GENERAL NOTES

- 1. ALL CONSTRUCTION AS SHOWN ON THESE PLANS IS TO BE TO CONDUCTED IN ACCORDANCE WITH HOWARD COUNTY STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION VOLUME IV (OCT. 1990 AND ALL ADDENDA THERE TO) UNLESS OTHERWISE NOTED.
- 2. THE LOCATION OF EXISTING UTILITIES AS SHOWN ON THIS PLAN ARE BASED ON FIELD LOCATIONS SUPPLEMENTED WITH EXISTING UTILITY DRAWINGS, AND SHOULD BE VERIFIED BY THE CONTRACTOR TO HIS SATISFACTION PRIOR TO CONSTRUCTION. CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PROTECT EXISTING UTILITIES, AND ANY DAMAGE DONE TO THEM DUE TO CONSTRUCTION ACTIVITY SHALL BE REPAIRED IMMEDIATELY AT HIS OWN EXPENSE.
- CONTRACTOR TO NOTIFY HOWARD COUNTY, DEPARTMENT OF PUBLIC WORKS/BUREAU OF ENGINEERING/ CONSTRUCTION INSPECTION DIVISION (410-313-1880) AT LEAST 24 HOURS PRIOR TO STARTING CONSTRUCTION.
- 4. CONTRACTOR TO SCHEDULE PRECONSTRUCTION MEETING WITH HOWARD COUNTY, CONSTRUCTION INSPECTION DIVISION (410-313-1880) PRIOR TO STARTING CONSTRUCTION.
- CONTRACTOR TO NOTIFY MISS UTILITY (1-800-257-7777) AT LEAST 48 HOURS PRIOR TO BEGINNING ANY EXCAVATION WORK.
- 6. CONTRACTOR IS RESPONSIBLE FOR ALL SITE CONDITIONS, CONSTRUCTION REQUIREMENTS, AND SHALL CONFORM TO ALL STATE, FEDERAL, AND COUNTY CONSTRUCTION REGULATIONS. THE CONTRACTOR IS NOT RELIEVED OF RESPONSIBILITY SHOULD ANY REQUIRED ITEMS PERTAINING TO SITE CONSTRUCTION NOT BE INCLUDED ON THESE PLANS. CONTRACTOR IS RESPONSIBLE FOR ALL ITEMS NECESSARY TO COMPLETE THE SITE IMPROVEMENTS AS SHOWN ON THESE PLANS.
 7. ANY DAMAGE TO EXISTING UTILITIES, PAVEMENT, OR CURB AND GUTTER DUE TO CONSTRUCTION ACTIVITY OUTSIDE THE LIMITS OF DISTURBANCE IS TO BE REPLACED BY THE CONTRACTOR AT HIS
- 7.A. THE CONTRACTOR SHALL TEST PIT ALL EXISTING UTILITIES AT LEAST FIVE (5) DAYS PRIOR TO STARTING ANY WORK SHOWN ON THESE DRAWINGS.
- 8. CONTRACTOR IS RESPONSIBLE FOR REPLACING ANY PROPERTY MONUMENTS, MARKERS, SIGNS, LIGHTS,
- OR ANY OTHER EXISTING SITE FEATURES DISTURBED DURING CONSTRUCTION.

 9. ALL WORK SHALL COMPLY WITH ALL APPLICABLE PROVISIONS OF THE "1994 STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROLS" PUBLISHED JOINTLY BY THE WATER RESOURCES ADMINISTRATION, SOIL CONSERVATION SERVICE, AND STATE SOIL CONSERVATION COMMITTEE.
- 10. TOPOGRAPHY BASED ON FIELD RUN SURVEYS BY MORRIS & RITCHIE ASSOCIATES, INC., DATED JANUARY 2002, AND SUPPLEMENTED WITH EXISTING AVAILABLE DESIGN PLANS.
- 11. THE SITE BOUNDARY, BEARINGS, AND COORDINATES SHOWN ARE BASED ON ELECTRONIC FILES OBTAINED FROM CLARK FINEFROCK AND SACKET, INC.
- 12. HORIZONTAL AND VERTICAL CONTROL BASED ON HOWARD COUNTY MONUMENTS NO'S 221A AND 22HA.
- 13. NO 100-YEAR FLOODPLAIN EXISTS NEAR THE PROPOSED CONSTRUCTION AREA.
- 14. WATER IS PRIVATE WELL SUPPLY. SEWER IS PRIVATE ON-SITE SEPTIC.
- 16. SEE PREVIOUS DEPARTMENT OF PLANNING AND ZONING FILES: SDP-01-69, SDP-97-07, SDP-85-76,
- SDP-82-101, SDP-80-144, SDP-78-15, 8A 95-46-E, BA-99-51 E & V.

 17. THE SUBJECT PROPERTY IS ZONED RR-DEO PER THE OCT. 18, 1993 COMPREHENSIVE ZONING PLAN

 18. FOREST STAND DELINEATION AND FOREST CONSERVATION PLAN APPROVED UNDER SDP-97-007.
- 18. FOREST STAND DELINEATION AND FOREST CONSERVATION PLAN APPROVED UNDER SDP-97-007. FOREST CONSERVATION IS BY RETENTION. AREAS OF RETENTION ARE 1.1958 AC., 5.6637 AC., AND 3.2043 AC.FOR A TOTAL OF 10.0638 AC. DEED OF FOREST CONSERVATION EASEMENT AGREEMENT RECORDED IN LIBER 5340 FOLIO 689.
- 18.A. FOREST CONSERVATION AREAS REVISED UNDER RED—LINE REVISION TO SDP—01—69. REVISED AREAS OF RETENTION ARE 1.196 AC., 5.801 AC., AND 3.193 AC. FOR A TOTAL OF 10.190 AC. DEED OF FOREST CONSERVATION EASEMENT AGREEMENT DILL BE RECORDED IN LAND RECORDS OF HOWARD CONSERVATION EASEMENT PLAT RECORDED AS PLAT # 15507
- 19. NO CLEARING OF EXISTING WOODED OR FOREST CONSERVATION AREAS IS PROPOSED FOR THIS PROJECT.
- 20. A TRAFFIC STUDY IS NOT REQUIRED FOR THIS PROJECT.
- 21. A NOISE STUDY IS NOT REQUIRED FOR THIS PROJECT.
- 22. NO EXTERIOR LIGHTING IS PROPOSED IN ASSOCIATION WITH THIS PROJECT. EXTERIOR LIGHTING PRESENTS A NEGATIVE IMPACT UPON THE USE OF THE TELESCOPE.
- 23. A GEOTECHNICAL STUDY WAS CONDUCTED FOR THIS PROJECT BY GEO-TECHNOLOGY ASSOCIATES, INC. DATED AUGUST 31, 2001.
- 24. NO LANDSCAPE REQUIREMENTS ARE GENERATED BY THIS MINOR STRUCTURE PROPOSED WITHIN THE SCHOOL PROPERTY PERIMETER. THE LANDSCAPE CONDITIONS INCLUDED IN THE BOARD OF APPEALS DECISION AND ORDER CASE #99-51E&V AND CASE #95-46E HAVE BEEN PREVIOUSLY MET BY AUGMENTATION OF PLANTINGS ALONG THE SCHOOL'S PERIMETER.
- 25. THE PROPOSED ASTRONOMY OBSERVATORY IS AN ACCESSORY STRUCTURE/USE OF THE SCHOOL AND DOES NOT GENERATE ANY TRAFFIC. NO ADDITIONAL STUDENTS OR FACULTY ARE TO BE ADDED AS A RESULT OF THIS PROJECT. THEREFORE, THIS SOP IS EXEMPT FROM THE TEST FOR ROAD FACILITIES. PER SECTION 16.1107(2)(ii).
- 26. THE PROPOSED OBSERVATORY IS TO BE CONSTRUCTED WELL WITHIN THE REQUIRED SETBACKS ON THE 80-ACRES SITE. THE SPECIAL EXCEPTION APPROVED IN CASE #95-46E REQUIRES A MINIMUM 270 FOOT SETBACK. A MINIMUM SETBACK OF 330 FEET IS PROPOSED.
- 27. BOARD OF APPEALS BA-99-51 E&V WAS GRANTED ON MAY 16, 2000 FOR THE SPECIAL EXCEPTION. THE SPECIAL EXCEPTION REQUESTED THE ENLARGEMENT OF AN EXISTING PRIVATE SCHOOL AND A VARIANCE TO REDUCE THE REQUIRED 30' STRUCTURE AND USE SETBACK TO 0' FOR THE IMPROVEMENTS ASSOCIATED WITH THE PROPOSED NEW PRIMARY SCHOOL, AND IS SUBJECT TO THE FOLLOWING CONDITIONS
- THE SPECIAL EXCEPTION SHALL APPLY TO THE INCLUSION OF PARCEL 345 INTO THE SPECIAL EXCEPTION SITE, AND THE CONSTRUCTION OF IMPROVEMENTS AS DEPICTED ON THE SPECIAL EXCEPTION PLAN DATED NOVEMBER 8, 1999, AND TO NO OTHER STRUCTURES AND/OR USES.
 EXISTING VEGETATION SHALL BE AUGMENTED TO CREATE A TYPE C LANDSCAPE BUFFER ALONG THE LOT LINES OF PARCEL 345 THAT DO NOT ADJOIN PARCEL 146.
- LINES OF PARCEL 345 THAT DO NOT ADJOIN PARCEL 146.

 3. ALL NEW LIGHTING SHALL COMPLY WITH SECTION 134 OF THE HOWARD COUNTY ZONING REGULATIONS

PLEASANT PROSPECT

ROAD

515

- 4. THE PETITIONER SHALL COMPLY WITH THE REQUIREMENTS OF THE BUREAU OF ENVIRONMENTAL HEALTH REGARDING SEWAGE DISPOSAL.
- 4. THE PETITIONER SHALL COMPLY WITH ALL APPLICABLE FEDERAL, STATE, & COUNTY LAWS & REGULATIONS.

 28. WAIVER PETITION WP-01-55 WAS APPROVED ON JAN. 11, 2001 TO WAIVE SECTIONS 16.116(a)(1),
- 28. WAIVER PETITION WP-01-55 WAS APPROVED ON JAN. 11, 2001 TO WAIVE SECTIONS 16.116(a)(1), 16.116.(a)(1), AND 16.116.(a)(2)(ii) TO ALLOW GRADING WITHIN 25' OF WETLANDS AND WITHIN 75' OF A PERENNIAL STREAM FOR THE PURPOSE OF RECONSTRUCTING THE EXISTING POND, SUBJECT TO THE FOLLOWING:
- 1. COMPLY WITH CONDITIONS IMPOSED BY MDE REGARDING STREAM, WETLANDS, BUFFER DISTURBANCE AND POND RECONSTRUCTION TO BE ACCOMPLISHED UNDER THE CURRENT SITE DEVELOPMENT PLAN FOR PHASE 4 OF THE SCHOOL PROJECT (SDP-01-69). REFERENCE THE APPLICABLE MDE PERMIT NUMBER OF THE SITE PLAY
- 2. ENSURE THAT DISTURBANCE IS TO THE MINIMUM EXTENT NECESSARY TO COMPLETE THE STREAM RESTORATION AND TO INSTALL THE NEW POND, AND ENSURE THAT A CLEAR LOD IS SET AND MARKED PRIOR TO WORK AND MAINTAINED DURING WORK RELATED TO THE EXISTING POND AND PROPOSED SWM POND.
- 3. PROVIDE TREE PROTECTION FENCE AND SIGNAGE ALONG BOTH OF THE FOREST CONSERVATION EASEMENT AREAS IN THE VICINITY OF THE PROPOSED LOD FOR THE PROPOSED WORK IF THE FENCE AND SIGNAGE ARE NOT ALREADY IN PLACE.

PROP. SUPPORT

BUILDING

332.0

- 4. THIS WAIVER APPLIES ONLY TO GRADING AND CLEARING FOR REMOVAL OF THE EXISTING POND AND RELATED STREAM, STREAM BUFFER, WETLANDS AND WETLANDS BUFFER DISTRUBANCE; TO RECONSTRUCTION OF THE STREAM BED, AND TO THE CREATION OF THE SWM FACILITY ON THIS SITE AND TO NO OTHER SITE DESIGN ISSUES.
- PLEASE NOTE, WAIVER PETITION WP-01-55 DOES NOT APPLY TO ANY SITE IMPROVEMENTS PROPOSED UNDER THIS SDP.

THE GLENELG COUNTRY SCHOOL, TAX MAP 22 PARCEL 146

-PROP. OBSERVATORY

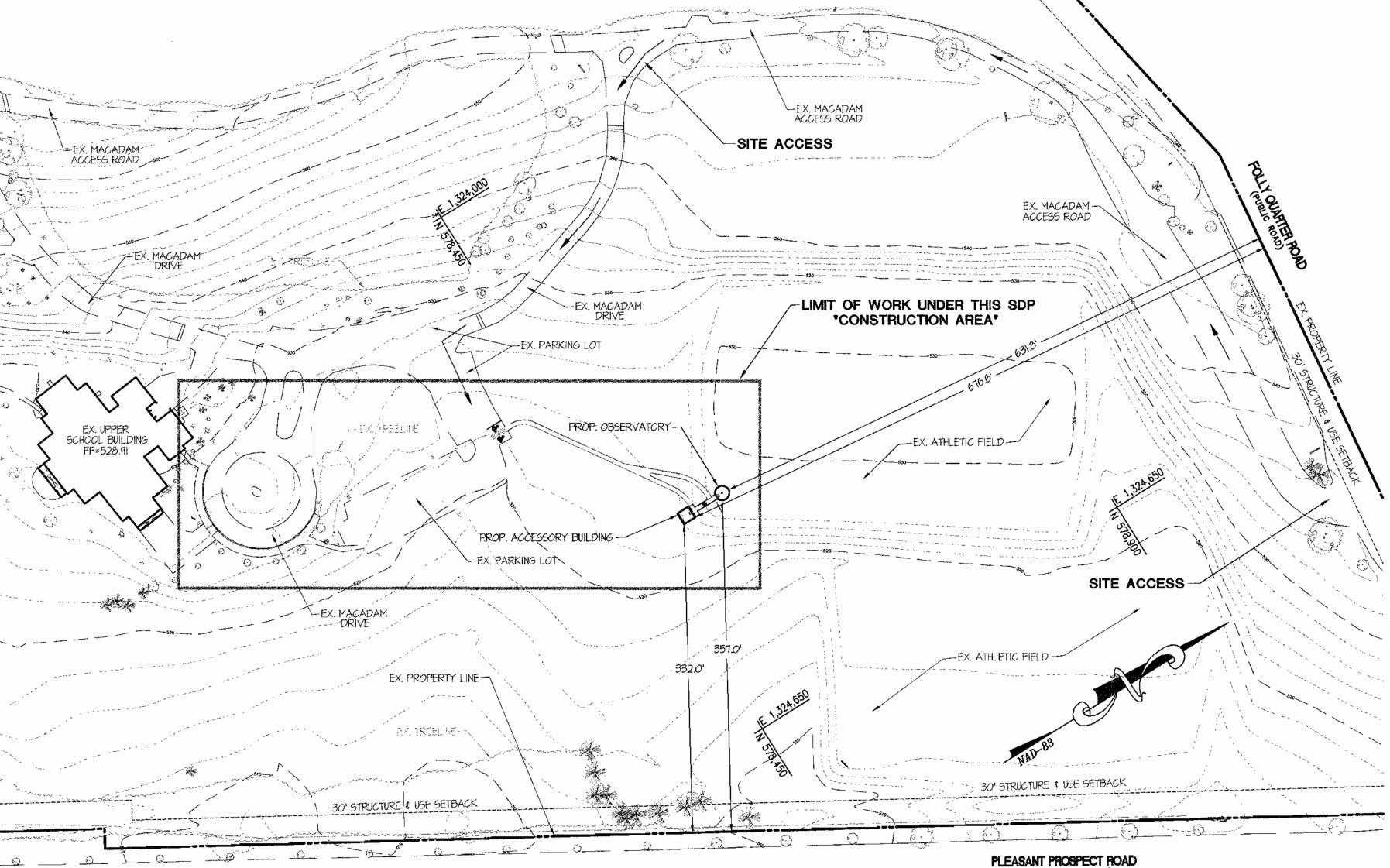
EX. GROUND -

SCALE: HORIZ.-I"=100' VERT.-I"=10'

SITE ANALYSIS

- 1. LOT AREA (PARCEL 146): 80.67 AC.
 2. DISTURBED AREA: 21,434 SF OR 0.49 AC.
 3. ZONING: RR-DEO
 4. EXISTING LAND USE: PRIVATE SCHOOL/ATHLETIC FIELDS
 5. PROPOSED/ACCESSORY LAND USE: ASTRONOMY OBSERVATORY
 (PERMITTED BY SPECIAL EXCEPTION
 CASE #95-46E AND 99-51 E&V)
- 6. PROPOSED IMPERVIOUS AREA:
 PROPOSED BUILDING AREA: 395
 PROPOSED PAVEMENT AREA: 1,347
- TOTAL IMPERVIOUS AREA: 1,
 7. GROSS FLOOR AREA OF BUILDING: 395 SF
 8. GREEN SPACE ON SITE = 76.64 ACRES OR 95%
- 9. BUILDING COVERAGE OF SITE: 0.010 ACRES, 0.012% OF GROSS AREA
 10. PARKING REQUIRED:
 11. PARKING PROVIDED:
 2 HC SPACES
 12. NUMBER OF EMPLOYEES FOR SITE FACILITY:
 0 EMPLOYEES

GLENELG COUNTRY SCHOOL ASTRONOMY OBSERVATORY SITE DEVELOPMENT PLAN



SITE LOCATION MAP SCALE: 1"-80"

BENCHMARKS

B.M.#1 — HOWARD COUNTY BENCHMARK 221A — NORTH SIDE OF FOLLY QUARTER ROAD 231' EAST OF JUMPERS HILL. ELEV. 496.43

B.M.#2 - HOWARD COUNTY BENCHMARK 22HA - SOUTH SIDE OF FOLLY QUARTER ROAD OPPOSITE MARYVALE COURT. ELEV. 538.39

FOLLY QUARTER ROAD

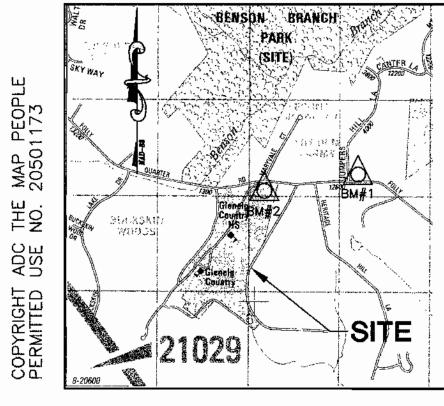
	GE	ENERAL SWM REQUIRE	MENTS
STEP	REQUIREMENT	VOLUME REQUIRED (ac-ft)	NOTES
1	WATER QUALITY VOLUME (WQv)	0.0057 AC-FT.	PROVIDED BY DISCONNECTION OF ROOFTOP & NON ROOFTOP RUNOFF CREDIT
2	RECHARGE VOLUME (Rev)	0.0012 AC-FT.	PROVIDED BY DISCONNECTION OF ROOFTOP & NON ROOFTOP RUNOFF CREDIT
3	CHANNEL PROTECTION VOLUME (CpV)	N/A	NOT REQUIRED, DISTURBED AREA LESS THAN 15,000 S.F.
4	OVERBANK FLOOD PROTECTION VOLUME (Qp)	N/A	NOT REQUIRED PER HOWARD COUNTY REQ., SITE IS NOT W/IN DESIGNATED FLOOD ZONE
5	EXTREME FLOOD VOLUME (Qf)	N/A	NOT REQUIRED PER HOWARD COUNTY REQ., SITE IS NOT W/IN DESIGNATED FLOOD ZONE

SHEET INDEX

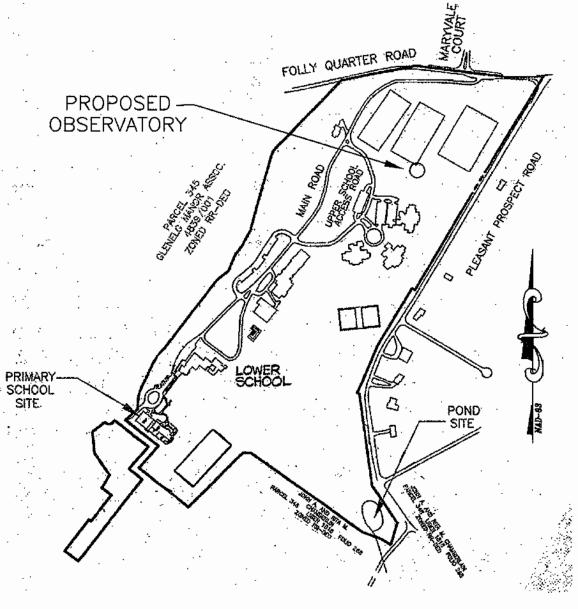
(EXISTING PRIVATE DRIVE)

TITLE SHEET	SDP-1
SITE PLAN	SDP-2
SITE DETAILS	SDP-3
GRADING & SEDIMENT CONTROL PLAN	SDP-4
GRADING & SEDIMENT CONTROL DETAILS	SDP-5

UWNER	JOEL R. CHERINGTON,	FAX N□.	
A. NAME:	AGENT FOR THE GCS	B.TELEPHONE:	410-531-222
C. COMPANY	GLENELG COUNTRY S	CHOOL	
D. ADDRESS	12793 FOLLY QUARTE	R ROAD	
E. CITY	GLENELG	STATE: MD	_ZIP: 21737
DEVELOPER	JOEL R. CHERINGTON,	FAX ND.	410-234-179
A. NAME:	AGENT FOR THE GCS	B.TELEPHONE:	443-604-060
C. COMPANY	GOULD PROPERTY CO	DMPANY	
D. ADDRESS	1332 SOUTH CHARLE	S STREET	
E. CITY	BALTIMORE	STATE: MD	ZIP ₁ 21230

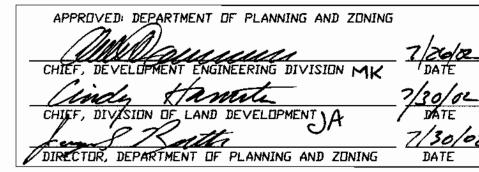


VICINITY MAP SCALE: 1"=2000' MAP BOOK (ADC) PAGE 10 GRID B-12



SITE LOCATION MAP SCALE: 1"=500"

	ADDRESS C	HA	RT / OW	NER INFO	RMA	TION	
GLENELG COUNTRY SCHOOL							
12793 FOLLY QUARTER ROAD							
GLENELG,	MD 21737		PHONE:	410-531-	2229		
•	PERMIT	r in	FORMAT	ION CHAR	T		
	Subdivision Name: Area: Parcel #: GLENELG COUNTRY SCHOOL 80.67 AC. 146						
Plat #: 1296/245	Zoning: RR-DEO	To	· · · · · · · · · · · · · · · · · · ·			Census Tract: 6051.01	
Water Code: PRIVATE WELL Sewer Code: PRIVATE SEPTIC							



SDP-1



MORRIS & RITCHIE ASSOCIATES, INC.

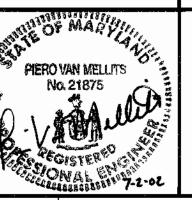
ENGINEERS, PLANNERS, SURVEYORS AND LANDSCAPE ARCHITECTS

9090 JUNCTION DRIVE, SUITE 9

ANNAPOLIS JUNCTION, MARYLAND 20701

(410) 792-9792 or (301) 776-1690

FAX (410) 792-7395



DATE

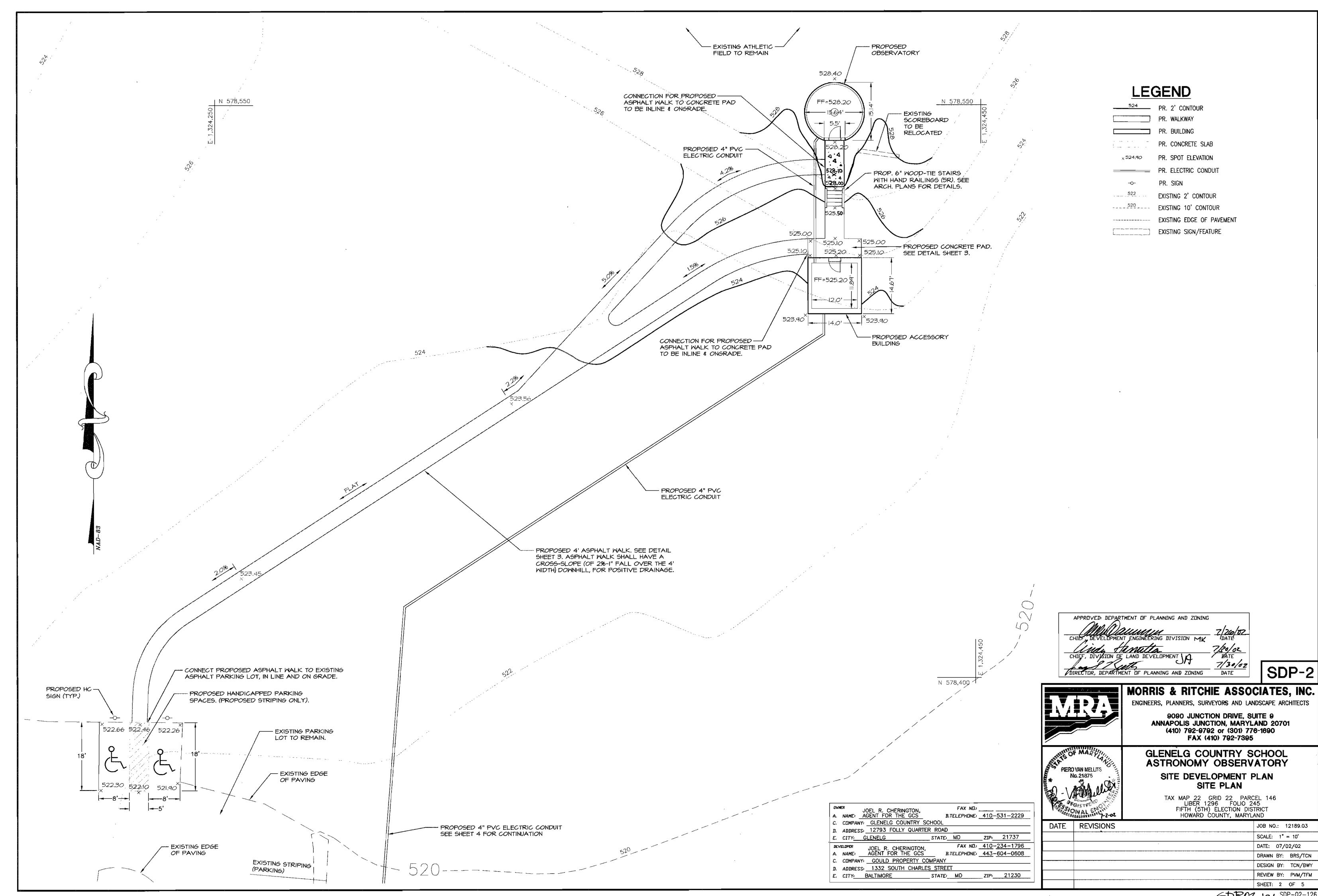
GLENELG COUNTRY SCHOOL ASTRONOMY OBSERVATORY SITE DEVELOPMENT PLAN TITLE SHEET

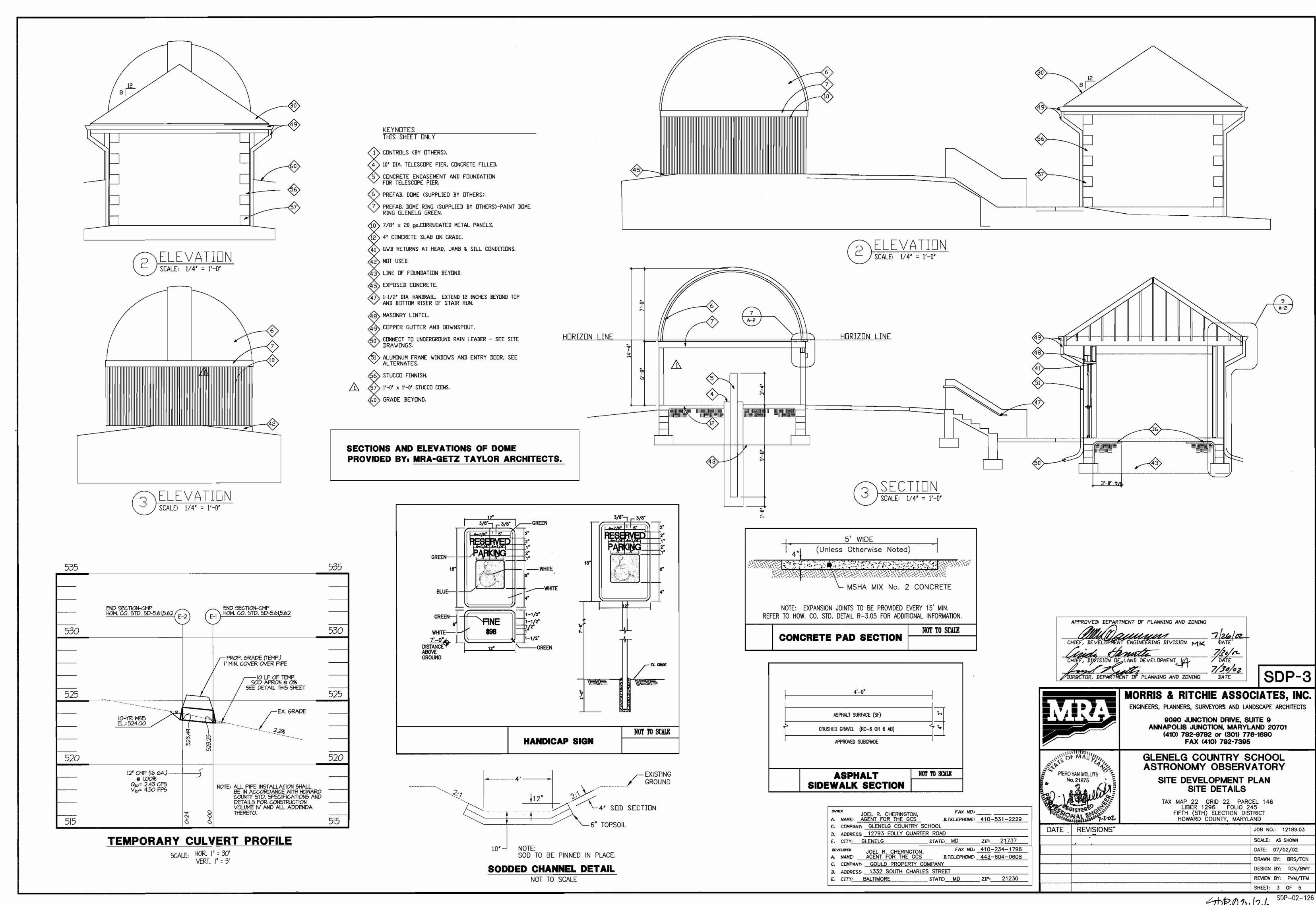
TAX MAP 22 GRID 22 PARCEL 146 LIBER 1296 FOLIO 245 FIFTH (5TH) ELECTION DISTRICT HOWARD COUNTY, MARYLAND

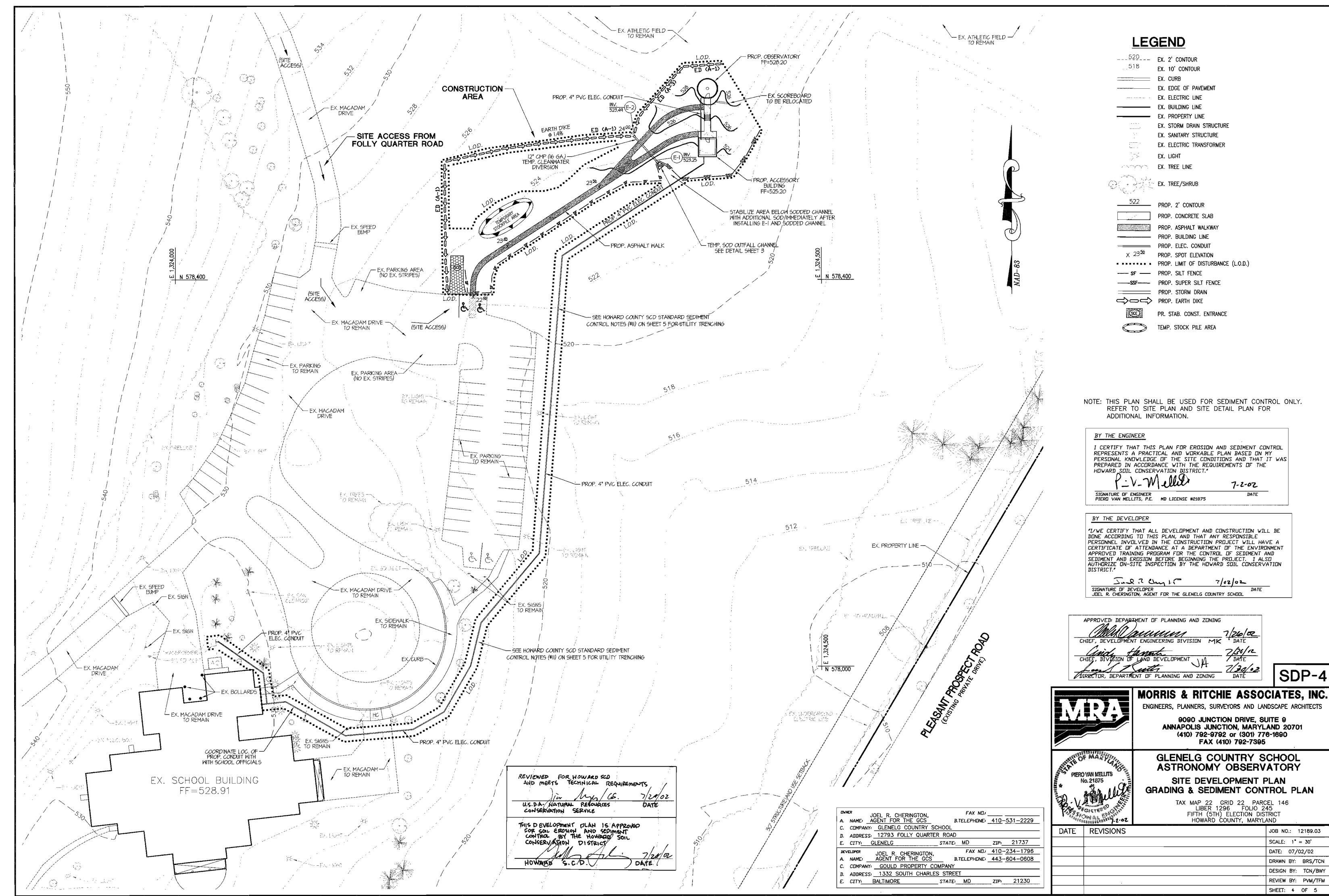
REVISIONS	JOB NO.: 12189.03
	SCALE: AS SHOWN
	DATE: 07/02/02
	DRAWN BY: BRS/TCN
	DESIGN BY: TCN/BWY
	REVIEW BY: PVM/TFM
	SHEET: 1 OF 5

GDP:02.126

SDP-02-126







STANDARDS AND SPECIFICATION FOR TOPSOS

PLACEMENT OF TOPSOIL OVER A PREPARED SUBSOIL PRIOR TO ESTABLISHMENT OF PERMANENT VEGETATION

TO PROVIDE A SUITABLE SOIL MEDIUM FOR VEGETATIVE GROWTH. SOILS OF CONCERN HAVE LOW MOISTURE CONTENT, LOW NUTRIENT LEVELS, LOW pH, MATERIAL TOXIC TO PLANTS, AND/OR UNACCEPTABLE SOIL

COMDITIONS WHERE PRACTICE APPLIES

- I. THIS PRACTICE IS LIMITED TO AREAS HAVING 24 OR FLATTER SLOPES WHERE
- A. THE TEXTURE OF THE EXPOSED SUBSCIL/PARENT MATERIAL IS NOT ADEQUATE TO PRODUCE VEGETATIVE GROWTH.
- 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.
- THE DRIGINAL SOIL TO BE VEGETATED CONTAINS MATERIAL TOXIC TO PLANT GROWTH.
- D. THE SOIL IS SO ACIDIC THAT TREATMENT WITH LIMESTONE IS
- II. FOR THE PURPOSE OF THESE STANDARDS AND SPECIFICATIONS, AREAS HAVING SLOPES STEEPER THAN 211 REQUIRE SPECIAL CONSIDERATION AND DESIGN FOR ADEQUATE STABILIZATION. AREA HAVING SLOPES STEEPER THAN 21 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 STANDARDS AS SET FORTH IN THESE SPECIFICATIONS. TYPICALLY, THE DEPTH OF TOPSOIL TO BE SALVAGED FOR A GIVEN SOIL TYPE CAN BE FOUND IN REPRESENTATIVES 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
- TOPSOIL SHALL BE A LOAM, SANDY LOAM, CLAY LOAM, SILT LOAM, SANDY CLAY LOAM, LOAMY SAND. OTHER SOILS MAY USED IF RECOMMENDED BY AN AGRONOMIST OR SOIL SCIENTIST ND APPROVED BY THE APPROPRIATE APPROVAL AUTHORITY. REGARDLESS TOPSOIL SHALL NOT BE A MIXTURE OF CONTRASTING TEXTURED SUBSCILS AND SHALL CONTAIN LESS THAN SZ BY VOLUME OF CINDERS, STONES, SLAG, COARSE FRAGMENTS, GRAVELS, STICKS, ROOTS, TRASH, OR OTHER MATERIALS LARGER THAN 1 1/2' IN DIAMETER.
- TOPSOIL MUST BE FREE OF PLANTS OR PLANT PARTS SUCH AS BERMUDA GRASS, QUICKGRASS, JOHNSONGRASS, NUTSEDGE, POISON IVY, THISTLE, OR OTHERS AS SPECIFIED.
- III. WHERE THE SUBSUIL 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 SF) 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. II. FOR SITE HAVING DISTURBED AREAS UNDER 5 ACRE

PLACE TOPSOIL (IF REQUIRED) AND APPLY SOIL AMENDMENTS AS SPECIFIED IN 20.0 VEGETATIVE STABILIZATION-SECTION I-VEGETATIVE STABILIZATION METHODS AND MATERIALS.

III. TOPSOIL APPLICATION

- WHEN TOPSOILING, MAINTAIN NEEDED EROSION AND SEDIMENT CONTROL PRACTICES SUCH AS DIVERSIONS, GRADE STABILIZATION STRUCTURES, EARTH DIKES, SLOPE SILT
- II. GRADES ON THE AREAS TO BE TOPSDILED, WHICH HAVE BEEN PREVIOUSLY ESTABLISHED, SHALL BE MAINTAINED, ALBEIT 4'-8' HIGHER IN ELEVATION.
- III. TOPSDIL SHALL BE UNIFORMLY DISTURBED IN A 4"-B" LAYER AND LIGHTLY COMPACTED TO A MINIMUM THICKNESS OF 4". SPREADING SHALL BE PERFURMED IN SUCH A MANNER THAT SODDING OR SEEDING CAN PROCEED WITH A MINIMUM OF ADDITIONAL SOIL PREPARATION AND TILLAGE. ANY IRREGULARITIES IN THE SURFACE RESULTING FROM TOPSDILING OR OTHER OPERATIONS SHALL BE CORRECTED IN ORDER TO PREVENT THE FORMATION OF DEPRESSIONS OR WATER
- IV. TOPSOIL SHALL NOT 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
- VI. ALTERNATIVE FOR PERMANENT SEEDING-INSTEAD OF APPLYING THE FULL AMOUNTS OF LIME AND COMMERCIAL FERTILIZER, COMPOSTED
 - COMPOSTED SLUDGE MATERIAL FOR USE A SOIL CONDITIONER FOR SITES HAVING DISTURBED AREAS OVER 5 ACRE SHALL BE TESTED TO PRESCRIBE AMENDMENTS AND FOR SITES HAVING DISTURBED AREAS UNDER 5 ACRES SHALL CONFORM TO THE
 - A. COMPOSTED SLUDGE SHALL BE SUPPLIED BY, DR ORIGINATE FROM, A PERSON OR PERSONS THAT ARE PERMITTED (AT THE TIME OF ACQUISITION OF THE COMPOST) BY THE MARYLAND DEPARTMENT OF THE
 - B. COMPOSTED SLUDGE SHALL CONTAIN AT LEAST 1 PERCENT NITROGEN, 1.5 PERCENT PHOSPHOROUS, 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
- II. COMPOSTED SLUDGE SHALL BE AMENDED WITH A POTASSIUM FERTILIZER APPLIED AT THE RATE OF 4LB/1,000 SF, AND

REFERENCES: GUIDELINE SPECIFICATIONS, SOIL PREPARATION AND SCIDDING. MD-VA. PUB. #1, COOPERATIVE EXTENSION SERVICE, UNIVERSITY OF MARYLAND AND VIRGINIA POLYTECHNIC INSTITUTE.

1/3 THE NORMAL LIME APPLICATION RATE.

STANDARDS AND SPECIFICATIONS FOR LAND GRADING

RESHAPING OF THE EXISTING LAND SURFACE IN ACCORDANCE WITH A PLAN AS DETERMINED BY ENGINEERING SURVEY AND LAYOUT.

THE PURPOSE OF A LAND GRADING SPECIFICATION IS TO PROVIDE FOR EROSION CONTROL AND VEGETATIVE ESTABLISHMENT ON THOSE AREAS WHERE THE EXISTING LAND SURFACE IS TO BE RESHAPED BY GRADING ACCURDING TO PLAN.

THE GRADING PLAN SHOULD BE BASED UPON THE INCORPORATION OF BUILDING DESIGNS AND STREET LAYDUTS THAT FIT AND UTILIZE EXISTING TOPOGRAPHY AND DESIRABLE NATURAL SURROUNDINGS TO AVOID KTREME GRADE MODIFICATIONS. INFORMATION SUBMITTED MUST PROVIDE SUFFICIENT TOPOGRAPHIC SURVEYS AND SOIL INVESTIGATIONS TO DETERMINE LIMITATIONS THAT MUST BE IMPOSED ON THE GRADING OPERATION RELATED TO SLOPE STABILITY, EFFECT ON ADJACENT PROPERTIES AND DRAINAGE PATTERNS, MEASURES FOR DRAINAGE AND

MANY COUNTIES HAVE REGULATIONS AND DESIGN PROCEDURES ALREADY ESTABLISHED FOR LAND GRADING AND CUT AND FILL SLEPES. WHERE THESE REQUIREMENTS EXIST, THEY SHALL BE FOLLOWED. THE PLAN MUST SHOW EXISTING AND PROPOSED CONTOURS OF THE AREA(S) TO BE GRADED. THE PLAN SHALL ALSO INCLUDE PRACTICES FOR GROSION CONTROL, SLOPE STABILIZATION, SAFE DISPOSAL OF RUNOFF WATER AND DRAINAGE, SUCH AS WATERWAYS, LINED DITCHES REVERSE SLOPE RENCHES (INCLUDE GRADE AND CROSS SECTION), GRADE STABILIZATION\STRUCTURES. RETAINING WALLS, AND SURFACE AND SUBSURFACE DRAINS. THE PLAN SHALL ALSO INCLUDE PHASING OF THESE PRACTICES. THE FOLLOWING

- PROVISIONS SHALL BE MADE TO SAFELY CONDUCT SURFACE RUNDIFF TO STORM BRAINS, PROTECTED DUTLETS OR TO STABLE WATER COURSES TO INSURE THAT SURFACE RUNDIFF WILL NOT DAMAGE SLOPES OR OTHER GRADED AREAS.
- II. CUT AND FILL SLOPES THAT ARE TO BE STABILIZED WITH GRASSES SHALL NOT BE STEEPER THAN 21. (WHERE THE SLOPE IS TO BE MOVED THE SLOPE SHOULD BE NO STEEPER THAN 34, 44 IS PREFERRED BECAUSE OF SAFETY FACTORS RELATED TO MOWING STEEP SLOPES.) SLOPES EXCEEDING 24 SHALL REQUIRE SPECIAL DESIGN AND STABILIZATION CONSIDERATIONS THAT SHALL BE ADEQUATELY SHOWN ON THE
- III. REVERSE BENCHES SHALL BE PROVIDED WHENEVER THE VERTICAL INTERVAL (HEIGHT) OF ANY 24 SLOPE EXCEEDS 20 FEET, FOR 34 SLOPE IT SHALL BE INCREASED TO 30 FEET AND FOR 44 TO 40 FEET. BENCHES SHALL BE LOCATED TO DIVIDE THE SLOPE FACE AS EQUALLY AS POSSIBLE AND SHALL CONVEY THE WATER TO A STABLE DUTLET. SOILS, SEEPS, ROCK OUTEROPS, ETC., SHALL ALSO BE TAKEN INTO CONSIDERATION WHEN DESIGNING BENCHES.
 - BENCHES SHALL BE A MINIMUM OF SIX FEET WIDE TO PROVIDE FOR EASE OF MAINTENANCE.
- B. BENCHES SHALL BE DESIGNED WITH A REVERSE SLOPE OF 64 OR FLATTER TO THE TOE OF THE UPPER SLOPE AND WITH A MINIMUM OF ONE FOOT IN DEPTH. BENCH GRADIENT TO THE OUTLET SHALL BE BETVEEN 2 PERCENT AND 3 PERCENT, UNLESS ACCOMPANIED BY APPROPRIATE
- THE FLOW LENGTH WITHIN A BENCH SHALL NOT EXCEED 800' UNLESS ACCOMPANIED BY APPROPRIATE DESIGN AND COMPUTATIONS. FOR FLOW CHANNEL STABILIZATION SEE TEMPORARY SWALE.
- SURFACE WATER SHALL BE DIVERTED FROM THE FACE OF ALL CUT AND/OR FILL SLOPES BY THE USE OF EARTH DIKES, DITCHES AND SWALES OR CONVEYED DOWNSLOPE BY THE USE OF A DESIGNED STRUCTURE, EXCEPT WHERE
- AND THE FACE OF ALL GRADED SLOPES SHALL BE PROTECTED FORM SURFACE RUNDEF UNTIL THEY ARE
- B. THE FACE OF SLOPE SHALL NOT BE SUBJECT TO ANY CONCENTRATED FLOWS OF SURFACE WATER SUCH AS FROM
- THE FACE OF THE SLOPE WILL BE PROTECTED BY SPECIAL EROSION CONTROL MATERIALS, TO INCLUDE, BUT NOT LIMITED TO APPROVED VEGETATIVE STABILIZATION PRACTICES (SEE SECTION G), RIP-RAP OR OTHER APPROVED STABILIZATION METHODS.
- V. CUT SLOPES OCCURRING IN RIPABLE ROCK SHALL BE SERRATED AS SHOWN ON THE FOLLOWING DIAGRAM. THESE SERRATIONS SHALL BE MADE WITH CONVENTIONAL EQUIPMENT AS THE EXCAVATION IS MADE. EACH STEP OR SERRATION SHALL BE CONSTRUCTED ON THE CONTOUR AND WILL HAVE STEPS CUT AT NOMINAL TWO-FOOT INTERVALS WITH NOMINAL THREE-FOOT HORIZONTAL SHELVES. THESE STEPS WILL VARY DEPENDING ON THE SLOPE RATIO OR THE CUT SLOPE, THE NOMINAL SLOPE LINE IS 11. THESE STEPS WILL WEATHER AND ACT TO HOLD MOISTURE, LIME, FERTILIZER AND SEED THUS PRODUCING A MUCH QUICKER AND LONGER LIVED VEGETATIVE COVER AND BETTER SLOPE STABILIZATION. OVERLAND FLOW SHALL BE DIVERTED FROM THE TOP OF ALL SERRATED CUT SLOPES AND CARRIED TO A SUITABLE DUTLET.
- SUBSURFACE DRAINAGE SHALL BE PROVIDED WHERE NECESSARY TO INTERCEPT SEEPAGE THAT WOULD OTHERWISE ADVERSELY AFFECT SLOPE STABILITY OR CREATE EXCESSIVELY WET SITE
- VII. SLOPES SHALL NOT BE CREATED SO CLOSE TO PROPERTY LINES AS TO ENDANGER ADJOINING PROPERTIES WITHOUT ADEQUATELY PROTECTING SUCH PROPERTIES AGAINST SEDIMENTATION, EROSION, SLIPPAGE, SETTLEMENT, SUBSIDENCE OR OTHER
- VIII. FILL MATERIAL SHALL BE FREE OF BRUSH, RUBBISH, ROCKS, LOGS, STUMPS, BUILDING DEBRIS, AND OTHER OBJECTIONABLE MATERIAL. IT SHOULD BE FREE OF STUNES OVER TWO (2) INCHES IN DIAMETER WHERE COMPACTED BY HAND OR MECHANICAL TAMPERS OR OVER FIGHT (8) INCHES IN DIAMETER WHERE COMPACTED BY ROLLERS OR OTHER EQUIPMENT, FROZEN MATERIAL SHALL NOT BE PLACED IN THE FILL NOR SHALL THE FILL MATERIAL BE PLACED ON A FROZEN FOUNDATION
- STOCKPILES, BORROW AREAS AND SPOIL SHALL BE SHOWN ON THE PLANS AND SHALL BE SUBJECT TO THE PROVISIONS OF THIS STANDARD AND SPECIFICATIONS.
- ALL DISTURBED AREAS SHALL BE STABILIZED STRUCTURALLY OR VEGETATIVELY IN COMPLIANCE WITH 20.0 STANDARDS AND SPECIFICATIONS FOR VEGETATIVE STABILIZATION.

1 DAY

2 DAYS

2 DAYS

2 DAYS

60 DAYS

2 DAYS

2 DAYS

2 DAYS

VEGETATIVE STABILIZATION

PERMANENT AND TEMPORARY SEEDING, SODDING AND MULCHING

PERMANENT OR TEMPORARY VEGETATION SHALL BE ESTABLISHED WITHIN SEVEN (7) DAYS ON THE SURFACE OF ALL SEDIMENT CONTROL PRACTICES SUCH AS DIVERSIONS, GRADE STABILIZATION STRUCTURES, BERMS, WATERWAYS, SEDIMENT CONTROL BASINS, AND ALL SLOPES GREATER THAN 3 HORIZONTAL TO 1 VERTICAL (3:1) AND WITHIN 14 DAYS FOR ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE. MULCHING MAY ONLY BE USED ON DISTURBED AREAS AS TEMPURARY COVER WHERE VEGETATION IS NO FEASIBLE OR WHERE SEEDING CAN NOT BE COMPLETED BECAUSE OF

I. SEEDED PREPARATION AND SEEDING APPLICATION

LOOSEN THE TOP LAYER OF THE SOIL TO A DEPTH OF 3 TO 5 INCHES BY MEANS OF SUITABLE AGRICULTURAL OR CONSTRUCTION EQUIPMENT SUCH AS DISC HARROWS, CHISEL PLOWS OR RIPPERS MOUNTED ON CONSTRUCTION EQUIPMENT. INCORPORATE THE LIME AND FERTILIZER INTO THE TOP 3 TO 5 INCHES OF THE SOIL BY DISCING OR BY OTHER SUITABLE MEANS. ROUGH AREAS SHOULD NOT BE ROLLED OR DRAGGED SMOOTH, BUT LEFT IN A ROUGHENED CONDITION. STEEP SLOPES GREATER THAN 31 SHOULD BE TRACKED BY A DOZER, LEAVING THE SOIL IN AN IRREGULAR CONDITION WITH RIDGES RUNNING PARALLEL SHOULD BE LODSE AND FRIABLE. PERMANENT COVER MAY REQUIRE AN APPLICATION DE TOPSOIL. 1 SD, IT MUST MEET THE REQUIREMENTS SET FORTH IN SECTION 210 TANDARDS AND SPECIFICATIONS FOR TOPSOIL FROM THE 1994 STANDARDS AND SPECIFICATIONS.

AL SOIL AMENDMENTS

FOXTAIL MULLET

ANNUAL RYEGRASS

TALL FESCUE (75%)

HARD FESCUE (40%) REDTOP (10%)

VI. TURFORASS ESTABLISHMENT

PERSPECTIVE VIEW

JOINING TWO ADJACENT SILT

FENCE SECTIONS

Tensile Strength

ensile Modulus

folded and stapled to prevent sediment bypas

SECTION A

CANADA BLUEGRASS (10%)

KENTUCKY BLUEGRASS (50%)

TALL FESCUE (85%)
CHEWINGS FESCUE (10%)
KENTUCKY BLUEGRASS (5%)

RECOMMENDATIONS FOR MARYLAND'.

KENTUCKY BLUEGRASS (10%)

SOIL TESTS SHALL BE MADE ON SITES OVER FIVE ACRES TO DETERMINE THE EXACT REQUIREMENTS FOR BOTH LIME AND FERTILIZER. FOR SITES UNDER 5 ACRES, IN LIEU OF A SOIL

FERTILIZER NITROGEN 2 LBS/1000 SF (90 LBS/AC) 4 LBS/1000 SF (175 LBS/AC) 4 LBS/1000 SF (174 LBS/AC)

IV. SEDIMENT CONTROL PRACTICE SEEDING

GROUND LIMESTONE 2 TONS/AC

SELECT A SEEDING MIXTURE FROM TABLE 25 OR 26 IN SECTION "G" OF THE 1994 STANDARDS AND SPECIFICATIONS. DOCUMENT SEEDING ON THE EROSION AND SEDIMENT CONTROL PLAN USING APPROPRIATE NOTE: IF SEDIMENT CONTROL PRACTICES ARE IN FOR LONGER THAN 12 MONTHS, PERMANENT SEEDING IS REQUIRED.

V. TEMPORARY/PERMANENT SEEDING MIXTURES AND RATES

SEED MIXTURE (HARDINESS ZONE O.

SEED MIXTURE(HARDINESS ZONE Sa)

FROM MDE STANDARD 20, FIGURE &

APPLICATION

SELECT A SEEDING MIXTURE FROM APPROPRIATE TABLE 25 OR 26 IN SECTION 'G' OF THE 1994 STANDARDS AND SPECIFICATIONS.
DOCUMENT SEEDING ON THE EROSION AND SEDIMENT CONTROL PLAN USING APPROPRIATE CHART BELOW.

RATE (LB/AC) DATE

150 LBS/AC. | 6/1-10/31

50 LBS/AC. | 8/1-8/15

APPLICATION

150 LBS/AC. 8/1-10/1

RATE (LB/AC)

THIS INCLUDES LAWNS, PARKS, PLAYGROUNDS, AND COMMERCIAL

DISCING OR BY OTHER APPROVED METHODS TO A DEPTH OF 3 TO 5

INCHES. LEVELED AND RAKED TO PREPARE A PROPER SEEDBED.

STUNES AND DEBRIS OVER 1 1/2 INCHES IN DIAMETER SHALL BE
REMOVED. THE RESULTING SEEDBED SHALL BE IN SUCH CONDITION
THAT FUTURE MOVING OF CHOOSE A TURFGRASS MIXTURE FROM PATE
G-20 OF THE 1994 STANDARDS AND SPECIFICATIONS OR SELECT
FROM THE LIST IN THE MOST CURRENT UNIVERSITY OF MARYLAND

SITES WHICH WILL RECEIVE A MEDIUM TO HIGH LEVEL OF MAINTENANCE. AREA TO RECEIVE SEED SHALL BE TILLED BY

PUBLICATION, AGRONOMY MEMO #77, 'TURFGRASS CULTIVAR

DETAIL 22 - SILT FENCE

ONDED GEDTEXTILE CLASS F ---

Construction Specifications

Fence posts shall be a minimum of 36" long driven 16" minimum into the ground. Yood posts shall be 11/2" x 11/2" square (minimum) cut, or 13/4" diameter standard T or U section weighting not less than 1.00 pond per linear foot. Iminimum) round and shall be of sound quality hardwood. Steel posts will be

50 lbs/in (nin.) Test MSNT 509
20 lbs/in (nin.) Test MSNT 509
0.3 gal ft*/ ninute (nax.) Test MSNT 322

PAGE HARYLAND DEPARTMENT OF ENVIRONMENT
E - 15 - 3 VATER MANAGEMENT ADMINISTRATION

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

3. Where ends of geotextile fabric come together, they shall be overlapped,

4. Silt Fence shall be inspected after each rainfall event and maintained when bulges occur or when sediment accumulation reached 50% of the fabric height.

SEEDING SEEDING

1/4"-1/2"

DATE

150 LBS/AC. 8/1-10/1 1/4'-1/2' 2 LB/

8/1-10/1

STANDARD SYMBOL

DEPTH

ALL SEEDING REQUIRE MULCHING. ALSO MULCH DURING NON-SEEDING DATES UNTIL SEEDING CAN BE DONE. MULCH SHALL BE UNRUTTED, UNCHUPPED, SMALL GRAIN STRAW APPLIED AT A RATE OF A 2 TONS/ACRE OR 90 LBS/1000 SF (2 BALES). IF A MULCH ANCHORING TOOL IS USED, APPLY 2.5 TONS/ACRE. MULCH MATERIAL SHALL BE RELATIVELY FREE OF ALL KINDS OF WEEDS AND SHALL BE COMPLETELY FREE OF PROHIBITED NOXIOUS WEEDS. SPREAD MULCH UNIFORMLY, MECHANICALLY OR B' HAND, TO A DEPTH OF 1-2 INCHES. MULCH ANCHORING SHALL . ACCOMPLISHED IMMEDIATELY AFTER MULCH PLACEMENT TO MINIMIZE LOSS BY WIND OR WATER. THIS MAY BE DONE BY MULCH NETTINGS, MULCH ANCHORING TOOL, WOOD CELLULOSE FIBER OR LIQUID MULCH

PPLY WOOD CELLULOSE FIBER AT A DRY WEIGHT OF 1,500 LBS/ACRE. IF MIXED WITH VATER, USE 50 LBS. OF WOOD

LIQUID BINDER SHOULD BE APPLIED HEAVIER AT THE EDGE, WHERE WIND CATCHES MULCH IN VALLEYS, AND ON CREST OF BANKS. THE REMAINDER OF THE AREA SHOULD APPEAR UNIFORM AFTER BINDER APPLICATION, APPLY RATES RECOMMENDED BY THE MANUFACTURE! TO ANCHOR AND MULCH. STABLE LIGHT WEIGHT, PLASTIC NETTING OVER THE MULCH ACCORDING TO MANUFACTURER'S RECOMMENDATIONS

CLASS OF TURFGRASS SOD SHALL BE MARYLAND OR VIRGINIA STATE CERTIFIED, OR MARYLAND OR VIRGINIA STATE APPROVED SOD. SOD SHALL BE HARVESTED, DELIVERED AND INSTALLED WITHIN A PERIOD OF 36 HOURS. SOD IS TO BE LAID WITH THE LONG EDGES PARALLEL TO THE CONTOUR USING STAGGERED JOINTS WITH AL ENDS TIGHTLY ABUTTED AND NOT OVER LAPPING. SOD SHALL BE ROLLED AND THOROUGHLY WATERED AFTER INSTALLATION. DAILY WATERING TO MAINTAIN 4 INCH DEPTH OF MOISTURE FOR THE FIRST WEEK IS REQUIRED IN THE ABSENCE OF RAINFALL. SOD IS NOT TO E APPLIED ON FROZEN GROUND,

LIME NATE

FERTRIZER RATE

600 LB/AC 2 TDNS/AC

(15 LB/1000 SF) K100 LB/1000 SF)

PERTALIZER RATE

PgOs KgO

Slope Steepness

50: i to 10: i

10 1 to 5 1

3:1 to 3:1

U.S. DEPARTMENT OF AGRICULTURE

90 LB/ 175 LB/ 175 LB/ 2 TONS/AC

SILT FENCE

Silt Fence Besign Criteria

Stope Length

untinited

125 feet

100 feet

Note: In areas of less than 2% slope and sandy soils (USDA general classification

system, soil Class A) maximum slope length and silt fence length will be unlimited. In these areas a silt fence may be the only perimeter control

(Maximum)

Silt Fence Length

unlinited

1,000 feet

750 feet

500 feet

250 feet

125 feet

MARYLAND DEPARTMENT OF ENVIRONMENT VATER MANAGEMENT ADMINISTRATION

(10-20-20)

- IRRIGATE-APPLY MINIMUM 1' DF WATER EVERY 3 TO 4 DAYS DEPENDING ON SOIL TEXTURE, WHEN SOIL MOISTURE BECOMES DEFICIENT TO PREVENT LOSS OF STAND OF PROTECTIVE
- REPAIRS- IF STAND PROVIDES BETWEEN 40% TO 94% GROUND COVERAGE, OVERSEED AND FERTILIZER USING HALF OF THE RATES ORIGINALLY APPLIED. IF STAND PROVIDES LESS THAN 10% COVERAGE, REESTABLISH AND STAND FOLLOWING ORIGINAL RATES AND PROCEDURES.
- USE OF THIS INFORMATION DOES NOT PRECLUDE MEETING ALL OF THE REQUIREMENTS OF THE 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL VEGETATIVE PRACTICES.

BY THE DEVELOPER

IGNATURE OF DEVELOPER

DISTRICT.

"I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE

CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT

APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND

SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION

DONE ACCORDING TO THIS PLAN, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A

JOEL R. CHERINGTON, AGENT FOR THE GLENELG COUNTRY SCHOOL

Jose 12 Chung 60

DETAIL 1 - EARTH DIKE E D 2:1 SLOPE OR FLATTER EXCAVATE TO PROVIDE REQUIRED FLOW WIDTH DIKE A DIKE B P-DIKE MIDITH \(\frac{1}{\sqrt{1}} \cdot\(\frac{1}{\sqrt{1}} \cdot\(\frac{1}{\sqrt{1 c-FLOW WIDTH d-FLOW DEPTH STANDARD SYMBOL A-2 B-3 FLOW CHANNEL STABILIZATION GRADE 0.5% MIN. 10% MAX.

Seed and cover with Erosion Control Matting or line with sod. 4" - 7" stone or recycled concrete equivalent pressed into

1. All temporary earth dikes shall have uninterrupted positive grade to an outlet. Spot elevations may be necessary for grades less than 1%. 2. Runoff diverted from a disturbed area shall be conveyed to a sediment

Construction Specifications

- 3. Runoff diverted from an undisturbed area shall outlet directly into an undisturbed, stabilized area at a non-erosive velocity. 4. All trees, brush, stumps, obstructions, and other objectional material shall be removed and disposed of so as not to interfers with the proper
- 5. The dike shall be excavated or shaped to line, grade and cross section as required to meet the criteria specified herein and be free of bank projections or other knegularities which will impede normal flow.
- 8. Fill shall be compacted by earth moving equipment 7. All earth removed and not needed for construction shall be placed so that
- It will not interfere with the functioning of the dike. 8. Inspection and maintenance must be provided periodically and after

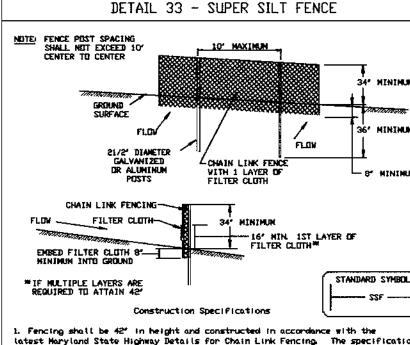
U.S. DEPARTMENT OF AGRICULTURE SUIL CONSERVATION SERVICE	PAGE A - 1 - 6	MARYLAND DEPARTMENT OF ENVIRONMENT VATER MANAGEMENT ADMINISTRATION

7/2/02

THE START OF ANY CONSTRUCTION (313-1855)

SEDIMENT CONTROL AND REVISIONS THERETO.

GRADED AREAS ON THE PROJECT SITE.



latest Maryland State Highway Details for Chain Link Fencing. The specification for a 6' fence shall be used, substituting 42' fabric and 6' length 2. Chain link fence shall be fastened securely to the fence posts with wire ties.

- The lower tension wire, brace and truss rods, drive anchors and post caps are not 3. Filter cloth shall be fastened securely to the chain link fence with ties spaced every 24" at the top and mid section.
- 4. Filter cloth shall be embedded a minimum of 8' into the ground 5. When two sections of filter cloth adjoin each other, they shall be overlapped
- 6. Haintenance shall be performed as needed and silt buildups removed when "bulges" develop in the silt fence, or when silt reaches 50% of fence height 7. Filter cloth shall be fastened securely to each fence post with wire ties or

staples at top and mid section and shall neet the following requirements for

REVIEWED FOR HOWARD S.C.D.

U.S.D.A.-NATURAL RESOURCES

CONSERVATION SERVICE

CONSERVATION DISTRICT.

AND MEETS TECHNICAL REQUIREMENTS.

THIS DEVELOPMENT PLAN IS APPROVED

FOR SOIL EROSION AND SEDIMENT

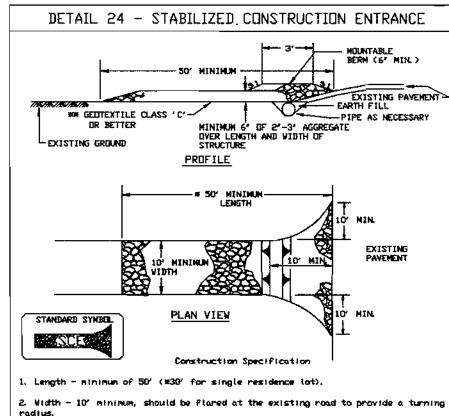
CONTROL BY THE HOWARD SOIL

(Mys/65

us, department of Agric Sool Conservation Ser		MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION
Tensile Moduli Flow Rate Filtering Eff	us 20 lbs/in (#in.) G.3 gal/ft*/nim	Test HSHT 509
Geotextile Class Fi Tensile Streng	sth 50 tbs/in (aln.)	Test MSNT 509

Design Criteria Silt Fence Lengt 0 - 10% 0 - 10-1 Unlimited Unlimited 10 ~ 20% 10:1 ~ 5:1 1,500 Feet 200 Feet 20 - 33% 5:1 - 3:1 1,000 Feet 100 Feet 500 Feet

DETAIL 33 - SUPER SILT FENCE



MARYLAND DEPARTMENT OF ENVERONMEN

U.S. DEPARTMENT OF AGRICULTURE

SEEL CONSERVATION SERVICE

radius.

3. Geotextile fabric (filter cloth) shall be placed over the existing ground price

to placing stone. METhe plan approval authority may not require single family

4. Stone - crushed aggregate (2" to 3") or rectained or recycled concrete equivalent shall be placed at least 6" deep over the length and width of the

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 nountable bern with 5:1 slopes 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

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 PAGE MARYLAND DEPARTMENT OF ENVIRONMENT SUIL CONSERVATION SERVICE F - 17 - 3 VATER MANAGEMENT ADMONISTRATION

7-2-02

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.

HOWARD SOIL CONSERVATION DISTRICTS

STANDARD SEDIMENT CONTROL NOTES

A MIN. OF 48 HOURS NOTICE MUST BE GIVEN TO THE HOWARD CO. DEPARTMENT

OF INSPECTIONS, LICENSES AND PERMITS, SEDIMENT CONTROL DIVISION PRIOR TO

2. ALL VEGETATION AND STRUCTURAL ARE TO BE INSTALLED ACCORDING TO THE

PROVISIONS OF THIS PLAN AND ARE TO BE IN CONFORMANCE WITH THE MOST

3. FOLLOWING INITIAL SOIL DISTURBANCE OR RE-DISTURBANCE, PERMANENT OR

ALL SLOPES GREATER THAN 3:1, B) 14 DAYS AS TO ALL OTHER DISTURBED OR

TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN: A) 7 CALENDAR DAYS FOR

ALL PERIMETER SEDIMENT CONTROL STRUCTURES, DIKES, PERIMETER SLOPES AND

CURRENT MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND

5. 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 SEEDING (SEC. 51). SOD (SEC. 54), TEMPORARY SEEDING (SEC. 50) AND MULCHING (SEC. 52). TEMPORARY STABILIZATION WITH MULCH ALONE CAN ONLY BE DONE WHEN RECOMMENDED SEEDING DATES DO NOT ALLOW FOR PROPER GERMINATION AND ESTABLISHMENT OF GRASSES.

6. ALL SEDIMENT CONTROL STRUCTURES ARE TO REMAIN IN PLACE AND ARE TO BE MAINTAINED IN OPERATIVE CONDITION UNTIL PERMISSION FOR THEIR REMOVAL HAS BFFN OBTAINED FROM HOWARD COUNTY SEDIMENT CONTROL INSPECTOR

80.67 AC.
0.49 AC.
0.04 AC.
0.45 AC.
70 CU. YDS.
70 CU. YDS.
ON-SITE

8. ANY SEDIMENT CONTROL PRACTICE WHICH IS DISTRIBUTED BY GRADING ACTIVITY FOR PLACEMENT OF UTILITIES MUST REPAIR ON THE SAME DAY OF DISTURBANCE. 9. ADDITIONAL SEDIMENT MUST BE PROVIDED, IF DEEMED NECESSARY BY THE

HOWARD COUNTY SEDIMENT CONTROL INSPECTOR. 10. ON ALL SITES WITH DISTURBED AREAS IN ACCESS 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

THE INSPECTION AGENCY IS MADE. 11. TRENCHES FOR THE UTILITIES IS LIMITED TO THREE PIPE LENGTHS OR THAT WHICH SHALL BE BACK-FILLED AND STABILIZED BY THE END OF EACH WORK DAY, WHICHEVER IS SHORTER.

INSPECTION APPROVALS MAY NOT BE AUTHORIZED UNTIL THIS INITIAL APPROVAL BY

OVN	ER J	OEL R. CH	ERINGTON.		FAX N	□,,	
A.	NAME: A	OEL R. CH GENT FOR	THE GCS	_	B.TELEPHON	<i>Ei</i> 410-	531-2229
С.	COMPANY:	GLENELG	COUNTRY	SCH00L			
B.	ADDRESS:	12793 FC	DLLY QUAR	TER ROA	D		
E.	CITY: C	GLENELG		STATE	rMD	ZIP:	21737
DEV	ELOPER	JOEL R. 0	CHERINGTO	N.	FAX N	<i>B.</i> ; <u>410</u>	234-1796
A.	NAME:	AGENT FO	R THE GC	<u>s'</u>	B.TELEPHON	IE 443-	604-0608
C.	COMPANY	GOULD F	PROPERTY	COMPANY	<u> </u>		
D.	ADDRESS	1332 SO	UTH CHAR	LES STR	ET_		
E.	CITY	BALTIMORE		STATE	: MD	ZIP	21230

MRA	M

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

APPROVED: DEPARTMENT OF PLANNING AND ZONING

DEVELOPMENT ENGINEERING DIVISION

DEPARTMENT OF PLANNING AND ZONING

Handh

CHIEF, DIVISION OF LAND DEVELOPMENT

HOWARD SOIL CONSERVATION DISTRICT."

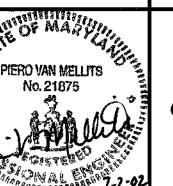
SIGNATURE OF ENGINEER PIERO VAN MELLITS, P.E. MD LICENSE #21875

_V_Miller

SDP-5 MORRIS & RITCHIE ASSOCIATES, INC

ENGINEERS, PLANNERS, SURVEYORS AND LANDSCAPE ARCHITECTS 9090 JUNCTION DRIVE, SUITE 9

ANNAPOLIS JUNCTION, MARYLAND 20701 (410) 792-9792 or (301) 776-1690 FAX (410) 792-7395



GLENELG COUNTRY SCHOOL ASTRONOMY OBSERVATORY SITE DEVELOPMENT PLAN **GRADING & SEDIMENT CONTROL DETAILS**

TAX MAP 22 GRID 22 PARCEL 146 LIBER 1296 FOLIO 245 FIFTH (5TH) ELECTION DISTRICT HOWARD COUNTY, MARYLAND

TE	REVISIONS	JOB NO	.: 1	2189	.03
		SCALE:	AS S	NWOH	1
		DATE:	07/0	2/02	<u>}</u>
		DRAWN	BY:	BRS	/TCN
		DESIGN	BY:	TCN	/BWY
		REVIEW	BY:	PVM	/TFM
		SHEET:	5	OF	5

SDP-02-126

WITH THE SEDIMENT CONTROL INSPECTOR'S APPROVAL, REMOVE ALL REMAINING 2 DAYS SEDIMENT CONTROLS AND STABILIZE THOSE REMAINING DISTURBED AREAS.

SEQUENCE OF CONSTRUCTION

OBTAIN ALL NECESSARY PERMITS. CONTACT THE HOWARD COUNTY OFFICE.

2. CLEAR AND GRUB FOR INSTALLATION OF SEDIMENT CONTROLS ONLY.

5. BEGIN CONSTRUCTION OF OBSERVATORY AND ACCESSORY BUILDING.

4. CLEAR AND GRUB CONSTRUCTION AREA PER SHEET SDP-4.

6. FINAL GRADE SITE AND PROVIDE PERMANENT STABILIZATION.

8. PERMANENTLY STABILIZE THOSE DISTURBED AREAS.

AND CLEANWATER DIVERSION PIPE.

OF INSPECTIONS AT LEAST 48 HOURS PRIOR TO BEGINNING ANY WORK.

INSTALL ALL SEDIMENT AND EROSION CONTROL DEVICES PER SHEET SDP-4.

7. WITH THE SEDIMENT CONTROL INSPECTOR'S APPROVAL, REMOVE EARTH DIKES

INSTALL CLEANWATER DIVERSION PIPE FROM E-2 TO E-1. SEE SHEET SDP-4.