

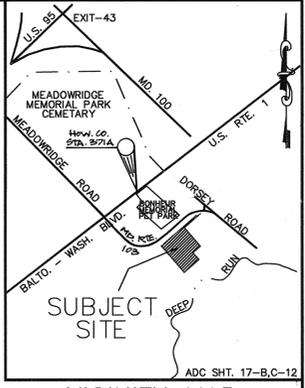
MD. RTE. 103 EXTENDED
SHA PLAT NO. 51096 & 51097
R/W VARIES

SHEET INDEX

SHEET NO.	DESCRIPTION
SDP-1	SITE DEVELOPMENT PLAN
SDP-2	SITE DEVELOPMENT PLAN NOTES & DETAILS
SDP-3	STORMWATER MANAGEMENT PLAN
SDP-4	S.W.M. PLAN NOTES & DETAILS
SDP-5	S.W.M. PLAN NOTES & DETAILS
SDP-6	S.W.M. PLAN NOTES & DETAILS
SDP-7	SEDIMENT CONTROL PLAN
SDP-8	SEDIMENT CONTROL NOTES & DETAILS
SDP-9	LANDSCAPE PLAN

LEGEND

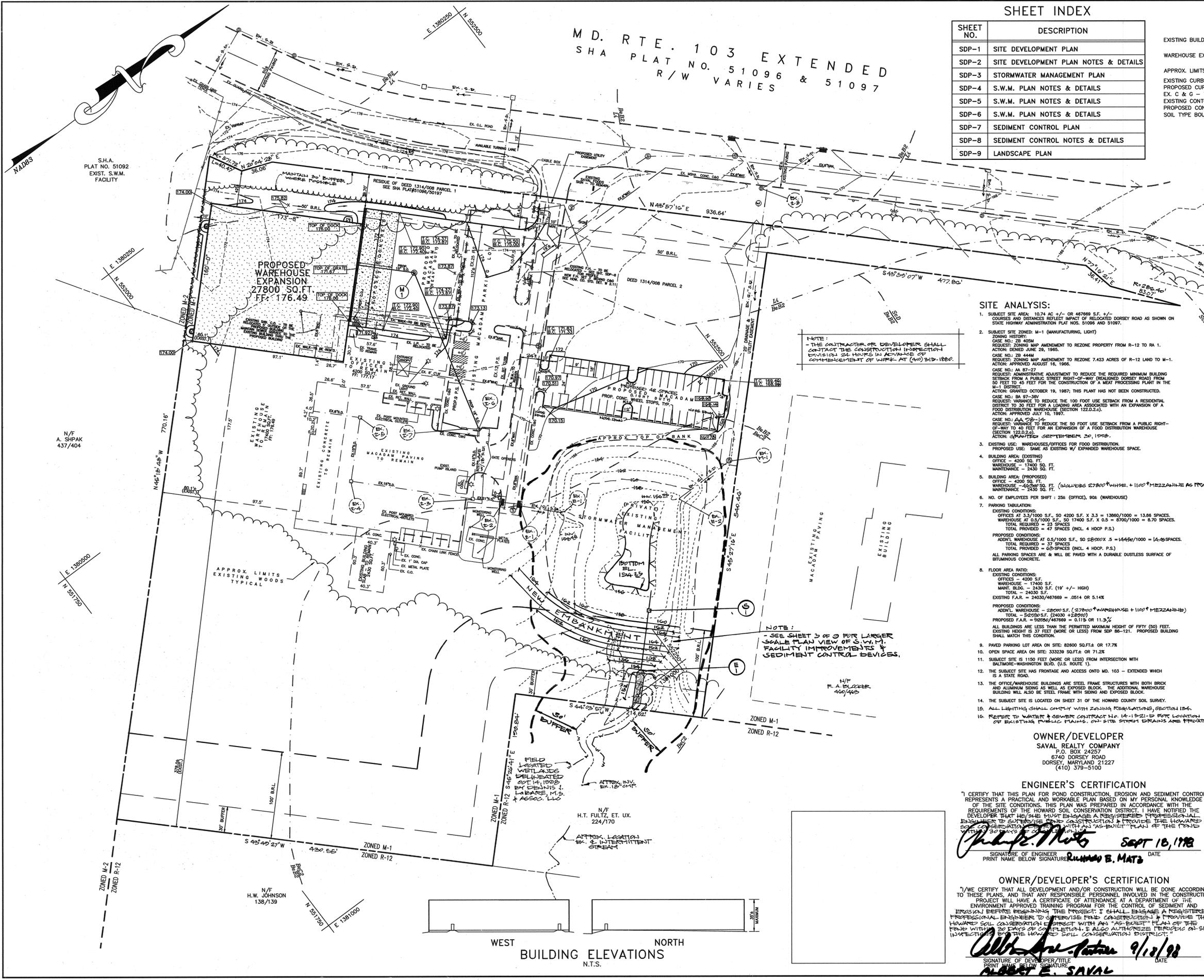
- EXISTING BUILDING AREA
- WAREHOUSE EXPANSION
- APPROX. LIMITS WOODS
- EXISTING CURB & GUTTER
- PROPOSED CURB & GUTTER
- EX. C & G - TO BE REMOVED
- EXISTING CONTOURS
- PROPOSED CONTOURS
- SOIL TYPE BOUNDARIES



VICINITY MAP
SCALE: 1"=2000'

BENCHMARK DATA

HOWARD COUNTY GEODETIC CONTROL:
DESCRIPTION: 3/4" IRON ROD W/ A 4" STAMPED ALUMINUM CAP.
STATION NO.: 371A
N 553315.158
E 1379982.120
ELEV.: 195.752



SITE ANALYSIS:

- SUBJECT SITE AREA 10.74 AC +/- OR 46769 S.F. +/- COURSES AND DISTANCES REFLECT IMPACT OF RELOCATED DORSEY ROAD AS SHOWN ON STATE HIGHWAY ADMINISTRATION PLAT NOS. 51096 AND 51097.
- SUBJECT SITE ZONED: M-1 (MANUFACTURING, LIGHT) ZONING HISTORY: CASE NO. ZB 403M REQUEST: ZONING MAP AMENDMENT TO REZONE PROPERTY FROM R-12 TO RA 1. ACTION: APPROVED JUNE 29, 1995. CASE NO. ZB 444M REQUEST: ZONING MAP AMENDMENT TO REZONE 7.423 ACRES OF R-12 LAND TO M-1. ACTION: APPROVED AUGUST 16, 1996. CASE NO. AA 87-27 REQUEST: ADMINISTRATIVE ADJUSTMENT TO REDUCE THE REQUIRED MINIMUM BUILDING SETBACK FROM A PUBLIC STREET RIGHT-OF-WAY (RELOCATED DORSEY ROAD) FROM 50 FEET TO 45 FEET FOR THE CONSTRUCTION OF A MEAT PROCESSING PLANT IN THE M-1 DISTRICT. ACTION: GRANTED OCTOBER 19, 1987. THIS PLANT HAS NOT BEEN CONSTRUCTED. CASE NO. BA 97-36/ REQUEST: VARIANCE TO REDUCE THE 100 FOOT SETBACK FROM A RESIDENTIAL DISTRICT TO 50 FEET FOR A LENDING AREA ASSOCIATED WITH AN EXPANSION OF A FOOD DISTRIBUTION WAREHOUSE (SECTION 122.0.2.2). ACTION: APPROVED JULY 10, 1997. CASE NO. AA 99-14 REQUEST: VARIANCE TO REDUCE THE 50 FOOT SETBACK FROM A PUBLIC RIGHT-OF-WAY TO 40 FEET FOR AN EXPANSION OF A FOOD DISTRIBUTION WAREHOUSE (SECTION 122.0.2.2). ACTION: GRANTED SEPTEMBER 20, 1998.
- EXISTING USE: WAREHOUSES/OFFICES FOR FOOD DISTRIBUTION. PROPOSED USE: SAME AS EXISTING W/ EXPANDED WAREHOUSE SPACE.
- BUILDING AREA (EXISTING) OFFICE - 4200 SQ. FT. WAREHOUSE - 17400 SQ. FT. MAINTENANCE - 2430 SQ. FT.
- BUILDING AREA (PROPOSED) OFFICE - 4200 SQ. FT. WAREHOUSE - 45220 SQ. FT. (INCLUDES 27800 WAREHOUSE + 1100 MEZZANINE AS PROP.) MAINTENANCE - 2430 SQ. FT.
- NO. OF EMPLOYEES PER SHIFT: 222 (OFFICE), 902 (WAREHOUSE)
- PARKING TABULATION: EXISTING CONDITIONS: OFFICES AT 3.3/1000 S.F., 50 4200 S.F. X 3.3 = 13860/1000 = 13.86 SPACES. WAREHOUSE AT 0.5/1000 S.F., 50 17400 S.F. X 0.5 = 8700/1000 = 8.70 SPACES. TOTAL REQUIRED = 22.56 SPACES. TOTAL PROVIDED = 47 SPACES (INCL. 4 HOOP P.S.) PROPOSED CONDITIONS: ADD'L WAREHOUSE AT 0.5/1000 S.F., 50 28200 X 5 = 14100/1000 = 14.10 SPACES. TOTAL REQUIRED = 37 SPACES. TOTAL PROVIDED = 68 SPACES (INCL. 4 HOOP P.S.) ALL PARKING SPACES ARE & WILL BE PAVED WITH A DURABLE DUSTLESS SURFACE OF BITUMINOUS CONCRETE.
- FLOOR AREA RATIO: EXISTING CONDITIONS: OFFICE - 4200 S.F. WAREHOUSE - 17400 S.F. MAINT. BLDG. - 2430 S.F. (19' +/- HIGH) TOTAL = 24030 S.F. EXISTING FAR = 24030/46769 = .0514 OR 5.14% PROPOSED CONDITIONS: ADD'L WAREHOUSE - 28200 S.F. (27800 WAREHOUSE + 1100 MEZZANINE) TOTAL = 50220 S.F. (4200 + 28200) PROPOSED FAR = 50220/46769 = 1.0739 OR 11.3% ALL BUILDINGS ARE LESS THAN THE PERMITTED MAXIMUM HEIGHT OF FIFTY (50) FEET. EXISTING HEIGHT IS 37 FEET (MORE OR LESS) FROM SDP 86-121. PROPOSED BUILDING SHALL MATCH THIS CONDITION.
- PAVED PARKING LOT AREA ON SITE: 82600 SQ.F.T. OR 17.7%
- OPEN SPACE AREA ON SITE: 333239 SQ.F.T. OR 71.2%
- SUBJECT SITE IS 1150 FEET (MORE OR LESS) FROM INTERSECTION WITH BALTIMORE-WASHINGTON BLVD. (U.S. ROUTE 1).
- THE SUBJECT SITE HAS FRONTAGE AND ACCESS ONTO MD. 103 - EXTENDED WHICH IS A STATE ROAD.
- THE OFFICE/WAREHOUSE BUILDINGS ARE STEEL FRAME STRUCTURES WITH BOTH BRICK AND ALUMINUM SIDING AS WELL AS EXPOSED BLOCK. THE ADDITIONAL WAREHOUSE BUILDING WILL ALSO BE STEEL FRAME WITH SIDING AND EXPOSED BLOCK.
- THE SUBJECT SITE IS LOCATED ON SHEET 31 OF THE HOWARD COUNTY SOIL SURVEY.
- ALL LIGHTING SHALL COMPLY WITH ZONING REGULATIONS, SECTION 184.
- REFER TO WATER & SEWER CONTRACT NO. 1A-1521-1 FOR LOCATION OF EXISTING PUBLIC PLANS, ON-SITE STREET DRAINS AND PRIVATE.

NOTE: - SEE SHEET 3 OF 9 FOR LARGER SCALE PLAN VIEW OF S.W.M. FACILITY IMPROVEMENTS & SEDIMENT CONTROL DEVICES.

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: 12/3/98
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: 12/3/98
U.S.D.A. - NATURAL RESOURCES CONSERVATION SERVICE

ADDRESS CHART			
LOT NUMBER	STREET ADDRESS		
SUBJECT SITE	6740 DORSEY ROAD		
PERMIT INFORMATION CHART			
SUBDIVISION NAME	SECTION/AREA	LOT/PARCEL #	
DORSEY INDUSTRIES	N/A	373 & 413	
PLAT NO. OR L/F BLOCK #	ZONE	TAX/ZONE MAP	ELECT. DIST.
1314/005	23 & 5	M-1	37 & 43
			FIRST
			6012
WATER CODE	SEWER CODE		
B-01	2320000		
APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS HOWARD COUNTY HEALTH DEPARTMENT			
APPROVED: DEPARTMENT OF PLANNING & ZONING		DATE	
[Signature]		12/8/98	
COUNTY HEALTH OFFICER		DATE	
APPROVED: DEPARTMENT OF PLANNING & ZONING		DATE	
[Signature]		12/10/98	
CHIEF, DEVELOPMENT ENGINEERING DIVISION		DATE	
[Signature]		12/11/98	
CHIEF, DIVISION OF LAND DEVELOPMENT		DATE	
[Signature]		12/11/98	
DIRECTOR		DATE	

SITE DEVELOPMENT PLAN
SDP - 99-32
"DORSEY INDUSTRIES"
WAREHOUSE EXPANSION
SAVAL REALTY COMPANY
6740 DORSEY ROAD
PREVIOUS SDP 86-121 & 88-35
ELECTION DISTRICT: FIRST HOWARD COUNTY, MARYLAND
CENSUS TRACT NO.: 8012 TAX MAP NO.: 37 & 43 PARCEL NO.: 413 & 373
WATER CODE: B-01 SEWER CODE: 2320000
SCALE: 1" = 50' DATE: SEPT. 23, 1998

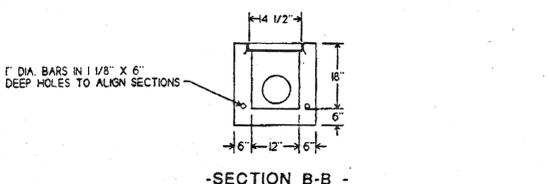
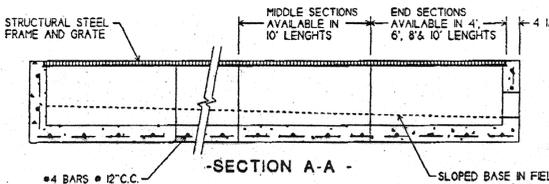
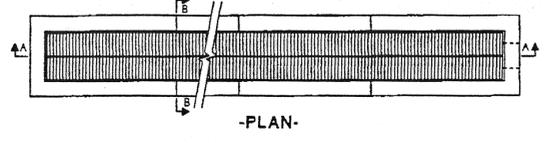
Colbert Matz Rosenfelt, Inc.
Engineers * Surveyors * Planners
2835 Smith Avenue, Suite G
Baltimore, Maryland 21209
Telephone: (410) 653-3838
Facsimile: (410) 653-7953

ENGINEER'S CERTIFICATION
I CERTIFY THAT THIS PLAN FOR POND CONSTRUCTION, EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS. 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 & PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN "AS-BUILT" PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION. I ALSO AUTHORIZED TYPING OF THIS PLAN ON 30 DAYS OF COMPLETION.
[Signature] DATE: SEPT 18, 1998
SIGNATURE OF ENGINEER: ROBERT E. MATZ
PRINT NAME BELOW SIGNATURE

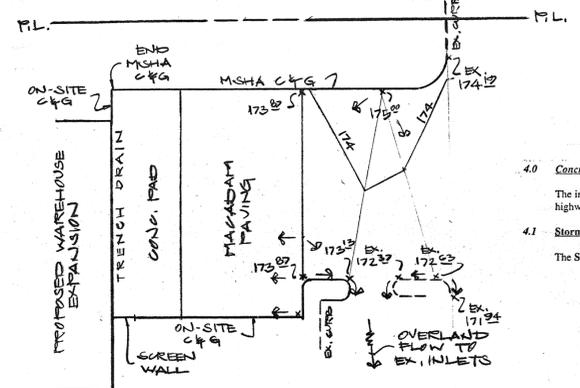
OWNER/DEVELOPER'S CERTIFICATION
I/WE CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THESE PLANS, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I SHALL ENGAGE A REGISTERED PROFESSIONAL ENGINEER TO SUPERVISE FRAME CONSTRUCTION & PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN "AS-BUILT" PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION. I ALSO AUTHORIZED TYPING OF THIS PLAN ON 30 DAYS OF COMPLETION.
[Signature] DATE: 9/10/98
SIGNATURE OF DEVELOPER/TITLE: SAVAL REALTY COMPANY
PRINT NAME BELOW SIGNATURE

NO.	DATE	REVISIONS:	BY	SHEET 1 OF 9

WEST BUILDING ELEVATIONS NORTH
N.T.S.

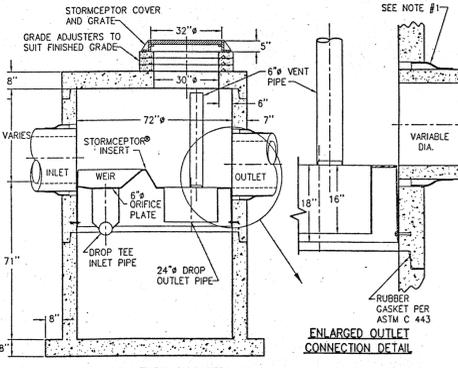


PRECAST CONCRETE TRENCH DRAINS WITH 1/2" WIDE GRATING DWG. TD-3



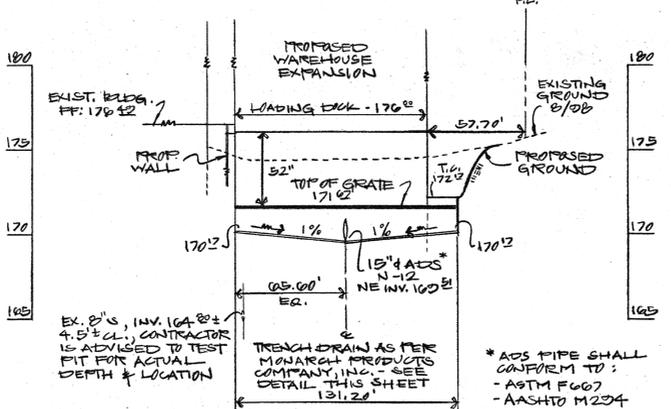
PROPOSED CURB SCHEMATIC
1"=50'

STC 1200 Precast Concrete Stormceptor®
(1200 US Gallon Capacity)

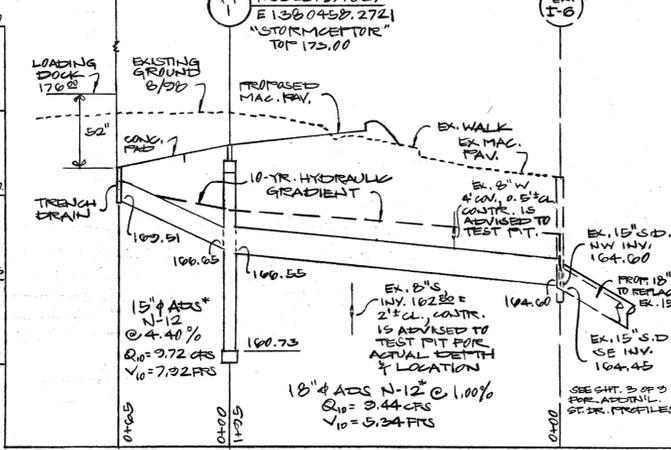


SECTION THRU CHAMBER

NOTE:
1. THE USE OF FLEXIBLE CONNECTIONS IS RECOMMENDED AT THE INLET AND OUTLET WHERE APPLICABLE.
2. THE COVER SHOULD BE POSITIONED OVER THE OUTLET DROP PIPE AND THE VENT PIPE.
3. THIS IS A GENERAL ARRANGEMENT DRAWING. CONSULT LOCAL REPRESENTATIVE FOR SPECIAL CONDITIONS.



PROFILE - TRENCH DRAIN
1"=50' / 1"=5'



PROFILE - STORM DRAIN
1"=50' / 1"=5'

- 4.0 Concrete Stormceptor Installation**
1. base slab
 2. treatment chamber section(s)
 3. transition slab (if required)
 4. by-pass section
 5. inlet and outlet connections
 6. riser section (if needed)
 7. top slab
 8. frame and access cover

The precast base should be placed level at the specified grade. The base should be firmly supported by the underlying compacted material. Subsequent sections, complete with joint seals, should be installed in accordance with the manufacturer's recommendations.

Adjustment of the Stormceptor can be performed by lifting the upper sections free of the excavated area, re-leveling the base, and re-installing the sections. Damaged sections and gaskets should be repaired or replaced as necessary. Once the Stormceptor has been constructed, the lift holes should be plugged with mortar.

Down Pipe and Riser Pipe
Once the by-pass section has been attached to the treatment chamber, the down pipe and riser pipe must be attached.

Inlet and Outlet Pipes
Inlet and outlet pipes should be securely set into the by-pass chamber using grout or approved pipe seals so that the structure is watertight. Boots are normally used and installed at the precast concrete plant prior to shipping. The boots are applicable for pipes with an outside diameter up to 44 inches. CSR Hydro Conduit should be notified if the pipe is to be grouted in the field at the time of ordering (i.e. boots will not be used).

Installation of the boots to the inlet and outlet pipes should follow the manufacturer's recommendations. As previously mentioned, the boots will already be attached to the Stormceptor at the production plant. Accordingly, the following procedure should be followed to attach the inlet and outlet pipes to the Stormceptor in the field:

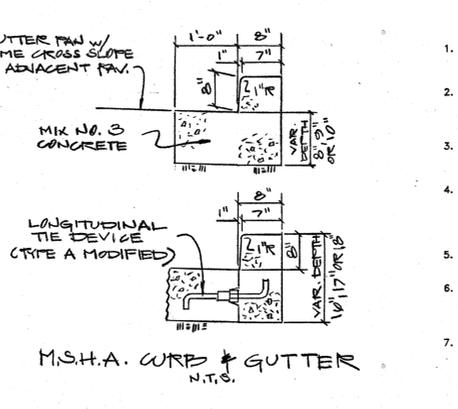
1. Center the pipe in the boot opening
2. Lubricate the outside of the pipe and/or inside of the boot if the pipe outside diameter is the same as the inside diameter of the boot
3. Position the pipe clamp in the groove of the boot with the screw at the top
4. Tighten the pipe clamp screw
5. On minimum outside diameter installations lift the boot such that it contacts the bottom of the pipe while tightening the pipe clamp to ensure even contact of the rubber

Frame and Cover Installation
Precast concrete adjustment units should be installed to set the frame and cover at the required elevation. The adjustment units should be set per local specifications with successive units being joined using sealant recommended by the manufacturer. Frames for the cover should also be set per procedures and materials that meet local specifications at the elevation specified.

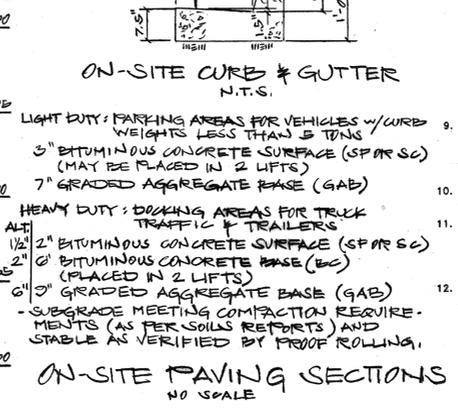
Table 7. Sediment Depths Indicating Required Maintenance*

Model	Sediment Depth (feet)
500	0.50
1200	0.75
1800	1.00
2400	1.25
3000	1.50
3600	1.75
4200	2.00
4800	2.25
5400	2.50
6000	2.75
6600	3.00
7200	3.25

* based on 15% of the interceptor's sediment storage.
"STORMCEPTOR" DETAILS & GUIDELINES FROM TECHNICAL MANUAL, DATED 01/97.



ON-SITE CURB & GUTTER
N.T.S.



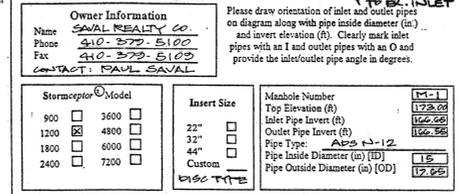
ON-SITE PAVING SECTIONS
NO SCALE

Concrete Stormceptor® Order Request Form*

Contractor Information
Name: SAVAL REALTY CO.
Address: 2700 WATER ST.
City: YORK, PA
State: PA
Zip Code: 17405
Contact: STEVEN YINGER
Phone: 717-741-2841
Fax: 717-741-8426

Owner Information
Name: SAVAL REALTY CO.
Phone: 410-379-5100
Fax: 410-379-5100
CONTACT: PAUL SAVAL

Stormceptor® Model: 1200
Insert Size: 22"
Manhole Number: 1200
Top Elevation (ft): 172.00
Inlet Pipe Invert (ft): 172.00
Outlet Pipe Invert (ft): 172.00
Pipe Type: ABS N-12
Pipe Inside Diameter (in) [ID]: 18
Pipe Outside Diameter (in) [OD]: 22



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

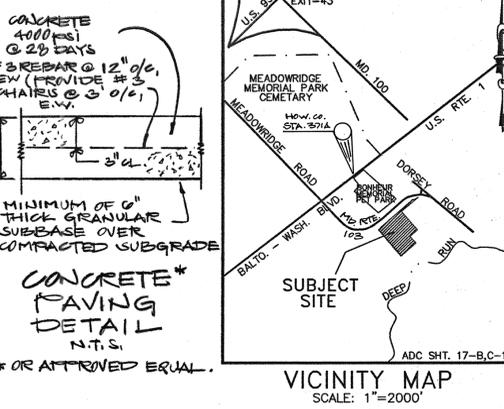
Project Name: SAVAL REALTY COMPANY
Approximate time frame until required delivery (weeks): COMPLETE W/CONSTR.
Delivery Address: Street: 6740 DORSEY ROAD (JOB SITE)
City: BALTIMORE State: MD Zip Code: 21227
Designer Company: COLBERT MATZ ROSENFELT INC.
Designer Contact: STU DORSEY Phone: 410-653-2828 Fax: 410-653-2828

Please fax this order to Stormceptor at (801) 762-4190
For Technical Assistance Please Call Stormceptor Corporation at (801) 762-8361 or toll free at 1 (800) 762-4793

ALL LIFTING APPARATUS TO BE PROVIDED BY THE INSTALLATION CONTRACTOR.
* TO BE INCLUDED ON SWM PLAN BY DESIGNER

GENERAL NOTES

1. ALL WORK SHOWN ON THESE PLANS SHALL BE COMPLETED IN ACCORDANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF THE HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS AND OF THE MARYLAND STATE HIGHWAY ADMINISTRATION.
2. IT SHALL BE DISTINCTLY UNDERSTOOD THAT FAILURE TO MENTION SPECIFICALLY ANY WORK WHICH WOULD NORMALLY BE REQUIRED TO COMPLETE THIS PROJECT SHALL NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY TO PERFORM SUCH WORK. THE COST OF SUCH WORK SHALL BE INCLUDED IN THE BASE BID.
3. THE CONTRACTOR SHALL NOTE THAT IN CASE OF DISCREPANCY BETWEEN ANY SCALED DIMENSIONS AND THE FIGURED DIMENSIONS SHOWN ON THESE PLANS, THE FIGURED DIMENSIONS SHALL GOVERN.
4. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY COLBERT MATZ ROSENFELT, INC. OF ANY DEVIATION FROM THIS PLAN PRIOR TO ANY CHANGE BEING MADE. ANY DEVIATION FROM THIS PLAN WITHOUT WRITTEN AUTHORIZATION FROM COLBERT MATZ ROSENFELT, INC. WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.
5. CONTRACTOR SHALL MEET ALL EXISTING IMPROVEMENTS SMOOTHLY FOR LINE, GRADE AND FINISH.
6. CONTRACTOR SHALL PROTECT ALL EXISTING IMPROVEMENTS NOT SCHEDULED FOR REMOVAL OR DEMOLITION. COST OF REPAIR TO EXISTING IMPROVEMENTS SHALL BE INCLUDED IN THE BASE BID. ALL EXISTING SITE FEATURES NOT BEING RETAINED SHALL BE REMOVED AND DISPOSED OF AT AN APPROVED LOCATION.
7. EXISTING UTILITIES SHOWN ON THESE PLANS ARE FOR THE CONVENIENCE OF THE CONTRACTOR ONLY. THE LOCATIONS ARE TAKEN FROM EXISTING RECORDS AND DO NOT REPRESENT FIELD-VERIFIED LOCATIONS. THE CONTRACTOR SHALL NOTIFY MISS UTILITY AT 1-800-257-7777 A MINIMUM OF 5 WORKING DAYS PRIOR TO DIGGING. THE CONTRACTOR SHALL CONFIRM TO HIS OWN SATISFACTION THE LOCATION OF ALL UTILITIES PRIOR TO PLACEMENT OF ANY MATERIALS. IF ANY CONFLICT IS FOUND BETWEEN UNDERGROUND UTILITIES AND THE PROPOSED LOCATION OF ANY CONSTRUCTION, THE CONTRACTOR SHALL CONTACT COLBERT MATZ ROSENFELT, INC. AND THE OWNER OF THE UTILITY IMMEDIATELY. ANY DAMAGE OR DISRUPTION OF SERVICE SHALL BE AT THE EXPENSE OF THE CONTRACTOR.
8. THE CONTRACTOR SHALL REPLACE EXISTING BITUMINOUS PAVING AND SUB-BASE WHICH IS DAMAGED OR REMOVED DURING CONSTRUCTION. ALL EXCAVATED AREAS SHALL BE BACKFILLED AND COMPACTED TO 95% DENSITY AS DETERMINED BY ASTM D-692 (STANDARD PROCTOR). ANY AREAS TO BE PAVED WHICH EXHIBIT UNSTABLE SUBGRADE CONDITIONS SHALL BE EXCAVATED TO BEARING SOIL, REFILLED AND COMPACTED. THE PAVING BASE COURSE SHALL CONSIST OF BITUMINOUS CONCRETE (BC) OVER GRADED AGGREGATE BASE (GAB). THE SURFACE COURSE SHALL BE BITUMINOUS CONCRETE (SP OR SC). CONTRACTOR SHALL PLACE PROPOSED SURFACE COURSE OVERLAY 5 FEET BEYOND LIMITS OF REPLACEMENT PAVING, UNLESS DIRECTED OTHERWISE BY THE ENGINEER IN THE FIELD. ALL OVERLAYS SHALL HAVE SMOOTH, STRAIGHT EDGES. STRIP AND RESURFACE EXISTING PAVING AS NEEDED TO PROVIDE SMOOTH TRANSITION.
9. PLACEMENT OF ALL FILL MATERIAL SHALL BE IN 8" THICK LAYERS AND COMPACTED. COMPACTATION UNDER PAVING SURFACE TO BE TO 95% DENSITY AS DETERMINED BY ASTM D-692 (STANDARD PROCTOR). ANY FILL WITHIN BUILDING AREAS IS TO BE COMPACTED TO A MINIMUM OF 98% DENSITY AS DETERMINED BY ASTM D-692 (STANDARD PROCTOR).
10. PREFORMED ELASTOMERIC JOINT MATERIAL SHALL BE INSTALLED AT ALL MEETINGS OF EXISTING AND PROPOSED CONCRETE PAVING AND SIDEWALKS.
11. CONTRACTOR SHALL PROTECT ALL EXISTING TREES OUTSIDE THE LIMIT OF DISTURBANCE AT ALL TIMES DURING CONSTRUCTION. PRIOR TO BEGINNING ANY CONSTRUCTION, 3 FOOT HIGH ORANGE PLASTIC SAFETY NETTING OR WOODEN SNOW FENCE SHALL BE ERRECTED AS SHOWN AROUND EACH TREE DESIGNATED FOR PROTECTION.
12. CONTRACTOR SHALL CONFORM TO ALL GRADES AND DIMENSIONS SHOWN WITHIN A TOLERANCE OF 0.1 FOOT.



BENCHMARK DATA
HOWARD COUNTY GEODETIC CONTROL
STATION NO.: 371A DESCRIPTION: 3/4" IRON ROD W/ A 4" STAMPED ALUMINUM CAP.
N 55315.158
E 1379982.120
ELEV.: 195.762

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

HOWARD SOIL CONSERVATION DISTRICT 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.

U.S. EPA. NATURAL RESOURCES CONSERVATION SERVICE DATE

ADDRESS CHART	
LOT NUMBER	STREET ADDRESS
SUBJECT SITE	6740 DORSEY ROAD

PERMIT INFORMATION CHART			
SUBDIVISION NAME	SECTION/AREA	LOT/PARCEL #	
DORSEY INDUSTRIES	N/A	373 & 413	
PLAT NO. OR L/F	BLOCK # ZONE	TAX/ZONE MAP EJECT. DISTR.	CENSUS TRACT
1314/005	23 & 5 M-1	37 & 43 FIRST	6012

WATER CODE	SEWER CODE
B-01	2320000

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS
HOWARD COUNTY HEALTH DEPARTMENT

James M. Boyd and per. John H. 12/8/98
COUNTY HEALTH OFFICER DATE

APPROVED: DEPARTMENT OF PLANNING & ZONING
12/10/98
DATE

12/11/98
DATE

12/11/98
DATE

SITE DEVELOPMENT PLAN NOTES & DETAILS
SDP - 99-32

"DORSEY INDUSTRIES" WAREHOUSE EXPANSION
SAVAL REALTY COMPANY
6740 DORSEY ROAD
PREVIOUS SDP 86-121 & 88-35

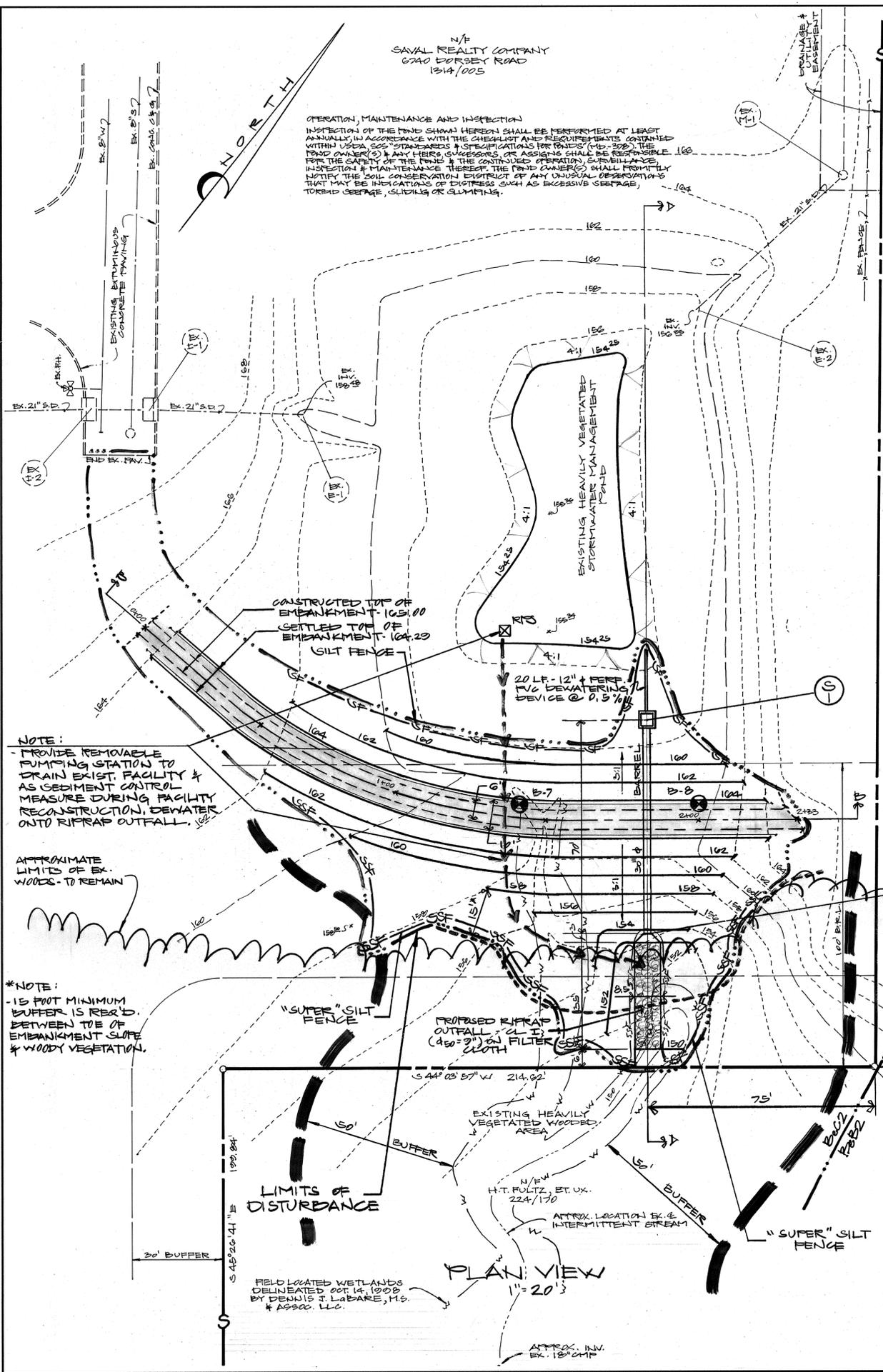
ELECTION DISTRICT: FIRST HOWARD COUNTY, MARYLAND
CENSUS TRACT NO.: 6012 TAX MAP NO.: 37 & 43 PARCEL NO.: 413 & 373
WATER CODE: B-01 SEWER CODE: 2320000
SCALE: AS SHOWN DATE: SEPT 23, 1998

Colbert Matz Rosenfelt, Inc.
Engineers * Surveyors * Planners
2835 Smith Avenue, Suite G
Baltimore, Maryland 21209
Telephone: (410) 653-3838
Facsimile: (410) 653-7953

NO.	DATE	REVISIONS:	BY	SHEET 2 OF 9

ENGINEER'S CERTIFICATION
I CERTIFY THAT THIS PLAN FOR POND CONSTRUCTION, EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS. THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD COUNTY CONSERVATION DISTRICT. I HAVE NOTIFIED THE DEVELOPER THAT HE/SHE MUST ENGAGE A REGISTERED PROFESSIONAL ENGINEER TO SUPERVISE POND CONSTRUCTION & 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 CONSERVATION DISTRICT.
9/10/98
DATE

OWNER/DEVELOPER'S CERTIFICATION
I/WE CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THESE PLANS, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF 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 & 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 CONSERVATION DISTRICT.
9/18/98
DATE



OPERATION, MAINTENANCE AND INSPECTION
 INSPECTION OF THE POND SHOWN HEREON SHALL BE PERFORMED AT LEAST ANNUALLY IN ACCORDANCE WITH THE CHECKLIST AND REQUIREMENTS CONTAINED WITHIN USCA 200 STANDARDS & SPECIFICATIONS FOR POND (1998). THE POND OWNER(S) & ANY HEIRS, SUCCESSORS OR ASSIGNS SHALL BE RESPONSIBLE FOR THE SAFETY OF THE POND & THE CONTINUED OPERATION, SUPERVILLANCE, INSPECTION & MAINTENANCE THEREOF. THE POND OWNER(S) SHALL PROMPTLY NOTIFY THE SOIL CONSERVATION DISTRICT OF ANY UNUSUAL OBSERVATIONS THAT MAY BE INDICATIONS OF DISTRESS SUCH AS EXCESSIVE SEEPAGE, TORPED SEEPAGE, SLIDING OR SLUMPING.

NOTE:
 - PROVIDE REMOVABLE PUMPING STATION TO DRAIN EXIST. FACILITY & AS SEDIMENT CONTROL MEASURE DURING FACILITY RECONSTRUCTION, DRAINAGE ONTO RIPRAP OUTFALL.

APPROXIMATE LIMITS OF EX. WOODS TO REMAIN

*NOTE:
 - 15 FOOT MINIMUM BUFFER IS REQ'D. BETWEEN TIE OF EMBANKMENT SLOPE & WOODY VEGETATION.

LIMITS OF DISTURBANCE

FIELD LOCATED WETLANDS DELINEATED OCT. 14, 1998 BY DENNIS J. LABARE, M.S. & ASSOC. LLC.

PLAN VIEW
 1" = 20'

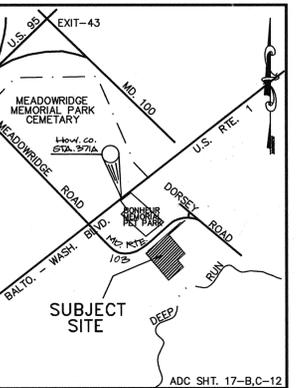
OPERATION and MAINTENANCE SCHEDULE for STORMCEPTOR WATER QUALITY DEVICE!

- The stormceptor water quality structure shall be periodically inspected and cleaned to maintain operation and function. The owner shall inspect the Stormceptor unit yearly at a minimum, utilizing the Stormceptor Inspection/Monitoring Form. Inspections shall be done by using a clear Plexiglass tube ("sludge judge") to extract a water column sample. When the sediment depths exceed the level specified in Table 9 of the Stormceptor Technical Manual, the unit must be cleaned.
- The stormceptor water quality structure shall be checked and cleaned immediately after petrolium spills. The owner shall contact the appropriate regulatory agencies.
- The maintenance of the Stormceptor unit shall be done using a vacuum truck which will remove the water, sediment, debris, floating hydrocarbons and other materials in the unit. Proper clearing and disposal of the removed materials and liquid must be followed by the owner.
- The inlet and outlet pipes shall be checked for any obstructions at least once every six months. If obstructions are found, the owner shall have them removed. Structural parts of the Stormceptor unit shall be repaired as needed.
- The owner shall retain and make the Stormceptor Inspection/Monitoring Forms available to the Howard County officials upon their request.

STORMWATER MANAGEMENT SEQUENCE OF CONSTRUCTION

- OBTAIN PROPER PERMITS.
 - THE FACILITY SHALL NOT BE MADE FULLY OPERATIONAL UNTIL ALL CONTRIBUTING DRAINAGE AREAS HAVE BEEN STABILIZED.
 - INSTALL ALL SEDIMENT CONTROL MEASURES IN ACCORDANCE WITH THE APPROVED SEDIMENT CONTROL PLANS.
 - CLEAR & GRUB FOR INSTALLATION OF NEW EMBANKMENT, CONTROL STRUCTURE & OUTFALL.
 - EXCAVATE FOR INSTALLATION OF CORE TRENCH. INSTALL CORE TRENCH. 1 DAY
 - INSTALL S-1 W/ DEWATERING DEVICE. 3 DAYS
 - INSTALL BARREL W/ ATTURTEMANAGES. 2 DAYS
 - INSTALL S-1 W/ DEWATERING DEVICE. 3 DAYS
 - FINE GRADE EMBANKMENT & PROVIDE PERMANENT STABILIZATION. FINE GRADE INV. OF FACILITY TO 104.25 TO PROVIDE A 2" NORMAL POOL. 1 DAY
- TOTAL - 10 DAYS

NOTE:
 - THIS SEQUENCE OF CONSTRUCTION IS INCLUDED AS ITEM NO. 2 IN THE OVERALL S.O.C. ON SHT. 7 OF 2.



BENCHMARK DATA

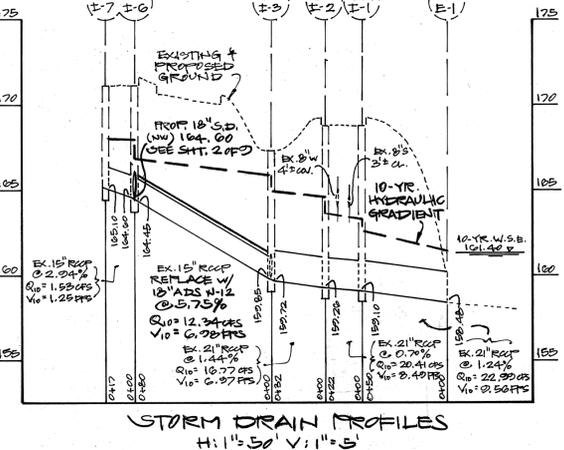
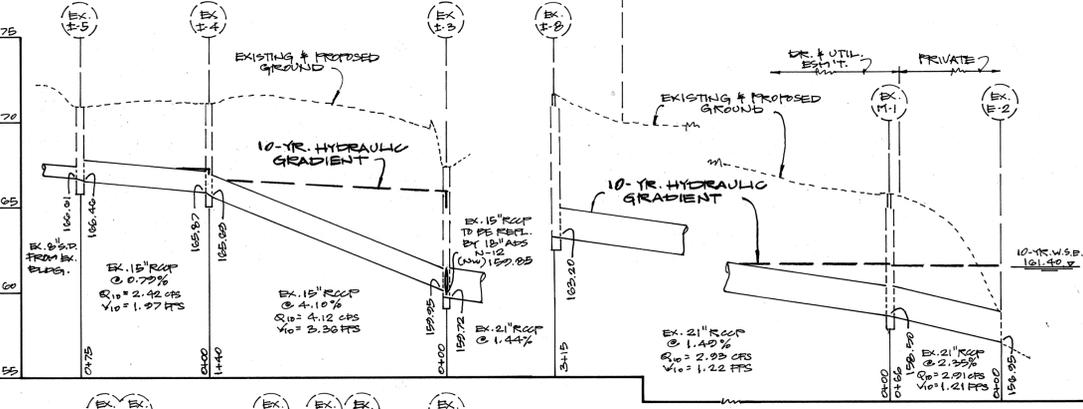
HOWARD COUNTY GEODETIC CONTROL
 STATION NO.: 371A DESCRIPTION: 3/4" IRON ROD W/ A 4" STAMPED ALUMINUM CAP.
 N 55315.158
 E 1379982.120
 ELEV.: 195.782

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

12/3/98 DATE
 HOWARD SOIL CONSERVATION DISTRICT

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

12/3/98 DATE
 U.S.D.A. NATURAL RESOURCES CONSERVATION SERVICE



DESIGN SUMMARY

STORM FREQUENCY YR.	ALLOWABLE RELEASE RATE CFS	FACILITY INFLOW CFS	FACILITY RELEASE RATE CFS	WATER SURFACE ELEVATION	STORAGE AC. FT.
2	11.08	30.14	9.34	100.17	1.4053
10	21.27	61.00	20.92	101.40	2.0258
100	56.05	200.98	43.21	102.29	2.5422

- DRAINAGE AREA TO FACILITY : 11.00 AC.±
- HAZARD CLASSIFICATION : A
- LEVEL OF MANAGEMENT PROVIDED BY FACILITY : 2, 10 & 100-YR.
- FACILITY LOCATED IN THE DEEP RUN WATERSHED.
- WATER QUALITY PROVIDED BY : WET POND (2" MIN. POOL) AND STORMCEPTOR.
- THE FACILITY IS PRIVATE & WILL BE MAINTAINED BY THE PROPERTY OWNER.

OWNER/DEVELOPER

SAVAL REALTY COMPANY
 P.O. BOX 24257
 6740 DORSEY ROAD
 DORSEY, MARYLAND 21227
 (410) 379-5100

AS-BUILT CERTIFICATION

"I HEREBY CERTIFY THAT THE FACILITY SHOWN ON THIS PLAN WAS CONSTRUCTED AS SHOWN ON THE "AS-BUILT" PLANS AND MEETS THE APPROVED PLANS AND SPECIFICATIONS.

SIGNATURE OF ENGINEER: CONSULTANT'S HAZARD CLASS CERTIFICATION
 DATE: SEPT 18, 1998

"I CERTIFY THAT THIS POND MEETS ALL REQUIREMENTS FOR HAZARD CLASS 'A'. [REQUIREMENTS AS STATED IN THE SOIL CONSERVATION SERVICE - MARYLAND STANDARDS & SPECIFICATIONS FOR POND, CODE 378, NOVEMBER, 1992.] ALL NECESSARY INVESTIGATIONS & COMPUTATIONS HAVE BEEN PERFORMED TO VERIFY THIS FINDING. A COPY OF SAID INFORMATION HAS BEEN SUPPLIED TO SCS / HCSO."

SIGNATURE OF ENGINEER: RICHARD E. MATZ
 DATE: SEPT 18, 1998

ENGINEER'S CERTIFICATION
 "I CERTIFY THAT THIS PLAN FOR POND CONSTRUCTION, EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS. 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 & 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 SOIL CONSERVATION DISTRICT."

SIGNATURE OF ENGINEER: RICHARD E. MATZ
 DATE: SEPT 18, 1998

OWNER/DEVELOPER'S CERTIFICATION
 "I/WE CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THESE PLANS, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF 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 & 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 SOIL CONSERVATION DISTRICT."

SIGNATURE OF DEVELOPER/TITLE: ROBERT E. SAVAL
 DATE: 9/18/98

ADDRESS CHART

LOT NUMBER	STREET ADDRESS
SUBJECT SITE	6740 DORSEY ROAD

PERMIT INFORMATION CHART

SUBDIVISION NAME	SECTION/AREA	LOT/PARCEL #
DORSEY INDUSTRIES	N/A	373 & 413
PLAT NO. OR L/F BLOCK # ZONE	TAX/ZONE MAP ELECT. DIST.	CENSUS TRACT
1314/005 23 & 5 M-1	37 & 43 FIRST	6012
WATER CODE	SEWER CODE	
B-01	2320000	

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS
 HOWARD COUNTY HEALTH DEPARTMENT

12/8/98 DATE
 COUNTY HEALTH OFFICER

APPROVED: DEPARTMENT OF PLANNING & ZONING
 12/10/98 DATE
 CHIEF, DEVELOPMENT ENGINEERING DIVISION

12/10/98 DATE
 CHIEF, DIVISION OF LAND DEVELOPMENT

12/11/98 DATE
 DIRECTOR

STORMWATER MANAGEMENT PLAN
 SDP - 99 - 32
"DORSEY INDUSTRIES"
 WAREHOUSE EXPANSION
 SAVAL REALTY COMPANY
 6740 DORSEY ROAD
 PREVIOUS SDP 86-121 & 88-35
 ELECTION DISTRICT: FIRST HOWARD COUNTY, MARYLAND
 CENSUS TRACT NO.: 6012 TAX MAP NO.: 37 & 43 PARCEL NO.: 413 & 373
 WATER CODE: B-01 SEWER CODE: 2320000
 SCALE: AS SHOWN DATE: SEPT. 23, 1998



Colbert Matz Rosenfelt, Inc.
 Engineers * Surveyors * Planners
 2835 Smith Avenue, Suite G
 Baltimore, Maryland 21209
 Telephone: (410) 653-3838
 Facsimile: (410) 653-7953

NO.	DATE	REVISIONS:	BY	SHEET 3 OF 9

SPECIFICATIONS FOR POND CONSTRUCTION

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. Channel banks and sharp breaks shall be sloped to no steeper than 1:1.

Areas to be covered by the reservoir will be cleared of all trees, brush, logs, 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 CC, SC, CH, or CL. Consideration may be given to the use of other materials in the embankment if design and construction are supervised by a geotechnical engineer.

Placement - Areas on which fill is to be placed shall be scarified prior to placement of fill. Fill materials shall be placed in 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 driven equipment be allowed to operate closer than four feet, measured horizontally, to any part of a structure. Under no circumstances shall equipment be driven over any part of a concrete structure or pipe, unless there is a compacted fill of 24" or greater over the structure 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, Plasti-Cote, Blac-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 Coated Steel Pipe) - This pipe and its appurtenances shall conform to the requirements 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, end sections, etc., must be composed of the same material as the pipe. Metals must be insulated from dissimilar materials with use of rubber or plastic insulating materials at least 24 mils 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 re-rolled an adequate number of corrugations to accommodate the band width. The following type connections are acceptable for pipes less than 48" 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 hugger type band with 0-rings gaskets having a minimum diameter of 1/2" greater than the corrugation depth. Pipes 48" 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.

4. 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.

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. An approved equivalent is AWWA Specification C-302.

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 recommendations of the manufacturer of the material. After the joints are sealed for the entire line, the bedding shall be placed so that all spaces under the pipe are filled. Care shall be exercised to prevent any deviation from the original line and grade of the pipe. The first joint must be located within 2 feet from the riser.

4. Backfilling shall conform to "Structure Backfill."

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

Polyvinyl Chloride (PVC) Pipe - All of the following criteria shall apply for polyvinyl chloride (PVC) pipe:

1. Materials - PVC pipe shall be PVC-1120 or PVC-1220 conforming to ASTM D-1785 or ASTM D-2241.

2. Joints and connections to anti-seep collars shall 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. 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 608, Mix No. 3.

Rock Riprap

All rock shall be dense, sound and free from cracks, seams and other defects conducive to accelerated weathering. The rock fragments shall be angular to subangular in shape. The least dimension of an individual rock fragment shall be not less than one-third the greatest dimension of the fragment.

The rock shall have the following properties:

1. Bulk specific gravity (saturated surface-dry basis) not less than 2.5.
2. Absorption not more than three percent.
3. Soundness: Weight loss in five cycles not more than 20 percent when sodium sulfate is used.

Bulk specific gravity and absorption shall be determined according to ASTM C 127. The test for soundness shall be performed according to ASTM C 88.

The riprap shall be placed to the required thickness in one operation. The rock shall be delivered and placed in a manner that will insure the riprap in place, shall be reasonably homogeneous with the larger rocks distributed and firmly in contact one to another with the smaller rocks filling the voids between the larger 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 919.12.

Care of Water During Construction

All work on permanent structures shall be carried out in areas free from water. The Contractor shall construct and maintain all temporary dikes, levees, cofferdams, drainage channels, and stream diversions necessary to protect the areas to be occupied by the permanent works. The contractor shall also furnish, install, operate and maintain all necessary pumping and other equipment required for removal of water from the various parts of the work and for maintaining the excavations, foundation and other parts of the work free from water as required or directed by the engineer for constructing each part of the work.

After having served their purpose, all temporary protective works shall be removed or leveled and graded to the extent required to prevent obstruction in any degree whatsoever of the flow of water to the spillway or outlet works and so as not to interfere in any way with the operation or maintenance of the structure.

Stream diversions shall be maintained until the 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 berms shall be stabilized by seeding, liming, fertilizing and mulching in accordance with the Maryland Soil Conservation Service Standards and Specifications for Critical Area Planting (MD-342) or as shown on the accompanying drawings.

TOPSOIL STANDARDS (CONT'D.)

IX. TOPSOIL APPLICATION: I. WHEN TOPSOILING, MAINTAIN NEEDED EROSION & SEDIMENT CONTROL PRACTICES SUCH AS DIVERSIONS, GRADE STABILIZATION STRUCTURES, EARTH DICES, SLOPE SILT FENCE & SEDIMENT TRAPS & BASINS. II. GRADES ON THE AREAS TO BE TOPSOILED WHICH HAVE BEEN PREVIOUSLY ESTABLISHED, SHALL BE MAINTAINED AT LEAST 4" HIGHER IN RELATION. III. TOPSOIL SHALL BE UNIFORMLY DISTRIBUTED IN A 4" TO 6" LAYER & LIGHTLY COMPACTED TO A MINIMUM THICKNESS OF 4". EXCESSING SHALL BE PERFORMED IN SUCH A MANNER THAT SOILINGS OR SEEDING CAN PROCEED WITH A MINIMUM OF ADDITIONAL SOIL PREPARATION & TILLAGE. ANY IRREGULARITIES IN THE SURFACE RESULTING FROM TOPSOILING OR OTHER OPERATIONS SHALL BE CORRECTED IN ORDER TO PREVENT THE FORMATION OF DEPRESSIONS OR WATER POCKETS. IV. TOPSOIL SHALL NOT BE PLACED WHILE THE TOPSOIL OR SUBSOIL IS IN A FROZEN OR MOIST CONDITION, WHEN THE SUBSOIL IS EXCESSIVELY WET OR IN A CONDITION THAT MAY OTHERWISE BE DETRIMENTAL TO PROPER GRADING & SEEDING PREPARATION.

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 Fabric

Non-woven filter fabric shall be Mirafi 140N or approved equivalent. Woven filter fabric shall be Amoco 2006 or approved equivalent.

Reinforcement

Reinforcing steel shall conform to the specifications of ASTM A615, Grade 60.

As-Built Plans & Certifications are required for this Stormwater Management Facility. These must be prepared and sealed by a REGISTERED PROFESSIONAL ENGINEER. Howard County will not prepare the As-Built Plans or Certification. The STORMWATER MANAGEMENT BOND will not be released until the As-Built Plans & Certifications are approved by Howard County.

In order to prepare the required As-Built Plans & Certification, this Stormwater Management Facility must be INSPECTED AT specific stages during construction by the engineer. The CONTRACTOR shall notify the ENGINEER at least five (5) working days prior to starting any work shown on these plans.

General

Unless otherwise noted, all materials and construction practices shall conform to the following:

1. "Standard Specifications and Details" (Volume IV) of the Howard County Department of Public Works.
2. "Standard Specifications for Construction and Materials", 1982, of the Maryland State Highway Administration, as amended.
3. "Standards and Specifications for Ponds" of the Soil Conservation Service of Maryland (MD-378), November 1992, as amended.

Maintenance Schedule (Cont. Below)

All stormwater management facilities shall be inspected every three (3) months and after every major storm during the first year of operation. Thereafter, facilities shall be inspected semi-annually.

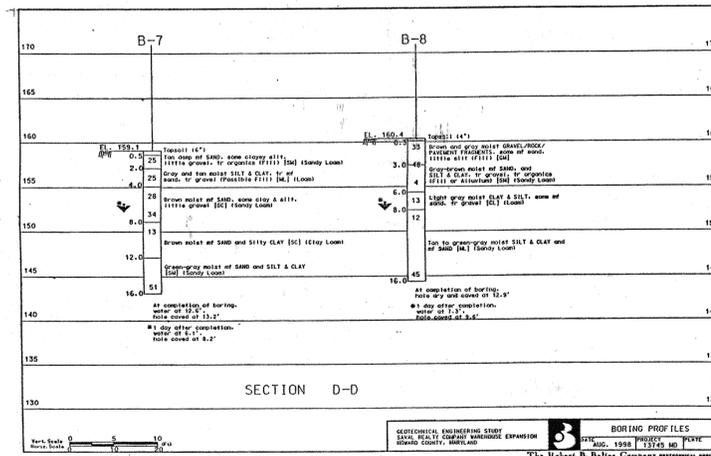
Construction Inspection Schedule

The stormwater management facility shall be inspected, at a minimum, at the following stages of construction:

- Upon completion of excavation for the core trench, principal spillway structure & dewatering device.
- During installation of the principal spillway and the dewatering device.
- During embankment construction.
- Upon completion of final grading and establishment of permanent stabilization.

Maintenance Schedule (Cont.)

1. Top and side slopes of the embankment shall be mowed a minimum of two (2) times a year, once in June and once in September. Other side slopes, and maintenance access should be mowed as needed.
2. Debris and litter shall be removed during regular mowing operations and as needed.
3. When deemed necessary for aesthetic reasons, sediment should be removed from the pond. Approval of the Department of Public Works is required.



OWNER/DEVELOPER
SAVAL REALTY COMPANY
P.O. BOX 24257
6740 DORSEY ROAD
DORSEY, MARYLAND 21227
(410) 379-5100

ENGINEER'S CERTIFICATION

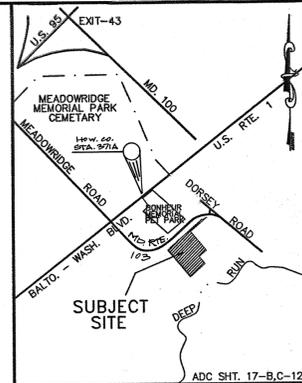
I CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THESE PLANS, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I SHALL ENGAGE A REGISTERED PROFESSIONAL ENGINEER TO SUPERVISE POND CONSTRUCTION & PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN AS-BUILT PLAN OF THE POND IN ACCORDANCE WITH THE HOWARD SOIL CONSERVATION DISTRICT'S POLICY ON POND CONSTRUCTION. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTIONS BY THE HOWARD SOIL CONSERVATION DISTRICT.

Richard E. Matz 9/18/98
SIGNATURE OF ENGINEER DATE
PRINT NAME BELOW SIGNATURE RICHARD E. MATZ

OWNER/DEVELOPER'S CERTIFICATION

I/WE CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THESE PLANS, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF 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 & PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN AS-BUILT PLAN OF THE POND IN ACCORDANCE WITH THE HOWARD SOIL CONSERVATION DISTRICT'S POLICY ON POND CONSTRUCTION. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTIONS BY THE HOWARD SOIL CONSERVATION DISTRICT.

Albert E. Saval 9/18/98
SIGNATURE OF DEVELOPER DATE
PRINT NAME BELOW SIGNATURE ALBERT E. SAVAL



VICINITY MAP
SCALE: 1"=2000'

BENCHMARK DATA

HOWARD COUNTY GEODETIC CONTROL:
STATION NO.: 37A DESCRIPTION: 3/4" IRON ROD W/ A 4" STAMPED ALUMINUM CAP.
N 553315.158
E 1379982.120
ELEV.: 195.762

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

John J. Adams 12/3/98
HOWARD SOIL CONSERVATION DISTRICT 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 Simons 12/3/98
U.S. E.A. NATURAL RESOURCES CONSERVATION SERVICE DATE

ADDRESS CHART	
LOT NUMBER	STREET ADDRESS
SUBJECT SITE	6740 DORSEY ROAD

PERMIT INFORMATION CHART				
SUBDIVISION NAME	SECTION/AREA	LOT/PARCEL #	TAX/ZONE MAP	ELECT. DIST.
DORSEY INDUSTRIES	N/A	373 & 413	37 & 43	FIRST
PLAT NO. OR L/F	BLOCK #	ZONE	TAX/ZONE MAP	ELECT. DIST.
1314/005	23 & 5	M-1	37 & 43	FIRST
CENSUS TRACT				
6012				
WATER CODE	SEWER CODE			
B-01	2320000			

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS
HOWARD COUNTY HEALTH DEPARTMENT

Joyce M. Bond 12/8/98
COUNTY HEALTH OFFICER DATE

APPROVED: DEPARTMENT OF PLANNING & ZONING
Richard Blood 12/10/98
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

Richard Blood 12/10/98
CHIEF, DIVISION OF LAND DEVELOPMENT DATE

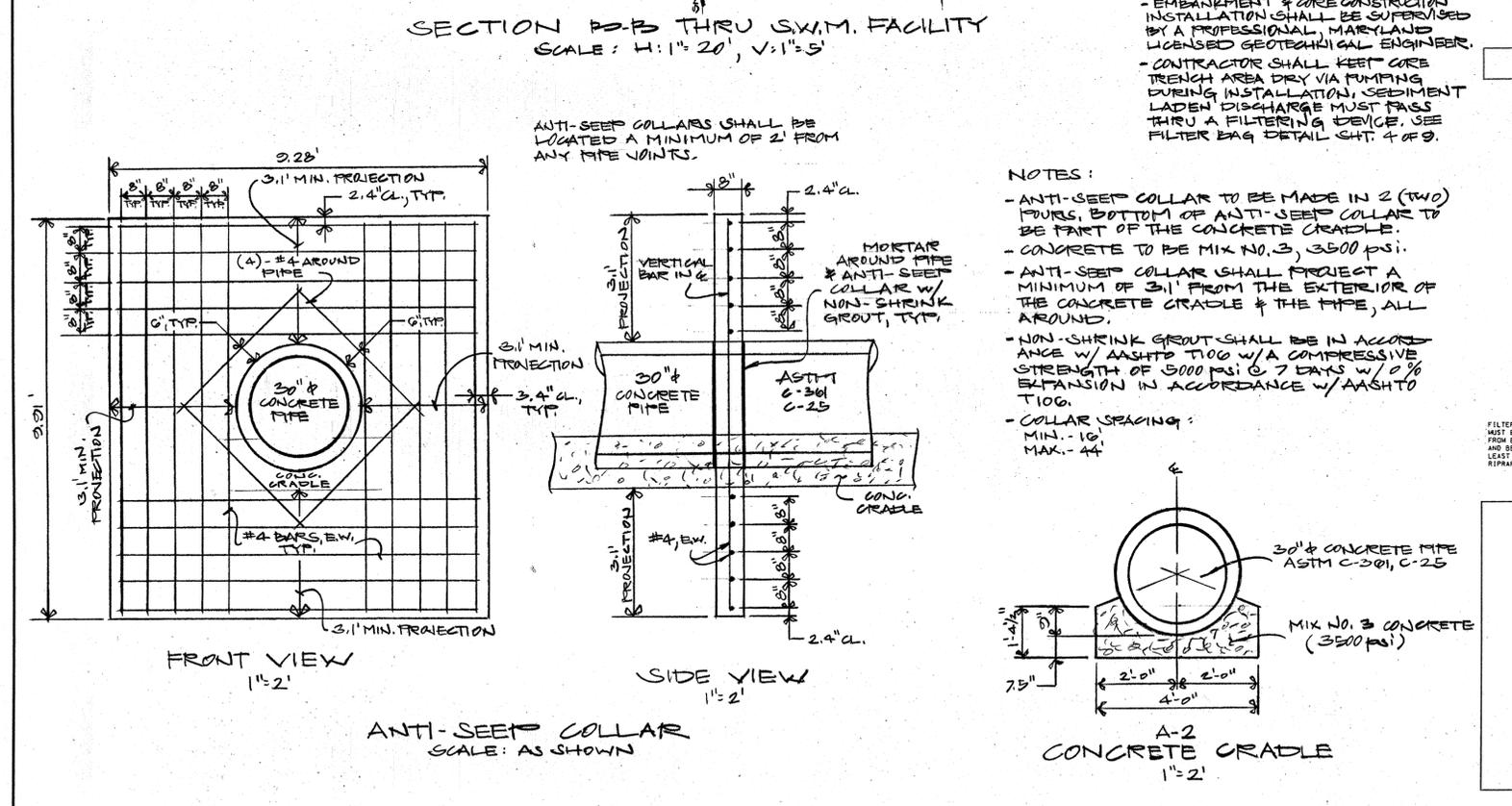
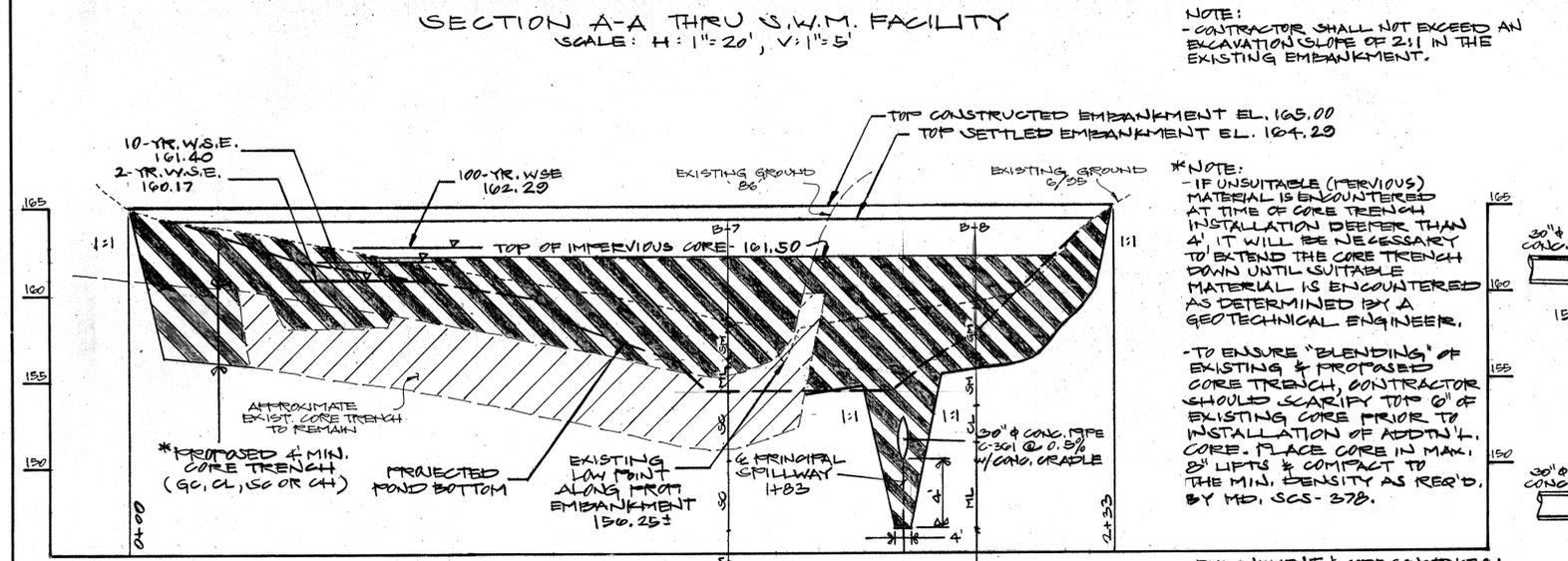
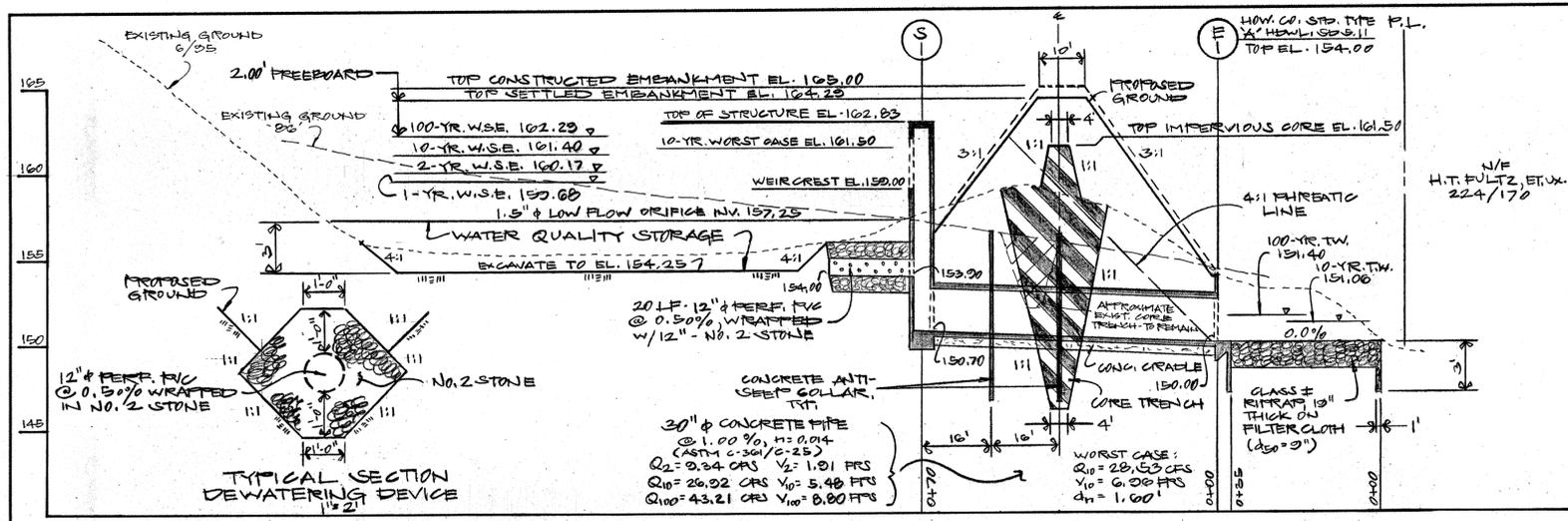
Richard Blood 12/11/98
DIRECTOR DATE

S.W.M. PLAN NOTES & DETAILS
SDP - 99-32
"DORSEY INDUSTRIES"
WAREHOUSE EXPANSION
SAVAL REALTY COMPANY
6740 DORSEY ROAD
PREVIOUS SDP 86-121 & 88-35
ELECTION DISTRICT: FIRST HOWARD COUNTY, MARYLAND
CENSUS TRACT NO.: 6012 TAX MAP NO.: 37 & 43 PARCEL NO.: 413 & 373
WATER CODE: B-01 SEWER CODE: 2320000
SCALE: AS SHOWN DATE: SEPT. 23, 1998

Colbert Matz Rosenfelt, Inc.
Engineers * Surveyors * Planners
2835 Smith Avenue, Suite G
Baltimore, Maryland 21209
Telephone: (410) 653-3838
Facsimile: (410) 653-7953

NO.	DATE	REVISIONS:	BY	SHEET 5 OF 9

SDP - 99 - 32



EARTHWORK (AS PER SITE SOIL REPORT)

It is expected that conventional excavation equipment and methods should be suitable for most of the excavation expected for this project. It is noted that specialized techniques may be appropriate for "mucking out" the existing pond area, or for deeper excavations which penetrate the water table.

All fill placed for the buildings, pavements, utility backfill, wall backfill, or any other location requiring stable support and/or minimal settlement shall be compacted as controlled compacted fill. The fill construction shall, as a minimum requirement, be in accordance with the enclosure and as outlined below, the ground surface to receive fill must be properly prepared, including the stripping and removal of any unsuitable materials. All proposed borrow materials shall be submitted to the geotechnical engineer of record (The Robert B. Baller Company) for testing and approval prior to being utilized as controlled compacted fill.

It appears that a portion of the materials excavated during footing installation will prove suitable for reuse as fill; however, it will be necessary to closely monitor these materials to ensure that wet, otherwise unsuitable materials which are not considered acceptable for use as controlled fill. The two samples tested for organic content contained 4.1 and 4.6 percent organic. These values are considered high, and accordingly, these materials are not recommended for use as fill. It must be noted that minimal organics were noted in the existing fill at other locations; however, the amounts observed in the recovered samples at these other locations (particularly the area of the proposed warehouse addition) should not preclude their use as fill.

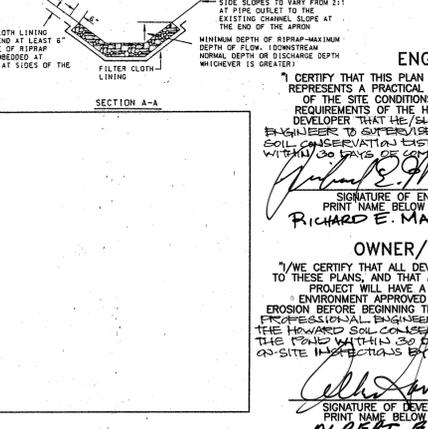
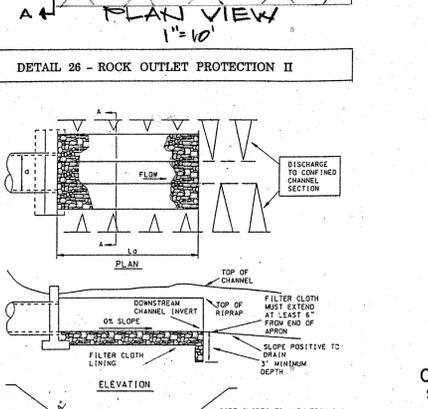
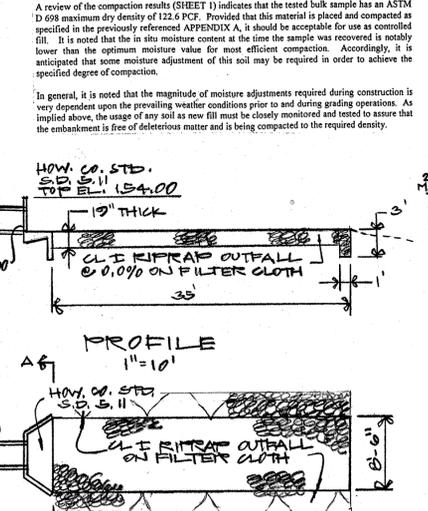
It must be noted that existing fills are unpredictable as to their composition and consistency, especially if not placed in a controlled manner. Accordingly, some existing fills at the site may contain degrees of deleterious contamination which will prevent their re-use.

From the probable building slab elevation, it appears that minor to moderate depths of controlled compacted fill will be required. For completion of this work, the following criteria are recommended for the earthwork which will be required to establish the building pad grades:

- Within the described pad area, strip any pavements, vegetation, topsoil, organic, contaminated, or otherwise unsuitable materials to expose clean soils. The subject area shall encompass the building footprint and extend outward from the exterior edges of the footings a minimum of 3 feet plus 1 additional foot horizontally for every foot of new fill to be placed.
- Proof roll the stripped soil surface with a fully loaded geotechnical dump truck or other approved equipment, under the observation of a geotechnical engineer or qualified, experienced soils technician, to verify and establish a uniform, dense and stable condition. Any soft, yielding, organic, or otherwise unacceptable soils detected shall be cut out and replaced with controlled compacted fill.
- Once a stable, unyielding soil base has been established, place controlled compacted fill as required to achieve the plan subgrade elevation. The work shall be performed in accordance with generally accepted earthwork construction procedures, and as discussed in APPENDIX "A", EARTHWORK COMPACTION.

A review of the compaction results (SHEET 1) indicates that the tested bulk sample has an ASTM D 698 maximum dry density of 122.6 PCF. Provided that this material is placed and compacted as specified in the previously referenced APPENDIX A, it should be acceptable for use as controlled fill. It is noted that the in situ moisture content at the time the sample was recovered is notably lower than the optimum moisture value for most efficient compaction. Accordingly, it is anticipated that some moisture adjustment of this soil may be required in order to achieve the specified degree of compaction.

In general, it is noted that the magnitude of moisture adjustments required during construction is very dependent upon the prevailing weather conditions prior to and during grading operations. As implied above, the usage of any soil as new fill must be closely monitored and tested to assure that the embankment is free of deleterious matter and is being compacted to the required density.



APPENDIX "A" EARTHWORK COMPACTION

Embankment shall be constructed of approved materials from the excavation or from other sources. The material shall be free from organic materials, trash, stumps, logs, stumps and other deleterious substances.

Before depositing fills, the surface of the ground shall be cleared of all refuse, brush, large stones, grass and roots. All organic matter, mud, silt and otherwise unsuitable soils, shall be removed from the surface upon which fills are to be placed. The surface shall be plowed or scarified to a depth of six inches. Surface soils so scarified, or which have been disturbed by grubbing and stripping operations, shall be compacted to undisturbed soil below by discing, leveling, rolling and compacting at the moisture content and to the density specified below for compacted embankments.

Where fills are made on hillsides or slopes, the slope of the original ground upon which the fill is to be placed shall be plowed or scarified deeply, or where the slope ratio of the original ground is steeper than 3 horizontal to 1 vertical, the bank shall be stepped or benched, when considered necessary by the Engineer, in order that the placement of the fill may be accomplished in horizontal layers.

Placing, Spreading and Compacting Fill Materials:

- The fill material shall be placed in layers which, before compaction shall not exceed 8 inches. Each layer shall be spread uniformly and evenly and shall be thoroughly blade mixed during the spreading to ensure uniformity of material in each layer.
- After each layer has been placed, mixed and spread evenly, it shall be thoroughly compacted to not less than 95% of the maximum dry density as determined by ASTM D 698 (ASHTO Designation T-99).
- The moisture content of the fill shall be as required in order to attain the degree of compaction specified.
- Compaction shall be by approved multiple-wheel pneumatic tired rollers, vibratory rollers or other types of acceptable rollers.
- The filling operation shall be continued in 8-inch (as deposited loose) layers, as specified above, until fill has been brought to the slope and grade as shown on the contract drawing, making proper allowances for thickness of topsoil, pavement, floor slabs, etc.
- The fill shall be constructed in such a manner that the surface will be adapted to drain at all times, and all fill shall be deposited to prevent excessive moisture accumulation from rainwater.
- When the work is interrupted by rain, fill operations shall not be resumed until field tests indicate that the moisture content of the top 6 inches of fill is within the limits required to achieve compaction.

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: 12/3/98

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.

U.S.E.A. NATURAL RESOURCES CONSERVATION SERVICE DATE: 12/3/98

ADDRESS CHART	
LOT NUMBER SUBJECT SITE	STREET ADDRESS 6740 DORSEY ROAD
PERMIT INFORMATION CHART	
SUBDIVISION NAME DORSEY INDUSTRIES	SECTION/AREA N/A
LOT/PARCEL # 373 & 413	
PLAT NO. OR L/F BLOCK # ZONE 1314/005 23 & 5 M-1	TAX/ZONE MAP ELECT. DIST. 37 & 43 FIRST
CENSUS TRACT 6012	
WATER CODE B-01	SEWER CODE 2320000

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS HOWARD COUNTY HEALTH DEPARTMENT

DATE: 12/8/98

APPROVED: DEPARTMENT OF PLANNING & ZONING

DATE: 12/10/98

DATE: 12/4/98

DATE: 12/11/98

S.W.M. PLAN NOTES & DETAILS
SDP - 99-32
"DORSEY INDUSTRIES"
WAREHOUSE EXPANSION
SAVAL REALTY COMPANY
6740 DORSEY ROAD
PREVIOUS SDP 86-121 & 88-35
ELECTION DISTRICT: FIRST HOWARD COUNTY, MARYLAND
CENSUS TRACT NO.: 6012 TAX MAP NO.: 37 & 43 PARCEL NO.: 413 & 373
WATER CODE: B-01 SEWER CODE: 2320000
SCALE: AS SHOWN DATE: SET: 23, 1998

ENGINEER'S CERTIFICATION
I CERTIFY THAT THIS PLAN FOR POND CONSTRUCTION, EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS. 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. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTIONS BY THE HOWARD SOIL CONSERVATION DISTRICT.

DATE: 10/20/98

OWNER/DEVELOPER'S CERTIFICATION
I/WE CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THESE PLANS, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF 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 SOIL CONSERVATION DISTRICT.

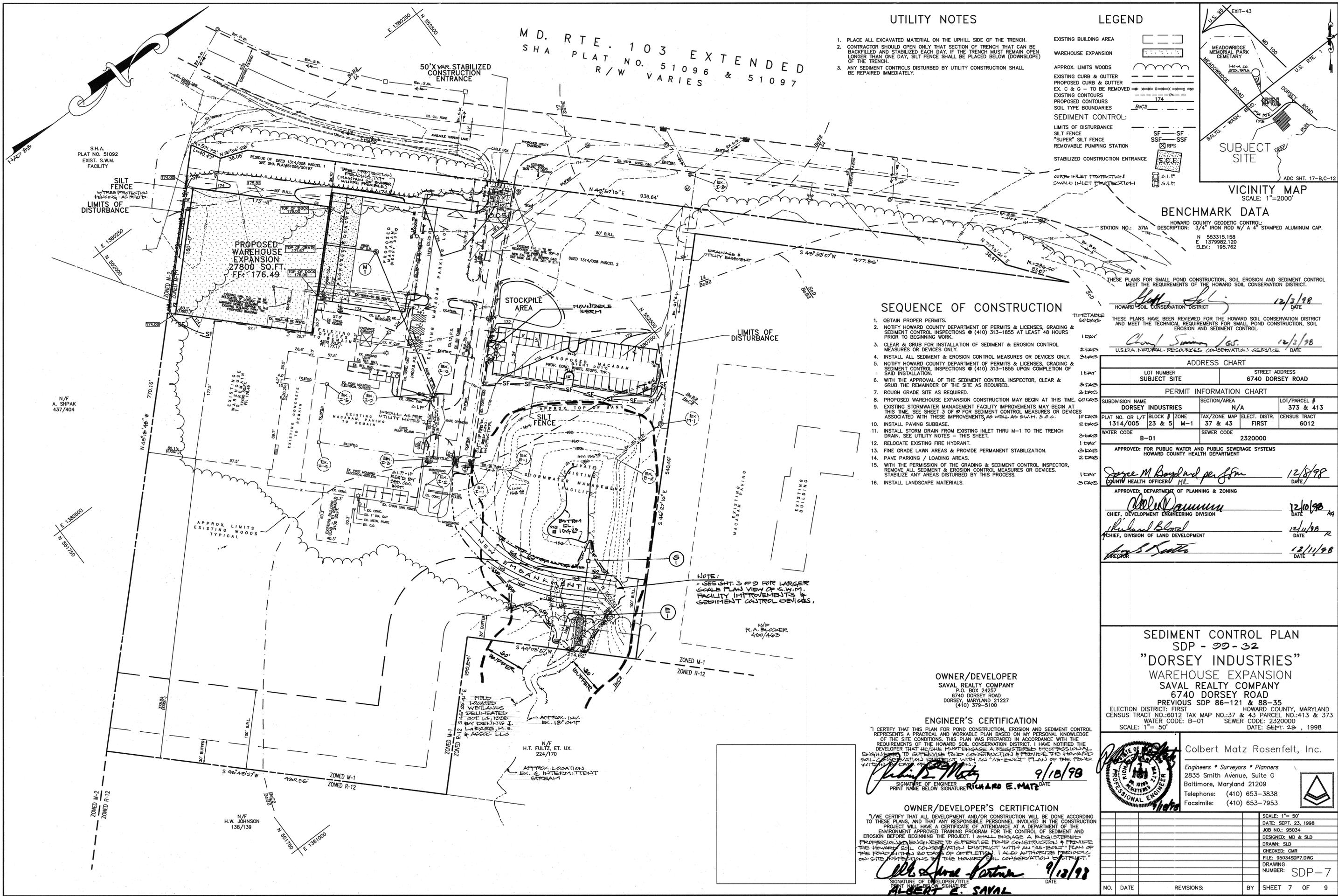
DATE: 10/20/98

Colbert Matz Rosenfelt, Inc.
Engineers • Surveyors • Planners
2835 Smith Avenue, Suite G
Baltimore, Maryland 21209
Telephone: (410) 653-3838
Facsimile: (410) 653-7953

NO.	DATE	REVISIONS:	BY

SCALE: AS SHOWN
DATE: SET: 23, 1998
JOB NO.: 95034
DESIGNED: MD & SLD
DRAWN: SLD
CHECKED: CMR
FILE: 95034SDP4.DWG
DRAWING NUMBER: SDP-6

NO. DATE REVISIONS: BY SHEET 6 OF 9



UTILITY NOTES

LEGEND

- PLACE ALL EXCAVATED MATERIAL ON THE UPHILL SIDE OF THE TRENCH.
- CONTRACTOR SHOULD OPEN ONLY THAT SECTION OF TRENCH THAT CAN BE BACKFILLED AND STABILIZED EACH DAY. IF THE TRENCH MUST REMAIN OPEN LONGER THAN ONE DAY, SILT FENCE SHALL BE PLACED BELOW (DOWNSLOPE) OF THE TRENCH.
- ANY SEDIMENT CONTROLS DISTURBED BY UTILITY CONSTRUCTION SHALL BE REPAIRED IMMEDIATELY.

- EXISTING BUILDING AREA
- WAREHOUSE EXPANSION
- APPROX. LIMITS WOODS
- EXISTING CURB & GUTTER
- PROPOSED CURB & GUTTER
- EXISTING CONTOURS
- PROPOSED CONTOURS
- SOIL TYPE BOUNDARIES
- SEDIMENT CONTROL:
- LIMITS OF DISTURBANCE
- SILT FENCE
- "SUPER" SILT FENCE
- REMOVABLE PUMPING STATION
- STABILIZED CONSTRUCTION ENTRANCE
- CURB INLET PROTECTION
- SWALE INLET PROTECTION

SEQUENCE OF CONSTRUCTION

- OBTAIN PROPER PERMITS.
- NOTIFY HOWARD COUNTY DEPARTMENT OF PERMITS & LICENSES, GRADING & SEDIMENT CONTROL INSPECTIONS @ (410) 313-1855 AT LEAST 48 HOURS PRIOR TO BEGINNING WORK.
- CLEAR & GRUB FOR INSTALLATION OF SEDIMENT & EROSION CONTROL MEASURES OR DEVICES ONLY.
- INSTALL ALL SEDIMENT & EROSION CONTROL MEASURES OR DEVICES ONLY.
- NOTIFY HOWARD COUNTY DEPARTMENT OF PERMITS & LICENSES, GRADING & SEDIMENT CONTROL INSPECTIONS @ (410) 313-1855 UPON COMPLETION OF SAID INSTALLATION.
- WITH THE APPROVAL OF THE SEDIMENT CONTROL INSPECTOR, CLEAR & GRUB THE REMAINDER OF THE SITE AS REQUIRED.
- ROUGH GRADE SITE AS REQUIRED.
- PROPOSED WAREHOUSE EXPANSION CONSTRUCTION MAY BEGIN AT THIS TIME.
- EXISTING STORM DRAIN FROM EXISTING INLET THRU M-1 TO THE TRENCH DRAIN. SEE UTILITY NOTES - THIS SHEET.
- RELOCATE EXISTING FIRE HYDRANT.
- FINE GRADE LAWN AREAS & PROVIDE PERMANENT STABILIZATION.
- PAVE PARKING / LOADING AREAS.
- WITH THE PERMISSION OF THE GRADING & SEDIMENT CONTROL INSPECTOR, REMOVE ALL SEDIMENT & EROSION CONTROL MEASURES OR DEVICES. STABILIZE ANY AREAS DISTURBED BY THIS PROCESS.
- INSTALL LANDSCAPE MATERIALS.

VICINITY MAP
SCALE: 1"=200'

BENCHMARK DATA

HOWARD COUNTY GEODETIC CONTROL
DESCRIPTION: 3/4" IRON ROD W/ A 4" STAMPED ALUMINUM CAP.
STATION NO.: 371A
N 553315.158
E 1379982.120
ELEV.: 195.762

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: 12/3/98

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.

U.S.D.A. NATIONAL RESOURCES CONSERVATION SERVICE
DATE: 12/3/98

ADDRESS CHART

LOT NUMBER	STREET ADDRESS
SUBJECT SITE	6740 DORSEY ROAD

PERMIT INFORMATION CHART

SUBDIVISION NAME	SECTION/AREA	LOT/PARCEL #
DORSEY INDUSTRIES	N/A	373 & 413
PLAT NO. OR L/F BLOCK #	TAX/ZONE MAP	ELECT. DIST.
1314/005	23 & 5	M-1
WATER CODE	SEWER CODE	
B-01	2320000	

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS
HOWARD COUNTY HEALTH DEPARTMENT

APPROVED: *George M. Boydland* 12/8/98
COUNTY HEALTH OFFICER HL DATE

APPROVED: DEPARTMENT OF PLANNING & ZONING
Richard Blum 12/11/98
CHIEF, DIVISION OF LAND DEVELOPMENT DATE

Richard Blum 12/11/98
CHIEF, DIVISION OF LAND DEVELOPMENT DATE

Richard Blum 12/11/98
DIRECTOR DATE

SEDIMENT CONTROL PLAN
SDP - 00-32
"DORSEY INDUSTRIES"
WAREHOUSE EXPANSION
SAVAL REALTY COMPANY
6740 DORSEY ROAD
PREVIOUS SDP 86-121 & 88-35

ELECTION DISTRICT: FIRST HOWARD COUNTY, MARYLAND
CENSUS TRACT NO.: 6012 TAX MAP NO.: 37 & 43 PARCEL NO.: 413 & 373
WATER CODE: B-01 SEWER CODE: 2320000
SCALE: 1"=50' DATE: SEPT. 23, 1998

Colbert Matz Rosenfelt, Inc.
Engineers * Surveyors * Planners
2835 Smith Avenue, Suite G
Baltimore, Maryland 21209
Telephone: (410) 653-3838
Facsimile: (410) 653-7953

SCALE: 1"=50'
DATE: SEPT. 23, 1998
JOB NO.: 95034
DESIGNED: MD & SLD
DRAWN: SLD
CHECKED: CMR
FILE: 95034SDP7.DWG
DRAWING NUMBER: SDP-7

OWNER/DEVELOPER
SAVAL REALTY COMPANY
P.O. BOX 24257
6740 DORSEY ROAD
DORSEY, MARYLAND 21227
(410) 379-5100

ENGINEER'S CERTIFICATION

I CERTIFY THAT THIS PLAN FOR FOND 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 FOND CONSTRUCTION & PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN "AS-BUILT" PLAN OF THE FOND WITHIN 30 DAYS OF COMPLETION. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTIONS BY THE HOWARD SOIL CONSERVATION DISTRICT.

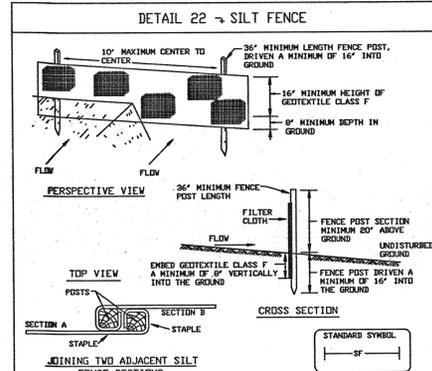
Richard E. Matz 9/18/98
SIGNATURE OF ENGINEER DATE
PRINT NAME BELOW SIGNATURE RICHARD E. MATZ

OWNER/DEVELOPER'S CERTIFICATION

I/WE CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THESE PLANS, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF 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 FOND CONSTRUCTION & PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN "AS-BUILT" PLAN OF THE FOND WITHIN 30 DAYS OF COMPLETION. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTIONS BY THE HOWARD SOIL CONSERVATION DISTRICT.

Albert E. Saval 9/12/98
SIGNATURE OF DEVELOPER/TITLE DATE
PRINT NAME BELOW SIGNATURE ALBERT E. SAVAL

NO.	DATE	REVISIONS:	BY	SHEET 7 OF 9
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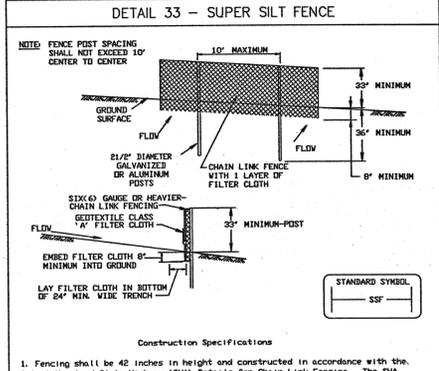


DETAIL 22 - SILT FENCE

Construction Specifications

- Fence posts shall be a minimum of 36" long driven 16" minimum into the ground. Posts shall be 1 1/2" x 1 1/2" square (minimum) cut, or 1 3/4" diameter (minimum) round and shall be of sound quality hardwood. Steel posts will be standard 1" or 1 1/4" section weighing not less than 1.00 pound per linear foot.
- Geotextile shall be fastened securely to each fence post with wire ties or staples at top and mid-section and shall meet the following requirements for Geotextile Class F:
 - Tensile Strength: 50 lbs/in. (min.) Test MSMT 509
 - Tensile Modulus: 20 lbs/in. (min.) Test MSMT 509
 - Flow Rate: 0.3 gal./sq. ft./minute (max.) Test MSMT 322
 - Filtering Efficiency: 75% (min.) Test MSMT 322
- Where ends of geotextile fabric come together, they shall be overlapped, folded and stapled to prevent sediment bypass.
- Silt fence shall be inspected after each rainfall event and maintained when bulges occur or when sediment accumulation reaches 50% of the fabric height.

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE PAGE E-16-2 MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

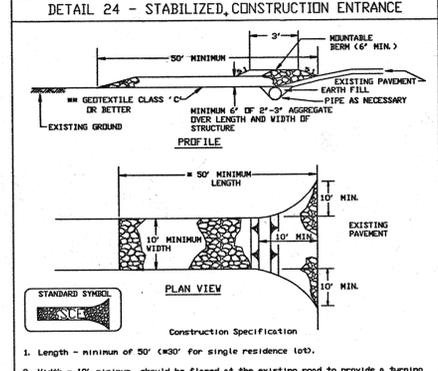


DETAIL 33 - SUPER SILT FENCE

Construction Specifications

- Fencing shall be 42 inches in height and constructed in accordance with the latest Maryland State Highway (SHA) Details for Chain Link Fencing. The SHA specifications for a 6' fence shall be used, substituting 42 inch fabric and 6 foot length posts.
- The posts do not need to be set in concrete.
- Chain link fence shall be fastened securely to the fence posts with wire ties or staples. The lower tension wire, brace and truss rods, drive anchors and post caps are not required except on the ends of the fence. The chain link fencing shall be six (6) gauge or heavier.
- Filter cloth shall be fastened securely to the chain link fence with ties spaced every 24" at the top and mid section.
- Filter cloth shall be embedded a minimum of 8" into the ground.
- When two sections of geotextile fabric adjoin each other, they shall be overlapped by 6" and folded.
- Maintenance shall be performed as needed and silt bulges removed when 'bulges' develop in the silt fence, or when silt reaches 50% of the fence height.

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

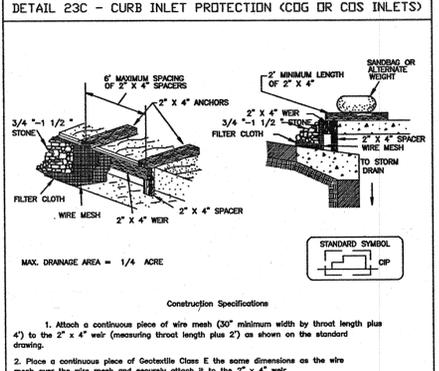


DETAIL 24 - STABILIZED CONSTRUCTION ENTRANCE

Construction Specifications

- Length - minimum of 50' (#30' for single residence lot).
- Width - 10' minimum, minimum shall be flared at the existing road to provide a turning radius.
- Geotextile fabric (filter cloth) shall be placed over the existing ground prior to placing stone. The pipe opening authority may not require single family residences to use geotextile.
- Stone - crushed aggregate (2" to 3") or reclaimed or recycled concrete equivalent shall be placed at least 6" deep over the length and width of the entrance.
- Surface Water - all surface water flowing to or diverted toward construction entrances shall be piped through the entrance, maintaining positive drainage. Pipe installed through the stabilized construction entrance shall be protected with a mountable berm with 5:1 slopes and a minimum of 6" of stone over the pipe. Pipe has to be sized according to the drainage. When the SDC is located at a high spot and has no drainage to convey a pipe will not be necessary. Pipe should be sized according to the amount of runoff to be conveyed. A 6" minimum will be required.
- Location - A stabilized construction entrance shall be located at every point where construction traffic enters or leaves a construction site. Vehicles leaving the site must travel over the entire length of the stabilized construction entrance.

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE PAGE F-10-3 MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

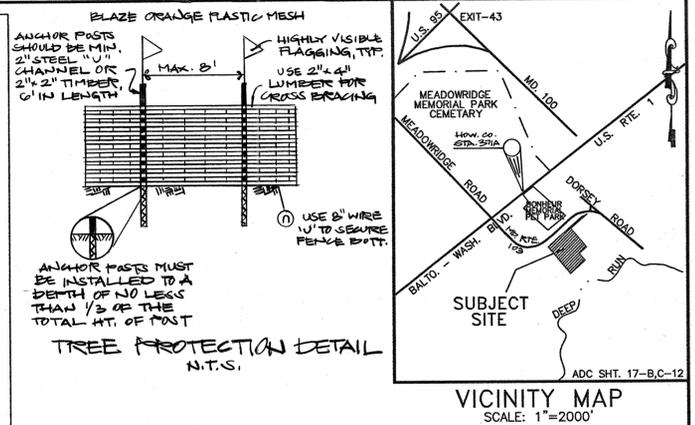


DETAIL 23C - CURB INLET PROTECTION (CDS OR CDS INLETS)

Construction Specifications

- Attach a continuous piece of wire mesh (20" minimum width by throat length plus 4") to the 2' x 4' curb (measuring throat length plus 2") as shown on the standard drawing.
- Place a continuous piece of Geotextile Class E of the same dimensions as the wire mesh over the wire mesh and securely attach it to the 2' x 4' curb.
- Securely nail the 2' x 4' curb to a 9" long vertical spacer to be located between the curb and the inlet face (max. 4" apart).
- Place the assembly against the inlet throat and nail (minimum 2" lengths of 2" x 4" to the top of the curb on both sides of the inlet. Place clean 3/4" x 1 1/2" stone over the wire mesh and geotextile in such a manner to prevent water from entering the inlet under or around the geotextile.
- The type of protection must be inspected frequently and the filter cloth and stone replaced when clogged with sediment.
- Ensure that storm flow does not bypass the inlet by installing a temporary earth or asphalt dike to direct the flow to the inlet.

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE PAGE E-16-5B MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION



BENCHMARK DATA

HOWARD COUNTY GEODETIC CONTROL:
 STATION NO.: 37A DESCRIPTION: 3/4" IRON ROD W/ A 4" STAMPED ALUMINUM CAP.
 N 55315.158
 E 1379982.120
 ELEV.: 155.762

DATE: 12/3/98

APPROVED: *Cheryl Simon* 12/3/98
 U.S.D.A. NATIONAL RESOURCES CONSERVATION SERVICE / DATE

Table 27 - Geotextile Fabrics

Class	Apparent Opening Size MM. MAX.	Grab Tensile Strength LB. MIN.	Burst Strength PSI. MIN.
A	0.30**	250	500
B	0.60	200	320
C	0.30	200	320
D	0.60	90	145
E	0.30	90	145
(SILT FENCE)	0.40-0.80*	90	190

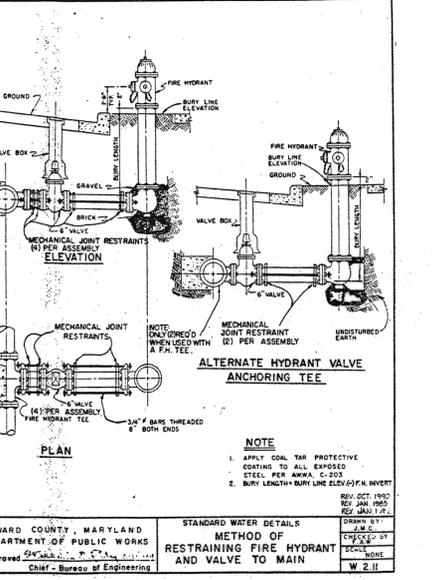
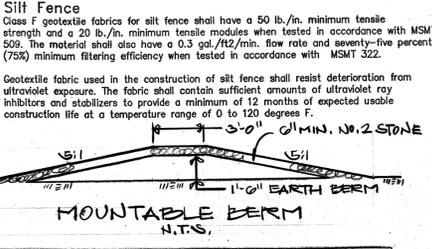
* U.S. Std. Sieve CW-02215 ** 5 mm max. for Super Silt Fence

The property shall be determined in accordance with the following procedures:

- Apparent opening size MSMT 323
- Grab tensile strength ASTM D 1682; 4x8 specimen, 1x2" clamps, 12" min. strain rate in both principal directions of geotextile fabric.
- Burst strength ASTM D 3786

The fabric shall be inert to commonly encountered chemicals and hydrocarbons, and will be rot and mildew resistant. It shall be manufactured from fibers consisting of long chain synthetic polymers, and composed of a minimum of 85% by weight of polyolefins, polyesters, or polyamides. The geotextile fabric shall resist deterioration from ultraviolet exposure.

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



PERMANENT SEEDING NOTES

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

Soil Amendments: Use one of the following schedules:

- Preferred - Apply 2 tons per acre dolomitic limestone (92 lbs./1000 square ft.) and 600 lbs. per acre 10-10-10 fertilizer (14 lbs./1000 sq. ft.) before seeding. Harrow or disc into upper three inches of soil. At time of seeding, apply 400 lbs. per acre 30-0-0 ureaform fertilizer (9 lbs./1000 sq. ft.).
- Acceptable - Apply 2 tons per acre dolomitic limestone (92 lbs./1000 square ft.) and 1000 lbs. per acre 10-10-10 fertilizer (23 lbs./1000 sq. ft.) before seeding. Harrow or disc into upper three inches of soil.

Seeding - For the periods March 1 thru April 30, and August 1 thru October 15, seed with 60 lbs. per acre (1.4 lbs./1000 sq. ft.) of Kentucky 31 Tall Fescue. For the period May 1 thru July 31, seed with 60 lbs. Kentucky 31 Tall Fescue per acre and 2 lbs. per acre (.05 lbs./1000 sq. ft.) of weeping lovegrass. During the period of October 16 thru February 28, protect site by: Option (1) 2 tons per acre of well anchored straw mulch and seed as soon as possible in the spring. Option (2) Use sod. Option (3) Seed with 60 lbs./acre Kentucky 31 Tall Fescue and mulch with 2 tons/acre well anchored straw.

Mulching - Apply 11/2 to 2 tons per acre (70 to 90 lbs./1000 sq. ft.) of unrotted small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gallons per acre (5 gal./1000 sq. ft.) of emulsified asphalt on flat areas. On slopes 8 feet or higher, use 348 gallons per acre (8 gal./1000 sq. ft.) for anchoring.

Maintenance - Inspect all seeded areas and make needed repairs, replacements and reseeding.

TEMPORARY SEEDING NOTES

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

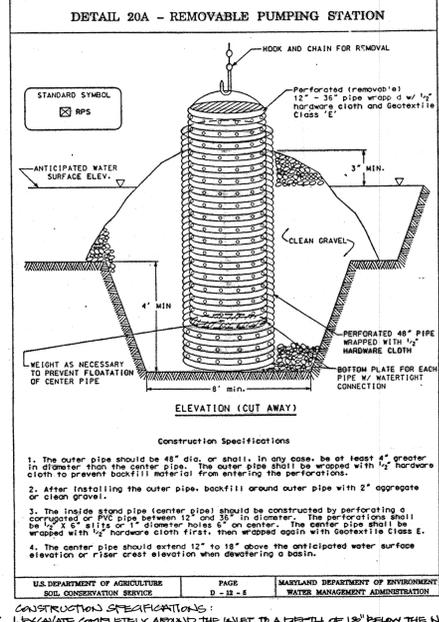
Soil Amendments: Apply 600 lbs. per acre 10-10-10 fertilizer (14 lbs./1000 sq. ft.).

Seeding - For the periods March 1 thru April 30, and August 15 thru November 15, seed with 21/2 bu. per acre of annual ryegrass (3.2 lbs./1000 sq. ft.). For the period May 1 thru August 14, seed with 3 lbs. per acre of weeping lovegrass (0.7 lbs./1000 sq. ft.). For the period November 16 thru February 28, protect site by applying 2 tons per acre of well anchored straw mulch and seed as soon as possible in the spring, or use sod.

Mulching - Apply 11/2 to 2 tons per acre (70 to 90 lbs./1000 sq. ft.) of unrotted small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gallons per acre (5 gal./1000 sq. ft.) of emulsified asphalt on flat areas. On slopes 8 feet or higher, use 348 gallons per acre (8 gal./1000 sq. ft.) for anchoring.

STANDARD SEDIMENT CONTROL NOTES

- A minimum of 48 hours notice must be given to the Howard County Department of Inspections, Licenses and Permits, Sediment Control Division prior to the start of any construction. (S13-1850).
- All vegetative and structural practices are to be installed according to the provisions of this plan and are to be in conformance with the most current "Maryland Standards and Specifications for Soil Erosion and Sediment Control", and revisions thereto.
- Following initial soil disturbance or redistribution, permanent or temporary stabilization shall be completed within: a) 7 calendar days for all perimeter sediment control structures, dikes, perimeter slopes and all slopes greater than 3:1, b) 14 days as to all other disturbed or graded areas on the project site.
- All sediment traps/basins shown must be fenced and warning signs posted around their perimeter in accordance with Vol. 1, Chapter 12, of the Howard County Design Manual, Storm Drainage.
- All disturbed areas must be stabilized within the time period specified above in accordance with the 1994 Maryland Standards and Specifications for Soil Erosion and Sediment Control for vegetative stabilization (Section 20.0). Temporary stabilization with mulch alone can only be done when recommended seeding dates do not allow for proper germination and establishment of grasses.
- All sediment control structures are to remain in place and are to be maintained in operative condition until permission for their removal has been obtained from the Howard County Sediment Control Inspector.
- Site Analysis:
 - Total Area of Site: 10.74 Acres
 - Area Disturbed: 2.46 Acres
 - Area to be roofed or paved: 1.55 Acres
 - Area to be vegetatively stabilized: 0.91 Acres
 - Total Cut: 2000 Cu. Yds. ±
 - Total Fill: 2000 Cu. Yds. ±
 - Offsite waste/borrow area location: N/A.
- Any sediment control practice which is disturbed by grading activity for placement of utilities must be repaired on the same day of disturbance.
- Additional sediment control must be provided, if deemed necessary by the Howard County Sediment Control Inspector.
- On all sites with disturbed areas in excess of 2 acres, approval of the inspection agency shall be requested upon completion of installation of perimeter erosion and sediment controls, but before proceeding with any other earth disturbance or grading. Other building or grading inspection approvals may not be authorized until final approval by the inspection agency is made.
- Trenches for the construction of utilities is limited to three pipe lengths or that which can be backfilled and stabilized within one working day, whichever is shorter.



DETAIL 20A - REMOVABLE PUMPING STATION

Construction Specifications

- The outer pipe should be 48" dia. or shall, in any case, be at least 4" greater in diameter than the center pipe. The outer pipe shall be wrapped with 1/2" hardware cloth to prevent boresight material from entering the perforations.
- After installing the outer pipe, backfill around outer pipe with 2" aggregate or clean gravel.
- The inside slope pipe (center pipe) should be constructed by perforating a composite of PVC pipes between 12" and 36" in diameter. The perforations shall be 1/2" x 3/4" in size. The center pipe shall be wrapped with 1/2" hardware cloth first, then wrapped again with geotextile Class E.
- The center pipe should extend 12" to 18" above the anticipated water surface elevation or riser crest elevation when dewatering a basin.

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE PAGE D-18-6 MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

ADDRESS CHART

LOT NUMBER	STREET ADDRESS
SUBJECT SITE	6740 DORSEY ROAD

PERMIT INFORMATION CHART

SUBDIVISION NAME	SECTION/AREA	LOT/PARCEL #
DORSEY INDUSTRIES	N/A	373 & 413
PLAT NO. OR L/F BLOCK # ZONE	TAX/ZONE MAP	ELECT. DIST.
1314/005 23 & 5 M-1	37 & 43	31
WATER CODE	SEWER CODE	CENSUS TRACT
B-01	2320000	6012

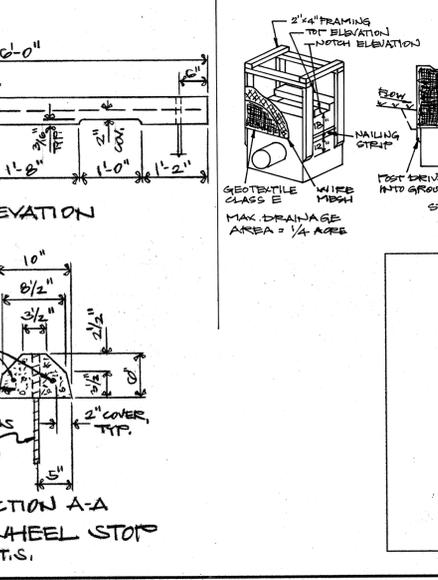
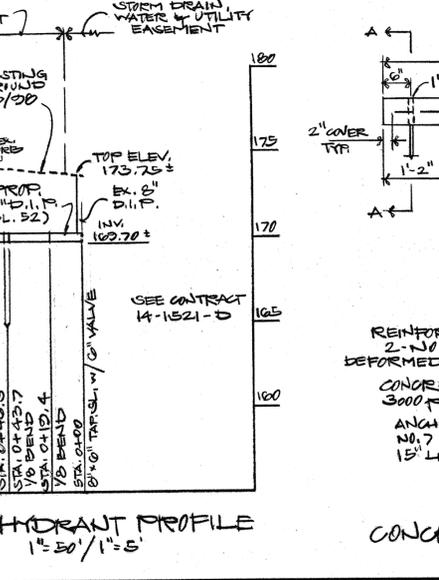
APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS
 HOWARD COUNTY HEALTH DEPARTMENT

John M. Boyd 12/8/98
 COUNTY HEALTH OFFICER / DATE

APPROVED: DEPARTMENT OF PLANNING & ZONING
 CHIEF, DEVELOPMENT ENGINEERING DIVISION
Richard Blood 12/10/98
 CHIEF, DIVISION OF LAND DEVELOPMENT / DATE

James S. Banta 12/11/98
 DIRECTOR / DATE

OWNER/DEVELOPER:
 SAVAL REALTY COMPANY
 P.O. BOX 24257
 6740 DORSEY ROAD
 DORSEY, MARYLAND 21227
 (410) 399-9100



SEDIMENT CONTROL PLAN NOTES & DETAILS
 SDP - 00 - 32
 "DORSEY INDUSTRIES"
 WAREHOUSE EXPANSION
 SAVAL REALTY COMPANY
 6740 DORSEY ROAD
 PREVIOUS SDP 86-121 & 88-35
 ELECTION DISTRICT: FIRST HOWARD COUNTY, MARYLAND
 CENSUS TRACT NO.: 6012 TAX MAP NO.: 37 & 43 PARCEL NO.: 413 & 373
 WATER CODE: B-01 SEWER CODE: 2320000
 SCALE: AS SHOWN DATE: SEPT. 23, 1998

ENGINEER'S CERTIFICATION

I CERTIFY THAT THIS PLAN FOR POND CONSTRUCTION, EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS, THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION OF THIS 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 & PROVIDE THE HOWARD COUNTY SOIL CONSERVATION DISTRICT WITH AN "AS-BUILT" PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION. I DO NOT AUTHORIZE PERIODIC ON-SITE INSPECTIONS BY THE HOWARD COUNTY SOIL CONSERVATION DISTRICT.

9/19/98
 SIGNATURE OF ENGINEER: *Richard E. Matz*
 PRINT NAME BELOW SIGNATURE: RICHARD E. MATZ, DATE

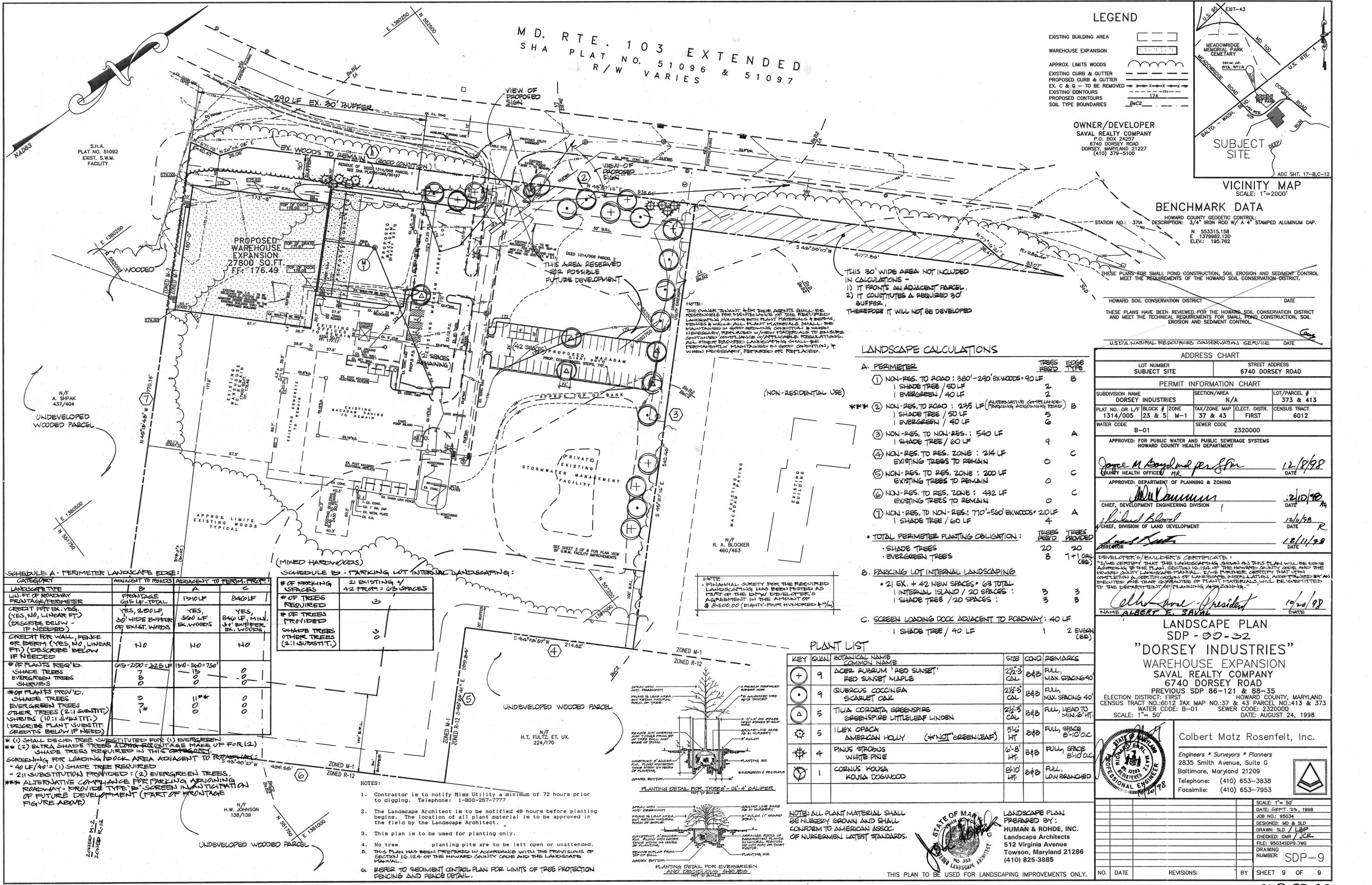
OWNER/DEVELOPER'S CERTIFICATION

I CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THESE PLANS, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION OF THIS 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 & PROVIDE THE HOWARD COUNTY SOIL CONSERVATION DISTRICT WITH AN "AS-BUILT" PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION. I DO NOT AUTHORIZE PERIODIC ON-SITE INSPECTIONS BY THE HOWARD COUNTY SOIL CONSERVATION DISTRICT.

9/18/98
 SIGNATURE OF DEVELOPER/TITLE: *Colbert Matz Rosenfelt*
 PRINT NAME BELOW SIGNATURE: COLBERT MATZ ROSENFELT, DATE

SCALE: AS SHOWN
 DATE: SEPT. 23, 1998
 JOB NO.: 95034
 DESIGNED: MD & SLD
 DRAWN: SLD
 CHECKED: CMR
 FILE: 85034SDP8.DWG
 DRAWING NUMBER: SDP-8

NO. DATE REVISIONS: BY SHEET 8 OF 9



LEGEND

- EXISTING BUILDING AREA
- WAREHOUSE EXPANSION
- APPROX. LIMITS WOODS
- EXISTING CURB & GUTTER
- PROPOSED CURB & GUTTER
- EX. C & G - TO BE REMOVED
- EXISTING CONTOURS
- PROPOSED CONTOURS
- SOIL TYPE BOUNDARIES

OWNER/DEVELOPER
SAVAL REALTY COMPANY
P.O. BOX 24257
6740 DORSEY ROAD
DORSEY, MARYLAND 21227
(410) 378-5100

VICINITY MAP
SCALE: 1"=2000'

BENCHMARK DATA

HOWARD COUNTY GEODETIC CONTROL:
DESCRIPTION: 3/4" IRON ROD W/ A 4" STAMPED ALUMINUM CAP.
STATION NO.: 371A
N 653315.158
E 1379982.120
ELEV.: 195.762

THIS 30' WIDE AREA NOT INCLUDED IN CALCULATIONS -
1) IT FRONTS AN ADJACENT PARCEL.
2) IT CONSTITUTES A REQUIRED 30' BUFFER.
THEREFORE IT WILL NOT BE DEVELOPED.

LANDSCAPE CALCULATIONS

A. PERIMETER

DESCRIPTION	TREES REQ'D	EDGE TYPE
1) NON-RES. TO ROAD: 380'-290' EX. WOODS - 90 LF	2	B
1 SHADE TREE / 50 LF		
1 EVERGREEN / 40 LF		
*** 2) NON-RES. TO ROAD: 235 LF (ALTERNATIVE COMPLIANCE PARKING ADJACENT ROAD)	2	B
1 SHADE TREE / 50 LF		
1 EVERGREEN / 40 LF		
3) NON-RES. TO NON-RES.: 540 LF	5	A
1 SHADE TREE / 60 LF		
4) NON-RES. TO RES. ZONE: 214 LF	9	C
EXISTING TREES TO REMAIN	0	
5) NON-RES. TO RES. ZONE: 200 LF	0	C
EXISTING TREES TO REMAIN	0	
6) NON-RES. TO RES. ZONE: 492 LF	0	C
EXISTING TREES TO REMAIN	0	
7) NON-RES. TO NON-RES.: 770'-560' EX. WOODS - 210 LF	4	A
1 SHADE TREE / 60 LF		
TOTAL PERIMETER PLANTING OBLIGATION:	TREES PROVIDED	TREES REQ'D
SHADE TREES	20	20
EVERGREEN TREES	8	8
		7+1 ORN (EG)

B. PARKING LOT INTERNAL LANDSCAPING

- 21 EX. + 42 NEW SPACES = 63 TOTAL
- INTERNAL ISLAND / 20 SPACES: 3 3
- 1 SHADE TREE / 20 SPACES: 3 3

C. SCREEN LOADING DOCK ADJACENT TO ROADWAY: 40 LF

- 1 SHADE TREE / 40 LF
- 1 2 EVERG (EG)

ADDRESS CHART

LOT NUMBER	STREET ADDRESS
SUBJECT SITE	6740 DORSEY ROAD

PERMIT INFORMATION CHART

SUBDIVISION NAME	SECTION/AREA	LOT/PARCEL #
DORSEY INDUSTRIES	N/A	373 & 413

PLAT NO. OR L/F	BLOCK #	ZONE	TAX/ZONE MAP	ELECT. DISTR.	CENSUS TRACT
1314/005	23 & 5	M-1	37 & 43	FIRST	6012

WATER CODE	SEWER CODE
B-01	2320000

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS
HOWARD COUNTY HEALTH DEPARTMENT

James M. Boydland, President
COUNTY HEALTH OFFICER
DATE: 12/18/98

APPROVED: DEPARTMENT OF PLANNING & ZONING

Richard Blum, Chief, Development Engineering Division
DATE: 12/10/98

Richard Blum, Chief, Division of Land Development
DATE: 12/11/98

Albert E. Saval, Director
DATE: 12/11/98

DEVELOPER'S/BUILDER'S CERTIFICATE:
I, ALBERT E. SAVAL, PRESIDENT OF SAVAL REALTY COMPANY, AS THE DEVELOPER OF THE LANDSCAPING PLAN FOR THE WAREHOUSE EXPANSION PROJECT AT 6740 DORSEY ROAD, DORSEY, MARYLAND, HEREBY CERTIFY THAT THE LANDSCAPING PLAN IS IN ACCORDANCE WITH THE PROVISIONS OF SECTION 16-12.4 OF THE HOWARD COUNTY CODE AND THE HOWARD COUNTY LANDSCAPE MANUAL. I WILL FURTHER CERTIFY THAT UPON COMPLETION AND CERTIFICATION OF LANDSCAPE INSTALLATION, ACCORDANCE WITH THE YEAR GUARANTEE OF PLANT MATERIALS, WILL BE SUBMITTED TO THE DEPARTMENT OF PLANNING AND ZONING.

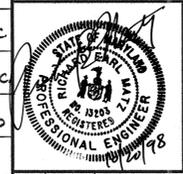
Albert E. Saval, President
DATE: 12/10/98

LANDSCAPE PLAN
SDP - 00-32

"DORSEY INDUSTRIES"

WAREHOUSE EXPANSION
SAVAL REALTY COMPANY
6740 DORSEY ROAD

PREVIOUS SDP 86-121 & 88-35
ELECTION DISTRICT: FIRST
CENSUS TRACT NO.: 6012
TAX MAP NO.: 37 & 43
WATER CODE: B-01
SEWER CODE: 2320000
DATE: AUGUST 24, 1998



Colbert Matz Rosenfelt, Inc.

Engineers * Surveyors * Planners
2835 Smith Avenue, Suite G
Baltimore, Maryland 21209
Telephone: (410) 653-3838
Facsimile: (410) 653-7953

PLANT LIST

KEY	QUAN.	BOTANICAL NAME COMMON NAME	SIZE	COND.	REMARKS
+	9	ACER RUBRUM 'RED SUNSET' RED SUNSET MAPLE	2 1/2'-3' CAL	B&B	FULL, MAX. SPACING 40'
o	9	QUERCUS COCCINEA SCARLET OAK	2 1/2'-3' CAL	B&B	FULL, MAX. SPACING 40'
Δ	5	TILIA CORDATA GREENSPIRE LITTLELEAF LINDEN	2 1/2'-3' CAL	B&B	FULL, HEAD TO MIN. 6' HT.
☼	5	ILEX OPACA AMERICAN HOLLY (NOT GREENLEAF)	5 1/2' HT	B&B	FULL SPACE 8'-10' OC.
☼	4	PINUS STROBOS WHITE PINE	6'-8' HT	B&B	FULL SPACE 8'-10' OC.
o	1	CORNUS KOUSA KOUSA DOGWOOD	8'-10' HT	B&B	FULL, LOW BRANCHED

NOTE: ALL PLANT MATERIAL SHALL BE NURSERY GROWN AND SHALL CONFORM TO AMERICAN ASSOC. OF NURSERMEN LATEST STANDARDS.



LANDSCAPE PLAN
PREPARED BY:
HUMAN & ROHDE, INC.
Landscape Architects
512 Virginia Avenue
Towson, Maryland 21286
(410) 825-3885

THIS PLAN TO BE USED FOR LANDSCAPING IMPROVEMENTS ONLY.

SCHEDULE A - PERIMETER LANDSCAPE EDGE:

CATEGORY	ADJACENT TO ROADS	ADJACENT TO PERIM. FENCE
LANDSCAPE TYPE	B	A
LIQ. FT. OF ROADWAY FRONTAGE/PERIMETER	FRONTAGE 615 LF - TOTAL	1210 LF
CREDIT FOR EX. VEG. (YES, NO), LINEAR FT. (DESCRIBE BELOW IF NEEDED)	YES, 200 LF 30' WIDE BUFFER OR EXIST. WOODS	YES, 560 LF EX. WOODS
CREDIT FOR WALL FENCE OR BERM (YES, NO, LINEAR FT.) (DESCRIBE BELOW IF NEEDED)	NO	NO
# OF PLANTS REQ'D	615-200 = 415 LF	1210-560 = 650 LF
SHADE TREES	7	10
EVERGREEN TREES	0	0
SHRUBS	0	0
# OF PLANTS PROVIDED	7	11**
SHADE TREES	0	0
EVERGREEN TREES	0	0
OTHER TREES (2:1 SUBSTIT.)	7*	0
SHRUBS (10:1 SUBSTIT.)	0	0

SCHEDULE B - PARKING LOT INTERNAL LANDSCAPING:

# OF PARKING SPACES	# OF TREES REQUIRED	# OF TREES PROVIDED
21 EXISTING / 42 PROP. = 63 SPACES	3	6
		0

* (1) SMALL DECID. TREE SUBSTITUTED FOR (1) EVERGREEN
** (2) EXTRA SHADE TREES ALONG FRONTAGE MAKE UP FOR (2) SHADE TREES REQUIRED IN THIS CATEGORY.
SCREENING FOR LOADING DOCK AREA ADJACENT TO ROADWAY:
- 40 LF/40' = (1) SHADE TREE REQUIRED
- 2:1 SUBSTITUTION PROVIDED: (2) EVERGREEN TREES.
*** ALTERNATIVE COMPLIANCE FOR PARKING ADJOINING ROADWAY - PROVIDE TYPE 'B' SCREEN IN ANTICIPATION OF FUTURE DEVELOPMENT (PART OF FRONTAGE FIGURE ABOVE)

NOTES:

- Contractor is to notify Miss Utility a minimum of 72 hours prior to digging. Telephone: 1-800-257-7777
- The Landscape Architect is to be notified 48 hours before planting begins. The location of all plant material is to be approved in the field by the Landscape Architect.
- This plan is to be used for planting only.
- No tree planting pits are to be left open or unattended.
- THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE PROVISIONS OF SECTION 16-12.4 OF THE HOWARD COUNTY CODE AND THE LANDSCAPE MANUAL.
- REFER TO SEDIMENT CONTROL PLAN FOR LIMITS OF TREE PROTECTION FENCING AND FENCE DETAIL.

