

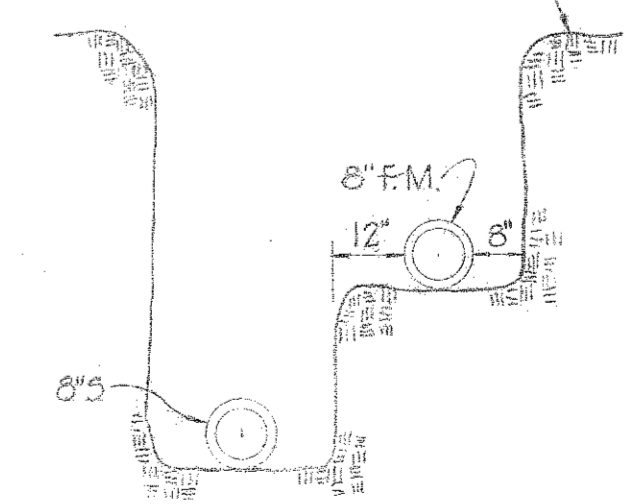
VICINITY MAP
Scale: 1" = 2500'

GENERAL NOTES

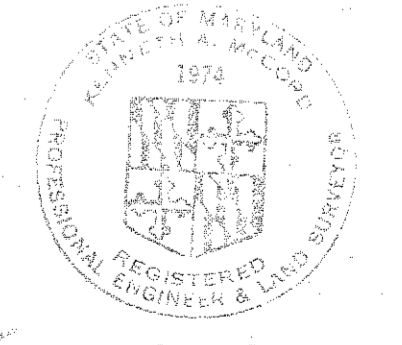
1. Approximate location of existing mains are shown. The Contractor shall take all necessary precautions to protect existing mains and services and maintain uninterrupted supply. Any damage incurred shall be repaired immediately.
2. All pipe elevations shown are invert elevations.
3. The Contractor shall 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. Block all fittings with concrete, see standard detail bound in Specifications.
6. Clear all utilities by a minimum of 6', clear all poles by 2'-0" minimum or tunnel as required.
7. The Contractor shall provide a joint in all sewer mains within 2'-0" of exterior manhole walls.
8. All sewer pipe shall be VCPX, CSPX, RCP or ACP.
9. 12" Manhole walls shown on profiles pertain to brick manholes only.
10. All Force Main pipe shall be C.I.P. or D.I.P. and have a minimum of 3 1/2' cover.
11. All manholes shall be 4'-0" inside diameter unless otherwise noted.

Diary in FB # 4318
Stakeout in FB # 4289

Existing Ground



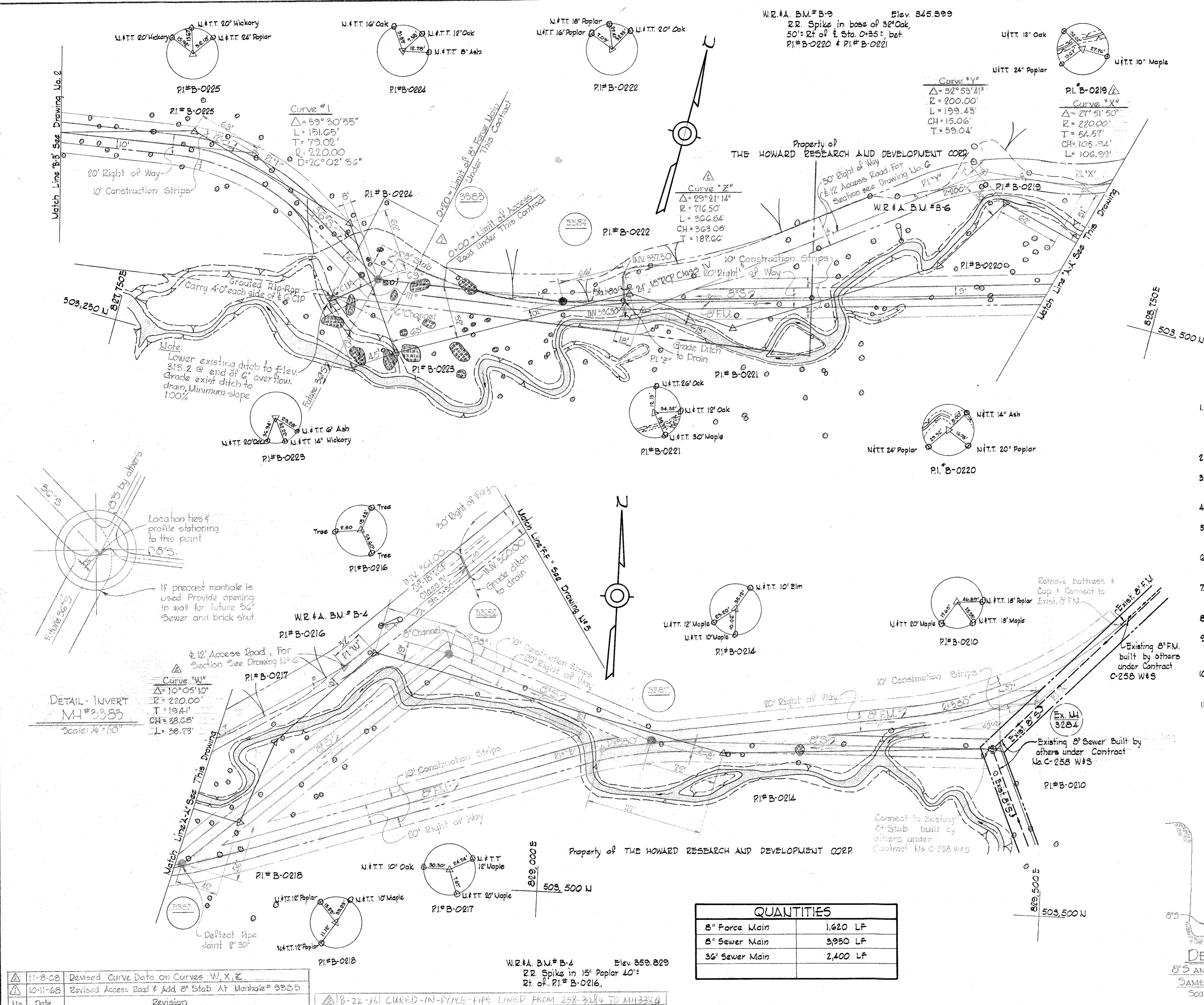
DETAIL
8" S AND 6" FM IN
SAME TRENCH
Scale: 3/8" = 1'-0"



Kenneth M. Clark

Contract: C-279-S

QUANTITIES	
6" Force Main	1,620 LF
6" Sewer Main	3,950 LF
36" Sewer Main	2,400 LF



DETAIL - INVERT
M.I.# 2333
Scale: 1/4" = 1'-0"

No.	Date	Revision
11-8-68		Revised Curve Data on Curves W, X, Y, Z.
10-11-68		Revised Access Road # Add 8" Stab At Manhole # 3303

8-22-66 CURED-IN-PIPE-PIPE LINED FROM 258+32.84 TO MH334.4

WHITMAN, REQUARDT & ASSOCIATES ENGINEERS 1304 ST. PAUL ST. BALTIMORE, MARYLAND	HOWARD COUNTY METROPOLITAN COMMISSION DATE: 10-1-68 <i>W. O. P. Hubert</i> CHIEF ENGINEER	CONTRACT NO. C-279-S	PLAN OF SEWER MAIN	COLUMBIA VILLAGE OF HARPER'S CHOICE ELECTION DISTRICT CLARKSVILLE No. 5	DRAWING NO. 1 OF 6 SCALE AS SHOWN
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WS 279-S/1

W.R.#A. B.U.#B-8 Elev. 327.796
 2 R. Spike in base of 24' Oak, 6"
 Rt. of t. Sta. 0+53: bet P.I. B-0231 &
 P.I. B-0232.

W.R.#A. B.U.#B-9 Elev. 331.463
 2 R. Spike in base of 20' Poplar,
 50' Rt. of t. Sta. 0+54: bet P.I. B-0236
 & P.I. B-0237.

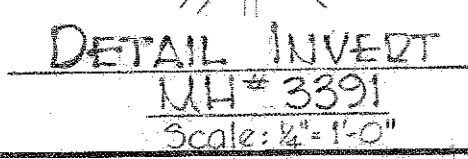
Curve #2
 $\Delta = 13^\circ 45' 38''$
 $R = 440.00'$
 $L = 105.22'$
 $T = 53.09'$
 $D = 13^\circ 01' 18''$

Curve #3
 $\Delta = 59^\circ 03' 12''$
 $R = 440.00'$
 $L = 299.91'$
 $T = 156.04'$
 $D = 15^\circ 01' 18''$

Curve #4
 $\Delta = 50^\circ 26' 58''$
 $R = 220.00'$
 $L = 193.71'$
 $T = 103.64'$
 $D = 26^\circ 03' 24''$

Curve #5
 $\Delta = 21^\circ 30' 44''$
 $R = 220.00'$
 $L = 82.50'$
 $T = 41.75'$
 $D = 26^\circ 02' 36''$

No.	Date	Revision
△	10-14-68	Revised Sewer Alignment From NH# 3389 to NH# 3391
△	10-14-68	Revised Curve Data



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

HOWARD COUNTY METROPOLITAN COMMISSION
 DATE 10-1-68
 W. O. P. [Signature]
 CHIEF ENGINEER

CONTRACT NO. C-279-S

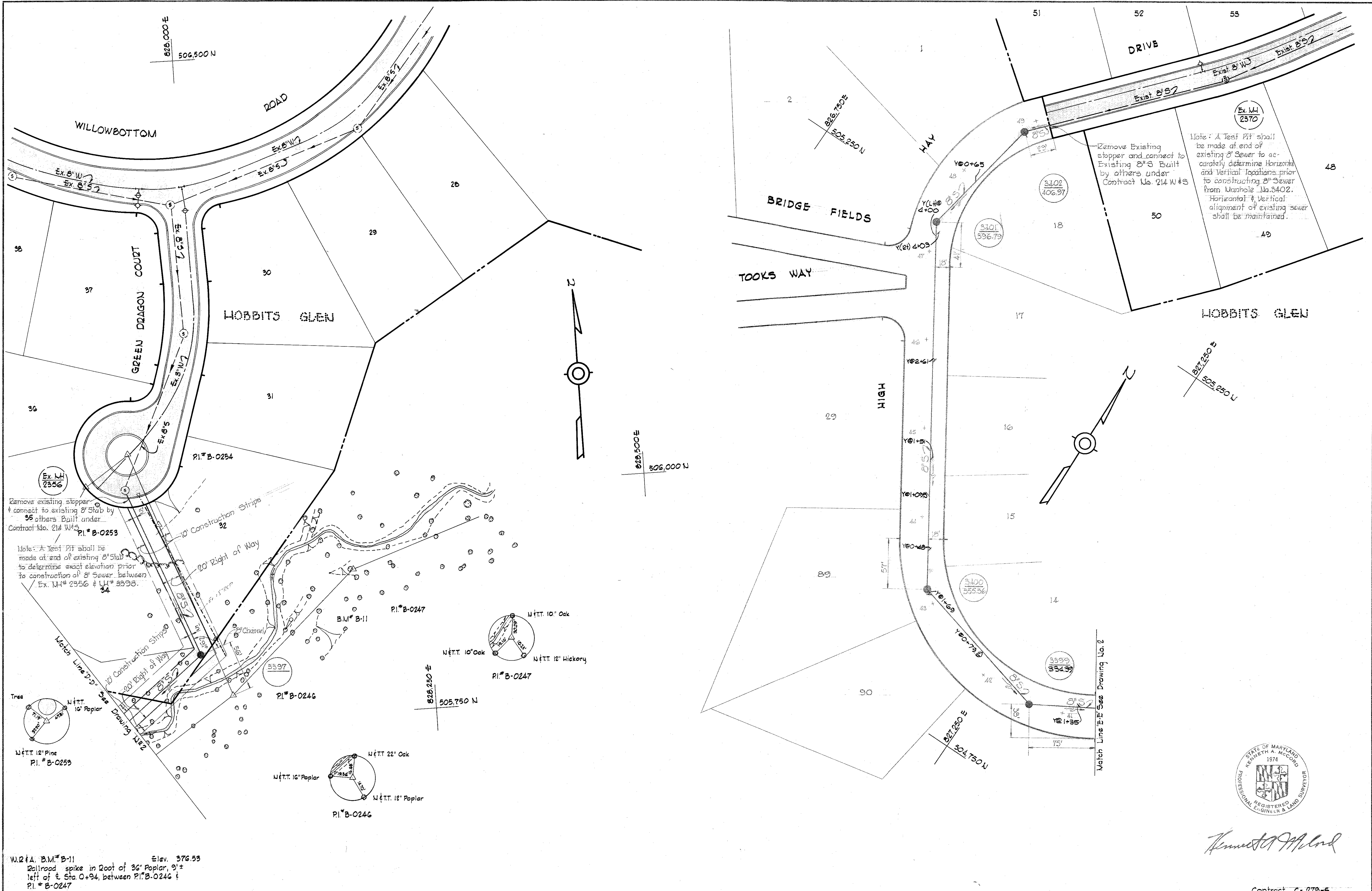
PLAN OF SEWER MAIN

COLUMBIA
 VILLAGE OF HARPER'S CHOICE
 ELECTION DISTRICT CLARKSVILLE No. 5

CONTRACT C-279-S
 DRAWING NO. 2 OF 6
 SCALE 1" = 50'
 305,474
 305,473
 304,473
 303,473

AS BUILT Nov. 21, 1969 FB# 42514248

NS 279-S/2



Remove existing stopper & connect to existing 8" Stab by 36" others Built under Contract No. 214 W 45
 PI. # B-0253

Note: A Test Pit shall be made at end of existing 8" Stab to determine exact elevation prior to construction of 8" Sewer between Ex. MH# 2356 & MH# 3398.
 34

Tree
 N 1/2 T. 12" Pine
 PI. # B-0255

N 1/2 T. 10" Poplar
 PI. # B-0246

N 1/2 T. 10" Oak
 N 1/2 T. 12" Hickory
 PI. # B-0247

N 1/2 T. 18" Poplar
 PI. # B-0246

W.21A. B.M. # B-11 Elev. 376.53
 Railroad spike in Root of 36" Poplar, 9' left of E Sta. 0+94, between PI. # B-0246 & PI. # B-0247

WHITMAN, REQUARDT & ASSOCIATES ENGINEERS 1304 ST. PAUL ST. BALTIMORE, MARYLAND	HOWARD COUNTY METROPOLITAN COMMISSION DATE 10-1-68 <i>W. O. Pelham</i> CHIEF ENGINEER	CONTRACT NO. C-279-S	PLAN OF SEWER MAIN	COLUMBIA VILLAGE OF HARPER'S CHOICE ELECTION DISTRICT CLARKSVILLE No.5	DRAWING NO. 3 OF 6 SCALE 1" = 50' 505,473 504,473 506,474 505,474
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STATE OF MARYLAND
 KENNETH A. MCCORD
 1974
 REGISTERED PROFESSIONAL ENGINEER & LAND SURVEYOR

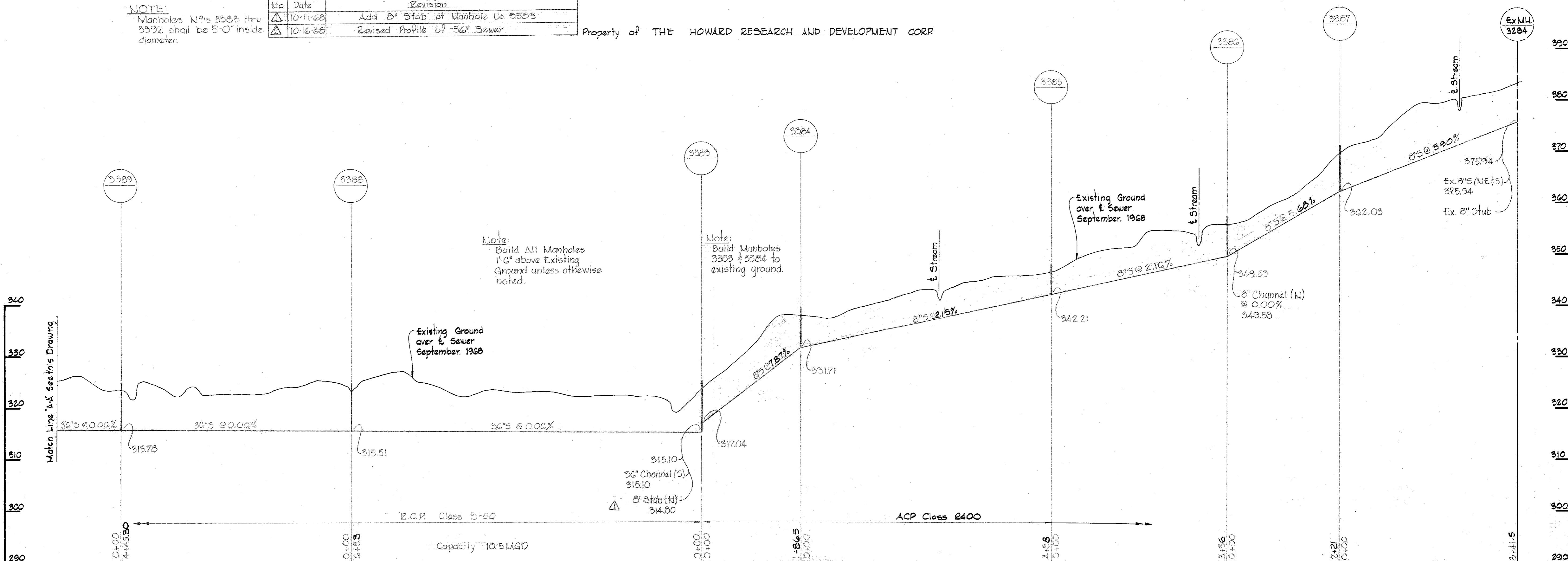
Kenneth A. McCord

WS 279-S/13

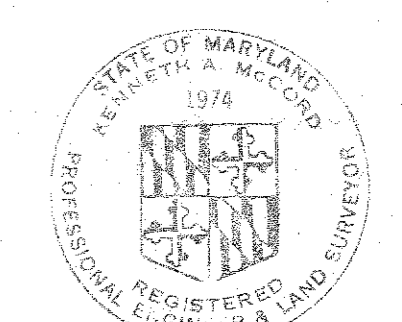
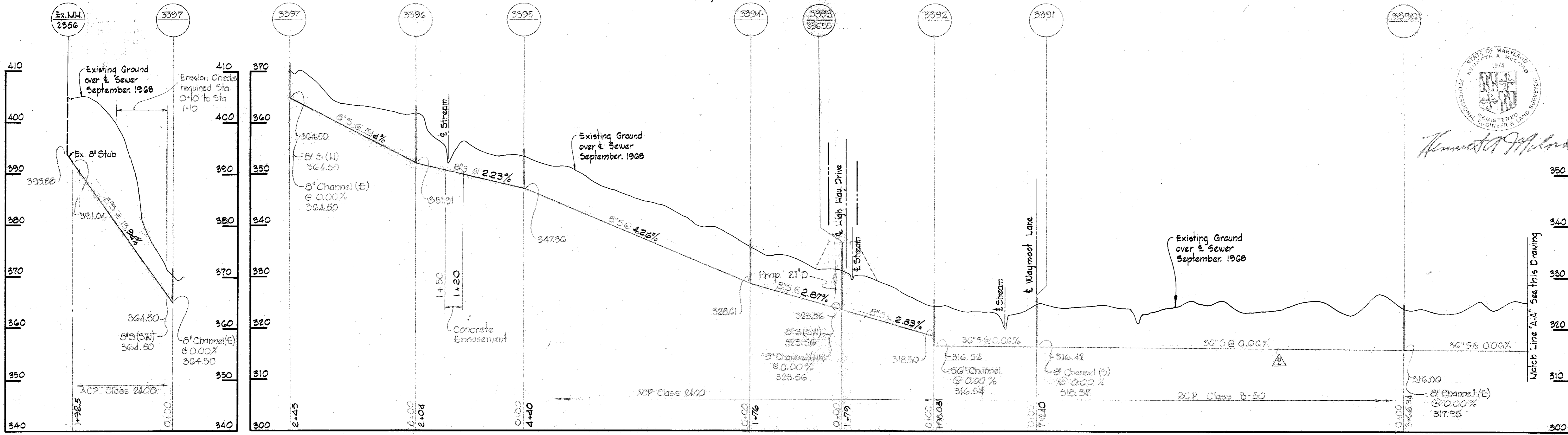
NOTE: Manholes No's 3383 thru 3392 shall be 5'-0" inside diameter.

No	Date	Revision
1	10-11-68	Add 8" Stub of Manhole No 3383
2	10-16-68	Revised Profile of 36" Sewer

Property of THE HOWARD RESEARCH AND DEVELOPMENT CORP



Property of THE HOWARD RESEARCH AND DEVELOPMENT CORP



Kenneth J. Milrod

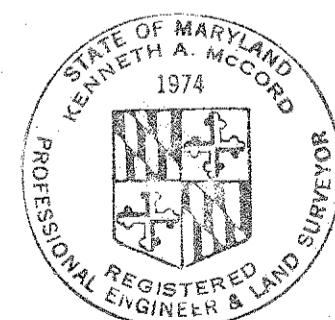
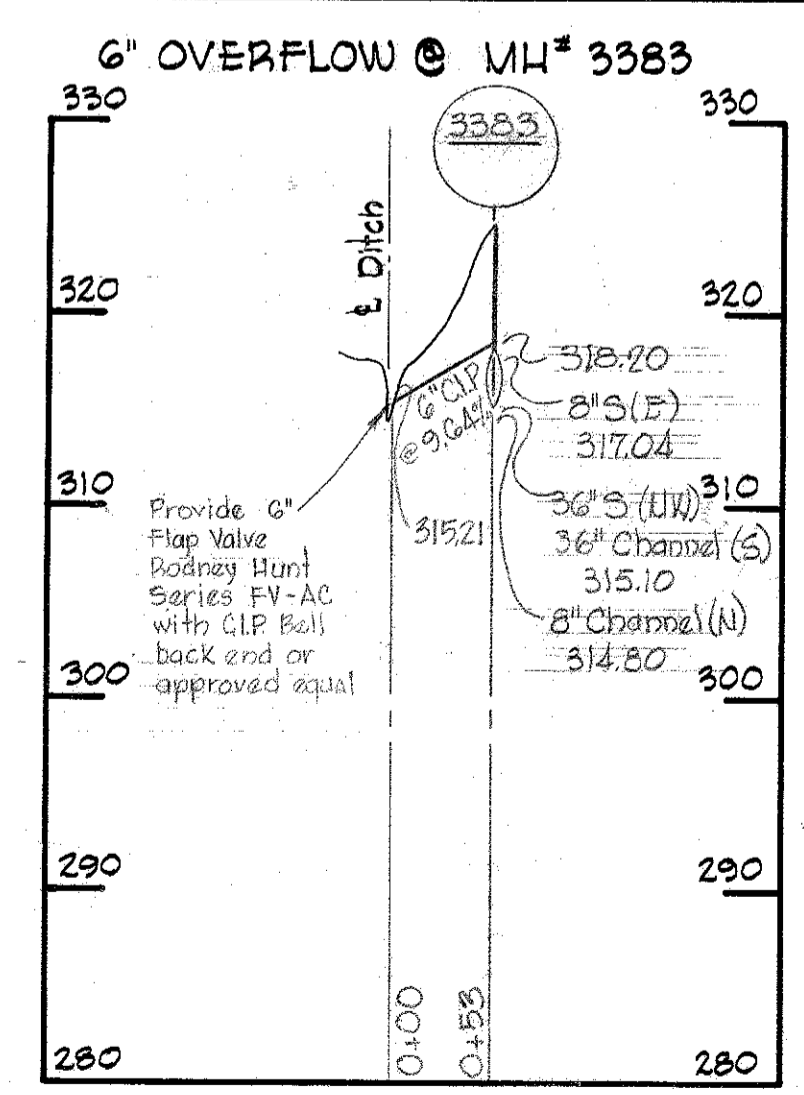
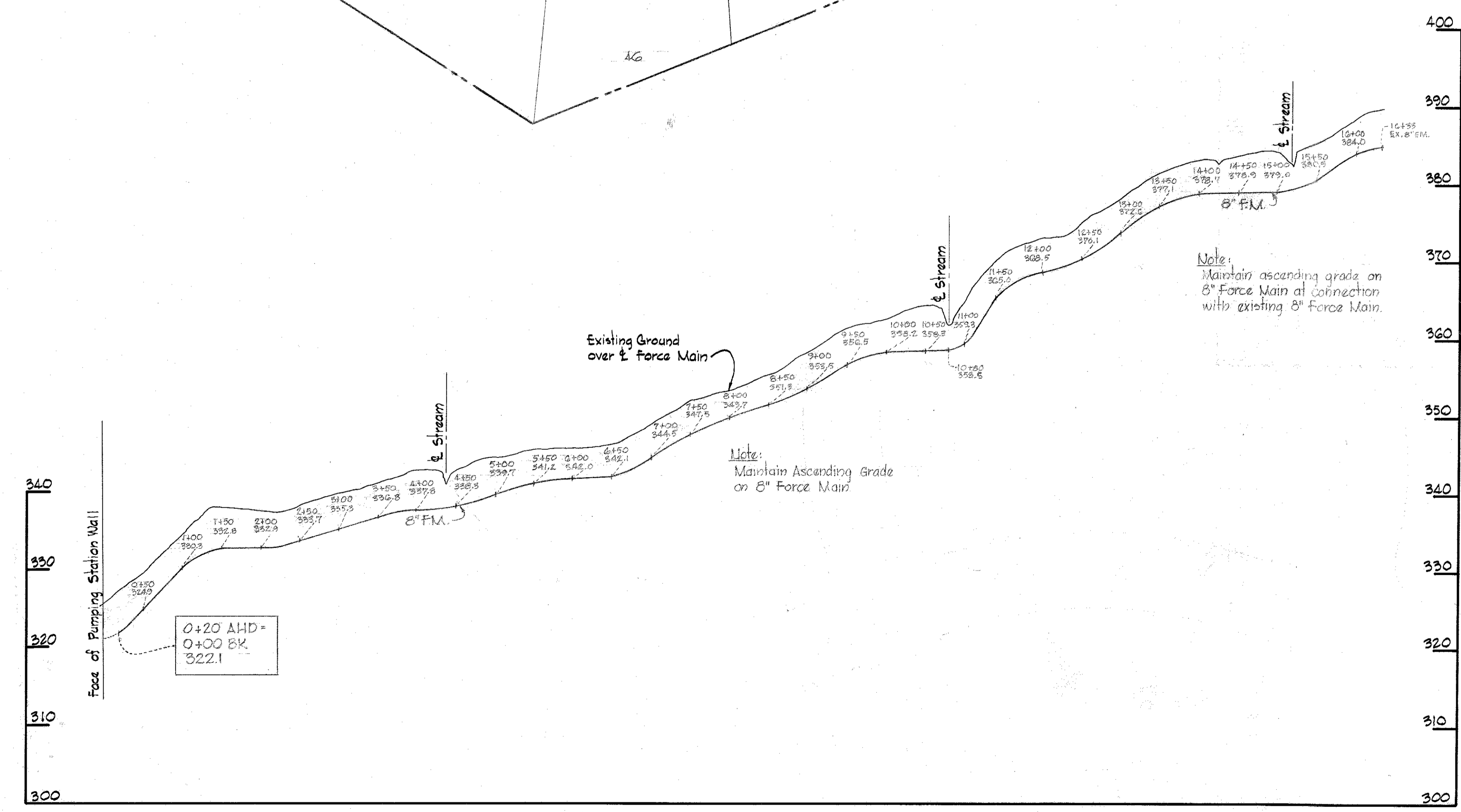
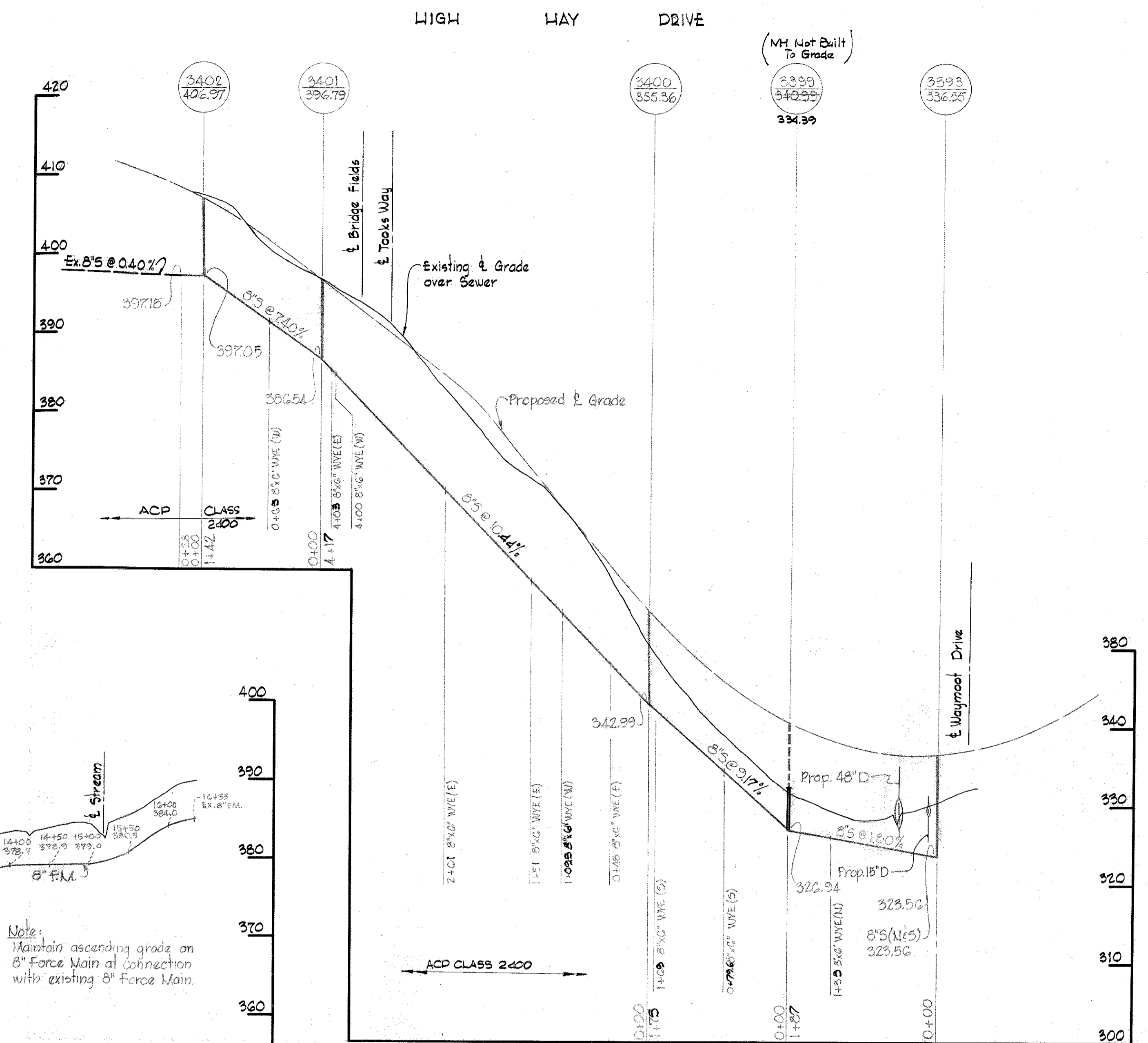
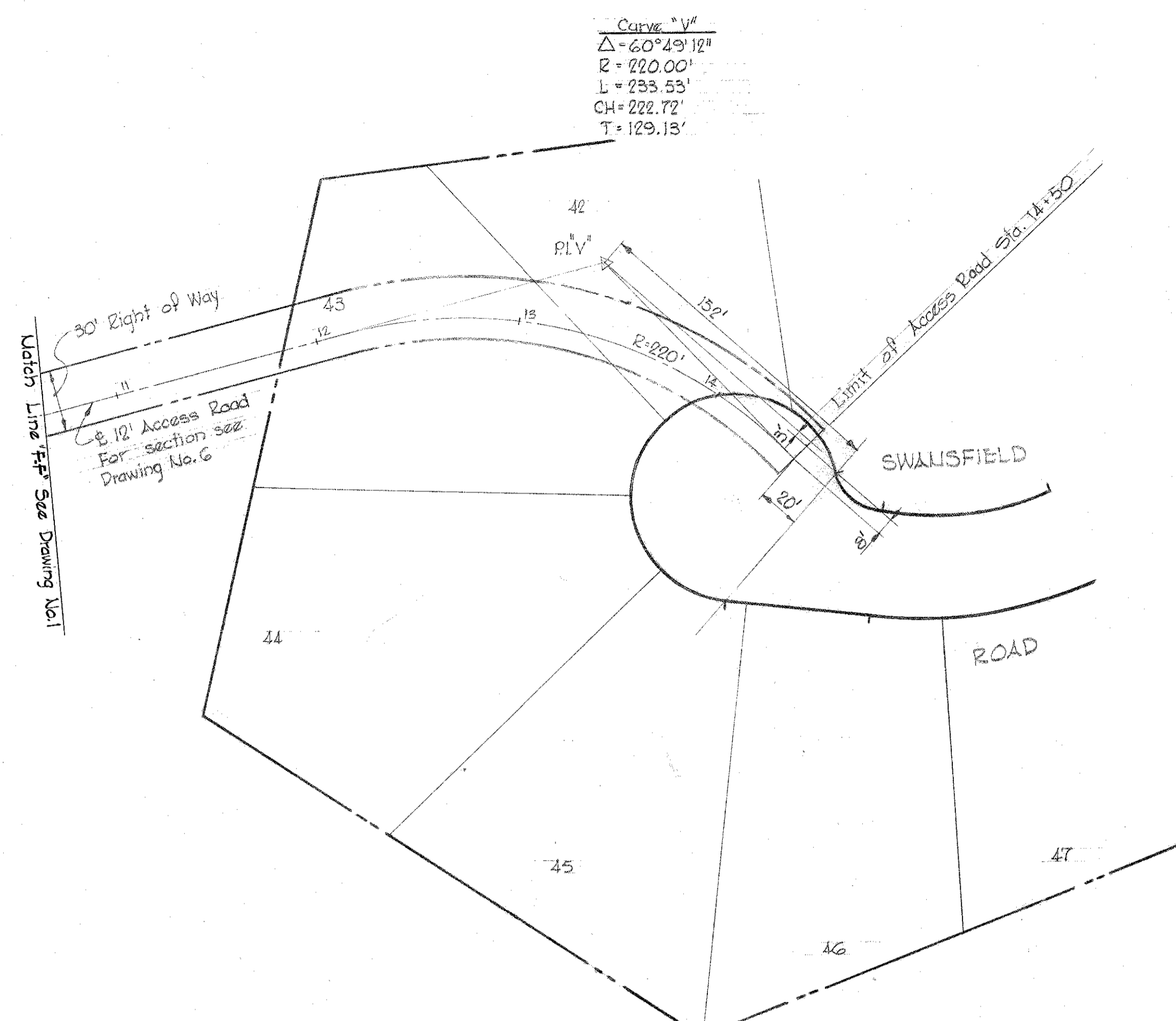
WS 279-S/4

WHITMAN, REQUARDT & ASSOCIATES ENGINEERS 1304 ST. PAUL ST. BALTIMORE, MARYLAND	HOWARD COUNTY METROPOLITAN COMMISSION DATE: 10-1-69 <i>W. O. Pellert</i> CHIEF ENGINEER	CONTRACT NO. C-279-S	PROFILES OF SEWER MAIN	COLUMBIA VILLAGE OF HARPER'S CHOICE ELECTION DISTRICT CLARKSVILLE No. 5	DRAWING NO. 4 OF 6	SCALE: H: 1"=100' V: 1"=10'
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Contract C-279-S

W. O. 6023-2

AS BUILT Nov. 21, 1969



Kenneth A. McCord

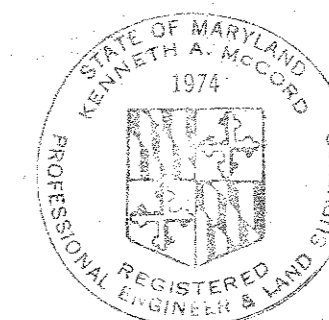
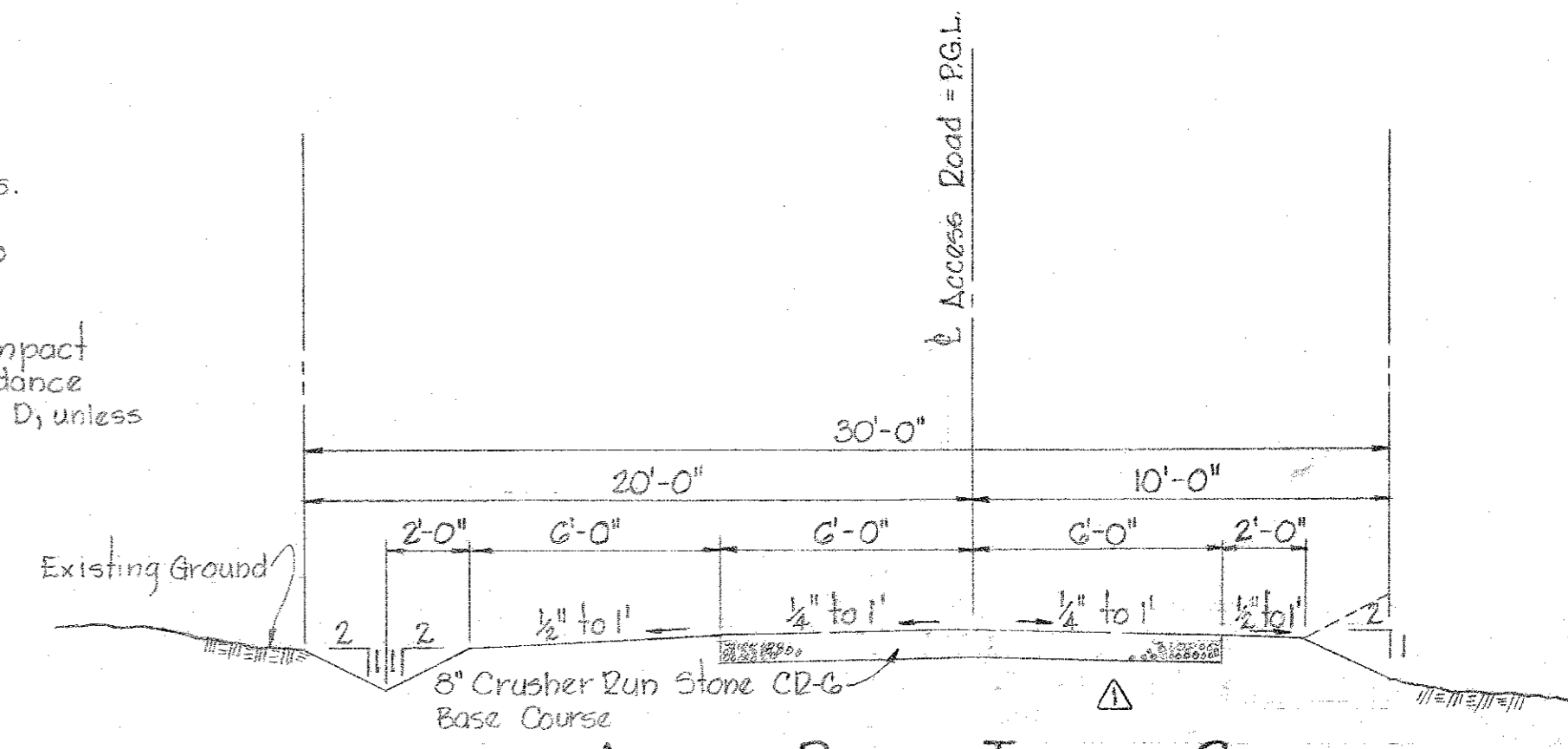
WHITMAN, REQUARDT & ASSOCIATES ENGINEERS 1304 ST. PAUL ST. BALTIMORE, MARYLAND	HOWARD COUNTY METROPOLITAN COMMISSION 10-1-68 DATE <i>W O Fellows</i> CHIEF ENGINEER	CONTRACT NO. C-279-S	PROFILES OF SEWER MAIN	COLUMBIA VILLAGE OF HARPER'S CHOICE ELECTION DISTRICT CLARKVILLE No. 5	CONTRACT C-279-S DRAWING NO. 5 OF 6 SCALE H: 1"=100' V: 1"=10'
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W. O. 6023-2

Nov 21, 1969 AS BUILT

WS 279-S/5

- Notes:
1. Seed and mulch side slopes and ditches.
 2. Provide sod in side ditch Sta. 10+00 to Sta. 14+50
 3. The top 6" of subgrade shall be compact to 90% of maximum density in accordance with the AASHTO Test T 180-57, Method D, unless otherwise directed by the Engineer.

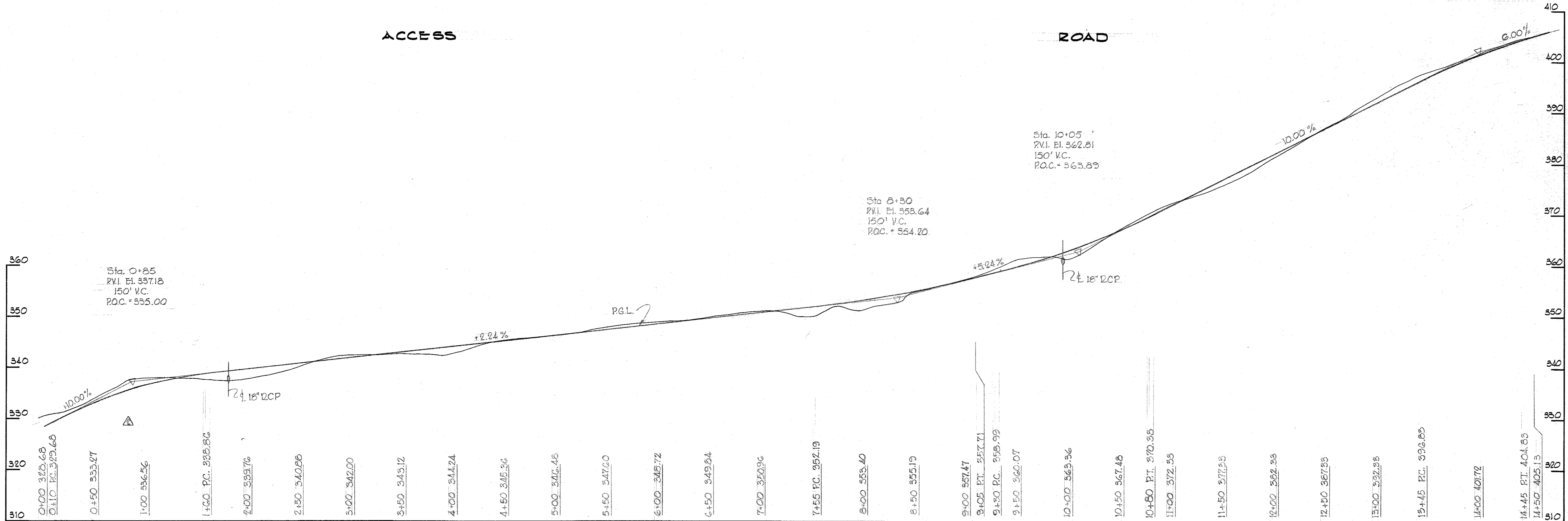


Kenneth A. McLeod

Sta. 13+95
P.V.I. El. 401.81
100' V.C.
P.O.C. = 401.51

ACCESS

ROAD



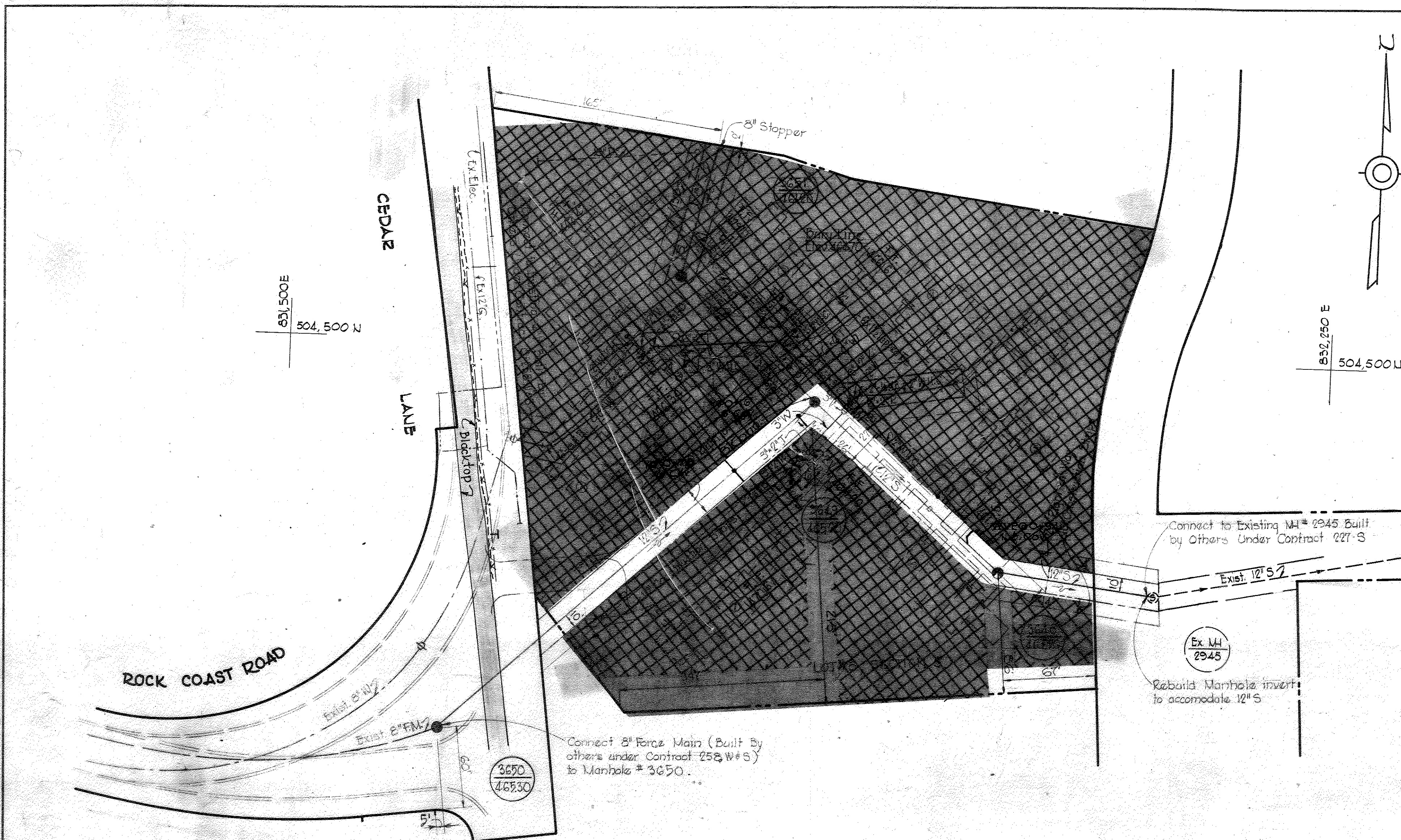
10-16-68	Revised Access Road From Sta. 0+00 to Sta. 1+85
10-7-68	Removed Calcium Chloride From Access Road
	Revision

Contract C-279-5

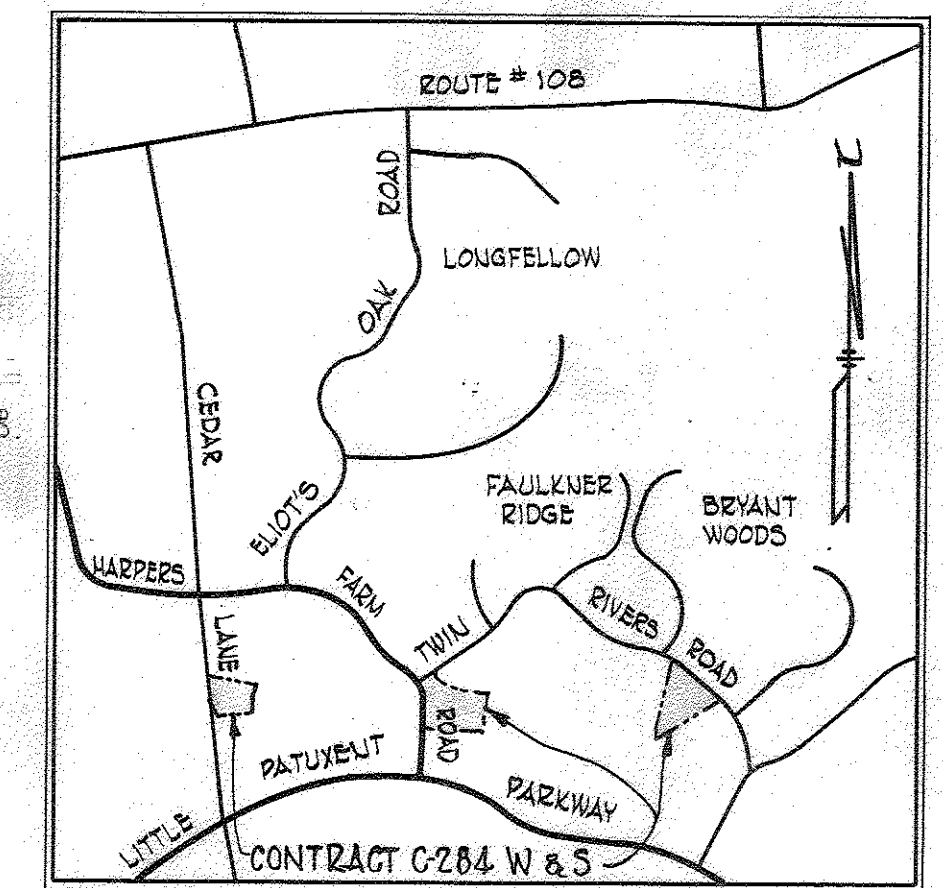
WHITMAN, REQUARDT & ASSOCIATES ENGINEERS 1304 ST. PAUL ST. BALTIMORE, MARYLAND	HOWARD COUNTY METROPOLITAN COMMISSION DATE 10-1-68 <i>W O Peltier</i> CHIEF ENGINEER	CONTRACT NO. C-279-S	PROFILES AND DETAILS OF ACCESS ROAD	COLUMBIA VILLAGE OF HARPER'S CHOICE ELECTION DISTRICT CLARKSVILLE No. 5	DRAWING NO. 6 OF 6	SCALE AS SHOWN
					Nov 21, 1969 AS BUILT	

W. O. 6025-2

NS 279-5/6



Note:
Rim elevations and Bury Line elevations for this Contract were developed from proposed contours shown on Collins and Cronstadt, Izahy, Hogan, Collins Site Grading Plan and Site Details SD-1, Section I, dated October, 1968.



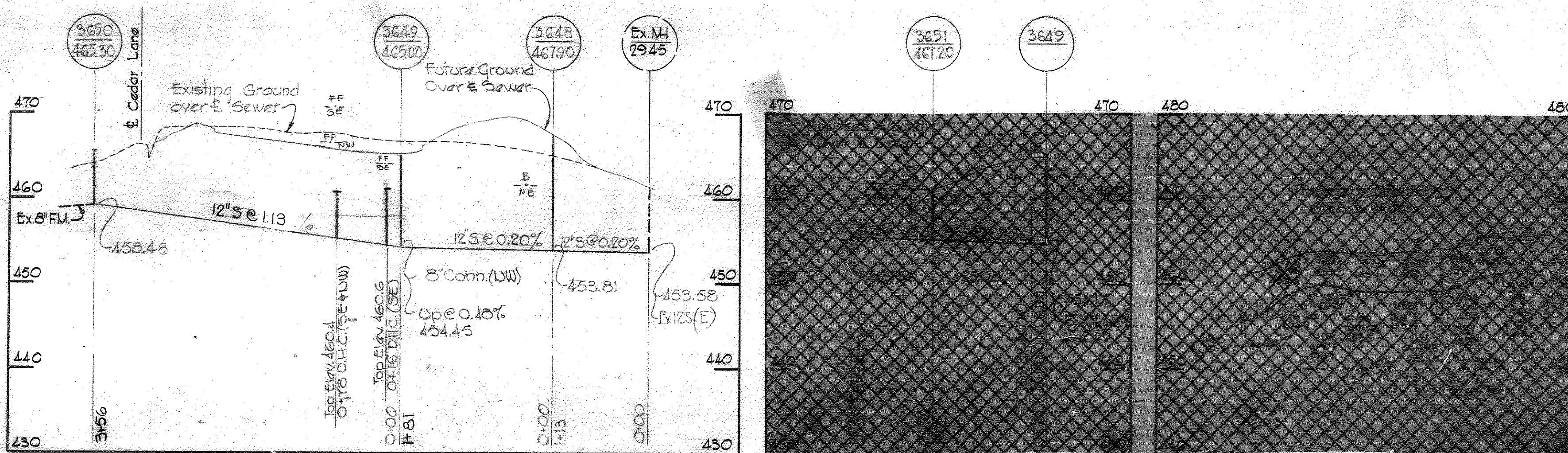
VICINITY MAP
Scale: 1" = 2,000'

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 to be C.I.P. or D.I.P. and have a minimum of 3/4" cover.
6. Block all fittings with concrete, see standard details bound in Specifications.
7. Bury line elevations on fire hydrants shall be set to elevations shown on drawings.
8. All Fire Hydrant shall be strapped to tee and buttressed with concrete in accordance with Standard Detail W-4.
9. Clear all utilities by a minimum of 6', clear all poles by 2'-0" minimum or tunnel as required.
10. The Contractor shall provide a joint in all sewer mains within 2'-0" of exterior manhole walls.

Note:
for MH #3650 build 2'-0" I.D. brick stack from elevation 362.75 to Manhole frame.

PLAN
Scale: 1" = 50'



PROFILES
Scale: Horiz. 1" = 100'
Vert. 1" = 10'

MATERIALS TO BE FURNISHED BY THE COMMISSION	
ITEMS	QUANTITY
3" V	+
6" W	+

QUANTITIES	
12" Sewer	650'
8" Sewer	
6" Water	
3" Water	

Stakeout in F.B.#4258
Cont.# 258 W&S
Diary in F.B.#4313

VHC
Sec 3
Area 4
Lot No. 3
Interfaith I
Contract C-279-S

WHITMAN, REQUARDT & ASSOCIATES ENGINEERS 1304 ST. PAUL ST. BALTIMORE, MARYLAND	HOWARD COUNTY METROPOLITAN COMMISSION DATE: 7-16-69 CHIEF ENGINEER: [Signature]	CONTRACT NO. C-279-S	PLAN & PROFILES OF WATER & SEWER MAINS	COLUMBIA VILLAGE OF HARPER'S CHOICE ELECTION DISTRICT CLARKSVILLE No.5	DRAWING NO. 6-A OF 6 SCALE AS SHOWN 504, 476
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