

Reviewed for Howard County Soil Conservation District and meets technical requirements:  
 Approved: *[Signature]* 9/28/82  
 U.S. Soil Conservation Service Date

The plan is approved for erosion & sediment control by the Howard County Soil Conservation District.  
 Approved: *[Signature]* 9/28/82  
 Howard Co. Soil Conservation District Date

HOWARD COUNTY SEWER CODE NO. 644000

**GENERAL NOTES CONT.**

16. During pumping operation, no water will be discharged directly across the ground or into any existing body of water or stream, without first being pumped to an approved temporary sediment trap.
17. Manholes designated W.T. in plan and/or profile shall have watertight frame and covers, Standard Detail G5.52. Where watertight manhole frame and cover is used, set top of frame 1'-6" above finished grade. (See Detail, Sheet # of 11.)
18. All manholes shall be Howard County Standard 4'-0" diameter, unless otherwise indicated on these plans.
19. 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 - Underground Gas & Electric Customer Service - 685-0123
  - Engineering - "Damage Control" - 234-5621
  - "Miss Utility" - 1-559-0100
  - Chesapeake & Potomac (C&P) Telephone Company - 725-9976
  - American Telephone and Telegraph - Cable Location Division - 393-3553
  - Colonial Pipeline Company - 781-4641
  - Bureau of Utilities Howard County - 992-2366
20. All excess material shall be disposed offsite, at a location provided by the Contractor, and at the Contractor's expense. All disposal sites must have a sediment control plan approved by the Howard Soil Conservation District.

**CAPITAL PROJECT A-0-6070**  
**CONTRACT NO. 30-1002**

**MIDDLE PATUXENT INTERCEPTOR**  
**STATE ROUTE 32 TO**  
**HOBBITS GLEN PUMPING STATION**  
**HOWARD COUNTY MARYLAND**

**DEPARTMENT OF PUBLIC WORKS**

**GENERAL NOTES**

1. The existing utilities and obstructions shown are from the best available records and shall be verified by the contractor to his own satisfaction before construction. The Howard County Department of Public Works or the owners do not warrant or guarantee the completeness or the correctness of the information given.
2. The contractor shall take all necessary precautions to protect existing utilities and to maintain uninterrupted service. Any damage incurred shall be repaired immediately to the satisfaction of the engineer at the contractor's expense.
3. The contractor shall locate existing utilities a minimum of two weeks in advance of construction operations in vicinity of proposed utilities and at his own expense.
4. 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.
5. Clear all utilities by minimum of 6". Clear all poles by 2'-0" minimum, or tunnel as required. Cost for tunneling or bracing at poles shall be included in the unit price bid for sewer construction.
6. All pipe elevations shown are invert elevations, unless otherwise noted.
7. No excavated trench material shall be stockpiled on the stream side of the sewer.
8. The contractor shall provide a pipe joint in each sewer main within 2'-0" of the exterior manhole walls.
9. For details not shown on the contract drawings see Howard County Standard Details.
10. Contractor shall remove trees, stumps, and roots along line of excavation as directed by the Engineer. Payment for such removal shall be included in the unit price bid for construction of sewer mains.
11. All horizontal controls are based on Maryland State Coordinates.
12. All vertical controls are based on U.S.G.S. Datum.
13. For materials and construction methods use Howard County Standard Specifications.
14. The contractor shall be responsible for repairing or replacing any existing fences, driveways, etc. damaged or removed during construction.
15. All manholes having a depth of 18 ft. or greater shall be constructed with an intermediate landing as shown on Howard County Standard Detail G-5.15.

"I certify that all development and construction will be done according to this plan, and that any responsible personnel involved in the construction project will have a Certificate of Attendance at a Department of Natural Resources Approved Training Program for the Control of Sediment and Erosion before beginning the project."  
 George F. Naimyer, Director  
 Date: 9/28/82

"I certify that this plan for erosion and sediment control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard Soil Conservation District."  
 Steven G. Zahn  
 Date: 9/28/82



LIST OF MATERIALS			
ITEM	BID QUANTITY	AS BUILT QUANTITY	MATERIAL/SUPPLIER
21" SEWER	2562 LF.		
24" SEWER	8888 LF.		
18" SEWER	3 LF.		
14" SEWER	3 LF.		
12" SEWER	741 LF.		
10" SEWER	821 LF.		
8" SEWER	10 LF.		
MANHOLE	760	VF.	

APPROX BORING LOCATION  
 MIDDLE PATUXENT INTERCEPTOR  
 STATE ROUTE 32 TO  
 HOBBITS GLEN PUMPING STATION  
 CAPITAL PROJECT A-0-6070  
 CONTRACT NO. 30-1002

**DEPARTMENT OF PUBLIC WORKS**  
 HOWARD COUNTY, MARYLAND

Director of Public Works: *[Signature]* 9/28/82  
 Chief Bureau of Engineering: *[Signature]* 9-27-81  
 Chief Bureau of Utilities: *[Signature]* 9/28/82

**DEWBERRY & DAVIS**  
 ENGINEERING - ARCHITECTS - PLANNERS - SURVEYORS  
 2594 Riva Road, Annapolis, Maryland 21401 (301) 841-6811

CONTRACT NO. 30-1002  
 CAPITAL PROJECT NO. A-0-6070

LOCATION MAP  
 OF SANITARY SEWERS

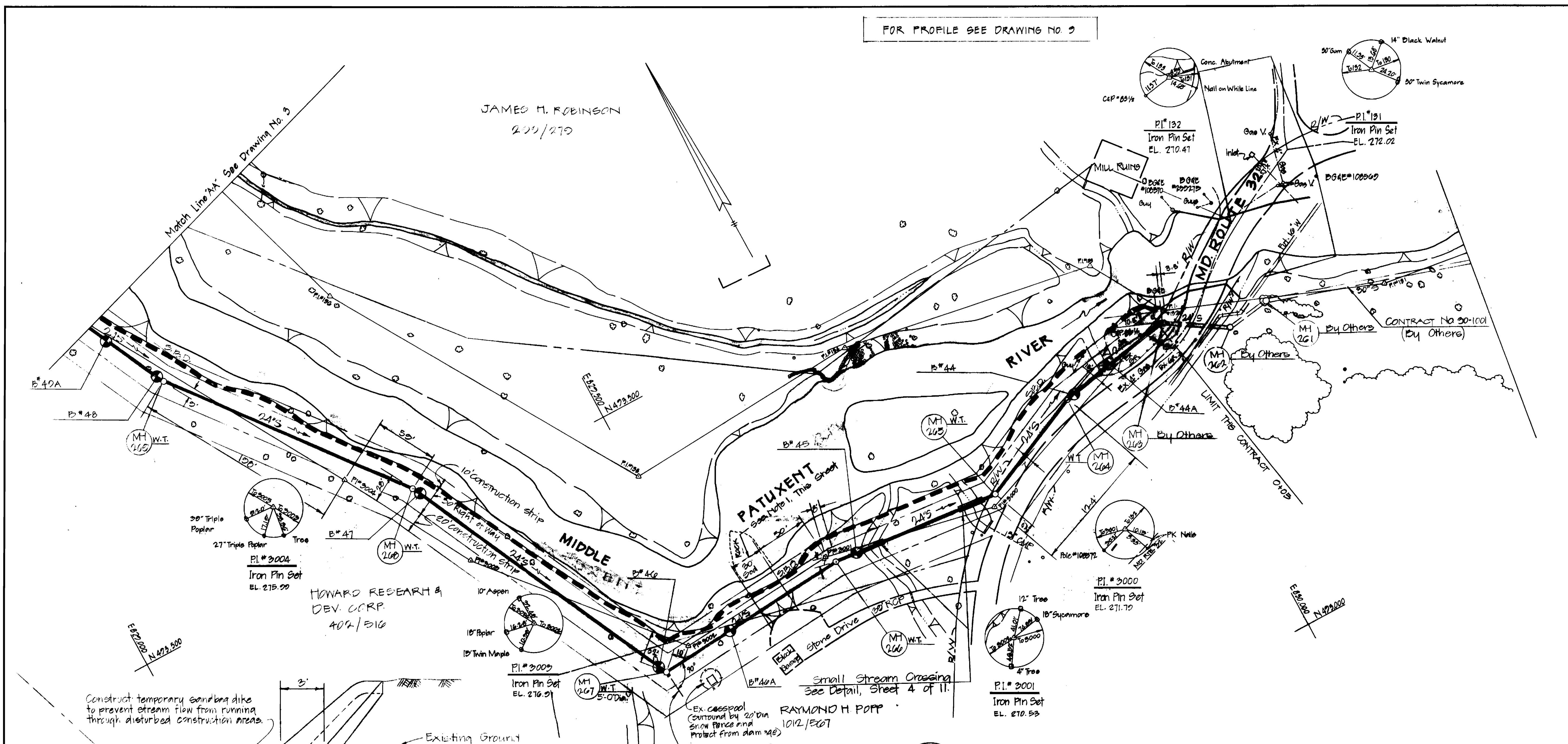
MIDDLE PATUXENT INTERCEPTOR  
 ELECTION DISTRICT NO. 5  
 HOWARD COUNTY, MARYLAND

**DRAWING NO. 1 OF 11**  
 SCALE AS SHOWN  
 DESIGNED: SZ  
 DRAFTED: BS  
 CHECKED: SZ

AS-BUILTS

FOR PROFILE SEE DRAWING NO. 3

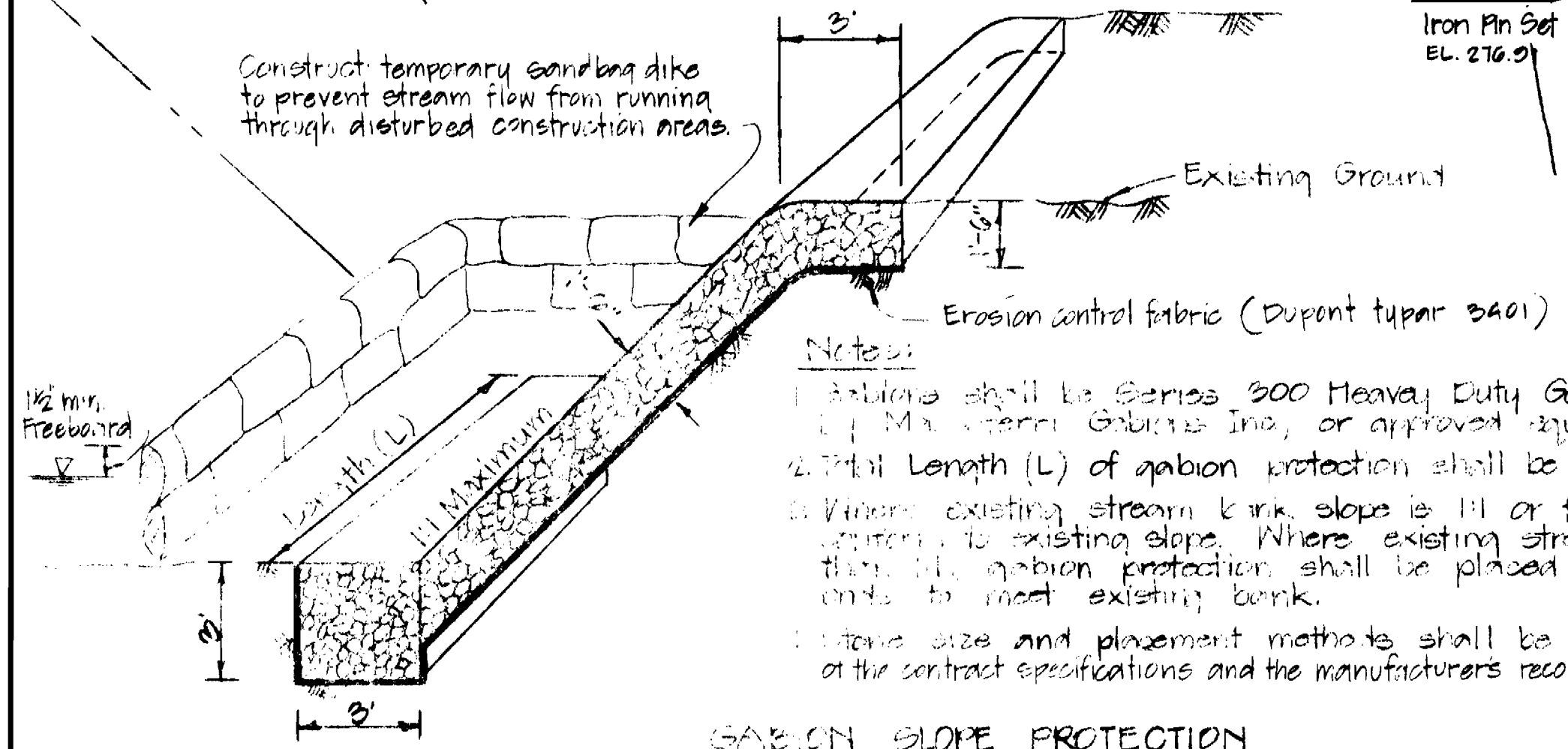
JAMES M. ROBINSON  
200/270



Construct temporary sandbag dike to prevent stream flow from running through disturbed construction areas.

HOWARD RESEARCH & DEV. CORP.  
404/BIG

RAYMOND H POPP  
10/2/ECOT



**Notes:**  
 1. Gabions shall be Series 300 Heavy Duty Galvanized Gabions as manufactured by M. J. Steel Gabions Inc., or approved equal.  
 2. Total Length (L) of gabion protection shall be as indicated on the plans.  
 3. Where existing stream bank slope is 1:1 or flatter, gabion protection shall conform to existing slope. Where existing stream bank slope is steeper than 1:1, gabion protection shall be placed at 1:1, and transition made at ends to meet existing bank.  
 4. Stone size and placement methods shall be in accordance with the special provisions of the contract specifications and the manufacturers recommended specifications.

GABION SLOPE PROTECTION  
No Scale

PLAN  
SCALE: 1"=50'

SEQUENCE OF OPERATIONS

1. INSTALL STREAM PROTECTION STRUCTURES SHOWN ON THE PLANS.
2. EXCAVATE AND INSTALL SEWER PIPE AND MANHOLES AS SHOWN ON THE PLANS.
3. REINFORCE WITH APPROPRIATE PERMISSIBLE MATERIALS.
4. REMOVE STREAM PROTECTION STRUCTURES SHOWN ON THE PLANS.
5. REPAIR AND RESTORE EXISTING STREAM, REMOVE TEMPORARY STRUCTURES AND RESTORE TO ORIGINAL CONDITION.

Note #1: Place and maintain split soil within the limits shown on the plans. Side slope on south side of sewer shall be returned to existing grade following sewer construction, and split placed from top of slope to toe of split, spread mulch all other disturbed areas.



*Handwritten signature*

Key	Date	Remarks

MIDDLE PATUXENT INTERCEPTOR  
MD RTE. 20 TO HOBBITS GLEN P.S.  
CAPITAL PROJECT A-O-6070  
CONTRACT NO. 30-1002

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND

*James J. Quinn* Director of Public Works  
*Allen S. Brown* Chief Bureau of Engineering  
*Allen S. Brown* Chief Bureau of Utilities

DATE: 9/21/82

DEWBERRY & DAVIS  
ENGINEERING - ARCHITECTS - PLANNERS - SURVEYORS  
2804 Riva Road, Annapolis, Maryland 21401 (301) 841-6811

CONTRACT NO. 30-1002  
CAPITAL PROJECT NO. A-O-6070

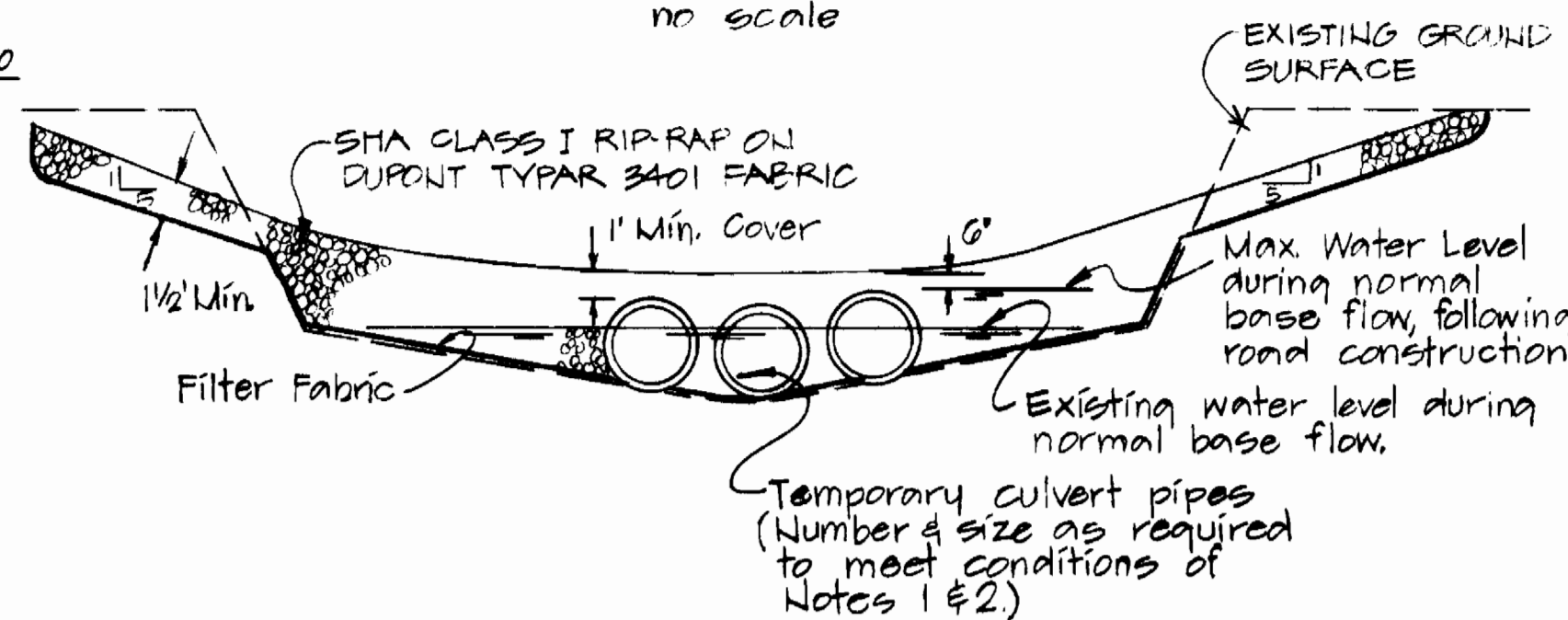
PLAN  
OF SANITARY SEWERS

MIDDLE PATUXENT INTERCEPTOR  
ELECTION DISTRICT NO. 5  
HOWARD COUNTY, MARYLAND

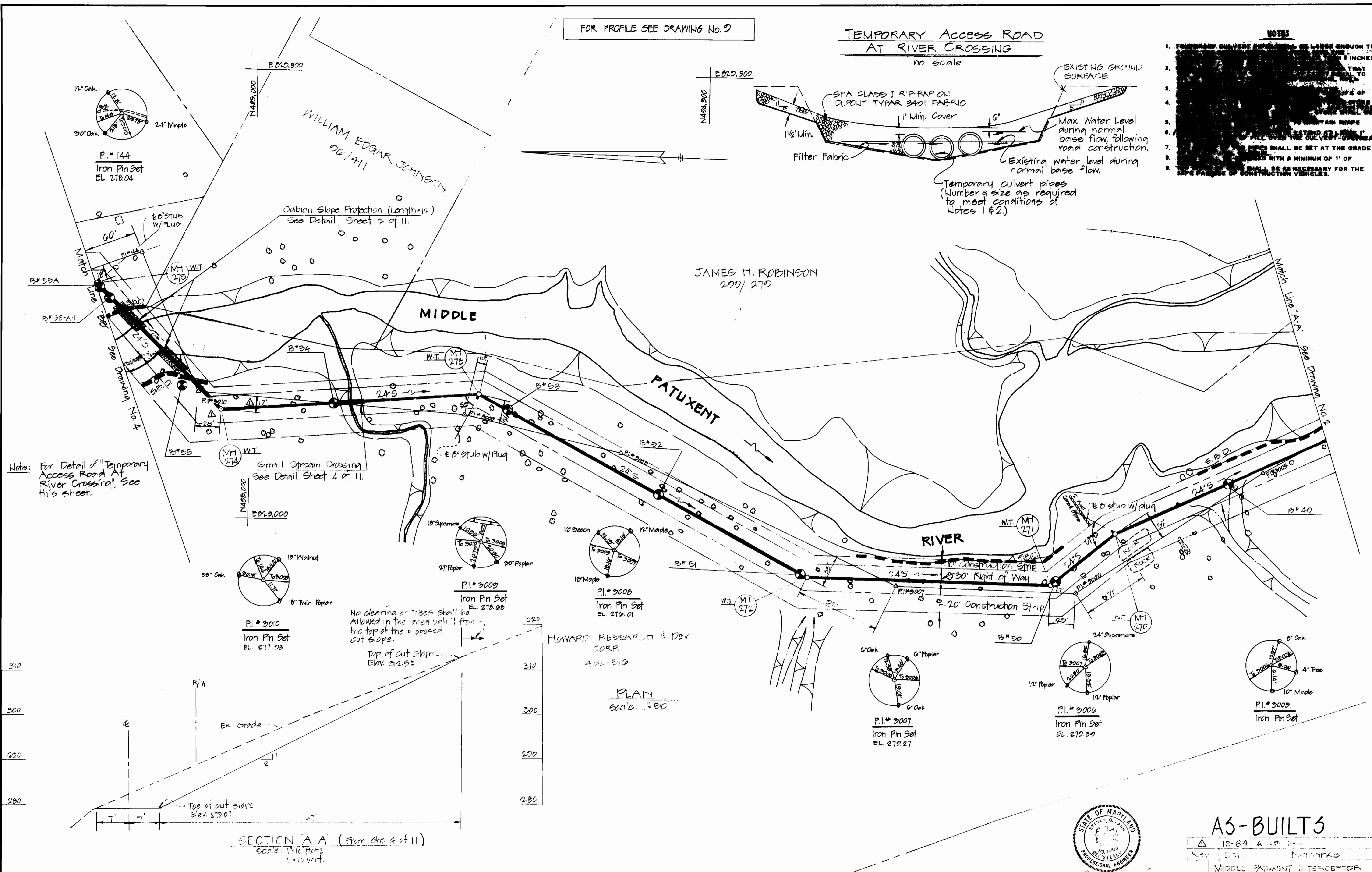
DRAWING NO. 2 OF 11	SCALE AS SHOWN	DESIGNED SZ	DRAFTED BS	CHECKED SZ
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FOR PROFILE SEE DRAWING No. 9

**TEMPORARY ACCESS ROAD AT RIVER CROSSING**  
no scale



- NOTES**
1. TEMPORARY CULVERTS SHALL BE LARGE ENOUGH TO ACCOMMODATE THE MAXIMUM FLOOD FLOW OF THE RIVER.
  2. TEMPORARY CULVERTS SHALL BE SET AT THE GRADE OF THE EXISTING GROUND SURFACE WITH A MINIMUM OF 1' OF COVER.
  3. TEMPORARY CULVERTS SHALL BE SET AT THE GRADE OF THE EXISTING GROUND SURFACE WITH A MINIMUM OF 1' OF COVER.
  4. TEMPORARY CULVERTS SHALL BE SET AT THE GRADE OF THE EXISTING GROUND SURFACE WITH A MINIMUM OF 1' OF COVER.
  5. TEMPORARY CULVERTS SHALL BE SET AT THE GRADE OF THE EXISTING GROUND SURFACE WITH A MINIMUM OF 1' OF COVER.
  6. TEMPORARY CULVERTS SHALL BE SET AT THE GRADE OF THE EXISTING GROUND SURFACE WITH A MINIMUM OF 1' OF COVER.
  7. TEMPORARY CULVERTS SHALL BE SET AT THE GRADE OF THE EXISTING GROUND SURFACE WITH A MINIMUM OF 1' OF COVER.
  8. TEMPORARY CULVERTS SHALL BE SET AT THE GRADE OF THE EXISTING GROUND SURFACE WITH A MINIMUM OF 1' OF COVER.
  9. TEMPORARY CULVERTS SHALL BE SET AT THE GRADE OF THE EXISTING GROUND SURFACE WITH A MINIMUM OF 1' OF COVER.



No clearing of trees shall be allowed in the area uphill from the top of the proposed cut slope.

Top of cut slope Elev. 272.5'

**SECTION A-A (From Stit 4 of 11)**  
Scale: 1" = 10' Horiz  
1" = 10' Vert



**AS-BUILT'S**

12-84  
MIDDLE PATUXENT INTERCEPTOR  
ELECTION DISTRICT NO. 5  
CAPITAL PROJECT A-0-6070  
CONTRACT NO. 30-1002

**DEPARTMENT OF PUBLIC WORKS**  
HOWARD COUNTY, MARYLAND

*Samuel L. Lewis* 9/2/82  
DIRECTOR OF PUBLIC WORKS DATE CHIEF BUREAU OF ENGINEERING DATE

*Allen J. Brown* 9/2/82  
CHIEF BUREAU OF UTILITIES DATE CHIEF UTILITY DIVISION DATE

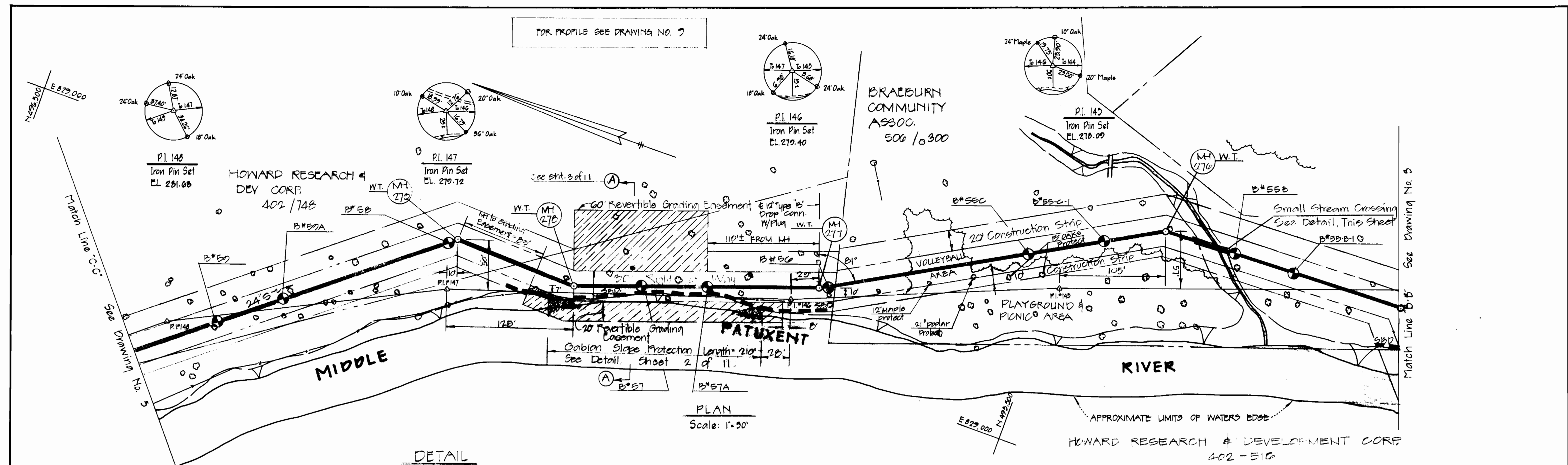
**DEWBERRY & DAVIS**  
ENGINEERING - ARCHITECTS - PLANNERS - SURVEYORS  
2594 Riva Road, Annapolis, Maryland 21401 (301) 841-6811

CONTRACT NO. 30-1002  
CAPITAL PROJECT NO. A-0-6070

PLAN  
OF SANITARY SEWERS

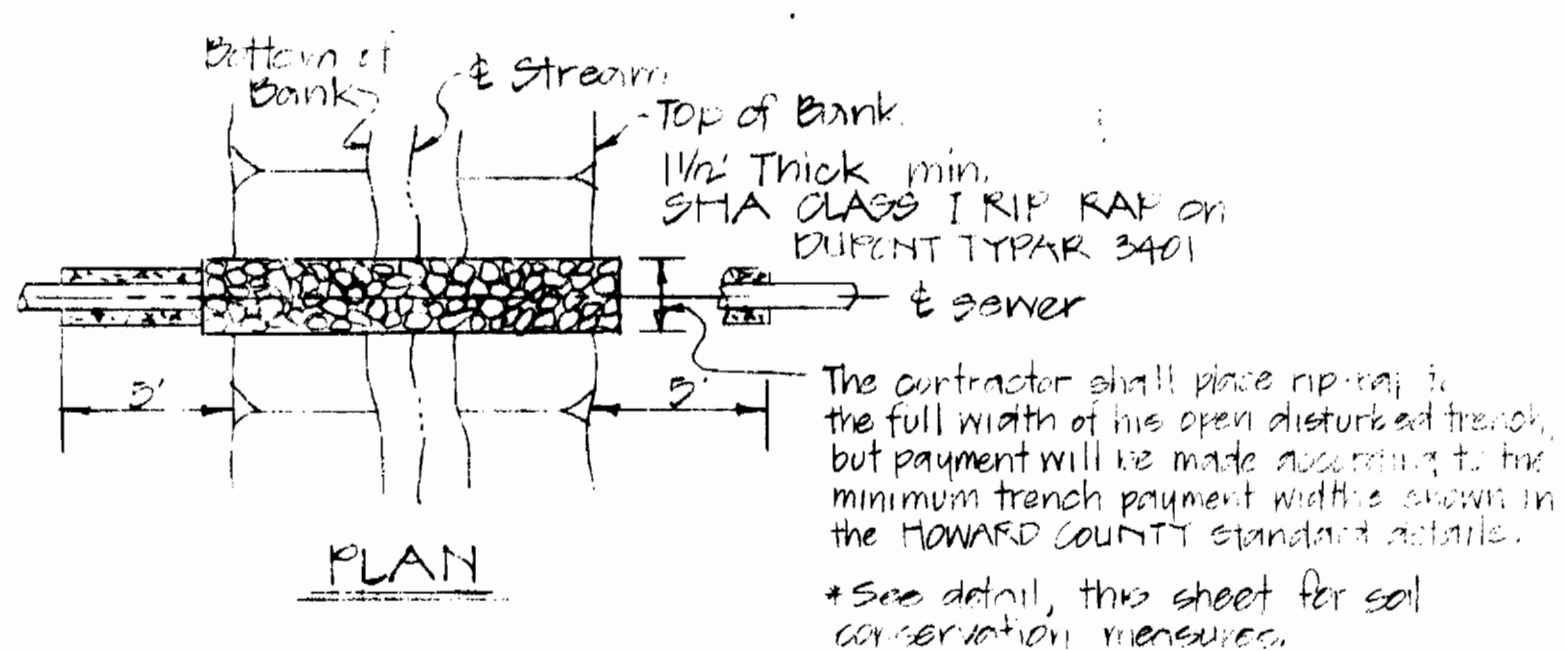
MIDDLE PATUXENT INTERCEPTOR  
ELECTION DISTRICT NO. 5  
HOWARD COUNTY, MARYLAND

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				<b>DRAFTED</b>	BS
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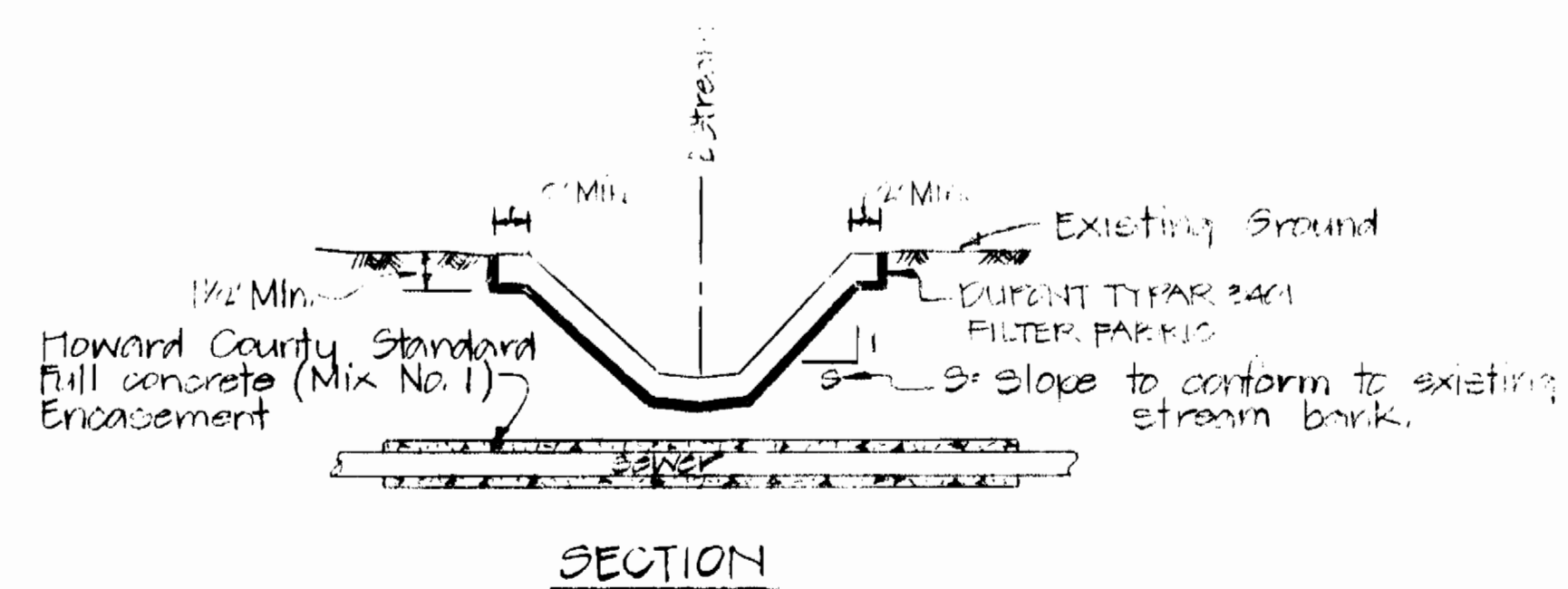


PLAN  
Scale: 1"=50'

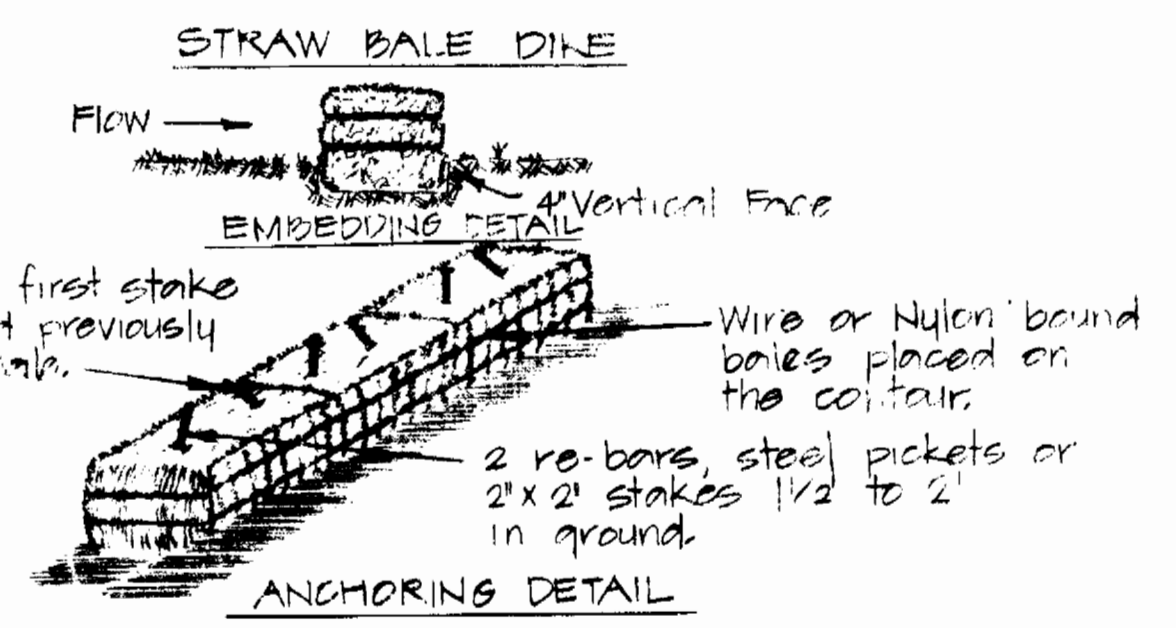
DETAIL  
SMALL STREAM CROSSING\*  
NO SCALE



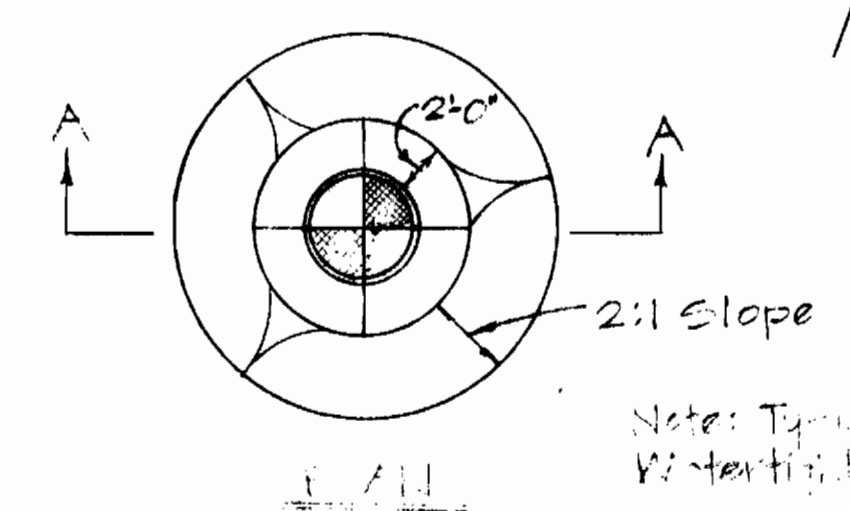
PLAN



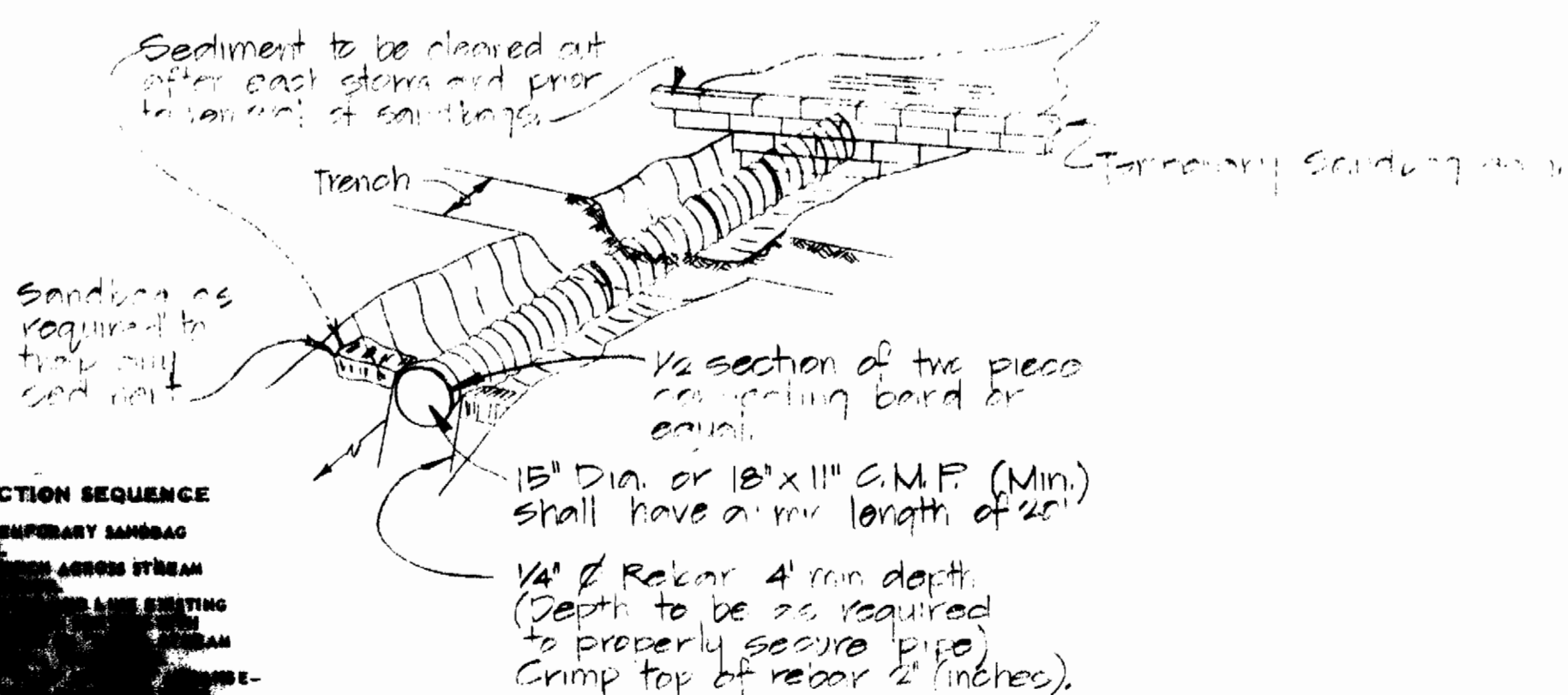
SECTION



- CONSTRUCTION SPECIFICATIONS
1. THE STRAW BALE DIKE SHALL BE CONSTRUCTED AS SHOWN ON THIS SHEET.
  2. THE DIKE SHALL BE 2' HIGH AND 2' WIDE AT THE TOP.
  3. THE DIKE SHALL BE 2' WIDE AT THE BOTTOM.
  4. THE DIKE SHALL BE CONSTRUCTED ON A 2:1 SLOPE.
  5. ALL SOIL TO BE EXPOSED SHALL BE PROTECTED WITH EROSION CONTROL MEASURES.
- STANDARD SYMBOLS
- \*DRAINAGE AREA LESS THAN 1 ACRE.



Notes: Typical of all W.T. Manholes



- CONSTRUCTION SEQUENCE
1. REMOVE EXISTING SANDS
  2. PLACE SANDS ACROSS STREAM
  3. PLACE LINE EXISTING SANDS
  4. PLACE SANDS

SOIL CONSERVATION MEASURES AT SMALL STREAM CROSSINGS  
No Scale



Rev.	Date	Remarks

MIDDLE PATUXENT INTERCEPTOR  
MID. RTE. 92 TO HOPKINS GLEN P.S.  
CAPITAL PROJECT A-0-6070  
CONTRACT NO. 30-1002

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY MARYLAND

*Robert M. Bevinger* 9/27/82  
DIRECTOR OF PUBLIC WORKS DATE

*Allen S. Brown* 9/21/82  
CHIEF BUREAU OF UTILITIES DATE

DEWBERRY & DAVIS  
ENGINEERING - ARCHITECTS - PLANNERS - SURVEYORS  
2594 Riva Road, Annapolis, Maryland 21401 (301) 841-6811

CONTRACT NO. 30-1002  
CAPITAL PROJECT NO. A-0-6070

PLAN  
OF SANITARY SEWERS

MIDDLE PATUXENT INTERCEPTOR  
ELECTION DISTRICT NO. 5  
HOWARD COUNTY, MARYLAND

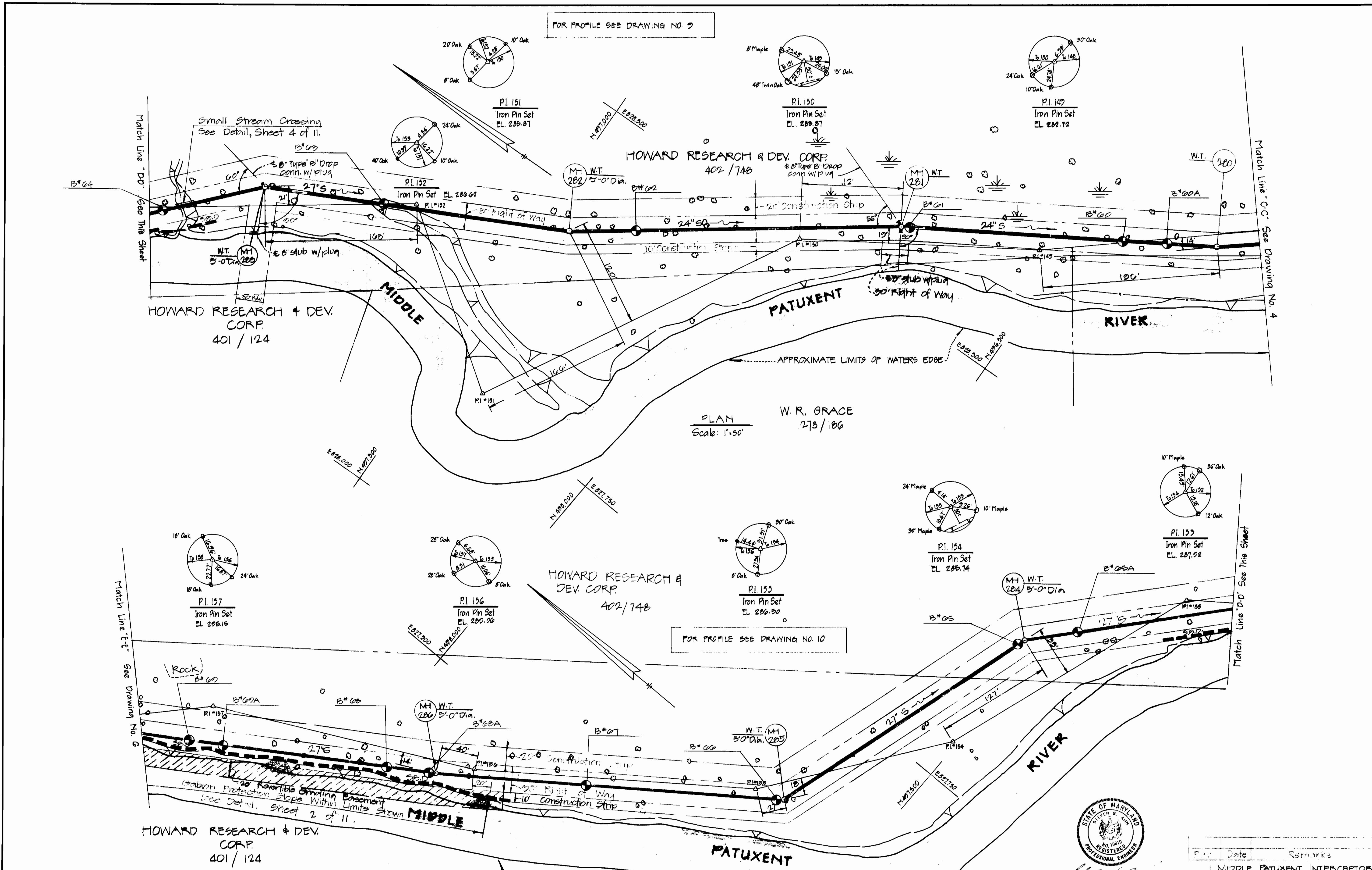
DRAWING NO. 4 OF 11  
SCALE AS SHOWN

DESIGNED SZ
DRAFTED BS
CHECKED SZ

FOR PROFILE SEE DRAWING NO. 9

FOR PROFILE SEE DRAWING NO. 10

PLAN  
Scale: 1"=50'



Date	Remarks

MIDDLE PATUXENT INTERCEPTOR  
MD. RTE. 32 TO HOBBITS GLEN P.S.  
CAPITAL PROJECT A-O-6070  
CONTRACT NO. 30-1002

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND

*James McLean* 9/28/82  
DIRECTOR OF PUBLIC WORKS DATE

*Allen S. Brown* 9/21/82  
DATE CHIEF BUREAU OF ENGINEERING

*Robert M. Brown* 9-27-82  
DATE CHIEF UTILITY DIVISION

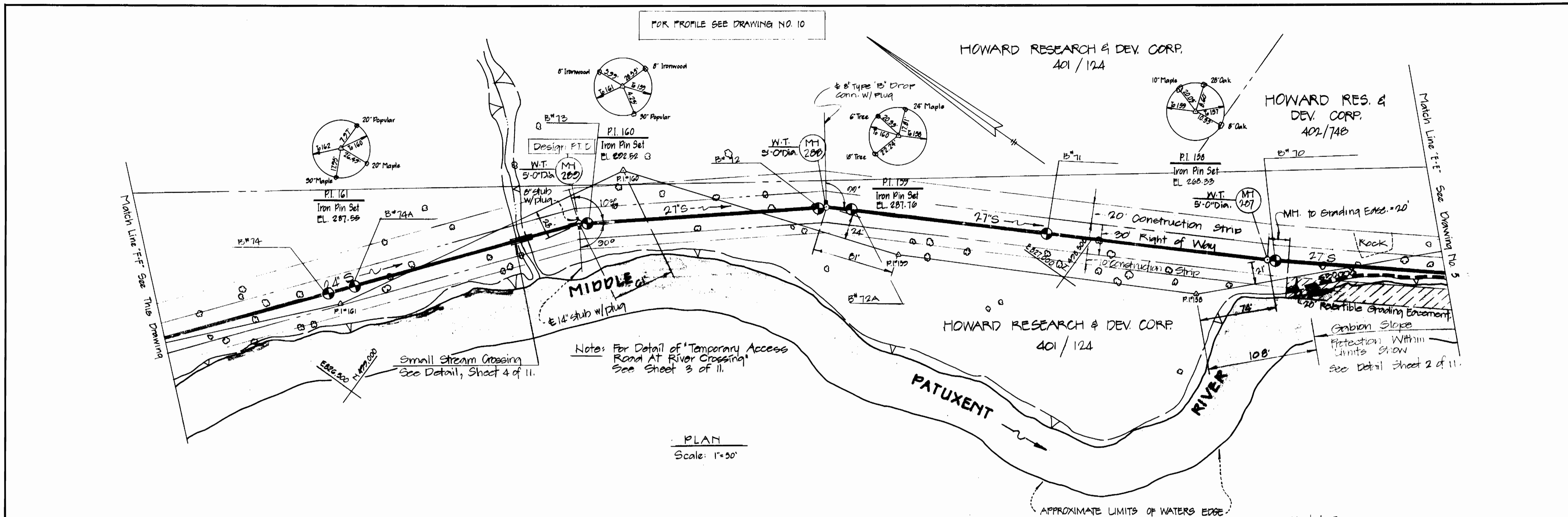
DEWBERRY & DAVIS  
ENGINEERING - ARCHITECTS - PLANNERS - SURVEYORS  
2594 Riva Road, Annapolis, Maryland 21401 (301) 841-8811

CONTRACT NO. 30-1002  
CAPITAL PROJECT NO. A-O-6070

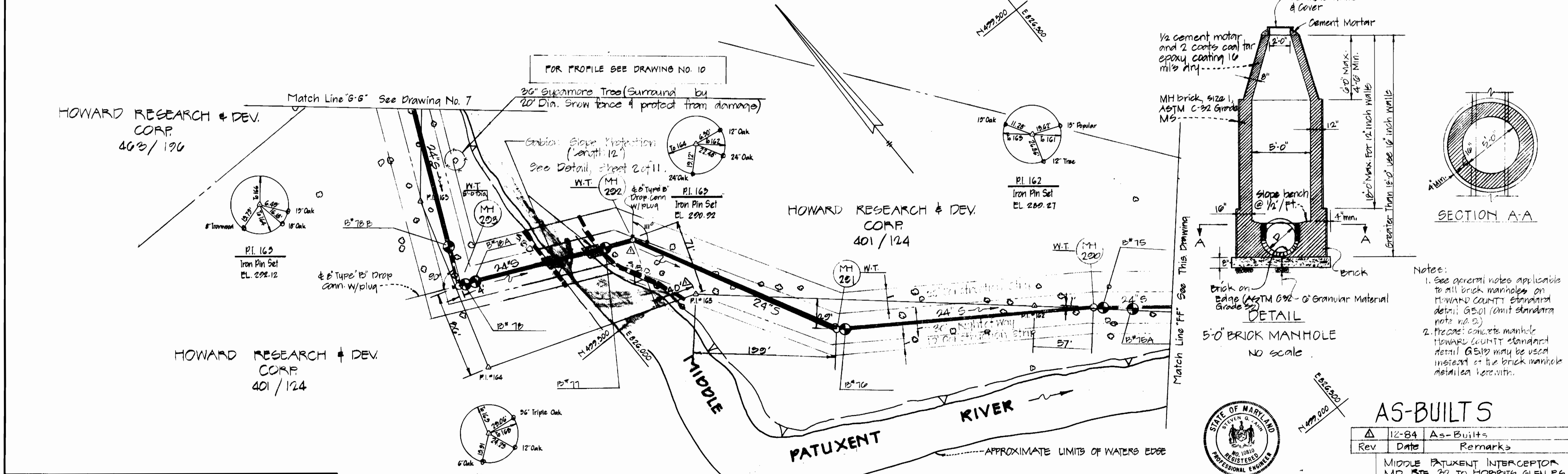
PLAN  
OF SANITARY SEWERS

MIDDLE PATUXENT INTERCEPTOR  
ELECTION DISTRICT NO. 5  
HOWARD COUNTY, MARYLAND

DRAWING NO. OF	SCALE AS SHOWN	DESIGNED SZ	DRAFTED BS	CHECKED SZ
5	11			



PLAN  
Scale: 1"=50'



DETAIL  
5'0" BRICK MANHOLE  
NO SCALE

SECTION A-A

- Notes:
1. See general notes applicable to all brick manholes on HOWARD COUNTY standard detail G5.01 (omit standard note no. 3).
  2. Precast concrete manhole HOWARD COUNTY standard detail G5.12 may be used instead of the brick manhole detailed here-with.

AS-BUILTS

Rev	Date	As-Built	Remarks
Δ 12-84		As-Built	

MIDDLE PATUXENT INTERCEPTOR  
MD Rte. 32 TO HOBBS GLEN P.S.  
CAPITAL PROJECT A-0-6070  
CONTRACT NO. 30-1002



DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND

*James M. Lewis* 9/28/82 *Allen S. Brown* 9/21/82  
DIRECTOR OF PUBLIC WORKS DATE CHIEF BUREAU OF ENGINEERING DATE  
*Robert M. Bennett* 9-27-82 *Allen S. Brown* 9/21/82  
CHIEF BUREAU OF UTILITIES DATE CHIEF UTILITY DIVISION DATE

DEWBERRY & DAVIS  
ENGINEERING - ARCHITECTS - PLANNERS - SURVEYORS  
2994 Riva Road, Annapolis, Maryland 21401 (301) 841-6811

CONTRACT NO. 30-1002  
CAPITAL PROJECT NO. A-0-6070

PLAN  
OF SANITARY SEWERS

MIDDLE PATUXENT INTERCEPTOR  
ELECTION DISTRICT NO. 5  
HOWARD COUNTY, MARYLAND

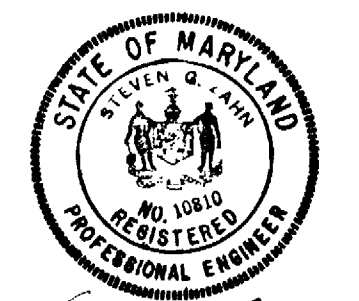
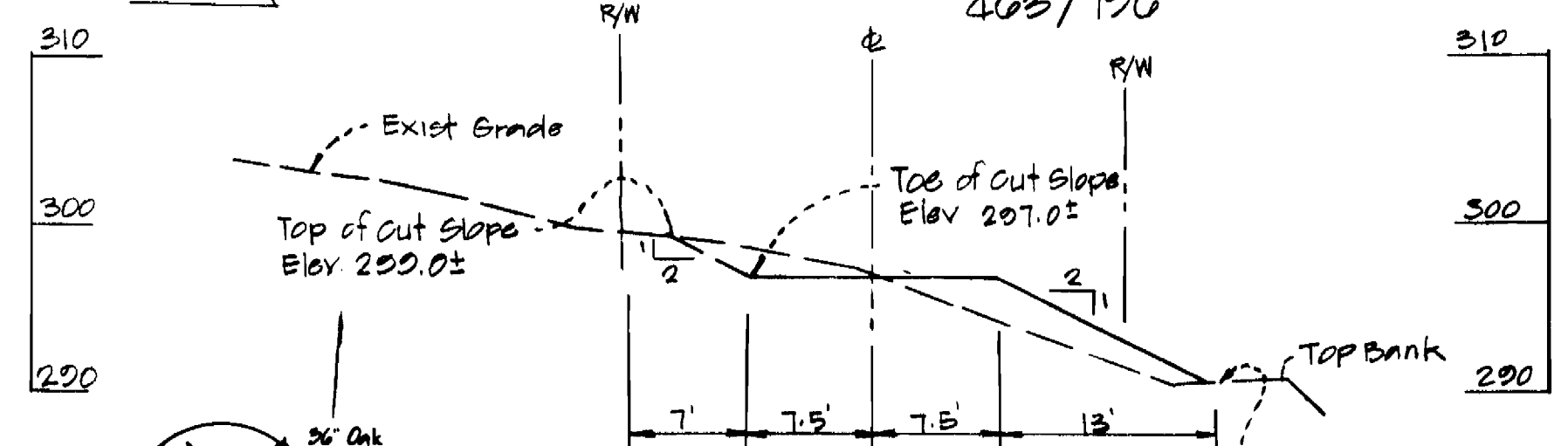
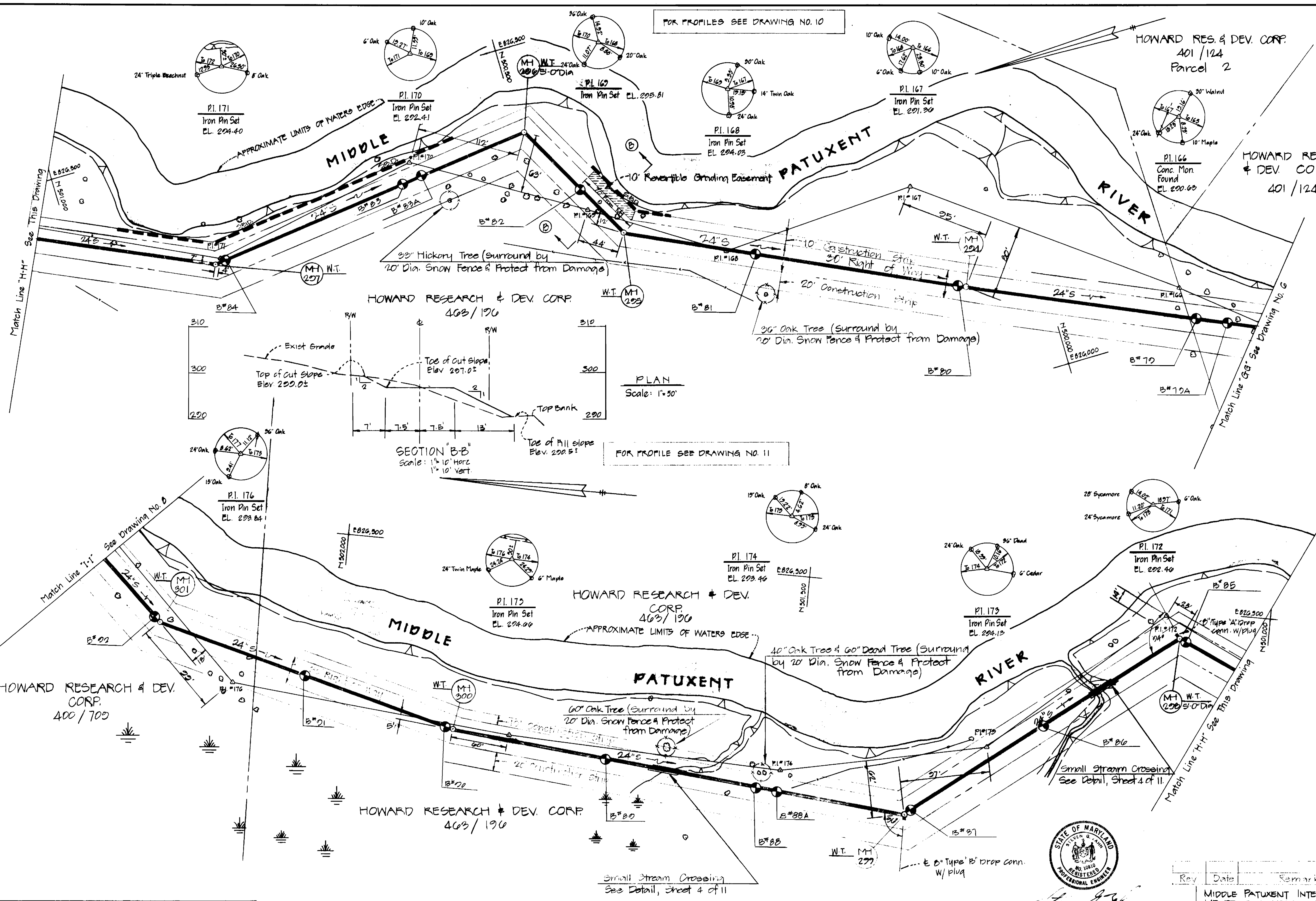
DRAWING NO. 6 OF 11  
SCALE AS SHOWN  
DESIGNED BY  
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CHECKED BY

FOR PROFILES SEE DRAWING NO. 10

FOR PROFILE SEE DRAWING NO. 11

PLAN  
Scale: 1"=50'

SECTION "B-B"  
Scale: 1"=10' Horiz  
1"=10' Vert



Rev	Date	Remarks

MIDDLE PATUXENT INTERCEPTOR  
MD RTE. 32 TO HOBBITS GLEN P.S.  
CAPITAL PROJECT A-O-6070  
CONTRACT NO. 30-1002

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND

*Allen S. Brown* 9/21/82  
DIRECTOR OF PUBLIC WORKS DATE CHIEF BUREAU OF ENGINEERING DATE

*Allen S. Brown* 9/21/82  
CHIEF BUREAU OF UTILITIES DATE CHIEF UTILITY DIVISION DATE

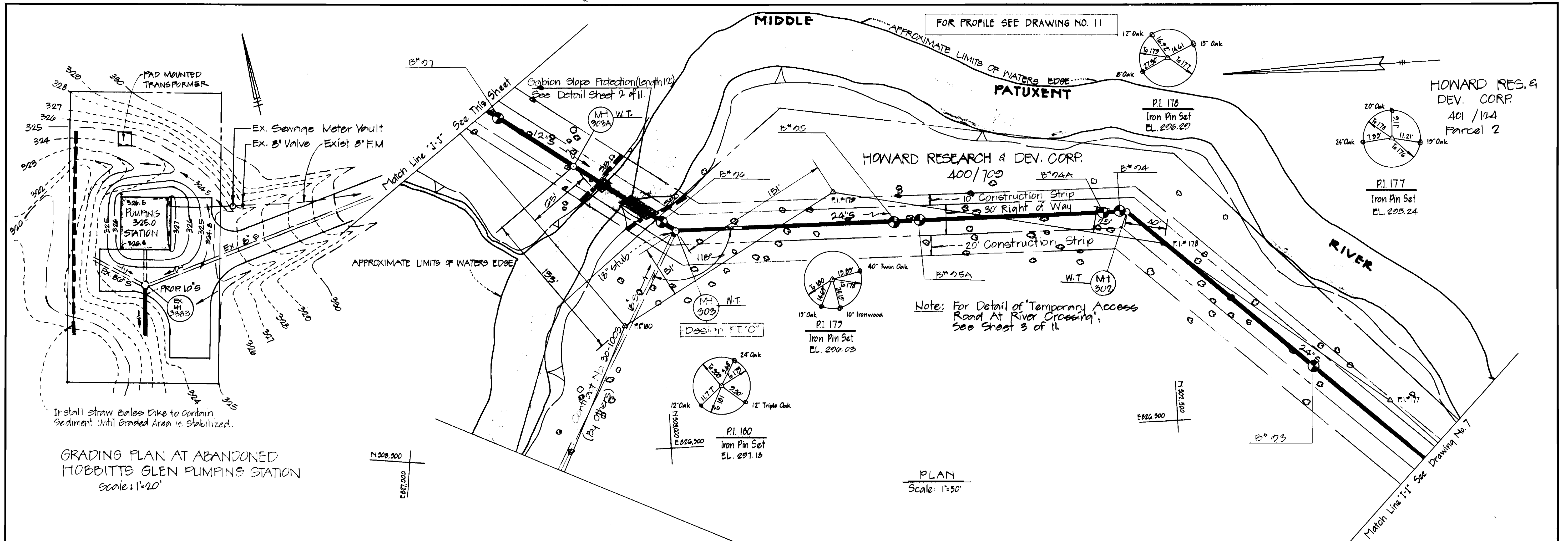
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2594 Riva Road, Annapolis, Maryland 21401 (301) 841-8811

CONTRACT NO. 30-1002  
CAPITAL PROJECT NO. A-O-6070

PLAN  
OF SANITARY SEWERS

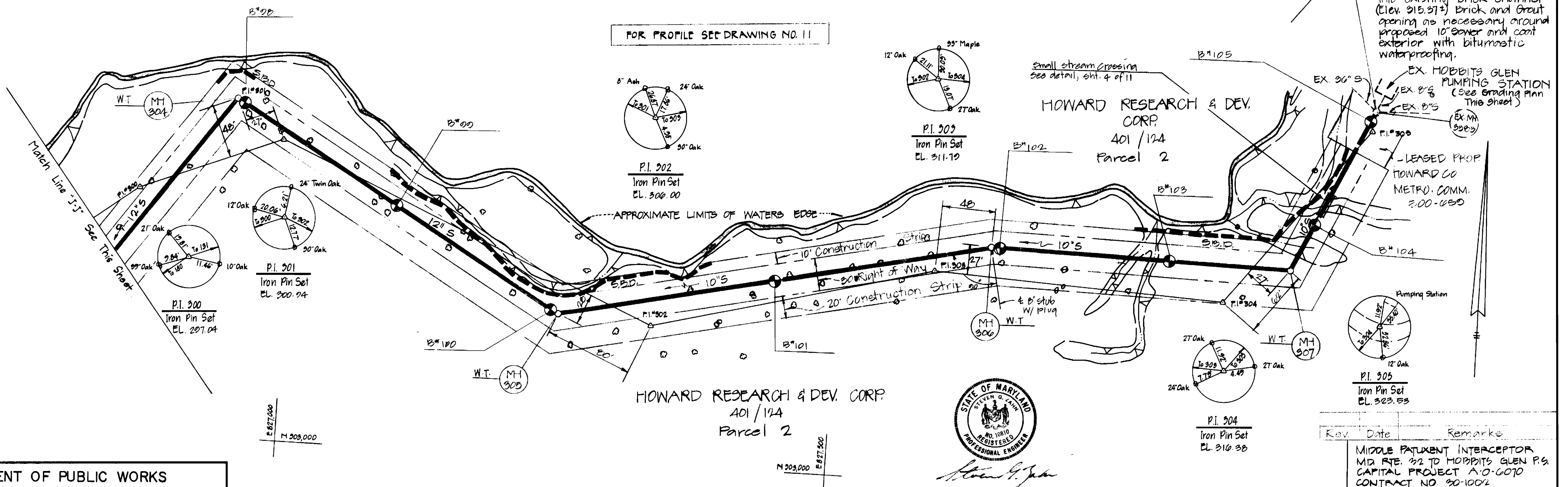
MIDDLE PATUXENT INTERCEPTOR  
ELECTION DISTRICT NO. 5  
HOWARD COUNTY, MARYLAND

DRAWING NO. 7 OF 11  
SCALE AS SHOWN  
DESIGNED SZ  
DRAFTED BS  
CHECKED SZ



GRADING PLAN AT ABANDONED HOBBITS GLEN PUMPING STATION  
Scale: 1"=20'

PLAN  
Scale: 1"=50'



FOR PROFILE SEE DRAWING NO. 11



DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND

*James M. Brown* 4/2/82  
DIRECTOR OF PUBLIC WORKS DATE

*Allen S. Brown* 9/24/82  
CHIEF BUREAU OF ENGINEERING DATE

*Allen S. Brown* 9/24/82  
CHIEF BUREAU OF UTILITIES DATE

DEWBERRY & DAVIS  
ENGINEERING - ARCHITECTS - PLANNERS - SURVEYORS  
2594 Riva Road, Annapolis, Maryland 21401 (301) 841-6811

CONTRACT NO. 30-1002  
CAPITAL PROJECT NO. A-O-6070

PLAN  
OF SANITARY SEWERS

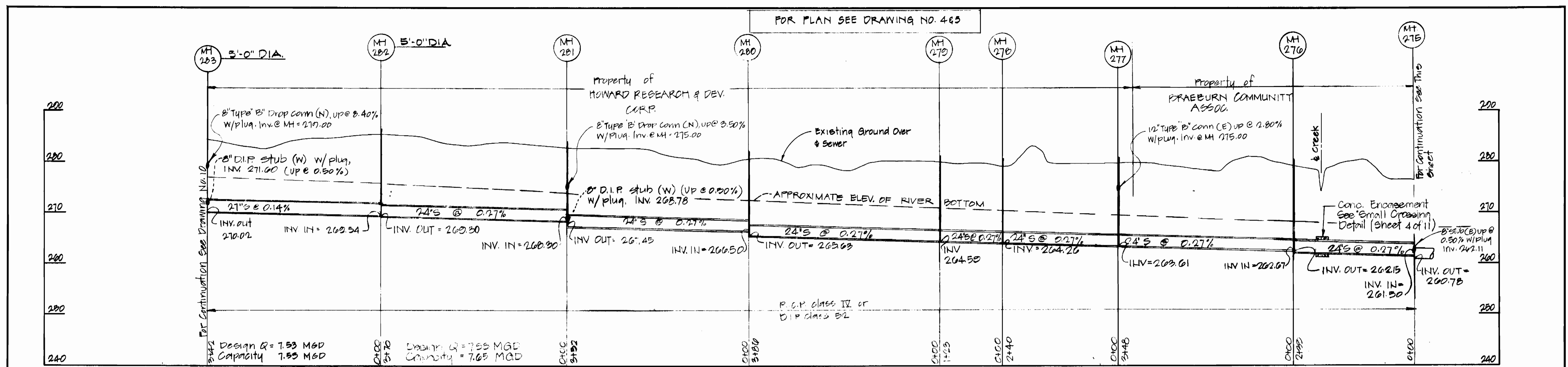
MIDDLE PATUXENT INTERCEPTOR  
ELECTION DISTRICT NO. 5  
HOWARD COUNTY, MARYLAND

DRAWING NO. OF 8-11	SCALE AS SHOWN	DESIGNED SZ	DRAFTED BS	CHECKED SZ
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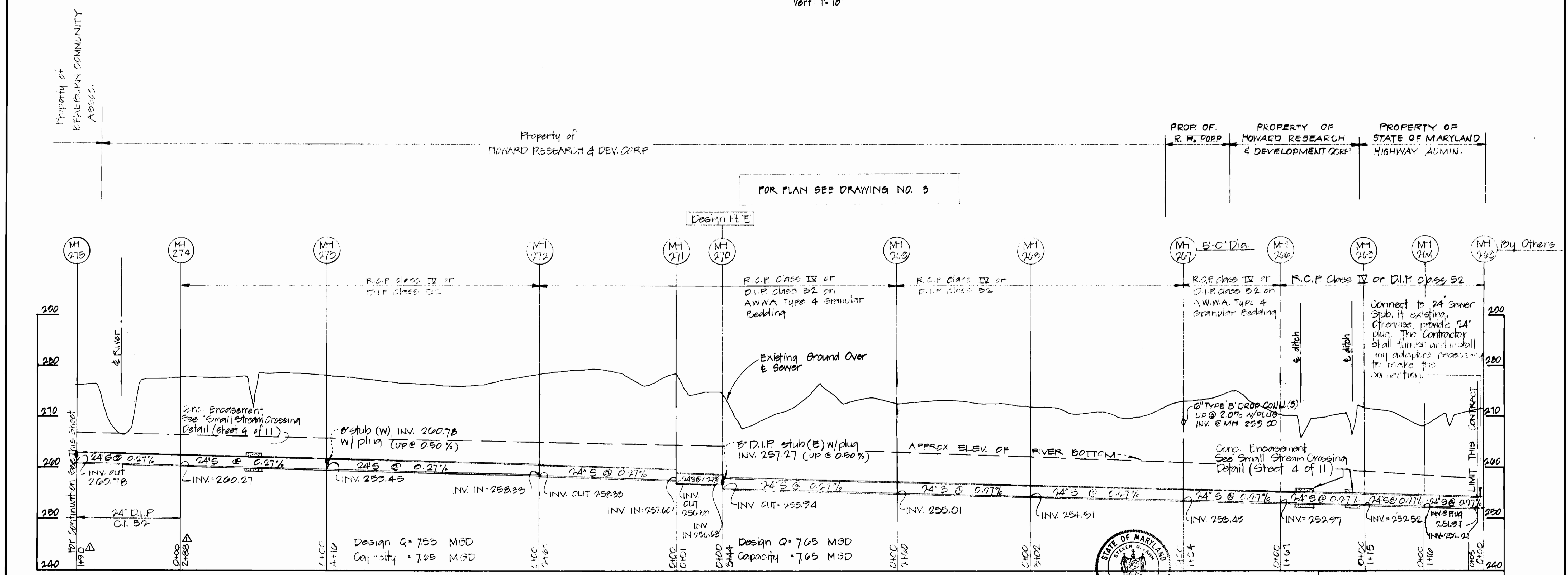
Rev. Date Remarks

MIDDLE PATUXENT INTERCEPTOR  
MID. RTE. 32 TO HOBBITS GLEN P.S.  
CAPITAL PROJECT A-O-6070  
CONTRACT NO. 30-1002





PROFILE  
Horiz: 1" = 100'  
Vert: 1" = 10'



PROFILE  
Horiz: 1" = 100'  
Vert: 1" = 10'

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND

Director of Public Works: *Allen J. Brown* 9/21/82  
Chief Bureau of Engineering: *Allen J. Brown* 9/21/82  
Chief Bureau of Utilities: *Allen J. Brown* 9/21/82

AS-BUILTS

Rev.	Date	As-Builts	Remarks
12-84			

DEWBERRY & DAVIS  
ENGINEERING - ARCHITECTS - PLANNERS - SURVEYORS  
2594 Riva Road, Annapolis, Maryland 21401 (301) 841-6811

CONTRACT NO. 30-1002  
CAPITAL PROJECT NO. A-0-6070

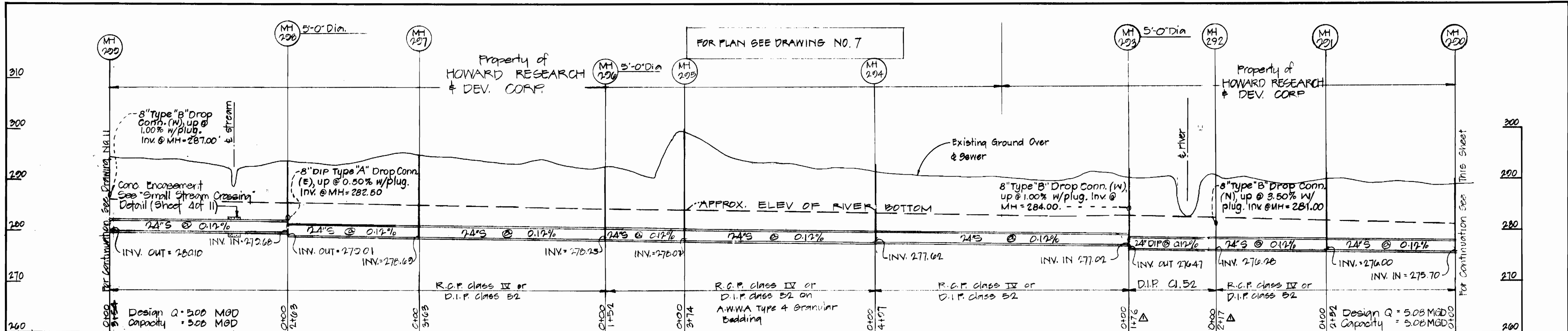
PROFILE OF SANITARY SEWERS

MIDDLE PATUXENT INTERCEPTOR  
ELECTION DISTRICT NO. 5  
HOWARD COUNTY, MARYLAND

DRAWING NO. 9 OF 11  
SCALE AS SHOWN

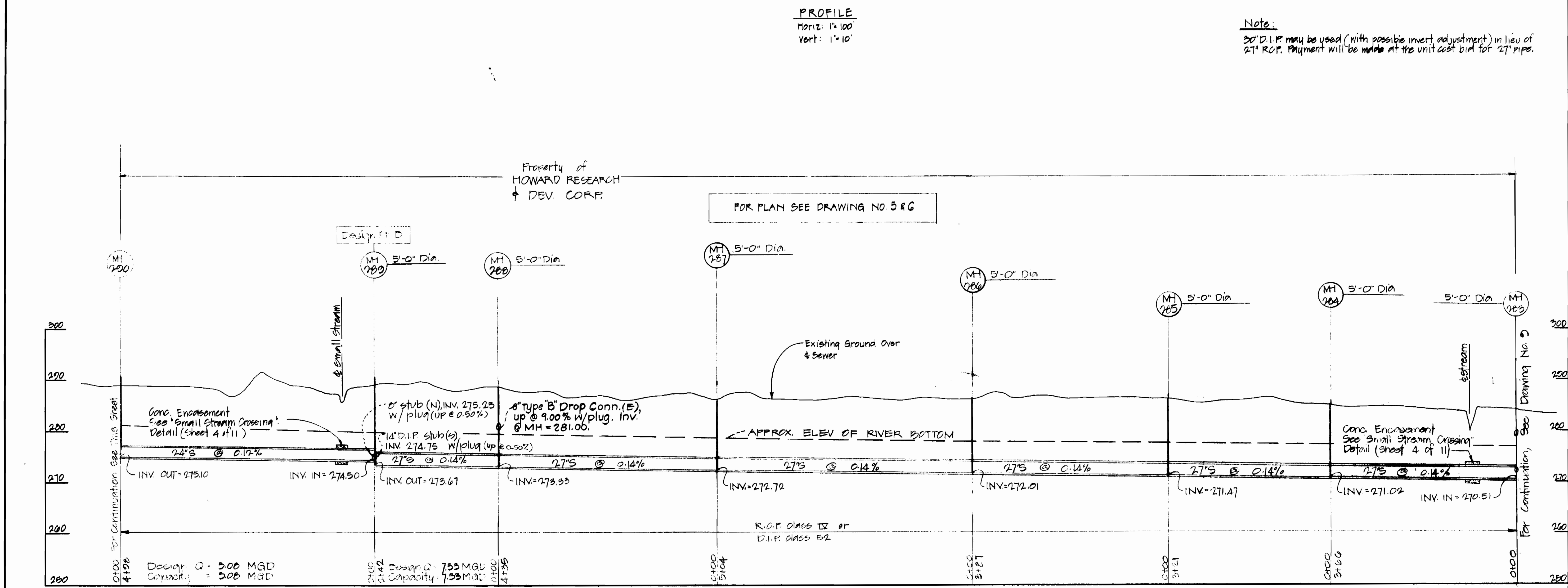
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CHECKED	SZ





PROFILE  
 Horiz: 1"=100'  
 Vert: 1"=10'

Note:  
 30" D.I.P. may be used (with possible invert adjustment) in lieu of 27" R.O.P. Payment will be made at the unit cost bid for 27" pipe.



PROFILE  
 Horiz: 1"=100'  
 Vert: 1"=10'



AS-BUILTS

Rev.	Date	Remarks
Δ 12-84		As-Built

MIDDLE PATUXENT INTERCEPTOR  
 MD. RTE 32 TO HOSPERS GLEN P.S.  
 CAPITAL PROJECT A-0-6070  
 CONTRACT NO. 30-1002

DEPARTMENT OF PUBLIC WORKS  
 HOWARD COUNTY, MARYLAND

*Allen S. Brown* 9/21/82  
 CHIEF BUREAU OF UTILITIES  
 DATE CHIEF UTILITY DIVISION DATE

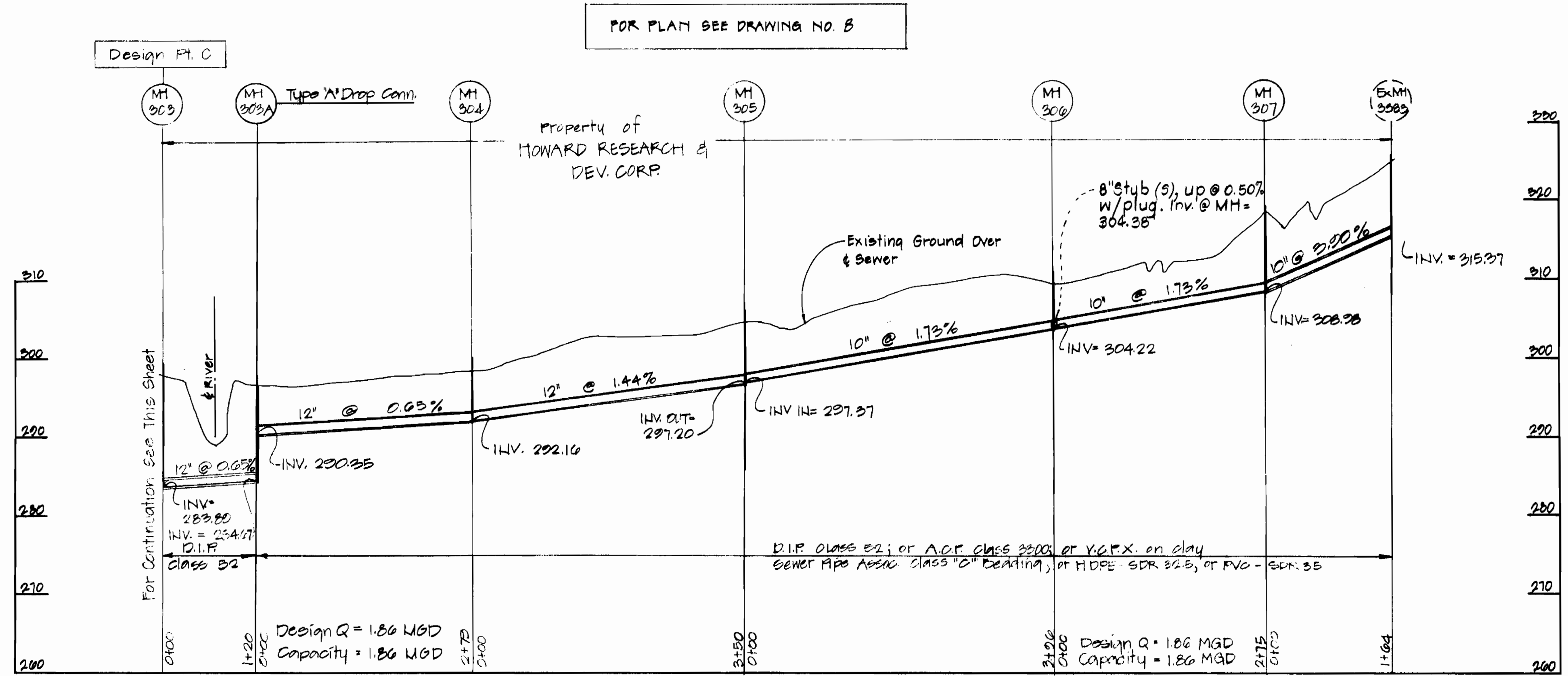
DEWBERRY & DAVIS  
 ENGINEERING - ARCHITECTS - PLANNERS - SURVEYORS  
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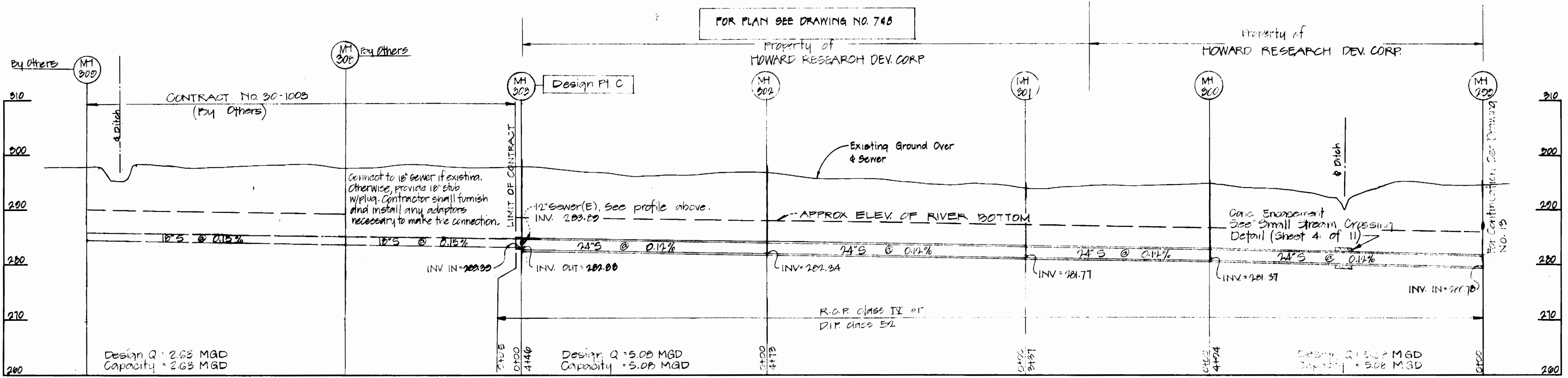
PROFILE  
 OF SANITARY SEWERS

MIDDLE PATUXENT INTERCEPTOR  
 ELECTION DISTRICT NO. 5  
 HOWARD COUNTY, MARYLAND

DRAWING NO. 10 OF 11  
 SCALE AS SHOWN  
 DESIGNED SZ  
 DRAFTED AB  
 CHECKED SZ



**PROFILE**  
 Horiz: 1"=100'  
 Vert: 1"=10'



**PROFILE**  
 Horiz: 1"=100'  
 Vert: 1"=10'



MIDDLE PATUXENT INTERCEPTOR  
 MD RTE 32 TO HOBBITS GLEN P.S.  
 CAPITAL PROJECT A-O-6070  
 CONTRACT NO. 30-1002

DEPARTMENT OF PUBLIC WORKS  
 HOWARD COUNTY, MARYLAND

James M. Lewis  
 DIRECTOR OF PUBLIC WORKS  
 DATE 7/27/82

Allen L. Brown  
 CHIEF BUREAU OF UTILITIES  
 DATE 7/21/82

DEWBERRY & DAVIS  
 ENGINEERING - ARCHITECTS - PLANNERS - SURVEYORS  
 2594 Riva Road, Annapolis, Maryland 21401 (301) 841-6811

CONTRACT NO. 30-1002  
 CAPITAL PROJECT NO. A-O-6070

PROFILE  
 OF SANITARY SEWERS

MIDDLE PATUXENT INTERCEPTOR  
 ELECTION DISTRICT NO. 5  
 HOWARD COUNTY, MARYLAND

DRAWING NO. 11 OF 11	SCALE AS SHOWN	DESIGNED SZ
		DRAFTED AB
		CHECKED SZ