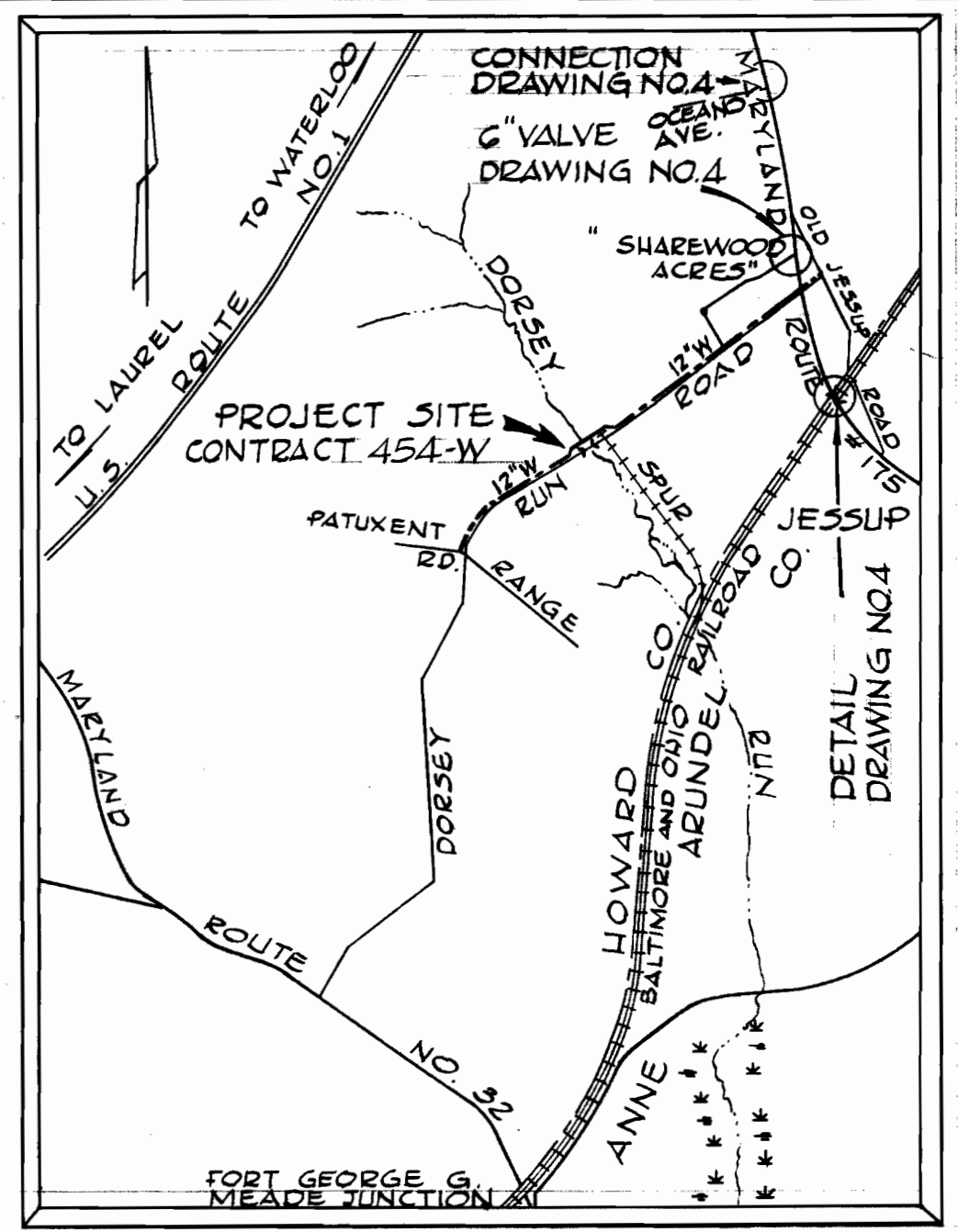


REMOVE EXISTING FIRE HYDRANT AND DELIVER TO HOWARD CO. DEPT. OF PUBLIC WORKS STOREYARD IN VICINITY OF ROGERS AVE. AND U.S. ROUTE 40. PAYMENT TO BE INCLUDED IN UNIT PRICE BID FOR FURNISHING & LAYING WATER MAINS. PLUG EX. TEE.

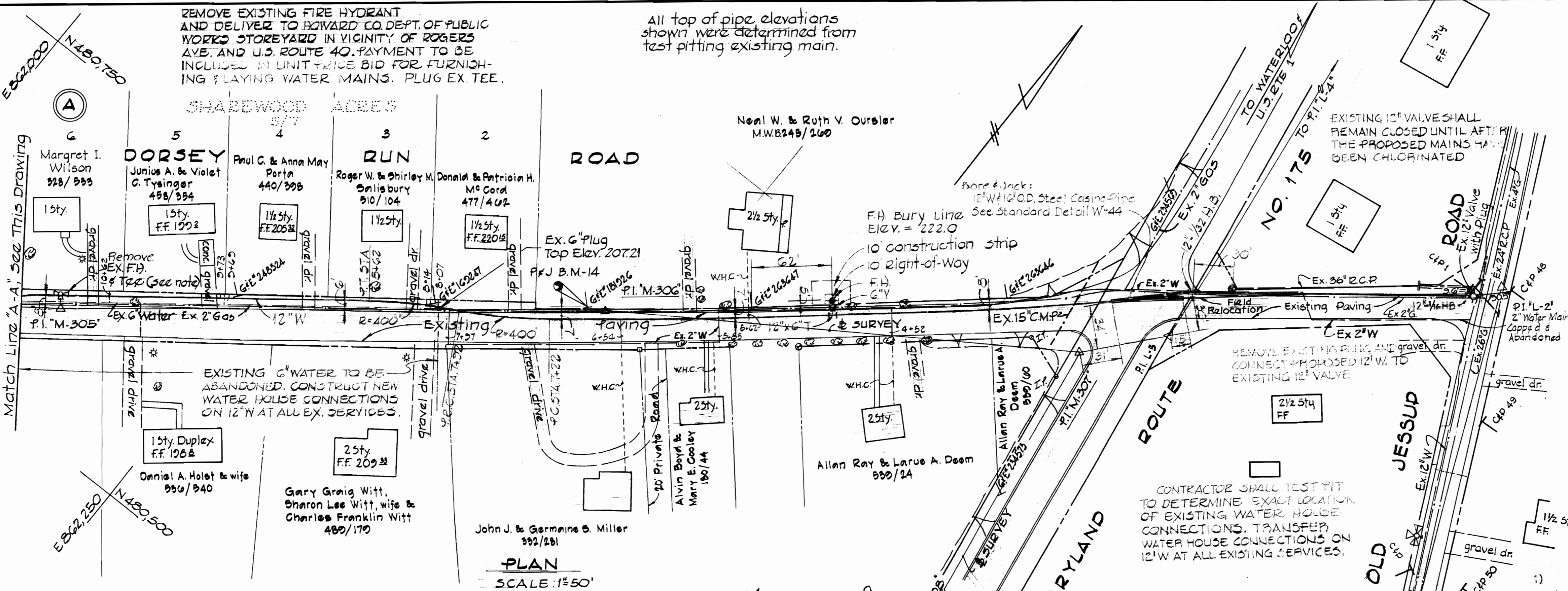
All top of pipe elevations shown were determined from test pitting existing main.



VICINITY MAP SCALE: 1"=2000'

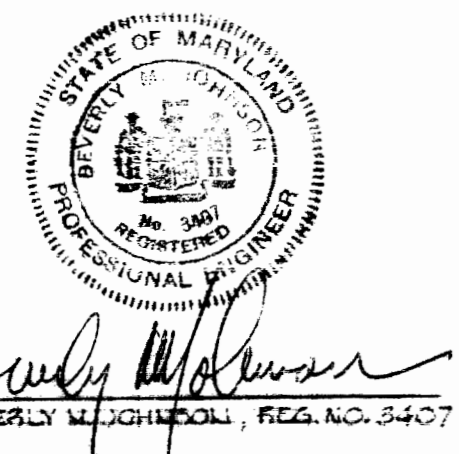
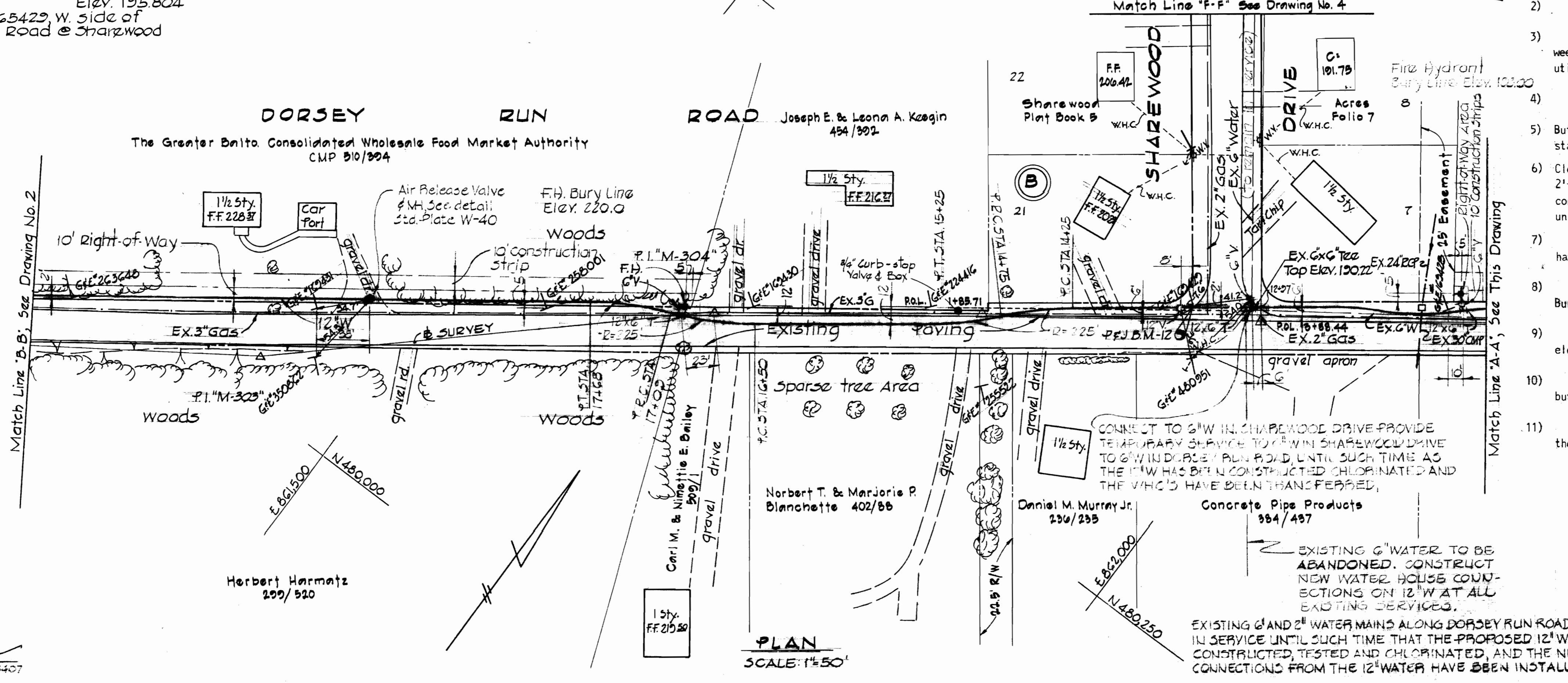
GENERAL NOTES

- 1) Approximate locations of existing utilities are shown. The contractor shall take all necessary precautions to protect the existing utilities and to maintain uninterrupted service. Any damage incurred due to contractor's operations shall be repaired immediately at the contractor's expense.
- 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 the vicinity of utilities.
- 4) See standard details bound in specifications.
- 5) Buttress or anchor all water main fittings with concrete. See standard details bound in specifications.
- 6) Clear all utilities by a minimum of 6", clear all utility poles by 2'-0" minimum or tunnel as required. Any costs incurred to the contractor for tunneling or bracing at poles shall be included in unit prices bid for excavation.
- 7) All water mains to be Cast Iron Pipe or Ductile Iron Pipe and have a minimum of 3.5' cover.
- 8) All horizontal & vertical control is based on Maryland State Bureau Control Surveys system.
- 9) Bury line elevations on fire hydrants shall be set to the elevations shown on the Plan.
- 10) All fire hydrants shall be strapped to the tee and shall be buttressed with concrete in accordance with standard details.
- 11) Cost of strapping fire hydrants and valves to be included in the unit price bid for furnishing and installing fire hydrants.



BENCH MARKS

- PFJ B.M.-14 ELEV. 222.039
2" R. spike in GFE pole #181926
- PFJ B.M.-12 ELEV. 195.804
GFE pole #163429, W. side of Dorsey Run Road @ Sharwood Drive.



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

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND 10-20-72 DATE

CONTRACT NO. 454-W

PLAN OF WATER MAINS

DORSEY RUN ROAD ELECTION DISTRICT GUILFORD NO.6

DRAWING NO. 1 OF 7

SCALE AS SHOWN

Pos. Sheets 8,746

454-W/1 WS

BENCH MARK

P.F.J. B.M. #4 Elev. 211.740
 R. D. Spike set in C.F.# 26,
 G.F.E.# 263656, S. Side Dorsey
 Run Road.

Patapsco Prop. Inc.
 477/590

Patapsco Prop. Inc.
 477/590

Joseph J. Hock, Inc.
 487/536

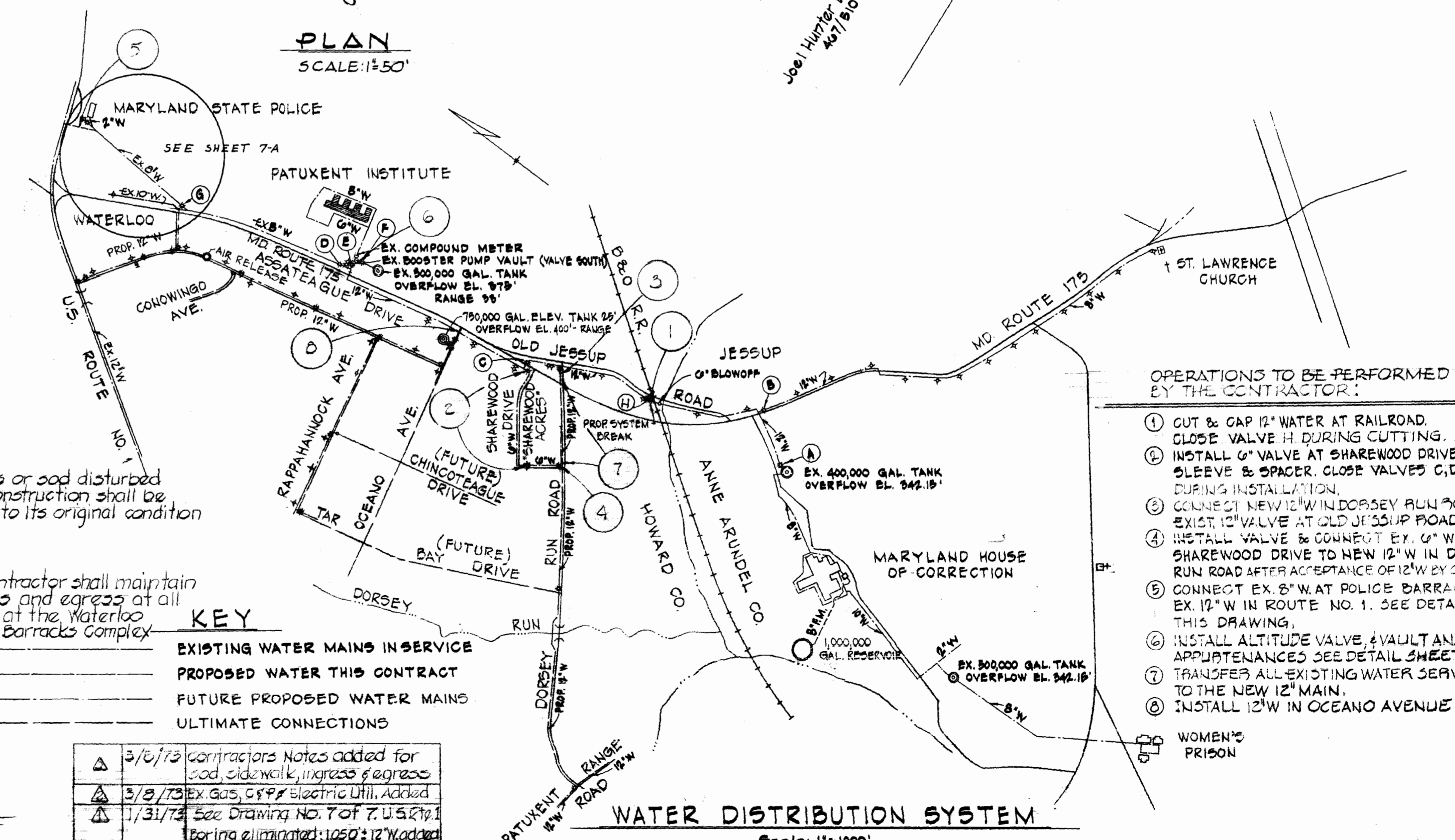
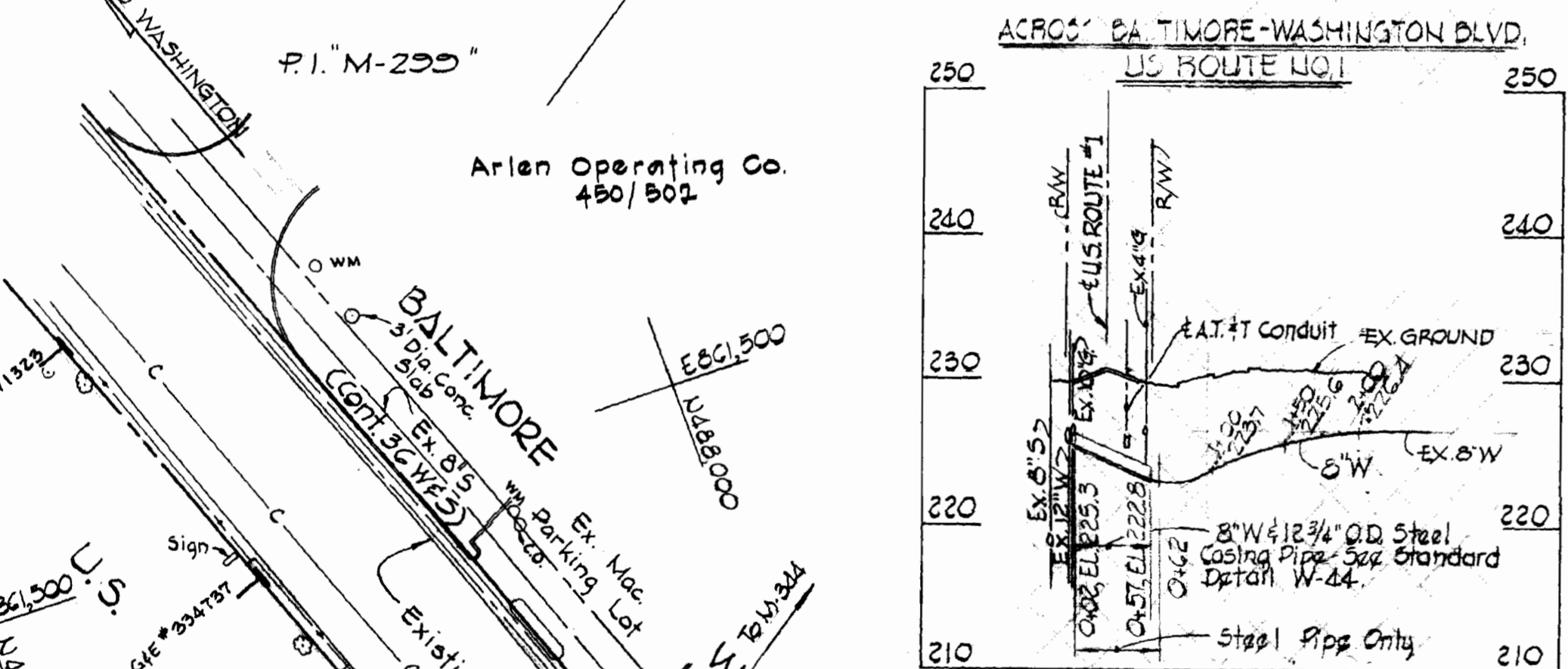
Joseph J. Hock, Inc.
 556/47

Patuxent Park Development Corp.
 374/175

Earth & Gravel
 Field Area

Woods

Woods



OPERATIONS TO BE PERFORMED BY THE CONTRACTOR:

- ① CUT & CAP 12\"/>

KEY
 ——— EXISTING WATER MAINS IN SERVICE
 ——— PROPOSED WATER THIS CONTRACT
 - - - - - FUTURE PROPOSED WATER MAINS
 - - - - - ULTIMATE CONNECTIONS

REV.	DATE	REMARKS
1	3/15/73	Contractors Notes added for sod, sidewalk, ingress & egress
2	3/15/73	Ex. Gas, G.P.P. Electric Util. Added
3	11/31/73	See Drawing No. 7 of 7 U.S.R.1 Boring eliminated; 1050' 12\"/>

NOTE:
 TEST PIT FOR EXISTING A.T.#1 CABLES, OR CONDUIT CONTRACTOR SHALL NOTIFY THE A.T.#1 (205-3555) PRIOR TO THE TEST PIT OPERATION.

Note:
 Existing 10\"/>

Note:
 Sidewalks or sod disturbed during construction shall be replaced to its original condition

Note:
 The contractor shall maintain ingress and egress at all times at the Waterloo Police Barracks Complex



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

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND
 10.20.72
 DATE
 W.O. Filbert
 CHIEF - BUREAU OF ENGINEERING

CONTRACT NO. 454-W

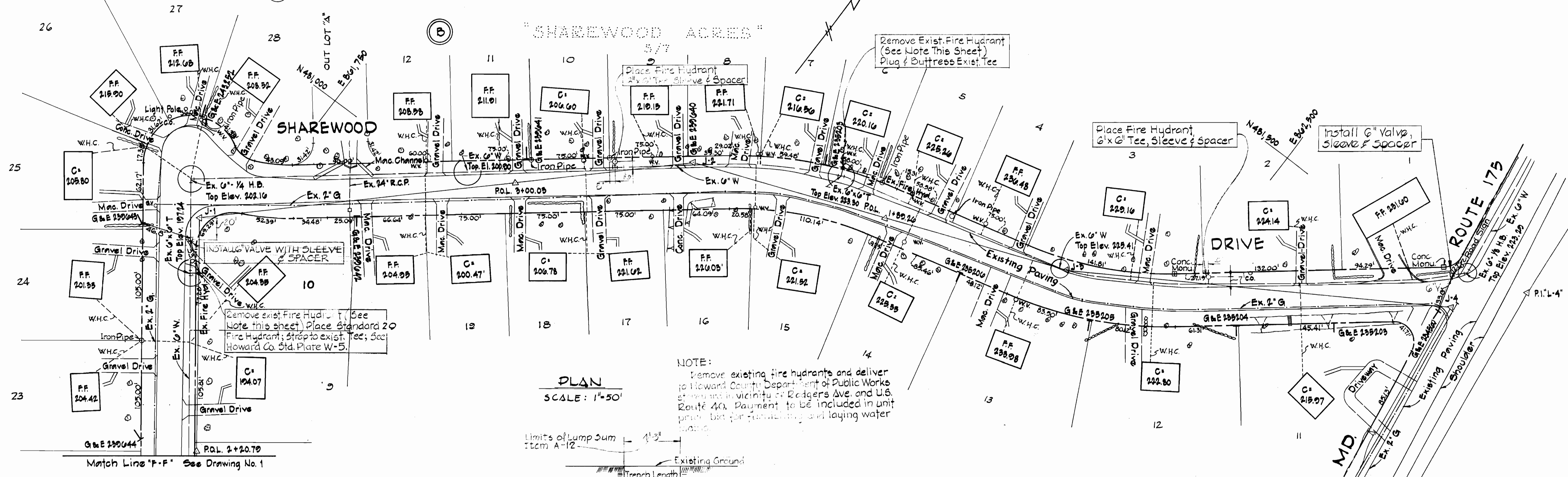
PLAN AND DETAILS
 OF WATER MAINS

DORSEY RUN ROAD
 ELECTION DISTRICT GUILFORD NO. 6

DRAWING
 NO. 3
 AS

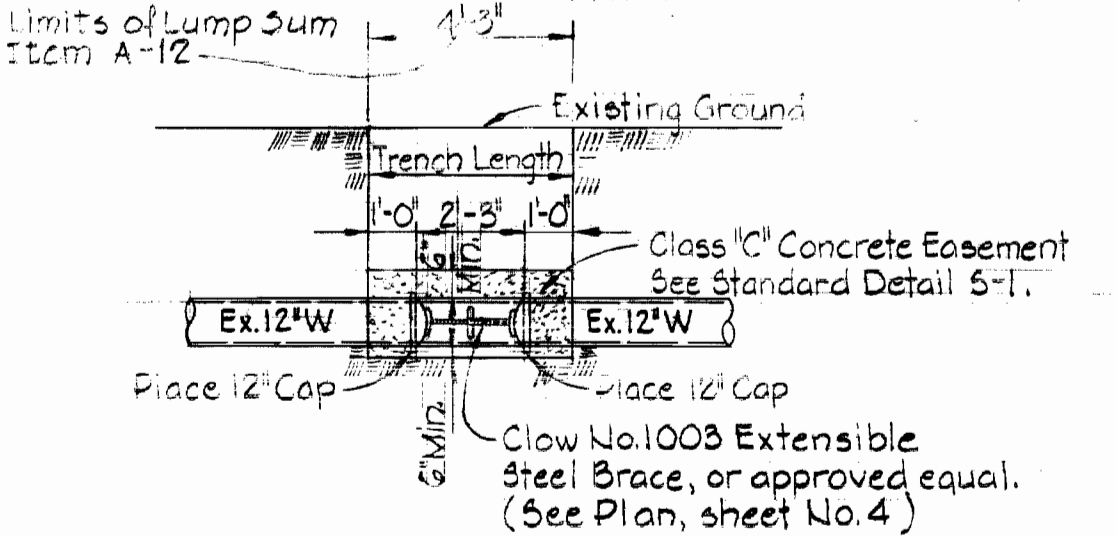
WS 454-W/3

Note: All top of pipe elevations shown were determined from test pitting existing main.
 ○ denotes Test Pit

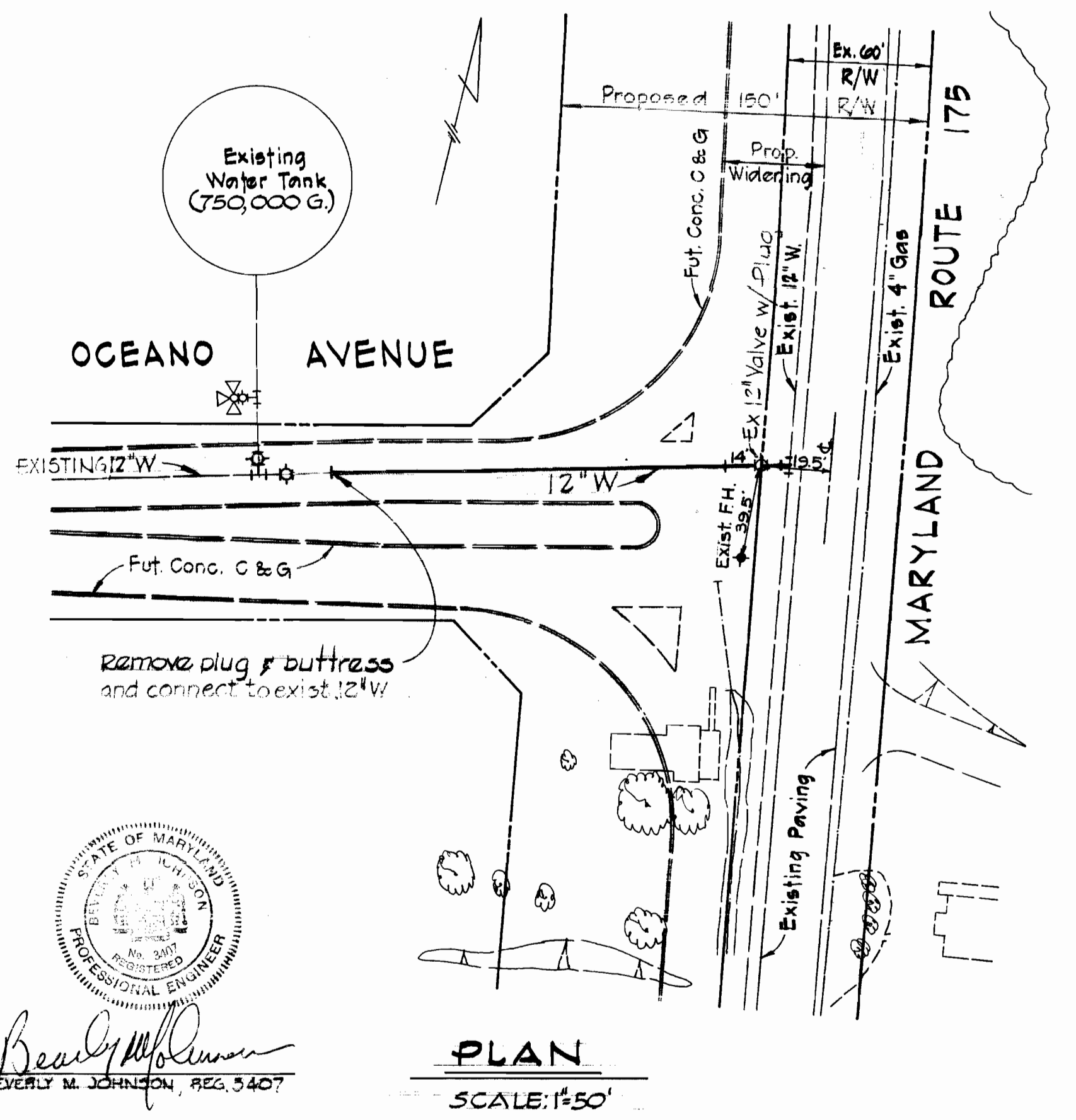


PLAN
 SCALE: 1"=50'

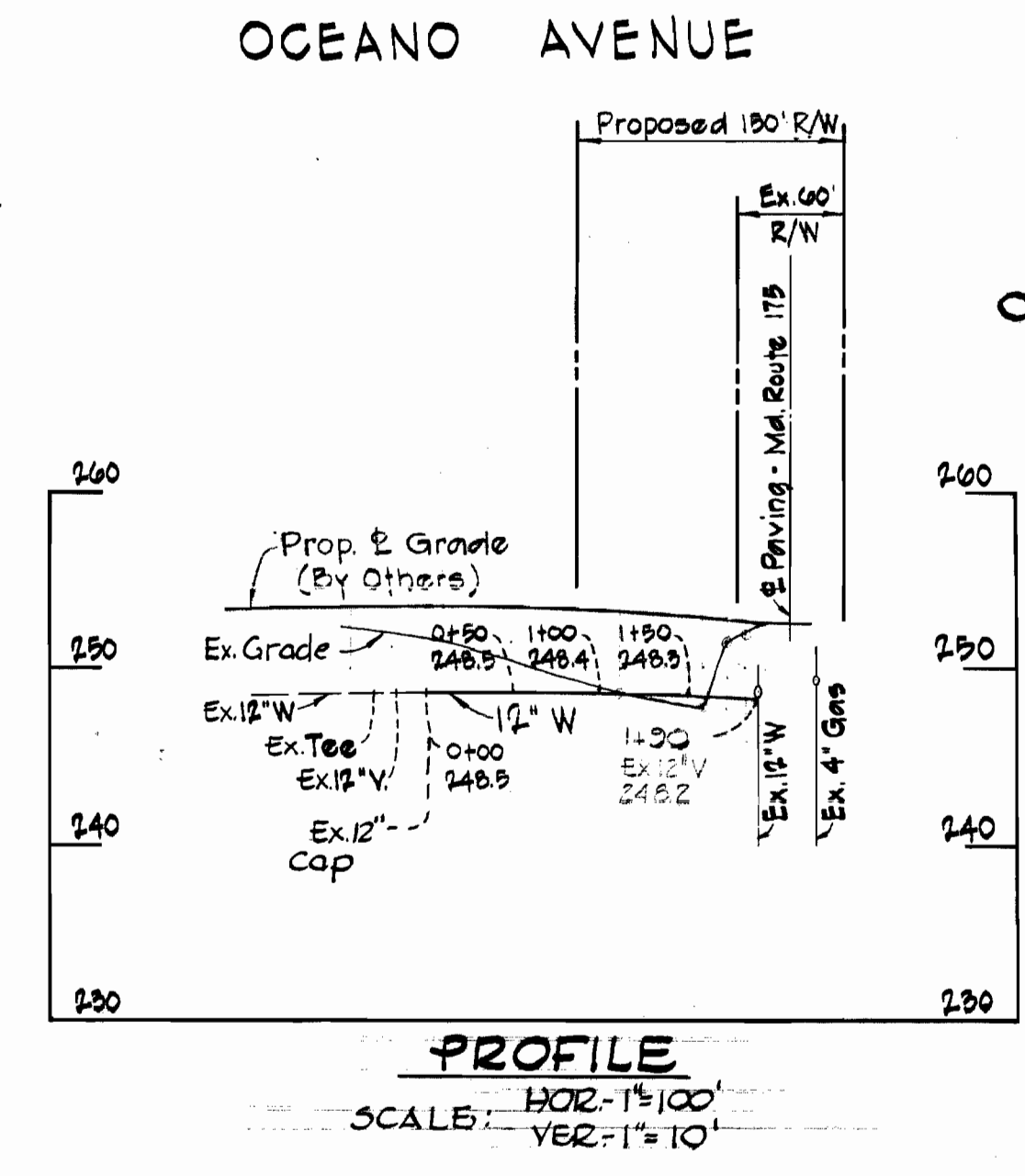
NOTE: Remove existing fire hydrants and deliver to Howard County Department of Public Works in vicinity of Rodgers Ave. and U.S. Route 40. Payment to be included in unit price bid for furnishing and laying water main.



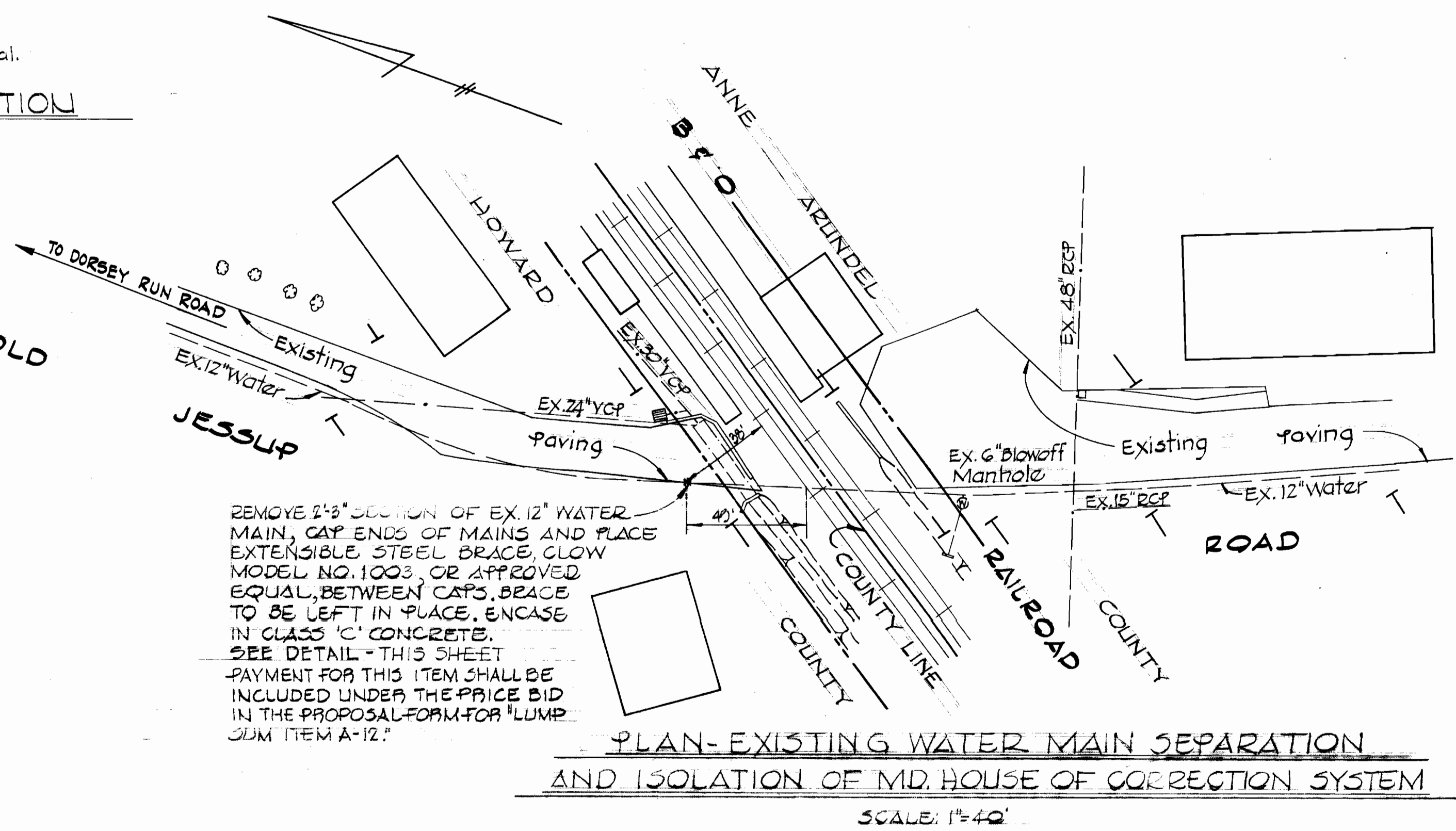
DETAIL - EXISTING WATER MAIN SEPARATION
 Scale: 1/4"=1'-0"



PLAN
 SCALE: 1"=50'



PROFILE
 SCALE: HORZ-1"=100'
 VERT-1"=10'

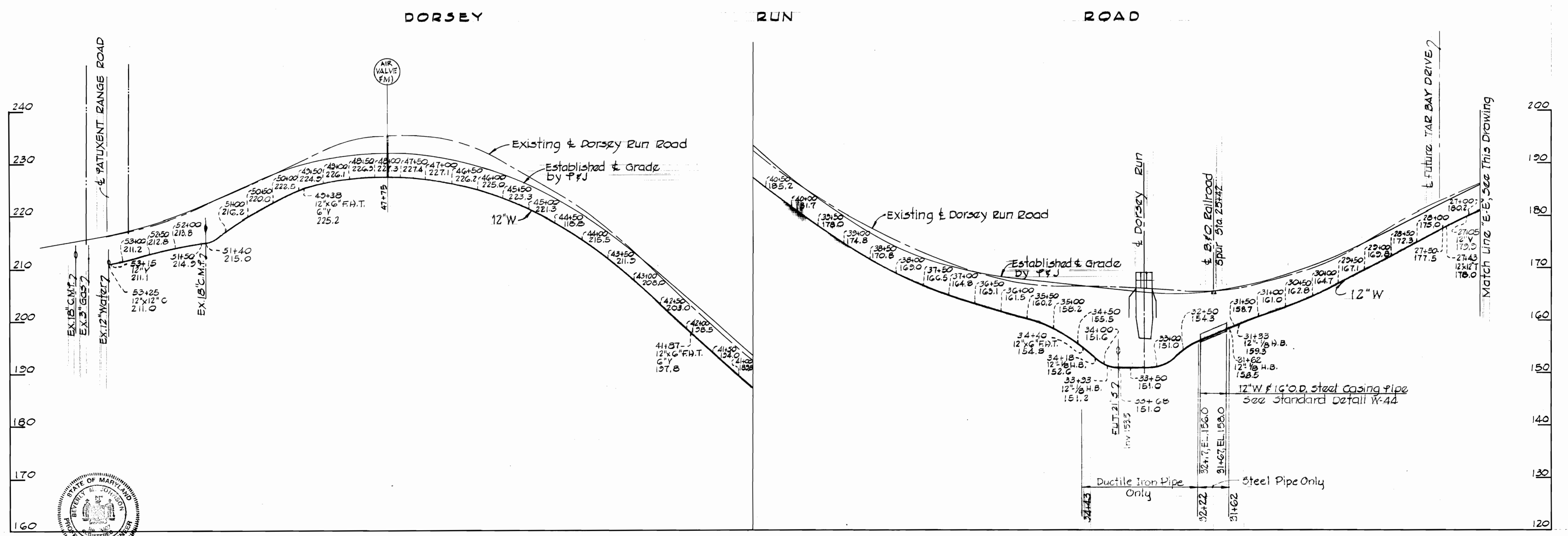
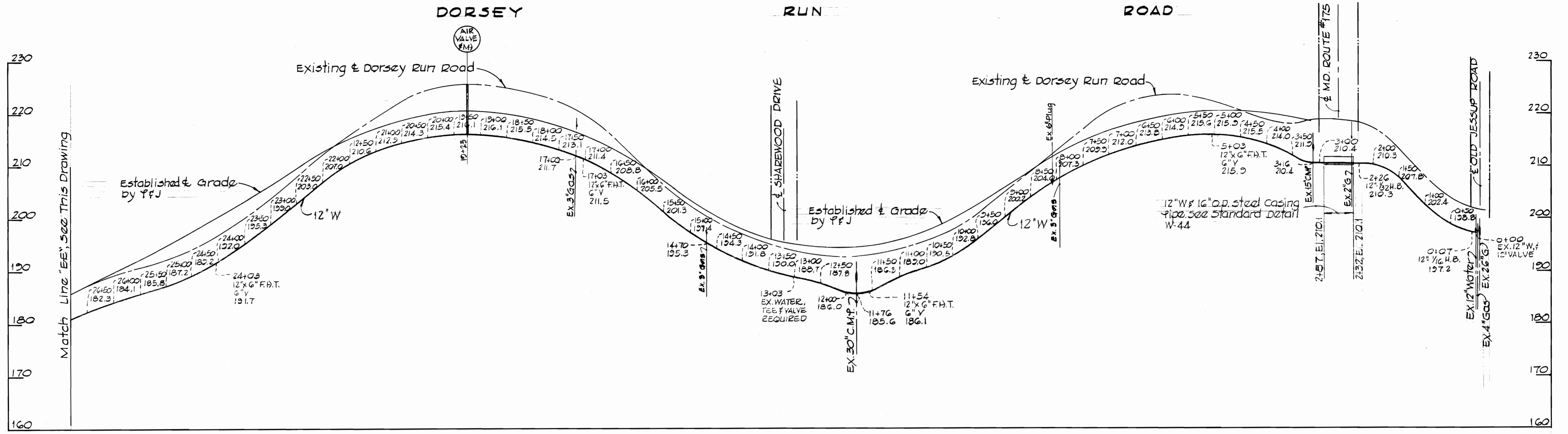


PLAN-EXISTING WATER MAIN SEPARATION AND ISOLATION OF MD. HOUSE OF CORRECTION SYSTEM
 SCALE: 1"=40'

Professional Engineer Seal for Beverly M. Johnson, Reg. 3407, State of Maryland.

WS 454-W/4

PURDUM & JESCHKE ENGINEERS 1023 N. CALVERT ST. BALTIMORE, MARYLAND	DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND 10.20.72 DATE	CONTRACT NO. 454-W Chief - Bureau of Water and Sewer	PLAN AND PROFILES WATER MAINS	DORSEY RUN ROAD ELECTION DISTRICT GUILFORD NO. 6	DRAWING NO. 4 OF 7 SCALE AS SHOWN
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WS 454-W/5

Beverly M. Johnson, REG. 3407

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

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND
 DATE: 10.20.72
 Chief: *W.D. Filbert*
 CHIEF - BUREAU OF ENGINEERING

CONTRACT NO. 454-W

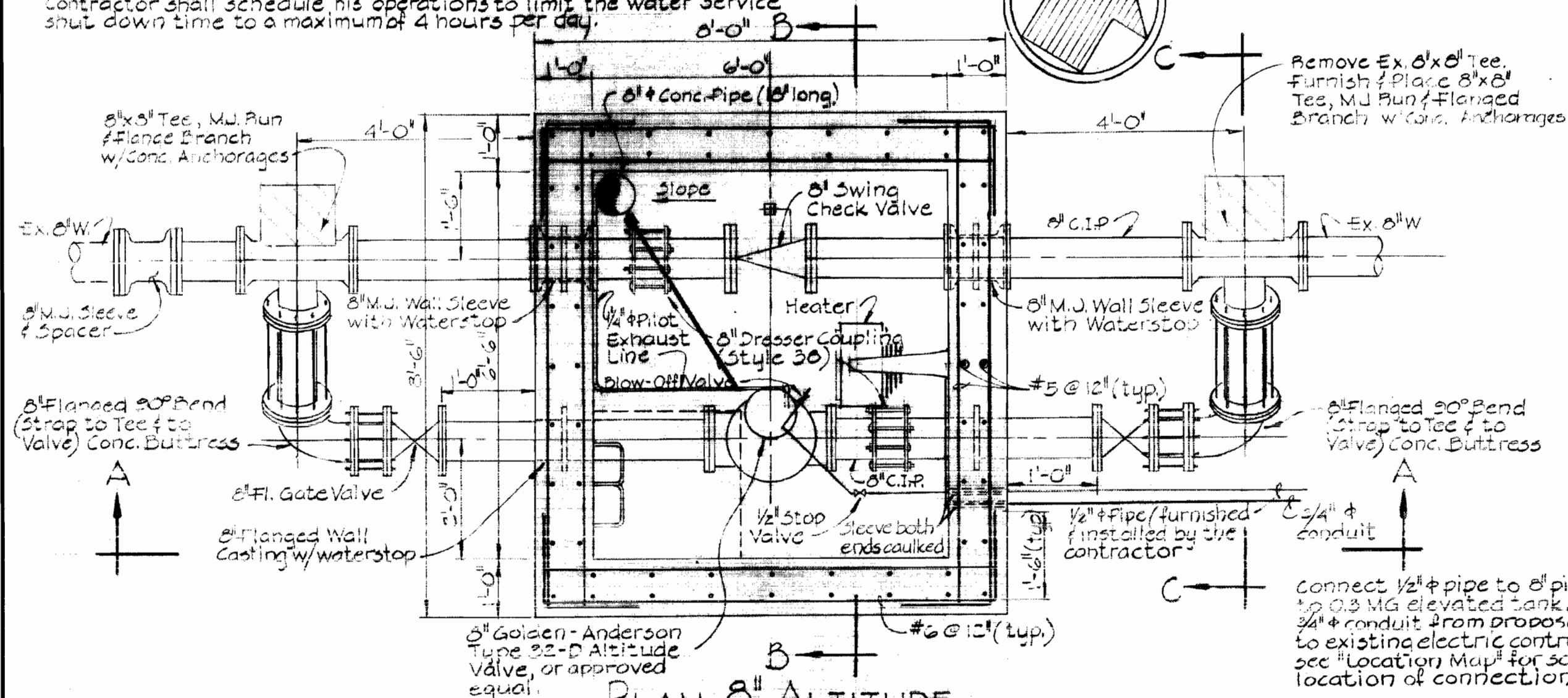
PROFILE OF WATER MAINS

DORSEY RUN ROAD
 ELECTION DISTRICT GUILFORD NO. 6

DRAWING NO. 5 OF 7

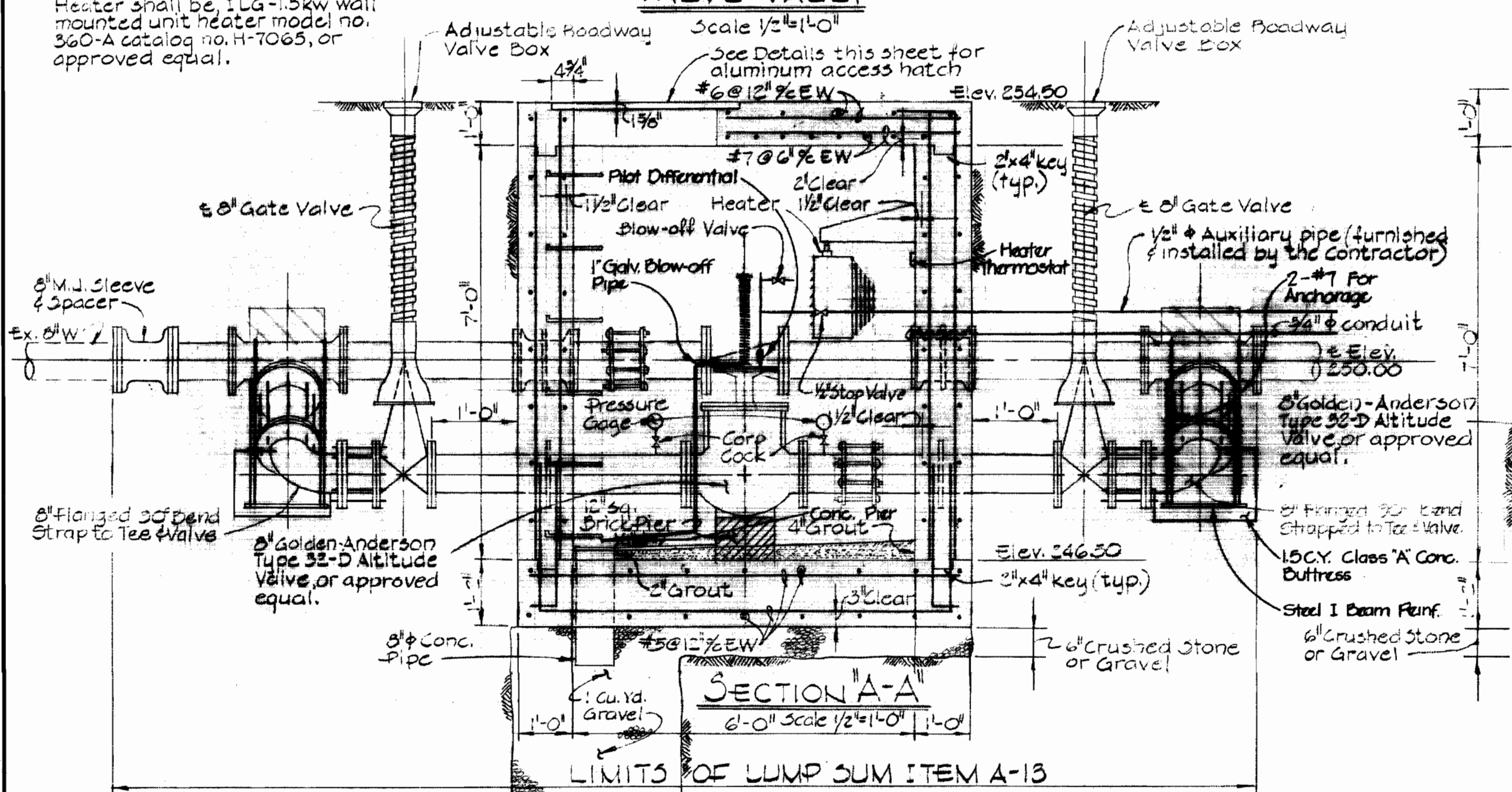
SCALE
 HOR. 1"=100'
 VERT. 1"=10'

Contractor shall notify Mr. Barnett, Stationary Engineer-Patuxent Institute, Telephone 793-3400, 48 hrs. prior to starting work on this project.
 Contractor shall schedule his operations to limit the water service shut down time to a maximum of 4 hours per day.



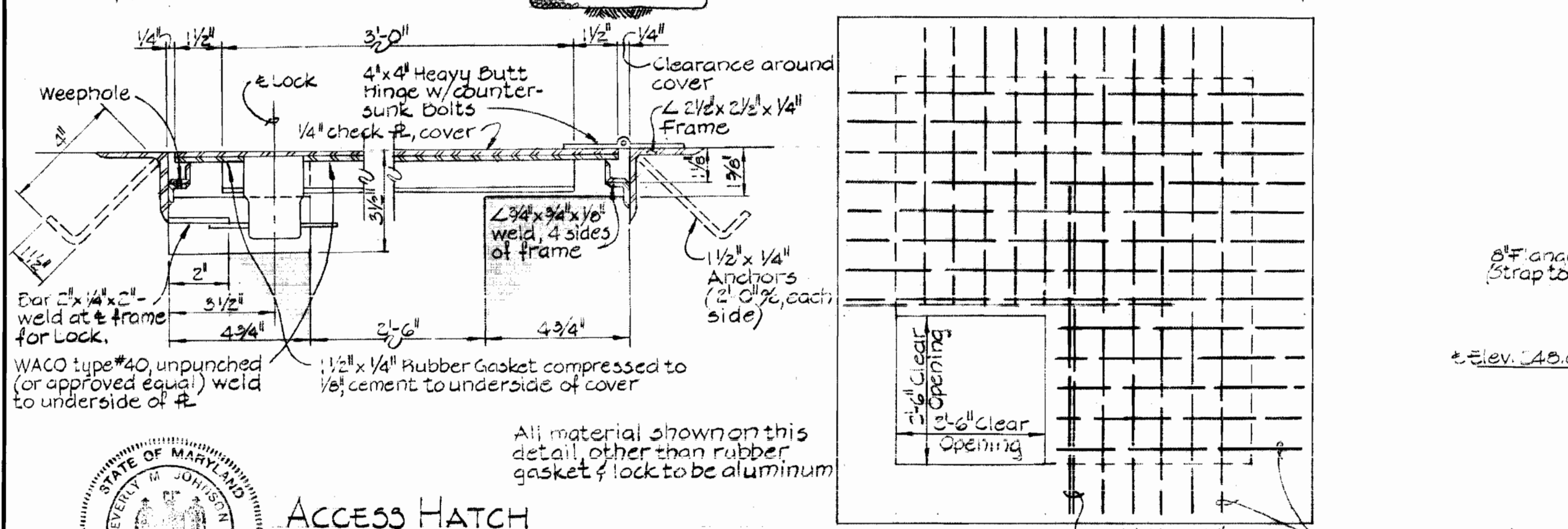
PLAN 8" ALTITUDE VALVE VAULT

Heater shall be, 1 LG-1.5kw wall mounted unit heater model no. 360-A catalog no. H-7065, or approved equal.

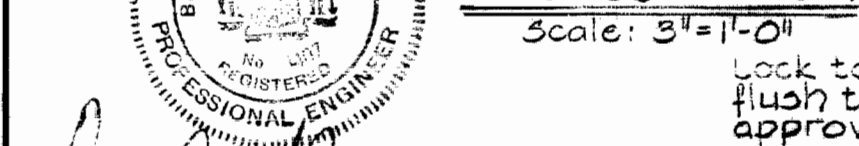


SECTION A-A

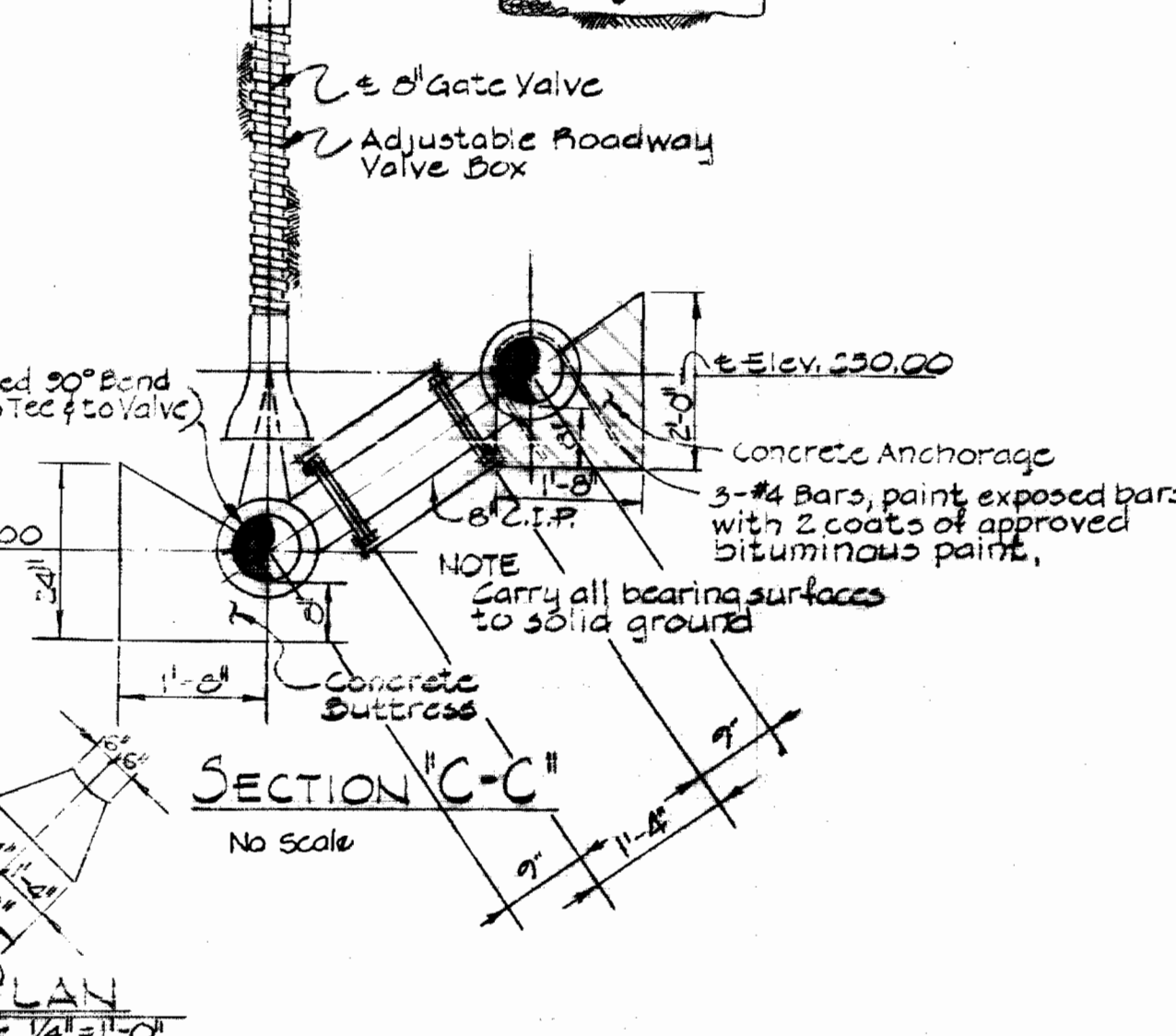
SECTION B-B



PLAN - TOP SLAB

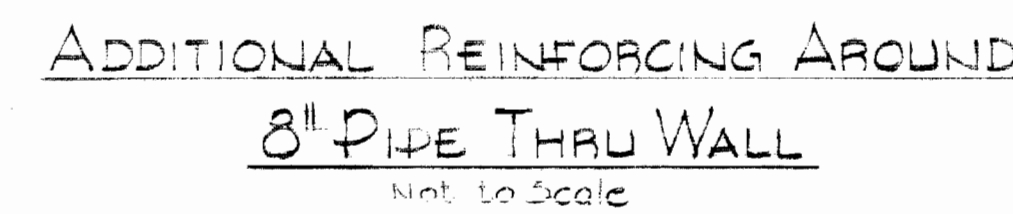


ACCESS HATCH

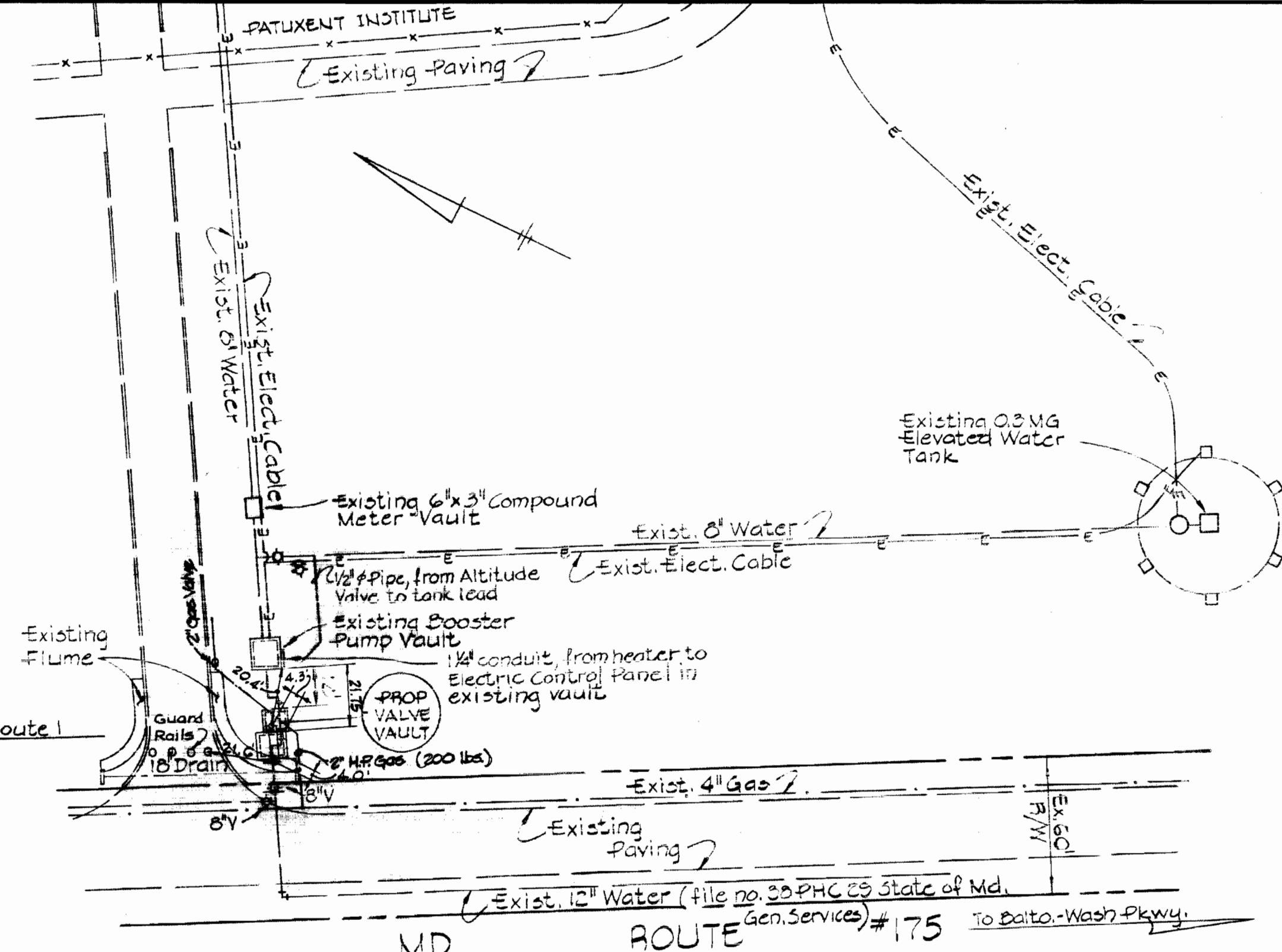


SECTION C-C

PLAN



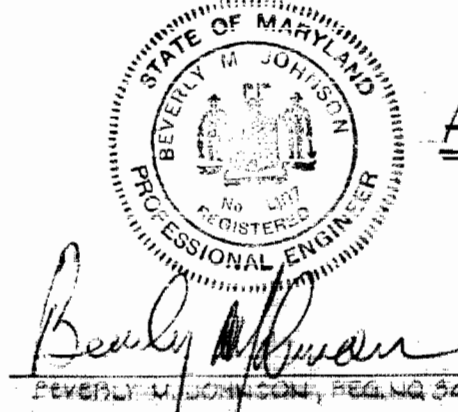
ADDITIONAL REINFORCING AROUND 8" PIPE THRU WALL



LOCATION MAP

- GENERAL NOTES
- All excavations shall be inspected by the Engineer before placing any gravel or concrete.
 - All concrete shall be Class "A" and shall contain an air entraining admixture, "Darex" or an approved equal. The amount of air entrained shall be 4.5% ± 1.5% by volume.
 - All concrete poured in temperatures above 50°F. shall contain a retarding admixture, "Plastiment" or an approved equal, to a proper amount resulting in a retardation of 2 to 3 hours.
 - All concrete poured in temperatures below 50°F. shall contain a densifying admixture "Sikacrete" or approved equal at the rate of 1 1/2 gallons per cubic yard of concrete.
 - All exposed concrete edges shall be chamfered 3/4".
 - Reinforcing steel shall conform to ASTM A-615-70, Grade 40.
 - Pressure gauge shall be Ashcroft No. 1010 or approved equal.
 - All items of mechanical equipment shall be painted as follows:
 - One shop prime coat of Inertol Rust Inhibitive Primer No. 621, or one field prime coat of Inertol Rust Penetrating Primer No. 622 or approved equal.
 - Two finish coats of Inertol Glamortex enamel No. 306 or an approved equal.
 - Outside of Valve Vault to be waterproofed with 3 coats of Inertol Standard or approved equal.
 - indicates rigid steel conduit, sized in accordance with the drawing.
 - Unless otherwise noted all conductors shall be #12 AWG, copper, THN insulation.
 - Ground all equipment in accordance with the manufacturers recommendations.
 - All conduit entrances shall be sealed and made watertight with "Insta-foam" sealer (as manufactured by Insta-foam Products, Inc.) or approved equal.
 - All nuts & bolts for flanged piping & tie rods shall be painted with 2 coats of Mobile Asphalt 35-11 paint or approved equal.

WS 454-W/6



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

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND
 DATE 11-3-72
 W. O. Piller
 CHIEF BUREAU OF ENGINEERING

CONTRACT NO. 454-W

DETAILS FOR INSTALLATION OF
 8 IN. ALTITUDE VALVE

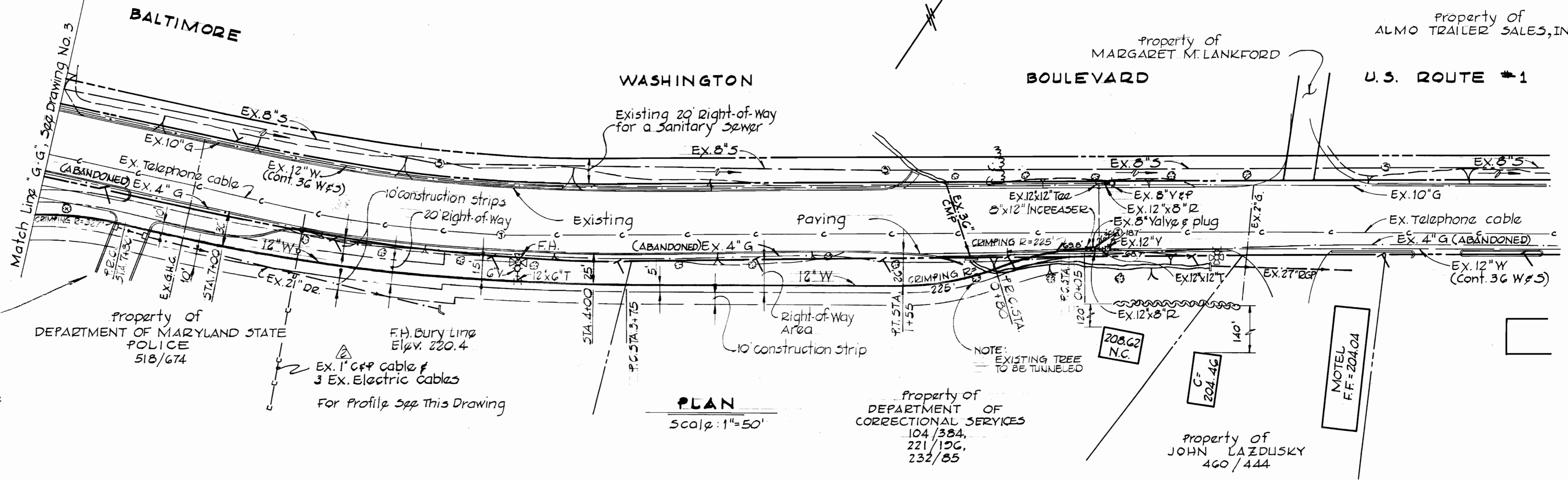
DORSEY RUN ROAD WATER MAIN PROJECT
 ELECTION DISTRICT GUILFORD NO. 6

DRAWING NO. 6 OF 7 SCALE AS SHOWN

Property of
CHARLES B. GRACE M. PLATZER
& CHARLES A. PLATZER

Property of
MARGARET M. LANKFORD

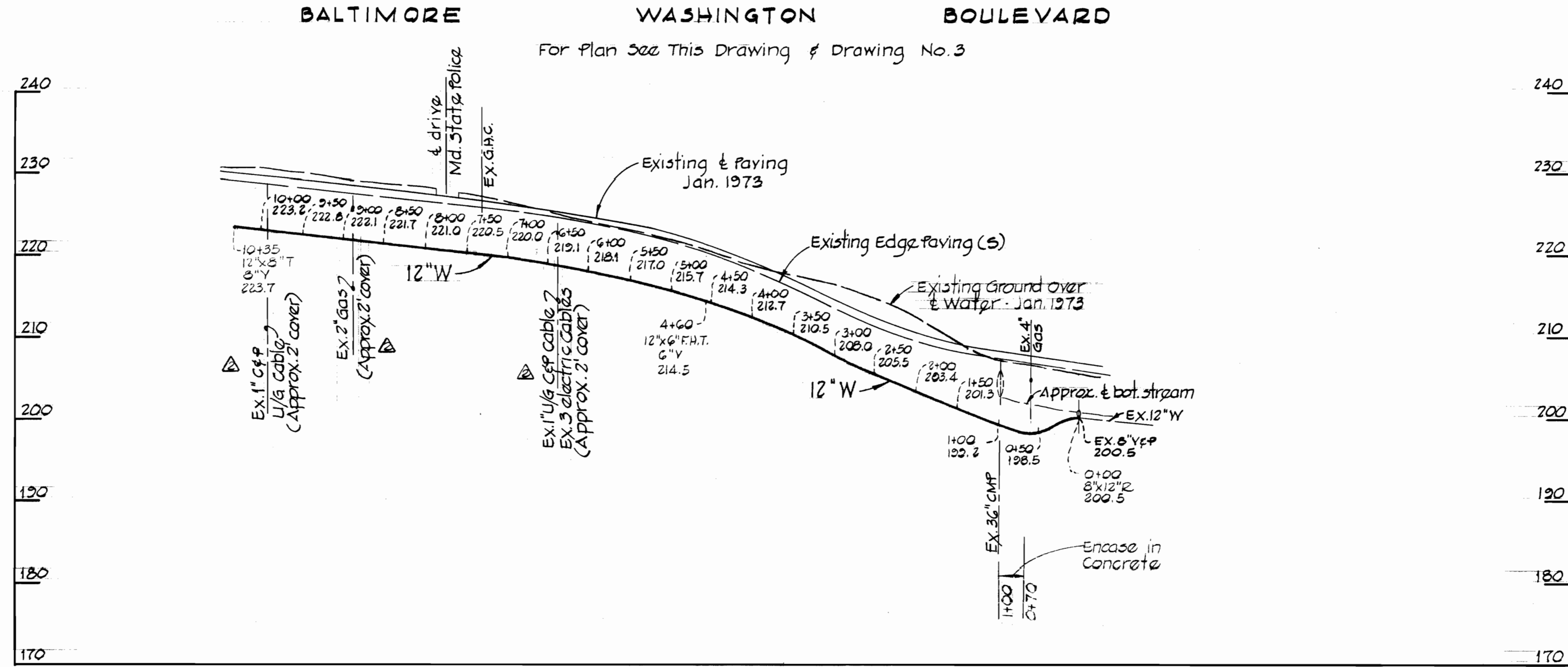
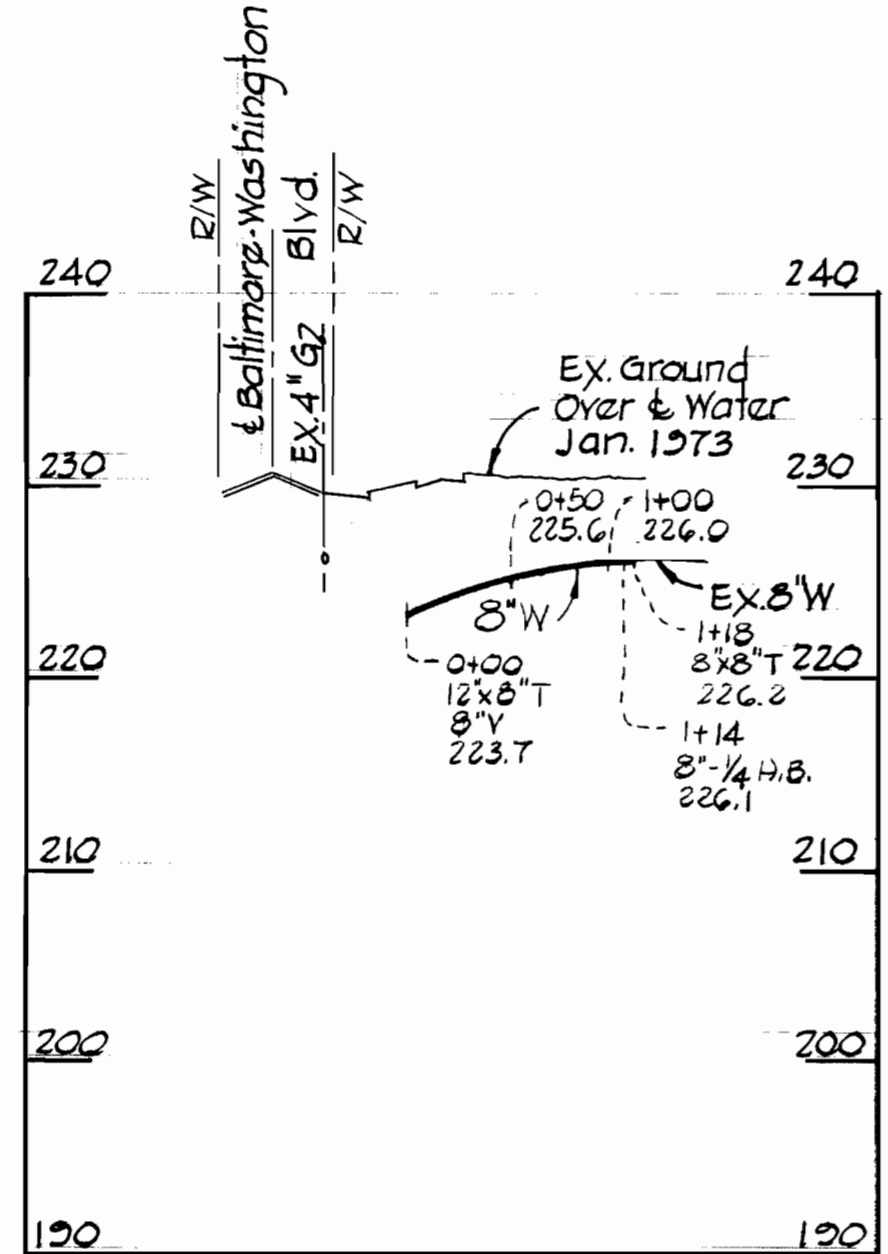
Property of
ALMO TRAILER SALES, INC.



Note:
The contractor shall maintain ingress & egress at all times at the Waterloo Police Barracks Complex.
Sidewalks or sod disturbed during construction shall be replaced to its original condition.

PLAN
Scale: 1"=50'

For Plan See Drawing No. 3



PROFILES
SCALE: HORIZ.-1"=100'
VERT.-1"=10'

3/8/73	Contractors Notes added for sod, sidewalk, ingress & egress	
3/8/73	Ex. Gas, C&P & Electric Util. added	
REV.	DATE	REMARKS



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

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
DATE: 2-13-73
W. J. Filbert
CHIEF BUREAU OF ENGINEERING

CONTRACT NO. 454-W

PLAN AND PROFILES
OF WATER MAINS

DORSEY RUN ROAD
ELECTION DISTRICT GUILFORD NO. 6

DRAWING NO. 7 OF 7
SCALE AS SHOWN

WS 454-W/7

