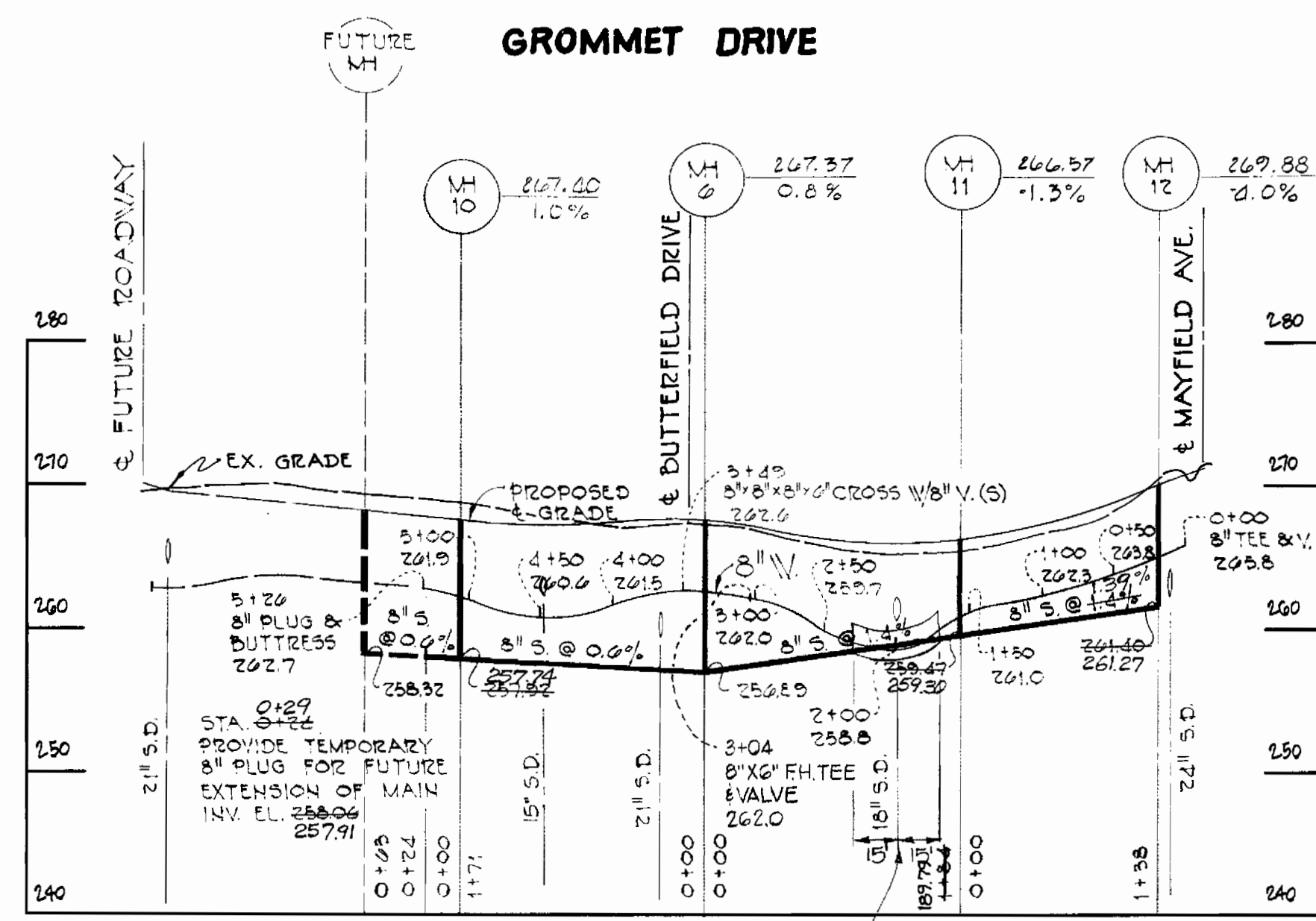
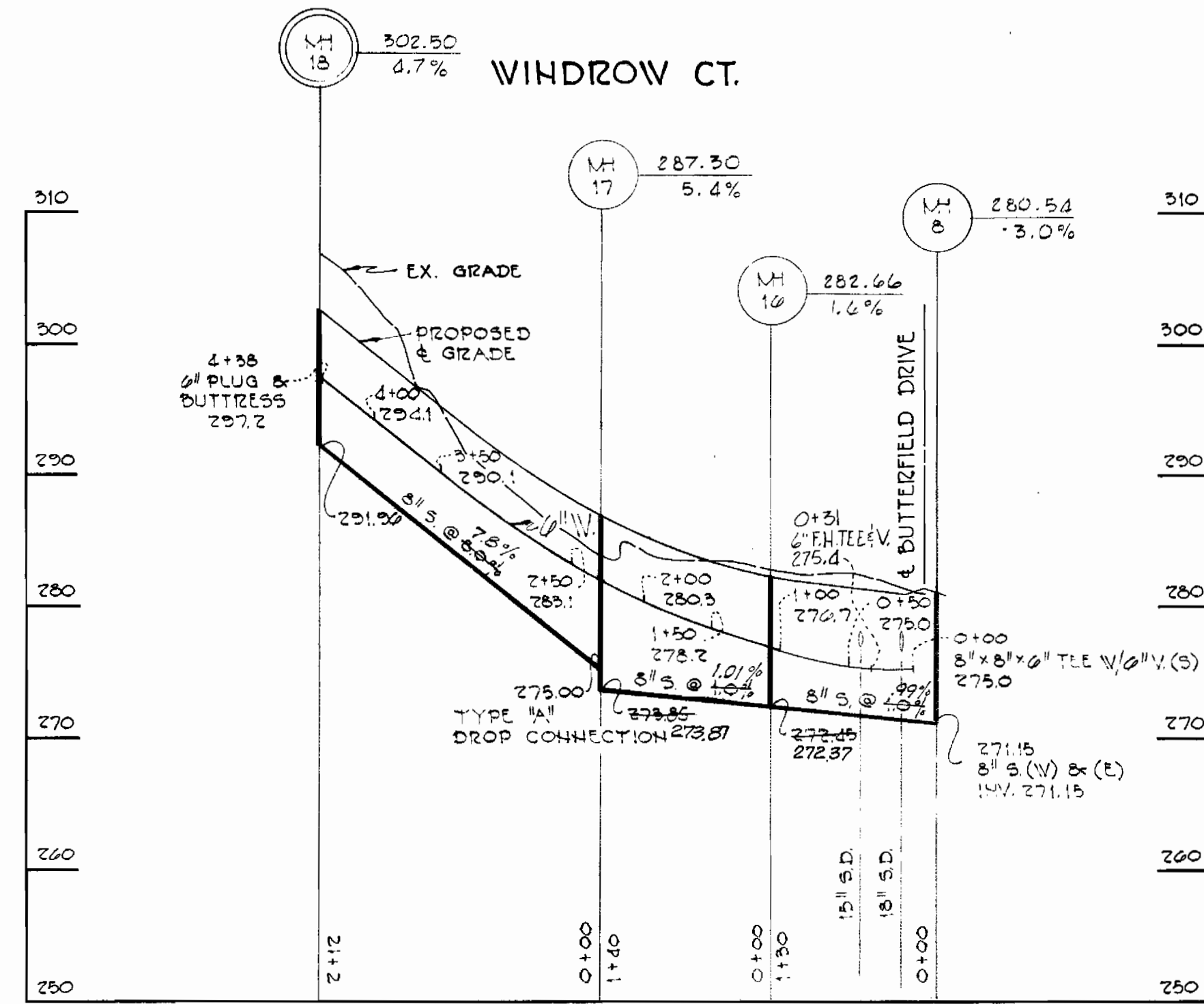


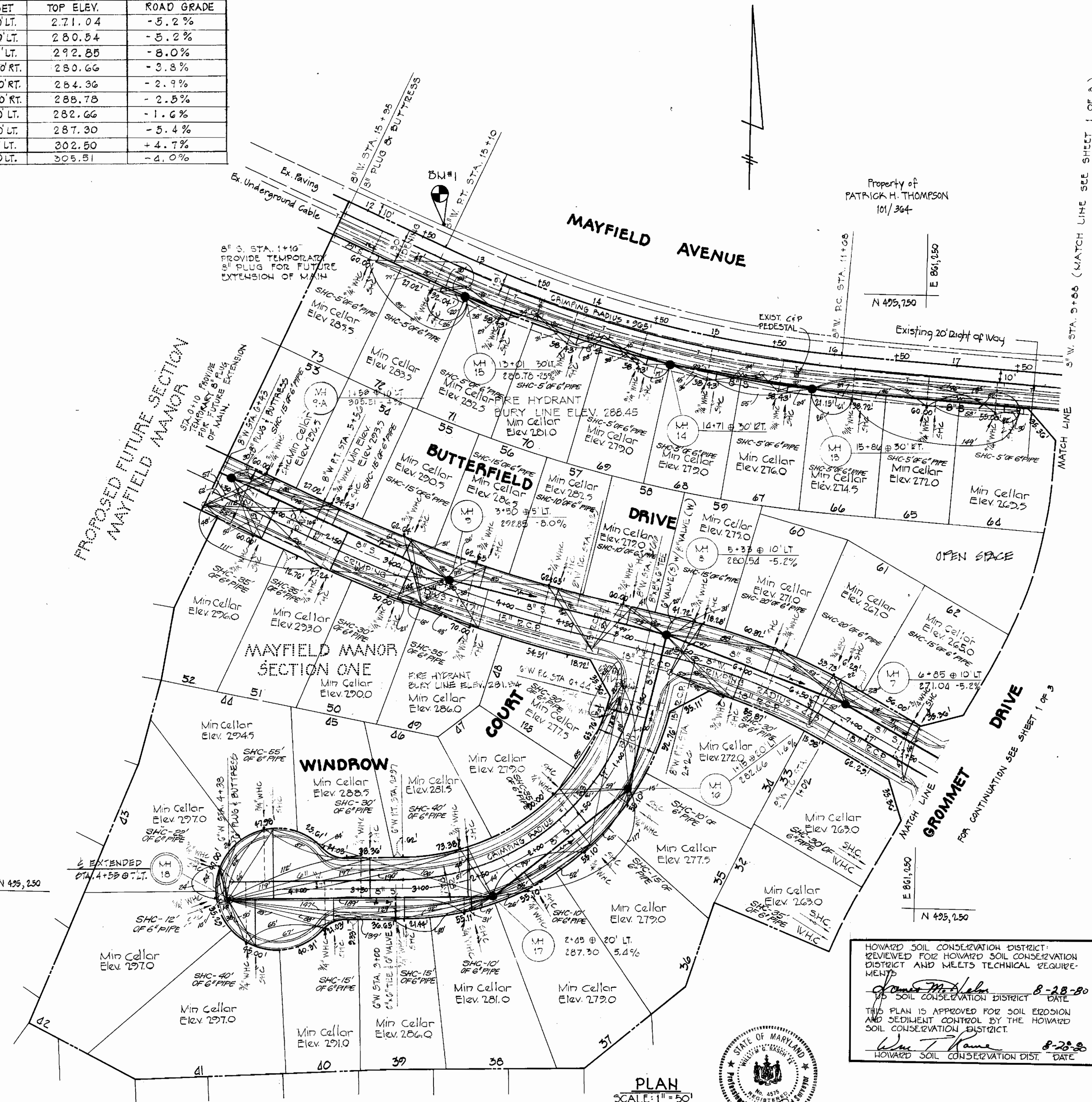
MANHOLE LOCATION SCHEDULE				
N#	Q STA.	OFFSET	TOP ELEV.	ROAD GRADE
7	6+85	@ 10' LT.	271.04	-5.2%
8	5+33	@ 10' LT.	280.54	-5.2%
9	3+50	@ 5' LT.	292.85	-8.0%
10	15+86	@ 30' RT.	280.66	-3.8%
14	14+71	@ 30' RT.	284.36	-2.9%
15	13+01	@ 30' RT.	288.78	-2.5%
16	1+15	@ 20' LT.	282.66	-1.6%
17	2+45	@ 20' LT.	287.30	-5.4%
18	4+53	@ 7' LT.	302.50	+4.7%
2-A	1+53	@ 10' LT.	305.51	+4.0%



NOTE: CONTRACTOR SHALL CONCRETE ENCASE 8-INCH WATER MAIN FOR 18 FT. ON EITHER SIDE OF 10" STORM DRAIN CROSSING.



PROFILE SCALE: HORIZ. 1"=100' VERT. 1"=10'



PROPOSED FUTURE SECTION MAYFIELD MANOR

PLAN SCALE: 1"=50'

HOWARD SOIL CONSERVATION DISTRICT REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS
 Approved: *James M. Adams* 8-28-80
 SOIL CONSERVATION DISTRICT DATE
 THIS PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
 Approved: *Wm. T. Adams* 8-28-80
 HOWARD SOIL CONSERVATION DIST. DATE



WATER AND SEWER EXTENSION MAYFIELD MANOR, SECTION ONE CONTRACT NO. 14-0926-D

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND
 Director: *John F. Neuman* 9-2-80
 Chief-Bureau of Public Works DATE
 Chief-Bureau of Engineer. DATE

Chief: *James A. Ellis* 8/28/80
 Chief-Bureau of Utilities DATE
 Chief-Land Development DATE

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

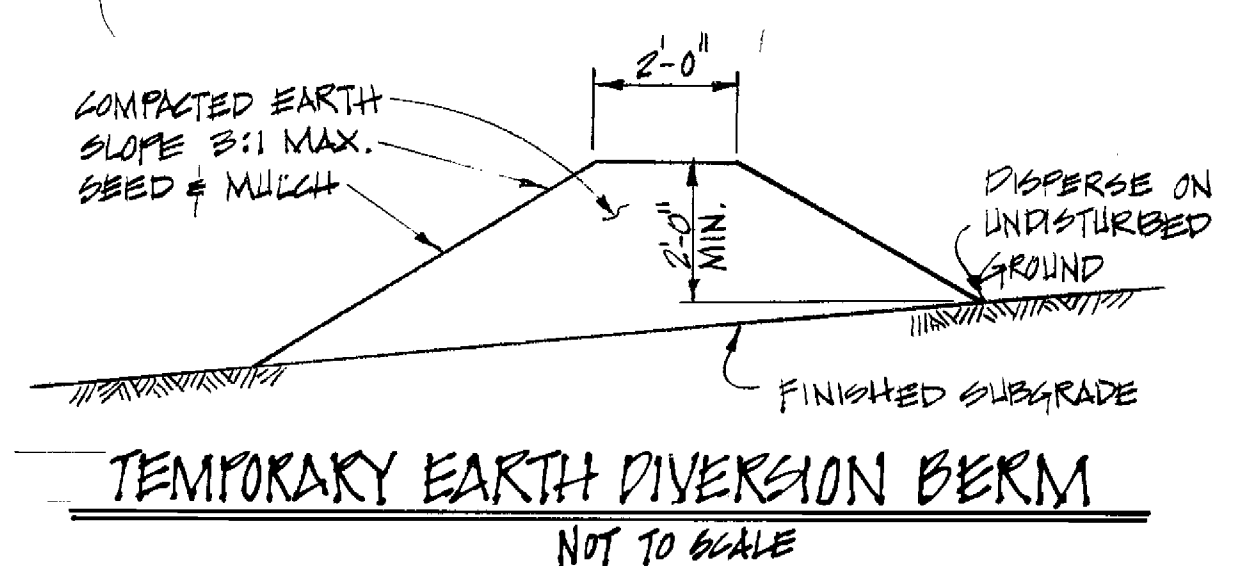
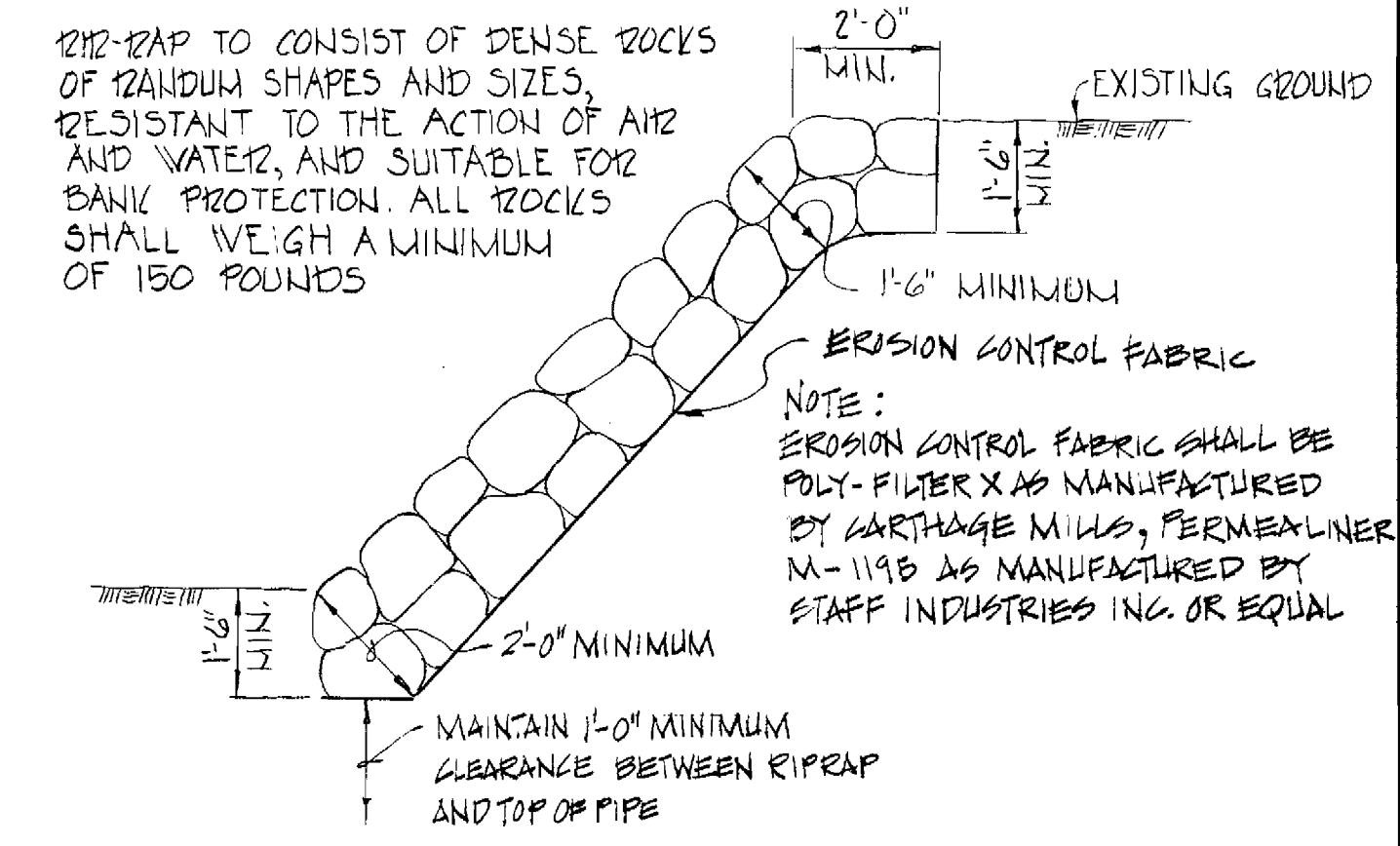
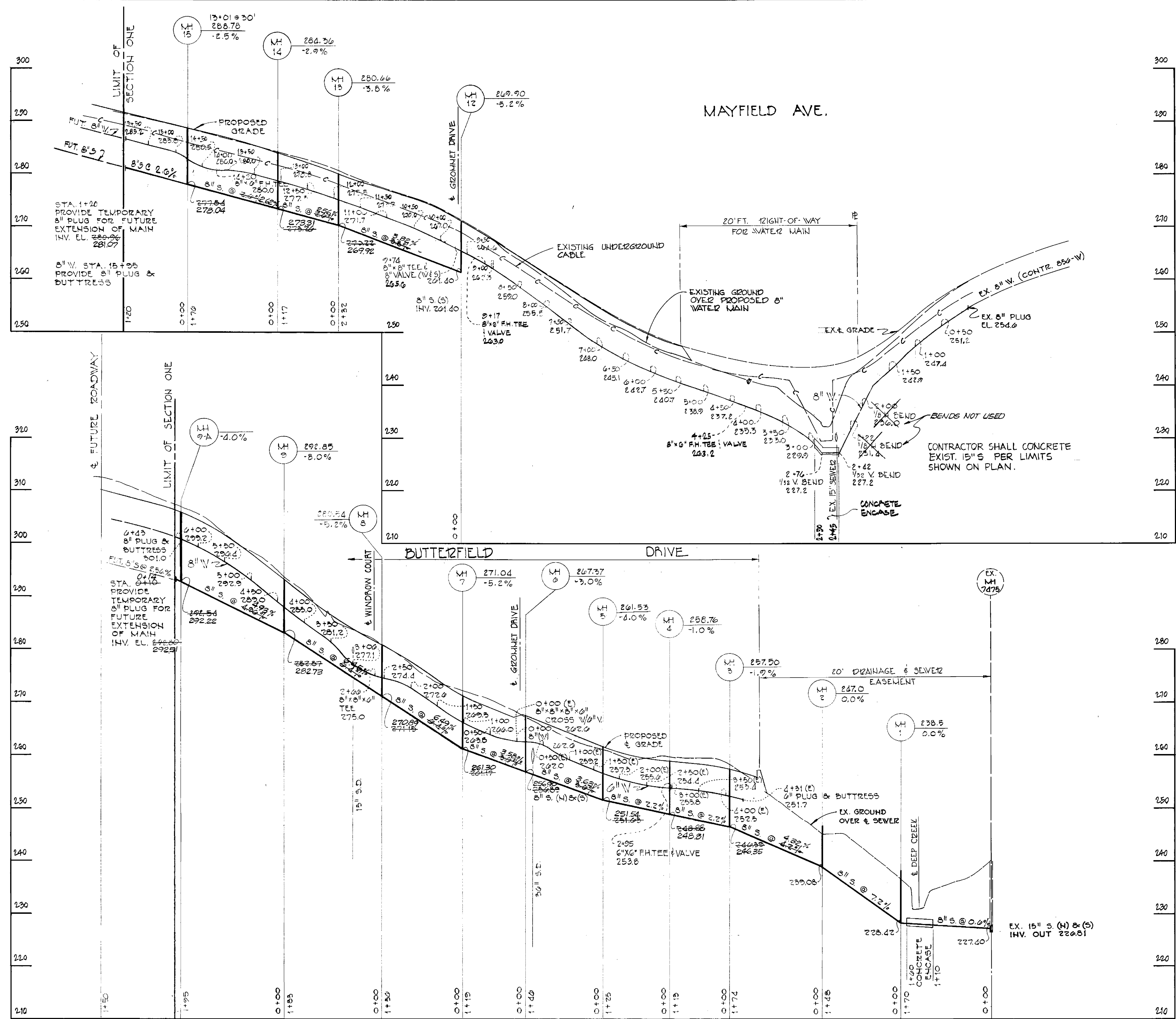
CONTRACT NO. 14-0926-D

PLAN & PROFILE
 WATER AND SEWER MAINS

REVISION NO.	DATE	DESCRIPTION
1	9-16-80	MAN. ENCASED FROM MH 6 TO MH 11

MAYFIELD MANOR
 1st ELECTION DISTRICT
 HOWARD CO., MARYLAND

DRAWING NO. 2 OF 3
 SCALE AS SHOWN

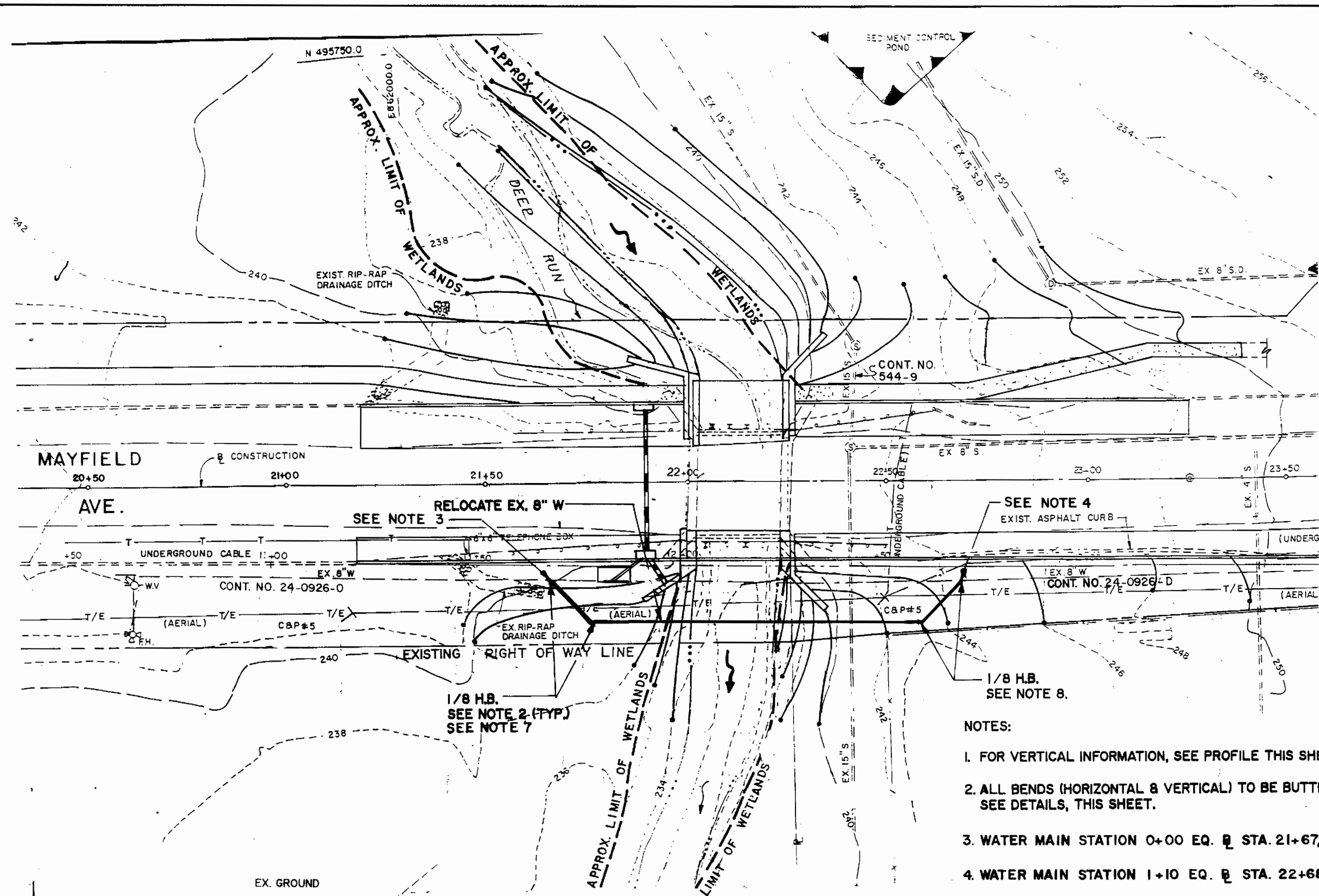


HOWARD SOIL CONSERVATION DISTRICT:
 REVIEWED FOR HOWARD SOIL CONSERVATION
 DISTRICT AND MEETS TECHNICAL REQUIREMENTS
James M. Helm 8-28-80
 DATE
 SOIL CONSERVATION SERVICE
 THIS PLAN IS APPROVED FOR SOIL EROSION
 AND SEDIMENT CONTROL BY THE HOWARD
 SOIL CONSERVATION DISTRICT.
Wm T. Rame 8-28-80
 DATE
 HOWARD SOIL CONSERVATION DISTRICT

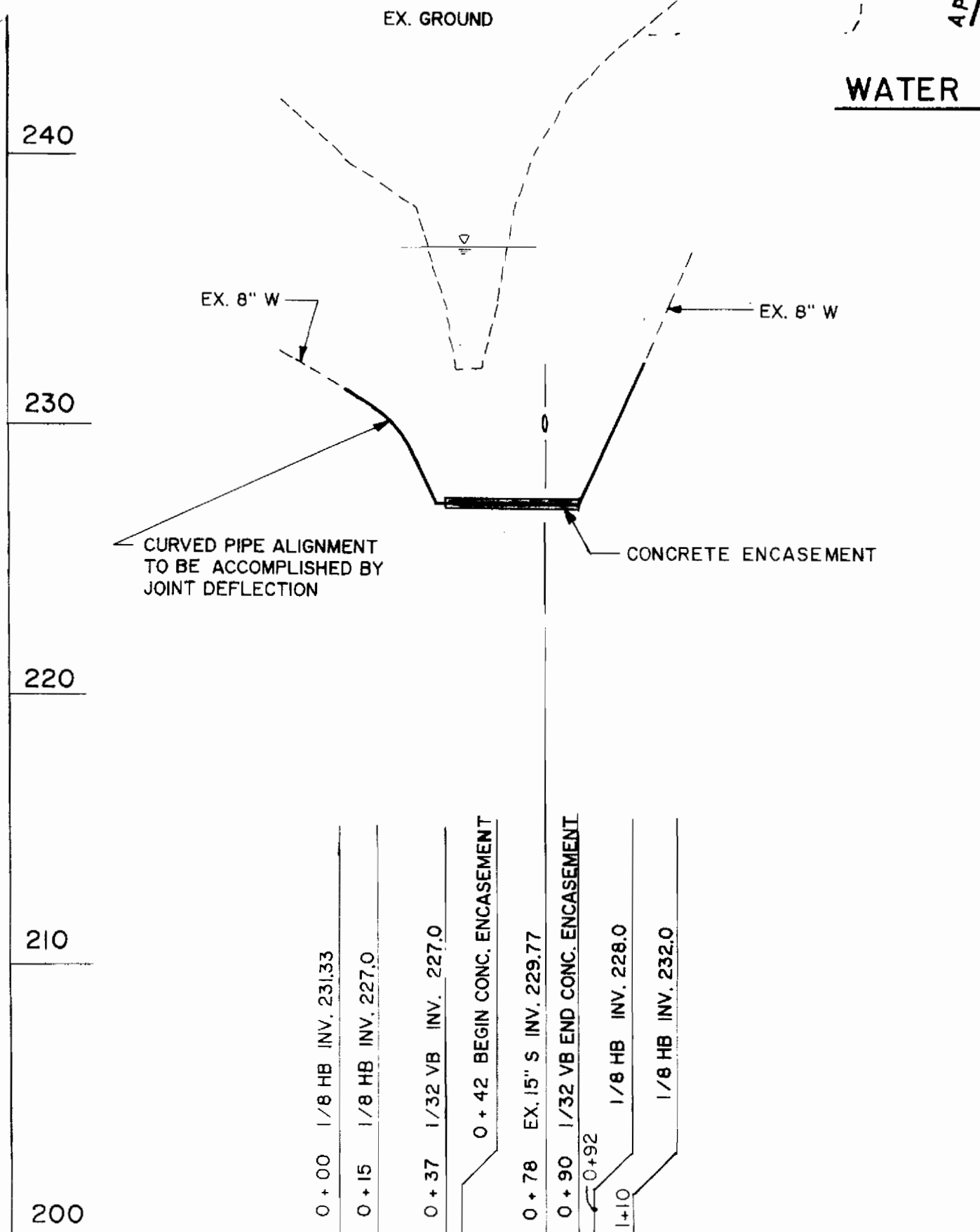


WATER AND SEWER EXTENSION
 MAYFIELD MANOR, SECTION ONE
 CONTRACT NO. 14-0926-D

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND <i>Henry F. Neumayr</i> 9-2-80 DIRECTOR OF PUBLIC WORKS DATE <i>James L. Glavin</i> 8/29/80 CHIEF - BUREAU OF UTILITIES DATE <i>William S. Ray</i> 9-2-80 CHIEF - BUREAU OF ENGINEER. DATE <i>William S. Ray</i> 9-2-80 CHIEF - LAND DEVELOPMENT DATE		PURDUM & JESCHKE ENGINEERS 1023 N. CALVERT ST. BALTIMORE, MARYLAND		CONTRACT NO. 14-0926-D		PROFILE WATER AND SEWER MAINS		MAYFIELD MANOR 1st ELECTION DISTRICT HOWARD CO., MARYLAND		DRAWING NO. 3 OF 3 SCALE AS SHOWN	
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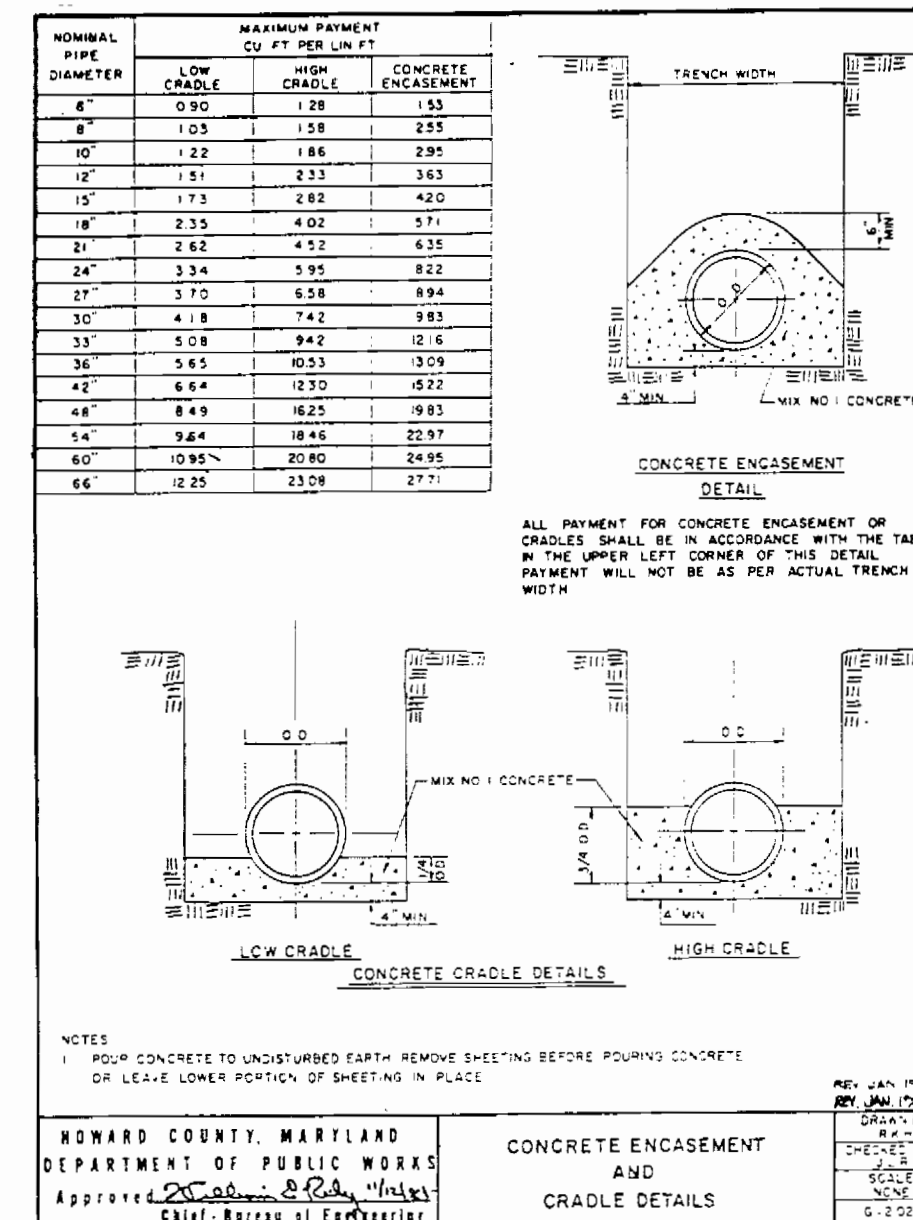
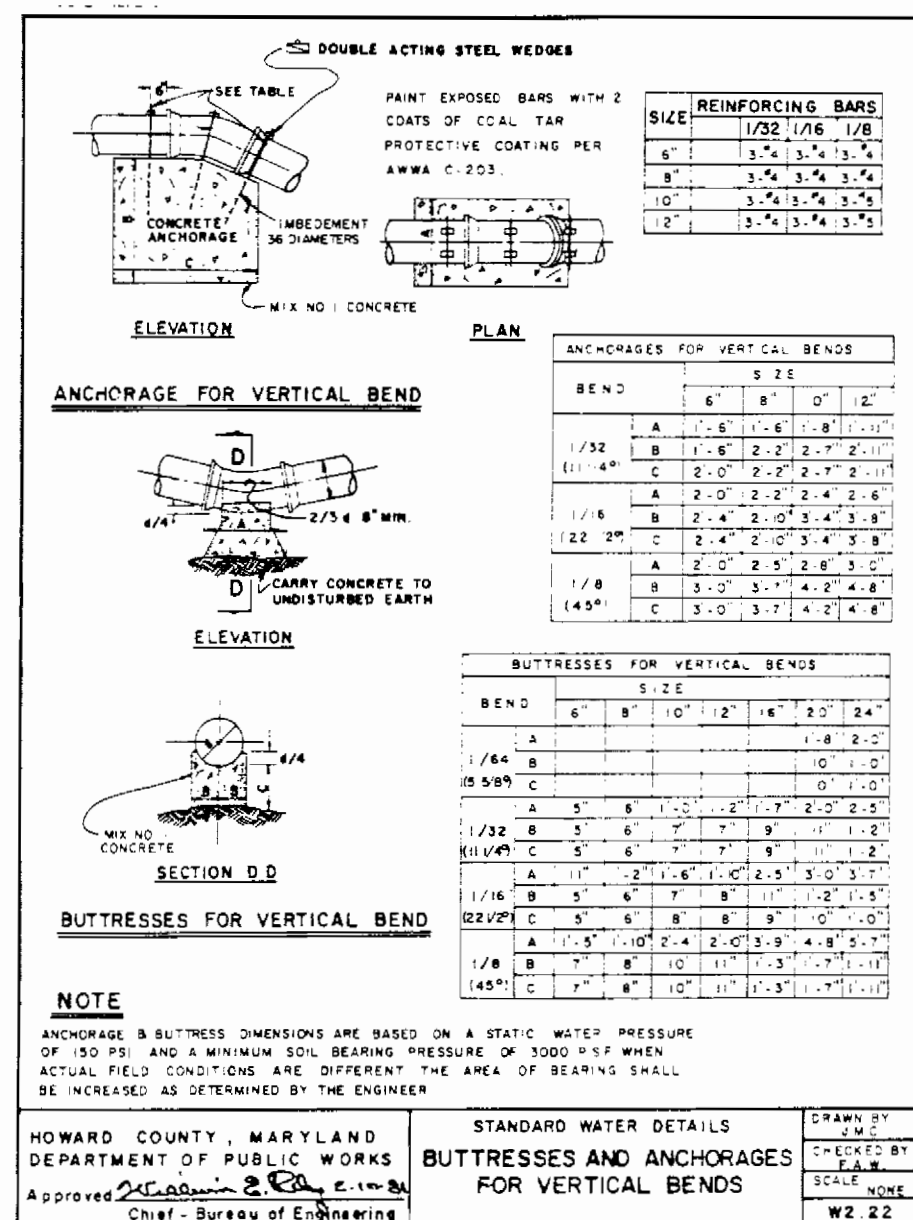
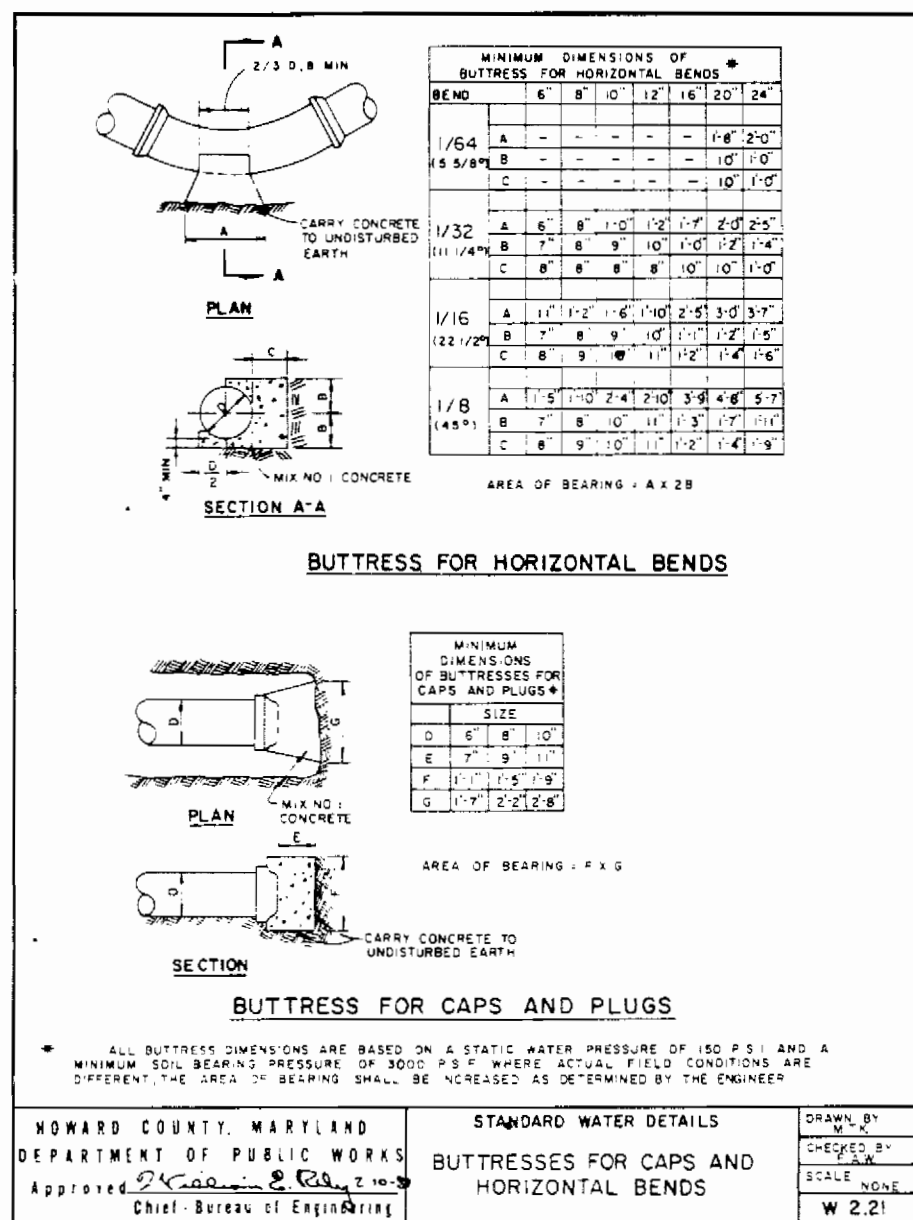
WATER MAIN RELOCATION - PLAN
SCALE: 1" = 20'



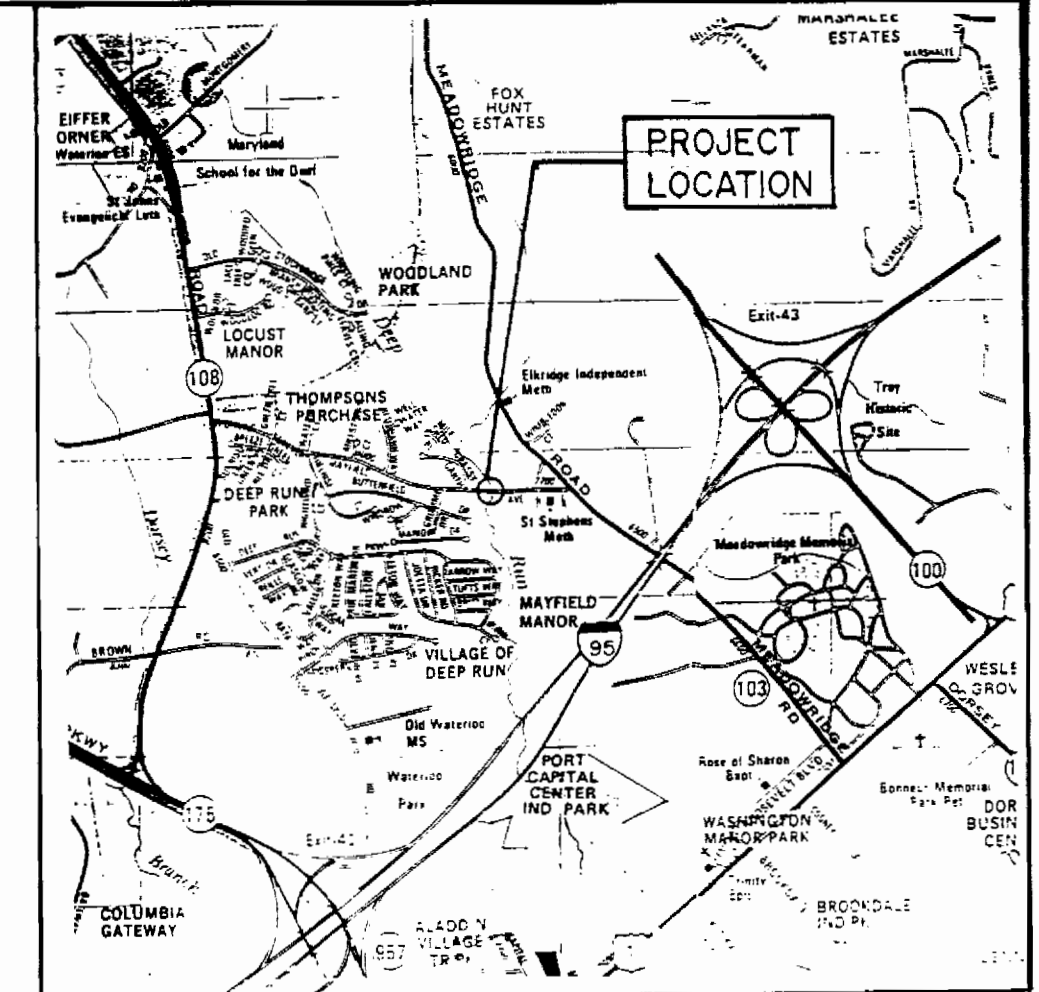
8" WATER PROFILE
SCALE: HORIZ. 1"=50'
VERT. 1"=5'

NOTES:

1. FOR VERTICAL INFORMATION, SEE PROFILE THIS SHEET.
2. ALL BENDS HORIZONTAL & VERTICAL TO BE BUTTRESSED, SEE DETAILS, THIS SHEET.
3. WATER MAIN STATION 0+00 EQ. @ STA. 21+67, 24' RT.
4. WATER MAIN STATION 1+10 EQ. @ STA. 22+68, 25' RT.
5. WATER MAIN SHALL BE TYPE I DUCTILE IRON PIPE.
6. THIS SHEET TO BE USED ONLY FOR WATERMAIN RELOCATION. SEE SHEET 2 FOR OTHER ITEMS.
7. WATER MAIN STATION 0+15 EQ. @ STA. 21+75, 35' RT. ±
8. WATER MAIN STATION 0+92 EQ. @ STA. 22+59, 36' RT. ±
9. WATER MAIN CONSTRUCTION SHALL BE PERFORMED AFTER PHASE III SEDIMENT & EROSION CONTROLS ARE IN PLACE (SEE SHEET 19).



- GENERAL NOTES**
- PART I**
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 to the satisfaction of the Engineer at the Contractor's expense.
 2. All horizontal controls are based on Maryland State Coordinates.
 3. All vertical controls are based on U.S.C.S. data.
 4. All pipe elevations shown are invert elevations.
 5. Clear all utilities by a minimum of 6". Clear all poles by 2'-0" minimum or tunnel as required. The owner has contacted the utility 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.
 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.
 7. 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 the 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 located by the contractor two weeks in advance of construction operations at his own expense.
 8. Contractor shall notify the following utility companies or agencies at least five working days before starting work shown on these plans:
 - State Highway Administration - 531-5333
 - Baltimore Gas & Electric Co. - Contractor Services 850-4420
 - Baltimore Gas & Electric Co. Under Ground Damage Control - 856-9004
 - Baltimore Gas & Electric Co. Trouble Shooting - 298-9001
 - Miss Utility - 1-800-251-7777
 - Colonial Pipeline Co. - 393-1300
 - Bureau of Utilities, Howard County Department of Public Works - 992-2366
 9. Trees and shrubs are to be protected from damage to maximum extent. Trees and shrubs located within the construction strip are not to be removed or damaged by the contractor.
 10. 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.
- PART II - WATER**
1. All water mains to be D.I.P. Class 52 unless otherwise noted.
 2. Tops of all water mains to have a minimum of 3'-1/2" cover unless otherwise noted.
 3. Valves adjacent to tees shall be strapped to tees.
 4. All fittings shall be buttressed or anchored with concrete in accordance with the Standard Details unless otherwise provided for on the drawings.
 5. Fire hydrants shall be set to the bury line elevations shown on the drawings. All fire hydrants shall be strapped and buttressed with concrete in accordance with Standard Details. Soil around the fire hydrant shall be compacted in accordance with Section 1003 of the Standard Specifications.
 6. The contractor shall not operate any water main valves on the existing water system.
 7. Coordinate Abandonment And Tie In With Bureau of Utilities Five Working Days Prior To Scheduled Work.



LOCATION MAP
SCALE: 1" = 1/2 MILE

MATERIALS LIST		AS-BUILT	TYPE MAT'L	SUPPLIER
(ITEM SHALL BE PAID FOR UNDER LUMP SUM BID FOR 8" WATER MAIN RELOCATION). SEE SPECIAL PROVISIONS.				
ITEM	ESTIMATED QTY.			
8" D.I.P.	110 LF.			
8" - 1/8" HB	4 EA.			
1/32 VB	2 EA.			
BUTTRESSES	6 EA.			
CONCRETE ENCASEMENT	90 LF.			