

CONTRACT NO. 2818D-W&S
VILLAGE OF KINGS CONTRIVANCE
HOWARD COUNTY, MARYLAND
DEPARTMENT OF PUBLIC WORKS

QUANTITIES			
ITEM	BID	AS-BUILT	MATERIAL/SUPPLIER
10" Sewer	530 LF	434	ACP
8" Sewer	4910 LF	382	
Manholes	335 VF		
8" Water	1,760 LF	1887	DIP
6" Water	2,070 LF	1517	
Fire Hydrants	8		



Howard M. Lord

Village of Kings Contrivance
 Section 3, Area 1, Phase II
 Contract No. 2818D-W&S

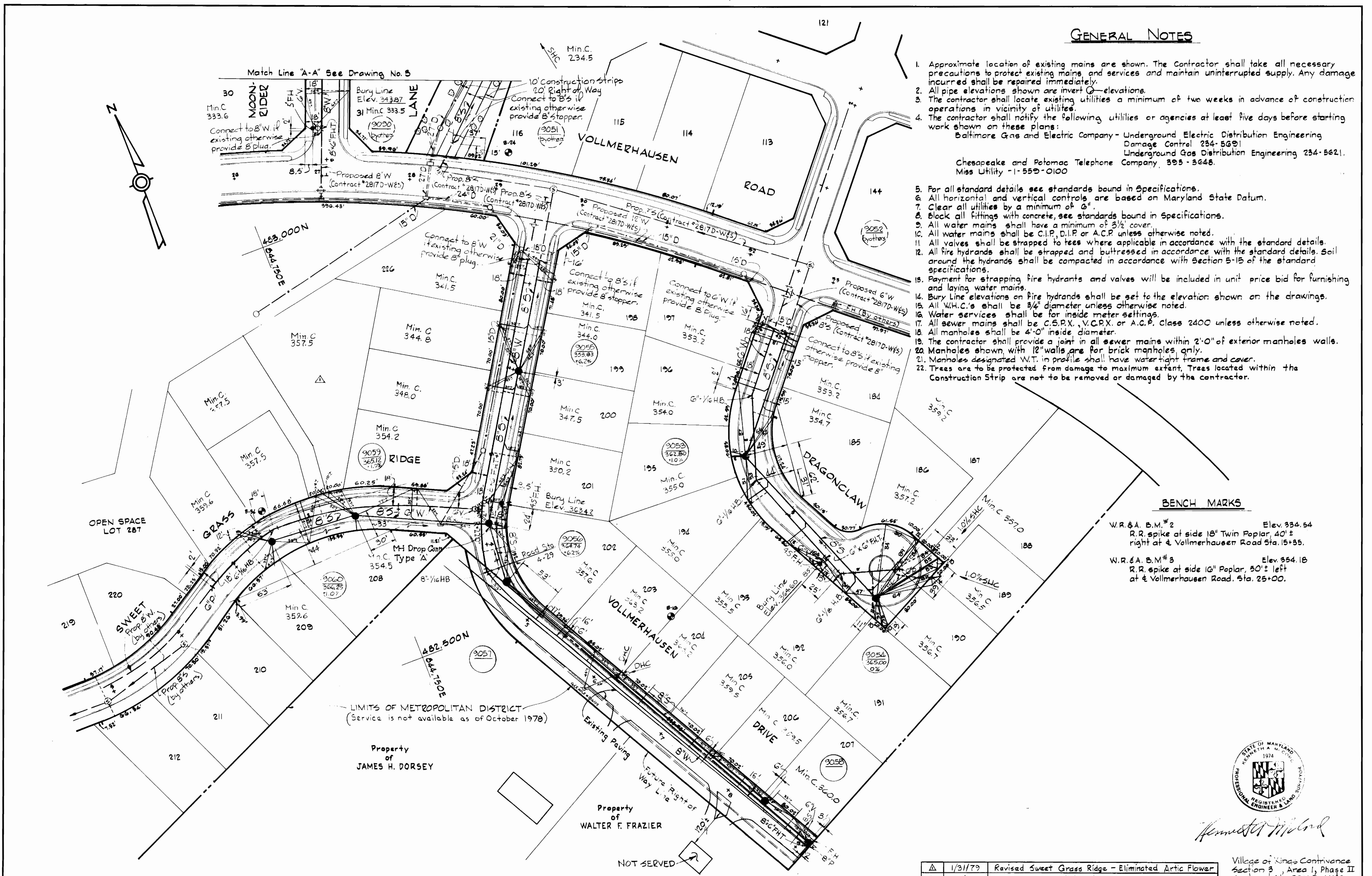
WHITMAN, REQUARDT & ASSOCIATES ENGINEERS 1304 ST. PAUL ST. BALTIMORE, MARYLAND	DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND <i>Robert S. Brudenberg</i> 10/24/78 DIRECTOR OF PUBLIC WORKS	CONTRACT NO. 2818D -W&S <i>W. O. Libby</i> 10-23-78 CHIEF BUREAU OF ENGINEERING - DATE	LOCATION MAP OF WATER & SEWER MAINS	COLUMBIA VILLAGE OF KINGS CONTRIVANCE ELECTION DISTRICT GUILFORD NO. 6	DRAWING NO. 1 OF 5 SCALE 1" = 600'
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GENERAL NOTES

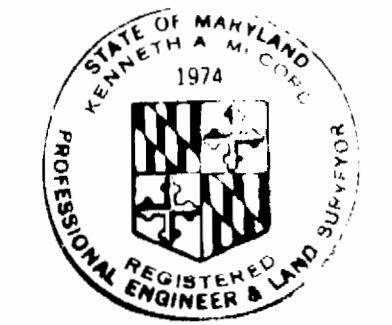
1. Approximate location of existing mains are shown. The Contractor shall take all necessary precautions to protect existing mains and services and maintain uninterrupted supply. Any damage incurred shall be repaired immediately.
2. All pipe elevations shown are invert elevations.
3. The contractor shall locate existing utilities a minimum of two weeks in advance of construction operations in vicinity of utilities.
4. The 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 234-5601
 Undergound Gas Distribution Engineering 234-5621.
 Chesapeake and Potomac Telephone Company, 393-3648.
 Miss Utility - 1-550-0100
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 1/2' cover.
10. All water mains shall be C.I.P., D.I.P. or A.C.P. unless otherwise noted.
11. All valves shall be strapped to trees 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. All manholes shall be 4'-0" inside diameter.
19. The contractor shall provide a joint in all sewer mains within 2'-0" of exterior manholes walls.
20. Manholes shown, with 12" walls are for brick manholes only.
21. Manholes designated W.T. in profile shall have water tight frame and cover.
22. Trees are to be protected from damage to maximum extent. Trees located within the Construction Strip are not to be removed or damaged by the contractor.

BENCH MARKS

- W.R. & A. B.M. #2 Elev. 334.54
R.R. spike at side 18" Twin Poplar, 40'± right at & Vollmerhausen Road Sta. 15+35.
- W.R. & A. B.M. #3 Elev. 354.18
R.R. spike at side 10" Poplar, 50'± left at & Vollmerhausen Road. Sta. 25+00.



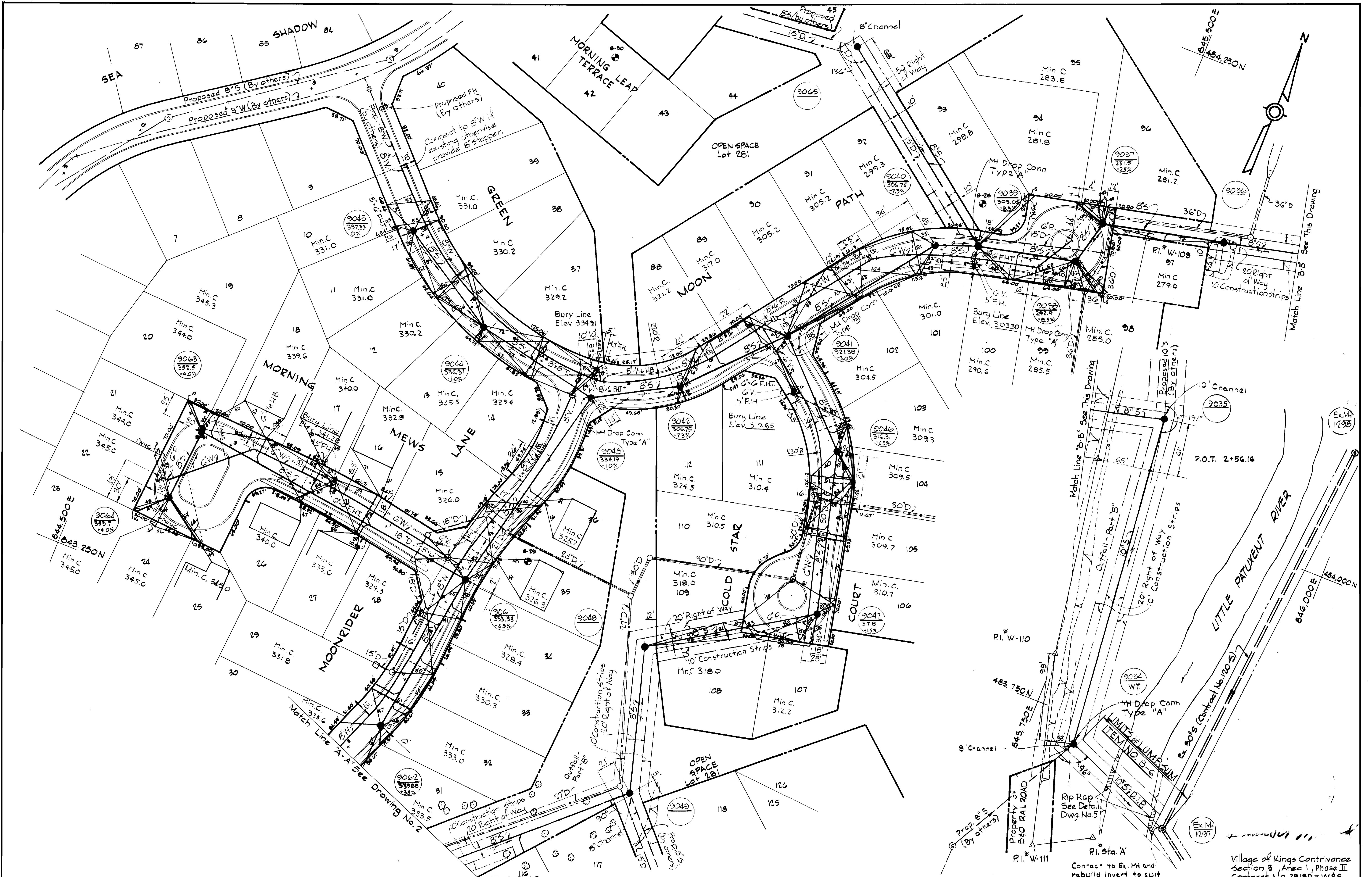
Δ	1/31/79	Revised Sweet Grass Ridge - Eliminated Artic Flower
No.	Date	REVISION



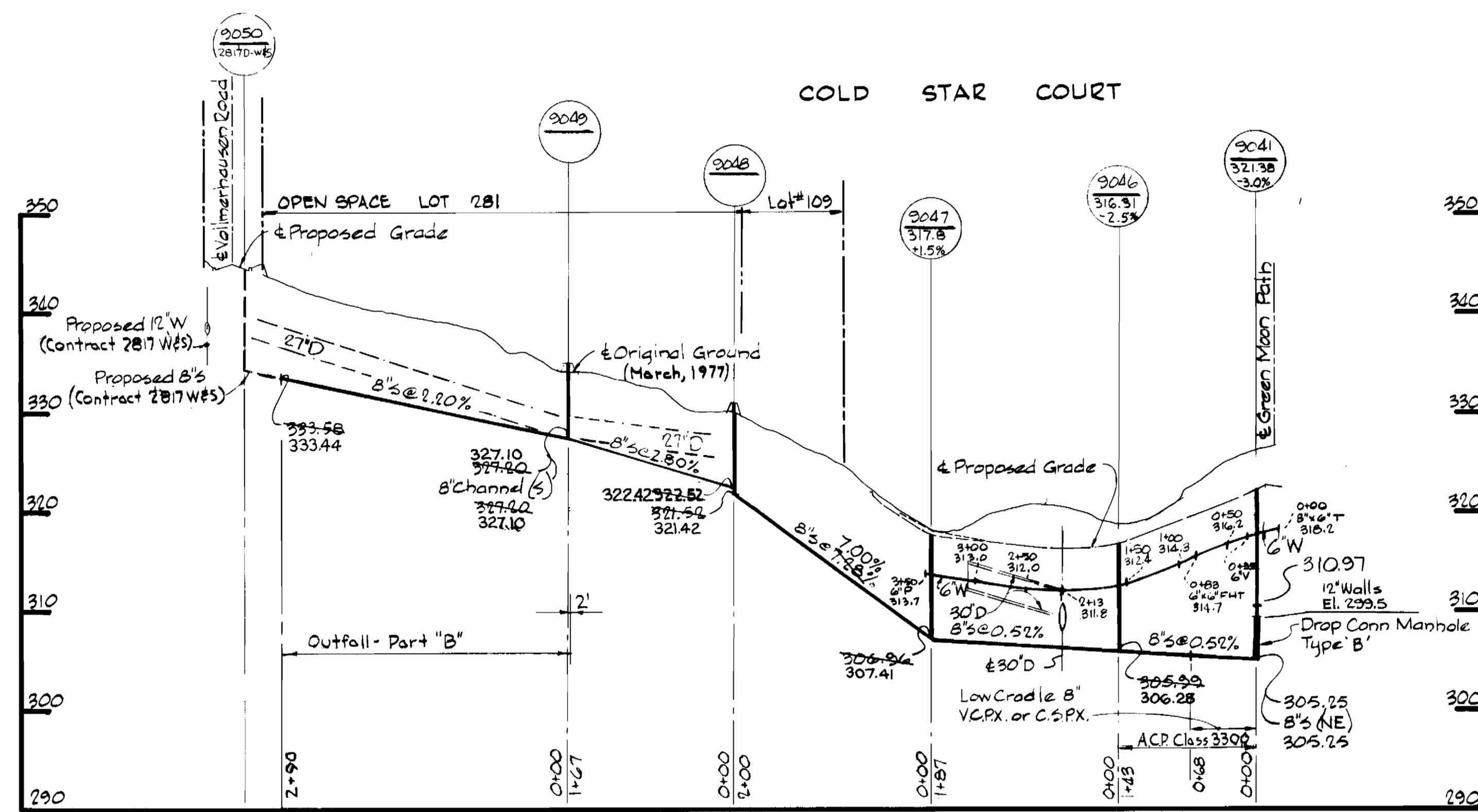
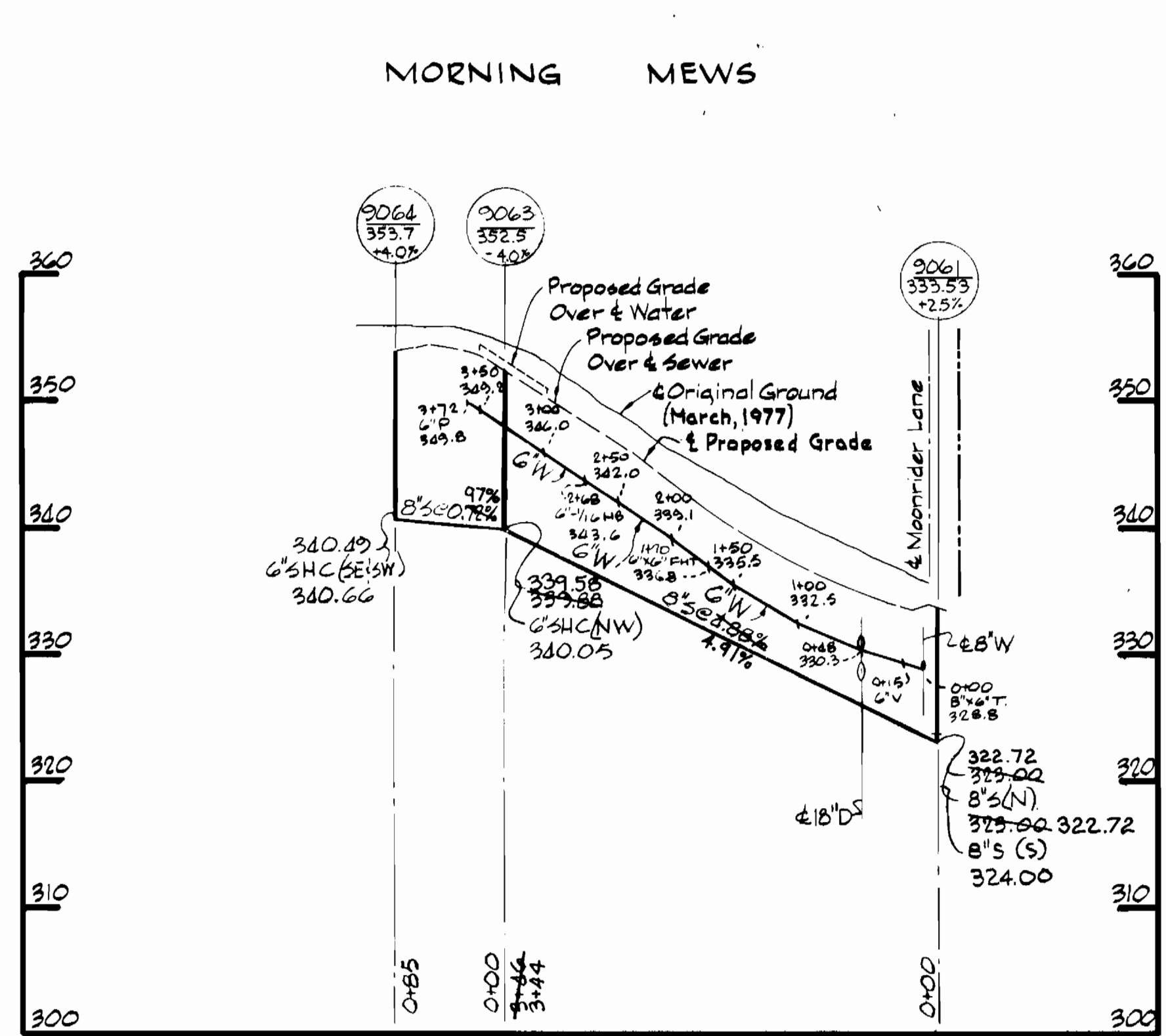
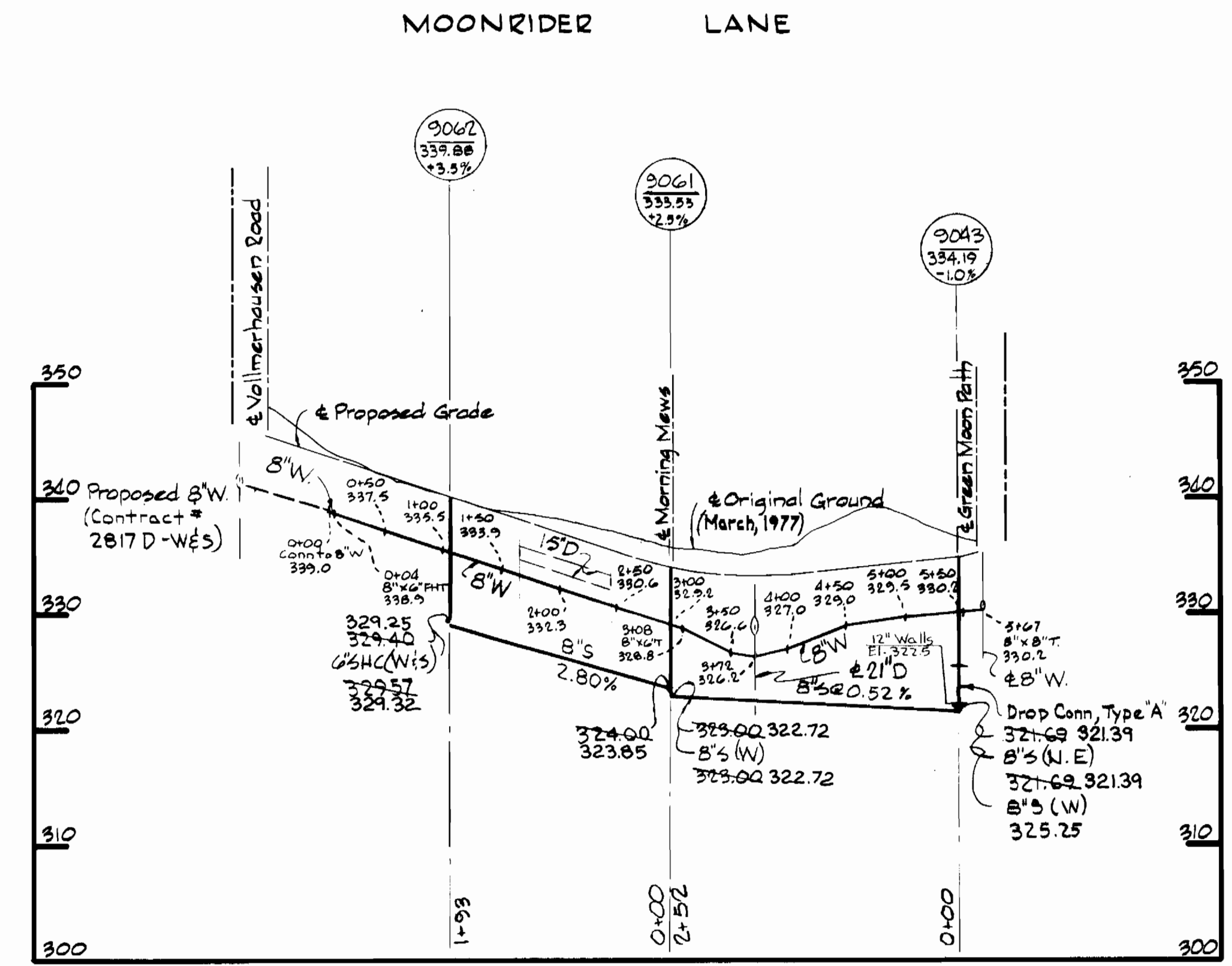
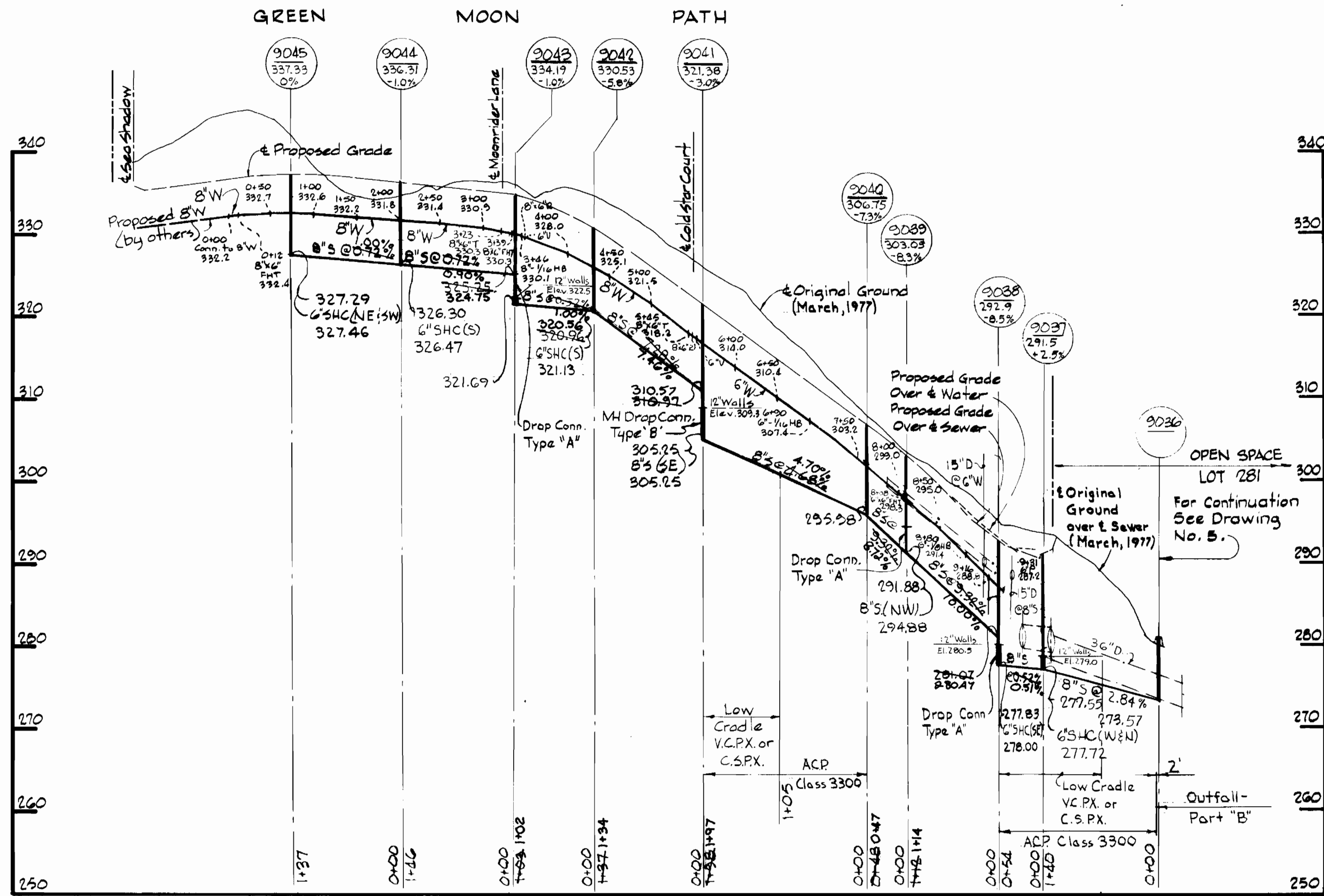
Ernest J. Milford

Village of Kings Contrivance
Section 3, Area 1, Phase II
Contract No. 2818D-W&S

WHITMAN, REQUARDT & ASSOCIATES ENGINEERS 1304 ST. PAUL ST. BALTIMORE, MARYLAND	DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND <i>Richard E. Brudenbury</i> 10/24/78 DIRECTOR OF PUBLIC WORKS - DATE	CONTRACT NO. 2818D-W&S <i>W.O. Whit</i> 10-23-78 CHIEF-BUREAU OF ENGINEERING - DATE	PLAN OF WATER & SEWER MAINS	COLUMBIA VILLAGE OF KINGS CONTRIVANCE ELECTION DISTRICT GUILFORD NO. 6	DRAWING NO. 2 OF 5	SCALE 1" = 50'
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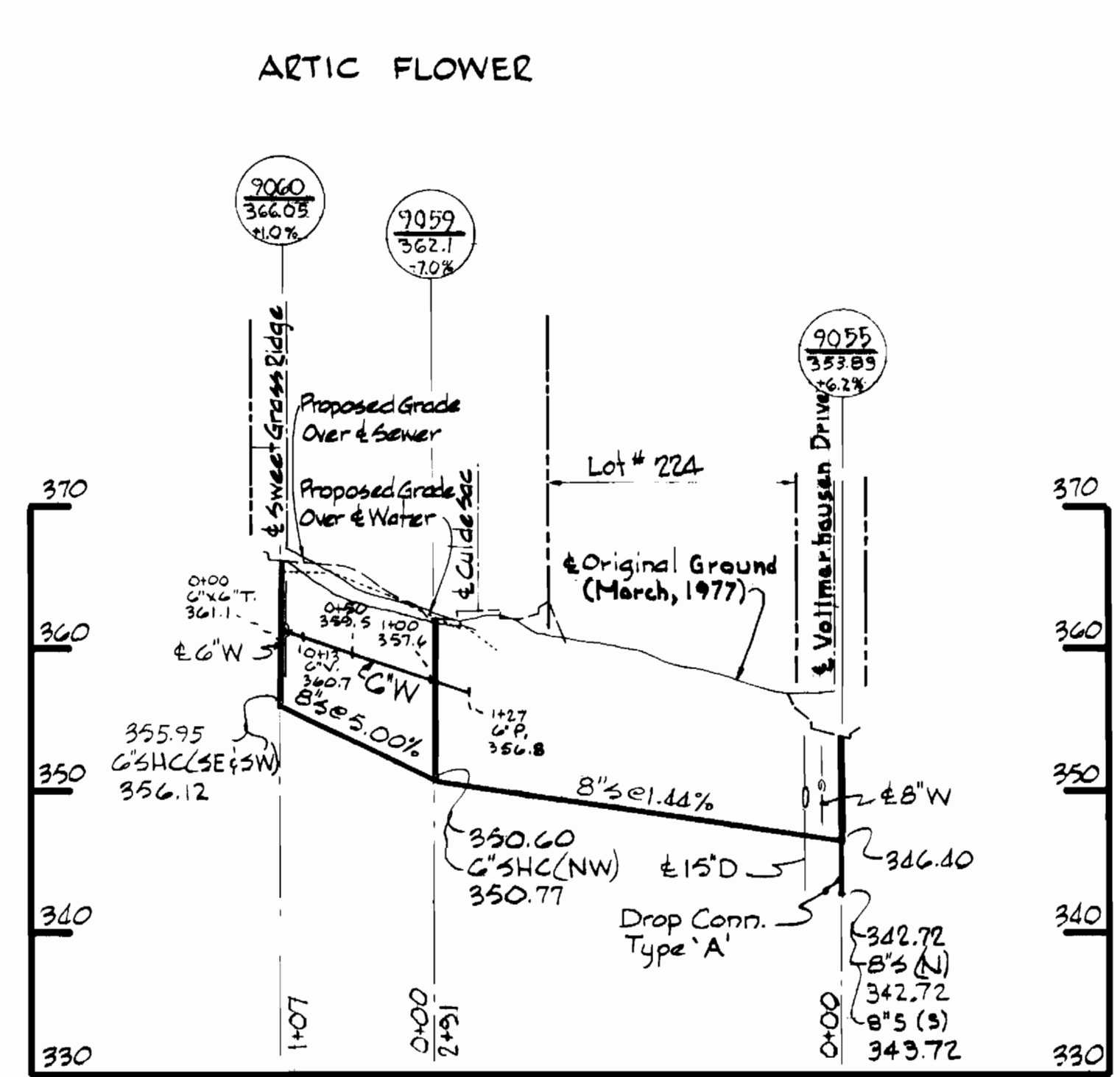
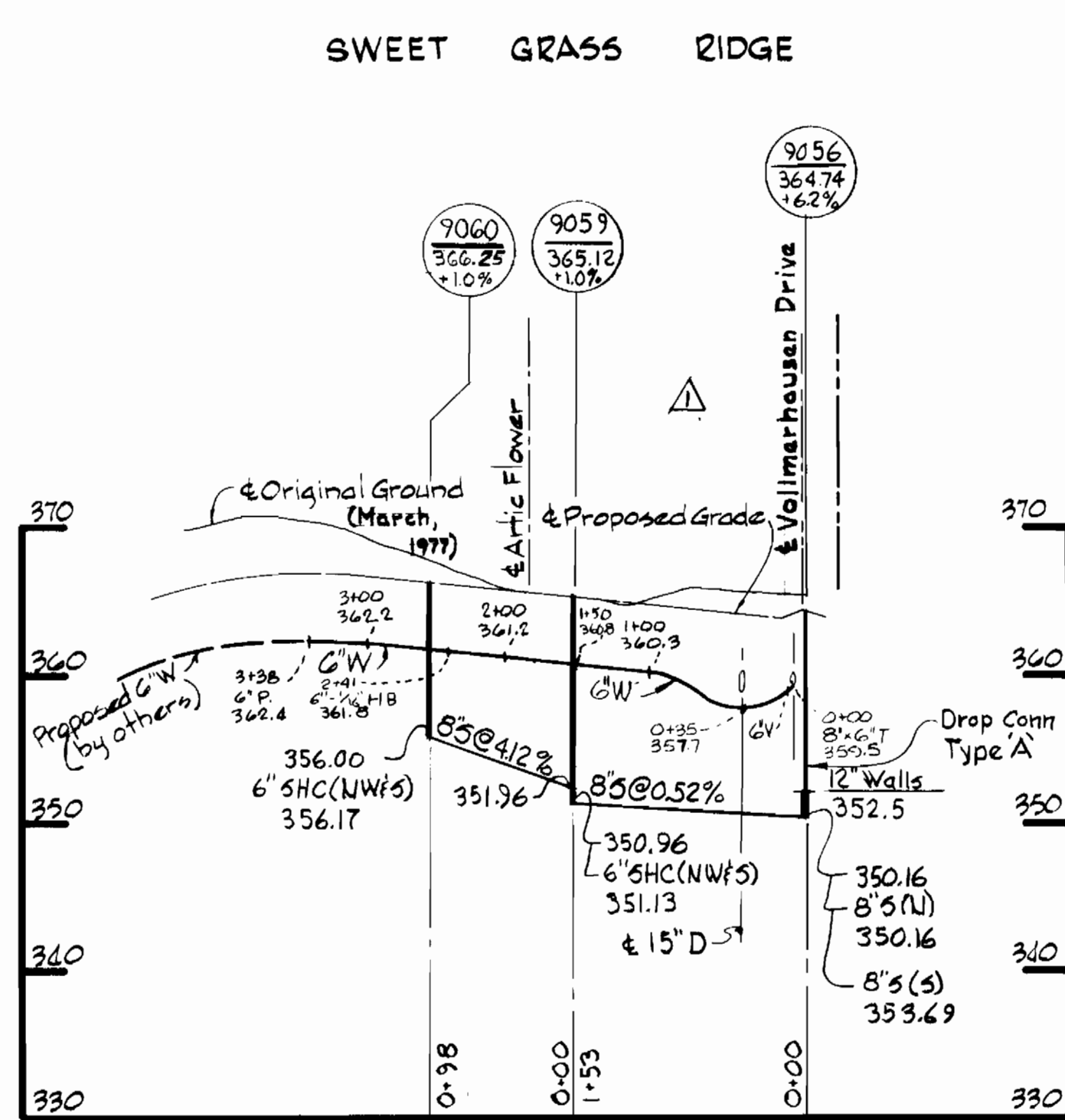
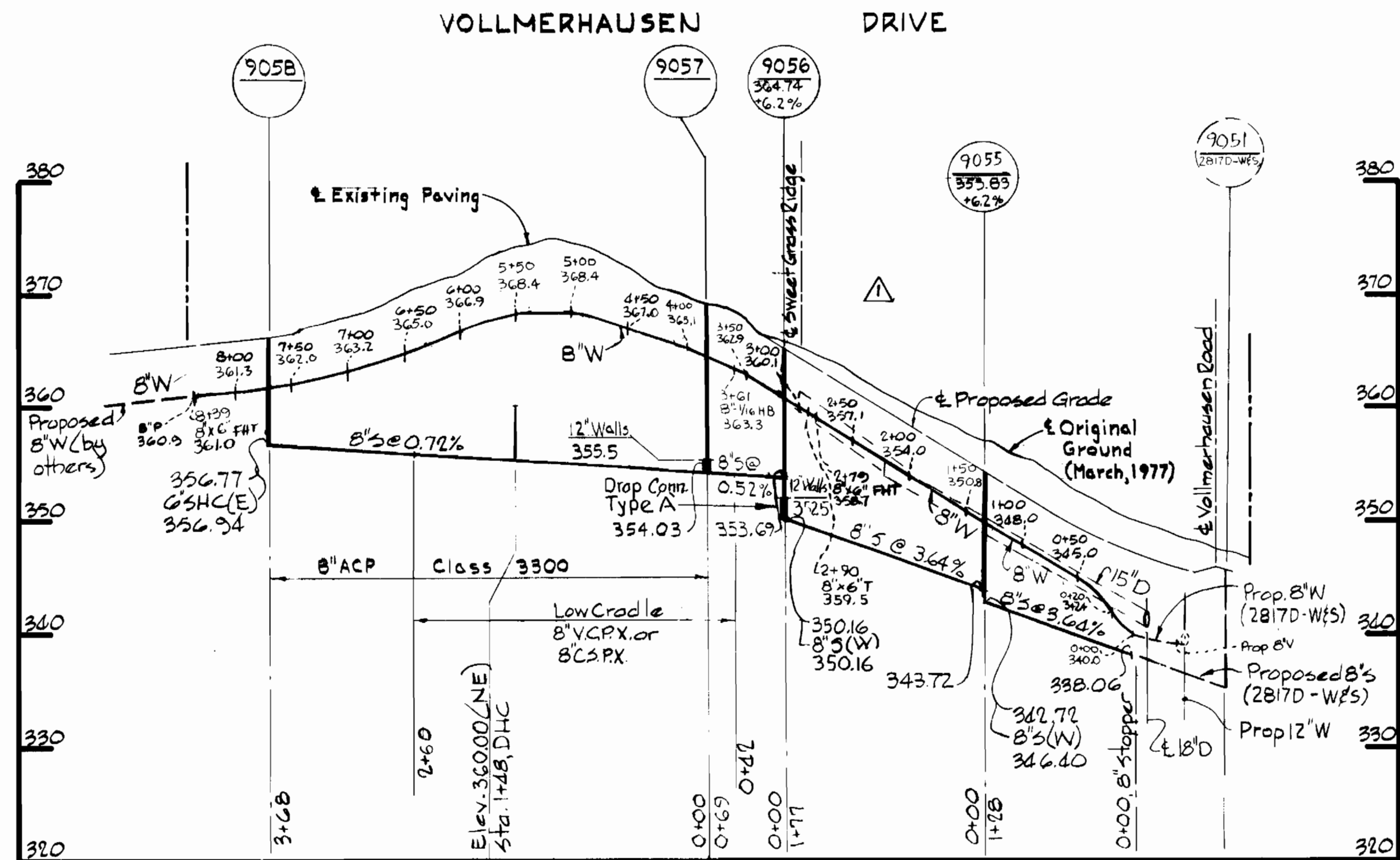
<p>WHITMAN, REQUARDT & ASSOCIATES ENGINEERS 1304 ST. PAUL ST. BALTIMORE, MARYLAND</p>	<p>DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND <i>Richard E. Spindler</i> 10/24/78 DIRECTOR OF PUBLIC WORKS - DATE</p>	<p>CONTRACT NO. 2818D-W&S</p>	<p>PLAN OF WATER & SEWER MAINS</p>	<p>COLUMBIA VILLAGE OF KINGS CONTRIVANCE ELECTION DISTRICT GUILFORD NO. 6</p>	<p>DRAWING NO. 3 OF 5</p> <p>SCALE 1" = 50'</p>
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Herbert M. ...

Village of Kings Contrivance
Section 3, Area I, Phase II
Contract No. 2818D-WES

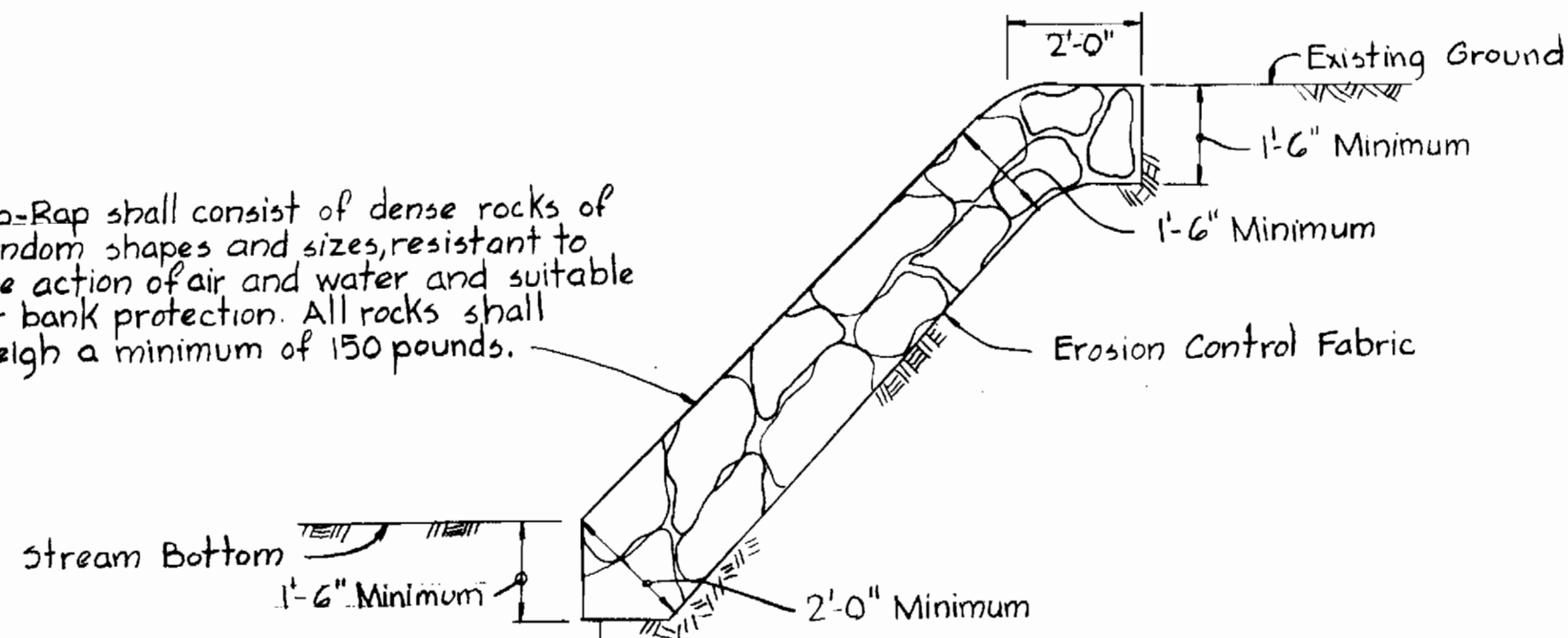
WHITMAN, REQUARDT & ASSOCIATES ENGINEERS 1304 ST. PAUL ST. BALTIMORE, MARYLAND	DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND <i>Richard E. ...</i> DIRECTOR OF PUBLIC WORKS - DATE	CONTRACT NO. 2818D-WES <i>W.O. ...</i> CHIEF BUREAU OF ENGINEERING - DATE	PROFILES OF WATER & SEWER MAINS	COLUMBIA VILLAGE OF KINGS CONTRIVANCE ELECTION DISTRICT GUILFORD NO. 6	DRAWING NO. 4	SCALE H:1"=100'
					OF 5	V:1"=10'



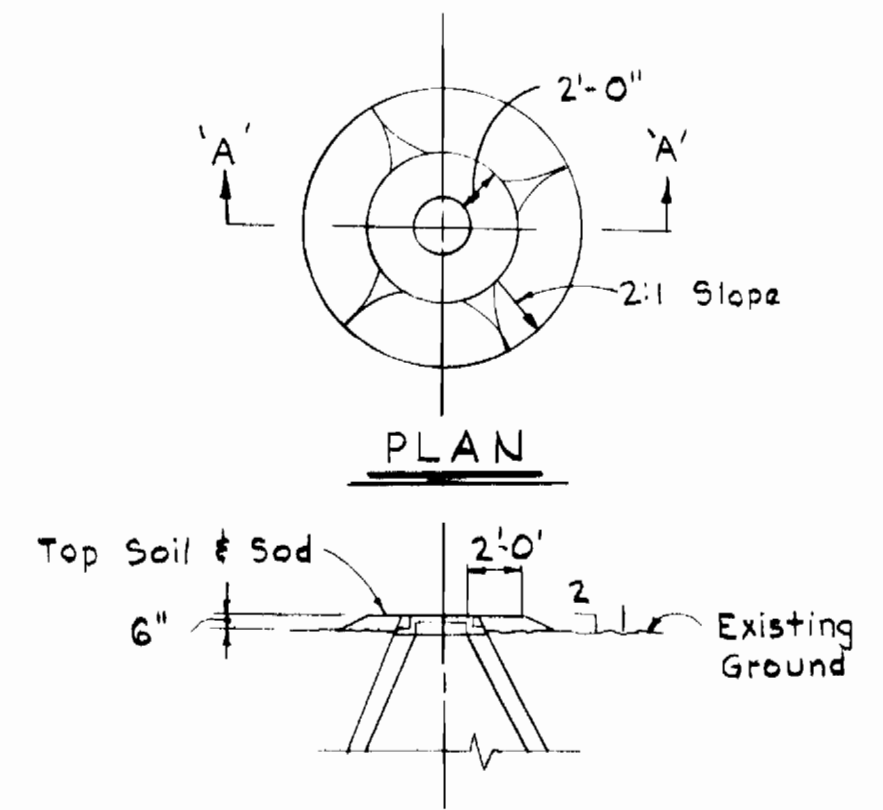
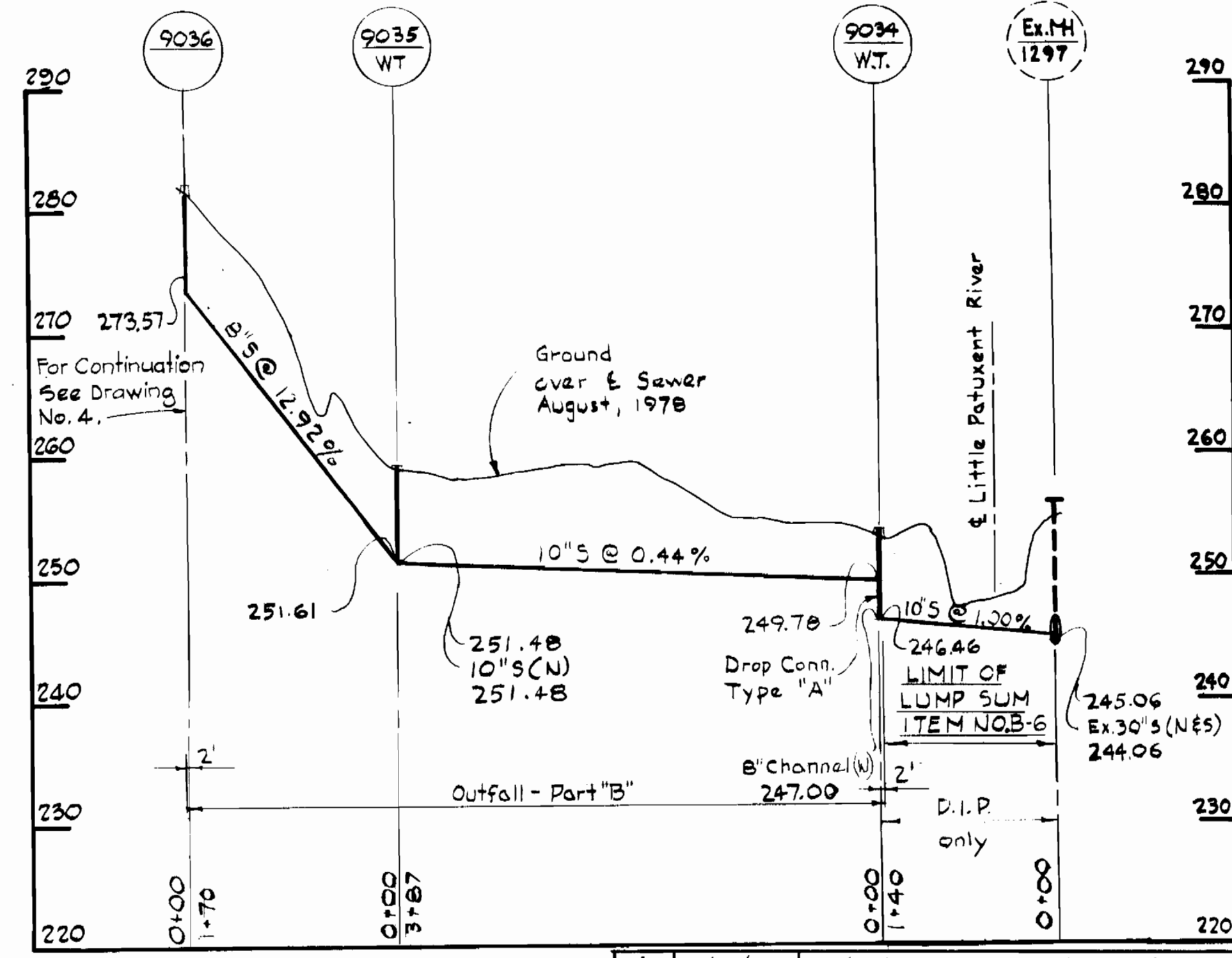
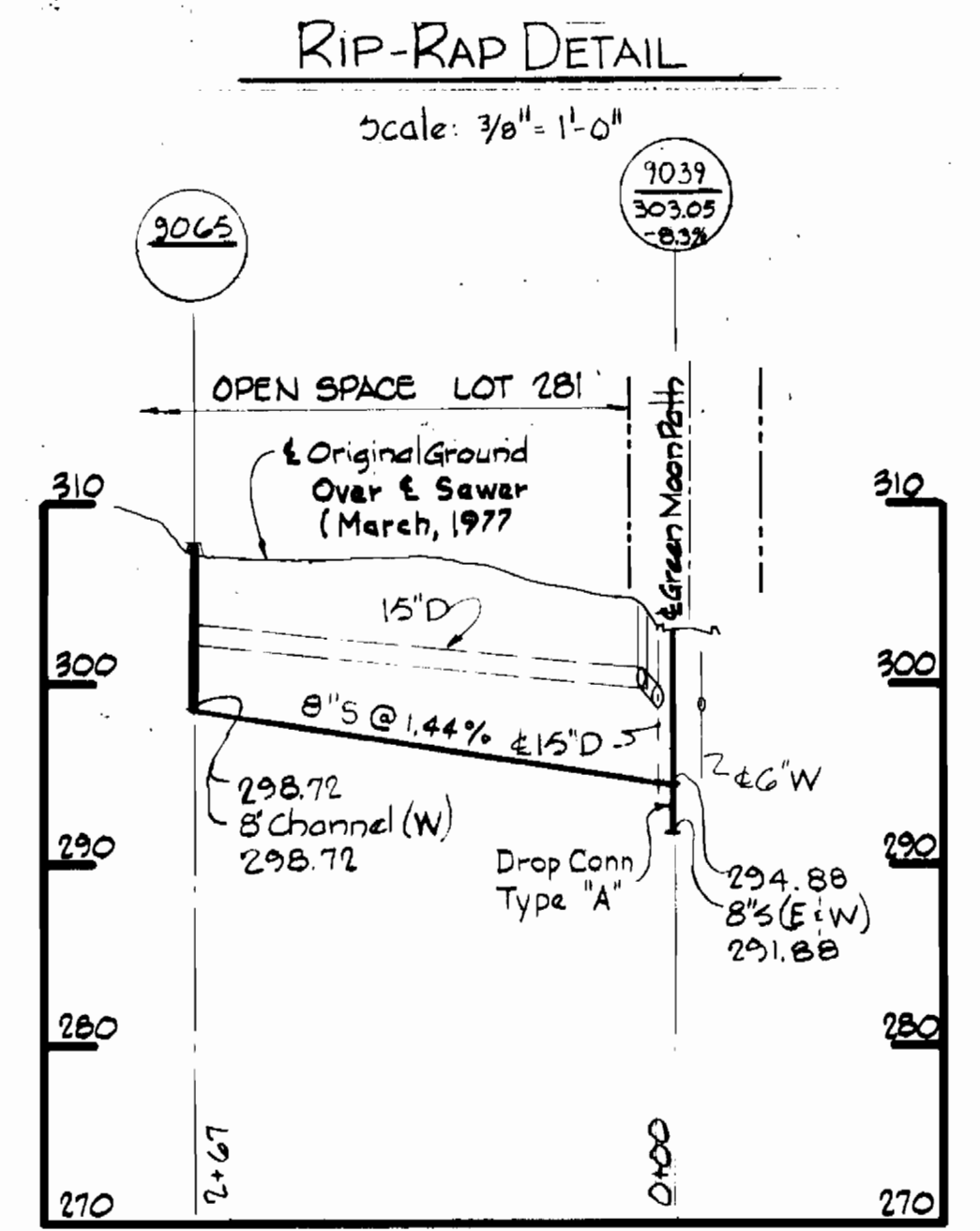
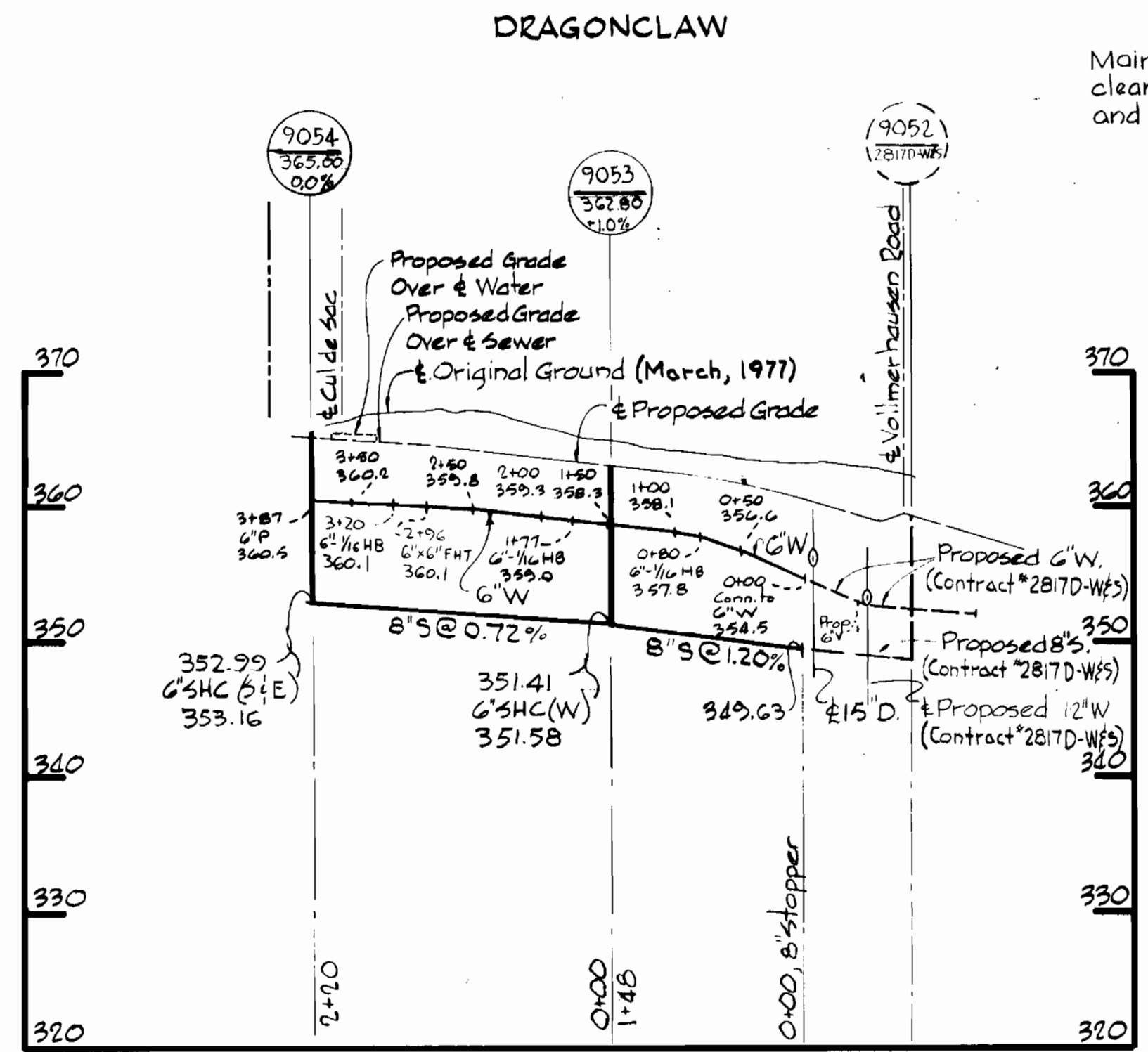
Rip-Rap Notes:

1. Erosion Control Fabric shall be Polyfilter/X as manufactured by Carthage Mills, Inc., Erosion Control Division, 124 West 66th Street, Cincinnati, Ohio; Laurel Erosion Control Cloth as manufactured by Laurel Plastic, Inc. Madison, Maine, or approved equal.
2. Rip-Rap shall be placed 6' Minimum each side of sewer or as shown.

Rip-Rap shall consist of dense rocks of random shapes and sizes, resistant to the action of air and water and suitable for bank protection. All rocks shall weigh a minimum of 150 pounds.



Maintain 1'-0" Minimum clearance between Rip-Rap and top of pipe.



SECTION "A-A"
FILL AROUND MANHOLES
9034, 9035, 9036, 9048, 9049
& 9065
Scale 1/8"=1'-0"



Kenneth W. Wood

Village of Kings Contrivance
Section 3 Area 1, Phase II
Contract No. 2818D-W&S

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

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
Richard E. Sreudenburger 10/24/78
DIRECTOR OF PUBLIC WORKS - DATE

CONTRACT NO. 2818D-W&S
WOL 10-23-78
CHIEF BUREAU OF ENGINEERING - DATE

PROFILES AND DETAILS OF
WATER & SEWER MAINS

COLUMBIA
VILLAGE OF KINGS CONTRIVANCE
ELECTION DISTRICT GUILFORD NO. 6

DRAWING NO. 5 OF 5
SCALE AS SHOWN

1/31/79	Revised Sweet Grass Ridge - Eliminated Artic Flower
No. Data	REVISION