

GENERAL NOTES

PART I - GENERAL

- Approximate locations 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.
- The existing topography is based on a field run Topographic Survey prepared by FSH Associates in March 2007, with a 2 foot contour interval.
- The coordinates shown on the drawings are based on Maryland State Reference System NAD 83/91 as projected by Howard County Geodetic Control Stations No.37HA and No. 0048. (see vicinity map)
- All vertical controls are based on NAVD'88. Vertical controls provided on the drawings are 37HA and 0048. (see vicinity map).
- All pipe elevations shown are invert elevations unless otherwise noted on the plans.
- Clear all utilities by a minimum of 12 inches. Clear all poles by 5'-0" minimum or tunnel as required unless otherwise noted. The owner has contacted the utility companies and has made arrangements for bracing of poles as shown on the drawings. In the event the contractor's work requires the bracing of additional poles, any cost incurred by the owner for the bracing of additional poles or damages shall be deducted from monies owned by the contractor. The contractor shall coordinate with the utility companies to schedule the bracing of the poles.
- For details not shown on the drawing, and for materials and construction methods, use Howard County Design Manual, Volume IV, Standard Specifications and Details for Construction (latest Edition). The contractor shall have a copy of Volume IV on the job.
- Where test pits have been made on existing utilities, they are noted by the symbol at the locations of the test pits. A note or notes containing the results of the test pits are included on the drawings. Existing utilities in the vicinity of the proposed work for which test pits have not been dug shall be located by the contractor two weeks in advance of construction operations at his own expense.
- The contractor shall notify the following utility companies or agencies at least five working days before starting work shown on these plans:
 AT + T 1,800.252.1133
 BGE(Construction Services) 410.850.4620
 BGE(Emergency) 410.605.1400
 Bureau of Utilities 410.313.4900
 Colonial Pipeline Company 410.795.1990
 Miss Utility 1,800.257.7777
 Verizon 1,800.743.0033/410.224.9210
 State Highway Administration 410.531.5533

- Trees and shrubs are to be protected from damage to the maximum extent. Trees and shrubs located within the construction strip are not to be removed or damaged by the Contractor.
- The Contractor shall remove trees, stumps and roots along line of excavation. Payment for such removal shall be included in the unit price bid for the construction of the main.
- The subject property is zoned "R-SC" per the 02/02/04 Comprehensive Zoning Plan.
- The Contractor shall notify the Bureau of Highways, Howard County, at 410.313.7450 at least five working days before any open cutting or boring/jacking of any county road for laying water/sewer mains or house connections. The approval of these drawings will constitute compliance with DPM requirements per Section 18.11(a) of the Howard County Code.
- Previous Howard County file numbers: S-03-15, F-02-54, WP-02-120, Plat #16263, Contr. #14-4004-D, Contr. #14-1331-D, F-09-14, Plat #8755.

PART II - WATER

- All water mains shall be D.I.P. Class 54 (C-900 PVC in corrosive Hot Spots only) unless otherwise noted.
- Tops of all water mains to have a minimum of 3'-6" of cover unless otherwise noted.
- Valves adjacent to tees shall be strapped to tees.
- All fittings shall be buttressed or anchored with concrete in accordance with the Standard Details unless otherwise provided for on the drawings.
- All Fire Hydrants shall be set to the bury line elevations shown on the drawings. All Fire Hydrants shall be restrained and buttressed with concrete in accordance with Standard Details. The soil around Fire Hydrant shall be compacted in accordance with Section 1000 and 1005 of the Standard Specifications.
- The Contractor shall not operate any water main valves on the existing water system.
- All water house connections shall be for inside meter settings unless otherwise noted on the plans or in specifications.
- All water house connections shall copper.

PART III - SEWER

- All sewer mains shall be D.I.P. or P.V.C. unless otherwise noted.
- All manholes shall be 4'-0" inside diameter unless otherwise noted.
- Force mains shall be D.I.P. only.
- Manholes shown with 12" and 18" walls are for brick manholes only.
- Manholes designated W.T. in plan and profiles shall have watertight frame & covers, Standard Detail GS-52. Where watertight manhole frame and cover is used, set top of frame 1'-6" above finished grade unless otherwise noted on the drawings.
- House(s) with the symbol "C.N.S." indicates that cellar cannot be served.

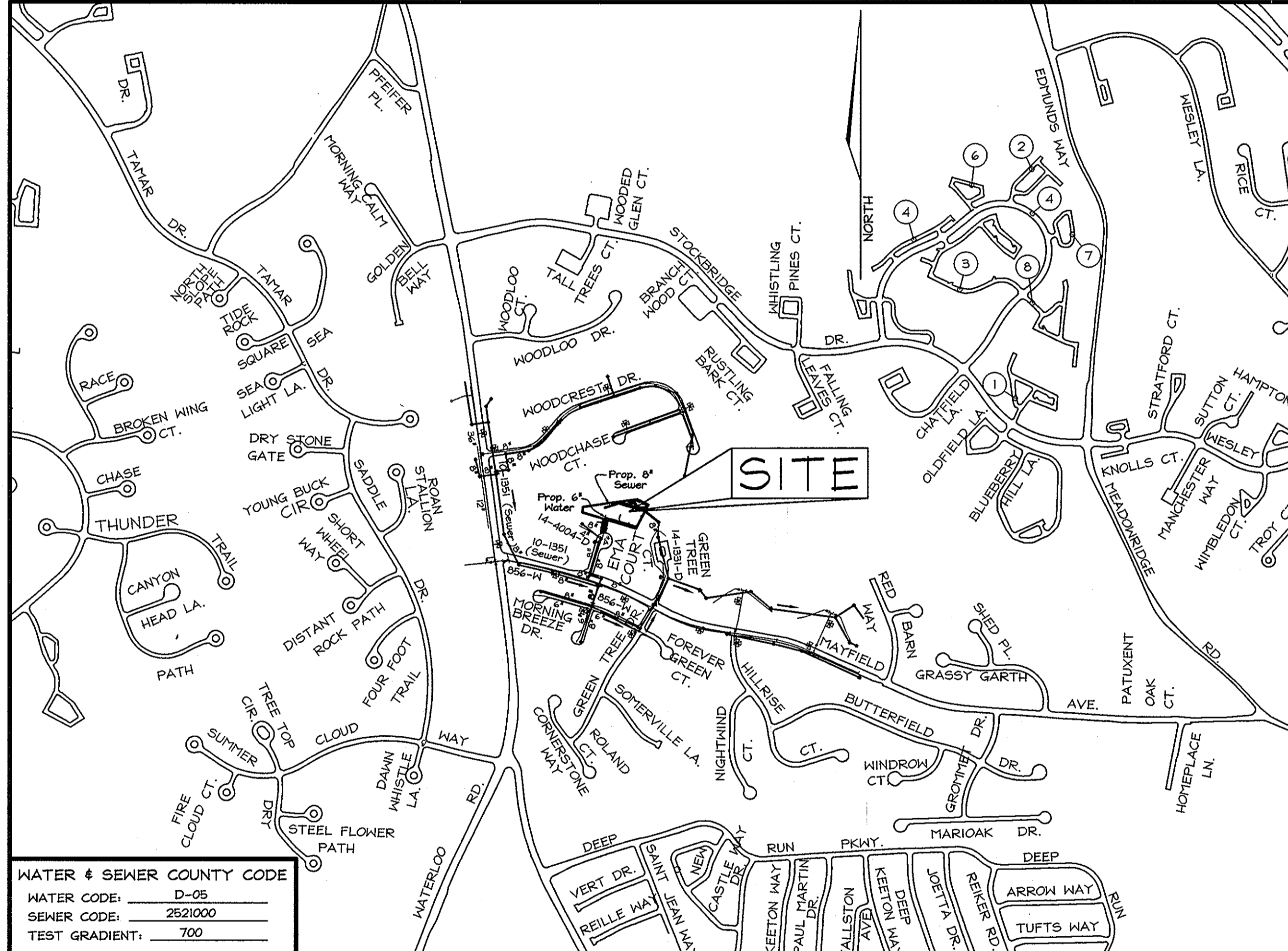
PUBLIC WATER AND SEWER FINAL PLANS

WOODCREST II

BUILDABLE LOTS 1, 3, 4 & 5 AND OPEN SPACE LOTS 2 & 6

HOWARD COUNTY, MARYLAND

CONTRACT NO.



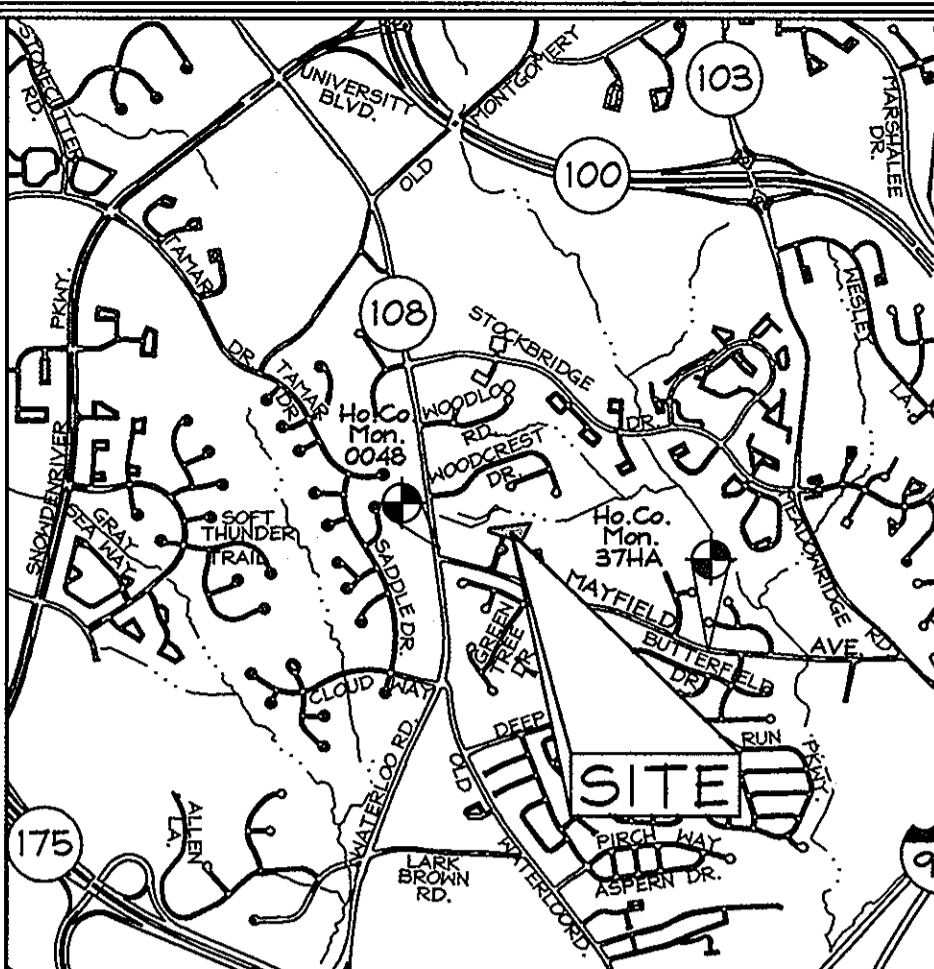
WATER & SEWER COUNTY CODE
 WATER CODE: D-05
 SEWER CODE: 2521000
 TEST GRADIENT: 700

TYPE OF BUILDING: RESIDENTIAL
 NO. OF LOTS/PARCELS: 4
 NO. OF WATER HOUSE CONNECTIONS: 4
 NO. OF SEWER HOUSE CONNECTIONS: 4
 SEWER SHED: PATAPSCO
 TREATMENT PLANT: PATAPSCO

VICINITY MAP
 SCALE: 1"=600'

LEGEND

- Existing contours ----- 552
- Proposed Contour ----- 552
- Existing Spot Elevation ----- 552.5
- Proposed Spot Elevation ----- +02.53
- Direction of Flow ----->
- Soils Line -----
- Fire Hydrant -----



VICINITY MAP
 SCALE: 1"=2000'
 ADC 16 grid G9

BENCHMARKS

- Howard County Monument 37HA
 N 169,605.2003 E 418,633.2584 El.: 86.4864 (meters)
 N 556,446.3947 E 1,373,465.9485 Elev. 283.747 (feet)
- Howard County Monument 0048
 N 169,934.3700 E 417,778.6100 El.: 106.0811 (meters)
 N 557,526.3466 E 1,370,661.9895 Elev. 348.034 (feet)

SHEET INDEX

DESCRIPTION	SHEET No.
Water and Sewer Cover Sheet	1 of 2
Water and Sewer Plan and Profile Sheet	2 of 2

QUANTITIES

NAME OF UTILITY CONTRACTOR : _____
 SURVEY AND DRAFTING DIVISION AS-BUILT DATE : _____

ITEMS	QUANTITIES ESTIMATED	AS-BUILT		
		QUANTITIES	TYPE	MANUFACTURER/SUPPLIER
SEWER MANHOLES	3 Ea.	3		ATLANTIC CONCRETE
8" SEWER	379 L.F.	378'	PVC SDR35	JM EAGLE
4" SHC	34 L.F.		PVC SDR35	JM EAGLE
6" WATER	280 L.F.		TYPE DIP CLASS 54	GRIFFIN
1" WHC	50 L.F.	60'	TYPE K	READING / BRS
1-1/2" Drain	10 L.F.	12'	TYPE K	BRS
6" CAP & BUTTRESS	1 Ea.	1		BRS
1/4" HB	1 Ea.	1		BRS
				BRS

SEDIMENT CONTROL MEASURES WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE STANDARD SPECIFICATIONS AND WITH FINAL PLAT F-08-044

THIS DEVELOPMENT IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD COUNTY SOIL CONSERVATION DISTRICT.
Wm K. Roberts 11/31/08
 SOIL CONSERVATION DISTRICT DATE

REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.
 U.S. SOIL CONSERVATION DISTRICT DATE

PROFESSIONAL CERTIFICATION
 I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland, License No. #22418, Expiration Date: 07/29/09.

OWNER
 Chateau Homes, Inc.
 5850 Waterloo Road
 Columbia, Maryland 21045
 c/o Richard Arzoo
 Tel: (410) 480-3699

DEVELOPER
 Azrael Glasser, Inc.
 5850 Waterloo Road
 Columbia, Maryland 21045
 c/o Richard Arzoo
 Tel: (410) 480-3699

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND
S.W. Cogan 1/24/08
 CHIEF, BUREAU OF UTILITIES DATE

DEPARTMENT OF PLANNING & ZONING
 HOWARD COUNTY, MARYLAND
W.D. Damann 2/10/08
 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

FSH Associates
 Engineers Planners Surveyors
 6339 Howard Lane, Elkridge, MD 21075
 Tel: 410-567-6200 Fax: 410-796-1562
 E-mail: info@fsh.net

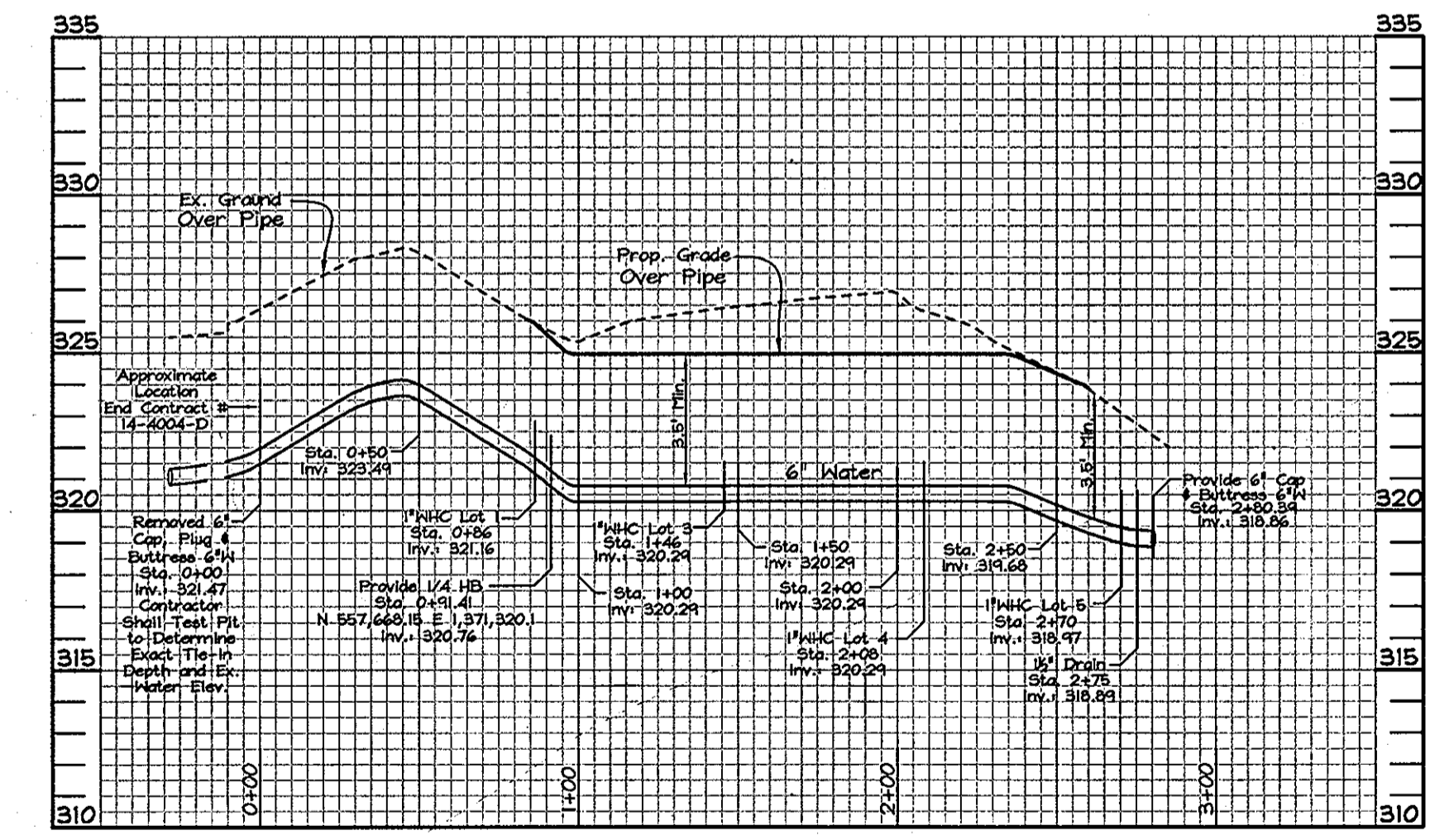
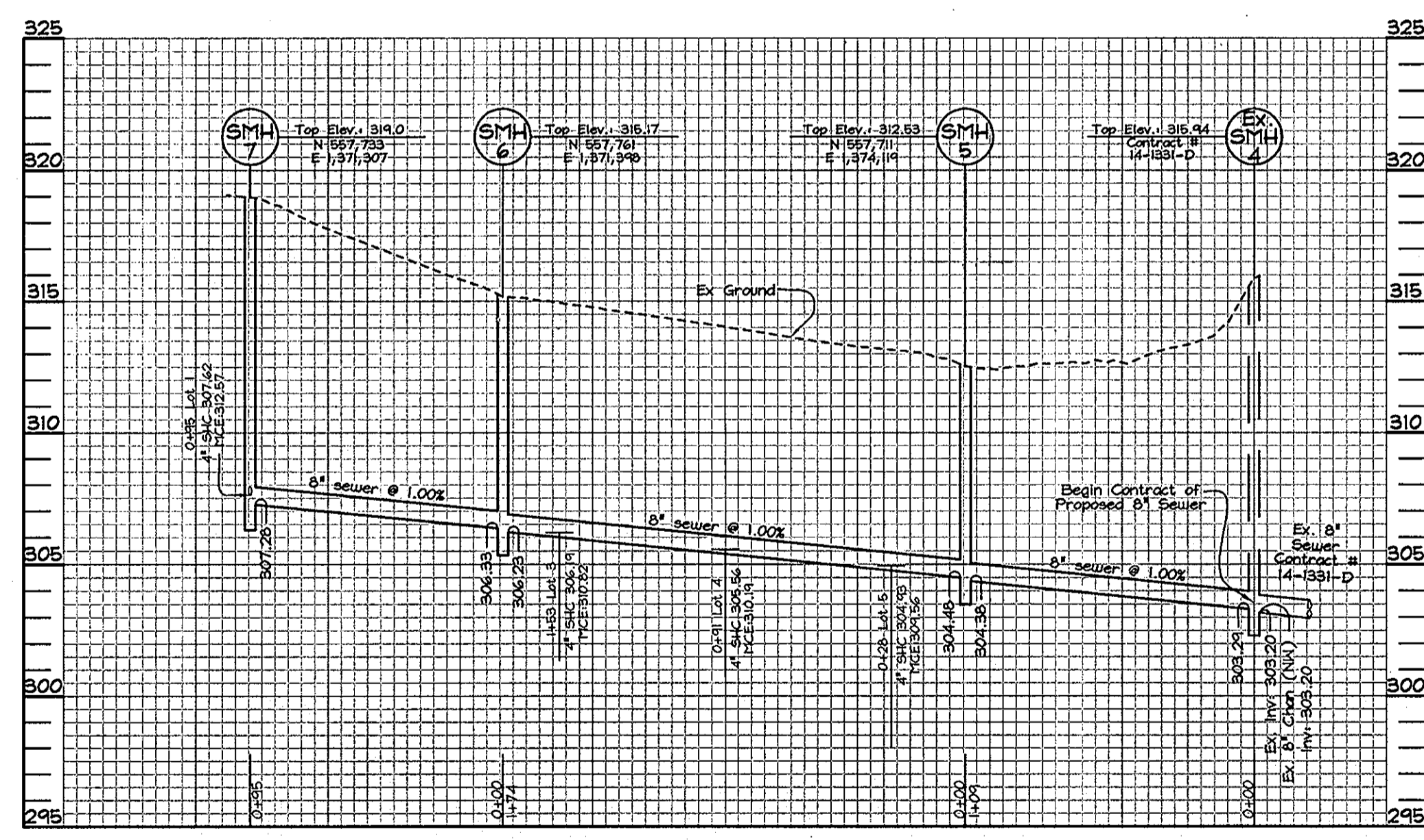
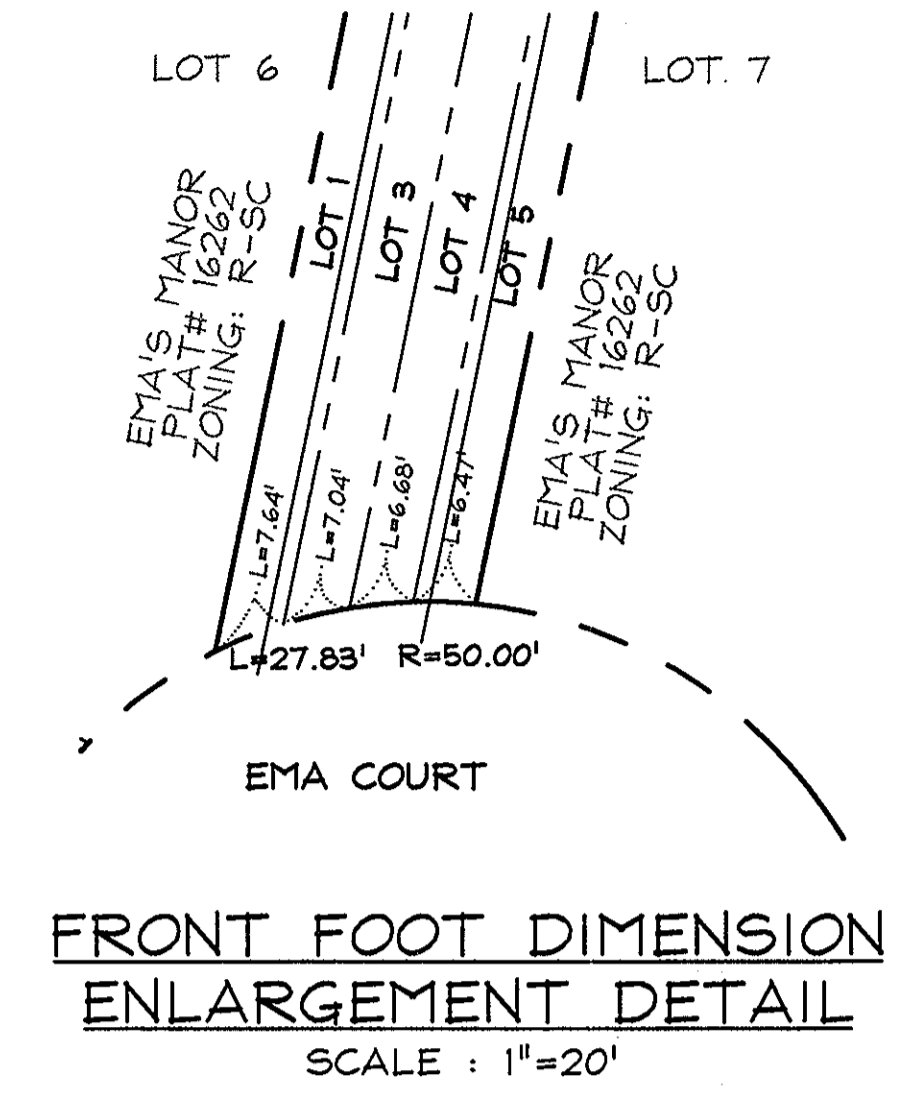
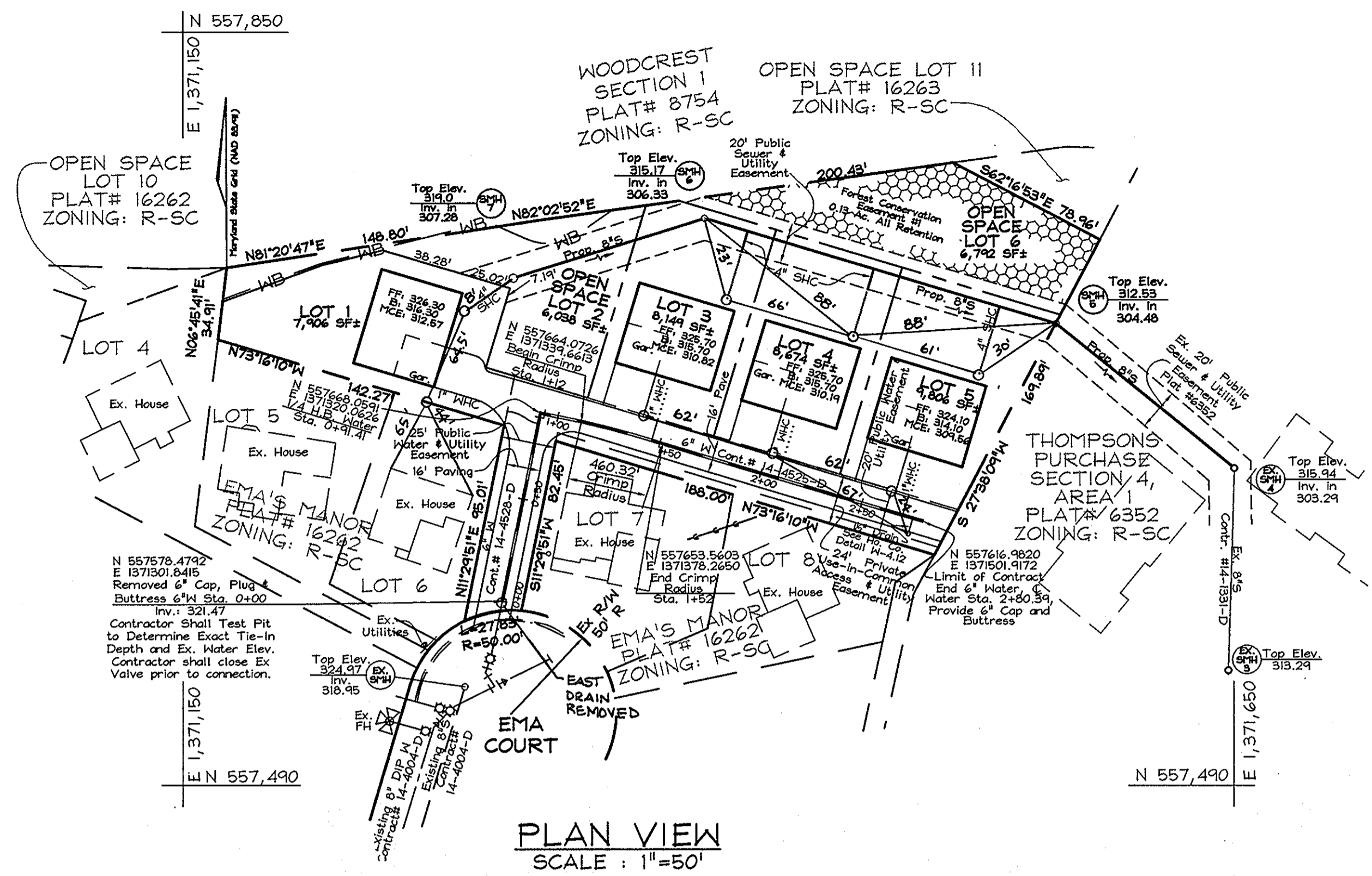
DESIGN BY: ZYF
 DRAWN BY: AY
 CHECKED BY: ZYF
 DATE: Jan. 16, 2008

BY NO.	REVISION	DATE
KC1 1	AS-BUILT REVISIONS	12-28-10
	REVISION	

FINAL WATER AND SEWER COVER SHEET
 600' SCALE MAP NO.: 37 BLOCK NO.: 14

WOODCREST II
 BUILDABLE LOTS 1, 3, 4 & 5 AND OPEN SPACE LOT 2 & 6
 CONTRACT NO. 14-4528-D
 TAX MAP 37 PARCEL 14B
 1ST ELECTION DISTRICT HOWARD COUNTY, MARYLAND

SCALE AS SHOWN
 SHEET NO. 1 OF 2



Lot No.	Station	4" SHC Inv. @ 8" Sewer Main	SHC Inv. @ Easement Line*	MINIMUM CELLAR ELEVATION	ACTUAL CELLAR ELEVATION
Lot 1	@ MH 7	4" SHC Inv.: 307.62	307.72	312.57	308.12
FROM SMH 5 TO SMH 6					
Lot 3	1+53	4" SHC INV.: 306.19	306.39	310.82	306.86
Lot 4	0+41	4" SHC INV.: 305.56	305.76	310.19	306.23
Lot 5	0+28	4" SHC INV.: 304.93	305.13	309.56	305.60

* Note: All S.H.C.'s are on a 2.0% slope, from sewer main to easement line. All S.H.C.'s are on a 2.0% slope from easement line to rear B.R.L. (minimum cellar elevation), unless specified.

MH #	€ ROAD STATION & € OFFSET	TOP MH ELEVATION	REMARKS	TYPE OF M.H.
5	N 557,711.05 E 1,371,565.42	312.53±	Yard MH	STD M.H. G-5.01
6	N 557,761.33 E 1,371,398.14	315.17±	Yard MH	STD M.H. G-5.01
7	N 557,732.78 E 1,371,307.19	319.0±	Yard MH	STD M.H. G-5.01

PROFESSIONAL CERTIFICATION
I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland, License No. #22418, Expiration Date: 07/29/04.

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DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND <i>Steve C. Cooney</i> CHIEF, BUREAU OF UTILITIES	DEPARTMENT OF PLANNING & ZONING HOWARD COUNTY, MARYLAND <i>William J. Damm</i> CHIEF, DEVELOPMENT ENGINEERING DIVISION	FSH Associates Engineers Planners Surveyors 6339 Howard Lane, Elkridge, MD 21075 Tel: 410-567-5200 Fax: 410-796-1562 E-mail: info@fsh.net	DESIGN BY: <u> </u> ZYF DRAWN BY: <u> </u> AY CHECKED BY: <u> </u> ZYF DATE: <u>Jan. 16, 2008</u>	KCI 1 AS-BUILT REVISIONS BY NO. REVISION DATE	FINAL WATER AND SEWER PLAN 600' SCALE MAP NO.: <u>37</u> BLOCK NO.: <u>14</u>	WOODCREST II BUILDABLE LOTS 1, 3, 4 & 5 AND OPEN SPACE LOT 2 & 6 CONTRACT NO. 14-4528-D TAX MAP 37 PARCEL 143 1ST ELECTION DISTRICT HOWARD COUNTY, MARYLAND	SCALE AS SHOWN SHEET NO. <u>2 OF 2</u>
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