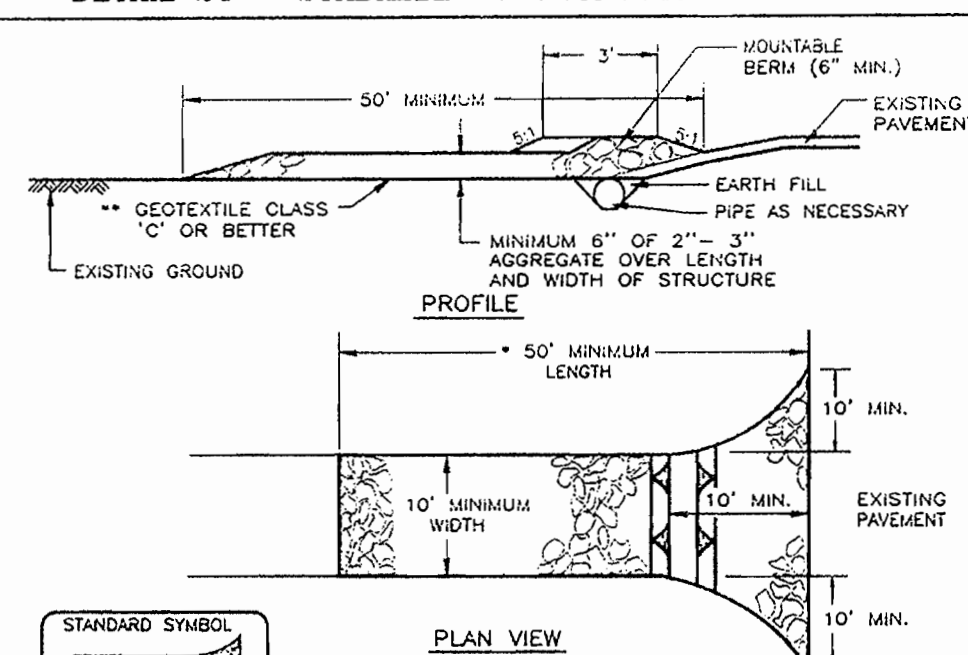
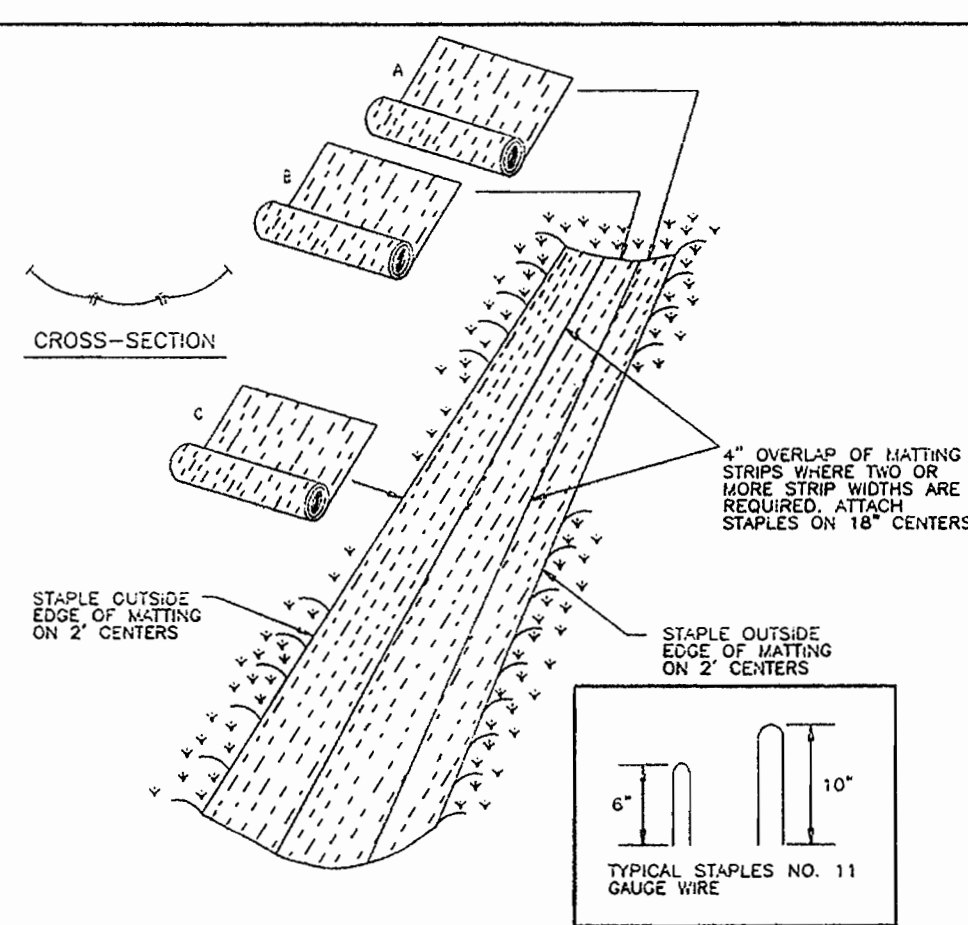


DETAIL 24 - STABILIZED CONSTRUCTION ENTRANCE



Construction Specifications
1. Length - minimum of 50' (+30' for a single residence lot).
2. Width - 10' minimum, should be flared at the existing road to provide a turning radius.
3. Geotextile fabric (filter cloth) shall be placed over the existing ground prior to placing stone...

DETAIL 30 - EROSION CONTROL MATTING



Construction Specifications
1. Lay-in the matting by placing the top ends of the matting in a narrow trench, 6" in depth. Backfill the trench and compact firmly to conform to the channel cross-section.
2. Step the 4" overlap in the channel center using an 18" spacing between staples.

PLANT SCHEDULE (for perimeter edge)
KEY QUANT PLANT NAME SIZE REMARKS
SHADE TREES
AR 15 ACER RUBRUM 'RED SUNSET' 2 1/2 - 3' Cal. B&B Heavy Red Sunset Maple 12 - 14" H.

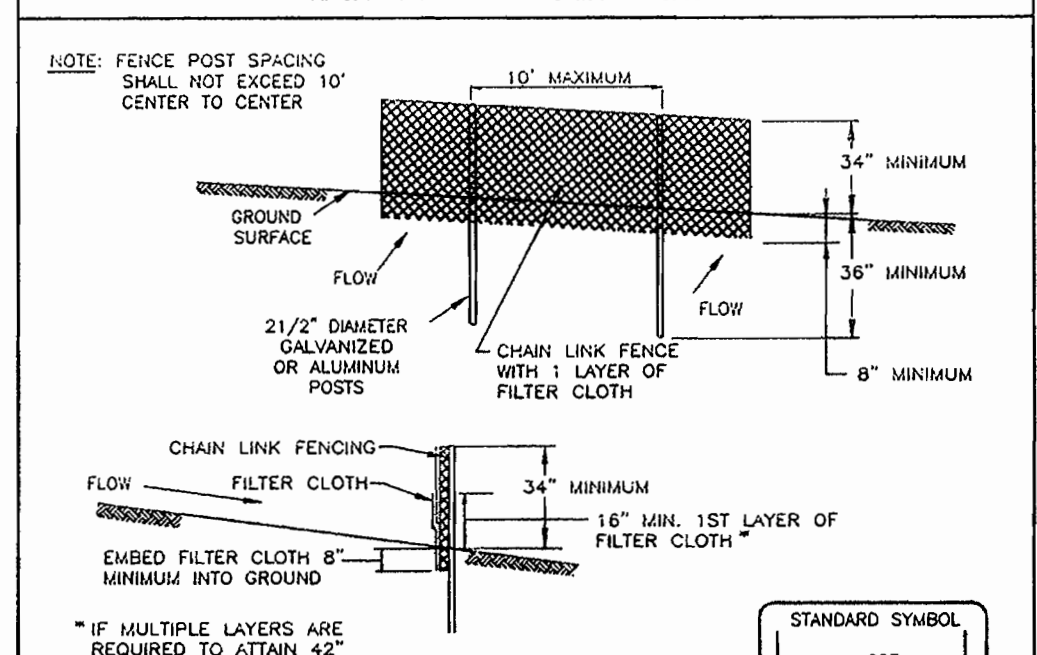
Reviewed for HOWARD S.C.D. and meets Technical Requirements
Signature: [Name] Date: 10-29-03

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

APPROVED: DEPARTMENT OF PLANNING & ZONING
Signature: [Name] Date: 11/4/03

APPROVED: DEPARTMENT OF PLANNING & ZONING
Signature: [Name] Date: 11/5/03

DETAIL 33 - SUPER SILT FENCE



Construction Specifications
1. Fencing shall be 42" in height and constructed in accordance with the latest Maryland State Highway Details for Chain Link Fencing.
2. Chain link fence shall be fastened securely to the fence posts with wire ties. The lower tension wire, brace and truss rods, drive anchors and post caps are not required except on the ends of the fence.

GENERAL NOTES

- 1. The total area included in this submission is: 31,369 SF.
2. The total number of lots included in this submission is: 1.
3. Improvement to property: Single Family Detached.
4. Any damage to county owned rights-of-way shall be corrected at the developer's expense.

21. THIS PLAN IS SUBJECT TO THE 8TH EDITION OF THE SUBDIVISION AND PLANNING REGULATIONS AND THE ZONING REGULATIONS AS AMENDED UNDER CHAPTER 114, 115 AND 116 OF THE HOWARD COUNTY CODE.

LANDSCAPE NOTES:
1. All plant materials shall be full and heavy, be well formed and symmetrical and conform to the most current AAN specifications.

SOILS LEGEND
SYMBOL NAME / DESCRIPTION TYPE
L1 LEONARDTOWN SILT LOAM C
L2C BELTSVILLE SILT LOAM, CLAY SHAPES, SEVERELY ERODED C
L2CE BELTSVILLE SILT LOAM, CLAY SHAPES, MODERATELY ERODED C

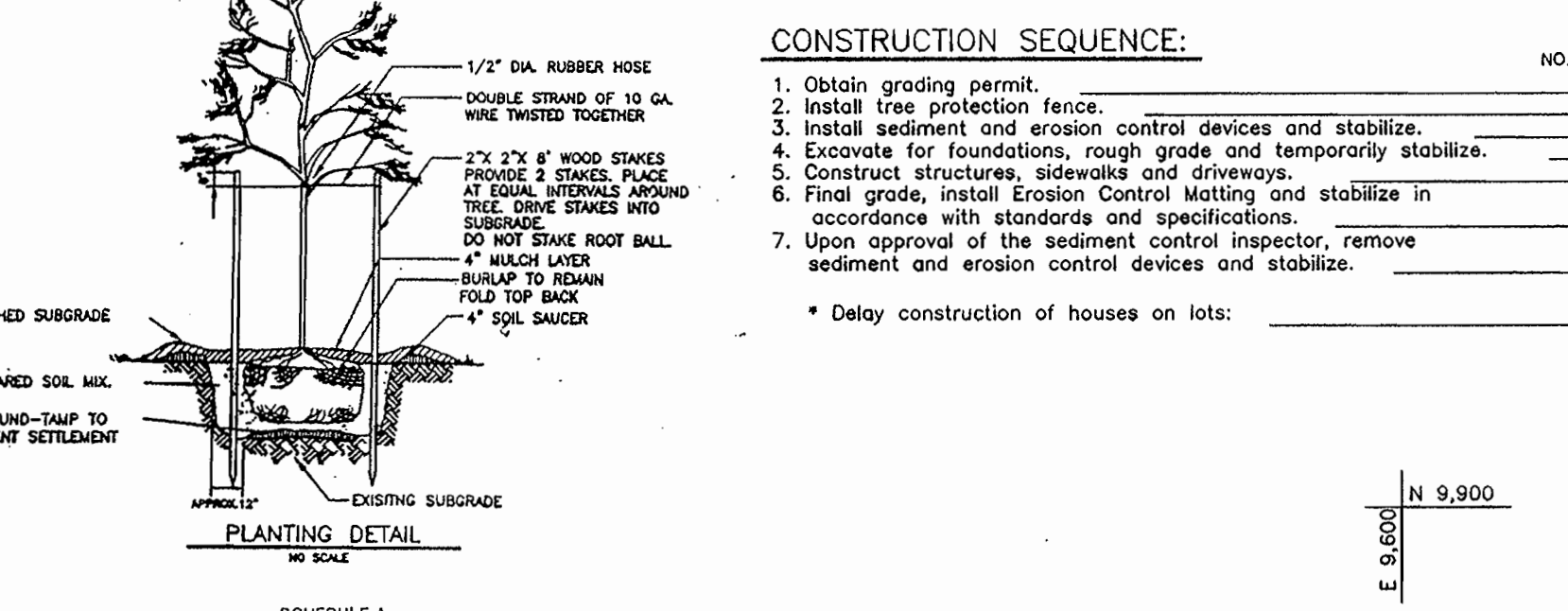
APPROVED: DEPARTMENT OF PLANNING & ZONING
Signature: [Name] Date: 11/4/03

21.0 STANDARDS AND SPECIFICATIONS FOR TOPSOIL

Definition
Placement of topsoil over a prepared subsoil prior to establishment of permanent vegetation.
Purpose
To provide a suitable soil medium for vegetable growth. Soils of concern have low moisture content, low nutrient levels, low pH, materials toxic to plants, and/or unacceptable soil gradation.

CONSTRUCTION SEQUENCE:

- 1. Obtain grading permit.
2. Install tree protection fence.
3. Install sediment and erosion control devices and stabilize.
4. Excavate for foundations, rough grade and temporarily stabilize.
5. Construct structures, sidewalks and driveways.
6. Final grade, install Erosion Control Matting and stabilize in accordance with standards and specifications.



SCHEDULE A PERIMETER LANDSCAPE EDGE
Landscape Type: Linear Feet of Roadway Frontage/Perimeter: 923.31
Credits for Existing Vegetation: 15
Credits for New Plantings: 15

Developer's/Builder's Certificate
I/We certify that the landscaping shown on this plan will be done according to the plan, Section 16.124 of the Howard County Subdivision and Land Development Regulations and the Landscape Manual. I/We further certify that upon completion of landscape installation, a letter notice, accompanied by an executed one year guarantee of plant materials, will be submitted to the Department of Planning and Zoning.

DEVELOPER'S/BUILDER'S CERTIFICATE
I/We 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.

ENGINEER'S CERTIFICATE
I hereby certify that this plan for Sediment and Erosion Control represents a practical and workable plan based on the personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard Soil Conservation District.

APPROVED: DEPARTMENT OF PLANNING & ZONING
Signature: [Name] Date: 11/4/03

PERMANENT SEEDING NOTES

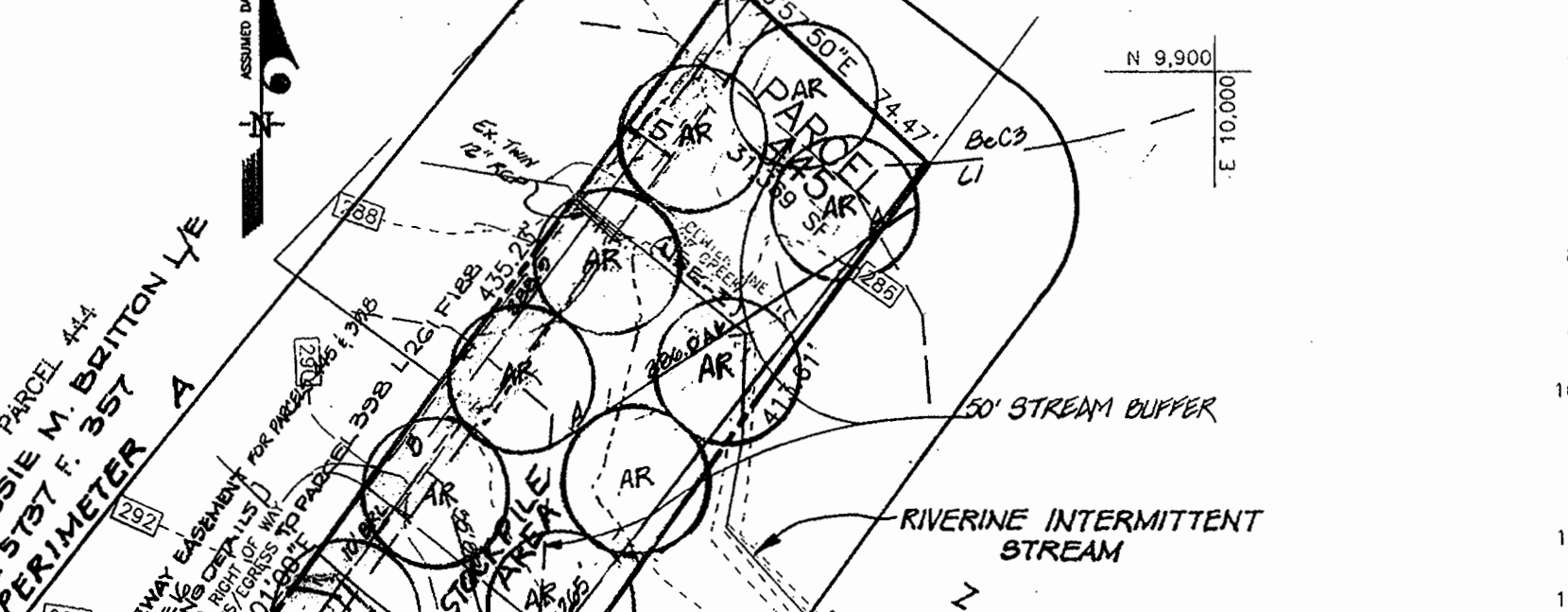
APPLY TO GRADED OR CLEARED AREAS NOT SUBJECT TO IMMEDIATE FURTHER DISTURBANCE WHERE A PERMANENT LONG-LIVED VEGETATIVE COVER IS NEEDED.
SEEDBED PREPARATION: Loosen upper three inches of soil by raking, discing or other acceptable means before seeding, if not previously loosened.
SOIL AMENDMENTS: In lieu of soil test recommendations, use one of the following schedules:

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.)

CONSTRUCTION SEQUENCE:

- 1. Obtain grading permit.
2. Install tree protection fence.
3. Install sediment and erosion control devices and stabilize.
4. Excavate for foundations, rough grade and temporarily stabilize.
5. Construct structures, sidewalks and driveways.
6. Final grade, install Erosion Control Matting and stabilize in accordance with standards and specifications.

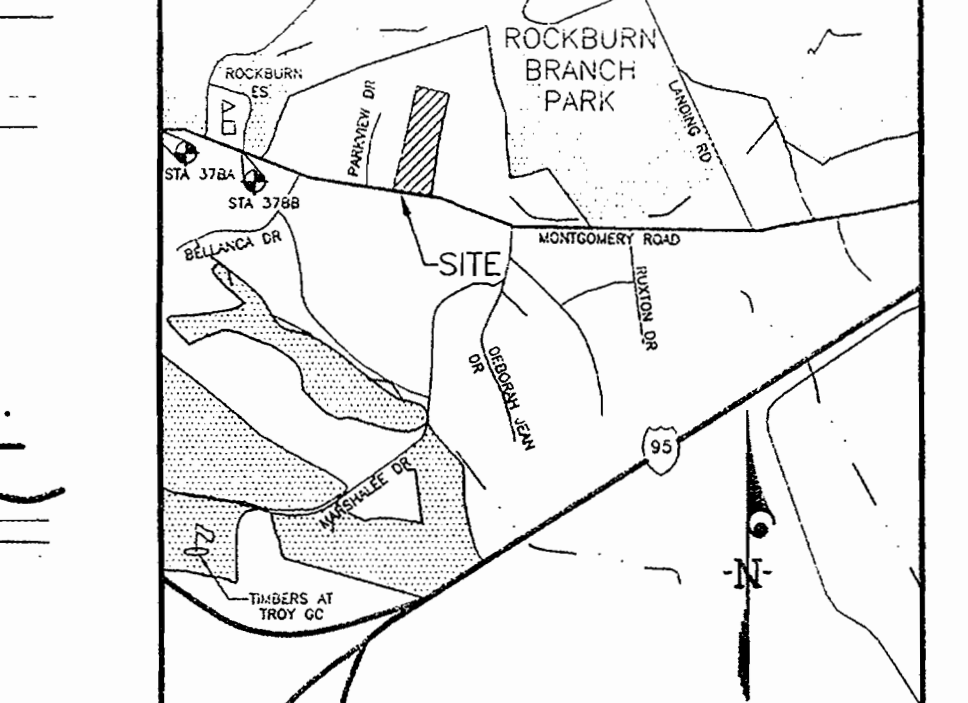


SCHEDULE A PERIMETER LANDSCAPE EDGE
Landscape Type: Linear Feet of Roadway Frontage/Perimeter: 923.31
Credits for Existing Vegetation: 15
Credits for New Plantings: 15

Developer's/Builder's Certificate
I/We certify that the landscaping shown on this plan will be done according to the plan, Section 16.124 of the Howard County Subdivision and Land Development Regulations and the Landscape Manual. I/We further certify that upon completion of landscape installation, a letter notice, accompanied by an executed one year guarantee of plant materials, will be submitted to the Department of Planning and Zoning.

DEVELOPER'S/BUILDER'S CERTIFICATE
I/We 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.

ENGINEER'S CERTIFICATE
I hereby certify that this plan for Sediment and Erosion Control represents a practical and workable plan based on the personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard Soil Conservation District.



VICINITY MAP
SCALE: 1"=2000'

GENERAL NOTES:
1. PROPERTY IS ZONED R-20 PER 114133 COMPENSATORY ZONING PLAN.
2. TOPOGRAPHY WAS TAKEN FROM FIELD RUN TOPOGRAPHIC SURVEY PREPARED BY CLARK, FINEFROCK & SACKETT, INC. ON APRIL 3, 2002.

ADDRESS CHART
PARCEL 445
STREET ADDRESS: 6393 MONTGOMERY ROAD
CITY: ELK RIDGE, MARYLAND 21075

SITE ANALYSIS DATA

Total site area: 31,369 SF
Existing zoning: R-20
Proposed use: Residential
Number of units proposed: 1
Limit of disturbed area: 0.25 AC.

SEDIMENT AND EROSION CONTROL NOTES

- 1. A minimum of 48 hours notice must be given to the Howard County Department of Inspections, Licenses and Permits, Sediment Control Division prior to the start of any construction (313-1853).
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 1994 MARYLAND STANDARDS AND SPECS. FOR SOIL EROSION AND SEDIMENT CONTROL AND revisions thereto.

OWNER / DEVELOPER
WILLIAM L. KRATZ SR.
8221 LINCOLN DRIVE
JESSUP, MARYLAND 20794

SUBDIVISION NAME: W.L. KRATZ PROPERTY
SECTION/AREA: 445
LOTS/PARCELS: 445

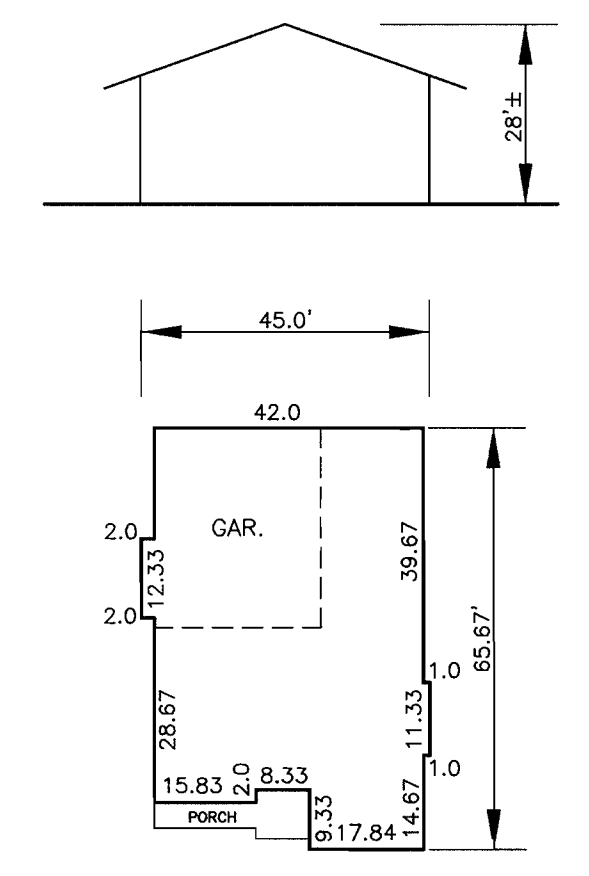
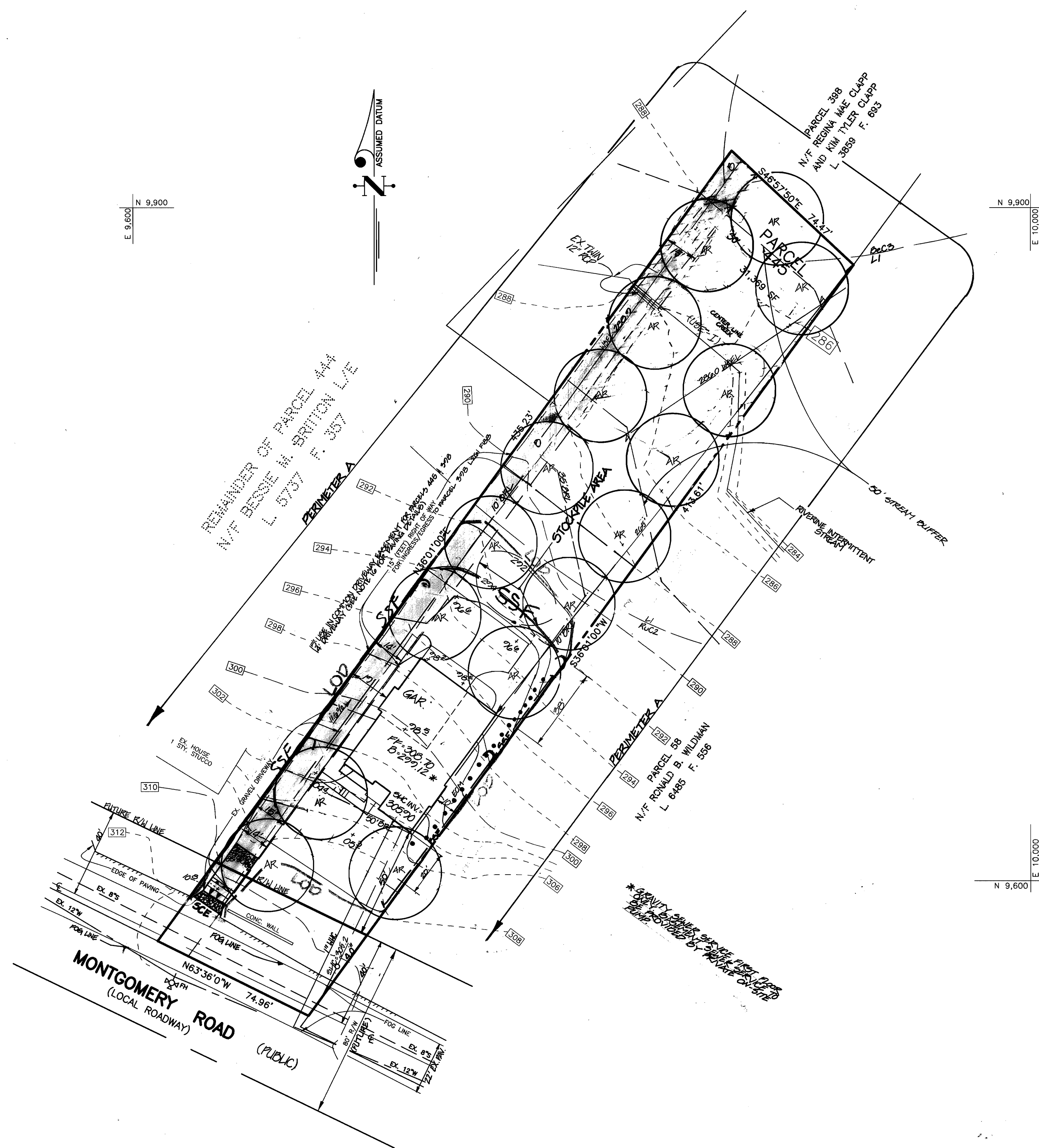
CLARK · FINEFROCK & SACKETT, INC.
ENGINEERS · PLANNERS · SURVEYORS
7135 MINSTREL WAY · COLUMBIA, MD 21045 · (410) 381-7500 BALT. · (301) 621-8100 WASH.

DESIGNED: RMT / DAB
DRAWN: KQL / RQL
CHECKED: PAR
DATE: 8-15-02

SDP-03-091

**LEGEND:**

CONTOUR INTERVAL	2 FT.
EXISTING CONTOUR	---
PROPOSED CONTOUR	---
DIRECTION OF DRAINAGE	→
WALK OUT BASEMENT	WOB
SPOT ELEVATION	+ 78 ±
FIRE HYDRANT	FH
STABILIZED CONSTRUCTION ENTRANCE	SC
EROSION CONTROL MATTING	ECM
SUPER FENCE	SSF
LIMIT OF DISTURBED AREA	LOD
USE-IN-COMMON DRIVEWAY AGREEMENT	---



**KRATZ RESIDENCE**

APPROVED: DEPARTMENT OF PLANNING & ZONING

*[Signature]* 11/4/03  
 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

*[Signature]* 11/5/03  
 CHIEF, DIVISION OF LAND DEVELOPMENT DATE

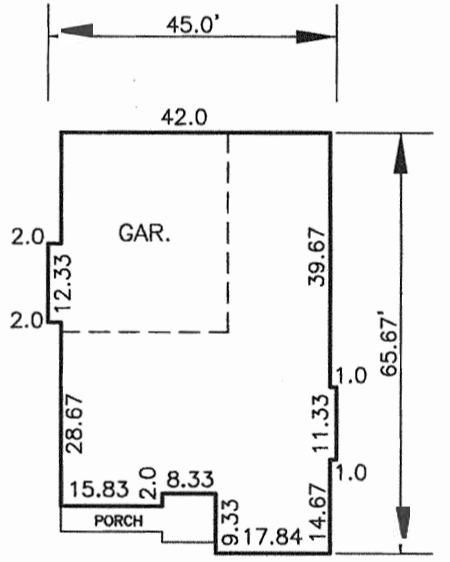
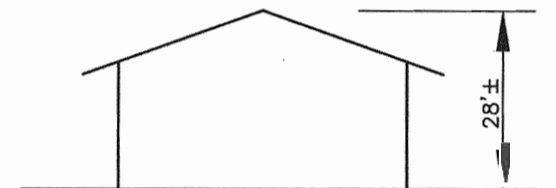
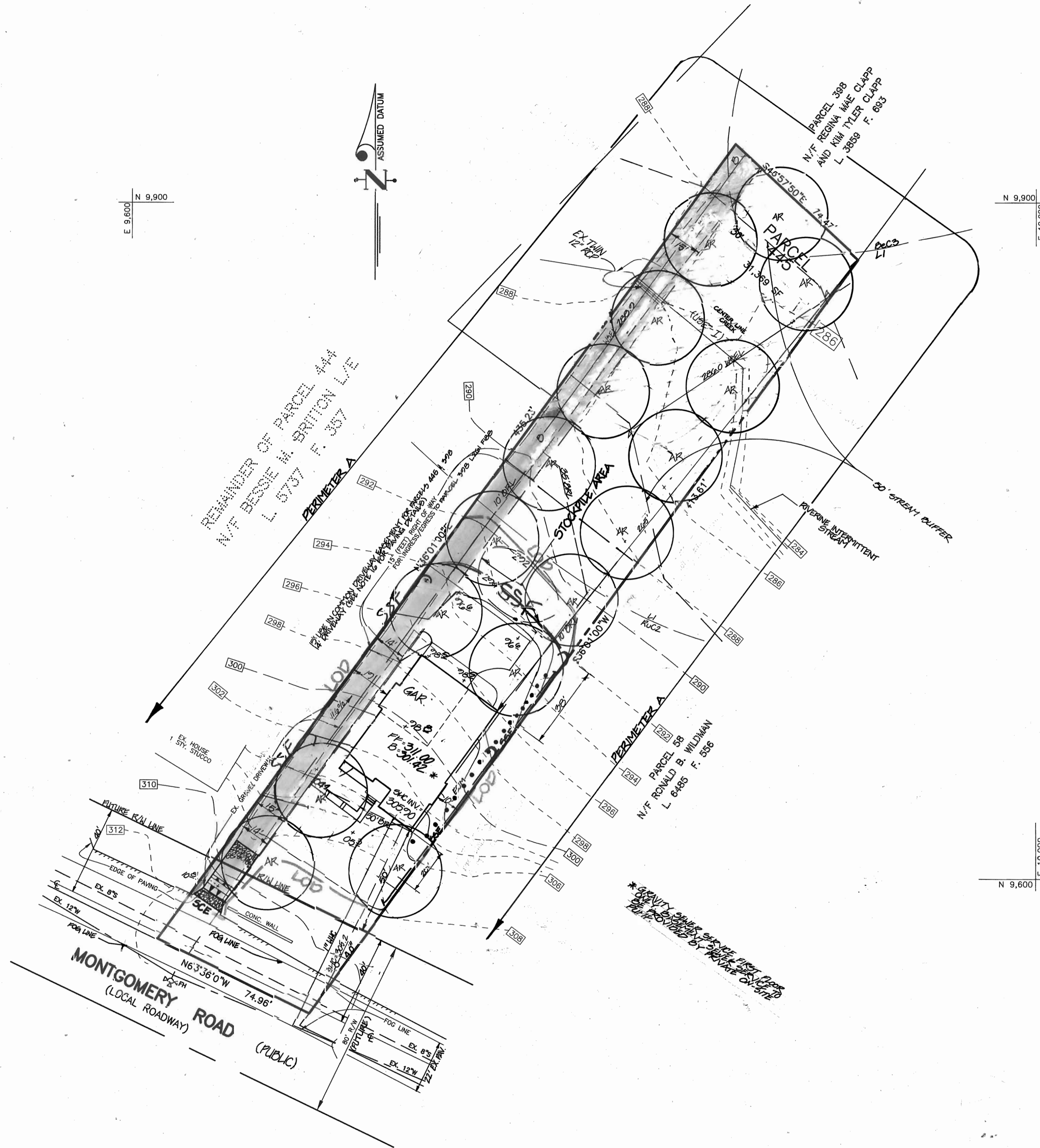
*[Signature]* 11/11/03  
 DIRECTOR DATE

SUBDIVISION NAME		SECTION/AREA	LOTS/PARCELS		
KRATZ PROPERTY		-	445		
PLAT NO.	BLOCK NO.	ZONE	TAX MAP NO.	ELECTION DIST.	CENSUS TRACT
L.5999 F.336	5	R-20	37	1st	6011.01
WATER CODE		SEWER CODE			
34W		NA			
<b>CLARK · FINEFROCK &amp; SACKETT, INC.</b> ENGINEERS · PLANNERS · SURVEYORS					
7135 MINSTREL WAY · COLUMBIA, MD 21045 · (410) 381-7500 BALT. · (301) 621-8100 WASH.					
DESIGNED	SITE DEVELOPMENT AND EROSION CONTROL PLAN				SCALE
RMT / DAB	6393 MONTGOMERY ROAD, ELKRLD ROAD				1" = 30'
DRAWN	WILLIAM L. KRATZ SR. PROPERTY				DRAWING
KQL / RQL	(SINGLE FAMILY DETACHED)				2 of 2
CHECKED	TAX MAP 37 GRID 5				JOB NO.
DAR	LIBER 5999 FOLIO 336				02-084
DATE	FIRST (1st) ELECTION DISTRICT				FILE NO.
6-3-03	HOWARD COUNTY, MARYLAND				02-084-X
FOR: WILLIAM L. KRATZ SR. & CATHERINE KRATZ		8221 LINCOLN DRIVE			
JESSUP, MARYLAND 20794					



**LEGEND:**

CONTOUR INTERVAL	2 FT.
EXISTING CONTOUR	
PROPOSED CONTOUR	
DIRECTION OF DRAINAGE	
WALK OUT BASEMENT	
SPOT ELEVATION	+ 78.4
FIRE HYDRANT	
STABILIZED CONSTRUCTION ENTRANCE	
EROSION CONTROL MATTING	
SUPER FENCE	
LIMIT OF DISTURBED AREA	
USE IN COMMON DRAINAGE	



KRATZ RESIDENCE

APPROVED: DEPARTMENT OF PLANNING & ZONING  
 CHIEF, DEVELOPMENT ENGINEERING DIVISION  
 DATE: 11/4/03  
 CHIEF, DIVISION OF LAND DEVELOPMENT  
 DATE: 11/5/03  
 DIRECTOR  
 DATE: 11/11/03

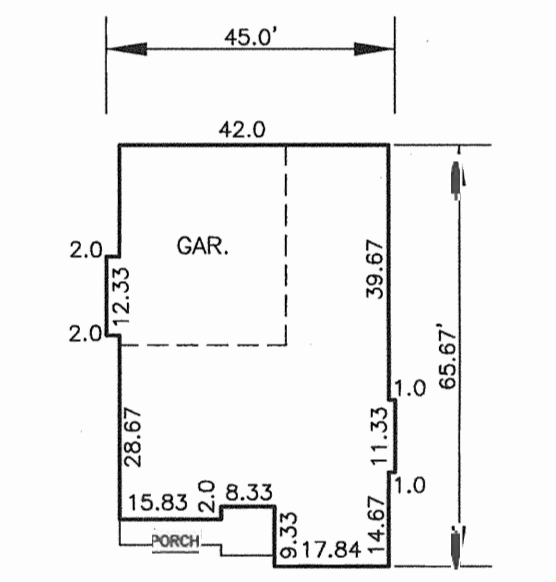
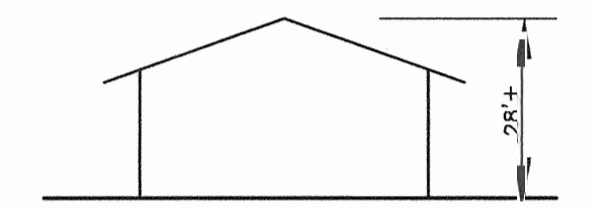
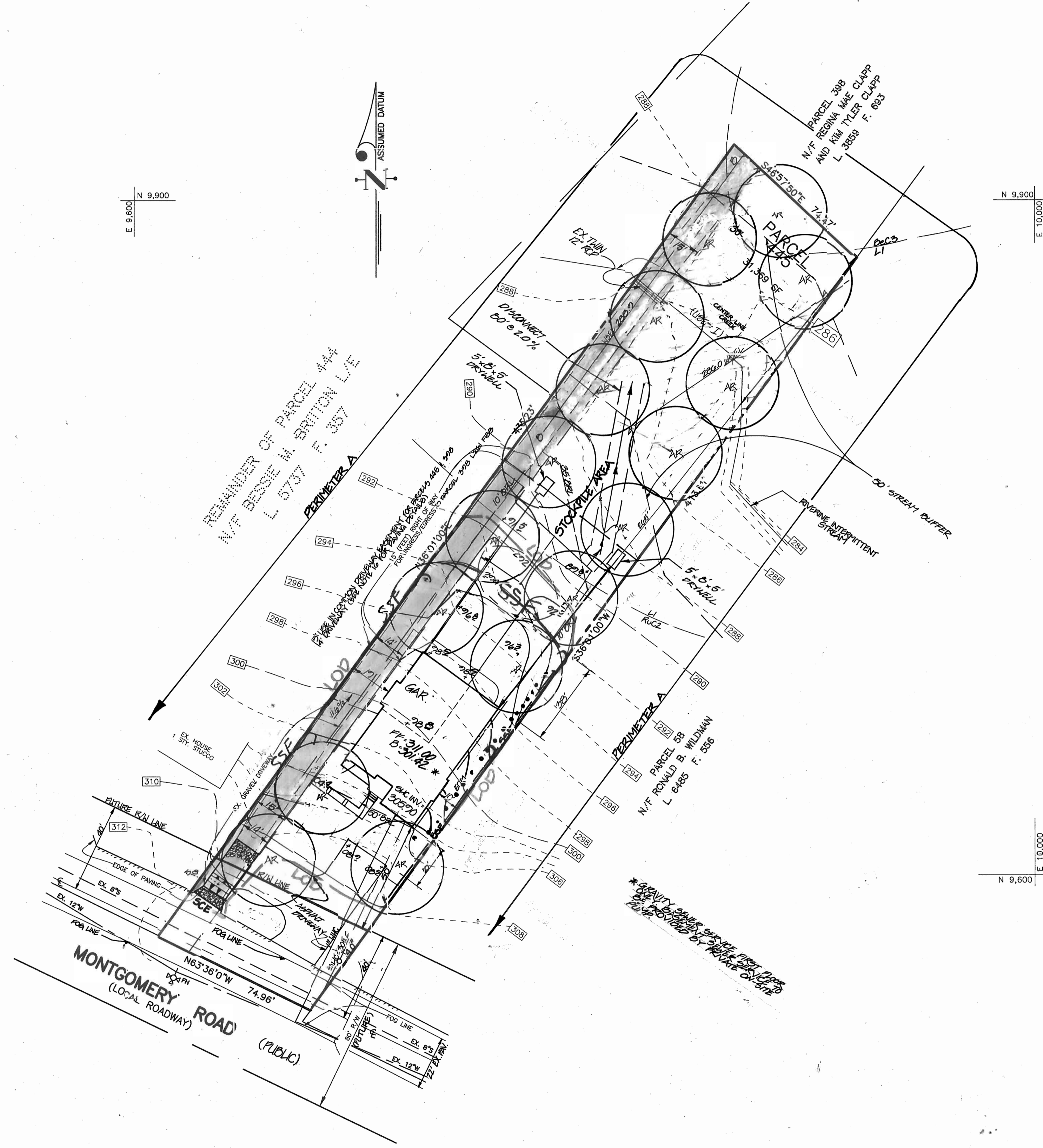
1 REV. TO SHOW AS-BUILT FLOOR ELEVATIONS 5-20-04  
 1/2 DATE (9)D:\U\Drawings\Parcel 445\FINAL.sdp.dwg

SUBDIVISION NAME KRATZ PROPERTY		SECTION/AREA -	LOTS/PARCELS 445	
PLAT NO. L-5999 F-336	BLOCK NO. 5	ZONE R-20	TAX MAP NO. 37	ELECTION DIST. 1st
			CENSUS TRACT 6011.01	
WATER CODE 34W		SEWER CODE NA		
<b>CLARK · FINEFROCK &amp; SACKETT, INC.</b> ENGINEERS · PLANNERS · SURVEYORS				
7135 MINSTREL WAY · COLUMBIA, MD 21045 · (410) 381-7500 BALT. · (301) 621-8100 WASH.				
DESIGNED RMT / DAB	SITE DEVELOPMENT AND SEDIMENT AND EROSION CONTROL PLAN PARCEL 445 6393 MONTGOMERY ROAD, ELKBRIDGE ROAD			SCALE 1" = 30'
DRAWN KQL / RQL	WILLIAM L. KRATZ SR. PROPERTY (SINGLE FAMILY DETACHED) TAX MAP 37 GRID 5 LIBER 5999 FOLIO 336 FIRST (1st) ELECTION DISTRICT HOWARD COUNTY, MARYLAND			DRAWING 2 of 2
CHECKED DAR				JOB NO. 02-084
DATE 6-3-03	FOR: WILLIAM L. KRATZ SR. & CATHERINE KRATZ 8221 LINCOLN DRIVE JESSUP, MARYLAND 20794			FILE NO. 02-084-X

SDP 03.91

**LEGEND:**

CONTOUR INTERVAL	2 FT.
EXISTING CONTOUR	(---)
PROPOSED CONTOUR	(---)
DIRECTION OF DRAINAGE	(--->)
WALK OUT BASEMENT	(---)
SPOT ELEVATION	+ 78.4
FIRE HYDRANT	FH
STABILIZED CONSTRUCTION ENTRANCE	(---)
EROSION CONTROL MATTING	ECM
SUPER FENCE	SSF
LIMIT OF DISTURBED AREA	LOD
LINE IN COMMON PROPERTY	(---)



KRATZ RESIDENCE

SUBDIVISION NAME KRATZ PROPERTY		SECTION/AREA -	LOTS/PARCELS 445		
PLAT NO. L.5999 F.336	BLOCK NO. 5	ZONING R-20	TAX MAP NO. 37	ELECTION DIST. 1st	CENSUS TRACT 6011.01
WATER CODE 34W		SEWER CODE NA			
<b>CLARK · FINEFROCK &amp; SACKETT, INC.</b> ENGINEERS · PLANNERS · SURVEYORS 7135 MINSTREL WAY • COLUMBIA, MD 21045 • (410) 381-7500 BALT. • (301) 621-8100 WASH.					
DESIGNED RMT / DAB	SITE DEVELOPMENT AND SEDIMENT AND EROSION CONTROL PLAN 639.3 MONTGOMERY ROAD, ELKRIDGE ROAD <b>WILLIAM L. KRATZ SR. PROPERTY</b> (SINGLE FAMILY DETACHED) TAX MAP 37 GRID 5 LIBER 5999 FOLIO 336 FIRST (1st) ELECTION DISTRICT HOWARD COUNTY, MARYLAND				SCALE 1" = 30'
DRAWN KQL / RQL					DRAWING 2 of 2
CHECKED DAR					JOB NO. 02-084
DATE 6-3-03	FOR: WILLIAM L. KRATZ SR. & CATHERINE KRATZ 8221 LINCOLN DRIVE JESSUP, MARYLAND 20794				FILE NO. 02-084-X

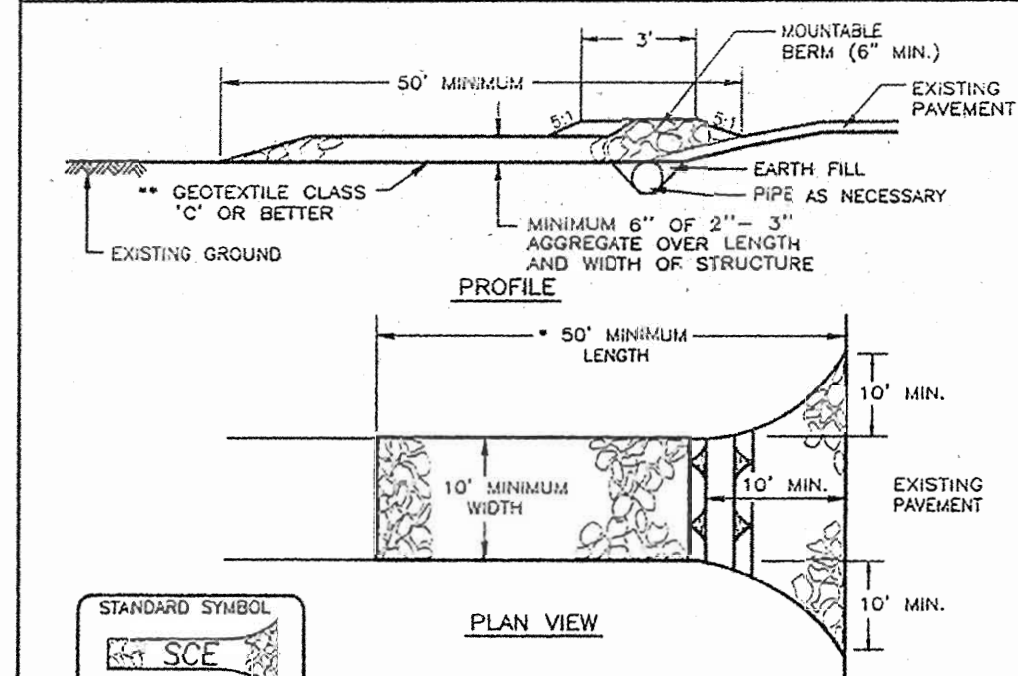
APPROVED: DEPARTMENT OF PLANNING & ZONING

<i>[Signature]</i>	11/4/03
CHIEF, DEVELOPMENT ENGINEERING DIVISION	DATE
<i>[Signature]</i>	11/5/03
CHIEF, DIVISION OF LAND DEVELOPMENT	DATE
<i>[Signature]</i>	11/14/03
DIRECTOR	DATE

1 REV TO SHOW 15'-0" BUILT FLOOR ELEVATIONS 5-20-04  
 1/8 1/8 DATE (9)D:\urc\wings\Parcel 445\FINALsdp.dwg

S'DP 03.91

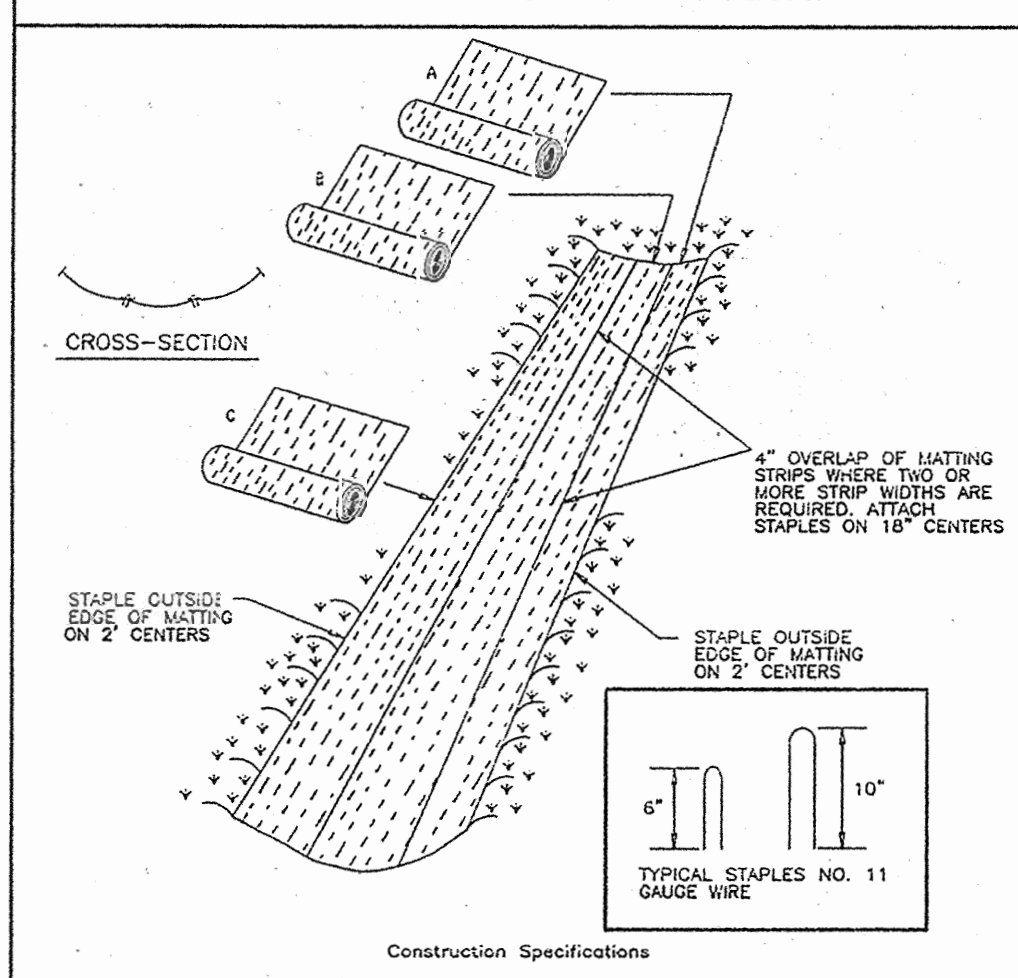
DETAIL 24 - STABILIZED CONSTRUCTION ENTRANCE



- 1. Length - minimum of 50' (+ 30' for a single residence (R)).
2. Width - 10' minimum, should be flared at the existing road to provide a turning radius.
3. Geotextile fabric (filter cloth) shall be placed over the existing ground prior to placing the stabilized construction entrance...
4. Stone - crushed aggregate (2" to 3") or reclaimed or recycled concrete equivalent shall be placed at least 6" deep over the length and width of the entrance.
5. Surface Water - all surface water flowing to or diverted toward construction entrances shall be piped through the entrance, maintaining positive drainage.
6. Location - A stabilized construction entrance shall be located at every point where construction traffic enters or leaves a construction site.

Table with columns for U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE, PAGE 17-13, and MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION.

DETAIL 30 - EROSION CONTROL MATTING



- 1. Key-in the matting by placing the top ends of the matting in a narrow trench, 6" in depth. Backfill the trench and tamp firmly to conform to the channel cross-section.
2. Staples shall be placed 2' apart with 4 rows for each strip, 2 outer rows, and 2 alternating rows down the center.
3. Before stapling the outer edges of the matting, make sure the matting is smooth and in firm contact with the soil.
4. Staples shall be placed 2' apart with 4 rows for each strip, 2 outer rows, and 2 alternating rows down the center.
5. Where one roll of matting ends and another begins, the end of the top strip shall overlap the upper end of the lower strip by 4", slip joint fusion. Reinforce the overlap with a double row of staples spaced 6" apart in a staggered pattern on either side.
6. The discharge end of the matting liner should be similarly secured with 2 double rows of staples.

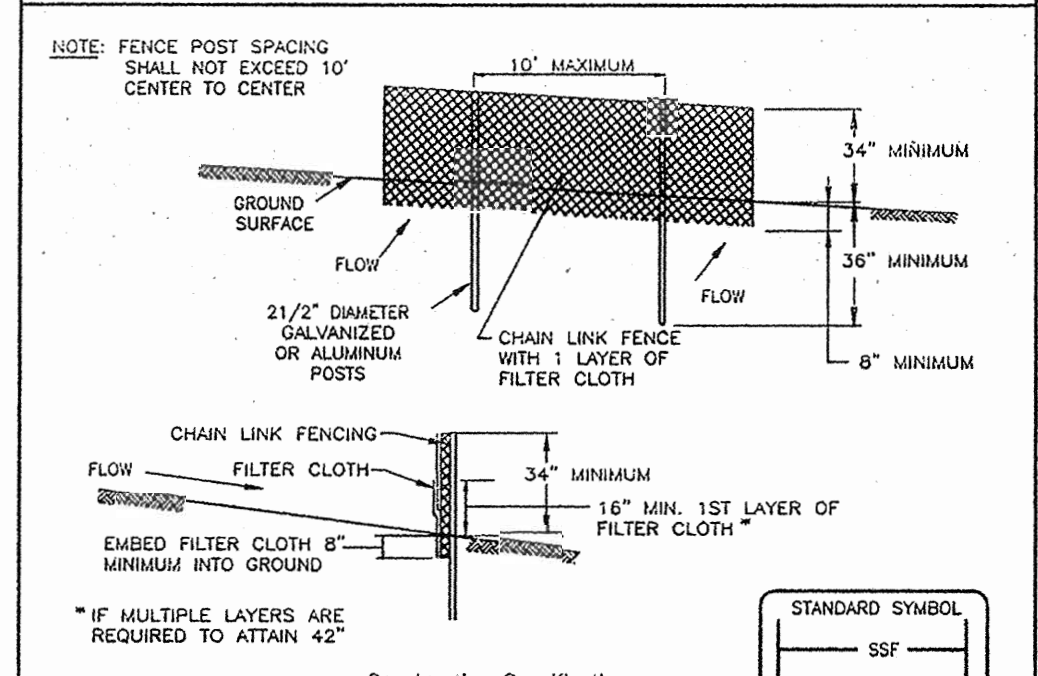
PLANT SCHEDULE (for perimeter edge) table with columns: KEY, QUANT, PLANT NAME, SIZE, REMARKS. Includes ACER RUBRUM 'RED SUNSET' 2 1/2" x 3" Cal. B&B Heavy Red Sunset Maple 12-14' Ht.

Reviewed for HOWARD S.C.D. and meets Technical Requirements. Signature: Jim Myers 10-29-03. S. Natural Resources.

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT. Signature: John... 10-29-03.

APPROVED: DEPARTMENT OF PLANNING & ZONING. Signature: ... 11/17/03. DATE.

DETAIL 33 - SUPER SILT FENCE

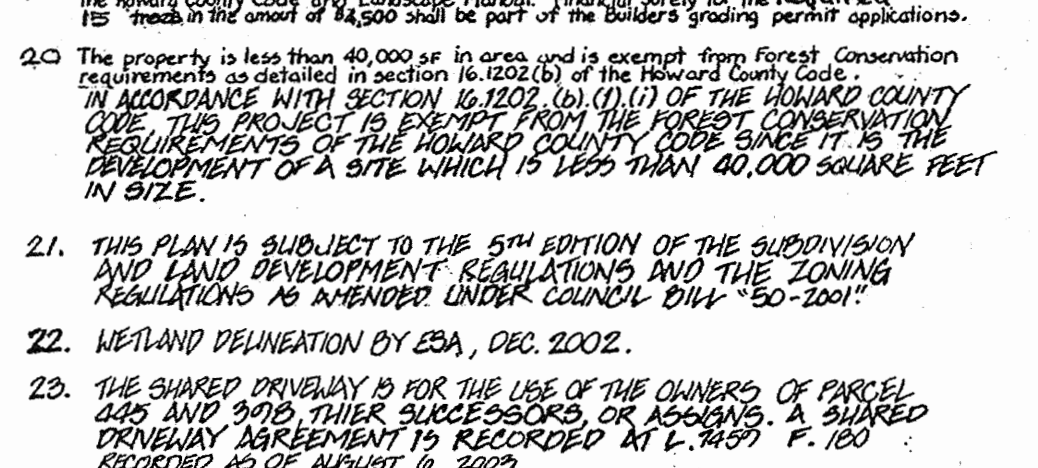


- 1. Fencing shall be 42" in height and constructed in accordance with the latest Maryland State Highway Details for Chain Link Fencing.
2. Chain link fence shall be fastened securely to the fence posts with wire ties.
3. Filter cloth shall be fastened securely to the chain link fence with ties spaced every 24" at the top and mid section.
4. Filter cloth shall be embedded a minimum of 8" into the ground.
5. When two sections of filter cloth adjoin each other, they shall be overlapped by 6" and tailed.
6. Maintenance shall be performed as needed and silt buildups removed when "bulges" develop in the silt fence, or when silt reaches 50% of fence height.
7. Filter cloth shall be fastened securely to each fence post with wire ties or staples at top and mid section to meet the following requirements for Geotextile Class F:
Tensile Strength 50 lbs/in (min.)
Tensile Modulus 20 lbs/in (min.)
Flow Rate 0.3 gal/ft/minute (max.)
Filtering Efficiency 75% (min.)

Table with columns for U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE, PAGE 8-28-3, and MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION.

GENERAL NOTES Cont.

- 6. The total area included in this submission is: 31,367.58'.
7. The total number of lots included in this submission is: 1.
8. Improvement to property: Single Family Detached.
9. Any damage to county owned rights-of-way shall be corrected at the developer's expense.
10. All roadways are public and existing.
11. The coordinates shown herein are based upon the Howard County Geodetic Control and based upon the National State Plane Coordinate System - Howard County Numerical System, 5784 13780.
12. The contractor shall notify the Department of Public Works / Division of Construction Inspection of any damage to existing utilities, structures, or other features of the site, prior to the start of work.
13. For driveway entrance details, refer to H.C. Design Manual Volume IV details R.6.03 & R.6.05.
14. In accordance with Section 12B of the Howard County Zoning Regulations, any new windows, doors, or exterior shutters not more than 10 feet in depth may project more than 12 feet into any setbacks, parking, or driveway, or enclosed may project not more than 12 feet into the front or rear yard setbacks.
15. EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO THE START OF CONSTRUCTION AND SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD.
16. EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO THE START OF CONSTRUCTION AND SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD.
17. MAINTENANCE - SUFFICIENT TENSILE ALL WEATHER USE.
18. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPLICABLE AGENCIES.
19. THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE PROVISIONS OF SECTION 16.124 OF THE HOWARD COUNTY CODE OF LANDSCAPE MANUAL.
20. THE PROPERTY IS LESS THAN 40,000 SQ FT IN AREA AND IS EXEMPT FROM FOREST CONSERVATION REQUIREMENTS AS DETAILED IN SECTION 16.122(B) OF THE HOWARD COUNTY CODE.
21. THIS PLAN IS SUBJECT TO THE 15th EDITION OF THE SUBDIVISION AND LAND DEVELOPMENT REGULATIONS AND THE ZONING REGULATIONS AS AMENDED UNDER COUNCIL BILL "50-2001".
22. WETLAND DELINEATION BY EBA, DEC. 2002.
23. THE SHARED DRIVEWAY IS FOR THE USE OF THE OWNERS OF PARCELS 445 AND 340. THEIR SUCCESSIONS OR ASSIGNS. A SHARED DRIVEWAY AGREEMENT IS RECORDED AT L. 1437 F. 100 RECORDED 03-08-2002.
24. GRADING, REMOVAL OF VEGETATIVE COVER AND TREES PAVING WITHIN THE 50' STREAM BUFFER IS PROHIBITED.



SCHEDULE A PERIMETER LANDSCAPE EDGE table with columns: Landscape Type, Linear Feet of Roadway Fronting/Perimeter, Number of Plants Required, and Number of Plants Provided.

Developer's/Builder's Certificate. I/We certify that the landscaping shown on this plan will be done according to the plan, Section 16.124 of the Howard County Subdivision and Land Development Regulations and the Landscape Manual. I/We further certify that upon completion of landscape installation, a letter notice, accompanied by an executed one year guarantee of plant materials, will be submitted to the Department of Planning and Zoning. Signature: William L. Kratz 3/27/03.

- LANDSCAPE NOTES:
1. All plant materials shall be full and heavy, be well formed and symmetrical and conform to the most current AAN specifications.
2. Contractor shall verify location of all underground utilities prior to digging.
3. Final location of plant material may need to vary to meet final field conditions. Trees shall not be planted in the bottom of drainage swales.
4. This plan has been prepared in accordance with the provisions of Section 16.124 of the Howard County Code, the Landscape Manual, and the Development Ordinance approved by the Planning Board on July 1, 2002. The cost of the required landscaping will be posted as part of the Builder's Grading Permit for the amount of \$4,500 for 15 shade trees.

SOILS LEGEND table with columns: SYMBOL, NAME / DESCRIPTION, TYPE. Includes LEONARDTOWN SILT LOAM, BELTSVILLE SILT LOAM, and RUMFORD LIGHT SAND.

21.0 STANDARDS AND SPECIFICATIONS FOR TOPSOIL

Definition: For sites having disturbed areas under 5 acres: Place topsoil over a prepared subsoil prior to establishment of permanent vegetation. Purpose: To provide a suitable soil medium for vegetable growth. Conditions Where Practice Applies: This practice is limited to areas having 2:1 or flatter slopes where: a. The texture of the exposed subsoil/parent material is not adequate to produce vegetable growth. b. The soil material is so shallow that the rooting zone is not deep enough to support plants or furnish continuing supplies of moisture and plant nutrients. c. The original soil to be vegetated contains material toxic to plant growth. d. The soil is so acidic that treatment with limestone is not feasible.

Construction and Material Specifications: 1. Topsoil salvaged from the existing site may be used provided that it meets the standards as set forth in these specifications. 2. Topsoil shall be a loam, sandy loam, clay loam, silt loam, sandy clay loam, loamy sand. Other soils may be used if recommended by an agronomist or a soil scientist and approved by the appropriate approval authority.

CONSTRUCTION SEQUENCE: 1. Obtain grading permit. 2. Install tree protection fence. 3. Install sediment and erosion control devices and stabilize. 4. Excavate for foundations, rough grade and temporarily stabilize. 5. Construct structures, sidewalks and driveways. 6. Final grade, install Erosion Control and stabilize in accordance with standards and specifications. 7. Upon approval of the sediment control inspector, remove sediment and erosion control devices and stabilize.

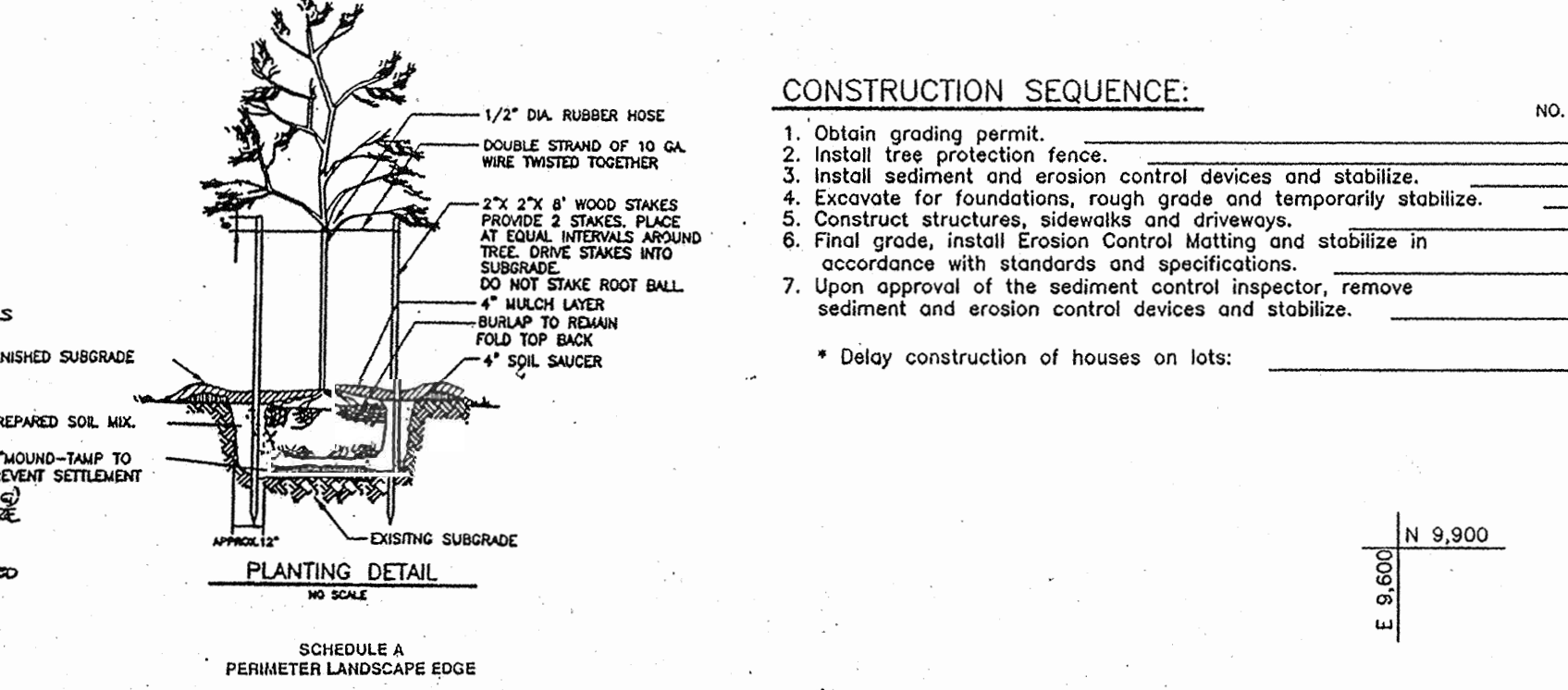


Table with columns: Subdivision Name, Section/Area, Lots/Parcels, Plat No., Block No., Zone, Tax Map No., Election Dist., Census Tract, Water Code, Sewer Code.

OWNER / DEVELOPER: WILLIAM L. KRATZ SR., 8221 LINCOLN DRIVE, JESSUP, MARYLAND 20794. (410) 411-6102.

CLARK • FINEFROCK & SACKETT, INC. ENGINEERS • PLANNERS • SURVEYORS. 7135 MISTREL WAY • COLUMBIA, MD 21145 • (410) 381-7500 BATT. • (301) 621-9000 WASH.

ENGINEER'S CERTIFICATE: I hereby certify that this plan for Sediment and Erosion Control represents a professional 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.

DEVELOPER'S/BUILDER'S CERTIFICATE: I/We 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.

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: 1) Preferred-Apply 2 tons per acre dolomitic limestone (92 lbs./1000 sq.ft.) and 600 lbs. per acre 10-10-10 fertilizer (14 lbs./1000 sq.ft.) before seeding. 2) Acceptable-Apply 2 tons per acre dolomitic limestone (92 lbs./1000 sq.ft.) and 600 lbs. per acre 10-10-10 fertilizer (14 lbs./1000 sq.ft.) before seeding.

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 bushel per acre of annual ryegrass (3.2 lbs./1000 sq.ft.). For the period May 1 thru July 31, 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.

SEEDING: For 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 (.05 lbs./1000 sq.ft.) of weeping lovegrass. During the period of October 15 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 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 unrattled 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.

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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 ryegrass (3.2 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.

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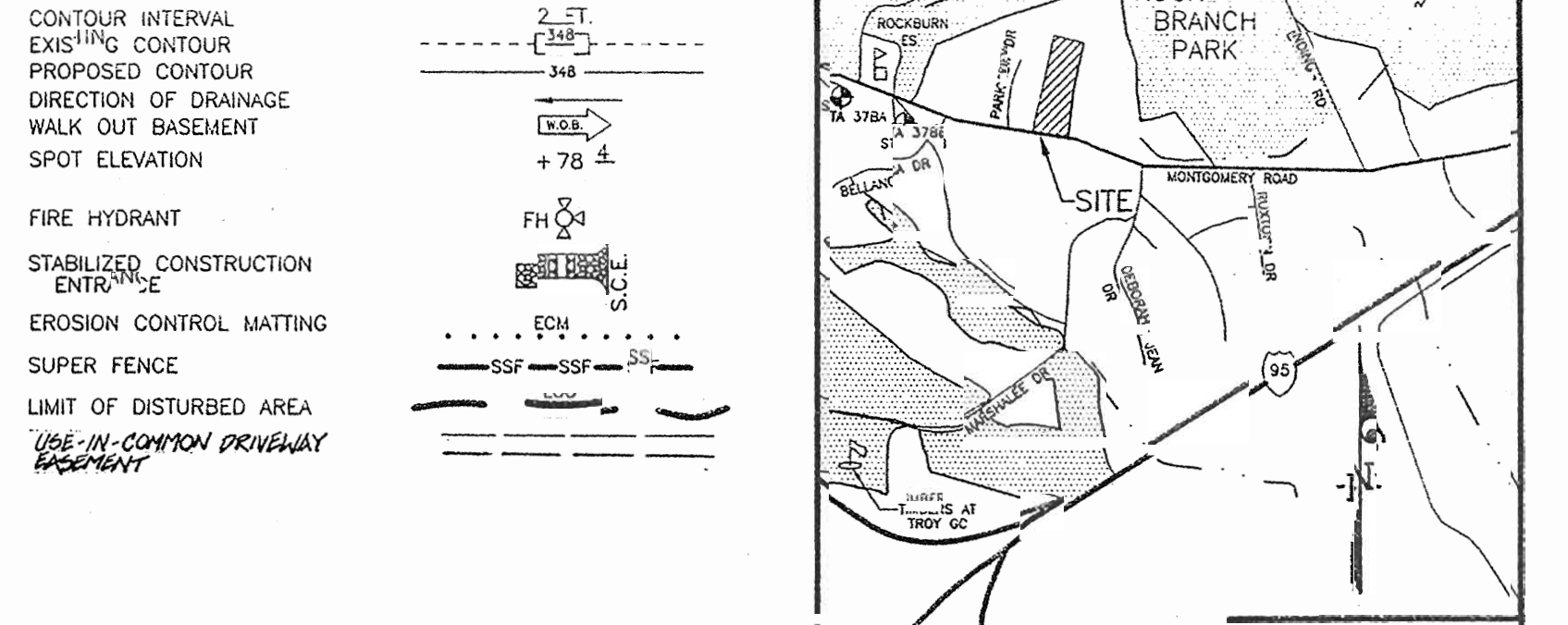
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LEGEND:



BENCHMARKS: HOWARD COUNTY MONUMENT # 378A N 17184.2558 (METERS) E 419510.2654 (METERS). HOWARD COUNTY MONUMENT # 378B N 17184.2558 (METERS) E 420027.5970 (METERS).

GENERAL NOTES: 1. PROPERTY IS ZONED R-20 PER HOWARD COUNTY COMPREHENSIVE ZONING PLAN. 2. TOPOGRAPHY WAS TAKEN FROM FIELD RUN TOPOGRAPHIC SURVEY PREPARED BY CLARK, FINEFROCK & SACKETT, INC. ON APRIL 3, 2002.

ADDRESS CHART table with columns: PARCEL NUMBER, STREET ADDRESS. Includes 445, 8330 MONTGOMERY ROAD, ELKRIEDE, MARYLAND 21075.

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