

INDEX OF SHEETS	
SHEET	TITLE
1	MASS GRADING PLAN
2	MASS GRADING PLAN
3	MASS GRADING PLAN
4	SEDIMENT CONTROL NOTES & DETAILS
5	TEMPORARY SWILI CROSS SECTIONS

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT.
Joyce M. Boyd 7-11-90
 COUNTY HEALTH OFFICER DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.
U. J. ... 7.19.90
 DIRECTOR DATE

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS.
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
J. ... 7/2/90
 DIRECTOR DATE

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS.
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
J. ... 7/2/90
 DIRECTOR DATE

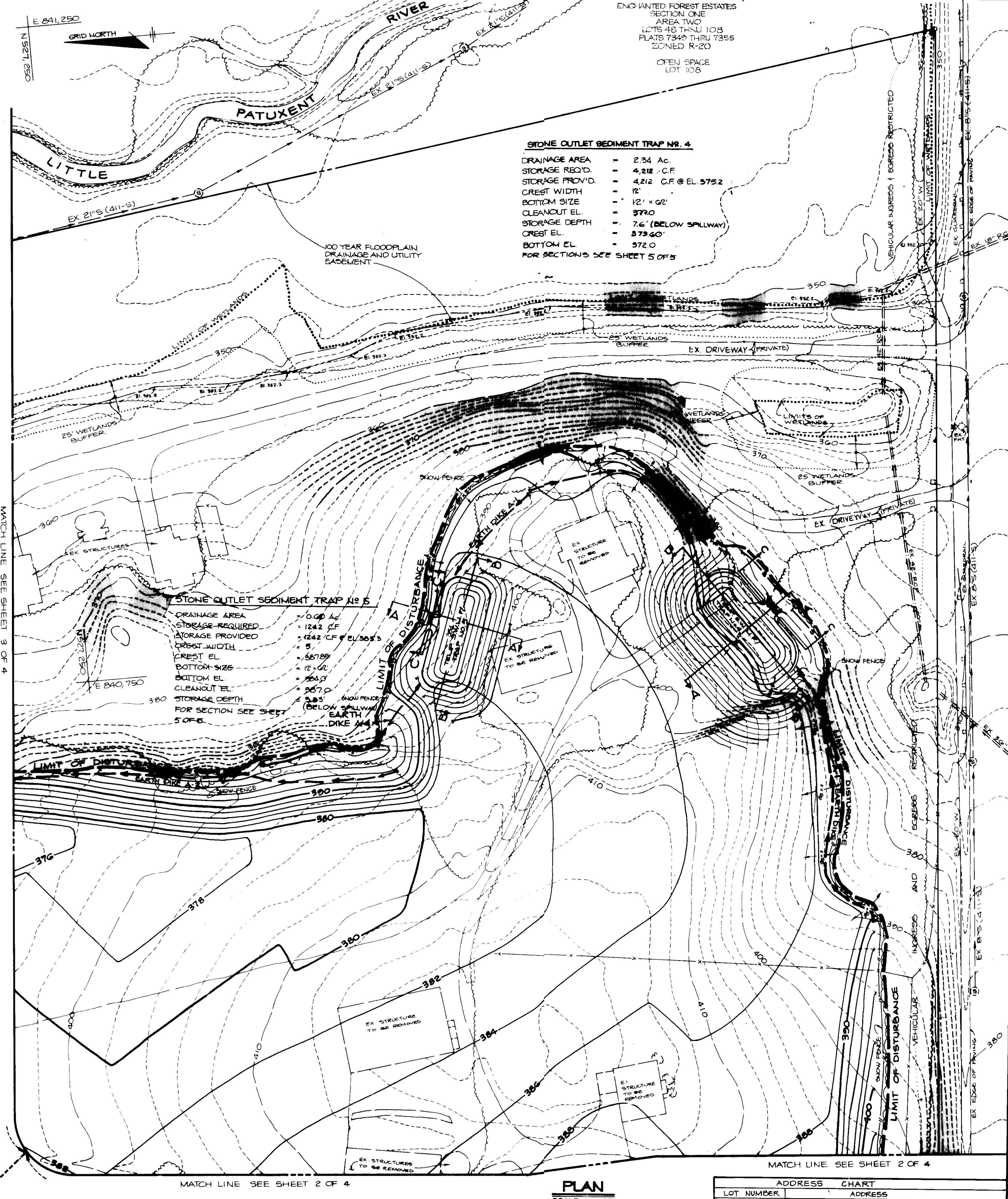
APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS.
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
J. ... 7/2/90
 DIRECTOR DATE

GENERAL NOTES

1. ALL WATER LINES SHALL BE CONSTRUCTED A MINIMUM OF 4" COVER BELOW FINISHED GRADE.
2. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE HOWARD COUNTY DESIGN MANUAL, VOLUME IV, S.F., STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION, PERMITS AND NOTICES.
3. APPROXIMATE LOCATION OF EXISTING UTILITIES ARE SHOWN FROM BEST AVAILABLE INFORMATION. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE EXISTING UTILITIES AND MAINTAIN UNINTERRUPTED SERVICE. ANY DAMAGE INCURRED DUE TO CONTRACTOR'S OPERATION SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTOR'S EXPENSE.
4. THE CONTRACTOR SHALL TEST EXISTING UTILITIES AT LEAST FIVE (5) DAYS BEFORE STARTING WORK SHOWN ON THESE DRAWINGS TO VERIFY THEIR LOCATION AND ELEVATION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY IF LOCATION OF UTILITIES IS OTHER THAN SHOWN.
5. CONTRACTOR TO NOTIFY THE FOLLOWING UTILITIES OR AGENCIES AT LEAST FIVE DAYS BEFORE STARTING WORK SHOWN ON THESE DRAWINGS:
 MISS UTILITY 1-800-237-2777
 D&P TELEPHONE COMPANY 125-9976
 HOWARD COUNTY BUREAU OF UTILITIES 992-2386
 AT&T CABLE LOCATION DIVISION 391-3553
 BALTIMORE GAS & ELECTRIC COMPANY 985-0123
 STATE HIGHWAY ADMINISTRATION 231-5523
 HOWARD COUNTY COMMISSIONER/INSPECTOR SURVEY 792-7272
 DIVISION (24 HOURS NOTICE PRIOR TO COMMENCEMENT OF WORK)
6. ALL INLETS SHALL BE CONSTRUCTED IN ACCORDANCE WITH HOWARD COUNTY STANDARDS.
7. ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS.
8. THE CONTRACTOR SHALL PROVIDE A JOINT IN ALL SINK MARKS WITHIN 2'-0" OF EXTERIOR MANHOLE WALLS.
9. PROFILE STATIONS SHALL BE ADJUSTED AS NECESSARY TO CONFORM TO PLAN DIMENSIONS.
10. NO PIPE SHALL BE LAID UNTIL LINES OF EXCAVATION HAVE BEEN BROUGHT TO SURFACE.
11. TOPO TAKEN FROM AERIAL SURVEY DATED MARCH 1989 BY LUMBERKING COMPANY
12. ALL PLAN DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED.
13. ALL STORM DRAIN PIPE BRIDGING SHALL BE AS SHOWN IN DETAIL 02-03 (FRENCH IN ROCK OR TRENCH IN EARTH AS DETERMINED BY FIELD CONDITIONS) IN VOL. IV OF HOWARD COUNTY DESIGN MANUAL UNLESS OTHERWISE SPECIFIED BY THE ENGINEER OR AS SHOWN ON THE DRAWINGS.
14. THE DEVELOPER IS RESPONSIBLE FOR THE ACQUISITION OF ALL EASEMENTS, RIGHTS AND/OR RIGHTS-OF-WAY THAT MAY BE REQUIRED FOR THE SEDIMENT AND EROSION CONTROL PRACTICES, STORM WATER MANAGEMENT PRACTICES AND THE DISCHARGE OF STORM WATER INTO OR ACROSS ADJACENT OR DOWNSTREAM PROPERTIES INCLUDED IN THIS PLAN. HE IS ALSO RESPONSIBLE FOR THE ACQUISITION OF ALL EASEMENTS, RIGHTS AND/OR WORK ON ADJACENT PROPERTIES INCLUDED IN THIS PLAN.
15. THE OWNER SHALL PROVIDE A SEPARATE AND INDEPENDENT SEWER CONNECTION FOR EACH TRANT OR OCCUPANT OF ANY BUILDING, SHOWN ON THIS SITE DEVELOPMENT PLAN, WHO WILL DISCHARGE NON-DOMESTIC WASTE TO THE PUBLIC SEWERAGE SYSTEM IF THIS WASTE IS REGULATED UNDER SECTION 16.12.2 OF THE HOWARD COUNTY CODE. EACH SEPARATE AND INDEPENDENT SEWER CONNECTION SHALL INCLUDE A STANDARD MANHOLE AND OTHER WASTE PRETREATMENT DEVICES AS REQUIRED AND APPROVED BY HOWARD COUNTY. WASTE LINES ON THE INTERIOR OF THE BUILDING SHALL BE DESIGNED, CONSTRUCTED OR MODIFIED SUCH THAT NON-DOMESTIC WASTE WILL BE DISCHARGED TO THE SEPARATE AND INDEPENDENT SEWER CONNECTION. NO TRANT OR OCCUPANT OF ANY BUILDING SHOWN ON THIS SITE DEVELOPMENT PLAN SHALL DISCHARGE REGULATED NON-DOMESTIC WASTE TO THE PUBLIC SEWERAGE SYSTEM PRIOR TO INSTALLATION OF THE SEPARATE AND INDEPENDENT SEWER CONNECTION AND RELATED INTERIOR WASTE LINES. THE ABOVE REQUIREMENTS SHALL APPLY TO ALL INITIAL AND FUTURE OCCUPANTS OR TENANTS.
16. 100-YR FLOODPLAIN SHOWN ON THESE PLANS AS PER STUDY COMPLETED UNDER P-00-90.
17. WP-90-54 is a request originally filed on November 3, 1989 for waiver of Subdivision Regulations:
 A. Section 16.12.6.A.1 - to allow the location of a stormwater management facility within the 100-year floodplain;
 B. Section 16.12.6.C.6 - to allow grading, clearance, and fill within 25 feet of a (man-made) wetland; (and in an addendum filed on January 25, 1990)
 C. Section 16.12.6.C.4.11 - grading into slopes of 25% or greater adjacent to a floodplain or wetland; and
 D. Section 16.12.7 - to permit two driveways on Parcel A (subject of this plan) to access U.S. Route 40 and two commercial driveways on parcels 68 (not part of this submittal). The waiver requests were approved subject to conditions included in a letter of April 30, 1990 from Marsha McLaughlin to Commissioned Limited Partnership which state that the driveway for Parcel 68 (not part of this submittal) onto Frederick Road was denied.

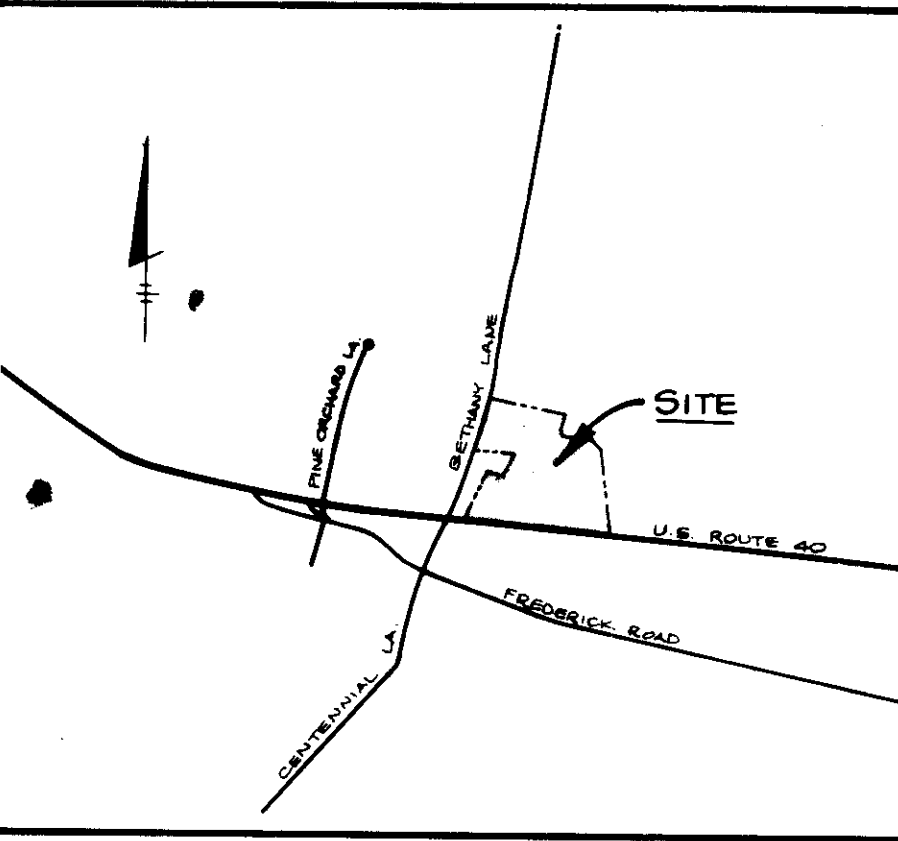
ITEMS A, B AND C WERE GRANTED APPROVAL BY THE HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING ON APRIL 11, 1990. ITEM D WAS DENIED ON APRIL 11, 1990.
 (CONTINUED ON THIS SHEET - ADJACENT TO VICINITY MAP)

SUBDIVISION NAME	SECT./AREA	LOT/PARCEL #
THE ENCHANTED FOREST		A
OR L/F BLOCK # 200	TAX/ZONE MAP	ELEC. DIST. CENSUS TR
17/17, 18/18, 19/19	200	6022
WATER CODE 400	SURVEY CODE 5440000	



GENERAL NOTES

- 2.8 CASE 867U- REQUESTED REMOVING OF 101 AC FROM R-20 TO B-2 AND 510 AC FROM B-2 TO R-20 IT WAS GRANTED APPROVAL ON JUNE 2, 1989 BY THE PLANNING BOARD OF HOWARD COUNTY.
- W-09-143- REQUESTED WAIVER TO SECTIONS 16.12.6 AND 16.12.7 OF THE HOWARD COUNTY SUBDIVISION REGULATION, WHICH REQUIRES SUBMITTAL OF A PRELIMINARY PLAN. REQUEST WAS APPROVED BY THE DEPARTMENT OF PLANNING AND ZONING ON SEPT. 15, 1989. ALSO REQUESTED WAIVER TO SECTION 16.11.3 WHICH REQUIRED IMPROVEMENTS TO BETHANY LAKE REQUEST WAS DENIED ON SEPTEMBER 19, 1989.
18. FOR SEQUENCE OF CONSTRUCTION SEE SHEET NO. 4 OF 5.
19. EX. WELLS (EX. SEPTIC SYSTEMS) EXCEPT FOR THE GUARD SHAFTS SHALL BE ABANDONED IN ACCORDANCE WITH PROVISIONS OF CONAR 20.04.06 AND CONAR 20.04.08 RESPECTIVELY. CONTRACTOR TO NOTIFY HEALTH DEPARTMENT OF THE ABANDONMENTS.



LEGEND

- PROPOSED SNOW FENCE
- EX. EDGE OF PAVING
- EX. STRUCTURE
- EX. FENCE
- EX. WALL
- FLOODPLAIN LIMIT
- WETLANDS LIMIT
- 25' WETLANDS BUFFER
- EX. WOODS LINE
- PROP. LIMIT OF DISTURBANCE
- 25% AND GREATER SLOPES

CONTRACTOR - SEE ENCHANTED FOREST MASS GRADING PLAN NOTE ON SHEET 2 OF 5 PRIOR TO BEGINNING ANY CONSTRUCTION.

AFTER EACH RAIN EVENT CONTRACTOR SHALL FLUSH WATER FROM TEMPORARY SWILI/TRAPS DOWN TO MINIMUM CLEANOUT ELEVATION. WATER SHALL BE DISCHARGED ONTO EXISTING STABILIZED OUTFALL.

ROUTE 40

ROUTE 40

ROUTE 40

ROUTE 40

ROUTE 40

ROUTE 40

ROUTE 40

ROUTE 40

ROUTE 40

ROUTE 40

ROUTE 40

ROUTE 40

ROUTE 40

ROUTE 40

ROUTE 40

ROUTE 40

ROUTE 40

ROUTE 40

ROUTE 40

BY THE DEVELOPER:

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

Joyce M. Boyd 6/19/90
 DEVELOPER 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 SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT."

Arthur E. Muegge 6/19/90
 ENGINEER DATE

REVIEWED FOR HOWARD S.C.D. NAME

AND METS TECHNICAL REQUIREMENTS
Joyce M. Boyd 6/26/90
 SOIL CONSERVATION SERVICE DATE

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

HOWARD S.C.D. DATE

DATE NO REVISION

OWNER / DEVELOPER

STONEHENGE LIMITED PARTNERSHIP
 40 YORK ROAD
 BETHANY, MARYLAND 21758

PROJECT

A COMMERCIAL CENTER
THE ENCHANTED FOREST
 PARCEL A

AREA

TAX MAPING 24 PARCELS 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124
 HOWARD COUNTY, MARYLAND

TITLE

MASS GRADING PLAN

RIEMER MUEGGE & ASSOCIATES, INC.

A Land Planning, Engineering and Consulting Firm
 3105 North Ridge Road
 Elkton City, Maryland 21043
 301-461-2690 FAX: 301-750-3176

DATE 6/19/90

DESIGNED BY JJB

DRAWN BY SRH

PROJECT NO 3018

DATE MARCH 15, 1990

SCALE AS SHOWN

DRAWING NO. 1 OF 5

SDP-00-187

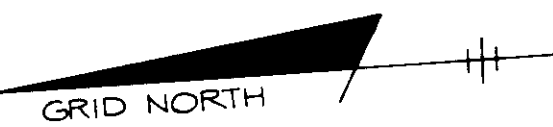
NOTE:

Final placement of snow-fence to be determined by owner or his agent (Urban Forester) before clearing or grading operations begin. No activities outside of the snow fence and/or the limits of disturbance will be allowed which might damage trees to be saved, wetlands, floodplains, or buffer areas.

Activities outside of the limits of disturbance which are not permitted are: storage of vehicles, materials, chemical, or fuels; fires or clean-up operations; activities which will compact soils beneath tree canopies; or operation of vehicles.

STONE OUTLET SEDIMENT TRAP NO. 1

DRAINAGE AREA = 124 AC.
 STORAGE REQ'D = 2,232 C.F.
 STORAGE PROVIDED = 2,232 C.F. @ EL. 381.9
 CREST EL. = 384.2
 BOTTOM EL. = 380.0
 DEPTH = 4.2 (BELOW SPILLWAY)
 CLEANOUT EL. = 381.0
 BOTTOM SIZE = 22" x 40"
 CREST WIDTH = 7'
 FOR SECTION SEE SHEET 5 OF 5



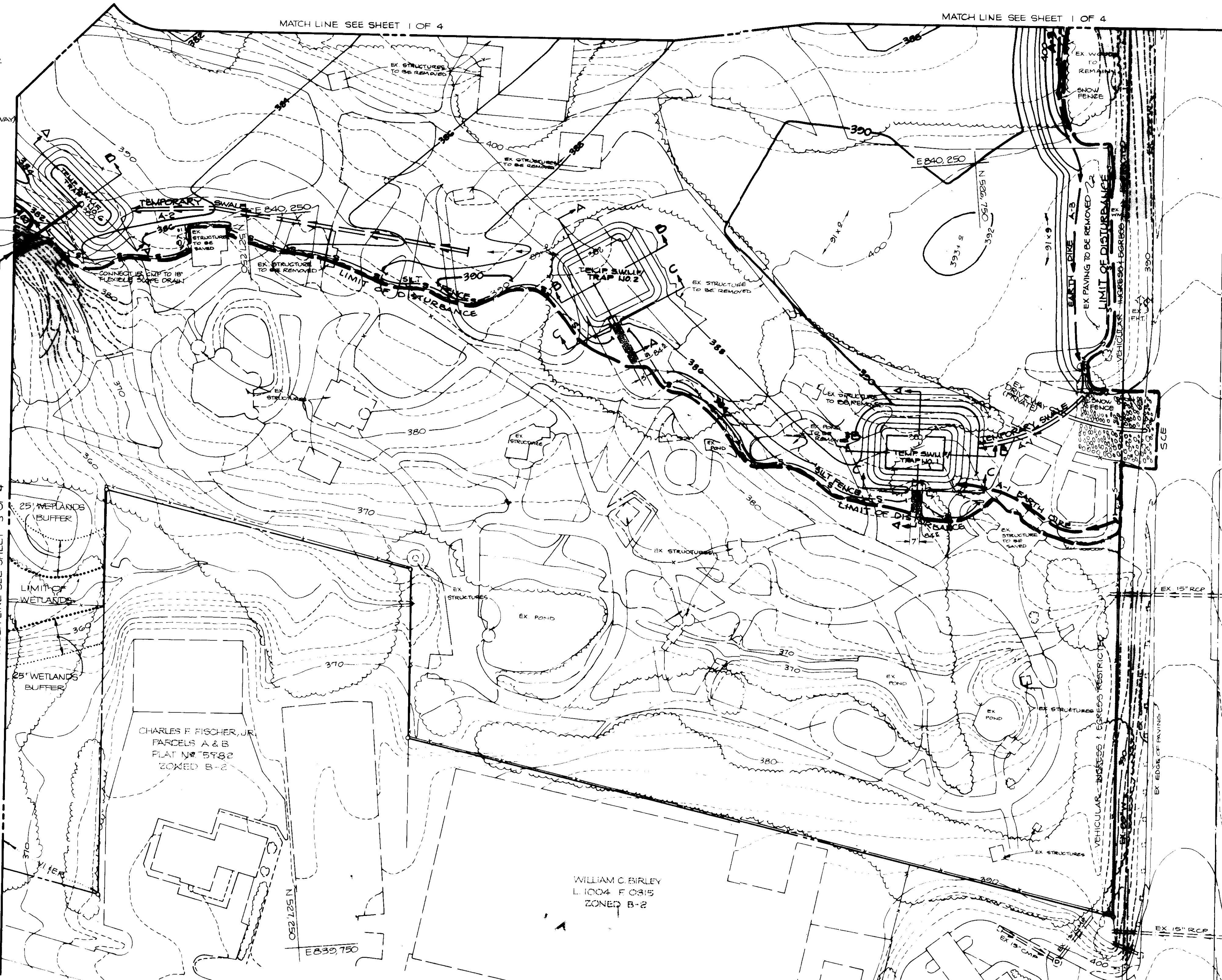
PIPE OUTLET SEDIMENT TRAP NO. 6

DRAINAGE AREA = 1.07 AC.
 STORAGE REQ'D = 1070 C.F.
 STORAGE PROVIDED = 2080 C.F. @ EL. 382.2
 RIVER SIZE = 18"
 RISER CREST = 384.95
 BARREL SIZE = 18"
 BOTTOM ELEV. = 380.0
 DEPTH = 4.35 (BELOW SPILLWAY)
 CLEANOUT ELEV. = 381.1
 BOTTOM SIZE = 52" x 12"
 FOR SECTION SEE SHEET 5 OF 5

NOTE TO CONTRACTOR
 FLEXIBLE SLOPE DRAIN TO BE LAID OVER EXISTING GRADE WITH ABSOLUTE MINIMUM DISTURBANCE TO EXISTING VEGETATION.

STONE OUTLET SEDIMENT TRAP NO. 2

DRAINAGE AREA = 0.89 AC.
 STORAGE REQ'D = 1600 C.F.
 STORAGE PROVIDED = 1,600 C.F. @ EL. 382.9
 CREST EL. = 384.30
 BOTTOM EL. = 382.0
 DEPTH = 2.3 (BELOW SPILLWAY)
 CLEANOUT EL. = 382.5
 CREST WIDTH = 5'
 BOTTOM SIZE = 40" x 40"
 FOR SECTION SEE SHEET 5 OF 5



LEGEND

- PROPOSED SNOW FENCE
- EX. EDGE OF PAVING
- EX. STRUCTURE
- EX. FENCE
- EX. WALL
- FLOODPLAIN LIMIT
- WETLANDS LIMIT
- 25' WETLANDS BUFFER
- EX. WOODS LINE
- PROP. LIMIT OF DISTURBANCE
- 25% AND GREATER SLOPES

CONTRACTOR - SEE ENCHANTED FOREST MASS GRADING PLAN NOTE ON THIS SHEET PRIOR TO BEGINNING ANY CONSTRUCTION.

AFTER EACH RAIN EVENT CONTRACTOR SHALL PUMP WATER FROM TEMPORARY SWALE/TRAPS DOWN TO MINIMUM CLEANOUT ELEVATION. WATER SHALL BE DISCHARGED ONTO EXISTING STABILIZED OUTFALL.

PLAN
 SCALE: 1" = 40'

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT.	
<i>James M. ...</i> COUNTY HEALTH OFFICER	7-11-90 DATE
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING	
<i>...</i> DIRECTOR	7-19-90 DATE
APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS.	
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS	
<i>...</i> DIRECTOR	7/27/90 DATE
APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS.	
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS	
<i>...</i> DIRECTOR	7/27/90 DATE
BY THE DEVELOPER:	
"I, THE DEVELOPER, 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 INSPECTIONS BY THE HOWARD SOIL CONSERVATION DISTRICT."	
<i>...</i> DEVELOPER	6-19-90 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 SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT."	
<i>...</i> ENGINEER	6-18-90 DATE
REVIEWED FOR NAME: HOWARD S.C.D.	S.C.D.
AND MEETS TECHNICAL REQUIREMENTS	
<i>...</i> S.O.S. SOIL CONSERVATION SERVICE	6/26/90 DATE
THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.	
HOWARD S.C.D.	DATE
DATE NO.	REVISION
OWNER/DEVELOPER	
STONEHENGE LIMITED PARTNERSHIP 40 YORK ROAD TOWSON MARYLAND 21284	
PROJECT	
A COMMERCIAL CENTER THE ENCHANTED FOREST PARCEL 'A'	
AREA TAX MAP NO. 24 PARCELS 454, 564 & 19 2ND ELECTION DISTRICT HOWARD COUNTY, MARYLAND	
TITLE	
MASS GRADING PLAN	
RIEMER MUEGGE & ASSOCIATES, INC. A Land Planning, Engineering and Consulting Firm 3105 North Ridge Road Ellicott City, Maryland 21043 301-461-2690 FAX: 301-750-3176	
DATE: 6/18/90	DESIGNED BY: JJB
DRAWN BY: SRH	PROJECT NO: 30110
DATE: MARCH 15, 1990	SCALE: AS SHOWN
DRAWING NO: 2 OF 5	



MATCH LINE SEE SHEET 2 OF 4

MATCH LINE SEE SHEET 1 OF 4

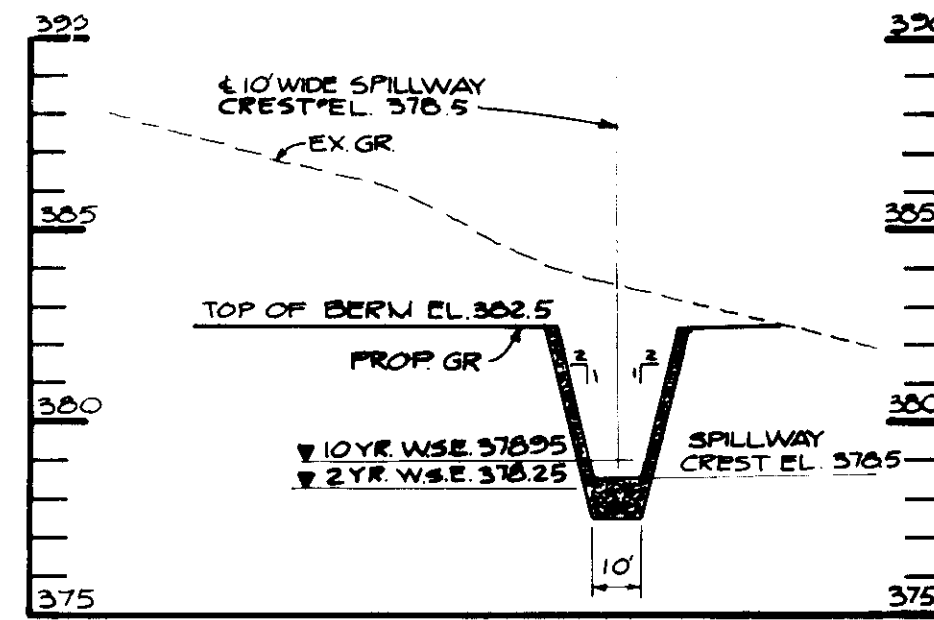
PLAN
SCALE 1"=40'

NOTE TO CONTRACTOR
FLEXIBLE SLOPE TO BE LAID OVER
EXISTING GRADE WITH ABSOLUTE
MINIMUM DISTURBANCE TO EXISTING
VEGETATION.

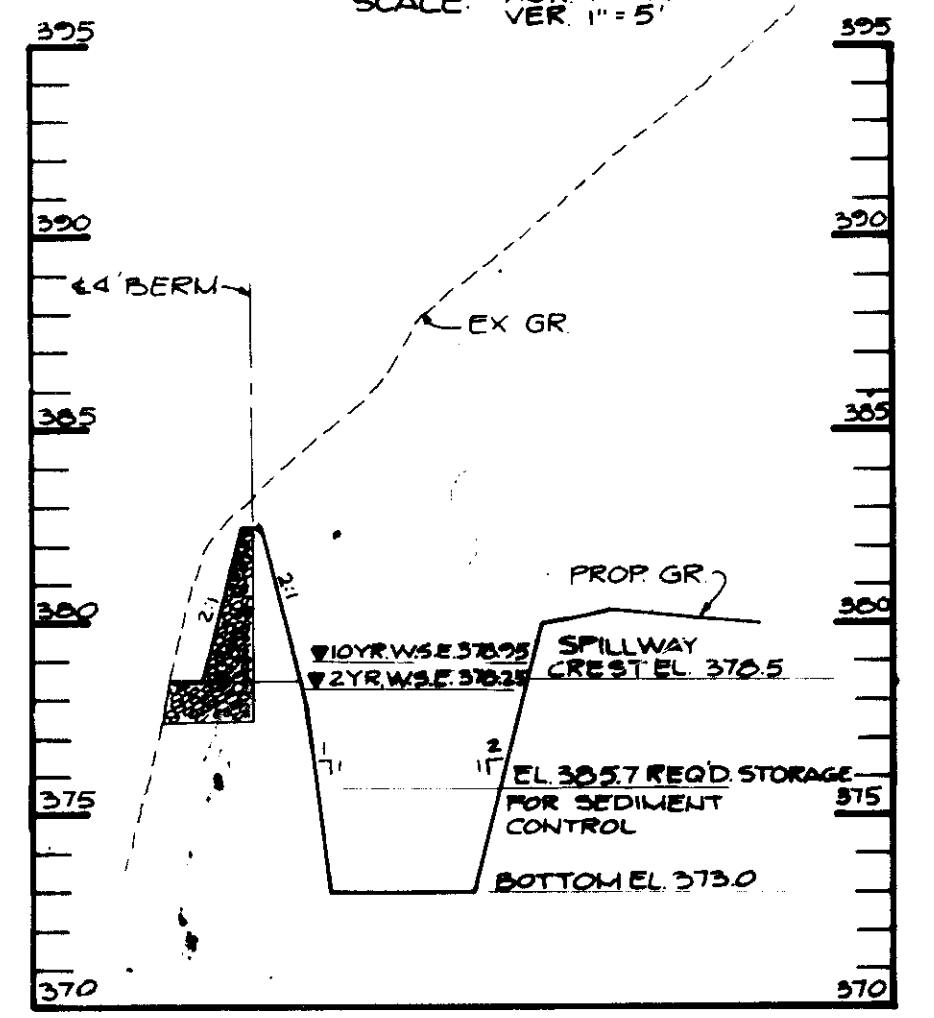
RIPRAP OUTLET SEDIMENT TRAP NO. 3

DRAINAGE AREA = 902 AC.
STORAGE REQ'D. = 16,236 CF
STORAGE PROV. = 16,236 CF @ EL. 375.7
CREST ELEV. = 378.9
BOTTOM ELEV. = 373.0
CLEANOUT ELEV. = 375.5
SPILLWAY LENGTH = 10'
TOP EMBANKMENT = 383.0
DEPTH = 5'5" (BELOW SPILLWAY)
BOTTOM SIZE = 125" x 50"
SIDE SLOPES = 1:1 (BELOW EL. 378.0)

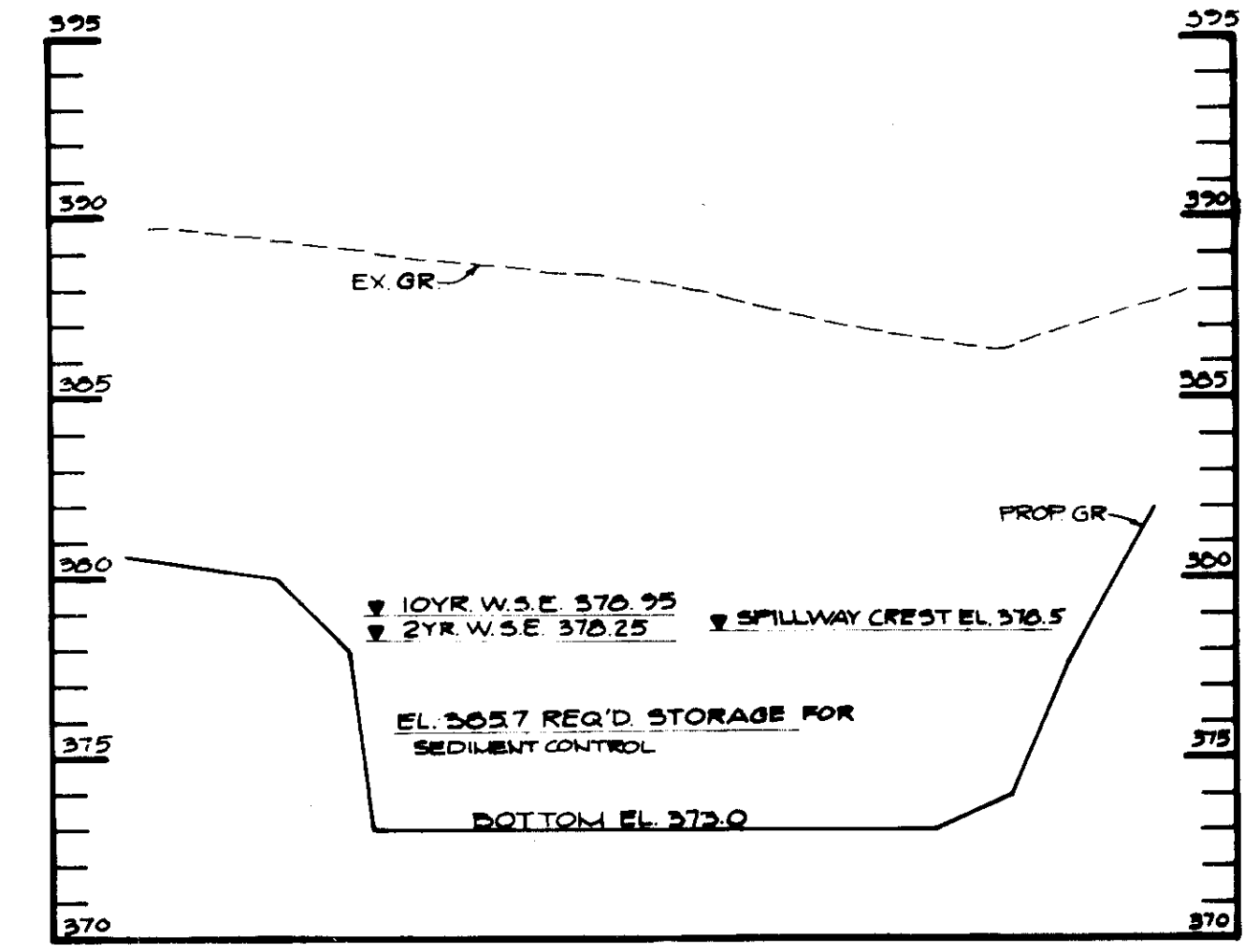
FOR SECTION SEE THIS SHEET



SECTION 'C-C'
TEMP. SW.M. AND TRAP NO. 5
SCALE: HOR 1"=40'
VER 1"=5'



SECTION 'B-B'
TEMP. SW.M. AND TRAP NO. 3
SCALE: HOR 1"=40'
VER 1"=5'



SECTION 'A-A'
TEMP. SW.M. AND TRAP NO. 3
SCALE: HOR 1"=40'
VER 1"=5'

LEGEND

PROPOSED SNOW FENCE // — // — //
EX. EDGE OF PAVING ————
EX. STRUCTURE ————
EX. FENCE — x — x —
EX. WALL ————
FLOODPLAIN LIMIT ————
WETLANDS LIMIT ————
25' WETLANDS BUFFER ————
EX. WOODS LINE ————
PROP. LIMIT OF DISTURBANCE ————

25% AND GREATER SLOPES [Symbol]

NOTE: ALL ON-SITE ROADWAYS ARE PRIVATE

CONTRACTOR - SEE ENCHANTED FOREST MASS GRADING PLAN NOTE ON SHEET 2 OF 5 PRIOR TO BEGINNING ANY CONSTRUCTION.

AFTER EACH RAIN EVENT CONTRACTOR SHALL FLUSH WATER FROM TEMPORARY SW.M./TRAPS DOWN TO MINIMUM CLEANOUT ELEVATION. WATER SHALL BE DISCHARGED ONTO EXISTING STABILIZED OUTFALL.

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT.
James M. Boyd COUNTY HEALTH OFFICER 7-11-90 DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.
Chris DIRECTOR 7-19-90 DATE

APPROVED: CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT.
Mark J. Dwyer CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT 7/27/90 DATE

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS.
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
James P. ... DIRECTOR 7/27/90 DATE

CHIEF, BUREAU OF ENGINEERING
... 7-29-90 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 INSPECTIONS BY THE HOWARD SOIL CONSERVATION DISTRICT."
Tim Peters DEVELOPER 6-19-90 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 SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT."
Arthur E. Muegge ENGINEER 6-18-90 DATE

REVIEWED FOR: HOWARD COUNTY S.C.D. NAME AND PRINT TECHNICAL REQUIREMENTS
... 6/26/90 DATE
U.S. SOIL CONSERVATION SERVICE
ALL DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
HOWARD S.C.D. DATE

DATE	NO.	REVISION
OWNER / DEVELOPER STONEHENGE LIMITED PARTNERSHIP 40 YORK ROAD TOWSON MARYLAND 21284		
PROJECT A COMMERCIAL CENTER THE ENCHANTED FOREST PARCEL 'A'		
AREA TAX MAP NO. 24 PARCELS 454, 564 & 119 2ND ELECTION DISTRICT HOWARD COUNTY, MARYLAND		
TITLE MASS GRADING PLAN		
RIEMER MUEGGE & ASSOCIATES, INC. A Land Planning, Engineering and Consulting Firm 3105 North Ridge Road Ellicott City, Maryland 21043 301-461-2690 FAX: 301-750-3176		
DATE 6/18/90	DESIGNED BY JWB	DRAWN BY SRH
PROJECT NO 3010	DATE MARCH 15, 1990	SCALE AS SHOWN
DRAWING NO 3 OF 5	DRAWING NO 3 OF 5	

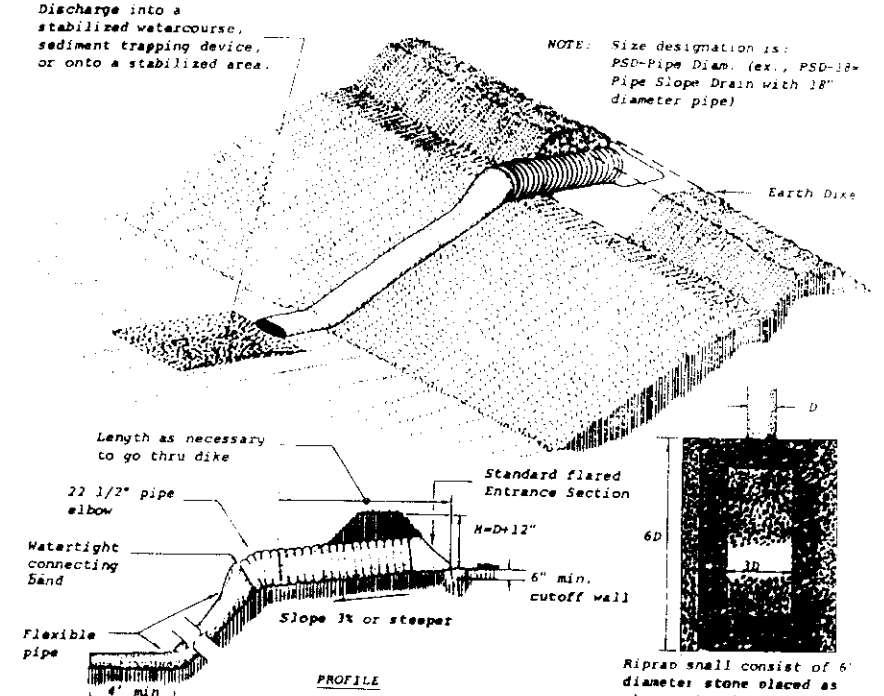
SEDIMENT CONTROL NOTES

- A minimum of 72 hours notice must be given to the Howard County Office of Inspections 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:
 - 7 calendar days for all perimeter sediment control structures, dikes, perimeter slopes and all slopes greater than 3:1.
 - 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 mulching (Sec. 31) and (Sec. 34), temporary seeding (Sec. 30) and 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 permanent stabilization has been obtained from the Howard County Sediment Control Inspector.
- Site Analysis:

Total Area of Site	21.75	Acres
Area Disturbed	11.5	Acres
Area to be vegetatively stabilized	10.25	Acres
Total Cut	22,000	Cu. Yds.
Total Fill	100	Cu. Yds.
- 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 Department of Public Works Sediment Control Inspector.
- Site grading will begin only after all perimeter sediment control measures have been installed and are in a functioning condition.
- Sediment will be removed from traps when its depth reaches the clean out elevation shown on the plans.
- Cut and fill quantities provided under site analysis do not represent bid quantities. These quantities do not distinguish between topsoil, structural fill or embankment material, nor do they reflect consideration of understructure or removal of undesirable material. The contractor shall familiarize himself with site conditions which may affect the work.

PIPE SLOPE DRAIN (FLEXIBLE)

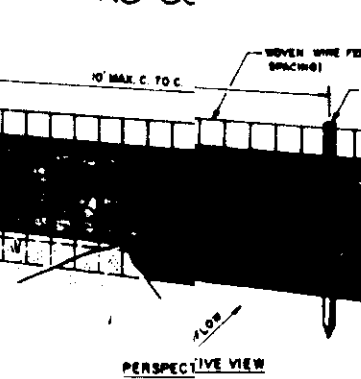
NO SCALE



- The inlet pipe shall have a slope of 1% or steeper.
- The top of the earth dike must be at least 18 inches above the top of the inlet pipe.
- The inlet pipe shall be constructed of a durable material with a minimum diameter of 12 inches.
- The flexible pipe shall be installed in a trench with a minimum depth of 18 inches.
- The flexible pipe shall be supported by a concrete base at the inlet.
- A concrete apron shall be provided at the inlet.
- The apron shall be at least 18 inches wide and 4 inches thick.
- The apron shall be finished with a smooth surface.
- The apron shall be finished with a smooth surface.
- The apron shall be finished with a smooth surface.

SILT FENCE

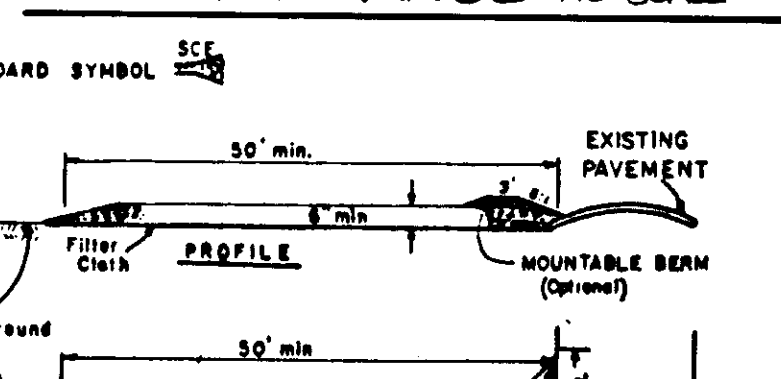
NO SCALE



- Filter cloth shall be placed over the entire area prior to placement of stone.
- Filter cloth shall be placed over the entire area prior to placement of stone.
- Filter cloth shall be placed over the entire area prior to placement of stone.
- Filter cloth shall be placed over the entire area prior to placement of stone.
- Filter cloth shall be placed over the entire area prior to placement of stone.

STABILIZED CONSTRUCTION ENTRANCE

NO SCALE



- Stone size - Use 2" stone, or recycled concrete equivalent.
- Length - As required, but not less than 20 feet (except on a single residence lot where a 30 foot minimum length would apply).
- Thickness - Not less than 6" (6) inches.
- Width - The 18" feet 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 placement of stone. Filter cloth will not be required on a single residence lot.
- Surface Water - All surface water flowing or diverted toward construction entrance shall be piped across the entrance. If piping is impractical, a removable beam with 1/2" slope will be provided.
- Maintenance - The entrance shall be maintained in a condition which will prevent tracking of sediment onto public rights-of-way. This may require periodic top dressing with additional stone as conditions demand and repair and replacement of any materials used to keep sediment out of the entrance.
- 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 other drainage into an approved sediment trapping device.
- Periodic inspection and needed maintenance shall be provided after each rain.

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, if not previously loosened.

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 acre 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 ft. 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.

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

James M. [Signature] 7-11-90
COUNTY HEALTH OFFICER DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Urb [Signature] 7.19.90
DIRECTOR DATE

CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT

James M. [Signature] 7/2/90
DIRECTOR DATE

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

HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

James M. [Signature] 7/2/90
DIRECTOR DATE

CHIEF, BUREAU OF ENGINEERING

Arthur E. Muegge 7.19.90
DATE

BY THE DEVELOPER:

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

James M. [Signature] 6/19/90
DEVELOPER 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 SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT."

Arthur E. Muegge 6/18/90
ENGINEER DATE

REVIEWED FOR HOWARD S.C.D.

ANSWERS TECHNICAL REQUIREMENTS

James M. [Signature] 6/26/90
S.OIL CONSERVATION SERVICE DATE

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

HOWARD S.C.D. DATE

OWNER/DEVELOPER

STONEHENGE LIMITED PARTNERSHIP
40 YORK ROAD
TOWSON MARYLAND 21284

PROJECT

A COMMERCIAL CENTER
THE ENCHANTED FOREST
PARCEL 'A'

AREA TAX MAP NO 24 PARCELS 454, 564 & 10
2ND ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

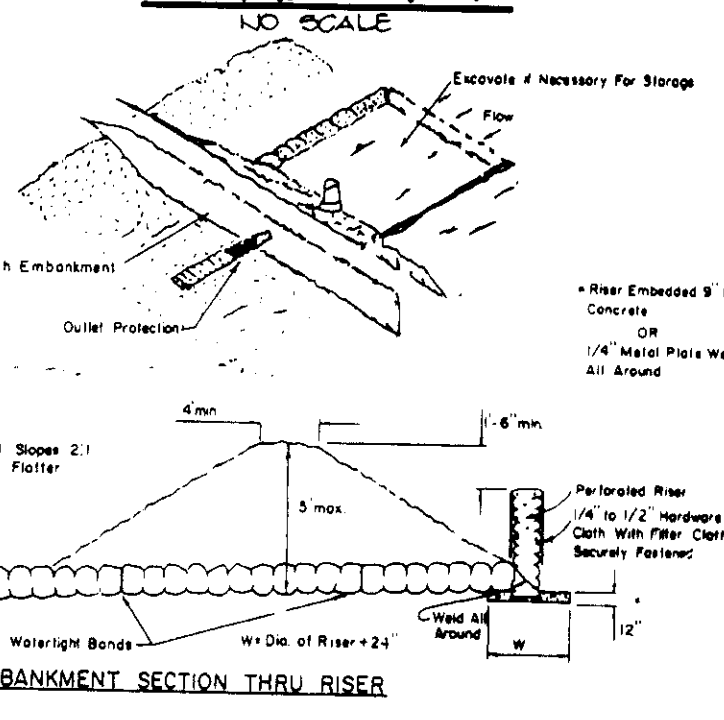
TITLE: MASS GRADING PLAN
SEDIMENT CONTROL NOTES & DETAILS

RIEMER MUEGGE & ASSOCIATES, INC.
A Land Planning, Engineering and Consulting Firm
3105 North Ridge Road Ellicott City, Maryland 21043
301-461-2690 FAX: 301-750-3176

DESIGNED BY JUB
DRAWN BY SRH
PROJECT NO 3010
DATE MARCH 1990
SCALE AS SHOWN
DRAWING NO 4 OF 5

PIPE OUTLET SEDIMENT TRAP ST-1

NO SCALE



Borral Diameter	18"
Riser Diameter	18"

CONSTRUCTION SPECIFICATION FOR ST-1

- Area under embankment shall be cleared, grubbed and stripped of any vegetation and root mat. The pool area shall be cleared.
- The fill material for the embankment shall be free of roots or other woody vegetation as well as oversized stones, rocks, organic material, or other objectionable material. The embankment shall be compacted by traversing with equipment while it is being constructed.
- Volume of sediment storage shall be 1800 cubic feet per acre of contributory drainage.
- Sediment shall be removed and trap restored to its original dimensions when the sediment has accumulated to 1/2 the design depth of the trap. Removed sediment shall be deposited in a suitable area and in such a manner that it will not erode.
- The structure shall be inspected after each rain and repairs made as needed.
- Construction operations shall be carried out in such a manner that erosion and water pollution are minimized.
- The structure shall be removed and area stabilized when the drainage area has been properly stabilized.
- All fill slopes shall be 2:1 or flatter; cut slopes 1:1 or flatter.
- All pipe connections shall be watertight.
- The top 2/3 of the riser shall be perforated with one (1) inch diameter holes or slots spaced six (6) inches vertically and horizontally and placed in the concave portion of pipe. No holes will be allowed within six (6) inches below the lowest hole. Where ends of filter cloth cross, together, they shall be overlapped, folded and stapled to prevent bypass.
- Straps or connecting bands shall be used to hold the filter cloth and wire fabric in place. They shall be placed at the top and bottom of the cloth.
- Fill material around the pipe spillway shall be hand compacted in four (4) inch layers. A minimum of two (2) feet of hand-compacted backfill shall be placed over the pipe spillway before crossing it with construction equipment.
- The riser shall be anchored with either a concrete base or steel plate base to prevent flotation. For concrete base the depth shall be 12 inches with the riser embedded nine (9) inches. A 1/4 inch minimum thickness steel plate shall be attached to the riser by a continuous weld around the bottom to form a watertight connection and then place two (2) ft of stone, gravel, or tamped earth on the plate.

SEQUENCE OF CONSTRUCTION

- OBTAIN GRADING PERMIT
- INSTALL STABILIZED CONSTRUCTION ENTRANCE, SEDIMENT TRAPS NO 1, 2, 3, 4, 5 AND EARTH DIKES, TEMPORARY SWALE, GSS-3 AND SILT FENCE. CONTRACTOR TO CLEAR AND GRUB ONLY THOSE AREAS NEEDED FOR INSTALLATION OF SEDIMENT CONTROL MEASURES. STABILIZE ALL DISTURBED AREAS IN ACCORDANCE WITH TEMPORARY SEEDING NOTES. (5 DAYS)
- GRADE SITE. CONTRACTOR TO ADJUST EARTH DIKES AS GRADING PROGRESSES TO MAINTAIN POSITIVE DRAINAGE TO TRAPS WITH HOWARD COUNTY SEDIMENT INSPECTOR'S APPROVAL AND AFTER HIGH POINT OF 300.3 HAS BEEN ESTABLISHED AND SITE HAS BEEN SUFFICIENTLY GRADED TO ALLOW FOR RUNOFF TO TRAPS 4 AND 5 TO REACH TRAP NO 3, REMOVE TRAPS 4 AND 5 AND STABILIZE IN ACCORDANCE WITH TEMPORARY SEEDING NOTES. (120 DAYS)
- WITH APPROVAL OF HOWARD COUNTY SEDIMENT INSPECTOR ALL DISTURBED AREAS ARE TO BE STABILIZED IN ACCORDANCE WITH PERMANENT SEEDING NOTES. (1 DAY) ALL TEMPORARY SEDIMENT CONTROL MEASURES WILL BE STABILIZED AND LEFT IN PLACE. THE DEVELOPER WILL BE RESPONSIBLE FOR MAINTAINING AND CHECKING ON ALL TEMPORARY SEDIMENT CONTROL MEASURES AFTER EACH RAIN EVENT

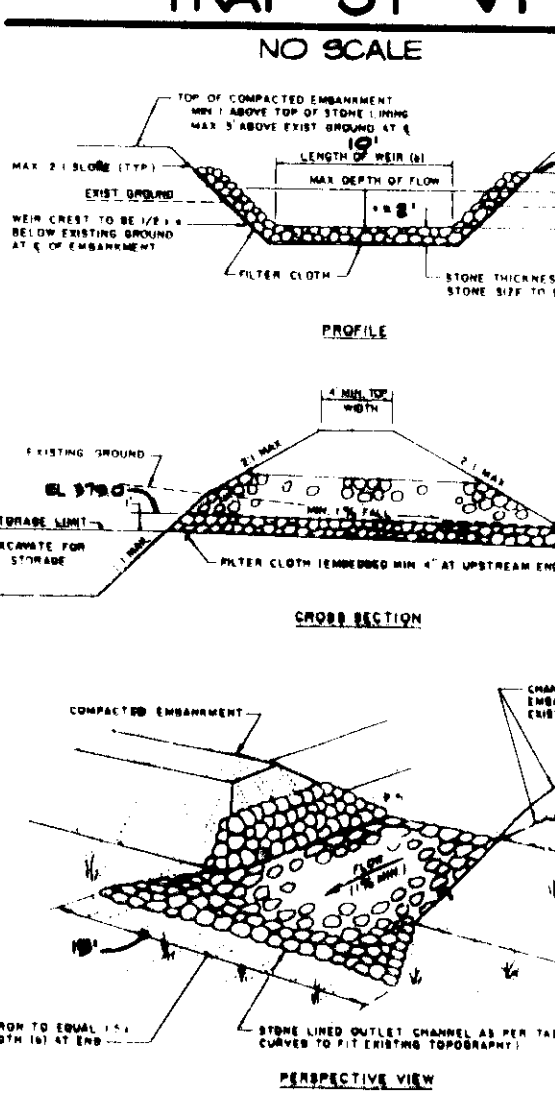
NOTES TO CONTRACTOR:
1) SEE ENCHANTED FOREST MASS GRADING PLAN NOTE ON SHEET 2 OF 5 PRIOR TO BEGINNING ANY CONSTRUCTION.
2) AFTER EACH RAIN EVENT, CONTRACTOR SHALL PUMP WATER FROM TEMPORARY SWALE/TRAPS DOWN TO MINIMUM CLEANOUT ELEVATION. WATER SHALL BE DISCHARGED ONTO EXISTING STABILIZED OUTFALL.

CONSTRUCTION SPECIFICATIONS FOR ST-VI

- The area under embankment shall be cleared, grubbed and stripped of any vegetation and root mat. The pool area shall be cleared.
- The fill material for the embankment shall be free of roots or other woody vegetation as well as oversized stones, rocks, organic material or other objectionable material. The embankment shall be compacted by traversing with equipment while it is being constructed. Maximum height of embankment shall be five (5) feet, measured at centerline of embankment.
- All fill slopes shall be 2:1 or flatter; cut slopes 1:1 or flatter.
- Elevation of the top of any dike directing water into trap must equal or exceed the height of embankment.
- Storage area provided shall be figured by computing the volume available behind the outlet channel up to an elevation of one (1) foot below the level of the dike.
- Filter cloth shall be placed over the bottom and sides of the outlet channel prior to placement of stone. Sections of fabric must overlap at least one (1) foot with section nearest the entrance placed on top. Fabric shall be embedded at least six (6) inches into existing ground at entrance of outlet channel.
- Stones used in the outlet channel shall be four (4) to eight (8) inches (larger). To provide a filtering effect, a layer of filter cloth shall be embedded one (1) foot into the upstream face of the outlet stone or one (1) foot thick layer of two (2) inch or finer aggregate shall be placed on the upstream face of the outlet.
- Sediment shall be removed and trap restored to its original dimensions when the sediment has accumulated to 1/2 the design depth of the trap. Removed sediment shall be deposited in a suitable area and in such a manner that it will not erode.
- The structure shall be inspected after each rain and repairs made as needed.
- Construction operations shall be carried out in such a manner that erosion and water pollution are minimized.
- The structure shall be removed and area stabilized when the drainage area has been properly stabilized.
- Drainage area for this practice is limited to 15 acres or less.

RIPRAP OUTLET SEDIMENT TRAP ST-VI

NO SCALE



PERPECTIVE VIEW

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, discing or other acceptable means before seeding, if not previously loosened.

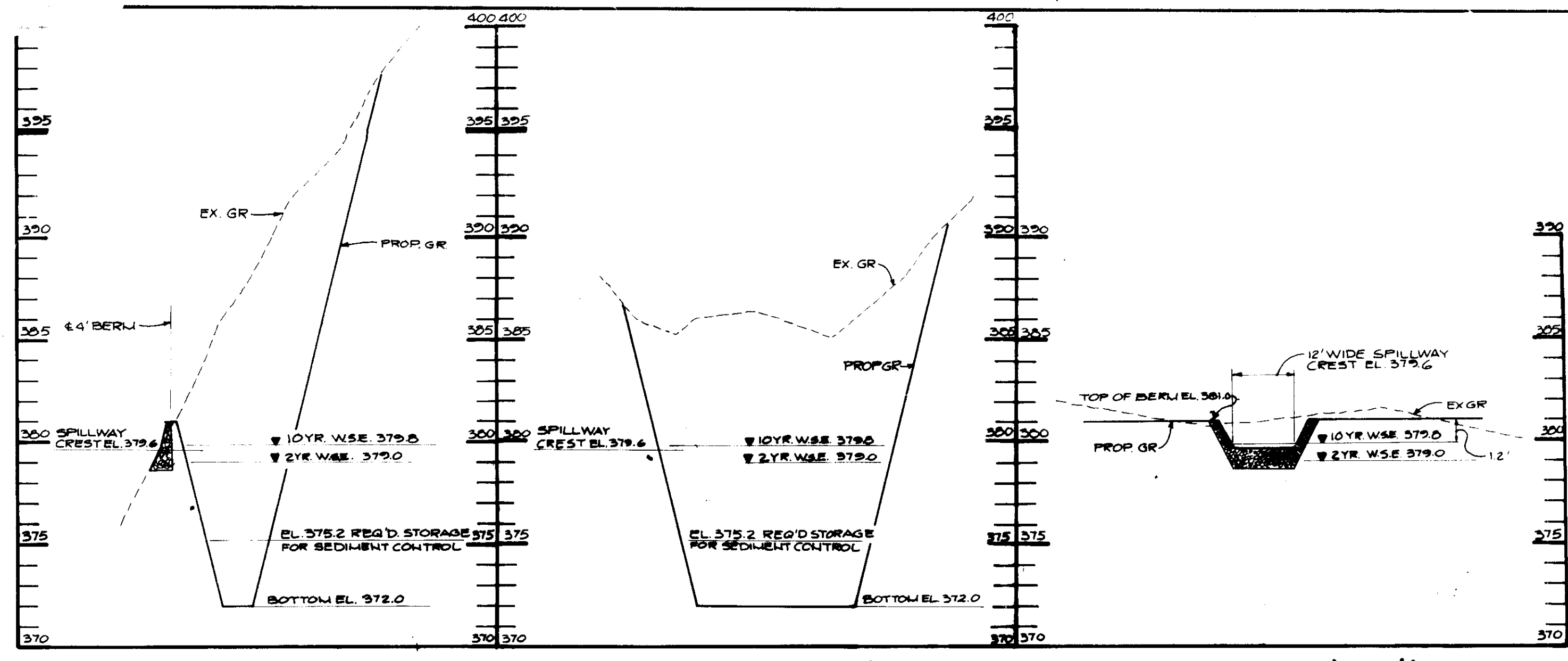
Soil Amendments: In lieu of soil test recommendations, use one of the following schedules:

- Preferred: Apply 2 tons per acre dolomitic limestone (92 lbs./1000 sq ft) and 100 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.

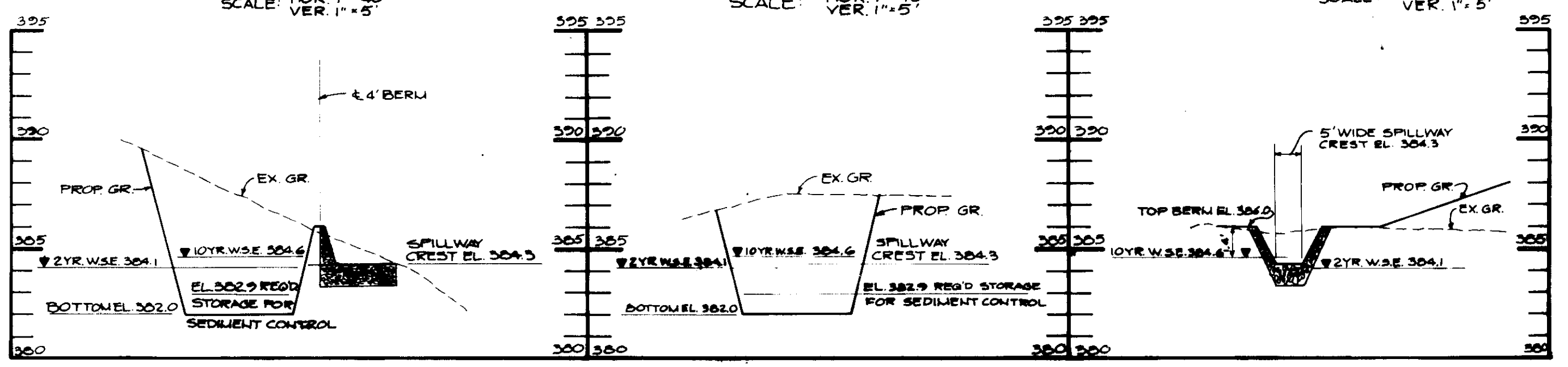
Seeding: For the periods March 1 thru April 30, and August 1 thru October 15, seed with 60 lbs. per acre (1.4 lbs./1000 sq. ft.) of Kentucky 31 Tall Fescue. For the period May 1 thru July 31, seed with 60 lbs Kentucky 31 Tall Fescue and 2 lbs per acre (.05 lbs./1000 sq ft) of weeping lovegrass. During 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 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.

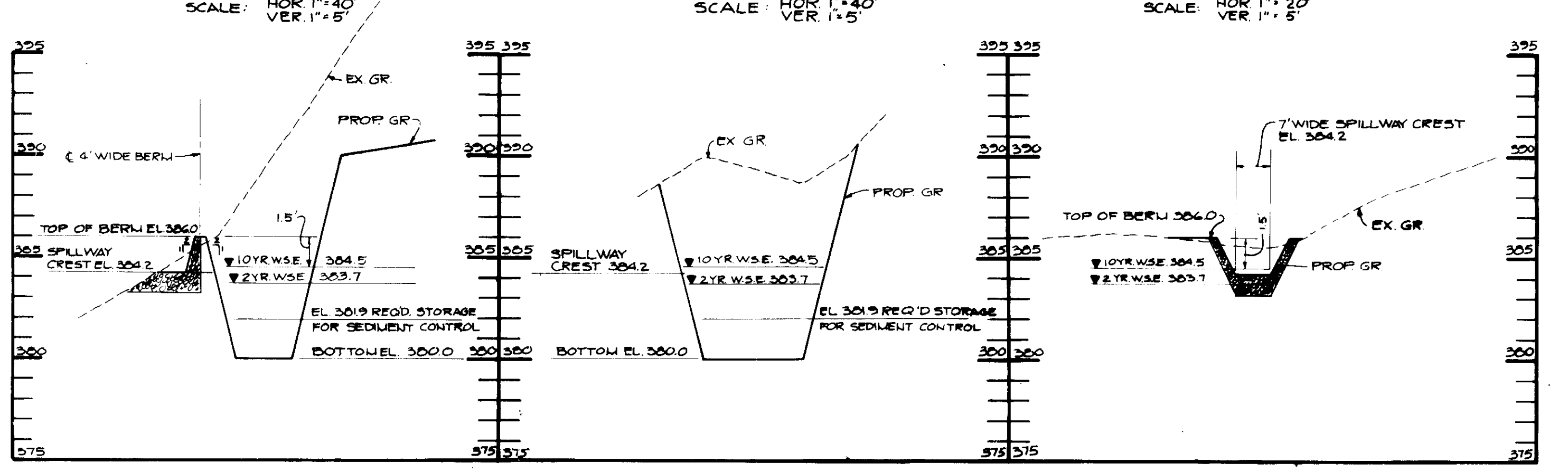
Maintenance: Inspect all seeded areas and make needed repairs, replacements and reseedings.



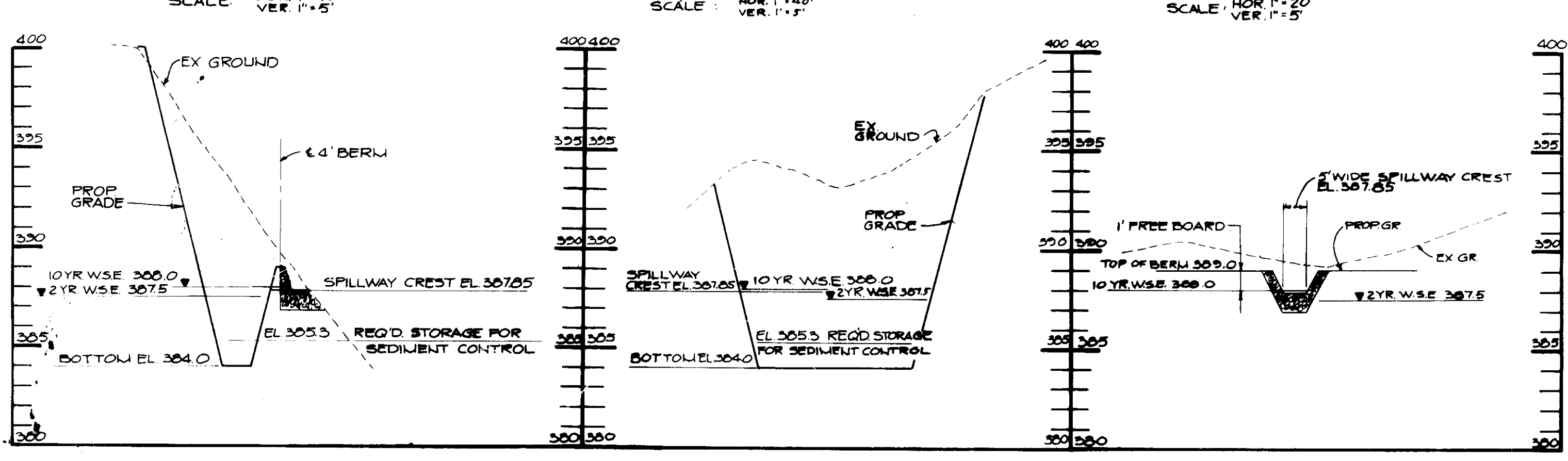
SECTION 'A-A' TEMP. S.W.M. AND TRAP NO.4
SECTION 'B-B' TEMP. S.W.M. AND TRAP NO.4
SECTION 'C-C' (THRU SPILLWAY) TEMP. S.W.M. AND TRAP NO.4



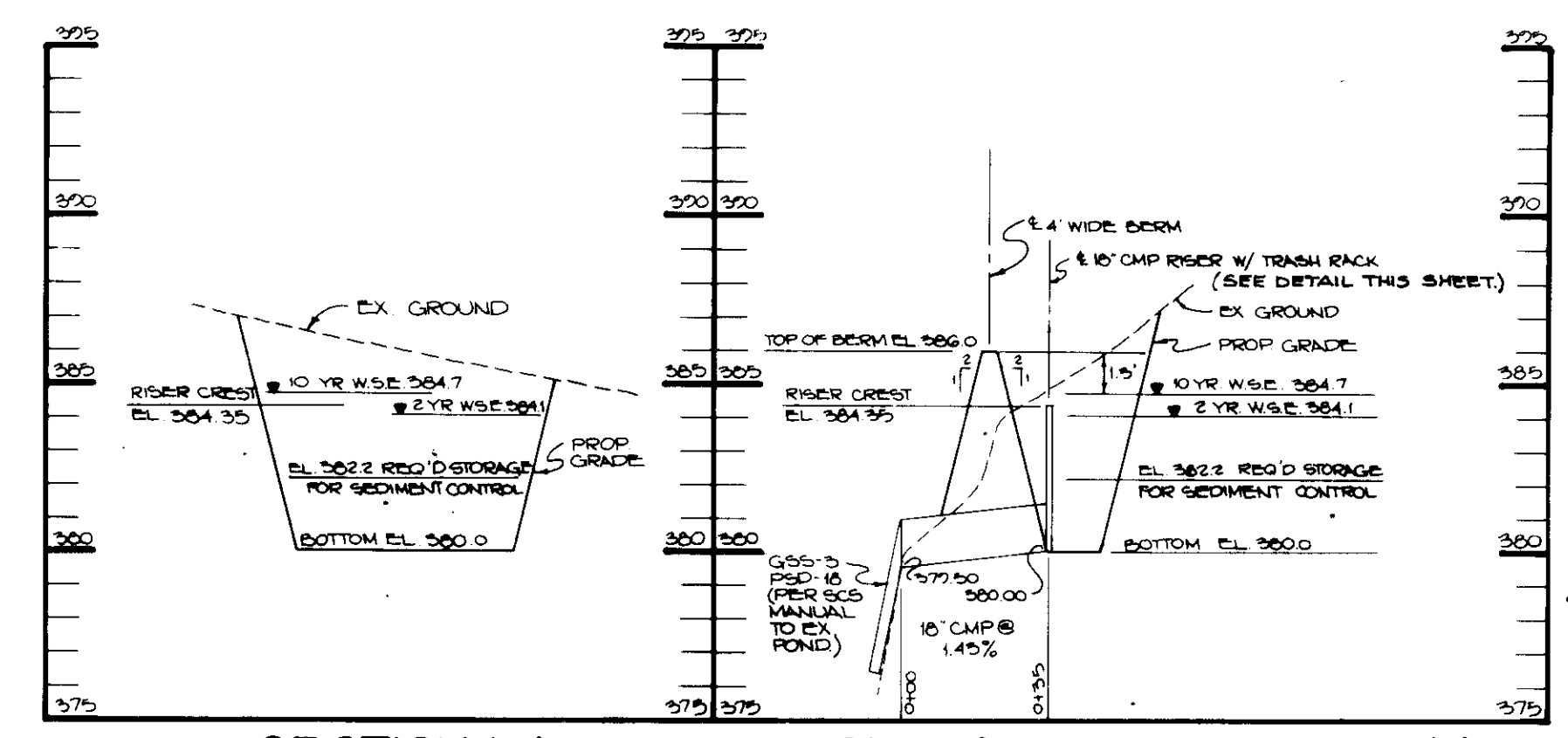
SECTION 'A-A' TEMP. S.W.M. AND TRAP NO.2
SECTION 'B-B' TEMP. S.W.M. AND TRAP NO.2
SECTION 'C-C' (THRU SPILLWAY) TEMP. S.W.M. AND TRAP NO.2



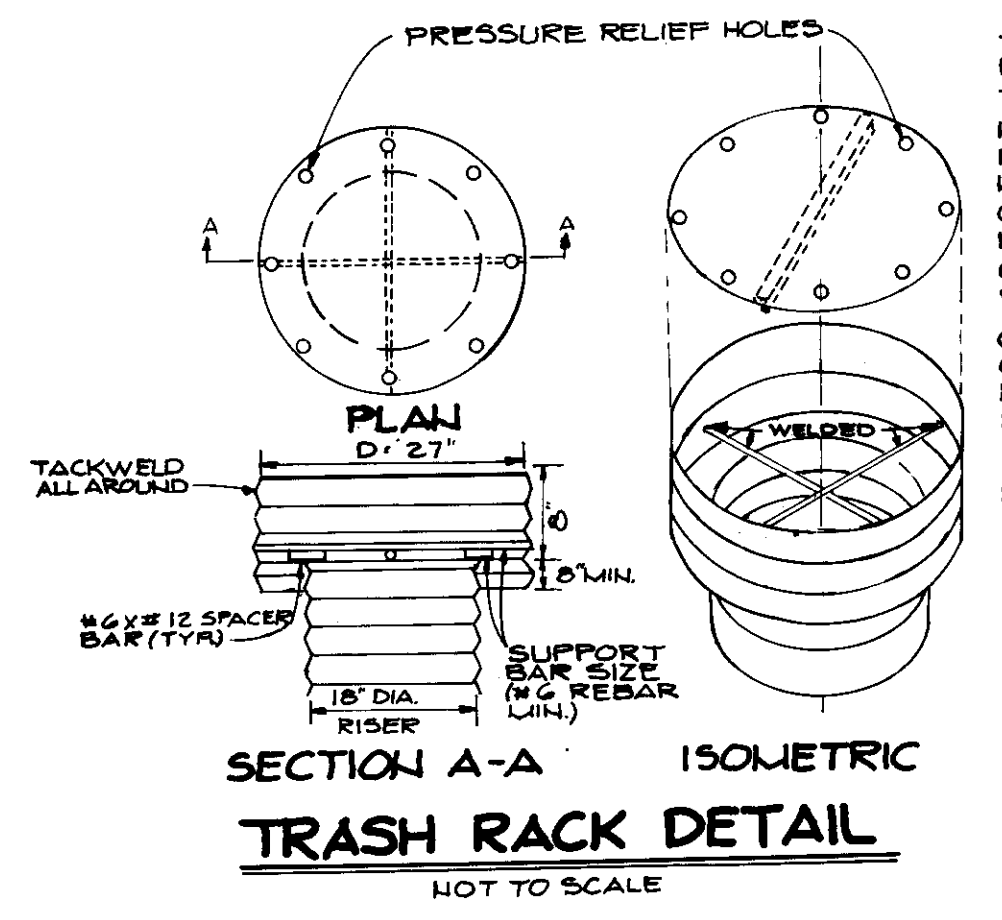
SECTION 'A-A' TEMP. S.W.M. AND TRAP NO.1
SECTION 'B-B' TEMP. S.W.M. AND TRAP NO.1
SECTION 'C-C' (THRU SPILLWAY) TEMP. S.W.M. AND TRAP NO.1



SECTION 'A-A' TEMP. S.W.M. AND TRAP NO.5
SECTION 'B-B' TEMP. S.W.M. AND TRAP NO.5
SECTION 'C-C' (THRU SPILLWAY) TEMP. S.W.M. AND TRAP NO.5



SECTION A-A TEMP. S.W.M. AND TRAP NO.6
SECTION THRU PIPE SPILLWAY TEMP. S.W.M. AND TRAP NO.6



TOP STIFFENER (NOT REQUIRED)
 TOP IS 1/2 GAGE CORRUGATED METAL OR 1/8" STEEL PLATE.
 PRESSURE RELIEF HOLES MAY BE OMITTED IF ENDS OF CORRUGATIONS ARE LEFT FULLY OPEN WHEN CORRUGATED TOP IS WELDED TO CYLINDER.
 CYLINDER IS 1/2 GAGE CORRUGATED METAL PIPE OR FABRICATED FROM 1/8" STEEL PLATE.
 TACKWELD ALL AROUND
 10' DIA. RISER
 10' MIN. SUPPORT BAR SIZE (1/2 REBAR MIN.)
 SECTION A-A ISOMETRIC
 TRASH RACK DETAIL
 NOT TO SCALE

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT.
Joseph M. Bond COUNTY HEALTH OFFICER 7-11-90 DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.
W. L. ... DIRECTOR 7-19-90 DATE
David J. ... CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT 7/27/90 DATE

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS.
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
James ... DIRECTOR 7/26/90 DATE
... CHIEF, BUREAU OF ENGINEERING DATE

BY THE DEVELOPER:
 "I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTIONS BY THE HOWARD SOIL CONSERVATION DISTRICT."
... DEVELOPER 6-19-90 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 SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT."
Walter Muegge ENGINEER 6-18-90 DATE

REVIEWED FOR HOWARD COUNTY S.C.D. AND MEETS TECHNICAL REQUIREMENTS
James ... S.C.D. 6/26/90 DATE
 THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
 HOWARD S.C.D. DATE

OWNER/DEVELOPER
 STONEHENGE LIMITED PARTNERSHIP
 40 YORK ROAD
 TOWSON, MARYLAND 21284

PROJECT: A COMMERCIAL CENTER
THE ENCHANTED FOREST
 PARCEL 'A'
 AREA TAX MAP N* 24 PARCEL 454, 564 & 19
 2ND ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

TITLE: **TEMPORARY S.W.M. CROSS SECTIONS**
 RIEMER MUEGGE & ASSOCIATES, INC.
 A Land Planning, Engineering and Consulting Firm
 3105 North Ridge Road Ellicott City, Maryland 21043
 301-461-2690 FAX: 301-750-3176

DATE: 6-18-90
 DESIGNED BY: C.J.R.
 DRAWN BY: JAB
 PROJECT NO: 30119
 DATE: MAY 22, 1990
 SCALE: AS SHOWN
 DRAWING NO: 2 OF 5
 ARTHUR E. LUEGGE #5107