

BENCH MARKS

B.M. 3240001 Elev. 481.229
Concrete monument 0.3 Ft. above surface, 5.5 Ft. ± south of south curb of Md. Rte. 144 Eastbound ramp, where it meets U.S. Rte. 40 Eastbound, 190 Ft. ± West of Coventry Court Drive.

B.M. 3240003 (BNP No. 9) Elev. 488.109
Concrete monument 0.2 Ft. above surface, 200 Ft. east of Coventry Court Drive.

Temporary B.M. M-1 Elev. 482.199
Hub and tack 30 Ft. east of Coventry Court Drive and 7 Ft. ± south of edge of shoulder of the Eastbound Lane of U.S. Rte. 40.

FLOYD HOLLENBAUGH
858/613
M23-PI3

GEORGE R. DAVIS & WIFE
399/25
M23-PI4

PETROS K. KARRAS & WIFE
589/149
M24-PI1

JOHN H. KRAMER & WIFE
1091/340
M24-P74

KRAMER CAR CARE
(Mac)

ELLIOTT BUILDING ASSOC.
1090/112
M24-P695

WATER CODE FOR COUNTY
USE ONLY: WATER NO. H07
TYPE OF BUILDING - N/A
NO. OF PARCELS - N/A
NO. OF HOUSE CONNECTIONS - 0
DRAINAGE AREA - PATAPSCO

VICINITY MAP

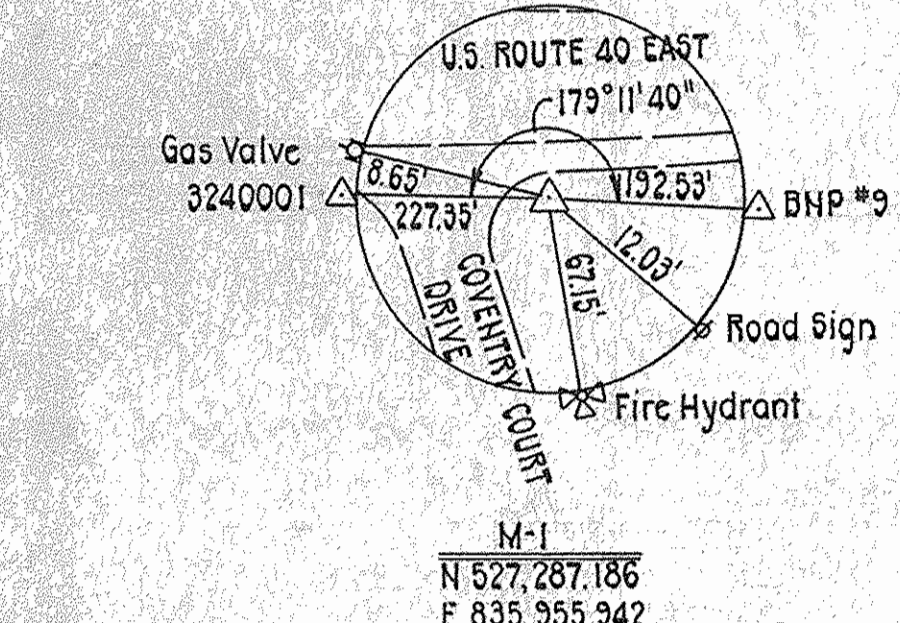
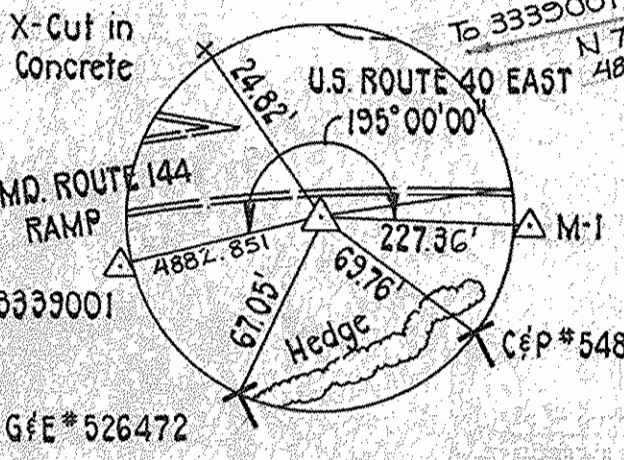
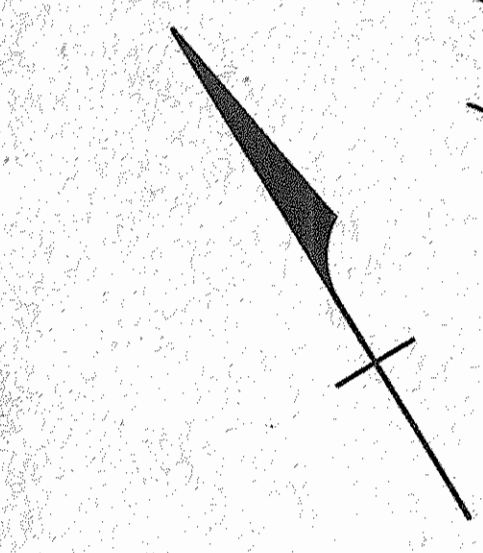
SCALE: 1" = 600'

LEGEND

Staw Bale Dike or Silt Fence, See 1983 Md. Standard and Specifications for Soil Erosion and Sediment Control 5B-1, and 5F-1

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 Contractor's expense.
- All horizontal controls are based on Maryland State Coordinate.
- 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".
- For details not shown on the drawings, and for materials and construction methods, use Howard County Design Manual, Volume IV, Standard Specifications and Details for Construction. The contractor shall have a copy of Volume IV on the job.
- Where test pits have been made on existing utilities, they are noted by the symbol at the location of the test pit. A note or notes containing results of the test pit or pits is included on the drawings. Existing utilities in the vicinity of the proposed work for which test pits have not been dug shall be verified by the Contractor to his own satisfaction. Any damage to existing facilities due to the Contractor's negligence shall be repaired at the Contractor's expense.
- Contractor shall notify the following utilities or agencies at least five (5) working days before starting work shown on these plans.
 - State Highway Administration - 531-5533
 - Baltimore Gas & Electric Company - Contractor Services - 850-4620
 - Baltimore Gas & Electric Company - Under Ground Damage Control - 859-9004
 - Baltimore Gas & Electric Company - Trouble Shooting - 298-9001
 - "Miss Utility" - 1-559-0100
 - Colonial Pipeline Company - 795-1390
 - Bureau of Utilities, Howard County Department of Public Works - 992-2366
 - C & P Telephone Co. 1-800-257-7777



Test Pit performed G-12-26, 6" Gas Main located, See Plan. Top Elev. 474.57

Sediment control measures will be implemented in accordance with Article No. 219 of the Specifications.

Reviewed for Howard Soil Conservation District and meets technical requirements.
James M. Selman
U.S. Soil Conservation District

This Development Plan is approved for soil erosion and sediment control by the Howard Soil Conservation District.
Stephen R. Fisher
Howard Soil Conservation District

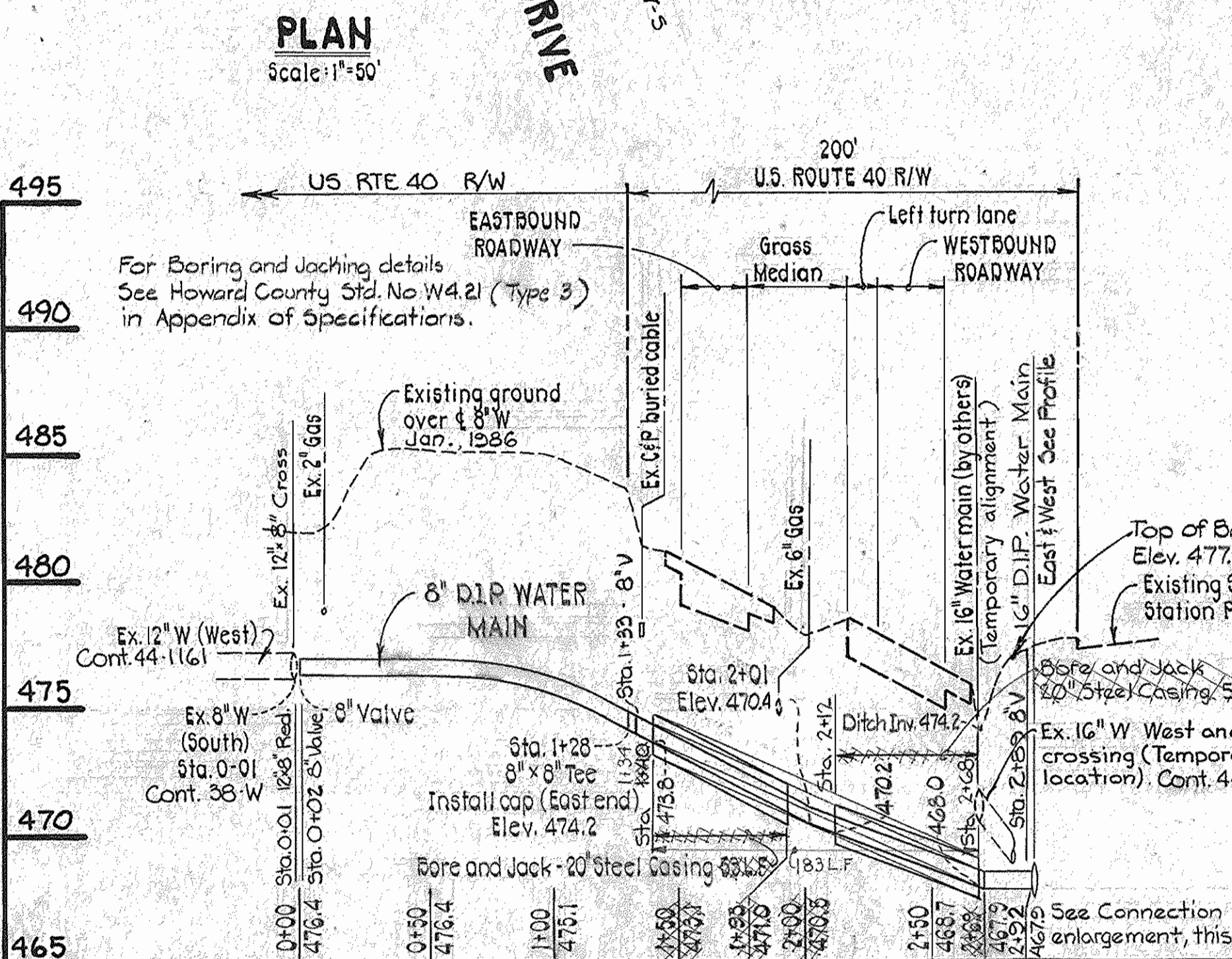
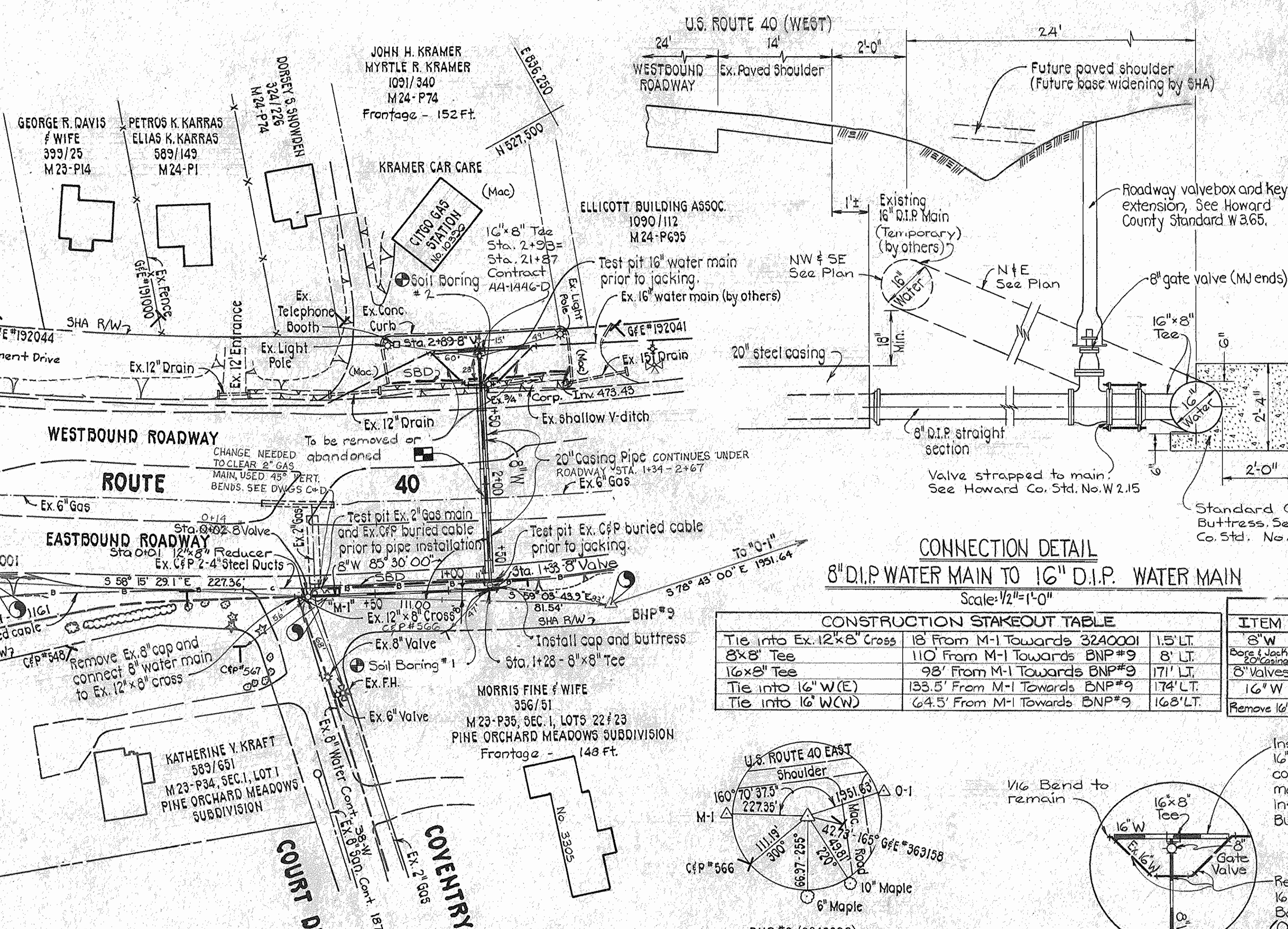
DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

David F. Nimmo 10-18-86
DIRECTOR OF PUBLIC WORKS

Robert M. Bauman 10-26-86
CHIEF, BUREAU OF UTILITIES

John R. Jeschke 10/29/86
CHIEF, BUREAU OF ENGINEERING

Robert M. Bauman 10/29/86
CHIEF, UTILITY DESIGN DIV.



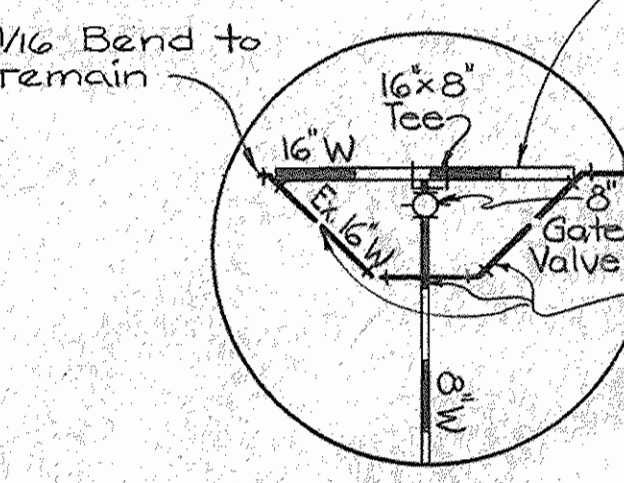
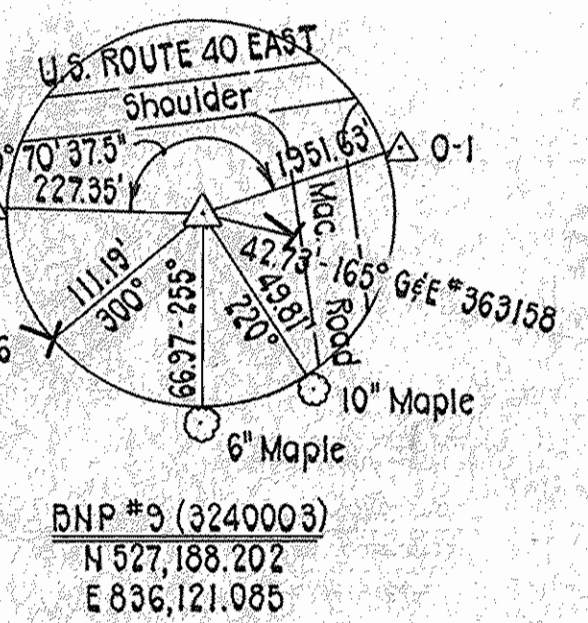
PROFILE
SCALE: HORIZ. 1" = 50'
VERT. 1" = 5'

CONNECTION DETAIL
8" D.I.P. WATER MAIN TO 16" D.I.P. WATER MAIN

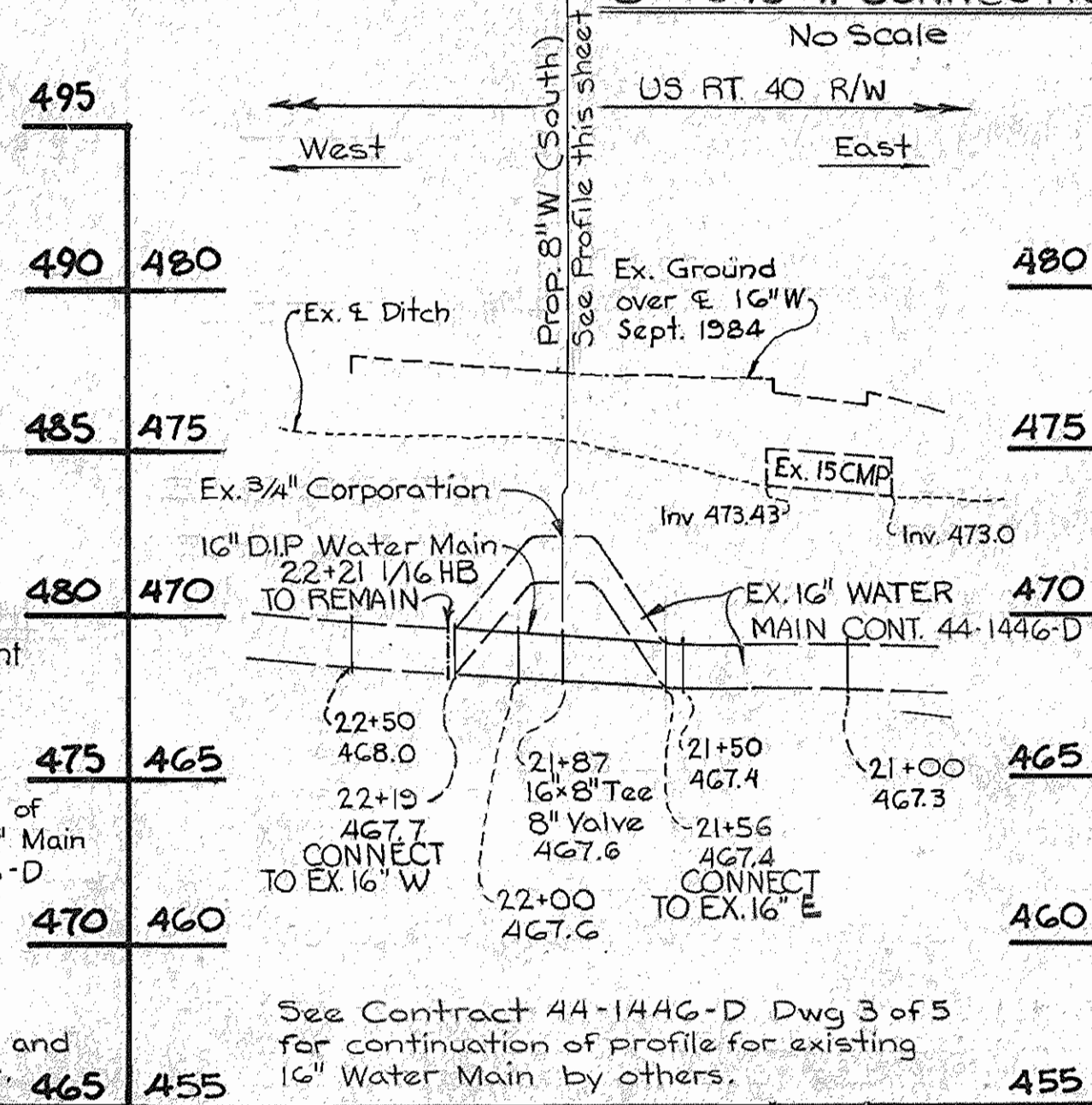
Scale: 1/2" = 1'-0"

CONSTRUCTION STAKEOUT TABLE	
Tie into Ex. 12"x8" Cross	18' From M-1 Towards 3240001 1.5' LT.
8"x8" Tee	110' From M-1 Towards BNP#9 8' LT.
16"x8" Tee	98' From M-1 Towards BNP#9 171' LT.
Tie into 16" W(E)	133.5' From M-1 Towards BNP#9 174' LT.
Tie into 16" W(W)	64.5' From M-1 Towards BNP#9 168' LT.

QUANTITIES			
ITEM	EST'D	AS BUILT	SUPPLIER
8" W	280'	210'	A+P SUPPLY
8"x8" Tee	109'	133'	MIDWAY SUPPLY
8" Valves	3	3	A+P SUPPLY
16" W	60'	65'	A+P SUPPLY
Remove 16" W	80'	80'	



PLAN ENLARGEMENT FOR 8" TO 16" W CONNECTION



RESTORATION SCHEDULE	
STA.	RESTORED SURFACE
0+00	Mac. Roadway
0+08	Sod
1+33	Mac. Shoulder
1+44	Mac. Shoulder
1+75	Mac. Shoulder
1+80	Sod
2+15	Sod
2+52	Mac. Shoulder
2+66	Sod
2+66	Sod
2+93 Lt. 40'	Sod
2+93 Rt. 40'	Sod

GENERAL NOTES (CONTD.)

- The contractor shall dig an observation pit at the crossing location of the 8 inch water and existing 6 inch gas main, prior to beginning boring and jacking operations. This pit shall be of sufficient size to expose both the existing gas main and the jacked steel sleeve(s) to insure acceptable clearance of the 8 inch water and jacked steel sleeve(s) with the gas main. Payment for the observation pit shall be included in the linear foot price of Boring and Jacking 20 inch steel sleeve.
- All water mains to be D.I.P. Cl. 52 unless otherwise noted.
- Top of all water mains to have a minimum of 3-1/2' cover unless otherwise noted.
- Valves adjacent to tees shall be strapped to tees.
- All fittings shall be buttressed or anchored with concrete in accordance with the Standard Details unless otherwise provided for on the drawings.
- The contractor shall not operate any water main valves on the existing water system.
- Bore and jack equipment to be operated off either or both outside shoulders in SHA right-of-way and not in median area of U.S. Route 40
- The contractor shall comply with all requirements of SHA permit No. 7-HO-2547 and 7-HO-2567.

DES: J.D.
DRN: ARW
CHK: RHB
DATE: 10-15-86

WATER MAIN PLAN & PROFILE

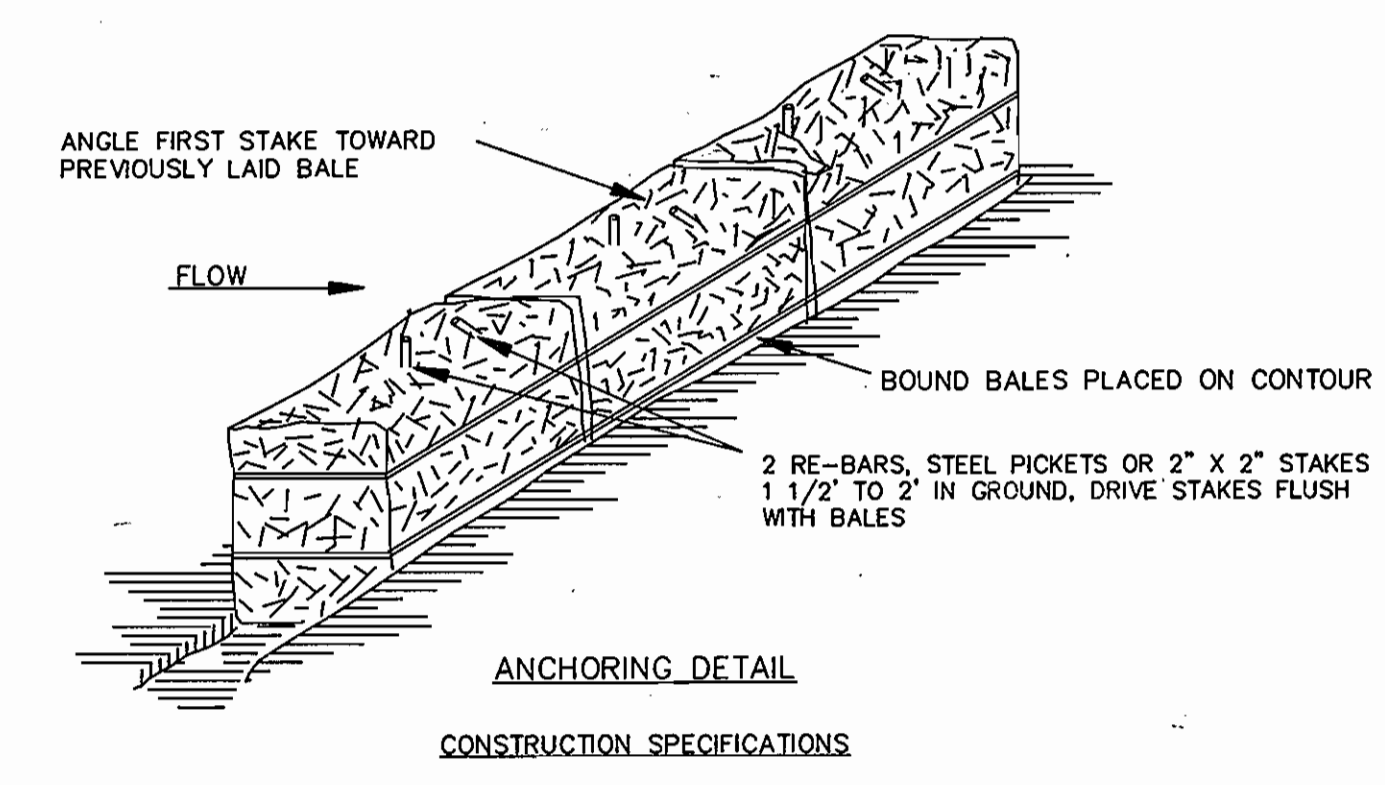
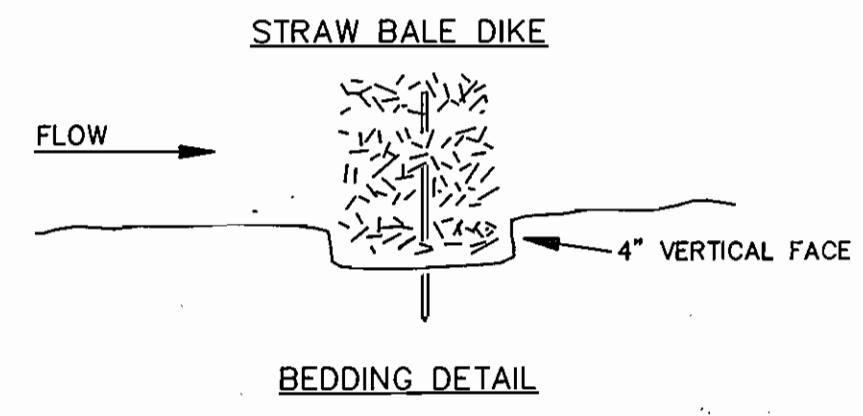
600' SCALE MAP NO. 23 #24 BLOCK NO. 641

CONTRACT NO. 44-1535
CAPITAL PROJECT NO. W-8149
COVENTRY COURT DRIVE LOOP WATER MAIN

2nd ELECTION DISTRICT
DATE: OCTOBER 15, 1986

HOWARD COUNTY, MARYLAND

SCALE AS SHOWN
SHEET 1 OF 2



- CONSTRUCTION SPECIFICATIONS**
1. BALES SHALL BE PLACED AT THE TOE OF A SLOPE OR ON THE CONTOUR AND IN A ROW WITH ENDS TIGHTLY ABUTTING THE ADJACENT BALES.
 2. EACH BALE SHALL BE EMBEDDED IN THE SOIL A MINIMUM OF (4) INCHES, AND PLACED SO THE BINDINGS ARE HORIZONTAL.
 3. BALES SHALL BE SECURELY ANCHORED IN PLACE BY EITHER TWO STAKES OR RE-BARS DRIVEN THROUGH THE BALE. THE FIRST STAKE IN EACH BALE SHALL BE DRIVEN TOWARD THE PREVIOUSLY LAID BALE AT AN ANGLE TO FORCE THE BALES TOGETHER. STAKES SHALL BE DRIVEN FLUSH WITH THE BALE.
 4. INSPECTION SHALL BE FREQUENT AND REPAIR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
 5. BALES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFULNESS SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.

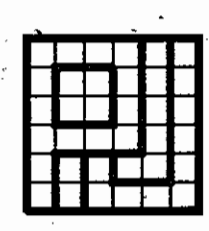
Sediment Control Measures will be implemented in accordance with Article No. of the Specifications.

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENT.
James M. Helms 10/21/86
 SIGNATURE DATE

US SOIL CONSERVATION SERVICE
 This Development Plan is approved for Soil Erosion and Sediment Control by the Howard Soil Conservation District.

APPROVED:
Howard S.C.D. 10/21/86
 HOWARD S.C.D. DATE

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND <i>James F. Nease</i> 10-21-86 DIRECTOR OF PUBLIC WORKS DATE		<i>James M. Helms</i> 10/21/86 CHIEF, BUREAU OF ENGINEERING DATE	
<i>Robert M. Swinger</i> 10-26-86 CHIEF, BUREAU OF UTILITIES DATE		<i>James M. Helms</i> 10/22/86 CHIEF, UTILITY DESIGN DIV. DATE	


PURDUM & JESCHKE
 CONSULTING ENGINEERS AND LAND SURVEYORS
 1029 N. CALVERT ST.
 BALTIMORE, MARYLAND



DES: D.J.D.			
DRN: CAD			
CHK: R.H.B.			
DATE: 10-15-86			
BY	NO.	REVISION	DATE

EROSION AND SEDIMENT CONTROL DETAILS
 600' SCALE MAP NO. 23 of 24 BLOCK NO. 6 of 1

CONTRACT NO. 44-1535
 CAPITAL PROJECT NO. W-8149
COVENTRY COURT DRIVE LOOP WATER MAIN
 HOWARD COUNTY, MARYLAND
 2nd ELECTION DISTRICT
 DATE: OCTOBER 15, 1986

SCALE AS SHOWN
SHEET 2 OF 2