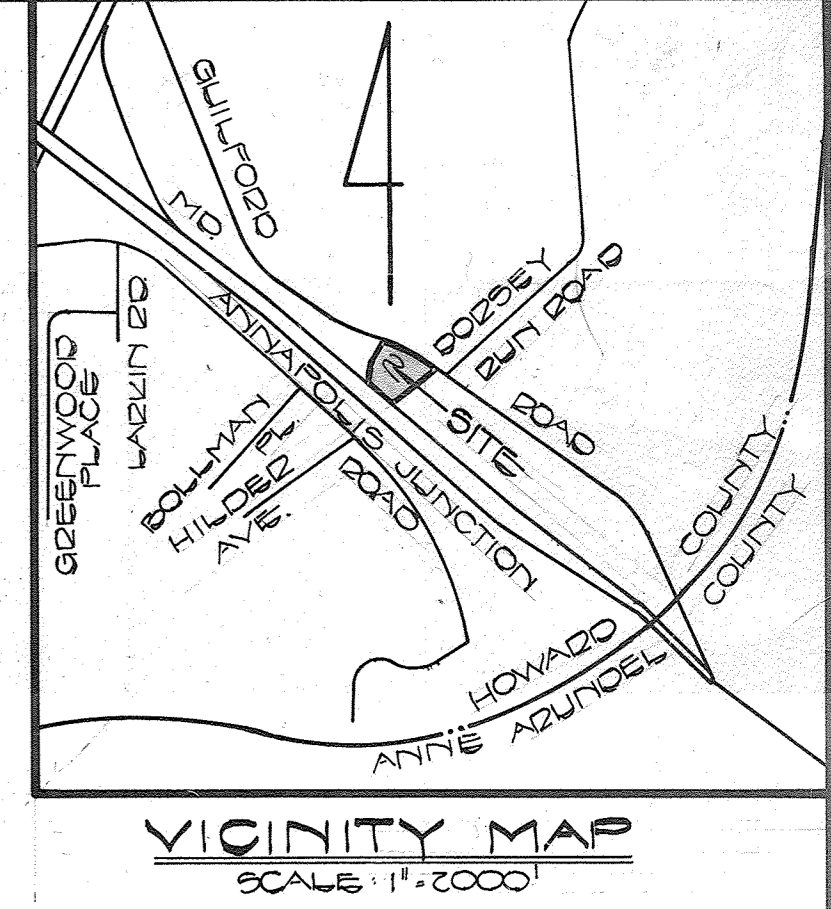


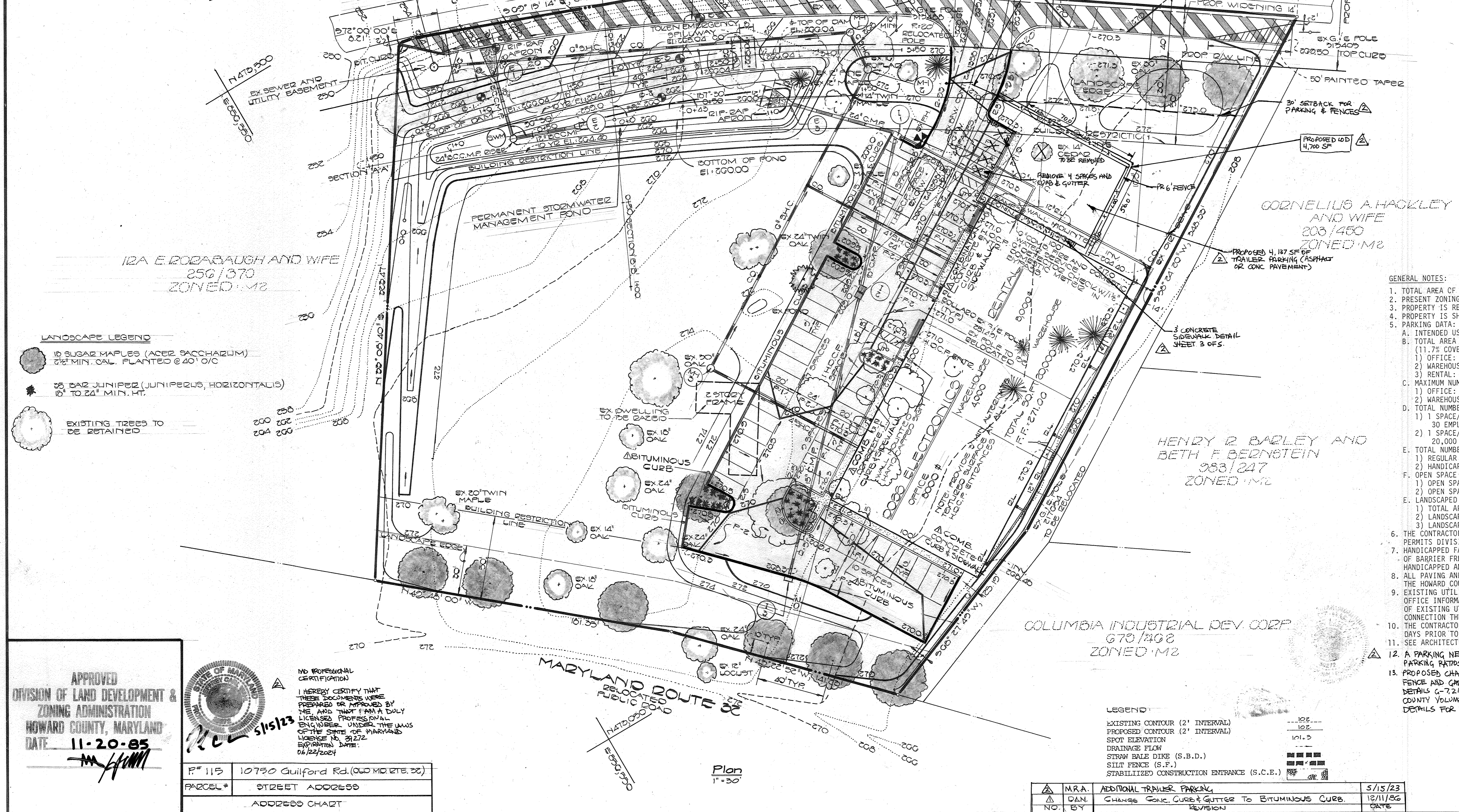
DESIGN STORM	ALLOWABLE RELEASE RATE	FACILITY INFLOW	FACILITY DISCHARGE	WATER SURFACE ELEVATION	STORAGE VOLUME (AC.FT.)
2 YEAR	2.5 cfs	9.6 cfs	2.5 cfs	262.99 ft.	0.56 ac.ft.
10 YEAR	7.3 cfs	16.6 cfs	4.3 cfs	264.48 ft.	1.01 ac.ft.
25 YEAR	8.7 cfs	18.5 cfs	8.1 cfs	264.73 ft.	1.13 ac.ft.
100 YEAR	13.9 cfs	24.3 cfs	15.0 cfs *	265.04 ft.	1.52 ac.ft.

STRUCTURE CLASSIFICATION: "a"
 STORAGE-HEIGHT PRODUCT: 9.2 < 3000
 WATERSHED AREA TO FACILITY (ACRES): 3.00 AC.±
 LEVEL OF MANAGEMENT PROVIDED BY FACILITY: 2 YR., 10 YR., 25 YR., and 100 YR.

NO.	TYPE	TOP ELEV.	INV. IN	INV. OUT	REMARKS
1-1	A-5	268.83	261.46	260.95	SD 4.01
1-2	DR. 15"	269.00	261.00	260.77	SD 4.23
1-3	A-5	269.13	--	268.06	SD 4.01
1-4	Meta End Sect.	259.50	--	258.00	SD 5.61
2	Meta End Sect.	260.00	259.00	--	SD 5.61
3	Meta End Sect.	262.00	--	260.00	SD 5.61
SMW	Special	--	259.00	259.00	See Detail



IMPERVIOUS NOTE: REVISION #2 PROPOSES AN ADDITIONAL 4,137 SF OF IMPERVIOUS AREA.



- LANDSCAPE LEGEND**
- 10 SUGAR MAPLES (ACE2 SACCHARUM) 2 1/2" MIN. CAL. PLANTED @ 40' O/C
 - 25 BAE JUNIPER (JUNIPERUS, HORIZONTALIS) 10' TO 24" MIN. HT.
 - EXISTING TREES TO BE RETAINED

- GENERAL NOTES:**
- TOTAL AREA OF PARCEL: 3.912 ACRES
 - PRESENT ZONING: M-2 (MANUFACTURING-HEAVY)
 - PROPERTY IS RECORDED IN LIBER 1324, FOLIO 001
 - PROPERTY IS SHOWN ON TAX MAP 48, PARCEL 115.
 - PARKING DATA:
 - A. INTENDED USE OF STRUCTURE: WAREHOUSE/OFFICE
 - B. TOTAL AREA OF BUILDING: 20,000 S.F. OR 0.459 AC.± (11.7% COVERAGE)
 - 1) OFFICE: 8,000 S.F.
 - 2) WAREHOUSE: 4,000 S.F.
 - 3) RENTAL: 8,000 S.F.
 - C. MAXIMUM NUMBER OF EMPLOYEES: 30
 - 1) OFFICE: 22
 - 2) WAREHOUSE: 8
 - D. TOTAL NUMBER OF SPACES REQUIRED: 40 SPACES
 - 1) 1 SPACE/2 EMPLOYEES PER MAJOR SHIFT: 30 EMPLOYEES ÷ 2 = 15
 - 2) 1 SPACE/500 S.F. OF FLOOR AREA: 20,000 S.F. ÷ 500 = 40
 - E. TOTAL NUMBER OF SPACES PROVIDED: 51 SPACES
 - 1) REGULAR SPACES (9' x 18'/20'): 49
 - 2) HANDICAPPED SPACES (13' x 18'): 2
 - F. OPEN SPACE (GREEN AREA):
 - 1) OPEN SPACE REQUIRED (20% MIN.): 0.78 AC.±
 - 2) OPEN SPACE PROVIDED: 2.61 AC.± (67%)
 - G. LANDSCAPED ISLANDS:
 - 1) TOTAL AREA OF PARKING LOT: 0.56 AC.±
 - 2) LANDSCAPED ISLANDS REQUIRED (5% MIN.): 1176 S.F.
 - 3) LANDSCAPED ISLANDS PROVIDED: 1260 S.F. (5.4%)
 - THE CONTRACTOR SHALL NOTIFY THE HOWARD COUNTY CONSTRUCTION INSPECTION/PERMITS DIVISION 24 HOURS PRIOR TO COMMENCEMENT OF WORK AT 992-2455.
 - HANDICAPPED FACILITIES TO BE CONSTRUCTED IN ACCORDANCE WITH "DESIGN OF BARRIER FREE FACILITIES" AND THE "MARYLAND BUILDING CODE FOR THE HANDICAPPED AND AGED".
 - ALL PAVING AND STORM DRAIN CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE HOWARD COUNTY ROAD CONSTRUCTION CODE AND STANDARD SPECIFICATIONS.
 - EXISTING UTILITIES SHOWN HEREON HAVE BEEN LOCATED FROM FIELD AND OFFICE INFORMATION. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF EXISTING UTILITIES OF HIS OWN SATISFACTION BEFORE MAKING ANY CONNECTION THERETO OR EXCAVATING IN THE AREA THEREOF.
 - THE CONTRACTOR SHALL NOTIFY MISS UTILITY 659-0100 A MINIMUM OF THREE DAYS PRIOR TO BEGINNING ANY CONSTRUCTION SHOWN HEREON.
 - SEE ARCHITECTURAL DRAWINGS FOR BUILDING DIMENSIONS.
 - A PARKING NEEDS STUDY WAS SUBMITTED TO UTILIZE THE ALTERNATE PARKING RATIOS BASED ON THE NUMBER OF EMPLOYEES.
 - PROPOSED CHAIN LINK FENCE AND GATE TO BE 6' IN HEIGHT MAXIMUM. FENCE AND GATE SHALL BE CONSTRUCTED PER HOWARD COUNTY STANDARD DETAILS G-7.1, G-7.2, AND G-7.23 AS SPECIFIED IN THE HOWARD COUNTY VOLUME IV DESIGN MANUAL STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION DATED MAY 30, 2017.

APPROVED
 DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION
 HOWARD COUNTY, MARYLAND
 DATE: 11-20-85

NO PROFESSIONAL CERTIFICATION
 I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND
 LICENSE NO. 39272
 EXPIRATION DATE: 06/22/2024

F# 115 10730 Guilford Rd. (OLD MD RTE. 32)
 PARCEL # STREET ADDRESS
 ADDRESS CHART

FISHER, COLLINS & CARTER, INC.
 CIVIL ENGINEERS & LAND SURVEYORS
 8388 COURT AVE.
 ELLICOTT CITY, MD. 21043
 (301) 461-2855

ENGINEER'S CERTIFICATE
 "I CERTIFY THAT THIS PLAN FOR POND CONSTRUCTION, EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS. THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT. I HAVE NOTIFIED THE DEVELOPER THAT HE MUST PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN AS-BUILT PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION."

STORM WATER MANAGEMENT POND CERTIFICATION AND APPROVAL
 DEVELOPER'S CERTIFICATE
 "I HEREBY CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THESE PLANS, AND THAT ANY 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 WILL PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN AS-BUILT PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION."

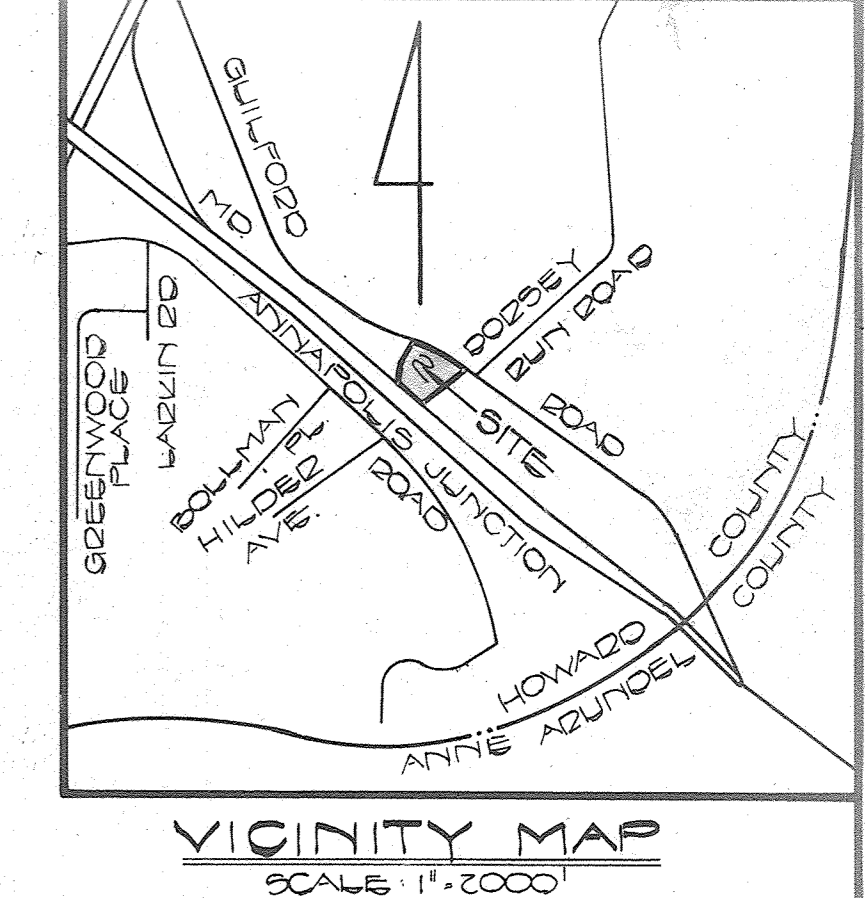
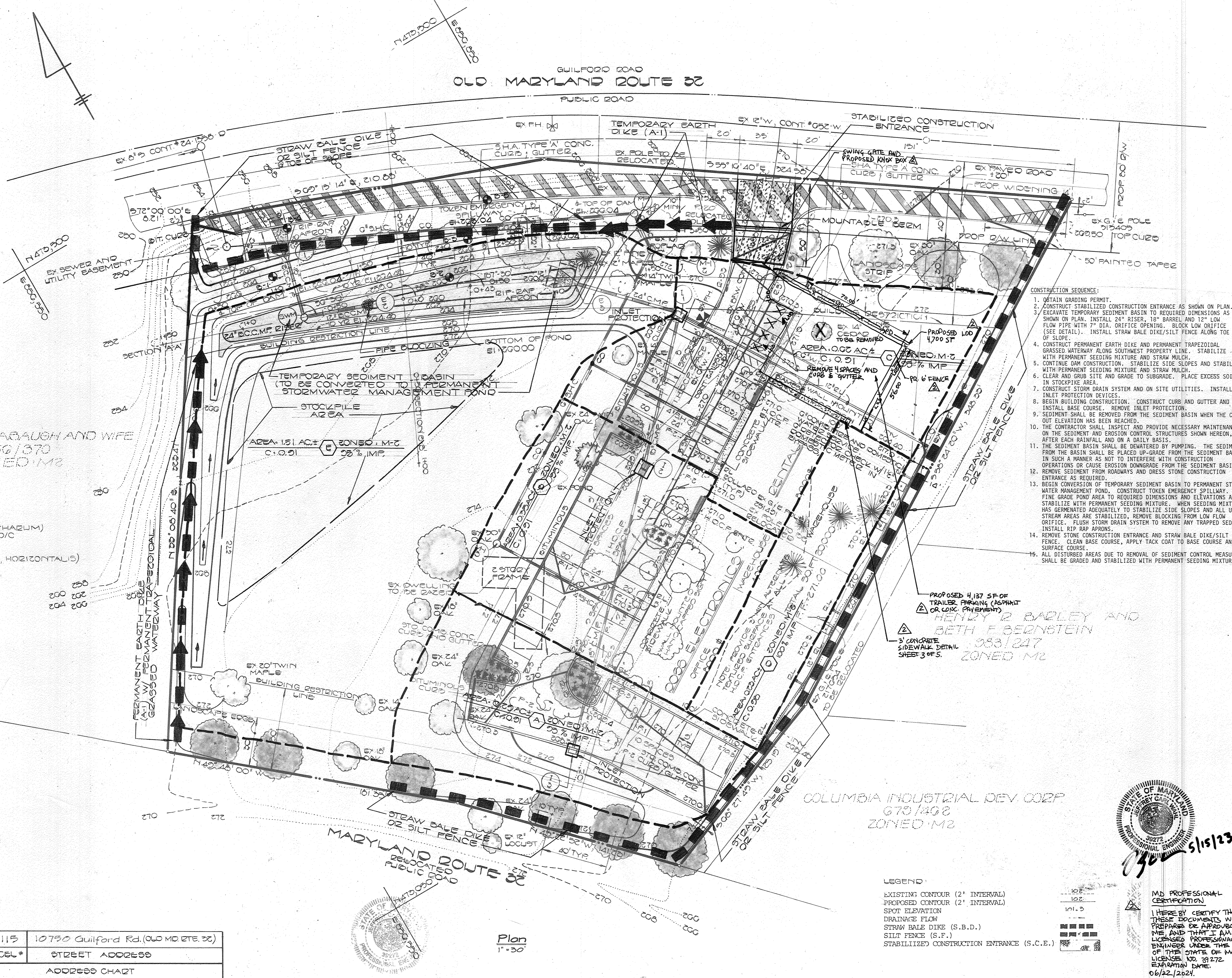
THESE PLANS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.
 HOWARD SOIL CONSERVATION DISTRICT
 THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL.
 HOWARD SOIL CONSERVATION SERVICE

APPROVED: OFFICE OF PLANNING AND ZONING
 PLANNING DIRECTOR
 APPROVED: DEPARTMENT OF PUBLIC WORKS FOR PUBLIC WATER AND SEWER AND STORM DRAINAGE SYSTEMS AND ROADS.
 CHIEF, BUREAU OF ENGINEERING
 DIRECTOR, PUBLIC WORKS
 APPROVED: HOWARD COUNTY HEALTH DEPARTMENT FOR PUBLIC WATER AND SEWERAGE SYSTEMS.
 HEALTH OFFICER

M.R.A.	ADDITIONAL TRAILER PARKING	DATE
Change Conc. Curb & Gutter to Bituminous Curb.		12/11/85
REVISION		

OWNER AND DEVELOPER:
 HERSHELL DOSS
 4253 MONTGOMERY ROAD
 ELLICOTT CITY, MARYLAND 21043
 (301) 465-1336

SITE DEVELOPMENT PLAN
 PROPERTY OF HERSHELL C. DOSS
 DOSS ELECTRONICS BUILDING
 TAX MAP 48 PARCEL 115
 6TH ELECTION DIST. HOWARD CO MD
 SCALE: AS SHOWN JULY 5, 1985
 REVISED: OCTOBER 20, 1985
 SHEET 1 OF 5



STORMWATER MANAGEMENT POND CONSTRUCTION SPECIFICATIONS

- SITE PREPARATION**
Areas under the embankment and structural works shall be cleared, grubbed and the topsoil stripped to remove all trees, vegetation, roots or other objectionable material. To facilitate clean out and restoration, it is recommended that the permanent pool area be cleared of all brush and trees.
- EARTH FILL**
Material
The fill material shall be taken from approved designated borrow area or areas. It shall be free from roots, stumps, wood, rubbish, over stones, frozen or other objectionable materials. The embankment shall be constructed to an elevation which provides for anticipated settlement to the design elevation. The fill height shall be at least 10 percent above the design elevation (including freeboard) unless otherwise shown on the plans. All fill material shall be CL or ML, as approved by Soils Engineer.
Placement
Areas in which fill is to be placed shall be scarified prior to placement of fill. Fill materials shall be placed in 8-inch maximum thickness (before compaction) layers which are to be continuous over the entire length of the fill. The most porous borrow material shall be placed in the downstream portions of the embankment.
Compaction
The movement of the hauling and spreading equipment over the fill shall be controlled so that the entire surface of each lift shall be traversed by not less than one tread track of the equipment, or compaction shall be achieved by a minimum of four complete passes of a sheepsfoot, rubber tired or vibratory roller. Fill material shall contain sufficient moisture so that it can be formed into a ball without crusting. If water can be squeezed out of the ball, it is too wet to compact properly. Compact all fill material to 95% of AASHTO T-99 density.
Core Trench
Where specified, a core trench shall be excavated along or parallel to the centerline of the embankment, as shown on the plans. The bottom width of the trench shall be governed by the equipment used for excavation with the minimum width being 4 feet. The depth shall be at least 4 feet or as shown on the plans. The side slopes of the trench shall be 1:1 or flatter. The backfill material for the core trench shall be the most impervious material available and shall be compacted with equipment or rollers to assure maximum density and minimum permeability. Compact to 95% of AASHTO T-99 density. Materials shall be CL or ML as approved by Soils Engineer.
- STRUCTURAL BACKFILL**
Backfill material shall be of the type and quality conforming to that specified for the adjoining fill material. The fill shall be placed in horizontal layers not to exceed 4 inches in thickness and compacted by hand tampers or other compaction equipment. The material needs to fill completely all spaces under and adjacent to the pipe. At no time during the backfilling operation shall any equipment be allowed to operate closer than 4 feet to any part of a structure. Under no circumstances shall the contractor be permitted to remove any structure or pipe or pipe. If a structure is compacted fill of 2 feet or greater over the structure or pipe.
- PIPE CONDUITS**
Corrugated Metal Pipe
Materials (Steel Pipe) - This pipe and its appurtenances shall be galvanized and fully bituminous coated and shall conform to the AASHTO Specification M-190, Type 'A' with watertight coupling bands. Any bituminous coating damaged or otherwise removed shall be replaced with cold applied bituminous coating compound. Gauge of pipe shall be as specified on the plans.
Connections - All connections with pipes must be completely watertight. The drain pipe or barrel connection to the riser shall be continuously welded all around. Watertight coupling bands with rubber gaskets shall be used at all joints. Anti-seep collars shall be connected to the pipe in such a manner as to be completely watertight.
Bedding - The pipe shall be firmly and uniformly bedded throughout its entire length. Where rock or soft, spongy or other unstable soil is encountered, all such material shall be removed and replaced with suitable earth compacted to provide adequate support.
Laying Pipe - The pipe shall be placed with inside circumferential laps pointing downstream and with the longitudinal laps at the sides. Backfilling shall conform to structural backfill as shown above. Other details (anti-seep collars, etc.) shall be as specified on the plans.
- CONCRETE**
Concrete shall meet minimum requirements set forth in Maryland State Highway Administration Specifications for Materials, Highways, Bridges, and Incidental Structures, Article 20.07 (Portland Cement Concrete Mixtures), Mix No. 3 - unless otherwise specified.
- STABILIZATION**
All borrow areas shall be graded to provide proper drainage and left in a slightly condition. All exposed surfaces of the embankment, spillway and borrow areas shall be stabilized by permanent seeding and applying straw mulch in accordance with "Standards and Specifications for Soil Erosion and Sediment Control in Urbanizing Areas" immediately after final grading.
Fertilizer: 10-10-10 @ 11.5 lbs/1000 sq. ft.
Seed: Crownvetch inoculated @ 0.5 lbs/1000 sq. ft.
"3-1" Tall Fescue @ 1.0 lbs/1000 sq. ft.
Mulch: Straw @ 80 lbs/1000 sq. ft.
Asphalt Tie-down: Flat areas @ 5 gal/1000 sq. ft.
- FENCING**
A 3' x 6' chain-link fence shall be constructed in the location specified on the plan and construction shall be in accordance with Maryland State Highway Administration Standard Details 690.01 and 690.02.

12A E. BOBAGAUGH AND WIFE
256/370
ZONED M2

- LANDSCAPE LEGEND**
- 10 SUGAR MAPLES (ACEQ SACCHARUM)
2 1/2" MIN. CAL. PLANTED @ 40' O/C
 - 25 B&Z JUNIPER (JUNIPERUS, HORIZONTALIS)
16" TO 24" MIN. HT.
 - EXISTING TREES TO BE RETAINED

APPROVED
DIVISION OF LAND DEVELOPMENT &
ZONING ADMINISTRATION
HOWARD COUNTY, MARYLAND
DATE 11-20-85

R# 115	10730 Guilford Rd. (Old MD Rte. 32)
PARCEL #	STREET ADDRESS
	ADDRESS CHART

FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERS & LAND SURVEYORS
8388 COURT AVE.
ELLICOTT CITY, MD. 21043
(301) 461-2855

ENGINEER'S CERTIFICATE
"I CERTIFY THAT THIS PLAN FOR POND CONSTRUCTION, EROSION AND SEDIMENT CONTROL, REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS. THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT. I HAVE NOTIFIED THE DEVELOPER THAT HE MUST PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN AS-BUILT PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION."

CHARLES J. CARTER
12/11/85

STORM WATER MANAGEMENT POND CERTIFICATION AND APPROVAL
DEVELOPER'S CERTIFICATE
"I HEREBY CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THESE PLANS, AND THAT ANY 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 WILL PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN AS-BUILT PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION."

Harold Wilson
12/11/85

THESE PLANS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

Robert W. Ziem
12/17/85

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL.

James M. Nelson
12/16/85

APPROVED: OFFICE OF PLANNING AND ZONING
PLANNING DIRECTOR
12-30-85
DATE

APPROVED: HOWARD COUNTY HEALTH DEPARTMENT FOR PUBLIC WATER AND SEWERAGE SYSTEMS.
HEALTH OFFICER
12-23-85
DATE

APPROVED: DEPARTMENT OF PUBLIC WORKS FOR PUBLIC WATER AND SEWER AND STORM DRAINAGE SYSTEMS AND ROADS.
CHIEF, BUREAU OF ENGINEERING
12-19-85
DATE

DIRECTOR, PUBLIC WORKS
12-19-85
DATE

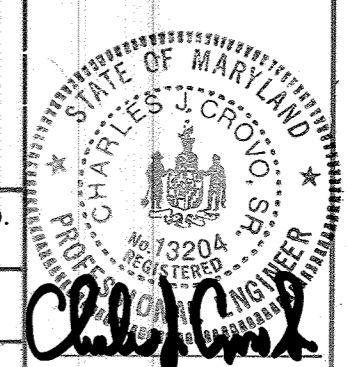
SEDIMENT CONTROL PLAN DRAINAGE AREA MAP
PROPERTY OF
HERSCHELL C. BOSS
BOSS ELECTRONICS BUILDING
TAX MAP 40 PARCEL 115
6TH ELECTION DIST. HOWARD CO. MD
SCALE: AS SHOWN JULY 5, 1985
REVISED: OCTOBER 20, 1985
SHEET 2 OF 5

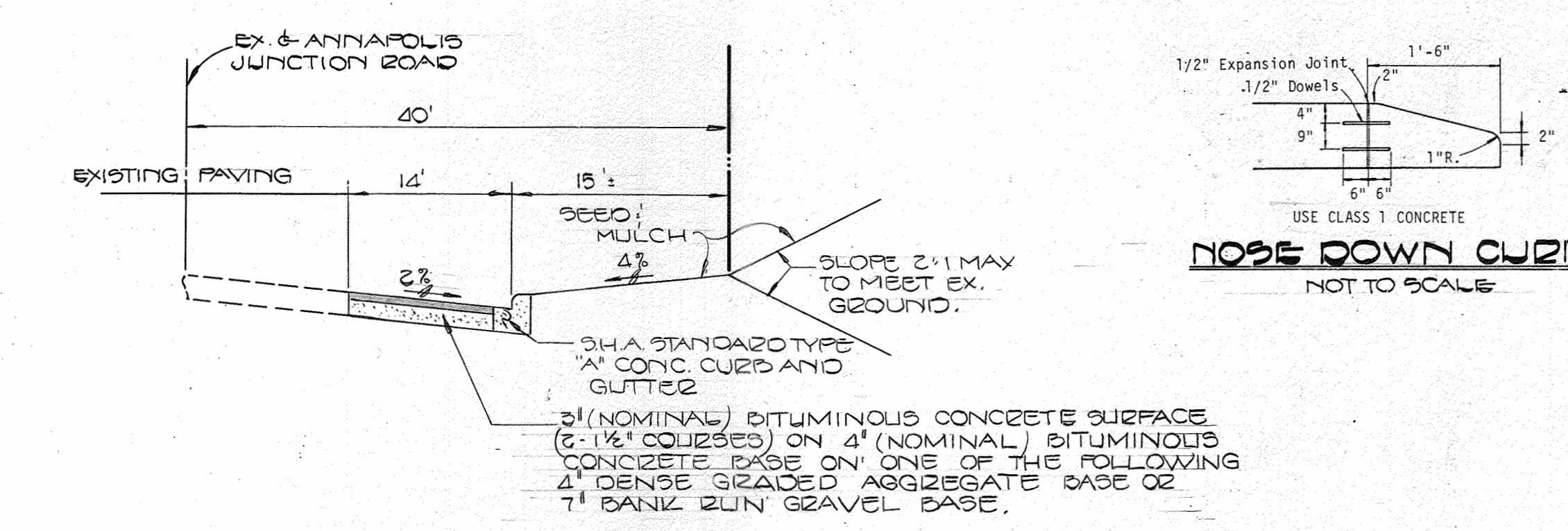
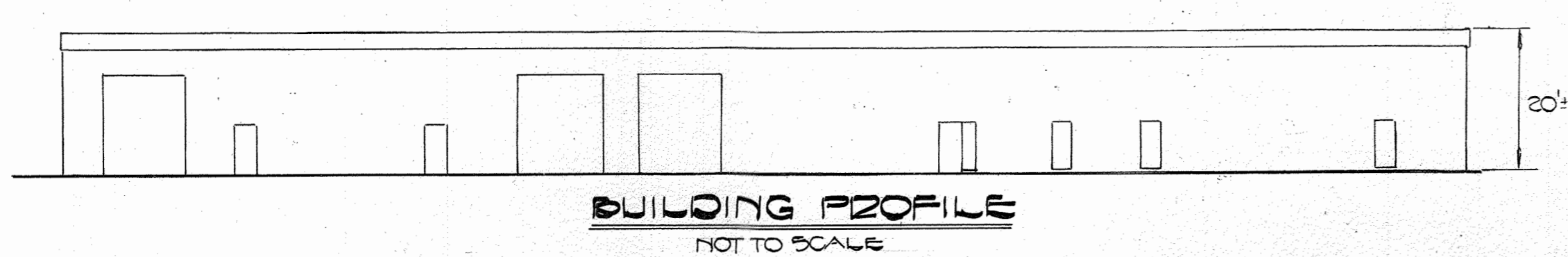
OWNER AND DEVELOPER:
HERSCHELL BOSS
4253 MONTGOMERY ROAD
ELLICOTT CITY, MARYLAND 21043
(301) 465-1336



MD PROFESSIONAL CERTIFICATION
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A FULLY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.
LICENSE NO. 29274
EXPIRATION DATE: 06/22/2024.

- LEGEND**
- EXISTING CONTOUR (2' INTERVAL)
 - PROPOSED CONTOUR (2' INTERVAL)
 - SPOT ELEVATION
 - DRAINAGE FLOW
 - STRAW BALE DIKE (S.B.D.)
 - SILT FENCE (S.F.)
 - STABILIZED CONSTRUCTION ENTRANCE (S.C.E.)

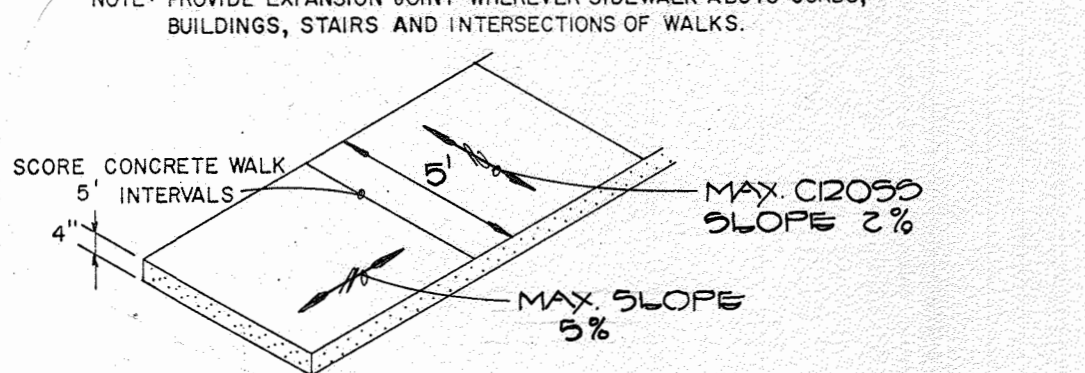




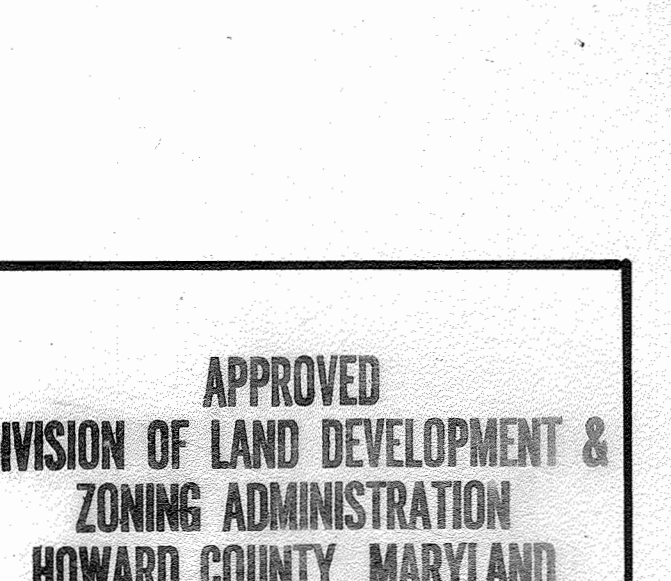
TYPICAL WIDENING SECTION
NOT TO SCALE

- 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 (992-2437).
 - 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.
 - 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, 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 SEDIMENT TRAPS/BASINS SHOWN MUST BE FENCED AND WARNING SIGNS POSTED AROUND THEIR PERIMETER IN ACCORDANCE WITH VOL. 1, CHAPTER 12, OF THE HOWARD COUNTY DESIGN MANUAL, STORM DRAINAGE.
 - 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) SOO (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 GRASSES.
 - 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	5.012 ACRES
AREA DISTURBED	2.100 ACRES
AREA TO BE VEGETATIVELY STABILIZED	1.210 ACRES
TOTAL CUT	2,000 CU. YDS.
TOTAL FILL	0 CU. YDS.
 - OFFSITE WASTE/BORROW AREA LOCATION
 - ANY SEDIMENT CONTROL PRACTICE WHICH IS DISTURBED BY GRADING ACTIVITY FOR PLACEMENT OF UTILITIES MUST BE REPAIRED ON THE SAME DAY OF DISTURBANCE.
 - ADDITIONAL SEDIMENT CONTROL MEASURES MUST BE PROVIDED, IF DEEMED NECESSARY BY THE HOWARD COUNTY DPM SEDIMENT CONTROL INSPECTOR.



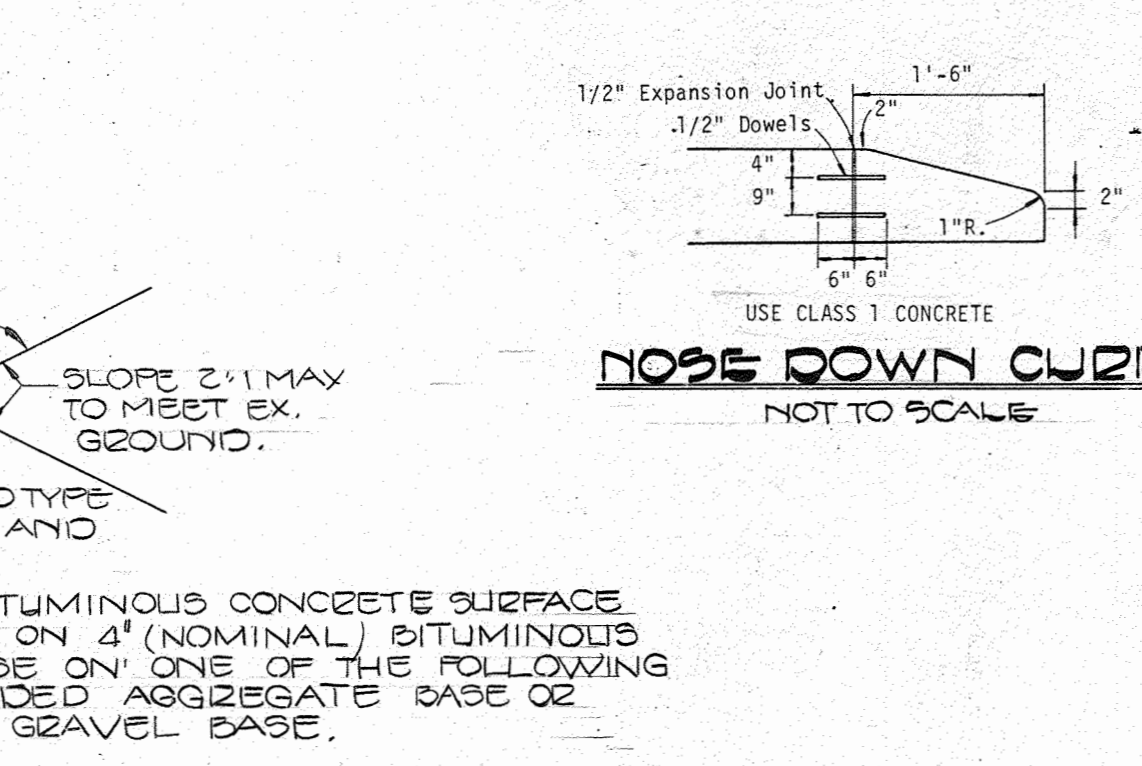
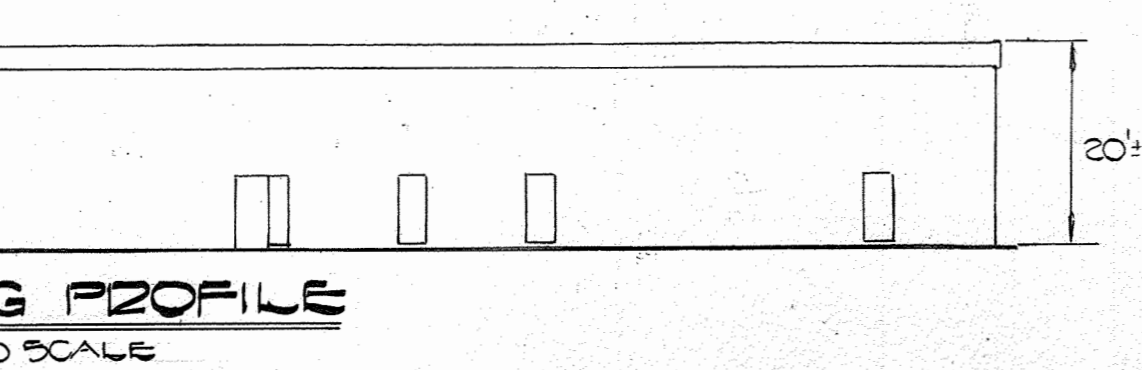
TYPICAL SIDEWALK DETAIL
NOT TO SCALE



TREE PLANTING
NOT TO SCALE

APPROVED
DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION
HOWARD COUNTY, MARYLAND
DATE 11-20-85

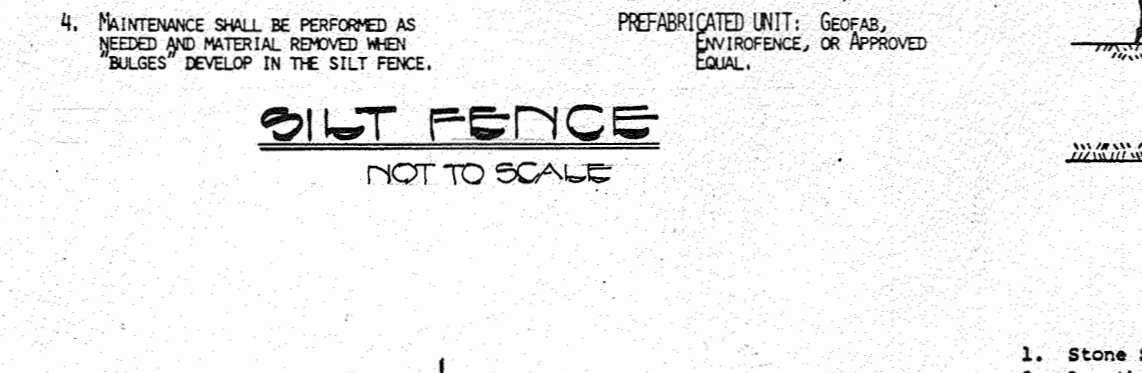
FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERS & LAND SURVEYORS
8388 COURT AVE.
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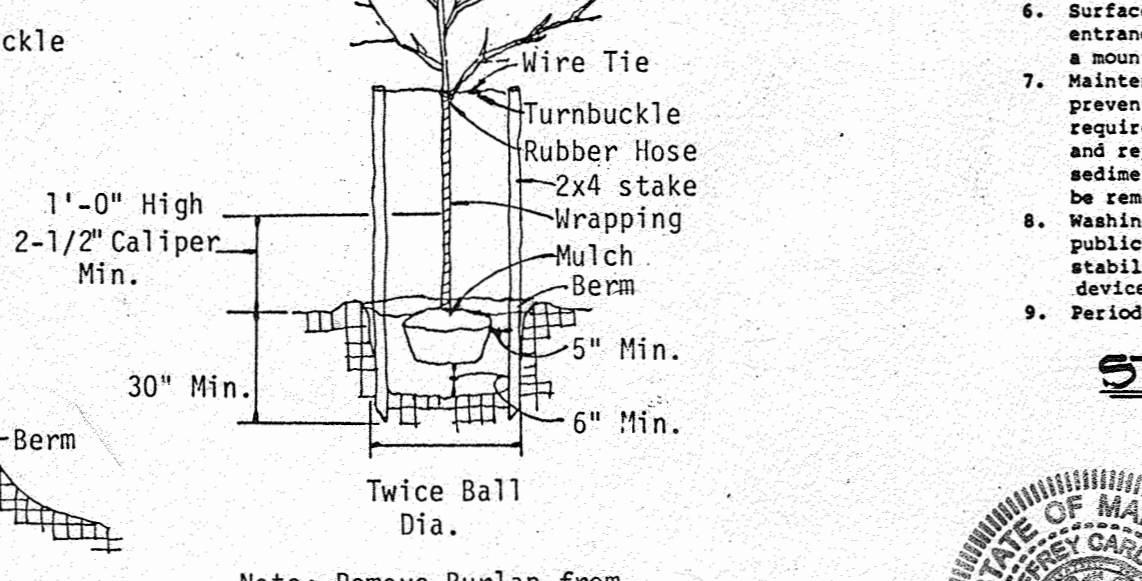
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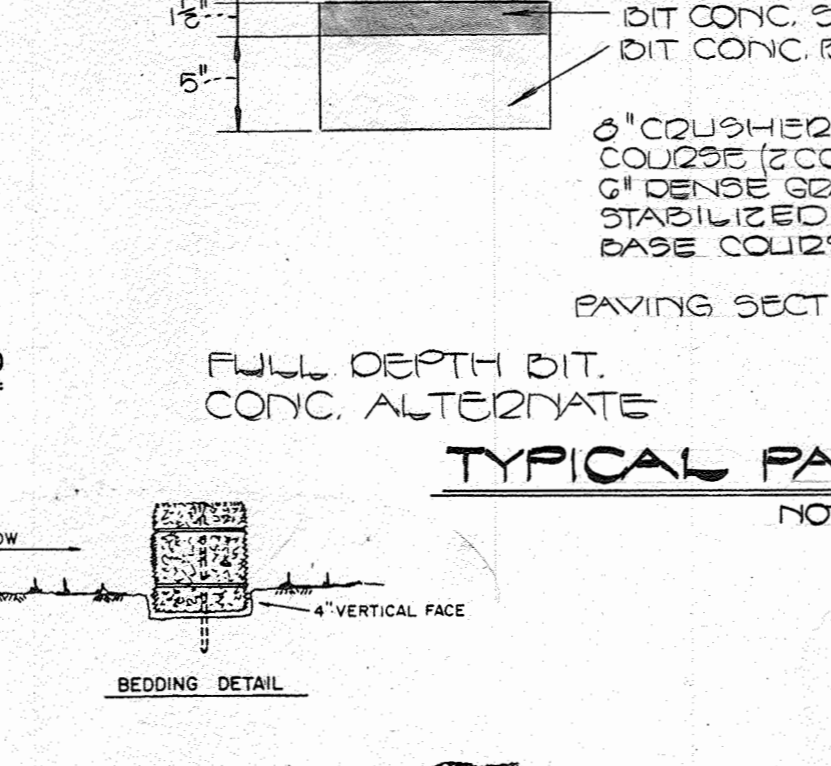
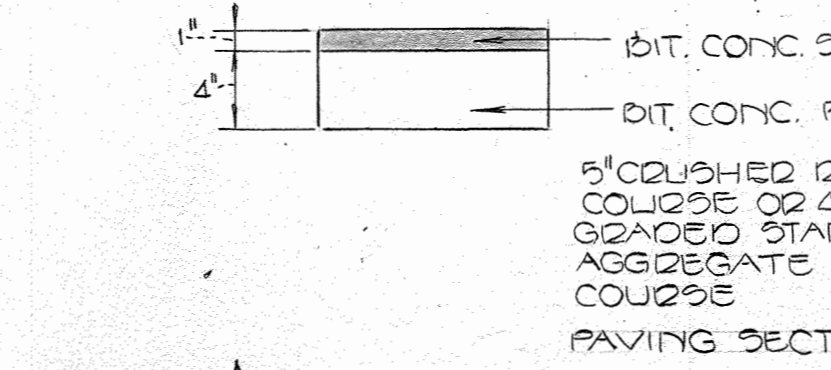
TYPICAL SIDEWALK DETAIL
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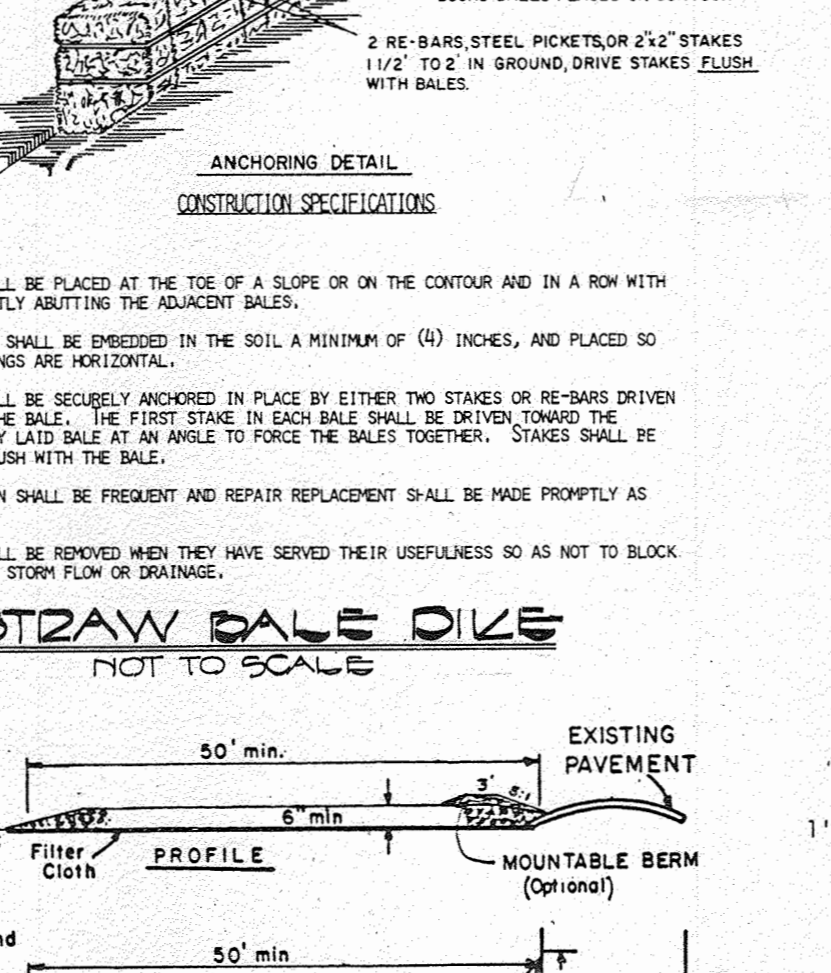
TREE PLANTING
NOT TO SCALE

APPROVED
DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION
HOWARD COUNTY, MARYLAND
DATE 11-20-85

FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERS & LAND SURVEYORS
8388 COURT AVE.
ELLICOTT CITY, MD. 21043
(301) 461-2855



TYPICAL PAVING SECTIONS
NOT TO SCALE

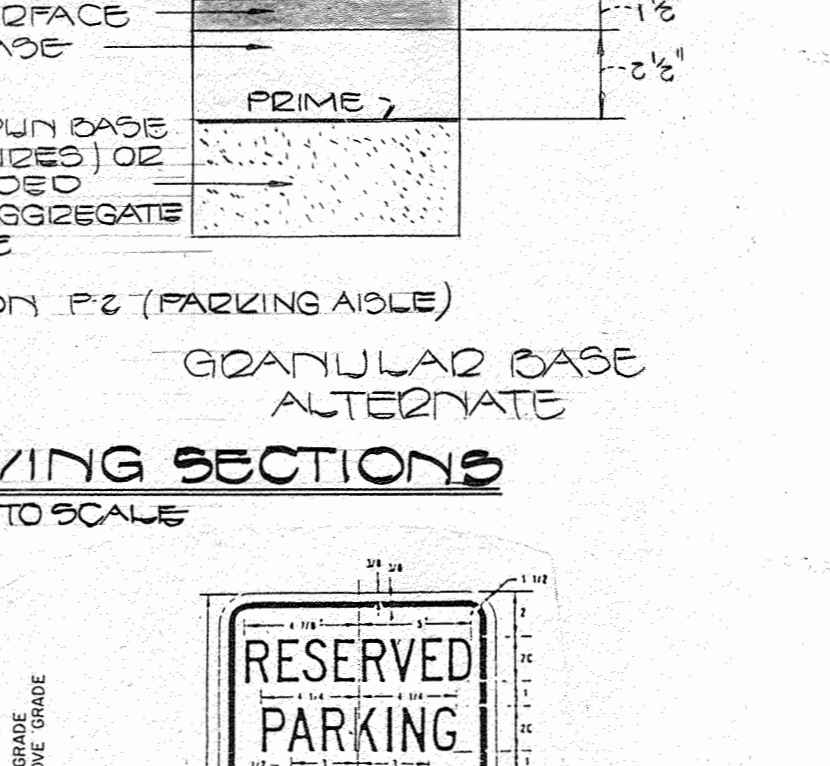
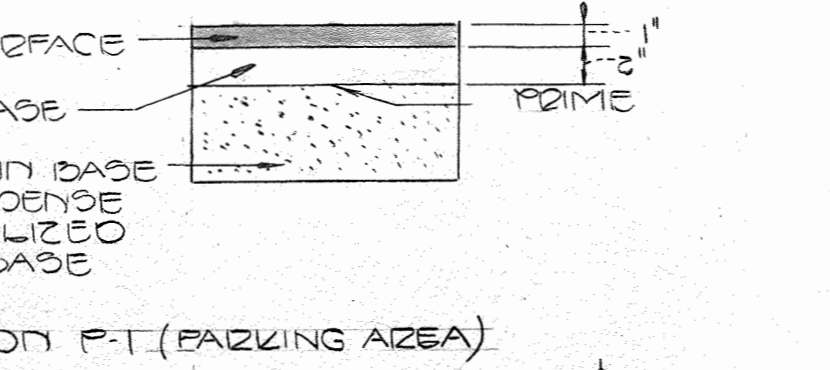


STRAW BALE DIKE
NOT TO SCALE

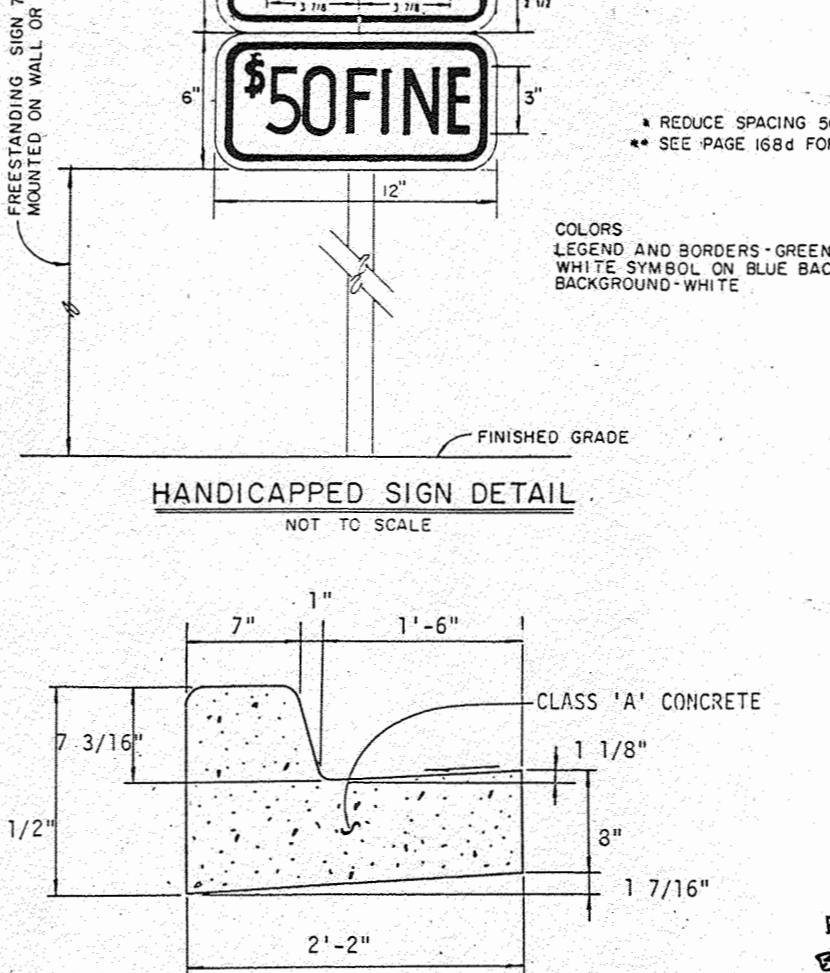
- BALES SHALL BE PLACED AT THE TOE OF A SLOPE OR ON THE CONTOUR AND IN A ROW WITH ENDS TIGHTLY ADJUTING THE ADJACENT BALES.
- EACH BALE SHALL BE SPACED IN THE SOIL A MINIMUM OF (4) INCHES, AND PLACED SO THE BINDINGS ARE HORIZONTAL.
- BALES SHALL BE SECURELY ANCHORED IN PLACE BY EITHER TWO STAKES OR RE-BARS DRIVEN THROUGH THE BALE. THE FIRST STAKE IN EACH BALE SHALL BE DRIVEN TOWARD THE PROTECTIVE SIDE 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.

STABILIZED CONSTRUCTION ENTRANCE
NOT TO SCALE

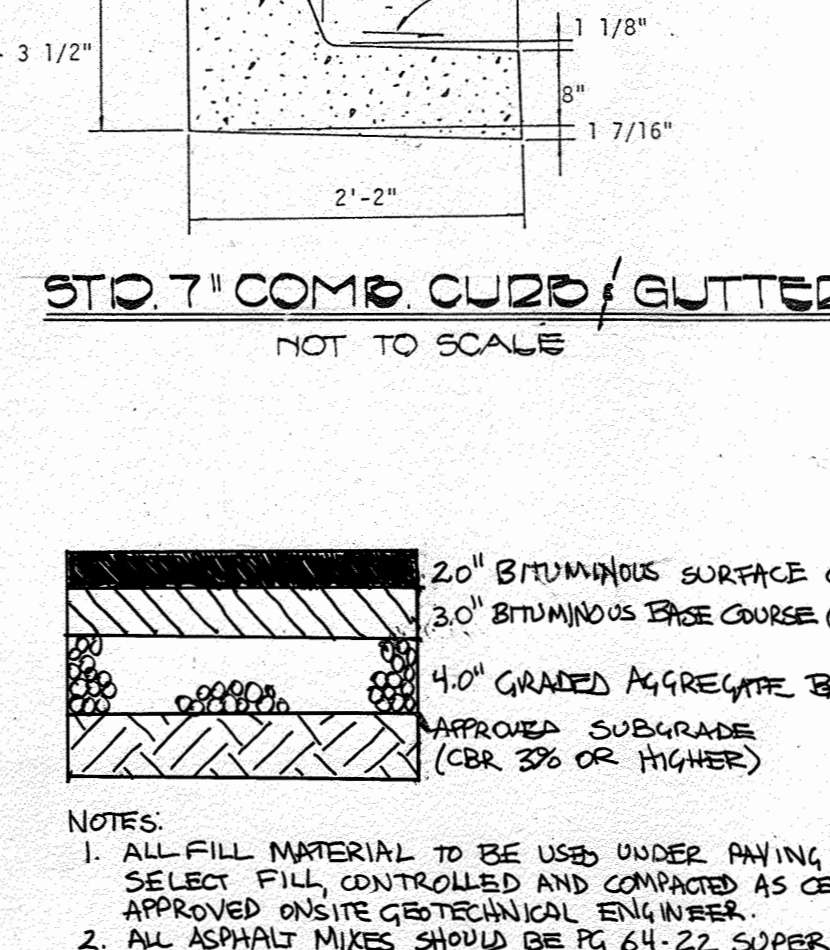
PROFESSIONAL CERTIFICATE
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND LICENSE NO. 91272 EXPIRES DATE: 06/22/2024



TYPICAL PAVING SECTIONS
NOT TO SCALE

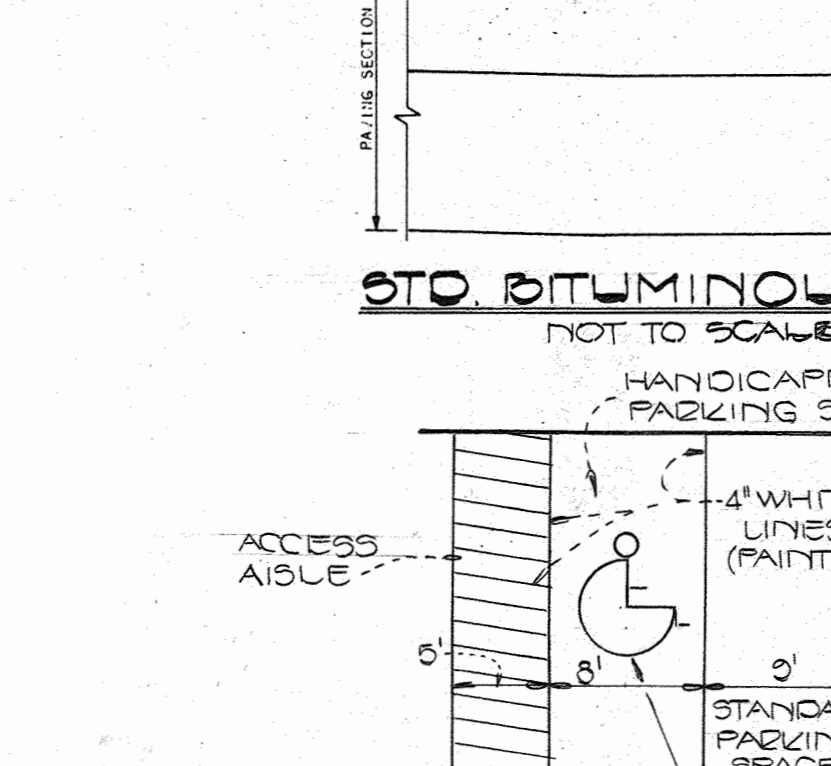
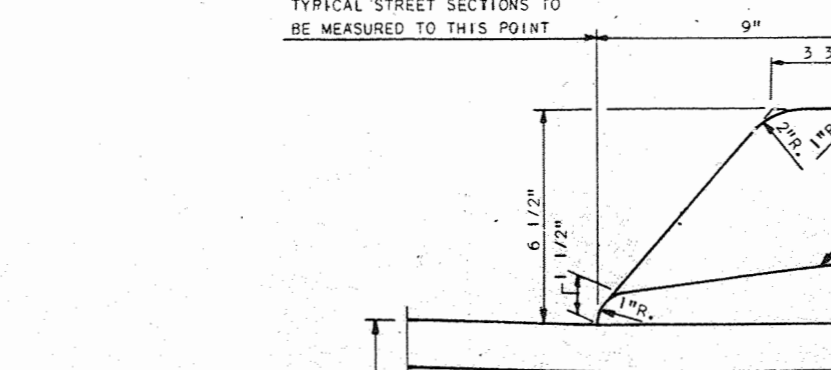


HANDICAPPED SIGN DETAIL
NOT TO SCALE

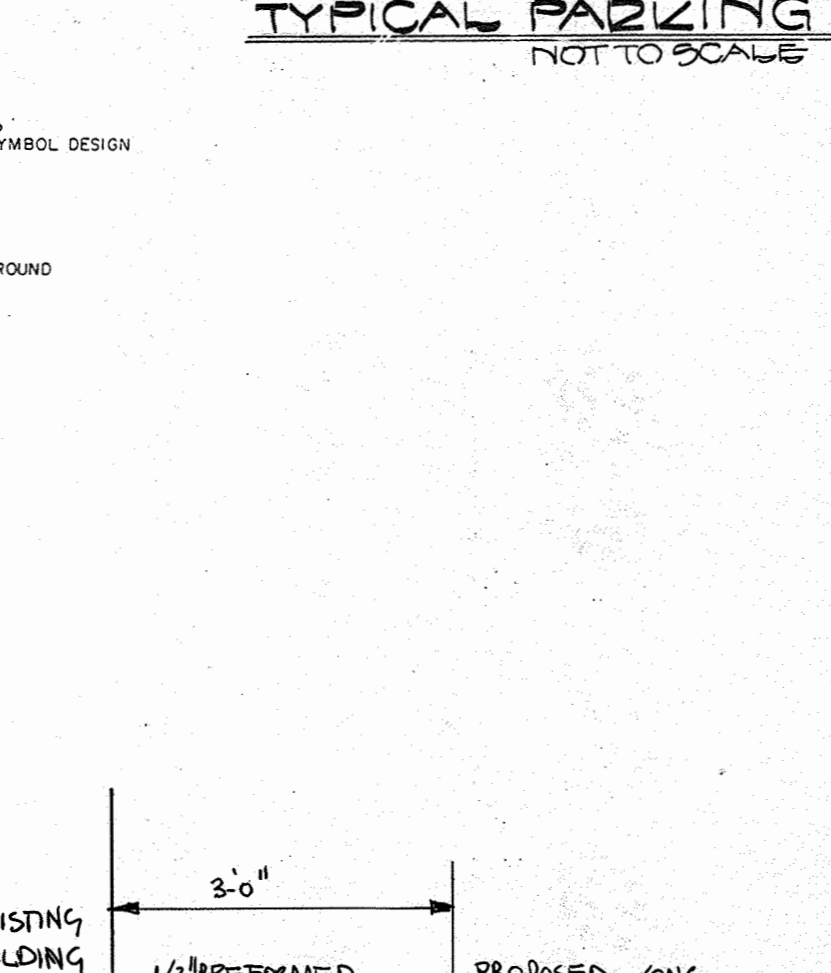


CONCRETE SIDEWALK
NOT TO SCALE

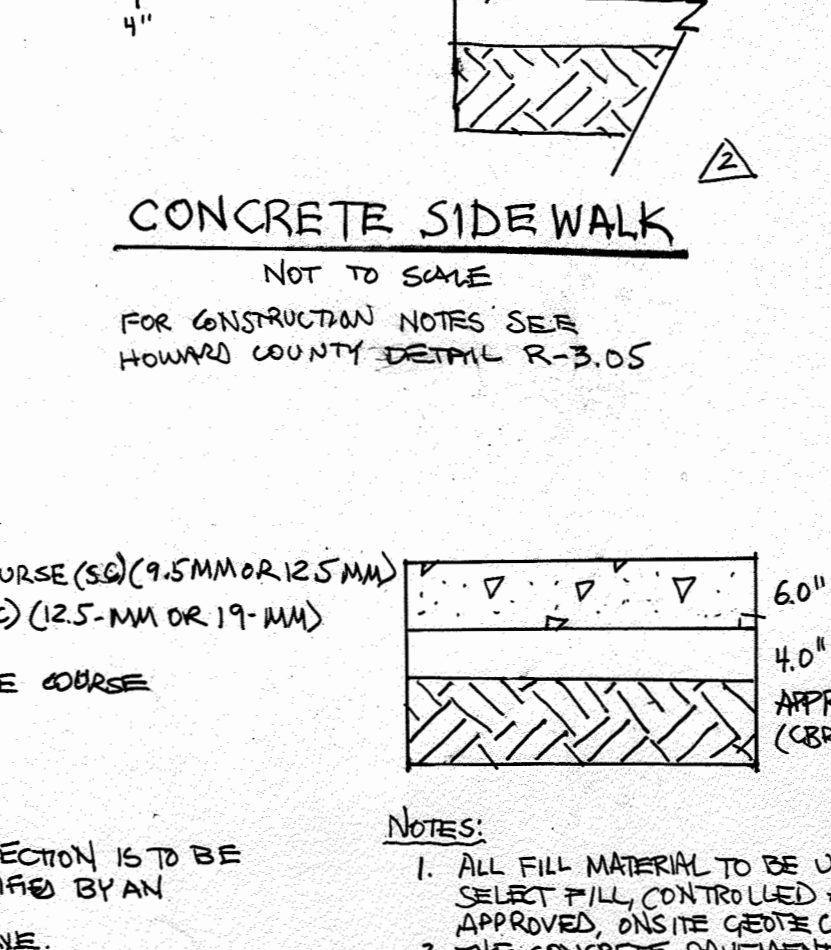
HEAVY DUTY - BITUMINOUS PAVEMENT
AUTO & TRUCK TRAFFIC
NOT TO SCALE



STO. BITUMINOUS CURB
NOT TO SCALE

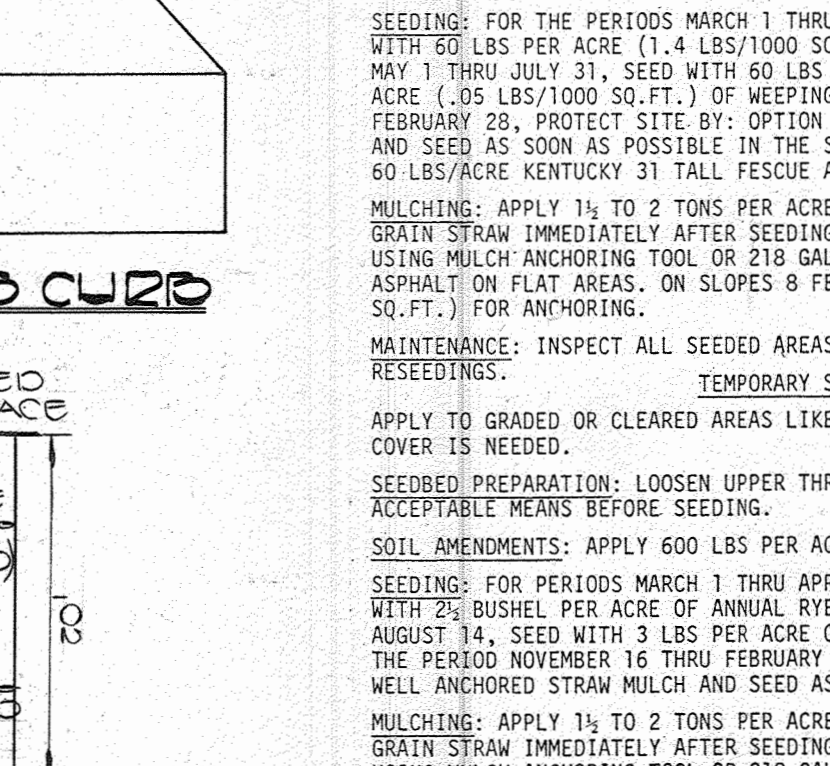
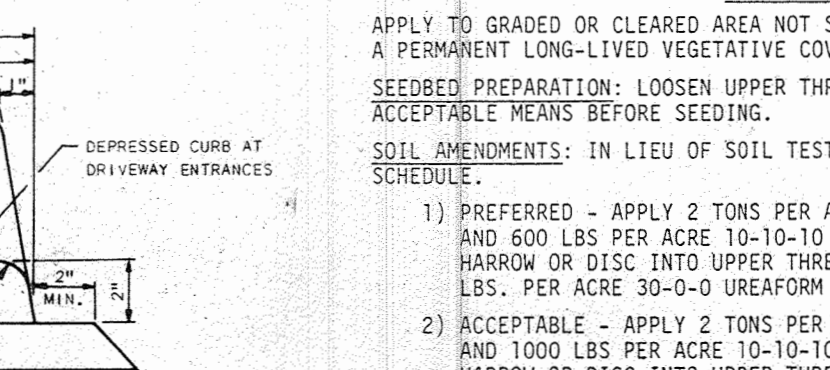


HANDICAPPED RAMP DETAIL
NOT TO SCALE

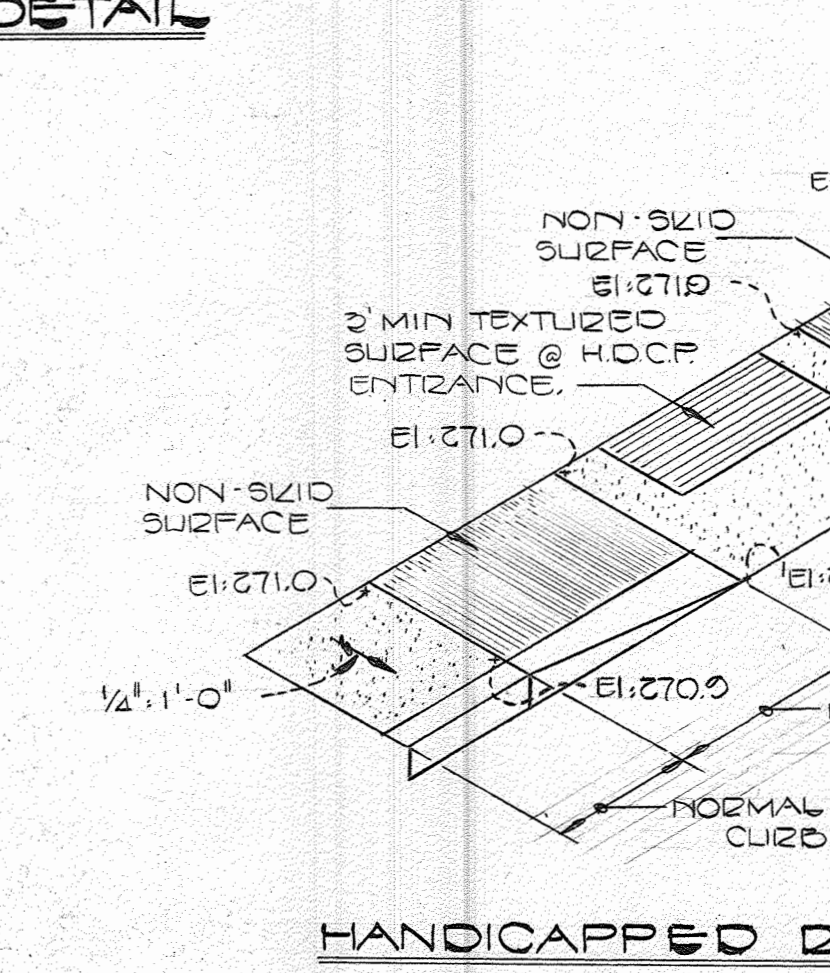


CONCRETE SIDEWALK
NOT TO SCALE

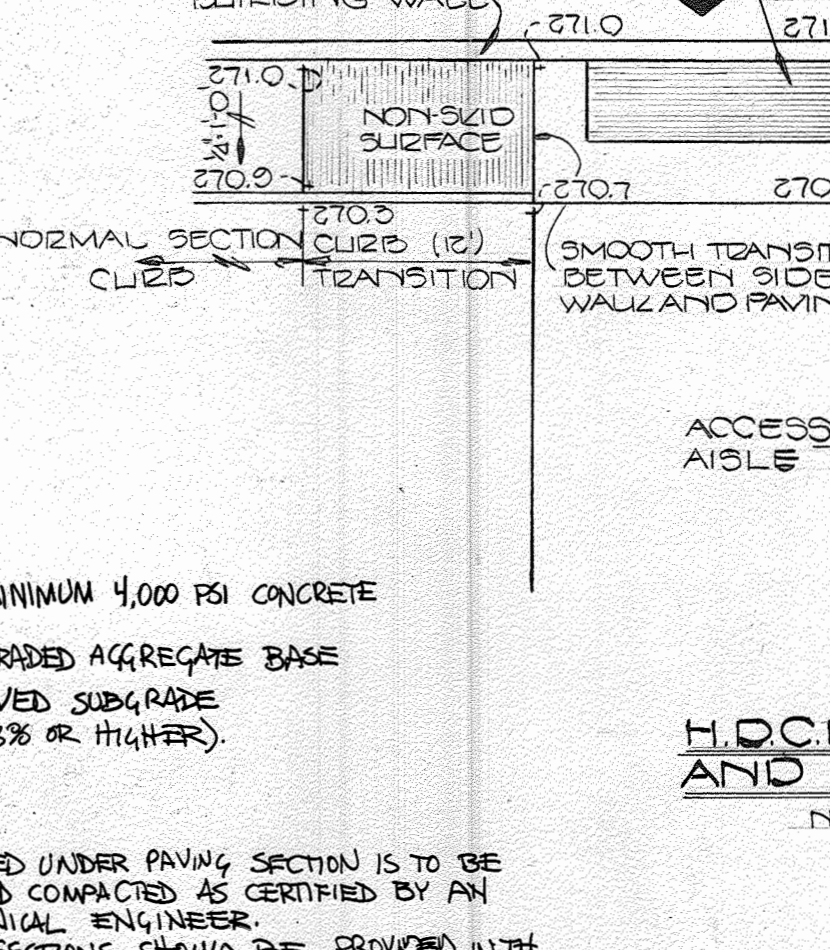
HEAVY DUTY - BITUMINOUS PAVEMENT
AUTO & TRUCK TRAFFIC
NOT TO SCALE



HANDICAPPED RAMP DETAIL
NOT TO SCALE



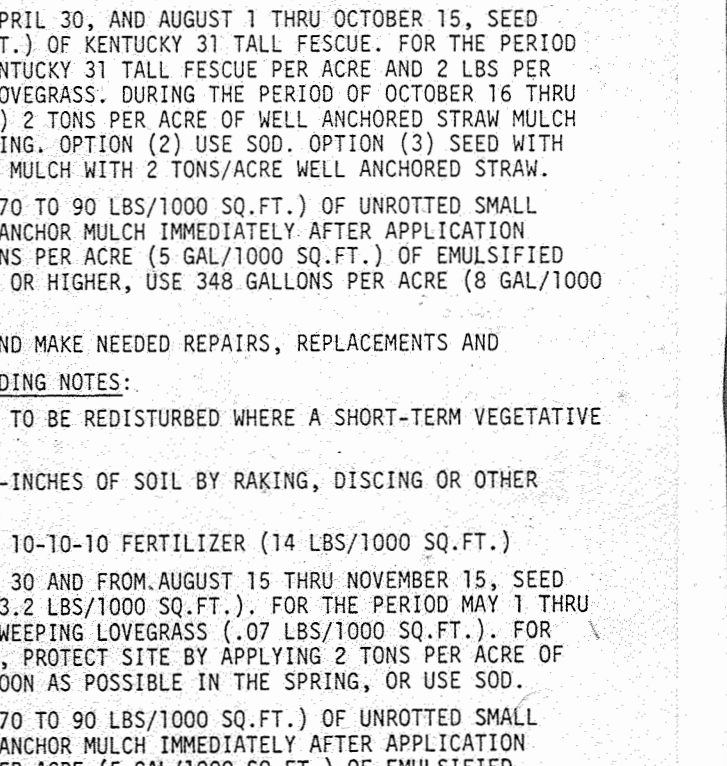
CONCRETE SIDEWALK
NOT TO SCALE



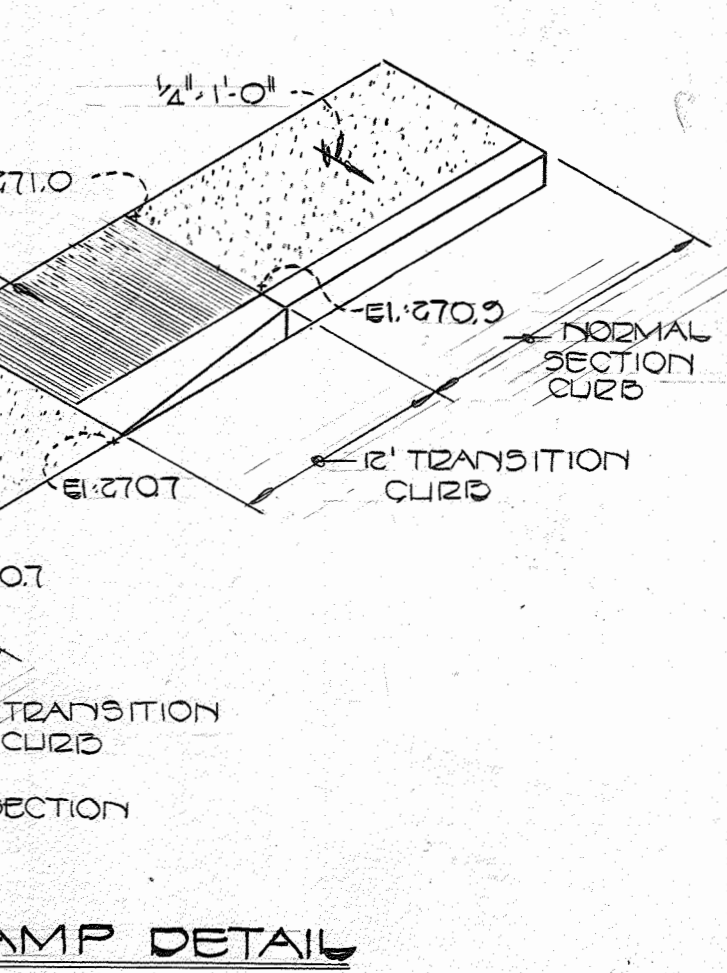
HANDICAPPED RAMP DETAIL
NOT TO SCALE

HEAVY DUTY - BITUMINOUS PAVEMENT
AUTO & TRUCK TRAFFIC
NOT TO SCALE

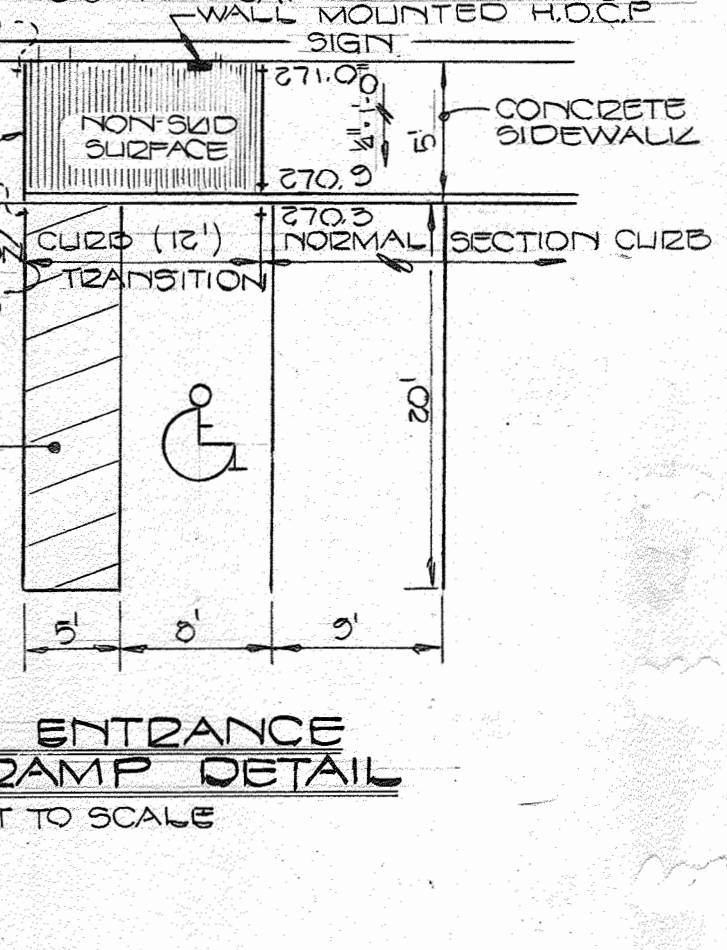
PERMANENT SEEDING NOTES:
APPLY TO GRADED OR CLEARED AREA NOT SUBJECT TO IMMEDIATE FURTHER DISTURBANCE WHERE A PERMANENT LONG-LIVED VEGETATIVE COVER IS NEEDED.
SEEDBED PREPARATION: LOOSEN UPPER THREE-INCHES OF SOIL BY RAKING, DISCING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING.
SOIL AMENDMENTS: IN LIEU OF SOIL TEST RECOMMENDATIONS, USE ONE OF THE FOLLOWING SCHEDULE:
1) PREFERRED - 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.).
2) 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 THE PERIODS MARCH 1 THRU APRIL 30, AND AUGUST 1 THRU OCTOBER 15, SEED WITH 60 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 (70 TO 90 LBS/1000 SQ. FT.) OF UNROTTED SMALL GRAIN 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.
SEEDBED 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 20 BUSHEL PER ACRE OF ANNUAL RYE (8 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 (70 TO 90 LBS/1000 SQ. FT.) OF UNROTTED SMALL GRAIN STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 210 GAL 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.



HANDICAPPED RAMP DETAIL
NOT TO SCALE



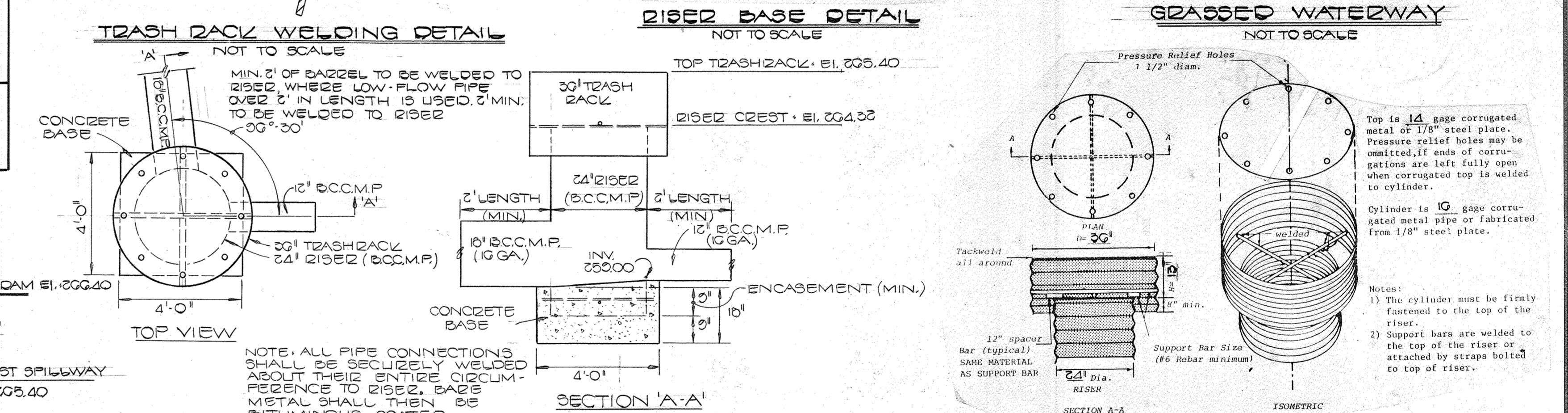
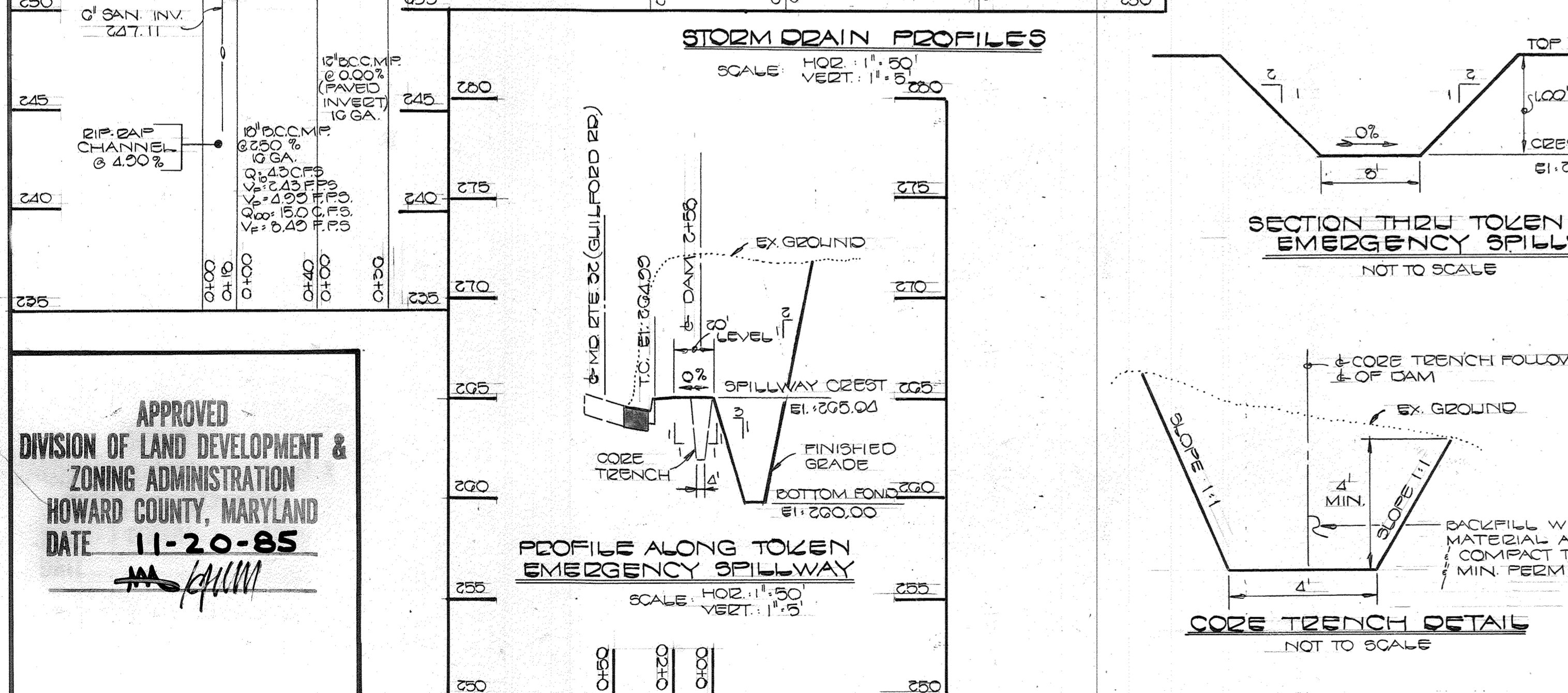
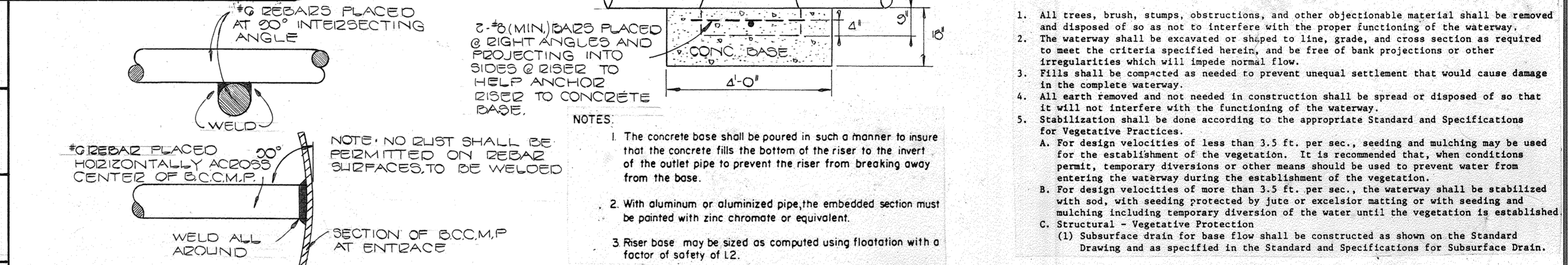
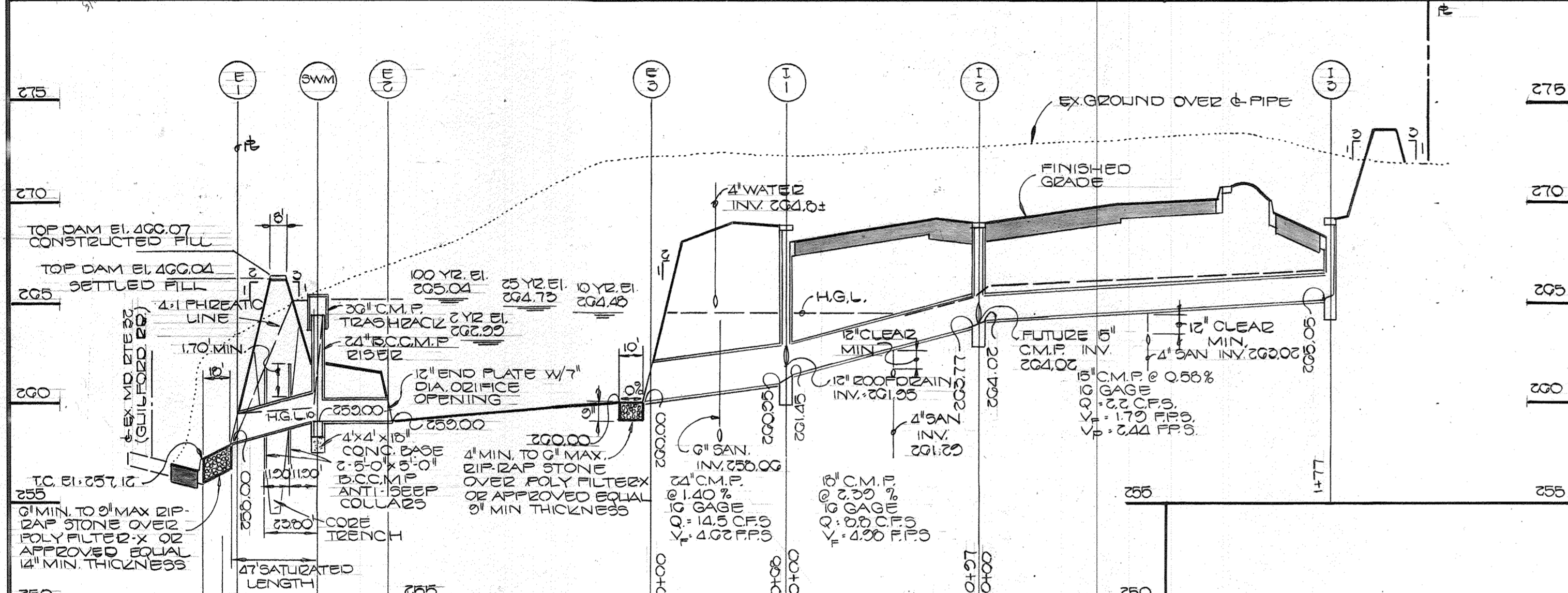
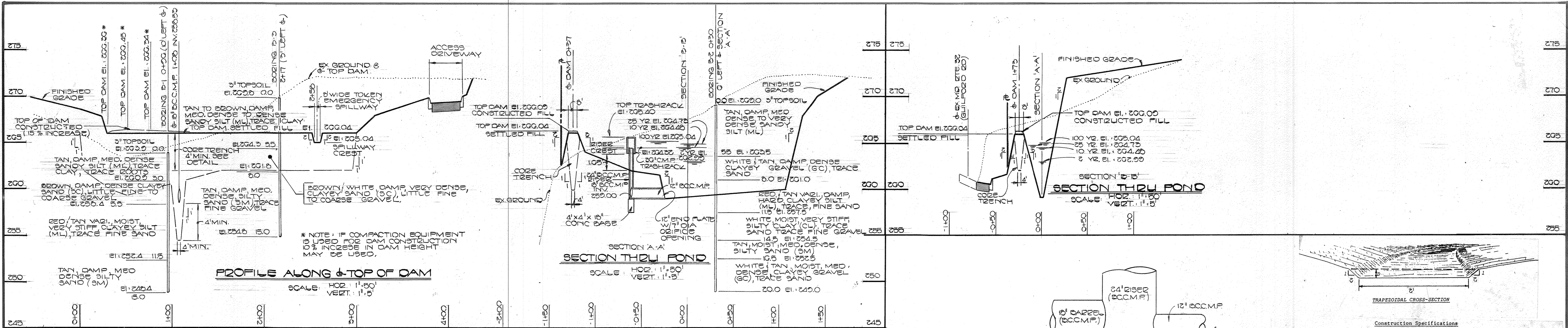
CONCRETE SIDEWALK
NOT TO SCALE



HANDICAPPED RAMP DETAIL
NOT TO SCALE

HEAVY DUTY - BITUMINOUS PAVEMENT
AUTO & TRUCK TRAFFIC
NOT TO SCALE

OWNER AND DEVELOPER:
HERSCHELL DOSS
4253 MONTGOMERY ROAD
ELLICOTT CITY, MARYLAND 21043
(301) 465-1336



APPROVED
DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION
HOWARD COUNTY, MARYLAND
DATE 11-20-85

ENGINEER'S CERTIFICATE
"I CERTIFY THAT THIS PLAN FOR POND CONSTRUCTION, EROSION AND SEDIMENT CONTROL, REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS. THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT. I HAVE NOTIFIED THE DEVELOPER THAT HE MUST PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN AS-BUILT PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION."

FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERS & LAND SURVEYORS
8388 COURT AVENUE
ELLICOTT CITY, MARYLAND 21043
(301) 461-2855

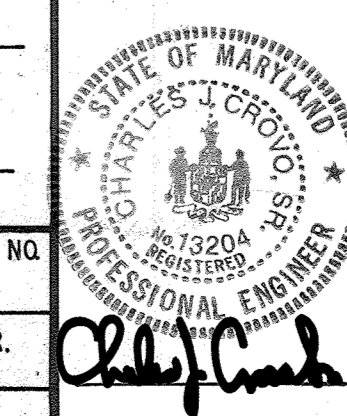
STORM WATER MANAGEMENT POND CERTIFICATION AND APPROVAL
DEVELOPER'S CERTIFICATE
"I HEREBY CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THESE PLANS, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I WILL PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN AS-BUILT PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION."

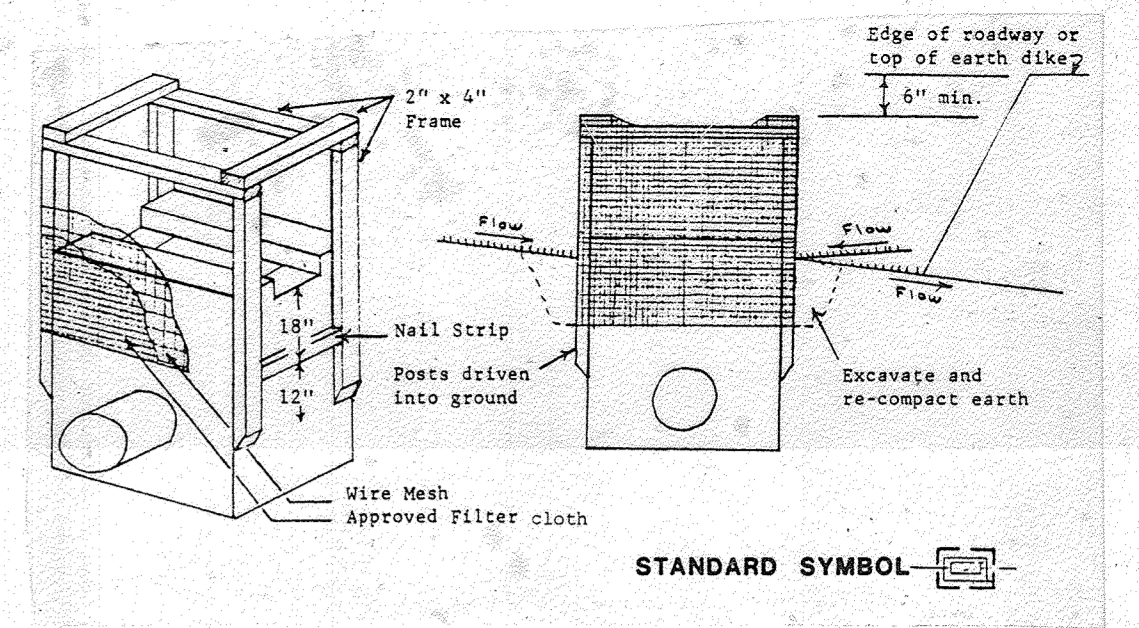
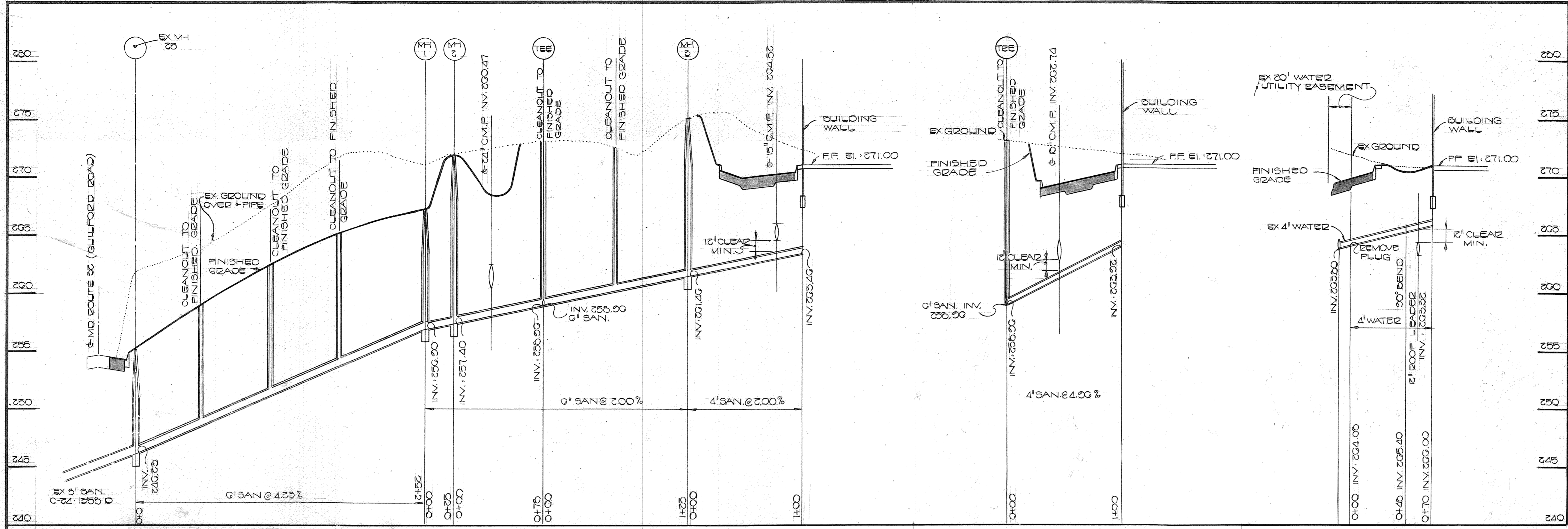
THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL.

APPROVED: OFFICE OF PLANNING AND ZONING
PLANNING DIRECTOR
DATE 12-23-85

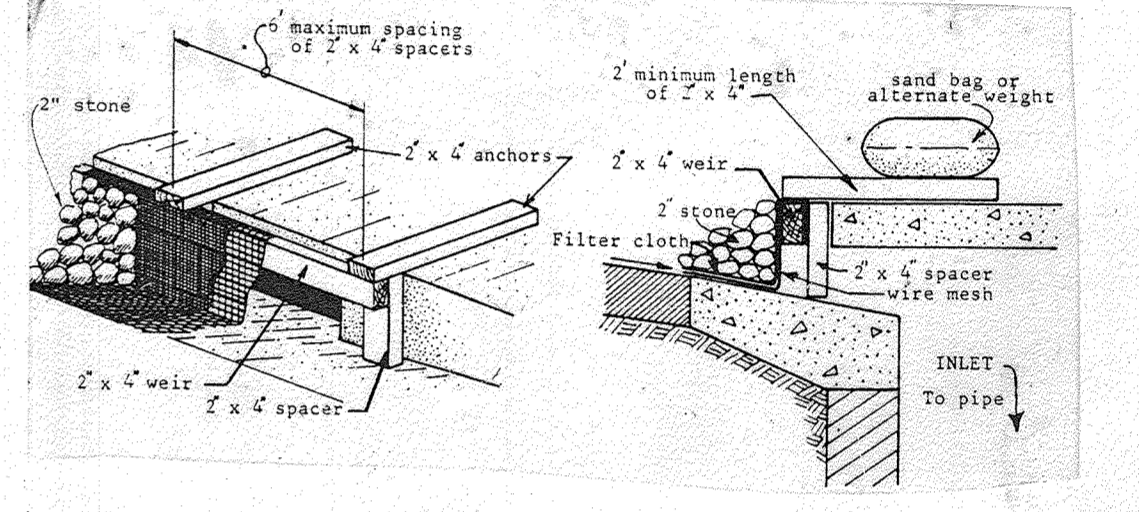
APPROVED: DEPARTMENT OF PUBLIC WORKS
FOR PUBLIC WATER & SEWER AND STORM DRAINAGE SYSTEMS AND ROADS.
DIRECTOR, PUBLIC WORKS
DATE 12-14-85

NOTES/DETAILS
PROPERTY OF
HERSCHELL C. DOSS
DOSS ELECTRONICS BUILDING
TAX MAP 40 PARCEL 115
GTH ELECTION DIST. HOWARD CO MD
SCALE AS SHOWN JULY 5, 1985
REVISED OCTOBER 20, 1985
SHEET 4 OF 6



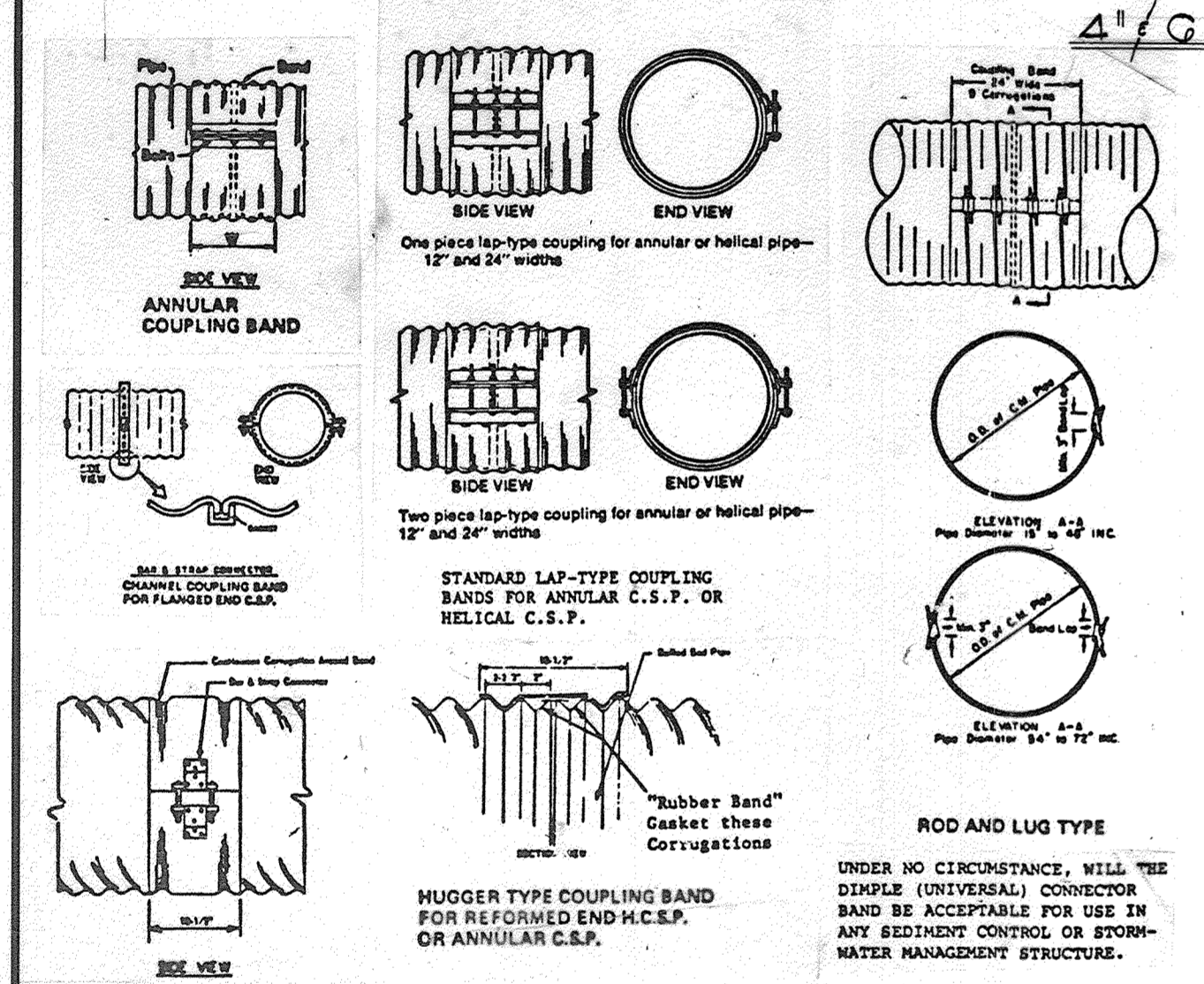


- Excavate completely around inlet to a depth of 18" below notch elevation.
- Drive 2 x 4 post 1' into ground at four corners of inlet. Place nail strips between posts on ends of inlet. Assemble top portion of 2 x 4 frame using overlap joint shown. Top of frame (weir) must be 6" below edge of roadway adjacent to inlet.
- Stretch wire mesh tightly around frame and fasten securely. Ends must meet at post.
- Stretch filter cloth tightly over wire mesh, the cloth must extend from top of frame to 18" below inlet notch elev. Fasten securely to frame. Ends must meet at post, be overlapped and folded, then fastened down.
- Backfill around inlet in compacted 6" layers until layer of earth is even with notch elevation on ends and top elevation on sides.
- If the inlet is not in a low point, construct a compacted earth dike in the ditchline below it. The top of this dike is to be at least 6" higher than the top of frame (weir).
- This structure must be inspected frequently and the filter fabric replaced when clogged.



- Attach a continuous piece of wire mesh (30" min. width by throat length plus 4") to the 2" x 4" weir (measuring throat length plus 2") as shown on the standard drawing.
- Place a piece of approved filter cloth (40-85 sieve) of the same dimensions as the wire mesh over the wire mesh and securely attach to the 2" x 4" weir.
- Securely nail the 2" x 4" weir to 9" long vertical spacers to be located between the weir / inlet face (max. 6' apart).
- Place the assembly against the inlet throat and nail (minimum 2" lengths of 2" x 4" to top of the weir at spacer locations. These 2" x 4" spacers shall extend across the inlet top and be held in place by sandbags or alternate weight.
- The assembly shall be placed so that the end spacers 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 both sides 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 dikes directing flow into inlet.

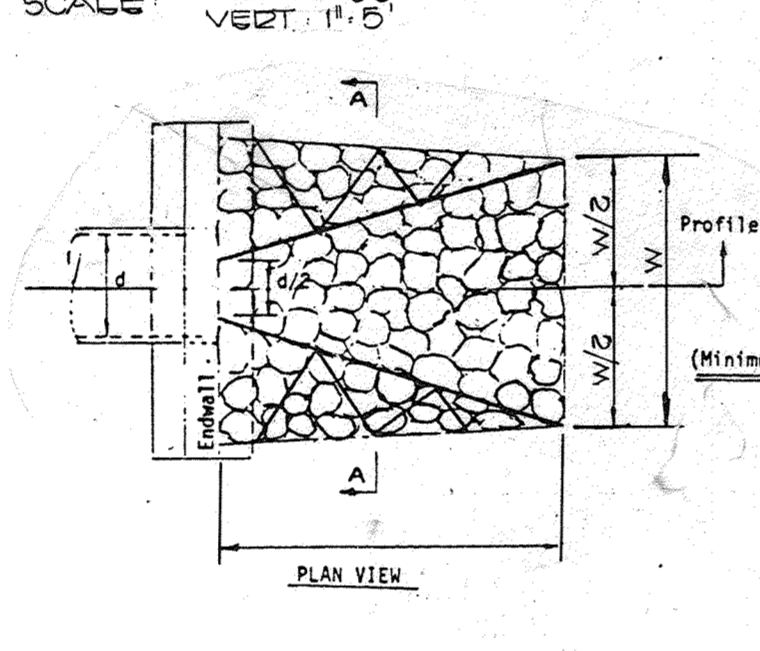
INLET PROTECTION NOT TO SCALE



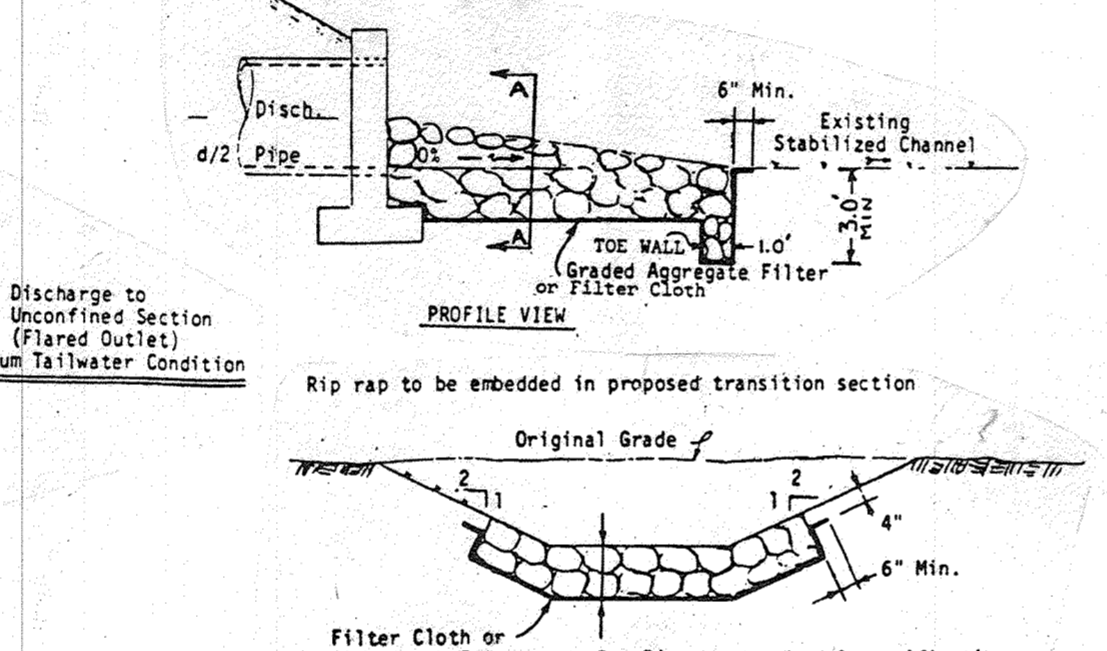
4" / 6" SANITARY CONNECTION

4" SANITARY CONNECTION

4" WATER CONNECTION



CONSTRUCTION SPECIFICATIONS



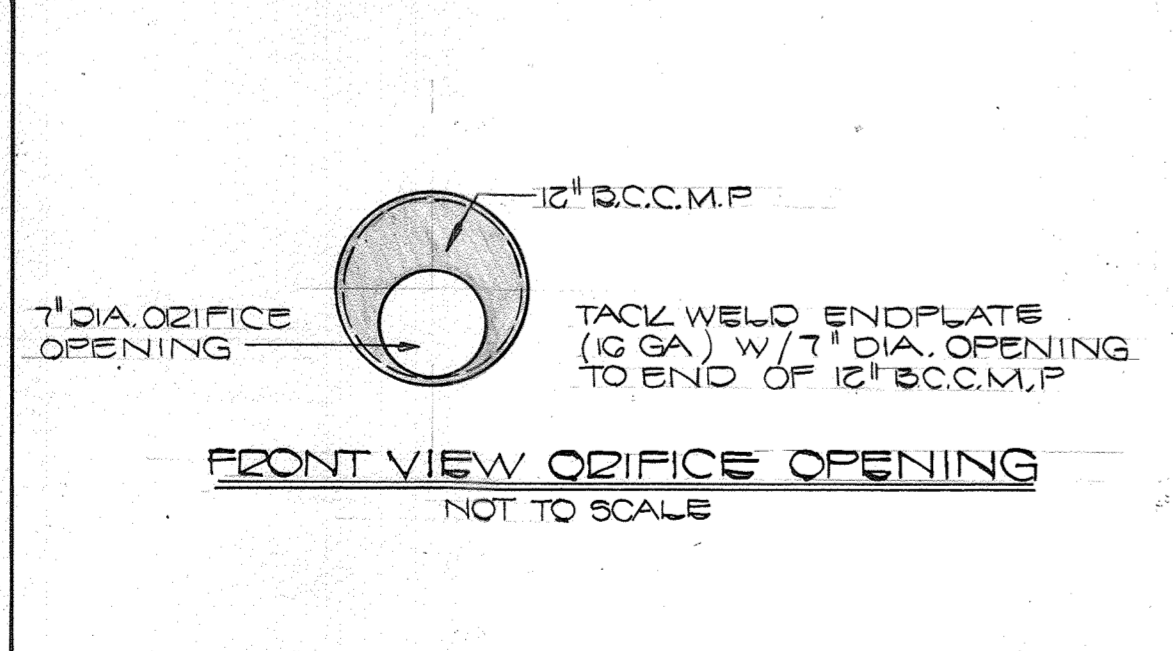
RIP-RAP PROTECTION @ OUTFALLS NOT TO SCALE

- The subgrade for the filter, riprap or gabion shall be prepared to the required lines and grades. Any fill required in the subgrade shall be compacted to a density of approximately that of the surrounding undisturbed material.
- The rock gravel shall conform to the specified grading limits when installed respectively in the riprap or filter.
- Filter cloth shall be protected from punching, cutting or tearing. Any damage other than an occasional small hole shall be repaired by placing another piece of cloth over the damaged part or by completely replacing the cloth. All overlaps whether for repairs or for joining two pieces of cloth shall be a minimum of one foot.
- Stone for the riprap or gabion outlets may be placed by equipment. Both shall each be constructed to the full course thickness in one operation and in such a manner as to avoid displacement of underlying materials. The stone for riprap or gabion outlets shall be delivered and placed in a manner that will insure that it is reasonably homogenous with the smaller stones and spalls filling the voids between the larger stones. Riprap shall be placed in a manner to prevent damage to the filter blanket or filter cloth. Band placement will be required to the extent necessary to prevent damage to the permanent works.

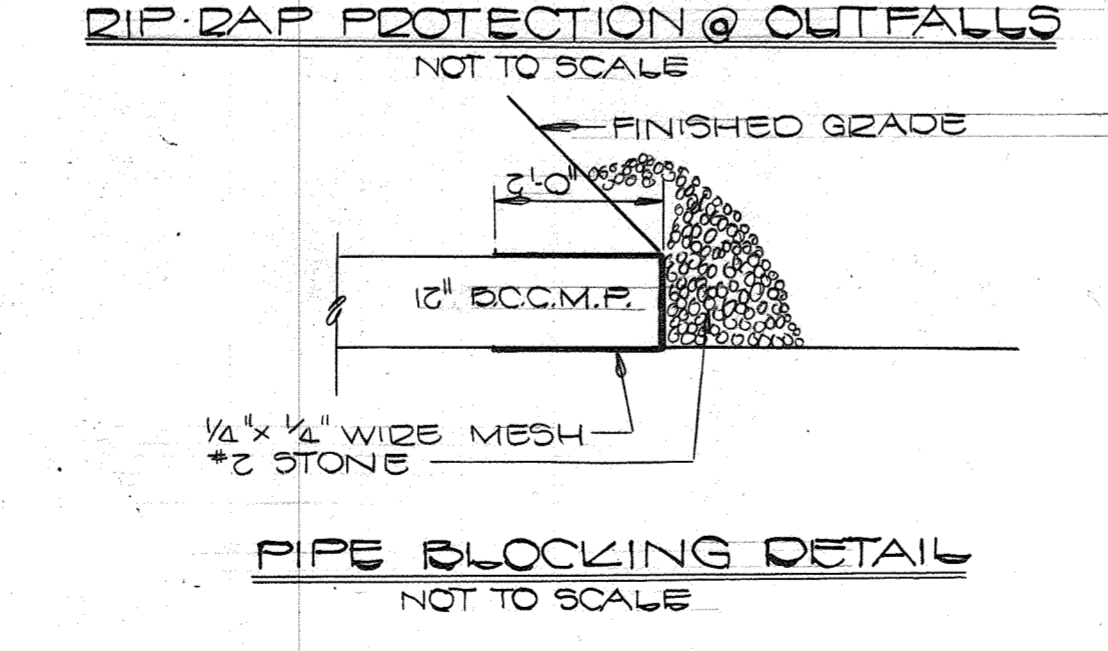
RIP-RAP APRON				
NO.	L	W	D	O/C
1	10'	10'	10"	0/2
2	10'	10'	12"	1/2

TYPICAL COUPLERS FOR CORRUGATED PIPE NOT TO SCALE

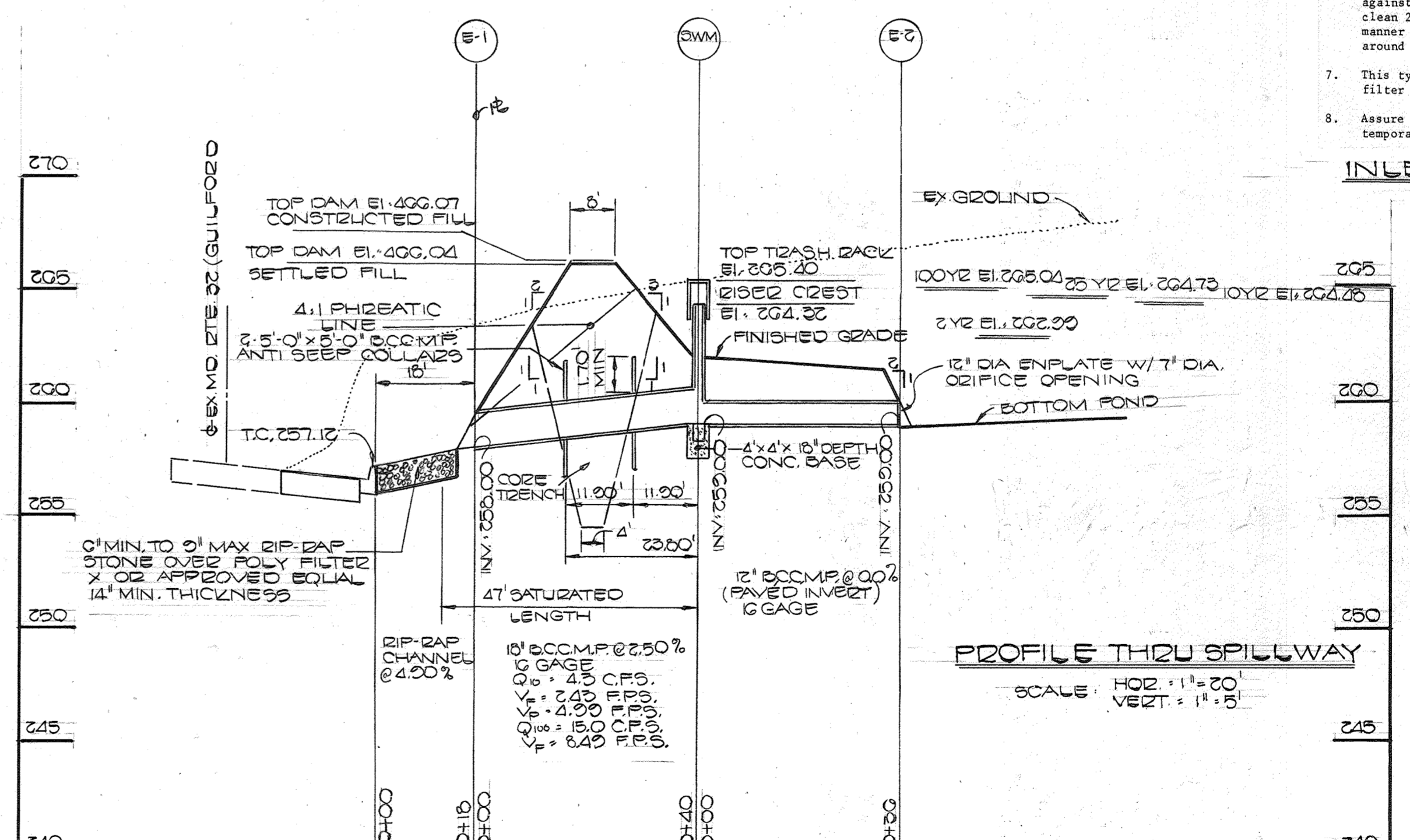
APPROVED
DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION
HOWARD COUNTY, MARYLAND
DATE 11-20-85



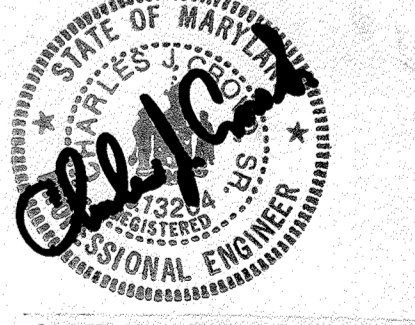
FRONT VIEW ORIFICE OPENING NOT TO SCALE



PIPE BLOCKING DETAIL NOT TO SCALE



PROFILE THRU SPILLWAY SCALE: HOR. 1" = 20' VERT. 1" = 5'



OWNER AND DEVELOPER:
HERSCHELL DOSS
4253 MONTGOMERY ROAD
ELLCOTT CITY, MARYLAND 21043
(301) 465-1336

FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERS & LAND SURVEYORS
8388 COURT AVENUE
ELLCOTT CITY, MARYLAND 21043
(301) 461-2855

ENGINEER'S CERTIFICATE
"I CERTIFY THAT THIS PLAN FOR POND CONSTRUCTION, EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS. THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT. I HAVE NOTIFIED THE DEVELOPER THAT HE MUST PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN AS-BUILT PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION."
SIGNATURE OF ENGINEER: *[Signature]* DATE: 12/1/85

STORM WATER MANAGEMENT POND CERTIFICATION AND APPROVAL
DEVELOPER'S CERTIFICATE
"I HEREBY CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THESE PLANS, AND THAT ANY 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 WILL PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN AS-BUILT PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION."
SIGNATURE OF DEVELOPER: *[Signature]* DATE: 12/1/85

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL.
SIGNATURE: *[Signature]* DATE: 12/1/85
HOWARD SOIL CONSERVATION DISTRICT

APPROVED: OFFICE OF PLANNING AND ZONING
PLANNING DIRECTOR: *[Signature]* DATE: 12-30-85
CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION
APPROVED: HOWARD COUNTY HEALTH DEPARTMENT FOR PUBLIC WATER AND SEWERAGE SYSTEMS
HEALTH OFFICER: *[Signature]* DATE: 12-23-85

APPROVED: DEPARTMENT OF PUBLIC WORKS FOR PUBLIC WATER & SEWER AND STORM DRAINAGE SYSTEMS AND ROADS.
DIRECTOR, PUBLIC WORKS: *[Signature]* DATE: 12-14-85
CHIEF, BUREAU OF ENGINEERING: *[Signature]* DATE: 12-19-85
PROPERTY OF: HERSCHELL C. DOSS SECTION/AREA: 115 PARCEL #: 115
L.F. BLOCK NO. ZONE TAX ZONE ELEC. DIST. CENSUS TR. 1224/001 0 M-2 20 G 0004
WATER CODE: 0-02 SEWER CODE: 4150000

NOTES / DETAILS
PROPERTY OF: HERSCHELL C. DOSS
DOSS ELECTRONICS BUILDING
TAX MAP 40 PARCEL 115
9TH ELECTION DIST. HOWARD CO MD
SCALE: AS SHOWN JULY 5, 1985
REVISED: OCTOBER 20, 1985
SHEET 5 OF 5