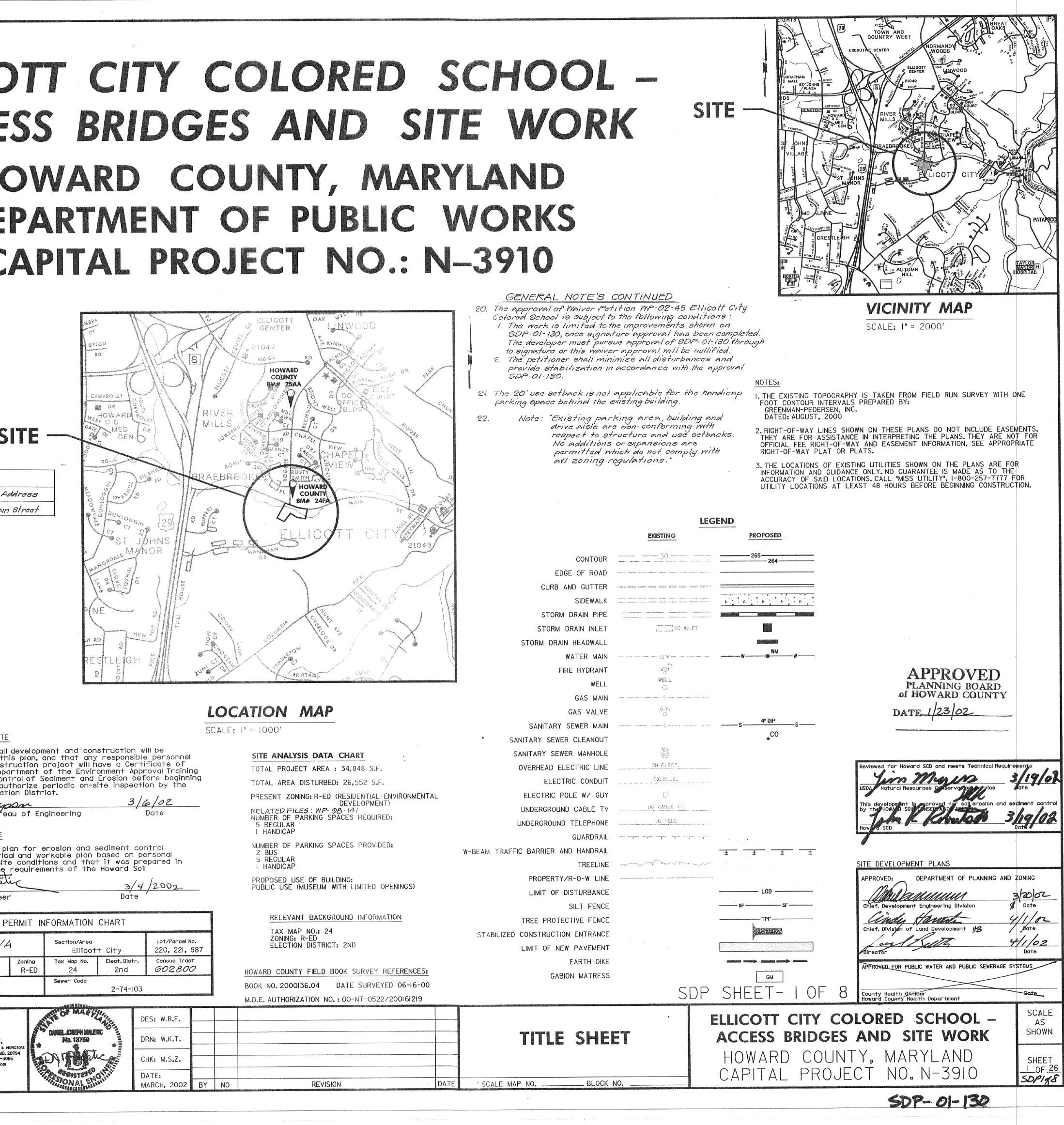
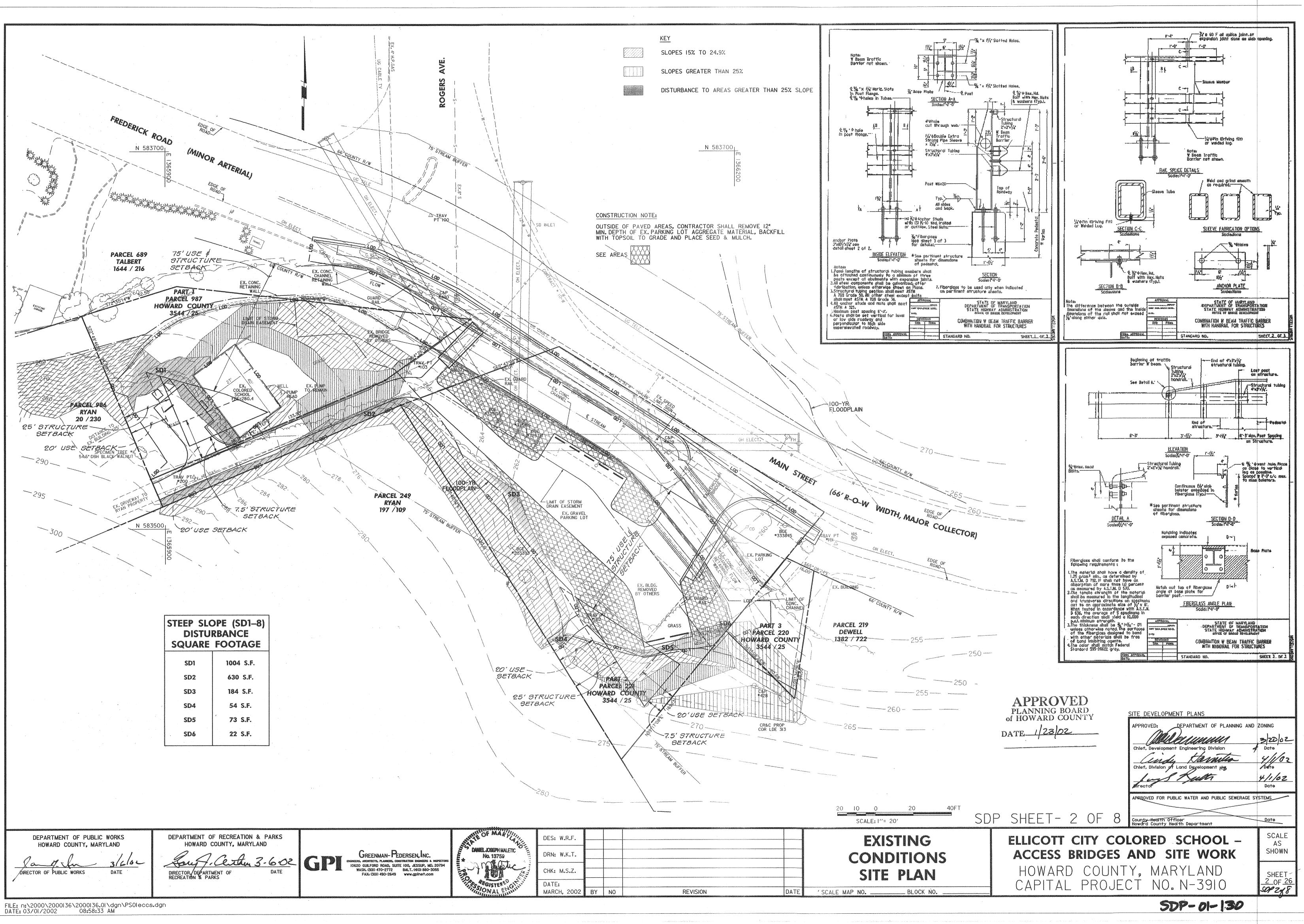
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9S1 – GENERAL NOTES10S2 – VEHICULAR BRIDGE PLAN AND ELEVATION11S3 – VEHICULAR BRIDGE EARTHWORK12S4 – VEHICULAR BRIDGE ABUTMENT 'A'13S5 – VEHICULAR BRIDGE ABUTMENT 'B'14S6 – VEHICULAR BRIDGE BEAM LAYOUT AND TRANSVERSE S15S7 – VEHICULAR BRIDGE 4'-0" PRESTRESSED CONCRETE SLAB16S8 – VEHICULAR BRIDGE 3'-0" PRESTRESSED CONCRETE SLAB17S9 – VEHICLE BRIDGE PRESTRESSED CONCRETE SLAB18S10 – VEHICULAR BRIDGE APPROACH SLABS	
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GENERAL NOTES I. COORDINATES SHOWN HEREON ARE BASED ON HOWARD COUNTY GEODETIC SYSTEM POINT NOS. 24FA,	
25AA HORIZ. NAD 83 DATUM. 2. INFORMATION CONCERNING UNDERGROUND UTILITIES WAS OBTAINED FROM THE BEST AVAILIBLE RECORDS. THE CONTRACTOR MUST DETERMINE THE EXACT LOCATIONS AND ELEVATIONS OF THE UTILITIES BY DIGGING TEST PITS AT ALL UTILITY CROSSINGS PRIOR TO CONSTRUCTION. IF CLEARANCES ARE LESS THAN SPECIFIED ON THIS PLAN OR LESS THAN 12 INCHES WHEN NOT SPECIFIED, CONTACT THE ENGINEER AND THE OWNER OF OTHER INVOLVED UTILITY.	S
3. CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITIES OR AGENCIES AT LEAST FIVE (5) WORKING DAYS BEFORE STARTING WORK SHOWN ON THESE PLANS: MISS UTILITY 1-800-257-7777	ADDRESS CHART
CONSTRUCTION INSPECTION DIVISION, HOWARD COUNTY (410) 313-1880 BALTIMORE GAS & ELECTRIC COMPANY - UNDERGROUND ELECTRIC DISTRIBUTION CUSTOMER SERVICE (410) 685-0123 VERIZON 1-800-870-0000 AMERICAN TELEPHONE & TELEGRAPH CABLE LOCATION DIVISION (410) 393-3553 BUREAU OF UTILITIES, HOWARD COUNTY (410) 313-2040	Lot / Parcel # Street A 220, 221, 987 8683 Mair
4. AVOID DAMAGE TO TREES ON THE SITE TO MAXIMUM EXTENT. OTHER TREES WITHIN LIMITS OF CONSTRUCTION SHALL NOT BE DESTROYED WITHOUT APPROVAL OF THE ENGINEER. TREES > 12" DBH WITHIN LOD SHALL BE PROTECTED USING TREE PROTECTIVE FENCING.	
5. ALL GRADING SHALL BE INSIDE THE L.O.D. SHOWN INCLUDING SIDE SLOPES AND STABILIZATION ONLY. FOLLOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED AS FOLLOWS:	
DITCHES, PERIMETER SLOPES, AND ALL SLOPES, AND ALL SLOPES GREATER THAN THREE HORIZONTAL TO ONE VERTICAL (3:1).	
 B. FOURTEEN (14) CALENDAR DAYS FOR ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE. 6. FOR DETAILS NOT SHOWN ON THESE DRAWINGS, AND FOR MATERIALS AND CONSTRUCTION METHODS, USE HOWARD CO. DESIGN MANUAL, VOL. IV STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION (LATEST EDITION). THE CONTRACTOR SHALL HAVE A COPY OF VOL. IV ON THE JOB. 	
7. THE ELLICOTT CITY COLORED SCHOOL SHALL BE MAINTAINED AFTER CONSTRUCTION BY THE HOWARD COUNTY DEPARTMENT OF RECREATION AND PARKS.	
 8. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF HOWARD COUNTY PLUS MSHA STANDARDS AND SPECIFICATIONS IF APPLICABLE. 9. TRAFFIC CONTROL DEVICES, MARKINGS AND SIGNINGS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD). ALL STREET AND REGULATORY SIGNS SHALL BE PLACED PRIOR TO THE PLACEMENT OF ANY ASPHALT. 	, , , , , , , , , , , , , , , , , , ,
IO. ALL PLAN DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED.	DEVELOPERS CERTIFICATE
 II. WATER IS PUBLIC, CONTRACT NO. 10-W. I2. SEWER IS PUBLIC, CONTRACT NO. 3I-S. I3. THE FLOODPLAIN STUDY FOR THIS PROJECT WAS PREPARED BY: A. HOWARD COUNTY WATERSHED MODEL UPDATE TIBER-HUDSON HEC-2 FOR STATE OF MARYLAND 	done according to th involved in the const Attendance at a Dep Program for the Con the project. Laiso au Howard Soil Conservat
WATER RESOURCES ADMINISTRATION, PREPARED BY SHELADIA ASSOCIATES, INC., 1987. B. TIBER-HUDSON GREEK WATERSHED MODEL UPDATE FOR HOWARD COUNTY, MARYLAND, HEC-RAS MODEL FOR ELLICOTT CITY COLORED SCHOOL, PREPARED BY PHOENIX ENGINEERING, FEBRUARY 1988. C. TIBER-HUDSON CREEK WATERSHED MODEL UPDATE FOR HOWARD COUNTY, MARYLAND, HEC-RAS MODEL FOR ELLICOTT CITY COLORED SCHOOL, PREPARED BY GREENMAN-PEDERSEN, INC. JULY, 2001.	Standature Chief, Bure ENGINEERS CERTIFICATE
 I4. THE WETLANDS DELINEATION STUDY FOR THIS PROJECT WAS PREPARED BY GREENMAN-PEDERSEN, INC., NOVEMBER 2000, NO WETLANDS WERE FOUND ON THIS SITE. I5. NO TRAFFIC STUDY IS REQUIRED FOR THIS PROJECT. 	"Icertify that this p represents a practic Knowledge of the sit accordance with the Conservation District
16. STORMWATER MANAGEMENT QUANTITY CONTROL HAS BEEN PROVIDED BY A REDUCTION IN IMPERVIOUS AREA AND RCN VALUE. THE REQUIREMENT FOR STORMWATER MANAGEMENT QUALITY CONTROL HAS BEEN SATISFIED BY A 20% REDUCTION IN IMPERVIOUS AREA IN REDEVELOPMENT AREAS. THE NEW DEVELOPMENT HANDICAP PARKING AREA BEHIND THE SCHOOL BUILDING IS LESS THAN 5,000 SQUARE FEET OF IMPERVIOUS AREA THUS MEETING THE STORMWATER MANAGEMENT REQUIREMENT.	Signature of Enginee
17. THE WORK FOR WAIVER (WP-98-141), HUDSON BRANCH STREAM BANK STABILIZATION REQUESTED THE ADDITION OF A MODULAR BLOCK RETAINING WALL AND STABILIZATION OF THE EXISTING HUDSON BRANCH STREAM BANK. THERE ARE NO CONDITIONS OF APPROVAL FOR WAIVER WP-98-141	Subdivision Name ////
18. REFORESTATION IS NOT REQUIRED FOR THIS PROJECT. HOWEVER, TH AFFORESTATION REQUIREMENT OF 4,356 S.F. WILL BE SATISFIED BY A FEE-IN-LIEU PAYMENT INTO THE HOWARD COUNTY FOREST CONSERVAT FUND. THIS FEE-IN-LIEU PAYMENT SATISFIES THE FOREST CONSERVATION REQUIREMENT IN ACCORDANCE WITH THE HOWARD COUNTY CODE (FOREST CONSERVATION PROGRAM).	FION Plat * or L/F Grid * 3544/25 12 Water Code 25-10-0005
19. HOWARD COUNTY DEPARTMENT OF RECREATION AND PARKS IS RESPONSIBLE FOR DISPOSITION OF TRASH. NO DUMPSTER IS REQUIRED.	
DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND	GREENMAN-PEDERSEN, INC. ENGNEERS, ARDITECTS, PLANERS, CONSTRUCTION DEGREERS & M 10620 GUILFORD ROAD, SUITE 100, JESSUP, MD. WASH. (301) 470-2772 BALT. (410) 880-30 FAX: (301) 490-2649 WWW.gpiriet.com
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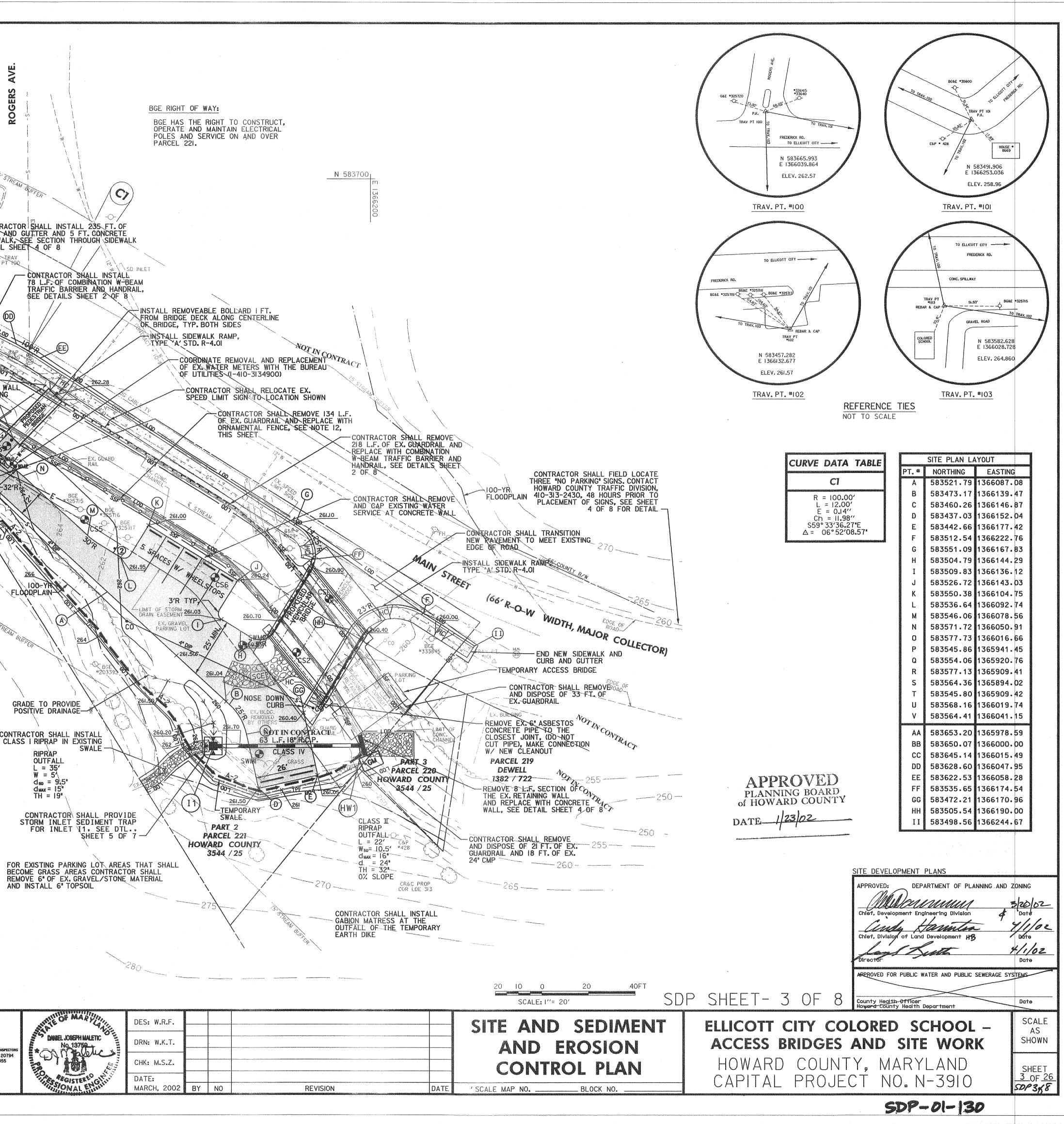


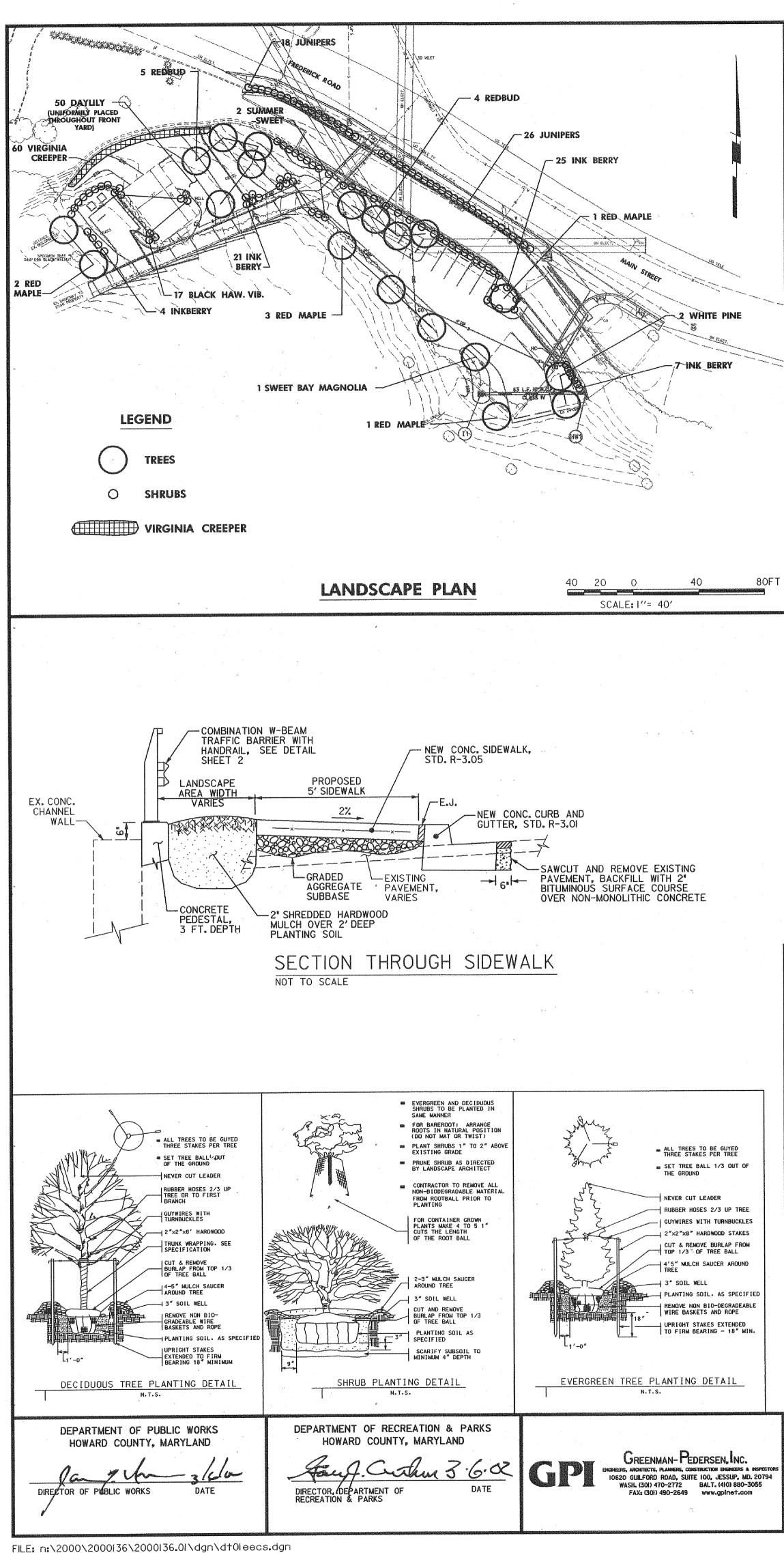
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	a esta	 da e est	5.60	

C P P	CONTRACTOR SHALL GRADE OUTFALL TO PROVIDE POSITIVE DRAINAGE FROM END OF CURB TO PROPOSED 3' WIDE 6" DEEP FINISHED OPENING W/					
	CLASS I RIPRAP OUTFALL		GERS AVE.			
FREDERICK N	$L = 22' \\ W_{B0} = 9' \\ d_{MAX} = 9.5" \\ d = 15" \\ TH = 19" \\ EDGE \\ ROADOF \\ CF \\ ROADOF \\ CF \\ ROADOF \\ CF \\ $		S S S S S S S S S S S S S S S S S S S	BGE RIGHT OF WAY: BGE HAS THE RIGHT TO CONSTRUCT, OPERATE AND MAINTAIN ELECTRICAL POLES AND SERVICE ON AND OVER PARCEL 221.		
N 583	TOO MINOR ARTERIALI	66' COUNTY R/W	TREAM OUFFER		N 583700	
AND	EDGE OF ROAD MANMANAMANAMANA MANAMANA HE		ACTOR SHALL INSTALL 235 FT. OF ND GUTTER AND 5 FT. CONCRETE LK, SEE SECTION THROUGH SIDEWALK SHEET 4 OF 8		00	
PARCEL 689	AA NOSE DOWN CURB	EB SOURCE	CONTRACTOR SHALL INSTALL 78 L.F. OF COMBINATION W-BEAN TRAFFIC BARRIER AND HANDRAIL SEE DETAILS SHEET 2 OF 8	NSTALL REMOVEABLE BOLLARD I FT.	<u>\</u>	
260-260-260-260-260-260-260-260-260-260-	PART I RETAINING WALL RETAINING WALL BO	CONC. ANNEL AINING WALL GUARD RAN		ROM BRIDGE DECK ALONG CENTERLINE BRIDGE, TYP. BOTH SIDES INSTALL SIDEWALK RAMP, TYPE 'A' STD. R-4.0I COORDINATE REMOVAL AND REPLACED	MENT CONTRACT	
CONDEA ELECTRIC, TERMINAT 5 FT. FROM BLDG., CA AND STAKE LOCATIO	AP. 275.00	SG5.000 COS SG5.000 COS EX. BROGE 262:88 REMOVED BN OTHERS	ALL 262.28	OF LAN WALLER METERS WITH THE BUI OF UTILITIES (1-410-3134900) CONTRACTOR SHALL RELOCATE EX. SPEED LIMIT SIGN TO LOCATION SH	HOWN	
NSTALL IS L.F. ORNAMENTAL FENCE, 270 TIE TO EXISTING INTRACTOR SHALL INSTALL (2)	80.44 B2 B2 B3280.30 21 EX. WELL EX.	CKPILE REA 265.00 MP	EX. GDARD RAIL	CONTRACTOR SHALL REMO OF, EX. GUARDRAIL AND RE ORNAMENTAL FENCE, SEE THIS SHEET	PLACE WITH NOTE 12, CONTRACTOR SHALL REMOV 218 L.F. OF EX. GUARDRAIL REPLACE WITH COMBINATION W-BEAM TRAFFIC BARRIER HANDRAIL, SEE DETAILS SH	AND N AND
INTRACTOR SHALL INSTALL (2) 5 FTX5 INCH THICK CONCRETE PADS FOR PRIVY PLACEMENT PARCEL 986 RYAN 20 / 230	COLORED SCHOOU FFE=280 4 2777.00 PUMP TO REA FFE=280 4 2777.00 POWN CURB 280,12 POWN CURB 280,12 POWN COLORED SCHOOU FFE=280 4 2777.00 278,00 POWN CURB 280,12 POWN COLORED SCHOOU FFE=280 4 2777.00 278,00 POWN COLORED SCHOOU FFE=280 4 2777.00 POWN COLORED SCHOOU FFE=280 4 2777.00 POWN CURB 280,12 POWN COLORED SCHOOU FFE=280 4 2777.00 POWN COLORED SCHOOU FFE=280 4 2777.00 POWN COLORED SCHOOU FFE=280 4 2777.00 POWN COLORED SCHOOU POWN COLORED SCHOOU POWN COLORED SCHOOU POWN COLORED SCHOOU POWN COLORED SCHOOU POWN COLORED POW	AIN W 20'R 265,000	2'R 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	K 261.00 261.00 K 261.00	2 OF 8	CONTRACTO THREE "NO P HOWARD CO FLOODPLAIN 410-313-243 PLACEMENT
SAST DEH BLACK WALNUT 280.28 SAST DEH BLACK WALNUT 280.28 INCORPORATE INTO EX. SOIL SEE TYP: SECTION		ACTOR SHALL MAKE ACT	EGE 325717 3257717 3257717 3257717 3257717 3257717 32577717 3257777 3257777 3257777 3257777 3257777 3257777 3257777 3257777 3257777 32577777 32577777 325777777 325777777777777777777777777777777777777	S SIACES No. 10 STORES	260.90 COS	CONTRACTOR SHALL TRANSITIO NEW PAYEMENT TO MEET EXIS EDGE OF ROAD INSTALL SHOEWALK RAMPS COUNT TYPE 'A' STD. R-4.01
SOIL, SEE TYP. SECTION SHEET 7 OF 7	200 100 L.F. CONCRETE	AND SEWER STUBS 5 FT FROM THE TO EXISTING ON-SITE ES PARCEL 249 RYAN 197 / 109 55	FLOODPLAIN	AIN EASEMENT 261.03 EX. GRAVEL		TREET (66' R-O-W WIDTH,
300 N 5835	PAVING NOTE:	(FR (WP-98-141), HUDSON BRANCH	ANJ BUFFER 264 *203392	PARKING LOT * 010 261.505 261.04 261.04 261.04 261.04	CO CO BGE #333845 #333845	II END NEW S CURB AND TEMPORARY ACCESS I
CONSTRUCTION NOTES: I. CONTRACTOR SHALL INSTALL STANDARD CONCRE (R-3.01) AND CONCRETE SIDEWALK (R-3.05) AS SH	ARE NO RELATED PL	ER (WP-98-141), HUDSON BRANCH ILIZATION REQUESTED THE ADDITION CK RETAINING WALL AND STABILIZATION IDSON BRANCH STREAM BANK. THERE LAN FILES FOR THIS PROJECT.	GRADE TO PROVIDE POSITIVE DRAINAGE	BILL 260.20 THC 260.20 THC BILL CONSTRUCTION BILL CONSTRUCTION BILL CONSTRUCTION CURB CON CURB CON CURB CON CON CON CON CON CON CON CON		CONTRACTOR SHAL AND DISPOSE OF 3 EX. GUARDRAIL EX. BUILSING REMOVE EX. 6" ASBESTOS CONCRETE PIPE TO THE
 COORDINATE RELOCATION OF EXISTING GAS SER PEDESTRIAN BRIDGE. GAS SERVICE SHALL BE AFF BRIDGE, CONTACT BALTIMORE GAS AND ELECTRIC REMOVE ELECTRICAL CONDUIT AND OUTLETS TH VEHICULAR BRIDGE. 	C, (410) 685-0123. HAT CROSS THE EXISTING CONDITION		DNTRACTOR SHALL INSTALL CLASS I RIPRAP IN EXISTING RIPRAP OUTFALL L = $35'$ W = $5'$ d ₅₀ = $915''$	262 262 262 262 262 262 262 262 262 262	P. GM PART 3 GN PARCEL 229 HOWARD COUNT	
 4. CAP WATER AND SEWER SERVICES 5' FROM BUIL PROVIDE HORIZONTAL REFERENCES TO THREE PER EACH SERVICE. SERVICE CONNECTION TO BUILDING 5. INSTALL CONCRETE WHEEL STOPS AT ALL PARK STATE HIGHWAY ADMINISTRAITON STD. NO. MD. 634 	KING SPACES, SEE MARYLAND 4.04.		d _{MAX} = 15" TH = 19" CONTRACTOR SHALL PROVIDE STORM INLET SEDIMENT TRAP FOR INLET 11, SEE DTL., SHEET 5 OF 7 -	1) 261.50 TPT P 261.50 D 261 SWALE PART 2 PARCEL 221	HW1 CLASS II RIPRAP OUTFALL-Q	REMOVE 8 LF. SECTION OI THE EX. RETAINING WALL AND REPLACE WITH CONCR WALL, SEE DETAIL SHEET
 6. THE CONTRACTOR SHALL GRADE TO PROVIDE PORTHAT POND WATER SHALL BE REGRADED. 7. SEE SPECIFICATION BOOK FOR GEOTECHNICAL INITIAL STRUCTURE SHALL ADJUST EXISTING UTILITIES VALVE BOXES AND METER COVERS TO PROPOSED 	FORMATION. S INCLUDING MANHOLES,		FOR EXISTING PARKING LOT AREAS TH BECOME GRASS AREAS CONTRACTOR S REMOVE 6" OF EX. GRAVEL/STONE MAT AND INSTALL 6" TOPSOIL	HOWARD COUNTY 3544 / 25	$L = 22' CRP W_{50} = 10.5' *428 d_{MAX} = 16" d = 24" TH = 32" 0% SLOPE CR&C PROP COR LDE 313$	CONTRACTOR SHALL REMOVE AND DISPOSE OF 21 FT. OF EX. GUARDRAIL AND 18 FT. OF EX. 24° CMP 265
 9. CONTRACTOR SHALL CURL SUPER SILT FENCE E FOR CONTAINMENT. 10. NO DISTURBANCE OR OBSTRUCTION TO STREAM DURING BRIDGE AND SITE CONSTRUCTION. 11. A WELL DRILLER SHALL REMOVE EXISTING PUMP DURING BRIDGE DURING PUMP DESCRIPTION OF MIT 	A FLOW IS TO BE ALLOWED			275 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3.	CONTRACTOR SHALL INSTALL GABION MATRESS AT THE OUTFALL OF THE TEMPORARY EARTH DIKE	٠
 II. A WELL DRILLER SHALL REMOVE EXISTING PUMF WELL IN FRONT OF BUILDING IN ACCORDANCE WIT REINSTALL PUMP HEAD IN ITS EXISTING CONDITI 30 DAYS OF NOTICE TO PROCEED. I2. ORNAMENTAL FENCE SHALL CONFORM TO THE STYLE BLACK GALVANIZED ALUMINUM OR EQUAL FENCE PRODUCTS, INC., IN TULSA, OKLAHOMA, ~1-4 	AEGIS II, GENESIS 2 RAIL MANUFACTURED BY AMERISTAR		280			20 10 0
13. FOR HANDICAP PARKING SIGNS I AND 2, REFER	TO SHEET 4 OF 8 FOR DETAILS. DEPARTMENT OF RECREATION & PARKS		DE MARY	S: W.R.F.		SCALE: I''= 20'
HOWARD COUNTY, MARYLAND	HOWARD COUNTY, MARYLAND Aug. and 3.6.02	GREENMAN-PEDERSEN, INC.		N: W.K.T.		SITE AND SIT

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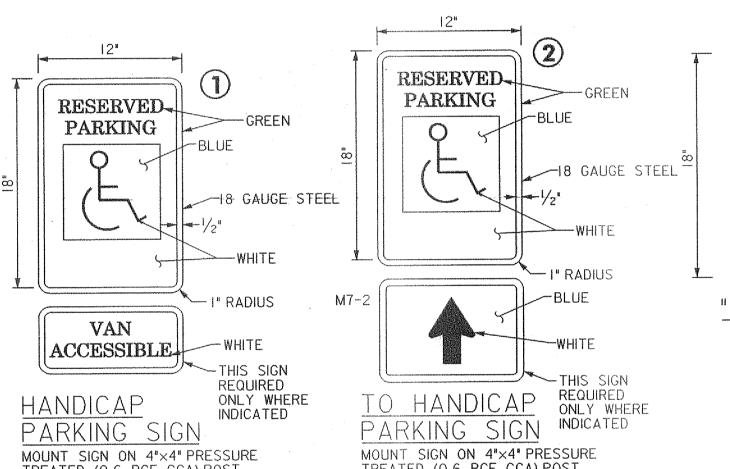


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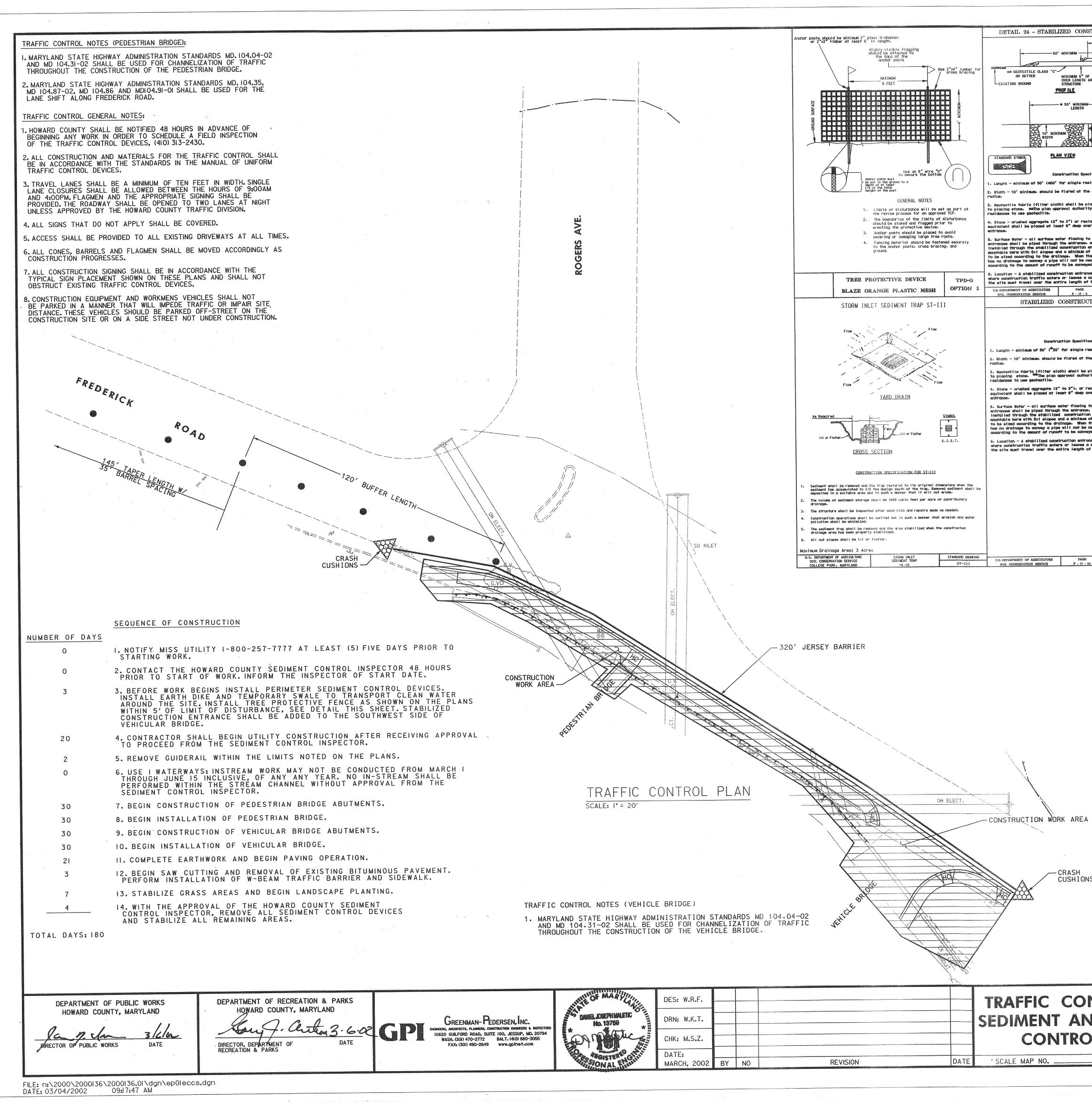
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PLANT LIST									
TOTAL	BOTANICAL NAME	COMMON NAME	SIZE	SPACING					
7	ACER RUBRUM 'OCTOBER GLORY'	OCTOBER GLORY RED MAPLE	3"CAL., B&B.	AS SHOWN					
2	PINUS STROBUS	WHITE PINE	I'CAL., B&B	AS SHOWN					
9	PINUS STROBUS	REDBLID	I'CAL., B&B	AS SHOWN					
57	ILEX GLABRA	INKBERRY	18 - 24ª, POT	AS SHOWN					
2	CLETHRA ALNIFOLIA	SUMMERSWEET	18 - 24", POT	AS SHOWN					
1	MYRICA PENSYLVANICA	SWEET BAY MAGNOLIA	18 - 24*, POT	AS SHOWN					
17	VIBURNUM PRUNIFOLIUM	BLACK HAW VIBURNUM	18 - 24", POT	AS SHOWN					
50	HEMEROCALIS 'HYPERION'	DAYLILY	I QT. POT	AS SHOWN					
44	ANDORRA	JUNIPER	I GAL. CONT.	AS SHOWN					
60 FLATS	DARTHENOCISSUS QUINQUEFOLIA	VIRGINIA CREEPER	100 EA. FLAT	8º 0.C.					

INTERIOR GREEN	AREA TABULATIONS
TOTAL PARKING AREA (SMALL LOT)	1,350 s.f.
INTERIOR GREEN AREA REQUIRED	0 s.f.
INTERIOR GREEN AREA PROVIDED	0 s.f.
INTERIOR SHADE TREES REQUIRED	0
INTERIOR SHADE TREES PROVIDED	0



	PLANT LIST		NTING NOTES hts shall conform to current "American Standards for Nursery Stock"	Forest Conservation Worksheet 2.0 Note: Use 0 for all negative numbers that result from the calculations. Net Tract Area	
TOTAL BOTANICAL NAME 7 ACER RUBRUM 'OCTOBER G		3"CAL., B&B. AS SHOWN to	American Association of Nurseryman (AAN), particularly with regards size, growth, size of ball, and density of branch structure.		0.8
2 PINUS STROBUS 9 PINUS STROBUS	REDBUD	I'CAL., B&B AS SHOWN Pro	plants (B&B or container) shall be properly identified by weather- of labels securely attached thereto before delivery to project site. els shall identify plants by name, species, and size. Labels shall not	Class III waters) C. Other Deductions C =	0.0
57 ILEX GLABRA 2 CLETHRA ALNIFOLIA	SUMMERSWEET 18	B - 24", POT AS SHOWN be	removed until the final inspection by the Landscape Architect.	D: Net Tract Area = (A-B-C) D = Land Use Category: Institutional Use	0.3
I MYRICA PENSYLVANICA 17 VIBURNUM PRUNIFOLIUM	BLACK HAW VIBURNUM	8 - 24", POT AS SHOWN 1f 1 mat	t does not meet the requirements of the specifications. All rejected by the contractor.	F. Conservation Threshold (Net Tract Area x 50 %)	0.1
50 HEMEROCALIS 'HYPERION' 44 ANDORRA		GAL. CONT. AS SHOWN the	Contractor shall furnish all plants in quantities and sizes to complete work as specified in the plant schedule.	Existing Forest Cover within the Net Tract Area G =	0.0
60 FLATS DARTHENOCISSUS QUINQUEFO	DLIA VIRGINIA CREEPER IC		stitutions in plant species or size shall not be permitted except with written approval of the Landscape Architect.	 H. Area of Forest Above Conservation Threshold H = If the Existing Forest Cover is greater than the Conservation Threshold, then H = Existing Forest Cover (G) - Conservation Threshold (F) 	0.0
TOTAL PARKING AREA	IOR GREEN AREA TABULATIONS	des	nts shall be located as shown on the drawings and by scaling or as Signated in the field by the Landscape Architect. All locations are to	Break Even Point	0.0
(SMALL LOT) INTERIOR GREEN AREA REQUIRE			approved by the Landscape Architect before excavation. Marctor shall contact Miss Utility prior to any excavation.	If the area of forest above the Conservation Threshold is greater than zero, then $I = (0.2 \text{ x} the area of forest above Conservation Threshold (H)) + the Conservation$	
INTERIOR GREEN AREA PROVIDE		for	utility lines are encountered in excavation of tree pits, other locations trees shall be selected by the Landscape architect. Such changes	J. Forest Cleaning Permitted Vitinous Midgauon	0.0
INTERIOR SHADE TREES PROVID		cho	Il be made by the contractor without additional compensation. No inges of location shall be made without the approval of the Landscape shitect.	J = Existing Cover (G) - Breakeven Point (I) Proposed Forest Clearing K. Total Area of Forest to be Cleared K =	0.0
		del	ntractor shall first locate and mark the underground utilities and Ineate the utility easement areas where no planting shall take place,	L. Total Area of Forest Remaining L = Existing Forest Cover (G) - forest to be cleared (K)	0.0
			or to locating and digging the pits for the trees. equipment and tools shall be placed so as to not interfere or hinder	Planting Requirements If you are retaining forest at or above the break even point (I), no planting is required.	
		the	e pedestrian and vehicular flow. ing planting operations, excess and waste materials shall be promptly	If not, calculate the planting requirement below: M. Reforestation for Clearing Above the Conservation Threshold M =	0.0
		and 12. The	d frequently removed from the site.	(1) If the total area of forest to be retained (L) is greater than or equal to the Conservation Threshold (F), then	
		pri	or to commencement of work. Quantities in the schedule are for the attractor's convenience.	 M = the area of forest to be cleared (K) × 0.25; or (2) If the forest to be retained (L) is less than the Conservation Threshold (F), then M = area of forest above Conservation Threshold (H) × 0.25 	
			disturbed areas of the site not planted with shrubs or ground cover all be seeded with lawn seed.	N. Reforestation for Clearing Below the the Conservation Threshold N = (1) If Existing Forest Cover (G) is greater than Conservation Threshold (F) and the	0.0
		har	planting beds as shown on the plan are to receive 3-4" of shredded rdwood bark mulch after planting and clean-up operations have been mpleted.	forest to be retained (L) is less than the Conservation Threshold (F), then $N = 2.0 \times (\text{the Conservation Threshold (F)} - \text{the forest to be retained (L)})$	
	12"			 If Existing Forest is less than or equal to the Conservation Threshold, then N = 2.0 x the forest cleared (K)) 	
T 12*				P. Credit for Retention Above the Conservation Threshold P =	0.0
RESERVED) RESERVI PARKIN	G	NO	then P = L - F Q. Total Reforestation Required Q = M + N - P R. Total Afforestation Required R =	0.0
PARKING	JE GREEN	BLUE		 (1) If Existing Forest Cover (G) is less than the Afforestation Threshold (E) then R = the Afforestation Threshold (E) - the Existing Forest Cover (G) 	
		18 GAUGE STEEL [∞]	PARKING	 (2) If Existing Forest Cover (G) is less than the Afforestation Threshold (E) and you are clearing forest, then R = the Afforestation Threshold (E) - the Existing Forest Cover 	
	"	WHITE		(G) + (2.0 x Forest to be Cleared (K)) S. Total Planting Requirement $S = Q + R$ S = -	0.1
	DST TREATED (0.6 P	WHITE THIS SIGN ICAP REQUIRED ONLY WHERE SIGN INDICATED 4"×4" PRESSURE	<u>NO PARKING"</u> <u>SIGN</u>	I. NO FORESTED HABITATS WERE IDENTIFIED OR DELINEATED WITHIN THE NET TRACT AREA. A 54.5' DBH BLACK WALNUT (JUGLANS NIGRA) SPECIMEN TREE WAS IDENTIFIED AND DELINEATED. 2. TREE AREAS WITHIN THE NET TRACT AREA DID NOT SATISFY THE FORESTED HABITAT CRITERIA AS OUTLINED IN THE HOWARD COUNTY FOREST CONSERVATION MANUAL OR THE STATE FOREST CONSERVATIO TECHNICAL MANUAL.	
	SCHEDULE A	nen bin den sen fan de kennen fan de kenn	MATCH THICKNESS 12"± #4 BARS 12" O.C. EACH WAY EACH FACE	PROPOSED TO MATCH EXISTING	
	PERIMETER LANDSCAPE EDGE			6"	
CATEGORY	ADJACENT TO ROADWAYS	ADJACENT TO PERIMETER PROPERTIES		DOWEL 6" INTO EXISTING CONCRETE TO REMAIN	
LANDSCAPE TYPE			PROVIDE 2" MIN. CLEARANCE, TYP.	MATCH HEIGHT OF	
LINEAR FEET OF ROADWAY FRONTAGE/PERIMETER	280	80' Farking Lot Behind Building	PROVIDE ROUGHENED CONCRETE SURFACE @ JOINT		
CREDIT FOR EXISTING VEGETATION (YES, NO, LINEAR FEET) (DESCRIBE BELOW IF NEEDED)	NO, NONE PROVIDED BETWEEN ROAD AND PARKING LOT	NO EXISTING VEGETATION ON ROADWAY SITE		12" 6" OF EXISTING CONCRETE	
		EXISTING ORNAMENTAL FENCE		INV 256 73 CHANNEL WALL TO REMAIN	
CREDIT FOR WALL, FENCE OR BERM (YES, NO, LINEAR FEET) (DESCRIBE BELOW IF NEEDED)	ORNAMENTAL FENCE PROVIDED ALONG ENTIRE SITE PERIMETER	CONSTRUCTED UNDER CORPS OF ENGINEERS CONTRACT	EXISTING INVERT OF CONCRETE CHANNEL, 255.73	PLANNING BOARD	
NUMBER OF PLANTS REQUIRED SHADE TREES EVERGREEN TREES SHRUBS	7	2 Shade Trees 20 Shrubs		NOT TO SCALE WALL DETAIL DATE 1/23/02	
NUMBER OF PLANTS PROVIDED		<u>12</u>		SITE DEVELOPMENT PLANS	
EVERGREEN TREES	2		Image: Second	APPROVED:	WING
SHRUBS (2:1 SUBSTITUTION) (DESCRIBE PLANT SUBSTITUTION CREDITS BELOW IF NEEDED)	78	21		SDP SHEET-4	a
COMMENTS: NO SCREENING OIS REQUIRED F ADDITIONAL SHRUBS WERE ADD BUILDING ALONG WITH ORNAMEN	OR AN EXISTING SCHOOL BUILDING, ED TO SCREEN PARKING LOT BEHIND ITAL FENCE.)		NECESSARY FOR THIS HOWARD CO. CAPITAL IMPROVEMENT PROJECT NO LANDSCAPE SURETY NECESSARY	4/1/02 1 Date 4/1/62 Date
DES: W.I			LANDSCAPE PLAN AND	ELLICOTT CITY COLORED SCHOOL -	SCALE AS SHOWN
ns No. 13769			SITE CONSTRUCTION	ACCESS BRIDGES AND SITE WORK	
CHK: M.S. DATE: MARCH,	5.Z. 2002 BY NO	REVISION	DATE ' SCALE MAP NO BLOCK NO	HOWARD COUNTY, MARYLAND Capital project no.n-3910	SHEET <u>4</u> 0F <u>26</u> SDP498
A CONTRACTOR	en e			SDP-01-130	



					217A1 00 00000	ER SILT FENCH	
STRUCTION ENTRANCE		L 22 - SILT FE	NCE Main length fence post. Minimam of 16" into	DI <u>HOTE</u> : FENCE POST SPACI SHALL NOT EXCEED CENTER TO CENTER	NG 10' <u>10'</u>	MAXIMM 1	
EXISTING PAVEMENT EARTH FILL PIPE AS NECESSARY E 2"-3" AGGREGATE NO WIDTH OF	FLOW FLOW		16" MINIMUM HEIGHT OF GEDTEXTILE CLASS F 8" MINIMUM DEPTH IN GROUND	GRDLND SURFAC 21/2 GA OR	FLOW	FLOW	34" MINIMAN 36" MINIMAN 36" MINIMAN
T 10' MIN. EXISTING	BRID BLAC BAR OF H & LAST LY & BY	36" MINIMUM FEHCE POST LENGTH FILTER CLOTH FLOW	MINIMUM 20" ABOVE	OK CHAIN LINK I FLOW FILTER	POSTS FILT	FER CLOTH 4" MININAUM 4	
PAVEMENT PAVEMENT	POSTS	GEDTEXTILE CLASS F	UNDISTURBED ORDUND ORDUND - FENCE POST DRIVEN A MINIMUM DF 16" INTO - THE GROUND	EMBED FILTER CLOT MINIMUM INTO GROU * IF MULTIPLE LAYERS REQUIRED TO ATTAIN	ARE	I_ FILTER CLOTH≇	STANDARD SYMBOL
itlaation Idenos iot).		TAPLE	STANDARD SYMBOL	1. Fending shall be 42 latest Maryland State for a 6' fence shall t posts.	t" in height and cone Highway Details far be used, substituting	truated in accordance Chain Link Fenoing. 1 42° tabric and 6' ie	The specification ngth
existing road to provide a turning aced over the existing ground prior y may not require single family	Manual and a second sec	'x thy equare (mini) sound quality hardwoo	num) out, of 1%2 diameter 3d. Steel posts will be	2. Chain link fence si The lower tension wirr required except on the 3. Filter cloth shall every 24° at the top	 broos and trues re sends of the tence. be tostened securely and aid section. 	ds, drive anahare and 1 to the chain link fe	i post cops are not nos with ties spaced
alsed or recycled concrete r the length and width of the or diverted toward construction maintaining positive drainage. Pipe	2. Geotecrille shall be fastened or staples at top and mid-secti for Geotecrille Class F: Tensile Strength 5	i ascurely to each film on and shall meet the O lbs/in (min.)	se post with wire ties	 Filter cloth shall When two asotlons of by 6° and folded. Maintenance shall i develop in the slit for 	of fliter oloth adjoi	in each other, they et id and eilt bulidupe :	ng i be over lopped
antronce shall be protected with a f 5° of stone over the pipe. Pipe has the SCE is located at a high spot and backsary. Pipe should be sized ad. A 6° minimum will be required. be shall be located at every point	Flow Rate 0 Filtering Efficiency 7 3. Where ends of geotextile fab folded and stapled to prevent a	ediment bypass.	oc.) Testi MSAT 322 Testi NSAT 322 ay ahali be overiapped.	7. Filter oloth shall stoples at top and all deotectlie Class fi Tensile Stref Tensile Modul fice Rate	be fostened securely d asotion and shall s opth 60 lbs/in us 20 lbs/in	y to such fence post a met the following rea (min.) Tes	iltin wire ties or pairements for t: MSM7 509 t: MSM7 509
Construction site. Vehicles leaving the stabilized construction entrance. MARYLAND DEFARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION TION ENTRANCE	4. \$11† Fenoe shall be inspecte buiges cools or when esdiment o U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE	eccasiotion reached 6	Gvent Croi Holittolised Wien 02 of the for 10 height. Gartiand department of Environment Water Management administration	Filtering Eti	Lolancy 75% (min.) CULTURE PA SEVICE H	Tos (h: [maryland de	TE MEMT 322 PARTMENT OF ENVIRONMENT AGEMENT ADMINISTRATION
	3	ilit Fenos Dasign Crit	er 10		Reston Orti	Norta	
nation Beidenos lot). Ne existing rood to provide a turning	Slope Steepness Flatter than 5011	(Maximum) Siope Length unimited	(Maximum) Silt Fence Length unlimited	Siope	Design Crit Slope Steepness	2000200000	t Fence Length (macrimum)
biased over the existing ground prior ity may not require single family solutiesd or recycled congrete	50:1 to 10:1 10:1 to 5:1 5:1 to 3:1 5:1 to 2:1	125 feet 100 feet 60 feet 40 feet	1.000 feet 730 feet 500 feet 250 feet	0 - 10% 10 - 20% 20 - 33%	0 - 1011 1011 - 511 511 - 311		Unilmited 1.500 fest 1.000 fest
ver the length and width of the to or diverted toward construction , saintaining positive drainage. Pipe h entrance shall be protected with a of 6° of stone over the pipe. Pipe has	2:1 and steeper Note: In areas of less than 27 system, soli Class Al so	20 feet Laicps and sandy soli Inclume sicce length an	120 fest s (USDA general alausification d elit fence length will be the only perimeter control	33 - 50% 50% +	311 - 211 211 +	100 feet	500 feet 250 feet
the SCE is incorted at a high spot and macasecry. Pipe should be sized yed. A 6" minimum will be required. nos shall be iccarted at every point construction site. Vehicles leaving if the stabilized construction entrance.	required.						
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MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION	U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE	РАСИ В - 16 - 3А	MARYLAND DEPARTMENT OF ENVIRONMEN WATER MANAGEMENT ADMINISTRATION	BOIL CONSERVATION	BREVICE H -	AGE MARYLAND I 26 - 3A WATER MA INFLOW PROT	REARTMENT OF ENVIRONME INAGRMENT ADMINISTRATION
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	A PL	PPRO ANNING I OWARD	VED BOARD	1. Gabtan Inflor baskets formin and a 3' batta	g a tropecoldal arce	scifications constructed of 9' x 3 s eaction 1' deep, wi	'x 9" gobion In 2:1 side sicpes.
	of H DATI	0WARD C <u>1/23/0</u>	2	5. The stone used 4. Soblone shall	l to fill the gabian be installed in acco	led under all gabian baskets shall be 4" - rdance with scarufactu	7". rars recossendations.
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19.0 STANDARDS AND SPECIFICATIONS

<u>FOR</u>

LAND GRADING

<u>Design Criteria</u>

The grading plan should be based upon the incorporation of building designs and street layouts that fit and utilize existing topography and desirable natural surroundings to avoid extreme grade modifications. Information submitted must provide sufficient topographic surveys and soll 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 water removal and vegetative treatment, etc.

Many counties have regulations and design procedures already established for land grading and cut and fill slopes. 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 erosion control, slope stabilization, safe disposal of runoff water and drainage, such as waterways, lined ditches, reverse slope benches (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 shall be incorporated into the plan:

I. Provisions shall be made to safely conduct surface runoff to storm drains, protected outlets or to stable water courses to insure that surface runoff will not damage slopes or other graded

- II. Cut and fill slopes that are to be stabilized with grasses shall not be steeper than 2:1. (Where the slope is to be mowed the slope should be no steeper than 3:1; 4:1 is preferred because of safety factors related to mowing steep slopes.) Slopes exceeding 2:1 shall require special design and stabilization considerations that shall be adequately shown on the plans.
- III. Reverse benches shall be provided whenever the vertical interval (height) of any 2: slope exceeds 20 feet; for 3:1 slope it shall be increased to 30 feet and for 4:1 to 40 feet. Benches shall be located to divide the slope face as equally as possible and shall convey the water to a stable outlet. Soils, seeps, rock outcrops, etc., shall also be taken into consideration when designing benches.
 - A. 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 6:1 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 between 2 percent and 3 percent, unless accompanied by appropriate design and computations.
- C. The flow length within a bench shall not exceed 800' unless accompanied by appropriate design and computations. For flow channel stabilization see temporary
- IV. 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
 - A. The face of the slope is or shall be stabilized and the face of all graded slopes shall be protected from surface runoff until they are stabilized.
- B. The face of the slope shall not be subject to any concentrated flows of surface water such as from natural drainageways, graded swales, downspouts, etc.
- C. 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 twofoot 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 i:i. 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 carries to a suitable outlet.

VI. Subsurface drainage shall be provided where necessary to intercept seepage that would otherwise adversely affect slope stability or create excessively wet site conditions.

- 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 related damages.
- VIII. Fill material shall be free of brush, rubbish, rocks, logs, stumps, building debris, and other objectionable material. It should be free of stones over two (2) inches in diameter where compacted by hand or mechanical tampers or over eight (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.
- IX. Stockpiles, borrow areas and spoll shall be shown on the plans and shall be subject to the provisions of this Standard and Specifications.

X. All disturbed areas shall be stabilized structurally or vegetatively in compliance with 20.0 Standards and Specifications for Vegetative Stabilization.

Seed Mix Table For Turf Establishment In Shaded areas

Durity

Common Name	Percent of Seed Mix	Purity N Percent Min.	Weedseed Percent Max.	Germanation Percent Min.		
Shadow chewing fescue or other improved Aurora hard fescue or other improved Flyer creeping red fescue or other Glade kentucky bluegrass or improved Manhattan II, Affinity or other impr	oved chewing fescue 30 1 hard fescue 30 creeping red fescue 20 1 kentucky bluegrass 10	90 90 90 90	1 1 1 1 1	80 80 80 80 80 80		
Note: * Application rate shall be * Seed mix percentages are ba * This seed mix will supersed permanent seed mixture list Documents unless otherwise * Seeds shall be mixed offsit * This mix is to be used for the engineer.	sed upon weight. e any other ed in the Contract allowed by the engineer. e and delivered throughly m			· · · · · ·		
				4 a 1 a 1		
 DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND Maryland Tor of public works DATE	DEPARTMENT OF RECREA HOWARD COUNTY, I Manufactoria DIRECTOR, DEPARTMENT OF RECREATION & PARKS		6a	GPI	GREENMAN-PEDERSEN, INC. Engineers, architects, planners, construction engineers a r 10620 guilford road, suite 100, jessup, md. Wash, (301) 470-2772 balt. (410) 880-30 Fax: (301) 490-2649 www.gpingt.com	20794

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21.0 STANDARD AND SPECIFICATIONS	HOWARD SOIL CONSERVATION DIS
FOR TOPSOIL	PERMANENT SEEDING NOTE:
Definition	Apply to graded or cleared areas not subject to immediate vegetative cover is needed.
Placement of topsoil over a prepared subsoil prior to establishment of permanent vegetation.	
Purpose	Seedbed Preparation: Loosen upper three inches of soil by r before seeding, if not previously loosened.
To provide a suitable soil medium for vegetative growth. Soils of concern have low moisture content, low nutrient levels, low pH, materials toxic to plants, and/or unacceptable soil gradation.	
Conditions Where Practice Applies	Soll Amendments: In Heu of soll test recommendations, use one I. Preferred - Apply 2 tons/acres dolomitic limestone (92 lb
I. This practice is limited to areas having 2:1 or flatter slopes where:	fertilizer (14 lbs/1000 sq.ft.)before seeding. Harrow or of seeding, apply 400 lbs/acre 30-0-0 ureaform fertiliz
A. The texture of the exposed subsoll/parent material is not adequate to produce vegetative growth.	2. Acceptable - Apply 2 tons/acres dolomitic limestone (92 fertilizer (23 lbs/1000 sq.ft.) Before seeding. Harrow or
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.	Seeding: For the periods March I - April 30, and August I - Oct
C. The original soil to be vegetated contains material toxic to plant growth.	Ibs/1000 sq.ft.)Of Kentucky 31 Tall Fescue per acres and 2 lb lovegrass. During the period of October 16 - February 28, pr Option I - Two tons per acres of well anchored straw mulch
D. The soil is so acidic that treatment with limestone is not feasible.	Option 2 - use sod. Option 3 - seed with 60 lbs/acres Kentucky 30 tall fescue ar
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	Mulching: Apply 1-1/2 to 2 tons per acre (70 - 90 lbs/1000 sq.
steeper than 2:1 shall have the appropriate stabilization shown on the plans. Construction and Material Specifications	after seeding. Anchor mulch immediately after application us acre (5 gal/1000 sq.ft.) of emulsified asphalt on flat areas. acre (8 gal/1000 sq.ft.) for anchoring.
I. Topsoil salvaged from the existing site may be used provided that it meets the standards as	Maintenance: Inspect all seeding areas and make needed repa
set forth in these specifications. Typically, the depth of topsoil to be salvaged for a given soil type ran be found in the representative soil profile section in the Soil Survey published by USDA-SCS in cooperation with Maryland Agricultural Experimental Station.	TEMPORARY SEEDING NOTE
II. Topsoil Specifications - Soil to be used as topsoil must meet the following:	Apply to graded or cleared areas likely to be re-disturbed
A. Topsoli 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	Seedbed Preparation: Loosen upper three inches of soil by r before seeding, if not previously loosened.
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	Soll Amendments: Apply 600 lbs/acre 10-10-10 fertilizer (14 lbs/
volume of cinders, stones, slag, coarse fragments, gravel, sticks, roots, trash, or other materials larger than 11/2"in diameter. B. Topsoli must be free of plants or plant parts such as bermuda grass, quackgrass,	Seeding:For periods March I - April 30 and from August 15 - 0 of annual rye (3.2 lbs/1000 sq.ft.).For the period May I - Aug lovegrass (0.07 lbs/1000 lbs/sq.ft.).For the period November
Johnsongrass, nutsedge, poison ivy, thistle, or others as specified.	tons/acre of well anchored straw mulch and seed as soon a
C. 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 soll in conjunction with tillage operations as described in the following procedures.	Mulching: Apply 1-1/2 to 2 tons per acre (70 - 90 lbs/1000 sq. after seeding. Anchor mulch immediately after application us acre (5 gal/1000 sq.ft.) of emulsified asphalt on flat areas. acre (8 gal/1000 sq.ft.) for anchoring.
III. For sites having disturbed areas under 5 acres place topsoil (if required) and apply soil amendments as specified in 20.0 Vegetative "Stabilization – Section I- Vegetative Stabilization Methods and Materials.	HOWARD SOIL CONSERVATION DISTR
IV.For sites having disturbed areas over 5 acres:	STANDARD SEDIMENT CONTROL NOT
A. On soil meeting Topsoil specifications, obtain test results dictating fertilizer and	I. A minimum of 48 hours notice must be given to the Howar Licenses and Permits, Sediment Control Division prior to
lime amendments required to bring the soil into compliance with the following: 1. pH for topsoil shall be between 6.0 and 7.5. If the tested soil demonstrates	2. All vegetative and structural practices are to be installed are to be in conformance with the 1994 MARYLAND STAND
a pH of less than 6.0, sufficient lime shall be prescribed to raise the pH to 6.5 or higher.	SOIL EROSION AND SEDIMENT CONTROL and revisions thereto.
2. Organic content of topsoil shall be not less than 1.5 percent by weight.	 Following initial soil disturbance or re-disturbance, permane completed within:
3. Topsoil having soluble salt content greater than 500 parts per million shall not be used.	A)7 calender days for all perimeter sediment control st slopes steeper than 3:1. B)14 calender days as to all other disturbed or graded
4. No sod or seed shall be placed on soll which has been treated with soll sterilants or chemicals used for weed control until sufficient time has elapsed (14 days min.) to permit dissipation of phyto-toxic materials,	4. All sediment traps/basins shown must be fenced and warni accordance with Vol.1, Chapter 7 of the HOWARD COUNTY
Note: Topsoil substitutes or amendments, as recommends by a qualified agronomist or soil scientist and approved by the appropriate approval authority, may be used in lieu of natural topsoil.	5. All disturbed areas must be stabilized within the time per 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSI CONTROL for permanent seeding, sod, temporary seeding stabilization with mulch alone shallonly be done when r
B. Place topsoll (if required) and apply soll amendments as specified in 20.0 Vegetative Stabilization - Section I- Vegetative Stabilization Methods and Materials.	proper germination and establishment of grasses. 6. All sediment control structures are to remain in place and
V. Topsoli Application	until permission for there removal has been obtained fr Inspector.
A. When topsolling, maintain needed erosion and sediment control practices such as	7. Site Analysis:
diversions, Grade Stabilization Structures, Earth Dikes, Slope Silt Fence and Sediment Traps and Basins.	Total Area of Site= 0.80 AcresArea Disturbed= 0.64 AcresArea to be Roofed or Paved= 0.28 AcresArea to be Vegetatively Stabilized= 0.36 Acres
I. Grades on the areas to be topsoiled, which have been previously established, shall be maintained, albeit 4" - 8" higher in elevation.	Total Fill = 0 Cu. Yds.
2. 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 soil 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.	Offsite waste/borrow area location_ <u>To be determine</u> * A site with a current active grading permit is needed for offsite waste/borrow_ <u>Site pian c</u> 8. Any sediment control practice which is disturbed by gradi repaired on the same day of disturbance.
3. 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	9. Additional sediment control must be provided, if deemed ne Control Inspector.
may otherwise be detrimental to proper grading and seedbed preparation.	10. On all sites with disturbed areas in excess of 2 acres, ap

may otherwise be detrimental to proper grading and seedbed preparation. 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: A. Composted Sludge Material for use as a soil conditioner for sites having disturbed

areas over 5 acres shall be tested to prescribe amendments and for sites having disturbed areas under 5 acres shall conform to the following, requirements:

1. 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.

2. Composted sludge shall contain at least | 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.

3. Composted sludge shall be applied at a rate of Iton/1,000 square feet.

B. 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. #I, Cooperative Extension Service, University of Maryland and Virginia Polytechnic Institutes. Revised 1973.

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	SONAL ENTRY	DATE: MARCH, 2002	BY	NO	REVISION	DATE	'SCALE MAP NO.

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te further disturbance where a permanent long-lived

raking, disking or other acceptable means

one of the following schedules: 1bs/1000 sq. ft.) And 600 lbs/acre 10-10-10 or disk into upper three inches of soil. At time 'Illzer (9 lbs/1000 sq. ft.)

2 Ibs/1000 sq. ft.)and 1000 Ibs/acre 10-10-10 or disk into upper three inches of soil.

October 15, seed with 60 lbs/acres (1.4 Ibs/acre (0.05 Ibs/1000 sq. ft.) Of weeping protect site by: ch and seed as soon as possible in the spring. and mulch with 2 tons/acre well anchored straw.

sq.ft.)of unrotted small grain straw immediately using mulch anchoring tool or 218 gallons per as. On slope 8 feet or higher, use 348 gallons per

pairs, replacements and reseedings.

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ed where a short-term vegetative cover is needed. raking, disking or other acceptable means

bs/1000 sq. ft.)

October 15, seed with 2-1/2 bushelper acre August 14, seed with 3 lbs/acre of weeping er 16 - February 28, protect site by applying 2 as possible in the spring, or use sod.

sq. ft.)of unrotted small grain straw immediately using mulch anchoring tool or 218 gallons per is. On slope 8 feet or higher, use 348 gallons per

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NOTES

vard County Department of Inspections, to start of any construction (313-1855).

lied according to the provisions of this plan and ANDARDS AND SPECIFICATIONS FOR

anent or temporary stabilization shall be

structures, dikes, perimeter slopes and all

led areas on the project site.

ning signs posted around their perimeter in TY DESIGN MANUAL, Storm drainage.

period specified above in accordance with the OSION AND SEDIMENT ing and mulching (section g). Temporary recommended seeding dates do not allow for

and are to be maintained in operative condition from the Howard County Sediment Control

rmined by the contractor

<u>grading permit or waiver may be necessary</u> ading activity for placement of utilities must be

necessary by the Howard County Sediment

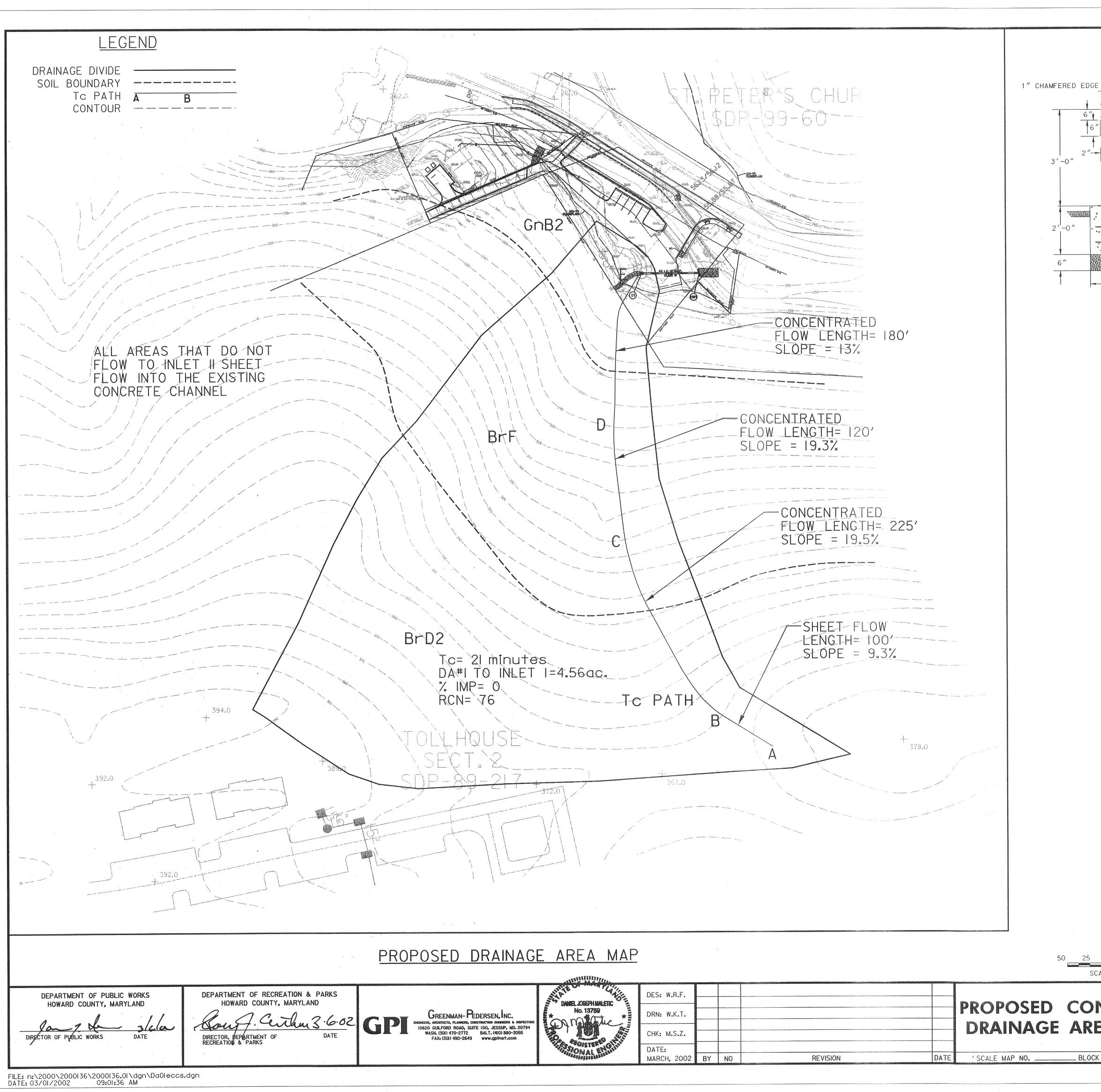
10. On all sites with disturbed areas in excess of 2 acres, approval of the inspection agency shall be Correction agency shall be Correction requested upon completion of installation of perimeter erosion and sediment controls, but before proceeding with any other earth disturbance or grading. Other building or grading inspection approvals may not be authorized until this initial approval by the inspection agency is made.

II. Trenches for the construction of utilities is limited to three pipe lengths or that which shall be back-filled and stabilized within one working day, whichever is shorter.

APPROVED PLANNING BOARD of HOWARD COUNTY 1/23/02

SITE DEVELOPMENT PLANS APPROVED: DEPARIMENTS OF PLANNING AND ZONING MULEUUUUU nent Engineering Division Date Dato 4/1/02 Date





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SIONAL ENGLIN	DATE: MARCH, 2002	BY	NO	REVISION	DATE	' SCALE MAP NO	F
	A CONSTERPO GININA	DANIEL LOSEPH MALETIC No. 13759 DRN: W.K.T. DRN: W.K.T. CHK: M.S.Z. DATE:	DANIEL LOSEPH MALETIC No. 13750 DRN: W.K.T. DRN: W.K.T. CHK: M.S.Z. DATE:	DANEL JOSEPH MALETIC No. 13759 DRN: W.K.T. DRN: W.K.T. CHK: M.S.Z. DATE:	DES: W.R.F. DES: W.R.F. DES: W.R.F. DES: W.R.F. DRN: W.K.T. CHK: M.S.Z. DATE:	DES: W.R.F. DES: W.R.F. DES: W.R.F. DES: W.R.F. DES: W.R.F. DRN: W.K.T. DRN: W.K.T. DATE:	DES: W.R.F. DES: W

M ATTACH WITH STAINLESS STEEL VANDALL PROOF SCREWS 6″¥ (2 PER POST) 6″ - 5¹/2"×5¹/2" ALUMINUM POST 2' <u>plan view</u> -LID CLOSED/POST REMOVED - HINGE TO BE WELDED TO LID & COLLAR - PROP. SURFACE 3.63.63.60 -4" GRADED AGG. 3/16" STEEL COLLAR -WELD-#4 REBAR--NO, 2 MIX CONCRETE 6″×6″×3/16″ -STEEL SLEEVE NOTE: LID SHALL HAVE 2"×¹⁄2" SLOT FOR EYEBOLT. - GRADED AGG. -----5 5/8" LID & CASING DETAIL NOTES: 1.) PAINT ALL EXPOSED SURFACES WITH 2 COATS ALKYD INDUSTRIAL ENAMEL. COLORS TO BE APPROVED BY ENGINEER. BOLLARD DETAIL 1¹/₂" BITUMINOUS CONCRETE SURFACE COURSE (SC)----2¹/₂" BITUMINOUS CONCRETE BASE COURSE (BC)-SLOPE ACCORDING TO PLAN PARKING LOT SECTION NOT TO SCALE NOTE: CONTRACTOR SHALL PROOF ROLL SUBGRADE BENEATH ALL PROPOSED PAVED AREAS TO DETECT UNSUITABLE SOIL CONDITIONS. 4" POLY-PAVEMENT MIXED W/ EX. SOIL-6" GRADED AGG. SUBBASE -----SLOPE ACCORDING TO PLAN $\overline{}$ APPROVED PLANNING BOARD of HOWARD COUNTY POLY-PAVEMENT PARKING LOT SECTION NOT TO SCALE DATE 1/23/02 GITE DEVELOPMENT PLANS APPROVED DEPARTMENT OF PLANNING AND ZONING Allelleennen Solar Date Engineering Division 4/1/02 Date Chief, Division of Land Development <u>4/1/02</u> Date 50 25 0 100FT 50 OF 8 SAME IN CONTRACTOR SDP SHEET-SCALE: |" = 50' SCALE AS ELLICOTT CITY COLORED SCHOOL -CONDITION SHOWN ACCESS BRIDGES AND SITE WORK AREA MAP HOWARD COUNTY, MARYLAND CAPITAL PROJECT NO. N-3910 _ BLOCK NO. SDP-01-130

