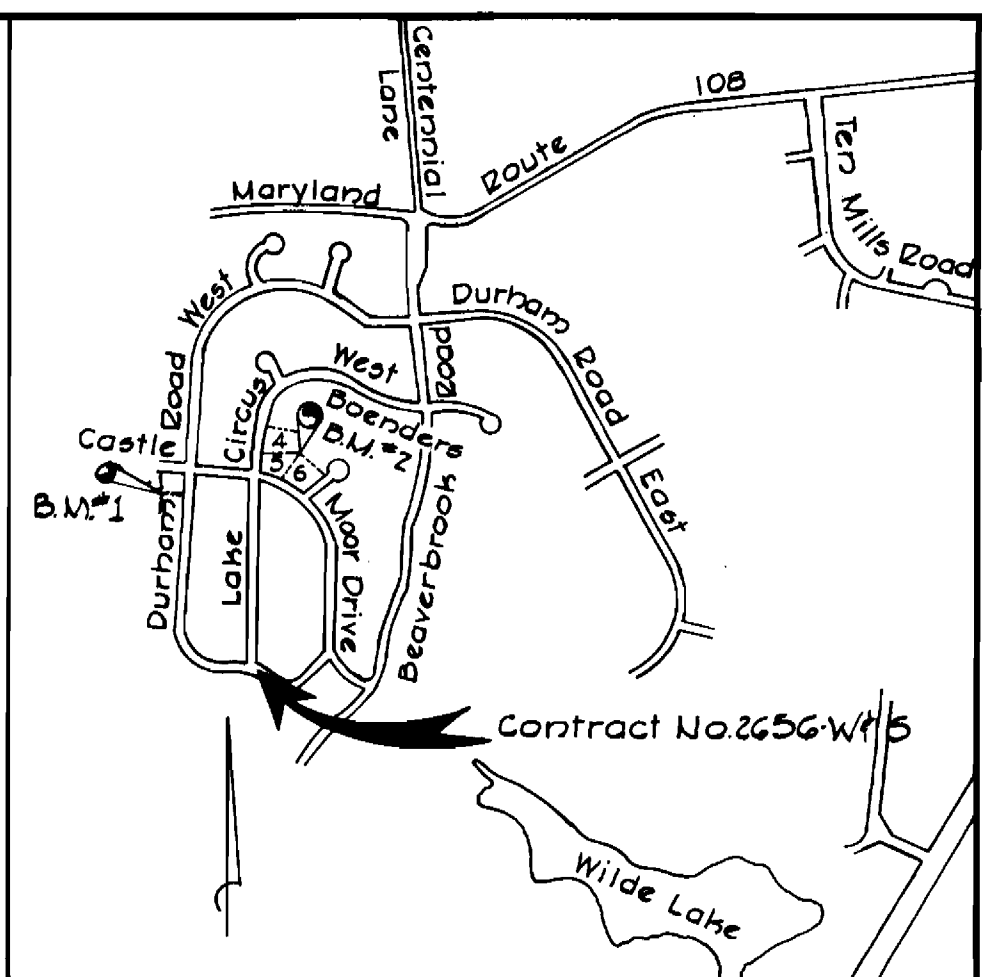
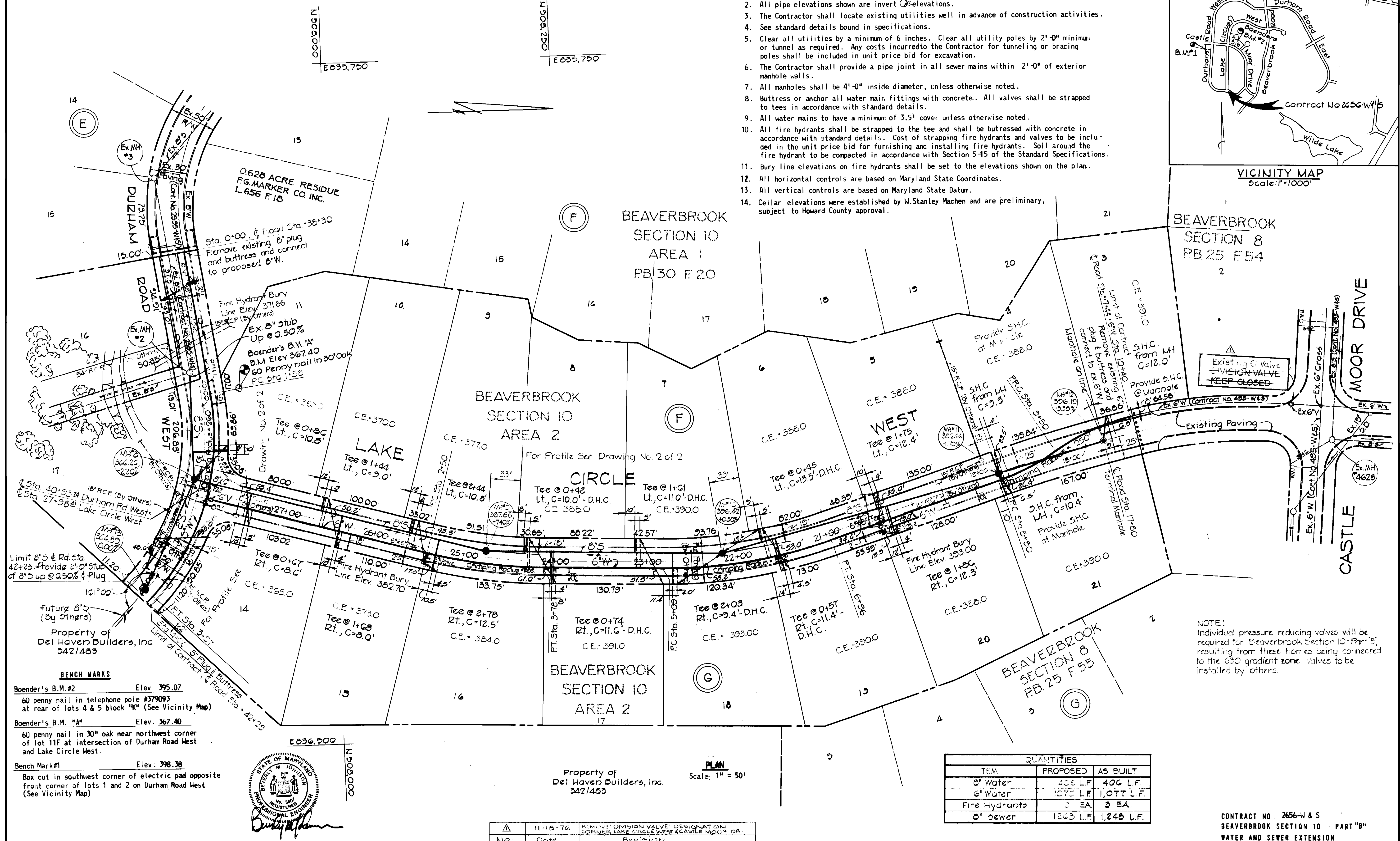


GENERAL NOTES

1. Approximate locations of existing utilities are shown. The Contractor shall take all necessary precautions to protect the existing utilities and to maintain un-interrupted service. Any damage incurred due to the Contractor's operation shall be repaired immediately at the Contractor's expense.
2. All pipe elevations shown are invert elevations.
3. The Contractor shall locate existing utilities well in advance of construction activities.
4. See standard details bound in specifications.
5. Clear all utilities by a minimum of 6 inches. Clear all utility poles by 2'-0" minimum or tunnel as required. Any costs incurred to the Contractor for tunneling or bracing poles shall be included in unit price bid for excavation.
6. The Contractor shall provide a pipe joint in all sewer mains within 2'-0" of exterior manhole walls.
7. All manholes shall be 4'-0" inside diameter, unless otherwise noted.
8. Buttress or anchor all water main fittings with concrete. All valves shall be strapped to tees in accordance with standard details.
9. All water mains to have a minimum of 3.5' cover unless otherwise noted.
10. All fire hydrants shall be strapped to the tee and shall be buttressed with concrete in accordance with standard details. Cost of strapping fire hydrants and valves to be included in the unit price bid for furnishing and installing fire hydrants. Soil around the fire hydrant to be compacted in accordance with Section 5-15 of the Standard Specifications.
11. Bury line elevations on fire hydrants shall be set to the elevations shown on the plan.
12. All horizontal controls are based on Maryland State Coordinates.
13. All vertical controls are based on Maryland State Datum.
14. Cellar elevations were established by W. Stanley Machen and are preliminary, subject to Howard County approval.



VICINITY MAP
Scale: 1"=1000'



Existing Valve
EMISION VALVE
KEEP CLOSED

NOTE:
Individual pressure reducing valves will be required for Beaverbrook Section 10 - Part B, resulting from these homes being connected to the 650 gradient zone. Valves to be installed by others.

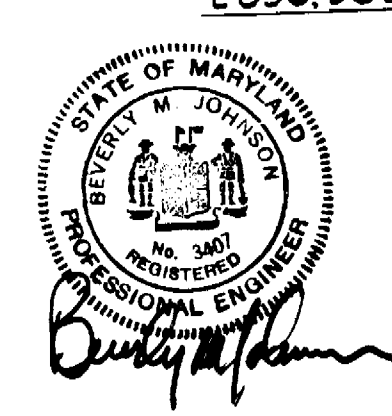
QUANTITIES		
ITEM	PROPOSED	AS BUILT
8" Water	408 L.F.	408 L.F.
6" Water	1075 L.F.	1,077 L.F.
Fire Hydrants	3 EA.	3 EA.
8" Sewer	1263 L.F.	1,248 L.F.

BENCH MARKS

Boender's B.M. #2 Elev. 395.07
60 penny nail in telephone pole #379093 at rear of lots 4 & 5 block "K" (See Vicinity Map)

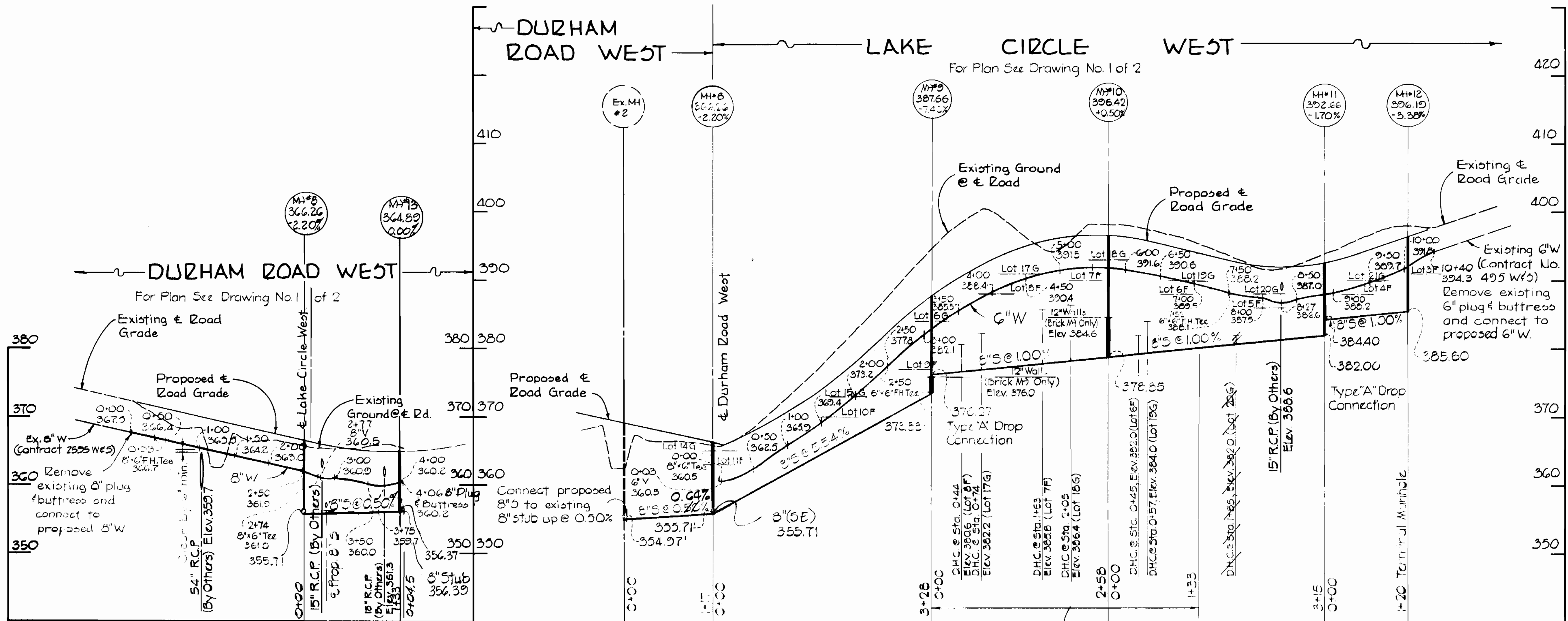
Boender's B.M. "A" Elev. 367.40
60 penny nail in 30" oak near northwest corner of lot 11F at intersection of Durham Road West and Lake Circle West.

Bench Mark #1 Elev. 398.38
Box cut in southwest corner of electric pad opposite front corner of lots 1 and 2 on Durham Road West (See Vicinity Map)

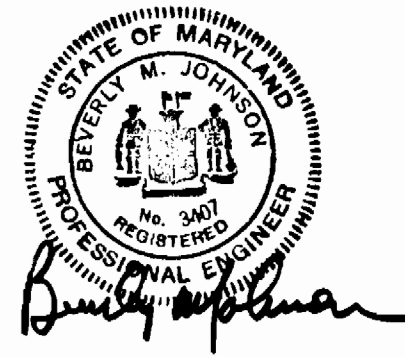


Symbol	Date	Revision
△	11-18-76	REMOVE DIVISION VALVE DESIGNATION CORNER LAKE CIRCLE WEST & CASTLE MOOR DR.

PURDUM & JESCHKE ENGINEERS 1023 N. CALVERT ST. BALTIMORE, MARYLAND	DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND 5-17-76	CONTRACT NO. 2656-W & S	PLAN OF WATER & SEWER MAINS	BEAVERBROOK SECTION 10 ELECTION DISTRICT CLARKSVILLE NO. 5	DRAWING NO. 1	SCALE 1" = 50'	DESIGNED: AEL
					OF 2		CHECKED: TAF



PROFILE
 HORIZ: 1" = 100'
 VERT: 1" = 10'
 A.C.P. Class 3300 M³ wall to M³ wall or Low Cradle V.C.P.X. and C.S.P.X.



PURDUM & JESCHKE
 ENGINEERS
 1023 N. CALVERT ST.
 BALTIMORE, MARYLAND

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND
 79 Regan St. 5-17-76
 DIRECTOR OF PUBLIC WORKS DATE CHIEF-BUREAU OF ENGINEERING DATE

CONTRACT NO. 2656-W&S

PROFILE OF
 WATER & SEWER MAINS

BEAVERBROOK SECTION 10
 ELECTION DISTRICT CLARKSVILLE NO. 5

DRAWING NO. 2 OF 2	SCALE AS SHOWN	DESIGNED: AEL
		DRAFTED: DMB
		CHECKED: TAF

CONTRACT NO. 2656-W&S
 BEAVERBROOK SECTION 10 PART "B"
 WATER AND SEWER EXTENSION