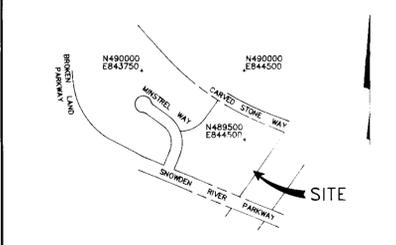


- GENERAL NOTES:**
- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE HOWARD COUNTY DESIGN MANUAL, VOLUME IV, "STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION."
 - THE LOCATION AND ELEVATIONS OF EXISTING UTILITIES SHOWN ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY THE EXISTENCE, LOCATION, AND DEPTH OF EXISTING UTILITIES IN THE WORK AREA AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES PRIOR TO BEGINNING WORK.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING THE ENGINEER, JOHN R. HEINRICHS, P.E., AT (301) 247-4036, IN THE EVENT OF ANY DISCREPANCIES ON THE PLANS OR IN THE RELATIONSHIPS OF FINISHED GRADES TO EXISTING GRADES PRIOR TO BEGINNING WORK.
 - THE CONTRACTOR SHALL NOTE THAT IN THE CASE OF A DISCREPANCY BETWEEN THE SCALED AND THE FIGURED DIMENSIONS SHOWN ON THESE PLANS, THE FIGURED DIMENSIONS SHALL GOVERN.
 - IT SHALL BE DISTINCTLY UNDERSTOOD THAT FAILURE TO MENTION SPECIFICALLY WORK THAT WOULD NORMALLY BE REQUIRED TO COMPLETE THE PROJECT SHALL NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY TO PERFORM SUCH WORK.
 - THE CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITIES OR AGENCIES AT LEAST FIVE (5) DAYS PRIOR TO STARTING WORK.

MSS UTILITY	559-0100
CAF TELEPHONE CO.	725-9878
HOWARD COUNTY BUREAU OF UTILITIES	313-2385
AT&T CABLE LOCATION DIVISION	383-3553
BONE CO.	885-0123
HOWARD CO. CONSTRUCTION Insp. DIV.	792-7272
 - APPROXIMATELY 2/3 OF THE SITE IS COVERED WITH A SECONDARY GROWTH OF LOCUST AND POPLAR TREES. THESE TREES VARY IN SIZE UP TO 12" CALIPER. THE CONTRACTOR SHALL ATTEMPT TO MAINTAIN THE EXISTING COVER, TO THE EXTENT POSSIBLE, WITHIN A STRIP +/- 20' FROM THE SOUTH R/W LINE OF CARVED STONE WAY. NO ADDITIONAL PLANTING IS ANTICIPATED.
 - GRADING SHOWN INDICATES SUBGRADE ELEVATIONS FINAL ELEVATION MAY BE HIGHER DUE TO PLACEMENT OF TOPSOIL.
 - ALL ROADWAY DIMENSIONS ARE TO FACE OF CURB.
 - NO UPLAND WETLANDS WERE IDENTIFIED ON THE SITE DURING SITE VISIT BY EXPLORATION RESEARCH INC. ELICOTT CITY, MD.
 - SITE TABULATION

AREA OF PARCEL:	7.3 AC.
PRESENT ZONING:	NEW TOWN / COMMERCIAL
SEE - PLAT 9435	F-70-25



VICINITY MAP
SCALE: 1"=600'

7-11-91	1	REVISE CONTOURS TO REFLECT TOPSOIL REMOVAL
Date	No	Revision Description

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

[Signature] 9-2-91
DIRECTOR

[Signature] 7-3-91
DIRECTOR

APPROVED: HOWARD COUNTY DEPT OF PLANNING AND ZONING

[Signature] 9/23/91
DIRECTOR

[Signature] 9/16/91
CHIEF-DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT

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

[Signature] 9-13-91
COUNTY HEALTH OFFICER

BY THE ENGINEER:
"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."

[Signature] 8/12/91
SIGNATURE OF ENGINEER

BY THE DEVELOPER:
"I ME CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT."

[Signature] 8/12/91
SIGNATURE OF DEVELOPER

REVIEWED FOR HOWARD S.C.D. & MEETS TECHNICAL REQUIREMENTS

[Signature] 8/21/91
S. SOIL CONSERVATION SERVICE

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

[Signature] 8/20/91
HOWARD S.C.D.

THE HOWARD RESEARCH AND DEVELOPMENT CORPORATION
THE ROUSE BUILDING
10275 LITTLE PATUXENT PARKWAY
COLUMBIA, MARYLAND 21044

JOHN R. HEINRICHS, P.E.
CONSULTING ENGINEER
5124 S. ROLLING ROAD
BALTIMORE, MARYLAND 21227
(301) 247-4036 FAX 247-9397

AREA VILLAGE OF OWEN BROWN
SECTION 2 AREA 2
TAX MAP 42 PARCEL 410
6th ELECTION DISTRICT HOWARD COUNTY, MARYLAND

TITLE GRADING AND SEDIMENT CONTROL PLAN
PARCEL A-29 & A-30

Des By J.R.H. Scale 1"= 50' Proj No
Dwn By J.R.H. Date AUGUST,1991 DRAWING NO
Chk By J.R.H. Approved 1 OF 2

- LEGEND**
- EX. CONTOURS
 - PROPOSED CONTOURS
 - STABILIZED CONST. ENTRANCE
 - S SILT FENCE
 - A-1 EARTH DIKE
 - TEMPORARY SWALES TO BE REPLACED W/EARTH DIKE DURING CONSTRUCTION
 - IP INLET PROTECTION

PLANNING BOARD APPROVAL

APPROVED
PLANNING BOARD
OF HOWARD COUNTY

DATE 8-6-91

8/12/91
Date

[Signature]
JOHN R. HEINRICHS
Professional Engr. No. 14920

STD. SEDIMENT BASIN 1 DATA

EMBANKMENT ELEV.	336.0
BOTTOM ELEV.	327.0
CLEAN OUT ELEV.	331.0
RISER CREST ELEV.	333.0
DRAINAGE AREA	6.6 AC.
VOLUME REQ'D	11,880 CU.FL.
VOLUME PROVIDED	14,500 CU.FL.
EMERGENCY SPILLWAY WIDTH	12'
EMERGENCY SPILLWAY CREST	334.0
BOTTOM DIMENSIONS	SEE PLAN
DEPTH FROM RISER CREST	6'
DEPTH FROM EMBANKMENT	9'
15" BARREL INV. IN	327.0
15" BARREL INV. OUT	323.2

ADDRESS CHART

LOT NUMBER	STREET ADDRESS
7100 BLOCK OF MINSTREL WAY	

SUBDIVISION NAME	SECT./AREA	LOT/PARCEL NO.
VILLAGE OF OWEN BROWN	2/2	A-29 & A-30
PLAT NO. BLOCK NO. ZONE	TAX/ZONE-	ELECT. DIST.CENSUS TR
9435 3 NEW TOWN COMMERCIAL	42	6 6061.03
WATER CODE	SEWER CODE	
E-12	5272200	

- SEQUENCE OF CONSTRUCTION**
- OBTAIN GRADING PERMIT.
 - NOTIFY HOWARD COUNTY DPW, SEDIMENT CONTROL INSPECTOR AT LEAST 24 HOURS BEFORE START OF ANY WORK.
 - STAKE OUT LIMIT OF CONSTRUCTION AND LOCATION OF SEDIMENT CONTROL DEVICES.
 - INSTALL SILT FENCE & SCE.
 - CLEAR & GRUB FOR REMAINING SEDIMENT CONTROL DEVICES & PROPOSED STORM DRAINS.
 - CONSTRUCT REMAINING SEDIMENT CONTROL DEVICES.
 - PERFORM SITE GRADING AND SEDIMENT CONTROL MAINTENANCE. STABILIZE DISTURBED AREAS, AS SOON AS POSSIBLE AFTER FINAL GRADE IS ACHIEVED. SEE SEEDING NOTES.
 - WITH APPROVAL OF HOWARD COUNTY SOIL CONSERVATION INSPECTOR, REMOVE ALL SEDIMENT CONTROL DEVICES AND COMPLETE PERMANENT STABILIZATION.

SEDIMENT CONTROL NOTES

- 1) 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. (1992-2417)
- 2) ALL VEGETATIVE AND STRUCTURAL PRACTICES ARE TO BE INSTALLED ACCORDING TO THE PROVISIONS OF THIS PLAN AND ARE TO BE IN CONFORMANCE WITH THE 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.
- 3) FOLLOWING INITIAL SOIL DISTURBANCE OR RESTORATION, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN A 7 CALENDAR DAYS FOR ALL PERMITS. SEDIMENT CONTROL STRUCTURES SHALL BE COMPLETED WITHIN 14 DAYS FOR ALL OTHER DISTURBANCES OR GRADING ON THE PROJECT SITE.
- 4) ALL SEDIMENT TRAPS/BAFFLES MUST BE FENCED AND WARNING SIGNS POSTED AROUND THEIR PERIMETER IN ACCORDANCE WITH VOL. 2, OF THE HOWARD COUNTY DESIGN MANUAL, STORM DRAINAGE.
- 5) ALL DISTURBED AREAS MUST BE STABILIZED WITHIN THE TIME PERIOD SPECIFIED ABOVE IN ACCORDANCE WITH THE 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR PERMANENT SEDIMENTS (SEC. 31) SOO (SEC. 34), TEMPORARY SEDIMENTS (SEC. 30) AND MULCHING (SEC. 33). TEMPORARY STABILIZATION WITH MULCH ALONE CAN ONLY BE DONE WHEN RECOMMENDED SEDIMENT DATES DO NOT ALLOW FOR PROPER GERMINATION AND ESTABLISHMENT OF GRASSES.
- 6) ALL SEDIMENT CONTROL STRUCTURES ARE TO REMAIN IN PLACE AND ARE TO BE MAINTAINED IN OPERATIVE CONDITION UNTIL PERMITS FOR THEM BECOME VOID. SIGNS OBTAINED FROM THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
- 7) SITE ANALYSIS:

TOTAL AREA OF SITE	2.3 ACRES
AREA TO BE RESTORED OR PAVED	2.2 ACRES
AREA TO BE VEGETATIVELY STABILIZED	0.1 ACRES
TOTAL CUT	11,000 CU YDS
TOTAL FILL	N/A
OFFSITE WASTE/BORROW AREA LOCATION	N/A
- 8) ANY SEDIMENT CONTROL PRACTICE WHICH IS DISTURBED BY GRADING ACTIVITY FOR PLACEMENT OF UTILITIES MUST BE REPAIRED ON THE SAME DAY OF DISTURBANCE.
- 9) ADDITIONAL SEDIMENT CONTROLS MUST BE PROVIDED, IF DEEMED NECESSARY BY THE HOWARD COUNTY DOW SEDIMENT CONTROL INSPECTOR.
- 10) ON ALL SITES WITH DISTURBED AREAS IN EXCESS OF 3 ACRES, APPROVAL OF THE INSPECTION AGENCY SHALL BE REQUESTED UPON COMPLETION OF INSTALLATION OF PERMANENT SEDIMENT CONTROL, BUT BEFORE PROCEEDING WITH ANY OTHER EARTH DISTURBANCE OR GRADING. OTHER BUILDING OR GRADING INSPECTION APPROVALS MAY NOT BE AUTHORIZED UNTIL THIS INITIAL APPROVAL BY THE INSPECTION AGENCY IS MADE.

STANDARD AND SPECIFICATIONS FOR VEGETATIVE STABILIZATION WITH SOO SPECIFICATIONS

1. CLASS OF TURFLESS SOO SHALL BE MARYLAND OR VIRGINIA STATE CERTIFIED, OR MARYLAND OR VIRGINIA STATE APPROVED SOO.
2. SOO SHALL BE MACHINE CUT AT A UNIFORM SOO THICKNESS OF 3/4 INCH, PLUS OR MINUS 1/4 INCH AT THE TIME OF CUTTING. MEASUREMENT FOR THICKNESS SHALL EXCLUDE TOP GROWTH AND THATCH.
3. STANDARD SIZE SECTIONS OF SOO SHALL BE STRONG ENOUGH TO SUPPORT THEIR OWN WEIGHT AND RETAIN THEIR SIZE AND SHAPE WHEN SUSPENDED VERTICALLY WITH A FIRM GRASP ON THE UPPER 10 PERCENT OF THE SECTION.
4. INDIVIDUAL PIECES OF SOO SHALL BE CUT TO THE SUPPLIERS WIDTH AND LENGTH. MAXIMUM ALLOWABLE DEVIATION FROM STANDARD WIDTHS AND LENGTHS SHALL BE 5 PERCENT. BROKEN PADS AND TORN OR UNEVEN EDGES WILL NOT BE ACCEPTABLE.
5. SOO SHALL NOT BE HARVESTED OR TRANSPORTED WHEN MOISTURE CONTENT (EXCESSIVELY DRY OR WET) MAY ADVERSELY AFFECT ITS SURVIVAL.
6. SOO SHALL BE HARVESTED, DELIVERED AND INSTALLED WITHIN A PERIOD OF 36 HOURS. SOO NOT TRANSPORTED WITHIN THIS PERIOD SHALL BE INSPECTED AND APPROVED PRIOR TO ITS INSTALLATION.

1. **SITE PREPARATION:** FERTILIZER AND LIME APPLICATION RATES SHALL BE DETERMINED BY SOIL TESTS. UNDER UNUSUAL CIRCUMSTANCES WHERE THERE IS INSUFFICIENT TIME FOR A COMPLETE SOIL TEST, FERTILIZER AND LIME MATERIALS MAY BE APPLIED IN AMOUNTS SHOWN UNDER B. BELOW.
 - A. PRIOR TO SOODING, 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.
 - B. WHERE THE SOIL IS ACID OR COMPOSED OF HEAVY CLAYS, GROUND LIMESTONE SHALL BE SPREAD AT THE RATE OF 2 LBS/ACRE AND 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.
 - C. ALL AREAS RECEIVING SOO SHALL BE UNIFORMLY GRADED. HAND-PAVED LAMIN SHALL BE SCAMPED PRIOR TO PLACEMENT OF SOO.

2. **SOO INSTALLATION:**
 - A. DURING PERIODS OF EXCESSIVELY HIGH TEMPERATURE THE SOO SHALL BE LIGHTLY IRRIGATED IMMEDIATELY PRIOR TO LAYING THE SOO.
 - B. THE FIRST ROW OF SOO SHALL BE LAIN IN A STRAIGHT LINE WITH SUBSEQUENT ROWS PLACED PARALLEL TO AND TIGHTLY NEEDED AGAINST EACH OTHER. LATERAL JOINTS SHALL BE STAGGERED TO PROMOTE MORE UNIFORM GROWTH AND STRENGTH. INSURE THAT SOO IS NOT OVERLAPPED AND THAT ALL JOINTS ARE BUTTED TIGHT IN ORDER TO PREVENT WIND WHICH WOULD CAUSE AIR DRYING OF THE ROOTS.
 - C. ON SLOPING AREAS WHERE EROSION MAY BE A PROBLEM, SOO SHALL BE LAID WITH THE LONG EDGES PARALLEL TO THE CONTOUR AND WITH STAGGERED JOINTS. SECURE THE SOO BY TAMPING AND PEGGING OR OTHER APPROVED METHODS.
 - D. AS SOODING IS COMPLETED IN ANY ONE SECTION, THE ENTIRE AREA SHALL BE ROLLED OR TAMPED TO INSURE SOLID CONTACT OF ROOTS WITH THE SOIL SURFACE. SOO SHALL BE WATERED IMMEDIATELY AFTER ROLLING OR TAMPING UNITS. THE UNDERSIDE OF THE NEW SOO PAD AND SOIL SURFACE BELOW THE SOO ARE THOROUGHLY WET. THE OPERATIONS OF LAYING, TAMPING AND IRRIGATING FOR ANY PIECE OF SOO SHALL BE COMPLETED WITHIN EIGHT HOURS.

3. **SOO MAINTENANCE:**
 - A. 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 3 INCHES. WATERING SHOULD BE DONE DURING THE HEAT OF THE DAY TO PREVENT WIND.
 - B. AFTER THE FIRST WEEK, SOO SHALL BE WATERED AS NECESSARY TO MAINTAIN ADEQUATE MOISTURE AND WEED ESTABLISHMENT.
 - C. FIRST MOWING SHOULD NOT BE ATTEMPTED UNTIL SOO 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.
 - D. MAINTENANCE OF ESTABLISHED SOO SHOULD FOLLOW SPECIFICATIONS OUTLINED IN TABLE 50-1.

PERMANENT SEEDING NOTES

APPLY TO GRADED OR CLEARED AREAS NOT SUBJECT TO IMMEDIATE FURTHER DISTURBANCE WHERE A PERMANENT LONG-LIVED VEGETATIVE COVER IS NEEDED.

SEEDING PREPARATION: LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISING 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) PREFERRED -- APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE (82 LBS/1000 SQ FT) AND 800 LBS PER ACRE 10-10-10 FERTILIZER (14 LBS/1000 SQ FT) BEFORE SEEDING. NARROW OR DISC INTO UPPER THREE INCHES OF SOIL.
- 2) ACCEPTABLE -- APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE (82 LBS/1000 SQ FT) AND 1000 LBS PER ACRE 10-10-10 FERTILIZER (23 LBS/1000 SQ FT) BEFORE SEEDING. NARROW OR DISC INTO UPPER THREE INCHES OF SOIL.

SEEDING: FOR THE PERIODS MARCH 1 THRU APRIL 30 AND FROM OCTOBER 15 THRU NOVEMBER 15, SEED WITH 80 LBS PER ACRE (1.4 LBS/1000 SQ FT) OF KENTUCKY 31 TALL FESCUE. FOR THE PERIOD MAY 1 THRU JULY 31, SEED WITH 80 LBS PER ACRE OF KENTUCKY 31 TALL FESCUE PER ACRE AND 2 LBS PER ACRE (0.5 LBS/1000 SQ FT) OF BERMUDA LOWGROWER. DURING THE PERIOD OF OCTOBER 15 THRU FEBRUARY 28, PROJECT SITE BY: OPTION (1) 2 TONS PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING. OPTION (2) SEED WITH 80 LBS/ACRE KENTUCKY 31 TALL FESCUE AND MULCH WITH 3 TONS/ACRE WELL ANCHORED STRAW.

MULCHING: APPLY 1 1/2 TO 2 TONS PER ACRE (10 TO 20 LBS/1000 SQ FT) OF UNROTTED SMALL GRASS STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 216 GALLONS PER ACRE (9 GAL/1000 SQ FT) OF ENLARGED 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 SEEDING AREAS AND MAKE NEEDED REPAIRS, REPLACEMENTS AND RESTORATION.

TEMPORARY SEEDING NOTES

APPLY TO GRADED OR CLEARED AREAS LIKELY TO BE RESTORED WITH A SHORT-TERM VEGETATIVE COVER IS NEEDED.

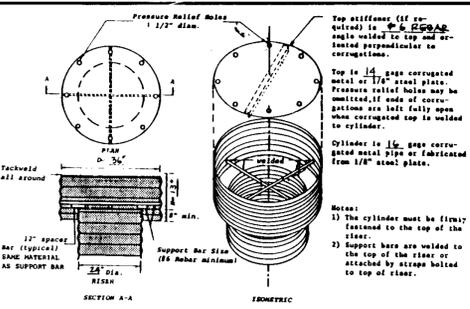
SEEDING PREPARATION: LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING. IF NOT PREVIOUSLY LOOSENED.

SOIL AMENDMENTS: APPLY 80 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 3 1/2 BU/ACRE PER ACRE OF BERMUDA (2.5 LBS/1000 SQ FT). FOR THE PERIOD MAY 1 THRU AUGUST 14, SEED WITH 3 LBS PER ACRE OF BERMUDA LOWGROWER (0.7 LBS/1000 SQ FT). FOR PERIOD NOVEMBER 15 THRU FEBRUARY 28, PROJECT SITE BY: OPTION (1) SEED WITH 80 LBS/ACRE KENTUCKY 31 TALL FESCUE AND MULCH WITH 3 TONS/ACRE WELL ANCHORED STRAW.

MULCHING: APPLY 1 1/2 TO 2 TONS PER ACRE (10 TO 20 LBS/1000 SQ FT) OF UNROTTED SMALL GRASS STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 216 GALLONS PER ACRE (9 GAL/1000 SQ FT) OF ENLARGED ASPHALT ON FLAT AREAS. ON SLOPES 8 FT OR HIGHER, USE 348 GALLONS 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.



CONCENTRIC TRASH RACK AND ANTI-VORTEX DEVICE (See to scale)

Date	No	Revision Description
------	----	----------------------

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

Robert E. Edy 9-3-91
 CHIEF - BUREAU OF ENGINEERING'S
 DATE

James M. Vior 9-3-91
 DIRECTOR
 DATE

APPROVED: HOWARD COUNTY DEPT. OF PLANNING AND ZONING
 DATE

Anna H. Himmah 9-16-91
 CHIEF-DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT
 DATE

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPT.

William J. ... 9-17-91
 COUNTY HEALTH OFFICER
 DATE

BY THE ENGINEER:
 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.

John R. Heinrichs 8/21/91
 SIGNATURE OF ENGINEER
 DATE

BY THE DEVELOPER:
 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 A DEPARTMENT OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT.

John R. Heinrichs 8/21/91
 SIGNATURE OF DEVELOPER
 DATE

REVIEWED FOR HOWARD S.C.D. & MEETS TECHNICAL REQUIREMENTS

John R. Heinrichs 8/21/91
 U.S. SOIL CONSERVATION SERVICE
 DATE

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

John R. Heinrichs 8/21/91
 HOWARD S.C.D.
 DATE

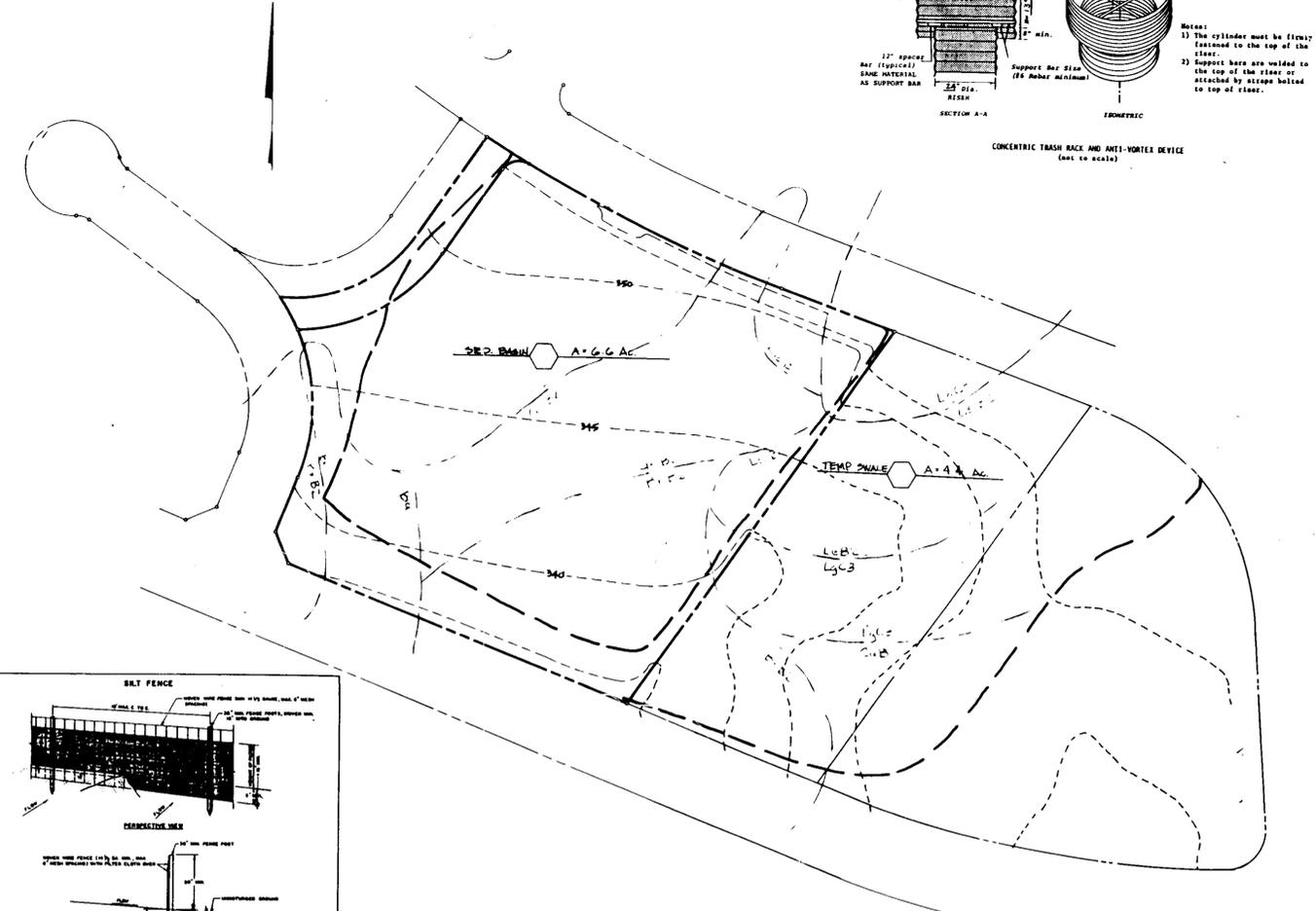
THE HOWARD RESEARCH AND DEVELOPMENT CORPORATION
 THE ROUSE BUILDING
 10275 LITTLE PATUXENT PARKWAY
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JOHN R. HEINRICHS, P.E.
 CONSULTING ENGINEER
 5121 S. ROLLING ROAD
 BALTIMORE, MARYLAND 21227
 (301) 247-4036 FAX 247-9397

AREA VILLAGE OF OWEN BROWN
 SECTION 2 AREA 2
 TAX MAP 42 PARCEL 410
 6th ELECTION DISTRICT HOWARD COUNTY, MARYLAND

TITLE GRADING AND SEDIMENT CONTROL PLAN
 PARCEL A-29 & A-30

Drawn By: J.R.H. Scale: AS SHOWN Proj No:
 Date: AUGUST 1991 Drawing No:
 Check By: J.R.H. Date: Approved 2 OF 2



DRAINAGE AREA MAP
 SCALE: 1" = 100'

