

VICINITY MAP
SCALE: 1" = 2000'
HOWARD COUNTY GEODETIC CONTROL STATIONS

SITE NOTES

Owner: Acme Paper & Supply Co., Inc.
Election District: 6th
Total Area of Site: 16.928 Ac
Area of Plan Submission: 6.843 Ac
Existing Zoning: M-2
Deed Reference: L. 1320 F. 117 & L. 1320 F. 119
Plot No: 6287
Tax Map: 48
Office of Planning & Zoning Files: SDP 78-92 and 85-97 F-77-167 F-85-77 F-99-190 - Plat 14-112

Bulk Regulations

Structure & Use Setbacks:
50' From external public street Right-of-Way
50' From internal public street Right-of-Way

Fences & Parking uses:
30' From external public street Right-of-Way
10' From internal public street Right-of-Way

Area of Land Acquisition: 36,110 Sq. Ft. or 0.83 Ac. *
Existing Building 77,880 Sq. Ft. + 44,913 S.F. = 122,793 S.F. Δ
Proposed Building Addition: 41,520 Sq. Ft. *
MEZZANINE AREA ABOVE 4,692 S.F. Δ
Parking Requirements: 24,025 Total
0.5 Spaces per 1,000 Sq. Ft. or 222 Spaces, 50' Prop Provided
3

Proposed Parking Spaces:
Standard: 96
Handicap: 4
(Note: Main entrance for handicap access is marked ENT.(HC) thus as shown on plan)
Proposed Loading Spaces: 14

Exterior Use: Warehouse
Proposed Use: Warehouse
Limit of Disturbance: 4.0 Ac.
BM location bonnet bolt on fire hydrant at intersection of Stayton Drive and Sandy Court on Stayton Drive EL-226.23
Forest Conservation- Exempt, a declaration of intent (single lot clearing less than 40,000 s.f.) has been filed for this development.
The redline revision to SDP-77-30, Parcel E was completed on 4-28-00.

LEGEND

- 12" RCP EX. SWM PIPE
- C.B. CATCH BASIN
- IPF IRON PIPE FOUND
- SDMH STORM DRAIN MANHOLE
- X-X- EX. CHAIN LINK FENCE
- HEAVY DUTY PAVING
- LIGHT DUTY PAVING
- BENCH MARK

SHEET INDEX

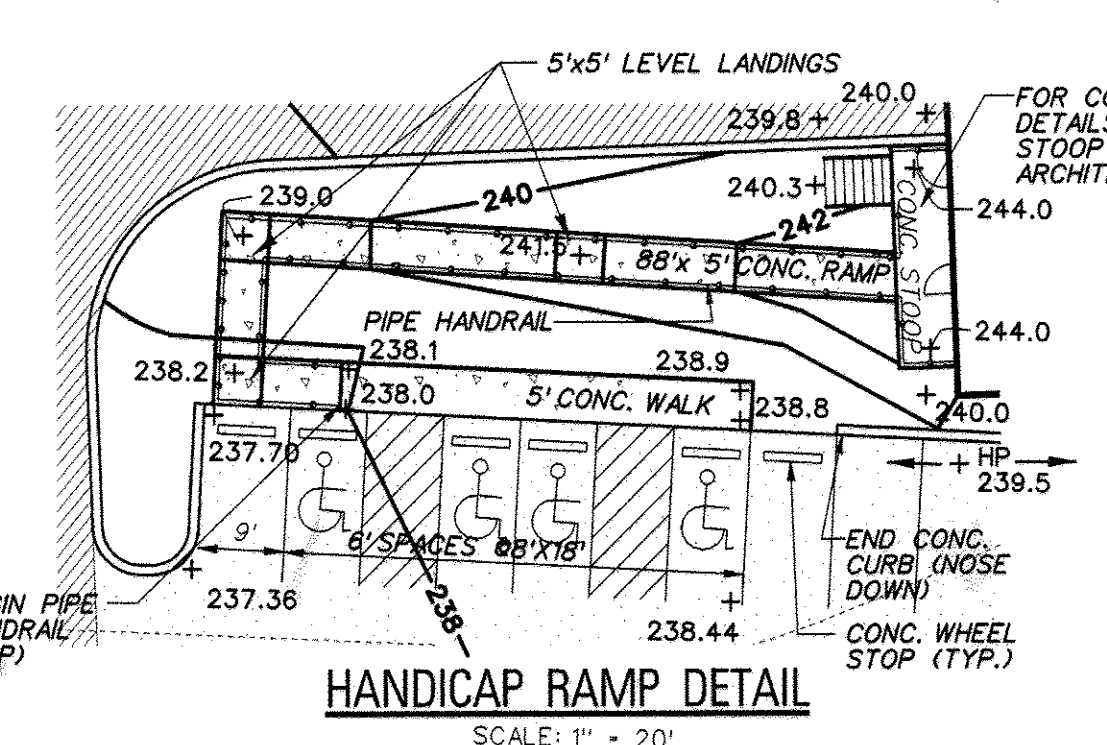
SHEET NO.	SHEET NAME
1	SITE DEVELOPMENT PLAN 1
2	SITE DEVELOPMENT PLAN 2
3	SITE DETAILS
4	STORMWATER MANAGEMENT PROFILES
5	STORMWATER MANAGEMENT PROFILES & NOTES
6	STORMWATER MANAGEMENT DETAILS
7	STORMWATER PROFILES & DETAILS
8	STORMWATER PROFILES & DETAILS
9	STORMWATER DRAINAGE AREA MAP
10	EXISTING DRAINAGE AREA MAP
11	PROPOSED DRAINAGE AREA MAP
12	SEDIMENT CONTROL PLAN 1
13	SEDIMENT CONTROL PLAN 2
14	SEDIMENT CONTROL DETAILS
15	SEDIMENT CONTROL NOTES & DETAILS
16	LANDSCAPE PLAN 1
17	LANDSCAPE PLAN 2
18	LANDSCAPE REQUIREMENT SCHEDULES

ADDRESS CHART

LOT/PARCEL #	STREET ADDRESS
D-2	8229 SANDY COURT
E-1	8231 STAYTON DRIVE

PERMIT INFORMATION CHART

Subdivision Name:	Section/Area:	Lot/Parcel #:
Baltimore/Washington Industrial Park		D-2 & E-1
Plot # 6r L.1320 F.117,119 Block # C Zoning M-2	Tax Map 48 Elect. Distr. 6	Census Tract 6661.01
Water Code B02	Sewer Code 4201900	



APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS IN CONFORMANCE WITH THE MASTER PLAN OF WATER AND SEWERAGE FOR HOWARD COUNTY.

HOWARD COUNTY HEALTH OFFICER _____ DATE _____

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.

CHIEF, DEVELOPMENT ENGINEERING DIVISION
DATE 5/18/00

CHIEF, DIVISION OF LAND DEVELOPMENT
DATE 5/18/00

DIRECTOR
DATE 5/19/00

APPROVED: FOR STORM DRAINAGE SYSTEMS AND PUBLIC ROADS, PUBLIC SEWAGE AND WATER, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS.

DIRECTOR
DATE 4-26-00

CHIEF, BUREAU OF ENGINEERING
DATE _____

BY THE DEVELOPER:

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 THE 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 INSPECTIONS BY THE HOWARD COUNTY SOIL CONSERVATION DISTRICT.

DEVELOPER
DATE 4-26-00

BY THE ENGINEER:

I CERTIFY THAT THIS PLAN FOR POND CONSTRUCTION, EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS. THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT. I HAVE NOTIFIED THE DEVELOPER THAT HE/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
DATE 4-26-00

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.

NATURAL RESOURCES CONSERVATION
DATE 5/18/00

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

HOWARD SOIL CONSERVATION DISTRICT
DATE 5/18/00

REVISIONS

DATE	REVISIONS
11/09/99	REGRADED POND ACCESS & EMERGENCY SPILLWAY
12/15/99	REVISED HANDICAP ACCESS DETAIL
7/25/00	ADDED 4,692 SF MEZZANINE



KCI Technologies, Inc.
14409 Greenview Drive, Suite 102
Laurel, Maryland 20708
(301) 953-1821 (410) 792-8086
fax: (410) 792-7419

PREPARED FOR:
ACME PAPER AND SUPPLY CO.
8229 SANDY COURT
SAVAGE, MD 20763

SITE DEVELOPMENT PLAN

Plot # 1412

ACME PAPER & SUPPLY COMPANY

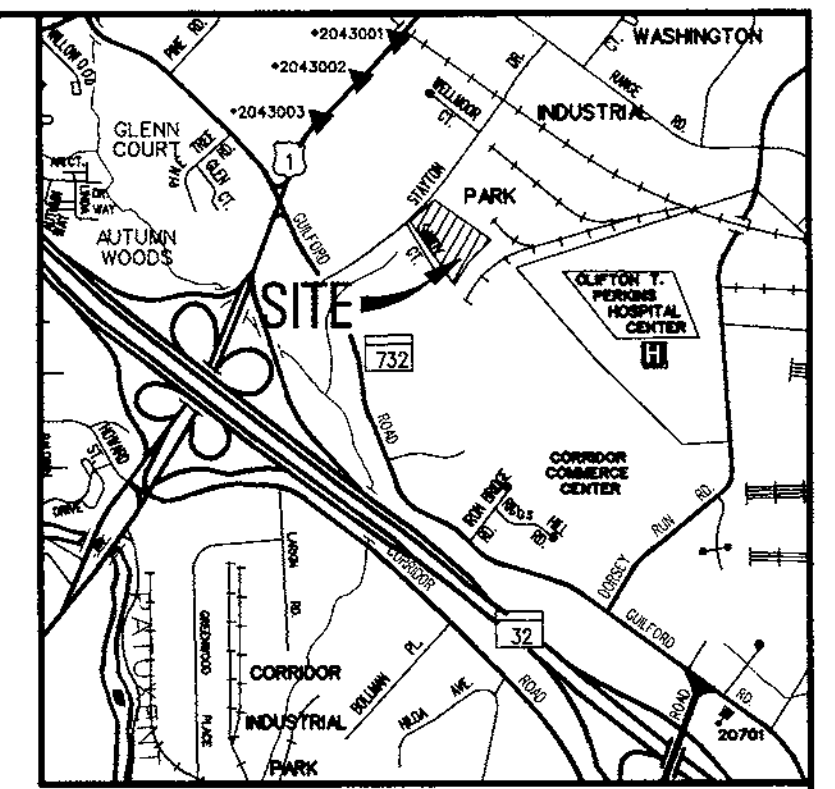
BUILDING ADDITION

A Resubdivision Of Parcels D-1 & E, BLOCK "C"
Plot No. 6287 & 3591
ZONING: M-2
TAX MAP NO. 48 PARCEL D-2, PARCEL E-1, BLOCK "C"
SIXTH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
PLAT 14-112

SCALE: 1" = 40'
DATE: SEPTEMBER 29, 1999
SHEET 1 OF 18

SDP 99-159

Baltimore Washington Industrial Park
Parcel "C", Block "C"
PB.24, P.24



VICINITY MAP
SCALE: 1" = 2000'
▲ HOWARD COUNTY GEODETIC CONTROL STATIONS

**PARCEL E-1, BLOCK C
BALTIMORE WASHINGTON
INDUSTRIAL PARK
9.259 Ac.
PLAT 14112**

Baltimore Washington Industrial Park
Parcel "G", Block "C"
Plat 3026

EX. ONE STORY WAREHOUSE

MATCH SHEET 1

GENERAL NOTES

- All construction shall be in accordance with the latest standards and specifications of Howard County plus MSHA standards and specifications, if applicable.
- The contractor shall notify the Department of Public Works/Bureau of Engineering / Construction Inspection Division at (410) 313-1880 at least five (5) working days prior to the start of work.
- The contractor shall notify "Miss Utility" at 1-800-257-7777 at least 48 hours prior to any excavation work being done.
- Traffic control devices, markings, and signing shall be in accordance with the latest edition of the manual on uniform traffic control devices (MUTCD). All street and regulatory signs shall be in place prior to the placement of any asphalt.
- The existing topography is field run survey with maximum two foot contour intervals prepared by KCI Technologies, Inc. Dated 12/98.
- 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 Nos. 2043003, 2043002, and 2043001.
- Approximate location of existing utilities are shown. The contractor shall take all necessary precautions to protect the existing utilities and maintain uninterrupted service. Any damage incurred due to the contractor's operation shall be repaired immediately at the contractor's expense. Existing utilities are shown based on the best available information.
- A traffic study is not required for this project.
- A noise study is not required for this project.
- A geotechnical study was prepared by KCI Technologies, Inc. May 1999.
- A boundary survey was prepared for this project by KCI Technologies, Inc. on 12/98.
- Subject Property Zoned M-2.
- All elevations shown are based on the U.S.C. and G.S. mean sea level datum, 1929. Horizontal locations are based on N.A.D. 27.
- The contractor shall test pit existing utilities at least five (5) days before starting work shown on these drawings.
- Contractor is solely responsible for construction means, methods, techniques, sequences, procedures, and safety precautions and programs.
- Pipe shall not be installed by the contractor until the length called for at each station has been approved by the engineer in the field.
- No pipe shall be laid until lines of excavation have been brought within 6" of finished grade.
- Sediment and excavated material shall be hauled off-site and disposed at an approved soil disposal area with an approved sediment control plan.
- All inlets shall be constructed in accordance with Howard County standards.
- All pipe elevations shown are invert elevations.
- Storm drain trenches within road right of way shall be backfilled and compacted in accordance with Howard County Design Manual, Volume IV, i.e., Standard Specifications and Details or Construction, Latest Amendments.
- All fill areas within roadway and under structures to be compacted to a minimum of 95% compaction of AASHTO T180.
- Contractor to grade around the top of the proposed inlets in order to provide positive drainage to the inlets. Lining shall be as shown on the plans or as directed by the engineer.
- Clear all utilities by a minimum of 12". Clear all Poles by 2'-0" minimum or tunnel as required. The contractor shall coordinate with the utility companies to schedule the bracing of the poles, at the contractor's expense.
- Property information has been obtained from the best available source, and cannot be warranted to be complete and accurate.
- The contractor shall video tape the site, including Stayton Drive and Sandy Court, before and immediately after construction. Tape shall be at least 5 min. long for each session and tape shall be given to County Inspector. Tape shall show site detail and be of good quality.
- Contractor shall place 4" topsoil of disturbed areas to be vegetated. Revise existing topsoil where possible.
- The developer's architect should be advised that the fire resistance rating of exterior walls which are located in close proximity to one another and/or continuous to property lines shall be designed in accordance with table 602.0, section 705 of the BOCA National Building Code.
- Revisions made to the adjacent parking area on Parcel E-1 of this plan made by a red line revision to Parcel E on SDP-T1-20.

LEGEND

- 12" RCP EX. SWM PIPE
- C.B. CATCH BASIN
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- SDMH STORM DRAIN MANHOLE
- X-X- EX. CHAIN LINK FENCE

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS IN CONFORMANCE WITH THE MASTER PLAN OF WATER AND SEWERAGE FOR HOWARD COUNTY.

HOWARD COUNTY HEALTH OFFICER DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.

Chief Development Engineering Division DATE 5/10/00

Chief, Division of Land Development DATE 5/15/00

Director DATE 5/17/00

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

DIRECTOR DATE

Chief Bureau of Engineering DATE

BY THE DEVELOPER:

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 THE 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. ALSO AUTHORIZE PERIODIC ON-SITE INSPECTIONS BY THE HOWARD COUNTY SOIL CONSERVATION DISTRICT.

Developer DATE 4-26-00

BY THE ENGINEER:

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Engineer DATE 4-26-00

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.

NATURAL RESOURCES CONSERVATION DATE

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

HOWARD SOIL CONSERVATION DISTRICT DATE

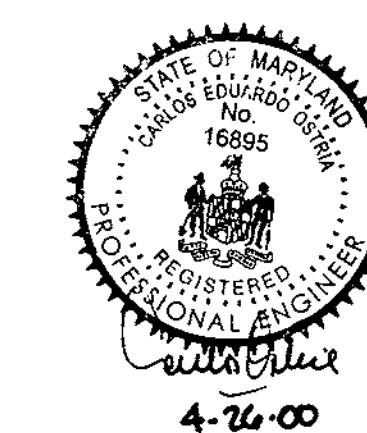
Check	DRN	DATE	REVISIONS
Check	CHK		
Design	DSN		
Check	CHK		



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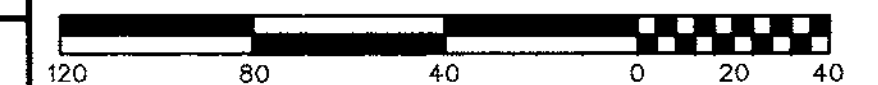
PREPARED FOR:
ACME PAPER AND SUPPLY CO.
8229 SANDY COURT
SAVAGE, MD 20763

SITE DEVELOPEMENT PLAN



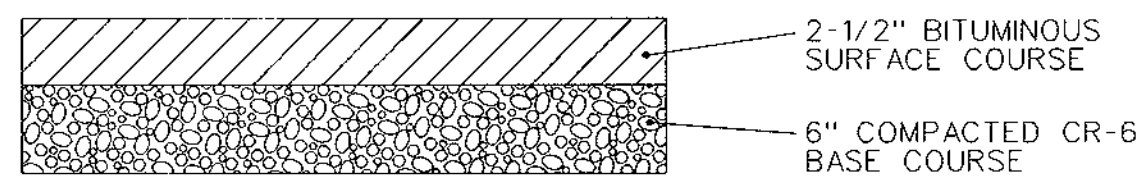
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BUILDING ADDITION
A Resubdivision Of Parcels D-1 & E, BLOCK "C"
Plat No. 6287 & 3591
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WATER CODE: B02 SEWER CODE: 4201900

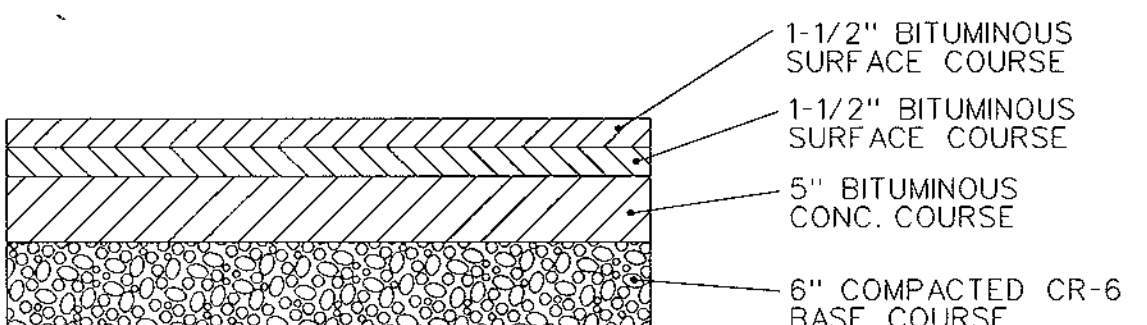


SCALE: 1" = 40'
DATE: SEPTEMBER 29, 1999
SHEET 2 of 18

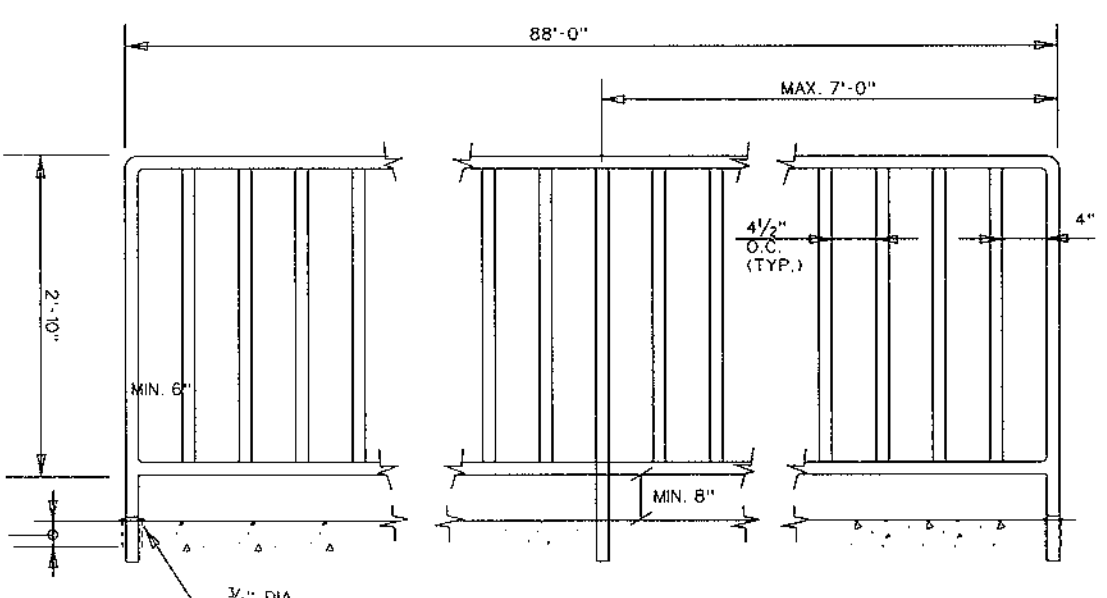
SDP-99-159



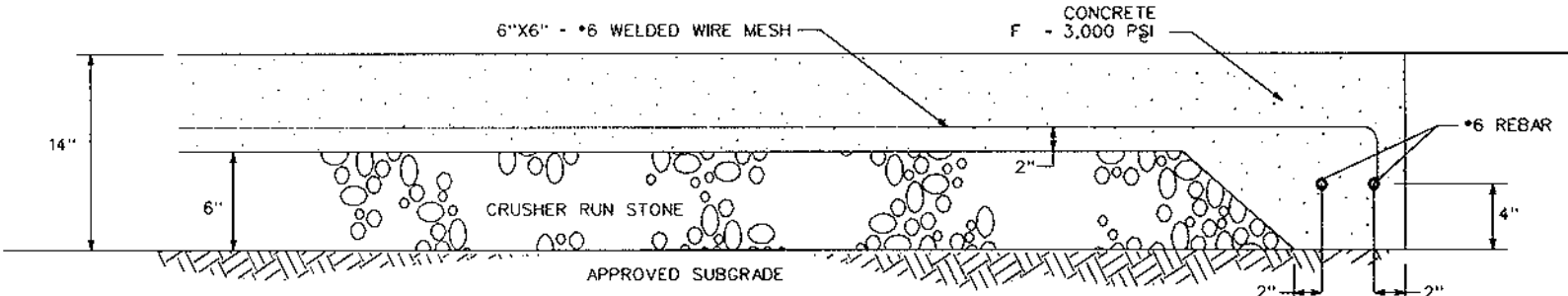
LIGHT DUTY PAVING DETAIL
NO SCALE



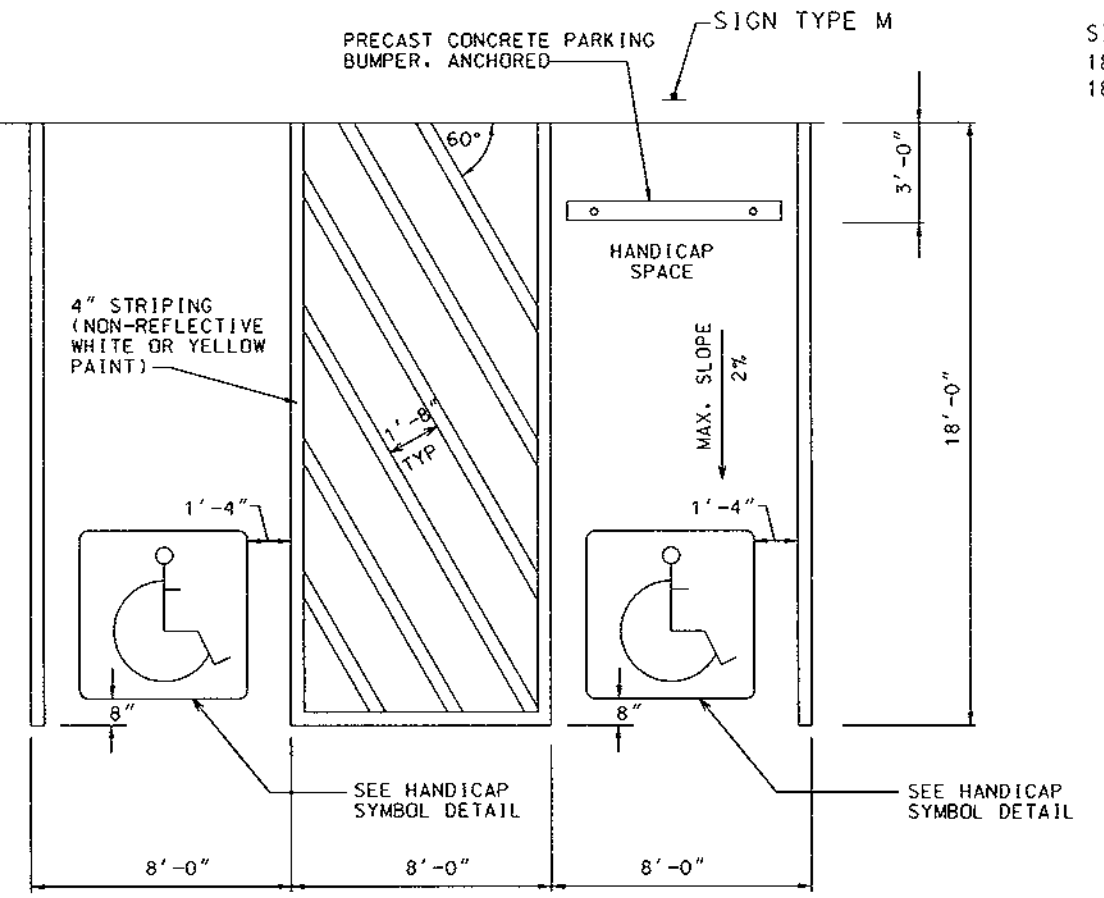
HEAVY DUTY PAVING DETAIL
NO SCALE



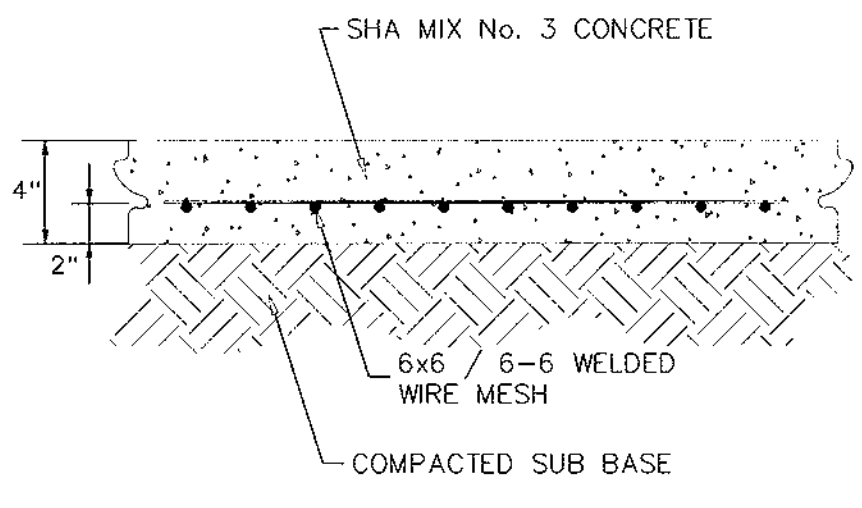
HANDICAP HANDRAIL DETAIL
NOT TO SCALE



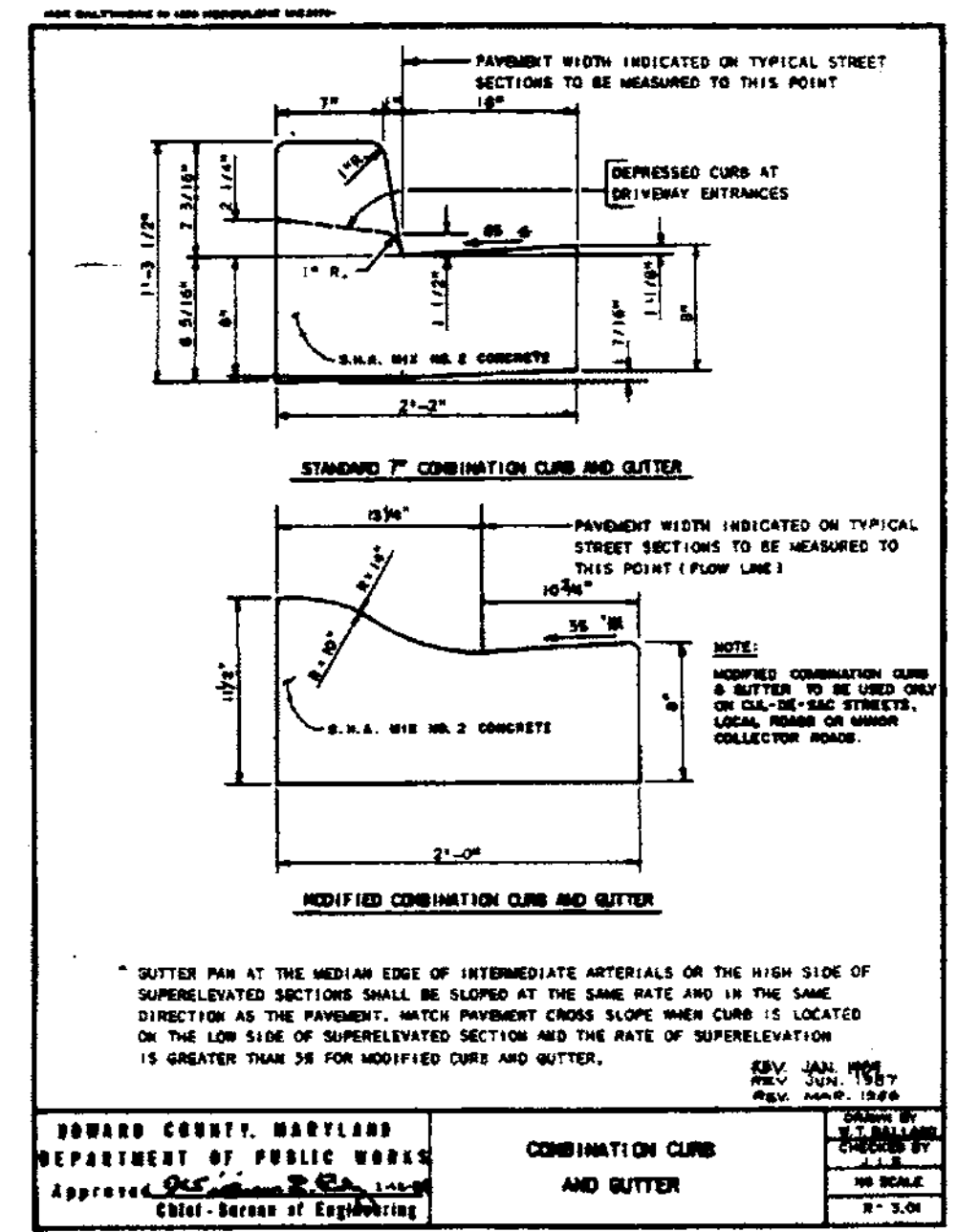
CONCRETE RAMP PAVEMENT SECTION
NOT TO SCALE



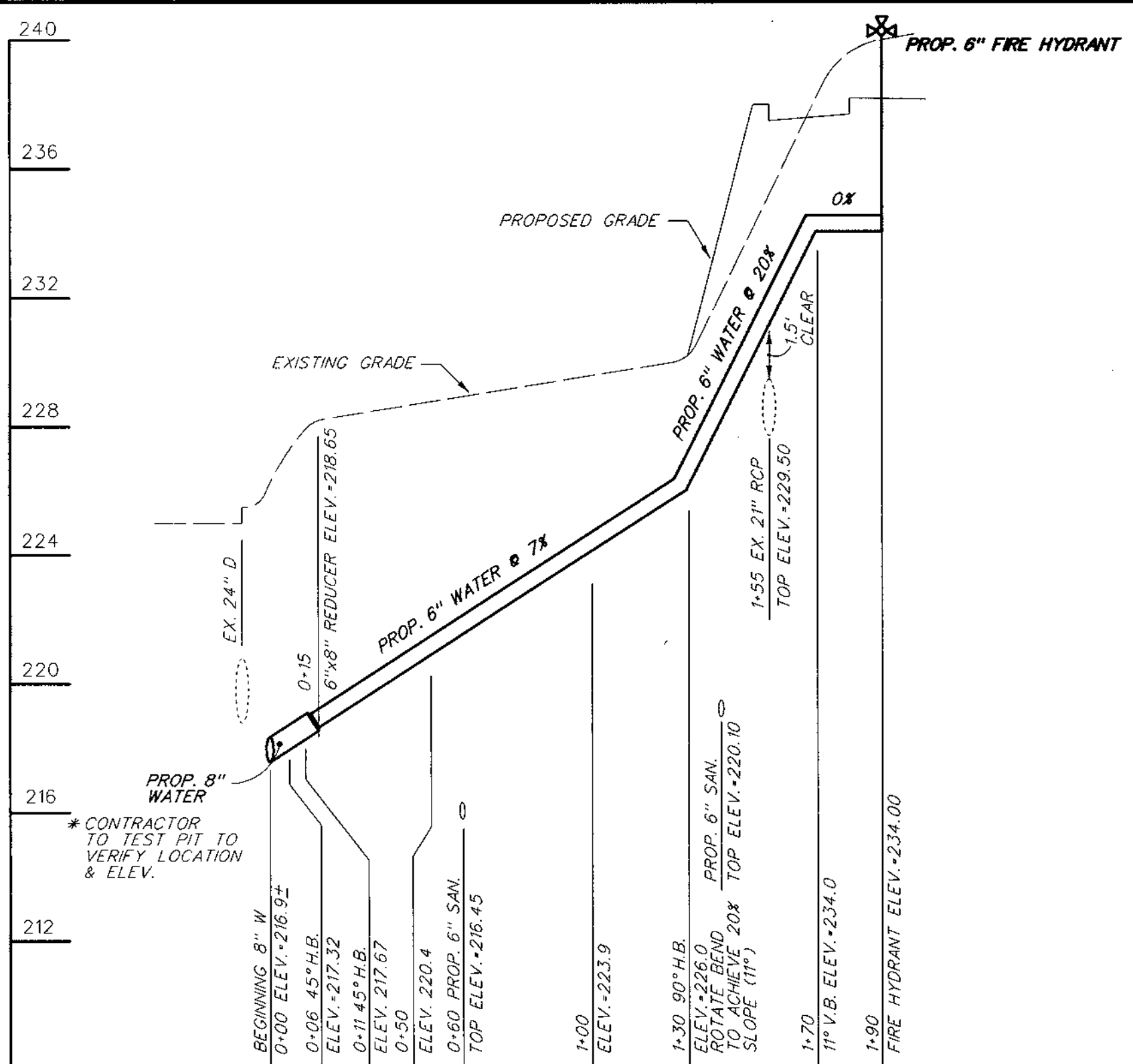
HANDICAP PARKING DETAIL
N.T.S.



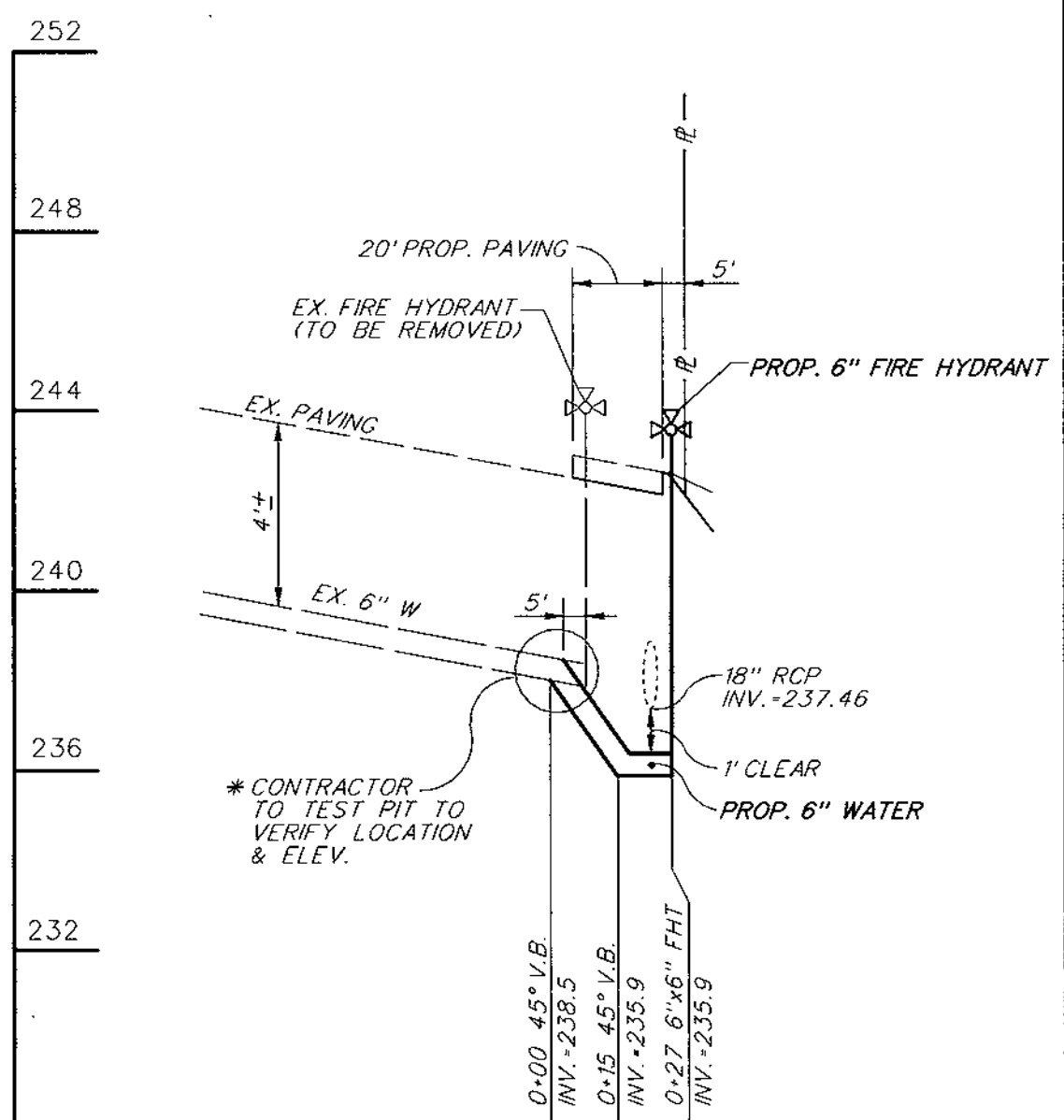
CONCRETE PAD DETAIL
N.T.S.



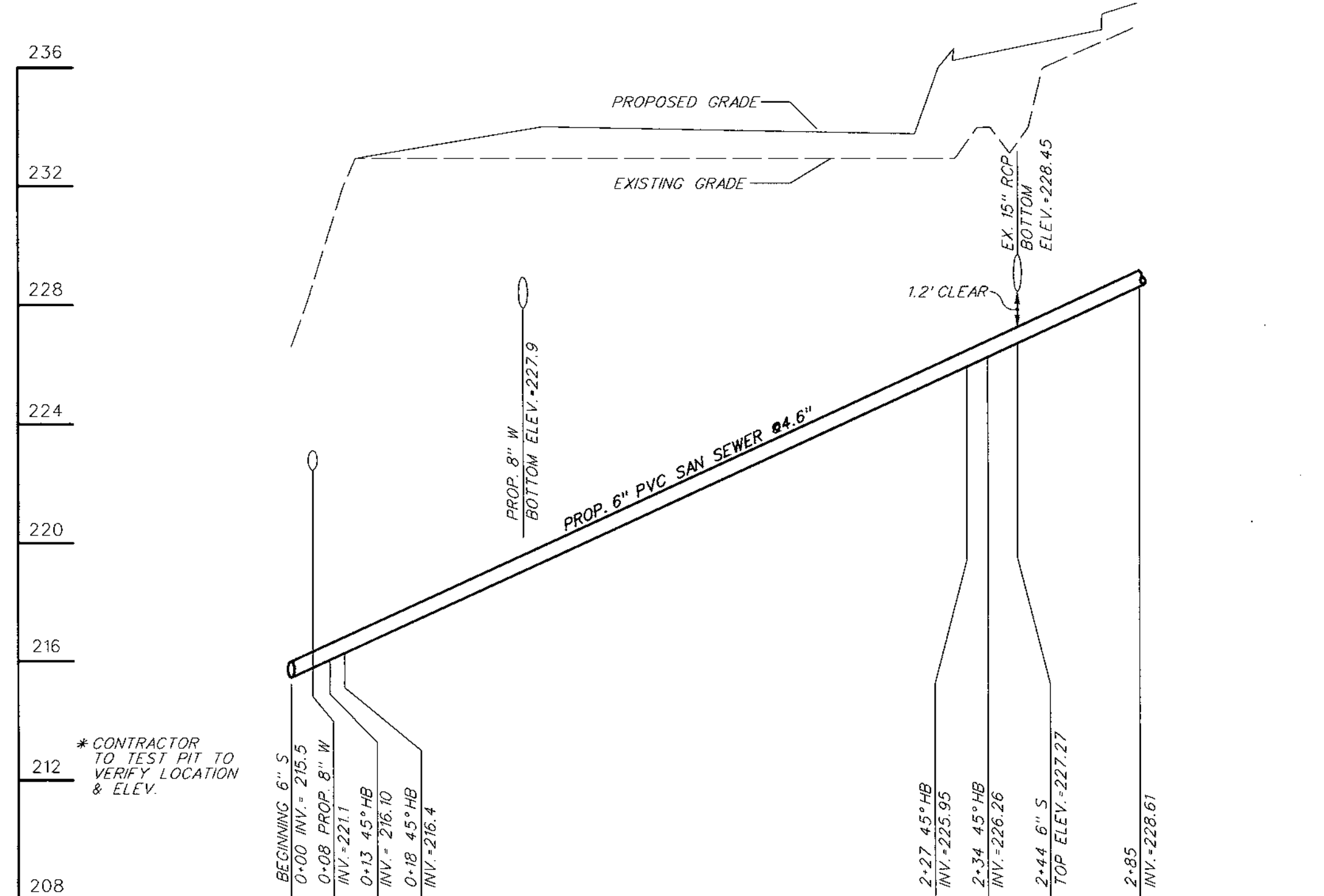
STANDARD CURB AND GUTTER
MODIFIED CURB AND GUTTER



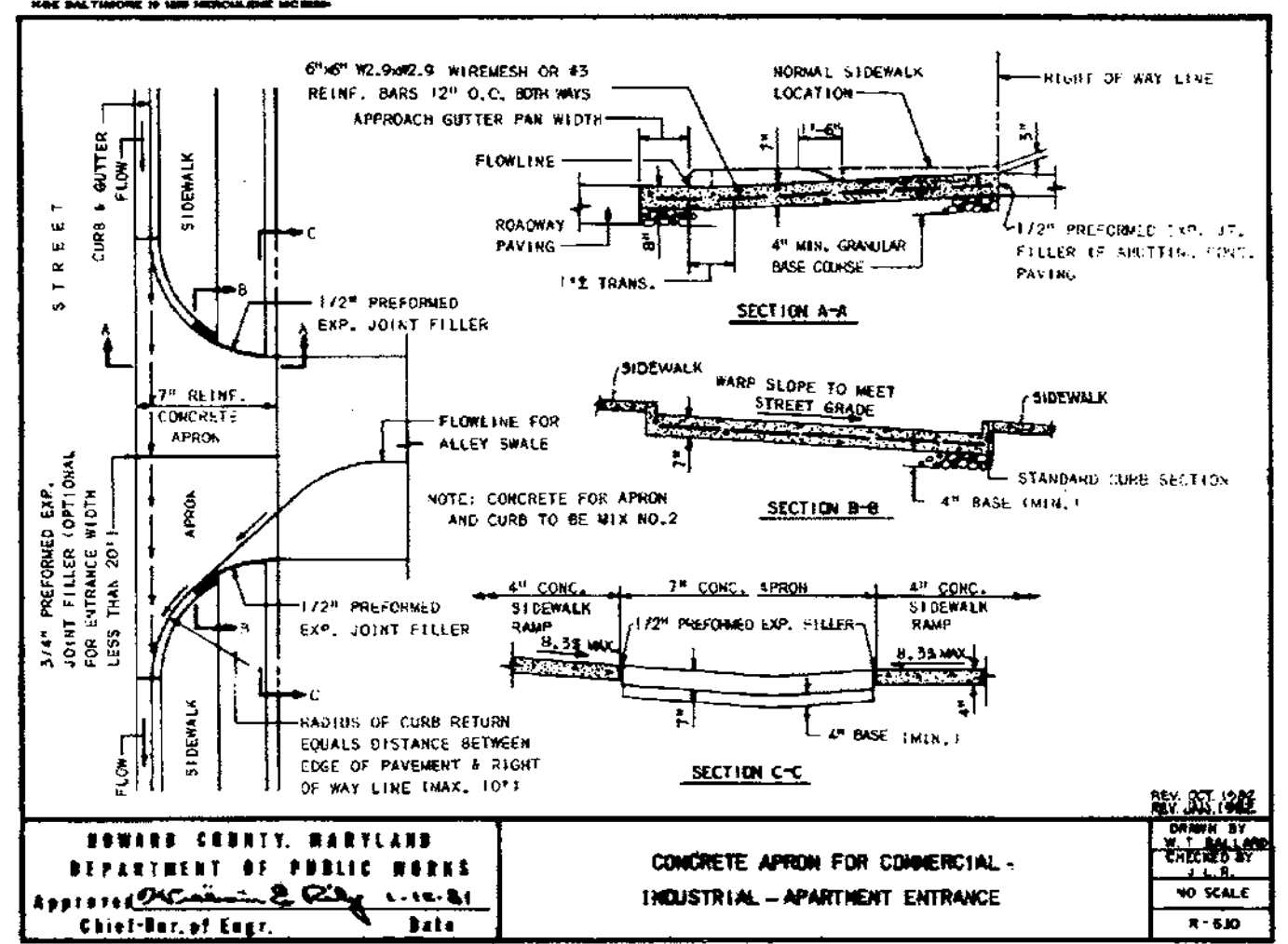
PROPOSED 8" WATER PROFILE
SCALE: HORIZ: 1" = 40'
VERT: 1" = 4'



PROPOSED 6" WATER PROFILE
SCALE: HORIZ: 1" = 40'
VERT: 1" = 4'



PROPOSED 6" SEWER PROFILE
SCALE: HORIZ: 1" = 40'
VERT: 1" = 4'



CONCRETE APRON FOR COMMERCIAL-INDUSTRIAL-APARTMENT ENTRANCE

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS IN CONFORMANCE WITH THE MASTER PLAN OF WATER AND SEWERAGE FOR HOWARD COUNTY.

HOWARD COUNTY HEALTH OFFICER _____ DATE _____

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.

[Signature] 5/10/00
CHIEF, DEVELOPMENT ENGINEERING DIVISION

[Signature] 5/10/00
CHIEF, DIVISION OF LAND DEVELOPMENT

[Signature] 5/19/00
DIRECTOR

APPROVED: FOR STORM DRAINAGE SYSTEMS AND PUBLIC ROADS, PUBLIC SEWAGE AND WATER, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS.

DIRECTOR _____ DATE _____

CHIEF, BUREAU OF ENGINEERING _____ DATE _____

BY THE DEVELOPER:

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[Signature] 4-26-00
DEVELOPER DATE

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ENGINEER DATE

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NATURAL RESOURCES CONSERVATION DATE _____

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

HOWARD SOIL CONSERVATION DISTRICT DATE _____

DWG PATH	DRAWN	CHECKED	DATE	REVISIONS
Drafting	JJR		8-30-99	REVISED WALL ELEVATIONS
Check	CGW			
Design	CGW			
Check	CEO			

KCI Technologies, Inc.
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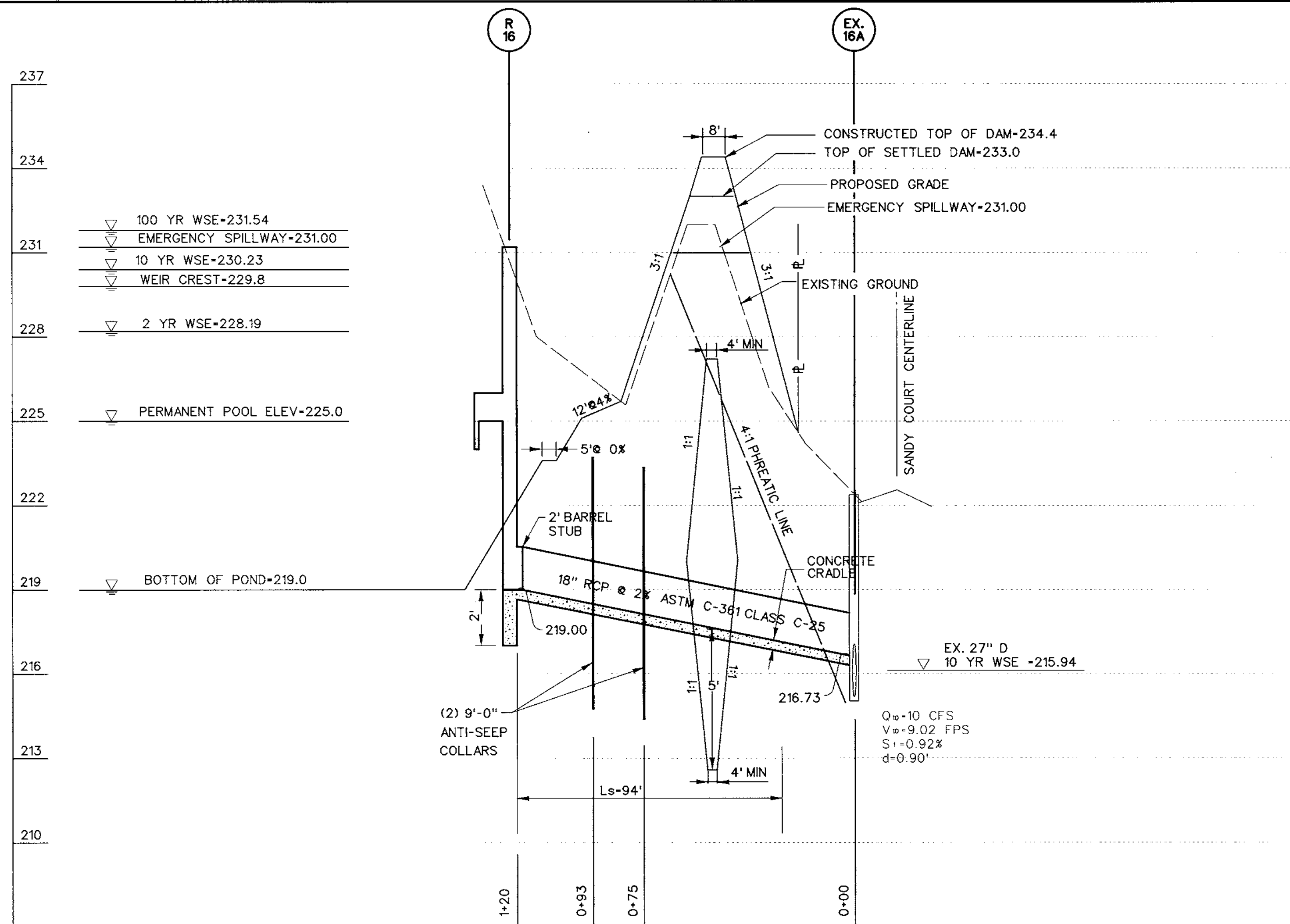
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SITE DETAILS

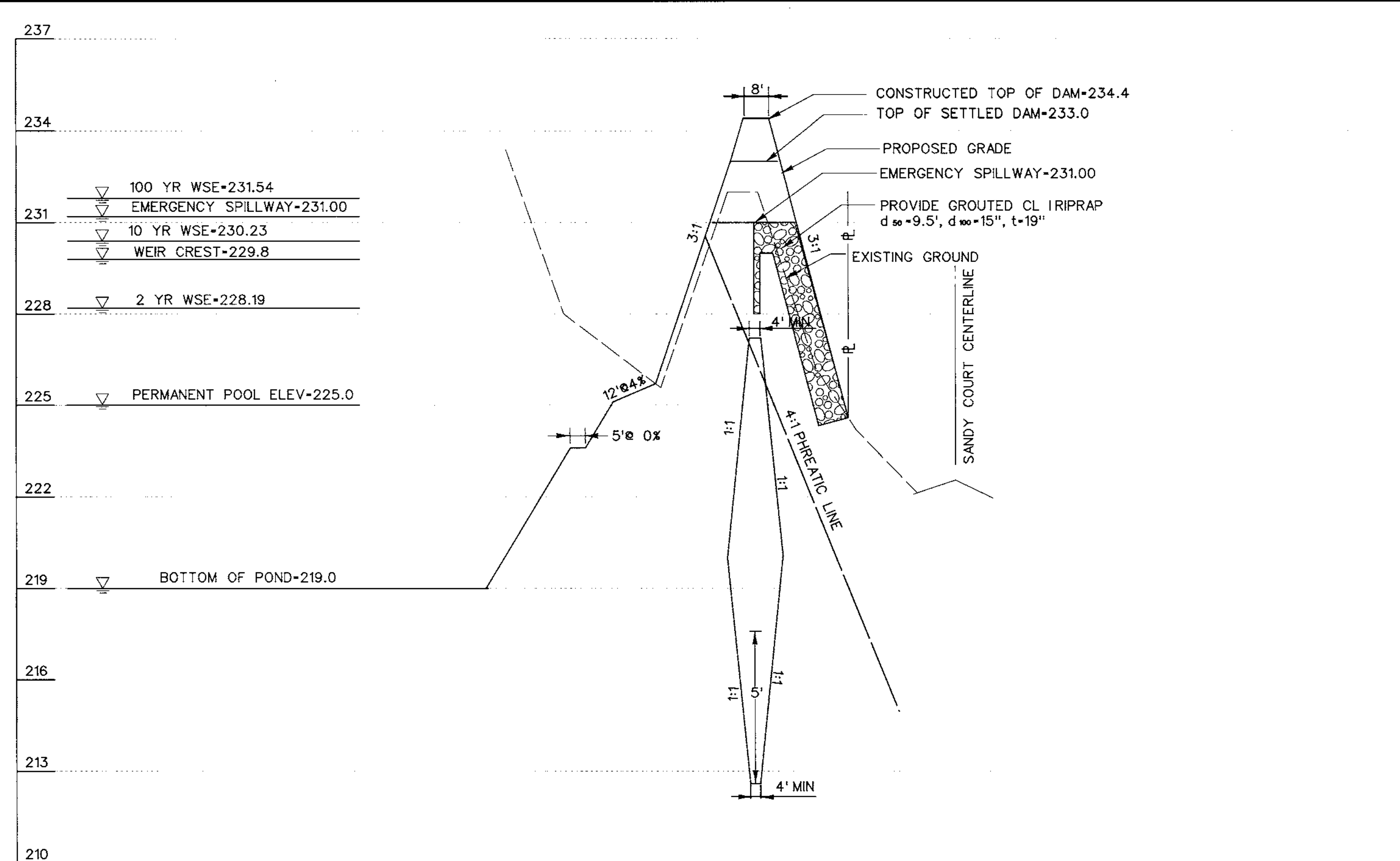


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HOWARD COUNTY, MARYLAND
WATER CODE: B02 SEWER CODE: 4201900
Plan 14-112

SCALE: AS SHOWN
DATE: AUGUST 15, 1999
SHEET 3 OF 18



PROFILE THROUGH ϕ PRINCIPLE SPILLWAY
SCALE: 1"=30' HORIZ.
1"=3' VERT.



PROFILE THROUGH ϕ EMERGENCY SPILLWAY
SCALE: 1"=30' HORIZ.
1"=3' VERT.

Precast Concrete Stormceptor® Order Request Form

CONTRACTOR INFORMATION
Name: _____
Address: _____
City: _____
State: _____
Zip Code: _____
Contract: _____
Phone: _____
Fax: _____

OWNER INFORMATION
Name: Acme Paper and Supply Co.
Phone: (410) 392-2111
Fax: _____

PLEASE FILL OUT COMPLETELY AND FAX TO: **CSRI Hydro Concepts**
ATTN: DAN FALLON FAX: (703)922-3659, PHONE: (703)313-6389
FOR TECHNICAL ASSISTANCE PLEASE CALL MIKE BARG, PHONE (703)313-6399

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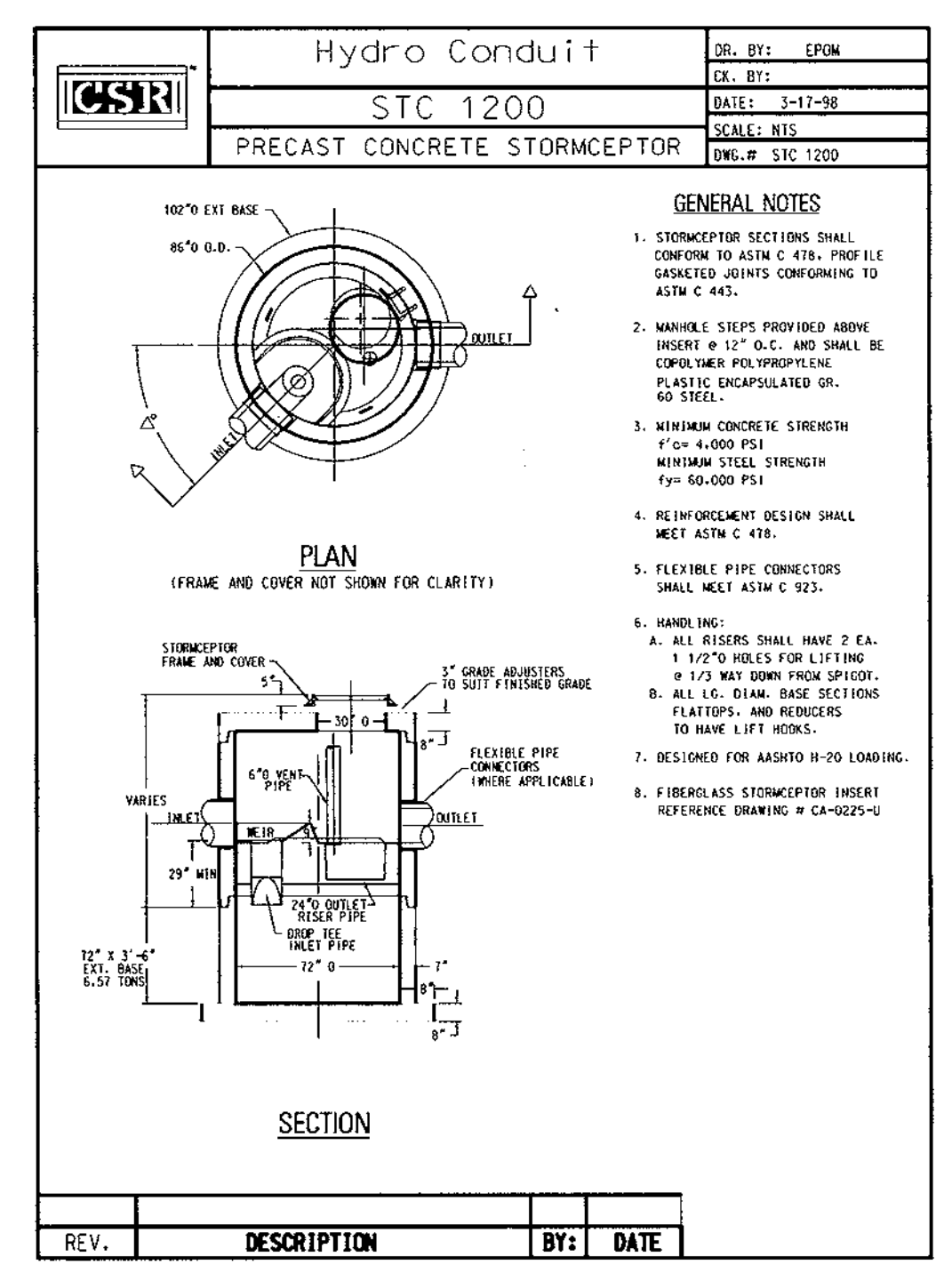
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HOWARD COUNTY HEALTH OFFICER _____ DATE _____

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Cindy Hamilton 5/18/00
CHIEF, DIVISION OF LAND DEVELOPMENT DATE

Frank Smith 5/18/00
DIRECTOR DATE

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

DIRECTOR _____ DATE _____

CHIEF, BUREAU OF ENGINEERING _____ DATE _____

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Dan Fallon 5/18/00
DEVELOPER DATE

BY THE ENGINEER:

I CERTIFY THAT THIS PLAN FOR POND CONSTRUCTION, EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS. THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT. I HAVE NOTIFIED THE DEVELOPER THAT HE/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.

Dan Fallon 5/18/00
ENGINEER DATE

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.

Chris Sumner 5/18/00
NATURAL RESOURCES CONSERVATION DATE

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

Dan Fallon 5/18/00
HOWARD SOIL CONSERVATION DISTRICT DATE

- STORMCEPTOR MAINTENANCE REQUIREMENT**
- CHECK FOR OIL (USING A DISPTICK OR TUBE).
 - REMOVE ANY OIL SEPARATELY USING A SMALL PORTABLE PUMP.
 - DECANT THE WATER FROM THE UNIT TO THE SANITARY SEWER USING A PORTABLE PUMP (REQUIRES APPROVAL FROM THE SEWER APPROVAL FROM THE SEWER AUTHORITY/MUNICIPALITY)
 - REMOVE THE SEDIMENT FROM THE BOTTOM OF THE UNIT USING THE VACUUM TRUCK ONCE THE DEPTH EXCEEDS 9".
 - DEWATER SOLIDS.
 - DISPOSE OF SOLIDS AND LIQUIDS IN AN APPROVED MANNER.

ACME PAPER & SUPPLY COMPANY

A Resubdivision Of Parcels D-1 & E, BLOCK "C"
Plot No. 6287 & 3591
ZONING: "M-2"
TAX MAP NO. 48 PARCEL D-2; PARCEL E-1, BLOCK "C"
SIXTH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
WATER CODE: B02 SEWER CODE: 4201900
Plat 14112

SCALE: AS SHOWN
DATE: SEPT. 29, 1999
SHEET 4 OF 18

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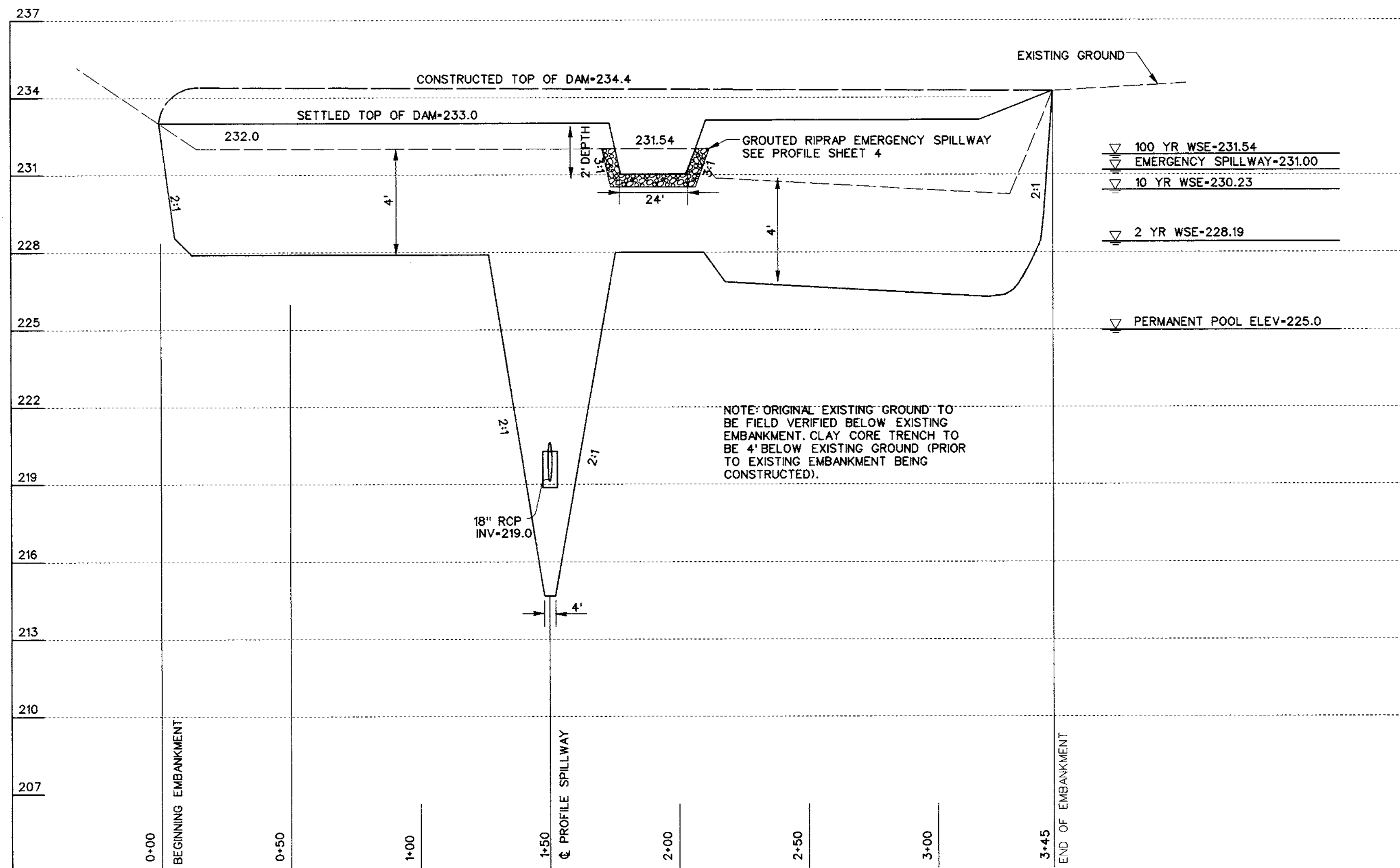
KCI Technologies, Inc.
14409 Greenview Drive, Suite 102
Laurel, Maryland 20708
(301) 953-1821 (410) 792-8086
fax: (410) 792-7419

PREPARED FOR:
ACME PAPER AND SUPPLY CO.
8229 SANDY COURT
SAVAGE, MD 20763

STORMWATER MANAGEMENT PROFILES

STP.99.159

SWM PONDSEDIMENT BASIN CONSTRUCTION SPECIFICATIONS



PROFILE THROUGH @ PRINCIPAL SPILLWAY
SCALE: 1"=30' HORIZ.
SCALE: 1"=3' VERT.

These specifications are appropriate to all ponds within the scope of the Standard for 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. Channelbanks 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, 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. For dry stormwater management ponds, a minimum of a 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 Unified Soil Classification CH, or CL, GC and SC, may be used provided 50% of the material passes the #200 sieve. If the fill material for the core trench and embankment is taken from an off-site borrow area, the fill material must be certified as meeting SCS, MD-378 Pond Specifications for fill material by a certified professional engineer prior to placement.

Placement - Areas on which fills to be placed shall be scarified prior to placement of fill. Fill materials shall be placed in maximum 8 inch 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 sheepfoot, 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 water can be squeezed out.

Where a minimum required density is specified, it 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.

Cut Off Trench - The cutoff 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 to 1 or flatter. The backfill shall be compacted with construction equipment, rollers, or hand tampers to assure maximum density and minimum permeability.

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 direct 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 or pipe.

Pipe Conduits

All pipes shall be circular in cross section.

Corrugated Metal Pipe - All of the following criteria shall apply for 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. Steel pipes with polymeric coatings shall have a minimum coating thickness of 0.01 inch (10 mil) on both sides of the pipe. The following coatings or an approved equal may be used: Nexon, Plast-Cote, Biac-Klad, and Beth-Cu-Loy. Coated corrugated steel pipe shall meet the requirements of AASHTO M-245 and M-246.

Materials - (Aluminum Coated Steel Pipe) - This pipe and its appurtenances shall conform to the requirements of AASHTO Specification M-274 with watertight coupling bands or flanges. Any aluminum coating damaged or otherwise removed shall be replaced with cold applied bituminous coating compound.

Materials - (Aluminum Pipe) - This pipe and its appurtenances shall conform to the requirements of AASHTO Specification M-196 or M-211 with watertight coupling bands or flanges. Aluminum surfaces that are to be in contact with concrete shall be painted with one coat of zinc chromate primer. Hot dip galvanized bolts may be used for connections. The Ph of the surrounding soils shall be between 4 and 9.

2. Coupling bands, anti-seep collars, and sections, etc., must be composed of the same materials as the pipe. Metals must be insulated from dissimilar materials with use of rubber or plastic insulating materials at least 24 miles in thickness.

3. Connections - All connections with pipes must be completely watertight. The drain pipe or barrel connection to the riser shall be welded all around when the pipe and riser are metal. Anti-seep collars shall be connected to the pipe in such a manner as to be completely watertight. Dimple bands are not considered to be watertight.

All connections shall use a rubber or neoprene gasket when joining pipe sections. The end of each pipe shall be rerolled an adequate number of corrugations to accommodate the band width. The following type connections are acceptable for pipes less than 24" in diameter: flanges on both ends of the pipe, a 12" wide standard lap type band with 12" wide by 3/8" thick closed cell circular neoprene gasket and a 12" wide hanger type band with O-ring gaskets having a minimum diameter of 1/2" greater than the corrugation depth. Pipes 24" in diameter and larger shall be connected by a 24" long annular corrugated band using rods and lugs. A 12" wide by 3/8" thick closed cell circular neoprene gasket will be installed on the end of each pipe for a total of 24".

Helically corrugated pipe shall have either continuously welded seams or have lock seams with internal caulking or a neoprene bead.

4. Bedding - The pipe shall be firmly and uniformly bedded throughout its entire length. Where rock or soft, spongy or other unstable soils are encountered, all such material shall be removed and replaced with suitable earth compacted to provide adequate support.

5. Backfilling shall conform to "Structure Backfill".

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

Reinforced Concrete Pipe - All of 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-361.

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 up the sides of the pipe at least 10% of its outside diameter with a minimum thickness of 3 inches, or as shown on the drawings.

3. Laying pipe - Bell and spigot pipe shall be placed with the bell end upstream. Joints shall be made in accordance with the manufacturer of the material. After 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.

Concrete

Concrete shall meet the requirements of Maryland Department of Transportation, State Highway Administration Standard Specifications for Construction and Materials, Section 414, Mix No. 3.

Rock Riprap

Rock riprap shall meet the requirements of Maryland Department of Transportation, State Highway Administration Standard Specifications for Construction and Materials, Section 311 & 901.2.

The riprap shall be placed to the required thickness in one operation. The rock shall be delivered and placed in a manner that will ensure the riprap in place shall be reasonably homogeneous with the larger rocks uniformly distributed and firmly in contact one to another with the smaller rocks filling the voids between the large rocks. Filter cloth shall be placed under all riprap and shall meet the requirements of Maryland Department of Transportation, State Highway Administration Standard Specifications for Construction and Materials, Section 921.09.

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 purposes, 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 full 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 sumps from which the 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 berm 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.

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.

Filter Cloth

Filter cloth shall be Miraf 1405, Dupont Tyvar *3341 or approved equal.

Pond Maintenance

- a. Removal of silt when accumulation exceeds six (6) inches in forebay.
- b. Removal of accumulated paper, trash and debris as necessary.
- c. Vegetation growing on the embankment top and faces of the forebay or basin is not allowed to exceed 18 inches in height at any time.
- d. Annual inspection and repair of the structure.

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS IN CONFORMANCE WITH THE MASTER PLAN OF WATER AND SEWERAGE FOR HOWARD COUNTY.

HOWARD COUNTY HEALTH OFFICER _____ DATE _____

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.

[Signature] 5/10/00
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

[Signature] 5/18/00
CHIEF, DIVISION OF LAND DEVELOPMENT DATE

[Signature] 5/14/00
DIRECTOR DATE

APPROVED: FOR STORM DRAINAGE SYSTEMS AND PUBLIC ROADS, PUBLIC SEWAGE AND WATER, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS.

DIRECTOR _____ DATE _____

CHIEF, BUREAU OF ENGINEERING _____ DATE _____

BY THE DEVELOPER:

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 REQUIREMENT OF THE 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 INSPECTIONS BY THE HOWARD COUNTY SOIL CONSERVATION DISTRICT.

[Signature] 4-26-00
DEVELOPER DATE

BY THE ENGINEER:

I CERTIFY THAT THIS PLAN FOR POND CONSTRUCTION, EROSION AND SEDIMENT CONTROL, REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS. THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT. I HAVE NOTIFIED THE DEVELOPER THAT HE/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.

[Signature] 4-26-00
ENGINEER DATE

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

[Signature] 5/10/00
NATURAL RESOURCES CONSERVATION DATE

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

[Signature] 5/10/00
HOWARD SOIL CONSERVATION DISTRICT DATE

Drafting	JJR	DATE	REVISIONS
Check	ZH	10/20/99	CHANG SPILLWAY LOCATION & ELEV.
Design	CGW		
Check	CEO		

KCI Technologies, Inc.
14409 Greenview Drive, Suite 102
Laurel, Maryland 20708
(301) 953-1821 (410) 792-8086
Fax: (410) 792-7419

PREPARED FOR:
ACME PAPER AND SUPPLY CO.
8229 SANDY COURT
SAVAGE, MD 20763

STORMWATER MANAGEMENT PROFILES



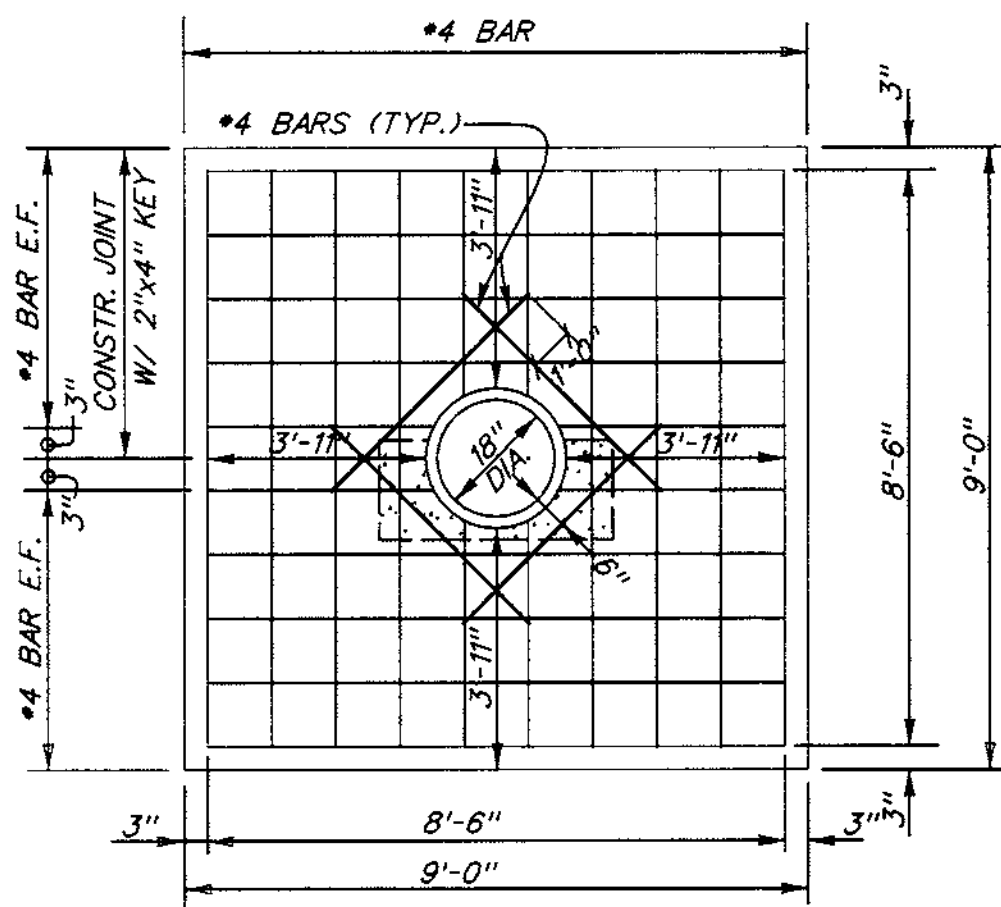
ACME PAPER & SUPPLY COMPANY

A Re subdivision Of Parcels D-1 & E, BLOCK "C"
Plat No. 6287 & 3591
ZONING: "M-2"

TAX MAP NO. 48 PARCEL D-2; PARCEL E-1, BLOCK "C"
SIXTH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
WATER CODE: B02 SEWER CODE: 4201900
Plat 14112

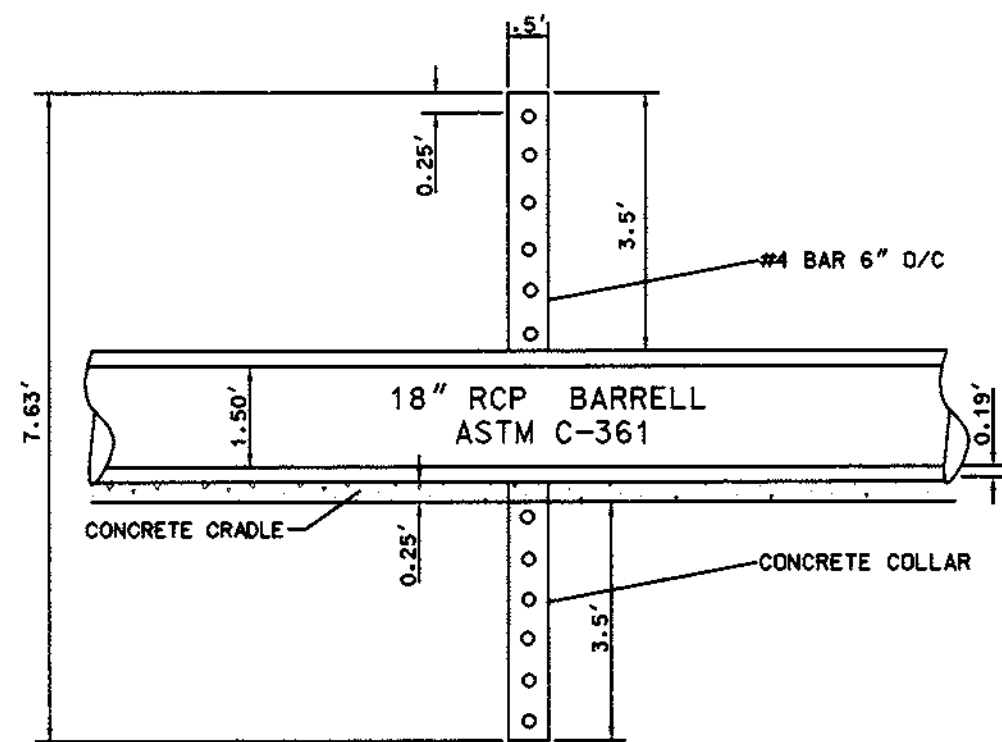
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DATE: SEPT. 29, 1999
SHEET 5 of 18

SP#99-159



ANTI-SEEP COLLAR DETAIL

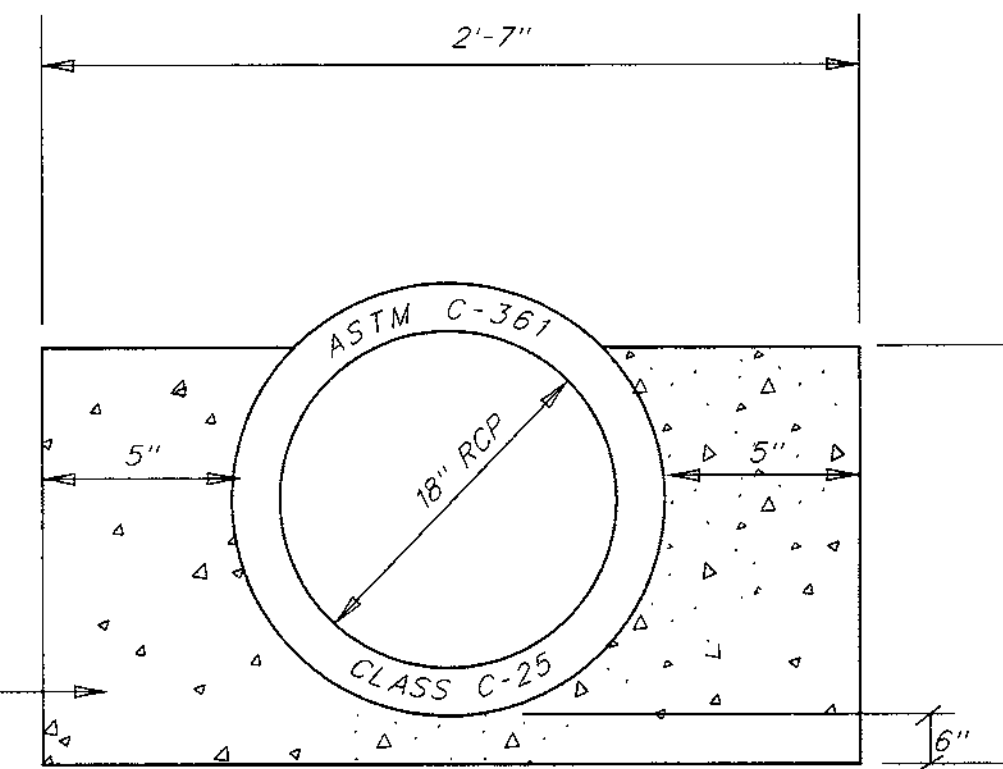
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ANTI-SEEP COLLAR DETAIL

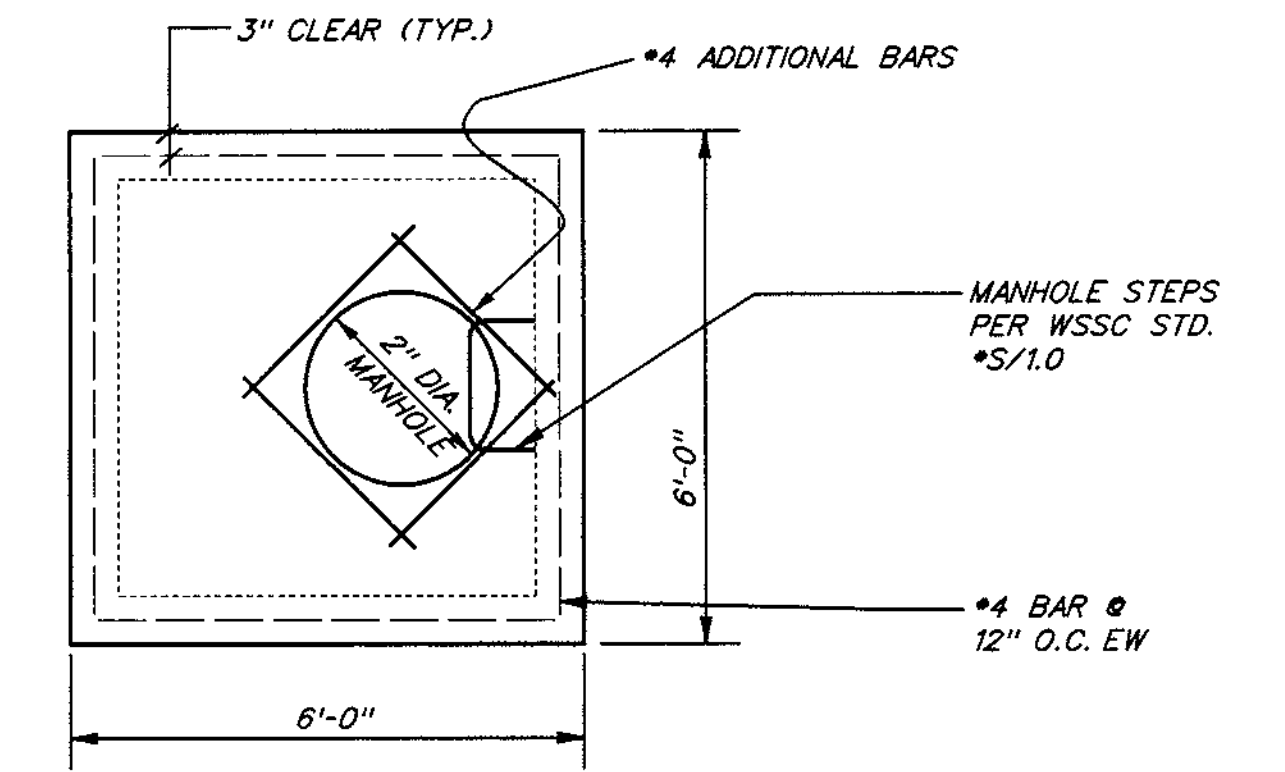
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POUR CONCRETE AGAINST UNDISTURBED EARTH. REMOVE SHEETING BEFORE POURING CONCRETE OR LEAVE LOWER PORTION IN PLACE. ALL CONCRETE SHALL HAVE Fc'-3000 psi @ 28 DAYS

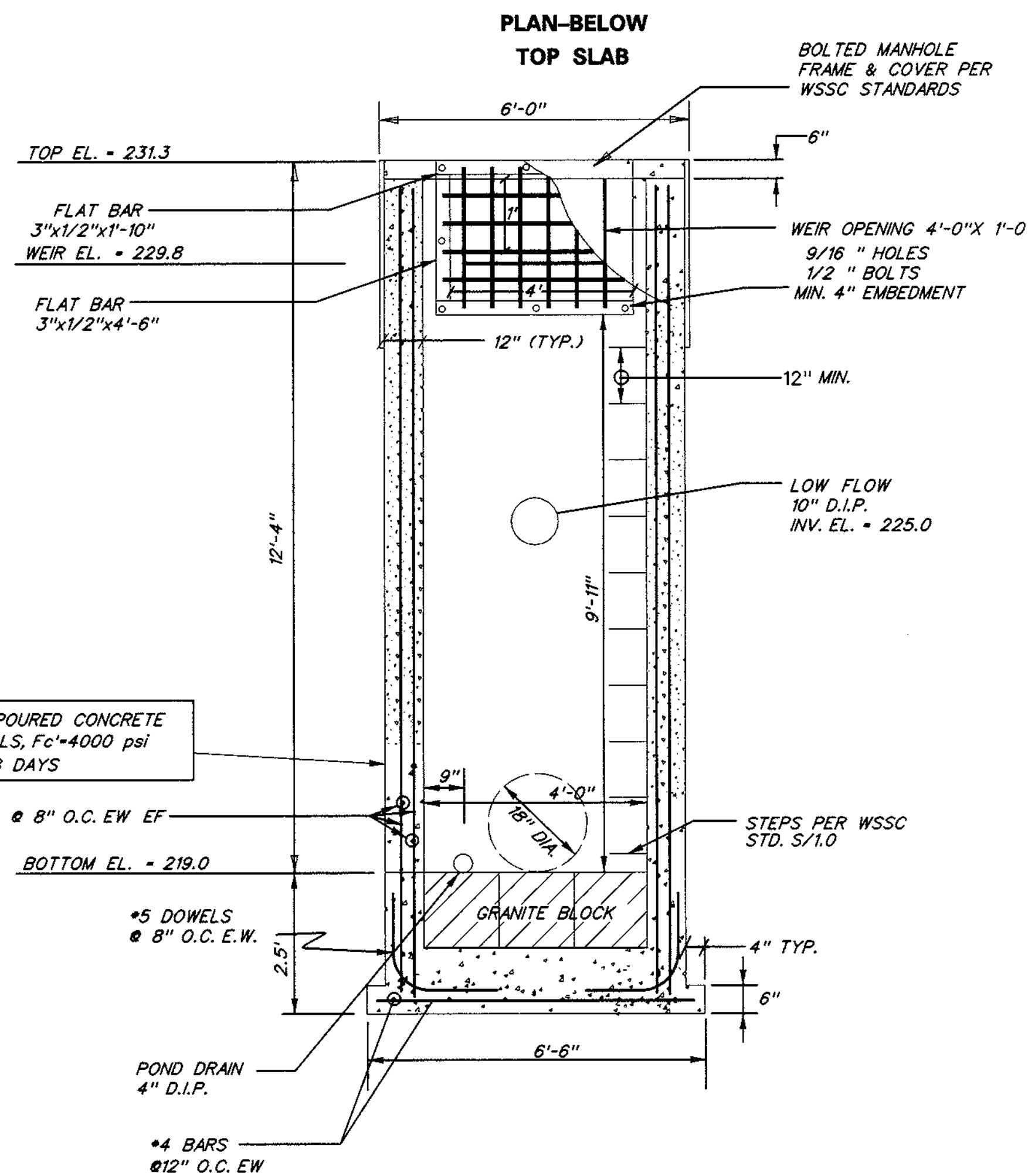


HIGH CONCRETE CRADLE DETAIL

NOT TO SCALE



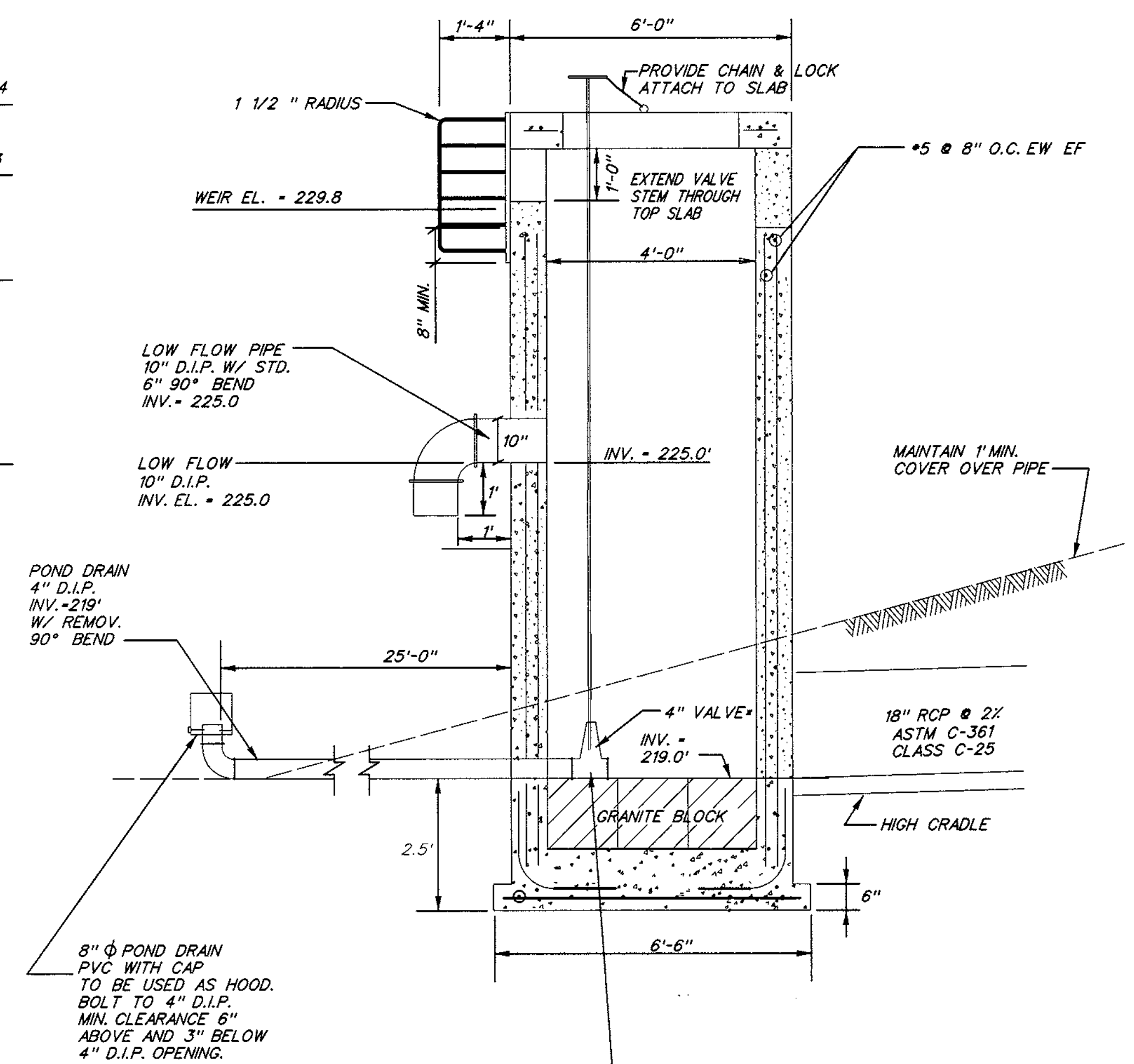
TOP



SECTION A-A

RISER DETAIL

SCALE: 1/2"=1'



SECTION B-B

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS IN CONFORMANCE WITH THE MASTER PLAN OF WATER AND SEWERAGE FOR HOWARD COUNTY

HOWARD COUNTY HEALTH OFFICER _____ DATE _____

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Chief, Development Engineering Division _____ DATE 5/10/00

Chief, Division of Land Development _____ DATE 5/18/00

Director _____ DATE 5/19/00

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

DIRECTOR _____ DATE _____

CHIEF BUREAU OF ENGINEERING _____ DATE _____

BY THE DEVELOPER:

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 THE 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 INSPECTIONS BY THE HOWARD COUNTY SOIL CONSERVATION DISTRICT.

DEVELOPER _____ DATE 4-26-00

BY THE ENGINEER:

I CERTIFY THAT THIS PLAN FOR POND CONSTRUCTION, EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS. THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT. I HAVE NOTIFIED THE DEVELOPER THAT HE/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 _____ DATE 4-26-00

IF 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

_____ DATE 5/16/00

NATURAL RESOURCES CONSERVATION

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

_____ DATE 5/16/00

HOWARD SOIL CONSERVATION DISTRICT

Drafting	DRN	DATE	REVISIONS
Check	CHK		10-21-99 CHANG 2) CRADLE TOP DETAIL, CORR. TOP ELEVATION
Design	DSN		
Check	CHK		



KCI Technologies, Inc.
14409 Greenview Drive, Suite 102
Laurel, Maryland 20708
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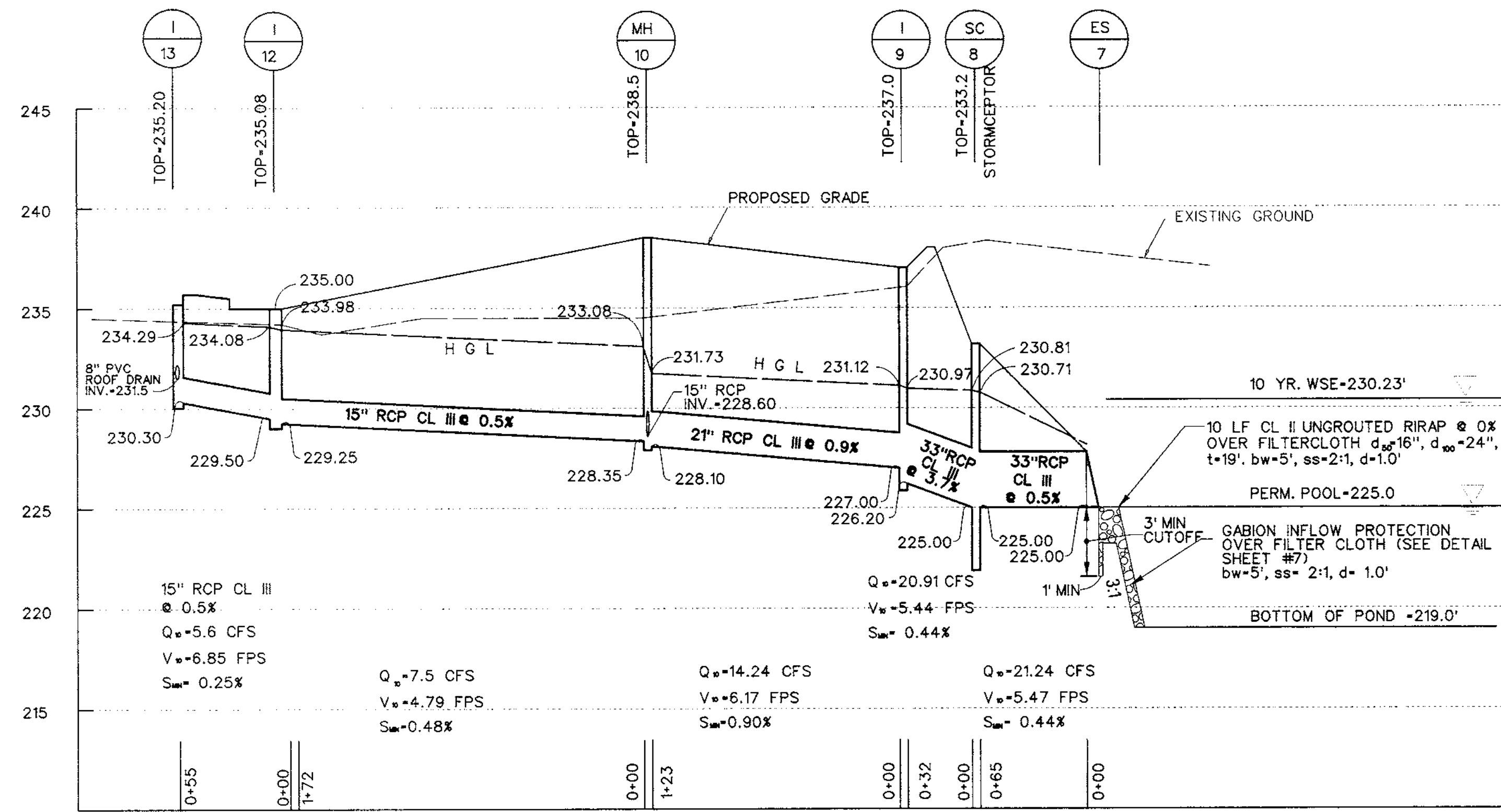
PREPARED FOR:
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SAVAGE, MD 20763

STORMWATER MANAGEMENT DETAILS

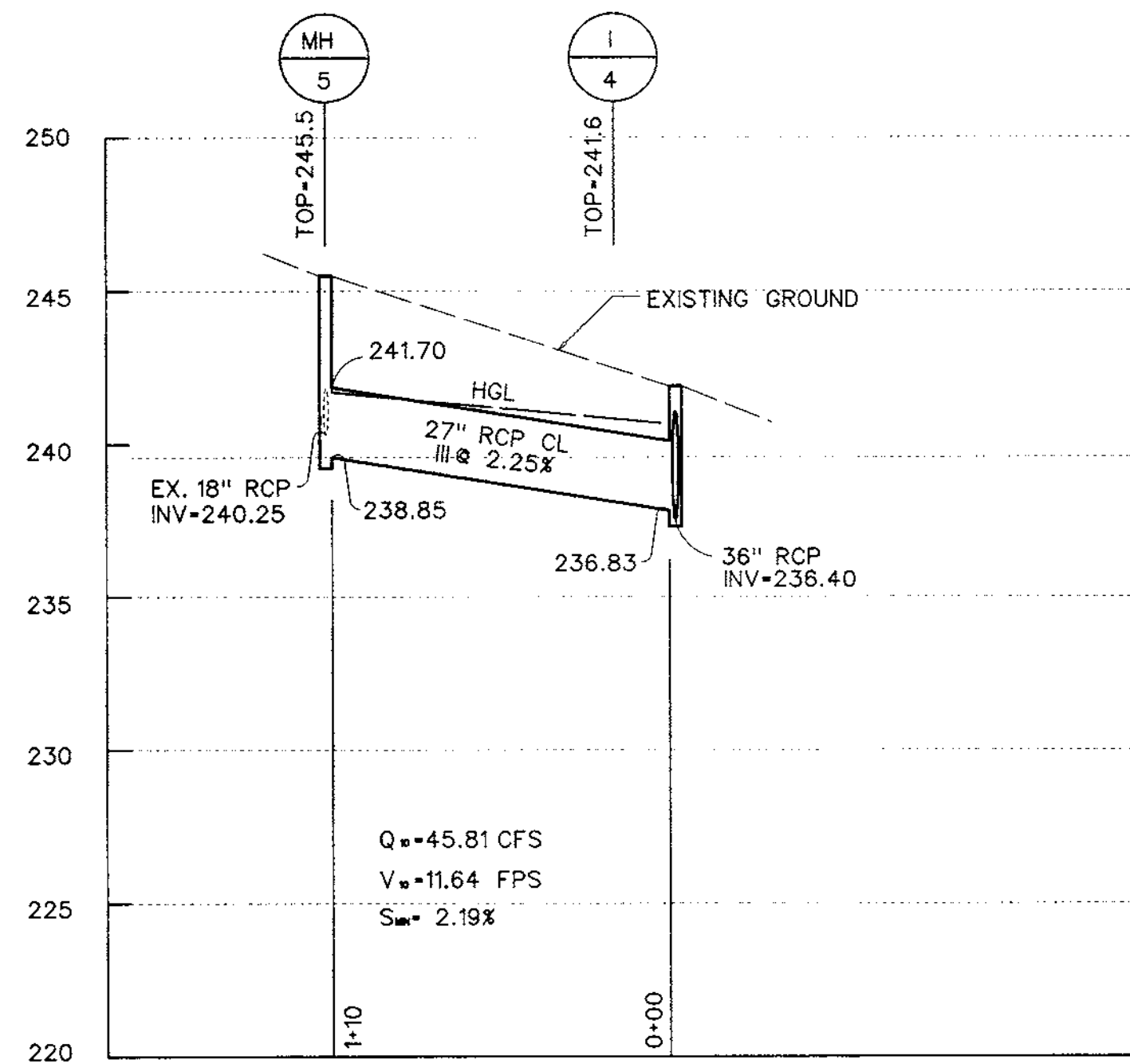


ACME PAPER & SUPPLY COMPANY
BUILDING ADDITION
A Resubdivision Of Parcels D-1 & E, BLOCK "C"
Plot No. 6287 & 3591
ZONING: "M-2"
TAX MAP NO. 48 PARCEL D-2; PARCEL E-1, BLOCK "C"
SIXTH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
WATER CODE: B02, SEWER CODE: 4201900
Plat 14-112
SCALE: AS SHOWN
DATE: AUGUST 13, 1999
SHEET 6 OF 18

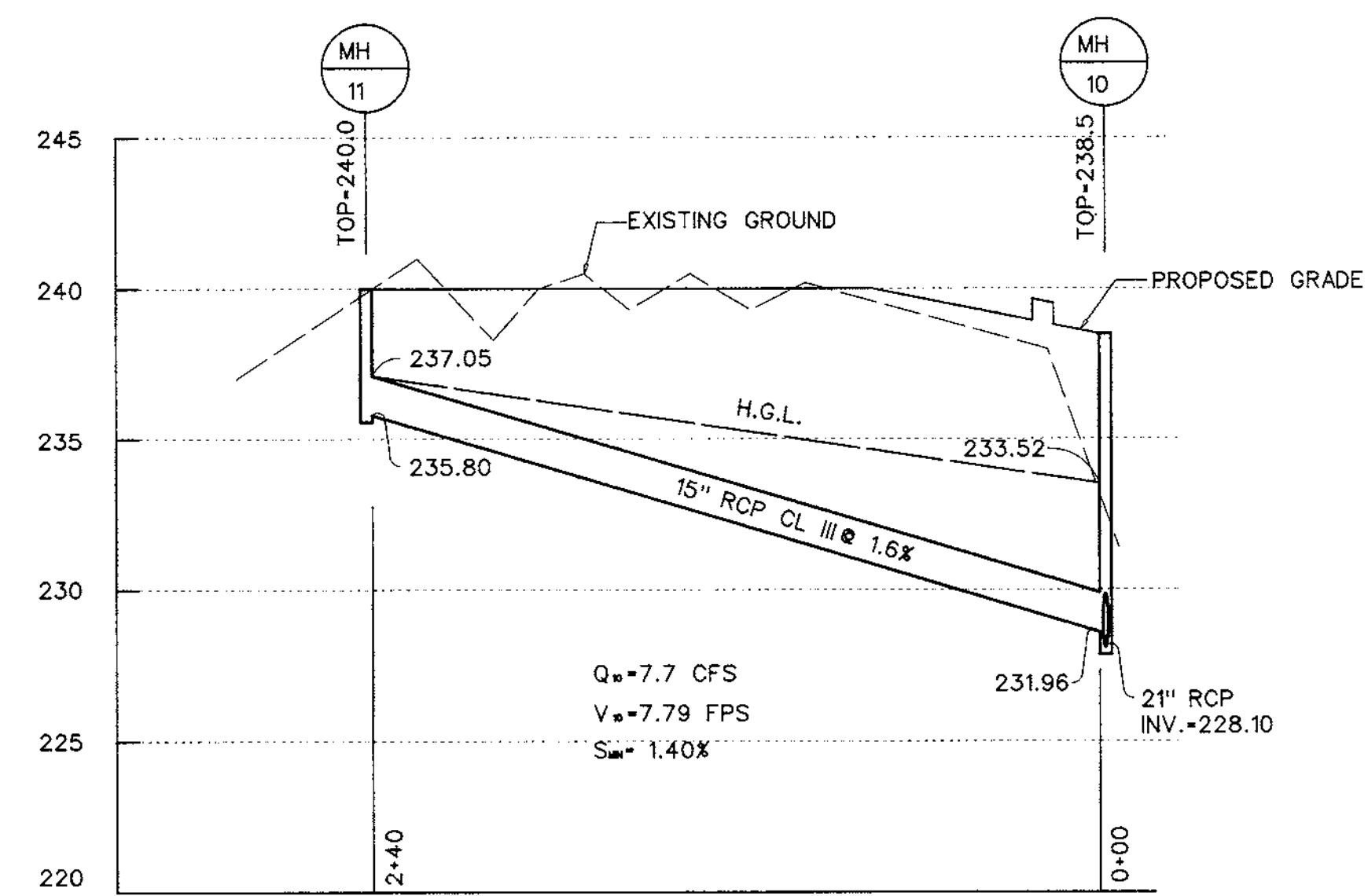
SP. 99.159



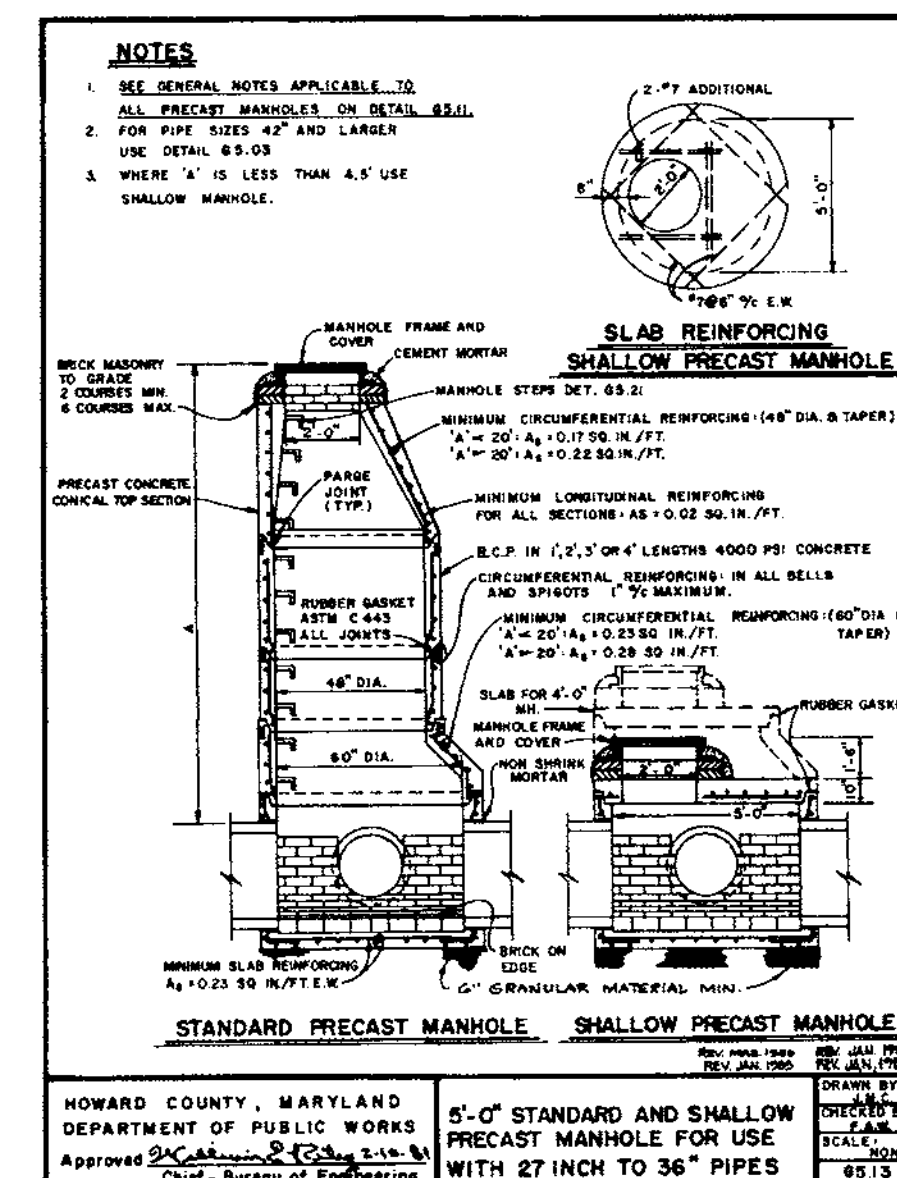
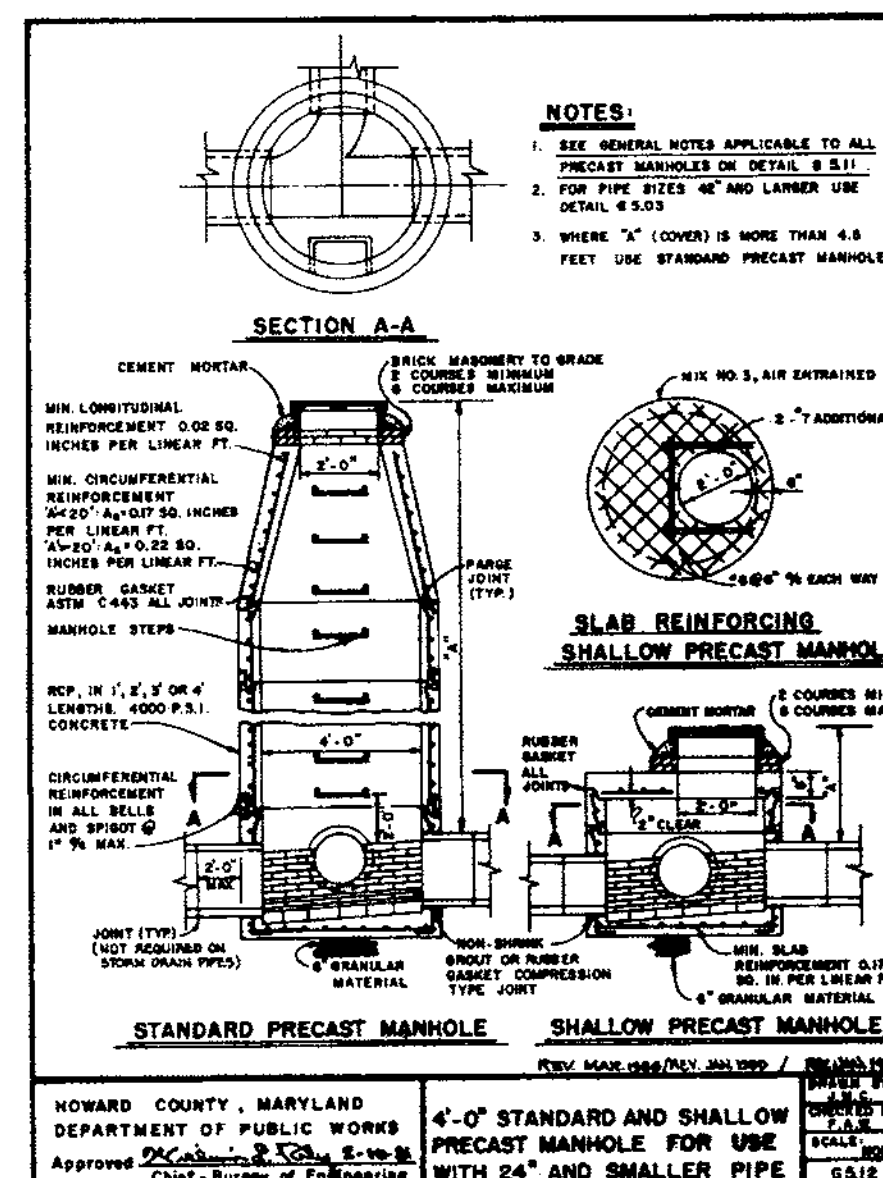
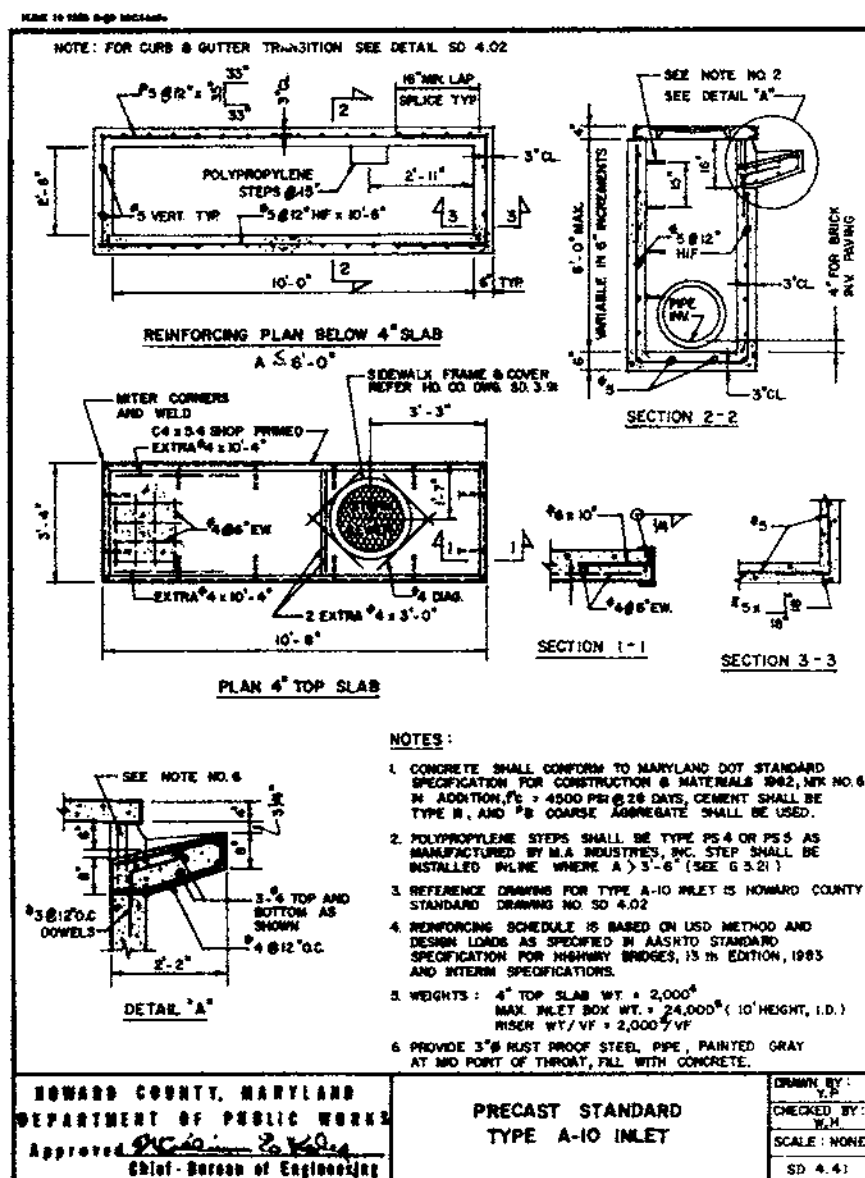
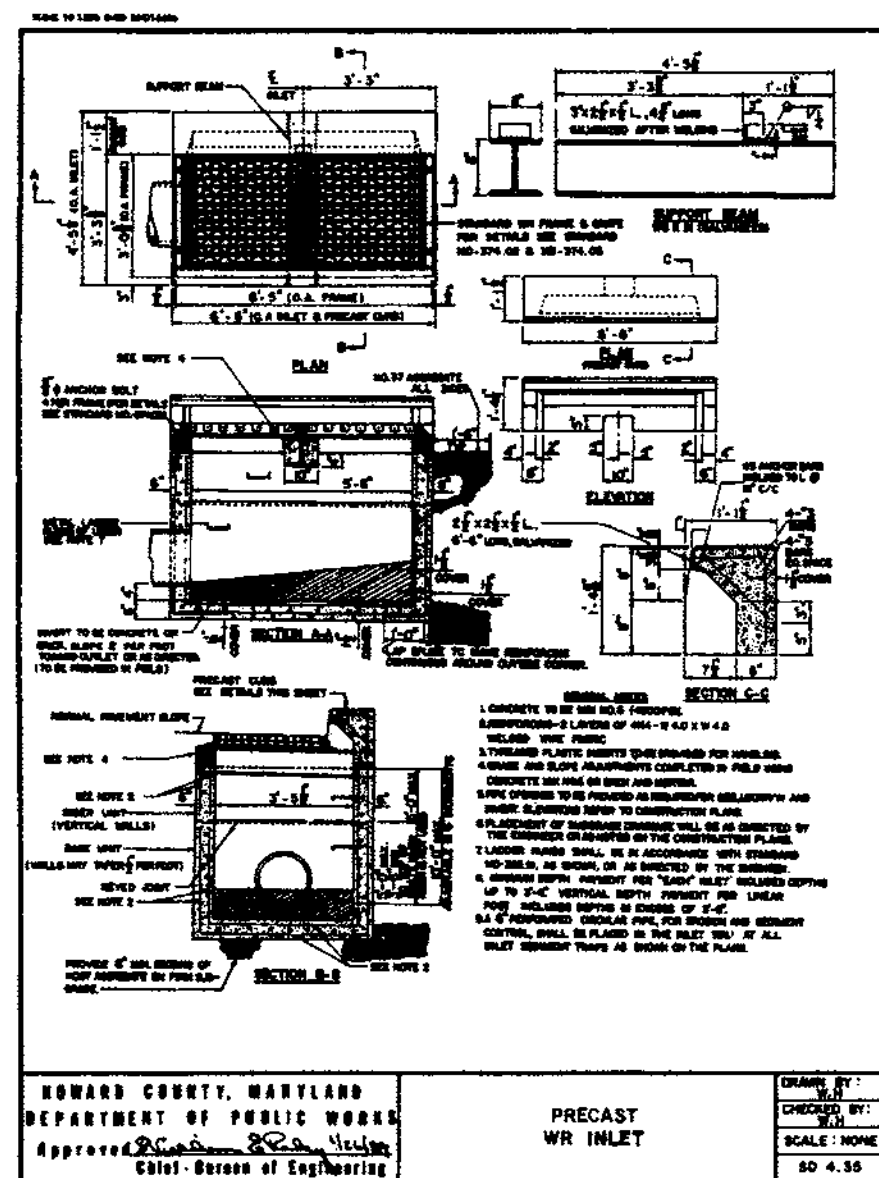
PROFILE FROM INLET 13 TO STRUCTURE 7
SCALE: 1"=50' HORIZ.
1"=5' VERT.



PROFILE FROM STRUCTURE 5 TO INLET 4
SCALE: 1"=50' HORIZ.
1"=5' VERT.



PROFILE FROM STRUCTURE 11 TO STRUCTURE 10
SCALE: 1"=50' HORIZ.
1"=5' VERT.



APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS IN CONFORMANCE WITH THE MASTER PLAN OF WATER AND SEWERAGE FOR HOWARD COUNTY.

HOWARD COUNTY HEALTH OFFICER _____ DATE _____

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.

Michelle Williams 5/10/00
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

Cindy Hamilton 5/15/00
CHIEF, DIVISION OF LAND DEVELOPMENT DATE

Joseph R. Miller 5/17/00
DIRECTOR DATE

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

DIRECTOR _____ DATE _____

CHIEF BUREAU OF ENGINEERING _____ DATE _____

BY THE DEVELOPER:

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Paul J. Thomas 4-26-00
DEVELOPER DATE

BY THE ENGINEER:

I CERTIFY THAT THIS PLAN FOR POND CONSTRUCTION, EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS. THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT. I HAVE NOTIFIED THE DEVELOPER THAT HE/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.

John A. White 4-26-00
ENGINEER DATE

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.

Carol Swann 10-5-10
NATURAL RESOURCES CONSERVATION DATE

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

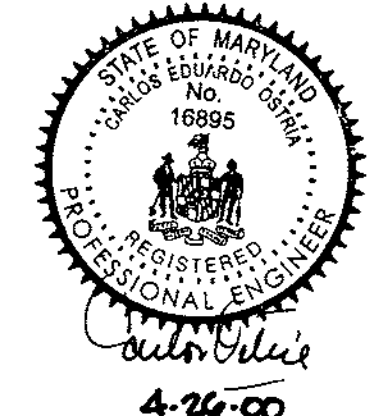
John A. White 5/2/00
HOWARD SOIL CONSERVATION DISTRICT DATE

Drafting	DRN	DATE	REVISIONS
Check	CHK	8-30-99	REVISED STORM DRAIN PROFILE
Design	DSN	01/21/98	REVISED ELEVATIONS
Check	CHK	01/19/99	REVISED END SEC. & ADDED DETAILS
Check	CHK		

KCI Technologies, Inc.
14409 Greenview Drive, Suite 102
Laurel, Maryland 20708
(301) 953-1821 (410) 792-8086
fax: (410) 792-7419

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8229 SANDY COURT
SAVAGE, MD 20763

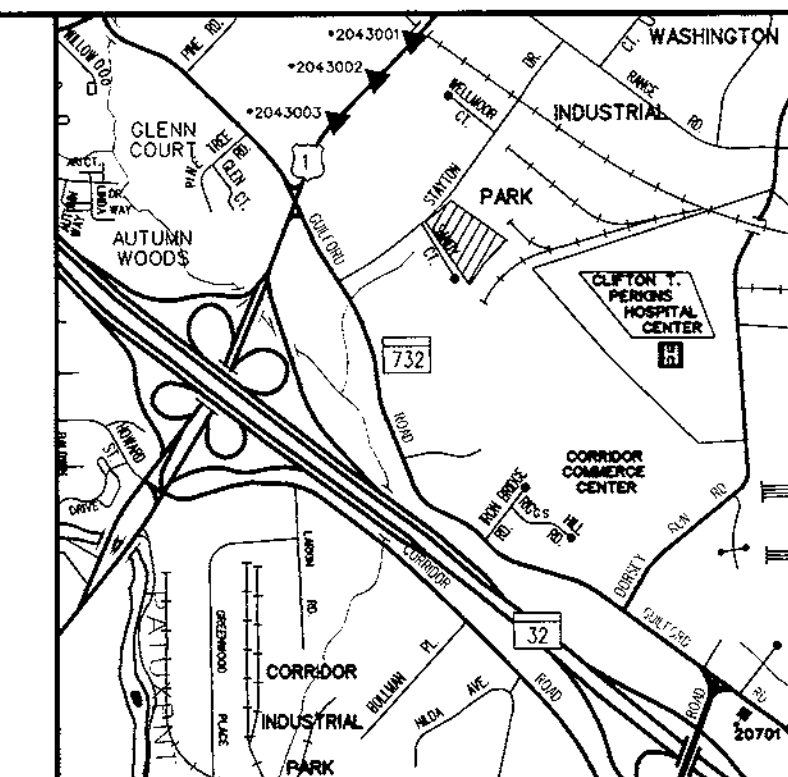
STORMDRAIN PROFILES & DETAILS



ACME PAPER & SUPPLY COMPANY
BUILDING ADDITION
A Resubdivision Of Parcels D-1 & E, BLOCK "C"
Plot No. 6287 & 3591
ZONING: M-2'
TAX MAP NO. 48 PARCEL D-2; PARCEL E-1, BLOCK "C"
SIXTH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
WATER CODE: B02, SEWER CODE: 4201900
Plot 14-112
SCALE: AS SHOWN
DATE: AUGUST 13, 1999
SHEET 8 of 18

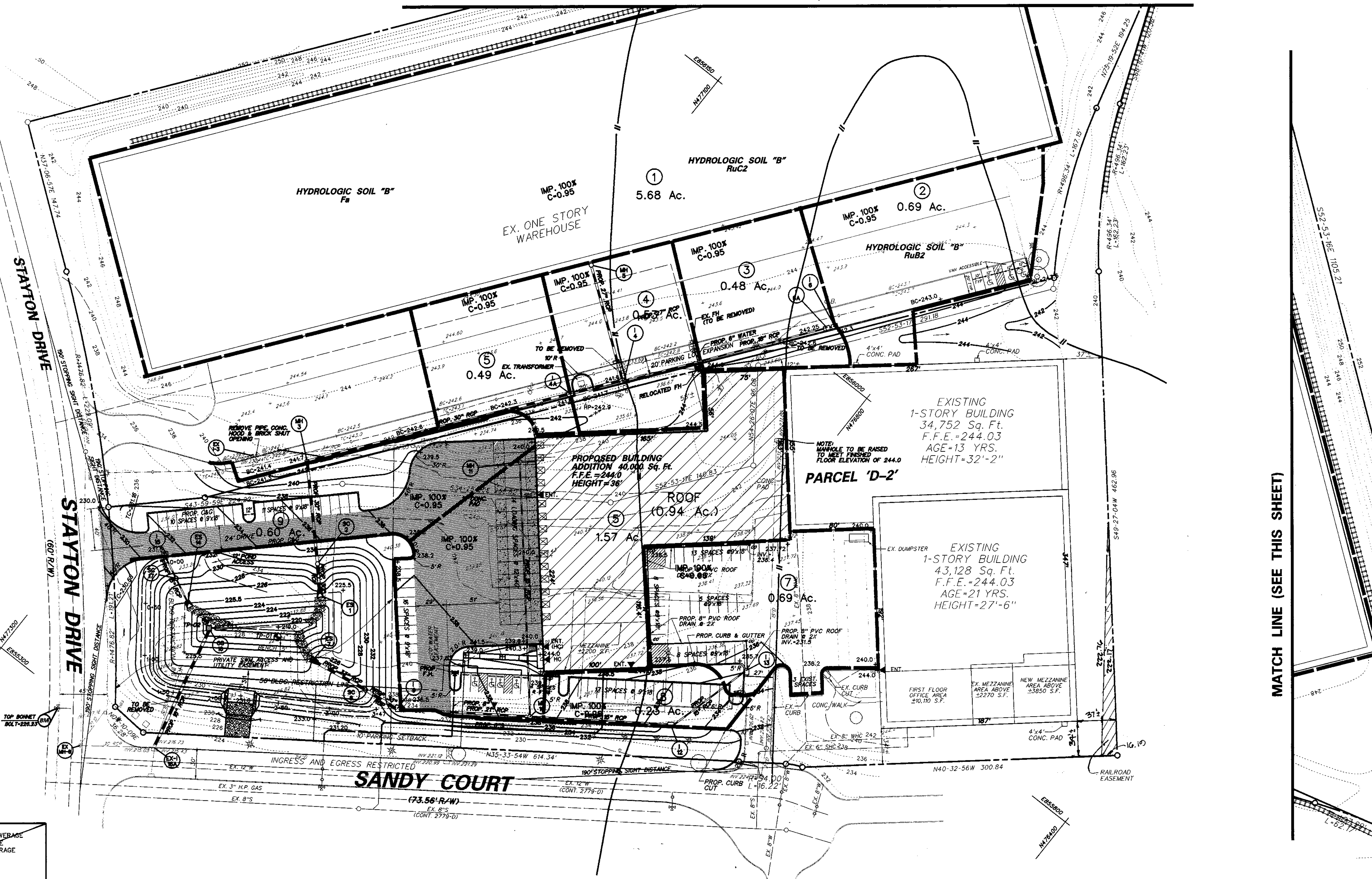
S.D.P. 99-159

MATCH LINE (SEE THIS SHEET)



VICINITY MAP
SCALE: 1" = 2000'

▲ HOWARD COUNTY GEODETIC CONTROL STATIONS



MATCH LINE (SEE THIS SHEET)

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS IN CONFORMANCE WITH THE MASTER PLAN OF WATER AND SEWERAGE FOR HOWARD COUNTY

HOWARD COUNTY HEALTH OFFICER _____ DATE _____

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

[Signature] 5/10/00
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

[Signature] 5/10/00
CHIEF, DIVISION OF LAND DEVELOPMENT DATE

[Signature] 5/10/00
DIRECTOR DATE

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

DIRECTOR _____ DATE _____

CHIEF, BUREAU OF ENGINEERING _____ DATE _____

BY THE DEVELOPER:

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 THE 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 INSPECTIONS BY THE HOWARD COUNTY SOIL CONSERVATION DISTRICT.

[Signature] 4-26-00
DEVELOPER DATE

BY THE ENGINEER:

I CERTIFY THAT THIS PLAN FOR POND CONSTRUCTION, EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS. THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT. I HAVE NOTIFIED THE DEVELOPER THAT HE/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.

[Signature] 4-26-00
ENGINEER DATE

IF 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.

NATURAL RESOURCES CONSERVATION DATE _____

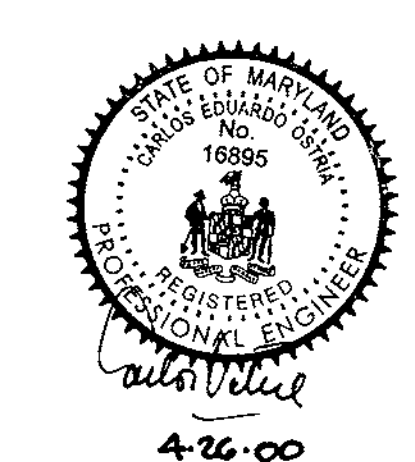
THESE PLANS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL, MEET THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

HOWARD SOIL CONSERVATION DISTRICT DATE _____

LEGEND

|| SOILS LINE

--- DRAINAGE DIVIDE



ACME PAPER & SUPPLY COMPANY

BUILDING ADDITION

A Resubdivision Of Parcels D-1 & E, BLOCK "C"
Plat No. 6287 & 3591
ZONING: 'M-2'

TAX MAP NO. 48 PARCEL D-2: PARCEL E-1, BLOCK "C"
Plat 14:112
SIXTH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
WATER CODE: B02, SEWER CODE: 4201900

Drafting	DRN	DATE	REVISIONS
Check	CHK		
Design	DSN		
Check	CHK		

KCI TECHNOLOGIES

KCI Technologies, Inc.
14409 Greenview Drive, Suite 102
Laurel, Maryland 20708
(301) 953-1821 (410) 792-8086
fax: (410) 792-7419

PREPARED FOR:
ACME PAPER AND SUPPLY CO.
8229 SANDY COURT
SAVAGE, MD 20763

STORM DRAIN DRAINAGE AREA MAP

SCALE: 1" = 50'

DATE: SEPTEMBER 29, 1999
SHEET 9 of 18

APP. 99.159

MATCH LINE (SEE THIS SHEET)

PARCEL E-1, BLOCK C
BALTIMORE WASHINGTON
INDUSTRIAL PARK
EXISTING D.A. = 8.64

HYDROLOGIC SOIL "B"
Fa

HYDROLOGIC SOIL "B"
Ru2

EX. ONE STORY
WAREHOUSE

HYDROLOGIC SOIL "B"
RuB2

EXISTING
1-STORY BUILDING
34,752 Sq. Ft.
F.F.E. = 244.03
AGE = 13 YRS.
HEIGHT = 32'-2"
2600' x 130'

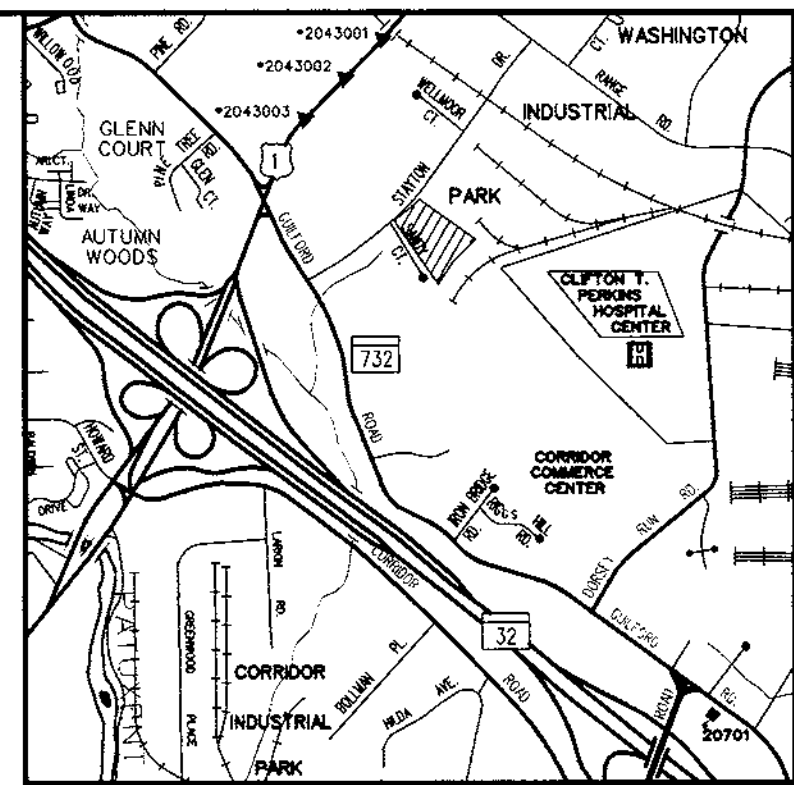
EXISTING
1-STORY BUILDING
43,128 Sq. Ft.
F.F.E. = 244.03
AGE = 21 YRS.
HEIGHT = 27'-6"
190' x 220'

PARCEL D-2
EXISTING D.A. = 3.91 Ac.

STAYTON DRIVE

SANDY COURT

MATCH LINE (SEE THIS SHEET)



VICINITY MAP
SCALE: 1" = 2000'

▲ HOWARD COUNTY GEODETIC CONTROL STATIONS

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS IN CONFORMANCE WITH THE MASTER PLAN OF WATER AND SEWERAGE FOR HOWARD COUNTY.

HOWARD COUNTY HEALTH OFFICER _____ DATE _____

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.

[Signature] 5/10/00
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

[Signature] 5/18/00
CHIEF, DIVISION OF LAND DEVELOPMENT DATE

[Signature] 5/13/00
DIRECTOR DATE

APPROVED: FOR STORM DRAINAGE SYSTEMS AND PUBLIC ROADS, PUBLIC SEWERAGE AND WATERS, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS.

DIRECTOR _____ DATE _____

CHIEF, BUREAU OF ENGINEERING _____ DATE _____

BY THE DEVELOPER:

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 THE 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 INSPECTIONS BY THE HOWARD COUNTY SOIL CONSERVATION DISTRICT.

[Signature] 4-28-00
DEVELOPER DATE

BY THE ENGINEER:

I CERTIFY THAT THIS PLAN FOR POND CONSTRUCTION, EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS. THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT. I HAVE NOTIFIED THE DEVELOPER THAT HE/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.

[Signature] 4-26-00
ENGINEER DATE

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.

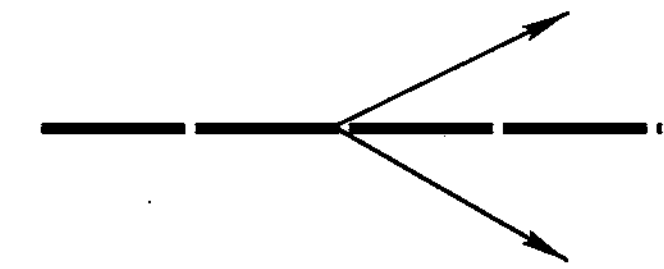
NATURAL RESOURCES CONSERVATION DATE _____

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

HOWARD SOIL CONSERVATION DISTRICT DATE _____

LEGEND

_____ tc

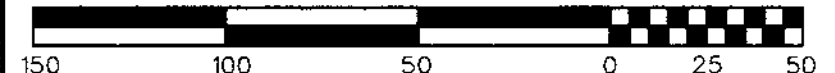


EXISTING DRAINAGE DIVIDE



ACME PAPER & SUPPLY COMPANY
BUILDING ADDITION

A Resubdivision Of Parcels D-1 & E, BLOCK "C"
Plat No. 6287 & 3591
ZONING: 'M-2'
TAX MAP NO. 48 PARCEL D-2; PARCEL E-1, BLOCK "C"
Plat 14-112 SIXTH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
WATER CODE: B02, SEWER CODE: 4201900



SCALE: 1" = 50'
DATE: AUGUST 13, 1999
SHEET 10 OF 18

SDP-99-159

Drafting	DRN	DATE	REVISIONS
Check	CHK		
Design	DSN		
Check	CHK		



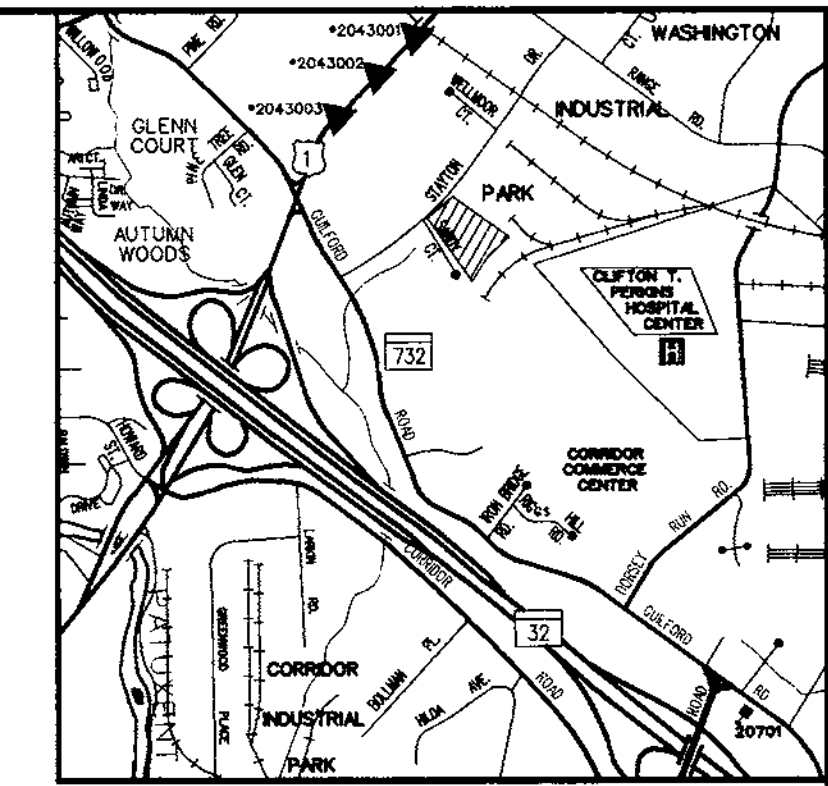
KCI Technologies, Inc.
14409 Greenview Drive, Suite 102
Laurel, Maryland 20708
(301) 953-1821 (410) 792-8086
fax: (410) 792-7419

PREPARED FOR:
ACME PAPER AND SUPPLY CO.
8229 SANDY COURT
SAVAGE, MD 20763

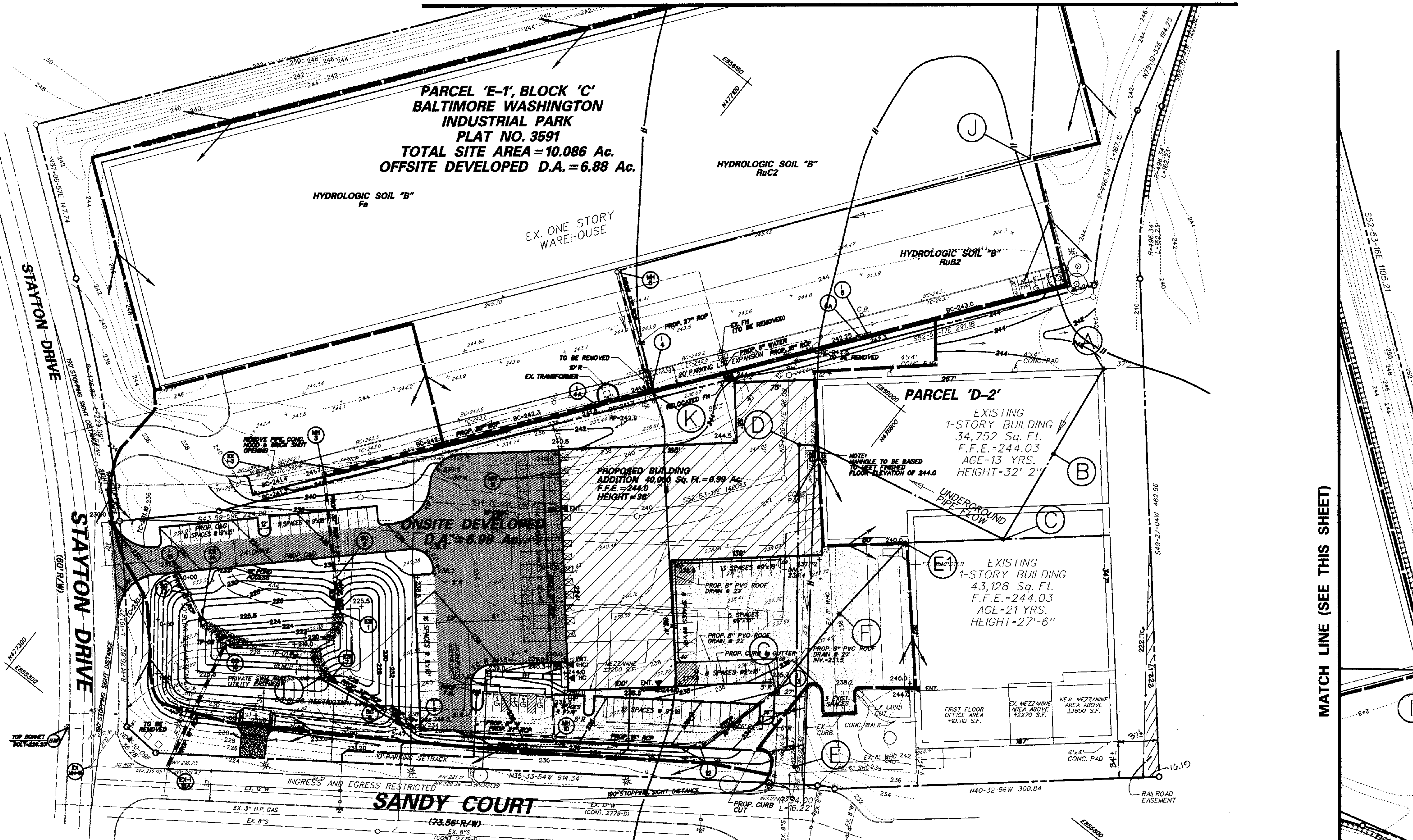
EXISTING DRAINAGE AREA MAP

SCDRAINMAP

MATCH LINE (SEE THIS SHEET)



VICINITY MAP
SCALE: 1" = 2000'
▲ HOWARD COUNTY GEODETIC CONTROL STATIONS



MATCH LINE (SEE THIS SHEET)

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS IN CONFORMANCE WITH THE MASTER PLAN OF WATER AND SEWERAGE FOR HOWARD COUNTY.

HOWARD COUNTY HEALTH OFFICER _____ DATE _____

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.

Mike Damann 5/10/00
CHIEF, DEVELOPMENT ENGINEERING DIVISION

Andy Handley 5/10/00
CHIEF, DIVISION OF LAND DEVELOPMENT

Paul Korte 5/10/00
DIRECTOR

APPROVED: FOR STORM DRAINAGE SYSTEMS AND PUBLIC ROADS, PUBLIC SEWAGE AND WATER, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS.

DIRECTOR _____ DATE _____

CHIEF, BUREAU OF ENGINEERING _____ DATE _____

BY THE DEVELOPER:

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 THE 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. ALSO AUTHORIZES PERIODIC ON-SITE INSPECTIONS BY THE HOWARD COUNTY SOIL CONSERVATION DISTRICT.

Edith V.P. 4-26-00
DEVELOPER DATE

BY THE ENGINEER:

I CERTIFY THAT THIS PLAN FOR POND CONSTRUCTION, EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS. THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT. I HAVE NOTIFIED THE DEVELOPER THAT HE/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.

Carl Drive 4-26-00
ENGINEER DATE

IF 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.

Clay Sim 4-26-00
NATURAL RESOURCES CONSERVATION DATE

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

John Li 5/10/00
HOWARD SOIL CONSERVATION DISTRICT DATE

Check	DRN	DATE	REVISIONS
Check	CHK		
Design	DSN		
Check	CHK		

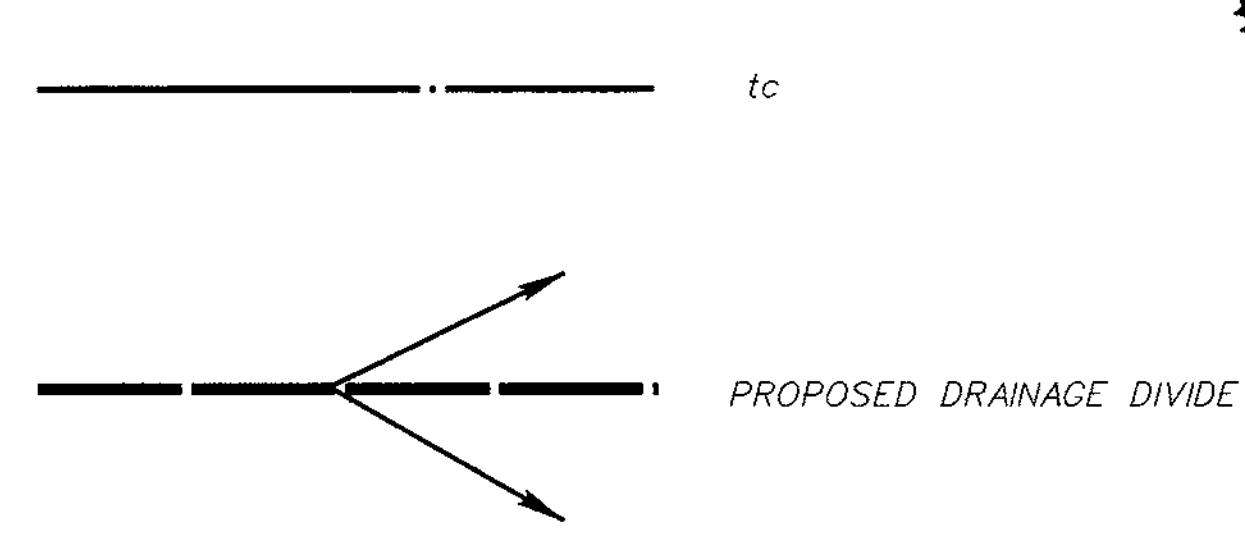


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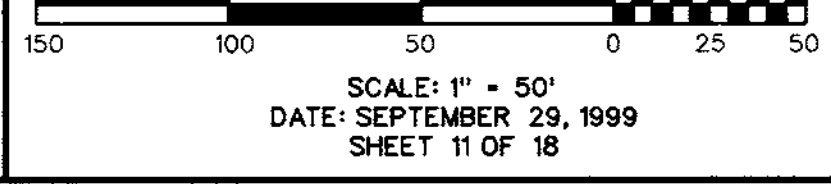
PREPARED FOR:
ACME PAPER AND SUPPLY CO.
8229 SANDY COURT
SAVAGE, MD 20763

PROPOSED DRAINAGE AREA MAP

LEGEND



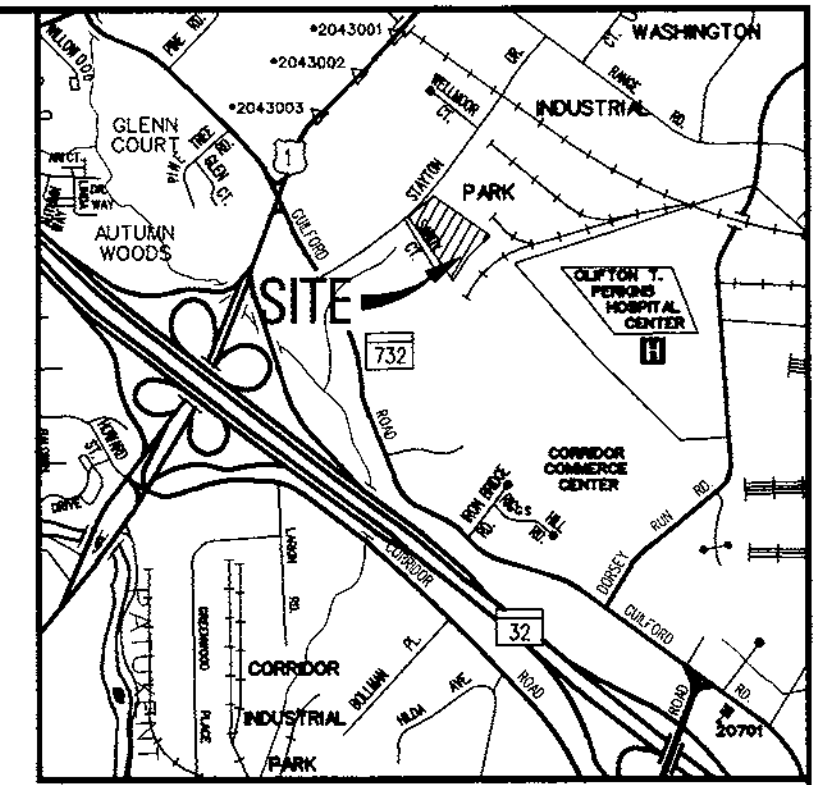
ACME PAPER & SUPPLY COMPANY
BUILDING ADDITION
A Resubdivision of Parcels D-1 & E, BLOCK "C"
Plat No. 6287 & 3591
ZONING: "M-2"
TAX MAP NO. 48 PARCEL D-2; PARCEL E-1, BLOCK "C"
Plat 14-112 SIXTH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
WATER CODE: B02, SEWER CODE: 4201900



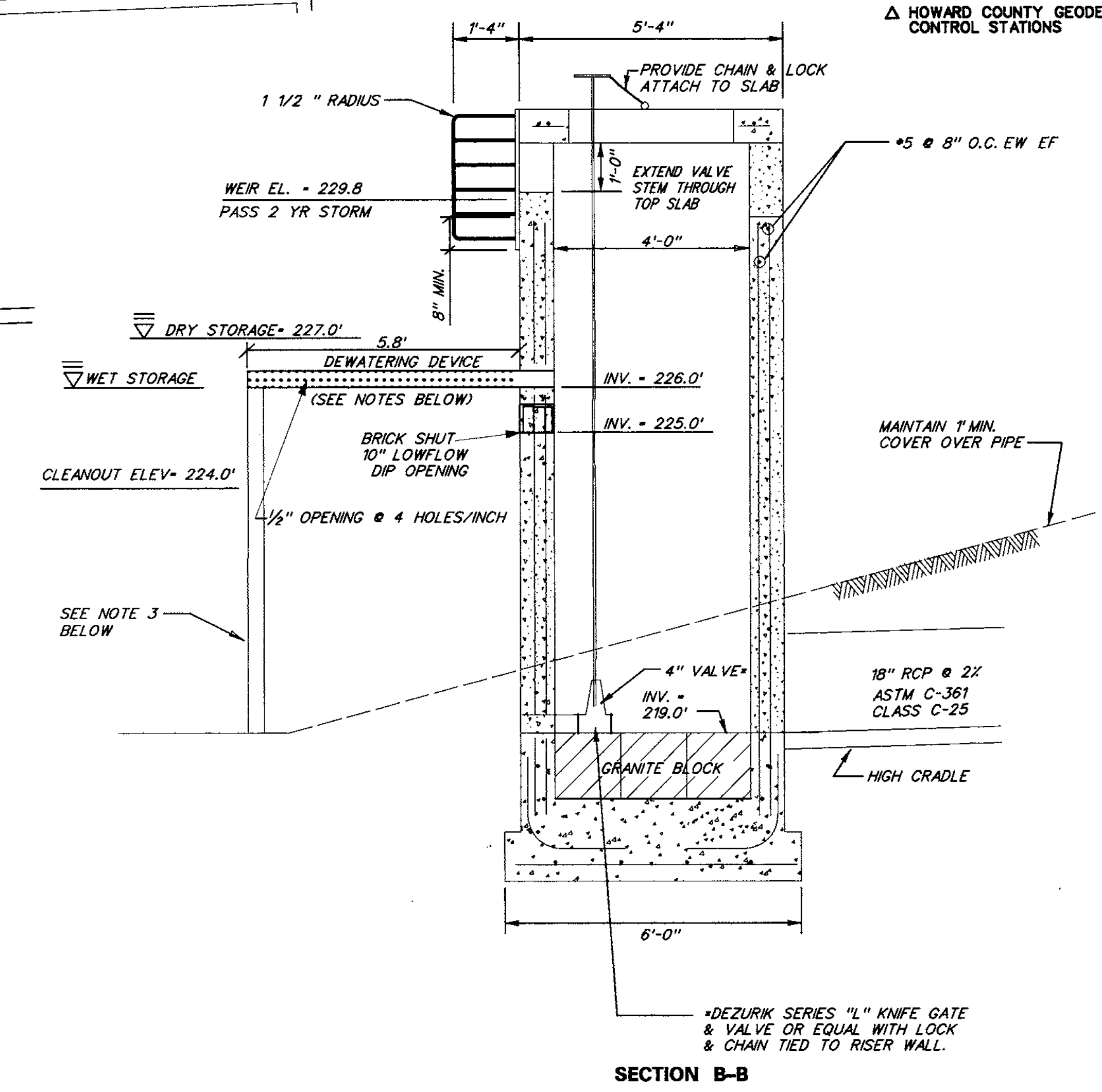
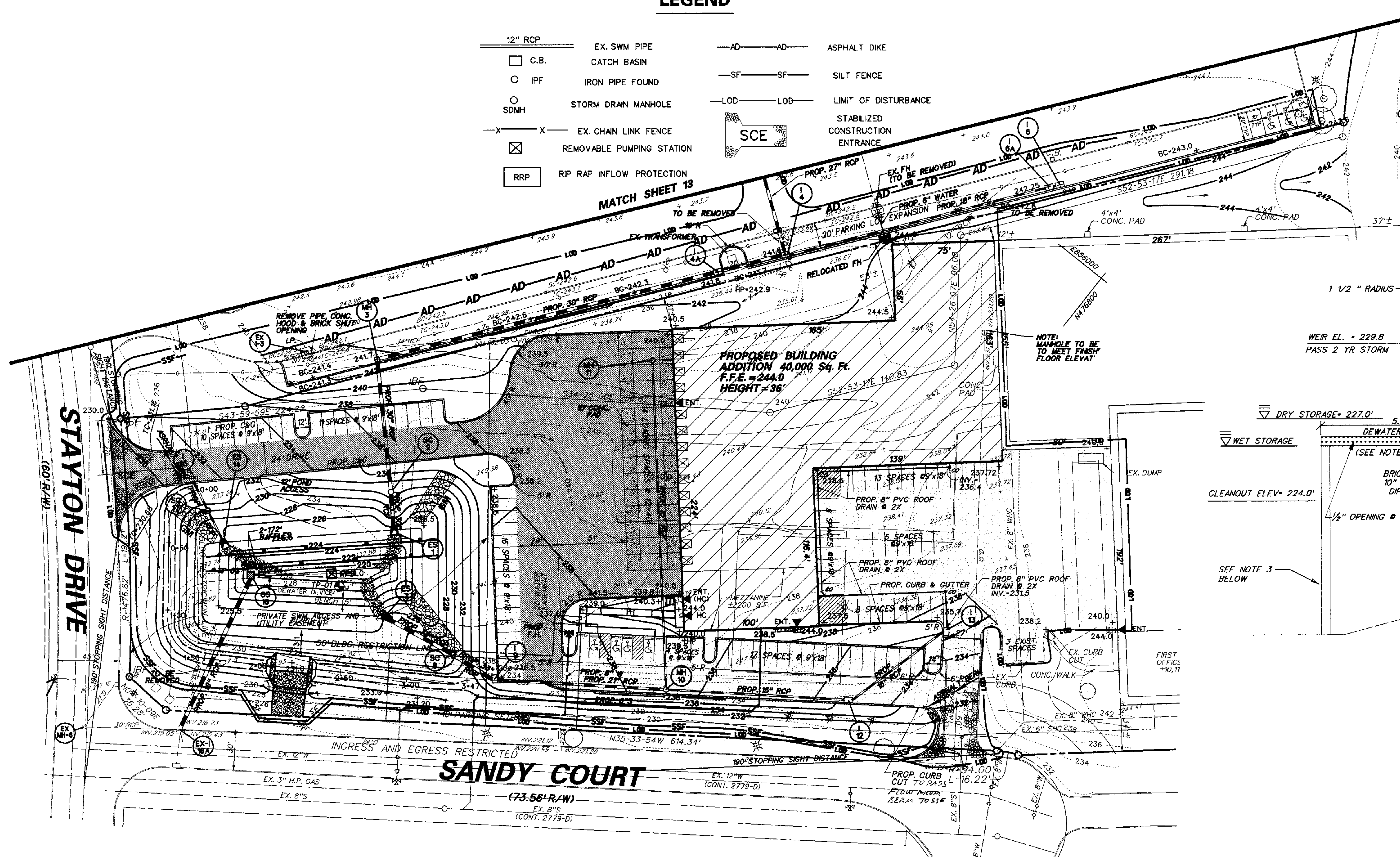
SDP.99.159

LEGEND

12" RCP	EX. SWM PIPE	AD	AD	ASPHALT DIKE
C.B.	CATCH BASIN	SF	SF	SILT FENCE
IPF	IRON PIPE FOUND	LOD	LOD	LIMIT OF DISTURBANCE
SDMH	STORM DRAIN MANHOLE			STABILIZED CONSTRUCTION ENTRANCE
X	EX. CHAIN LINK FENCE			
⊠	REMOVABLE PUMPING STATION			
RRP	RIP RAP INFLOW PROTECTION			



VICINITY MAP
SCALE: 1" = 2000'
△ HOWARD COUNTY GEODETIC CONTROL STATIONS



SECTION B-B
SEDIMENT CONTROL STRUCTURE
SCALE: 1/2" = 1'

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS IN CONFORMANCE WITH THE MASTER PLAN OF WATER AND SEWERAGE FOR HOWARD COUNTY.

HOWARD COUNTY HEALTH OFFICER _____ DATE _____

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.

Chief Development Engineering Division 5/16/00 DATE

Chief, Division of Land Development 5/16/00 DATE

Director 5/19/00 DATE

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

DIRECTOR _____ DATE _____

CHEF BUREAU OF ENGINEERING _____ DATE _____

BY THE DEVELOPER:

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 THE 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 INSPECTIONS BY THE HOWARD COUNTY SOIL CONSERVATION DISTRICT.

Developer 4-26-00 DATE

BY THE ENGINEER:

I CERTIFY THAT THIS PLAN FOR POND CONSTRUCTION, EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS. THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT. I HAVE NOTIFIED THE DEVELOPER THAT HE/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 4-26-00 DATE

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.

Professional Engineer 5/13/00 DATE

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

Professional Engineer 5/13/00 DATE

- CONSTRUCTION SPECIFICATIONS**
- The total area of the perforations must be greater than 2 times the area of the internal orifice.
 - The perforated portion of the draw-down device shall be wrapped with 1/2" hardware cloth and geotextile fabric. The geotextile fabric shall meet the specifications for Geotextile Class E.
 - Provide support of draw-down device to prevent sagging and floatation. An acceptable preventative measure is to stake both sides of draw-down device with 1" steel angle, or 1" by 4" square or 2" round wooden posts set 3' minimum into the ground then joining them to the device by wrapping with 12 gauge minimum wire.



ACME PAPER & SUPPLY COMPANY
BUILDING ADDITION
A Resubdivision Of Parcels D-1 & E, BLOCK "C"
Plot No. 6287 & 3591
ZONING: 'M-2'
TAX MAP NO. 48 PARCEL D-2; PARCEL E-1, BLOCK "C"
Plat 14112 SIXTH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
WATER CODE: B02, SEWER CODE: 4201900

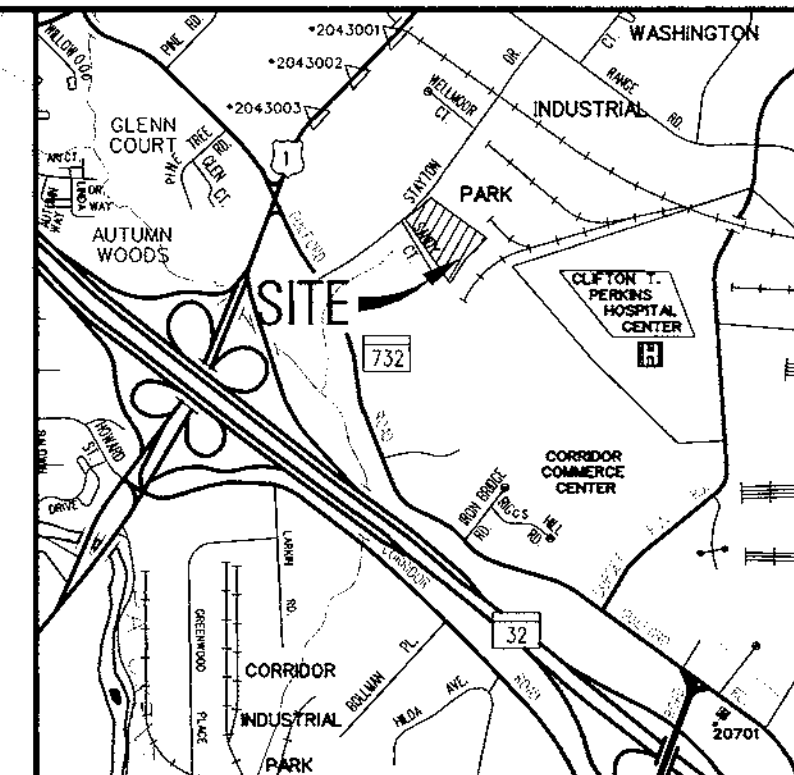
Drafting	DRN	DATE	REVISIONS
Check	CHK		
Design	DSN		
Check	CHK		

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(301) 953-1821 (410) 792-8086
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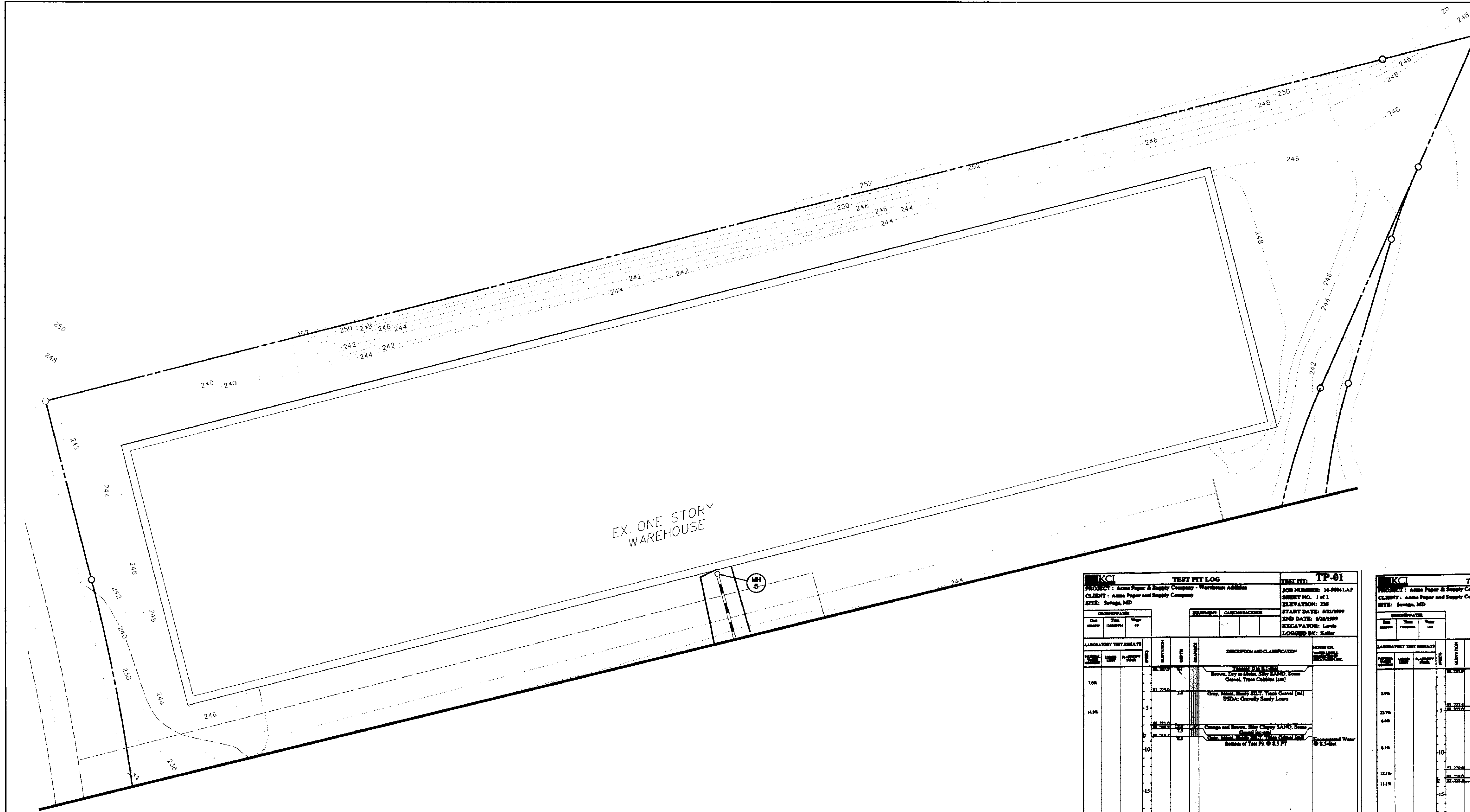
PREPARED FOR:
ACME PAPER AND SUPPLY CO.
8229 SANDY COURT
SAVAGE, MD 20763

SEDIMENT CONTROL PLAN

SCALE: 1" = 40'
DATE: AUGUST 13, 1999
SHEET 12 OF 18



VICINITY MAP
SCALE: 1" = 2000'
△ HOWARD COUNTY GEODETIC CONTROL STATIONS



EX. ONE STORY WAREHOUSE

TEST PIT LOG			TEST PIT: TP-01
PROJECT: Acme Paper & Supply Company - Warehouse Addition			JOB NUMBER: 16-0064.L.P
CLIENT: Acme Paper and Supply Company			SHEET NO. 1 of 1
SITE: Savage, MD			ELEVATION: 238
EQUIPMENT: CASE 130 BACKHOE			START DATE: 5/25/00
LABORATORY TEST RESULTS			END DATE: 5/25/00
LOGGED BY: Editor			
DEPTH (ft)	DESCRIPTION AND CLARIFICATION	NOTES ON TEST PIT LOG	
0.00	Surface		
1.00	Gravel, Trace Cobbles (sm)		
2.00	Clay, Mott. Sandy SILT, Trace Gravel (sm)		
3.00	USDA: Clayey Sandy Loam		
4.00	Clay, Mott. Sandy SILT, Trace Gravel (sm)		
5.00	USDA: Clayey Sandy Loam		
6.00	Clay, Mott. Sandy SILT, Trace Gravel (sm)		
7.00	USDA: Clayey Sandy Loam		
8.00	Clay, Mott. Sandy SILT, Trace Gravel (sm)		
9.00	USDA: Clayey Sandy Loam		
10.00	Bottom of Test Pit @ 8.5 FT		

TEST PIT LOG			TEST PIT: TP-02
PROJECT: Acme Paper & Supply Company - Warehouse Addition			JOB NUMBER: 16-0064.L.P
CLIENT: Acme Paper and Supply Company			SHEET NO. 1 of 1
SITE: Savage, MD			ELEVATION: 233
EQUIPMENT: CASE 130 BACKHOE			START DATE: 5/25/00
LABORATORY TEST RESULTS			END DATE: 5/25/00
LOGGED BY: Editor			
DEPTH (ft)	DESCRIPTION AND CLARIFICATION	NOTES ON TEST PIT LOG	
0.00	Surface		
1.00	Gravel, Trace Cobbles (sm)		
2.00	Clay, Mott. Sandy SILT, Trace Gravel (sm)		
3.00	USDA: Clayey Sandy Loam		
4.00	Clay, Mott. Sandy SILT, Trace Gravel (sm)		
5.00	USDA: Clayey Sandy Loam		
6.00	Clay, Mott. Sandy SILT, Trace Gravel (sm)		
7.00	USDA: Clayey Sandy Loam		
8.00	Clay, Mott. Sandy SILT, Trace Gravel (sm)		
9.00	USDA: Clayey Sandy Loam		
10.00	Bottom of Test Pit @ 13.5 FT		

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS IN CONFORMANCE WITH THE MASTER PLAN OF WATER AND SEWERAGE FOR HOWARD COUNTY.

HOWARD COUNTY HEALTH OFFICER _____ DATE _____

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.

Wanda D. Williams 5/10/00
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

Cinda Harvath 5/16/00
CHIEF, DIVISION OF LAND DEVELOPMENT DATE

Paul H. Smith 5/19/00
DIRECTOR DATE

APPROVED: FOR STORM DRAINAGE SYSTEMS AND PUBLIC ROADS, PUBLIC SEWAGE AND WATER, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS.

DIRECTOR _____ DATE _____

CHIEF, BUREAU OF ENGINEERING _____ DATE _____

BY THE DEVELOPER:

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 THE 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 INSPECTIONS BY THE HOWARD COUNTY SOIL CONSERVATION DISTRICT.

Wanda D. Williams 4-26-00
DEVELOPER DATE

BY THE ENGINEER:

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Cheryl Sims 4-26-00
ENGINEER DATE

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.

Cheryl Sims 5/3/00
NATURAL RESOURCES CONSERVATION DATE

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

Wanda D. Williams 5/3/00
HOWARD SOIL CONSERVATION DISTRICT/ DATE

KCI TECHNOLOGIES
14409 Greenview Drive, Suite 102
Laurel, Maryland 20708
(301) 953-1821 (410) 792-8086
fax: (410) 792-7419

PREPARED FOR:
ACME PAPER AND SUPPLY CO.
8229 SANDY COURT
SAVAGE, MD 20763

SEDIMENT CONTROL PLAN

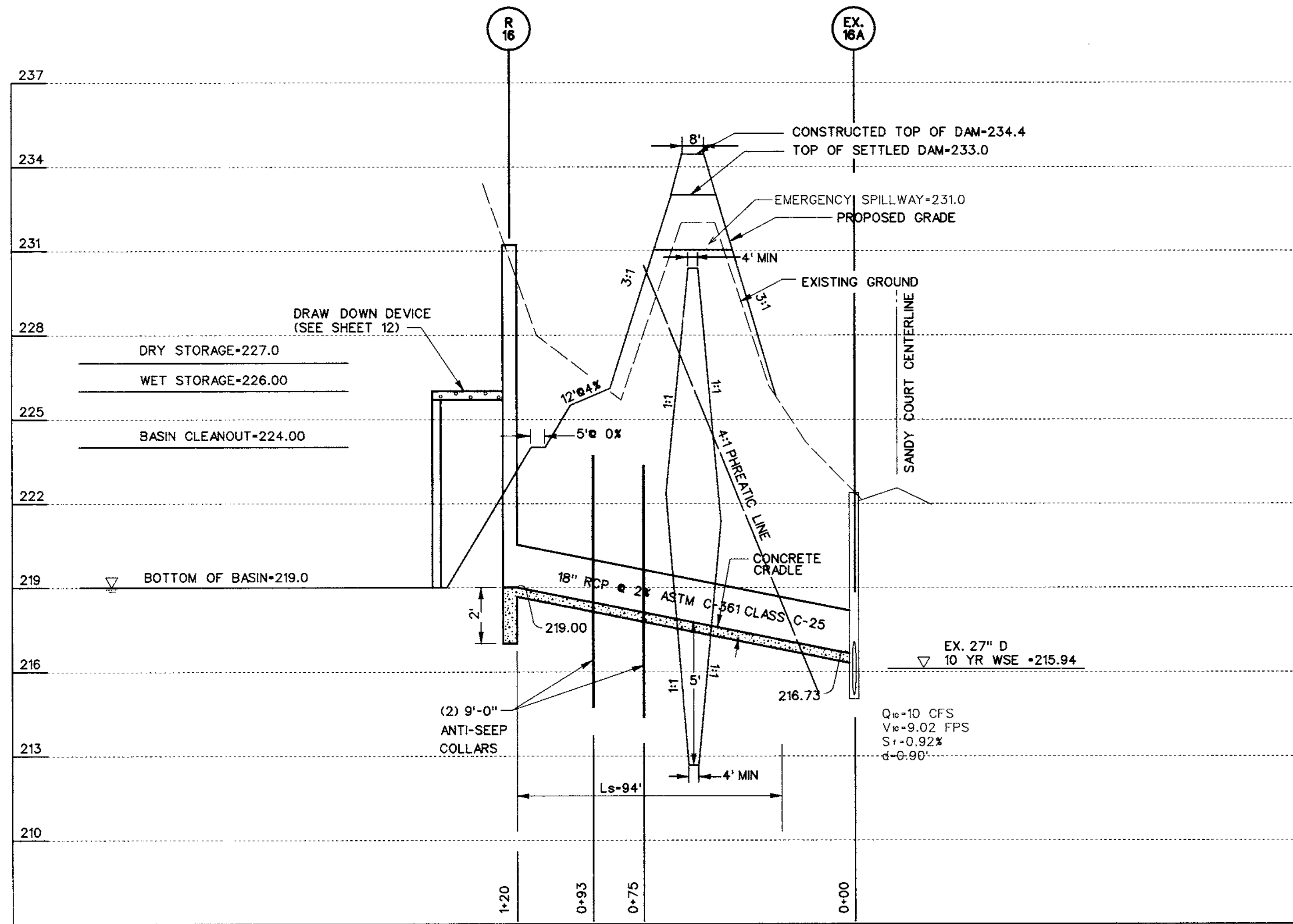


ACME PAPER & SUPPLY COMPANY
BUILDING ADDITION
A Re subdivision Of Parcels D-1 & E, BLOCK "C"
Plat No. 6287 & 3591
ZONING: "M-2"
TAX MAP NO. 48 PARCEL D-2/ PARCEL E-1, BLOCK "C"
Plat 14112 SIXTH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
WATER CODE: B02, SEWER CODE: 4201900

SCALE: 1" = 40'
DATE: SEPTEMBER 29, 1999
SHEET 13 of 18

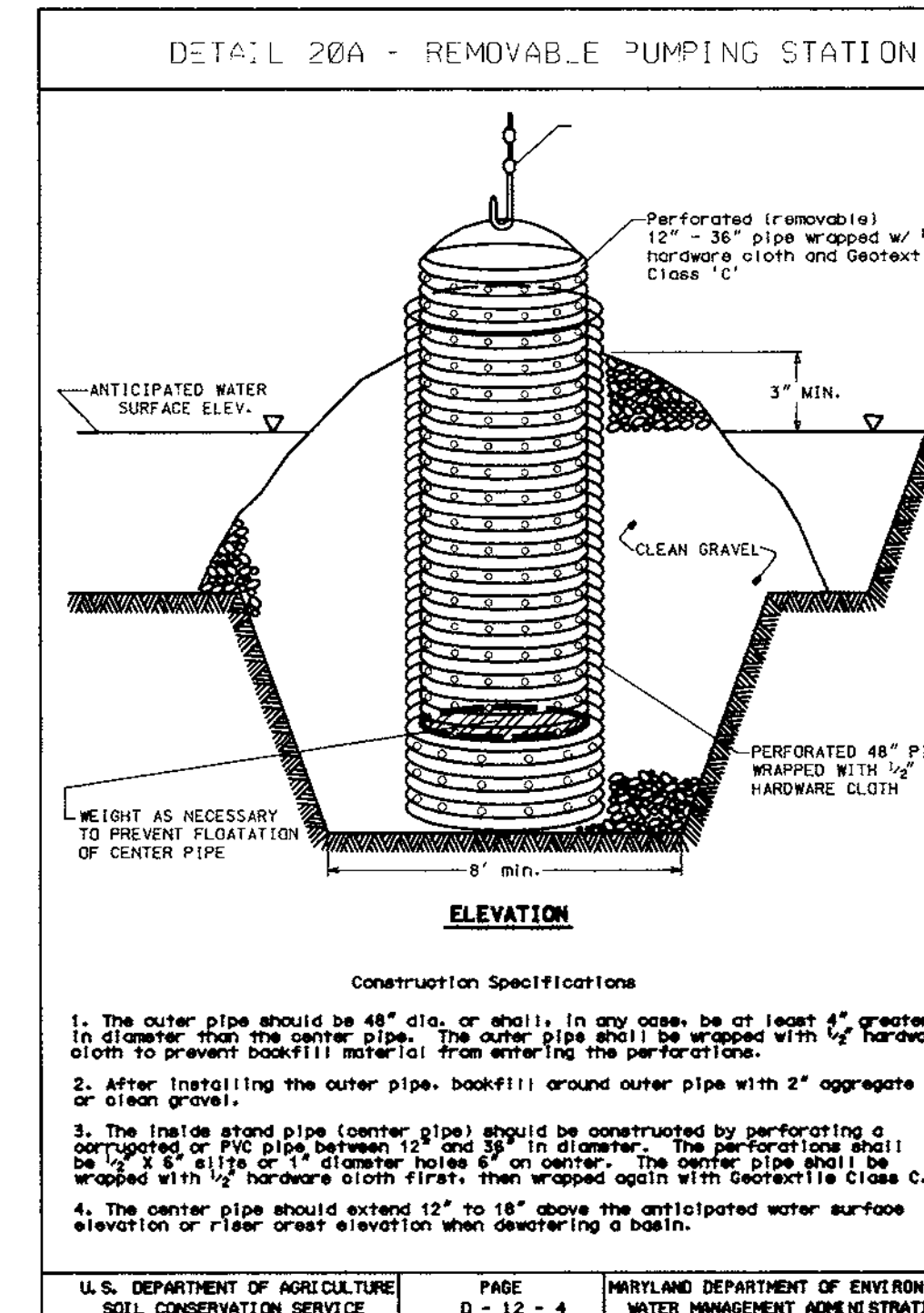
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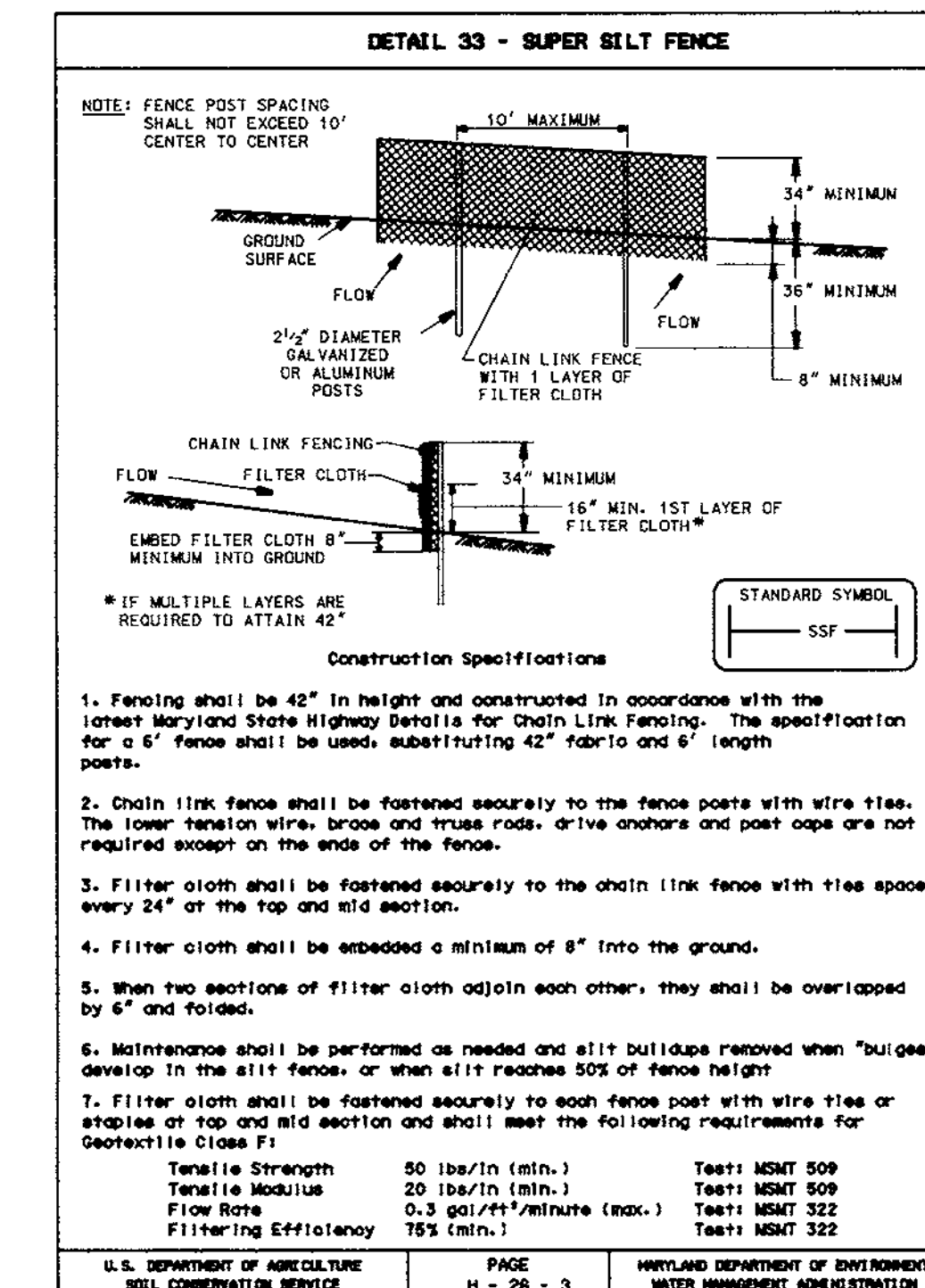


PROFILE THROUGH PRINCIPLE SPILLWAY

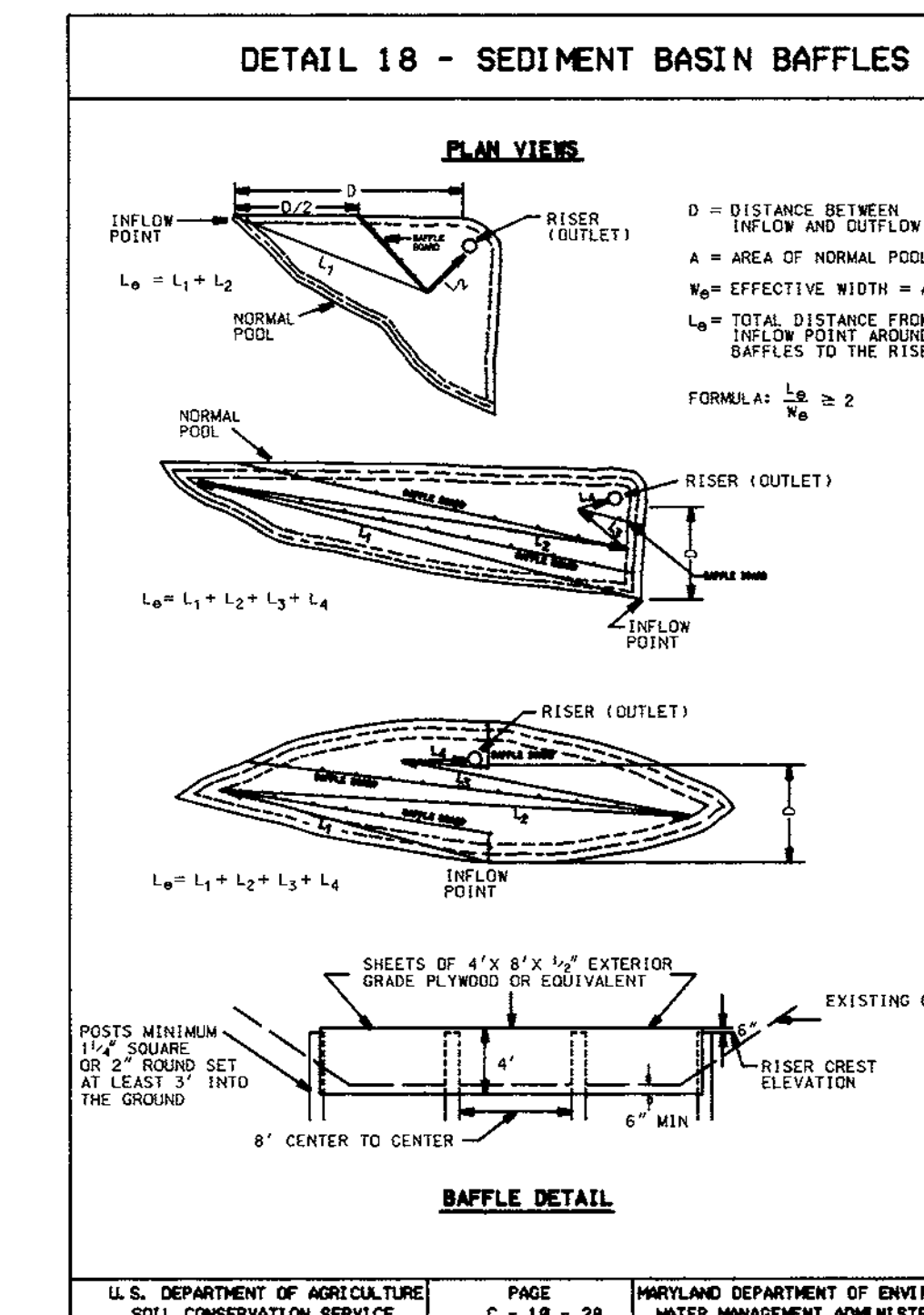
SCALE: 1"=30' HORIZ.
1"=3' VERT.



U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE PAGE 0-12-4 MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION



U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE PAGE H-28-3 MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION



U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE PAGE 0-18-28 MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

DESIGN CRITERIA

Slope	Slope Steepness	Slope Length (Maximum)	Silt Fence Length (Maximum)
0 - 10%	0 - 10:1	Unlimited	Unlimited
10 - 20%	10:1 - 5:1	200 feet	1,500 feet
20 - 33%	5:1 - 3:1	100 feet	1,000 feet
33 - 50%	3:1 - 2:1	100 feet	500 feet
50% +	2:1 +	50 feet	250 feet

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE PAGE H-28-3a MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS IN CONFORMANCE WITH THE MASTER PLAN OF WATER AND SEWERAGE FOR HOWARD COUNTY

HOWARD COUNTY HEALTH OFFICER _____ DATE _____

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

William D. Williams 5/10/00
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

Andy Hamilton 5/15/00
CHIEF, DIVISION OF LAND DEVELOPMENT DATE

David R. Smith 5/15/00
DIRECTOR DATE

APPROVED FOR STORM DRAINAGE SYSTEMS AND PUBLIC ROADS, PUBLIC SEWERAGE AND WATER

HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

DIRECTOR _____ DATE _____

CHIEF, BUREAU OF ENGINEERING _____ DATE _____

BY THE DEVELOPER:

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 THE 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 INSPECTIONS BY THE HOWARD COUNTY SOIL CONSERVATION DISTRICT.

William D. Williams 4-26-00
DEVELOPER DATE

BY THE ENGINEER:

I CERTIFY THAT THIS PLAN FOR POND CONSTRUCTION, EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS. THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT. I HAVE NOTIFIED THE DEVELOPER THAT HE/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.

David R. Smith 4-26-00
ENGINEER DATE

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.

Clayton S. Smith 6/5/00
NATURAL RESOURCES CONSERVATION DATE

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

William D. Williams 5/15/00
HOWARD SOIL CONSERVATION DISTRICT DATE

Drawn	JJR	DATE	REVISIONS
Check	ZH		
Design	CGW		
Check	CEO		

KCI TECHNOLOGIES, INC.

14409 Greenview Drive, Suite 102
Laurel, Maryland 20708
(301) 953-1821 (410) 792-8086
Fax: (410) 792-7419

PREPARED FOR:
ACME PAPER AND SUPPLY CO.
8229 SANDY COURT
SAVAGE, MD 20763

SEDIMENT CONTROL DETAILS

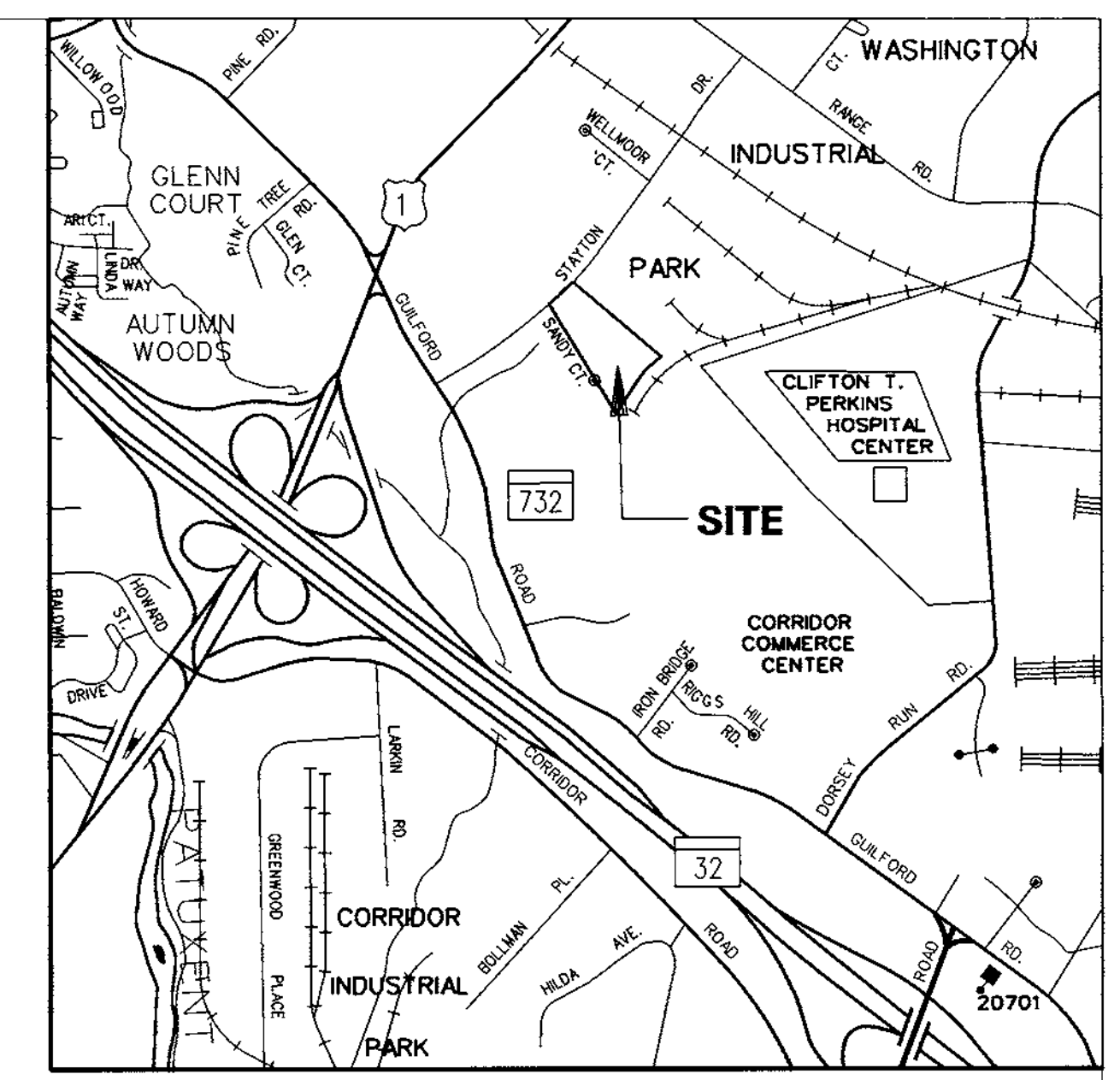
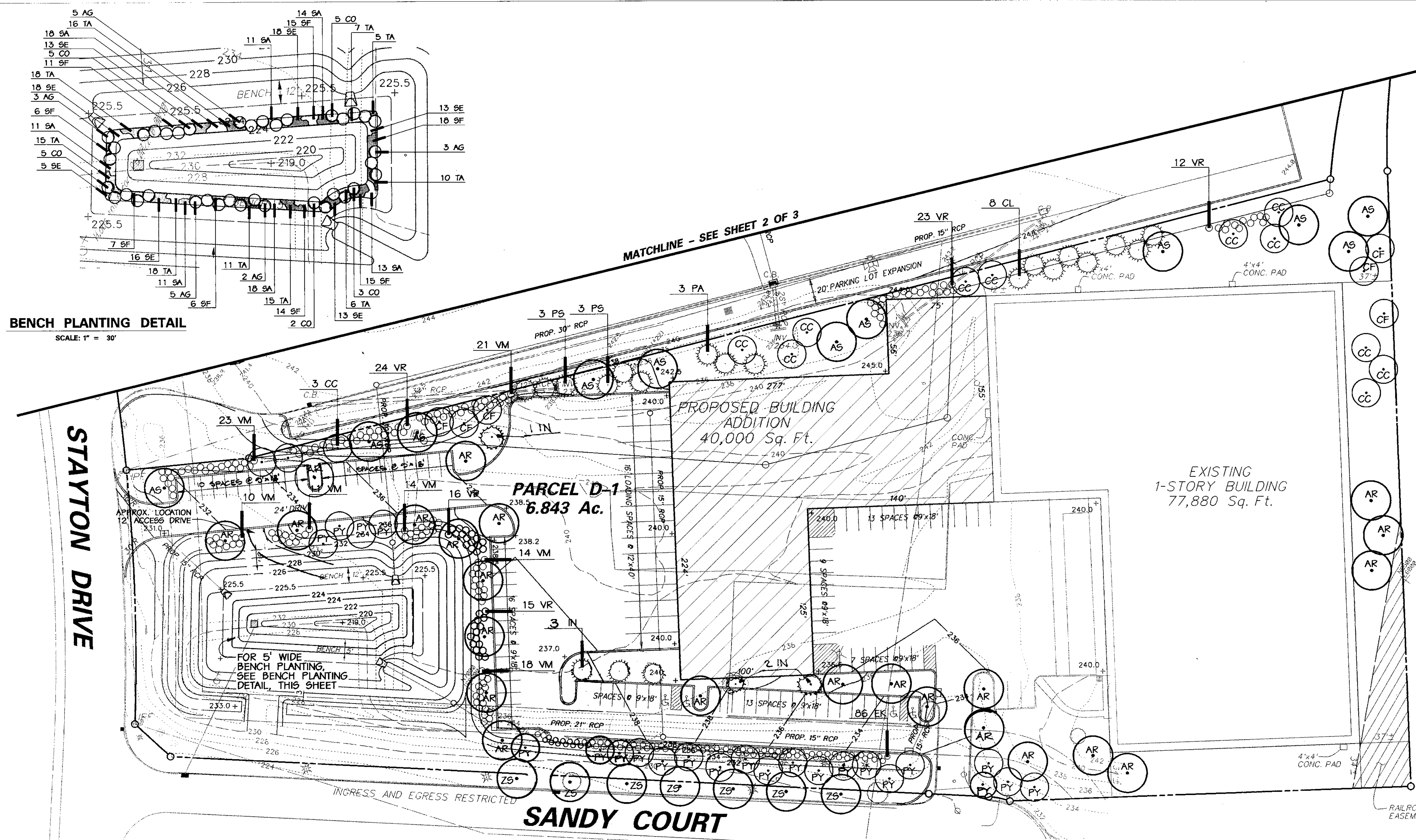
ACME PAPER & SUPPLY COMPANY

A Re subdivision Of Parcels D-1 & E, BLOCK "C"
Plot No. 6287 & 3591
ZONING: "M-2"
TAX MAP NO. 48 PARCEL D-2; PARCEL E-1, BLOCK "C"
SIXTH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
WATER CODE: B02 SEWER CODE: 4201900
Plat 14-112

SCALE: AS SHOWN
DATE: AUGUST 13, 1999
SHEET 14 OF 18

John Blalock 4-26-00
REGISTERED PROFESSIONAL ENGINEER

CDP 99.159



Note: Developer is responsible for landscape surety in the amount of \$31,250.00 as part of the Developer's Agreement.

PLANT SCHEDULE

KEY	QUANTITY	BOTANICAL/Common Name	SIZE	ROOT	COMMENTS
AR	23	Acer rubrum 'October Glory'/October Glory Red Maple	2.5" Cal.	B # B	Full Crown
AS	11	Acer saccharum 'Green Mountain'/Green Mountain Sugar Maple	2.5" Cal.	B # B	Full Crown
CC	14	Cercis canadensis/Eastern Redbud	1.5" Cal.	B # B	Multi-stem, 3 stem minimum
CF	6	Cornus florida/Flowering Dogwood	1.5" Cal.	B # B	
CL	8	Cupressocyparis leylandi/Leyland Cypress	5'-6" Ht.	B # B	
EK	86	Euonymus kiautschovicus 'Manhattan'/Manhattan Euonymus	24"-30" Ht.	B # B	Plant 4' o.c.
IN	6	Ilex X 'Nellie R. Stevens'/Nellie R. Stevens Holly	5'-6" Ht.	B # B	
PA	3	Picea abies/Norway Spruce	5'-6" Ht.	B # B	
PS	6	Pinus strobus/Eastern White Pine	5'-6" Ht.	B # B	
PY	23	Prunus yedoensis/Yoshino Cherry	1.5" Cal.	B # B	Matched specimens
VM	111	Viburnum plicatum var. tomentosum 'Mariesii'/Marie's Doublefile Viburnum	3'-4" Ht.	B # B	Plant 5' o.c.
VR	90	Viburnum rhytidophyllum/Leatherleaf Viburnum	3'-4" Ht.	B # B	Plant 5' o.c.
ZS	7	Zelkova serrata 'Green Vase'/Green Vase Japanese Zelkova	2.5" Cal.	B # B	Full Crown

BENCH PLANTINGS (SUBMERGED)

KEY	QUANTITY	BOTANICAL/Common Name	SIZE	ROOT	COMMENTS
AG	18	Alnus glutinosa/Common Alder	1 gallon	Cont.	Plant 6'-8' o.c.
CO	20	Cephalanthus occidentalis/Buttonbush	1 gallon	Cont.	Plant 6'-8' o.c.
SA	96	Spartina alterniflora/Smooth Cordgrass	Peat pot	Cont.	Plant 18" o.c.
SE	96	Sparganium eurycarpum/Giant Bur-reed	Peat pot	Cont.	Plant 18" o.c.
SF	92	Scirpus fluviatilis/River bulrush	Peat pot	Cont.	Plant 18" o.c.
TA	121	Typha angustifolia/Narrow-leaved Cattail	Peat pot	Cont.	Plant 18" o.c.

BY THE DEVELOPER:
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 THE 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 SOL CONSERVATION DISTRICT WITH AN "AS-BUILT" PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTIONS BY THE HOWARD COUNTY SOL CONSERVATION DISTRICT.

[Signature] 4-26-00
DEVELOPER DATE

BY THE ENGINEER:
I CERTIFY THAT THIS PLAN FOR POND CONSTRUCTION, EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS. THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOL CONSERVATION DISTRICT. I HAVE NOTIFIED THE DEVELOPER THAT HE/SHE MUST ENGAGE A REGISTERED PROFESSIONAL ENGINEER TO SUPERVISE POND CONSTRUCTION AND PROVIDE THE HOWARD SOL CONSERVATION DISTRICT WITH AN "AS-BUILT" PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION.

[Signature] 4-26-00
ENGINEER DATE

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

~~NATURAL RESOURCES CONSERVATION DATE~~

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

~~HOWARD SOL CONSERVATION DISTRICT DATE~~

APPROVED: DEPARTMENT OF PLANNING & ZONING

[Signature] 5/10/00
Chief, Development Engineering Division Date

[Signature] 5/15/00
Chief, Division of Land Development Date

[Signature] 5/16/00
Director Date

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

DIRECTOR OF PUBLIC WORKS DATE CHIEF, BUREAU OF WASTE MGMT. DATE

CHIEF, BUREAU OF HIGHWAYS DATE CHIEF, STORMWATER MGMT. DIV. DATE

ACME PAPER SUPPLY COMPANY

(A Resubdivision Of Parcels D-1 & E, BLOCK "C" Plat No. 6287 & 3591 ZONING: "M-2")

TAX MAP NO. 48 PARCEL D-1: PARCEL E-1: BLOCK "C" SIXTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND Plat 14112

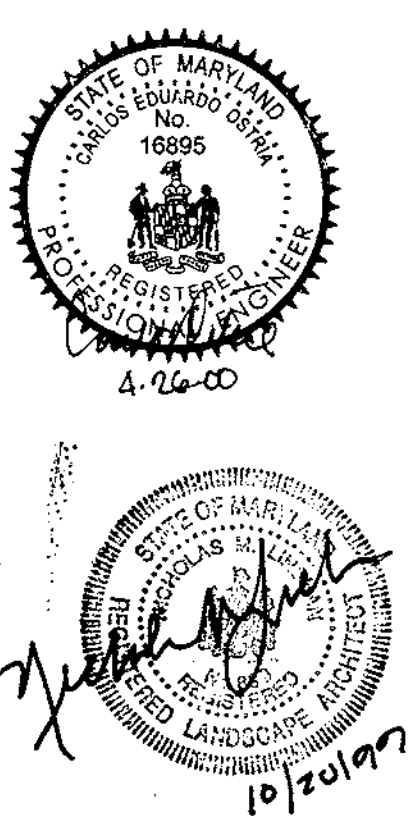
SCALE: 1" = 40'
DATE: JUNE 3, 1999
SHEET 16 of 18

DWG/PATH	Drafting DRN	DATE	REVISIONS
Check	CHK	9/6/99	REVISIONS PER COUNTY COMMENTS
Design	DSN		
Check	CHK		

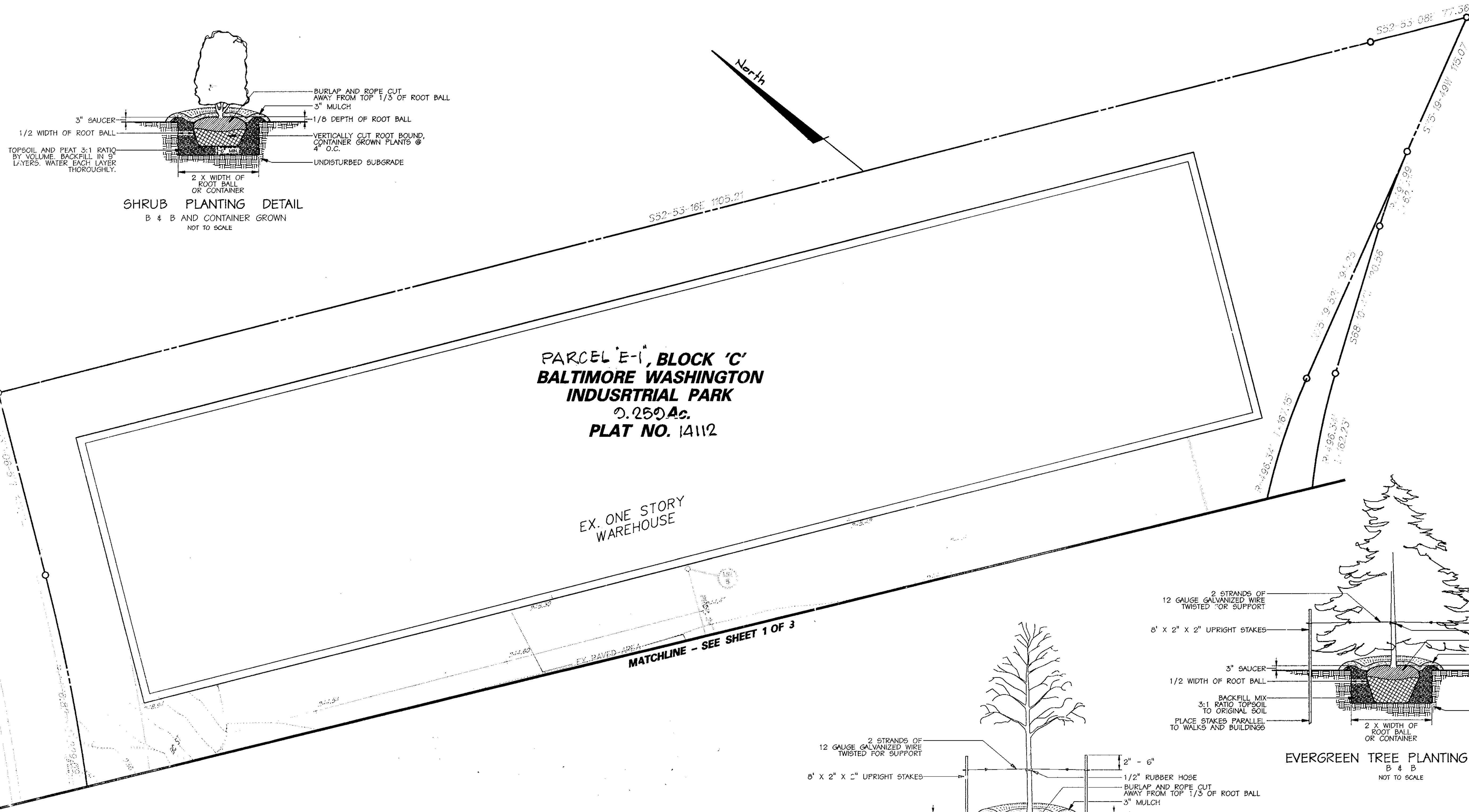
KCI Technologies, Inc.
14409 Greenview Drive, Suite 102
Laurel, Maryland 20708
(301) 953-1821 (410) 792-8086
fax: (410) 792-7419

PREPARED FOR:
ACME PAPER AND SUPPLY CO.
8229 SANDY COURT
SAVAGE, MD 20763

LANDSCAPE PLAN



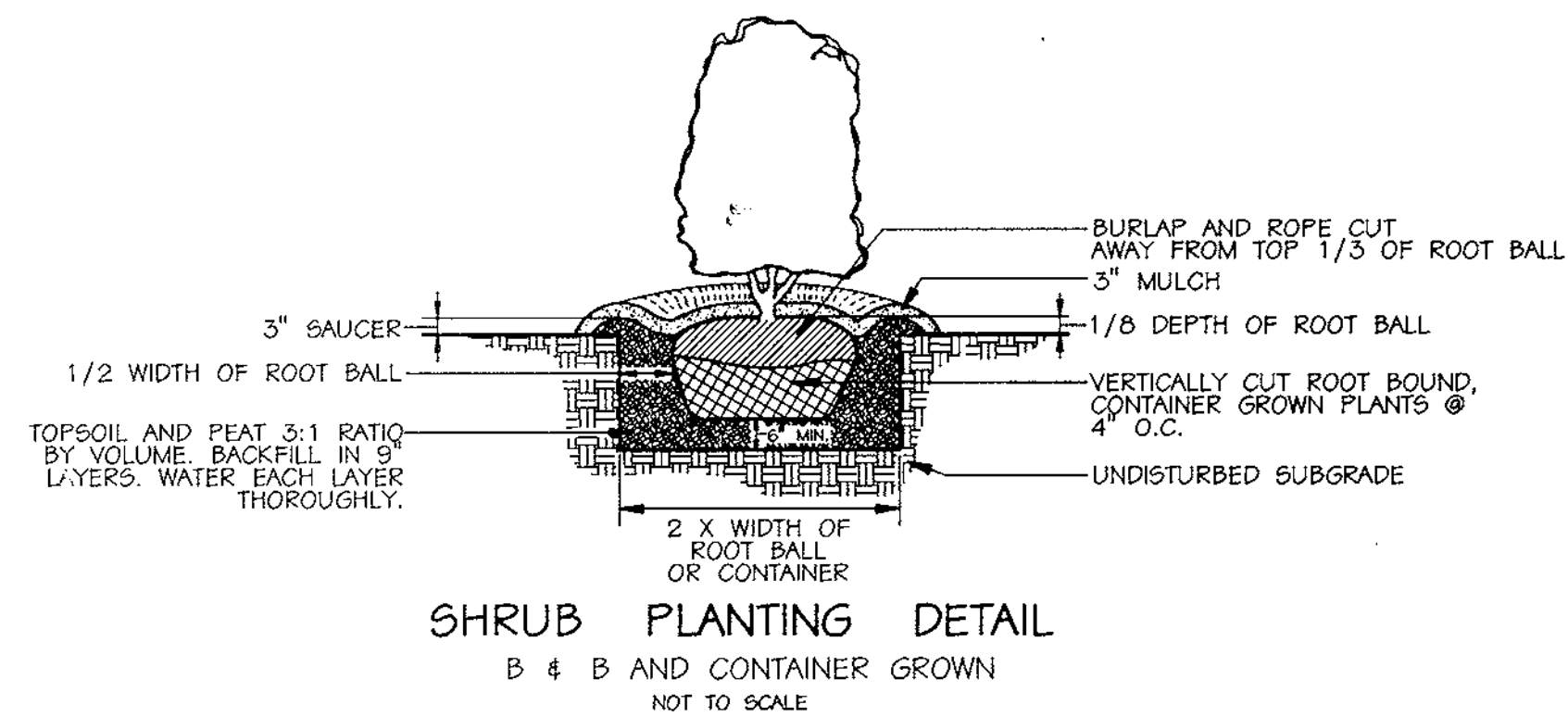
APP. 99.159



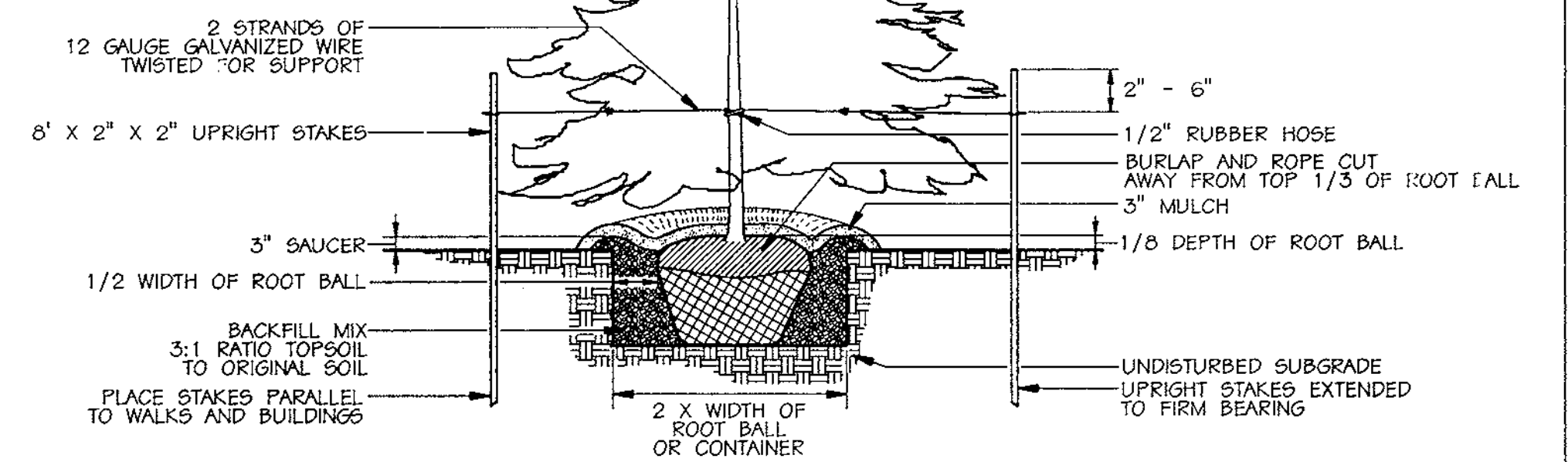
**PARCEL 'E-1', BLOCK 'C'
BALTIMORE WASHINGTON
INDUSTRIAL PARK
0.250 Ac.
PLAT NO. 14112**

EX. ONE STORY
WAREHOUSE

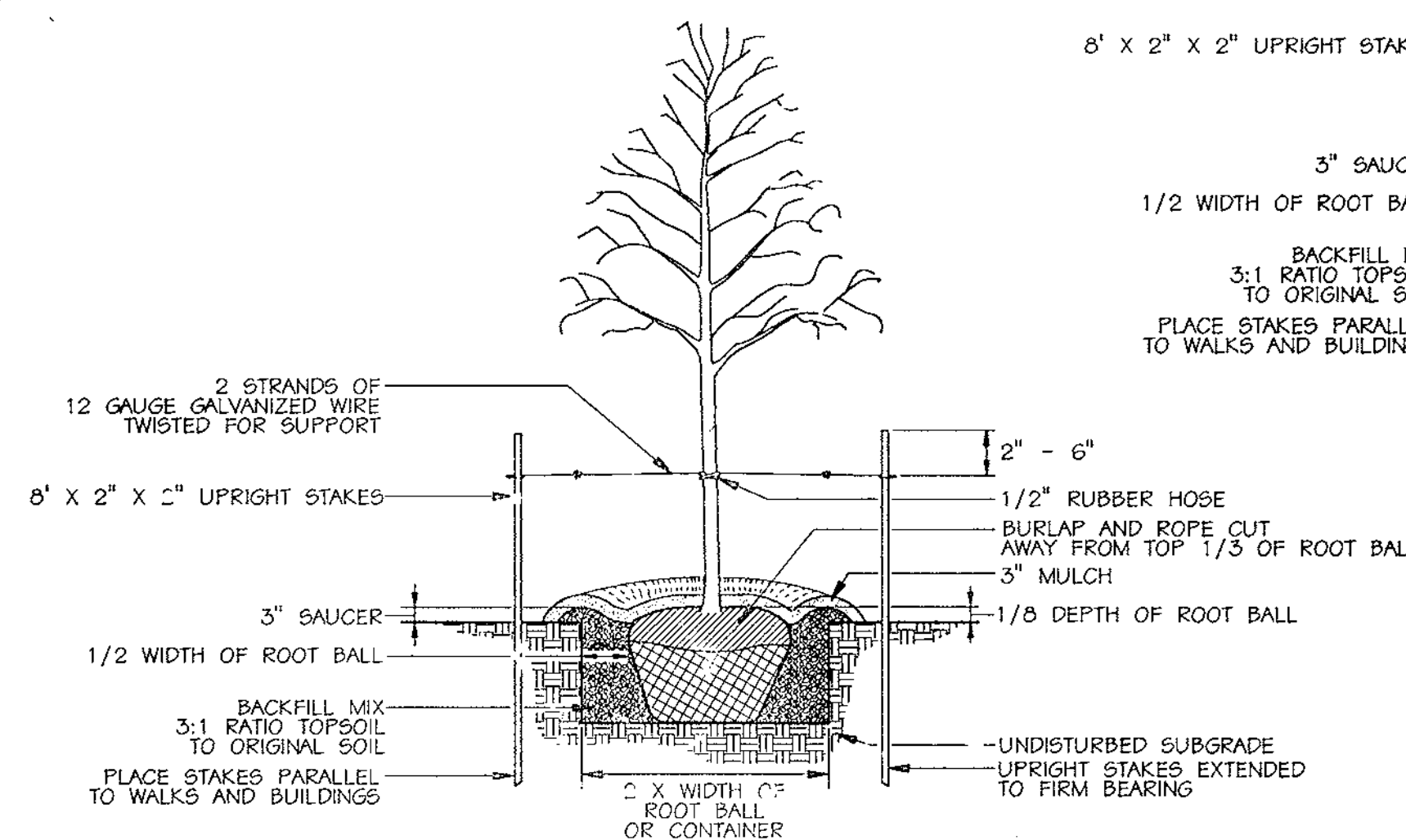
MATCHLINE - SEE SHEET 1 OF 3



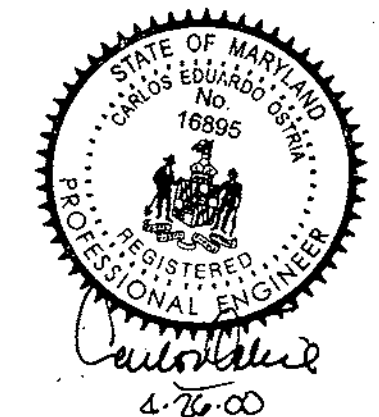
SHRUB PLANTING DETAIL
B & B AND CONTAINER GROWN
NOT TO SCALE



EVERGREEN TREE PLANTING DETAIL
B & B
NOT TO SCALE



DECIDUOUS TREE PLANTING DETAIL
B & B
NOT TO SCALE



BY THE DEVELOPER:
I HEREBY 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 THE 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 INSPECTIONS BY THE HOWARD COUNTY SOIL CONSERVATION DISTRICT.
Paul Attner 6/1/99
DEVELOPER DATE

BY THE ENGINEER:
I CERTIFY THAT THIS PLAN FOR POND CONSTRUCTION, EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS. THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT. I HAVE NOTIFIED THE DEVELOPER THAT HE/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.
Robert A. B. 4-26-00
ENGINEER DATE

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

APPROVED: DEPARTMENT PLANNING & ZONING
William J. ... 5/10/00
Chief Development Engineering Division DATE
Wanda ... 5/15/00
Chief Division of Land Development DATE
Paul ... 5/18/00
Director DATE
DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
DIRECTOR OF PUBLIC WORKS DATE CHIEF BUREAU OF WASTE MGMT. DATE
CHIEF BUREAU OF HIGHWAYS DATE CHIEF STORMWATER DIVISION DATE

ADDRESS CHART	
LOT/PARCEL #	STREET ADDRESS
D-2	8229 SANDY COURT
E-1	8231 STAYTON DRIVE

PERMIT INFORMATION CHART		
Subdivision Name: Baltimore Washington Industrial Park	Section/Area:	Lot/Parcel # D & E
Plot # or L.I.: F.117.110	Block # C	Zoning M-2
Water Code 40	Tax Map 48	Elect. Distr. 6
	Sewer Code: 4201900	Conserv. Tract

ACME PAPER SUPPLY COMPANY
Building Addition
(A Re-subdivision of Parcels D-1 & E, BLOCK "C"
Plot No. 6287 & 35:1
ZONING: M-2
TAX MAP NO. 48 PARCEL D-1: PARCELS E-1, BLOCK "C"
Plot 14112 SIXTH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
Water Code: B02, Sewer Code: 4201900

DRAWING	DATE	REVISIONS
Check CHK		
Design DSN		
Check CHK		



KCI Technologies, Inc.
14409 Greenview Drive, Suite 100
Laurel, Maryland 20708
(301) 953-1821 (410) 792-6986
Fax: (410) 792-7419

PREPARED FOR:
ACME PAPER AND SUPPLY CO.
8229 SANDY COURT
SAVAGE, MD 20854

LANDSCAPE PLAN

SCALE: 1" = 40'
DATE: JUNE 3, 1999
SHEET 17 OF 18

Schedule A
Perimeter Landscape Edge
Parcel E

Category	Adjacent to Roadways	Adjacent to Perimeter Properties
Landscape Type		A
Linear Feet of Roadway Frontage/Perimeter		1,722
Credit for Existing Vegetation (Yes, No, Linear Feet)		No
Credit for Wall, Fence, Berm (Yes, No, Linear Feet)		No
Number of plants Required		
Shade Trees		29
Evergreen Trees		0
Shrubs		0
Number of plants Provided		
Shade Trees		6
Evergreen Trees		14
Other Trees (2:1 substitution)		14
Shrubs (10:1 substitution)		103

Schedule A
Perimeter Landscape Edge
Parking to R/W (Sandy Court)

Category	Adjacent to Roadways	Adjacent to Perimeter Properties
Landscape Type		E
Linear Feet of Roadway Frontage/Perimeter		325
Credit for Existing Vegetation (Yes, No, Linear Feet)		No
Credit for Wall, Fence, Berm (Yes, No, Linear Feet)		No
Number of plants Required		
Shade Trees		8
Evergreen Trees		0
Shrubs		81
Number of plants Provided		
Shade Trees		0
Evergreen Trees		0
Other Trees (2:1 substitution)		16
Shrubs (10:1 substitution)		81

Schedule A
Perimeter Landscape Edge
Loading to Parcel E

Category	Adjacent to Roadways	Adjacent to Perimeter Properties
Landscape Type		C
Linear Feet of Roadway Frontage/Perimeter		60
Credit for Existing Vegetation (Yes, No, Linear Feet)		No
Credit for Wall, Fence, Berm (Yes, No, Linear Feet)		No
Number of plants Required		
Shade Trees		2
Evergreen Trees		3
Shrubs		0
Number of plants Provided		
Shade Trees		2
Evergreen Trees		3
Other Trees (2:1 substitution)		0
Shrubs (10:1 substitution)		0

Schedule A
Perimeter Landscape Edge
Parking to R/W (Stayton Drive)

Category	Adjacent to Roadways	Adjacent to Perimeter Properties
Landscape Type		E
Linear Feet of Roadway Frontage/Perimeter		30
Credit for Existing Vegetation (Yes, No, Linear Feet)		No
Credit for Wall, Fence, Berm (Yes, No, Linear Feet)		No
Number of plants Required		
Shade Trees		1
Evergreen Trees		0
Shrubs		8
Number of plants Provided		
Shade Trees		1
Evergreen Trees		0
Other Trees (2:1 substitution)		0
Shrubs (10:1 substitution)		8

Schedule A
Perimeter Landscape Edge
East

Category	Adjacent to Roadways	Adjacent to Perimeter Properties
Landscape Type		A
Linear Feet of Roadway Frontage/Perimeter		463
Credit for Existing Vegetation (Yes, No, Linear Feet)		No
Credit for Wall, Fence, Berm (Yes, No, Linear Feet)		No
Number of plants Required		
Shade Trees		8
Evergreen Trees		0
Shrubs		0
Number of plants Provided		
Shade Trees		5
Evergreen Trees		0
Other Trees (2:1 substitution)		6
Shrubs (10:1 substitution)		0

Schedule A
Perimeter Landscape Edge
South

Category	Adjacent to Roadways	Adjacent to Perimeter Properties
Landscape Type		A
Linear Feet of Roadway Frontage/Perimeter		270
Credit for Existing Vegetation (Yes, No, Linear Feet)		No
Credit for Wall, Fence, Berm (Yes, No, Linear Feet)		No
Number of plants Required		
Shade Trees		5
Evergreen Trees		0
Shrubs		0
Number of plants Provided		
Shade Trees		3
Evergreen Trees		0
Other Trees (2:1 substitution)		3
Shrubs (10:1 substitution)		5

Schedule B
Parking Lot Internal Landscaping

Number of Parking Spaces	84
Number of Trees Required	4
Number of Trees Provided	
Shade Trees	5
Other Trees (2:1 substitution)	0

Schedule D
Stormwater Management Area Landscaping

Linear Feet of Perimeter	400
Number of Trees Required	
Shade Trees	8
Evergreen Trees	10
Credit for Existing Vegetation (No, Yes and %)	No
Credit for Other Landscaping (No, Yes and %)	No
Number of Trees Provided	
Shade Trees	7
Evergreen Trees	0
Other trees (2:1 substitution)	4
Shrubs (10:1 substitution)	98

Street Trees Required: 1 Tree/40 l.f. Street R/W (23)
Stayton Drive: 210 l.f./40 = 5.25 Trees
Sandy Court: 700 l.f./40 = 17.5 Trees

Street Trees Proposed: 23
Stayton Drive: 3
Sandy Court: 13
Elsewhere on Site: 7

BY THE DEVELOPER:
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 THE 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 INSPECTIONS BY THE HOWARD COUNTY SOIL CONSERVATION DISTRICT.

Paul Allen 4-26-00
DEVELOPER DATE

BY THE ENGINEER:
I CERTIFY THAT THIS PLAN FOR POND CONSTRUCTION, EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS. THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT. I HAVE NOTIFIED THE DEVELOPER THAT HE/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.

Paul Allen 4-26-00
ENGINEER DATE

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.

NATURAL RESOURCES CONSERVATION DATE

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

HOWARD SOIL CONSERVATION DISTRICT DATE

APPROVED: DEPARTMENT OF PLANNING & ZONING

Paul Allen 5/10/00
Chief, Development Engineering Division Date

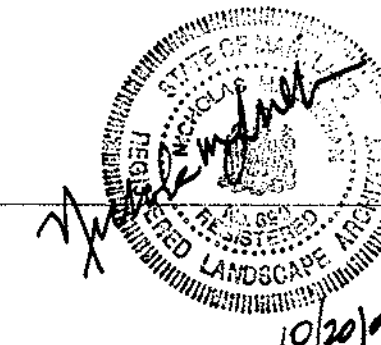
Paul Allen 5/10/00
Chief, Division of Land Development Date

Paul Allen 5/10/00
Director Date

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

DIRECTOR OF PUBLIC WORKS DATE CHIEF, BUREAU OF WASTE MGMT. DATE

CHEF, BUREAU OF HIGHWAYS DATE CHIEF, STORMWATER MGMT. DIV. DATE



ACME PAPER SUPPLY COMPANY

(A Resubdivision of Parcels D-1 & E, BLOCK "C"
Plot No. 6287 & 3591
ZONING: M-2

TAX MAP NO. 48 PARCEL D-1 PARCELS E-1, BLOCK "C"
SIXTH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
Flat 14-112

SCALE: 1" = 40'
DATE: JUNE 3, 1999
SHEET 18 of 18



KCI Technologies, Inc.
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Laurel, Maryland 20708
(301) 953-1821 (410) 792-8086
fax: (410) 792-7419

PREPARED FOR:
ACME PAPER AND SUPPLY CO.
8229 SANDY COURT
SAVAGE, MD 20763

LANDSCAPE REQUIREMENT SCHEDULES

DRWG PATH	DATE	REVISIONS
Drwing DRN		
Check CHK		
Design DSN		
Check CHK		

21P.99.1159

Schedule A
Perimeter Landscape Edge
Parcel E

Category	Adjacent to Roadways	Adjacent to Perimeter Properties
Landscape Type		
Linear Feet of Roadway Frontage/Perimeter		1,722
Credit for Existing Vegetation (Yes, No, Linear Feet)		No
Credit for Wall, Fence, Berm (Yes, No, Linear Feet)		No
Number of plants Required		
Shade Trees		29
Evergreen Trees		0
Shrubs		0
Number of plants Provided		
Shade Trees		6
Evergreen Trees		14
Other Trees (2:1 substitution)		103
Shrubs (10:1 substitution)		

Schedule A
Perimeter Landscape Edge
Parking to R/W (Sandy Court)

Category	Adjacent to Roadways	Adjacent to Perimeter Properties
Landscape Type	E	
Linear Feet of Roadway Frontage/Perimeter	325	
Credit for Existing Vegetation (Yes, No, Linear Feet)	No	
Credit for Wall, Fence, Berm (Yes, No, Linear Feet)	No	
Number of plants Required		
Shade Trees	8	
Evergreen Trees	0	
Shrubs	81	
Number of plants Provided		
Shade Trees	4	
Evergreen Trees	0	
Other Trees (2:1 substitution)	16	
Shrubs (10:1 substitution)	81	

Schedule A
Perimeter Landscape Edge
Loading to Parcel E

Category	Adjacent to Roadways	Adjacent to Perimeter Properties
Landscape Type		C
Linear Feet of Roadway Frontage/Perimeter		60
Credit for Existing Vegetation (Yes, No, Linear Feet)		No
Credit for Wall, Fence, Berm (Yes, No, Linear Feet)		No
Number of plants Required		
Shade Trees		2
Evergreen Trees		3
Shrubs		0
Number of plants Provided		
Shade Trees		2
Evergreen Trees		6
Other Trees (2:1 substitution)		0
Shrubs (10:1 substitution)		0

Schedule A
Perimeter Landscape Edge
Parking to R/W (Stayton Drive)

Category	Adjacent to Roadways	Adjacent to Perimeter Properties
Landscape Type	E	
Linear Feet of Roadway Frontage/Perimeter	30	
Credit for Existing Vegetation (Yes, No, Linear Feet)	No	
Credit for Wall, Fence, Berm (Yes, No, Linear Feet)	No	
Number of plants Required		
Shade Trees	1	
Evergreen Trees	0	
Shrubs	8	
Number of plants Provided		
Shade Trees	1	
Evergreen Trees	0	
Other Trees (2:1 substitution)	0	
Shrubs (10:1 substitution)	8	

Schedule A
Perimeter Landscape Edge
East

Category	Adjacent to Roadways	Adjacent to Perimeter Properties
Landscape Type		
Linear Feet of Roadway Frontage/Perimeter		463
Credit for Existing Vegetation (Yes, No, Linear Feet)		No
Credit for Wall, Fence, Berm (Yes, No, Linear Feet)		No
Number of plants Required		
Shade Trees		8
Evergreen Trees		0
Shrubs		0
Number of plants Provided		
Shade Trees		5
Evergreen Trees		8
Other Trees (2:1 substitution)		6
Shrubs (10:1 substitution)		0

Schedule A
Perimeter Landscape Edge
South

Category	Adjacent to Roadways	Adjacent to Perimeter Properties
Landscape Type		A
Linear Feet of Roadway Frontage/Perimeter		270
Credit for Existing Vegetation (Yes, No, Linear Feet)		No
Credit for Wall, Fence, Berm (Yes, No, Linear Feet)		No
Number of plants Required		
Shade Trees		5
Evergreen Trees		0
Shrubs		0
Number of plants Provided		
Shade Trees		3
Evergreen Trees		0
Other Trees (2:1 substitution)		3
Shrubs (10:1 substitution)		5

Schedule B
Parking Lot Internal Landscaping

Number of Parking Spaces	84
Number of Trees Required	4
Number of Trees Provided	
Shade Trees	5
Other Trees (2:1 substitution)	0
Shrubs	40
EVERGREENS	3

Schedule D
Stormwater Management Area Landscaping

Linear Feet of Perimeter	400
Number of Trees Required	
Shade Trees	8
Evergreen Trees	10
Credit for Existing Vegetation (No, Yes and %)	No
Credit for Other Landscaping (No, Yes and %)	No
Number of Trees Provided	
Shade Trees	7
Evergreen Trees	0
Other trees (2:1 substitution)	4
Shrubs (10:1 substitution)	98

Street Trees Required: 1 Tree/40 l.f. Street R/W (23)
 Stayton Drive: 210 l.f./40 = 5.25 Trees
 Sandy Court: 700 l.f./40 = 17.5 Trees

Street Trees Proposed: 23
 Stayton Drive: 3
 Sandy Court: 13 (11 Shade & 4 other)
 Elsewhere on Site: 7

BY THE DEVELOPER:
 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 THE 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 INSPECTIONS BY THE HOWARD COUNTY SOIL CONSERVATION DISTRICT.

Paul Thompson 4-26-00
 DEVELOPER DATE

BY THE ENGINEER:
 I CERTIFY THAT THIS PLAN FOR POND CONSTRUCTION, EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS. THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT. I HAVE NOTIFIED THE DEVELOPER THAT HE/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.

Paul Thompson 4-26-00
 ENGINEER DATE

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.

NATURAL RESOURCES CONSERVATION DATE _____

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

HOWARD SOIL CONSERVATION DISTRICT DATE _____

APPROVED: DEPARTMENT OF PLANNING & ZONING

John P. Williams 5/10/00
 Chief, Development Engineering Division Date

David J. Smith 5/18/00
 Chief, Division of Land Development Date

Paul J. Miller 5/19/00
 Director Date

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND

DIRECTOR OF PUBLIC WORKS DATE _____ CHIEF, BUREAU OF WASTE MGMT. DATE _____

CHIEF, BUREAU OF HIGHWAYS DATE _____ CHIEF, STORMWATER MGMT. DIV. DATE _____



ACME PAPER SUPPLY COMPANY

(A Resubdivision Of Parcels D-1 & E, BLOCK "C"
 Plat No. 6287 & 3591
 ZONING: "M-2"
 TAX MAP NO. 48 PARCEL D-11 PARCELS E-1, BLOCK "C"
 SIXTH ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND
 Plat 14-112

SCALE: 1" = 40'
 DATE: JUNE 3, 1999
 SHEET 18 of 18

APP. 99.159

DWG PATH

Drawing	DRN	DATE	REVISIONS
Check	CHK	5/23/00	Reduced Plantings
Design	DSN		
Check	CHK		



KCI Technologies, Inc.
 14409 Greenview Drive, Suite 102
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 fax: (410) 792-7419

PREPARED FOR:
ACME PAPER AND SUPPLY CO.
 8229 SANDY COURT
 SAVAGE, MD 20763

LANDSCAPE REQUIREMENT SCHEDULES