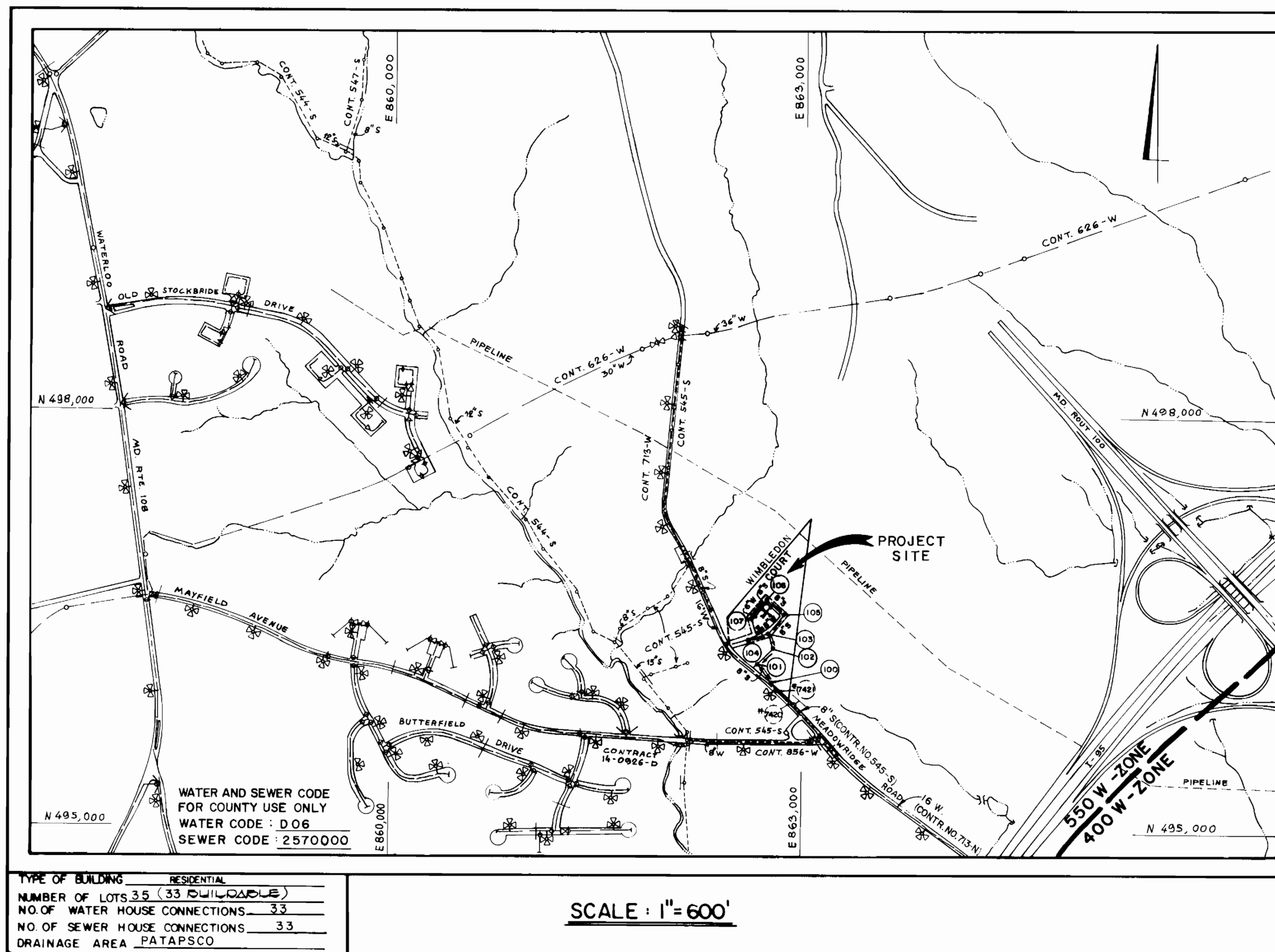


QUANTITIES				
ITEM	ESTIMATED	AS BUILT	SUPPLIER	
8" SEWER	1270	1235.52 LF	J.M. Manufacturing Corp.	
6" SEWER	385 LF	303.24 LF	J.M. Manufacturing Corp.	
MANHOLES	8 EACH	8 EACH	Atlantic Concrete Pro Inc.	
8" WATER	600	585.5 LF	Griffin Pipe Products Co.	
6" WATER	368 LF	359.0 LF	U.S. Pipe & Foundry	
16"x8" TAPPING SLEEVE & 8" VALVE	1 EACH	1 EACH	U.S. Pipe & Foundry	
8"x6" F.H. TEE & 6" VALVE	2 EACH	2 EACH	Griffin Pipe Products (Tees) (Valve) U.S. Pipe	
8" VALVE	3 EACH	3 EACH	U.S. Pipe & Foundry	
6" VALVE (EXCL. F.H.'S)	1 EACH	1 EACH	U.S. Pipe & Foundry	
1" WATER	342 LF	350.5 LF	Howell Metals	
3/4" WATER	389 LF	378.5 LF	U.S. Pipe & Foundry	
FIRE HYDRANT	2 EACH	2 EACH	U.S. Pipe & Foundry	

MANHOLE TABULATION				
NO.	Q ROAD STATION	DISTANCE	RIM	SLOPE
101	2+30 MEADOWRIDGE RD.	37' LEFT	293.40	0%
102			290.50	0.00%
103			300.50	0.00%
104	1+22.50 WIMBLEDON CT.	29' RIGHT	301.14	-1.40%
105			303.25	0.00%
106			304.20	0.00%
107	6+43.00 WIMBLEDON CT.	29' RIGHT	302.59	0.00%
100	4+54.00 MEADOWRIDGE RD.		278.92	4.50%

S. H. C. INVERT @ R		
STATION	LOT NO.	ELEVATION @ R
MH#103 TO MH#104		
0+38 LEFT	7 & 8	289.07
0+78 LEFT	5 & 6	290.41
1+18 LEFT	3 & 4	291.75
0+104 LEFT	1 & 2	292.80
MH#103 TO MH#105		
0+11 RIGHT	9	287.91
0+41 RIGHT	10 & 11	288.21
0+81 RIGHT	12 & 13	288.61
1+21 RIGHT	14 & 15	289.01
MH#105 TO MH#106		
0+16 RIGHT	16 & 17	289.63
0+56 RIGHT	18 & 19	290.03
0+96 RIGHT	20 & 21	290.43
1+36 RIGHT	22 & 23	290.83
MH#106 TO MH#107		
0+11 RIGHT	24	291.15
0+41 RIGHT	25 & 26	291.45
0+81 RIGHT	27 & 28	291.85
1+26 RIGHT	29	292.30
1+59 RIGHT	30 & 31	292.63
0+107 RIGHT	32 & 33	293.19



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 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. 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 [Symbol] 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 SATISFACTION. ANY DAMAGE TO EXISTING FACILITIES DUE TO THE CONTRACTOR'S NEGLIGENCE SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
- 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 & ELECTRIC CO. - CONTRACTOR SERVICES: 850-4620
 - BALTIMORE GAS & ELECTRIC CO. - UNDERGROUND DAMAGE CONTROL: 859-9004
 - BALTIMORE GAS & ELECTRIC CO. TROUBLE SHOOTING: 298-9001
 - MISS UTILITY: 1-559-0100
 - COLONIAL PIPELINE COMPANY: 795-1390
 - BUREAU OF UTILITIES, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS: 992-2366
 - 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.
- 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 ELEVATIONS SHOWN ON THE DRAWINGS. ALL FIRE HYDRANTS SHALL BE STRAPPED AND BUTTRESSED WITH CONCRETE IN ACCORDANCE WITH STANDARD DETAILS. SOIL AROUND THE FIRE HYDRANT SHALL BE COMPACTED IN ACCORDANCE WITH SECTION 1003 AND 1008 OF THE STANDARD SPECIFICATIONS.
- THE CONTRACTOR SHALL NOT OPERATE ANY WATER MAIN VALVES ON THE EXISTING WATER SYSTEM.
- FOR ALL COPPER WATER HOUSE CONNECTIONS, UTILIZE FLARED TYPED FITTINGS ONLY.
- ALL WATER HOUSE CONNECTIONS SHALL BE FOR INSIDE METER SETTING, UNLESS OTHERWISE NOTED ON THE PLANS OR IN THE SPECIFICATIONS. (STD. DETAIL W.3.21).
- WATER MAINS AND WATER HOUSE CONNECTION LINES MUST BE PLACED SO AS TO HAVE AT LEAST ONE (1) FOOT SEPARATION FROM THE SEWER MAIN OR SEWER HOUSE CONNECTION AS THEY PASS ABOUT IT.
- MANHOLES DESIGNATED W.T. IN PLAN AND PROFILE SHALL HAVE WATER-TIGHT FRAME AND COVERS STANDARD DETAIL GS.52 WHERE WATER-TIGHT MANHOLE FRAME AND COVER IS USED, SET TOP OF FRAME 1'-6" ABOVE FINISHED GRADE UNLESS OTHERWISE NOTED ON THE DRAWINGS.
- ALL SEWER MAINS SHALL BE C.S.P.X., R.C.S.P., V.C.P.X., A.C.P. CLASS 2400 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.
- MANHOLES SHOWN WITH 12" AND 16" WALLS ARE FOR BRICK MANHOLES ONLY.
- MANHOLES LOCATED WITHIN PROPOSED ROADWAY SHALL HAVE STANDARD HEAVY TRAFFIC MANHOLE FRAME AND COVER, STANDARD DETAIL GS.51.

CONTRACT NO. 14-1582-D
WIMBLEDON
WATER AND SEWER MAIN EXTENSIONS
HOWARD COUNTY, MARYLAND
DEPARTMENT OF PUBLIC WORKS

SEDIMENT CONTROL MEASURES FOR THIS CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE HOWARD COUNTY DESIGN MANUAL AND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL IN DEVELOPING AREAS AND ALSO AS SHOWN ON THE GRADING AND SEDIMENT CONTROL PLAN 187-46

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

James M. Nelson 3-2-87
 SOIL CONSERVATION SERVICE DATE

THIS DEVELOPMENT PLAN IS APPROVED FOR EROSION AND SEDIMENT CONTROL BY HOWARD SOIL CONSERVATION DISTRICT.

APPROVED:

Howard Soil Conservation District DATE

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND <i>John F. Nummy</i> 2-5-87 DIRECTOR OF PUBLIC WORKS DATE <i>Robert J. Berman</i> 2-3-87 CHIEF, BUREAU OF UTILITIES DATE	FISHER, COLLINS, AND CARTER, INC. CONSULTING ENGINEERS AND LAND SURVEYORS 8388 COURT AVENUE ELLKOTT CITY, MARYLAND 21043 <i>Terrell A. Fisher</i> TERRELL A. FISHER	P.S. D.E.V. U.N. A.S. M.A. T.A.F. DATE: 9/22/86	TITLE SHEET 600' SCALE MAP NO. 37 BLOCK NO. 15	WIMBLEDON CONTRACT NO. 14-1582-D FIRST ELECTION DISTRICT HOWARD COUNTY, MARYLAND	SCALE AS SHOWN SHEET 3 OF 2
--	--	--	---	---	--------------------------------

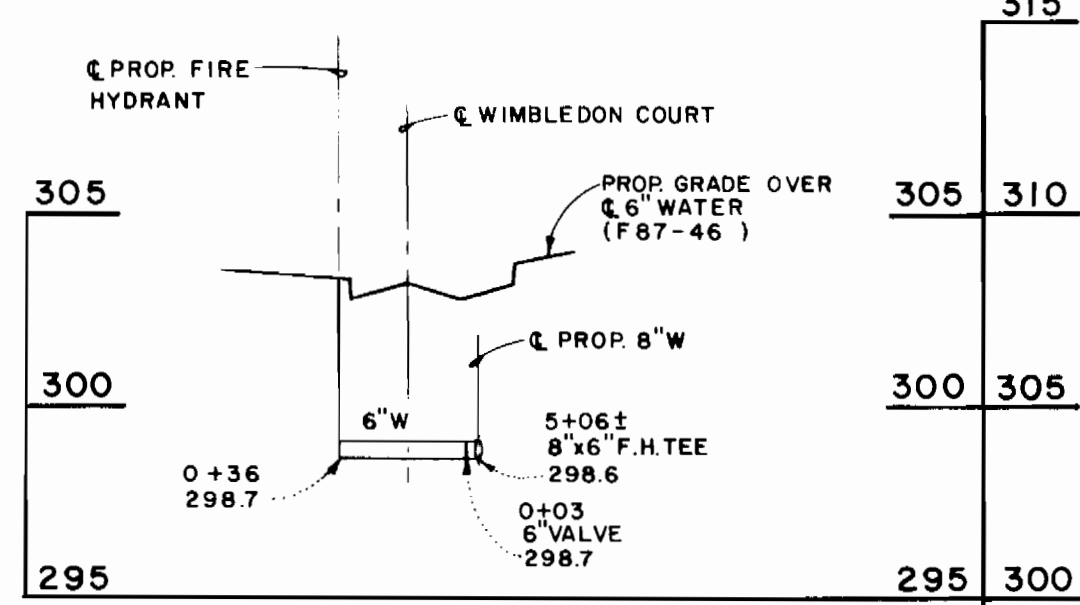
BM.#1 ELEV. = 279.97

X-CUT ON ROAD SIDE BONNET BOLT OF FIRE HYDRANT.

BM.#2 ELEV. = 303.53

R.R. SPIKE IN C & P. POLE #48; OPPOSITE PROPOSED C/O WIMBLETON COURT.

WIMBLETON COURT



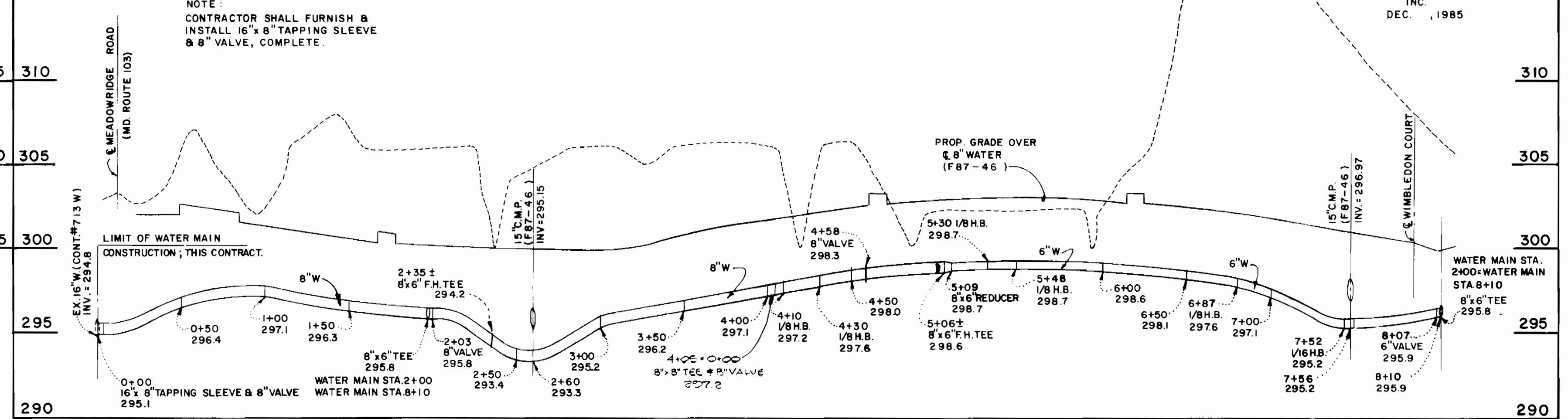
PROFILE OF FIRE HYDRANT

OPPOSITE C/O ROAD STA. 4 + 67

Possible Future S/S (By Others)

Possible Future C/W (By Others)

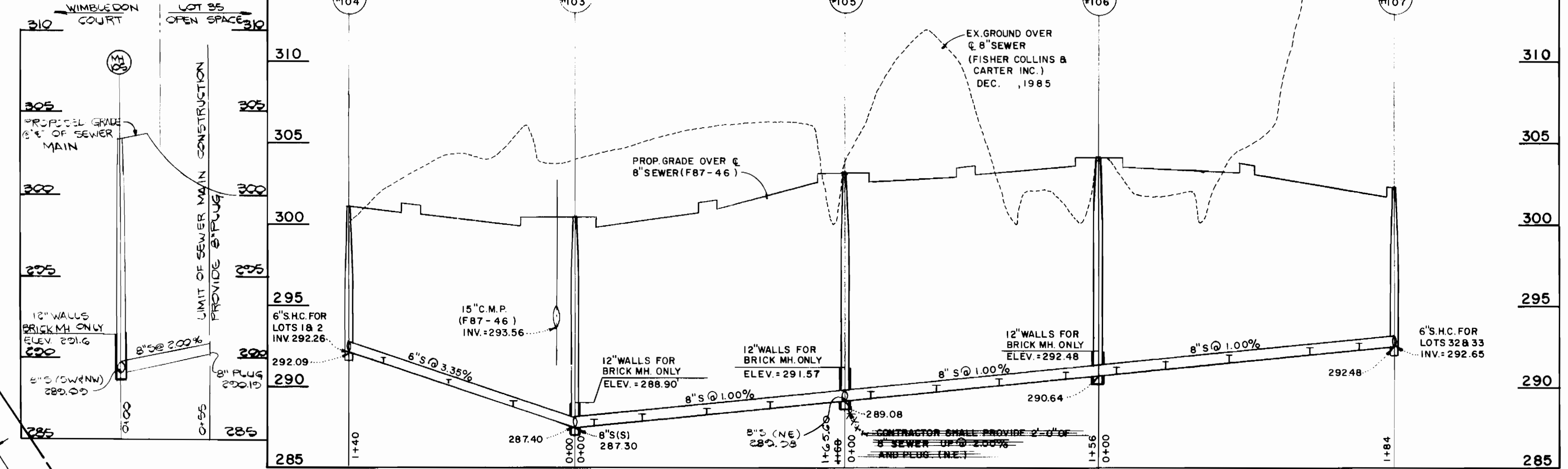
WIMBLETON COURT



NOTE: CONTRACTOR SHALL FURNISH & INSTALL 16" x 8" TAPPING SLEEVE & 8" VALVE, COMPLETE.

NOTE: TAPPING SLEEVE & VALVE MOVED 5' N.W. (UP HILL) FROM PLAN DUE TO HOUSE VALVE 315 A PLAN LOCATION

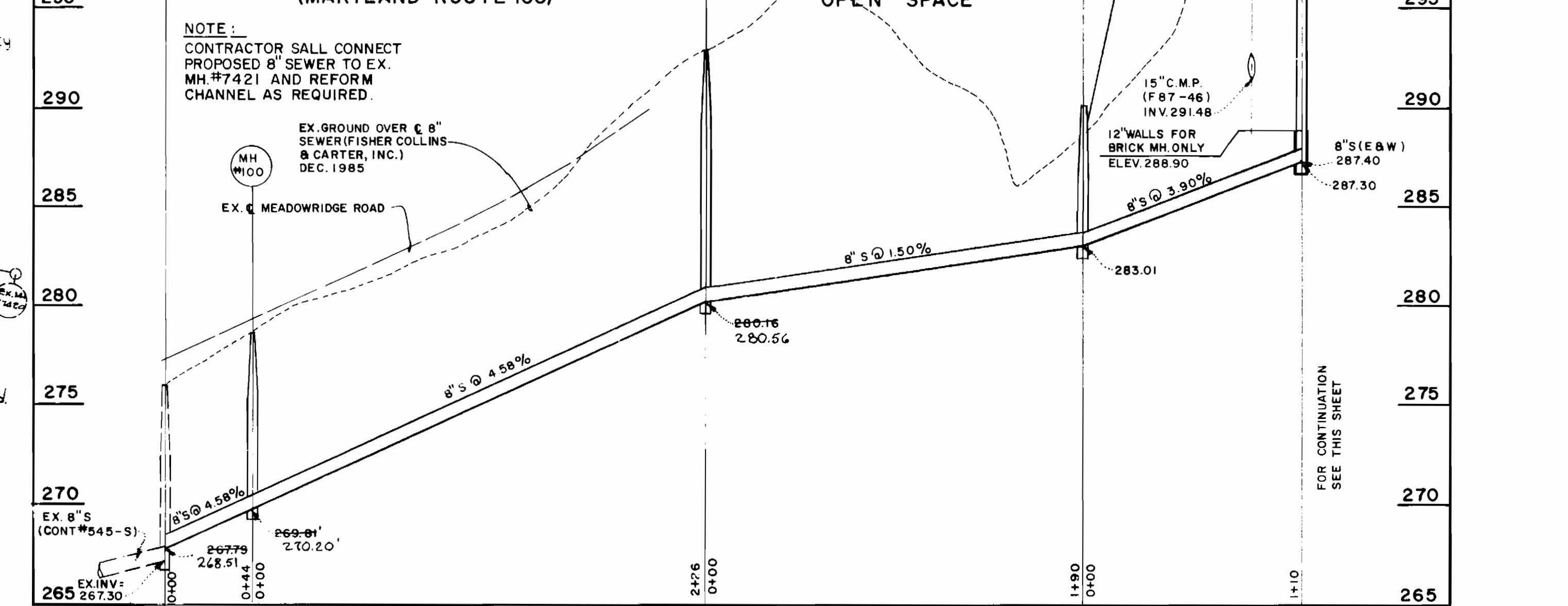
WIMBLETON COURT



NOTE: CONTRACTOR SHALL CONNECT PROPOSED 8" SEWER TO EX. MH #7421 AND REFORM CHANNEL AS REQUIRED.

NOTE: CONSTRUCT MH #102, 1'-6" ABOVE EX. GROUND SEE DETAIL G. 5.41

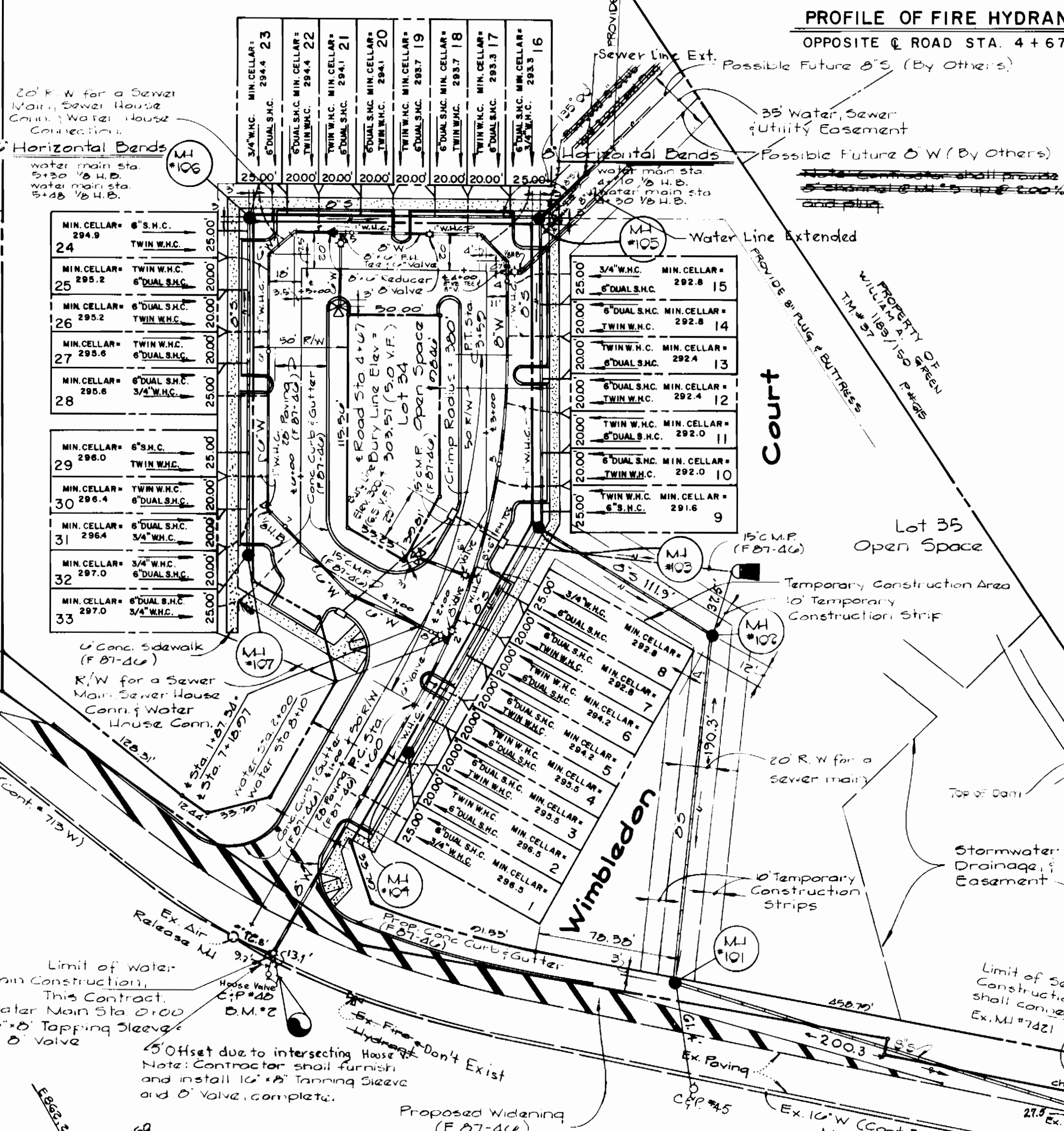
MEADOWRIDGE ROAD (MARYLAND ROUTE 103)



PROFILES

SCALE: 1" = 50' HOR. 1" = 5' VERT.

CONTRACT NO. 14-1582-D WIMBLETON (LOTS 1-35) WATER AND SEWER MAIN EXTENSION HOWARD COUNTY, MARYLAND

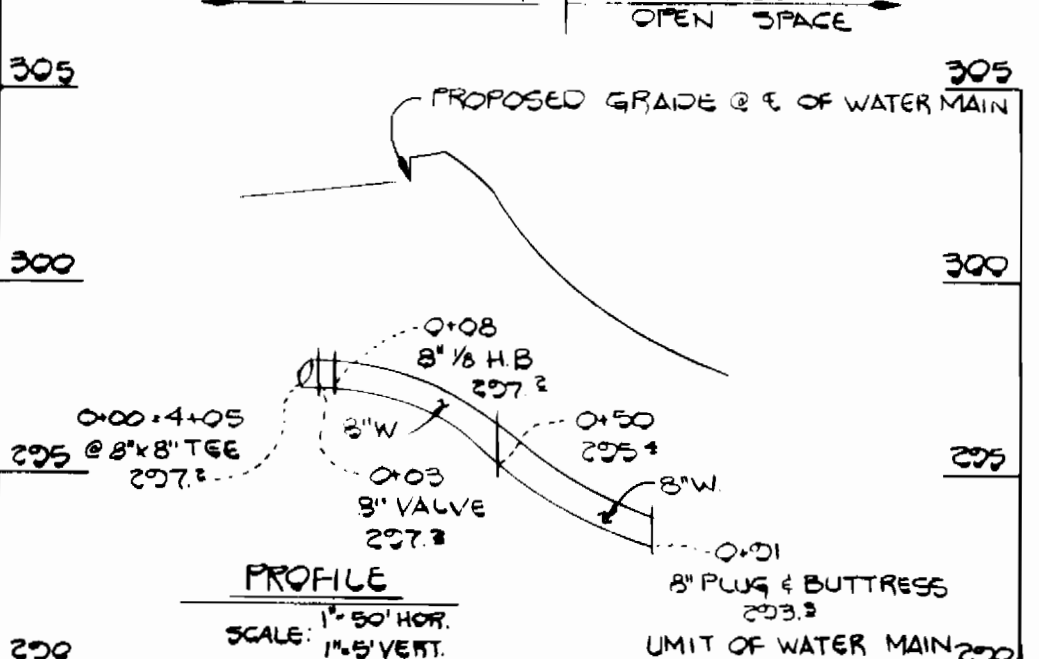


Plan

Scale: 1" = 30'

MEADOWRIDGE ROAD (Maryland Route 103)

Table with 4 columns: Type, Water Main Sta., Elevation, Distance. Rows include 6" H.B., 8" H.B., and 12" H.B.



SCALE: 1" = 50' HOR. 1" = 5' VERT.

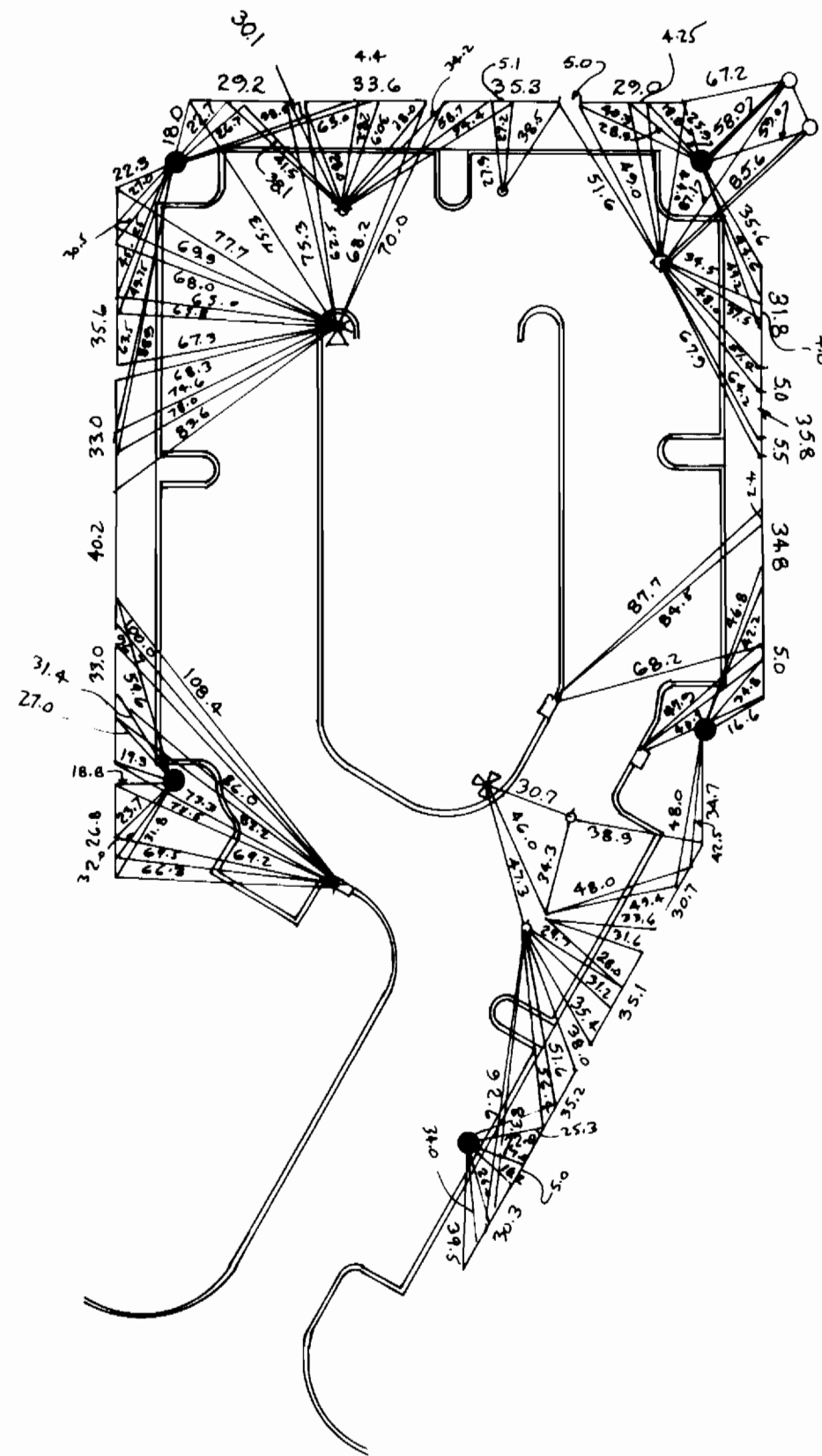
DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND. Includes signatures of Joseph N. Nunn and Robert M. Beinger.

FISHER, COLLINS AND CARTER, INC. CONSULTING ENGINEERS AND LAND SURVEYORS. 8388 COURT AVENUE, ELLICOTT CITY, MARYLAND 21043.

Table with columns: DES: D.E.V., DRN: A.S., CHK: T.A.F., DATE: 01/27/87, BY: NO., REVISION, DATE.

PLAN AND PROFILES WATER AND SEWER MAINS. 600' SCALE MAP NO. 37 BLOCK NO. 15

WIMBLETON CONTRACT NO. 14-1582-D WATER AND SEWER MAIN EXTENSION FIRST ELECTION DISTRICT HOWARD COUNTY, MARYLAND. SCALE AS SHOWN SHEET 3 OF 3



AS-DU!! T

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

DIRECTOR OF PUBLIC WORKS _____ DATE _____ CHIEF, BUREAU OF ENGINEERING _____ DATE _____

DES:					
DRN:					
CHK:					
DATE:	BY	N.O.	REVISION	DATE	

AS-DU!! T

600' SCALE MAP NO. _____ BLOCK NO. _____

WIMBLEDON
CONTRACT NO. 14-1582-D
WATER AND SEWER MAIN EXTENSION
FIRST ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

SCALE
AS
SHOWN

SHEET
2 OF 3

DATE 5-25-87

BRUNING 69150