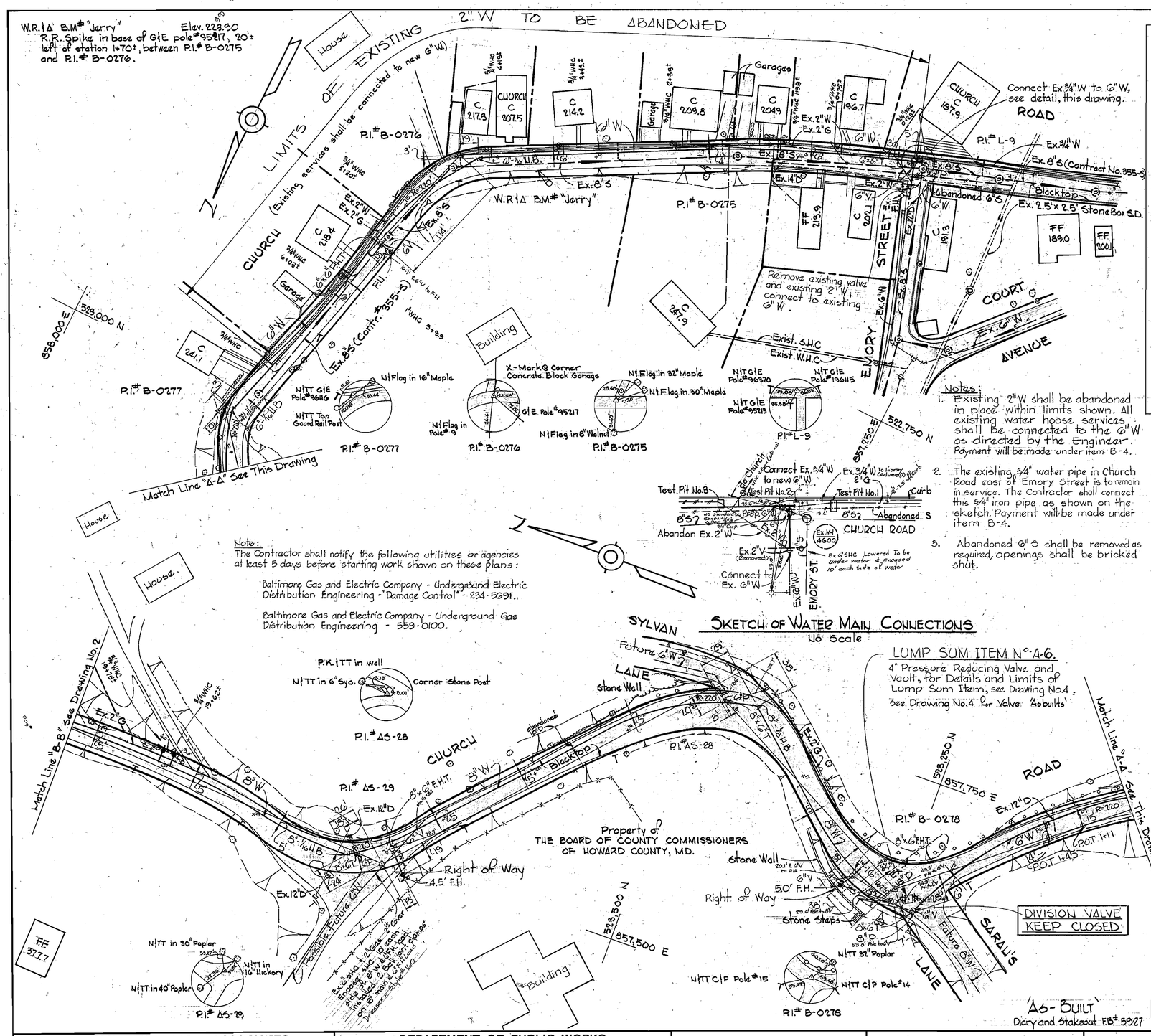


Notes:

1. Existing 2" W shall be abandoned in place within limits shown. All existing water house services shall be connected to the 6" W as directed by the Engineer. Payment will be made under item B-4.
2. The existing 3/4" water pipe in Church Road east of Emory Street is to remain in service. The Contractor shall connect this 3/4" iron pipe as shown on the sketch. Payment will be made under item B-4.
3. Abandoned 6" S shall be removed as required, openings shall be bricked shut.

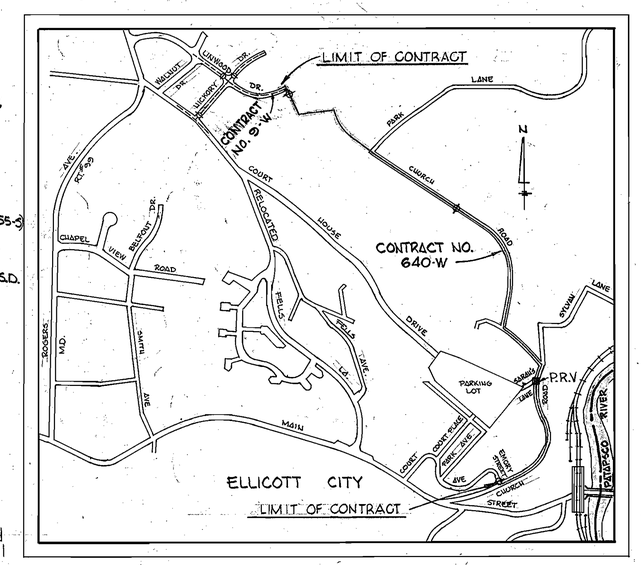
Sketch of Water Main Connections

No Scale

Lump Sum Item No. A-6.

4" Pressure Reducing Valve and Vault, for Details and Limits of Lump Sum Item, see Drawing No. 4.
See Drawing No. 4 for Valve 'As-builts'

'As-Built'
Diary and Stakeout F.B.# 5927



Vicinity Map

Scale: 1" = 600'

General Notes

1. 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.
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. Clear all utilities by a minimum of 6"; clear all poles by 2'-0" minimum or tunnel as required.
5. All water mains shall have a minimum of 3½' cover unless otherwise noted.
6. Profile stations may have to be adjusted as required to conform to plan dimensions.
7. For all standard details see standards bound in Specifications.
8. Block all fittings with concrete, except as otherwise noted, see standards bound in Specification.
9. All fire hydrants shall be strapped to the tee and shall be buttressed with concrete in accordance with standard details.
10. Bury line elevation on fire hydrants shall be set the same as edge of paving, top of curb, or as directed by the Engineer in the field. Soil around fire hydrants to be compacted in accordance with Section 5.15 of the Standard Specifications.
11. Cost of strapping fire hydrants and valves to tees shall be included in the unit price bid for furnishing and installing fire hydrants.
12. All horizontal and vertical controls are based on Maryland State Datum.
13. Trees shall be protected from damage to maximum extent. Trees located within the construction strip are not to be removed or damaged by the Contractor.
14. Water services shall be for inside meter settings. See Standard Details.

QUANTITIES		
ITEM	QUANTITY	'AS-BUILT'
6" W	1,220 L.F.	1223 LF
8" W	3,840 L.F.	3855 LF
F.H.	8	8

STATE OF MARYLAND — KENNETH A. McCORD — 1974 — PROFESSIONAL REGISTERED ENGINEER & LAND SURVEYOR

Church Road
Project No. W4-8041
Contract No. 640-W

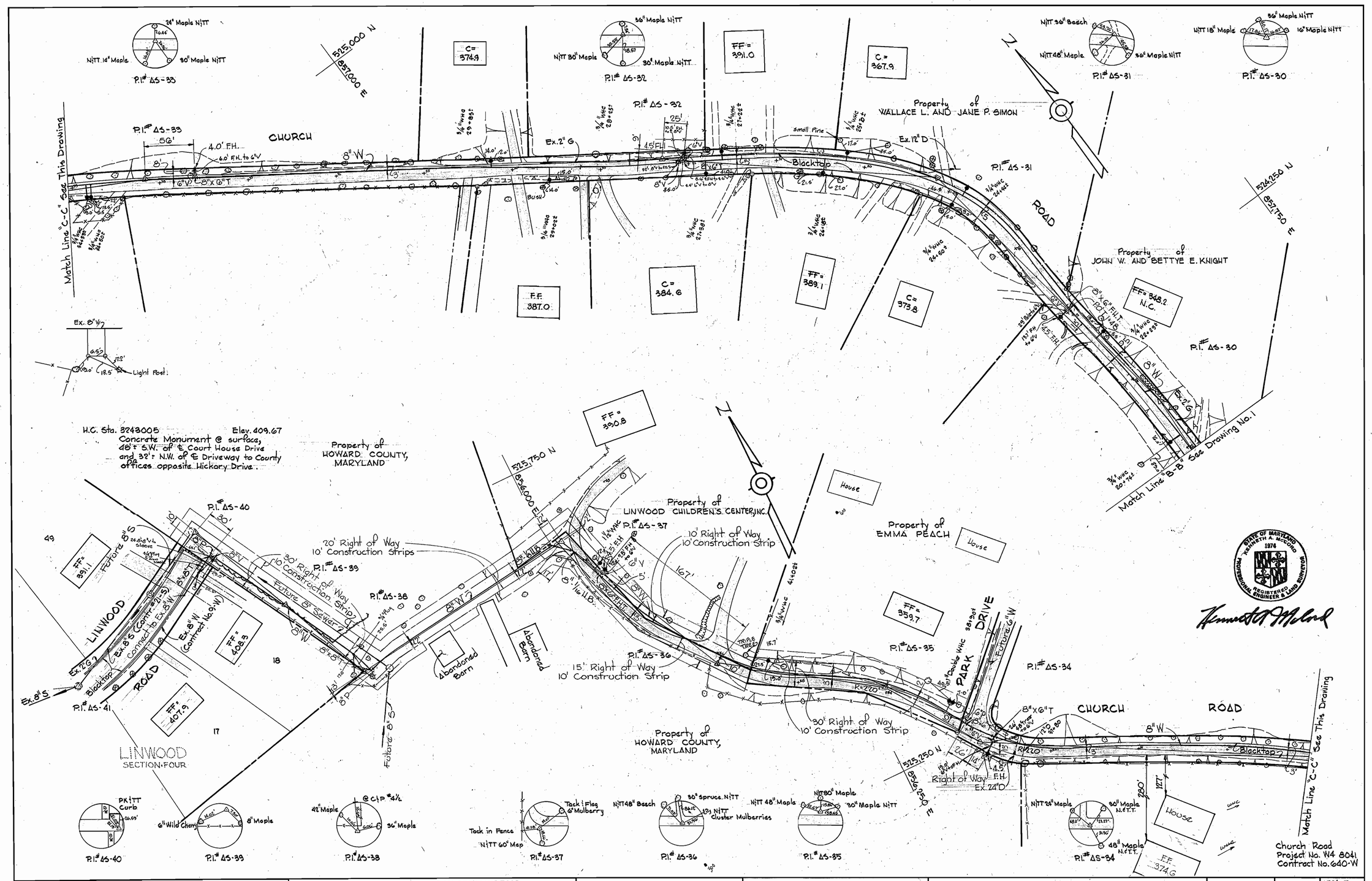
WHITMAN, REQUARDT & ASSOCIATES ENGINEERS 1304 ST. PAUL ST. BALTIMORE, MARYLAND	DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND — DIRECTOR OF PUBLIC WORKS — DATE 3-5-76 — CHIEF-BUREAU OF ENGINEERING — DATE 3-3-76	CONTRACT NO. 640-W PROJECT NO. W4-8041	PLAN OF WATER MAIN	ELECTION DISTRICT ELLICOTT CITY NO. 2	DRAWING NO. 1 OF 4	SCALE 1" = 50'	522-6 / 522-7 / 523-6 / 523-7

W. O. 6935-2

AS BUILT — October 10, 1977 — F.B.# 4260

W S 640 W/1

BRUNING 44510 16392



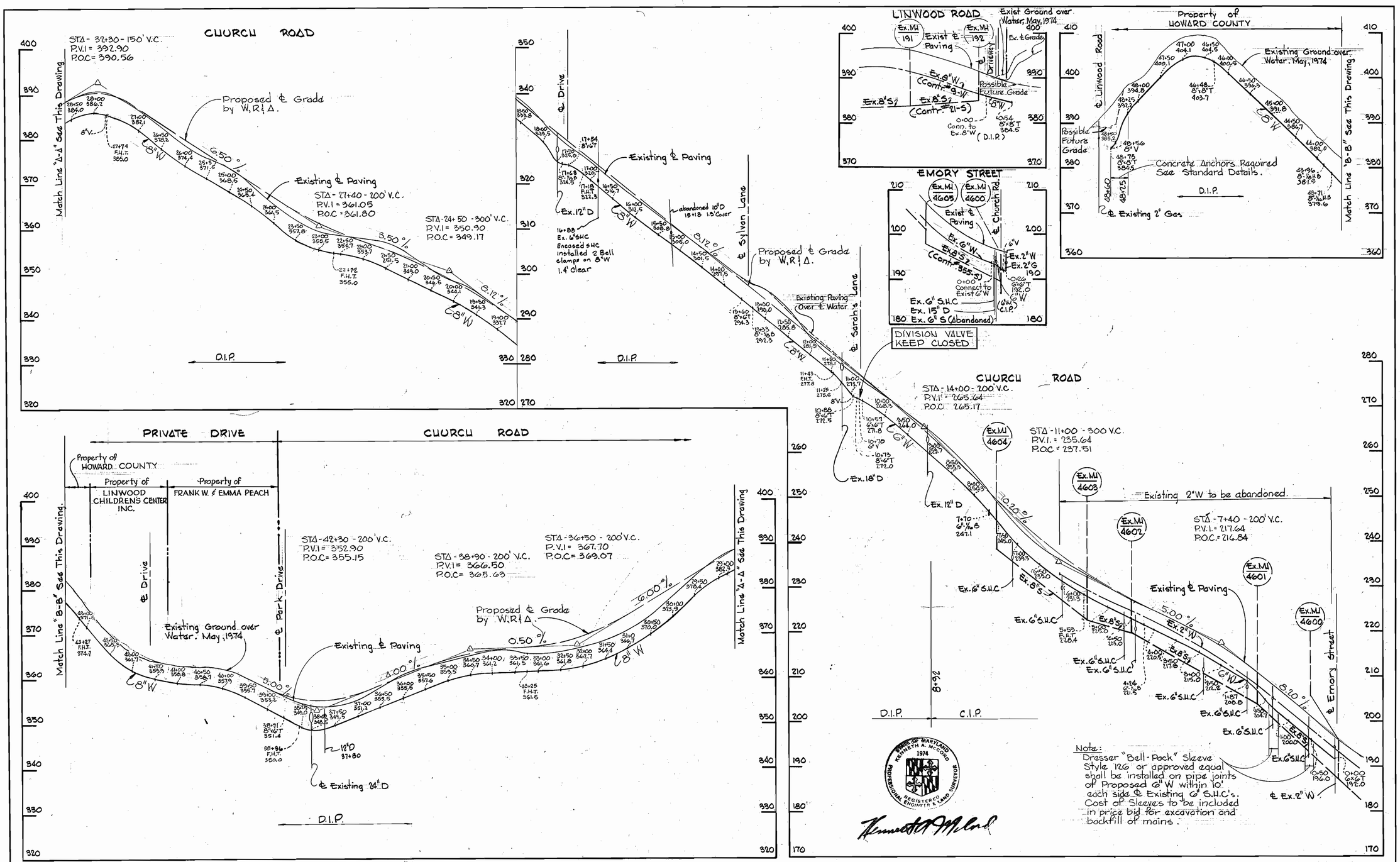
WHITMAN, REQUARDT & ASSOCIATES ENGINEERS 1304 ST. PAUL ST. BALTIMORE, MARYLAND	DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND — DIRECTOR OF PUBLIC WORKS — DATE 3-5-76 — CHIEF-BUREAU OF ENGINEERING — DATE 3-3-76	CONTRACT NO. 640-W PROJECT NO. W4-8041	PLAN OF WATER MAIN	ELECTION DISTRICT ELLICOTT CITY NO.2	DRAWING NO. 2 OF 4	SCALE 1"=50'	524-7 / 524-6 / 525-6 / 525-5

W. O. 6985-2

AS BUILT October 10, 1977 F.B.# 4260 F.B.# 5634

W.S. 640 W/2

BRUNING 44-510 18392



Church Road
Project No. W4 8041
Contract No. 640-W

WHITMAN, REQUARDT & ASSOCIATES ENGINEERS 1304 ST. PAUL ST. BALTIMORE, MARYLAND	DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND — DIRECTOR OF PUBLIC WORKS — DATE 3-5-76 — CHIEF-BUREAU OF ENGINEERING — DATE 3-3-76	CONTRACT NO. 640-W PROJECT NO. W4-8041	PROFILES OF WATER MAINS	ELECTION DISTRICT ELLICOTT CITY NO. 2	DRAWING NO. 3 OF 4	SCALE H: 1"=100' V: 1"=10'

W. O. 6935-2

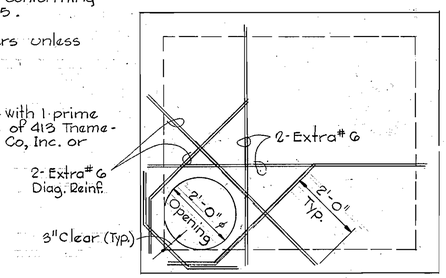
AS BUILT October 10, 1977

WS 640 13

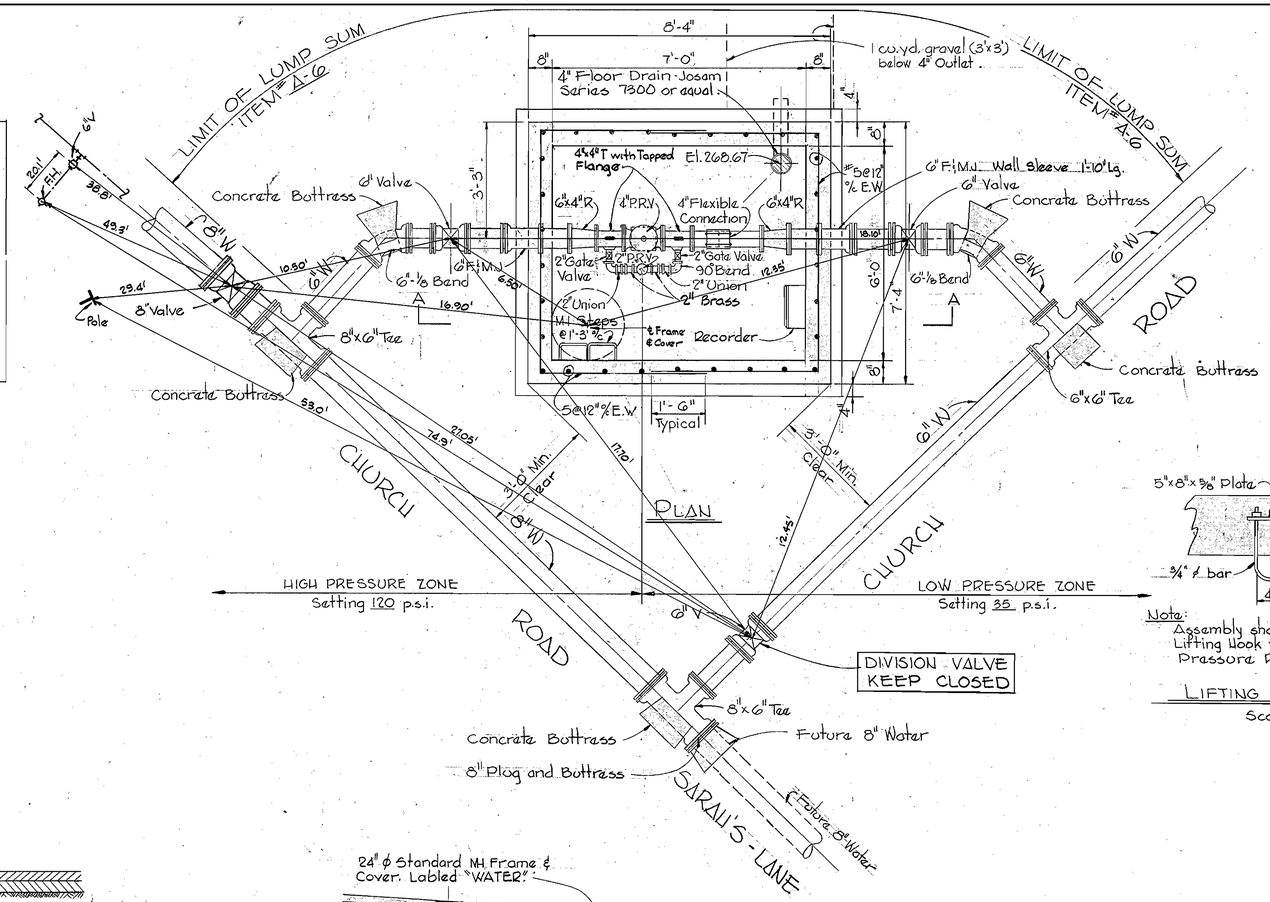
BRUNING 44-310 18392

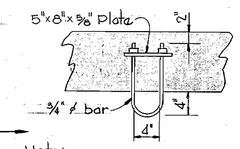
GENERAL NOTES

1. All concrete shall be Class 'A', 3500 p.s.i. at 28 days.
2. Reinforcing steel shall be intermediate grade (ASTM A-15) with deformations conforming to ASTM Specifications A-305.
3. All bar laps shall be 30 diameters unless otherwise noted.
4. 2" W is Brass.
5. All exposed steel shall be painted with 1 prime coat of 77 Chem-Prime & 2 coats of 413 Theme-Tar as manufactured by Tnemec Co, Inc. or approved equal.



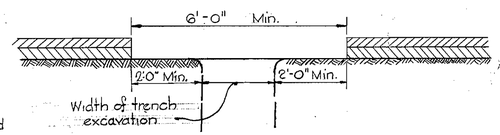
PLAN - TOP SLAB



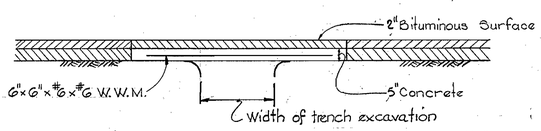


Note:
Assembly shall be hot dip galvanized. Lifting Hook to be centered over Pressure Reducing Valve.

LIFTING HOOK DETAIL
Scale: 1" = 1'-0"



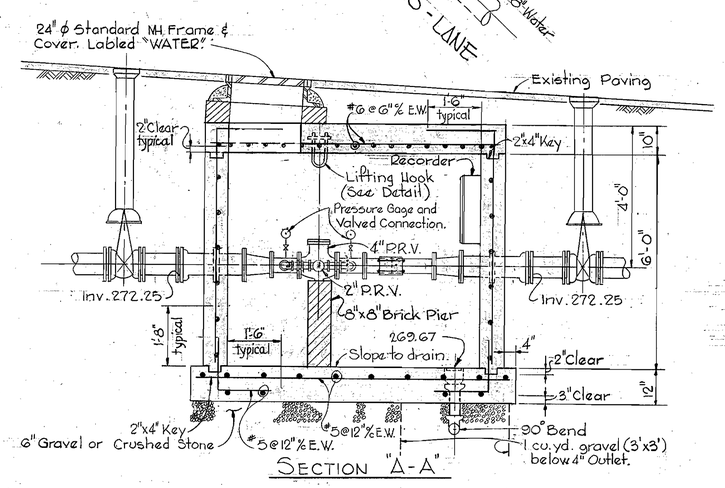
Note:
Backfill in trench shall be material removed therefrom or better and shall be thoroughly compacted in 6" layers by tamping or by some other approved method before opening is paved. No excavations or cave-ins under existing surfacing will be permitted and no bellying of the trenchs will be allowed. Sheeting or shoring will be used when required by depth of trench or type of material.
All concrete shall be Class "A" made with high early strength cement.



Note:
All exposed edges of existing bituminous surface course and surface of concrete base shall be primed with a material satisfactory to the Engineer before the bituminous mixture is placed.

MACADAM ROADWAY

PAVING REPLACEMENT DETAIL
Scale: 1/2" = 1'-0"



SECTION "A-A"

Item	Manufacturer
4" PRV –	Golden Anderson (45 D)
2" PRV –	Golden Anderson (43 D)
Recorder –	Fischer and Porter (Type 1102 P)

4" PRESSURE REDUCING VALVE VAULT
Scale: 1/2" = 1'-0"

STATE OF MARYLAND KENNETH A. McCORD 1974 REGISTERED PROFESSIONAL ENGINEER & LAND SURVEYOR

Church Road
Project No. W4-8041
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WHITMAN, REQUARDT & ASSOCIATES ENGINEERS 1304 ST. PAUL ST. BALTIMORE, MARYLAND	DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND	CONTRACT NO. 640-W PROJECT NO. W4-8041	DETAILS	ELECTION DISTRICT ELLICOTT CITY NO. 2	DRAWING NO. 4 OF 4	SCALE AS SHOWN
	T. J. Reagh 3-5-76 DIRECTOR OF PUBLIC WORKS — DATE; W. O. Talbert 3-3-76 CHIEF-BUREAU OF ENGINEERING — DATE					

W.O. 6935-2

AS BUILT October 10, 1977

WS 640 W/4

BRUNING 44510 18392