SHEET INDEX	
	DESCRIPTION
1	TITLE SHEET
2	SITE DEVELOPMENT PLAN
3	DETAILS AND PROFILES
4	DRAINAGE AREA MAP AND SEDIMENT CONTROL PLAN
5	SEDIMENT CONTROL NOTES AND DETAILS
6	PLANTING PLAN

SITE DEVELOPMENT PLAN

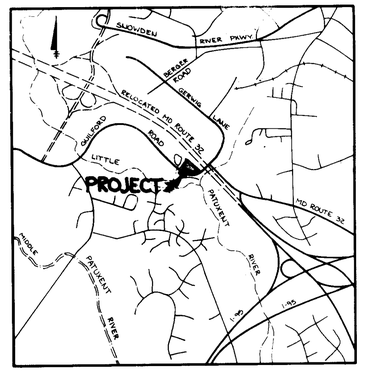
PARCEL-F

RIVERS CORPORATE PARK

SECTION 2 AREA 1

6TH ELECTION DISTRICT

HOWARD COUNTY MARYLAND



VICINITY MAP
SCALE: 1"=2000'

GENERAL NOTES

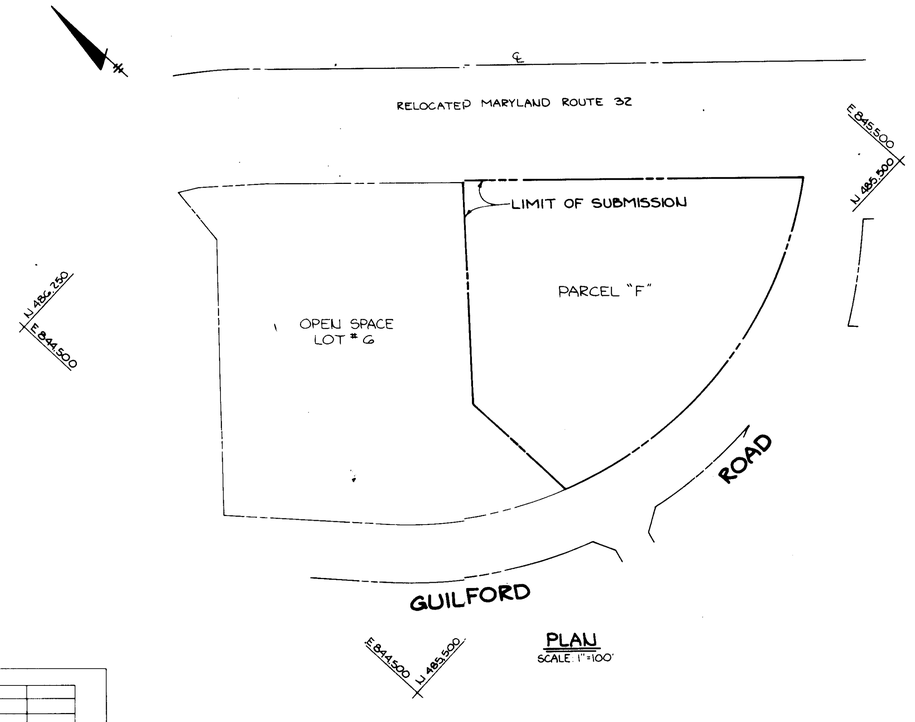
1. ALL WATER LINES SHALL BE CONSTRUCTED A MINIMUM OF 42" COVER BELOW FINISHED GRADE.
2. CORRUGATED STEEL PIPE SECTIONS WILL BE JOINED WITH A SINGLE OR TWO PIECE CORRUGATED BAND WITH A WATERTIGHT NEOPRENE GASKET. DIMPLE BAND CONNECTORS WILL NOT BE PERMITTED.
3. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE HOWARD COUNTY DESIGN MANUAL, VOLUME IV, i.e., STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION.
4. APPROXIMATE LOCATION OF EXISTING UTILITIES ARE SHOWN. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE EXISTING UTILITIES AND MAINTAIN UNINTERRUPTED SERVICE. ANY DAMAGE INCURRED DUE TO CONTRACTOR'S OPERATION SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTOR'S EXPENSE.
5. THE CONTRACTOR SHALL TEST PIT EXISTING UTILITIES , WHERE DIRECTED BY THE ENGINEER, A MINIMUM OF TWO WEEKS IN ADVANCE OF CONSTRUCTION OPERATIONS.
6. CONTRACTOR TO NOTIFY THE FOLLOWING UTILITIES OR AGENCIES AT LEASE FIVE DAYS BEFORE STARTING WORK SHOWN ON THESE DRAWINGS:

MISS UTILITY	559-0100
C & P TELEPHONE COMPANY	725-9976
HOWARD COUNTY BUREAU OF UTILITIES	992-2366
AT&T CABLE LOCATION DIVISION	393-3553
BALTIMORE GAS AND ELECTRIC COMPANY	685-0123
STATE HIGHWAY ADMINISTRATION	531-5533
HOWARD COUNTY CONSTRUCTION/INSPECTION SURVEY DIVISION (24 HOURS NOTICE PRIOR TO COMMENCEMENT OF WORK)	792-7272

7. ALL INLETS SHALL BE CONSTRUCTED IN ACCORDANCE WITH HOWARD COUNTY STANDARDS.
8. ALL PIPE ELEVATIONS SHOWN ARE INVERT ⓘ ELEVATIONS.
9. THE CONTRACTOR SHALL PROVIDE A JOINT IN ALL SEWER MAINS WITHIN 2'-0" OF EXTERIOR MANHOLE WALLS.
10. PROFILE STATIONS SHALL BE ADJUSTED AS NECESSARY TO CONFORM TO PLAN DIMENSIONS.
11. NO PIPE SHALL BE LAID UNTIL LINES OF EXCAVATION HAVE BEEN BROUGHT TO SUBGRADE.
12. TOPO TAKEN FROM FIELD RUN SURVEY DATED JULY , 1984 BY THE RIEMER GROUP INC.
13. ALL PLAN DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED.
14. ALL STORM DRAIN PIPE BEDDING SHALL BE CLASS 'C' AS SHOWN IN FIG. 11.4 IN VOLUME 1 OF HOWARD COUNTY DESIGN MANUAL UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
15. FOR CHANGE IN SIDEWALK TEXTURE AT BUILDING ENTRANCE SEE ARCHITECTS PLAN L-1

SITE TABULATION
As Per Final Development Plan Criteria - 187-A

TOTAL AREA	3.425 Ac. (149,189 SF)
ZONING	New Town: Employment Center - Industrial
PROPOSED USE	Office
BUILDING COVERAGE Permitted (50%)	74,592 SF
BUILDING COVERAGE Proposed (13.3%)	19,800 SF
PARKING REQUIRED @ 2 Spaces per 1000 SF Net Leasable Area 50,000 SF NLA	100 Parking Spaces
PARKING PROPOSED Includes 6 Handicapped Spaces	200 Parking Spaces



PLAN
SCALE 1"=100'

NORTHEAST BUILDING ELEVATION
SCALE 1"=30'

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT.
COUNTY HEALTH OFFICER — DATE 1-8-85

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING.
PLANNING DIRECTOR — DATE 1-9-85
CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION — DATE 1-7-85

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS.
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
DIRECTOR — DATE 1-7-85
CHIEF, BUREAU OF ENGINEERING — DATE 1-7-85

DATE	NO	REVISION

OWNER / DEVELOPER
QUARRY-32 LIMITED PARTNERSHIP
C/O TALKIN & ABRAMSON
5560 STERRETT PLACE
SUITE 105
COLUMBIA, MARYLAND 21044

PROJECT
RIVERS-PARCEL 'F'

AREA RECORD PLAT RECORDING REFERENCE NO. 5335
RIVERS CORPORATE PARK
SECTION 2 AREA 1 PARCEL 'F'
6TH ELECTION DISTRICT HOWARD COUNTY MARYLAND

TITLE
TITLE SHEET

APPROVED
PLANNING BOARD
OF HOWARD COUNTY
DATE 10-31-84

ADDRESS CHART	
LOT NUMBER	STREET ADDRESS
'F'	3175 GUILFORD ROAD

SUBDIVISION NAME: RIVERS CORPORATE PARK				SECT./AREA: 1 / 2		LOT/PARCEL #: "F"
PLAT # OR L/F: 5335	BLOCK #: 15	ZONE: NT-IND	TAX/ZONE MAP: 42	ELEC DIST: 6TH	CENSUS TR: 6062	
WATER CODE		SEWER CODE				

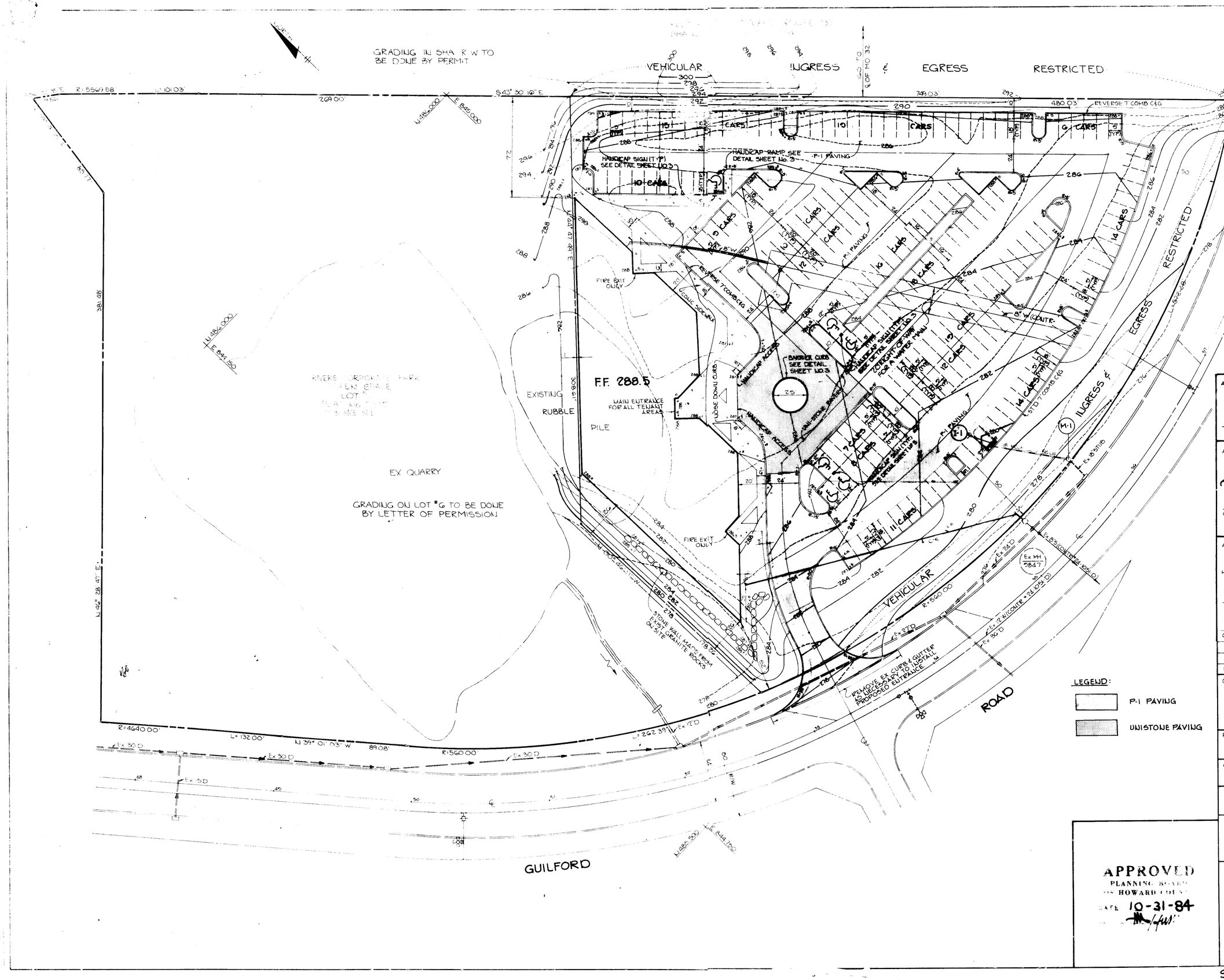
THE RIEMER GROUP, INC.
A LAND PLANNING, DESIGN & CIVIL ENGINEERING FIRM
3105 WEALTH PARK DRIVE, ELLICOTT CITY, MD. 21043 301 461-2690

12-26-84 DATE
STEPHEN E. RIEMER — No. 8197 — REGISTERED PROFESSIONAL ENGINEER

DESIGNED BY	D.A.M
DRAWN BY	T.J.M
PROJECT NO	010700
DATE	9-14-84
SCALE	AS SHOWN
DRAWING NO.	1 OF 6

SDP-85-53c

MARYLAND BLUEPRINT CO., INC.



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

COUNTY HEALTH OFFICER — DATE 1-8-85

APPROVED HOWARD COUNTY OFFICE OF PLANNING AND ZONING

PLANNING DIRECTOR — DATE 1-9-85

CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION — DATE 9-85

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

HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

DIRECTOR — DATE 1-7-85

CHIEF, BUREAU OF ENGINEERING — DATE 1-7-85

DATE	NO	REVISION

OWNER/DEVELOPER
QUARRY-32 LIMITED PARTNERSHIP
c/o TALKIN & ABRAMSON
5560 STERRETT PLACE
SUITE 105
COLUMBIA, MARYLAND 21044

PROJECT
RIVERS - PARCEL 'F'

AREA RECORD PLAT RECORDING REFERENCE NO 5735
RIVERS CORPORATE PARK
SECTION 2 AREA 1 PARCEL
6TH ELECTION DISTRICT HOWARD COUNTY MARYLAND

TITLE
SITE DEVELOPMENT PLAN

THE RIEMER GROUP, INC.
LAND PLANNING, DESIGN & ENGINEERING
SIDE HEALTH PARK DRIVE, ELLICOTT CITY, MD

12-26-84
DATE

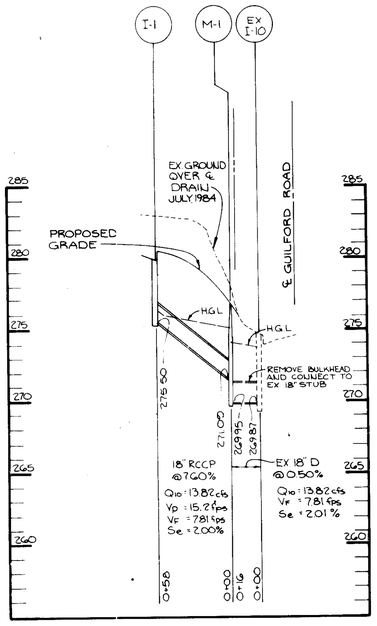
DESIGNED BY
DRAWN BY
PROJECT NO
DATE
SCALE
DRAWING NO

APPROVED
PLANNING BOARD
OF HOWARD COUNTY
DATE 10-31-84

SDP-85-53c

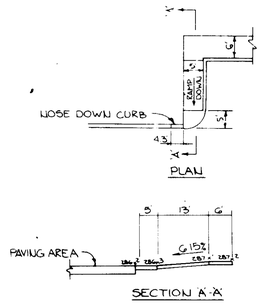
STRUCTURE SCHEDULE

NO	TYPE	LOCATION	INV/IN	INV/OUT	TOP ELEV	REMARKS
	DOUBLE SCOMB	SEE PLAN	------	275.50	279.7	HO CO STD S.D.4.28
	MANHOLE	SEE PLAN	271.00	269.95	276.8	HO CO STD G 5.12



PROFILE

Scale: Horiz - 1"=50'
Vert - 1"=5'

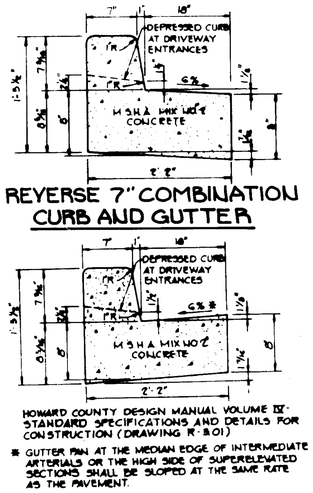


HANDICAP RAMP DETAIL

NO SCALE

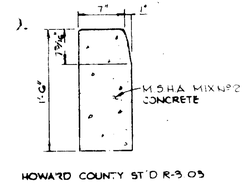
HANDICAP SIGN DETAIL

NO SCALE



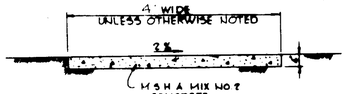
STANDARD 7" COMBINATION CURB AND GUTTER

No Scale



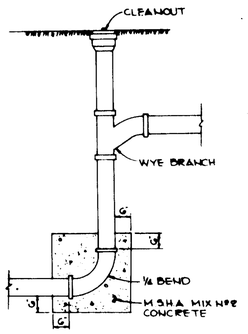
STANDARD BARRIER CURB

No Scale



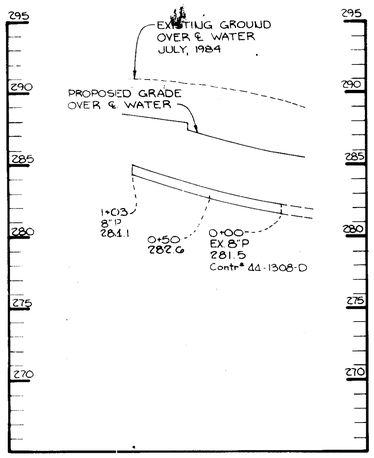
SIDEWALK DETAIL

No Scale



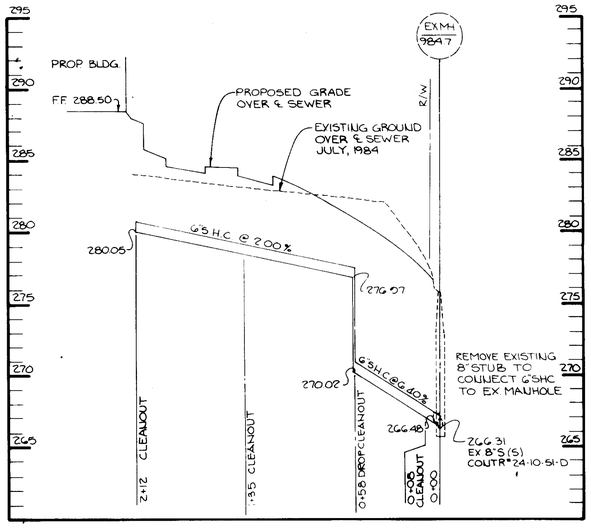
DROP CLEANOUT DETAIL

NO SCALE



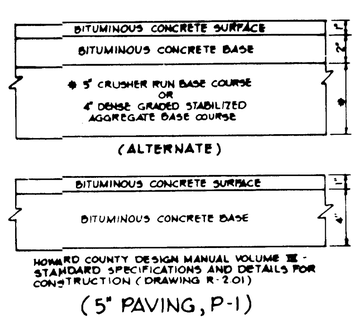
PROFILE

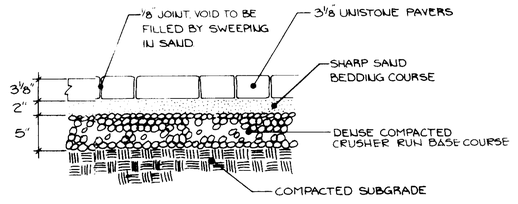
Scale: Horiz - 1"=50'
Vert - 1"=5'



PROFILE

Scale: Horiz - 1"=50'
Vert - 1"=5'





UNISTONE PAVING SECTION

NO SCALE

NOTE SEE ARCHITECTS PLAN L-1 FOR PATTERN & COLOR

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

COUNTY HEALTH OFFICER — DATE 1-8-85

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING.

PLANNING DIRECTOR — DATE 1-9-85

CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION — DATE 1-9-85

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

HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

DIRECTOR — DATE 1-7-85

CHIEF, BUREAU OF ENGINEERING — DATE 1-7-85

APPROVED
PLANNING BOARD OF HOWARD COUNTY
DATE 10-31-84

DATE	NO	REVISION

OWNER / DEVELOPER
QUARRY-32 LIMITED PARTNERSHIP
C/O TALKIN & ABRAMSON
5560 STERRETT PLACE
SUITE 105
COLUMBIA, MARYLAND 21044

PROJECT
RIVERS-PARCEL 'F'

AREA RECORD PLAT RECORDING REFERENCE NO 5335
RIVERS CORPORATE PARK
SECTION 2 AREA 1 PARCEL 'F'
6TH ELECTION DISTRICT HOWARD COUNTY MARYLAND

TITLE
DETAILS AND PROFILES

THE RIEMER GROUP, INC.
A LAND PLANNING, DESIGN & CIVIL ENGINEERING FIRM
3105 HEALTH PARK DRIVE, ELLICOTT CITY, MD. 21043 301 461 2690

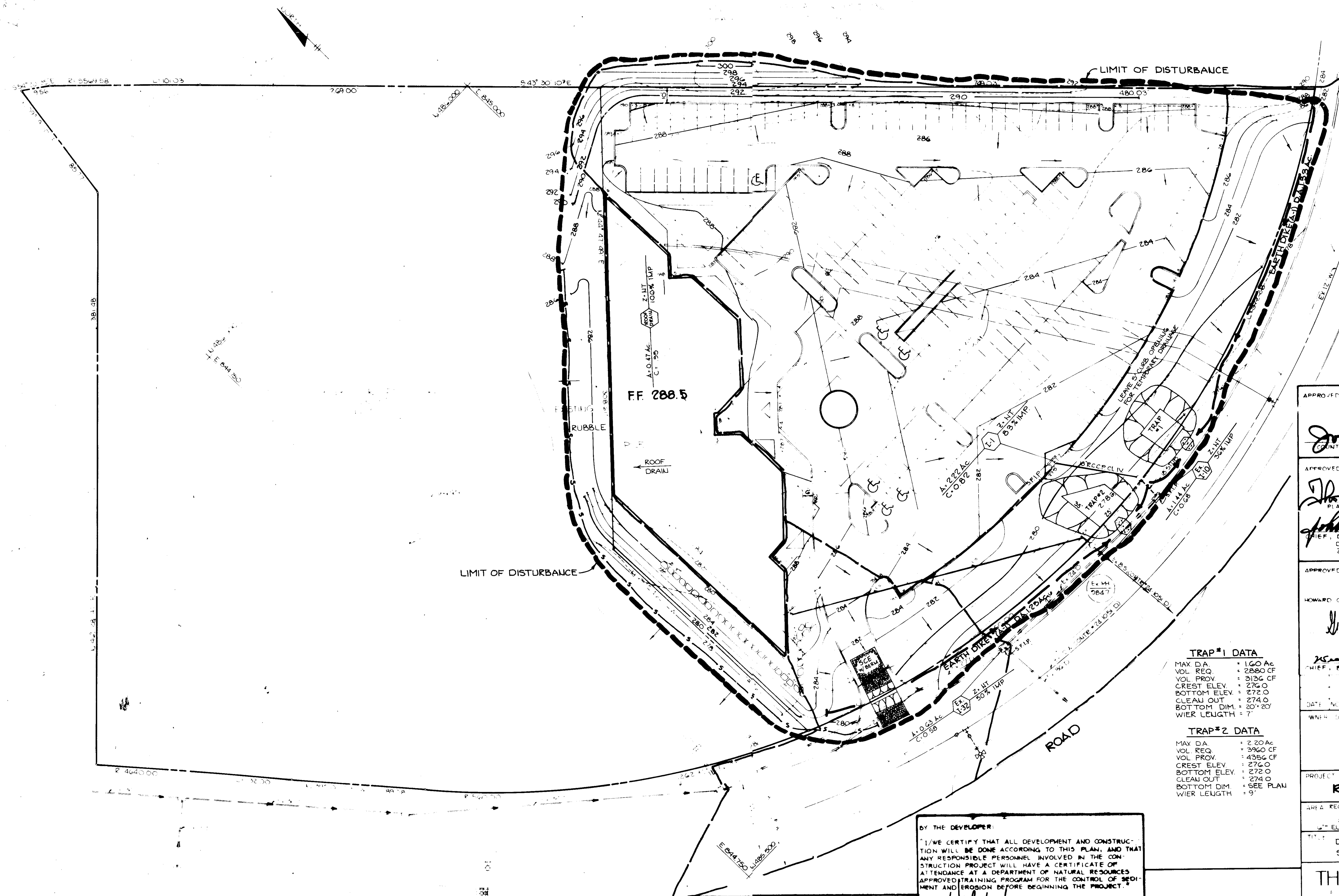
12-26-84 DATE

STATE OF MARYLAND — ARTHUR E. MUEGGE — NO. 8193 — REGISTERED PROFESSIONAL ENGINEER

DESIGNED BY	DAM
DRAWN BY	TJM
PROJECT NO	010700
DATE	9-14-84
SCALE	AS SHOWN
DRAWING NO	3 OF 6

SDP-85-53c

MARYLAND BLUEPRINT CO. INC.



TRAP #1 DATA

MAX. D.A.	= 1.60 Ac
VOL. REQ.	= 2880 CF
VOL. PROV.	= 3136 CF
CREST ELEV.	= 276.0
BOTTOM ELEV.	= 272.0
CLEAN OUT	= 274.0
BOTTOM DIM.	= 20'x20'
WIER LENGTH	= 7'

TRAP #2 DATA

MAX. D.A.	= 2.20 Ac
VOL. REQ.	= 3960 CF
VOL. PROV.	= 4356 CF
CREST ELEV.	= 276.0
BOTTOM ELEV.	= 272.0
CLEAN OUT	= 274.0
BOTTOM DIM.	= SEE PLAN
WIER LENGTH	= 9'

REVIEWED FOR Howard S.C.D.
NAME
AND MEETS TECHNICAL REQUIREMENTS
James M. Helm Jr. 1/3/85
U.S. SOIL CONSERVATION SERVICE DATE

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT
Stephen L. Kuhn 1/3/85
HOWARD S.C.D. 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."
12.26.84
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. Mueggé 12.26.84
ENGINEER DATE

APPROVED
PLANNING BOARD OF HOWARD COUNTY
DATE 10-31-84

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT
1-8-85
COUNTY HEALTH OFFICER DATE

APPROVED HOWARD COUNTY OFFICE OF PLANNING AND ZONING
Thomas G. Harris 1-9-85
PLANNING DIRECTOR DATE
1-9-85
CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION DATE

APPROVED FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
1-7-85
DIRECTOR DATE
1-7-85
CHIEF, BUREAU OF ENGINEERING DATE

DATE NO. REVISION

OWNER DEVELOPER
QUARRY-32 LIMITED PARTNERSHIP
C/O TALKIN & ABRAMSON
5560 STERRETT PLACE
SUITE 105
COLUMBIA, MARYLAND 21044

PROJECT
RIVERS - PARCEL 'F'

AREA RECORD PLAT RECORDING REFERENCE NO 5335
RIVERS CORPORATE PARK
SECTION 2 AREA PARCEL F
6TH ELECTION DISTRICT HOWARD COUNTY MARYLAND

TITLE
DRAINAGE AREA MAP AND SEDIMENT CONTROL PLAN

THE RIEMER GROUP, INC.

12.26.84
DATE
STATE OF MARYLAND · ARTHUR E. MUEGGE III · NO. 8707 REGISTERED · PROFESSIONAL ENGINEER
Arthur E. Mueggé

DESIGNED BY K.B.
DRAWN BY
PROJECT NO.
DATE 9-14-84
SCALE
DRAWING NO. 4 OF 6

SDP-85-53c

SEDIMENT AND EROSION CONTROL NOTES

GENERAL NOTES

1. A minimum of 24 hours notice must be given to the Howard County Office of Inspections and Permits prior to the start of any construction. (992-2437)
2. All sediment control structures will be installed in accordance with '1983 Maryland Standards and Specifications for Soil Erosion and 'Sediment Control' as published by Soil Conservation Service, Water Resources Administration and State Soil Conservation Committee.
3. Site grading will begin only after all perimeter sediment control measures have been installed and are in a functioning condition.
4. All perimeter sediment control structures, dikes, swales, ditches, perimeter slopes and all slopes greater than 3:1 will be stabilized with in (7) seven calander days and all other disturbed or graded areas on the site with in (14) fourteen calender days.
5. Sediment will be removed from traps when its depth reaches the clean out elevation shown on the plans.
6. Fertilizer and lime rates may be changed through authorization by the Howard Soil Conservation District if soil test determine a reduction in the specified rates is justified.
7. 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.
8. References called for on the sediment control construction plan and details are made to '1983 Maryland Standards and Specifications for Soil Erosion and Sediment Control.'
9. Sediment control will be installed before clearing and grubbing remainder
10. All sediment traps and basins shall be fenced and warning signs posted around their perimeter in accordance with Volume I, Chapter 12 of the Howard County Design Manual.

TEMPORARY SEEDING

Area to be seeded shall be recently loosened. If the ground is packed, crusted or hard, the top layer of soil shall be loosened by discing, raking or other acceptable means.

A. Apply 10-20-10 fertilizer (or equivalent) at the rate of 600 lbs. per acre or 15 lbs. per 1000 square feet.
B. Where soil is known to be highly acid, apply dolomitic limestone at the rate of 1 ton per acre.
C. Work both into soil and seed with cyclone seeder, drill, cultipacker seeder or hydroseeder (slurry will include seed and fertilizer) at the rate of 40 lbs. per acre of Italian or perennial ryegrass.
D. Mulch with unweathered small grain straw at the rate of 1½ to 2 tons, per acre and anchor with a cutback asphalt or emulsified asphalt at the rate of 5 gal. per 1000 square feet.

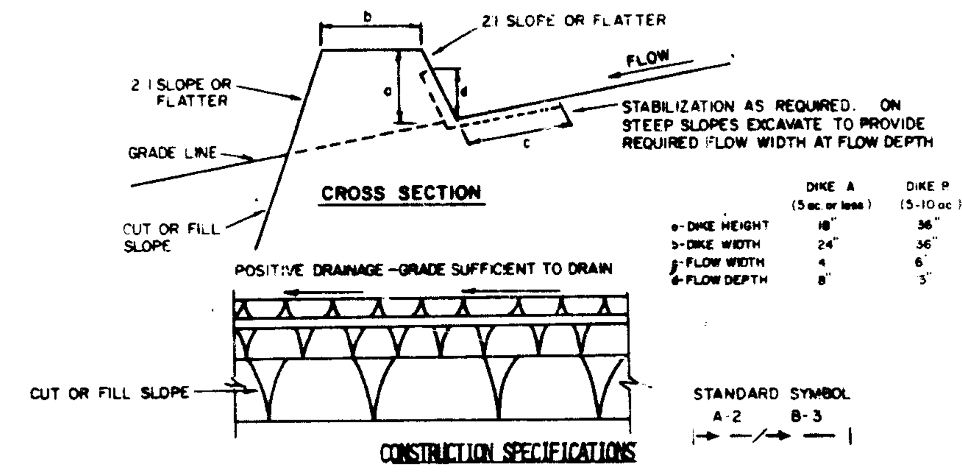
PERMANENT SEEDING

Final stabilization will take place as soon as possible as weather conditions permit, as follows:

A. Apply dolomitic limestone at the rate of 2 tons per acre (one ton per acre if application of ton per acre was made for temporary seeding.)
B. Apply 0-20-20 fertilizer at the rate of 600 lbs. per acre harrow or disc lime and 0-20-20 fertilizer into the soil to a minimum depth of 3" lawns or high maintenance areas will be dragged and leveled with a York rake. At the time of seeding apply 400 pounds of 30-0-0 ureaform fertilizer and 500 lbs. of 10-20-20 or equivalent fertilizer per acre.
C. Seed with a mixture of certified "Merion" Kentucky bluegrass - 40 lbs. per acre; common Kentucky bluegrass @ 40 lbs. per acre; Red Fescue, Pennlawn or Jamestown @ 20 lbs. per acre.
D. Mulch with unweathered small grain straw at the rate of 1½ to 2 tons per acre and anchor with a cutback asphalt or emulsified asphalt at the rate of 5 gallons per 1000 square feet.
E. Seed all slopes with a mixture of certified Kentucky 31 tall fescue @ 50 lbs. per acre and inoculated Korean Lespedeza @ 15 lbs. per acre.
F. Sodded swales shall be Kentucky 31 tall fescue.

SEQUENCE OF CONSTRUCTION

1. OBTAIN GRADING PERMIT.
2. INSTALL STABILIZED CONSTRUCTION ENTRANCE, DIVERSION DIKES, SEDIMENT TRAPS NO. 1 AND NO. 2 AND SILT FENCE.
3. GRADE TO SUBGRADE.
4. INSTALL WATER, SEWER AND STORM DRAINAGE, BLOCKING STORM DRAIN INLETS IN ACCORDANCE WITH THE DETAIL PROVIDED.
5. COMPLETE REMAINING CONSTRUCTION AND STABILIZE ALL DISTURBED AREAS IN ACCORDANCE WITH THE PERMANENT SEEDING NOTES.
6. UPON PERMISSION OF THE SEDIMENT CONTROL INSPECTOR, REMOVE ALL SEDIMENT CONTROLS AND STABILIZE AREAS IN ACCORDANCE WITH THE PERMANENT SEEDING NOTES.



CONSTRUCTION SPECIFICATIONS

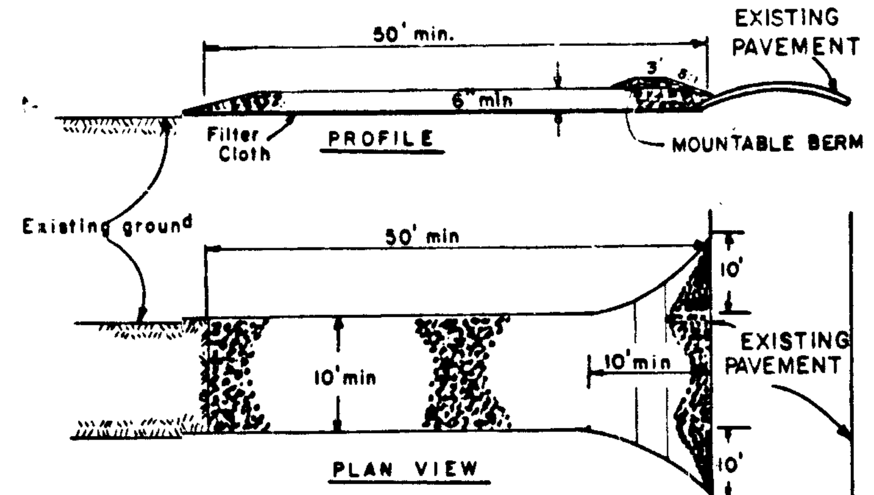
1. ALL DIKES SHALL BE COMPACTED BY EARTH-MOVING EQUIPMENT.
2. ALL DIKES SHALL HAVE POSITIVE DRAINAGE TO AN OUTLET.
3. TOP WIDTH MAY BE WIDER AND SIDE SLOPES MAY BE FLATTER IF DESIRED TO FACILITATE CROSSING BY CONSTRUCTION TRAFFIC.
4. FIELD LOCATION SHOULD BE ADJUSTED AS NEEDED TO UTILIZE A STABILIZED SAFE OUTLET.
5. 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.
6. 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.

FLOW CHANNEL STABILIZATION

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 EXCELSIOR; 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.

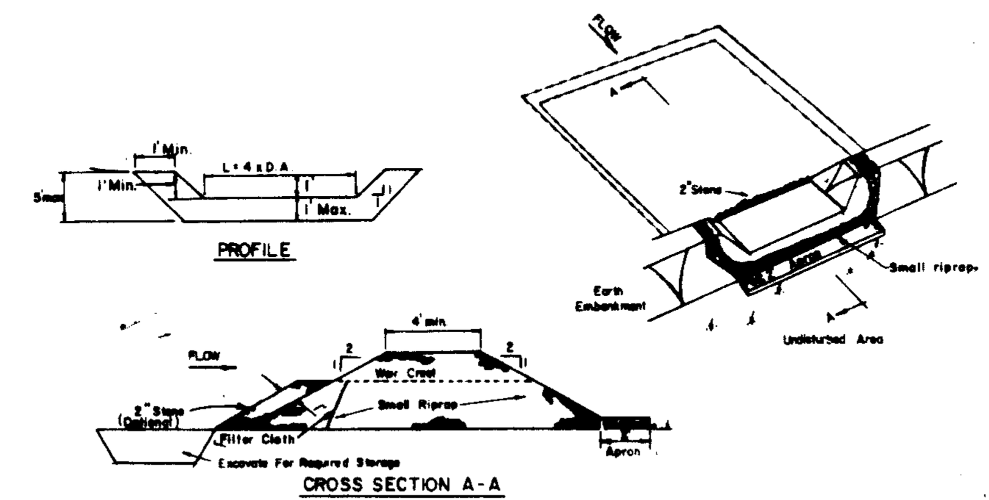
EARTH DIKE
NO SCALE



CONSTRUCTION SPECIFICATIONS

1. Stone Size - Use 2" stone, or reclaimed or recycled concrete equivalent.
2. Length - As required, but not less than 50 feet (except on a single residence lot where a 30 foot minimum length would apply).
3. Thickness - Not less than six (6) inches.
4. Width - Ten (10) foot minimum, but not less than the full width at points where ingress or egress occurs.
5. 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.
6. 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.
7. 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.
8. 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.
9. Periodic inspection and needed maintenance shall be provided after each rain.

STABILIZED CONSTRUCTION ENTRANCE WITH BERM
NO SCALE

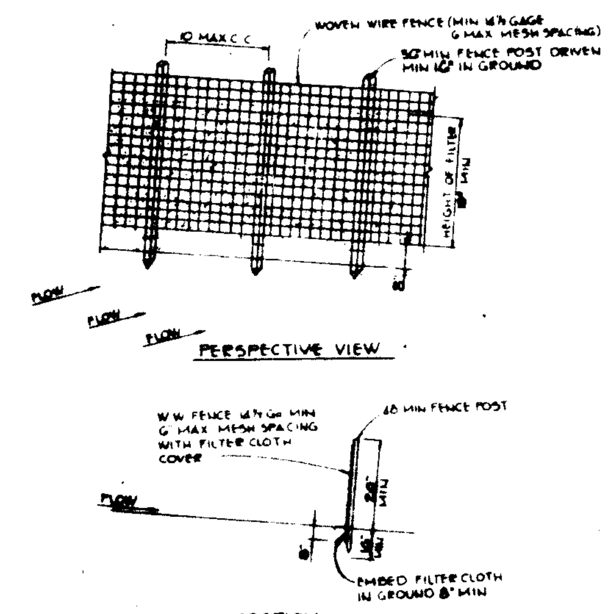


OPTION: A one foot layer of 2" stone may be placed on the upstream side of the riprap in place of the embedded filter cloth.

CONSTRUCTION SPECIFICATIONS FOR ST-V

1. Area under embankment shall be cleared, grubbed and stripped of any vegetation and root mat. The pool area shall be cleared.
2. The fill material for the embankment shall be free of roots and other woody vegetation as well as over-sized stones, rocks, organic material or other objectionable material. The embankment shall be compacted by traversing with equipment while it is being constructed.
3. All cut and fill slopes shall be 2:1 or flatter.
4. The stone used in the outlet shall be small riprap 4"-8" along with a 1' thickness of 2" aggregate placed on the up-grade side on the small riprap OR embedded filter cloth in the riprap.
5. Sediment shall be removed and trap restored to its original dimensions when the sediment has accumulated to ½ the design depth of the trap.
6. The structure shall be inspected after each rain and repairs made as needed.
7. Construction operations shall be carried out in such a manner than erosion and water pollution is minimized.
8. The structure shall be removed and the area stabilized when the drainage area has been properly stabilized.

STONE OUTLET SEDIMENT TRAP
NO SCALE



CONSTRUCTION NOTES

1 WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POST WITH WIRE TIES OR STAPLES
2 FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH WIRE TIES SPACED EVERY 24" AT TOP AND MID SECTION

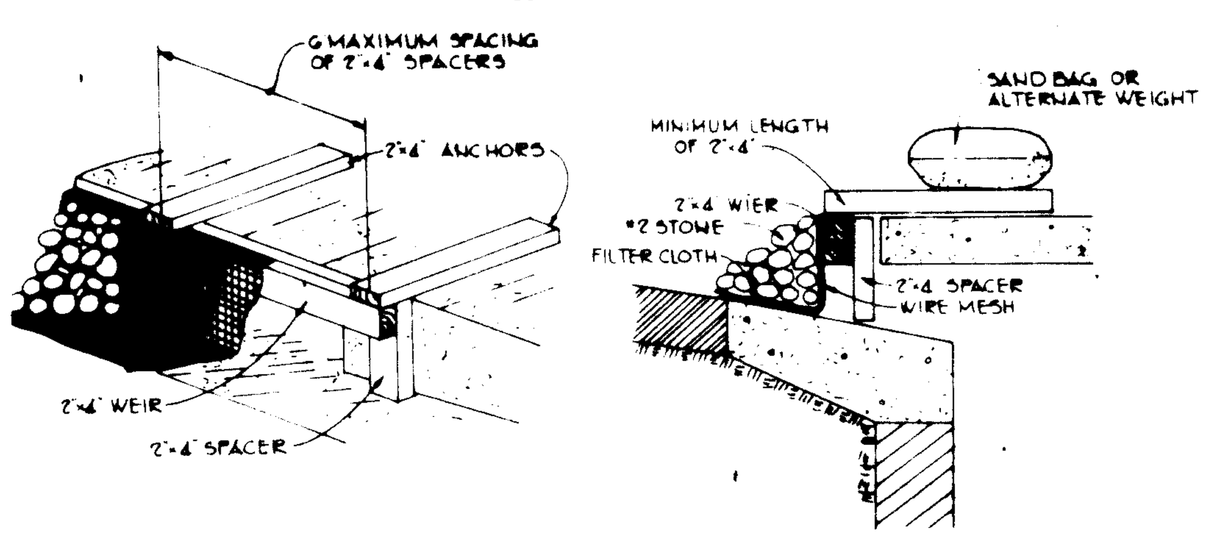
POST: STEEL EITHER T OR U TYPE OR 2" HARDWOOD
FENCE: WOVEN WIRE, 14½ Ga. MAX 6" MESH OPENING
FILTER CLOTH: FILTER X, MIRIFI 100X, LAUREL EROSION CONTROL CLOTH, BIDIM, POLYFILTER X OR EQUAL

STANDARD SYMBOL ——S——S——

SILT FENCE DETAIL
NO SCALE

SITE ANALYSIS

TOTAL DISTURBED AREA	3.75 Ac.
AREA TO BE REVEGETATED	1.57 Ac.
ROOFED AREA	.45 Ac.
PAVED AREA	1.40 Ac.



INLET BLOCKING DETAIL
NO SCALE

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."

[signature] DEVELOPER — 12-26-84 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 — 12-26-84 DATE

REVIEWED FOR Howard S.C.D. (NAME) AND MEETS TECHNICAL REQUIREMENTS

James M. Helmer U.S. SOIL CONSERVATION SERVICE — 1/3/85 DATE

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

Stephen L. Hiler HOWARD S.C.D. — 1/3/85 DATE

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

[signature] COUNTY HEALTH OFFICER — 1-8-85 DATE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING.

Thomas G. Harris PLANNING DIRECTOR — 1-9-85 DATE

[signature] CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION — 1-9-85 DATE

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

HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

George F. Nemeth DIRECTOR — 1-7-85 DATE

[signature] CHIEF, BUREAU OF ENGINEERING — 1-7-85 DATE

DATE	NO	REVISION

OWNER/DEVELOPER
QUARRY-32 LIMITED PARTNERSHIP
c/o TALKIN & ABRAMSON
5560 STERRETT PLACE
SUITE 105
COLUMBIA, MARYLAND 21044

PROJECT
RIVERS - PARCEL 'F'

AREA RECORD PLAT RECORDING REFERENCE NO 5335
RIVERS CORPORATE PARK
SECTION 2 AREA 1 PARCEL F
6TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND

TITLE
SEDIMENT CONTROL NOTES AND DETAILS

THE RIEMER GROUP INC.
A LAND PLANNING, DESIGN & CIVIL ENGINEERING FIRM
3105 HEALTH PARK DRIVE, ELLICOTT CITY, MD. 21043

12-26-84 DATE

STATE OF MARYLAND — ARTHUR E. MUEGGE III — NO. 8707 REGISTERED PROFESSIONAL ENGINEER

Arthur E. Muegge

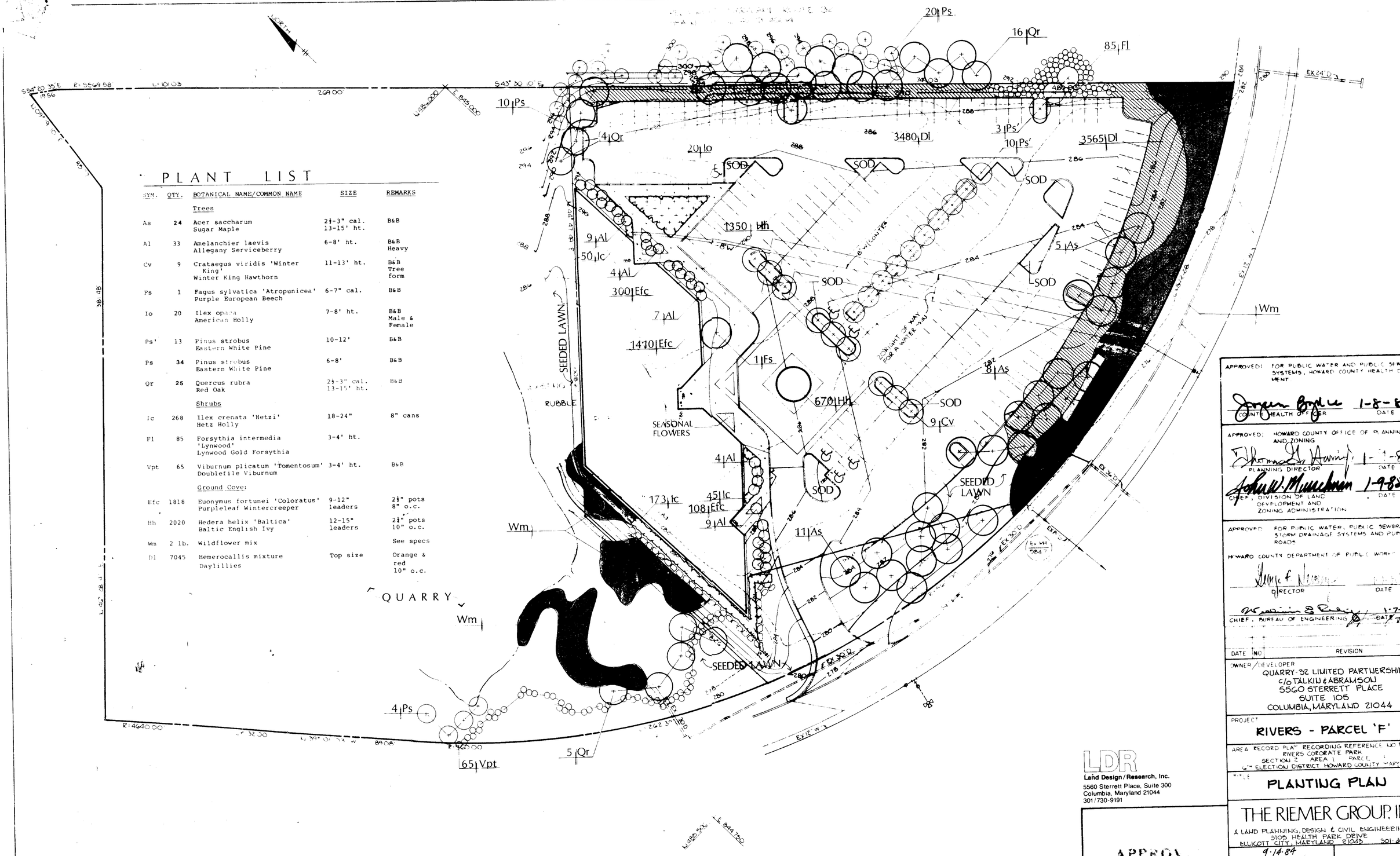
DESIGNED BY JKB
DRAWN BY TJM
PROJECT NO 010700
DATE 9-14-84
SCALE AS SHOWN
DRAWING NO 5 OF 6

APPROVED
PLANNING BOARD
OF HOWARD COUNTY
DATE 10-31-84

SDP-85-53c

PLANT LIST

SYM.	QTY.	BOTANICAL NAME/COMMON NAME	SIZE	REMARKS
		Trees		
As	24	Acer saccharum Sugar Maple	2½-3" cal. 13-15' ht.	B&B
Al	33	Amelanchier laevis Allegany Serviceberry	6-8' ht.	B&B Heavy
Cv	9	Crataegus viridis 'Winter King' Winter King Hawthorn	11-13' ht.	B&B Tree form
Fs	1	Fagus sylvatica 'Atropunicea' Purple European Beech	6-7" cal.	B&B
Io	20	Ilex opaca American Holly	7-8' ht.	B&B Male & Female
Ps'	13	Pinus strobus Eastern White Pine	10-12'	B&B
Ps	34	Pinus strobus Eastern White Pine	6-8'	B&B
Qr	25	Quercus rubra Red Oak	2½-3" cal. 13-15' ht.	B&B
		Shrubs		
Ic	268	Ilex crenata 'Hetzi' Hetz Holly	18-24"	8" cans
Fl	85	Forsythia intermedia 'Lynwood' Lynwood Gold Forsythia	3-4' ht.	
Vpt	65	Viburnum plicatum 'Tomentosum' Doublefile Viburnum	3-4' ht.	B&B
		Ground Cove:		
Efc	1818	Euonymus fortunei 'Coloratus' Purpleleaf Wintercreeper	9-12" leaders	2¼" pots 8" o.c.
Hh	2020	Hedera helix 'Baltica' Baltic English Ivy	12-15" leaders	2¼" pots 10" o.c.
Wm	2 lb.	Wildflower mix		See specs
Dl	7045	Hemerocallis mixture Daylillies	Top size	Orange & red 10" o.c.



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

COUNTY HEALTH OFFICER — DATE 1-8-85

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING

PLANNING DIRECTOR — DATE 1-7-85

CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION — DATE 1-9-85

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

HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

DIRECTOR — DATE

CHIEF, BUREAU OF ENGINEERING — DATE 1-7-85

DATE	NO	REVISION

OWNER/DEVELOPER
QUARRY-32 LIMITED PARTNERSHIP
c/o TALKIN & ABRAMSON
5560 STERRETT PLACE
SUITE 105
COLUMBIA, MARYLAND 21044

PROJECT
RIVERS - PARCEL 'F'

AREA RECORD PLAT RECORDING REFERENCE LIBER 5335
RIVERS CORPORATE PARK
SECTION 2 AREA 1 PARCEL F
6TH ELECTION DISTRICT HOWARD COUNTY MARYLAND

TITLE
PLANTING PLAN

LDR
Land Design/Research, Inc.
5560 Sterrett Place, Suite 300
Columbia, Maryland 21044
301/730-9191

APPROVED
DEPARTMENT OF PLANNING AND ZONING
DATE 10-31-84

THE RIEMER GROUP, INC.
A LAND PLANNING, DESIGN & CIVIL ENGINEERING FIRM
3109 HEALTH PARK DRIVE
ELLICOTT CITY, MARYLAND 21043 301-461-8600

9-14-84
DATE

STATE OF MARYLAND — NORTON H. CRAWFORD — No. 400 — REGISTERED LANDSCAPE ARCHITECT

DESIGNED BY	[illegible]
DRAWN BY	[illegible]
PROJECT NO	00700
DATE	9-14-84
SCALE	1" = 20'
DRAWING NO	6 OF 6

SDP-85-53, DECEMBER 20, 1984