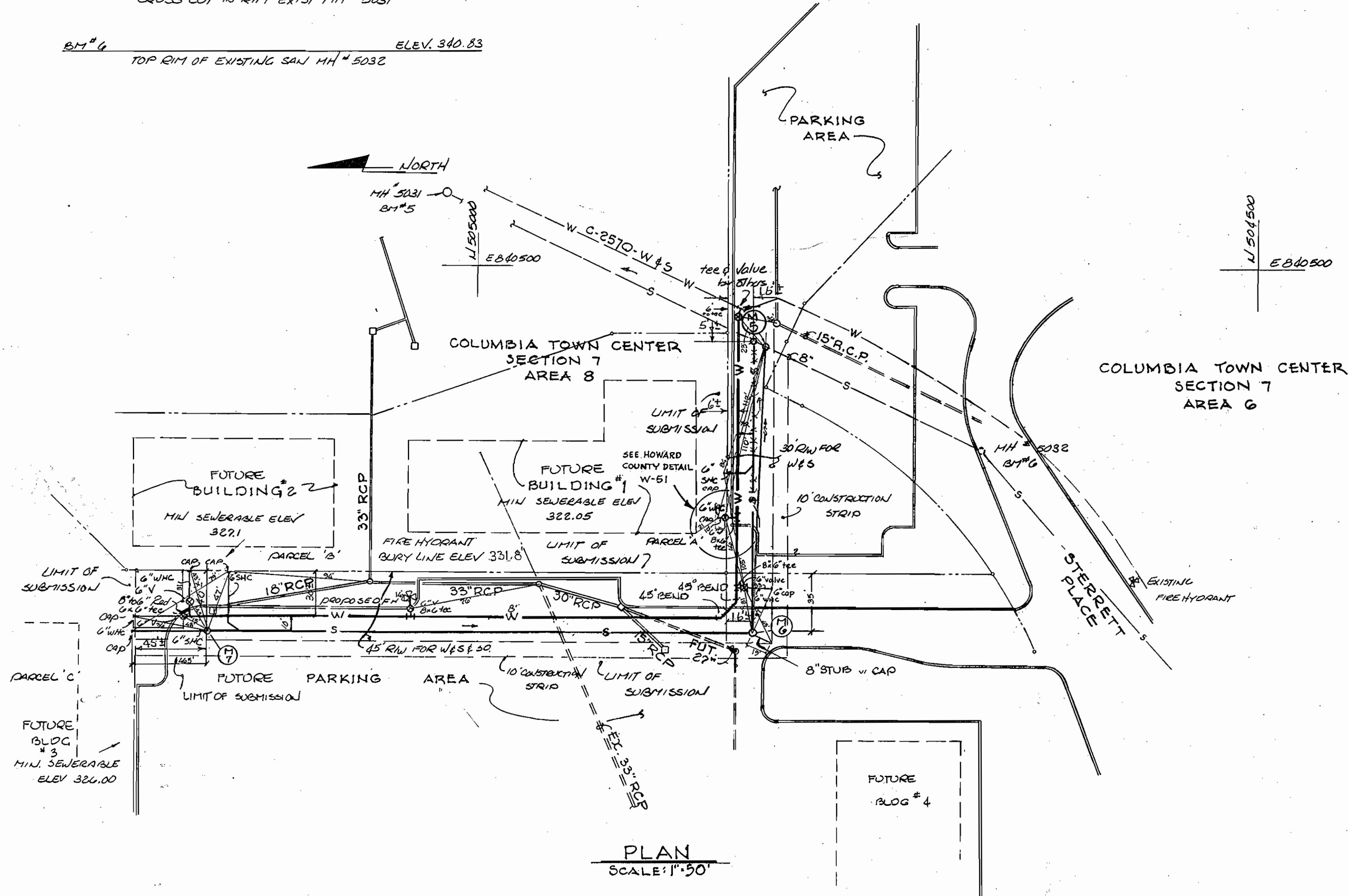
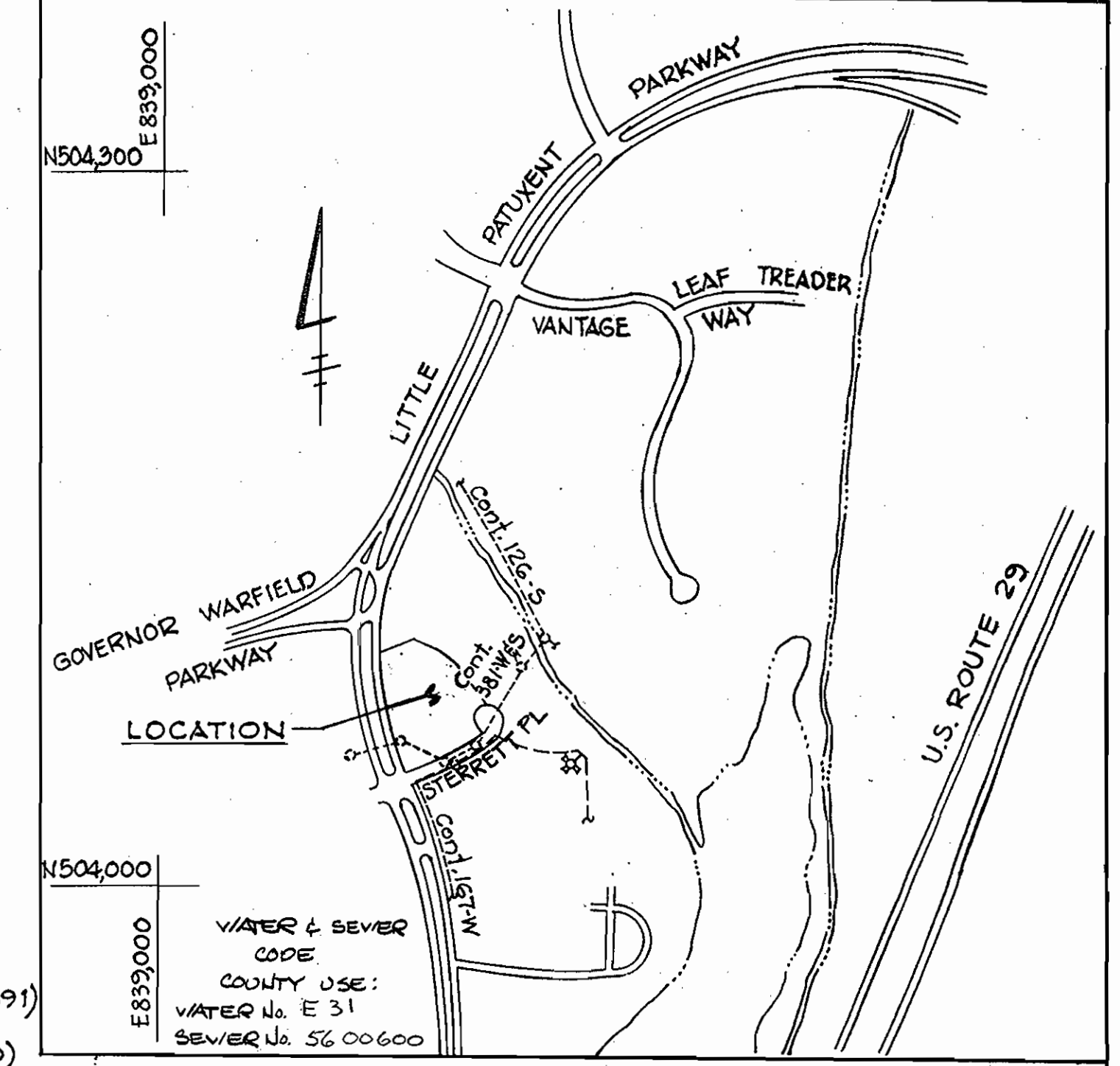


BENCH MARKS  
 B.M. # 5 CROSS CUT IN RIM EXIST. MH # 5031 ELEV. 311.50  
 B.M. # 6 TOP RIM OF EXISTING SAN. MH # 5032 ELEV. 310.83



GENERAL NOTES

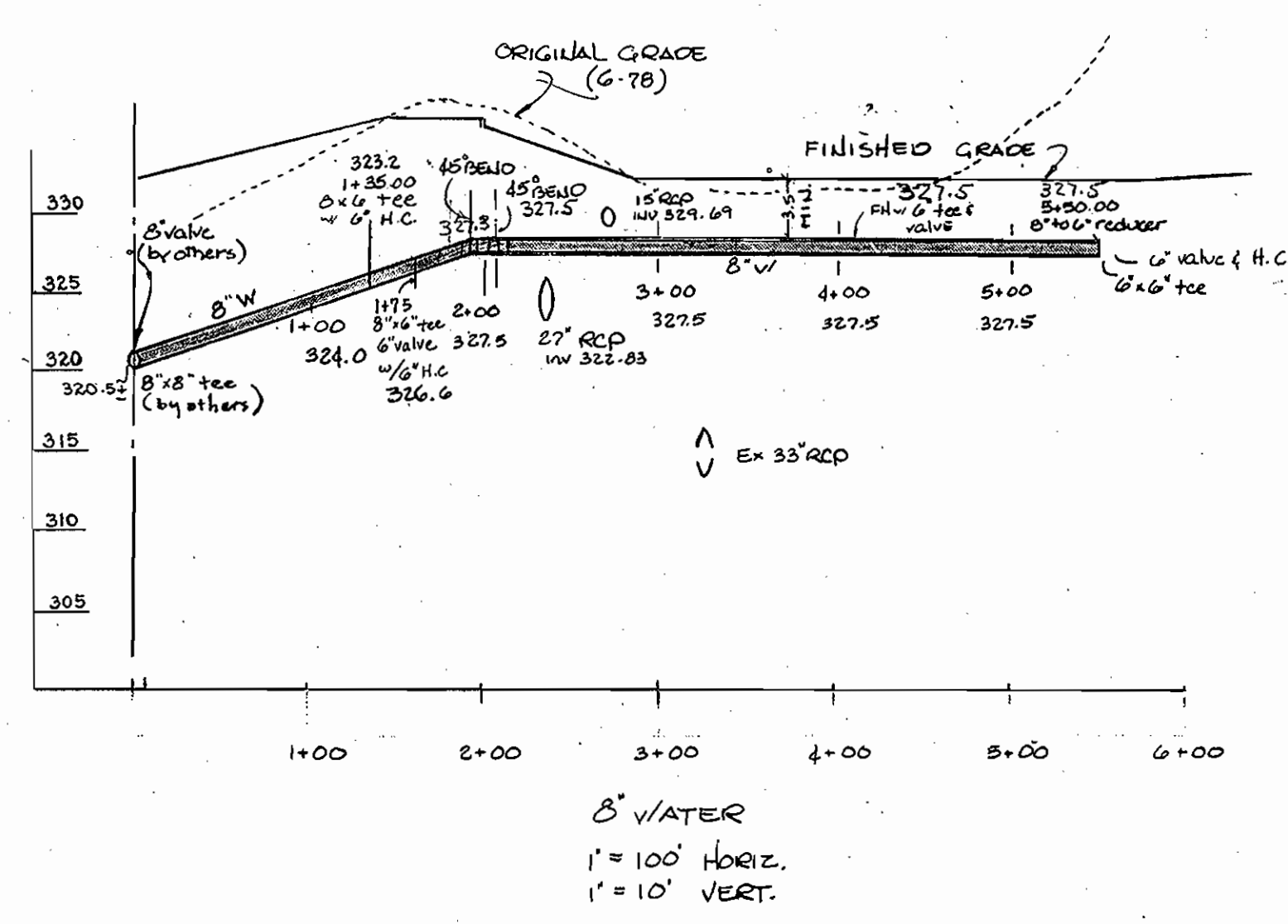
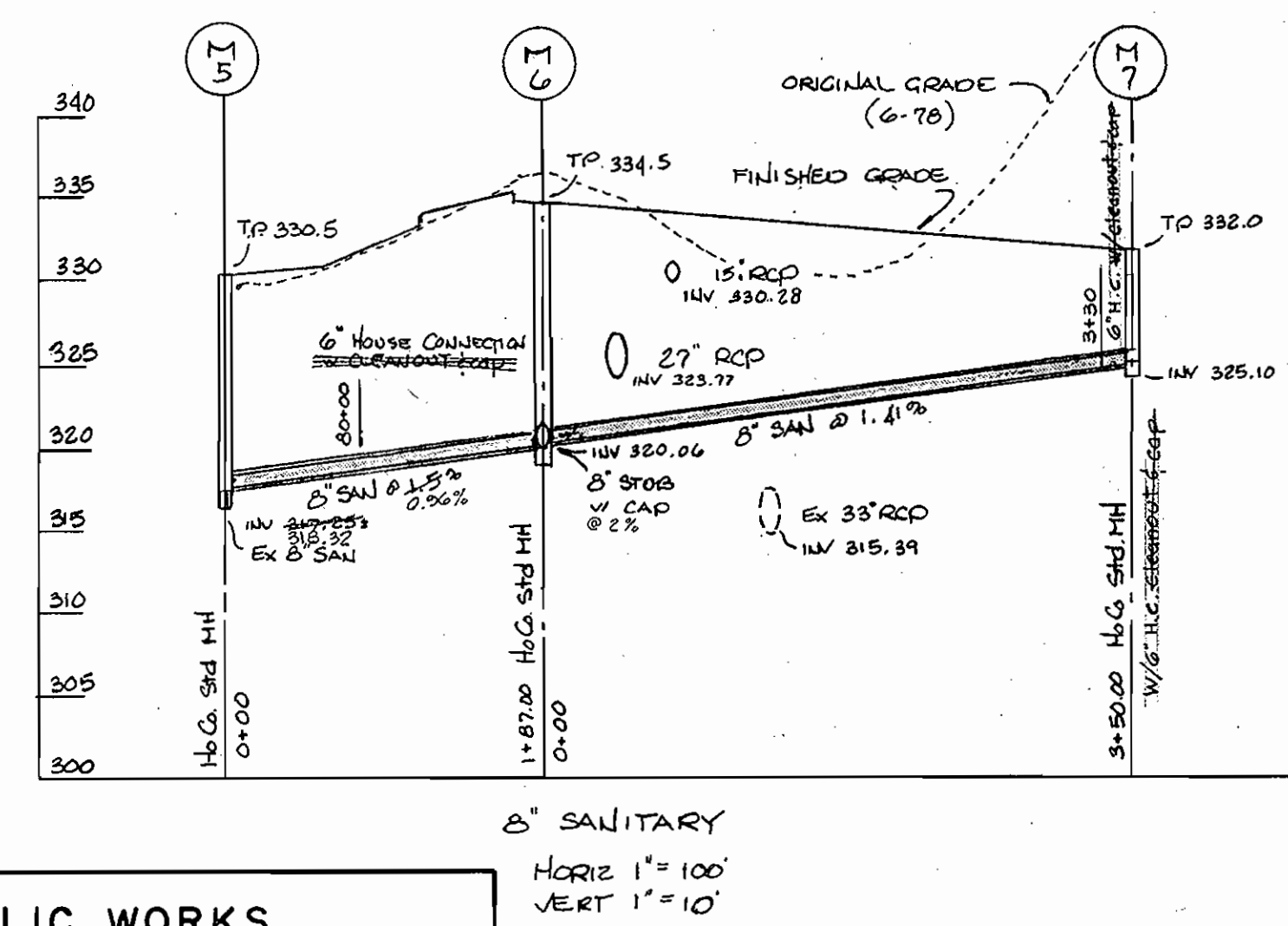
- APPROXIMATE LOCATIONS OF EXISTING UTILITIES ARE SHOWN. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT MAINS AND SERVICES AND MAINTAIN UNINTERRUPTED SUPPLY. ANY DAMAGE INCURRED SHALL BE REPAIRED IMMEDIATELY.
- ALL ELEVATIONS SHOWN ARE INVERT ELEVATIONS.
- THE CONTRACTOR SHALL LOCATE EXISTING UTILITIES A MINIMUM OF 2-WEEKS IN ADVANCE OF CONSTRUCTION OPERATIONS IN VICINITY OF UTILITIES.
- CLEAR ALL UTILITIES BY A MINIMUM OF 6"; CLEAR ALL POLES BY 2' MINIMUM OR TUNNEL AS REQUIRED.
- THE CONTRACTOR SHALL PROVIDE A JOINT IN ALL SEWER MAINS WITHIN 2'-0" OF EXTERIOR MANHOLE WALLS.
- ALL MANHOLES SHALL BE 4'-0" INSIDE DIAMETER.
- ALL WATER MAINS TO HAVE A MINIMUM OF 3'-6" COVER, UNLESS OTHERWISE NOTED.
- BLOCK ALL FITTINGS WITH CONCRETE. SEE STANDARDS BOUND IN SPECIFICATIONS.
- ALL FIRE HYDRANTS SHALL BE STRAPPED TO THE TEE AND SHALL BE BUTTRESSED WITH CONCRETE IN ACCORDANCE WITH STANDARDS.
- COST OF STRAPPING FIRE HYDRANTS AND VALVES TO TEES TO BE INCLUDED IN THE UNIT PRICE BID FOR FURNISHING AND LAYING WATER MAINS.
- THE CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITIES OR AGENCIES AT LEAST FIVE (5) WORKING DAYS BEFORE STARTING WORK SHOWN ON THESE DRAWINGS:  
 BALTIMORE GAS AND ELECTRIC CO. - UNDERGROUND ELECTRIC - (234-5691)  
 C & P TELEPHONE CO. - (725-9976)  
 BALTIMORE GAS AND ELECTRIC CO. - UNDERGROUND GAS - (559-0100)  
 MISS UTILITY - (800-441-8355)
- ALL HORIZONTAL AND VERTICAL CONTROLS ARE BASED ON MARYLAND STATE DATUM.
- ALL SEWER MAINS SHALL BE C.S.P.C., V.C.P.C. OR A.C.P. CLASS 2400 UNLESS OTHERWISE NOTED.
- FOR ALL STANDARD DETAILS, SEE STANDARDS BOUND IN SPECS.
- ALL VALVES SHALL BE STRAPPED TO TEES IN ACCORDANCE WITH STANDARD DETAILS.
- ALL WATER MAINS TO BE C.I.P., D.I.P. OR A.C.P. UNLESS OTHERWISE NOTED.



TYPE OF BUILDINGS: OFFICE  
 NUMBER OF LOTS: 4  
 NUMBER OF WATER HOUSE CONNECTIONS: 2  
 NUMBER OF SEWER HOUSE CONNECTIONS: 2  
 DRAINAGE AREA: 19 AC.

QUANTITIES:

ITEM	ESTIMATED	AS BUILT	SUPPLIER
8" SAN	537 LF	538 LF.	Certain-teed cl. 2400
6" SAN H.C.	123 LF	101.5 LF.	" " " "
MANHOLES	34.5 VF	31.6 VF	ATLANTIC PRE-CAST
8" WATER	550 LF	521 LF.	U.S. Pipe (D.I.P.) cl. 82
6" V.H.C.	114 LF	114.5 LF.	" " " " cl. 85
FIRE HYDRANT	1	1	American Darling



6/15/79  
 George H. Eichen  
 CONTRACT NO. 2068-D-V18  
 TOWN CENTER  
 SECTION 7 AREA 8  
 WATER & SEWER EXTENSION

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND CHIEF BUREAU OF UTILITIES DATE 8-17-79 CHIEF BUREAU OF ENGINEERING DATE	DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND Director of Public Works DATE 8-17-79	CONTRACT NO. 2068-D-V18	PLAN & PROFILES OF WATER & SEWER MAINS	COLUMBIA TOWN CENTER ELECTION DISTRICT CLARKSVILLE NO.5	DRAWING NO. 1 OF 1	SCALE AS SHOWN	DES: JCS DR: E.R.A. CKD: JCS
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AS BUILT 3/11/80 M.W.