

**gva**  
 george vaeth  
 associates, inc.  
 architect

5501 twin knolls road suite 108  
 columbia, maryland 21045

STATE OF MARYLAND  
 JACK DAFT  
 LANDSCAPE ARCHITECT

STATE OF MARYLAND  
 JACK DAFT  
 LANDSCAPE ARCHITECT

**JACK DAFT**  
 LANDSCAPE ARCHITECT

SUITE 1803  
 302 EAST JOPPA ROAD  
 TOWSON, MD. 21284

HOFF, ROSENBLUM & WOODFOLK, INC.  
 CIVIL ENGINEERS & LANDSCAPE ARCHITECTS  
 70 D PAINTERS MILL RD.  
 OWINGS MILLS, MD. 21117

REVISIONS (NEW) 12-21-05  
 SITE ANALYSIS REVISION,  
 REVISION OF DUMPSTER  
 LOCATION & PARKING LAYOUT  
 REVISIONS 9/21/2011  
 SITE ANALYSIS REVISION REFLECTING OFFICE  
 AND MARTIAL ARTS STUDIO USES. ADD A  
 SIDEWALK ALONG THE N/E SIDE OF THE BUILDING  
 FOR H.C. ACCESS. 9-21-83  
 JMD/AMM

**SITE ANALYSIS**

BLDG. AREA: 25,972 SF  
 EXISTING OFFICE: 25,972 S.F.  
 TOTAL PROP. OFFICE: 21,225 S.F.  
 TOTAL PROP. MARTIAL ARTS STUDIO: 4,747 S.F.

**PARKING REQUIRED**

MARTIAL ARTS STUDIO: 5/1000 = 24 SPACES  
 OFFICE: 2/1000 SF = 43 SPACES  
 TOTAL PARKING PROVIDED = 89 SPACES  
 (INCLUDING 4 HANDICAP ACCESSIBLE SPACES)

ENTIRE PARKING TO BE  
 RESTRIPTED TO MATCH  
 NUMBERED SPACES

\* NOTE: PARKING REQUIREMENTS ARE  
 BASED ON OBLIGATIONS OUTLINED  
 IN FDP-128-A-II

**OWNER:**

1824 MCGAW COURT, LLC  
 8924 MCGAW COURT  
 COLUMBIA, MARYLAND

FOR REVISION # 3 ONLY  
 9/21/2011

STANDARD INDUSTRIAL ENTRANCE  
 CONNECTED TO CLOSED SECTION ROADWAY  
 TRAFFIC VOLUME 2,100 V.P.H.  
 SEE HOWARD CO. STANDARD  
 DETAIL R-6-07

100'± TO EXIST. FIRE HYDRANT

**APPROVED:**  
 FOR PUBLIC WATER SEWERAGE &  
 STORM DRAINAGE SYSTEMS & ROADS  
 HOWARD CO. DEPT. OF PUBLIC WORKS

11-14-83  
 DATE

**APPROVED:**  
 FOR PUBLIC WATER & PUBLIC SEWERAGE SYSTEMS  
 HOWARD CO. HEALTH DEPT.

11-14-83  
 DATE

**APPROVED:**  
 FOR PUBLIC WATER & PUBLIC SEWERAGE SYSTEMS  
 HOWARD CO. HEALTH DEPT.

11-17-83  
 DATE

**APPROVED:**  
 HOWARD CO. OFFICE OF PLANNING & ZONING

11-17-83  
 DATE

DIVISION OF LAND DEVELOPMENT & ZONING ADA

**LEGEND**

PARCEL OUTLINE  
 EXISTING CURB  
 PROPOSED CURB  
 EXISTING CONTOUR  
 PROPOSED CONTOUR  
 PROPOSED SPOT EL.  
 DIRECTION OF SURFACE FLOW  
 PROP. CHAIN LINK FENCE

**SITE ANALYSIS**

ZONING  
 SITE AREA  
 OPEN SPACE REQ.  
 OPEN SPACE PROVIDED  
 BLDG. COVERAGE ALLOWED  
 BLDG. COVERAGE SHOWN

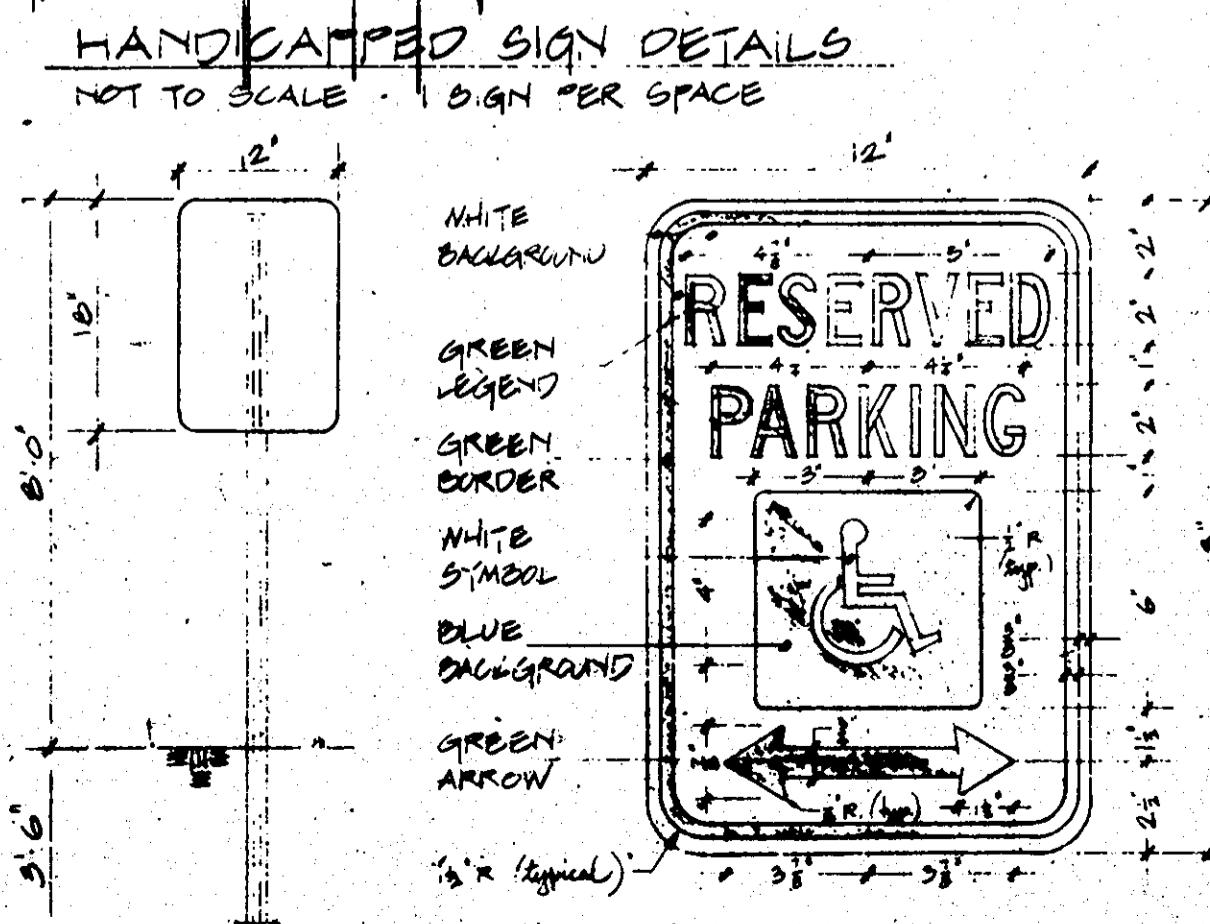
NT FDP-128-A-II  
 2.38 ACRES / 103,673 SQ. FT.  
 20% - 20,735 SQ. FT.  
 35% - 35,111 SQ. FT.  
 50% - 51,827 SQ. FT.  
 25% / 25,972 SQ. FT.

PARKING & LOADING AREA  
 STORAGE AREA  
 33,940'±  
 8050'±

OFFICE SPACE PROPOSED 9902'±  
 WAREHOUSE SPACE PROPOSED 10499'±

MAXIMUM NUMBER OF EMPLOYEES  
 OFFICE 20  
 WAREHOUSE 28

PARKING REQUIRED  
 OFFICE (1/1000) 14 SPACES  
 WAREHOUSE (1/2 EMPLOY) 14 SPACES  
 TOTAL PARKING REQUIRED 28  
 TOTAL PARKING PROVIDED 49  
 (VANT. SPACES NOT INCLUDED IN PARKING COUNT)



**REVISIONS**

REVISION HOUSE CONNECTION &  
 FIRE HYDRANT LOCATION 2/12/84

**ADDRESS CHART**

PARCEL NO. F-1  
 STREET ADDRESS 8924 MCGAW COURT

**OWNER:**  
 PLASTIC PIPING SYSTEMS OF MARYLAND  
 4035 RED BRANCH ROAD  
 COLUMBIA, MD. 21045 (501) 917-0800

BEING PARCEL F-1 AS SHOWN ON THE  
 PLAT OF SELING INDUSTRIAL CENTER,  
 PLAT # 5030

**OFFICE / WAREHOUSE  
 FABRICATION FACILITY**

PLASTIC PIPING SYSTEM OF  
 MARYLAND  
 SECTION ONE, AREA TWO  
 SELING INDUSTRIAL CENTER  
 PARCEL F-1 MCGAW COURT  
 COLUMBIA, MARYLAND  
 ELECTION DISTRICT #6  
 HOWARD COUNTY, MARYLAND

**SITE DEVELOPMENT PLAN**  
 FILE NO. SDP-84-21

PROJECT NUMBER 9V-8305  
 DRAWING NUMBER C  
 PRELIMINARY ISSUE AUG. 23, 1983  
 CONSTRUCTION ISSUE 1

SCALE: 1" = 20'  
 OF 7

SDP-84-21c

HOFF, ROSENFELT & WOOLFOLK, INC.  
 CIVIL ENGINEERS & LANDSCAPE ARCHITECTS  
 700 PAINTERS MILL RD.  
 OWINGS MILLS, MD. 21117

**gva**  
 george vaeth  
 associates, inc.  
 architect

5501 twin knolls road suite 108  
 columbia, maryland 21045

STATE OF MARYLAND  
 JACK R. DAFT  
 LANDSCAPE ARCHITECT  
 STATE OF MARYLAND  
 JACK R. DAFT  
 LANDSCAPE ARCHITECT

**JACK DAFT**  
 LANDSCAPE ARCHITECT

SUITE 1803  
 302 EAST JOPPA ROAD  
 TOWSON, MD. 21204

**REVISIONS**

NO	DATE	ITEM

APPROVED  
 PLANNING BOARD  
 OF HOWARD COUNTY  
 DATE 9-21-83  
 [Signature]

OWNER:  
 PLASTIC PIPING SYSTEMS OF MD., INC.  
 9099 RED BRANCH RD.  
 COLUMBIA, MD. 21048 (301) 997-0800

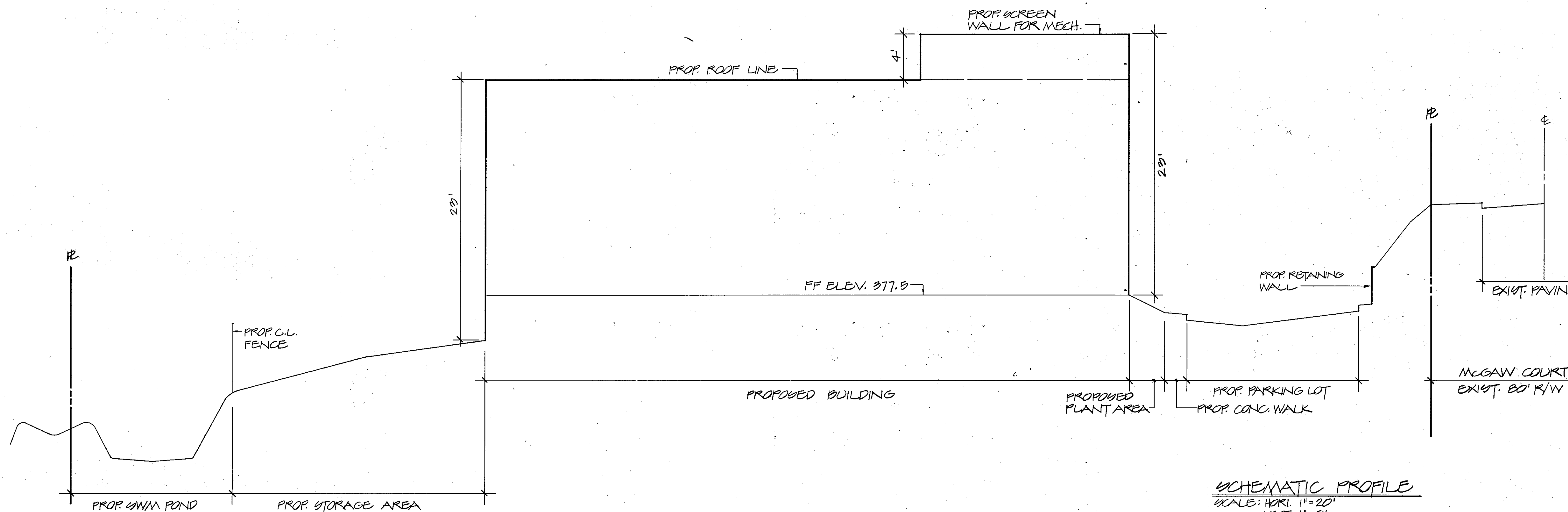
BEING PARCEL F-1 AS SHOWN ON THE  
 PLAT OF SELING INDUSTRIAL CENTER,  
 PLAT 9030

OFFICE / WAREHOUSE  
 FABRICATING FACILITY

PLASTIC PIPING SYSTEMS  
 OF MARYLAND  
 SECTION ONE, AREA TWO  
 SELING INDUSTRIAL CENTER  
 COLUMBIA, MARYLAND  
 ELECTION DISTRICT #6  
 HOWARD COUNTY, MARYLAND

SITE DEVELOPMENT DETAILS  
 FILE NO. SDP-84-21

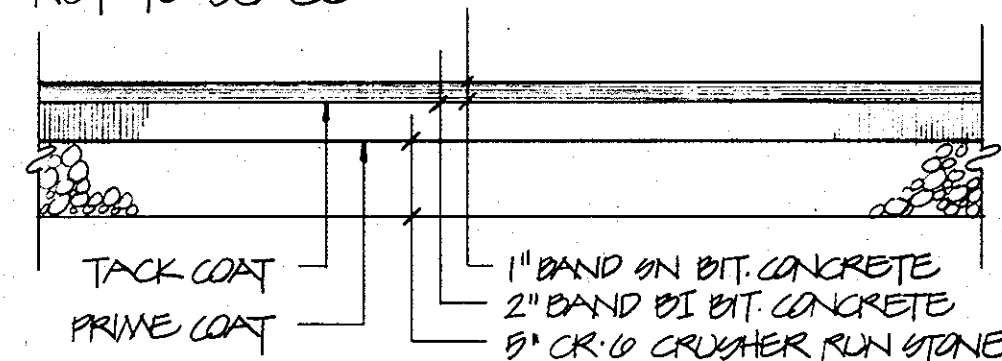
PROJECT NUMBER GV-8305	DRAWING NUMBER C 2
PRELIMINARY ISSUE AUG 23, 1983	
CONSTRUCTION ISSUE	
SCALE AS SHOWN	2 OF 7



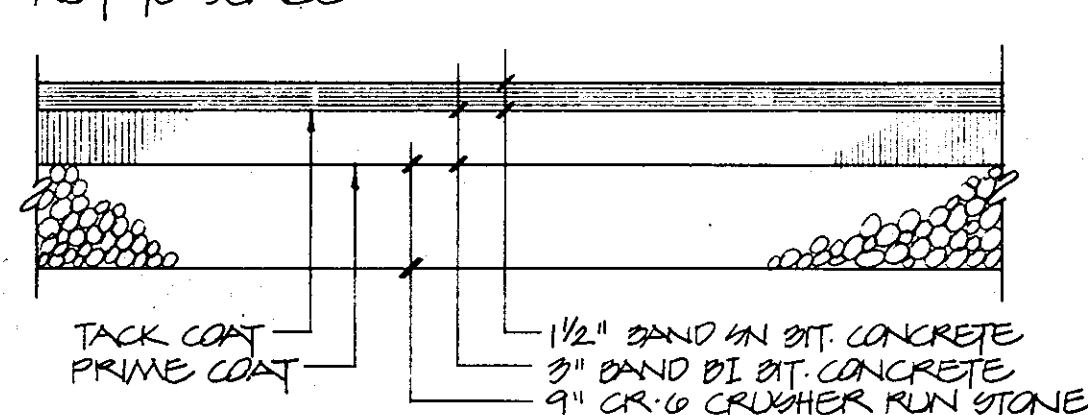
SCHEMATIC PROFILE  
 SCALE: HORZ. 1"=20'  
 VERT. 1"=5'

ELEVATION 355

PAVING SECTION "A"  
 NOT TO SCALE



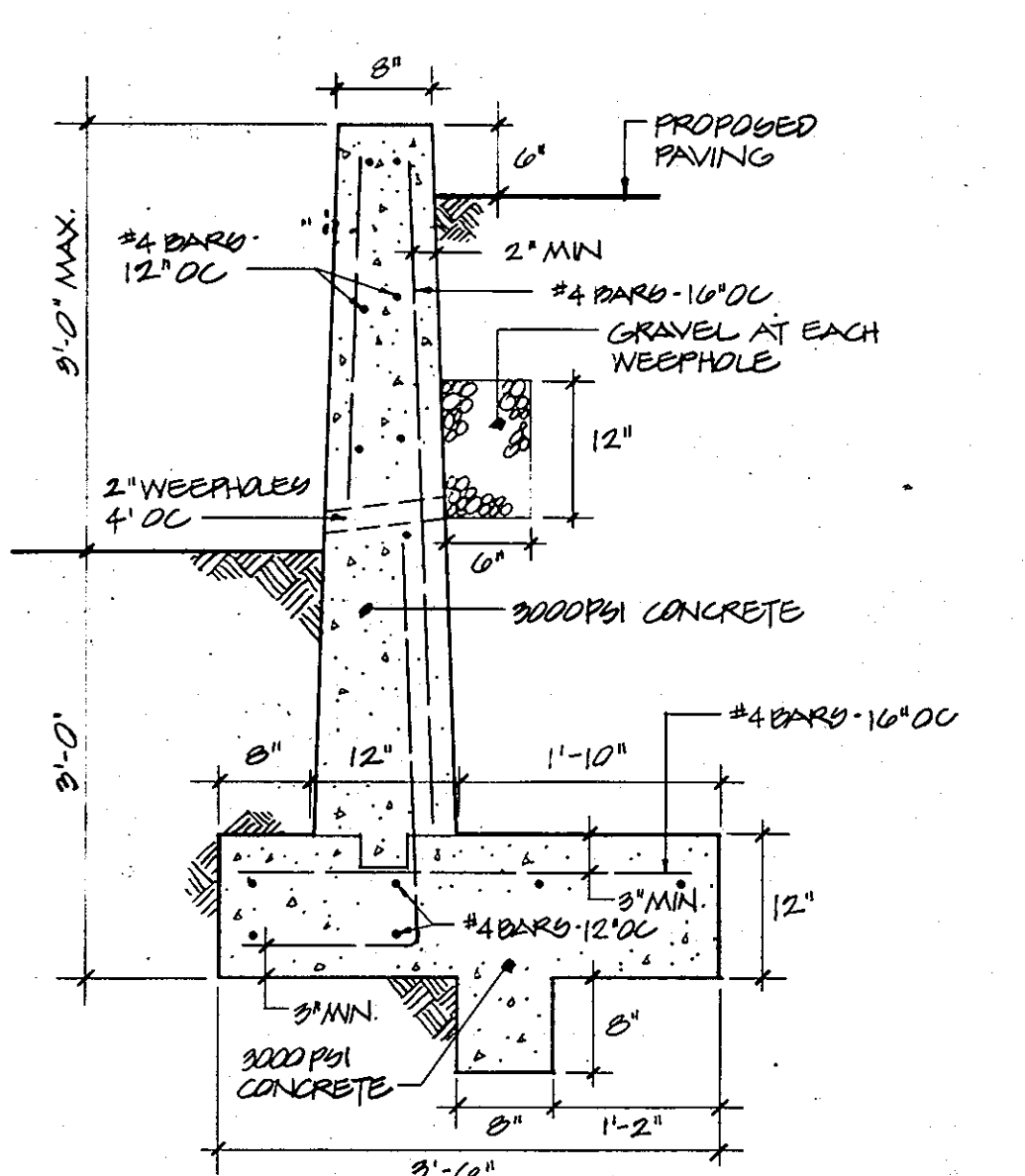
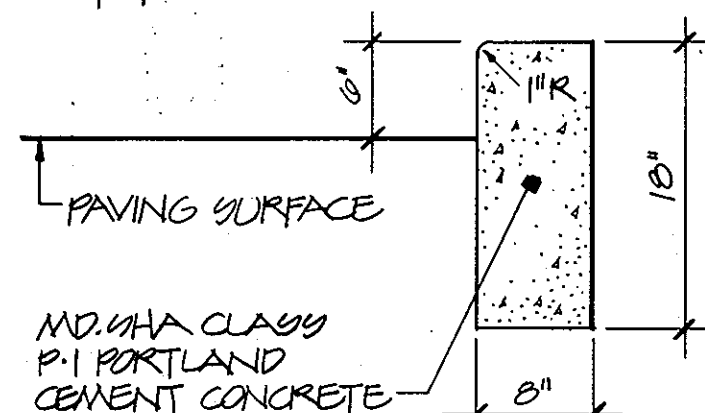
PAVING SECTION "B"  
 NOT TO SCALE



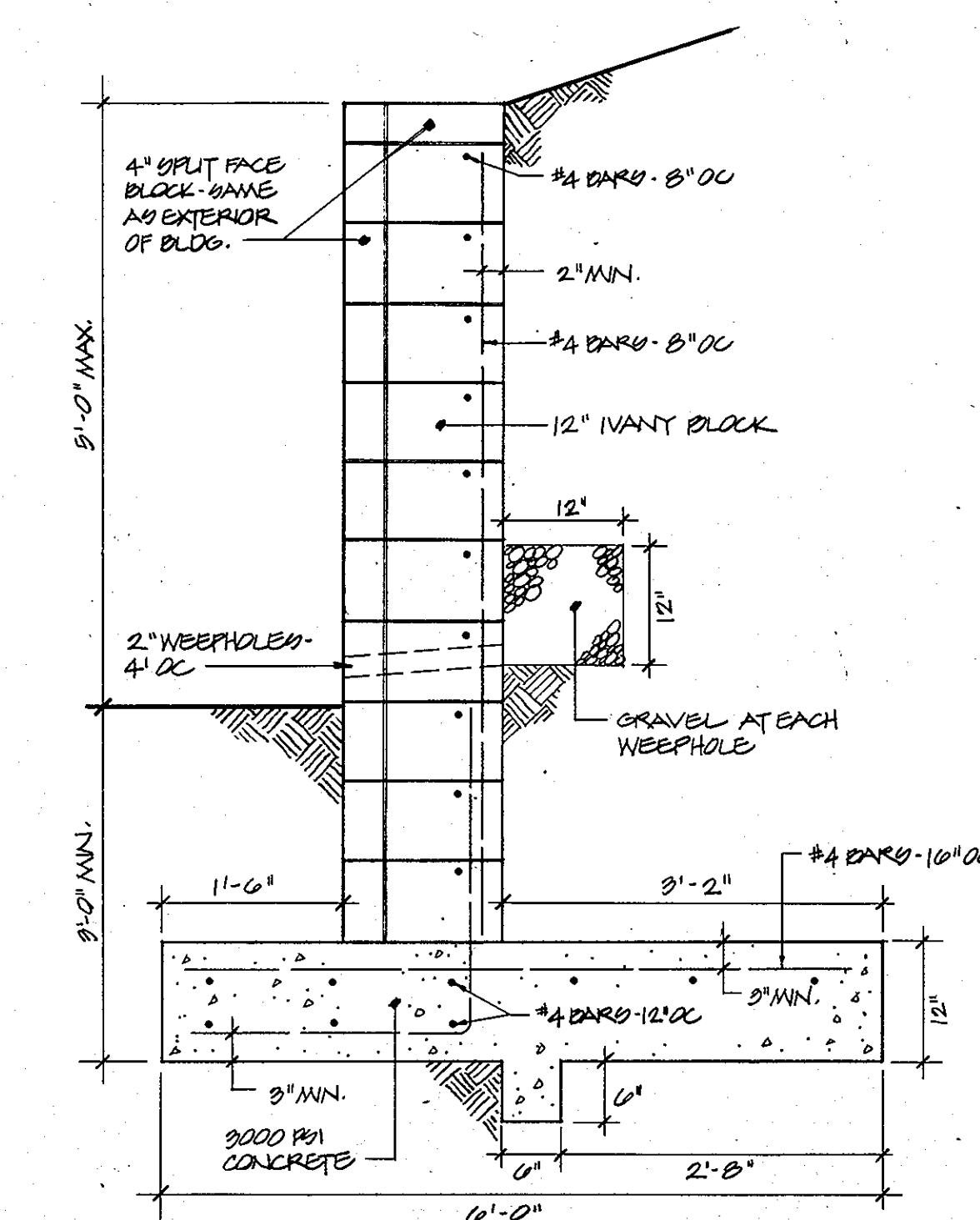
PAVING NOTES:

- BITUMINOUS CONCRETE BAND DESIGNATIONS ARE PER MARYLAND STATE HIGHWAY ADMINISTRATION SPECS. ALL MATERIALS TO BE MIXED & PLACED IN ACCORDANCE WITH SPEC.
- TACK COAT OF 0.25 GAL/SY. OF MC-4 SHALL BE APPLIED TO EACH UNDERLYING LAYER OF BIT. CONCRETE PRIOR TO PLACING SUBSEQUENT COURSES.
- PRIME COAT OF 0.3 GAL/SY. OF MC-70 SHALL BE APPLIED ON TOP OF EACH GRANULAR BASE COURSE.

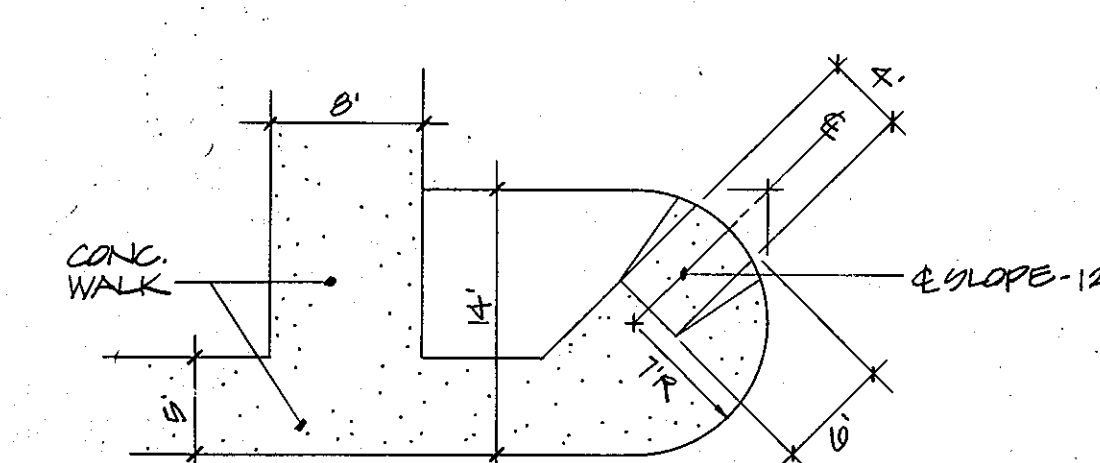
CURB DETAIL  
 NOT TO SCALE



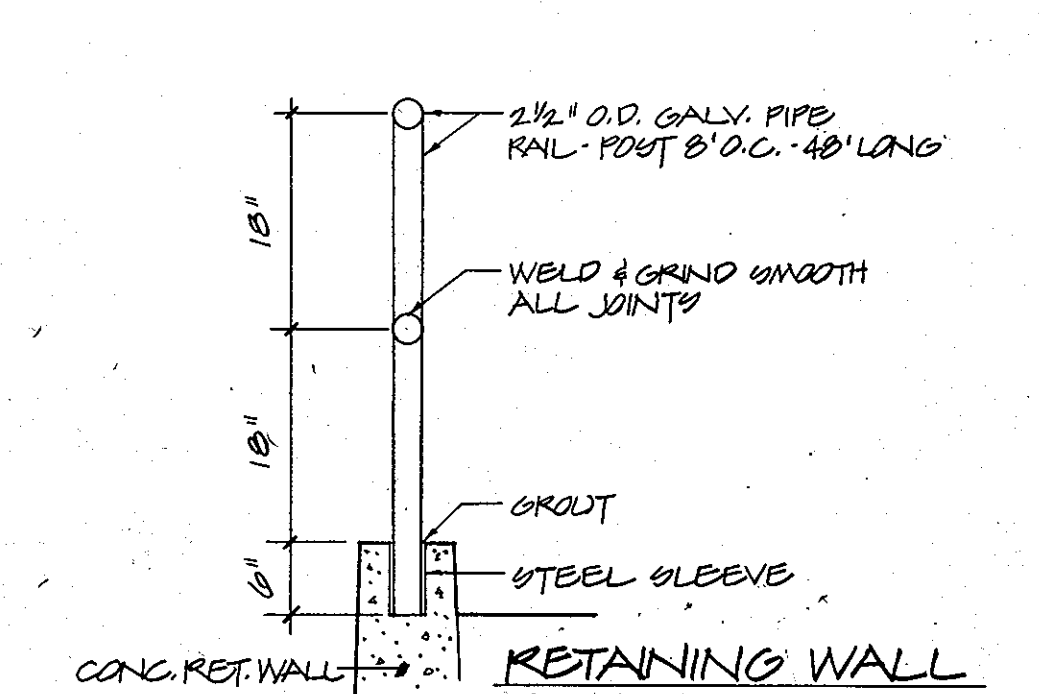
TYPICAL SECTION  
 REINFORCED CONCRETE RET. WALL  
 SCALE: 3/4"=1'-0"



TYPICAL SECTION  
 CONCRETE BLOCK RETAINING WALL  
 SCALE: 3/4"=1'-0"



HANDICAPPED RAMP  
 DETAIL  
 SCALE: 1"=10'



RETAINING WALL  
 RAILING DETAIL  
 SCALE: 3/4"=1'-0"

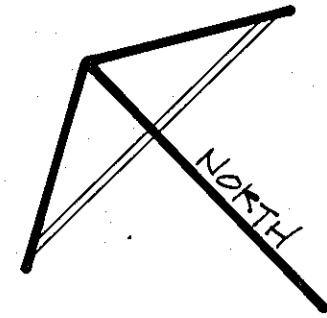
APPROVED:  
 FOR PUBLIC WATER, PUBLIC SEWERAGE & STORM  
 DRAINAGE SYSTEMS AND ROADS  
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
 [Signature] 11-14-83  
 DIRECTOR DATE

APPROVED:  
 FOR PUBLIC WATER & PUBLIC SEWERAGE SYSTEMS  
 HOWARD COUNTY HEALTH DEPARTMENT  
 [Signature] 11-14-83  
 CHIEF, BUREAU OF ENGINEERING DATE

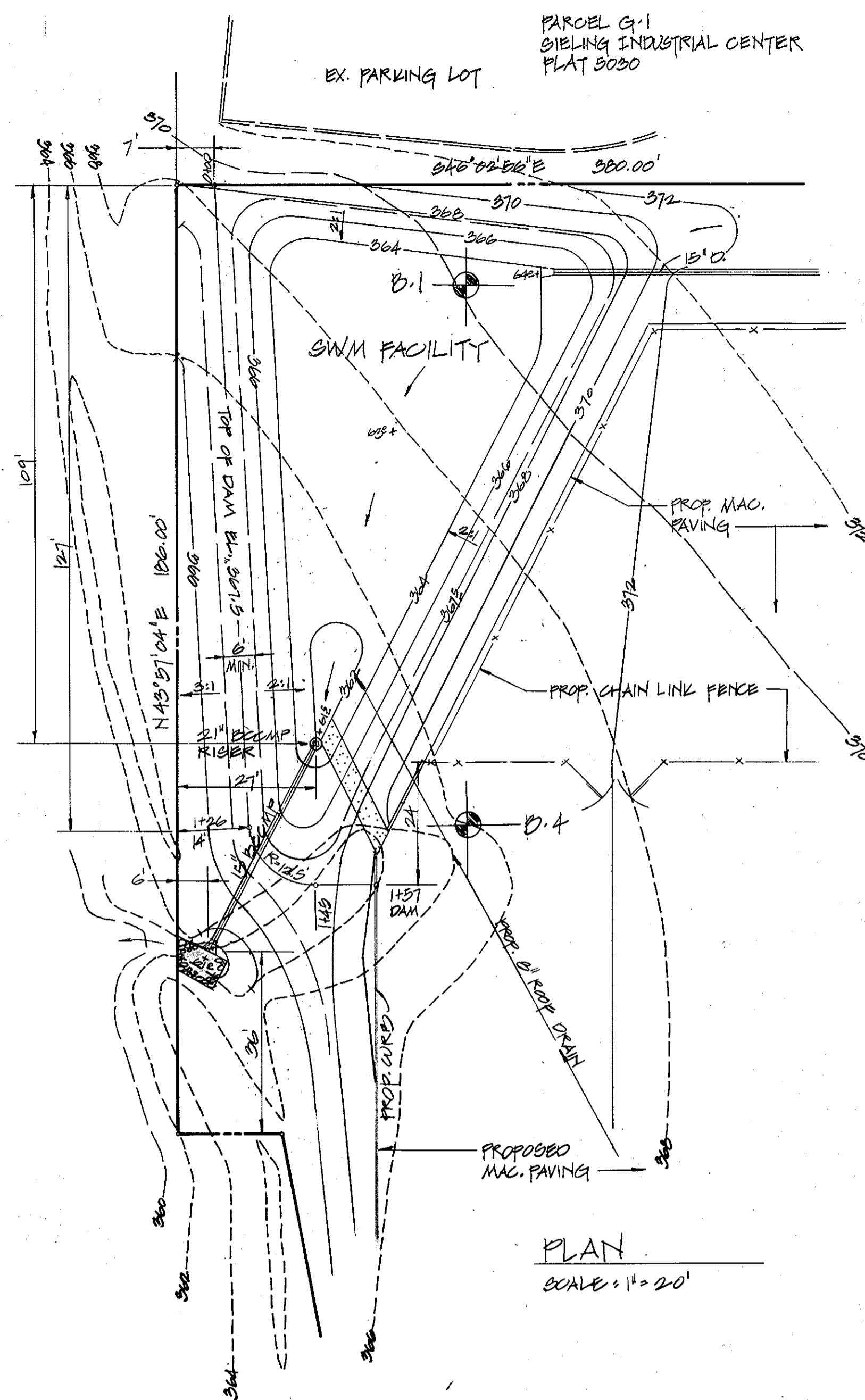
APPROVED:  
 FOR PUBLIC WATER & PUBLIC SEWERAGE SYSTEMS  
 HOWARD COUNTY HEALTH DEPARTMENT  
 [Signature] 11/6/83  
 COUNTY HEALTH OFFICER DATE

APPROVED:  
 HOWARD CO. OFFICE OF PLANNING & ZONING  
 [Signature] 11-17-83  
 PLANNING DIRECTOR DATE

APPROVED:  
 [Signature] 11-7-83  
 CHIEF, DIVISION OF LAND DEVELOPMENT & ZONING ADMIN. DATE

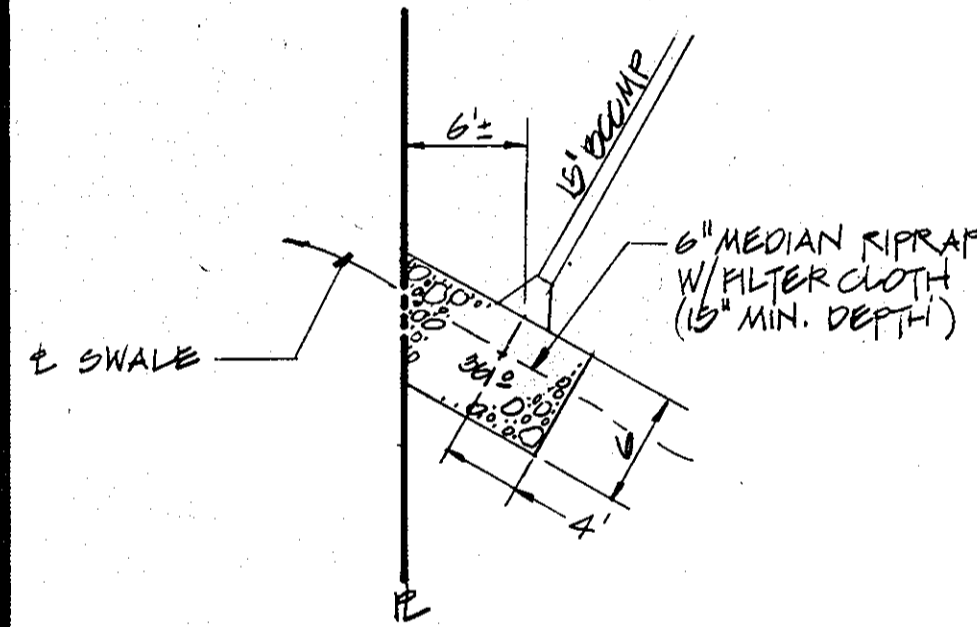


LOT 3, SIELING IND. CENTER  
PLAT 9028-1, PLOUG 6

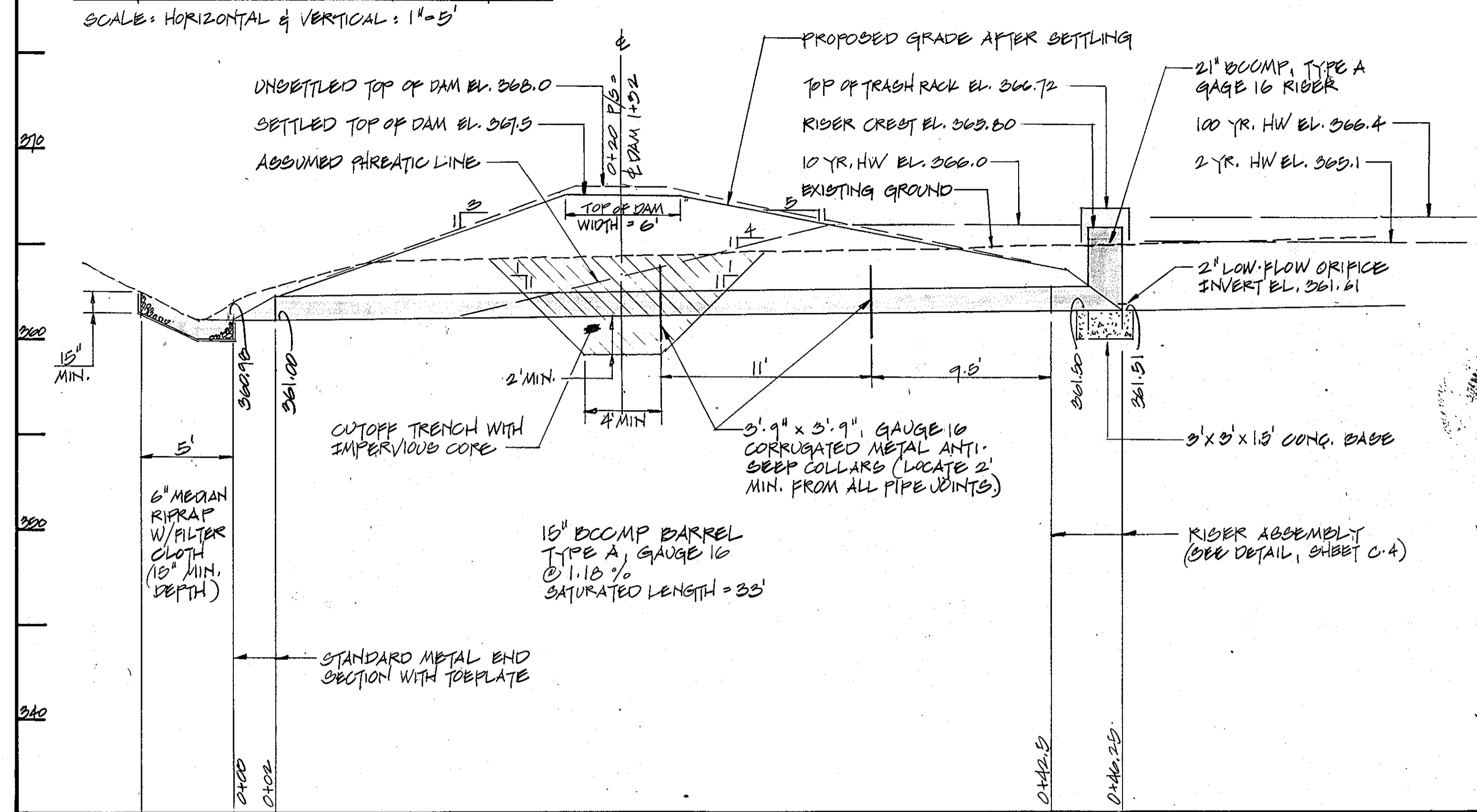


PLAN  
SCALE: 1" = 20'

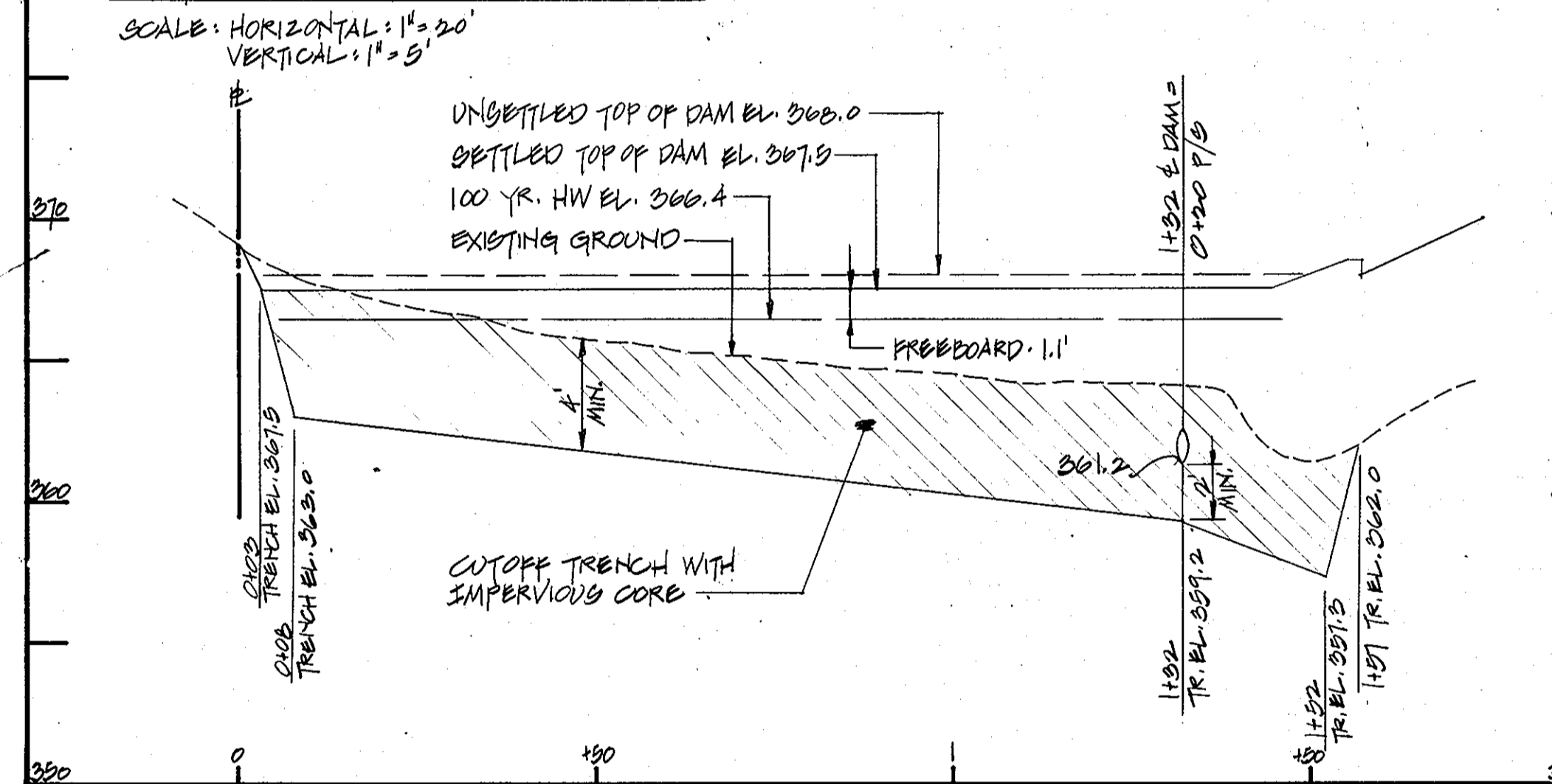
OUTFALL DETAIL  
SCALE: 1" = 10'



PROFILE - PRINCIPAL SPILLWAY  
SCALE: HORIZONTAL & VERTICAL: 1" = 5'



PROFILE - § OF DAM  
SCALE: HORIZONTAL: 1" = 20'  
VERTICAL: 1" = 5'



THIS PLAN HAS BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS FOR SMALL POND CONSTRUCTION, SOIL EROSION & SEDIMENT CONTROL.

*[Signature]* 11-8-83  
U.S. SOIL CONSERVATION DISTRICT DATE

THIS DEVELOPMENT PLAN IS APPROVED FOR SMALL POND CONSTRUCTION, SOIL EROSION & SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.

APPROVED:  
*[Signature]* 11-8-83  
HOWARD SOIL CONSERVATION DISTRICT DATE

APPROVED:  
FOR PUBLIC WATER, PUBLIC SEWERAGE & STORM DRAINAGE SYSTEMS AND ROADS  
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
*[Signature]* 11-14-83  
DIRECTOR DATE

APPROVED:  
FOR PUBLIC WATER & PUBLIC SEWERAGE SYSTEMS  
HOWARD COUNTY HEALTH DEPARTMENT  
*[Signature]* 11-14-83  
CHIEF, BUREAU OF ENGINEERING DATE

APPROVED:  
FOR PUBLIC WATER & PUBLIC SEWERAGE SYSTEMS  
HOWARD COUNTY HEALTH DEPARTMENT  
*[Signature]* 11/16/83  
COUNTY HEALTH OFFICER DATE

APPROVED:  
HOWARD CO. OFFICE OF PLANNING & ZONING  
*[Signature]* 11-17-83  
PLANNING DIRECTOR DATE  
*[Signature]* 11-17-83  
CHIEF, DIVISION OF LAND DEVELOPMENT & ZONING ADMIN. DATE

ENGINEER'S CERTIFICATION:

I CERTIFY THAT THIS PLAN FOR EROSION & SEDIMENT CONTROL REPRESENTS A PRACTICAL & 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 MUST PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN AS-BUILT PLAN OF THE POND WITHIN 90 DAYS OF COMPLETION.

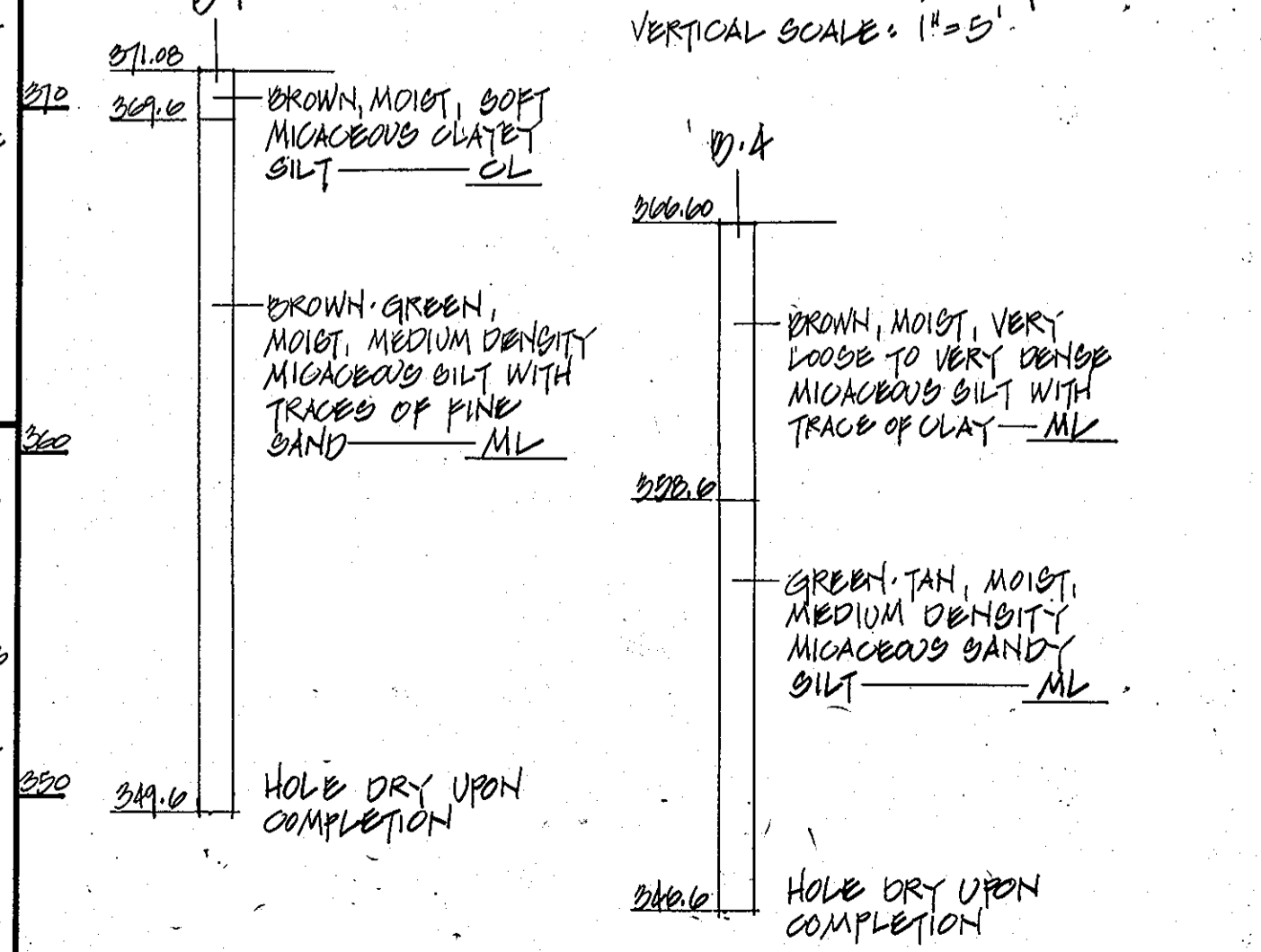
*[Signature]* 8/24/83  
ROBERT S. ROSENFELT, P.E. 12-20-11 DATE

DEVELOPER'S CERTIFICATION:

I CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN AND THAT 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 & EROSION BEFORE BEGINNING THE PROJECT. I WILL PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN AS-BUILT PLAN OF THE POND WITHIN 90 DAYS OF COMPLETION.

*[Signature]* 9/15/83  
DEVELOPER DATE

SOIL BORING LOG  
VERTICAL SCALE: 1" = 5'



DESIGN DATA

STRUCTURE  
TYPE \_\_\_\_\_ DRY SWM POND  
LOCATION \_\_\_\_\_ URBAN  
STRUCTURE CLASS \_\_\_\_\_ 'A'  
DRAINAGE AREA TO STRUCTURE \_\_\_\_\_ 2.11 AC.  
STORAGE HEIGHT PRODUCT (6' x 0.24') = 2.04'

HYDRAULIC CRITERIA  
PRINCIPAL SPILLWAY - 100 YR. > 10 YR. REQUIRED  
EMERGENCY SPILLWAY \_\_\_\_\_ NONE  
FREEBOARD REQUIRED - 100 YR. HW ELEVATION + 1.0'  
FREEBOARD PROVIDED - 100 YR. HW ELEVATION + 1.1'

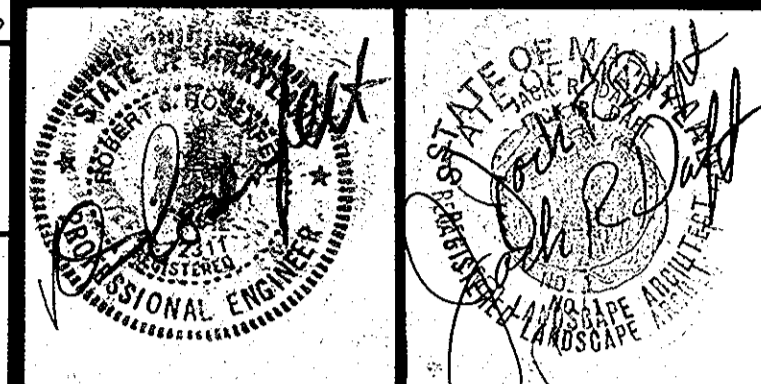
HYDROLOGIC CRITERIA  
STORAGE PROVIDED:  
2 YEAR \_\_\_\_\_ 0.90 AC. FT. @ EL. 366.1  
10 YEAR \_\_\_\_\_ 0.90 AC. FT. @ EL. 366.0  
100 YEAR \_\_\_\_\_ 0.84 AC. FT. @ EL. 366.0

RELEASE RATES:  
2 YEAR \_\_\_\_\_ 0.2 cfs  
10 YEAR \_\_\_\_\_ 1.9 cfs  
100 YEAR \_\_\_\_\_ 6.0 cfs

HOFF, ROSENFELT & WOOLFOLK, INC.  
CIVIL ENGINEERS & LANDSCAPE ARCHITECTS  
72 D PAINTERS MILL RD.  
COWING MILLS, MD. 21117

**gva**  
george vaeth  
associates, inc.  
architect

5501 twin knolls road suite 108  
columbia, maryland 21045



**JACK DAFT**  
LANDSCAPE ARCHITECT

SUITE 1803  
302 EAST JOPPA ROAD  
TOWSON, MD. 21204

REVISIONS

NO.	DATE	ITEM

APPROVED

PLANNING BOARD  
OF HOWARD COUNTY

DATE 9-21-83  
*[Signature]*

OWNER:  
PLASTIC PIPING SYSTEMS OF MD, INC.  
9055 RED BRANCH ROAD  
COLUMBIA, MD. 21048 (301) 997-0800

BEING PARCEL P-1 AS SHOWN ON THE  
PLAT OF SIELING INDUSTRIAL CENTER,  
PLAT #9030

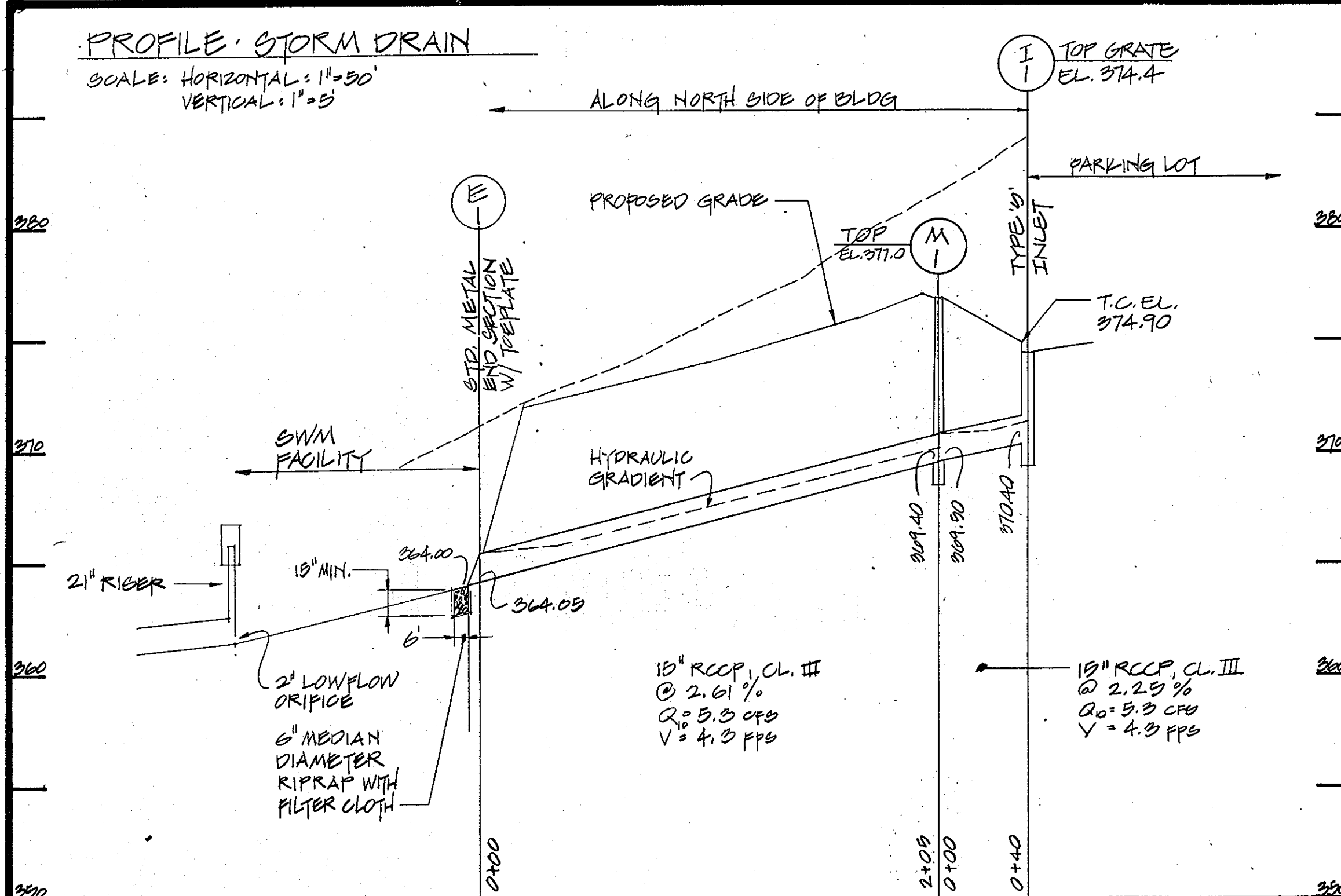
OFFICE / WAREHOUSE  
FABRICATION FACILITY

PLASTIC PIPING SYSTEMS  
OF MARYLAND  
SECTION ONE, AREA TWO  
SIELING INDUSTRIAL CENTER  
PARCEL F-1 MCGAW COURT  
COLUMBIA, MARYLAND  
ELECTION DISTRICT #6  
HOWARD COUNTY, MARYLAND

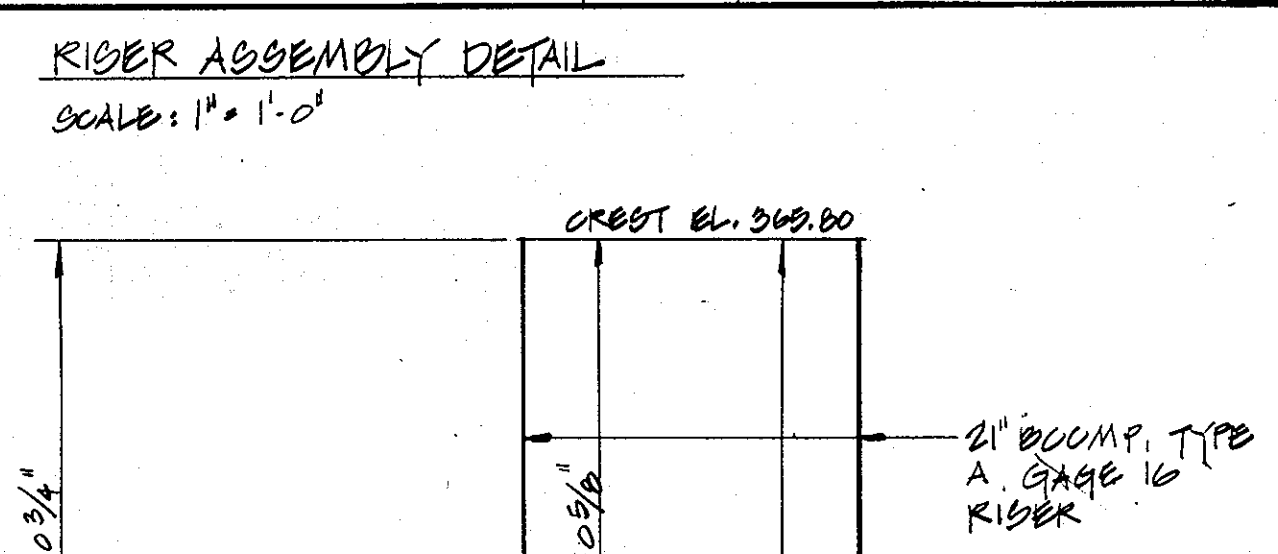
STORMWATER MANAGEMENT

FILE NO. SDP-84-21

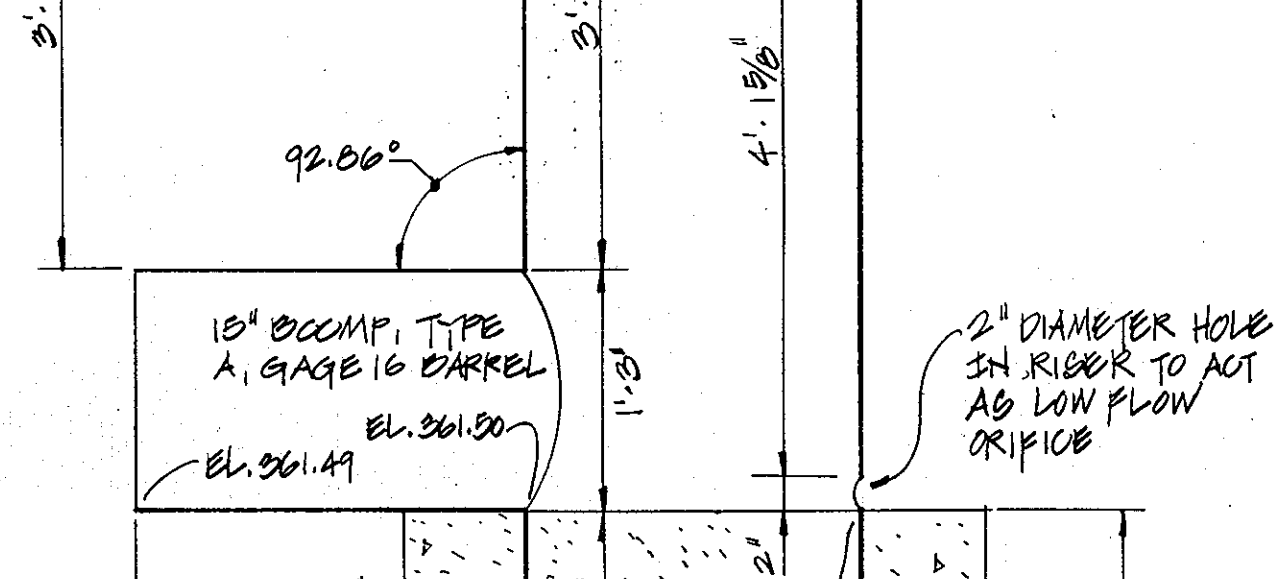
PROJECT NUMBER QV-8305	DRAWING NUMBER C 3
PRELIMINARY ISSUE AUG. 23, 1983	
CONSTRUCTION ISSUE	
SCALE AS SHOWN	3 OF 7



**ENGINEER'S CERTIFICATION:**  
 I CERTIFY THAT THIS PLAN FOR EROSION & SEDIMENT CONTROL REPRESENTS A PRACTICAL & 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 MUST PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN AS-BUILT PLAN OF THE POND WITHIN 90 DAYS OF COMPLETION.  
 ROBERT S. ROSENFELT 8/24/83 DATE  
 P.E. 12511

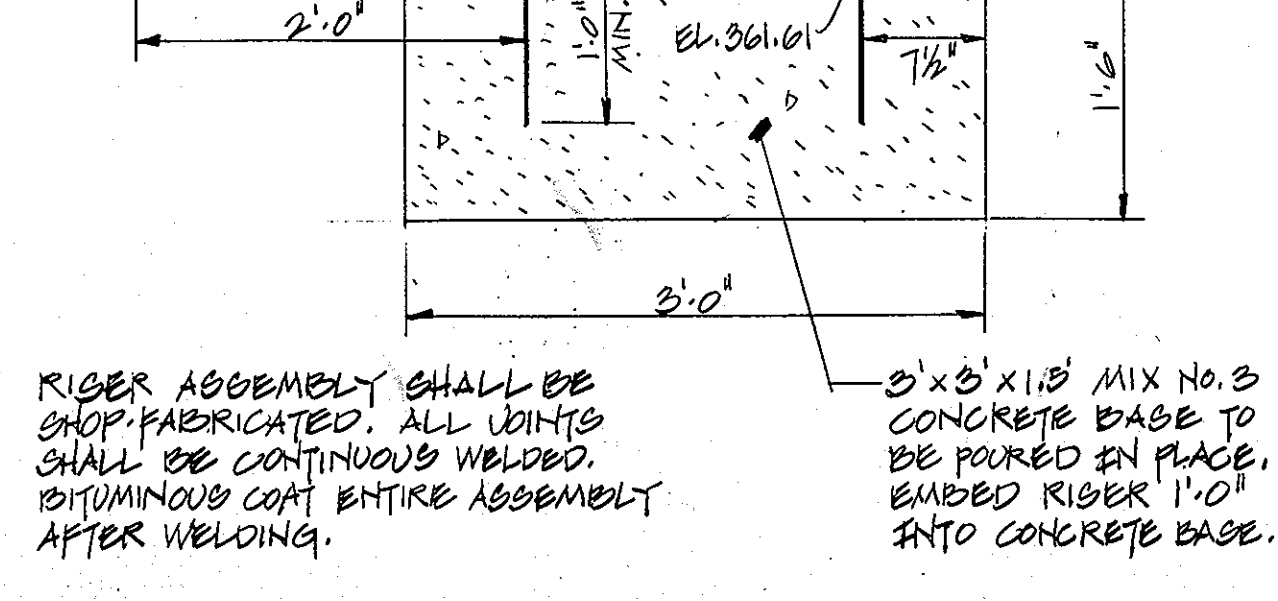


**DEVELOPER'S CERTIFICATION:**  
 I CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN AND THAT RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT & EROSION BEFORE BEGINNING THE PROJECT. I WILL PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN AS-BUILT PLAN OF THE POND WITHIN 90 DAYS OF COMPLETION.  
 JAMES M. DAVIDSON 9/5/83 DATE  
 DEVELOPER



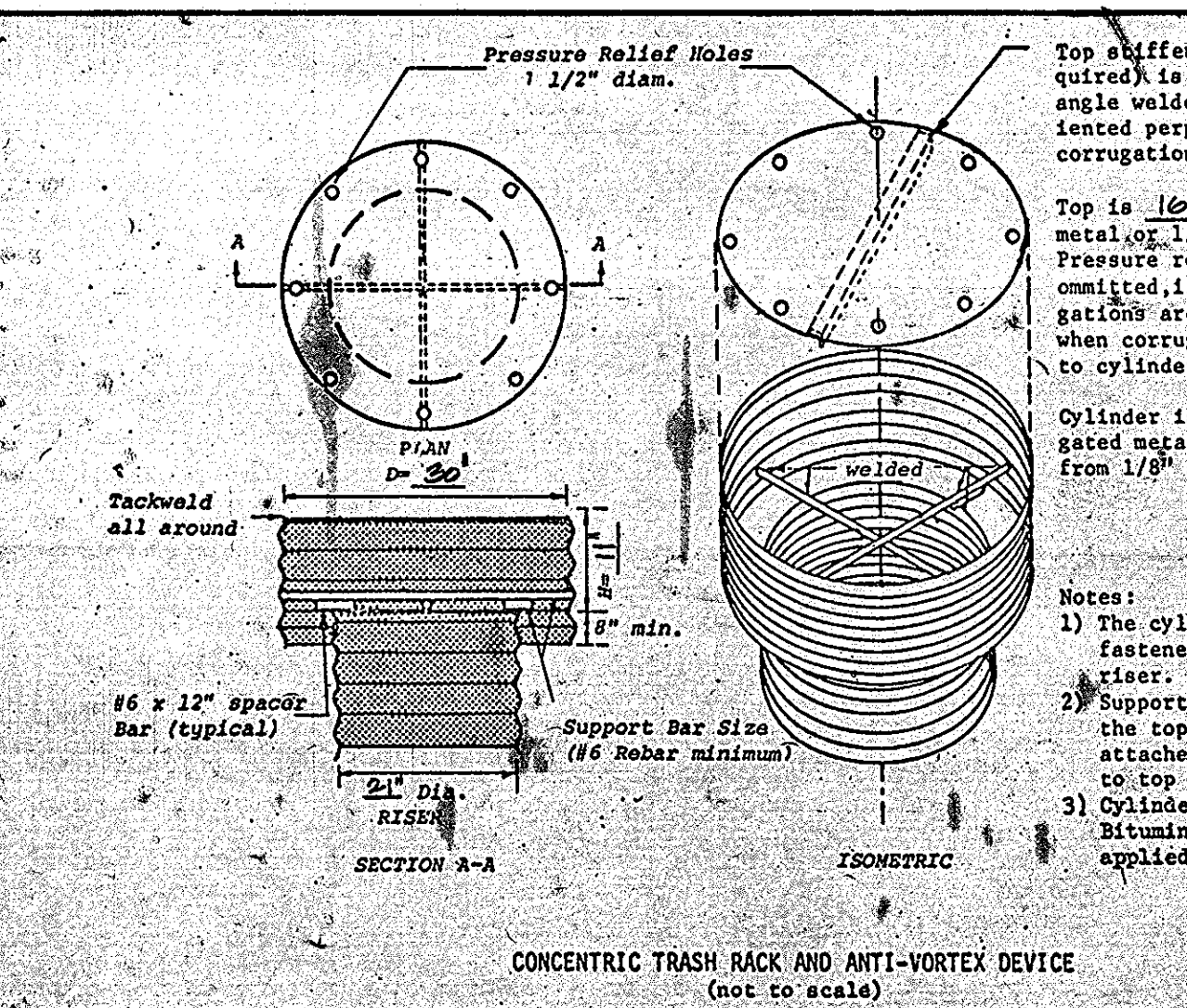
THIS PLAN HAS BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS FOR SMALL POND CONSTRUCTION, SOIL EROSION & SEDIMENT CONTROL.  
 JAMES M. DAVIDSON 11-8-83 DATE  
 U.S. SOIL CONSERVATION DISTRICT

THIS DEVELOPMENT PLAN IS APPROVED FOR SMALL POND CONSTRUCTION, SOIL EROSION & SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.  
 DANIEL ROME 11-8-83 DATE  
 HOWARD SOIL CONSERVATION DISTRICT



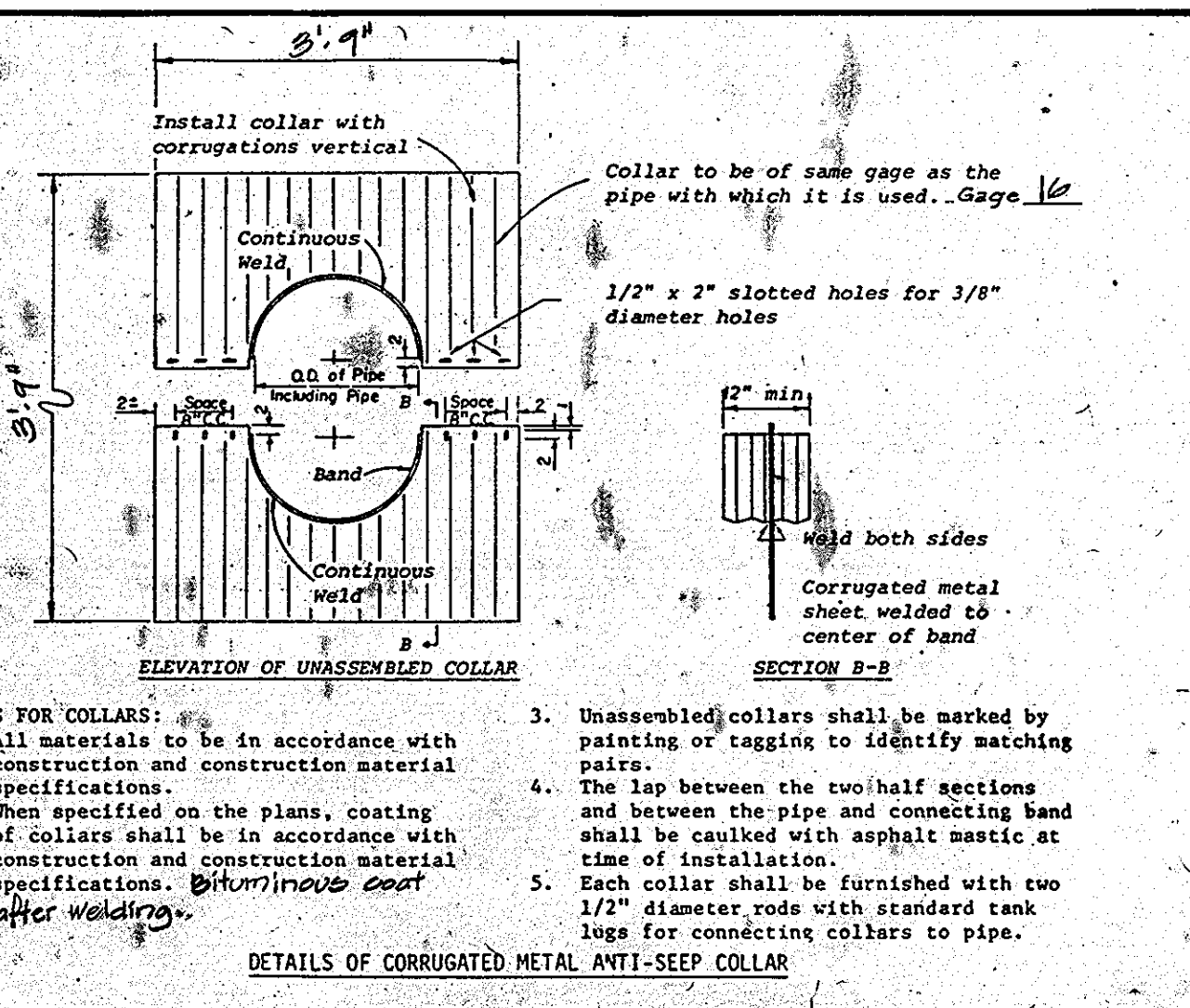
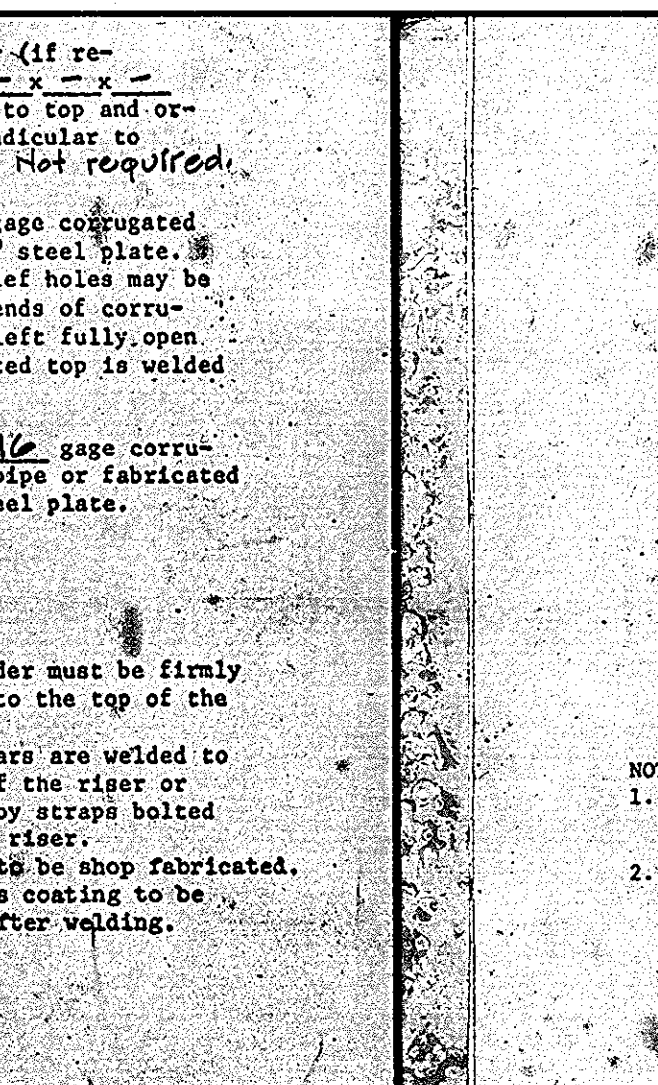
**APPROVED:**  
 FOR PUBLIC WATER, PUBLIC SEWERAGE & STORM DRAINAGE SYSTEMS AND ROADS  
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
 JAMES F. NEWMAN 11-14-83 DATE  
 DIRECTOR

**APPROVED:**  
 FOR PUBLIC WATER & PUBLIC SEWERAGE SYSTEMS  
 HOWARD COUNTY HEALTH DEPARTMENT  
 JAMES M. DAVIDSON 11-16-83 DATE  
 COUNTY HEALTH OFFICER



**APPROVED:**  
 HOWARD CO. OFFICE OF PLANNING & ZONING  
 JAMES M. DAVIDSON 11-17-83 DATE  
 PLANNING DIRECTOR

**APPROVED:**  
 DIVISION OF LAND DEVELOPMENT & ZONING ADMIN.  
 JAMES M. DAVIDSON 11-17-83 DATE  
 CHIEF



**CONSTRUCTION SPECIFICATIONS**

**I. 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 deeper than 1:1.  
 Areas to be covered by the pond or reservoir will be cleared of all trees, brush, logs, fences, rubbish and other objectionable material unless otherwise designated on the plans. Trees, brush and stumps shall be cut approximately level with the ground surface.  
 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.

**II. EARTH FILL**  
**MATERIAL**  
 The fill material shall be taken from approved designated borrow area or areas. It shall be free of roots, stumps, wood, rubbish, oversize 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 all along the length of the embankment shall be increased above the design elevation (including freeboard) as shown on the plans.  
**PLACEMENT**  
 Areas on 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 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 can be obtained with the equipment used. Compact to 95% of AASHTO T-99 density.  
 Where a minimum required density is specified, each layer of fill shall be compacted as necessary to obtain that density and is to be certified by the Engineer.

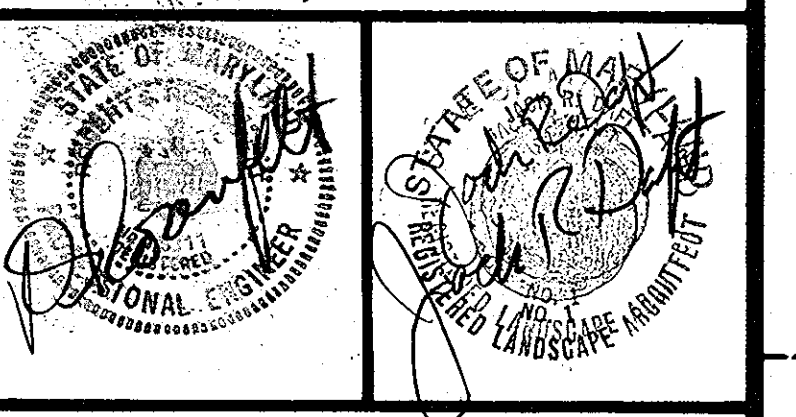
**III. CORE TRENCH**  
 Where specified, a core trench shall be excavated along or parallel to the centerline of the embankment as shown on the plans. The bottom width of the trench shall be as shown on the drawings, with the minimum width being four feet. The depth shall be at least four feet or as shown on the plans. The side slopes of the trench shall be 1 to 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.

**IV. PIPE CONDUITS**  
**A. CORRUGATED METAL PIPE**  
 1. Materials - (Steel Pipe) - This pipe and its appurtenances shall be galvanized and fully bituminous coated and shall conform to the requirements of 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.  
 2. Connections - All connections with pipes must be completely watertight. The drain pipe or barrel connection to the riser shall be welded all around. Watertight coupling bands shall be used at all joints. Anti-seep collars shall be connected to the pipe in such a manner as to be completely watertight.  
 3. 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.  
 4. Laying pipe - The pipe shall be placed with inside circumferential laps pointing downstream and with the longitudinal laps at the sides.  
 5. Backfilling shall conform to structural backfill as shown above.  
 6. Other details (anti-seep collars, valves, etc.) shall be as shown on the drawings.

**V. CONCRETE STRUCTURES**  
 Concrete structures shall meet minimum requirements set forth in the latest Maryland State Highway Administration "Specifications for Materials, Highways, Bridges, and Incidental Structures", as amended.  
**A. CONCRETE**  
 Article 20.07 (Portland Cement Concrete Mixtures), Mix No. 3.  
**IX. INSPECTION**  
 Contractor shall notify the engineer a minimum of 5 working days prior to starting any work shown on these plans.  
**X. GENERAL**  
 Unless otherwise noted, all materials and construction practices shall conform to the following:  
 1. "Standard Specifications and Details" of the Howard County, Maryland Department of Public Works, as amended.  
 2. "Specifications for Materials, Highways, Bridges, and Incidental Structures" of the Maryland State Highway Administration, as amended.  
 3. "Standard Specifications for Ponds" of the Soil Conservation Service of Maryland (MD-378), July, 1981 and as amended.

HOFF, ROSENFELT & WOOLFOLK, INC.  
 CIVIL ENGINEERS & LANDSCAPE ARCHITECTS  
 70 D PAINTERS MILL RD.  
 OWINGS MILLS, MD. 21117

**gva**  
 george vaeth  
 associates, inc  
 architect  
 5501 twin knolls road suite 108  
 columbia, maryland 21045



**JACK DAFT**  
 LANDSCAPE ARCHITECT  
 SUITE 1603  
 302 EAST JOPPA ROAD  
 TOWSON, MD. 21204

REVISIONS		
NO.	DATE	ITEM

**APPROVED**  
 PLANNING BOARD  
 OF HOWARD COUNTY  
 DATE: 9-21-83  
 JAMES M. DAVIDSON

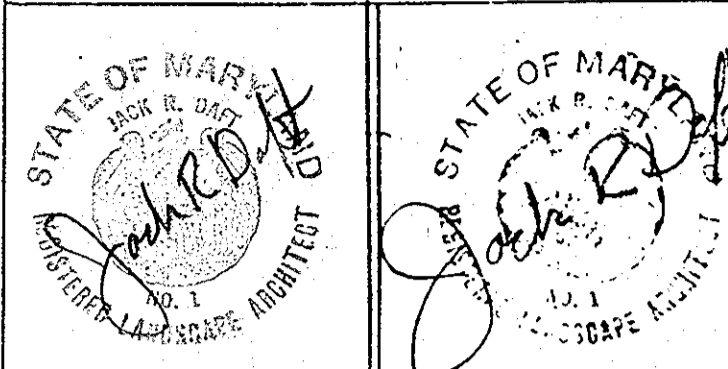
OWNER:  
 PLASTIC PIPING SYSTEMS OF MD., INC.  
 9000 RED BRANCH ROAD  
 COLUMBIA, MD. 21045 (301) 991-0000

BEING PARCEL F-1 AS SHOWN ON THE  
 PLAT OF BELTING INDUSTRIAL CENTER  
 PLAT BOOK 24, FOLIO 60, #5030.

**OFFICE / WAREHOUSE  
 FABRICATING FACILITY**  
 PLASTIC PIPING SYSTEMS OF  
 MARYLAND  
 SECTION ONE, AREA TWO  
 BELTING INDUSTRIAL CENTER  
 PARCEL F-1 MCGAW COURT  
 COLUMBIA, MARYLAND  
 ELECTION DISTRICT #6  
 HOWARD COUNTY, MARYLAND

**SDR WATER MANAGEMENT**  
 FILE NO. SDP-84-21  
 PROJECT NUMBER  
 CN-8305  
 DRAWING NUMBER  
 PRELIMINARY ISSUE  
 AUG. 23, 1983  
 CONSTRUCTION ISSUE  
 SCALE  
 AS SHOWN  
 4/7

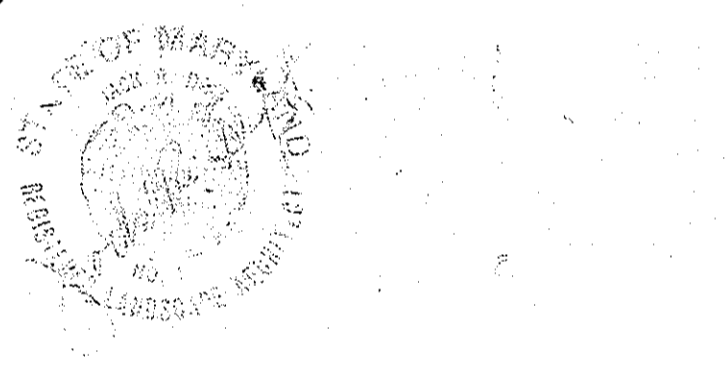
**SDP-84-21c**



**JACK DAFT**  
 LANDSCAPE ARCHITECT

SUITE 1803  
 302 EAST JOPPA ROAD  
 TOWSON, MD. 21204

HOFF, ROSENFELD & WOOLFOLK, INC.  
 CIVIL ENGINEERS & LANDSCAPE ARCHITECTS  
 70 D PAINTERS MILL RD.  
 OWINGS MILLS, MD. 21117



**APPROVED**  
 PLANNING BOARD  
 OF HOWARD COUNTY  
 DATE: 9-21-83  
 [Signature]

**OWNER:**  
 PLASTIC PIPING SYSTEMS OF MD, INC.  
 9000 RED BRANCH ROAD  
 COLUMBIA, MD. 21045 (800) 997-0800

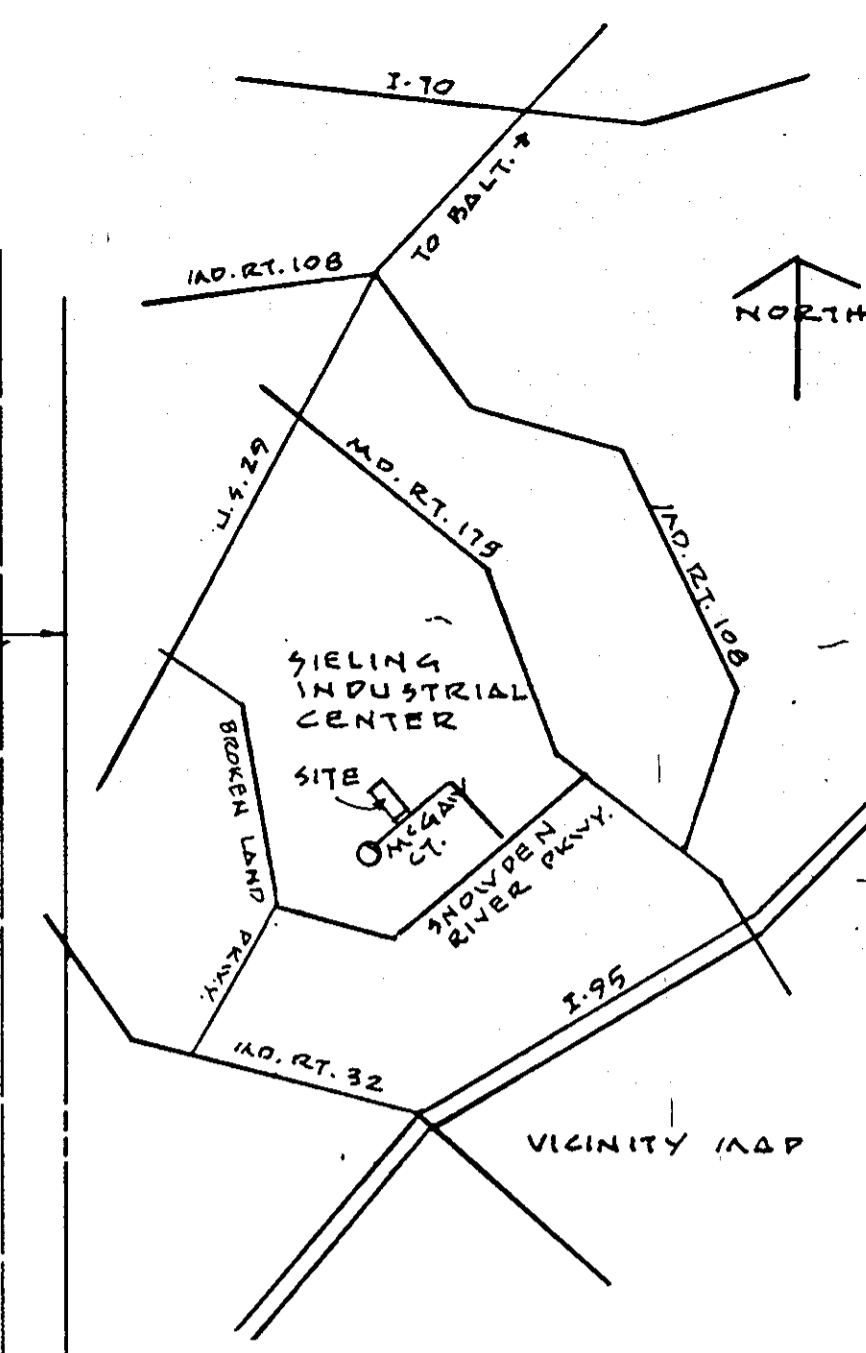
BEING "PARCEL F-1" AS SHOWN ON THE  
 PLAT OF SIELING INDUSTRIAL CENTER,  
 PLAT #9030

**OFFICE / WAREHOUSE  
 FABRICATING FACILITY**

PLASTIC PIPING SYSTEM  
 SECTION ONE, AREA TWO  
 SIELING INDUSTRIAL CENTER  
 PARCEL F-1  
 MCGAW COURT  
 COLUMBIA, MARYLAND  
 EROSION DISTRICT #6  
 HOWARD COUNTY, MARYLAND

**SEDIMENT CONTROL PLAN**  
 FILE NO. 90P-84-21

PROJECT NUMBER: **CV-8305**  
 DRAWING NUMBER: **C 5**  
 PRELIMINARY ISSUE: **AUG 29, 1983**  
 CONSTRUCTION ISSUE  
 SCALE: 1" = 20'  
 SHEET 5 OF 7



**ENGINEER'S CERTIFICATION:**  
 I CERTIFY THAT THIS PLAN FOR EROSION & SEDIMENT CONTROL REPRESENTS A PRACTICAL & WORKABLE PLAN BASED ON MY 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 MUST PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN AS-BUILT PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION.

Jack R. Daft August 20, 83  
 JACK R. DAFT U.A. NO. 1 DATE

**DEVELOPER'S CERTIFICATION:**  
 I CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN AND THAT RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF EROSION & SEDIMENT 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] 9/15/83  
 DEVELOPER DATE

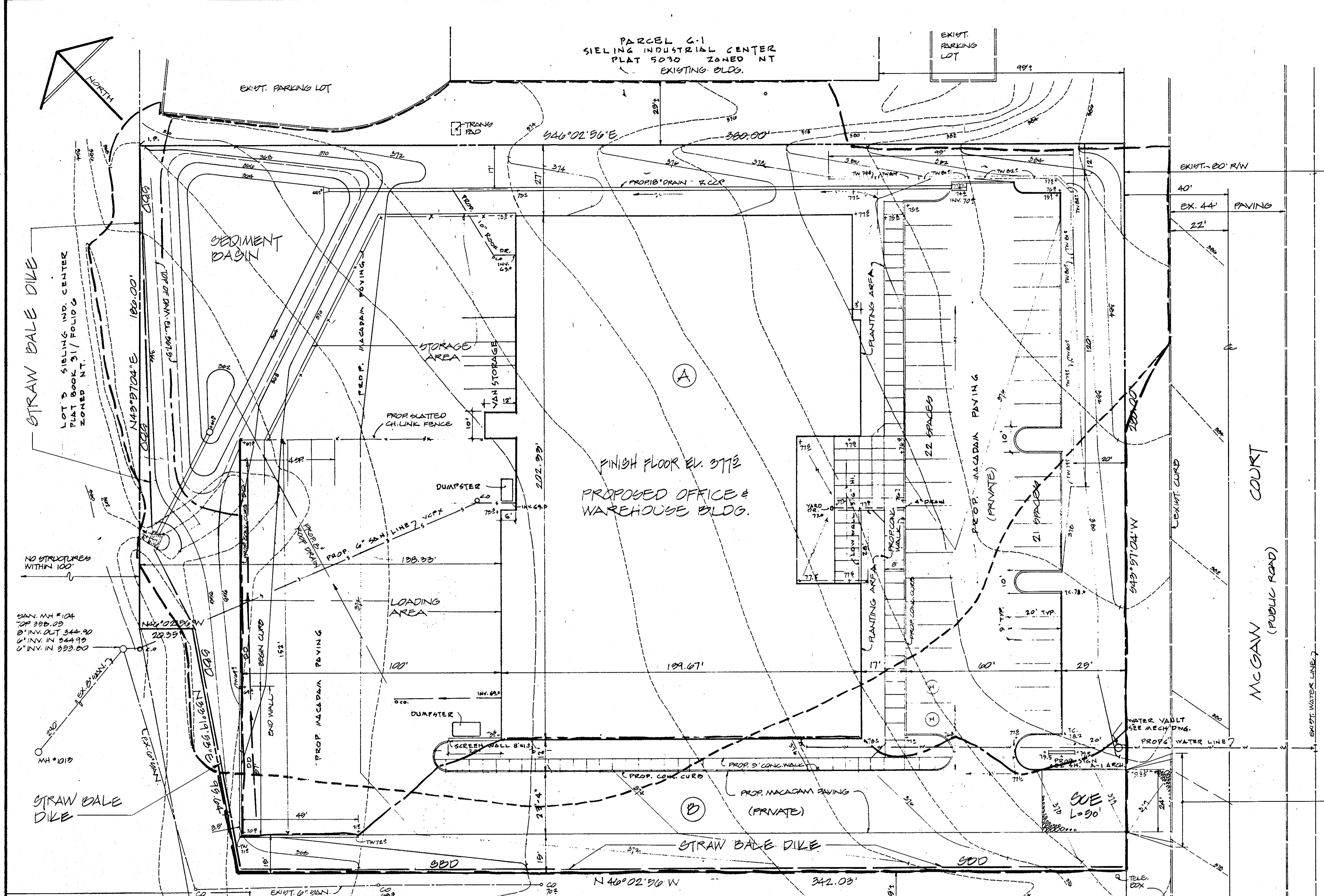
STANDARD INDUSTRIAL ENTRANCE  
 CONNECTED TO CLOSED SECTION ROADWAY  
 TRAFFIC VOLUME 2,100 V.P.H.

THIS PLAN HAS BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEETS THE TECHNICAL REQUIREMENTS FOR SMALL POND CONSTRUCTION, SOIL EROSION & SEDIMENT CONTROL.

[Signature] 11-8-83  
 U.S. SOIL CONSERVATION DISTRICT DATE

THIS DEVELOPMENT PLAN IS APPROVED FOR SMALL POND CONSTRUCTION, SOIL EROSION & SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.

APPROVED: [Signature] 11-8-83  
 HOWARD SOIL CONSERVATION DISTRICT DATE



**APPROVED:**  
 FOR PUBLIC WATER SEWERAGE & STORM DRAINAGE SYSTEMS & ROADS  
 HOWARD CO. DEPT. OF PUBLIC WORKS  
 [Signature] 11-14-83  
 DIRECTOR DATE

**APPROVED:**  
 FOR PUBLIC WATER & PUBLIC SEWERAGE SYSTEMS  
 HOWARD CO. HEALTH DEPT.  
 [Signature] 11/16/83  
 COUNTY HEALTH OFFICER DATE

**APPROVED**  
 HOWARD CO. OFFICE OF PLANNING & ZONING  
 [Signature] 11-17-83  
 PLANNING DIRECTOR DATE

**APPROVED**  
 [Signature] 11-17-83  
 CHIEF  
 DIVISION OF LAND DEVELOPMENT & ZONING ADA.

**LEGEND**

PARCEL OUTLINE	---
EXISTING CURB	---
PROPOSED CURB	---
EXISTING CONTOUR	---
PROPOSED CONTOUR	---
PROPOSED SPOT EL.	+ 77.5
DIRECTION OF SURFACE FLOW	→
PROP. CHAIN LINK FENCE	---
STORMWATER MANAGEMENT	---
OVERALL DRAINAGE AREA	---
EXISTING DRAINAGE AREA	---
DEVELOPED DRAINAGE AREA	---
DRAINAGE AREA NUMBER	(A)

**SITE ANALYSIS**

ZONING	NT
SITE AREA	2.38 ACRES / 103,673 SQ. FT.
OPEN SPACE REQ.	20% - 20,735 SQ. FT.
OPEN SPACE PROVIDED	35% - 35,711 SQ. FT.
BLDG. COVERAGE ALLOWED	40% / 41,469 SQ. FT.
BLDG. COVERAGE SHOWN	25% / 25,972 SQ. FT.
PARKING REQ.	2/1000" = 51 SPACES
PARKING PROVIDED	54 SPACES
PARKING & LOADING AREA	33,940 SQ. FT.
STORAGE AREA	8,050 SQ. FT.
SEDIMENT CONTROL	
TOTAL AREA	2.00 AC.
UNDISTURBED AREA	0.01 AC.
DISTURBED AREA	2.87 AC.
PROP. IMPERVIOUS AREA	1.09 AC.
AREA TO BE REVEGETATED	0.68 AC.

**SEDIMENT BASIN**

USE SWM FACILITY AS SEDIMENT BASIN, INSTALL DENATURING DEVICE (DWA.#50.)

EXISTING DRAINAGE AREA: 2.07 AC.  
 DEVELOPED DRAINAGE AREA: 2.11 AC.  
 VOLUME OF STORAGE REQUIRED: 141.4 CFT.  
 VOLUME PROVIDED @ RIBER CREST (EL. 364.5): 419.8 CFT.

CLEANOUT ELEVATION: 364.5  
 MARK EL. 364.5 ON RISER & CLEAN OUT FACILITY WHEN SILT REACHES THIS EL.

STABILIZATION

PERMANENT SEEDING

All disturbed areas shall be stabilized as follows:
Seedbed Preparation: Loosen upper 3 inches of soil by raking, disking or other acceptable means before seeding.

Soil Amendments: Apply 2 tons per acre dolomitic limestone (92 lbs./1000 sq. ft.) and 600 lbs. per acre 0-20-20 fertilizer (14 lbs./1000 sq. ft.).

Seeding: For the periods March 1 thru April 30, and August 1 thru October 15, seed with 60 lbs. per acre Kentucky 31 Tall Fescue (1.4 lbs./1000 sq. ft.).

Seeding For Storm Water Management Ponds Only: For the periods March 1 thru April 30, and August 1 thru October 15, seed with 87 lbs. per acre Kentucky 31 Tall Fescue (2.0 lbs./1000 sq. ft.).

Mulching: Apply 1.5 to 2 tons per acre (70 to 90 lbs./1000 sq. ft.) of unrotted small grain straw immediately after seeding.

Maintenance: Inspect all seeded areas and make needed repairs, replacements and re-seeding.

TEMPORARY SEEDING

Seedbed Preparation: Loosen upper 3 inches of soil by disking, raking or other acceptable means before seeding.

Soil Amendments: Apply 600 lbs. per acre of 10-20-10 fertilizer (15 lbs./1000 sq. ft.).

Seeding: For periods March 1 thru April 30, and from August 15 thru November 15, seed with 2.5 bushels per acre annual ryegrass (3.2 lbs./1000 sq. ft.).

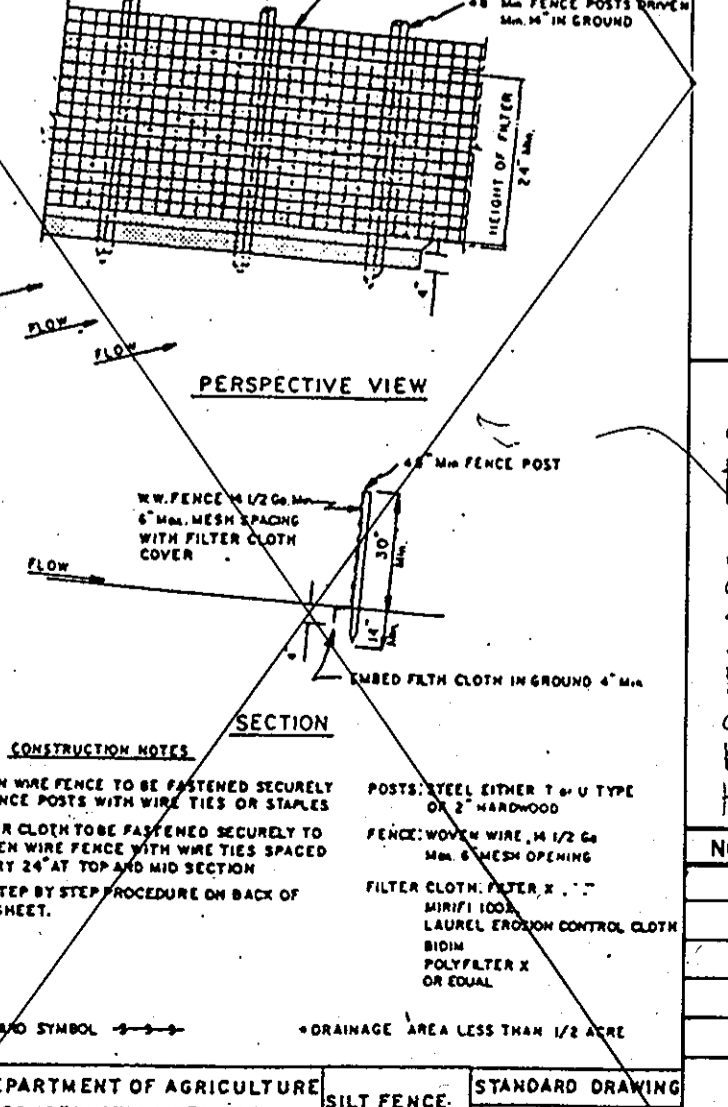
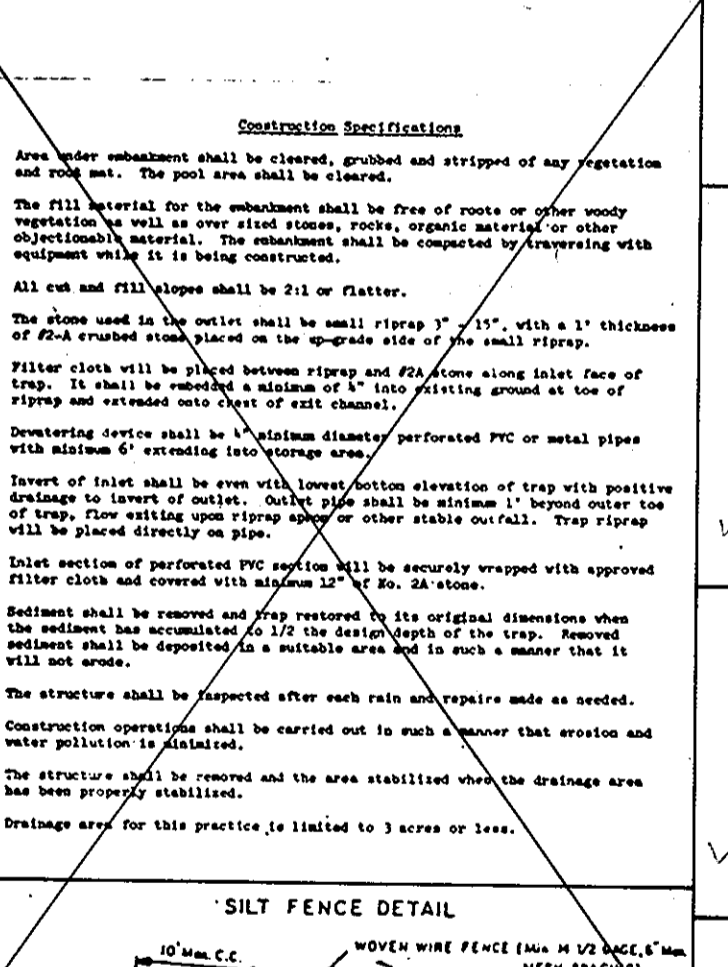
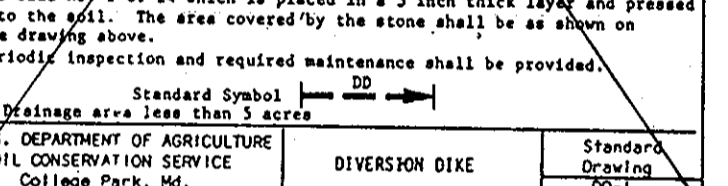
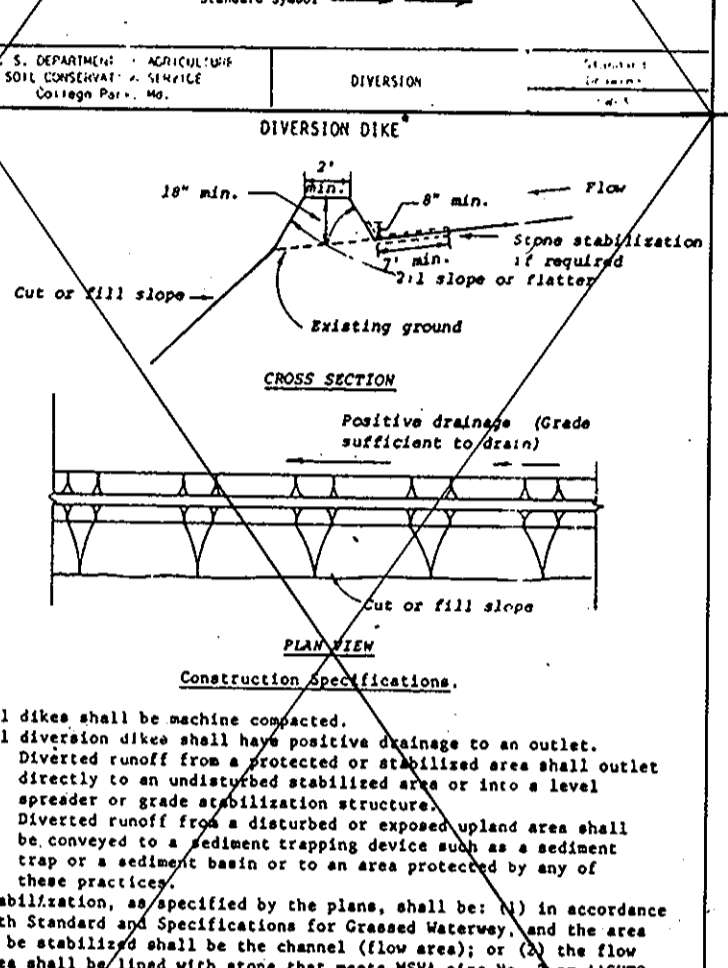
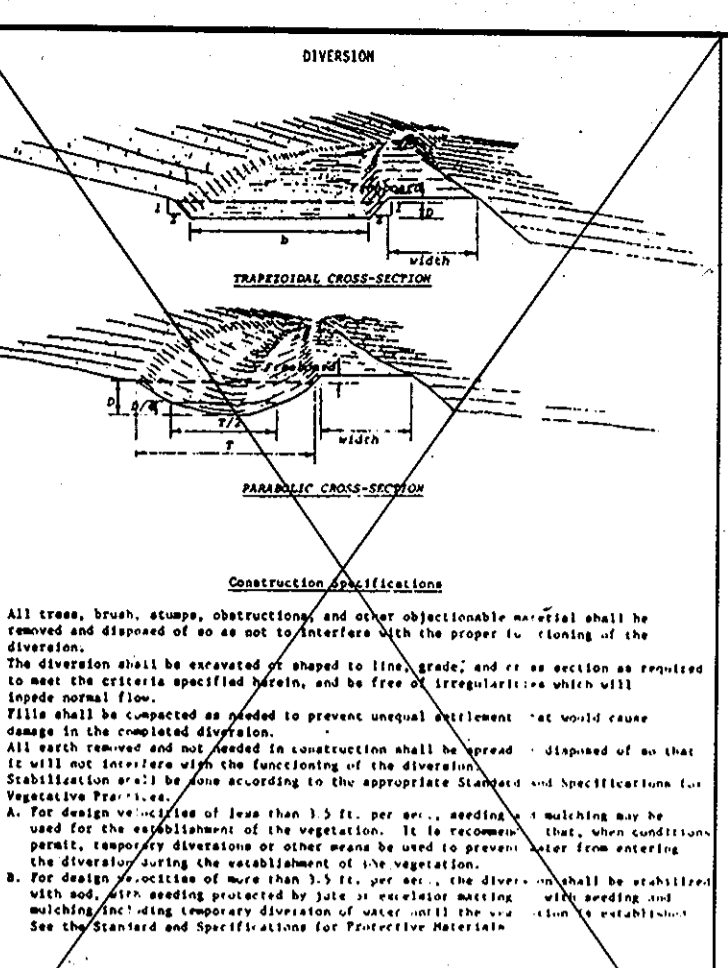
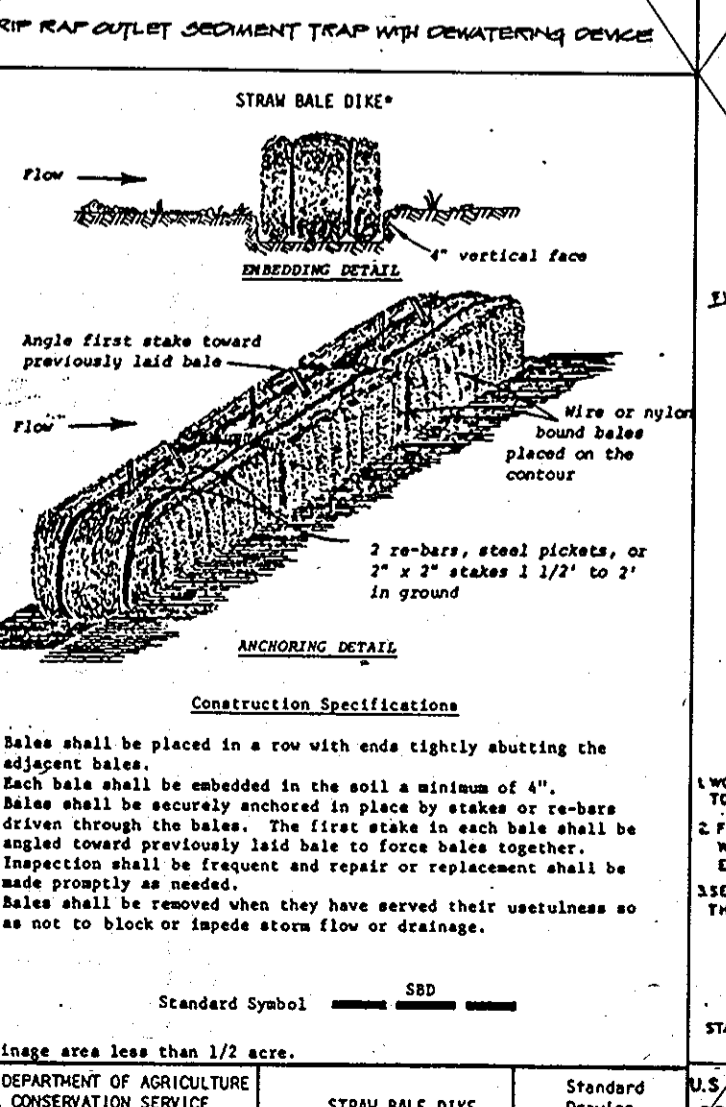
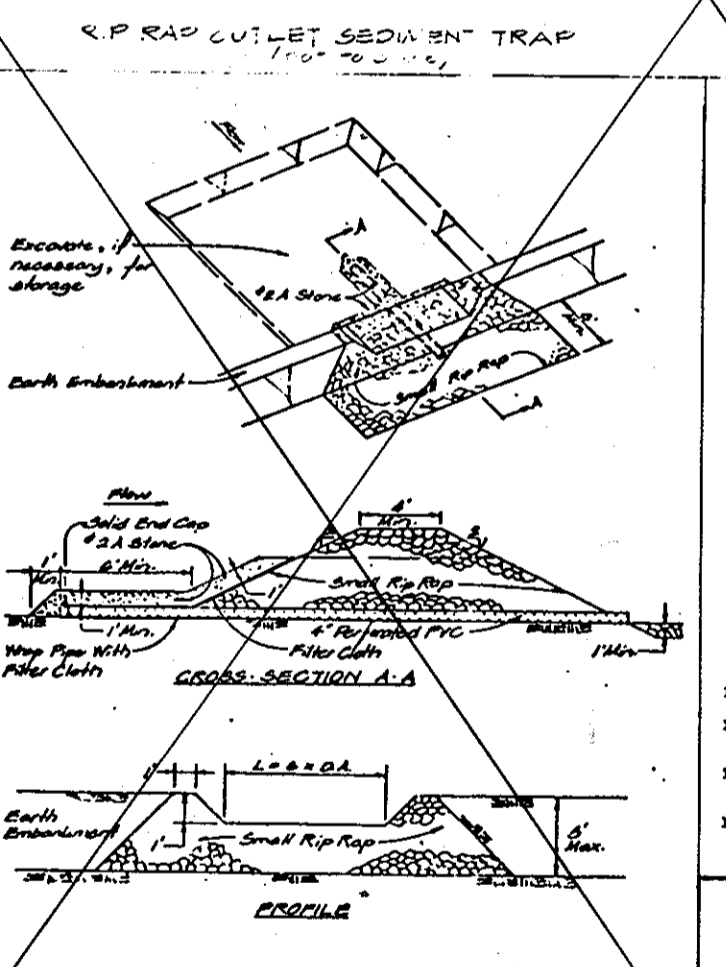
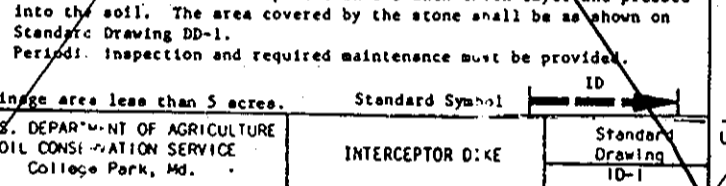
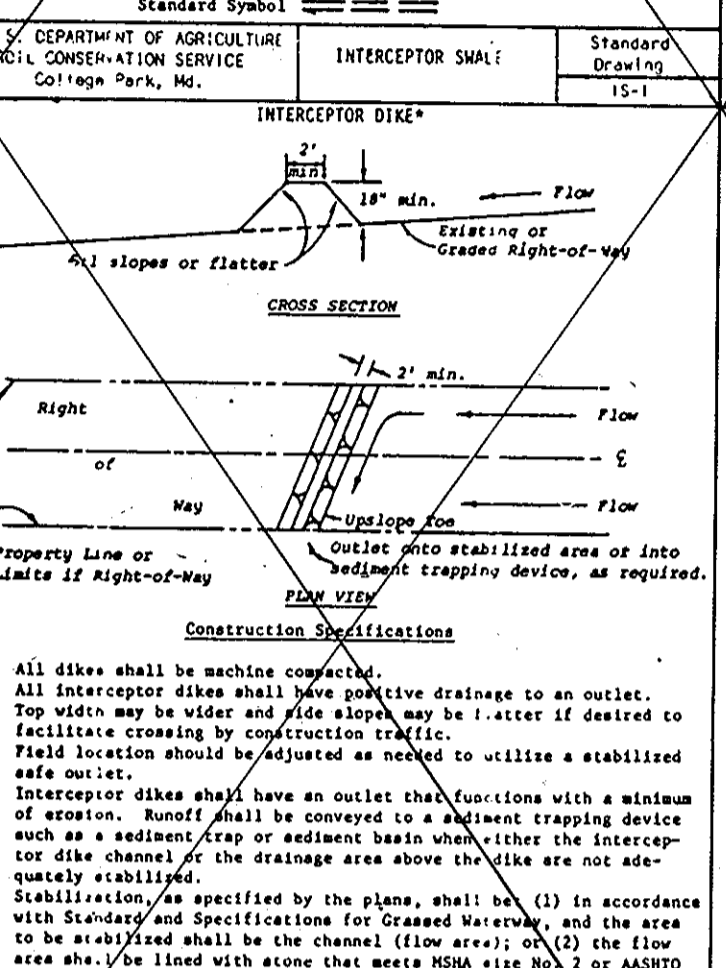
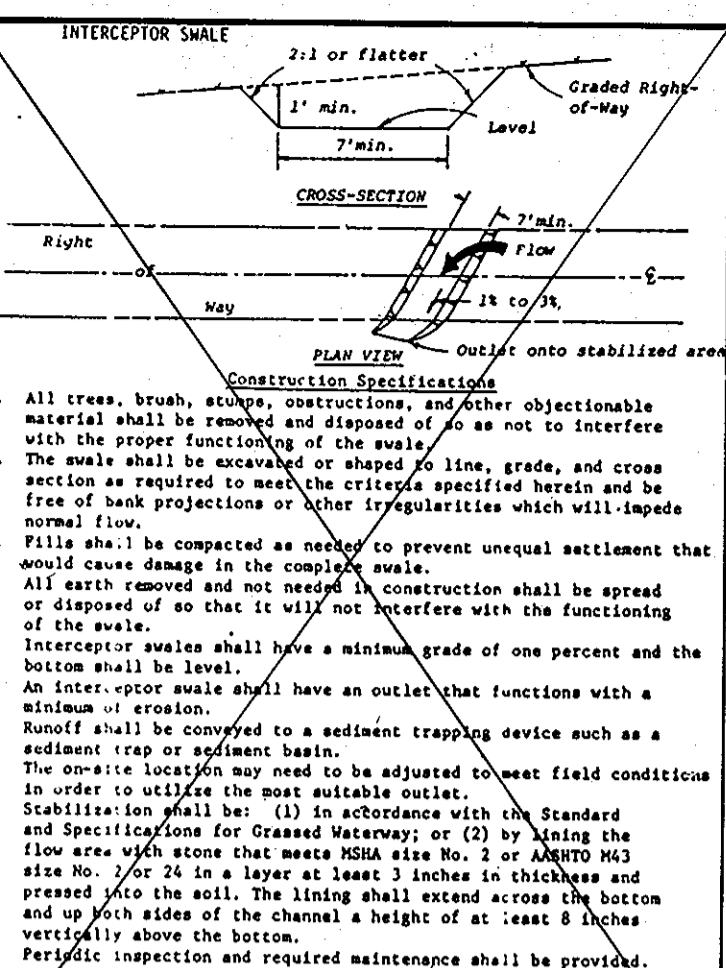
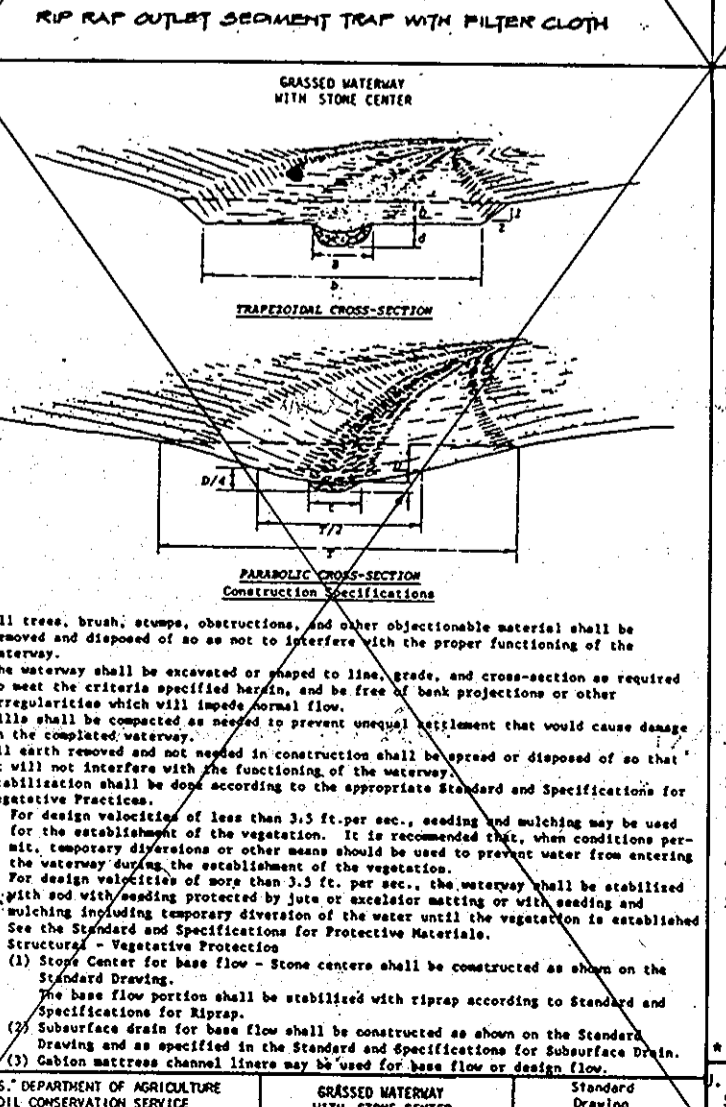
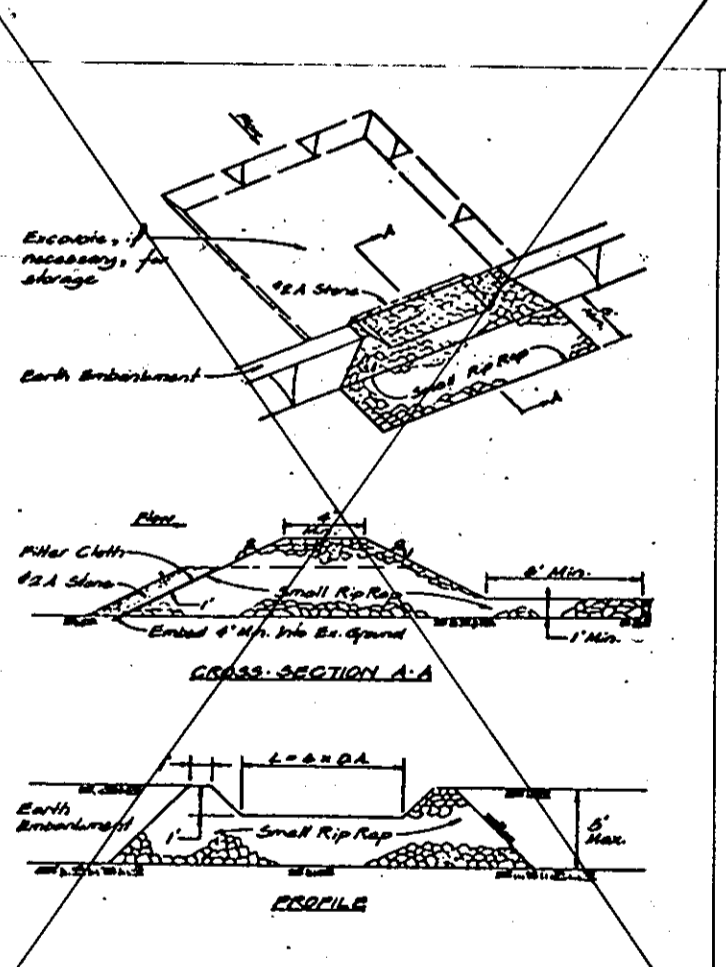
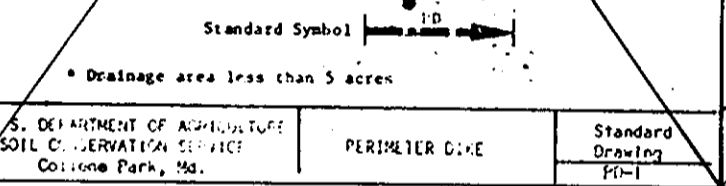
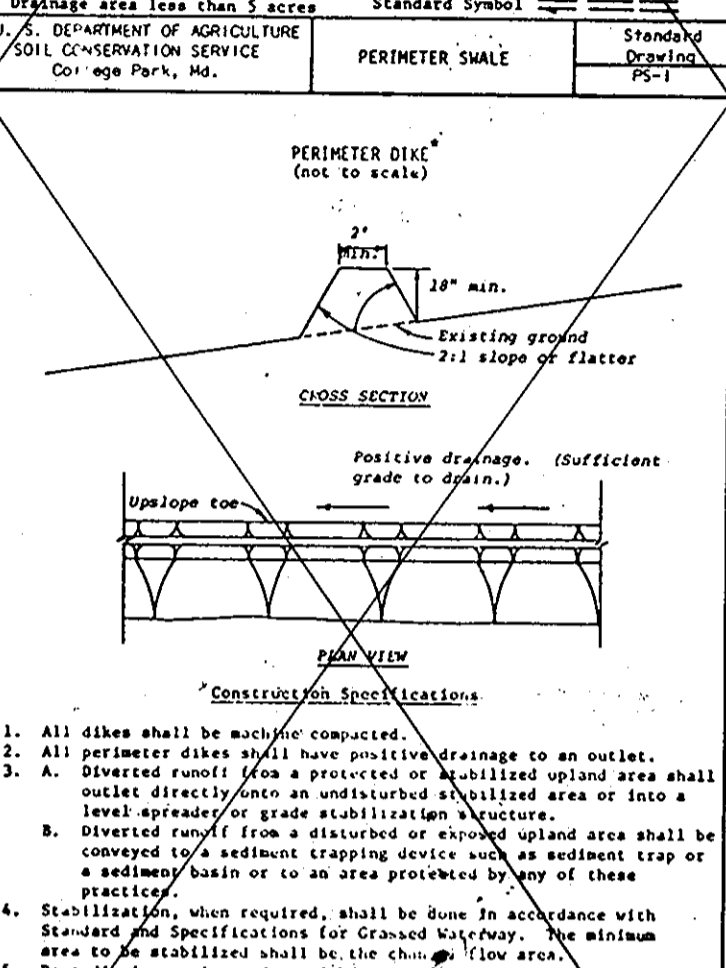
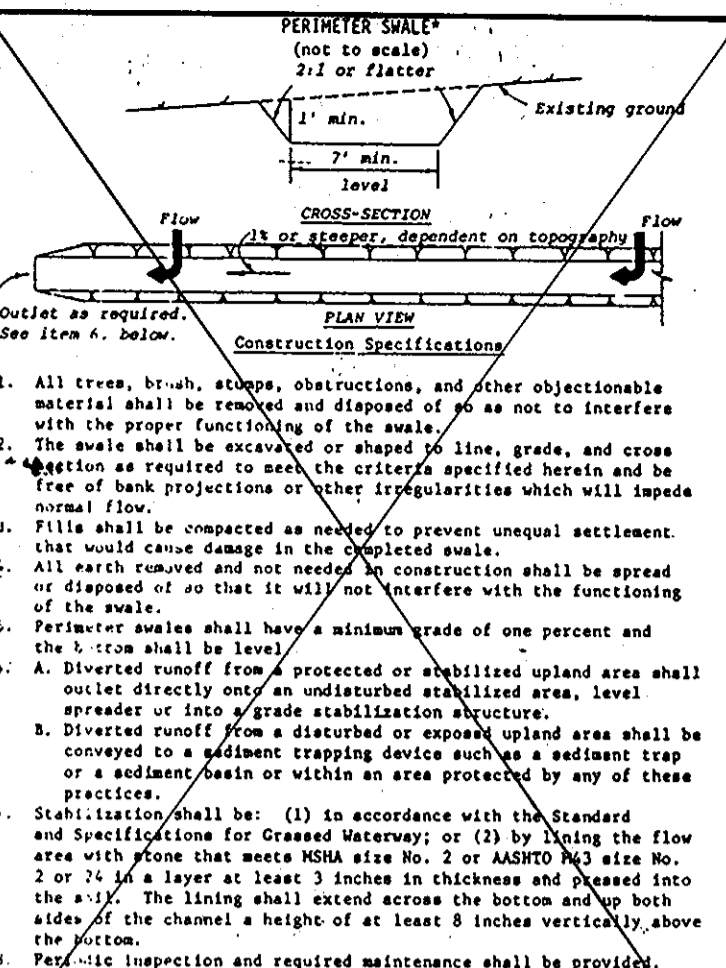
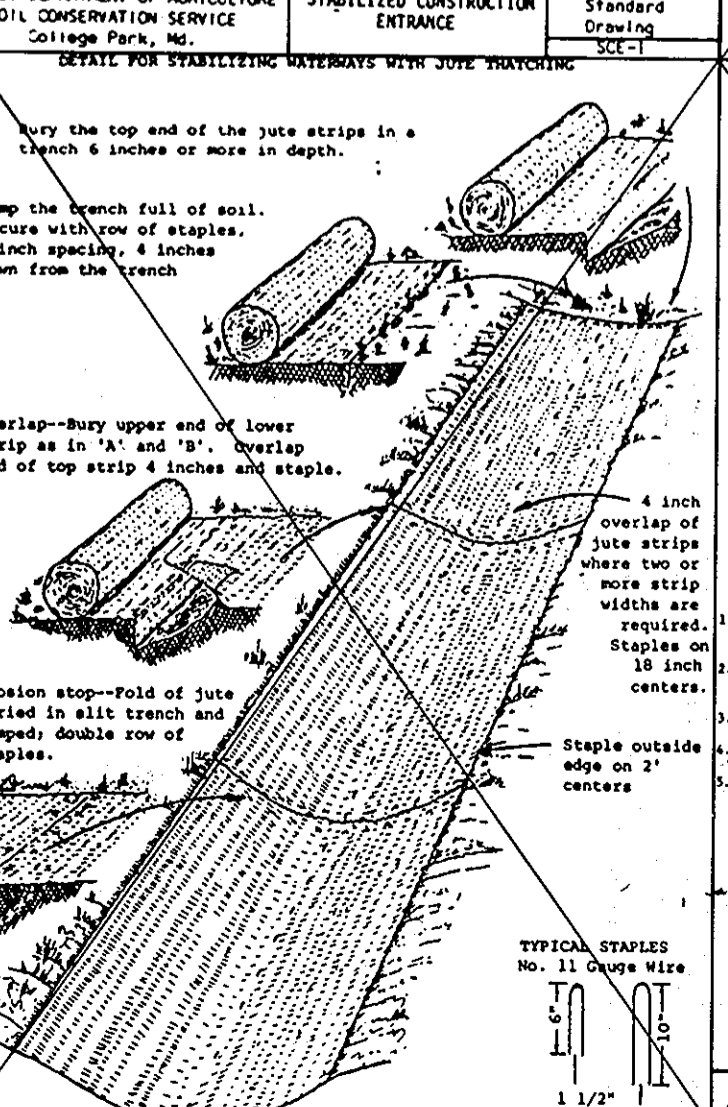
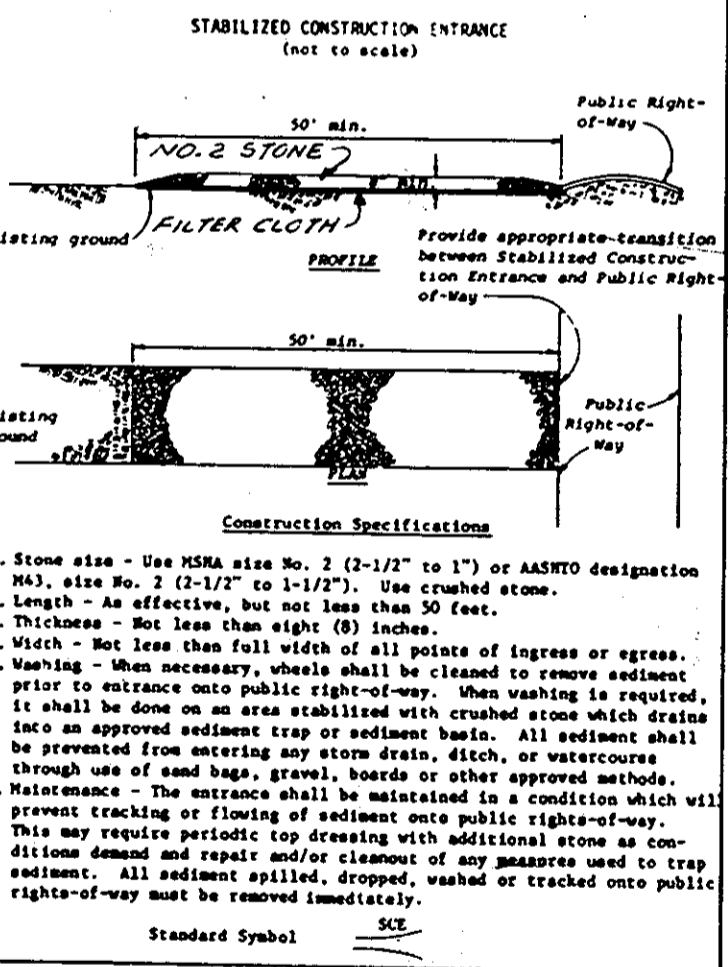
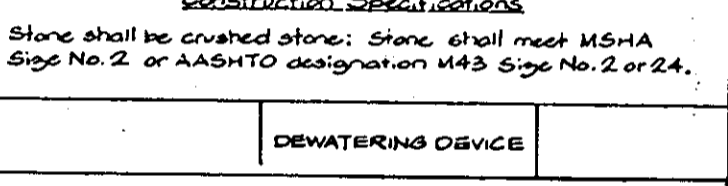
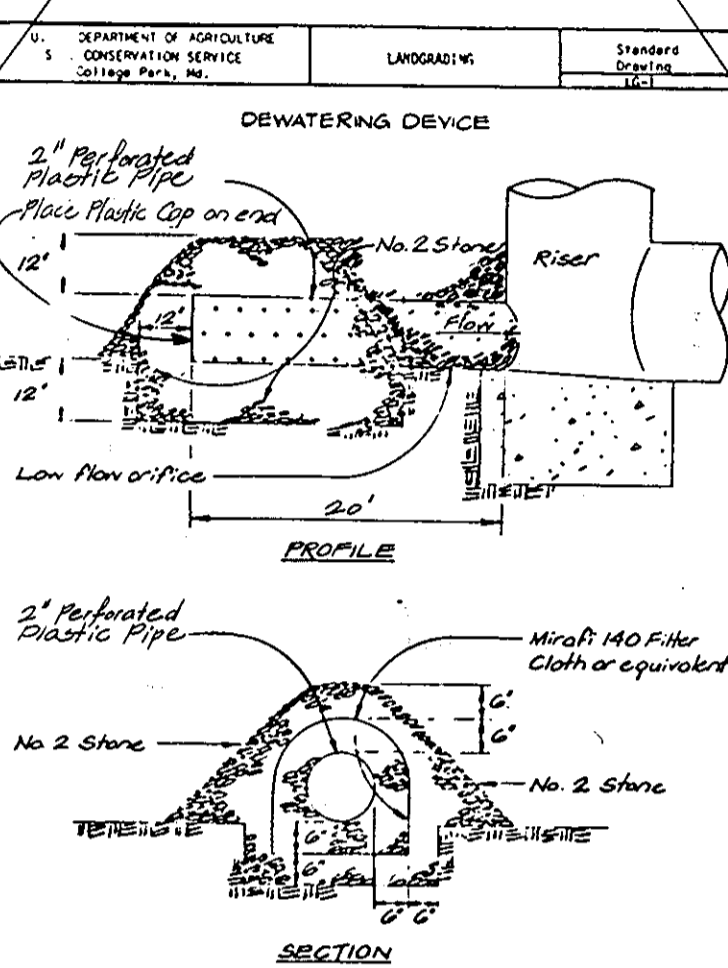
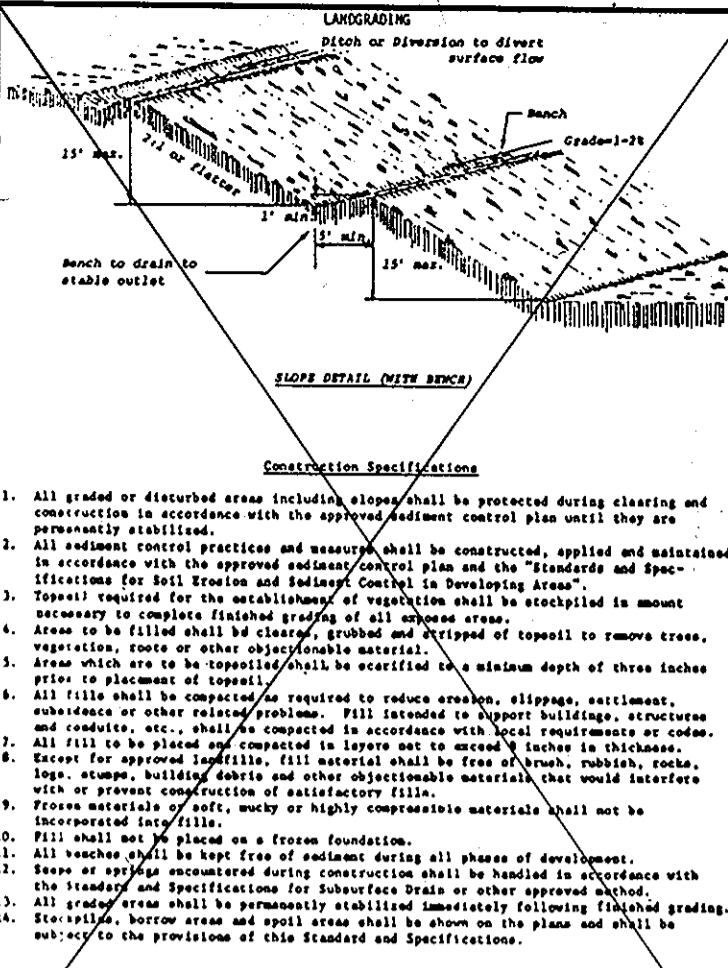
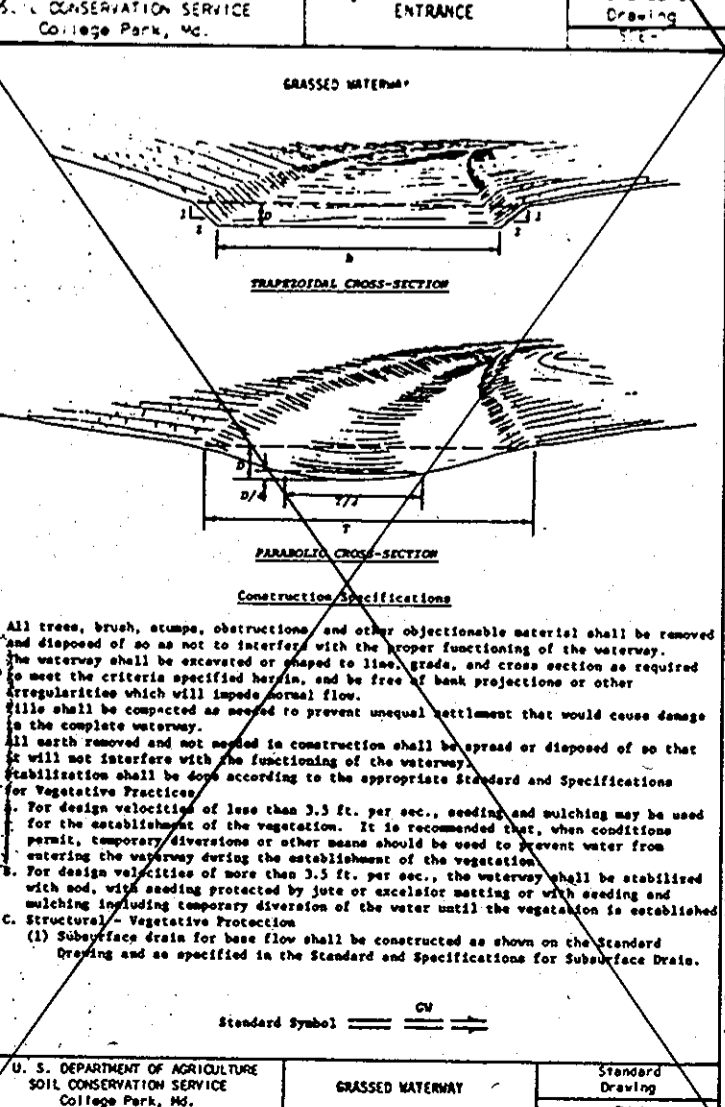
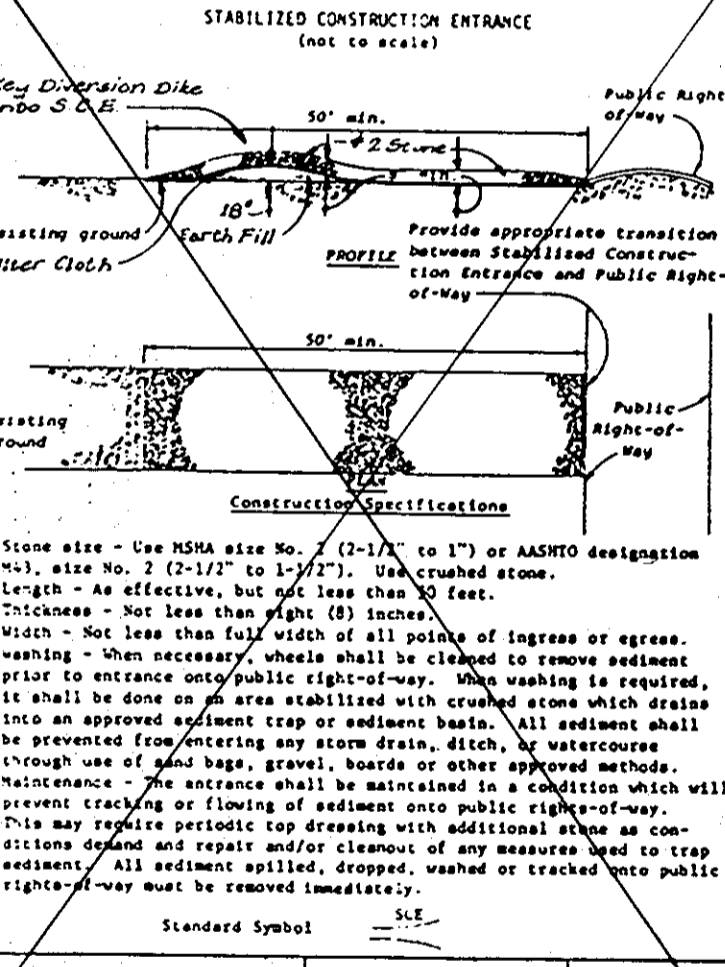
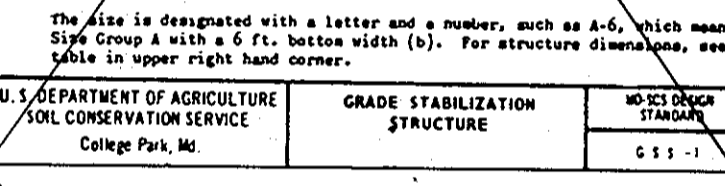
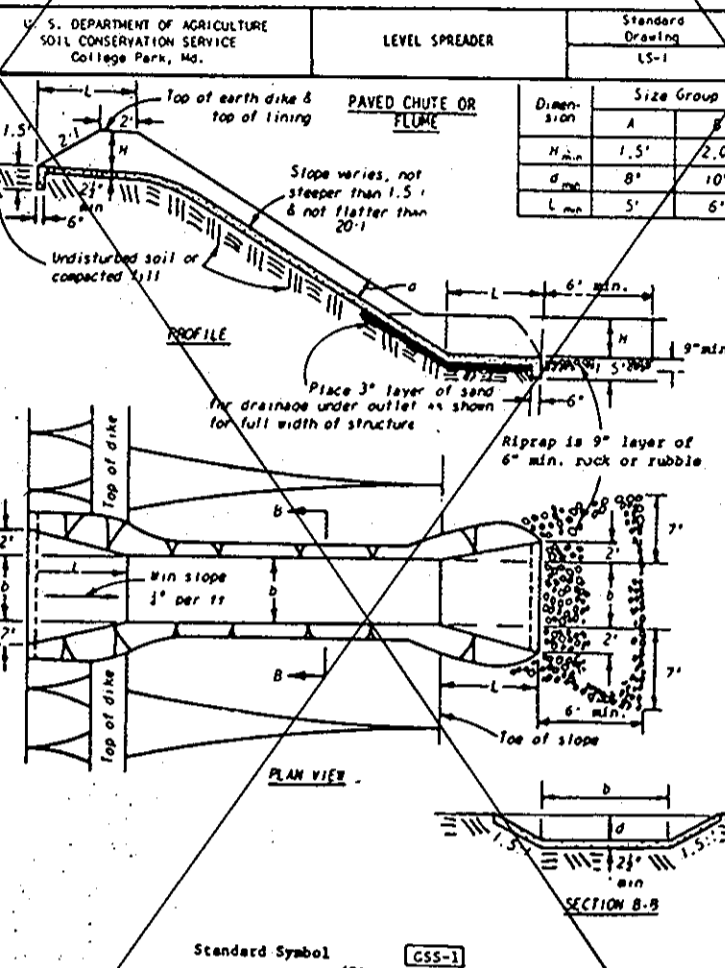
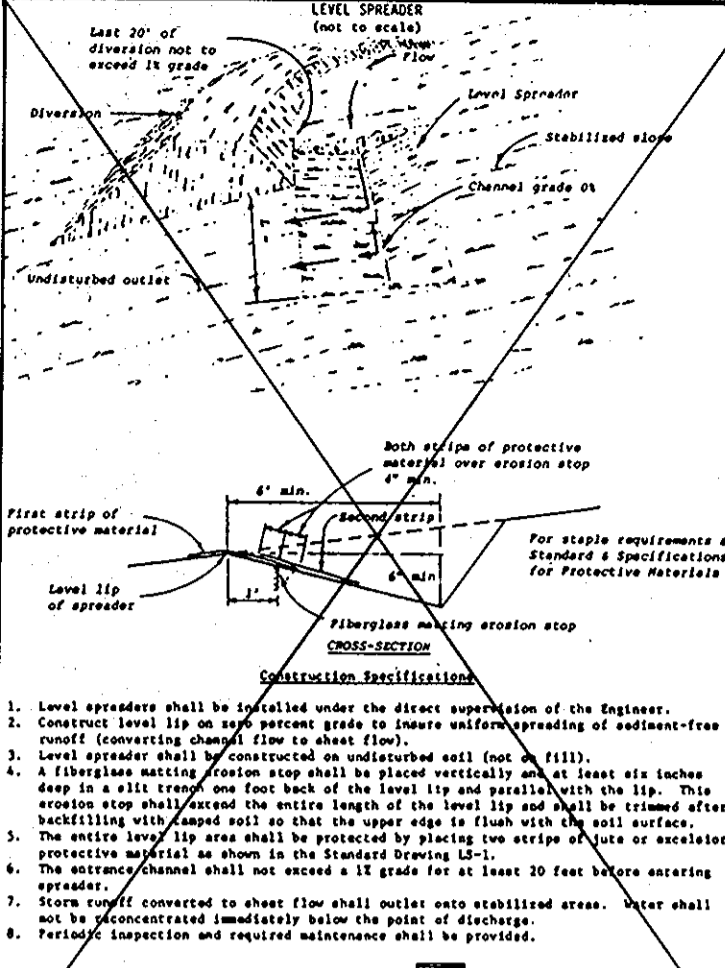
Mulching: Apply 1.5 to 2 tons per acre (70 to 90 lbs./1000 sq. ft.) of unrotted small grain straw immediately after seeding.

SOD

Specifications: Sod shall be "KY-31" Tall Fescue or Kentucky Bluegrass/Red Fescue mixture or approved equal.

Site Preparation: Where soil is acid or composed of heavy clays, ground limestone shall be spread at the rate of 100 lbs./1000 sq. ft.

Sod Installation: The first row of sod shall be laid in a straight line with subsequent rows placed parallel to and tightly wedged against each other.



- GENERAL NOTES
1. All work shall be accomplished in accordance with Soil Conservation Service's "Standards and Specifications for Soil Erosion and Sediment Control in Developing Areas", July, 1975, and this plan of Sediment Control approved by the HOWARD Soil Conservation District and the Department of Public Works.

- SEQUENCE OF OPERATIONS
1. NOTIFY HOWARD COUNTY BUREAU OF INSPECTIONS & PERMITS, SEDIMENT CONTROL DIVISION AT 992-2436 AT LEAST 3 WORKING DAYS BEFORE BEGINNING ANY WORK.

APPROVED PLANNING BOARD OF HOWARD COUNTY
DATE 9-21-83

DEVELOPER'S CERTIFICATION
I/We hereby certify that all responsible personnel involved in the construction project will have a certificate of attendance at a Department of Natural Resources approved training program for the control of sediment and erosion before beginning the project.

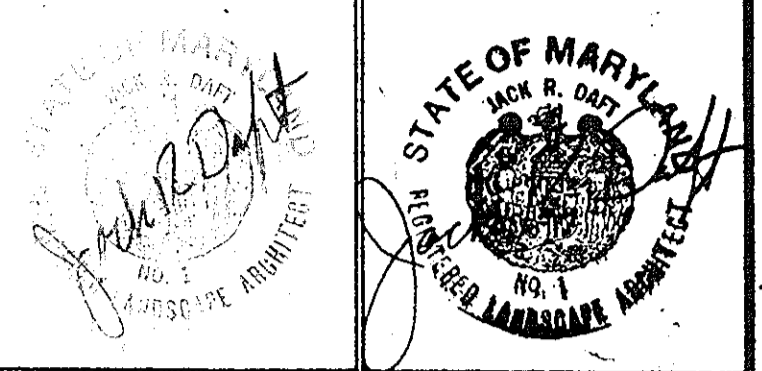
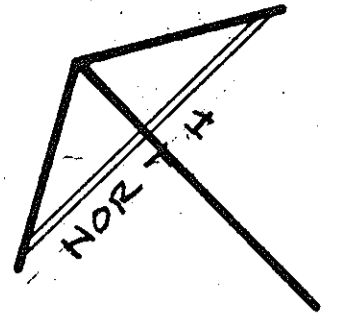
OWNER'S CERTIFICATION
I hereby certify that all clearing and grading will be accomplished in accordance with this plan of Sediment Control.

ENGINEER'S CERTIFICATION
I hereby certify that this plan of Sediment Control has been prepared by or under my supervision in accordance with "Standards and Specifications for Soil Erosion and Sediment Control in Developing Areas", S.C.S. July, 1975, and meets the minimum standards of the HOWARD Soil Conservation District.

OFFICE / WAREHOUSE FABRICATION FACILITY
JACK DAFT LANDSCAPE ARCHITECT
SUITE 1003 302 EAST JOPPA ROAD TOWSON, MD 21204

APPROVED FOR PUBLIC WATER, PUBLIC DRAINAGE & STORM DRAINAGE SYSTEMS AND ROADS
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

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



**JACK DAFT**  
 LANDSCAPE ARCHITECT

SUITE 1803  
 302 EAST JOPPA ROAD  
 TOWSON, MD. 21284

**APPROVED**  
 PLANNING BOARD  
 OF HOWARD COUNTY

DATE: 9-21-83  
*[Signature]*

**LEGEND**

- DECIDUOUS TREE
- EVERGREEN TREE
- SHRUB
- GROUND COVER / SHRUB

**KEY**  
 60 (4-1) QUANTITY KEY NO.

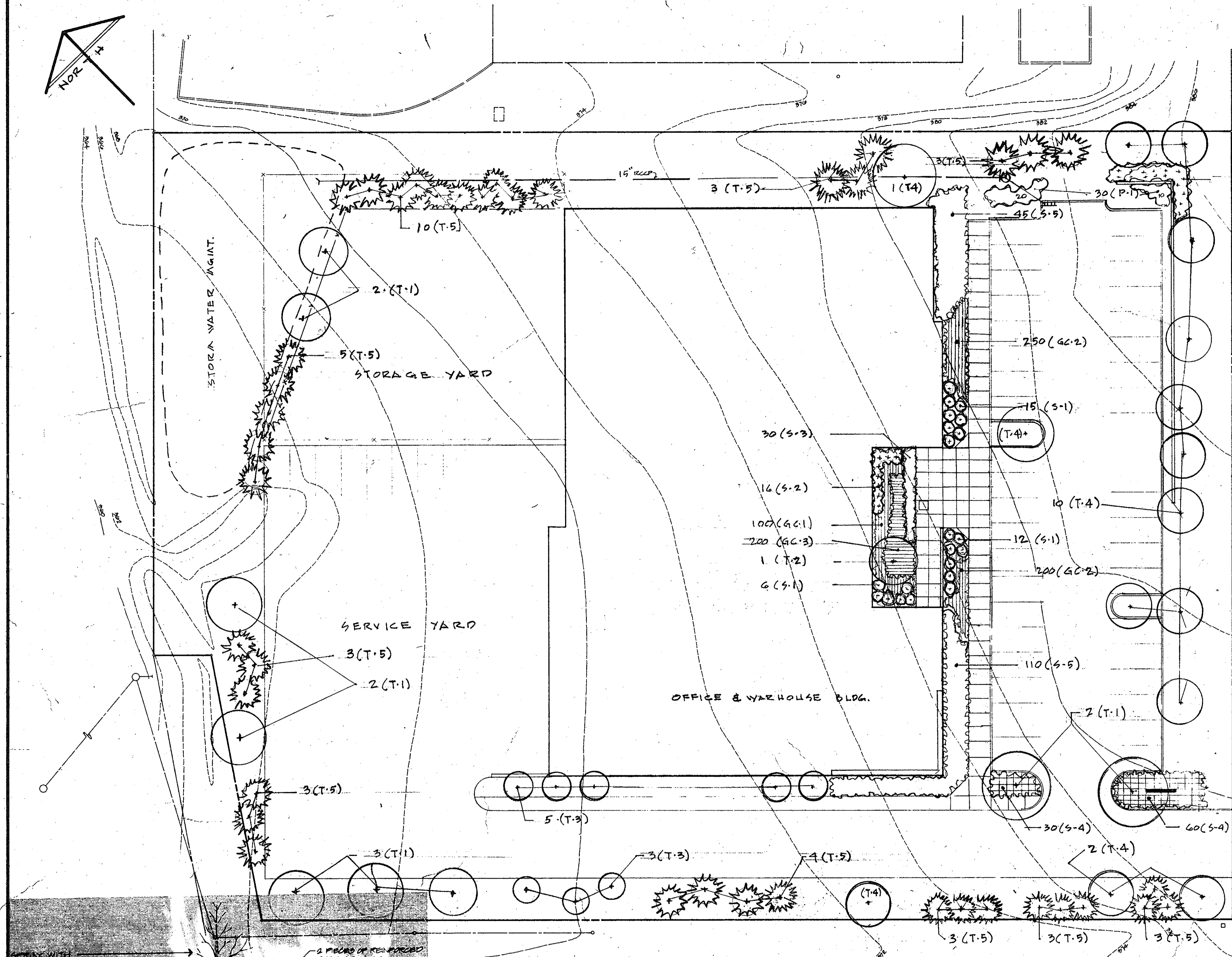
**OWNER:**  
 PLASTIC PIPING SYSTEMS OF MD, INC.  
 9033 BED BRANCH ROAD  
 COLUMBIA, MD. 21045 (301) 997-0800

**OFFICE / WAREHOUSE FABRICATION FACILITY**

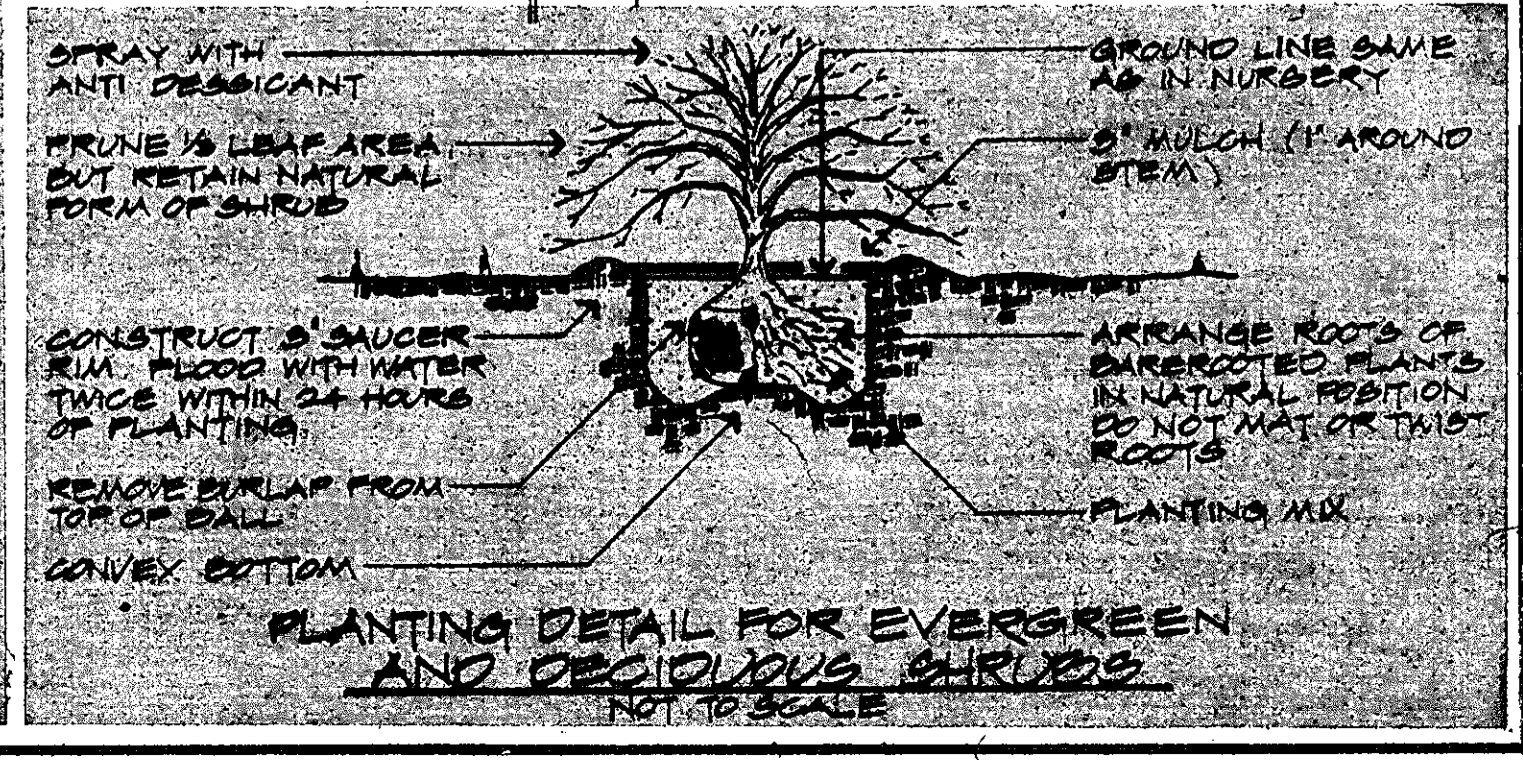
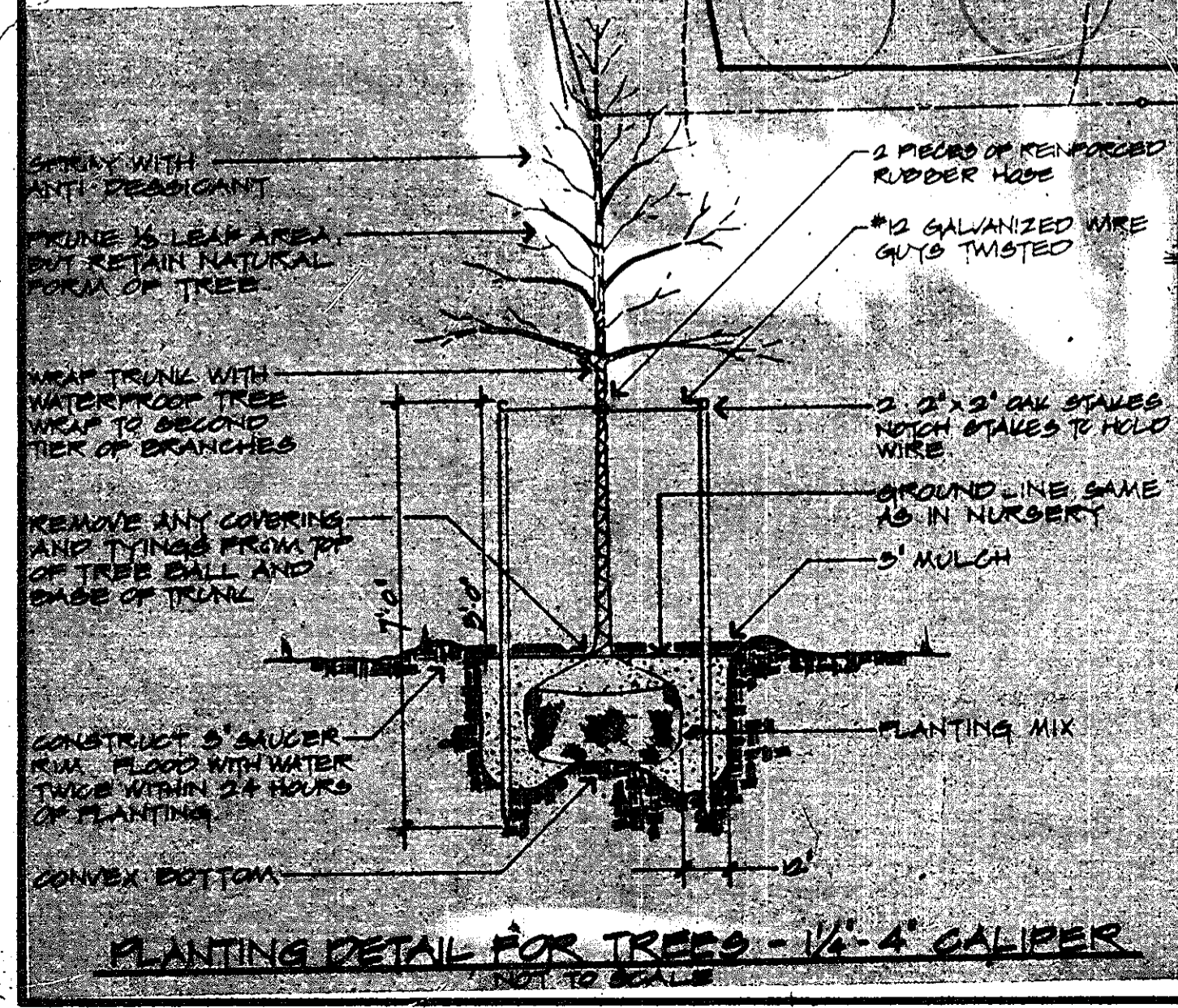
PLASTIC PIPING SYSTEMS  
 OF MARYLAND  
 SECTION ONE, AREA TWO  
 SELING INDUSTRIAL CENTER  
 PARCEL F-1 MCGAW COURT  
 COLUMBIA, MARYLAND  
 ELECTION DISTRICT #00  
 HOWARD COUNTY, MARYLAND

**PLANTING PLAN**

PROJECT NUMBER <b>GV-8305</b>	DRAWING NUMBER <b>11-17-83</b>
PRELIMINARY ISSUE <b>11-20-1983</b>	
CONSTRUCTION ISSUE	
SCALE <b>1" = 20'</b>	7 OF 7



Key	Quan.	Botanical Name Common Name	Size	Root	Remarks
T-1	13	Acer Rubrum Red Maple	2 1/2-3" cal	B&B	
T-2	1	Cornus lousa Kousa Dogwood	8-10' ht.	B&B	
T-3	8	Crataegus Phaenopyrum Washington Hawthorne	8-10' ht.	B&B	Tree Form
T-4	10	Sophora Japonica Schohar tree	2 1/2-3" cal.	B&B	
T-5	40	Pinus Strobus White pine	6-8' ht.	B&B	
S-1	33	Abelia Graciflora Glossy Abelia	18-24" spd.	can	
S-2	16	Azalea Delaware Valley White	15-18" spd.	B&B	
S-3	30	Azalea Crimped	6-10" spd.	can	
S-4	130	Coloneaster Dammeri Skoogholm Christmas Carpet Cotoneaster	12-15" spd.	can	
S-5	155	Juniperus Horizontalis Plumosa Andorra Juniper	18-24" spd.	B&B	
GC-1	100	Hypericum Calycinum St. Johns Wort	1 qt.	can	
GC-2	450	Liriope Spicata	1 qt.	can	
GC-3	200	Plumbago Cera. Plumb. Leadwort	1 qt.	can	
P-1	30	Hemerocallis Hyperion Day Lily	2 qt.	can	



**APPROVED:**  
 FOR PUBLIC WATER, PUBLIC SEWERAGE & STORM  
 DRAINAGE SYSTEMS AND ROADS  
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

*[Signature]* 11-17-83  
 DIRECTOR

**APPROVED:**  
 FOR PUBLIC WATER & PUBLIC SEWERAGE SYSTEMS  
 HOWARD COUNTY HEALTH DEPARTMENT

*[Signature]* 11-16-83  
 CHIEF BUREAU OF ENGINEERING

**APPROVED:**  
 HOWARD CO. OFFICE OF PLANNING & ZONING

*[Signature]* 11-17-83  
 PLANNING DIRECTOR

*[Signature]* 11-17-83  
 CHIEF OF LAND DEVELOPMENT & ZONING ADMIN.