JOHNS HOPKINS ROAD

HOWARD COUNTY, MARYLAND

PINDELL SCHOOL ROAD TO U.S. ROUTE 29

CAPITAL PROJECT NO. J-5-4014



NOTES

- 1. DESIGN SPEED 40 M.P.H.
- 2. HORIZONTAL AND VERTICAL CONTROL BASED ON MARYLAND STATE SYSTEM.
- 3. "ROCK/SOILS INFORMATION FURNISHED BY HARDIN ASSOCIATES, INC. OF PASADENA MD DND ASSUMES NO RESPONIBILITY FOR THE MATION REGARDING THIS ITEM, PLEASE CONTACT THE FIRM OF HARDIN ASSOCIATES, INC., PASADENA, MARYLAND.
- ALL STRUCTURE STANDARDS REFER TO HOWARD COUNTY STANDARD SPECIFICATIONS FOR CONSTRUCTION UNLESS OTHERWISE NOTED.

ABBREVIATIONS

B.C.C.M.P.A. BITUMINOUS COATED CORRUGATED METAL PIPE ARCH P.G.L. PROFILE GRADE LINE BITUMINOUS COATED CORRUGATED METAL PIPE P.I. POINT OF INTERSECTION PROPERTY LINE BASELINE P.R.C. POINT OF PEVERSE CURVE **BOTTOM WIDTH** CENTERLINE P. T. POINT OF TANGENCY CORRUGATED METAL PIPE P.V.C. POINT OF VERTIVAL CURVE DIAMETER PVCC POINT OF VERTICAL COMPOUND CURVE P. V.I. POINT OF VERTICAL INTERSECTION DRIVEWAY PVRC POINT OF VERTICAL REVERSE CURVE DRAWING ELEVATION P.V.T. POINT OF VERTICAL TANGENCY P.R.C POINT OF REVERSE CURVE ELECTRIC E & T **ELECTRIC & TELEPHONE** R.C.P. REINFORCED CONCRETE PIPE RIGHT OF WAY EXISTING S.E. SUPER ELEVATION HIGH POINT S.H.A. STATE HIGHWAY ADMINISTRATION INV. INVERT S.R.C. STATE ROADS COMMISSION **IRON PIPE** STA. STATION LOW POINT STD. STANDARD MAXIMUM TYP. TYPICAL NORMAL CROWN P.C. UNDERGROUND POINT OF CURVE VERTICAL CURVE

REVIEW FOR HOWARD COUNTY SOIL CONSERVATION DISTRACT AND MEETS TECHICAL REQUIREMENTS. S. SOIL CONSERVATION SERVICE THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD COUNTY SOIL CONSERVATION DISTRICT.

SIMPSONVILLE ATHOLTON W.R. GRACE RESEARCH\ JOHNS HOPKINS LIMIT OF PROJECT-UNIVERSITY APPLIED PHYSICS GORMAN **HAMMOND** SCAGGSVILLE LOCATION MAP Scale: 1" = 2,000'

SEQUENCE OF CONSTRUCTION

- 1. Construction of the entire length of road including provision of the sediment and erosion control measures shall be divided into various segments. Each segment being defined by the limits of surface runoff draining into the specific road culvert.
- 2. The culvert discharging clean surface runoff (including other stormdrain systems connecting to the culvert pipe) shall be constructed first, prior to any road grading activity within that
- 4. Complete all remaining sediment control measures as shown. . Grade all roads to subgrade along with all proposed ditches.
- 7. Stabilize drainage ditches by seeding or sodding as indicated on the plans.
- 9. Remove all sediment control facilities ties (with inspector's approval)

CONVENTIONAL

EXISTING ROAD OR DRIVEWAY UTILITY POLE EX. RIGHT-OF-WAY OR PROPERTY LINE NEW RIGHT-OF-WAY OR PROPERTY LINE

TEST BORING LOCATION RECONSTRUCTED PAVED ROAD

PROPOSED PAVED ROAD WITH CUR **EXISTING PAVED ROAD WITH CURB NEW CULVERT**

- COVER SHEET
- PLAN & PROFILE
- 3. PLAN & PROFILE
- 4. PLAN & PROFILE
- PLAN & PROFILE 6. PLAN & PROFILE
- PLAN & PROFILE PLAN & PROFILE
- SUPERELEVATION DIAGRAMS
- 10. PAVING SECTIONS & DETAILS
- 11. CULVERT PROFILES & OUTFALL DETAILS
- 12. CULVERT PROFILES & OUTFALL DETAILS
- 13. CULVERT PROFILES & OUTFALL DETAILS & SEDIMENT CONTROL DETAILS

DEVELOPER'S CERTIFICATE

I CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN. AND THAT ANY RESPONSIBLE PERSONNEL INVOLED 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.

WILLIAM E. RILEY, CHIEF BUREAU OF ENGINEERING G-14-83

ENGINEER'S CERTIFICATE

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 COUNTY SOIL CONSERVATION DISTRICT.

DHARAM V. KATHURIA, P.E.

DESIGNED: P.L.

DRAFTED: ___L.B

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND

DIRECTOR OF PUBLIC WORKS

DRAINS DIVISION

DEWBERRY, NEALON & DAVIS

8411 Arlington Boulevard, Fairfax, Virginia 22030

19201 Montgomery Village Ave., Gaithersburg, Md. 20760

ENGINEERS-ARCHITECTS-PLANNERS-SURVEYORS 2594 Riva Road, Annapolis, Maryland 21401

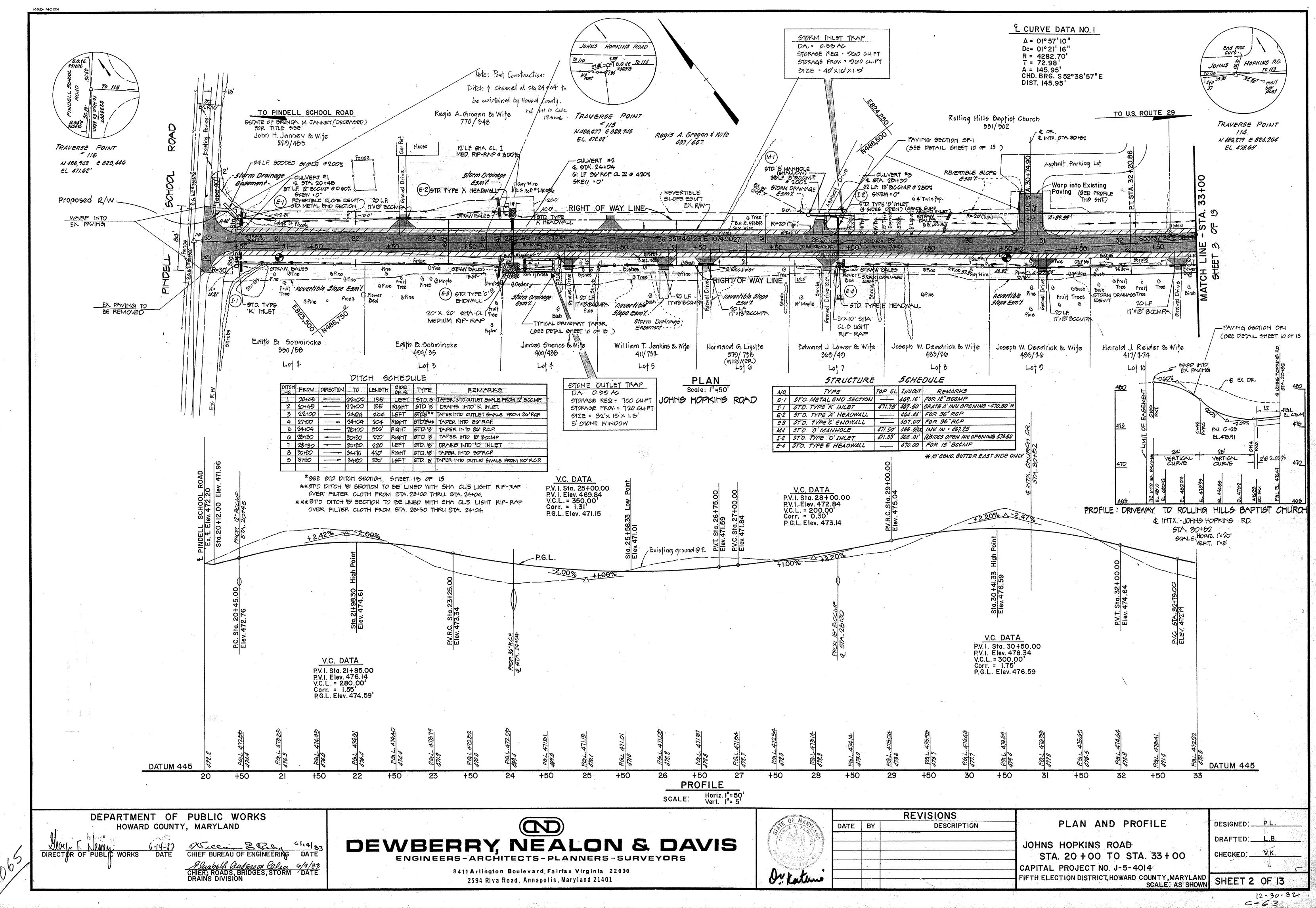


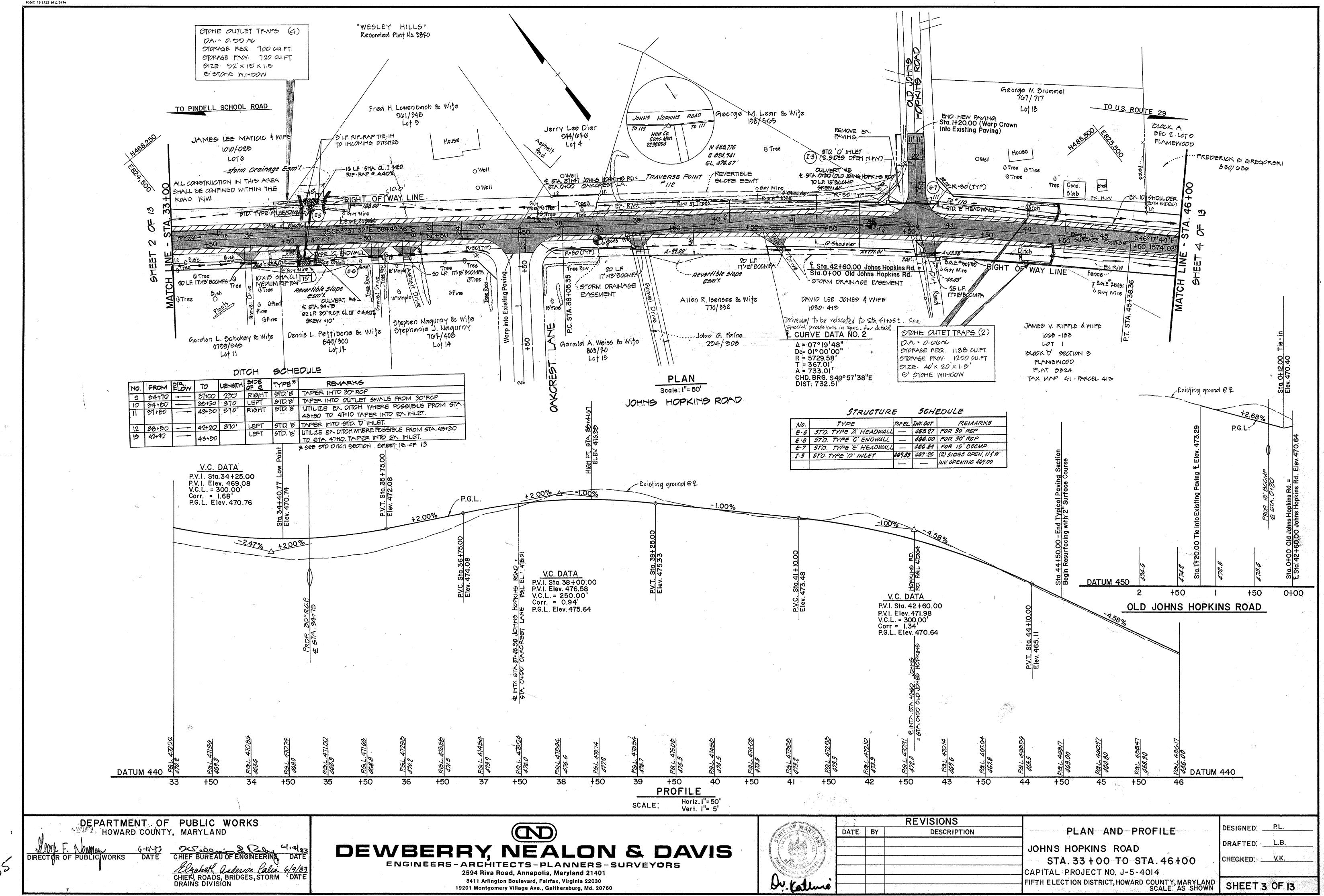
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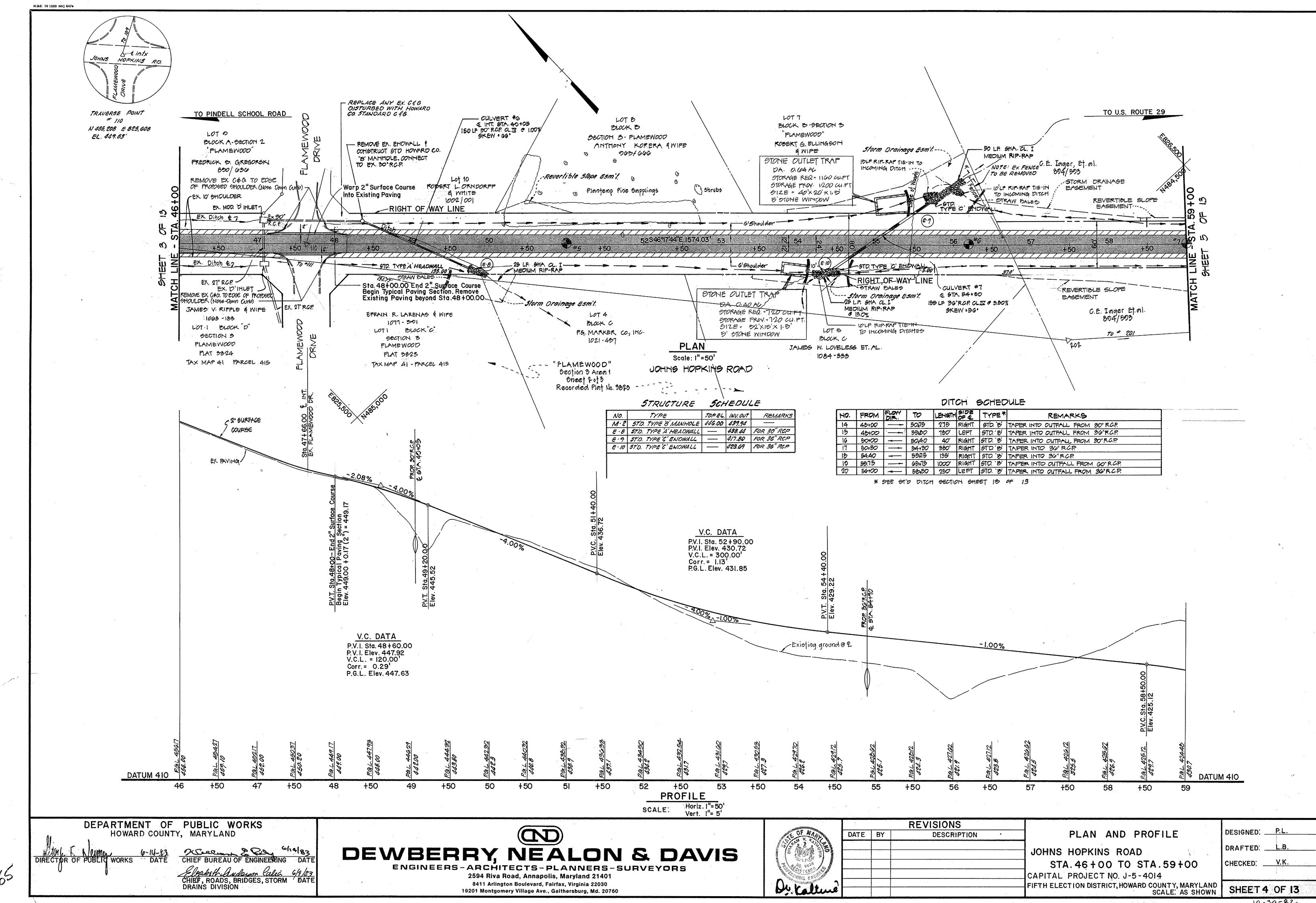
COVER SHEET OHNS HOPKINS ROAD IMPROVEMENT

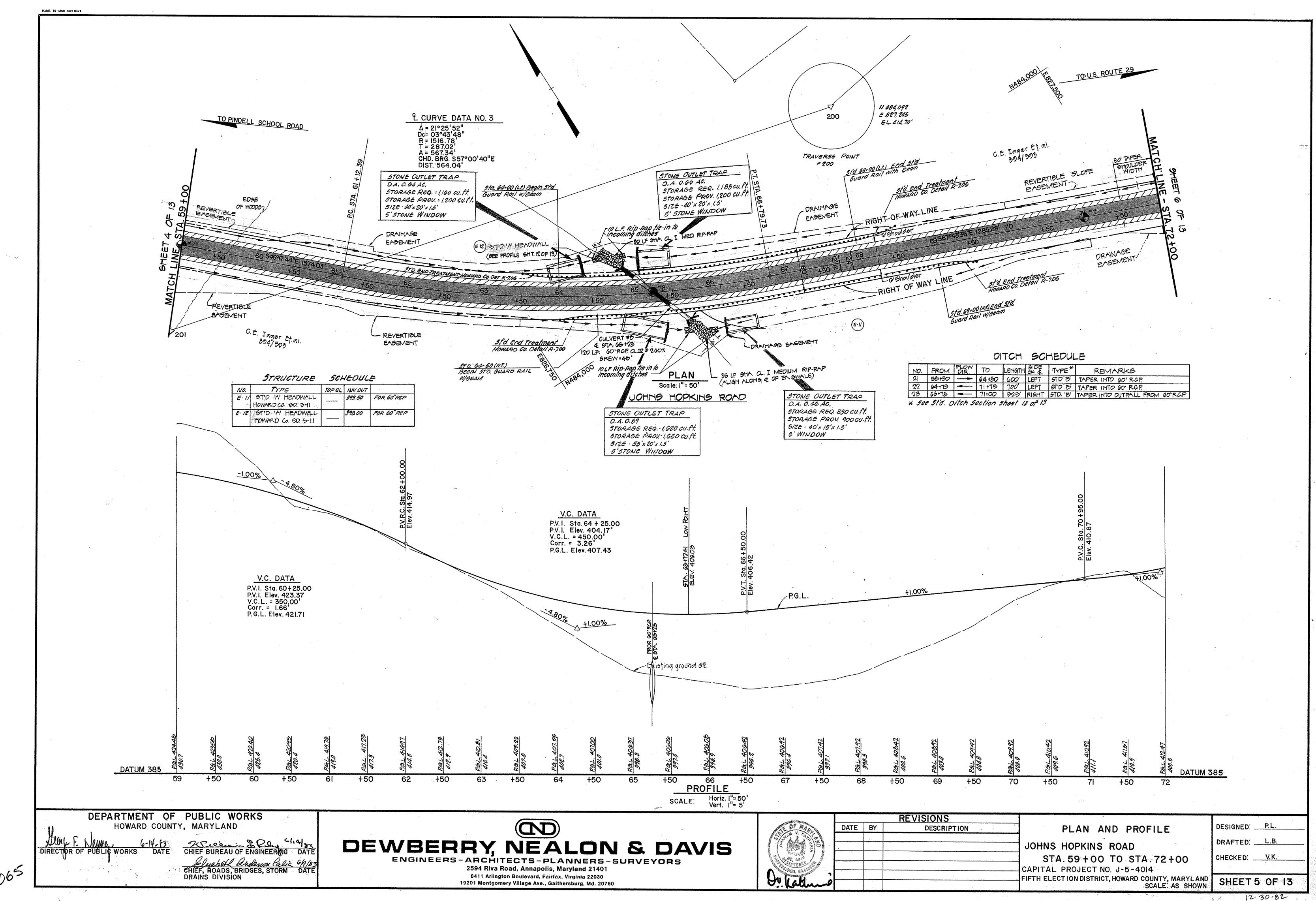
CHECKED: V.K. APITAL PROJECT NO. J-5-4014 TH ELECTION DISTRICT, HOWARD COUNTY, MARYLAND SCALE: AS SHOWN

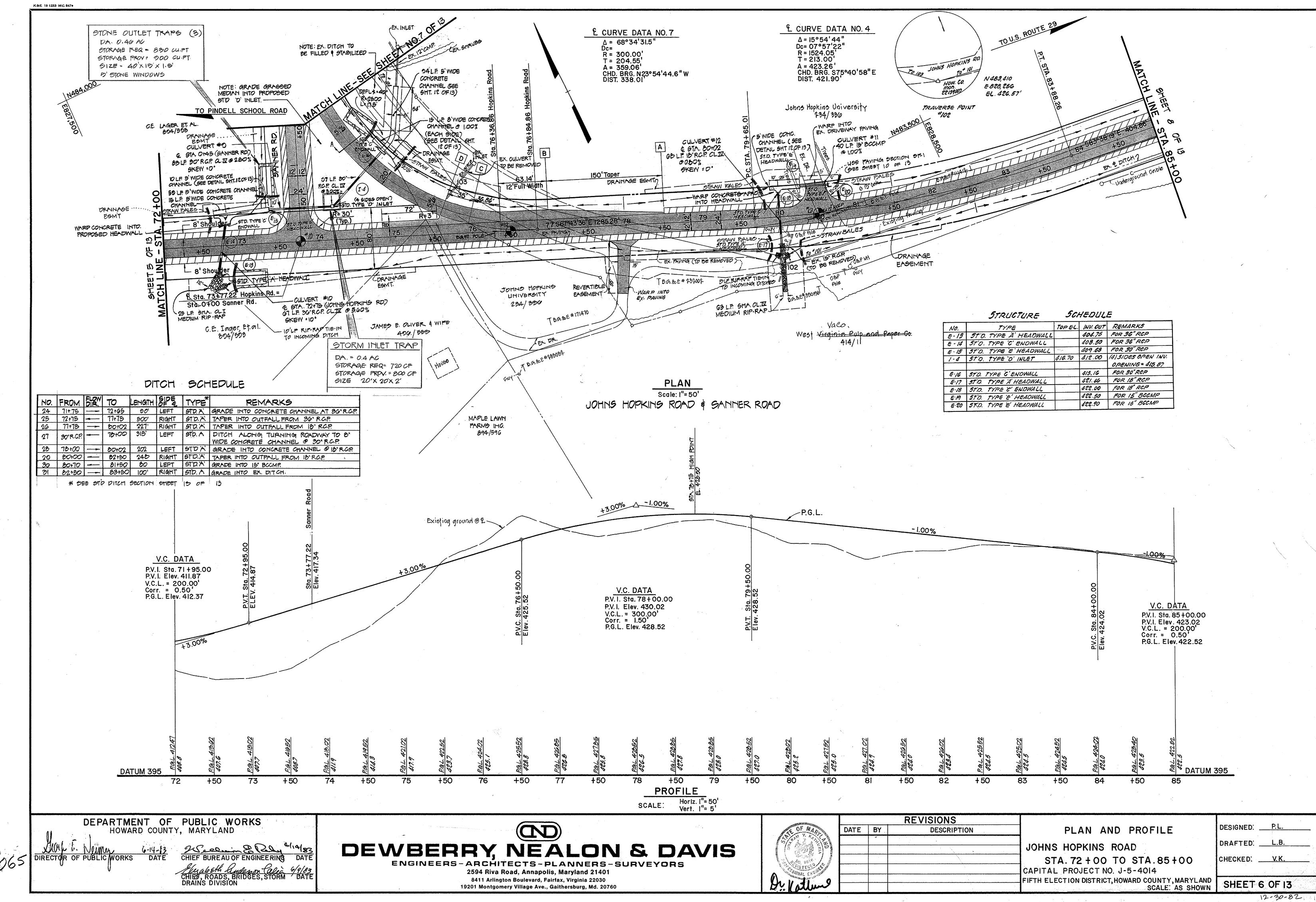
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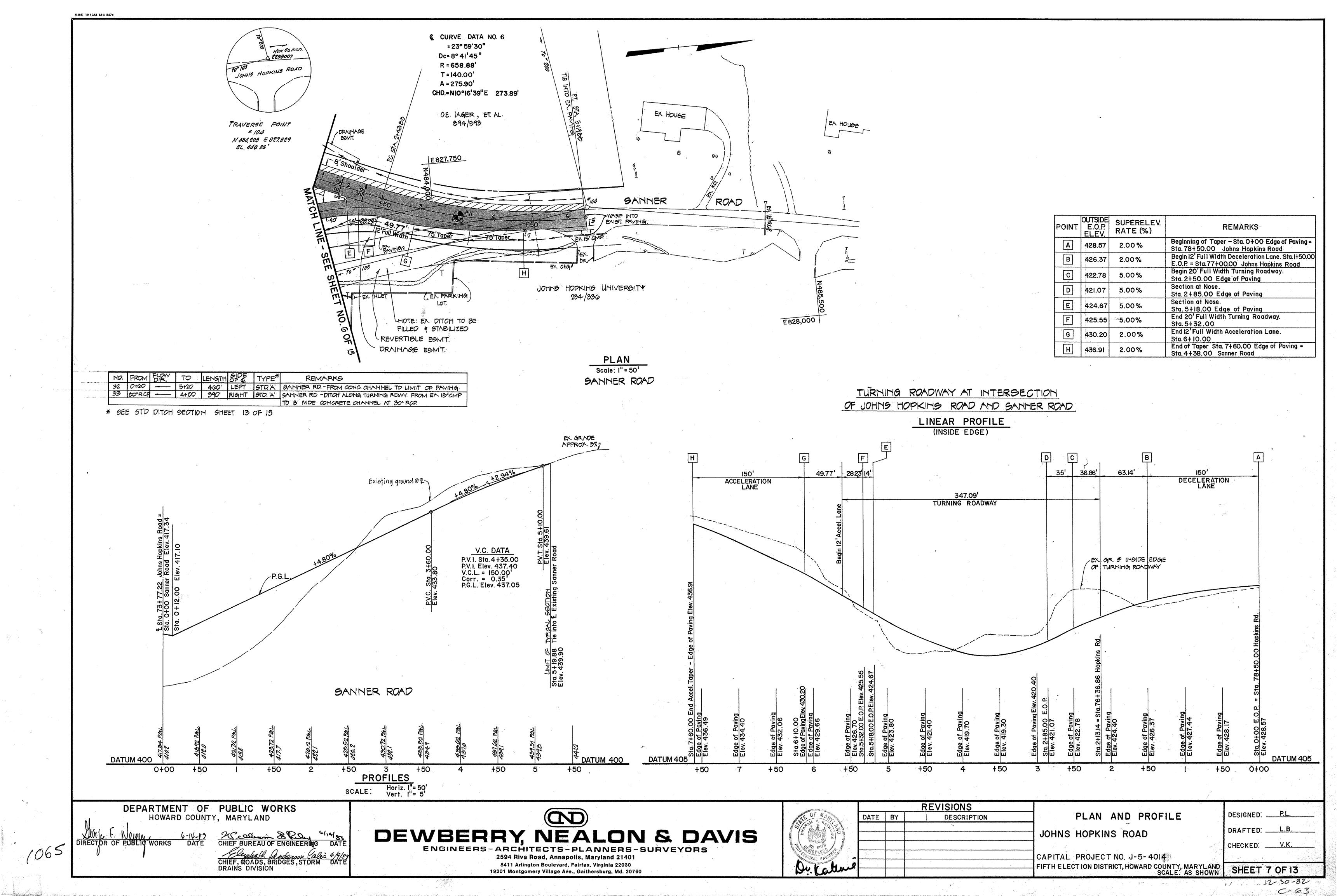


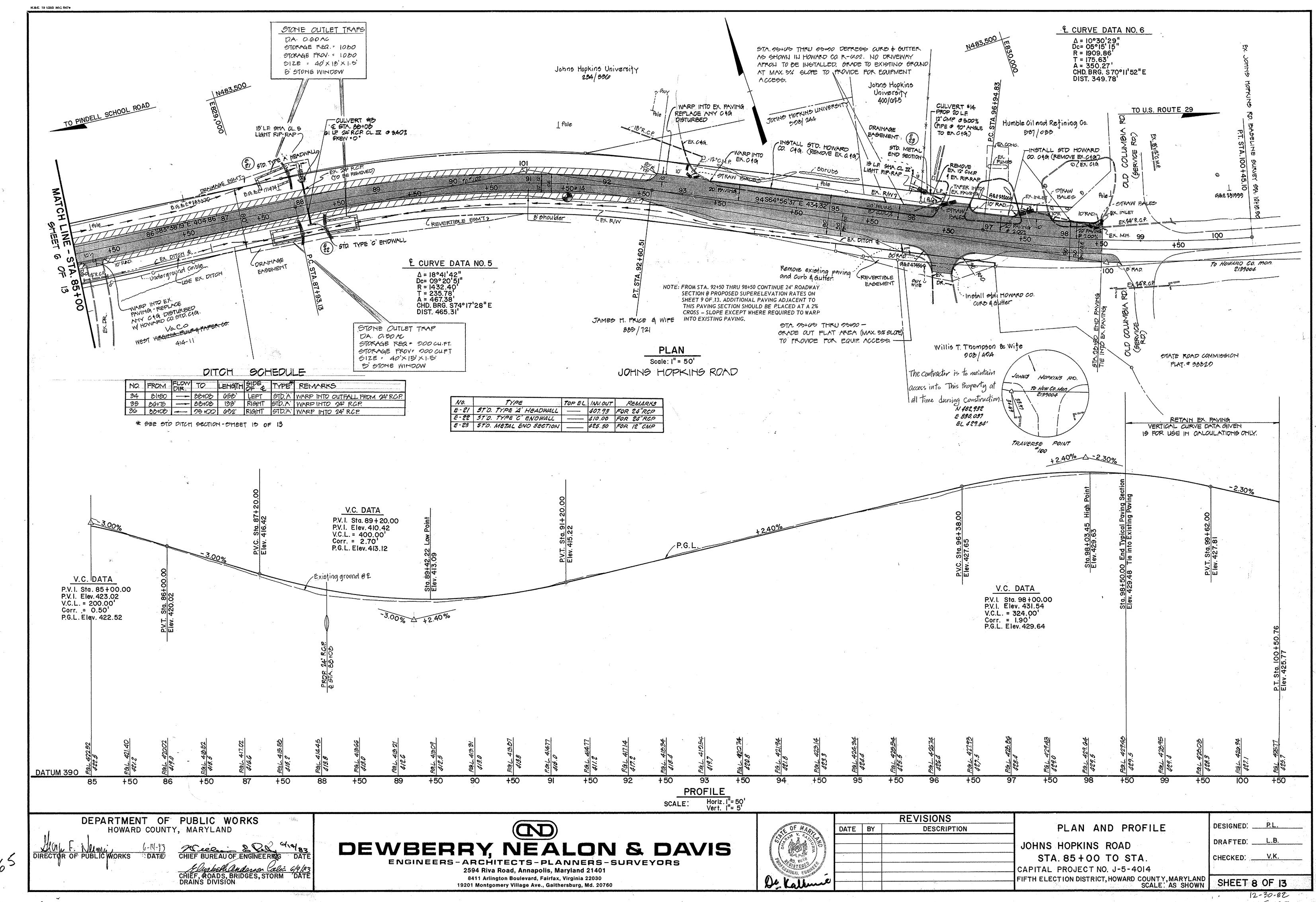


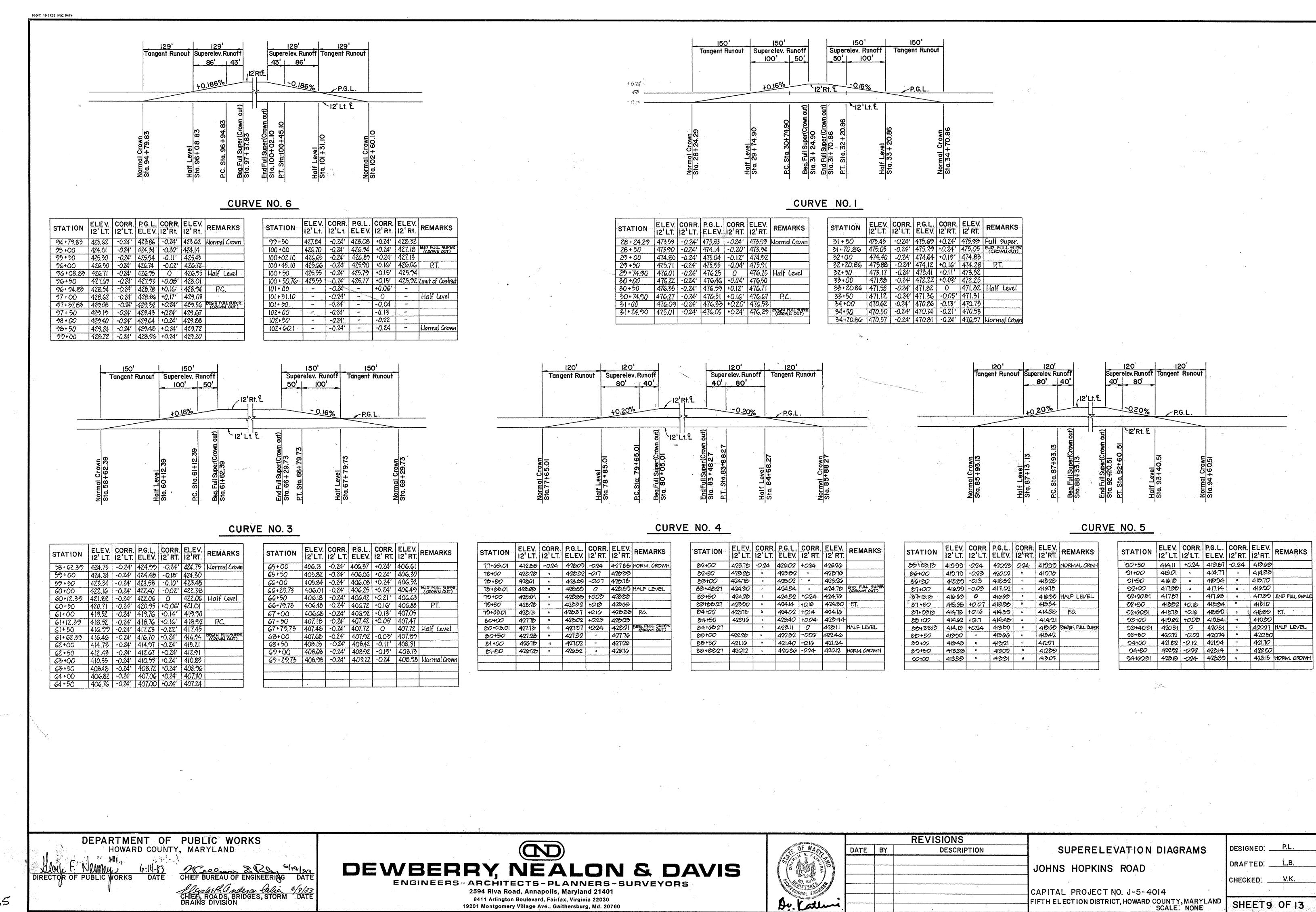




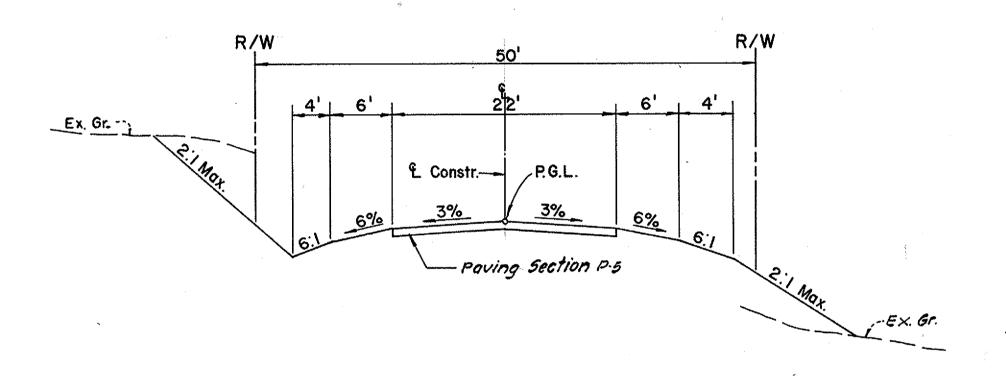
10-63



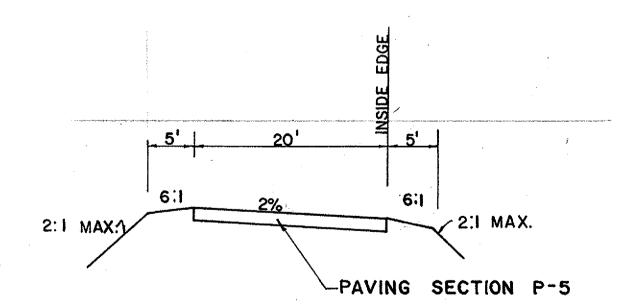




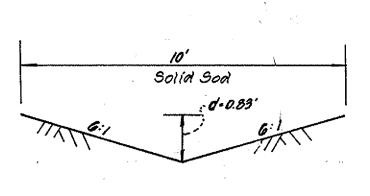
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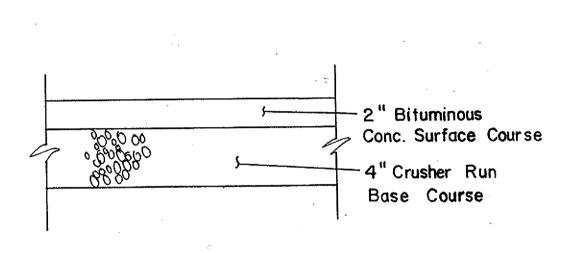
TYPICAL CROSS SECTION - OLD JOHNS HOPKINS ROAD NO SCALE



TYPICAL HALF SECTION - TURNING ROADWAY AT INTERSECTION OF JOHNS HOPKINS ROAD AND SANNER ROAD NO SCALE

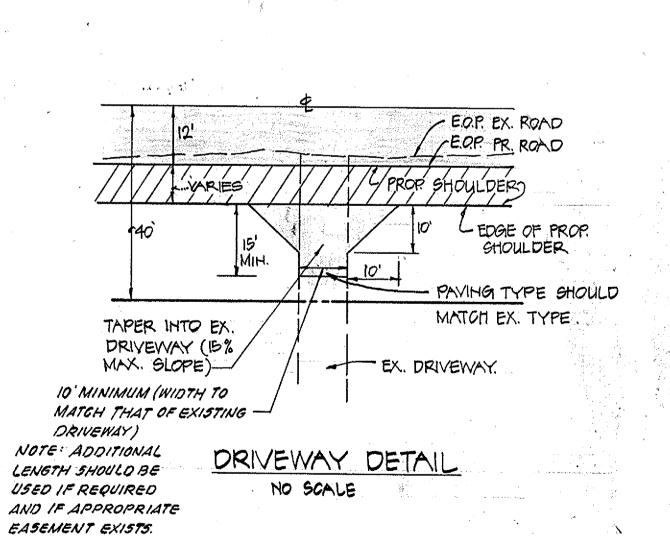


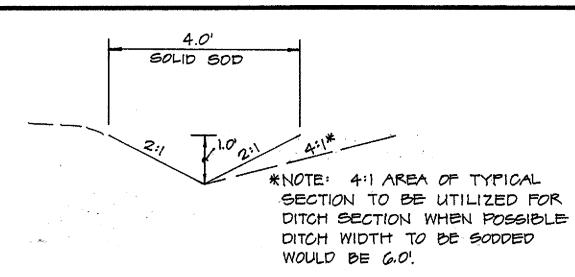
STANDARD DITCH A'



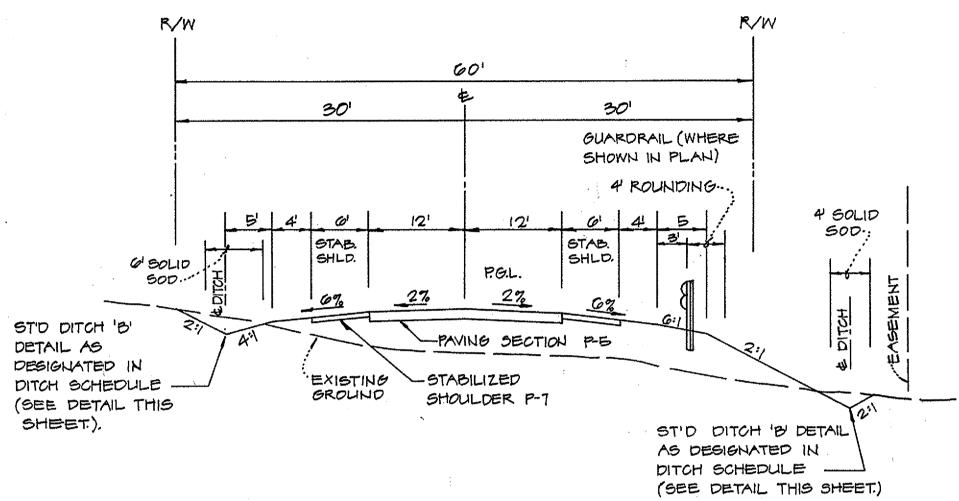
PAVING SECTION SP-1-To be used for driveways designated SP-1 in plan

NO SCALE





STANDARD DITCH 'B'

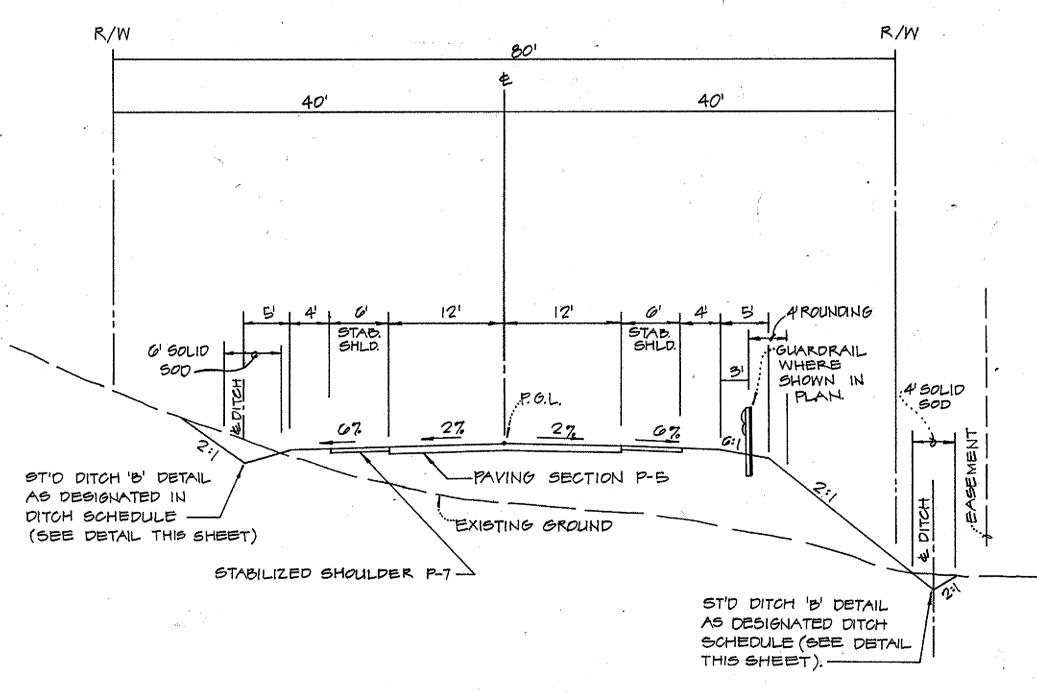


TYPICAL CROSS SECTION - JOHNS HOPKING ROAD

STA. 20+00 THRU STA. 42+50

STA. 56+70 THRU. STA. 72+00

no scale



TYPICAL CROSS SECTION - JOHNS HOPKING ROAD

STA. 42+50 THRU STA. 56+70

no scale

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

LIMIT 6-14-83
DIRECTOR OF PUBLIC WORKS DATE

CHIEF BUREAU OF ENGINEERING DATE

CHIEF, ROADS, BRIDGES, STORM DATE

DEWBERRY, NEALON & DAVIS

ENGINEERS-ARCHITECTS-PLANNERS-SURVEYORS
2594 Riva Road, Annapolis, Maryland 21401

2594 Riva Road, Annapolis, Maryland 21401 8411 Arlington Boulevard, Fairfax, Virginia 22030 19201 Montgomery Village Ave., Gaithersburg, Md. 20760



| | REVISIONS | | | | | | | | |
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PAVING SECTIONS & DETAILS

JOHNS HOPKINS ROAD

CAPITAL PROJECT NO. J-5-4014

FIFTH ELECTION DISTRICT, HOWARD COUNTY, MARYLAND SCALE: AS SHOWN

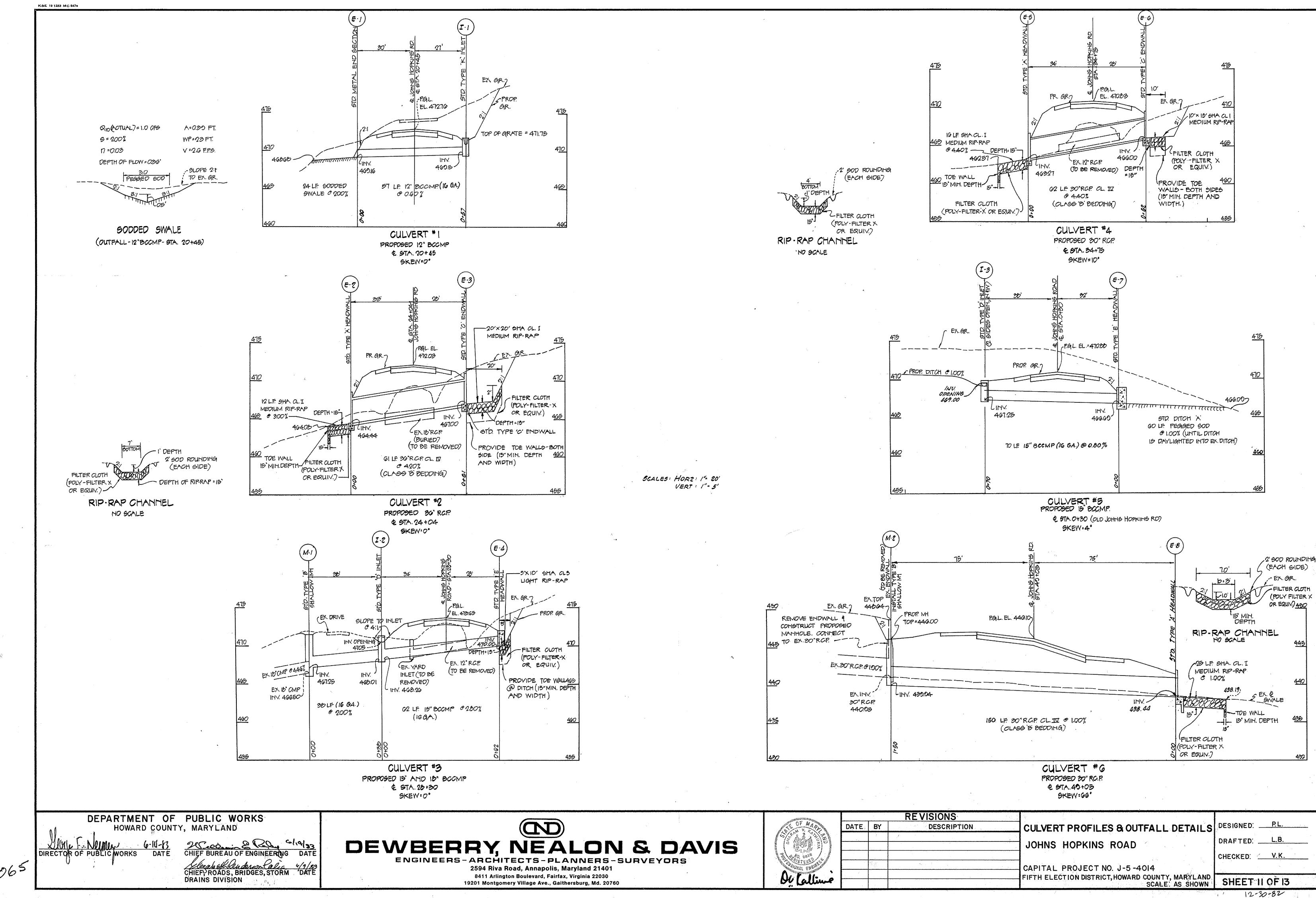
DRAFTED: L.B.

CHECKED: V.K.

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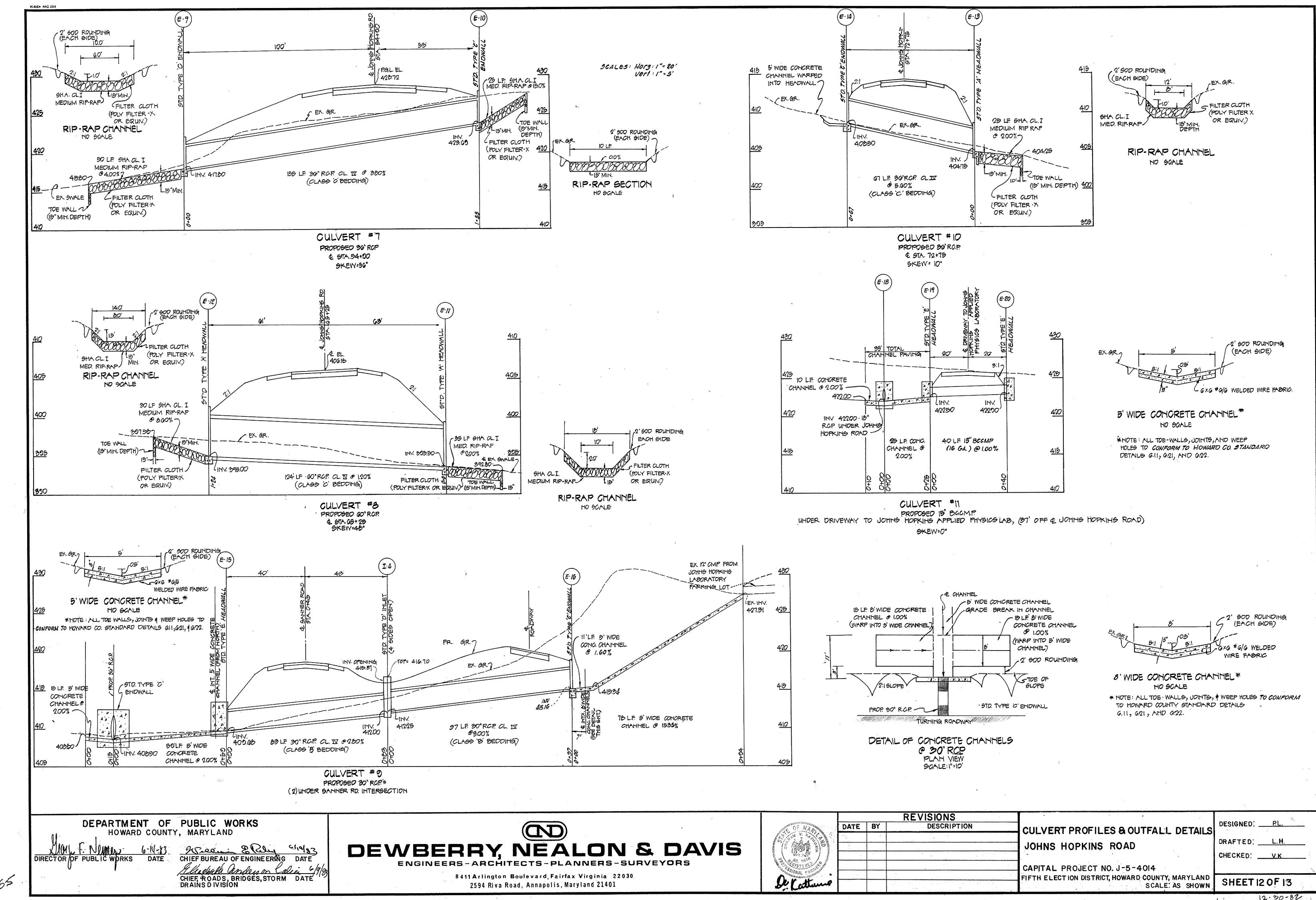
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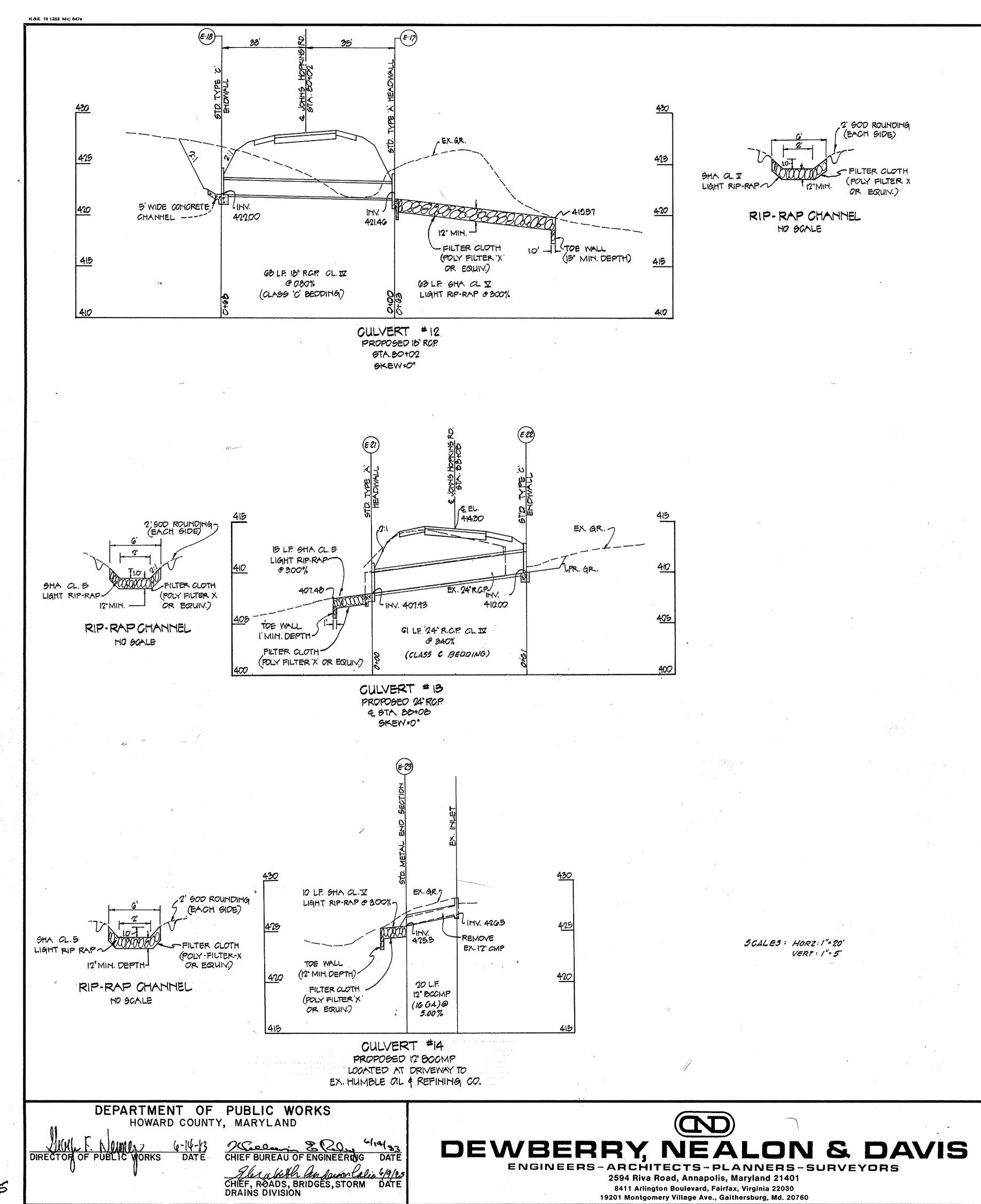
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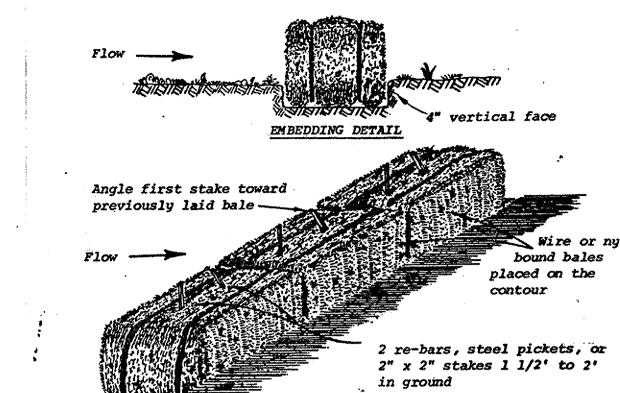


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STRAW BALE DIKE*



Construction Specifications

ANCHORING DETAIL

- 1. Bales shall be placed in a row with ends tightly abutting the adjacent bales.
- Each bale shall be embedded in the soil a minimum of 4". 3. Bales shall be securely anchored in place by stakes or re-bars
- driven through the bales. The first stake in each bale shall be angled toward previously laid bale to force bales together. 4. Inspection shall be frequent and repair or replacement shall be
- made promptly as needed. 5. Bales shall be removed when they have served their usefulness so

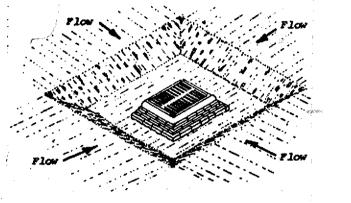
as not to block or impede storm flow or drainage.

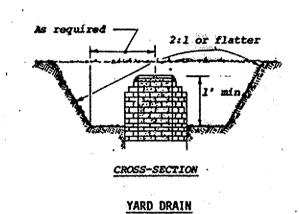
Standard Symbol

SEDIMENT CONTROL NOTES

- 1. THE DEVELOPER SHALL NOTIFY THE HOWARD COUNTY BUREAU OF INSPECTIONS AND PERMITS AT LEAST 24 HOURS PRIOR TO BEGINNING ANY CONSTRUCTION SHOWN HEREON. (992-2435).
- 2. BERMS, SEDIMENT TRAPS, ETC., TO BE CONSTRUCTED PRIOR TO ANY ON-SITE GRADING OR DISTURBANCE TO ANY EXISTING SURFACE MATERIAL, AND ARE TO BE STABILIZED AS SOON AS CONSTRUCTED.
- 3. ALL SEDIMENT CONTROL STRUCTURES TO REMAIN IN PLACE UNTIL PERMISSION. FOR THEIR REMOVAL HAS BEEN OBTAINED FROM THE HOWARD COUNTY BUREAU OF INSPECTIONS AND PERMITS. (9,92-24,35).
- 4. ALL GRADED AREAS NOT TO BE SODDED SHALL BE STABILIZED BY SEEDING AND MULCHING IN ACCORDANCE WITH SECTION 15.10 AND 15.11 OF THE "STANDARD SPECIFICATIONS & DETAILS FOR CONSTRUCTION" FOR HOWARD COUNTY. USE SEED MIX SPECIFIED FOR" UNIMPROVED AREAS NOT TO BE MOVED" AS DESCRIBED IN SECTION 15.10-2(C).
- ALL AREAS REMAINING OR INTENDED TO REMAIN DISTURBED FOR LONGER THEN 45 DAYS SHALL BE STABILIZED BY TEMPORARY SEEDING.
- 5. A GRADING PERMIT SHALL BE OBTAINED PRIOR TO ANY EARTH MOVING.

STORM INLET SEDIMENT TRAP





CONSTRUCTION SPECIFICATIONS

- 1. Sediment shall be removed and trap restored to its original dimensions when the sediment has accumulated to 1/2 the design depth of the trap. Removed sediment
- shall be deposited in a suitable area and in such a manner that it will not erode. 2. The structure shall be inspected after each rain and repairs made as needed. 3. Construction operations shall be carried out in such a manner that erosion and
- water pollution shall be minimized. 4. The sediment trap shall be removed
- area has been properly stabilized.
- 5. All cut and fill slopes shall be 2:1 or flatter.

REVISIONS DESIGNED: DATE | BY DESCRIPTION CULVERT PROFILES & OUTFALL DETAILS & SEDIMENT CONTROL DETAILS DRAFTED: ____L.B. JOHNS HOPKINS ROAD CHECKED: V.K. CAPITAL PROJECT NO. J-5-4014 FIFTH ELECTION DISTRICT, HOWARD COUNTY, MARYLAND SCALE. AS SHOWN SHEET 13 OF 13

12-30-82 C-630