

Site Analysis Data Chart

TOTAL AREA OF SITE: 778,417 SQ. FT. OR 17.87 AC.
 EXISTING ZONING: M-2
 PROPERTY REFERENCE: LIBER 693, FOLIO 667/LIBER 610 FOLIO 14
 EXISTING USE: WAREHOUSE
 PROPOSED USE: WAREHOUSE
 AREA TO BE DISTURBED: 121,968 SF (2.8 AC.)

AREA TO BE VEGETATIVELY STABILIZED: 16,117 SF (0.37 AC.)

PARKING REQUIREMENTS
 348,690 SF PARCELS A, F & G
 31,000 SF MANUFACTURING @ 31 EMPLOYEES
 259,290 SF WAREHOUSE/DIST 31 SPACES @ 5 SF/1000 SF = 130 SPACES

TOTAL WEEKDAY REQUIREMENT = 161 SPACES
 WEEKEND REQUIREMENT
 59,300 SF FLEA MARKET @ 150 SPACES *
 + 10% X 161 = 17 SPACES (SECT 133(E))

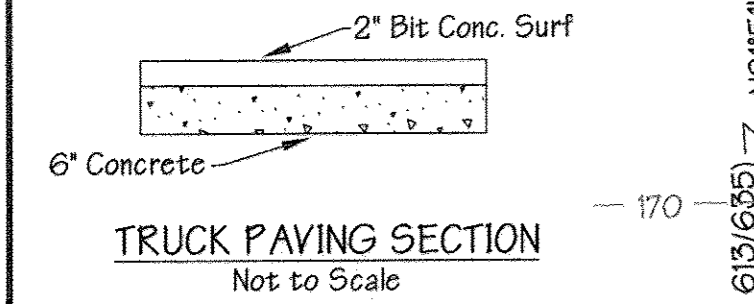
TOTAL WEEKEND REQUIREMENT = 167 SPACES
 TOTAL PROVIDED = 176 SPACES + 108 TEMP SPACES
 * HOURS OF OPERATION: 8 AM TO 4 PM SAT & SUN

BENCH MARK
 +CUT AT STA. 11+75.61, 22.25' RIGHT
 AMBERTON ROAD ELEV. = 171.69

USC & GS BM 121 LOCATED AT DORSEY ROAD, HOWARD COUNTY ON THE BALTIMORE & OHIO RAILROAD, 100 FEET NORTHEAST OF THE STATION, AT THE CROSSING OF THE OLD ANNAPOLIS ROAD (THE DORSEY-GLEN BURNIE ROAD), 50 FEET EAST OF THE EAST RAIL OF THE NORTH BOUND TRACK, 35 FEET SOUTH OF THE ROAD AT DORSEY.

Legend

- Ex. 2' Contours - 394
- Prop. 2' Contours - 394
- Prop. 10' Contours - 390
- Ex. Curb & Gutter
- Ex. Storm Drain
- Ex. Sanitary
- Ex. Water
- Prop. Storm Drain
- Prop. Water
- Truck Paving



SHEET INDEX

- SHEET 1 - SITE & STORMWATER MANAGEMENT PLAN
- SHEET 2 - DRAINAGE AREA MAP & SWM PROFILES
- SHEET 3 - SWM DETAILS
- SHEET 4 - SWM DRAINAGE AREA MAP & NOTES
- SHEET 5 - SEDIMENT CONTROL PLAN
- SHEET 6 - SEDIMENT CONTROL DETAILS
- SHEET 7 - SEDIMENT CONTROL NOTES
- SHEET 8 - SEDIMENT CONTROL DRAINAGE AREA MAP & PROFILES
- SHEET 9 - SWM AND SITE DETAILS

CURB DATA
 (FOR CURB SEE HOWARD COUNTY DETAIL R-3.01)

- 1 Sta 5+68.8 22' Rt (S.T.R.) T.C. 155.4
- 2 Sta 5+81.1 22' Rt (S.T.R.) T.C. 156.0
- 3 Sta 5+103.2 1' Rt (S.T.R.) T.C. 157.6
- 4 Sta 0+437.2 25' L (ENTR.) T.C. 158.0
- 5 Sta 0+86.8 15' L (ENTR.) T.C. 158.5
- 6 Sta 1+02.2 15' L (ENTR.) T.C. 159.0
- 7 Sta 4+18.0 21' Rt (S.T.R.) T.C. 159.4
- 8 Sta 0+52.4 15' R (ENTR.) T.C. 158.5
- 9 Sta 1+44.5 15' R (ENTR.) T.C. 159.9
- 10 Sta 1+88.9 15.0 R (ENTR.) T.C. 160.5

CONSULTANT'S HAZARD CLASS CERTIFICATION
 I certify that this pond meets all requirements for hazard class (B) or C. (Requirements as stated in the Soil Conservation Service - Maryland Standards and Specifications for Pond, Code 378, November 1992). All necessary investigations and computations have been performed to verify this finding. A copy of said information has been supplied to Howard County Soil Conservation District.

Signature: _____ Date: _____

STORMWATER MANAGEMENT PLAN

DESIGN STORM	ALLOWABLE RELEASE RATE	FACILITY INFLOW	FACILITY DISCHARGE	W.S. ELEV.	STORAGE VOLUME
2	35.40 CFS	24.60 CFS	17.55 CFS	152.03	0.234 Ac.Ft.
10	61.44 CFS	40.10 CFS	29.45 CFS	153.4	0.408 Ac.Ft.
100	89.89 CFS	57.08 CFS	56.71 CFS	154.52	0.594 Ac.Ft.

PLAN
 SCALE: 1" = 50'

POND SPECIFICATIONS FOR STORMWATER MANAGEMENT FACILITY

DESCRIPTION	DATA
STRUCTURE CLASSIFICATION	A
STORAGE HEIGHT PRODUCT	(0.594 AC.FT.) (5.92) = 3.52 AC.FT.
WATERSHED AREA TO THE POND	7.05 AC. ON SITE / 10.00 OFF SITE
HEIGHT TO EMERGENCY SPILLWAY	4.4'
NORMAL SURFACE AREA	N/A
PRINCIPLE SPILLWAY CAPACITY	55.71
EMERGENCY SPILLWAY CAPACITY	55.71
POND TYPE	DRY
FREEBORD	REQUIRED/PROVIDED
IMPERVIOUS AREA (AREA SERVED)	2,007 / 2,994'
WATER QUALITY STORAGE REQUIRED	1.80 AC.FT.
WATER QUALITY STORAGE PROVIDED	N/A
WATER QUALITY STORAGE PROVIDED	PROVIDED BY STORMCEPTOR
TOP OF EMBANKMENT	157.00
WATER SHED	SHADOW RUN
LEVEL OF MANAGEMENT	2 & 10
RCN (TO POND)	962
TOTAL SITE AREA	17.87 AC.

GEORGE WILLIAM STEPHENS, JR. AND ASSOCIATES, INC.
 CIVIL ENGINEERS & LAND SURVEYORS
 658 KENILWORTH DRIVE, SUITE 100
 TOWSON, MARYLAND 21284
 (410) 825-8120

ENGINEER CERTIFICATION:
 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 Soil Conservation District.

Signature: _____ Date: 10/13/98
 Name: Nicholas J. Brador, III PE# 10558

OWNER/DEVELOPER
MIE PROPERTIES CO.
 5720 Executive Drive
 Baltimore, Maryland 21228-1789
 (410) 788-0100

DEVELOPER CERTIFICATION:
 I/We certify that all development and construction will be done according to this plan, and that any responsible personnel involved in the construction project will have a Certification of Attendance at a Department of the Environment 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.

Developer: _____ Date: 10/13/98
 Name: Jeffrey A. Gish, P.P.

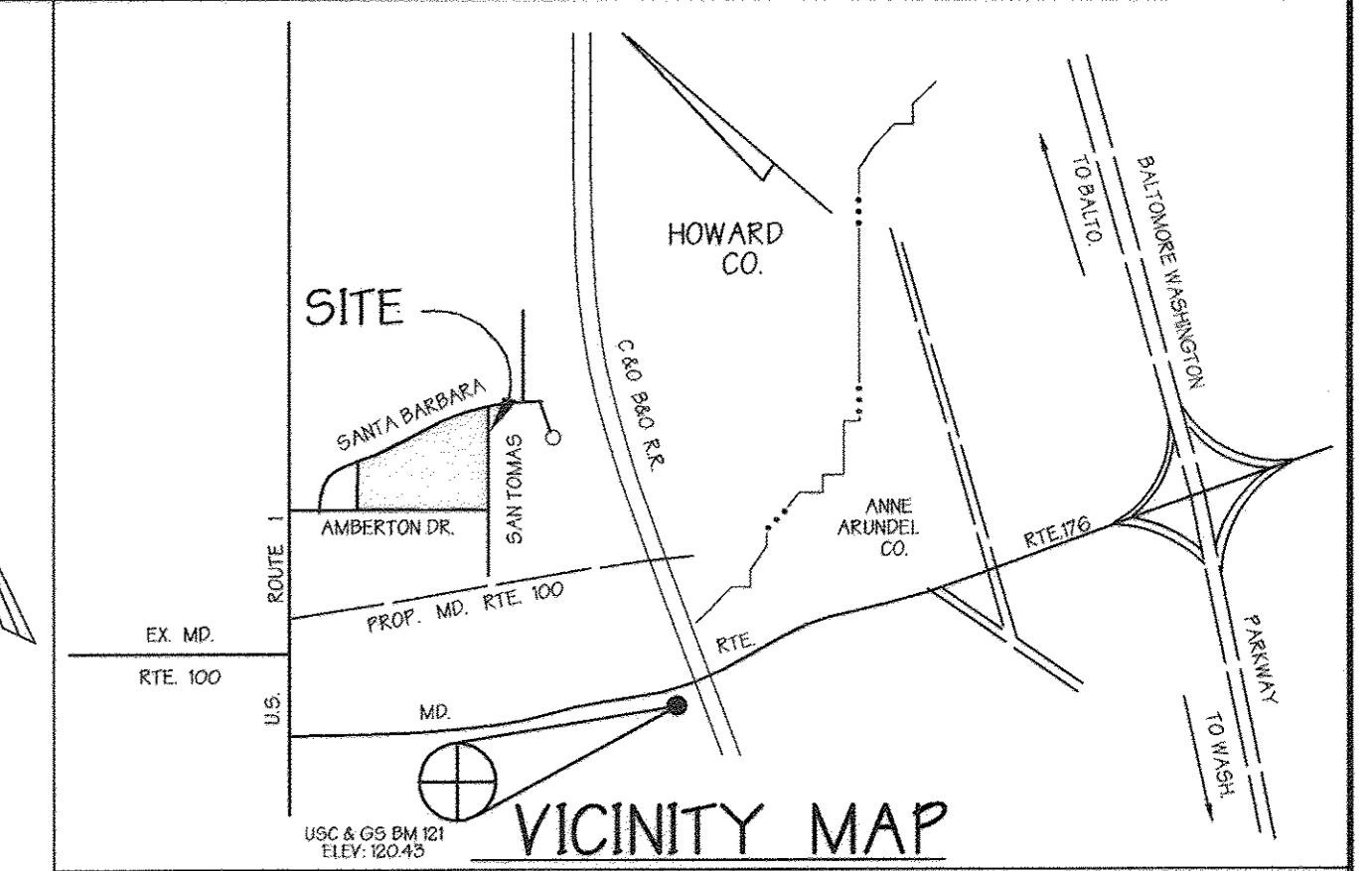
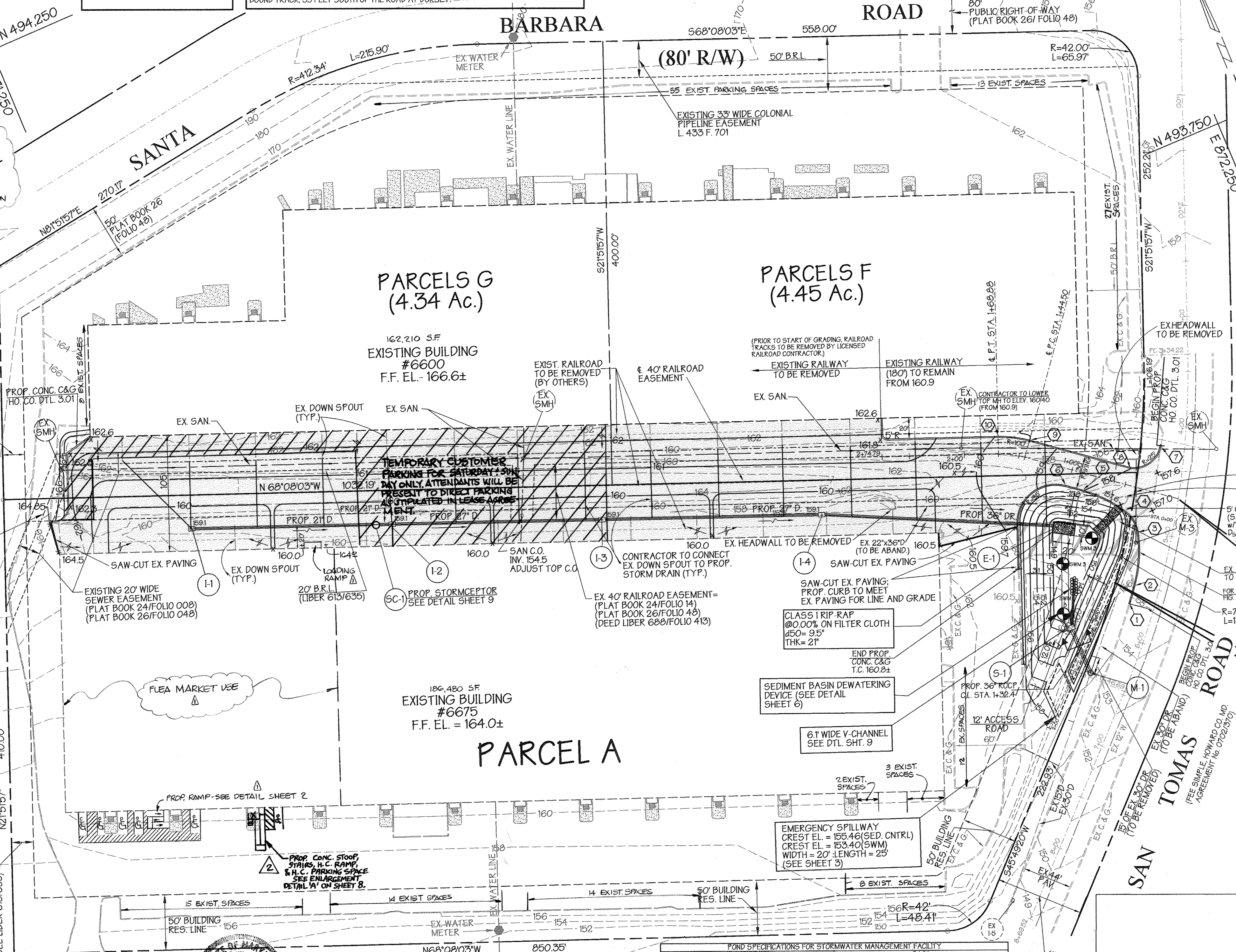
DESIGNED BY: H.P.P.
 DRAWN BY: P.L.T.
 CHECKED BY: N.B.
 REVISIONS:

Site & Stormwater Management Plan
ROUTE ONE HUNDRED BUSINESS PARK
 BLOCK "A"
 Previous File Nos. SDP 72-27, SDP 74-80, F #81

Election District #1
 Parcels A, F & G
 Scale: 1"=50'

Howard County, Maryland
 October 13, 1998
 Sheet 1 of 110

SDP -99-35



CONSTRUCTION NOTES

- THE CONTRACTOR SHALL NOTIFY THE HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS CONSTRUCTION INSPECTION DEPARTMENT AT 410-313-1800 AT LEAST 24 HOURS PRIOR TO STARTING ANY OF THE WORK SHOWN HEREON.
- ALL PLAN DIMENSIONS ARE GIVEN TO FACE OF CURB UNLESS OTHERWISE NOTED. SEE ARCHITECTURAL DRAWINGS FOR EXACT BUILDING DIMENSIONS.
- THE CONTRACTOR SHALL NOTE THAT IN CASE OF DISCREPANCY BETWEEN ANY SCALED DIMENSIONS AND THE FIGURED DIMENSIONS SHOWN ON THESE PLANS, THE FIGURED DIMENSIONS SHALL GOVERN. CONTRACTOR SHALL MEET ALL EXISTING IMPROVEMENTS SMOOTHLY FOR LINE, GRADE AND FINISH.
- ALL WORK SHOWN ON THESE PLANS SHALL BE COMPLETED IN ACCORDANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF THE HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS AND OF THE MARYLAND STATE HIGHWAY ADMINISTRATION AND THE HOWARD COUNTY PLUMBING CODE, UNLESS OTHERWISE NOTED.
- IT SHALL BE DISTINCTLY UNDERSTOOD THAT FAILURE TO MENTION SPECIFICALLY ANY WORK WHEN WORK IS NORMALLY REQUIRED TO COMPLETE THIS PROJECT SHALL NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY TO PERFORM SUCH WORK. THE COST OF SUCH WORK SHALL BE INCLUDED IN THE BASE BID.
- THE CONTRACTOR SHALL INSPECT THE SITE TO DETERMINE IF ANY TREES, FENCES, ETC. ARE TO BE REMOVED PRIOR TO PLACING A BID ON SUCH ITEMS.
- THE LOCATIONS OF EXISTING UTILITIES SHOWN HEREON ARE APPROXIMATE ONLY AND ARE PROVIDED FOR THE CONVENIENCE OF THE CONTRACTOR ONLY. THE LOCATIONS ARE TAKEN FROM EXISTING RECORDS AND DO NOT REPRESENT FIELD-VERIFIED LOCATIONS. THE CONTRACTOR SHALL NOTIFY MISS UTILITY AT 1-800-287-7777 A MINIMUM OF 5 WORKING DAYS PRIOR TO DIGGING. THE CONTRACTOR SHALL CONFIRM TO HIS OWN SATISFACTION THE LOCATION OF ALL UTILITIES PRIOR TO ANY EXCAVATION OR PLACEMENT OF MATERIALS. IF ANY CONFLICT IS FOUND BETWEEN UNDERGROUND UTILITIES AND THE PROPOSED LOCATION OF ANY CONSTRUCTION, THE CONTRACTOR SHALL CONTACT G.W. STEPHENS AND THE OWNER OF THE UTILITY IMMEDIATELY. ANY DAMAGE OR DISRUPTION OF SERVICE SHALL BE AT THE EXPENSE OF THE CONTRACTOR. RELOCATION OF ANY EXISTING UTILITIES, IF NECESSARY, SHALL BE AT THE EXPENSE OF THE OWNER. THE CONTRACTOR SHALL COORDINATE RELOCATION OF THESE UTILITIES, IF NECESSARY.
- THE EXISTING TOPOGRAPHY IS TAKEN FROM A FIELD RUM SURVEY WITH TWO FOOT CONTOUR INTERVALS PREPARED BY LEO W. RADEK DATED AUGUST 1989.
- THE COORDINATES SHOWN HEREON ARE BASED UPON THE HOWARD COUNTY GEODETIC CONTROL WHICH IS BASED UPON THE MARYLAND STATE PLANE COORDINATE SYSTEM, HOWARD COUNTY MONUMENT NO. 1850 & G.S. 8481, E.L. 120.45 USED FOR THIS PROJECT.
- WATER IS PUBLIC. CONTRACT NO. 15 539-D WAS
- SEWER IS PUBLIC. CONTRACT NO. 15 506-D WAS
- STORMWATER MANAGEMENT QUALITY IS PROVIDED BY A STORMCEPTOR AND QUANTITY MANAGEMENT IS PROVIDED BY A DETENTION POND. BOTH FACILITIES ARE PRIVATE AND SHALL BE MAINTAINED BY THE OWNER.
- THERE IS NO FLOODPLAIN ON THIS SITE.
- THERE ARE NO WETLANDS ON THIS SITE.
- NO TRAFFIC STUDY IS REQUIRED FOR THIS PROJECT.
- MAXIMUM SLOPE SHALL BE 2 HORIZONTAL TO 1 VERTICALLY.
- CONTRACTOR SHALL PROVIDE A MINIMUM OF FLOOD PROTECTIVE FILL OVER STORM DRAIN PIPES DURING CONSTRUCTION.
- ALL TRAFFIC CONTROL DEVICES, MARKINGS, AND SIGNAGE SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES". ALL STREET AND REGULATORY SIGNS SHALL BE INSTALLED PRIOR TO INSTALLATION OF FINISHED PAVING.
- THE CONTRACTOR SHALL REPLACE ANY EXISTING BITUMINOUS PAVING OR SUB-BASE WHICH IS DAMAGED OR REMOVED DURING CONSTRUCTION. ALL EXCAVATED AREAS SHALL BE BACKFILLED AND IN ACCORDANCE WITH THE SOILS REPORT AND/OR AS DIRECTED BY GEOLOGICAL ENGINEER. ANY AREAS TO BE PAVED WHICH EXHIBIT UNSTABLE SUBGRADE CONDITIONS SHALL BE EXCAVATED TO BEARING SOIL, RE-FILLED AND COMPACTED.
- ALL AREAS NOT BEING PAVED OR RECEIVING BUILDING COVERAGE SHALL BE STABILIZED IN ACCORDANCE WITH THE PLANS APPROVED BY THE HOWARD SOIL CONSERVATION DISTRICT.
- PRE-FORMED ELASTOMERIC CONSTRUCTION JOINT MATERIAL SHALL BE INSTALLED AT ALL MEETINGS OF EXISTING AND PROPOSED CONCRETE PAVING AND SIDEWALKS.

APPROVED: HOWARD SOIL CONSERVATION DISTRICT
 DATE: 1/10/99

Reviewed for the Howard Conservation District and meets technical requirements:
 APPROVED: _____ DATE: 1/11/99
 NATURAL RESOURCES CONSERVATION SERVICE

APPROVED: Howard County Department of Planning and Zoning
 APPROVED: _____ DATE: 1/15/99
 CHIEF, DEVELOPMENT ENGINEERING DIVISION

APPROVED: _____ DATE: 1/21/99
 CHIEF, DIVISION OF LAND DEVELOPMENT

ADDRESS CHART

PARCEL NO.	STREET ADDRESS
F & G	6600 SANTA BARBARA ROAD
A	6675 AMBERTON RD.

SUBDIVISION NAME
 ROUTE 100 BUSINESS PARK

SECTION NAME
 1

PARCEL #
 A, F & G

PLAT #
 24 FOLIO 14

BLOCK #
 A

ZONE
 M-2

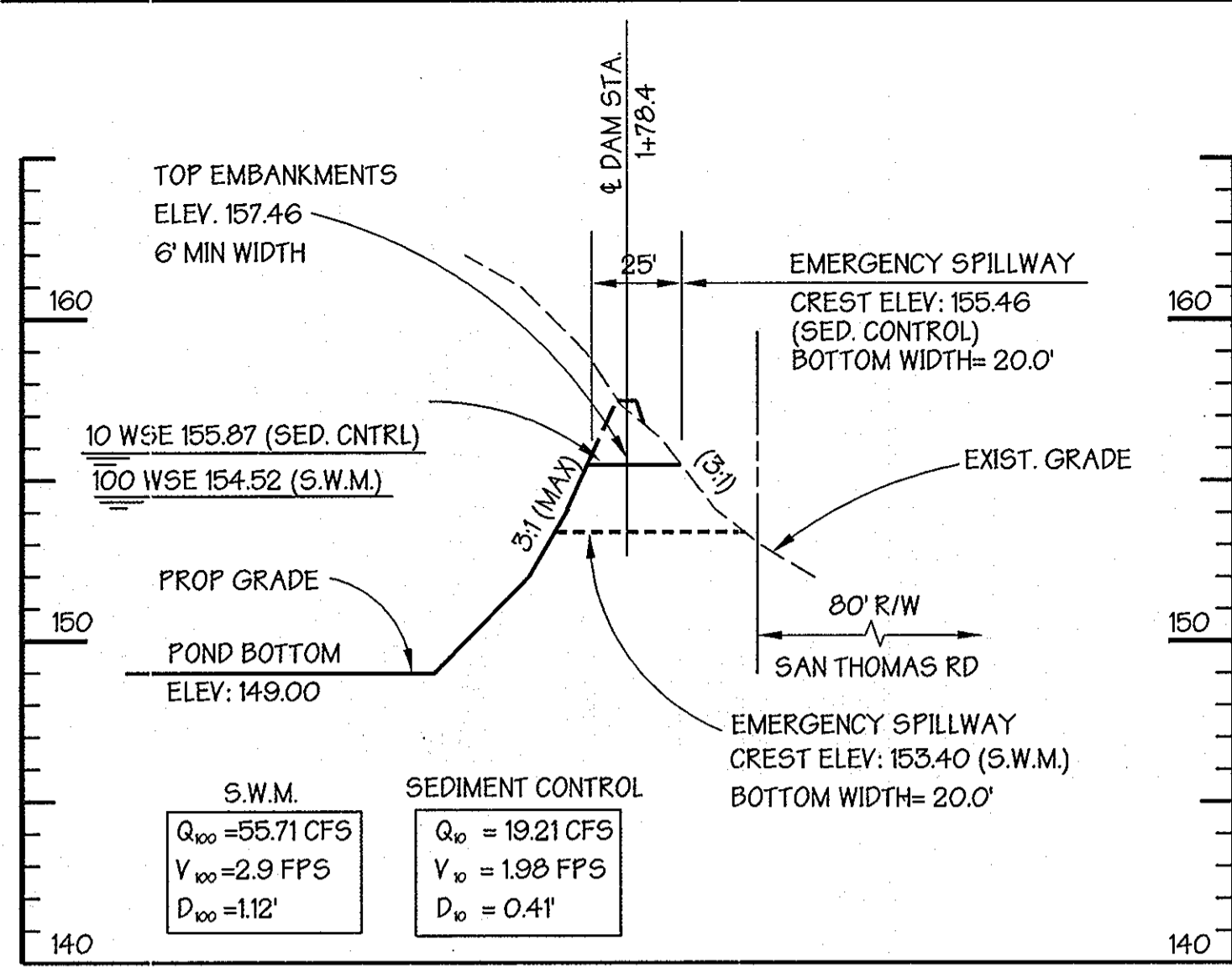
TAX MAP #
 37

ELECT. DIST.
 1

CENSUS TRACT
 6012

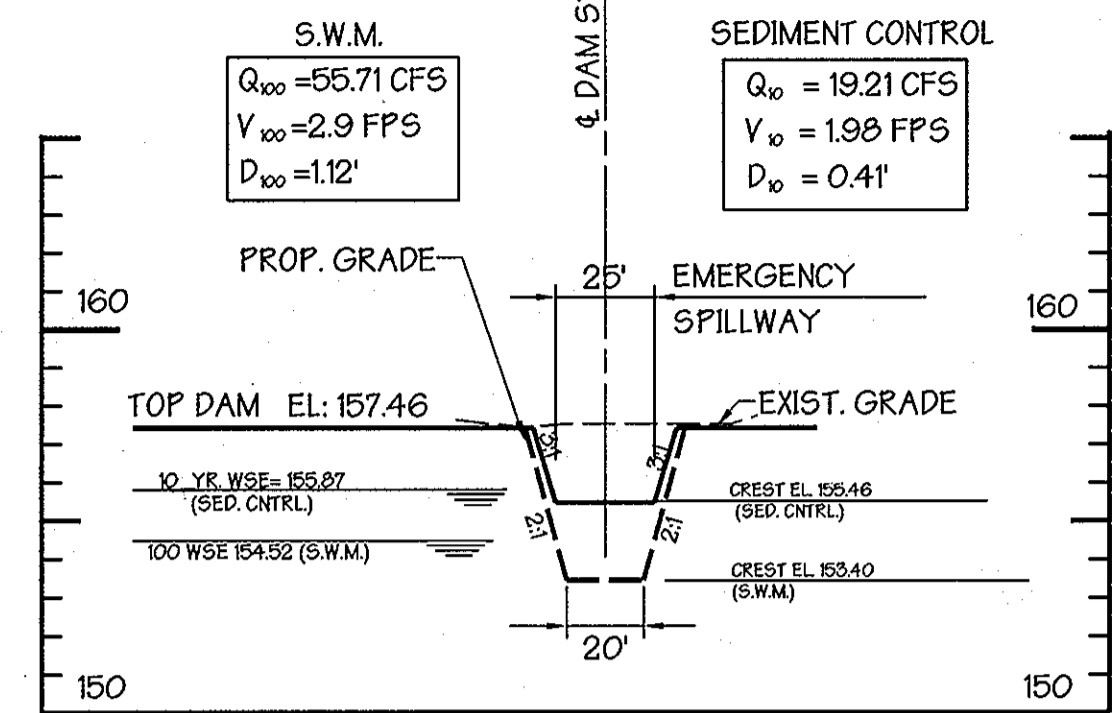
WATER CODE

SEWER CODE



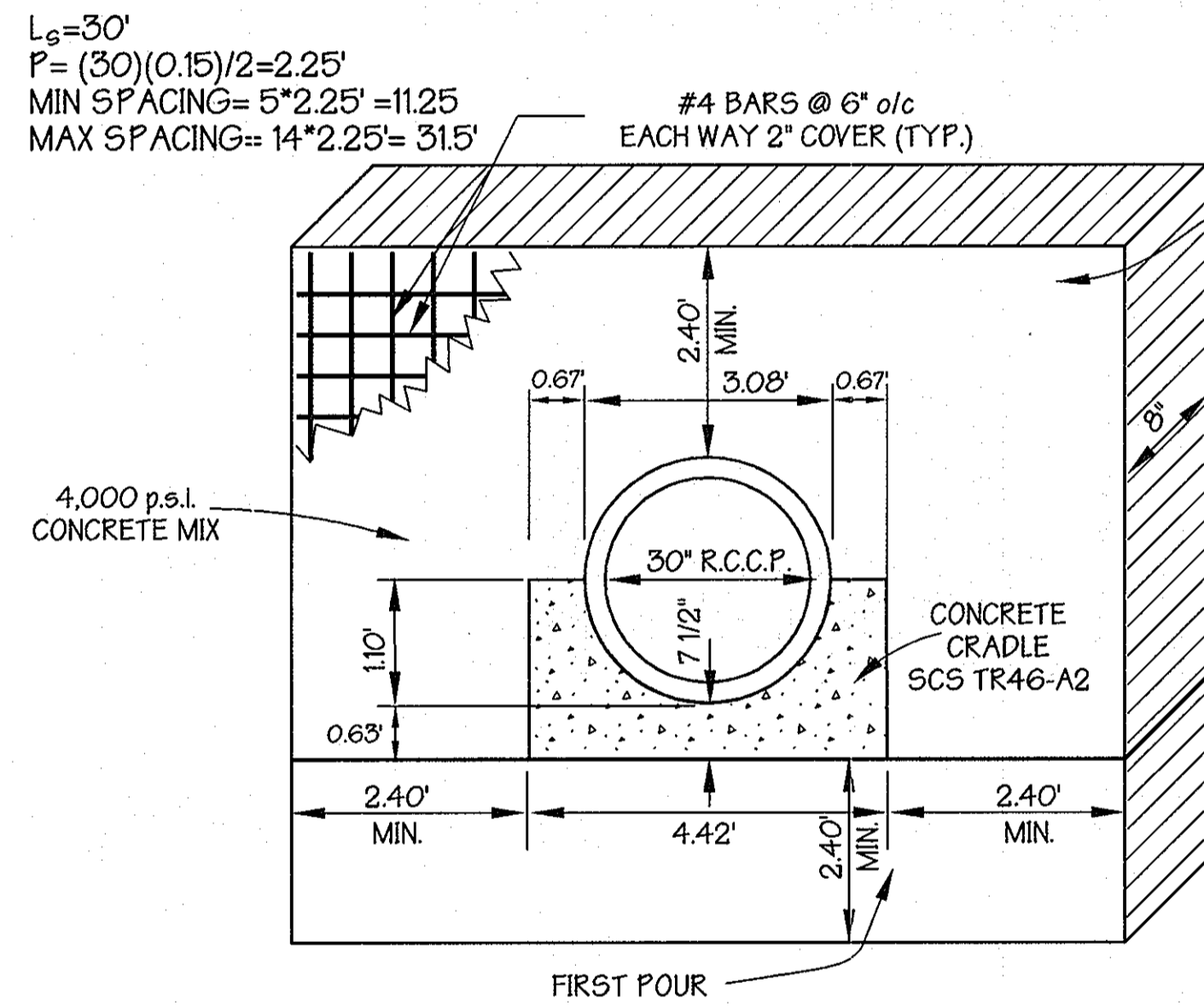
EMERGENCY SPILLWAY

SCALE: HORIZ: 1" = 50'
VERT: 1" = 5'



EMERGENCY SPILLWAY

SCALE: HORIZ: 1" = 50'
VERT: 1" = 5'



SECOND POUR

NOTE:

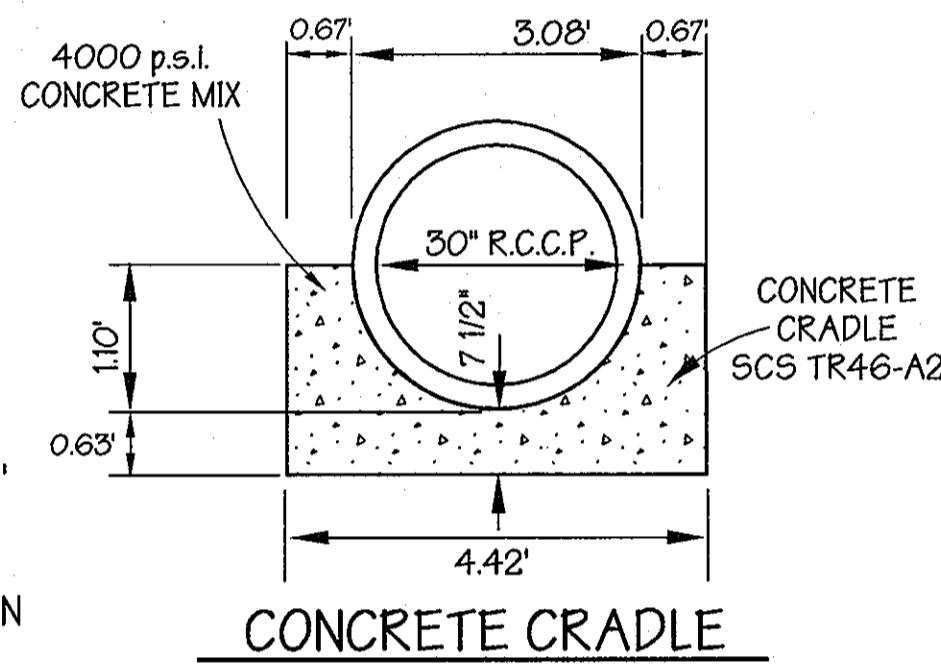
1. ANTI-SEEP COLLARS SHALL BE PLACE 2' MIN. FROM ALL PIPE JOINTS.
2. ALL MATERIALS TO BE IN ACCORDANCE WITH CONSTRUCTION AND CONSTRUCTION MATERIALS SPECIFICATIONS.
3. THE SEAL BETWEEN THE PIPE AND COLLAR SHALL BE WATER TIGHT.
4. COLLAR SHALL PROJECT A MIN. OF 2.25' FROM THE EXTERIOR OF THE CONCRETE CRADLE AND THE PIPE ON ALL FOUR SIDES.
5. THERE SHALL BE PREFORMED ASPHALT JOINT FILLER MATERIAL BETWEEN ALL CONCRETE SURFACES EXCEPT BETWEEN THE PIPE AND THE CRADLE.

NOTES

1. UNLESS OTHERWISE NOTED, CAST-IN-PLACE STRUCTURE SHALL BE BUILT IN ACCORDANCE WITH HOWARD CO. STD. DETAIL, (PLATE SD-4.23)
2. STRUCTURE TO BE CAST-IN-PLACE REINFORCED CONCRETE WITH 3500 P.S.I. (MIN) COMPRESSIVE STRENGTH @ 28 DAYS.
3. ALL REINFORCING TO BE CONTINUOUS THROUGHOUT STRUCTURE.
4. ALL REINFORCING TO HAVE 1'-6" MIN. OVERLAPS.
5. TWO (2) INCH COVER MINIMUM FOR ALL REBARS IN WALLS AND THREE (3) INCHES FOR THE BASE.
6. PROVIDE ADDITIONAL #4 REBARS ALONG THE PERIMETER OF ALL OPENINGS WITH THE AREA OF STEEL EQUAL TO OR GREATER THAN THE AREA OF STEEL "REMOVED" DUE TO OPENING.
7. ALL EXPOSED CORNERS OF CONCRETE SHALL BE CHAMFERED WITH 3/4" X 3/4" MILLED CHAMFER STRIPS.

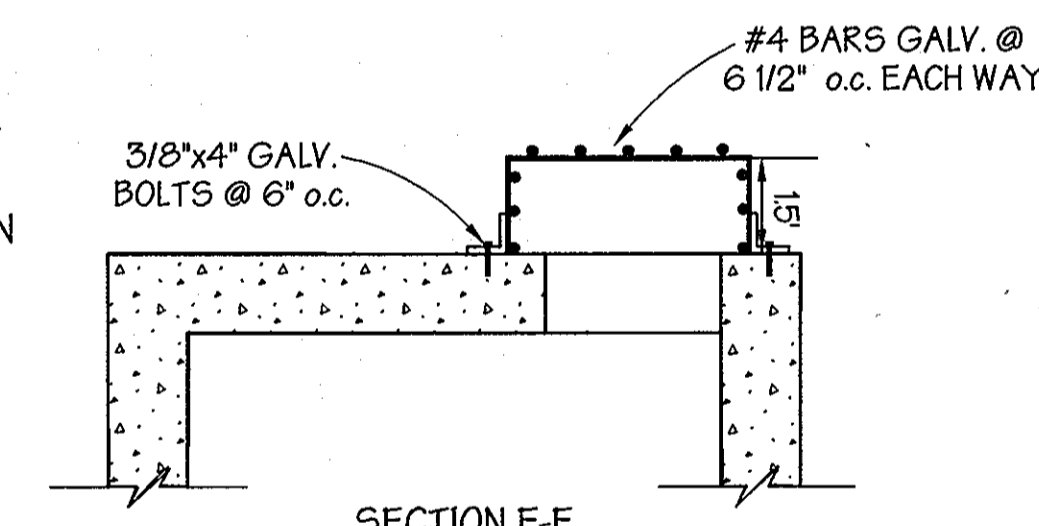
CONCRETE ANTI-SEEP COLLAR

SCALE: 1" = 2'



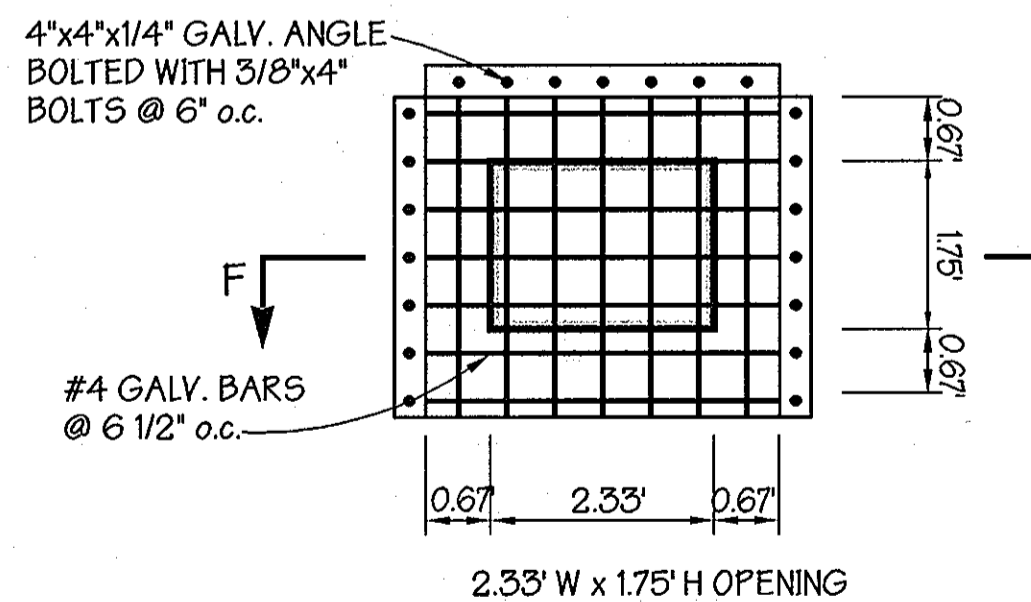
CONCRETE CRADLE

SCALE: 1" = 2'



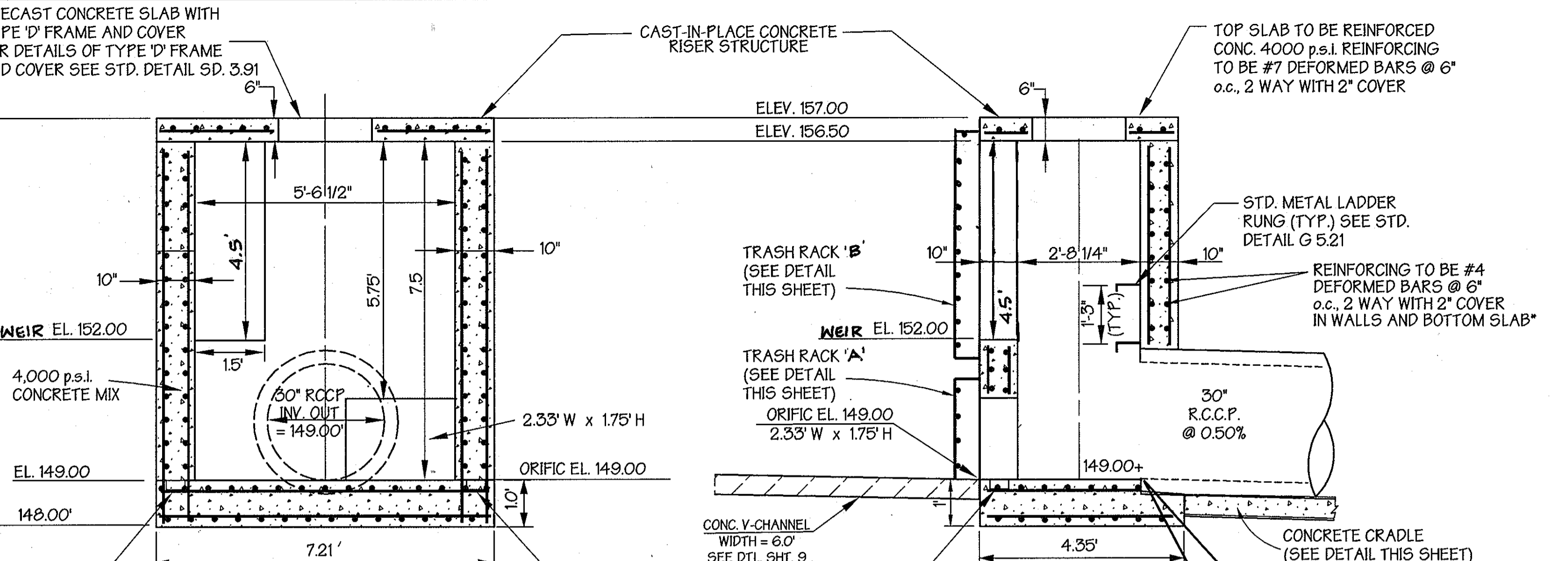
SECTION F-F

NOTE: TRASH RACKS ARE TO BE HOT DIPPED GALVANIZED AFTER FABRICATION



TRASH RACK DETAIL 'A'

SCALE: 1" = 2'



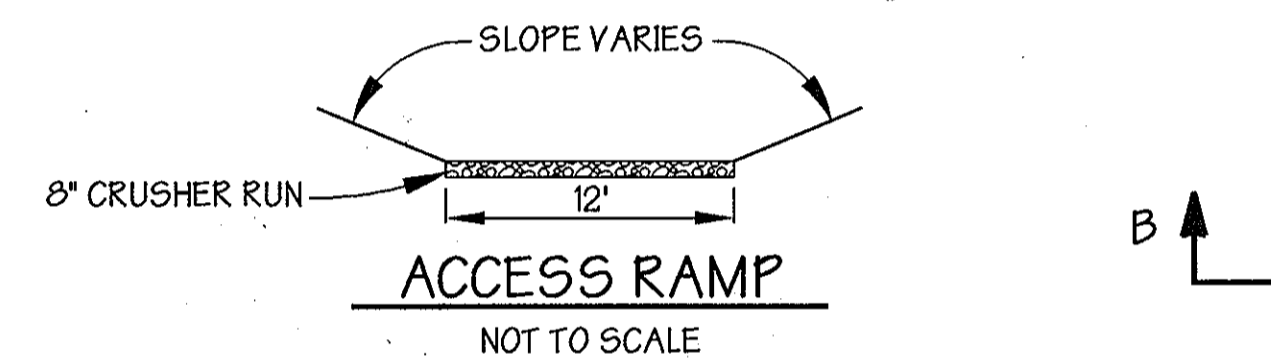
SECTION A-A

Reinforcement is required on outside as well as inside of walls.

SECTION B-B

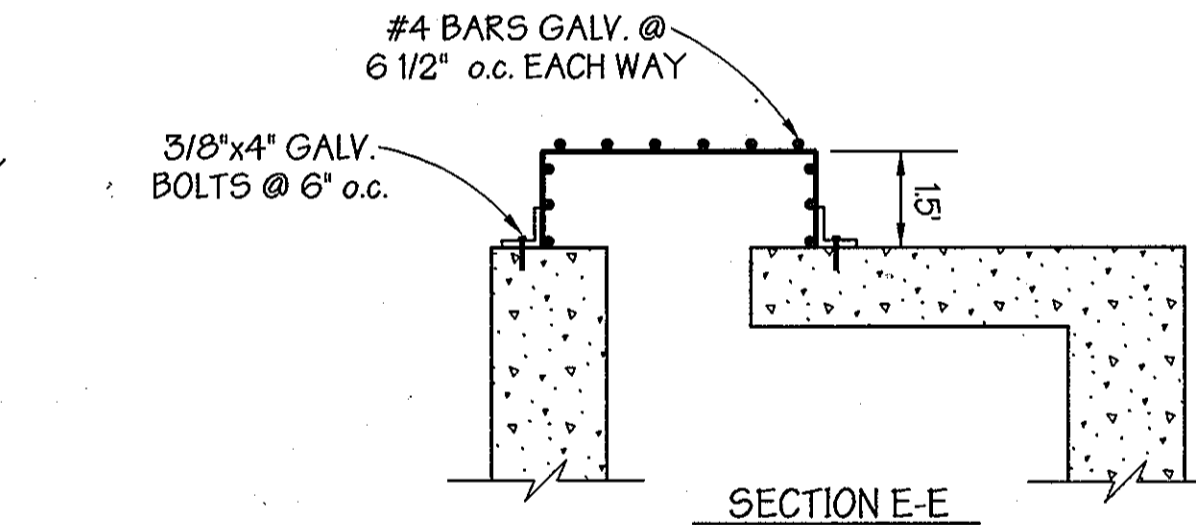
CONTRACTOR TO PROVIDE 2' x 4' KEYWAY BETWEEN BASE & WALLS AND REBAR TO BE CONTINUOUS THROUGH JOINT.

CONTRACTOR TO PROVIDE 2' x 4' KEYWAY BETWEEN BASE & WALLS AND REBAR TO BE CONTINUOUS THROUGH JOINT.



ACCESS RAMP

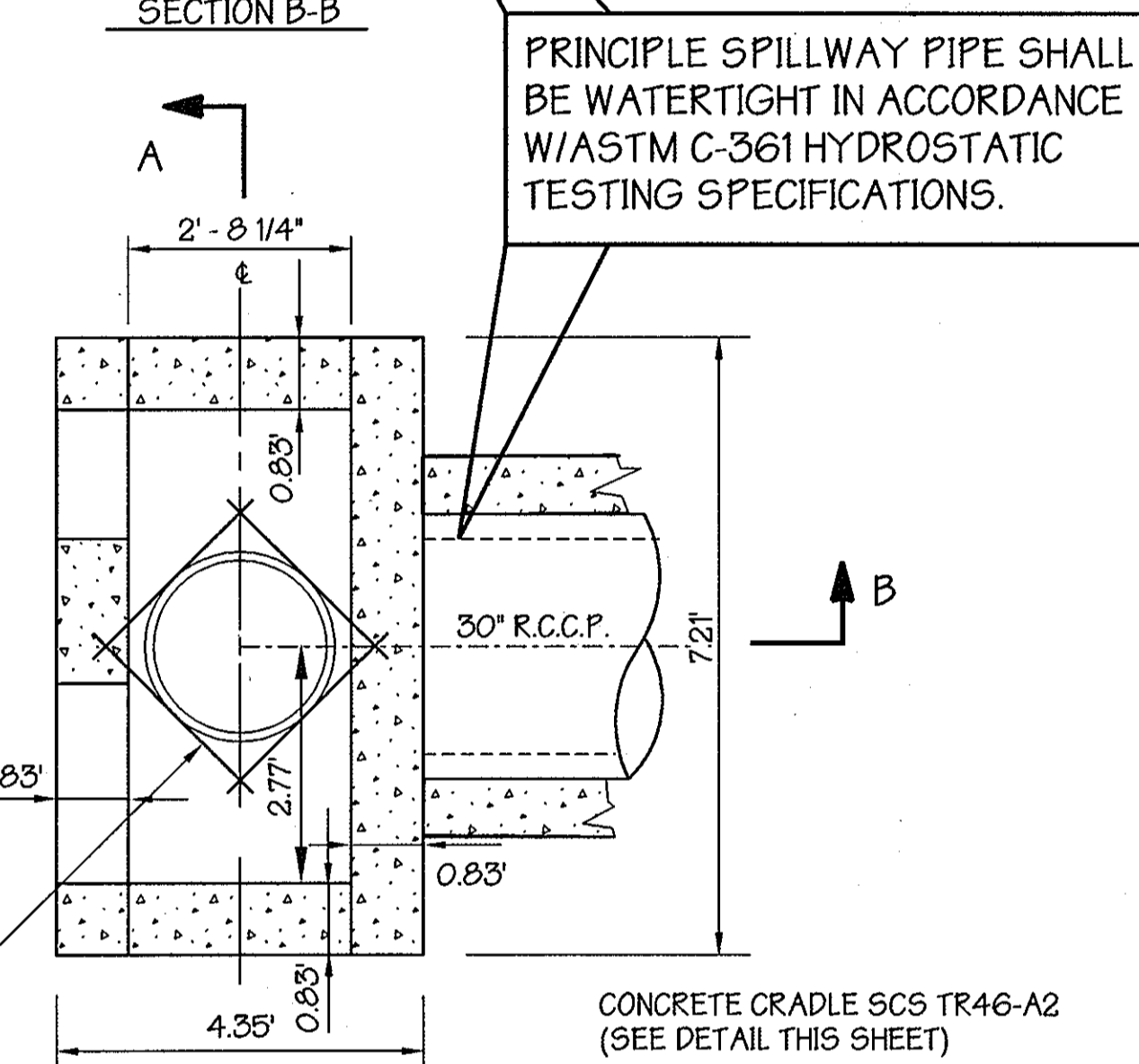
NOT TO SCALE



SECTION E-E

STRUCTURE S-1
MODIFIED DOUBLE 'S'

(HOWARD CO. DETAIL SD-4.23)
SCALE: 1" = 2'



PRINCIPLE SPILLWAY PIPE SHALL BE WATERTIGHT IN ACCORDANCE WITH ASTM C-361 HYDROSTATIC TESTING SPECIFICATIONS.

CONCRETE CRADLE SCS TR46-A2 (SEE DETAIL THIS SHEET)

These plans for S.W.M. construction, soil erosion and sediment control meet the requirements of Howard Soil Conservation District.

APPROVED: HOWARD SOIL CONSERVATION DISTRICT
DATE: 10/19/99

Reviewed for the Howard Conservation District and meets technical requirements.
NATURAL RESOURCES CONSERVATION SERVICE
DATE: 1/10/99

APPROVED: Howard County Department of Planning and Zoning
CHIEF, DEVELOPMENT ENGINEERING DIVISION
CHIEF, DIVISION OF LAND DEVELOPMENT
DATE: 1/13/99
DATE: 1/21/99
DATE: 1/22/99

ADDRESS CHART	
PARCEL NO.	STREET ADDRESS
F & G	6600 SANTA BARBARA ROAD
A	6675 AMBERTON ROAD
SUBDIVISION NAME	
ROUTE 100 BUSINESS PARK	
SECTION NAME	PARCEL #
A, F & G	6012
PLAT # 8 LIBER 48 24 FOLIO 14	BLOCK # A
ZONE M-2	TAX MAP 37
ELECT. DIST. 1	CENSUS TRACT 6012
WATER CODE	SEWER CODE

GEORGE WILLIAM STEPHENS, JR. AND ASSOCIATES, INC.
CIVIL ENGINEERS & LAND SURVEYORS
658 KENILWORTH DRIVE, SUITE 100
TOWSON, MARYLAND 21204
(410) 825-8120

ENGINEER CERTIFICATION:
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 Soil Conservation District.

Engineer: *Nicholas J. Brader, III* Date: 10/13/98
Name: Nicholas J. Brader, III PE# 19550

OWNER/DEVELOPER
MIE PROPERTIES CO.
5720 Executive Drive
Baltimore, Maryland 21228-1789
(410) 788-0100

DEVELOPER CERTIFICATION:
I/We certify that all development and construction will be done according to this plan, and that any responsible personnel involved in the construction project will have a Certification of Attendance at a Department of the Environment 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.

Developer: *Jeffrey A. Gish* Date: 10/13/98
Name: Jeffrey A. Gish

DESIGNED BY: H.P.P.
DRAWN BY: P.L.T.
CHECKED BY: N.B.
REVISIONS

Stormwater Management Details
ROUTE ONE HUNDRED BUSINESS PARK BLOCK "A"
Previous File Nos. SDP 72-27, SDP 74-80, F #81
Election District #1
Parcels A, F & G
Scale: As Shown

Howard County, Maryland
October 13, 1998
Sheet 3 of 10

POND CONSTRUCTION SPECIFICATIONS

These specifications are appropriate to all ponds within the scope of the Standard Practice MD-378. All references to ASTM and AASHTO specifications apply to the most recent version.

SITE PREPARATION

Areas designated for borrow areas, embankment, and structural works shall be cleared, grubbed, and stripped of topsoil. All trees, vegetation, roots and other objectionable material shall be removed. Channel banks and sharp breaks shall be sloped to no steeper than 1:1.

Areas to be covered by the reservoir will be cleared of all trees, brush, logs, fence rails, and other objectionable material unless otherwise designated on the plans. Trees, brush, and stumps shall be cut approximately level with the ground surface. For dry stormwater management ponds, a minimum of 50 foot radius around the inlet structure shall be cleared.

All cleared and grubbed material shall be disposed of outside and below the limits of the dam and reservoir as directed by the owner or his representative. When specified, a sufficient quantity of topsoil will be stockpiled in a suitable location for use on the embankment and other designated areas.

EARTH FILL

MATERIAL - The fill material shall be taken from approved designated borrow areas. It shall be free of roots, stumps, wood, rubbish, stones greater than 6" frozen or other objectionable materials. Fill material for the center of the embankment and cut-off trench shall conform to United Soil Classification GC, SC, CH or CL. Consideration may be given to the use of other materials in the embankment if design and construction are supervised by a geotechnical engineer.

PLACEMENT - Areas on which fill is to be placed shall be scarified prior to placement of fill. Fill materials shall be placed in a maximum 8" thick (before compaction) layers which are to be continuous over the entire length of the fill. The most permeable borrow material shall be placed in the downstream portions of the embankment. The principal spillway must be installed concurrently with fill placement and not excavated into 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 such that the required degree of compaction will be obtained with the equipment used. The fill material shall contain sufficient moisture so that if formed into a ball it will not crumble yet not be so wet that the water can be squeezed out.

Minimum required density shall not be less than 95% of maximum dry density with a moisture content within +/- 2% of the optimum. Each layer of fill shall be compacted as necessary to obtain that density, and is to be certified by the Engineer at the time of construction. All compaction is to be determined by AASHTO Method T-99.

Note: See additional compaction requirements per geotechnical engineer. (Sheet 10 of 13)

STRUCTURE BACKFILL

Backfill adjacent to pipes or structures 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 four inches in thickness and compacted by hand tampers or other manually directed compaction equipment. The material needs to fill completely all spaces under and adjacent to the pipe. At no time during the backfilling operation shall driven equipment be allowed to operate closer than four feet, measured horizontally, to any part of a structure. Under no circumstances shall equipment be driven over any part of a concrete structure or pipe, unless there is a compacted fill of 24" or greater over the structure.

PIPE CONDUITS All pipes shall be circular in cross section.

REINFORCED CONCRETE PIPE - All pipe to be circular in cross section

All the following criteria shall apply for reinforced concrete pipe:

1. Materials - Reinforced concrete pipe shall have bell and spigot joints with rubber gaskets and shall equal or exceed ASTM Designation C-561.

2. Bedding - All reinforced concrete pipe conduits shall be laid in a concrete bedding for their entire length. This bedding shall consist of high slump concrete placed under the pipe and on the sides of the pipe at least 10% of its outside diameter with a minimum thickness of 3 inches, or as shown on the plans.

3. Laying Pipe - Bell and spigot pipe shall be placed with the bell end upstream. Joints shall be made in accordance with recommendations of the manufacturer of the material. After the joints are sealed for the entire line, the bedding shall be placed so that all spaces under the pipe are filled. Care shall be exercised to prevent any deviation from the original line and grade of the pipe. The first joint must be located within 2 feet from the riser.

4. Backfilling shall conform to "Structure Backfill".

5. Other details (anti-seep collars, valves, etc.) shall be as shown on the drawings.

PERFORATED PIPE

Bituminous coated corrugated metal pipe (BCOMP) shall conform to the requirements of AASHTO M30 (pipe should be specified to be fully bituminous coated in accordance with AASHTO M30). Perforated pipe is TYPE III. Pipe shall have CLASS 2 perforations 3/8" in diameter.

CONCRETE

Concrete shall meet the requirements of Maryland Department of Transportation, State Highway Administration Standard Specifications for Construction and

CARE OF WATER DURING CONSTRUCTION

All work on permanent structures shall be carried out in areas free from water. The contractor shall construct and maintain all temporary dikes, levees, cofferdams, drainage channels, and stream diversions necessary to protect the areas to be occupied by the permanent works. The contractor shall also furnish, install, operate, and maintain all necessary pumping and other equipment required for removal of water from the various parts of the work and for maintaining the excavations, foundation, and other parts of the work free from water as required or directed by the engineer for constructing each part of the work. After having served their purpose, all temporary protective works shall be removed or leveled and graded to the extent required to prevent obstruction in any degree whatsoever of the flow of water to the spillway or outlet works and so as not to interfere in any way with the operation or maintenance of the structure. Stream diversions shall be maintained until the fill flow can be passed through the permanent works. The removal of water from the required excavation and the foundation shall be accomplished in a manner and to the extent that will maintain stability of the excavated slopes and bottom of required excavations and will allow satisfactory performance of all construction operations. During the placing and compacting of material in required excavations, the water level at the locations being refilled shall be maintained below the bottom of the excavation at such locations which may require draining the water to pumps from which water shall be pumped.

STABILIZATION

All borrow areas shall be graded to provide proper drainage and left in a slightly condition. All exposed surfaces of the embankment, spillway, spoil and borrow areas, and berms shall be stabilized by seeding, liming, fertilizing and mulching in accordance with the Maryland Soil Conservation Service Standards and Specifications for Critical Area Planting (MD-342) or as shown on the accompanying drawings.

Stormwater management facility will be stabilized with permanent slope seeding as follows:

1. Seedbed Preparation - loosen upper 3 inches of soil by raking, discing or other acceptable means before seeding.
2. Soil Amendments - apply 2 tons per acre Dolomitic Limestone (92 lbs/1000sq. ft.), 600 lbs. per acre 10-10-10 fertilizer (14 lbs/1000 sq. ft.), and 400 lbs. per acre of 20-0-0 Ureaform Fertilizer (92 lbs/1000 sq. ft.). Harrow or disc lime and fertilizer into upper 3 inches of soil. At time of seeding, apply 400 lbs. (92 lbs/1000 sq. ft.) of 20-0-0 Ureaform Fertilizer and 500 lbs. per acre (115 lbs/1000 sq. ft.) of 10-0-0 fertilizer.
3. Seeding - for the period March 1 through April 30 seed with 40 lbs. per acre Kentucky 31 Tall Fescue, and 10 lbs. per acre inoculated Crown Vetch. For the period May 1 through July 31 seed with 60 lbs. per acre Kentucky 31 Tall Fescue and 2 lbs. per acre inoculated Weeping Lovegrass. For the period August 1 through October 15 seed with 40 lbs. per acre Kentucky 31 Tall Fescue, and 20 lbs. per acre inoculated Intermediate Sorghum Salspedeza. For the period October 16 through February 29 protect the site by Option (b) 2 tons per acre of well anchored straw. For the period May 1 through February 29 inoculated Crown Vetch shall be applied during the subsequent period of March 1 through April 30 at the rate of 15 lbs. per acre.
4. Mulching - apply 15 to 2 tons per acre of unrotted small grain straw immediately after seeding. Anchor mulch immediately after application using 200 gallons per acre of emulsified asphalt. On flat areas of slope 8 feet or higher, use 340 gallons per acre of anchorage.
5. Maintenance - inspect all seeded areas and make needed repairs, replacements and re-seeding.

EROSION AND SEDIMENT CONTROL
Construction operations will be carried out in such a manner that erosion will be controlled and water and air pollution minimized. State and local laws concerning pollution abatement will be followed. Construction plans shall detail erosion and sediment control measures to be employed during the construction process.

PERMANENT SLOPE SEEDING

After spreading 4" topsoil, seed with a mixture of 30% inoculated Crown Vetch and 70% Kentucky 31 Tall Fescue applied at a rate of 60 lbs./acre; 10-20-20 fertilizer shall be applied at a rate of 25 lbs/1000 sq. ft.; lime at a rate of 92 lbs / 1000 sq. ft.; mulch area with unweathered small grain straw at a rate of 15 tons/acre; anchor with a rapid curing asphalt (RC-70, R-250 or RC-800 at a rate of 0.1 gal/5Y.

PERMANENT SLOPE SEEDING

After spreading 4" topsoil, seed with a mixture of 30% inoculated Crown Vetch and 70% Kentucky 31 Tall Fescue applied at a rate of 60 lbs./acre; 10-20-20 fertilizer shall be applied at a rate of 25 lbs/1000 sq. ft.; lime at a rate of 92 lbs / 1000 sq. ft.; mulch area with unweathered small grain straw at a rate of 15 tons/acre; anchor with a rapid curing asphalt (RC-70, R-250 or RC-800 at a rate of 0.1 gal/5Y.

FILTER CLOTH

Filter cloth shall meet or exceed the requirements in Section 20.25-5 of the Baltimore County Standard Specifications and Details for Construction. Durable filter fabrics for drainage purposes are not limited to Miraf HOS, DuPont TYPAC No. 3341 or 3401.

Filter cloth shall be protected from puncturing or tearing. Any damage other than an occasional small hole shall be repaired by placing another small piece of filter cloth over the damaged area or by replacing the cloth section. All overlaps shall be a minimum of one foot.

GABIONS

Gabions shall meet the requirements of Maryland Department of Transportation, State Highway Administration Standard Specifications for Construction and Materials, Section 312 and must be CL IV, PVC coated.

OUTFALL PROTECTION

Subgrade for riprap or gabion outfalls shall be prepared to the required line and grades. Any fill required in the subgrade shall be compacted to a density of approximately that of the surrounding undisturbed material. All rock or gravel shall conform to the specified grading limits when installed in the riprap or gabion. All stone shall be delivered and placed in a manner that will insure the stone in place shall be reasonably homogeneous with the larger rocks uniformly distributed and firmly

CUT-OFF TRENCH - THE CUT-OFF TRENCH SHALL BE EXCAVATED INTO IMPERVIOUS MATERIAL 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 FOUR FEET. THE DEPTH SHALL BE AT LEAST FOUR FEET BELOW EXISTING GRADE OR AS SHOWN ON THE PLANS. THE SIDE SLOPES OF THE TRENCH SHALL BE 1:1 OR FLATTER. THE BACKFILL SHALL BE COMPACTED WITH CONSTRUCTION EQUIPMENT, ROLLERS, OR HAND TAMPERS TO ASSURE MAXIMUM DENSITY AND MINIMUM PERMEABILITY.

ANTI-SEEP COLLAR NOTES

1. LOCATE COLLARS A MINIMUM OF 2' FROM ALL PIPE JOINTS
2. THE SEAL BETWEEN THE PIPE AND COLLAR SHALL BE WATER TIGHT.
3. COLLAR SHALL PROJECT A MINIMUM OF TWO FEET FROM THE EXTERIOR OF THE CONCRETE GRADE AND THE PIPE ON ALL FOUR SIDES.
4. COLLAR SHALL BE CAST-IN-PLACE REINFORCED CONCRETE WITH 3,500 PSI (MIN) STRENGTH @ 28 DAYS.
5. ALL REINFORCING TO BE CONTINUOUS THROUGHOUT COLLAR.
6. ALL REINFORCING TO HAVE 1" MIN OVERLAP.
7. PROVIDE ADDITIONAL #4 REBARS ALONG THE PERIMETER OF ALL OPENINGS WITH THE AREA OF STEEL EQUAL TO OR GREATER THAN AREA OF STEEL REMOVED DUE TO OPENINGS.
8. TWO (2) INCH COVER MINIMUM FOR ALL REBARS.
9. UNLESS OTHERWISE NOTED COLLAR SHALL BE BUILT IN ACCORDANCE WITH BALTIMORE COUNTY CONSTRUCTION MATERIAL SPECIFICATIONS. COLLAR SHALL NOT BE BRICK.
10. WATER TIGHT SEAL TO BE SIKADUR 32, HE-MOL, CONFORMING TO ASTM C-801, TYPE I & II, GRADE 2, CLASS B & C, EPOXY BONDING/GROUTING ADHESIVE.

CONTROL STRUCTURE NOTES

1. STRUCTURE SHALL BE CAST-IN-PLACE REINFORCED CONCRETE WITH 3,500 PSI (MIN) STRENGTH @ 28 DAYS.
2. ALL REINFORCING TO BE CONTINUOUS THROUGHOUT STRUCTURE.
3. ALL REINFORCING TO HAVE 1" MIN OVERLAPS.
4. PROVIDE ADDITIONAL #4 REBARS ALONG THE PERIMETER OF ALL OPENINGS WITH THE AREA OF STEEL EQUAL TO OR GREATER THAN AREA OF STEEL REMOVED DUE TO OPENINGS.
5. THREE (3) INCH COVER MINIMUM FOR ALL REBARS.
6. UNLESS OTHERWISE NOTED STRUCTURE SHALL BE BUILT IN ACCORDANCE WITH BALTIMORE COUNTY CONSTRUCTION MATERIAL SPECIFICATIONS AND BALTIMORE COUNTY STANDARD PLATE D-232. STRUCTURE SHALL NOT BE BRICK.
7. STRUCTURE TO CONFORM TO THE STRUCTURAL DETAILS REFERRED TO IN BALTIMORE COUNTY PLATE D-232.

POND NOTES

1. NO TREES, SHRUBS OR OTHER WOODY VEGETATION WILL BE ALLOWED WITHIN 50' OF THE INLET STRUCTURE IN THE POOL AREA, AND NOT ALLOWED WITHIN 15' OF THE TOE OF THE EMBANKMENT.
2. IF REQUIRED BY THE SEDIMENT CONTROL INSPECTOR FENCING SHALL BE INSTALLED TO PREVENT ACCESS TO THE BASIN BY CHILDREN.
3. THIS STORMWATER MANAGEMENT FACILITY IS DESIGNED TO MEET OR EXCEED ALL APPLICABLE REQUIREMENTS OF THE BALTIMORE COUNTY DEPARTMENT OF PUBLIC WORKS AND THE SOIL CONSERVATION DISTRICT. MAINTENANCE OF THIS PUBLIC FACILITY WILL BE THE RESPONSIBILITY OF BALTIMORE COUNTY.
4. IF UNSUITABLE (PREVIOUS) MATERIAL IS ENCOUNTERED AT TIME OF CUT-OFF TRENCH INSTALLATION DEEPER THAN 4'; IT WILL BE NECESSARY TO EXTEND THE CUT-OFF TRENCH DOWN UNTIL SUITABLE MATERIAL IS ENCOUNTERED AS DETERMINED BY A GEOTECHNICAL ENGINEER. AT TIME OF CONSTRUCTION EXISTING SOIL ADJACENT TO CUT-OFF TRENCH SHALL BE EVALUATED FOR SEEPAGE BY A GEOTECHNICAL ENGINEER AND ADDRESSED PER RECOMMENDATIONS OF THE GEOTECHNICAL ENGINEER.
5. SOILS TO BE USED FOR CUT-OFF TRENCH SHALL CONFORM TO UNIFIED CLASSES CL, SC, CH OR GC.

GENERAL NOTES

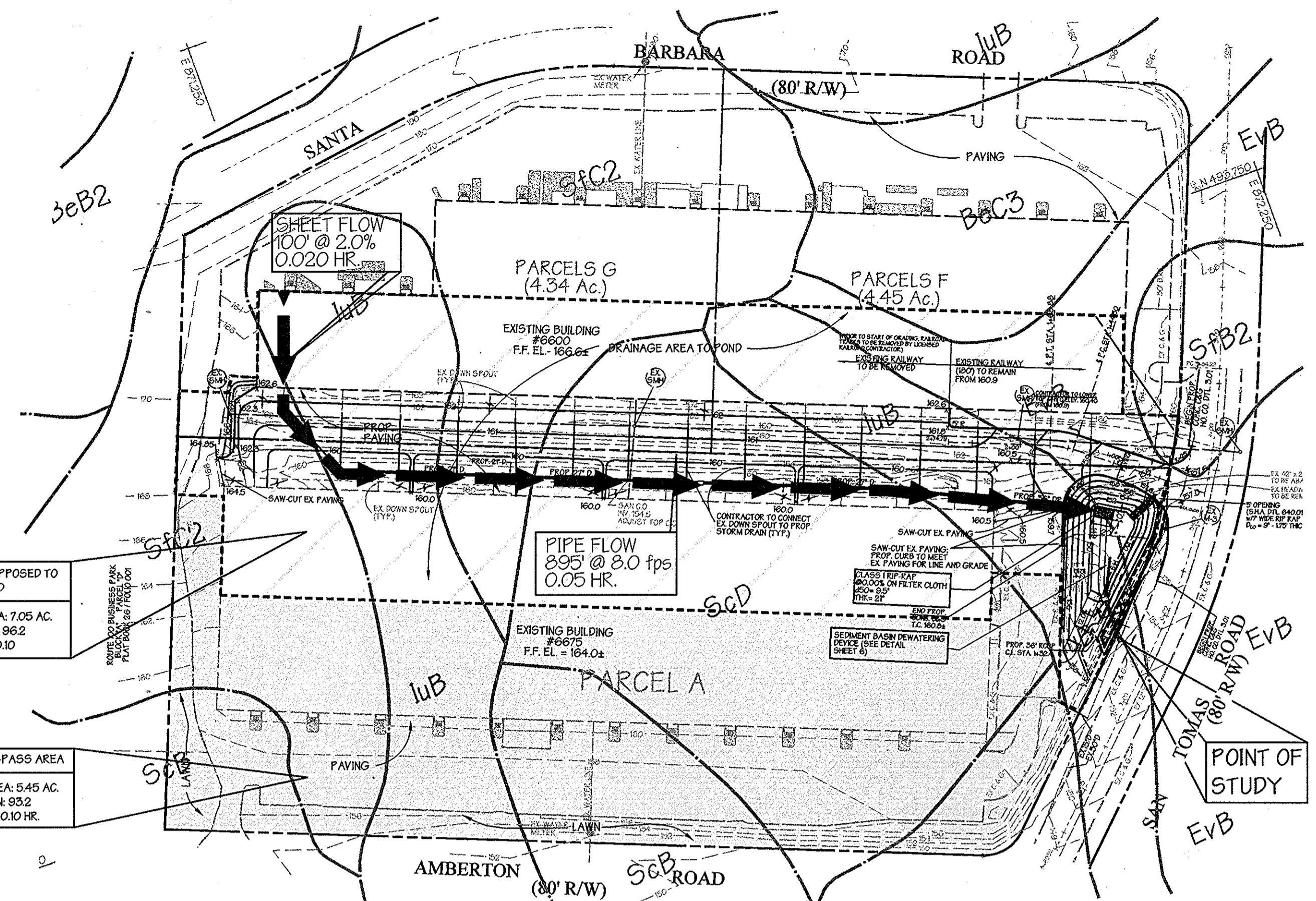
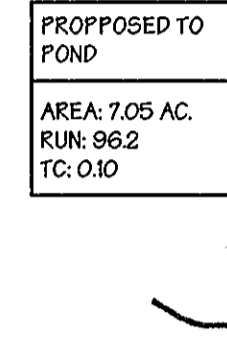
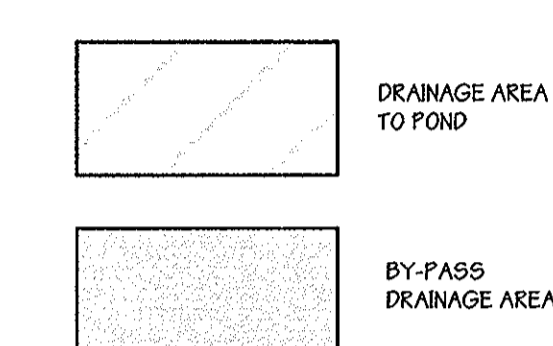
- UNLESS OTHERWISE NOTED, ALL CONSTRUCTION AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH:
1. HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION, 1976, ERRATA AND ADDENDA.
 2. SOIL CONSERVATION SERVICE MARYLAND STANDARDS AND SPECIFICATIONS POND CODE 378, NOVEMBER, 1992.
 3. MARYLAND DEPARTMENT OF TRANSPORTATION STATE HIGHWAY ADMINISTRATION, JANUARY, 1992, STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIAL.
 4. STORMWATER MANAGEMENT APPROVED UNDER BILL 105-84.

AS-BUILT NOTES

1. AS-BUILT PLANS AND CERTIFICATION ARE REQUIRED FOR THIS STORMWATER MANAGEMENT FACILITY. THESE MUST BE PREPARED AND SEALED BY A REGISTERED PROFESSIONAL ENGINEER, HOWARD COUNTY WILL NOT PERFORM THE INSPECTION OR PREPARE THE AS-BUILT PLANS OR CERTIFICATION. THE STORMWATER MANAGEMENT PERMIT SECURITY WILL NOT BE RELEASED UNTIL THE AS-BUILT PLANS AND CERTIFICATION ARE APPROVED BY BALTIMORE COUNTY.
2. IN ORDER TO PREPARE THE REQUIRED AS-BUILT PLANS AND CERTIFICATION, THIS STORMWATER MANAGEMENT FACILITY MUST BE INSPECTED BY THE ENGINEER AT THE SPECIFIC STAGES DURING CONSTRUCTION AS REQUIRED BY THE CURRENT HOWARD COUNTY STORMWATER MANAGEMENT POLICY AND DESIGN MANUAL. THE CONTRACTOR SHALL NOTIFY THE ENGINEER AT LEAST FIVE (5) WORKING DAYS PRIOR TO STARTING ANY WORK SHOWN ON THESE PLANS.

STOCKPILE/SPOIL AREA NOTES

ANY AREA NEEDED FOR TEMPORARY STOCKPILE AND SEDIMENT BASIN SPOIL WILL BE LOCATED WITHIN THE LIMIT OF DISTURBANCE AND UPSTREAM FROM A DEDICATED CONTROL MEASURE, BUT LOCATED SUCH AS NOT TO IMPEDE UPON THE MEASURE.



PROPOSED DRAINAGE AREA MAP

SCALE: 1" = 100'
SHALLOW RUN (DEAN RUN) WATERSHED
PROPOSED LAND USE: COMMERCIAL (OFFICE WAREHOUSE)

Legend

- Ex. Contours ----- 394
- Prop. Contours ----- 394
- Ex. Curb & Gutter -----
- Prop. Curb & Gutter -----
- Ex. Sanitary -----
- Ex. Storm Drain -----
- Ex. Water -----
- EX. R/W -----
- DRAINAGE AREA -----

SOIL TYPES	HYDROLOGIC SOIL GROUPS
C	IuB
C	ScB
C	ScD
* B	SfC2, Sfb2
* A	Evc

These plans for small pond construction, soil erosion and sediment control meet the requirements of Howard Soil Conservation District.

APPROVED: HOWARD SOIL CONSERVATION DISTRICT *[Signature]* 1/1/99

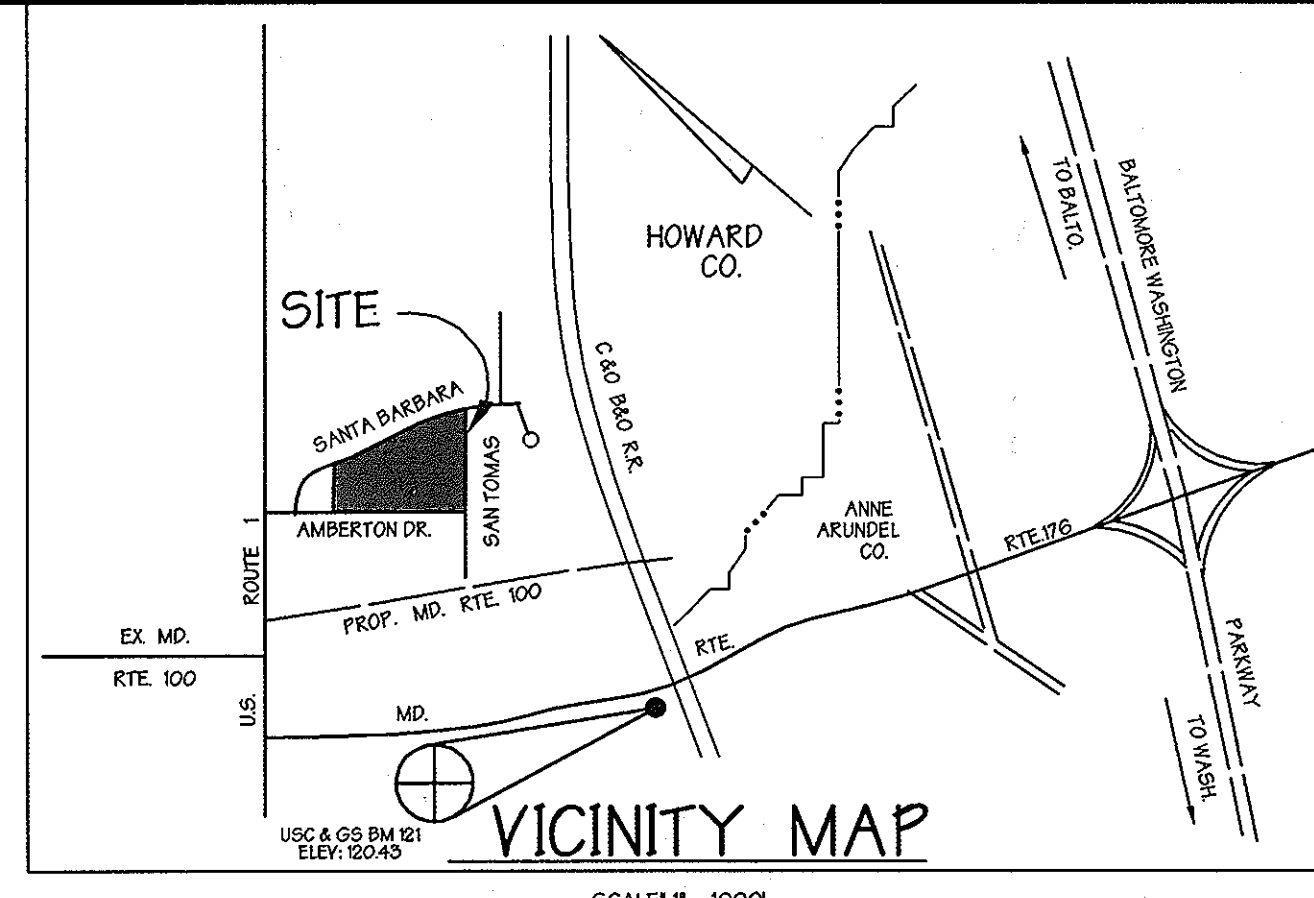
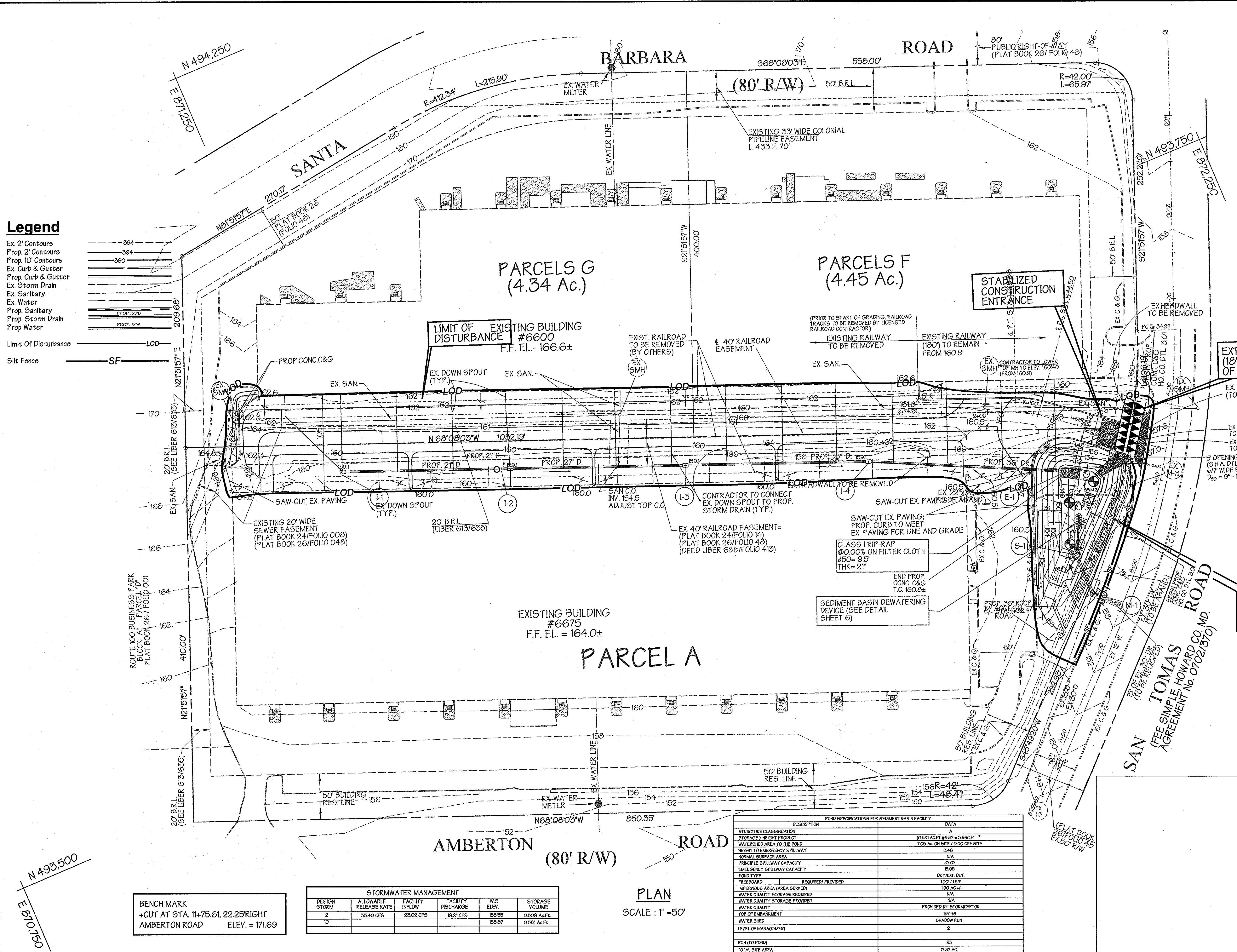
PLAN NUMBER

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: *[Signature]* 1/1/99

USDA-NATURAL RESOURCES CONSERVATION SERVICE

APPROVED: Howard County Department of Planning and Zoning *[Signature]* 1/1/99



- Legend**
- Ex. 2' Contours
 - Prop. 2' Contours
 - Prop. 10' Contours
 - Ex. Curb & Gutter
 - Prop. Curb & Gutter
 - Ex. Storm Drain
 - Prop. Storm Drain
 - Ex. Sanitary
 - Prop. Sanitary
 - Prop. Storm Drain
 - Prop. Water

- Sequence of Operation**
- OBTAIN GRADING PERMIT.
 - NOTIFY THE HOWARD COUNTY DEPARTMENT OF PERMITS AND LICENSES 48 HOURS BEFORE BEGINNING WORK. (1 DAY)
 - INSTALL RISER, BARREL & DEWATERING DEVICE. OBTAIN PERMISSION OF SEDIMENT CONTROL INSPECTOR BEFORE PROCEEDING.
 - INSTALL SILT FENCE, STABILIZED CONSTRUCTION ENTRANCE AND SEDIMENT BASIN. PLUG EXIST. HEADWALL NORTH OF STAB. CONSTRUCTION ENTRANCE ONCE BASIN IS INSTALLED. (DRY STORAGE EL. 154.46; PERMANENT POOL EL. 152.54; CLEANOUT EL. 151.15) HEADWALL IS TO BE REMOVED DURING UTILITY WORK IN STEP 4. (7 DAYS)
 - FINE GRADE, INSTALL UTILITIES. (2 WEEKS)
 - INSTALLED CURB & GUTTER. (1 DAY)
 - COMPLETION PAVING OPERATIONS. (2 WEEKS)
 - WITH PERMISSION OF SEDIMENT CONTROL INSPECTOR REMOVE REMAINING SEDIMENT CONTROL DEVICES, CONVERT THE SEDIMENT BASIN TO STORM WATER MANAGEMENT FACILITY, AND STABILIZED WITH PERMANENT SEEDING. (3 DAYS)
- * ALL WORK IN EXISTING PAVED AREAS IS TO BE STABILIZED WITH STONE AT THE END OF EACH WORK DAY.

SEDIMENT BASIN

These plans for S.W.M. construction, soil erosion and sediment control meet the requirements of Howard Soil Conservation District.

APPROVED: *Howard Soil Conservation District*
 APPROVED: HOWARD SOIL CONSERVATION DISTRICT
 PLAN NUMBER: _____ DATE: 1/10/99

Reviewed for the Howard Conservation District and meets technical requirements
 APPROVED: *Chief Summary*
 NATURAL RESOURCES CONSERVATION SERVICE
 DATE: 1/14/99

APPROVED: Howard County Department of Planning and Zoning
 APPROVED: *Chief Development Engineering Division*
 CHIEF, DEVELOPMENT ENGINEERING DIVISION
 APPROVED: *Chief Division of Land Development*
 CHIEF, DIVISION OF LAND DEVELOPMENT
 DATE: 1/13/99
 DATE: 1/21/99

APPROVED: *Director*
 DIRECTOR
 DATE: 1/22/99

PARCEL NO.	STREET ADDRESS
F & G	6600 SANTA BARBARA ROAD
A	6675 AMBERTON RD.

SUBDIVISION NAME	SECTION NAME	PARCEL #
ROUTE 100 BUSINESS PARK	1	A, F & G
PLAT # 28 FOLIO 48 24 FOLIO 14	BLOCK # A ZONE M-2 TAX MAP 37	ELECT. DIST. 1 CENSUS TRACT 6012
WATER CODE _____ SEWER CODE _____		

DESCRIPTION	DATA
STRUCTURE CLASSIFICATION	
STORAGE (NEIGHT PRODUCT)	(0.581 AC) (11.97) = 3.98 CFT
WATERSHED AREA TO THE POND	7.05 AC ON SITE / 0.00 OFF SITE
HEIGHT TO EMERGENCY SPILLWAY	8.66
NORMAL SURFACE AREA	N/A
PERKINS SPILLWAY CAPACITY	37.07
EMERGENCY SPILLWAY CAPACITY	15.95
POND TYPE	DRYEST DEF.
FREEDRAIN	REQUIRED / PROVIDED
INFILTRATION AREA (AREA SERVED)	100' / 150'
WATER QUALITY STORAGE REQUIRED	190 AC @ 1"
WATER QUALITY STORAGE PROVIDED	N/A
WATER QUALITY	PROVIDED BY STORMCEPTOR
TOE OF EMBANKMENT	157.46
WATER SHED	SHADOW RUN
LEVEL OF MANAGEMENT	2
RCN (TO POND)	93
TOTAL SITE AREA	11.87 AC

DESIGN STORM	ALLOWABLE RELEASE RATE	FACILITY INFLOW	FACILITY DISCHARGE	W.S. ELEV.	STORAGE VOLUME
2	36.40 CFS	23.02 CFS	19.21 CFS	155.55	0.509 AC.FT.
10	36.40 CFS	23.02 CFS	19.21 CFS	155.87	0.581 AC.FT.

BENCH MARK
 +CUT AT STA. 11+75.61, 22.25' RIGHT
 AMBERTON ROAD ELEV. = 171.69

PLAN SCALE: 1" = 50'

GEORGE WILLIAM STEPHENS, JR. AND ASSOCIATES, INC.
 CIVIL ENGINEERS & LAND SURVEYORS
 658 KENILWORTH DRIVE, SUITE 100
 TOWSON, MARYLAND 21284
 (410) 825-8120

ENGINEER CERTIFICATION:
 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 Soil Conservation District.

Engineer: *Nicholas J. Brader, III* Date: 10/13/98
 Name: Nicholas J. Brader, III PE# 18558

OWNER/DEVELOPER
 MIE PROPERTIES CO.
 5720 Executive Drive
 Baltimore, Maryland 21228-1789
 (410) 788-0100

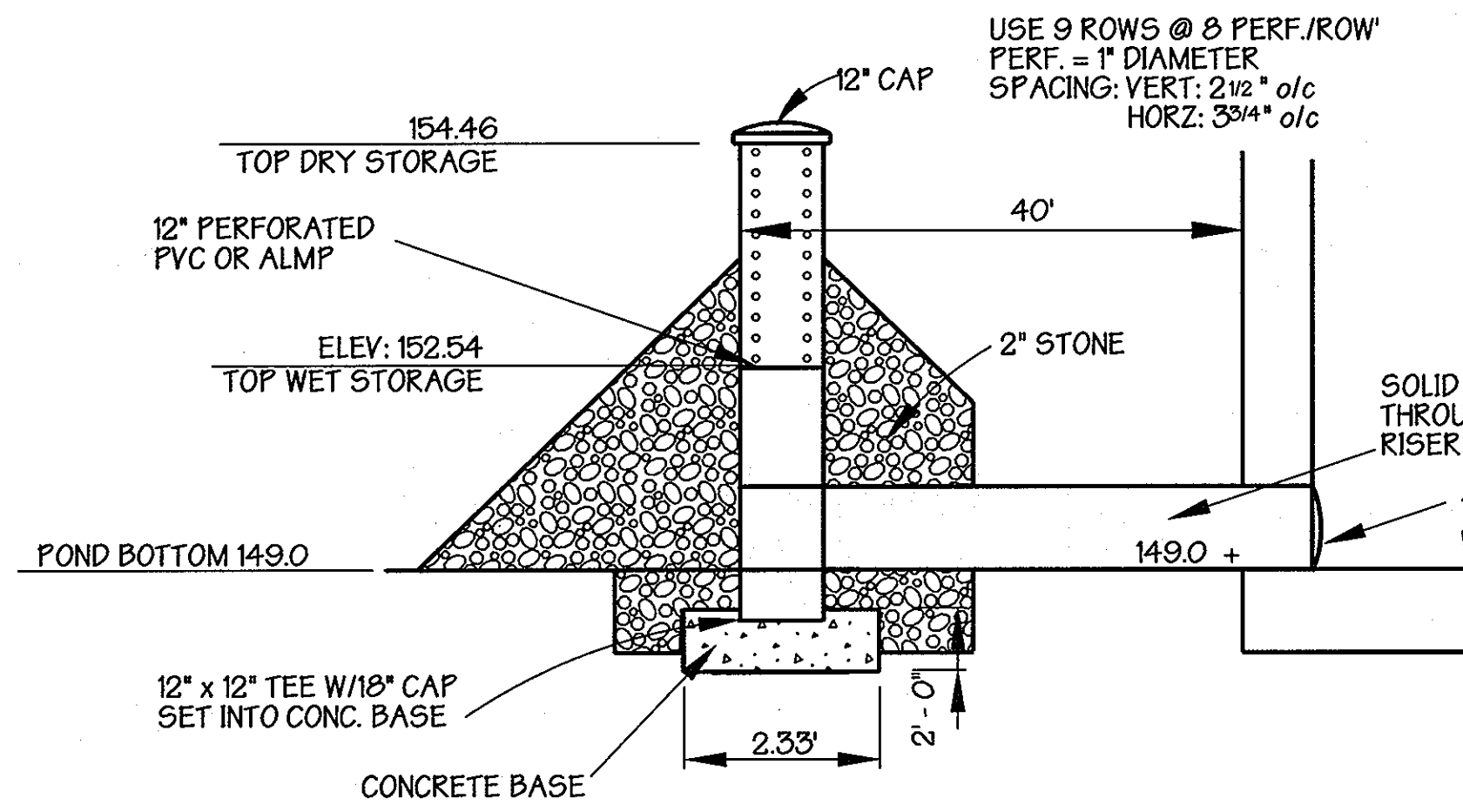
DEVELOPER CERTIFICATION:
 I/We certify that all development and construction will be done according to this plan, and that any responsible personnel involved in the construction project will have a Certification of Attendance at a Department of the Environment Approved Training Program for the Control of Sediment and Erosion before beginning the project. I also authorize periodic on-site inspection by the Howard Soil Conservation District.

Developer: *Jeffrey A. Gish, P.E.* Date: 10/13/98
 Name: Jeffrey A. Gish, P.E.

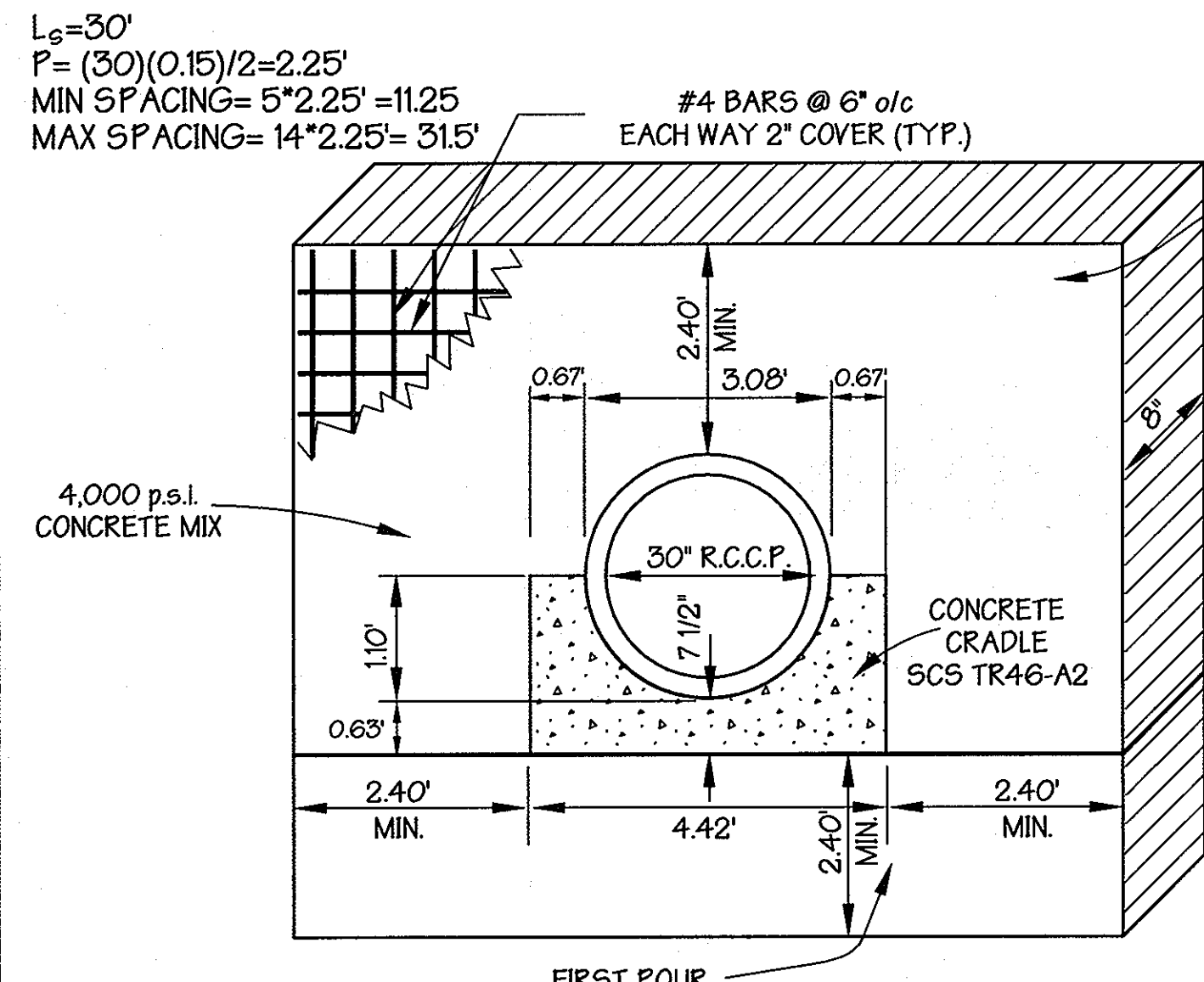
DESIGNED BY: H.P.P.
 DRAWN BY: P.L.T.
 CHECKED BY: N.B.
 REVISIONS

Sediment Control Plan
ROUTE ONE HUNDRED BUSINESS PARK
BLOCK "A"
 Previous File Nos. SDP 72-27, SDP 74-80, F #81
 Election District #1
 Parcels A, F & G
 Scale: 1"=50'

Howard County, Maryland
 October 13, 1998
 Sheet 5 of 810

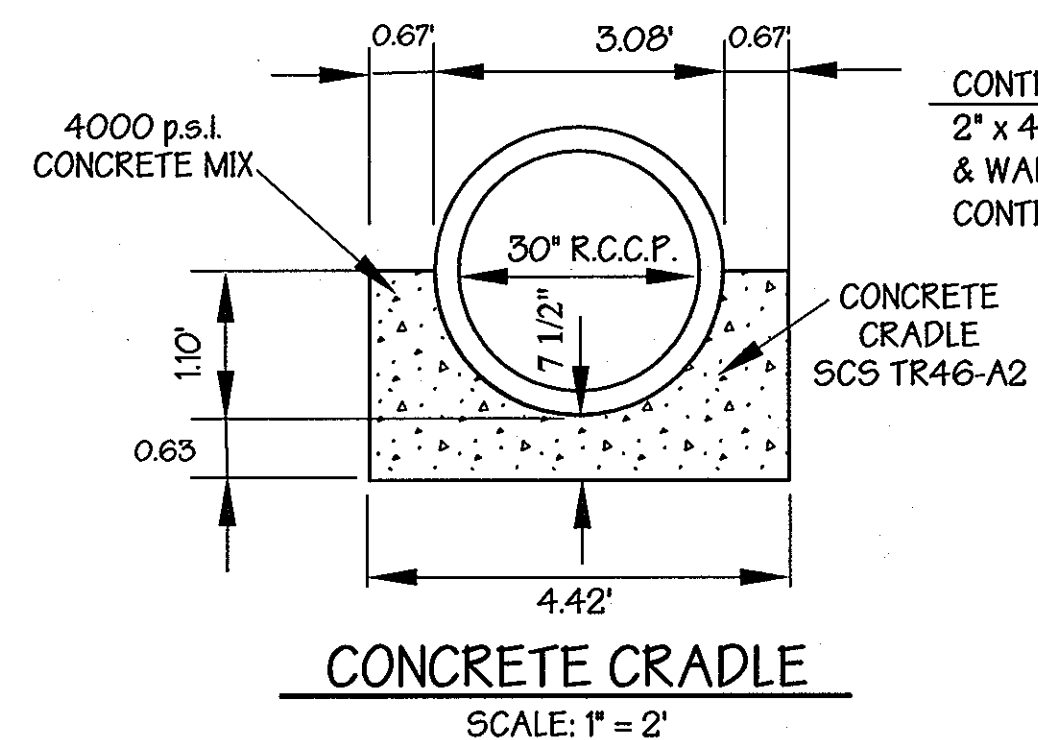


BASIN DRAWDOWN DEVICE PERFORATED PIPE DETAIL - BASIN #1
NO SCALE

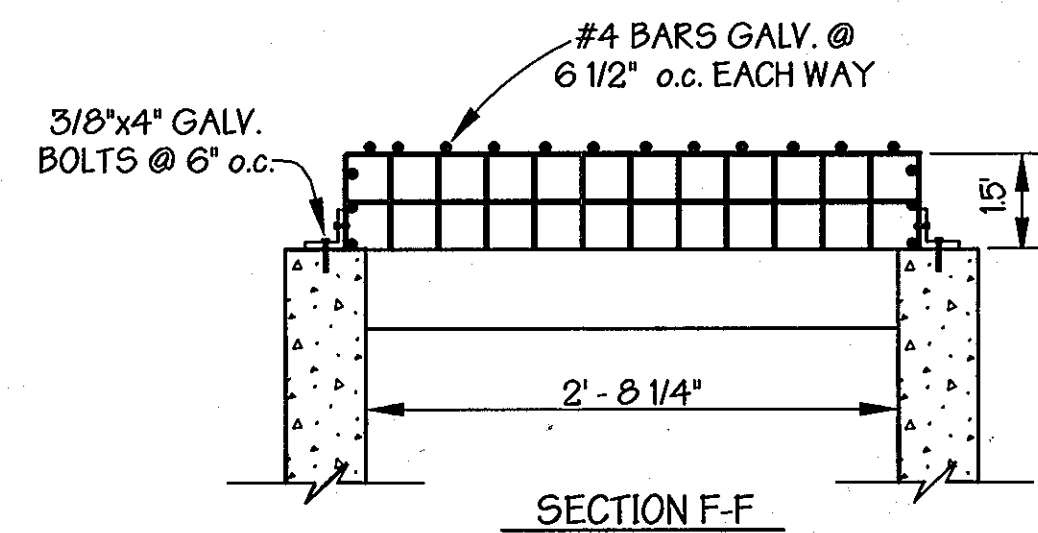


- NOTES**
- UNLESS OTHERWISE NOTED, CAST-IN-PLACE STRUCTURE SHALL BE BUILT IN ACCORDANCE WITH HOWARD CO. STD. DETAIL (PLATE 5-D. 4-23).
 - STRUCTURE TO BE CAST-IN-PLACE REINFORCED CONCRETE WITH 3500 P.S.I. (MIN.) COMPRESSIVE STRENGTH @ 28 DAYS.
 - ALL REINFORCING TO BE CONTINUOUS THROUGHOUT STRUCTURE.
 - ALL REINFORCING TO HAVE 1-6" MIN. OVERLAPS.
 - TWO (2) INCH COVER MINIMUM FOR ALL REBARS IN WALLS AND THREE (3) INCHES FOR THE BASE.
 - PROVIDE ADDITIONAL #4 REBARS ALONG THE PERIMETER OF ALL OPENINGS WITH THE AREA OF STEEL EQUAL TO OR GREATER THAN THE AREA OF STEEL "REMOVED" DUE TO OPENING.
 - ALL EXPOSED CORNERS OF CONCRETE SHALL BE CHAMFERED WITH 3/4" X 3/4" MILLED CHAMFER STRIPS.

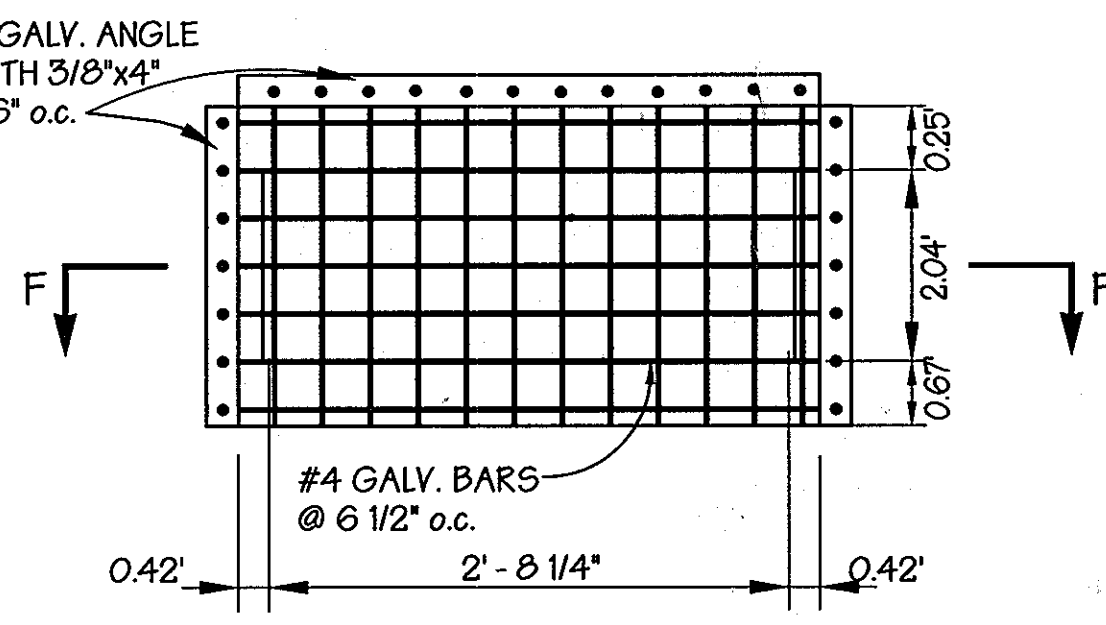
CONCRETE ANTI-SEEP COLLAR
SCALE: 1" = 2'



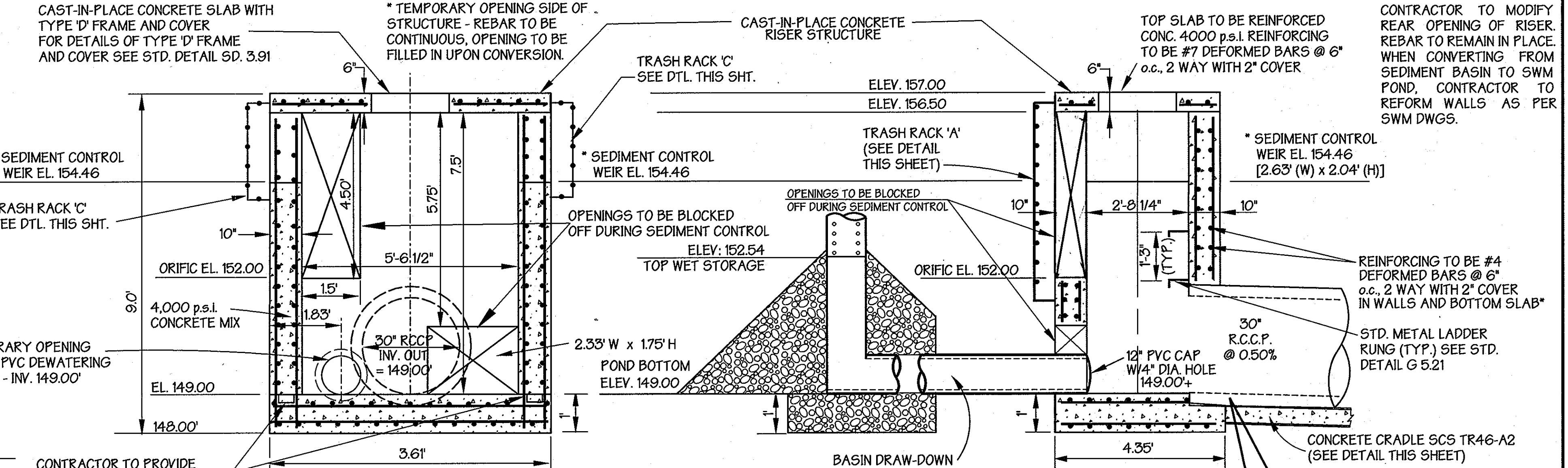
CONCRETE CRADLE
SCALE: 1" = 2'



NOTE: TRASH RACKS ARE TO BE HOT DIPPED GALVANIZED AFTER FABRICATION

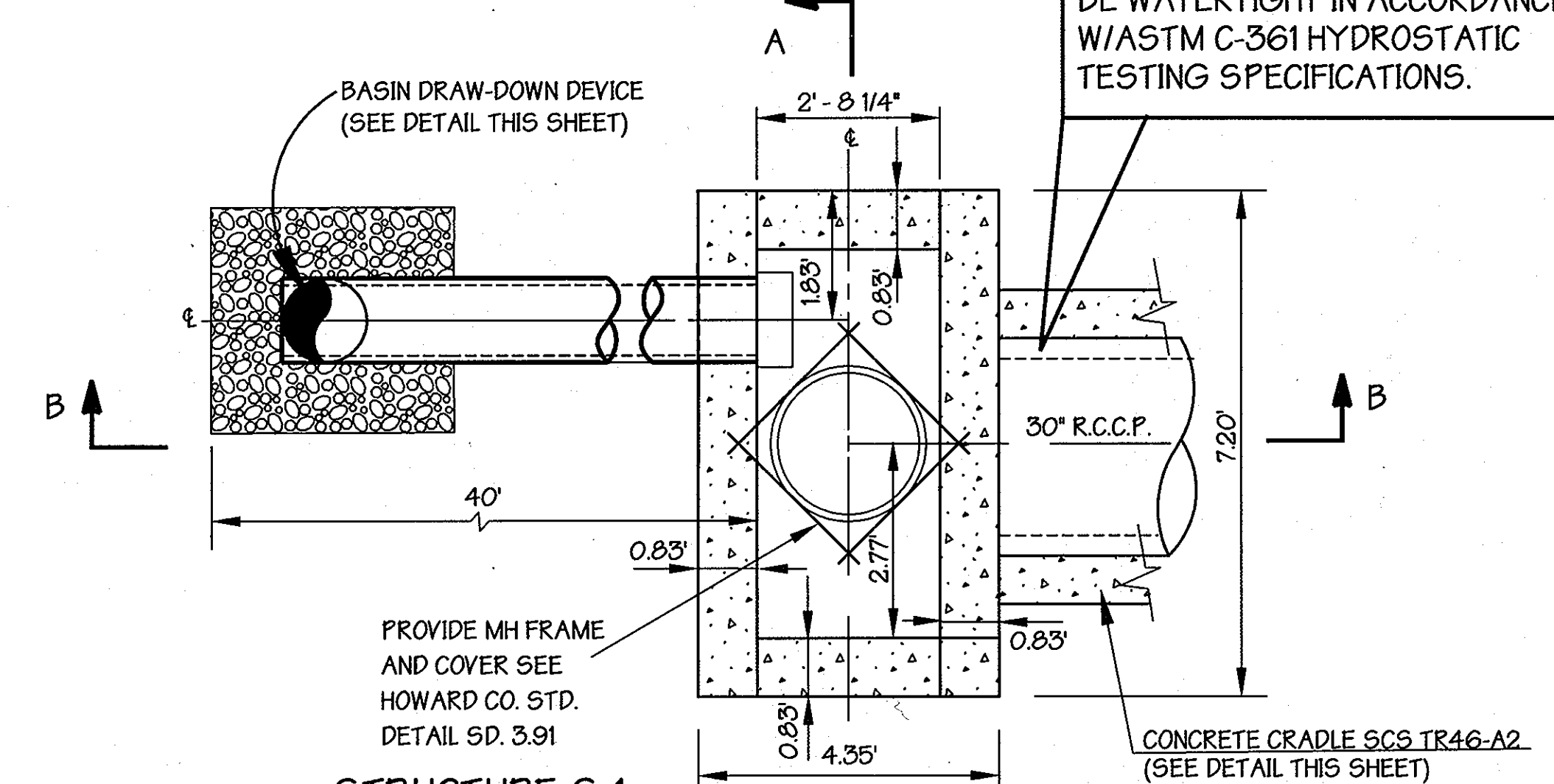


TRASH RACK DETAILS 'C'
NO SCALE



SECTION A-A

SECTION B-B



STRUCTURE S-1 MODIFIED DOUBLE 'S'
(HOWARD CO. DETAIL 5D-4-23)
SCALE: 1" = 2'

PRINCIPLE SPILLWAY PIPE SHALL BE WATERTIGHT IN ACCORDANCE WITH ASTM C-361 HYDROSTATIC TESTING SPECIFICATIONS.

These plans for S.W.M. construction, soil erosion and sediment control meet the requirements of Howard Soil Conservation District.

APPROVED: *Jeffrey A. Glash* HOWARD SOIL CONSERVATION DISTRICT
DATE: 1/16/99

Reviewed for the Howard Conservation District and meets technical requirements.

APPROVED: *Cheryl Simms* NATURAL RESOURCES CONSERVATION SERVICE
DATE: 1/16/99

APPROVED: Howard County Department of Planning and Zoning

APPROVED: *William D. ...* CHIEF, DEVELOPMENT ENGINEERING DIVISION
DATE: 1/13/99

APPROVED: *Christy Hamilton* CHIEF, DIVISION OF LAND DEVELOPMENT
DATE: 1/21/99

APPROVED: *James S. ...* DIRECTOR
DATE: 1/22/99

ADDRESS CHART	
PARCEL NO.	STREET ADDRESS
F & G	6600 SANTA BARBARA ROAD
A	6675 AMBERTON ROAD
SUBDIVISION NAME: ROUTE100 BUSINESS PARK	
SECTION NAME: A, F & G	
PARCEL # A, F & G	
FLAT # 24 FOLIO 14	BLOCK # A
ZONE M-2	TAX ZONE MAP 37
ELECT. DIST. 1	CENSUS TRACT 6012
WATER CODE	
SEWER CODE	

GEORGE WILLIAM STEPHENS, JR. AND ASSOCIATES, INC.
CIVIL ENGINEERS & LAND SURVEYORS
658 KENILWORTH DRIVE, SUITE 100
TOWSON, MARYLAND 21204
(410) 825-8120

ENGINEER CERTIFICATION:
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 Soil Conservation District.

Engineer: *Nicholas J. Brader, III* Date: 10/13/98
Name: Nicholas J. Brader, III PE # 12658

OWNER/DEVELOPER

MIE PROPERTIES CO.
5720 EXECUTIVE DRIVE
BALTIMORE, MARYLAND 21228-1789
(410) 788-0100

DEVELOPER CERTIFICATION:
I/We certify that all development and construction will be done according to this plan, and that any responsible personnel involved in the construction project will have a Certification of Attendance at a Department of the Environment 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.

Developer: *Jeffrey A. Glash* Date: 10/13/98
Name: Jeffrey A. Glash, V.P.

DESIGNED BY: H.F.P.
DRAWN BY: P.L.T.
CHECKED BY: N.B.
REVISIONS:

Sediment Control Details
ROUTE ONE HUNDRED BUSINESS PARK
BLOCK "A"
Previous File Nos. SDP 72-27, SDP 74-80, F #81
Election District #1
Parcels A, F & G
Scale: As Shown

Howard County, Maryland
October 13, 1998
Sheet 6 of 8 to

GENERAL NOTES
1. Refer to 1994 Maryland Standards and Specifications for Soil Erosion and Sediment Control for standard details and detailed specifications for each practice specified herein.
2. This plan approval of the sediment control Inspector, when field adjustments can and will be made to comply with any conditions. Changes in sediment control practices require prior approval of the sediment control Inspector and the Baltimore County Soil Conservation District.

Application of liquid herbicides should be heavier at the edges where wind catches much, such as in valleys and on the crests of hills. The remainder of area should appear uniform after application. Synthetic herbicides - such as Atrazine (Atrazine), Alachlor, Picloram, Trifluralin, etc. - should be applied only if approved by the manufacturer or an authorized applicator.
Temporary Seeding
Vegetation - annual grass or grasses used to provide cover on disturbed areas for up to 12 months. For longer duration of vegetative cover, Permanent Seeding is required.

Section I - Vegetative Stabilization Methods and Materials
A. Site Preparation
1. Install erosion and sediment control structures (either temporary or permanent) such as diversion, grade stabilization structures, berms, waterways, or sediment control basins.
2. Perform all grading operations as right angle to the slope. Final grading and sloping is not usually necessary for temporary structures.

B. Soil Amendments (Fertilizer and Lime Specifications)
1. Soil tests must be performed to determine the exact ratios and application rates for both lime and fertilizer on sites having soil deficiencies. Soil analysis may be performed by the University of Maryland or a recognized commercial laboratory. Soil samples may be taken for routine analysis from any location on the site.
2. Fertilizers shall be uniform in composition, free flowing and suitable for accurate application by approved equipment. Material may be substituted for fertilizer with prior approval from the appropriate authority. Fertilizers shall be delivered to the site in bulk according to the applicable state fertilizer laws and shall bear the name, trade name or trademark and warranty of the producer.

C. Seeded Preparation
1. Temporary Seeding
a. Seeded preparation shall consist of loosening soil to a depth of suitable agricultural or construction equipment, such as also harrow or chain plow or ripper mounted on construction equipment. After the soil is loosened, it should be rolled or dragged with a 100-150 lb. roller.
b. Incorporate lime and fertilizer into the top 3-5" of soil by disking or other suitable means.

F. Fertilizer Application
1. Minimum soil conditions required for permanent vegetative establishment:
a. Soil pH shall be between 6.0 and 7.0.
b. Available nitrogen shall be less than 500 parts per million (ppm).
c. Available phosphorus shall be less than 40 ppm.
d. Available potassium shall be less than 1000 ppm.
e. Soil shall contain less than 4% organic matter.
f. Soil shall contain less than 15% organic matter.
g. Soil shall contain less than 15% organic matter.
h. Soil shall contain less than 15% organic matter.

G. Seed Specifications
1. All seed must meet the requirements of the Maryland State Seed Law. All seed shall be subject to re-testing by a recognized seed laboratory. All seed used shall have been tested within the 6 months immediately preceding the date of sowing in this site.
NOTE: SEED TAGS SHALL BE MADE AVAILABLE TO THE INSPECTOR TO VERIFY TYPE AND RATE OF SEED USED.

H. Methods of Seeding
1. Hydroseeding: Apply seed uniformly with hydroseeder (slurry includes seed and fertilizer), broadcast or dry seed, or a topdress seeder.
a. Fertilizer is being applied at the time of seeding, the application rates amounts will not exceed the following: nitrogen maximum of 100 lb. per acre, total phosphorus (P2O5) (phosphorus) 200 lb./acre; K2O (potassium) 200 lb./acre.
b. Lime - use only ground agricultural limestone. Do not use any lime which may be applied by hydroseeding. Normally, not more than 5 tons are applied by hydroseeding at any one time. Do not use burnt or hydrated lime when hydroseeding.

I. Seed Application
1. Dry Seeding: This includes use of conventional drop or broadcast spreaders.
a. Seed spread dry shall be incorporated into the soil at the rates prescribed on the Temporary or Permanent Seeding Statements or Tables 25 or 26. The seed rate shall be increased or reduced by a minimum of 10% to provide for seed to seed contact.
b. Where practical, seed should be applied in two directions perpendicular to each other. Apply half the seeding rate in each direction.

J. Mulch Specifications (in order of preference)
1. Straw shall consist of thoroughly threshed wheat, rice or oat straw, reasonably bright in color, and shall not be overly moldy, chaffed, degraded, or excessively dense and shall be free of noxious weed seeds as specified in the Maryland Seed Law.
2. Wood Cellophane Fiber Mulch (WCFM)
a. WCFM shall consist of specially prepared wood cellophane processed into a uniform fibrous physical state.
b. WCFM shall be dyed green or contain a green dye in the package that will provide an appropriate color distribution and appearance to the underlying ground surface.
c. WCFM including dye, shall contain no germination or growth inhibiting factors.

K. WCFM Material
1. WCFM material shall be manufactured and processed in such a manner that the wood cellophane fiber mesh will remain in uniform suspension in water under agitation and will blend with seed, fertilizer and other additives to form a homogeneous slurry. The mesh will remain suspended in water and will cover, on application, having moisture absorption and penetration properties and shall cover and hold area seed in contact with the soil without inhibiting the growth of the grass seedlings.
2. WCFM material shall conform to elements or compounds at concentrations levels that will be phytotoxic.

L. WCFM Mesh
1. WCFM mesh shall conform to the following physical requirements: fiber length to approximately 10 mm, diameter approximately 1 mm, pH range of 4.0 to 8.5, ash content of 15% maximum and water holding capacity of 20% minimum.
NOTE: ONLY STERILE STRAW WHICH SHOULD BE USED IN AREAS WHERE ONE SPECIES OF GRASS IS DESIRED.

M. Seeding
1. If grading is completed outside of the seeding season, mulch alone shall be applied as prescribed in the section and maintained until the seeding season returns and seeding can be performed in accordance with these specifications.
2. When straw mulch is used, it shall be spread over all seeded areas at the rate of 2 tons/acre. Mulch shall be applied to a uniform loose depth of between 1" and 2". Mulch applied shall achieve a uniform distribution and appearance to the underlying ground surface. If a mulch anchor is to be used, the rate should be increased to 2.5 tons/acre.

N. Wood Cellophane Fiber Mulch (WCFM)
1. Wood cellophane fiber used as a mulch shall be applied at a net dry weight of 1500 lb. per acre. The seed cellophane fiber shall be applied at the rate of 1500 lb. per acre. The seed cellophane fiber shall be applied at the rate of 1500 lb. per acre. The seed cellophane fiber shall be applied at the rate of 1500 lb. per acre.

O. Securing Straw Mulch (Mulch Anchoring)
1. Mulch anchoring shall be performed immediately following final application to stabilize loose by wind. This may be done by one of the following methods (in order of preference), depending upon site area and erosion hazard:
a. A mulch anchoring tool is a tractor draw implement designed to punch and anchor mulch into the surface to stabilize loose by wind. This practice is most effective on large areas, but is better on flatter slopes where equipment can operate safely. If used on sloping land, this practice should be used on the upper portion of the slope.
b. Wood cellophane fiber may be used for anchoring straw. The fiber binder shall be applied at a net dry weight of 750 pounds/acre. The wood cellophane fiber shall be mixed with water and the mixture shall contain a maximum of 50 pounds of wood cellophane fiber per 100 gallons of water.

Table 25 - Permanent Seeding for Low Maintenance Areas. HARDINESS ZONE. Columns include Species, Planting Rate, Site Conditions, USDA Hardiness Zones, and Recommended Planting Dates.

Placement of topsoil over a prepared subsoil prior to establishment of permanent vegetation.
To provide a suitable soil medium for vegetative growth. Soils of concern have low moisture content, low nutrient levels, low pH (material toxic to plants, and/or unsuitable soil gradation.)
Conditions Where Practice Applies
1. This practice is limited to areas having 2:1 or flatter slopes where:
a. The texture of the exposed subsoil/parent material is not adequate to produce vegetative growth.
b. The soil material is so shallow that the rooting zone is not deep enough to support plants or furnish containing supplies of moisture and plant nutrients.

Construction and Material Specifications
1. Topsoil salvaged from the existing site may be used provided that it meets the standards as set forth in these specifications. Typically, the depth of topsoil to be salvaged for a given soil type can be found in the representative soil profile section in the Soil Survey published by USDA-SCS in cooperation with Maryland Agricultural Experiment Station.
2. Topsoil Specifications - Soil to be used as topsoil must meet the following:
a. Topsoil shall be a loam, sandy loam, clay loam, silty loam, sandy clay loam, loamy sand. Other soils may be used if recommended by an agronomist or soil scientist and approved by the appropriate approval authority.
b. The soil shall be free of rocks, stones, slag, coarse fragments, gravel, sticks, roots, trash or other material larger than 1/8" in diameter.

3. For sites having disturbed areas over 5 acres:
a. Place topsoil (if required) and apply soil amendments as specified in 2.0.0 Vegetative Stabilization - Section I - Vegetative Stabilization Methods and Materials.
b. For sites having disturbed areas over 5 acres:
a. On soil meeting Topsoil specifications, obtain test results dictating fertilizer and lime amendments required to bring the soil into compliance with the following:
a. pH for topsoil shall be between 6.0 and 7.5. If the tested soil demonstrates a pH of less than 6.0, sufficient lime shall be prescribed to raise the pH to 6.5 or higher.
b. Organic content of topsoil shall be not less than 15 percent by weight.
c. Topsoil having soluble salt content greater than 500 parts per million shall not be used.
d. No soil or seed shall be placed on soil which has been treated with soil sterilants or chemicals used for weed control until sufficient time has elapsed (14 days min) to permit dissipation of phytotoxic materials.

FERTILIZER RATE. Columns include Fertilizer Type (0-20-20, 15-15-15, etc.), Fertilizer Rate (lb/1000 sq ft), and Lime Rate (lb/1000 sq ft).

NOTE: Turfgrass varieties should be selected from those listed in the most current University of Maryland Publication, Agronomy Bulletin #77, Turfgrass Culture Recommendations for Maryland.
Western MD, March 15-June 1, August 1-October 1 (Hardiness Zones - 5b, 6a)
Central MD, March 15-May 15, August 15-October 15 (Hardiness Zones - 6b)
Southern MD, Eastern Shore, March 15-May 15, August 15-October 15 (Hardiness Zones - 7a, 7b)
C. Irrigation
If soil moisture is deficient, apply new seedlings with adequate water for plant growth (1/2" - 1" every 3 to 4 days depending on soil texture) until they are firmly established. This is especially true when seedlings are much later in the planting season, or abnormality dry or hot seasons, or on adverse sites.

D. Signs and Maintenance
Inspect all seeded areas for failures and make necessary repairs, replacements, and reseedings within the planting season.
1. Once the vegetation is established, the site shall have 90% groundcover to be considered adequately stabilized.
2. If the stand provides less than 40% ground cover, reestablish following original lime, fertilizer, seed preparation and seeding recommendations.
3. If the stand provides less than 40% ground cover, reestablish following original lime, fertilizer, seed preparation and seeding recommendations.

VI. Alternative for Permanent Seeding - Instead of applying the full amounts of lime and commercial fertilizer, composted sludge and amendments may be applied as specified, below:
1. Composted sludge Material for use as a soil conditioner for sites having disturbed areas over 5 acres shall be tested to prescribe amendments and for sites having disturbed areas under 5 acres shall conform to the following requirements:
a. Composted sludge shall be supplied by, or originated from, a person or persons that are permitted (at the time of acquisition of the compost) by the Maryland Department of the Environment under COMAR 26.04.06.
b. Composted sludge shall contain at least 1 percent nitrogen, 15 percent phosphorus, and 0.2 percent potassium and have a pH of 7.0 to 8.0. If compost does not meet these requirements, the appropriate constituents must be added to meet the requirements prior to use.
c. Composted sludge shall be applied at a rate of 1 ton/1,000 square feet.
d. Composted sludge shall be amended with a potassium fertilizer applied at the rate of 4 lb/1,000 square feet, and 1/3 the normal lime application rate.

Table 26 - Temporary Seeding Rates, Depths, and Dates. Columns include Species, Minimum Seeding Rates, Planting Depth, Hardiness Zones, and Seeding Dates.

Table 26 - Temporary Seeding Rates, Depths, and Dates. Columns include Species, Minimum Seeding Rates, Planting Depth, Hardiness Zones, and Seeding Dates.

References: Guide Specifications, Soil Preparation and Seeding, MD-VI, Pub. #1, Cooperative Extension Service, University of Maryland and Virginia Polytechnic Institutes. Revised 1973.

Table 24 - Stabilized Construction Entrance. Columns include Plan View, Profile View, and Construction Specifications.

1. Length - minimum of 60' (40' for alpha level sites).
2. Width - 10' minimum, should be flared at the existing road to provide a turning radius.
3. Barrette fabric (filter cloth) shall be placed over the existing ground prior to placing stone. After stone removal, existing fabric may not require a fully sandy radially resistance to water infiltration.

4. Stone - crushed aggregate 1 1/2" to 3/4" or recycled or recycled concrete aggregate equivalent shall be placed in least 6" deep over the length and width of the entrance.
5. Surface water - all surface water flowing to or diverted toward construction entrance shall be filtered through the stabilized construction entrance.
6. Location - a stabilized construction entrance shall be located at every point where construction traffic enters or leaves a construction site and shall be maintained when the site is not used for the entire length of the stabilized construction entrance.

Table 22 - Silt Fence. Columns include Silt Fence Design Criteria, Slope Steepness, Slope Length, and Silt Fence Length.

1. Fence posts shall be a minimum of 3/4" long driven 16" minimum into the ground. Fence posts shall be spaced at 10' intervals.
2. Silt fence shall be constructed of 1/2" x 1/2" x 1/2" mesh polypropylene fabric.
3. Silt fence shall be installed across the slope at the top of the slope.
4. Silt fence shall be installed across the slope at the top of the slope.

5. Silt fence shall be installed across the slope at the top of the slope.
6. Silt fence shall be installed across the slope at the top of the slope.
7. Silt fence shall be installed across the slope at the top of the slope.

8. Silt fence shall be installed across the slope at the top of the slope.
9. Silt fence shall be installed across the slope at the top of the slope.

10. Silt fence shall be installed across the slope at the top of the slope.

11. Silt fence shall be installed across the slope at the top of the slope.

12. Silt fence shall be installed across the slope at the top of the slope.

13. Silt fence shall be installed across the slope at the top of the slope.

14. Silt fence shall be installed across the slope at the top of the slope.

15. Silt fence shall be installed across the slope at the top of the slope.

16. Silt fence shall be installed across the slope at the top of the slope.

17. Silt fence shall be installed across the slope at the top of the slope.

18. Silt fence shall be installed across the slope at the top of the slope.

19. Silt fence shall be installed across the slope at the top of the slope.

20. Silt fence shall be installed across the slope at the top of the slope.

Table 27 - Geotextile Fabrics. Columns include Class, Apparent Opening Size, Grab Tensile Strength, and Burst Strength.

1. US Std. Sieve CW-02215 ** 0.50 MM MAX. FOR SUPER SILT FENCE.
The properties shall be determined in accordance with the following procedures:
- Apparent opening size MSMT 323
- Grab tensile strength ASTM D 1692; 4 x 8" specimen, 1x2" clamps, 12" min. strain rate in both principal directions of geotextile fabric.
- Burst strength ASTM D 3786

The fabric shall be inert to commonly encountered chemicals and hydrocarbons, and will be rot and mildew resistant. It shall be manufactured from fibers consisting of long chain synthetic polymers, and composed of a minimum of 92% by weight of polypropylene, polyesters, or polyamides. The geotextile fabric shall resist deterioration from ultraviolet exposure.

In addition, Classes A through E shall have a 0.01 cm/sec. minimum permeability when tested in accordance with MSMT 507, and an apparent minimum elongation of 20 percent (20%) when tested in accordance with the grab tensile strength requirements listed above.

Silt Fence
Class F geotextile fabrics for silt fence have a 50 lb./ft. minimum tensile strength and a 20 lb./in. minimum tensile modulus when tested in accordance with MSMT 508. The material shall also have a 0.5 gal/ft./min. flow rate and seventy-five percent (75%) minimum filtering efficiency when tested in accordance with MSMT 322.

Geotextile fabrics used in the construction of silt fence shall resist deterioration from ultraviolet exposure. The fabric shall contain sufficient amounts of ultraviolet ray inhibitors and stabilizers to provide a minimum of 12 months of expected usable construction life at a temperature range of 0 to 120 degrees F.

DETAIL 20A - REMOVABLE PUMPING STATION. Includes diagram of a vertical pipe structure with a pump mechanism and various components like a float valve and a clean out.

1. The outer pipe should be 4" dia. or larger, in size, free of all defects, and shall be installed in a trench 6" wider than the pipe. The pipe should be installed in a trench 6" wider than the pipe.
2. After installing the outer pipe, backfill around outer pipe with 2" aggregate clean gravel.
3. The float valve (cover plate) should be constructed by perforating a 4" diameter pipe with 1/4" holes. The perforations shall be spaced 1/2" apart. The float valve shall be installed in a trench 6" wider than the pipe.
4. The outer pipe should extend 12" to 18" above the anticipated water surface elevation of the area being protected.

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE. MARYLAND DEPARTMENT OF ENVIRONMENT AND WATER MANAGEMENT ADMINISTRATION.

DETAIL 24 - STABILIZED CONSTRUCTION ENTRANCE. Includes plan view and profile view of a stabilized entrance with a barrette fabric and stone.

1. Length - minimum of 60' (40' for alpha level sites).
2. Width - 10' minimum, should be flared at the existing road to provide a turning radius.
3. Barrette fabric (filter cloth) shall be placed over the existing ground prior to placing stone. After stone removal, existing fabric may not require a fully sandy radially resistance to water infiltration.

4. Stone - crushed aggregate 1 1/2" to 3/4" or recycled or recycled concrete aggregate equivalent shall be placed in least 6" deep over the length and width of the entrance.
5. Surface water - all surface water flowing to or diverted toward construction entrance shall be filtered through the stabilized construction entrance.

6. Location - a stabilized construction entrance shall be located at every point where construction traffic enters or leaves a construction site and shall be maintained when the site is not used for the entire length of the stabilized construction entrance.

7. Silt fence shall be installed across the slope at the top of the slope.

8. Silt fence shall be installed across the slope at the top of the slope.

9. Silt fence shall be installed across the slope at the top of the slope.

10. Silt fence shall be installed across the slope at the top of the slope.

11. Silt fence shall be installed across the slope at the top of the slope.

Sediment Control Notes
1. A MINIMUM OF 48 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY DEPARTMENT OF ENVIRONMENT AND PERMITS, SEDIMENT CONTROL DIVISION PRIOR TO THE START OF ANY CONSTRUCTION (312-1665).
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 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL AND REVISIONS THERE TO.

3. FOLLOWING INITIAL SOIL DISTURBANCE OR RE-DISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN:
A) 7 CALENDAR DAYS FOR ALL PERIMETER SEDIMENT CONTROL STRUCTURES, PERIMETER SLOPES AND ALL SLOPES GREATER THAN 2:1.
B) 14 DAYS FOR ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.

4. ALL SEDIMENT TRAP/SLOPES SHALL BE FENCED AND WARNING SIGNS POSTED AROUND THEIR PERIMETER IN ACCORDANCE WITH VOL. 1, CHAPTER 7, OF THE HOWARD COUNTY DESIGN MANUAL, STORM DRAINAGE.
5. ALL DISTURBED AREAS MUST BE STABILIZED WITHIN THE TIME PERIOD SPECIFIED ABOVE IN ACCORDANCE WITH THE 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR PERMANENT SEEDING, SOIL TEMPORARY SEEDING AND MULCHING (SEC-G). TEMPORARY STABILIZATION WITH MULCH ALONE SHALL ONLY BE DONE WHEN RECOMMENDED SEEDING DATES DO NOT ALLOW FOR PROPER GERMINATION AND ESTABLISHMENT OF GRASSES.

6. 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.
7. SITE ANALYSIS:
TOTAL AREA OF SITE: 27.27 ACRES
AREA DISTURBED: 2.60 ACRES
AREA TO BE ROOFED OR PAVED: 2.43 ACRES - 105,895 S.F.
AREA TO BE VEGETATIVELY STABILIZED: 0.23 ACRES - 16,117 S.F.
TOTAL CUT: 9195 C.Y., TOTAL FILL: 300 C.Y.
OFFSITE WASH/BORROW AREA LOCATION: EXCESS CUT SHALL BE TAKEN TO A SITE WITH AN APPROVED SEDIMENT CONTROL PLAN.

8. ANY SEDIMENT CONTROL PRACTICE WHICH IS DISTURBED BY GRADING ACTIVITY FOR PLACEMENT OF UTILITIES MUST BE REPAIRED ON THE SAME DAY OF DISTURBANCE.
9. ADDITIONAL SEDIMENT CONTROLS MUST BE PROVIDED, IF DEEMED NECESSARY BY THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
10. ON ALL SITES WITH DISTURBED AREAS IN EXCESS OF 2 ACRES, APPROVAL OF THE INSPECTION AGENCY SHALL BE REQUESTED UPON COMPLETION OF INSTALLATION OF PERIMETER EROSION AND SEDIMENT CONTROLS, BUT BEFORE PROCEEDING WITH ANY OTHER EARTH DISTURBANCE OR GRADING. OTHER BUILDING OR GRADING INSPECTION APPROVALS MAY NOT BE AUTHORIZED UNTIL THIS INITIAL APPROVAL BY THE INSPECTION AGENCY IS MADE.

11. TRENCHES FOR THE CONSTRUCTION OF UTILITIES IS LIMITED TO THREE FEET LENGTHS OR THAT WHICH SHALL BE BACKFILLED AND STABILIZED WITHIN ONE WORKING DAY, WHICHEVER IS SHORTER.

These plans for S.W.M. construction, soil erosion and sediment control meet the requirements of Howard Soil Conservation District.

APPROVED: HOWARD SOIL CONSERVATION DISTRICT. Includes signature and date.

Reviewed for the Howard Conservation District and meets technical requirements. Includes signature and date.

APPROVED: Howard County Department of Planning and Zoning. Includes signature and date.

CHIEF, DEVELOPMENT ENGINEERING DIVISION. Includes signature and date.

CHIEF, DIVISION OF LAND DEVELOPMENT. Includes signature and date.

DIRECTOR. Includes signature and date.

ADDRESS CHART. Includes parcel number and street address.

SUBDIVISION NAME, SECTION NAME, PARCEL #. Includes route and block information.

DESIGNED BY: H.F.P., DRAWN BY: P.L.T., CHECKED BY: N.B. Includes project details.

Sediment Control Notes. Includes project name and location.

Election District #1, Parcel # 26 FOLIO 4B 24 FOLIO 14. Includes project details.

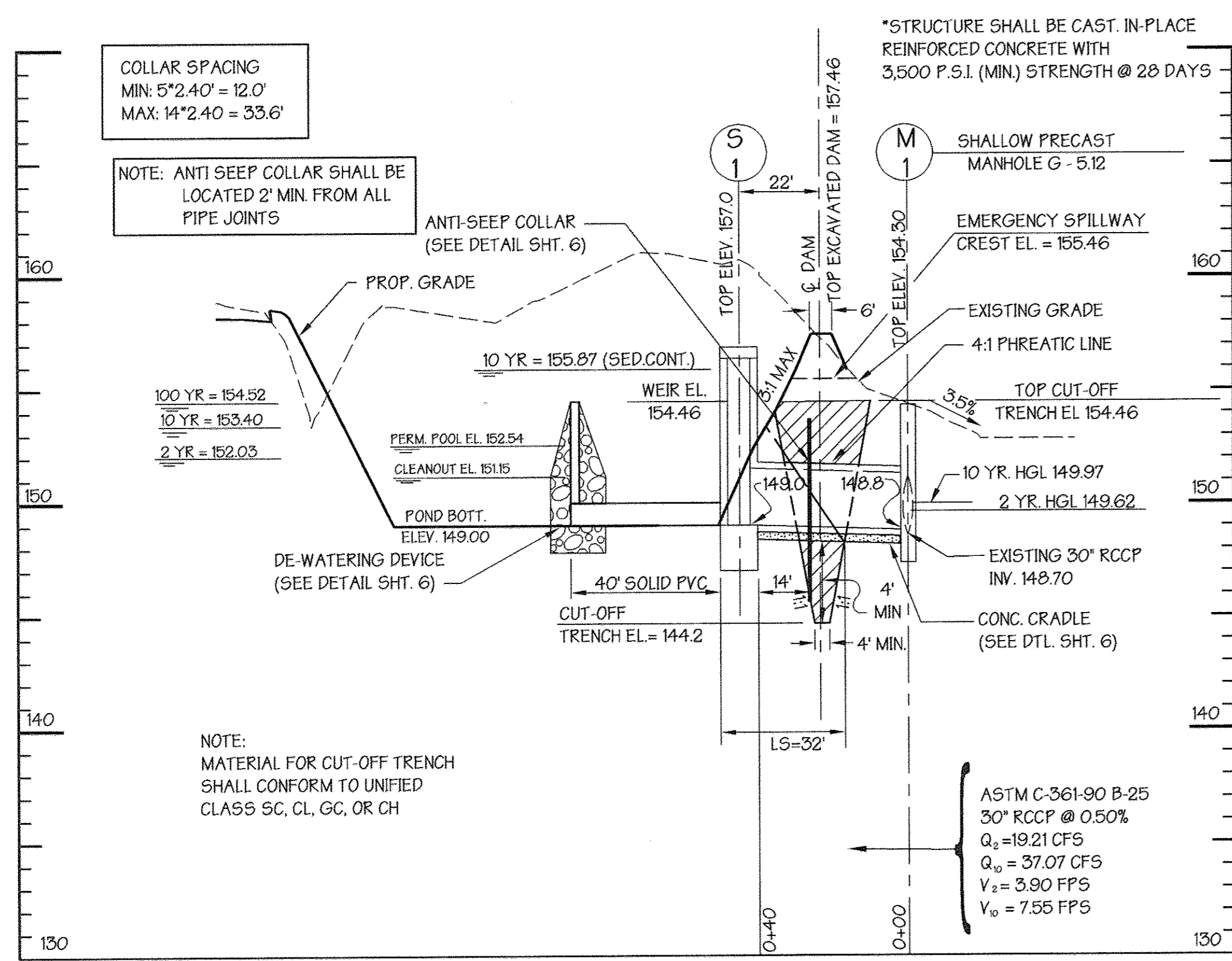
GEORGE WILLIAM STEPHENS, JR. AND ASSOCIATES, INC. CIVIL ENGINEERS & LAND SURVEYORS. 658 KENILWORTH DRIVE, SUITE 100, TOWSON, MARYLAND 21284. Includes logo and contact information.

ENGINEER CERTIFICATION: 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 Soil Conservation District. Includes signature and date.

OWNER/DEVELOPER: MIE PROPERTIES CO. 5720 Executive Drive, Baltimore, Maryland 21228-1789. Includes logo and contact information.

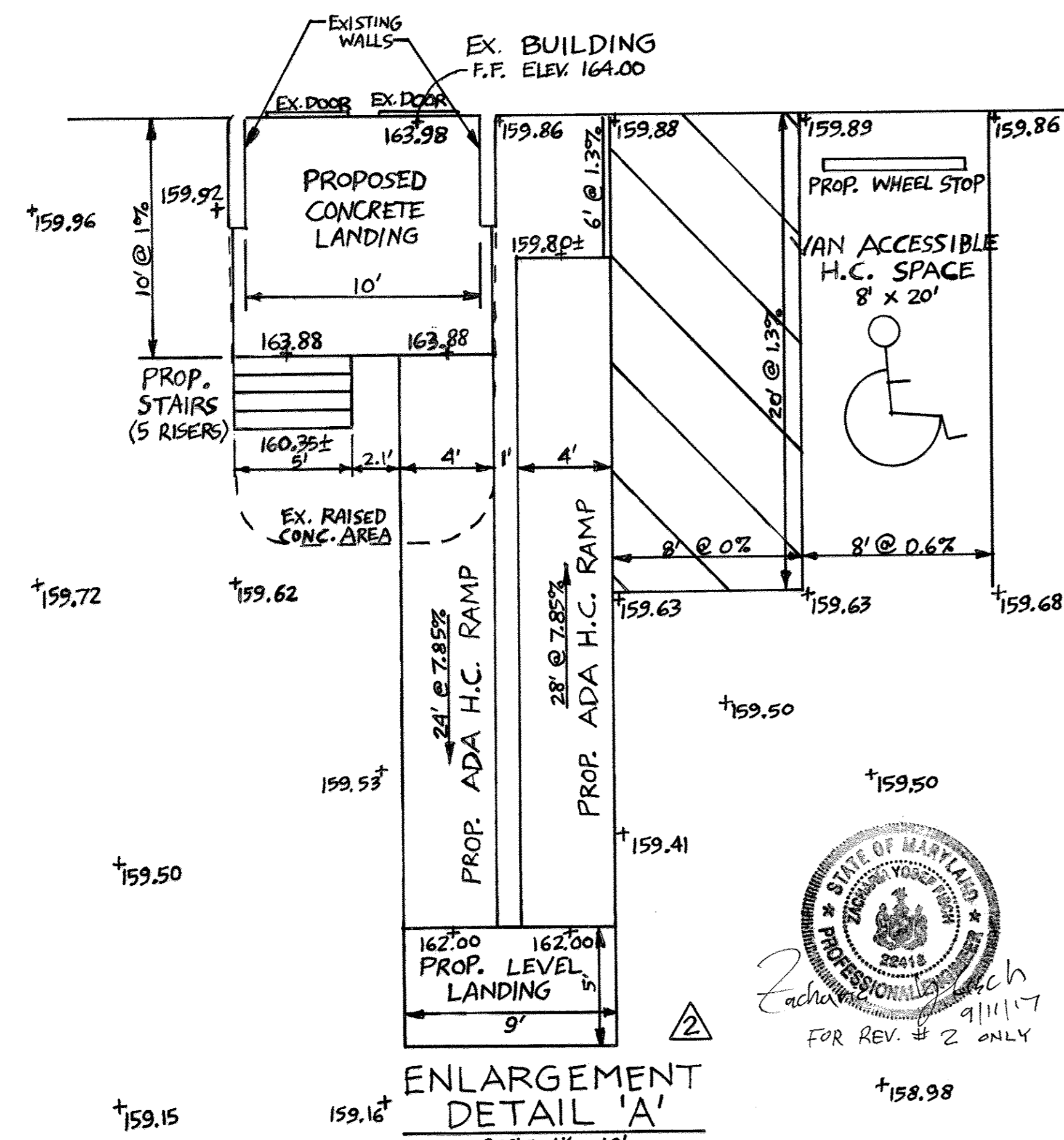
DEVELOPER CERTIFICATION: I verify that all development and construction will be done according to this plan, and that any responsible personnel involved in the construction project will have a Certification of Attendance at a Department of the Environment Approved Training Program for the Control of Sediment and Erosion before beginning the project. Includes signature and date.

SDP-99-35. Includes project details and date.

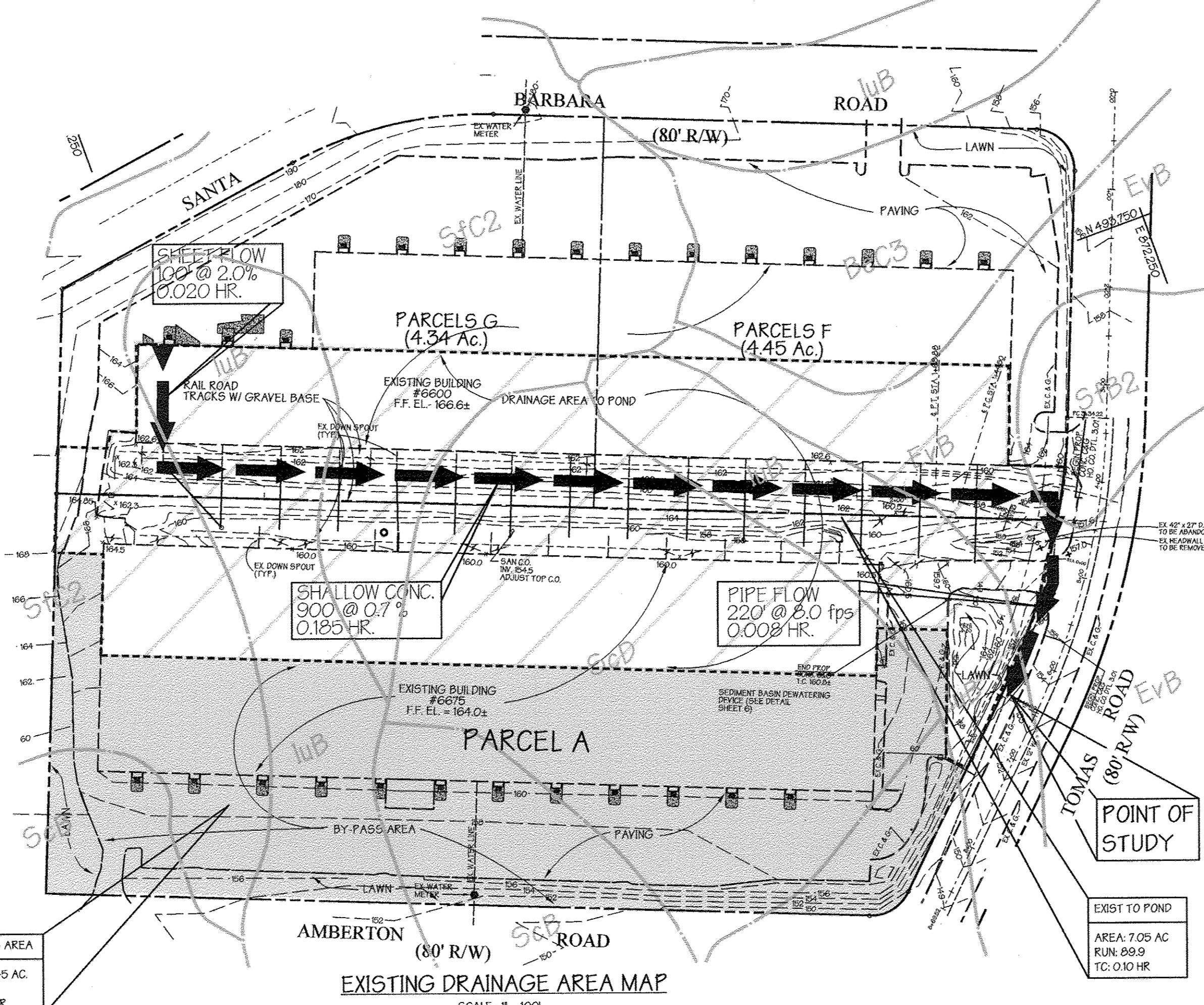


PROFILE - PRINCIPAL SPILLWAY - SEDIMENT CONTROL

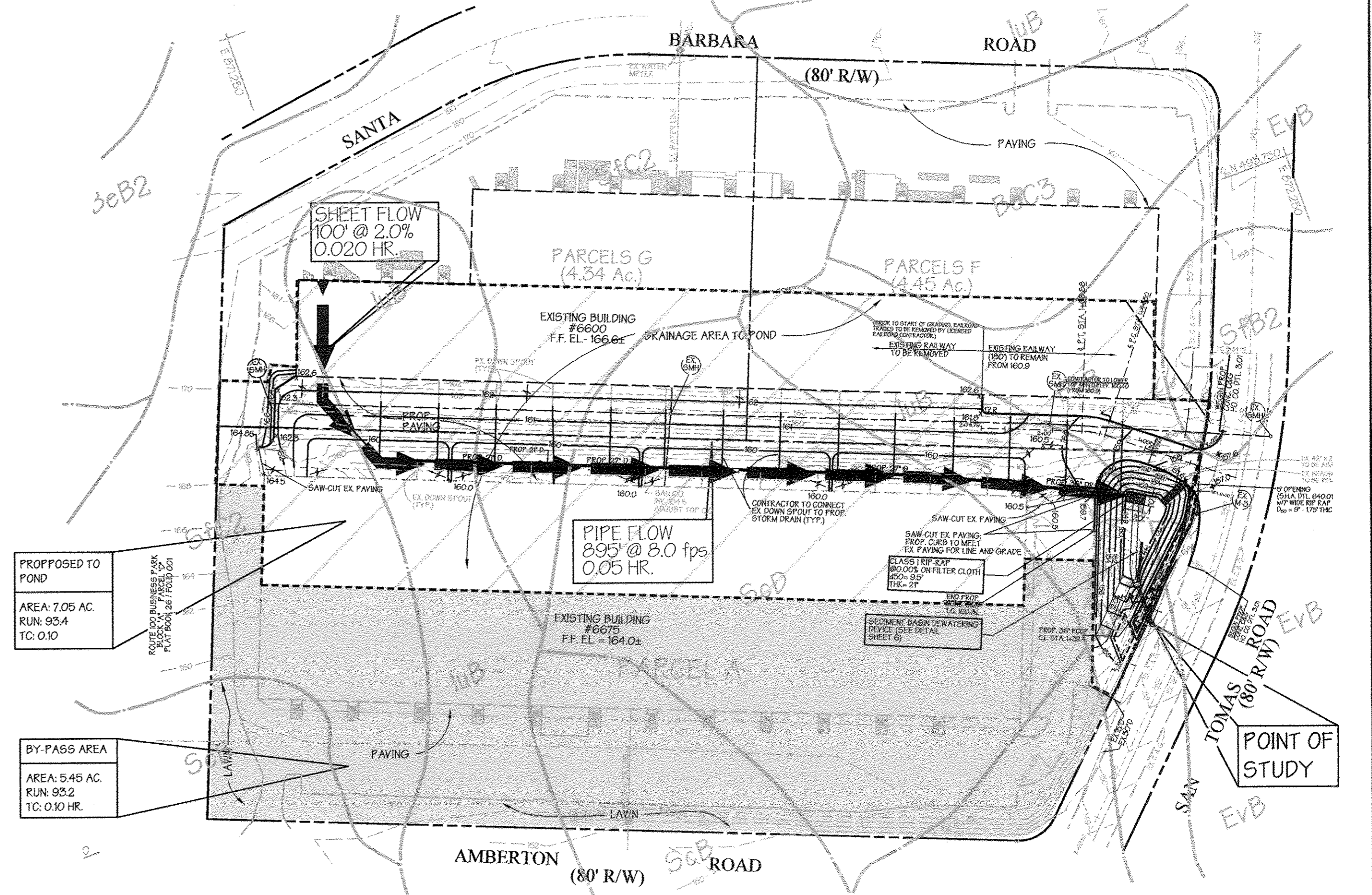
SCALE: VERT: 1"=5'
HORIZ: 1"=30'



ENLARGEMENT DETAIL 'A'



EXISTING DRAINAGE AREA MAP



PROPOSED DRAINAGE AREA MAP

Legend

Ex. Contours ----- 394

Prop. Contours ----- 394

Ex. Curb & Gutter -----

Prop. Curb & Gutter -----

Ex. Sanitary -----

Ex. Storm Drain -----

Ex. Water -----

EX. R/W -----

DRAINAGE AREA -----

SOIL TYPES	HYDROIC SOIL GROUPS
C	IuB
C	ScB
C	ScD
* B	SfC2, SfB2
* A	EvC
C	BcCE

* DUE TO EXISTING DEVELOPMENT "A" & "B" SOILS HAVE BEEN DOWN GRADED TO "B" & "C" RESPECTIVELY.

MIE PROPERTIES CO.

5720 Executive Drive
Baltimore, Maryland 21228-1789
(410) 788-0100

These plans for small pond construction, soil erosion and sediment control meet the requirements of Howard Soil Conservation District.

APPROVED: HOWARD SOIL CONSERVATION DISTRICT *[Signature]* 1/14/99

PLAN NUMBER _____ DATE 1/14/99

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: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING *[Signature]* 1/13/99

CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE 1/13/99

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING *[Signature]* 1/14/99

CHIEF, DIVISION OF LAND DEVELOPMENT DATE 1/14/99

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING *[Signature]* 1/22/99

DIRECTOR DATE 1/22/99

ADDRESS CHART

PARCEL NO.	STREET ADDRESS
S-20	6600 SANTA BARBARA ROAD
A	6675 SANTA BARBARA ROAD

SUBDIVISION NAME: ROUTE 100 BUSINESS PARK SECTION NAME: _____ PARCEL # A, F & G

PLAT: LIBER 49 24 FOLIO 14 BLOCK # A ZONE M-2 ZONE MAP 37 ELECT. DIST. 1 CENSUS TRACT 6012

WATER CODE _____ SEWER CODE _____

GWS

GEORGE WILLIAM STEPHENS, JR. AND ASSOCIATES, INC.

CIVIL ENGINEERS & LAND SURVEYORS

658 KENILWORTH DRIVE, SUITE 100
TOWSON, MARYLAND 21204
(410) 825-8120

ENGINEER CERTIFICATION:

"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 and that it was prepared in accordance with the requirements of the Howard Soil Conservation District. I have notified the developer that he/she must engage a registered professional engineer to supervise pond construction and provide the Howard Soil Conservation District with an "as-built" plan of the pond within 30 days of completion."

Engineer *[Signature]* Date 10/13/98
Name: Nicholas J. Brader, III PE # 18558

DEVELOPER CERTIFICATION:

"I/We certify that all development and construction will be done according to this plan, and that any responsible personnel involved in the construction project will have a Certificate of Attendance at a Department of Environment Approved Training Program for the Control of Sediment and Erosion before beginning the project. I shall engage a registered professional engineer to supervise pond construction and provide the Howard Soil Conservation District with an "as-built" plan of the pond within 30 days of completion. I also authorize periodic on-site inspection by the Howard Soil Conservation District."

Developer *[Signature]* Date 10/13/98
Name: Jeffrey M. Gish, V.P.

CONSULTANT'S HAZARD CLASS CERTIFICATION:

I certify that this pond meets all requirements for hazard class A, B or C. (Requirements as stated in the Soil Conservation Service - Maryland Standards and Specifications for Pond, Code 378, November 1992). All necessary investigations and computations have been performed to verify this finding. A copy of said information has been supplied to Howard County Soil Conservation Districts.

Signature *[Signature]* Date 10/13/98
Name: Nicholas J. Brader, III PE # 18558

Sediment Control Drainage Area Map & Profiles

ROUTE ONE HUNDRED BUSINESS PARK
BLOCK "A"

Previous File Nos. SDP 72-27, SDP 74-80, F #81

Election District #1
Parcels A, F & G
Scale: 1"=50'

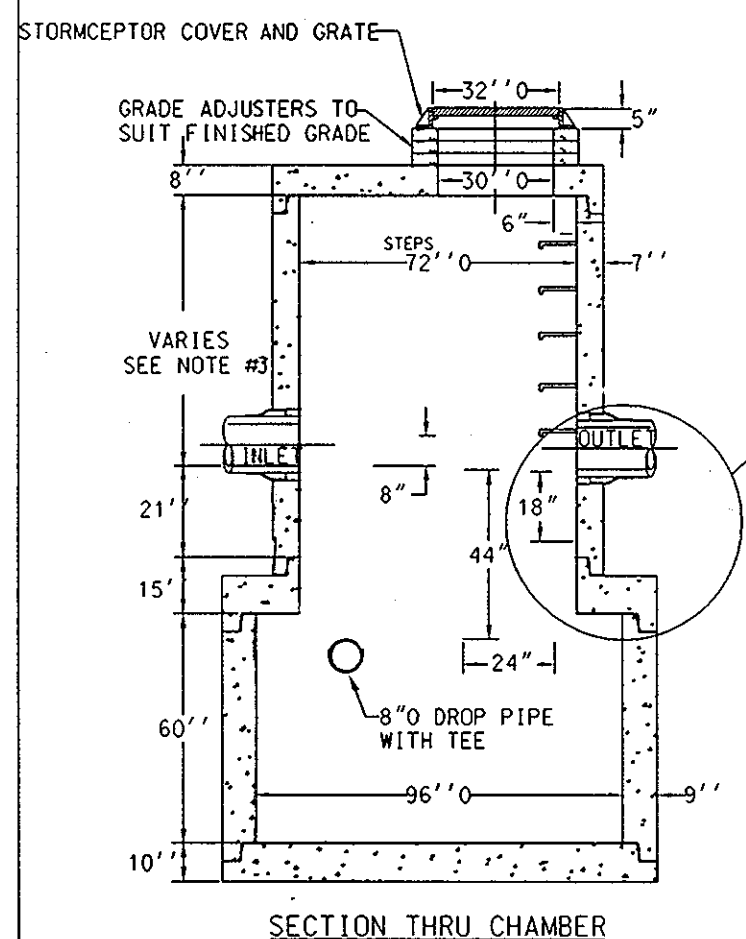
Howard County, Maryland
October 13, 1998
Sheet 8 of 10

SDP -99-35 P.N. 8885

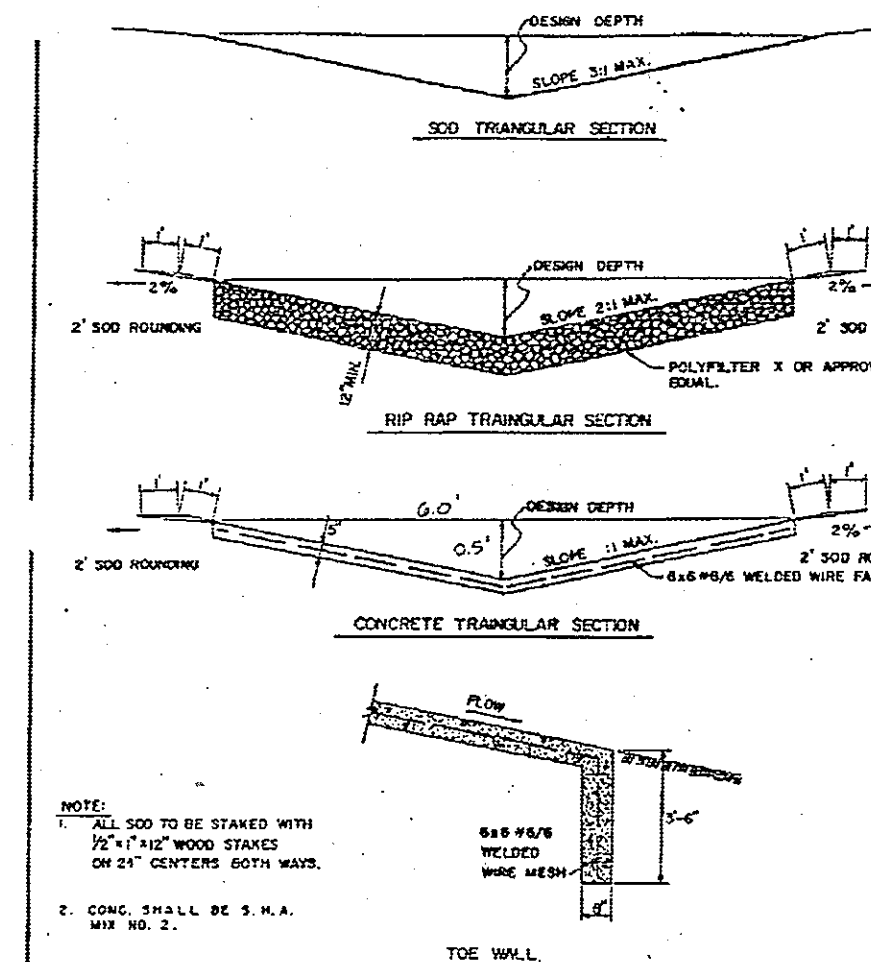
OPERATION AND MAINTENANCE SCHEDULE FOR STORMCEPTOR WATER QUALITY DEVICE

- The Stormceptor water quality structure shall be periodically inspected and cleaned to maintain operation and function. The owner shall inspect the Stormceptor unit yearly as a minimum, utilizing the Stormceptor Inspection Monitoring Form. Inspections shall be done by using a clear Plexiglass tube ("sludge judge") to extract a water column sample. When the sediment depths exceed the level specified in Table G of the Stormceptor Technical Manual, the unit must be cleaned.
- The Stormceptor water quality structure shall be checked and cleaned immediately after petroleum spills. The owner shall contract the appropriate regulatory agencies.
- The maintenance of the Stormceptor unit shall be done using a vacuum truck which will remove the water, sediment, debris, floating hydrocarbons and other materials in the unit. Proper cleaning and disposal of the removed materials and liquid must be followed by the owner.
- The inlet and outlet pipes shall be checked for any obstructions at least once every six months. If obstructions are found the owner shall have them removed. Structural parts of the Stormceptor unit shall be repaired as needed.
- The owner shall retain and make the Stormceptor Inspection/Monitoring Forms available to the Howard County Officials upon their request.

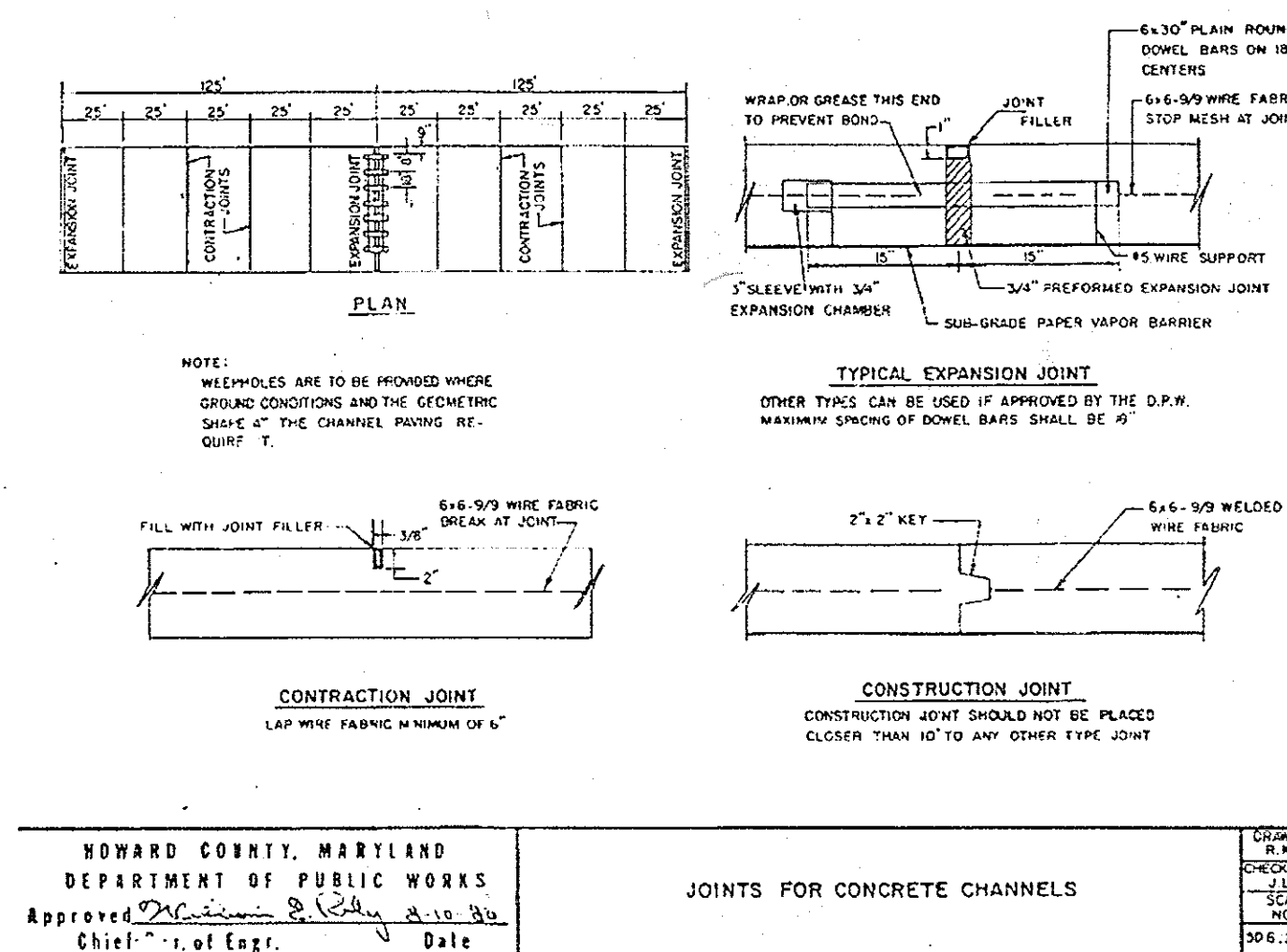
STC 2400 Precast Concrete Stormceptor (2400 US Gallon Capacity) (Disc Design)



- NOTE 1: FLEXIBLE CONNECTIONS ARE RECOMMENDED AT THE INLET AND OUTLET WHERE APPLICABLE.
 2. COVER TO BE POSITIONED OVER OUTLET AND INLET PIPE.
 3. THIS IS A GENERAL ARRANGEMENT DRAWING; CONSULT LOCAL REPRESENTATIVE FOR SPECIAL CONDITIONS.
 4. INLET DROP PIPE WILL BE CENTER 8" TO 12" WITH A 3" O.D. BRASS PLATE.
 5. ALL CONCRETE JOINTS HAVE RUBBER GASKETS THAT CONFORM TO ASTM C 443.
 6. U.S. PATENT NO. 4,985,148
- DESIGN SPECIFICATIONS
 1. ASTM C 478
 2. BASE WEIGHT = 12,825 LBS
 3. 20'-0" HGT
 4. 80' WIDE W/WT



HOWARD COUNTY, MARYLAND
 DEPARTMENT OF PUBLIC WORKS
 Approved: [Signature] Chief - Bureau of Engineering



HOWARD COUNTY, MARYLAND
 DEPARTMENT OF PUBLIC WORKS
 Approved: [Signature] Chief - Bureau of Engineering

Concrete Stormceptor® Order Request Form

Contractor Information
 Name _____
 Address _____
 City _____
 State _____
 Zip Code _____
 Contract _____
 Phone _____
 Fax _____

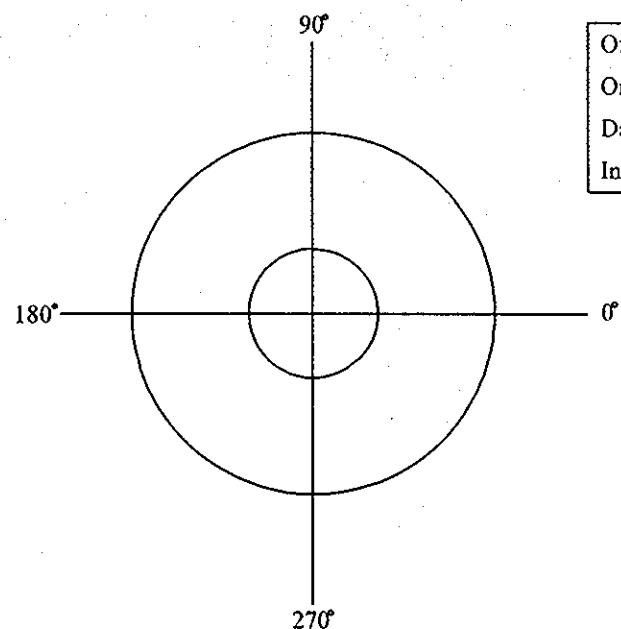
Owner Information
 Name: MS&E PROPERTIES
5700 SHILOH BLVD. SUITE 100, WASHINGTON, DC 20016
 Phone: 410-788-0100

Stormceptor® Model
 900 3600
 1200 4800
 1800 6000
 2400 7200

Insert Size
 22"
 32"
 44"
 Custom

Manhole Number
 Top Elevation (ft) SC-1
 Inlet Pipe Invert (ft) 152.2
 Outlet Pipe Invert (ft) 152.21
 Pipe Type: _____
 Pipe Inside Diameter (in) [ID] 24"
 Pipe Outside Diameter (in) [OD] _____

Project Name _____
 Approximate time frame until required delivery (weeks) _____
 Delivery Address: Street _____
 City _____ State _____ Zip Code _____
 Designer Company _____
 Designer Contract _____ Phone _____ Fax _____

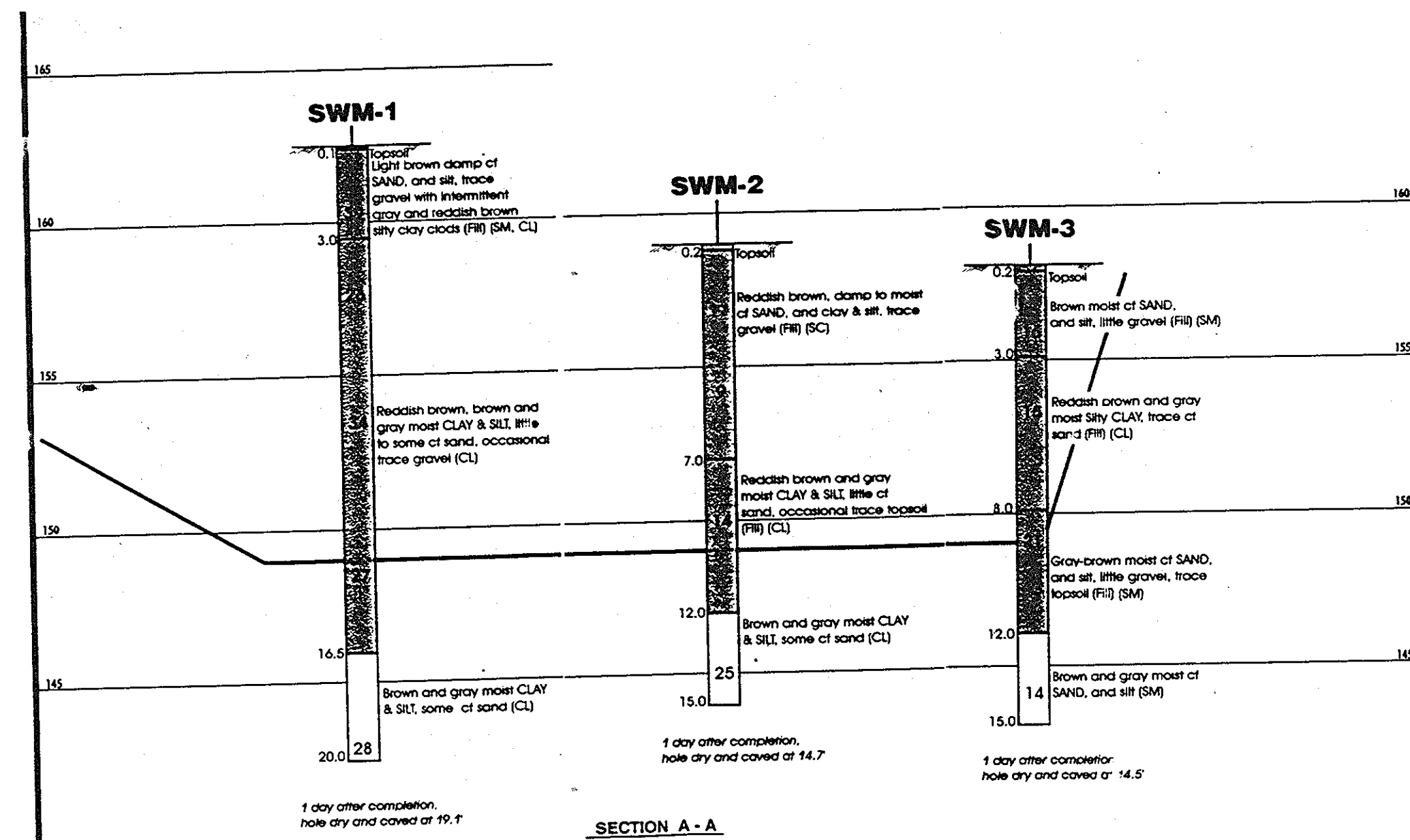
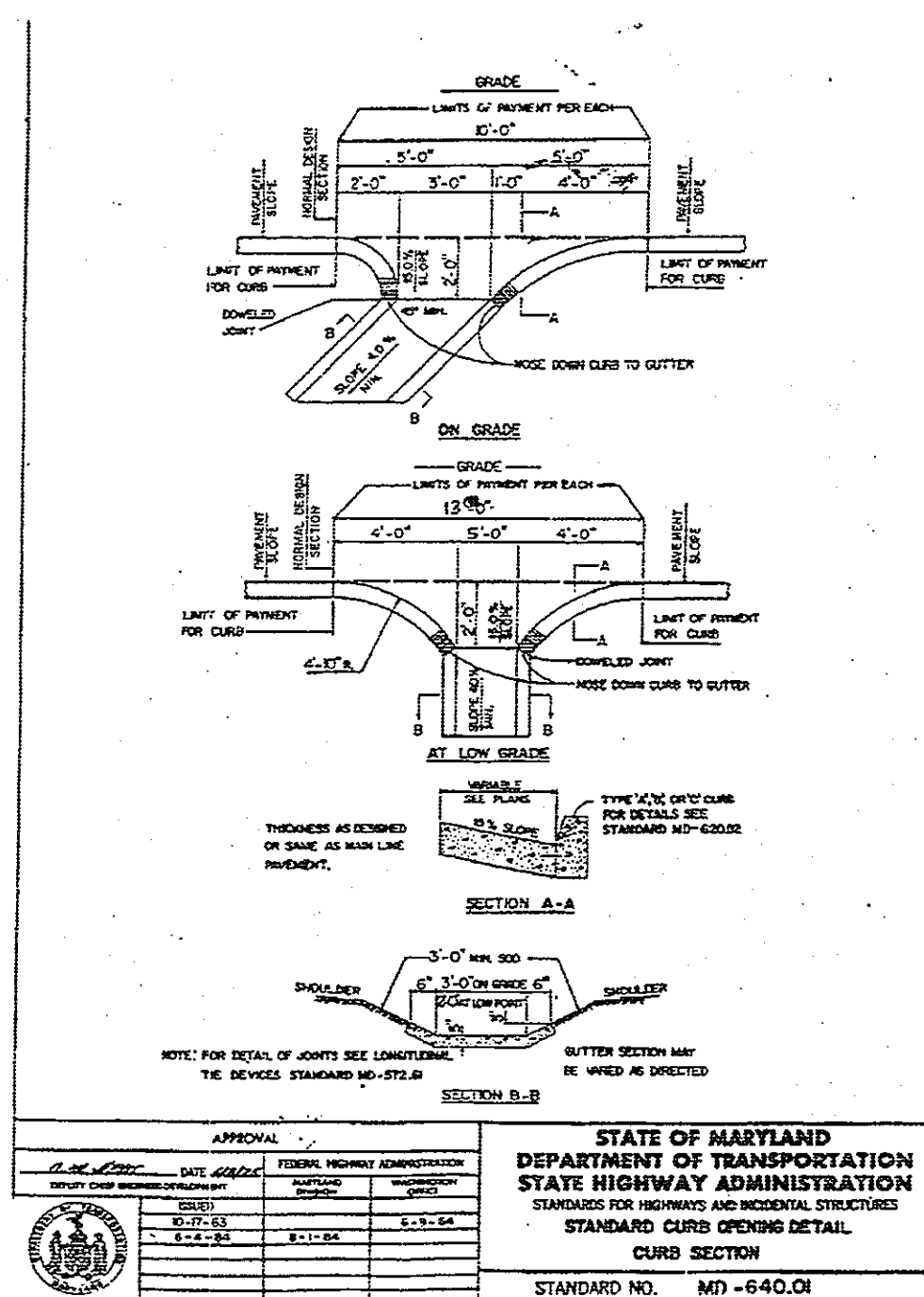


Please draw orientation of inlet and outlet pipes on diagram along with pipe diameter (in) and invert elevation (ft). Clearly mark inlet pipes with an 'I' and outlet pipes with an 'O' and provide the inlet/outlet pipe angle in degrees.

Please fax this order to stormceptor at (301) 762-4190
 For Technical Assistance Please Call Stormceptor Corporation at (301) 762 - 8361 or toll free at 1 (800) 762 - 4703

ALL LIFTING APPARATUS TO BE PROVIDED BY THE INSTALLATION CONTRACTOR

* TO BE INCLUDED ON SWM PLAN BY DESIGNER



These plans for S.W.M. construction, soil erosion and sediment control meet the requirements of Howard Soil Conservation District.

APPROVED: HOWARD SOIL CONSERVATION DISTRICT
 PLAN NUMBER _____ DATE 1/11/99

Reviewed for the Howard Conservation District and meets technical requirements
 NATURAL RESOURCES CONSERVATION SERVICE DATE 1/11/99

APPROVED: Howard County Department of Planning and Zoning
 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE 1/12/99
 CHIEF, DIVISION OF LAND DEVELOPMENT DATE 1/21/99
 DIRECTOR DATE 1/22/99

ADDRESS CHART
 PARCEL NO. F & G 6600 SANTA BARBARA ROAD
 A 6675 AMBERTON ROAD

SUBDIVISION NAME: ROUTE 100 BUSINESS PARK
 SECTION NAME: A, F & G
 PARCEL #: 6012

GEORGE WILLIAM STEPHENS, JR. AND ASSOCIATES, INC.
 CIVIL ENGINEERS & LAND SURVEYORS
 658 KENILWORTH DRIVE, SUITE 100
 TOWSON, MARYLAND 21204
 (410) 825-8120

ENGINEER CERTIFICATION:
 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 Soil Conservation District.
 Engr. [Signature] Date 10/13/98
 Name: Nicholas J. Brader, III PE# 10558

OWNER/DEVELOPER
MIE PROPERTIES CO.
 5720 Executive Drive
 Baltimore, Maryland 21228-1789
 (410) 788-0100

DEVELOPER CERTIFICATION:
 I/We certify that all development and construction will be done according to this plan, and that any responsible personnel involved in the construction project will have a Certification of Attendance at a Department of the Environment 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.
 Developer: [Signature] Date 10/13/98
 Name: Jeffrey A. Cish

DESIGNED BY: H.P.P.
 DRAWN BY: P.L.T.
 CHECKED BY: N.B.
 REVISIONS

Stormwater Management Details
ROUTE ONE HUNDRED BUSINESS PARK
 BLOCK "A"
 Previous File Nos. SDP 72-27, SDP 74-80, F #81
 Election District #1
 Parcels A, F & G
 Scale: As Shown

Howard County, Maryland
 October 13, 1998
 Sheet 9 of 10

Site Analysis Data Chart

TOTAL AREA OF SITE: 770,417 SQ. FT. OR 17.57 AC.
 EXISTING ZONING: M-2
 PROPERTY REFERENCE: LIBER 693, FOLIO 667 LIBER 610 FOLIO 14
 EXISTING USE: WAREHOUSE
 PROPOSED USE: WAREHOUSE
 AREA TO BE DISTURBED: 121,960 S.F. (2.8 AC.)
 AREA TO BE VEGETATIVELY STABILIZED: 16,117 S.F. (0.37 AC.)

Cost Estimate:

TREES PROVIDED	NEW	PRICE	TOTAL
SHADE TREES	11	\$300.00 =	\$3,300.00
EVERGREEN TREES	12	\$150.00 =	\$1,800.00
ORNAMENTAL TREES	3	\$150.00 =	\$450.00
TOTAL SHADE TREES PROVIDED =			\$5,550.00

Legend

Ex. 2' Contours	394
Prop. 2' Contours	394
Prop. 10' Contours	390
Ex. Curb & Gutter	
Prop. Curb & Gutter	
Ex. Storm Drain	
Prop. Storm Drain	
Ex. Sanitary	
Prop. Sanitary	
Prop. Storm Drain	
Prop. Water	
Truck Paving	

Schedule D Stormwater Management Area Landscaping

Linear Feet of Perimeter	540' TYPE B
Number of Trees Required	10.8
Shade Trees 150'	13.5
Evergreen Trees 140'	
Credit for Existing Vegetation (No, Yes and %)	NO
Credit for Other Landscaping (No, Yes and %)	NO
Number of Trees Provided	11
Shade Trees	12
Evergreen Trees	3
Other Trees (2:1 substitution)	

PLANTING NOTES
 PLANT LOCATIONS SHALL BE FIELD ADJUSTED TO AVOID UTILITIES. CONTRACTOR IS RESPONSIBLE FOR LOCATING UTILITIES PRIOR TO START OF WORK. ALL TREES AND SHRUBS SHALL BE MULCHED TO A MINIMUM OF 18" BEYOND THE EDGE OF THE 16" 4" FOOT BALL. SHRUBS MASSINGS SHALL BE PLANTED IN CONTINUOUS RUNS ON BEES. ALL WIRE, PLASTIC AND WIRE TIES SHALL BE REMOVED FROM TOP OF THE ROOT BALL. ALL TREES PLANTED WITHIN THE EIGHT LINE EASEMENT SHALL BE LABELED UP A MINIMUM HEIGHT OF 7 FEET FROM GROUND LEVEL.

PLANT STANDARDS
 ALL NURSERY STOCK SHALL BE TOP QUALITY AND IN ACCORDANCE WITH THE AMERICAN ASSOCIATION OF NURSERYMEN, INC. "AMERICAN STANDARDS FOR NURSERY STOCK," LATEST EDITION. INTERIOR NURSERY STOCK WILL BE SUBJECT TO REJECTION BY THE LANDSCAPE ARCHITECT. BARE ROOT SHALL NOT BE ALLOWED FOR ANY TREE DEEMED AS MAJOR DECIDUOUS, MAJOR DECIDUOUS OR EVERGREEN.

CHANGES MAY IMPACT REQUIRED CERTIFICATION
 PLANT TYPES (DECIDUOUS TREES, EVERGREEN, ETC.), QUANTITIES, SPACING, LOCATION, AND SPECIES SHOWN ON THE APPROVED LANDSCAPE PLAN ARE BASED ON REQUIREMENTS STATED IN THE LATEST HOWARD COUNTY LANDSCAPE MANUAL. ANY CHANGE IN THESE ITEMS MAY AFFECT THE REQUIRED APPROVAL AND CERTIFICATION OF THE INSTALLED PLANTING. OWNER IS REQUIRED TO ARRANGE AND PAY FOR CERTIFICATION BY LANDSCAPE ARCHITECT.

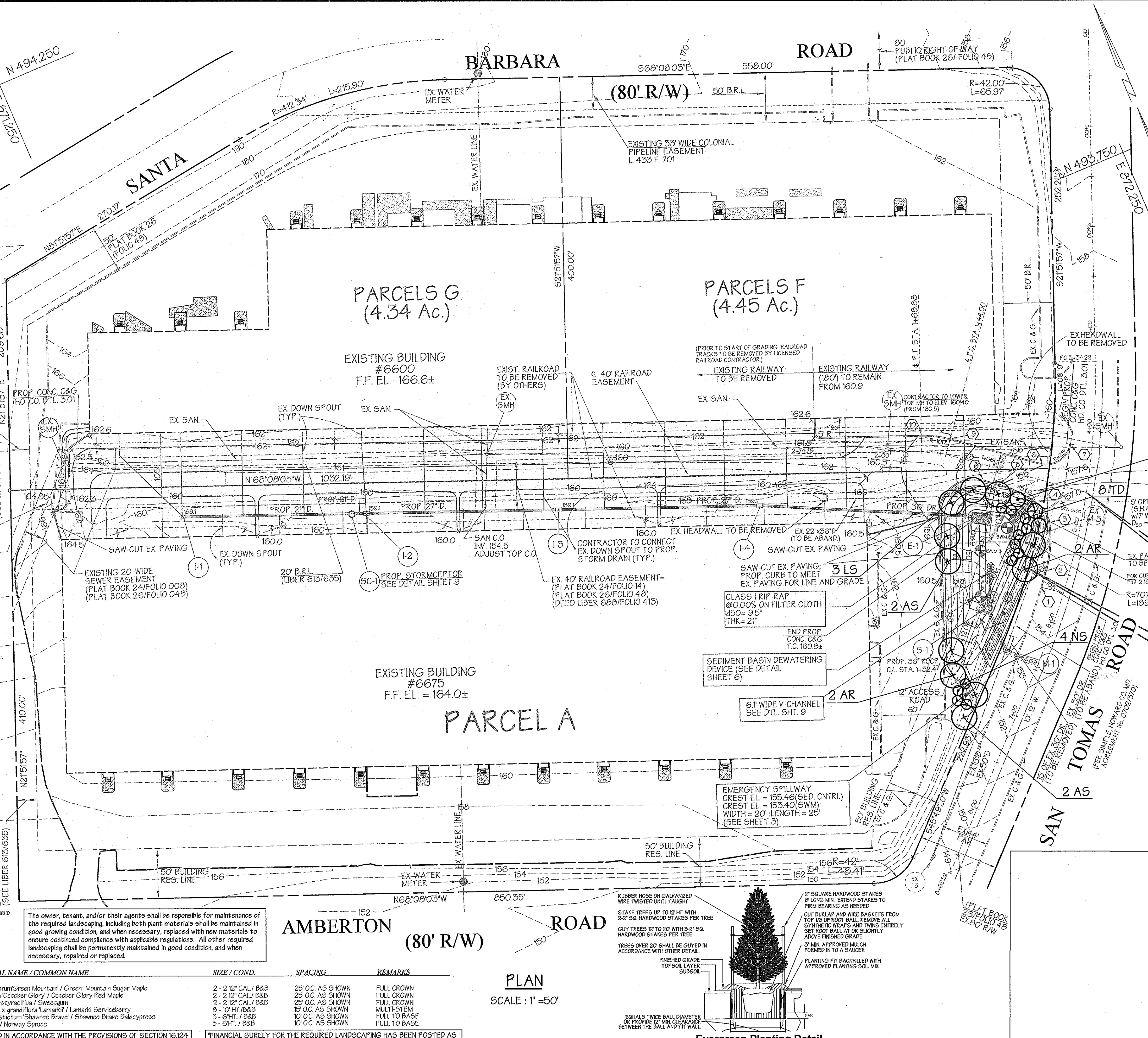
LANDSCAPE SPECIFICATIONS
 LANDSCAPE SPECIFICATION SHALL CONFORM TO LCA LANDSCAPE SPECIFICATION GUIDELINES FOR THE METRO WASHINGTON METROPOLITAN AREA, INCLUDING PLANTING PROCEDURES AND SOIL PREPARATION FOR SHRUBS AND PERENNIAL BEDS. A ONE-YEAR WARRANTY PERIOD SHALL BE REQUIRED. MAINTENANCE REQUIRED TO MAINTAIN THE ONE-YEAR WARRANTY SHALL BE PERFORMED AS PART OF THIS CONTRACT.

SPECIAL PROVISIONS TO LCA STANDARD SPECIFICATIONS
 CONTRACTOR IS ENCOURAGED TO PERFORM SOIL TESTING. TEST RESULTS SHALL BE SUBMITTED TO 30 DAYS BEFORE PLANTING. FAILURE TO FOLLOW THESE SPECIFICATIONS WILL VOID GUARANTEE PROVISIONS.

CONTRACTOR SHALL REVIEW AND TEST SUBSOIL DRAINAGE CHARACTERISTICS 30 DAYS PRIOR TO PLANTING AND NOTIFY OWNER UNACCEPTABLE CONDITIONS.

NO EXCEPTIONS TO THE GUARANTEE PROVISIONS ARE ALLOWED UNLESS AGREED TO IN WRITING PRIOR TO PLANTING.

THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH SECTION 16.124 OF THE HOWARD COUNTY CODE AND THE LANDSCAPE MANUAL. FINANCIAL SURETY FOR THE REQUIRED LANDSCAPE TREES IN THE AMOUNT OF \$20,000.00 IS PART OF THE DEVELOPER'S AGREEMENT.



The owner, tenant, and/or their agents shall be responsible for maintenance of the required landscaping, including both plant materials shall be maintained in good growing condition, and when necessary, replaced with new materials to ensure continued compliance with applicable regulations. All other required landscaping shall be permanently maintained in good condition, and when necessary, repaired or replaced.

PLANT SCHEDULE

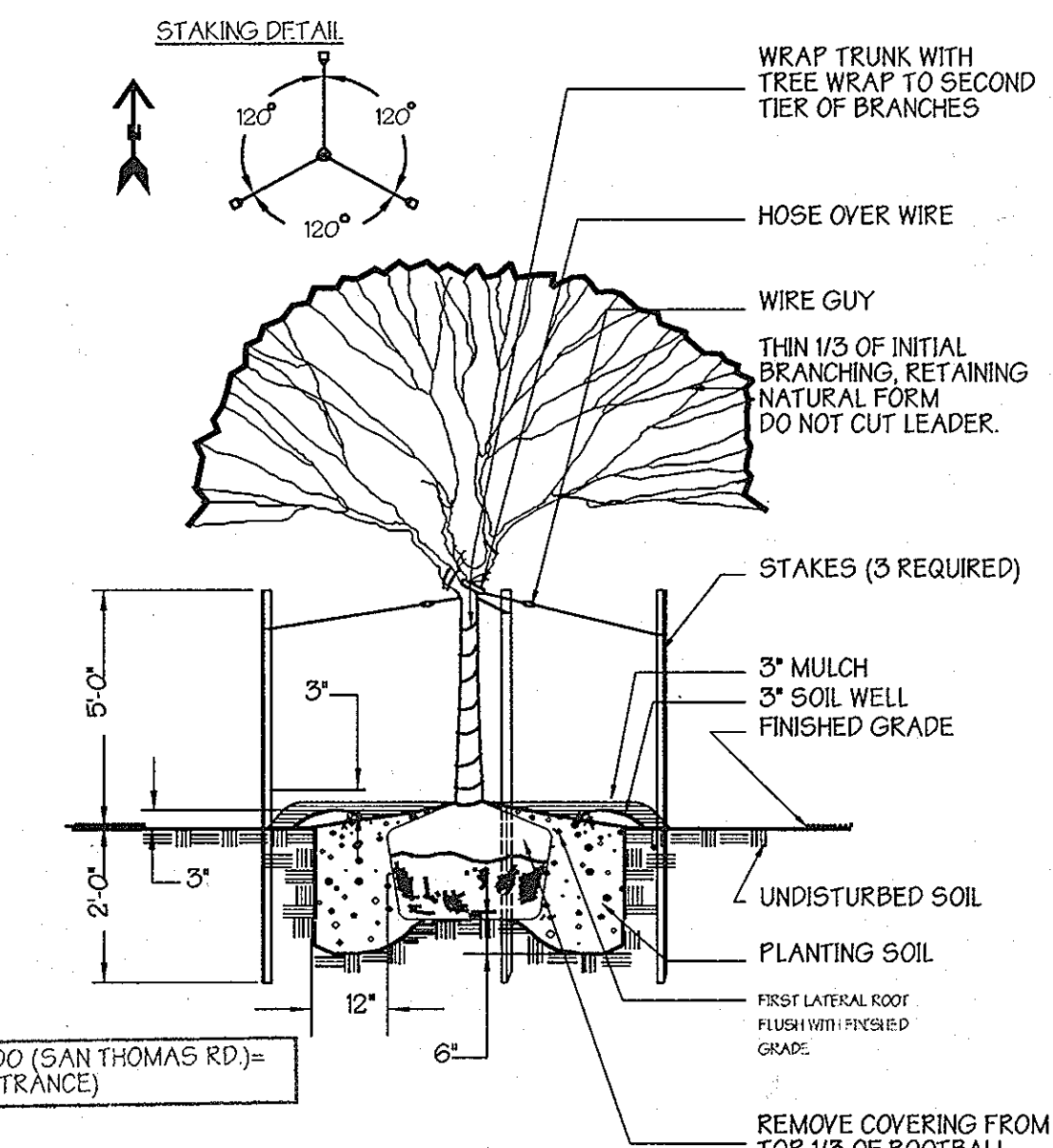
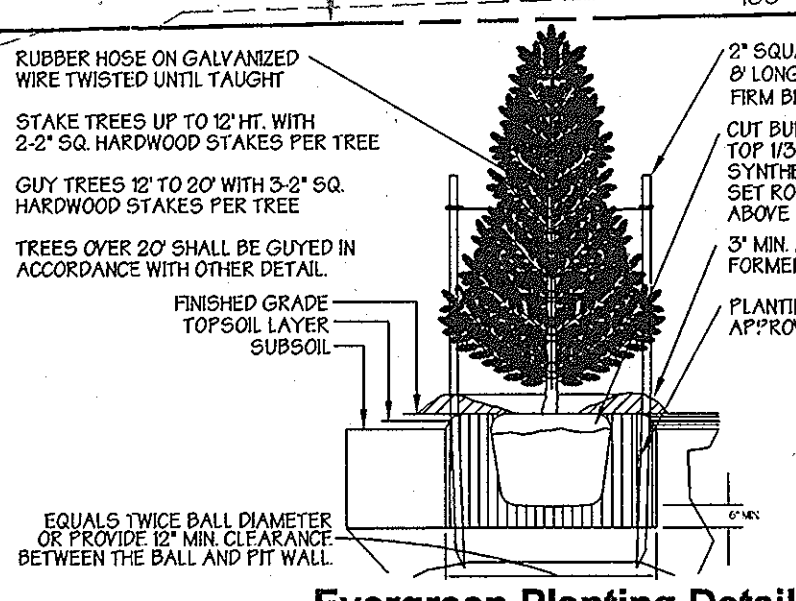
PLANT QUANT.	BOTANICAL NAME / COMMON NAME	SIZE / COND.	SPACING	REMARKS
AS 4	Acer saccharum / Green Mountain / Green Mountain Sugar Maple	2 - 12" CAL / B&B	25' O.C. AS SHOWN	FULL CROWN
AR 3	Acer rubrum / October Glory / October Glory Red Maple	2 - 12" CAL / B&B	25' O.C. AS SHOWN	FULL CROWN
LS 3	Liquidambar styraciflua / Sweetgum	2 - 12" CAL / B&B	25' O.C. AS SHOWN	FULL CROWN
AL 4	Ametanchier x grandiflora / Lamarkii / Lamarkii Serviceberry	8 - 10" HI / B&B	15' O.C. AS SHOWN	MULTI-STEM
TD 4	Taxodium distichum / Shawnee Brave / Shawnee Brave Baldcypress	5 - 6" HI. / B&B	10' O.C. AS SHOWN	FULL TO BASE
NS 4	Picea abies / Norway Spruce	5 - 6" HI. / B&B	10' O.C. AS SHOWN	FULL TO BASE

*THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE PROVISIONS OF SECTION 16.124 OF THE HOWARD COUNTY CODE AND THE LANDSCAPE MANUAL.

FINANCIAL SURETY FOR THE REQUIRED LANDSCAPING HAS BEEN POSTED AS PART OF THE DFW DEVELOPER'S AGREEMENT IN THE AMOUNT OF \$5,550.00.

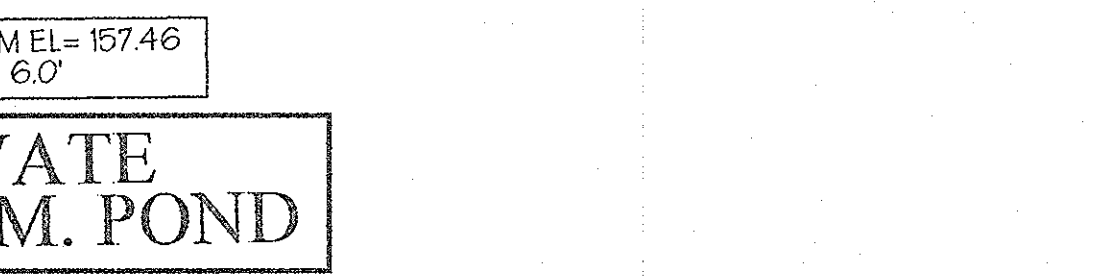
PLAN

SCALE: 1" = 50'



Tree Planting Detail

NOT TO SCALE



PRIVATE S.W.M. POND
 TOP DAM EL. = 157.46
 WIDTH = 6.0'

These plans for S.W.M. construction, soil erosion and sediment control meet the requirements of Howard Soil Conservation District.

APPROVED: HOWARD SOIL CONSERVATION DISTRICT

PLAN NUMBER: _____ DATE: _____

Reviewed for the Howard Conservation District and meets technical requirements.

NATURAL RESOURCES CONSERVATION SERVICE DATE: _____

APPROVED: Howard County Department of Planning and Zoning

Chief, Development Engineering Division DATE: 1/12/99

Chief, Division of Land Development DATE: 1/21/99

DIRECTOR DATE: 1/22/99

ADDRESS CHART

PARCEL NO.	STREET ADDRESS
F & G	6600 SANTA BARBARA ROAD
A	6675 AMBERTON RD.

SUBDIVISION NAME	SECTION NAME	PARCEL #
ROUTE 100 BUSINESS PARK	1	A, F & G
PLAT 26 FOLIO 49, 24 FOLIO 14	BLOCK # 39A	ZONE M-2
	TAX MAP	ELECT. DIST. 1
	SEWER CODE	CENSUS TRACT 6012

GEORGE WILLIAM STEPHENS, JR. AND ASSOCIATES, INC.
 CIVIL ENGINEERS & LAND SURVEYORS
 658 KENILWORTH DRIVE, SUITE 100
 TOWSON, MARYLAND 21204
 (410) 825-8120

ENGINEER CERTIFICATION:
 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 Soil Conservation District.

Engineer: *N. J. Prader, III* Date: 1/12/99
 Name: Nicholas J. Prader, III PE# 18858

OWNER/DEVELOPER
MIE PROPERTIES CO.
 5720 Executive Drive
 Baltimore, Maryland 21228-1789
 (410) 788-0100

DEVELOPER'S/BUILDER'S CERTIFICATION:
 I/We certify that the landscaping shown on this plan will be done according to the plan, Section 16.124 of the Howard County Code and the Howard County Landscape Manual. I/We further certify that upon completion a Certification of Landscape Installation, accompanied by an executed one year guarantee of plant material, will be submitted to the Department of Planning and Zoning.

Developer: *Jeffrey A. Gish, P.E.* Date: 12/3/98
 Name: Jeffrey A. Gish, P.E.

DESIGNED BY: H.P.P.
 DRAWN BY: P.L.T.
 CHECKED BY: N.B.
 REVISIONS

Landscape Plan
ROUTE ONE HUNDRED BUSINESS PARK
 BLOCK "A"
 Previous File Nos. SDP 72-27, SDP 74-80, F #81
 Election District #1
 Parcels A, F & G
 Scale: 1"=50'

Howard County, Maryland
 October 13, 1998
 Sheet 10 of 10