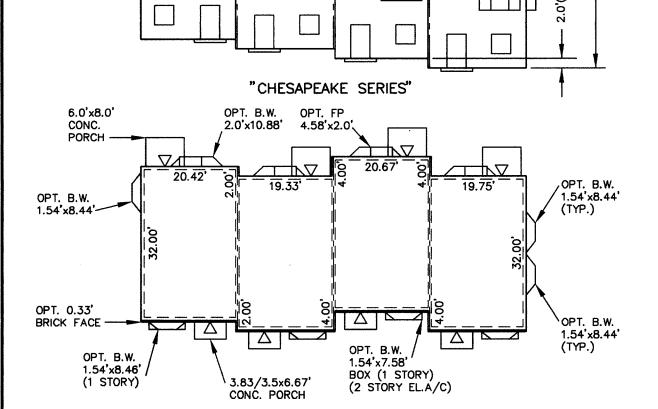
SHEET INDEX SITE DEVELOPMENT PLAN - GRADING PLAN SITE DEVELOPMENT PLAN - GRADING PLAN 4 SITE DEVELOPMENT PLAN - GRADING PLAN SEDIMENT & EROSION CONTROL PLAN SEDIMENT & EROSION CONTROL NOTES AND DETAILS LANDSCAPE PLAN, NOTES AND DETAILS

KAISER FARM SINGLE-FAMILY ATTACHED HOMES THRU 71 AND 74 THRU 80

2nd ELECTION DISTRICT HOWARD COUNTY, MARYLAND SITE DEVELOPMENT PLAN

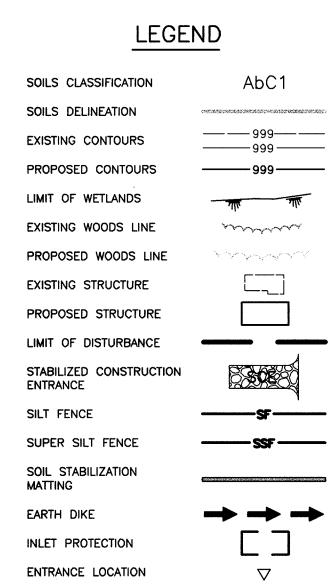


LARGEST UNIT: 20.67'x32' = 661SF/60% COVERAGE = 1102SF MIN. LOT SIZE NOTE: AN APPROVED ILLUSTRATION IS ON FILE WITH THIS SITE PLAN WHICH DEMONSTRATES THE MITIGATION OF THE VISUAL IMPACT FOR STRUCTURES EXCEEDING THE MAXIMUM LENGTH OF 120' PER HOWARD COUNTY ZONING REGULATIONS SEC.112(D)(1)(e)

A HOUSE-TYPE REVISION (RESITE) IS REQUIRED WHEN THE FOLLOWING OCCURS:

- 1. A HOUSE TYPE IS ADDED OR DELETED.
- 2. A CHANGE IN ELEVATION OF HOUSE 1 (ONE) FOOT OR MORE. 3. TO CHANGE THE GRADING FROM AN IN-GROUND BASEMENT TO A WALK-OUT BASEMENT.

HOUSE TYPICAL - FOOTPRINT SCALE: 1'' = 20'



| | | | | | ADDRES | S CHAF | <u>₹</u> | | | | |
|---------|------|----------------|----|----------------|--------------|---------|----------------|--|----------|---|--------------|
| LOT NO. | STR | STREET ADDRESS | | STREET ADDRESS | | LOT NO. | STREET ADDRESS | | LOT NO. | STREET ADDRESS | |
| 1 | 3203 | KAISER DRIVE | 21 | 8819 | RACHEL COURT | 41 | 3245 | KAISER DRIVE | 61 | 3254 | KAISER DRIVE |
| 2 | 3205 | KAISER DRIVE | 22 | 8821 | RACHEL COURT | 42 | 3247 | KAISER DRIVE | 62 | 3256 | KAISER DRIVE |
| 3 | 3207 | KAISER DRIVE | 23 | 8823 | RACHEL COURT | 43 | 3249 | KAISER DRIVE | 63 | 3258 | KAISER DRIVE |
| 4 | 3209 | KAISER DRIVE | 24 | 8825 | RACHEL COURT | 44 | 3214 | KAISER DRIVE | 64 | 3262 | KAISER DRIVE |
| 5 | 3211 | KAISER DRIVE | 25 | 8827 | RACHEL COURT | 45 | 3216 | KAISER DRIVE | 65 | 3264 | KAISER DRIVE |
| 6 | 3213 | KAISER DRIVE | 26 | 8829 | RACHEL COURT | 46 | 3218 | KAISER DRIVE | 66 | 3266 | KAISER DRIVE |
| 7 . | 3215 | KAISER DRIVE | 27 | 8831 | RACHEL COURT | 47 | 3220 | KAISER DRIVE | 67 | 3268 | KAISER DRIVE |
| 8 | 3217 | KAISER DRIVE | 28 | 8833 | RACHEL COURT | 48 | 3222 | KAISER DRIVE | 68 | 3270 | KAISER DRIVE |
| 9 | 3221 | KAISER DRIVE | 29 | 8814 | RACHEL COURT | 49 | 3226 | KAISER DRIVE | 69 | 3272 | KAISER DRIVE |
| 10 | 3223 | KAISER DRIVE | 30 | 8812 | RACHEL COURT | 50 | 3228 | KAISER DRIVE | 70 | 3274 | KAISER DRIVE |
| 11 | 3225 | KAISER DRIVE | 31 | 8810 | RACHEL COURT | 51 | 3230 | KAISER DRIVE | 71 | 3276 | KAISER DRIVE |
| 12 | 3227 | KAISER DRIVE | 32 | 8808 | RACHEL COURT | 52 | 3232 | KAISER DRIVE | 74 | 3286 | KAISER DRIVE |
| 13 | 3229 | KAISER DRIVE | 33 | 8806 | RACHEL COURT | 53 | 3236 | KAISER DRIVE | 75 | 3288 | KAISER DRIVE |
| 14 | 3231 | KAISER DRIVE | 34 | 8804 | RACHEL COURT | 54 | 3238 | KAISER DRIVE | 76 | 3290 | KAISER DRIVE |
| 15 | 3233 | KAISER DRIVE | 35 | 8802 | RACHEL COURT | 55 | 3240 | KAISER DRIVE | 77 | 3292 | KAISER DRIVE |
| 16 | 8807 | RACHEL COURT | 36 | 8800 | RACHEL COURT | 56 | 3242 | KAISER DRIVE | 78 | 3294 | KAISER DRIVE |
| 17 | 8809 | RACHEL COURT | 37 | 3237 | KAISER DRIVE | 57 | 3244 | KAISER DRIVE | 79 | 3296 | KAISER DRIVE |
| 18 | 8811 | RACHEL COURT | 38 | 3239 | KAISER DRIVE | 58 | 3246 | KAISER DRIVE | 80 | 3298 | KAISER DRIVE |
| 19 | 8813 | RACHEL COURT | 39 | 3241 | KAISER DRIVE | 59 | 3250 | KAISER DRIVE | | *************************************** | |
| | | | | | | 1 | | ······································ | <u> </u> | | |

SITE DATA TABULATION

GENERAL SITE DATA

- 1.) PRESENT ZONING: R-A-15 2.) APPLICABLE DPZ FILE REFERENCES:
- S-98-005, SP-00-003, P-99-017, F-00-102, F-01-025
- 3.) PROPOSED USE OF SITE: SINGLE-FAMILY ATTACHED
- 4.) PROPOSED WATER _X_ PUBLIC PROPOSED SEWER _x_ PUBLIC

AREA TABULATION

1.) TOTAL PROJECT AREA... 2.) AREA OF 100 YR. FLOODPLAIN...

3.) NET AREA OF SITE.. 4.) AREA OF THIS PLAN SUBMISSION.

PARKING SPACE DATA .) NUMBER OF PARKING SPACES REQUIRED BY

5.) APPROXIMATE LIMIT OF DISTURBANCE..

ZONING REGULATIONS AND/OR FDP CRITERIA SFA/TOWNHOMES (2 SPACES/UNIT) MFA/APARTMENTS (2 SPACES/UNIT)

THIS PLAN (SDP-02-022) APARTMENTS (SDP-02-024) TOTALS REQUIRED 78 UNITS \times 2/UNIT = 156 98 UNITS \times 2/UNIT = 196 OVERFLOW (0.3 SPACES/UNIT) .. 98 UNITS \times 0.3/UNIT = 29 78 UNITS \times 0.3/UNIT = 23 TOTAL = 4042.) TOTAL NUMBER OF PARKING SPACES PROVIDED

184 (SDP-02-024)

427 TOTAL*

20 8815 RACHEL COURT 40 3243 KAISER DRIVE 60 3252 KAISER DRIVE

* - (INCLUDES 10 HANDICAPPED SPACES w/2 VAN ACCESS)

243 (PROVIDED ON F-01-025)

 $3.63 \pm AC$.

| ESS | |
|-------|---|
| DRIVE | |
| | |
| | |
| | |
| | DRIVE |

PERMIT INFORMATION CHART SUBDIVISION NAME P.681 & p/o P.848 KAISER FARM

TAX MAP

SEWER CODE

2nd

1453600

PLAT No. | BLOCK No.

14770

WATER CODE

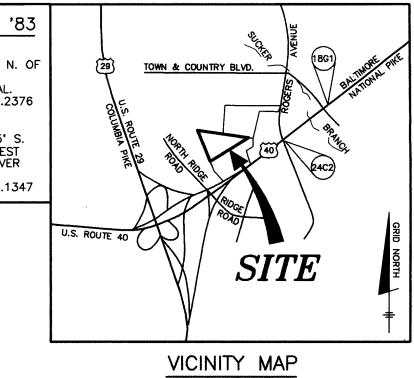
23 & 24 | R-A-15

LOCATION PLAN

SCALE: 1" = 100'

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING ELEC. DIST. | CENSUS CHIEF, DIVISION OF LAND DEVELOPMENT

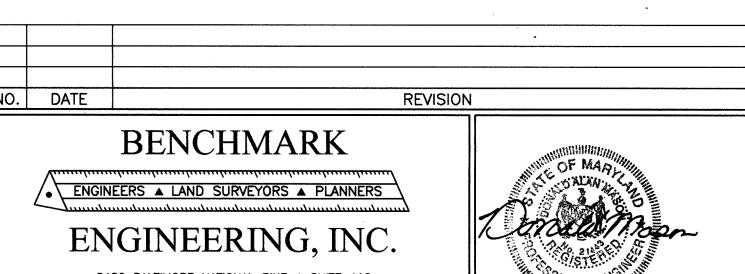
BENCH MARKS - NAD '83 HO. CO. No.18G1 EL.408.542 CONC. MONUMENT AT SURFACE, 4' N. OF MAC. SHOULDER OF RT. 40 WEST 18' W. OF YELLOW BLINKING SIGNAL N 589,984.9578 E 1,367,750.2376 HO. CO. No.24C2 CONC. MONUMENT AT SURFACE 5.5' S. OF LEFT TURN LANE OF RT. 40 WEST 14' E. OF EAST EDGE OF CROSSOVER N 588,648.3158 E 1,366,038.1347



SCALE: 1'' = 2000'

GENERAL NOTES

- 1. THE SUBJECT PROPERTY IS ZONED R-A-15 PER THE 1993 COMPREHENSIVE ZONING PLAN. IN ACCORDANCE WITH SECTION 128 OF THE HOWARD COUNTY ZONING REGULATIONS, BAY WINDOWS, CHIMNEYS OR EXTERIOR STAIRWAYS NOT MORE THAN 16 FEET IN WIDTH MAY PROJECT NOT MORE THAN 4 FEET INTO ANY SETBACKS; PORCHES OR DECKS, OPEN OR ENCLOSED MAY PROJECT NO MORE THAN 10 FEET INTO THE FRONT OR REAR YARD SETBACKS.
- 3. NO GRADING SHALL OCCUR WITHIN WETLANDS, WETLANDS BUFFERS, STREAMS, STREAM BUFFERS, FLOODPLAIN OR STEEP SLOPES LOCATED ON THIS SITE, EXCEPT AS APPROVED AS PART OF
- 4. ALL LANDSCAPING REQUIREMENTS SHALL BE IN ACCORDANCE WITH THE HOWARD COUNTY LANDSCAPE MANUAL AND SECTION 16.124(b)(3)(ii) OF THE SUBDIVISION REGULATIONS.
- FINANCIAL SURETY FOR THE REQUIRED LANDSCAPING WILL BE POSTED AS PART OF THE GRADING PERMIT APPLICATION UNDER SDP-02-022 IN THE AMOUNT OF \$23,850.00
- THE FOREST CONSERVATION REQUIREMENTS FOR THIS SITE ARE PROVIDED BY ON-SITE RETENTION & REFORESTATION AND OFF-SITE REFORESTATION AS SHOWN ON THE FOREST CONSERVATION PLAN INCLUDED IN APPROVED ROAD CONSTRUCTION PLANS F-01-025
- 7. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF HOWARD COUNTY, PLUS MSHA STANDARDS AND SPECIFICATIONS, IF APPLICABLE.
- 8. THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS, CONSTRUCTION INSPECTION DIVISION AT 410-313-1880 AT LEAST FIVE(5) WORKING DAYS PRIOR TO THE START OF WORK.
- 9. THE CONTRACTOR SHALL NOTIFY "MISS UTILITY" @ 1-800-257-7777 AT LEAST 48 HOURS
- PRIOR TO ANY EXCAVATION WORK. THE CONTOURS SHOWN HEREON HAVE BEEN TAKEN FROM FIELD RUN TOPOGRAPHIC SURVEYS AT 2' INTERVALS PREPARED BY TSA GROUP, INC., ON OR ABOUT JULY, 97 AS SHOWN ON APPROVED
- ROAD CONSTRUCTION PLANS F-01-025. 11. VERTICAL CONTROL AND HORIZONTAL CONTROL BASED UPON HOWARD COUNTY NAD '83 CONTROL
- STATIONS No.18G1 & No.24C2 12. THIS PROPERTY IS WITHIN THE METROPOLITAN WATER AND SEWER DISTRICT.
- 13. WATER AND SEWER FOR THIS PROJECT IS PUBLIC, CONTRACT No. 14-3866-D.
- DRAINAGE AREA IS IN THE PATAPSCO WATERSHED.
- 14. STORMWATER MANAGEMENT FOR THIS PARCEL WAS PREVIOUSLY PROVIDED WITHIN THE SWMF CONSTRUCTED AS PART OF F-01-025. 15. AN ADEQUATE PUBLIC FACILITIES ORDINANCE TRAFFIC ANALYSIS FOR PHASE 1 WAS PERFORMED BY
- LEE CUNNINGHAM & ASSOC., INC. DATED AUGUST, 1997 AND APPROVED UNDER S-95-01A, F-98-012 AND SDP-98-129; AN ADEQUATE PUBLIC FACILITIES ORDINANCE TRAFFIC ANALYSIS FOR PHASE 2 WAS PERFORMED BY THE TRAFFIC GROUP, INC. DATED NOVEMBER, 1999 AND APPROVED UNDER SP-00-003
- 16. TRAFFIC CONTROL DEVICES, MARKINGS AND SIGNING SHALL BE IN ACCORDANCE WITH THE MOST CURRENT EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). ALL STREET AND REGULATORY SIGNS SHALL BE IN PLACE PRIOR TO THE PLACEMENT OF ANY ASPHALT
- ALL PROPOSED EXTERIOR LIGHTING SHALL BE DIRECTED/REFLECTED AWAY FROM ALL ADJACENT PUBLIC ROADS AND RESIDENTIAL ZONING DISTRICTS IN ACCORDANCE WITH SECTION 134 OF THI HOWARD COUNTY ZONING REGULATIONS.
- 18. EXISTING UTILITIES SHOWN WERE LOCATED BY RECORD DRAWINGS AND FIELD LOCATIONS.
- 19. UNLESS NOTED AS "PRIVATE", ALL EASEMENTS ARE PUBLIC.
- 20. CONTRACTOR SHALL VERIFY ALL UTILITY LOCATIONS PRIOR TO ANY CONSTRUCTION ACTIVITY AND SHALL ADJUST ALL UTILITIES AND RIM ELEVATIONS AS NEEDED TO MATCH THIS PLAN.
- 21. ALL DIMENSIONS ARE TO THE FACE OF CURB UNLESS OTHERWISE NOTED.
- 22. BRL INDICATES BUILDING RESTRICTION LINE.
- 23. ANY DAMAGE TO THE COUNTY'S RIGHT-OF WAY SHALL BE CORRECTED AT THE BUILDERS EXPENSE.
- 24. TO THE BEST OF OUR KNOWLEDGE THERE ARE NO CEMETERY LOCATIONS ON-SITE. 25. THE STAKING OF FOUNDATIONS PRIOR TO CONSTRUCTION TO ENSURE COMPLIANCE WITH REGULATORY
- BUILDING RESTRICTION LINES IS RECOMMENDED.
- 26. PREVIOUS DEPARTMENT OF PLANNING AND ZONING REFERENCE NUMBERS INCLUDE: S-98-005, SP-00-003, P-99-017, F-00-102, F-01-025
- 27. THERE ARE NO EXISTING STRUCURES LOCATED ON-SITE.
- 28. AS A CONSEQUENCE OF IT'S SUBMISSION PRIOR TO NOVEMBER 15, 2001, THIS PLAN IS SUBJECT TO COMPLIANCE WITH THE FOURTH EDITION OF THE HOWARD COUNTY SUBDIVISION REGULATIONS.



8480 BALTIMORE NATIONAL PIKE ▲ SUITE 418 ELLICOTT CITY, MARYLAND 21043 PHONE: 410-465-6105 E-MAIL: benchmrk@cais.com

KAISER FARM

KAISER FARM, L.L.C. SINGLE-FAMILY ATTACHED HOMES P.O. BOX 417 LOTS 1 THRU 71 AND 74 THRU 80 ELLICOTT CITY, MD 21041 PHONE: 410-465-4244 RYLAND HOMES

7250 PARKWAY DRIVE SUITE 520 HANOVER, MD 21076

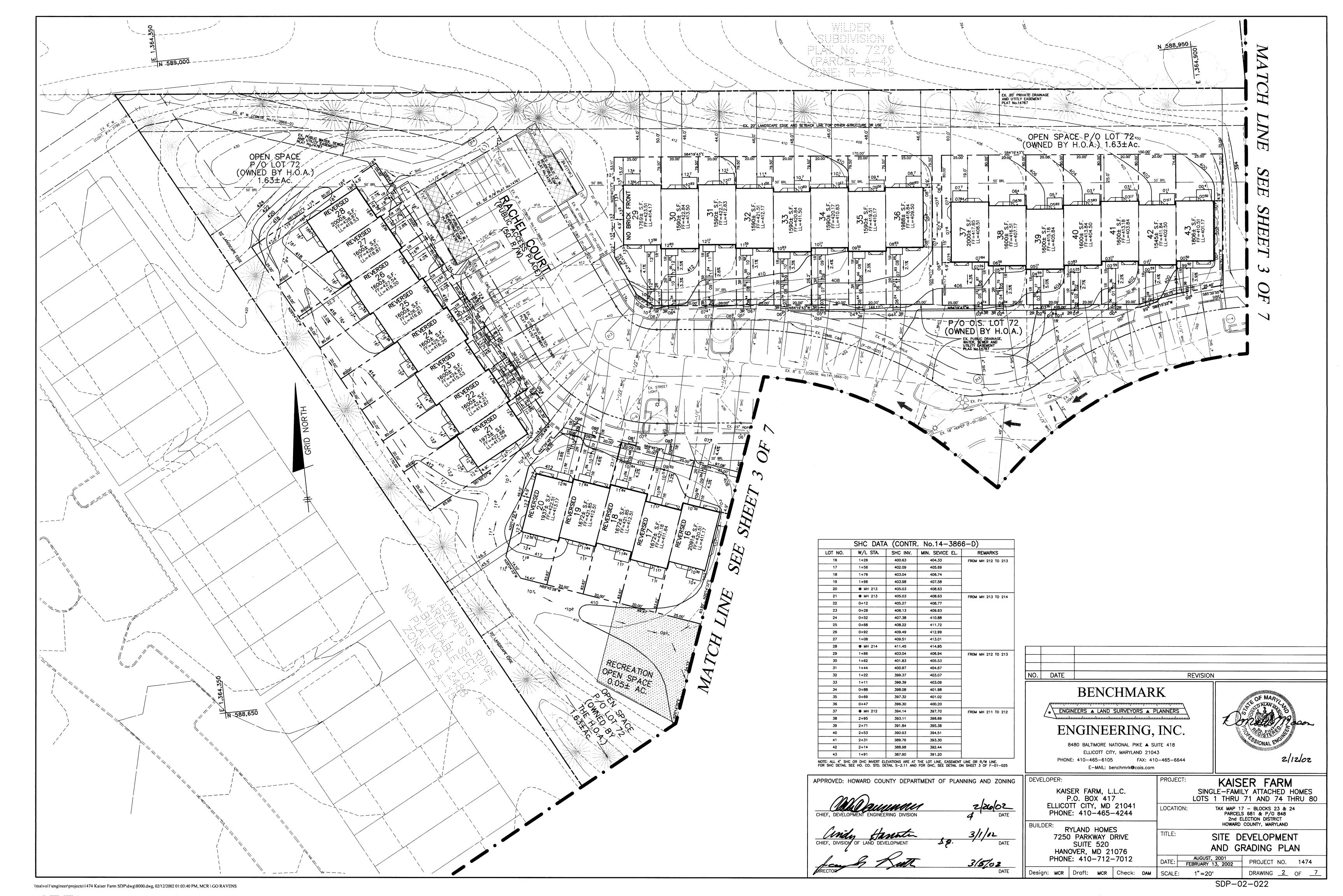
PHONE: 410-712-7012

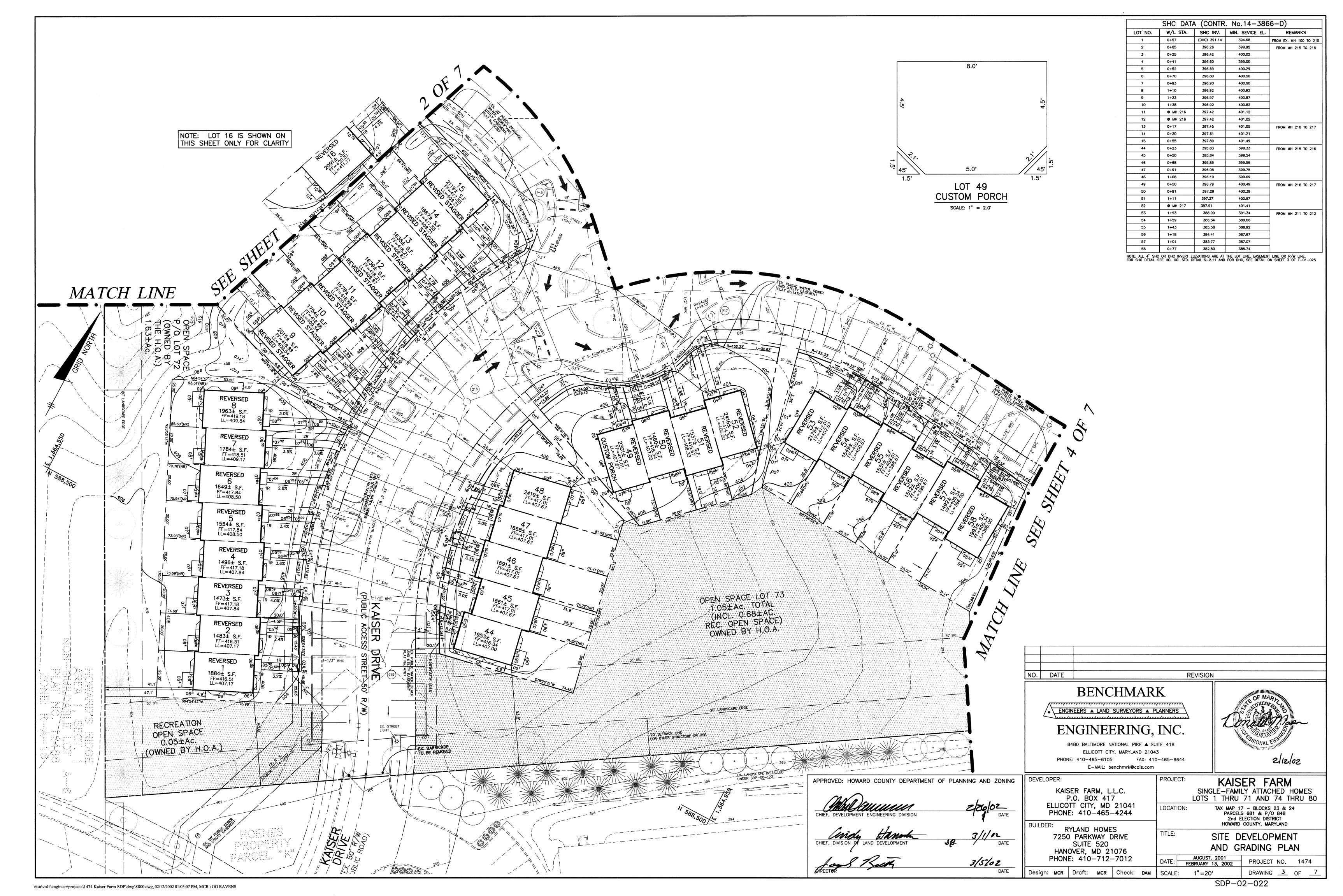
Design: MCR | Draft: MCR | Check: DAM

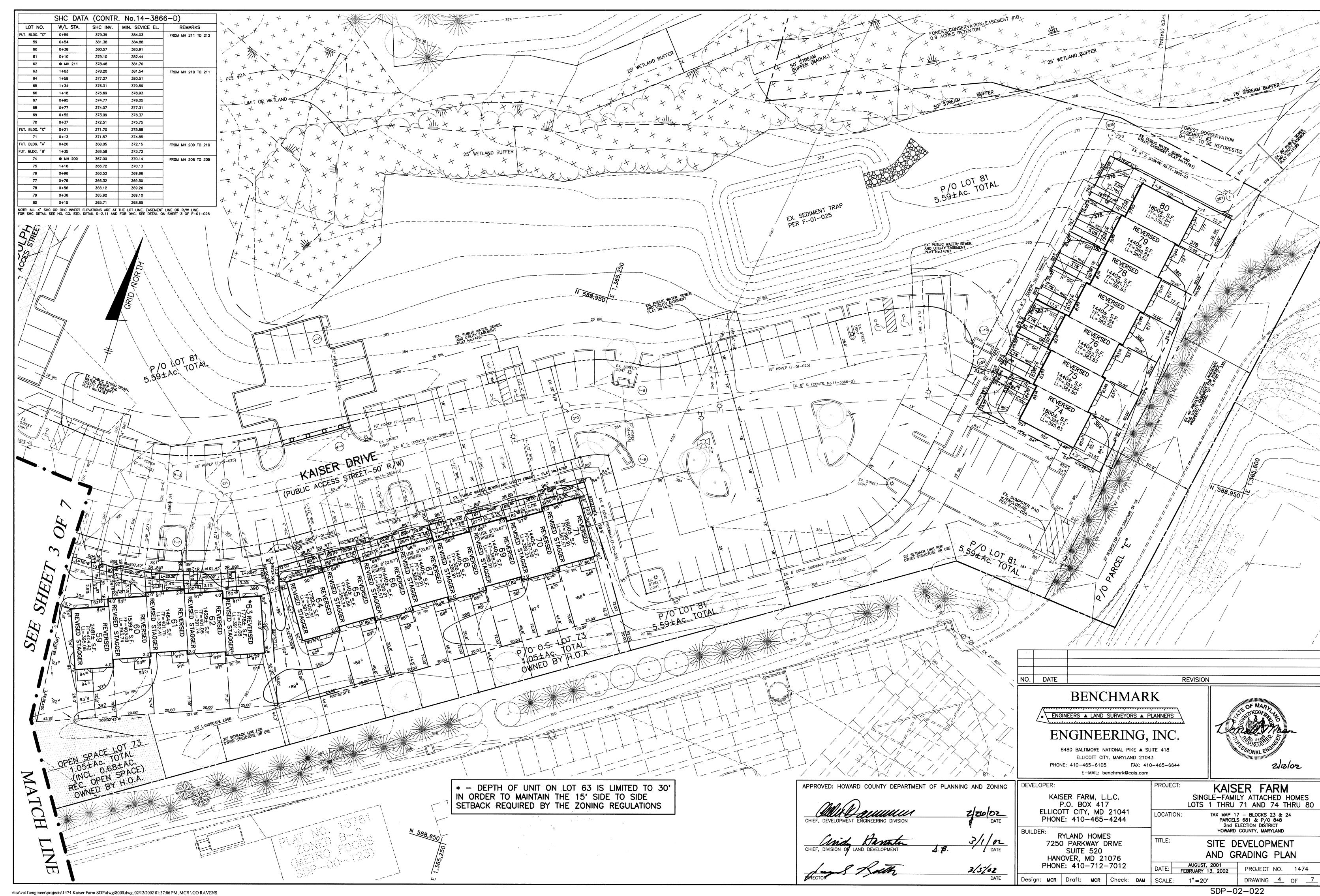
TAX MAP 17 - BLOCKS 23 & 24 PARCELS 681 & P/O 848 2nd ELECTION DISTRICT HOWARD COUNTY, MARYLAND

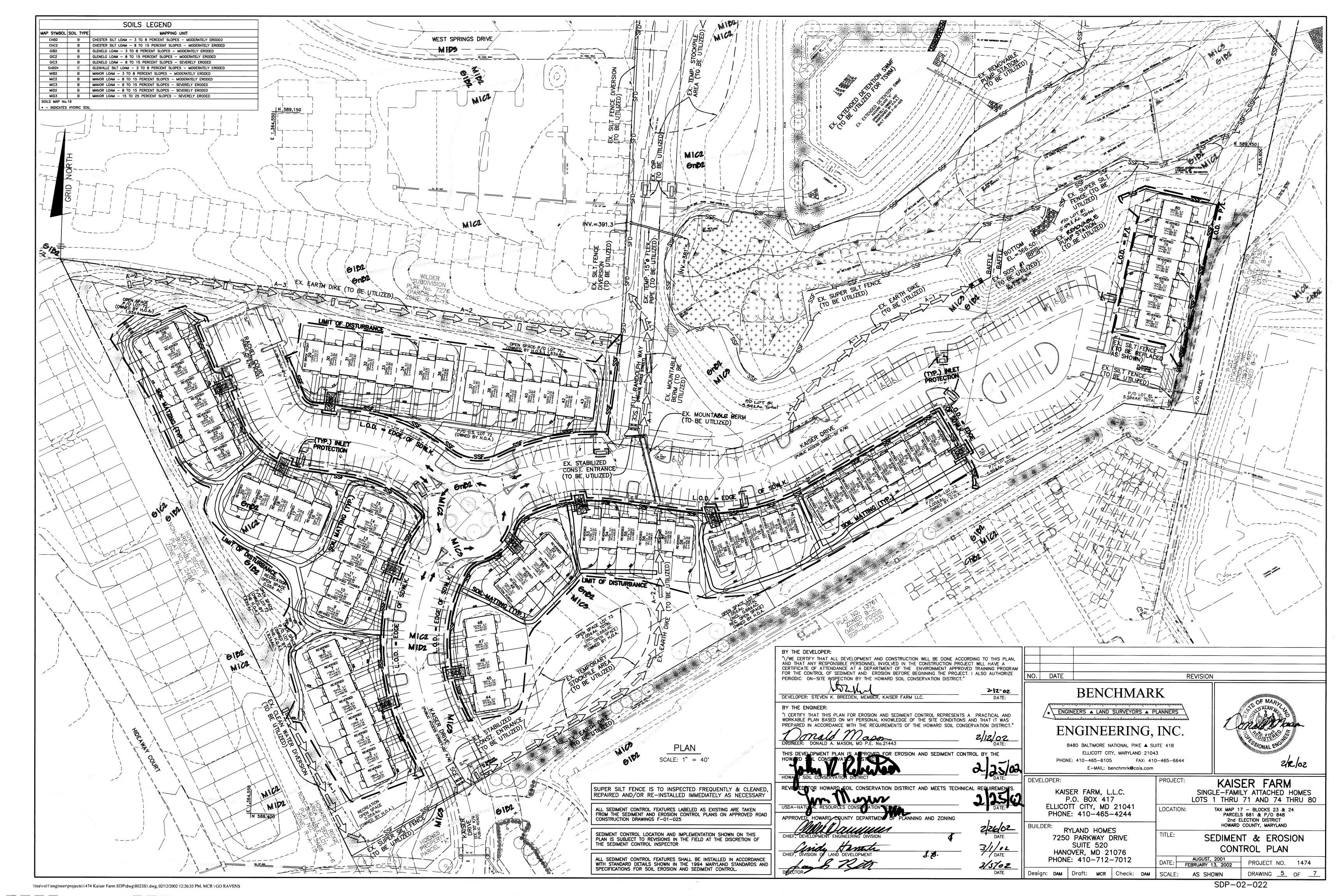
COVER SHEET PROJECT NO. 1474

> DRAWING 1 OF 1SDP-02-022









- A MINIMUM OF 48 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY DEPARTMENT OF INSPECTIONS AND PERMITS SEDIMENT CONTROL DIVISION PRIOR TO THE START OF ANY CONSTRUCTION.
- ALL VEGETATIVE AND STRUCTURAL PRACTICES ARE TO BE INSTALLED ACCORDING TO THE PROVISIONS OF THIS PLAN AND ARE TO BE IN CONFORMANCE WITH THE 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT
- FOLLOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE, 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.
- 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 1994 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. 52). TEMPORARY STABILIZATION WITH MULCH ALONE CAN ONLY BE DONE WHEN RECOMMENDED SEEDING DATES DO NOT ALLOW FOR PROPER GERMINATION AND
- 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.

ACRES

ACRES

ACRES

_ ACRES

__ CU. YDS.

| 7. | SITE ANALYSIS: | |
|----|-----------------------|---------|
| | TOTAL AREA OF SITE | |
| | TOTAL AREA DISTURBED | |
| | AREA TO BE ROOFED OR | PAVED |
| | AREA TO BE VEGETATIVE | LY STAE |
| | TOTAL CUT | |

- ABILIZED OFFSITE BORROW
- 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 SEDIMENT CONTROL INSPECTOR.
- O. ON ALL SITES WITH DISTURBED AREAS IN EXCESS OF 2 ACRES. APPROVAL OF THE INSPECTION AGENCY SHALL BE REQUESTED UPON COMPLETION OF INSTALLATION OF PERIMETER EROSION AND SEDIMENT CONTROLS. BUT BEFORE PROCEEDING WITH ANY OTHER EARTH DISTURBANCE OR GRADING. OTHER BUILDING OR GRADING INSPECTION APPROVALS MAY NOT BE AUTHORIZED UNTIL THIS INITIAL APPROVAL BY THE INSPECTION AGENCY IS MADE.
- TRENCHES FOR THE CONSTRUCTION OF UTILITIES ARE LIMITED TO THREE PIPE LENGTHS OR THAT WHICH CAN BE BACK FILLED AND STABILIZED WITHIN ONE WORKING DAY, WHICHEVER IS SHORTER.
- " IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO IDENTIFY AN OFF-SITE BORROW AREA WITH AN APPROVED SEDIMENT & EROSION CONTROL PLAN.

TEMPORARY SEEDBED PREPARATION

APPLY TO GRADED OR CLEARED AREAS LIKELY TO BE REDISTURBED WHERE A SHORT-TERM VEGETATIVE COVER IS NEEDED.

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

SOIL AMENDMENTS: APPLY 600 LBS PER ACRE 10-10-10 FERTILIZER (14 LBS/1000 SQ FT).

SEEDING: FOR PERIOD MARCH 1 THROUGH APRIL 30 AND FROM AUGUST 15 THROUGH NOVEMBER 15, SEED WITH 2-1/2 BUSHELS PER ACRE OF ANNUAL RYE (3.2 LBS/1000 SQ FT), FOR THE PERIOD MAY 1 THROUGH AUGUST 14. SEED WITH 3 LBS PER ACRE OF WEEPING LOVEGRASS (.07 LBS/1000 SQ FT), FOR THE PERIOD NOVEMBER 16 THROUGH 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 MUICH IMMEDIATELY AFTER APPLICATION USING MUICH ANCHORING TOOL OR 218 GALLONS PER ACRE (5 GAL/1000 SQ FT) OF EMULSIFIED ASPHALT ON FLAT AREAS. ON SLOPES, 8 FT. OR HIGHER, USE 348 GALLONS PER ACRE

REFER TO THE 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR RATE AND METHODS NOT COVERED.

PERMANENT SEEDBED PREPARATION

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

SOIL AMENDMENTS: IN LIEU OF SOIL TEST RECOMMENDATIONS. USE ON OF THE FOLLOWING SCHEDULES:

- PREFERRED APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE (92 LBS/1000 SQ FT) AND 600 LBS PER ACRE 10-10-10 FERTILIZER (14 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
- 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

SEEDING: FOR THE PERIODS MARCH 1 THROUGH APRIL 30 AND AUGUST 1 THROUGH OCTOBER 15, SEED WITH 60 LBS PER ACRE (1.4 LBS/1000 SQ FT) OF 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 THROUGH 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 PER ACRE OF KENTUCKY 31 TALL FESCUE AND MULCH WITH 2 TONS PER ACRE OF 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 218 GALLONS PER ACRE (5 GAL/1000 SQ FT) OF EMULSIFIED ASPHALT ON FLAT AREAS. ON SLOPES 8 FEET OR HIGHER, USE 348 GALLONS PER ACRE (8 GAL/1000 SQ FT) FOR ANCHORING.

MAINTENANCE: INSPECT ALL SEEDED AREAS AND MAKE NEEDED REPAIRS. REPLACEMENTS AND RESEEDINGS.

21.0 STANDARD AND SPECIFICATIONS FOR TOPSOIL

<u>Definition</u>

Placement of topsoil over a prepared subsoil prior to establishment of permanent vegetation. To provide a suitable medium for vegetative growth. Soils of concern have low moisture

content, low nutrient levels, low pH, materials toxic to plants, and/or unacceptable soil

Conditions Where Practice Applies

1. This practice is limited to areas having 2:1 or flatter slopes where:

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

Construction and Material Specifications

- Topsoil salvaged from the existing site may be used provided that it meets the standards as set forth in these specifications. Typically, the depth of topsoil to be salvaged for a given soil type can be found in the representative soil profile section in the Soil Survey published by USDA—SCS in cooperation with Maryland Agricultural Experimental Station.
- II. Topsoil Specifications Soil to be used as topsoil must meet the following:
- i. Topsoil shall be a loam, sandy loam, clay loam, silt loam, sandy clay loam, loamy sand. Other soils may be used if recommended by an agronomist or soil scientist and approved by the appropriate approval authority. Regardless, topsoil shall not be a mixture of contrasting textured subsoils and shall contain less than 5% by volume of cinders, stones, slag, coarse fragments, gravel, sticks, roots, trash, or other materials larger than 1 ½"
- ii. Topsoil must be free of plants or plant parts such as Bermuda grass, quack grass, Johnson grass, nutsedge, poison ivy, thistle, or others as specified.
- iii.Where the subsoil is either highly acidic or composed of heavy clays, ground limestone shall be spread at the rate of 4-8 tons/acre (200-400 pounds per 1,000 square feet) prior to the placement of topsoil. Lime shall be distributed uniformly over designated areas and worked into the soil in conjunction with tillage operations as described in the following procedures.
- III. For sites having disturbed areas under 5 acres:
- i. Place topsoil (if required) and apply soil amendments as specified in 20.0 Vegetative Stabilization - Section I - Vegetative Stabilization Methods and Materials.
- IV. For sites having disturbed areas over 5 acres:
 - i. On soil meeting topsoil specifications, obtain test results dictating fertilizer and lime amendments required to bring the soil into compliance with the following:
 - a. pH for topsoil shall be between 6.0 and 7.5. If the tested soil demonstrates a pH of less than 6.0, sufficient lime shall be prescribed to raise the pH to 6.5 or higher.
 - b. Organic content of topsoil shall be not less than 1.5 percent by weight.
 - c. Topsoil having soluble salt content greater than 500 parts per million shall not be used.
 - d. No sod or seed shall be placed on soil which has been treated with soil sterilants or chemicals used for weed control until sufficient time has elapsed (14 days min.) to permit dissipation of phyto-toxic materials.
- Topsoil substitutes or amendments, as recommended by a qualified agronomist or soil scientist and approved by the appropriate approval authority, may be used in lieu of natural topsoil.
- ii. Place topsoil (if required) and apply soil amendments as specified in 20.0 Vegetative Stabilization - Section I - Vegetative Stabilization Methods and Materials.
- V. Topsoil Application
- i. When topsoiling, maintain needed erosion and sediment control practices such as diversion, Grade Stabilization Structures, Earth Dikes, Slope Silt Fence and Sediment Traps and Basins.
- ii. Grades on the areas to be topsoiled, which have been previously established, shall be maintained,
- iii. Topsoil shall be uniformly distributed in a 4"-8" layer and lightly compacted to a minimum thickness of 4". Spreading shall be performed in such a manner that sodding or seeding can proceed with a minimum of additional preparation and tillage. Any irregularities in the surface resulting from topsoiling or other operations shall be corrected in order to prevent the formation of depressions or water pockets.
- iv. Topsoil shall not be placed while the topsoil or subsoil is in a frozen or muddy condition, when the subsoil is excessively wet or in a condition that may otherwise be detrimental to proper grading and seedbed preparation. G-21-2
- VI. Alternative for Permanent Seeding Instead of applying the full amounts of lime and commercial fertilizer, composted sludge and amendments may be applied as specified below:
 - i. Composted Sludge Material for use as a soil conditioner for sites having disturbed areas over 5 acres shall be tested to prescribed amendments and for sites having disturbed areas under 5 acres shall conform to the following requirements:
 - a. Composted sludge shall be supplied by, or originate from, a person or persons that are permitted (at the time of acquisition of the compost) by the Maryland Department of the Environment under COMAR 26.04.06.
 - b. Composted sludge shall contain at least 1 percent nitrogen, 1.5 percent phosphorus, and 0.2 percent potassium and have a pH of 7.0 to 8.0. If compost does not meet these requirements, the appropriate constituents must be added to meet the requirements prior to use.
 - c. Composted sludge shall be applied at a rate of 1 ton/1,000 square feet.
 - iv. Composted sludge shall be amended with a potassium fertilizer applied at the rate of 4 lb/1,000 square feet, and 1/3 the normal lime application rate.

References: Guideline Specifications, Soil Preparation and Sodding. MD-VA, Pub. #1, Cooperative Extension Service, University of Maryland and Virginia Polytechnic Institutes. Revised 1973

SEQUENCE OF CONSTRUCTION

OBTAIN GRADING PERMIT.

INSTALL SEDIMENT CONTROL DEVICES.

UPON APPROVAL OF HOWARD COUNTY SEDIMENT CONTROL INSPECTOR, BEGIN LOT GRADING AND BUILDING CONSTRUCTION.

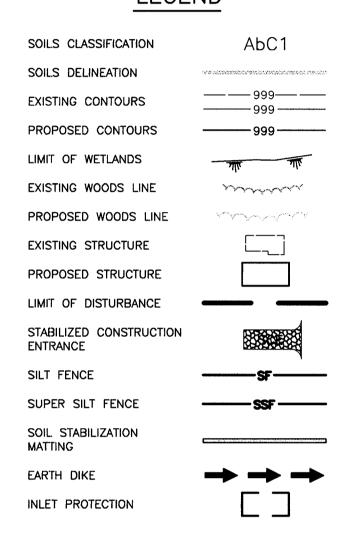
AND STABILIZE IN ACCORDANCE WITH PERMANENT SEEDBED NOTES.

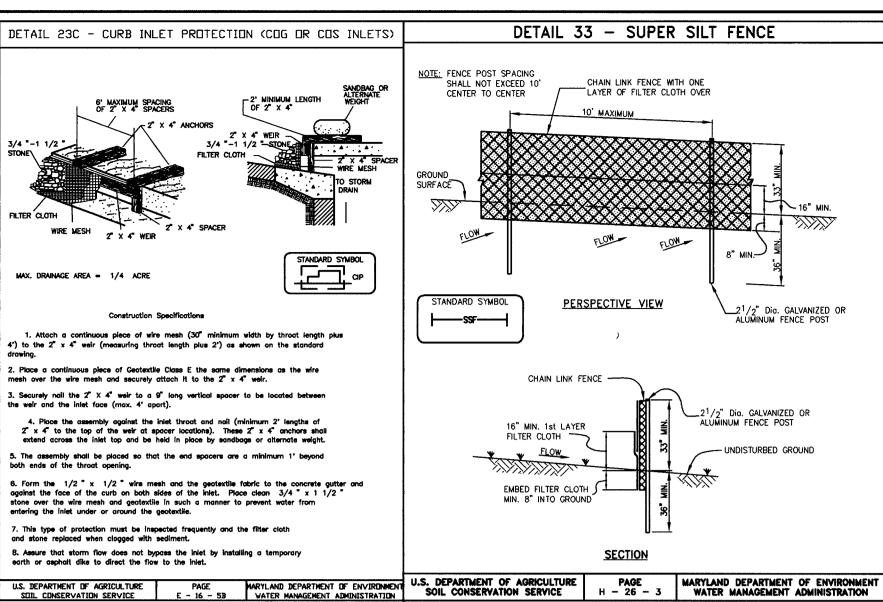
DAY 53-55 SPREAD TOPSOIL IN ACCORDANCE WITH TOPSOIL SPECIFICATIONS

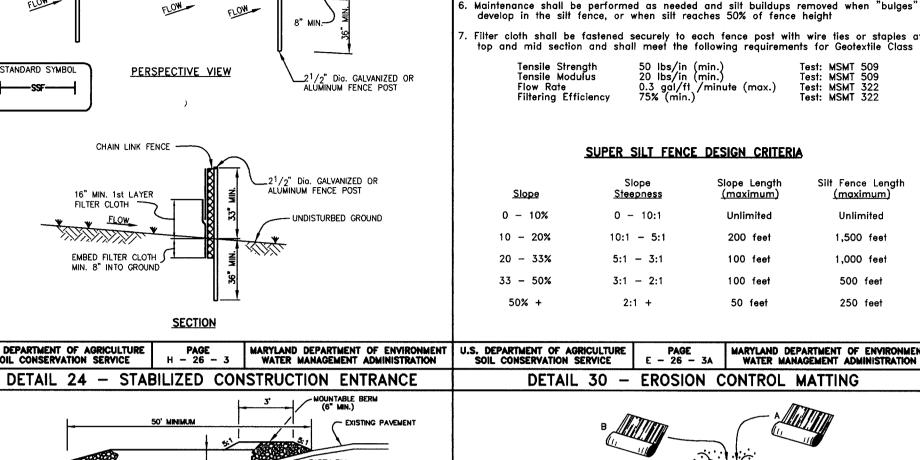
DAY 56-60 UPON APPROVAL OF HOWARD COUNTY SEDIMENT CONTROL INSPECTOR, REMOVE ALL SEDIMENT CONTROL DEVICES AND PERMANENTLY STABILIZE REMAINING DISTURBED AREAS AS REQUESTED IN ACCORDANCE WITH PERMANENT SEEDBED NOTES.

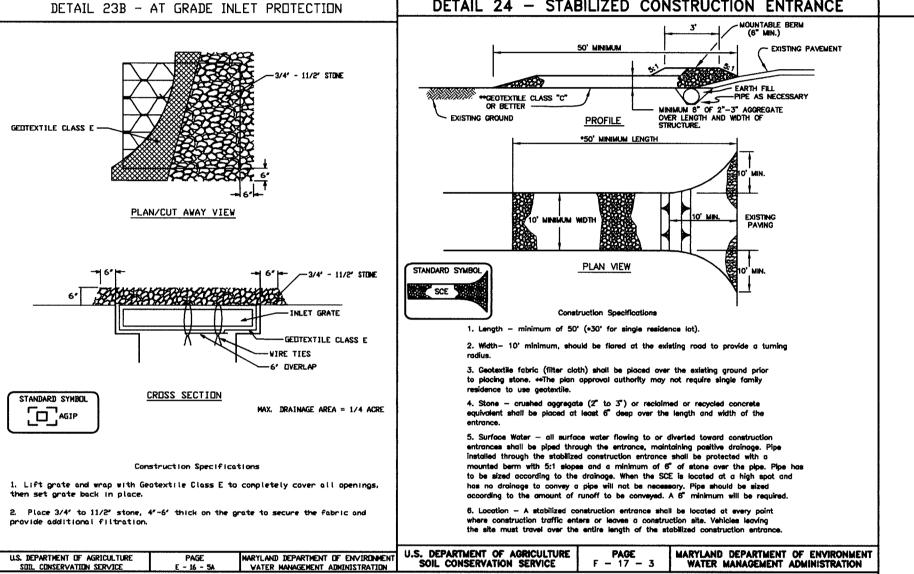
* NOTE: SEQUENCE IS REPRESENTATIVE OF THE CONSTRUCTION OF ONE BUILDING.

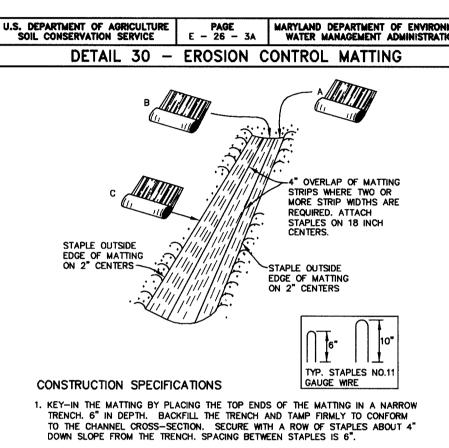
LEGEND











SUPER SILT FENCE

CONSTRUCTION SPECIFICATIONS

. Fencing shall be 42" in height and constructed in accordance with the latest Maryland State Highway Details for Chain Link Fencing. The specification for a 6' fence shall be used, substituting 42" fabric and 6' length posts.

Chain link fence shall be fastened securely to the fence posts with wire ties. The

Filter cloth shall be fastened securely to the chain link fence with ties spaced every

When two sections of filter cloth adjoin each other, they shall be overlapped by 6" and folder

lower tension wire, brace and truss rods, drive anchors and post caps are not

Filter cloth shall be embedded a minimum of 8" into the ground.

required except on the ends of the fence.

24" at the top and mid section.

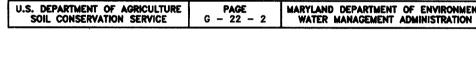
- 2. STAPLE THE 4" OVERLAP IN THE CHANNEL CENTER USING AN 18" SPACING
- BEFORE STAPLING THE OUTER EDGES OF THE MATTING, MAKE SURE THE MATTING IS SMOOTH AND IN FIRM CONTACT WITH THE SOIL. STAPLES SHALL BE PLACED 2' APART WITH 4 ROWS FOR EACH STRIP, 2 OUTER ROWS, AND 2 ALTERNATING ROWS DOWN THE CENTER. 5. WHERE ONE ROLL OF MATTING ENDS AND ANOTHER BEGINS, THE END OF THE TOP STRIP SHALL OVERLAP THE UPPER END OF THE LOWER STRIP BY 4". SHIPLAP FASHION

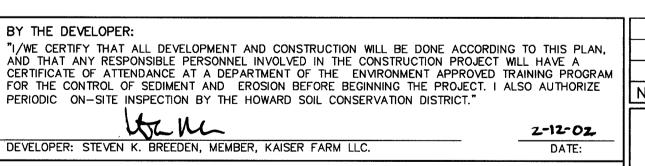
EFFECTED BY THE FLOW MUST BE KEYED-IN.

6. THE DISCHARGE END OF THE MATTING LINER SHOULD BE SIMILARLY SECURED WITH WITH 2 DOUBLE ROWS OF STAPLES.

REINFORCE THE OVERLAP WITH A DOUBLE ROW OF STAPLES SPACED 6" APART IN A

SOIL STABILIZATION MATTING NOT TO SCALE





PLAN/CUT AWAY VIEW

CROSS SECTION

Construction Specifications

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." 2/12/02

OVED FOR EROSION AND SEDIMENT CONTROL BY THE

FROM THE SEDIMENT AND EROSION CONTROL PLANS ON APPROVED ROAD CONSTRUCTION DRAWINGS F-01-025 SEDIMENT CONTROL LOCATION AND IMPLEMENTATION SHOWN ON THIS PLAN IS SUBJECT TO REVISIONS IN THE FIELD AT THE DISCRETION OF THE SEDIMENT CONTROL INSPECTOR

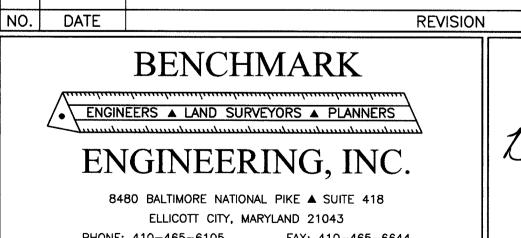
SUPER SILT FENCE IS TO INSPECTED FREQUENTLY & CLEANED,

REPAIRED AND/OR RE-INSTALLED IMMEDIATELY AS NECESSARY

ALL SEDIMENT CONTROL FEATURES LABELED AS EXISTING ARE TAKEN

ALL SEDIMENT CONTROL FEATURES SHALL BE INSTALLED IN ACCORDANCE WITH STANDARD DETAILS SHOWN IN THE 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.

2/27/0 REVIEWE HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS. APPROVED: HOWARD COUNTY DEPARTMENT OF PLAN S AND ZONING 2/26/02 DATE 7/1/62



PHONE: 410-712-7012

Design: DAM | Draft: MCR | Check: DAM



PHONE: 410-465-6105 FAX: 410-465-6644 E-MAIL: benchmrk@cais.com **DEVELOPER:** KAISER FARM KAISER FARM, L.L.C. SINGLE-FAMILY ATTACHED HOMES P.O. BOX 417 LOTS 1 THRU 71 AND 74 THRU 80 ELLICOTT CITY, MD 21041 TAX MAP 17 - BLOCKS 23 & 24 PHONE: 410-465-4244 PARCELS 681 & P/O 848 2nd ELECTION DISTRICT HOWARD COUNTY, MARYLAND RYLAND HOMES ITLE: SEDIMENT & EROSION CONTROL 7250 PARKWAY DRIVE SUITE 520 NOTES AND DETAILS HANOVER, MD 21076

SCALE:

AUGUST, 2001

AS SHOWN DRAWING $\underline{6}$ OF $\underline{7}$ SDP-02-022

PROJECT NO. 1474

