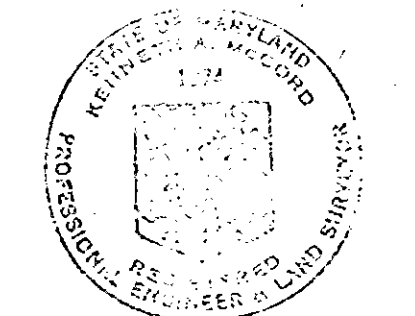


CONTRACT NO. 34-0908-D
VILLAGE OF KINGS CONTRIVANCE
HOWARD COUNTY, MARYLAND
DEPARTMENT OF PUBLIC WORKS

| QUANTITIES | | | |
|-------------------------|------------|------------|------------------------|
| ITEM | BID | AS-BUILT | MATERIAL/SUPPLIER |
| 8" Sewer | 3,210 L.F. | 3,152 L.F. | CERTAIN-TEED |
| Manholes | 152 V.F. | 120 L.F. | C.P. & P. |
| 6" Water | — | — | — |
| 6" Water | 780 L.F. | 750 L.F. | ATLANTIC STATES D.I.P. |
| 8" Valves | — | — | — |
| 6" V (Excluding F.H.V.) | — | — | — |
| Fire Hydrants | 1 | 1 | AMERICAN DARLING |



Howard J. Melrod
 Village of Kings Contrivance
 Section 3, Area 2, Phase II, Part 3
 Contract No. 34-0908-D

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND
James L. Blair 5/15/80
 CHIEF-BUREAU OF UTILITIES—DATE
Richard S. Rely 5-2-80
 CHIEF-BUREAU OF ENGINEERING—DATE
WHITMAN, REQUARDT & ASSOCIATES
 ENGINEERS
 1304 ST. PAUL ST.
 BALTIMORE, MARYLAND

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND
George F. Nemajny
 DIRECTOR OF PUBLIC WORKS
 5-9-80
 DATE

CONTRACT NO. 34-0908-D

LOCATION MAP OF
 WATER & SEWER MAINS

See drawing No. 3 for General Notes

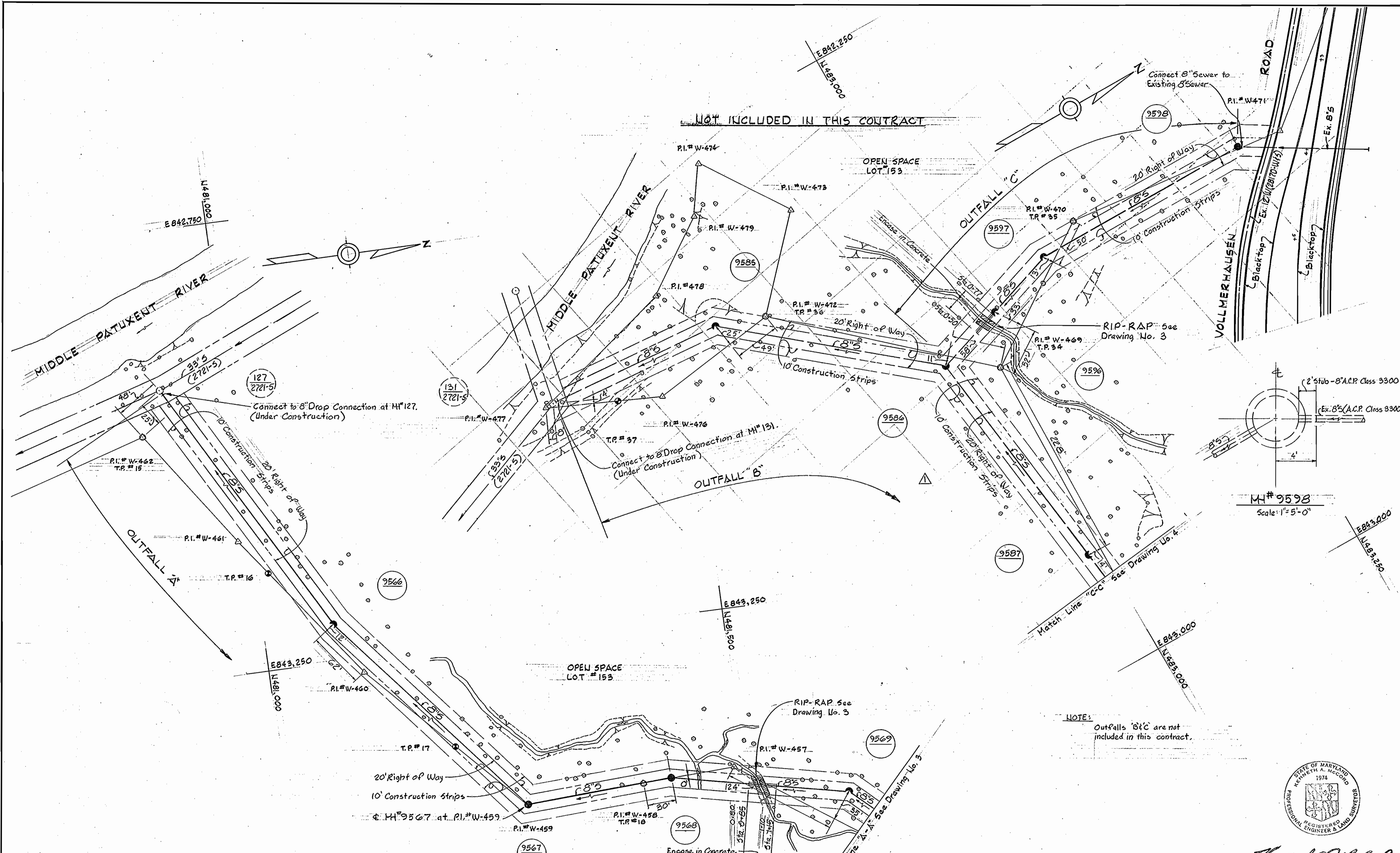
| | |
|-------|-----------------------|
| 1-781 | General Revisions - A |
| DATE | REVISIONS |

COLUMBIA
 VILLAGE OF KINGS CONTRIVANCE
 ELECTION DISTRICT GUILFORD NO. 6

| | |
|----------------|---------|
| DRAWING NO. OF | SCALE |
| 1 OF 6 | 1"=600' |

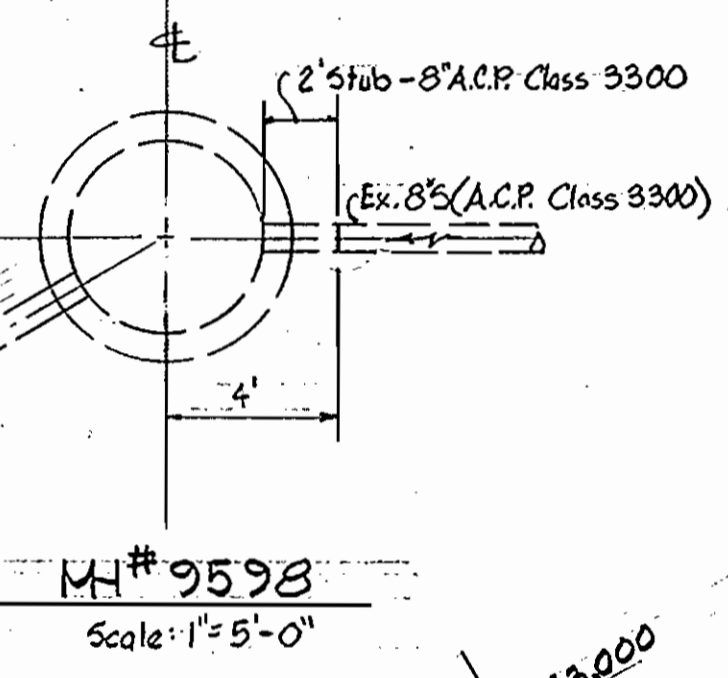
May 2, 1980 As BUILT 7/15/81

WS 0908-WS/1



NOT INCLUDED IN THIS CONTRACT

NOTE: Outfalls 'B' & 'C' are not included in this contract.



DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
James L. Blair, 5/15/80, CHIEF-BUREAU OF UTILITIES-DATE
Richard P. Ray, 5/9/80, CHIEF-BUREAU OF ENGINEERING-DATE
WHITMAN, REQUARDT & ASSOCIATES
ENGINEERS
1304 ST. PAUL ST.
BALTIMORE, MARYLAND

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
5-9-80, DATE
Mark F. Nemmy, DIRECTOR OF PUBLIC WORKS

CONTRACT NO. 34-0908-D

PLAN OF
WATER & SEWER MAINS

COLUMBIA
VILLAGE OF KINGS CONTRIVANCE
ELECTION DISTRICT GUILFORD NO. 6

DRAWING NO. 2 OF 6
SCALE AS SHOWN
42,480,843.5
42,481,843.5
42,482,843.5
42,483,843.5

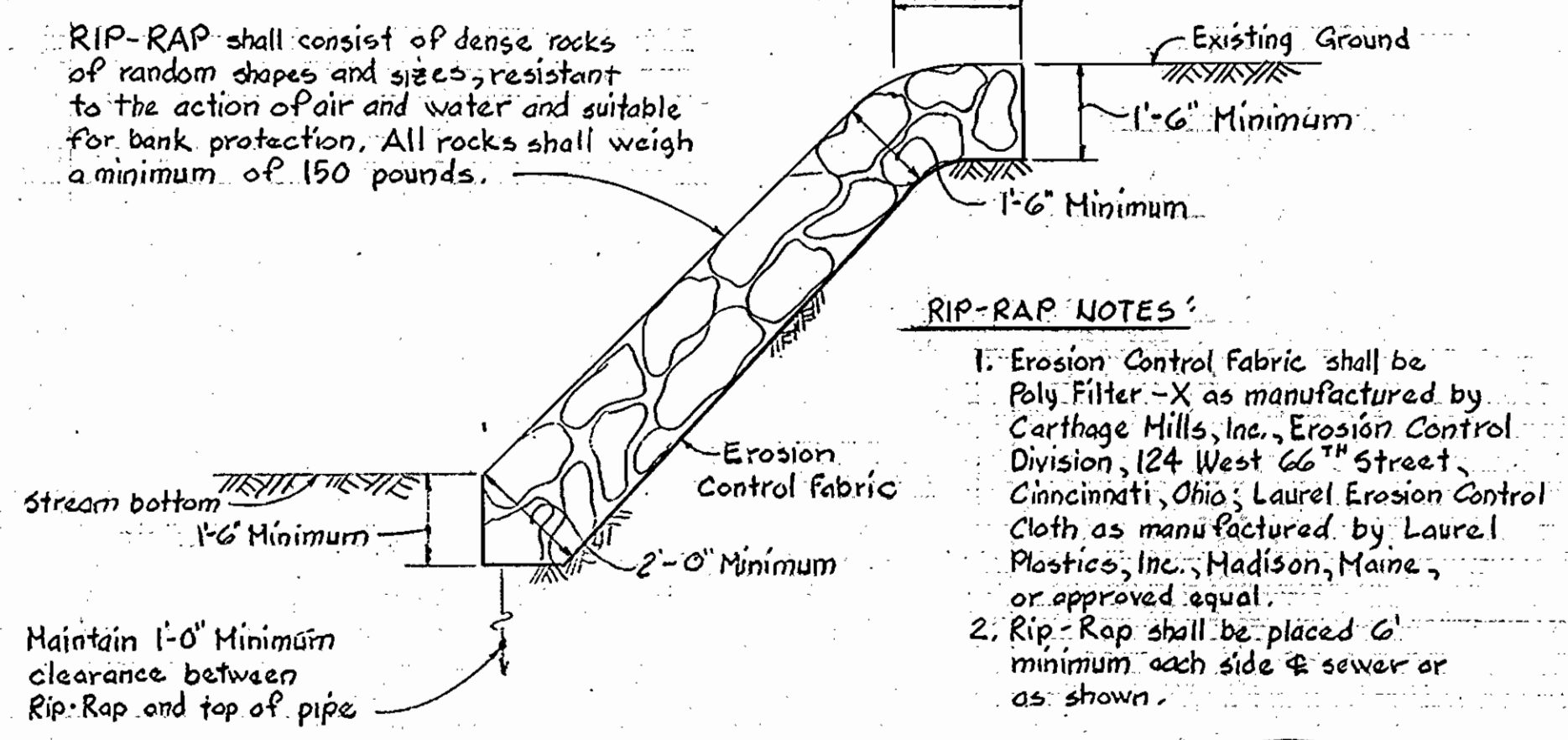
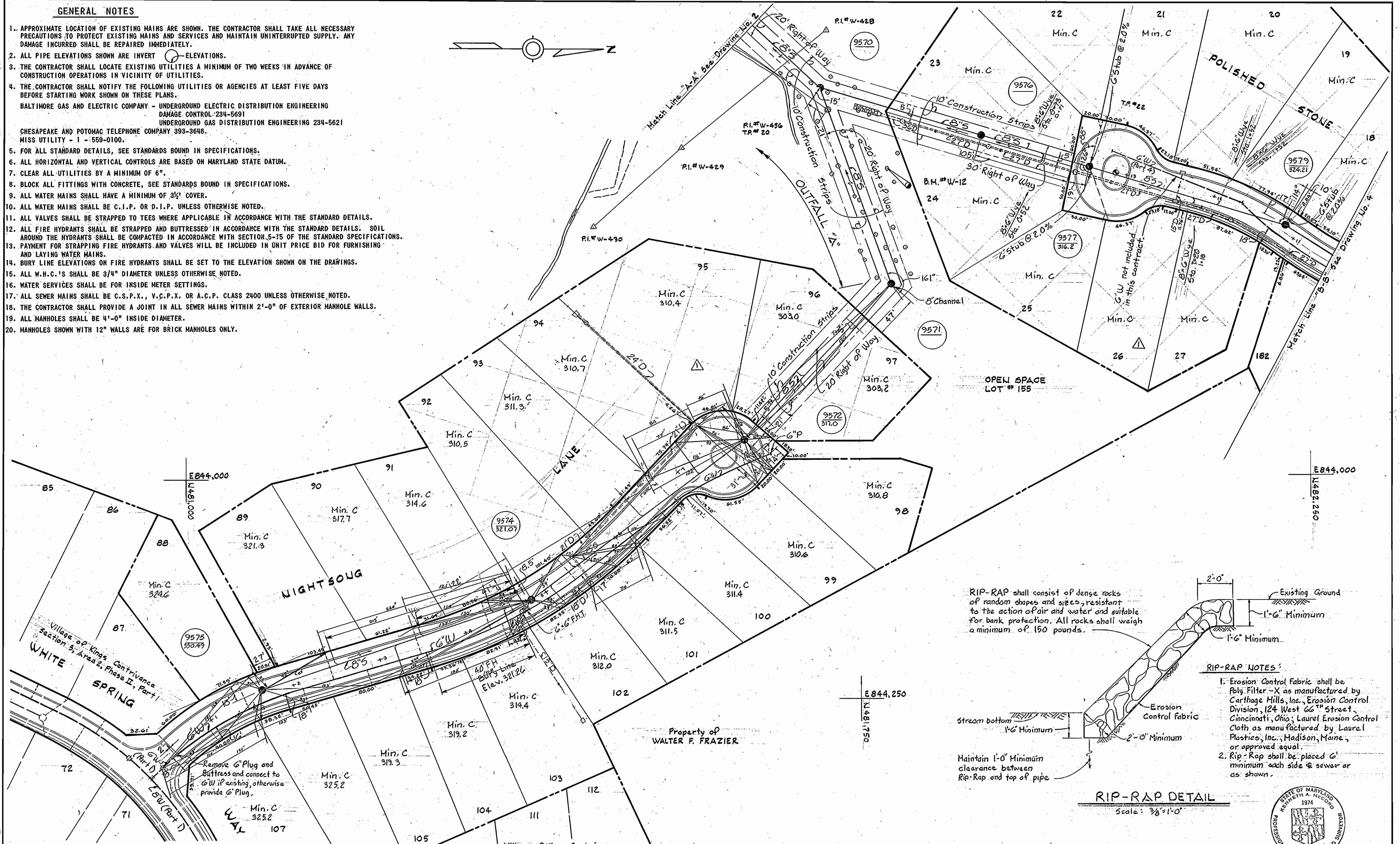
W.O. 7500-2

F.B.# 6353, 6356
May 2, 1980 AD BUILT 7/15/81

WS 0908 - WS / 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 \odot ELEVATIONS.
3. THE CONTRACTOR SHALL LOCATE EXISTING UTILITIES A MINIMUM OF TWO WEEKS IN ADVANCE OF CONSTRUCTION OPERATIONS IN VICINITY OF UTILITIES.
4. THE CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITIES OR AGENCIES AT LEAST FIVE DAYS BEFORE STARTING WORK SHOWN ON THESE PLANS.
BALTIMORE GAS AND ELECTRIC COMPANY - UNDERGROUND ELECTRIC DISTRIBUTION ENGINEERING DAMAGE CONTROL 234-5691
UNDERGROUND GAS DISTRIBUTION ENGINEERING 234-5621
CHESAPEAKE AND POTOMAC TELEPHONE COMPANY 393-3648.
MISS UTILITY - 1 - 559-0100.
5. FOR ALL STANDARD DETAILS, SEE STANDARDS BOUND IN SPECIFICATIONS.
6. ALL HORIZONTAL AND VERTICAL CONTROLS ARE BASED ON MARYLAND STATE DATUM.
7. CLEAR ALL UTILITIES BY A MINIMUM OF 6".
8. BLOCK ALL FITTINGS WITH CONCRETE, SEE STANDARDS BOUND IN SPECIFICATIONS.
9. ALL WATER MAINS SHALL HAVE A MINIMUM OF 3/4" COVER.
10. ALL WATER MAINS SHALL BE C.I.P. OR D.I.P. UNLESS OTHERWISE NOTED.
11. ALL VALVES SHALL BE STRAPPED TO TEES WHERE APPLICABLE IN ACCORDANCE WITH THE STANDARD DETAILS.
12. ALL FIRE HYDRANTS SHALL BE STRAPPED AND BUTTRESSED IN ACCORDANCE WITH THE STANDARD DETAILS. SOIL AROUND THE HYDRANTS SHALL BE COMPACTED IN ACCORDANCE WITH SECTION 5-15 OF THE STANDARD SPECIFICATIONS.
13. PAYMENT FOR STRAPPING FIRE HYDRANTS AND VALVES WILL BE INCLUDED IN UNIT PRICE BID FOR FURNISHING AND LAYING WATER MAINS.
14. BURY LINE ELEVATIONS ON FIRE HYDRANTS SHALL BE SET TO THE ELEVATION SHOWN ON THE DRAWINGS.
15. ALL W.H.C.'S SHALL BE 3/4" DIAMETER UNLESS OTHERWISE NOTED.
16. WATER SERVICES SHALL BE FOR INSIDE METER SETTINGS.
17. ALL SEWER MAINS SHALL BE C.S.P.X., V.C.P.X. OR A.C.P. CLASS 2400 UNLESS OTHERWISE NOTED.
18. THE CONTRACTOR SHALL PROVIDE A JOINT IN ALL SEWER MAINS WITHIN 2'-0" OF EXTERIOR MANHOLE WALLS.
19. ALL MANHOLES SHALL BE 4'-0" INSIDE DIAMETER.
20. MANHOLES SHOWN WITH 12" WALLS ARE FOR BRICK MANHOLES ONLY.



DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
James L. Collins 5/6/80
CHIEF-BUREAU OF UTILITIES - DATE
Whitman, Requardt & Associates
ENGINEERS
1304 ST. PAUL ST.
BALTIMORE, MARYLAND

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
5-9-80
DATE
Joseph F. Newman
DIRECTOR OF PUBLIC WORKS

CONTRACT NO. 34-0908-D
PLAN & DETAIL OF
WATER & SEWER MAINS

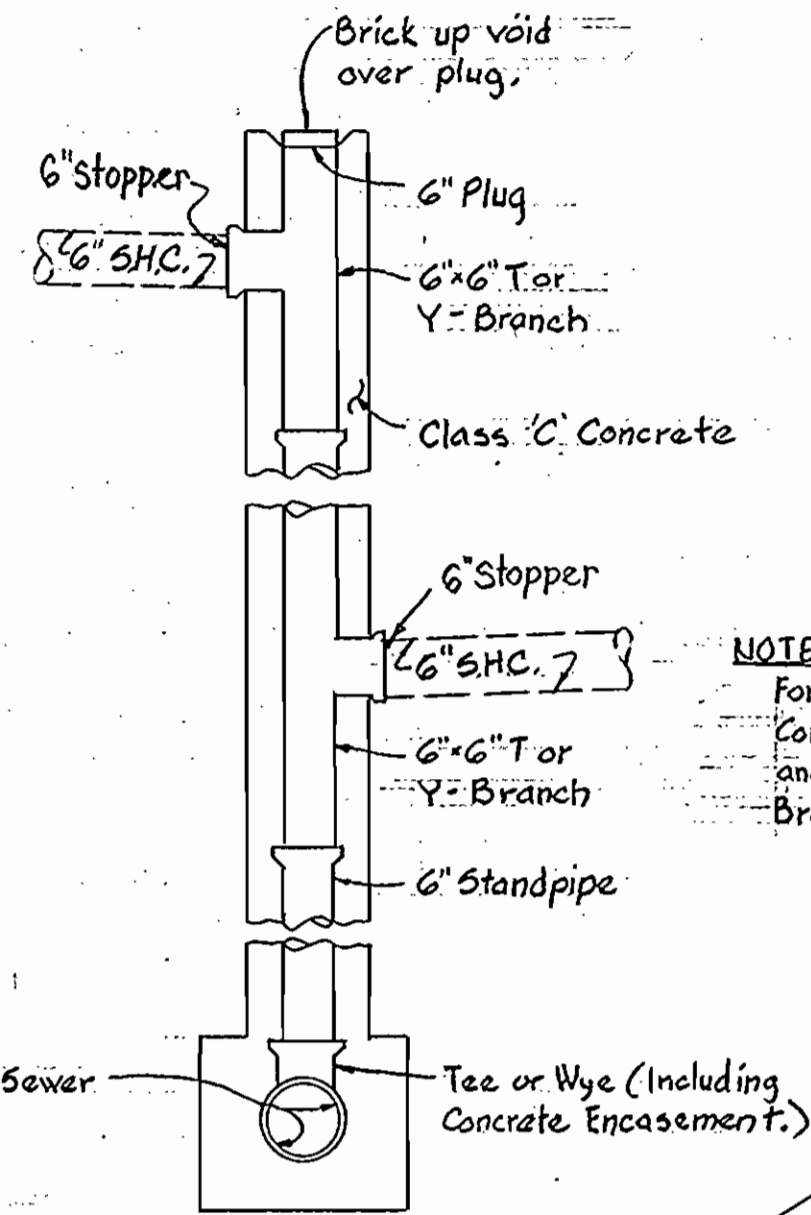
COLUMBIA
VILLAGE OF KINGS CONTRIVANCE
ELECTION DISTRICT GUILFORD NO. 6

DRAWING NO. 3 OF 6
SCALE AS SHOWN
42,481,845
F.B. # 6953
May 2, 1980 AS BUILT 7/13/81

WS 0908 -WS / 3

BENCH MARKS

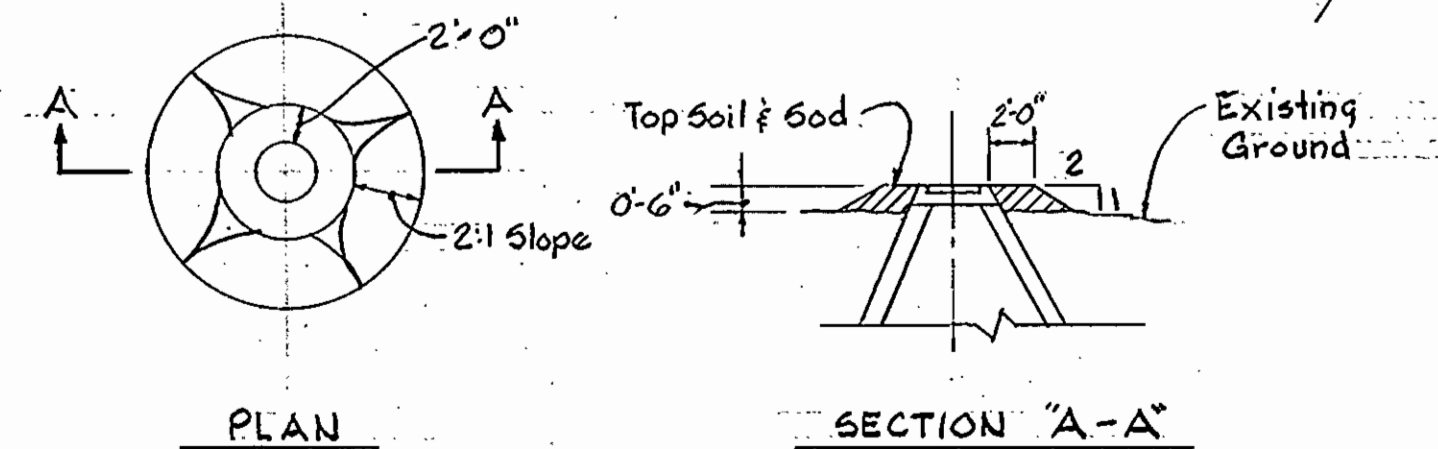
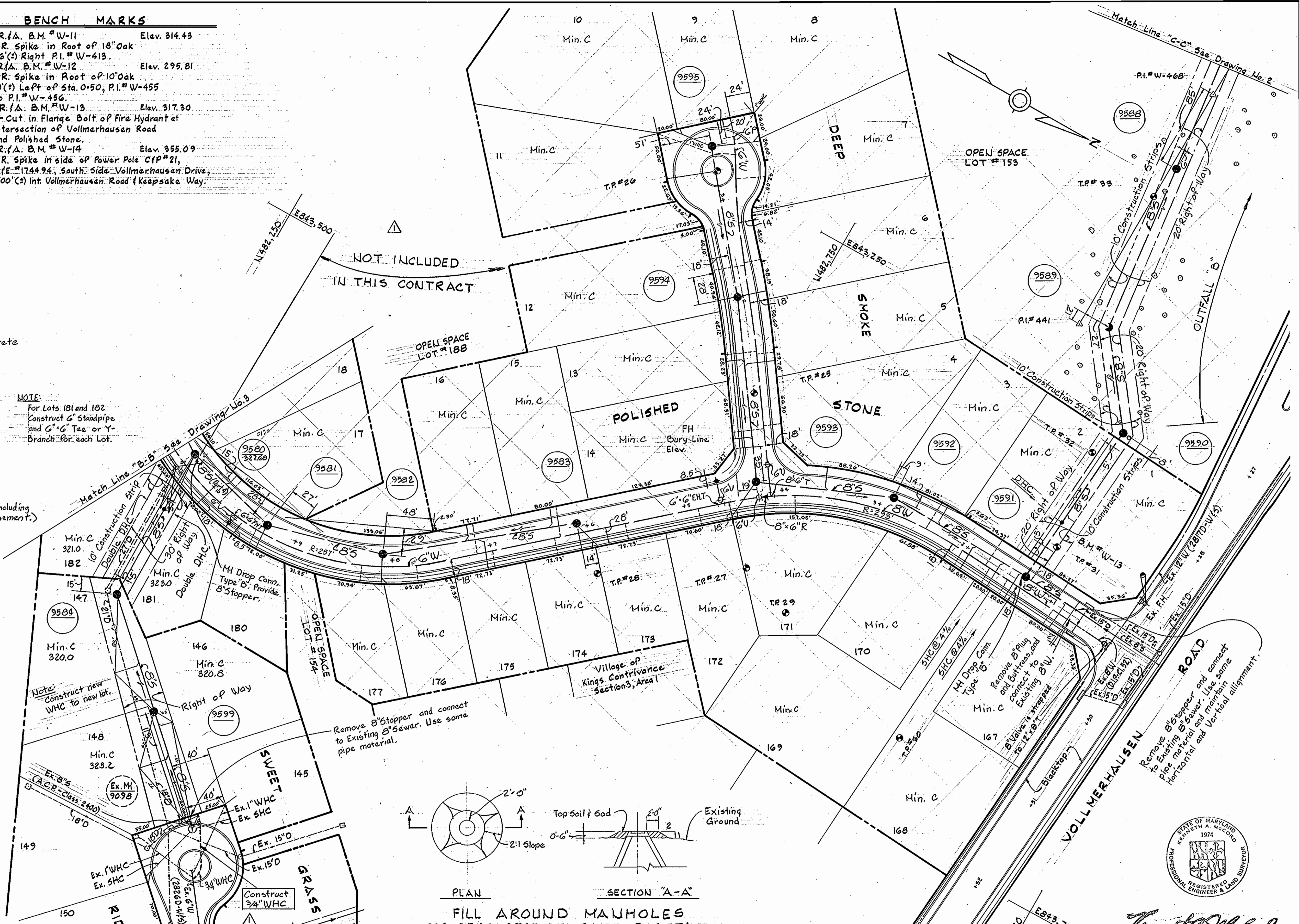
- W.R.F.A. B.M. #W-11 Elev. 314.43
- R.R. Spike in Root of 18" Oak 86' (?) Right P.I. #W-413
- W.R.F.A. B.M. #W-12 Elev. 295.81
- R.R. Spike in Root of 10" Oak 50' (?) Left of Sta. 0+50, P.I. #W-455 to P.I. #W-456
- W.R.F.A. B.M. #W-13 Elev. 317.30
- X-Cut in Flange Bolt of Fire Hydrant at Intersection of Vollmerhausen Road and Polished Stone
- W.R.F.A. B.M. #W-14 Elev. 355.09
- R.R. Spike in side of Power Pole CIP #21, G.F.E. #174494, South Side Vollmerhausen Drive, 600' (?) Int. Vollmerhausen Road & Keepsake Way.



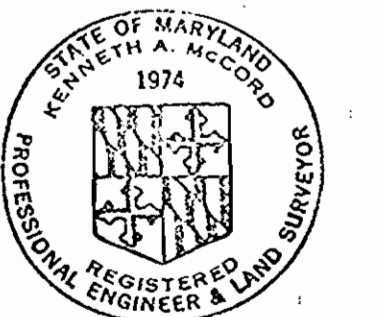
NOTE:
For Lots 181 and 182 Construct 6" Standpipe and 6" Tee or Y-Branch for each Lot.

Note:
This Detail is an alternate to Standard Detail S-17.

DETAIL OF DOUBLE DROP HOUSE CONNECTION
Scale: 1/2" = 1'-0"



FILL AROUND MANHOLES
9584, 9566, 9567, 9568, 9569, 9570,
9571, 9576, 9585, 9586, 9587, 9588,
9589, 9590, 9596, 9597, AND 9598



Kenneth A. McLeod

Village of Kings Contrivance
Section 3, Area 2, Phase II, Part 3
Contract No. 34-0908-D

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
John R. Plevin 5/15/80
CHIEF - BUREAU OF UTILITIES - DATE

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

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
5-8-80
DATE
George F. Neimeyer
DIRECTOR OF PUBLIC WORKS

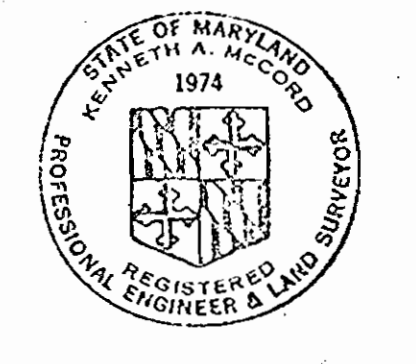
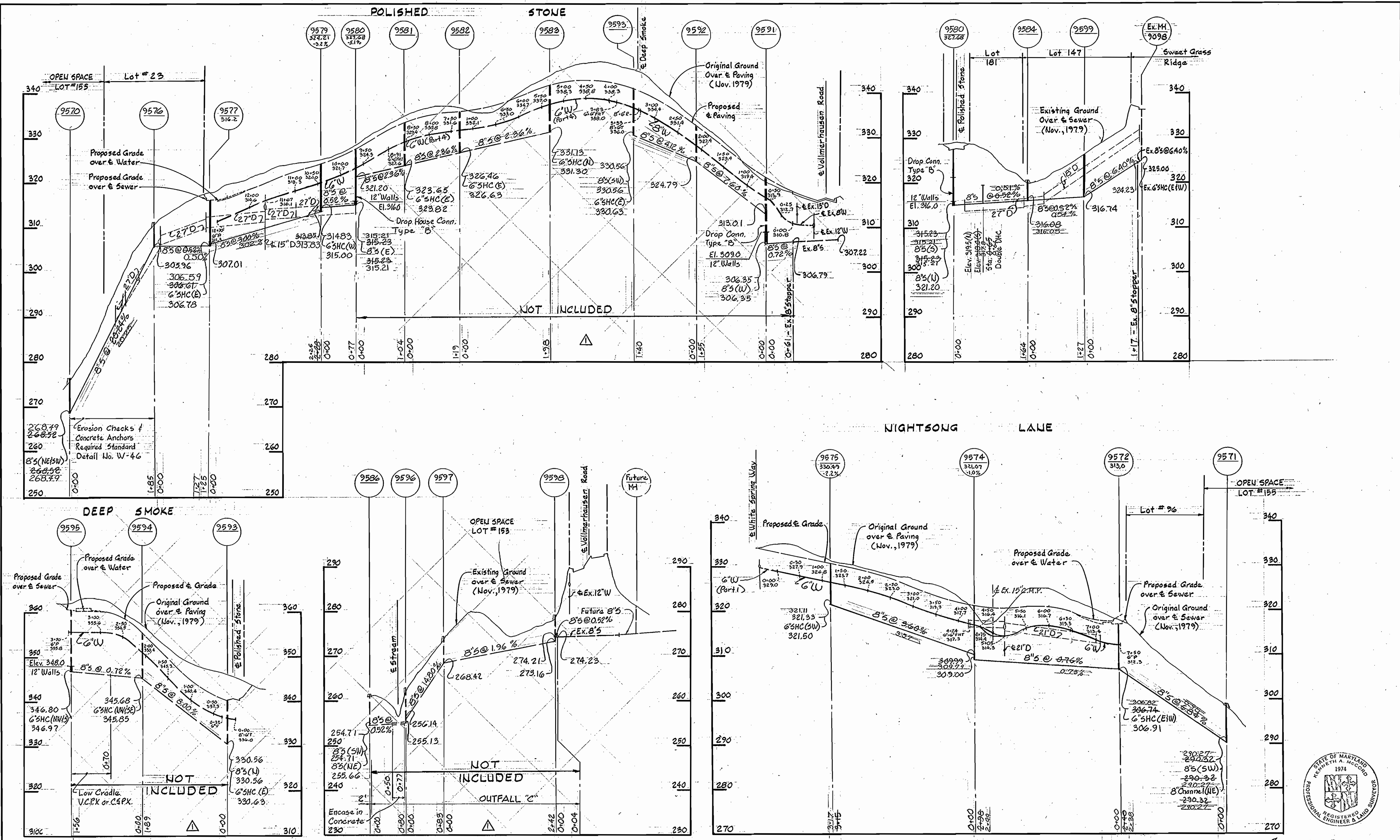
CONTRACT NO. 34-0908-D

PLAN & DETAILS OF
WATER & SEWER MAINS

COLUMBIA
VILLAGE OF KINGS CONTRIVANCE
ELECTION DISTRICT GUILFORD NO. 6

DRAWING
NO. 4
OF 6
SCALE
AS SHOWN
42,482,8435
42,483,8435

WS 0908 WS/4
WS



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Village of Kings Contrivance
 Section 3, Area 2, Phase II, Part 3
 Contract No. 34-0908-D

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND
Anna L. Plevin 5/15/80
 CHIEF-BUREAU OF UTILITIES-DATE
Richard E. Riley 5/15/80
 CHIEF-BUREAU OF ENGINEERING & DATE
WHITMAN, REARDT & ASSOCIATES
 ENGINEERS
 1304 ST. PAUL ST.
 BALTIMORE, MARYLAND

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND
 5-9-80
 DATE
Henry F. Nemy
 DIRECTOR OF PUBLIC WORKS

CONTRACT NO. 34-0908-D

PROFILES OF
 WATER & SEWER MAINS

COLUMBIA
 VILLAGE OF KINGS CONTRIVANCE
 ELECTION DISTRICT GUILFORD NO. 6

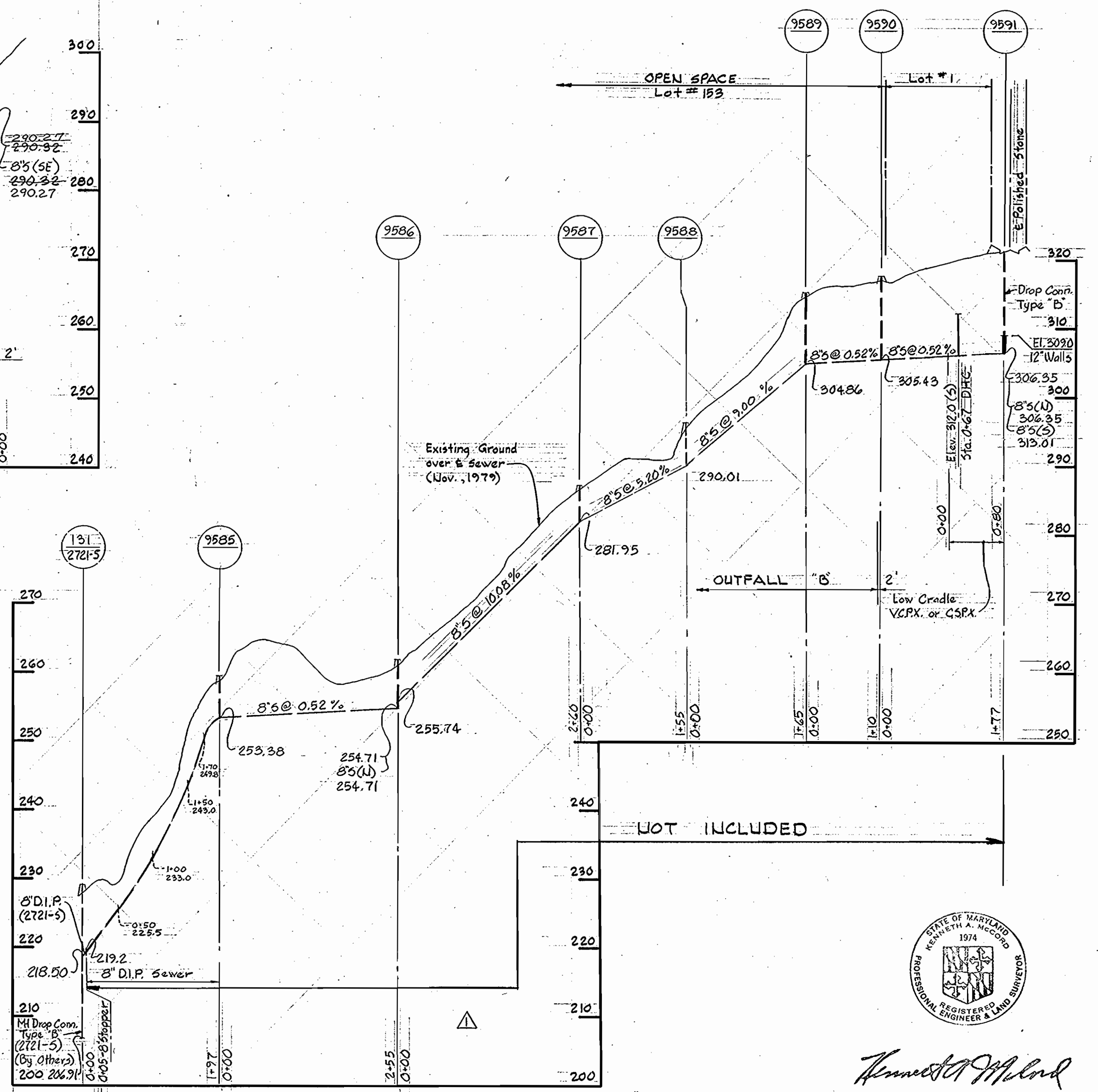
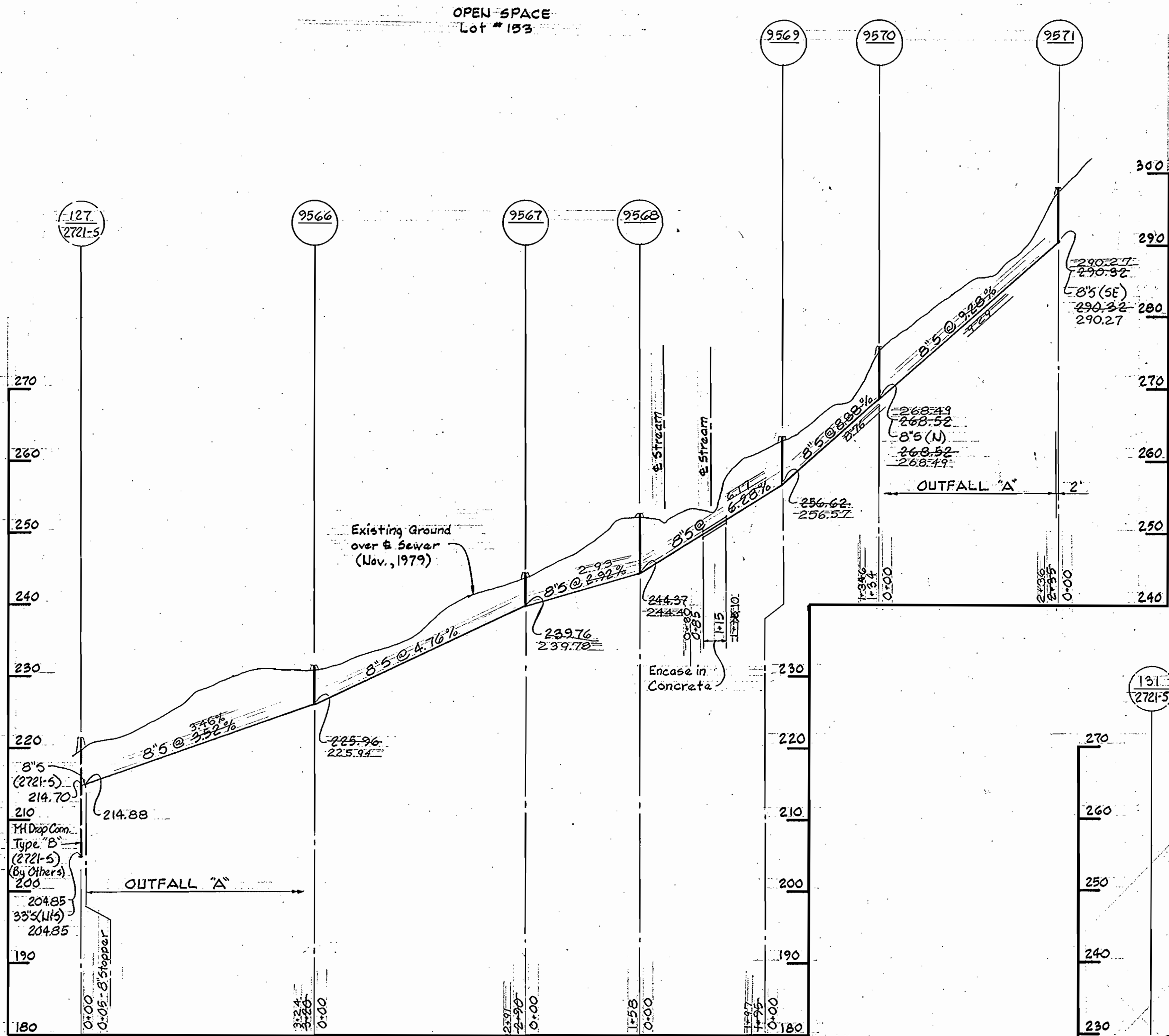
DRAWING NO. 5 OF 6
 SCALE H:V=100'
 V:1"=10'

W. O. 7500-2

May 25, 1980 AS BUILT 7/15/81

AS-BUILT 7/15/81
 I.C.

WS 0908-WS/5



DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

James L. Ellis 5/5/80
CHIEF-BUREAU OF UTILITIES—DATE

William S. Reed 5-9-80
CHIEF-BUREAU OF ENGINEERING—DATE

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

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

Wayne F. Nemmy
DIRECTOR OF PUBLIC WORKS

5-8-80
DATE

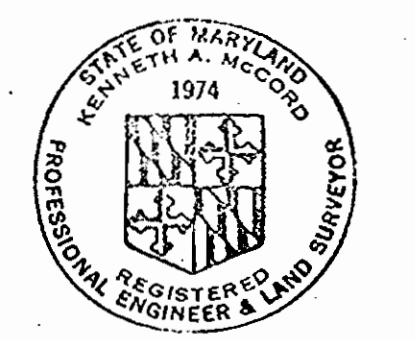
CONTRACT NO. 34-0908-D

PROFILES OF
WATER & SEWER MAINS

COLUMBIA
VILLAGE OF KINGS CONTRIVANCE
ELECTION DISTRICT GUILFORD NO.6

DRAWING NO. 6 OF 6
SCALE H:1"=100' V:1"=10'

Village of Kings Contrivance
Section 3, Area 2, Phase II, Part 3
Contract No. 34-0908-D



Kenneth J. Melrod

| | | |
|--------|-------------------|---|
| 1-7-81 | General Revisions | Δ |
| DATE | REVISIONS | |

WS 0908-WS/6