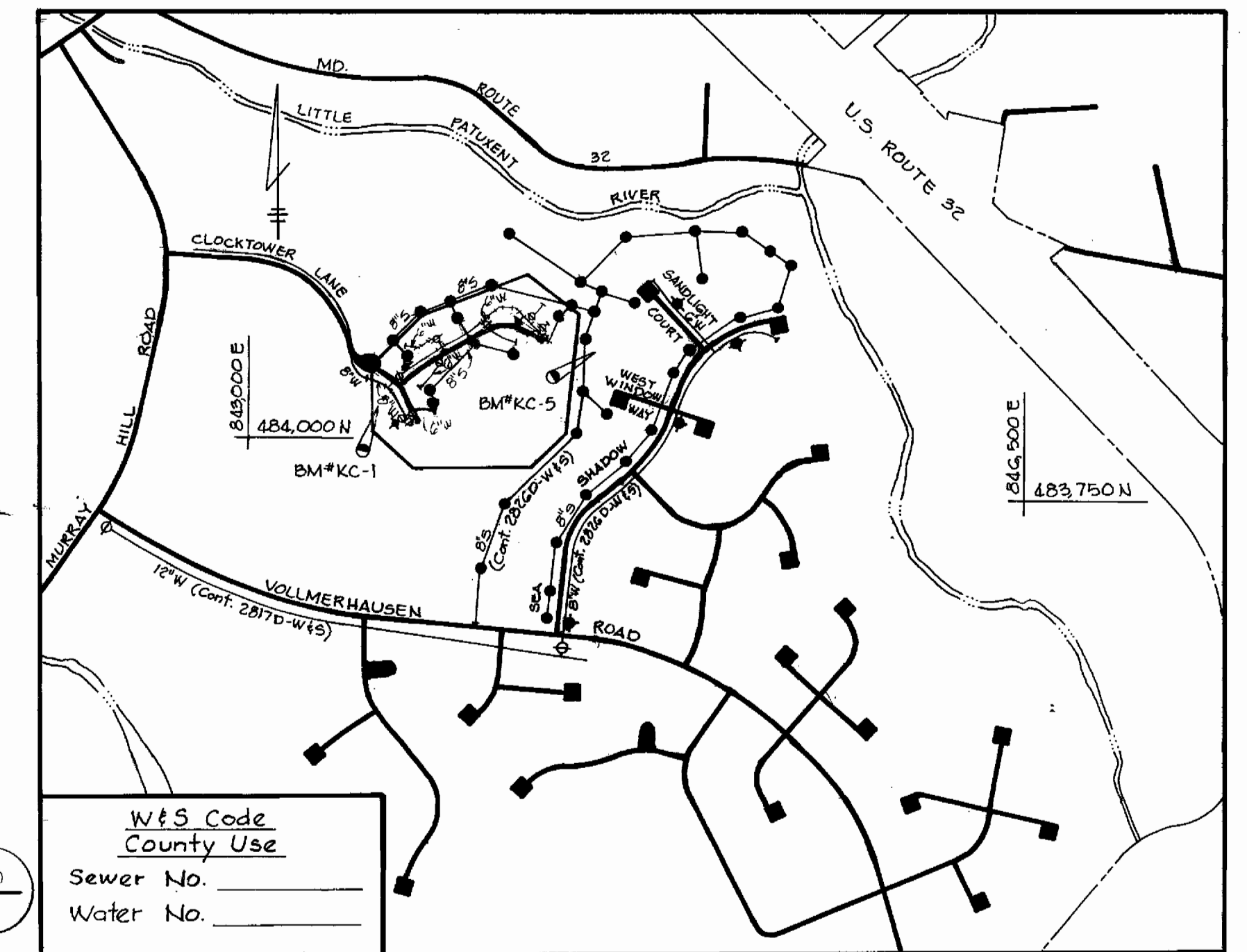


Build M's #1, 2, 3 and 10 1'-6" above existing grade. See Detail drawing No. 3.

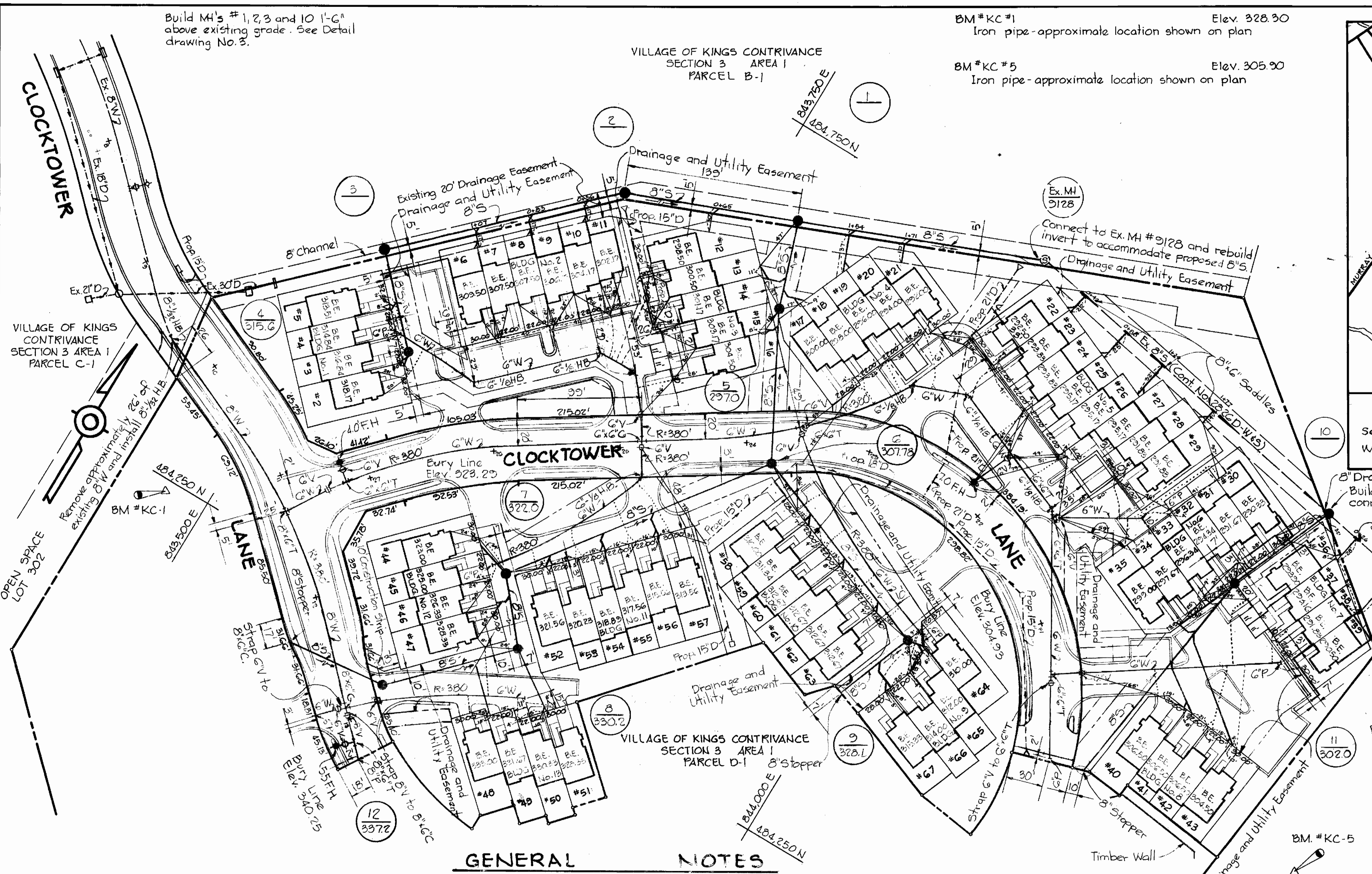
BM*KC#1 Elev. 328.30
Iron pipe-approximate location shown on plan

BM*KC#5 Elev. 305.90
Iron pipe-approximate location shown on plan

VILLAGE OF KINGS CONTRIVANCE
SECTION 3 AREA 1
PARCEL B-1



VICINITY MAP
Scale: 1"=600'



GENERAL NOTES

- 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 to the satisfaction of the Engineer, at the Contractor's expense.
- All horizontal controls are based on Maryland State Coordinates.
- All vertical controls are based on U.S.G.S. Datum.
- All pipe elevations shown are invert elevations.
- Clear all utilities by a minimum of 6". Clear all poles by 2'-0" minimum or tunnel as required. Any cost incurred to the contractor for tunneling or bracing at poles shall be included in unit prices bid for excavation and backfill.
- For details not shown on the drawings use Howard County Standard Details.
- For materials and construction methods use Howard County Standard Specifications.
- Contractor shall locate existing utilities a minimum of two (2) weeks in advance of construction operations in the vicinity of proposed utilities at his own expense.
- Contractor shall notify the following utilities or agencies at least five (5) working days before starting work shown on these plans:
 - a. State Highway Administration 531-5533
 - b. Baltimore Gas and Electric Company - Underground Electric Distribution Customer Service 685-0123
 - c. Baltimore Gas and Electric Company - Underground Gas Distribution Customer Service 685-0123
 - d. Engineering - "Damage Control" 234-5621
 - e. "Miss Utility" 1-559-0100
 - f. Chesapeake and Potomac (C & P) Telephone Company 725-9976

- American Telephone and Telegraph - Cable Location Division 393-3553
- Colonial Pipeline Company 781-1641
- Bureau of Utilities Howard County 992-2366
- 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.
- Contractor shall remove trees, stumps and roots along line of excavation as directed by the Engineer. Payment for such removal shall be included in the unit price bid for excavation and backfill.
- Place regulation "Men Working" and warning signs as required to comply with Maryland State Highway Administration Manual of Traffic Control for Highway Construction and Maintenance Operations.
- All water mains to be C.I.P. or D.I.P. unless otherwise noted.
- Top of all water mains to have a minimum of 3 1/2' cover unless otherwise noted.
- Valves adjacent to trees shall be strapped to trees.
- Block all fittings with concrete.
- Bury line elevations on fire hydrants shall be set to the elevations shown on the drawings. All fire hydrants shall be strapped and buttressed with concrete in accordance with standard details. Soil around the fire hydrant to be compacted in accordance with Section 5-15 of the Standard Specifications.
- All water house connections shall be for an inside meter setting.
- The contractor shall not operate any water main valves on the existing system.
- All sewer mains shall be C.S.P.X., V.C.P.X., or A.C.P. Class 2400 unless otherwise noted.
- The contractor shall provide a joint in all sewer mains within 2'-0" of exterior manhole wall.
- All manholes shall be 4'-0" inside diameter, unless otherwise noted.
- Force mains shall be D.I.P. only.
- Manholes shown with 12" and 16" walls are brick manholes only.

- Manholes designated W.T. in plan and profile shall have watertight frame and covers, Standard Detail 5-12 (RCR-63A). Where watertight manhole frame and cover is used, set top of frame 1'-6" above finished grade.
- House(s) with the symbol "C.N.S." indicates that cellar can not be served.

SEDIMENT CONTROL MEASURES FOR THIS CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 14 OF THE SPECIFICATIONS AND SITE DEVELOPMENT PLAN #SDP 01-25C

HOWARD SOIL CONSERVATION DISTRICT
REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS

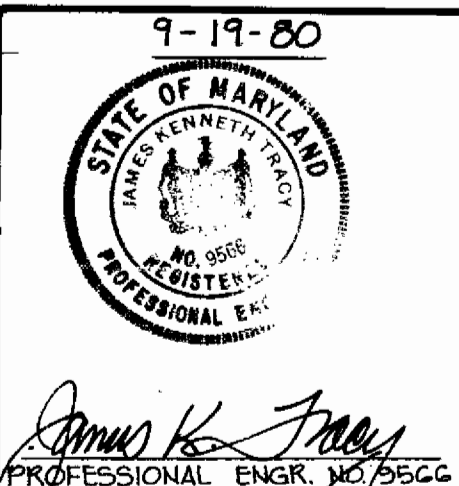
James M. Valm 12-17-80 DATE
US SOIL CONSERVATION SERVICE

William J. Rowe 12-17-80 DATE
HOWARD SOIL CONSERVATION DISTRICT

VKC Section 3, Area 1
Parcel D-1
Contract No. 24-0935-D

REV.	DATE	DESCRIPTION
1	7-28-81	Revised Water Main Alignment Parallel to Bldg 2

Item	QUANTITIES		Material/Supplier
	Estimated	As Built	
Fire Hydrants	3	3	M & H
8" Sewer	1820 L.F.	1821	VCP / Logan
Manholes	12	12	Atlantic
8" Water	363 L.F.	363	Griffin / DIP
6" Water	1920 L.F.	1913	Griffin / DIP
8" Valves	1	1	
6" Valves (excl. FH V's)	9	9	



RIEMER-TRACY & ASSOCIATES, INC.
8659 BALTIMORE NATIONAL PIKE
ELLCOTT CITY, MARYLAND 21043
LAND PLANNING, DESIGN & CIVIL ENGINEERING

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
CHIEF, LAND DEVELOPMENT DIVISION DATE 12-18-80
DIRECTOR OF PUBLIC WORKS DATE 12-18-80
CHIEF, BUREAU OF ENGINEERING DATE 12-18-80
CHIEF, BUREAU OF UTILITIES DATE 12-18-80

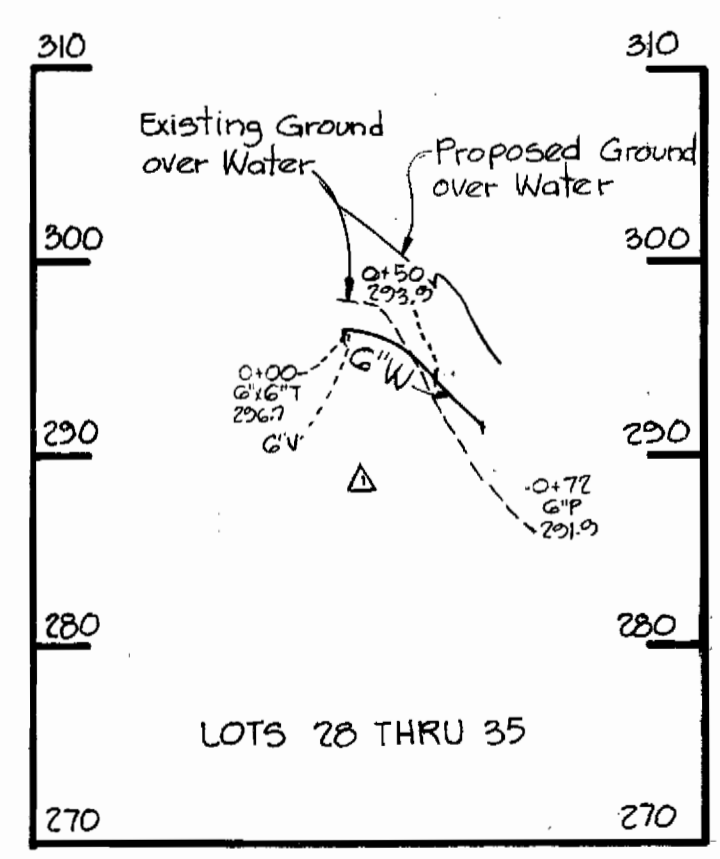
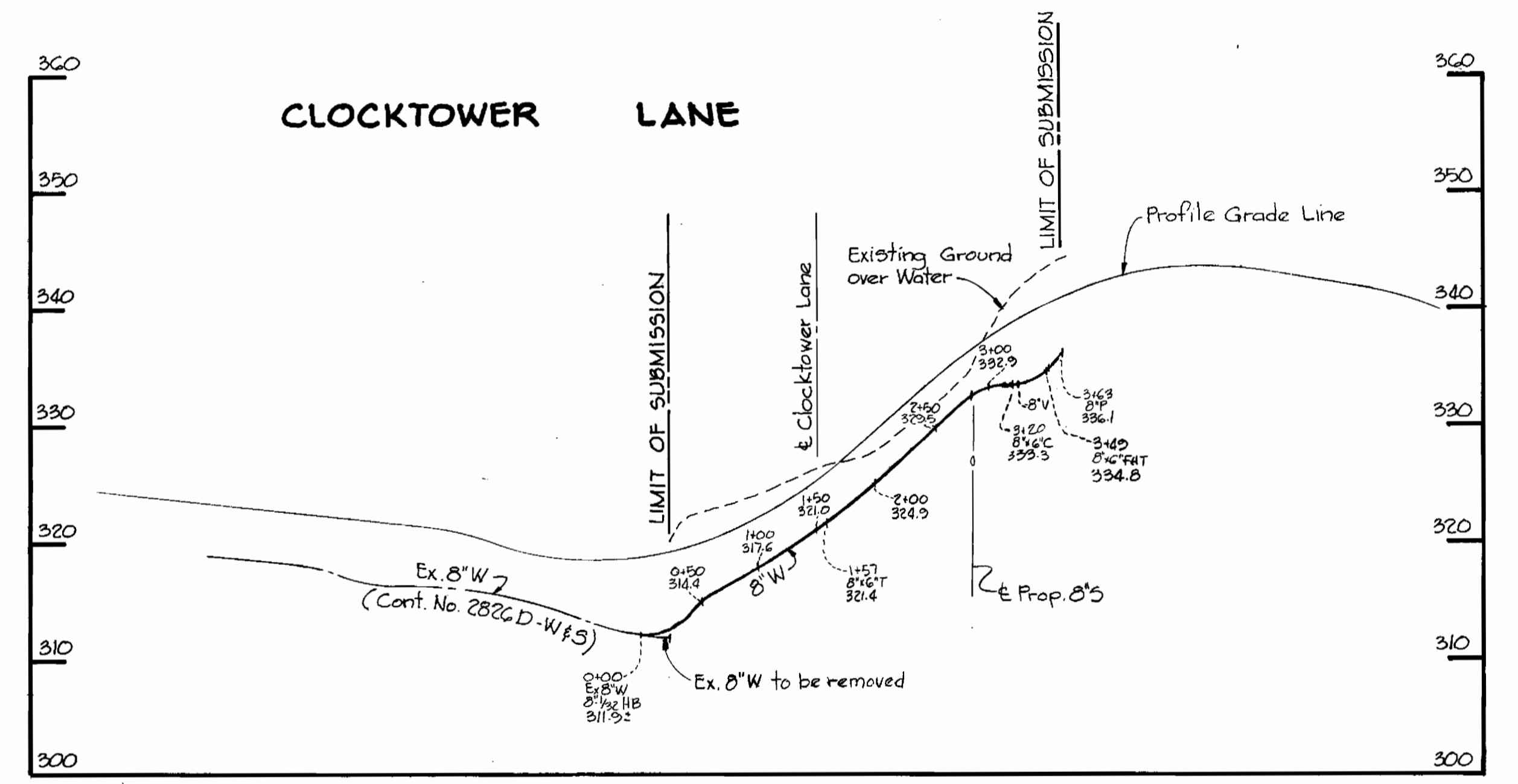
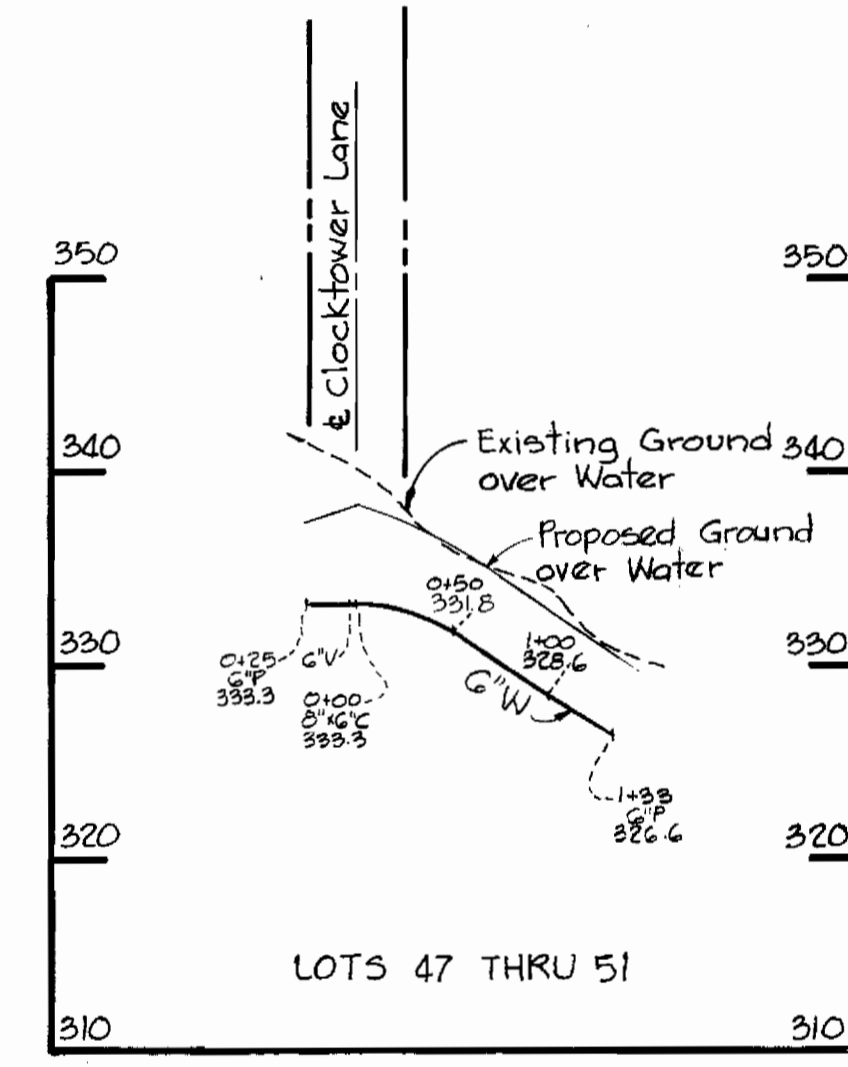
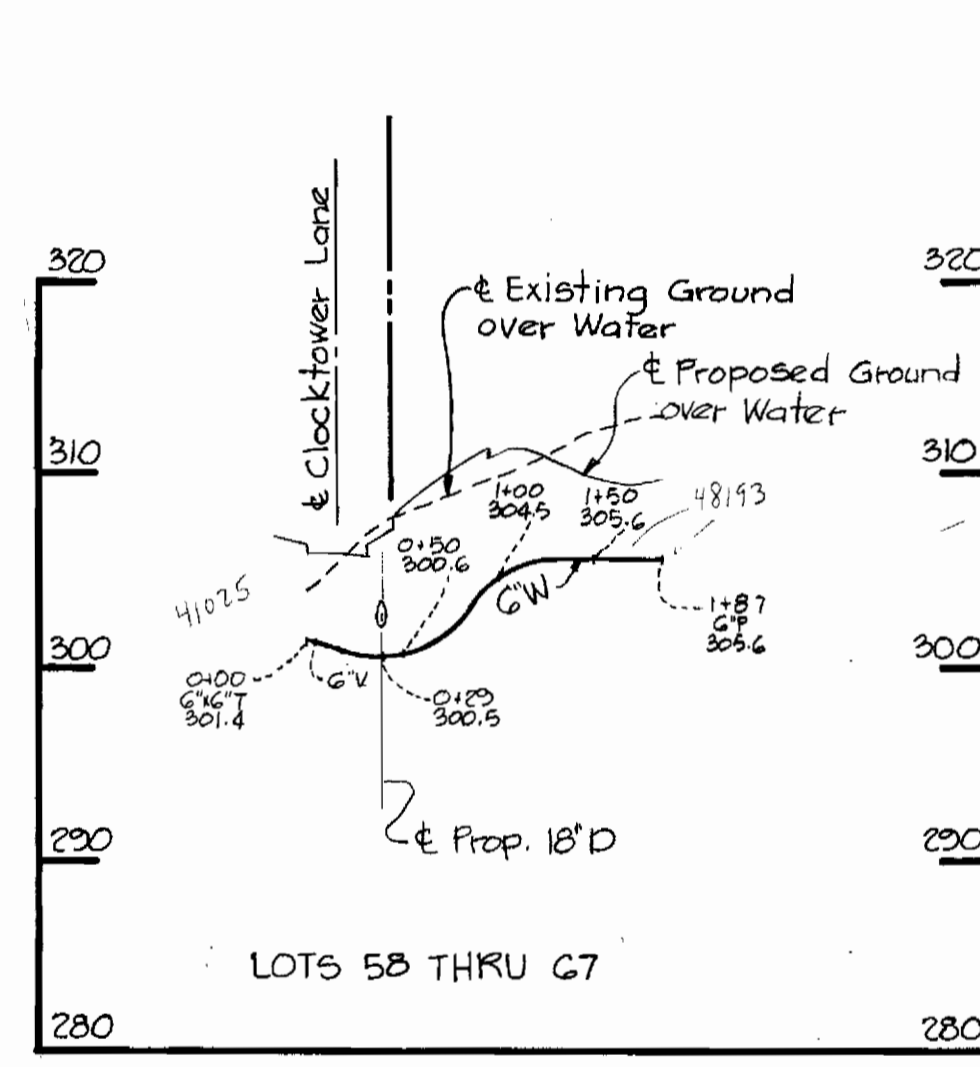
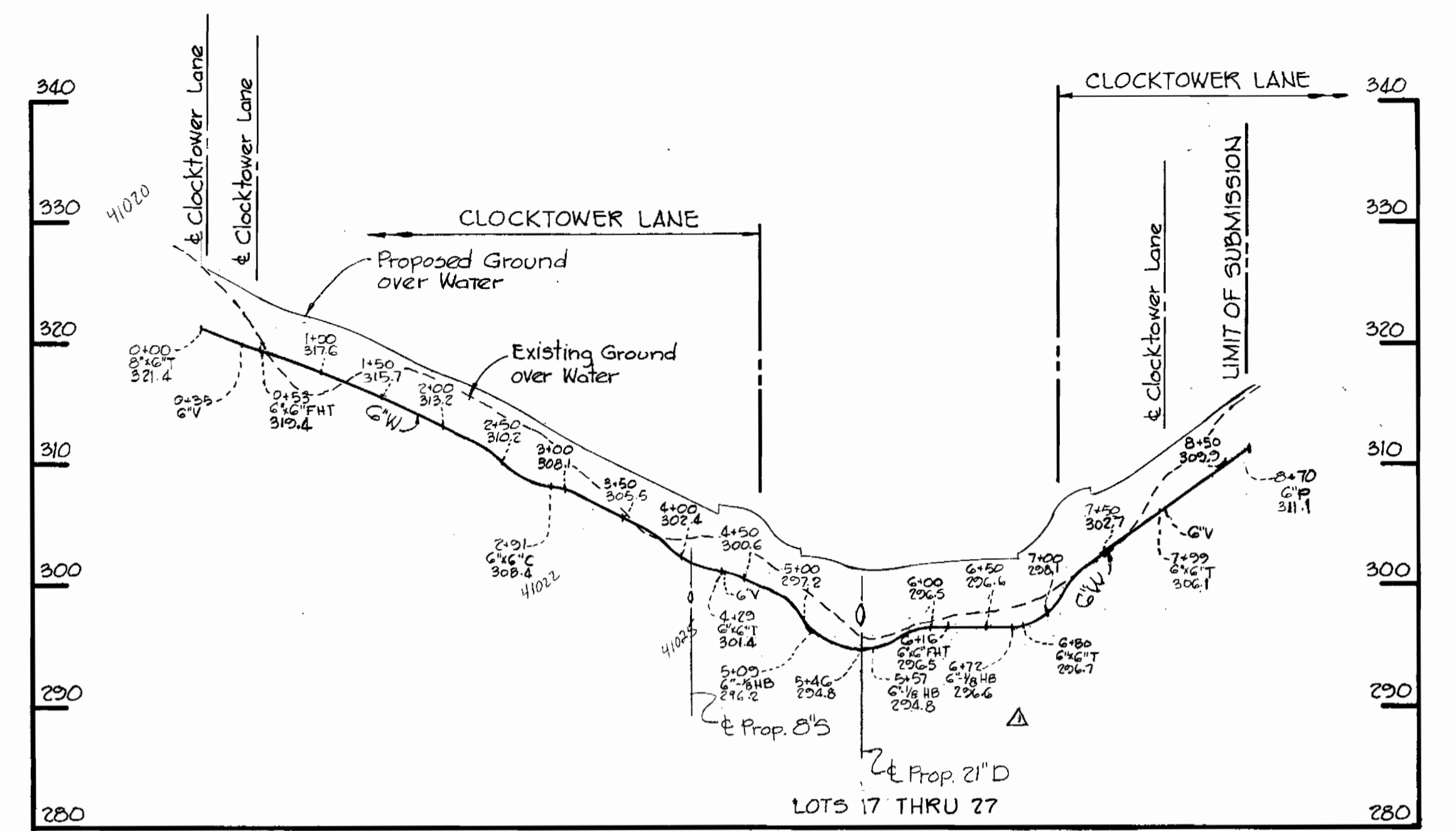
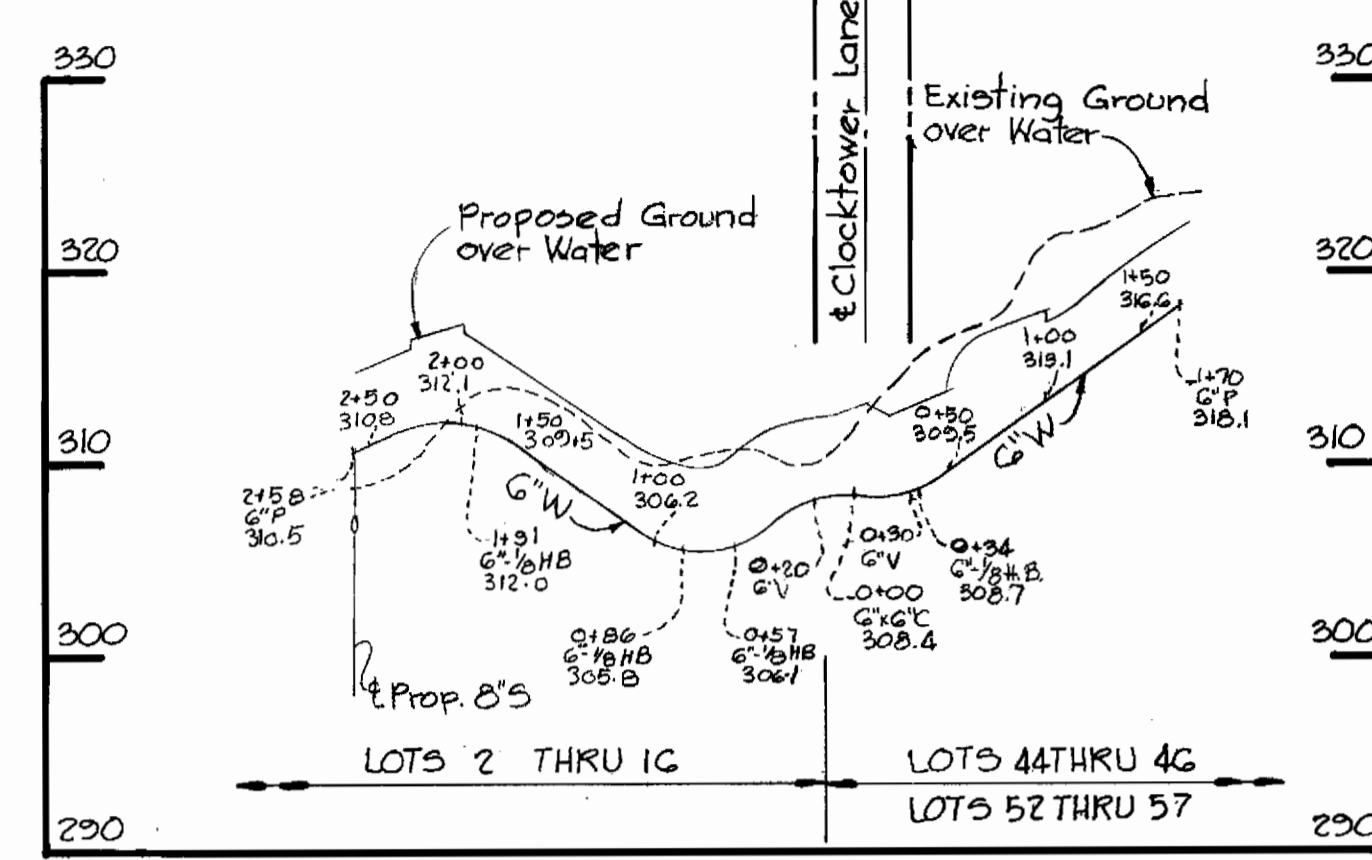
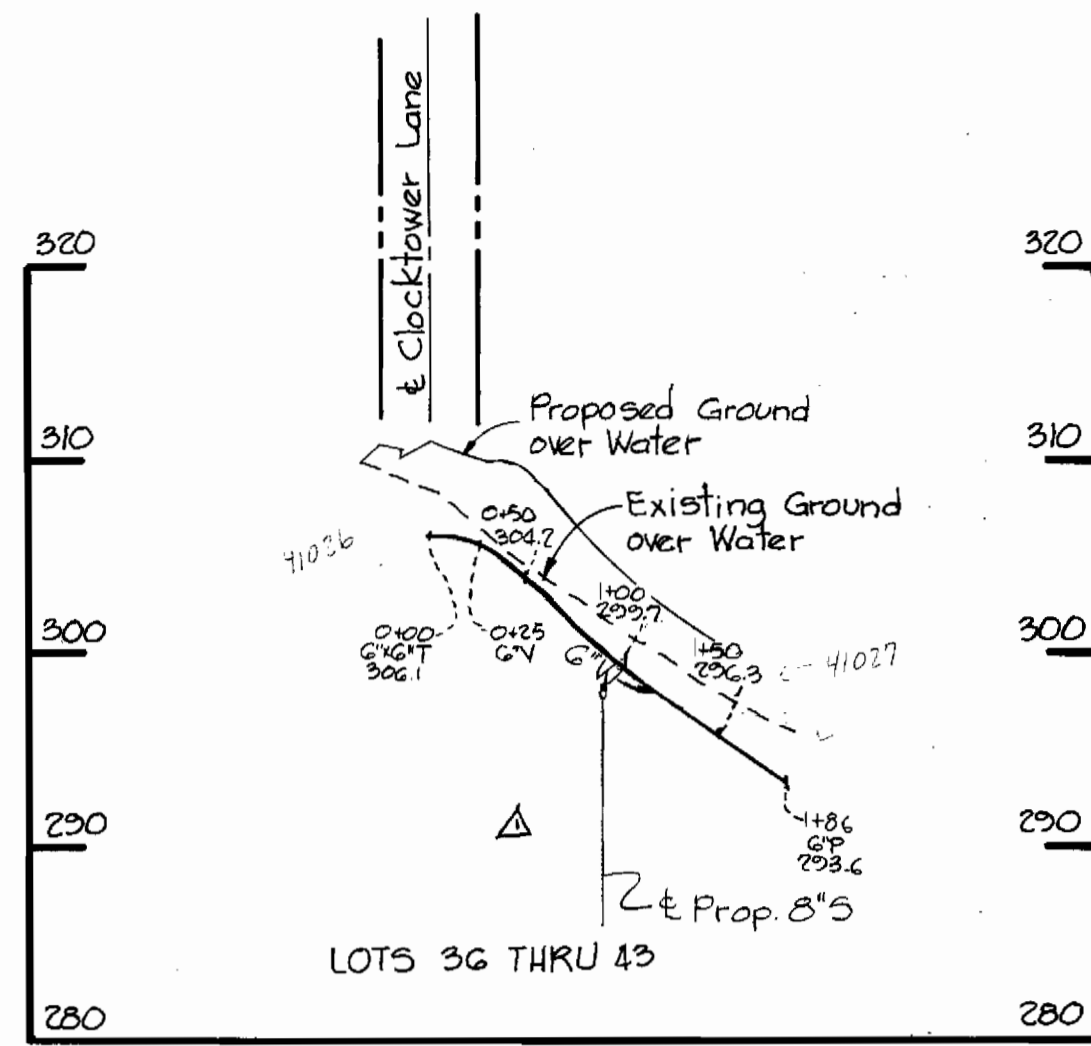
CONTRACT
NO. 24-0935-D

PLAN OF
WATER & SEWER MAINS

COLUMBIA
VILLAGE OF KINGS CONTRIVANCE
ELECTION DISTRICT GUILFORD NO. 6

DRAWING
NO. 1
OF 3

SCALE
1" = 50'



HOWARD SOIL CONSERVATION DISTRICT
 REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT
 AND MEETS TECHNICAL REQUIREMENTS

US SOIL CONSERVATION SERVICE DATE
 THIS PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT
 CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT

HOWARD SOIL CONSERVATION DISTRICT DATE

RIEMER-TRACY & ASSOCIATES, INC.
 8659 BALTIMORE NATIONAL PIKE
 ELLICOTT CITY, MARYLAND 21043
 LAND PLANNING, DESIGN & CIVIL ENGINEERING

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND
 CHIEF, LAND DEVELOPMENT DIVISION DATE 12-18-80
 DIRECTOR OF PUBLIC WORKS DATE 12-18-80
 CHIEF, BUREAU OF ENGINEERING DATE 12-18-80
 CHIEF, BUREAU OF UTILITIES DATE 12/18/80

CONTRACT
 NO. 24-0935-D

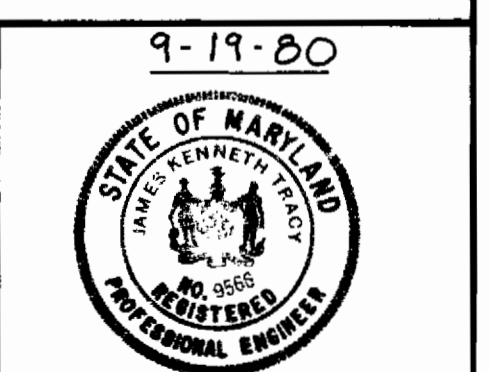
PROFILES OF WATER MAINS

REV.	DATE	DESCRIPTION
7-28-81		Revised Water Main Alignment Paralleling Bldg #2
8-2-81		Lowered 6" Water Mains

COLUMBIA
 VILLAGE OF KINGS CONTRIVANCE
 ELECTION DISTRICT GUILFORD NO. 6

DRAWING NO. 2 OF 3
 SCALE H: #100' V: 1"=10'

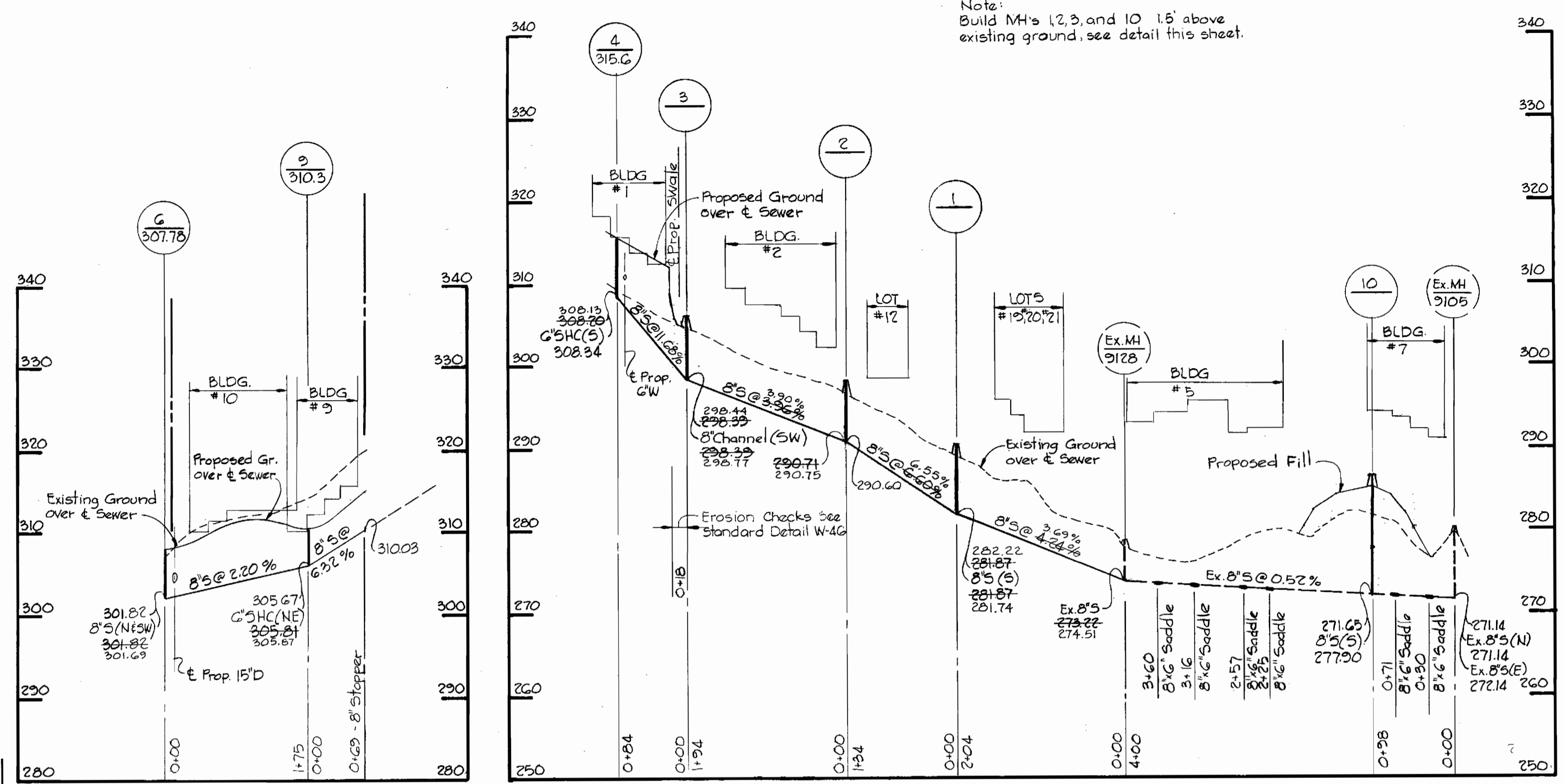
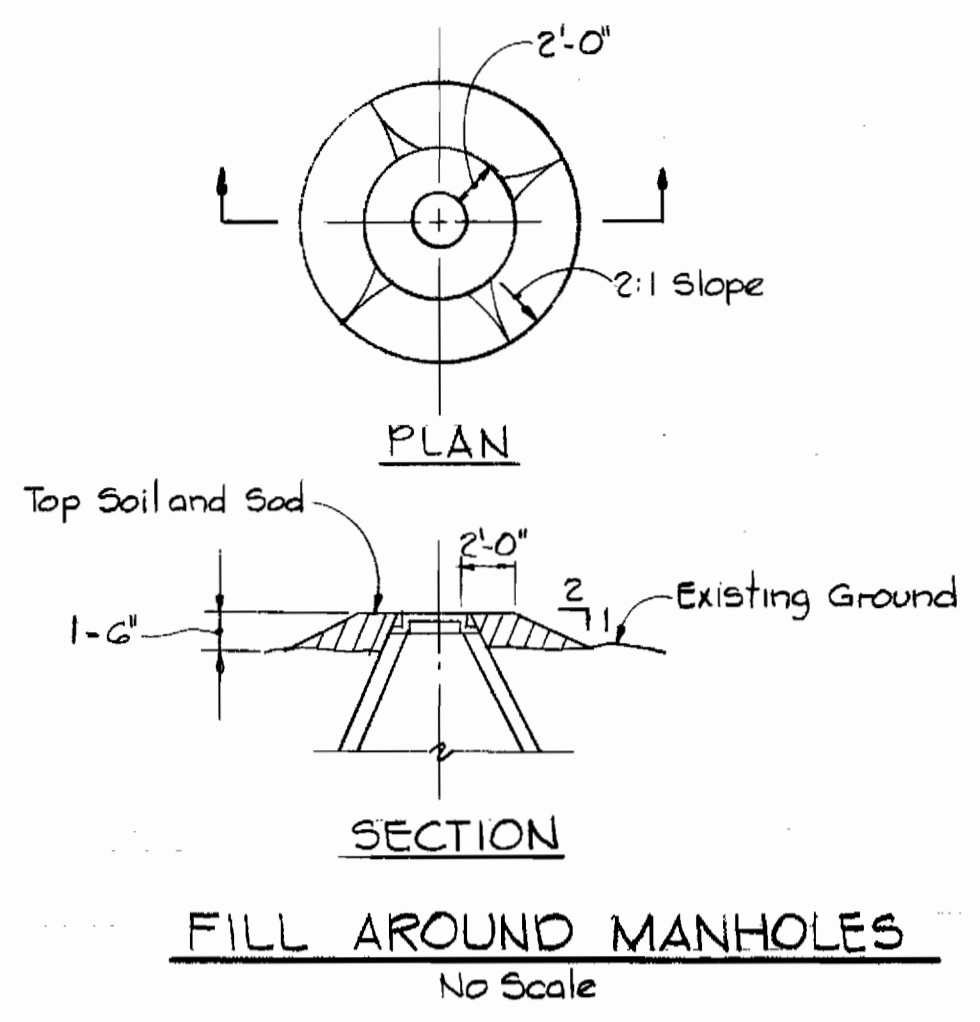
V.K.C. Section 3, Area 1
 Parcel D-1
 Contract No. 24-0935-D



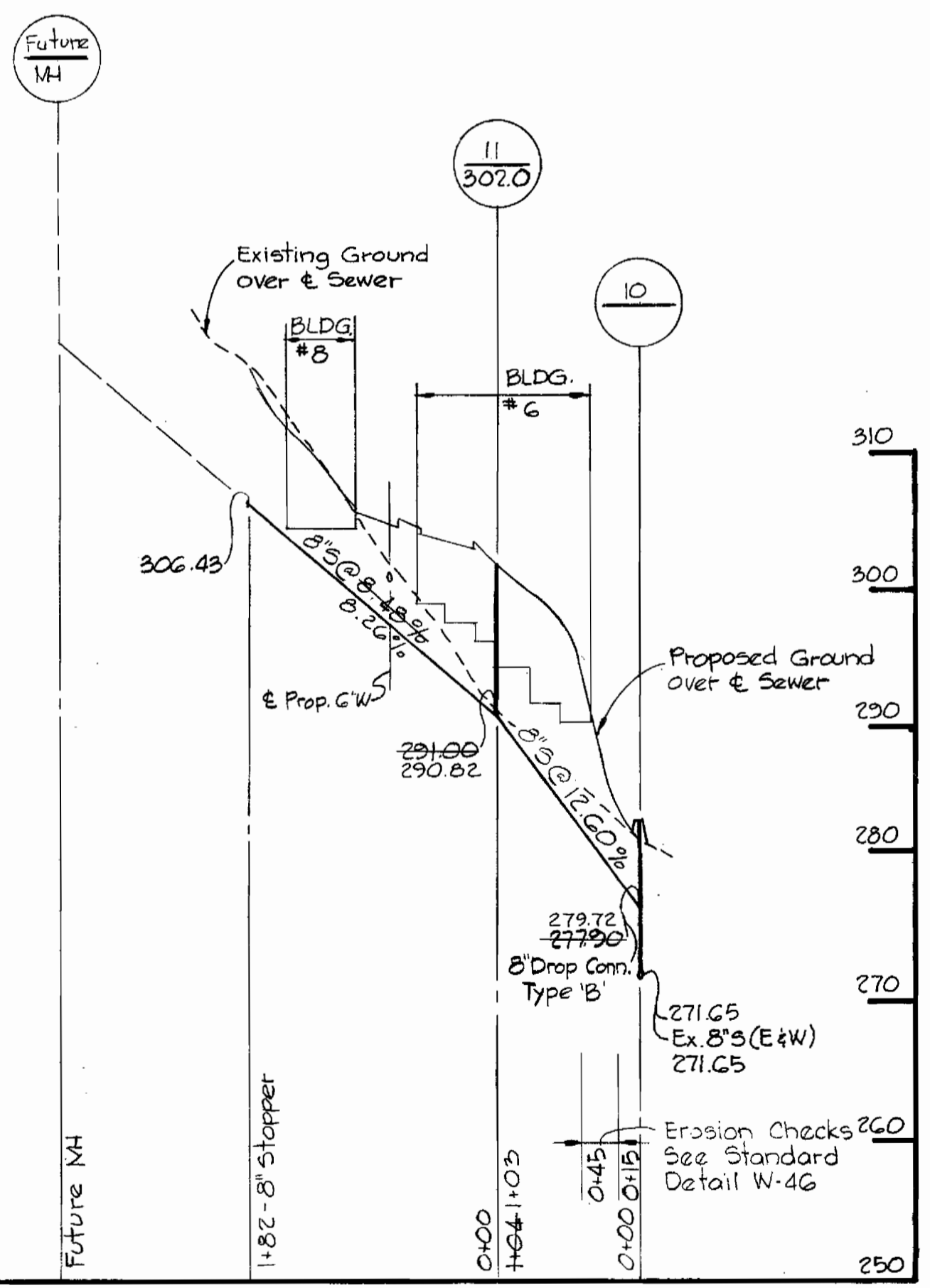
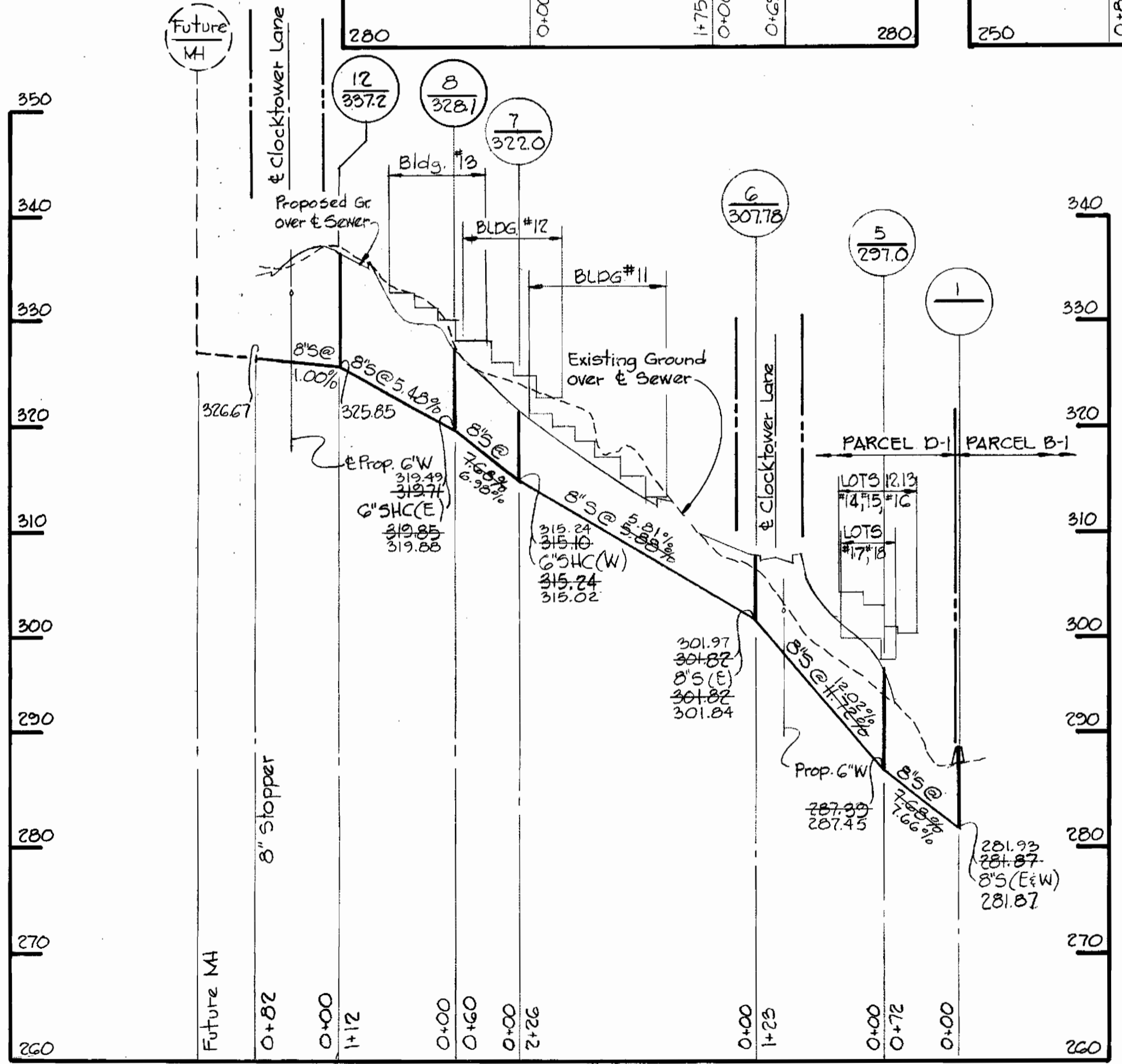
James K. Farnsworth
 PROFESSIONAL ENGR. NO. 5666

As Built 8/81

DECEMBER 4, 1980



Note:
Build MH's 1, 2, 3, and 10 1.5' above
existing ground, see detail this sheet.



HOWARD SOIL CONSERVATION DISTRICT
REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT
AND MEETS TECHNICAL REQUIREMENTS

US SOIL CONSERVATION SERVICE DATE
THIS PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT
CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT

HOWARD SOIL CONSERVATION DISTRICT DATE

RIEMER-TRACY & ASSOCIATES, INC.
8659 BALTIMORE NATIONAL PIKE
ELLCOTT CITY, MARYLAND 21043
LAND PLANNING, DESIGN & CIVIL ENGINEERING

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
12-18-80
DIRECTOR OF PUBLIC WORKS DATE

CHIEF, LAND DEVELOPMENT DIVISION DATE
12-18-80
CHIEF BUREAU OF ENGINEERING DATE
12/17/80
CHIEF BUREAU OF UTILITIES DATE

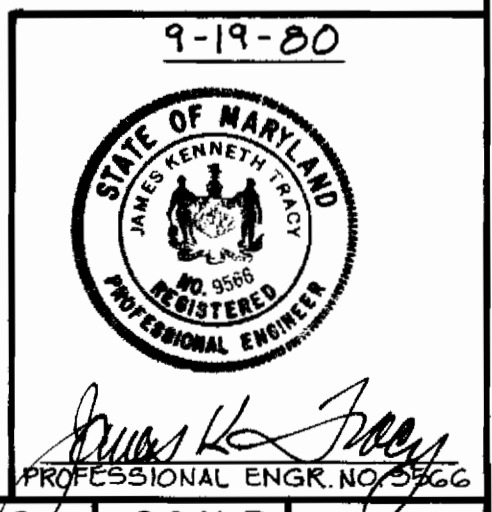
CONTRACT
NO. 24-0935-D

PROFILES OF SEWER MAINS

COLUMBIA
VILLAGE OF KINGS CONTRIVANCE
ELECTION DISTRICT GUILFORD NO. 6

DRAWING NO. 3 OF 3
SCALE H: 1"=100' V: 1"=10'

VK.C. Section 3, Area 1
Parcel 'D'-1
Contract No. 24-0935-D



A= Built 8/81

DECEMBER 4, 1980