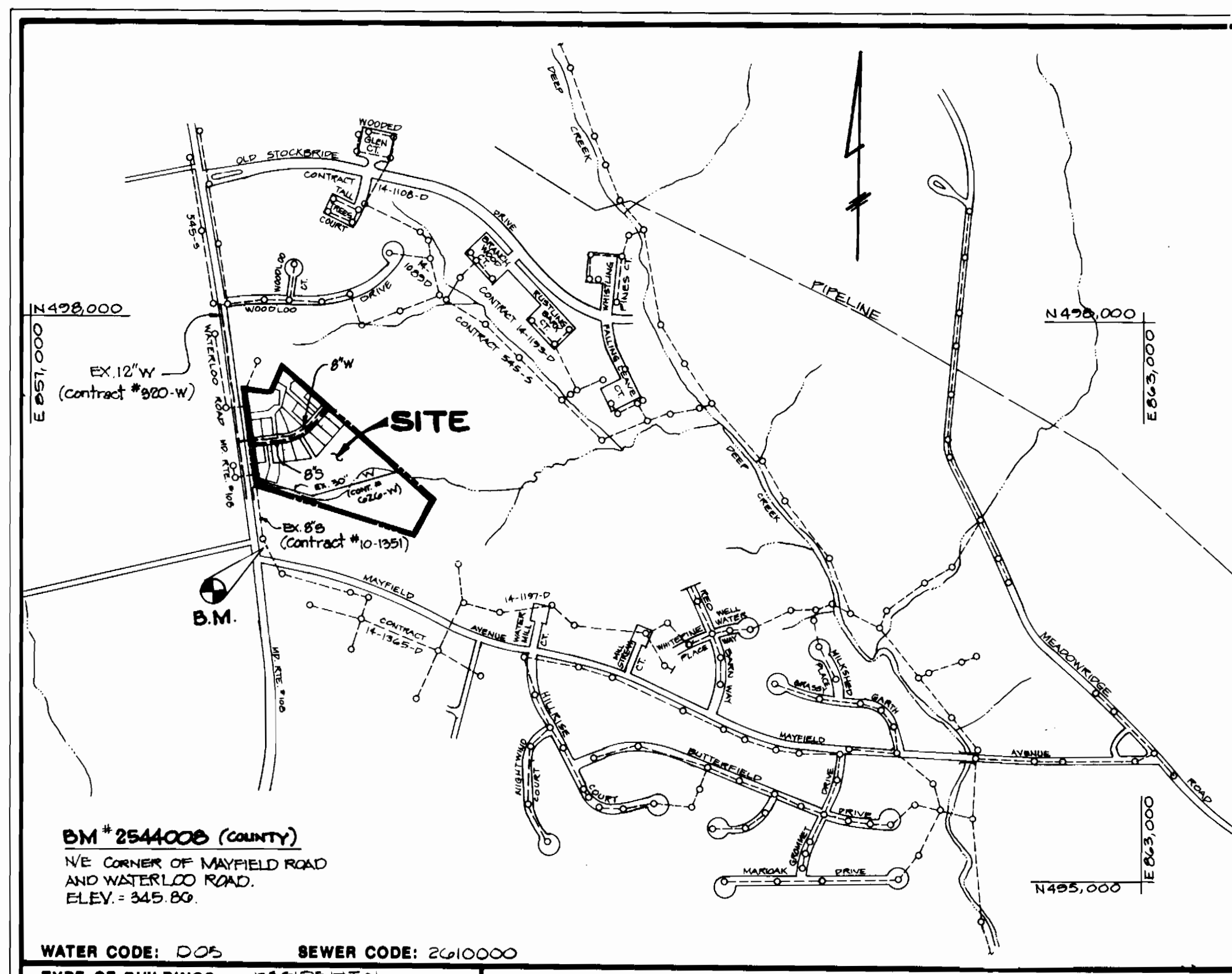


GENERAL NOTES

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 to the satisfaction of the engineer at the contractor's expense.
2. All horizontal controls are based on U.S.G.S. data.
3. All vertical controls are based on U.S.G.S. data.
4. All pipe elevations shown are invert elevations.
5. Clear all utilities by a minimum of 8'.
6. For details not shown on the drawings and for materials and construction methods, use Howard County Design Manual, Volume IV, Standard Specifications and Details for Construction. The contractor shall have a copy of Volume IV on the job.
7. Where test pits have been made on existing utilities, they are noted by the symbol. At the location of the test pit a note or notes containing the results of the test pit or pits is included on the drawings. Existing utilities in the vicinity of the proposed work for which test pits have not been dug shall be verified by the contractor to his own satisfaction. Any damage to existing facilities due to the contractor's negligence shall be repaired at the contractor's expense.
8. Contractor shall notify the following utilities or agencies at least five working days before starting work shown on these plans:

State Highway Administration	531-5533
Baltimore Gas & Electric Company	551-2585
Contractor Services	234-5821
Underground Damage Control	288-8013
Trouble Shooting	1-558-0100
Miss Utility	785-1280
Colonial Pipeline Company	892-2388
Howard County Department of Public Works	
Bureau of Utilities	
9. Trees and shrubs are to be protected from damage to maximum extent. Trees and shrubs 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. Payment for such removal shall be included in the unit price bid for construction of the main.
10. All water mains to be D.I.P. class 52 unless otherwise noted.
11. Top of all water mains to have a minimum of 3.5' cover unless otherwise noted.
12. Valves adjacent to lots shall be strapped to iron.
13. All fittings shall be buttressed or anchored with concrete in accordance with the standard details unless otherwise provided for on the drawings.
14. Fire hydrants shall be set to the bury line 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 shall be compacted in accordance with Section 1003 and 1008 of the standard specifications.
15. The contractor shall not operate any water main valves on the existing water system.
16. Water mains and water house connection lines must be placed so as to have at least one (1) foot separation from the sewer main or sewer house connection as they pass about it.
17. All sewer mains shall be C.S.P.X., R.C.S.P., V.C.P.X., A.C.P., Class 3400 or P.V.C. unless otherwise noted.
18. The contractor shall provide a joint in all sewer mains within 2'0" of the exterior manhole wall.
19. All manholes shall be 4'0" inside diameter unless otherwise noted.
20. Manholes shown with 12" and 18" walls are for brick manholes only.
21. Manholes located within proposed roadway shall have standard heavy traffic manhole frame and cover, standard detail 05-51.
22. All water house connections shall be inside meter setting.
23. All D.I.P. fittings shall be in accordance with A.W.W.A. Specification C-193 ductile iron compact fittings, 3-inch through 12-inch for water & other liquids.



DM # 2544000 (County)
N/E CORNER OF MAYFIELD ROAD
AND WATERLOO ROAD.
ELEV. = 345.80.

WATER CODE:	005	SEWER CODE:	2610000
TYPE OF BUILDINGS	RESIDENTIAL		
NUMBER OF LOTS	10		
NO. OF WATER HOUSE CONNECTIONS	10		
NO. OF SEWER HOUSE CONNECTIONS	10		
DRAINAGE AREA	PATAPOCO		

VICINITY MAP
SCALE: 1"=600'

SEDIMENT CONTROL MEASURES FROM THIS CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE SPECIFICATIONS AND AS SHOWN ON THE FINAL ROAD CONSTRUCTION PLANS (F-89-14).

HOWARD SOIL CONSERVATION DISTRICT REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS
[Signature] 5/9/89 DATE
S.S. SOIL CONSERVATION SERVICE

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

HOWARD SOIL CONSERVATION DISTRICT DATE

OWNER/
DEVELOPER
CHATEAU HOMES, INC.
8100 WOODEN GLEN CT.
ELLCOTT CITY, MD. 21043
(301) 799-5001

*FIRE HYDRANTS INCLUDE ALL NECESSARY VALVES, FITTINGS, AND STRAPPINGS

6" WATER	602 FT.		
6" WATER	20' (FIRE HYDRANT)		
2 1/2" W.H.G.	1 EA.		
2 1/2" W.H.G.	100 FT.		
1" W.H.G.	100 FT.		
2" FIRE HYDRANT	2 EA.		
2" VALVES	1 EA.		
6" SEWER	615 FT.		
6" SEWER H.G.	470 FT.		
MANHOLES	7 EA.		

ITEM	ESTIMATE	AS-BUILT	SUPPLIER
QUANTITIES			

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
DIRECTOR OF PUBLIC WORKS DATE 5/10/89
CHIEF BUREAU OF ENGINEERING DATE 5/10/89
CHIEF BUREAU OF UTILITIES DATE 5/10/89
CHIEF LAND DEVELOPMENT DIVISION DATE

D.S. THALER & ASSOC. INC.
11 WARREN ROAD
BALTIMORE, MARYLAND 21208
(301) 484-4100

[Signature]
HENRY F. SADLER DATE 4/28/89

DES	BLC/JTN				
DRN.	JLC				
CHK.	JTN				
DATE	APRIL, 1989	BY	NO.	REVISION	DATE

TITLE SHEET

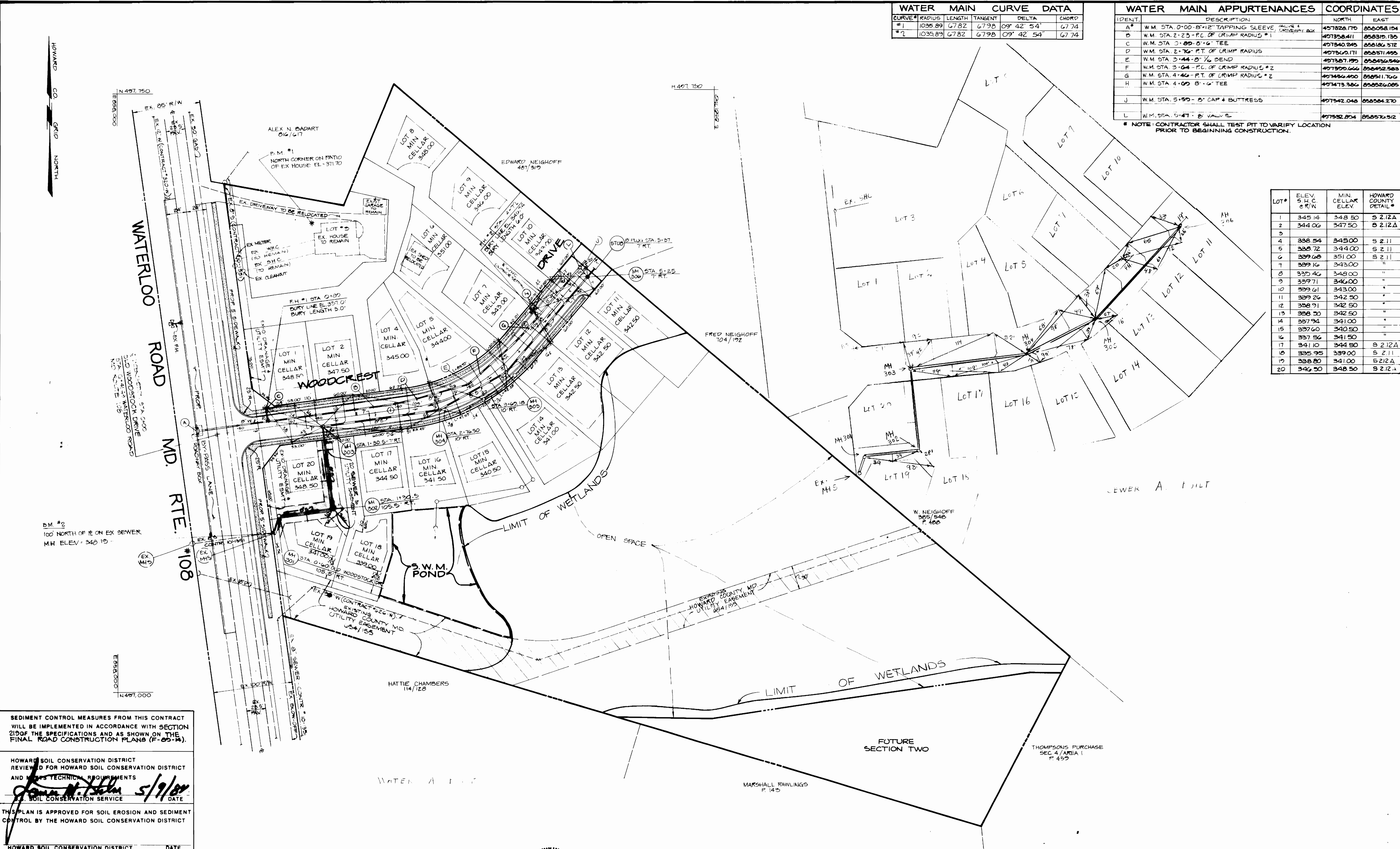
CONTRACT NO. 14-183G-D
WOODCREST
FIRST ELECTION DISTRICT HOWARD COUNTY, MD.
SECTION ONE
SCALE AS SHOWN SHEET 1 OF 3

CURVE #	RADIUS	LENGTH	TANGENT	DELTA	CHORD
#1	1035.89	67.82	67.98	09° 42' 54"	67.74
#2	1035.89	67.82	67.98	09° 42' 54"	67.74

IDENT.	DESCRIPTION	NORTH	EAST
A	W.M. STA. 0+00 - 8" x 12" TAPPING SLEEVE, VALVE & CLEANOUT BOX	457828.170	858058.104
B	W.M. STA. 2+23 - P.C. OF CRIMP RADIUS #1	457858.411	858315.135
C	W.M. STA. 2+88 - 8" x 6" TEE	457840.245	858186.572
D	W.M. STA. 2+76 - P.T. OF CRIMP RADIUS	457862.171	858311.495
E	W.M. STA. 3+44 - 8" x 6" BEND	457807.195	858436.546
F	W.M. STA. 3+64 - P.C. OF CRIMP RADIUS #2	457800.666	858452.583
G	W.M. STA. 4+46 - P.T. OF CRIMP RADIUS #2	457856.450	858511.766
H	W.M. STA. 4+00 - 8" x 6" TEE	457873.386	858526.085
J	W.M. STA. 5+50 - 8" CAP & BUTTRESS	457842.048	858584.270
L	W.M. STA. 5+47 - 8" VALVE	457892.874	858576.512

NOTE: CONTRACTOR SHALL TEST PIT TO VERIFY LOCATION PRIOR TO BEGINNING CONSTRUCTION.

LOT #	ELEV. 5'4" C. O.R./N	MIN. CELLAR ELEV.	HOWARD COUNTY DETAIL #
1	345.14	348.50	S 2.12A
2	344.06	347.50	S 2.12A
3			
4	338.54	345.00	S 2.11
5	338.72	344.00	S 2.11
6	339.68	341.00	S 2.11
7	339.16	343.00	"
8	339.46	348.00	"
9	339.71	346.00	"
10	339.61	343.00	"
11	339.26	342.50	"
12	338.91	342.50	"
13	338.50	342.50	"
14	337.94	341.00	"
15	337.60	340.50	"
16	337.56	341.50	"
17	341.10	344.50	S 2.12A
18	335.95	339.00	S 2.11
19	338.80	341.00	S 2.12A
20	346.50	348.50	S 2.12A



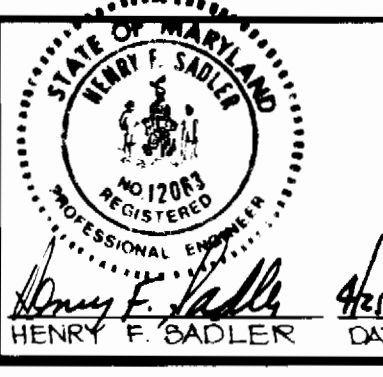
SEDIMENT CONTROL MEASURES FROM THIS CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE SPECIFICATIONS AND AS SHOWN ON THE FINAL ROAD CONSTRUCTION PLANS (P-05-14).

HOWARD SOIL CONSERVATION DISTRICT REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND METS TECHNICAL REQUIREMENTS
James M. Thaler 5/9/89 DATE
 SOIL CONSERVATION SERVICE

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

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND
 DIRECTOR OF PUBLIC WORKS DATE 5/10/89
 CHIEF BUREAU OF ENGINEERING DATE 5/10/89
 CHIEF BUREAU OF UTILITIES DATE 5/6/89
 CHIEF LAND DEVELOPMENT DIVISION DATE 5/10/89

D.S. THALER & ASSOC. INC.
 11 WARREN ROAD
 BALTIMORE, MARYLAND 21208
 (301) 484-4100

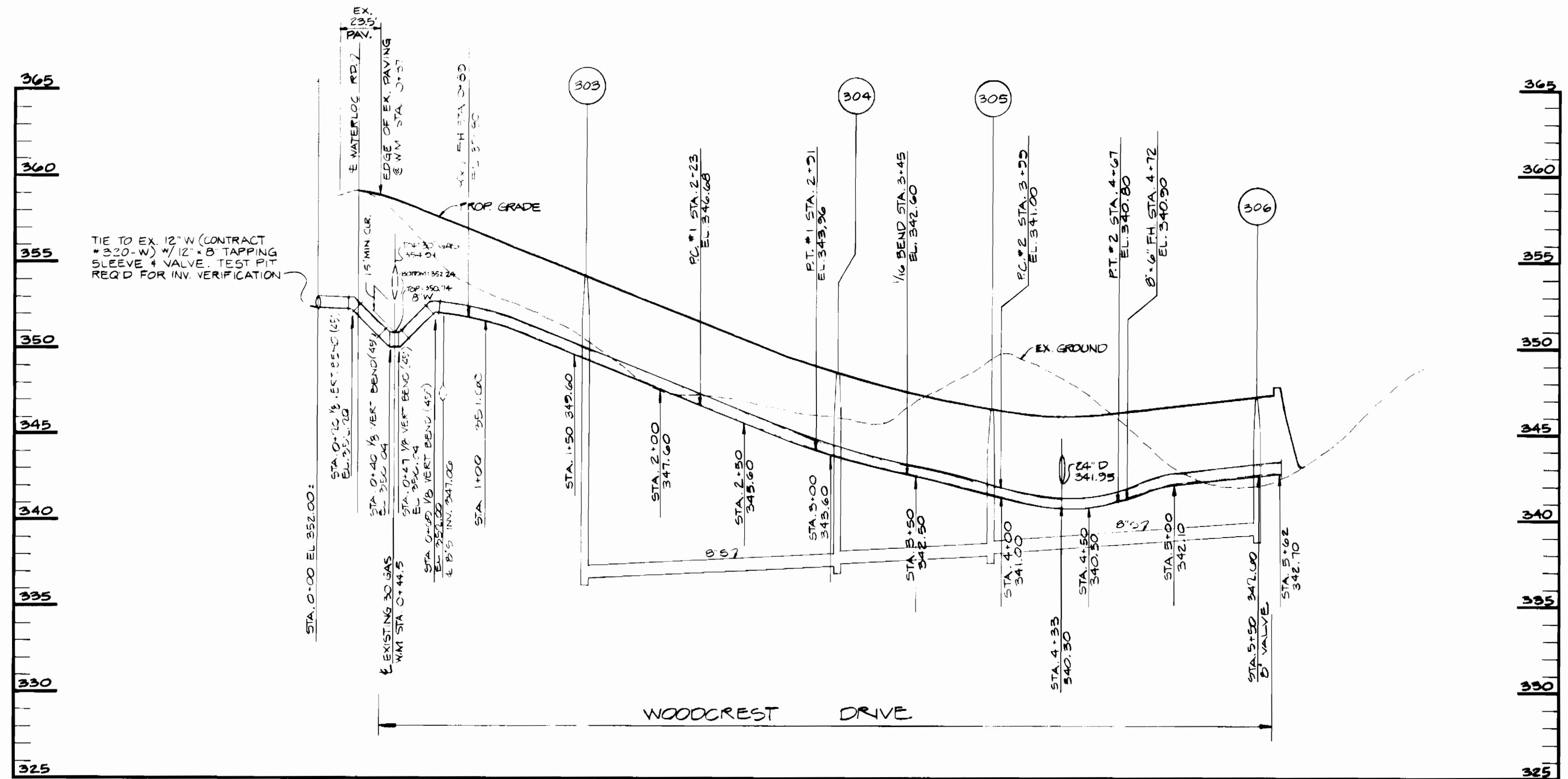
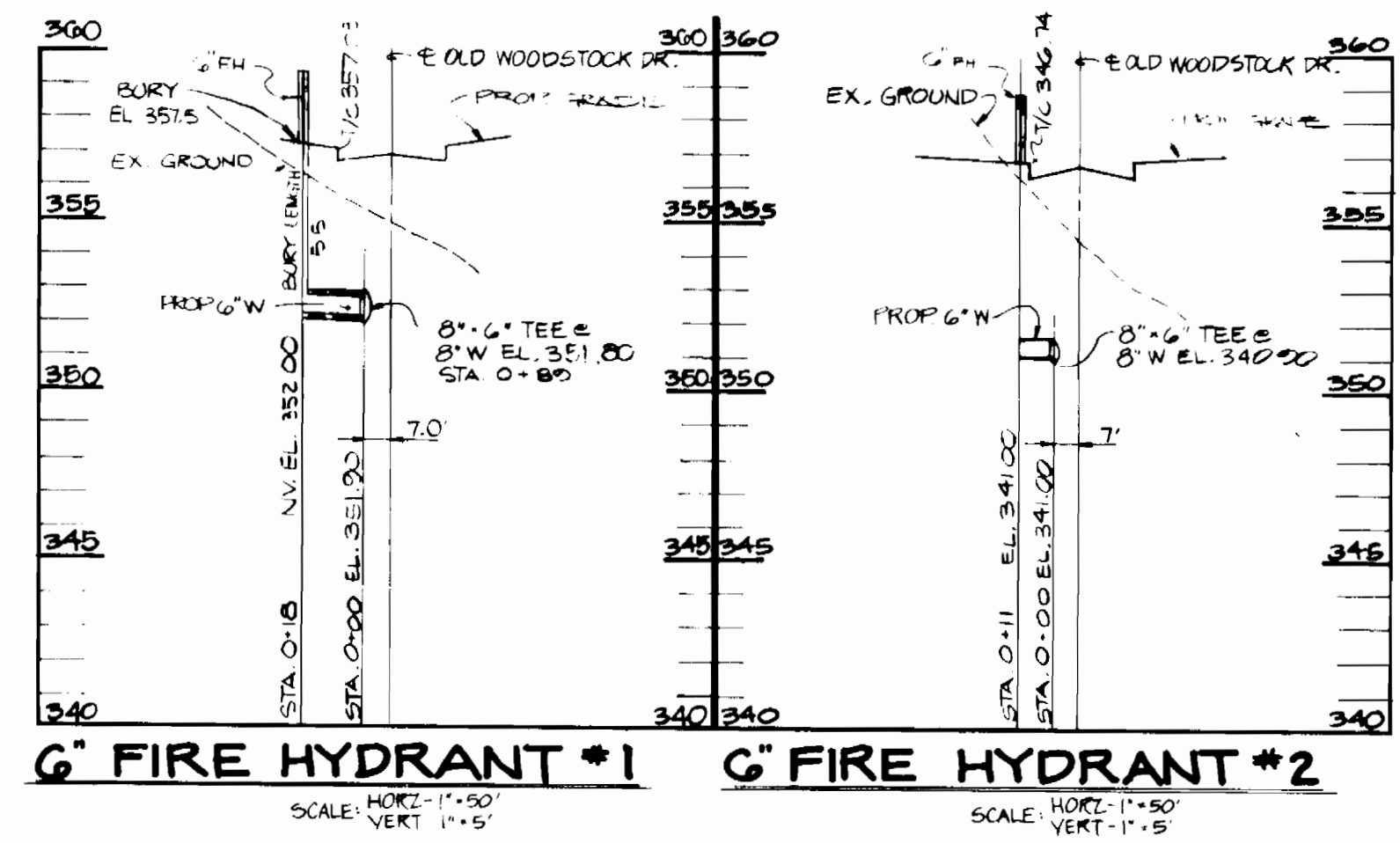


DES.	BLC/JTN				
DRN.	JTN				
CHK.	JTN				
DATE	APRIL, 1988	BY	NO.	REVISION	DATE

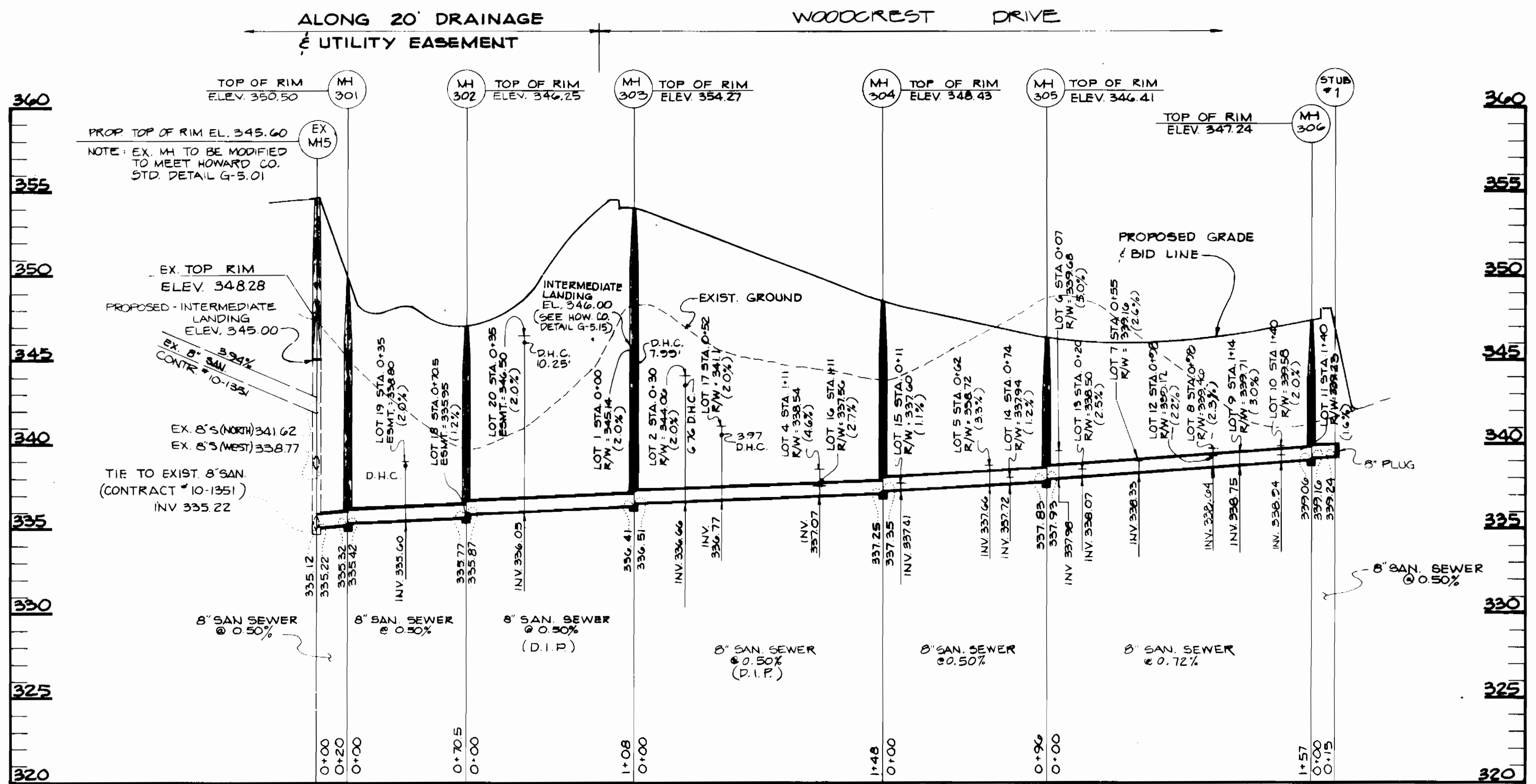
PLAN
 SEWER AND WATER MAINS

CONTRACT NO. 14-1836-D
 WOODCREST
 FIRST ELECTION DISTRICT HOWARD COUNTY, MD
 SECTION ONE
 SCALE: 1" = 30'
 SHEET 2 OF 3

AS-BUILT AUGUST 30 1989



WATER MAIN PROFILE
SCALE: HORIZ. 1"=50'
VERT. 1"=5'



SEWER MAIN PROFILE
SCALE: 1"=5' VERT.
1"=50' HORIZ.

SEDIMENT CONTROL MEASURES FROM THIS CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 210 OF THE SPECIFICATIONS AND AS SHOWN ON THE FINAL ROAD CONSTRUCTION PLANS (F-85-14).

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

[Signature] 5/19/89
DATE

US SOIL CONSERVATION SERVICE

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

HOWARD SOIL CONSERVATION DISTRICT DATE

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

[Signature] 5/16/89
DIRECTOR OF PUBLIC WORKS DATE

[Signature] 5/16/89
CHIEF BUREAU OF UTILITIES DATE

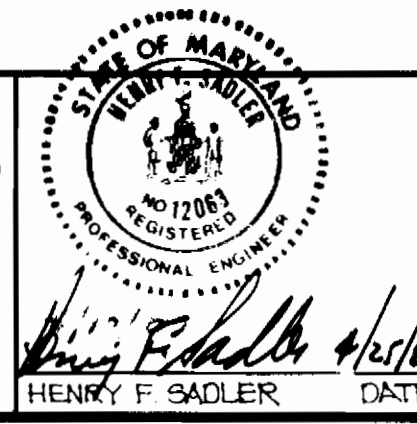
[Signature] 5/19/89
CHIEF BUREAU OF ENGINEERING DATE

[Signature] 5/19/89
CHIEF LAND DEVELOPMENT DIVISION DATE

D.S. THALER & ASSOC. INC.

11 WARREN ROAD
BALTIMORE, MARYLAND, 21208
(301) 484-4100

[Signature] 4/15/89
HENRY F. SADLER DATE



DES	BLC/JTN				
DRN.	JLC				
CHK.	JTN				
DATE	APRIL, 1988				
BY	NO.	REVISION		DATE	

PROFILES
SEWER AND WATER MAINS

CONTRACT NO. 14-1836-D
WOODCREST
FIRST ELECTION DISTRICT HOWARD COUNTY, MD.
SECTION ONE

SCALE AS SHOWN
SHEET 3 OF 3