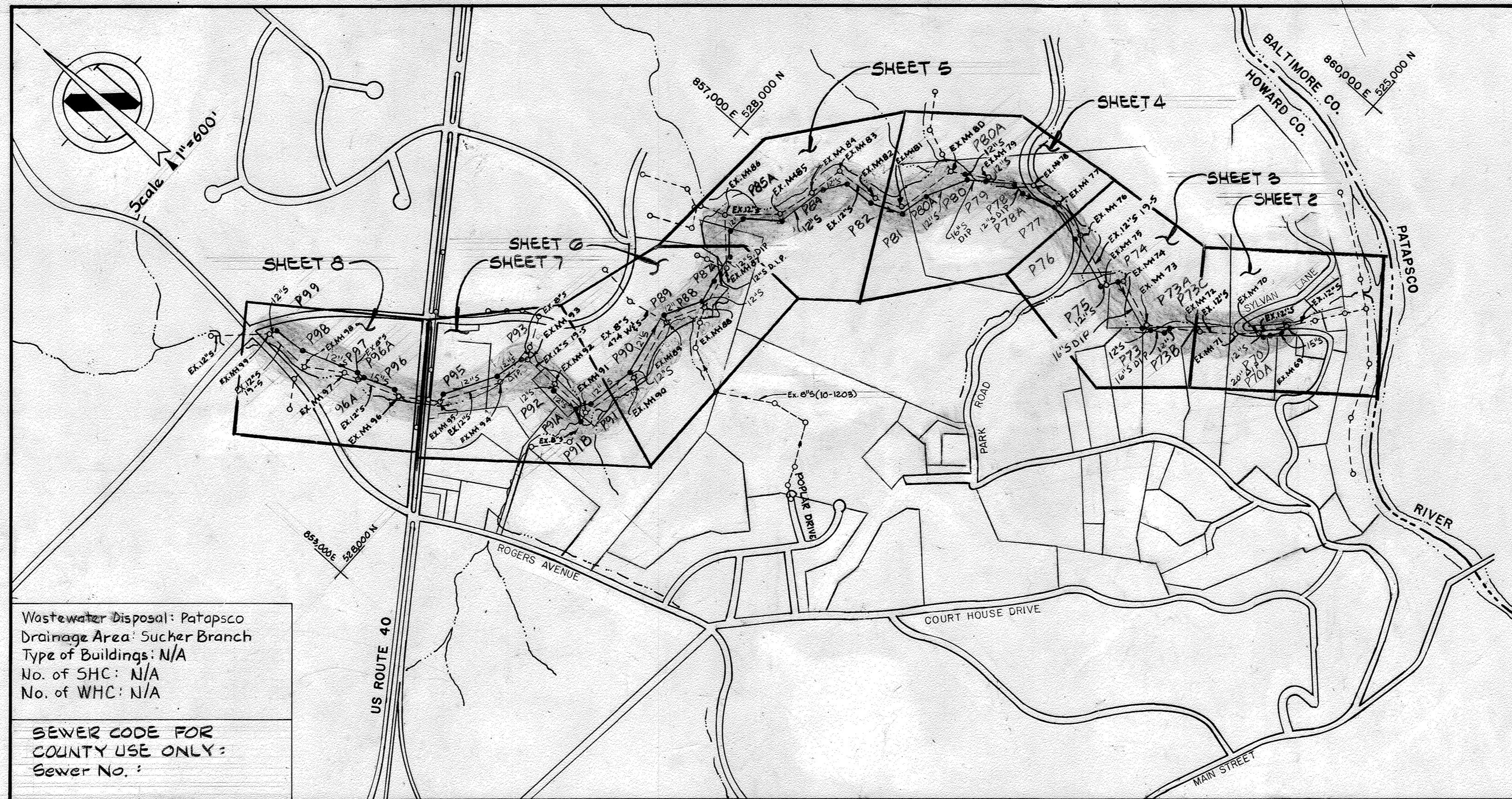


TRAVERSE SCHEDULE

Table with columns: P.I. #, NORTH, EAST, BEARING, DISTANCE. Contains 49 rows of traverse data.



Wastewater Disposal: Patapsco Drainage Area: Sucker Branch
Type of Buildings: N/A
No. of SHC: N/A
No. of WHC: N/A
SEWER CODE FOR COUNTY USE ONLY:
Sewer No.:

VICINITY MAP

CONTRACT NO. 10-1305
PROJECT NO. S-6102
SUCKER BRANCH
PARALLEL INTERCEPTOR
HOWARD COUNTY, MARYLAND
DEPARTMENT OF PUBLIC WORKS

GENERAL NOTES

- 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.G.S. DATUM.
- 4. ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS.
- 5. EXISTING SEWER MAIN - CONTRACT 19 5 - IS REINFORCED CONCRETE PIPE.
- 6. PIPE CAPACITY CALCULATIONS ARE BASED ON DESIGN MANUAL COEFFICIENTS.
- 7. 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.
- 8. 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 TO HIS OWN SATISFACTION. ANY DAMAGE TO EXISTING FACILITIES SHALL BE REPAIRED IMMEDIATELY TO THE SATISFACTION OF THE ENGINEER AT THE CONTRACTOR'S EXPENSE.
- 9. 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. - UNDERGROUND 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.
- 10. 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.
- 11. 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.
- 12. 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.
- 13. ALL SEWER MAINS SHALL BE A.C.P., R.C.P., D.I.P., OR P.V.C. UNLESS OTHERWISE NOTED.
- 14. THE CONTRACTOR SHALL PROVIDE A JOINT IN ALL SEWER MAINS WITHIN 2'-0" OF EXTERIOR MANHOLE WALL.
- 15. ALL MANHOLES SHALL BE 4'-0" INSIDE DIAMETER UNLESS OTHERWISE NOTED.
- 16. MANHOLES SHOWN WITH 12" AND 16" WALLS ARE FOR BRICK MANHOLES ONLY.
- 17. MANHOLES DESIGNATED W.T. IN PLAN AND PROFILE SHALL HAVE WATERTIGHT FRAME AND COVERS, STANDARD DETAIL G5.52.
- 18. ALL MANHOLE FRAME AND COVERS SHALL BE SET 1.5' ABOVE EXISTING GRADE WHERE SHOWN IN PROFILE. SEE DETAIL G5.41.
- 19. THE CONTRACTOR SHALL NOT OPERATE ANY WATER MAIN VALVES.
- 20. STRAW BALE DIKE AND SILT FENCE ARE INTERCHANGEABLE.
- 21. P.I.'S ARE "X"-CUTS IN RIMS OF EXISTING MANHOLES EXCEPT WHERE REFERENCES ARE SHOWN ON THE DRAWINGS.
- 22. 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 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.
- 23. FOR CONCRETE ENCASEMENT SEE STANDARD DETAIL G 2.09.
- 24. REPAIR OPENINGS IN EXISTING PAVING AS PER STANDARD DETAIL G 4.01.
- 25. D.I.P. SHALL BE CLASS 50.
- 26. DESIGN Q'S SHOWN ARE ULTIMATE FLOWS.
- 27. PROVIDE WATER TIGHT MANHOLE INSERTS, "SEWER GUARD" AS MANUFACTURED BY PRECO INDUSTRIES LTD. OR EQUAL FOR ALL NEW MANHOLES DESIGNATED W.T.M.I. IN PLAN AND PROFILE AND FOR ALL EXISTING MANHOLES WHERE DESIGNATED W.T.M.I.
- 28. (a) 100 YEAR FLOOD PLAIN IN VICINITY OF EXISTING MH 525 IS BASED ON ELEVATIONS SHOWN IN PATAPSCO RIVER BASIN STUDY PREPARED BY REGIONAL PLANNING COUNCIL, U.S.D.A. SOIL CONSERVATION SERVICE, MARCH 1980.
(b) 100 YEAR FLOOD PLAIN IN VICINITY OF EXISTING MH 58 IS BASED ON ELEVATIONS SHOWN ON RECORD PLAT FOR THE RESECTION DIVISION OF PARCEL "A" AND PARCEL "B" SECTION 1 OF NORMANDY WOODS, HOWARD COUNTY, MARYLAND, ELECTION DISTRICT NO. 2 DATED APRIL 16, 1975.
(c) 100 YEAR FLOOD PLAIN IN OTHER AREAS IS BASED ON DESIGN MANUAL VOLUME I - STORM DRAINAGE - CHAPTER 10 - STORMWATER MANAGEMENT - ENVELOPE STUDY.

SEDIMENT CONTROL MEASURES FOR THIS CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH ARTICLE 15 OF THE STANDARD SPECIFICATIONS

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENT
James M. McElroy 9-16-85
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 L. Fisher* 9/16/85
HOWARD S.C.D. DATE

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
John F. Norman 9-1-85
DIRECTOR OF PUBLIC WORKS - DATE
Robert W. Wood 9/1/85
CHIEF - BUREAU OF UTILITIES - DATE
Paul R. ... 9/2/85
CHIEF - UTILITY DESIGN DIVISION - DATE

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

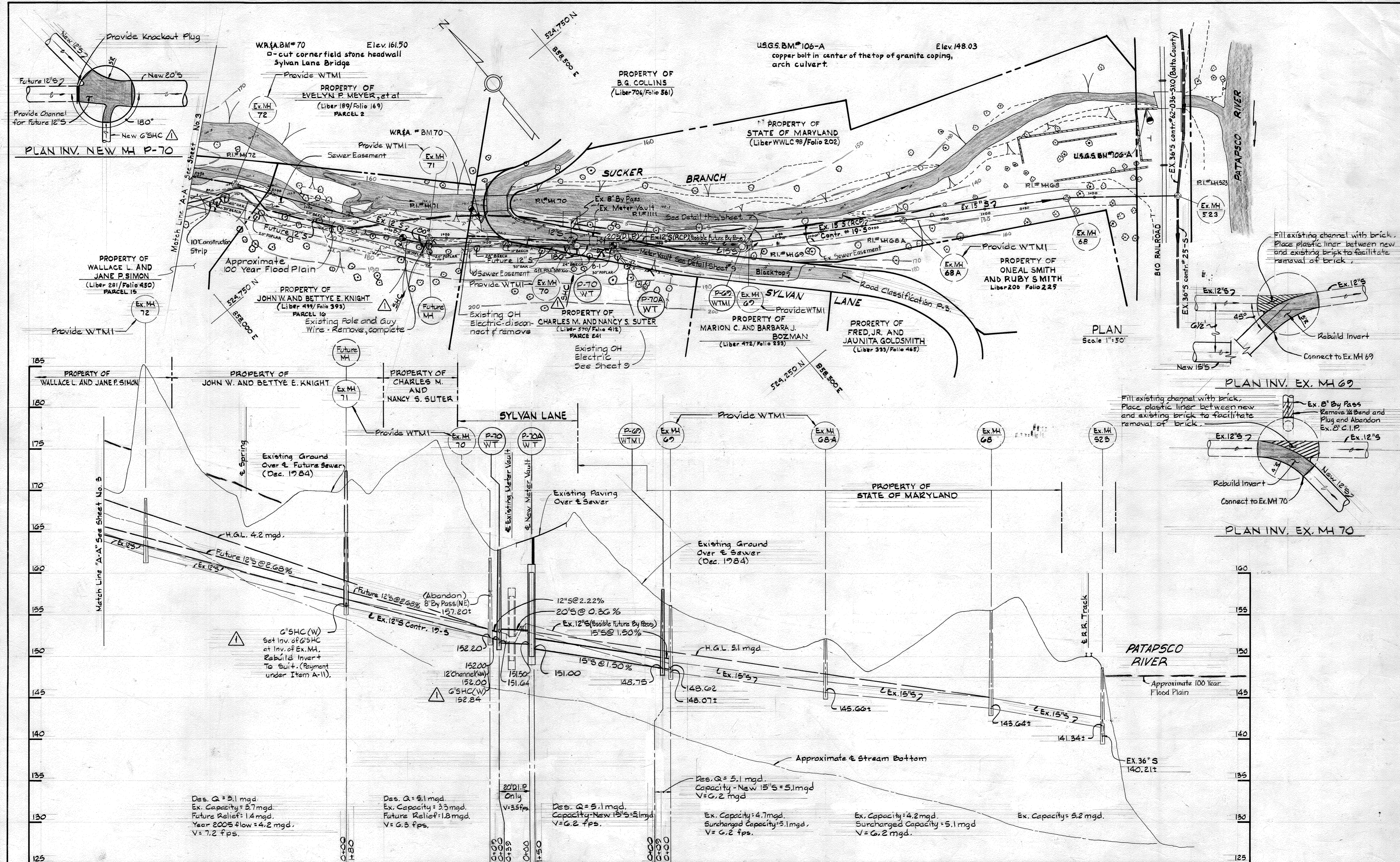
Table with columns: DES, DRN, CHK, DATE, BY, NO, REVISION, DATE. Includes professional seals for J.R.K., G.T.F., and R.B.N.

VICINITY MAP AND GENERAL NOTES
600' SCALE MAP NO. _____ BLOCK NO. _____

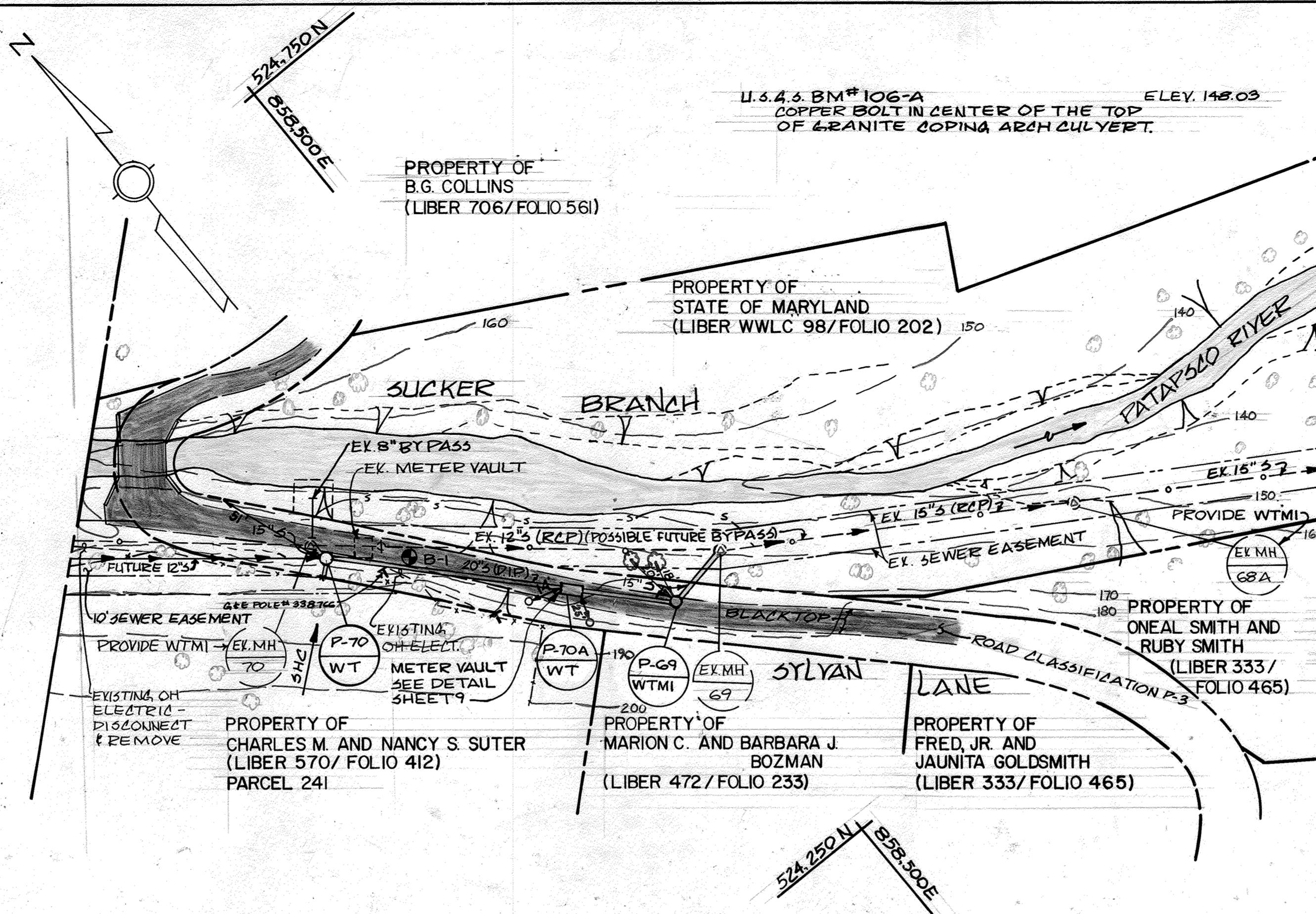
ELLICOTT CITY
SUCKER BRANCH PARALLEL INTERCEPTOR
PROJECT NO. S-6102
CONTRACT NO. 10-1305

SCALE AS SHOWN
SHEET 1 OF 10

QUANTITIES table with columns: ITEM, BID, AS-BUILT, MATERIAL/SUPPLY. Rows include 20'S(D.I.P.) L.F., 10'S(D.I.P.) L.F., 15'Sewer L.F., 12'Sewer L.F., 12'S(D.I.P.) L.F., 8'Sewer L.F., Manholes Ea., Meter Ea.

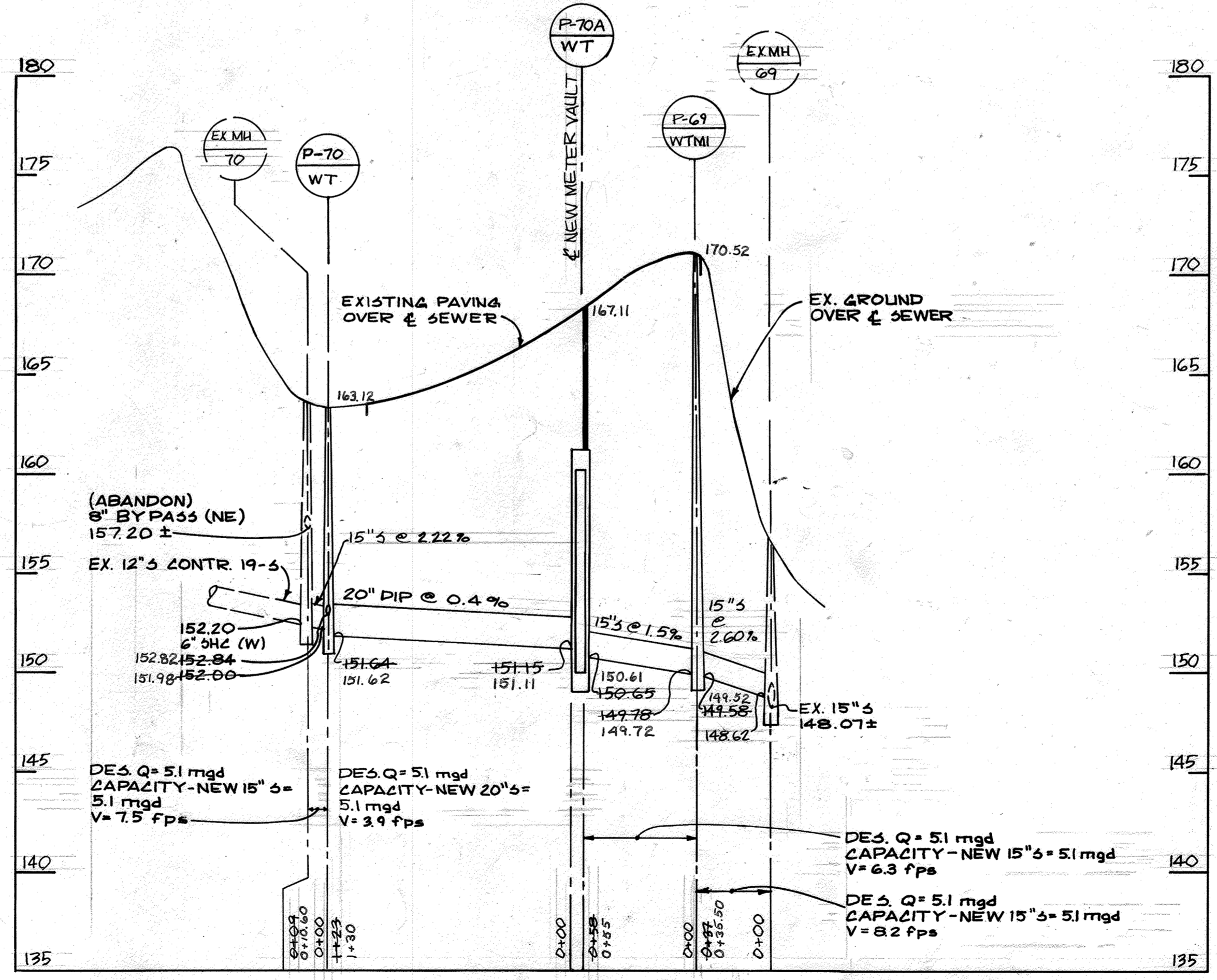


<p>DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND</p> <p><i>Wayne F. Neman</i> 9-3-85 DIRECTOR OF PUBLIC WORKS - DATE</p> <p><i>Robert W. ...</i> 8/13/85 CHIEF - BUREAU OF UTILITIES - DATE</p>	<p>WHITMAN, REQUARDT AND ASSOCIATES ENGINEERS 2315 ST. PAUL ST. BALTIMORE, MARYLAND</p> <p><i>...</i> REGISTERED ENGINEER & LAND SURVEYOR</p>	<p>DES: JRK</p> <p>DRN: G.T.F.</p> <p>CHK: RBN</p> <p>DATE: _____</p> <p>BY: _____</p> <p>NO. _____</p> <p>REVISION _____</p> <p>DATE _____</p>	<p style="text-align: center;">PLAN AND PROFILE OF SEWER MAIN</p> <p>600' SCALE MAP NO. 25 BLOCK NO. 8</p>	<p style="text-align: center;">ELLICOTT CITY SUCKER BRANCH PARALLEL INTERCEPTOR</p> <p style="text-align: center;">PROJECT NO. S-6102 CONTRACT NO. 10-1305</p>	<p>SCALE AS SHOWN</p> <p>SHEET 2 OF 10</p>
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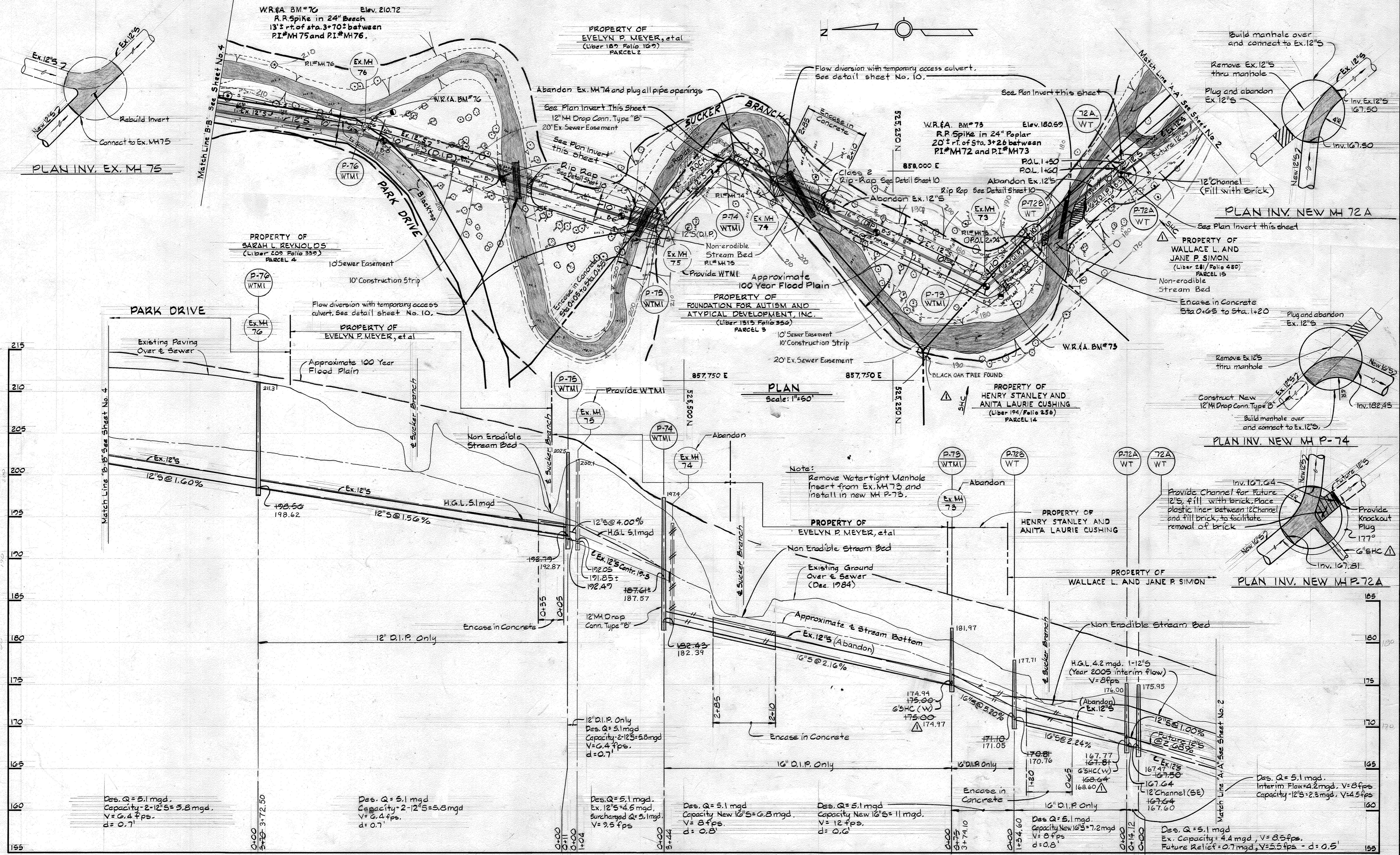
PLAN
SCALE 1" = 50'

NOTE:
THIS SHEET IS PREPARED PER AN ADDENDUM TO CONTRACT NO. 10-1305. ALL INFORMATION SHOWN AS EXISTING IS DUPLICATED FROM SHEET 2 OF CONTRACT NO. 10-1305, PREPARED BY WHITMAN, REQUARDT AND ASSOCIATES.



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

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND July F. Neuman 1-19-87 DIRECTOR OF PUBLIC WORKS DATE Robert M. Bainger 1-19-87 CHIEF, BUREAU OF UTILITIES DATE		JOHN E. HARMS, JR & ASSOCIATES, INC. CONSULTING ENGINEERS P.O. BOX 5 PASADENA, MARYLAND				DES: S.E.S. DRN: K.S.V. CHK: S.E.S. DATE: 1/7/87		PLAN AND PROFILE OF SEWER MAIN		ELLICOTT CITY SUCKER BRANCH PARALLEL INTERCEPTOR PROJECT NO. S-6102 CONTRACT NO. 10-1305		SCALE AS SHOWN SHEET 2A of 10	
1-19-87 CHIEF, BUREAU OF ENGINEERING DATE 1/19/87 CHIEF, UTILITY DESIGN DIVISION DATE								600' SCALE MAP NO. 25 BLOCK NO. 8					



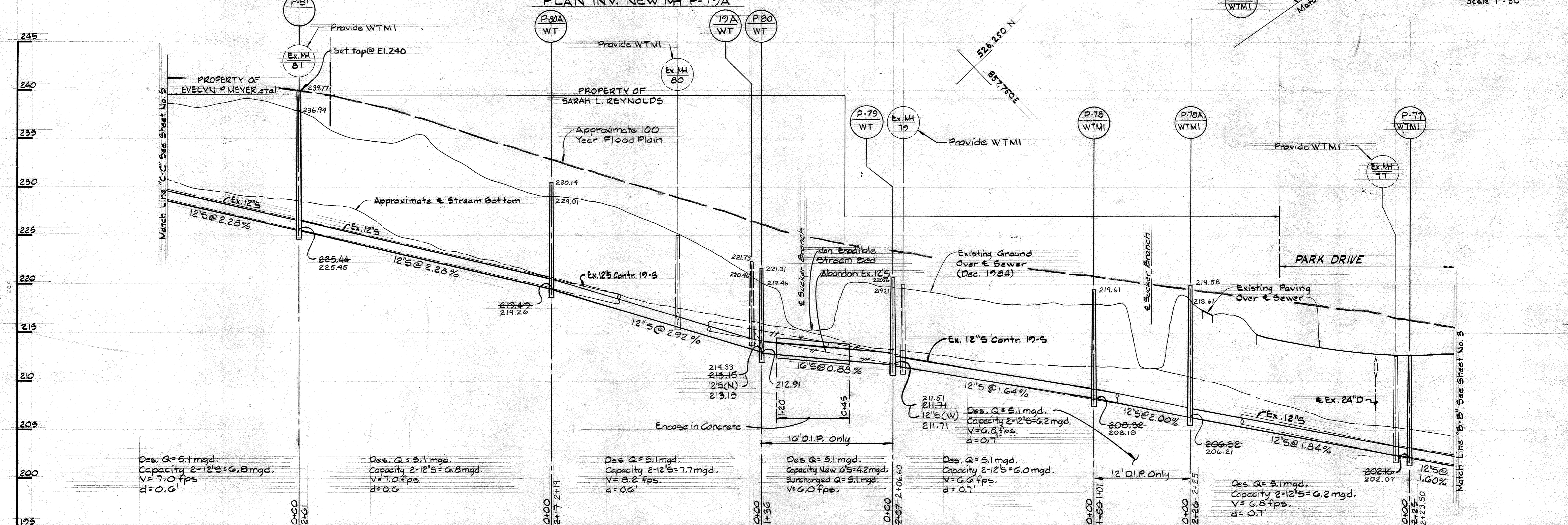
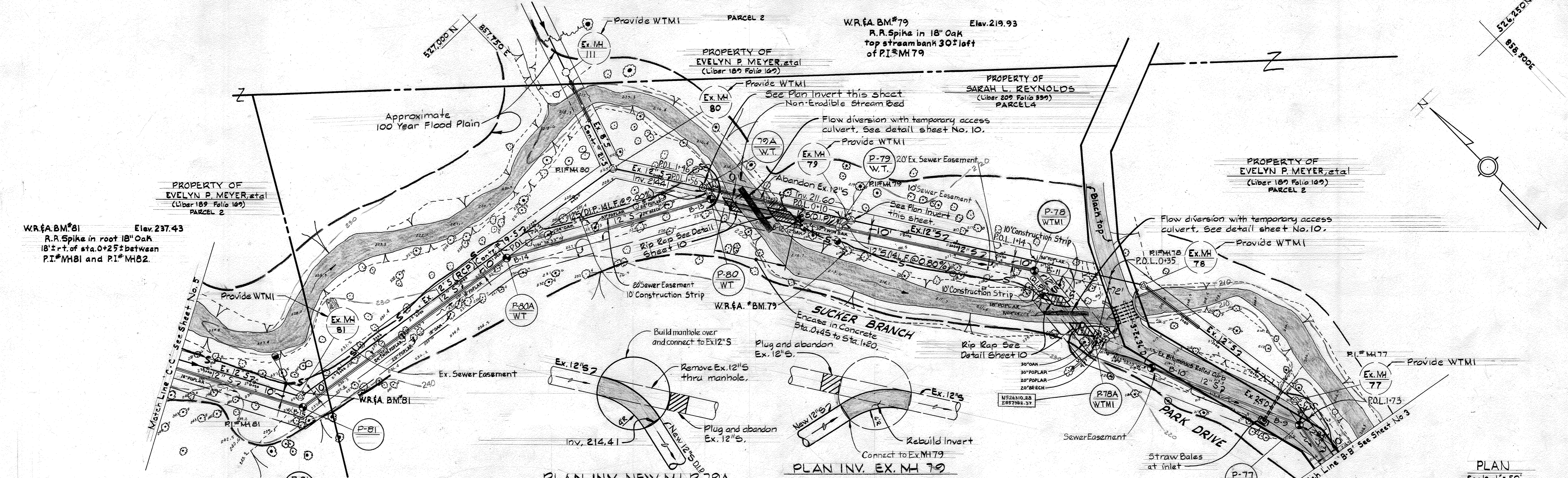
DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND
 Director of Public Works - DATE
 Chief - Bureau of Engineering - DATE
 Chief - Bureau of Utilities - DATE

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

DES: J.R.K.	DATE:
DRN: G.T.F.	BY: NO.
CHK: R.B.N.	REVISION:
	DATE:

PLAN AND PROFILE OF
 SEWER MAIN
 600' SCALE MAP NO. 25 BLOCK NO. 862

ELLICOTT CITY
 SUCKER BRANCH PARALLEL INTERCEPTOR
 PROJECT NO. S-6102
 CONTRACT NO. 10-1305
 SCALE AS SHOWN
 SHEET 3 OF 10



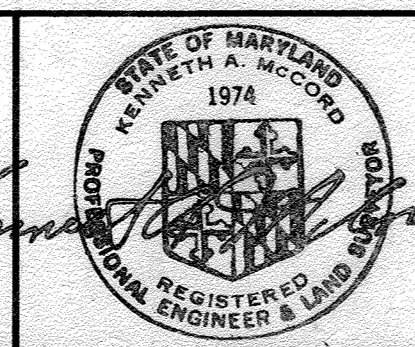
PROFILE Scale: H:V = 1":5'

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND

Director of Public Works - DATE
 Chief - Bureau of Engineering - DATE
 Chief - Bureau of Utilities - DATE

WHITMAN, REQUARDT
 AND ASSOCIATES
 ENGINEERS

2315 ST. PAUL ST.
 BALTIMORE, MARYLAND



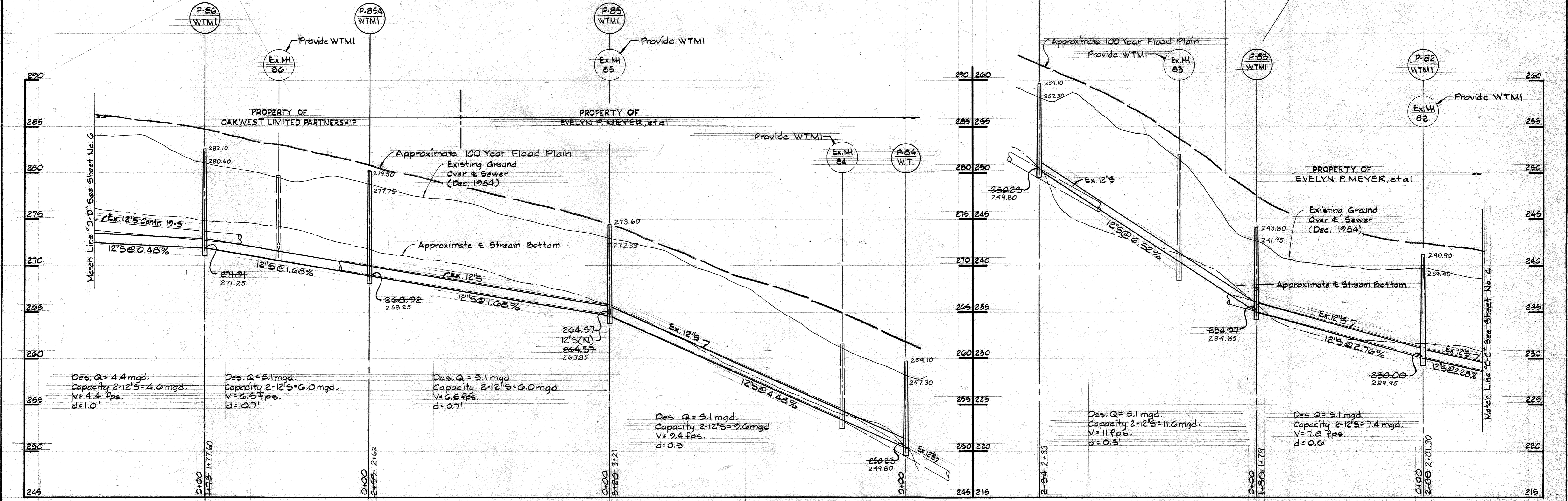
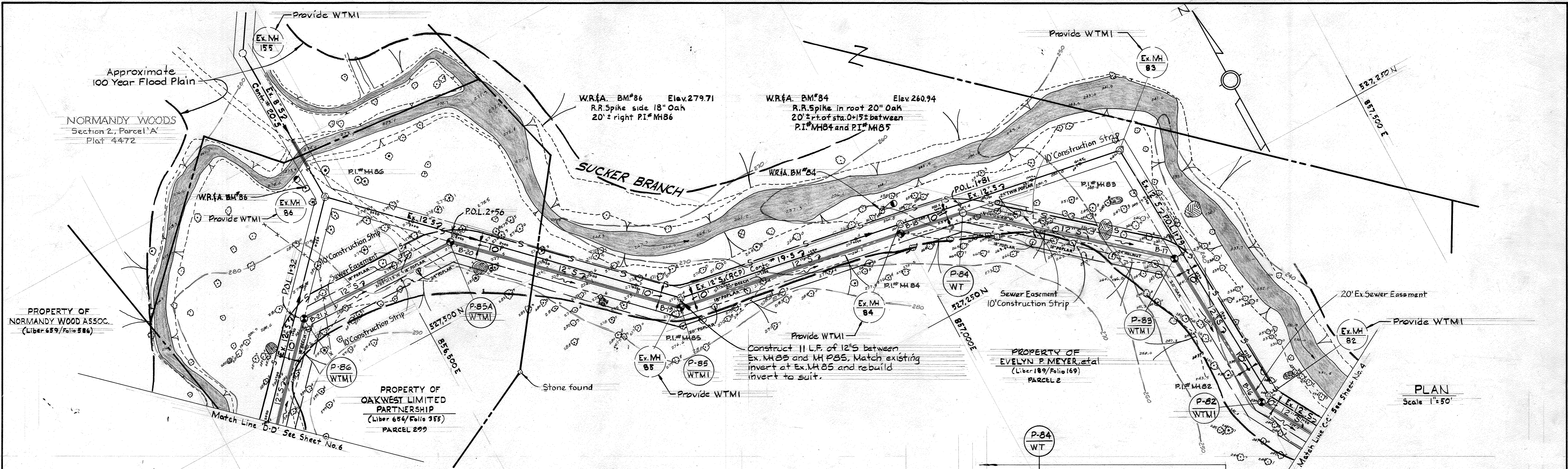
DES: J.R.K.	BY: NO.	REVISION	DATE
DRN: G.T.F.			
CHK: R.B.N.			
DATE:			

PLAN AND PROFILE OF
 SEWER MAIN

600' SCALE MAP NO. 25 BLOCK NO. 1

ELLICOTT CITY
 SUCKER BRANCH PARALLEL INTERCEPTOR
 PROJECT NO. S-6102
 CONTRACT NO. 10-1305

SCALE AS SHOWN
 SHEET 4 OF 10



DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

John E. Harms 9-7-85
DIRECTOR OF PUBLIC WORKS - DATE

Robert Wood 9/3/85
CHIEF - BUREAU OF UTILITIES - DATE

William B. Ray 8-22-85
CHIEF - BUREAU OF ENGINEERING - DATE

Paul H. Pappas 8/12/85
CHIEF - UTILITY DESIGN DIVISION - DATE

WHITMAN, REQUARDT
AND ASSOCIATES
ENGINEERS

2315 ST. PAUL ST.
BALTIMORE, MARYLAND

STATE OF MARYLAND
KENNETH A. MCCORD
1978
REGISTERED
ENGINEER & LAND SURVEYOR

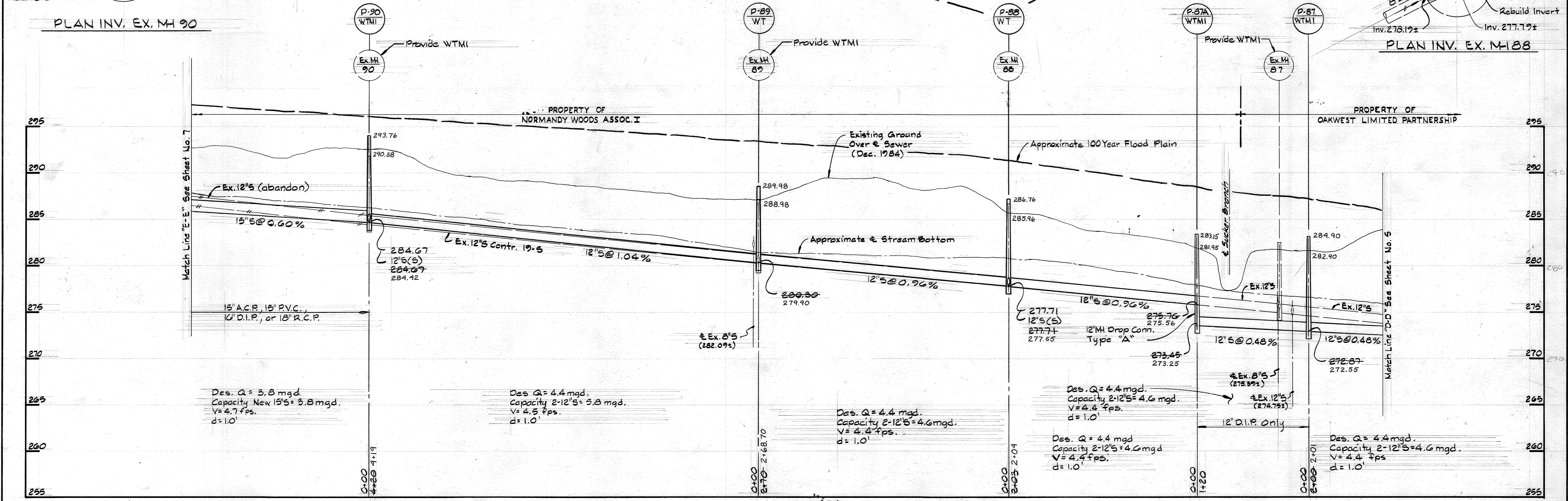
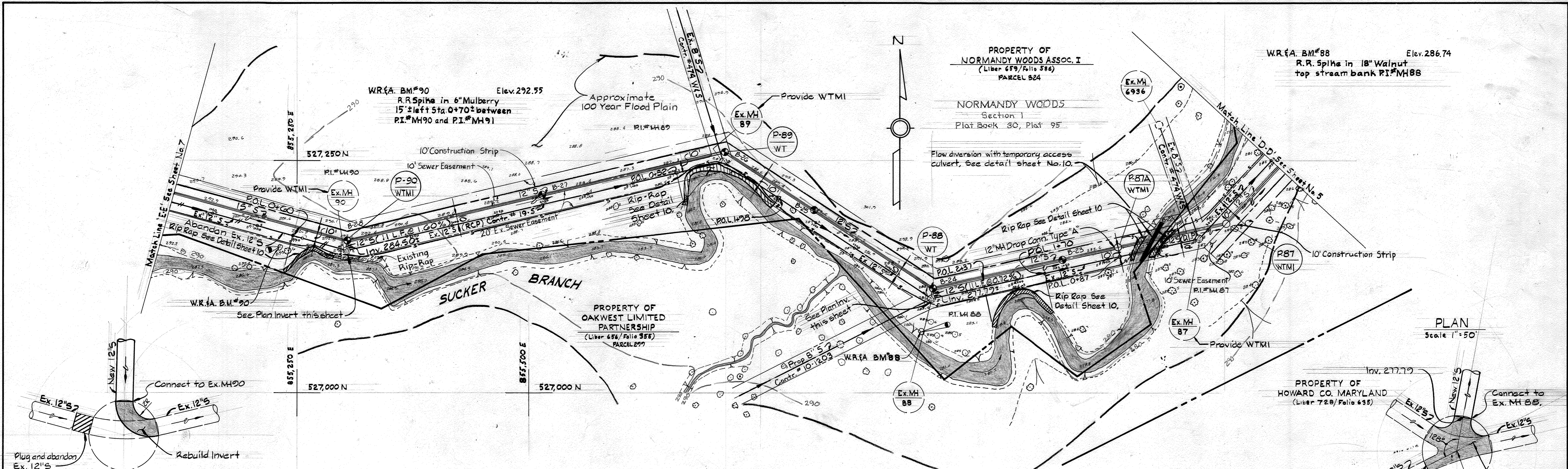
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DRN: G.T.F.			
CHK: R.B.N.			
DATE:	BY:	NO.	REVISION

PLAN AND PROFILE OF
SEWER MAIN

600' SCALE MAP NO. 25 BLOCK NO.

ELLICOTT CITY
SUCKER BRANCH PARALLEL INTERCEPTOR
PROJECT NO. S-6102
CONTRACT NO. 10-1305

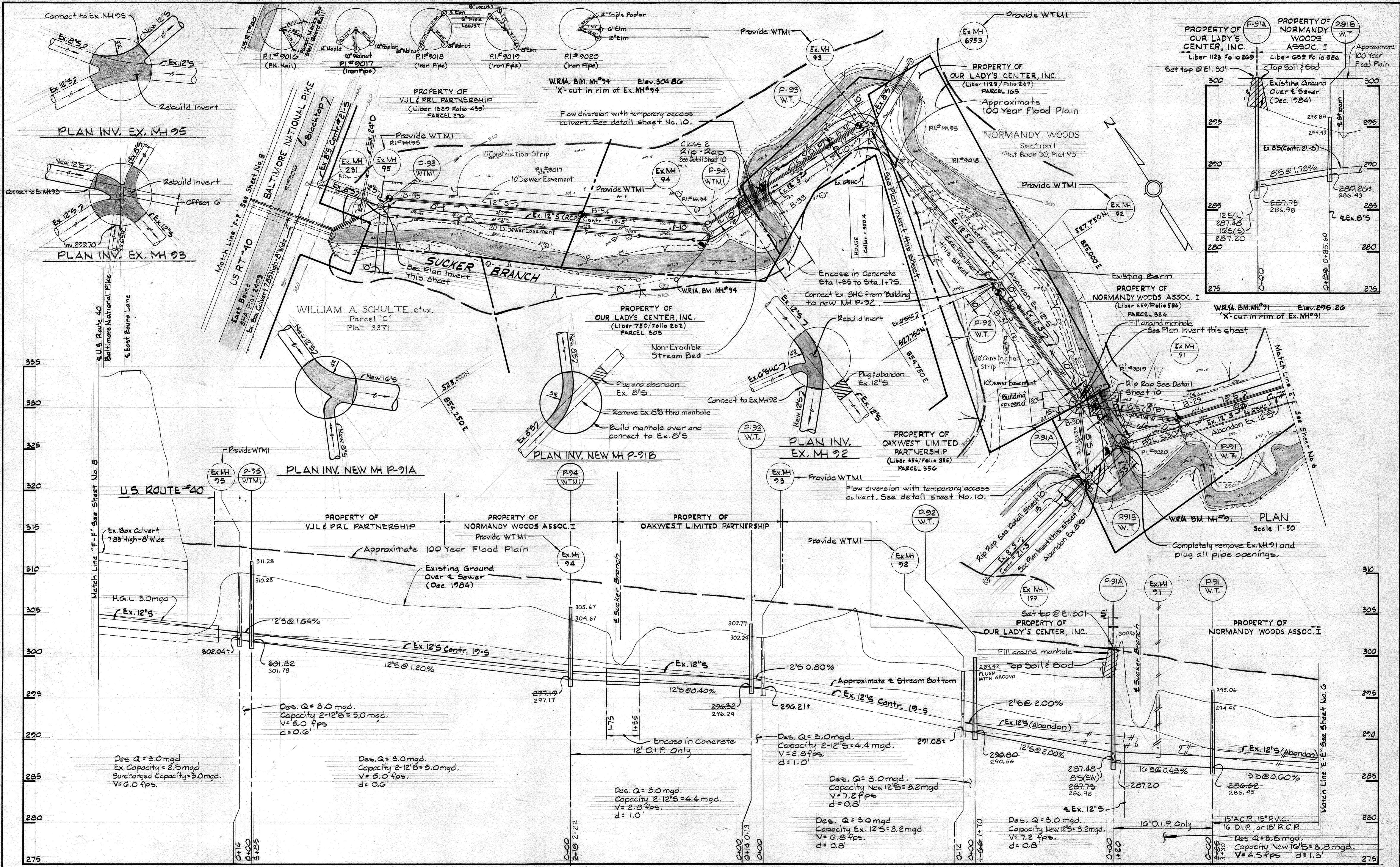
SCALE AS SHOWN
SHEET 5 OF 10



DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND Director of Public Works - DATE Robert Wood for MS 9/3/85 Chief - Bureau of Utilities - DATE	WHITMAN, REQUARDT AND ASSOCIATES ENGINEERS 2315 ST. PAUL ST. BALTIMORE, MARYLAND	DES: J.R.K. DRN: G.T.F. CHK: R.B.N. DATE:	PLAN AND PROFILE OF SEWER MAIN		ELICOTT CITY SUCKER BRANCH PARALLEL INTERCEPTOR PROJECT NO. S-6102 CONTRACT NO. 10-1305	SCALE AS SHOWN SHEET 6 OF 10
			BY: NO. REVISION DATE	600' SCALE MAP NO. 25 BLOCK NO. 1		

W.O. 10600

AS-BUILT JOHN E. HARMS AND ASSOC. JULY 1987 August 1, 1985



DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND

Robert J. Norman 9-7-81
 DIRECTOR OF PUBLIC WORKS - DATE

Robert J. Norman 9/3/85
 CHIEF - BUREAU OF UTILITIES - DATE

Paul J. ... 8-23-85
 CHIEF - BUREAU OF ENGINEERING - DATE

Paul J. ... 8/23/85
 CHIEF - UTILITY DESIGN DIVISION - DATE

WHITMAN, REQUARDT
 AND ASSOCIATES
 ENGINEERS

2315 ST. PAUL ST.
 BALTIMORE, MARYLAND

REGISTERED PROFESSIONAL ENGINEER & LAND SURVEYOR
 1974

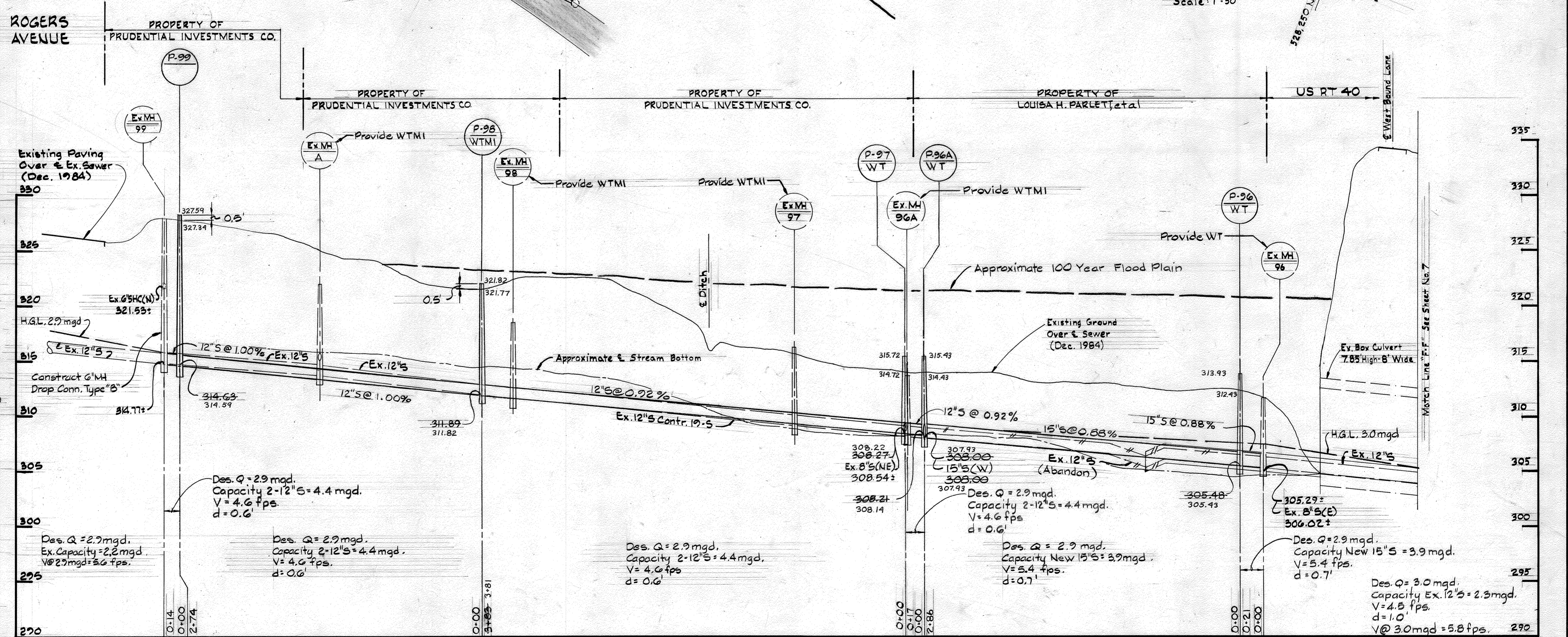
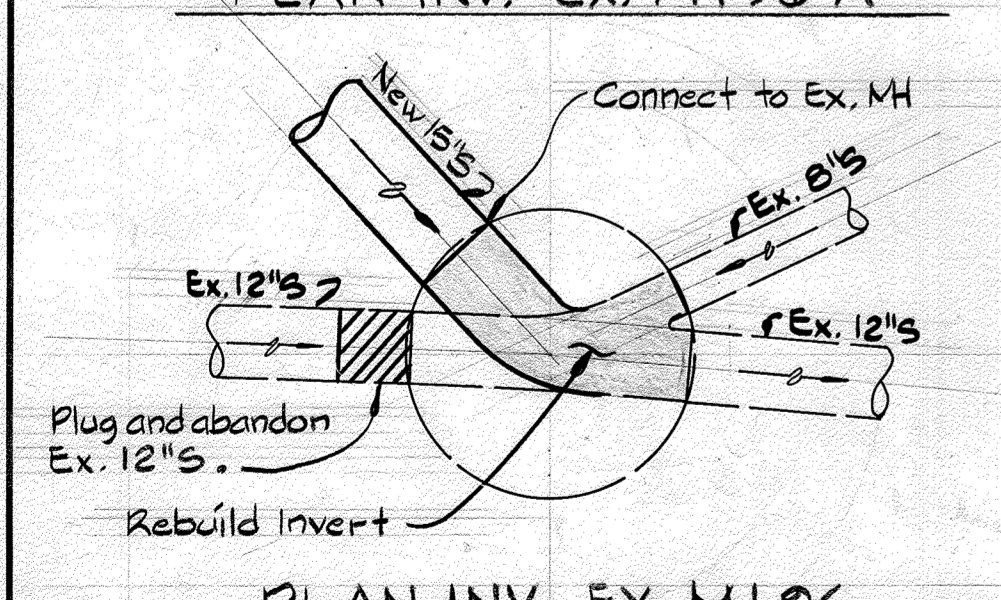
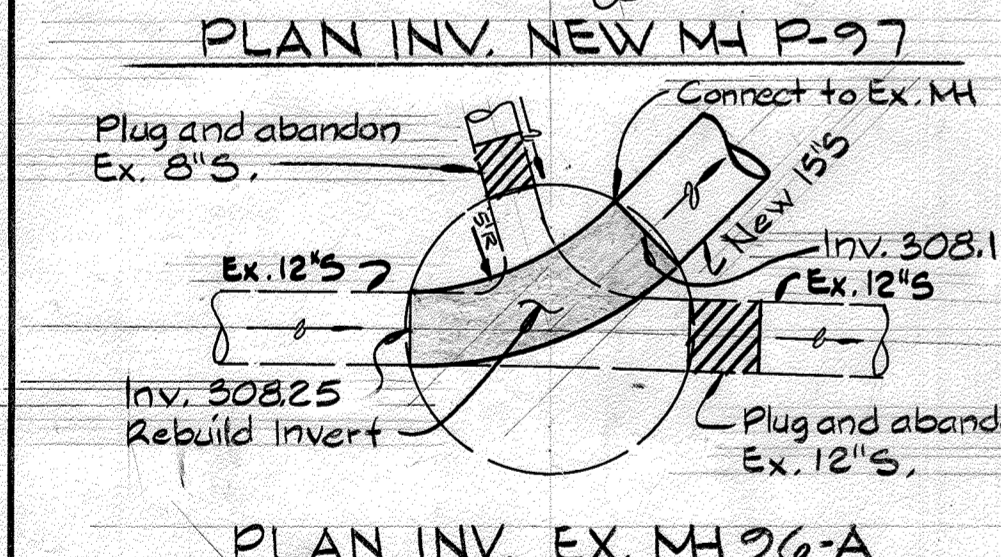
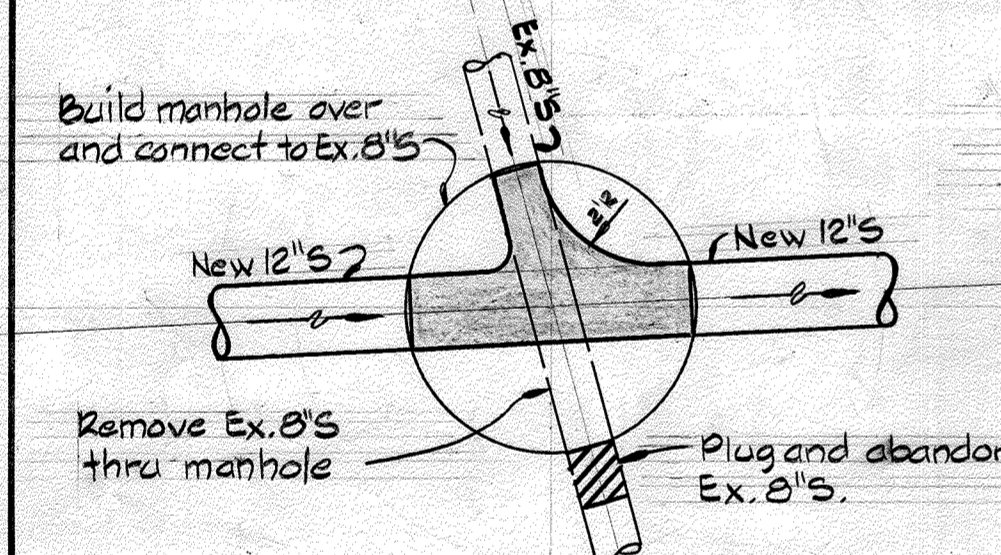
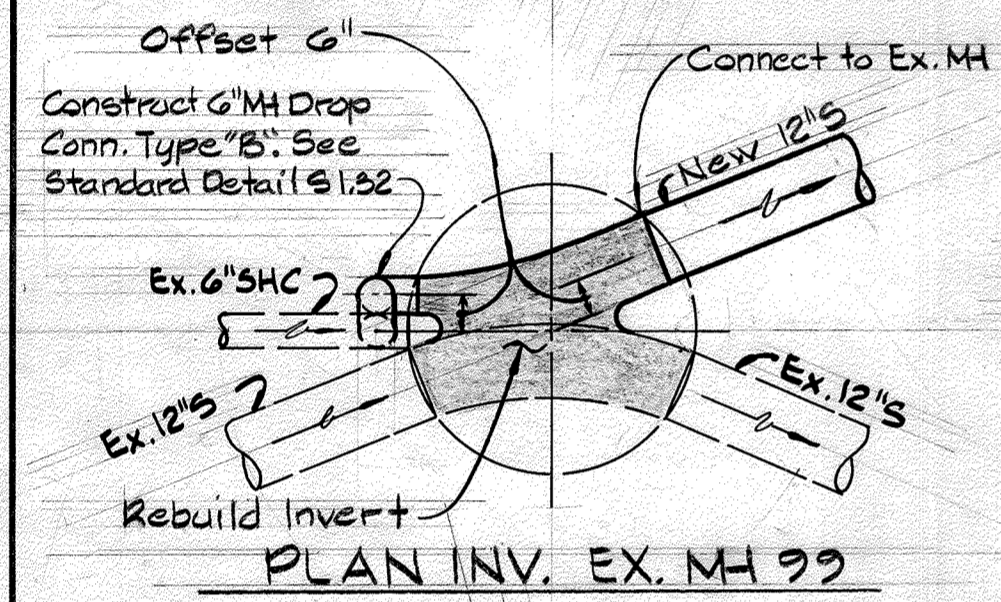
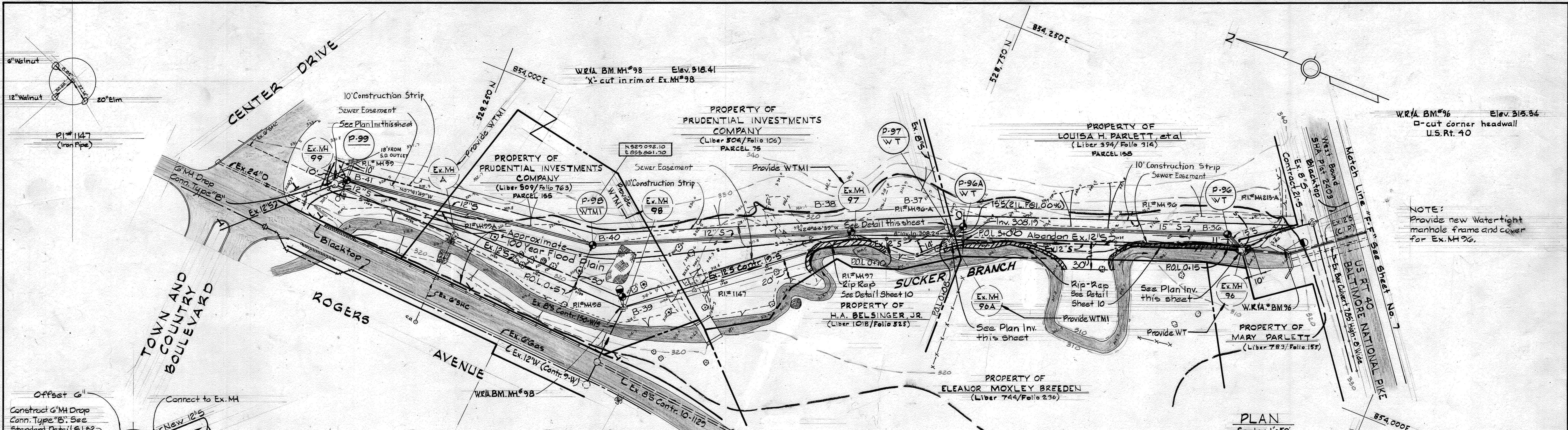
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DRN: G.T.F.			
CHK: P.B.N.			
DATE:			
BY:	NO.	REVISION	DATE

PLAN AND PROFILE OF
 SEWER MAIN

600' SCALE MAP NO. 25/18 BLOCK NO. 1/19

ELICOTT CITY
 SUCKER BRANCH PARALLEL INTERCEPTOR
 PROJECT NO. S-6102
 CONTRACT NO. 10-1305

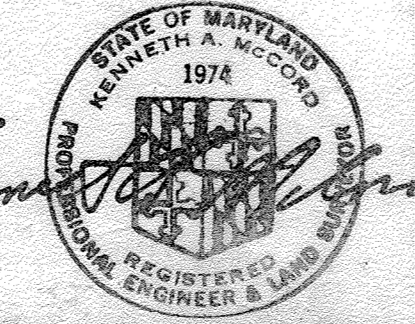
SCALE AS SHOWN
 SHEET 7 OF 10



PROFILE Scale: H: 1"=50' V: 1"=5' 17-529/854 17-528/854 18-528/855.5 FB# 6943, 6949

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND
 Director of Public Works - DATE 9-7-85
 Chief - Bureau of Engineering - DATE 8-23-85
 Chief - Bureau of Utilities - DATE 9/3/85
 Chief - Utility Design Division - DATE 8/22/85

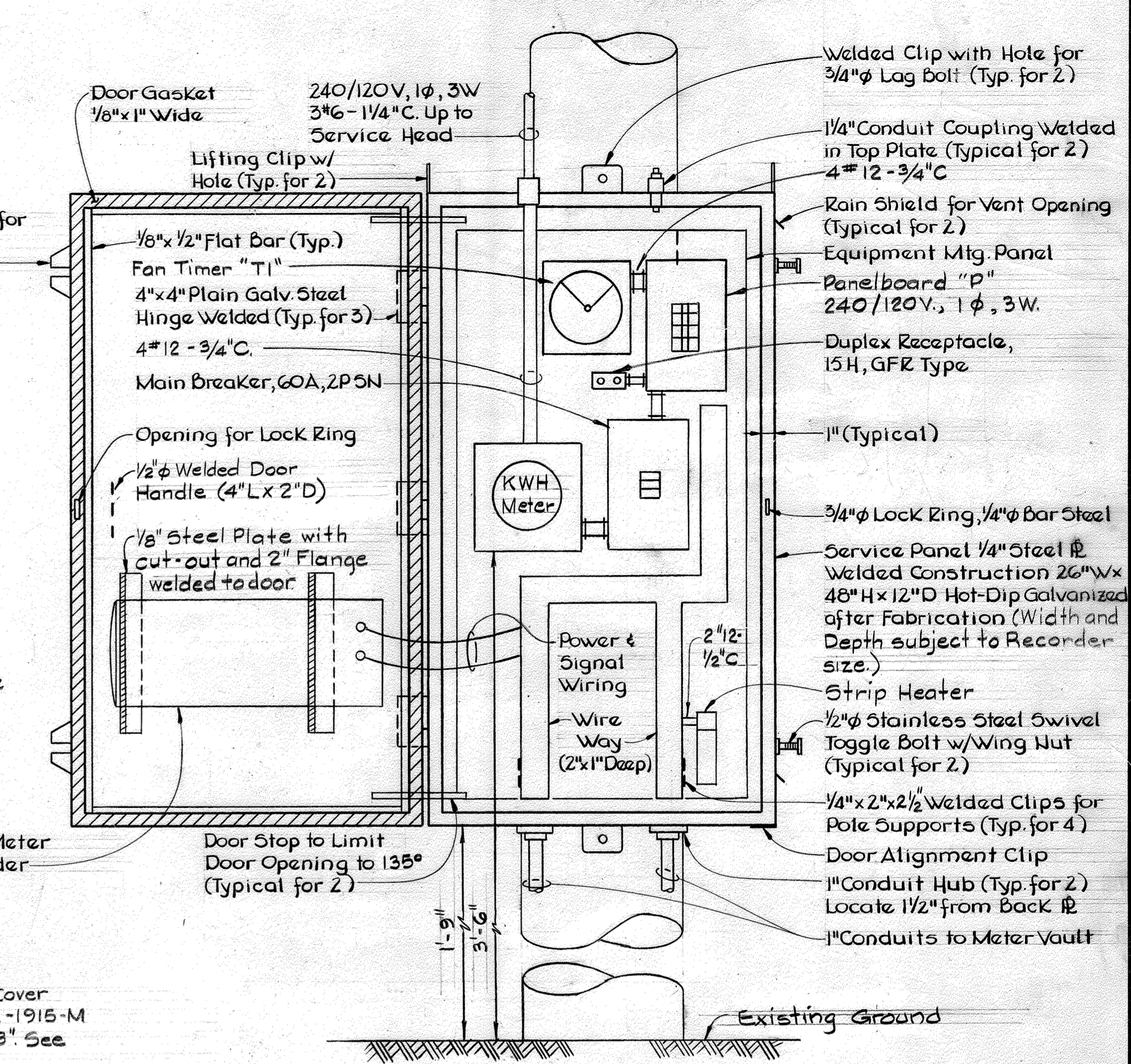
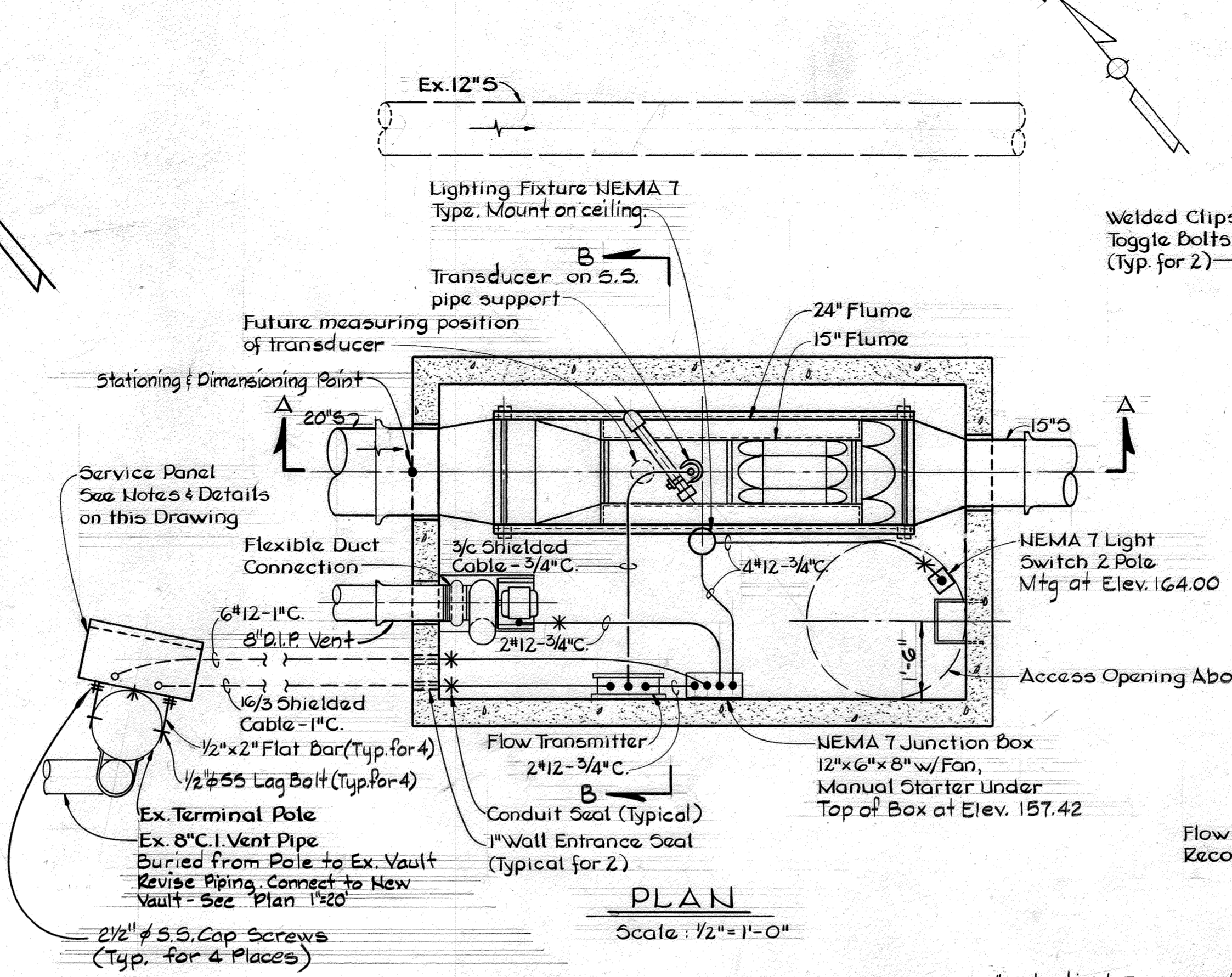
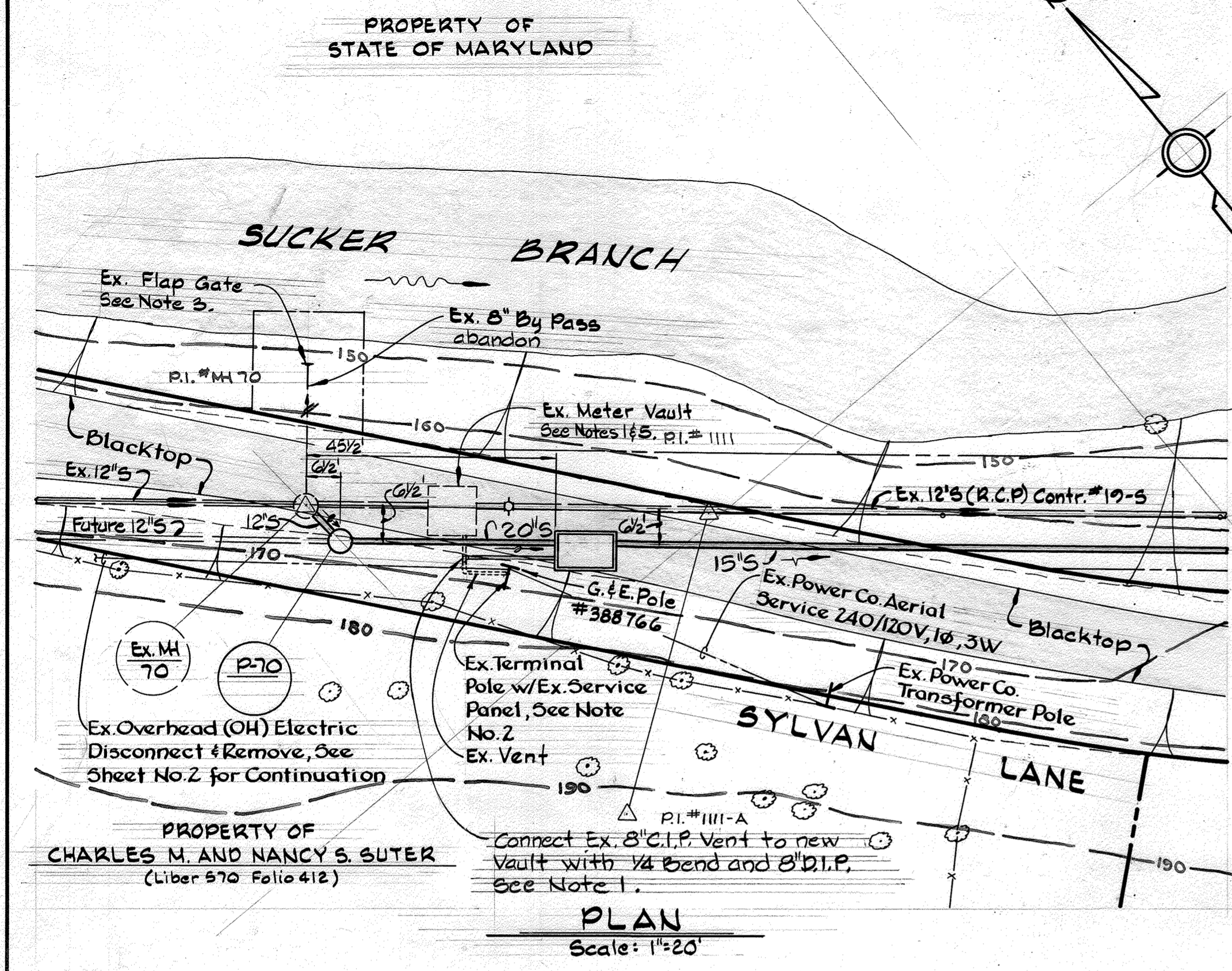
WHITMAN, REQUARDT
 AND ASSOCIATES
 ENGINEERS
 2315 ST. PAUL ST.
 BALTIMORE, MARYLAND



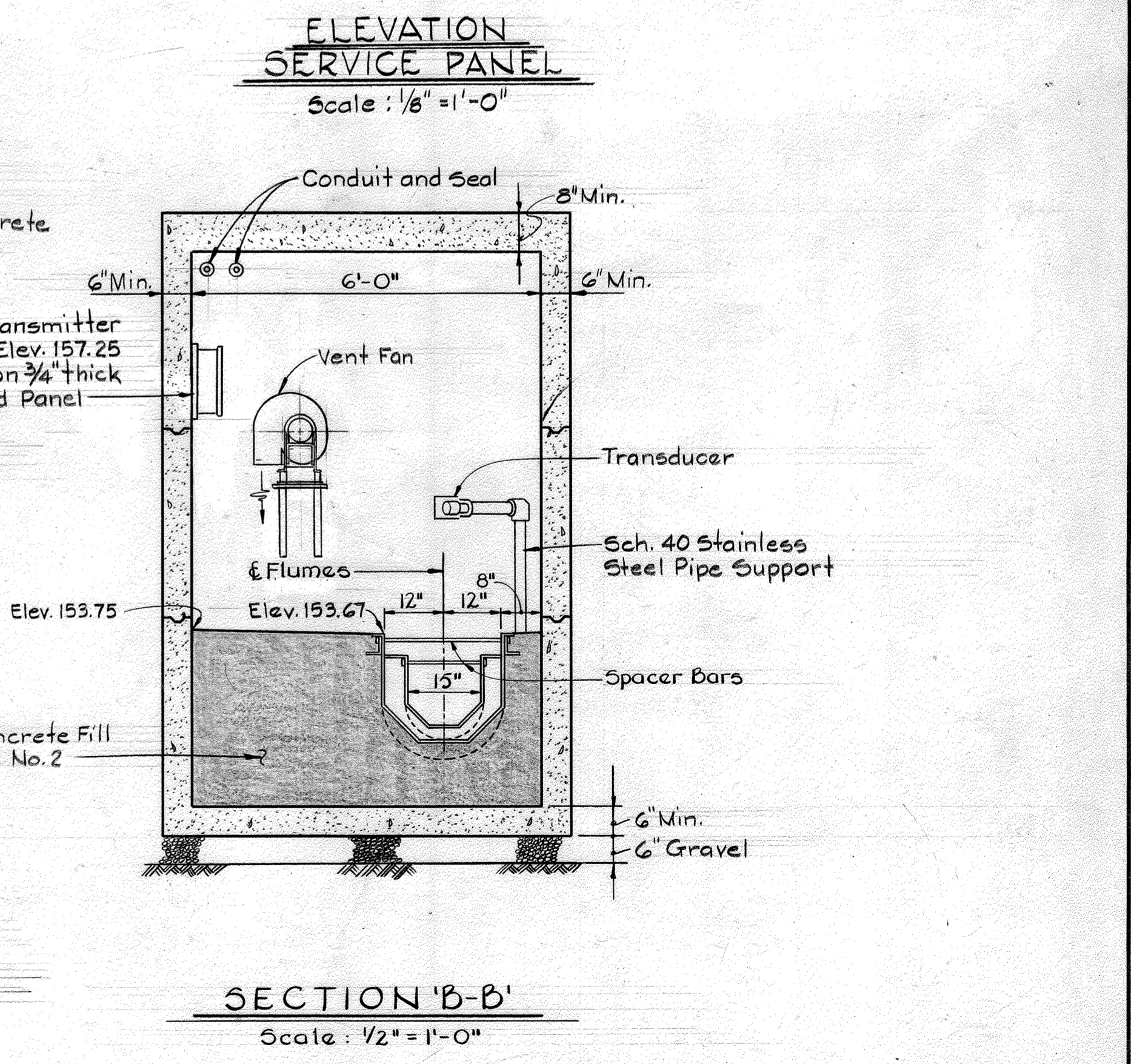
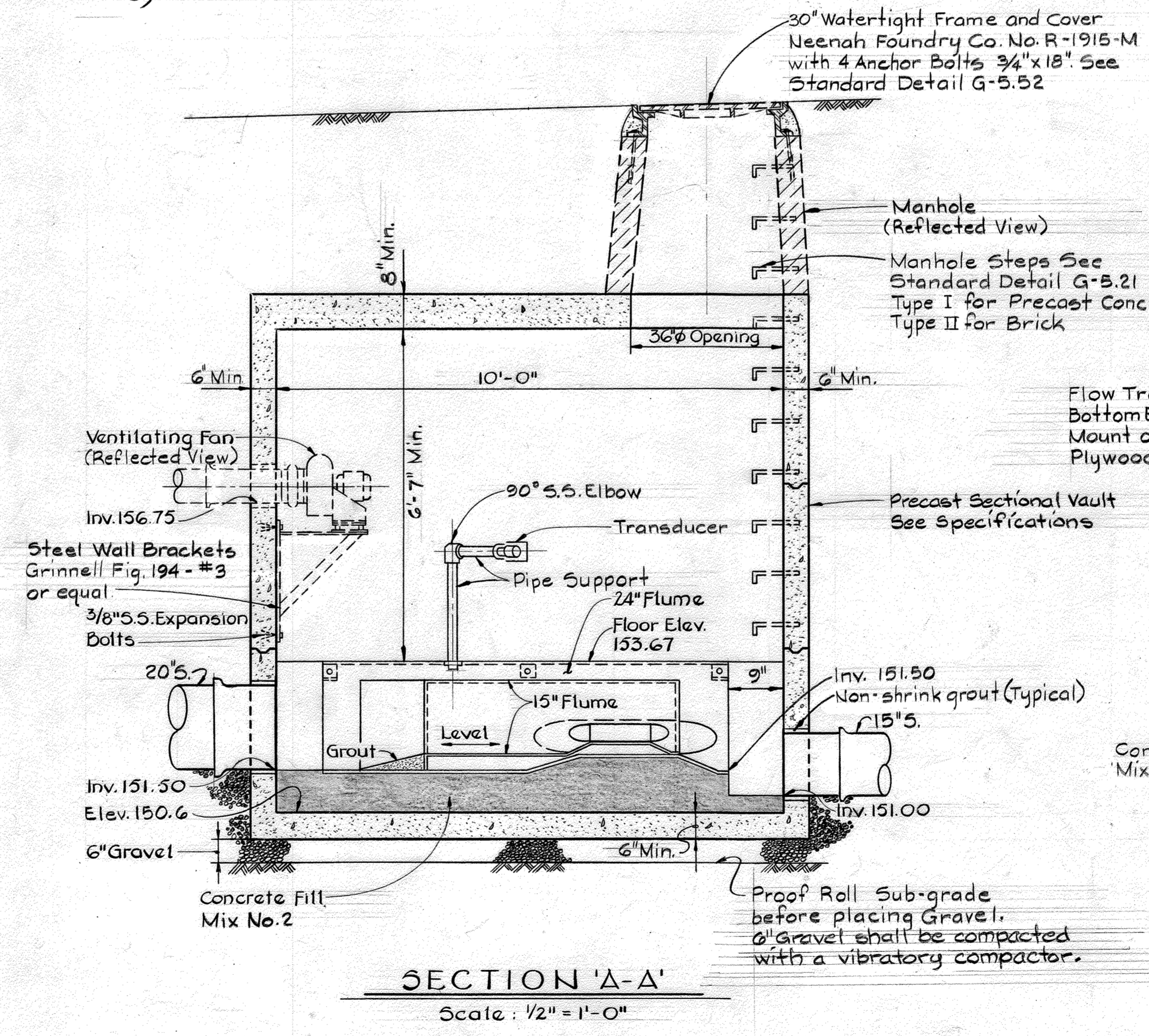
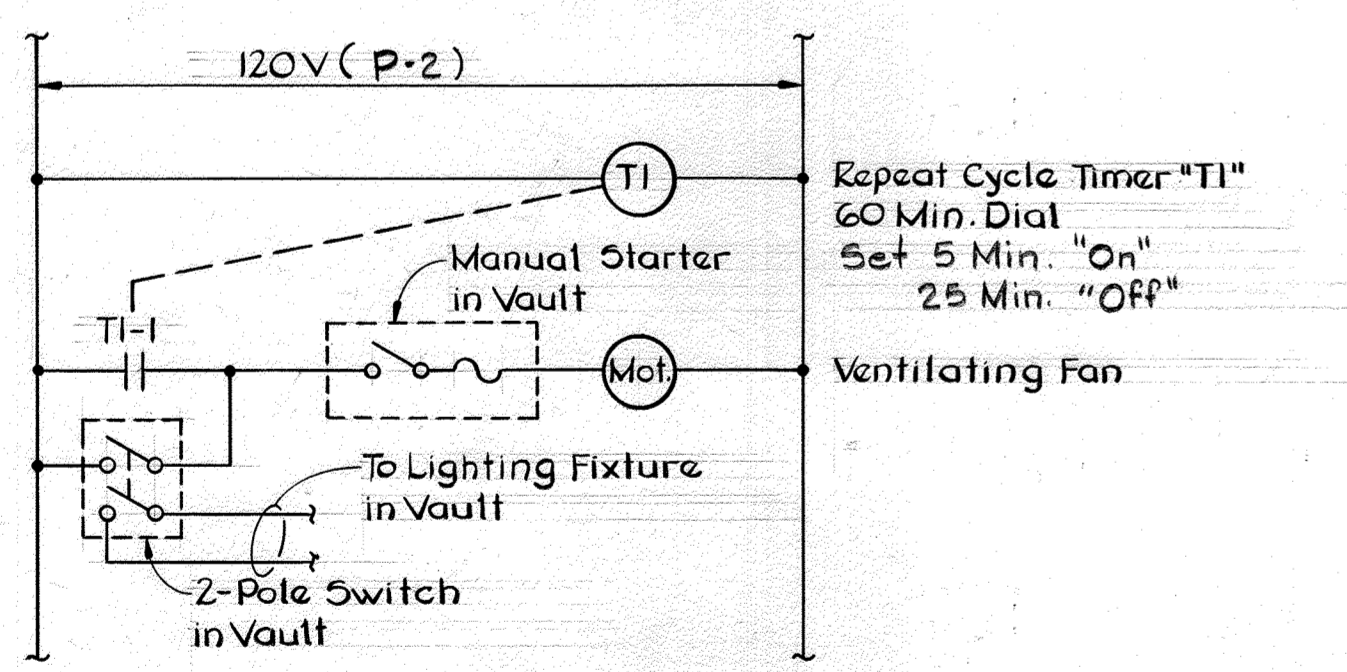
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DRN: G.T.F.			
CHK: R.B.N.			

PLAN AND PROFILE OF
 SEWER MAIN
 600' SCALE MAP NO. 17/18 BLOCK NO. 24/17

ELLICOTT CITY
 SUCKER BRANCH PARALLEL INTERCEPTOR
 PROJECT NO. S-6102
 CONTRACT NO. 10-1305
 SCALE AS SHOWN
 SHEET 8 OF 10

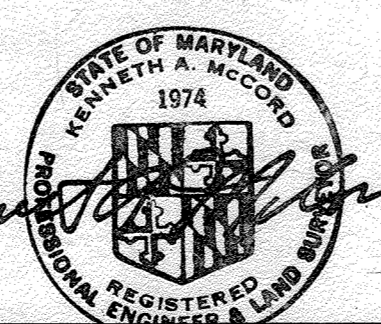


- Notes:**
1. Remove existing 8" magnetic flowmeter, flow recorder, sump pump and all electrical equipment from existing Meter Vault. Plug abandoned ventilation pipe opening.
 2. Disconnect and remove the existing Service Panel mounted on the existing Terminal Pole and provide new Service Panel as specified and as detailed on this drawing.
 3. Remove existing flap gate on By Pass and plug abandoned pipe.
 4. All equipment removed shall be delivered to the Bureau of Utilities yard on Old Montgomery Road.
 5. Replace 8" magnetic flow meter with 8" inch D.I.P. Existing sewer between MH 69 and MH 70 shall be kept open as possible future by pass to be activated when maintenance of new meter is being performed.



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

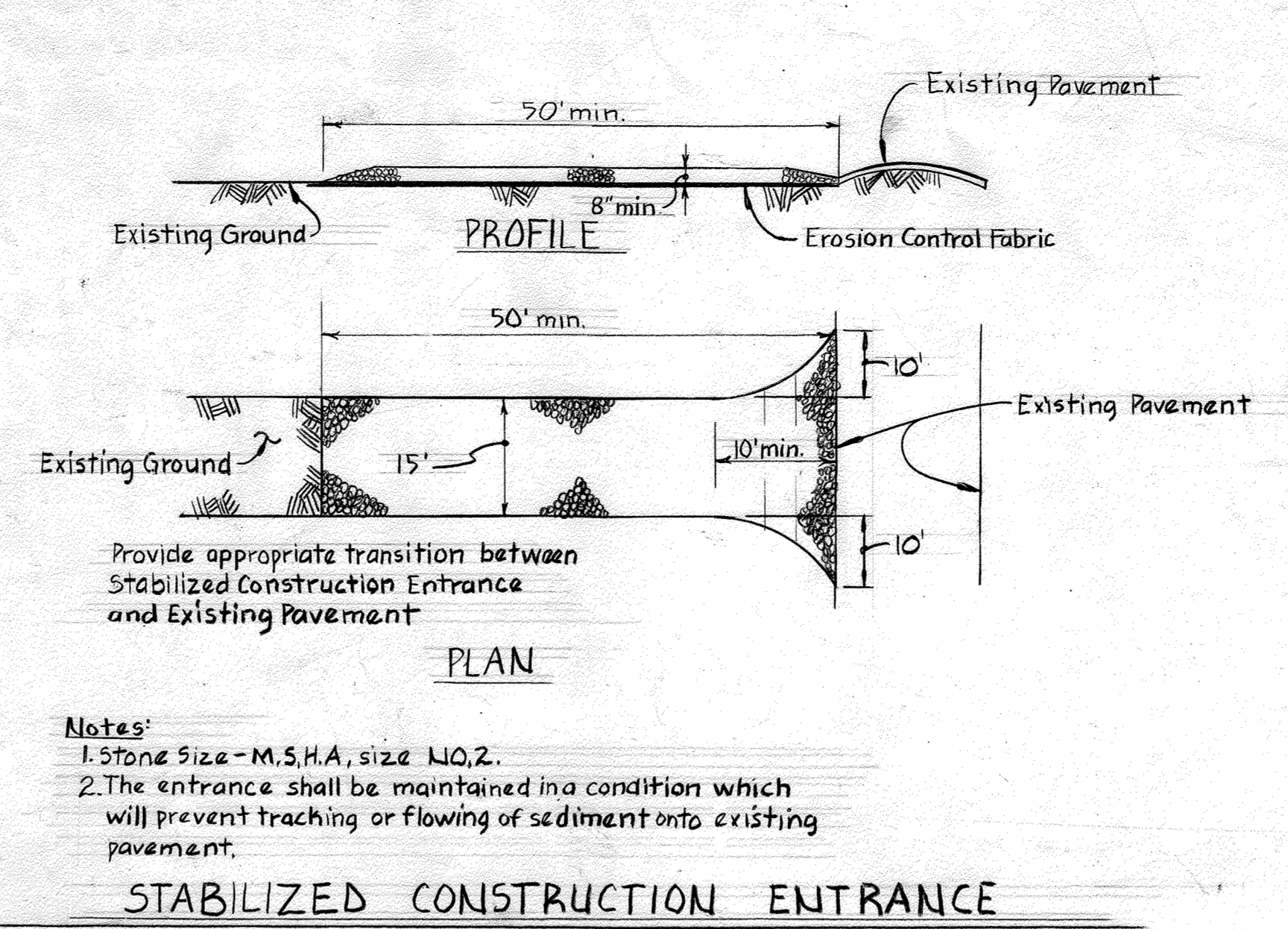
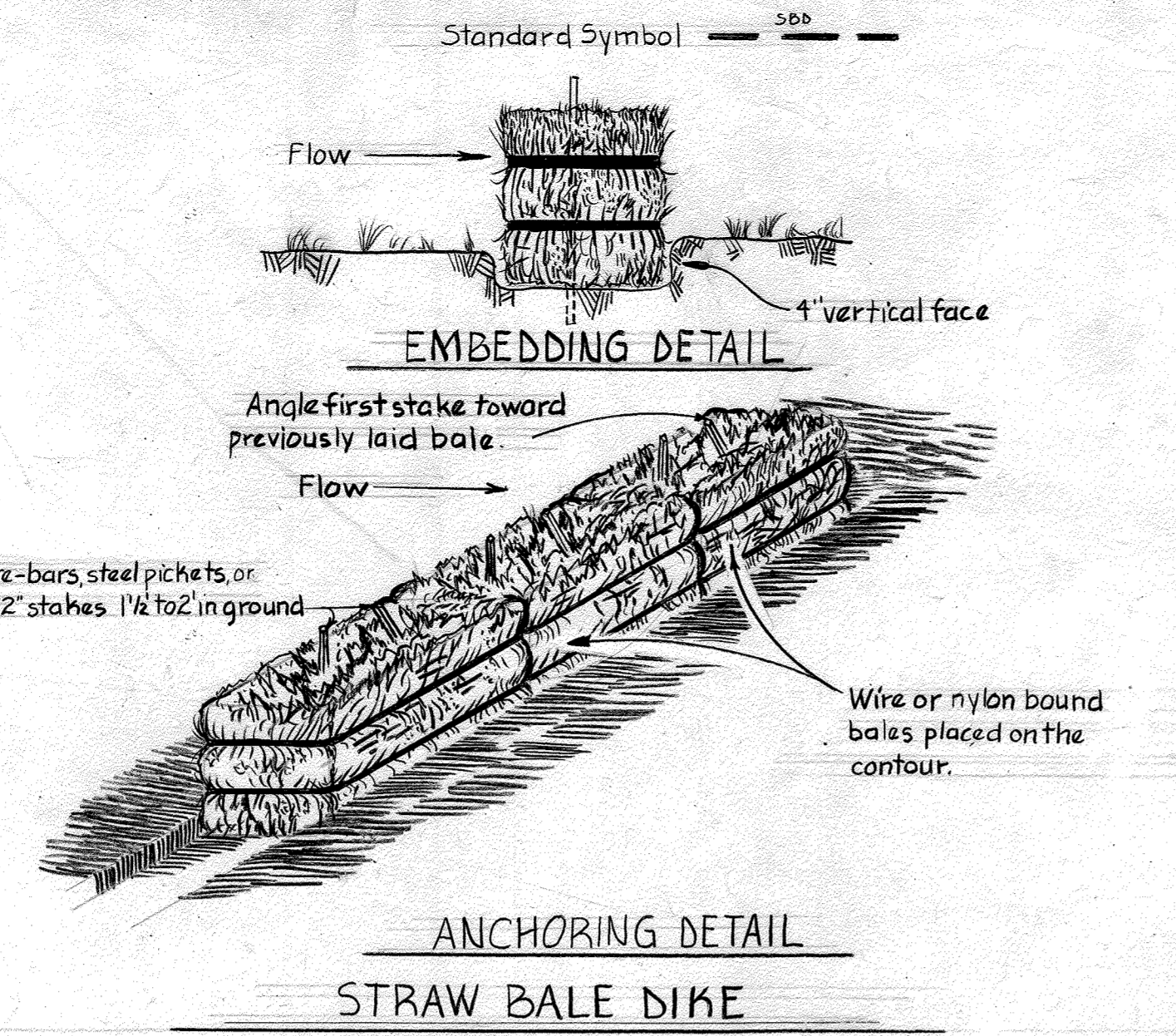
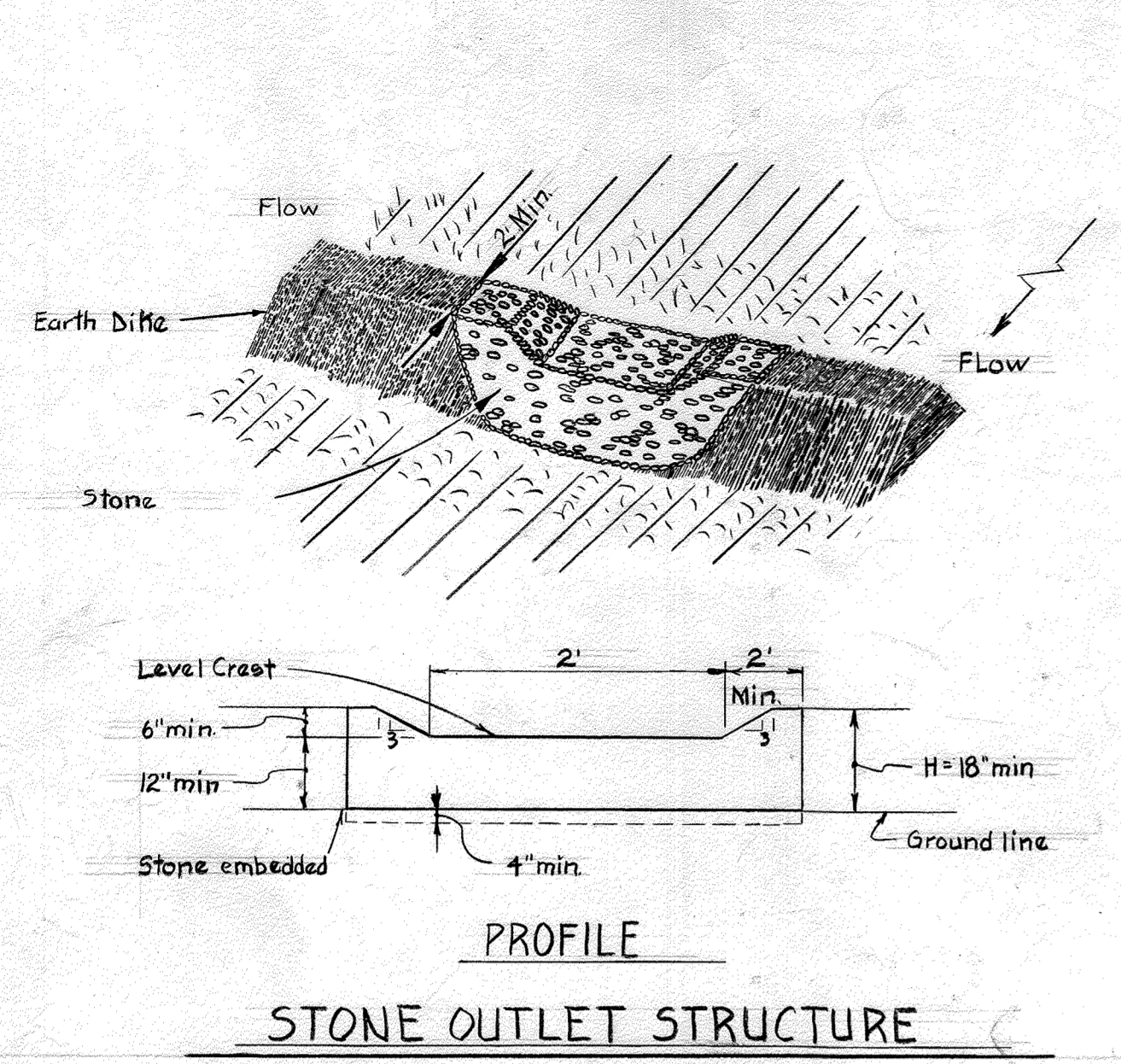


DES: E.F.D.			
DRN: T.W.A.			
CHK: K.B.N.			
DATE:	BY:	NO.	REVISION

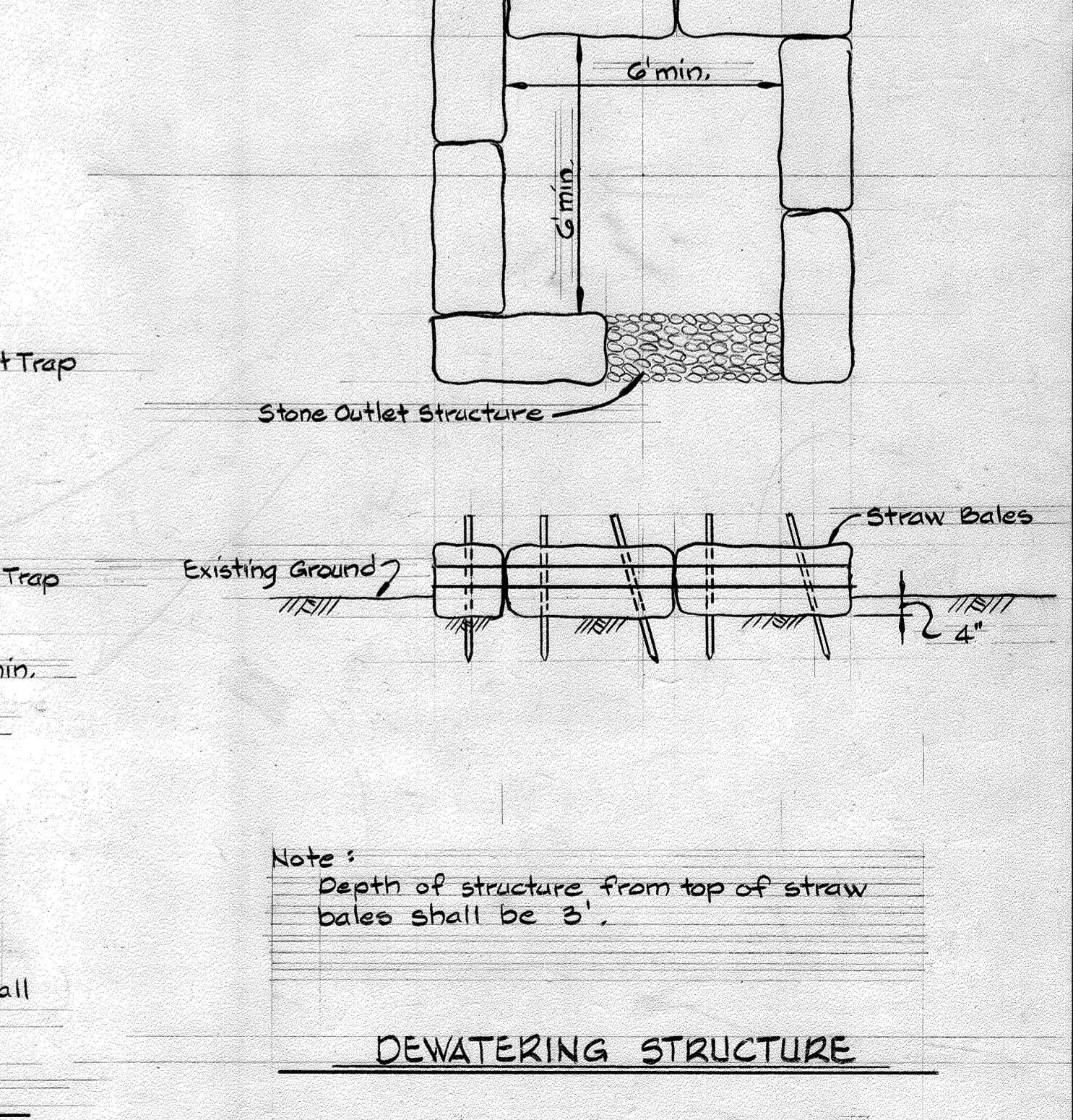
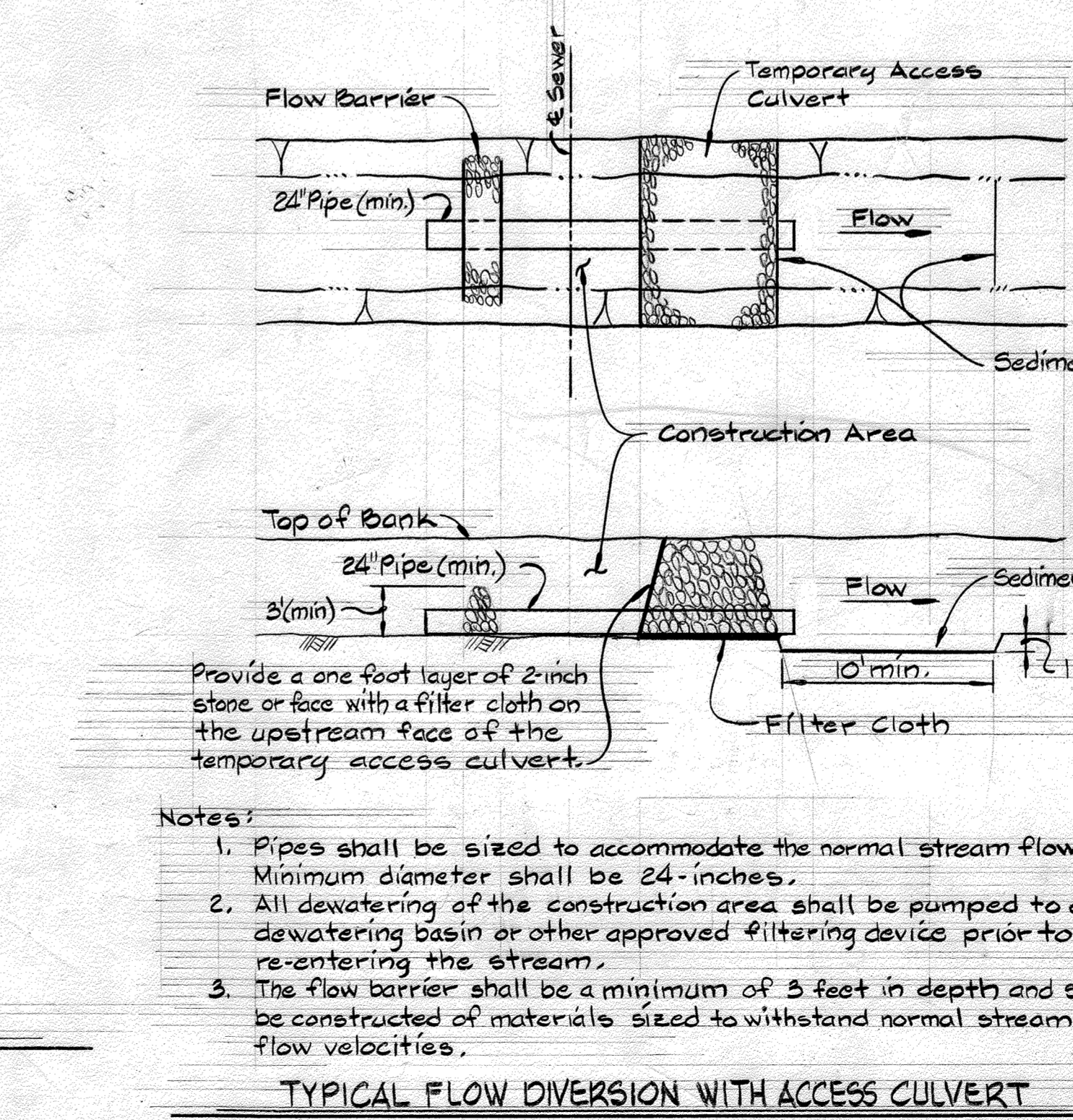
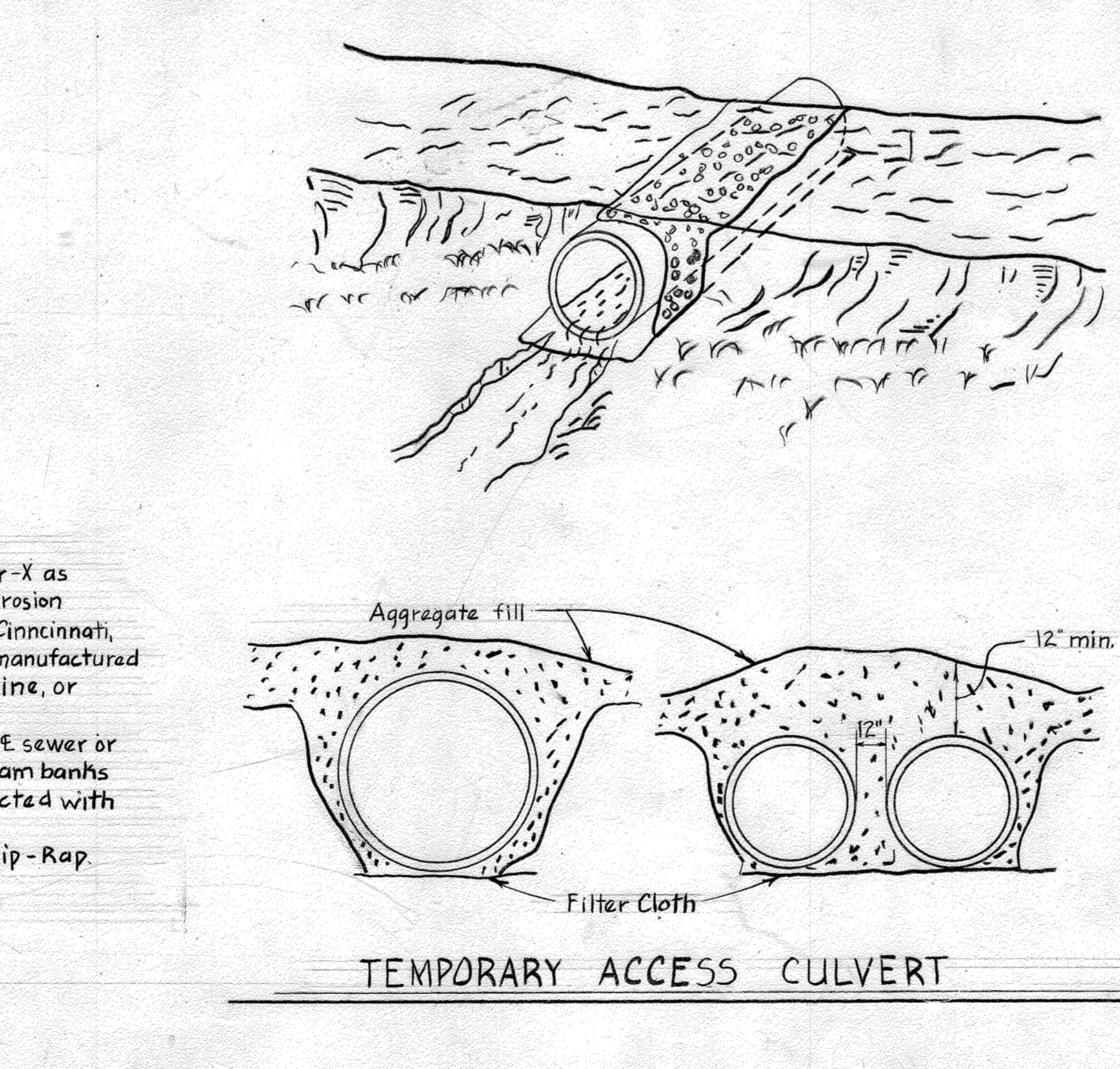
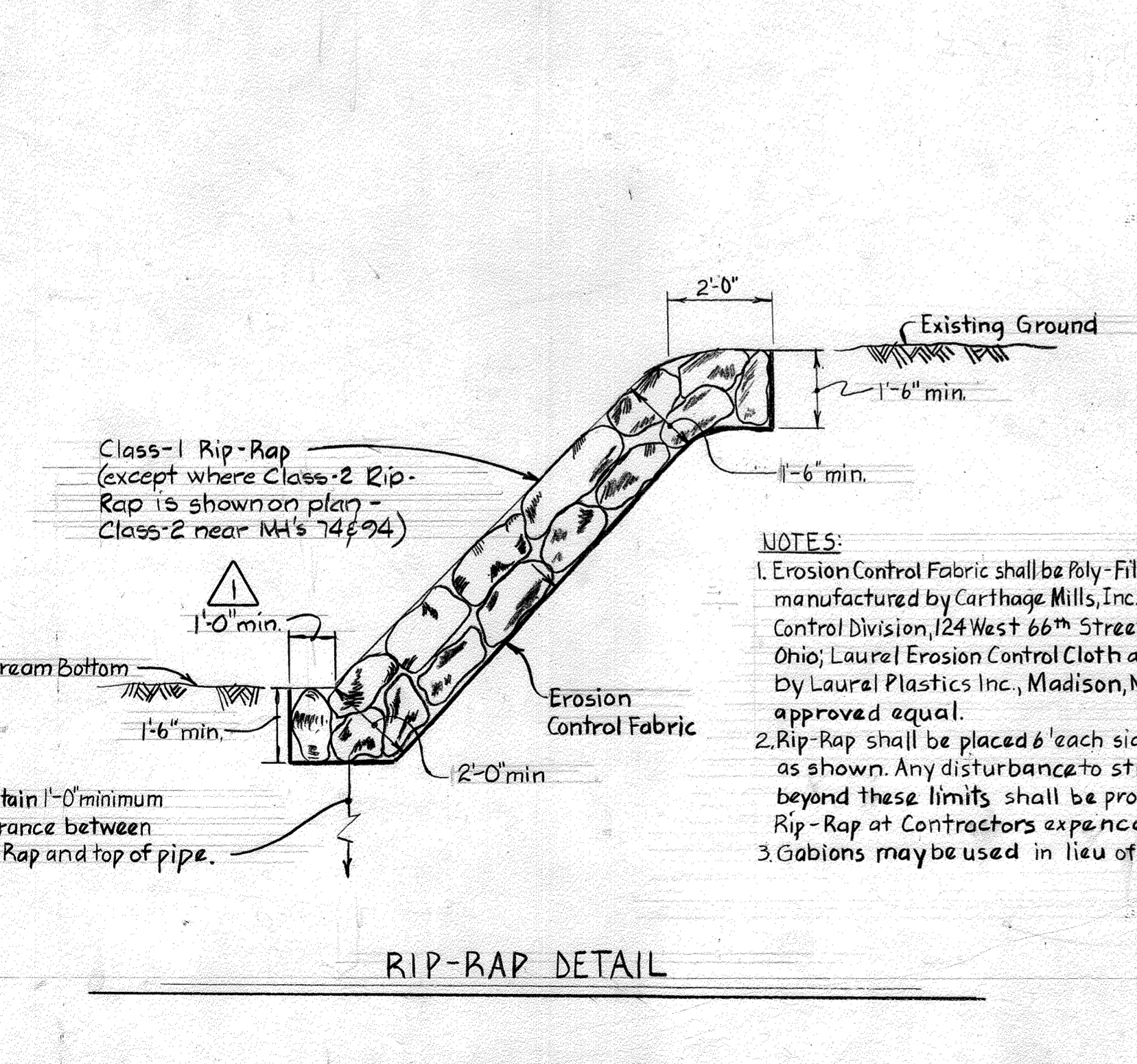
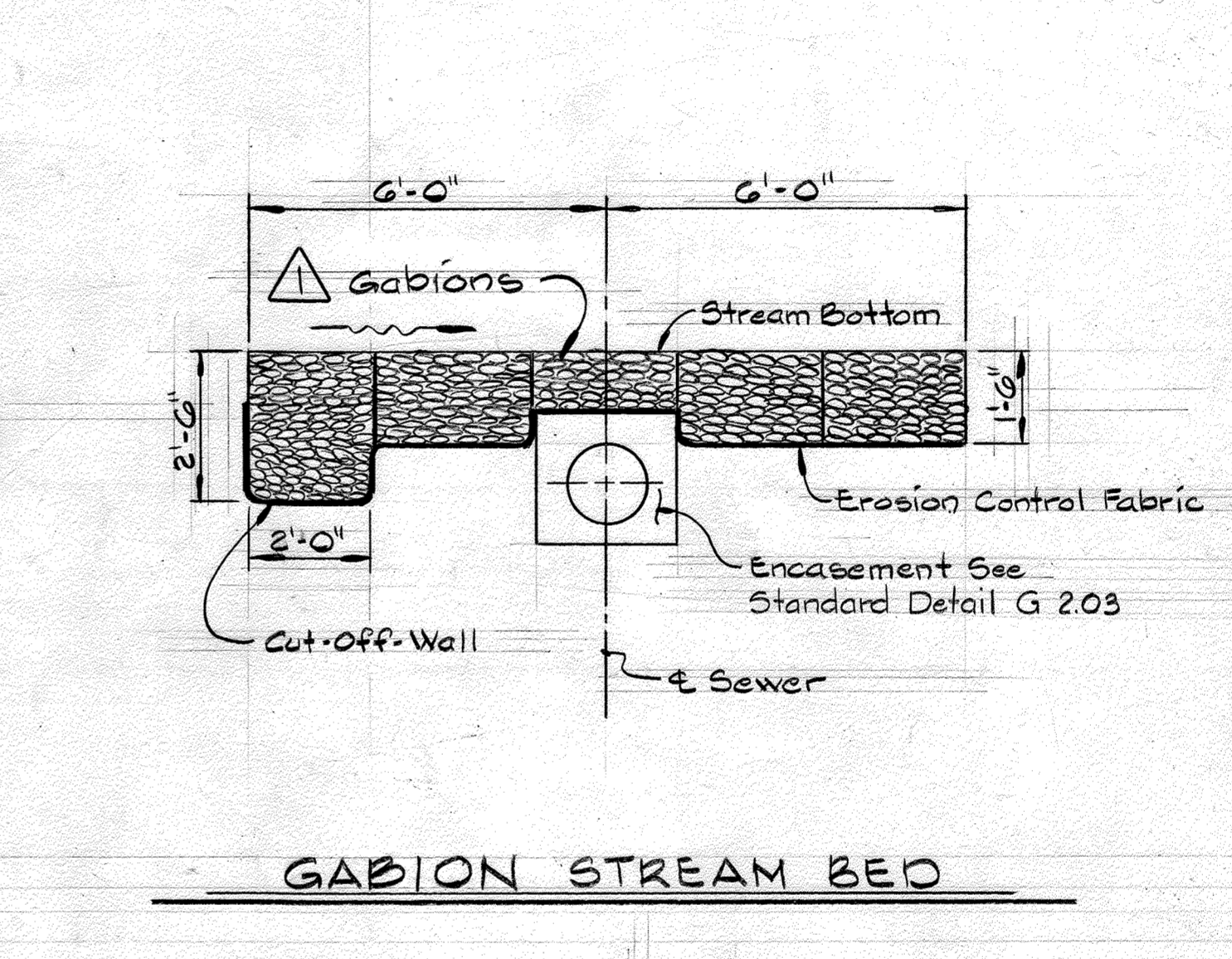
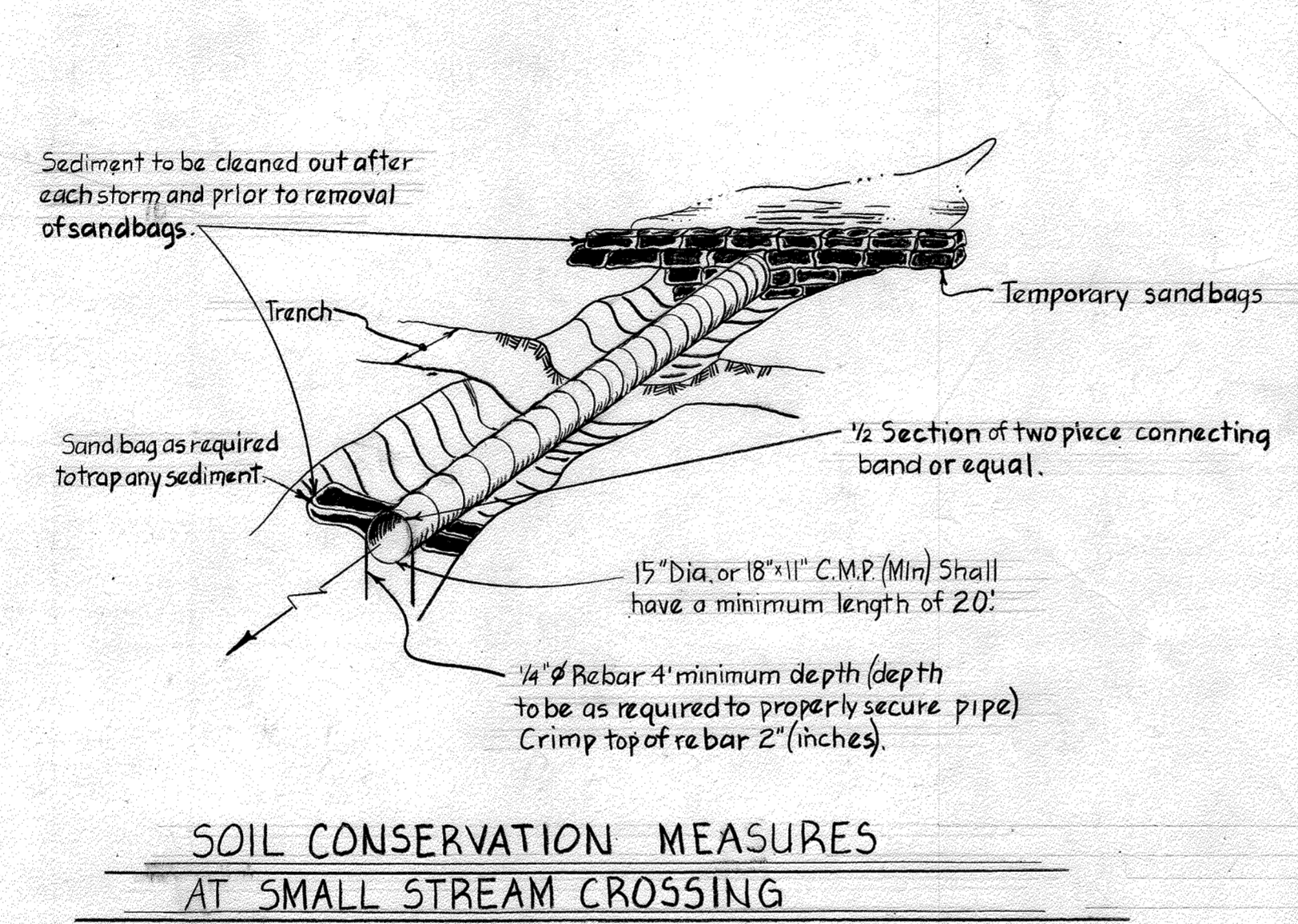
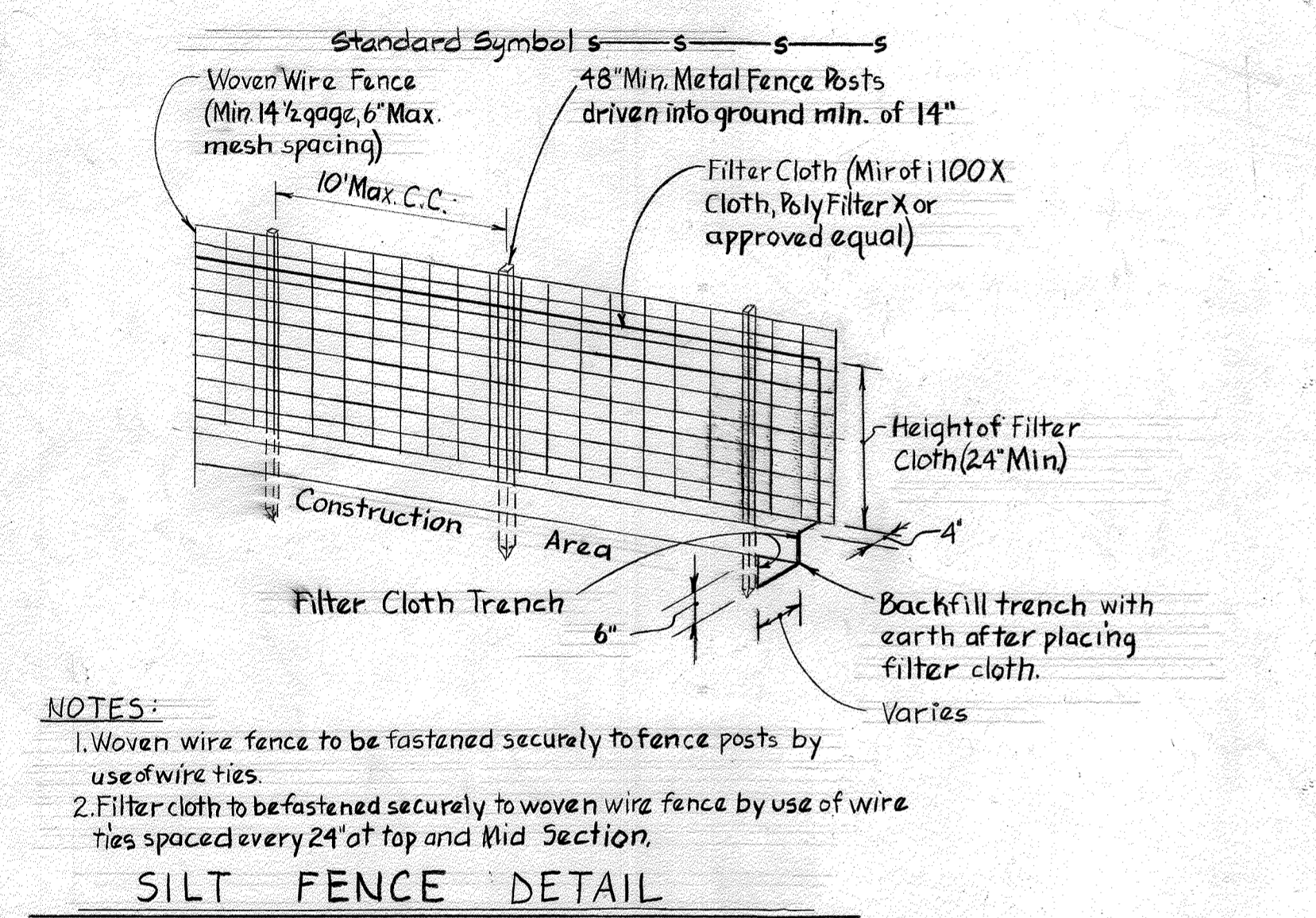
DETAILS
 OF
 METER VAULT

ELLICOTT CITY
 SUCKER BRANCH PARALLEL INTERCEPTOR
 PROJECT NO. S-6102
 CONTRACT NO. 10-1305

SCALE
 AS
 SHOWN
 SHEET
 9 OF 10



- CONSTRUCTION SEQUENCE**
SEDIMENT CONTROL PROCEDURES
1. OBTAIN SEDIMENT CONTROL PERMIT (ARTICLE 15.05-3).
 2. OBTAIN WATER RESOURCES ADMINISTRATION PERMIT.
 3. CONSTRUCT CONTINUOUS SILT FENCE ON STREAM SIDE OF PIPE IN ADVANCE OF SEWER CONSTRUCTION.
 4. CONSTRUCT STONE ENTRANCE AND STREAM CROSSINGS IN ADVANCE OF SEWER CONSTRUCTION.
 5. CLEAR, GRUB AND STRIP AS REQUIRED. PROTECT STREAM FROM EROSION OF STORED TOPSOIL. SEPARATE TOPSOIL FROM SUBSOIL.
 6. EXCAVATE FOR AND CONSTRUCT SEWER MAINS.
 7. STOCKPILE EXCAVATED MATERIAL ON HIGH SIDE OF TRENCH.
 8. CONSTRUCT STONE OUTLET SEDIMENT PITS FOR DEWATERING PUMP DISCHARGE.
 9. RESTORE EROSION CONTROL STRUCTURES DISTURBED BY SEWER CONSTRUCTION.
 10. STABILIZE DISTURBED AREAS AS CONSTRUCTION PROGRESSES WITH TEMPORARY SEEDING AND MULCHING (OR PERMANENT RESTORATION).
 11. CONSTRUCT RIP-RAP SLOPE PROTECTION. GABIONS MAY BE SUBSTITUTED FOR RIP-RAP WHERE APPROVED BY THE ENGINEER.
 12. CONSTRUCT RIP-RAP STREAMBED IF AND WHERE DIRECTED BY THE ENGINEER. IN THE EVENT THE EXISTING STREAM BOTTOM IS CONSIDERED BY THE ENGINEER TO BE ERODIBLE IN THOSE AREAS SHOWN AS NON-ERODIBLE ON THE CONTRACT DRAWINGS A SOLID RIP-RAP STREAM BED WITH CUT-OFF-WALL SHALL BE CONSTRUCTED OVER THE PIPE. PAYMENT WILL BE MADE PER SQUARE YARD AT THE UNIT PRICE BID FOR RIP-RAP.
 13. COMPLETE PERMANENT RESTORATION.
 14. REMOVE SEDIMENT STRUCTURES WHEN DIRECTED. ALL SEDIMENT CONTROL DEVICES SHALL REMAIN IN SERVICE WITHIN THE 100 YEAR FLOOD PLAIN UNTIL REMOVAL IS APPROVED BY THE WATER RESOURCES ADMINISTRATION INSPECTOR AND BY THE SOIL CONSERVATION SERVICE INSPECTOR.
 15. BLASTING WITHIN THE STREAMBED WILL NOT BE ALLOWED BY W.R.A. BETWEEN MARCH AND MAY.



DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

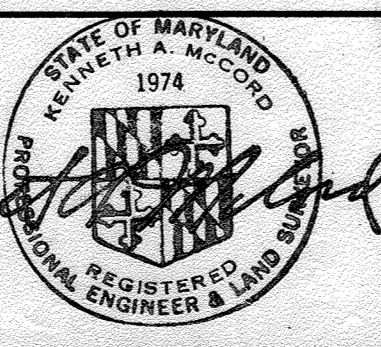
9-1-85

CHIEF - BUREAU OF UTILITIES - DATE

CHIEF - BUREAU OF ENGINEERING - DATE

WHITMAN, REQUARDT
AND ASSOCIATES
ENGINEERS

2315 ST. PAUL ST.
BALTIMORE, MARYLAND



DES:	J.R.K.			
DRN:	G.T.F.			
CHK:	R.B.N.			
DATE:	JRK	1	Revised Rip-Rap Detail & Gabion Stream Bed	10/2/85
BY:	NO.		REVISION	DATE

SEDIMENT CONTROL
DETAILS

60' SCALE MAP NO. _____ BLOCK NO. _____

ELLICOTT CITY
SUCKER BRANCH PARALLEL INTERCEPTOR

PROJECT NO. S-6102
CONTRACT NO. 10-1305

SCALE AS SHOWN

SHEET 10 OF 10