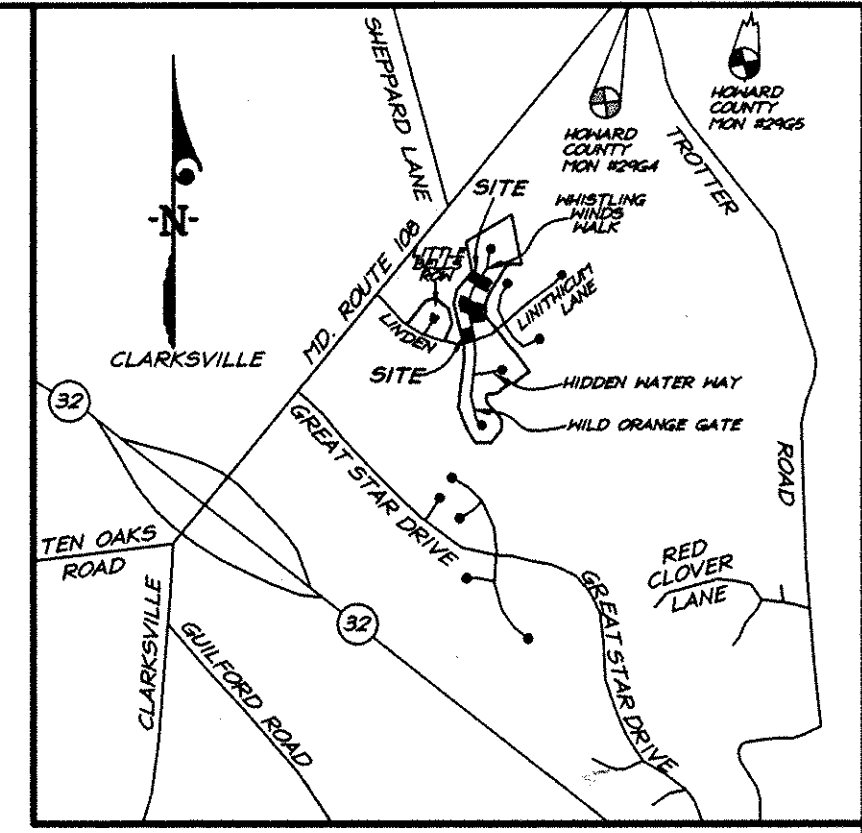
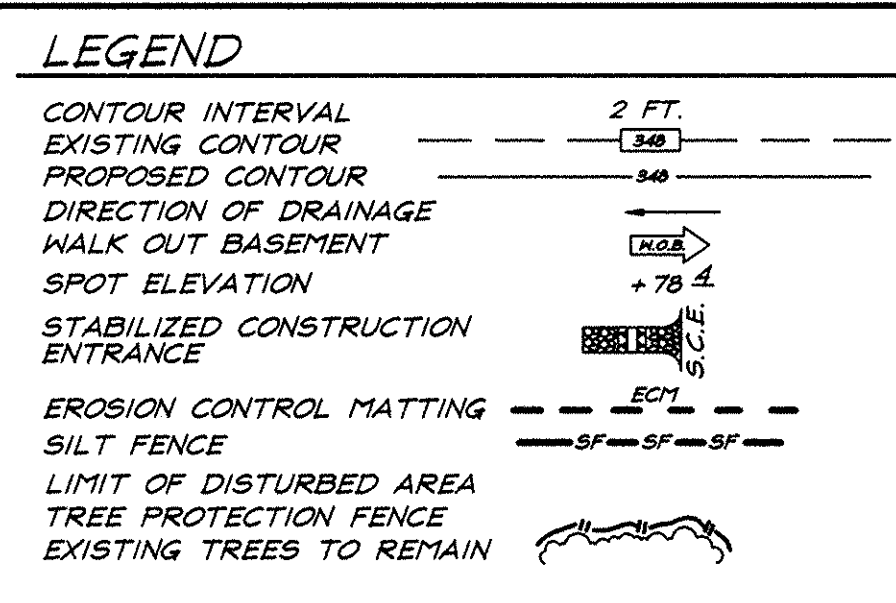


ADDRESS CHART

LOT NUMBER	STREET ADDRESS
9	5701 WHISTLING WINDS WALK
10	5705 WHISTLING WINDS WALK
13	5717 WHISTLING WINDS WALK
14	5721 WHISTLING WINDS WALK
18	5737 WHISTLING WINDS WALK
19	5741 WHISTLING WINDS WALK
40	5732 WHISTLING WINDS WALK
41	5728 WHISTLING WINDS WALK
44	5716 WHISTLING WINDS WALK
45	5712 WHISTLING WINDS WALK
46	5708 WHISTLING WINDS WALK

SHEET INDEX

DESCRIPTION	SHEET No.
COVER SHEET	1 of 4
SITE DEVELOPMENT	2 of 4
SEDIMENT AND EROSION CONTROL PLAN	3 of 4
SEDIMENT AND EROSION CONTROL DETAILS	4 of 4



BENCHMARKS:
 Howard County Monument 2964
 Intersection of MD. Route 108 and Trotter Road
 Howard County Monument 2965
 on additional 2,544' Northeastly along MD. Route 108 away from Site

- GENERAL NOTES:**
- Subject property is zoned: NTSFMP per 10-18-93 Comprehensive Zoning Plan.
 - The total area included in this submission is : 1.8731 Acres.
 - The total number of lots included in this submission is : 11
 - Improvement to property : Single Family Detached
 - The maximum lot coverage permitted is : 30%
 - Department of Planning and Zoning reference file numbers : 5-93-21,P-95-12,F-96-102,F-98-122
 - Utilities shown as existing are taken from approved Water and Sewer plans Contract #34-3586-D, approved Road Construction plans F-96-102, 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 taken from Road Construction Plans prepared by Morris & Ritchie Associates in January 1996.
 - The coordinates shown hereon are based upon the Howard County Geodetic Control which is based upon the Maryland State Plane Coordinate System - Howard County Monuments Numbers : 29G4 & 29G5
 - 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 Ho. Co. Design Manual Volume IV details R.6.03 & R.6.05.
 - In accordance with FDP-Phase 222-A, Part V, 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 3 feet into the front or rear setbacks. Areaways may not project into any setbacks.
 - SHC Elevations shown are at the Property lines.
 - This plan has been prepared in accordance with provision of Section 16-124 of the Howard County Code and the Landscape Manual. Financial Surety for the required 5 landscape trees in the amount of \$1050.00 is part of the builders Grading Permit application, for Lot 9.
 - Quantity Stormwater Management for section 4, area 5 is provided by three facilities; the refurbished SWM pond #1 South of Linden Linthicum Lane (F-96-89), The culvert at Great Star Drive (F-96-110) and SWM pond #4 in section 4 in area 4 (F-96-130) Quality Management for this section will be provided by three facilities; a Forbay North of SWM pond #1 (F-96-89), A shallow marsh facility at the end of Wild Orange Gate and an extended detention facility within pond #4 (F-96-130) the subdivision is located in the Patuxent River Area Sub-Basin and is a Class 1 Watershed.

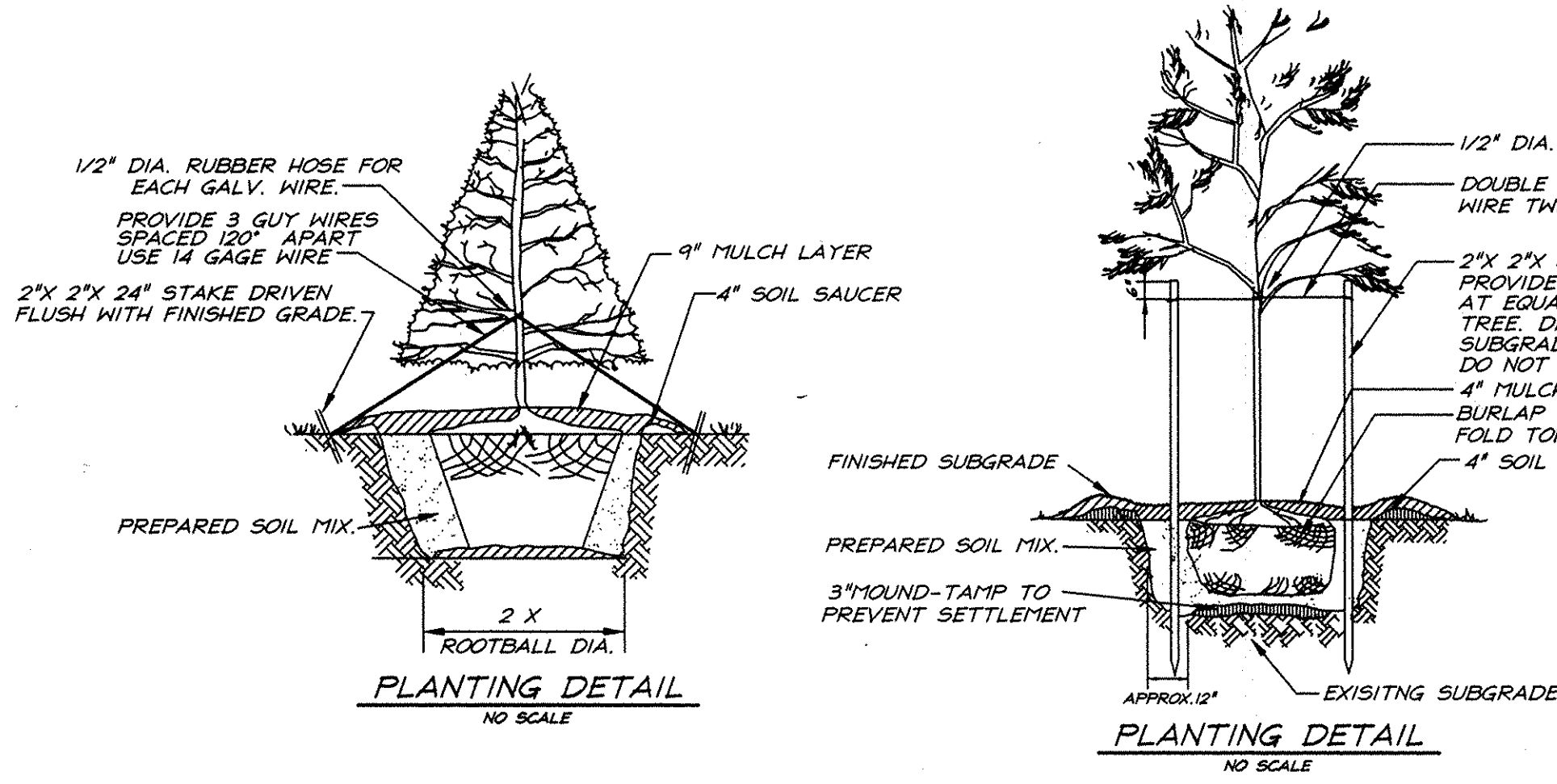
SCHEDULE A PERIMETER LANDSCAPE EDGE

CATEGORY	ADJACENT TO ROADWAYS	LOT 9
LANDSCAPE TYPE B		
LINEAR FEET OF ROADWAY FRONTAGE/PERIMETER		123.68 LF
NUMBER OF PLANTS REQUIRED		
SHADE TREES		2
EVERGREEN TREES		3
NUMBER OF PLANTS PROVIDED		
SHADE TREES		2
EVERGREEN TREES		3

PLANT SCHEDULE

KEY	PLANT NAME	SIZE	QUAN.	REMARKS
AR	ACER RUBRUM OCT. GLORY RED MAPLE	2 1/2-3" CAL. 12-13" HT.	2	BMB HEAVY
PS	PINUS STROBUS WHITE PINE	6-8" HT.	3	BMB HEAVY

- NOTES FOR COLUMBIA PLANT SCHEDULES:**
- All plant material shall be full and heavy, be well formed and symmetrical, conform to the most current AAN specifications and be installed in accordance with HRD planting specifications.
 - Contractor shall verify location of all underground utilities prior to digging.
 - 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.

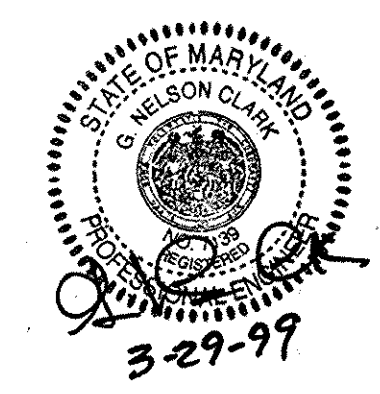


OWNER / DEVELOPER
 THE HOWARD RESEARCH AND DEVELOPMENT CORP.
 10275 LITTLE PATUXENT PARKWAY
 COLUMBIA, MARYLAND 21044

DEVELOPER'S/BUILDERS CERTIFICATE
 I/We certify that the landscaping shown on this plan will be done according to plan, section 16.124 of the Howard County Code and the Howard County Landscape Manual. I/We further certify that upon completion a Certificate of Landscape Installation, accompanied by an executed one year guarantee of plant materials, will be submitted to the Department of Planning and Zoning.

F.W. Kunkle
 F.W. KUNKLE

2-16-99
 Date



APPROVED: DEPARTMENT OF PLANNING & ZONING
 CHIEF, DEVELOPMENT ENGINEERING DIVISION
Cathy Standa
 CHIEF, DIVISION OF LAND DEVELOPMENT
David L. Smith
 DIRECTOR

4/1/99
 DATE

4/1/99
 DATE

4/14/99
 DATE

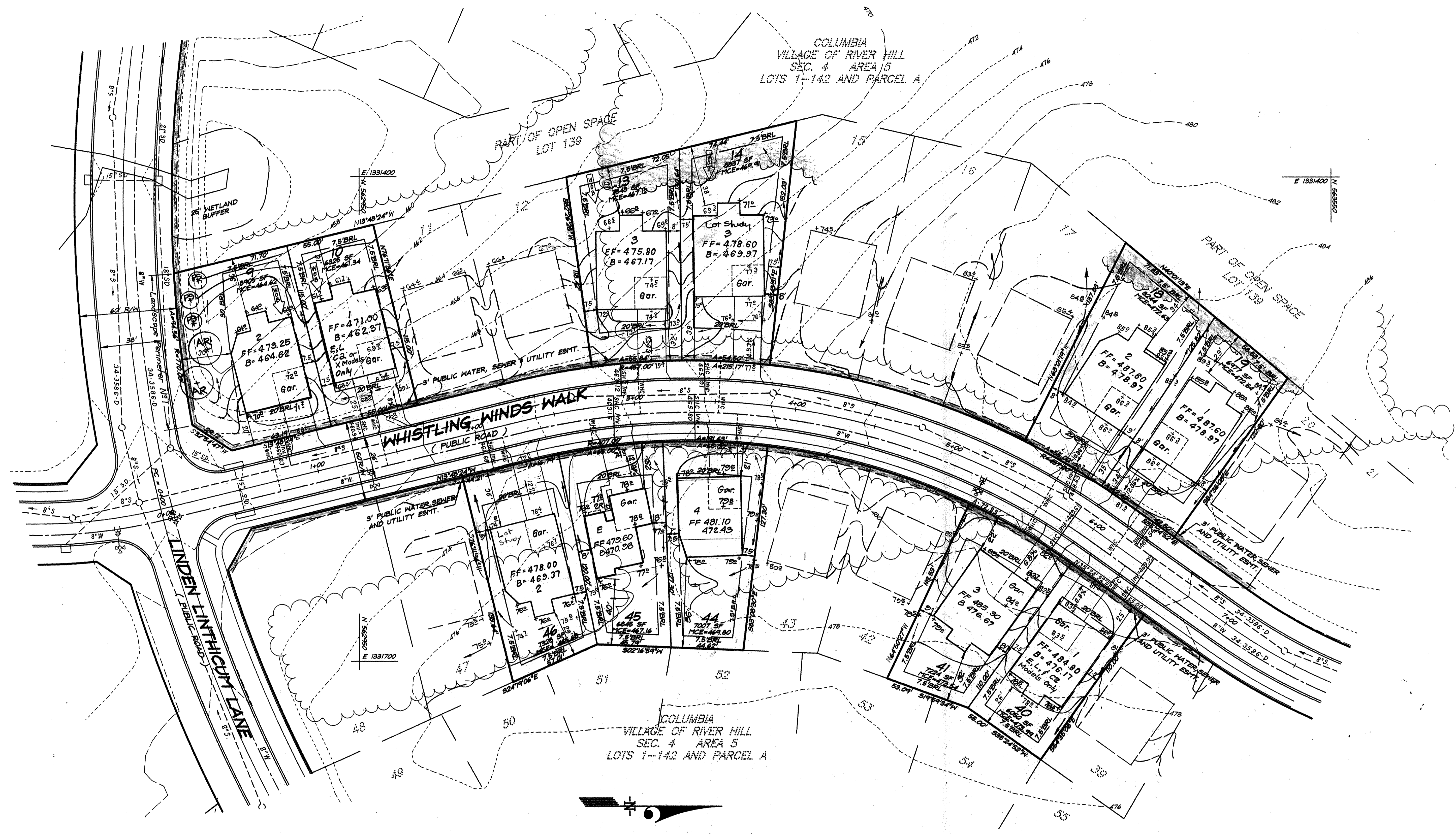
SPECIAL NOTES:
 This plan is for house siting and lot grading only. Improvements shown within the rights-of-way on this S.D.P. are not to be used for construction. For construction, see approved Road Construction Plans F-96-102 and/or approved Water and Sewer Plans Contract #34-3586-D.

SUBDIVISION NAME	COLUMBIA	SECTION/AREA	4/5	LOTS/PARCELS	9, 10, 13, 14, 18, 19, 40, 41 & 44-46
VILLAGE OF RIVER HILL					
PLAT NO.	12855	BLOCK NO.	1	ZONE	NTSFLD
12856		TAX MAP NO.	35	ELECTION DIST.	5TH
				CENSUS TRACT	6055
WATER CODE	1-12	SEWER CODE	6652500		

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

DESIGNED	DM	SITE DEVELOPMENT PLAN LOTS 9, 10, 13, 14, 18, 19, 40, 41 & 44-46 COLUMBIA VILLAGE OF RIVER HILL SECTION 4 AREA 5 FIFTH (5th) ELECTION DISTRICT HOWARD COUNTY, MARYLAND	SCALE	1" = 30'
DRAWN	BH		DRAWING	1 of 4
CHECKED			JOB NO.	99-002
DATE	2/1/99		FILE NO.	99-002-X

FOR: PATRIOT HOMES
 P.O. BOX 1018
 Columbia, Maryland 21044



COLUMBIA
VILLAGE OF RIVER HILL
SEC. 4 AREA 5
LOTS 1-142 AND PARCEL A

COLUMBIA
VILLAGE OF RIVER HILL
SEC. 4 AREA 5
LOTS 1-142 AND PARCEL A

OWNER / DEVELOPER
THE HOWARD RESEARCH AND DEVELOPMENT CORP.
10275 LITTLE PATUXENT PARKWAY
COLUMBIA, MARYLAND 21044

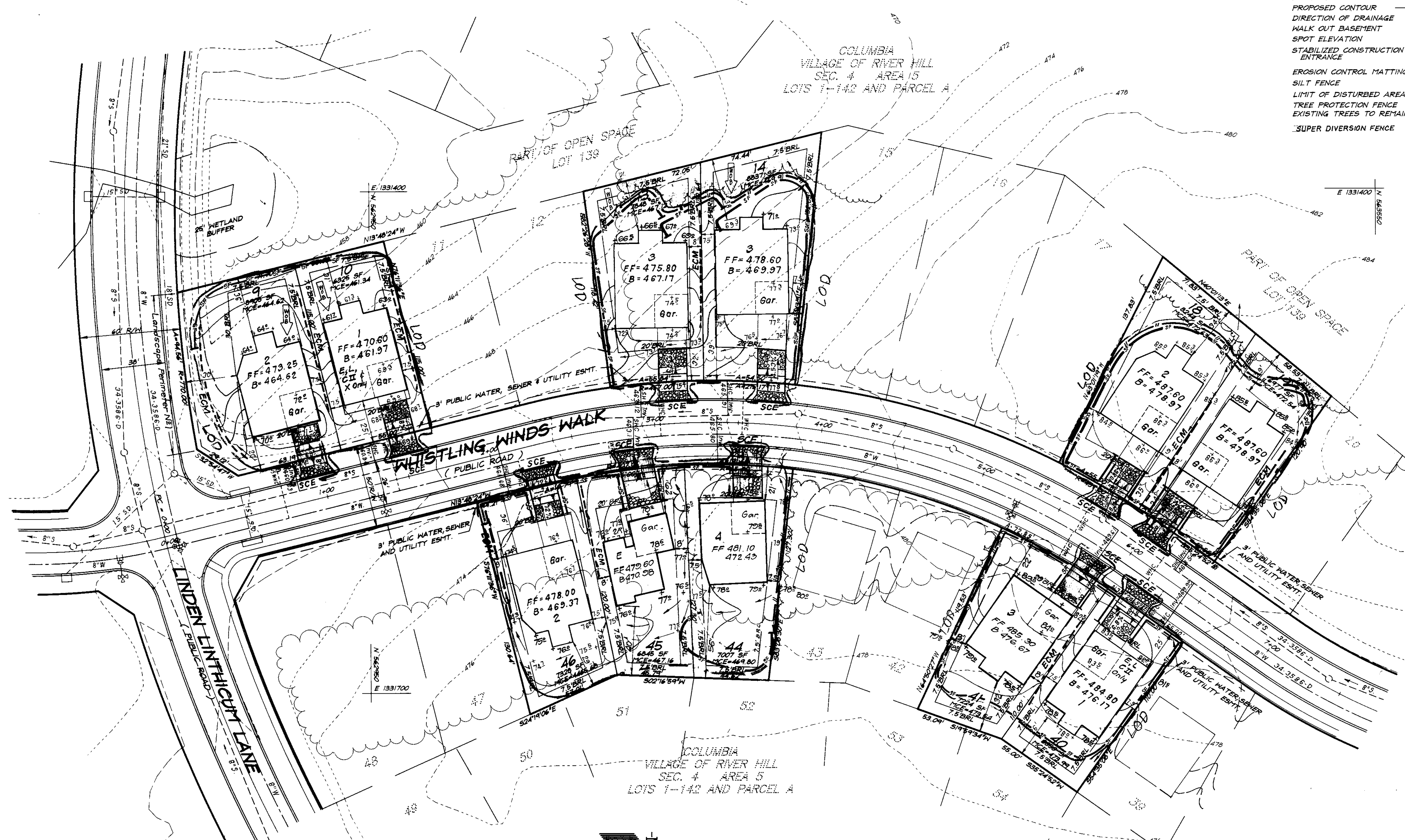
CLARK • FINEFROCK & SACKETT, INC. ENGINEERS • PLANNERS • SURVEYORS 7135 MINTREL WAY • COLUMBIA, MD 21045 • (410) 381-7500 BALT. • (301) 621-8100 WASH.		
DESIGNED D.M.	SITE DEVELOPMENT PLAN LOTS 9, 10, 13, 14, 18, 19, 40, 41 & 44-46	SCALE 1" = 30'
DRAWN J.R.	COLUMBIA VILLAGE OF RIVER HILL	DRAWING 2 OF 4
CHECKED J.M.E.	SECTION 4 AREA 5 FIFTH (5th) ELECTION DISTRICT HOWARD COUNTY, MARYLAND	JOB NO. 99-002
DATE 2-10-99	FOR: PATRIOT HOMES P.O. BOX 1018 Columbia, Maryland 21044	FILE NO. 99-002 X



APPROVED: DEPARTMENT OF PLANNING & ZONING	DATE
CHIEF, DEVELOPMENT ENGINEERING DIVISION	4/9/99
<i>Christa Hamilton</i>	4/13/99
CHIEF, DIVISION OF LAND DEVELOPMENT	DATE
<i>Ray S. Zolla</i>	4/14/99
DIRECTOR	DATE

LEGEND

CONTOUR INTERVAL	2 FT.
EXISTING CONTOUR	
PROPOSED CONTOUR	
DIRECTION OF DRAINAGE	
WALK OUT BASEMENT	
SPOT ELEVATION	+78.4
STABILIZED CONSTRUCTION ENTRANCE	
EROSION CONTROL MATTING	ECM
SILT FENCE	SF-SF-SF
LIMIT OF DISTURBED AREA	L.O.D.
TREE PROTECTION FENCE	
EXISTING TREES TO REMAIN	
SUPER DIVERSION FENCE	SDF-SDF

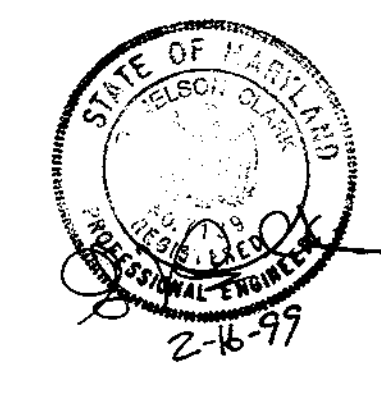


Reviewed for HOWARD S.C.D.
and meets Technical Requirements
Cheryl Simmons 4/6/99
Signature Date
U.S. Natural Resources Conservation Service

THIS DEVELOPMENT PLAN IS APPROVED
FOR SOIL EROSION AND SEDIMENT
CONTROL BY THE HOWARD SOIL
CONSERVATION DISTRICT.
John R. Rolinson 4/6/99
Approved

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. I also authorize periodic on-site inspection by the Howard Soil Conservation District or their authorized agents, as are deemed necessary.
W. Kunkle 2-16-99
NAME DATE

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.
G. Nelson Clark 2-16-99
DATE

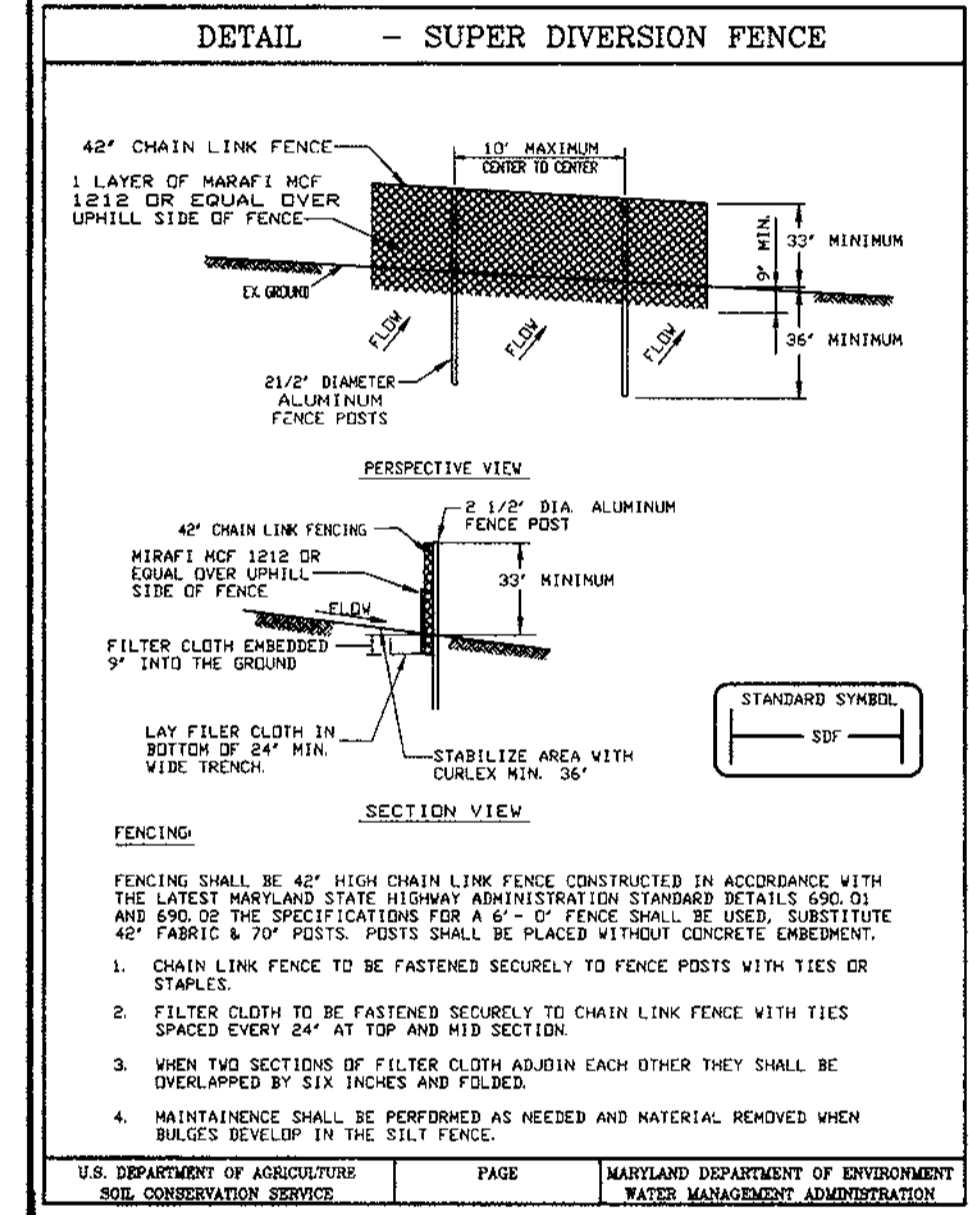
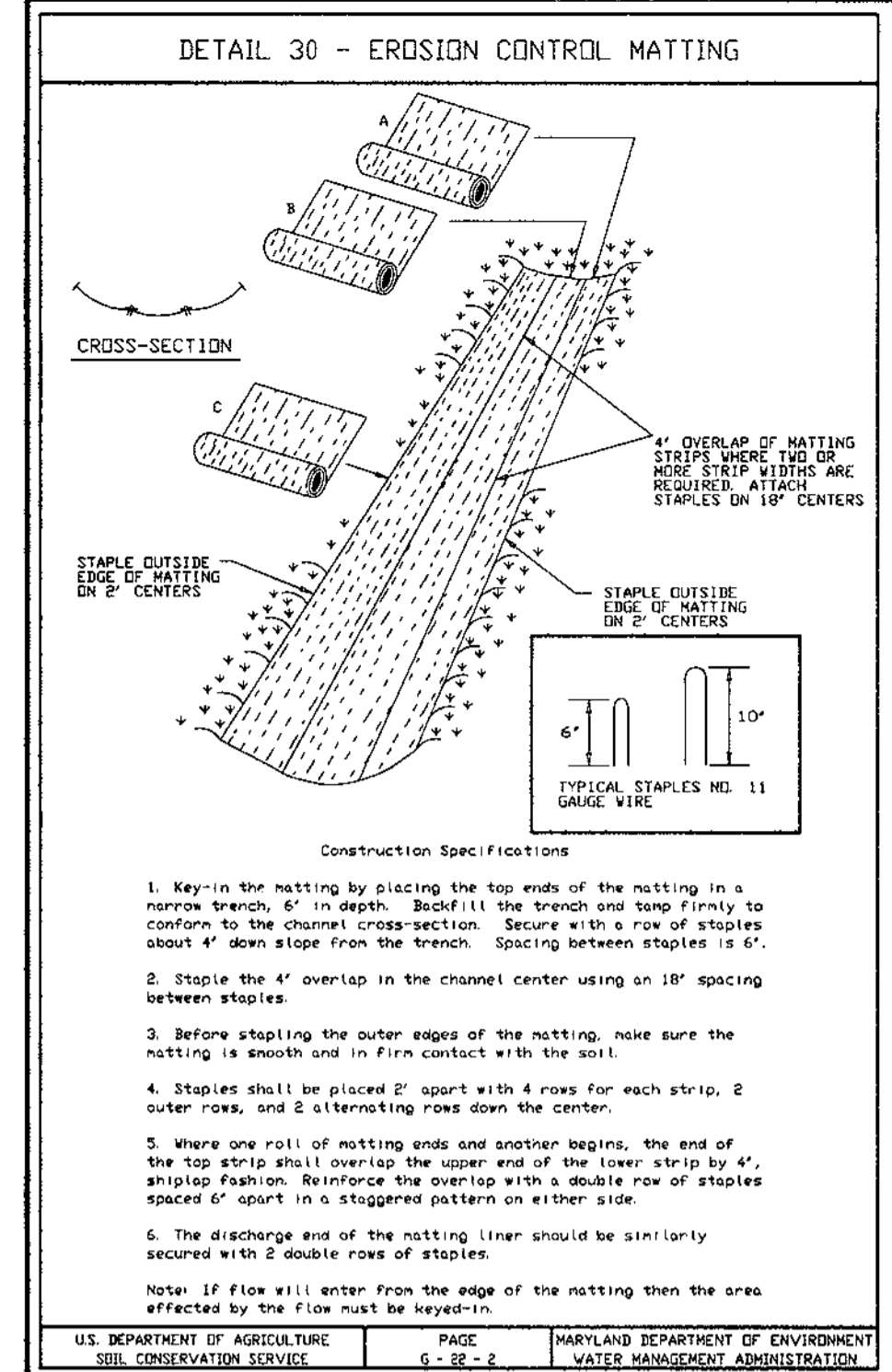


OWNER/DEVELOPER
THE HOWARD RESEARCH & DEVELOPMENT CORP.
10275 LITTLE PATUXENT PARKWAY
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CLARK • FINEFROCK & SACKETT, INC.
ENGINEERS • PLANNERS • SURVEYORS
7135 MINSTREL WAY • COLUMBIA, MD 21045 • (410) 381-7500 BALT. • (301) 621-8100 WASH.

DESIGNED T.D.	SEDIMENT & EROSION CONTROL PLAN LOTS 9, 10, 13, 14, 18, 19, 40, 41 & 44-46 COLUMBIA VILLAGE OF RIVER HILL SECTION 4 AREA 5 FIFTH (514) ELECTION DISTRICT HOWARD COUNTY, MARYLAND	SCALE 1" = 30'
DRAWN J.T.R.		DRAWING 3 OF 4
CHECKED T.D.		JOB NO. 99-002
DATE 2/10/99	FOR: PATRIOT HOMES P.O. BOX 1018 Columbia, Maryland 21044	FILE NO. 99-002S&E

APPROVED: DEPARTMENT OF PLANNING & ZONING
Cheryl Simmons 4/9/99
CHIEF, DIVISION OF LAND DEVELOPMENT
DATE
Paul S. Miller 4/14/99
DIRECTOR DATE



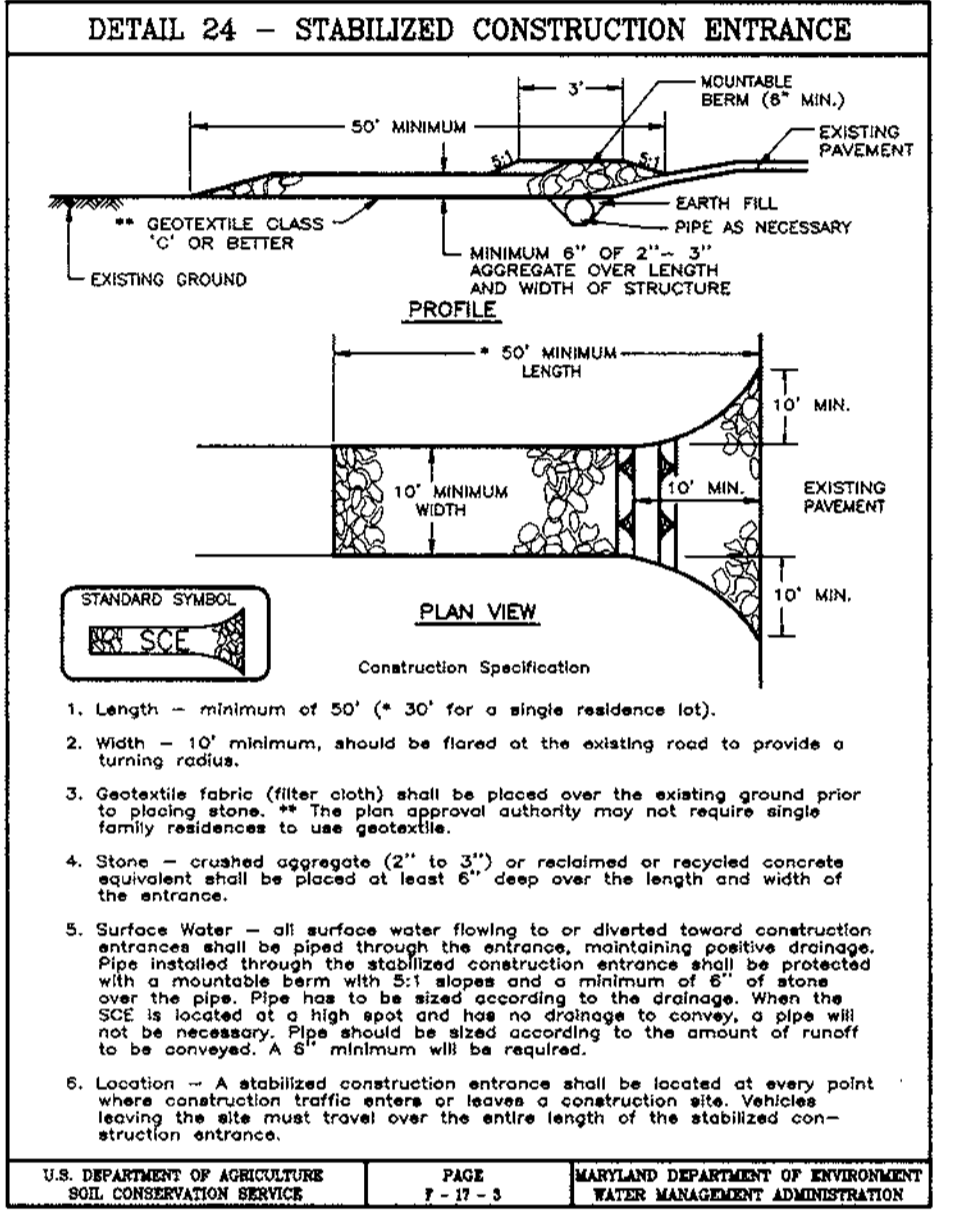
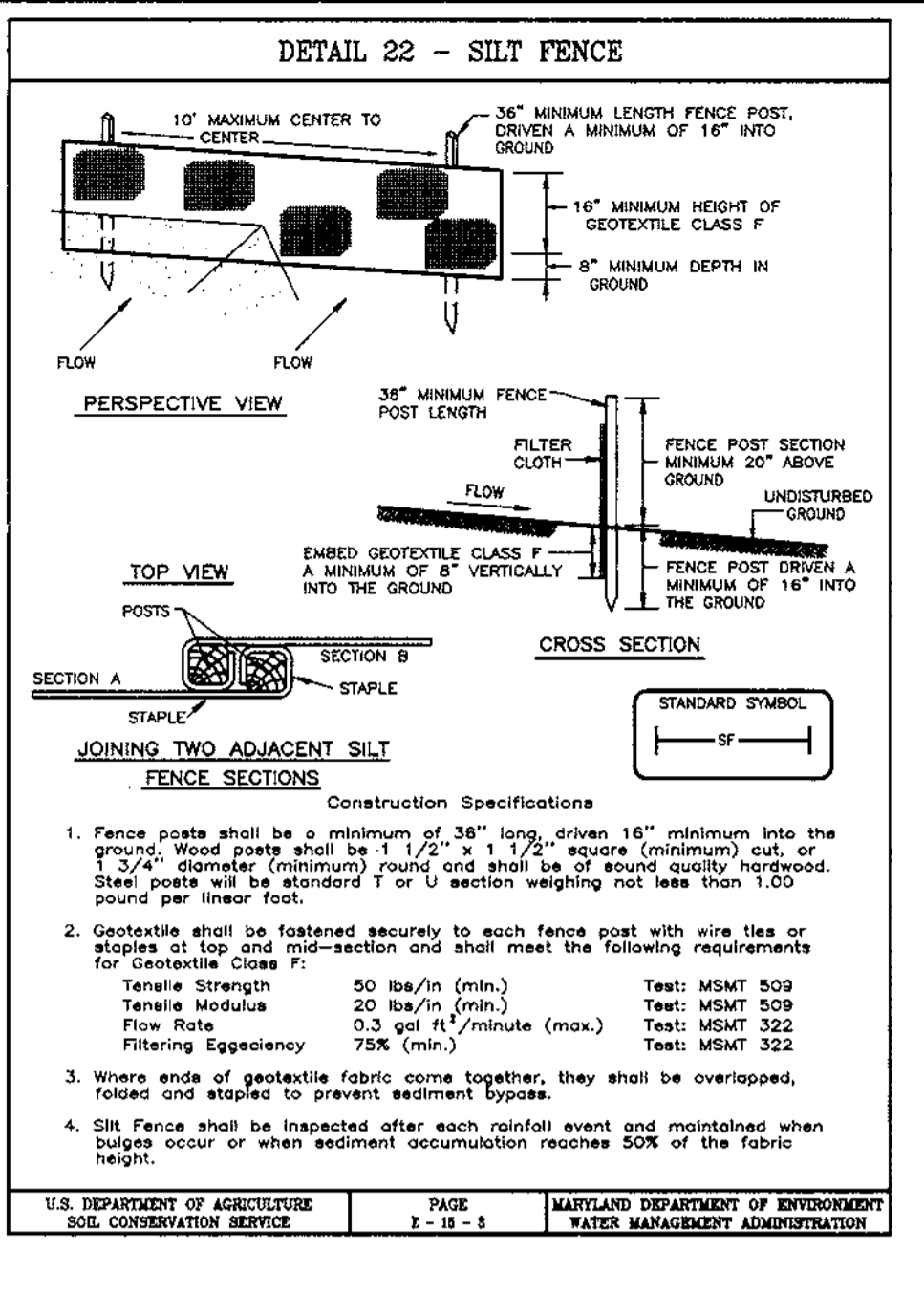
APPROVED: DEPARTMENT OF PLANNING & ZONING

4/9/99

4/13/99

4/14/99

4/14/99



Reviewed for HOWARD S.C.D. and meets Technical Requirements

4/6/99

Signature: [Signature]

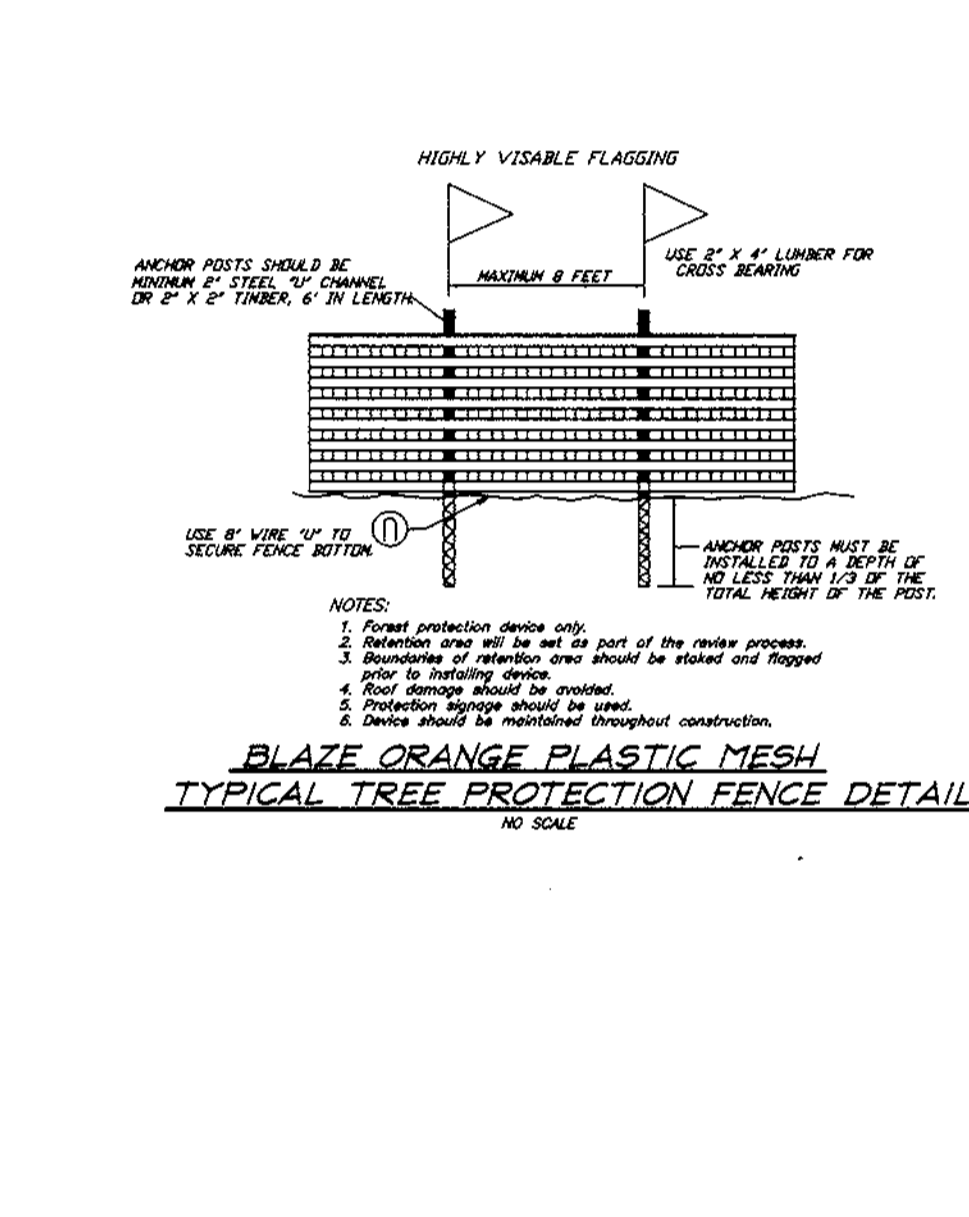
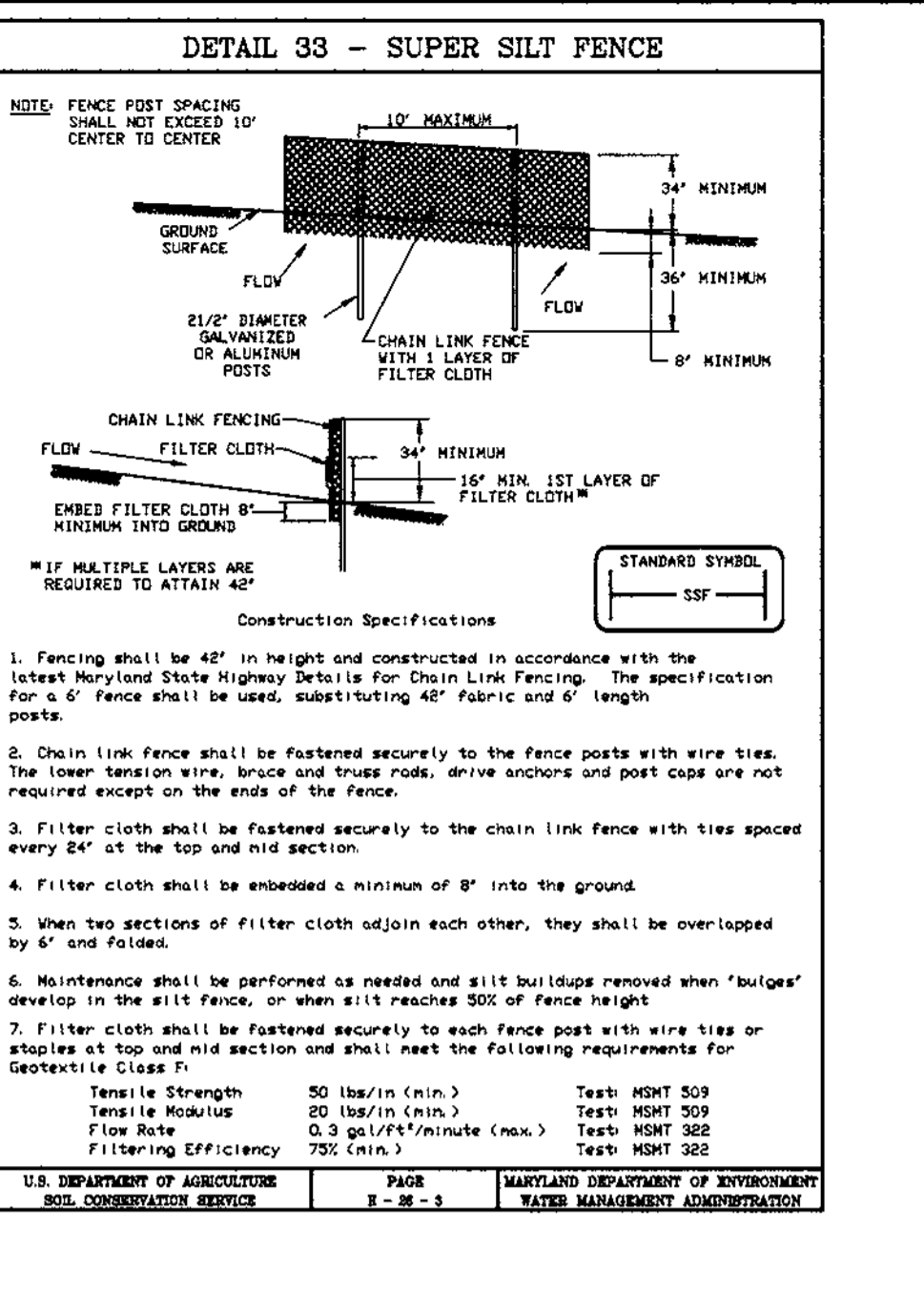
Date: 4/6/99

U.S. National Resources Conservation Service

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

4/6/99

Approved: [Signature]



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. I also authorize periodic on-site inspection by the Howard Soil Conservation District or their authorized agents, as are deemed necessary.

4/16/99

DATE: 2-16-99

DATE: 2-16-99

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, moderate to high salinity, and/or unacceptable soil gradation.

Conditions Where Practice Applies

- This practice is limited to areas having 2:1 or flatter slopes where:
 - The texture of the exposed subsoil/parent material is not adequate to produce vegetative growth.
 - The soil material is so shallow that the rooting zone is not deep enough to support plants or furnish controlling supplies of moisture and plant nutrients.
 - The original soil to be vegetated contains material toxic to plant growth.
 - The soil is so acidic that treatment with lime is not feasible.
- For the purpose of these Standards and Specifications, areas having slopes steeper than 2:1 require special consideration and design for adequate stabilization. Areas having slopes steeper than 2:1 shall have the appropriate stabilization shown on the plans.

Construction and Material Specifications

- Topsoil salvaged from the existing site may be used provided that it meets the standards set forth in these specifications. Typically, the depth of topsoil to be salvaged for a given site type can be found in the representative soil profile section in the Soil Survey published by USDA-SCS in cooperation with Maryland Agricultural Experiment Station.
- Topsoil Specifications - Silt to be used as topsoil must meet the following:
 - Topsoil shall be a loam, sandy loam, clay loam, silt loam, sandy clay loam, heavy sand. Other soils may be used if recommended by an agronomist or a soil scientist and approved by the appropriate approval authority. Regardless, topsoil shall be a mixture of contrasting textures, subsoils and shall contain less than 5% by volume of chert, stones, slag, coarse fragments, gravel, sticks, roots, twigs, or other materials larger than 1/2" in diameter.
 - Topsoil must be free of plants or plant parts such as Bermuda grass, cogon grass, Johnsongrass, nutgrass, poison ivy, thistle, or others as specified.
 - Where the subsoil is either highly acidic or composed of heavy clays, ground limestone shall be spread at the rate of 4-8 lbs/1000 sq. ft. (200-400 pounds per 1000 square feet) prior to the placement of topsoil. Lime shall be distributed uniformly over designated areas and worked into the soil in conjunction with tillage operations as described in the following procedures.

PERMANENT SEEDING NOTES

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

SEEDING PREPARATION: Loosen upper three inches of soil by raking, disk or other acceptable means before seeding, if not previously done.

SOIL ADJUSTMENTS: In lieu of soil test recommendations, use one of the following schedules:

- Preferential-Apply 2 tons per acre dolomitic limestone (42 lbs/1000 sq. ft.) and 400 lbs per acre 10-10-10 fertilizer (14 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 (14 lbs./1000 sq. ft.).
- Acceptable-Apply 2 tons per acre dolomitic limestone (42 lbs./1000 sq. ft.) and apply 1000 lbs. per acre 10-10-10 fertilizer (28 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 40 lbs. per acre (14 lbs./1000 sq. ft.) of Kentucky 31 Tall Fescue, for the period May 1 thru July 31, seed with 40 lbs. Kentucky 31 Tall Fescue per acre and 2 lbs. per acre (28 lbs./1000 sq. ft.) of seeding lavender. During the period of October 16 thru February 28, protect site by Option (1) 2 tons per acre urea fertilizer (56 lbs./1000 sq. ft.) or seed as possible in the spring. Option (2) Use soil. Option (3) Seed with 60 lbs/acre Kentucky 31 Tall Fescue and mulch with 2 lbs/acre urea fertilizer.

MULCHING: Apply 1 1/2 to 2 tons per acre (70 to 90 lbs./1000 sq. ft.) of certified small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 200 gallons per acre (8 gal/1000 sq. ft.) of emulsified asphalt on flat areas. On slopes 6 feet or higher, use 540 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

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

SOIL ADJUSTMENTS: Apply 400 lbs. per acre 10-10-10 fertilizer (14 lbs./1000 sq. ft.).

SEEDING: For periods March 1 thru April 30 and from August 16 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 15, seed with 3 lbs. per acre of weeping lovegrass (07 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 seed.

MULCHING: Apply 1 1/2 to 2 tons per acre (70 to 90 lbs./1000 sq. ft.) of certified small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 200 gallons per acre (8 gal/1000 sq. ft.) of emulsified asphalt on flat areas. On slopes 6 feet or higher, use 540 gallons per acre (8 gal/1000 sq. ft.) for anchoring.

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

SEDIMENT AND EROSION CONTROL NOTES

- 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 (313.0505).
- All vegetative and structural practices are to be installed according to the provisions of this plan and are to be in accordance with the NEW MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL and revisions thereto.
- 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 slopes greater than 2:1.
 - 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 perimeters in accordance with Vol. I, Chapter 7, of the HOWARD COUNTY DESIGN MANUAL, Storm Drainage.
- All disturbed areas must be stabilized within the time period specified above in accordance with the NEW MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for permanent seedings, soil, temporary seeding and mulching. Temporary stabilization with mulch alone can only be done when recommended seeding rates 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:	1.87 Acres
Area Disturbed:	0.78 Acres
Area to be reseeded or paved:	0.18 Acres
Area to be vegetatively stabilized:	1.18 Acres
Total Fill:	2318 CY
Off-site Stable/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.
- Trenches for the construction of utilities is limited to three pipe lengths or that which shall be back-filled and stabilized within one working day, whichever is shorter.
- The total amount of silt fence = 1775 LF
- The total amount of super silt fence = 1 LE
- The total amount of earth dike =

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

CONSTRUCTION SEQUENCE:

	NO. OF DAYS
1. Obtain grading permit.	7
2. Install tree protection fence.	7
3. Install sediment and erosion control devices and stabilize.	14
4. Excavate for foundations, rough grade and temporarily stabilize.	30
5. Construct structures, sidewalks and driveways.	60
6. Final grade, install Erosion Control Matting and stabilize in accordance with standards and specifications.	14
7. Upon approval of the sediment control inspector, remove sediment and erosion control devices and stabilize.	7

* Delay construction of houses on lots: N/A

OWNER / DEVELOPER
THE HOWARD RESEARCH AND DEVELOPMENT CORP.
10275 LITTLE PATUXENT PARKWAY
COLUMBIA, MARYLAND 21044

CLARK • FINEFROCK & SACKETT, INC.
ENGINEERS • PLANNERS • SURVEYORS

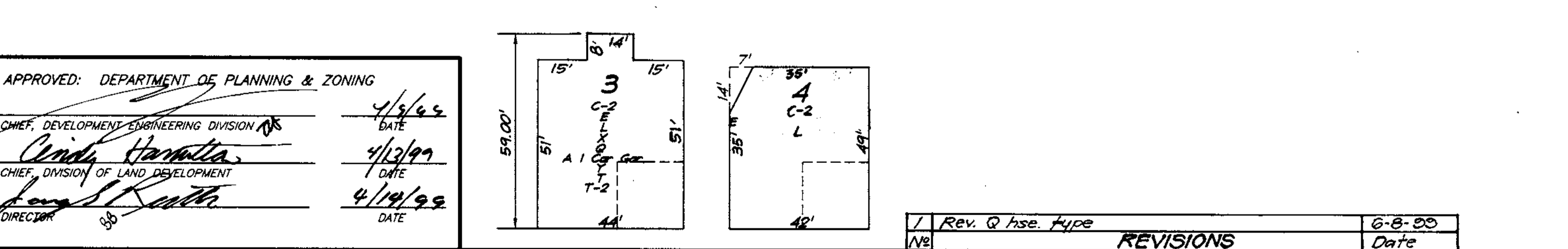
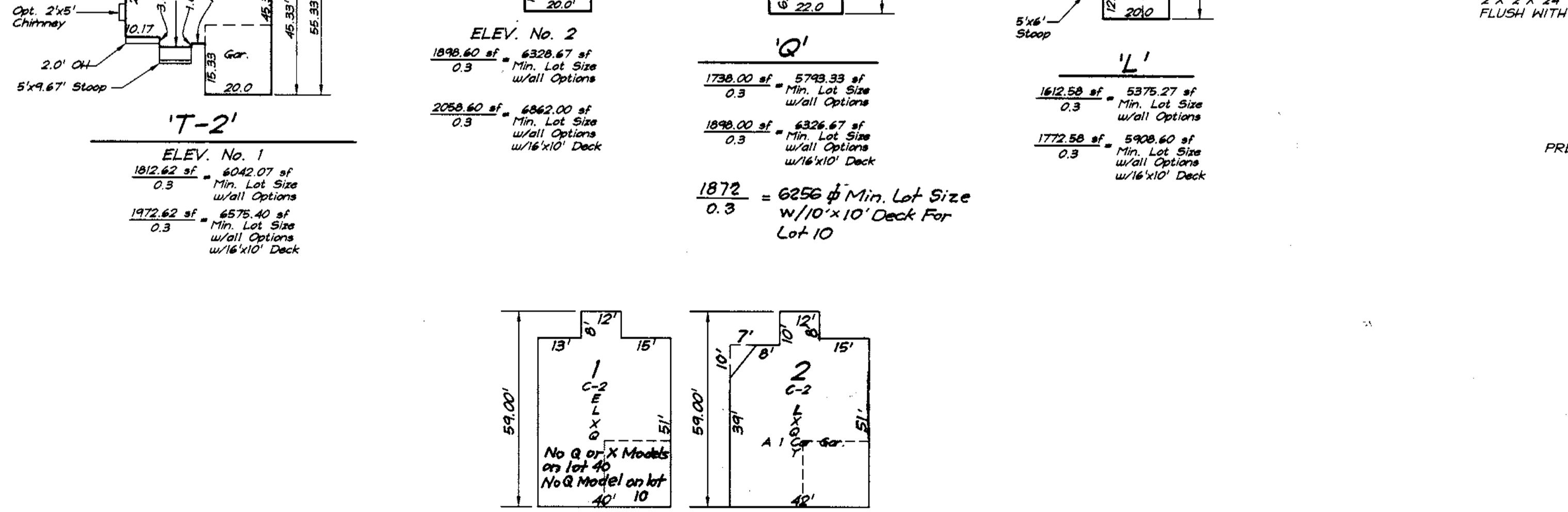
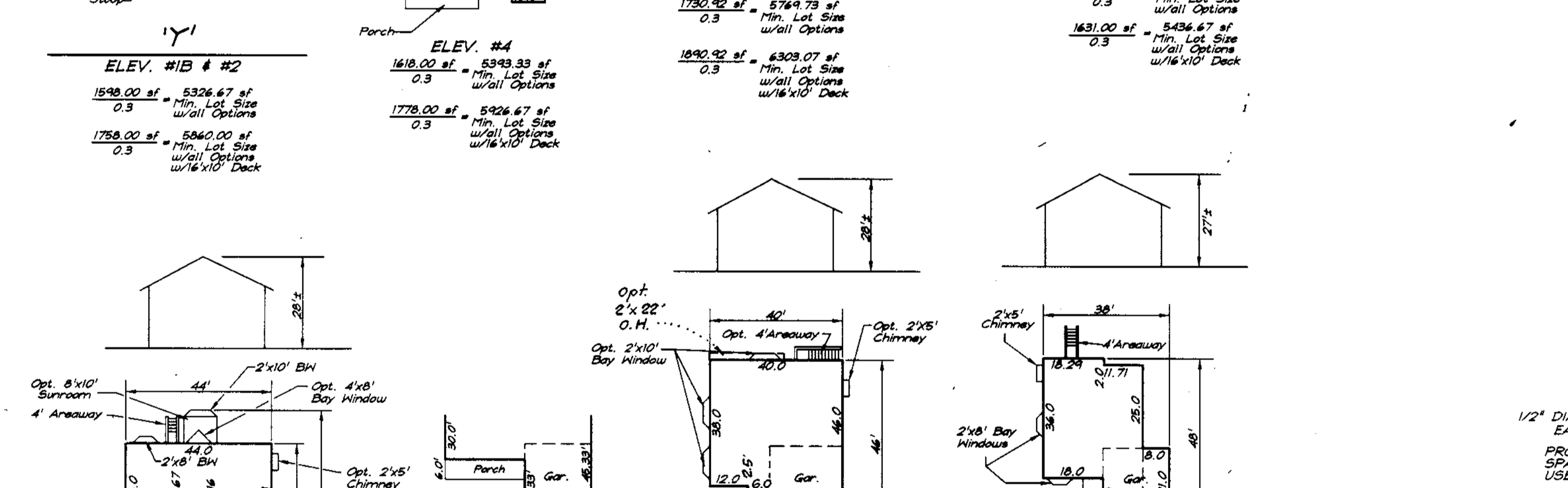
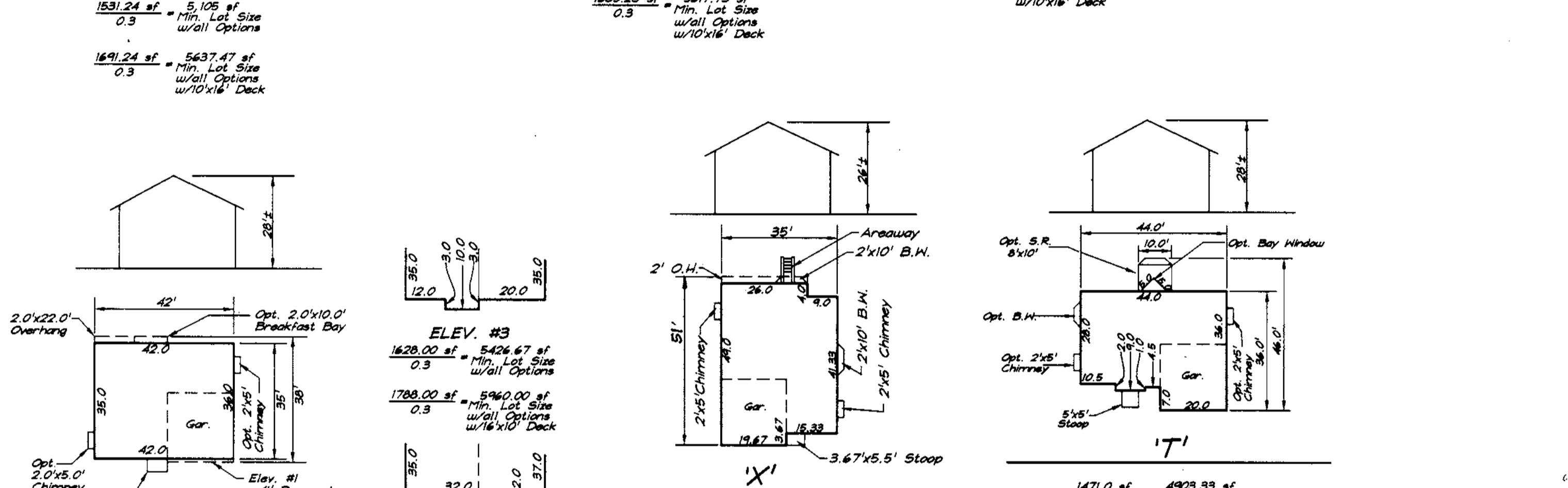
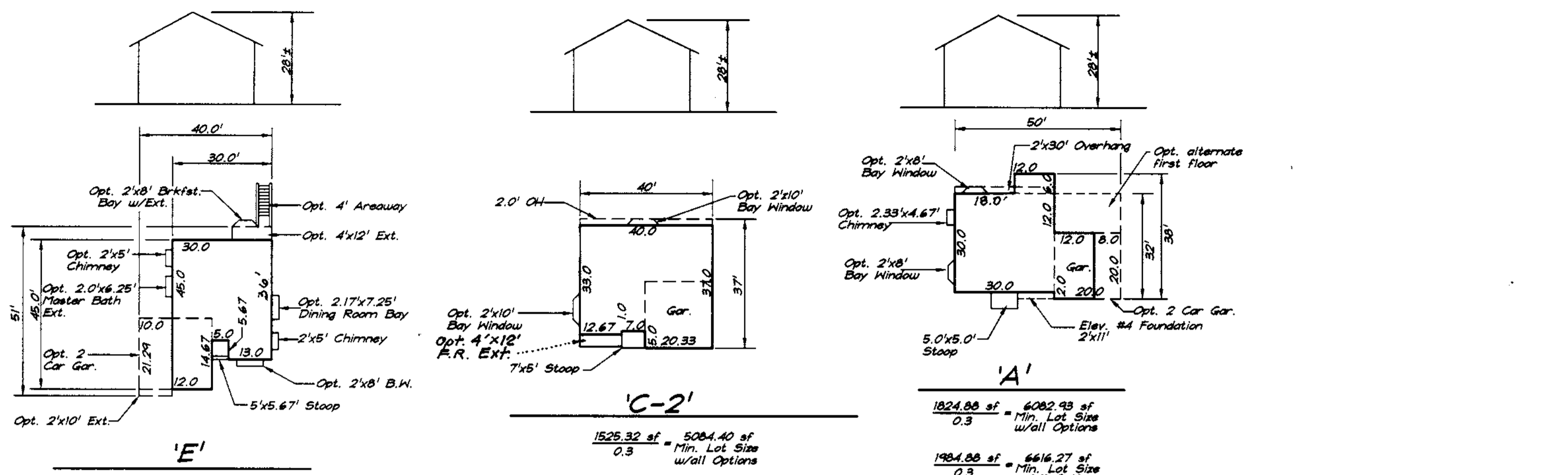
7135 MINSTREL WAY • COLUMBIA, MD 21045 • (410) 381-7500 BALT. • (301) 621-8100 WASH.

DESIGNED PS	SEDIMENT AND EROSION CONTROL PLAN LOTS 9, 10, 13, 14, 18, 19, 40, 41, 44-46 COLUMBIA VILLAGE OF RIVER HILL SECTION 4 AREA 5 FIFTH (5th) ELECTION DISTRICT HOWARD COUNTY, MARYLAND FOR: PATRIOT HOMES P.O. BOX 108 (HARRERS FARM ROAD) Columbia, Maryland 21044	SCALE 1" = 30'
DRAWN BH		DRAWING 4 of 4
CHECKED TD		JOB NO. 99-002
DATE 2/10/99		FILE NO. 99-002 B-2

STATE OF MARYLAND
G. NELSON CLARK
2-16-99

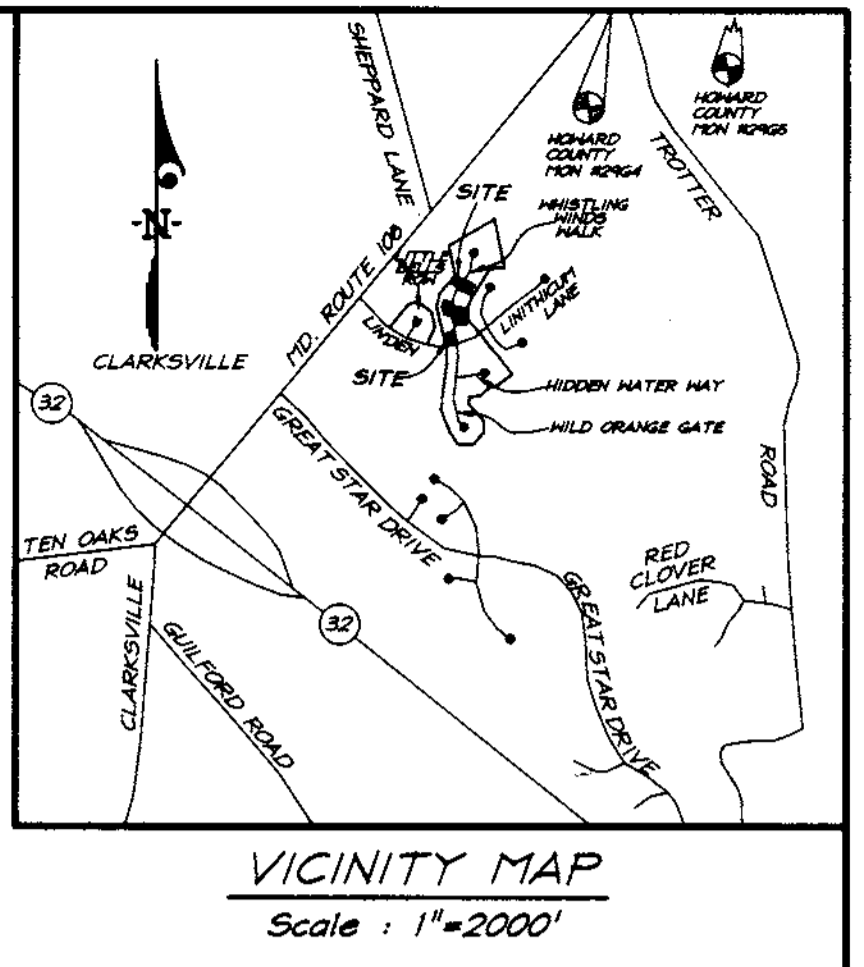
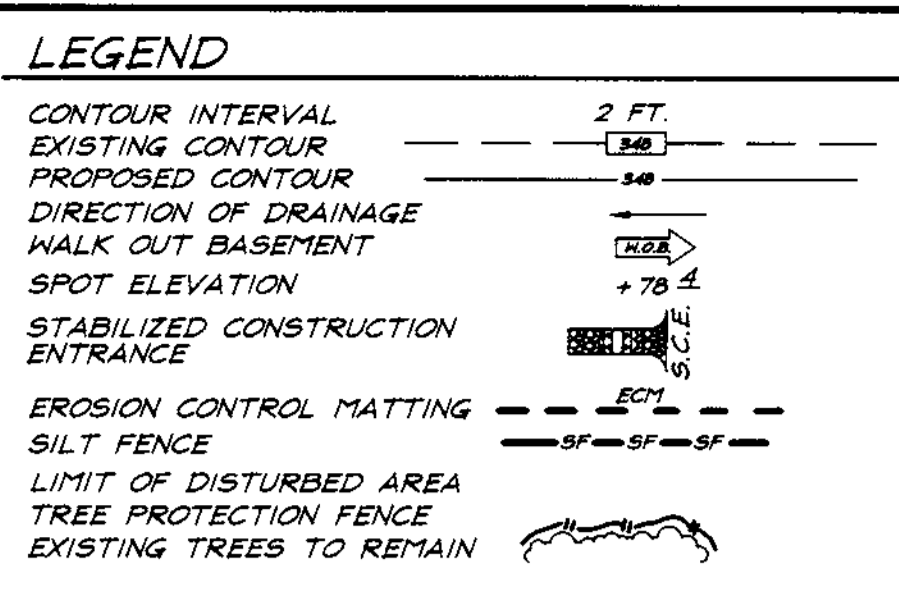
2-16-99

GDP 99-91



ADDRESS CHART	
LOT NUMBER	STREET ADDRESS
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SEDIMENT AND EROSION CONTROL PLAN	3 of 4
SEDIMENT AND EROSION CONTROL DETAILS	4 of 4



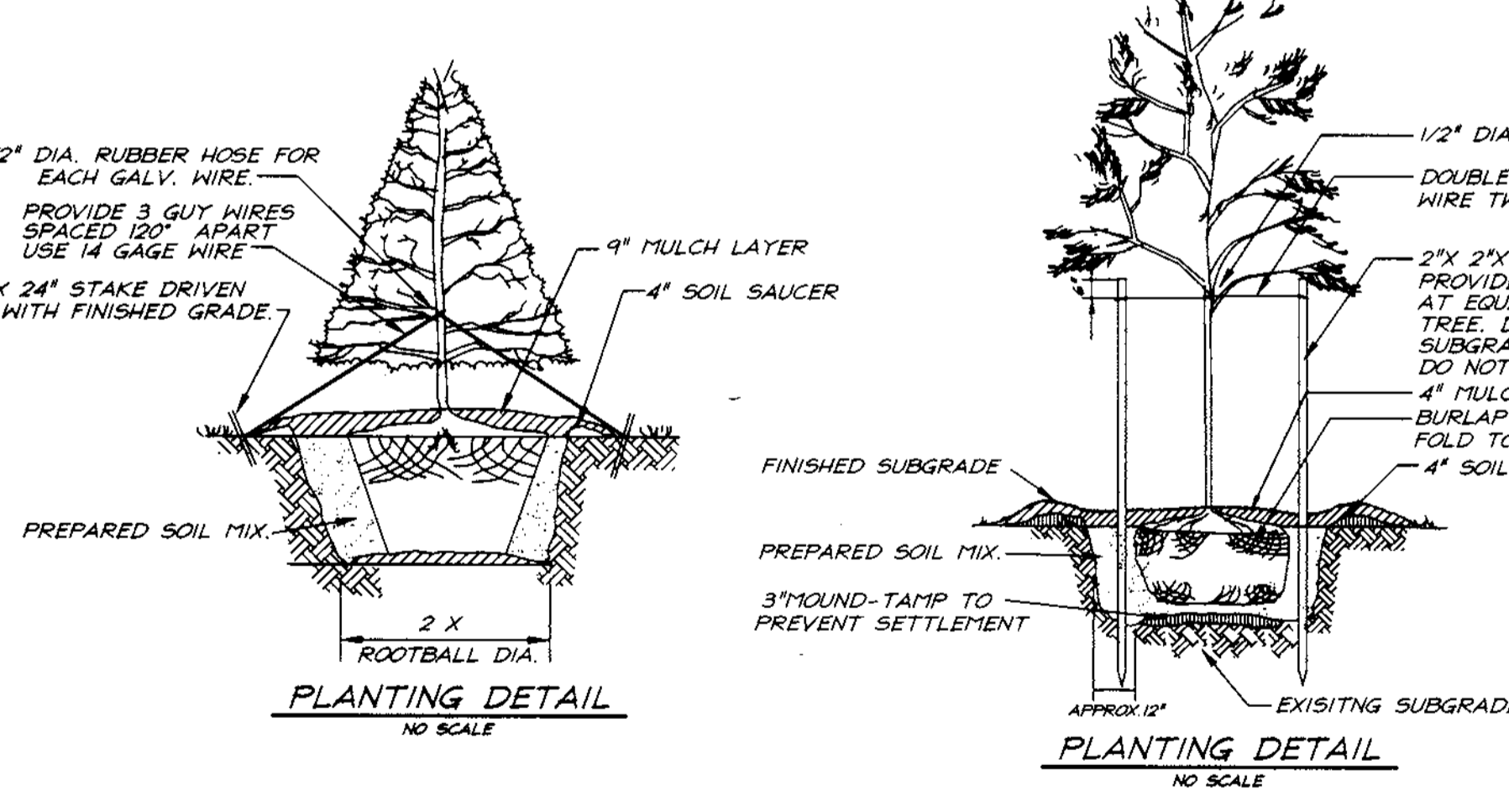
BENCHMARKS:
 Howard County Monument 2964
 Intersection of MD. Route 106 and Trotter Road
 Howard County Monument 2965
 an additional 2,544' Northeastly along MD. Route 106 away from Site

- GENERAL NOTES:**
- Subject property is zoned: NTSFMP per 10-18-93 Comprehensive Zoning Plan.
 - The total area included in this submission is : 1.8731 Acres.
 - The total number of lots included in this submission is : 11
 - Improvement to property : Single Family Detached
 - The maximum lot coverage permitted is : 30%
 - Department of Planning and Zoning reference file numbers : S-93-21,P-95-12,F-96-102,F-98-122.
 - Utilities shown as existing are taken from approved Water and Sewer plans Contract #34-3586-D, approved Road Construction plans F-96-102, 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 taken from Road Construction Plans prepared by Morris & Ritchie Associates in January 1996.
 - The coordinates shown hereon are based upon the Howard County Geodetic Control which is based upon the Maryland State Plane Coordinate System - Howard County Monuments Numbers : 2964 & 2965
 - 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 Ho. Co. Design Manual Volume IV details R.6.03 & R.6.05.
 - In accordance with FDP-Phase 222-A, Part II, 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 3 feet into the front or rear setbacks. Areeaways may not project into any setbacks.
 - SHC Elevations shown are at the Property lines.
 - This plan has been prepared in accordance with provision of Section 16-124 of the Howard County Code and the Landscape Manual. Financial Surety for the required 5 landscape trees in the amount of \$1050.00 is part of the builders Grading Permit application, for Lot 9.
 - Quantity Stormwater Management for section 4, area 5 is provided by three facilities; the refurbished SWM pond #1 South of Linden Lithicum Lane (F-96-89), The culvert at Great Star Drive (F-96-110) and SWM pond #4 in section 4 in area 4 (F-96-130) Quality Management for this section will be provided by three facilities; a Forbay North of SWM pond #1 (F-96-89), A shallow marsh facility at the end of Wild Orange Gate and an extended detention facility within pond #4 (F-96-130) the subdivision is located in the Patuxent River Area Sub-Basin and is a Class 1 Watershed.

SCHEDULE A PERIMETER LANDSCAPE EDGE	
CATEGORY	ADJACENT TO ROADWAYS
LANDSCAPE TYPE B	LOT 9
LINEAR FEET OF ROADWAY FRONTAGE/PERIMETER	123.68 LF
NUMBER OF PLANTS REQUIRED	
SHADE TREES	2
EVERGREEN TREES	3
NUMBER OF PLANTS PROVIDED	
SHADE TREES	2
EVERGREEN TREES	3

PLANT SCHEDULE				
KEY	PLANT NAME	SIZE	QUAN.	REMARKS
AR	ACER RUBRUM OCT GLORY RED MAPLE	24-3" CAL. 12-13' HT.	2	B&B HEAVY
PS	PINUS STROBUS WHITE PINE	6-8' HT.	3	B&B HEAVY

- NOTES FOR COLUMBIA PLANT SCHEDULES:**
- All plant material shall be full and heavy, be well formed and symmetrical, conform to the most current AAN specifications and be installed in accordance with HRD planting specifications.
 - Contractor shall verify location of all underground utilities prior to digging.
 - 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.



OWNER / DEVELOPER
 THE HOWARD RESEARCH AND DEVELOPMENT CORP.
 10275 LITTLE PATUXENT PARKWAY
 COLUMBIA, MARYLAND 21044

DEVELOPER'S/BUILDERS CERTIFICATE
 I/We certify that the landscaping shown on this plan will be done according to plan, section 16.124 of the Howard County Code and the Howard County Landscape Manual. I/We further certify that upon completion a Certificate of Landscape Installation, accompanied by an executed one year guarantee of plant materials, will be submitted to the Department of Planning and Zoning.

P.W. Kunkle
 P.W. KUNKLE

2-16-99
 Date



APPROVED: DEPARTMENT OF PLANNING & ZONING
 CHIEF, DEVELOPMENT/ENGINEERING DIVISION
 DATE: 4/14/99
 CHIEF, DIVISION OF LAND DEVELOPMENT
 DATE: 4/14/99

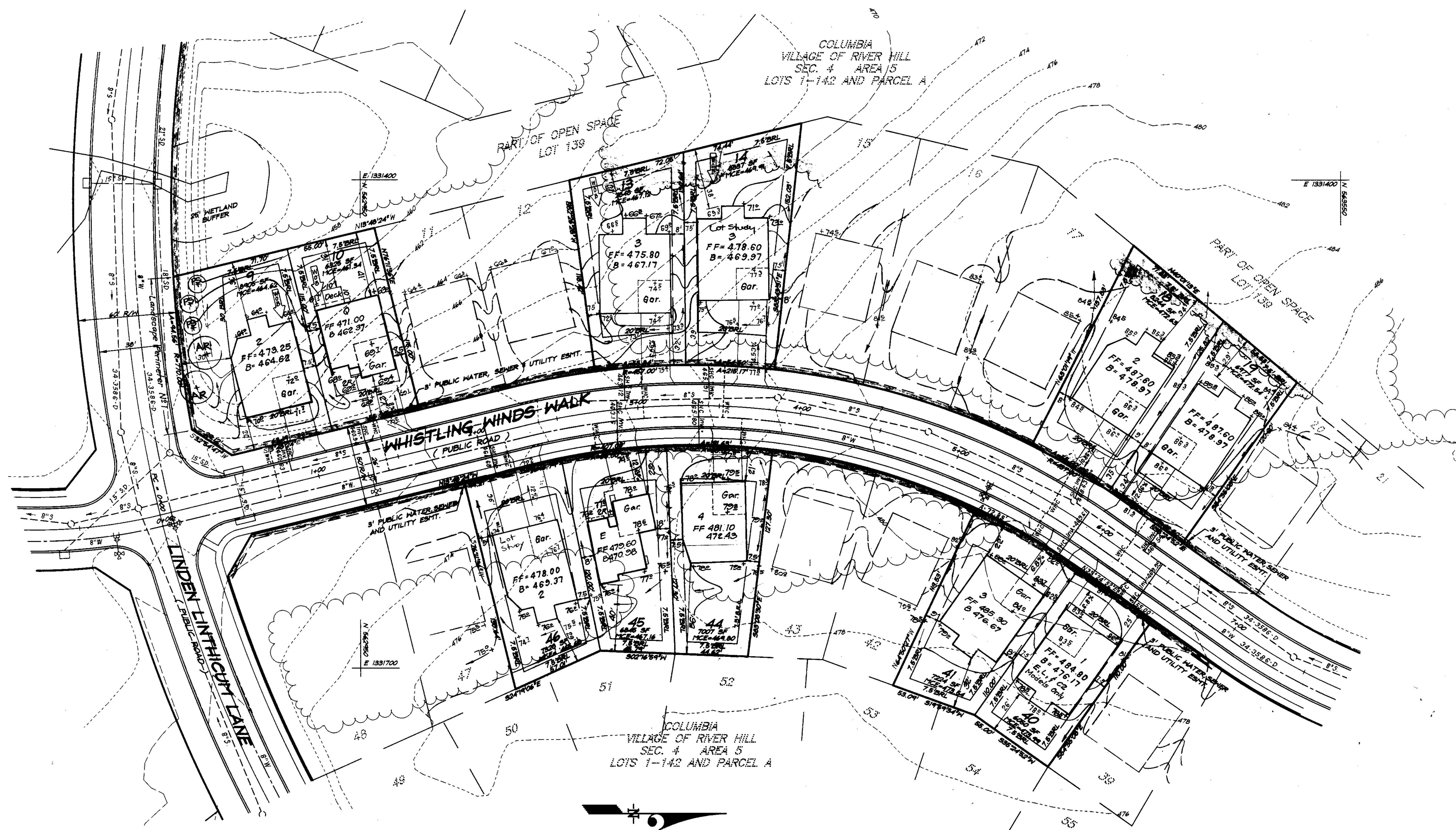
Rev. #	hse. type	Date
1	Rev. Q hse. type	6-8-99
2	REVISIONS	

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 Road Construction Plans F-96-102 and/or approved Water and Sewer Plans Contract #34-3586-D.

SUBDIVISION NAME	COLUMBIA VILLAGE OF RIVER HILL	SECTION/AREA	4/5	LOTS/PARCELS	9, 10, 13, 14, 18, 19, 40, 41 & 44-46
PLAT NO.	1285E/1285E	BLOCK NO.	1	ZONE	NTSFLD
TAX MAP NO.	35	ELECTION DIST.	5TH	CENSUS TRACT	6055
WATER CODE	1-12	SEWER CODE	6652500		

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


DESIGNED	DM	SITE DEVELOPMENT PLAN	SCALE
DRAWN	BH	LOTS 9, 10, 13, 14, 18, 19, 40, 41 & 44-46	1" = 30'
CHECKED		COLUMBIA VILLAGE OF RIVER HILL	DRAWING
		SECTION 4 AREA 5	1 of 4
		FIFTH (5TH) ELECTION DISTRICT	JOB NO.
		HOWARD COUNTY, MARYLAND	99-002
DATE	2/4/99	FOR: PATRIOT HOMES P.O. BOX 1018 Columbia, Maryland 21044	FILE NO.
			99-002-X

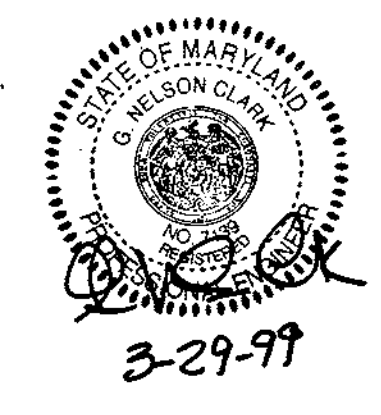


COLUMBIA
VILLAGE OF RIVER HILL
SEC. 4 AREA 5
LOTS 1-142 AND PARCEL A

COLUMBIA
VILLAGE OF RIVER HILL
SEC. 4 AREA 5
LOTS 1-142 AND PARCEL A

OWNER / DEVELOPER
THE HOWARD RESEARCH AND DEVELOPMENT CORP.
10275 LITTLE PATUXENT PARKWAY
COLUMBIA, MARYLAND 21044

 CLARK • FINEFROCK & SACKETT, INC. ENGINEERS • PLANNERS • SURVEYORS 7135 MINSTREL WAY • COLUMBIA, MD 21045 • (410) 381-7500 BALT. • (301) 621-8100 WASH.		DESIGNED	D.M.	SCALE	1" = 30'
		DRAWN	J.R.	DRAWING	2 OF 4
CHECKED	J.M.E.	JOB NO.	99-002	FILE NO.	99-002 X
DATE	2-10-99	FOR	PATRIOT HOMES P.O. BOX 1018 Columbia, Maryland 21044		

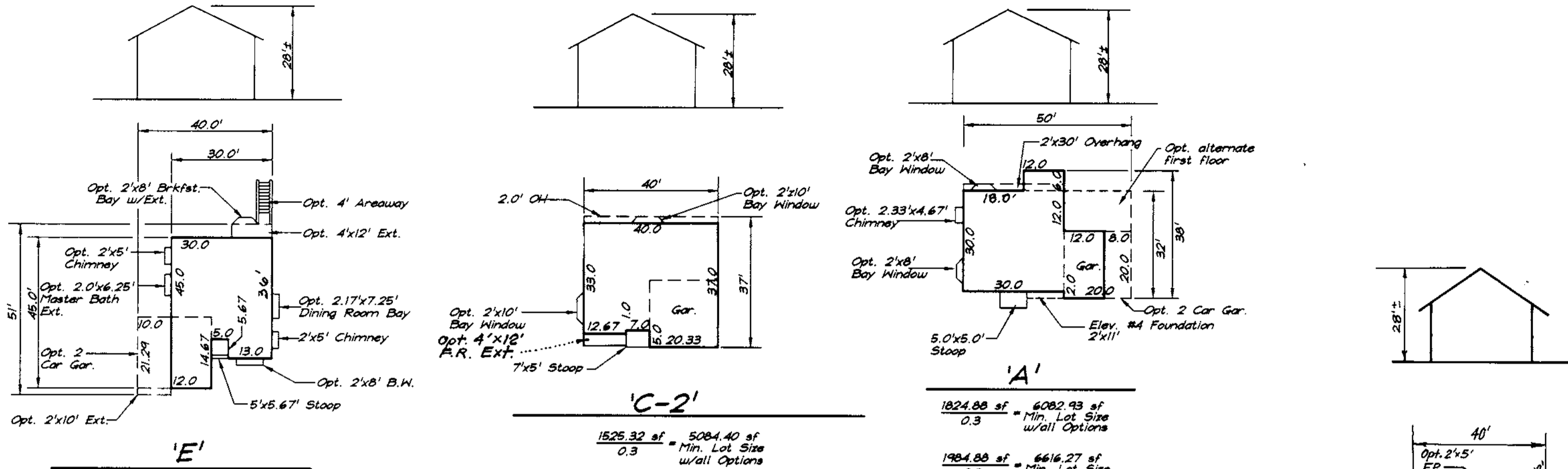


APPROVED: DEPARTMENT OF PLANNING & ZONING

DATE	4/1/99
DATE	4/13/99
DATE	4/14/99

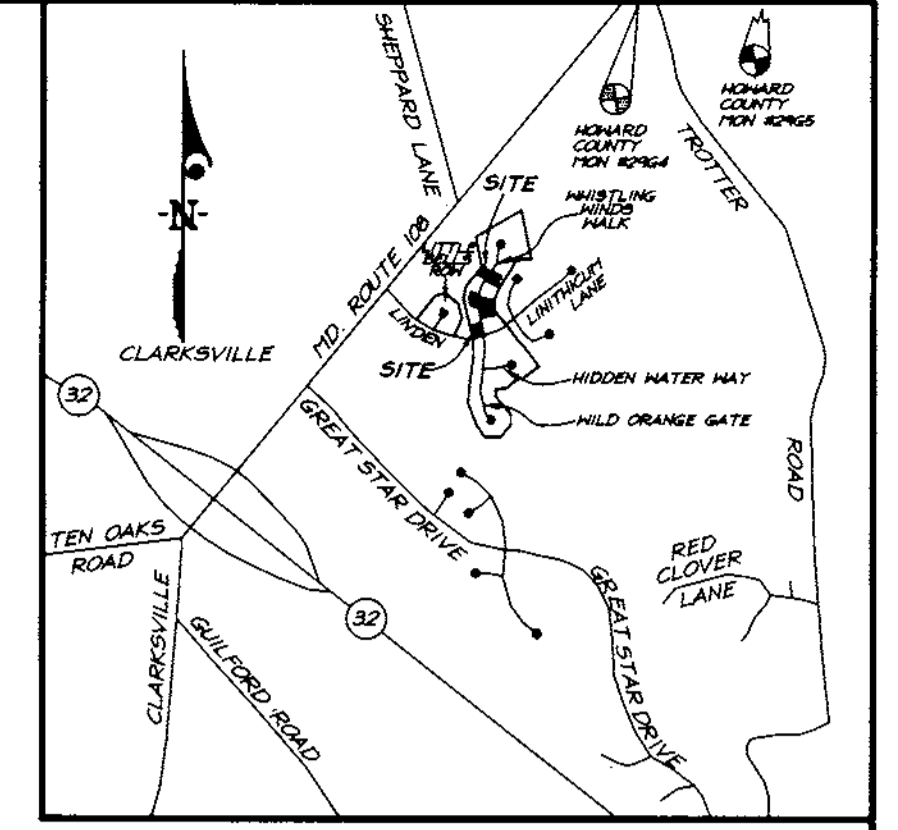
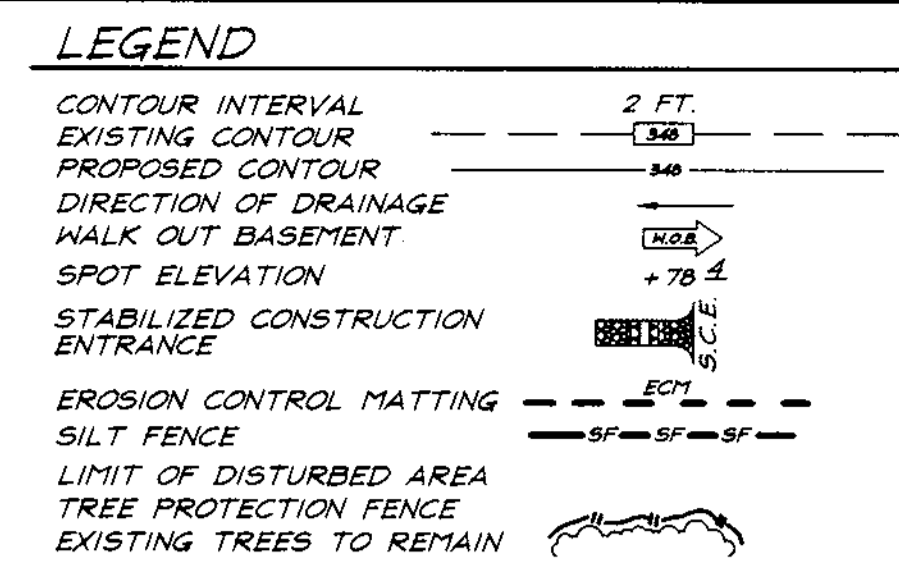
[Signature] Director
 [Signature] Chief, Development Engineering Division
 [Signature] Chief, Division of Land Development

NO	Rev. base & grid lot 10	Date
1	Rev. base & grid lot 10	6-9-99
2	REVISIONS	Date



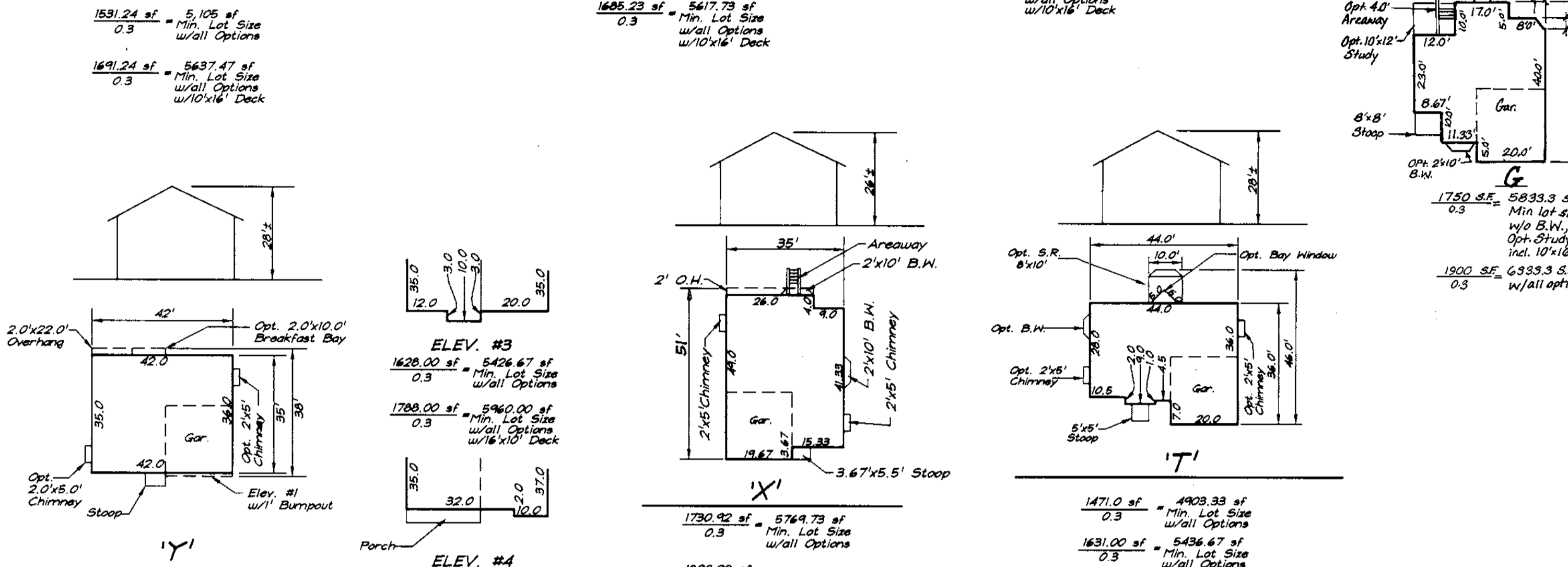
ADDRESS CHART	
LOT NUMBER	STREET ADDRESS
9	5701 WHISTLING WINDS WALK
10	5705 WHISTLING WINDS WALK
13	5717 WHISTLING WINDS WALK
14	5721 WHISTLING WINDS WALK
18	5737 WHISTLING WINDS WALK
19	5741 WHISTLING WINDS WALK
40	5732 WHISTLING WINDS WALK
41	5728 WHISTLING WINDS WALK
44	5716 WHISTLING WINDS WALK
45	5712 WHISTLING WINDS WALK
46	5708 WHISTLING WINDS WALK

SHEET INDEX	
DESCRIPTION	SHEET No.
COVER SHEET	1 of 4
SITE DEVELOPMENT	2 of 4
SEDIMENT AND EROSION CONTROL PLAN	3 of 4
SEDIMENT AND EROSION CONTROL DETAILS	4 of 4



BENCHMARKS:
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 Intersection of MD. Route 108 and Trotter Road
 Howard County Monument 2965
 an additional 2,544' Northeastly
 along MD. Route 108 away from Site

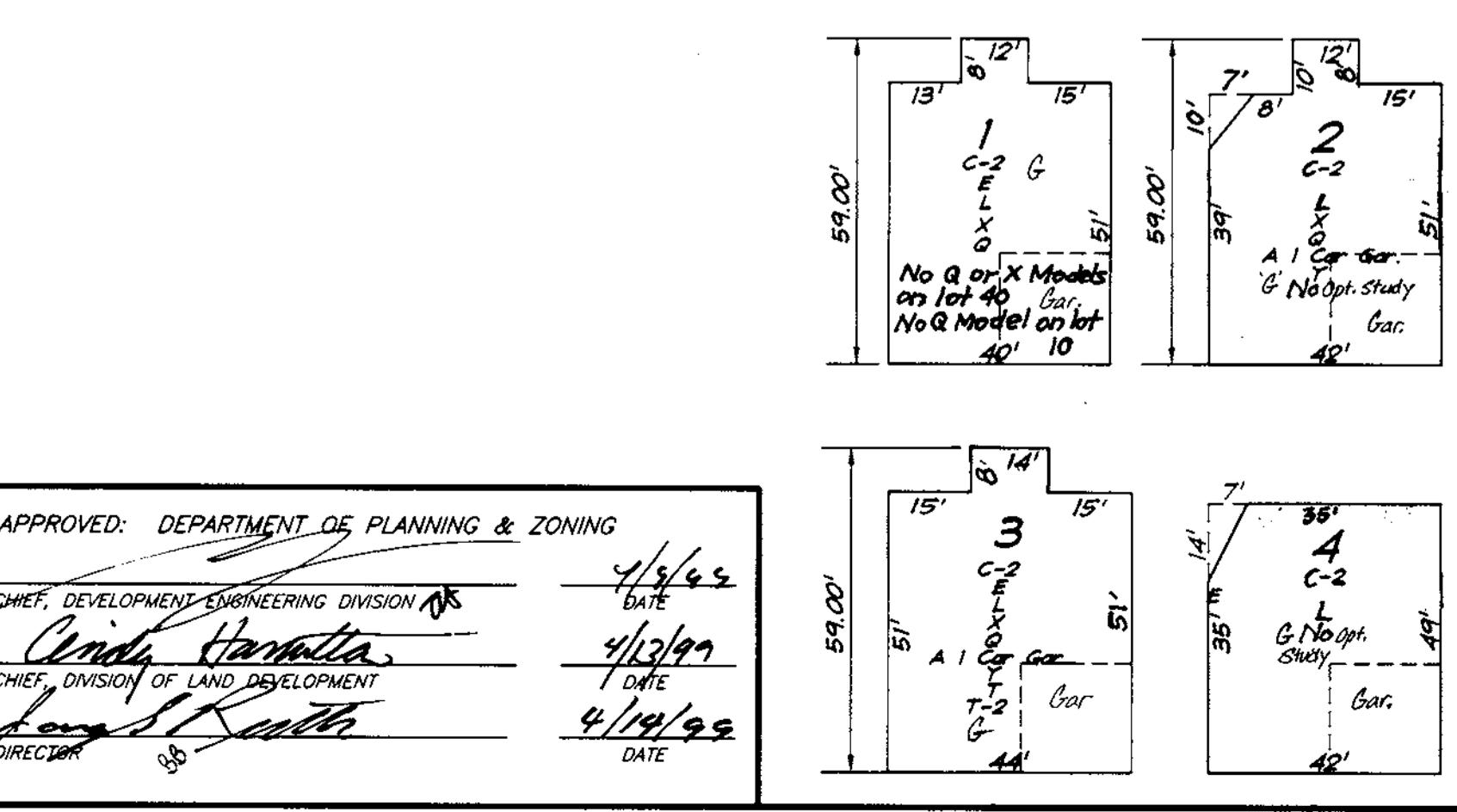
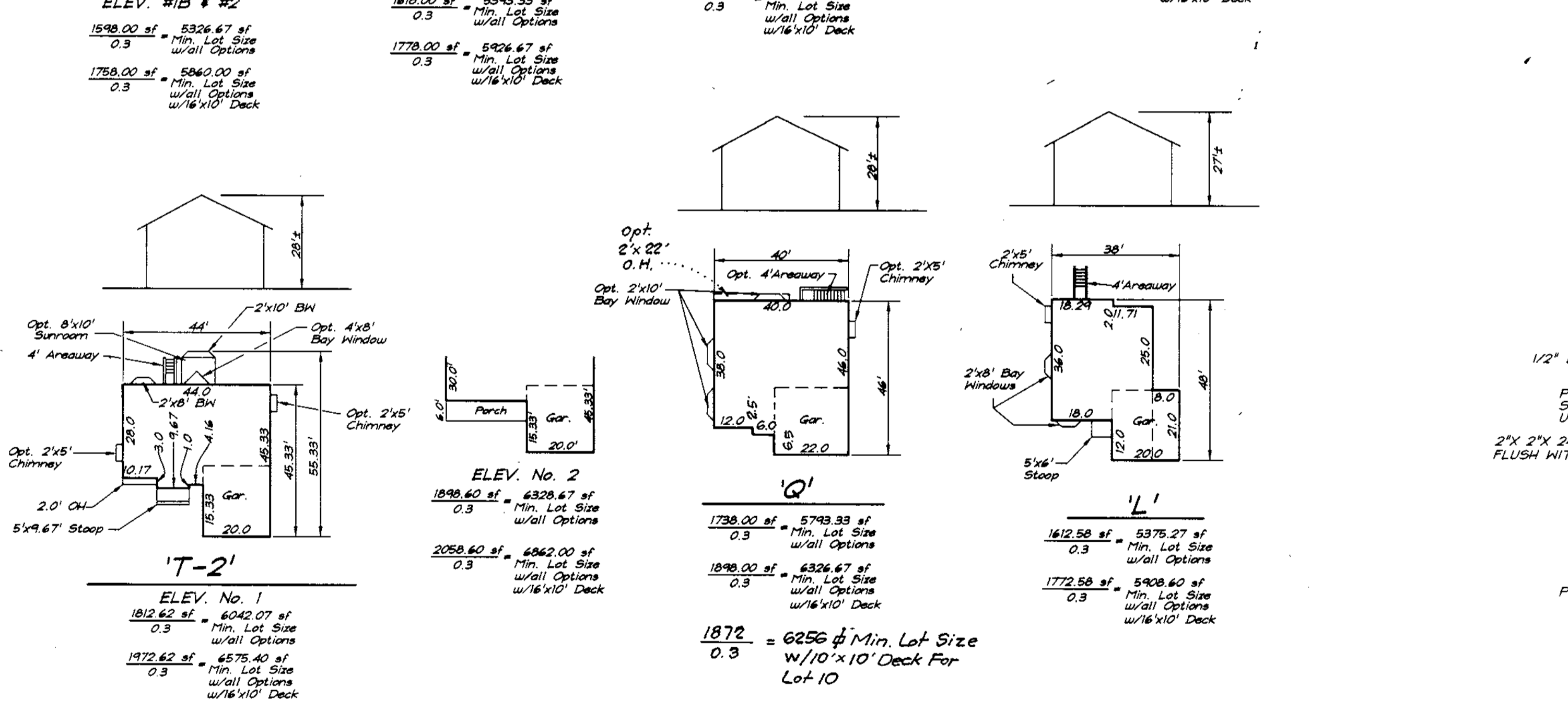
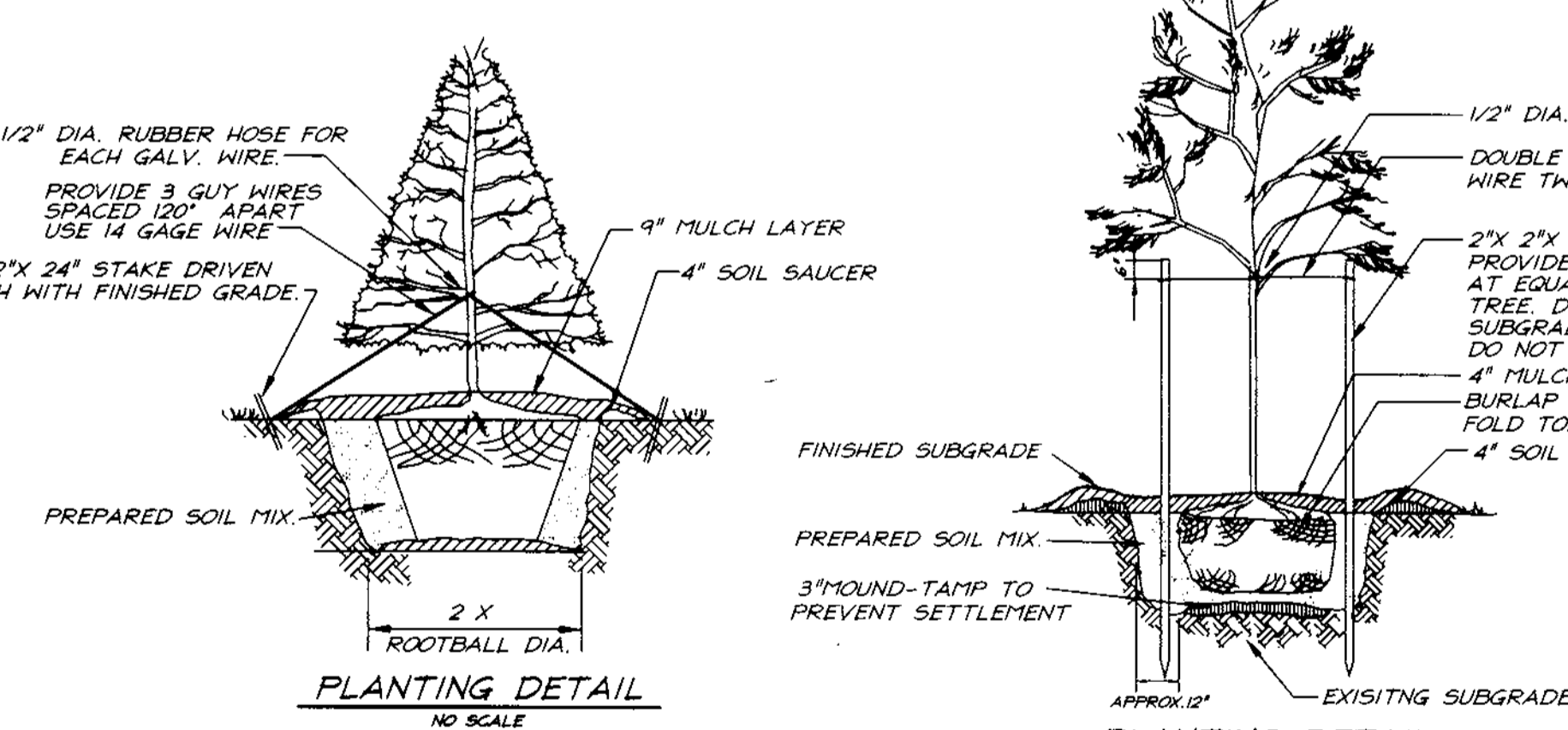
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LANDSCAPE TYPE B	LOT 9
LINEAR FEET OF ROADWAY FRONTAGE/PERIMETER	123.68 LF
NUMBER OF PLANTS REQUIRED	
SHADE TREES	2
EVERGREEN TREES	3
NUMBER OF PLANTS PROVIDED	
SHADE TREES	2
EVERGREEN TREES	3

PLANT SCHEDULE				
KEY	PLANT NAME	SIZE	QUAN.	REMARKS
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REVISIONS	
No.	Date
2	10-28-99
1	6-8-99
1/3	

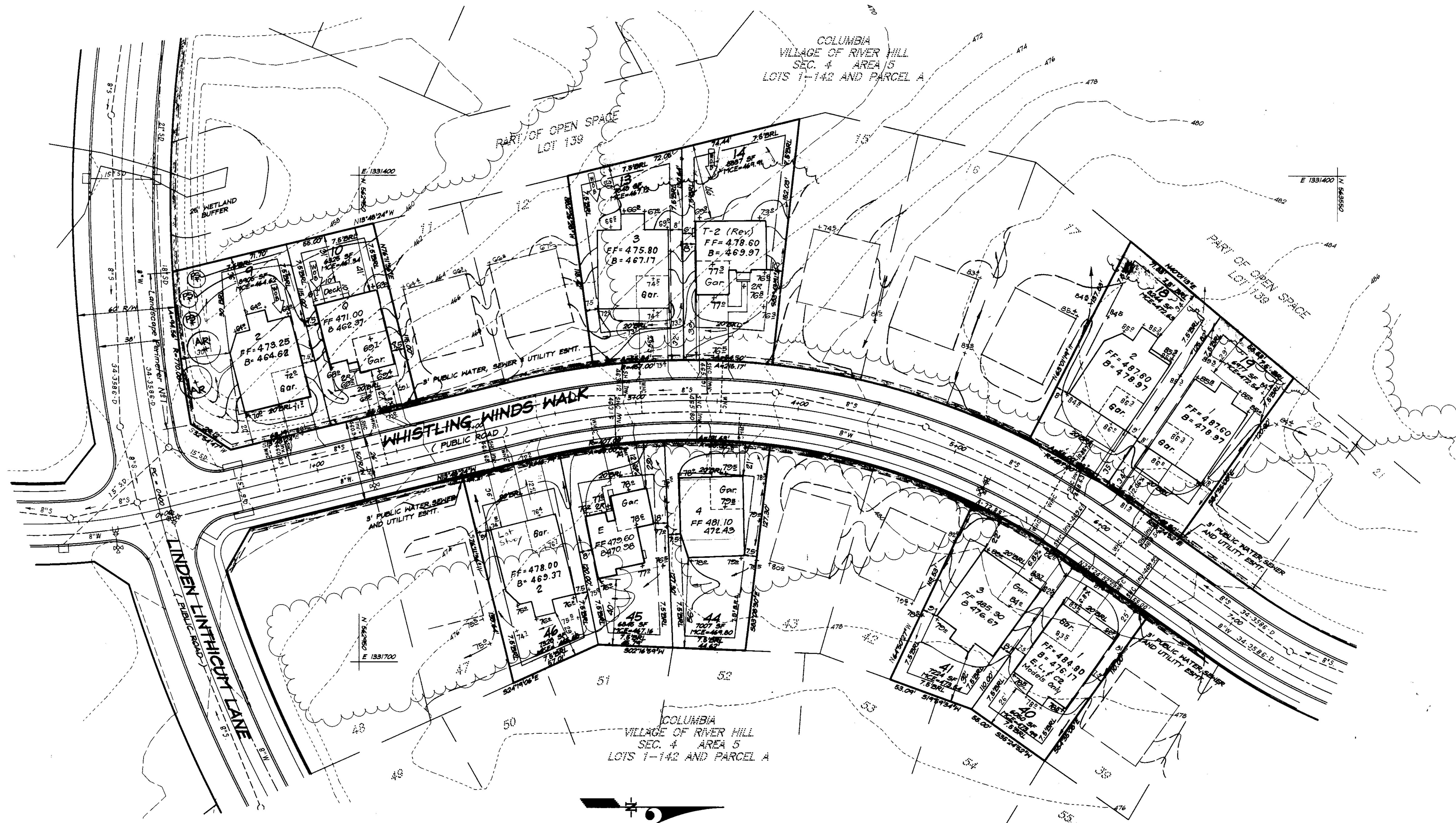
DEVELOPER'S/BUILDERS CERTIFICATE
 I/We certify that the landscaping shown on this plan will be done according to plan, section 16.124 of the Howard County Code and the Howard County Landscape Manual. I/We further certify that upon completion a Certificate of Landscape Installation, accompanied by an executed one year guarantee of plant materials, will be submitted to the Department of Planning and Zoning.
 P.W. KUNKLE
 2-16-99
 Date

OWNER / DEVELOPER
 THE HOWARD RESEARCH AND DEVELOPMENT CORP.
 10275 LITTLE PATUXENT PARKWAY
 COLUMBIA, MARYLAND 21044



SPECIAL NOTES:
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SUBDIVISION NAME	COLUMBIA VILLAGE OF RIVER HILL	SECTION/AREA	4/5	LOTS/PARCELS	9, 10, 13, 14, 18, 19, 40, 41 & 44-46
PLAT NO.	12855	BLOCK NO.	1	ZONE	NTSFLD
WATER CODE	1-12	SEWER CODE	6652500	TAX MAP NO.	35
DESIGNED	DM	DRAWN	BH	CHECKED	
DATE	2/4/99	FOR:	PATRIOT HOMES P.O. BOX 1018 Columbia, Maryland 21044	SCALE	1" = 30'
				DRAWING	1 of 4
				JOB NO.	99-002
				FILE NO.	99-002-X



COLUMBIA
VILLAGE OF RIVER HILL
SEC. 4 AREA 5
LOTS 1-142 AND PARCEL A

COLUMBIA
VILLAGE OF RIVER HILL
SEC. 4 AREA 5
LOTS 1-142 AND PARCEL A

OWNER / DEVELOPER
THE HOWARD RESEARCH AND DEVELOPMENT CORP.
10275 LITTLE PATUXENT PARKWAY
COLUMBIA, MARYLAND 21044

CLARK • FINEFROCK & SACKETT, INC. ENGINEERS • PLANNERS • SURVEYORS 7135 MINSTREL WAY • COLUMBIA, MD 21045 • (410) 381-7500 BALT. • (301) 621-8100 WASH.			
DESIGNED	D.M.	SITE DEVELOPMENT PLAN	SCALE
DRAWN	J.R.	LOTS 9, 10, 13, 14, 18, 19, 40, 41 & 44-46	1" = 30'
CHECKED	J.M.E.	COLUMBIA	DRAWING
DATE	2-10-99	VILLAGE OF RIVER HILL	2 OF 4
		SECTION 4 AREA 5	JOB NO.
		FIFTH (5th) ELECTION DISTRICT	99-002
		HOWARD COUNTY, MARYLAND	FILE NO.
		FOR: PATRIOT HOMES	99-002 X
		P.O. BOX 1018	
		Columbia, Maryland 21044	

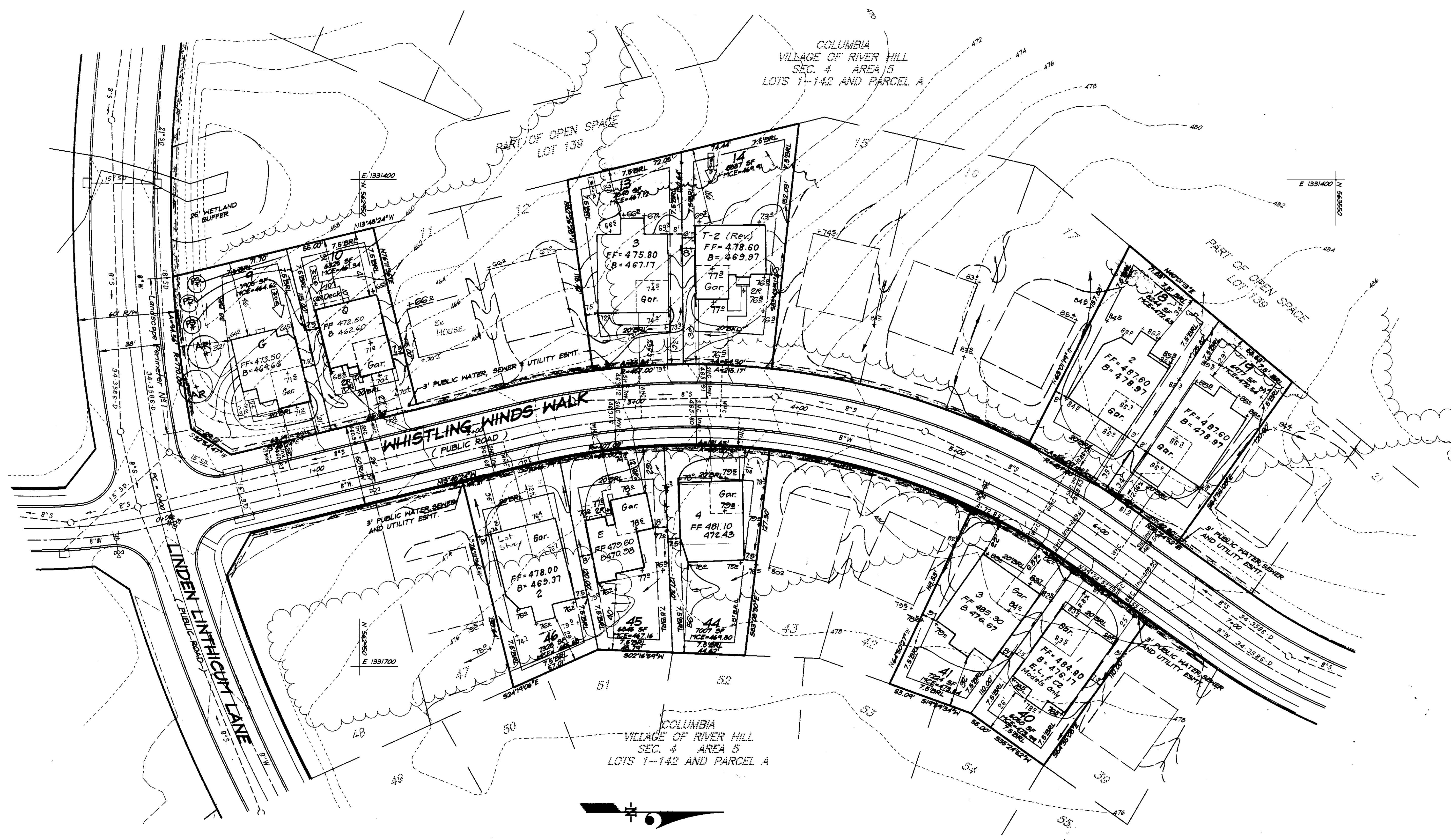


APPROVED: DEPARTMENT OF PLANNING & ZONING

CHIEF, DEVELOPMENT ENGINEERING DIVISION
Conita Hamlin
 DATE: 4/13/99

CHIEF, DIVISION OF LAND DEVELOPMENT
David S. Sackett
 DATE: 4/14/99

NO	REVISIONS	Date
2	Rev. hse. & grd. lot 14	6-16-99
1	Rev. hse. & grd. lot 10	6-9-99

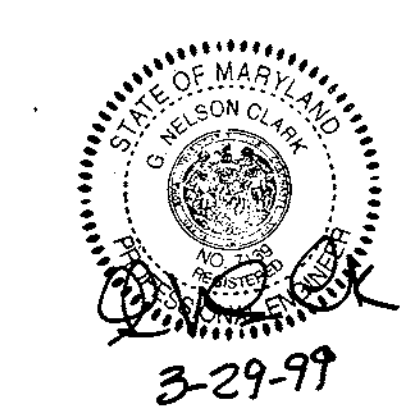


COLUMBIA
VILLAGE OF RIVER HILL
SEC. 4 AREA 5
LOTS 1-142 AND PARCEL A

COLUMBIA
VILLAGE OF RIVER HILL
SEC. 4 AREA 5
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APPROVED: DEPARTMENT OF PLANNING & ZONING
 Chief, Development Engineering Division
Wanda Hamilton
 Chief, Division of Land Development
Ray S. Sackett
 Director

NO	REVISIONS	Date
4	Rev. grd. lot 10 to show As-Built-Conditions	10-29-90
3	Rev. Hse. 5 Grd. lot 9	10-28-99
2	Rev. hse. 6 and lot 14	6-16-90
1	Rev. hse. 2 and lot 10	6-8-88

DESIGNED	D.M.	SCALE	1" = 30'
DRAWN	J.R. <td colspan="2">SITE DEVELOPMENT PLAN</td>	SITE DEVELOPMENT PLAN	
CHECKED	J.H.E. <td colspan="2">LOTS 9, 10, 13, 14, 18, 19, 40, 41 & 44-46</td>	LOTS 9, 10, 13, 14, 18, 19, 40, 41 & 44-46	
DATE	2-10-99 <td colspan="2">COLUMBIA VILLAGE OF RIVER HILL</td>	COLUMBIA VILLAGE OF RIVER HILL	
	<td colspan="2">SECTION 4 AREA 5</td>	SECTION 4 AREA 5	
	<td colspan="2">FIFTH (5th) ELECTION DISTRICT</td>	FIFTH (5th) ELECTION DISTRICT	
	<td colspan="2">HOWARD COUNTY, MARYLAND</td>	HOWARD COUNTY, MARYLAND	
	<td>JOB NO.</td> <td>99-002</td>	JOB NO.	99-002
	<td>FILE NO.</td> <td>99-002</td>	FILE NO.	99-002