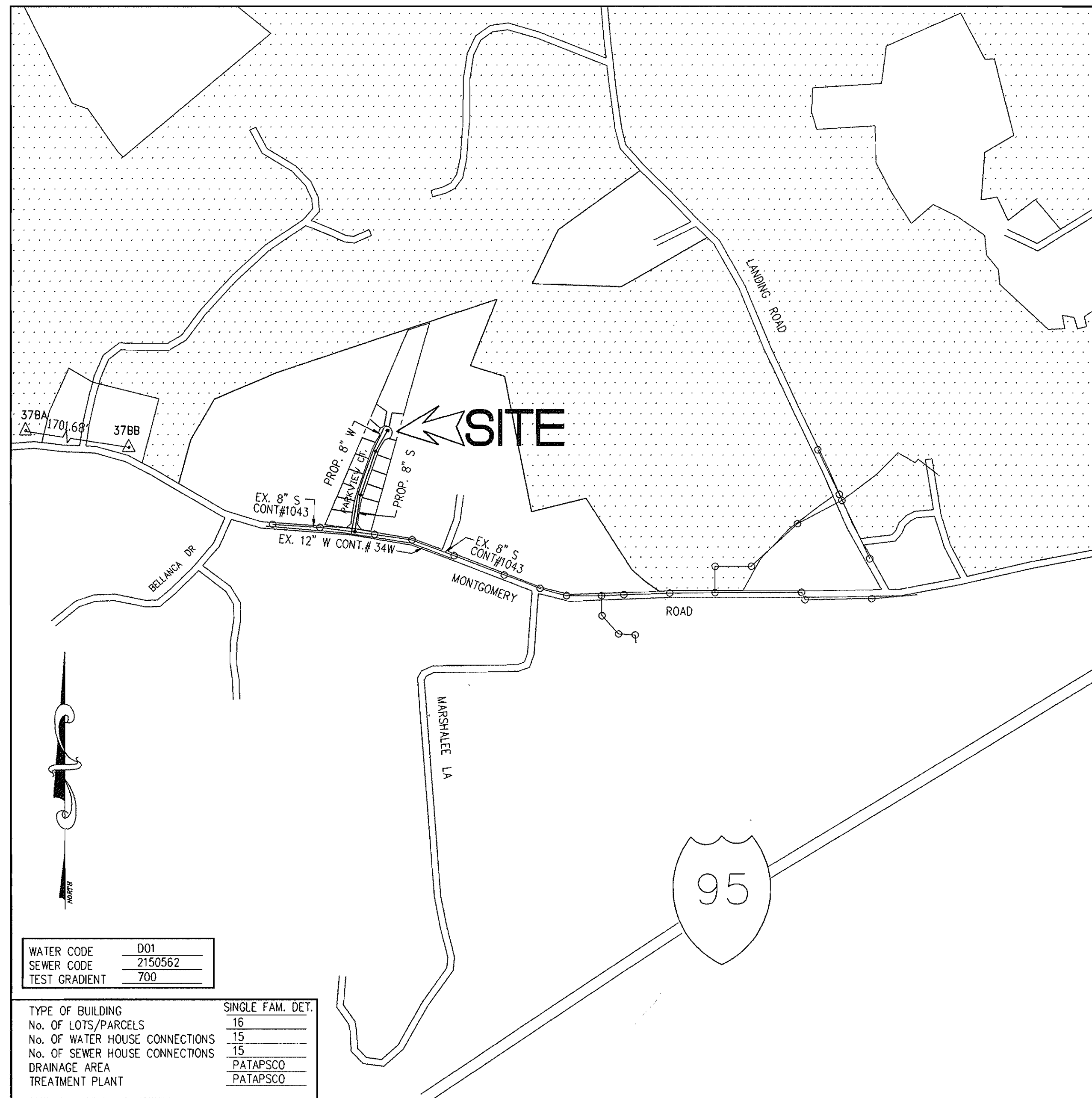


ITEMS	QUANTITIES ESTIMATED	AS-BUILT	
		QUANTITIES	TYPE MANUFACTURER/SUPPLIER
8" WATER MAIN	818 LF	818 LF	D.I.P. U.S. PIPE & FOUNDRY
6" WATER	45 LF	44 LF	" " " " " "
FIRE HYDRANT	2 EACH	2 EA	BURY SUPER MUELLER COMP
12" X 8" TEE & VALVE	1 EACH	1 EA	3480 POWER SEAL
8" X 6" TEE	2 EACH	2 EA	D.I.P. U.S. PIPE & FOUNDRY
3/4" WHC	403 LF	442 LF	SWITCHER (K) READING TUBE
8" PLUG	1 EACH	1 EA	M.S. COMPANY (GALV) U.S. PIPE & FOUNDRY
8" SEWER MAIN	793 LF	780 LF	PVC SDR 35 J-M MANUFACTURING
MANHOLE	4 EACH	4 EA	PROBEST COR. ATLANTIC CONG. PRODUCTS INC
4" SHC	453 LF	444 LF	PVC SDR 35 J-M MANUFACTURING



WATER CODE	001
SEWER CODE	2150562
TEST GRADIENT	700

TYPE OF BUILDING	SINGLE FAM. DET.
No. OF LOTS/PARCELS	16
No. OF WATER HOUSE CONNECTIONS	15
No. OF SEWER HOUSE CONNECTIONS	15
DRAINAGE AREA	PATAPSCO
TREATMENT PLANT	PATAPSCO

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. [North American Datum of 1983 (NAD '83)].
- Vertical controls shall be based on NAVD29.
- 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. The owner has contracted the utility companies and has arrangements for bracing of the poles as shown on the drawings. In the event the contractor's works requires the bracing of additional poles, any cost incurred by the owner for bracing of additional poles or damages shall be deducted from money owed the contractor. The contractor shall coordinate with the utility companies to schedule the bracing of the poles.
- 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 (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 symbols at the location of the test pit. A note or notes containing the results of the test pit or 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.
- Contractors shall notify the following utility companies or agencies at least five working days before starting work shown on these plans:

State Highways Administration	531-5533
BC&E Co. Contractors Services	850-4620
BC&E Co. Under Ground Damage Control	787-9068
Miss Utility	1-800-257-7777
Colonial Pipeline Co.	795-1390
Howard County Department of Public Works Bureau of Utilities	313-4900
- 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 main.
- All water mains to be D.I.P. Class 52 unless otherwise noted.
- Tops of all water mains to have a minimum of 3-1/2' 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.
- 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. Soil around the 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 setting unless otherwise noted on plans or in specifications.
- All sewer mains shall be DIP and P.V.C. unless otherwise noted.
- All manholes shall be 4'-0" inside diameter unless otherwise noted.
- Manholes shown with 12" and 16" walls are for brick manholes only.
- Manholes designated W.T. in plan and profile shall have watertight frame and covers, Standard Detail G5.52.
- 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.
- The contractor shall notify the bureau of Highways, Howard County, at (410) 313-2450 at least five (5) working days before any open cut of any County road or boring/jacking operation in County roads for laying water/sewer mains or house connections. The approval of these drawings will constitute compliance with DPW requirements per Section 18.114(a) of the Howard County Code.

DEVELOPER :
KATHLEEN M. BOWEN
3414 CENTENNIAL LANE
ELLCOTT CITY, MD. 21042

DEVELOPER :
MR. L. RAY RACHUBA
DUCKETTS LANE JV.
946-A MARMICH CT.
ELDERSBURG, MD. 21784

REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.
Cheryl Simmons 4/23/99
U.S. NATURAL RESOURCES CONSERVATION SERVICE DATE

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD COUNTY SOIL CONSERVATION DISTRICT FOR F-12-77.
John J. Robertson 4/22/99
HOWARD COUNTY SOIL CONSERVATION DISTRICT DATE

WATER AND SEWER CONSTRUCTION PLAN

ROCKBURN RUN

LOTS 1-16

A SUBDIVISION OF PARCEL 51

CONTRACT No. 14-3676-D

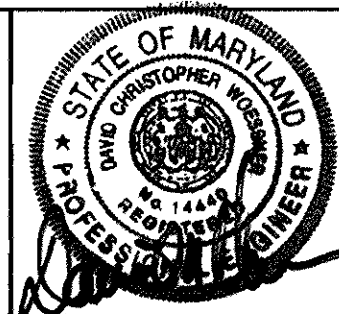
1st ELECTION DISTRICT TAX MAP 37

HOWARD COUNTY, MARYLAND

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND.
Robert S. ... 4-23-98
CHIEF, BUREAU OF UTILITIES DATE

DEPARTMENT OF PLANNING & ZONING
HOWARD COUNTY, MARYLAND.
Harold ... 4/21/98
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

PREPARED BY :
AMERICAN LAND DEVELOPMENT AND ENGINEERING INC.
CIVIL ENGINEERING CONSULTANTS
AND LAND PLANNER
9305 FURROW AVE. TEL. (410) 992-8204
ELLCOTT CITY, MD 21042 TEL. (410) 992-8205



DES : J.H.E.
DRN : AVG.
CHK : D.C.W.
DATE : 4-12-98
BY :
NO. :
REVISION :
DATE : 10/12/98
REVISION : ADDED TO PLANS

PLAN AND PROFILE FOR
WATER AND SEWER MAIN
"AS-BUILT" CONDITIONS

600' SCALE MAP NO. 37 BLOCK NO. 5

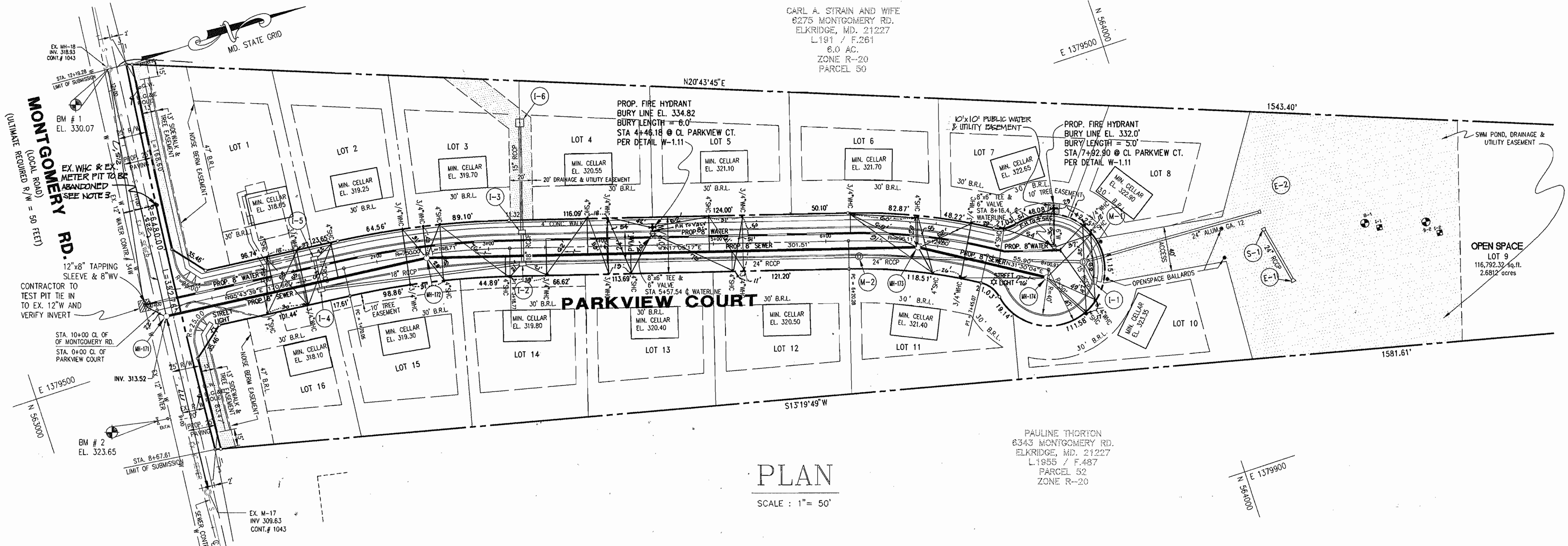
ROCKBURN RUN
LOTS 1-16
A SUBDIVISION OF PARCEL 51
CONTRACT No. 14-3676-D
1st ELECTION DISTRICT TAX MAP 37
HOWARD COUNTY, MARYLAND

SCALE
AS
SHOWN

SHEET
1 OF 2

CARL A. STRAIN AND WIFE
 6275 MONTGOMERY RD.
 ELKBRIDGE, MD. 21227
 L191 / F.261
 6.0 AC.
 ZONE R-20
 PARCEL 50

E 1379500
 N 000455



PLAN
 SCALE: 1" = 50'

PAULINE THORNTON
 6343 MONTGOMERY RD.
 ELKBRIDGE, MD. 21227
 L1955 / F.487
 PARCEL 52
 ZONE R-20

E 1379900
 N 000495

- NOTES:
- FOR THE CONSTRUCTION OF MANHOLE MH-171, SEE NOTE ON PROFILE.
 - THE EXISTING SEPTIC SYSTEM ON SITE WILL BE ABANDONED IN ACCORDANCE WITH HEALTH DEPARTMENT REQUIREMENTS AT THE TIME THE EXISTING BUILDING IS RAZED.
 - DEVELOPER WILL NOTIFY BUREAU OF UTILITIES TO CLOSE EX. WATER ACCOUNT FOR 6281 MONTGOMERY ROAD. UTILITY CONTRACTOR SHALL DISCONNECT EX. W.A.C. AT 12" WATER MAIN AND ENCASE CORPORATION IN CONCRETE.

OWNER:
KATHLEEN M. BOWEN
 3414 CENTENNIAL LANE
 ELLICOTT CITY, MD. 21042

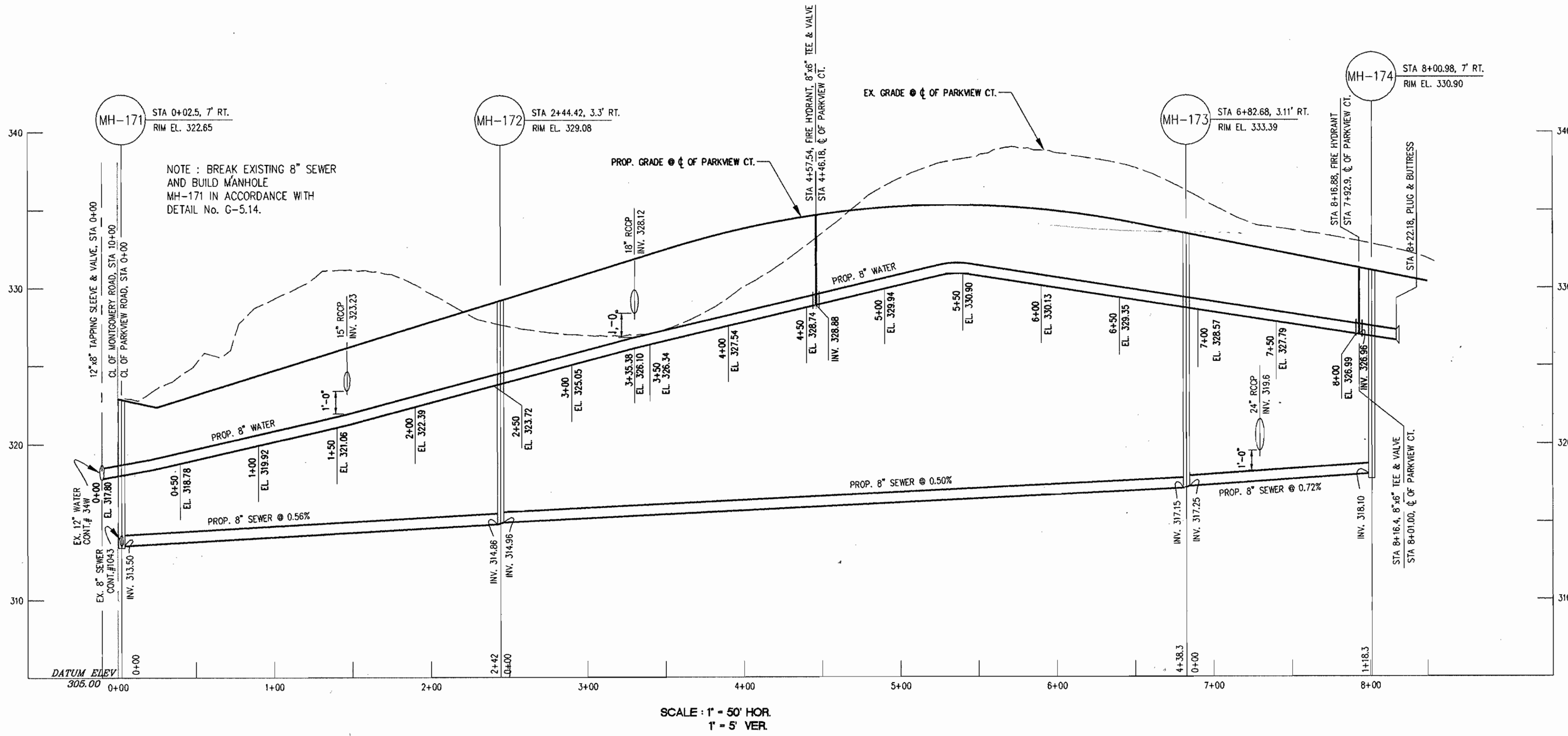
DEVELOPER:
MR. L. RAY RACHUBA
 DUCKETTS LANE J.V.
 946-A MARMICH CT.
 ELDERSBURG, MD. 21784

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

U.S. NATURAL RESOURCES CONSERVATION SERVICE DATE

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD COUNTY SOIL CONSERVATION DISTRICT FOR F-98-77.

HOWARD SOIL CONSERVATION DISTRICT DATE



4" SHC INVERT TABLE

8" SEWER STATION	INV. @ STA 8" SEWER	INV. @ 2.0%	LOT #
@ MH-171			
0+00	313.50	-	-
0+95	314.03	314.40	16
1+05	314.09	314.72	1
1+60	314.40	315.04	2
@ MH-172			
0+00	314.96	315.66	3
0+00	314.96	315.46	15
0+70	315.31	315.67	14
1+45	315.69	316.33	4
1+80	315.86	316.22	13
2+50	316.21	316.85	5
2+70	316.31	316.69	12
@ MH-173			
0+00	317.25	317.81	6
0+00	317.25	317.75	11
0+70	317.75	318.24	7
@ MH-174			
0+00	318.07	319.17	8
0+00	318.07	319.01	10

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND.

Robert D. Davis 4-23-98
 CHIEF, BUREAU OF UTILITIES DATE

DEPARTMENT OF PLANNING & ZONING
 HOWARD COUNTY, MARYLAND.

John Dammann 4/27/98
 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

PREPARED BY:
AMERICAN LAND DEVELOPMENT AND ENGINEERING INC.
 CIVIL ENGINEERING CONSULTANTS
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9305 FURROW AVE. TEL. (410) 992-8204
 ELLICOTT CITY, MD 21042 TEL. (410) 992-8205



DES: J.H.E.
 DRN: AVG.
 CHK: D.C.W.
 DATE: 4-12-98

BY NO. REVISION DATE

WATER AND SEWER CONDITIONS ADDED TO

**PLAN AND PROFILE FOR
 WATER AND SEWER MAIN**

600' SCALE MAP NO. 37 BLOCK NO. 5

ROCKBURN RUN
 LOTS 1-16
 A SUBDIVISION OF PARCEL No. 51
 CONTRACT NO. 14-3676-D
 1st ELECTION DISTRICT, TAX MAP 37
 HOWARD COUNTY, MARYLAND

SCALE AS SHOWN
 SHEET 2 OF 2