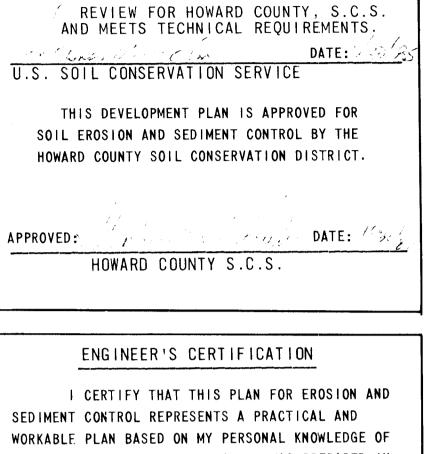
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ENGINEERS

2315 ST. PAUL ST.



THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD COUNTY SOIL CONSERVATION DISTRICT.

Emmes A. Moul DATE: 7-9-4 WHITMAN, REQUARDT AND ASSOCIATES 2315 ST. PAUL STREET BALTIMORE, MD. 21218

DEVELOPER'S CERTIFICATION

"I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND PLAN FOR EROSION AND SEDIMENT CONTROL AND THAT ALL RESPONSIBLE PERSONNEL INVOLVE IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICAT OF ATTENDANCE AT A DEPARTMENT OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT I ALSO AUTHORIZE PERIODIC ON SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY."

DATE: CAR Share Share -

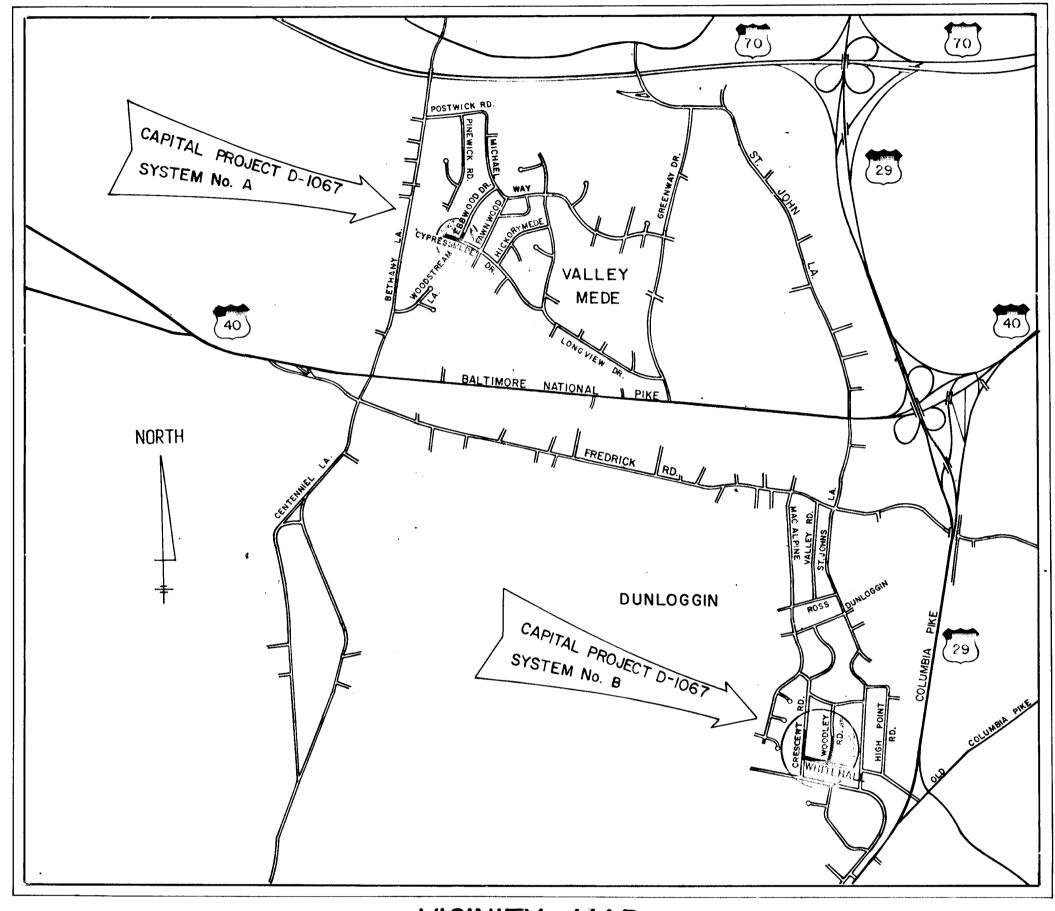
> STORM DRAINAGE IMPRO ELECTION DISTRICT: ELLICOTT CITY NO.2

DEPARTMENT OF PUBLIC WORKS WHITMAN, REQUARDT HOWARD COUNTY, MARYLAND AND ASSOCIATES CHIEF - BUREAU OF ENGINEERING-Jeanth Underison BALTIMORE , MARYLAND alla CHIEF-DIVISION OF ROADS , BRIDGES AND STORM DRAINS - DATE

W.O. 40168

HOWARD COUNTY MARYLAND DEPARTMENT OF PUBLIC WORKS

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VICINITY MAP

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| 600' SCALE MAP NO'S17 € 24 | DATE | REVISION | NO. | BY | DATE: | |



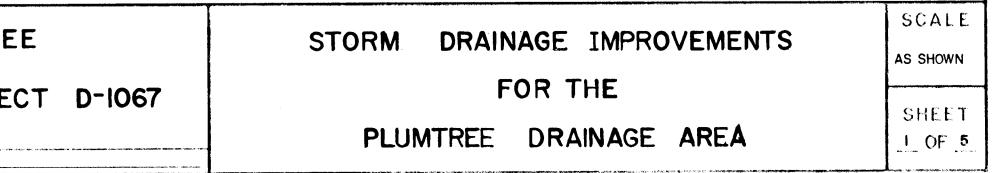
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|-----------|-------------------|-------------------|
| SHEET NO. | DESCRIPTION | LOCATION |
| | PLUMTREE CAPITAL | PROJECT D-1067 |
| l l | TITLE SHEET | |
| 2 | STANDARD DETAILS | |
| 3 | DRAINAGE AREA MAP | |
| 4 | SYSTEM No. A | CYPRESSMEDE DRIVE |
| 5 | SYSTEM No. B | CRESCENT ROAD |

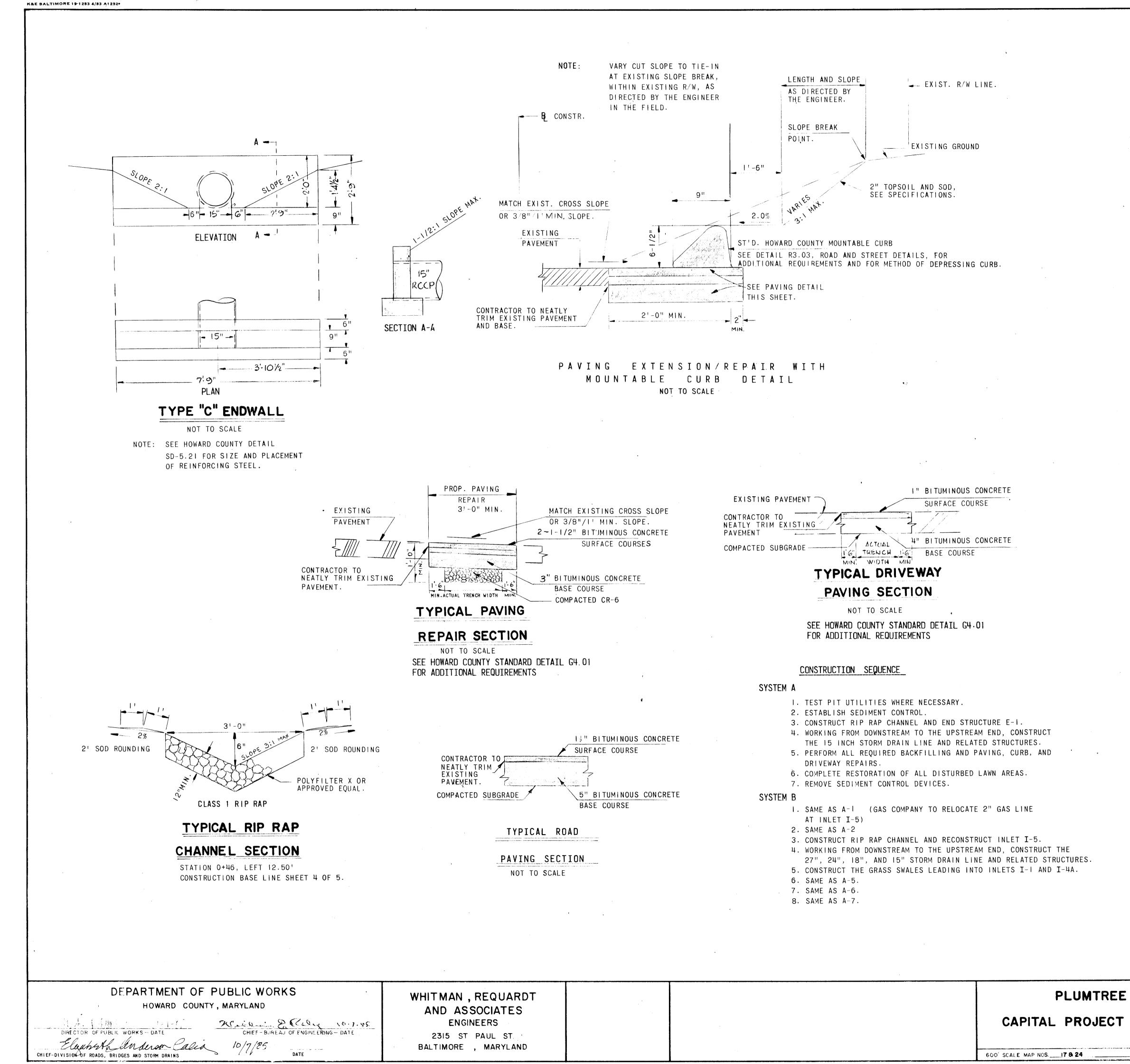


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| | CAPITAL PROJECT D-1067 |
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-- GENERAL NOTES --

I. THE CONTRACTOR SHALL NOTIFY "MISS UTILITY" AT 1-559-0100 FOR UNDERGROUND UTILITY LOCATIONS, AT LEAST FIVE DAYS PRIOR TO COMMENCING WORK SHOWN ON THE PLANS. 2. ALL TOP ELEVATIONS FOR THE PROPOSED INLETS AND MANHOLES ARE APPROXIMATE, AND

ARE TO BE VERIFIED IN THE FIELD BY THE CONTRACTOR AND THE ENGINEER. 3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE RESTORATION OF ALL EXISTING DRIVEWAYS DAMAGED DURING CONSTRUCTION. SEE MEASUREMENT AND PAYMENT IN SPECIAL PROVISIONS. EXISTING BITUMINOUS CONCRETE DRIVEWAYS SHALL BE RESTORED AS FOLLOWS:

(I) A 4 INCH DEPTH OF BITUMINOUS CONCRETE BASE COURSE. (2) A I INCH DEPTH OF BITUMINOUS CONCRETE SURFACE COURSE

4. TREES ARE TO BE PROTECTED FROM DAMAGE TO MAXIMUM EXTENT. TREES LOCATED WITHIN

THE CONSTRUCTION STRIP ARE NOT TO BE REMOVED OR DAMAGED BY THE CONTRACTOR. 5. CONTRACTOR TO GRADE AROUND THE TOP OF THE PROPOSED INLETS IN ORDER TO PROVIDE POSITIVE DRAINAGE TO THE INLETS. LINING SHALL BE AS SHOWN ON THE PLANS OR AS

DIRECTED BY THE ENGINEER 6. COORDINATES ARE BASED ON THE MARYLAND STATE PLANE COORDINATE SYSTEM. 1957 DATUM.

PROJECTED BY THE PLANNING AND ZONING COMMISSION OF HOWARD COUNTY, MARYLAND.

- 7. THE EXISTING UTILITIES AND OBSTRUCTIONS SHOWN ON THE PLANS ARE FROM THE BEST AVAILABLE RECORDS AND SHALL BE VERIFIED BY THE CONTRACTOR TO HIS OWN SATISFACTION BEFORE STARTING CONSTRUCTION. NEITHER THE ENGINEER NOR THE HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS WARRANT TO GUARANTEE THE COMPLETENESS OR CORRECTNESS OF THE INFORMATION SHOWN.
- 8. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT EXISTING UTILITIES. ANY DAMAGE TO THE UTILITIES DUE TO THE CONTRACTOR'S NEGLIGENCE SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTOR'S EXPENSE CLEAR ALL UTILITIES BY A MINIMUM OF 6".
- 9. TEST PITS SHALL BE DUG AT ALL UTILITY CROSSINGS TO DETERMINE EXISTING HORIZONTAL AND VERTICAL ALIGNMENT OF UTILITIES. TEST PITS SHALL BE DUG A SUFFICIENT AMOUNT OF TIME IN ADVANCE OF THE CONSTRUCTION OR TRENCHING OPERATION, IN ORDER TO ALLOW FOR NECESSARY ADJUSTMENTS.

IO. WHERE TEST PITS HAVE BEEN MADE ON EXISTING UTILITIES THEY ARE NOTED BY THE SYMBOL 🚾 . THE RESULTS OF THE TEST PITS ARE INCLUDED ON THE STORM DRAIN PROFILES.

- II. ALL UTILITY POLES MUST BE CLEARED BY 2'-0", OR THE PROPOSED STORM DRAIN SHALL BE PLACED BY TUNNELING. ALL COSTS FOR TUNNELING ARE TO BE INCLUDED IN THE UNIT PRICE BID FOR FURNISHING AND LAYING THE PIPE STORM DRAINS
- 12. ALL VERTICAL CONTROLS ARE BASED ON U.S.G.S. DATUM OF 1929
- 13. ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS.

14. 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 FURNISHING AND LAYING PIPE STORM DRAINS.

- 15. 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.
- 16. EXISTING WATER HOUSE SERVICES, THAT ARE IN CONFLICT WITH THE PROPOSED STORM DRAINAGE FACILITIES, SHALL BE ADJUSTED BY THE CONTRACTOR.
- 17. FOR DETAILS NOT SHOWN ON THE DRAWINGS, AND FOR MATERIALS AND CONSTRUCTION METHODS, THE CONTRACTOR SHALL ABIDE BY THE HOWARD COUNTY DESIGN MANUAL, VOLUME IV, "STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION." AND THE SPECIAL PROVISIONS IN THE EVENT OF ANY DISCREPANCY BETWEEN THESE TWO SOURCES THE LATER SHALL GOVERN.

-- MAINTENANCE OF TRAFFIC--

1. CYPRESSMEDE DRIVE: THE CONTRACTOR SHALL PROVIDE I LANE OF TRAFFIC ON CYPRESSMEDE AND EBBWOOD DRIVES AT ALL TIMES, USING BARRICADES WITH FLASHERS TO BLOCK OFF CONSTRUCTION AND MAINTAIN SAFETY. **2**. CRESCENT ROAD: WITHOUT PREVENTING LOCAL OR EMERGENCY VEHICULAR ACCESS TO THE SURROUNDING PROPERTIES, THE CONTRACTOR MAY BLOCK OFF THROUGH TRAFFIC ON WHITEHALL ROAD DURING THE CONSTRUCTION OF THE PROPOSED I-4. ALSO, THE CONTRACTOR SHALL PROVIDE SUFFICIENT BARRICADES WITH FLASHERS FOR THE DURATION OF THE CONSTRUCTION OF I-1, I-2, AND I-5.

Herm & A. Milora



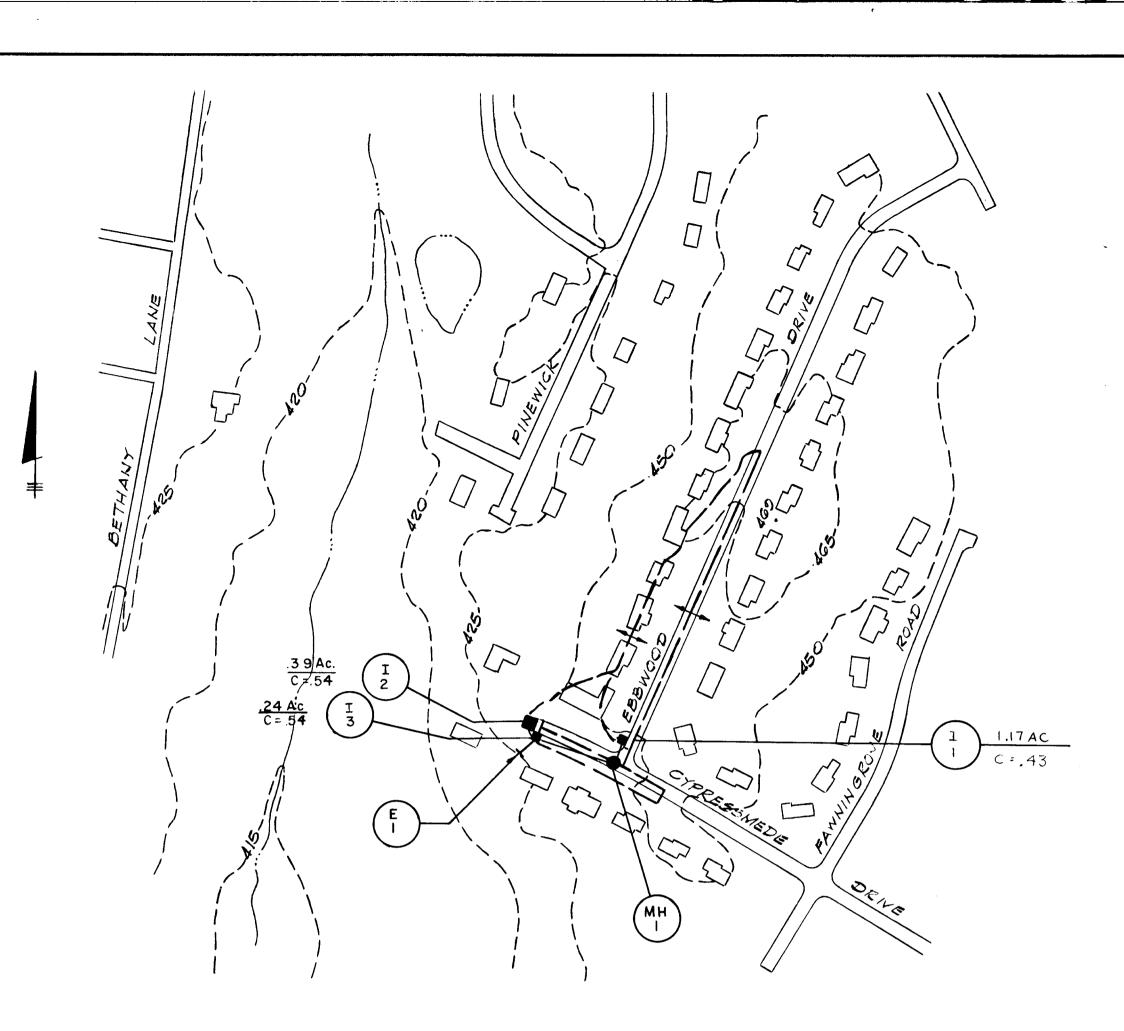
SCALE

STORM DRAINAGE IMPROVEMENTS VALLEY MEDE & DUNLOGGIN

STANDARD DETAILS

AS SHOWN SHEET 2 OF 5

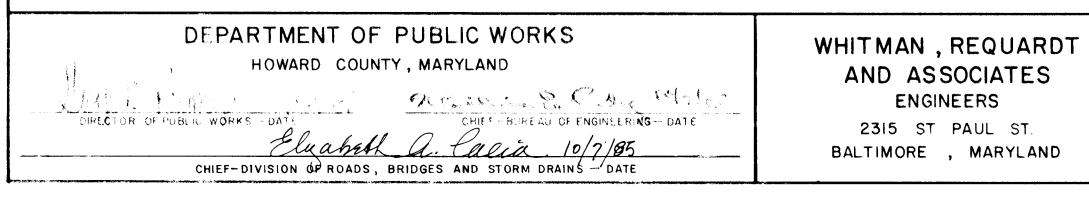
ELECTION DISTRICT ELLICOTT CITY NO. 2



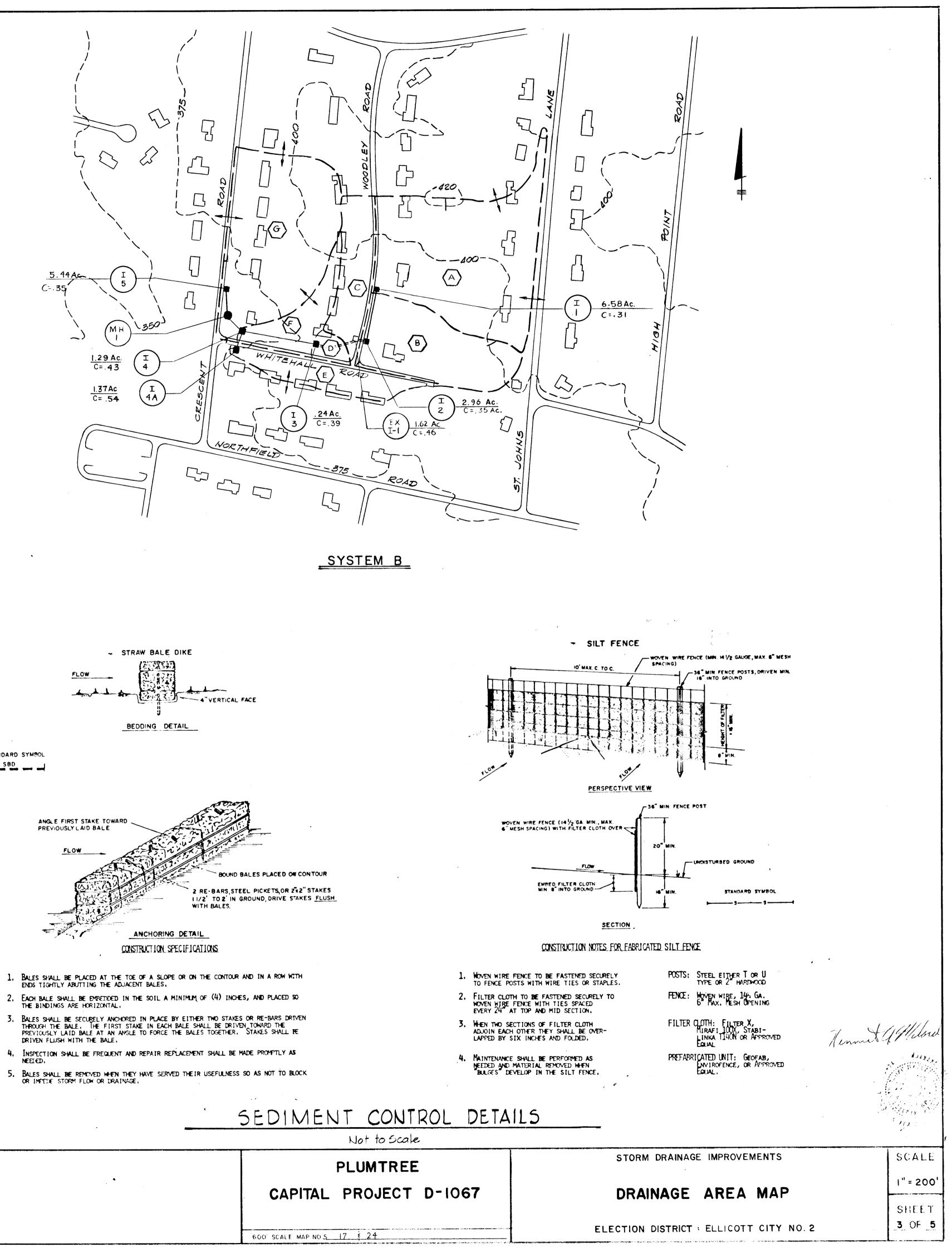
SYSTEM A

-- SOIL EROSION AND SEDIMENT CONTROL NOTES --

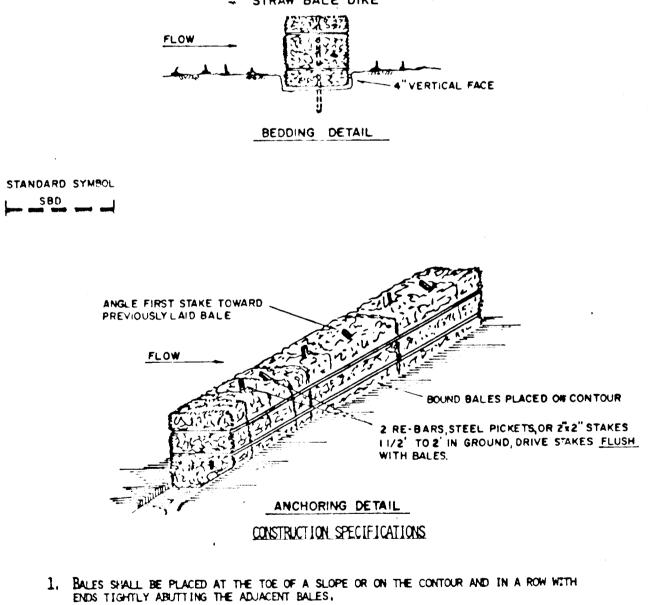
- 1. THE CONTRACTOR WILL COMPLY WITH ALL REQUIREMENTS OF SEDIMENT AND EROSION CONTROL SET FORTH IN THE CONTRACT DRAWINGS, THE 1983 MARYLAND "STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL," AND VOLUME IV - ARTICLE 15 OF THE HOWARD COUNTY DESIGN MANUAL VOLUME IV.
- 2. ALL EXCAVATED MATERIAL SHALL BE PLACED ON THE HIGH SIDE OF THE TRENCH WHENEVER POSSIBLE, AND CONFINED TO AN AREA WHERE IT WILL NOT OBSTRUCT THE NORMAL FLOW OF DRAINAGE COURSES.
- 3. ALL SWALES SHALL BE EQUIPPED WITH A SEDIMENT RETENTION DEVICE TO TRAP SEDIMENT AND FILTER WATER LEAVING THE RIGHT-OF-WAY PRIOR TO ENTERING THE STORM DRAINAGE SYSTEM OR ANY RUNNING STREAMS.
- 4. THE HOWARD COUNTY SOIL CONSERVATION DISTRICT MUST BE NOTIFIED IN WRITING BY THE CONTRACTOR AS TO WHERE EXCESS MATERIAL WILL BE DISPOSED OR BORROW MATERIAL WILL BE OBTAINED. PRIOR TO BEGINNING ANY WORK ON THIS PROJECT COPIES SHALL BE PROVIDED TO THE ENGINEER.
- 5 THE CONTRACTOR SHALL NOTIFY IN WRITING, A HOWARD COUNTY SEDIMENT CONTROL DIVISION REPRESENTATIVE AT LEAST THREE (3) DAYS PRIOR TO STARTING WORK. PLEASE CONTACT HOWARD COUNTY - 992-2436. COPIES SHALL BE PROVIDED TO THE ENGINEER.
- 6. FOLLOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN:
 - A. SEVEN CALENDAR DAYS AS TO THE SURFACE OF ALL PERIMETER CONTROLS, DIKES, SWALES, DITCHES, PERIMETER SLOPES AND ALL SLOPES GREATER THAN 3 HORIZONTAL TO I VERTICAL.
 - B. FOURTEEN CALENDAR DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.



K&E BALTIMORE 19-1253 4/83 A1252*

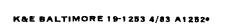


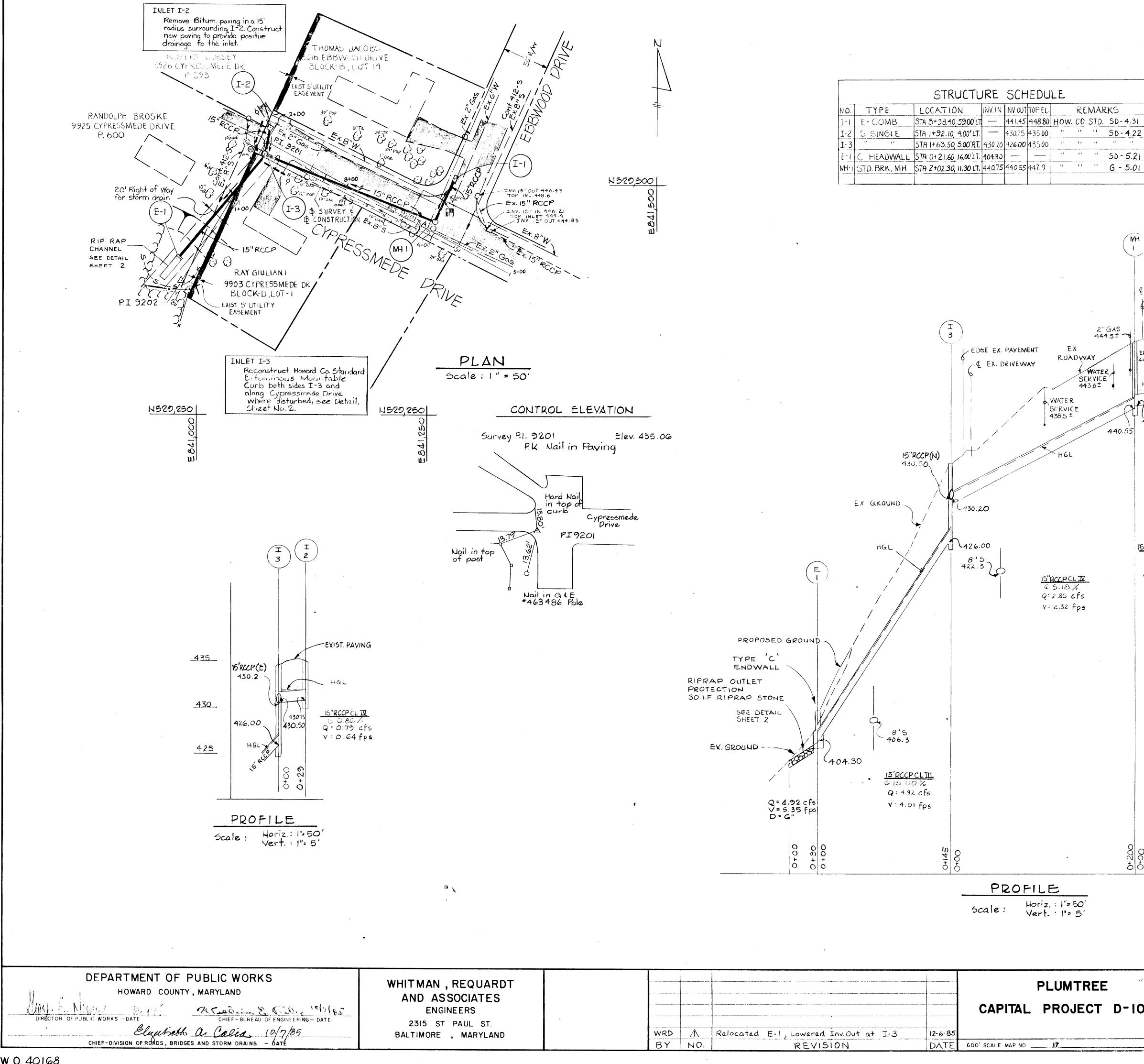
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- 3. BALES SHALL BE SECUBELY ANCHORED IN PLACE BY EITHER TWO STAKES OR RE-BARS DRIVEN THROUGH THE BALE. THE FIRST STAKE IN EACH BALE SHALL BE DRIVEN TOWARD THE PREVIOUSLY LAID BALE AT AN ANGLE TO FORCE THE BALES TOGETHER. STAKES SHALL FE DRIVEN FLUSH WITH THE BALE.
- 4. INSPECTION SHALL BE FREQUENT AND REPAIR REPLACEMENT SHALL BE MADE PROMPTLY AS NEELED.

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| | | WRD | | Relocated E-1, Lowered Inv. Out at I-3 | 12-6-85 | | | |
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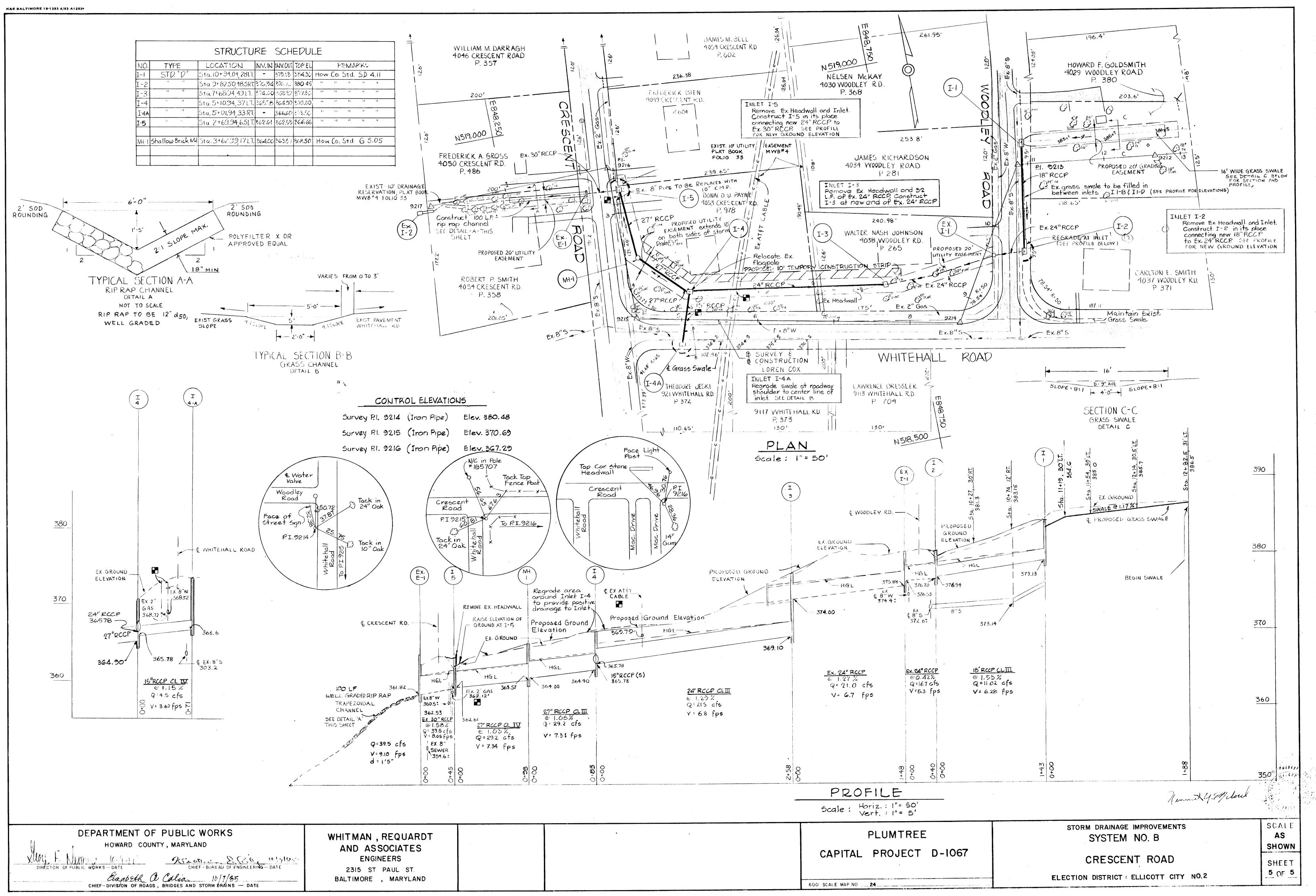
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STORM DRAINAGE IMPROVEMENTS SYSTEM NO. A CYPRESSMEDE DRIVE SCALE AS SHOWN SHEET 4 OF 5

ELECTION DISTRICT : ELLICOTT CITY NO. 2



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