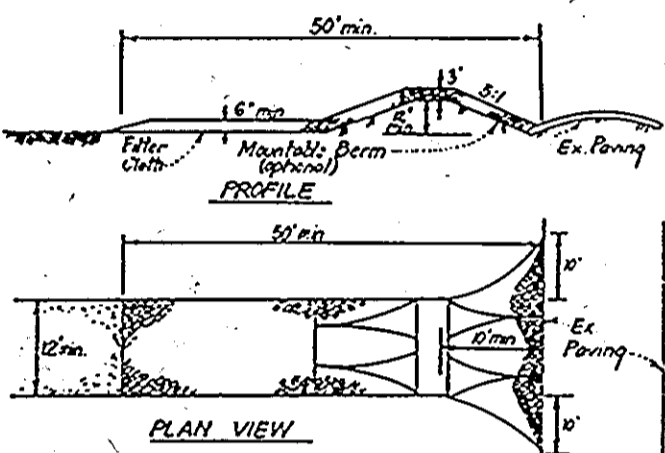


SEDIMENT AND EROSION CONTROL NOTES

- 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. (311-1853)
- 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 SPECS. 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 them 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 seedings (Sec. 51), sod (Sec. 54), temporary seedings (Sec. 50) and mulching (Sec. 52). Temporary stabilization with mulch alone can only be done when recommended seeding dates do not allow for proper germination and establishment of grasses.
- All sediment control structures are to remain in place and are to be maintained in operative condition until permission for their removal has been obtained from the Howard County Sediment Control Inspector.
- SITE ANALYSIS:**

Total Area of Site:	1.476 Ac.
Area Disturbed:	0.385 Ac.
Area to be reseeded or sodded:	0.182 Ac.
Area to be vegetatively stabilized:	0.203 Ac.
Total Cut:	60,000 cu. yd.
Total Fill:	1,282 cu. yd.
Offsite Waste/Borrow Area Location:	
- Any sediment control practice which is disturbed by grading activity for placement of utilities must be repaired on the same day of disturbance.
- Additional sediment control must be provided, if deemed necessary by the Howard County 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 sediment controls, 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.
- The total amount of silt fence = **385 LF**

* It is the responsibility of the contractor to identify the spot/borrow site and notify and gain approval from the sediment control inspector of the site and it's grading permit number at the time of construction.



- CONSTRUCTION SPECIFICATIONS:**
- Stone size - Use 2" stone, or rounded or recycled concrete equivalent.
 - Length - As required, but not less than 10' (exception a single residence lot where a 6' length may apply).
 - Thickness - Not less than six (6) inches.
 - Width - Ten (10) feet minimum, but not less than the full width of points where erosion occurs.
 - Filter Cloth - Will be placed over the entire area prior to placing of stone. Filter cloth will be replaced and silt fence replaced as needed.
 - Surface Water - All surface water flowing or directed toward construction entrances shall be piped across the entrance. If piping is impractical, a mound of earth with 3:1 slopes will be permitted.
 - Maintenance - The entrance shall be maintained in a condition which will prevent tracking or flowing of sediment onto adjacent property. This may require periodic top dressing with additional stone by hand, or other means, for removal of any rocks and to keep openings. All sediment shall be removed or treated and silt fence replaced as needed.
 - Wetlands - Wetlands shall be checked for removal of sediment prior to entrance onto public rights-of-way. Where necessary, it shall be done in an area established with one and one-half (1.5) foot approved sediment trapping device.
 - Periodic inspection and needed maintenance shall be provided after each rain.

STABILIZED CONSTRUCTION ENTRANCE (SCE)

Lot No.	Gross Area	Impervious Area	Remain. Area	100% P.F.	25% Slope Slope	Min. Lot Size
3	91,029 S.F.	0	31,030 S.F.	87.93.12	0	28,235.86 S.F.
4	182,794 S.F.	0	32,794 S.F.	14051.08	0	28,742.92 S.F.

CONSTRUCTION SEQUENCE	NO. OF DAYS
1. Obtain grading permit.	
2. Install remaining sediment and erosion control measures.	1
3. Clear and grub site.	2
4. Excavate for foundation, rough grade and temporarily stabilize.	30
5. Construct structures, sidewalks and driveways.	60
6. Final grade and stabilize.	30
7. Upon approval of the Sediment Control Inspector, remove sediment and erosion control measures.	14

APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING
 CHIEF OF DEVELOPMENT ENGINEERING
 DATE 9/18/95
 CHIEF DIVISION OF LAND DEVELOPMENT AND RESEARCH
 DATE 9/20/95
 DIRECTOR
 DATE 9/21/95

NO.	REV. HSE. & QTD. LOT 3, ADD HSE. TYPICAL REVISIONS	DATE
1	Rev. hse. & qtd. lot 3, Add hse. typical REVISIONS	9-9-96

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.) before seeding. Harrow or disc into upper three inches of soil. At the 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 apply 1000 lbs. per acre 10-10-10 fertilizer (25 lbs./1000 sq.ft.) before seeding. Harrow or disc into upper three inches of soil.

SEEDING: For the periods March 1 thru April 30, and August 1 thru October 15, seed with 60 lbs. per acre (1.4 lbs./1000 sq.ft.) of Kentucky 31 Tall Fescue. For the period May 1 thru July 31, seed with 60 lbs. Kentucky 31 Tall Fescue per acre and 2 lbs. per acre (0.5 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 well anchored straw mulch and seed as soon as possible in the spring. Option (2) Use seed. 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.

TEMPORARY SEEDING NOTES

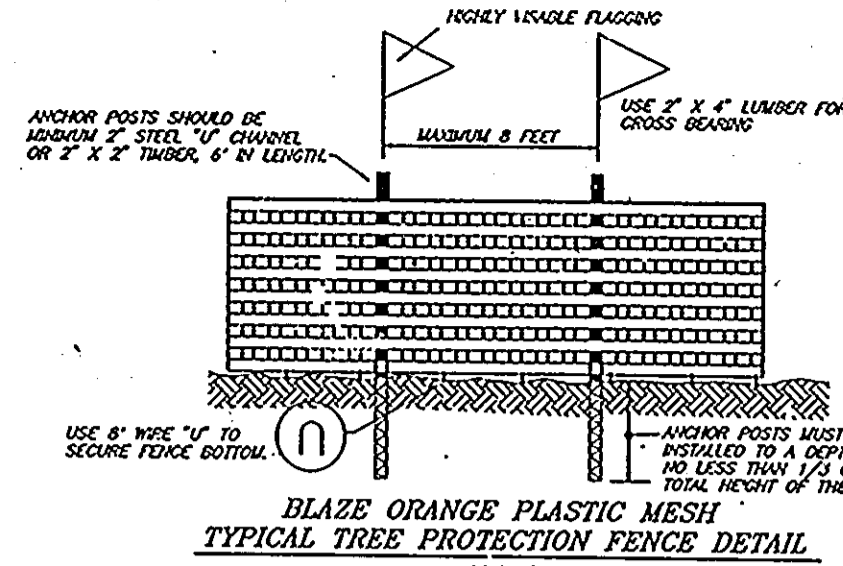
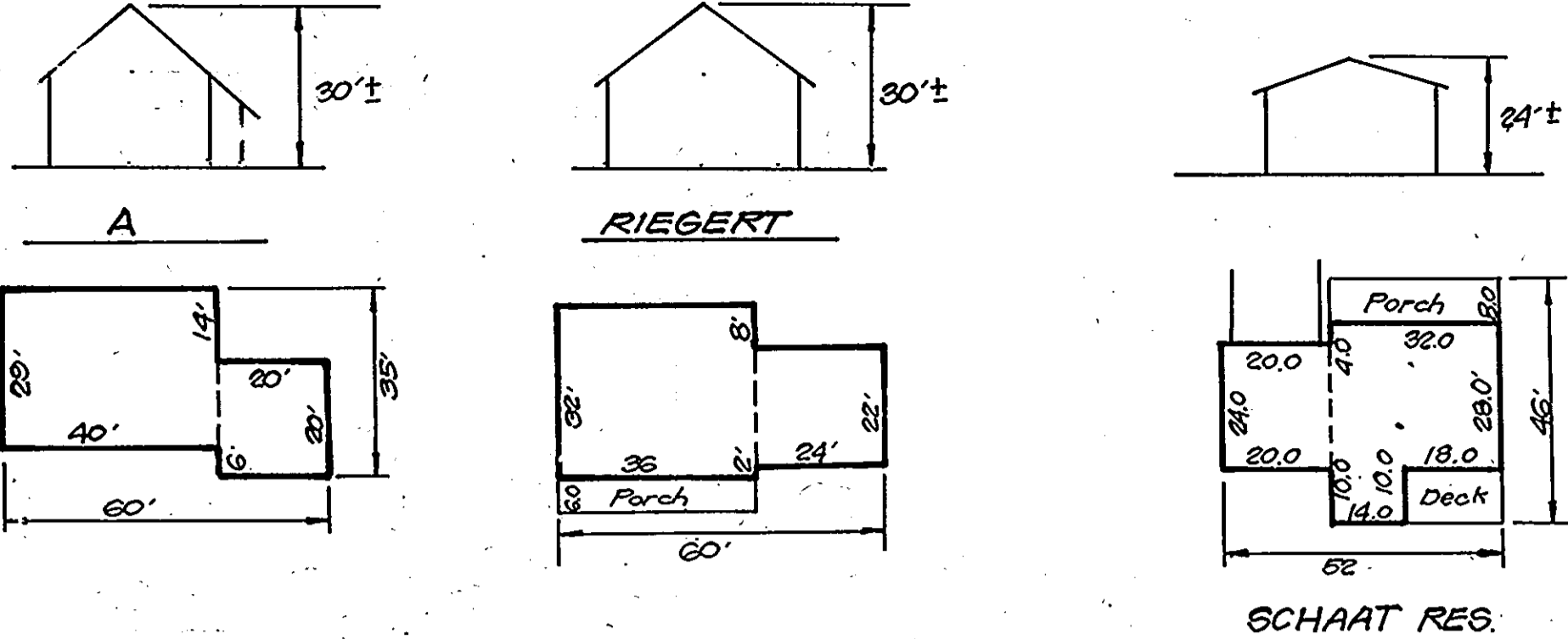
SEEDBED PREPARATION: Loosen upper three inches of soil by raking, discing or other acceptable means before seeding, if not previously loosened.

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 bushels per acre of annual ryegrass (5.2 lbs./1000 sq.ft.). For the period May 1 thru August 14, seed with 3 lbs. per acre of weeping lovegrass (0.7 lbs./1000 sq.ft.). For the period November 1 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.

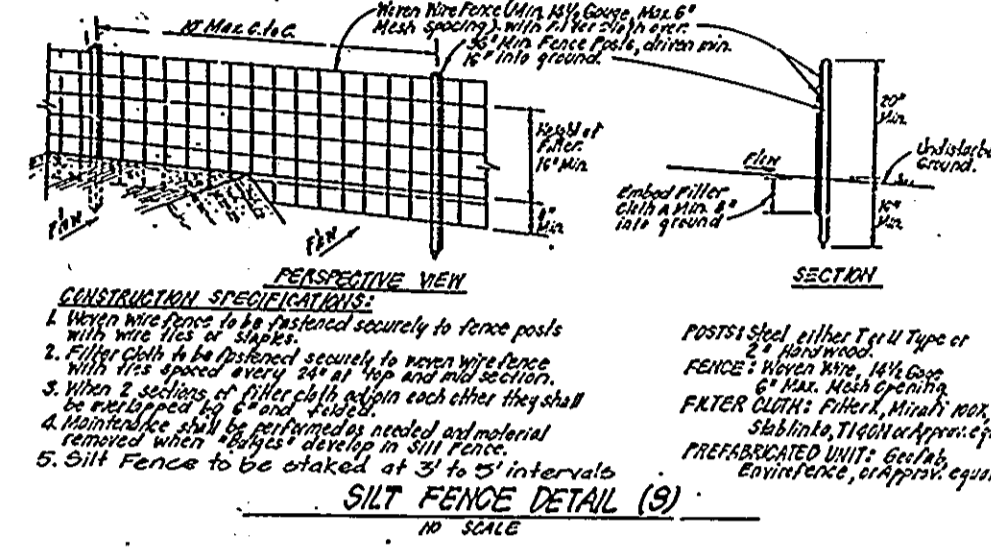
MULCHING: Apply 1 1/2 to 2 tons per acre (70 to 90 lbs./1000 sq.ft.) of unrotted small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gallons per acre (5 gal/1000 sq.ft.) of emulsified asphalt on flat areas. On slopes 8 feet or higher,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

REFER TO THE 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR RATE AND METHODS NOT COVERED.



TYPICAL TREE PROTECTION FENCE DETAIL

- NOTES:**
- Forest protection device only.
 - Retention area will be set as part of the reforestation plan.
 - Boundaries of retention area should be staked and flagged prior to building fence.
 - Rock ditches should be avoided.
 - Protection signage may also be used.
 - Device should be maintained throughout construction.



SILT FENCE DETAIL (3)

- RESPECTIVE VIEW:**
- When site fence is in place, it shall be maintained in a condition which will prevent tracking or flowing of sediment onto adjacent property.
 - Filter cloth shall be placed over the entire area prior to placing of stone.
 - When 2 sections of filter cloth meet, they shall be overlapped and secured with staples or other fasteners.
 - Maintenance shall be performed to keep the fence in good condition.
 - Silt fence to be placed at 3' to 5' intervals.

NOTES CONTINUED

- 100 Year Floodplain Easement taken from Plat 9963 prepared by Boender Associates.
- WP-86-19, Waiver to fill and disturb wetland and stream buffers was approved on 9/11/95.
- Plan subject to MDE Permit No. 93-NF-122/1993 69538 Lot 4 and 199668410 for Lot 3.

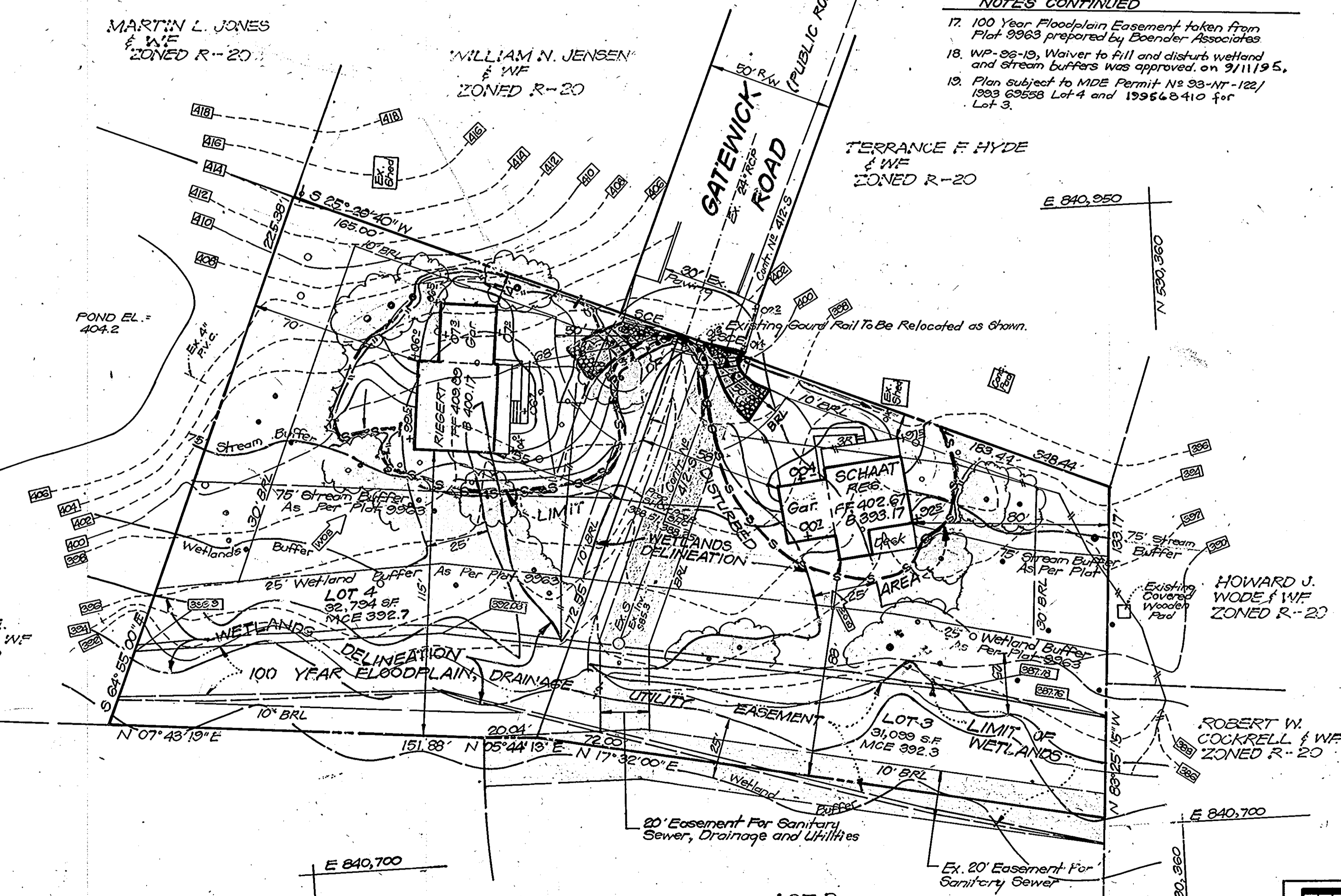
GENERAL NOTES:

- Subject property is zoned: **R-20** per 10-18-93 Comprehensive Zoning Plan.
- The total area included in this submission is: **.467 Ac.** The total area of the project is: **3.416 Ac.**
- The total number of lots included in this submission is: **2** The total number of buildable lots in this project is: **4**
- Improvement to property: **Single Family Detached Units**
- Department of Planning and Zoning reference file numbers are: **WP-86-109, F-91-19, WP-94-19**
- Utilities shown on existing are taken from approved Water and Sewer plan Contract # **412-S** and actual field survey.
- Any damage to county owned rights-of-way shall be corrected at the developer's expense.
- All roadways are public and existing.
- The existing topography was field run by **CLARK, FINEFROCK & SACKETT, INC.** on 5-19-95.
- The coordinates shown hereon are based upon the Howard County Geodetic Control which is based upon the Maryland State Plane Coordinate System NAD 27. H.C. Map No. 3441002 & 3441004.
- The contractor shall notify the Department of Public Works/Division of Construction Inspection at (410) 313-1880 at least twenty-four (24) hours prior to the start of work.
- The contractor shall notify "Miss Utility" at 1-800-257-7777 at least 48 hours prior to any excavation work.
- For driveway entrance details, refer to H.C. Design manual Volume IV details. **R-G.O.G**
- In accordance with Sections 128.A.1.b and .c of the Zoning Regulations, bay windows or chimneys not more than 10 feet in width may project not more than 4 feet into any setbacks; porches and decks may project not more than 10 feet into the front or rear setbacks.
- Stormwater Management quantity control is provided by grading in lieu of construction quality control to be provided by using the existing natural buffers.
- Wetlands redefined by Exploration Research Inc. in June 1995. Original Wetlands Limits were taken from plat 9963

SPECIAL NOTES:

- This plan is for house siting and lot grading only. Improvements shown within the rights-of-way on this S.D.P. are not to be used for construction. For construction, see approved Waiver and Sewer Plans 412-S and 275-D. Public water is to be extended to lots 3 and 4 by 2" WVC from existing main. Contract No. 275-D WVC (In bid of file 1775).
- Clearing and grading are permitted within the 75' stream-bank buffer on Lot 3 in accordance with the Limit of Disturbance shown on the easement. Easement No. 93-02 April 13, 1990 Filed in WF 86-109, per 16.16(c)(1)(b) of H.C. Subdivision Regulations.

SUBMISSION NAME		SECTION/AREA	LOTS/PARCELS
SPITTEL PROPERTY		N/A	3/4
PLAT NO.	BLOCK NO.	ZONE	TAX MAP NO.
9963	20	R-20	17
WATER CODE		ELECTION DIST.	CENSUS TRACT
H-08		2/N/2	6022
SEWER CODE			
5700000			



Reviewed for HOWARD S.C.D. and meets Technical Requirements
 Signature: [Signature]
 Date: 9/18/95
 Natural Resources Conservation Service

DEVELOPER'S/BUILDER'S CERTIFICATE

I hereby certify that all development and construction will be done according to this plan of development and 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 Soil Conservation District or their authorized agents, as are deemed necessary.

Signature: [Signature]
 DATE: 7-7-95

ENGINEER'S CERTIFICATE

I hereby certify that this plan for Sediment and Erosion 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: [Signature]
 DATE: 7-7-95

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

Signature: John R. Robertson
 Approved: 9/13/95

CLARK • FINEFROCK & SACKETT, INC.
 ENGINEERS • PLANNERS • SURVEYORS
 7135 MINSTREL WAY • COLUMBIA, MD. 21045 • (301) 381-7500 • BALTO. • (301) 621-8300 • WASH.

DESIGNED: JME
 DRAWN: BAL
 CHECKED: [Signature]
 DATE: 9/12/95

SITE DEVELOPMENT, SEDIMENT AND EROSION CONTROL PLAN
 LOTS 3 and 4
SPITTEL PROPERTY
 2ND ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

SCALE: AS SHOWN
 DRAWING: 10F1
 JOB NO.: 05-079
 FILE NO.: [Blank]

For: JOHN V. RIEGERT
 P.O. Box 98
 Glenelg, Md. 21537