

SECTION TWO LOTS 10-24 MAIHIS PROPERTY

THIRD ELECTION DISTRICT HOWARD COUNTY, MARYLAND

OWNER:

WILLARD & QUINNIE MATHIS 12392-A FREDERICK ROAD WEST FRIENDSHIP, MARYLAND 21794 (301) 489-4024

DEVELOPER: BARNARD BROTHERS CONSTRUCTION CO., INC. 1035 St. MICHEALS ROAD MT. AIRY, MARYLAND 21771 (301) 489-7621

REVISION

PER COMMENTS

PER COMMENTS

DEPARTMENT OF PUBLIC WORKS

HOWARD COUNTY OFFICE OF PLAN-

DATE CHIEF, LAND DEVELOPEMENT DIVISION

APPROVED: FOR STORM DRAINAGE & PUBLIC ROADS

DATE CHIÉF, BUREAU OF ENGINEER

NING AND ZONING

APPROVED:

1/6/88

ENGINEER:

SHELADIA ASSOCIATES, INC. 310 SOUTH MAIN STREET MT. AIRY, MARYLAND 21771 (301) 829-2890

- 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. Clear all utilities by a minimum of 6°. Clear all poles by 2'-0" minimum or tunnel as required. Any cost incurred to the contractor for tunneling or bracing at poles shall be included in unit prices bid for construction of the main.
- 6. For details not shown on the drawings use Boward County Standard
- 7. For materials and construction methods use Howard County Standard Specifications.
- 8. Contractor shall locate existing wtilities a minimum of two (2) weeks in advance of construction operations in the vicinity of proposed utilities at his own expense
- 9. Contractor shall notify the following utilities or agencies at least five (5) working days before starting work shown on these
 - State Wighway Administration 531-5533
 - Baltimore Gas & Electric Company Underground Electric Distribution Customer Service - 685-0123
 - Baltimore Gas & Electric Company Underground Gas Distribu-
 - Engineerig "Damage Control" 234-5621
- 18. Trees are to be protected from damage to maximum extent. Trees located within the construction strip are not to be removed or
- 11. 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 the
- 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 Oper-
 - I, HEREBY CERTIFY THAT THESE PLANS OF CONSTRUCTION HAVE BEEN PREPARED IN ACCORDANCE WITH THE HOWARD

COUNTY DESIGN MANUAL.

AS-BUILT SURVEY CERTIFIED

BY SOURABH G. MUNSHI P.E. No. 10,539 OCTOBER 20, 1938

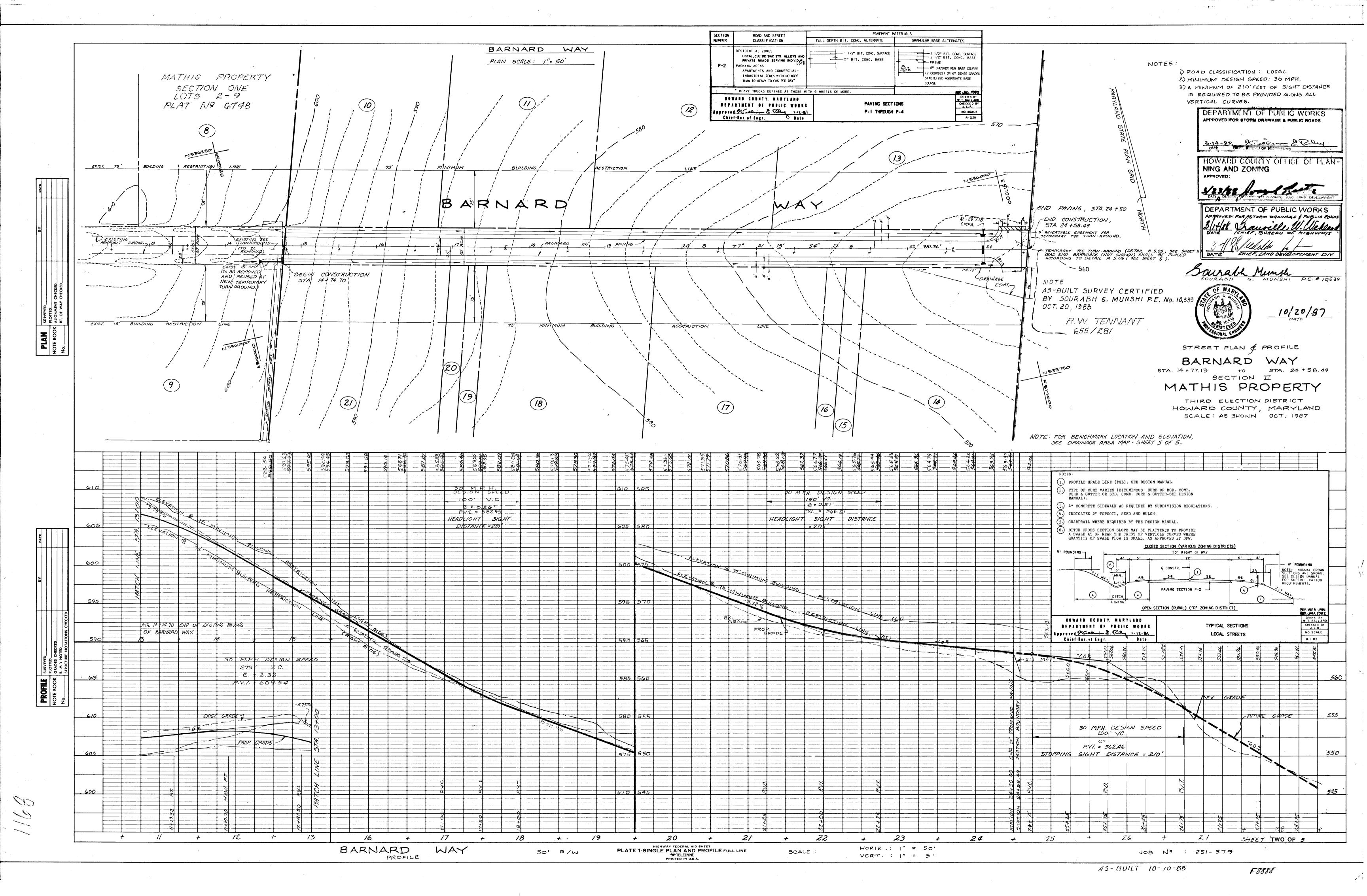


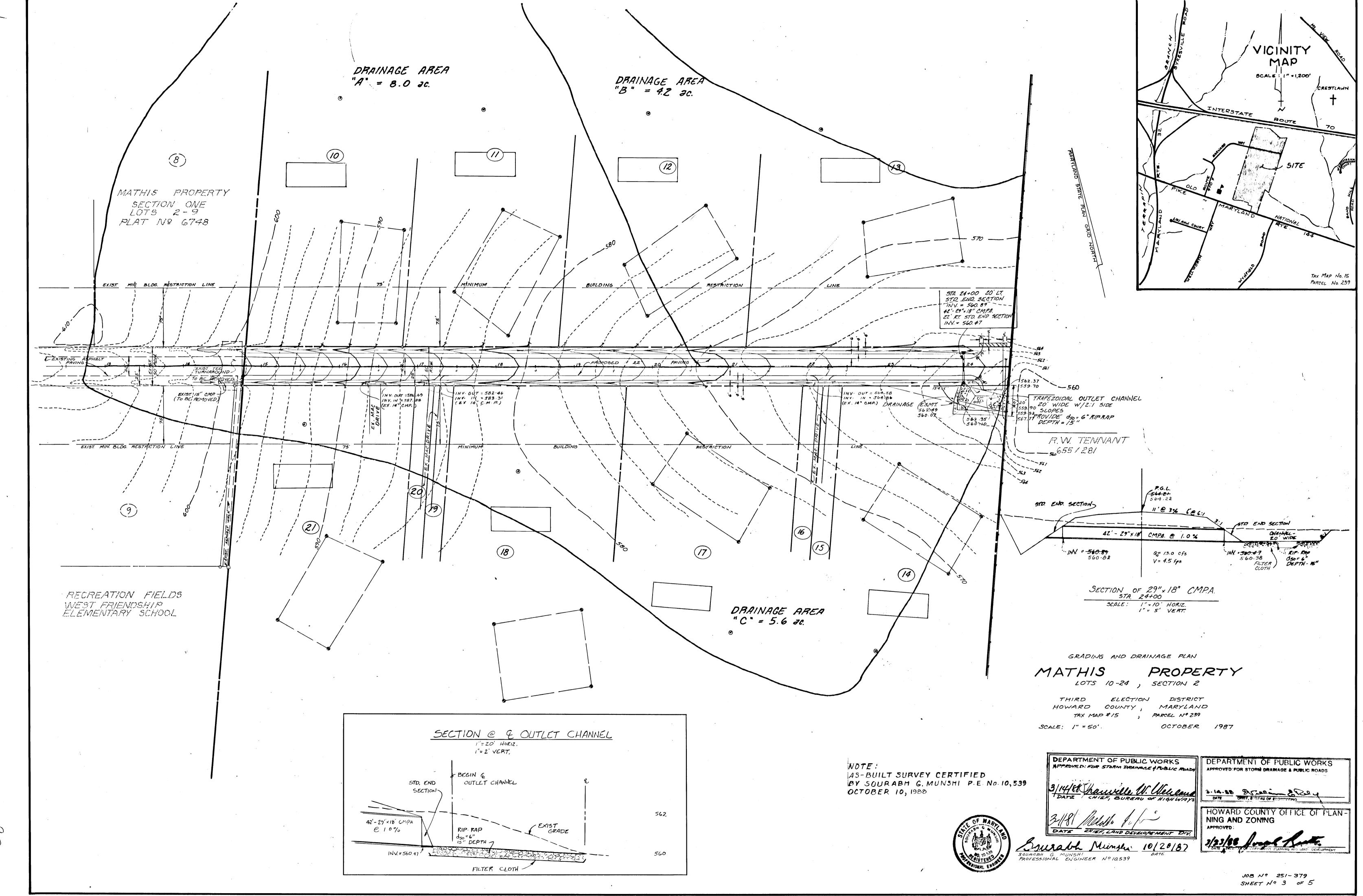
IMPROVEMENT PLANS INDEX

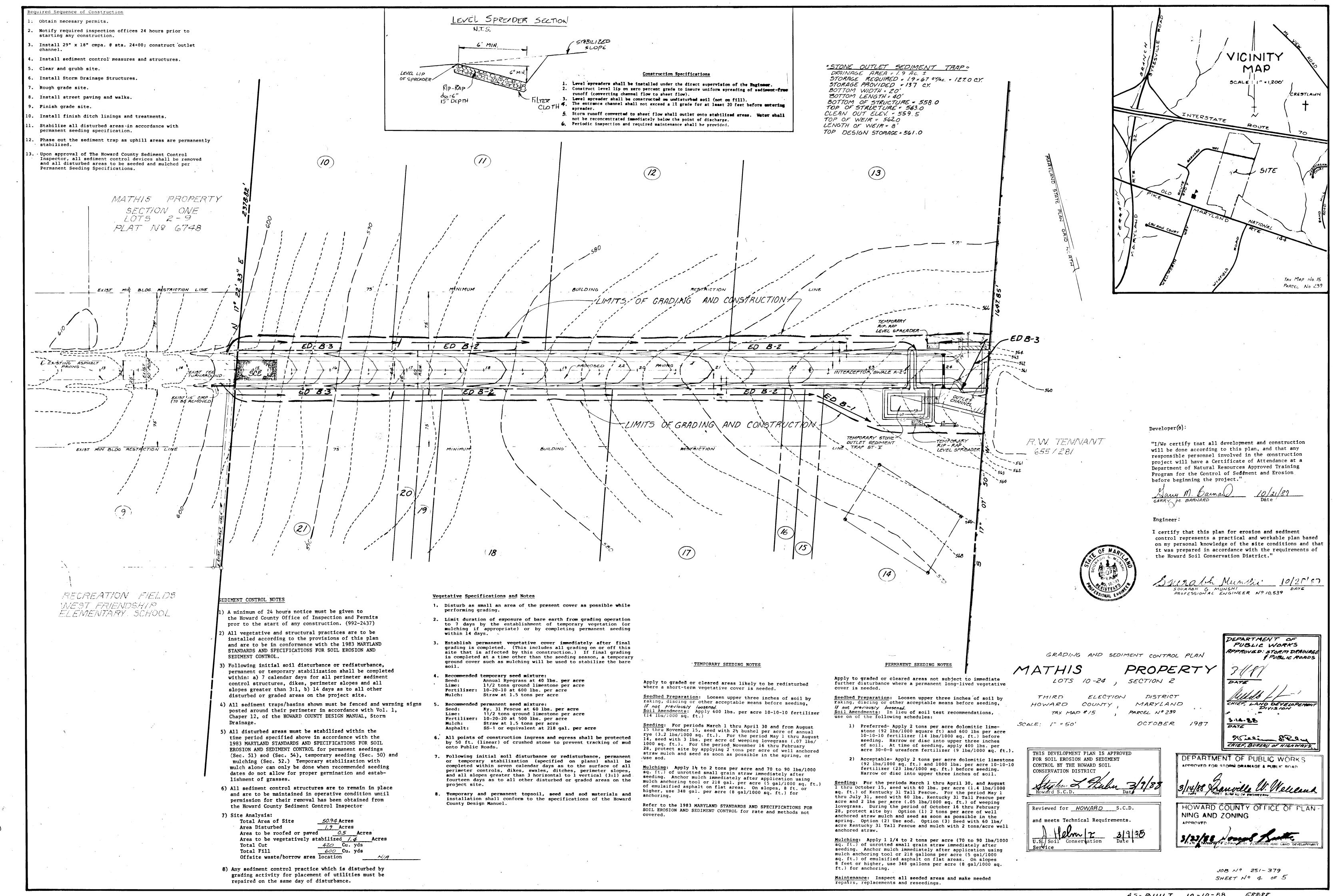
COVER SHEET STREET PLAN AND PROFILE FOR BARNARD WAY GRADING AND DRAINAGE PLAN GRADING AND SEDIMENT CONTROL PLAN

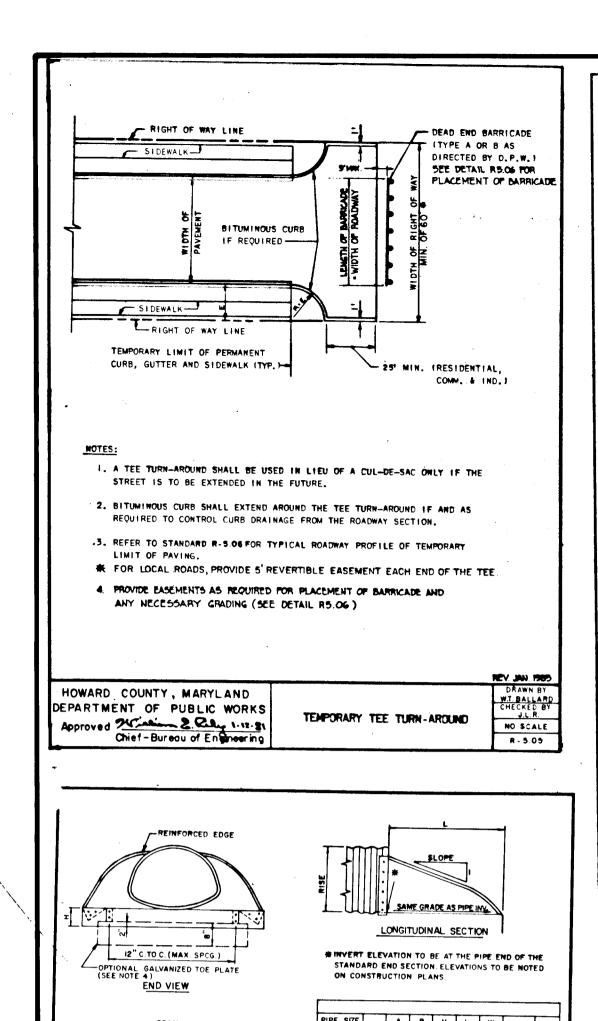
..DRAINAGE AREA MAP & CONSTRUCTION DETAILS

SHEET ONE OF 5









65 | 54 | 12 | 18 | 39 | 12 | 77 | 138 | 2 | 3 PC

PER EACH OF METAL END SECTION

METAL END SECTION

ARCH METAL PIPE

CENTER PANELS WIDTH OF CENTER PANELS TO BE GREATER
THAN 20% OF THE PIPE PERIPHERY MULTIPLE PANEL
TO THE END SECTION BY GALVANIZED RIVETS AND

JOINED BY 3/8" & GALVANIZED RIVETS OR BOLTS.

2. FOR THE 79"X 49" AND 85"X 54" SIZES, REINFORCED EDGE

STRUCTURAL PLATE ARCH PIPE, THE END SECTION TO BE SUPPLEMENTED BY 2"X2"X1/4" GALVANIZED ANGLES. SHALL BE ORDERED WITHOUT THE ONE FOOT OF PIPE

4. TOE PLATE SHALL BE USED WHEN SPECIFIED ON THE

5. TYPE 3 CONNECTION INCLUDES ONE FOOT OF PIPE LENGT

FOR 65"X 40" THRU 85"X 54" DIAMETER AS A CONNETOR

LENGTH AS STIPULATED IN NOTE 5, INSTEAD, DRILL

MOLES AND FIELD BOLT THE END SECTION DIRECTLY TO THE STRUCTURAL PLATE ARCH PIPE

GALVANIZED

I. ALL 3 PIECE BODIES TO HAVE 12 GA SIDES AND ID GA.

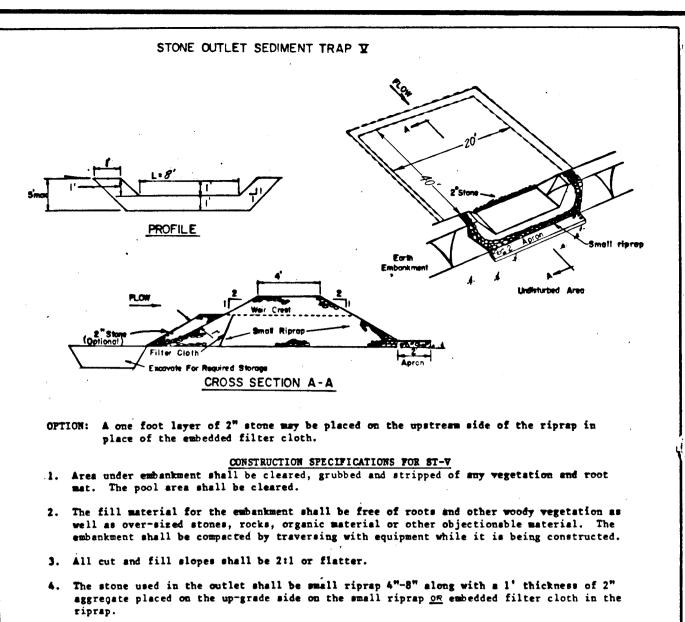
THE ANGLES TO BE ATTACHED BY 3/8" & GALVANIZED

3. ANGLE REINFORCEMENT WILL BE PLACED UNDER THE CENTER PANEL SEAMS ON THE 79"X 49" AND 85"X 54"

HOWARD COUNTY, MARYLAND

DEPARTMENT OF PUBLIC WORKS

BODIES TO HAVE LAP SEAMS WHICH ARE TO BE TIGHTLY BOLTS



. Sediment shall be removed and trap restored to its original dimensions when the sediment

7. Construction operations shall be carried out in such a manner than erosion and water

8. The structure shall be removed and the area stabilized when the drainage area has been

STONE OUTLET SEDIMENT TRAP

6. The structure shall be inspected after each rain and repairs made as needed.

has accumulated to a the design depth of the trap.

pollution is minimized.

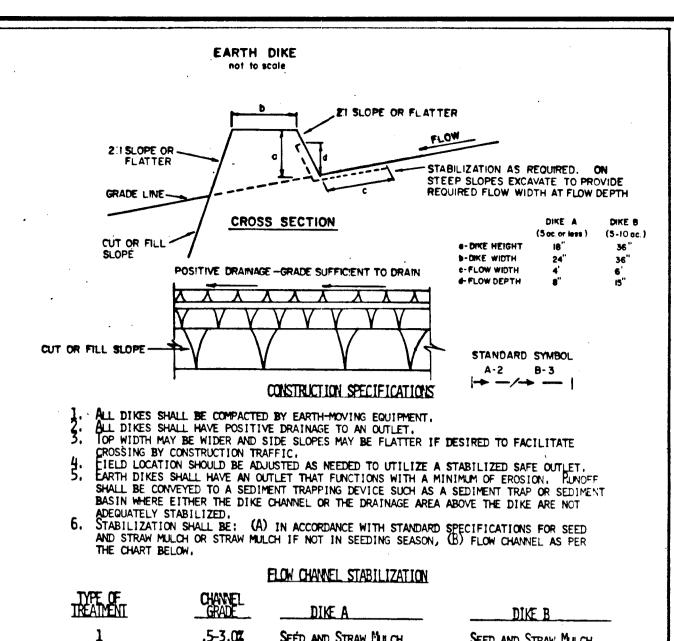
properly stabilized.

Maximum Drainage Area: 5 Acres

U.S. DEPARTMENT OF AGRICULTURE

SOIL CONSERVATION SERVICE

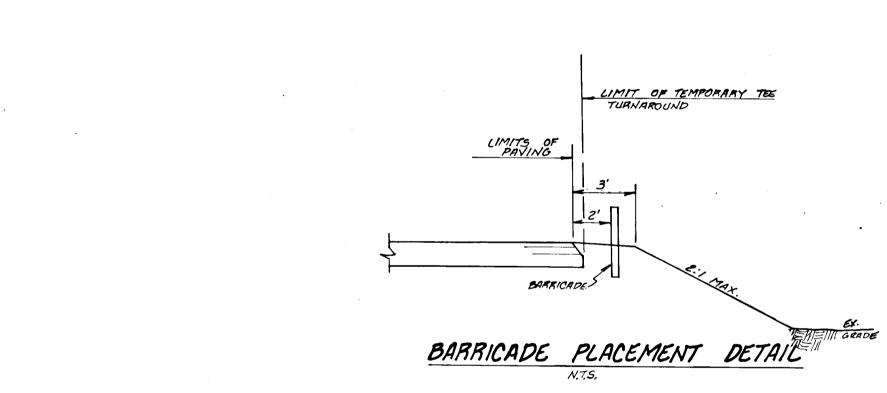
COLLEGE PARK, MARYLAND



		FLOW CHANNEL STABILIZATION	
TYPE OF IREALMENT	CHANNEL GRADE	DIKE A	DIKE B
1	.5-3.0%	SEÉD AND STRAW MULCH	SEED AND STRAW MULCI
2	3.1-5.0%	SEED AND STRAW MULCH	SEED USING JUTE, OR EXCELSION; SOD; 2"
3	5.1-8.0%	SEED WITH JUTE, OR SOD; 2" STONE	LINED RIP-RAP 4-8"
4.	8.1-207	LINED RIP-RAP 4-8"	ENGINEERING DESIGN

7. PERIODIC INSPECTION AND REQUIRED MAINTENANCE MUST BE PROVIDED AFTER EACH RAIN EVENT. U.S. DEPARTMENT OF AGRICULTURE STANDARD DRAWING SOIL CONSERVATION SERVICE EARTH DIKE

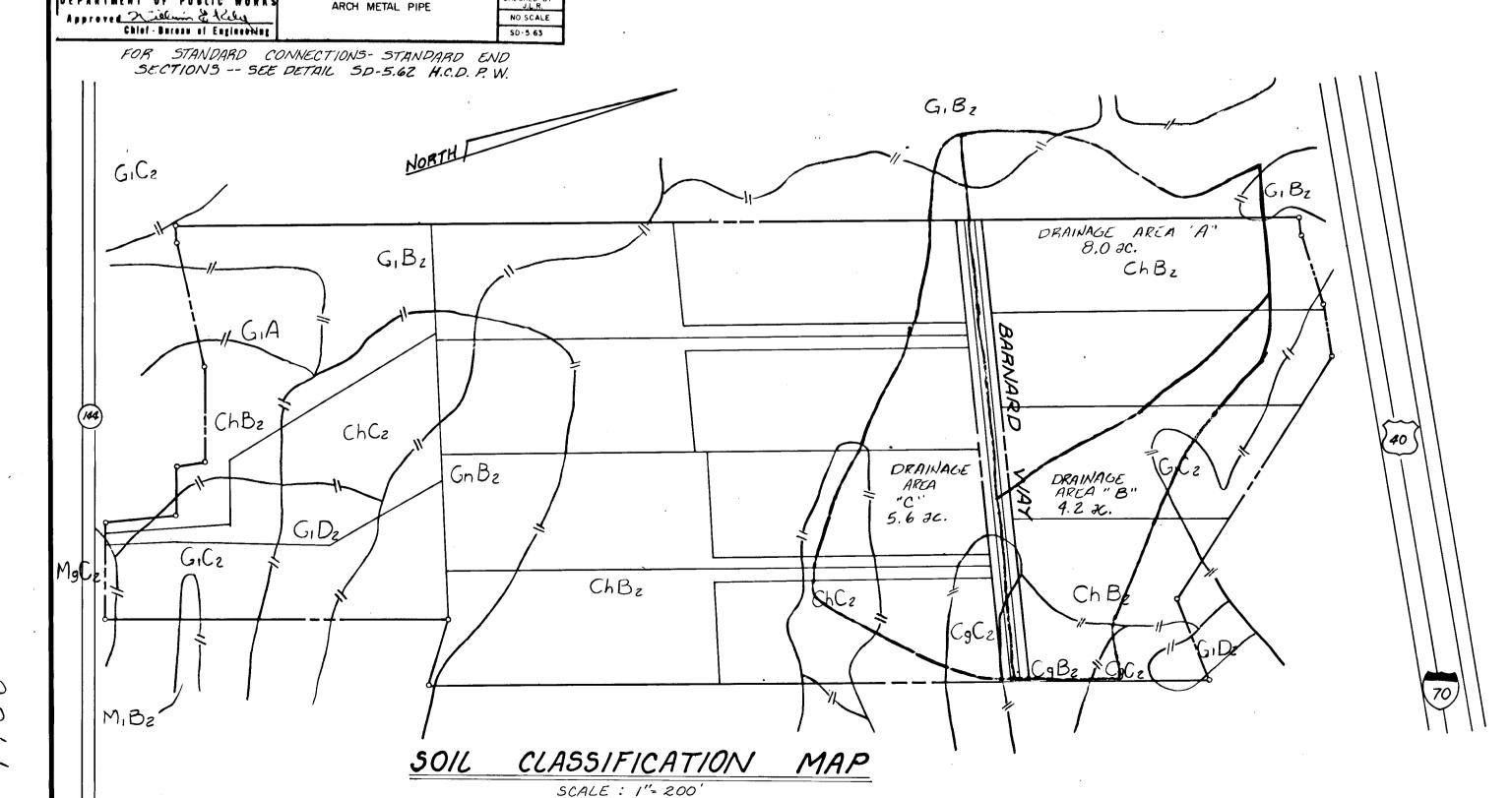
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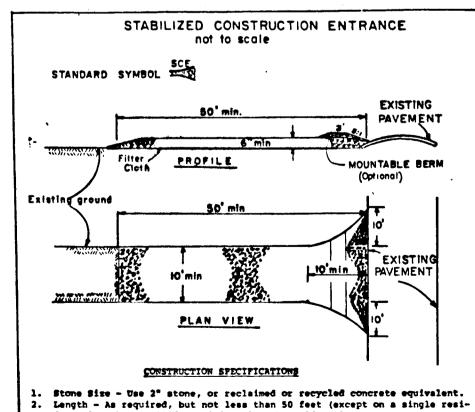


STANDARD DRAWING

ST-V

COLLEGE PARK, MARYLAND

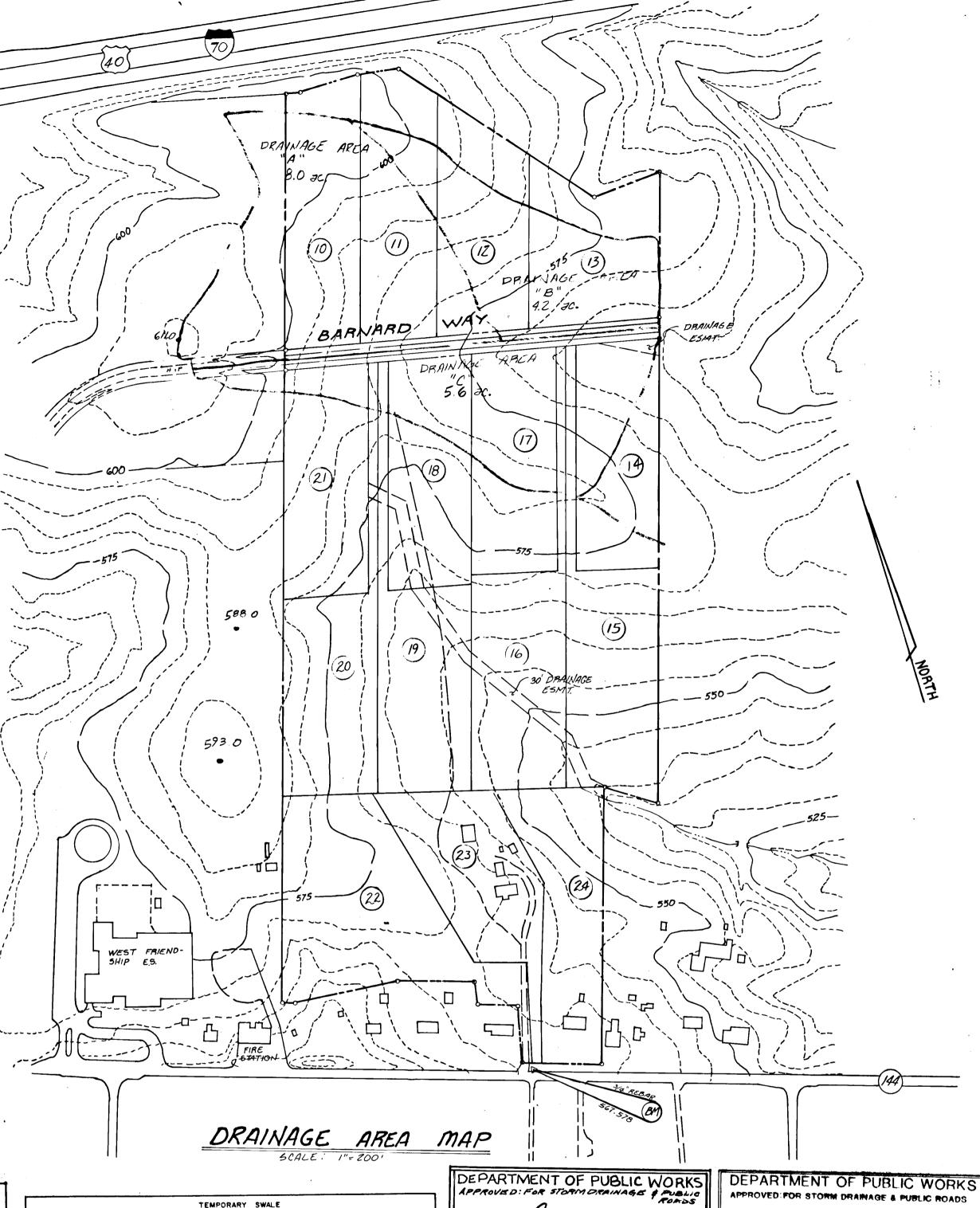


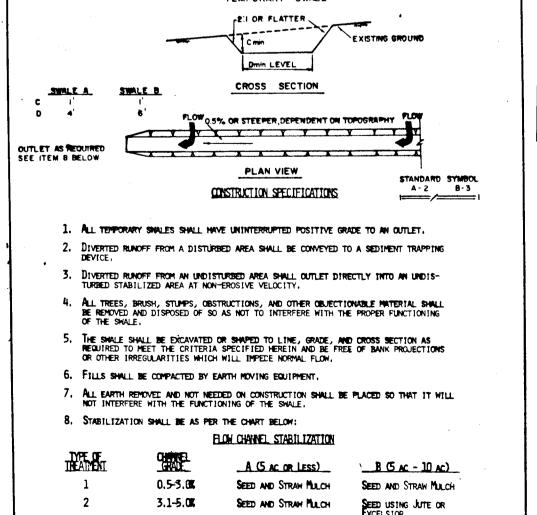


- dence lot where a 30 foot minimum length would apply). 3. Thickness - Not less than six (6) inches. 4. Width - Ten (10) foot minimum, but not less than the full width at
- points where ingress or egress occurs.

 5. Filter Cloth Will be placed over the entire area prior to placing of stone Filter will not be required on a single family residence lot. 6. Surface Water - All surface water flowing or diverted toward construction
- entrances shall be piped across the entrance. If piping is impractical, a mountable berm with 5:1 slopes will be permitted. Maintenance - The entrance shall be maintained in a condition which will prevent tracking or flowing of sediment onto public rights-of-way. This may require periodic top dressing with additional stone as conditions demand and repair and/or cleanout of any measures used to trap sediment. All
- sediment spilled, dropped, washed or tracked onto public rights-of-way must Washing - Wheels shall be cleaned to remove sediment prior to entrance onto public rights-of-way. When washing is required, it shall be done on an area stabilized with stone and which drains into an approved sediment trapping

Periodic inspection and needed maintenance shall be provided after each rain U. S. DEPARTMENT OF AGRICULTURE STABILIZED CONSTRUCTION Standard SOIL CONSERVATION SERVICE College Park, Md.





LINED 4-8" RIP-RAP

TEMPORARY SWALE

9. PERIODIC INSPECTION AND REQUIRED MAINTENANCE MUST BE PROVIDED AFTER EACH RAIN EVENT

8.1-207

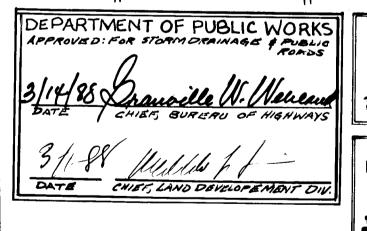
U.S. DEPARTMENT OF ACRICULTURE

SOIL CONSERVATION SERVICE

COLLEGE PARK, MARYLAND

LINED RIP-RAP 4-8"
RECYCLED CONCRETE EQUIVALENT

ENGINEERED DESIGN



APPROVED: FOR STORM DRAINAGE & PUBLIC ROADS HOWARD COUNTY OFFICE OF PLAN-NING AND ZONING



SOURABH G. MUNSHI PROFESSION AL ENGINEER Nº 10,539

DATE

DRAINAGE AREA MAP AND CONSTRUCTION DETAILS MATHIS PROPERTY

THIRD HOWARD COUNTY .

SCALE: AS SHOWN

DISTRICT MARYCAND OCTOBER 1987

JOB Nº 251 - 379 SHEET Nº 5 OF 5

LOTS 10-24 , SECTION 2