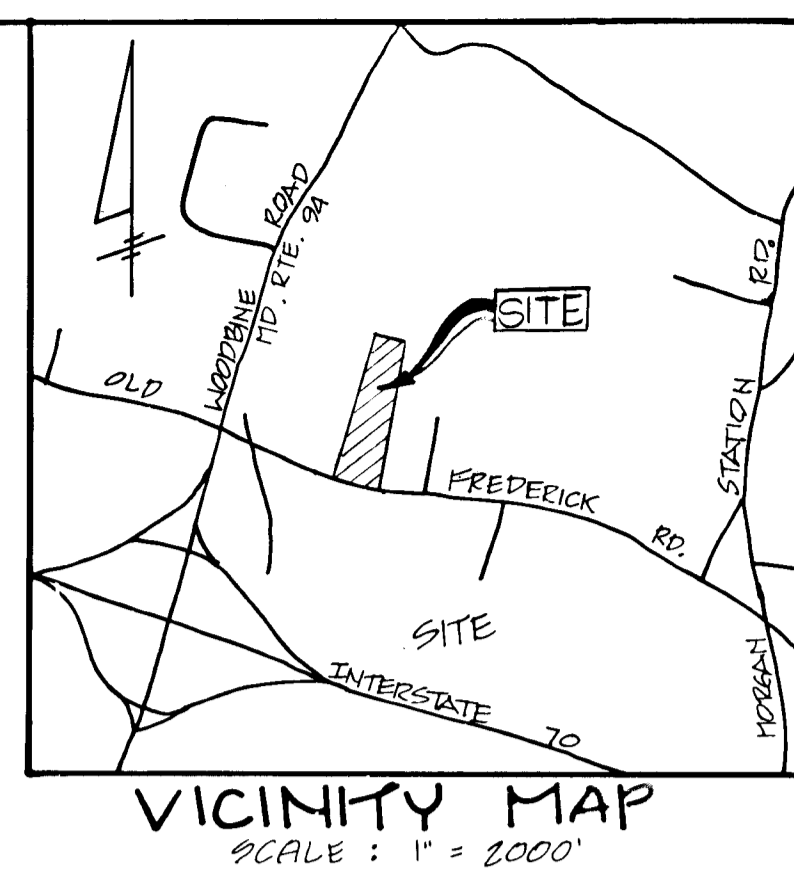
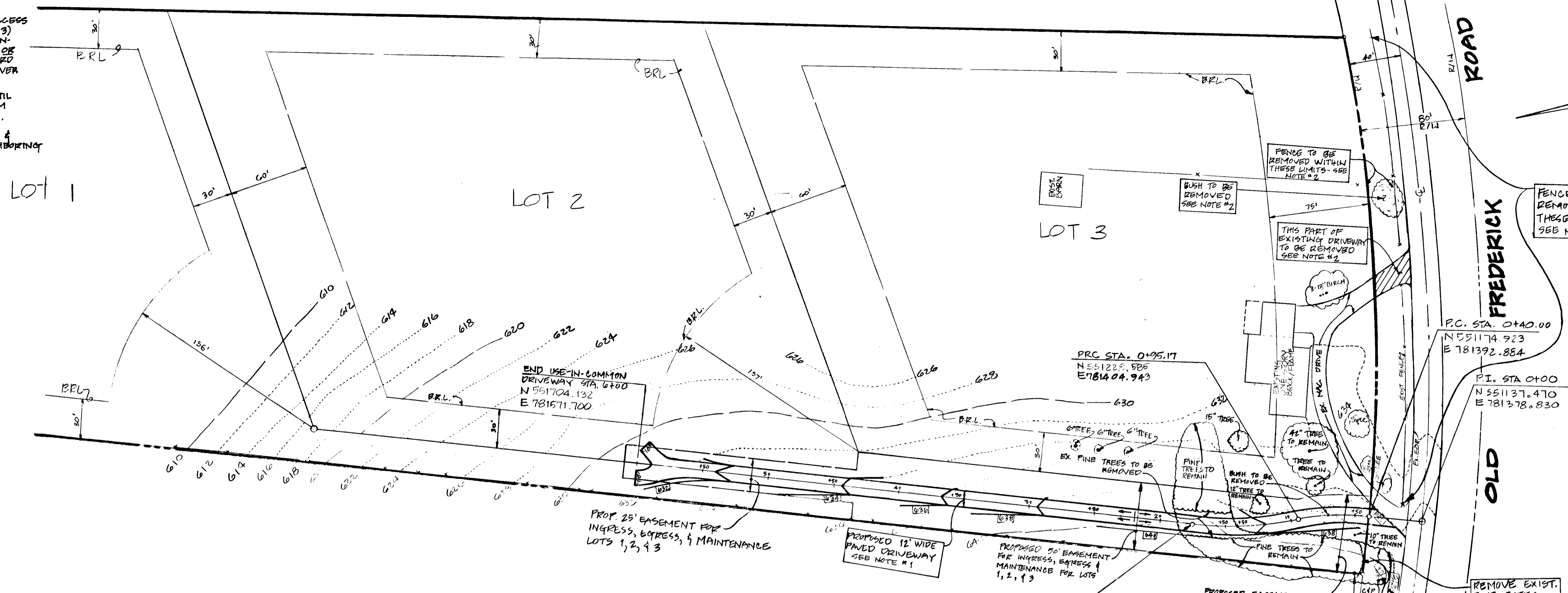


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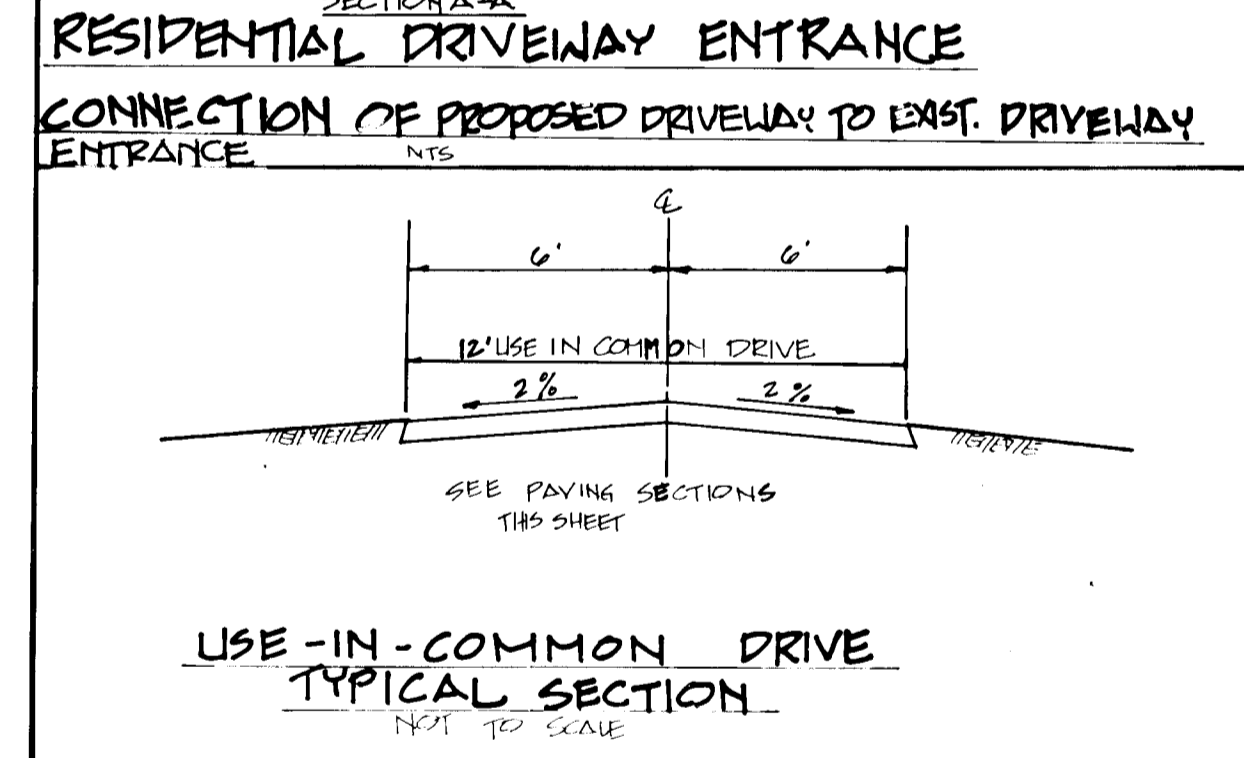
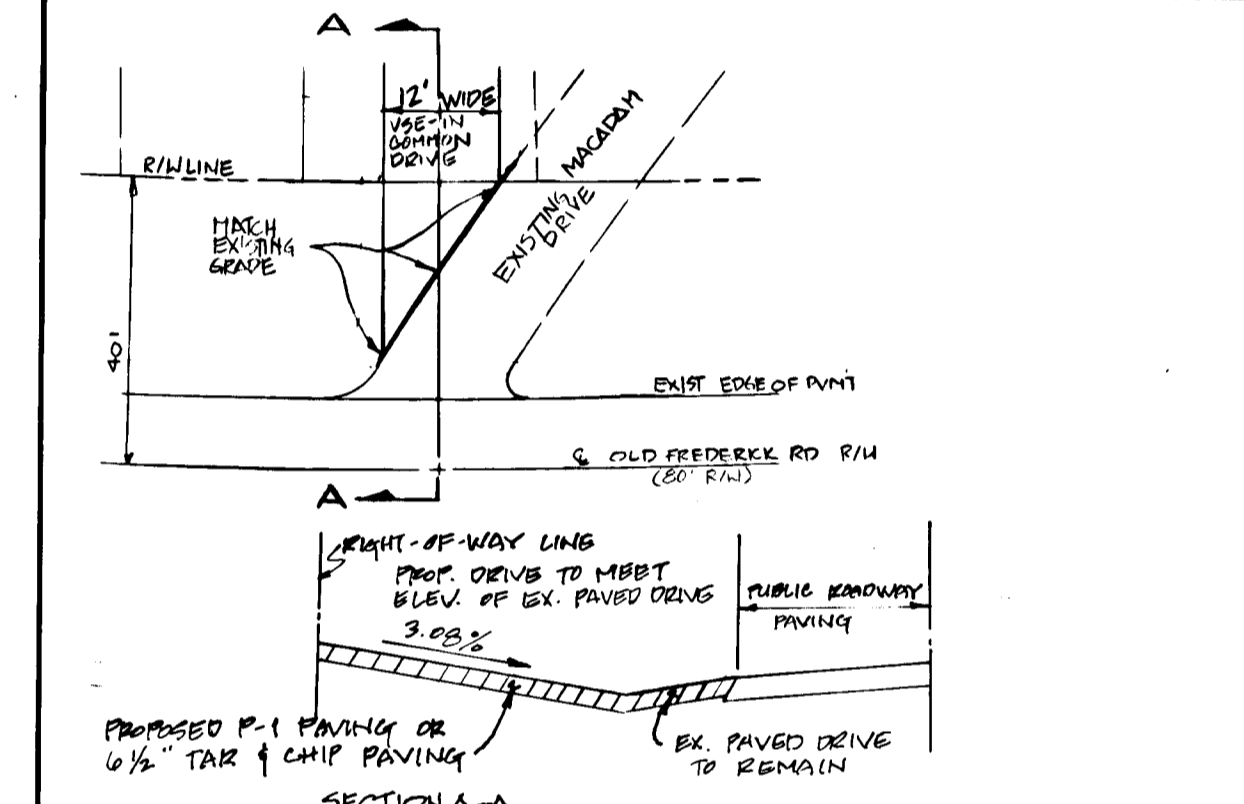
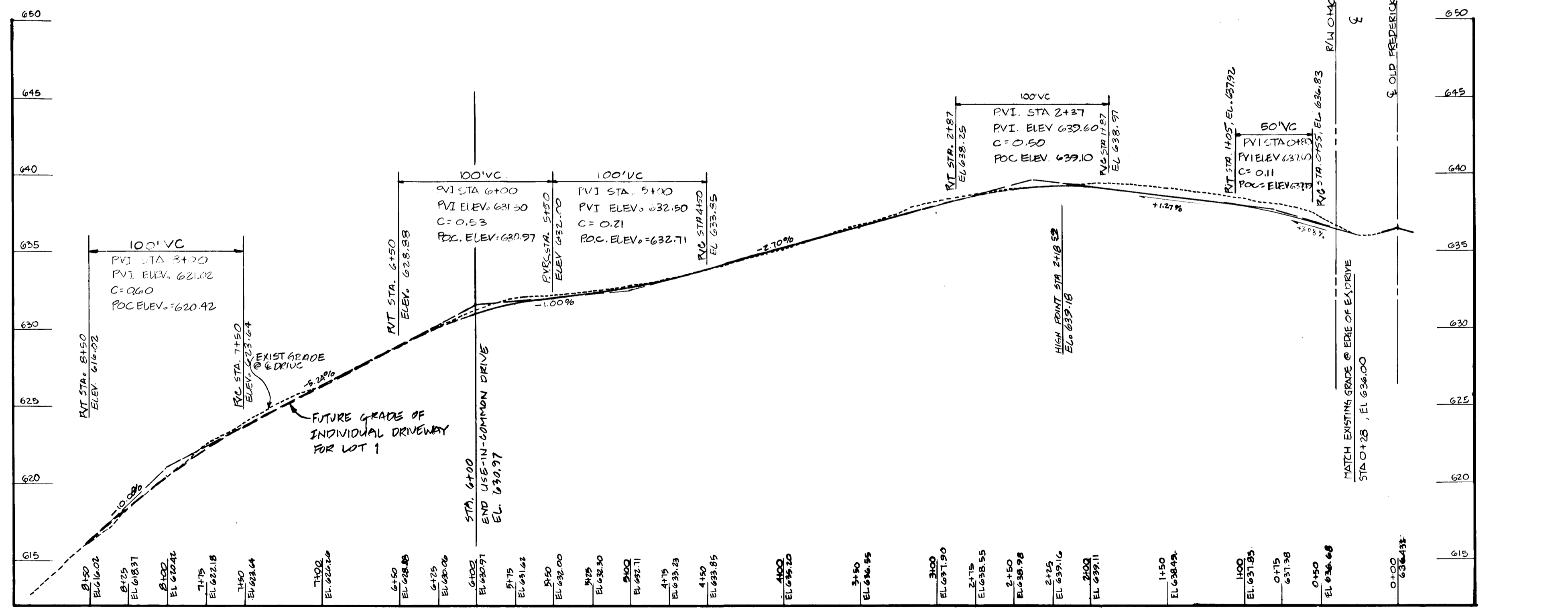
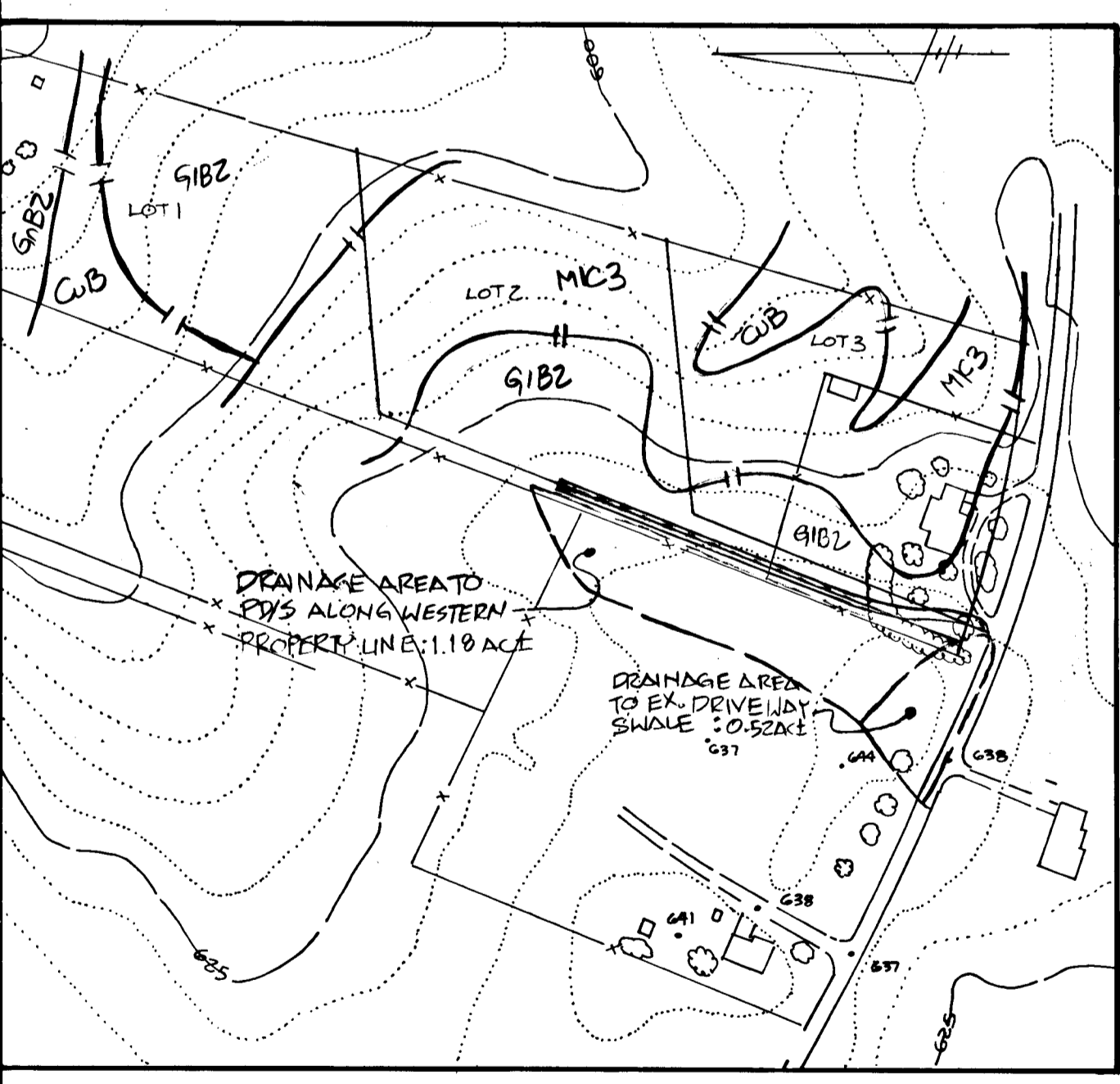
- CONSTRUCTION OF PRIVATE USE-IN-COMMON DRIVEWAY SHOWN HEREON IS REQUIRED BEFORE OR UPON ISSUANCE OF A BUILDING PERMIT (OR PERMITS) FOR LOT 1 AND/OR LOT 2.
- REMOVAL OF EXISTING FENCES, BUSHES, TREES, AND OF PART OF EASTERMOST ACCESS DRIVEWAY (TO THE EXISTING HOUSE ON LOT 3) MUST BE ACCOMPLISHED BEFORE USE-IN-COMMON DRIVEWAY CONSTRUCTION IS BEGUN, OR WHEN IMPROVEMENTS ARE MADE BY HOWARD COUNTY ALONG OLD FREDERICK ROAD, WHICHEVER OCCURS FIRST.
- BUILDING PERMITS WILL NOT BE ISSUED UNTIL CLEAR SIGHT DISTANCE IS PROVIDED FROM USE-IN-COMMON DRIVEWAY FACING WEST. THIS MUST BE ACHIEVED BY IMPROVEMENTS REQUIRING REMOVAL OF TOPOGRAPHY & RELATED OBSTACLES IN FRONT OF NEIGHBORING PROPERTY TO THE WEST.



SECTION NUMBER	ROAD AND STREET CLASSIFICATION	INVESTMENT MAINTENANCE
R1	PARKING AREAS AND TRAVELWAYS, APARTMENTS AND COMMERCIAL INDUSTRIAL ZONES WITH NO HEAVY TRUCKS.	1" BIT CONC SURFACE 2" BIT CONC BASE 3" STABILIZED SUB-BASE 4" STABILIZED SUB-BASE 5" STABILIZED SUB-BASE
TYPICAL PAVING SECTION FOR USE-IN-COMMON DRIVE *		FULL DEPTH BIT CONC ALTERNATE
* SEE ALTERNATE T&E & CHIP PAVING SECTION BELOW		1" BIT CONC SURFACE 4" BIT CONC BASE

Q CURVE DATA

FROM	TO	RADIUS	DELTA	LENGTH	TANGENT	CHORD
0+40	0+95.17	200.00'	15°48'23"	59.17'	27.76'	N 12°39'53.5"E 55.00'
0+95.17	1+14.99	289.32'	15°48'23"	79.82'	40.16'	N 12°39'53.5"E 79.56'



PAVEMENT MATERIALS

1/2" OF #7 STONE, PLACED IN 1" OF #3 STONE, TREATED WITH EMULSIFIED ASPHALT @ A RATE OF 0.8 GAL/100 YD

ALTERNATE 6 1/2" T&E & CHIP PAVING SECTION FOR USE-IN-COMMON DRIVE

DEVELOPER'S CERTIFICATE

I CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THESE PLANS, AND THAT ANY 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.

Sarah Anna Stout 7/11/90
NAME DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING.

Mark V. Taylor 2/5/91
CHIEF DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT DATE

APPROVED: DEPARTMENT OF PUBLIC WORKS.

Michael R. Kelly 2-12-91
CHIEF, BUREAU OF ENGINEERING DATE

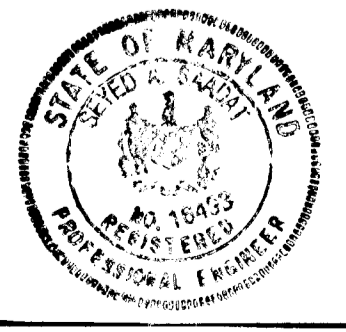
THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SOIL EROSION AND SEDIMENT CONTROL.

John M. Nelson 2/5/91
SOIL CONSERVATION DISTRICT DATE

THE PLANS FOR SOIL EROSION AND SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

John M. Nelson 2/5/91
SOIL CONSERVATION DISTRICT DATE

SHANABERGER & LANE
8726 TOWN & COUNTRY BLVD.
SUITE 106 & 107
ELLCOTT CITY, MARYLAND 21043
(301) 461-9563



DESIGNED BY: GSS

DRAWN BY: ECF

CHECKED BY: SAS

DATE: 5/31/90

BY: NO

REVISION:

DATE:

OWNER:
SARAH ANNA STOUT
CLARENCE JAMES STOUT
CAROL SANNER HONG
15802 OLD FREDERICK ROAD
WOODBINE, MD. 21797

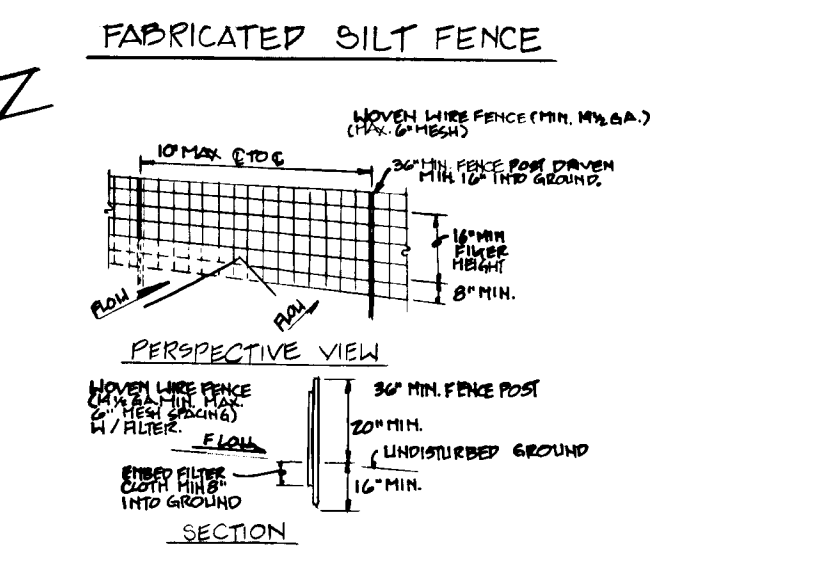
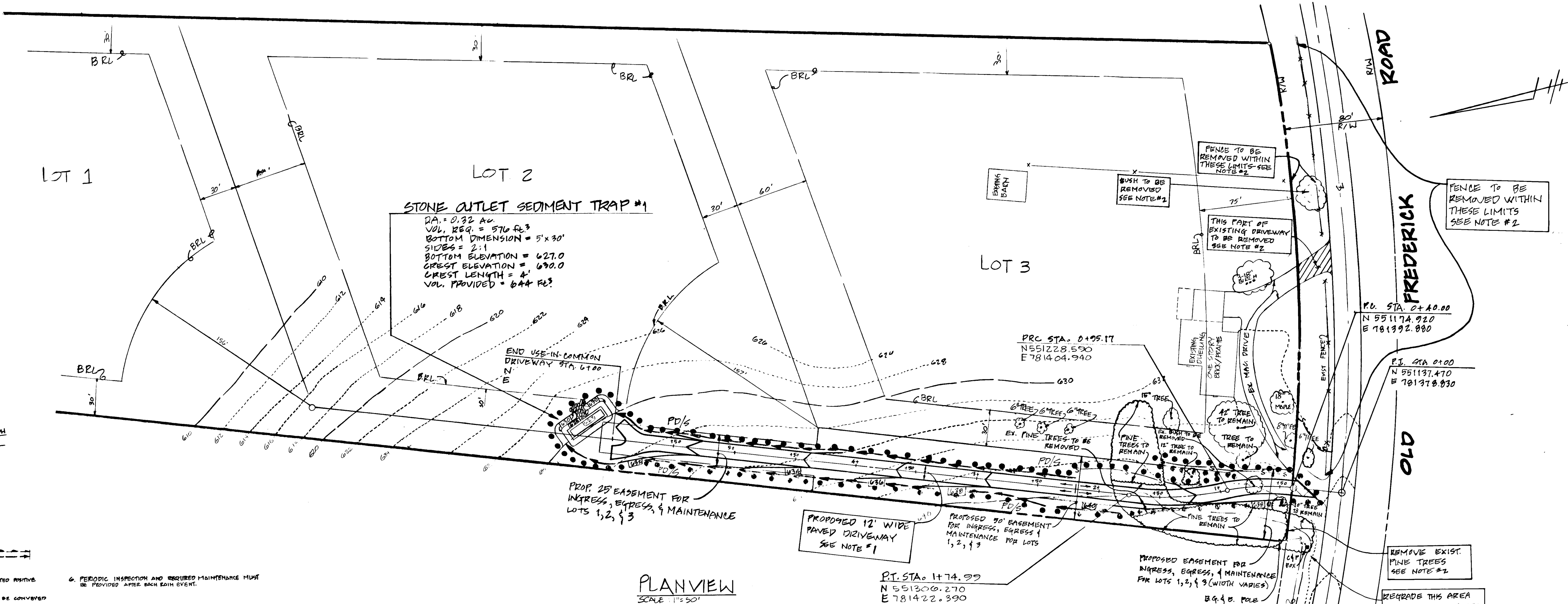
DEVELOPER:
SARAH ANNA STOUT
CLARENCE JAMES STOUT
CAROL SANNER HONG
15802 OLD FREDERICK ROAD
WOODBINE, MD. 21797

DRIVEWAY CONSTRUCTION PLAN
STOUT SUBDIVISION
LOT 1-3
4TH ELECTION DISTRICT
HOWARD COUNTY, MD.
WP 90-65

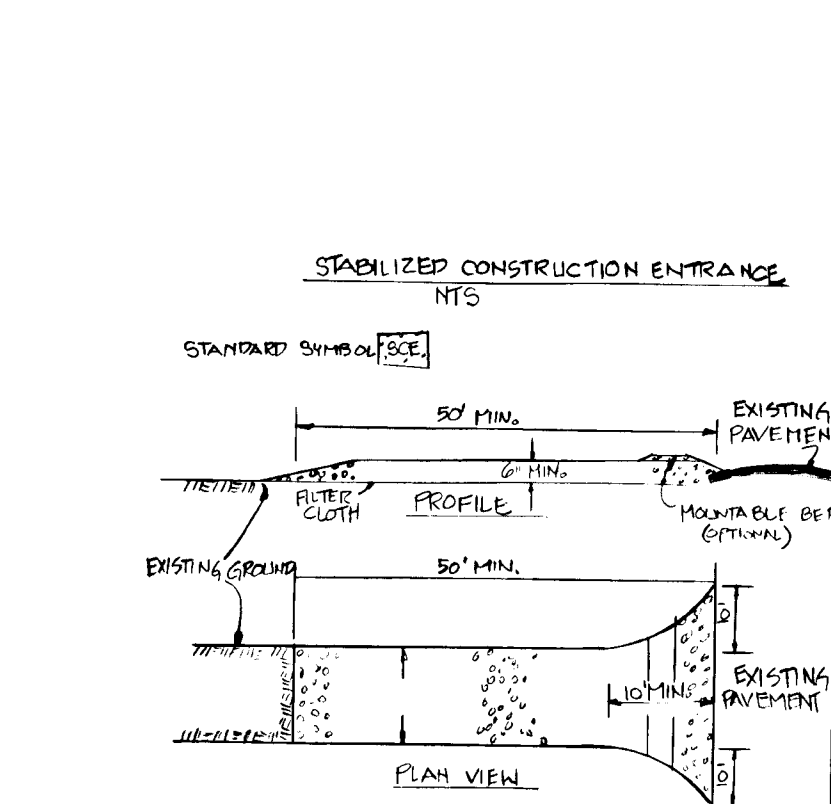
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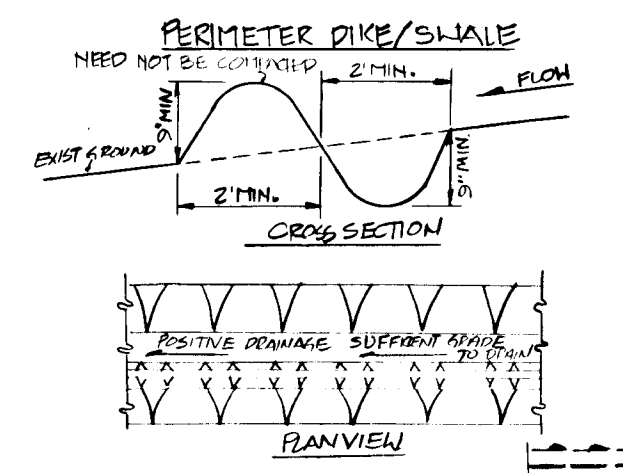
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- CONSTRUCTION NOTES FOR FABRICATED SILT FENCE**
1. WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES.
 2. FILTER CLOTH TO BE FASTENED SECURELY TO A WIRE FENCE WITH TIES SPACED EVERY 8" AT TOP AND MID SECTION.
 3. WHEN TWO SECTIONS OF FILTER CLOTH MEET AT AN INTERSECTION THEY SHALL BE OVERLAPPED BY SIX INCHES AND FASTENED.
 4. MAINTENANCE SHALL BE PERFORMED AS NECESSARY TO KEEP FENCE IN PROPER CONDITION. WHEN "WALKS" DEVELOP IN THE SILT FENCE:



- CONSTRUCTION SPECIFICATIONS**
1. STONE SIZE - USE 2" STONE, OR EQUIVALENT OF RECYCLED CONCRETE EQUIVALENT - AS REQUIRED, BUT NOT LESS THAN 80 FEET LENGTH ON A SINGLE RESIDENCE LOT WHERE 300 FOOT MINIMUM LENGTH WOULD APPLY.
 2. LENGTH - NOT LESS THAN SIX (6) INCHES.
 3. THICKNESS - NOT LESS THAN SIX (6) INCHES.
 4. WIDTH - TEN (10) FEET MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INTERSECTIONS OCCUR.
 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 REMAINING OR DIVERGED TOWARD CONSTRUCTION ENTRANCE SHALL BE STOPPED BY THE ENTRANCE. IF FLOW IS INTERRUPTED, A MINIMUM ELEVATION OF 2" SURFACE WATER SHALL BE MAINTAINED.
 7. MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TAKING OF EROSION OR DISTURBANCE TO PUBLIC RIGHTS OF WAY. THIS SHALL BE DONE BY THE CONTRACTOR. IF DISTURBANCE OCCURS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING THE AREA TO ORIGINAL CONDITION. ALL DISTURBED AREAS SHALL BE RESTORED TO ORIGINAL CONDITION WITHIN 10 DAYS.
 8. HAZARD - LITERALS SHALL BE CLEANED TO REMOVE SPILLAGE PRIOR TO PLACING OF STONE. WHEN LITERALS ARE PLACED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND LITERALS SHALL BE CLEANED TO REMOVE SPILLAGE PRIOR TO PLACING OF STONE.
 9. PERIODIC INSPECTIONS AND MAINTENANCE SHALL BE PROVIDED A PER 24 HOURS.



- CONSTRUCTION SPECIFICATION**
1. ALL PERIMETER DIKES/WALLS SHALL HAVE UNINTERRUPTED POSITIVE GRADE TO AN OUTLET.
 2. DIVERTED RUNOFF FROM A DISTURBED AREA SHALL BE CONVEYED BY A SEDIMENT TRAPPING DEVICE.
 3. DIVERTED RUNOFF FROM AN UNDISTURBED AREA SHALL OUTLET INTO AN UNDISTURBED STABILIZED AREA AT POINTS OF INTERSECTION.
 4. THE DRAINAGE SHALL BE RECAVATED OR QUARRED TO THE 1:50:00 AND HAVE CROSS SECTION AS REQUIRED TO MEET THE CRITERIA SPECIFIED IN THE SPECIFICATIONS.
 5. STABILIZATION OF THE AREA OUTSIDE OF THE DIKE AND WALL SHALL BE DONE IN ACCORDANCE WITH THE SPECIFICATIONS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.
 6. PERIODIC INSPECTION AND REQUIRED MAINTENANCE MUST BE PROVIDED AT THE SOIL EROSION AND SEDIMENT CONTROL DEVICES.

PERMANENT SEEDING NOTES

- SEEDBED PREPARATION:** LOOSEN UPPER 3 INCHES OF SOIL BY RAKING, DISCING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING, IF NOT PREVIOUSLY LOOSENED.
- SOIL AMENDMENTS:** USE ONE OF THE FOLLOWING SCHEDULES:
- 1) PREFERRED - APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE (92 LBS./1000 SQ. FT.) AND 600 LBS. PER ACRE 10-10-10 FERTILIZER (4 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 UREA-FORM FERTILIZER (91 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 (23 LBS./1000 SQ. FT.) BEFORE SEEDING. HARROW OR DISC INTO UPPER THREE INCHES OF SOIL.

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 210 GALLONS PER ACRE (5 GAL./1000 SQ. FT.) OF EMULSIFIED ASPHALT ON FLAT AREAS. ON SLOPES 8 FEET OR HIGHER, USE 348 GAL. PER ACRE (8 GAL./1000 SQ. FT.) FOR ANCHORING.

PERMANENT SEEDING

ALL DISTURBED AREAS SHALL BE STABILIZED AS FOLLOWS:

SEEDBED PREPARATION: LOOSEN UPPER 3 INCHES OF SOIL BY RAKING, DISCING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING, IF NOT PREVIOUSLY LOOSENED.

SOIL AMENDMENTS: APPLY 2 TONS/ACRE DOLOMITIC LIMESTONE AND 600 LBS./ACRE 10-10-10 FERTILIZER. HARROW OR DISC LIME AND FERTILIZER INTO UPPER THREE INCHES OF SOIL AT TIME OF SEEDING, APPLY 400 LBS./ACRE OF 38-0-0 UREA-FORM FERTILIZER AND 500 LBS./ACRE OF 10-20-20 FERTILIZER.

SEDIMENT 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. (592-2437)
- 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 EROSION AND SEDIMENT CONTROL.
- 3) FOLLOWING INITIAL SOIL DISTURBANCE OR PERTURBANCE PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN: (A) 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.
- 4) 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, STRM 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) 500 (SEC. 54), TEMPORARY SEEDINGS (SEC 52) 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.

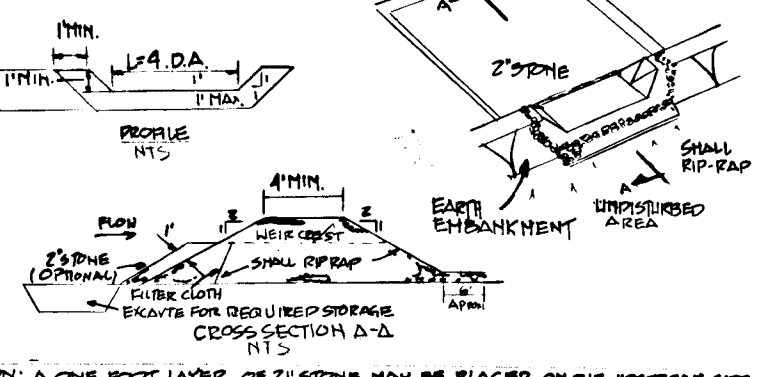
- 6) ALL SEDIMENT CONTROL STRUCTURES ARE TO REMAIN IN PLACE AND ARE TO BE MAINTAINED IN OPERATIVE CONDITION UNTIL PERMISSION FOR THEIR REMOVAL HAS BEEN OBTAINED FROM THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
- 7) SITE ANALYSIS:

TOTAL AREA OF SITE	12.7358 ACRES
AREA DISTURBED	2.44 ACRES
AREA TO BE ROOFED OR PAVED	0.14 ACRES
AREA TO BE VEGETATIVELY STABILIZED	0.28 ACRES
TOTAL CUT	257 CU. YDS.
TOTAL FILL	257 CU. YDS.
OFF-SITE WASTE/BORROW AREA LOCATION	N/A

- 8) ANY SEDIMENT CONTROL PRACTICE WHICH IS DISTURBED BY GRADING OR CONSTRUCTION ACTIVITY MUST BE REPAIRED ON THE SAME DAY OF DISTURBANCE.
- 9) ADDITIONAL SEDIMENT CONTROL MUST BE PROVIDED, IF DEEMED NECESSARY BY THE HOWARD COUNTY DRN 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 THE 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.
 - 11) DURING CONSTRUCTION OF FUTURE DWELLINGS ON LOTS 1 & 2, SEDIMENT CONTROL WILL BE PROVIDED ON AN INDIVIDUAL LOT BASIS.
 - 12) ALL PIPES TO BE BLOCKED AT THE END OF EACH DAY.
 - 13) THE TOTAL AMOUNT OF STRAW BALE DIKES/SILT FENCE EQUALS 190 L.F.

SEQUENCE OF CONSTRUCTION

- 1) OBTAIN GRADING PERMIT
- 2) CONTRACTOR MUST SUBMIT WRITTEN NOTIFICATION 72 HOURS PRIOR TO ANY CONSTRUCTION ACTIVITIES TO THE HOWARD COUNTY SEDIMENT CONTROL SECTION STATING:
 - A) WHEN CONTRACTOR INTENDS TO BEGIN CONSTRUCTION
 - B) CONTRACTOR'S TENTATIVE COMPLETION DATE
- 3) REMOVE TREES, FENCE, BULKH SOUTH OF PROPOSED R/W LINE
- 4) INSTALL STABILIZED CONSTRUCTION ENTRANCE, SEDIMENT TRAP #1, PDS, AND SILT FENCE.
- 5) GRADE DRIVEWAY AND AREA ALONG OLD FREDERICK ROAD WEST OF DRIVEWAY
- 6) APPLY TEMPORARY STABILIZATION
- 7) PAVE DRIVEWAY
- 8) FINE GRADE REMAINING AREA
- 9) APPLY PERMANENT STABILIZATION
- 10) UPON RECEIPT OF WRITTEN APPROVAL FROM THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR, REMOVE SEDIMENT CONTROLS



- CONSTRUCTION SPECIFICATION FOR SILT FENCE**
1. LARGE WIRE EMBROIDERY SHALL BE CARRIED THROUGH AND STITCHED TO PREVENT Tearing AND ROOT THAT THE FENCE AREA SHALL BE CLEARED.
 2. THE FILL MATERIAL FOR THE ENTRANCE SHALL BE PEEB OR ROOTS AND OTHER LIGNO MATERIALS AS WELL AS BATTERED STONES, ROCK, ORGANIC MATERIALS. NO OTHER MATERIALS SHALL BE USED FOR CONSTRUCTION.
 3. ALL CUT AND FILL AREAS SHALL BE 8:1 OR FLATTER.
 4. THE SEDIMENTS IN THE OUTLET SHALL BE SHALL BE RAKED 4" ALONG WITH A 1" THICKNESS OF 3" AGGREGATE PLACED ON THE UP-DRAIN SIDE ON THE SMALL R/W SIDE OF THE FENCE.
 5. SEDIMENT SHALL BE REMOVED AND TEMP. REPORTED TO ITS ORIGINAL DIMENSIONS WHEN THE SEDIMENT HAS ACCUMULATED TO 1/2 THE DEPTH OF THE TRAP.
 6. THE STRUCTURE SHALL BE INSPECTED EACH DAY AND REPAIRS MADE AS NEEDED.
 7. CONSTRUCTION OPERATIONS SHALL BE CARRIED OUT IN SUCH A MANNER THAT EROSION AND WATER POLLUTION IS MINIMIZED.
 8. THE STRUCTURE SHALL BE REMOVED AND THE AREA STABILIZED WHEN THE STORMWATER AREA HAS BEEN PROPERLY STABILIZED.

DEVELOPER'S CERTIFICATE

I CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THESE PLANS AND THAT ANY 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 COUNTY SOIL CONSERVATION DISTRICT.

Sarah Anna Stout 7/1/90
NAME DATE

CONSULTANT'S CERTIFICATION

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

Sayed A. Saadat 5/31/90
SEYED A. SAADAT PROF. ENGR. # 16939 DATE

1609

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING
David J. Taylor 2/5/91
CHIEF, DIVISION OF CONSTRUCTION PLANNING AND LAND DEVELOPMENT

APPROVED: DEPARTMENT OF PUBLIC WORKS
Michael R. Ryan 2/12/91
CHIEF, BUREAU OF ENGINEERING

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SOIL EROSION AND SEDIMENT CONTROL.
Shanaberger & Lane
DATE 2/5/91

THESE PLANS FOR SOIL EROSION AND SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD COUNTY SOIL CONSERVATION DISTRICT.
Shanaberger & Lane
DATE 2/5/91

SHANABERGER & LANE
8726 TOWN & COUNTRY BLVD.
SUITES 106 & 107
ELLKOTT CITY, MARYLAND 21043
(301) 461-9563

DESIGNED BY: GSS
DRAWN BY: ECF
CHECKED BY: SAS
DATE: 5/31/90

OWNER:
SARAH ANNA STOUT
CLARENCE JAMES STOUT
CAROL SANNER HONG
15802 OLD FREDERICK RD
WOODBINE, MD 21797

DEVELOPER:
SARAH ANNA STOUT
CLARENCE JAMES STOUT
CAROL SANNER HONG
15802 OLD FREDERICK RD
WOODBINE, MD 21797

EROSION & SEDIMENT CONTROL PLAN
STOUT SUBDIVISION
LOT 1-3
4TH ELECTION DISTRICT
HOWARD COUNTY, MD
WF 90-65

SCALE: 1"=50'
SHEET 2
OF 2