


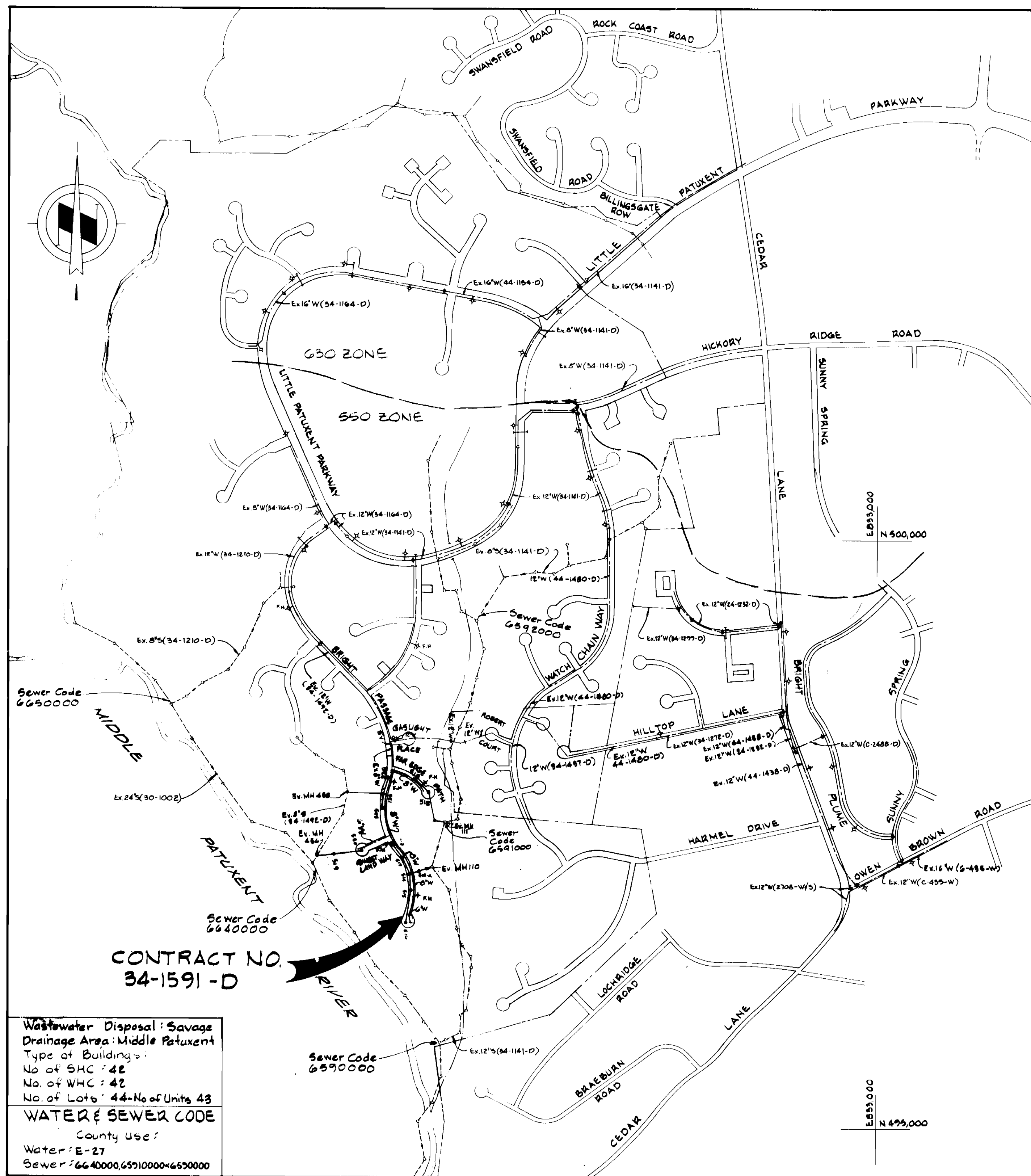
GENERAL NOTES

- 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 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 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/C&P TELEPHONE CO. 1-800-257-7777
 - 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. CLASS 52 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 WATER HOUSE CONNECTIONS SHALL BE FOR INSIDE METER SETTINGS. UNLESS OTHERWISE NOTED ON THE PLANS OR IN THE SPECIFICATIONS.
- ALL W.H.C.'S SHALL BE 3/4" UNLESS OTHERWISE NOTED.
- ALL COPPER WATER HOUSE CONNECTIONS SHALL UTILIZE FLARED FITTINGS.
- ALL SEWER MAINS SHALL BE C.S.P.X., D.I.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 FOR BRICK MANHOLES ONLY.
- MANHOLES DESIGNATED W.T. IN PLAN AND PROFILE SHALL HAVE WATERTIGHT FRAME AND COVERS. STANDARD DETAIL G5-52, WHERE WATERTIGHT MANHOLE FRAME AND COVER IS USED. SET TOP OF FRAME 1.5' ABOVE FINISHED GRADE UNLESS OTHERWISE NOTED ON THE DRAWINGS.
- STRAW BALE DIKE AND SILT FENCE ARE INTERCHANGEABLE.
- FOR MANHOLES IN OPEN SPACE OR OUTFALL, SET TOP OF FRAME 1.5' ABOVE FINISHED GRADE UNLESS OTHERWISE NOTED ON THE DRAWINGS.

QUANTITIES			
ITEM	BID	AS-BUILT	MATERIAL/SUPPLIER
8" Water L.F.	1,850	1,777	CL 52 / SUPER BELL TITE
6" Water L.F.	600	521	CL 52 / SUPER BELL TITE
8" Valve Ea.	2	2 EA	METRO SHAW / US PIPE
6" Valve (Excluding Filter)	1	1 EA	" " " "
Fire Hydrants Ea.	4	4 EA	METRO SHAW / US PIPE
1 1/2" Drain for W.Man Ea.	3	3 EA	" " " "
8" Sewer D.I.P. L.F.	220	220	CL 52 / SUPER BELL TITE
8" Sewer L.F.	2,930	2,345	SDR 35 PVC / J-M
Manholes Ea.	14	14 EA	A.C.T.M. C478 / A.M.I.T.I.
1" W.H.C. L.F.	280	200	TYPE K COPPER
3/4" W.H.C. L.F.	1,000	1,000	TYPE K / HOWELL METALS
6" S.H.C. L.F.	1,150	1,010	SDR 35 PVC / J-M
DHC VP	10	10	" " " "

CONSTRUCTION SEQUENCE
SEDIMENT CONTROL PROCEDURES
(FOR AREAS NOT PROTECTED BY ROAD CONSTRUCTION-
SEDIMENT CONTROL DEVICES)


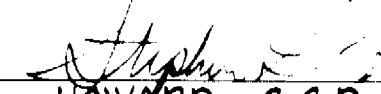
- OBTAIN SEDIMENT CONTROL PERMIT (ARTICLE 15.05-3).
 - CONSTRUCT CONTINUOUS SEDIMENT BARRIER FOR ALL DISTURBED AREAS * NOT PROTECTED BY SEDIMENT TRAPS.
 - CLEAR, GRUB AND STRIP AS REQUIRED. PROTECT STREAM FROM EROSION OF STORED TOP SOIL. SEPARATE TOP SOIL FROM SUBSOIL.
 - CONSTRUCT PIPELINES.
 - ALL EXCAVATED MATERIAL SHALL BE STOCKPILED ON HIGH SIDE OF TRENCH.
 - RESTORE EROSION CONTROL STRUCTURES DISTURBED BY SEWER AND WATER 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 OR 400 FOOT WATERMAIN SECTION SHALL FOLLOW WITHIN ONE WEEK OF PIPELAYING IN THAT AREA.
- * DISTURBED AREAS SHALL BE RESTRICTED TO 20' EASEMENTS.



Wastewater Disposal: Savage
Drainage Area: Middle Patuxent
Type of Building:
No of S.H.C.: 42
No. of W.H.C.: 42
No. of Lots: 44-No. of Units 43
WATER & SEWER CODE
County Use:
Water: E-27
Sewer: 6640000, 6650000, 6630000

CONTRACT NO. 34-1591-D

CONTRACT NO. 34-1591-D
VILLAGE OF HICKORY RIDGE
HOWARD COUNTY, MARYLAND
DEPARTMENT OF PUBLIC WORKS

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENT
SIGNATURE:  DATE: 3/2/87
U.S. SOIL CONSERVATION SERVICE
This Development Plan is approved for Soil Erosion and Sediment Control by the Howard County Conservation District.
APPROVED:  DATE: 2/2/87
HOWARD S.C.D.

Sediment Control Measures for this Contract will be implemented in accordance with Section 219 of the standard Specifications and Road Construction Drawings, F-57-105

Bright Passage
Lots 1 through 44

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
DIRECTOR OF PUBLIC WORKS - DATE: 3-9-87
CHIEF - BUREAU OF UTILITIES - DATE: 3-6-87

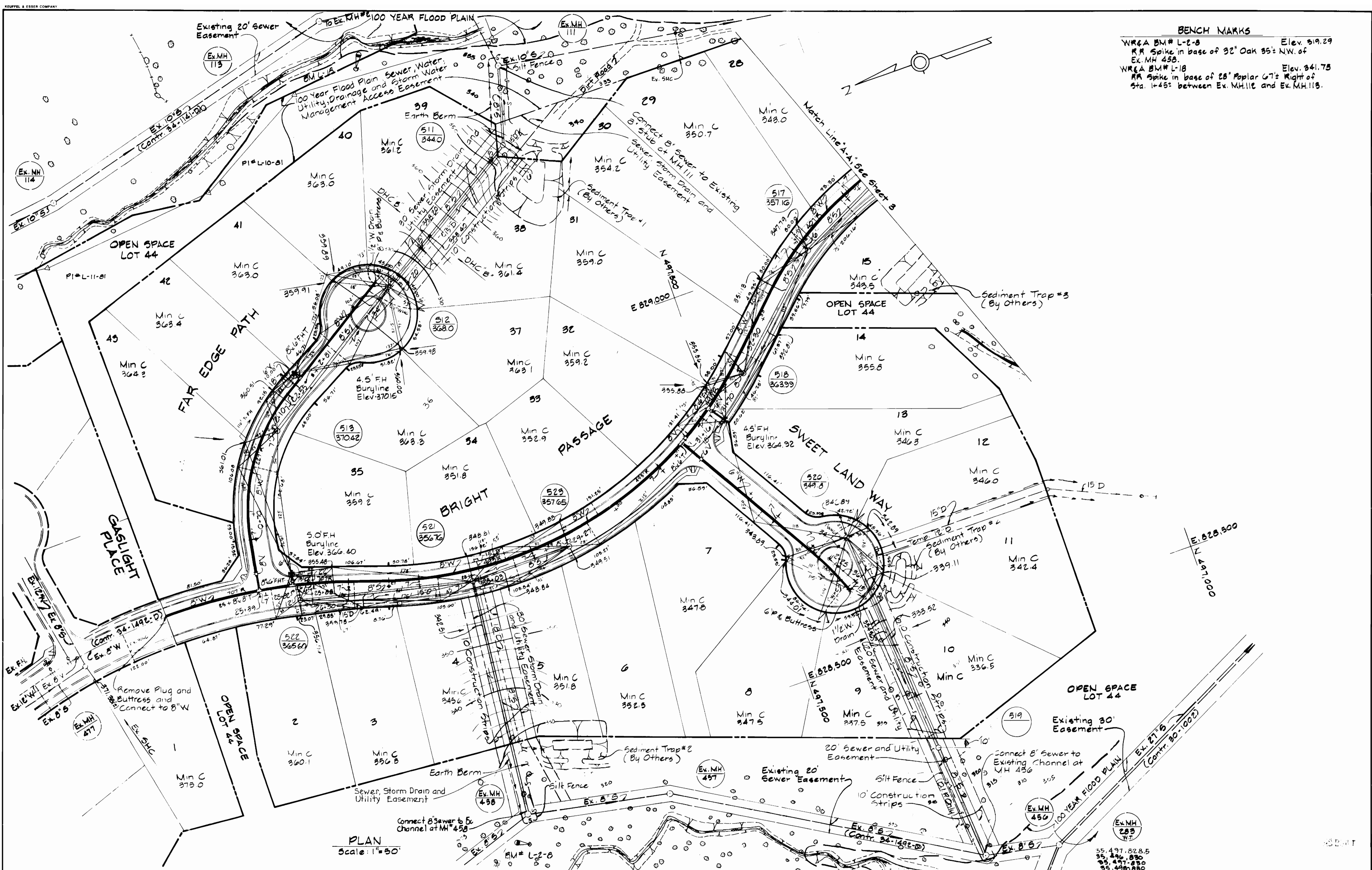
WHITMAN, REQUARDT AND ASSOCIATES ENGINEERS
2315 ST. PAUL ST
BALTIMORE, MARYLAND

DES SJ			
DRN RM			
CHK RBN			
DATE	BY	NO	REVISION

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

COLUMBIA
VILLAGE OF HICKORY RIDGE
SECTION 3 AREA 14
ELECTION DISTRICT NO. 5
CONTRACT NO. 34-1591-D

SCALE 1"=600'
SHEET 1 OF 5

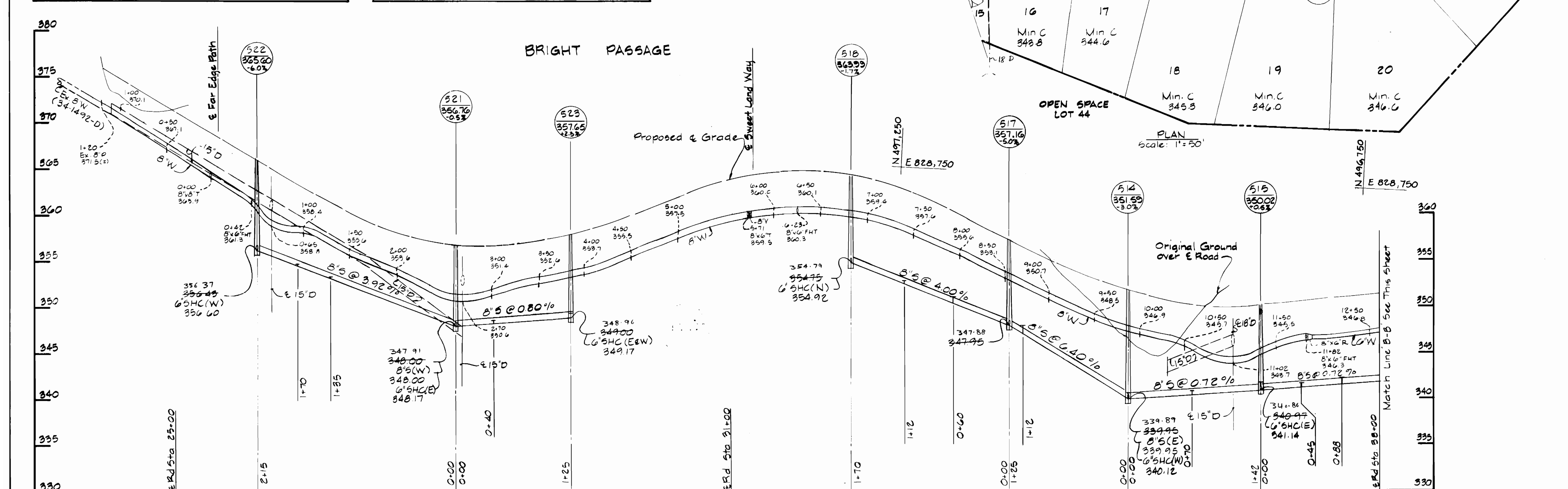
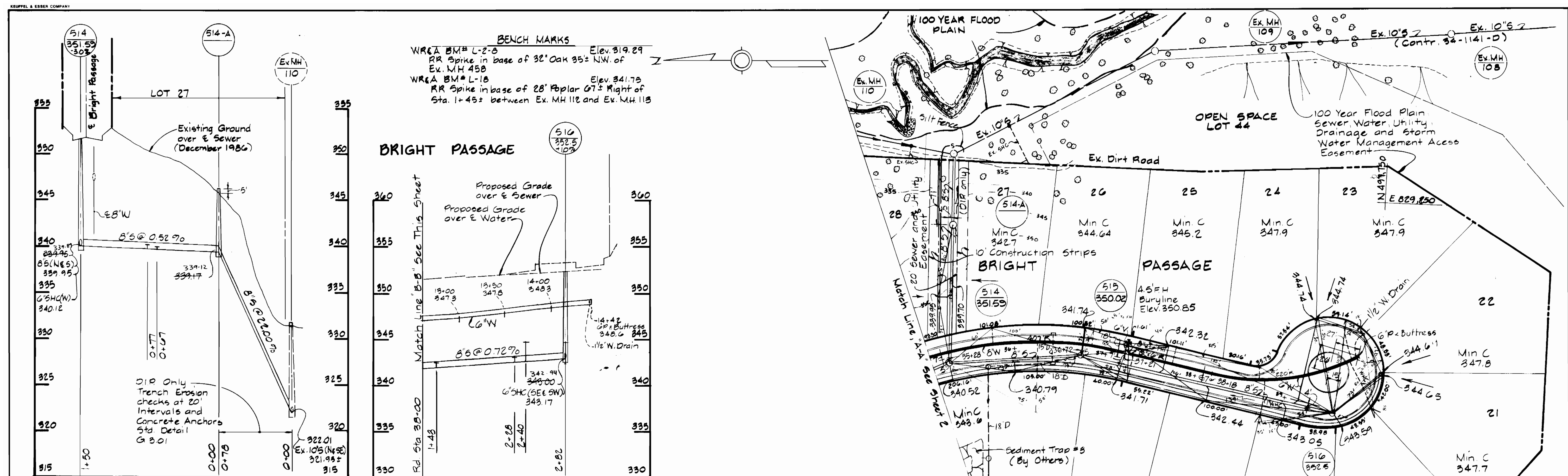


BENCH MARKS
 W.R. & A. BM# L-2-B Elev. 319.29
 R.R. Spike in base of 92' Oak 95'± NW. of Ex. MH 458.
 W.R. & A. BM# L-18 Elev. 341.75
 R.R. Spike in base of 28' Poplar 67'± Right of Sta. 1+45' between Ex. MH.112 and Ex. MH.113.

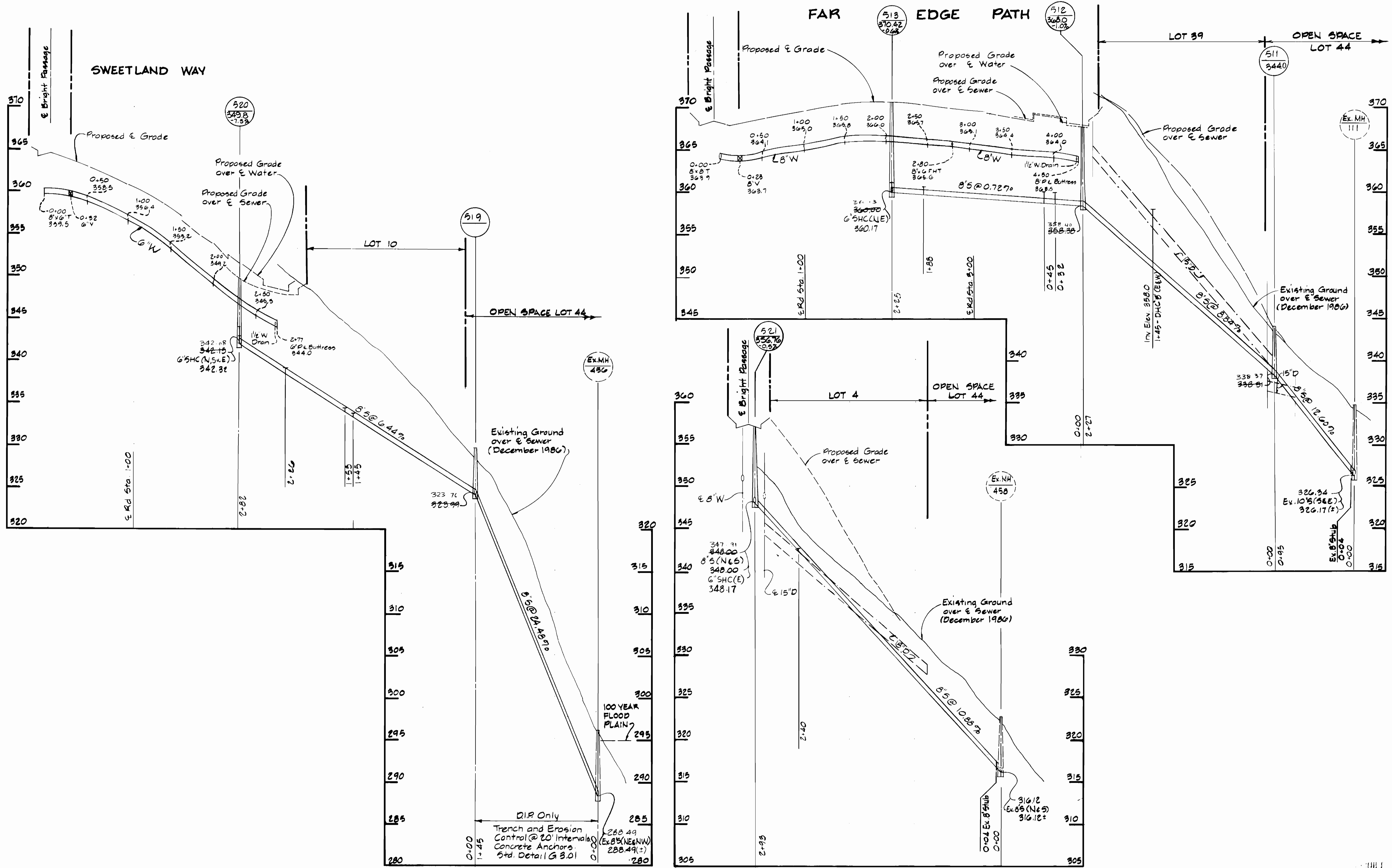
PLAN
 Scale: 1"=50'

35,497.828.5
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 35,497.850
 35,498.850

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	6J			PLAN OF WATER AND SEWER MAINS	COLUMBIA VILLAGE OF HICKORY RIDGE SECTION 3 AREA 14 ELECTION DISTRICT NO. 5 CONTRACT NO. 34-1591-D	SCALE	AS
		DRN	RM					SHOWN	
		CHK	RBN					SHEET	2 OF 5
		DATE		BY	NO	REVISION	DATE	600' SCALE MAP NO	BLOCK NO



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 BETHESDA, MARYLAND		DES: SJ IN: RM CHK: RBN DATE:		PLAN & PROFILE OF WATER & SEWER MAINS 600' SCALE MAP NO. 35 BLOCK NO.		COLUMBIA VILLAGE OF HICKORY RIDGE SECTION 3 AREA 14 ELECTION DISTRICT NO. 5 CONTRACT NO. 34-1591-D		SCALE AS SHOWN SHEET 3 OF 5
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PROFILES Scale: Horizontal 1"=50' Vertical 1"=5'

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND
 Director of Public Works - DATE 3-10-87
 Chief - Bureau of Utilities - DATE 3-6-87

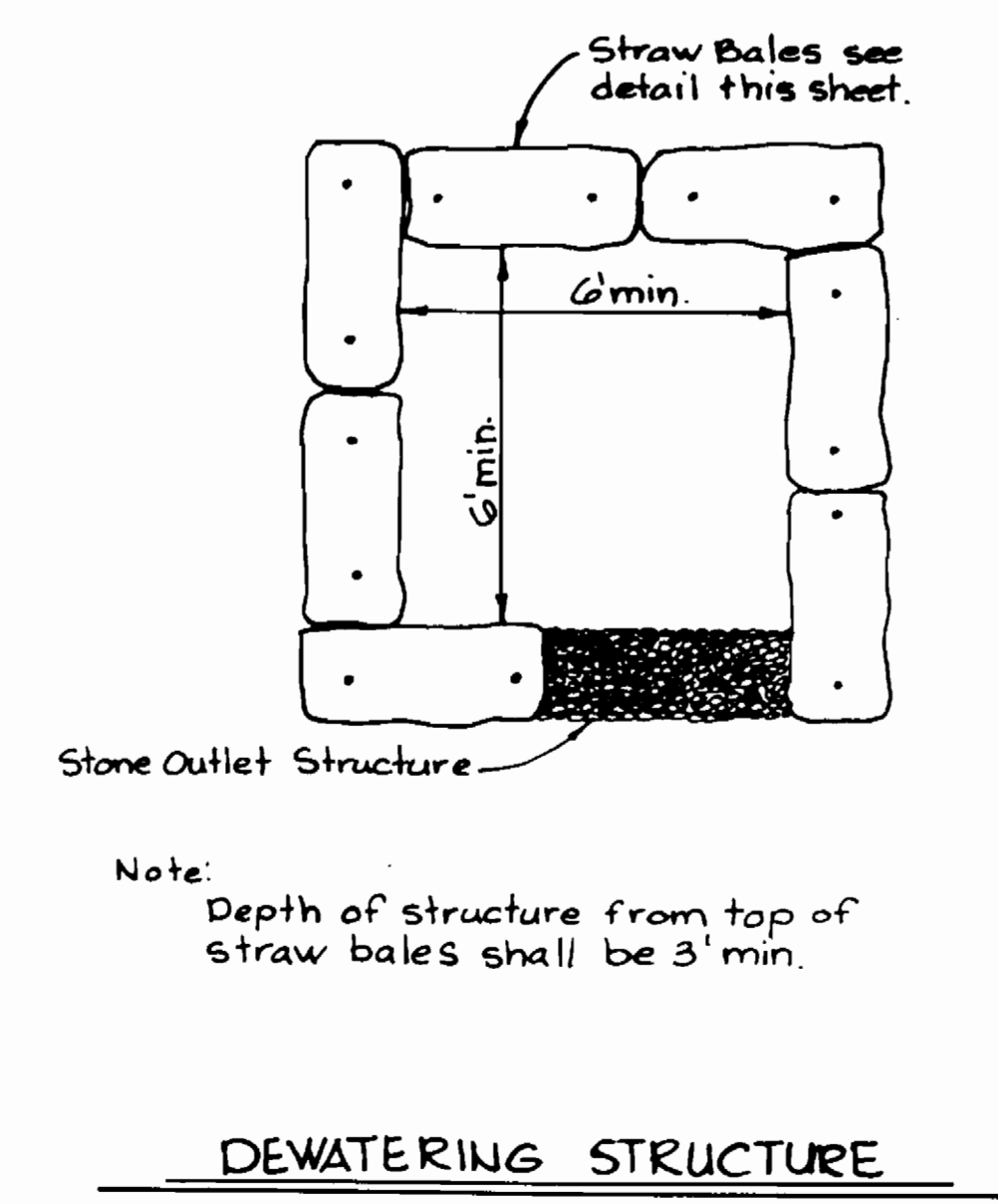
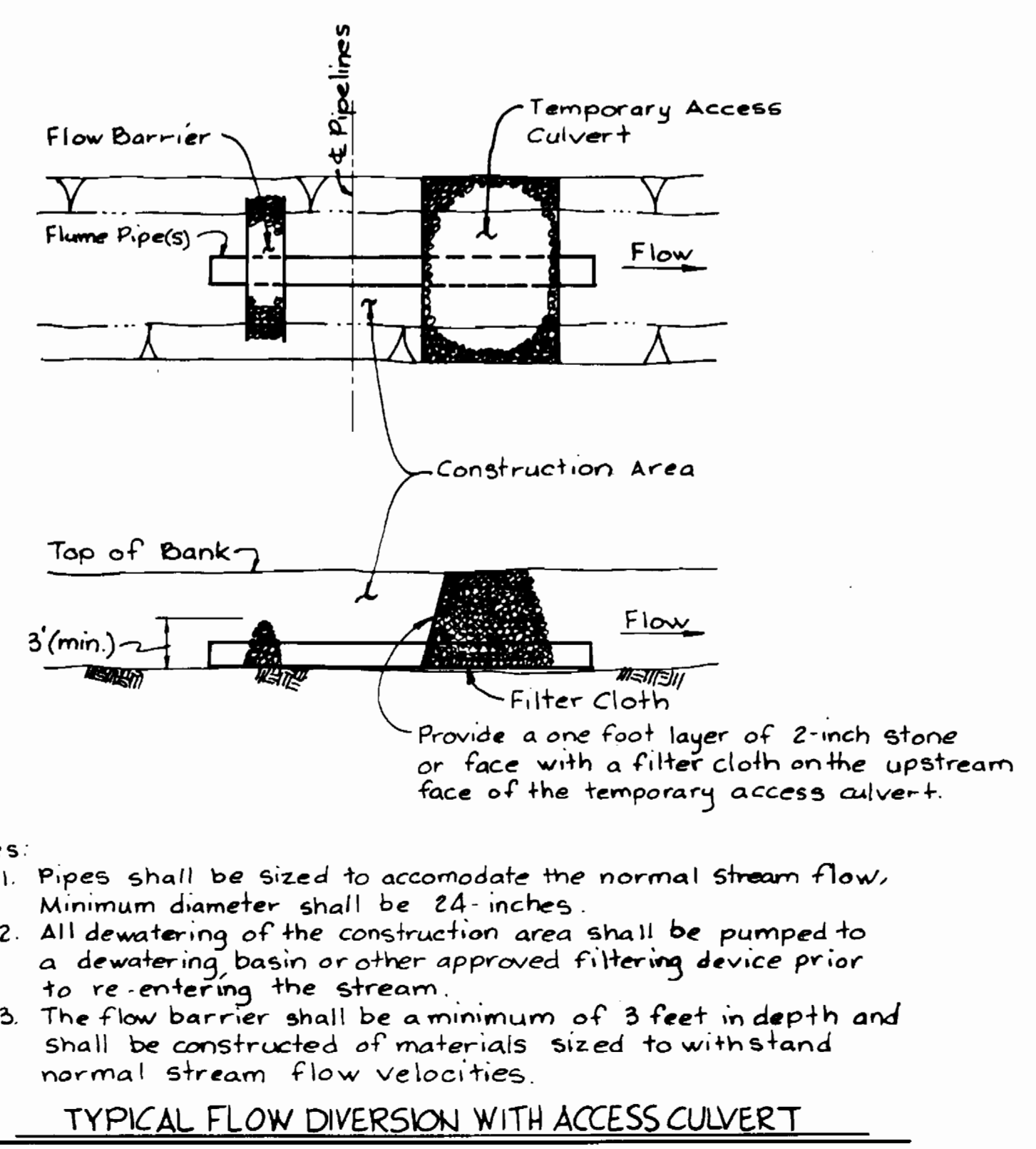
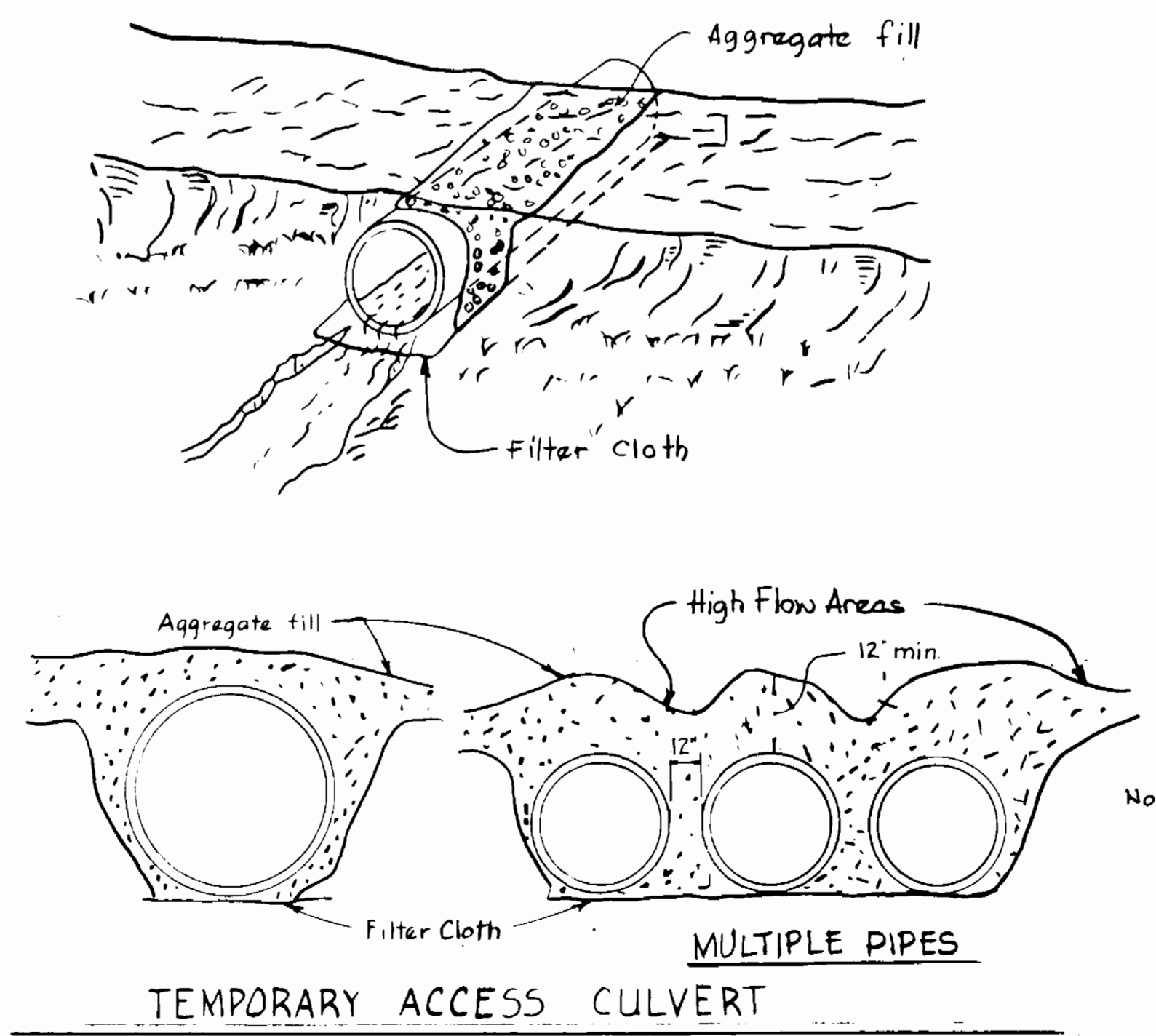
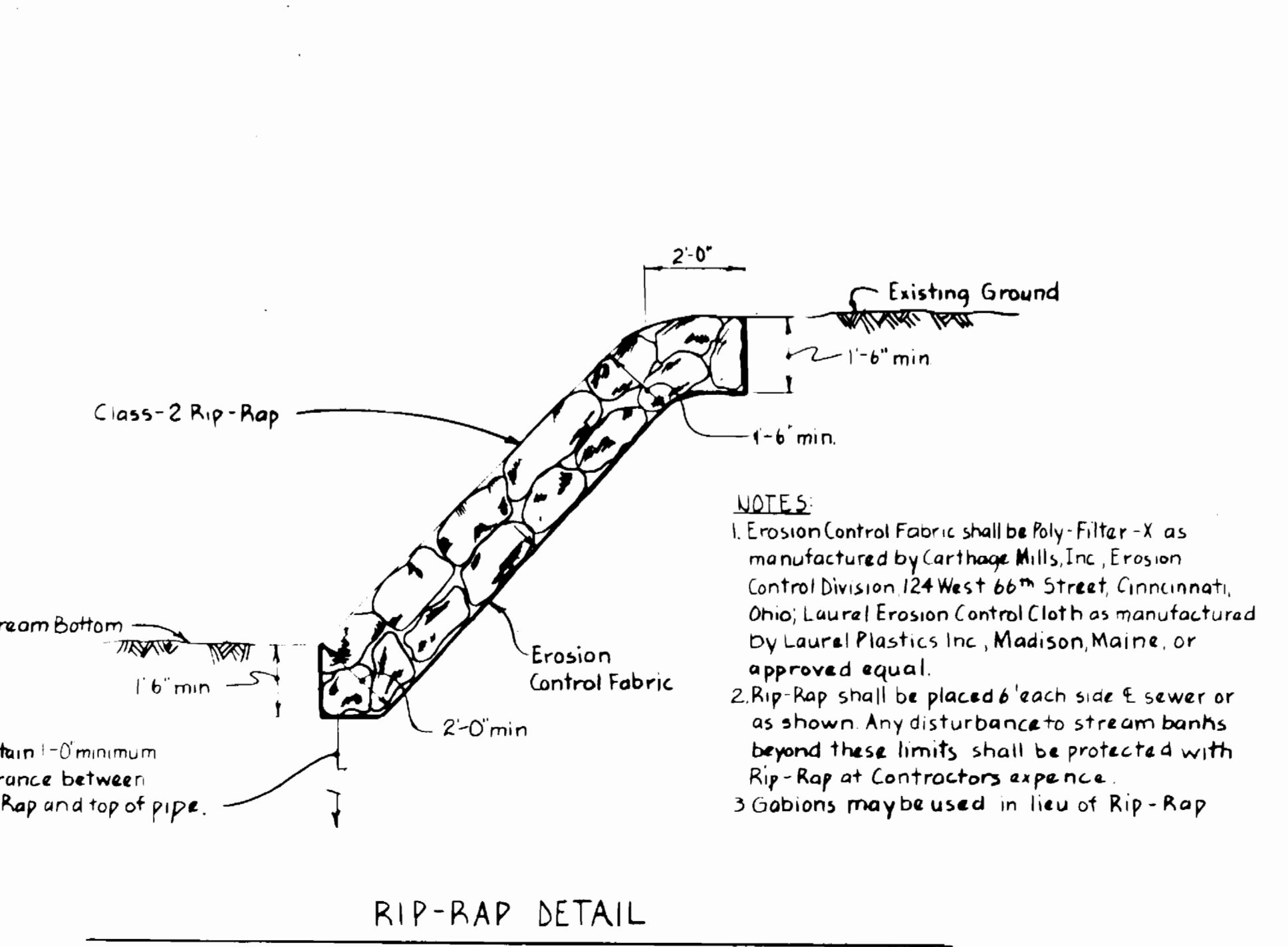
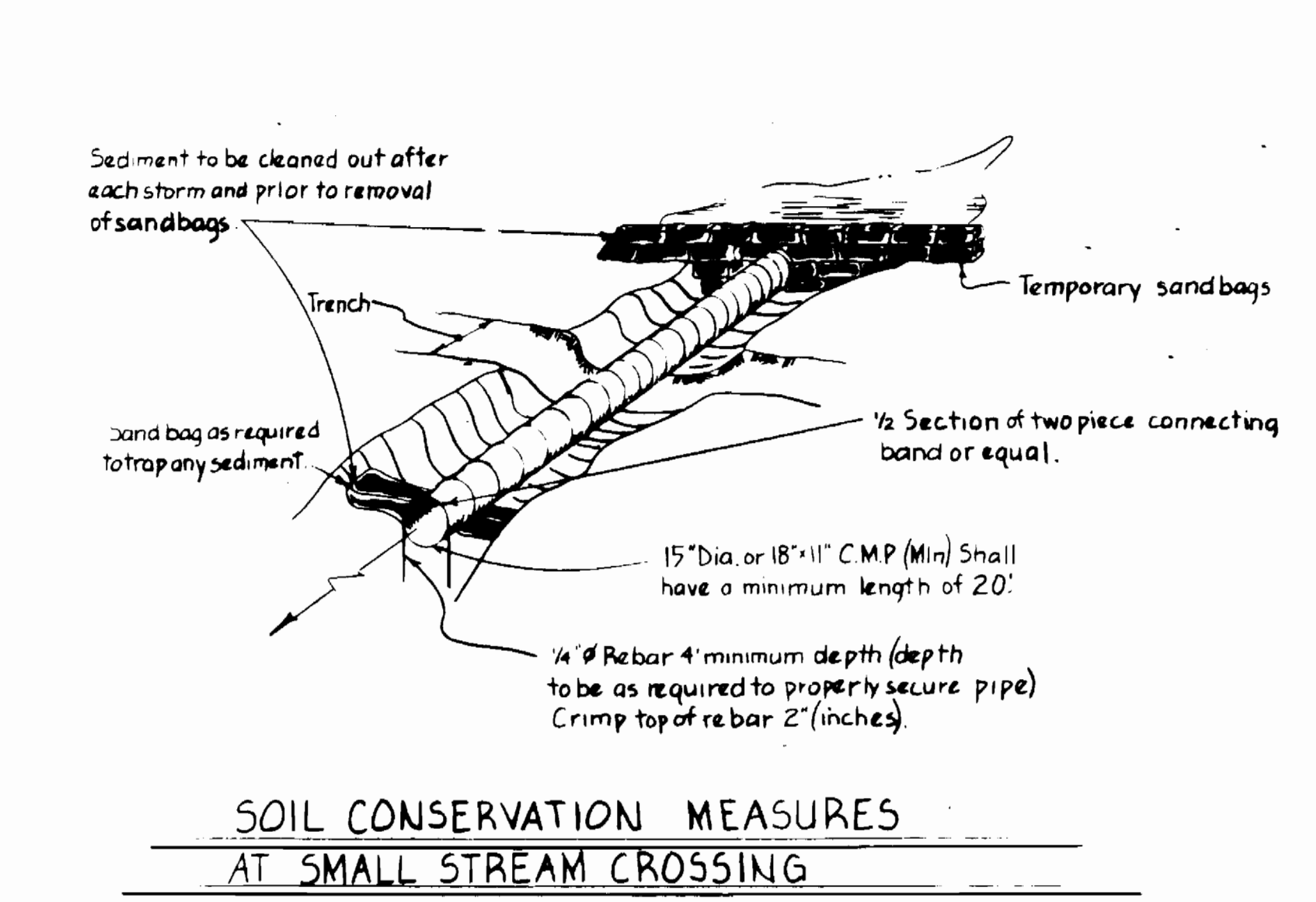
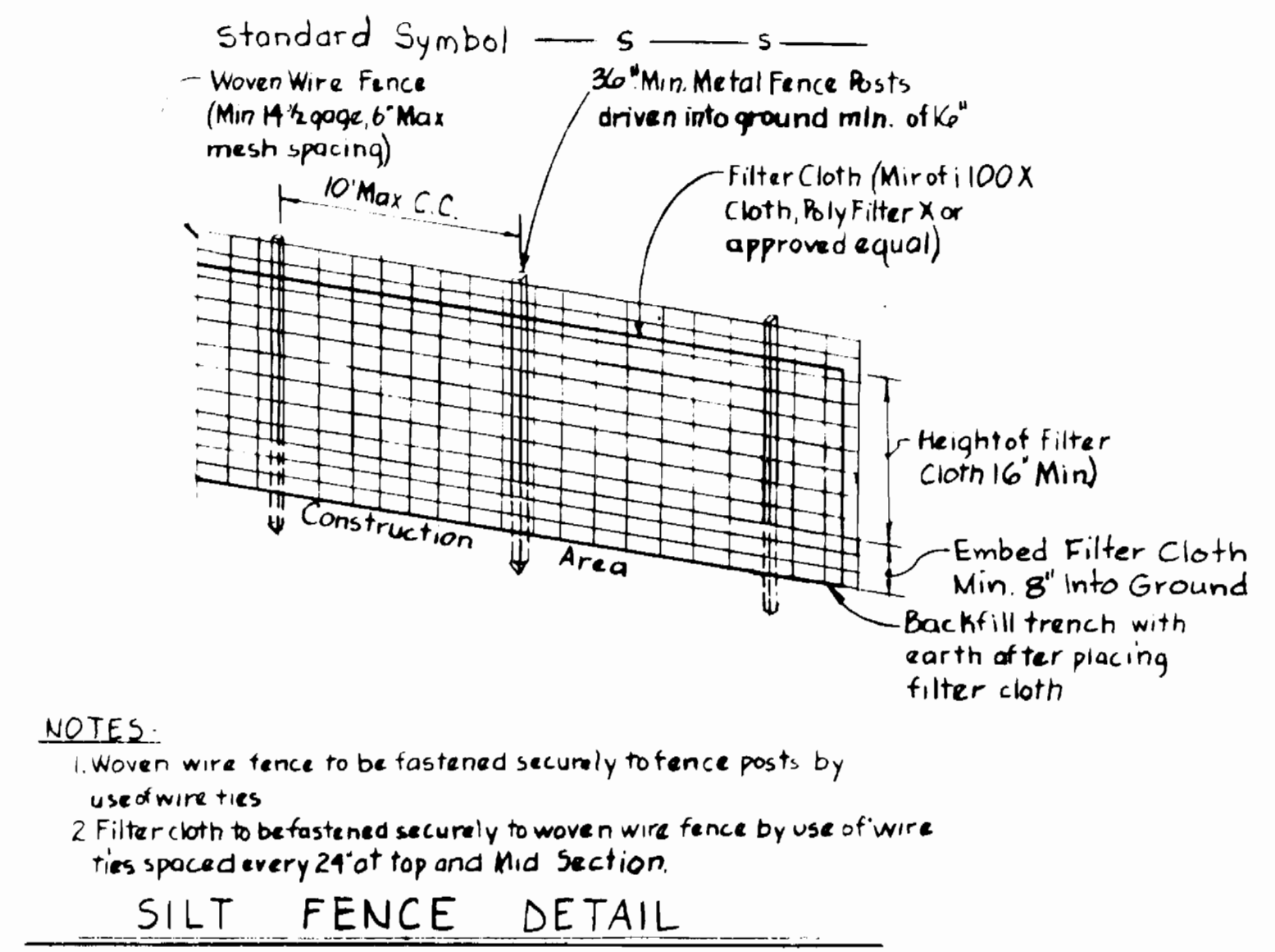
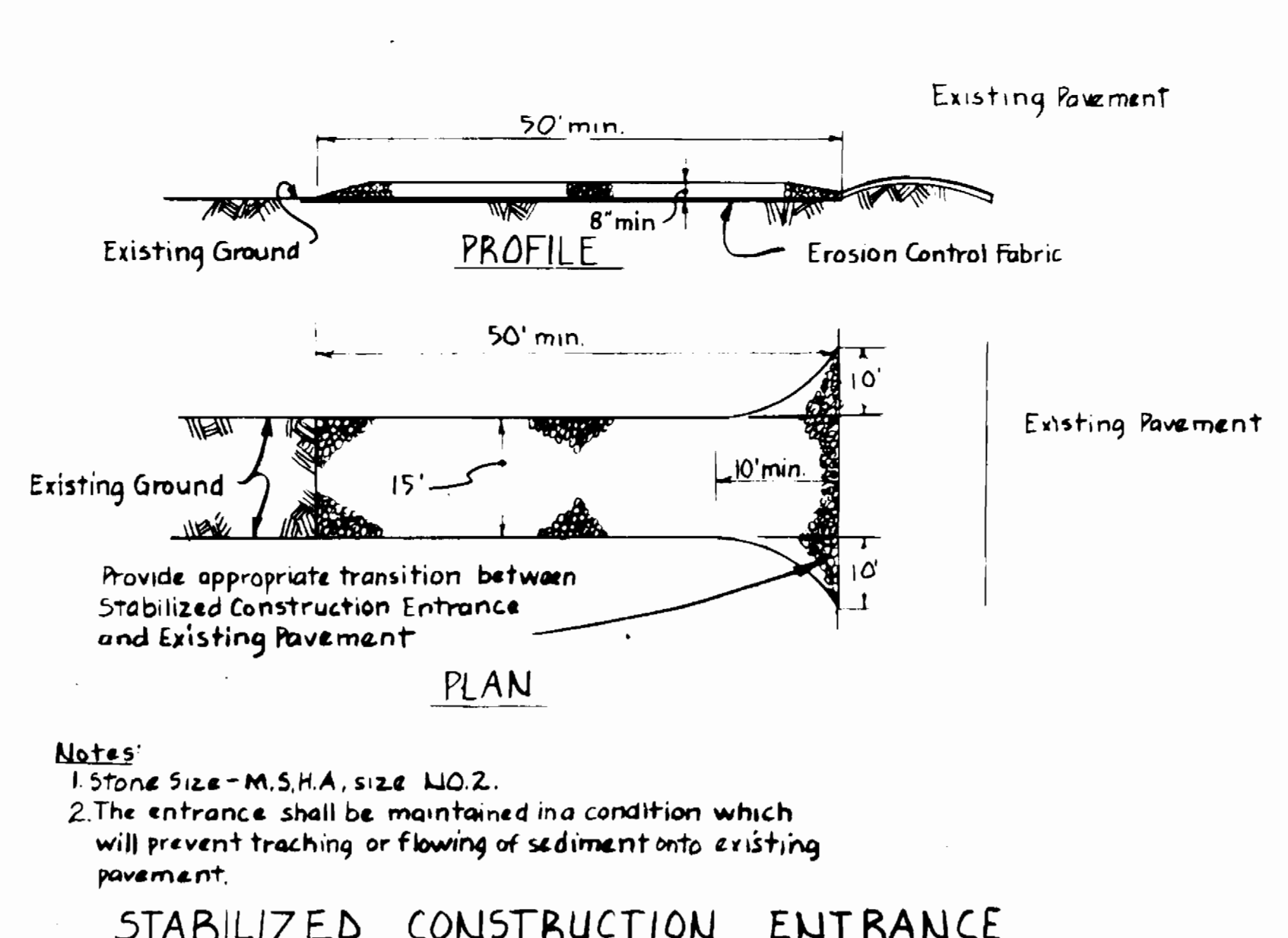
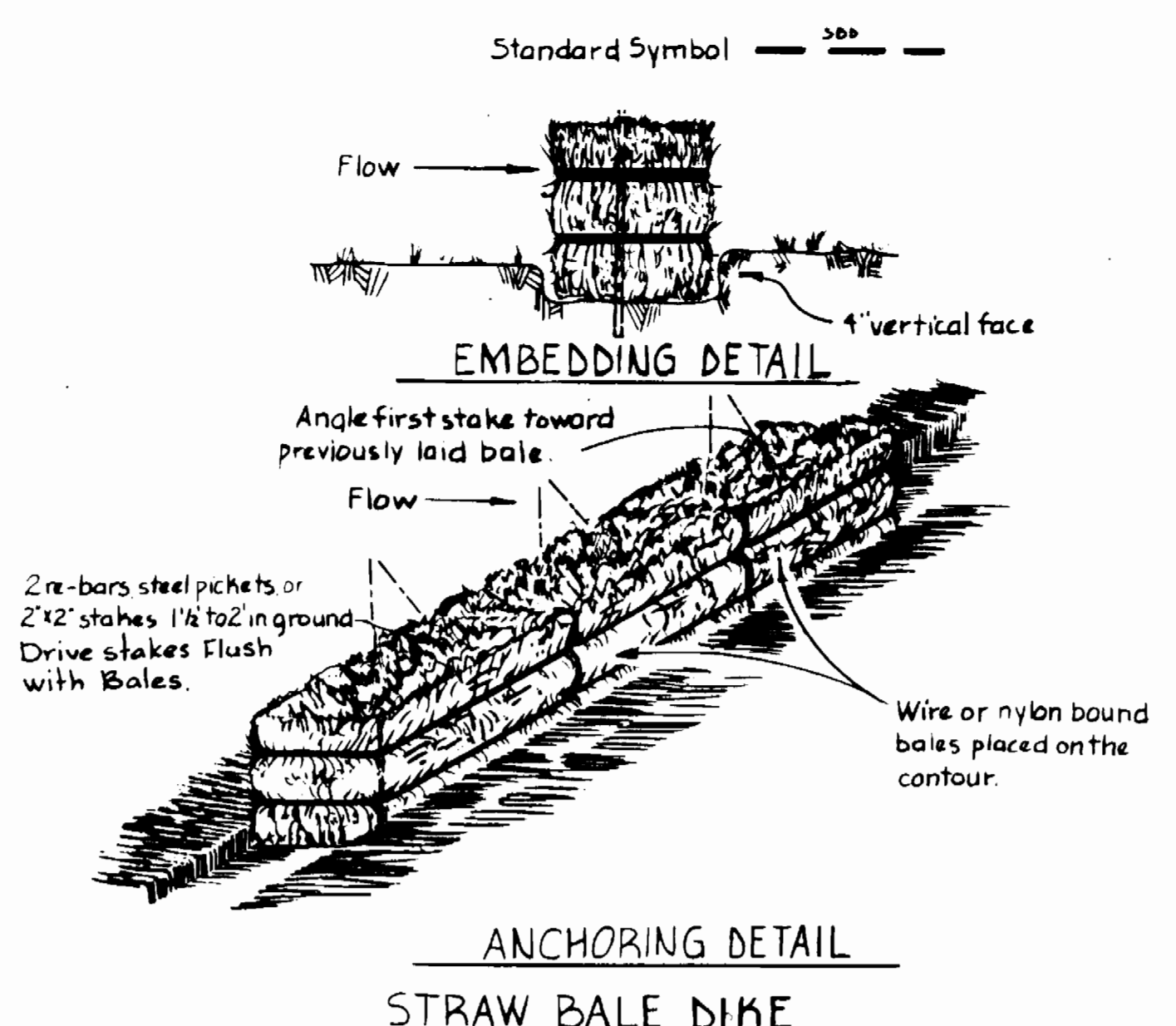
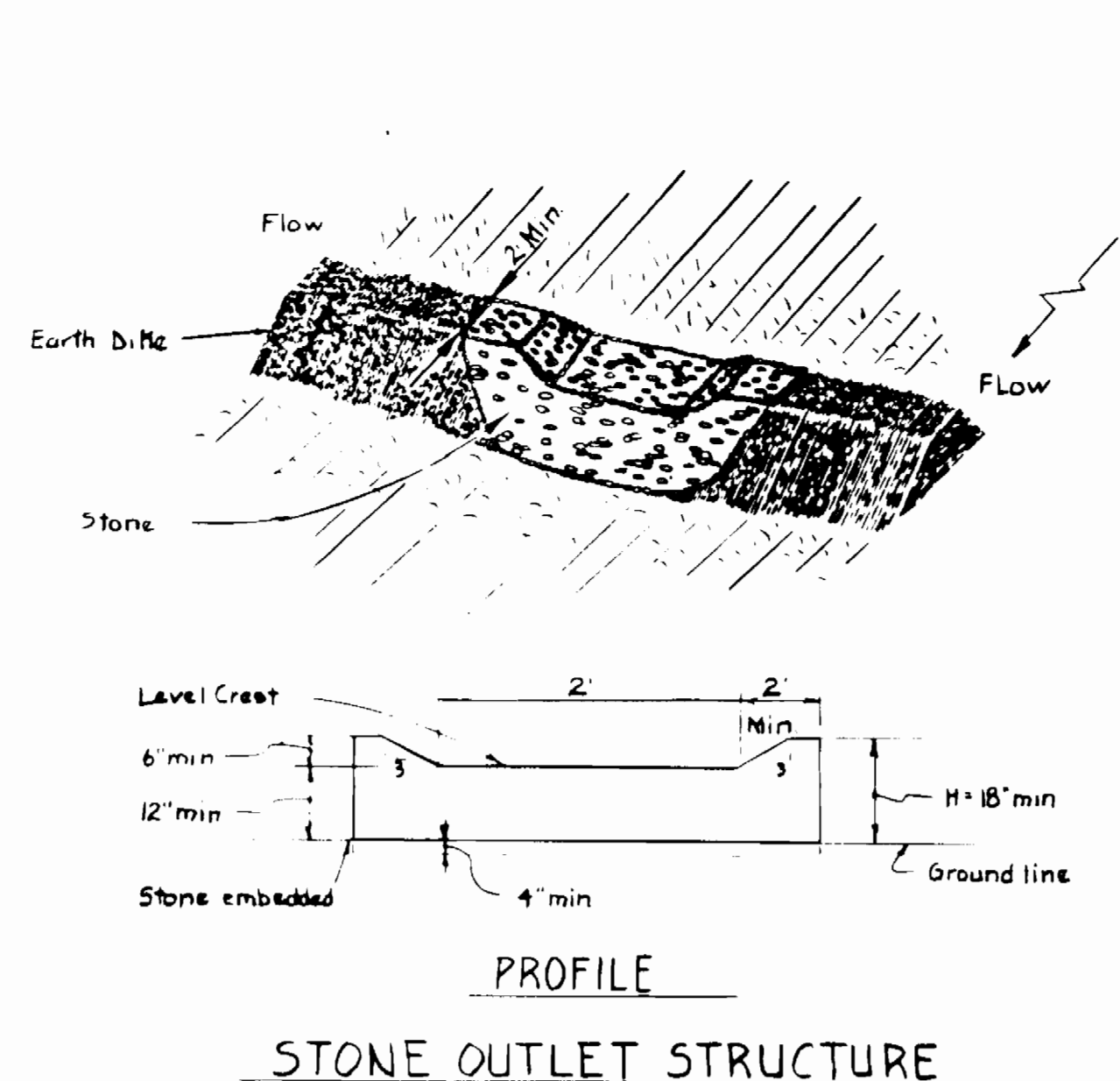
WHITMAN, REQUARDT
 AND ASSOCIATES
 ENGINEERS
 2315 ST PAUL ST
 BALTIMORE, MARYLAND

DES. S J	BY	NO
CHK. RBN	REVISION	DATE
DATE	DATE	DATE

PROFILES OF WATER &
 SEWER MAINS
 600' SCALE MAP NO. 35 BLOCK NO.

COLUMBIA
 VILLAGE OF HICKORY RIDGE
 SECTION 3 AREA 14
 ELECTION DISTRICT NO. 5
 CONTRACT NO. 34-1591-D

SCALE AS SHOWN
 SHEET 4 OF 5



Approved: *[Signature]* 3/2/87
 Howard R. G. D.

Approved: *[Signature]* 3/2/87
 Howard R. G. D.

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND

DIRECTOR OF PUBLIC WORKS - DATE
Robert M. Reimer 3-6-87

CHIEF - BUREAU OF UTILITIES - DATE

WHITMAN, REQUARDT
 AND ASSOCIATES
 ENGINEERS

2315 ST PAUL ST
 BALTIMORE, MARYLAND



DES: GJ					
DRN: GTF					
CHK: RBN					
DATE:	BY:	NO.	REVISION	DATE	

SEDIMENT CONTROL
 DETAILS

600' SCALE MAP NO. _____ BLOCK NO. _____

COLUMBIA
 VILLAGE OF HICKORY RIDGE
 SECTION 3 AREA 14
 ELECTION DISTRICT NO 5
 CONTRACT NO. 34-1591-D

SCALE
 AS
 SHOWN

SHEET
 5 OF 5