

ENGINEER'S CERTIFICATE
 I HEREBY 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.

Charles J. Crovo Sr. 7/1/86
 CHARLES J. CROVO SR.
 DATE

DEVELOPER'S CERTIFICATE
 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 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.

Ronald B. Carter 7/1/86
 RONALD B. CARTER
 DATE

REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.

John M. Hinch 12-31-86
 U.S. SOIL CONSERVATION SERVICE
 DATE

THIS DEVELOPMENT PLAN IS APPROVED FOR EROSION AND SEDIMENT CONTROL BY THE HOWARD COUNTY SOIL CONSERVATION DISTRICT.

John M. Hinch 12-31-86
 HOWARD COUNTY SOIL CONSERVATION DISTRICT
 DATE

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 HRS. IN ADVANCE OF ANY CONSTRUCTION.
3. STORM DRAINAGE TRENCHES WITHIN ROAD RIGHT-OF-WAYS SHALL BE BACKFILLED AND COMPACTED IN ACCORDANCE WITH HOWARD COUNTY ROAD CODE.
4. ANY DAMAGE TO PUBLIC RIGHT-OF-WAYS, PAVING, OR EXISTING UTILITIES WILL BE CORRECTED 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: 732-7272.
6. APPROXIMATE LOCATION OF EXISTING UTILITIES ARE SHOWN FOR THE CONTRACTOR'S INFORMATION. CONTRACTOR SHALL LOCATE EXISTING UTILITIES WELL IN ADVANCE OF CONSTRUCTION ACTIVITIES AND TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE EXISTING UTILITIES AND TO MAINTAIN UNINTERRUPTED SERVICE.
7. ALL TRAFFIC CONTROL DEVICES SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, 1978 EDITION.

APPROVED
 DEPARTMENT OF PUBLIC WORKS

William S. Paine 1-7-87
 CHIEF, BUREAU OF ENGINEERING
 DATE

APPROVED
 OFFICE OF PLANNING AND ZONING

John M. Hinch 12-31-86
 DATE

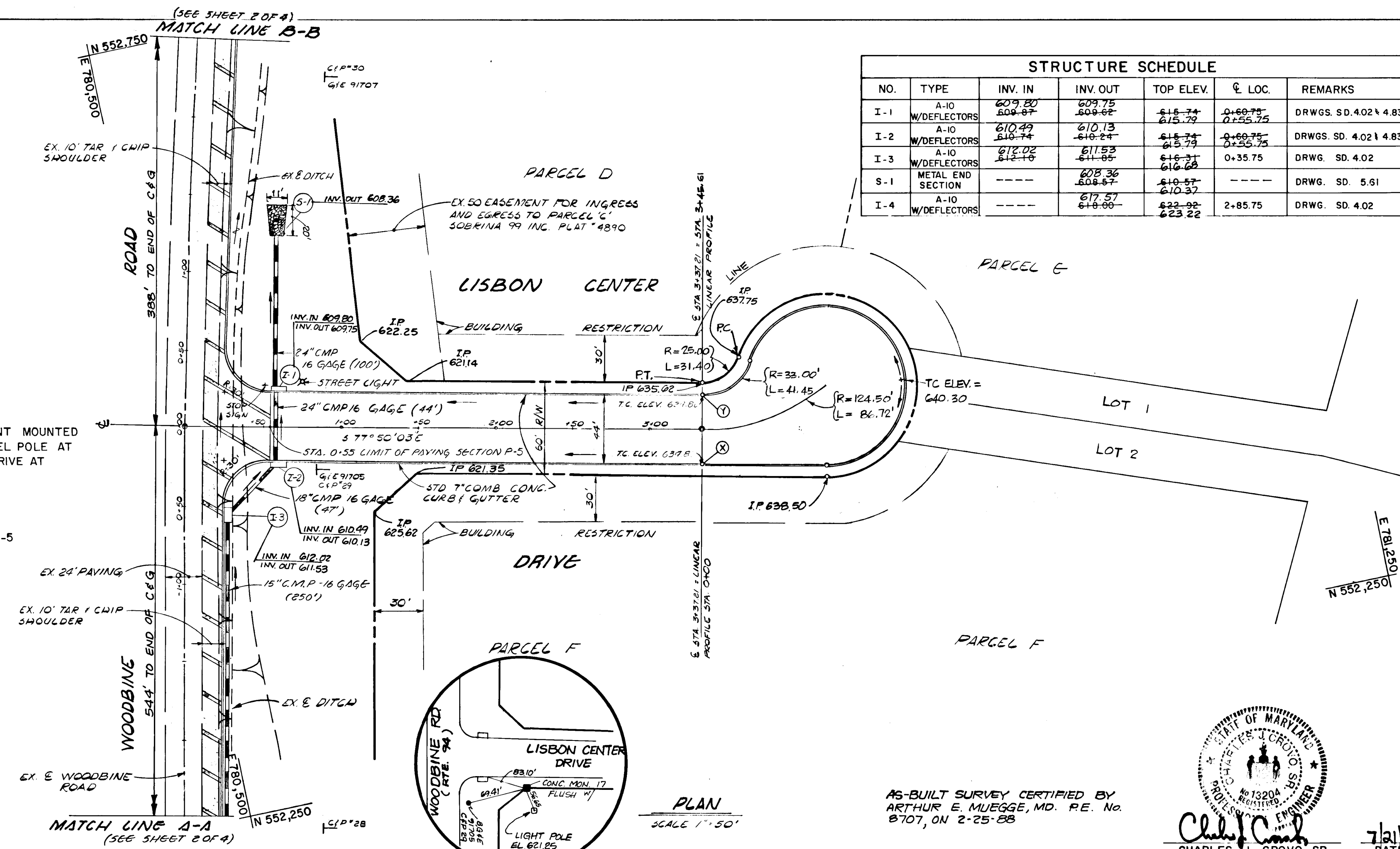
STREET LIGHT
 250-400-WATT MERCURY VAPOR LAMP PENDANT MOUNTED FIXTURE ON A 30-FOOT GALVANIZED STEEL POLE AT STATION 0+75 LEFT OF LISBON CENTER DRIVE AT THE N.E. CORNER OF WOODBINE ROAD.

BENCH MARKS

HO. CO. 3931005 ELEV. 634.96
 3/4" REINFORCING ROD 0.5' BELOW SURFACE
 285' N. OF RT. 99 ALONG W. SIDE WOODBINE ROAD

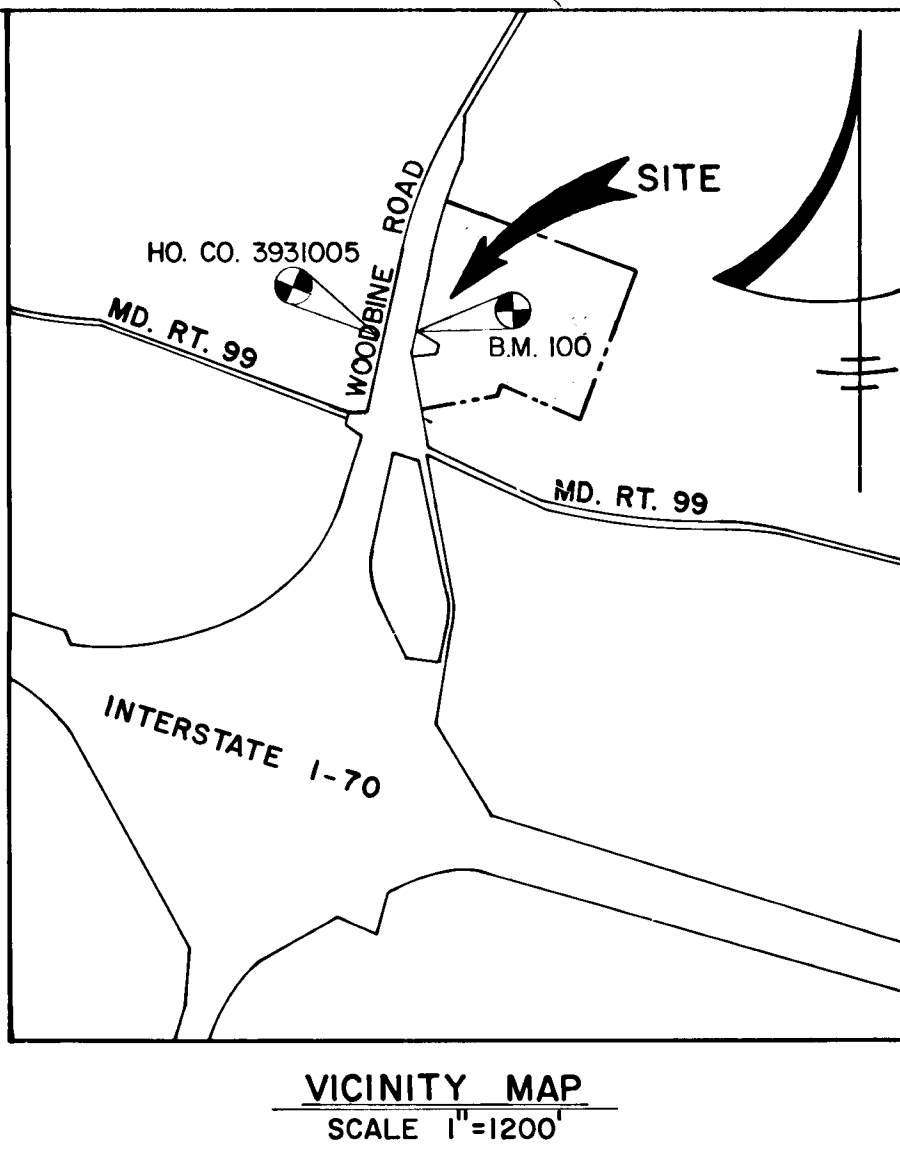
B.M. 100 ELEV. 634.46
 IRON PIPE AT SOUTH PROP. COR. OF PARCEL D
 ALONG WOODBINE ROAD.

/// - DENOTES PAVING SECTION P-5



STRUCTURE SCHEDULE

| NO. | TYPE | INV. IN | INV. OUT | TOP ELEV. | LOC. | REMARKS |
|-----|-------------------|---------|----------|-----------|---------|------------------------|
| I-1 | A-10 W/DEFLECTORS | 609.80 | 609.75 | 615.74 | 0+60.75 | DRWGS. SD. 4.02 & 4.83 |
| I-2 | A-10 W/DEFLECTORS | 610.49 | 610.13 | 615.74 | 0+60.75 | DRWGS. SD. 4.02 & 4.83 |
| I-3 | A-10 W/DEFLECTORS | 612.02 | 611.53 | 615.74 | 0+60.75 | DRWG. SD. 4.02 |
| S-1 | METAL END SECTION | --- | 608.36 | 610.57 | --- | DRWG. SD. 5.51 |
| I-4 | A-10 W/DEFLECTORS | --- | 610.00 | 622.92 | 2+85.75 | DRWG. SD. 4.02 |



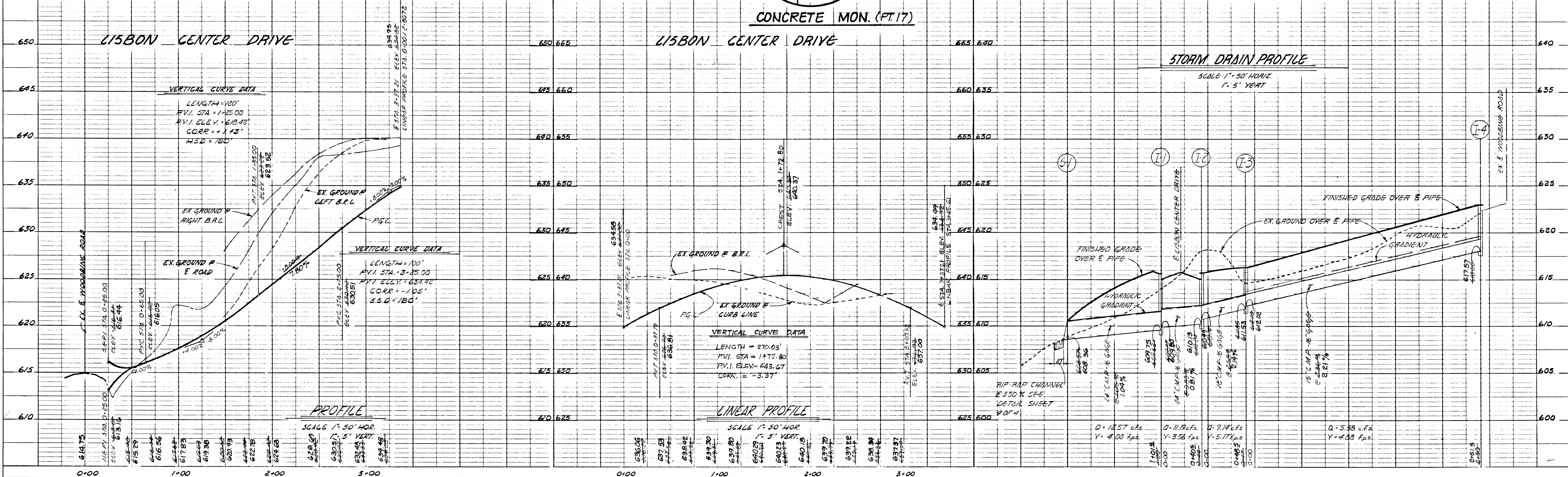
ROUTE 94 BUSINESS CENTER
 PARCELS D-F AND LOTS 1 & 2
 4th ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

LISBON CENTER DRIVE
 PLAN, PROFILE AND
 STORM DRAIN PROFILE

OWNER AND DEVELOPER
 ROUTE 94 LIMITED PARTNERSHIP
 3525 ELLICOTT MILLS DRIVE
 SUITE N
 ELLICOTT CITY, MD. 21043

SCALE: AS SHOWN DATE NOV 18, 1986 DWG. NO. 1 OF 4
 DES. A.M. VIUCCI DRN. J. WEAVER CHK. C. CROVO

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



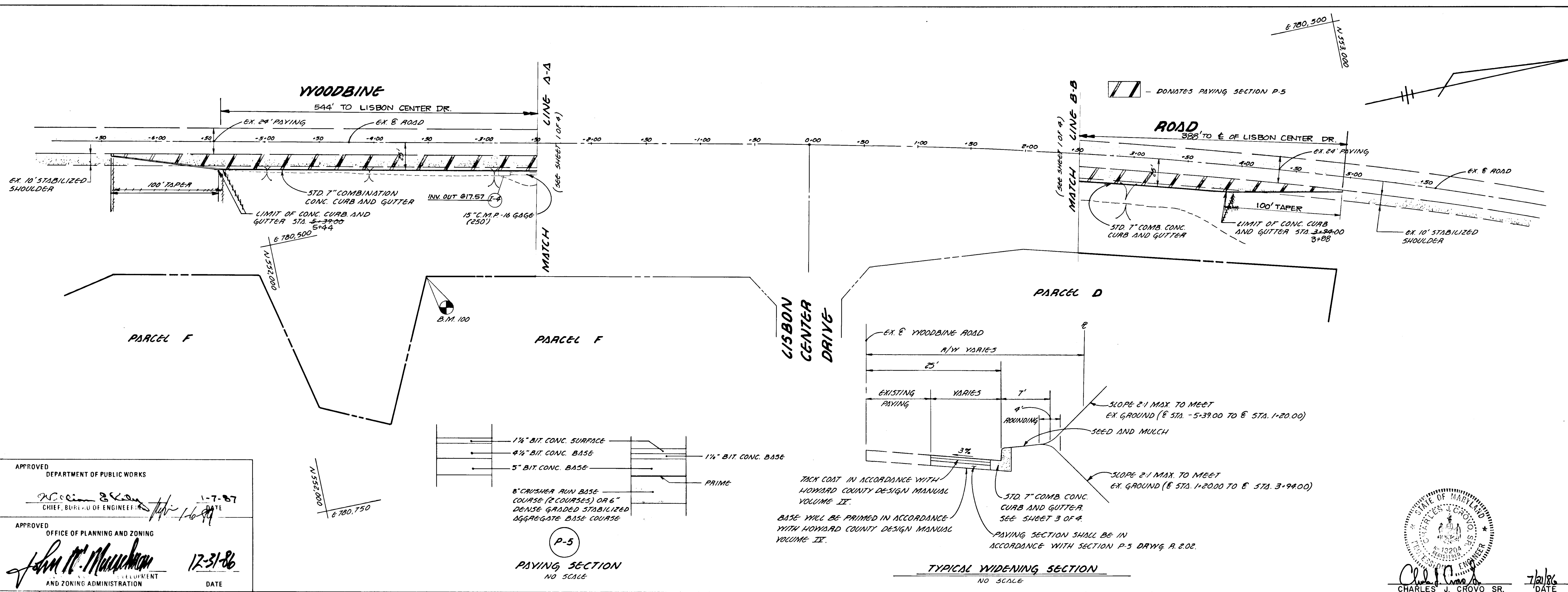
DATE
 BY
 SURVEYED
 PLOTTED
 CHECKED
 BY
 DATE

DATE
 BY
 SURVEYED
 PLOTTED
 CHECKED
 BY
 DATE

2746

DATE
BY
CHECKED
ALIGNED
RT. OF WAY CHECKED
NO. 1
PLAN

DATE
BY
CHECKED
GRADES CHECKED
B.M. NOTED
STRUCTURE NOTATIONS OK'D
NO. 1
PROFILE



ROUTE 94 BUSINESS CENTER
PARCELS D-F AND LOTS 142
4TH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

WOODBINE ROAD
PLAN AND TYPICAL SECTION

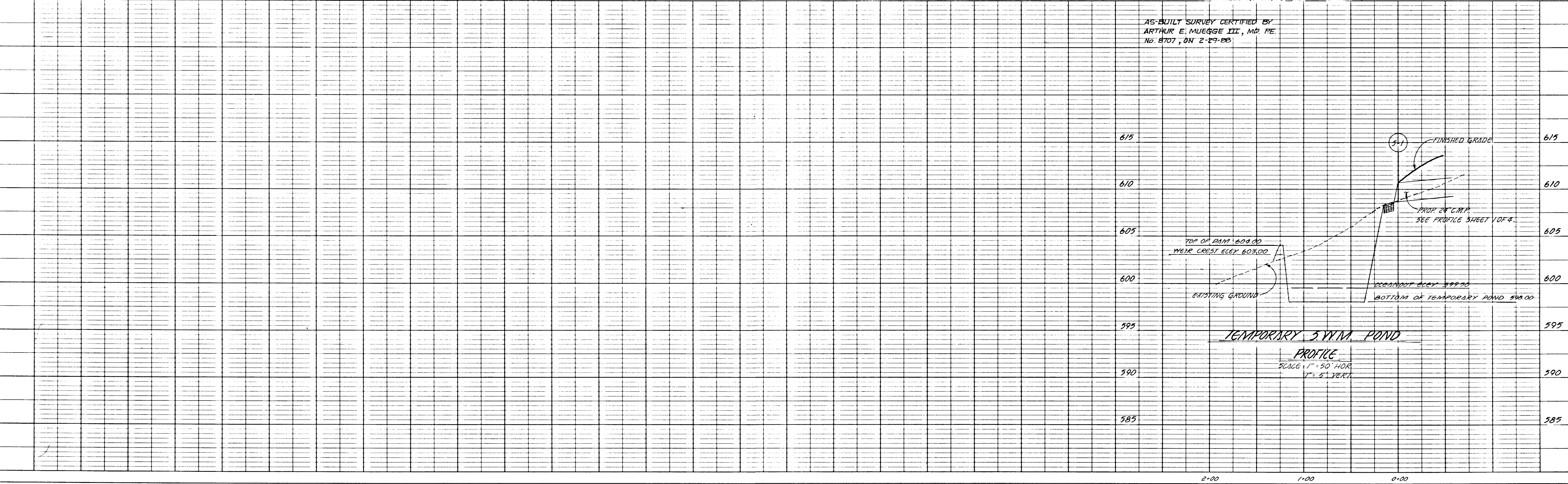
OWNER AND DEVELOPER
ROUTE 94 LIMITED PARTNERSHIP
3525 ELLICOTT MILLS DRIVE
SUITE N
ELLICOTT CITY, MD 21043

SCALE AS SHOWN DATE NOV 18, 1986 DWG. NO. 2 OF 4
DES. A.M. VITUCCI DRN. J. WEAVER CHK. C. CROVO

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

AS-BUILT SURVEY CERTIFIED BY
ARTHUR E. MUEGGE III, MD. P.E.
NO. 8707, ON 2-29-88

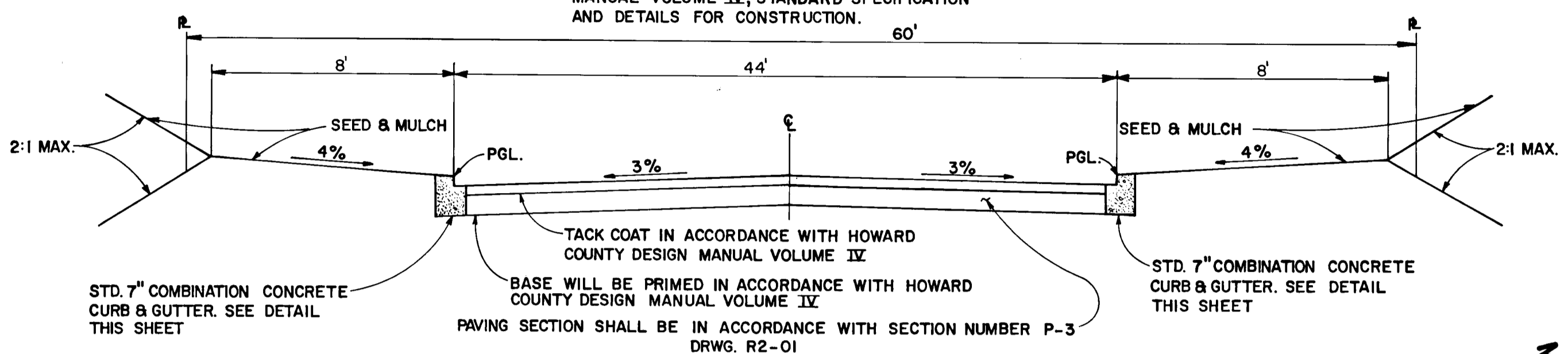
7/1/86
DATE
CHARLES J. CROVO SR.



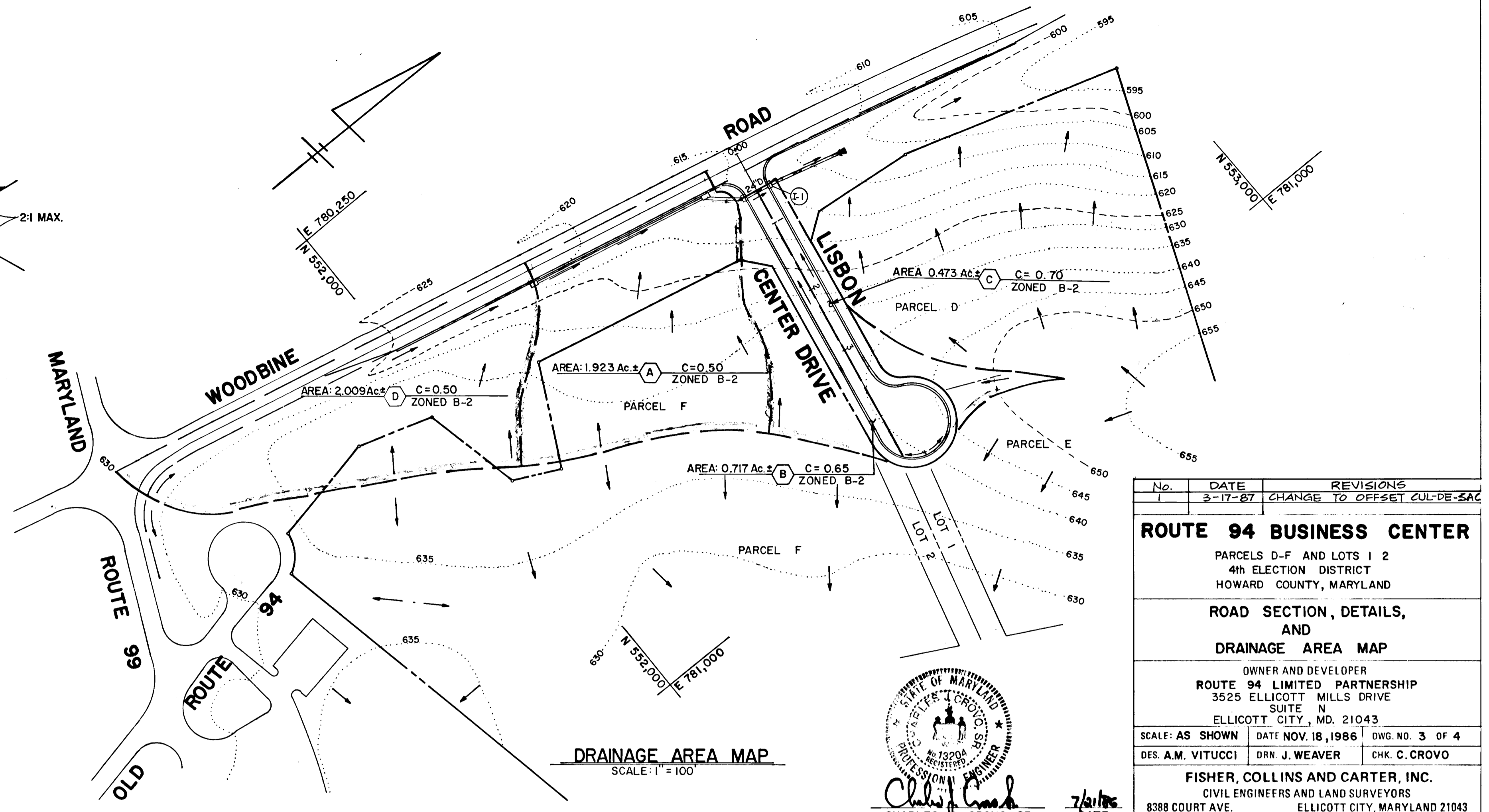
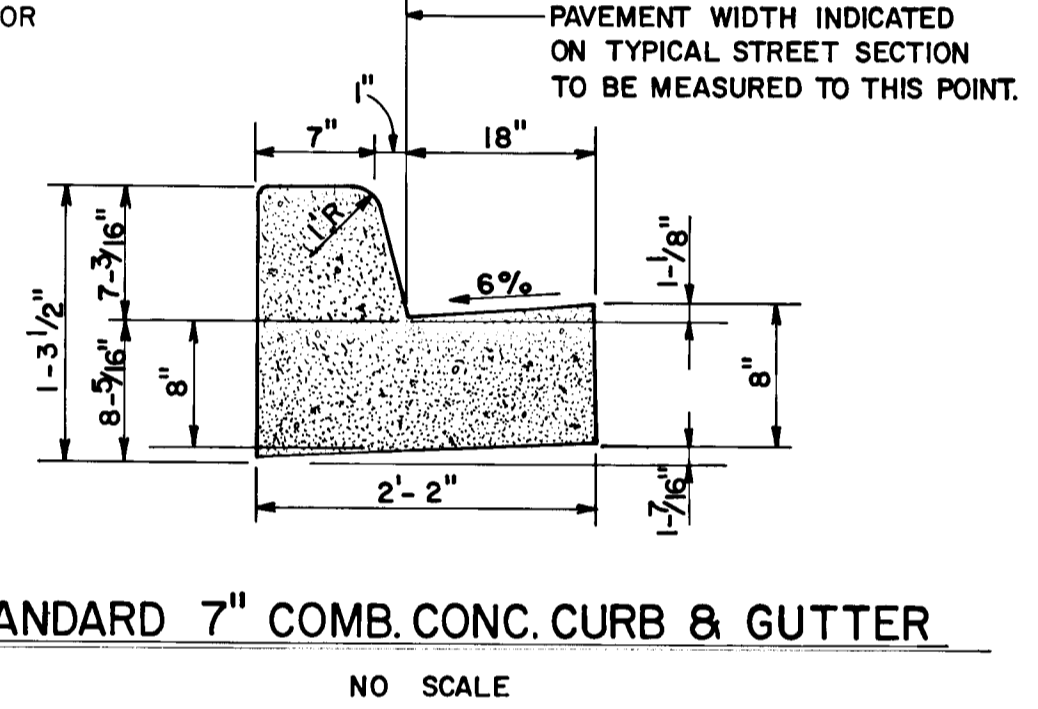
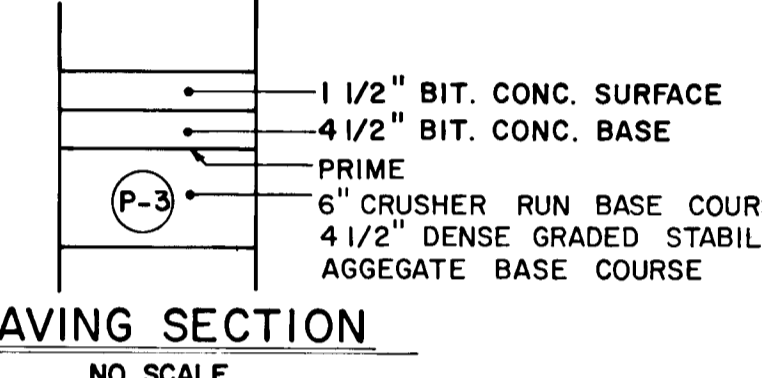
1246

TYPICAL ROADWAY SECTION

ALL MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH HOWARD COUNTY DESIGN MANUAL VOLUME IV, STANDARD SPECIFICATION AND DETAILS FOR CONSTRUCTION.



| ROAD NAME | CLASSIFICATION | DESIGN SPEED | ZONING | STA. LIMITS |
|---------------------|----------------|--------------|--------|-----------------|
| LISBON CENTER DRIVE | CUL-DE-SAC | 25 M.P.H. | B-2 | 0+00 TO 3+34.39 |



| No. | DATE | REVISIONS |
|-----|---------|-----------------------------|
| 1 | 2-17-87 | CHANGE TO OFFSET CUL-DE-SAC |

ROUTE 94 BUSINESS CENTER
PARCELS D-F AND LOTS 1 2
4th ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

ROAD SECTION, DETAILS, AND DRAINAGE AREA MAP

OWNER AND DEVELOPER
ROUTE 94 LIMITED PARTNERSHIP
3525 ELLICOTT MILLS DRIVE
SUITE N
ELLICOTT CITY, MD. 21043

SCALE: AS SHOWN DATE NOV. 18, 1986 DWG. NO. 3 OF 4
DES. A.M. VITUCCI DRN. J. WEAVER CHK. C. CROVO

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

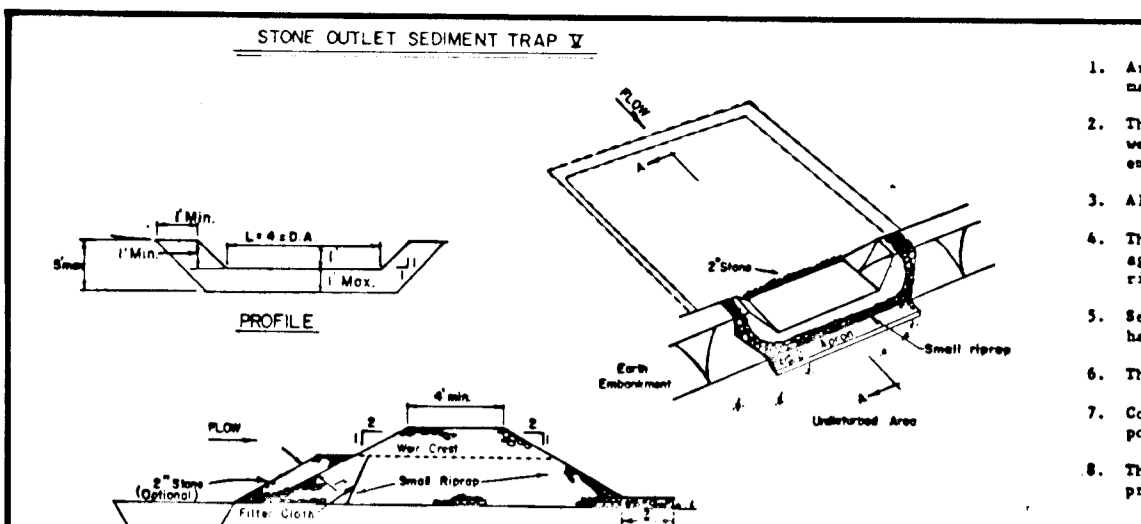
STATE OF MARYLAND
PROFESSIONAL ENGINEER
1920
CHARLES J. CROVO SR.
DATE 7/8/86

PLAN
SURVEYED, PLOTTED, CHECKED, RT. OF WAY CHECKED
NOTE BOOK NO. _____

APPROVED DEPARTMENT OF PUBLIC WORKS
[Signature] 1-7-87
CHIEF, BUREAU OF ENGINEERING
APPROVED OFFICE OF PLANNING AND ZONING
[Signature] 12-31-86
CHIEF, DIVISION OF AN. & VELL. SENT AND ZONING ADMINISTRATION
DATE

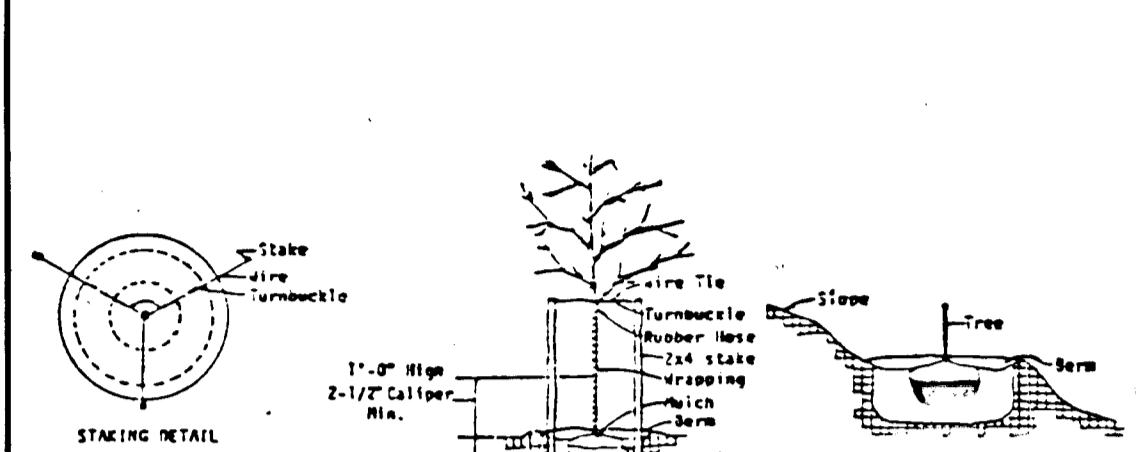
PROFILE
SURVEYED, PLOTTED, CHECKED, STRUCTURE NOTATIONS CHECKED
NOTE BOOK NO. _____

1246



- CONSTRUCTION SPECIFICATIONS FOR ST-V**
- Area under sediment trap shall be cleared, grubbed and stripped of any vegetation and rock mat. The pool area shall be cleared.
 - The fill material for the sediment trap shall be free of roots and other woody vegetation as well as over-sized stones, rocks, organic material or other objectionable material. The sediment trap shall be constructed by excavating with equipment while in place.
 - All cut and fill slopes shall be 2:1 or flatter.
 - The stone used in the outlet shall be small riprap 4"-8" along with a 1" thickness of 2" aggregate placed on the upgrade side on the small riprap or underlaid filter cloth in the riprap.
 - Reinforcing shall be removed and trap restored to its original dimensions when the sediment has accumulated to 1/2 the design depth of the trap.
 - The structure shall be inspected after each rain and repairs made as needed.
 - Construction operations shall be carried out in such a manner that erosion and water pollution is minimized.
 - The structure shall be removed and the area stabilized when the drainage area has been properly stabilized.

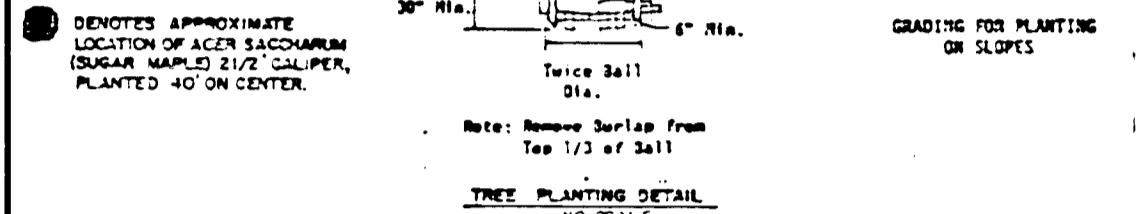
OPTION: A one foot layer of 2" stone may be placed on the upstream side of the riprap in place of the underlaid filter cloth.



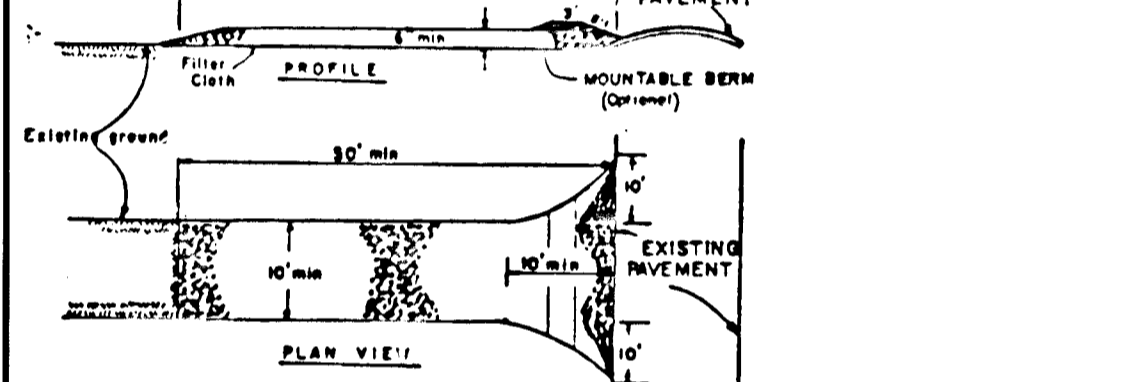
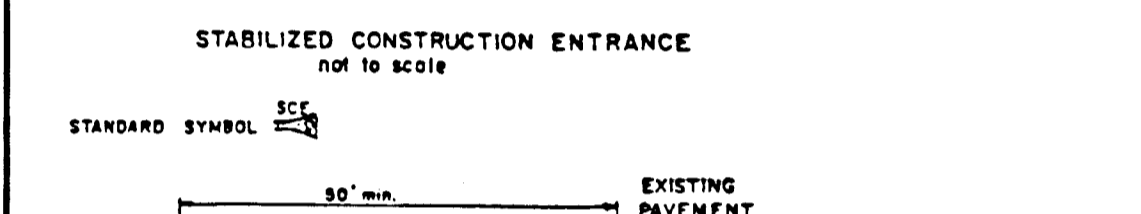
STONE OUTLET SEDIMENT TRAP AND TEMPORARY S.W.M. POND DATA:

TOP DIMENSIONS 8'x42'
 BOTTOM DIMENSIONS 8'x24'
 DRAINAGE AREA : 20 AC +
 CAPACITY REQUIRED : 333 cu yds.
 CAPACITY PROVIDED : 428 cu yds.
 DEPTH : 4.0 ft

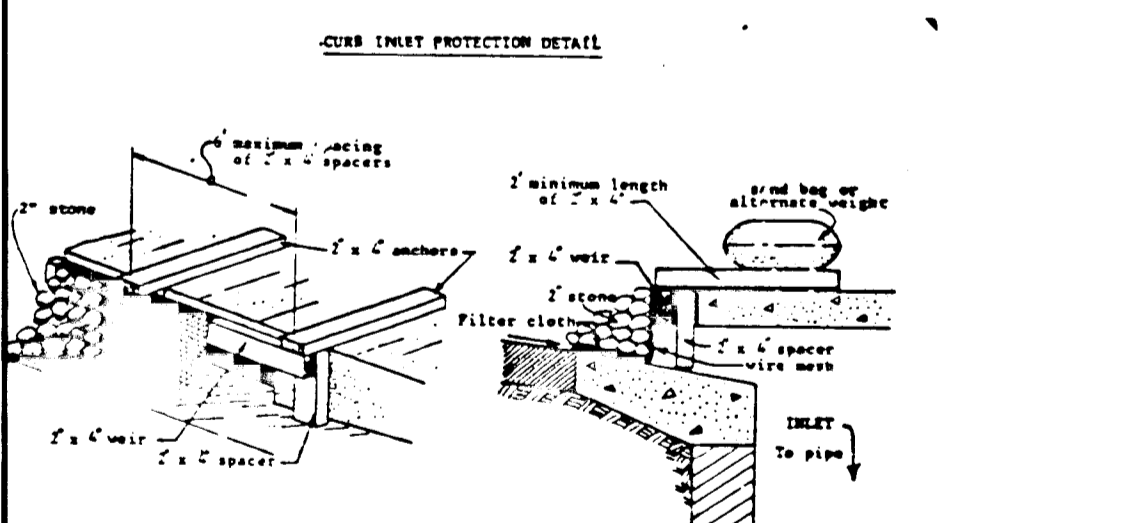
CLEANOUT ELEVATION : 599.5
 WEIR CREST ELEV : 603.00
 BOTTOM OF TRAP ELEV : 598.00



NOTE: CONTRACTOR SHALL VERIFY LOCATION OF UNDERGROUND UTILITIES PRIOR TO DIGGING. FINAL LOCATIONS OF TREES MAY BE ADJUSTED SLIGHTLY TO ACCOMMODATE FIELD CONDITIONS. PLANTING PROCEDURES SHALL COMPLY WITH "LANDSCAPE SPECIFICATIONS FOR BALTIMORE-WASHINGTON METROPOLITAN AREAS". SUBSTITUTIONS TO THE ABOVE SPECIES MAY BE PERMITTED, PROVIDED THAT THE PLANTING IS IN ACCORDANCE WITH THE STREET TREE AND LANDSCAPE REQUIREMENTS AS SPECIFIED IN SECTION 16.131 OF THE HOWARD COUNTY SUBDIVISION REGULATIONS.



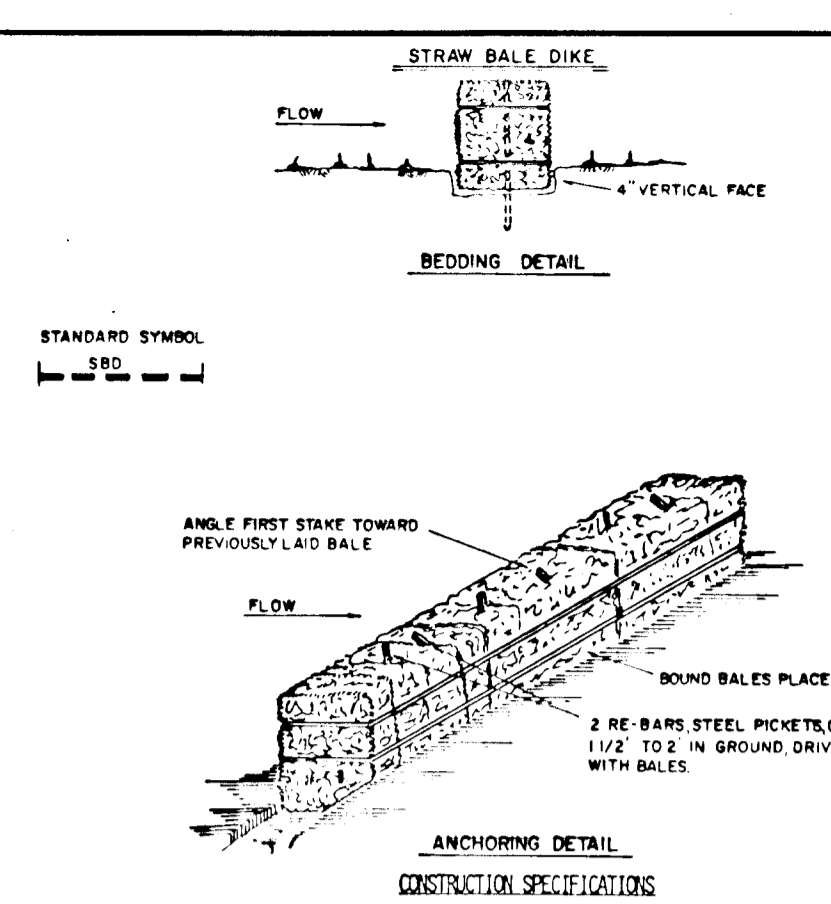
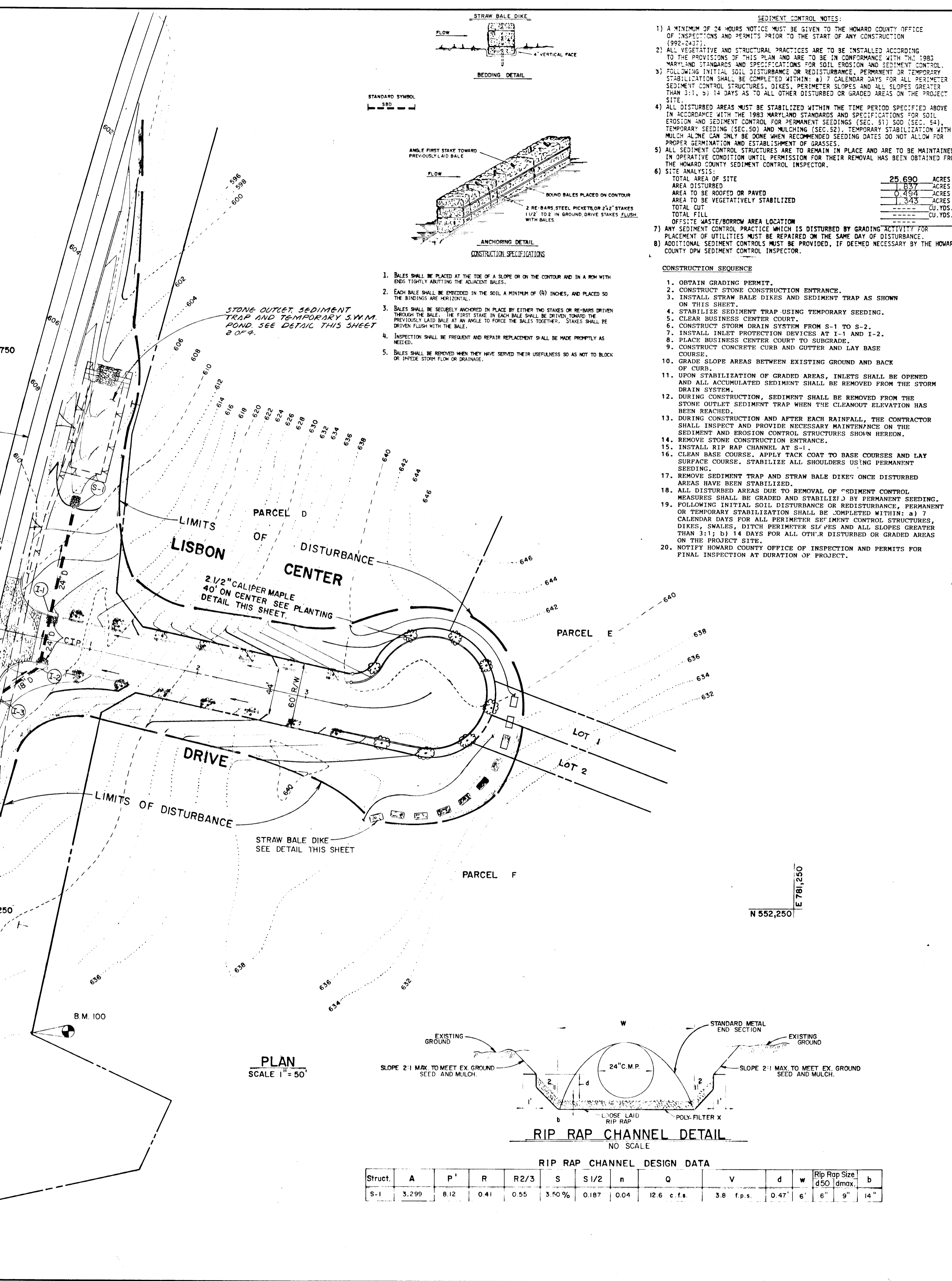
- Stone Size - One 3" stone, or crushed or recycled concrete equivalent.
- Mesh - As required, but not less than 1/2 inch (except on a simple cast-in-place concrete curb).
- Thickness - 800 mesh mesh (4) inches.
- Filter Cloth - Will be placed over the entire area prior to placing of stone. Filter will not be required on a single family residence lot.
- Surface Water - All surface water flowing or directed toward construction entrances shall be piped across the entrance. If piping is impractical, a removable curb with stone will be permitted.
- Maintenance - The entrance shall be maintained in a condition which will prevent leaking or flowing of sediment onto public rights-of-way. This may require periodic cleaning with additional stone as conditions demand and repair and/or element of any measure used to trap sediment. All sediment applied, stored, washed or treated must be kept in a secure container.
- Sealing - Details 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 trap device.
- Periodic inspection and needed maintenance shall be provided after each rain.



- Attach a continuous piece of wire mesh (30" min. width by throat length plus 4") to the 2" x 4" weir (ensuring throat length plus 4") so shown on the standard drawing.
- Place a piece of approved filter cloth (40-60 mesh) of the same dimensions as the wire mesh over the weir mesh and securely attach to the 2" x 4" weir.
- Securely nail the 2" x 4" weir to 9" long vertical supports to be located between the weir and inlet face (one of every 2' length of 2" x 4" on the top of the weir at spacer locations). These 2" x 4" supports shall extend across the inlet top and be held in place by walnuts or alternate weights.
- The assembly shall be placed so that the end supports are a minimum 1" beyond both ends of the throat opening.
- Form the wire mesh and filter cloth to the concrete gutter and against the face of curb on each side of the inlet. Place clean 2" stone over the wire mesh and filter fabric in such a manner as to prevent water from entering the inlet under or around the filter cloth.
- This type of protection must be inspected frequently and the filter cloth and stone replaced when clogged with sediment.
- Assure that storm flow does not bypass inlet by installing temporary earth or asphalt dike directing flow into inlet.

| No. | DATE | REVISIONS |
|-----|---------|-----------------------------|
| 1 | 3-17-87 | CHANGE TO OFFSET CUL-DE-SAC |

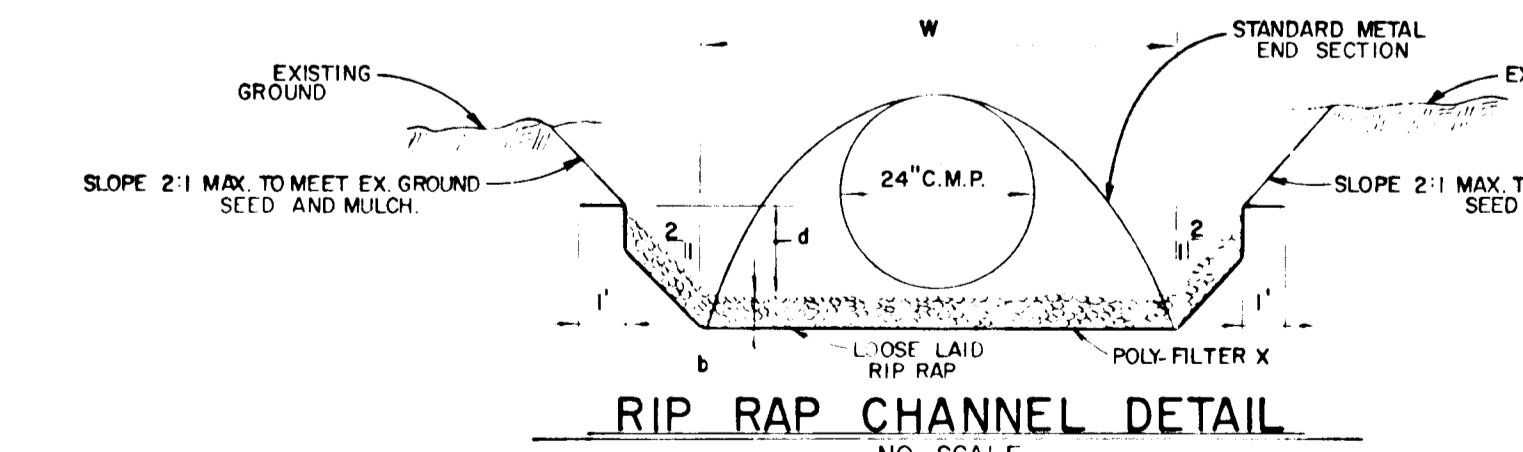
FISHER, COLLINS AND CARTER, INC.
 CONSULTING ENGINEERS AND LAND SURVEYORS
 8388 COURT AVENUE
 ELLICOTT CITY, MARYLAND 21043
 TELEPHONE: (301) 461-2855



- BALES SHALL BE PLACED AT THE TOE OF A SLOPE OR ON THE CONTOUR AND IN A ROW WITH ONE TIGHTLY ADJUTING THE ADJACENT BALES.
- EACH BALE SHALL BE DRIVEN INTO THE SOIL A MINIMUM OF (4) INCHES, AND PLACED SO THE BINDINGS ARE HORIZONTAL.
- BALES SHALL BE SEQUELY 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 BE DRIVEN FLUSH WITH THE BALE.
- INSPECTION SHALL BE FREQUENT AND REPAIR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
- BALES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFULNESS SO AS NOT TO BLOCK OR IMPED STORM FLOW OR DRAINAGE.

- SEDIMENT CONTROL NOTES:**
- 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 (9902-2437).
 - 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.
 - SOLLOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE, 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.
 - 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 SEEDING (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 SEEDING AND ESTABLISHMENT OF GRASSES.
 - ALL SEDIMENT CONTROL STRUCTURES ARE TO REMAIN IN PLACE AND ARE TO BE MAINTAINED IN OPERATIVE CONDITION UNTIL PERMITS FOR THEIR REMOVAL HAS BEEN OBTAINED FROM THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
 - SITE ANALYSIS:
 TOTAL AREA OF SITE: 25.690 ACRES
 AREA DISTURBED: 0.837 ACRES
 AREA TO BE ROOFED OR PAVED: 0.834 ACRES
 AREA TO BE VEGETATIVELY STABILIZED: 3.43 ACRES
 TOTAL CUT: 10,000 CU. YDS.
 TOTAL FILL: 10,000 CU. YDS.
 OFF-SITE WASTE/BORROW AREA LOCATION: [Blank]
 - ANY SEDIMENT CONTROL STRUCTURE IS DISTURBED BY GRADING ACTIVITY FOR PLACEMENT OF UTILITIES MUST BE REPAIRED ON THE SAME DAY OF DISTURBANCE.
 - ADDITIONAL SEDIMENT CONTROLS MUST BE PROVIDED, IF DEEMED NECESSARY BY THE HOWARD COUNTY DPM SEDIMENT CONTROL INSPECTOR.

- CONSTRUCTION SEQUENCE**
- OBTAIN GRADING PERMIT.
 - CONSTRUCT STONE CONSTRUCTION ENTRANCE.
 - INSTALL STRAW BALE DIKES AND SEDIMENT TRAP AS SHOWN ON THIS SHEET.
 - STABILIZE SEDIMENT TRAP USING TEMPORARY SEEDING.
 - CLEAR BUSINESS CENTER COURT.
 - CONSTRUCT STORM DRAIN SYSTEM FROM S-1 TO S-2.
 - INSTALL INLET PROTECTION DEVICES AT 1-1 AND 1-2.
 - PLACE BUSINESS CENTER COURT TO SUBGRADE.
 - CONSTRUCT CONCRETE CURB AND GUTTER AND LAY BASE COURSES.
 - GRADE SLOPE AREAS BETWEEN EXISTING GROUND AND BACK OF CURB.
 - UPON STABILIZATION OF GRADED AREAS, INLETS SHALL BE OPENED AND ALL ACCUMULATED SEDIMENT SHALL BE REMOVED FROM THE STORM DRAIN SYSTEM.
 - DURING CONSTRUCTION, SEDIMENT SHALL BE REMOVED FROM THE STONE OUTLET SEDIMENT TRAP WHEN THE CLEANOUT ELEVATION HAS BEEN REACHED.
 - DURING CONSTRUCTION AND AFTER EACH RAINFALL, THE CONTRACTOR SHALL INSPECT AND PROVIDE NECESSARY MAINTENANCE ON THIS SEDIMENT AND EROSION CONTROL STRUCTURES SHOWN HEREBON.
 - REMOVE STONE CONSTRUCTION ENTRANCE.
 - INSTALL RIP RAP CHANNELS AT S-1.
 - CLEAN BASE COURSE. APPLY TACK COAT TO BASE COURSES AND LAY SURFACE COURSE. STABILIZE ALL SHOULDERS USING PERMANENT SEEDING.
 - REMOVE SEDIMENT TRAP AND STRAW BALE DIKES ONCE DISTURBED AREAS HAVE BEEN STABILIZED.
 - ALL DISTURBED AREAS DUE TO REMOVAL OF SEDIMENT CONTROL MEASURES SHALL BE GRADED AND STABILIZED BY PERMANENT SEEDING.
 - FOLLOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN: a) 7 CALENDAR DAYS FOR ALL PERIMETER SEDIMENT CONTROL STRUCTURES, DIKES, SWALES, DITCH PERIMETER SLOPES AND ALL SLOPES GREATER THAN 3:1; b) 14 DAYS FOR ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.
 - NOTIFY HOWARD COUNTY OFFICE OF INSPECTION AND PERMITS FOR FINAL INSPECTION AT DURATION OF PROJECT.



RIP RAP CHANNEL DESIGN DATA

| Struct. | A | P ¹ | R | R2/3 | S | S1/2 | n | Q | V | d | w | Rip Rap Size | b |
|---------|-------|----------------|------|------|-------|-------|------|-------------|------------|-------|----|--------------|---|
| S-1 | 3.299 | 8.12 | 0.41 | 0.55 | 3.50% | 0.187 | 0.04 | 12.6 c.f.s. | 3.8 f.p.s. | 0.47' | 6' | 6" 9" 14" | |

ENGINEER'S CERTIFICATE

HEREBY 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.

Charles J. Crow
 SIGNATURE OF ENGINEER

DEVELOPER'S CERTIFICATE

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 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 SOIL CONSERVATION DISTRICT FOR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY.

Ronald S. Carter
 SIGNATURE OF DEVELOPER

12-29-86
 DATE

REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.

James M. DeLo
 U.S. SOIL CONSERVATION SERVICE

12-31-86
 DATE

THIS DEVELOPMENT IS APPROVED FOR EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.

APPROVED:
Charles W. Ziehms
 DISTRICT
 HOWARD SOIL CONSERVATION DISTRICT

12-31-86
 DATE

APPROVED: DEPARTMENT OF PUBLIC WORKS.

Rosemary S. Esch
 CHIEF, BUREAU OF ENGINEERING

1-7-87
 DATE

APPROVED: OFFICE OF PLANNING AND ZONING

John W. Hutcherson
 PLANNING AND ZONING ADMINISTRATION

12-31-86
 DATE

- PERMANENT SEEDING NOTES:**
- APPLY TO GRADED OR CLEARED AREA NOT SUBJECT TO IMMEDIATE FURTHER DISTURBANCE WHERE A PERMANENT LONG-LIVED VEGETATIVE COVER IS REQUIRED. SEEDING SHALL BE COMPLETED WITHIN 15 CALENDAR DAYS OF SOIL AT TIME OF SEEDING, APPLY 400 LBS. PER ACRE 30-0-0 UREAFORM FERTILIZER (9 LBS/1000 SQ. FT.).
- SOIL AMENDMENTS:** IN LIEU OF SOIL TEST RECOMMENDATIONS, USE ONE OF THE FOLLOWING SCHEDULE:
- PREFERP-U - APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE (92 LBS/1000 SQUARE FT) AND 600 LBS PER ACRE 10-10-10 FERTILIZER (14 LBS/1000 SQ. FT.) BEFORE SEEDING. HARROW OR DISC INTO UPPER THREE-INCHES OF SOIL AT TIME OF SEEDING, APPLY 400 LBS. PER ACRE 30-0-0 UREAFORM FERTILIZER (9 LBS/1000 SQ. FT.).
 - ACCEPTABLE - APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE (92 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 PERIODS MARCH 1 THRU APRIL 30, AND AUGUST 1 THRU OCTOBER 15, SEED WITH 20 LBS PER ACRE (1.4 LBS/1000 SQ. FT.) OF KENTUCKY 31 TALL FESCUE. FOR THE PERIOD MAY 1 THRU JULY 31, SEED WITH 60 LBS KENTUCKY 31 TALL FESCUE PER ACRE AND 2 LBS PER ACRE (.05 LBS/1000 SQ. FT.) OF KEEPING LOVEGRASS. DURING THE PERIOD OF OCTOBER 16 THRU FEBRUARY 28, PROTECT SITE BY OPTION (1) 2 TONS PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING. OPTION (2) USE SOO. OPTION (3) SEED WITH 60 LBS/ACRE KENTUCKY 31 TALL FESCUE AND MULCH WITH 2 TONS/ACRE WELL ANCHORED STRAW.
- MULCHING:** APPLY 1 1/2 TO 2 TONS PER ACRE (20 TO 90 LBS/1000 SQ. FT.) OF UNROTTED SMALL GRASS STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 210 GALLONS PER ACRE (5 GAL/1000 SQ. FT.) OF EMULSIFIED ASPHALT ON FLAT AREAS. ON SLOPES 8 FEET OR HIGHER, USE 348 GALLONS PER ACRE (8 GAL/1000 SQ. FT.) FOR ANCHORING.
- MAINTENANCE:** INSPECT ALL SEEDING AREAS AND MAKE NEEDED REPAIRS, REPLACEMENTS AND RESEEDINGS.
- TEMPORARY SEEDING NOTES:**
- APPLY TO GRADED OR CLEARED AREAS LIKELY TO BE REDISTURBED WHERE A SHORT-TERM VEGETATIVE COVER IS NEEDED.
- SEEDING 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, SEE WITH 20 BUSHEL PER ACRE OF ANNUAL RYE (3.2 LBS/1000 SQ. FT.). FOR THE PERIOD MAY 1 THRU AUGUST 14, SEED WITH 3 LBS PER ACRE OF KEEPING LOVEGRASS (.07 LBS/1000 SQ. FT.). FOR THE PERIOD NOVEMBER 16 THRU FEBRUARY 28, PROTECT SITE BY APPLYING 2 TONS PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING. OR USE SOO.
- MULCHING:** APPLY 1 1/2 TO 2 TONS PER ACRE (20 TO 90 LBS/1000 SQ. FT.) OF UNROTTED SMALL GRASS STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 210 GALLONS PER ACRE (5 GAL/1000 SQ. FT.) OF EMULSIFIED ASPHALT ON FLAT AREAS. ON SLOPES, 8 FT. OR HIGHER, USE 348 GAL PER ACRE (8 GAL/1000 SQ. FT.) FOR ANCHORING.
- REFER TO THE 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR RATE AND METHODS NOT COVERED.

OWNER AND DEVELOPER
 ROUTE 94 LIMITED PARTNERSHIP
 3525 ELLICOTT MILLS DRIVE
 SUITE N
 ELLICOTT CITY, MD 21043

Charles J. Crow
 CHARLES J. CROW SR.
 DATE: 12/28/86

STREET TREE GRADING AND SEDIMENT CONTROL PLAN

ROUTE 94 BUSINESS CENTER
 PARCELS D-F AND LOTS 1 & 2
 4th ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND
 SCALE: AS SHOWN SHEET 4 OF 4 JULY 18, 1986

1246