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 service. Any damage incurred shall be repaired immediately to the satisfaction of the Engineer at the contractor's

2. The existing topography is taken from low level flight and aerial surevy with 2' contour Intervals prepared by 3DI dated April 8, 2002. Supplemental field run topo by DMW, dated September 2002.

3. Horizontal and Vertical Controls: 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.#31ea and No.#37CA.

All vertical controls are based on NAVD '88. Vertical controls provided on the drawings are BM1, #31EA-Disc set in concrete, N569641.123, E1374815.935, Elev.468.90, 2' south of sidewalk on Illchester Road ± 47.1' from gate in fence on the transmission line R.O.W. BM2-#37CA-Disc set in concrete, N569641.123, E1382742.880, Elev. =256.965, 20.6 south of centerline of Landing Road, 0.25 miles northwest on Landing Road from Intersection of Landing Road and Montgomery Road.

4. All pipe elevations shown are invert elevations unless

5. Clear all utilities by a minimum of 12". 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 bracing of additional poles or damages shall be deducted from monies owed the contractor. The contractor shall coordinate with the utility companies to schedule the

6. For details not shown on the drawings and for materials and construction methods use Howard County Design Manual, Volume IV, Standard Specifications and Detail for Construction (latest edition). 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 **B** at the locations of the test pits. 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 located by the contractor two weeks in advance of construction operations at his own expense.

8. The contractor shall notify the following utility companies or agencies at least five working days before starting work

shown on these plans: BG&E (Construction Services) BG&E (Emergency) Bureau of Utilities Colonial Pipeline CO. Miss Utility

State Highway Administration

410-531-5533

1-800-742-0033/410-224-9210 9. 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

10. Contractor shall remove trees, stumps, and roots along included in the unit price bid for construction of the main. 11. The contractor shall notify the Bureau of Highways, Howard County, at (410) 313-7450 at least five working days

before any open cut of any county road or boring/jacking of any 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.

PART III - SEWER

1. All sewer mains shall be P.V.C. or DIP unless otherwise

2. All manholes shall be 4'-0" inside diameter unless otherwise

3. Force mains shall be D.I.P. only. 4. Manholes shown with 12" and 16" walls are for brick

manholes only. 5. Manholes designated W.T. In plan and profile shall have watertight frame and cover, Standard Detail G5.52. Where watertight manhole frames and covers are used, set top of frame 1'-6" above finished grade unless otherwise noted

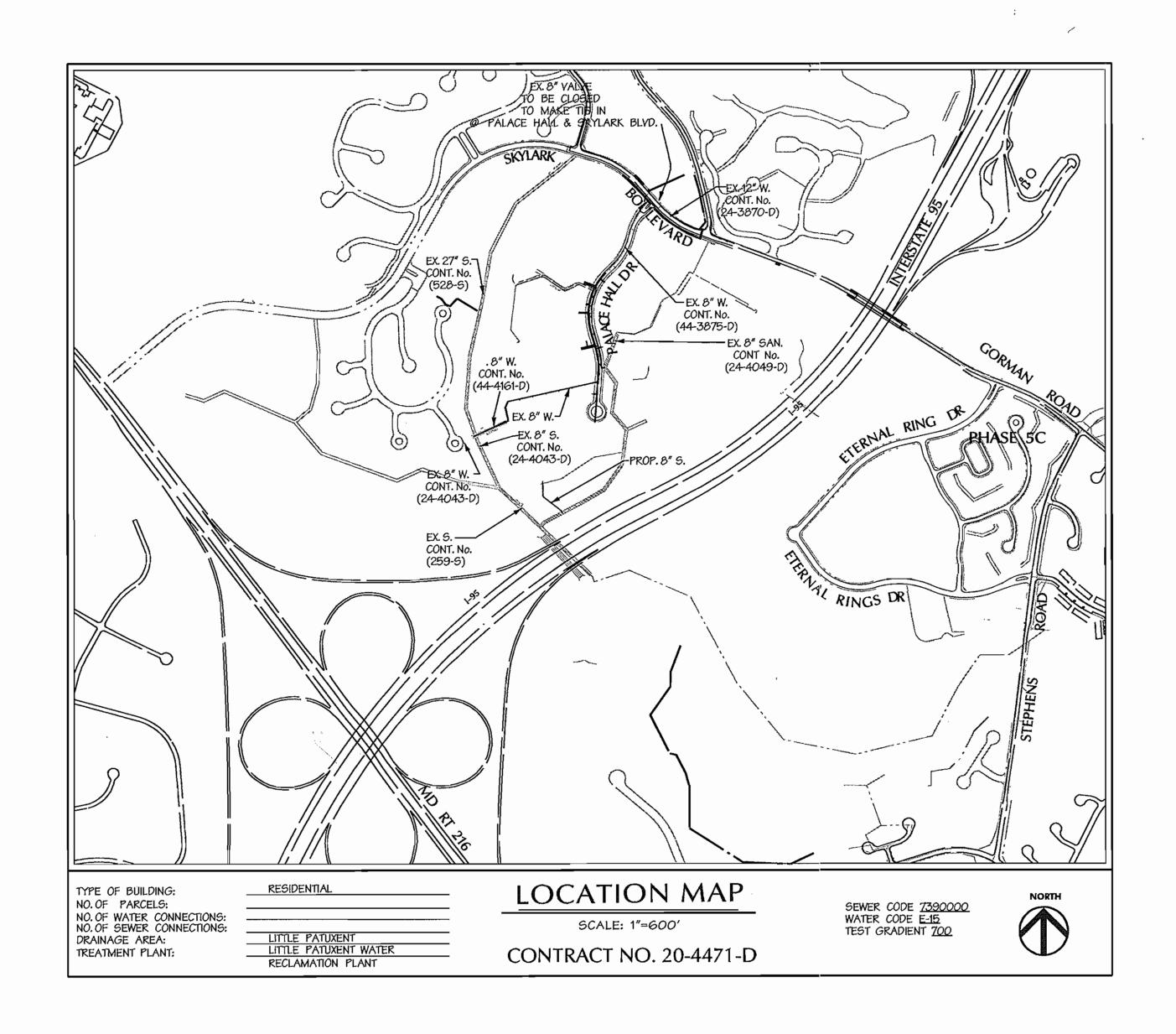
6. House(s) with the symbol "C.N.S." indicates that cellar

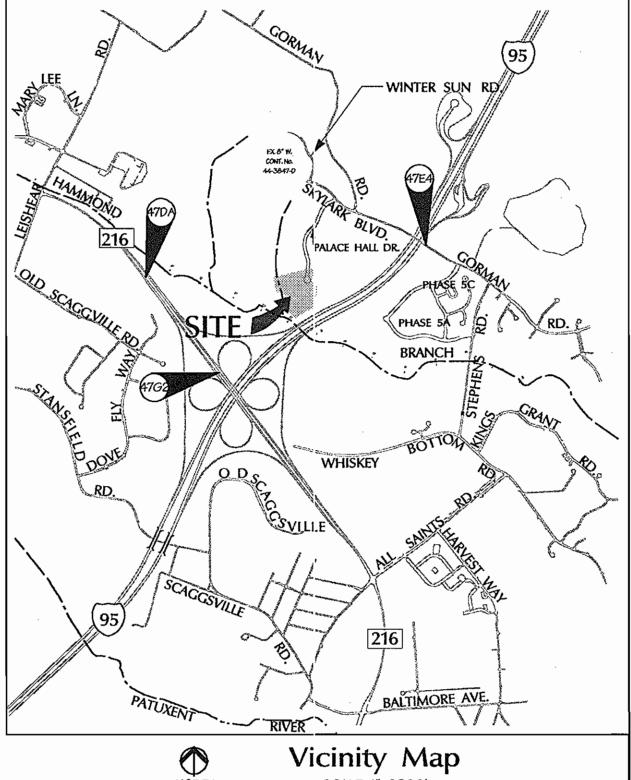
8" Sewer Main Extension Emerson Section 2 - Phase 5B

Howard County, Maryland

Department of Public Works

Contract No. 20-4471-D





SCALE: 1"=2000'

BENCHMARK

DESCRIPTION

COORDINATES IN MARYLAND NAD83(91) (HORIZONTAL) AND NGYD29 (VERTICAL) DATUMS.

47DA NORTHING: 163191.9104 EASTING: 4112865759 ELEVATION: 315905 ft.

47E4 NORTHING: 163326.22:35 EASTING: 413136.2550

ELEYATION: 338.909ft. 47G2 NORTHING: 162440.1212 EASTING: 4118539279

ELEVATION: 364.210ft

DEVELOPER: THE HOWARD RESEARCH & DEVELOPMENT CORPORATION 10275 LITTLE PATUXENT PARKWAY

COLUMBIA, MARYLAND 21044

QUANTITIES						
		AS-BUILT				
ITEMS	QUANTITIES ESTIMATED	QUANTITIES	TYPE		MANUFACTURER SUPPLIER	
8" PVC SEWER	301 LF	301LF	PVC-SDR35	NORTH	AMERICAN	
STD. MANHOLES	3 EA	3EA.	PRECAST CONC	ATLANT	IC CONCRETE	
TYPE B DROP MANHOLE	1 EA	IEA.	PRECASTION	ATLAN7	IC CONCRETE	
MANHOLES- VERT. FT.	73 FT	73 FT.				
NAME OF UTILITY CONTRACTOR: W. F. WILSON AND SONS, INC.						
SURVEY AND DRAFTING DIVISION AS-BUILT DATE: 4-24-2008						

SHEET INDEX SHEET **DESCRIPTION** COYER SHEET PRELIMINARY 8" SANITARY SEWER PLAN PRELIMINARY 8" SANITARY SEWER PROFILE

EX.CURB & GUTTER		PROP. SEWER	6″ S.	
EX. MAJOR CONTOURS	400	PROPERTY LINE		
EX. MINOR CONTOURS EX. STORM DRAIN EX. SEWER EX. WATER	EX. 21" RCP EX. 3" S. EX. 3" W.	ROADWAY RIGHT-OF-WAY PROPOSED LOT LINE PROPOSED EASEMENT PROPOSED CURB & GUTTER		
EXISTING TREE LINE EXISTING WETLAND LIMIT PROP. STORM DRAIN	15" RCCP CL. IV	PROPOSED SIDEWALK PROPOSED GUARD RAIL PROPOSED RIP-RAP		

DATE APRIL 24,2008

REVIEWED FOR NATURAL RESOURCES CONSERVATION SERVICE HIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD COUNTY CONSERVATION DISTRICT

HOWARD COUNTY, MARYLAND

CHIEF - BUREAU OF UTILITIES - DATE

DEPARTMENT OF PLANNING & ZONING HOWARD COUNTY, MARYLAND

Daft·McCune·Walker, Inc.

Towson, Maryland 21286

Fax 296-4705

SEDIMENT CONTROL MEASURES WILL

BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE SPECIFICATIONS AND WITH ROAD CONSTRUCTION PLANS F-04-127.

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8" SEWER					MDT
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600 SCALE MAP NO. 47 BLOCK NO.7,8,9,13	DATE	REVISION	NO.	BY	7/19/07

EMERSON SECTION 3, AREA4, PARCELS A-1 AND A-2

CONTRACT NO. 20-4471-D

Thu Jul 18:\95663\25064D6\25B Sewer Extension\950525E

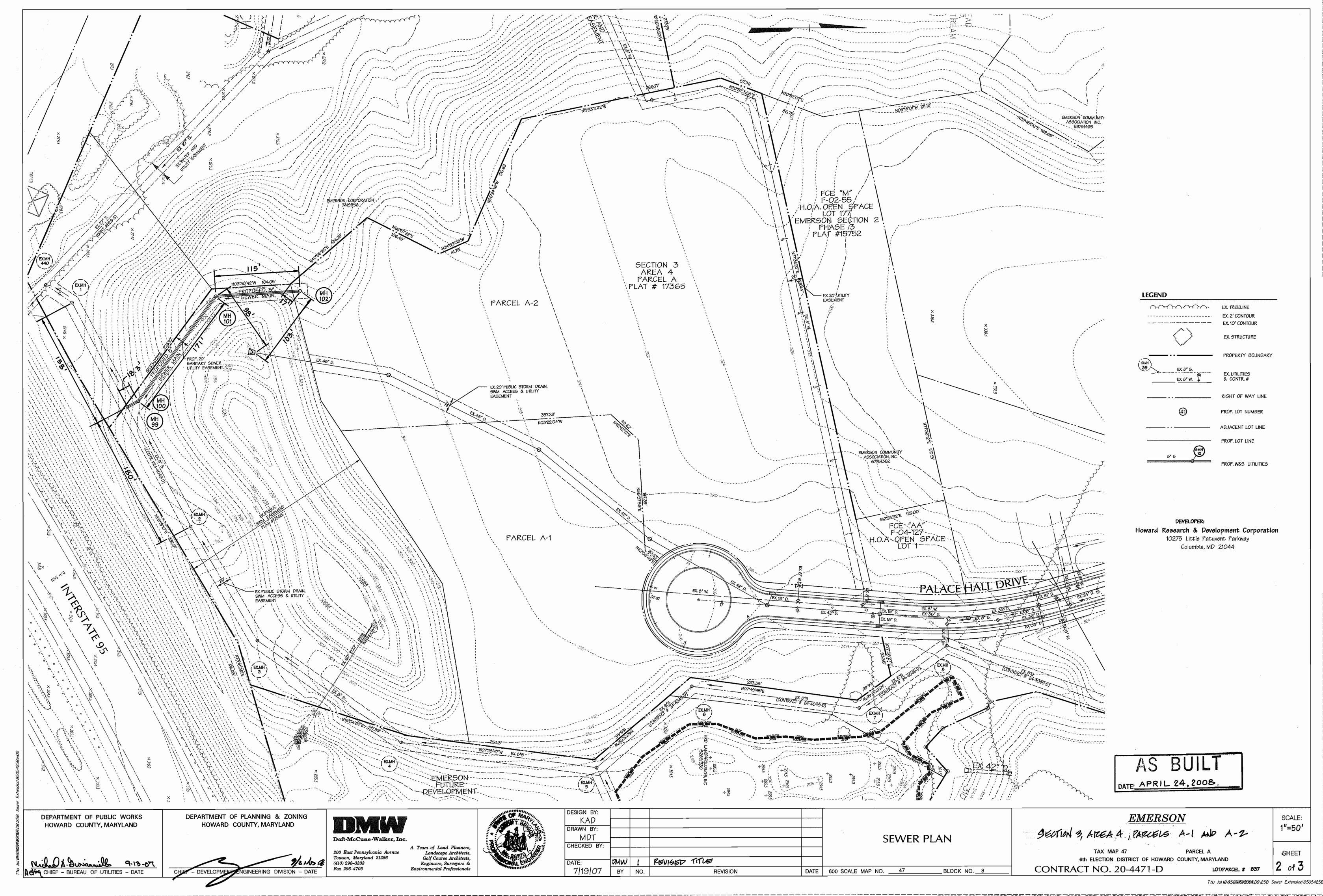
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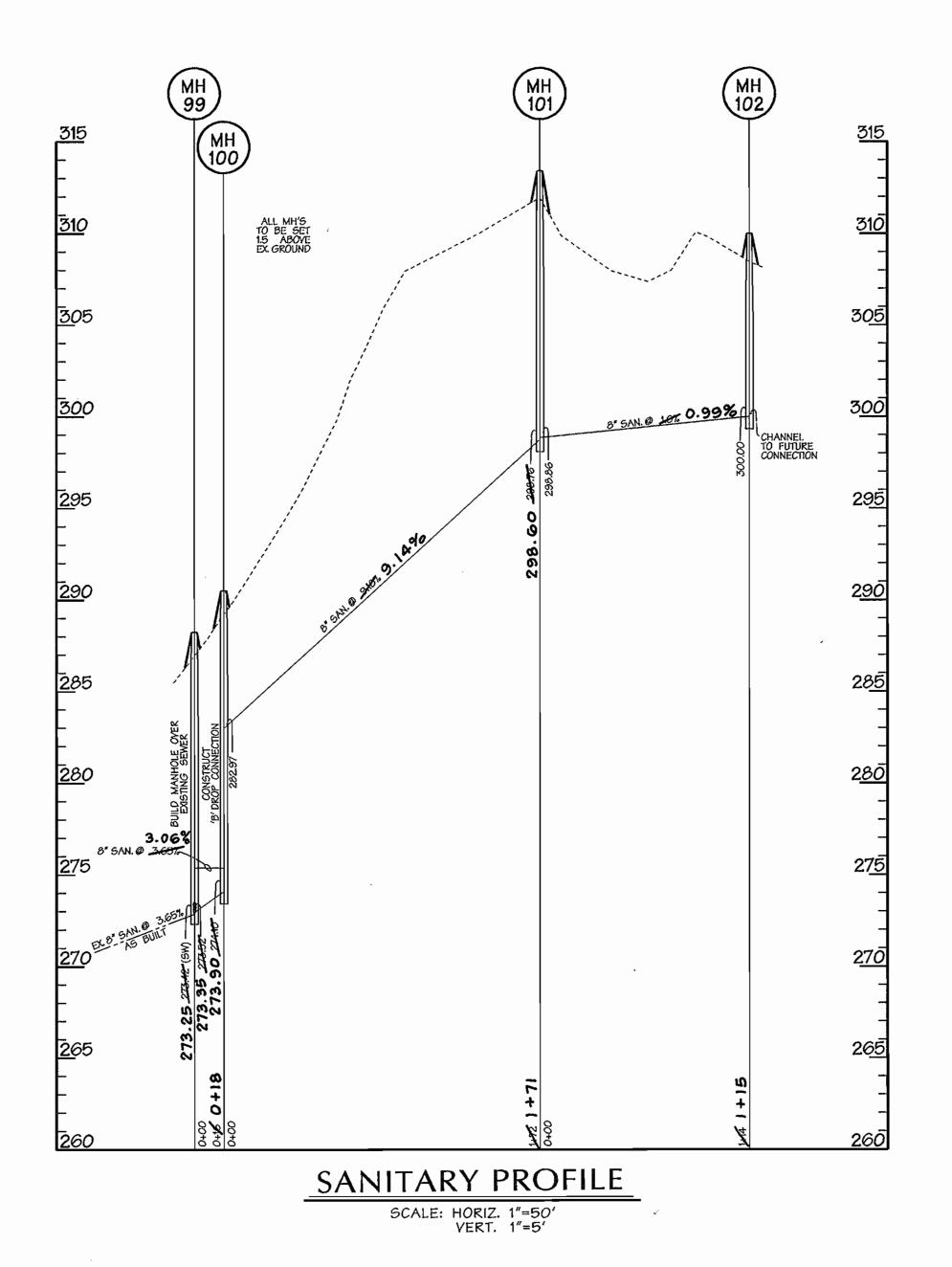
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SHEET

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Landscape Architects, Golf Course Architects, Engineers, Surveyors & Environmental Professionals





DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING & ZONING HOWARD COUNTY, MARYLAND



	DESIGN BY:					
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SANITARY SEWER PROFILE

EMERSON SECTION 3, AREA 4, PARCELS A-1 AND A-2

SCALE: 1"=50'

6th ELECTION DISTRICT OF HOWARD COUNTY, MARYLAND CONTRACT NO. 20-4471-D

SHEET

_BLOCK NO. __8