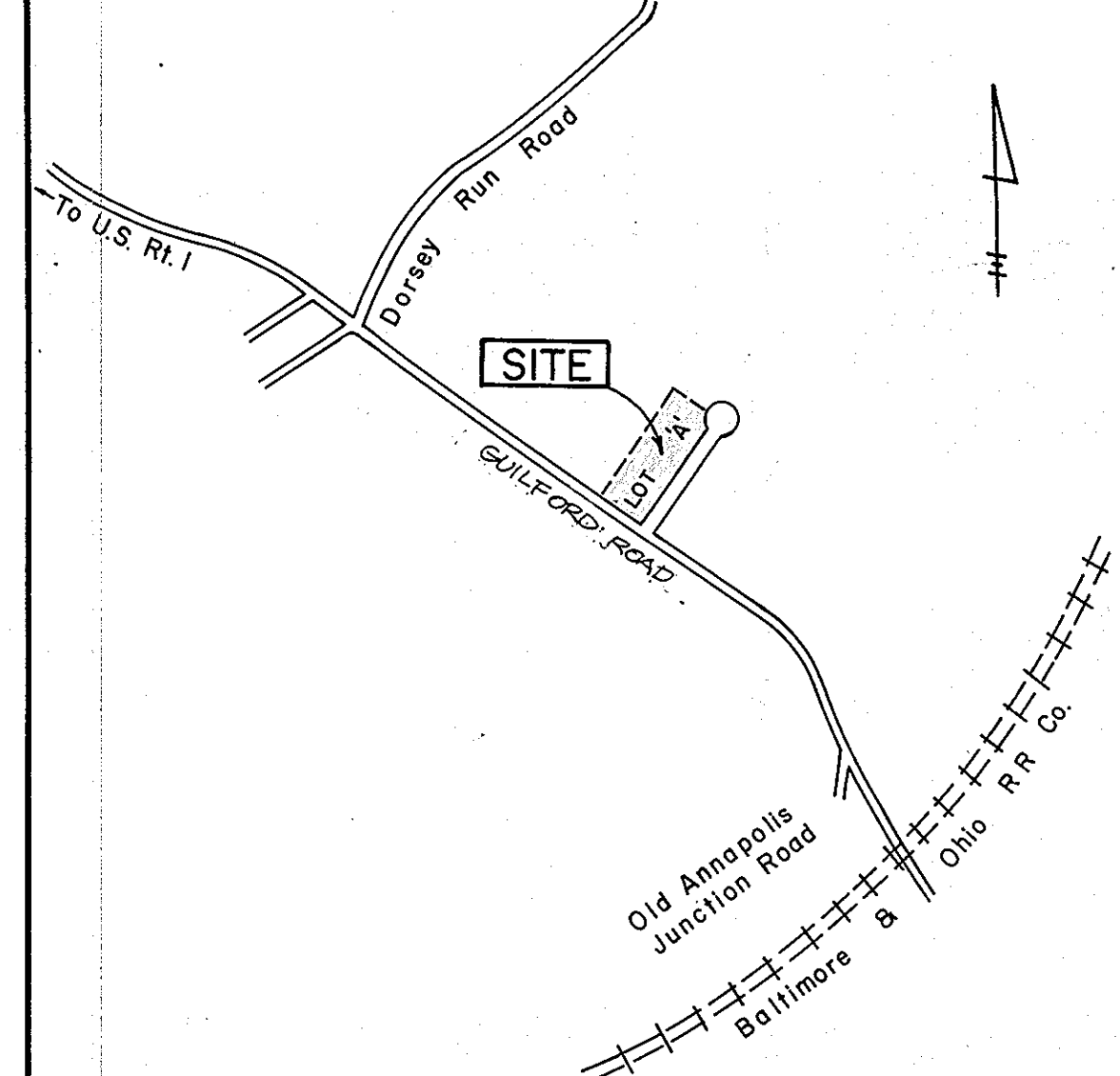
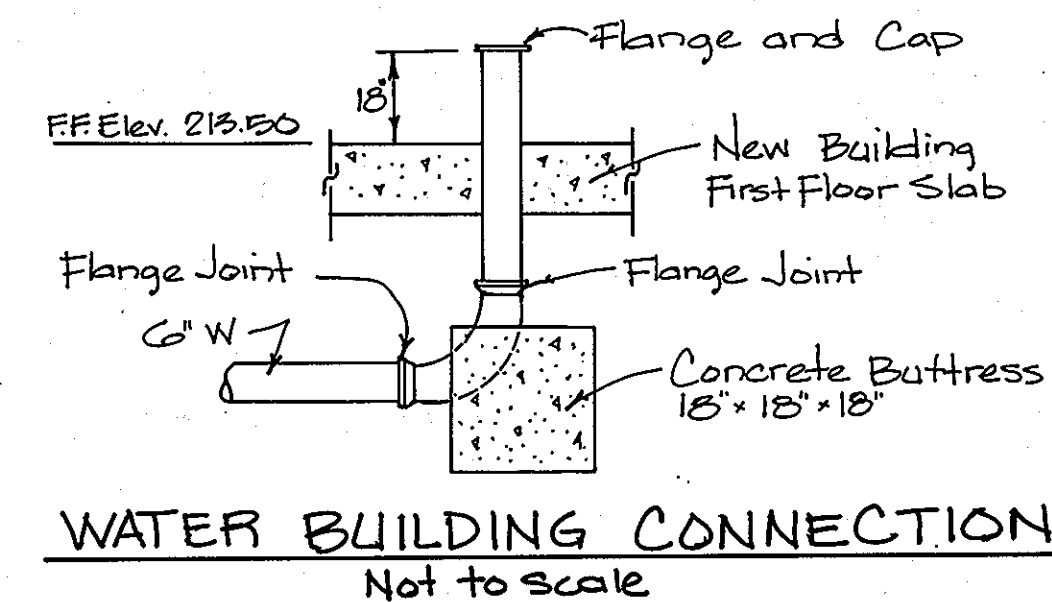


GENERAL NOTES

- All work shown on these plans shall be constructed in accordance with the latest revision of Volume IV of the Howard County Design Manual, "Standard Specifications and Details for Construction."
- All new paving on-site shall be Howard County Std. # P-2.
- All new paving in the Public Right-of-Way shall be Howard County Std # P-3.
- All new curb & gutter shall be Howard County Std. No R 3.01 7" combination curb & gutter from Pump House Road to the ends of all-curb return radii.
- All on-site curb shall be Howard County Std. No R 3.03 bituminous curb.
- Public water and private sewage will be utilized.
- The location of existing utilities shown hereon are based on the latest available information. The contractor shall however, determine the exact location before making connections.
- The contractor or developer shall contact the Construction Inspection Division, 24 hours in advance of commencement of work at 792-2630.
- THE EXISTING BUILDING IS SPRINKLERED. THE ADDITION WILL BE SPRINKLERED BY AN EXTENSION OF THE EXISTING SYSTEM.

- PROPOSED L.O.D IS WITHIN PREVIOUS LIMIT OF DISTURBANCE THEREFORE SITE IS EXEMPT FROM FOREST CONSERVATION PER SECTION 16.1202 (EX.1)(1) OF THE HOWARD COUNTY CODE.
- THE OLD SEPTIC SYSTEM INDICATED ON THIS PLAN WAS PREVIOUSLY ABANDONED AND BUILDING CONNECTED TO PUBLIC SEWER.
- HANDICAP ACCESSIBILITY TO WAREHOUSE ADDITION IS INTERNAL FROM EXISTING BUILDING.
- RE-STRIPE EXISTING PARKING TO ST SPACES.
- Construct Std. 7" combination curb & gutter (Std. Detail R-3.01) from existing curb & gutter of road to PC of entrances (2).
- Construct standard bituminous curb for all parking areas (Std. Detail R-3.03).
- THE APPLICATION FOR THE BUILDING ADDITION MUST BE APPLIED FOR WITHIN THE APPLICATION FOR INSPECTIONS, LICENSING, AND PERMIT WITHIN ONE YEAR OF THE DEPARTMENT OF INSPECTIONS, LICENSING, AND PERMIT DATE OF THIS REDLINE REVISION.
- DEVELOPMENT ENGINEERING DIVISION'S APPROVAL DATE OF THIS REDLINE REVISION.
- THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH SECTION 16.124 OF THE HOWARD COUNTY CODE AND THE LANDSCAPE MANUAL WITH 3 SHADE TREES PROVIDED WITH LANDSCAPE SURETY IN THE AMOUNT OF \$9000 PROVIDED AT GRADING PERMIT.

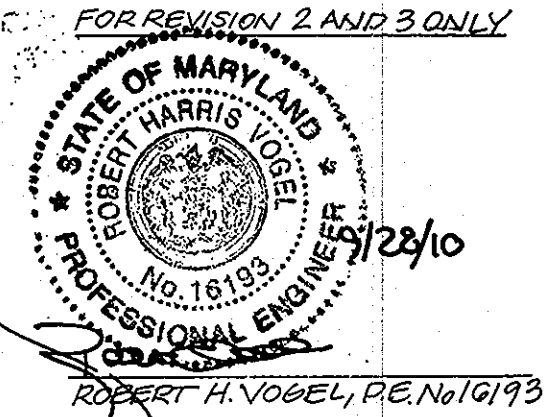


VICINITY MAP
1" = 800'



SITE ANALYSIS

Area of property: 2.80 acres ±
 Proposed use: Light Manufacturing & Warehousing
 Zoning: M-2
 Building coverage: 30987 s.f. (25.41%)
 Area of parking lots: 44,029 s.f.
 Area and percentage of landscaped islands within the parking lots: 3501 s.f. (7.95%)
 Open space to remain: 46953 s.f. (38.49%)
 Number of employees: 70
 Parking spaces required: 30987/500 = 62
 Parking spaces provided: 79
 Tax Map No.: 48
 All roads are private.



APPROVED: FOR PUBLIC WATER AND PRIVATE SEWERAGE SYSTEMS,
 HOWARD COUNTY HEALTH DEPARTMENT
 Director: *Joyce Boyles* 10-16-86
 DATE: 10-16-86

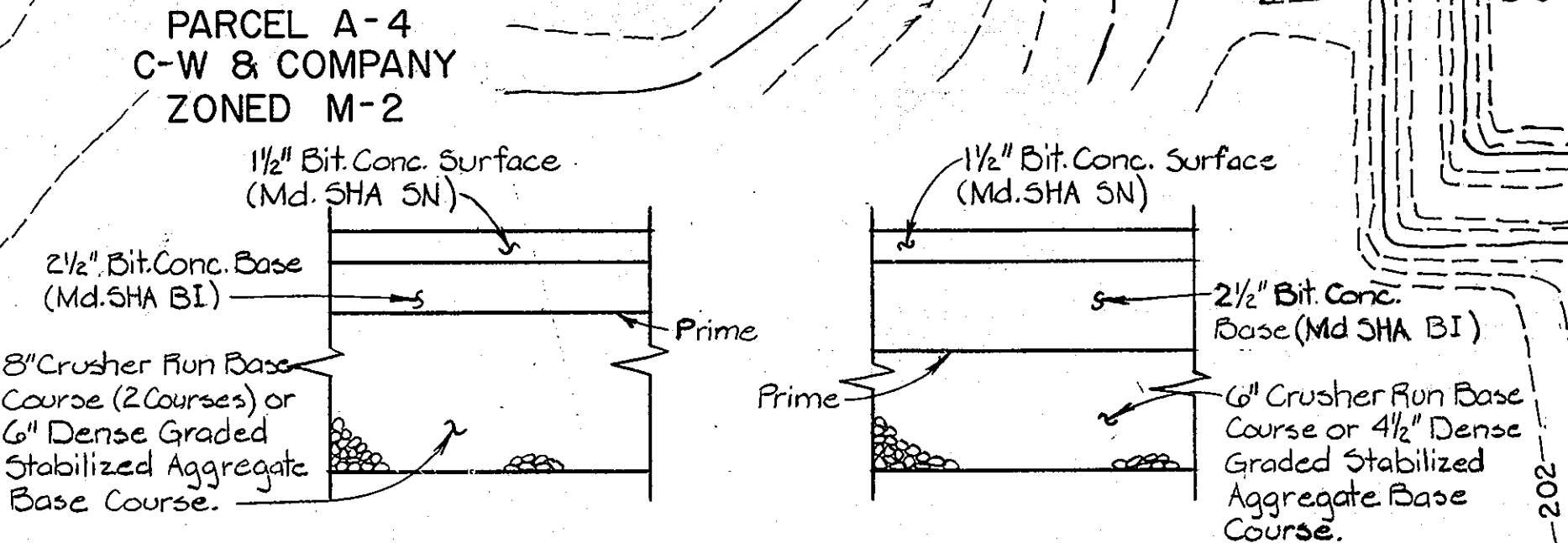
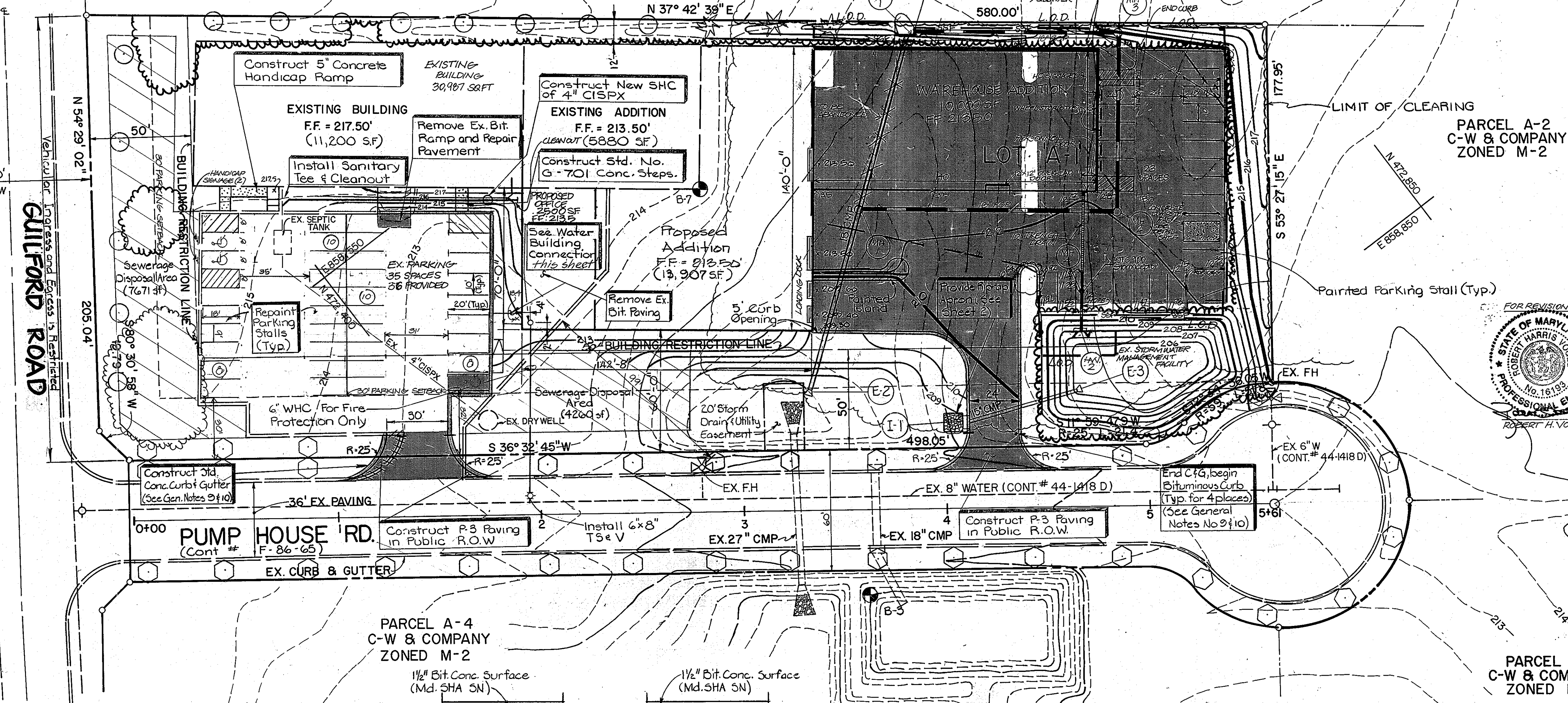
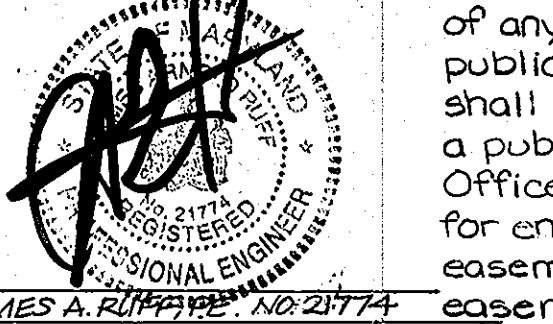
APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING
 Director: *James A. Ruppner* 10-16-86
 DATE: 10-16-86

APPROVED: FOR PUBLIC WATER AND STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 Director: *James C. Nemy* 10-15-86
 DATE: 10-15-86

CHIEF BUREAU OF ENGINEERING
James A. Ruppner 10/16/86

This area designates a private sewage easement of 11,931 Sq. ft. as required by the Maryland State Department of Health and Mental Hygiene for individual sewage disposal. Improvements of any nature in this area are restricted until public sewage is available. These easements shall become null and void upon connection to a public sewage system. The County Health Officer shall have the authority to grant variances for encroachments into the private sewage easement. Recordation of a modified sewage easement shall not be necessary.

APPROVED
 DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION
 HOWARD COUNTY, MARYLAND
 DATE: 9-19-86
James A. Ruppner



PARKING TABULATION

EXISTING BUILDING WAREHOUSE 20,000 SF OFFICE 10,987 SF TOTAL: 30,987 SF	PROPOSED BUILDING WAREHOUSE 13,487 SF OFFICE 15,420 SF TOTAL: 48,907 SF
PARKING REQUIRED WAREHOUSE 14 OFFICE 45 TOTAL: 59 (3 HANDICAP)	3 REALIGN TRENCH DRAIN 9/26/10
TOTAL PARKING PROVIDED: 59 SPACES (3 HANDICAP)	

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS.
James M. Helms 10/16/86
 U.S. SOIL CONSERVATION SERVICE DATE

APPROVED: FOR SOIL EROSION AND SEDIMENT CONTROL.
Stephan L. Fisher 10/19/86
 HOWARD SOIL CONSERVATION DISTRICT DATE

OWNER / DEVELOPER
P-2
 C-W & Company
 10901 Pump House Rd.
 Annapolis Junction, MD 20701
 (410) 860-0850

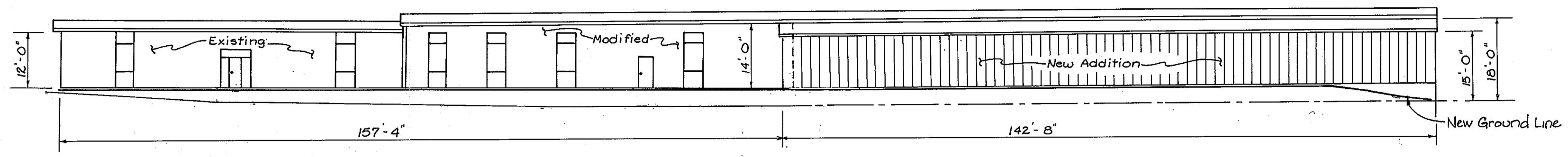
P-3
 TYPICAL PAVEMENT SECTION
 Not to Scale

PURDUM & JESCHKE
 CONSULTING ENGINEERS
 LAND SURVEYORS
 1029 North Calvert Street
 Baltimore, Maryland 21202
 301/837-0194

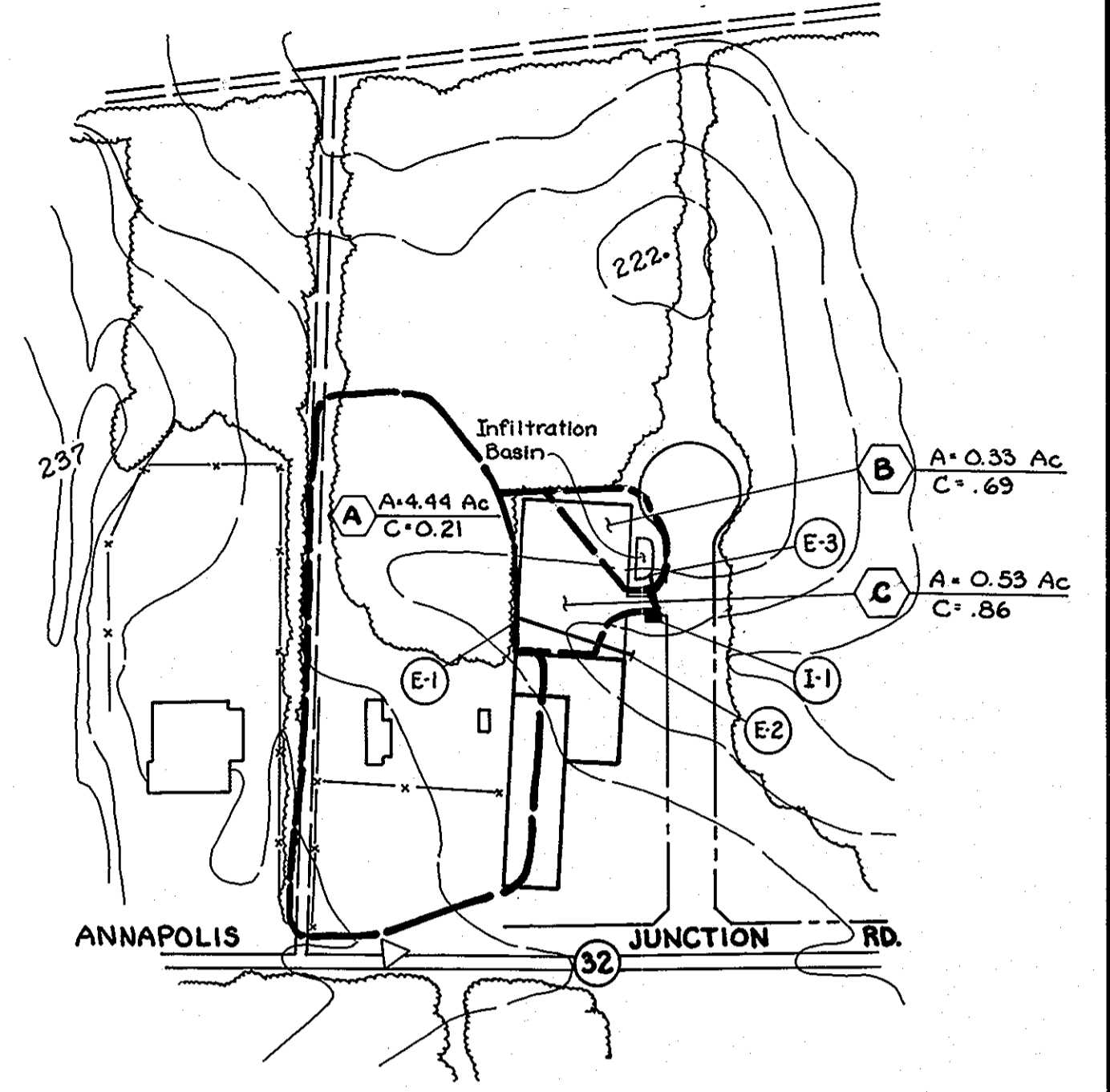
DEVELOPER'S CERTIFICATION
 I CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN AND ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT DEPARTMENT OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF ANY SEDIMENT EROSION BEFORE BEGINNING THE PROJECT.
Charles A. Cummins II 8/21/86
 CHARLES A. CUMMINS II

ENGINEER'S CERTIFICATION
 I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.
Richard H. Berich PE
 RICHARD H. BERICH PE

SITE DEVELOPMENT PLAN
C-W & COMPANY
 LOT 'A-1'
 6TH ELECTION DISTRICT HOWARD COUNTY, MD.
 TAX MAP NO. 48 SCALE: 1" = 30'
 DATE: 9-25-86 BUILDING ADDITION TO SDP-77-74
 W.O. No. 6342-00
 SHEET 1 OF 5
 DES: L.B.B.
 DRW'N: C.N.W.
 CHK: R.H.B.



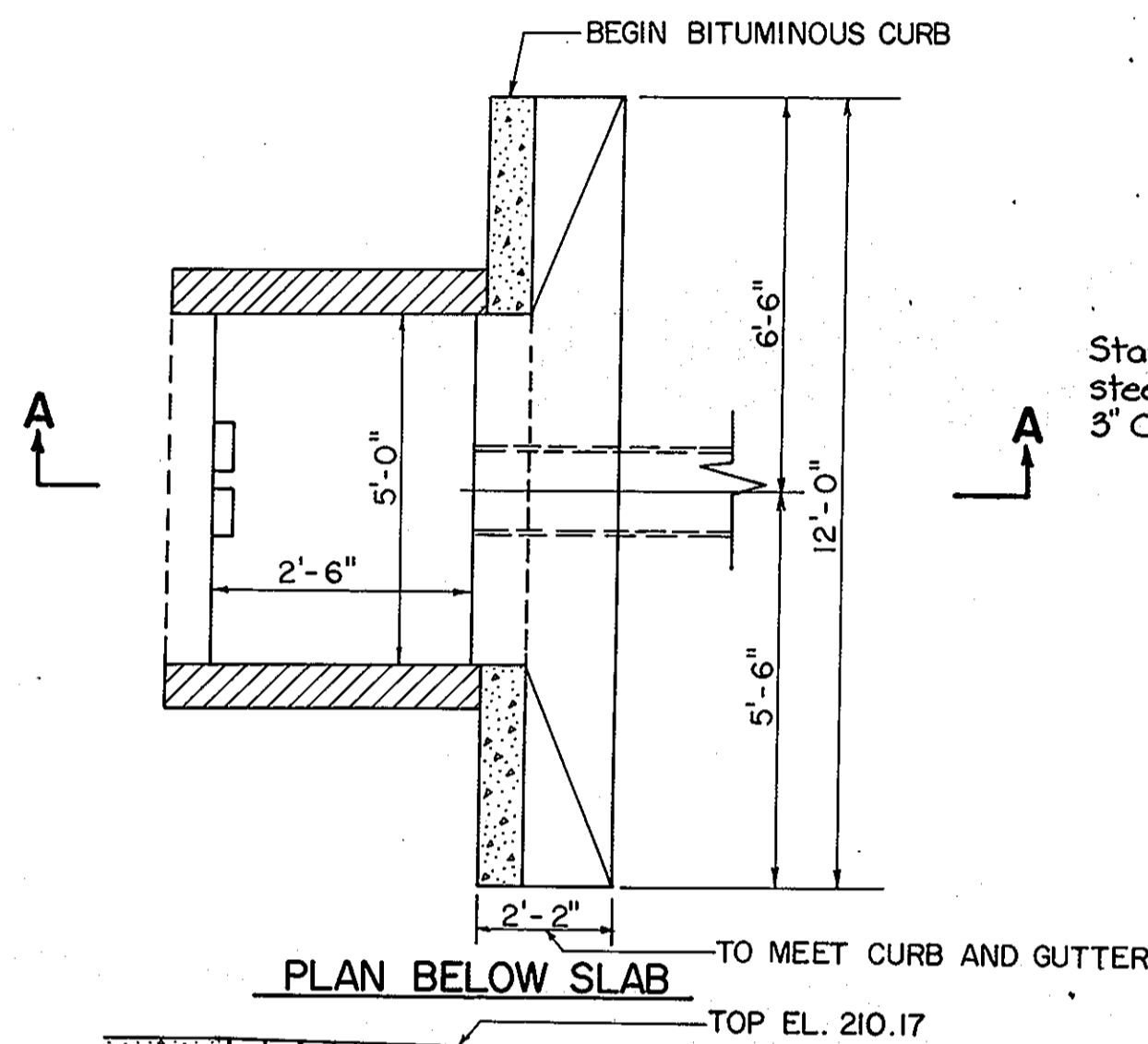
SOUTHEAST ELEVATION
SCALE: 1/16" = 1'-0"



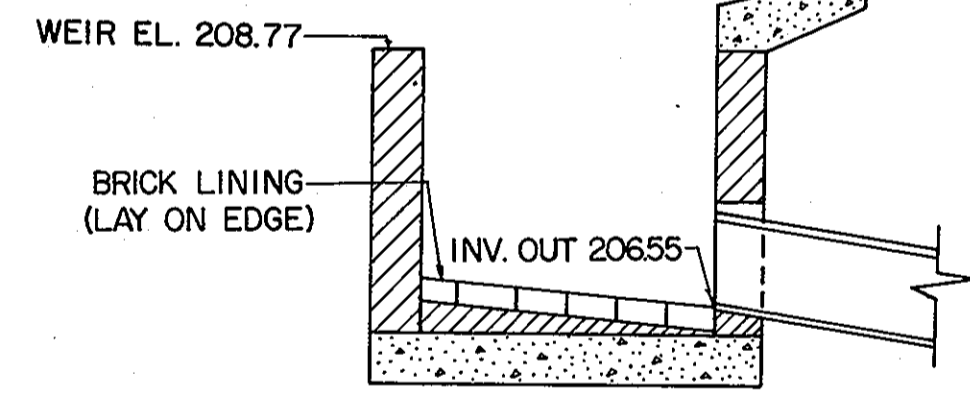
STORM DRAINAGE AREA MAP
Scale: 1" = 200'

STRUCTURE SCHEDULE					
NO.	TYPE	INV. IN	INV. OUT	TOP EL.	STD. NO.
E-1	C ENDWALL	209.80	---	212.05	SD-5.21
E-2	METAL END SECT.	---	206.15	208.50	SD-5.61
I-1	MODIFIED A-5	---	206.55	210.17	SD-4.01
E-3	METAL END SECT.	---	206.00	207.25	SD-5.61

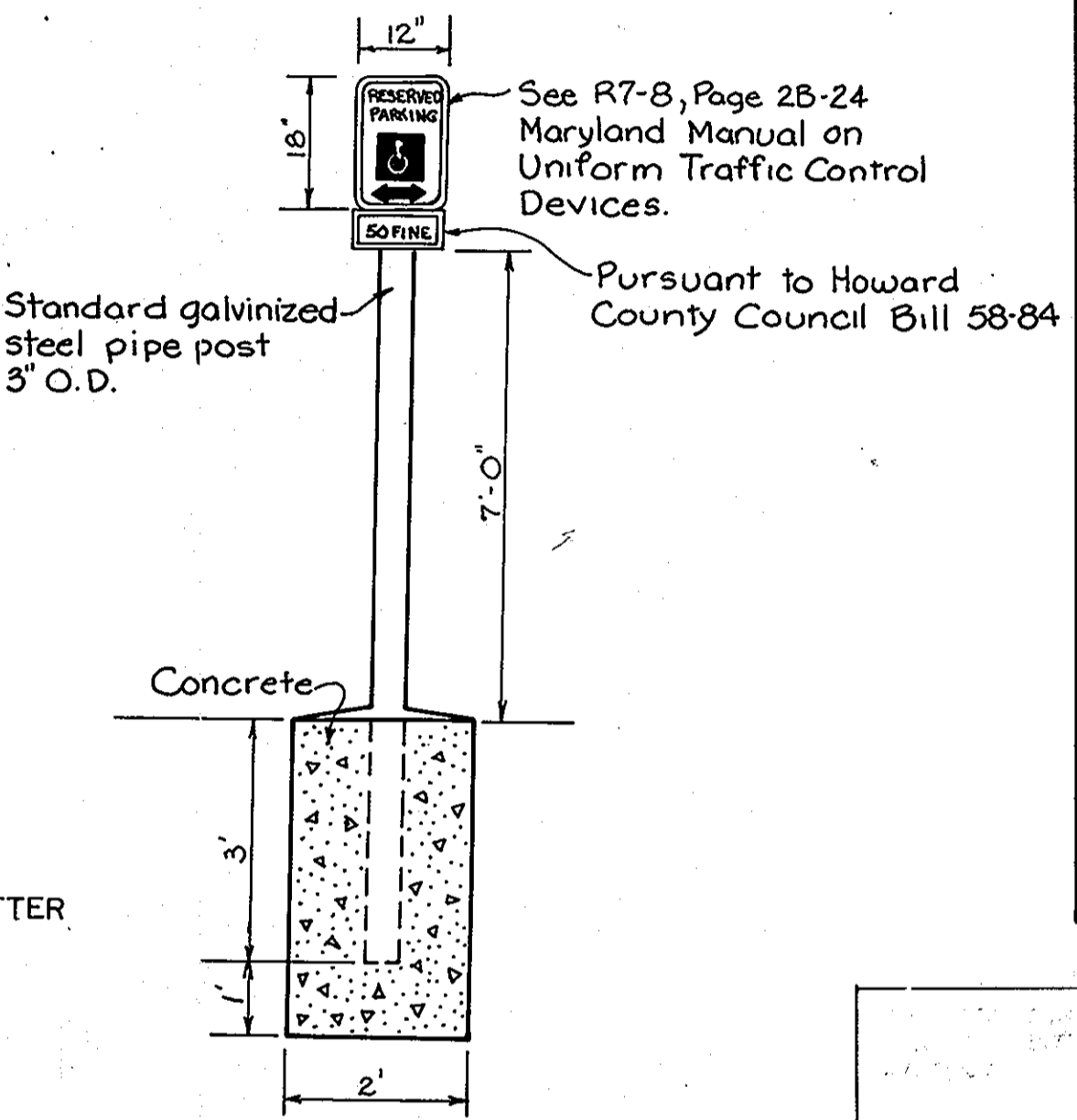
* SEE SHEET 5 OF 5 FOR STRUCTURE AND PIPE SCHEDULE



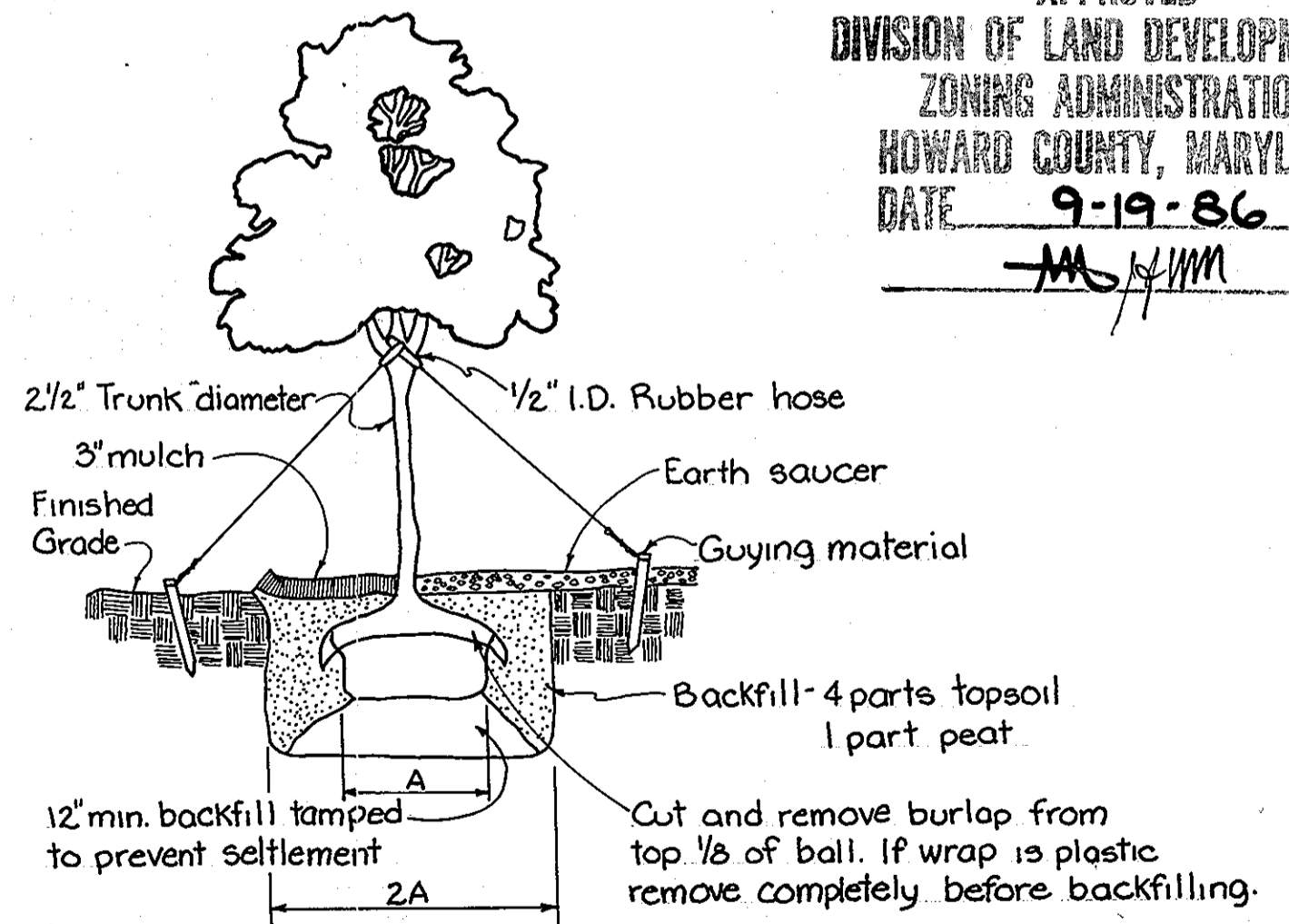
PLAN BELOW SLAB
TO MEET CURB AND GUTTER
TOP EL. 210.17



SECTION A-A
DETAIL OF MODIFIED A-5 INLET
NOT TO SCALE
FOR DETAILS AND NOTES NOT SHOWN HEREON SEE HOWARD CO. STD. SD 4.01.

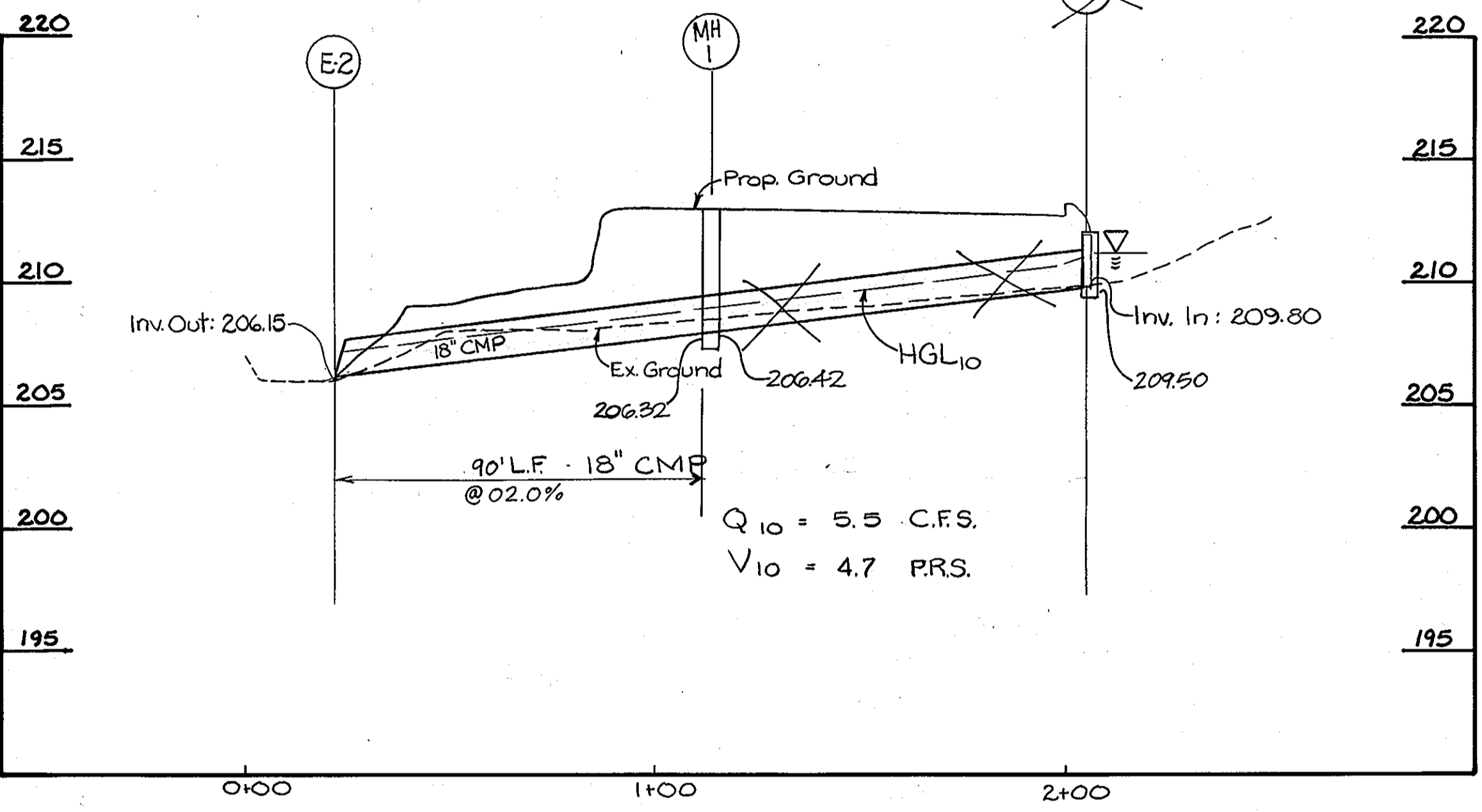


HANDICAPPED PARKING SIGN DETAIL
Not To Scale



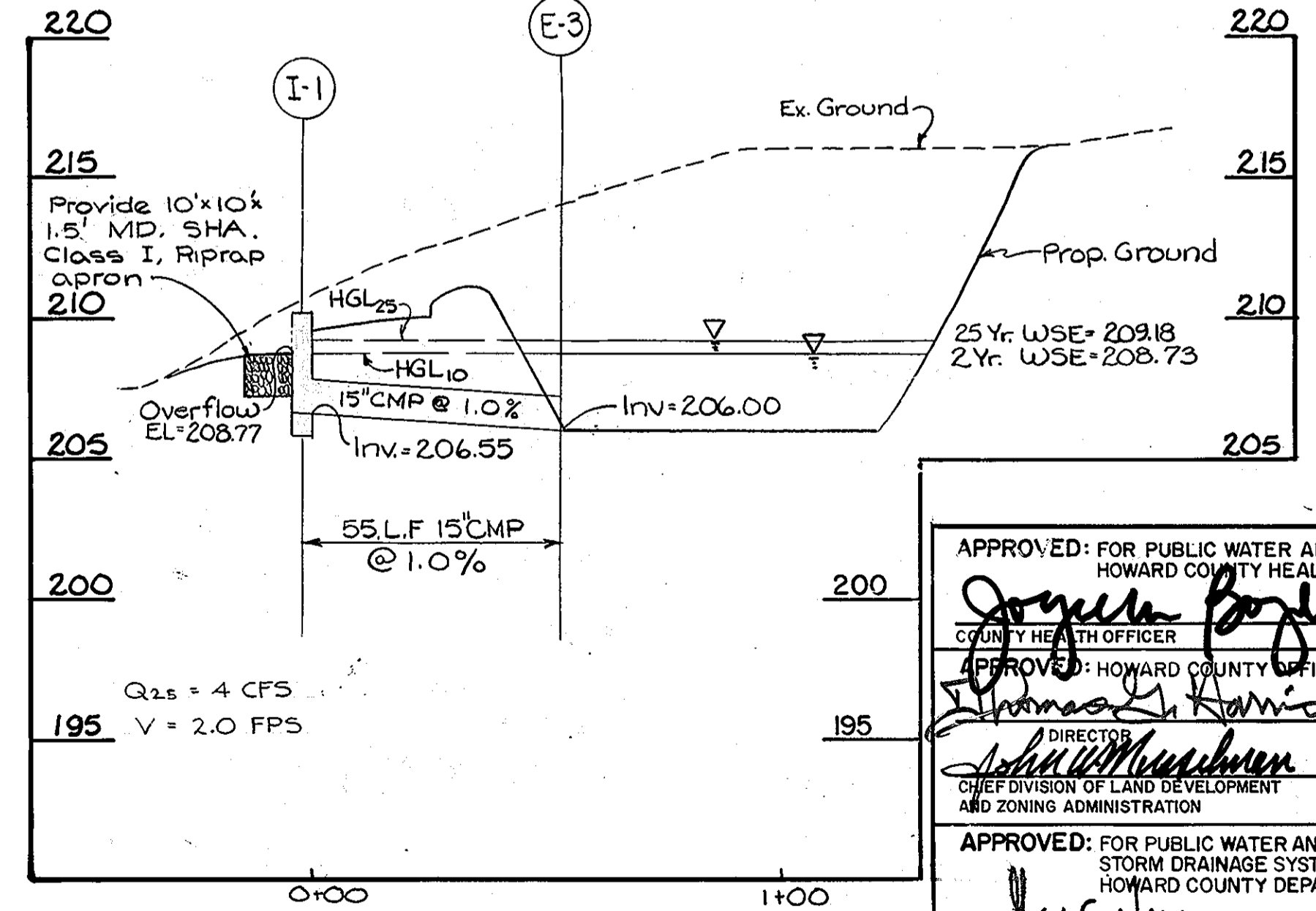
TREE PLANTING DETAIL
Not To Scale

APPROVED
DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION
HOWARD COUNTY, MARYLAND
DATE 9-19-86
M. J. M.

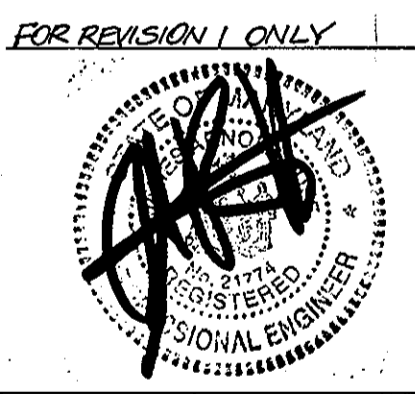


PROFILE: 18" CMP
Scale: Horz-1" = 30'
Vert-1" = 5'

DEVELOPER/OWNER
C-W & COMPANY
10901 PUMP HOUSE ROAD
ANNAPOLIS JUNCTION, MD 20701
410-880-0950



PROFILE: 15" CMP
Scale: Horz-1" = 30'
Vert-1" = 5'



FOR REVISION 1 ONLY

APPROVED: FOR PUBLIC WATER AND PRIVATE SEWERAGE SYSTEM
HOWARD COUNTY HEALTH DEPARTMENT
COUNTY HEALTH OFFICER: *Joyella Boyles* DATE: 10-16-86
APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING
DIRECTOR: *Thomas J. Kinnon* DATE: 10-16-86
APPROVED: FOR PUBLIC WATER AND STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
DIRECTOR: *Richard H. Berich* DATE: 10-15-86
CHIEF BUREAU OF ENGINEERING: *Richard H. Berich* DATE: 10-16-86

CONSTRUCTION SPECIFICATIONS FOR INFILTRATION DEVICE

SCHEDULE
The partially excavated basin shall serve as a sedimentation basin in order to assist in erosion and sediment control during construction. However, basin should never be used prematurely for runoff disposal near final stages of excavation. Drainage from untreated, freshly constructed slopes within the watershed area would load the newly formed basin with a heavy concentration of fine sediment. This could seriously impair the natural infiltration characteristics of basin floor. Final grade of an infiltration basin shall not be attained after its use as a sediment control basin is completed.

SITE PREPARATION
Areas covered by the infiltration basin shall 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 removed approximately one foot minimum below the final bottom elevation.

EXCAVATION OF BASIN
All cleared and grubbed material shall be disposed of outside the limits of the dam and basin 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.

STABILIZATION
All borrow areas shall be graded to provide proper drainage and left in a slightly condition. All exposed surfaces of the embankment, spillway, and side slopes shall be stabilized by seeding, fertilizing, and mulching in accordance with the permanent seeding notes.

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS.
James M. Nelson 10/9/86
U.S. SOIL CONSERVATION SERVICE DATE
APPROVED: FOR SOIL EROSION AND SEDIMENT CONTROL.
Stephen L. Ansh 10/9/86
HOWARD SOIL CONSERVATION DISTRICT DATE

PURDUM & JESCHKE CONSULTING ENGINEERS LAND SURVEYORS
1029 North Calvert Street
Baltimore, Maryland 21202 301/837-0194

DEVELOPER'S CERTIFICATION
I certify that all development and construction will be done according to this plan any responsible personnel involved in the construction project will have a certificate of attendance at the Dept. of Natural Resources approved training program for the control of any sediment erosion before beginning the project.
Charles A. Cummins II 8/21/86
DATE

ENGINEERS CERTIFICATION
I certify that this plan for erosion and sediment control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard Soil Conservation District.
Richard H. Berich 8/21/86
DATE



STORM DRAINAGE AREA MAP, PROFILES & DETAILS C-W & COMPANY LOT 'A-1'
6TH ELECTION DISTRICT HOWARD COUNTY, MD.
TAX MAP NO. 48 SCALE: AS SHOWN
DATE: SEPT. 25-1986 BUILDING ADDITION TO SDP-77-74

SHEET 2 OF 5
DES: L.B.B.
DRW'N: C.N.W.
CHK: R.H.B.
W.O. No. 6342-00

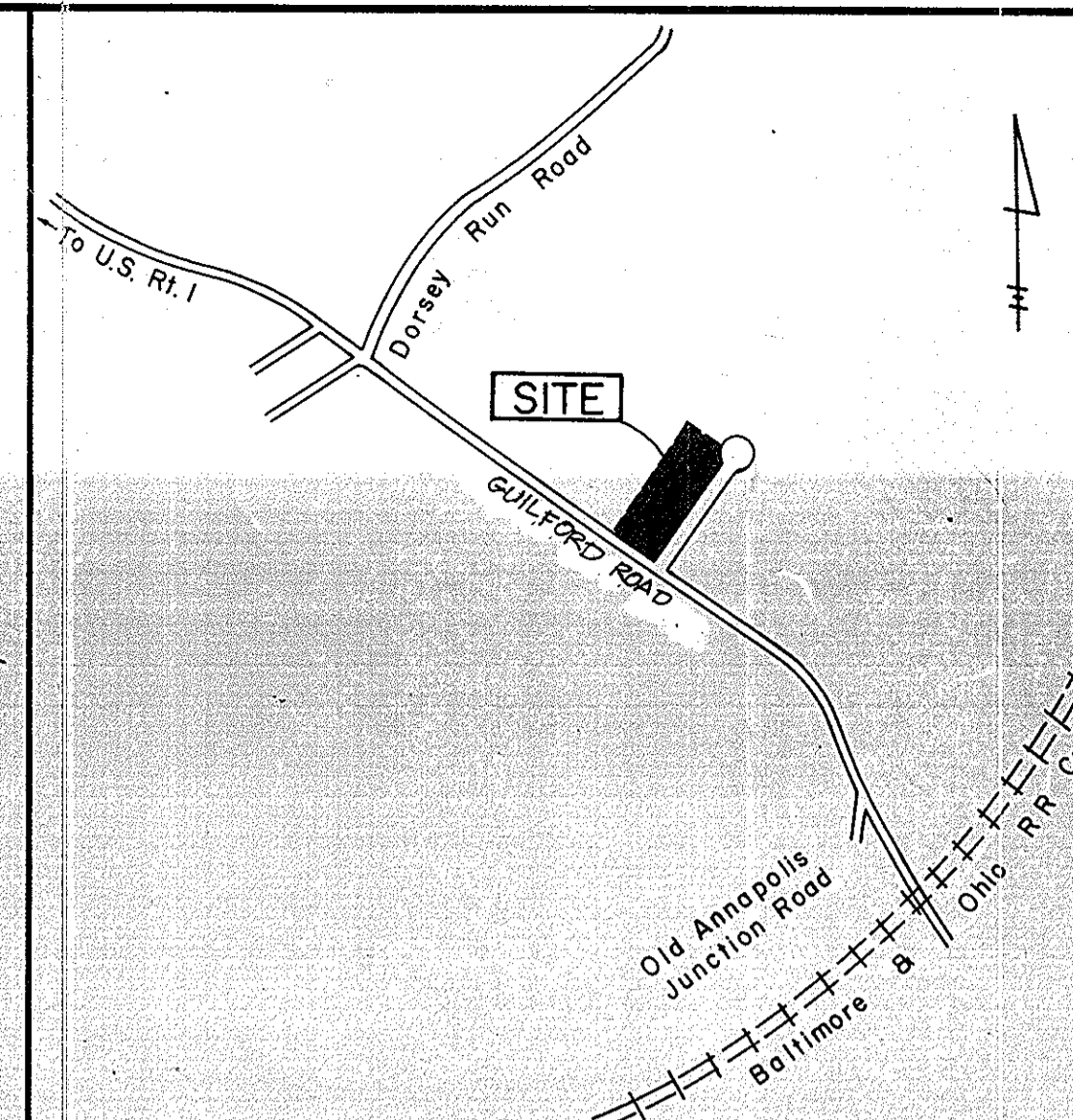
GENERAL NOTES

- All work shown on these plans shall be constructed in accordance with the latest revision of Volume IX of the Howard County Design Manual, "Standard Specifications and Details for Construction."
- All new paving on-site shall be Howard County Std. # P-2.
- All new paving in the Public Right-of-Way shall be Howard County Std # P-3.
- All new curb & gutter shall be Howard County Std. No R 3.01 7" combination curb & gutter from Pump House Road to the ends of all curb return radii.
- All on-site curb shall be Howard County Std. Na R 3.03 bituminous curb.
- HANDICAP SPACES AND ROUTES TO MEET ALL ADA REQUIREMENTS.

LANDSCAPING LEGEND

- SCOTCH PINE
- PROPOSED SCOTCH PINE - PINUS SYLVESTRIS 4-5' BxB(3)
- PROPOSED BRADFORD PEAR - PYRUS CALLERYANA 4-5' BxB(4)
- EX. HARDWOOD TREE (BY OTHERS - PUMPHOUSE ROAD CONSTRUCTION)
- SOD SWALE
- SHADE TREE

SCHEDULE A PERIMETER - LANDSCAPE EDGE			
CATEGORY	ADJACENT TO PERIMETER AND ROADWAYS	ACCIDENT TO CORNER	TO
PERIMETER PLANTING DESIGNATION			
LANDSCAPE TYPE			
LINEAR FEET OF ROADWAY FRONTAGE / PERIMETER	170'		7
CREDIT FOR EXISTING VEGETATION	NO		
CREDIT FOR WALL, FENCE OR BERM	NO		
NUMBER OF PLANTS REQUIRED			
SHADE TREES	100	3	110
EVERGREEN TREES	100	3	110
NUMBER OF PLANTS PROVIDED			
SHADE TREES	110	3	110
EVERGREEN TREES	110	3	110
OTHER TREES (i.e. SUBSTITUTION SHRUBS (1:1) SUBSTITUTION)			



VICINITY MAP
1" = 800'

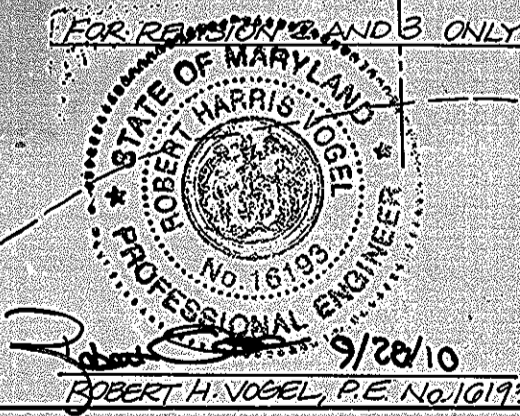
LANDSCAPE SCHEDULE				
KEY	QTY	BOTANICAL NAME	SIZE	CAT.
AR	3	ACER RUBRUM	2 1/2'-3' CAL B&B	
		OCTOBER GLORY RED MAPLE		

SITE ANALYSIS

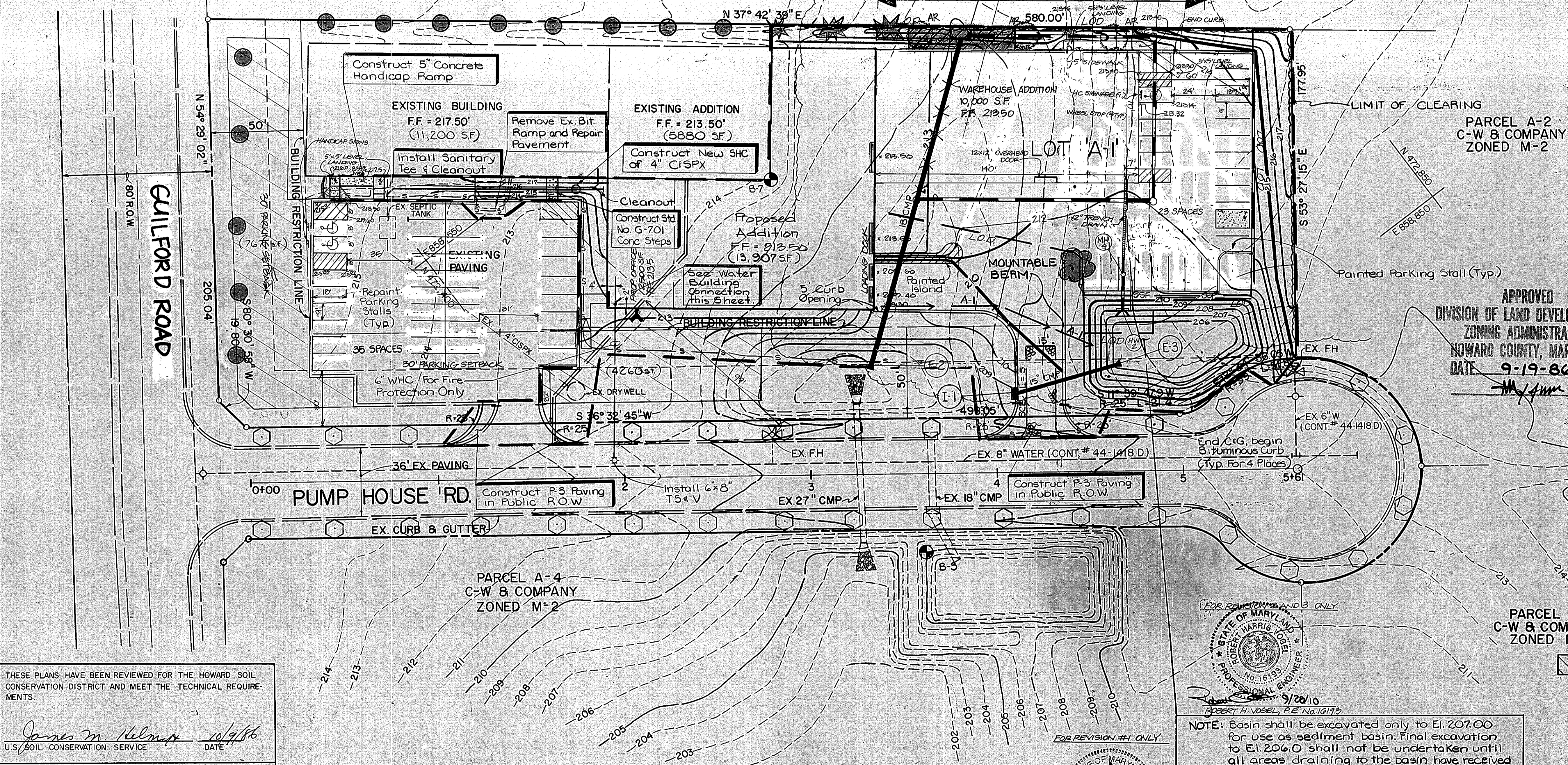
Area of property: 2.80 acres ±
 Proposed use: Light Manufacturing & Warehousing
 Zoning: M-2
 Building coverage: 30987 s.f. (25.41%)
 Area of parking lots: 44,029 s.f.
 Area and percentage of landscaped islands within the parking lots: 3501 s.f. (7.95%)
 Open space to remain: 46253 s.f.
 Number of employees: 70
 Parking spaces required: 30987/500 = 62
 Parking spaces provided: 79
 Tax Map No.: 48

APPROVED
 DIVISION OF LAND DEVELOPMENT &
 ZONING ADMINISTRATION
 HOWARD COUNTY, MARYLAND
 DATE: 9-19-86
M.J. Ann

APPROVED: FOR PUBLIC WATER AND PRIVATE SEWERAGE SYSTEMS
 HOWARD COUNTY HEALTH DEPARTMENT
 COUNTY HEALTH OFFICER: *James M. Boyd MD* 10-16-86
 APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING
 DIRECTOR: *Thomas R. Harris* 10-16-86
 CHIEF DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION
 DATE: 10-16-86
 APPROVED: FOR PUBLIC WATER AND STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 DIRECTOR: *John J. [unclear]* 10-15-86
 CHIEF BUREAU OF ENGINEERING: *John J. [unclear]* DATE: 10-15-86



NOTE: Basin shall be excavated only to El. 207.00 for use as sediment basin. Final excavation to El. 206.0 shall not be undertaken until all areas draining to the basin have received final stabilization.

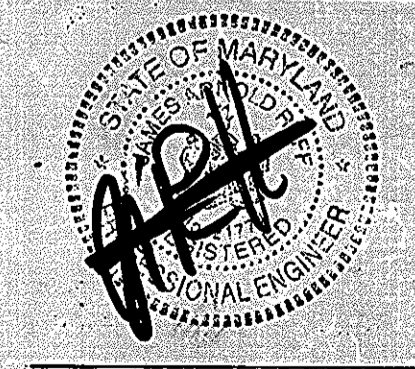


THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS.
James M. Helm 10/9/86
 U.S. SOIL CONSERVATION SERVICE DATE

APPROVED: FOR SOIL EROSION AND SEDIMENT CONTROL
Stephen L. [unclear] 10/9/86
 HOWARD SOIL CONSERVATION DISTRICT DATE

OWNER / DEVELOPER
 C-W & Company
 10901 Pump House Rd.
 Annapolis Junction, MD 20701
 (410) 890-0850

SEDIMENT CONTROL LEGEND
 ——— LIMIT OF DISTURBANCE
 — S SILT FENCE
 — A-1 EARTH DIKE



DEVELOPER'S CERTIFICATION
 I CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN AND ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT DEPARTMENT OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF ANY SEDIMENT EROSION BEFORE BEGINNING THE PROJECT.
Charles A. Cummins II 8/21/86
 CHARLES A. CUMMINS II Date

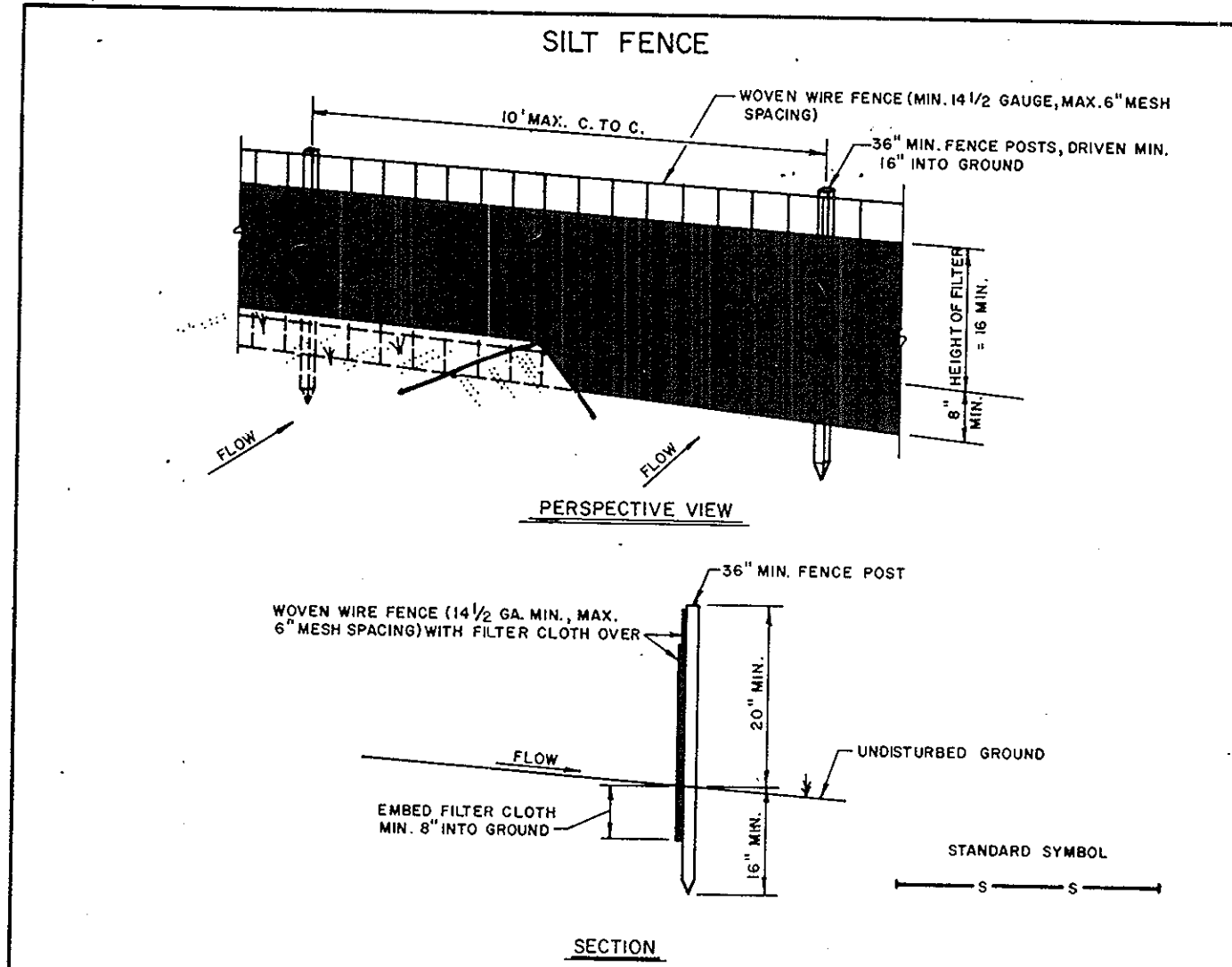
ENGINEER'S CERTIFICATION
 I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.
Richard H. Berich 8/21/86
 RICHARD H. BERICH P.E. Date



SEDIMENT CONTROL & LANDSCAPING PLAN
 C-W & COMPANY
 LOT 'A-1'
 6TH ELECTION DISTRICT HOWARD COUNTY, MD
 TAX MAP NO. 48 SCALE: 1" = 30'
 DATE: SEPT. 25, 1986 BUILDING ADDITION TO S.D.P. 77-74 W.O. No. 6342-00

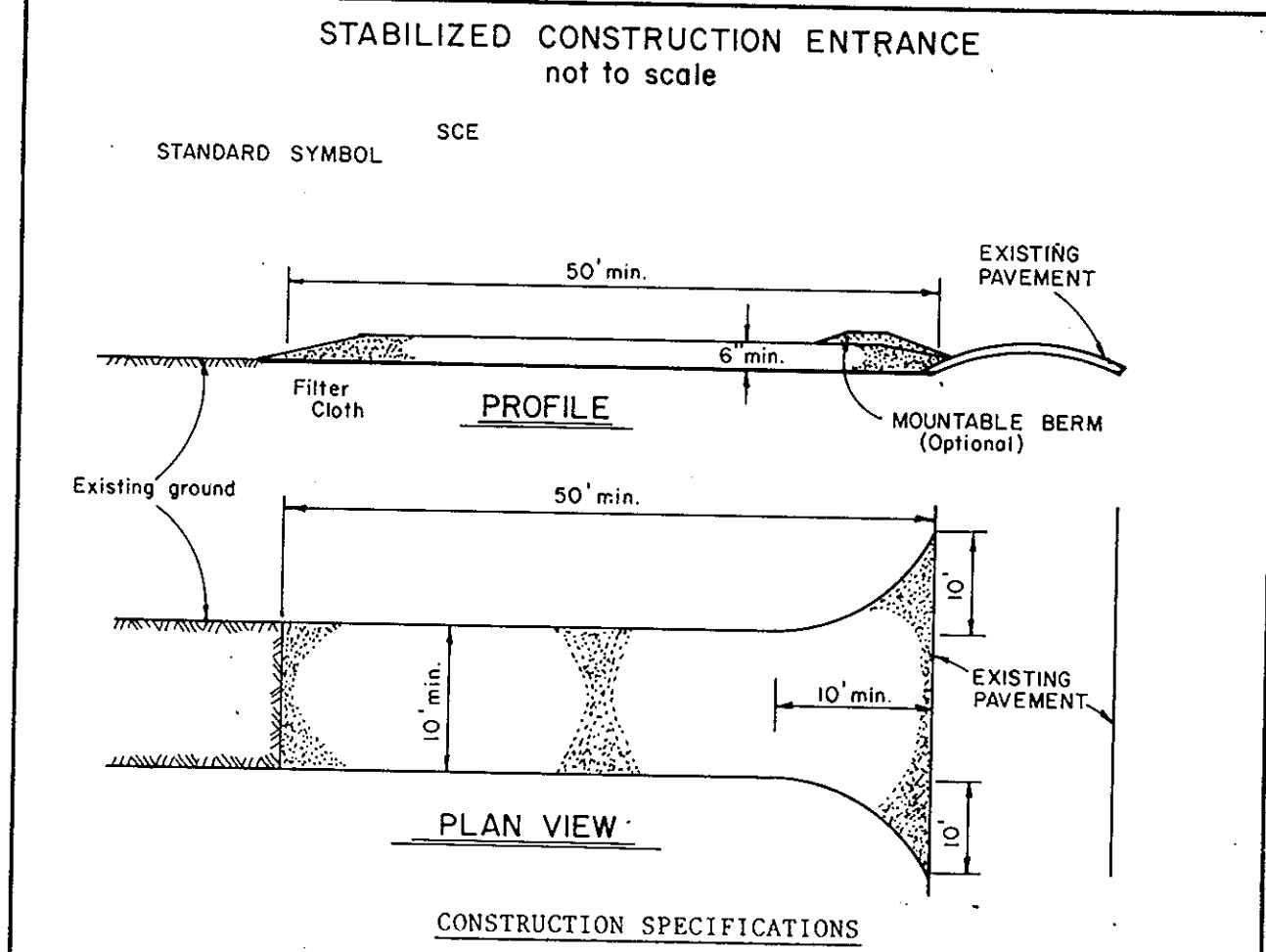
PURDUM & JESCHKE
CONSULTING ENGINEERS
LAND SURVEYORS
 1029 North Calvert Street
 Baltimore, Maryland 21202 301/837-0194

SHEET 3 OF 4
 DES: L.B.B.
 DRW'N: C.N.W.
 CHK: R.H.B.



CONSTRUCTION NOTES FOR FABRICATED SILT FENCE

- Woven wire fence to be fastened securely to fence posts with wire ties or staples.
 - Filter cloth to be fastened securely to woven wire fence with ties spaced every 24" at top and mid-section.
 - When two sections of filter cloth adjoin each other, they shall be overlapped by six inches and folded.
 - Maintenance shall be performed as needed and material removed when "bulges" develop in the silt fence.
- POSTS: Steel either T or U Type or 2" Hardwood
 FENCE: Woven wire, 14 Ga. 6" Max. Mesh Opening every 24" at top and mid-section.
 FILTER CLOTH: Filter X, Miraflo 100X, Stabilinka T140N, or approved equal
 PREFABRICATED UNIT: Geofab, Envirofence, or approved equal



CONSTRUCTION SPECIFICATIONS

- Stone Size - Use 2" stone, or reclaimed or recycled concrete equivalent.
- Length - As required, but not less than 50 feet (except on a single residence lot where a 30-foot minimum length would apply).
- Thickness - Not less than six (6) inches.
- Width - Ten (10) foot minimum, but not less than the full width at points where ingress or egress occurs.
- Filter Cloth - Will be placed over the entire area prior to placing of stone. Filter will not be required on a single family residence lot.
- Surface Water - All surface water flowing or diverted toward construction entrances shall be piped across the entrance. If piping is impractical, a mountable berm with 5:1 slopes will be permitted.
- Maintenance - The entrance shall be maintained in a condition which will prevent tracking or flowing of sediment onto public rights-of-way. This may require periodic top dressing with additional stone as conditions demand and repair and/or cleanout of any measures used to trap sediment. All sediment spilled, dropped, washed, or tracked onto public rights-of-way must be removed immediately.
- Washing - Wheels shall be cleaned to remove sediment prior to entrance onto public rights-of-way. When washing is required, it shall be done on an area stabilized with stone and which drains into an approved sediment trapping device.
- Periodic inspections and needed maintenance shall be provided after each rain.

PERMANENT SEEDING NOTES

Apply to graded or cleared areas not subject to immediate further disturbance where a permanent, long-lived vegetative cover is needed.

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

Soil Amendments: Use on the following schedules:

- Preferred - Apply 2 tons per acre dolomitic limestone (92 lbs./1000 sq.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 sq.ft.) and 1000 lbs. per acre 10-10-10 fertilizer (23 lbs./1000 sq.ft.) before seeding. Harrow or disc into upper three inches of soil.

Seeding: For the periods March 1 thru April 30 and August 1 thru October 15, seed with 60 lbs. per acre (1.4 lbs./1000 sq.ft.) of Kentucky 31 Tall Fescue. For the period May 1 thru July 31, seed with 60 lbs. of 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. per acre Kentucky 31 Tall Fescue, and mulch with 2 tons per acre well-anchored straw.

Mulching: Apply 1 1/2 to 2 tons per acre (70 to 90 lbs./1000 sq.ft.) of unrotted small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 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

Apply to graded or cleared areas likely to be redistributed where a short-term vegetative cover is needed.

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

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

Seeding: For periods March 1 thru April 30 and from August 15 thru November 15, seed with 2 1/2 bushel per area of annual rye (3.2 lbs/1000 sq.ft.). For the period May 1 thru August 14, seed with 3 lbs. per acre of weeping lovegrass (.07 lbs/1000 sq.ft.). For the period November 16 thru February 28, protect site by applying 2 tons per acre of well-anchored straw mulch, and seed as soon as possible in the spring, or use sod.

Mulching: Apply 1 1/2 to 2 tons per acre (70 to 90 lbs/1000 sq.ft.) of unrotted small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gal per acre (5 gal/1000 sq.ft.) of emulsified asphalt on flat areas. On slopes 8 feet or higher, use 348 gal. per acre (8 gal/1000 sq.ft.) for anchoring.

Refer to the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for rate and methods not covered.

SEDIMENT CONTROL NOTES

- A minimum of 24 hours notice must be given to the Howard County Office of Inspection and Permits prior to the start of any construction (992-2437).
- All vegetative and structural practices are to be installed according to the provisions of this plan and are to be in conformance with the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.
- Following initial soil disturbance or 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 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for permanent seeding (Sec. 51), sod (Sec. 54), temporary seeding (Sec. 50), and mulching (Sec. 52). Temporary stabilization with mulch along can only be done when recommended seeding dates do not allow 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	2.80 acres
Area disturbed	1.85 acres
Area to be roofed or paved	0.25 acres
Area to be vegetatively stabilized	0.90 acres
Total cut	3460 cu.yds.
Total fill	2100 cu.yds.
Off-site	Not known
- 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 controls must be provided, if deemed necessary by the Howard County DPW 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 grading. Other building or grading inspection approvals may not be authorized until this initial approval by the inspection agency is made.
- On all site with disturbed areas in excess of 2 acres, approval of the inspection agency shall be requested upon completion of installation of perimeter erosion and grading. Other building or grading inspection approvals may not be authorized until this initial approval by the inspection agency is made.

SODDING NOTES

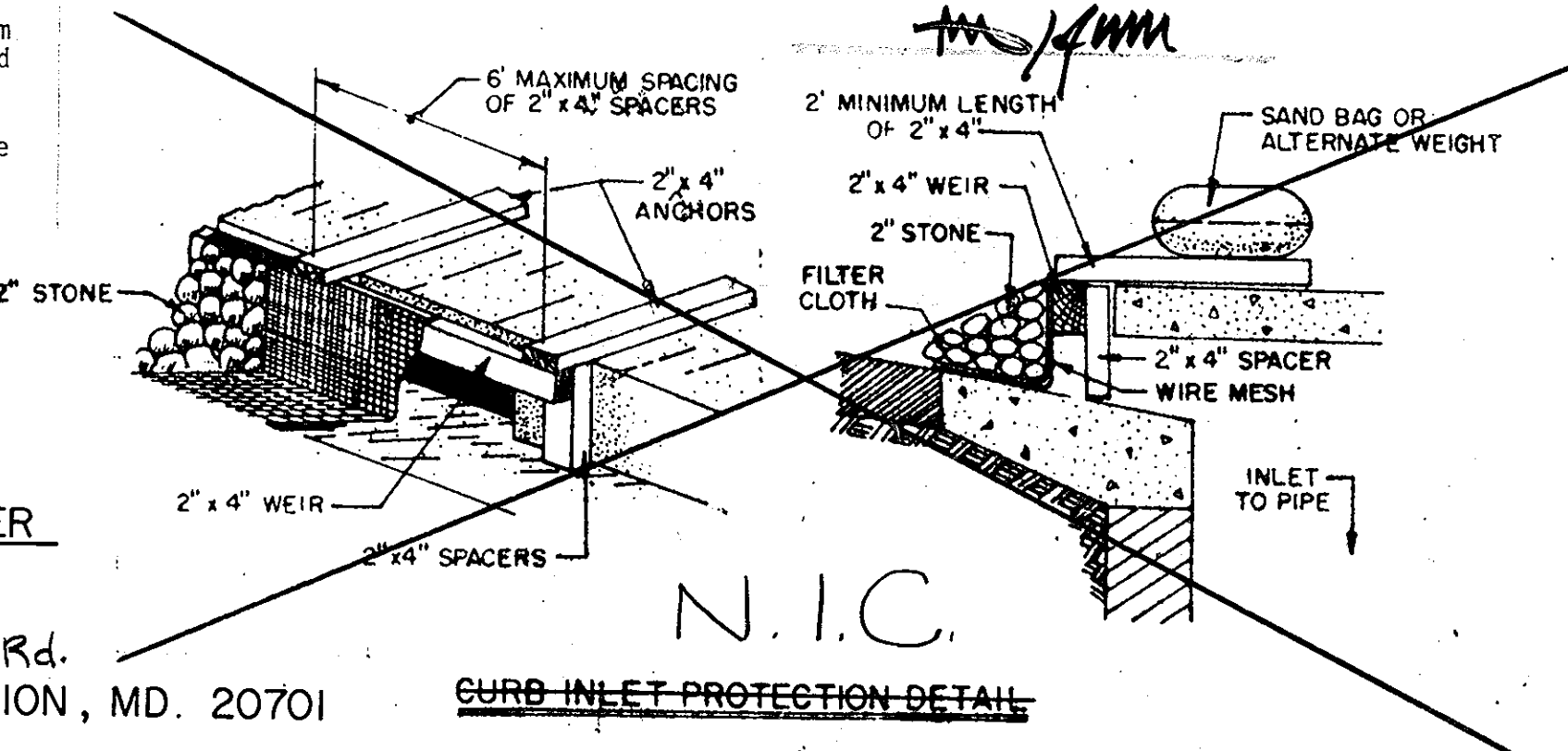
- Bed Preparation and Soil Amendments**
 - Prior to sodding, the surface shall be cleared of all trash, debris, and of all roots, brush, wire, grade stakes, and other objects that would interfere with planting, fertilizing, or maintenance operations.
 - Ground limestone shall be spread at the rate of 2 tons per acre or 100 pounds per 1,000 square feet. In all soils, 1,000 pounds per acre or 25 pounds per 1,000 square feet of 10-10-10 fertilizer or equivalent shall be uniformly applied and mixed into the top 3 inches of soil with the required lime.
 - All areas receiving sod shall be uniformly fine graded. Hard-packed earth shall be scarified prior to placement of sod.
- Sod Installation**
 - During periods of excessively high temperature, the soil shall be lightly irrigated immediately prior to laying the sod.
 - The first row of sod shall be laid in a straight line with subsequent rows placed parallel to and tightly wedged against each other. Lateral joints shall be staggered to promote more uniform growth and strength. Insure that sod is not stretched or overlapped and that all joints are butted tight in order to prevent voids which would cause air drying of the roots.
 - Sod shall be laid with the long edges parallel to the contour and with staggered joints. Secure the sod by tamping and pegging.
 - As sodding is completed in any one section, the entire area shall be rolled or tamped to insure solid contact of roots with the soil surface. Sod shall be watered immediately after rolling or tamping until the underside of the new sod pad and soil surface below the sod are thoroughly wet. The operations of laying, tamping, and irrigating for any piece of sod shall be completed within eight hours.
- Sod Maintenance**
 - In the absence of adequate rainfall, watering shall be performed daily or as often as necessary during the first week and in sufficient quantities to maintain moist soil to a depth of 4 inches. Waterings should be done during the heat of the day to prevent wilting.
 - After the first week sod shall be watered as necessary to maintain adequate moisture and insure establishment.
 - First mowing should not be attempted until sod is firmly rooted. No more than 1/3 of the grass leaf shall be removed by the initial cutting or subsequent cuttings. Grass height shall be maintained between 2 and 3 inches unless otherwise specified.

APPROVED FOR PUBLIC WATER AND PRIVATE SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT
J. J. [Signature] 10-16-86
 HEALTH OFFICER DATE

APPROVED FOR HOWARD COUNTY OFFICE OF PLANNING & ZONING
[Signature] 10-16-86
 DIRECTOR DATE

APPROVED FOR PUBLIC WATER AND STORM DRAINAGE SYSTEMS AND PUBLIC ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS.
[Signature] 10-15-86
 DIRECTOR DATE

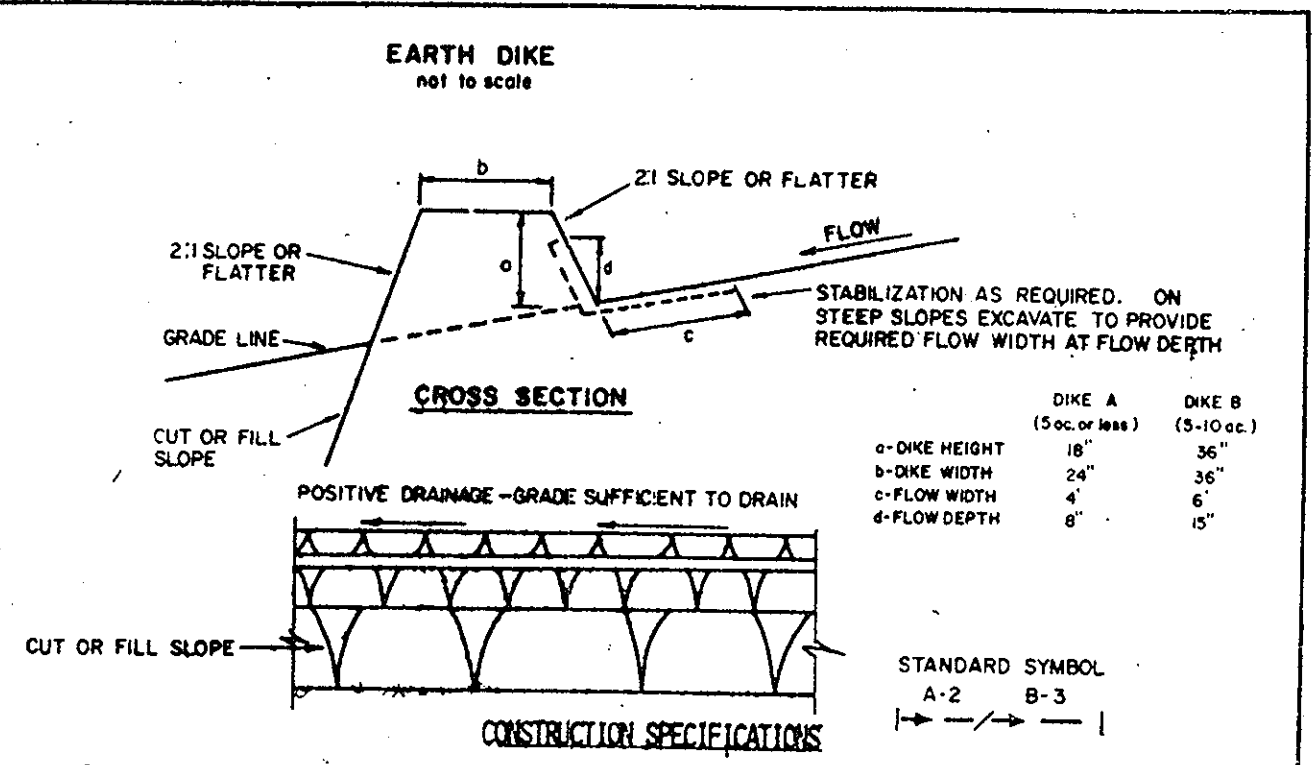
APPROVED
 DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION
 HOWARD COUNTY, MARYLAND
 DATE 9-19-86
[Signature]



~~CONSTRUCTION SCHEDULE~~

- Obtain grading permit.
- Designate contractor's staging and stockpile areas.
- Clear and grub for the installation of perimeter sediment controls and basin.
- Install silt fence, and construct 18" CMP E-1 to E-2.
- Excavate basin to elevation 207.
- Construct all drainage pipes and structures repairing stabilized construction entrance where crossed by 36" CMP.
- Construct earth dike.
- Complete site clearing and grubbing.
- Begin site grading and building foundation excavation.
- Begin building construction.
- Construct curb and gutter.
- Construct asphalt paving and curbs.
- Backfill and curbs and fine grade site.
- Plant site in accordance with landscaping plan.
- When stabilization is evident on site, clean all sediment from E-1 and the 15" CMP. Excavate the basin to elevation 206, and seed and mulch.
- Remove all remaining silt fence and dikes, and stabilize disturbed areas.

* SEE SHEET 5 OF 5 FOR ADDITIONAL NOTES AND DETAILS



CONSTRUCTION SPECIFICATIONS

- All dikes shall be compacted by earth-moving equipment.
- All dikes shall have positive drainage to an outlet.
- TOP WIDTH MAY BE WIDER AND SIDE SLOPES MAY BE FLATTER IF DESIRED TO FACILITATE CROSSING BY CONSTRUCTION TRAFFIC.
- FIELD LOCATION SHOULD BE ADJUSTED AS NEEDED TO UTILIZE A STABILIZED SAFE OUTLET. EARTH DIKES SHALL HAVE AN OUTLET THAT FUNCTIONS WITH A MINIMUM OF EROSION. RUNOFF SHALL BE CONVEYED TO A SEDIMENT TRAPPING DEVICE SUCH AS A SEDIMENT TRAP OR SEDIMENT BASIN WHERE EITHER THE DIKE CHANNEL OR THE DRAINAGE AREA ABOVE THE DIKE ARE NOT ADEQUATELY STABILIZED.
- STABILIZATION SHALL BE: (A) IN ACCORDANCE WITH STANDARD SPECIFICATIONS FOR SEED AND STRAW MULCH OR STRAW MULCH IF NOT IN SEEDING SEASON, (B) FLOW CHANNEL AS PER THE CHART BELOW.

TYPE OF TREATMENT	CHANNEL GRADE	DIKE A	DIKE B
1	5-3.0%	SEED AND STRAW MULCH	SEED AND STRAW MULCH
2	3.1-5.0%	SEED AND STRAW MULCH	SEED USING JUTE, OR EXCELSTOR; SOD; 2" STONE
3	5.1-8.0%	SEED WITH JUTE, OR SOD; 2" STONE	LINED RIP-RAP 4-8"
4	8.1-20%	LINED RIP-RAP 4-8"	ENGINEERING DESIGN

A. STONE TO BE 2 INCH STONE, OR RECYCLED CONCRETE EQUIVALENT, IN A LAYER AT LEAST 3 INCHES IN THICKNESS AND BE PRESSED INTO THE SOIL WITH CONSTRUCTION EQUIPMENT.
 B. RIP-RAP TO BE 4-8 INCHES IN A LAYER AT LEAST 8 INCHES THICKNESS AND PRESSED INTO THE SOIL.
 C. APPROVED EQUIVALENTS CAN BE SUBSTITUTED FOR ANY OF THE ABOVE MATERIALS.
 7. PERIODIC INSPECTION AND REQUIRED MAINTENANCE MUST BE PROVIDED AFTER EACH RAIN EVENT.

This development plan is approved for soil erosion and sediment control by the Howard Soil Conservation District.

Reviewed for Howard Soil Conservation District and meets technical requirements.

Approved *[Signature]* *[Signature]* *[Signature]* *[Signature]*
 Signature Date U.S. Soil Conservation Dist. Date

OWNER / DEVELOPER
 C-W & COMPANY
 10901 Pump House Rd.
 ANNA POLIS JUNCTION, MD. 20701
 410-800-0850

DEVELOPER'S CERTIFICATION
 I certify that all development and construction will be done according to this plan, and that any responsible personnel involved in the construction project will have a certificate of attendance at the Dept. of Natural Resources approved training program for the control of any sediment and erosion before beginning the project.
[Signature] 9-29-86
 CHARLES A. CUMMINS II DATE

ENGINEER'S CERTIFICATION
 I certify that this plan for erosion and sediment control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard Soil Conservation District.
[Signature] 9-29-86
 RICHARD H. BERICH DATE



10000 SE ADDITION 2500' OFFICE EXPANSION, STORM DRAIN REALIGNMENT, 12-10-00
 REVISION
 REVISED
 SHEET 4 OF 5
 DATE
 SEDIMENT CONTROL DETAILS
 C-W & COMPANY
 LOT 'A-I'
 6TH ELECTION DISTRICT ZONED M-2
 HOWARD COUNTY MD.
 SCALE: AS SHOWN
 DATE: SEPT. 25-1986

DES.	L.B.B.
DRWN.	C.N.W.
CHK.	R.H.B.

PURDUM & JESCHKE
 CONSULTING ENGINEERS
 LAND SURVEYORS
 1029 North Calvert Street
 Baltimore, Maryland 21202 301/837-0194

CONTRACTOR INFORMATION

Name: TO BE DETERMINED
 Address: _____
 City: _____
 State: _____
 Zip Code: _____
 Contact: _____
 Phone: _____
 Fax: _____

OWNER INFORMATION

Name: CUMMINS WAGNER COMPANY
 Address: 410-792-4230
 Phone: 301-490-7156
 Fax: _____

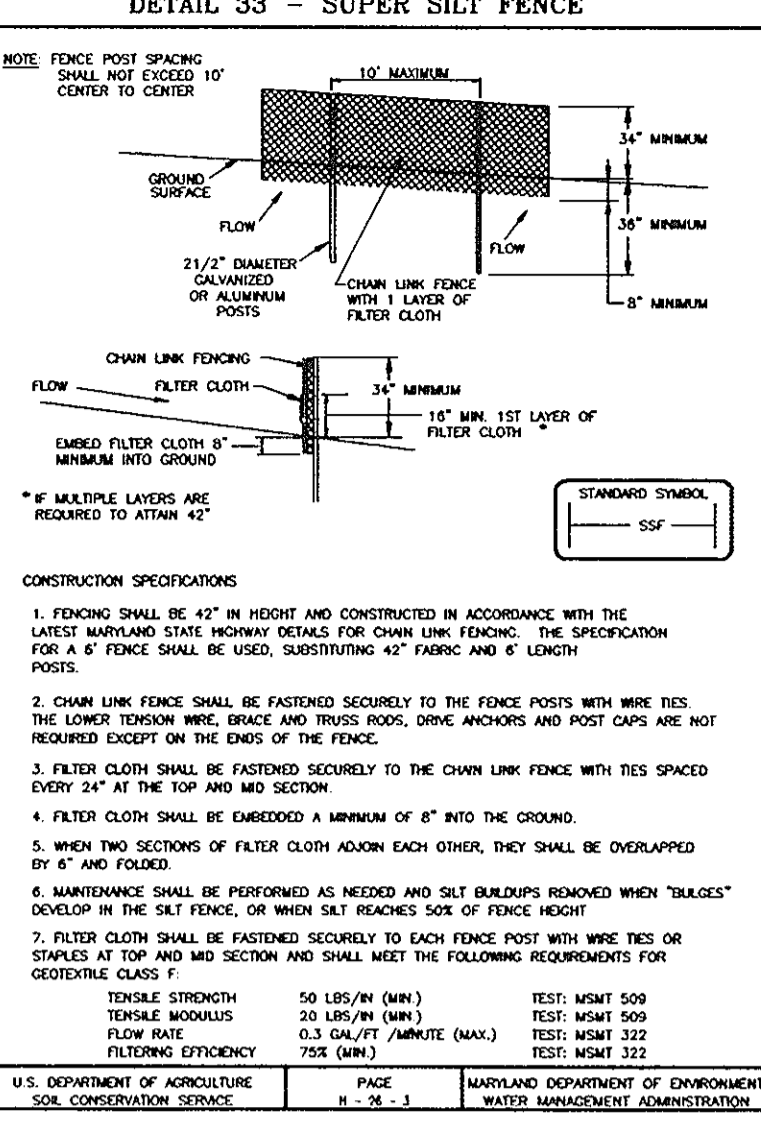
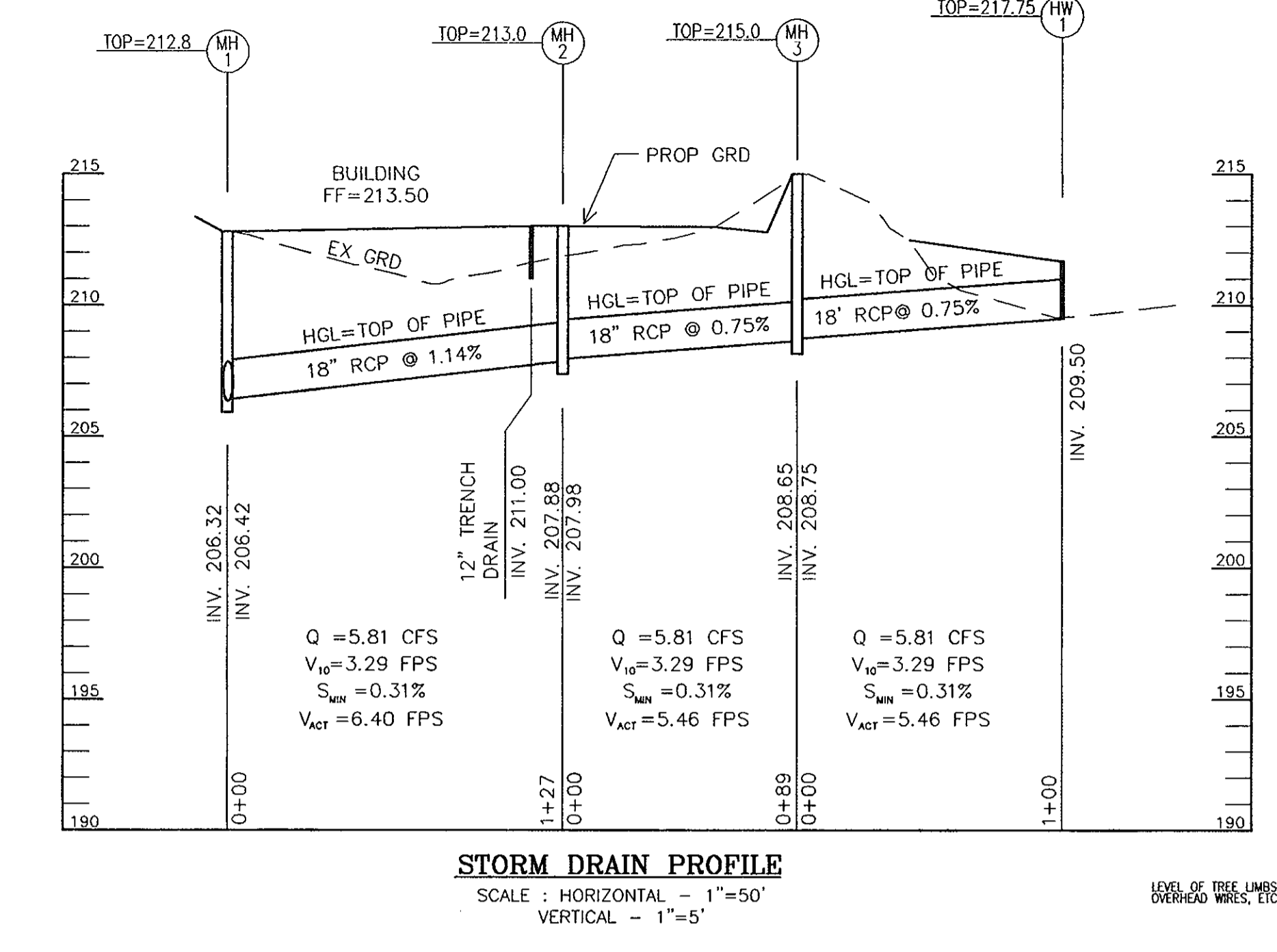
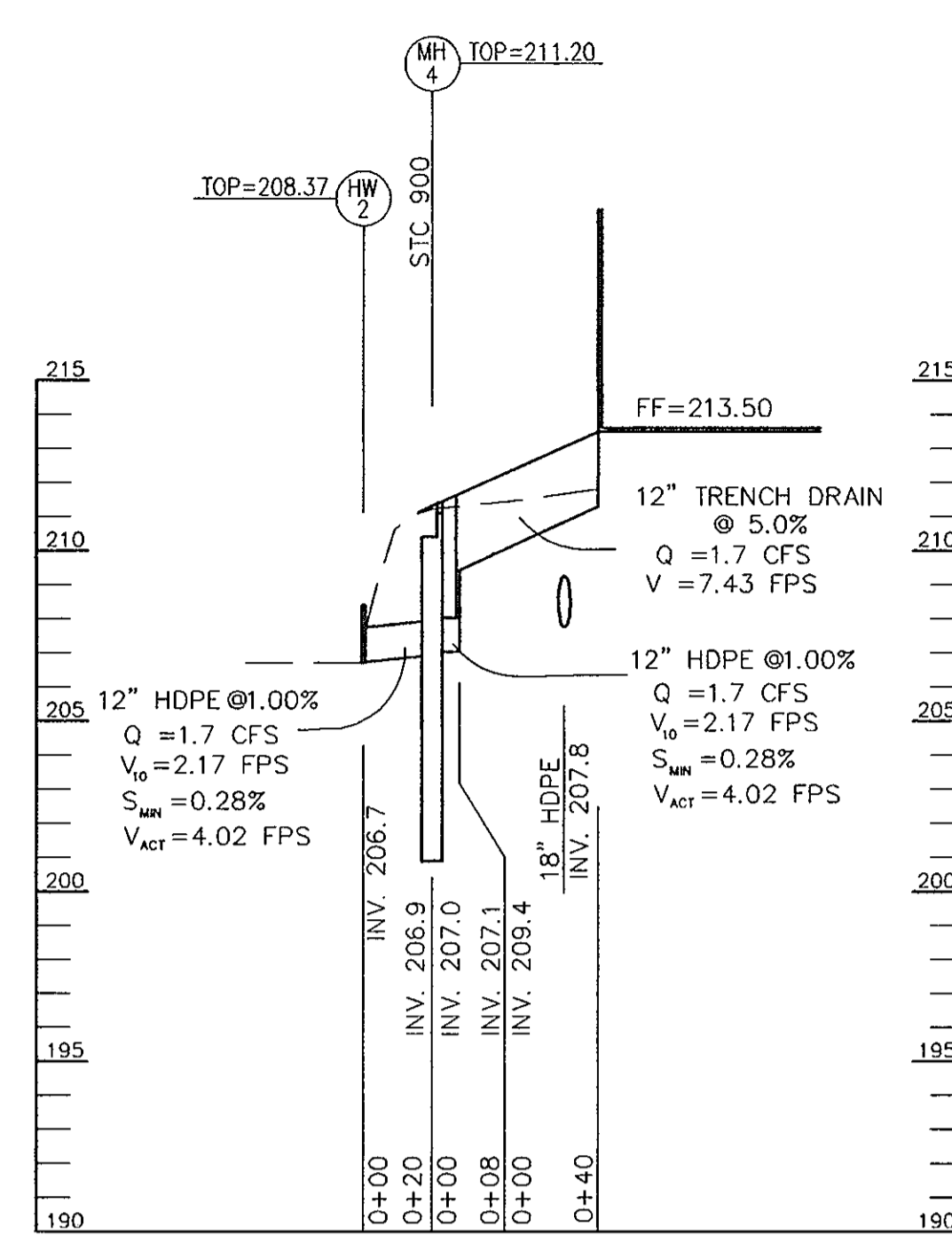
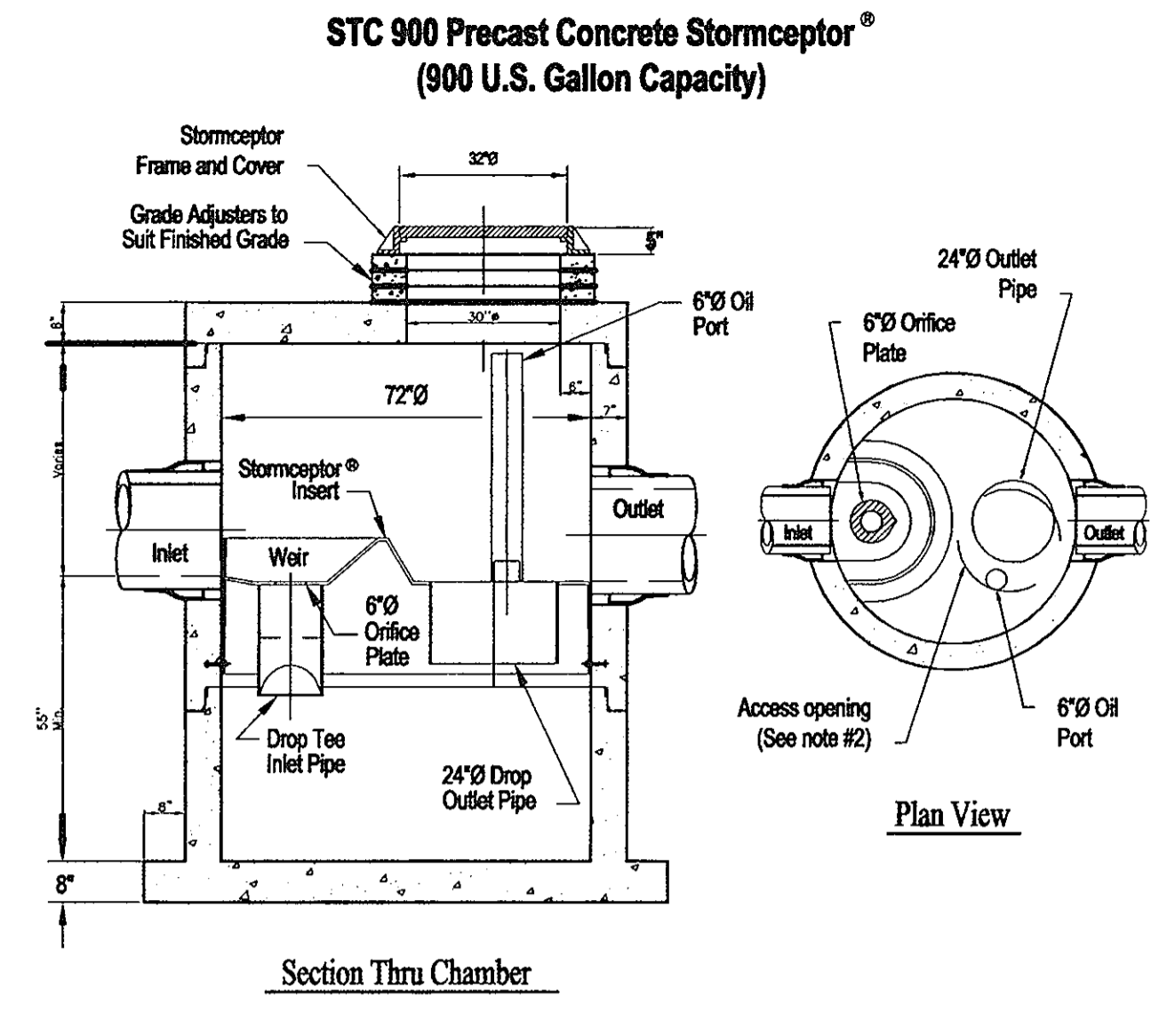
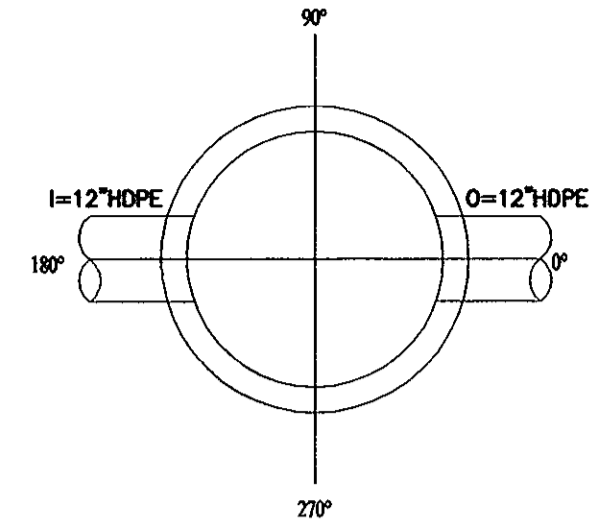
IMPERVIOUS DRAINAGE AREA FOR THIS UNIT: 0.23 AC.

Stormceptor Model

STC	3600	Model	MH 4
1200	<input type="checkbox"/>	Inlet Size	211.2
1800	<input type="checkbox"/>	Outlet Pipe Invert (ft)	207.0
2400	<input type="checkbox"/>	Outlet Pipe Invert (ft)	206.9
		Drop Tee Inlet Pipe	HDPE
		Inlet Pipe Inside Diameter (ID)	12"
		Inlet Pipe Outside Diameter (OD)	14.5"
		Outlet Pipe Inside Diameter (ID)	12"
		Outlet Pipe Outside Diameter (OD)	14.5"

Project Name: CW & COMPANY, LOT A-1
 Approximate time frame of delivery (weeks): _____
 Delivery Address: Street 10901 PUMP HOUSE ROAD
 City: ANNAPOLIS JUNCTION State: MARYLAND Zip Code: 20701
 Designer Company: ROBERT H. VOGEL ENGINEERING, INC.
 Designer Contact: ROBERT H. VOGEL Phone: (410) 461-7666 Fax: (410) 461-8961

PLEASE FILL OUT COMPLETELY AND FAX TO: CSR Hydro Conduit
 ATTN: ED O'MALLEY FAX: (703)922-3659, PHONE: (703)313-6399
 FOR TECHNICAL ASSISTANCE PLEASE CALL MIKE BARG, PHONE (703)313-6399



- Notes:**
- The Use Of Flexible Connection is Recommended at the Inlet and Outlet Where Applicable.
 - The Cover Should be Positioned Over The Outlet Drop Pipe and The Oil Port.
 - The Stormceptor System is protected by one or more of the following U.S. Patents: #4985148, #5498331, #5725760, #5731115, #5849181, #6068765, #6371690.
 - Contact a Concrete Pipe Division representative for further details not listed on this drawing.

PERMANENT SEEDING NOTES

APPLY TO GRADED OR CLEARED AREAS NOT SUBJECT TO IMMEDIATE FURTHER DISTURBANCE WHERE A PERMANENT LONG-LIVED VEGETATIVE COVER IS NEEDED. SEEDBED PREPARATION: LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISKING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING, IF NOT PREVIOUSLY LOOSENED. SOIL AMENDMENTS: IN LIEU OF SOIL TEST RECOMMENDATIONS, USE ONE OF THE FOLLOWING SCHEDULES:
 1. PREPARED: APPLY 2 TONS/ACRE DOLOMITIC LIMESTONE (92 LBS/1000 SQ. FT.) AND 600 LBS/ACRE 10-10-10 FERTILIZER (14 LBS/1000 SQ. FT.) BEFORE SEEDING. HARROW OR DISK INTO UPPER THREE INCHES OF SOIL. AT TIME OF SEEDING, APPLY 400 LBS/ACRE 30-0-0 UREAFORM FERTILIZER (9 LBS/1000 SQ. FT.)
 2. ACCEPTABLE: APPLY 2 TONS/ACRE DOLOMITIC LIMESTONE (92 LBS/1000 SQ. FT.) AND 1000 LBS/ACRE 10-10-10 FERTILIZER (23 LBS/1000 SQ. FT.) BEFORE SEEDING. HARROW OR DISK INTO UPPER THREE INCHES OF SOIL.
 SEEDING: FOR PERIODS MARCH 1 THRU APRIL 30, AND AUGUST 1 THRU OCTOBER 15, SEED WITH 60 LBS/ACRE (1.4 LBS/1000 SQ.FT.) OF KENTUCKY 31 TALL FESCUE PER ACRE AND 2 LBS/ACRE (.05 LBS/1000 SQ. FT.) OF WEEPING LOVEGRASS. DURING THE PERIOD OF OCTOBER 16 THRU FEBRUARY 28, PROTECT SITE BY:
 OPTION 1: TWO TONS PER ACRE OF WELL-ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING.
 OPTION 2: USE SO2
 OPTION 3: SEED WITH 60 LBS/ACRE KENTUCKY 30 TALL FESCUE AND MULCH WITH 2 TONS/ACRE WELL ANCHORED STRAW.
 MULCHING: APPLY 1-1/2 TO 2 TONS PER ACRE (70 TO 90 LBS/1000 SQ. FT.) OF UNROTTED SMALL GRASS 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 SLOPE 8 FEET OR HIGHER, USE 348 GALLONS PER ACRE (8 GAL/1000 SQ. FT.) FOR ANCHORING.
 MAINTENANCE: INSPECT ALL SEEDING AREAS AND MAKE NEEDED REPAIRS, REPLACEMENTS AND RESEEDINGS.

TEMPORARY SEEDING NOTES

APPLY TO GRADED OR CLEARED AREAS LIKELY TO BE RE-DISTURBED WHERE A SHORT-TERM VEGETATIVE COVER IS NEEDED. SEEDBED PREPARATION: LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISKING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING, IF NOT PREVIOUSLY LOOSENED. SOIL AMENDMENTS: APPLY 600 LBS/ACRE 10-10-10 FERTILIZER (14 LBS/1000 SQ. FT.).
 SEEDING: FOR PERIODS MARCH 1 THRU APRIL 30 AND FROM AUGUST 15 THRU OCTOBER 15, SEED WITH 2-1/2 BUSHEL PER ACRE OF ANNUAL RYE (3.2 LBS/1000 SQ. FT.). FOR THE PERIOD MAY 1 - - AUGUST 14, SEED WITH 3 LBS/ACRE OF WEEPING LOVEGRASS (.07 LBS/1000 SQ. FT.). FOR THE PERIOD NOVEMBER 15 - - FEBRUARY 28, PROTECT SITE BY APPLYING 2 TONS/ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING, OR USE SO2.
 MULCHING: APPLY 1-1/2 TO 2 TONS/ACRE (70 TO 90 LBS/1000 SQ. FT.) OF UNROTTED WEEP-FREE, SMALL GRASS STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 218 GAL. PER ACRE (5 GAL/1000 SQ. FT.) OF EMULSIFIED ASPHALT ON FLAT AREAS, ON SLOPE 8 FT. OR HIGHER, USE 348 GAL. PER ACRE (8 GAL/1000 SQ. FT.) FOR ANCHORING.
 REFER TO THE 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR ADDITIONAL RATES AND METHODS NOT COVERED.

21.0 STANDARDS AND SPECIFICATIONS FOR TOPSOIL

DEFINITION: PLACEMENT OF TOPSOIL OVER A PREPARED SUBSOIL PRIOR TO ESTABLISHMENT OF PERMANENT VEGETATION.
PURPOSE: TO PROVIDE A SUITABLE SOIL MEDIUM FOR VEGETATIVE GROWTH. SOILS OF CONCERN HAVE LOW MOISTURE CONTENT, LOW NUTRIENT LEVELS, LOW PH MATERIALS TOXIC TO PLANTS, AND/OR UNACCEPTABLE SOIL GRADATION.
CONDITIONS WHERE PRACTICE APPLIES:
 1. THIS PRACTICE IS LIMITED TO AREAS HAVING 2:1 OR FLATTER SLOPES.
 2. THE TEXTURE OF THE EXPOSED SUBSOIL (PARTIAL TREATMENT IS NOT ALLOWED FOR VEGETATIVE GROWTH).
 3. THE SOIL MATERIAL IS SO SHALLOW THAT THE ROOTING ZONE IS NOT DEEP ENOUGH TO SUPPORT PLANTS OR FURNISH CONTINUING SUPPLIES OF MOISTURE AND PLANT NUTRIENTS.
 4. THE SUBSOIL IS SO ACIDIC THAT TREATMENT WITH LIMESTONE IS NOT FEASIBLE.
II. FOR THE PURPOSE OF THESE STANDARDS AND SPECIFICATIONS, AREAS HAVING SLOPES STEEPER THAN 2:1 SHALL HAVE THE APPROPRIATE STABILIZATION SHOWN ON THE PLANS.
CONSTRUCTION AND MATERIAL SPECIFICATIONS:
 1. TOPSOIL OBTAINED FROM THE EXISTING SITE MAY BE USED PROVIDED THAT IT MEETS THE STANDARDS AS SET FORTH IN THESE SPECIFICATIONS. TYPICALLY, THE DEPTH OF TOPSOIL TO BE SALVAGED FOR A GIVEN SOIL TYPE CAN BE FOUND IN THE REPRESENTATIVE SOIL PROFILE SECTION IN THE SOIL SURVEY PUBLISHED BY USDA-SCS. SOIL TO BE SALVAGED WITH MARYLAND AGRICULTURAL EXPERIMENT STATION.
 2. TOPSOIL SPECIFICATIONS - SOIL TO BE USED AS TOPSOIL MUST MEET THE FOLLOWING:
 A. TOPSOIL SHALL BE A LOAM, SANDY LOAM, CLAY LOAM, SILT LOAM, SANDY CLAY LOAM, LOAMY SAND, OTHER TYPES MAY BE USED IF RECOMMENDED BY AN AGRONOMIST OR A SOIL SCIENTIST AND APPROVED BY THE APPROPRIATE APPROVAL AUTHORITY. REGARDLESS, TOPSOIL SHALL NOT BE A MIXTURE OF CONTRASTING TEXTURED SUBSOILS AND SHALL CONTAIN LESS THAN 5% BY VOLUME OF CONTRASTING TEXTURED SUBSOILS, GRAVEL, STICKS, ROOTS, TRASH, OR OTHER FOREIGN MATERIALS.
 B. TOPSOIL SHALL BE FREE OF PLANTS OR PLANT PARTS SUCH AS BERBERIS CRISPA, QUERCUS JONONIFOLIA, NUTSHELL, POISON IVY, THISTLE, OR OTHERS AS SPECIFIED.
 C. TOPSOIL SHALL BE FREED OF ALL COMPOUNDS OF HEAVY METALS, AND HEAVY METALS SHALL BE SPREAD AT THE RATE OF 4-9 TONS/ACRE (200-900 POUNDS PER 1,000 SQUARE FEET) PRIOR TO THE PLACEMENT OF TOPSOIL. LINE SHALL BE DISTRIBUTED UNIFORMITY OR DESIGNATED AREAS AND WORKED INTO THE SOIL IN CONNECTION WITH TILLAGE OPERATIONS AS DESCRIBED IN THE FOLLOWING PROCEDURES:
 III. FOR SITES HAVING DISTURBED AREAS UNDER 5 ACRES:
 1. PLACE TOPSOIL (IF REQUIRED) AND APPLY SOIL AMENDMENTS AS SPECIFIED IN 20.0 VEGETATIVE STABILIZATION - SECTION I - VEGETATIVE STABILIZATION METHODS AND MATERIALS.
 NOTE: TOPSOIL SUBSTITUTES OR AMENDMENTS, AS RECOMMENDED BY A QUALIFIED AGRONOMIST OR SOIL SCIENTIST AND BY THE APPROPRIATE APPROVAL AUTHORITY, MAY BE USED IN LIEU OF NATURAL TOPSOIL.
 II. PLACE TOPSOIL (IF REQUIRED) AND APPLY SOIL AMENDMENTS AS SPECIFIED IN 20.0 VEGETATIVE STABILIZATION - SECTION I - VEGETATIVE STABILIZATION METHODS AND MATERIALS.

LANDSCAPE SURETY NOTE

THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH SECTION 16.124 OF THE HOWARD COUNTY CODE AND LANDSCAPE MANUAL WITH 3 SHADE TREES PROVIDED WITH LANDSCAPE SURETY IN THE AMOUNT OF \$900.00 WITH THE BUILDER'S GRADING PERMIT FOR WITH THE DPW DEVELOPER'S AGREEMENT, WHICHEVER ONE IS APPLICABLE.

SEQUENCE OF CONSTRUCTION

- OBTAIN HOWARD COUNTY GRADING PERMIT.
- NOTIFY HOWARD COUNTY AT LEAST 48 HOURS PRIOR TO START OF CONSTRUCTION. (2 DAYS)
- CONDUCT A PRE-CONSTRUCTION MEETING WITH THE SEDIMENT CONTROL INSPECTOR PRIOR TO ANY LAND DISTURBANCE. (1 WEEK)
- INSTALL STABILIZED CONSTRUCTION ENTRANCE WITH MOUNTABLE BERM. (1 DAY)
- INSTALL ALL SUPER SILT FENCE.
- WITH APPROVAL OF SEDIMENT CONTROL INSPECTOR, REMOVE EXISTING ASPHALT AND C&G. (2 DAYS)
- BEGIN STORM DRAIN CONSTRUCTION. (1 WEEK)
- BEGIN BUILDING CONSTRUCTION. (8 WEEKS)
- INSTALL ALL ON-SITE CURB AND GUTTER. (1 WEEK)
- INSTALL ON-SITE PAVING BASE COURSE (1 WEEK)
- COMPLETE BUILDING CONSTRUCTION. (4 WEEKS)
- INSTALL ALL PAVING. (2 WEEKS)
- FINE GRADE AND STABILIZE ALL AREAS OF PARCEL INCLUDING ANY EXPOSED BATH AREAS OUTSIDE THE LOD. REMOVE ALL TRASH JUNK AND DEBRIS FROM ENTIRE PARCEL. (CONCRETE)
- REMOVE ALL REMAINING SEDIMENT CONTROL MEASURES AFTER RECEIVING APPROVAL FROM THE SEDIMENT CONTROL INSPECTOR. (1 WEEKS)
- INSTALL SITE LANDSCAPING. (2 WEEKS)

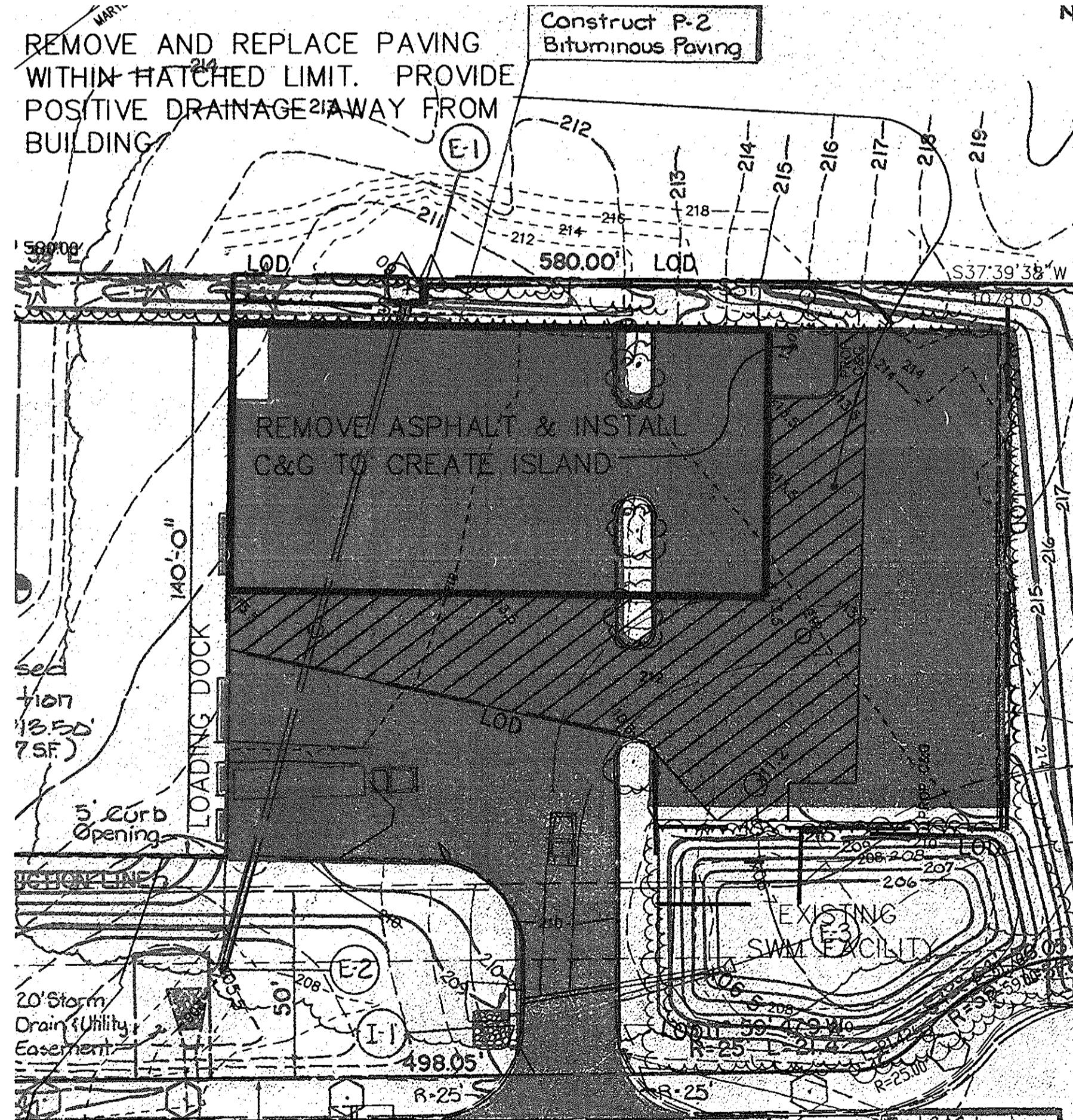
PIPE SCHEDULE

SIZE	TYPE	LENGTH
12"	TRENCH DRAIN	40 LF
18"	HDPE	416 LF
12"	PVC	28 LF

STRUCTURE SCHEDULE

NO.	TYPE	LOCATION	TOP ELEV.	INV. IN	INV. OUT	REMARKS
HW-1	TYPE 'E' HEADWALL MSHA		211.75	209.50	MD 365.01	
MH-1	PRECAST 48" MANHOLE		212.8	206.42	G-5.12	
MH-2	PRECAST 48" MANHOLE		213.0	207.88	G 5.12	
MH-3	PRECAST 48" MANHOLE		215.0	208.75	G 5.12	
MH-4	STORMCEPTOR		211.2	207.00	206.90	STC 900
HW-2	TYPE 'A' HEADWALL		208.37	206.7	SD 5.21	

NOTE: 1. TOP ELEVATIONS ARE TO CENTER OF THE MANHOLE TOP, AND TOP OF HEADWALL.



PAVING PLAN
 SCALE: 1"=30'

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

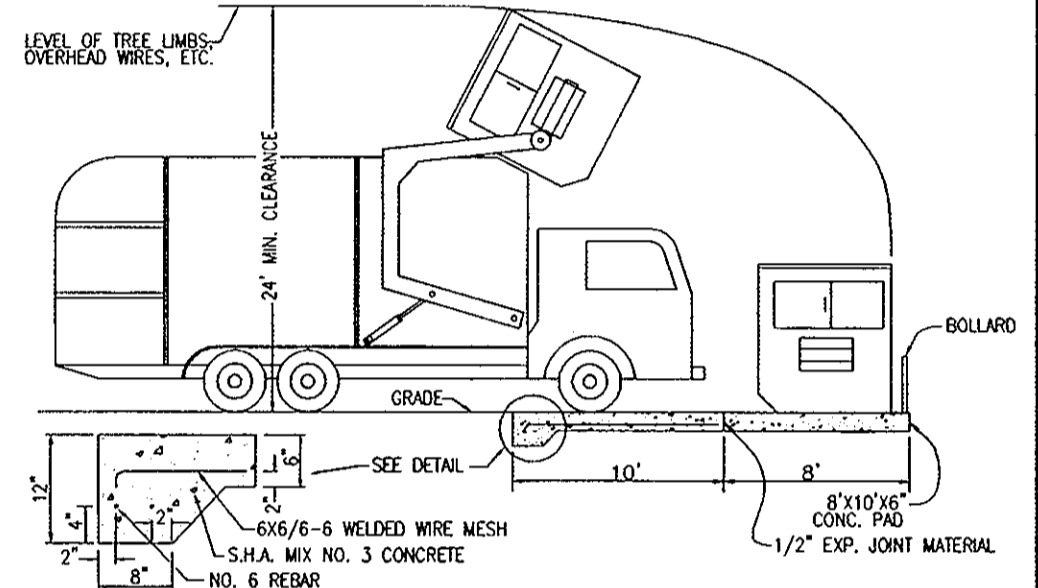
3/13/09
 CHIEF, DEVELOPMENT ENGINEERING DIVISION

3/17/09
 CHIEF, DIVISION OF LAND DEVELOPMENT

3/13/09
 DIRECTOR

SEDIMENT CONTROL NOTES

- A MINIMUM OF 48 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY DEPARTMENT OF INSPECTION, LICENSE AND PERMITS SEDIMENT CONTROL DIVISION PRIOR TO THE START OF ANY CONSTRUCTION (410-313-1855).
- ALL VEGETATION AND STRUCTURAL PRACTICES ARE TO BE INSTALLED ACCORDING TO THE PROVISIONS OF THIS PLAN AND ARE TO BE IN CONFORMANCE WITH THE 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL AND REVISIONS THEREOF.
- DEFINING INITIAL SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN: (A) 7 CALENDAR DAYS FOR ALL PERMETER SEDIMENT CONTROL STRUCTURES, DIKES, PERMETER 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 PERMETER IN ACCORDANCE WITH VOL. 1, CHAPTER 7, 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 PERMANENT SEEDING, SOIL TEMPORARY SEEDING, AND MULCHING (SEE C). TEMPORARY STABILIZATION WITH MULCH ALONE SHALL 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 PERMITS FOR THEIR REMOVAL HAS BEEN OBTAINED FROM THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
- SITE ANALYSIS:
 7.1. AREA
 TOTAL AREA: 2.80 ACRES
 AREA DISTURBED: 0.85 ACRES
 AREA TO BE REVEGETATED OR PAVED: 0.15 ACRES
 AREA TO BE TEMPORARILY STABILIZED:
 TOTAL CUT:
 TOTAL FILL:
 WASTE/BORROW LOCATION: N/A
 7.2. ANY SEDIMENT CONTROL PRACTICE WHICH IS DISTURBED BY GRADING ACTIVITY FOR PLACEMENT OF UTILITIES MUST BE REPAIRED ON THE SAME DAY OF DISTURBANCE.
 7.3. ADDITIONAL SEDIMENT CONTROLS MUST BE PROVIDED, IF DEEMED NECESSARY BY THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
 7.4. ON ALL SITES WITH DISTURBED AREAS IN EXCESS OF 2 ACRES, APPROVAL OF THE INSPECTION AGENCY SHALL BE REQUESTED UPON COMPLETION OF INSTALLATION OF PERMETER EROSION AND SEDIMENT CONTROLS, BUT BEFORE PROCEEDING WITH ANY OTHER EARTH DISTURBANCE OR GRADING. OTHER BUILDING OR GRADING APPROVALS MAY NOT BE AUTHORIZED UNTIL THIS INITIAL APPROVAL BY THE INSPECTION AGENCY IS MADE.
 7.5. TRENCHES FOR THE CONSTRUCTION OF UTILITIES IS LIMITED TO THREE PIPE LENGTHS OR THAT WHICH SHALL BE BACK-FILLED AND STABILIZED WITHIN ONE WORKING DAY, WHICHEVER IS SHORTER.
 7.6. TO BE DETERMINED BY CONTRACTOR, WITH PRE-APPROVAL OF THE SEDIMENT CONTROL INSPECTOR WITH AN APPROVED AND ACTIVE GRADING PERMIT.



SOLID WASTE SERVICE PAD
 HOWARD COUNTY STD. R.8.03
 NOT TO SCALE

- OPERATION AND MAINTENANCE SCHEDULE FOR PRIVATELY OWNED AND MAINTAINED 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 Plexiglas tube ("sludge judge") to extract a water column sample. When the sediment depths exceed the level specified in Table 6 of the Stormceptor Technical Manual, the unit must be cleaned.
 - The Stormceptor water quality structure shall be checked and cleaned immediately after petroleum spills. The owner shall 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 cleaning and disposal of the removed materials and liquid must be followed by the owner.
 - The inlet and outlet pipes shall be checked for any obstructions at least once every six months. If obstructions are found the owner shall have them removed. Structural parts of the Stormceptor unit shall be repaired as needed.
 - The owner shall retain and make the Stormceptor Inspection/Monitoring Forms available the Howard County officials upon their request.

REV 10-10-08 - 10,000 SOFT OFFICE
 2500 SOFT ADDITION
 SD REALIGNMENT

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

John R. Blunt 3-12-09
 HOWARD S.C.D. DATE

BY THE ENGINEER:
[Signature] 3/5/09
 SIGNATURE OF ENGINEER DATE

BY THE DEVELOPER:
[Signature] 3-5-09
 SIGNATURE OF DEVELOPER DATE

*I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PERIODICAL AND WORKABLE PLAN BASED ON PERSONAL KNOWLEDGE OF THE SITE CONDITIONS, AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD COUNTY CONSERVATION DISTRICT.

*I CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN FOR SEDIMENT AND EROSION CONTROL AND THAT ALL 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 ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD COUNTY CONSERVATION DISTRICT.

REVISED SITE DEVELOPMENT PLAN

C-W & COMPANY
 LOT A-1

TAX MAP 48 GRID 14
 6TH ELECTION DISTRICT

PARCEL 68
 HOWARD COUNTY, MARYLAND

ROBERT H. VOGEL ENGINEERING, INC.
 ENGINEERS • SURVEYORS • PLANNERS

8407 MAIN STREET
 ELLICOTT CITY, MD 21043
 TEL: 410.461.7666
 FAX: 410.461.8961

DESIGN BY: JAR
 DRAWN BY: JAR
 CHECKED BY: RHV
 DATE: Feb. 27, 2009
 SCALE: AS SHOWN
 W.O. NO.: 08-26
 5 SHEET OF 5

STATE OF MARYLAND PROFESSIONAL ENGINEER
 JAMES A. RUFF, PE No.21774