

PUBLIC WATER & SEWER EXTENSION

ILCHESTER WOODS

1st ELECTION DISTRICT

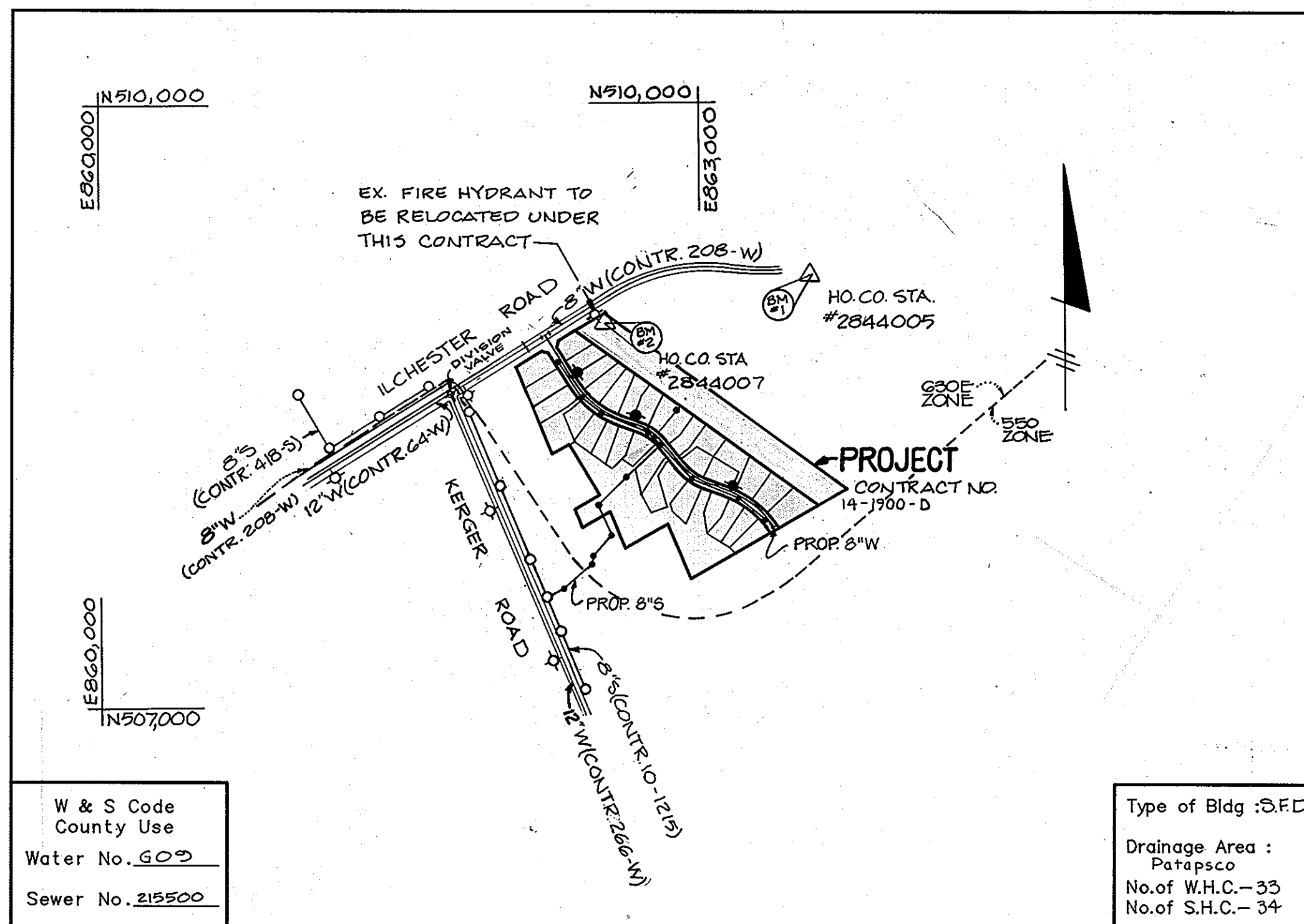
HOWARD COUNTY, MARYLAND

CONTRACT NO. 14-1900-D

BENCH MARKS

B.M.#1 - HO. CO. MONUMENT #2844005 ELEV. 483.51
 N 509,160.764 E 863,742.774
 B.M.#2 - HO. CO. MONUMENT #2844007 ELEV. 470.79
 N 508,941.729 E 862,452.126

Item	Quantities		Material/Supplier
	Estimated	As Built	
8" WATER	1506 L.F.		
6" WATER	40 L.F.		
8" x 8" T.S. & V.	1 EA.		
8" VALVES	1 EA.		
8" CAP & BUTTRESS	1 EA.		
FIRE HYDRANTS	4 EA.		
1" W.H.C.	203 L.F.		
3/4" W.H.C.	461 L.F.		
8" SEWER	1547 L.F.		
8" D.I.P. SEWER	791 L.F.		
4" STANDPIPE	10 L.F.		
4" S.H.C.	844 L.F.		
MANHOLES	188 V.F.		
4" S.H.C. D.I.P.	720 L.F.		
12" D.I.P. SEWER	321 L.F.		



W & S Code
 County Use
 Water No. 603
 Sewer No. 215500

Type of Bldg: S.F.D.
 Drainage Area:
 Patapsco
 No. of W.H.C. - 33
 No. of S.H.C. - 34

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. data.
- All pipe elevations shown are \ominus invert elevations.
- Clear all utilities by a minimum of 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 (as amended January, 1985). 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 \boxplus 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 personal satisfaction. Any damage to existing facilities due to the contractor's negligence shall be repaired at the contractor's expense.
- The 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 and Electric Co. - Contractor Services	850-4820
Baltimore Gas and Electric Co. - Underground Damage Control	859-9004
Baltimore Gas and Electric Co. - Trouble Shooting	298-3001
Miss Utility	1-559-0100
Colonial Pipeline Co.	795-1390
Bureau of Utilities, Ho. Co. Department of Public Works	982-3366
C & P Telephone Co.	1-800-257-7777
- 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.
- 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 construction of the 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 elevation shown on the drawings. All fire hydrants shall be strapped and buttressed with concrete in accordance with the Standard Details. Soil around the fire hydrant shall be compacted in accordance with Section 1003 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 the plans or in the Specifications.
- All service clamps are to have stainless straps.
- All D.I.P. fittings shall be in accordance with A.W.W.A. specifications C-153 Ductile Iron Compact Fittings, 3" through 12" for water and other liquids.
- All sewer mains shall be C.S.P.X., R.C.S.P., V.C.P.X., OR P.V.C. 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 18" walls are for brick manholes only.
- Manholes designated W.T. in plan and profile shall have watertight frame and covers, Standard Detail 65.52. 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 the cellar cannot be served.

Sediment control measures for this contract will be implemented in accordance with Section 219 of the Specifications and as shown on F-20-83

Reviewed for Howard Soil Conservation District and meets technical requirements.

U.S. 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 8/27/90

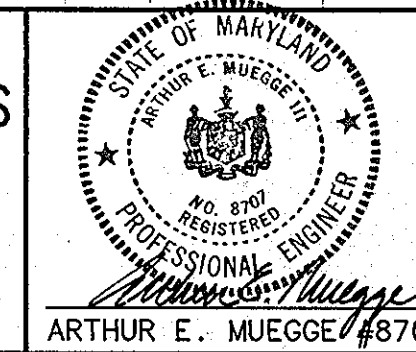
DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND

James J. ... 8/29/90
 DIRECTOR OF PUBLIC WORKS DATE

Robert M. ... 8-27-90
 CHIEF, BUREAU OF UTILITIES DATE

Chief, Bureau of Engineering DATE
 Chief, Land Development DATE

RIEMER MUEGGE & ASSOCIATES
 3105 NORTH RIDGE ROAD
 ELLICOTT CITY, MARYLAND
 (301) 461-2690



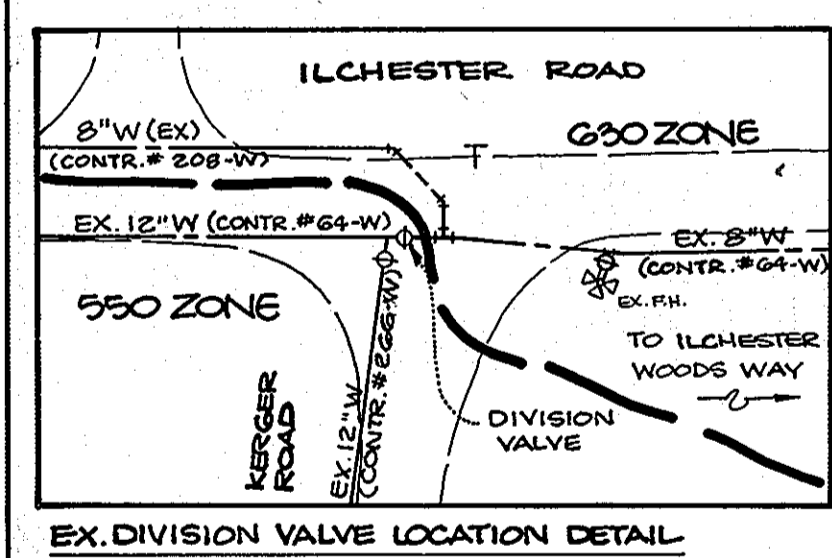
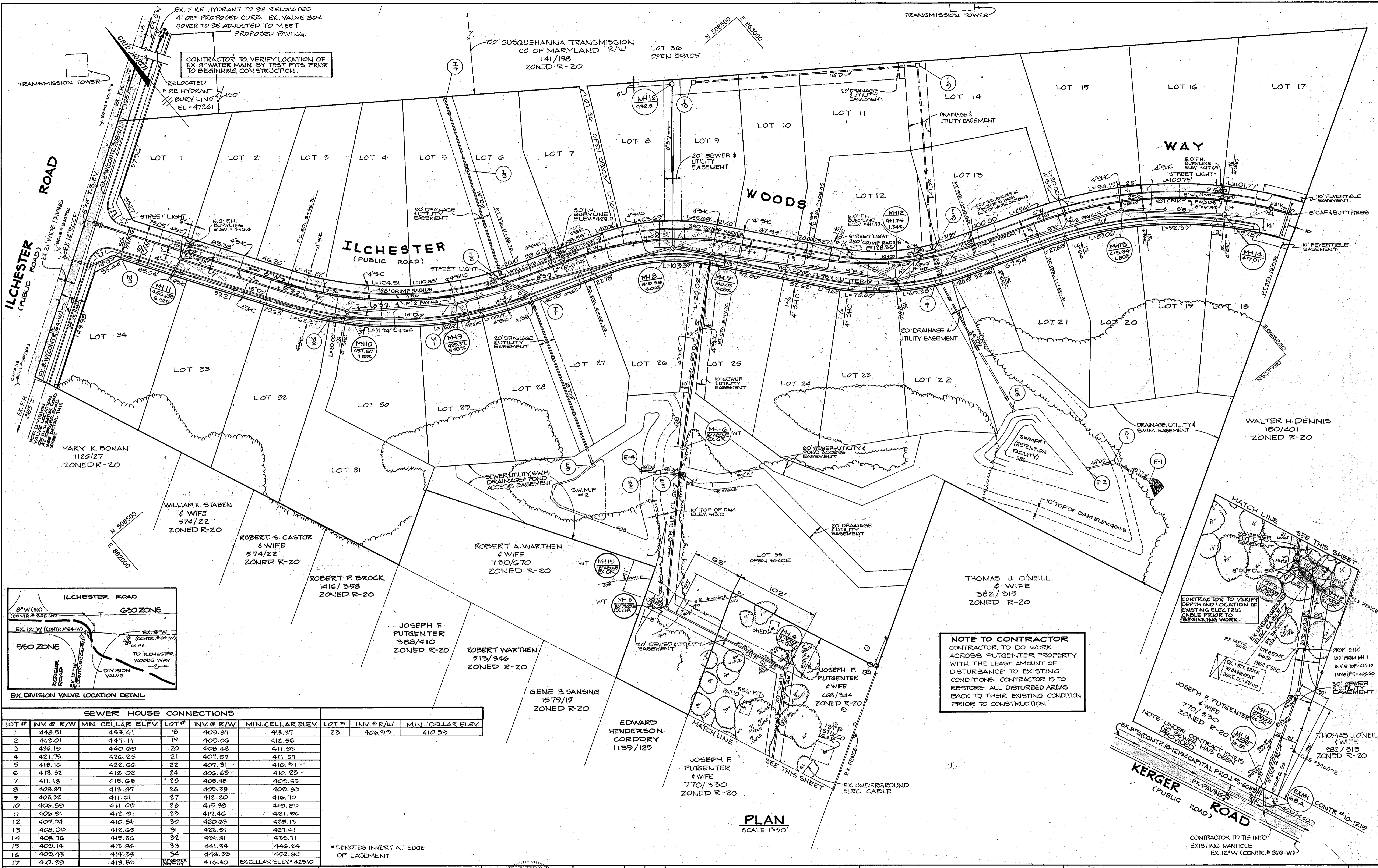
DES: J.L.B.			
DRN: CAD, M.G.Y.			
CHK: J.J.B.			
DATE: 10-4-89			
BY NO.		REVISION	DATE
		1 REVISED QUANTITIES BOX	6-10-90
		2 REVISED QUANTITIES BOX AND VICINITY MAP	9-24-90
		1 REVISED QUANTITIES BOX	6-11-91

TITLE SHEET

600' SCALE MAP NO. 31 BLOCK NO. 1516

ILCHESTER WOODS
 1st ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND
 CONTRACT NO. 14-1900-D

SCALE AS SHOWN
 SHEET 1 OF 3



SEWER HOUSE CONNECTIONS					
LOT #	INV. @ R/W	MIN. CELLAR ELEV.	LOT #	INV. @ R/W	MIN. CELLAR ELEV.
1	448.51	453.41	18	409.87	413.37
2	442.21	447.11	19	409.06	412.56
3	436.10	440.09	20	408.43	411.93
4	421.75	426.25	21	407.97	411.57
5	418.16	422.66	22	407.31	410.91
6	413.52	418.02	24	406.63	410.23
7	411.18	415.68	25	405.45	409.55
8	408.87	413.47	26	405.39	409.89
9	408.32	411.01	27	412.20	416.70
10	406.59	411.09	28	415.39	419.89
11	406.91	412.01	29	417.46	421.96
12	407.04	410.54	30	420.03	423.13
13	408.09	412.69	31	422.91	427.41
14	408.76	415.56	32	424.81	430.71
15	409.14	413.84	33	441.34	446.24
16	409.43	414.33	34	448.39	452.89
17	410.29	413.89			

NOTE TO CONTRACTOR
 CONTRACTOR TO DO WORK ACROSS PUTGENTER PROPERTY WITH THE LEAST AMOUNT OF DISTURBANCE TO EXISTING CONDITIONS. CONTRACTOR IS TO RESTORE ALL DISTURBED AREAS BACK TO THEIR EXISTING CONDITION PRIOR TO CONSTRUCTION.

CONTRACTOR TO VERIFY DEPTH AND LOCATION OF EXISTING ELECTRIC CABLE PRIOR TO BEGINNING WORK.

NOTE: UNDER CONTRACT NO. 10-1215 NO SEWER HAS BEEN PROVIDED.

PLAN SCALE 1"=50'

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND
 Director of Public Works
 Chief, Bureau of Engineering
 Chief, Bureau of Utilities
 Chief, Land Development

RIEMER MUEGGE & ASSOCIATES
 3105 NORTH RIDGE ROAD
 ELLICOTT CITY, MARYLAND
 (301) 461-2690



DES: J.L.B.	MRD: 3	ADDED MH 1A & REVISED SEWER LINE	6-10-72
DRN: CAD, MGY	CHK: J.J.D.	ADDED OPEN SPACE LOT 36 AND ACCESS BETWEEN LOTS 1 AND 8, REVISED LOTS 22, 23, 24 & 34 TO ADD A BUILDABLE LOT, REVISED WHC AND DHC FOR ADDED LOT, REVISED LOT LINES FOR LOTS 11 THRU 14, SHOWED RELOCATION OF EX. FIRE HYDRANT ALONG ILCHESTER ROAD, REVISED LOT NUMBERS	9-24-71
DATE: 10-4-89	BY: NO.	REVISED 4" S.C. TO 4" DIP S.C. IN CONC. ENCASUREMENT	6-11-01

PLAN OF A WATER MAIN & A SEWER MAIN
 600' SCALE MAP NO. 31 BLOCK NO. 1416

ILCHESTER WOODS
 1st ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND
 CONTRACT NO. 14-1900-D
 SCALE AS SHOWN
 SHEET 2 OF 3
 AS-BUILT

