

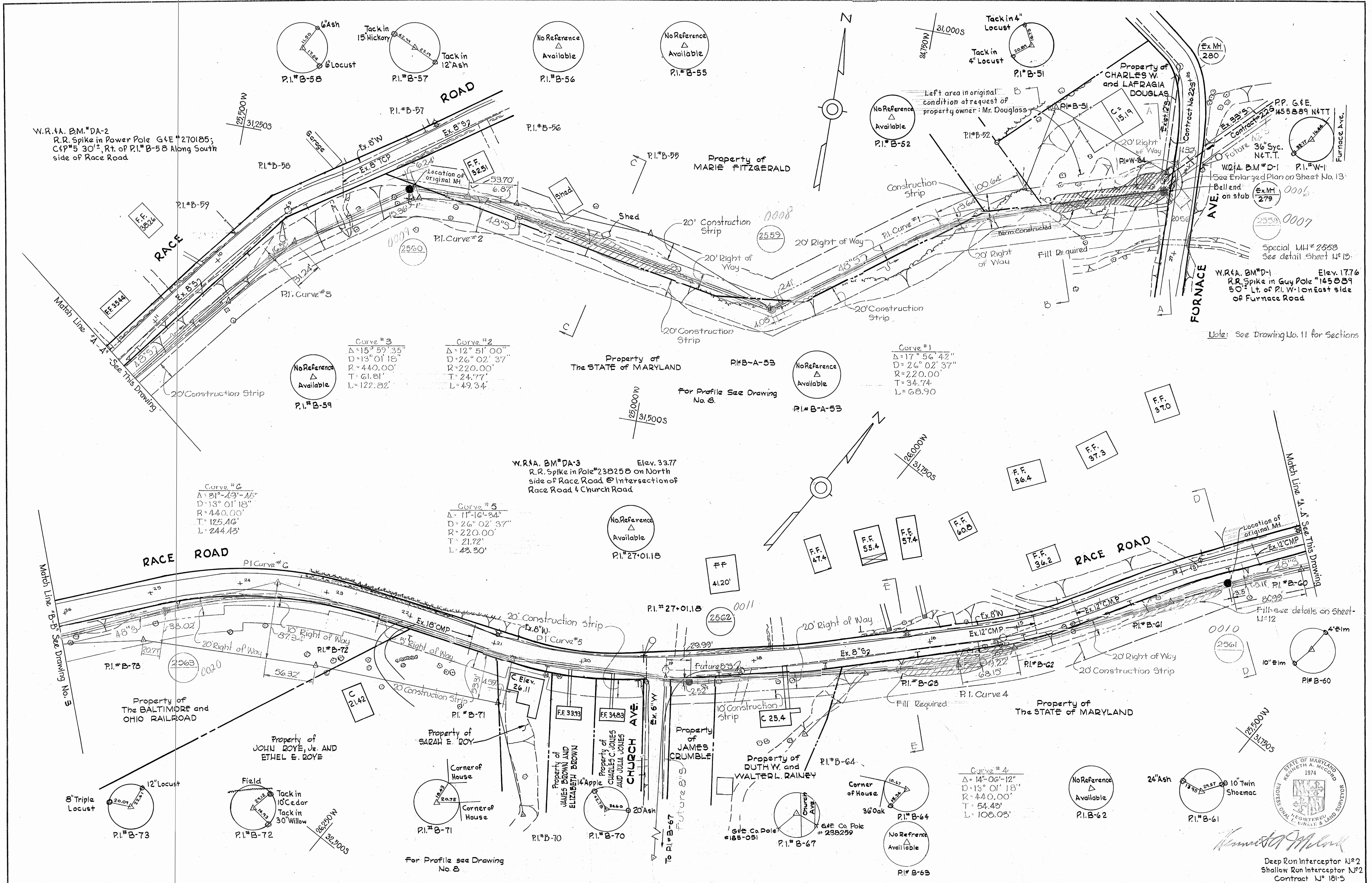
CONTRACT 181-S
DEEP RUN INTERCEPTOR-SECTION NO. 2
SHALLOW RUN INTERCEPTOR-SECTION NO. 2
HOWARD COUNTY METROPOLITAN COMMISSION
ELLICOTT CITY, MARYLAND

AS BUILT
 STAKEOUT IJ.F.B.# 4799
 DIARY IJ.F.B.# 4992 14833

Deep Run Interceptor - Section No. 2
 Shallow Run Interceptor - Section No. 2
 Contract No. 181-S

WHITMAN, REQUARDT & ASSOCIATES ENGINEERS 1304 ST. PAUL ST. BALTIMORE, MARYLAND	HOWARD COUNTY METROPOLITAN COMMISSION DATE <u>4-29-69</u> <i>W. O. Palmbro</i> CHIEF ENGINEER	CONTRACT NO. <u>181-S</u>	LOCATION MAP	DEEP RUN INTERCEPTOR-SECTION NO. 2 SHALLOW RUN INTERCEPTOR-SECTION NO. 2	DRAWING NO. <u>1</u> OF <u>13</u>	SCALE AS SHOWN
---	---	---------------------------	--------------	---	--------------------------------------	----------------

WS 181-S/1



Note: See Drawing No. 11 for Sections



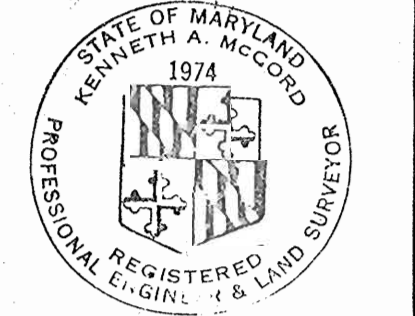
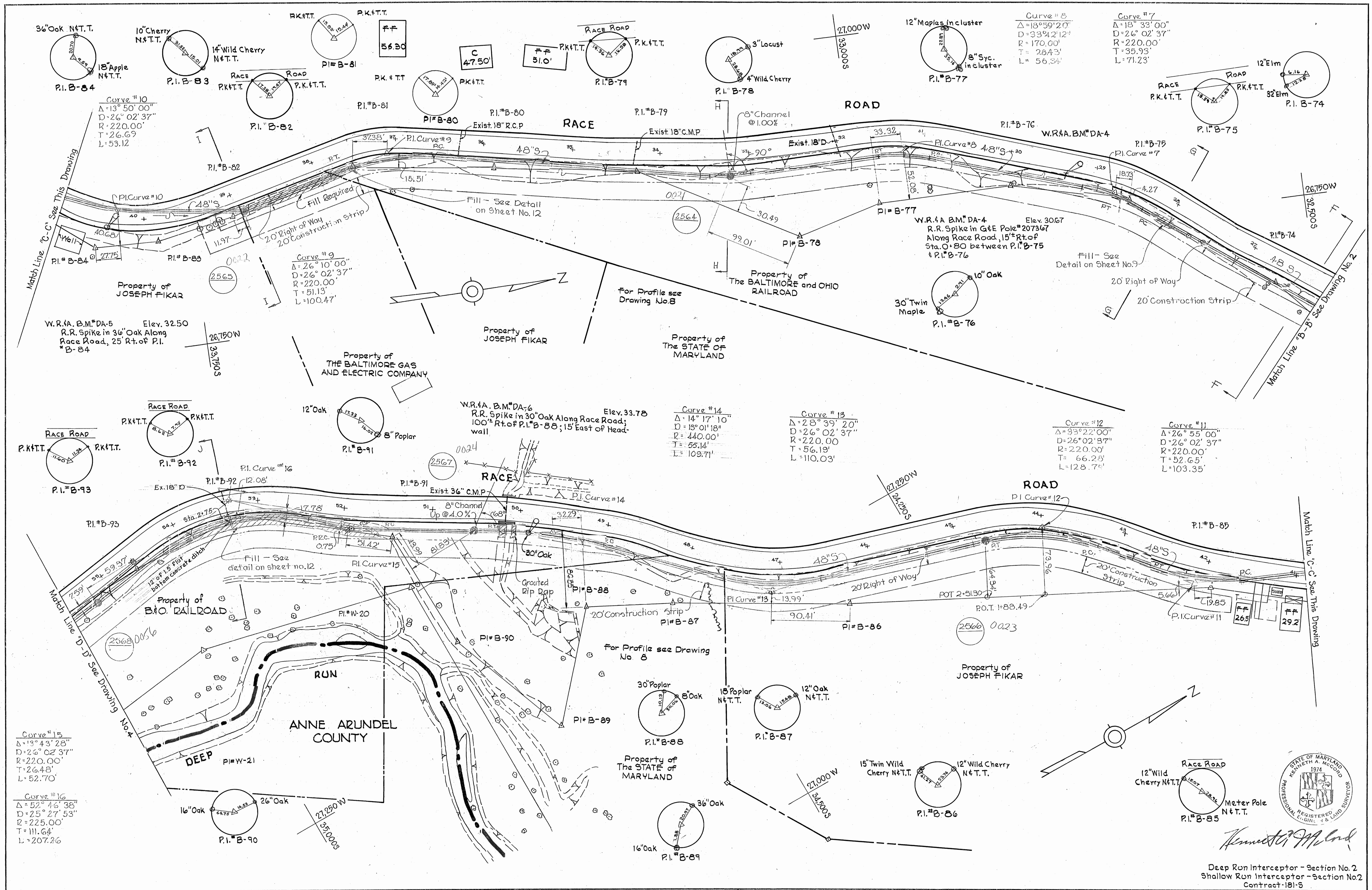
Deep Run Interceptor N#2
Shallow Run Interceptor N#2
Contract N# 181-5

WHITMAN, REQUARDT & ASSOCIATES ENGINEERS 1304 ST. PAUL ST. BALTIMORE, MARYLAND	HOWARD COUNTY METROPOLITAN COMMISSION 4-29-69 DATE	CONTRACT NO. 181-S	PLAN OF SEWER MAINS	DEEP RUN INTERCEPTOR-SECTION NO.2 SHALLOW RUN INTERCEPTOR-SECTION NO.2	DRAWING NO. 2 OF 13 SCALE 1" = 50' 33 SW 18 32 SW 18 31 SW 17
---	--	--------------------	------------------------	---	---

W. O. 5639-2

33 SW 18
32 SW 18
31 SW 17
MARCH 28, 1972 F.B.#2001, 3995

WS 181-S/2



Kenneth A. McCord
 Meter Pole N&T.T.
 P.I. #B-85

Deep Run Interceptor - Section No. 2
 Shallow Run Interceptor - Section No. 2
 Contract 181-S

WHITMAN, REQUARDT & ASSOCIATES ENGINEERS 1304 ST. PAUL ST. BALTIMORE, MARYLAND	HOWARD COUNTY METROPOLITAN COMMISSION 4-29-69 <i>W O Libert</i> DATE CHIEF ENGINEER	CONTRACT NO. 181-S	PLAN OF SEWER MAINS	DEEP RUN INTERCEPTOR - SECTION NO. 2 SHALLOW RUN INTERCEPTOR - SECTION NO. 2	DRAWING NO. 3 OF 13 SCALE 1" = 50' <small>33 SW 18 34 SW 18 35 SW 18</small>
---	---	--------------------	------------------------	---	--

W. O. 5839-2

MARCH 28, 1972 F.B. 2001, 3993, 5884, 3874

WS 181-S/3

Curve #	No.	Date	Revision
Curve #22	1	12-10-69	Added Manhole #2573

Curve #21
 $\Delta = 22^\circ 16' 40''$
 $D = 26^\circ 02' 37''$
 $R = 220.00'$
 $T = 41.32'$
 $L = 85.54'$

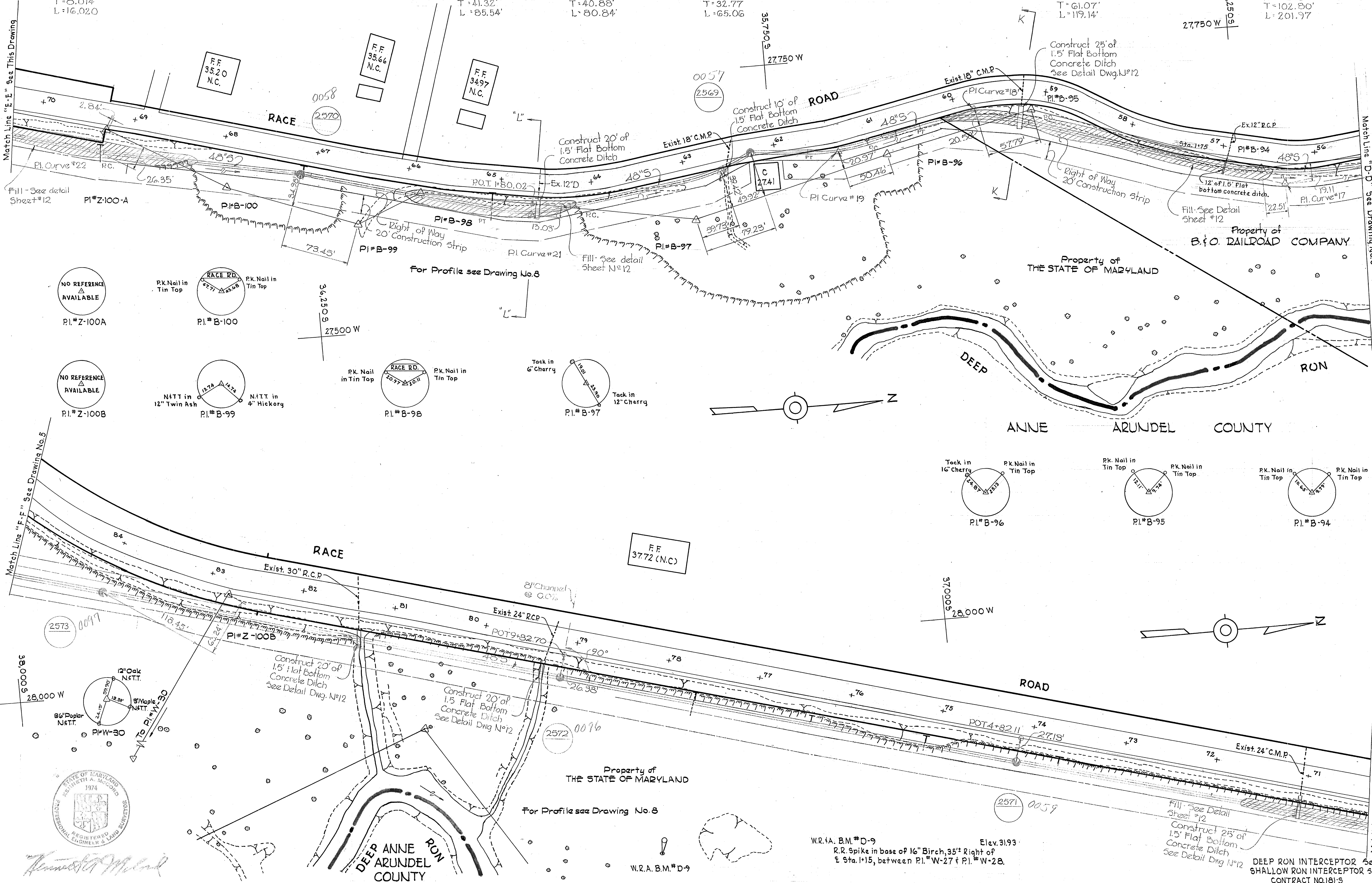
Curve #20
 $\Delta = 21^\circ 03' 10''$
 $D = 26^\circ 02' 37''$
 $R = 220.00'$
 $T = 40.88'$
 $L = 80.84'$

Curve #19
 $\Delta = 16^\circ 56' 40''$
 $D = 26^\circ 02' 37''$
 $R = 220.00'$
 $T = 32.77'$
 $L = 65.06'$

W.R.I.A. B.M. #DA-7
 R.R. Spike in 15" Willow along Race Road
 20' Right of P.I. #B-96
 Elev. 30.05

Curve #18
 $\Delta = 31^\circ 01' 40''$
 $D = 26^\circ 02' 37''$
 $R = 220.00'$
 $T = 61.07'$
 $L = 119.14'$

Curve #17
 $\Delta = 26^\circ 18' 00''$
 $D = 13^\circ 01' 18''$
 $R = 420.00'$
 $T = 102.80'$
 $L = 201.97'$



NO REFERENCE AVAILABLE
 PI#Z-100A

PK Nail in Tin Top
 RACE RD.
 PI#B-100

NO REFERENCE AVAILABLE
 PI#Z-100B

N.I.T.T. in 12" Twin Ash
 PI#B-99
 N.I.T.T. in 4" Hickory

PK Nail in Tin Top
 RACE RD.
 PI#B-98
 PK Nail in Tin Top

Tack in 6" Cherry
 PI#B-97
 Tack in 12" Cherry

Tack in 16" Cherry
 PI#B-96
 PK Nail in Tin Top

PK Nail in Tin Top
 PI#B-95
 PK Nail in Tin Top

PK Nail in Tin Top
 PI#B-94
 PK Nail in Tin Top



Whitman, Requardt & Associates

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

HOWARD COUNTY METROPOLITAN COMMISSION
 4-29-69 *Wolbert*
 DATE CHIEF ENGINEER

CONTRACT NO. 181-S

PLAN OF SEWER MAINS

DEEP RUN INTERCEPTOR-SECTION NO. 2
 SHALLOW RUN INTERCEPTOR-SECTION NO. 2

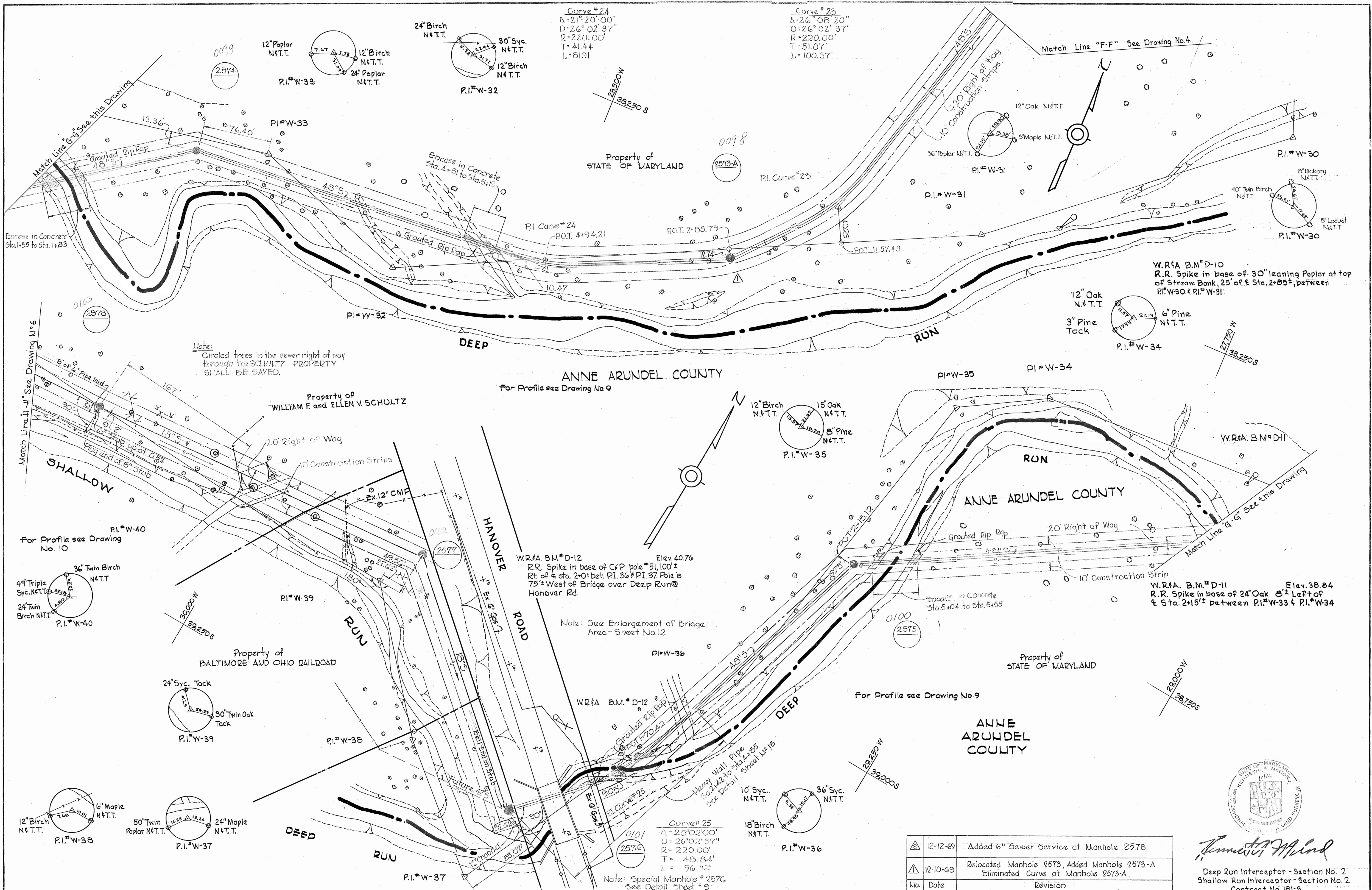
DRAWING NO. 4 OF 13
 SCALE 1" = 50'

W. O. 5839-2

MARCH 28, 1972

F.B. # 3883, 3993, 3884 & 4360

WS 181-S/4



Note:
Circled trees in the sewer right of way
through the SCHULTZ PROPERTY
SHALL BE SAVED.

ANNE ARUNDEL COUNTY
For Profile see Drawing No. 9

ANNE ARUNDEL COUNTY

ANNE ARUNDEL COUNTY

W.R.&A. B.M.*D-12
Elev. 40.76
R.R. Spike in base of C&P pole #51,100±
Rt. of Sta. 2+0± bet. P.I. 36 & P.I. 37 Pole is
75± West of Bridge over Deep Run @
Hanover Rd.

W.R.&A. B.M.*D-11
Elev. 38.84
R.R. Spike in base of 24" Oak 8± Left of
Sta. 2+15± between P.I.*W-33 & P.I.*W-34

Note: See Enlargement of Bridge
Area - Sheet No. 12

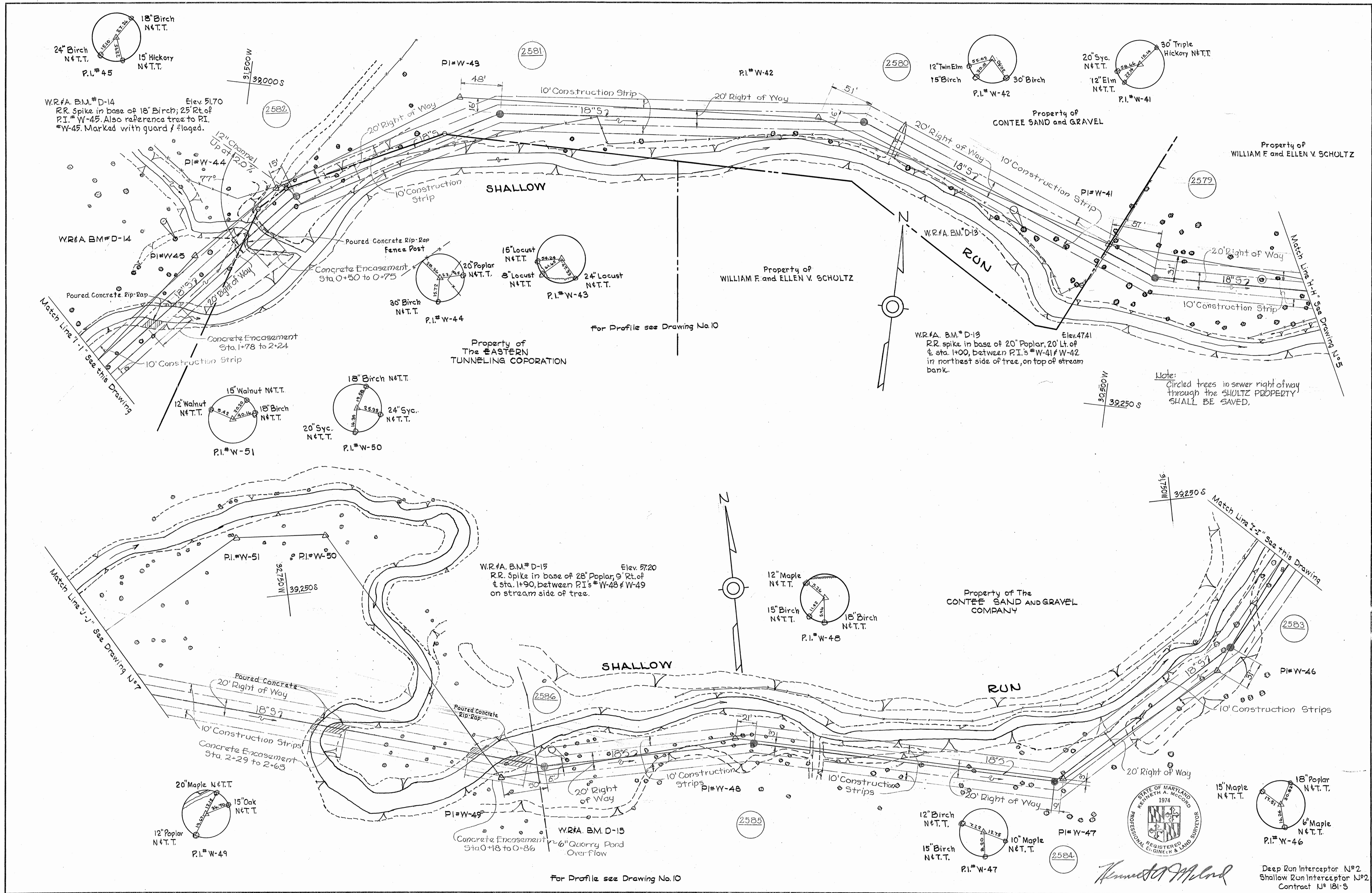
Note: Special Manhole # 2576
See Detail Sheet # 9

No.	Date	Revision
12-12-69		Added 6" Sewer Service at Manhole 2578
12-10-69		Relocated Manhole 2573, Added Manhole 2573-A Eliminated Curve at Manhole 2573-A



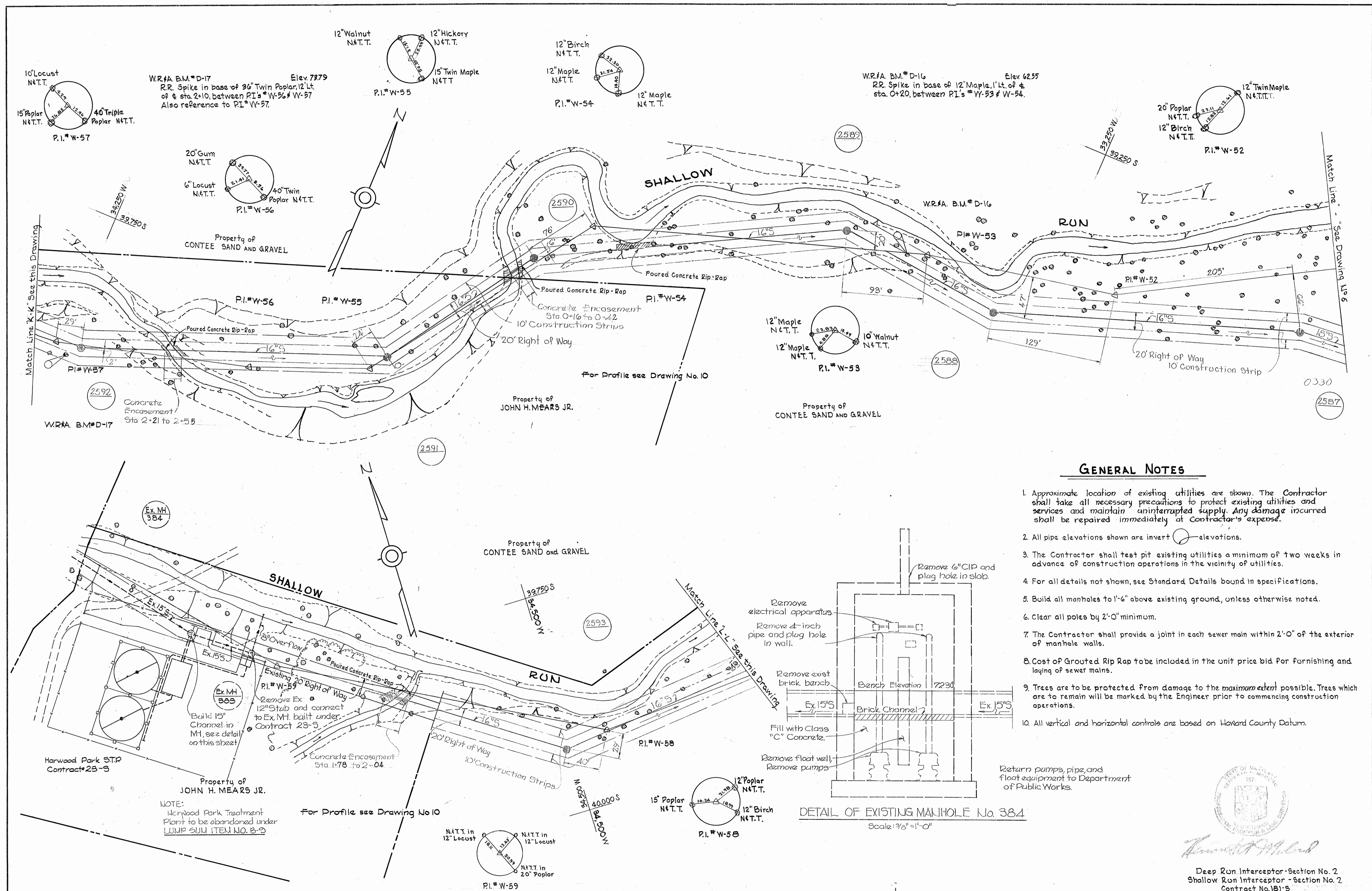
James H. Wood
Deep Run Interceptor - Section No. 2
Shallow Run Interceptor - Section No. 2
Contract No. 181-S

WHITMAN, REQUARDT & ASSOCIATES ENGINEERS 1304 ST. PAUL ST. BALTIMORE, MARYLAND	HOWARD COUNTY METROPOLITAN COMMISSION 4-29-69 <i>W. O. Schubert</i> DATE CHIEF ENGINEER	CONTRACT NO. 181-S	PLAN OF SEWER MAINS	DEEP RUN INTERCEPTOR - SECTION NO. 2 SHALLOW RUN INTERCEPTOR - SECTION NO. 2	DRAWING NO. 5 OF 13 SCALE 1" = 50'
---	---	--------------------	------------------------	---	---------------------------------------



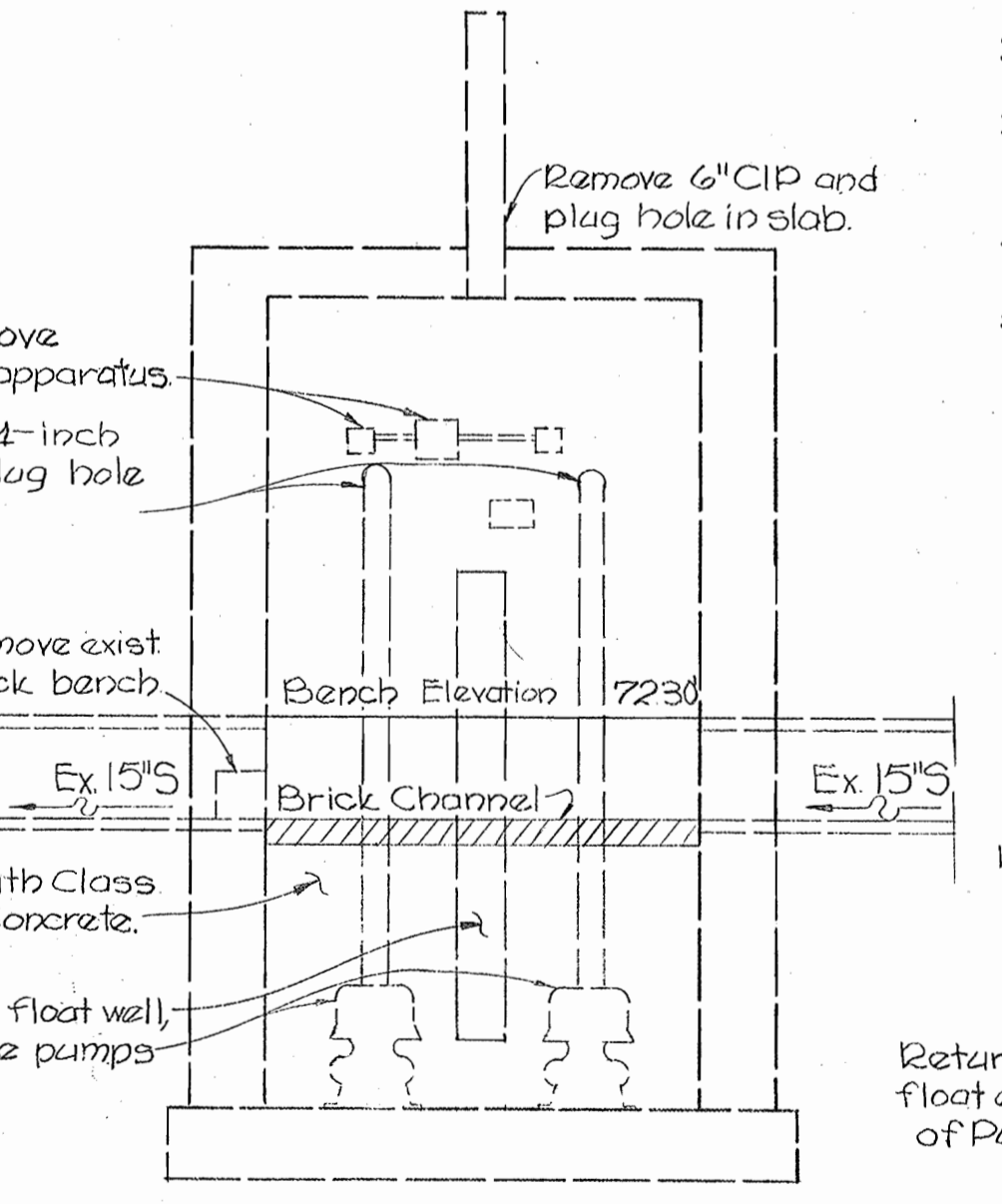
WHITMAN, REQUARDT & ASSOCIATES ENGINEERS 1304 ST. PAUL ST. BALTIMORE, MARYLAND	HOWARD COUNTY METROPOLITAN COMMISSION 4-29-69 <i>W O Gilbert</i> DATE CHIEF ENGINEER	CONTRACT NO. 181-S	PLAN OF SEWER MAINS	DEEP RUN INTERCEPTOR-SECTION NO.2 SHALLOW RUN INTERCEPTOR-SECTION NO.2	DRAWING NO. 6 OF 13 SCALE 1"=50' AS BUILT
---	--	--------------------	------------------------	---	---

WS 181-S/6



GENERAL NOTES

1. Approximate location of existing utilities are shown. The Contractor shall take all necessary precautions to protect existing utilities and services and maintain uninterrupted supply. Any damage incurred shall be repaired immediately at Contractor's expense.
2. All pipe elevations shown are invert elevations.
3. The Contractor shall test pit existing utilities a minimum of two weeks in advance of construction operations in the vicinity of utilities.
4. For all details not shown, see Standard Details bound in specifications.
5. Build all manholes to 1'-6" above existing ground, unless otherwise noted.
6. Clear all poles by 2'-0" minimum.
7. The Contractor shall provide a joint in each sewer main within 2'-0" of the exterior of manhole walls.
8. Cost of Grouted Rip Rap to be included in the unit price bid for furnishing and laying of sewer mains.
9. Trees are to be protected from damage to the maximum extent possible. Trees which are to remain will be marked by the Engineer prior to commencing construction operations.
10. All vertical and horizontal controls are based on Howard County Datum.

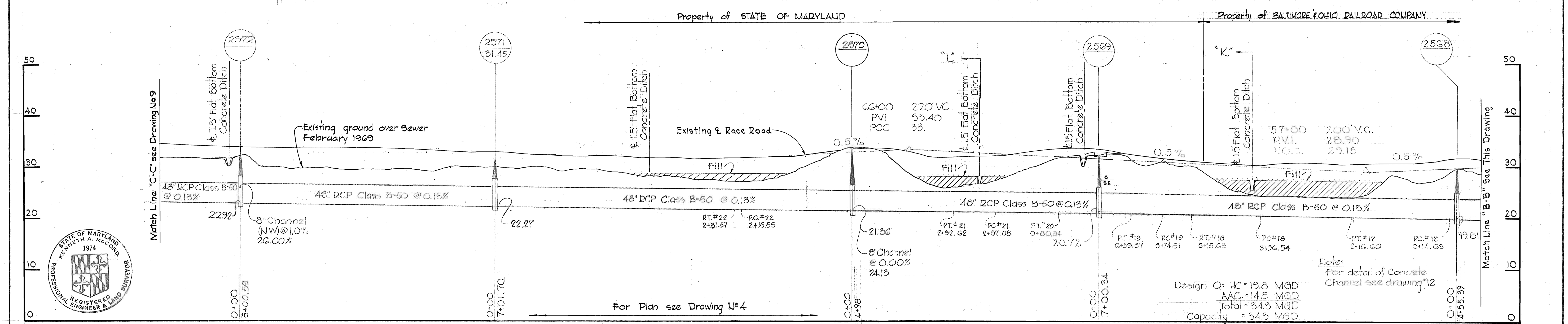
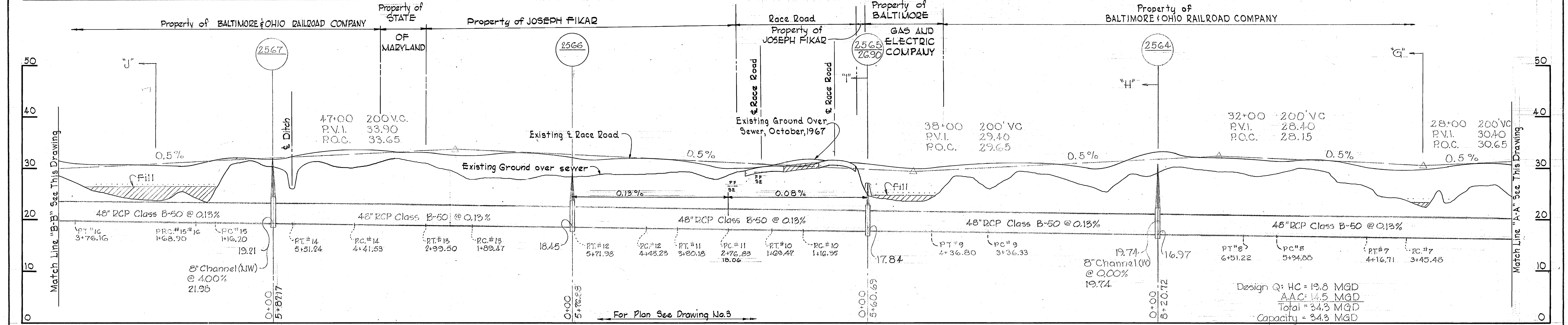
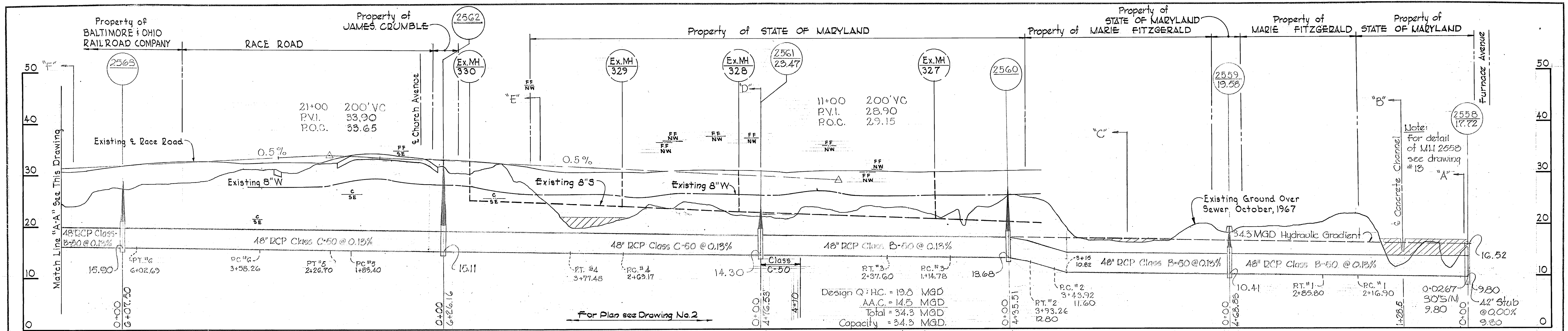


DETAIL OF EXISTING MANHOLE No. 384
Scale: 3/8" = 1'-0"



Deep Run Interceptor - Section No. 2
Shallow Run Interceptor - Section No. 2
Contract No. 181-S

<p>WHITMAN, REQUARDT & ASSOCIATES ENGINEERS 1304 ST. PAUL ST. BALTIMORE, MARYLAND</p>	<p>HOWARD COUNTY METROPOLITAN COMMISSION 4-29-69 DATE W. O. Falbit CHIEF ENGINEER</p>	<p>CONTRACT NO. 181-S</p>	<p>PLAN OF SEWER MAINS</p>	<p>DEEP RUN INTERCEPTOR - SECTION NO. 2 SHALLOW RUN INTERCEPTOR - SECTION NO. 2</p>	<p>DRAWING NO. 7 OF 13 SCALE 1" = 50'</p>
---	---	---------------------------	--------------------------------	---	---



Handwritten signature

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

HOWARD COUNTY METROPOLITAN COMMISSION
 4-29-69
 DATE

Handwritten signature
 CHIEF ENGINEER

CONTRACT NO. 181-S

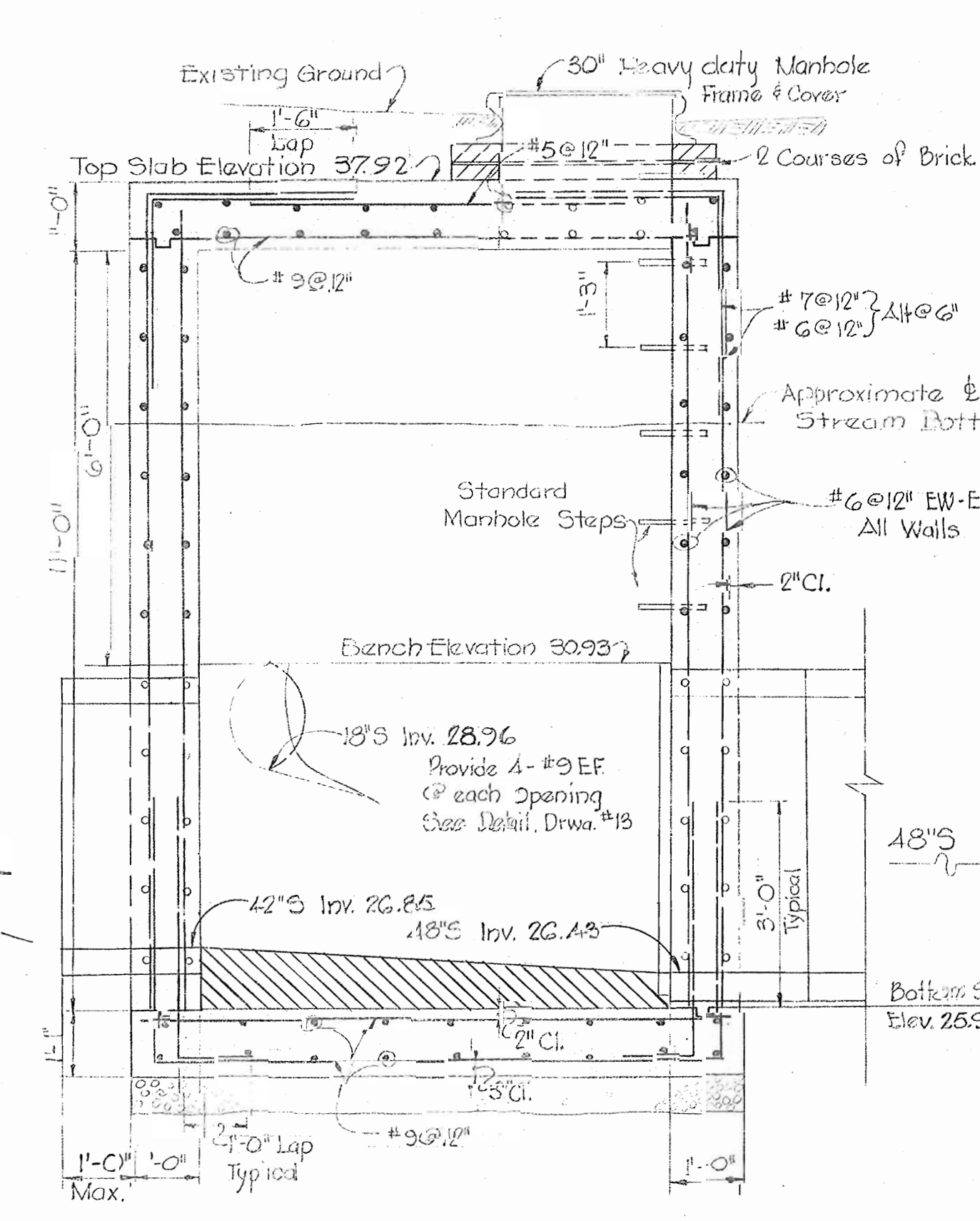
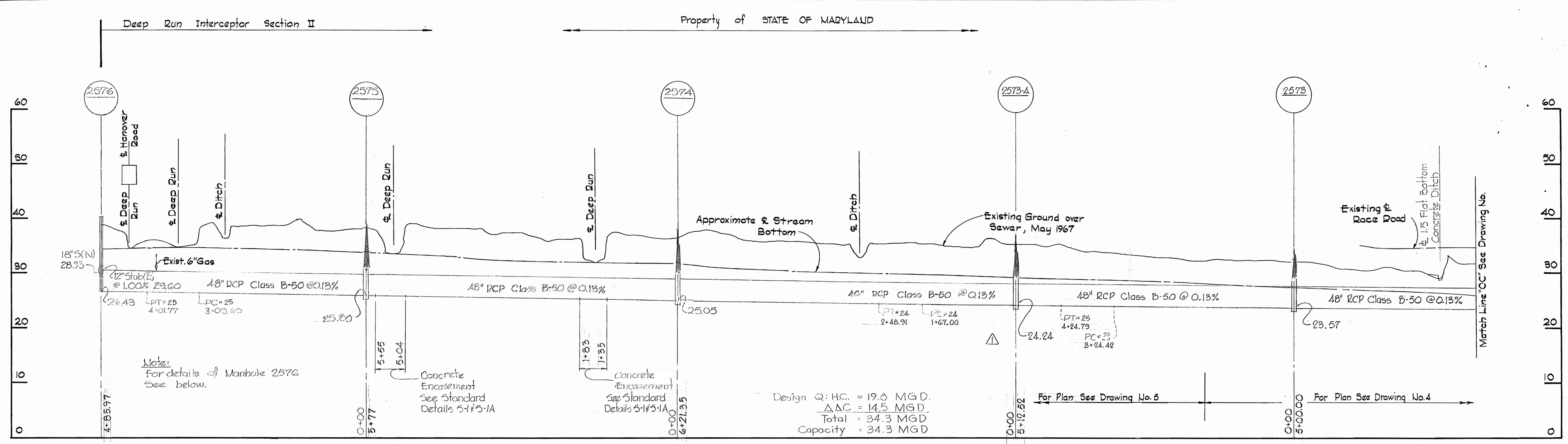
PROFILES OF
 SEWER MAINS

DEEP RUN INTERCEPTOR-SECTION NO.2
 SHALLOW RUN INTERCEPTOR-SECTION NO.2

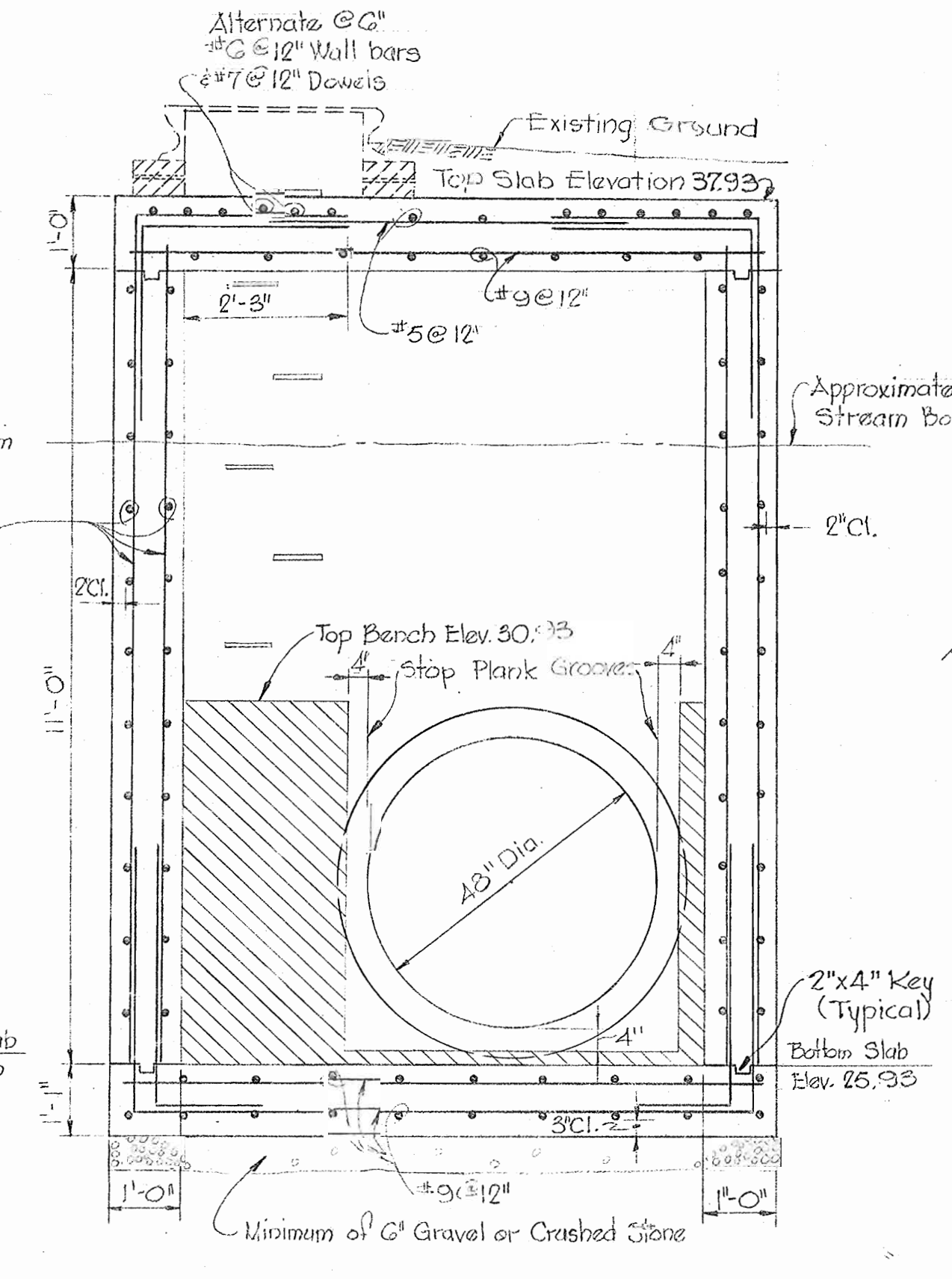
DRAWING NO. 8 OF 13
 SCALE H: 1" = 100' V: 1" = 10'

AS BUILT MARCH 28, 1972

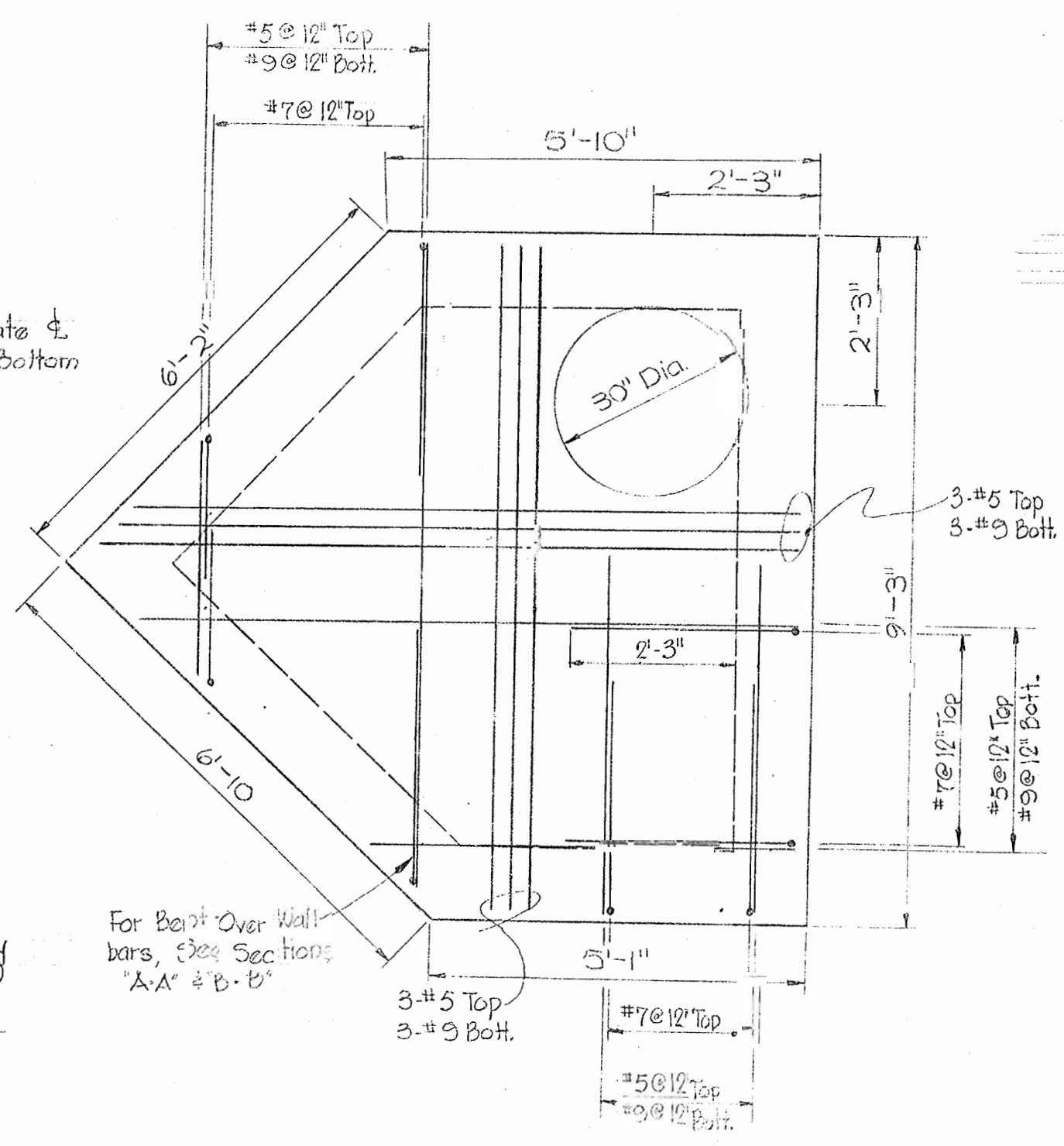
W. O. 5839-2



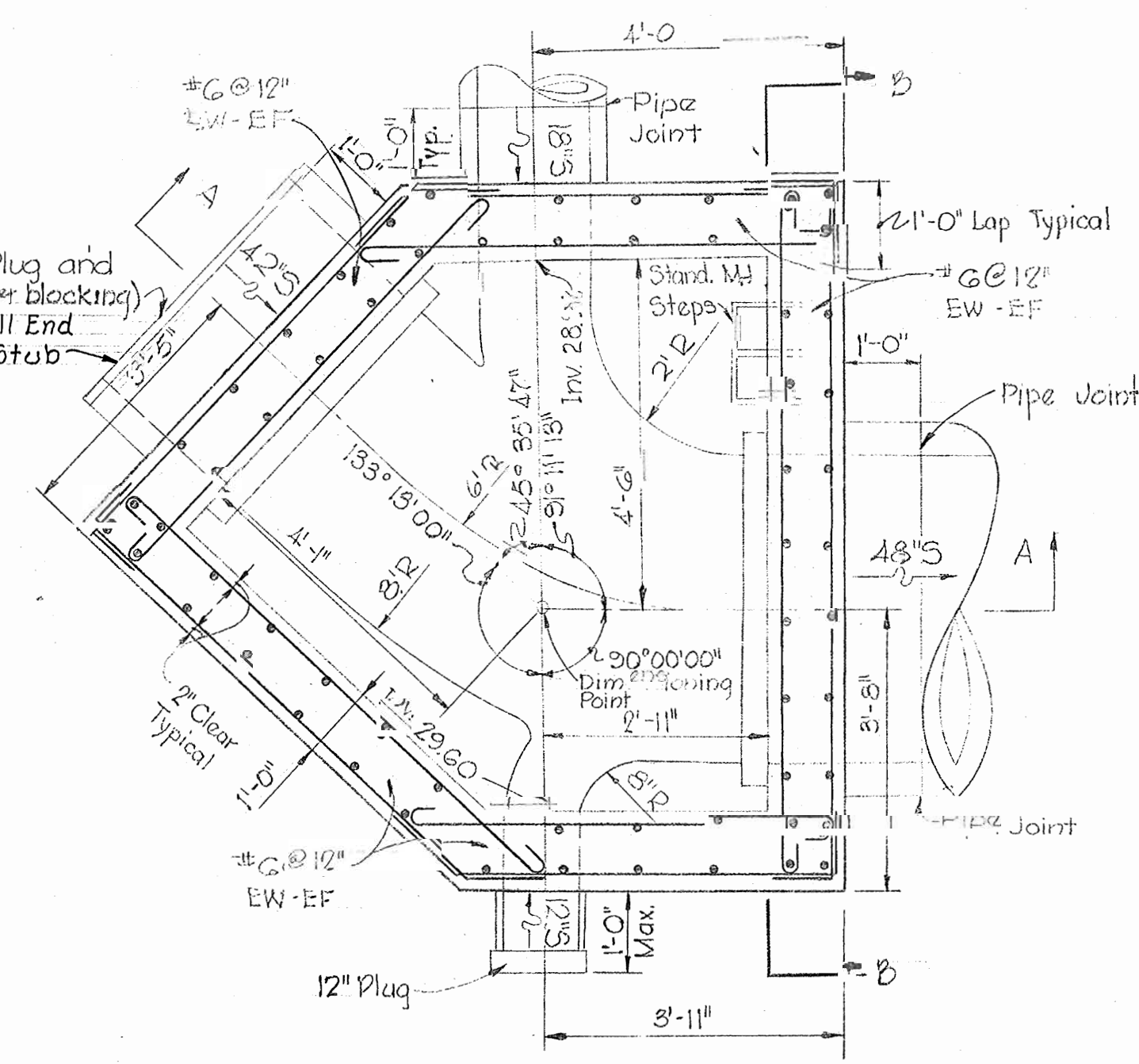
SECTION "A-A"
Scale: 1/2" = 1'-0"



SECTION "E-B"
Scale: 1/2" = 1'-0"



TOP SLAB
Scale: 1/2" = 1'-0"



PLAN
Scale: 1/2" = 1'-0"



Kenneth A. McLeod

MANHOLE NO. 2576

12-10-69	Relocated Manholes 2573, Added Manholes 2573-A
	Eliminated Curve at Manhole 2573-A
	Revision

Deep Run Interceptor Section II
Shallow Run Interceptor Section II
Contract No. 181-S

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

HOWARD COUNTY METROPOLITAN COMMISSION
4-22-69 *W O Pulbert*
DATE CHIEF ENGINEER

CONTRACT NO. 181-S

PROFILE & DETAILS OF
SEWER MAINS

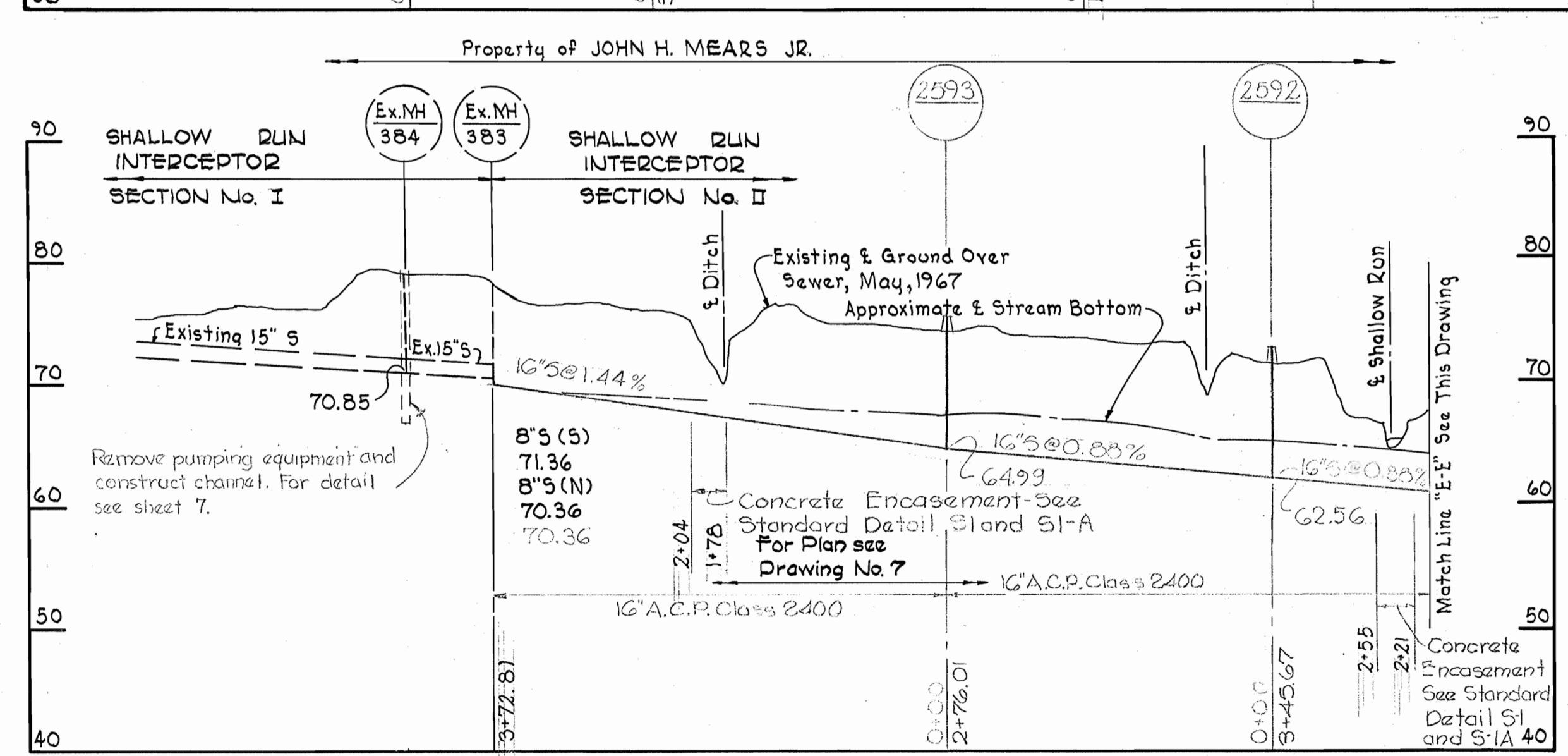
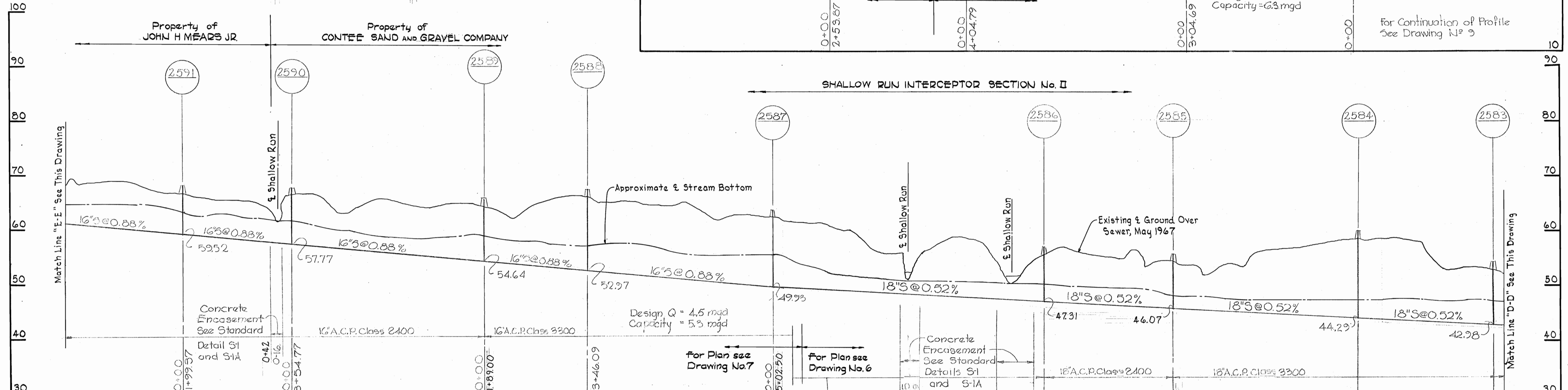
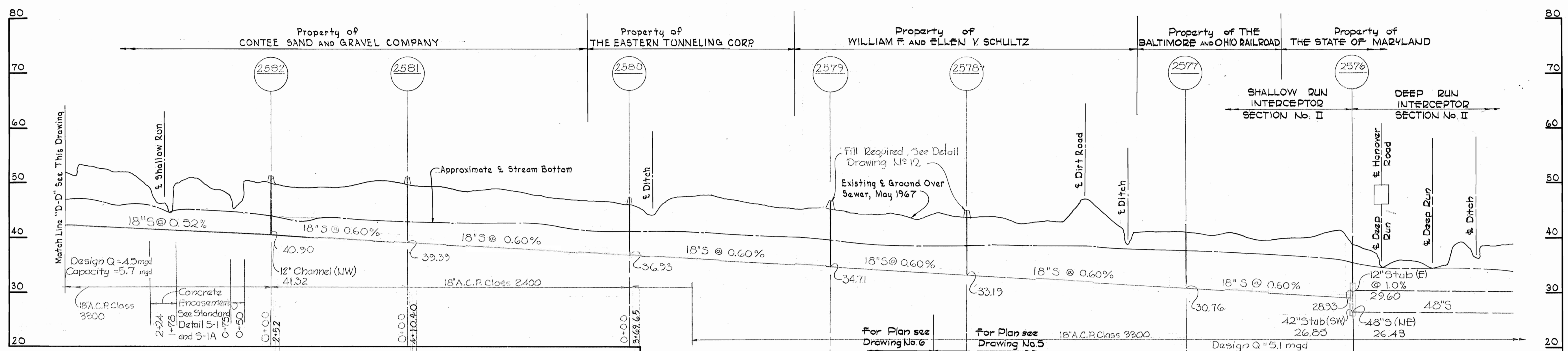
DEEP RUN INTERCEPTOR - SECTION NO.2
SHALLOW RUN INTERCEPTOR - SECTION NO.2

DRAWING NO. 9 OF 13
SCALE AS SHOWN

W. 0.5839-2

MARCH 28, 1972

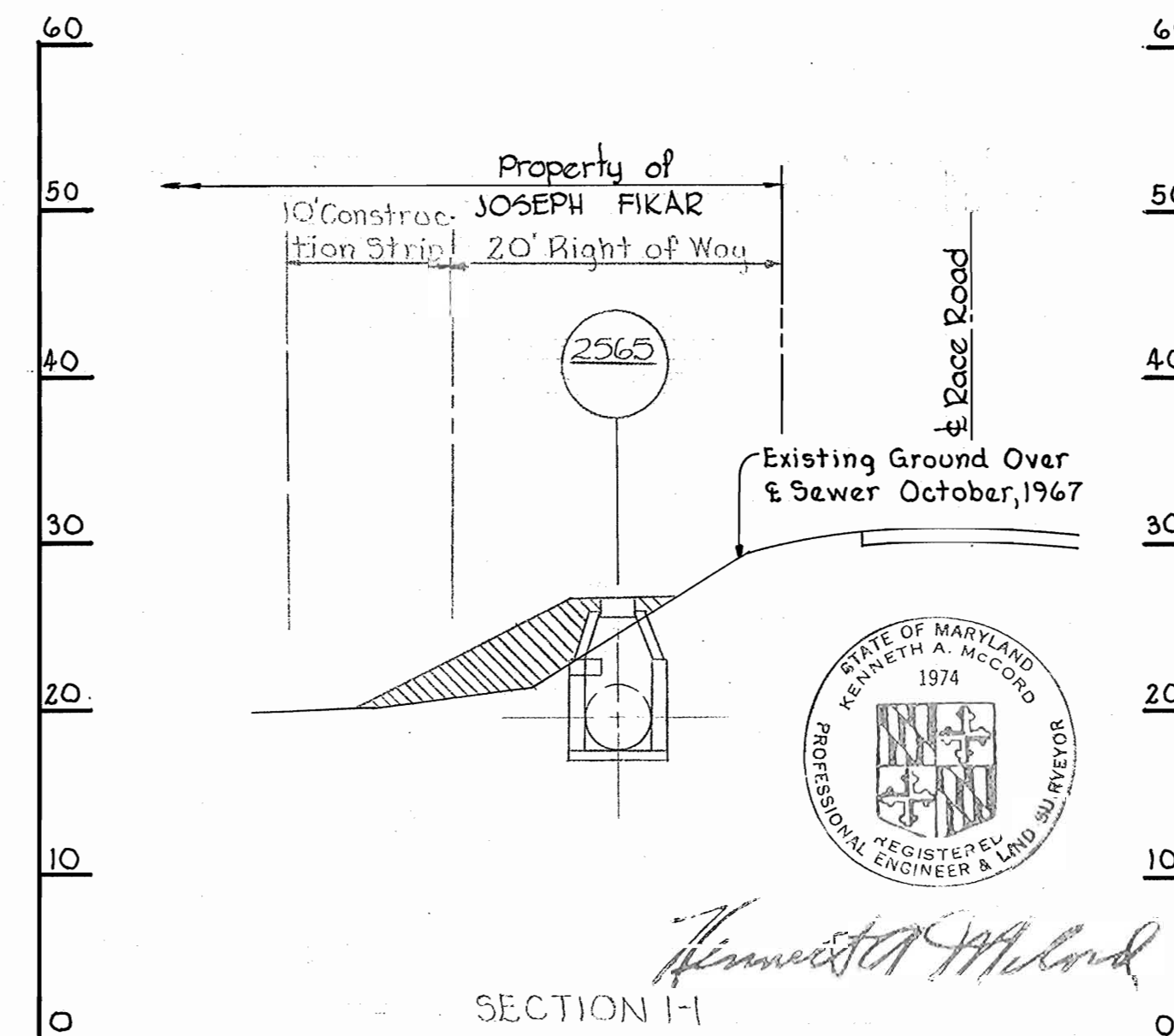
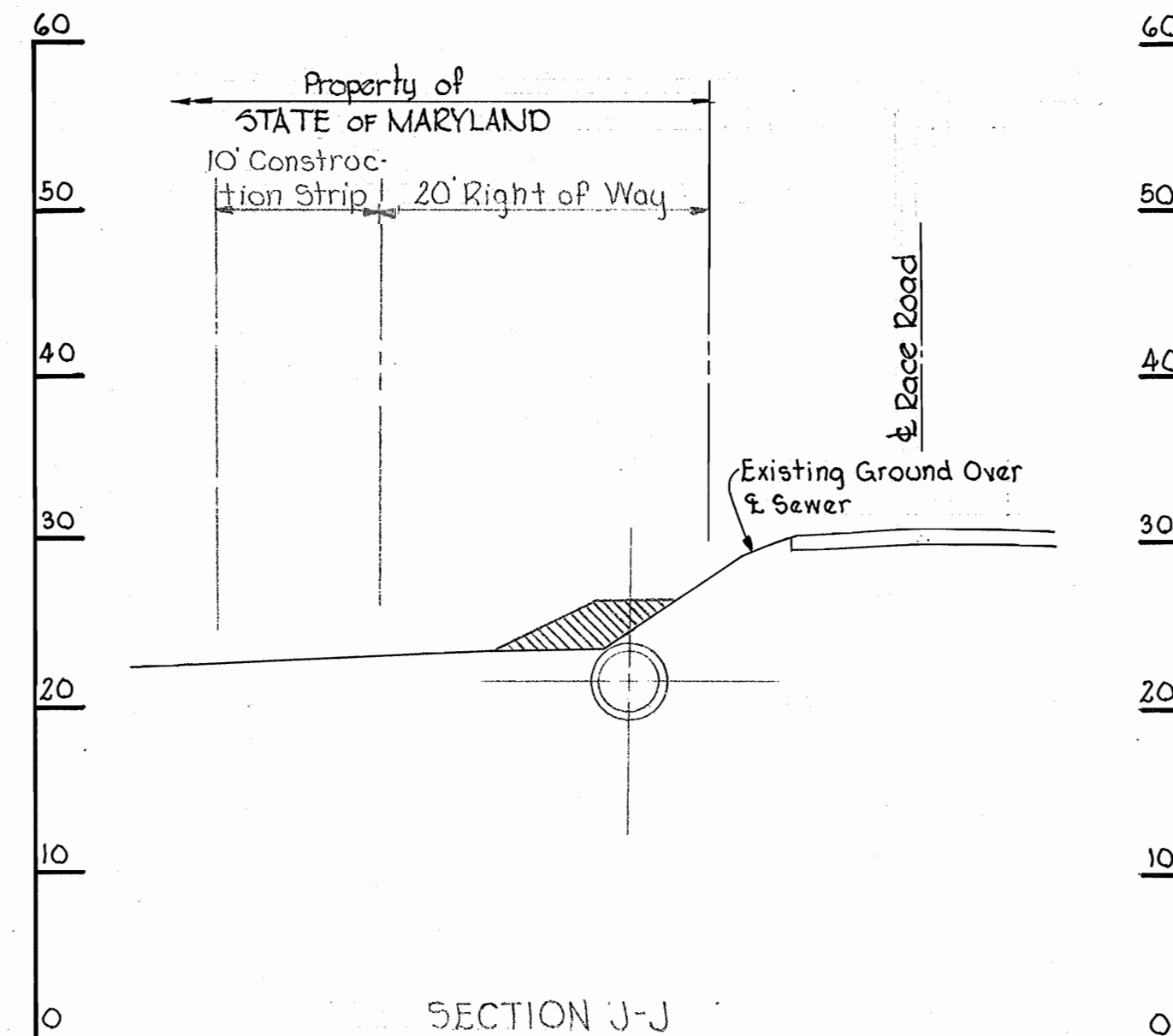
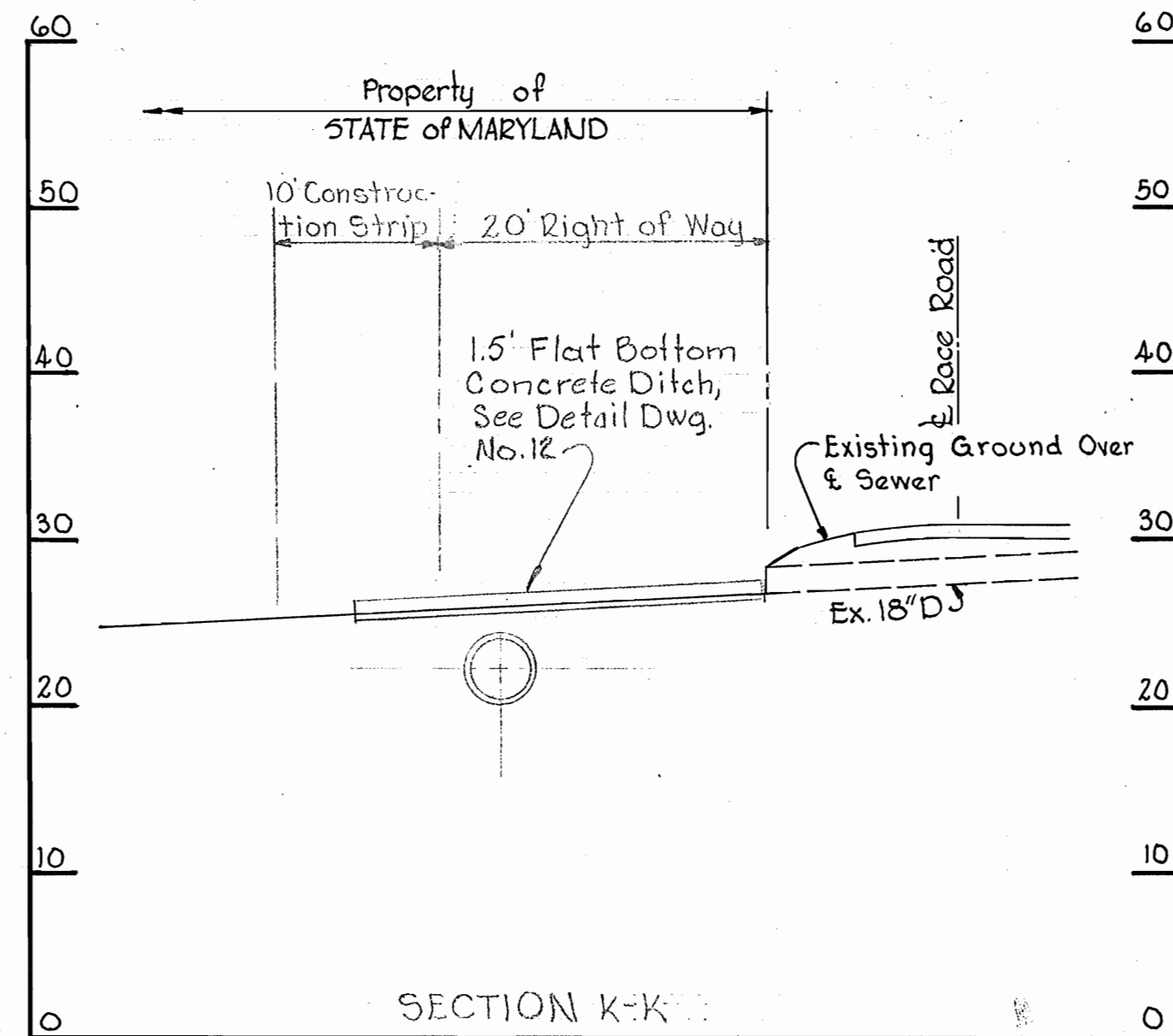
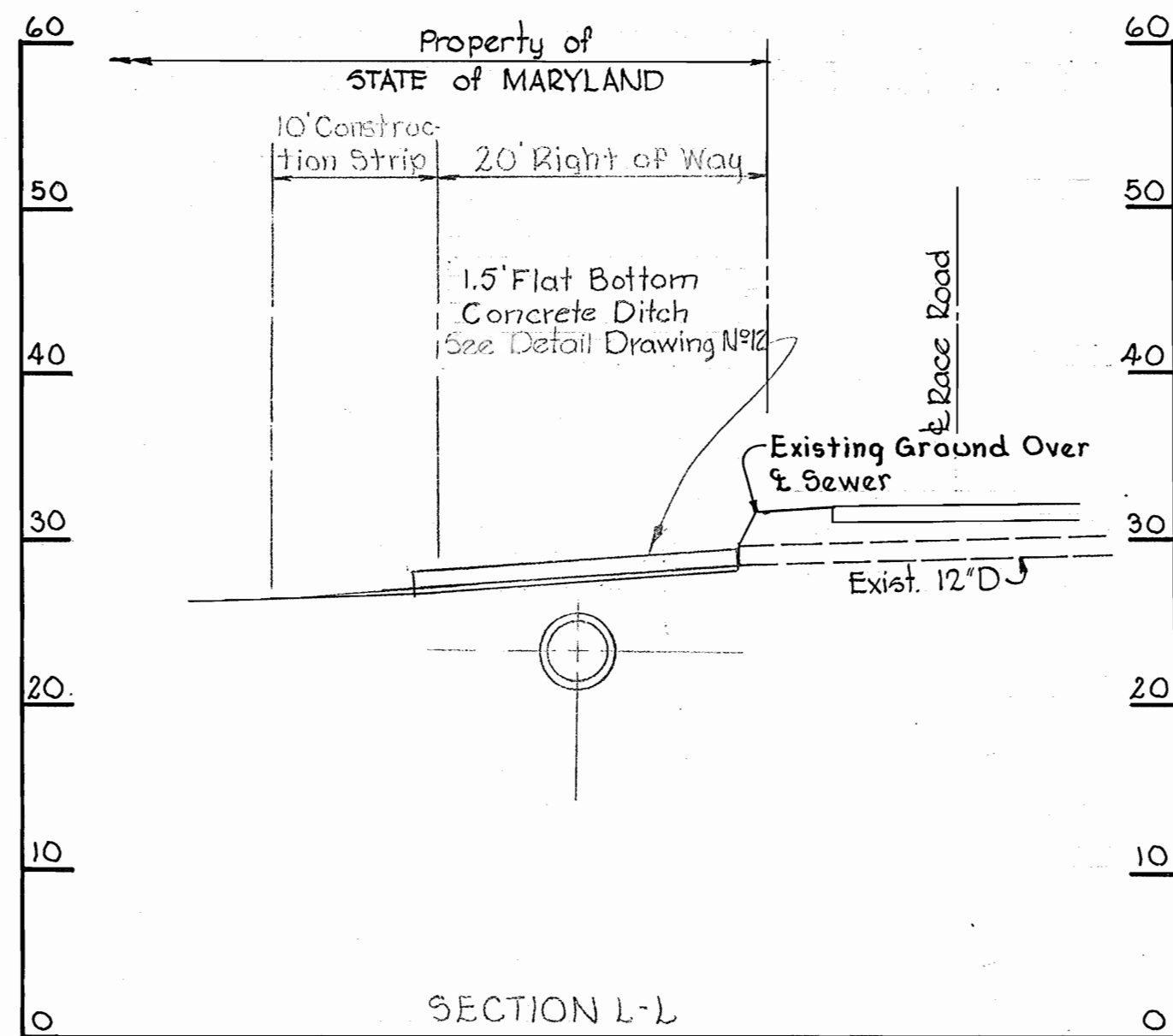
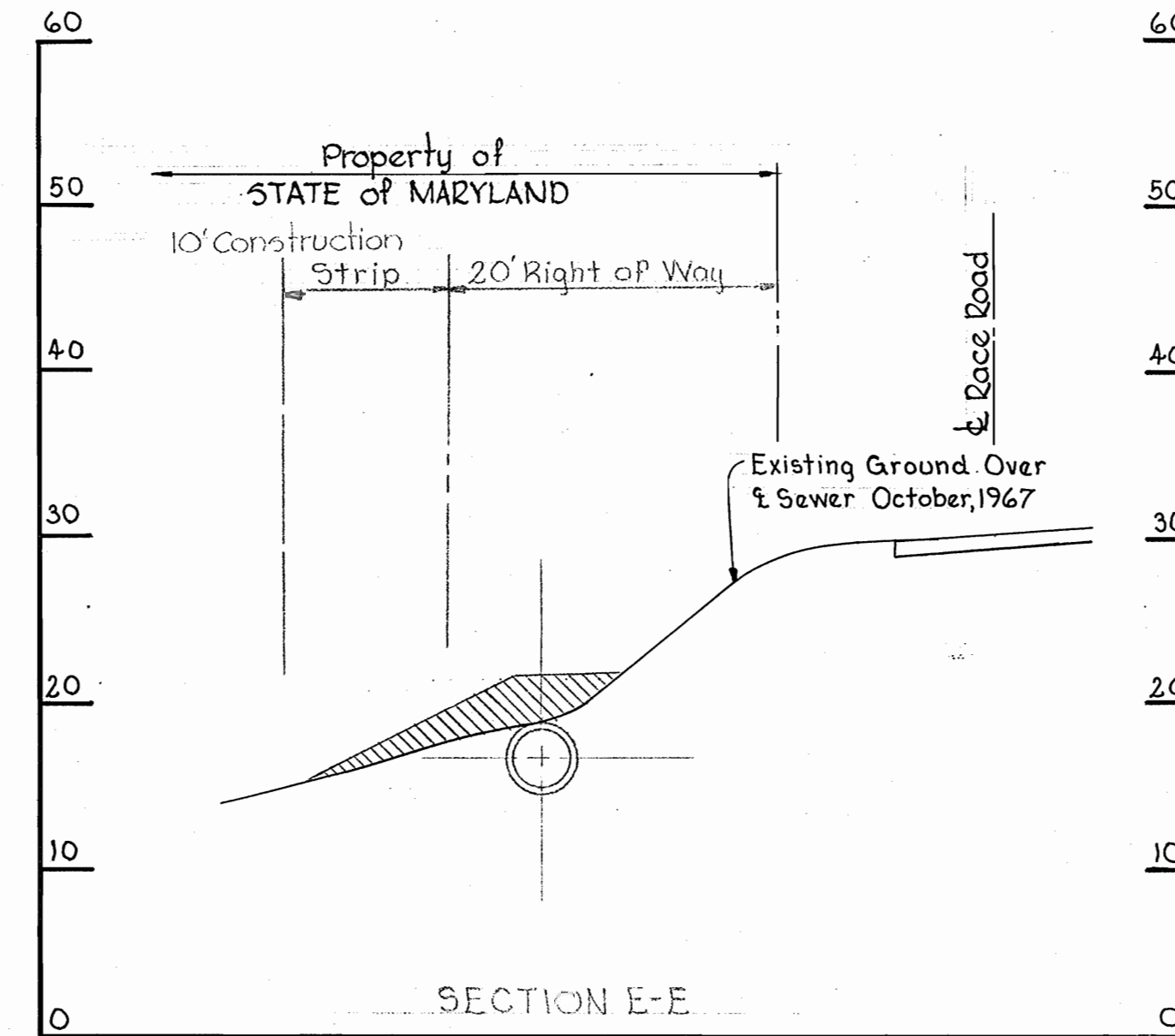
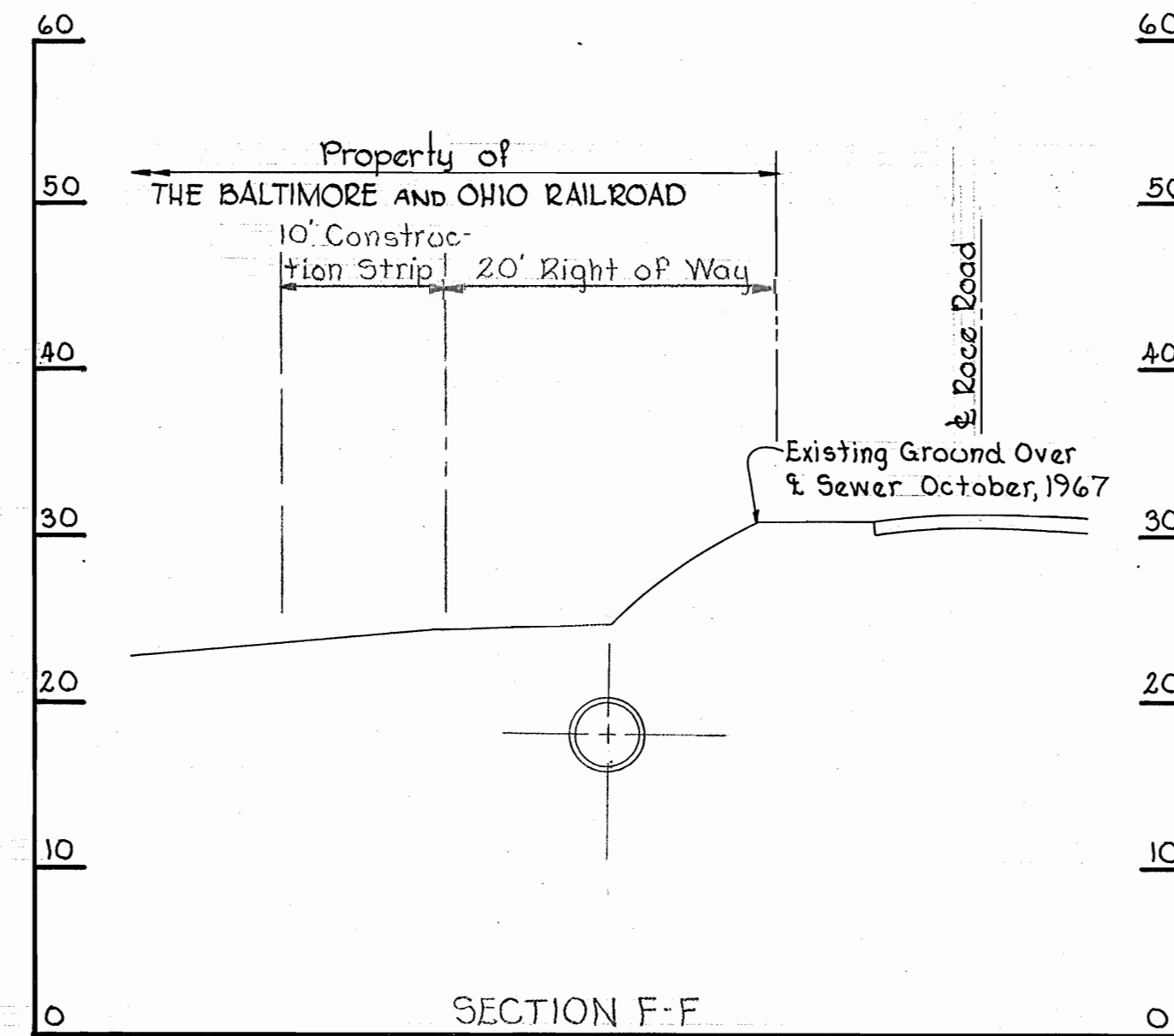
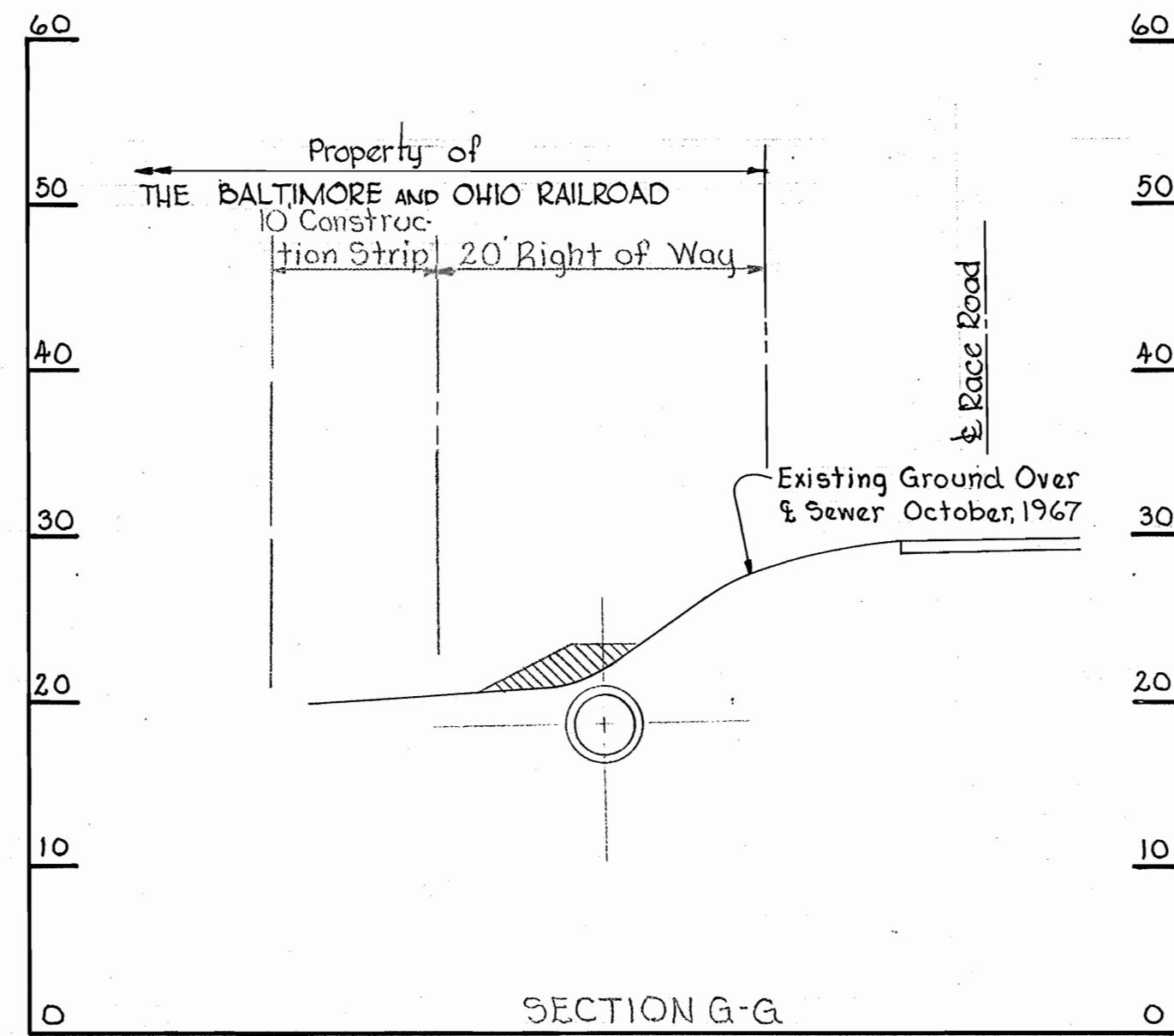
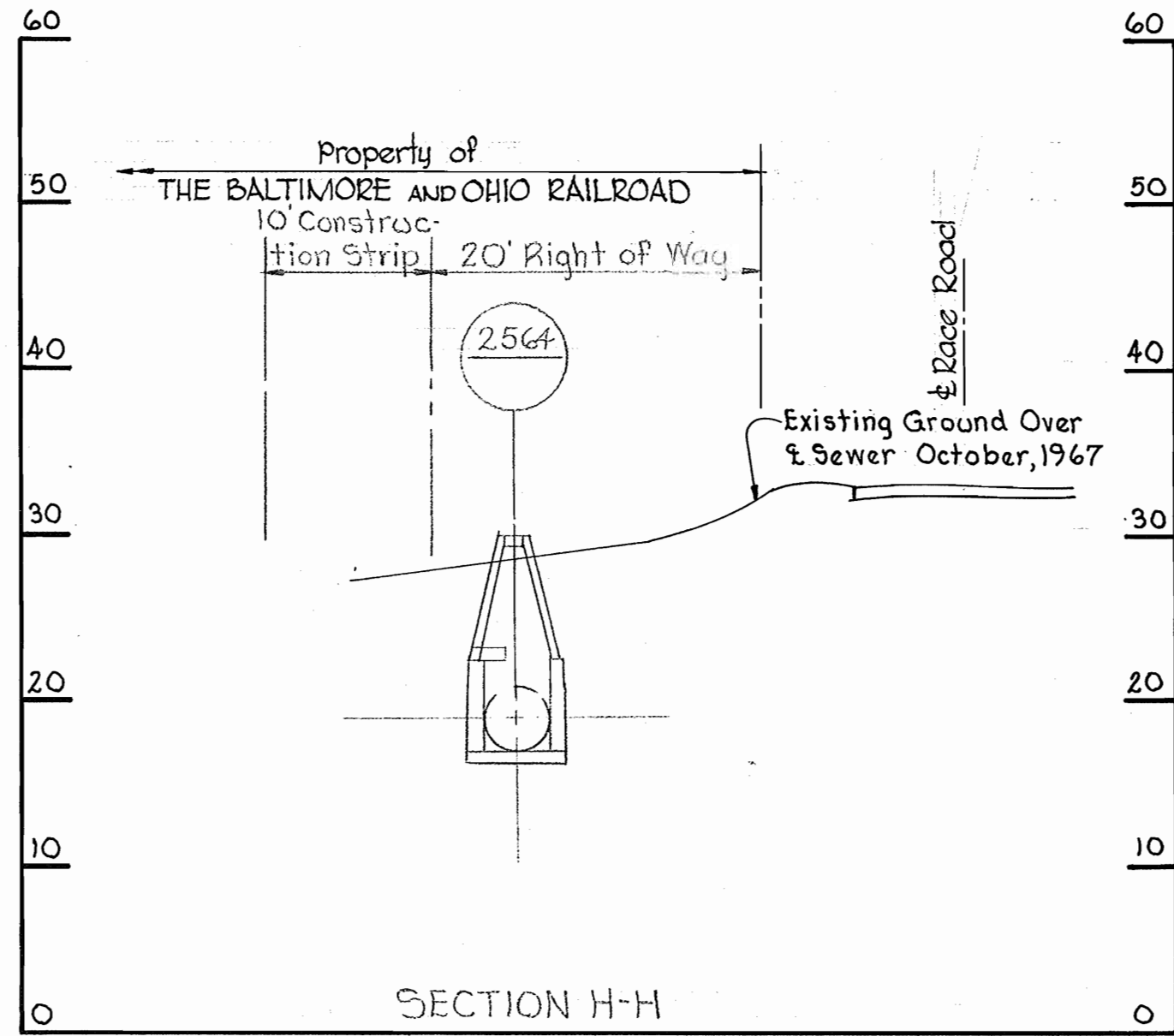
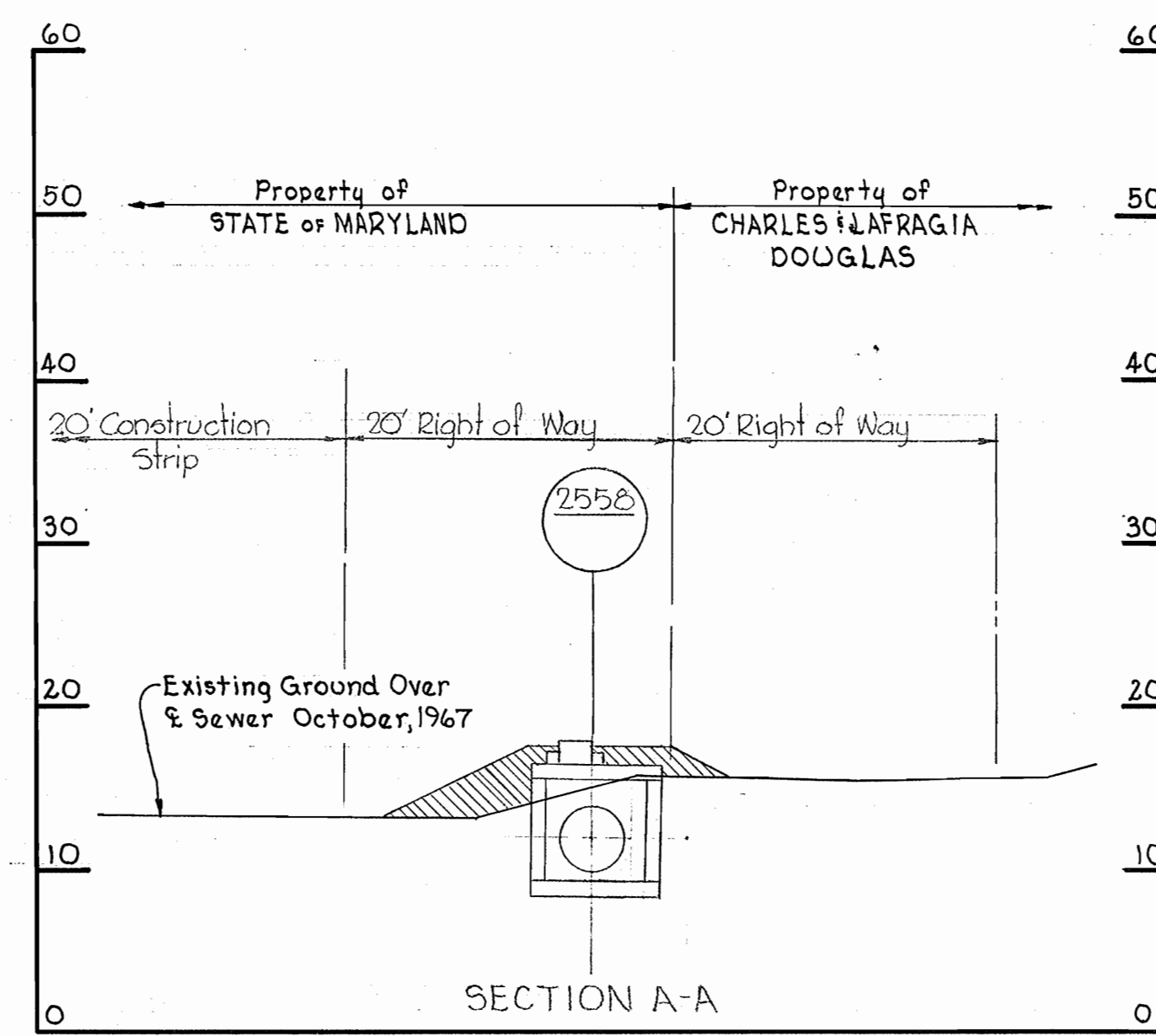
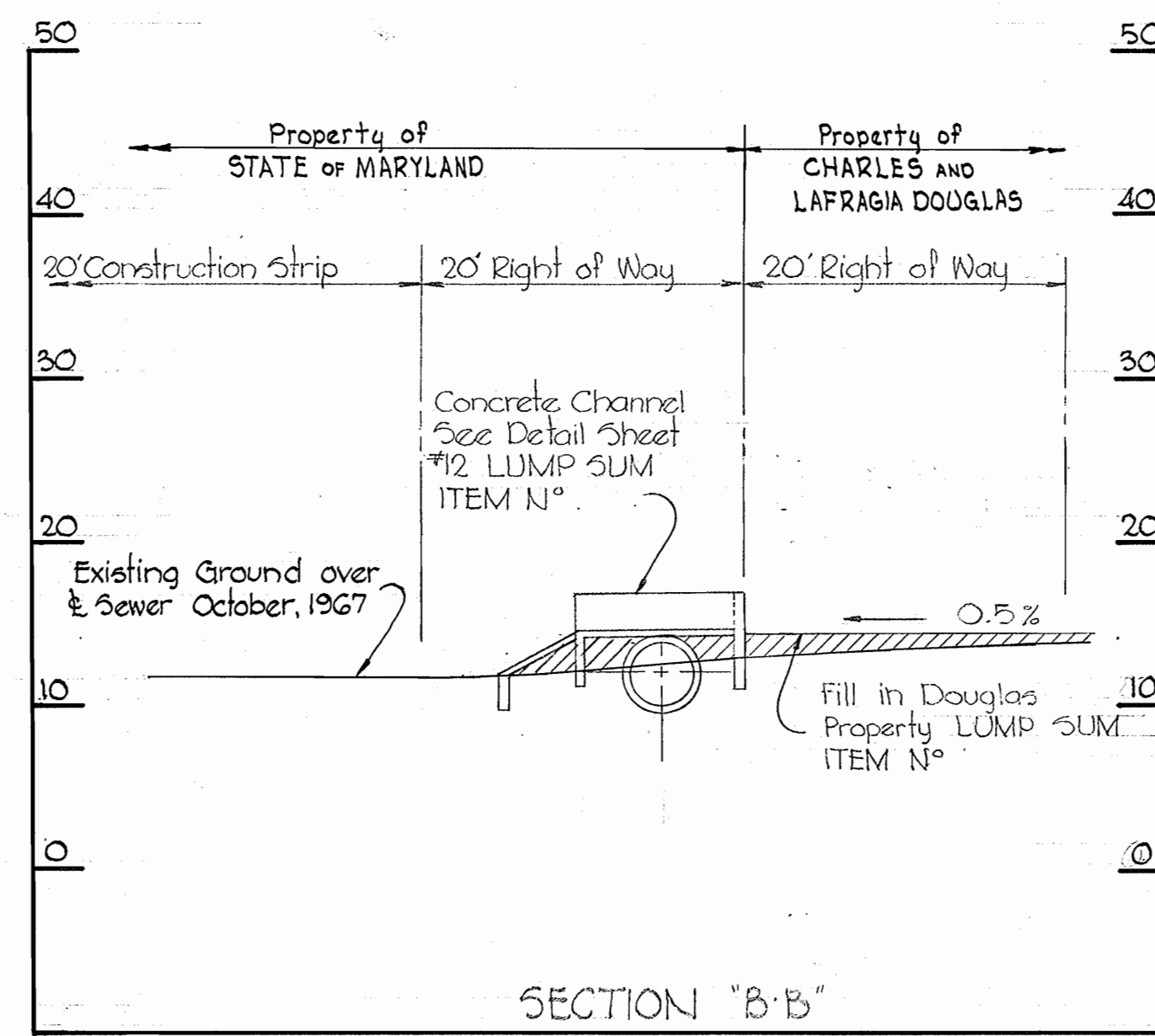
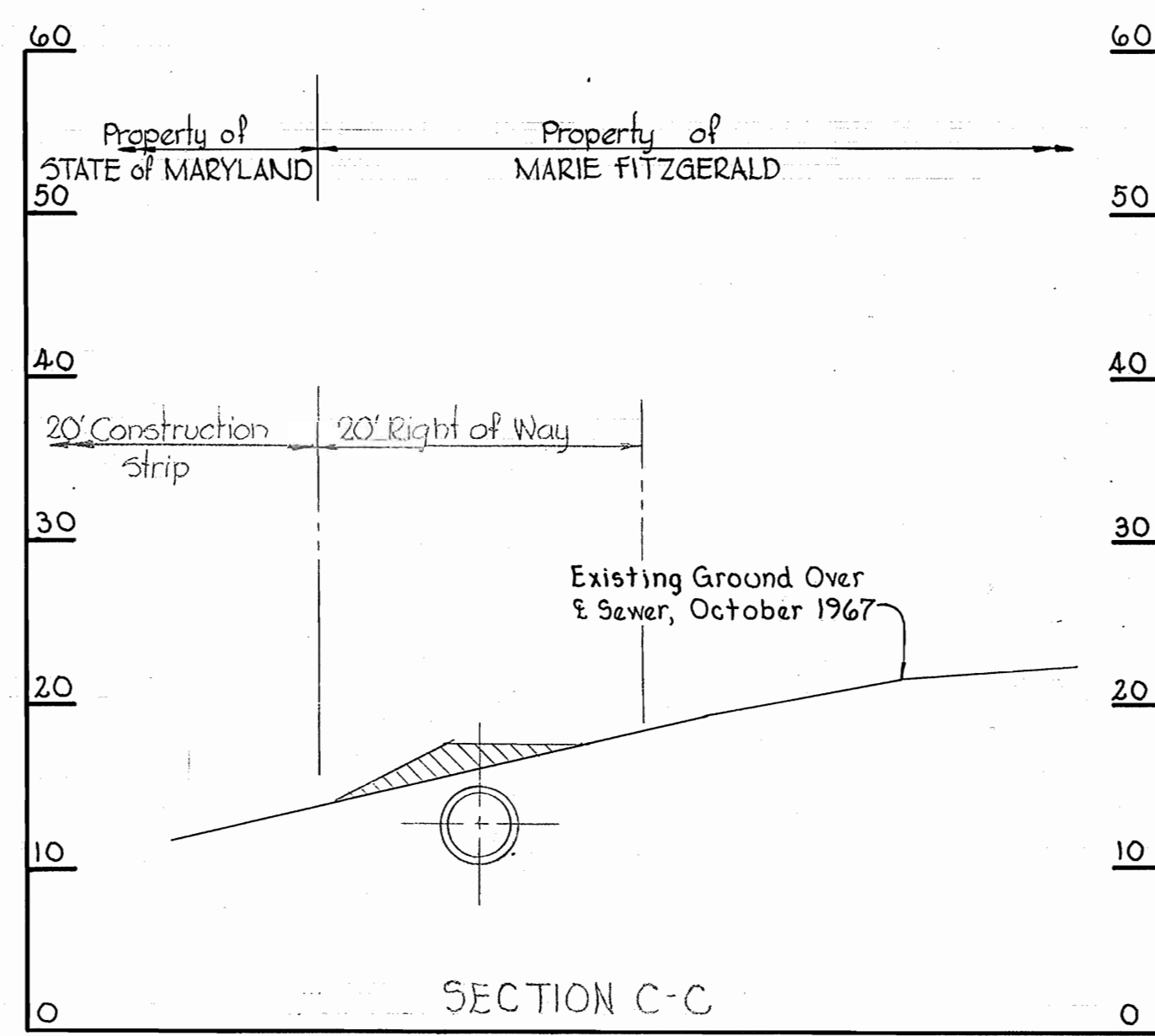
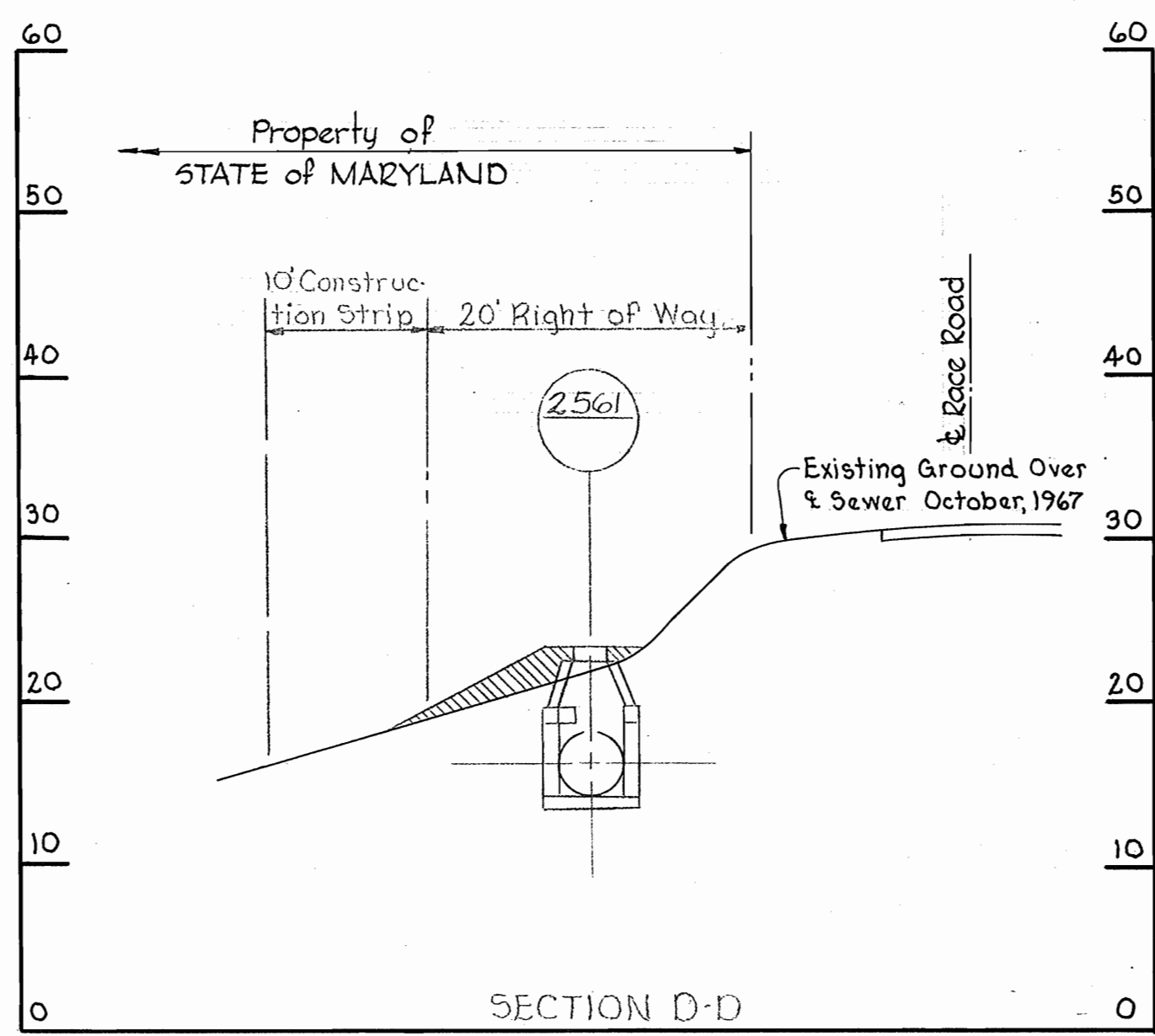
WS 181-S/9 SM



Deep Run Interceptor Sect. No. II
Shallow Run Interceptor Sect. No. II
Contract No. 181-S

WHITMAN, REQUARDT & ASSOCIATES ENGINEERS 1304 ST. PAUL ST. BALTIMORE, MARYLAND	HOWARD COUNTY METROPOLITAN COMMISSION 4-29-69 DATE W. O. Sillitoe CHIEF ENGINEER	CONTRACT NO. 181-S	PROFILES OF SEWER MAINS	DEEP RUN INTERCEPTOR-SECTION NO. 2 SHALLOW RUN INTERCEPTOR-SECTION NO. 2	DRAWING NO. 10 OF 13	SCALE H:1"=100' V:1"=10'
---	--	--------------------	----------------------------	---	-------------------------	--------------------------------

WS 181-S/10



Deep Run Interceptor Section 2
Shallow Run Interceptor Section 2

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

HOWARD COUNTY METROPOLITAN COMMISSION
4-29-69
DATE
W O F. Gilbert
CHIEF ENGINEER

CONTRACT NO. 181-S

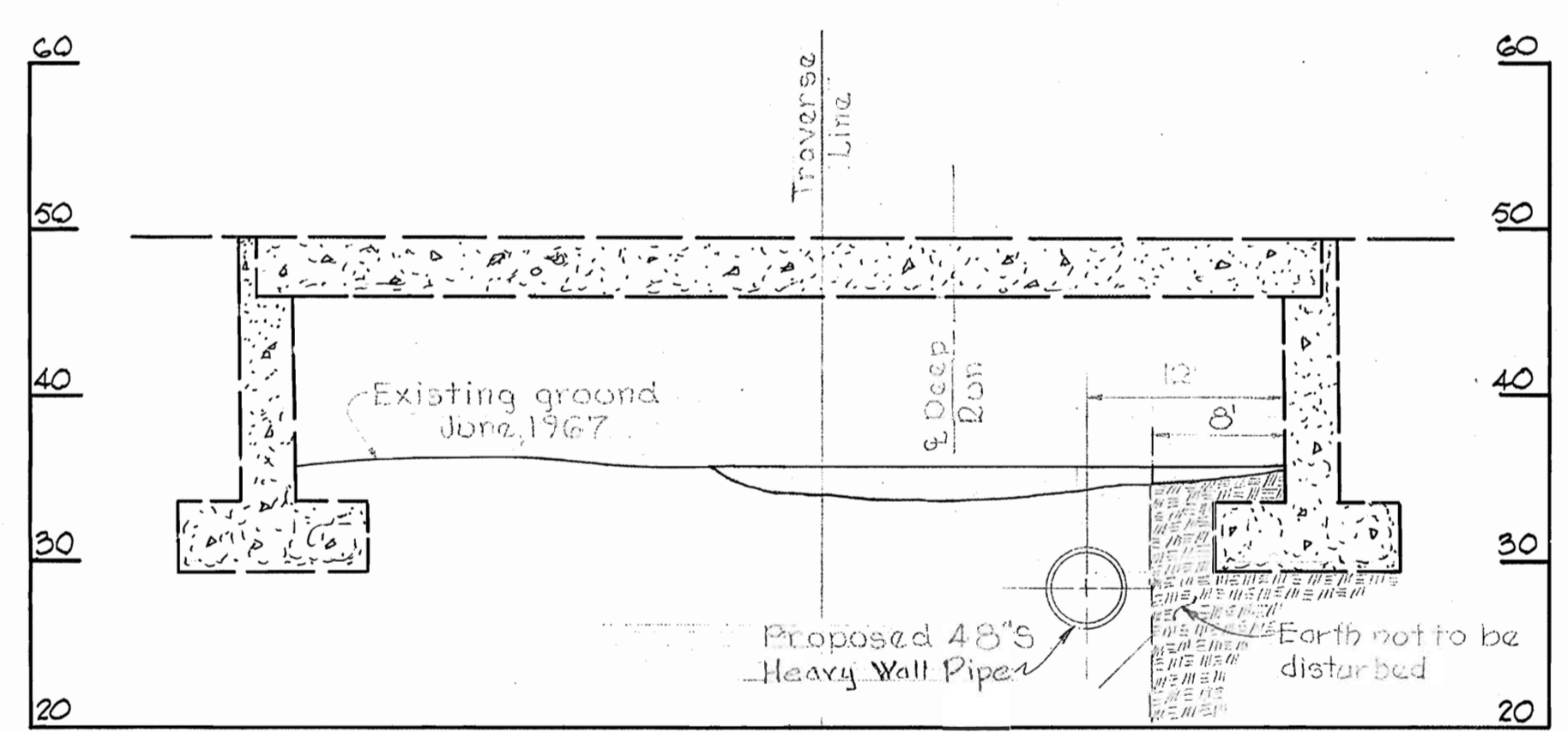
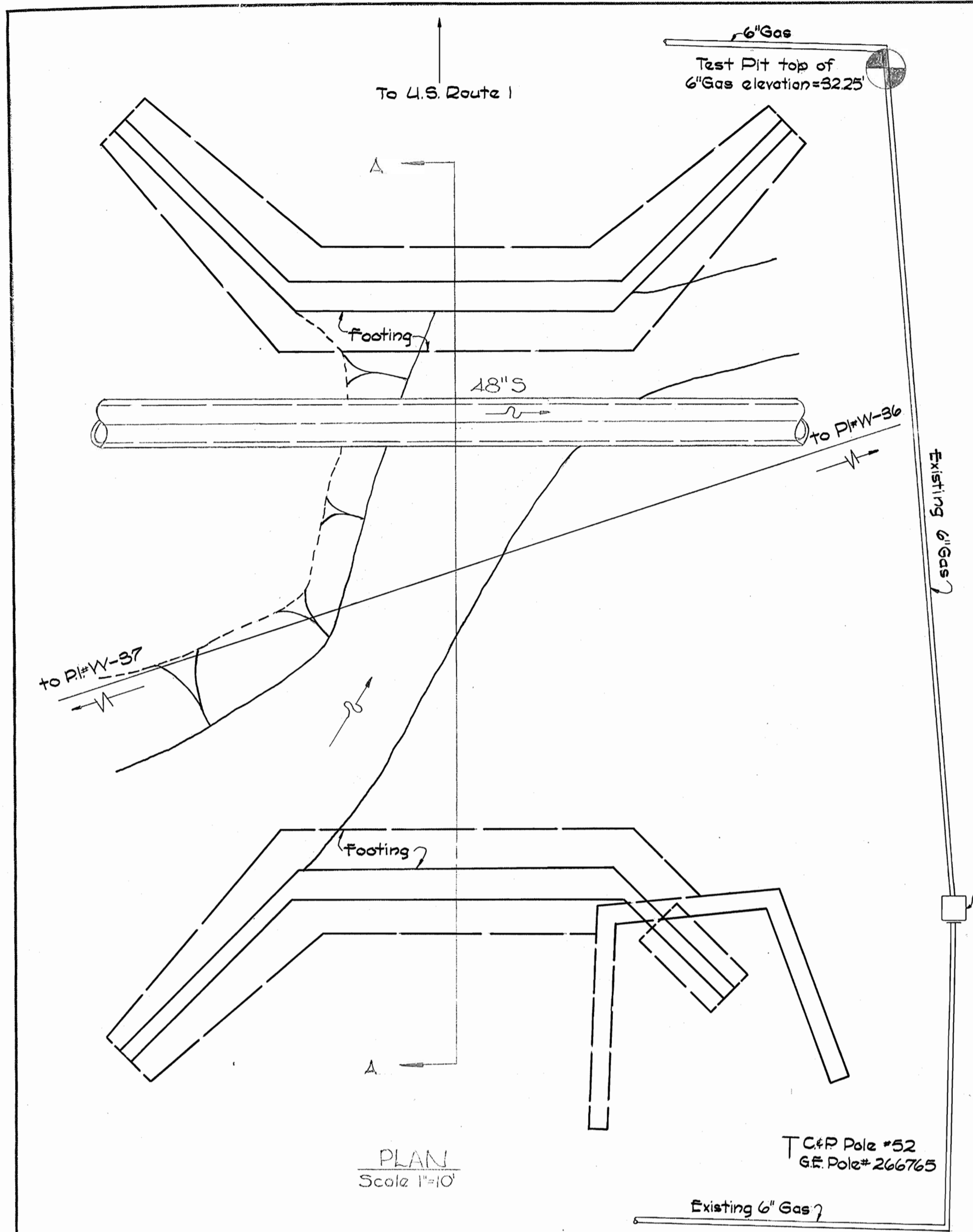
PROFILE SECTIONS
OF SEWER MAINS

DEEP RUN INTERCEPTOR-SECTION NO. 2
SHALLOW RUN INTERCEPTOR-SECTION NO. 2

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

W. O. 5839-2

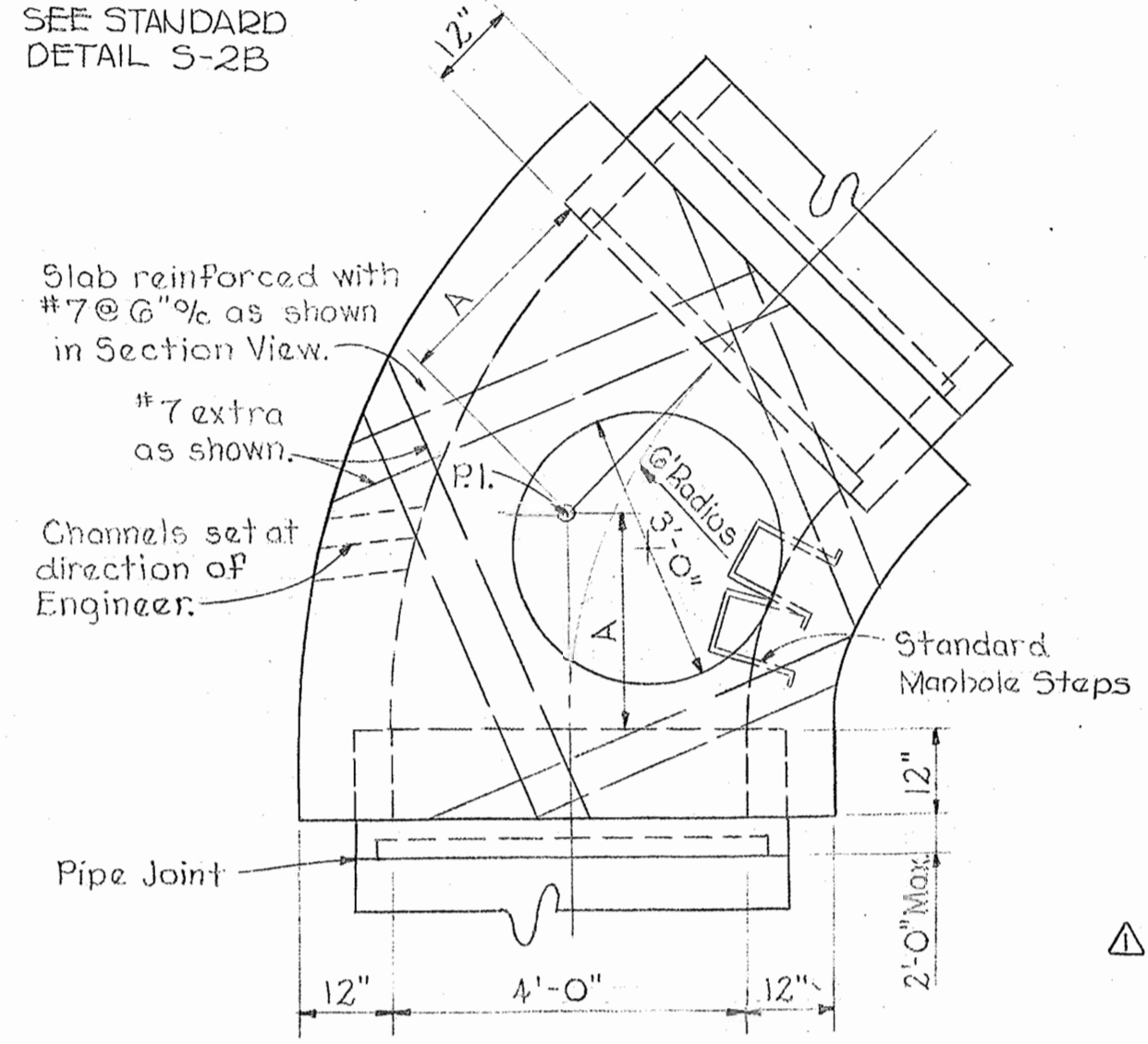
181-S/11



48 INCH SEWER UNDER HANOVER ROAD BRIDGE

NOTE:
FOR SECTION VIEW
SEE STANDARD
DETAIL S-2B

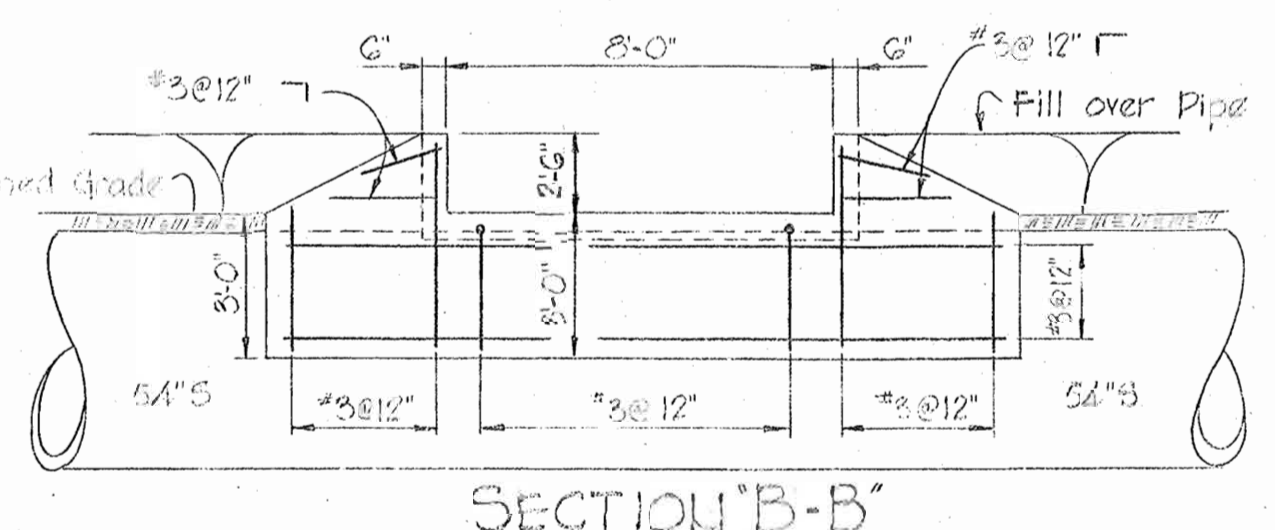
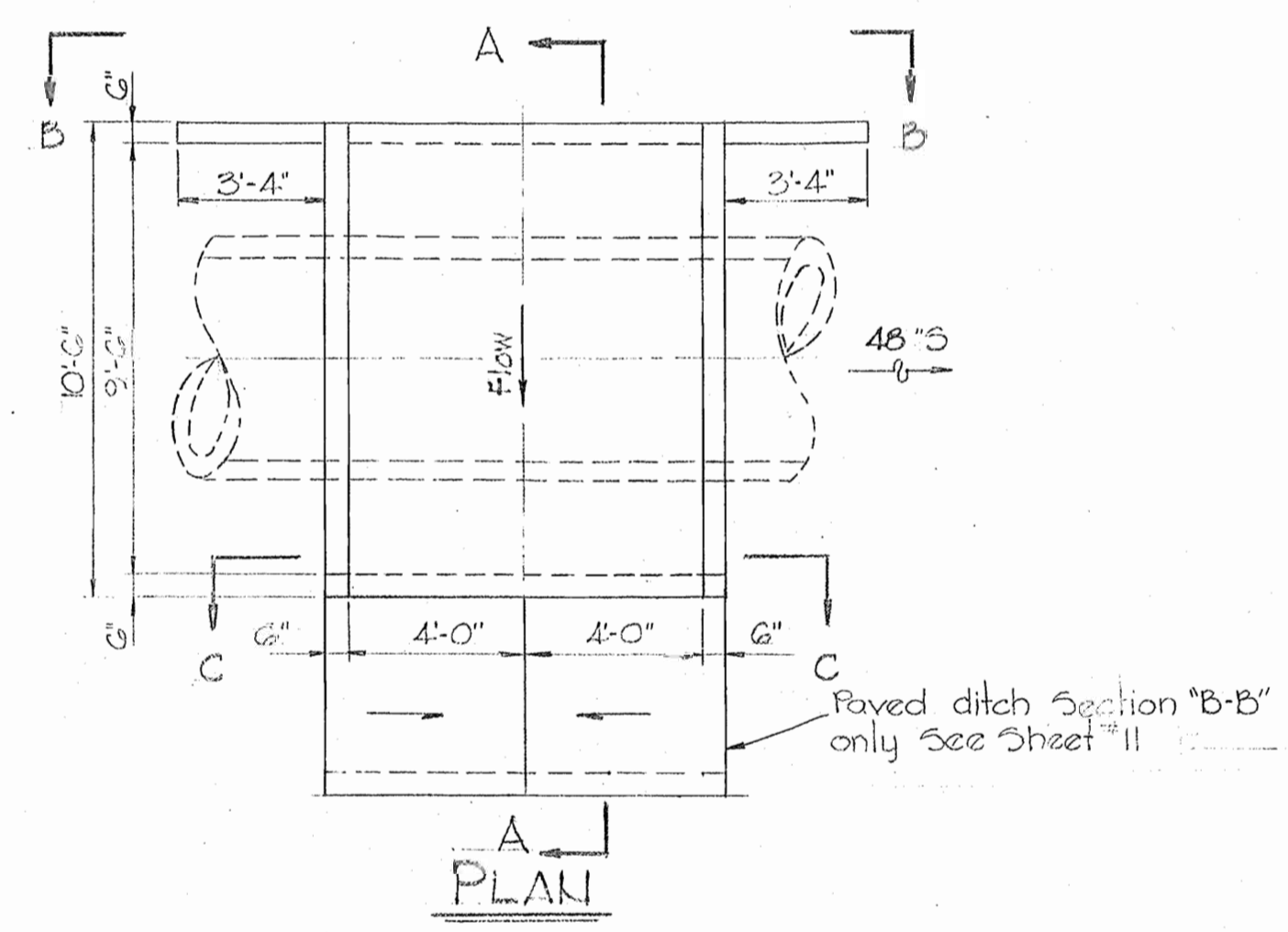
Slab reinforced with
#7 @ 6" as shown
in Section View.
#7 extra
as shown.
Channels set at
direction of
Engineer.



PLAN VIEW OF LINE MANHOLES

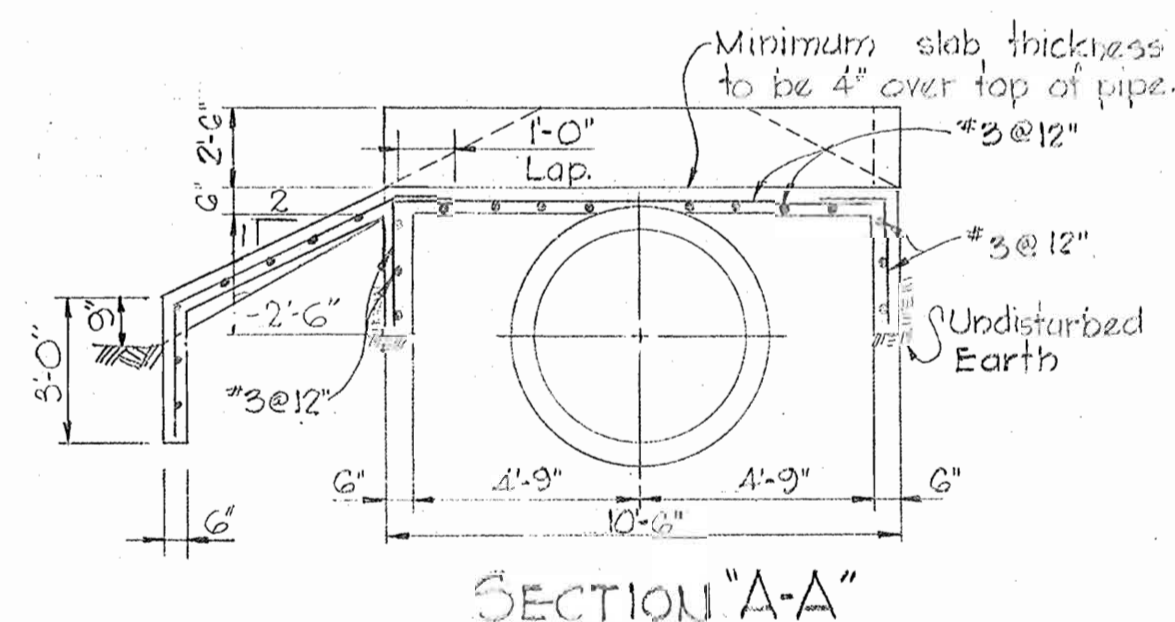
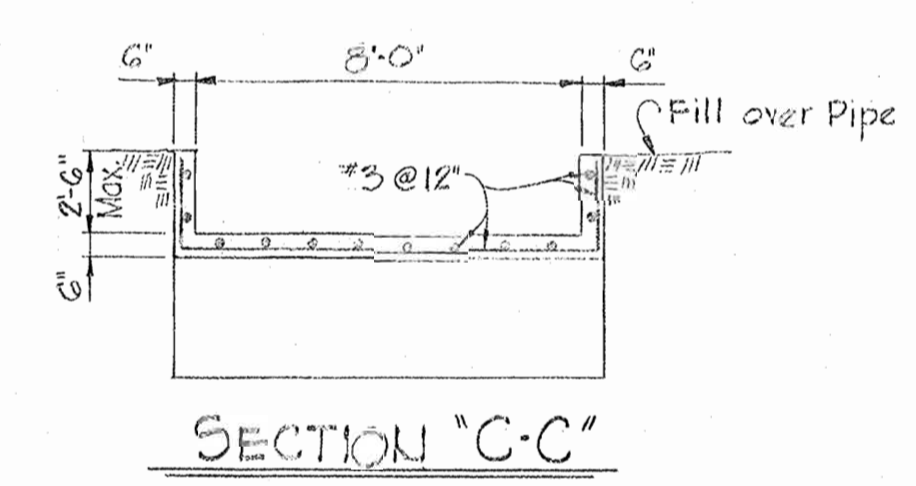
STANDARD LINE MANHOLE
DIMENSION SCHEDULE

Manhole Number	Dimension "A"
2559	3'-2"
2560	2'-9"
2561	2'-1"
2562	Standard Detail S-2B
2563	Standard Detail S-2B
2564	2'-3"
2565	2'-6"
2566	Standard Detail S-2B
2567	Standard Detail S-2B
2568	Standard Detail S-2B
2569	2'-9"
2570	Standard Detail S-2B
2571	2'-0"
2572	Standard Detail S-2B
2573	Standard Detail S-2B
2573-A	2'-6"
2574	2'-8"
2575	2'-11"

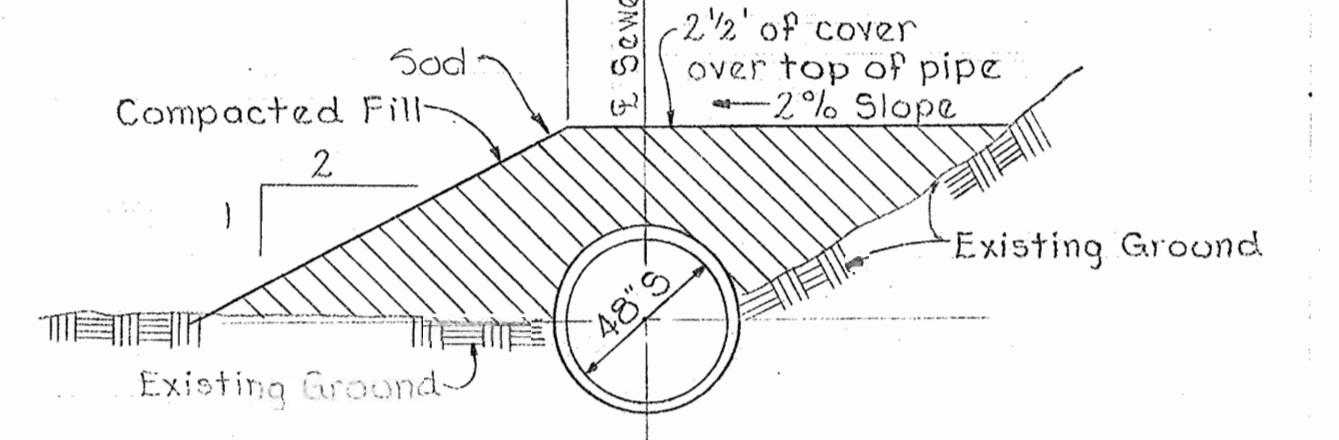


DETAILS PAVED CHANNEL

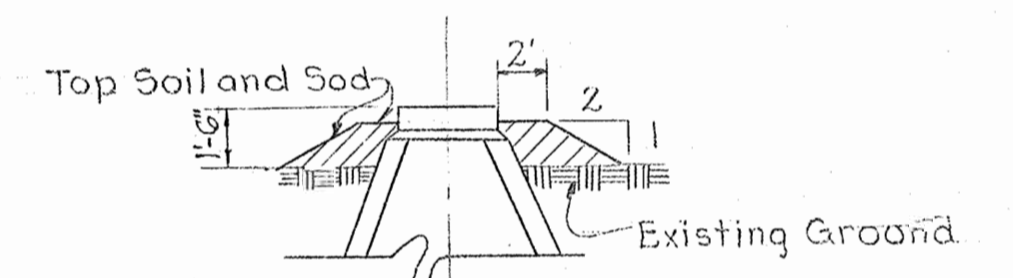
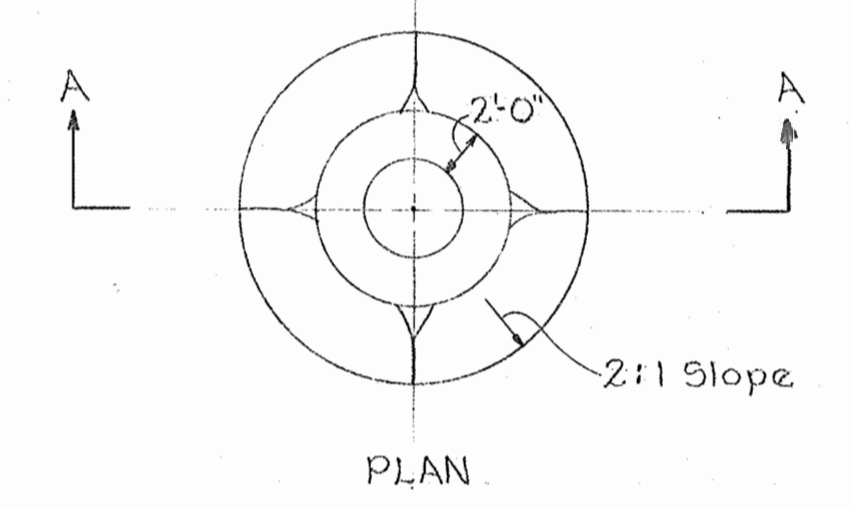
Scale: 1/2" = 1'-0"



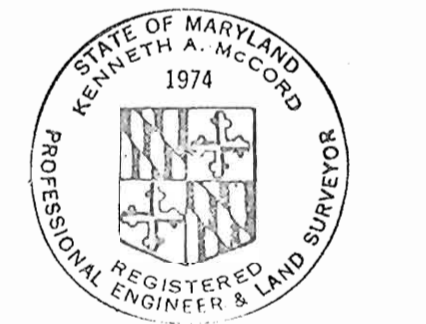
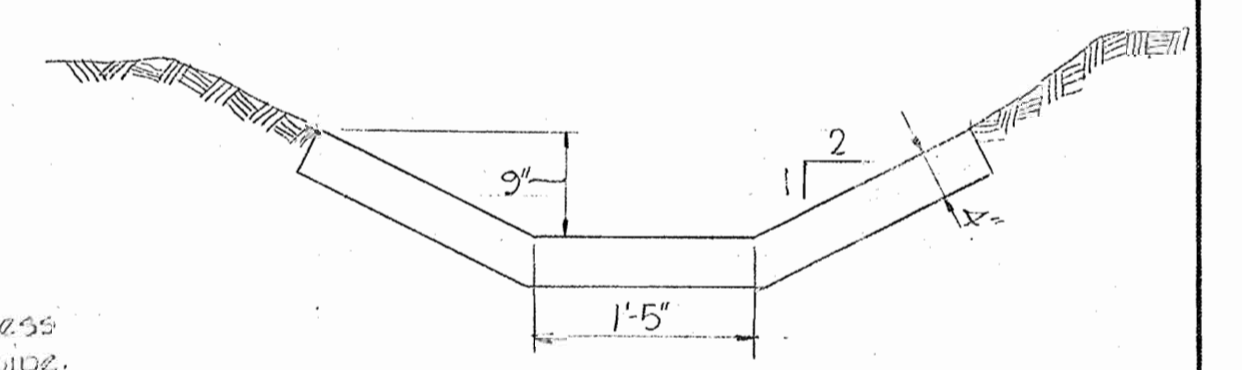
NOTE: COMPACTION OF FILL TO
BE IN ACCORDANCE
WITH SECTION 5-15 OF
THE SPECIFICATION



FILL OVER 48" PIPE



FILL AT MANHOLES



Kenneth A. McCord

12-9-69	Added Manhole 2573-A to Manhole Schedule
No. Date	Revision

Deep Run Interceptor Section No 2
Shallow Run Interceptor Section No 2
Contract No. 181-S

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

HOWARD COUNTY METROPOLITAN COMMISSION
4-29-69 *W O Pickett*
DATE CHIEF ENGINEER

CONTRACT NO. 181-S

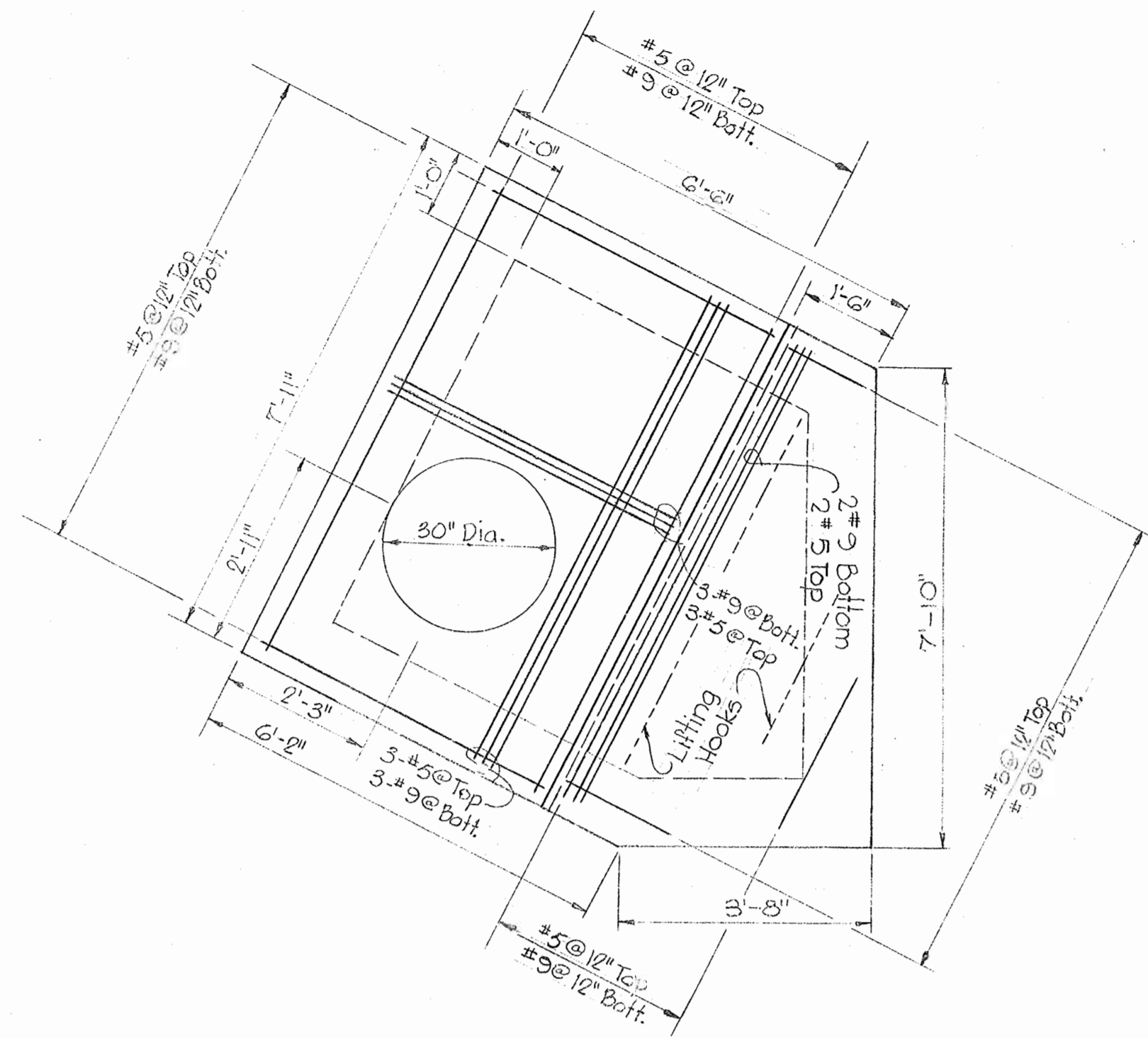
DETAILS OF
SEWER MAINS

DEEP RUN INTERCEPTOR-SECTION NO.2
SHALLOW RUN INTERCEPTOR-SECTION NO.2

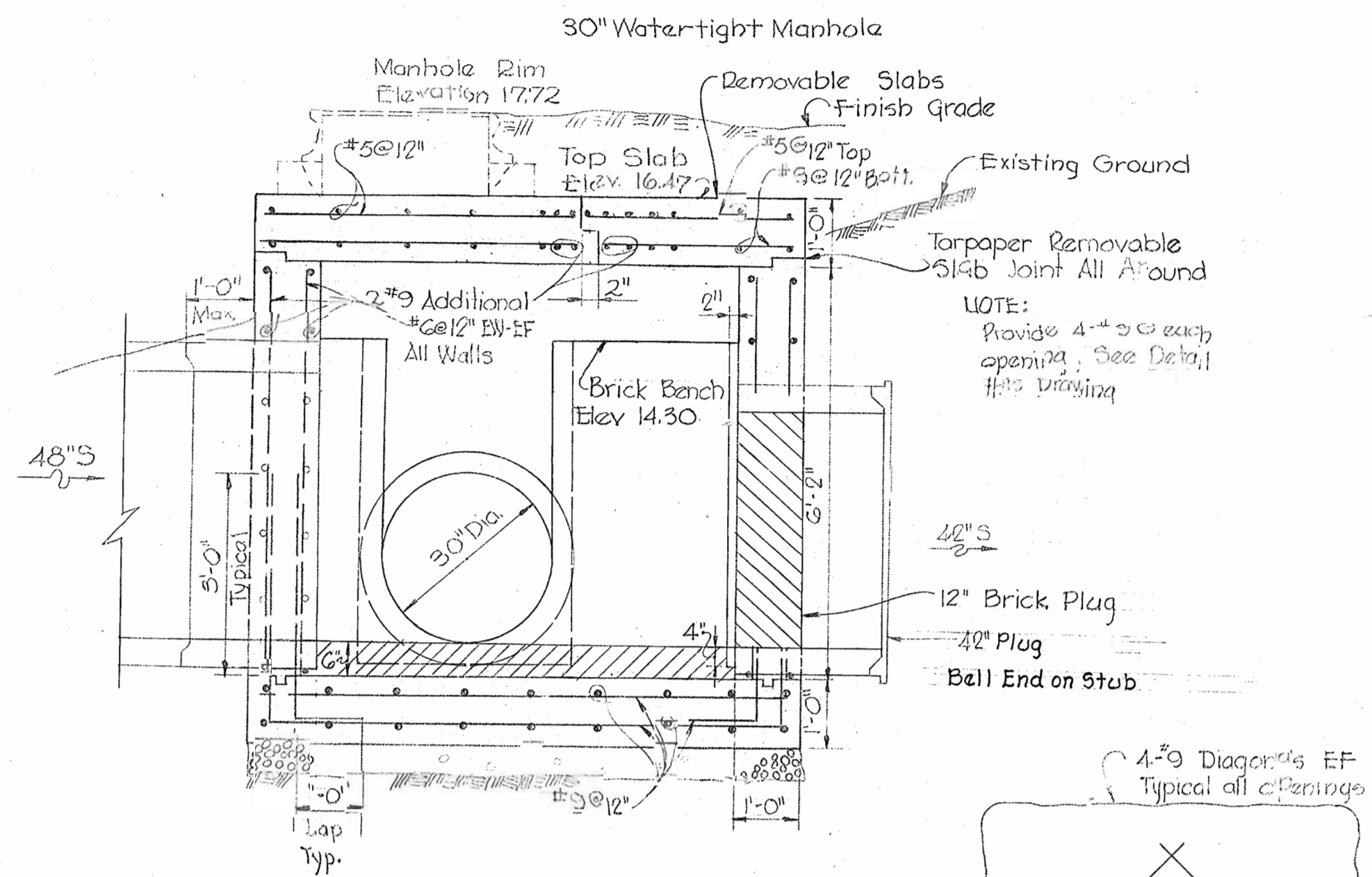
DRAWING NO. 12 OF 13 SCALE AS SHOWN

W. O. 5839-2

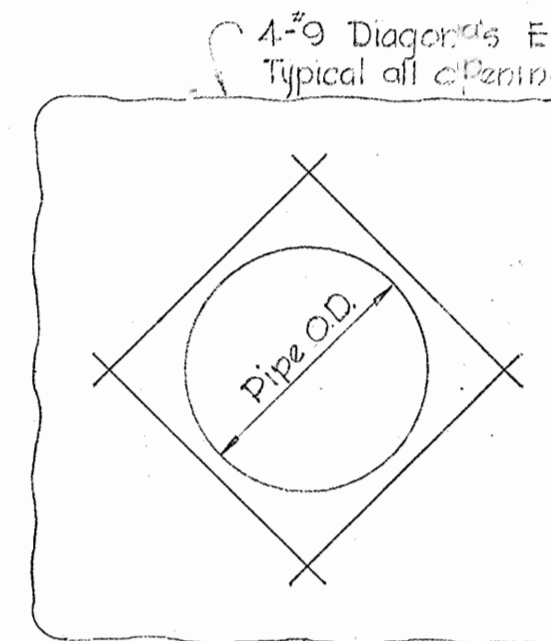
WS 181-S/12



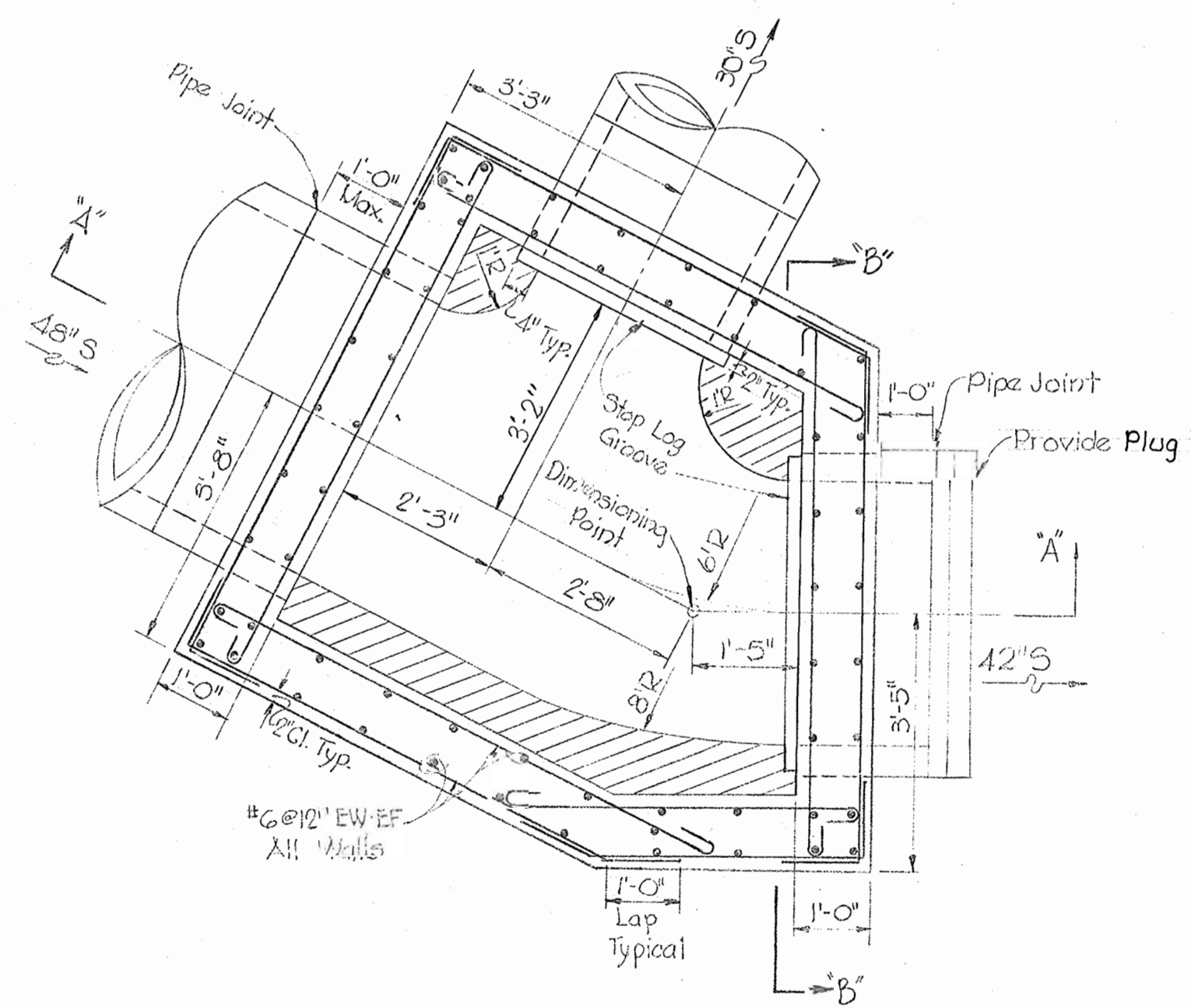
SLAB
Scale: 1/2"=1'-0"



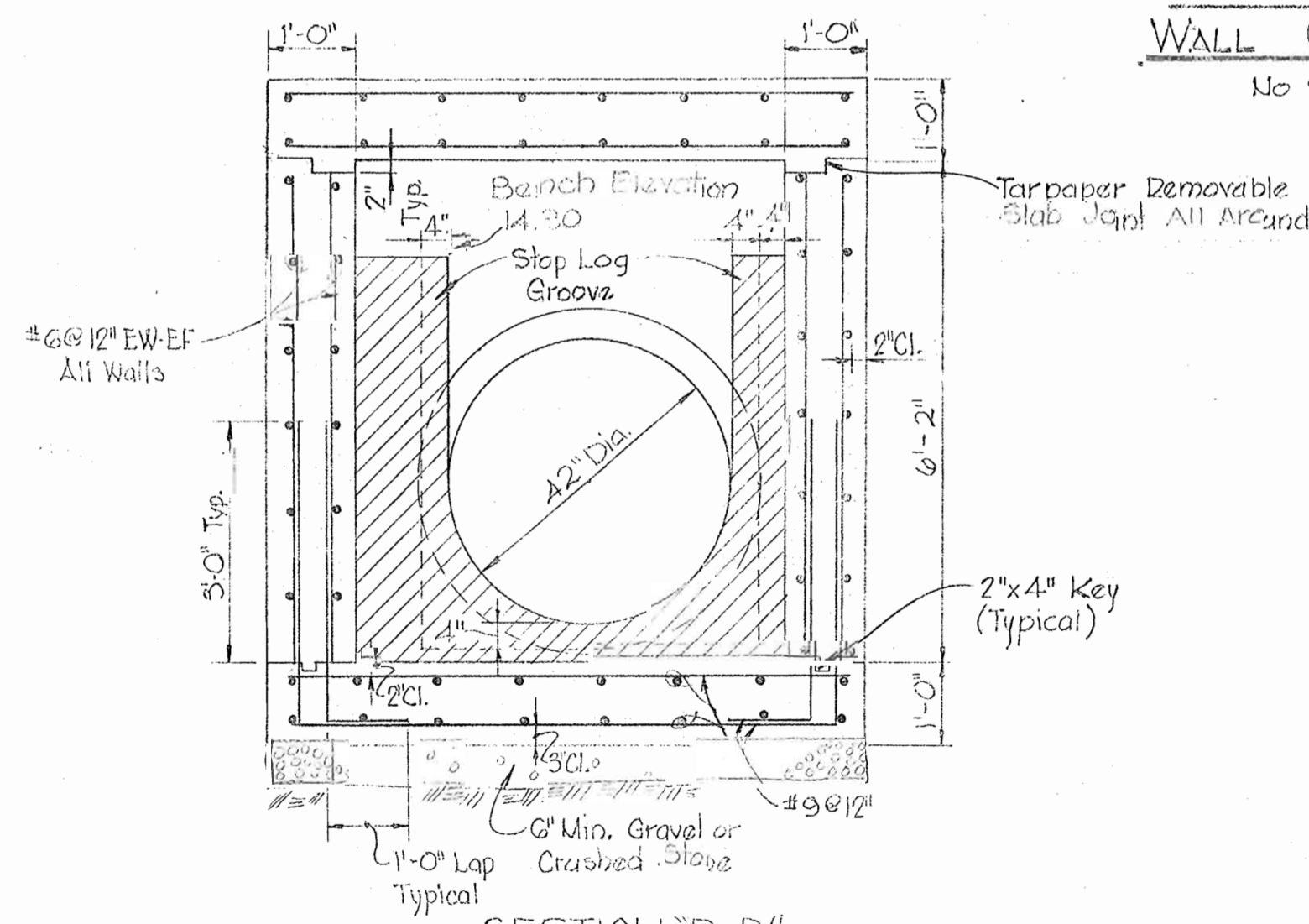
SECTION "A-A"
Scale: 1/2"=1'-0"



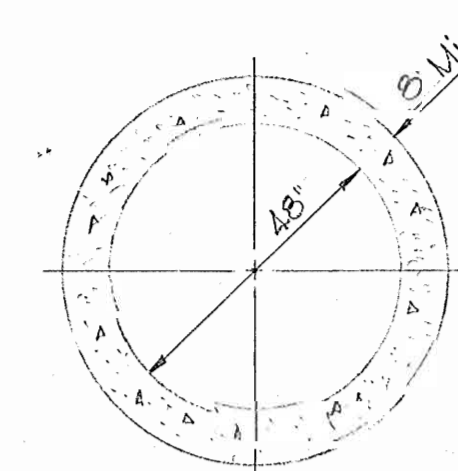
DETAIL OF
WALL OPENINGS
No Scale



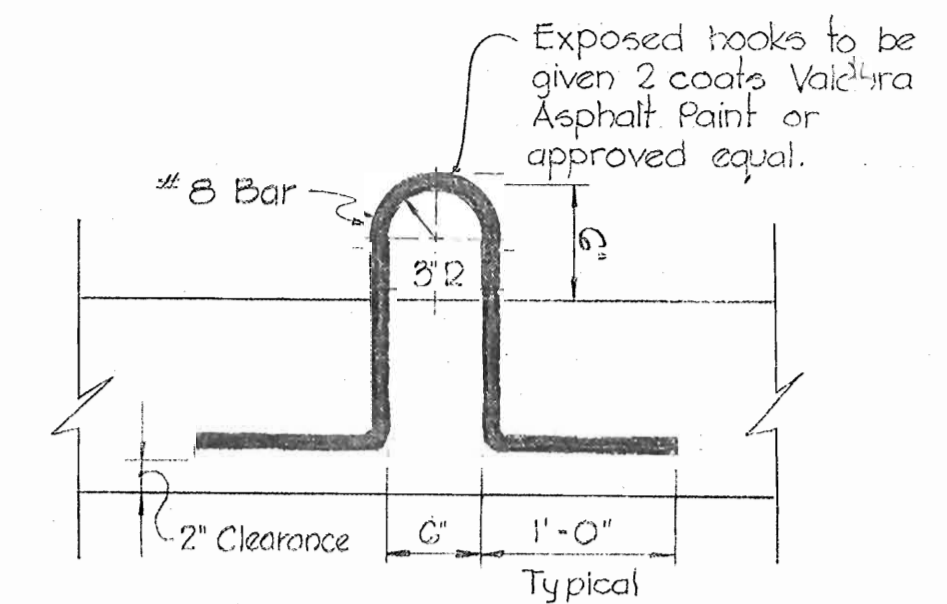
PLAIN
Scale: 1/2"=1'-0"



SECTION "B-B"
Scale: 1/2"=1'-0"

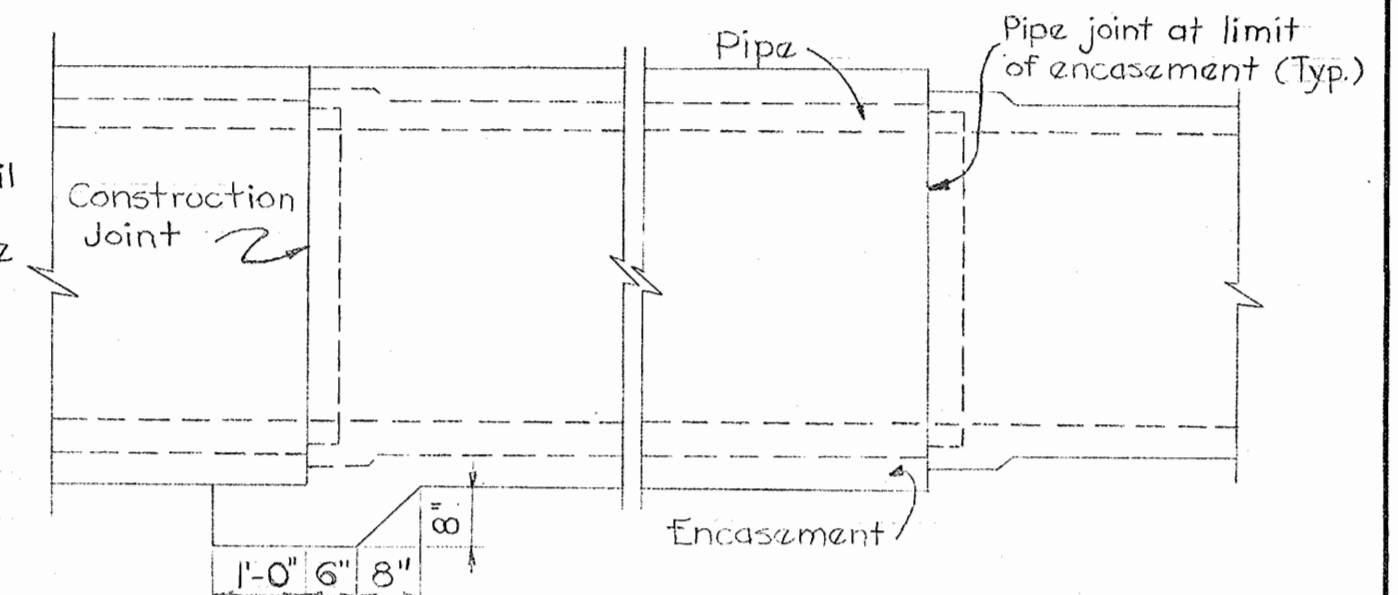


HEAVY WALL
PIPE DETAIL
Scale: 3/8"=1'-0"



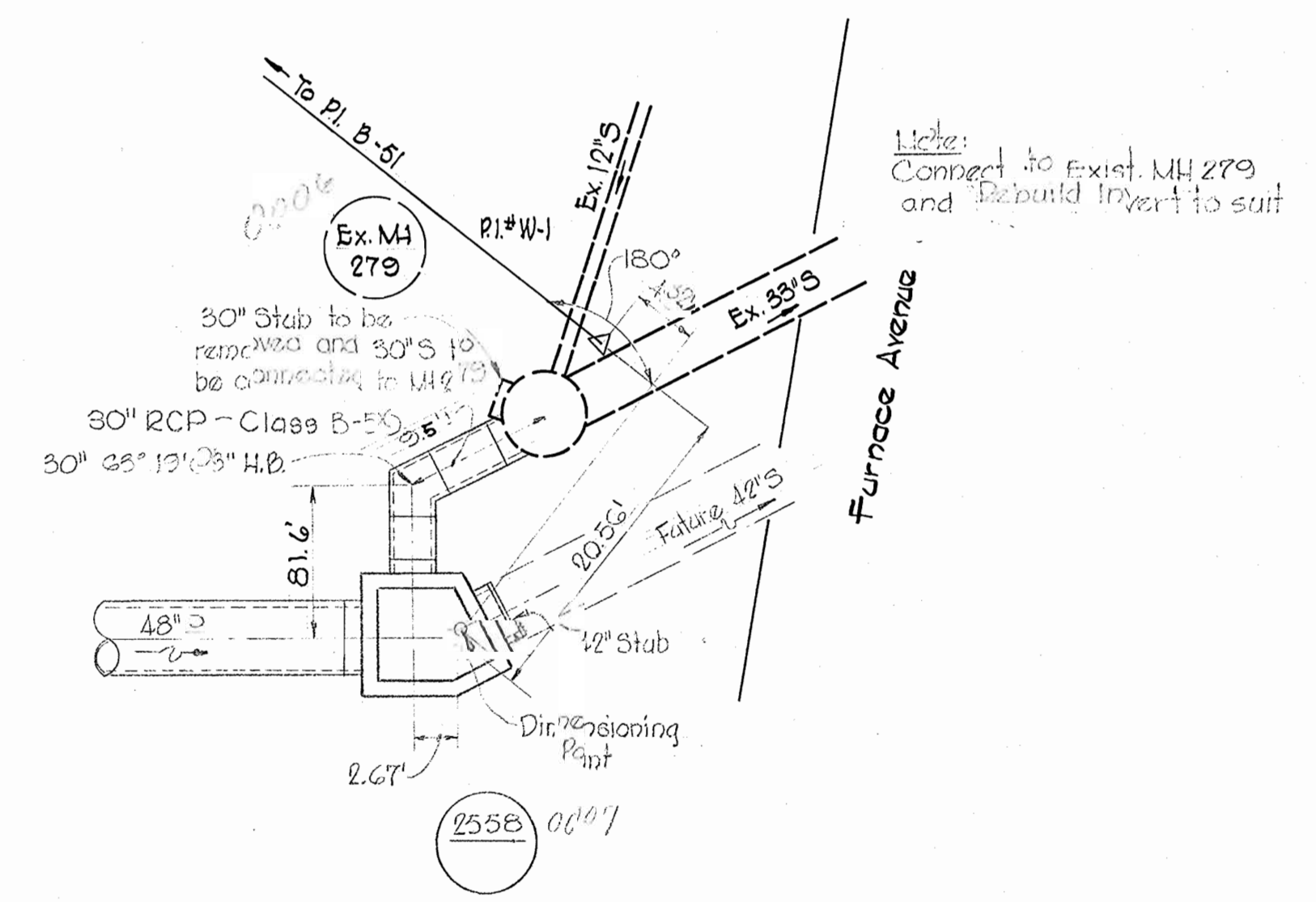
LIFTING HOOK
DETAIL
Scale: 1"=1'-0"

NOTE
Construction joint detail
applies only where
encasement joints are
required in multiple
pipe stream crossings



ENCASEMENT DETAILS
Scale: 1/2"=1'-0"

For Details not shown
See Standard Details
S-1 and S-1A in
Specifications.



DETAIL OF 30" SEWER
BETWEEN MH 2558 & EXISTING MH # 279
Scale: 1"=10'

MANHOLE NO 2558



Kenneth A. McCord

Deep Run Interceptor Sect. No. 2
Shallow Run Interceptor Sect. No. 2
Contract No. 181-S

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

HOWARD COUNTY METROPOLITAN COMMISSION
4-29-69 *W. O. F. Whitman*
DATE CHIEF ENGINEER

CONTRACT NO. 181-S

DETAILS OF
SEWER MAINS

DEEP RUN INTERCEPTOR - SECTION NO. 2
SHALLOW RUN INTERCEPTOR - SECTION NO. 2

DRAWING
NO. 13
OF 13
SCALE
AS
SHOWN