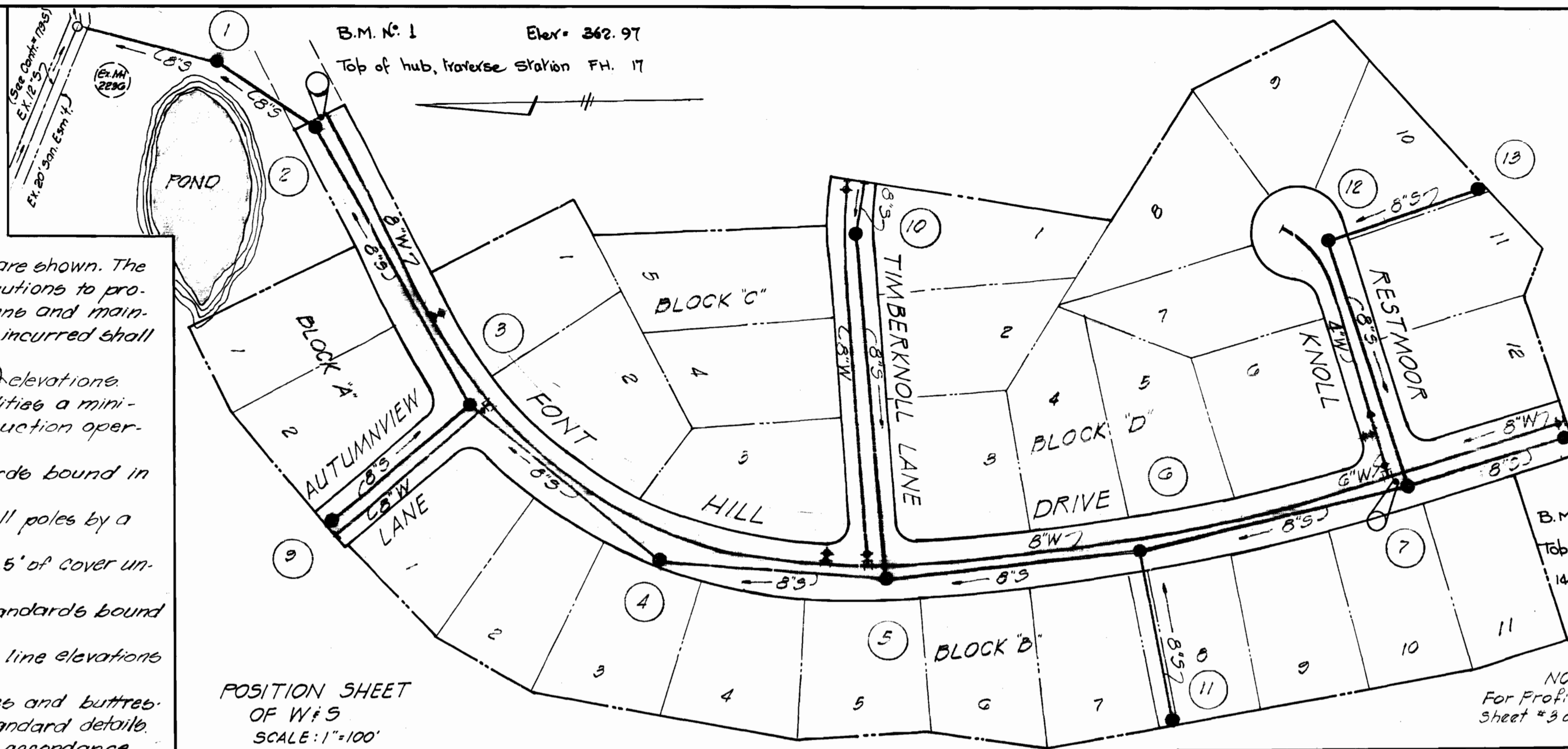


**GENERAL NOTES**

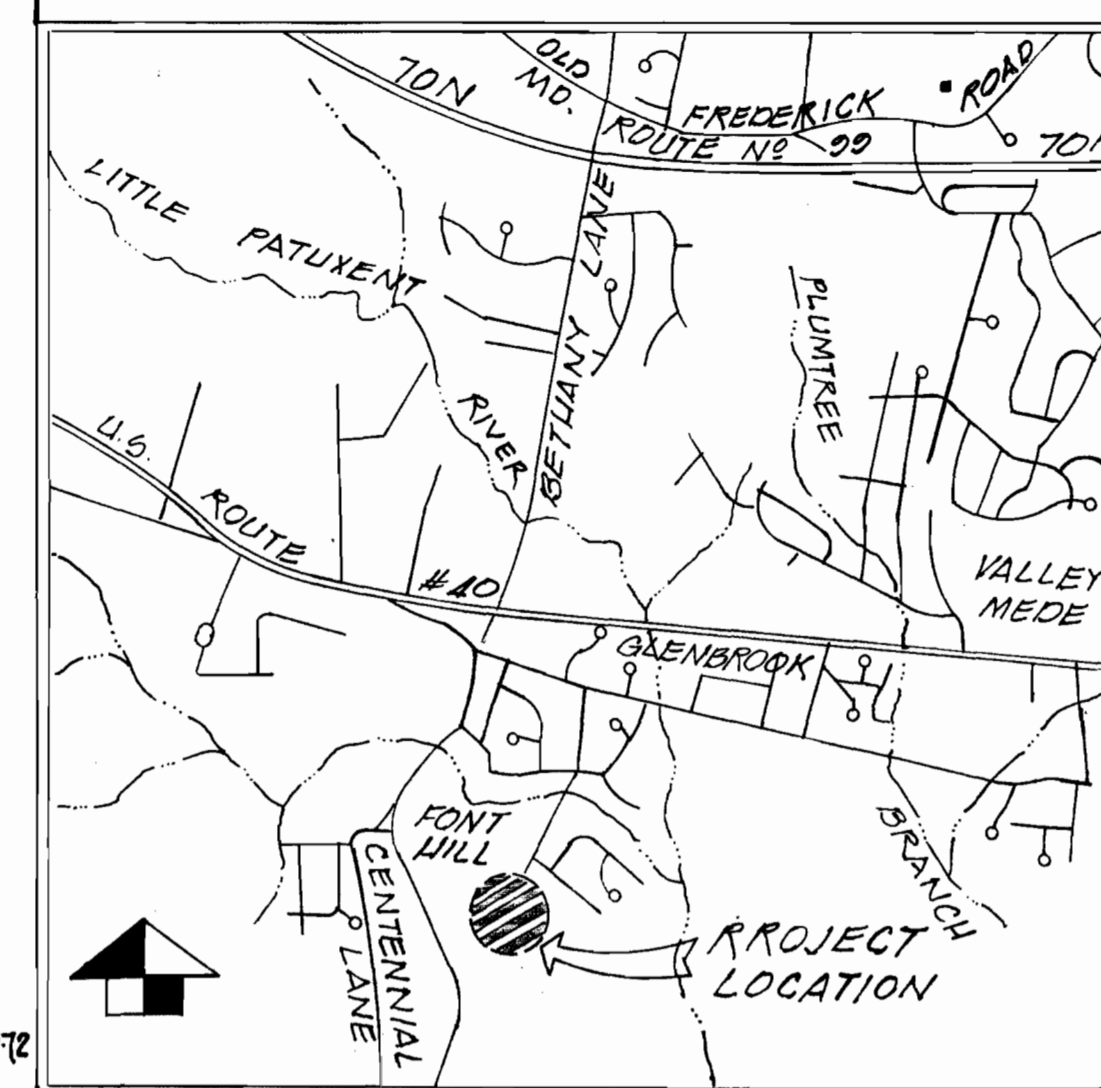
1. Approximate location of existing mains are shown. The Contractor shall take all necessary precautions to protect existing mains and service connections and maintain uninterrupted supply. Any damage incurred shall be repaired immediately.
2. All pipe elevations shown are invert elevations.
3. The Contractor shall locate existing utilities a minimum of two weeks in advance of construction operations in vicinity of utilities.
4. For all standard details see standards bound in specifications.
5. Clear all utilities by a minimum of 6", all poles by a minimum 2'-0" or tunnel as required.
6. All water mains to have a minimum 3.5' of cover unless otherwise noted.
7. Block all fittings with concrete, see standards bound in specifications.
8. Fire hydrants shall be set at the bury line elevations shown on drawing.
9. Fire hydrants shall be strapped to tees and buttressed with concrete in accordance with standard details.
10. All valves shall be strapped to tees in accordance with standard details.
11. Costs of strapping fire hydrants and valves to tees shall be included in the unit price bid for furnishing and laying of water mains.
12. The Contractor provide a joint in all sewer mains within 2'-0" of exterior manhole walls.
13. Sewer manholes shall be 4'-0" inside except where otherwise noted.
14. The Contractor shall notify The Balto. Gas & Electric Co. 72 hours in advance of excavation by calling 530-8000, Ext. 60.
15. The Contractor shall notify the C. & P. Telephone prior to any construction in vicinity of any Telephone Co. facilities by calling collect 682-0400 in Balto., Md.
16. All water mains to be C.I.P., D.I.P., or A.C.P.K. unless otherwise noted.
17. All sewer mains to be V.C.P.K., A.C.P. Class 2400, or C.S.P. unless otherwise noted.
18. Coordinates shown are based on Maryland State Datum.
19. All water & sewer house connections shall be laid in the same trench whenever possible.
20. All existing trees are to be protected against damage to the maximum extent reasonable.
21. The contractor will not disturb existing sewerage flow when connecting prop. sewer into an Ex. manhole.
22. All water house connections shall be 3/4" seamless copper tubing type K soft tempered in accordance with Federal Spec. W.W.T.-799-A.



POSITION SHEET OF W15  
SCALE: 1"=100'

B.M. No. 2 Elev. 399.72  
Top of Hub at Sta. 14+18.8' Font Hill Drive.

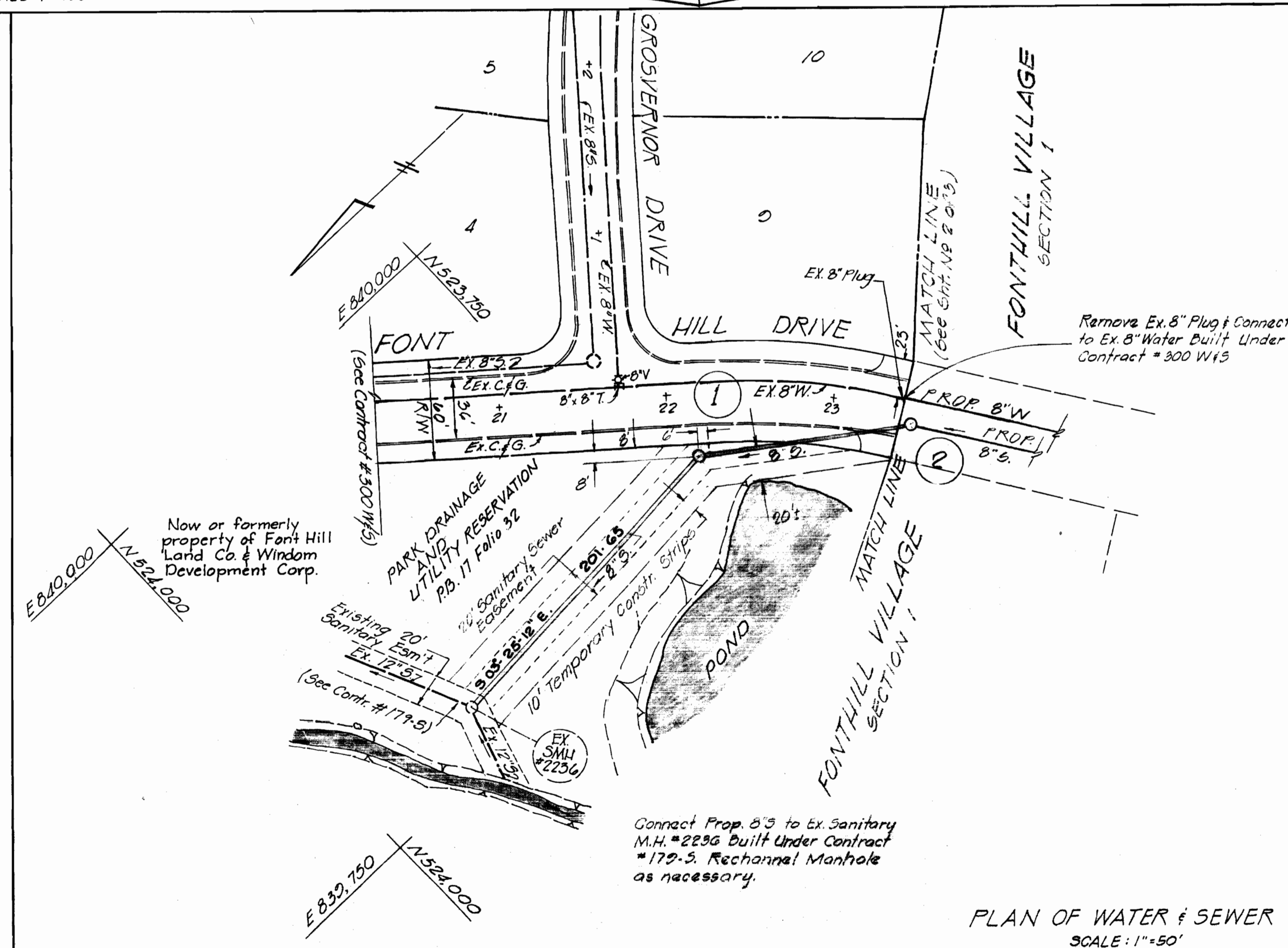
NOTE  
For Profiles of W15 See Sheet #3 of 3.



VICINITY MAP  
SCALE: 1"=1/2 Mile

LOWEST BASEMENT ELEV. EACH LOT					
LOT NO.	BLOCK NO.	LOW ELEV.	LOT NO.	BLOCK NO.	LOW ELEV.
1	A	356.9	3	C	367.8
2	A	357.8	4	C	372.3
1	B	362.5	5	C	381.6
2	B	362.1	1	D	381.8
3	B	365.0	2	D	379.4
4	B	367.7	3	D	374.3
5	B	370.7	4	D	379.7
6	B	374.7	5	D	387.8
7	B	378.5	6	D	386.9
8	B	382.4	7	D	373.5
9	B	384.3	8	D	376.0
10	B	379.1	9	D	376.1
11	B	378.7	10	D	378.6
1	C	357.9	11	D	393.1
2	C	361.6	12	D	393.3

QUANTITIES	
ITEM	AMOUNT
8" WATER	2248 L.F.
6" WATER	99 L.F.
4" WATER	271 L.F.
8" SEWER	3223 L.F.
F.H.'S	8 EA.



PLAN OF WATER & SEWER  
SCALE: 1"=50'



Francis D. Light  
FRANCIS D. LIGHT M. REG. #2017  
Richard P. Bruwne Associates  
Columbia, Md. 21043  
1-22-73  
DATE

RICHARD P. BRUWNE ASSOCIATES  
CONSULTING ENGINEERS - PLANNERS  
COLUMBIA, MARYLAND

HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
1-22-73  
Date  
W. O. Fulbert  
Chief Engineer

CONTRACT NO. 499-D W&S

PLAN OF  
WATER & SEWER MAINS

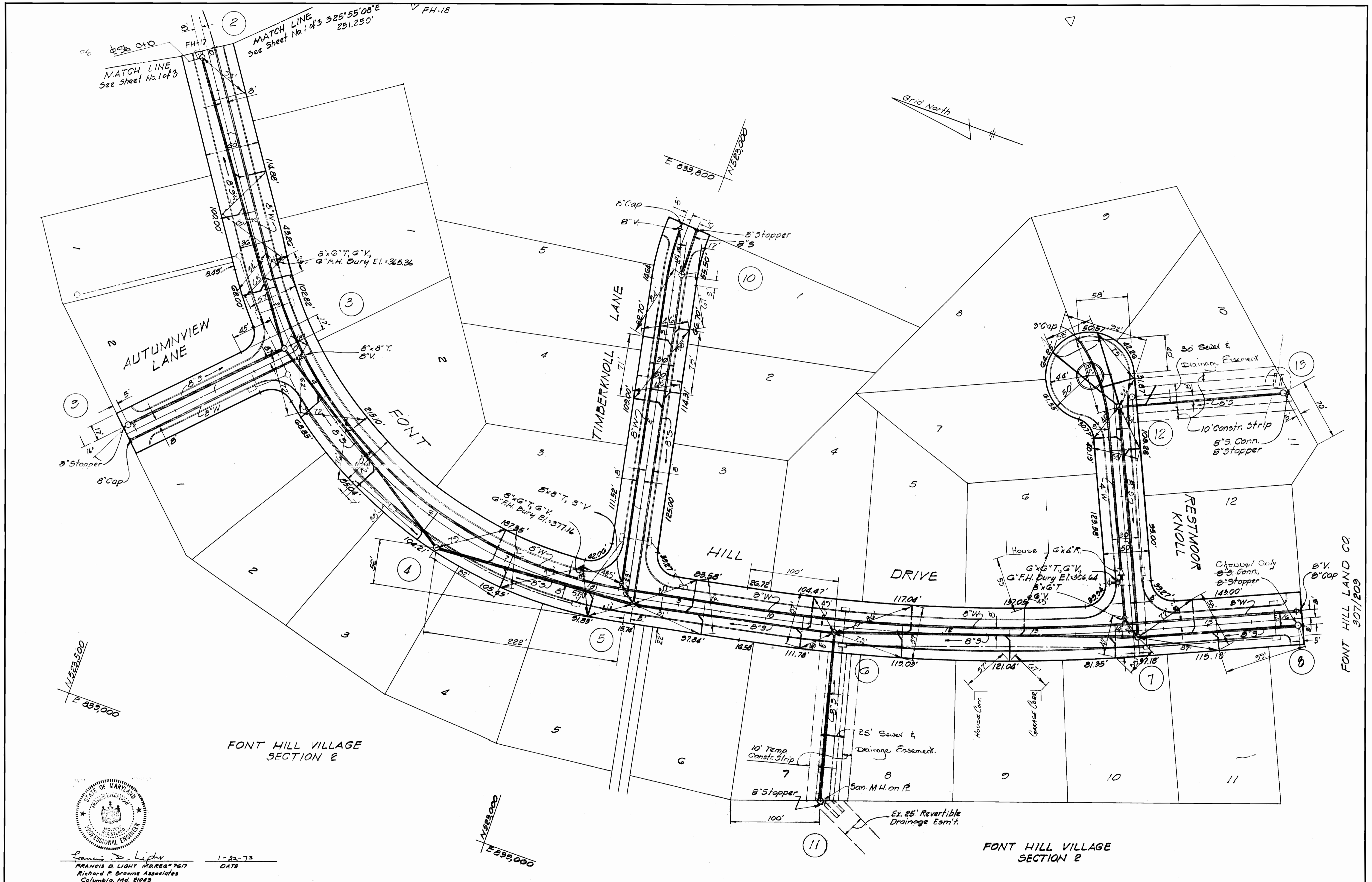
FONT HILL VILLAGE  
SECTION NO. 1  
2 ND. ELECTION DIST. HOWARD CO. MD.

DRAWING  
NO. 1  
OF 3

SCALE  
AS SHOWN

DES. W.F.N.  
CHK. J.W.N.  
CHK. J.E.P.





Francis D. Light  
 FRANCIS D. LIGHT MARB# 7617  
 Richard F. Browne Associates  
 Columbia, Md. 21045

1-22-73  
 DATE

RICHARD F. BROWNE ASSOCIATES  
 CONSULTING ENGINEERS, PLANNERS  
 COLUMBIA, MARYLAND

HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
 1-22-73 Date  
 W. O. Fallick Chief Engineer

CONTRACT NO. 499-D W&S

PLAN OF  
 WATER & SEWER MAINS

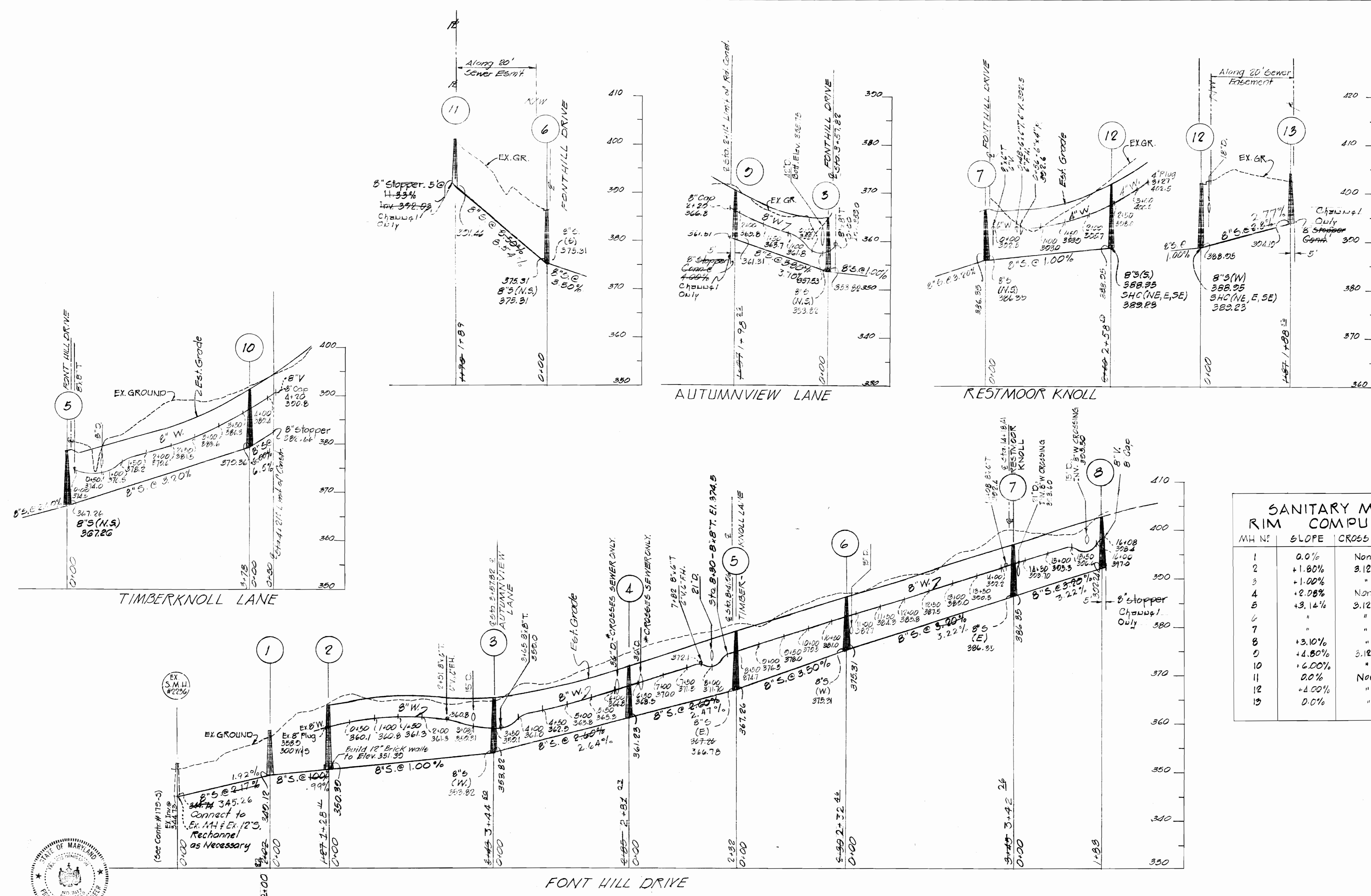
FONT HILL VILLAGE  
 SECTION NO. 1  
 2 ND. ELECTION DIST. HOWARD CO. MD.

DRAWING  
 NO. 2  
 OF 3

SCALE  
 1" = 50'

DES. W.H.N.  
 DRN. G.W.J.  
 CHR. J.E.C.

WS 499 W&S/2



SANITARY MANHOLE RIM COMPUTATIONS			
MH NO.	SLOPE	CROSS SLOPE	RIM ELEV.
1	0.0%	None	358.50
2	+1.80%	3.125%	363.30
3	+1.00%	"	364.20
4	+2.08%	None	372.22
5	+3.14%	3.125%	378.70
6	"	"	385.83
7	"	"	396.51
8	+3.10%	"	402.15
9	+4.80%	3.125%	370.33
10	+6.00%	"	300.05
11	0.0%	None	401.00
12	+4.00%	"	400.73
13	0.0%	"	408.00



Francis D. Light  
 FRANCIS D. LIGHT MD REG #7017  
 Richard F. Browne Associates  
 Columbia, Md. 21043  
 DATE 1-22-73

RICHARD F. BROWNE ASSOCIATES  
 CONSULTING ENGINEERS - PLANNERS  
 COLUMBIA, MARYLAND

HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
 1-22-73  
 Date  
 W O Fabert  
 Chief Engineer

CONTRACT NO. 499-D W&S

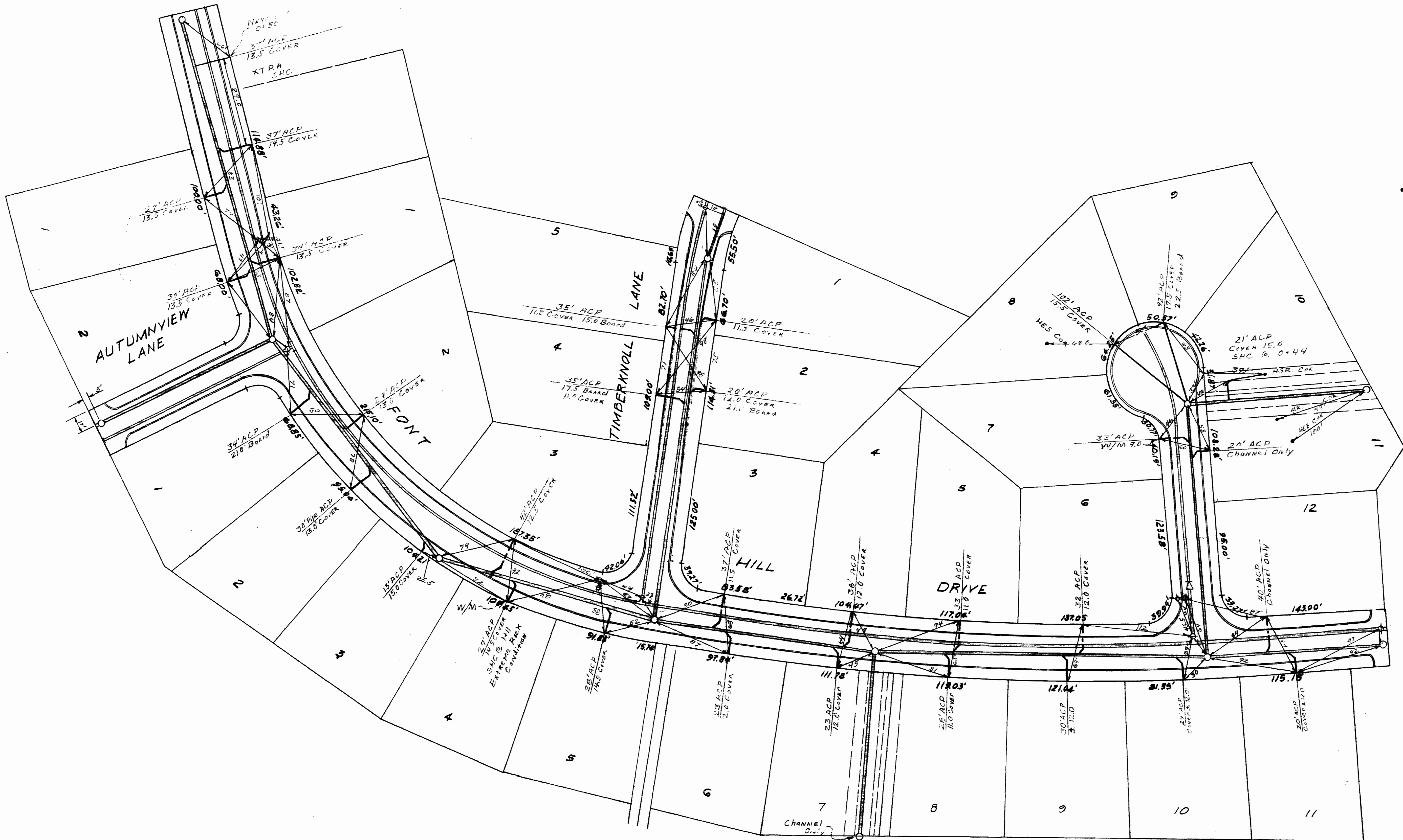
PROFILE OF  
 WATER & SEWER MAINS

FONT HILL VILLAGE  
 SECTION NO. 1  
 2 ND ELECTION DIST. HOWARD CO. MD.

DRAWING NO. 3 OF 3  
 SCALE HOR. 1"=100' VERT. 1"=10'  
 DES. W.H.N. DRN. W.H.N. CHK. J.C.F.

WS 499 W&S/3





As Built As of 1-23-73  
SEWER TRIANGULATIONS

DR BY: J.H.LARRICK

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND

CONTRACT NO. 499-D-WIS

DRAWING NO. 3A	SCALE
OF 3	

DATE CHIEF-BUREAU OF WATER AND SEWER

WS 499 WIS/3A