SHEET INDEX	
NO.	DESCRIPTION
1	TITLE SHEET
2	PLAN & PROFILE OF ROGERS AVENUE & DETAILS
3	SEDIMENT CONTROL PLAN & DRAINAGE AREA MAP
4	STORM DRAIN PROFILES & DETAILS
5	FLOODPLAIN REFORESTATION PLAN
G	BOX CULVERT EXTENSION DETAILS

BENCH MARKS

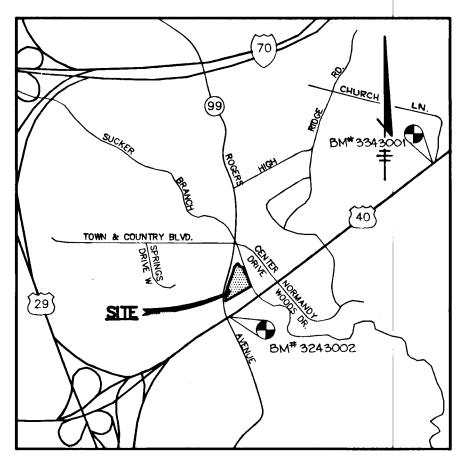
BM# 3343001 N 529235.880; E 855331.855

CONCRETE MONUMENT AT SURFACE 4'± NORTH OF MACADAM SHOULDER OF ROUTE 40 WEST. 18'± WFST OF YELLOW BLINKING SIGNAL, NEAR INTERSECTION OF ROUTE 40 WEST AND CHURCH LANE.

BM# 3243002 N 527899.393; E 853619.674

CONCRETE MONUMENT AT SURFACE OF MEDIAN, 5.5'± SOUTH OF LEFT TURN LANE OF ROUTE 40 WEST. 14'± EAST OF EAST EDGE OF CROSSOVER TO ROGERS AVENUE SOUTH.

ROADS & STORM DRAINS BROOKSIDE 2nd ELECTION DISTRICT HOWARD COUNTY, MARYLAND



VICINITY MAP

SCALE: 1"=2000'

GENERAL NOTES

- 1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE HOWARD COUNTY DESIGN MANUAL, VOL. IV, i.e., STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION, 1990 AMENDMENTS.
- 2. APPROXIMATE LOCATION OF EXISTING UTILITIES ARE SHOWN. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE EXISTING UTILITIES AND MAINTAIN UNINTERRUPTED SERVICE. ANY DAMAGE INCURRED DUE TO CONTRACTOR'S OPERATION SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTOR'S EXPENSE. EXISTING UTILITIES ARE SHOWN BASED ON THE BEST AVAILABLE INFORMATION.
- 3. THE CONTRACTOR SHALL TEST PIT EXISTING UTILITIES AT LEAST FIVE (5) DAYS BEFORE STARTING WORK SHOWN ON THESE DRAWINGS.
- 4. CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITIES AT LEAST FIVE (5) DAYS BEFORE STARTING WORK ON THESE DRAWINGS:

MISS UTILITY
BELL TELEPHONE SYSTEM
LONG DISTANCE CABLE DIVISION
BALTIMORE GAS AND ELECTRIC CO.
HOWARD COUNTY BUREAU OF UTILITIES
HOWARD COUNTY CONSTRUCTION/
INSPECTION SURVEY DIVISION (24 HOURS NOTICE
PRIOR TO COMMENCEMENT OF WORK)

COLONIAL PIPELINE

1-800-257-777 393-3649 393-3553 or 3554 539-8000 992-2366 792-7272

795–1390

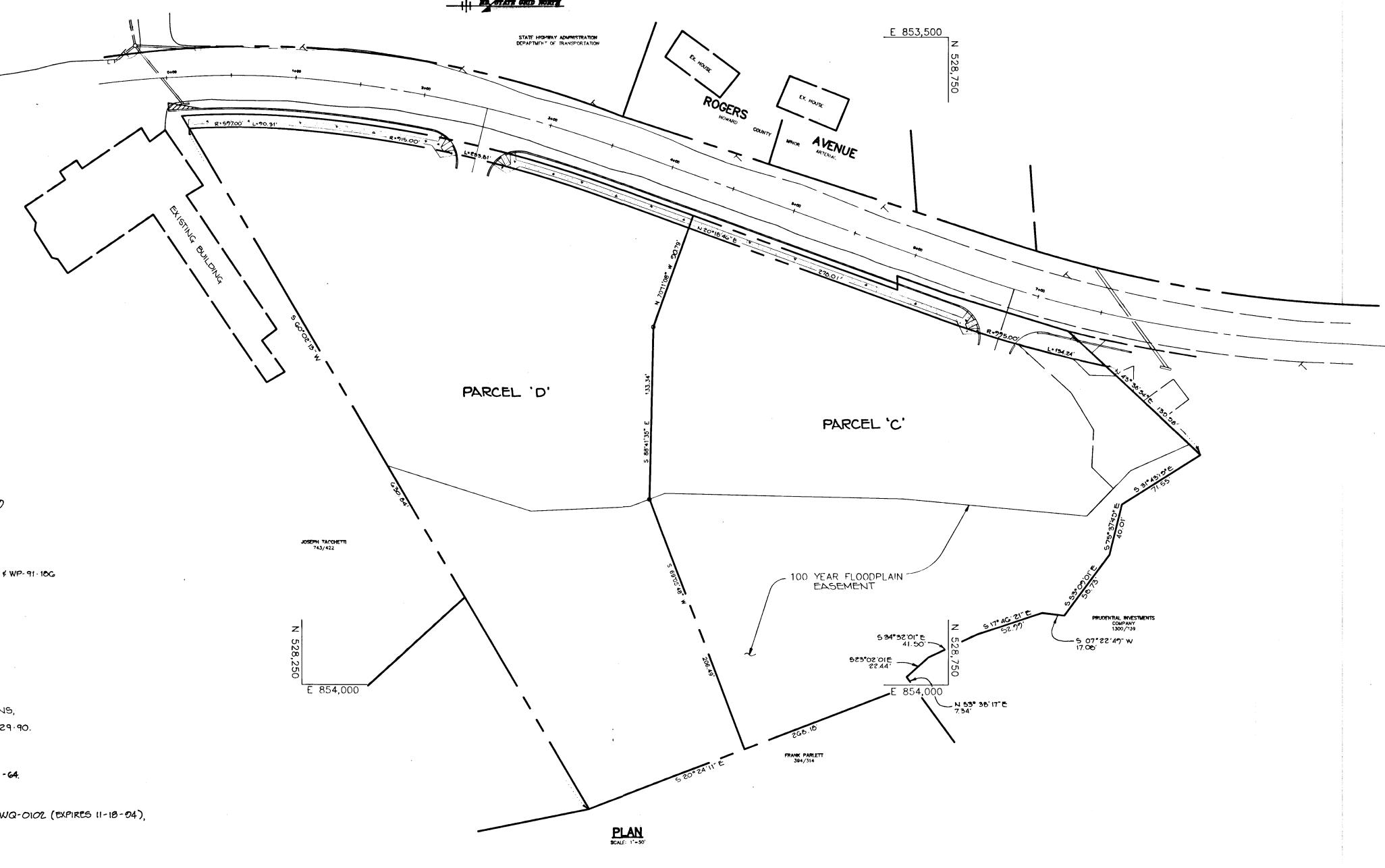
- 5. ALL INLETS SHALL BE CONSTRUCTED IN ACCORDANCE WITH HOWARD COUNTY STANDARDS
- 6. ALL STREET CURB RETURNS SHALL HAVE 25' RADII UNLESS OTHERWISE NOTED.
- 7. STORM DRAIN TRENCHES WITHIN ROAD RIGHT-OF-WAY SHALL BE BACKFILLED AND COMPACTED IN ACCORDANCE WITH HOWARD COUNTY DESIGN MANUAL, VOLUME IV, i.e., STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION, 1990 AMENDMENTS.
- 8. INSTALLATION OF TRAFFIC CONTROL DEVICES, MARKING, AND SIGNING SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, 1988 EDITION.
- 9. PIPE SHALL NOT BE INSTALLED BY THE CONTRACTOR UNTIL THE LENGTH CALLED FOR AT EACH STATION HAS BEEN APPROVED BY THE ENGINEER IN THE FIELD.
- 10. DESIGNED TRAFFIC SPEED IN ACCORDANCE WITH THE AMERICAN ASSOCIATION OF STATE HIGHWAY OFFICIAL STANDARDS:
- 11. ALL ELEVATIONS SHOWN ARE BASED ON U.S.C. AND G.S. MEAN SEAL LEVEL DATUM,
- 12. ALL FILL AREAS WITHIN ROADWAY AND UNDER STRUCTURES TO BE COMPACTED TO A MINIMUM OF 95% COMPACTION.
- 13. ALL PIPE ELEVATIONS SHOWN ARE INVERT _____ ELEVATIONS

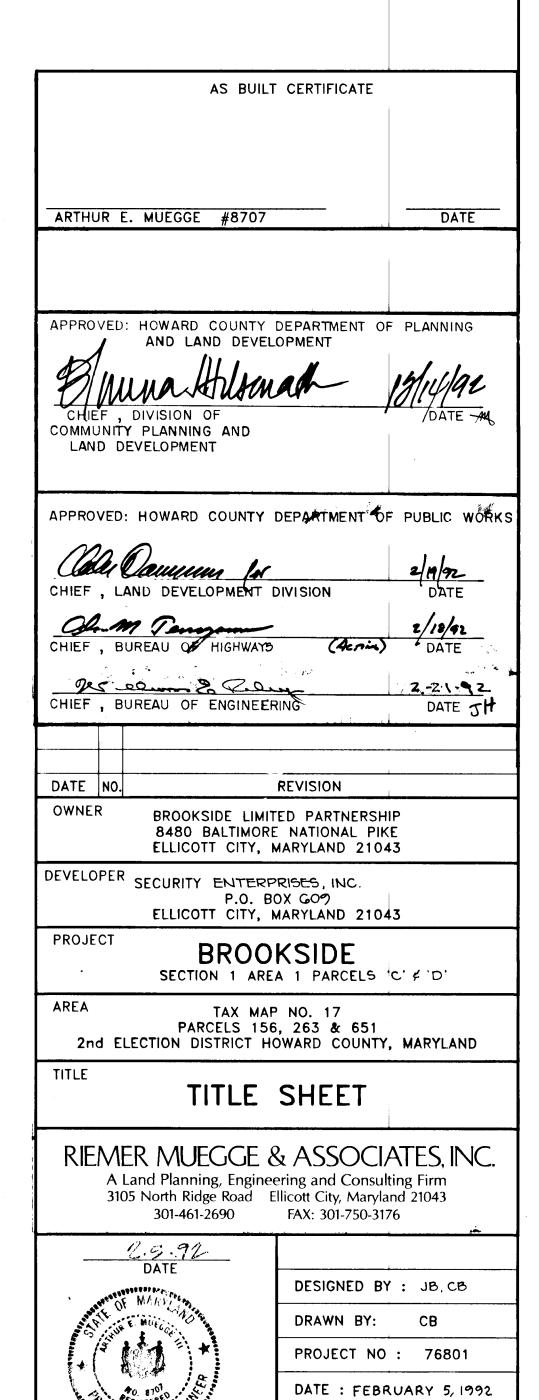
ALL 80' RIGHT-OF-WAYS

- 14. PROFILE STATIONS SHALL BE ADJUSTED AS NECESSARY TO CONFORM TO PLAN
- 15. SUBJECT PROPERTY ZONED B-2 PER 8-25-85 COMPREHENSIVE ZONING PLAN.
- 16. TOPO TAKEN FROM FIELD RUN SURVEY BY TRACY, SCHULTE & ASSOC. DATED MAY, 1987
- 17. NO PIPE SHALL BE LAID UNTIL LINES OF EXCAVATION HAS BEEN BROUGHT WITHIN 6"
- 18. ALL STORM DRAIN PIPE BEDDING SHALL BE CLASS "C" AS SHOWN IN FIG. 11.4, VOLUME 1 OF HOWARD COUNTY DESIGN MANUAL UNLESS OTHERWISE NOTED.
- 19. SEE DEPT. OF PLANNING AND ZONING FILE NO'S. WP-90-G4, WP-88-14G & F-89-108 & WP-91-10G

40 M.P.H.

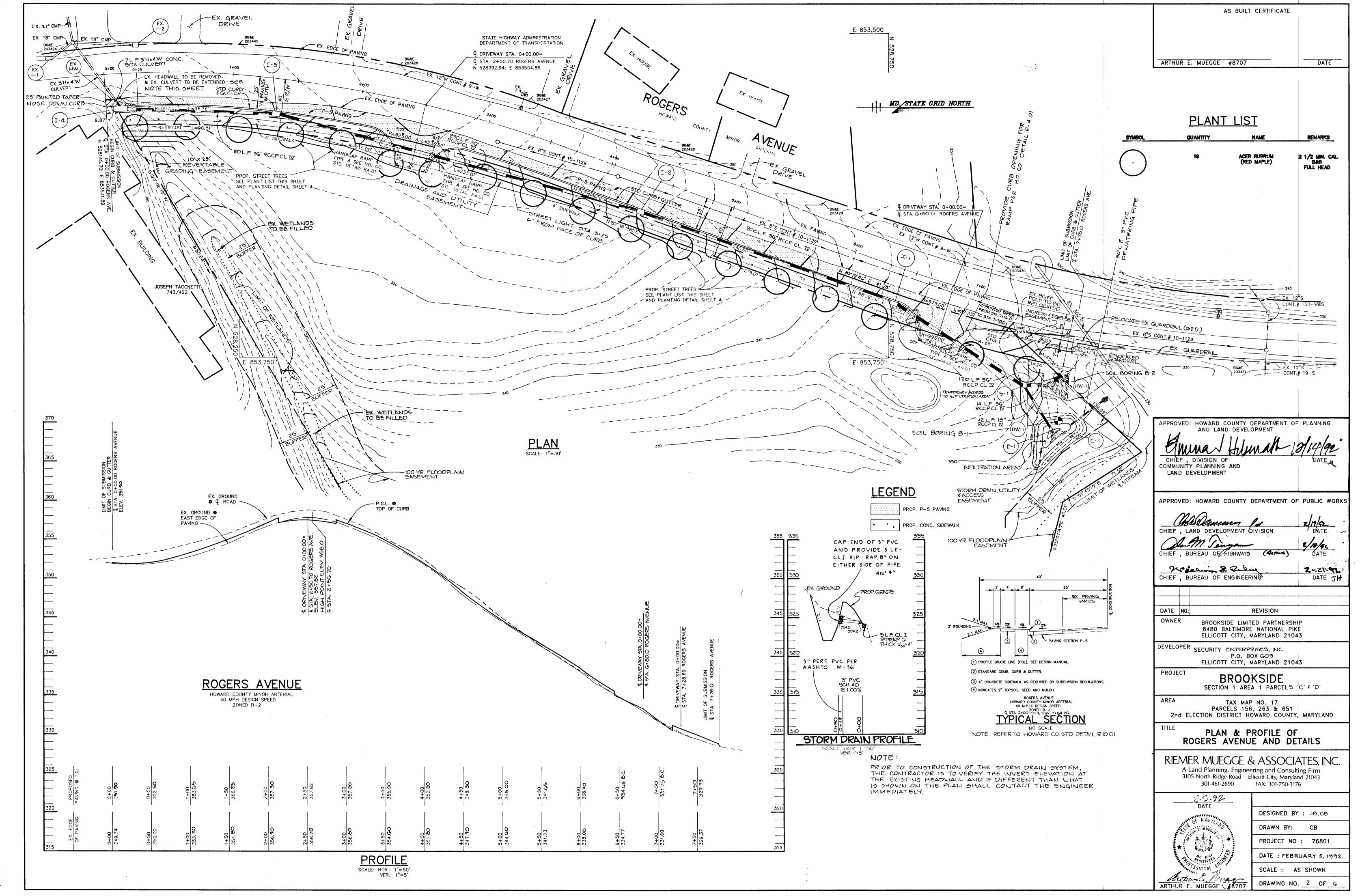
- 20. LIGHT POLES AND FIXTURES FOR STREET LIGHTS SHALL BE IN ACCORDANCE WITH HOWARD COUNTY DESIGN MANUAL VOLUME III ROAD AND BRIDGES, PAGE 4A-26.
- 21. THE STORMWATER MANAGEMENT FOR ROGERS AVENUE WILL BE COMPENSATED FOR UNDER SITE DEVELOPMENT PLAN FOR PARCEL 'C'.
- 22. WP-88-14G:
 A REQUEST FOR WAIVERS FROM SECTION IG. 119 AND SECTION IG. 120 OF THE HOWARD COUNTY SUBDIVISION AND LAND DEVELOPMENT REGULATIONS, REQUIRING SUBMISSION OF A SKETCH AND PRELIMINARY PLAN, WAS APPROVED IN A LETTER DATED 9.7.88.
- WP-90-G4
 A REQUEST FOR WAIVERS FROM SECTION IG.11G.C.4 AND SECTION IG.11G.C.G
 OF THE HOWARD COUNTY SUBDIVISION AND LAND DEVELOPMENT REGULATIONS,
 TO ALLOW STEEP SLOPE DISTURBANCE ADJACENT TO WETLANDS, AND TO
 ALLOW FILLING OF WETLANDS, WAS APPROVED IN A LETTER DATED 5.29.90.
- A REQUEST FOR A WAIVER FROM SECTION 16, 103 (c) OF THE HOWARD COUNTY SUBDIVISION AND LAND DEVELOPMENT REGULATIONS, WHICH VALIDATES WAIVERS FOR UP TO 12 MONTHS, WAS APPROVED IN A LETTER DATED G 2G 91 FOR REACTIVATION OF WP-88-146 & WP-90-64.
- 23. 100 YR. FLOODPLAIN WAS DETERMINED USING A STUDY PERFORMED BY PURDUM & JESCHKE DATED DECEMBER 1980.
- 24. WETLAND PERMIT NUMBERS: MARYLAND DEPARTMENT OF THE ENVIRONMENT 89-WQ-0102 (EXPIRES 11-18-94), U.S. ARMY CORPS OF ENGINEERS 88-03361-13 (EXPIRES 11-18-94).

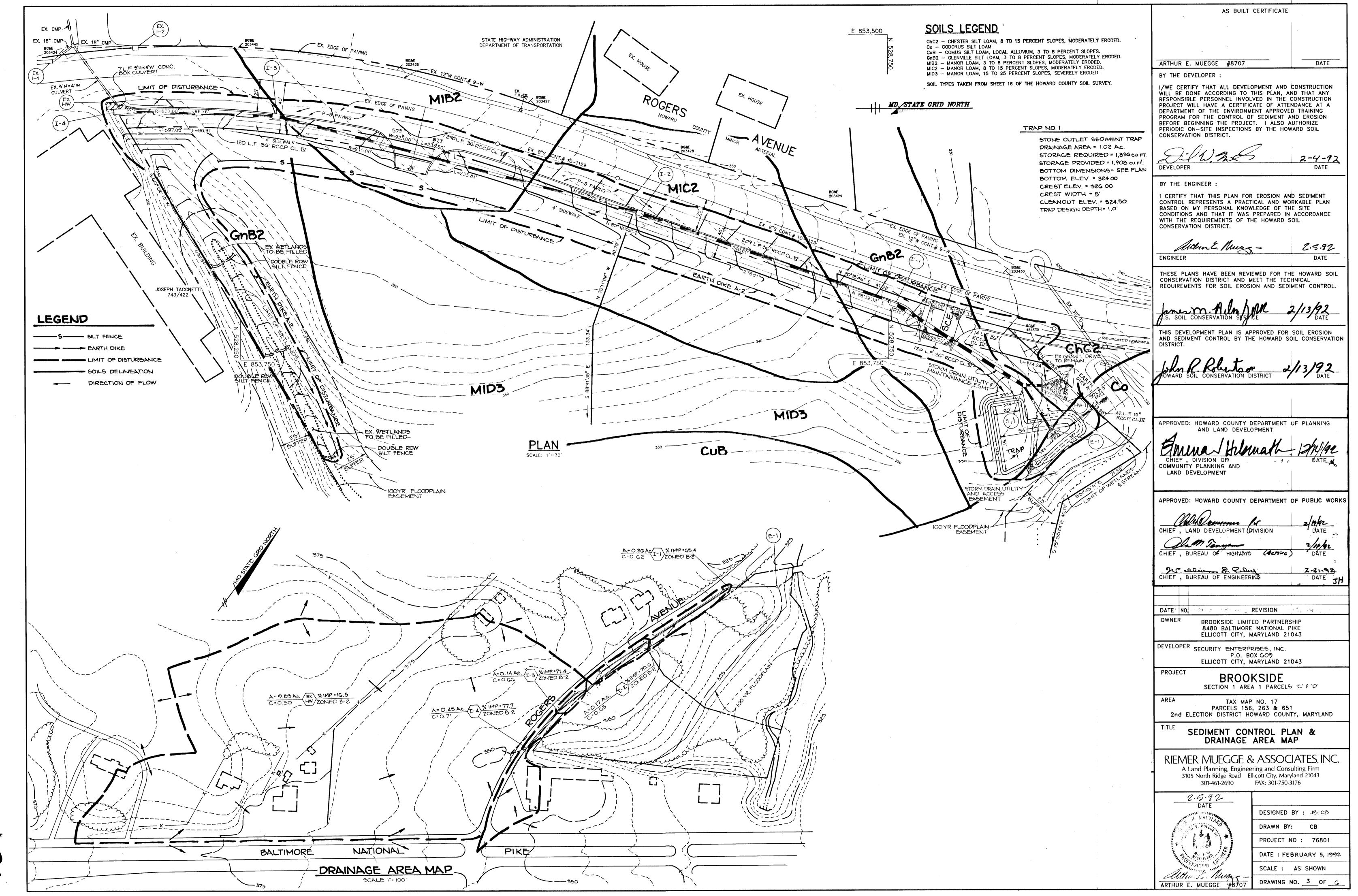


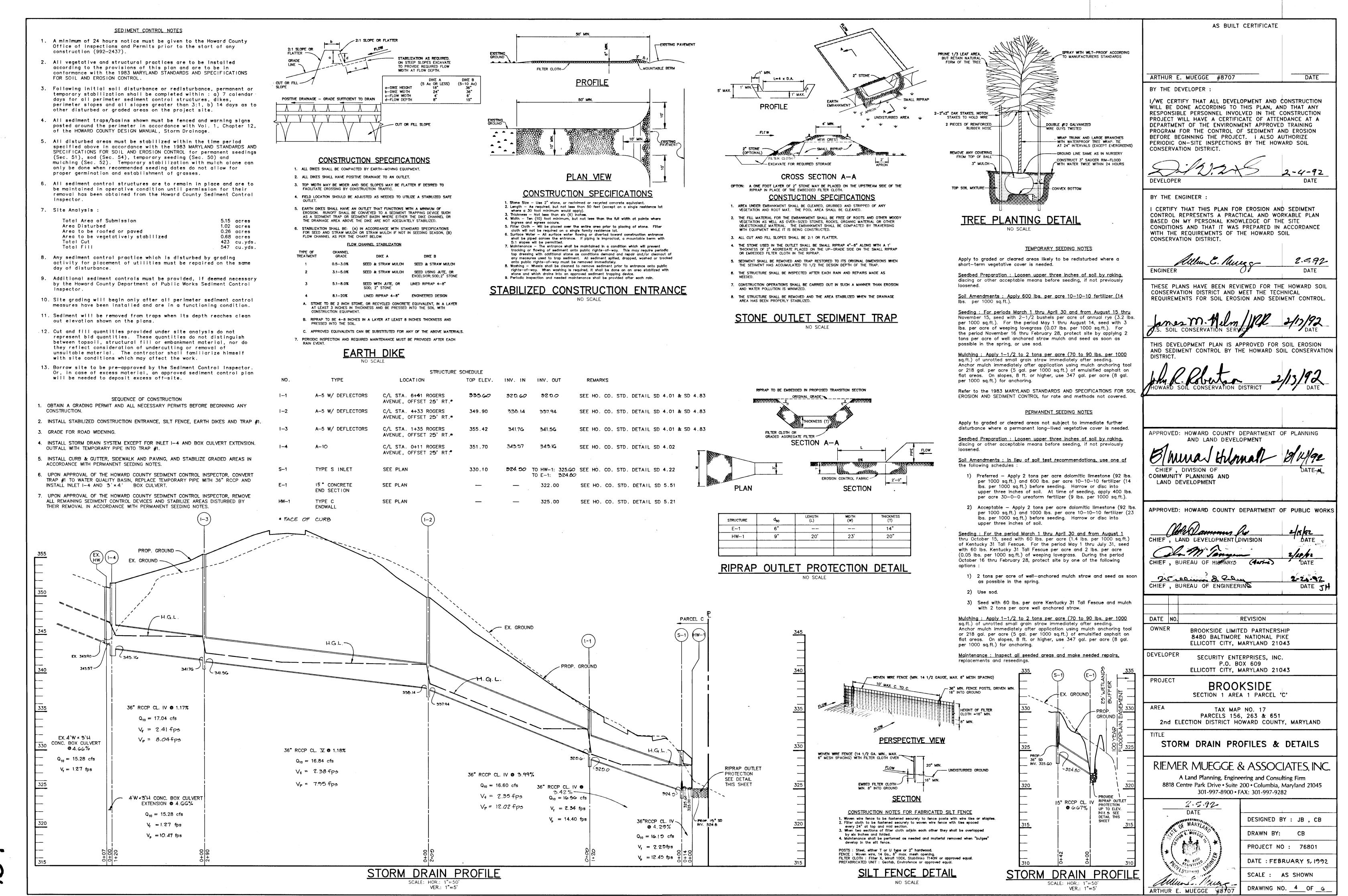


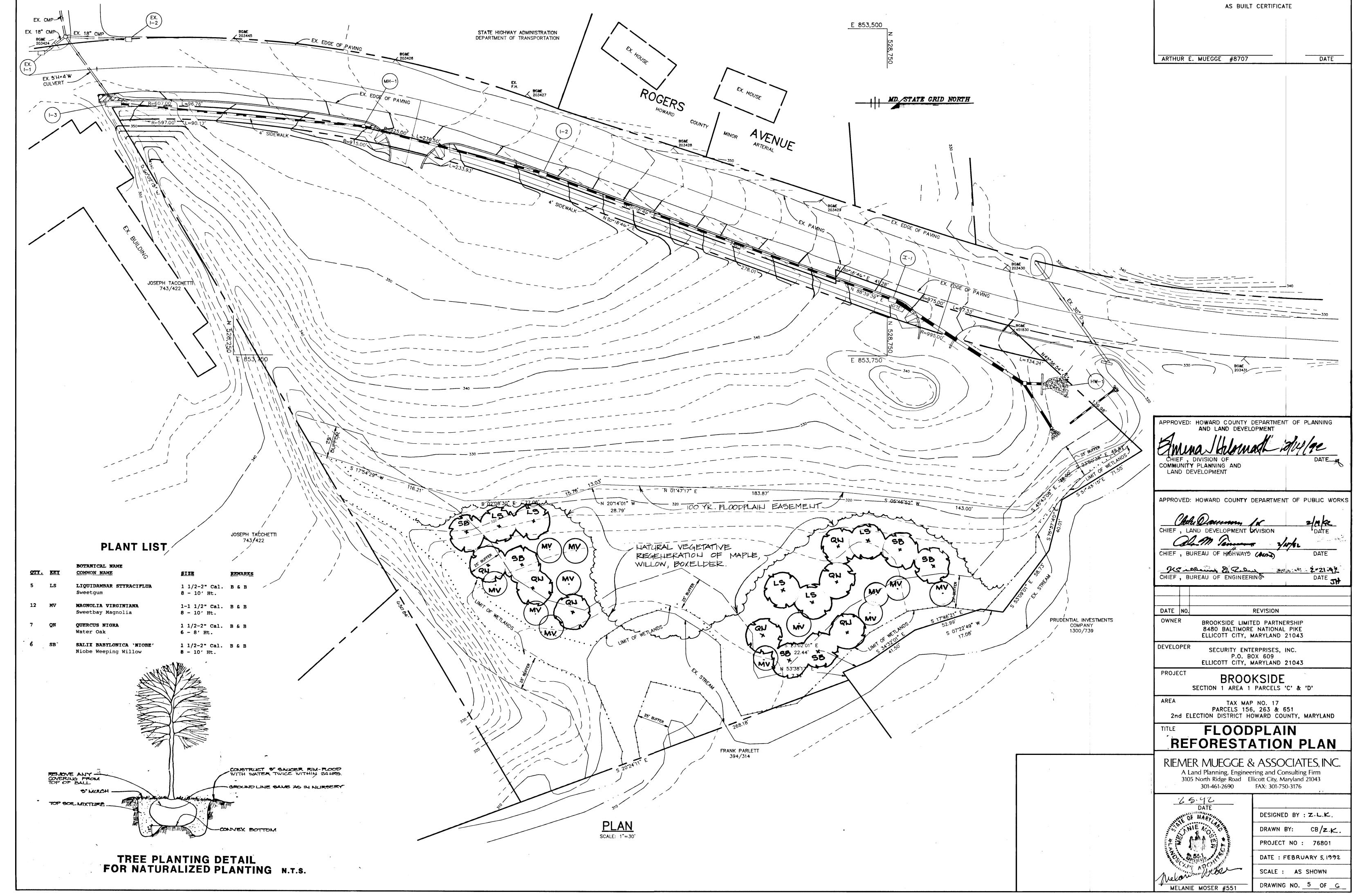
SCALE : AS SHOWN

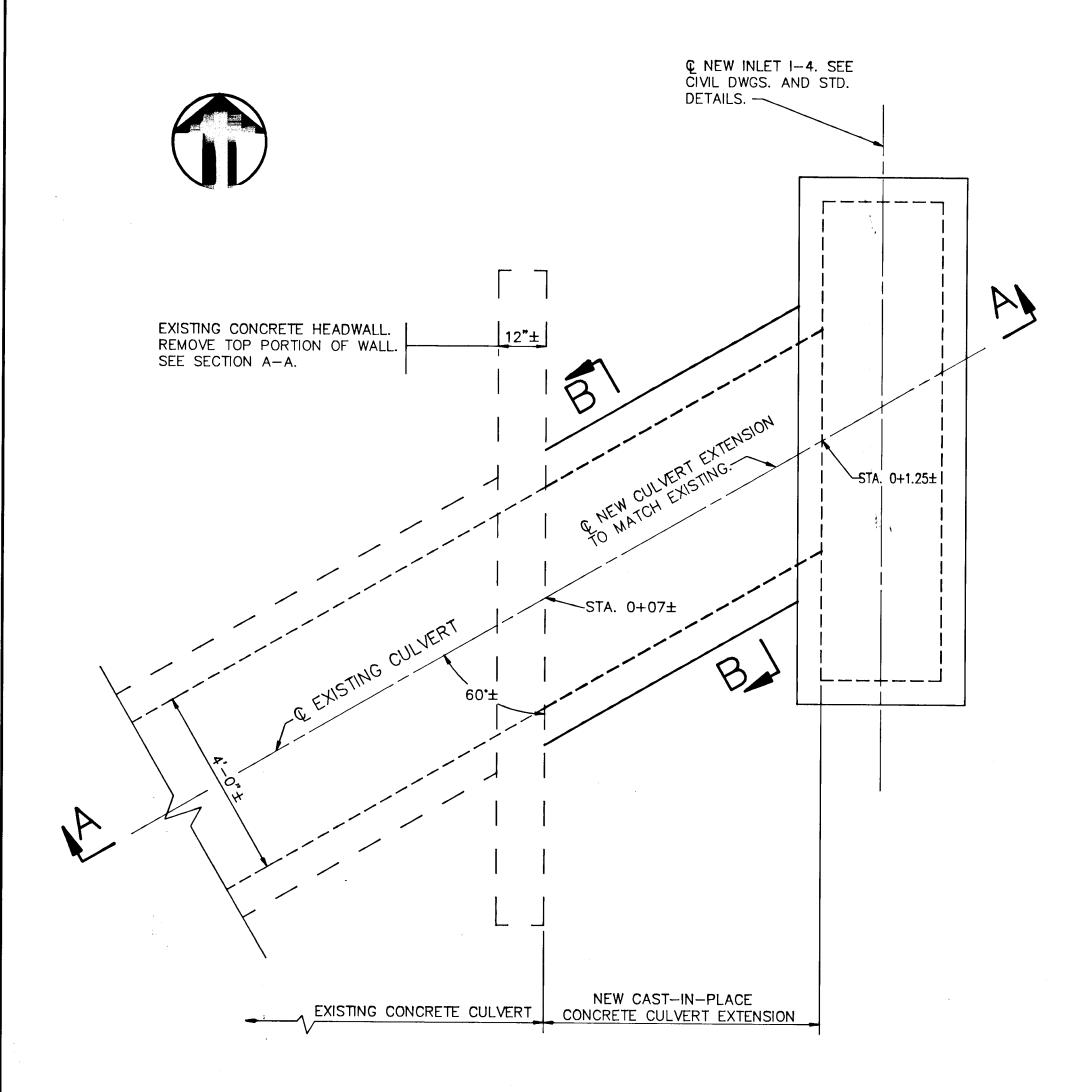
DRAWING NO. 1 OF G



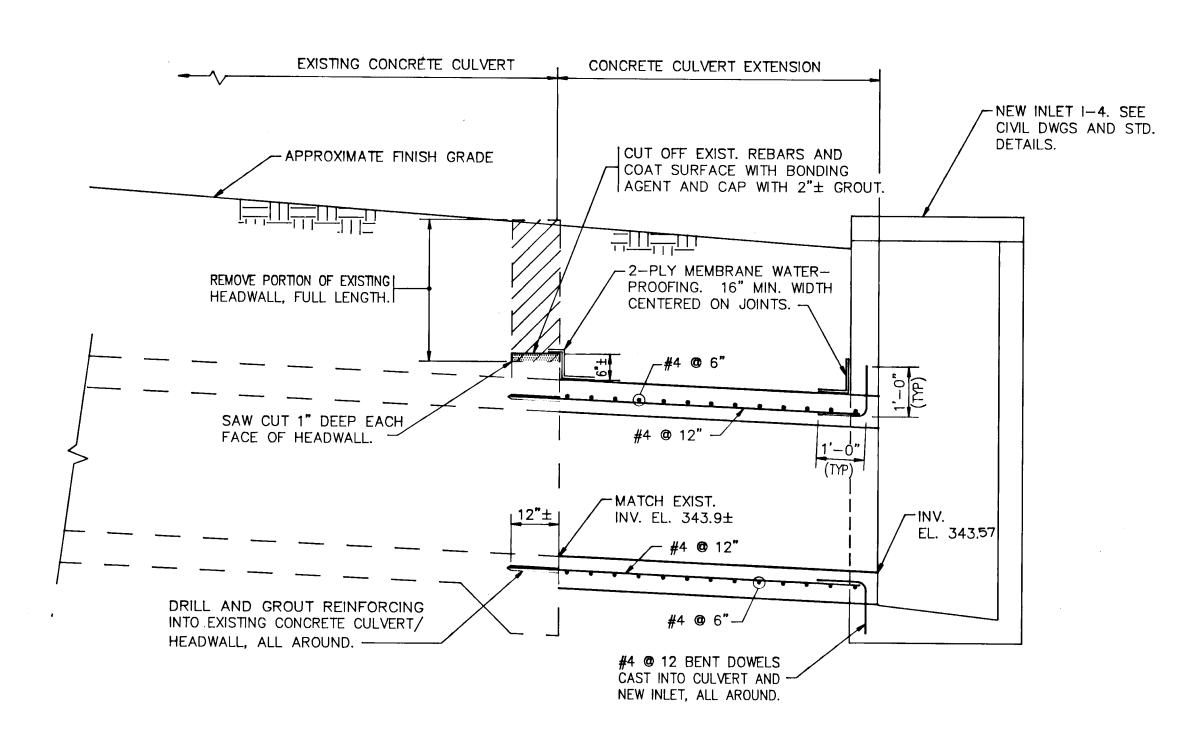








PLAN-CULVERT EXTENSION SCALE: 1/2"=1'-0"



SCALE: 1/2"=1'-0"

2

GENERAL NOTES-CULVERT EXTENSION

SPECIFICATIONS:

HOWARD COUNTY STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION AND SHA SPECIFICATIONS DATED JANUARY, 1982. SUPPLEMENT TO SPECIFICATIONS DATED, JANUARY 1988, REVISIONS THEREOF AND ADDITIONS THERETO, INCLUDING ALL INTERIM SPECIFICATION ADDENDA.

AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES DATED 1983 FOR DESIGN INCLUDING ALL INTERIM SPECIFICATIONS THROUGH 1988.

LOADING: HS-25.

CONCRETE: ALL CONCRETE FOR BOX CULVERT EXTENSION SHALL BE MIX NO. 3(3500 PSI).

REINFORCING STEEL REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60. ALL SPLICES NOT SHOWN SHALL BE LAPPED 40 BAR DIAMETERS. MINIMUM COVER FOR ANY BAR SHALL BE 2" UNLESS NOTED OTHERWISE. ALL REINFORCING STEEL

SHALL BE EPOXY COATED.

KEY ALL KEYS ARE NOMINAL SIZE.

CONCRETE DESIGN: LOAD FACTOR DESIGN METHOD.

EXISTING STRUCTURE: ALL DIMENSIONS AFFECTED BY THE GEOMETRICS, AND/OR LOCATION OF THE EXISTING CULVERT SHALL BE CHECKED IN THE FIELD BY THE CONTRACTOR. BEFORE ANY CONSTRUCTION IS DONE, AND BEFORE ANY REINFORCING STEEL. ETC., IS ORDERED OR FABRICATED. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO SUPPLY THE ENGINEER WITH ALL FIELD DIMENSIONS REQUIRED TO CHECK DETAIL DRAWINGS. THE ± MARKS SHOWN WITH DIMENSIONS AND STATIONS DO NOT INDICATE ANY DEGREE OF PRECISION. THESE MARKS (±) INDICATE EXISTING DIMENSIONS AND STATIONS THAT MAY VARY AND DO REQUIRE FIELD VERIFICATION BY THE CONTRACTOR.

EXISTING STRUCTURE SHOWN IN LONG DASHED LINES.

PORTIONS OF EXISTING STRUCTURE SHOWN HATCHED, TO BE REMOVED

COVER FOR CONCRETE CULVERT: NO CONSTRUCTION EQUIPMENT SHALL BE PERMITTED TO PASS OVER THE CULVERT UNTIL A MINIMUM OF 3 FT. OF COMPACTED FILL HAS BEEN PLACED OVER THE CULVERT.

5'-4"± 4'-0"± TO MATCH EXISTING 2'-0" MIN. LAP_ 2-PLY MEMBRANE WATER-PROOFING. 16" MIN. WIDTH CENTERED ON JOINT(TYP). - #4 • 6" CENTERED ~ IN WALLS AND SLABS -_2'-0" MIN. LAP_ 2 X 4 CONSTR.
JOINT(TYP.) NOTE: LONGINTUDINAL REINFORCING TO BE #4 @ 12" O/C.

> SECTION B-B SCALE: 1/2"=1'-0"

AS BUILT CERTIFICATE ARTHUR E. MUEGGE P.E.#8707 DATE APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING LAND DEVELOPMENT APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS CHIEF , LAND DEVELOPMENT DIVISION CHIEF , BUREAU OF ENGINEERING 3-121-72 DATE NO. REVISION OWNER BROOKSIDE LIMITED PARTNERSHIP 8480 BALTIMORE NATIONAL PIKE ELLICOTT CITY, MARYLAND 21043 DEVELOPER SECURITY ENTERPRISES, INC. P.O. BOX 609 ELLICOTT CITY, MARYLAND 21043 PROJECT BROOKSIDE SECTION 1 AREA 1 PARCEL 'C' AREA TAX MAP NO. 17 PARCELS 156, 263 & 651 2nd ELECTION DISTRICT HOWARD COUNTY, MARYLAND TITLE BOX CULVERT EXTENSION DETAILS NOLAN ASSOCIATES, INC. CONSULTING ENGINEERS - CIVIL/STRUCTURAL P.O. BOX 2579, COLUMBIA, MARYLAND 21045 PHONE: (301) 995-3651 FAX: (301) 995-1363 DESIGNED BY: CSN DRAWN BY: CSN NAI PROJECT NO.: 91-030 DATE : FEBRUARY 5, 1992 SCALE : AS SHOWN CHARLES S. NOLAN #15212 DRAWING NO. 6 OF 6