

CHARLES J. CROVO'S CERTIFICATE
 I HEREBY CERTIFY THAT THE ABOVE WORKABLE 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.

Charles J. Crovo, Sr. 3/20/87
 CHARLES J. CROVO, SR.

DEVELOPER'S CERTIFICATE
 I HEREBY 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 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. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD COUNTY SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS AS ARE DEEMED NECESSARY.

James M. Nelson 3-17-87
 THE BRIGHTON GROUP DATE

APPROVED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND CITY OF BRIGHTON
 James M. Nelson 5-26-87
 U.S. SOIL CONSERVATION SERVICE

APPROVED FOR EROSION AND SEDIMENT CONTROL BY THE HOWARD COUNTY SOIL CONSERVATION DISTRICT
 Charles J. Crovo, Sr. 5-26-87
 U.S. SOIL CONSERVATION SERVICE

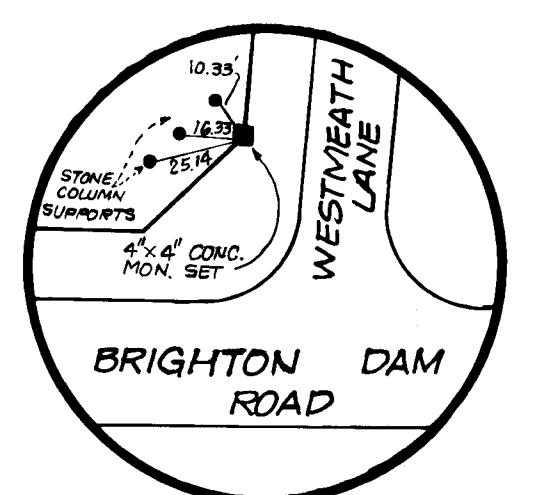
GENERAL NOTES
 1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH HOWARD COUNTY STANDARDS, SPECIFICATIONS AND DETAILS FOR CONSTRUCTION.
 2. ALL UTILITY COMPANIES MUST BE NOTIFIED 24 HOURS IN ADVANCE OF ANY CONSTRUCTION.
 3. STORM DRAINAGE TRENCHES WITHIN ROAD RIGHTS-OF-WAY SHALL BE BACKFILLED AND COMPACTED IN ACCORDANCE WITH HOWARD COUNTY ROAD CODE.
 4. ANY DAMAGE TO PUBLIC RIGHTS-OF-WAY SHALL BE AT THE CONTRACTOR'S EXPENSE.
 5. CONTRACTOR TO NOTIFY THE HOWARD COUNTY INSPECTION AND SURVEY DIVISION AT LEAST 3 DAYS BEFORE STARTING WORK SHOWN ON THESE DRAWINGS - TELEPHONE = 792-7272.
 6. TRAFFIC CONTROL DEVICES SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, 1978 EDITION.

APPROVED DEPARTMENT OF PUBLIC WORKS
 Charles J. Crovo, Sr. 5-1-87
 CIVIL ENGINEERING DATE

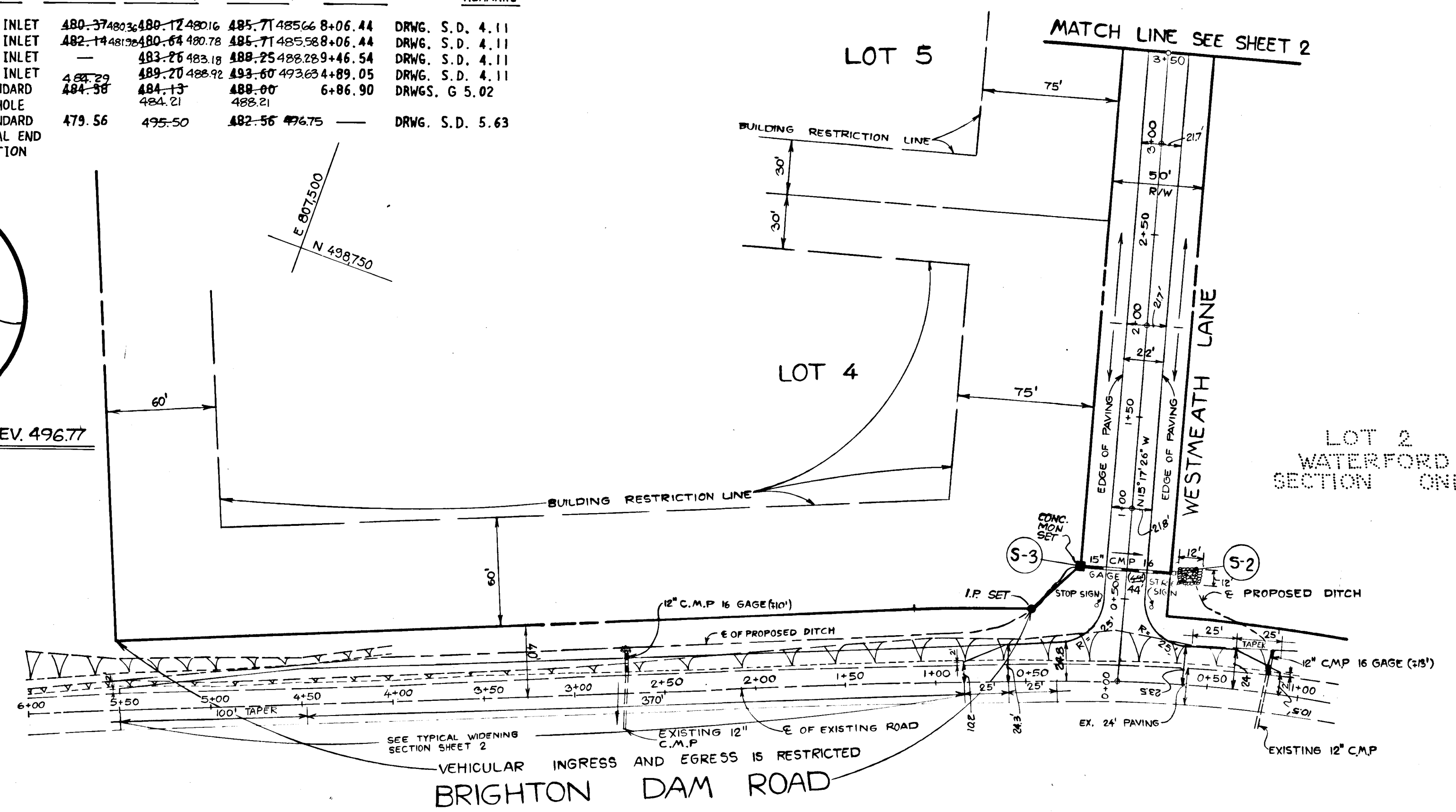
APPROVED OFFICE OF PLANNING AND ZONING
 John M. Murchison 5-26-87
 PLANNING AND ZONING ADMINISTRATION DATE

STRUCTURE SCHEDULE

STRUCTURE	TYPE	INVERT IN	INVERT OUT	TOP ELEV.	STATION	REMARKS
I-1	D' INLET	480-37	480-17	485.71	8+06.44	DRWG. S. D. 4.11
I-2	D' INLET	482-14	480-64	485.71	8+06.44	DRWG. S. D. 4.11
I-3	D' INLET	483-26	483.19	488.25	488.289+46.54	DRWG. S. D. 4.11
I-4	D' INLET	488-29	489-20	488.92	493.634+89.05	DRWG. S. D. 4.11
MH-1	STANDARD MANHOLE	484-38	484-13	488.00	6+86.90	DRWGS. G 5.02
S-2	STANDARD METAL END SECTION	479.56	495-50	482-55	496.75	DRWG. S. D. 5.63

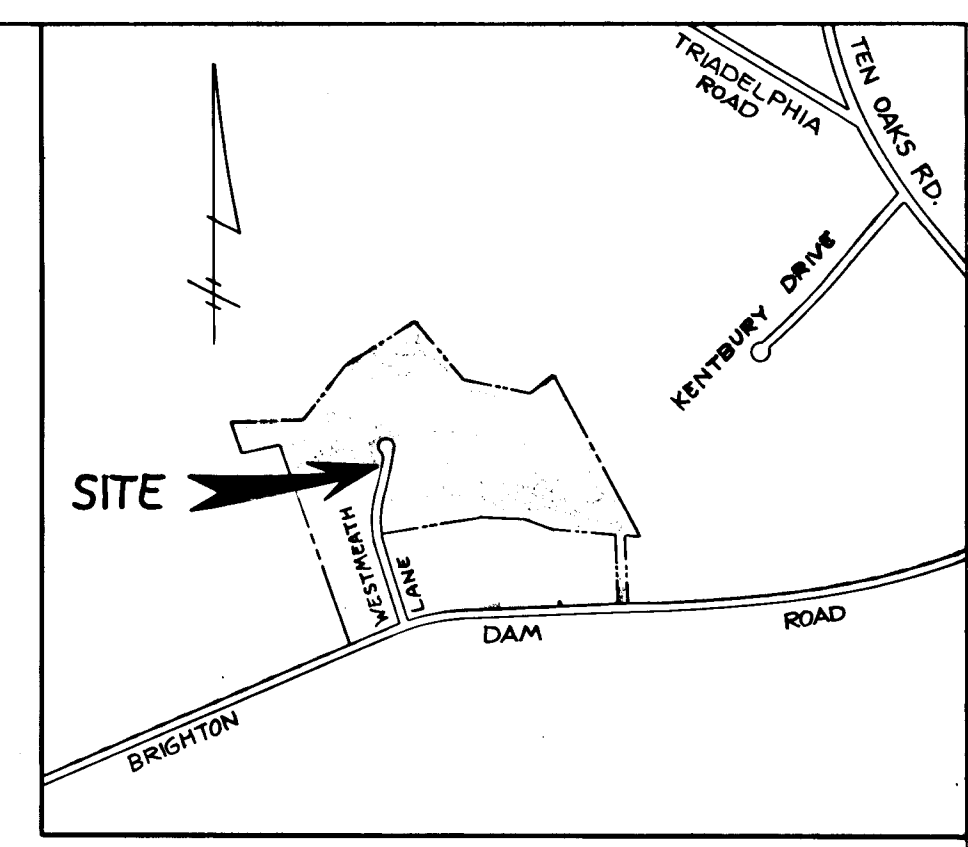
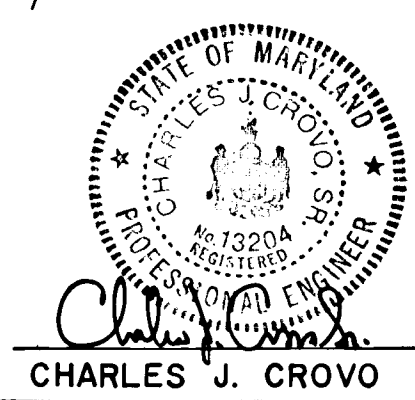


B.M. MON.-33 ELEV. 496.77
 4'x4' CONC. MON.



PLAN
 SCALE: 1" = 50'

AS-BUILT SURVEY CERTIFIED BY
 CHARLES J. CROVO, M.D. P.E. No. 13204, ON 10-31-88



VICINITY MAP
 SCALE: 1" = 1200'

BENCH MARKS
 BM No. 1 ELEV. 496.68
 HO. CO. CONTROL STATION 2535008-R

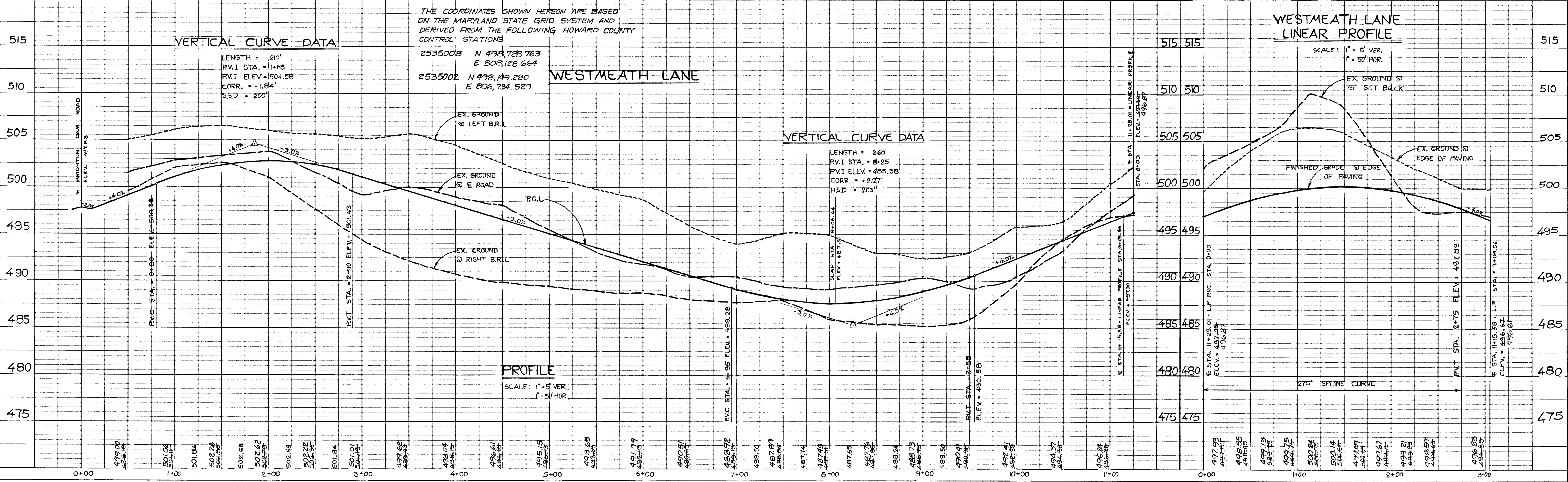
WATERFORD SECTION THREE LOTS 4-14
 5TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND

WESTMEATH LANE PLAN & PROFILE

OWNER AND DEVELOPER
 THE BRIGHTON GROUP
 SUITE E 304
 5570 STERRETT PLACE
 COLUMBIA, MARYLAND 21044

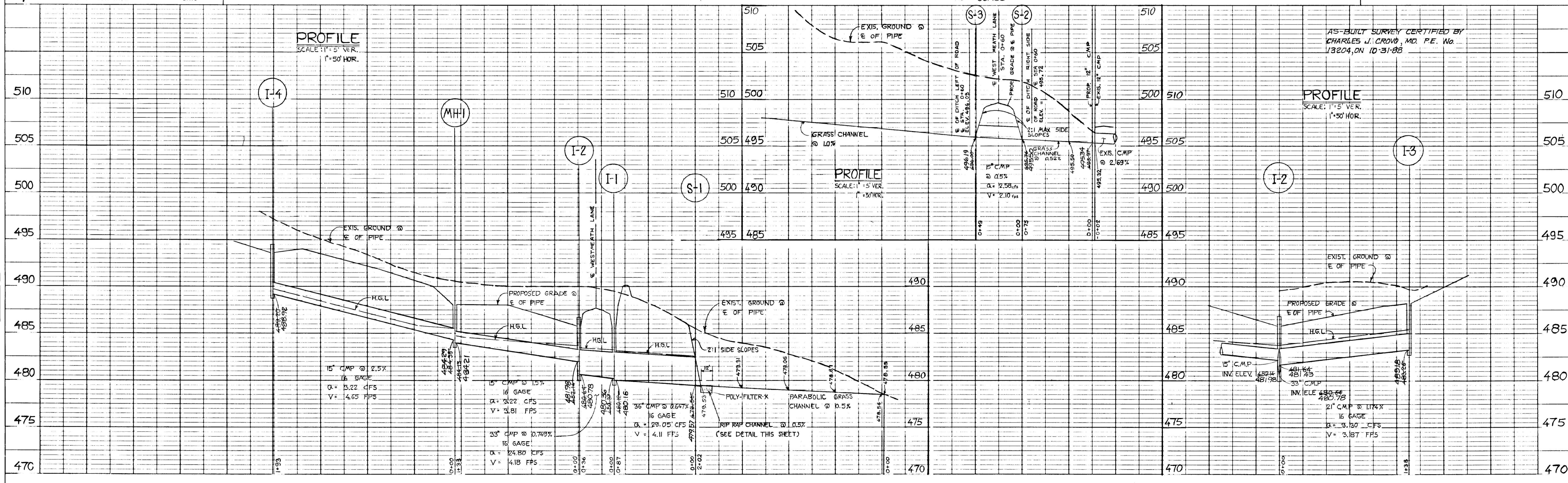
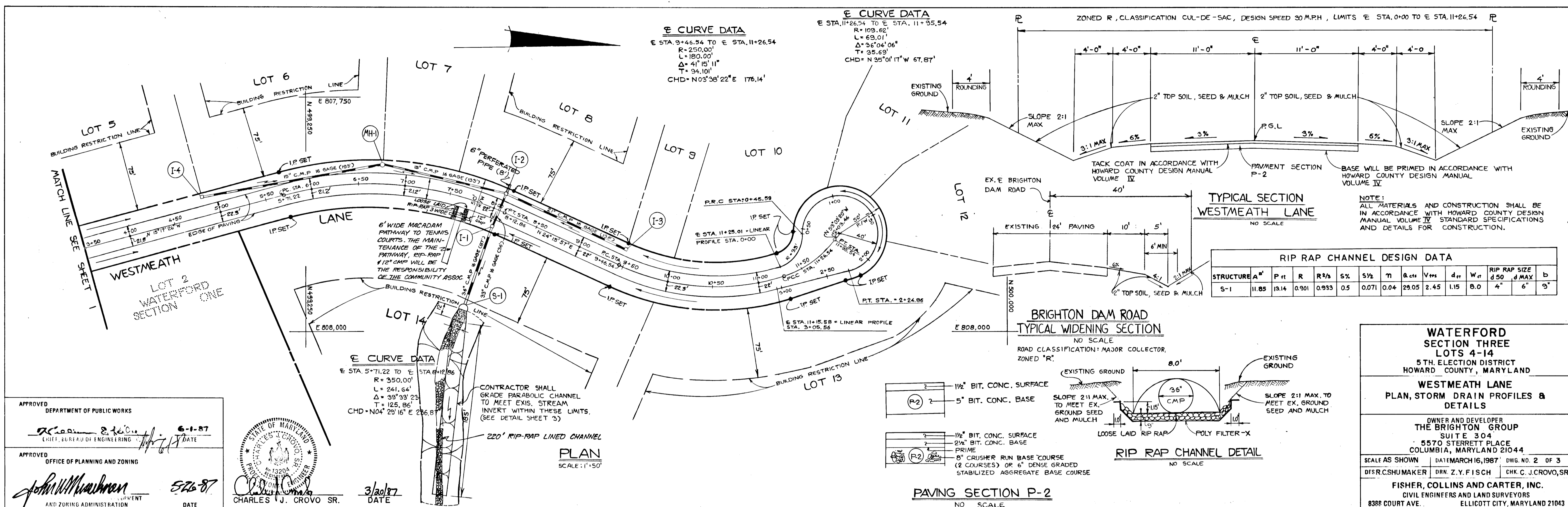
SCALE AS SHOWN DATE: MARCH 16, 1987 DWG. NO. 1 OF 3
 DESIGNED BY: C. SHUMAKER DRAWN BY: Z. FISCH CHECKED BY: C. J. CROVO, SR.

FISHER, COLLINS AND CARTER, INC.
 CIVIL ENGINEERS AND LAND SURVEYORS
 8388 COURT AVE. ELLICOTT CITY, MARYLAND 21043



1267

DATE
BY
SURVEYED
PLOTTED
ALIGNED
CHECKED
NOTE BOOK NO.



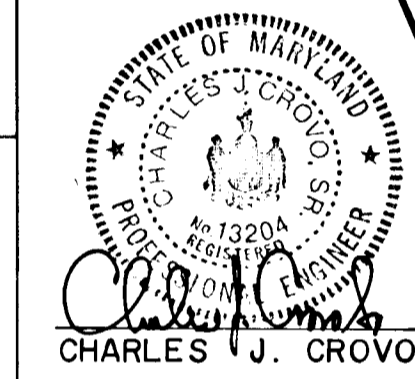
APPROVED
DEPARTMENT OF PUBLIC WORKS

Charles J. Crovo 6-1-87
CHIEF, BUREAU OF ENGINEERING

APPROVED
OFFICE OF PLANNING AND ZONING

John W. M... .. 5/26/87
COMMITTEE MEMBER

DATE



WATERFORD SECTION THREE LOTS 4-14
5TH. ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

WESTMEATH LANE
PLAN, STORM DRAIN PROFILES & DETAILS

OWNER AND DEVELOPER
THE BRIGHTON GROUP
SUITE 304
5570 STERRETT PLACE
COLUMBIA, MARYLAND 21044

SCALE AS SHOWN DATE MARCH 16, 1987 DWG. NO. 2 OF 3
DESIGNER CSHUMAKER DRN. Z.Y.F I S CH CHK. C. J. CROVO, SR.

FISHER, COLLINS AND CARTER, INC.
CIVIL ENGINEERS AND LAND SURVEYORS
8388 COURT AVE. ELLICOTT CITY, MARYLAND 21043

SEEDING NOTES:

- 1) A MINIMUM OF 24 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY OFFICE OF INSPECTIONS AND PERMITS PRIOR TO THE START OF ANY CONSTRUCTION (392-2437).
- 2) ALL VEGETATIVE AND STRUCTURAL PRACTICES ARE TO BE INSTALLED ACCORDING TO THE PROVISIONS OF THIS PLAN AND ARE TO BE IN CONFORMANCE WITH THE 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.
- 3) FOLLOWING INITIAL SOIL DISTURBANCE OR RESTORATION, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN: a) 7 CALENDAR DAYS FOR ALL PERIMETER SEDIMENT CONTROL STRUCTURES, DIKES, PERIMETER SLOPES AND ALL SLOPES GREATER THAN 3:1; b) 14 DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.
- 4) ALL DISTURBED AREAS MUST BE STABILIZED WITHIN THE TIME PERIOD SPECIFIED ABOVE IN ACCORDANCE WITH THE 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR PERMANENT SEEDINGS (SEC. 51) SOE (SEC. 54), TEMPORARY SEEDING (SEC. 50) AND MULCHING (SEC. 52). TEMPORARY STABILIZATION WITH MULCH ALONE CAN ONLY BE DONE WHEN RECOMMENDED SEEDING DATES DO NOT ALLOW FOR PROPER GERMINATION AND ESTABLISHMENT OF GRASS.
- 5) ALL SEDIMENT CONTROL STRUCTURES ARE TO REMAIN IN PLACE AND ARE TO BE MAINTAINED IN OPERATIVE CONDITION UNTIL PERMISSION FOR THEIR REMOVAL HAS BEEN OBTAINED FROM THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.

SITE ANALYSIS:

TOTAL AREA OF SITE	52.6	ACRES
AREA DISTURBED	2.70	ACRES
AREA TO BE ROOFED OR PAVED	0.33	ACRES
AREA TO BE VEGETATIVELY STABILIZED	2.77	ACRES
TOTAL FILL	0.00	CU. YDS.
OFFSITE WASTE/BORROW AREA LOCATION		CU. YDS.

CONSTRUCTION SEQUENCE:

1. OBTAIN GRADING PERMIT.
2. CONSTRUCT STONE CONSTRUCTION ENTRANCE.
3. CONSTRUCT RIP-RAP OUTLET SEDIMENT TRAP.
4. INSTALL SILT FENCE OR STRAW BALE DIKES AND EARTH DIKES AS SHOWN ON THIS SHEET.
5. CLEAR BRIGHTON DAM ROAD AND WESTMEATH LANE.
6. CONSTRUCT STORM DRAIN SYSTEM FROM S-1 TO S-4 AND EXTEND THE EXISTING 12" CMPS IN BRIGHTON DAM ROAD.
7. INSTALL SWALE INLET PROTECTION AT S-1 THROUGH S-4.
8. PLACE BRIGHTON DAM ROAD WESTMEATH LANE TO SURGRADE.
9. CONSTRUCT GRAVEL SHOULDER ALONG BRIGHTON DAM ROAD AND LAY BASE COURSE ON WESTMEATH LANE.
10. CONSTRUCT GRASS CHANNEL PROTECTION AT S-1 THROUGH S-4.
11. GRADE SLOPE AREAS BETWEEN EXISTING CONTOUR AND EDGE OF PAVING.
12. UPON STABILIZATION OF GRADED AREAS, INITIAL SEEDING OF PERMANENT AND ALL ACCUMULATED SEDIMENT SHALL BE REMOVED FROM THE STORM DRAIN SYSTEM.
13. DURING CONSTRUCTION, SEDIMENT SHALL BE REMOVED FROM THE WHEN THE CLEANOUT ELEVATION HAS RIP-RAP OUTLET SEDIMENT TRAP BEEN REACHED.
14. REMOVE STONE CONSTRUCTION ENTRANCE.
15. INSTALL RIP-RAP CHANNEL AT S-1.
16. CLEAN BASE COURSE. APPLY TACK COAT TO BASE COURSE AND LAY SURFACE COURSE. STABILIZE ALL SHOULDERS USING PERMANENT SEEDING.
17. REMOVE EARTH DIKE, SILT FENCE AND STRAW BALE DIKES ONCE DISTURBED AREAS HAVE BEEN STABILIZED.
18. ALL DISTURBED AREAS DUE TO REMOVAL OF SEDIMENT CONTROL MEASURES SHALL BE GRADED AND STABILIZED BY PERMANENT SEEDING.
19. FOLLOWING INITIAL SOIL DISTURBANCE OR RESTORATION, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN: a) 7 CALENDAR DAYS FOR ALL PERIMETER SEDIMENT CONTROL STRUCTURES, DIKES, SLOPES, DISTURBED PERIMETER SLOPES AND ALL SLOPES GREATER THAN 3:1; b) 14 DAYS FOR ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.
20. NOTIFY HOWARD COUNTY OFFICE OF INSPECTION AND PERMITS FOR FINAL INSPECTION AT DURATION OF PROJECT.

PERMANENT SEEDING NOTES:

APPLY TO GRADED OR CLEARED AREAS TO IMMEDIATELY FURTHER DISTURBANCE WHERE A PERMANENT LONG-LIVED VEGETATIVE COVER IS NEEDED.

SEED PREPARATION: LOOSEN UPPER THREE-INCHES OF SOIL BY RAKING, DISCING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING.

SOIL AMENDMENTS: IN MEANS OF SOIL TEST RECOMMENDATIONS, USE ONE OF THE FOLLOWING SCHEDULE.

- 1) PREFERRED - APPLY 2 TONS PER ACRE DILOMITIC LIMESTONE (97 LBS/1000 SQ. FT.) AND 600 LBS PER ACRE 10-10-10 FERTILIZER (14 LBS/1000 SQ. FT.) BEFORE SEEDING.
- 2) ACCEPTABLE - APPLY 2 TONS PER ACRE DILOMITIC LIMESTONE (97 LBS/1000 SQ. FT.) AND 1000 LBS PER ACRE 10-10-10 FERTILIZER (23 LBS/1000 SQ. FT.) BEFORE SEEDING. HARROW OR DISC INTO UPPER THREE-INCHES OF SOIL.

SEEDING: FOR THE PERIODS MARCH 1 THRU APRIL 30, AND AUGUST 1 THRU OCTOBER 31, SEED WITH 50 LBS PER ACRE (1.4 LBS/1000 SQ. FT.) OF ANNUAL RYEGRASS (31 TALL FESCUE) FOR THE PERIOD MAY 1 THRU JULY 31, SEED WITH 40 LBS PER ACRE (1.1 LBS/1000 SQ. FT.) OF ANNUAL RYEGRASS (31 TALL FESCUE) FOR THE PERIOD AUGUST 1 THRU OCTOBER 31, SEED WITH 3 LBS PER ACRE (0.5 LBS/1000 SQ. FT.) OF WHEAT OR WHEATGRASS. DURING THE PERIOD OF OCTOBER 1 THRU FEBRUARY 28, PROJECT SITE BY APPLYING 2 TONS PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING. OPTION (3) SEED WITH 60 LBS PER ACRE ANNUAL RYEGRASS (31 TALL FESCUE) AND MULCH WITH 2 TONS PER ACRE WELL ANCHORED STRAW.

MULCHING: APPLY 1/2 TO 2 TONS PER ACRE (70 TO 90 LBS/1000 SQ. FT.) OF UNBLENDED SMALL GRAIN STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 218 GALLONS PER ACRE (6 GAL/1000 SQ. FT.) OF ANCHORING FLUID OR 114 GALLONS PER ACRE OF SLOPE'S 8:1 OR HIGHER, USE 348 GALLONS PER ACRE (6 GAL/1000 SQ. FT.) FOR ANCHORING.

MAINTENANCE: INSPECT ALL SEEDING AREAS AND MAKE NEEDED REPAIRS, REPLACEMENTS AND RESEEDINGS.

APPLY TO GRADED OR CLEARED AREAS LIKELY TO BE RESTORED WHERE A SHORT TERM VEGETATIVE COVER IS NEEDED.

TEMPORARY SEEDING NOTES:

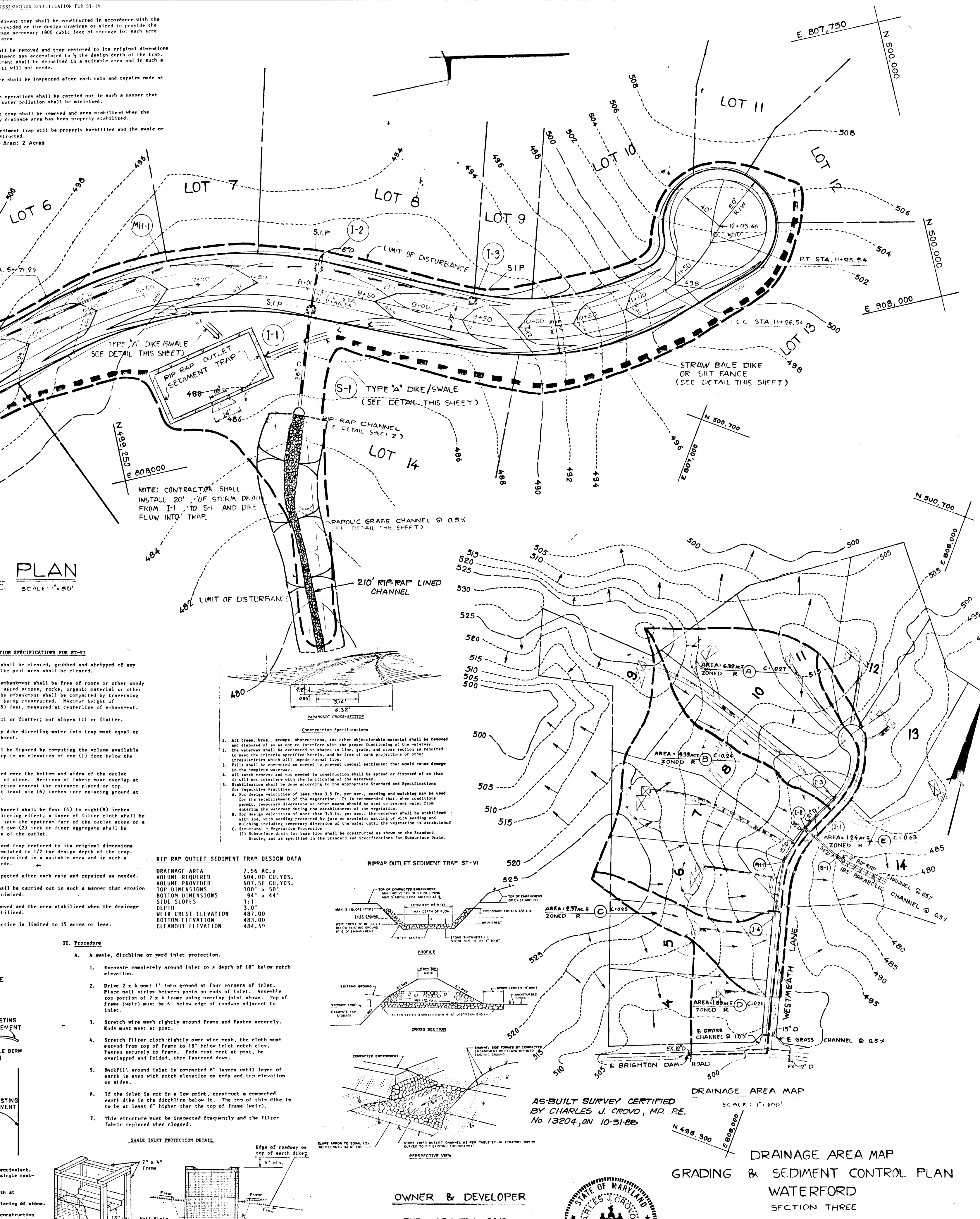
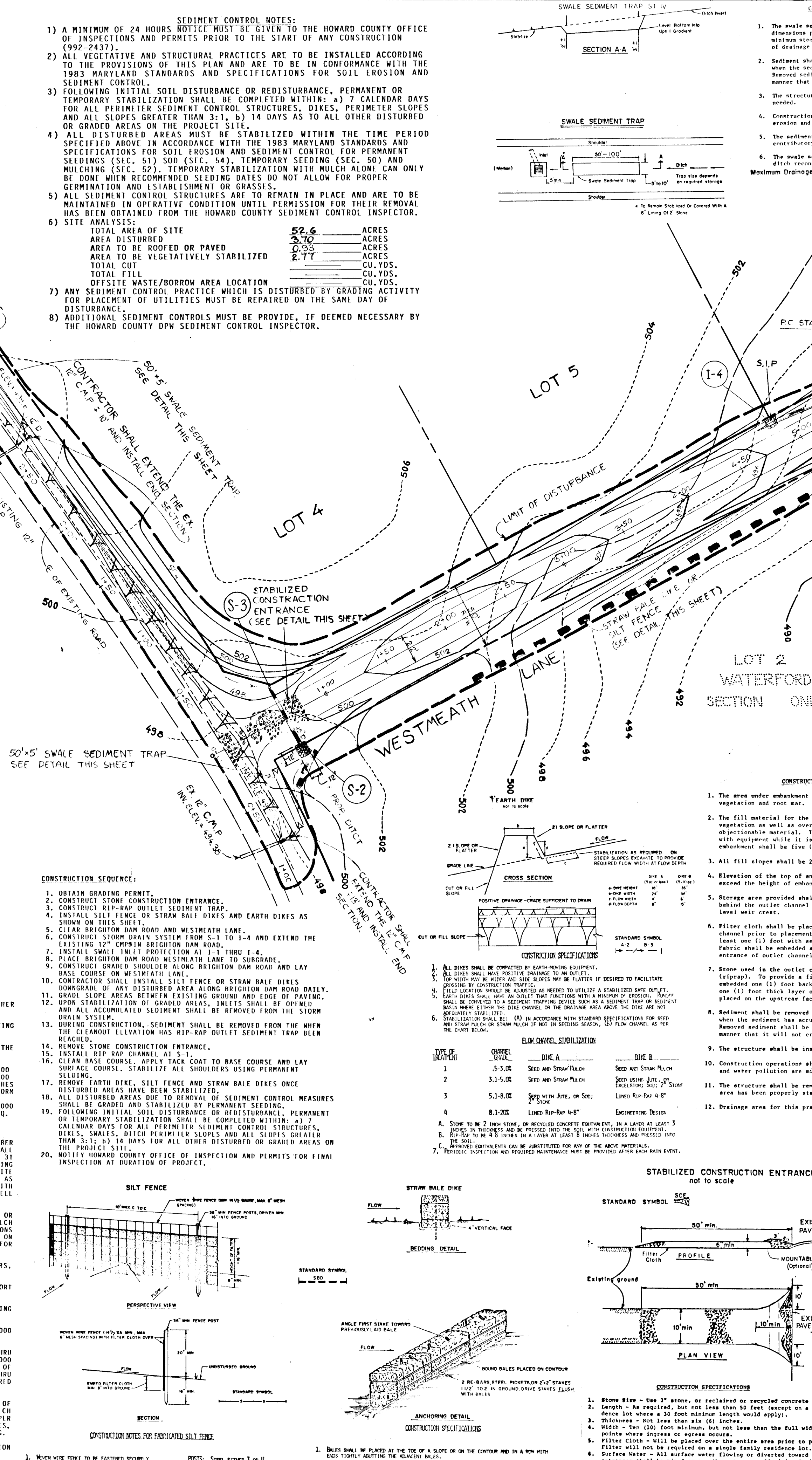
SEED PREPARATION: LOOSEN UPPER THREE-INCHES OF SOIL BY RAKING, DISCING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING.

SOIL AMENDMENTS: APPLY 600 LBS PER ACRE 10-10-10 FERTILIZER (14 LBS/1000 SQ. FT.).

SEEDING: FOR PERIODS MARCH 1 THRU APRIL 30 AND FROM AUGUST 15 THRU NOVEMBER 15, SEED WITH 21 BUSHEL PER ACRE OF ANNUAL RYEGRASS (1.7 LBS/1000 SQ. FT.). FOR THE PERIOD MAY 1 THRU AUGUST 14, SEED WITH 3 LBS PER ACRE OF WHEATGRASS (0.6 LBS/1000 SQ. FT.). FOR THE PERIOD NOVEMBER 16 THRU FEBRUARY 28, PROJECT SITE BY APPLYING 2 TONS PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING, OR USE SOE.

MULCHING: APPLY 1/2 TO 2 TONS PER ACRE (70 TO 90 LBS/1000 SQ. FT.) OF UNBLENDED SMALL GRAIN STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 218 GAL PER ACRE (6 GAL/1000 SQ. FT.) OF ANCHORING FLUID ON FLAT AREAS, ON SLOPES, 8:1, OR HIGHER, USE 348 GAL PER ACRE (6 GAL/1000 SQ. FT.) FOR ANCHORING.

REFER TO THE 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR TAKE AND METHODS NOT COVERED.



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COLUMBIA, MD 21044

AS-BUILT 10-31-88