

VICINITY MAP
SCALE = 1" = 2000'

LOT NO.	STREET ADDRESS
3	2404 HANNON COURT
4	2408 HANNON COURT
5	2412 HANNON COURT
6	2416 HANNON COURT
7	2420 HANNON COURT
8	2424 HANNON COURT
9	2428 HANNON COURT
10	2432 HANNON COURT
11	2436 HANNON COURT
12	2440 HANNON COURT
13	2444 HANNON COURT
14	2448 HANNON COURT
15	2452 HANNON COURT
16	2412 MCKENZIE ROAD
17	2408 MCKENZIE ROAD
18	2404 MCKENZIE ROAD
19	2400 MCKENZIE ROAD
20	2396 MCKENZIE ROAD
21	2392 MCKENZIE ROAD
22	2388 MCKENZIE ROAD
23	2384 MCKENZIE ROAD
24	2380 MCKENZIE ROAD
25	2376 MCKENZIE ROAD
26	2372 MCKENZIE ROAD
27	2368 MCKENZIE ROAD
28	2364 MCKENZIE ROAD
29	2360 MCKENZIE ROAD
30	2356 MCKENZIE ROAD

GENERAL NOTES

1. THIS PLAN IS SUBMITTED ON TAX MAP 7-17-87 PARCEL 172 310 2. PLANNING REFERENCE F-87-107. FINAL PLAN REFERENCE F-87-107. STATE PLANNING REFERENCE F-87-107. (RESIDENTIAL) (SINGLE)

2. MINIMUM AREA FROM 1980 TO 2000 S.F. FROM 2000 TO 4000 S.F. FROM 4000 TO 6000 S.F. FROM 6000 TO 8000 S.F. FROM 8000 TO 10000 S.F. FROM 10000 TO 12000 S.F. FROM 12000 TO 14000 S.F. FROM 14000 TO 16000 S.F. FROM 16000 TO 18000 S.F. FROM 18000 TO 20000 S.F.

3. TYPICAL HOUSE PLAN SCHEMATIC AND DETAILS SEDIMENT CONTROL NOTES AND INFORMATION CAN BE FOUND ON SHEET 4 OF 4.

4. SITE ANALYSIS AT THE NUMBER OF LOTS 31. E. AND NUMBER OF LOTS 27.

5. THE DEVELOPER SHALL BE RESPONSIBLE FOR THE REMOVAL OF EXISTING SEDIMENT TRAP #3 UNDER G.P.# 87-20 TO BE REMOVED UNDER THIS PLAN.

6. THE DEVELOPER SHALL BE RESPONSIBLE FOR THE REMOVAL OF EXISTING SEDIMENT TRAP #5 UNDER G.P.# 87-20 TO BE REMOVED UNDER THIS PLAN.

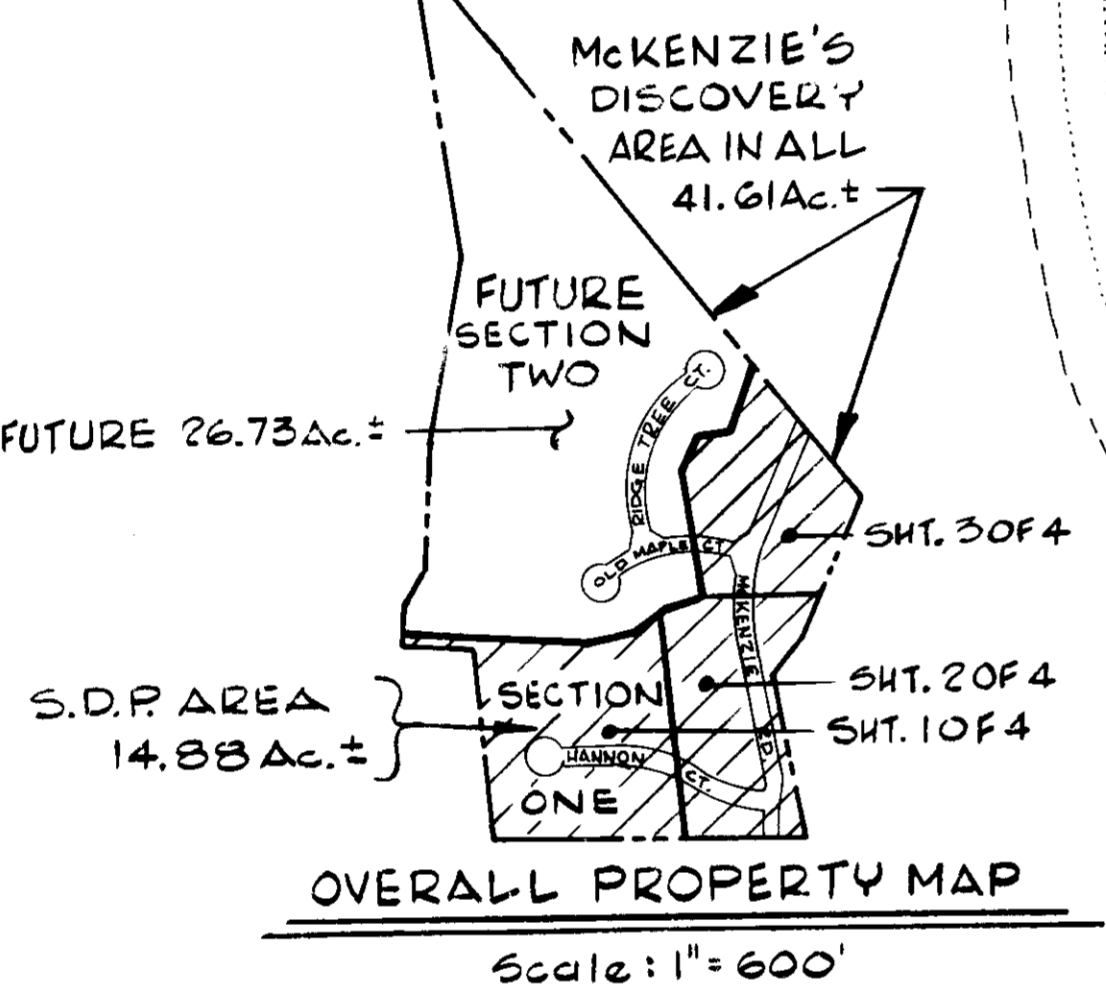
7. THE DEVELOPER SHALL BE RESPONSIBLE FOR THE REMOVAL OF EXISTING SEDIMENT TRAP #6 UNDER G.P.# 87-20 TO BE REMOVED UNDER THIS PLAN.

8. THE DEVELOPER SHALL BE RESPONSIBLE FOR THE REMOVAL OF EXISTING SEDIMENT TRAP #7 UNDER G.P.# 87-20 TO BE REMOVED UNDER THIS PLAN.

9. THE DEVELOPER SHALL BE RESPONSIBLE FOR THE REMOVAL OF EXISTING SEDIMENT TRAP #8 UNDER G.P.# 87-20 TO BE REMOVED UNDER THIS PLAN.

10. EXISTING TOPOGRAPHY, ELEVATIONS, AND PROFILES BY POTOMAC SURVEYS.

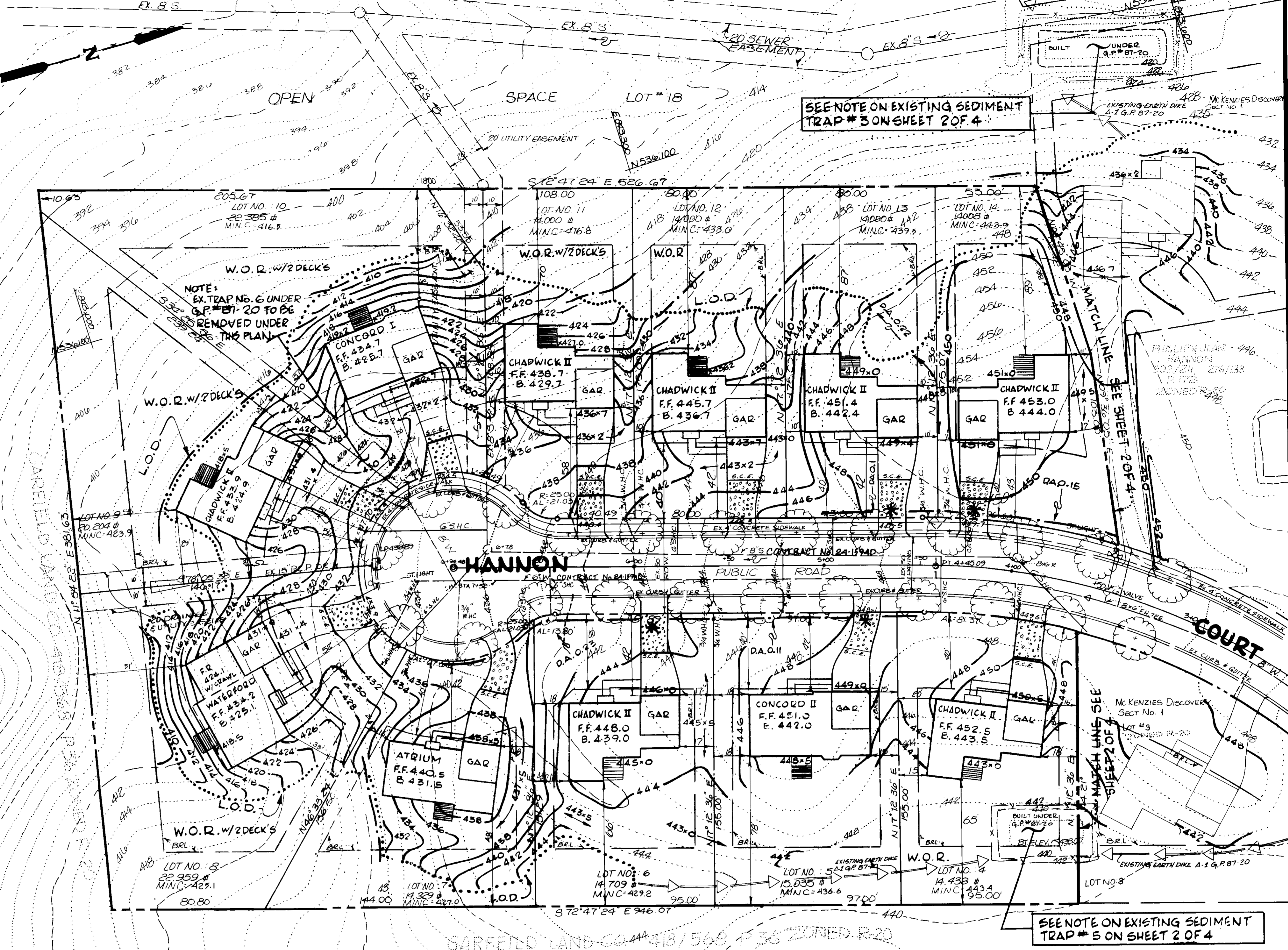
11. SOIL CERTIFICATION ARE RECOMMENDED FOR LOTS 8, 9, 10, 11, 12 AND 15 SHOWING VERIFICATION BY A SOILS ENGINEER OF 95% COMPACTION OF FILL OR INSTALL SUB FOUNDATION AND WALLS.



- LEGEND: Sheet #1**
- * S.C.E. To Have Mountable Berm
 - Silt Fence
 - L.O.D. Limit Of Site Disturbance And Drainage Area Limit
 - Existing Earth Dike
 - W.O.R. Walk-Out From Basement
 - HUNG SEWER - Sanitary Service from First Floor Up
 - LOCATION OF PROPOSED WOODEN DECK

LANDSCAPE LEGEND:
STREET TREES: F-87-107
2-1/2" MIN. CALIPER MAPLES OR EQUAL PLANTED @ 40' O.C. (BY THE OWNER, TALLESS CONSTRUCTION CO.)

OWNER & DEVELOPER:
WINCHESTER HOMES
6305 IVY LANE
SUITE 700
GREENBELT MD 20770



REVISIONS

NO.	DATE	COMMENTS	BY
1	10/6/89	LOTS 17, 19, 20 & 23	DGH

SEWER USE CONN. INV. @ PROP. LINE

LOT NO.	ELEV.	LOT NO.	ELEV.
3	437.34	10	412.40
4	432.78	11	413.22
5	428.12	12	429.75
6	424.68	13	424.22
7	421.67	14	425.72
8	421.90		

SITE DEVELOPMENT PLAN
MCKENZIE'S DISCOVERY
SECTION ONE, LOTS: 3-17 & 19-30
2ND ELECTION DIST. HOWARD CO., MD.

APPROVED
DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION
HOWARD COUNTY, MARYLAND
DATE: 10-3-87

ENGINEER'S CERTIFICATE
I HEREBY 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.

Signature: [Signature]
DATE: 8/24/87

DEVELOPER'S CERTIFICATE
"I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND PLAN FOR EROSION AND SEDIMENT CONTROL AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY."

Signature: [Signature]
DATE: 8/24/87

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS
Signature: [Signature]
DATE: 9-1-87

APPROVED:
Signature: [Signature]
DATE: 9/1/87

APPROVED: OFFICE OF PLANNING AND ZONING
Signature: [Signature]
DATE: 9-11-87

APPROVED: DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION
Signature: [Signature]
DATE: 9-8-87

APPROVED: DEPARTMENT OF PUBLIC WORKS FOR PUBLIC WATER & SEWER AND STORM DRAINAGE SYSTEMS AND ROADS.
Signature: [Signature]
DATE: 9/6/87

CHIEF, BUREAU OF ENGINEERING
Signature: [Signature]
DATE: 9-2-87

JOHN E. HARMS JR. AND ASSOCIATES INC.
CONSULTING ENGINEERS - ARCHITECTS - SURVEYORS
9030 RED BRANCH ROAD, SUITE 100, COLUMBIA, MARYLAND 21045, TELEPHONE (301) 740-5200

DESIGNED BY: J.C.S.
DRAWN BY: R.C.C. & P.T.
CHECKED BY: P.J.
DATE: 8-24-87
SCALE: 1" = 30'
W.O. NO. 04-86-002E

NO.	REVISIONS	DATE
1	Rev. hse. & grd. lot 20 by Clark, FineRock & Sackett, Inc.	12-18-91
2	Rev. hse. & grd. lot 17 by Clark, FineRock & Sackett, Inc.	1-12-92
3	Rev. hse. & grd. lot 19 by Clark, FineRock & Sackett, Inc.	3-23-92

EXISTING SEDIMENT TRAP # 3

As Shown On Mass Grading Plan No. G.P. 87-20 To Be Used In Conjunction With This Site Development Plan As Originally Designed Below.

Type Of Trap	Ex. Stone Outlet Drainage Area
Stor. Rea.	4.10 Ac.
Stor. Pro.	275 C.Y.
Stor. El.	278 C.Y.
Bot. El.	423.0
Bot. El.	418.0
Dimensions (FT.)	
© Stor. El.	30' x 30'
© Bot. El.	10' x 60'
Stor. Depth (FT.)	5.0
Cleanout El. (FT.)	421.5
Crest El. (FT.)	424.0
Weir Length (FT.)	17.0

D.A. AREA NOW WITHIN THIS PLAN 3.77 Ac., STOR. REQ. = 252 C.Y.

EXISTING SEDIMENT TRAP # 5

As Shown On Mass Grading Plan No. G.P. 87-20 To Be Used In Conjunction With This Site Development Plan As Originally Designed Below.

Type Of Trap	Ex. Stone Outlet Drainage Area
Stor. Rea.	1.35 Ac.
Stor. Pro.	91 C.Y.
Stor. El.	97 C.Y.
Bot. El.	441.0
Bot. El.	438.0
Dimensions (FT.)	
© Stor. El.	50' x 25'
© Bot. El.	13' x 38'
Stor. Depth (FT.)	3.0
Cleanout El. (FT.)	439.5
Crest El. (FT.)	442.0
Weir Length (FT.)	6.0

D.A. AREA NOW WITHIN THIS PLAN 0.84 Ac., STOR. REQ. = 56 C.Y.

John S. 3/12/92
 For Revision to Lot 20 by Clark, FineRock & Sackett dated 12/18/91 only. And for Revision to Lot 17 by Clark, FineRock & Sackett dated 1/12/92 only. And for Revision to Lot 19 by Clark, FineRock & Sackett dated 3/23/92 only.

- LEGEND: Sheet # 2**
- * S.C.E. To Have Mountable Berm
 - Silt Fence
 - Limit Of Site Disturbance And Drainage Area Limit
 - ◀ Existing Earth Dike
 - W.O.R. Walk-Out From Basmt.
 - HUNG SEWER - Sanitary Service From First Floor Up.
 - LOCATION OF PROPOSED WOODEN DECK

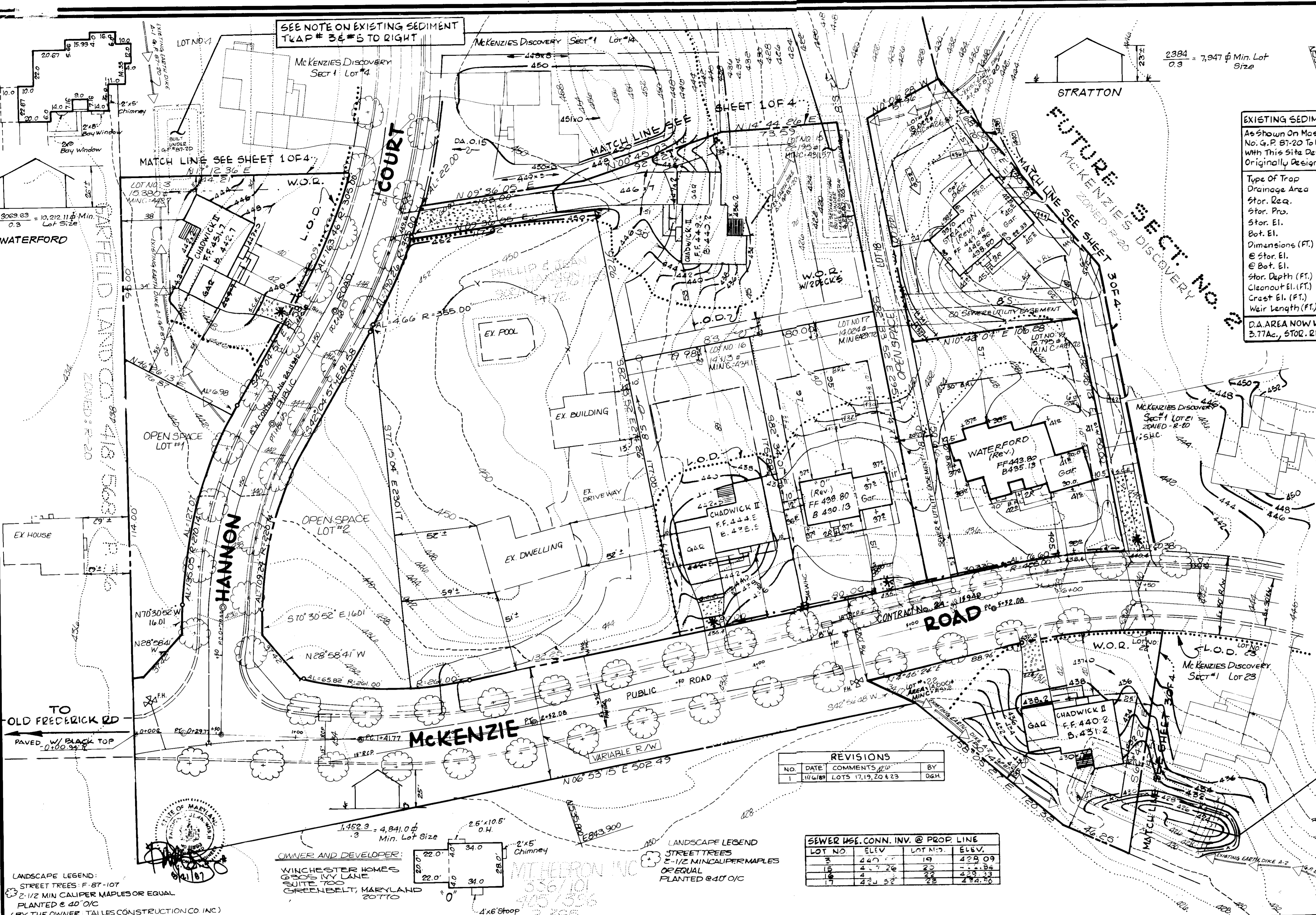
EXISTING SEDIMENT TRAP # 4
 See Sheet 3 of 4 To Modify Existing Trap Size.

REVISIONS

NO.	DATE	COMMENTS	BY
1	11/16/89	LOTS 17,19,20 & 23	DGH

SEWER USE, CONN. INV. @ PROP. LINE

LOT NO.	ELEV.	LOT NO.	ELEV.
3	447.1	19	428.09
15	437.26	23	438.84
18	437.26	22	433.33
17	424.52	25	424.52



APPROVED
 DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION
 HOWARD COUNTY, MARYLAND
 DATE: 6-3-87

ENGINEER'S CERTIFICATE
 I HEREBY 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.

DATE: 6/21/87

DEVELOPER'S CERTIFICATE
 I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND PLAN FOR EROSION AND SEDIMENT CONTROL AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF NATURAL RESOURCES 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.

DATE: 6/21/87

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS

DATE: 9-1-87

DATE: 9/1/87

APPROVED: OFFICE OF PLANNING AND ZONING

DATE: 9-11-87

DATE: 9-8-87

APPROVED: DEPARTMENT OF PUBLIC WORKS FOR PUBLIC WATER & SEWER AND STORM DRAINAGE SYSTEMS AND ROADS.

DATE: 9/3/87

DATE: 9-2-87

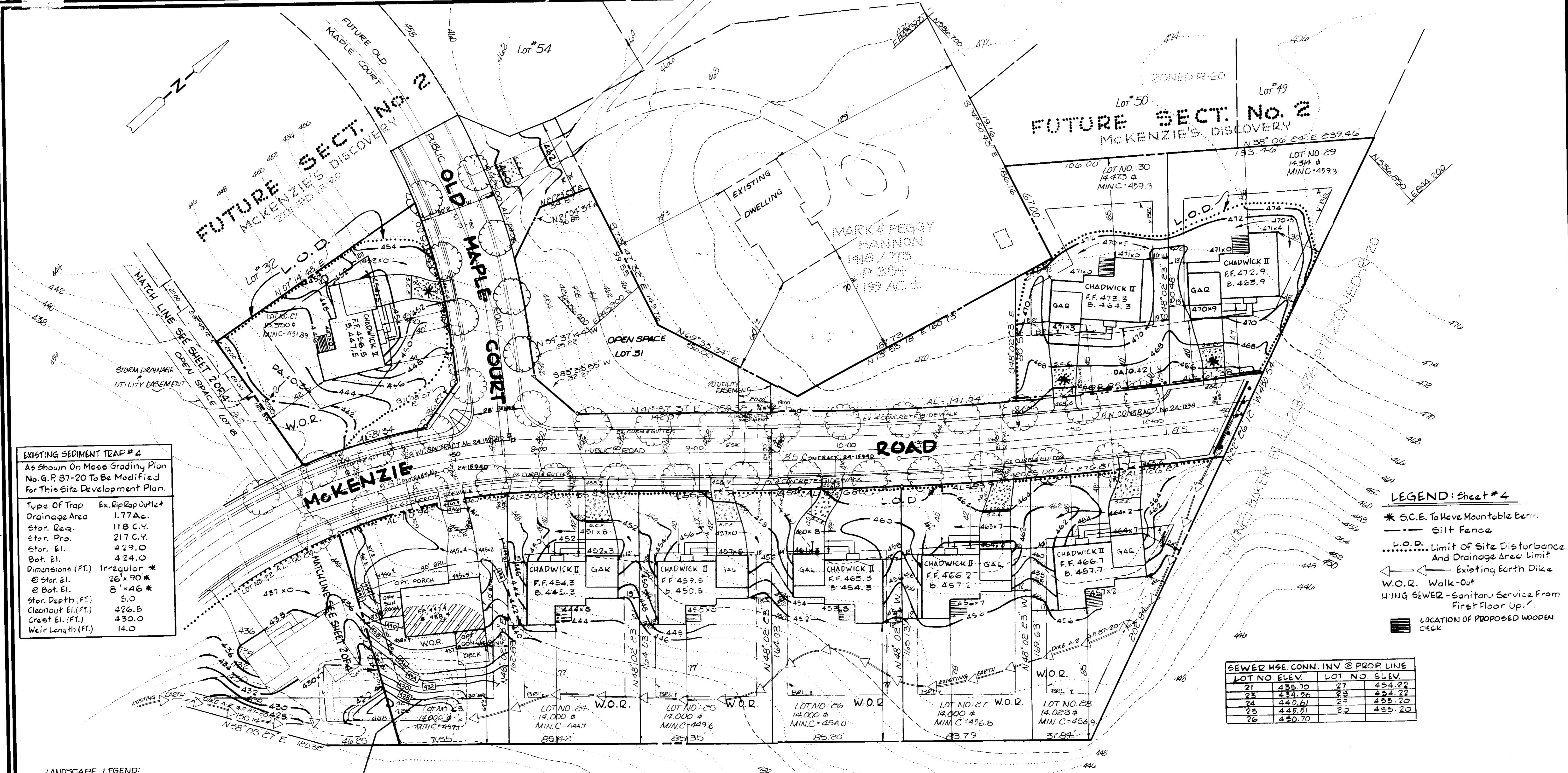
SITE DEVELOPMENT PLAN
McKENZIE'S DISCOVERY
 SECTION ONE, LOTS: 3-17 & 19-30
 2ND ELECTION DIST. HOWARD CO., MD.

JOHN E. HARMS JR. AND ASSOCIATES INC.
 CONSULTING ENGINEERS - ARCHITECTS - SURVEYORS

8030 RED BRANCH ROAD, SUITE 100, COLUMBIA, MARYLAND 21045, TELEPHONE (301) 740-5200

DESIGNED BY: J.C.S.
 DRAWN BY: E.D.C. & R.C.T.
 CHECKED BY: P.J.
 DATE: 8-24-87
 SCALE: 1" = 30'
 W.O. NO. 04-88-002E

SHEET 2 OF 4



EXISTING SEDIMENT TRAP # 2
As Shown On Mass Grading Plan No. G.P. 87-20 To Be Modified for This Site Development Plan.

Type Of Trap	Ex. Riprap Outlet
Drainage Area	1.77 Ac.
Star. Req.	118 C.Y.
Star. Pro.	217 C.Y.
Star. El.	429.0
Bot. El.	424.0
Dimensions (FT.)	Irregular *
@ Star. El.	26' x 90'
@ Bot. El.	8' x 46'
Star. Depth (FT.)	5.0
Cleanout El. (FT.)	426.5
Crest El. (FT.)	430.0
Weir Length (FT.)	14.0

- LEGEND: Sheet # 4**
- * S.C.E. To Have Mountable Barrier
 - Silt Fence
 - L.O.D. Limit of Site Disturbance And Drainage Area Limit
 - Existing Earth Dike
 - W.O.R. Walk-Out
 - W.I.N.G. SEWER - Sanitary Service From First Floor Up
 - LOCATION OF PROPOSED WOODEN DECK

SEWER USE CONN. INV. @ PROP. LINE

LOT NO.	ELEV.	LOT NO.	ELEV.
21	435.70	27	454.22
22	434.26	28	454.22
24	440.61	29	455.20
25	445.51	30	455.20
26	450.70		

REVISIONS

NO.	DATE	COMMENTS	BY
1	11/6/87	LOTS 17, 19, 20 & 23	QGH

LANDSCAPE LEGEND:
STREET TREES: F-87-107
2-1/2" MIN. CALIPER MAPLES OR EQUAL
PLANTED @ 40' O.C.
(BY THE OWNER - TALLES CONSTRUCTION CO. INC.)

OWNER AND DEVELOPER:
WINCHESTER HOMES
6225 IVY LANE
SUITE 700
GREENBELT, MARYLAND
20770



EXISTING SEDIMENT TRAP # 4
See Note Above

APPROVED
DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION
HOWARD COUNTY, MARYLAND
DATE: 6-3-87

ENGINEER'S CERTIFICATE
I HEREBY 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.

Signature: [Signature] DATE: 9/21/87

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Signature: [Signature] DATE: 9/24/87

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS

Signature: [Signature] DATE: 9-1-87
U.S. SOIL CONSERVATION SERVICE

Signature: [Signature] DATE: 9/1/87
HOWARD SOIL CONSERVATION DISTRICT

APPROVED: OFFICE OF PLANNING AND ZONING

Signature: [Signature] DATE: 9/1/87
PLANNING DIRECTOR

Signature: [Signature] DATE: 9/8/87
CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION

APPROVED: DEPARTMENT OF PUBLIC WORKS FOR PUBLIC WATER & SEWER AND STORM DRAINAGE SYSTEMS AND ROADS.

Signature: [Signature] DATE: 9/3/87
DIRECTOR, PUBLIC WORKS

Signature: [Signature] DATE: 9-2-87
CHIEF, BUREAU OF ENGINEERING

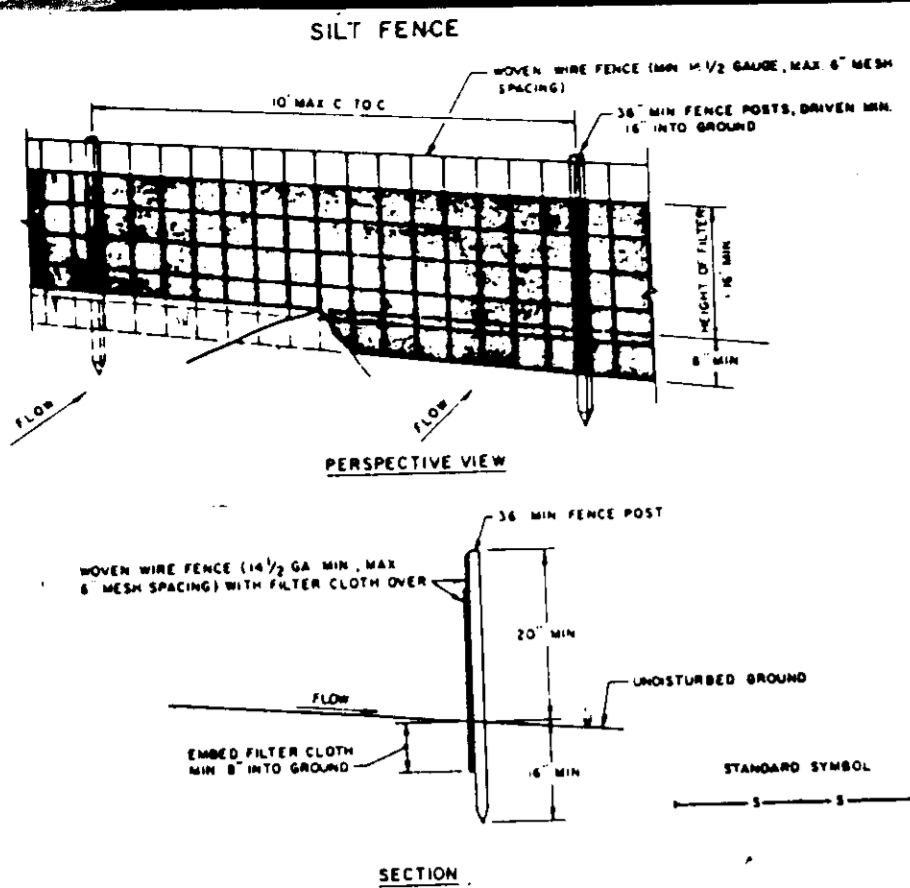
Signature: [Signature] DATE: 9-2-87

SITE DEVELOPMENT PLAN
McKENZIE'S DISCOVERY
SECTION ONE, LOTS: 3-17 & 19-30
2ND ELECTION DIST. HOWARD CO., MD.

JOHN E. HARMS JR. AND ASSOCIATES INC.
CONSULTING ENGINEERS - ARCHITECTS - SURVEYORS
9030 RED BRANCH ROAD COLUMBIA, MARYLAND 21045 SUITE 100 TELEPHONE (301) 740-5200

DESIGNED BY: J.C.S.
DRAWN BY: E.D.C. & R.C.T.
CHECKED BY: P.J.
DATE: 8-24-87
SCALE: 1" = 30'
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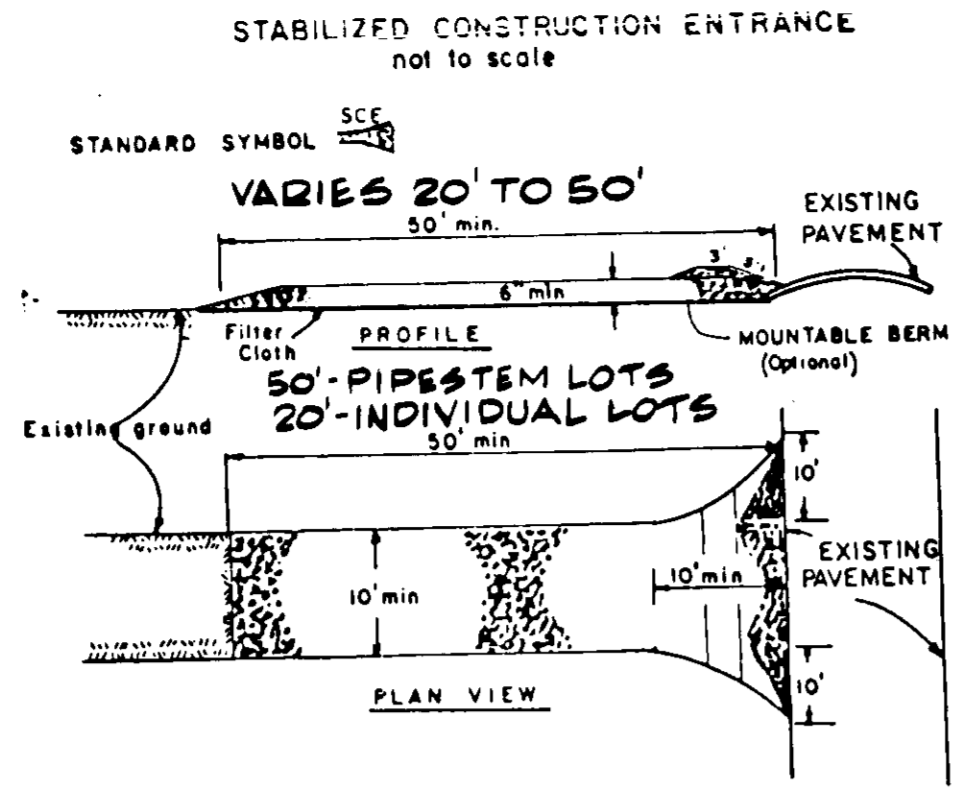
3 SHEET OF 4



CONSTRUCTION NOTES FOR FABRICATED SILT FENCE

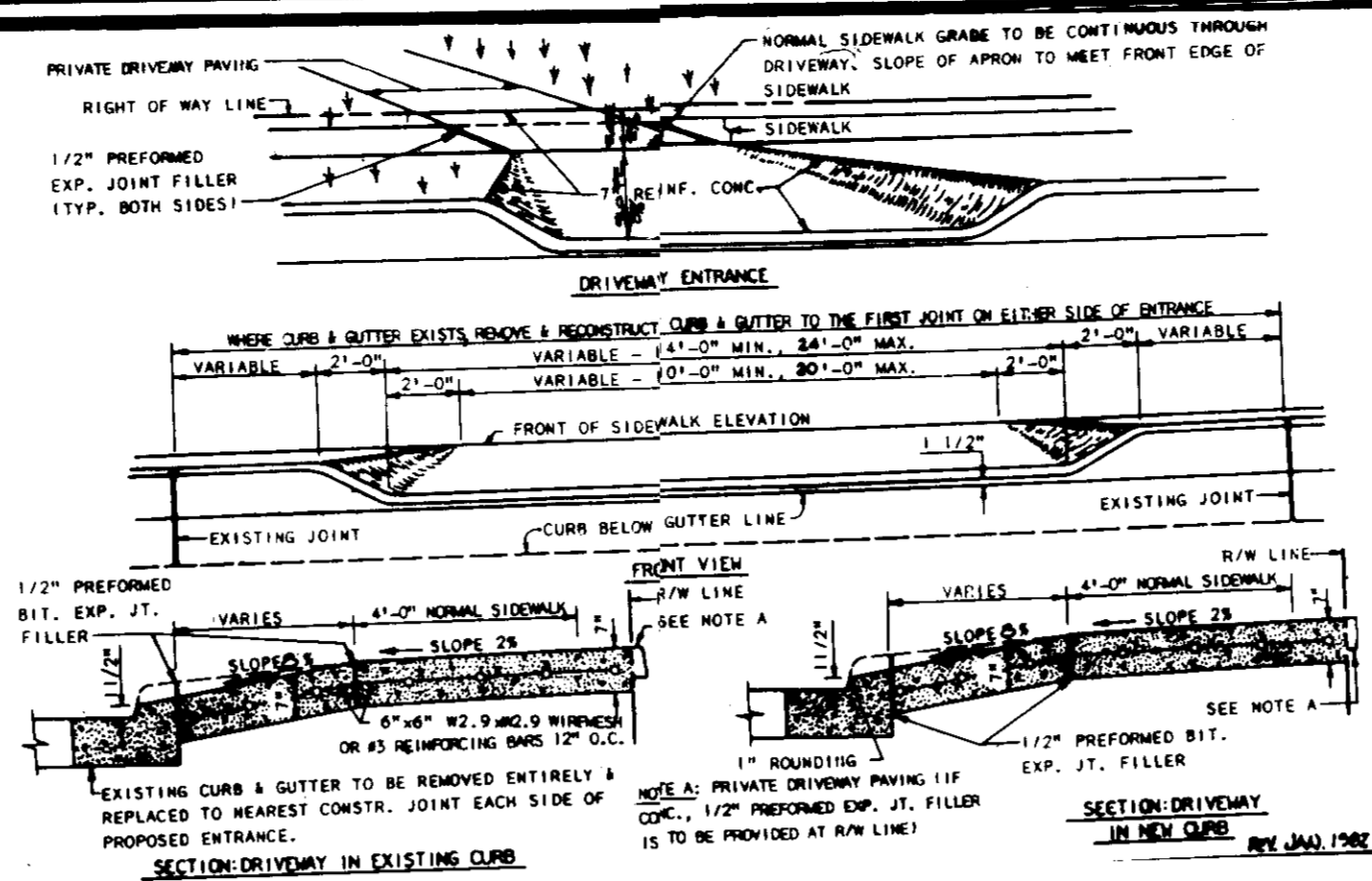
1. MOUND WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES.
2. FILTER CLOTH TO BE FASTENED SECURELY TO MOUND WIRE FENCE WITH TIES SPACED EVERY 2' AT TOP AND MID SECTION.
3. HOLD THE SECTIONS OF FILTER CLOTH AGAINST EACH OTHER THEY SHALL BE OVERLAPPED BY SIX INCHES AND FOLDED.
4. MAINTENANCE SHALL BE PERFORMED AS NEEDED. ALL MATERIAL REMOVED WHEN "MULCH" DEVELOPS IN THE SILT FENCE.

SILT FENCE NOT TO SCALE



- CONSTRUCTION SPECIFICATIONS
1. Stone Size - Use 2" stone, or reclaimed or recycled concrete equivalent.
 2. Length - As required, but not less than 50 feet (except on a single residence lot where a 30 foot minimum length would apply).
 3. Thickness - Not less than six (6) inches.
 4. Width - Ten (10) foot minimum, but not less than the full width at points where ingress or egress occurs.
 5. Filter Cloth - Will be placed over the entire area prior to placing of stone. Filter will not be required on a single family residence lot.
 6. Surface Water - All surface water flowing or diverted toward construction entrance shall be piped across the entrance. If piping is impractical, a mountable berm with 5:1 slope will be permitted.
 7. Maintenance - The entrance shall be maintained in a condition which will prevent tracking or flowing of sediment onto public rights-of-way. This may require periodic top dressing with additional stone as conditions demand.
 8. Washing - Wheels shall be cleaned to remove sediment prior to entrance onto public rights-of-way. When washing is required, it shall be done on an area stabilized with stone and which drains into an approved sediment trapping device.
 9. Periodic inspection and needed maintenance shall be provided after each rain.

STABILIZED CONSTRUCTION ENTRANCE NOT TO SCALE



RESIDENTIAL DRIVEWAY ENTRANCE NOT TO SCALE

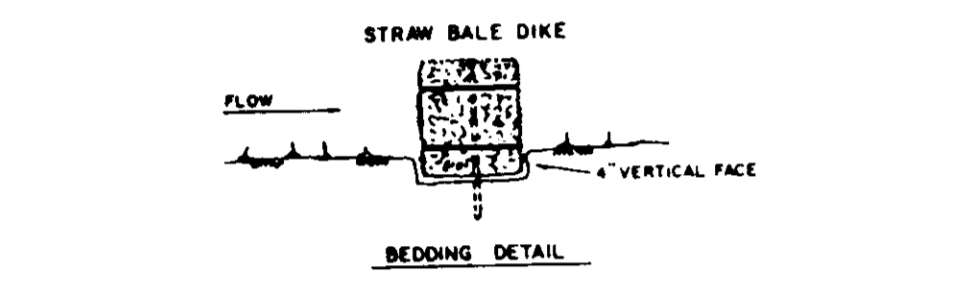
CONSTRUCTION SEQUENCE

1. OBTAIN GRADING PERMIT. INSPECT EXISTING SEDIMENT TRAPS AND MAKE ANY NECESSARY REPAIRS OR MAINTENANCE TO THE TRAPS PRIOR TO BEGINNING ANY WORK SHOWN HEREON.
2. CONSTRUCT STONE CONSTRUCTION ENTRANCE FOR LOTS.
3. INSTALL STRAW BALE DIKE OR SILT FENCE ON LOTS AS REQUIRED.
4. CLEAR AND GRUB HOUSE SITES TO SUBGRADE.
5. EXCAVATE FOR FOUNDATIONS AND BEGIN HOUSE CONSTRUCTION.
6. SEDIMENT SHALL BE REMOVED FROM THE SEDIMENT TRAPS WHEN THE CLEAROUT ELEVATION HAS BEEN REACHED.
7. THE CONTRACTOR SHALL INSPECT AND PROVIDE NECESSARY MAINTENANCE ON THE SEDIMENT AND EROSION CONTROL STRUCTURES SHOWN HEREON, AFTER EACH RAINFALL AND ON A DAILY BASIS.
8. THE SEDIMENT TRAP SHALL BE DEWATERED BY PUMPING. THE SEDIMENT FROM THE TRAPS SHALL BE PLACED UP-GRADE FROM THE SEDIMENT TRAPS IN SUCH A MANNER AS NOT TO INTERFERE WITH CONSTRUCTION OPERATIONS OR CAUSE EROSION DOWNGRADE FROM THE SEDIMENT TRAPS.
9. REMOVE SEDIMENT FROM ROADWAYS AND DRESS STONE CONSTRUCTION ENTRANCE AS REQUIRED.
10. FINE GRADE LOTS AND STABILIZE. INSTALL DRIVEWAYS AND SIDEWALKS.
11. REMOVE STRAW BALE DIKE OR SILT FENCE AND STABILIZE.
12. AFTER PERMISSION HAS BEEN GIVEN BY SEDIMENT CONTROL INSPECTOR, BACKFILL SEDIMENT TRAPS. STORM DRAIN CONSTRUCTION WILL BE COMPLETED AFTER CONTRIBUTING DRAINAGE AREAS ARE STABILIZED AND TRAPS HAVE BEEN REMOVED. STABILIZE ALL REMAINING DISTURBED AREAS WITH PERMANENT SEEDING MIXTURE AND STRAW MULCH.

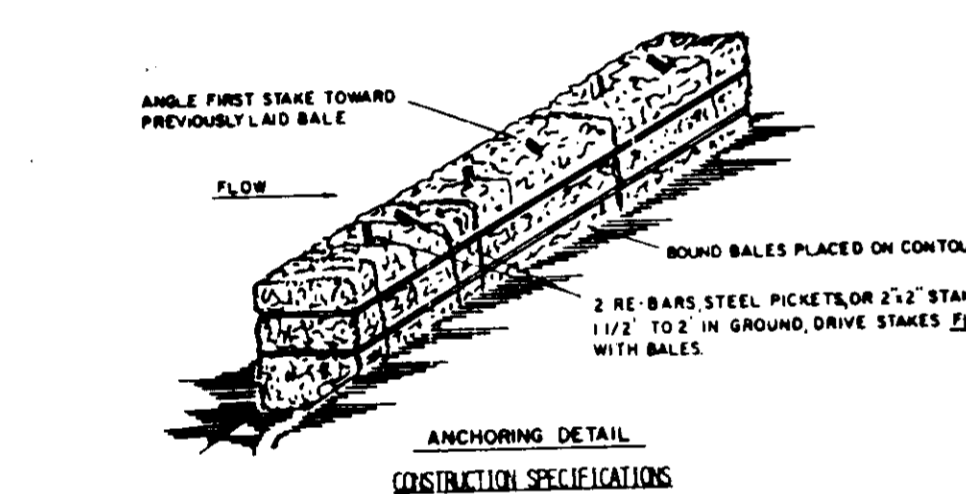
- PERMANENT CONTROL NOTES
- 1) A minimum of 24 hours notice must be given to the Howard County Office of Inspection and Permits prior to the start of any construction. (992-2437)
 - 2) All vegetative and structural practices are to be installed according to the provisions of this plan and are to be in conformance with the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.
 - 3) Following initial soil disturbance or redistribution, permanent or temporary stabilization shall be completed within a 7 calendar days for all permanent 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.
 - 4) All sediment traps/basins shown must be fenced and warning signs posted around their perimeter according to 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 EROSION AND SEDIMENT CONTROL for permanent seedings (Sec. 51) sod (Sec. 54), temporary seeding (Sec. 50) and mulching (Sec. 51). Temporary stabilization with mulch alone can only be done when recommended seeding dates 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: 14.00 Acres
 - Area Disturbed: 3.50 Acres
 - Area to be roofed or paved: 1.50 Acres
 - Area to be vegetatively stabilized: 1.00 Acres
 - Total Cut: 2000 Cu. Yds
 - Total Fill: 2000 Cu. Yds
 - Office waste/borrow area location: []
 - 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 DPW sediment control inspector.
 - 10) On all sites with disturbed areas in excess of 2 acres, approval of the inspection agency shall be requested upon completion of installation of permanent 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.

PERMANENT SEEDING NOTES

- Apply to graded or cleared areas not subject to immediate further disturbance where a permanent long-lived vegetative cover is needed.
- Soil Amendment: Loosen upper three inches of soil by raking, discing or other acceptable means before seeding.
- Soil Amendments: In lieu of soil test recommendations, use one of the following schedules
- 1) Preferred - Apply 2 tons per acre dolomitic limestone (92 lbs/1000 square ft) and 600 lbs per acre 10-10-10 fertilizer (24 lbs/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 ureaform fertilizer (9 lbs/1000 sq ft).
 - 2) Acceptable - Apply 2 tons per acre dolomitic limestone (92 lbs/1000 sq ft) and 1000 lbs per acre 10-10-10 fertilizer (22 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 20 lbs per acre (1.4 lbs/1000 sq ft) of Kentucky 31 Tall Fescue. For the period May 1 thru July 31, seed with 60 lbs Kentucky 31 Tall Fescue per acre and 2 lbs per acre (.05 lbs/1000 sq ft) of weeping lovegrass. During the period of October 16 thru February 28, protect site by: Option (1) 2 tons per acre of well anchored straw mulch and seed as soon as possible in the spring. Option (2) Use sod. Option (3) Seed with 60 lbs/acre Kentucky 31 Tall Fescue and mulch with 2 tons/acre well anchored straw.
- Mulching - Apply 1 1/2 to 2 tons per acre (70 to 90 lbs/1000 sq ft) of unrotted small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 2 1/2 gallon per acre (5 gal/1000 sq ft) of mulchified asphalt on flat areas. On slopes 8 feet or higher, use 3 1/2 gallon per acre (8 gal/1000 sq ft) for anchoring.
- Maintenance - Inspect all seeded areas and make needed repairs, replacements and reseedings.
- TEMPORARY SEEDING NOTES
- Apply to graded or cleared areas likely to be redisturbed where a short-term vegetative cover is needed.
- Soil Amendment: Loosen upper three inches of soil by raking, discing or other acceptable means before seeding.
- Soil Amendment: Apply 60 lbs per acre 10-10-10 fertilizer (14 lbs/1000 sq ft).
- Seeding: For periods March 1 thru April 30 and from August 15 thru November 15, seed with 20 lbs/acre of annual ryegrass (3.2 lbs/1000 sq ft). For the period May 1 thru August 14, seed with 3 lbs per acre of weeping lovegrass (.07 lbs/1000 sq ft). For the period November 16 thru February 28, protect site by applying 2 tons per acre of well anchored straw mulch and seed as soon as possible in the spring, or use sod.
- Mulching: Apply 1 1/2 to 2 tons per acre (70 to 90 lbs/1000 sq ft) of unrotted small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 2 1/2 gallon per acre (5 gal/1000 sq ft) of mulchified asphalt on flat areas. On slopes 8 feet or higher, use 3 1/2 gallon per acre (8 gal/1000 sq ft) for anchoring.
- Refer to the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for rates and methods not covered.

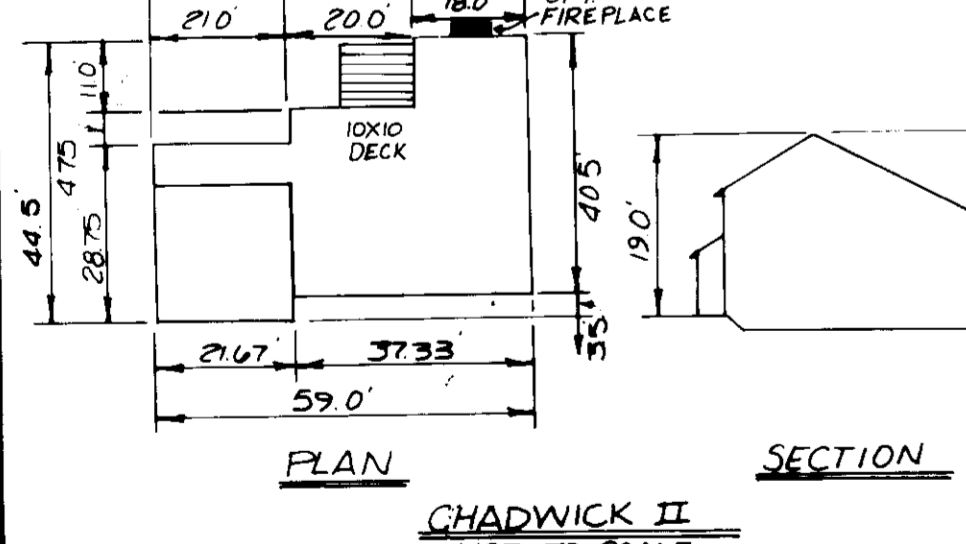


STANDARD SYMBOL

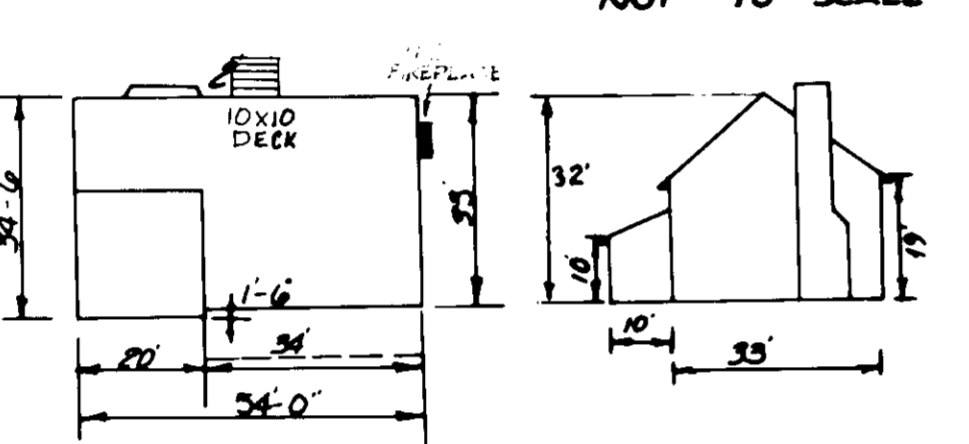


1. BALES SHALL BE PLACED AT THE TOE OF A SLOPE OR ON THE CONTOUR AND IN A ROW WITH DIKES THIRTY FEET APART.
2. EACH BALE SHALL BE EMBEDDED IN THE SOIL A MINIMUM OF (4) INCHES, AND PLACED SO THE BINDINGS ARE HORIZONTAL.
3. BALES SHALL BE SECURELY ANCHORED IN PLACE BY EITHER TWO STAKES OR RE-BARS DRIVEN THROUGH THE BALE. THE FIRST STAKE IN EACH BALE SHALL BE DRIVEN TOWARD THE PREVIOUSLY Laid BALE AT AN ANGLE TO FORCE THE BALES TOGETHER. STAKES SHALL BE DRIVEN FLUSH WITH THE BALE.
4. MAINTENANCE SHALL BE FREQUENT AND REPAIRS/REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
5. BALES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFULNESS SO AS NOT TO BLOCK OR IMPED STORM FLOW OR DRAINAGE.

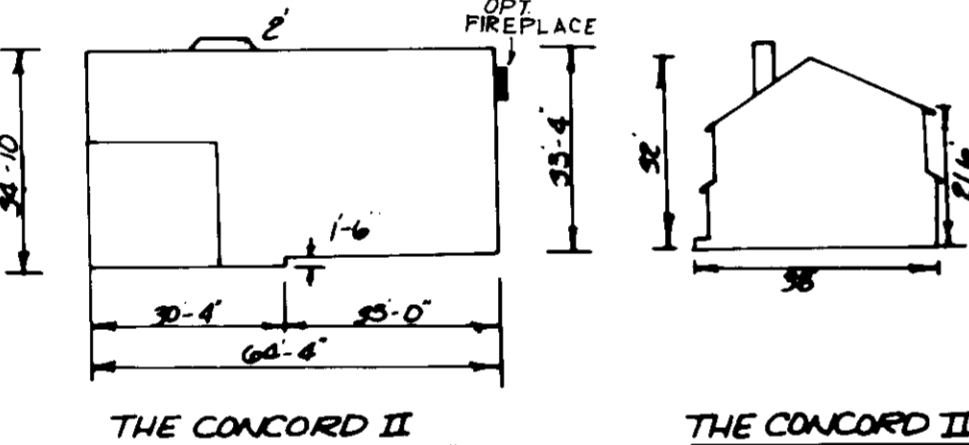
STRAW BALE DIKE NOT TO SCALE



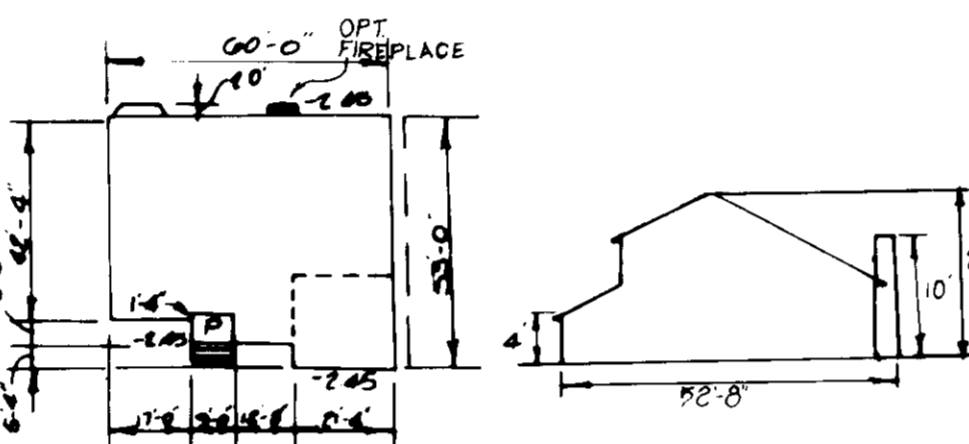
CHADWICK II NOT TO SCALE



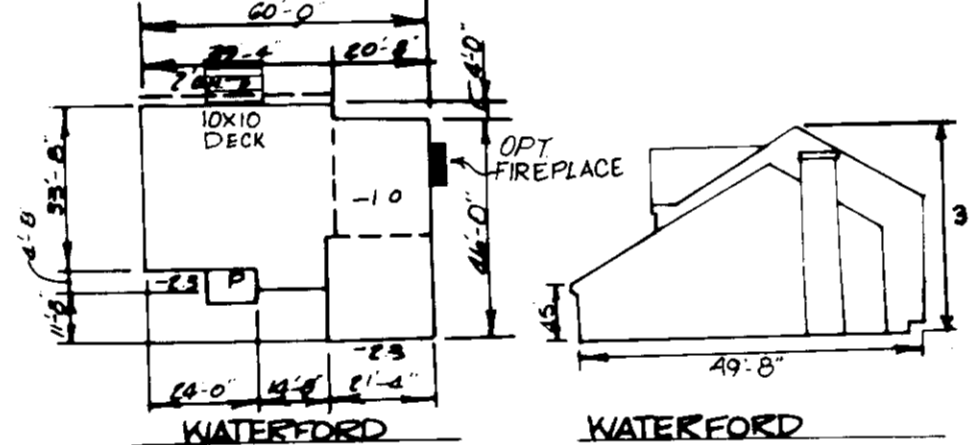
THE CONCORD I PLAN (NTS) SECTION (NTS)



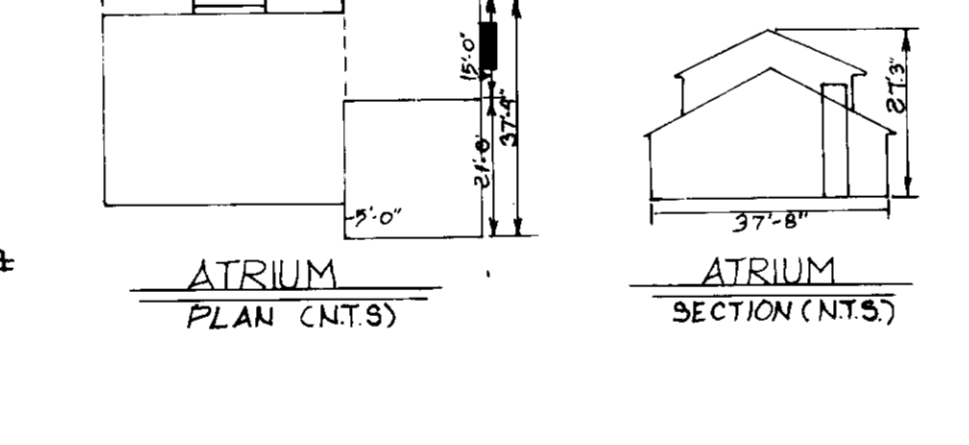
THE CONCORD II PLAN (NTS) SECTION (NTS)



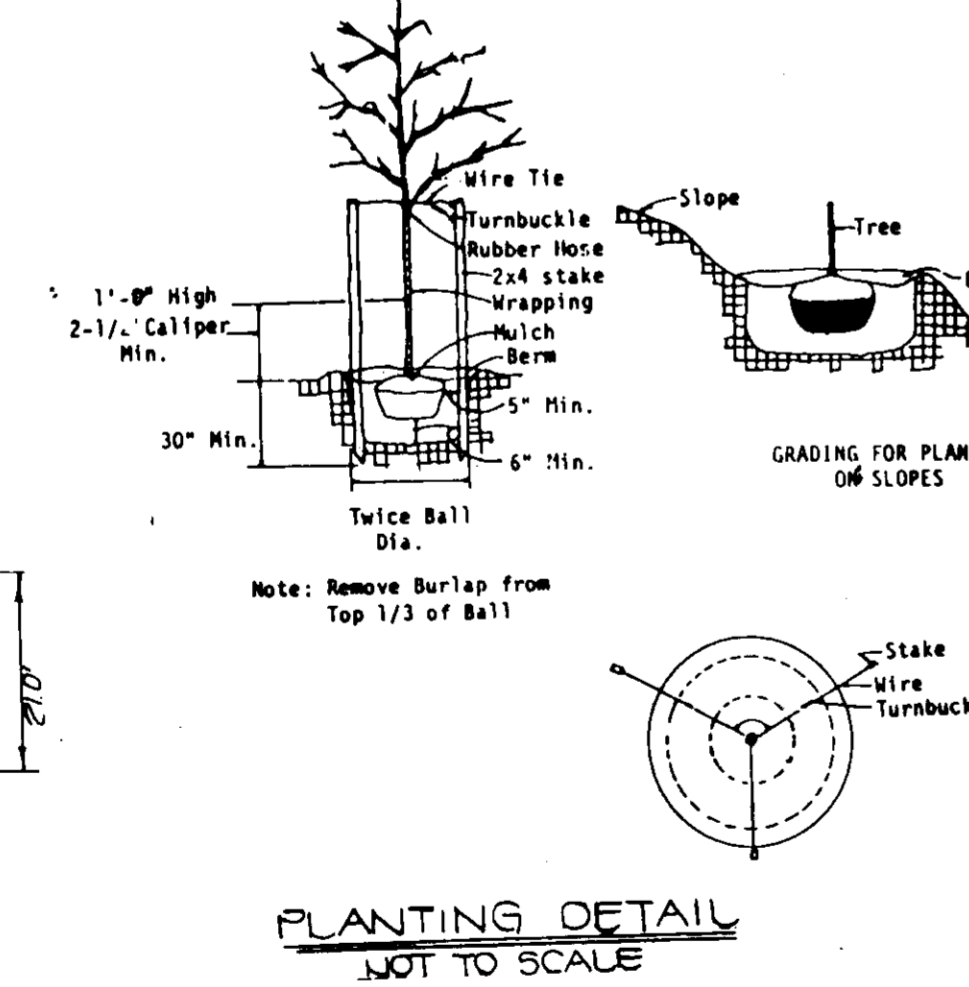
AYNSLEY PLAN (NTS) SECTION (NTS)



WATERFORD PLAN (NTS) SECTION (NTS)



ATRIUM PLAN (NTS) SECTION (NTS)



PLANTING DETAIL NOT TO SCALE

APPROVED
DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION
HOWARD COUNTY, MARYLAND
DATE: 6-3-87

ENGINEER'S CERTIFICATE
I HEREBY 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.

SIGNATURE OF ENGINEER: [Signature]
DATE: 6/1/87

DEVELOPER'S CERTIFICATE
I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND PLAN FOR EROSION AND SEDIMENT CONTROL AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ONSITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY.

SIGNATURE OF DEVELOPER: [Signature]
DATE: 8/24/87

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS
DATE: 9-1-87

THIS DEVELOPMENT IS APPROVED FOR EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
APPROVED: [Signature]
DATE: 9/1/87

APPROVED: OFFICE OF PLANNING AND ZONING
DATE: 9-1-87

APPROVED HOWARD COUNTY HEALTH DEPARTMENT FOR PUBLIC WATER AND SEWERAGE SYSTEMS
DATE: 9-4-87

APPROVED DEPARTMENT OF PUBLIC WORKS FOR PUBLIC WATER & SEWER AND STORM DRAINAGE SYSTEMS AND ROADS.
DATE: 9/3/87

DATE: 9-2-87

SITE DEVELOPMENT PLAN
McKENZIE'S DISCOVERY
SECTION ONE, LOTS: 3-17 & 19-30
2ND ELECTION DIST. HOWARD CO., MD.

JOHN E. HARMS JR. AND ASSOCIATES INC.
CONSULTING ENGINEERS - ARCHITECTS - SURVEYORS

9030 RED BRANCH ROAD SUITE 100
COLUMBIA, MARYLAND 21045 TELEPHONE 1301.740-5200

DESIGNED BY: J.C.S.
DRAWN BY: J.C.S.
CHECKED BY: P.J.
DATE: 8-24-87
SCALE: 1" = 30'
W.O. NO. 04-86-002E