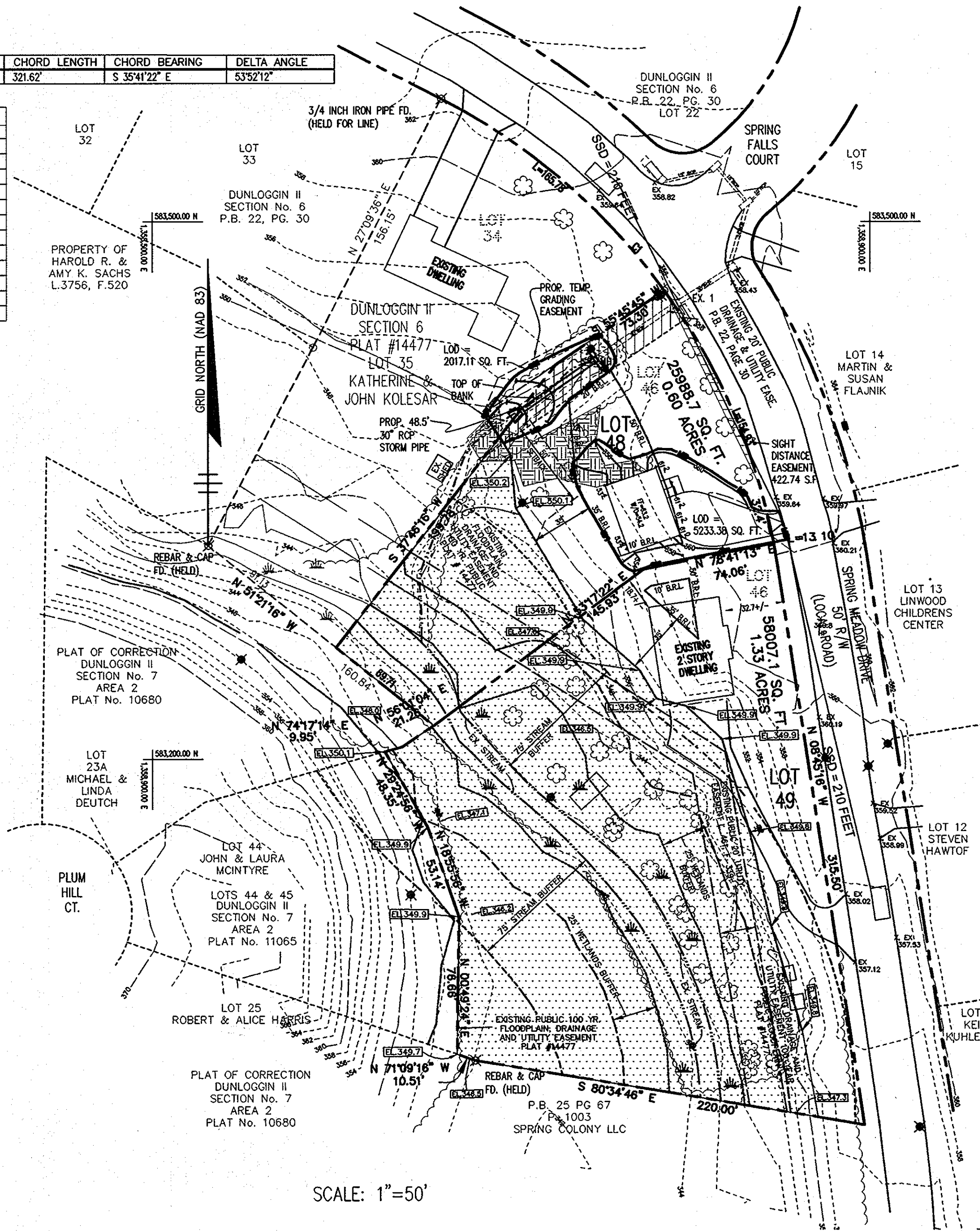
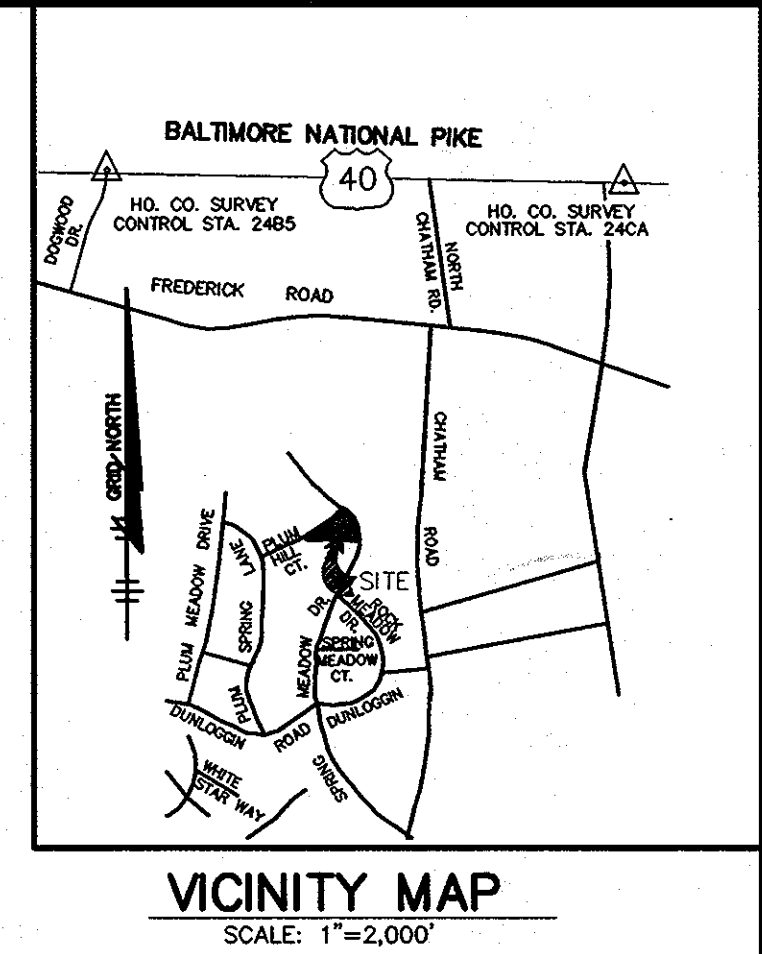


CURVE	RADIUS	ARC LENGTH	CHORD LENGTH	CHORD BEARING	DELTA ANGLE
C1	355.00'	333.77'	321.62'	S 35°41'22" E	53°52'12"

NO.	NORTH	EAST
1	583458.07	1358781.53
2	583304.03	1358844.68
3	582992.20	1358892.70
4	583028.17	1358875.47
5	583031.57	1358865.53
6	583108.22	1358866.63
7	583158.48	1358849.39
8	583200.80	1358825.64
9	583203.29	1358835.22
10	583215.18	1358832.85
11	583258.71	1358838.40
12	583416.83	1358720.93

NO.	BEARING	DIST.
A	S 64°17'48" E	78.01'
B	S 56°10'02" E	27.01'
C	S 30°50'43" E	24.21'
D	S 05°08'51" E	29.49'
E	S 30°52'38" E	72.65'
F	S 47°53'33" E	43.16'
G	S 30°33'01" E	18.16'
H	S 76°24'37" E	16.60'
I	S 47°38'47" E	27.52'
J	S 16°31'14" E	54.21'
K	S 12°45'23" E	54.16'
L	S 16°16'28" E	60.71'
M	S 10°26'10" E	48.90'

NO.	BEARING	DIST.	NO.	BEARING	DIST.
01	S 10°00'53" W	10.10'	23	S 23°30'56" E	18.11'
02	N 89°58'21" E	3.18'	24	S 20°20'15" E	24.86'
03	N 38°44'47" E	13.28'	25	S 26°30'44" E	19.07'
04	N 61°48'52" E	5.71'	26	S 13°48'03" E	28.89'
05	S 07°39'58" E	16.00'	27	S 19°00'02" E	21.50'
06	N 54°30'03" E	3.31'	28	S 08°04'30" E	13.28'
07	S 67°46'55" E	33.21'	29	S 17°30'19" E	20.45'
08	N 54°56'26" E	11.89'	30	S 06°26'56" E	12.82'
09	S 78°56'34" E	4.20'	31	S 02°52'08" W	23.49'
10	S 24°33'01" E	9.65'	32	N 13°44'06" W	21.00'
11	S 05°38'19" E	11.87'	33	N 16°53'33" W	23.18'
12	S 23°09'43" E	17.70'	34	N 28°30'12" W	16.88'
13	S 80°2'41" E	38.85'	35	S 32°20'53" W	16.55'
14	S 35°57'15" E	21.98'	36	N 24°21'33" W	17.24'
15	S 02°17'40" E	19.17'	37	N 47°07'28" W	22.26'
16	N 72°51'48" E	44.20'	38	N 62°03'31" W	19.50'
17	S 44°58'44" E	21.64'	39	N 41°15'41" W	21.34'
18	S 28°15'28" E	27.74'	40	N 51°01'26" W	22.78'
19	S 07°01'09" E	11.93'	41	N 66°31'54" W	15.83'
20	S 37°43'42" E	29.07'	42	N 04°36'20" W	16.43'
21	S 55°29'47" E	10.52'	43	N 40°28'32" W	21.53'
22	S 78°44'16" E	13.17'			



NO AS-BUILT INFORMATION NEEDED ON THIS SHEET

CREDIT SUMMARY:
 EXISTING TREES TO REMAIN AND COUNT TOWARD CREDIT FOR LANDSCAPE REQUIREMENT
 (DECIDUOUS SHADE TREES ACCOUNT FOR 1 PLANT/ EVERGREEN TREES ACCOUNT FOR 0.5 PLANTS)

DESIGNATION	TYPE (ALL IN GOOD CONDITION)	CREDIT

LEGEND

- 15% - 25% SLOPES
- > 25% SLOPES
- PROPOSED SIGHT DISTANCE EASEMENT
- WETLANDS
- FLOODPLAIN

GENERAL NOTES

1. THE SUBJECT PROPERTY IS ZONED R-20 PER THE 2-2-2004 COMPREHENSIVE ZONING PLAN.
2. DRIVEWAYS SHALL BE PROVIDED PRIOR TO ISSUANCE OF A USE AND OCCUPANCY PERMIT FOR ANY NEW DWELLINGS TO INSURE SAFE ACCESS FOR FIRE AND EMERGENCY VEHICLES PER THE FOLLOWING MINIMUM REQUIREMENTS:
 A. WIDTH = 12'
 B. SURFACE = 6" OF COMPACTED CRUSHER RUN BASE W/ TAR AND CHIP COATING (1-1/2" MIN.)
 C. GEOMETRY = MAX 15% GRADE, MAX. 10% GRADE CHANGE AND MIN. 45' TURNING RADIUS
 D. STRUCTURES (CULVERTS/BRIDGES) = CAPABLE OF SUPPORTING 25 GROSS TONS (825 LOADINGS)
 E. DRAINAGE ELEMENTS = CAPABLE OF SAFELY PASSING 100-YEAR FLOOD WITH NO MORE THAN 1-FOOT DEPTH OVER DRIVEWAY SURFACE
 F. MAINTENANCE = SUFFICIENT TO INSURE ALL WEATHER USE
3. NO GRADING, REMOVAL OF VEGETATIVE COVER OR TREES, OR PLACEMENT OF NEW STRUCTURES IS PERMITTED WITHIN THE LIMITS OF WETLANDS, STREAM(S), OR THEIR BUFFERS AND FOREST CONSERVATION EASEMENT AREAS.
4. THIS SUBDIVISION IS SUBJECT TO SECTION 18.122B OF THE HOWARD COUNTY CODE, PUBLIC WATER AND PUBLIC SEWER SERVICE HAS BEEN PROVIDED UNDER CONTRACTS 125-6 AND 442 WAS RESPECTIVELY.
5. PUBLIC WATER AND SEWER ALLOCATION WILL BE GRANTED AT THE TIME OF ISSUANCE OF OF BUILDING PERMIT IF CAPACITY IS AVAILABLE AT THAT TIME.
6. THERE IS AN EXISTING DWELLING(STRUCTURE(S)) LOCATED ON LOT 49 TO REMAIN. NO NEW BUILDINGS, EXTENSIONS OR ADDITIONS TO THE EXISTING DWELLING(S) ARE TO BE CONSTRUCTED AT A DISTANCE LESS THAN THE ZONING REGULATIONS REQUIRE.
7. DEVELOPER RESERVES UNTO ITSELF, ITS SUCCESSORS AND ASSIGNS, ALL EASEMENTS SHOWN ON THIS PLAN FOR WATER, SEWER, STORM DRAINAGE AND OTHER PUBLIC UTILITIES LOCATED IN, OVER AND THROUGH LOT 48 AND 49. ANY AND ALL CONVEYANCES OF AFORESAID LOTS SHALL BE SUBJECT TO THE EASEMENTS HEREIN RESERVED, WHETHER OR NOT EXPRESSLY STATED IN THE DEED(S) CONVEYING SAID LOTS. DEVELOPER SHALL EXECUTE AND DELIVER DEEDS FOR THE EASEMENTS HEREIN RESERVED TO HOWARD COUNTY. UPON COMPLETION OF THE PUBLIC UTILITIES AND THEIR ACCEPTANCE BY HOWARD COUNTY, THE COUNTY SHALL ACCEPT THE EASEMENTS AND RECORD THE DEED(S) OF EASEMENTS IN THE LAND RECORDS OF HOWARD COUNTY.
8. LANDSCAPING FOR LOT 48 IS PROVIDED IN ACCORDANCE WITH A CERTIFIED LANDSCAPE PLAN ON FILE WITH THIS PLAN, IN ACCORDANCE WITH SECTION 16.124 OF THE HOWARD COUNTY CODE AND THE LANDSCAPE MANUAL.
9. SEE "LANDSCAPE PLAN FOREST CONSERVATION WORKSHEET" FOR FOREST CONSERVATION/LANDSCAPING. THIS PLAN COMPLIES WITH THE REQUIREMENTS OF SECTION 16.1200 OF THE HOWARD COUNTY CODE FOR FOREST CONSERVATION. OBLIGATION WAS FULFILLED BY PAYMENT OF A FEE IN LIEU IN THE AMOUNT OF \$2,385.80 FOR 0.11 ACRES OF AFFORESTATION. THERE ARE NO EXISTING FOREST ON THESE LOTS, THEREFORE NO REFORESTATION IS REQUIRED.
10. PER SECTION 5.2.9 OF THE HOWARD COUNTY DESIGN MANUAL, VOLUME III - ROADS AND BRIDGES, THIS RESUBDIVISION DOES NOT FALL WITHIN THE LOCATIONAL GUIDELINES TO REQUIRE A NOISE STUDY.
11. THE 100 YEAR FLOODPLAIN SHOWN ON THIS PLAN WAS PREPARED BY RIEMER MUEGGE & ASSOCIATES, INC. ON OR ABOUT JUNE 2000. THE WETLANDS SHOWN ON THIS PLAN WERE DELINEATED ON OR ABOUT MAY 2000.
12. THE COORDINATES SHOWN HEREON ARE BASED ON NAD 83, MARYLAND COORDINATE SYSTEM AS PROJECTED BY HOWARD COUNTY GEODETIC CONTROL STATIONS NO. 2485 (N 586956.227ft, E 1356570.80ft, ELEV. 390.253) AND 24CA (N 586906.180 ft, E 1361634.29, ELEV. 398.338).
13. B.R.L. DENOTES BUILDING RESTRICTION LINES.
14. ALL AREAS SHOWN ON THIS FINAL PLAN ARE MORE OR LESS.
15. THIS PLAN IS BASED ON A FIELD RUN MONUMENTED BOUNDARY SURVEY PERFORMED ON OR ABOUT MAY 08, 2000 BY RIEMER MUEGGE AND ASSOCIATES, INC. TOPOGRAPHY AND SUPPLEMENTAL BOUNDARY VERIFICATION BY THE RBA GROUP, INC. ON JUNE 28, 2004.
16. PER THE HOWARD COUNTY SUBDIVISION AND LAND DEVELOPMENT REGULATIONS, AMENDED FIFTH EDITION, DATED OCTOBER 2, 2003, SECTION 16.102(6)(1) THIS RESUBDIVISION PLAN IS EXEMPT FROM THE SKETCH AND PRELIMINARY PLAN.
17. STORMWATER MANAGEMENT REQUIREMENTS WILL BE MET AT THE TIME OF SITE DEVELOPMENT PLAN.
18. THIS SUBDIVISION IS TO RECREATE A LOT ORIGINALLY CREATED IN 1993 ON PLAT #11065.
19. WAIVER PETITION WP-05-007, TO THE SUBDIVISION AND LAND DEVELOPMENT REGULATIONS, SECTION 16.1200(b)(xiii), TO ALLOW ENVIRONMENTALLY SENSITIVE FEATURES ON BUILDABLE OTS, UNDER 10 ACRES WAS APPROVED ON JANUARY 25, 2005.
20. THE 20' BRL ON THE NORTH SIDE OF LOT 48 IS CONCORDANT WITH THE EXISTING PUBLIC DRAINAGE AND UTILITY EASEMENT LINE. THE H.C.Z.R. STIPULATE A 10' BRL IN THIS AREA WOULD FALL WITHIN THE EXISTING PUBLIC DRAINAGE AND UTILITY EASEMENT.
21. 50' SETBACK FROM DRAINAGE SWALE IS MEASURED FROM FIELD SURVEY OF THE TOP OF BANK BY THE RBA GROUP, JUNE 2004.
22. THE DISTURBANCE FOR THE EXTENSION OF THE DRAINAGE PIPE IS VIEWED AS ESSENTIAL DISTURBANCE, SINCE THE EXTENSION OF THE PIPE IS REQUIRED BY THE DEVELOPMENT ENGINEERING DIVISION.
23. FINANCIAL SURETY FOR THE REQUIRED LANDSCAPING IN THE AMOUNT OF \$600.00 FOR 2 SHADE TREES HAS BEEN POSTED WITH THE DEVELOPERS AGREEMENT.

DEVELOPER/ BUILDER CERTIFICATE

I / WE CERTIFY THE IMPROVEMENTS SHOWN ON THIS PLAN WILL BE DONE ACCORDING TO THE PLAN AND SECTION 16 OF THE HOWARD COUNTY CODE.

[Signature]
 NAME(S)
 9/14/05
 DATE

AREA TABULATION

1. TOTAL NUMBER OF LOTS TO BE RECORDED	= 2
- BUILDABLE	= 2
- NON-BUILDABLE	= 0
- OPEN SPACE	= 0
- PRESERVATION PARCELS	= 0
2. TOTAL AREA OF LOTS	= 1.92 AC.
- BUILDABLE (LOT 48/49)	= (0.27/0.37 AC.) = 0.64 AC.
- NON-BUILDABLE (LOT 48/49)	= (1.04/0.24 AC.) = 1.28 AC.
- OPEN SPACE	= 0
- PRESERVATION PARCELS	= 0
3. TOTAL AREA OF ROADWAY TO BE RECORDED INCL. WIDENING STRIPS	= 0
4. TOTAL AREA OF SUBDIVISION TO BE RECORDED	= 1.92 AC.

APPROVED: DEPARTMENT OF PUBLIC WORKS

[Signature] 9-26-05
 CHIEF, BUREAU OF HIGHWAYS
 DATE

APPROVED: DEPARTMENT OF PLANNING AND ZONING

[Signature] 10/18/05
 CHIEF, DIVISION OF LAND DEVELOPMENT
 DATE

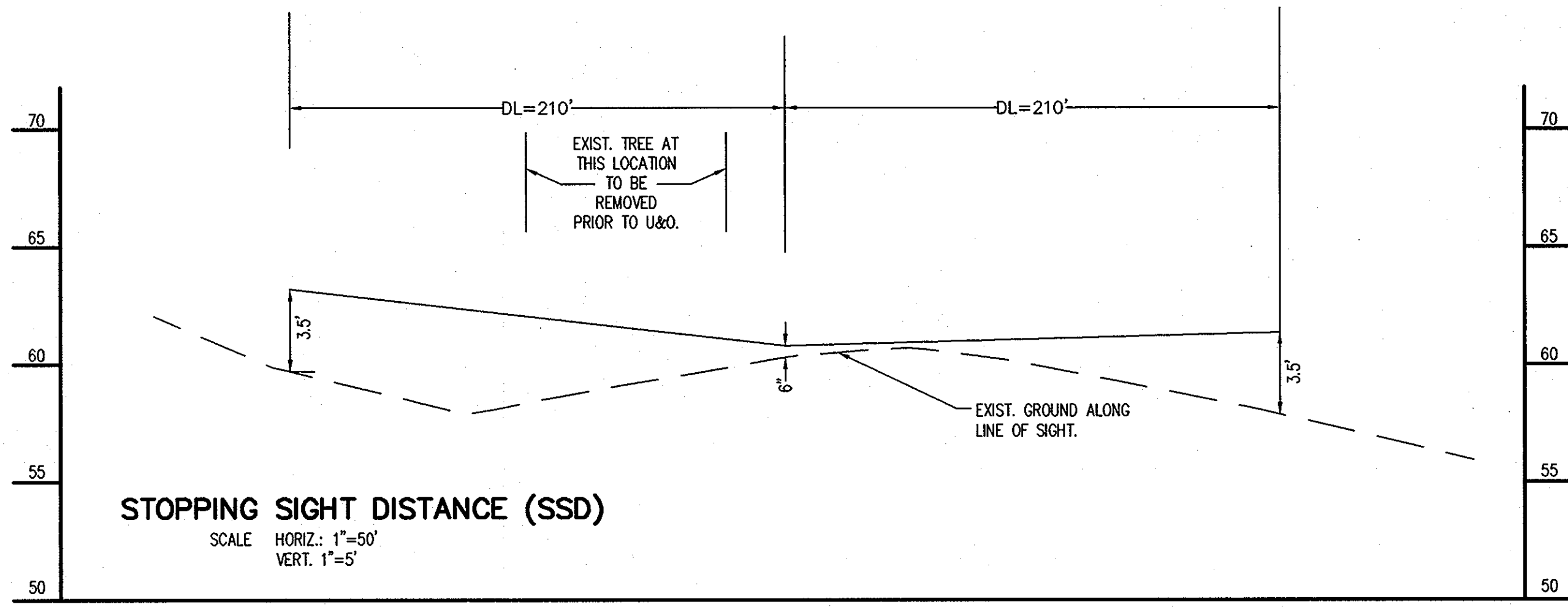
OWNER / DEVELOPER

JAMES W. BIMSTEFER
 FLORIE W. BIMSTEFER
 (DECEASED)
 3750 SPRING MEADOW DRIVE
 ELLICOTT CITY, MARYLAND
 21043

**SITE DISTANCE ANALYSIS
 (FOR LOCAL ROAD CLASSIFICATION)**

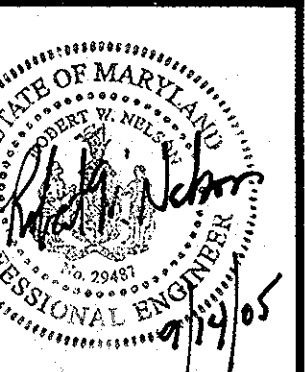
85TH PERCENTILE SPEED, V = 31 MPH
 f = 0.35
 g = -1.7%

STOPPING SIGHT DISTANCE (SSD) =
 SSD = 3.675 V + [V^2 (30(f + g))] = 210 FEET



The RBA ENGINEERS • ARCHITECTS • PLANNERS
 Group, Inc.
 7164 Columbia Gateway Drive Suite 205
 Columbia, Maryland 21046 (410) 312-0966

RBA PROJ. NO.	M3334.00
DRAWN BY:	BBWZ
DESIGNED BY:	WZ
CHECKED BY:	RWN



**DUNLOGGIN II, SECTION 7, AREA 2
 LOTS 48 & 49**

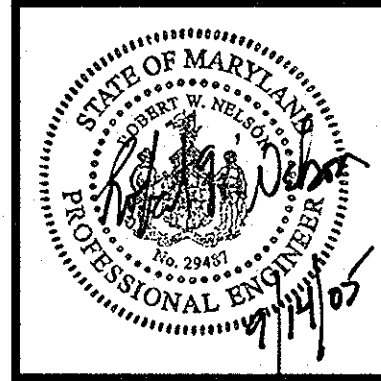
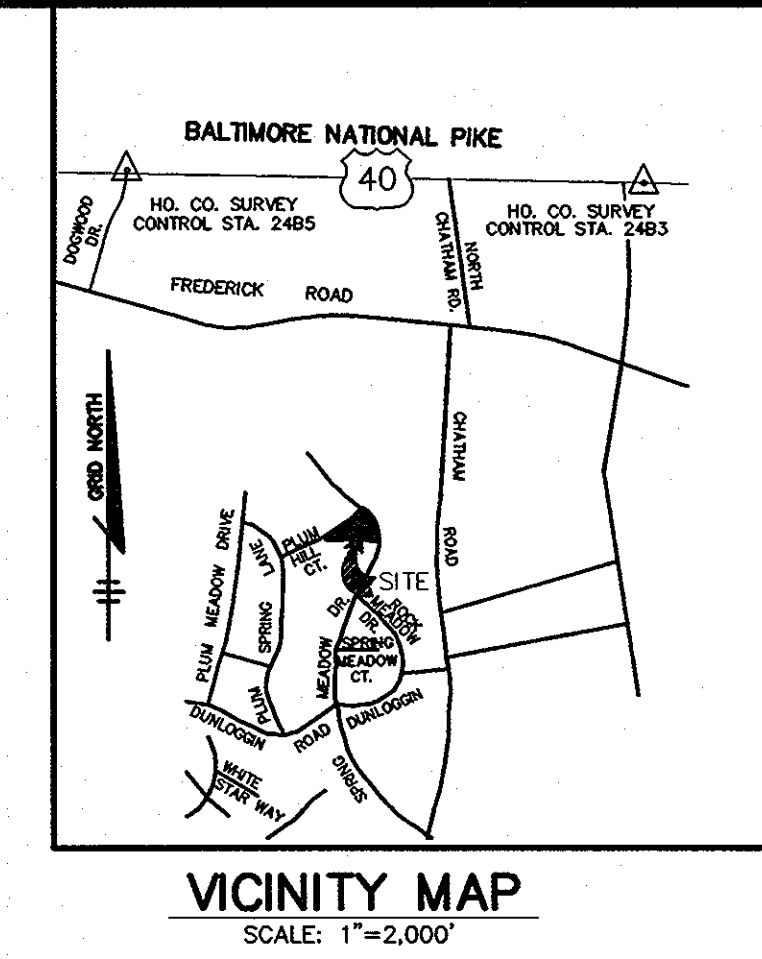
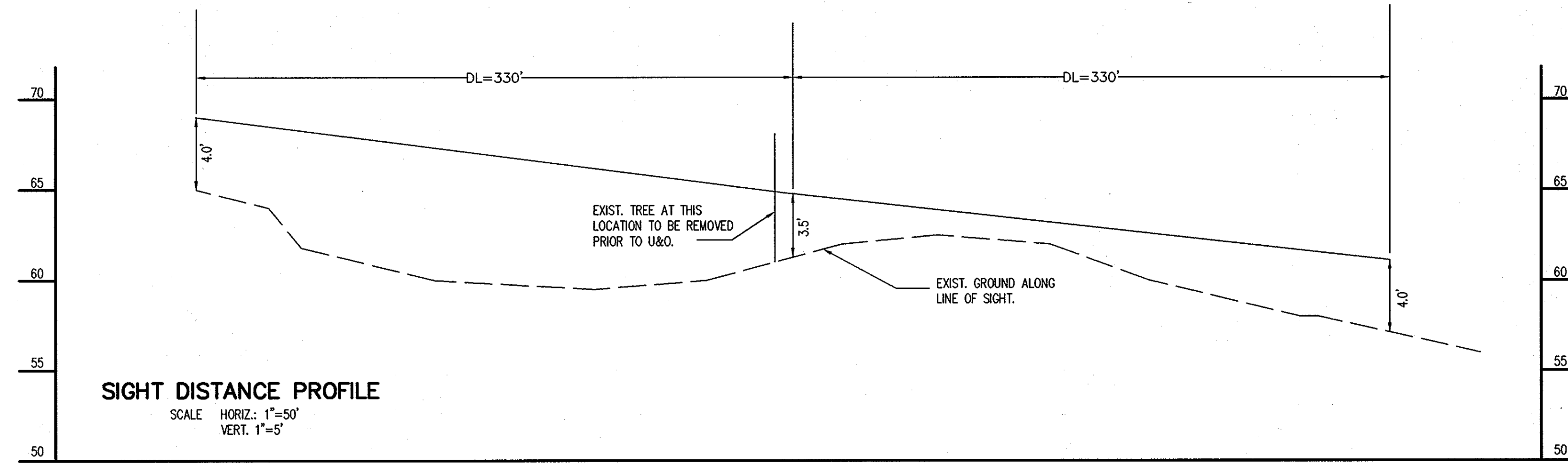
TAX MAP 24, GRID 10, PARCEL 1108, ELECTION DISTRICT 2, ZONING R-20

Revision	Date	Project Date	Edition Date

SHEET NO.
SUPPL-1
 1 of 5

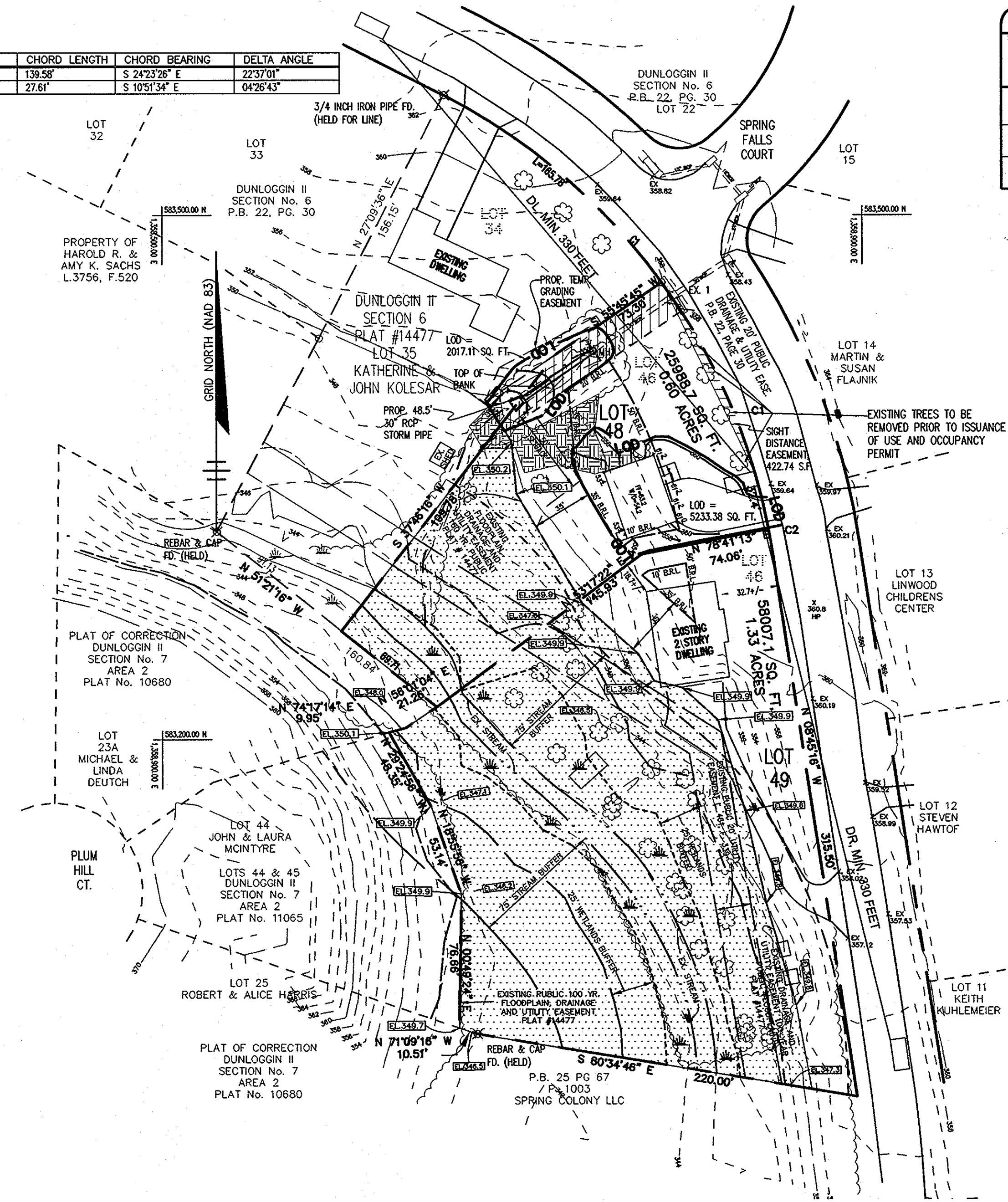
SITE DISTANCE ANALYSIS

Category	DL (FEET)	DR (FEET)
OPERATING SPEED = 30 MPH		
CROSS	270	310
LEFT TURN	330	330
RIGHT TURN	300	-
ADJUSTMENT FACTOR = 1.0		
CROSS	270	310
LEFT TURN	330	330
RIGHT TURN	300	-



CURVE TABLE

CURVE	RADIUS	ARC LENGTH	CHORD LENGTH	CHORD BEARING	DELTA ANGLE
C1	355.00'	140.49'	139.58'	S 24°23'28" E	22°37'01"
C2	355.00'	27.62'	27.61'	S 10°51'34" E	04°28'43"



STRUCTURE SCHEDULE									
NUMBER	TYPE	LOCATION		TOP OF CURB ELEVATION		INVERTS		SIZE	REMARKS
		STATION	OFFSET	UPPER	LOWER	IN	OUT		
EX. 1	CURB INLET	SEE PLAN/PROFILE		358.4	357.9	----	352.54	L = 24'	EX. CURB INLET
MH1	MANHOLE - MSHA	SEE PLAN/PROFILE		NA	NA	348.29	347.02	D = 5'	TOP ELEV. = 353.15
ST1	END SECTION	SEE PLAN/PROFILE		NA	NA	NA	346.54	NA	STD. MD 368.01

- NOTES:
- ALL STRUCTURES ARE MARYLAND STATE HIGHWAY STANDARDS UNLESS NOTED OTHERWISE.
 - ALL TOP ELEVATIONS FOR CURB INLETS ARE TO TOP OF CURB. ALL GRATE ELEVATIONS FOR YARD INLETS ARE TO TOP OF GRATE.
 - ALL STRUCTURES ARE DIMENSIONED FROM FACE OF STRUCTURE AT MID POINT OF STRUCTURE ALONG THE FACE OF CURB INLETS, AND TO CENTER OF STRUCTURE FOR YARD INLETS AND MANHOLES.

SEQUENCE OF CONSTRUCTION

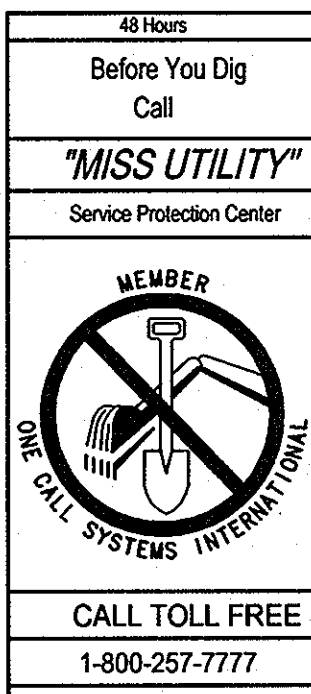
1. SETUP PRE-CONSTRUCTION MEETING 48 HOURS IN ADVANCE OF START OF CONSTRUCTION.	1 DAY
2. PLACE SEDIMENT AND EROSION CONTROL MEASURES REQUIRED BY HOWARD COUNTY INSPECTOR.	1 DAY
3. REMOVE ENDWALL SECTION. PLACE NEW MANHOLE AT OLD ENDWALL LOCATION.	1 DAY
4. PLACE NEW 30" DIAMETER PIPE IN OLD SWALE LOCATION.	1 DAY
5. PLACE NEW END SECTION AT THE END OF PIPE SECTION AND PLACE RIP RAP CHANNEL LINING.	1 DAY
6. GRADE EX. SWALE FROM END SECTION AT APPROX. 3.5% SLOPE.	1 DAY
7. PLACE NEW FILL OVER EXISTING PIPE TO FINAL GRADE. STABILIZE IMMEDIATELY.	1 DAY
8. PLACE SOD OVER DISTURBED AREAS WITHIN 7 DAYS OF STABILIZATION.	1 WEEK
TOTAL	2 WEEKS

NO AS-BUILT INFORMATION NEEDED ON THIS SHEET

DEVELOPER/ BUILDER CERTIFICATE

I / WE CERTIFY THAT THE IMPROVEMENTS SHOWN ON THIS PLAN WILL BE DONE ACCORDING TO THE PLAN AND SECTION 16 OF THE HOWARD COUNTY CODE.

[Signature] 9/14/05
NAME(S) DATE



APPROVED: DEPARTMENT OF PUBLIC WORKS
[Signature] 9-26-05
 CHIEF, BUREAU OF HIGHWAYS DATE

APPROVED: DEPARTMENT OF PLANNING AND ZONING
[Signature] 10/10/05
 CHIEF, DIVISION OF LAND-DEVELOPMENT DATE

APPROVED: DEPARTMENT OF PLANNING AND ZONING
[Signature] 10/10/05
 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

OWNER / DEVELOPER
 JAMES W. BIMESTEFER
 FLORIE W. BIMESTEFER (DECEASED)
 3750 SPRING MEADOW DRIVE
 ELLICOTT CITY, MARYLAND 21043

The RBA Group, Inc. ENGINEERS • ARCHITECTS • PLANNERS
 7164 Columbia Gateway Drive Suite 205
 Columbia, Maryland 21046 (410) 312-0966

RBA PROJ. NO.: M3534.00
 DRAWN BY: BBWZ
 DESIGNED BY: WZ
 CHECKED BY: RWN

**DUNLOGGIN II, SECTION 7, AREA 2
 LOTS 48 & 49**

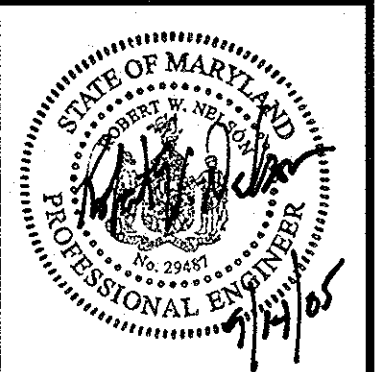
TAX MAP 24, GRID 10, PARCEL 1108, ELECTION DISTRICT 2, ZONING R-20

Supplement to Final Plan F-05-009
 SIGHT DISTANCE ANALYSIS

Revision # _____
 Date _____

SHEET NO. SUPPL-2
 2 of 5

F-05-009

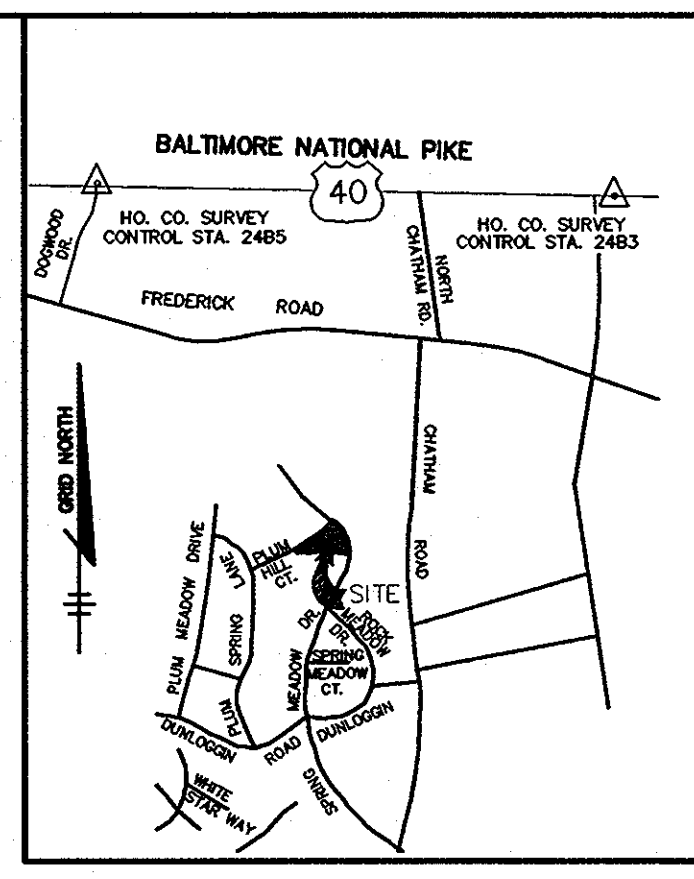


DUNLOGGIN II, SECTION 7, AREA 2
LOTS 48 & 49

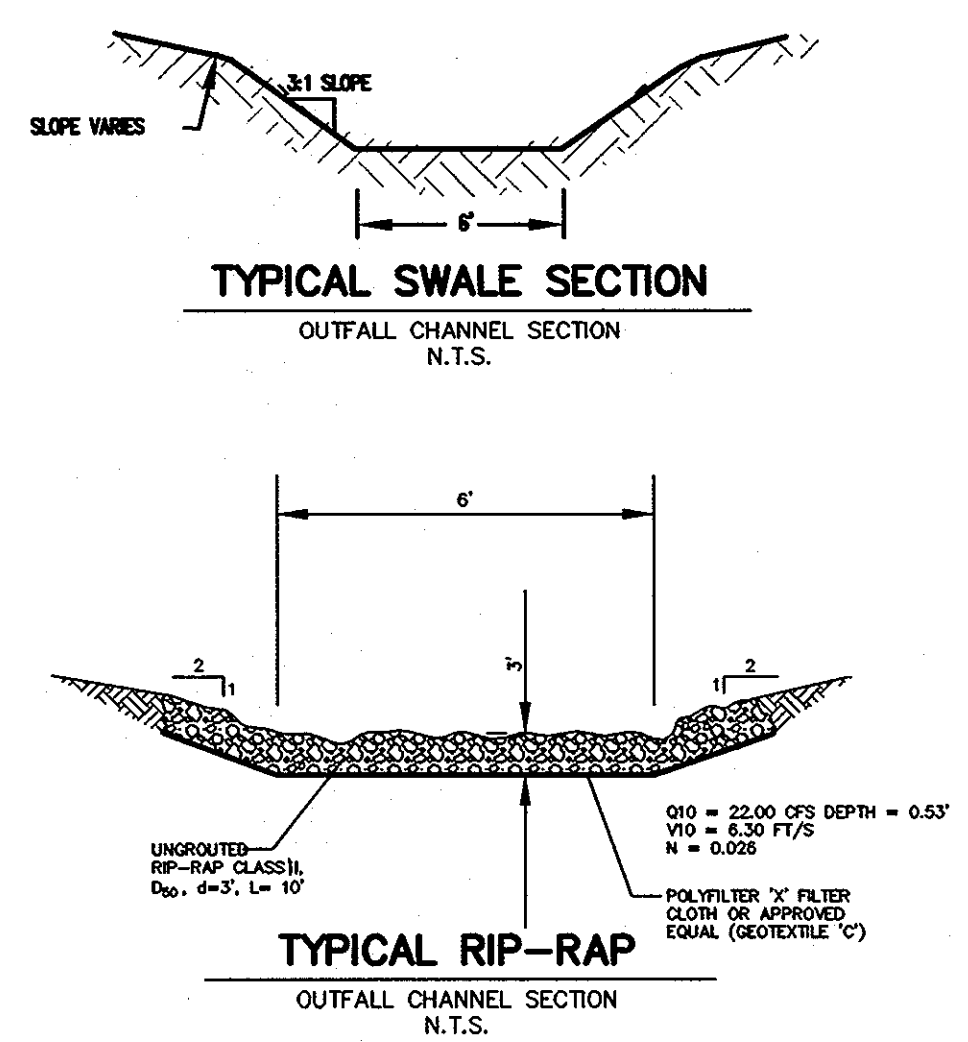
TAX MAP 24, GRID 10, PARCEL 1108, ELECTION DISTRICT 2, ZONING R-20

Sheet Title: SUPPLEMENT TO FINAL PLAN F-05-009 - ROAD CONSTRUCTION DRAWING - STORM DRAIN EXTENSION

Revision	
Date	
Project Date	
Edition Date	



- LEGEND**
- Tree to be saved
 - Tree to be removed
 - Tree to be planted
 - 100-YR FLOODPLAIN
 - STREAM
 - 25' STREAM BUFFER
 - WETLAND LIMIT
 - 25' WETLAND BUFFER
 - 15% - 25% SLOPES
 - > 25% SLOPES



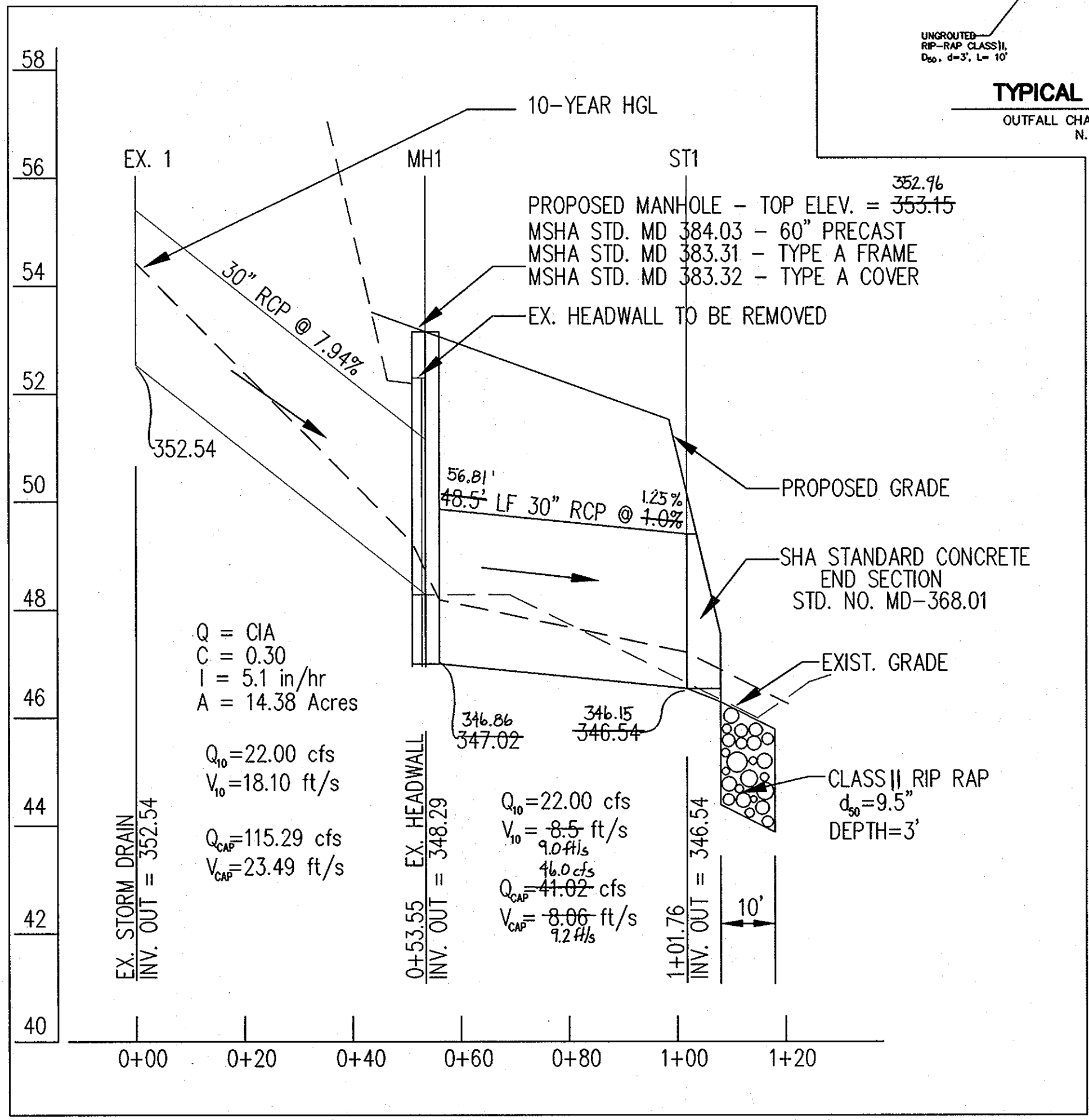
CONCRETE END SECTION

NOTE: 1. CONCRETE HAS OPTION OF FORMING END SECTIONS CONFORMING TO DETAILS ON THIS SHEET OR END SECTIONS CONFORMING TO DETAILS ON STANDARD MD-368.1. 2. END SECTIONS MUST BE REINFORCED TO CONFORM WITH CLASS IV PIPE. 3. CONCRETE FOOTER SHALL BE USED WHEN SPECIFIED ON THE PLAN. COST OF CONCRETE FOOTER TO BE INCLUDED IN PRICE OF END SECTION CONCRETE TO BE INC. IN ALL REINFORCEMENT TO BE INC. IN 3 BARS.

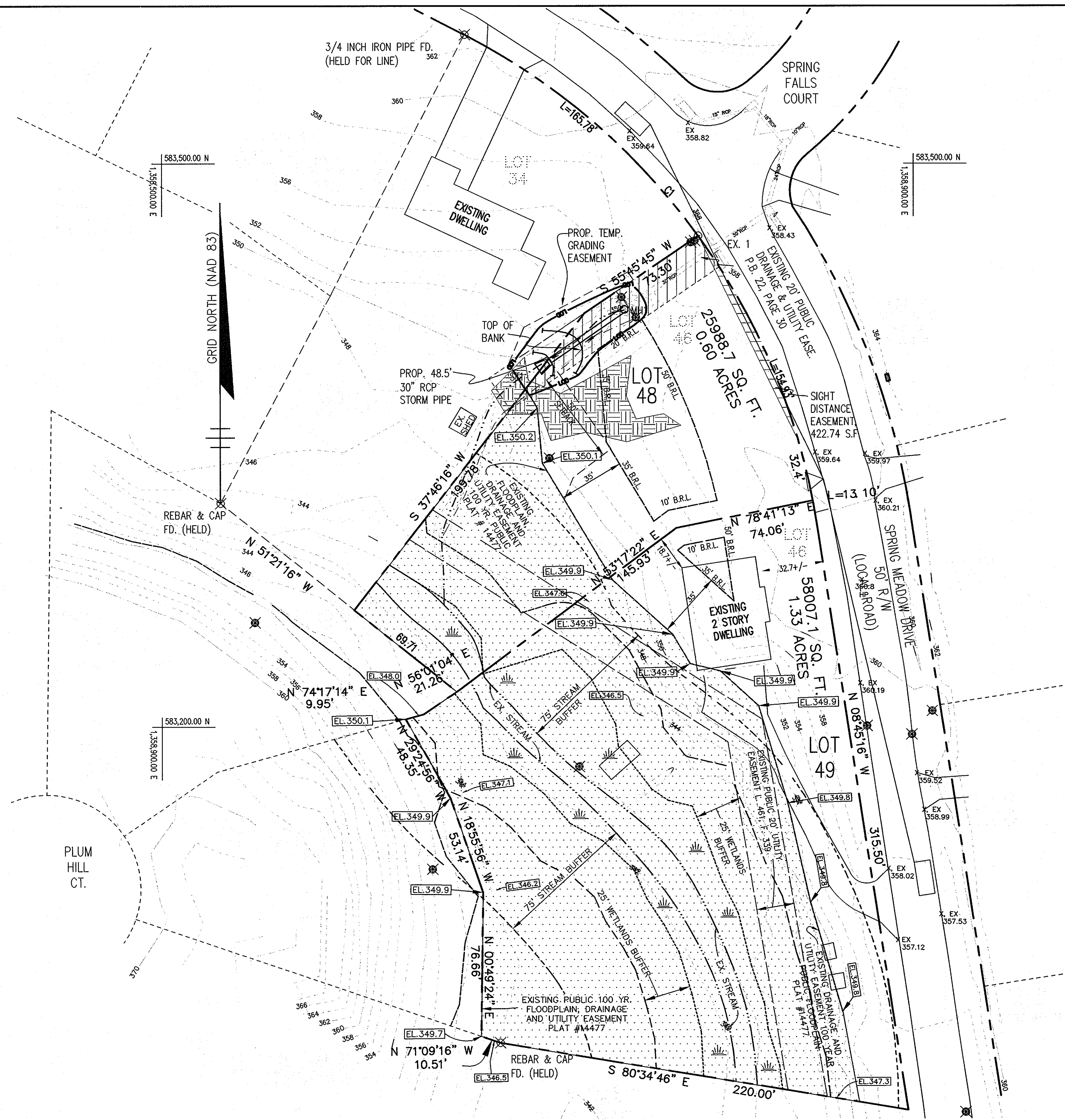
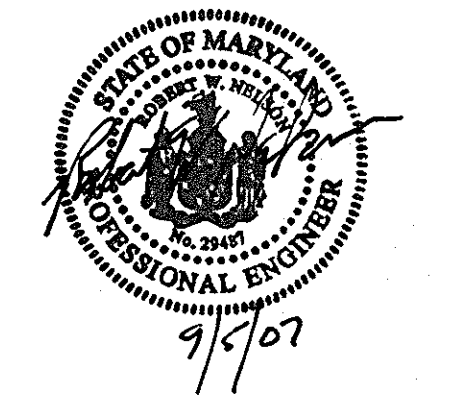
APPROVAL: [Signature] DATE: 9-23-05

Maryland Department of Transportation
STATE HIGHWAY ADMINISTRATION
STANDARDS FOR HIGHWAYS AND HIGHWAY STRUCTURES
STANDARD CONCRETE END SECTION
ROUND CONCRETE PIPE
STANDARD NO. MD-368.01

DIMENSIONS		QUANTITIES	
CONCRETE END SECTION	CONCRETE FOOTER	CONCRETE END SECTION	CONCRETE FOOTER
24" DIA.	24" DIA.	0.08	0.08
30" DIA.	30" DIA.	0.10	0.10
36" DIA.	36" DIA.	0.11	0.11
42" DIA.	42" DIA.	0.12	0.12
48" DIA.	48" DIA.	0.13	0.13
54" DIA.	54" DIA.	0.14	0.14
60" DIA.	60" DIA.	0.15	0.15
66" DIA.	66" DIA.	0.16	0.16
72" DIA.	72" DIA.	0.17	0.17
78" DIA.	78" DIA.	0.18	0.18
84" DIA.	84" DIA.	0.19	0.19
90" DIA.	90" DIA.	0.20	0.20
96" DIA.	96" DIA.	0.21	0.21
102" DIA.	102" DIA.	0.22	0.22
108" DIA.	108" DIA.	0.23	0.23
114" DIA.	114" DIA.	0.24	0.24
120" DIA.	120" DIA.	0.25	0.25



AS-BUILT FOR STORM DRAIN EXTENSION



APPROVED: DEPARTMENT OF PUBLIC WORKS

William E. ... 9-26-05
CHIEF, BUREAU OF HIGHWAYS

APPROVED: DEPARTMENT OF PLANNING AND ZONING

Andy ... 10/18/05
CHIEF, DIVISION OF LAND DEVELOPMENT

... 10/18/05
CHIEF, DEVELOPMENT ENGINEERING DIVISION

OWNER / DEVELOPER

JAMES W. BIMESTEFER
FLORIE W. BIMESTEFER (DECEASED)
3750 SPRING MEADOW DRIVE
ELLCOTT CITY, MARYLAND 21043

DEVELOPER/ BUILDER CERTIFICATE

I / WE CERTIFY THE IMPROVEMENTS SHOWN ON THIS PLAN WILL BE DONE ACCORDING TO THE PLAN AND SECTION 16 OF THE HOWARD COUNTY CODE.

[Signature] 9/14/05
NAME(S) DATE

THIS PLAN IS FOR STORM DRAIN EXTENSION ONLY

RBA ENGINEERS • ARCHITECTS • PLANNERS

7164 Columbia Gateway Drive Suite 205
Columbia, Maryland 21046 (410) 312-0968

RBA PROJ. NO.: M3534.00
DRAWN BY: BBWZ
DESIGNED BY: WZ
CHECKED BY: RWN

C:\9534 Spring Meadow\Final Dwg\9534 SUPPL-3.dwg, 9/12/2005 9:48:59 AM, pferreira

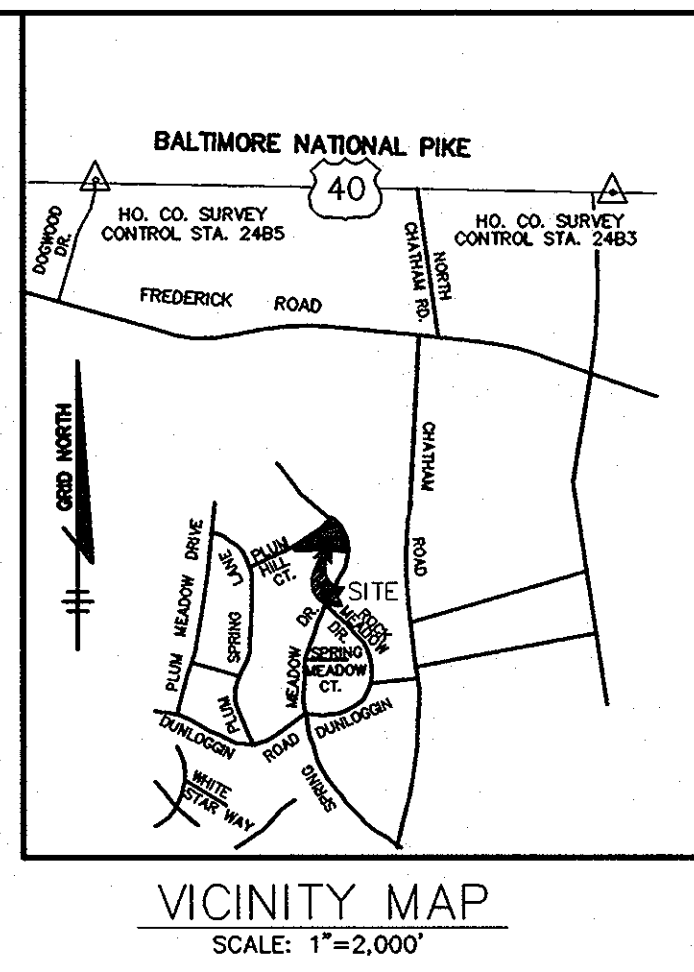


**DUNLOGGIN II, SECTION 7, AREA 2
LOTS 48 & 49**

TAX MAP 24, GRID 10, PARCEL 1108, ELECTION DISTRICT 2, ZONING R-20

Sheet Title: SUPPLEMENT TO FINAL PLAN F-05-009 - ROAD CONSTRUCTION DRAWING - EROSION AND SEDIMENT CONTROL

Revision	
Project Date:	
Edition Date:	
#	Date

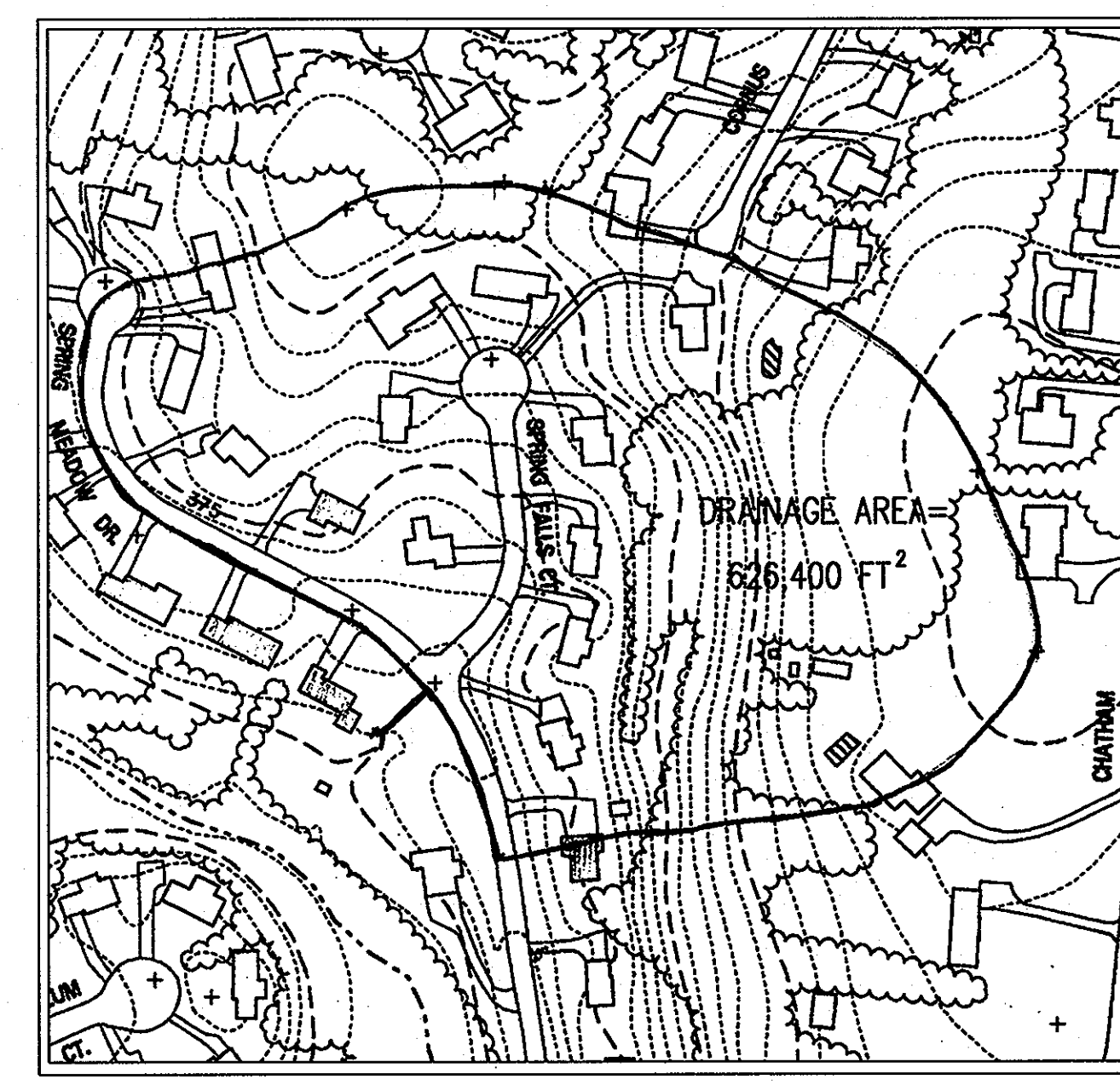


- LEGEND**
- TREE TO BE SAVED
 - TREE TO BE REMOVED
 - TREE TO BE PLANTED
 - 100-YR FLOODPLAIN
 - STREAM
 - 25' STREAM BUFFER
 - WETLAND LIMIT
 - 25' WETLAND BUFFER
 - 15% - 25% SLOPES
 - > 25% SLOPES

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 (313-1855).
- ALL VEGETATIVE AND STRUCTURAL PRACTICES ARE TO BE INSTALLED ACCORDING TO THE PROVISIONS OF THIS PLAN AND ARE TO BE IN CONFORMANCE WITH THE MOST CURRENT "MD STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL", AND REVISIONS HERETO.
- FOLLOWING THE INITIAL SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETE WITHIN: A) SEVEN (7) CALENDAR DAYS FOR ALL PERIMETER SEDIMENT CONTROL STRUCTURES, DIKES, PERIMETER SLOPES AND ALL SLOPES GREATER THAN 3:1, B) 14 DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.
- ALL SEDIMENT TRAPS/BASINS SHOWN MUST BE FENCED AND WARNING SIGNS POSTED AROUND THEIR PERIMETER IN ACCORDANCE WITH VOL. 1, CHAPTER 12, OF THE HOWARD COUNTY DESIGN MANUAL, STORM DRAINAGE.
- ALL DISTURBED AREAS MUST BE STABILIZED WITHIN THE TIME PERIOD SPECIFIED ABOVE IN ACCORDANCE WITH THE MOST CURRENT MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL AND SEDIMENT CONTROL FOR PERMANENT SEEDINGS (SEC. 51), SOD (SEC. 54), TEMPORARY SEEDING (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 THE SITE:	0.61 ACRES
AREA DISTURBED:	0.16 ACRES
AREA TO BE ROOFED OR PAVED:	N/A ACRES
AREA TO BE VEGETATIVELY STABILIZED:	0.45 ACRES
TOTAL CUT:	N/A CU. YDS.
TOTAL FILL:	150 CU. YDS.
OFFSITE WASTE/BORROW AREA LOCATION:	N/A
- ANY SEDIMENT CONTROL PRACTICE WHICH IS DISTURBED BY GRADING ACTIVITY FOR PLACEMENT OF UTILITIES MUST BE REPAIRED ON THE SAME DAY OF DISTURBANCE.
- ADDITIONAL SEDIMENT CONTROLS MUST BE PROVIDED IF DEEMED NECESSARY BY THE HOWARD COUNTY DEPT. OF PUBLIC WORKS SEDIMENT CONTROL INSPECTOR.
- ON ALL SITES, 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 CAN BE BACKFILLED AND STABILIZED WITHIN ONE WORKING DAY, WHICHEVER IS SHORTER.
- WITH THE APPROVAL OF THE SEDIMENT CONTROL INSPECTOR, MINOR FIELD ADJUSTMENTS CAN AND WILL BE MADE TO INSURE THE CONTROL OF ANY SEDIMENT. CHANGES IN THE SEDIMENT CONTROL PRACTICES REQUIRE PRIOR APPROVAL OF THE SEDIMENT CONTROL INSPECTOR AND THE HOWARD COUNTY SOIL CONSERVATION DISTRICT.
- ANY CHANGE TO THE GRADING PROPOSED ON THIS PLAN REQUIRES RE-SUBMISSION TO HOWARD COUNTY SOIL CONSERVATION DISTRICT FOR APPROVAL.
- ANY VARIATION FROM THE SEQUENCE OF OPERATIONS STATED ON THIS PLAN REQUIRES THE APPROVAL OF THE SEDIMENT CONTROL INSPECTOR AND THE HOWARD COUNTY SOIL CONSERVATION DISTRICT PRIOR TO THE INITIATION OF THE CHANGE.
- AT THE END OF EACH WORK DAY ALL SEDIMENT CONTROL PRACTICE WILL BE INSPECTED AND LEFT IN THE OPERATIONAL CONDITION.
- ALL SEDIMENT AND EROSION CONTROL SHALL BE IN ACCORDANCE WITH THE AGREEMENT MADE BETWEEN COLUMBIA ASSOCIATION AND HSCD AND AS AMENDED 8/1/90.
- THE DEVELOPER IS RESPONSIBLE FOR THE ACQUISITION OF ALL EASEMENTS, RIGHTS, AND/OR RIGHTS-OF-WAYS THAT MAY BE REQUIRED FOR THE SEDIMENT AND EROSION CONTROL PRACTICES, STORMWATER MANAGEMENT PRACTICES AND THE DISCHARGE OF STORMWATER ONTO OR ACROSS ADJACENT OR DOWNSTREAM PROPERTIES INCLUDED IN THIS PLAN. HE IS ALSO RESPONSIBLE FOR THE ACQUISITION OF ALL EASEMENTS, RIGHTS AND/OR RIGHTS-OF-WAYS THAT MAY BE REQUIRED FOR GRADING AND/OR WORK ON ADJACENT PROPERTIES INCLUDED IN THIS PLAN.
- THE SEDIMENT CONTROL APPROVALS ON THIS PLAN EXTEND ONLY TO AREAS AND PRACTICES IDENTIFIED AS PROPOSED WORK AND SHALL APPLY AS IF SHOWN ON ALL PLANS.
- THE APPROVAL OF THE PLAN FOR SEDIMENT AND EROSION CONTROL DOES NOT RELIEVE THE COUNTY REQUIREMENTS PERTAINING TO ENVIRONMENTAL ISSUES.



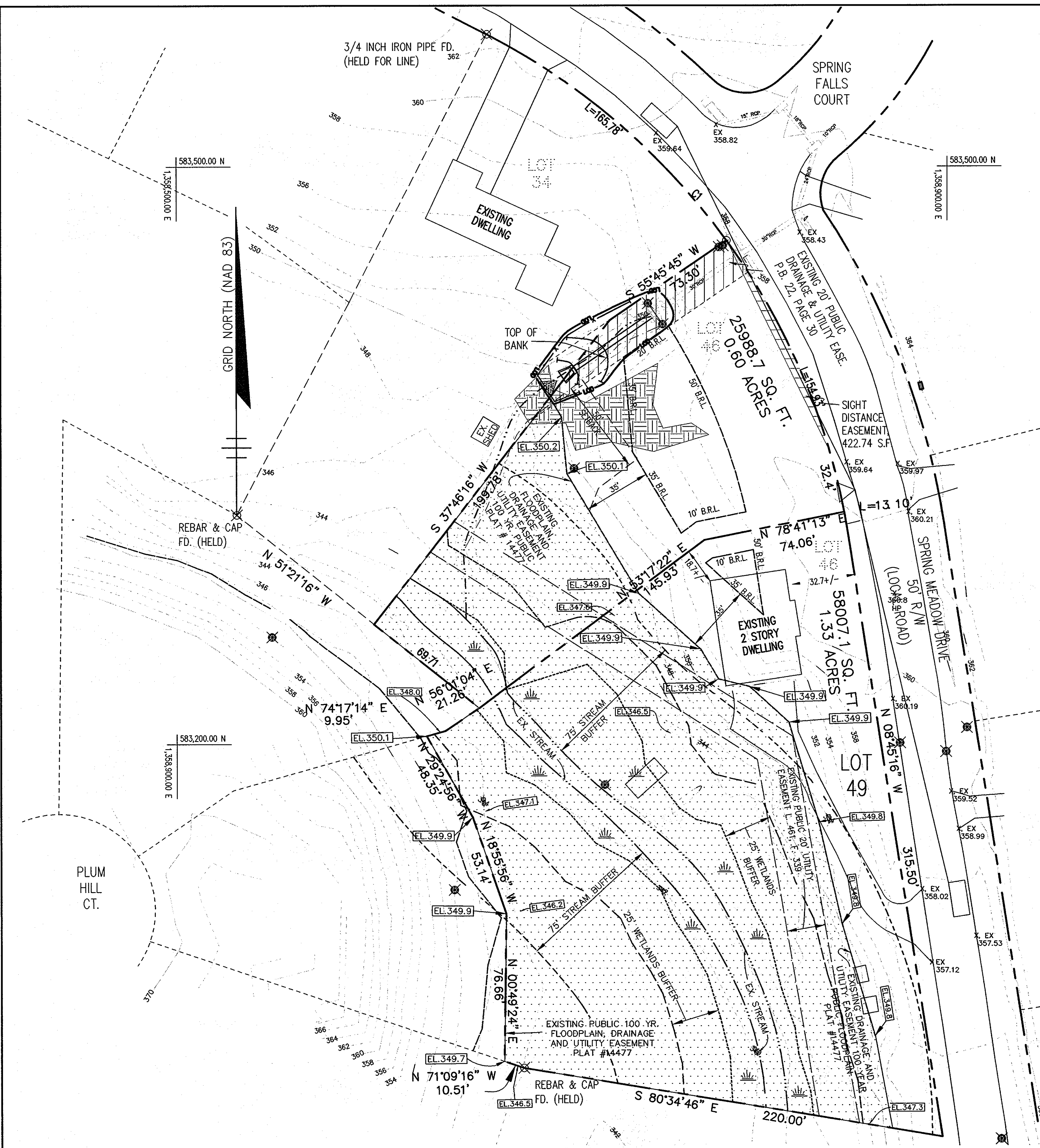
DRAINAGE AREA MAP
SCALE: 1" = 200'

Q = QA 626,400 FT²
C = 0.30
I = 5.1 in./hr.
A = 14.38 Acres
Q_p = 22.00 cfs

PLAN LEGEND

- Right-of-way Diversion
- Silt Fence
- Safety Fence
- Limit of Disturbance
- Limit of Pavement Demolition
- Proposed Drainage Divide
- Existing Drainage Divide
- Soil Boundary (18-D) Soil Type
- Inlet Protection
- Stabilized Construction Entrance With Wash Rack
- Rock Check Dam

NO AS-BUILT INFORMATION NEEDED ON THIS SHEET



APPROVED: DEPARTMENT OF PUBLIC WORKS
William J. Underhill 9-26-05
CHIEF, BUREAU OF HIGHWAYS MS DATE

APPROVED: DEPARTMENT OF PLANNING AND ZONING
Cynthia Henth 11/18/05
CHIEF, DIVISION OF LAND DEVELOPMENT DATE

David S. ... 10/18/05
CHIEF, DEVELOPMENT ENGINEERING DIVISION gm DATE

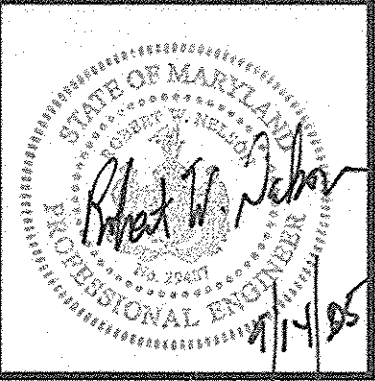
OWNER / DEVELOPER
JAMES W. BIMESTEFER
FLORIE W. BIMESTEFER (DECEASED)
3750 SPRING MEADOW DRIVE
ELLCOTT CITY, MARYLAND 21043

DEVELOPER/ BUILDER CERTIFICATE
I/ WE CERTIFY THE IMPROVEMENTS SHOWN ON THIS PLAN WILL BE DONE ACCORDING TO THE PLAN AND SECTION 16 OF THE HOWARD COUNTY CODE.
James Bimestefer 9/14/05
NAME(S) DATE

THIS PLAN IS FOR STORM DRAIN EXTENSION ONLY

The RBA ENGINEERS • ARCHITECTS • PLANNERS
Group, Inc. 7164 Columbia Gateway Drive Suite 205
Columbia, Maryland 21046 (410) 312-0986

RBA PROJ. NO.: M334.00
DRAWN BY: BBWZ
DESIGNED BY: WZ
CHECKED BY: RWN

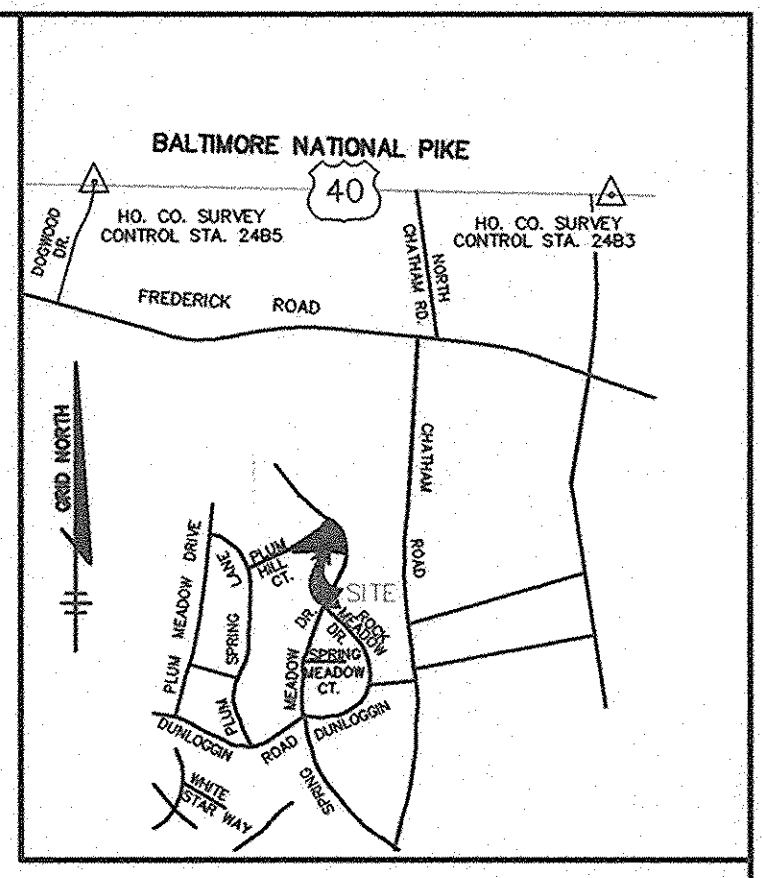


DUNLOGGIN II, SECTION 7, AREA 2
LOTS 48 & 49

TAX MAP 24, GRID 10, PARCEL 1108, ELECTION DISTRICT 2, ZONING R-20

LANDSCAPE PLAN
FOREST CONSERVATION WORKSHEET

Sheet Title:
Edition Date:
Project Date:
Date
Revision
SHEET NO.
SUPPL-5
5 of 5

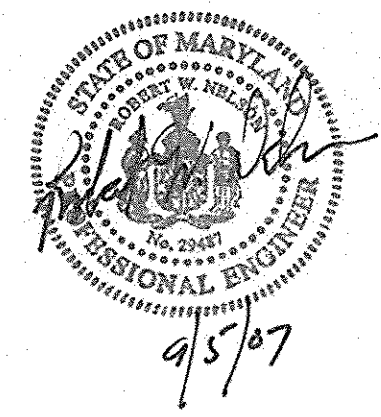
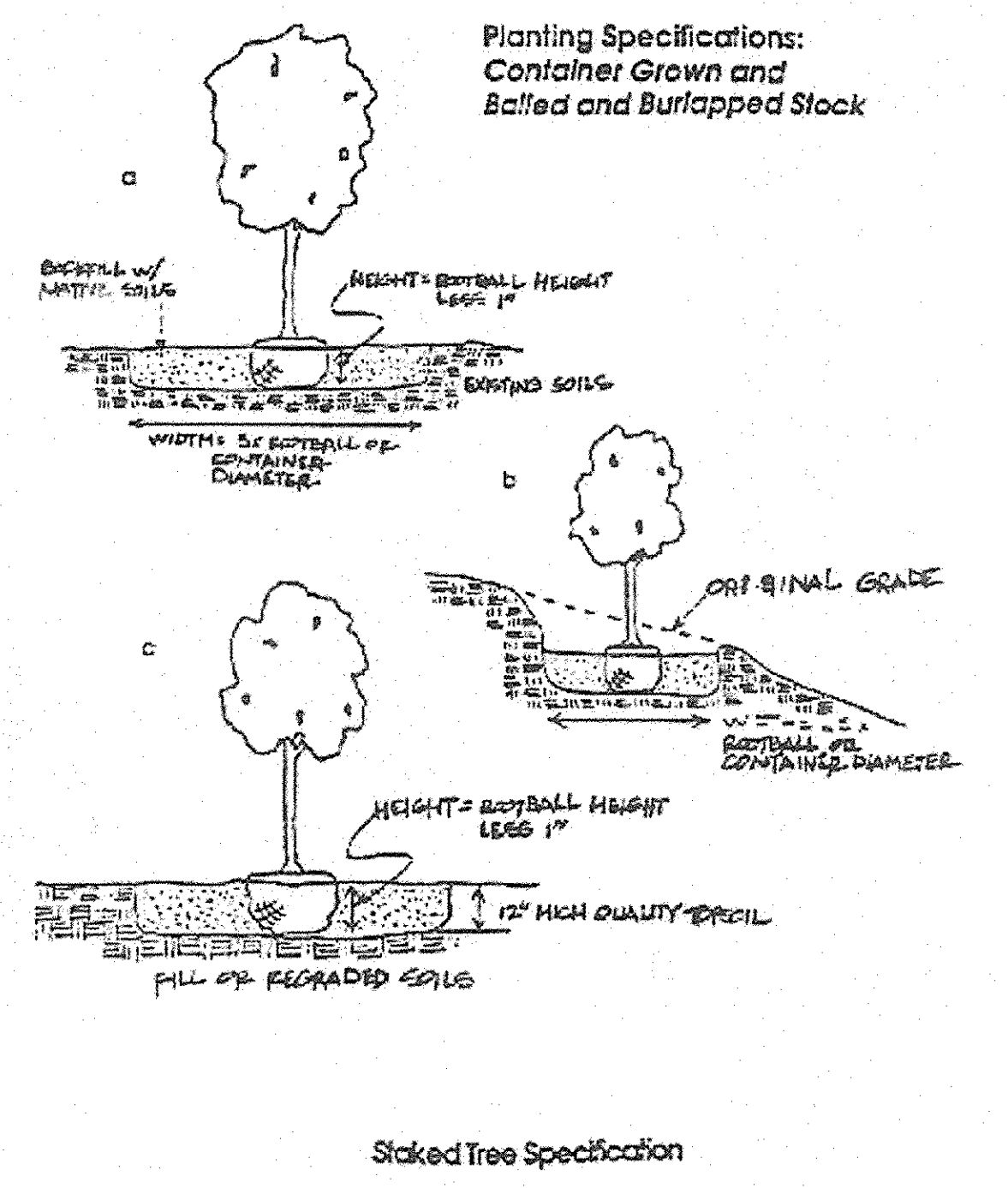


- LEGEND**
- ③ TREE TO BE SAVED
 - X TREE TO BE REMOVED
 - ⊕ TREE TO BE PLANTED
 - 100-YR FLOODPLAIN
 - STREAM
 - 25' STREAM BUFFER
 - WETLAND LIMIT
 - 25' WETLAND BUFFER
 - 15% - 25% SLOPES
 - > 25% SLOPES

PLANT SCHEDULE

Key	Qty	Botanical Name	Common Name	Size / Root
AR	2	Acer rubrum	Red Maple	2.5"-3" Caliper / B&B

FINANCIAL SURETY FOR THE REQUIRED LANDSCAPING IN THE AMOUNT OF \$600.00 FOR 2 SHADE TREES HAS BEEN POSTED WITH THE DEVELOPER'S AGREEMENT.



NO AS-BUILT INFORMATION NEEDED ON THIS SHEET

SCHEDULE A - PERIMETER LANDSCAPE EDGE

Category	Adjacent to Roadways	Adjacent to Perimeter Properties
Landscape Edge Type	None required	Type A
Linear Feet of Roadway Frontage / Perimeter	-	563
Credit for Existing Vegetation	-	Yes (see below)
Credit for Wall, Fence or Berm	-	-
Number of Plants Required	-	10
Shade Trees (1/60 LF)	-	10
Evergreen Trees	-	0
Shrubs	-	0
Number of Plants Provided	-	10.5
Shade Trees	-	2
Evergreen Trees	-	0
Other Trees	-	0
Shrubs	-	0
Credit for Existing Vegetation (see below)	-	8.5

* Schedules B, C and D do not apply to this project.

TREE CREDIT SUMMARY

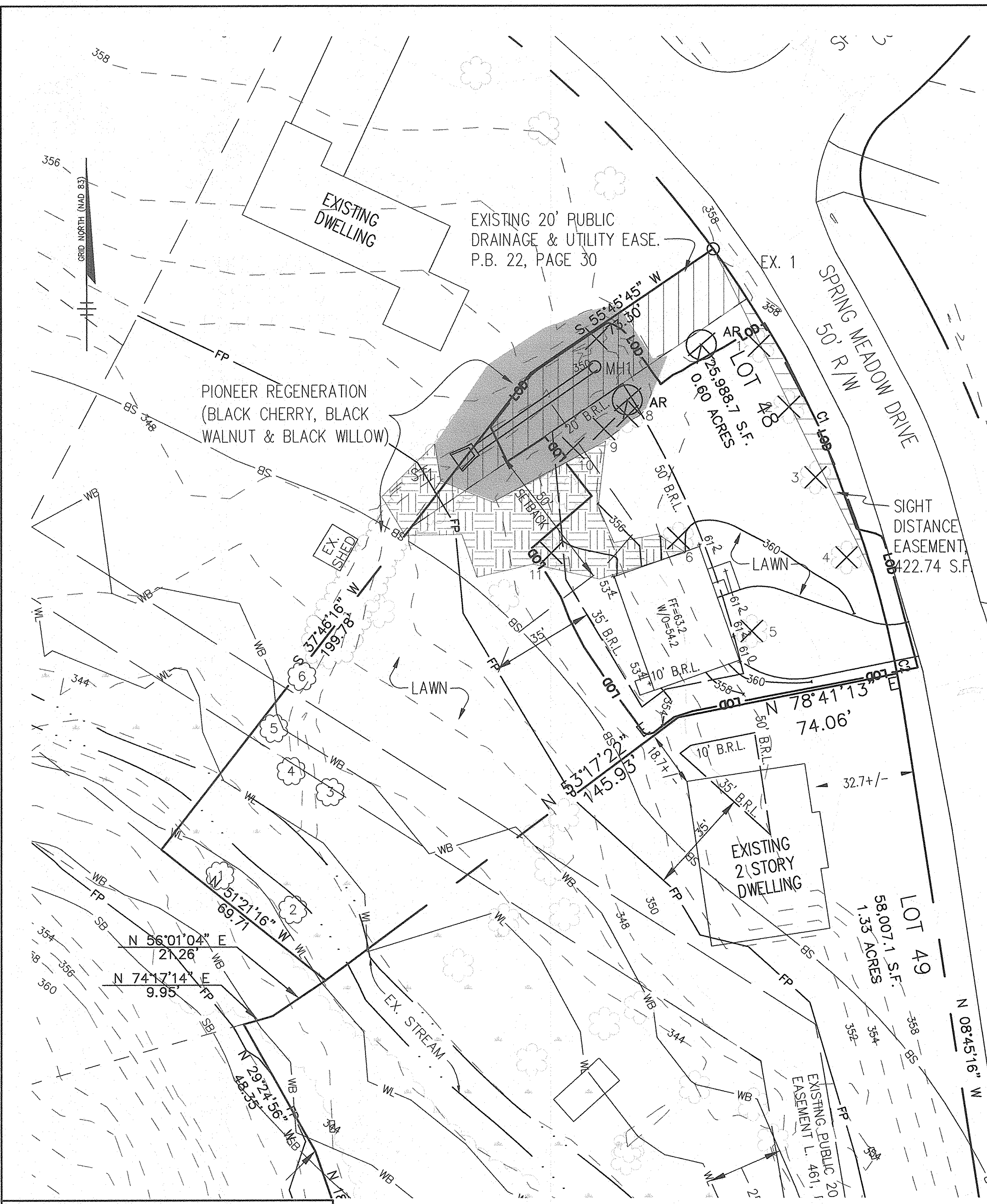
KEY	TYPE (ALL IN GOOD CONDITION)	CREDIT
①	12" RED MAPLE	1.0
②	20"/18" SILVER MAPLE TWIN	1.0
③	10" BLACK WALNUT	1.0
④	16" WHITE PINE	0.5
⑤	15" WHITE PINE	0.5
⑥	14" WHITE PINE	0.5
⑦	20" NORWAY MAPLE	1.0
⑧	26" BLACK CHERRY	1.0
⑨	6" WHITE PINE	0.5
⑩	6" WHITE PINE	0.5
⑪	20" BLACK CHERRY	1.0
TOTAL CREDIT		8.5

TREES TO BE REMOVED

KEY	TYPE
X	4" BLUE SPRUCE
X	4" BLUE SPRUCE
X	4" BLUE SPRUCE
X	4" BLUE SPRUCE
X	10" WHITE PINE
X	26" WHITE PINE
X	10" BLACK WALNUT
X	8" LEYLAND CYPRESS
X	8" LEYLAND CYPRESS
X	6" WHITE PINE
X	12" HONEY LOCUST

FOREST CONSERVATION WORKSHEET

I. BASIC SITE DATA		ACRES
GROSS SITE AREA	.....	1.92
AREA WITHIN 100-YR FLOODPLAIN	.....	1.18
NET TRACT AREA	.....	0.74
LAND USE CATEGORY	.....	R-S
II. INFORMATION FOR CALCULATIONS		
A. NET TRACT AREA	.....	0.74
B. REFORESTATION THRESHOLD (20% x A)	.....	0.15
C. AFFORESTATION THRESHOLD (15% x A)	.....	0.11
D. EXISTING FOREST ON NET TRACT	.....	0
E. FOREST AREAS TO BE CLEARED	.....	0
F. FOREST AREAS TO BE RETAINED	.....	0
III. DETERMINING REQUIREMENTS		
1. REFORESTATION IS NOT REQUIRED		
2. AFFORESTATION IS REQUIRED		
IV. REFORESTATION CALCULATIONS		
*** REFORESTATION IS NOT REQUIRED ***		
V. AFFORESTATION CALCULATIONS		
TOTAL FOREST AREA MUST EQUAL	.....	0.11
AFFORESTATIONS REQUIRED (15% x A)	.....	0.11
AFFORESTATION PROVIDED	.....	Fee In Lieu
(Afforestation requirements to be met by a Fee in Lieu Payment of \$2396)		



APPROVED: DEPARTMENT OF PUBLIC WORKS
 [Signature] 9-26-05
 CHIEF, BUREAU OF HIGHWAYS

APPROVED: DEPARTMENT OF PLANNING AND ZONING
 [Signature] 10/15/05
 CHIEF, DIVISION OF LAND DEVELOPMENT

[Signature] 10/16/05
 CHIEF, DEVELOPMENT ENGINEERING DIVISION

OWNER / DEVELOPER
 JAMES W. BIMESTEFER
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 [Signature] 9/14/05
 NAME(S) DATE

The **RBA** ENGINEERS • ARCHITECTS • PLANNERS
 Group, Inc. 7164 Columbia Gateway Drive Suite 205
 Columbia, Maryland 21046 (410) 312-0966

RBA PROJ. NO.: M3534.00
 DRAWN BY: JM
 DESIGNED BY: JM
 CHECKED BY: JM