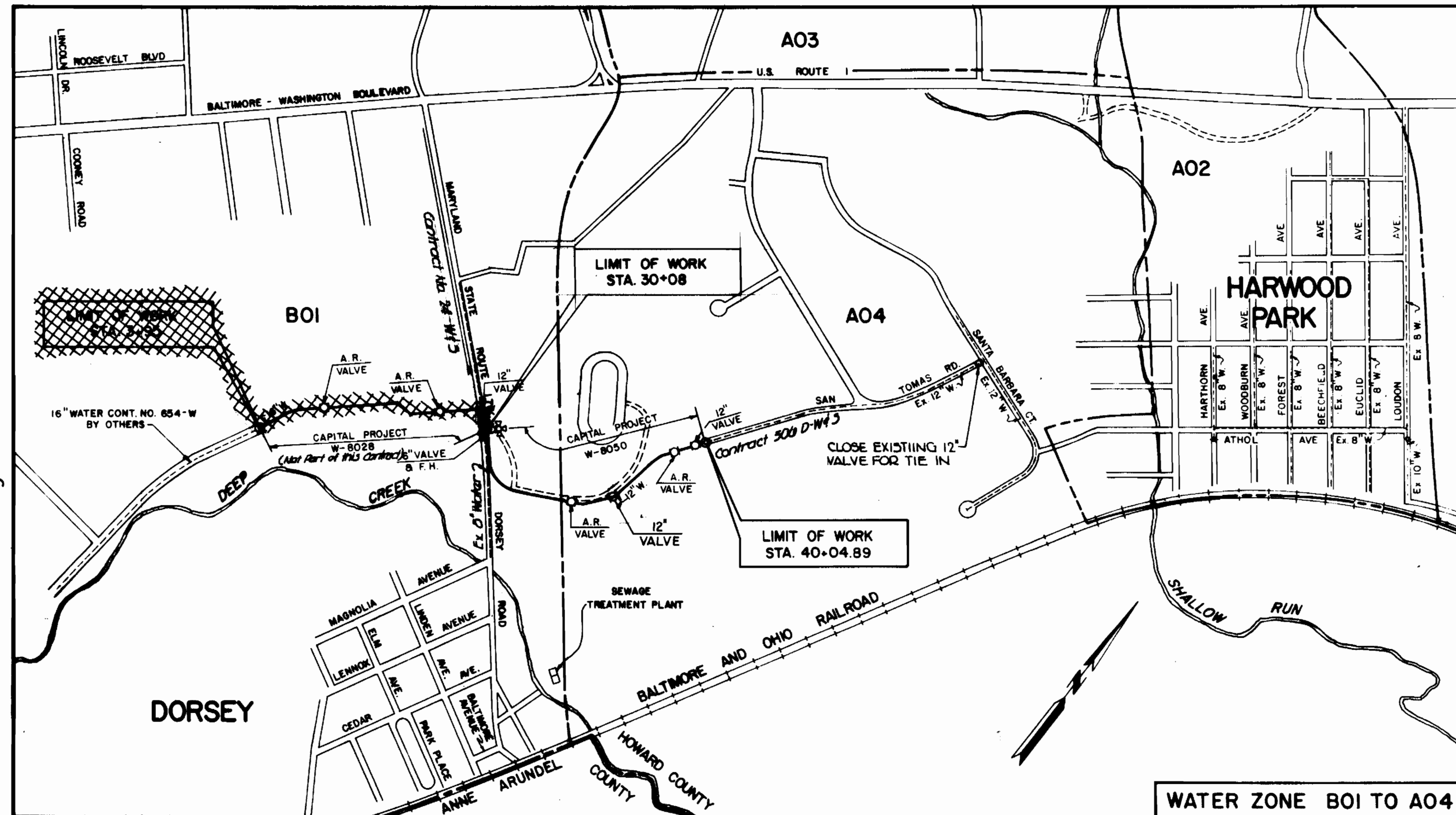


HOWARD COUNTY MARYLAND DEPARTMENT OF PUBLIC WORKS

- Following initial soil disturbance or redistribution, permanent or temporary stabilization shall be completed within:
- Seven calendar days as to the surface of all perimeter controls, dikes, swales, ditches, perimeter slopes and all slopes greater than 3 horizontal to 1 vertical (3:1).
 - Fourteen days as to all other disturbed or graded areas on the project site.
 - The above requirements do not apply to those which are shown on the plan and are currently being used for material storage or for those areas where construction activities are currently being performed or to interior areas of a surface mine where the stabilization material would contaminate the recoverable resource.

QUANTITIES			
ITEM	EQ.	AS BUILT	MATERIAL SUPPLIER
3" WATER	300 L.F.	300 L.F.	DIP/GRIFFIN PIPE
6" WATER	12 L.F.	80 L.F.	DIP/GRIFFIN PIPE
12" WATER	1,991 L.F.	1,992 L.F.	DIP/GRIFFIN PIPE
6" VALVE	1 EA.	1 EA.	M&H VALVE
12" VALVE	3 EA.	3 EA.	M&H VALVE
A.R. VALVE	2 EA.	2 EA.	APZO
5" VALVE	2 EA.	2 EA.	M&H VALVE
BLOW-OFF	2 EQ.	2 EA.	M&C SUPPLY

* Not Part of this Contract.
All Sediment Control measures shown on the plans or required during construction as determined by the Engineer in the field shall conform to Article 15 (Protection of the Environment) Section of the Howard County Design Manual Volume IV, Standard Specifications and Details for Construction.



LOCATION MAP
SCALE: 1" = 600'

GENERAL NOTES

- 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 to the Satisfaction of the Engineer, At the Contractor's Expense.
- All Horizontal Controls are Based on Maryland State Coordinates.
- All Vertical Controls are Based on U.S.G.S Datum.
- All Pipe Elevations Shown are Invert @ Elevations.
- Clear all Utilities by a Minimum of 6". Clear all Poles by 2'-0" Minimum or Tunnel as Required. The Owner has contacted the Utilities Companies and has made arrangements for bracing of Poles as Shown on the Drawings. In the Event the Contractor's Work requires the bracing of Additional poles, any Cost incurred by the Owner for the bracing of Additional Poles or Damages shall be deducted from Money Owed the Contractor. The Contractor Shall coordinate with the Utility companies to schedule the bracing of the poles.
- For Details not Shown on the drawings, use Howard County Design Manual, Vol. IV, Standard Specifications and Details for Construction. The Contractor Shall have a copy of Volume IV on the job.
- Contractor shall Notify the Following Utilities or Agencies at Least five (5) working days before Starting Work Shown on these Plans:
 - Baltimore Gas & Electric Co. - Contractor Services 541-2585
 - Baltimore Gas & Electric Co. - Underground Damage Control 734-5621
 - Baltimore Gas & Electric Co. - Trouble Shooting - 298-9015
 - State Highway Administration - 531-5533
 - Miss Utility - 1-559-0100
 - Chesapeake & Potomac (C&P) Telephone Company - 725-9976
 - American Telephone and Telegraph Cable Location Div. - 525-5553
 - Colonial Pipeline Company - 795-1590
 - Bureau of Utilities Howard County - 992-2566
- Trees & Shrubs are to be Protected from Damage to Max. Extent. Trees & Shrubs located within the Construction Strip are Not to be Removed or Damaged by Contractor.
- Contractor shall Remove Trees, Stumps and Roots along line of Excavation. Payment for Such Removal shall be included in the Unit Price Bid for Construction of the Main.
- 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.
- All Water Mains to be D.I.P. Unless Otherwise Noted.
- Topsoil all Water Mains to have minimum of 3' cover unless otherwise Noted.
- Valves adjacent to Trees shall be Strapped to Trees.
- All Fittings shall be buttressed or anchored with concrete in accordance with the Standard Details unless otherwise provided for on the drawings.
- 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 fire hydrant to be compacted in accordance with Section 1005 of the Standard Specifications.
- Where test pits have been made on Ex. Utilities, they are noted by the symbol at the location of the test pit. A Note or Notes containing the results of the test pit or pits is included on the drawings. Ex. Utilities in the vicinity of the proposed work for which test pits have not been dug shall be located by the Contractor two weeks in Advance of Construction operations at his own Expense.
- All Water house connections shall be for an inside meter setting.
- The Contractor shall not operate any Water Main Valves on the Existing System.

COUNTY LINE WATER MAIN FROM DORSEY TO HARWOOD PARK

REVIEWED FOR HOWARD S.C.D.
NAME
AND MEETS TECHNICAL REQUIREMENTS

Signature: *John M. ...* DATE: 1/12/82
U.S. SOIL CONSERVATION SERVICE

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.

APPROVED: *John ...* DATE: 1/12/82
HOWARD S.C.D.

CAPITAL PROJECT ~~W-8025~~ W-8050
CONTRACT NO. 44-0655

LEGEND
[Symbol] NOT PART OF THIS CONTRACT

AS-BUILTS 11-85
CAPITAL PROJECT NO. ~~W-8025~~ W-8050
CONTRACT NO. 44-0655

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
1526 YORK ROAD - BALTIMORE, MARYLAND - 21093

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
CHIEF, UTILITY DIVISION DATE: 12/23/81
CHIEF, BUREAU OF ENGINEERING DATE: 12/23/81

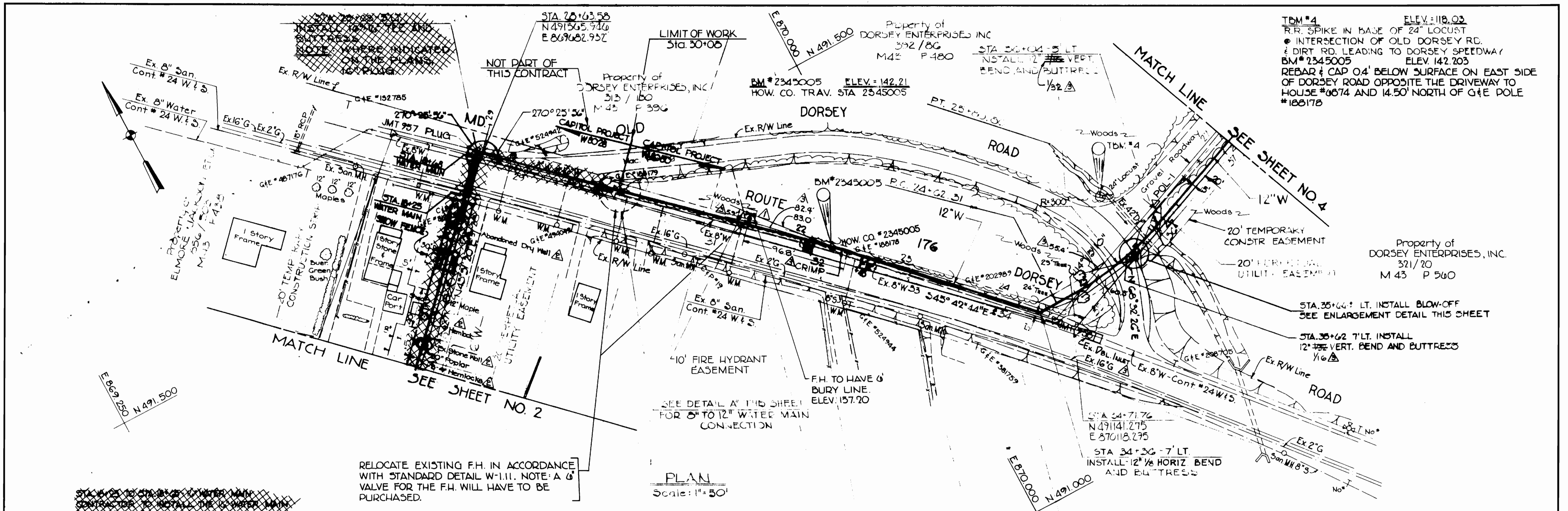
CONTRACT NO. 44-0655

LOCATION MAP &
GENERAL NOTES

COUNTY LINE WATER MAIN
CAPITAL PROJECT
W-8050

DRAWING NO. 1 OF 4
SCALE AS SHOWN

11/16/82
1/2/83



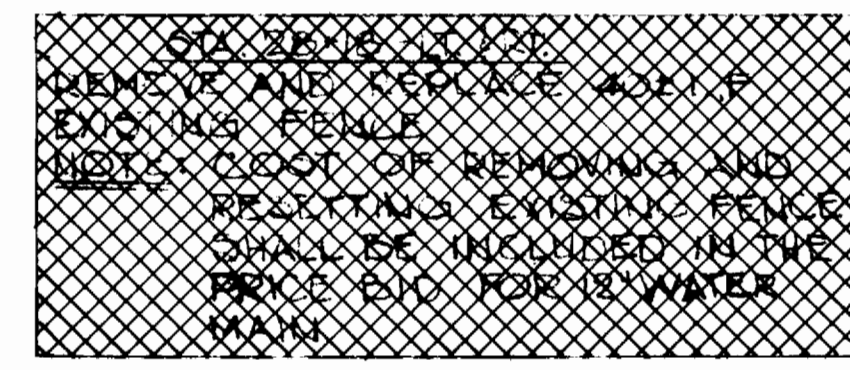
TBM #4 ELEV: 118.03
 R.R. SPIKE IN BASE OF 24" LOCUST
 @ INTERSECTION OF OLD DORSEY RD.
 & DIRT RD. LEADING TO DORSEY SPEEDWAY
 BM # 2345005 ELEV. 142.203
 REBAR & CAP 0.4' BELOW SURFACE ON EAST SIDE
 OF DORSEY ROAD OPPOSITE THE DRIVEWAY TO
 HOUSE #6674 AND 14.50' NORTH OF G&E DOLE
 #186178

Property of
 DORSEY ENTERPRISES, INC.
 321/20
 M 43 P 540

RELOCATE EXISTING F.H. IN ACCORDANCE
 WITH STANDARD DETAIL W-111. NOTE: A 6"
 VALVE FOR THE F.H. WILL HAVE TO BE
 PURCHASED.

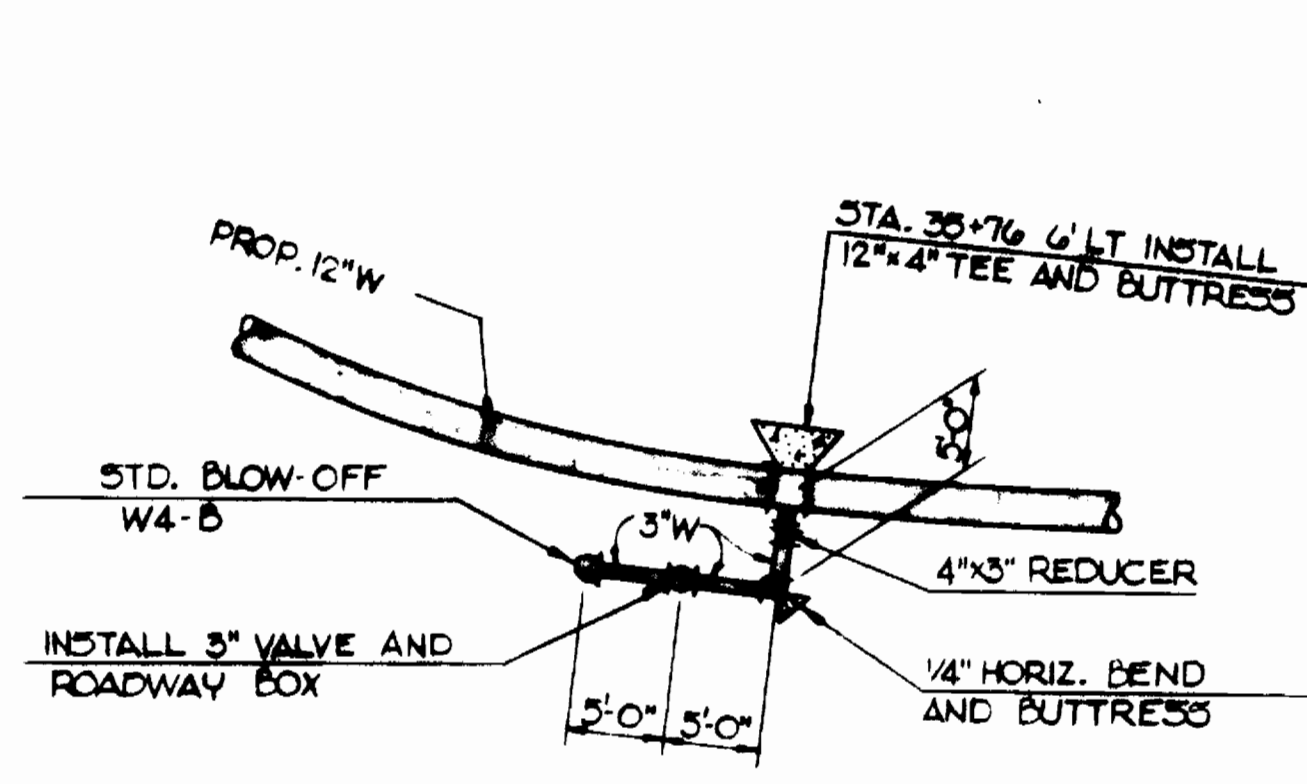
PLAN
 Scale: 1"=50'

STATIONING TO CORNER OF WATER MAIN
 CONNECTION TO
 EXISTING WATER MAIN
 TOWARD COUNTY DETAIL W-27

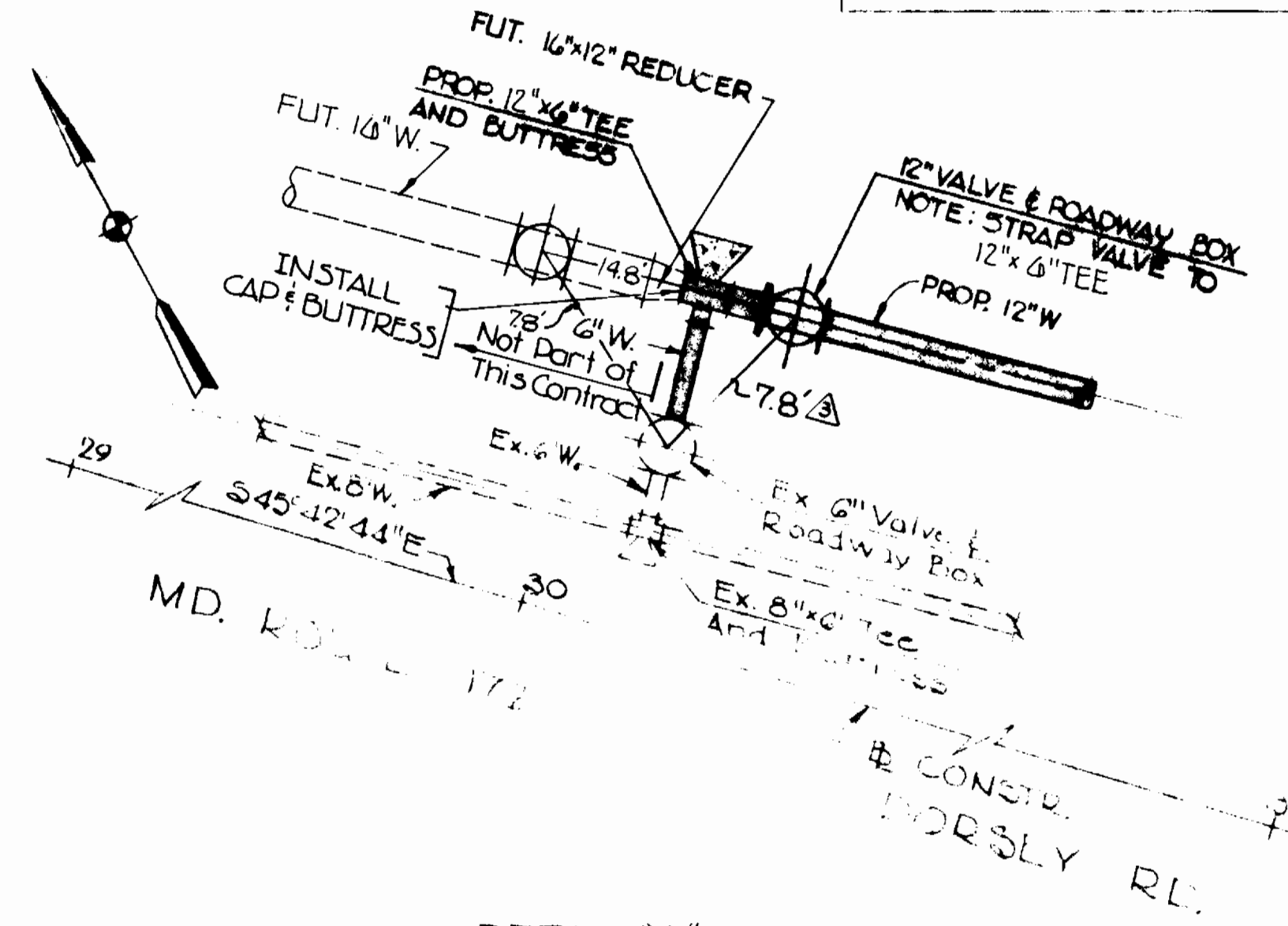
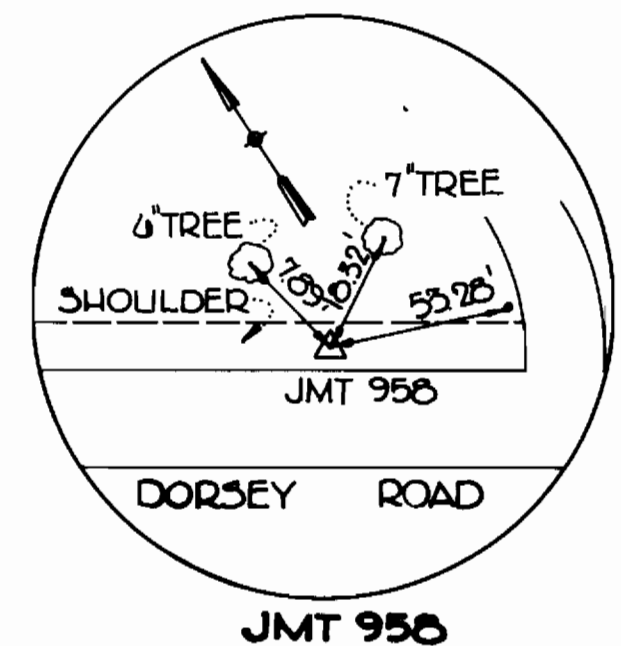
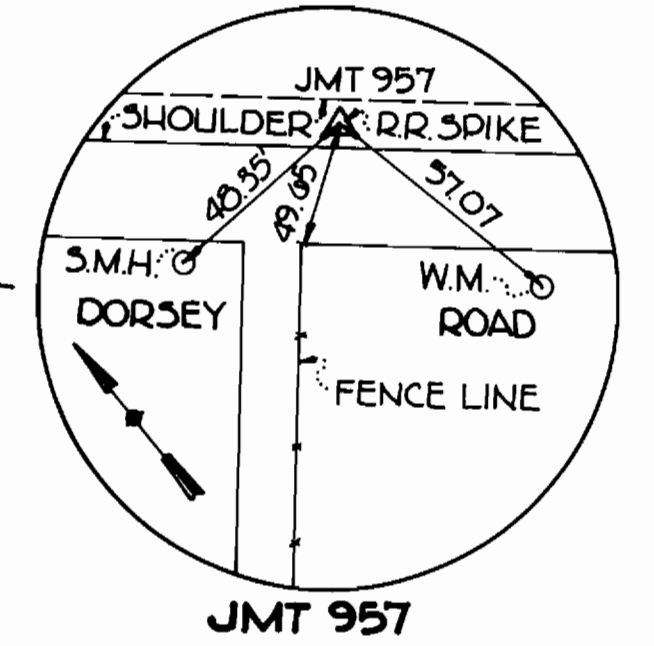


STA 31+35 - 11 LT.
 INSTALL 12" x 6" TEE AND FIRE HYDRANT
 WITH 6" VALVE AND ROADWAY VALVE BOX
 NOTE: STRAP FIRE HYDRANT AND VALVE
 TO MAIN. SEE DETAIL W 2 II

STA 32+35 - 12 LT. &
 STA 35+50 - 10 LT.
 THE CONTRACTOR'S ATTENTION IS
 DRAWN TO THE FACT THAT THE
 OUTSIDE EDGE OF THE PROP 12"
 WATER MAIN MUST CLEAR THE
 EXIST. UTILITY POLES BY A MIN.
 OF 2 FEET.



ENLARGEMENT DETAIL FOR BLOW-OFF
 AT STA. 35+66 ± LT.
 NTS



CONNECTION OF EXISTING 6" WATER MAIN
 TO THE NEW 12" WATER MAIN

1. STRAP THE EXISTING 6" VALVE TO THE EXISTING 6" x 6" TEE.
2. CLOSE THE EXISTING 6" VALVE SERVING THE EXISTING FIRE HYDRANT.
3. RELOCATE THE EXISTING FIRE HYDRANT.
4. INSTALL A 12" x 6" TEE AND BUTTRESS ALONG THE NEW 12" WATER MAIN.
5. INSTALL APPROXIMATELY 4 LF 6" WATER MAIN FROM THE EXISTING 6" VALVE TO THE NEW 12" x 6" TEE.

NOTE: SPECIAL CARE SHALL BE TAKEN DURING CONSTRUCTION SO THAT THE EXISTING BUTTRESS REMAINS UNDISTURBED.

DETAIL "A"
 Not To Scale



DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND
 Director of Public Works: *Robert W. ...*
 Chief - Bureau of Utilities: *...*

NO.	DESCRIPTION	DATE	BY
1	As-builts	11-85	MJS
2	ADDED 4" HEMLOCKS, STONE WALL & DRY WELL S.E. SIDE OF LOT	11/20/83	T.B.
3	RELOCATE FIRE HYDRANT ON NE. SIDE OF DORSEY RD.	11/16/82	RBS

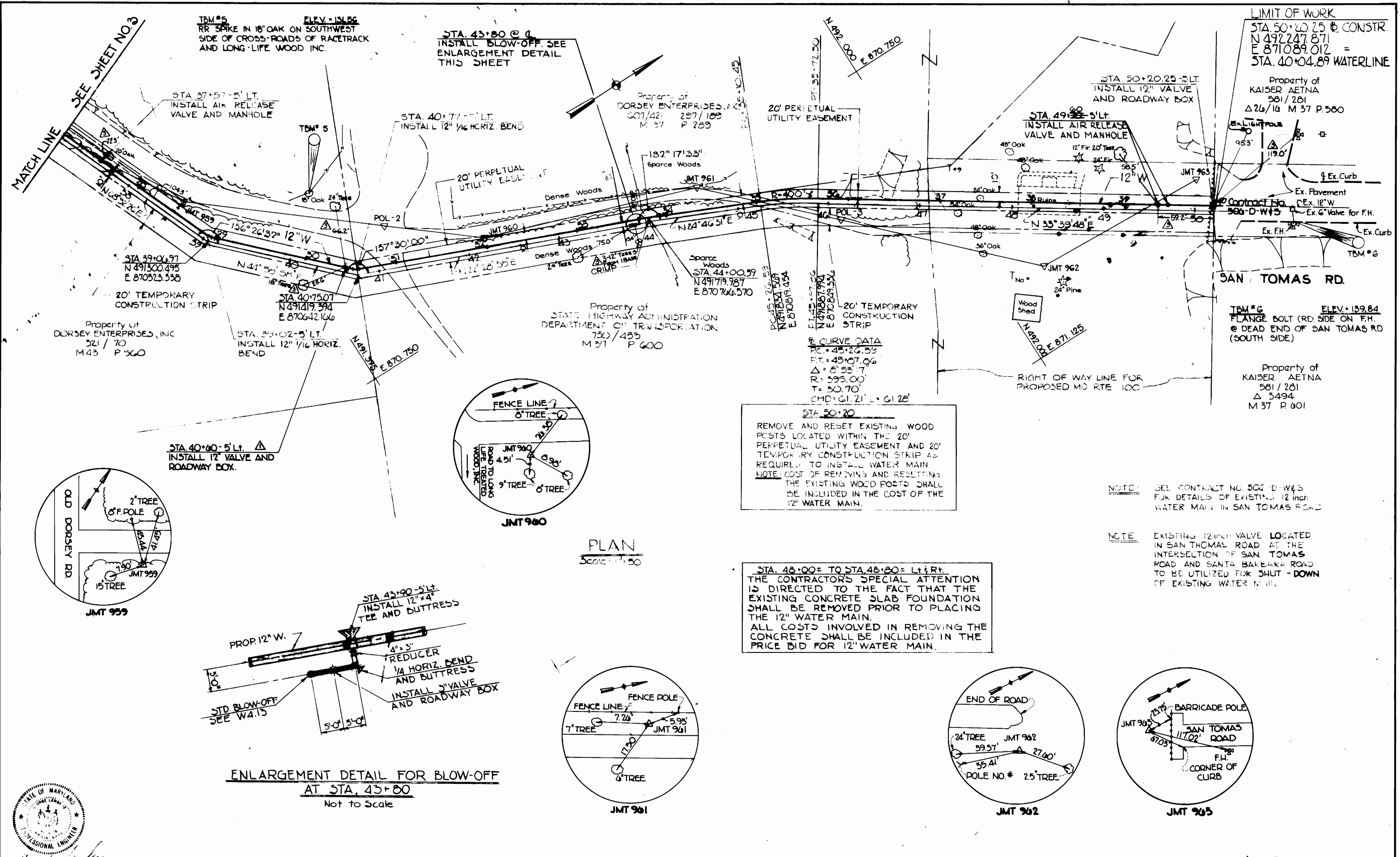
CONTRACT NO. 44-0655

PLAN
 STA. 16+50 TO STA. 27+00

COUNTY LINE WATER MAIN
 CAPITAL PROJECT W-8050

AS-BUILTS 11-85	
CAPITAL PROJECT NO. W-8050	
CONTRACT NO. 44-0655	
DRAWING NO. OF	SCALE AS SHOWN
2 4	

11/16/82
 1/23/83



LIMIT OF WORK
 STA 50+20.25 @ CONSTR.
 N 492°24'8.71"
 E 871°089.012" =
 STA. 40+04.89 WATERLINE

Property of
 KAISER AETNA
 581 / 281
 Δ 26 / 10 M 37 P 580

TBM #6
 ELEV. = 159.84
 FLANGE BOLT (RD. SIDE ON F.H.
 @ DEAD END OF SAN TOMAS RD
 (SOUTH SIDE)

Property of
 KAISER AETNA
 581 / 281
 Δ 3494
 M 37 P 601

STA 50+20
 REMOVE AND RESET EXISTING WOOD
 POSTS LOCATED WITHIN THE 20'
 PERPETUAL UTILITY EASEMENT AND 20'
 TEMPORARY CONSTRUCTION STRIP AS
 REQUIRED TO INSTALL WATER MAIN.
 NOTE: COST OF REMOVING AND RESULTING
 THE EXISTING WOOD POSTS SHALL
 BE INCLUDED IN THE COST OF THE
 12" WATER MAIN.

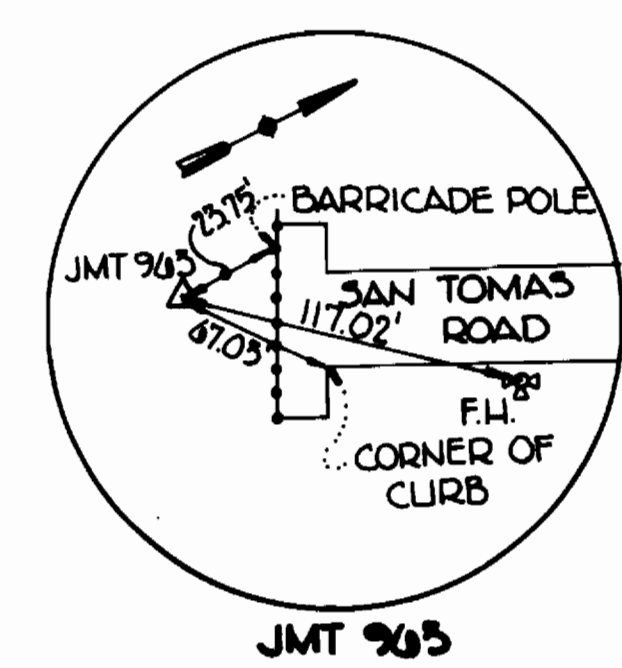
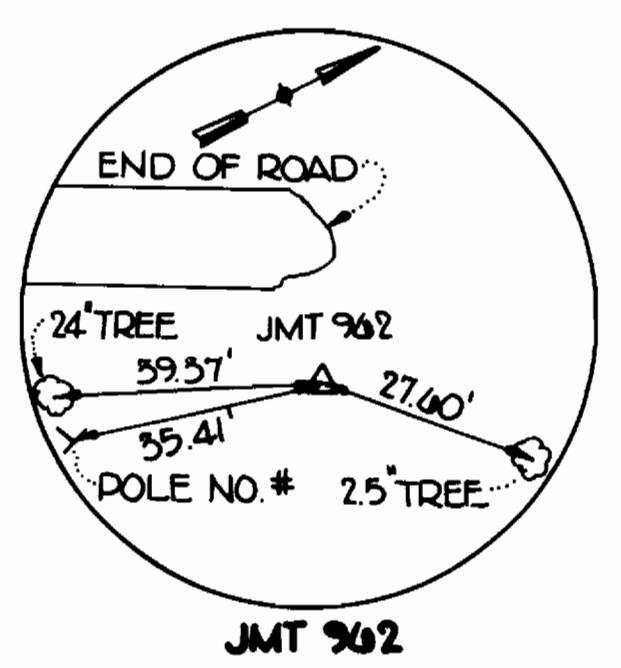
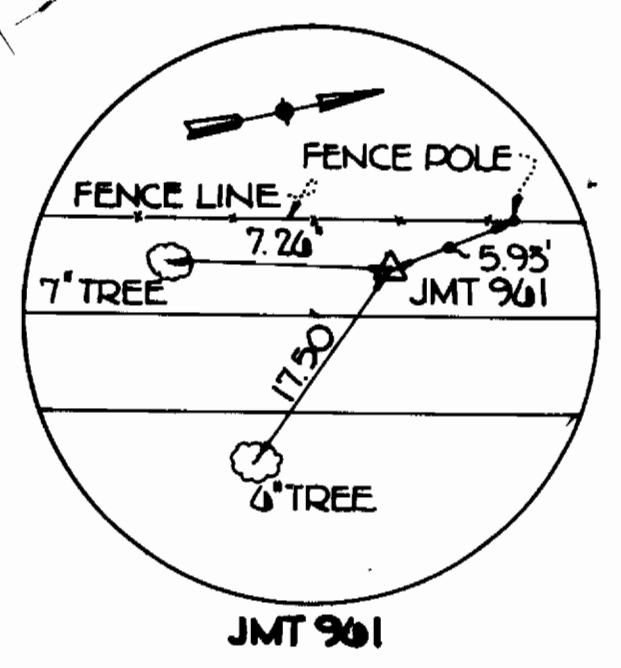
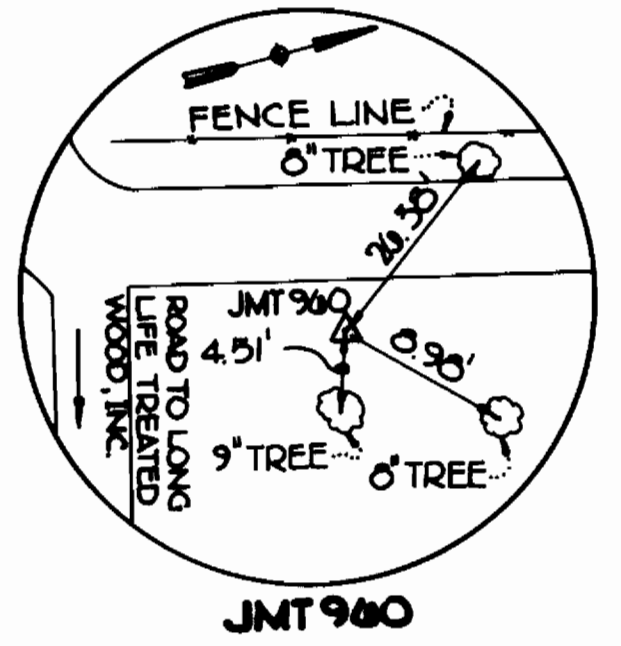
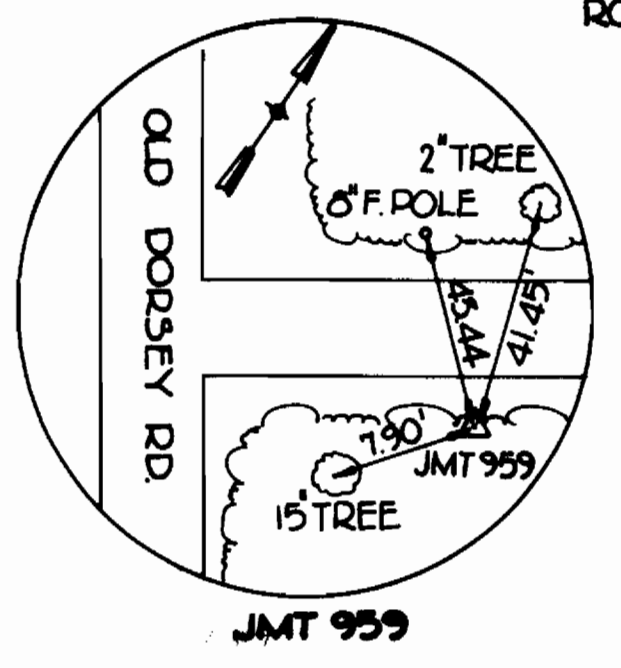
STA. 48+00= TO STA. 48+80= L & R.
 THE CONTRACTOR'S SPECIAL ATTENTION
 IS DIRECTED TO THE FACT THAT THE
 EXISTING CONCRETE SLAB FOUNDATION
 SHALL BE REMOVED PRIOR TO PLACING
 THE 12" WATER MAIN.
 ALL COSTS INVOLVED IN REMOVING THE
 CONCRETE SHALL BE INCLUDED IN THE
 PRICE BID FOR 12" WATER MAIN.

NOTE: SEE CONTRACT NO. 506 D-W-5
 FOR DETAILS OF EXISTING 12 INCH
 WATER MAIN IN SAN TOMAS ROAD

NOTE: EXISTING 12 INCH VALVE LOCATED
 IN SAN TOMAS ROAD AT THE
 INTERSECTION OF SAN TOMAS
 ROAD AND SANTA BARBARA ROAD
 TO BE UTILIZED FOR SHUT-DOWN
 OF EXISTING WATER MAIN.

PLAN
 Scale: 1" = 50'

**ENLARGEMENT DETAIL FOR BLOW-OFF
 AT STA. 43+80**
 Not to Scale



DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND
 JOHNSON, MERRAN & THOMPSON P.A.
 ENGINEERS - PLANNERS - SURVEYORS - LANDSCAPE ARCHITECTS
 1528 YORK ROAD BALTIMORE, MARYLAND - 21205

NO.	DESCRIPTION	DATE	BY
AS-BUILT		11-85	MJS
1	ADD 12" VALVE AND ROADWAY BOX	8/24/04	WKS
REVISIONS			

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND
 CONTRACT NO. 44-0655

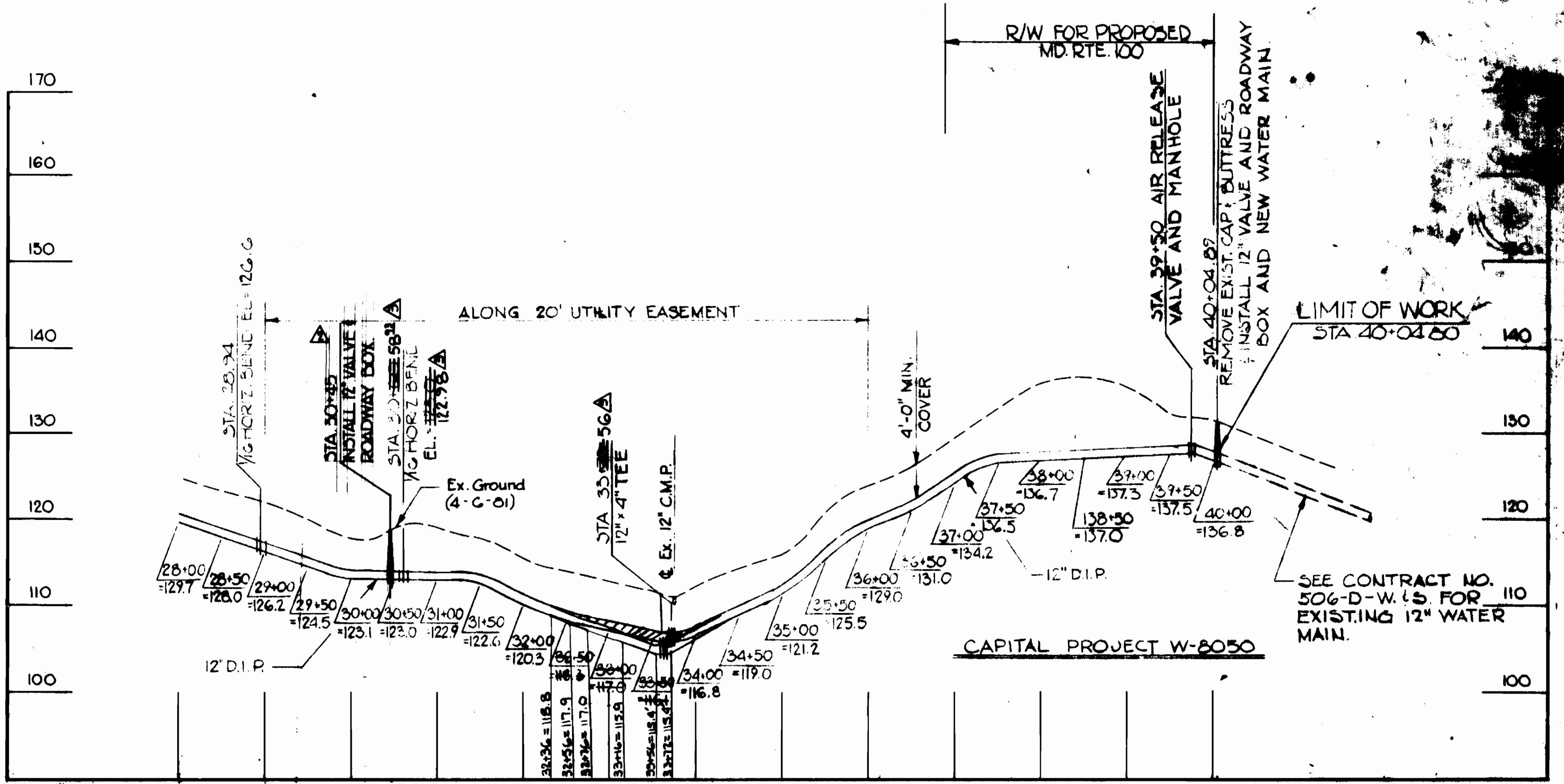
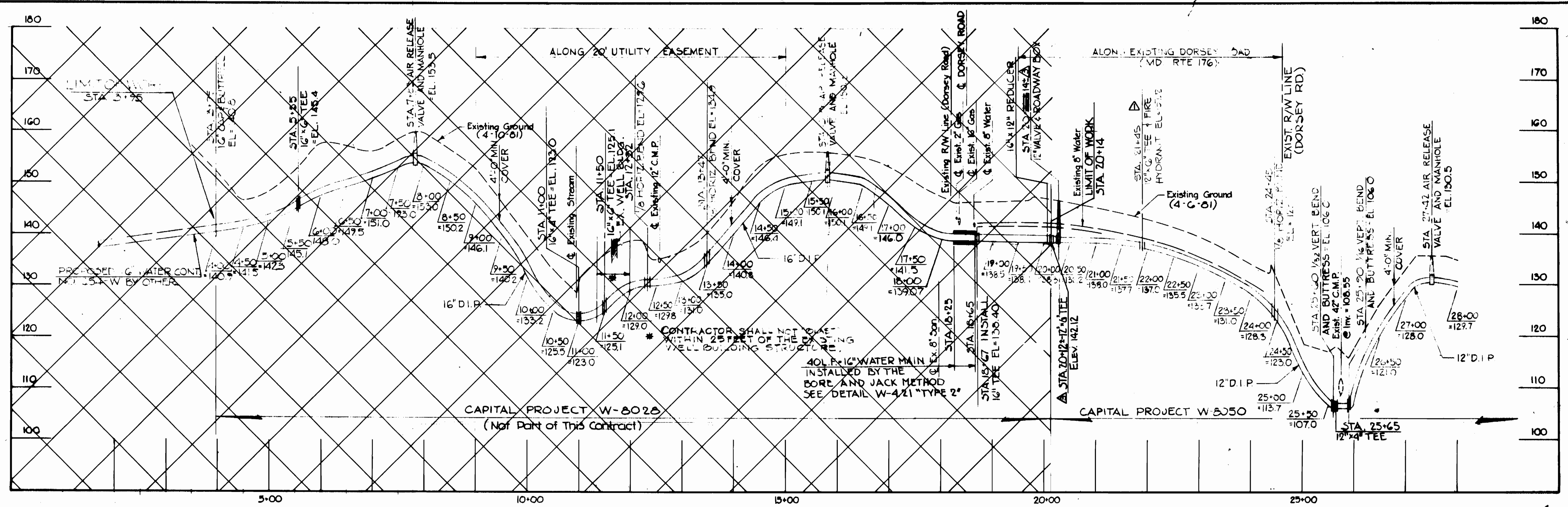
PLAN
 STA. 27+00 TO STA. 40+04.89

COUNTY LINE WATER MAIN
 CAPITAL PROJECT W-8050

AS-BUILT 11-85

CAPITAL PROJECT NO. W-8050	
CONTRACT NO. 44-0655	
DRAWING NO. 3	SCALE AS SHOWN
OF 4	

11/16/82
 1/26/85



DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND
 ENGINEERS - PLANNERS - SURVEYORS - LANDSCAPE ARCHITECTS
 1808 YORK ROAD - BALTIMORE, MARYLAND 21093

AS-BUILTS		11-85	MJS
▲	ADD 12" VALVE AND ROADWAY BOX	0/24/02	NKS
▲	MOVE FIRE HYDRANT TO STA. 21+46	11/16/02	RBS

REVISIONS			
NO.	DESCRIPTION	DATE	BY
1	ADD 12" VALVE AND ROADWAY BOX	0/24/02	NKS
2	MOVE FIRE HYDRANT TO STA. 21+46	11/16/02	RBS

AS-BUILTS 11-85

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND
 CONTRACT NO. 44-0686

PROFILE
 STA. 3+98 TO STA. 40+04.80

COUNTY LINE WATER MAIN
 CAPITAL PROJECT W-8050

CAPITAL PROJECT NO. 44-0686	DRAWING NO. 4	SCALE HORIZ. 1"=40'
	OF 4	VERT. 1"=10'

11/26/02
 7/28/03