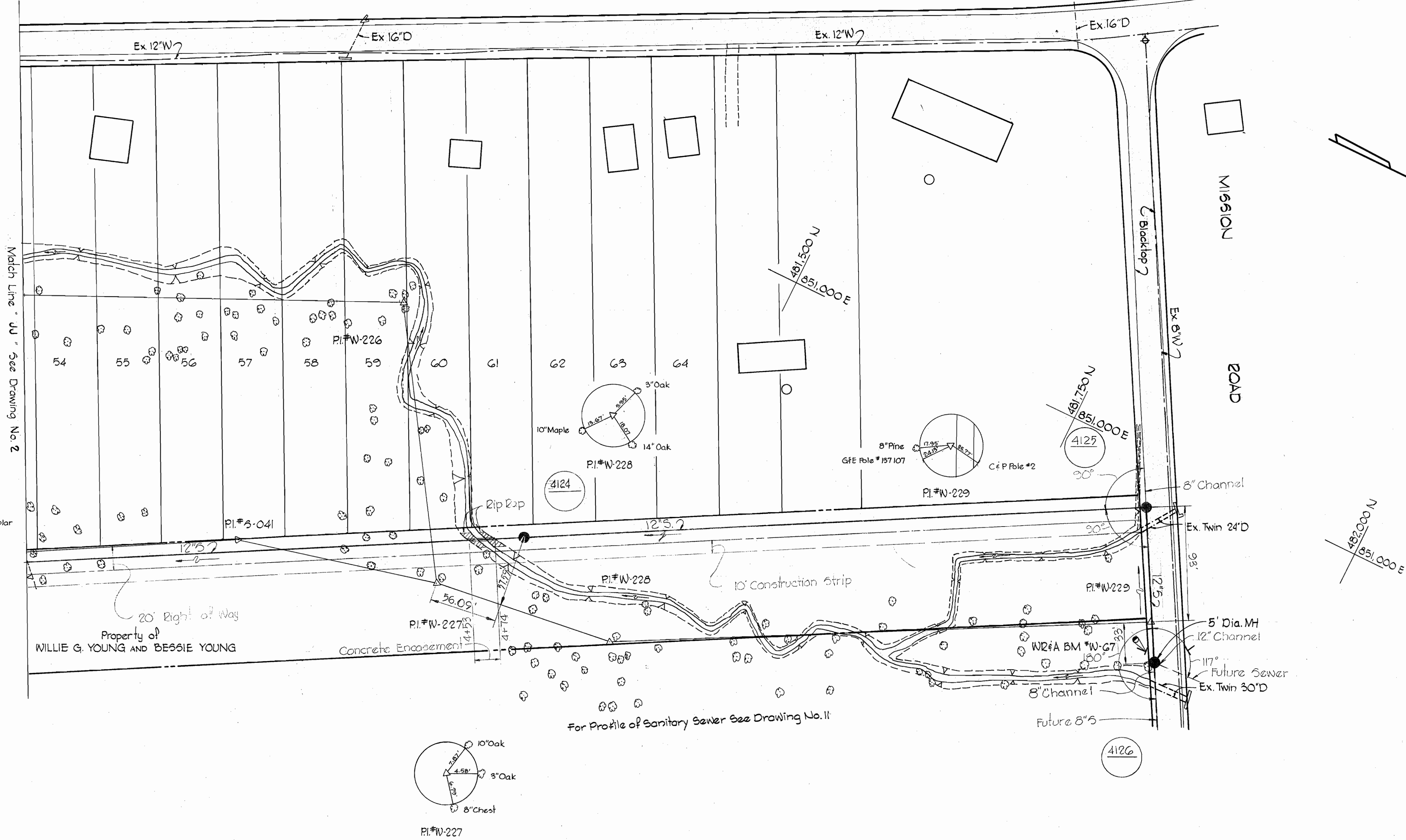
DRAWING NO. 2 OF 13
 SCALE AS SHOWN

W. O. 6187-2
 6272-2

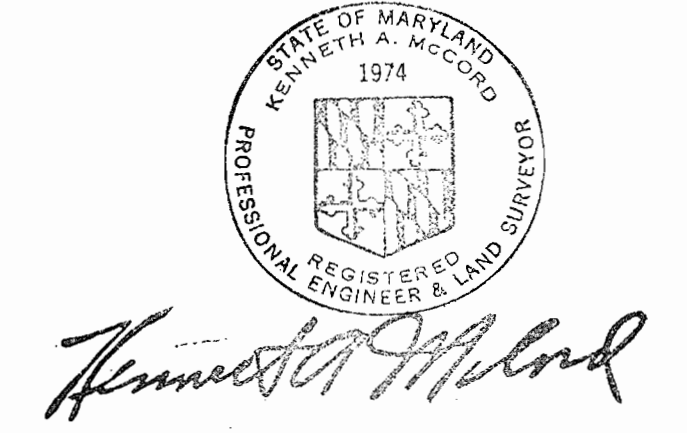
FB#4435 Aug. 23, 1971
 AS BUILT

WS 322-S/2

GUILFORD ROAD MARYLAND ROUTE #32



W.P. & A. BM # W-67 Elev. 260.61
 R.R. spike @ roadside G&E pole # 137107, 2d' = Ft. PI # W-229.



Kenneth A. McCord

Contract No. 322-S

WHITMAN, REQUARDT & ASSOCIATES ENGINEERS 1304 ST. PAUL ST. BALTIMORE, MARYLAND	DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND DATE: 3-11-70 W. O. Fulbert CHIEF - BUREAU OF WATER AND SEWER	CONTRACT NO. 322-S	PLAN OF SEWER MAINS	GUILFORD INTERCEPTOR SECTION 3 GENERAL ELECTRIC INDUSTRIAL WASTE LINE SECTION 3	DRAWING NO. 3 OF 13	SCALE 1"=50' FB # 4433, 4438 Aug 23, 1971
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W. O. G185-2

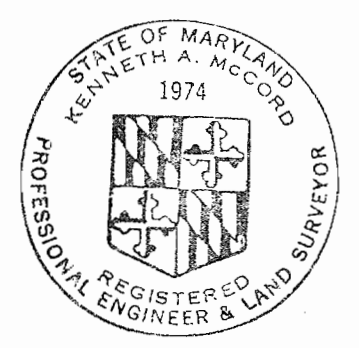
WS 322-S/3

GENERAL NOTES

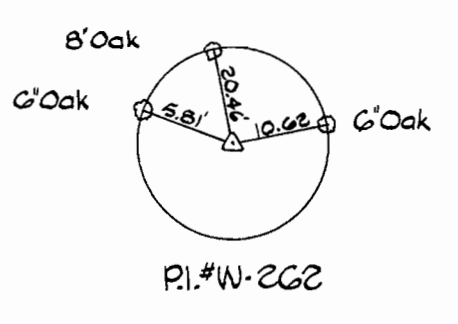
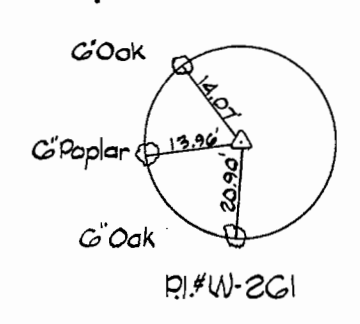
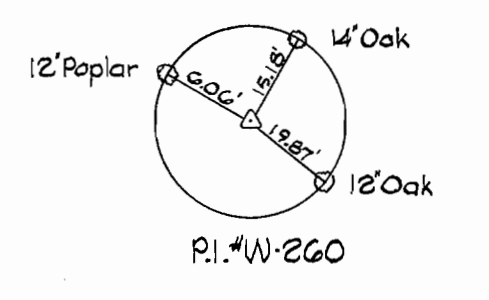
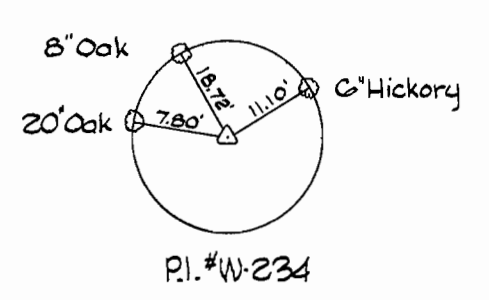
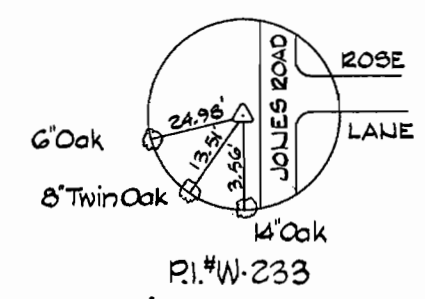
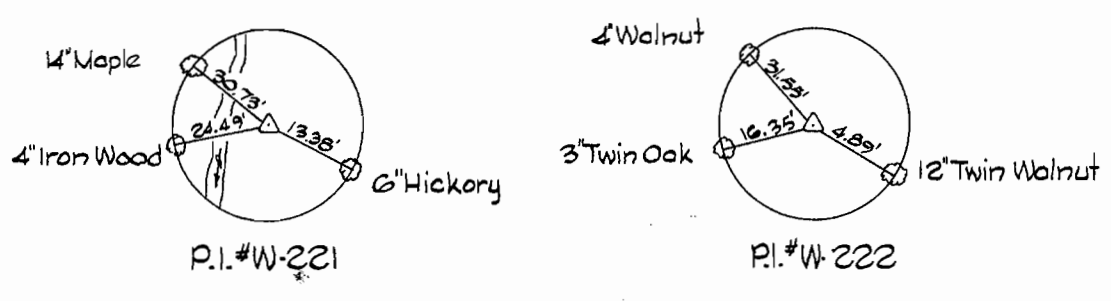
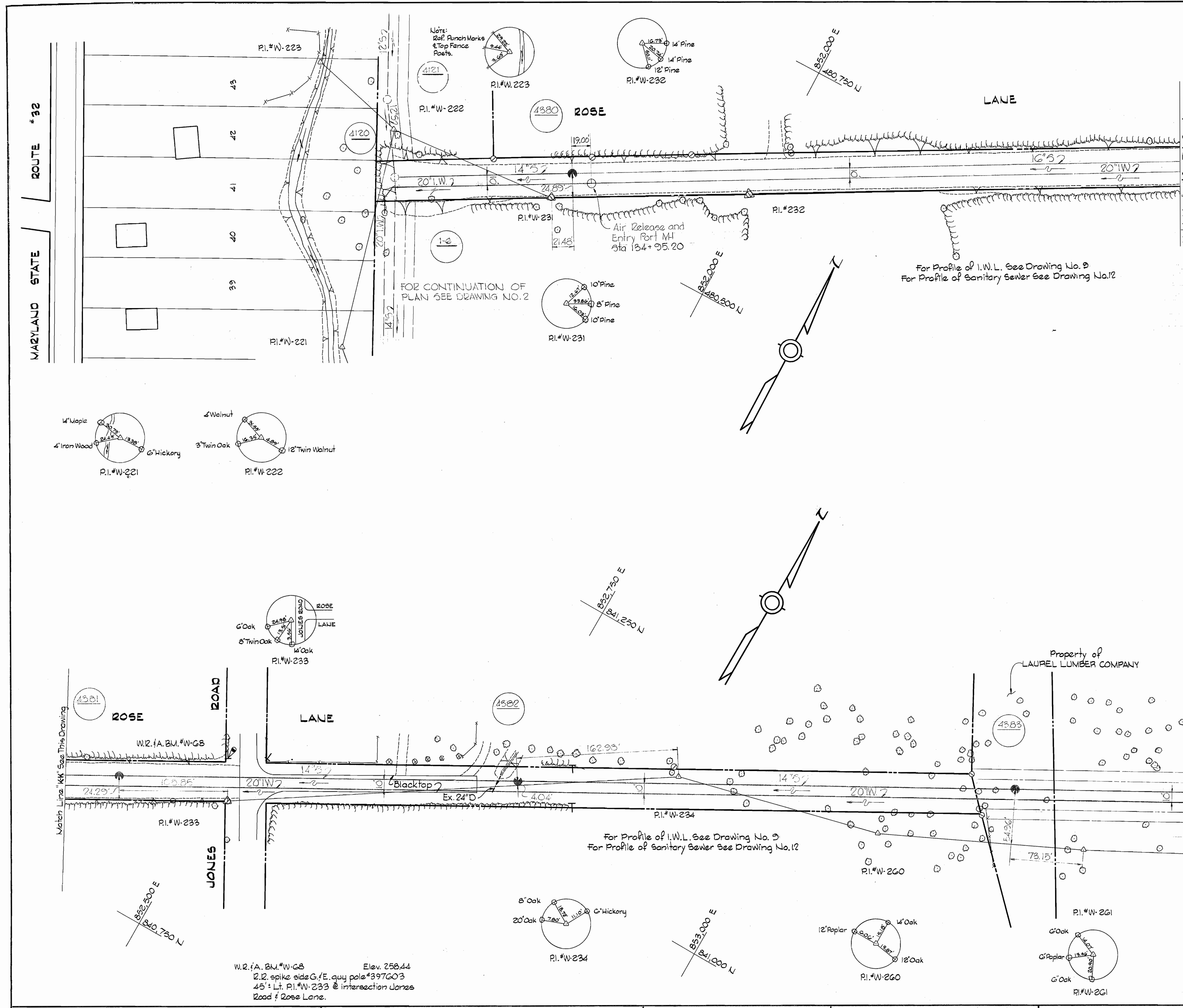
1. Approximate location of existing mains are shown. The Contractor shall take all necessary precautions to protect existing mains and services and maintain uninterrupted supply. Any damage incurred shall be repaired immediately.
2. All pipe elevations shown are invert elevations.
3. The Contractor shall locate existing utilities a minimum of two weeks in advance of construction operations in vicinity of utilities.
4. The pipe material for the Sanitary Sewer shall be Asbestos Cement. The Industrial Waste Line shall be Concrete Pressure Pipe ANWA designation C801-G4.
5. All manholes shall be 4'-0" inside diameter, except as noted on the drawings.
6. Build all manholes 1'-6" above existing ground unless otherwise noted.
7. The Contractor shall provide a joint in both the Sewer and Industrial Waste Lines within 2'-0" of all manhole walls.
8. For details of the Air Release and Entry Port Manholes on the Industrial Waste Line, see Drawing No. 10.
9. For detail of Rip-Rap, see Drawing No. 11.

Match Line "KK" See This Drawing

Match Line "L-L" See Drawing No. 5



Kenneth A. McCord



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

HOWARD COUNTY METROPOLITAN COMMISSION
DATE: 3-11-70
W. O. Libert
CHIEF ENGINEER

CONTRACT NO. 322-S

PLAN OF
SEWER MAINS

GUILFORD INTERCEPTOR SECTION 3
GENERAL ELECTRIC INDUSTRIAL WASTE LINE
SECTION 3

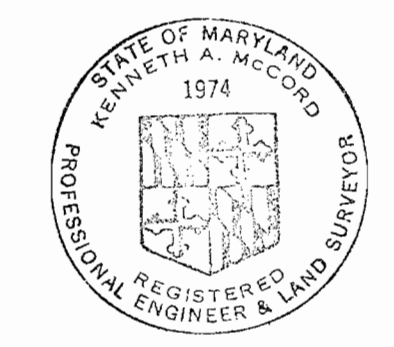
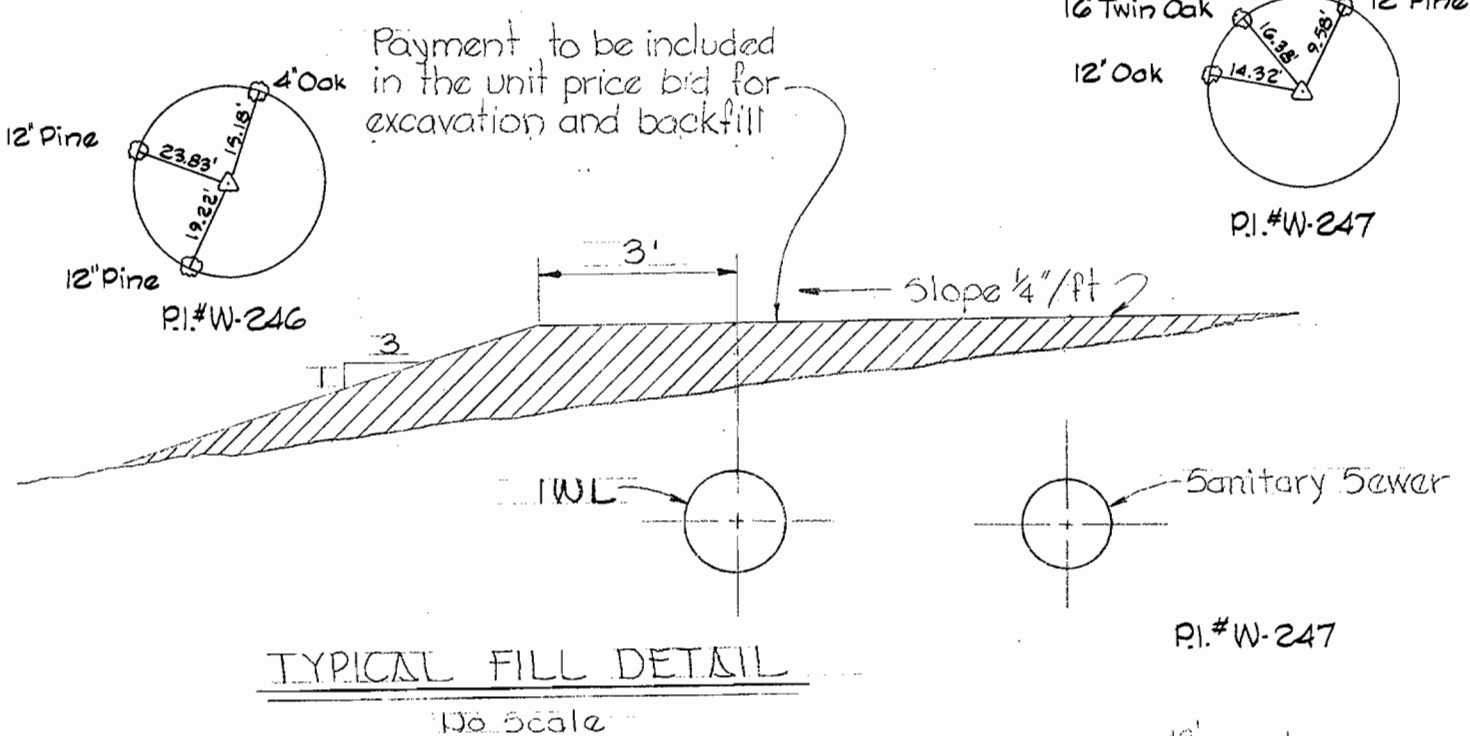
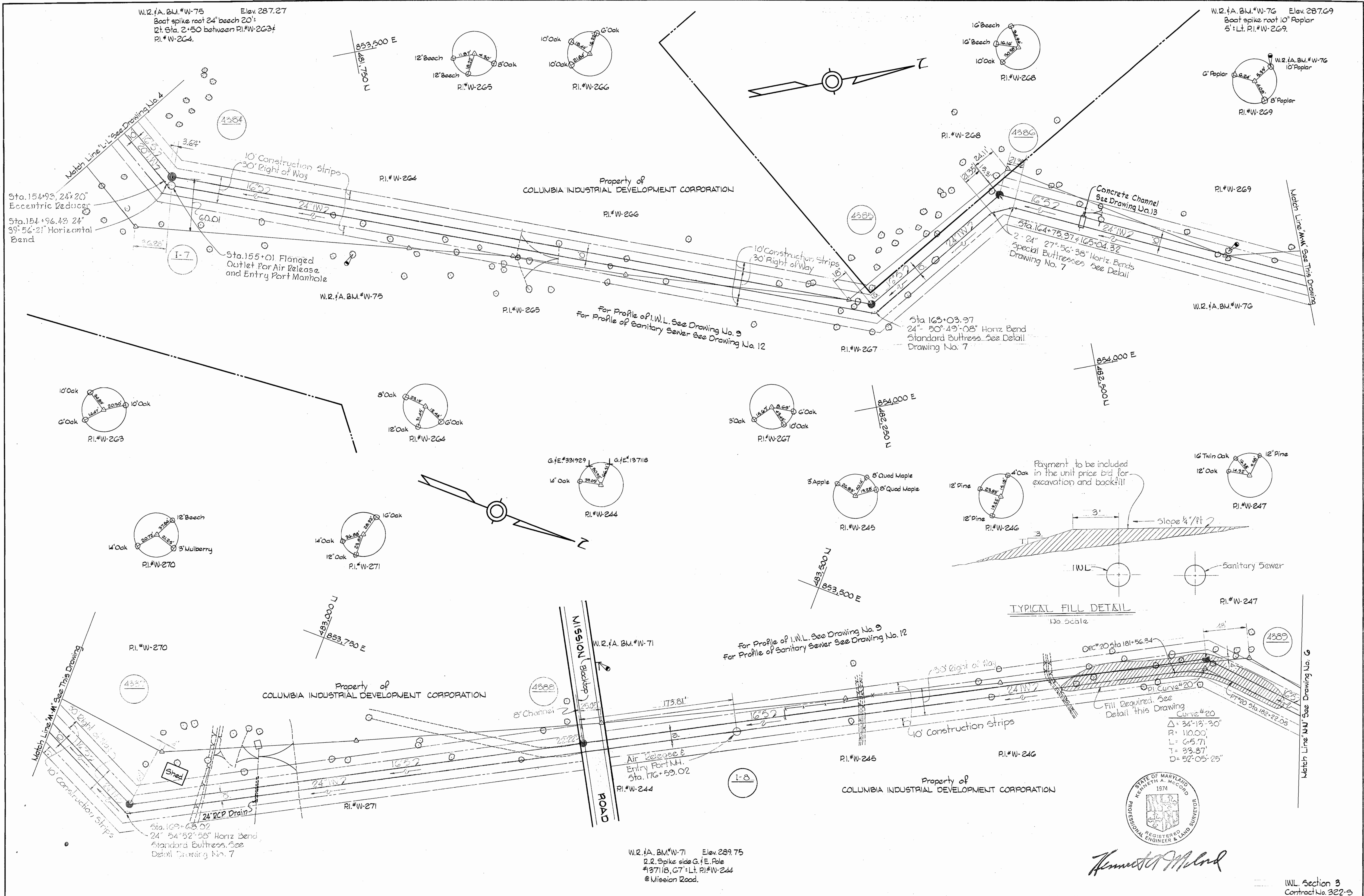
DRAWING NO. 4 OF 13
SCALE 1" = 50'

W. O. 6185-2
6272-2

FB # 4433, 4439 Aug. 23, 1971
AS BUILT

WS 322-S/4

WS 322-S/5



Kenneth A. McLeod

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

HOWARD COUNTY METROPOLITAN COMMISSION
 DATE 3-11-70 *W O Fulbert*
 CHIEF ENGINEER

CONTRACT NO. 322-S

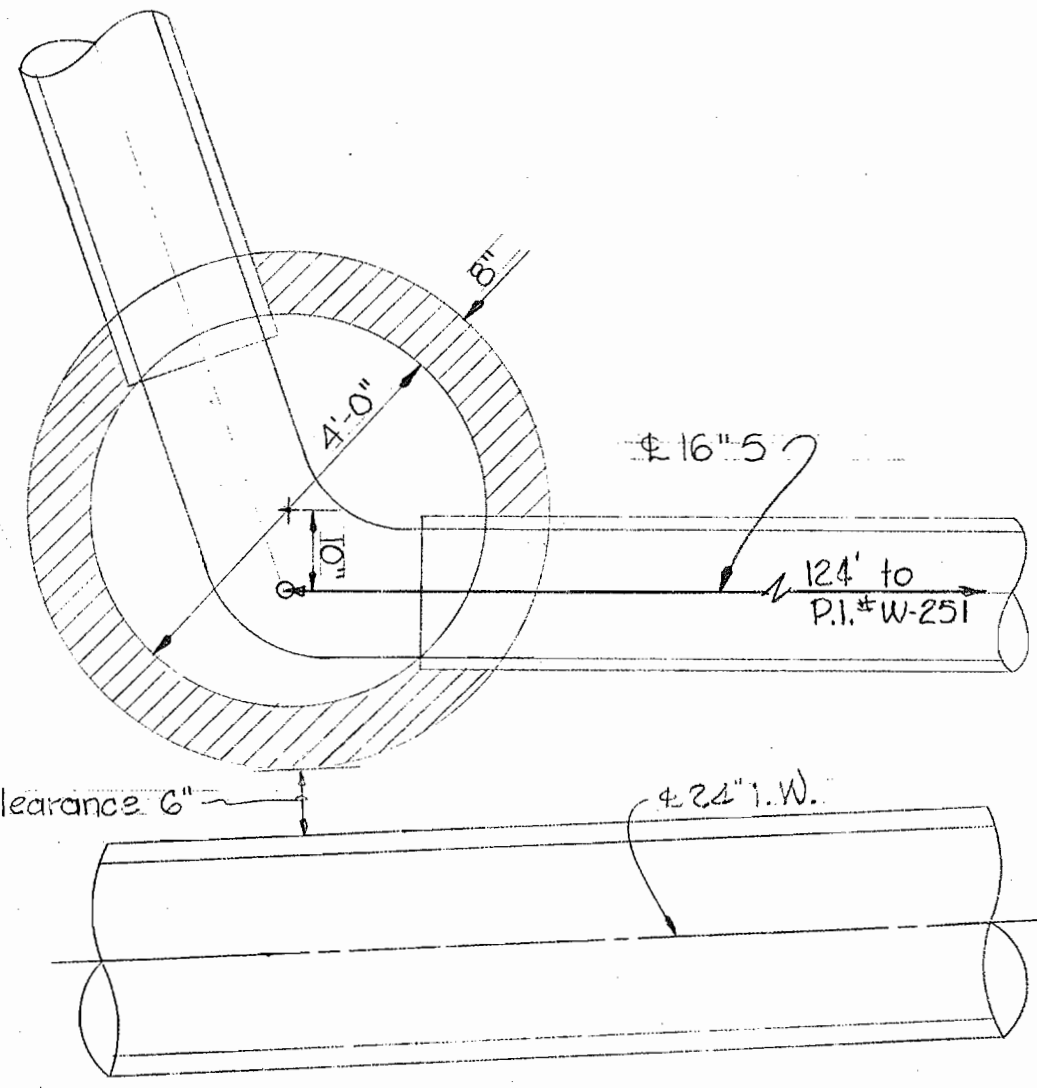
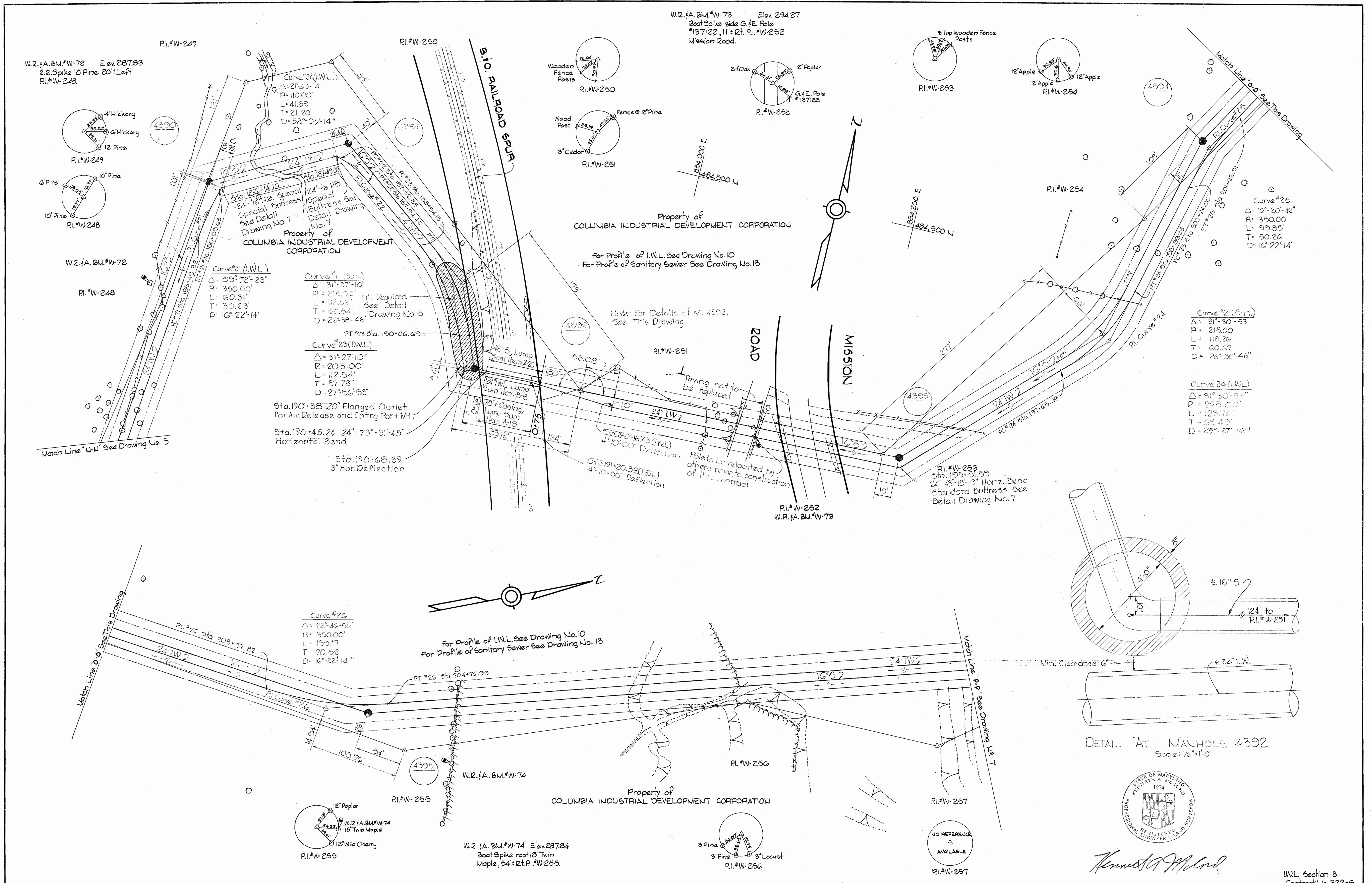
PLAN AND DETAIL OF
 SEWER MAINS

GUILFORD INTERCEPTOR SECTION 3
 GENERAL ELECTRIC INDUSTRIAL WASTE LINE
 SECTION 3

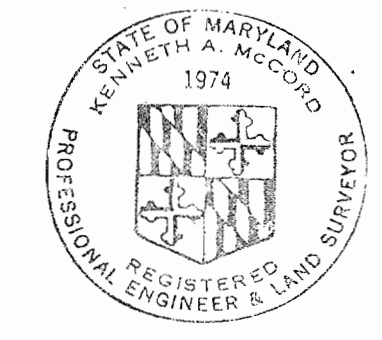
DRAWING NO. 5 OF 13
 SCALE AS SHOWN
 FB 4439 Aug 23, 1971

W. O. 6185-2
 6272-2

WS 322-5/6



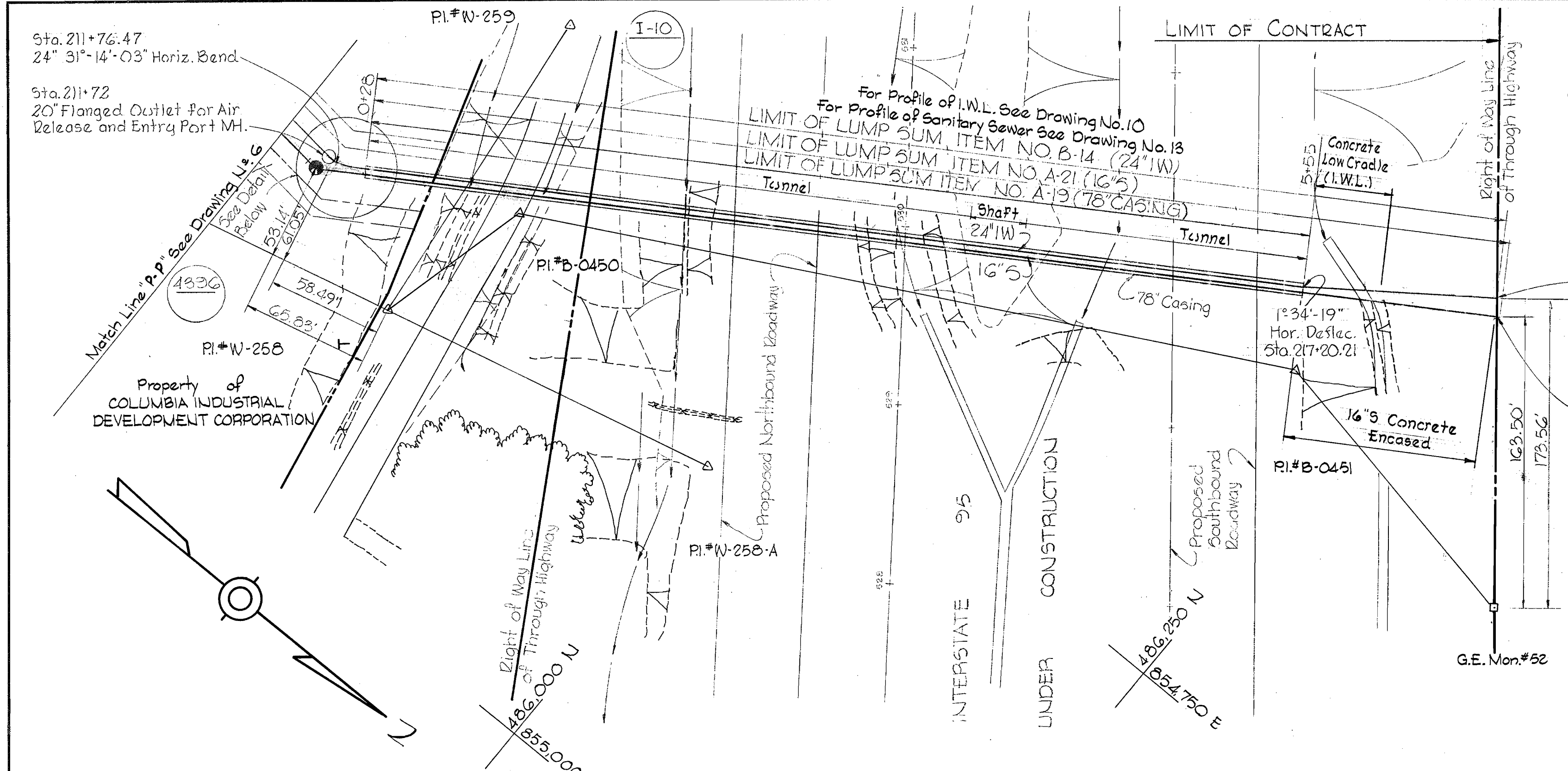
DETAIL 'AT' MANHOLE 4392
Scale: 1/2"=1'-0"



Kenneth A. Milrod

WHITMAN, REQUARDT & ASSOCIATES ENGINEERS 1304 ST. PAUL ST. BALTIMORE, MARYLAND	HOWARD COUNTY METROPOLITAN COMMISSION 3-11-70 <i>W O Liljedal</i> DATE CHIEF ENGINEER	CONTRACT NO. 322-S	PLAN AND DETAILS OF SEWER MAINS	GUILFORD INTERCEPTOR SECTION 3 GENERAL ELECTRIC INDUSTRIAL WASTE LINE SECTION 3	DRAWING NO. 6 OF 13 SCALE AS SHOWN FB # 4439 Aug. 25, 1971 AS BUILT
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W. O. 6185-2
6272-2



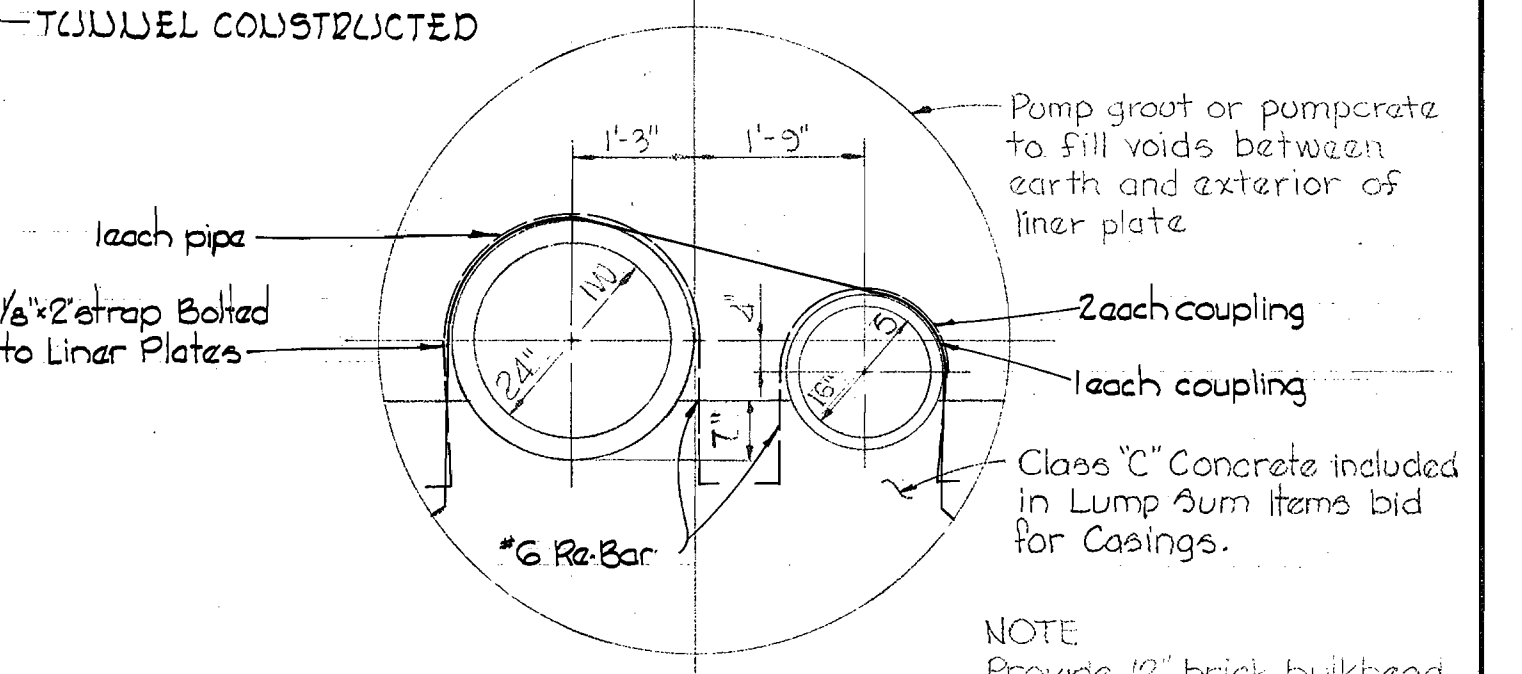
MINIMUM LINER PLATE REQUIREMENTS

QT #1	22	NPL 1-95	7 5BL
ARMCO	10 ga	10 ga	7 ga
COMMERCIAL	3/16"	3/16"	1/4"
TRUSCON	3/16"	3/16"	1/4"

All Tunnel Liner Plate shall be Hot Dipped Galvanized and asphalt coated.

78" CONCRETE PIPE REQUIREMENTS
FOR JACKING ASTM C-76 CLASS V
IN OPEN CUT ASTM C-76 CLASS V

Connect to 24" G.E. MH #135 (Extra Work Item)
Connect to G.E. Sanitary MH

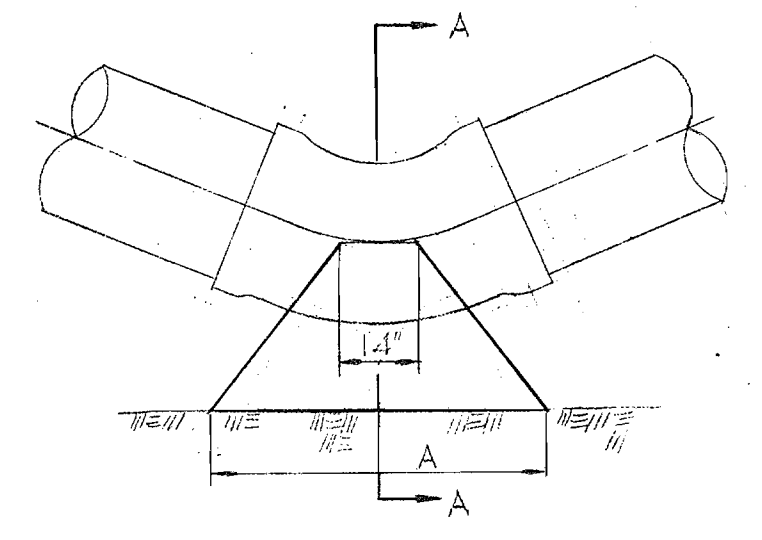


78" CASING UNDER I-95 AND B&O RAILROAD SPUR
Scale: 1/2" = 1'-0"

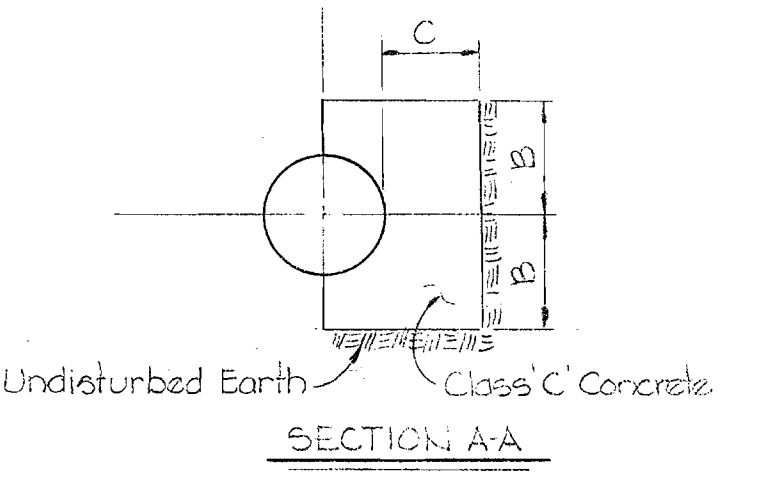
I-95 Tunnel
B&O Tunnel

NOTE: Provide 12" brick bulkhead at each end of tunnel. Provide drain pipes through bulkhead on each side of sewer and Industrial Waste Line at low end of tunnel (8'-2").

Note: No PI. references available for this drawing.

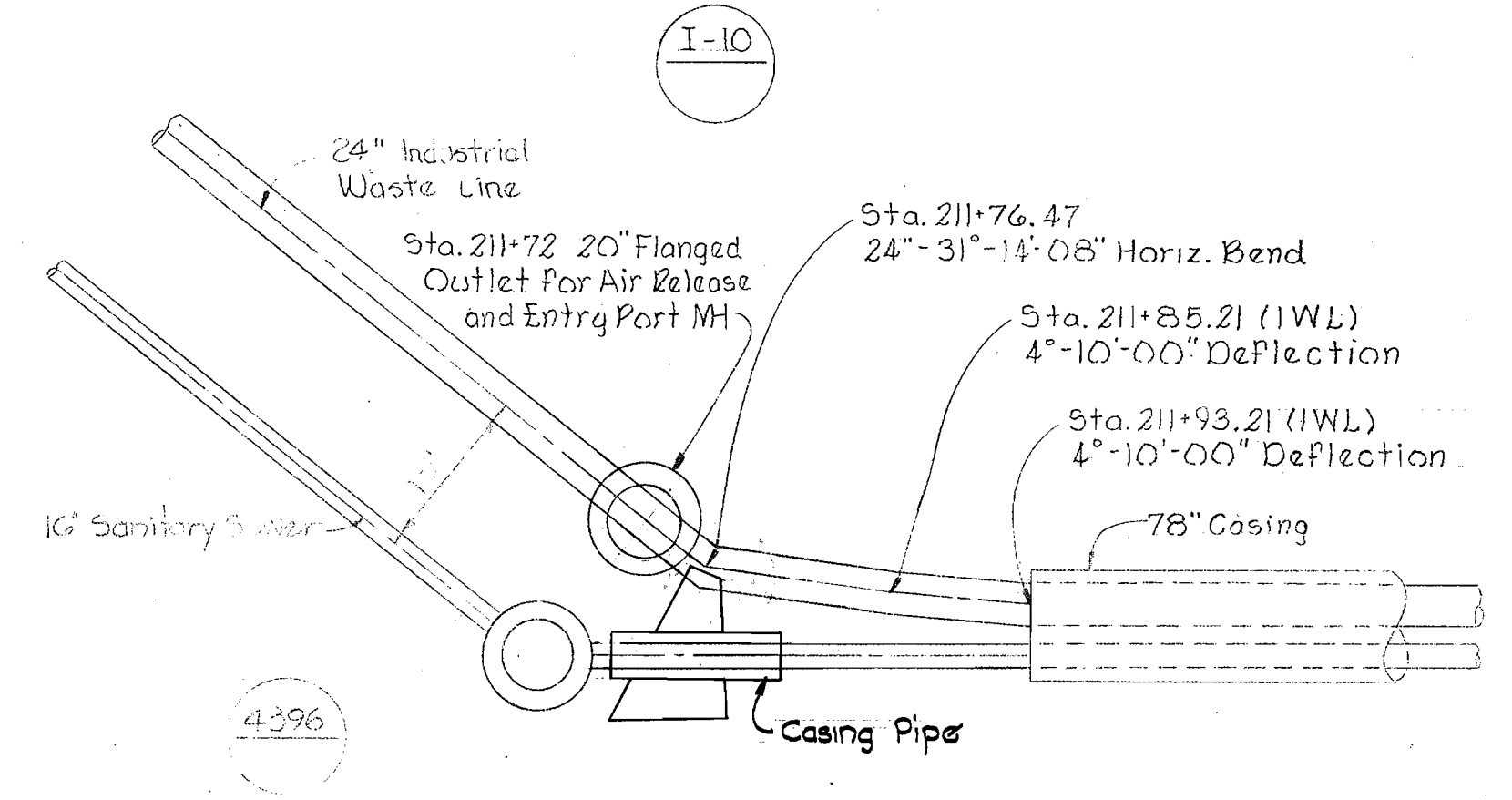


PLAN

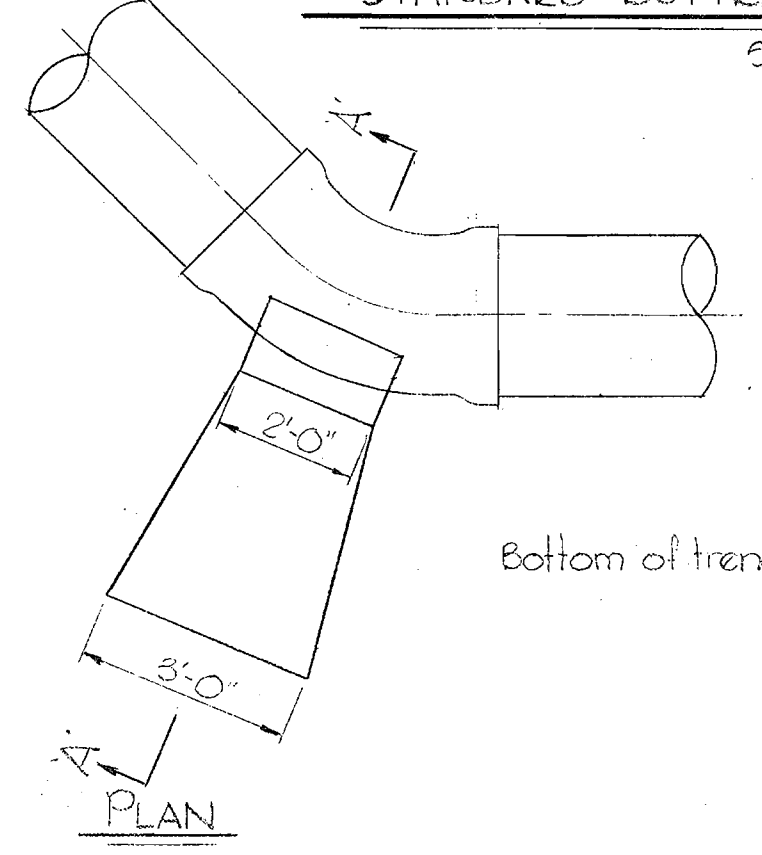


SECTION A-A

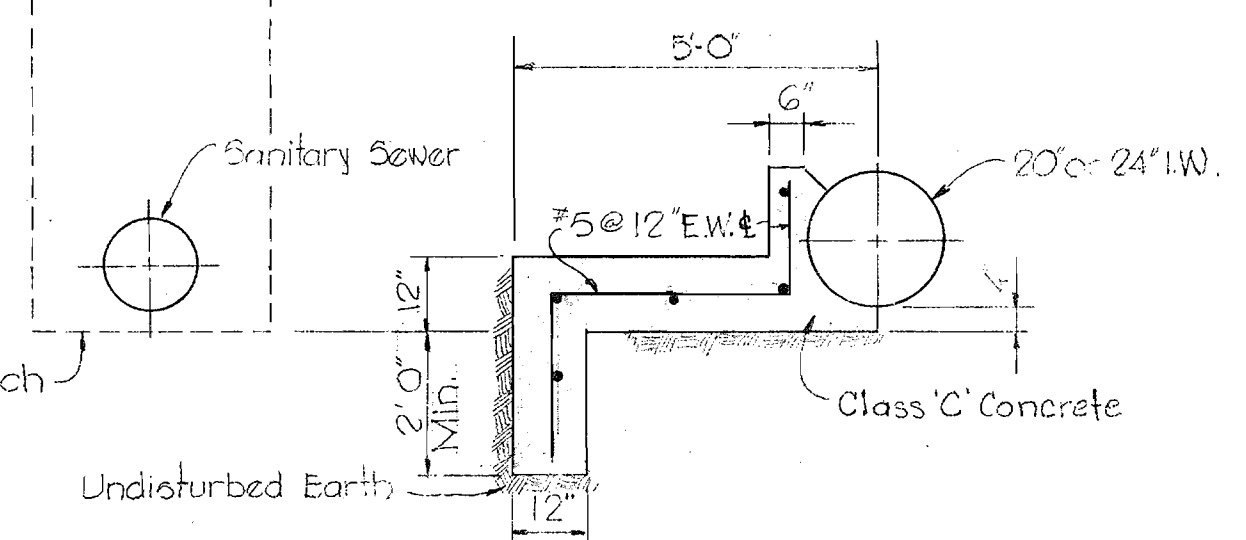
STANDARD BUTTRESS FOR HORIZONTAL BENDS
Scale: None



DETAIL AT MANHOLE 4396
Scale: 1" = 1'-0"

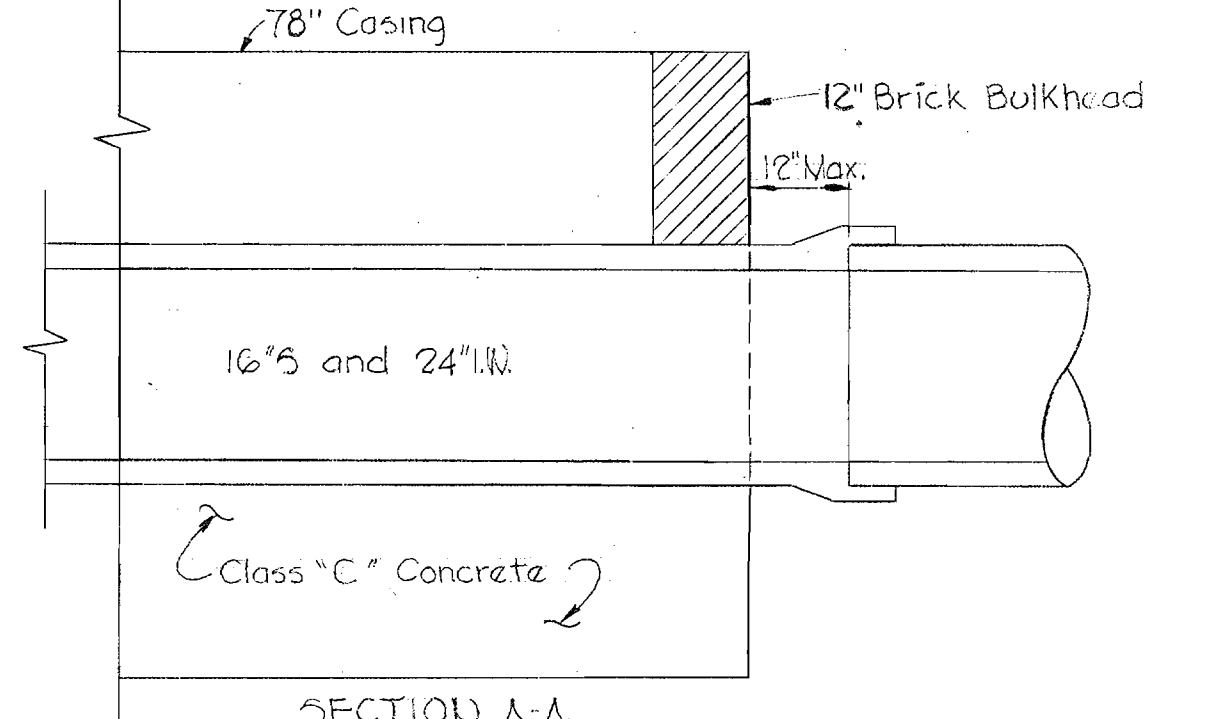


PLAN



SECTION A-A

SPECIAL BUTTRESS FOR HORIZONTAL BENDS

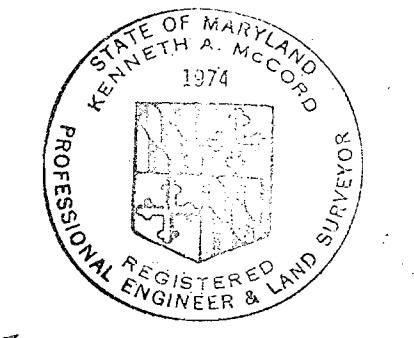


SECTION A-A

DETAIL AT END OF CASING
Scale: 1/2" = 1'-0"

BUTTRESS FOR HORIZONTAL BENDS

BEND	20"	24"
16°-28°	A 3'-0"	3'-7"
	B 1'-2"	1'-5"
	C 1'-4"	1'-6"
39°-50°	A 4'-8"	5'-7"
	B 1'-7"	1'-11"
	C 1'-4"	1'-3"



Kenneth A. McLeod

IWL Section 3
Contract No. 322-5

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

HOWARD COUNTY METROPOLITAN COMMISSION
DATE: 3-11-70
W. O. Fulbert
CHIEF ENGINEER

CONTRACT NO. 322-S

PLAN OF SEWER MAINS

GUILFORD INTERCEPTOR SECTION 3
GENERAL ELECTRIC INDUSTRIAL WASTE LINE
SECTION 3

DRAWING NO. 7 OF 13
SCALE 1" = 50'

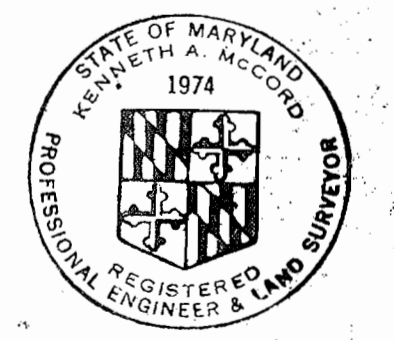
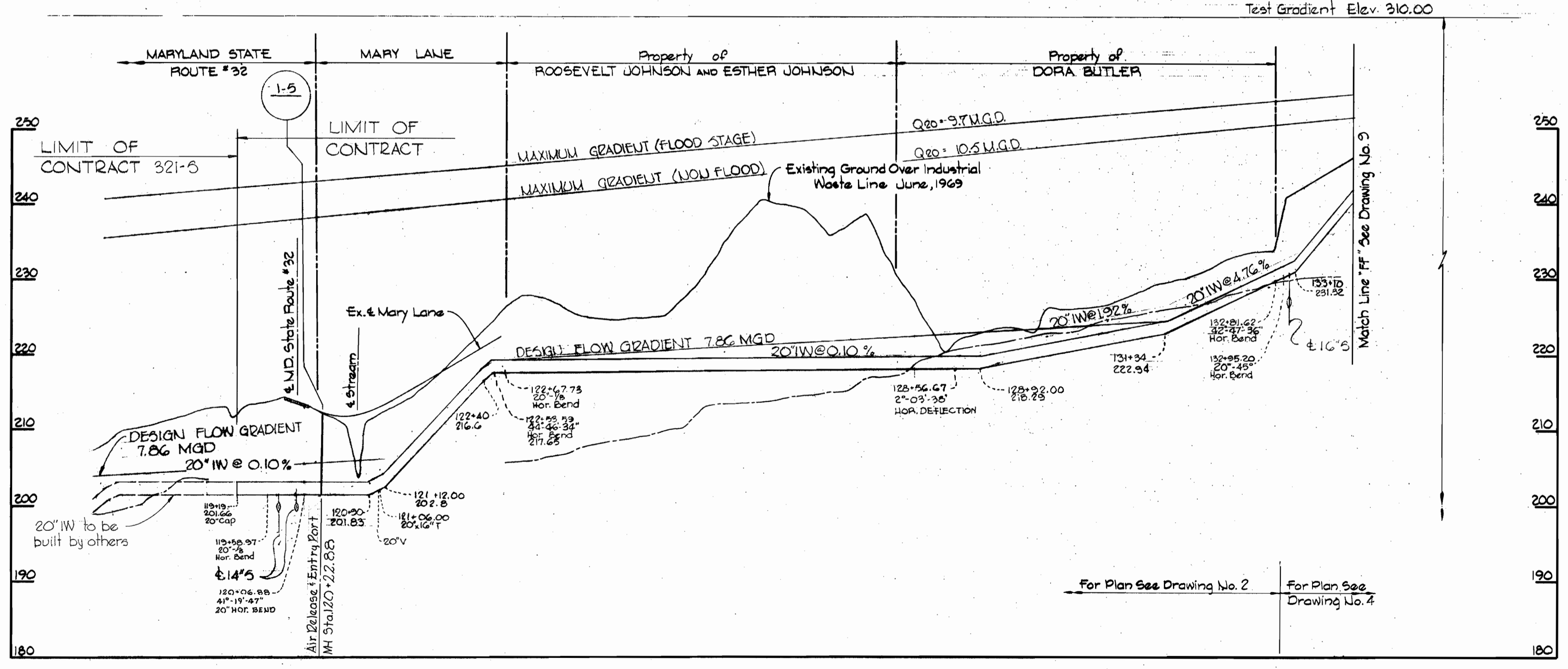
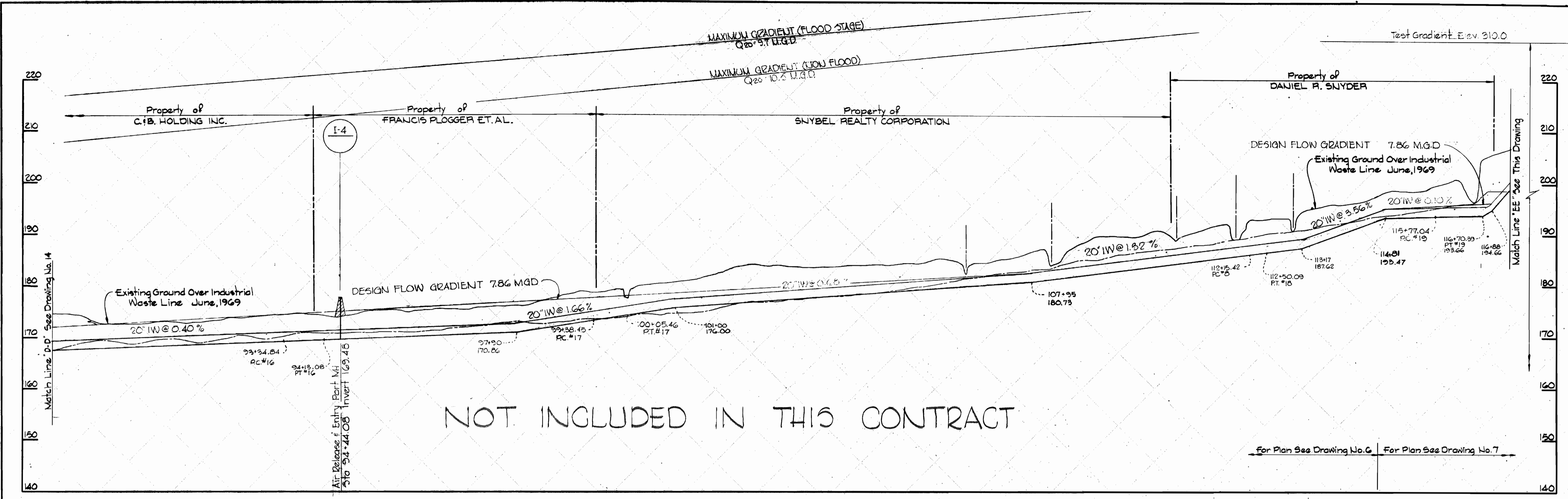
W. O. 6185-2
6272-2

FB. 4499, 4453 Aug 23, 1971

486-489
485-489

BUILT

WS 322-S/7



Kenneth A. McCord

PART "B"
IWL Section 3
Contract No. 322-5

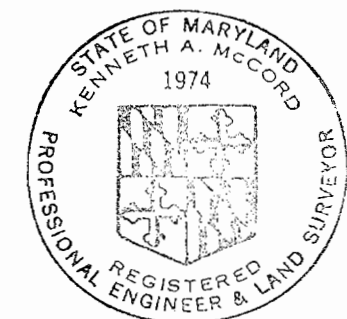
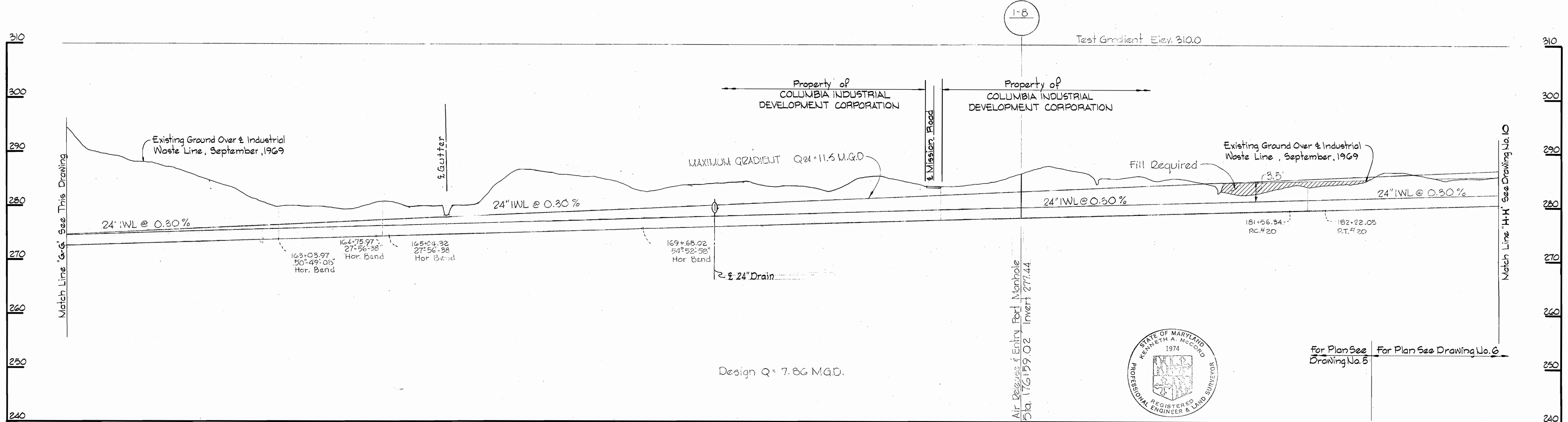
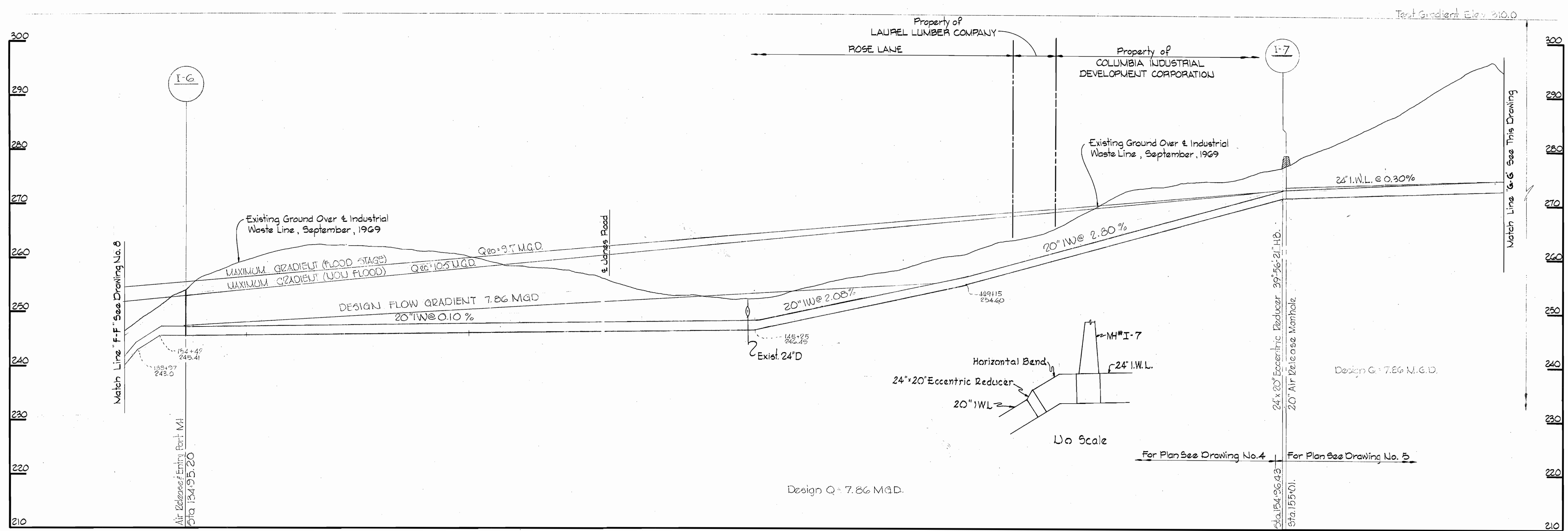
WHITMAN, REQUARDT & ASSOCIATES ENGINEERS 1304 ST. PAUL ST. BALTIMORE, MARYLAND	HOWARD COUNTY METROPOLITAN COMMISSION DATE: 3-11-70 <i>W O Pillard</i> CHIEF ENGINEER	CONTRACT NO. 322-S	PROFILES OF INDUSTRIAL WASTE LINES	GUILFORD INTERCEPTOR SECTION 3 GENERAL ELECTRIC INDUSTRIAL WASTE LINE SECTION 3	DRAWING NO. 8 OF 13 SCALE 1"=100'H 1"=10'V
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W. O. 6272-2

Aug 23, 1971

SUSPENSE

SUSPENSE



Kenneth A. McCord

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

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
3-11-70
W. J. Hubert
CHIEF - BUREAU OF WATER AND SEWER

CONTRACT NO. 322-S

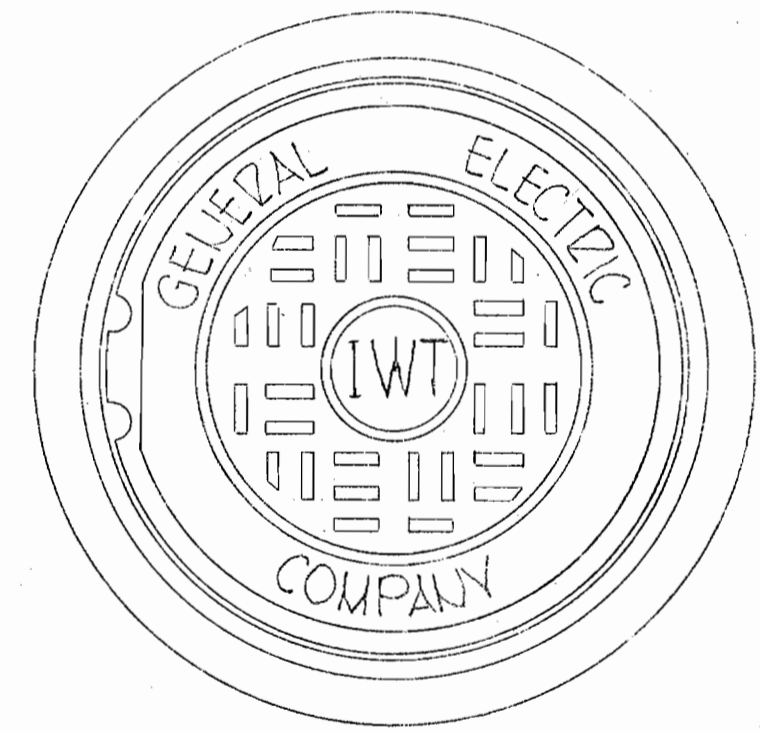
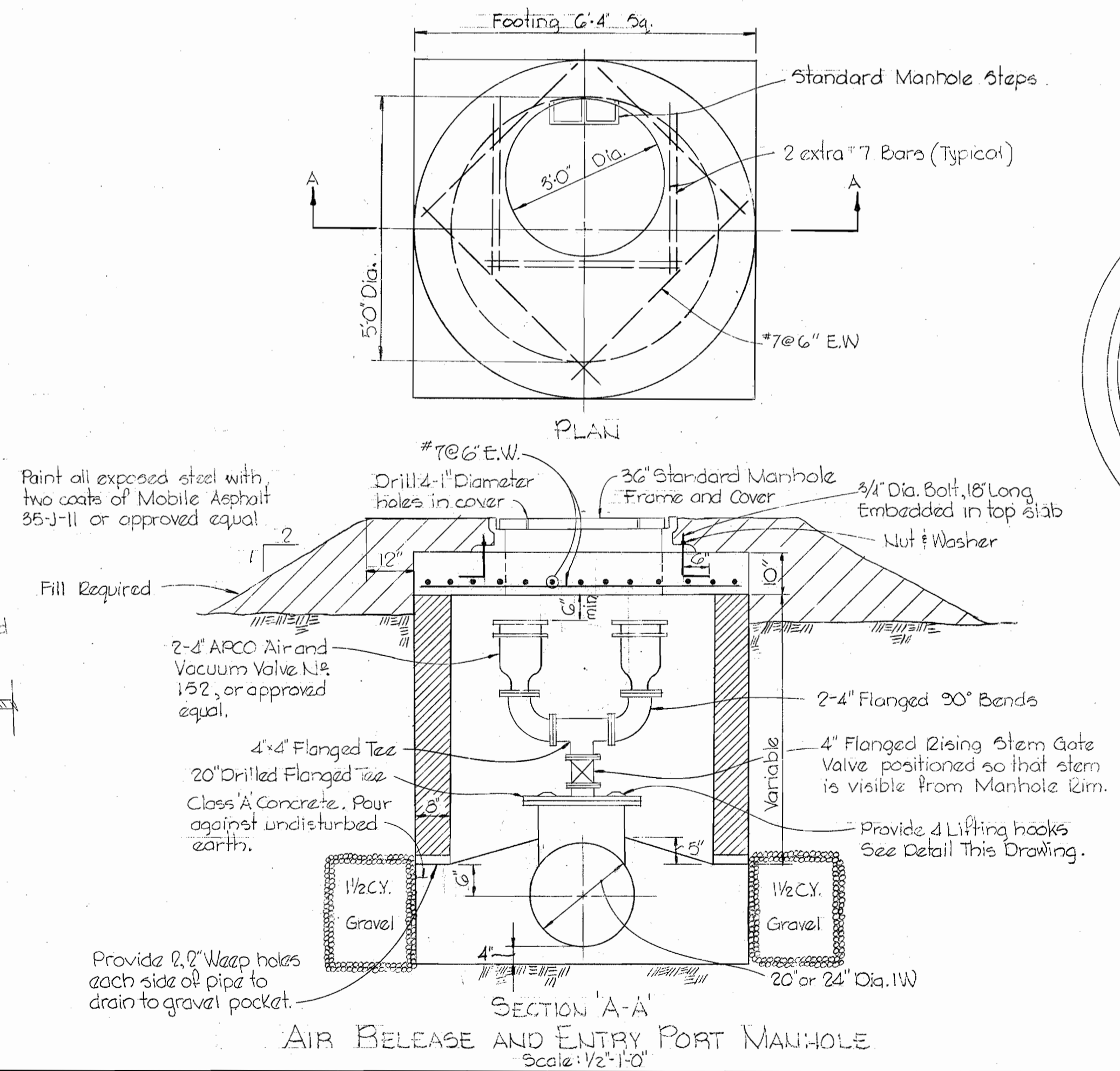
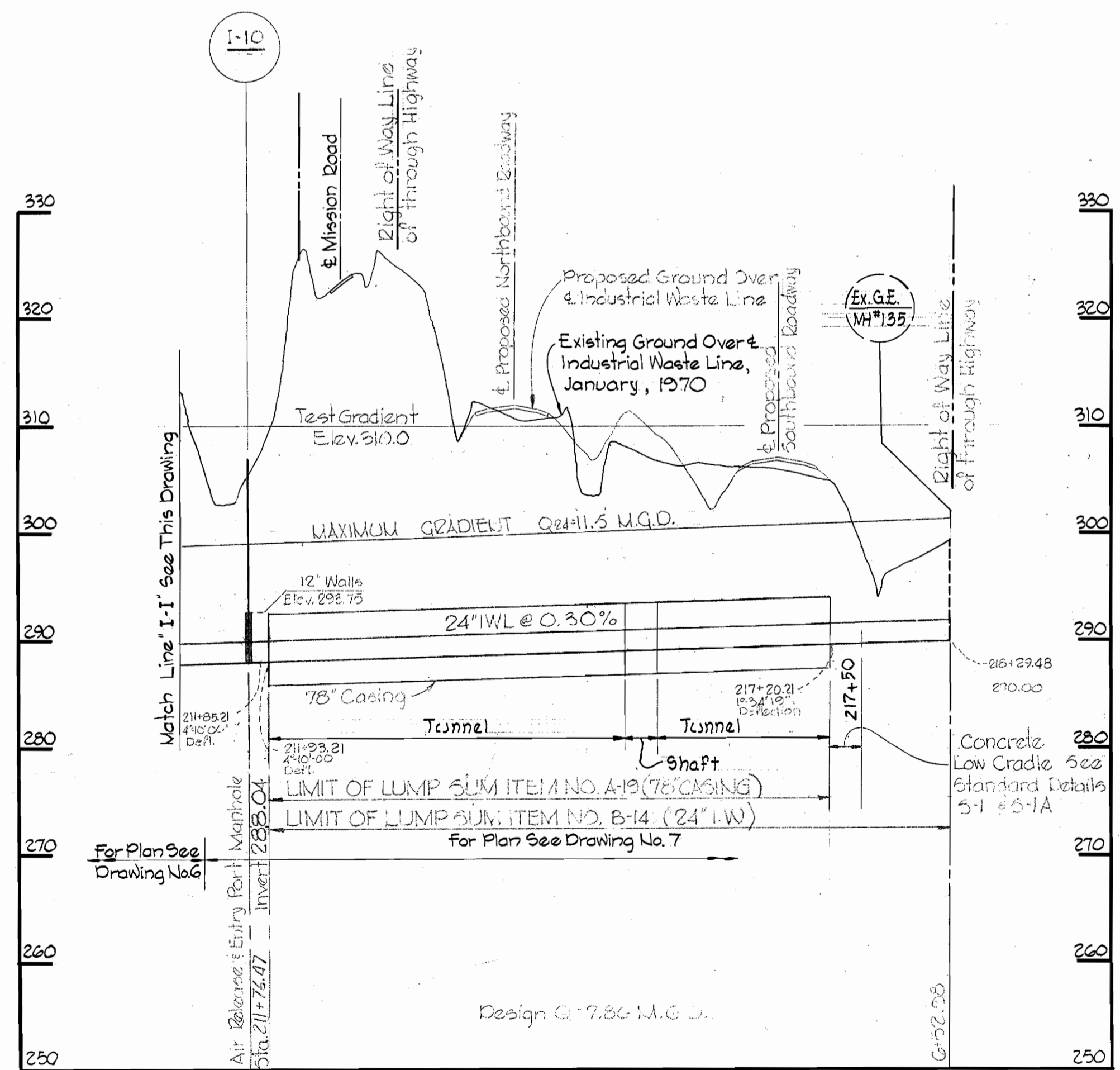
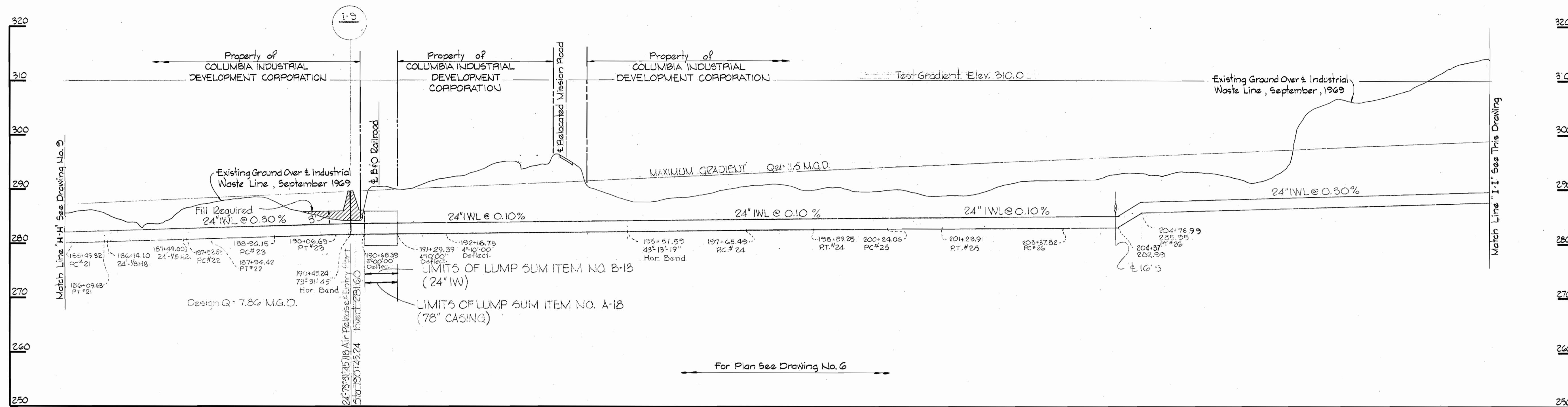
PROFILES OF
INDUSTRIAL WASTE LINES

GUILFORD INTERCEPTOR SECTION 3
GENERAL ELECTRIC INDUSTRIAL WASTE LINE
SECTION 3

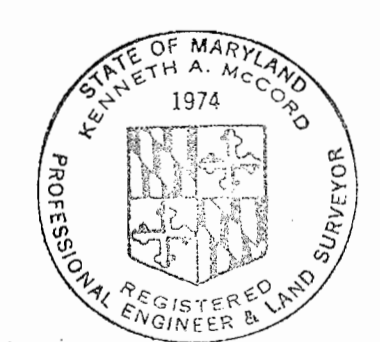
PART 6
I.W.L. Section 3
Contract No. 322-5
DRAWING NO. 9
OF 13
SCALE
H: 1" = 100'
V: 1" = 10'

W. O. 6272-2

AS BUILT Aug 23, 1971



INDUSTRIAL WASTE
MANHOLE COVER



Kenneth A. McCord

PART 'B'
IWL Section 3
Contract No. 322-5

DRAWING NO. 10 OF 13	SCALE H:1"=100' V:1"=10'
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WHITMAN, REQUARDT & ASSOCIATES
ENGINEERS
1304 ST. PAUL ST.
BALTIMORE, MARYLAND

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
3-11-70
W. O. Falwell
CHIEF - BUREAU OF WATER AND SEWER

CONTRACT NO. 322-S

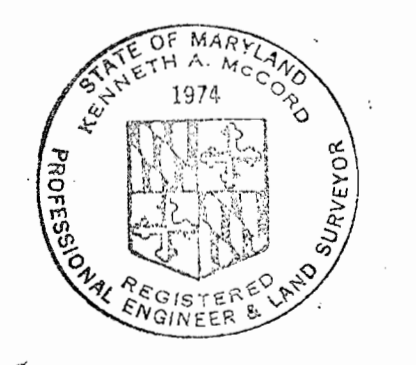
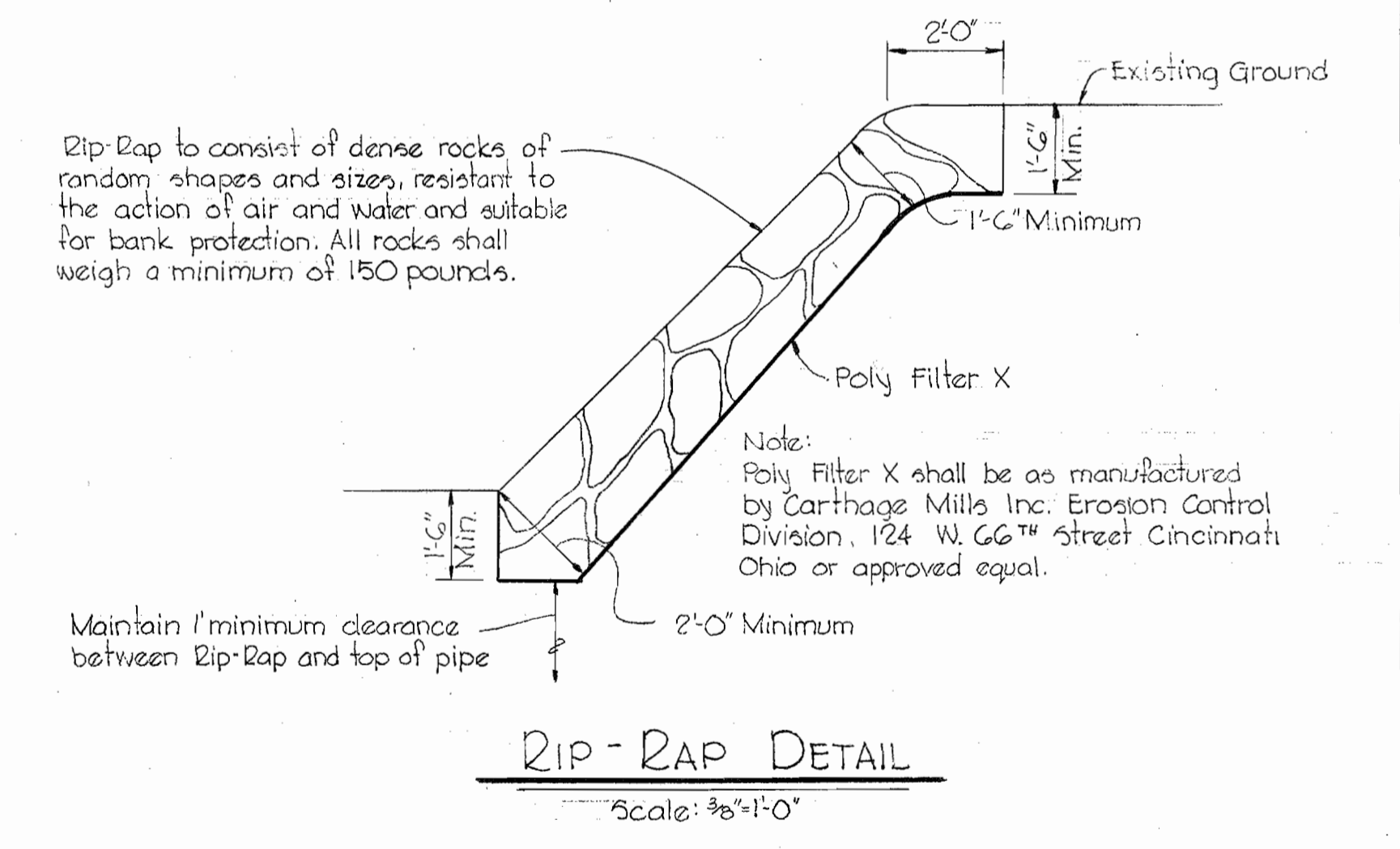
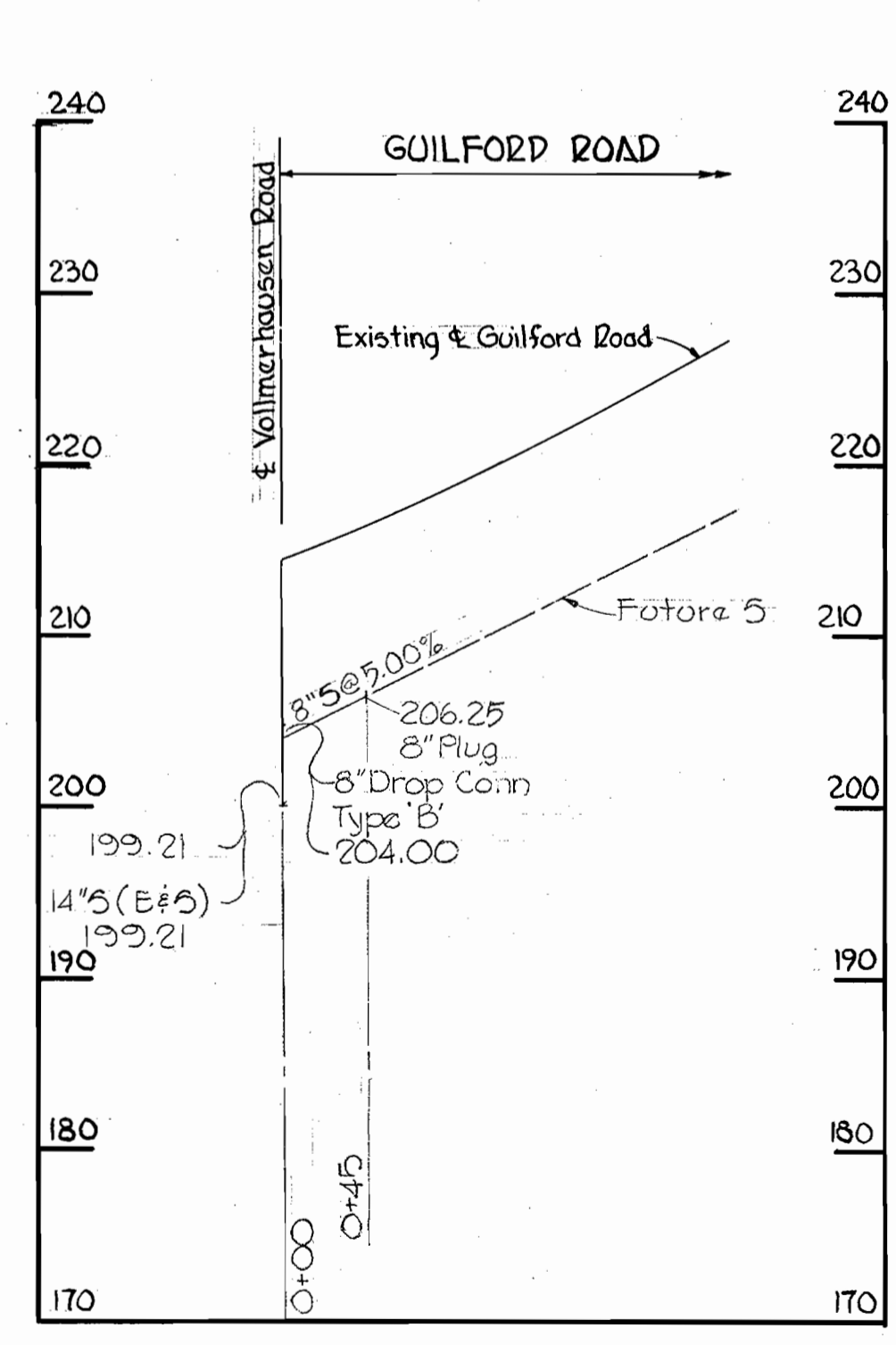
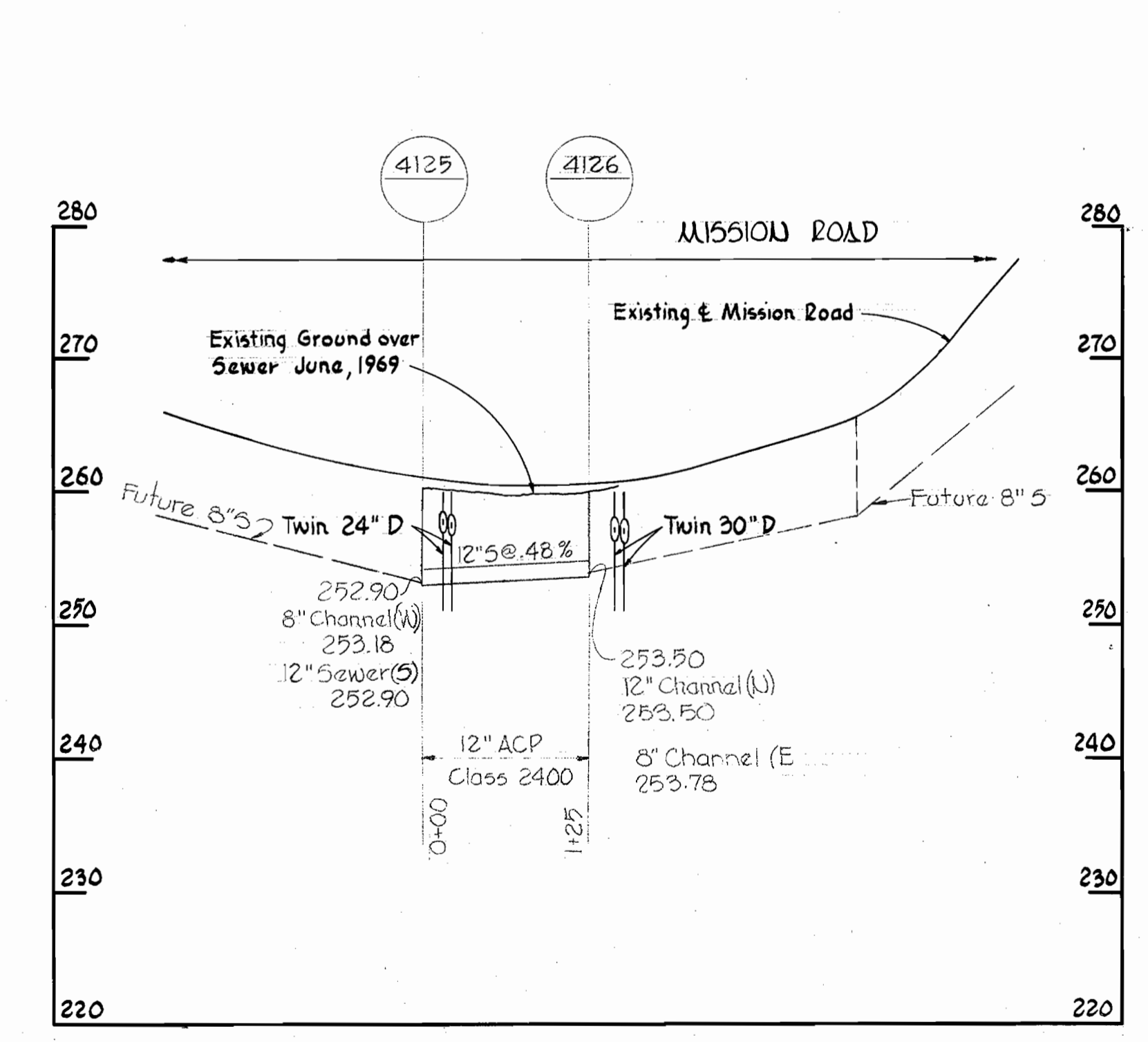
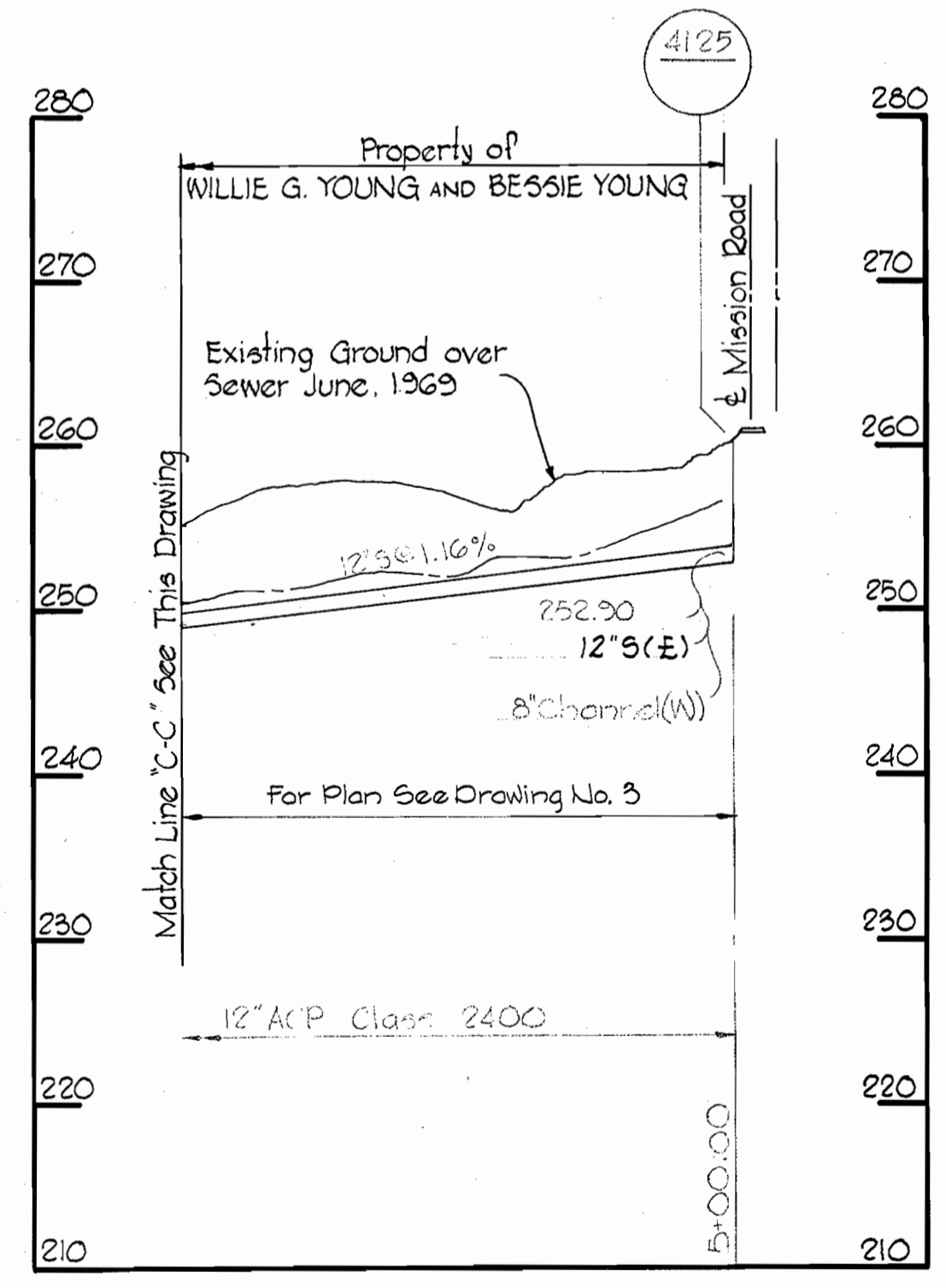
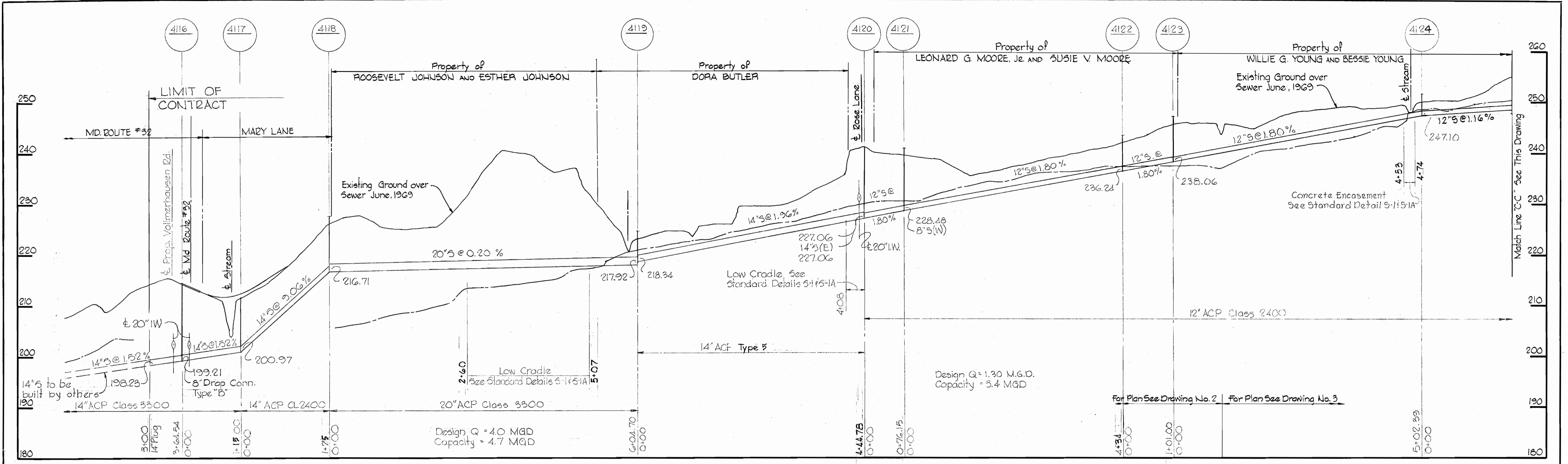
PROFILE AND DETAILS OF
INDUSTRIAL WASTE LINES

GUILFORD INTERCEPTOR SECTION 3
GENERAL ELECTRIC INDUSTRIAL WASTE LINE
SECTION 3

WS 322-S/10

W. O. 6272-2

Aug 23, 1971



Kenneth A. McCord

PART 'A'
Contract No. 322-S

DRAWING NO. 11 OF 13
SCALE H:V = 100'
V:1"=10'

AS BUILT Aug. 23, 1971

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

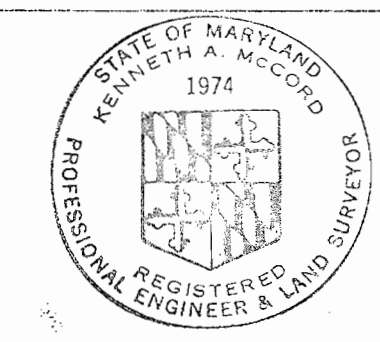
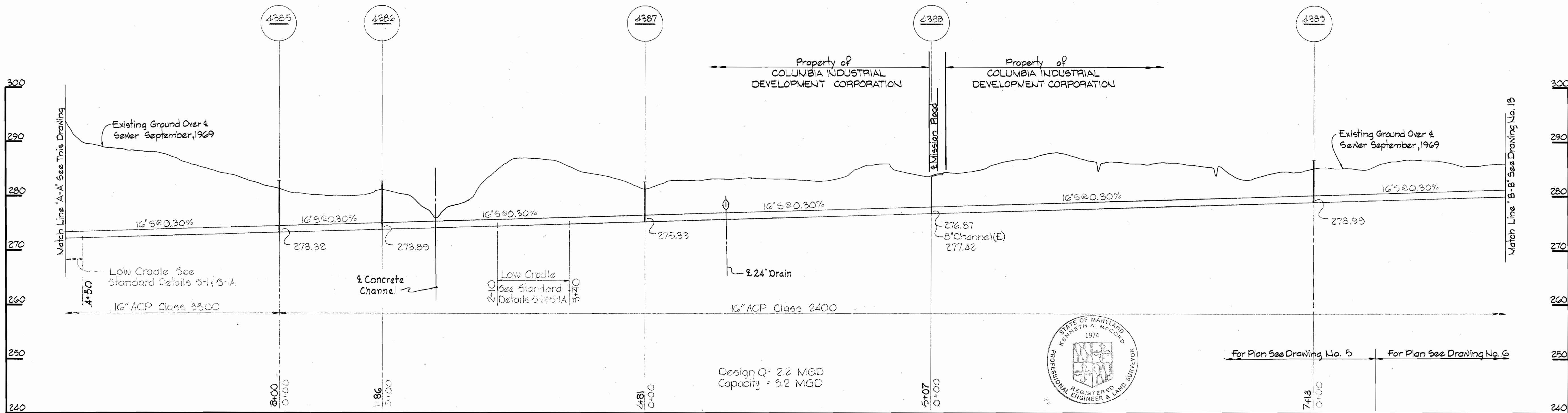
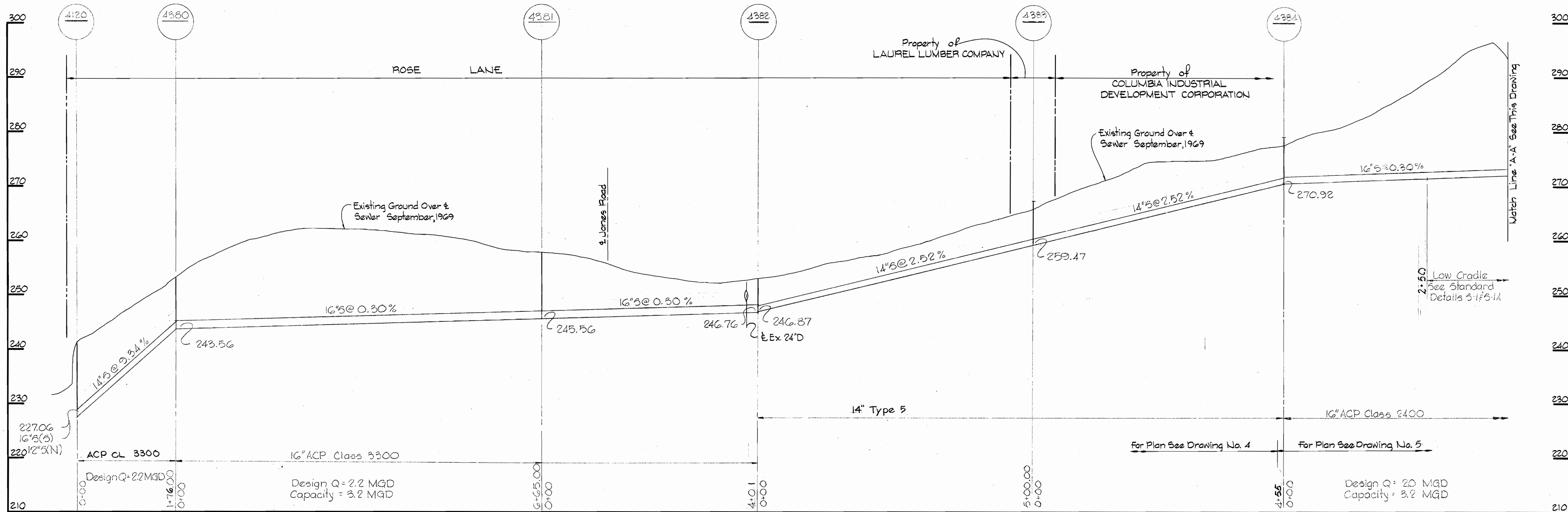
DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
DATE 3-11-70
W. O. Pulver
CHIEF - BUREAU OF WATER AND SEWER

CONTRACT NO. 322-S

PROFILES OF
SEWER MAINS

GUILFORD INTERCEPTOR SECTION 3
GENERAL ELECTRIC INDUSTRIAL WASTE LINE
SECTION 3

WS 322-S/11



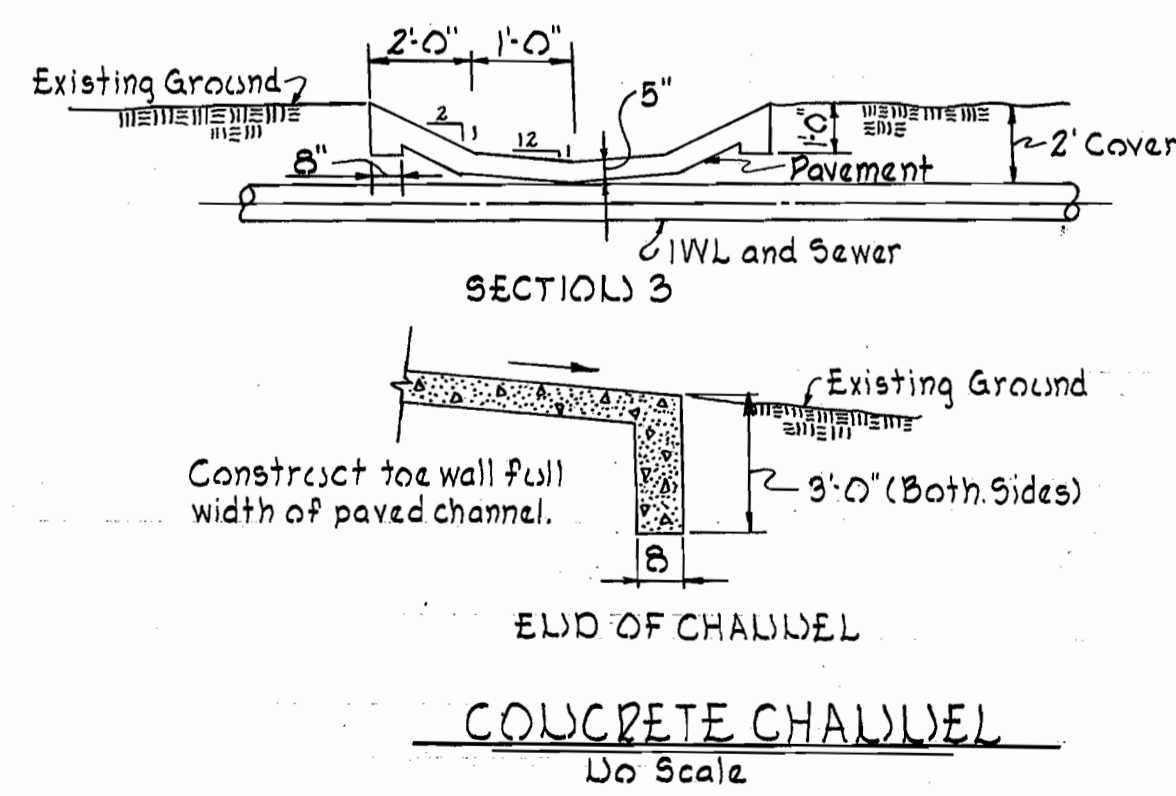
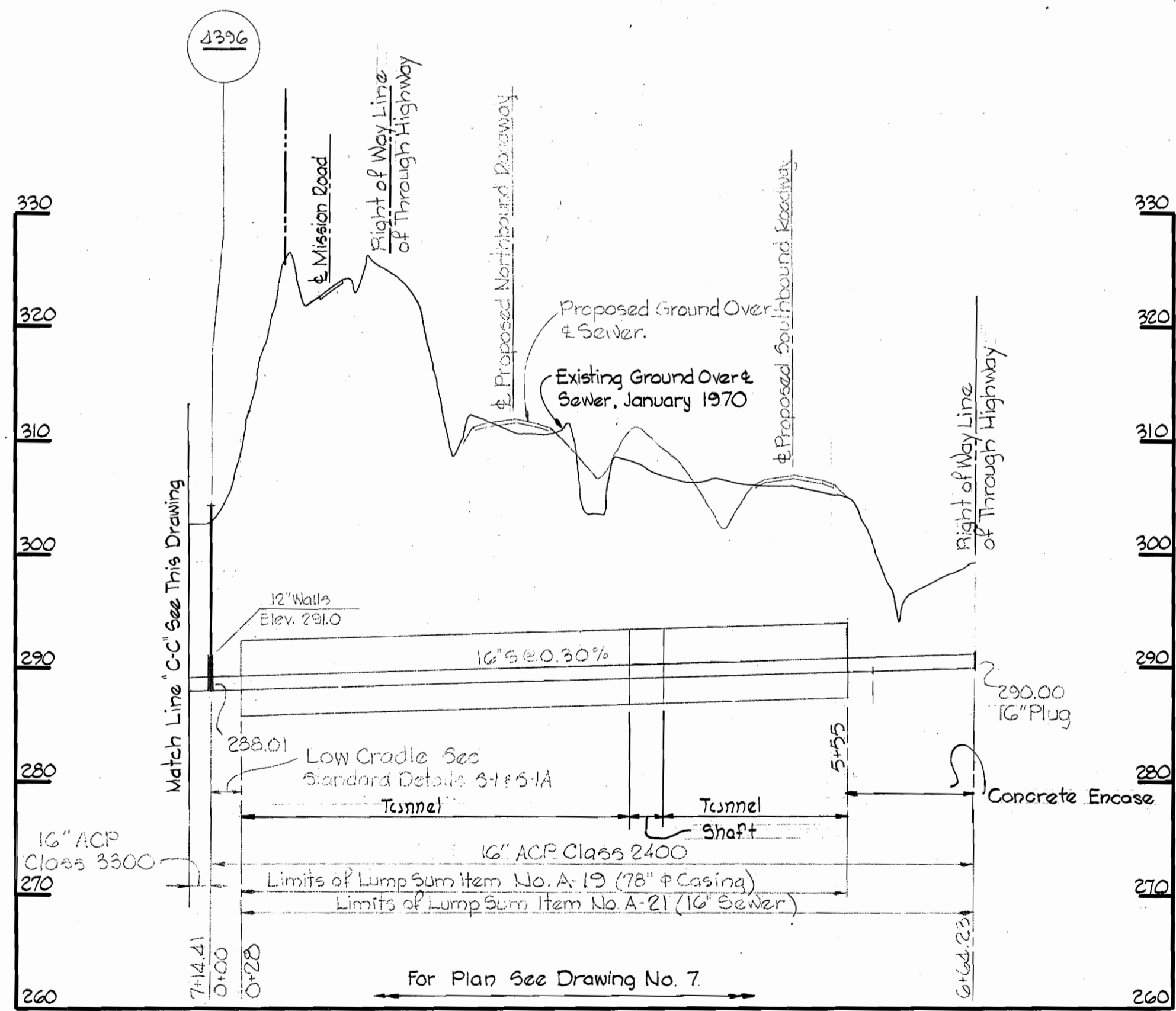
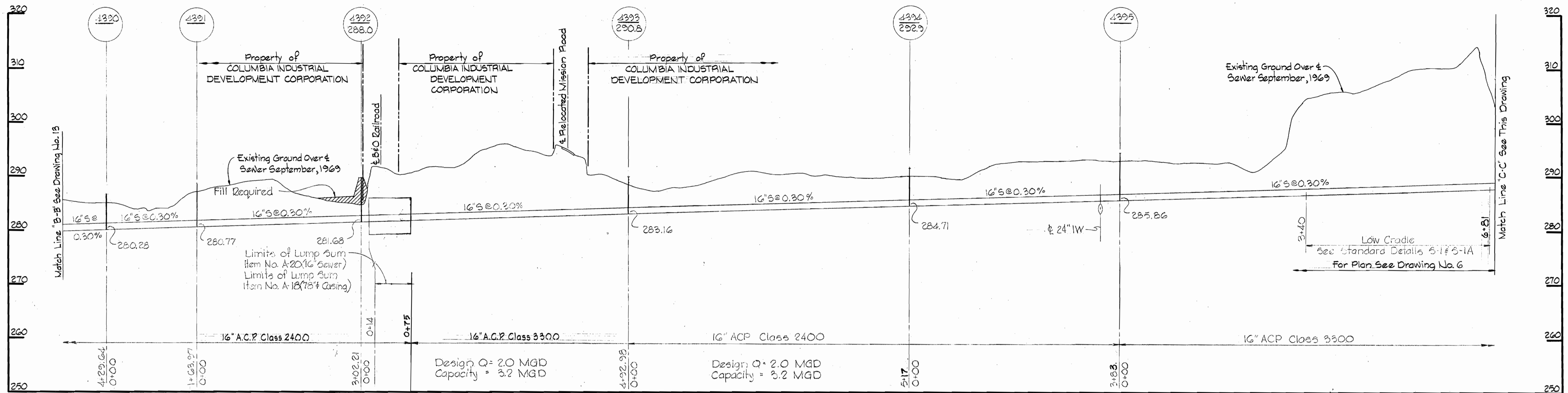
Kenneth A. McCord

WHITMAN, REQUARDT & ASSOCIATES ENGINEERS 1304 ST. PAUL ST. BALTIMORE, MARYLAND	DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND 3-11-70 <i>W. O. Falwell</i> CHIEF-BUREAU OF WATER AND SEWER	CONTRACT NO. 322-S	PROFILES OF SEWER MAINS	GUILFORD INTERCEPTOR SECTION 3 GENERAL ELECTRIC INDUSTRIAL WASTE LINE SECTION 3	PART 'A' Contract No. 322-5
					DRAWING NO. 12 OF 13

W. O. 6185-2

AS BUILT Aug 23, 1971

WS 322-S/12



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PART 'A'
Contract No. 322-5

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

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
3-11-70
DATE
W. O. Albert
CHIEF - BUREAU OF WATER AND SEWER

CONTRACT NO. 322-S

PROFILES OF
SEWER MAINS

GUILFORD INTERCEPTOR SECTION 3
GENERAL ELECTRIC INDUSTRIAL WASTE LINE
SECTION 3

DRAWING
NO. 13
OF 13
SCALE
H:1"=100'
V:1"=10'

WS 322-S/13

USPC-11-41

USPC-11-41