

GENERAL NOTES

PART - I

1. APPROXIMATE LOCATIONS 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.
2. ALL HORIZONTAL CONTROLS ARE BASED ON MARYLAND STATE COORDINATES.
3. ALL VERTICAL CONTROLS ARE BASED ON U.S.G.S. DATUM.
4. ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS.
5. CLEAR ALL UTILITIES BY A MINIMUM OF 6' CLEAR ALL POLES 2'-0" MINIMUM OR TUNNEL AS REQUIRED.
6. FOR ALL STANDARD DETAILS SEE STANDARDS BOUND IN SPECIFICATIONS.
7. CONTRACTOR SHALL LOCATE EXISTING UTILITIES IN ADVANCE OF CONSTRUCTION OPERATIONS IN THE VICINITY OF PROPOSED UTILITIES.
8. CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITIES OR AGENCIES AT LEAST FIVE (5) DAYS BEFORE STARTING WORK SHOWN ON THESE PLANS:
  - BALTIMORE GAS AND ELECTRIC COMPANY - UNDERGROUND ELECTRIC DISTRIBUTION ENGINEERING - DAMAGE CONTROL - 234-5691.
  - BALTIMORE GAS AND ELECTRIC COMPANY - UNDERGROUND GAS DISTRIBUTION ENGINEERING - 559-0100.
  - CHESAPEAKE AND POTOMAC TELEPHONE CO. - 725-9976
  - AMERICAN TELEPHONE AND TELEGRAPH - CABLE LOCATION DIVISION - 301-393-3553.
  - COLONIAL PIPELINE COMPANY - 781-4641.
9. TREES ARE TO BE PROTECTED FROM DAMAGE TO MAXIMUM EXTENT. TREES LOCATED WITHIN THE CONSTRUCTION STRIP ARE NOT TO BE REMOVED OR DAMAGED BY THE CONTRACTOR.
10. AT LEAST TWO PERMANENT BENCH MARKS, LOCATION AND ELEVATION TO BE NOTED.
11. CONTRACTOR SHALL REMOVE TREES, STUMPS AND ROOTS ALONG LINE OF EXCAVATION AS DIRECTED BY THE ENGINEER. PAYMENT FOR SUCH REMOVAL SHALL BE INCLUDED IN THE UNIT PRICE BID FOR EXCAVATION AND BACKFILL FOR WATER AND SEWER MAINS.
12. PLACE REGULATION "MEN WORKING" AND WARNING SIGNS AS REQUIRED TO COMPLY WITH MARYLAND STATE HIGHWAY ADMINISTRATION MANUAL OF TRAFFIC CONTROL FOR HIGHWAY CONSTRUCTION AND MAINTENANCE OPERATIONS.

PART - II WATER

1. ALL WATER MAINS TO BE C.I.P., D.I.P., OR A.C.P. UNLESS OTHERWISE NOTED.
2. TOP OF ALL WATER MAINS TO HAVE A MINIMUM OF 3 1/2' COVER UNLESS OTHERWISE NOTED.
3. ALL VALVES SHALL BE STRAPPED TO TEES IN ACCORDANCE WITH STANDARD DETAILS.
4. BLOCK ALL FITTINGS WITH CONCRETE, SEE STANDARDS BOUND IN SPECIFICATIONS.
5. BURY LINE ELEVATIONS ON FIRE HYDRANTS SHALL BE SET TO THE 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 TO BE COMPACTED IN ACCORDANCE WITH SECTION 5-15 OF THE STANDARD SPECIFICATIONS.

PART - III SEWER

1. ALL SEWER MAINS SHALL BE C.S.P., V.C.P., OR A.C.P. CLASS 8400 UNLESS OTHERWISE NOTED.
2. THE CONTRACTOR SHALL PROVIDE A JOINT IN ALL SEWER MAINS WITHIN 2'-0" OF EXTERIOR MANHOLE WALL.
3. ALL MANHOLES SHALL BE 4'-0" INSIDE DIAMETER, UNLESS OTHERWISE NOTED.
4. COST OF POLYFILTER X AND RIP-RAP TO BE INCLUDED IN THE UNIT PRICE BID FOR FURNISHING AND LAYING OF SEWER MAINS.
5. GABIONS AND RENO MATTRESS IN FLOOD PLAINS WHICH WILL BE SUBJECTED TO HIGH FLOWS MAY BE USED IN PLACE OF RIP-RAP.
6. SODDING TO BE PROVIDED IN AREAS OF LOW FLOW.
7. WATERTIGHT MANHOLE FRAME AND COVER TO BE USED WHERE INDICATED ON DRAWINGS. STANDARD DETAIL 5-12 (CRCP-60A). WHERE WATERTIGHT MANHOLE FRAME AND COVER IS USED, SET TOP OF FRAME 1'-6" ABOVE FINISHED GRADE.

QUANTITIES	
8" WATER	1302' 1310
6" WATER	125' 109' Δ
8" SEWER	465' 445.9
FIRE HYDRANTS	2

CONTRACT NO. C-2570-D-W-5  
TOWN CENTER  
LOTS C-1, C-2, C-3, D-1, D-2, D-3,  
FORMERLY PARCELS C, D & H,  
SECTION 7, AREA 7  
WOODFORD  
(VANTAGE POINT ROAD)



**MACRIS-FOWLER & ASSOCIATES**  
ENGINEERS, SURVEYORS, PLANNERS  
27 WEST JEFFERSON ST. ROCKVILLE MD. PHONE (301) 340-8705

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND  
10-16-74 DATE  
*W. O. Libert*  
CHIEF-BUREAU OF ENGINEERING

CONTRACT NO. C-2570-D-W-5

VICINITY MAP  
&  
GENERAL NOTES

Rev. Date	Rev. No.	Revision Description
4-21-75	Δ	AS BUILT

COLUMBIA  
TOWN CENTER  
ELECTION DISTRICT CLARKSVILLE NO. 5

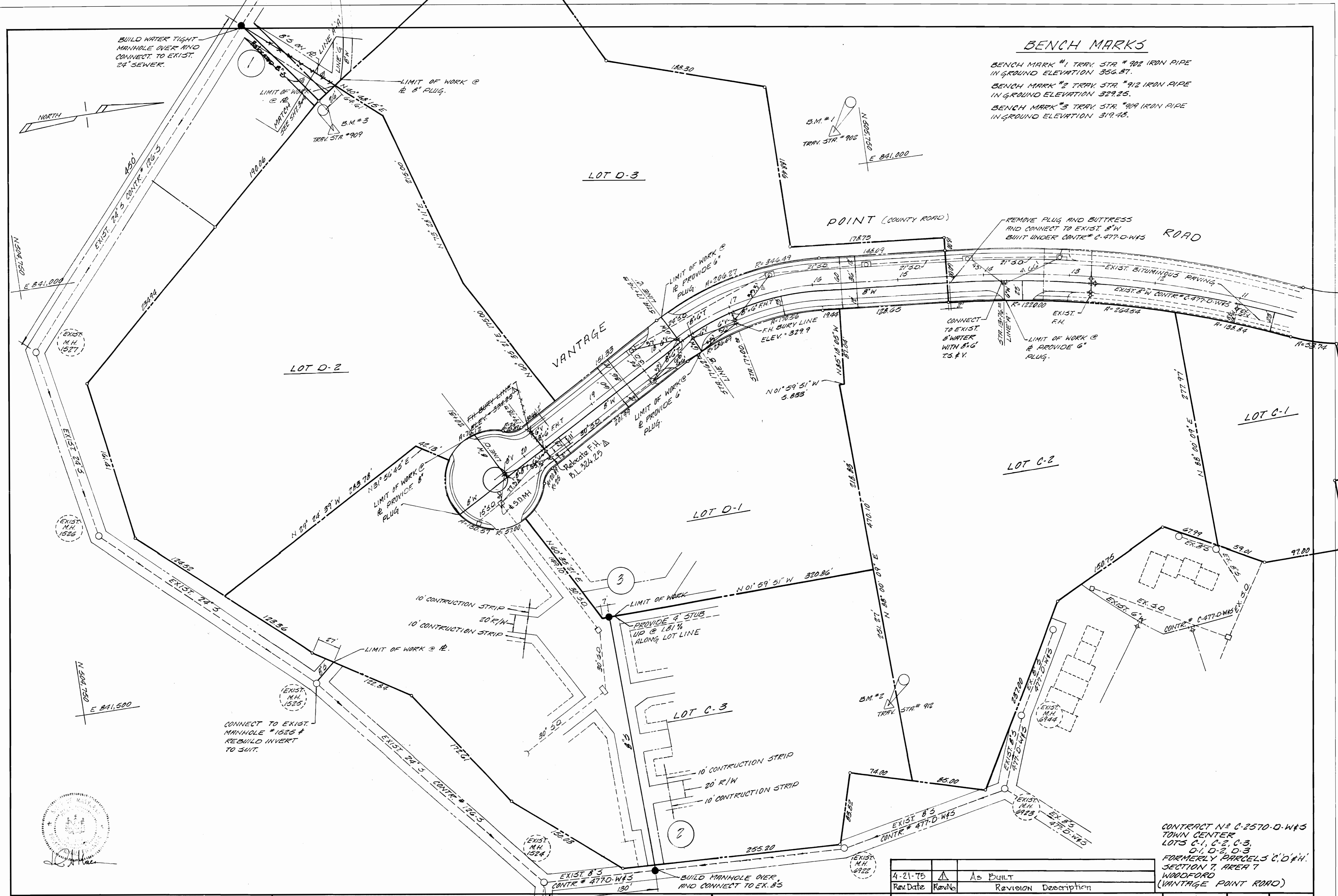
DRAWING NO. 1 OF 4  
SCALE AS SHOWN  
1/8" = 50'

AS BUILT 4-21-75 M. WILHELM. SEPT. 30, 1974

2/12/07

suspend

suspend



**BENCH MARKS**

BENCH MARK #1 TRAV. STA. # 902 IRON PIPE IN GROUND ELEVATION 356.87.  
 BENCH MARK #2 TRAV. STA. # 912 IRON PIPE IN GROUND ELEVATION 329.25.  
 BENCH MARK #3 TRAV. STA. # 909 IRON PIPE IN GROUND ELEVATION 319.48.



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DEPARTMENT OF PUBLIC WORKS  
 HOWARD COUNTY, MARYLAND  
 10-16-74 DATE  
 WOLF/bat  
 CHIEF BUREAU OF ENGINEERING

CONTRACT NO. C-2570-D-W#S

PLAN OF  
 WATER & SEWER MAINS

Rev. Date	Rev. No.	Revision Description
4-21-75	1	As Built

COLUMBIA TOWN CENTER  
 ELECTION DISTRICT CLARKSVILLE NO.5

DRAWING NO. 2 OF 4  
 SCALE 1"=50'

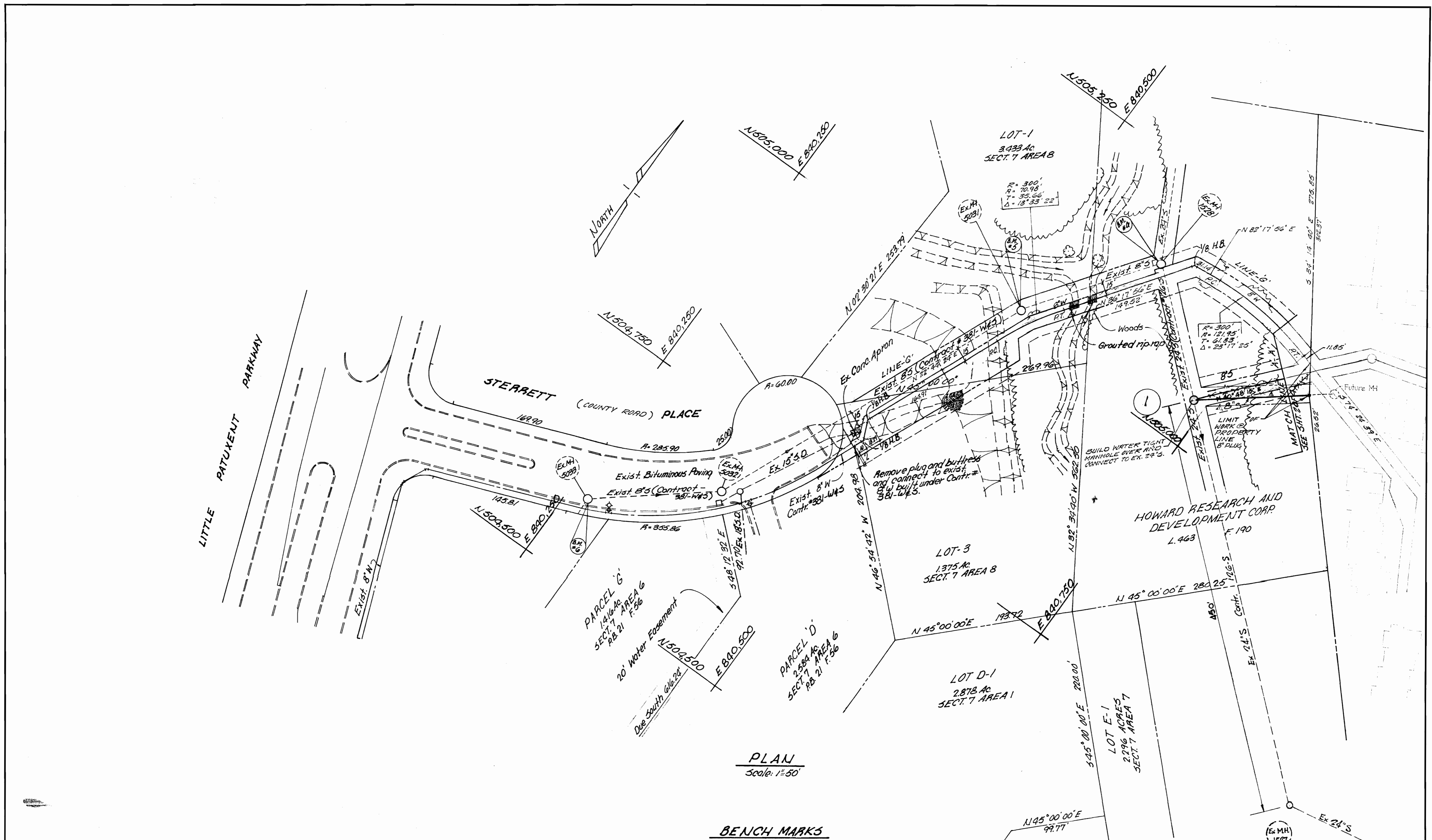
CONTRACT NO. C-2570-D-W#S  
 TOWN CENTER  
 LOTS C-1, C-2, C-3,  
 D-1, D-2, D-3  
 FORMERLY PARCELS C, D & H,  
 SECTION 7, AREA 7  
 WOODFORD  
 (VANTAGE POINT ROAD)

As Built 4-21-75 M. WILHELM

SEPT. 30, 1974

suspense

suspense



**PLAN**  
Scale: 1"=50'

**BENCH MARKS**

- Bench Mark #4 Cross cut in rim exist.  
M.H. #1528 elevation 309.02
- Bench Mark #5 Cross cut in rim exist.  
M.H. #5031 elevation 311.50
- Bench Mark #6 Cross cut in rim exist.  
M.H. #3032 elevation

CONTRACT NO. C-2570-D-W4S  
TOWN CENTER  
LOTS C-1, C-2, C-3,  
D-1, D-2, D-3  
FORMERLY PARCELS C, D & H,  
SECTION 7, AREA 7  
WOODFORD  
(VANTAGE POINT ROAD)



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DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND  
10-16-74  
DATE  
*W.O. Fulbert*  
CHIEF BUREAU OF ENGINEERING

CONTRACT NO. C-2570-D-W4S

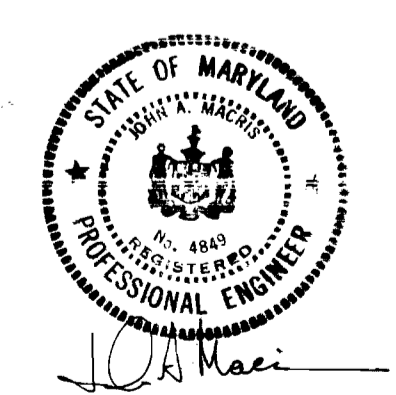
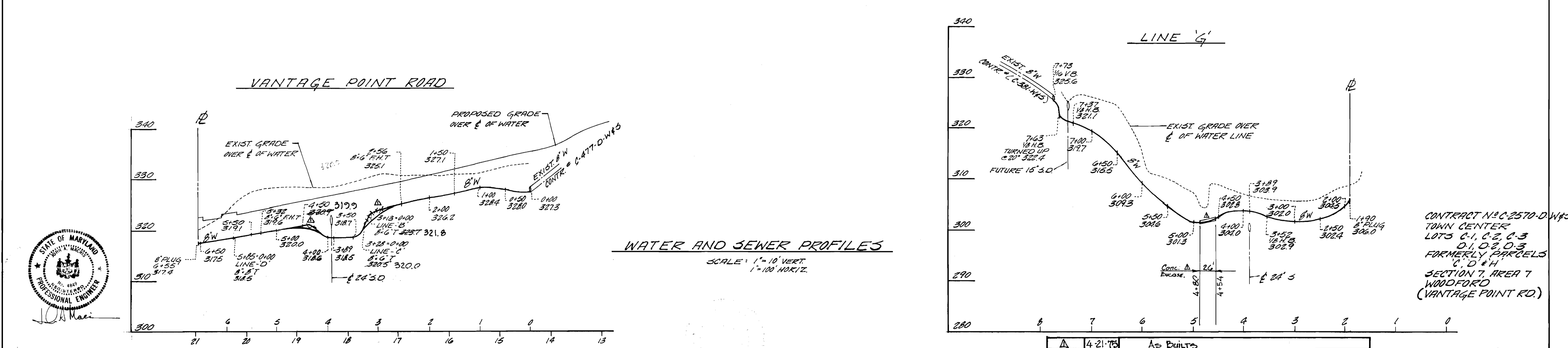
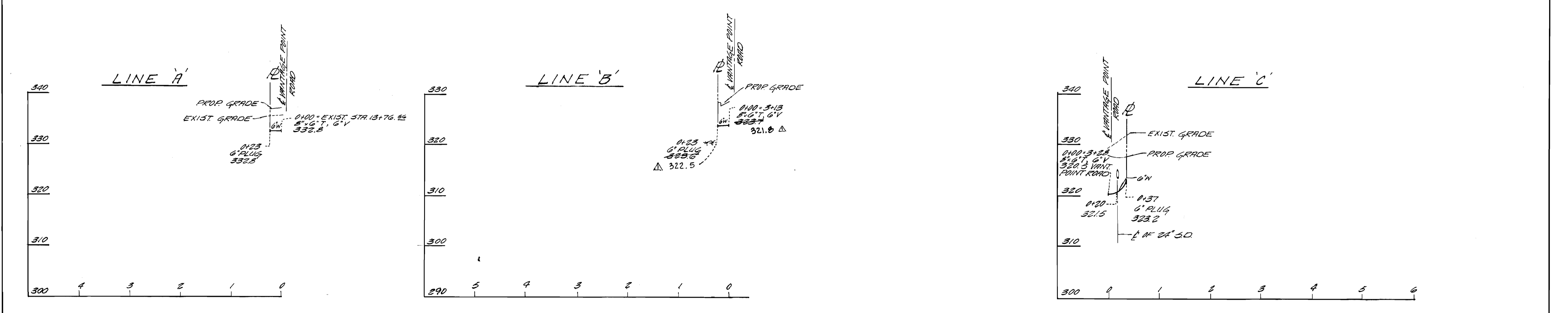
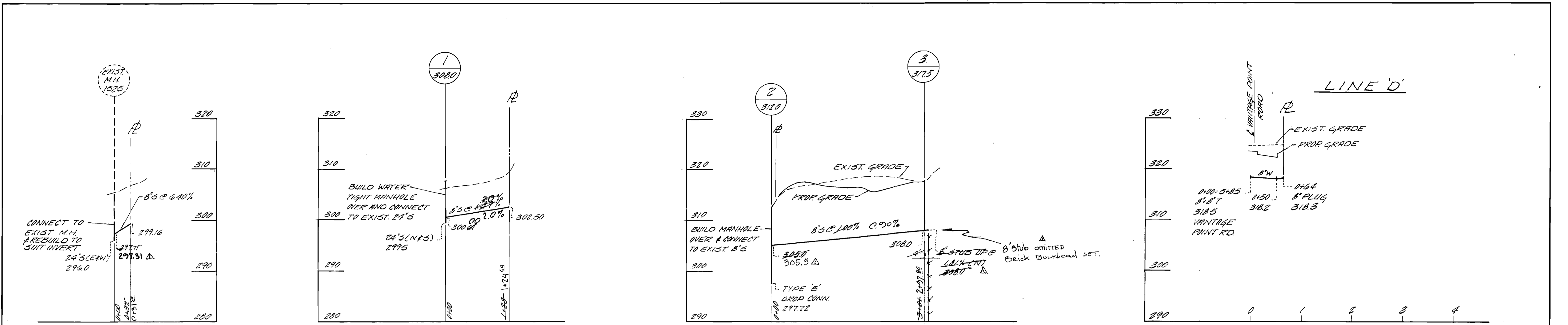
PLAN & DETAILS OF  
WATER & SEWER MAINS

Rev. Date	Rev. No.	Revision Description
4-21-75	Δ	As Built

**COLUMBIA TOWN CENTER**  
ELECTION DISTRICT CLARKSVILLE NO. 5

**DRAWING NO. 3 OF 4**  
**SCALE 1"=50'**  
73-504

As Built 4-21-75 M. WILHELM SEPT. 30, 1974



<b>MACRIS FOWLER &amp; ASSOCIATES</b> ENGINEERS, SURVEYORS, PLANNERS 27 WEST JEFFERSON ST. ROCKVILLE MD. PHONE (301) 340-8705	DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND 10-16-74 DATE	CONTRACT NO. C-2570-D-W/S	PROFILES OF WATER AND SEWER MAINS	COLUMBIA TOWN CENTER ELECTION DISTRICT CLARKSVILLE NO. 5	DRAWING NO. 2 OF 4	SCALE AS SHOWN 1" = 10' HORIZ. 1" = 10' VERT.
					AS BUILT 4-21-75 Rev. Date	PREVISION DESCRIPTION

AS BUILT 4-21-75 M. WILHELM

WS 570 WWS/A