

GENERAL NOTES

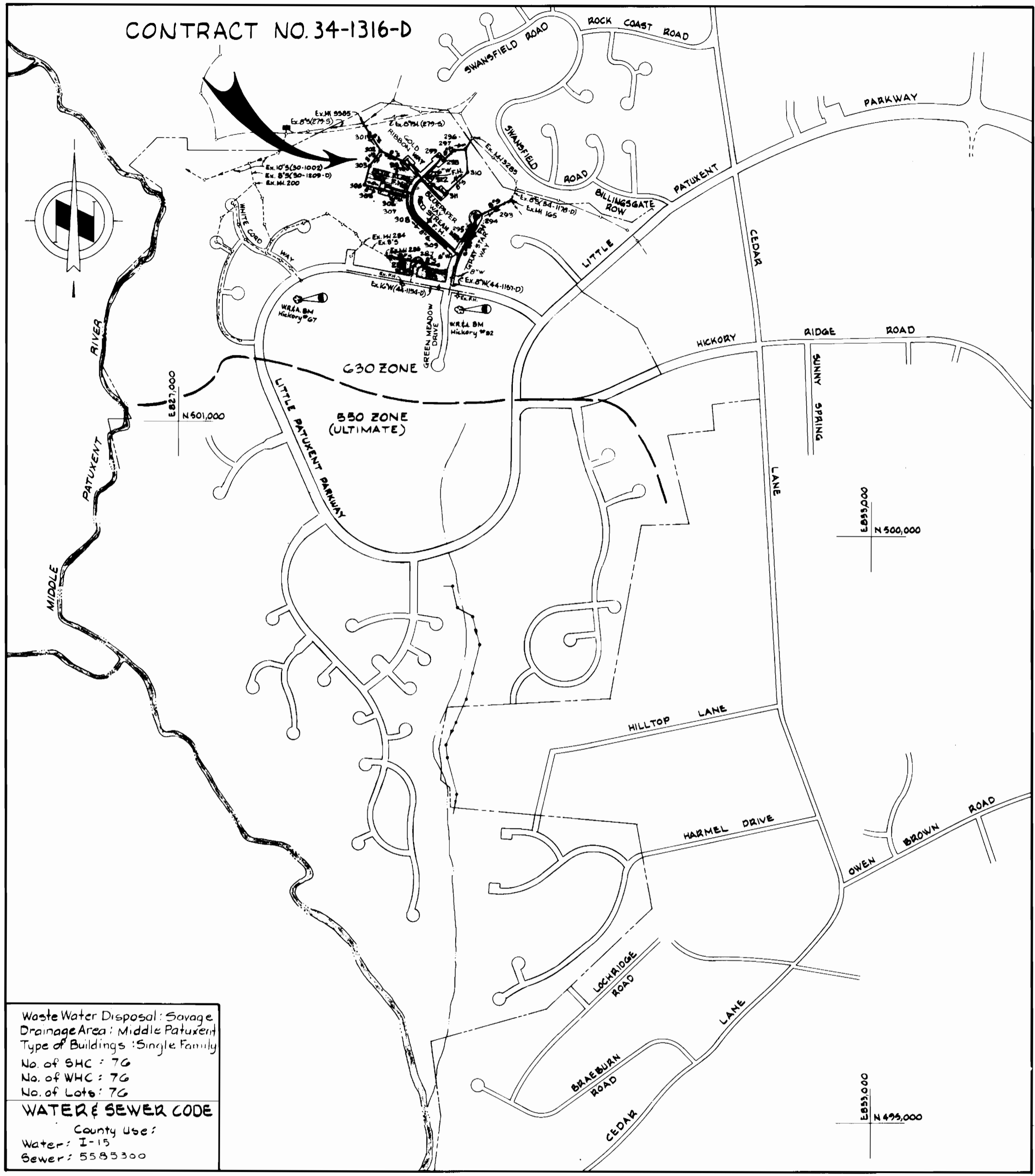
- APPROXIMATE LOCATION OF EXISTING MAINS ARE SHOWN. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT EXISTING MAINS AND SERVICES AND MAINTAIN UNINTERRUPTED SUPPLY. ANY DAMAGE INCURRED SHALL BE REPAIRED IMMEDIATELY TO THE SATISFACTION OF THE ENGINEER AT THE CONTRACTOR'S EXPENSE.
- ALL HORIZONTAL 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.
- 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 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.
- CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITIES OR AGENCIES AT LEAST FIVE WORKING DAYS BEFORE STARTING WORK SHOWN ON THESE PLANS:
  - STATE HIGHWAY ADMINISTRATION - 531-5533
  - BALTIMORE GAS & ELECTRIC CO. - CONTRACTOR SERVICES 561-2585
  - BALTIMORE GAS & ELECTRIC CO. - UNDER GROUND DAMAGE CONTROL - 234-5621
  - BALTIMORE GAS & ELECTRIC CO. TROUBLE SHOOTING - 298-9013
  - MISS UTILITY - 1 - 559-0100
  - COLONIAL PIPELINE CO. - 795-1390
  - BUREAU OF UTILITIES, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS - 992-2366.
- 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.
- CONTRACTOR SHALL REMOVE TREES, STUMPS AND ROOTS ALONG LINE OF EXCAVATION.
- ALL WATER MAINS TO BE D.I.P. UNLESS OTHERWISE NOTED.
- TOPS 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.
- 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 THE STANDARD SPECIFICATIONS.
- THE CONTRACTOR SHALL NOT OPERATE ANY WATER MAIN VALVES ON THE EXISTING WATER SYSTEM.
- ALL SEWER MAINS SHALL BE C.S.P.X., R.C.S.P., V.C.P.X., A.C.P. CLASS 2400 OR P.V.C. UNLESS OTHERWISE NOTED.
- THE CONTRACTOR SHALL PROVIDE A JOINT IN ALL SEWER MAINS WITHIN 2'-0" OF EXTERIOR MANHOLE WALL.
- ALL MANHOLES SHALL BE 4'-0" INSIDE DIAMETER UNLESS OTHERWISE NOTED.
- MANHOLES SHOWN WITH 12" AND 16" WALLS ARE BRICK MANHOLES ONLY.
- MANHOLES DESIGNATED W.T. IN PLAN AND PROFILE SHALL HAVE WATERTIGHT FRAME AND COVERS, STANDARD DETAIL 6552. WHERE WATERTIGHT MANHOLE FRAME AND COVER IS USED SET TOP OF FRAME 0.5' ABOVE FINISHED GRADE UNLESS OTHERWISE NOTED ON THE DRAWINGS.
- ALL W.H.C.'S SHALL BE 3/4" UNLESS OTHERWISE NOTED.
- ALL COPPER WATER HOUSE CONNECTIONS SHALL UTILIZE FLARED FITTINGS.
- ORIGINAL GROUND OVER WATER AND SEWER WAS TAKEN FROM AERIAL PHOTOGRAPHY PREPARED BY MAPS AND INC., AND VERIFIED BY FIELD SURVEY IN FEBRUARY 1984.
- STRAW BALE DIKE AND SILT FENCE ARE INTERCHANGEABLE.
- ALL WATER HOUSE CONNECTIONS SHALL BE FOR AN INSIDE METER SETTING, UNLESS OTHERWISE NOTED.
- SET FRAMES OF MANHOLE NUMBERS 287, 293, 296, 297, 301, 302, 303, 304 AND 310 0.5' ABOVE EXISTING GROUND.

QUANTITIES			
ITEM	BID	AS-BUILT	MATERIAL/SUPPLIER
8" Water L.F.	1,250	1260	U.S. PIPE
6" Water L.F.	1,450	1450	" "
8" Valve Ea.	1	1	M&H VALVE CO
6" V (Excluding FHV) Ea	4	5	" "
1/2" Drain for W.Main Ea.	5	6	MUNICIPAL/CONST.
Fire Hydrant Ea.	4	4	M&H VALVE CO.
8" S (D.I.P.) L.F.	100	98	U.S. PIPE
8" Sewer L.F.	3,670	3555	NATIONAL SAN PIPE
Manholes Ea.	23	23	ATLANTIC PRECAST
1" WH Connections L.F.	1,000	976	CAMBRIDGE LEE
3/4" WH Connections L.F.	1,550	1671	" "
6" SH Connections L.F.	2,245	2091	NAT. PVC SAN. PIPE

CONSTRUCTION SEQUENCE  
SEDIMENT CONTROL PROCEDURES

- OBTAIN SEDIMENT CONTROL PERMIT (ARTICLE 15.05-3)
- CONSTRUCT CONTINUOUS SEDIMENT BARRIER FOR ALL DISTURBED AREAS NOT PROTECTED BY SEDIMENT TRAPS.
- CLEAR, GRUB AND STRIP AS REQUIRED TO PROTECT STREAM FROM EROSION OF STORED TOP SOIL. SEPARATE TOP SOIL FROM SUBSOIL.
- CONSTRUCT PIPELINE.
- ALL EXCAVATED MATERIAL SHALL BE STOCKPILED ON HIGH SIDE OF TRENCH.
- RESTORE EROSION CONTROL STRUCTURES DISTURBED BY SEWER CONSTRUCTION.
- STABILIZE DISTURBED AREAS AS CONSTRUCTION PROGRESSES WITH TEMPORARY SEEDING AND MULCHING (OR PERMANENT RESTORATION).
- COMPLETE PERMANENT RESTORATION.
- ALL SEDIMENT CONTROL DEVICES SHALL REMAIN IN SERVICE UNTIL REMOVAL IS APPROVED BY THE S.C.S. INSPECTOR.
- RESTORATION (TEMPORARY OR PERMANENT) OF AN AREA BETWEEN MANHOLES SHALL FOLLOW WITHIN ONE WEEK OF PIPELAYING IN THAT AREA.

CONTRACT NO. 34-1316-D  
VILLAGE OF HICKORY RIDGE  
HOWARD COUNTY, MARYLAND  
DEPARTMENT OF PUBLIC WORKS



Waste Water Disposal: Savage  
Drainage Area: Middle Patuxent  
Type of Buildings: Single Family  
No. of SHC: 76  
No. of WHC: 76  
No. of Lots: 76  
WATER & SEWER CODE  
County Use:  
Water: I-15  
Sewer: 5593300

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENT  
*James M. ...* 3-1-85  
SIGNATURE DATE  
U.S. SOIL CONSERVATION SERVICE  
This Development Plan is approved for Soil Erosion and Sediment Control by the Howard County Conservation District.  
APPROVED: *Stephen ...* 3/1/85  
HOWARD S.C.D. DATE

Sediment Control Measures for this Contract will be implemented in accordance with Article 15 of the Standard Specifications, and Road Construction Plans F-85-60.

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND  
*Mark F. ...* 3-6-85  
DIRECTOR OF PUBLIC WORKS-DATE  
*Robert M. ...* 3-22-85  
CHIEF - BUREAU OF UTILITIES-DATE

WHITMAN, REQUARDT AND ASSOCIATES ENGINEERS  
2315 ST. PAUL ST.  
BALTIMORE, MARYLAND  
*William E. ...* 3-18-85  
CHIEF - BUREAU OF ENGINEERING-DATE  
*William E. ...* 3-18-85  
CHIEF - LAND DEVELOPMENT DIVISION-DATE

DES	S.J.				
DRN	J.R.K.				
CHK	R.B.N.				
DATE		BY	NO.	REVISION	DATE

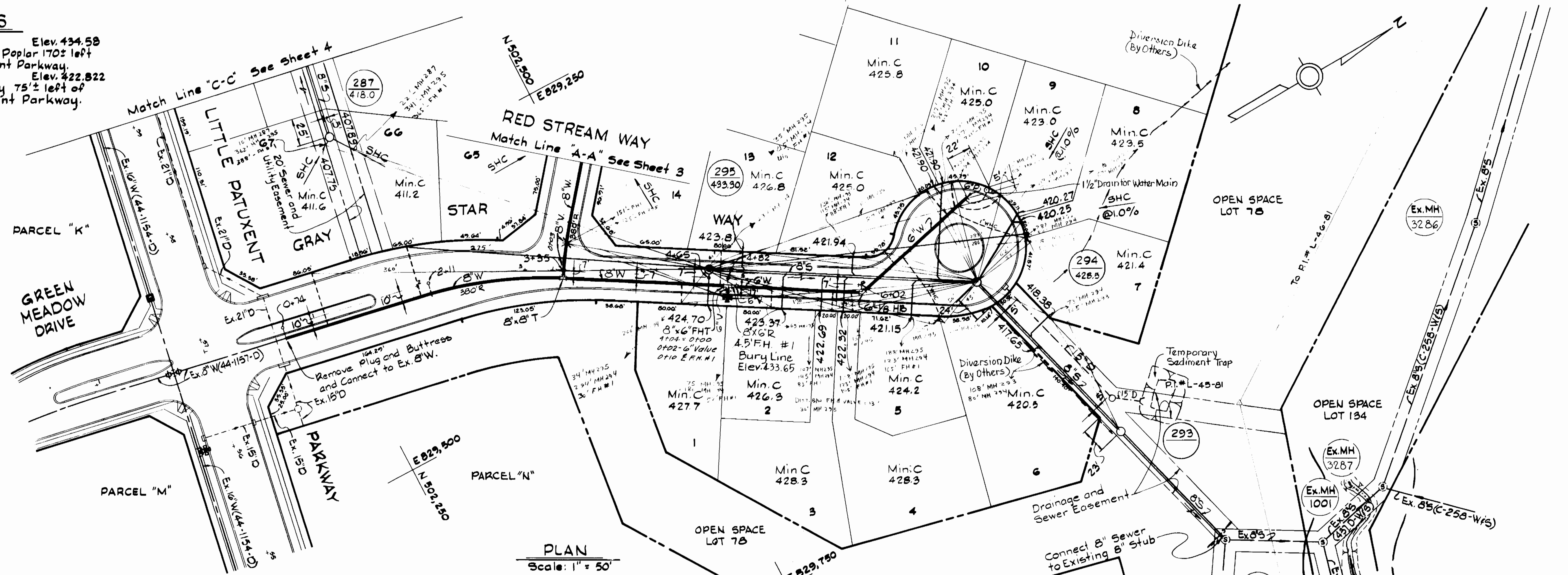
VICINITY MAP AND GENERAL NOTES  
600 SCALE MAP NO. 35 BLOCK NO.

COLUMBIA  
VILLAGE OF HICKORY RIDGE  
SECTION 3 AREA 9  
ELECTION DISTRICT NO. 5  
CONTRACT NO. 34-1316-D

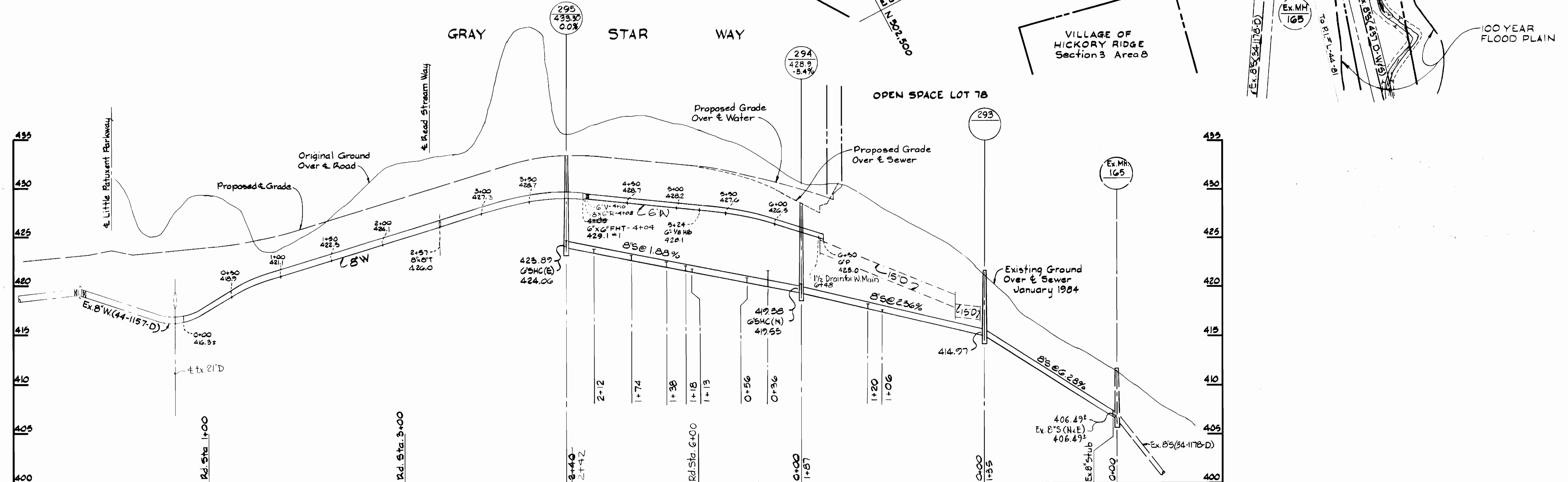
SCALE 1"=600'  
SHEET 1 OF 6

**BENCH MARKS**

W.R. & A. B.M. Hickory #82 Elev. 424.58  
 R.R. Spike in base 36" Sextuplet Paper 170± left  
 of Sta. 55+40± Little Patuxent Parkway.  
 W.R. & A. B.M. Hickory #73 Elev. 422.822  
 R.R. Spike in base 10" Cherry 75± left of  
 Sta. 65+40± Little Patuxent Parkway.



PLAN  
Scale: 1" = 50'



PROFILE: Scale: H: 1" = 50'  
V: 1" = 5'

DEPARTMENT OF PUBLIC WORKS  
 HOWARD COUNTY, MARYLAND  
 Director of Public Works - DATE  
 Chief - Bureau of Engineering - DATE  
 Chief - Bureau of Utilities - DATE  
 Chief - Land Development Division - DATE

WHITMAN, REQUARDT  
 AND ASSOCIATES  
 ENGINEERS  
 2315 ST. PAUL ST.  
 BALTIMORE, MARYLAND

DES: S.J.					
DRY: J.R.K.					
CHK: R.B.N.					
DATE:	BY:	NO.	REVISION	DATE	

PLAN & PROFILE OF  
 WATER & SEWER MAINS

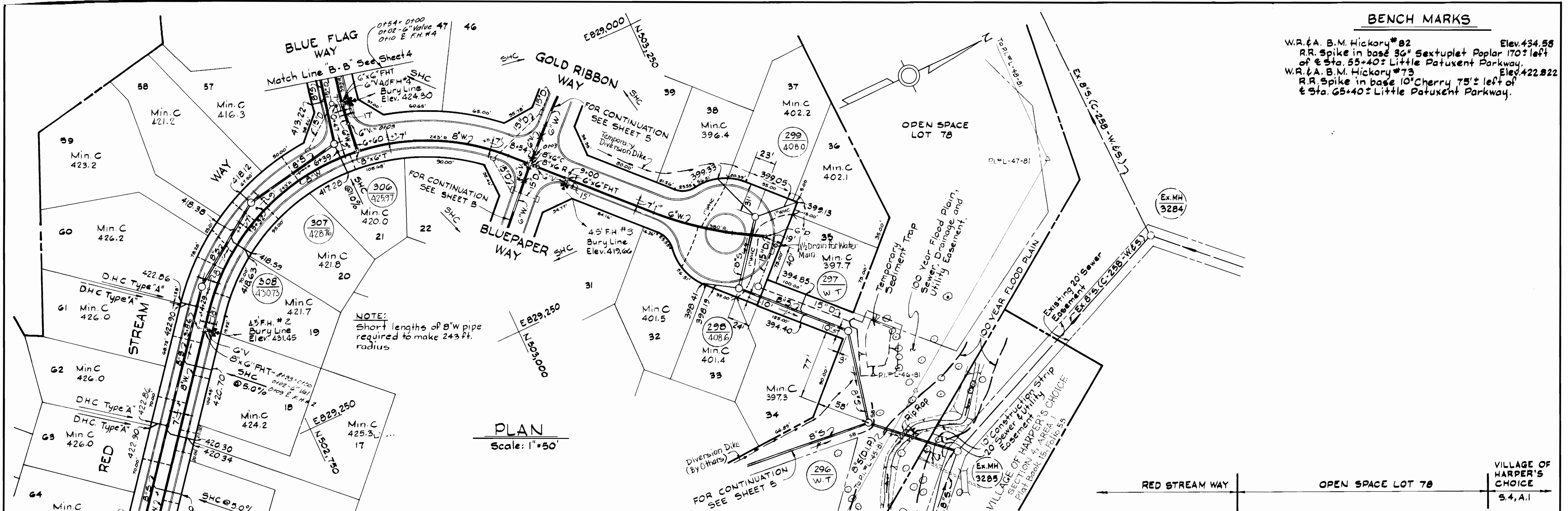
35,903-850  
35,902-850

COLUMBIA  
 VILLAGE OF HICKORY RIDGE  
 SECTION 3 AREA 9  
 ELECTION DISTRICT NO.5  
 CONTRACT NO 34-1316-D

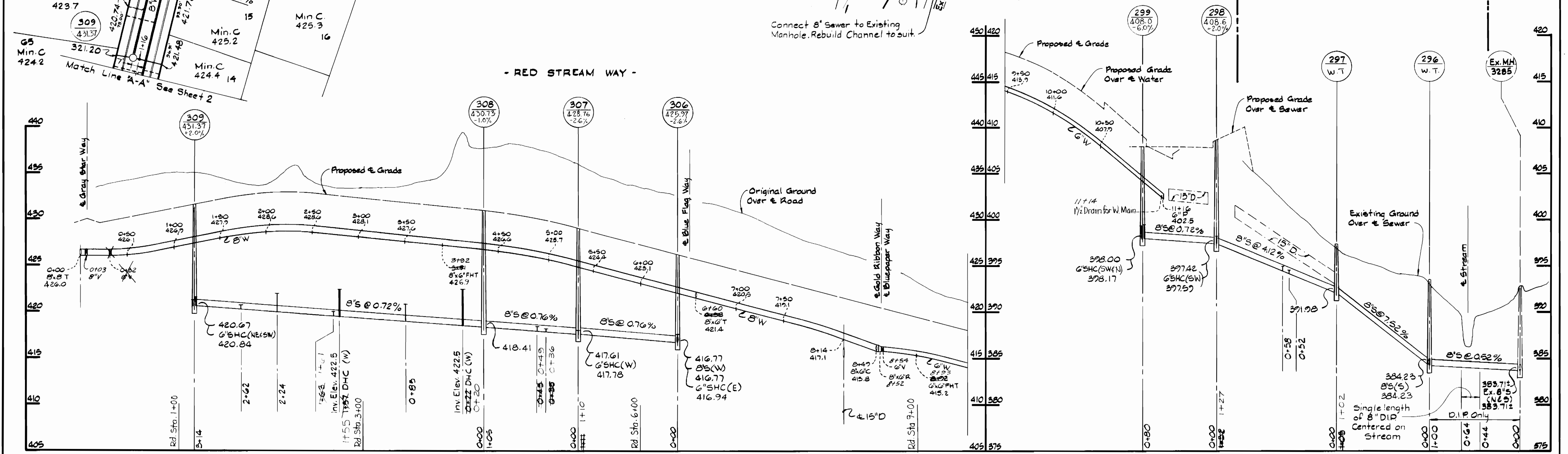
SCALE AS SHOWN  
 SHEET 2 OF 6

**BENCH MARKS**

W.R. & B.M. Hickory #82 Elev. 434.58  
 R.R. Spike in base 30" Sextuplet Poplar 170' left  
 of E. Sta. 55+40 Little Patuxent Parkway, Elev. 422.822  
 W.R. & B.M. Hickory #73 Elev. 422.822  
 R.R. Spike in base 10' Cherry 75' left of  
 E. Sta. 65+40 Little Patuxent Parkway.



**PLAN**  
 Scale: 1" = 50'



**PROFILE** Scale: H: 1" = 50', V: 1" = 5'

**DEPARTMENT OF PUBLIC WORKS**  
 HOWARD COUNTY, MARYLAND  
 Director of Public Works - DATE 3-6-85  
 Chief - Bureau of Engineering - DATE 3-6-85  
 Chief - Bureau of Utilities - DATE 3-6-85  
 Chief - Land Development Division - DATE 3-6-85

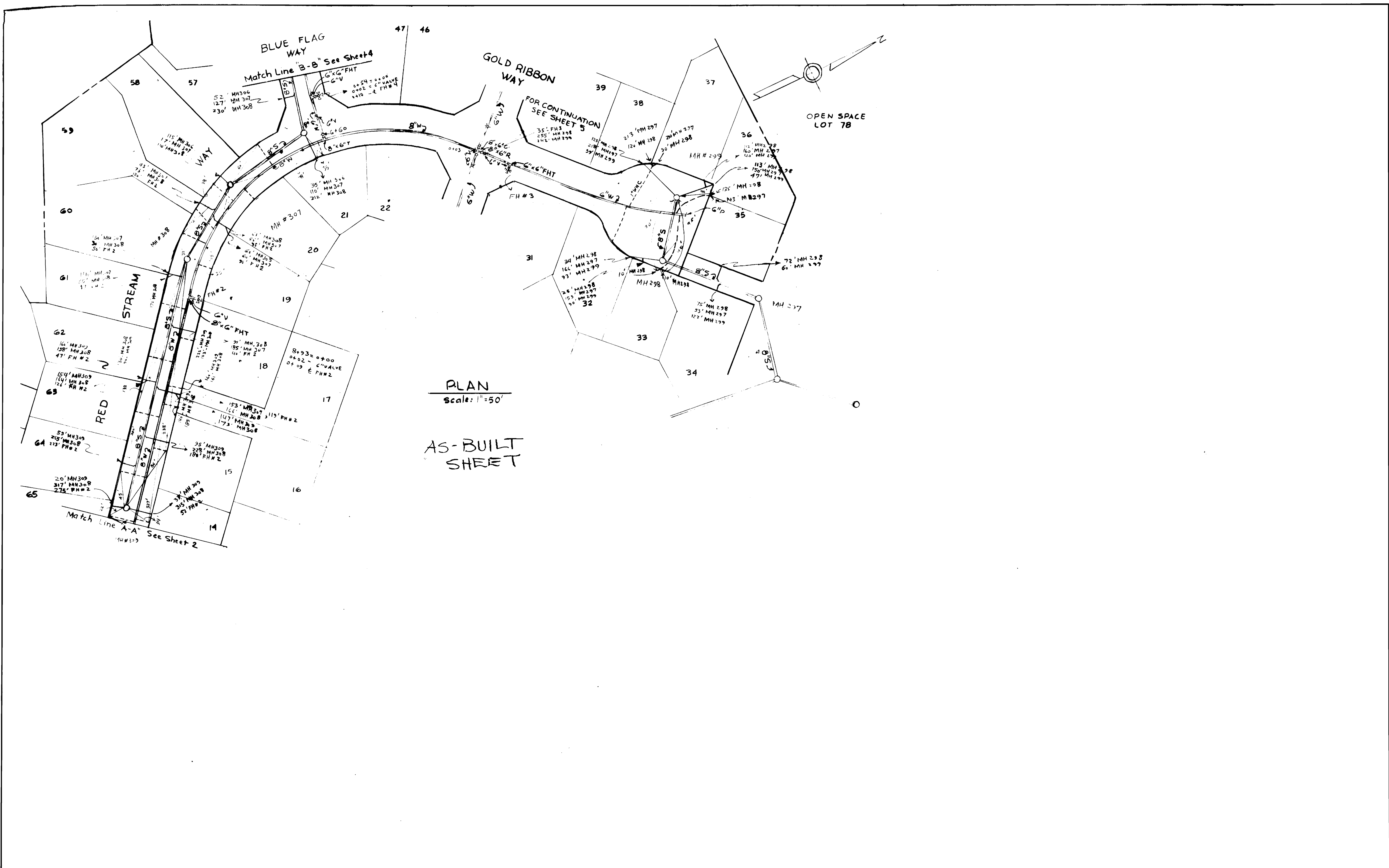
**WHITMAN, REQUARDT AND ASSOCIATES ENGINEERS**  
 2315 ST. PAUL ST.  
 BALTIMORE, MARYLAND

DES: S.J.	BY: NO.	REVISION	DATE
DRN: J.R.K.			
CHK: R.B.N.			
DATE:			

**PLAN & PROFILE OF WATER & SEWER MAINS**  
 600' SCALE MAP NO. 35 BLOCK NO. 4

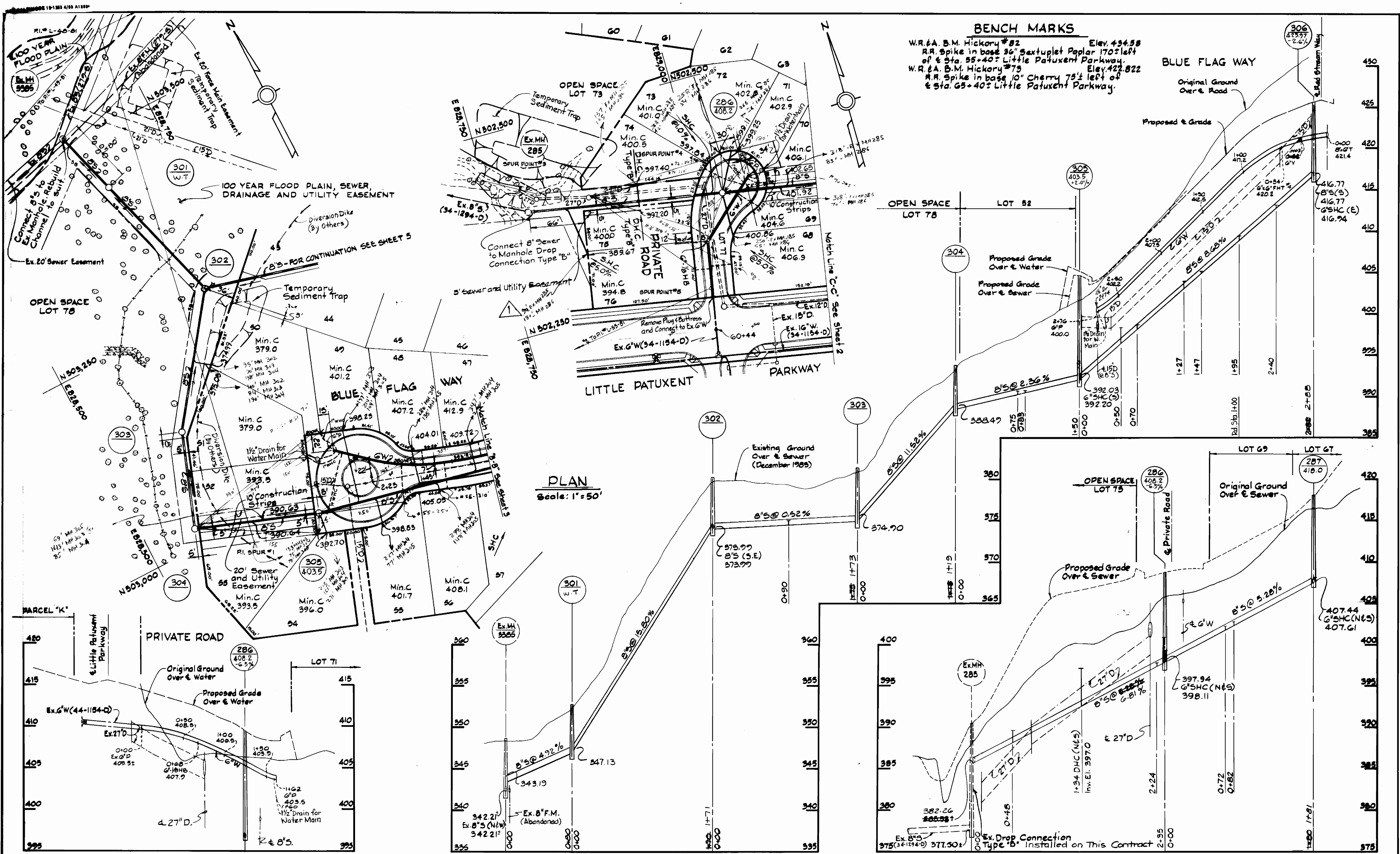
**COLUMBIA VILLAGE OF HICKORY RIDGE**  
 SECTION 3 AREA 9  
 ELECTION DISTRICT NO. 5  
 CONTRACT NO. 34-1316-D

SCALE AS SHOWN  
 SHEET 3 OF 6



BRUNING 44-132 681 50

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND						COLUMBIA VILLAGE OF HICKORY RIDGE		SCALE AS SHOWN	
DIRECTOR OF PUBLIC WORKS _____ DATE _____	CHIEF, BUREAU OF ENGINEERING _____ DATE _____	DES:						SHEET 3A OF 6	
		DRN:							
		CHK:							
		DATE:	BY	NO.	REVISION	DATE	600' SCALE MAP NO. _____ BLOCK NO. _____		
AS-BUILT								CONTRACT NO. 34-1316-D AS-BUILT JULY 21, 1986	



**BENCH MARKS**  
 W.R. & B.M. Hickory #82 Elev. 424.58  
 R.R. Spike in base 36" Sextuplet Paper 170' left of Sta. 55+40: Little Patuxent Parkway. Elev. 422.822  
 W.R. & B.M. Hickory #79 Elev. 422.822  
 R.R. Spike in base 10" Cherry 75' left of Sta. 65+40: Little Patuxent Parkway.

**PLAN**  
 Scale: 1" = 50'

**PROFILES**  
 Scale: H: 1" = 50'  
 V: 1" = 5'

DEPARTMENT OF PUBLIC WORKS  
 HOWARD COUNTY, MARYLAND  
 Director of Public Works - DATE  
 Chief - Bureau of Utilities - DATE

WHITMAN, REQUARDT  
 AND ASSOCIATES  
 ENGINEERS  
 2315 ST. PAUL ST.  
 BALTIMORE, MARYLAND

DES: S.J.  
 DBY: J.R.K.  
 CHK: R.B.N.  
 DATE: \_\_\_\_\_  
 BY NO. \_\_\_\_\_  
 REVISION \_\_\_\_\_  
 DATE \_\_\_\_\_

Revised Lot Lines

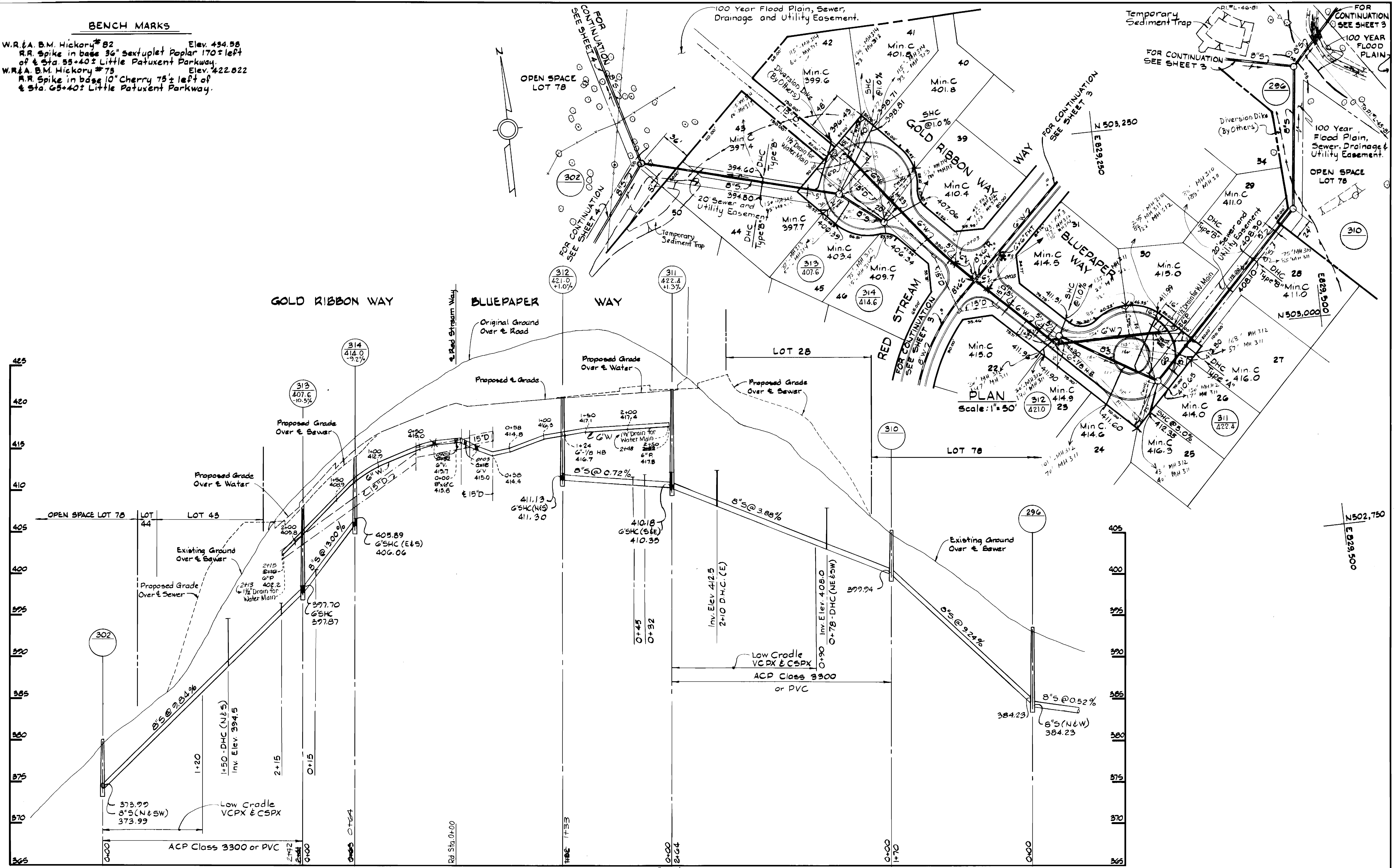
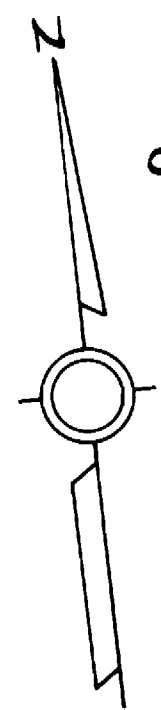
PLAN & PROFILE  
 WATER & SEWER MAINS

COLUMBIA  
 VILLAGE OF HICKORY RIDGE  
 SECTION 3 AREA 9  
 ELECTION DISTRICT NO. 5  
 CONTRACT NO. 34-1316-D

SCALE AS SHOWN  
 SHEET 4 OF 6

**BENCH MARKS**

W.R. & A. B.M. Hickory # 82 Elev. 434.58  
 R.R. Spike in base 36" sextuplet Poplar 170' left of Sta. 55+40 Little Patuxent Parkway.  
 W.R. & A. B.M. Hickory # 75 Elev. 422.822  
 R.R. Spike in base 10" Cherry 75' left of Sta. 65+40 Little Patuxent Parkway.



PROFILE: Scale: H. 1" = 50'  
 V. 1" = 5'

DEPARTMENT OF PUBLIC WORKS  
 HOWARD COUNTY, MARYLAND  
 Director of Public Works - DATE  
 Chief - Bureau of Engineering - DATE  
 Chief - Bureau of Utilities - DATE  
 Chief - Land Development Division - DATE

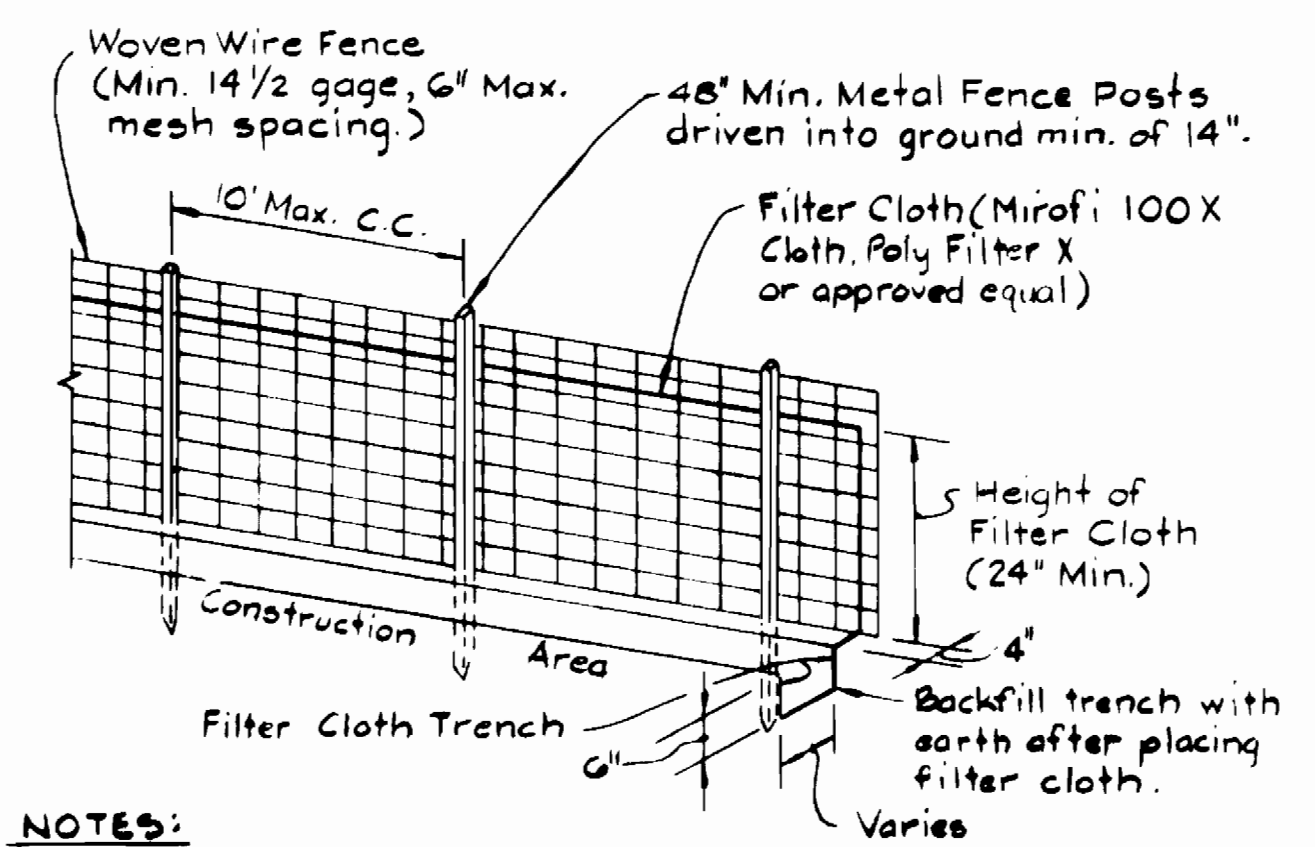
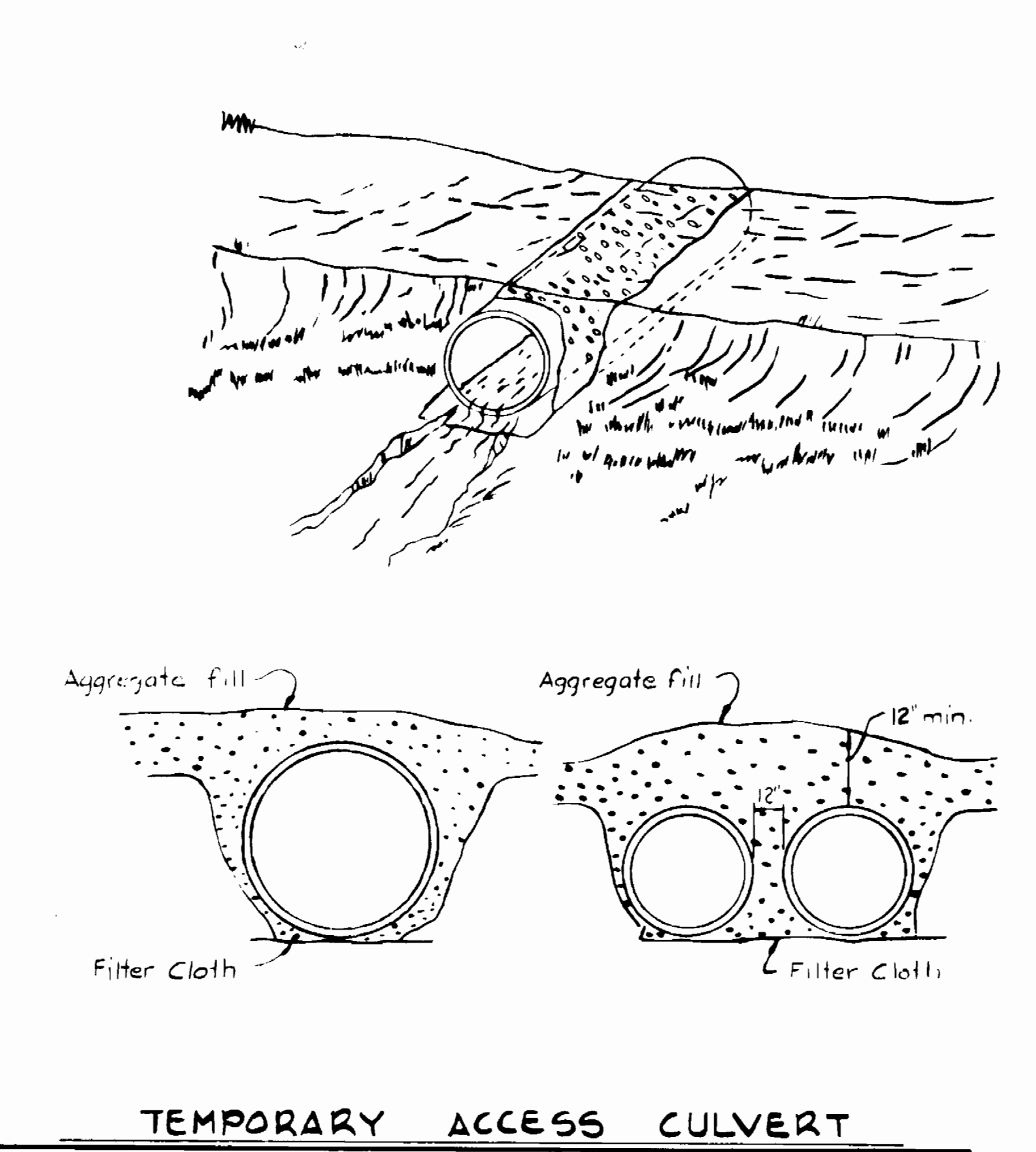
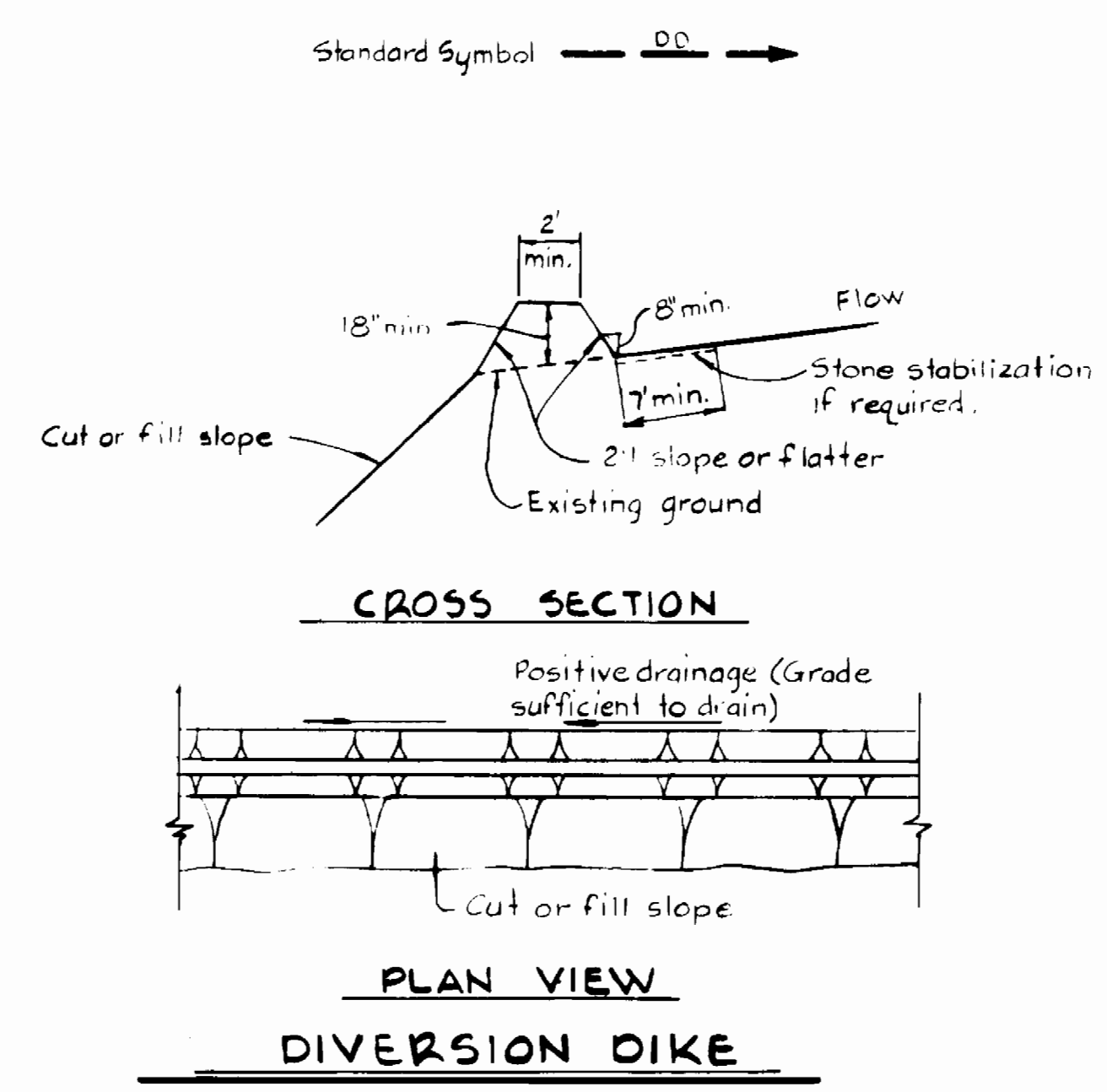
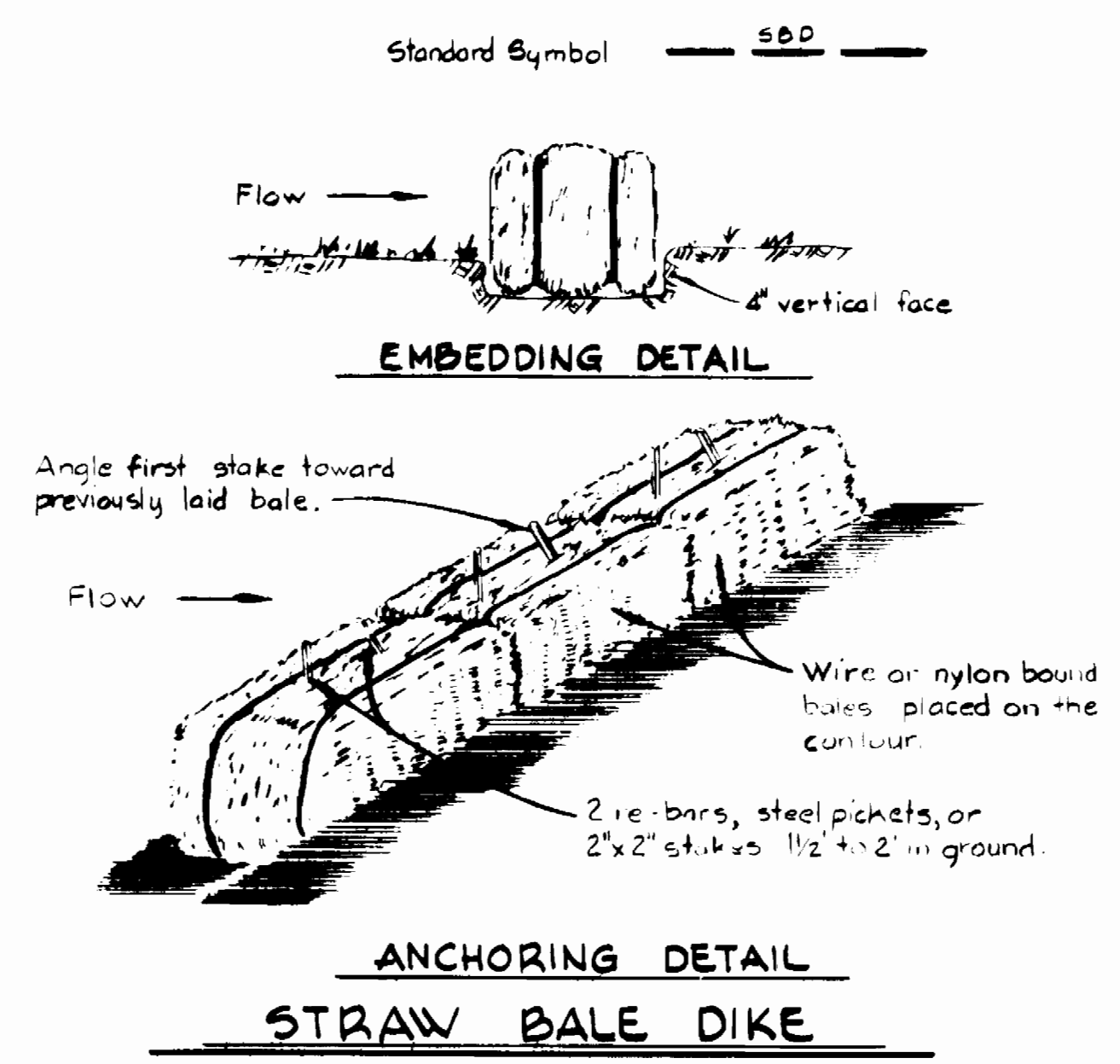
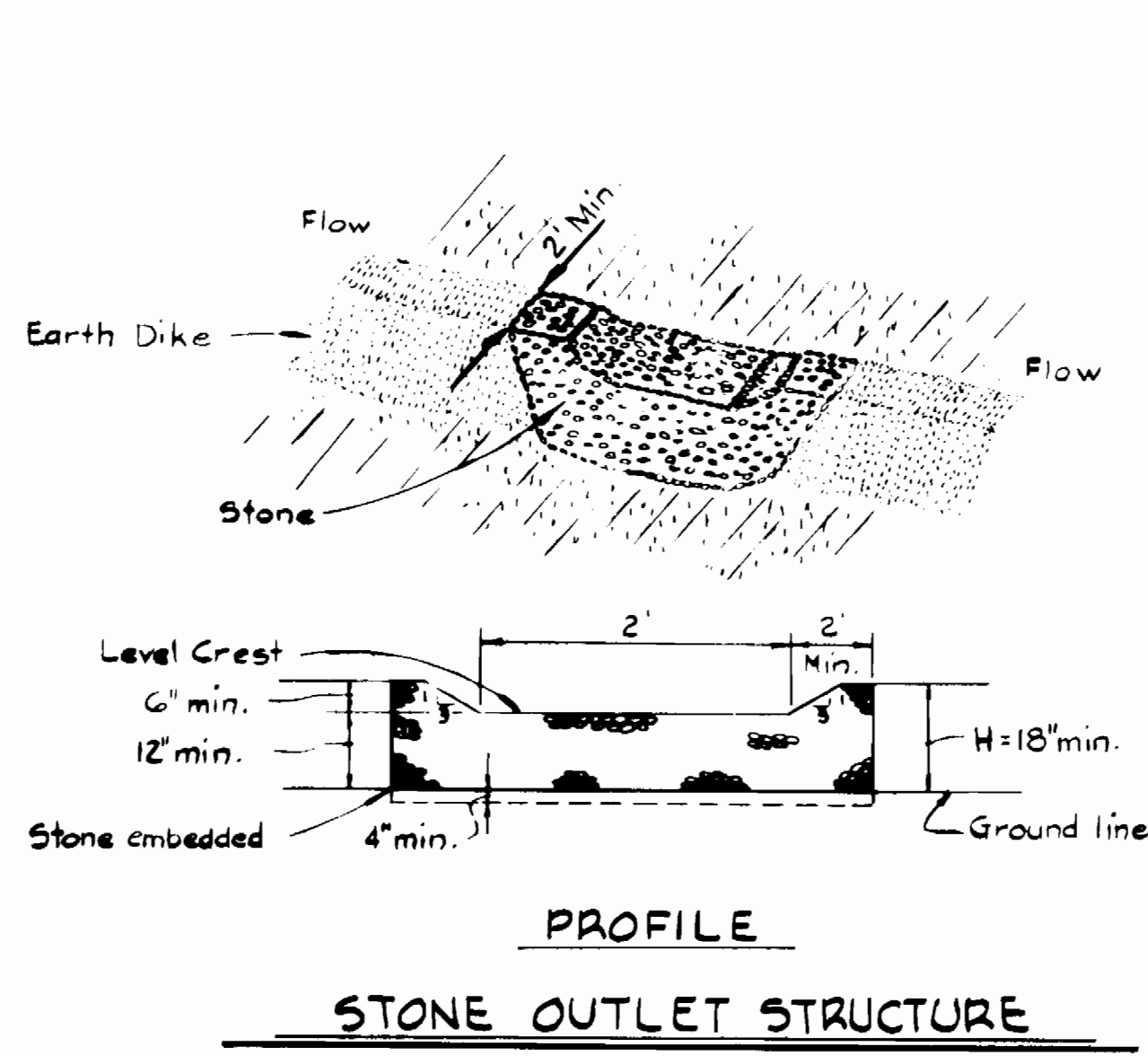
WHITMAN, REQUARDT  
 AND ASSOCIATES  
 ENGINEERS  
 2315 ST. PAUL ST.  
 BALTIMORE, MARYLAND

DES: S.J.	
DRN: J.R.K.	
CHK: R.B.N.	
DATE:	
BY NO.	
REVISION	
DATE	

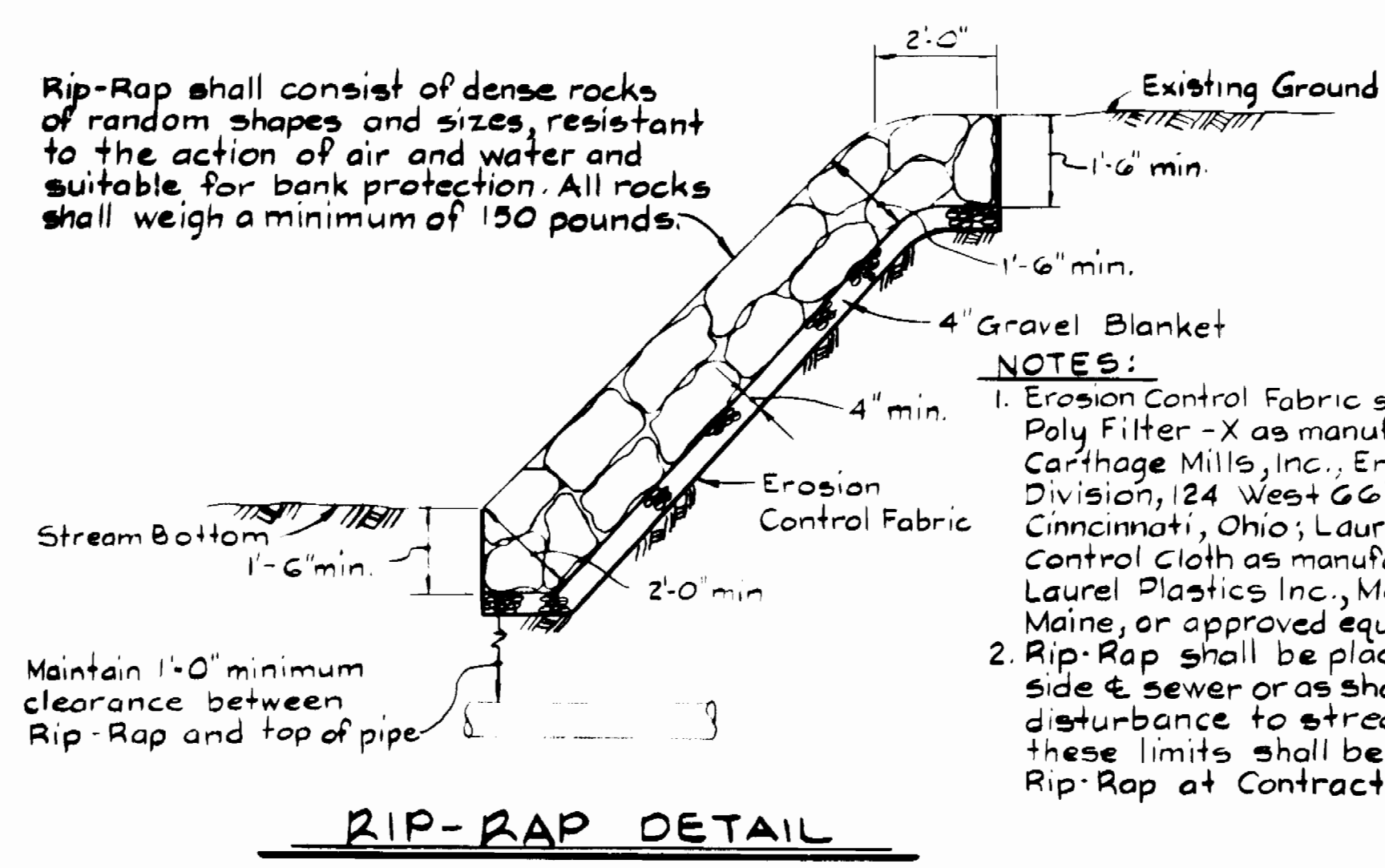
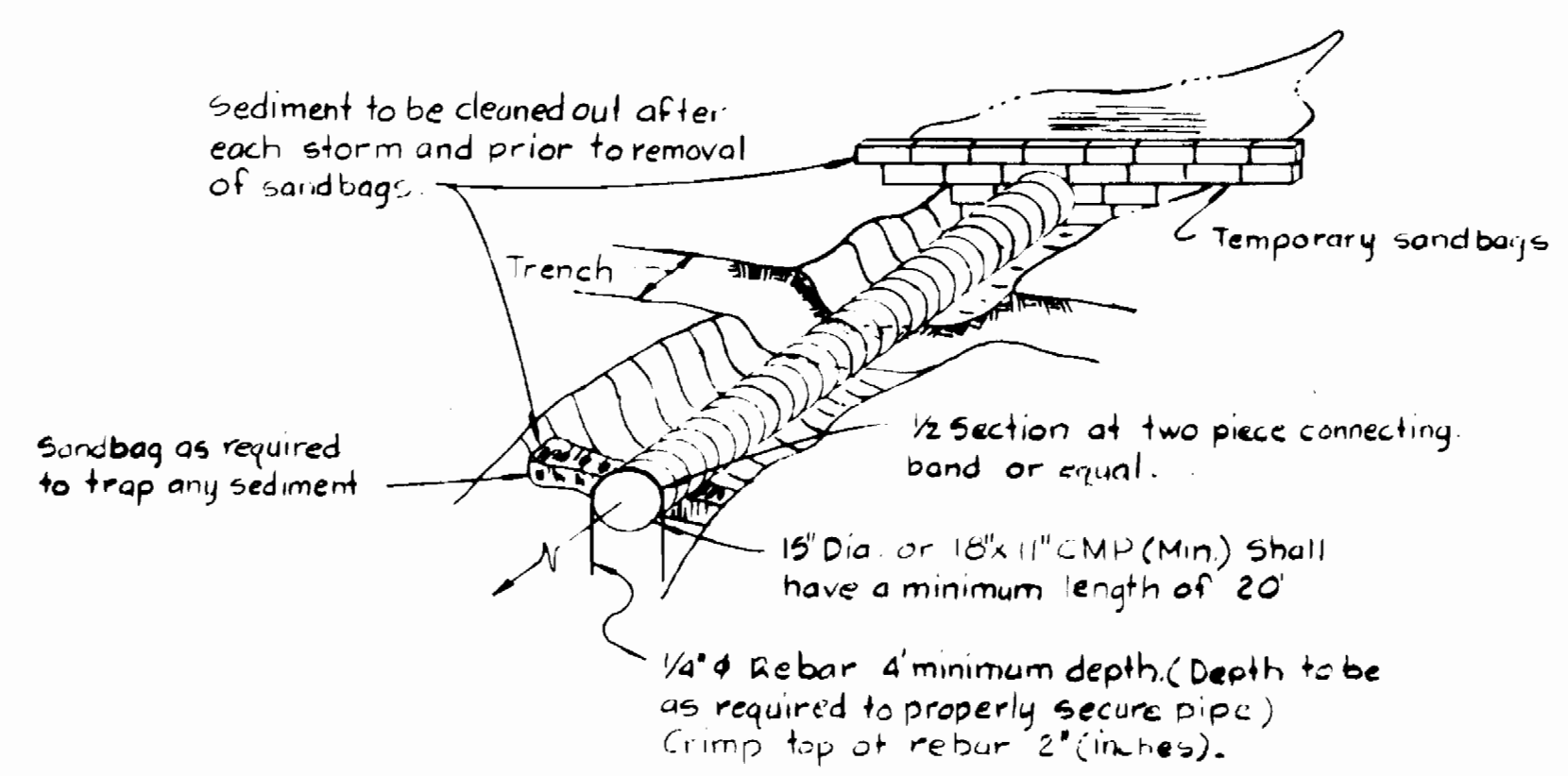
PLAN & PROFILE OF  
 WATER & SEWER MAINS

COLUMBIA  
 VILLAGE OF HICKORY RIDGE  
 SECTION 3 AREA 9  
 ELECTION DISTRICT NO.5  
 CONTRACT NO. 34-1316-D

SCALE  
 AS  
 SHOWN  
 SHEET  
 5 OF 6



- NOTES:**
1. Woven wire fence to be fastened securely to fence posts by use of wire ties.
  2. Filter cloth to be fastened securely to woven wire fence by use of wire ties spaced every 24" at top and mid section.



DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND Director of Public Works - DATE Chief - Bureau of Utilities - DATE		WHITMAN, REQUARDT AND ASSOCIATES ENGINEERS 2315 ST. PAUL ST. BALTIMORE, MARYLAND		DES. S.J. DRN. J.R.K. CHK. R.B.N. DATE:		SEDIMENT CONTROL DETAILS		COLUMBIA VILLAGE OF HICKORY RIDGE SECTION 3 AREA 9 ELECTION DISTRICT NO. 5 CONTRACT NO. 34-1316-D		SCALE AS SHOWN SHEET 6 OF 6	
W.O. 40048		February 26, 1985		BY NO REVISION DATE		600 SCALE MAP NO. BLOCK NO.					