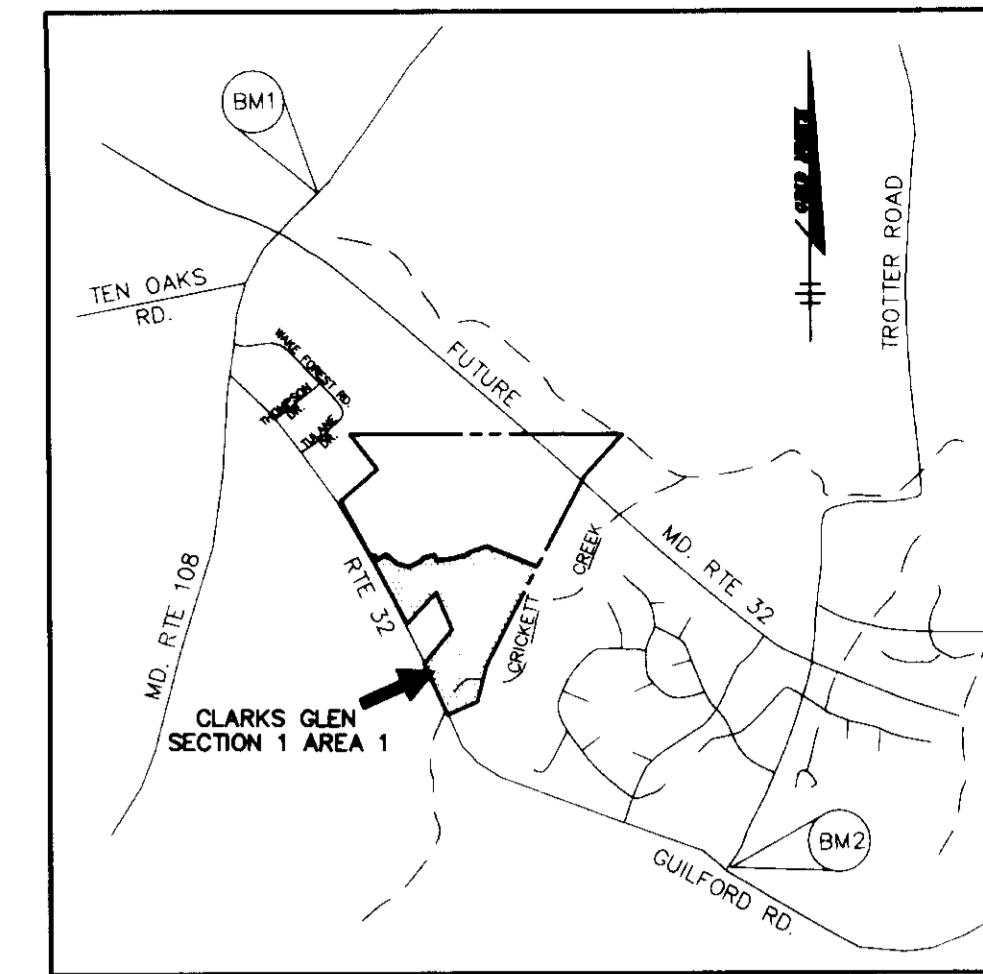


SHEET INDEX

- 1 TITLE SHEET
- 2 SITE DEVELOPMENT PLAN
- 3 SITE DEVELOPMENT PLAN
- 4 SITE DEVELOPMENT PLAN
- 5 SITE DEVELOPMENT PLAN
- 6 GRADING AND SEDIMENT CONTROL PLAN
- 7 GRADING AND SEDIMENT CONTROL PLAN
- 8 GRADING AND SEDIMENT CONTROL PLAN
- 9 GRADING AND SEDIMENT CONTROL PLAN
- 10 DETAILS AND NOTES

CLARKS GLEN SECTION 1 AREA 1 'GENERIC' SITE DEVELOPMENT PLAN

LOTS 1 - 58 5th ELECTION DISTRICT HOWARD COUNTY, MARYLAND



VICINITY MAP
SCALE: 1" = 2000'

GENERAL NOTES

1. THIS SITE IS COMPRISED OF 58 BUILDABLE LOTS, 5 OPEN SPACE LOTS, AND ONE NON-CREDITED OPEN SPACE LOT.
2. ALL WATER LINES SHALL BE CONSTRUCTED A MINIMUM OF 42" COVER BELOW FINISHED GRADE.
3. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE HOWARD COUNTY DESIGN MANUAL, VOLUME IV, I.e., STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION, LATEST AMENDMENTS.
4. APPROXIMATE LOCATION OF EXISTING UTILITIES ARE SHOWN FROM BEST AVAILABLE INFORMATION. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE EXISTING UTILITIES AND MAINTAIN UNINTERRUPTED SERVICE. ANY DAMAGE INCURRED DUE TO CONTRACTOR'S OPERATION SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTOR'S EXPENSE.
5. THE CONTRACTOR SHALL TEST PIT EXISTING UTILITIES AT LEAST (5) DAY BEFORE STARTING WORK SHOWN ON THESE DRAWINGS TO VERIFY THEIR LOCATION AND ELEVATION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY IF LOCATION OF UTILITIES IS OTHER THAN SHOWN.
6. CONTRACTOR TO NOTIFY THE FOLLOWING UTILITIES OR AGENCIES AT LEAST FIVE DAYS BEFORE STARTING WORK SHOWN ON THESE DRAWINGS:

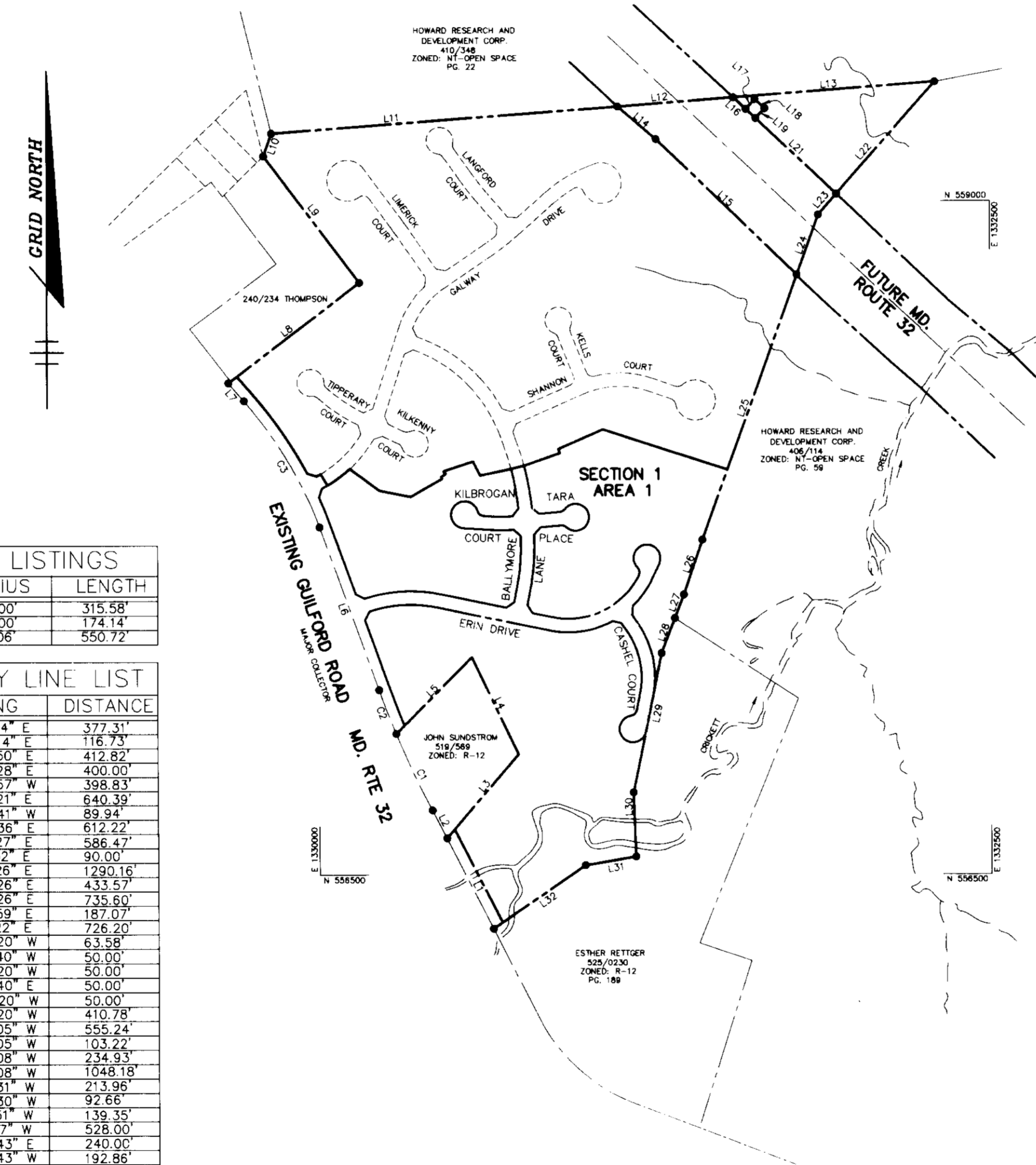
C&P TELEPHONE COMPANY	725-9976
HOWARD COUNTY BUREAU OF UTILITIES	313-4900
AT&T CABLE LOCATION DIVISION	393-3553
BALTIMORE GAS & ELECTRIC COMPANY	685-0123
STATE HIGHWAY ADMINISTRATION	531-5533
HOWARD COUNTY BUREAU OF CONSTRUCTION INSPECTION DIVISION (24 HOURS NOTICE PRIOR TO COMMENCEMENT OF WORK)	313-1880
7. THE CONTRACTOR TO NOTIFY "MISS UTILITY" AT 1-800-257-7777 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION WORK.
8. EX. TOPO IS PROPOSED GRADING TAKEN FROM F-95-83 PREPARED BY REIMER MUEGGE & ASSOCIATES, INC. AND IS AT 2 FOOT INTERVALS.
9. ALL PLAN DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED.
10. THE DEVELOPER IS RESPONSIBLE FOR THE ACQUISITION OF ALL EASEMENTS, RIGHTS AND/OR RIGHTS-OF-WAY THAT MAY BE REQUIRED FOR THE SEDIMENT AND EROSION CONTROL PRACTICES, STORM WATER MANAGEMENT PRACTICES AND THE DISCHARGE OF STORM WATER ONTO OR ACROSS ADJACENT OR DOWNSTREAM PROPERTIES INCLUDED IN THIS PLAN. HE IS ALSO RESPONSIBLE FOR THE ACQUISITION OF ALL EASEMENTS, RIGHTS AND/OR WORK ON ADJACENT PROPERTIES INCLUDED IN THIS PLAN.
11. SEE DEPARTMENT OF PLANNING AND ZONING FILE No. 's S-94-16, P-94-25, F-95-B3
12. STORMWATER MANAGEMENT IS PROVIDED FOR THIS DEVELOPMENT UNDER F-95-B3 ; POND 1 IS AN EXTENDED DETENTION FACILITY, POND 2 IS A RETENTION FACILITY.
13. ANY DAMAGE TO THE COUNTY'S RIGHT-OF-WAY SHALL BE CORRECTED AT THE CONTRACTOR'S EXPENSE.
14. PUBLIC WATER AND SEWER FOR THESE LOTS IS PROVIDED UNDER CONTRACT DRAWINGS NO. 34-3394-D.
15. WP-94-31 APPROVED 12-17-93 WAS A WAIVER TO SECTION 16.120(b)(6)(1) OF THE HOWARD COUNTY SUBDIVISION AND LAND DEVELOPMENT REGULATIONS TO ALLOW 5 ADJOINING PIPESTEMS USING A SINGLE SHARED DRIVEWAY ACCESS FROM A PUBLIC ROAD.
16. CONTRACTOR IS SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, PROCEDURES, AND SAFETY PRECAUTIONS AND PROGRAMS.
17. ALL DRIVEWAY ENTRANCES TO BE PER HOWARD COUNTY STANDARD DETAIL R-6.03
18. EXISTING SEDIMENT CONTROL DEVICES MAY NEED TO BE ADJUSTED DURING HOUSE CONSTRUCTION.
19. GRADING IS RESTRICTED IN THE WETLAND AND STREAM BUFFER AS WELL AS IN THE FOREST CONSERVATION EASEMENTS.
20. MAINTENANCE AGREEMENT REFERENCE NUMBER FOR SHARED ACCESS DRIVE: L.3650.F.176

BENCHMARKS

BM1 HOWARD COUNTY MONUMENT NO. 2637003
ELEV. 491.25
CONCRETE MONUMENT
BM2 HOWARD COUNTY MONUMENT NO. 2437003
ELEV. 472.12
CONCRETE MONUMENT

ADDRESS CHART	
LOT NUMBER	STREET ADDRESS
LOT 1	6400 ERIN DRIVE
LOT 2	6404 ERIN DRIVE
LOT 3	6408 ERIN DRIVE
LOT 4	6412 ERIN DRIVE
LOT 5	6416 ERIN DRIVE
LOT 6	6420 ERIN DRIVE
LOT 7	6424 ERIN DRIVE
LOT 8	6428 ERIN DRIVE
LOT 9	6432 ERIN DRIVE
LOT 10	6436 ERIN DRIVE
LOT 11	6440 ERIN DRIVE
LOT 12	6444 ERIN DRIVE
LOT 13	6448 ERIN DRIVE
LOT 14	6452 ERIN DRIVE
LOT 15	6456 ERIN DRIVE/ 6500 CASHEL COURT
LOT 16	6504 CASHEL COURT
LOT 17	6508 CASHEL COURT
LOT 18	6512 CASHEL COURT
LOT 19	6520 CASHEL COURT
LOT 20	6519 CASHEL COURT
LOT 21	6501 CASHEL COURT/ 6460 ERIN DRIVE
LOT 22	6464 ERIN DRIVE
LOT 23	6468 ERIN DRIVE
LOT 24	6472 ERIN DRIVE
LOT 25	6476 ERIN DRIVE
LOT 26	6480 ERIN DRIVE
LOT 27	6484 ERIN DRIVE
LOT 28	6488 ERIN DRIVE
LOT 29	6492 ERIN DRIVE
LOT 30	6496 ERIN DRIVE

ADDRESS CHART	
LOT NUMBER	STREET ADDRESS
LOT 31	6445 ERIN DRIVE/ 6500 BALLYMORE LANE
LOT 32	6504 BALLYMORE LANE
LOT 33	6508 BALLYMORE LANE/ 6400 TARA PLACE
LOT 34	6404 TARA PLACE
LOT 35	6408 TARA PLACE
LOT 36	6412 TARA PLACE
LOT 37	6416 TARA PLACE
LOT 38	6420 TARA PLACE
LOT 39	6424 TARA PLACE
LOT 40	6428 TARA PLACE
LOT 41	6516 BALLYMORE LANE
LOT 42	6513 BALLYMORE LANE/ 6400 KILBROGAN COURT
LOT 43	6404 KILBROGAN COURT
LOT 44	6408 KILBROGAN COURT
LOT 45	6412 KILBROGAN COURT
LOT 46	6416 KILBROGAN COURT
LOT 47	6420 KILBROGAN COURT
LOT 48	6424 KILBROGAN COURT
LOT 49	6428 KILBROGAN COURT
LOT 50	6509 BALLYMORE LANE/ 6401 KILBROGAN COURT
LOT 51	6505 BALLYMORE LANE
LOT 52	6501 BALLYMORE LANE/ 6425 ERIN DRIVE
LOT 53	6421 ERIN DRIVE
LOT 54	6425 ERIN DRIVE
LOT 55	6429 ERIN DRIVE
LOT 56	6433 ERIN DRIVE
LOT 57	6437 ERIN DRIVE
LOT 58	6441 ERIN DRIVE
LOTS 59-64	OPEN SPACE



CURVE LISTINGS		
CURVE	RADIUS	LENGTH
C1	4000.00'	315.58'
C2	4000.00'	174.14'
C3	1519.06'	550.72'

PROPERTY LINE LIST		
LINE	BEARING	DISTANCE
L1	S 27°05'14" E	377.31'
L2	S 27°05'14" E	118.73'
L3	S 40°34'50" E	412.82'
L4	S 25°44'28" E	400.00'
L5	S 44°40'57" W	398.83'
L6	S 20°04'21" E	640.39'
L7	N 40°50'41" W	89.94'
L8	N 52°30'36" E	612.22'
L9	S 37°10'27" E	586.47'
L10	N 19°19'55" E	90.00'
L11	N 85°37'26" E	1290.10'
L12	N 85°37'26" E	433.57'
L13	N 85°37'26" E	735.60'
L14	S 45°47'59" E	187.07'
L15	S 45°47'59" E	726.20'
L16	N 46°56'20" W	63.58'
L17	S 43°03'40" W	50.00'
L18	N 46°56'20" W	50.00'
L19	N 43°03'40" E	50.00'
L20	N 46°56'20" W	50.00'
L21	N 46°56'20" W	410.78'
L22	S 41°33'05" W	555.24'
L23	S 41°33'05" W	103.22'
L24	S 19°50'08" W	234.93'
L25	S 19°50'08" W	1048.18'
L26	S 18°50'31" W	213.95'
L27	S 21°49'30" W	92.65'
L28	S 21°49'30" W	139.35'
L29	S 11°41'17" W	528.00'
L30	S 02°18'43" E	240.00'
L31	S 02°18'43" E	192.86'
L32	S 55°26'00" W	415.25'

S.H.C. CHART		
LOT NO.	M.C.E.	INV. @ PL
LOT 1	406.7	402.2
LOT 2	411.5	406.9
LOT 3	410.8	404.5
LOT 4	409.4	404.6
LOT 5	409.3	404.6
LOT 6	409.9	404.4
LOT 7	412.9	408.4
LOT 8	413.1	408.6
LOT 9	408.6	404.1
LOT 10	405.4	399.5
LOT 11	406.5	401.8
LOT 12	410.5	406.2
LOT 13	405.0	398.3
LOT 14	403.5	397.9
LOT 15	397.5	392.2
LOT 16	395.5	390.1
LOT 17	393.7	389.1
LOT 18	391.5	386.9
LOT 19	389.2	384.2
LOT 20	388.4	383.5
LOT 21	397.5	391.9
LOT 22	397.3	392.8
LOT 23	400.3	394.6
LOT 24	400.7	395.8
LOT 25	401.2	395.2
LOT 26	401.3	396.7
LOT 27	402.8	397.9
LOT 28	400.5	395.5
LOT 29	401.2	395.4
LOT 30	402.3	398.2

S.H.C. CHART		
LOT NO.	M.C.E.	INV. @ PL
LOT 31	419.2	414.7
LOT 32	418.9	413.1
LOT 33	426.8	421.9
LOT 34	426.0	421.0
LOT 35	422.8	417.9
LOT 36	422.5	417.1
LOT 37	422.6	417.4
LOT 38	422.5	417.5
LOT 39	426.0	421.5
LOT 40	429.0	424.0
LOT 41	435.5	430.0
LOT 42	429.5	424.6
LOT 43	424.8	422.8
LOT 44	426.9	421.9
LOT 45	424.1	418.8
LOT 46	423.1	418.4
LOT 47	421.1	416.6
LOT 48	424.7	420.1
LOT 49	426.8	422.4
LOT 50	427.5	423.0
LOT 51	418.0	413.4
LOT 52	417.2	412.7
LOT 53	417.2	412.3
LOT 54	412.2	407.4
LOT 55	410.1	405.3
LOT 56	407.0	402.1
LOT 57	407.7	402.6
LOT 58	407.3	402.5

PLAN
SCALE: 1" = 400'

SITE TABULATION

TOTAL AREA OF SUBMISSION: 35.70 Ac.
EXISTING ZONING: R-12
PROPOSED USE: SINGLE FAMILY DETACHED HOMES
NO. OF DWELLING UNITS PROPOSED: 58
OPEN SPACE: 14.78 AC. (41.4 % OF GROSS)

MINIMUM LOT SIZE TABULATION						
LOT NO.	GROSS AREA	LESS PIPESTEM	REMAINING AREA	LESS FLOODPLAIN	LESS STEEP SLOPES	MIN. LOT AREA
3	11,844	680	11,164	0	0	11,164
4	13,810	1,475	12,335	0	0	12,335
5	13,942	1,490	12,452	0	0	12,452
6	15,817	661	15,156	0	0	15,156
9	13,338	836	12,502	0	0	12,502
10	15,070	1,559	13,511	0	1,063	12,448
11	11,402	946	10,456	0	200	10,256
14	11,748	0	11,748	0	1,400	10,348
29	14,917	987	13,930	0	0	13,930
28	12,035	0	12,035	0	650	11,385
45	11,337	563	10,774	0	0	10,774
47	11,179	511	10,668	0	0	10,668

SUBDIVISION NAME: CLARKS GLEN		SECT./AREA: 1/1	PARCEL: LOTS 1-58
PLAT #: 12093-12099	BLOCK #: 1/1	ZONE: R-12	TAX MAP NO.: 35
ELECT. DIST.: 5 TH		CENSUS TRACT: 6055	
WATER CODE: I-11		SEWER CODE: 6650000	

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.

James R. Smith 3/23/96
DIRECTOR DATE
John J. ... 3/18/96
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE
Gina J. ... 3/27/96
CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH DATE

DATE NO. REVISION

OWNERS / DEVELOPER
WILBEN LIMITED PARTNERSHIP
C/O ANDREW L. ISAACSON
5450 WHITELY PARK TERRACE # 410
BETHESDA, MD 20814
301-530-1123

PROJECT
CLARKS GLEN SECTION 1 AREA 1 LOTS 1-58

AREA
TAX MAP NO. 35 PARCEL 205
5th ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

TITLE
TITLE SHEET

RIEMER MUEGGE & ASSOCIATES, INC.
Planners Engineers Surveyors
8818 Centre Park Drive Suite 200 Columbia, Md 21046
410-997-8900 FAX: 410-997-9282

3-7-96 DATE
S-94-16, P-94-25, F-95-WP-94-31

DESIGNED BY: JTD

DRAWN BY: JTD

PROJECT NO.: 93218

DATE: MARCH 7, 1996

SCALE: AS SHOWN
DRAWING NO. 1 OF 10

J. Savell
JAYKANT D. PAREKH #19148
SDP-96-22

SEDIMENT BASIN #2	
DRAINAGE AREA (AC.)	16.5
STORAGE REQUIRED (CF.)	29,700
STORAGE PROVIDED (CF.)	30,350
TOP BERM ELEVATION	400.3
WEIR ELEVATION	394.74 + 398.50
WEIR LENGTH	2'-5" + 20'-0"
CLEAN OUT ELEVATION	392.2
DEPTH (FE)	4.94
SIDE SLOPES	2:1

BY THE DEVELOPER:
 I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTIONS BY THE HOWARD SOIL CONSERVATION DISTRICT.

Michael J. Seid 3/7/96
 DEVELOPER DATE

BY THE ENGINEER:
 I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

J. Farrell 3.7.96
 ENGINEER DATE

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR EROSION AND SEDIMENT CONTROL.

J. H. Workfield 3/14/96
 NATURAL RESOURCES CONSERVATION SERVICE DATE

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

John R. Polston 3/11/96
 HOWARD SOIL CONSERVATION DISTRICT DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.

Augusta Batts 3/25/96
 DIRECTOR DATE

Jim Johnson 3/17/96
 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

Jim Johnson 3/27/96
 CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH DATE

DATE NO.	REVISION

OWNER / DEVELOPER
 WILBEN LIMITED PARTNERSHIP
 C/O ANDREW L. ISAACSON
 92'S OVERLA DR VE
 ROCKVILLE, MD 20850
 301-650-7111

PROJECT
 CLARKS GLEN SECTION 1 AREA 1

AREA
 TAX MAP 35 PARCELS 205
 5TH ELECTION DISTRICT
 HOWARD COUNTY, MD

TITLE
 GRADING AND SEDIMENT CONTROL PLAN

RIEMER MUEGGE & ASSOCIATES, INC.
 Planners • Engineers • Surveyors
 8818 Centre Park Drive • Suite 200 • Columbia, MD 21045
 410-997-8900 FAX: 410-997-9282

3.7.96
 DATE

DESIGNED BY: *J. Farrell*

DRAWN BY: *M. J. Seid*

PROJECT NO. 3328

DATE: MARCH 7, 1996

SCALE: 1" = 30'

DRAWING NO. 9 OF 10

JAYKANT D. PAREKH #19148

SDP-96-22

FOREST CONSERVATION EASEMENT

FOREST CONSERVATION EASEMENT

SEDIMENT BASIN #2

LEGEND

- EX. S.F. ——— EXISTING SILT FENCE
- EX. S.S.F. ——— EXISTING SUPER SILT FENCE
- EXISTING EARTH DIKE
- EXIST. S.F.I.P. [Symbol] EXISTING, STONE FILTER INLET PROTECTION
- [Symbol] S.C.E. STABILIZED CONSTRUCTION ENTRANCE
- - - L.O.D. - - - LIMIT OF DISTURBANCE

KILBROGAN COURT (HOWARD CO. PUBLIC ROAD)

TARA PLACE (HOWARD CO. PUBLIC ROAD)

ERIN DRIVE (HOWARD CO. PUBLIC ROAD)

BALLYMORE LANE (HOWARD COUNTY PUBLIC ROAD)

FOR CONTINUATION SEE SHEET 2

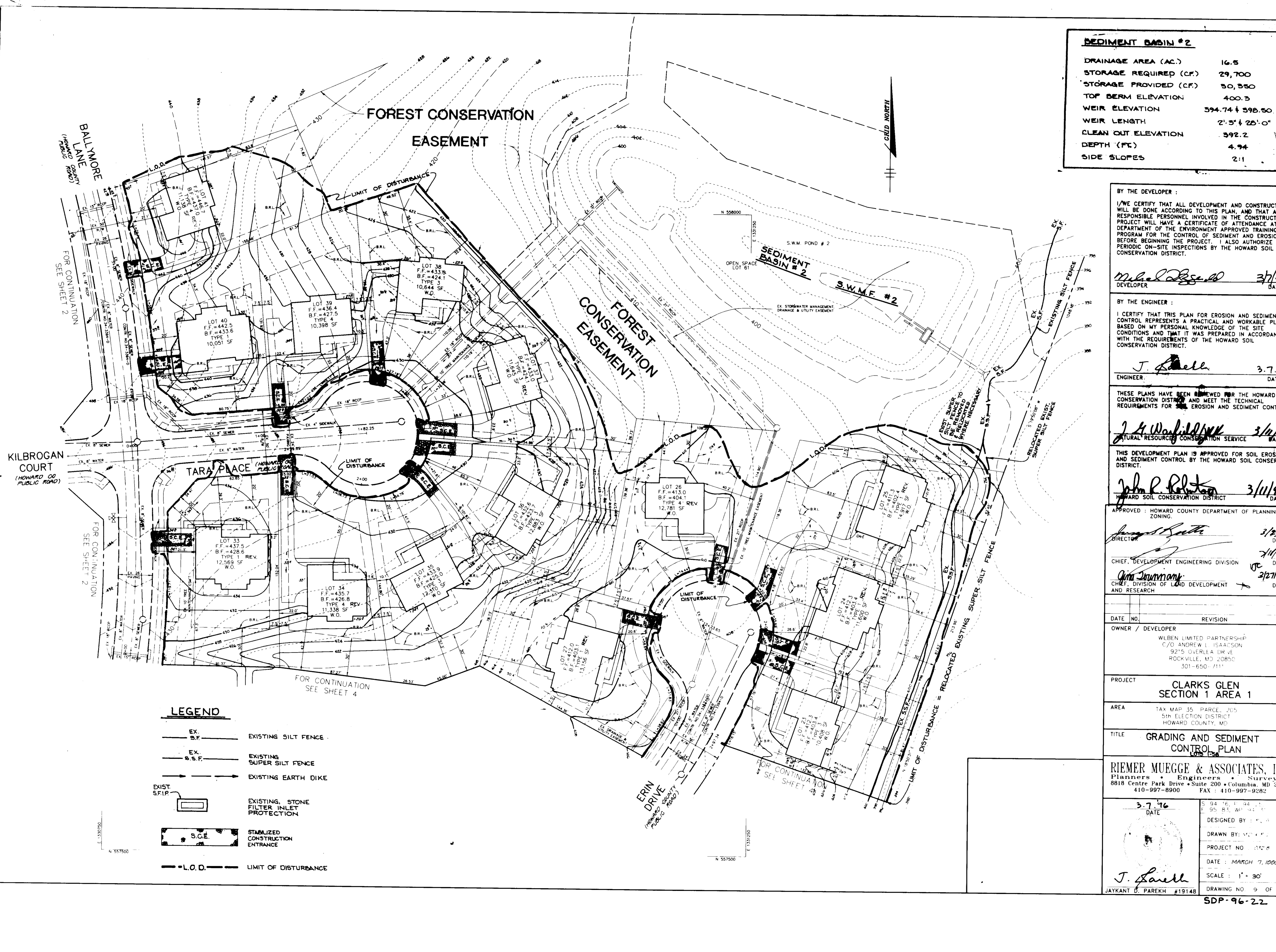
FOR CONTINUATION SEE SHEET 2

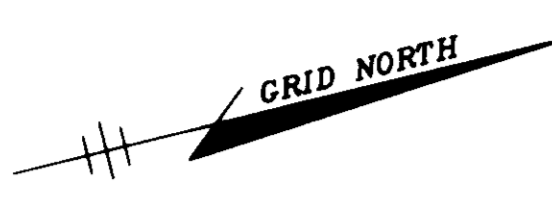
FOR CONTINUATION SEE SHEET 4

FOR CONTINUATION SEE SHEET 3

N 557500

N 557500



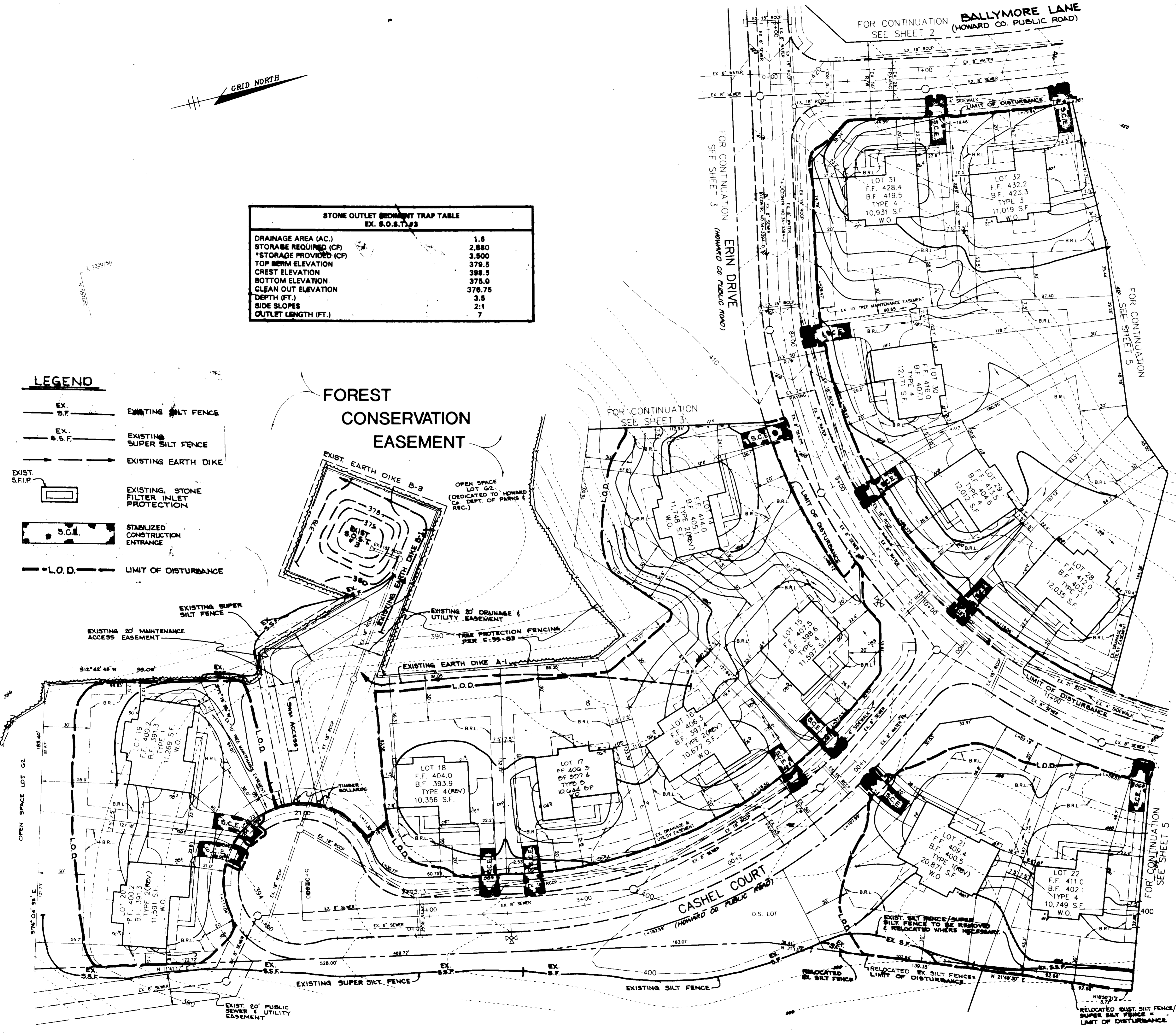


STONE OUTLET SEDIMENT TRAP TABLE EX. S.O.S.T. #3	
DRAINAGE AREA (AC.)	1.8
STORAGE REQUIRED (CF)	2,880
*STORAGE PROVIDED (CF)	3,500
TOP BERM ELEVATION (CF)	379.5
CREST ELEVATION	398.5
BOTTOM ELEVATION	375.0
CLEAN OUT ELEVATION	378.75
DEPTH (FT.)	3.5
SIDE SLOPES	2:1
OUTLET LENGTH (FT.)	7

LEGEND

- EX. S.F. ——— EXISTING SILT FENCE
- EX. S.S.F. ——— EXISTING SUPER SILT FENCE
- EXISTING EARTH DIKE
- EXIST. S.F.I.P. [Symbol] EXISTING STONE FILTER INLET PROTECTION
- [Symbol] STABILIZED CONSTRUCTION ENTRANCE
- L.O.D. ——— LIMIT OF DISTURBANCE

FOREST CONSERVATION EASEMENT



BY THE DEVELOPER:
I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTIONS BY THE HOWARD SOIL CONSERVATION DISTRICT.

Mukul Aggarwal 3/7/96
DEVELOPER DATE

BY THE ENGINEER:
I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

J. Farrell 3.7.96
ENGINEER DATE

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SOIL EROSION AND SEDIMENT CONTROL.

J. H. Weisfield 3/4/96
NATURAL RESOURCES CONSERVATION SERVICE DATE

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

John R. Peltzer 3/1/96
HOWARD SOIL CONSERVATION DISTRICT DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.

Dina Samir 3/2/96
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

[Signature] 5/1/96
CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH DATE

[Signature] 3/29/96
DIRECTOR DATE

DATE	NO.	REVISION

OWNER / DEVELOPER
WILBEN LIMITED PARTNERSHIP
C/O ANDREW L. ISAACSON
9215 OVERLEA DRIVE
ROCKVILLE, MD 20850
301-650-7111

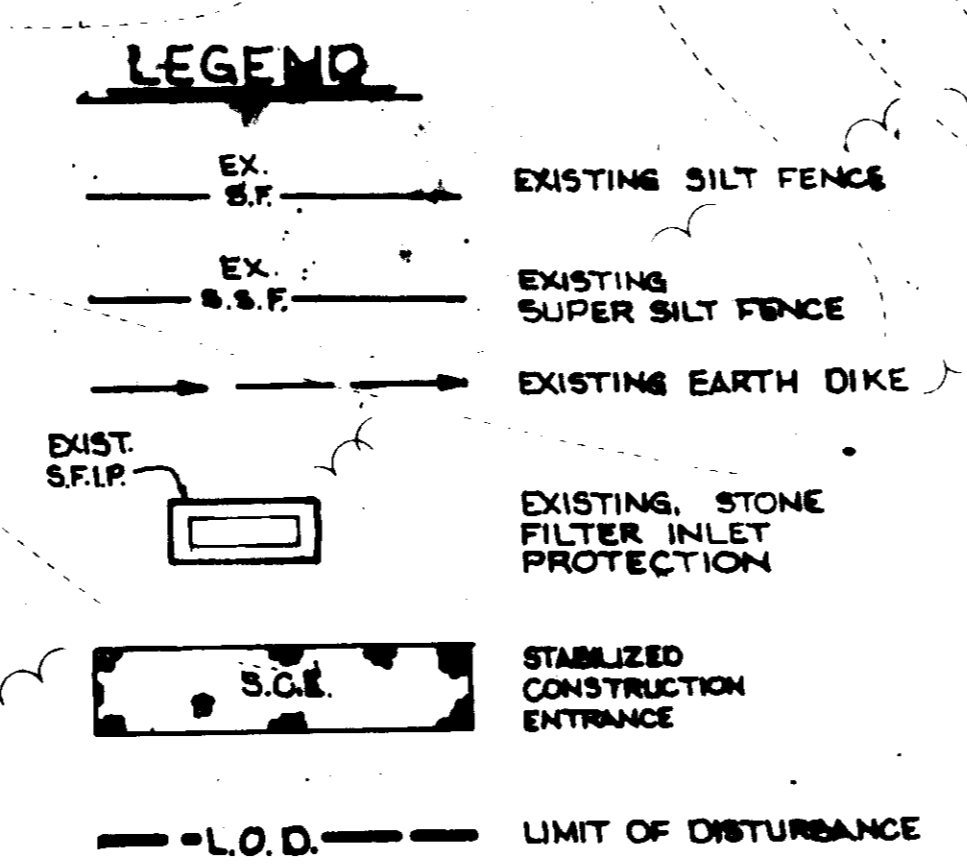
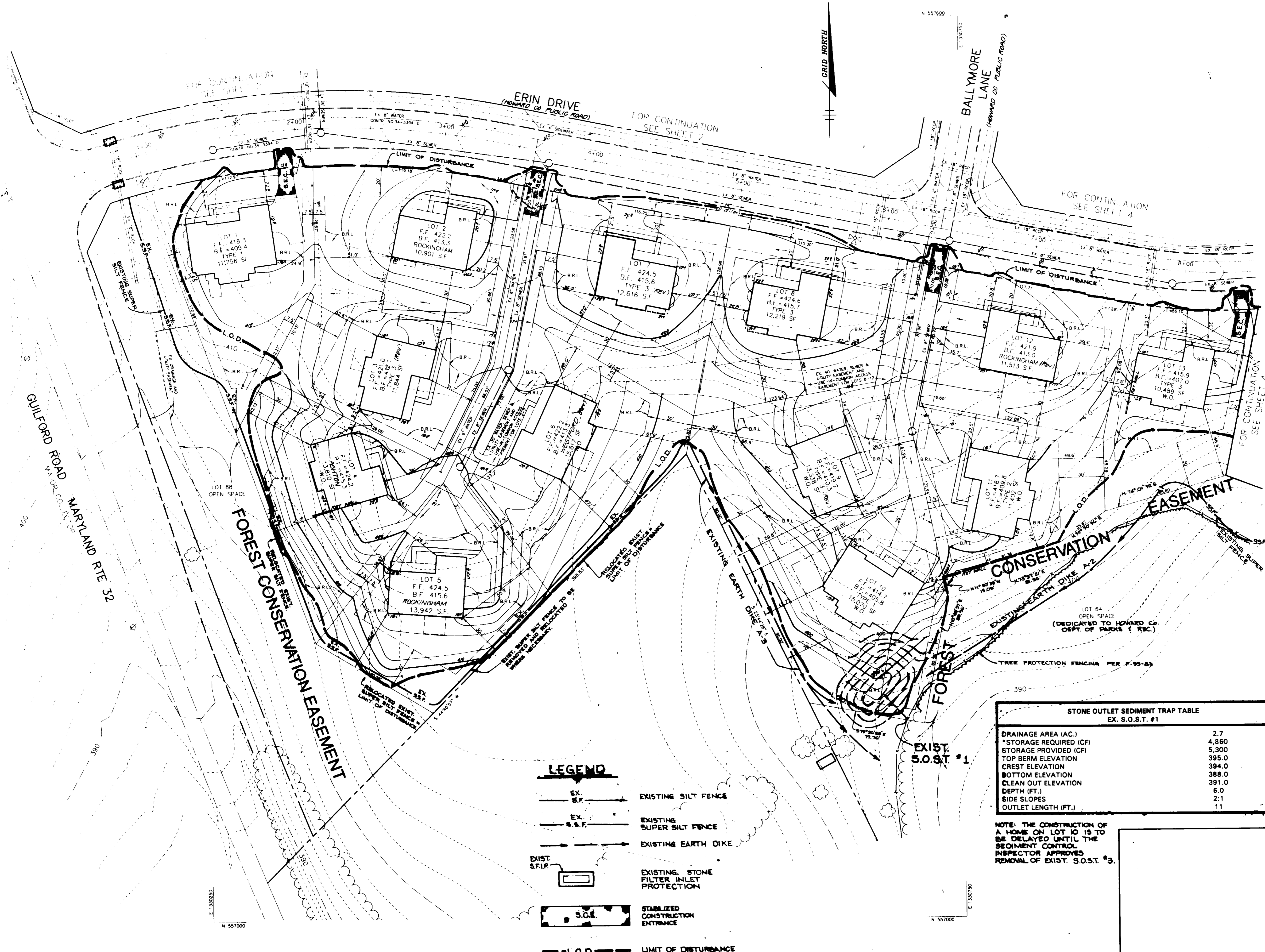
PROJECT
CLARKS GLEN SECTION 1 AREA 1

AREA
TAX MAP 35 PARCEL 205
5th ELECTION DISTRICT
HOWARD COUNTY, MD.

TITLE
GRADING AND SEDIMENT CONTROL PLAN

RIEMER MUEGGE & ASSOCIATES, INC.
Planners • Engineers • Surveyors
8818 Centre Park Drive • Suite 200 • Columbia, MD 21045
410-997-8900 FAX: 410-997-9282

3.7.96
DATE
J. Farrell
DESIGNED BY: JCF
DRAWN BY: MD, FCG
PROJECT NO.: 03218
DATE: MARCH 7, 1996
SCALE: 1" = 30'
DRAWING NO.: 15 OF 10



STONE OUTLET SEDIMENT TRAP TABLE
EX. S.O.S.T. #1

DRAINAGE AREA (AC.)	2.7
*STORAGE REQUIRED (CF)	4,860
STORAGE PROVIDED (CF)	5,300
TOP BERM ELEVATION	395.0
CREST ELEVATION	394.0
BOTTOM ELEVATION	388.0
CLEAN OUT ELEVATION	391.0
DEPTH (FT.)	6.0
SIDE SLOPES	2:1
OUTLET LENGTH (FT.)	11

NOTE: THE CONSTRUCTION OF A HOME ON LOT 10 IS TO BE DELAYED UNTIL THE SEDIMENT CONTROL INSPECTOR APPROVES REMOVAL OF EXIST. S.O.S.T. #3.

BY THE DEVELOPER:
I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE ACCORDING TO THIS PLAN, AND THAT ANY 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 INSPECTIONS BY THE HOWARD SOIL CONSERVATION DISTRICT.

Misha Lal Singh 3/7/96
DEVELOPER DATE

BY THE ENGINEER:
I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

J. Farrell 3/7/96
ENGINEER DATE

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SOIL EROSION AND SEDIMENT CONTROL.

J. W. Wadsworth 3/4/96
NATURAL RESOURCES CONSERVATION SERVICE DATE

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

John P. Robinson 3/11/96
HOWARD SOIL CONSERVATION DISTRICT DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.

James S. Smith 3/23/96
DIRECTOR DATE

J. W. Wadsworth 3/11/96
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

Jim Swannick 3/21/96
CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH DATE

OWNER / DEVELOPER
WILBEN LIMITED PARTNERSHIP
C/O ANDREW L. ISAACSON
9215 OVERLEA DRIVE
ROCKVILLE, MD 20850
301-650-7111

PROJECT
CLARKS GLEN SECTION 1 AREA 1

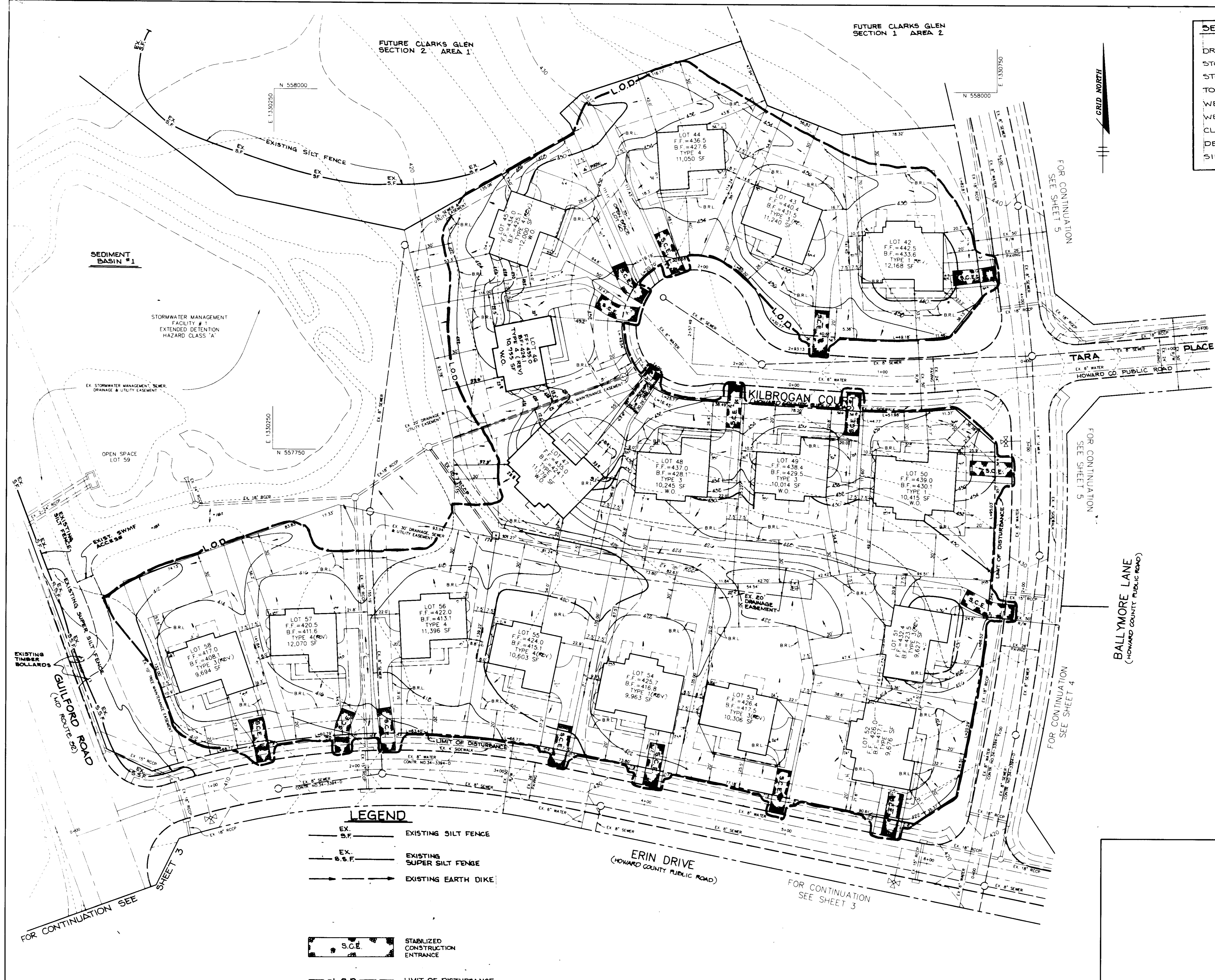
AREA
TAX MAP 35 PARCEL 205
5th ELECTION DISTRICT
HOWARD COUNTY, MD.

TITLE
"GRADING AND SEDIMENT CONTROL PLAN"

RIEMER MUEGGE & ASSOCIATES, INC.
Planners • Engineers • Surveyors
8818 Centre Park Drive • Suite 200 • Columbia, MD 21045
410-997-8900 FAX: 410-997-9282

3/7/96
DATE

DESIGNED BY: RDA
DRAWN BY: MDKRC
PROJECT NO: 032A
DATE: MARCH 7, 1996
SCALE: 1" = 30'
DRAWING NO. 7 OF 10



SEDIMENT BASIN #1	
DRAINAGE AREA (AC.)	8.8
STORAGE REQUIRED (CF)	15,840
STORAGE PROVIDED (CF)	57,460
TOP BERM ELEVATION	415.0
WEIR ELEVATION	411.8 7' ORIFICE
WEIR LENGTH	28' INV. 410.0
CLEAN CUT ELEVATION	408.5
DEPTH (FT.)	3.0'
SIDE SLOPES	3:1 INSIDE 4:1 OUTSIDE

BY THE DEVELOPER:
 I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTIONS BY THE HOWARD SOIL CONSERVATION DISTRICT.

Mahad B. G. al 3/7/96
 DEVELOPER DATE

BY THE ENGINEER:
 I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

J. Parekh 3.7.96
 ENGINEER DATE

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SOIL EROSION AND SEDIMENT CONTROL.

J. A. Warfield 3/11/96
 NATURAL RESOURCE CONSERVATION SERVICE DATE

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

John P. Rautava 3/11/96
 HOWARD SOIL CONSERVATION DISTRICT DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.

James R. Smith 3/22/96
 DIRECTOR DATE

Jim Sammons 3/16/96
 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

Jim Sammons 3/22/96
 CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH DATE

DATE	NO.	REVISION

OWNER / DEVELOPER
 WILBEN LIMITED PARTNERSHIP
 C/O ANDREW L. ISAACSON
 9215 OVERLEA DRIVE
 ROCKVILLE, MD 20850
 301-650-7111

PROJECT
 CLARKS GLEN SECTION 1 AREA 1

AREA
 TAX MAP 35 PARCEL 205
 5th ELECTION DISTRICT
 HOWARD COUNTY, MD

TITLE
 GRADING AND SEDIMENT CONTROL PLAN

RIEMER MUEGGE & ASSOCIATES, INC.
 Planners • Engineers • Surveyors
 8818 Centre Park Drive • Suite 200 • Columbia, MD 21045
 410-997-8900 FAX: 410-997-9282

3.7.96
 DATE

DESIGNED BY: J.P.

DRAWN BY: J.P.

PROJECT NO.: 332/B

DATE: MARCH 7, 1996

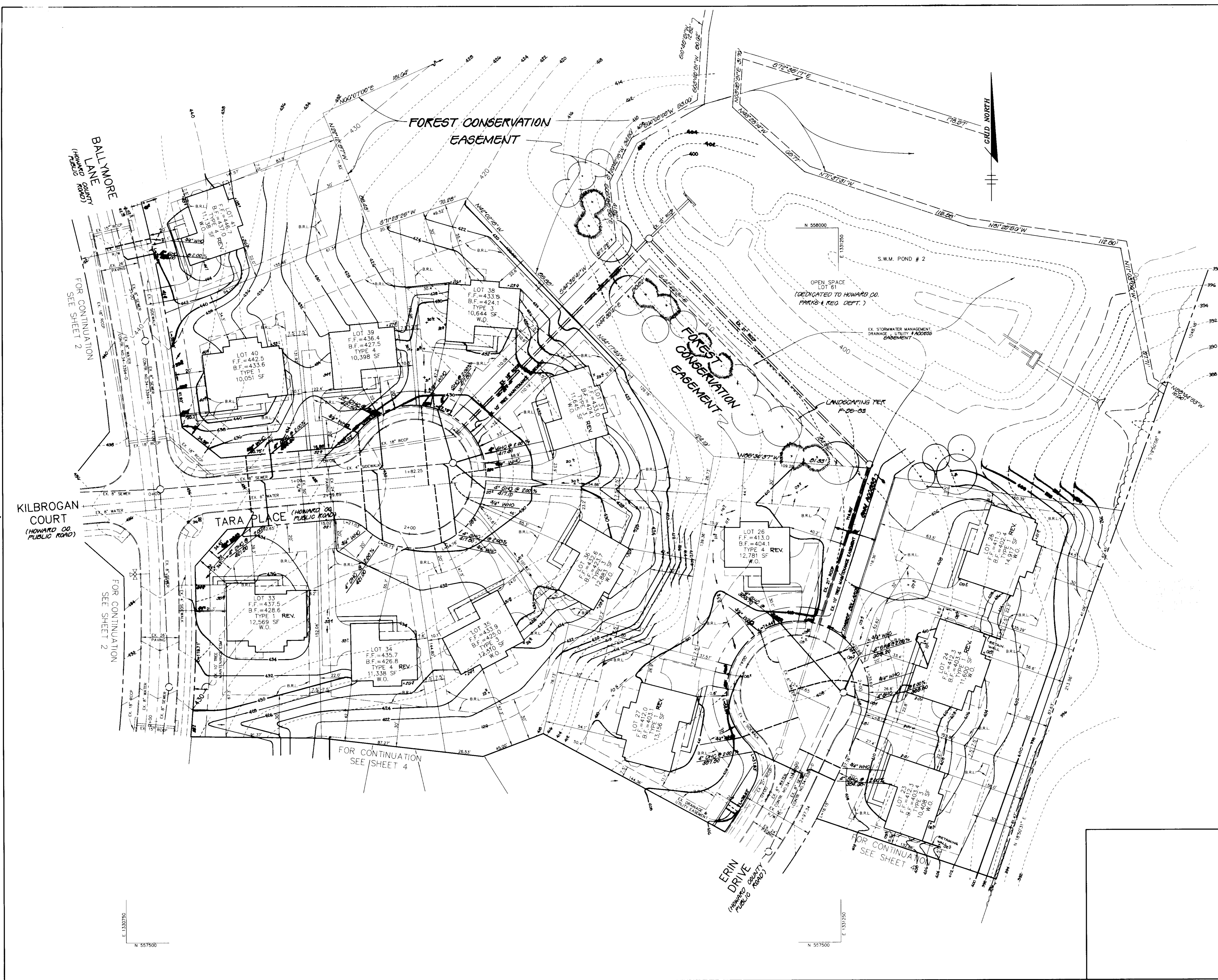
SCALE: 1" = 30'

DRAWING NO. 6 OF 10
 SDP-96-22

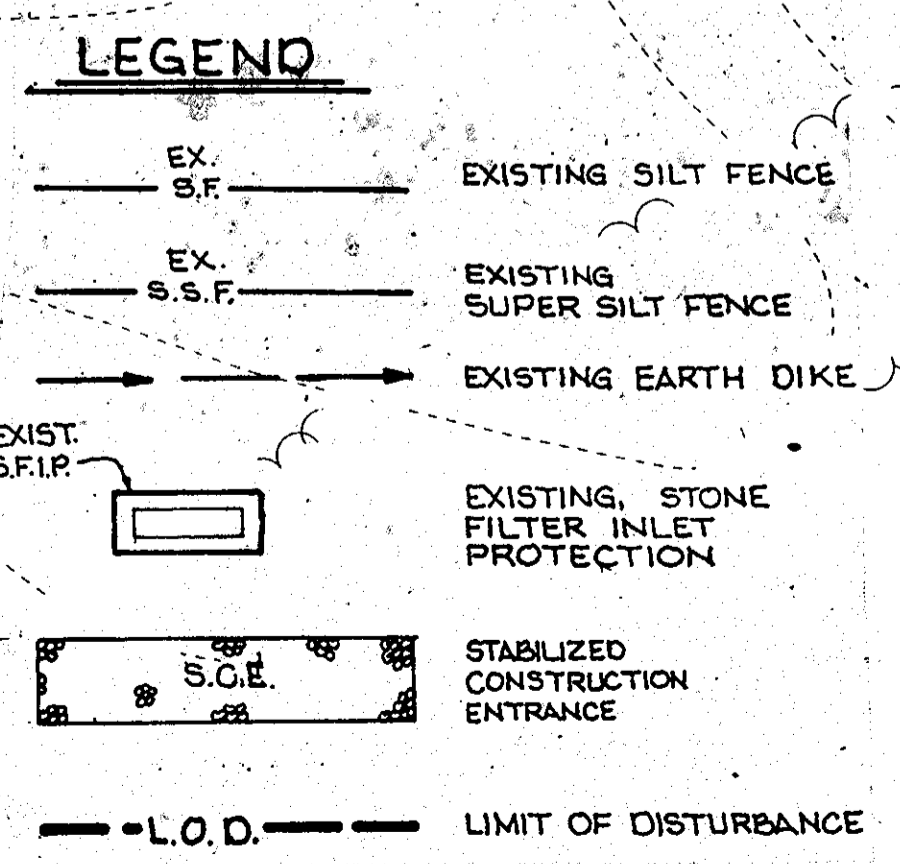
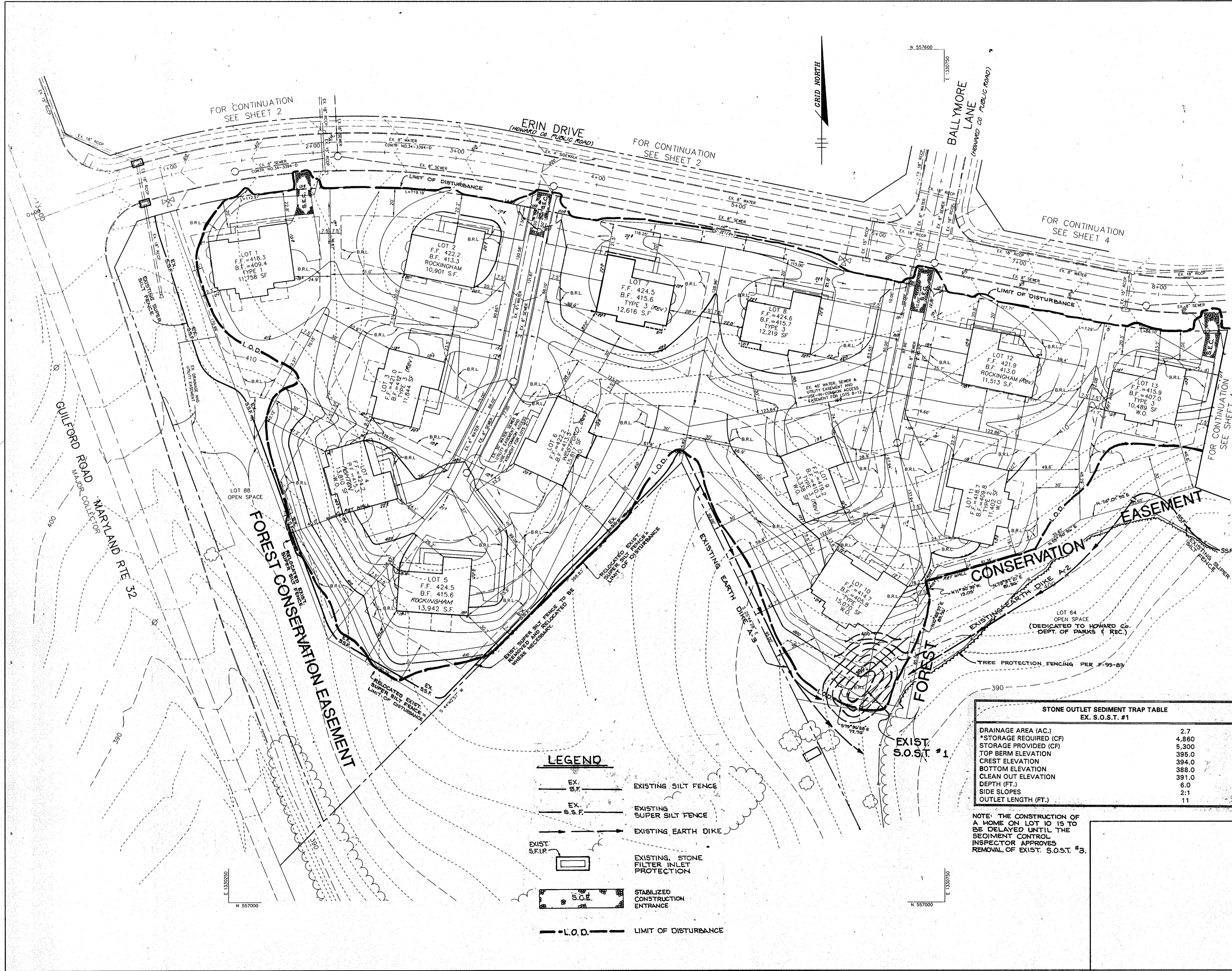
- LEGEND**
- EX. S.F. ——— EXISTING SILT FENCE
 - EX. S.S.F. ——— EXISTING SUPER SILT FENCE
 - EXISTING EARTH DIKE
 - LIMIT OF DISTURBANCE
 - S.C.E. STABILIZED CONSTRUCTION ENTRANCE



J. Parekh
 JAYKANT D. PAREKH #19148



APPROVED : HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.	
<i>James Butler</i> DIRECTOR	3/29/06 DATE
<i>[Signature]</i> CHIEF, DEVELOPMENT ENGINEERING DIVISION	3/14/06 DATE
<i>Gina Strimmon</i> CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH	3/27/06 DATE
DATE NO.	REVISION
OWNER / DEVELOPER WILBEN LIMITED PARTNERSHIP C/O ANDREW L. ISAACSON 9215 OVERLEA DRIVE ROCKVILLE, MD 20850 301-650-7111	
PROJECT CLARKS GLEN SECTION 1 AREA 1 LOTS 1-60	
AREA TAX MAP 35 PARCEL 205 5th ELECTION DISTRICT HOWARD COUNTY, MD.	
TITLE SITE DEVELOPMENT PLAN	
RIEMER MUEGGE & ASSOCIATES, INC. Planners • Engineers • Surveyors 8818 Centre Park Drive • Suite 200 • Columbia, MD 21045 410-997-8900 FAX : 410-997-9282	
3-7-06 DATE	S-94-16, P-94-25, F-95-63, WP-94-31
<i>J. Farrell</i> JAYKANT D. PAREKH #19148	DESIGNED BY : K.O.A.
	DRAWN BY : MD & KC
	PROJECT NO. : 08218
	DATE : MARCH 7, 2006
	SCALE : 1" = 30'
	DRAWING NO. 5 OF 10



STONE OUTLET SEDIMENT TRAP TABLE
EX. S.O.S.T. #1

DRAINAGE AREA (AC.)	2.7
*STORAGE REQUIRED (CF)	4,860
STORAGE PROVIDED (CF)	5,300
TOP BERM ELEVATION	395.0
CREST ELEVATION	394.0
BOTTOM ELEVATION	388.0
CLEAN OUT ELEVATION	391.0
DEPTH (FT.)	6.0
SIDE SLOPES	2:1
OUTLET LENGTH (FT.)	11

NOTE: THE CONSTRUCTION OF A HOME ON LOT 10 IS TO BE DELAYED UNTIL THE SEDIMENT CONTROL INSPECTOR APPROVES REMOVAL OF EXIST. S.O.S.T. #3.

BY THE DEVELOPER :

I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTIONS BY THE HOWARD SOIL CONSERVATION DISTRICT.

Mula Pappas 3/7/96
DEVELOPER DATE

BY THE ENGINEER :

I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

J. Garell 3.7.96
ENGINEER DATE

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEETS THE TECHNICAL REQUIREMENTS FOR SOIL EROSION AND SEDIMENT CONTROL.

J. M. Warfield 3/10/96
NATURAL RESOURCES CONSERVATION SERVICE DATE

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

John L. Robertson 3/11/96
HOWARD SOIL CONSERVATION DISTRICT DATE

APPROVED : HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.

James P. Rutter 3/29/96
DIRECTOR DATE

[Signature] 3/18/96
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

Jim Swinney 3/27/96
CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH DATE

DATE NO.	REVISION

OWNER / DEVELOPER
WILBEN LIMITED PARTNERSHIP
C/O ANDREW L. ISAACSON
9215 OVERLEA DRIVE
ROCKVILLE, MD 20850
301-650-7111

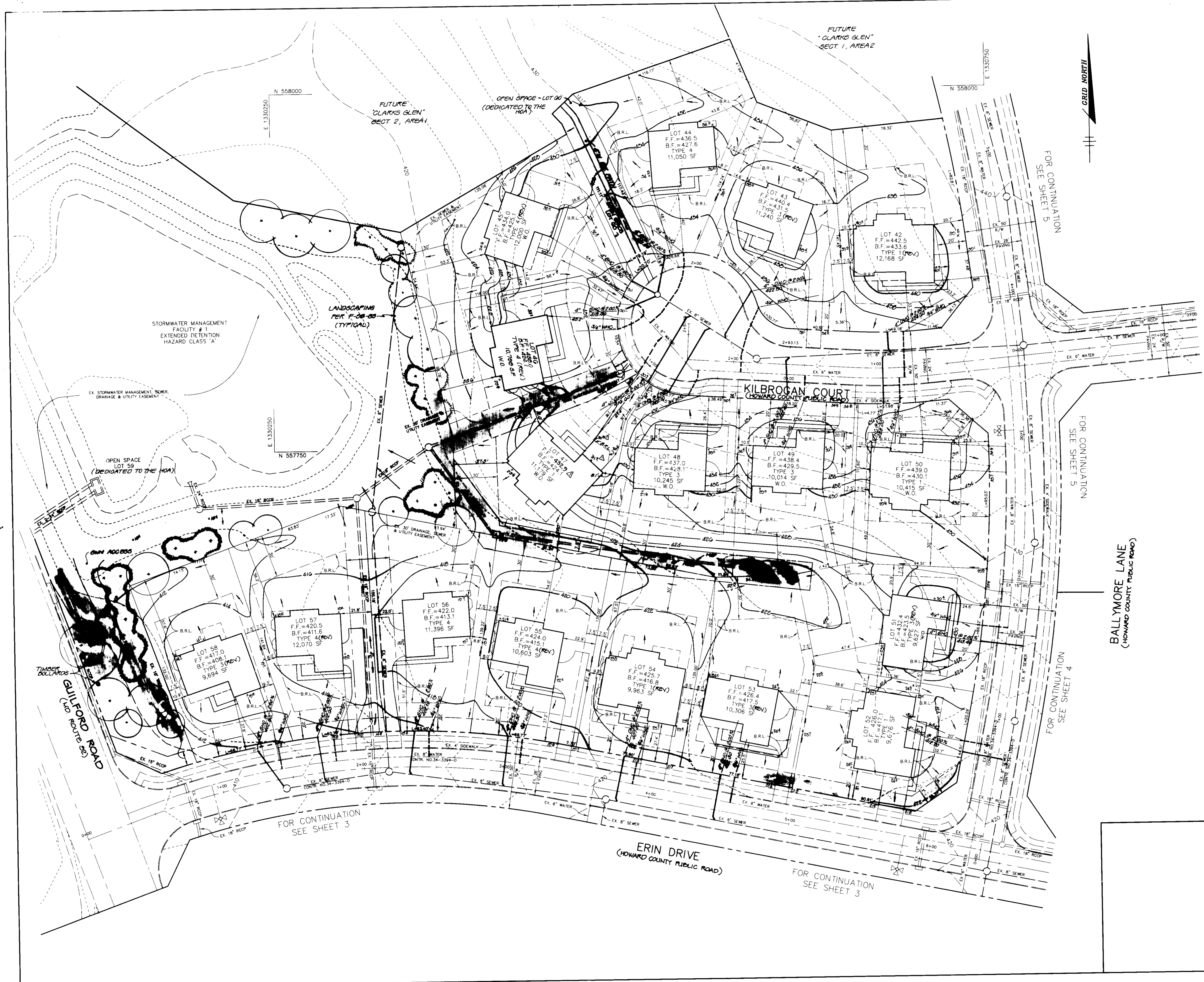
PROJECT **CLARKS GLEN SECTION 1 AREA 1**

AREA TAX MAP 35 PARCEL 205
5th ELECTION DISTRICT
HOWARD COUNTY, MD.

TITLE **GRADING AND SEDIMENT CONTROL PLAN**

RIEMER MUEGGE & ASSOCIATES, INC.
Planners • Engineers • Surveyors
8818 Centre Park Drive • Suite 200 • Columbia, MD 21045
410-997-8900 FAX : 410-997-9282

3.7.96 DATE
S-94-16, P-94-25, F-95-83, WP-94-31
DESIGNED BY: *KDA*
DRAWN BY: *MD/KRC*
PROJECT NO : 03218
DATE : MARCH 7, 1996
SCALE : 1" = 30'
J. Garell
JAYKANT D PAREKH #19148



TARA PLACE
(HOWARD COUNTY PUBLIC ROAD)

BALLMORE LANE
(HOWARD COUNTY PUBLIC ROAD)

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.
 DIRECTOR: *[Signature]* 3/22/96 DATE
 CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH: *[Signature]* 3/27/96 DATE

CHIEF, DEVELOPMENT ENGINEERING DIVISION: *[Signature]* 3/14/96 DATE

11/22/95 CHANGED FF EL. LOT 43 - MODIFIED 432 CONTOUR & DRIVEWAY SPOT ELEV. FOR DRAINAGE FLOW.
 DATE NO. REVISION

OWNER / DEVELOPER
 WILBEN LIMITED PARTNERSHIP
 C/O ANDREW J. ISAACSON
 9215 OVERLEA DRIVE
 ROCKVILLE, MD 20850
 301-650-7111

PROJECT
 CLARKS GLEN SECTION 1 AREA 1

AREA
 TAX MAP 35 PARCEL 205
 5th ELECTION DISTRICT
 HOWARD COUNTY, MD.

TITLE
 SITE DEVELOPMENT PLAN

RIEMER MUEGGE & ASSOCIATES, INC.
 Planners • Engineers • Surveyors
 8818 Centre Park Drive • Suite 200 • Columbia, MD 21045
 410-997-8900 FAX: 410-997-9282

3.7.96 DATE
 DESIGNED BY: RDA
 DRAWN BY: MD & KC
 PROJECT NO: 03218
 DATE: MARCH 7, 1996
 SCALE: 1" = 30'
 DRAWING NO. 2 OF 10
 JAYKANT D. PAREKH #19148
 SDP-96-22 HOOO/03218/BHTZ

TEMPORARY SEEDING NOTES

Apply to graded or cleared areas likely to be redisturbed where a short-term vegetative cover is needed.

Seeding Preparation: Loosen upper three inches of soil by raking, disking or other acceptable means before seeding, if not previously loosened.

Soil Amendments: Apply 600 lbs. per acre 10-10-10 fertilizer (14 lbs. per 1000 sq.ft.)

Seeding: For periods March 1 thru April 30 and from August 15 thru November 15, seed with 2-1/2 bushels per acre of annual ryegrass (3.2 lbs. per 1000 sq.ft.) For the period May 1 thru August 4, seed with 3 lbs. per acre of seeding legumes (0.07 lbs. per 1000 sq.ft.). For the period November 16 thru February 28, protect site by covering 2 tons per acre of well-anchored straw mulch and seed as soon as possible in the spring, or use sod.

Mulching: Apply 1-1/2 to 2 tons per acre (70 to 90 lbs. per 1000 sq.ft.) of untreated small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gal. per acre (5 gal. per 1000 sq.ft.) of emulsified asphalt on flat areas. On slopes, 8 ft. or higher, use 347 gal. per acre (8 gal. per 1000 sq.ft.) for anchoring.

Refer to the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for rate and methods not covered.

PERMANENT SEEDING NOTES

Apply to graded or cleared 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, disking 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. per 1000 sq.ft.) and 800 lbs. per acre 10-10-10 fertilizer (14 lbs. per 1000 sq.ft.) before seeding. Harrow or disc into upper three inches of soil. At time of seeding, apply 400 lbs. per acre 30-0-0 urea-form fertilizer (9 lbs. per 1000 sq.ft.)
- 2) Acceptable - Apply 2 tons per acre dolomitic limestone (92 lbs. per 1000 sq.ft.) and 1000 lbs. per acre 10-10-10 fertilizer (23 lbs. per 1000 sq.ft.) before seeding. Harrow or disc into upper three inches of soil.

Seeding: For the period March 1 thru April 30 and from August 1 thru October 15, seed with 60 lbs. per acre (1.4 lbs. per 1000 sq.ft.) of Kentucky 31 Tall Fescue. For the period May 1 thru July 31, seed with 60 lbs. Kentucky 31 Tall Fescue per acre and 2 lbs. per acre (0.05 lbs. per 1000 sq.ft.) of seeding legumes. During the period October 16 thru February 28, protect site by one of the following options:

- 1) 2 tons per acre of well-anchored straw mulch and seed as soon as possible in the spring.
- 2) Use sod.
- 3) Seed with 60 lbs. per acre Kentucky 31 Tall Fescue and mulch with 2 tons per acre well-anchored straw.

Mulching: Apply 1-1/2 to 2 tons per acre (70 to 90 lbs. per 1000 sq.ft.) of untreated small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gal. per acre (5 gal. per 1000 sq.ft.) of emulsified asphalt on flat areas. On slopes, 8 ft. or higher, use 347 gal. per acre (8 gal. per 1000 sq.ft.) for anchoring.

Maintenance: Inspect all seeded areas and make needed repairs, replacements and reseedings.

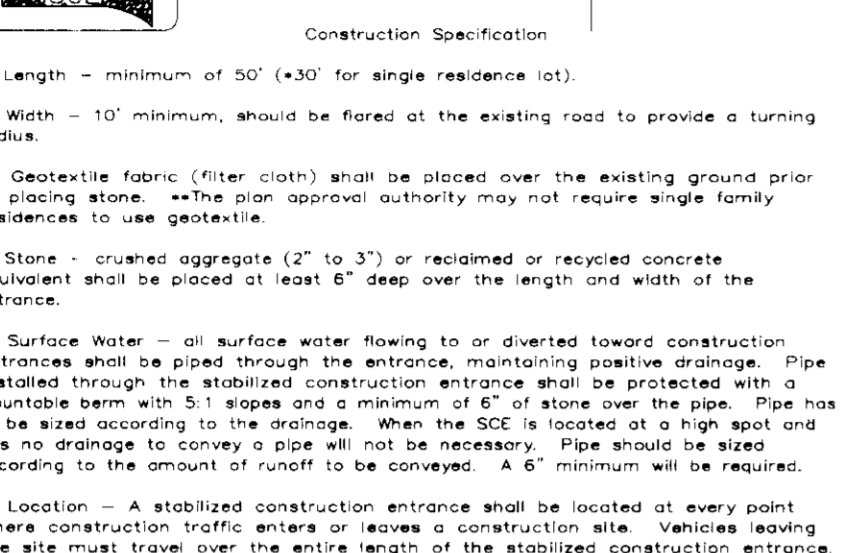
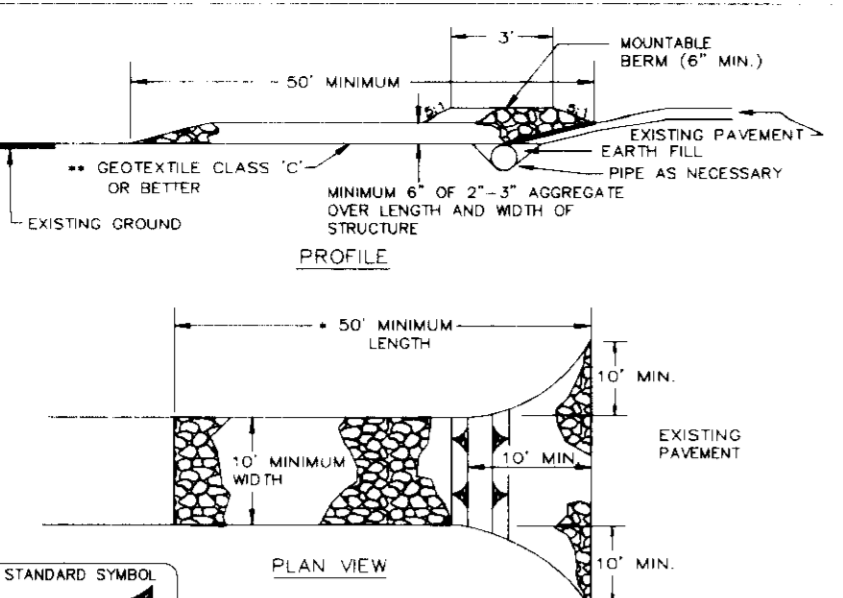
SEDIMENT CONTROL NOTES

1. A minimum of 24 hours notice must be given to the Howard County Office of Inspections and Permits prior to the start of any construction (892-2437).
2. All vegetative and structural practices are to be installed according to the provisions of the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL AND EROSION CONTROL.
3. Following initial soil disturbance or redisturbances, permanent or temporary stabilization shall be completed within (a) 7 calendar days for all perimeter sediment control structures, ditches, perimeter slopes and all slopes greater than 3:1, 3:14, 4:6, or to other disturbed or graded areas on the project site.
4. All sediment traps/basins shown must be fenced and warning signs posted around the perimeter in accordance with Vol. 1, Chapter 12, of the HOWARD COUNTY DESIGN MANUAL, Storm Drainage.
5. All disturbed areas must be stabilized within the time period specified above in accordance with the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL AND EROSION CONTROL for permanent seedings (Sec. 50), sod (Sec. 54), temporary seeding (Sec. 50) and mulching (Sec. 52). Temporary stabilization with mulch alone can only be done when recommended seedings do not allow for proper germination and establishment of grasses.
6. 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.
7. Site Analysis:

Total Area of Site	35.7 acres
Area Disturbed	12.4 acres
Area to be seeded or sodded	4.3 acres
Area to be vegetatively stabilized	11.1 acres
Total Cut	10,970 cu yds.
Total Fill	10,045 cu yds.

NOTE: 1081 CU YD OF SOIL TO BE USED IN DEC. 2, '96
8. Any sediment control practice which is disturbed by grading activity for placement of utilities must be repaired on the same day of disturbance.
9. Additional sediment controls must be provided, if deemed necessary by the Howard County Department of Public Works Sediment Control Inspector.
10. Site grading will begin only after all perimeter sediment control measures have been installed and are in a functioning condition.
11. Sediment will be removed from traps when its depth reaches clean out elevation shown on the plans.
12. Cut and fill quantities provided under site analysis do not represent bid quantities. These quantities do not distinguish between topsoil, structural fill or embankment material, nor do they reflect consideration of undercutting or removal of unstable material. The contractor shall fortify himself with site conditions which may affect the work.
13. 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 grading or grading inspection approval may be obtained without this approval by the inspection agency is made.

DETAIL 24 STABILIZED CONSTRUCTION ENTRANCE



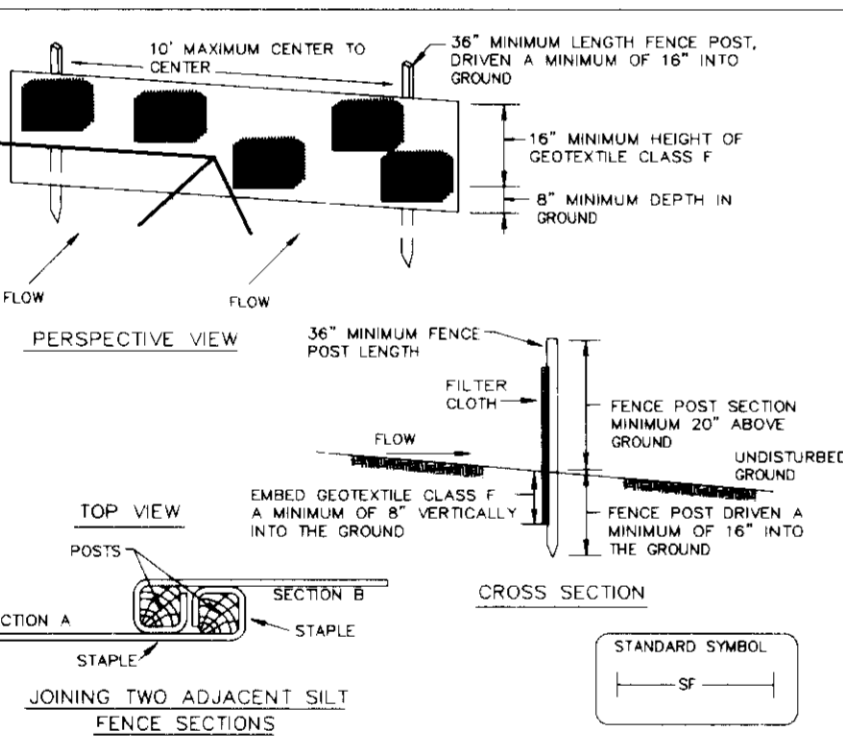
U.S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

MARYLAND DEPARTMENT OF ENVIRONMENT
WATER MANAGEMENT ADMINISTRATION

STABILIZED CONSTRUCTION ENTRANCE

- Construction Specification
1. Length - minimum of 50' (+30' for 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. ** The plan approval authority may not require single family residences to use geotextile.
 4. Stone - crushed aggregate (2" to 3") or reclaimed or recycled concrete equipment 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. Pipe installed through the stabilized construction entrance shall be protected with a mountable beam with 5" edges and a minimum of 6" of stone over the pipe. Pipe has to be sized according to the drainage. When the SCE is located at a high spot and has no drainage to convey a pipe will not be necessary. Pipe should be sized according to the amount of runoff to be conveyed. A 6" minimum will be required.
 6. Location - A stabilized construction entrance shall be located at every point where construction traffic enters or leaves a construction site. Vehicles leaving the site must travel over the entire length of the stabilized construction entrance.
- U.S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
- MARYLAND DEPARTMENT OF ENVIRONMENT
WATER MANAGEMENT ADMINISTRATION

DETAIL 22 - SILT FENCE



Construction Specifications

1. Fence posts shall be a minimum of 36" long driven 16" minimum into the ground. Wood posts shall be 1 1/2" x 1 1/2" square (minimum) cut, or 1 3/4" diameter (minimum) round and shall be of sound quality hardwood. Steel posts will be standard I or H section weighting not less than 100 pounds per linear foot.
2. Geotextile shall be fastened securely to each fence post with wire ties or staples at top and mid-section and shall meet the following requirements for Geotextile Class F:

Tensile Strength	50 lbs/in (min)	Test: MSMT 509
Tensile Modulus	20 lbs/in (min)	Test: MSMT 509
Flow Rate	0.3 gal/19 minute (max)	Test: MSMT 322
Filtering Efficiency	75% (min)	Test: MSMT 322
3. Where ends of geotextile fabric come together, they shall be overlapped, folded and stapled to prevent sediment bypass.
4. Silt Fence shall be inspected after each rainfall event and maintained when bulges occur or when sediment accumulation reaches 50% of the fabric height.

U.S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

MARYLAND DEPARTMENT OF ENVIRONMENT
WATER MANAGEMENT ADMINISTRATION

SILT FENCE

Silt Fence Design Criteria

Slope Steepness	(Maximum) Slope Length	(Maximum) Silt Fence Length
Flatter than 5:1	unlimited	unlimited
5:1 to 10:1	125 feet	1,000 feet
10:1 to 5:1	100 feet	750 feet
5:1 to 3:1	60 feet	500 feet
3:1 to 2:1	40 feet	250 feet
2:1 and steeper	20 feet	125 feet

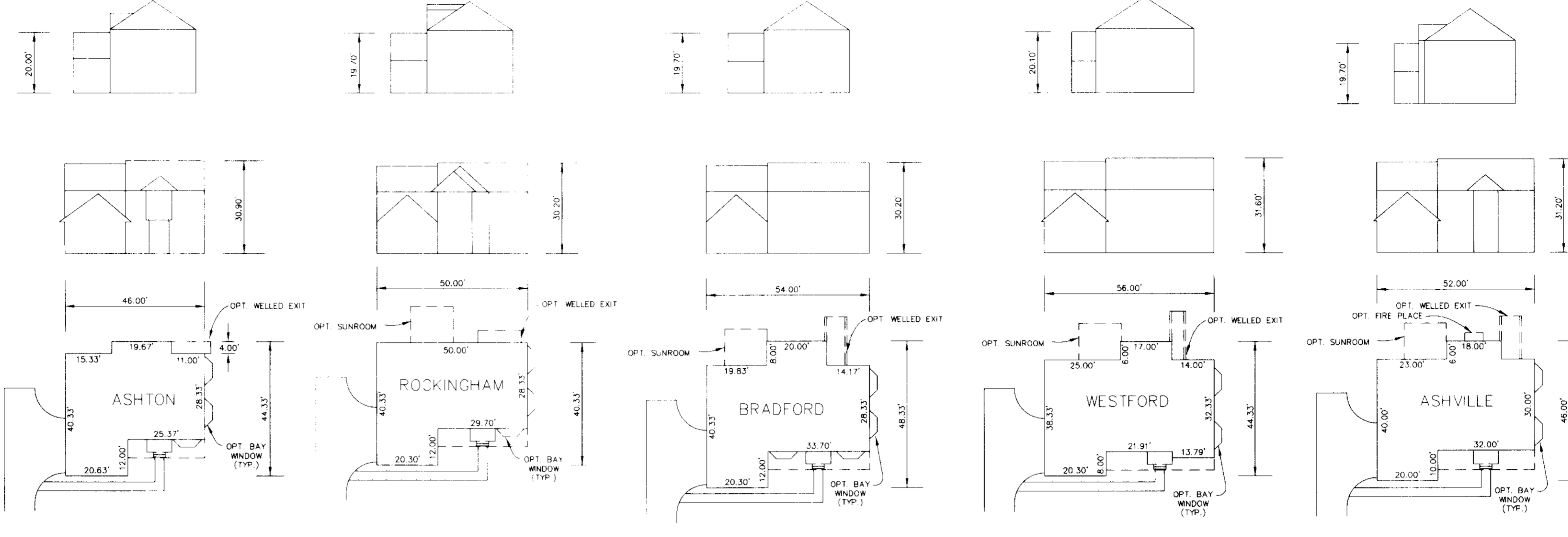
Note: In areas of less than 2% slope and sandy soils (USDA general classification: Very fine to fine sand, silty sand, silty clay) maximum slope length and silt fence length will be unlimited. In these areas a silt fence may be the only perimeter control required.

U.S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

MARYLAND DEPARTMENT OF ENVIRONMENT
WATER MANAGEMENT ADMINISTRATION

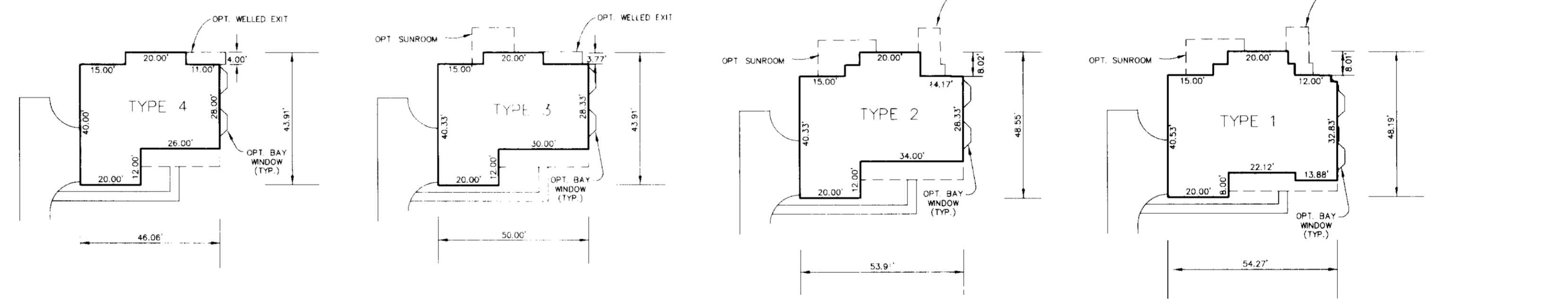
SIDE VIEW

FRONT VIEW



HOUSE TYPES

SCALE: 1"=30'



GENERIC BLOCKS

SCALE: 1"=30'

SEQUENCE OF CONSTRUCTION

1. OBTAIN GRADING PERMITS FOR SINGLE FAMILY HOME CONSTRUCTION. (3 WEEKS)
2. INSTALL AND RELOCATE ANY SEDIMENT CONTROL DEVICES AS SHOWN ON THESE PLANS, REPAIRING ALL EXISTING SEDIMENT CONTROL MEASURES TO REMAIN FROM '89-'93. (1 WEEK PER LOT)
3. ROUGH GRADE AND INSTALL RETAINING WALLS ON LOT BY LOT BASIS. (3 MONTHS PER HOME)
4. CONSTRUCT SINGLE FAMILY HOMES. AS NEEDED
5. REPLACE AND/OR REPAIR ANY AND ALL SEDIMENT CONTROL DEVICES THAT BECOME DYSFUNCTIONAL DURING CONSTRUCTION. (1 WEEK)
6. AS CONSTRUCTION IS COMPLETED ON EACH LOT, STABILIZE ALL DISTURBED AREAS AS PER THE PERMANENT SEEDING NOTES.
7. WITH THE APPROVAL OF THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR, REMOVE SEDIMENT CONTROL MEASURES AS CONSTRUCTION PROGRESSES.

HOUSE TYPE SUMMARY CHART

GENERIC BLOCK	HOUSE TYPE				
	WESTFORD	BRADFORD	ASHVILLE	ROCKINGHAM	ASHTON II
1	ALL OPTIONS FIT	ALL OPTIONS FIT	ALL OPTIONS FIT	ALL OPTIONS FIT	ALL OPTIONS FIT
2	BLDG. DOES NOT FIT	ALL OPTIONS FIT	ALL OPTIONS FIT	ALL OPTIONS FIT	ALL OPTIONS FIT
3	BLDG. DOES NOT FIT	BLDG. DOES NOT FIT	BLDG. DOES NOT FIT	ALL OPTIONS FIT	ALL OPTIONS FIT
4	BLDG. DOES NOT FIT	BLDG. DOES NOT FIT	BLDG. DOES NOT FIT	BLDG. DOES NOT FIT	ALL OPTIONS FIT

BY THE DEVELOPER :

I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTIONS BY THE HOWARD SOIL CONSERVATION DISTRICT.

Muhammad Hassan 3/7/96
DEVELOPER DATE

BY THE ENGINEER :

I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

J. Farrell 3.7.96
ENGINEER DATE

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SOIL EROSION AND SEDIMENT CONTROL.

J. A. Wainfield 3/11/96
NATURAL RESOURCES CONSERVATION SERVICE DATE

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

John R. Polster 3/14/96
HOWARD SOIL CONSERVATION DISTRICT DATE

APPROVED : HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.

James Butler 3/29/96
DIRECTOR DATE

John C. Schief 3/11/96
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

Alma Zimmerman 3/27/96
CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH DATE

DATE / NO. / DEVELOPER / REVISION

OWNER / DEVELOPER
WILBEN LIMITED PARTNERSHIP
C/O ANDREW L. ISAACSON
5450 WHITELY PARK
TERRACE # 410
BETHESDA, MD 20814
301-530-1123

PROJECT
CLARKS GLEN
SECTION 1- AREA 1
LOTS 1-58

AREA
TAX MAP 35 PARCEL 205
5th ELECTION DISTRICT
HOWARD COUNTY, MD.

TITLE GRADING AND SEDIMENT CONTROL NOTES AND DETAILS

RIEMER MUEGGE & ASSOCIATES, INC.
Planners • Engineers • Surveyors
8818 Centre Park Drive • Suite 200 • Columbia, MD 21045
410-997-8900 FAX : 410-997-8282

3-7-96
DATE

S-94-16, P-94-25,
F-95-83, WP-94-31

DESIGNED BY : J.T.D.

DRAWN BY : B.L.W.

PROJECT NO. : HOCO 93218
SDP10.DWG

DATE : MARCH 7, 1996

SCALE : AS SHOWN

DRAWING NO. 10 OF 10

J. Farrell
JAYKANT D. PAREKH #19148