OC 97-07 Kent Island Elem. School Site Plan 04-07-0003c 51829-6706

Martin O'Malley

Governor

Anthony G. Brown



Margaret G. McHale Chair

Ren Serey
Executive Director

STATE OF MARYLAND CRITICAL AREA COMMISSION CHESAPEAKE AND ATLANTIC COASTAL BAYS

1804 West Street. Suite 100, Annapolis, Maryland 21401 (410) 260-3460 Fax: (410) 974-5338 www.dnr.state.md.us/criticalarea/

August 2, 2007

Ms. Jean Fabi Queen Anne's County Office of Planning and Zoning 160 Coursevall Drive Centreville, Maryland 21617

RE: 04-07-02-0003-c; 200 Elementary Way; Board of Education

Dear Ms. Fabi:

The site is located within the Limited Development Area (LDA) and Intensely Development Area (IDA) of the Chesapeake Bay Critical Area. The applicant proposes to redevelop the site with additions to an existing school.

The most recent information provided by the applicant's representative is that the applicant has proposed to meet the 15% afforestation requirement by planting trees on a school owned property on the opposite side of the adjacent creek from the project site, and the plantings to meet the requirement will be outside of existing Buffers. Based on this information, this office has no further comment. Please note however, that the County requires the following at a minimum: "Seventy native trees with a minimum height of four to six feet, or an equivalent alternative afforestation or reforestation planting standard as approved by the Department of Planning and Zoning, shall be planted for each acre of land required to be reforested or afforested. Bare root seedlings will not be considered an acceptable alternative." If the applicant proposed to place five contiguous acres within a deed restricted shore buffer in lieu of afforestation planting, then regeneration would be acceptable to Critical Area Commission staff (per County §14:1-54).

Thank you for the opportunity to provide comments on this proposal. If you have any additional questions please contact me at 410-260-3479.

Sincerely,

Marshall Johnson

Natural Resources Planner



STATE OF MARYLAND CRITICAL AREA COMMISSION CHESAPEAKE AND ATLANTIC COASTAL BAYS

1804 West Street. Suite 100, Annapolis, Maryland 21401 (410) 260-3460 Fax: (410) 974-5338 www.dnr.state.md.us/criticalarea/

May 24, 2007

Ms. Jean Fabi Queen Anne's County Office of Planning and Zoning 160 Coursevall Drive Centreville, Maryland 21617

RE: 04-07-02-0003-c; 200 Elementary Way

Board of Education for Queen Anne's County

Dear Ms. Fabi:

Thank you for providing resubmitted plans and information for the above referenced proposal. The site is located within the Limited Development Area (LDA) and Intensely Development Area (IDA) of the Chesapeake Bay Critical Area. The applicant proposes to redevelop the site with additions to an existing school. The redevelopment will result in an overall decrease in impervious surface by 2.2%. After the redevelopment, the LDA portion of the site is proposed to have 27.6% impervious surfaces. I have provided updated comments below.

1. The applicant has now proposed to meet the afforestation requirement without planting any trees, but via natural regeneration for five years before determining if trees need to be planted. The Queen Anne's County §14:1-54 (Woodland reforestation and afforestation standards in Critical Area District) states that for "developments within the Critical area which require greater than five acres of afforestation, natural regeneration within a deed restricted shore buffer may be permitted in lieu of the afforestation requirement of Subsection B(1) of this section." The afforestation requirement for the Kent Island Elementary School site is less than five acres; therefore, the current proposal does not meet this standard. A proposal that does not meet this standard would require Conditional Approval from the Critical Area Commission. Otherwise, Queen Anne's County Code requires that the applicant meet the afforestation requirement by planting the following at a minimum: "Seventy native trees with a minimum height of four to six feet, or an equivalent alternative afforestation or reforestation planting standard as approved by the Department of Planning and Zoning, shall be planted for each acre of land

required to be reforested or afforested. Bare root seedlings will not be considered an acceptable alternative." If the applicant proposed to place five contiguous acres within a deed restricted shore buffer in lieu of afforestation planting, then regeneration would be acceptable.

- 2. If the Kent Island and Bayside Elementary School sites function as one site, as stated in the 5/14/07 letter from the applicant's representative, then all of the information submitted to show compliance with the County Critical Area Program regulations should be based on that designated site area.
- 3. The newly submitted plans show a greater amount of allowable impervious surface for the LDA portion of the site than the previous plan set. Please explain whether the current plans are incorrect, or if the former plan set was incorrect, and ensure that the current plans show the correct amount of allowed impervious surface.

Thank you for the opportunity to provide comments on this proposal. If you have any additional questions please contact me at 410-260-3479.

Sincerely,

Marshall Johnson

Natural Resources Planner



STATE OF MARYLAND CRITICAL AREA COMMISSION CHESAPEAKE AND ATLANTIC COASTAL BAYS

1804 West Street, Suite 100, Annapolis, Maryland 21401 (410) 260-3460 Fax: (410) 974-5338 www.dnr.state.md.us/criticalarea/

April 17, 2007

Ms. Jean Fabi Queen Anne's County Office of Planning and Zoning 160 Coursevall Drive Centreville, Maryland 21617

RE: 04-07-02-0003-c; 200 Elementary Way

Board of Education for Queen Anne's County

Dear Ms. Fabi:

Thank you for providing resubmitted plans and information for the above referenced proposal. The site is located within the Limited Development Area (LDA) and Intensely Development Area (IDA) of the Chesapeake Bay Critical Area. The applicant proposes to redevelop the site with additions to an existing school. I have provided updated comments below.

1. County Code § 14:1-54 (Woodland reforestation and afforestation standards in Critical Area District) requires diverse forest planting. According to the County Code, diverse forest plantings shall include a canopy layer, an understory layer and a shrub layer. The applicant has proposed the minimum number of plantings required using trees of small size, and no shrubs. The required afforestation is proposed at an offsite location, when there appears to be adequate space on the subject site. According to the submitted plan sheet C18.1, the proposed afforestation area is "fallow field with a variety of young and volunteer plant material surrounded by a vegetated buffer along Cox Creek." As an existing Buffer, this area is already protected from disturbance, and according to the assessment, is already in the process of natural regeneration. It will very likely be a restored forest on its own. The result of using it as offsite afforestation instead of reforesting onsite, results in an overall loss in long term forest within the Critical Area around Cox Creek. Increasing the afforestation plantings or planting area to compensate for this loss is recommended.

2. Please forward the letter from DNR addressing the presence of sensitive species on this site to our office when it becomes available. The plans should not be approved until this letter is received and any issues are addressed.

Thank you for the opportunity to provide comments on this proposal. If you have any additional questions please contact me at 410-260-3479.

Sincerely,

Marshall Johnson

Natural Resources Planner



STATE OF MARYLAND CRITICAL AREA COMMISSION CHESAPEAKE AND ATLANTIC COASTAL BAYS

1804 West Street, Suite 100, Annapolis, Maryland 21401 (410) 260-3460 Fax: (410) 974-5338 www.dnr.state.nd.us/criticalarea/

March 2, 2007

Ms. Jean Fabi Queen Anne's County Office of Planning and Zoning 160 Coursevall Drive Centreville, Maryland 21617

RE: 04-07-02-0003-c; 200 Elementary Way

Board of Education for Queen Anne's County

Dear Ms. Fabi:

Thank you for providing information on the above referenced proposal. The lot is located within the Limited Development Area and Intensely Development Area (IDA) of the Chesapeake Bay Critical Area. The applicant proposes to redevelop the site with additions to an existing school. I have provided Commission Staff comments below.

- 1. The plans indicate that a temporary parking lot is proposed in the IDA portion of the site. Please submit additional information addressing this part of the proposal such as the length of time the area will be used for parking, whether it is an existing or proposed gravel parking area, what is the intended use after it is no longer used for parking, etc.
- 2. Development in the IDA must meet standards, including the 10% rule for stormwater management. The applicant must submit the 10% calculations (Worksheet A) if gravel is proposed for the temporary parking area in the IDA. Please note that where practicable in the IDA, permeable areas shall be established in vegetation.
- 3. The site plan shows a soil stockpile area on the existing drainage of the site, and near existing vegetation. The applicant should not propose development activities in the Critical Area that could adversely impact water quality. Therefore, the soil staging area must be placed in a more appropriate location that will minimize potential impacts to the drainage, stormwater quality and existing vegetation.

- 4. The applicant should explain why the required afforestation is proposed off-site when there appears to be adequate space on the subject site. The explanation should include reasoning for not placing afforestation on site, and may include documentation of benefits of locating the afforestation in its proposed location (e.g. habitat connectivity, planting in buffers, etc). If the applicant wishes to maintain the afforestation plantings off-site, doing so should be mitigated by increasing the planting density, species diversity, plant size, and adding shrubs and ground cover to the planting plan.
- 5. Stormwater management standards of Maryland Department of the Environment (COMAR 26.09.01) must be met for development proposed in the Critical Area Limited Development Area. The applicant should document that these requirements will be met for the project.
- 6. Because the applicant is proposing to alter the parking lot of a site in the Critical Area, this would be an ideal opportunity to incorporate low impact development stormwater elements which reduce water quality impacts.
- 7. Our records indicate that this site is within a sensitive species project review area. The applicant has stated that a letter was requested from DNR addressing the presence of sensitive species on this site. Please forward the letter from DNR to our office.

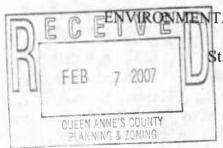
Thank you for the opportunity to provide comments on this proposal. If you have any additional questions please contact me at 410-260-3460.

Sincerely,

MAL

Marshall Johnson

Natural Resources Planner



Jan Reese, P.O. Box 298, St. Michaels, Maryland 21663 410-745-2875

3 February 2007

CHESAPEAKE BAY CRITICAL AREA ENVIRONMENTAL ASSESSMENT PROPERTY OF QUEEN ANNE'S COUNTY BOARD OF EDUCATION

15.3 ACRES ± ON THE NORTH SIDE OF MD ROUTE 18 IN STEVENSVILLE, KENT ISLAND, QUEEN ANNE'S COUNTY, FOURTH ELECTION DISTRICT, TAX MAP 56, BLOCK 6, PARCEL 45

INTRODUCTION

The property bounds the north side of MD Route 18 (Main Street) about 1500 feet east of its intersections with MD Route 835 in Stevensville, Kent Island, Queen Anne's County. The property location and configuration are depicted in Figure 1, while it can be located on Queen Anne's County ADC Maps 22-23, K1-A1.

The multi-sided, sort of key-shaped property's primary access is via MD Route 18 to a central complex comprised of a single-story elementary school building, five portable classroom units, exterior playgrounds, bus parking areas, and numerous vehicle roadways. Non-impervious areas are mowed lawn landscaped with about 10 small trees. Church Street and developed residential lots bound the property on the north, Rails to Trails pathway and a public library on the east, MD Route 18 and developed commercial lots on the south, and State Street and developed residential and commercial lots on the west.

Approximately 13.385 acres of the property are zoned Suburban Estate (SE), however 0.687 acre (entrance roadway between commercial lots) directly adjacent to MD Route 18 is zoned Village Center (VC), and 1.27 acres undeveloped in the extreme west portion adjacent to State Street is zoned Neighborhood Conservation (NC-8) by the Queen Anne's County, Department of Planning and Zoning. The eastern 9.48 acres are within limits of the Chesapeake Bay Critical Area with most designated Limited Development Area (LDA), but a 0.504 portion adjacent to Route 18 between adjoining commercial lots is designated Intense Development Area (IDA). I visited the property on 1 November 2006 to collect information for this Chesapeake Bay Critical Area Environmental Assessment.

PROPOSED DEVELOPMENT

The property is proposed for removal of the existing portable classrooms, and some concrete pad and vehicle roadway areas. The existing school building will receive additions to the northwest and southeast portions while some bus parking areas and roadways will be slightly reconfigured. Limited Development Area (LDA) designation permits 1.317 acres (57,371.2) of impervious surfaces on the property. Existing impervious areas total 2.617 acres (114,001.0) of which 0.827 acre (36,023.7) will be removed. Proposed additional surfaces of 0.611 acre (26,615.0) will at completion yield a net impervious area of 2.427 acres (105,734.0). This is a net reduction from the existing impervious surfaces. Existing impervious surfaces were in place prior to the Critical Area Ordinance, thus are grandfathered. The school expansion will continue to be primarily accessed from MD Route 18, and provided potable water and sewage disposal by existing public systems.

EXISTING NATURAL FEATURES

AQUATIC RESOURCES

The property does not bound open tidewater, thus there are no aquatic resources associated with the property.

TERRESTRIAL RESOURCES

Topography

The U.S. Geological Survey, 1973 (Photo-revised) Kent Island, MD Topographic Quadrangle Map (Figure 1) plots no elevation contours on the property or in the region suggesting the property is level, while the nearest elevation given is 13 feet above sea level at the intersection of MD Route 18 and Duke Street about 400 feet west of the property. Level property void of slopes is confirmed by the site visit. Topography elevation contours plotted on the McCrone, Inc., 2007 Modernization and Expansion of the Kent Island Elementary School give survey located elevations on the property ranging 8-15 feet above sea level. Level topography void of slopes is confirmed by the site visit.

Soils

Figure 2A is taken from the U.S. Department of Agriculture, NRCS/SCS, 2002 <u>Soil Survey of Queen Anne's County, MD, Sheet 31</u>, and shows a soil inclusion line with a north-south aspect divides the property about in half with hydric Othello silt loam soil (Ot) in the west portion and non-hydric Mattapex-Butlertown silt loam soils in the east portion. Both these substrates are prime agricultural soils in Queen Anne's County. Soil configurations from the Soil Survey are plotted on the McCrone, Inc., 2007 <u>Modernization and Expansion of the Kent Island Elementary School</u>.

Slow permeability, seasonally near-surface groundwater hydrology, and/or frequent flooding create severe limitations for sewage effluent disposal in all property substrates, while limitations are also severe with Othello soils use for homesites and vehicle roadways and with Mattapex-Butlertown for vehicle roadways. Limitations are moderate for use of Mattapex-Butlertown silt loam soils for homesites.

100-Year Flood Plain

The Federal Emergency Management Agency, 1992 <u>Queen Anne's County, MD, Unincorporated Areas, Flood Insurance Rate Map 240054, Panel 0038C</u> indicates the entire property is in Flood Hazard Zone "C", an area of minimal flooding outside limits of the 100-year tidal flood. The McCrone, Inc., 2007 <u>Modernization and Expansion of the Kent Island Elementary School</u> notes absence of 100-year flood plain on the property.

Wetlands

Figure 2B is taken from the U.S. Department of the Interior, FWS, 1982 National Wetland Inventory, Kent Island, MD Map that plots no wetlands on or near the property, however the site visit found a few small portions of the property appear to meet the wetland criteria as defined in the U.S. Army Corps of Engineers, 1987 Corps of Engineers Wetland Delineation Manual. Landward margins of the non-tidal wetland areas found on the property are field delineated by Environmental Regulations Consultant, Inc. on 1 November 2006, subsequently field survey located and plotted by McCrone, Inc., 2007 Modernization and Expansion of the Kent Island Elementary School.

Hydrology and Streams

There was no surface hydrology outside the western-most delineated wetland and adjoining ditches during the site visit. Hydrology in this delineated small wetland area appears to have its origins on adjoining and/or nearby properties channeled onto the subject property by drainage ditches.

The U.S. Geological Survey, 1973 (Photo-revised) <u>Kent Island, MD Topographic Quadrangle Map</u> (Figure 1) and the U.S. Department of Agriculture, NRCS/SCS, 2002 <u>Soil Survey of Queen Anne's County, MD, Sheet 31</u> (Figure 2A) show no bodies of surface hydrology (pond, impoundment) or streams on the property and that is confirmed by the site visit. Various ditch pathways on the property are plotted on the McCrone, Inc., 2007 <u>Modernization and Expansion of the Kent Island Elementary School.</u>

Vegetative Cover

Mowed lawn covers the property outside impervious areas. The few small landscape trees are mostly exotic species of conifers and deciduous trees while the wetland areas have limited cattails, switch grass, smartweed, and cutgrass. There are no natural plant communities on the property.

Wildlife

Mowed lawn in a highly developed area provides no cover, water or foods for organisms such as amphibians, reptiles, birds, and mammals. Indeed, no form of wildlife was identified on the property during the site visit.

Rare and Endangered Species

No rare, threatened or endangered species of plant or wildlife listed in MD COMAR 08.03.08 were observed on the property during the site visit. An Environmental Review for rare or endangered habitats and species was requested

from the MD Department of Natural Resources, Wildlife and Heritage Service on 5 February 2007. A copy of that request is enclosed herein and a copy of the MD DNR response will be made a part of this report when received.

The Queen Anne's County, Department of Planning and Zoning, 1995 Queen Anne's County, Natural Resources Map plots the nearest active nesting of protected Bald Eagle (Haliaeetus leucocephalus) about two straight-line miles east-southeast of the property. Protected colonial waterbird nesting sites and known occurrence of Delmarva Fox Squirrel (Sciurus niger) are respectively mapped within 1500 feet south of the property (Least Tern colony on roof of Food Lion Supermarket) and about six straight-line miles east of the property. The U.S. Department of the Interior, FWS, Chesapeake Bay Field Office, 2004 Delmarva Fox Squirrel Occurrence in Queen Anne's County, MD plots the nearest squirrel occurrence about 5.5 miles east of the property.

PRECAUTIONS FOR POTENTIAL ENVIRONMENTAL IMPACTS

Presence of hydric soil, and survey located non-tidal wetland margins with a 25 feet landward buffer are plotted and/or noted on the McCrone, Inc., 2007 Modernization and Expansion of the Kent Island Elementary School to comply with the Queen Anne's County, Critical Area Program and wetland regulations. Erosion and sediment control during excavation, grading and construction will be addressed in a plan developed in accordance with the Queen Anne's County, Soil Conservation standards to minimize the quantity and improve the quality of stormwater run-off to Cox Creek. Disposal of sewage effluent will be provided to the development by an existing public system.

SUMMARY

Approximately 9.5 acres of the property are within the Chesapeake Bay Critical Area with about nine acres designated Limited Development Area (LDA) and 0.5 acre Intense Development Area (IDA). The property is a mowed lawn outside impervious surfaces of an existing school building complex with numerous vehicle roadways central to the property proposed for modernization and expansion of the existing school building. The property contains hydric Othello soil, a few small areas of non-tidal wetlands, and is within 1500 feet of a protected colony of nesting waterbirds, but is void of slopes, 100-year flood plain, bodies of surface hydrology, streams, natural vegetative communities, wildlife, and rare or endangered species. Landward margin of the Critical Area, topography elevation contours, hydric soil configuration, wetlands and their 25 feet landward buffer, and drainage ditches are field delineated, survey located, and/or plotted onto the McCrone, Inc., 20076 Modernization and Expansion of the Kent Island Elementary School.

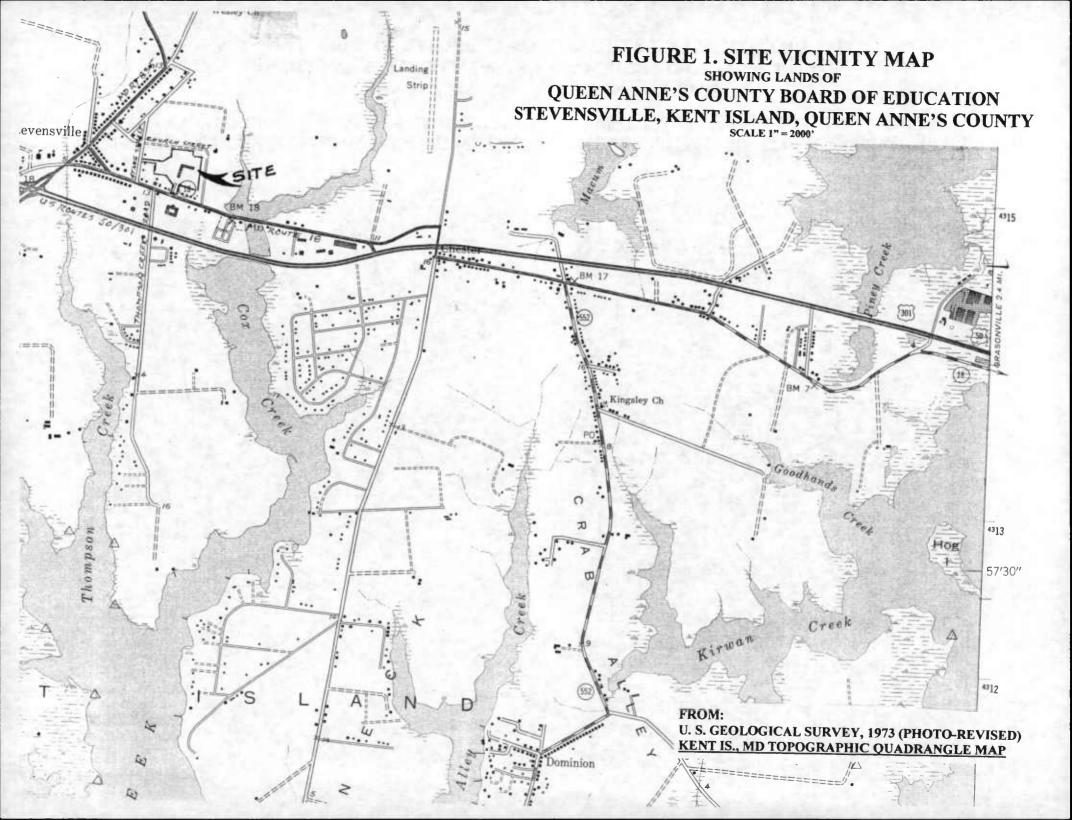
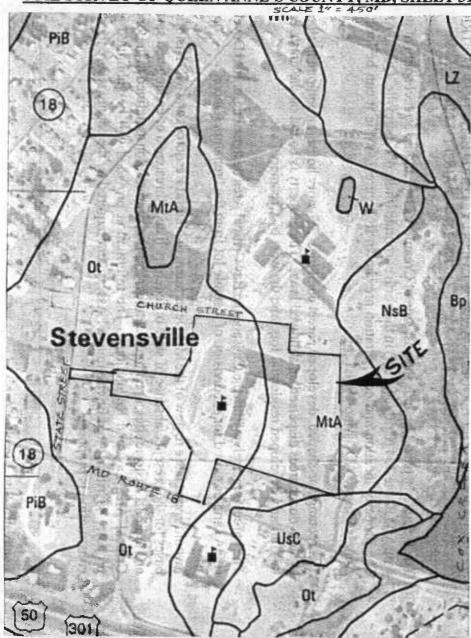


FIGURE 2. SOILS AND WETLANDS ON PROPERTY OF QUEEN ANNE'S COUNTY BOARD OF EDUCATION, STEVENSVILLE, KENT ISLAND, QUEEN ANNE'S COUNTY, MARYLAND

A) U.S. DEPARTMENT OF AGRICULTURE, NRCS/SCS, 2002 SOIL SURVEY OF QUEEN ANNE'S COUNTY, MD, SHEET 31



B) U.S. DEPARTMENT OF THE INTERIOR, FWS, 1982

NATIONAL WETLAND INVENTORY, KENT ISLAND, MD MAP





Martin O'Malley, Governor
Anthony G. Brown, Lt. Governor
Fic Schwaab, Deputy Secretary

MAY 1 4 2007

QUEEN ANNE'S COUNTY
PLANNING & ZONING

May 10, 2007

Mr. Jan Reese Environmental Regulations Consultant, Inc. P.O. Box 298 St. Michaels, MD 21663

RE: Environmental Review for Property of Queen Anne's County Board of Education, Stevensville, Tax Map 56, Parcel 45, Kent Island Elementary School, Queen Anne's County, Maryland.

Dear Mr. Reese:

In regard to your inquiry, the Wildlife and Heritage Service has determined that the Least Tern colony located on Thompson Creek Mall is not a concern for this project site, due to the distance across US Route 50. However, we do have records for a Least Tern colony utilizing the rooftop at Kent Island Elementary School itself. This colony was documented by the WHS as active with an estimated 15 breeding pairs in June 2006. It is assumed that the birds are again nesting on the roof of the school this year.

Least Terns have threatened status in Maryland as a breeding species. Conservation of waterbird colonies that are located in the Chesapeake Bay Critical Area is required by state law. Significant mortality of chicks or eggs resulting from disturbance of the colony during the breeding season is a violation of the U.S. Migratory Bird Treaty Act. Disturbance includes actions such as cutting nearby trees or nearby construction that causes abandonment of chicks by the adults.

In order to avoid impacts to the colony, we recommend that no construction occur on the site during the breeding season. The breeding season for Least Terns is generally April 15 through July 31 of any given year. During the breeding season, all human entry onto the rooftop should be restricted to only that essential for protection of the colony. Human disturbance of colony sites that results in significant mortality of eggs and/or chicks is considered a prohibited taking under various state and federal regulations.

The WHS is willing to provide further technical assistance as needed. Thank you for allowing us the opportunity to review this project. If you should have any further questions regarding this information, please contact me at (410) 260-8573.

Sincerely,

Lori A. Byrne,

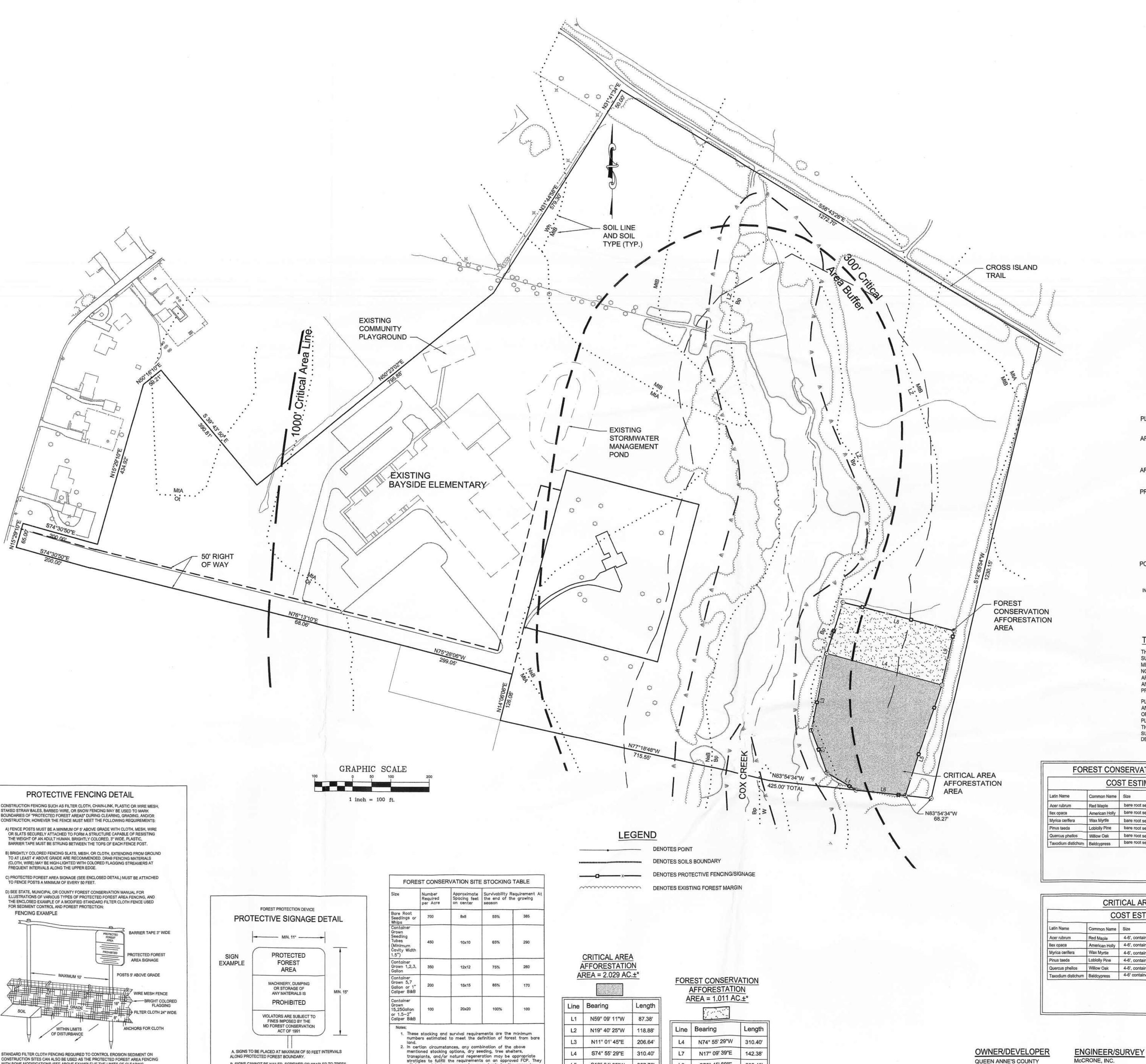
Environmental Review Coordinator Wildlife and Heritage Service

a. Bym

MD Dept. of Natural Resources

ER #2007.0350.qa Cc: L. Hoerger, CAC

S.A. Smith, WHS



L5 S18° 04' 05"W 307.76'

L6 N83° 54' 34"W 129.49'

will be evaulated on a case—by—case basis by the spproving

3. Spacing does not imply that trees must be planted in a grid

S75° 45' 60"E 299,49'

L9 S12° 49' 32"W 146.80'

CONSTRUCTION SITES CAN ALSO BE USED AS THE PROTECTED FOREST AREA FENCING

B. SIGNS CANNOT BE NAILED, SCREWED OR STAPLED TO TREES.

C. SIGNS WITH SIMILAR WORDING MAY BE OBTAINED FROM

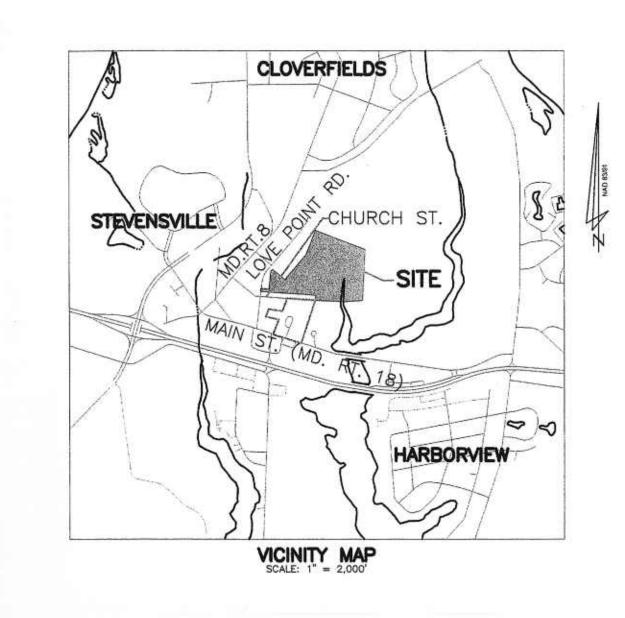
SURVEYOR/FORESTRY SUPPLY STORES.

WITH SOME MODIFICATIONS (SEE ABOVE EXAMPLE) IF THE LIMITS OF CLEARING,

THE PROTECTED FOREST AREA OR IF LIMITS OF DEVELOPMENT DISTURBANCE

ARE ANY DISTANCE OUTSIDE THE BOUNDARIES OF THE PROTECTED FOREST AREA.

GRADING AND/OR CONSTRUCTION ARE SYNONYMOUS WITH THE BOUNDARIES OF



OFFSITE CRITICAL AREA AFFORESTATION PLANTING PLAN

PLANTING RESPONSIBILITY:

Q.A.C. BOARD OF EDUCATION 202 CHESTERFIELD AVENUE CENTREVILLE, MARYLAND 21617 AFFORESTATION SITE LOCATION: QUEEN ANNE'S COUNTY, FOURTH DISTRICT SOUTH SIDE OF CROSS ISLAND TRAIL TAX MAP: 56 SOUTHEAST CORNER OF PARCEL 336

PARCEL: 336 ADC MAP: 23, BLOCK: 1A

AFFORESTATION AREA ASSESSMENT: 2.209 ACRES OF FALLOW FIELD WITH A VARIETY OF YOUNG VOLUNTEER PLANT MATERIAL SURROUNDED BY A VEGETATED BUFFER ALONG COX CREEK AND THE PROPERTY LINE COMPOSED OF MATTAPEX-BUTLERTOWN SILT LOAM (MtB) SOILS.

PRE-PLANTING: REMOVE ANY INVASIVE OR NOXIOUS PLANT MATERIAL. EXISTING VOLUNTEER NATIVE SPECIES CAN REMAIN. WITHIN ONE YEAR, OR TWO GROWING SEASONS AFTER COMPLETION OF DEVELOPMENT

AND/OR APPROVAL OF THE SUBDIVISION.

CONTAINER GROWN 4'-6' TALL WHIP TREES AND 18" HIGH SHRUBS. MATERIAL: ENVIRONMENTAL CONCERN, INC., ST. MICHAELS, MARYLAND, OR APPROVED LOCAL SOURCE. STOCK: 94 TREES: 20% EVERGREEN, 50% SHADE TREES, 30% UNDERSTORY TREES MIX OF NATIVE SPECIES AS SHOWN. ANY RECOMMENDED SPECIES OR PORTION NOT AVAILABLE AT TIME OF NURSERY ORDER WILL BE REPLACED WITH AVAILABLE, SIMILAR, SPECIES FOUND GROWING

METHOD: APPROXIAMTELY 28' ON CENTER

ON THE EAST SIDE OF COX CREEK

POST-PLANTING:

"PROTECTED FOREST AREA" SIGNS BOLTED ON STEEL OR WOOD FENCE POSTS ERECTED AT 40-50 FEET INTERVALS FACING OUTWARD ALONG THE AFFORESTATION AREA BOUNDARIES TO REMAIN IN PERPETUITY.

DEPARTMENT OF PLANNING & ZONING, 160 COURSEVALL DRIVE, CENTREVILLE, MD. 21617

AFFORESTATION MUST BE INSPECTED AT 12 AND 24 MONTH INTERVALS AFTER PLANTING, AND A WRITTEN REPORT ADDRESSING STATUS OF THE TREES AND RECOMMENDATIONS FOR CORRECTING ANY NOTABLE EXISTING MORTALITY (DAMAGE, DISEASE, DROUGHT, PESTS, ETC.) FILED WITH THE FOREST CONSERVATION COORDINATOR, QUEEN ANNE'S COUNTY,

TWO YEAR PROTECTION AND MAINTENANCE

THE PURPOSE OF THE TWO YEAR PROTECTION AND MAINTENANCE IS TO INCREASE THE SURVIVABILITY OF THE PLANT MATERIAL BY REDUCING COMPETING VEGETATION, DISEASE, AND MECHANICAL INJURY. ONCE ESTABLISHED, CLEARING OR CUTTING OF THE AFFORESTATION AREAS IS NOT PERMITTED AS THE AREAS REMAIN IN LONG TERM PROTECTION. AFTER THE COMPLETION OF ALL AFFORESTATION THE OWNERS OF TRACT 4A SHALL PERFORM ALL TASKS NECESSARY TO MAINTAIN AND PROTECT THE AFFORESTATION AREAS SHOWN HEREON FOR A PERIOD OF TWO (2) YEARS. THE PROTECTION AND MAINTENANCE HEREUNDER SHALL INCLUDE, BUT IS NOT LIMITED TO:

PLANTING SPECIES OR APPROVED CULTIVARS NATIVE TO THE PHYSIOGRAPHIC REGION OF THE COUNTY AND COMPATIBLE WITH THE EXISTING SITE; WATER, FERTILIZING, MULCHING, THINNING, REPLACEMENT OF DAMAGED OR DEAD PLANT MATERIALS, CONTROLLING COMPETING VEGETATION, AND PROTECTING PLANTS FROM DISEASE, PESTS AND MECHANICAL INJURY DURING THE INITIAL PLANTING AND THROUGHOUT THE TWO YEAR MAINTENANCE PERIOD AS NECESSARY; PROVIDING PROTECTIVE DEVICES SUCH AS FENCING, RETAINER WALLS AND INTERPRETIVE SIGNS AS NECESSARY TO PREVENT THE DESTRUCTION OR DEGRADATION OF THE PLANTING SITE.

	COS	ST ESTIMATE					PLANTIN	G TABL	<u>.E</u>									
Latin Name	Common Name	Size	Quantity	Unit Cost	Extended Cost	Latin Name	Common Name	Quantity	Size									
Acer rubrum	Red Maple	bare root seedling	118	\$0.60	\$ 70.80	Acer rubrum	Red Maple	118	bare root seedling									
llex opaca	American Holly	bare root seedling	106	\$0.90	\$ 95,40	llex opaca	llex opaca American Holly Myrica cerifera Wax Myrtle		llex opaca American Holly 106 bare		bare root seedling							
Myrica cerifera	Wax Myrtle	bare root seedling	106	\$0.60	\$ 63.60	Myrica cerifera			bare root seedling									
Pinus taeda	Lobiolly Pine	bare root seedling	142	\$0.50	\$0.50	\$0.50	\$0.50	\$0.50	\$0.50	\$0.50	\$0.50	\$0.50	\$0.50	\$ 71.00	Pinus taeda Lobiolly Pine		142	bare root seedling
Quercus phellos	Willow Oak	bare root seedling	118	\$0.60	\$ 70.80	Quercus phellos	Willow Oak 118 bare roo	bare root seedling										
Taxodium distichum	Baldcypress	bare root seedling	118	\$0.75	\$ 88.50	Taxodium distichum	Baldcypress	118	bare root seedling									
				Subtotal = Multiplier Subtotal =	\$ 460.10 x 3 \$1,380.30	Proposed mix of plant material to be 20% evergreen (Red Maple, Willow Oak, Baldcypress), 30% unders Myrtie). See above for quantities. Plant material av Inc in St. Michaels, Maryland (410-745-9620), or other			trees (American Holly, Wax le from Environmetal Concern,									

COST ESTIMATE						PLANTING TABLE					
Latin Name	Common Name	Size	Quantity	Unit Cost	Extended Cost	Latin Name	in Name Common Name		Size		
Acer rubrum	Red Maple	4-6', container	26	\$12.00	\$ 312.00	Acer rubrum	Red Maple	26	4-6', container		
llex opaca	American Holly	4-6', container	23	\$22.00	\$ 506.00	llex opaca	American Holly	23	4-6', container		
Myrica cerifera	Wax Myrtle	4-6', container	23	\$14.00	\$ 322.00	Myrica cerifera	Wax Myrtle	23	4-6', container		
Pinus taeda	Lobiolly Pine	4-6', container	31	\$11.00	\$ 341.00	Pinus taeda	Loblolly Pine	31	4-6', container		
Quercus phellos	Willow Oak	4-6', container	26	\$14.00	\$14.00	\$14.00	\$ 364.00	Quercus phelios	Willow Oak	26	4-6', container
Taxodium distichum	Baldcypress	4-6' container	26	\$12.00	\$ 312.00	Taxodium distichum	Baldcypress	26	4-6' container		
				Subtotal = Multiplier Subtotal =	\$ 2,157.00 x 3 \$6,471.00	(Red Maple, Willow Myrtle). See above	Oak, Baldcypress), 30	% understory naterial availab	blolly Pine), 50% hardwood trees trees (American Holly, Wax ble from Environmetal Concern, pproved nurseries.		

SOIL CONSERVATION SERVICE

QUEEN ANNE'S COUNTY DEPARTMENT OF PUBLIC WORKS

McCRONE, INC.

207 N. LIBERTY STREET

PHONE: (410) 758-2237

CENTREVILLE, MARYLAND 21617

QUEEN ANNE'S COUNTY

202 CHESTERFIELD AVENUE

CENTREVILLE, MARYLAND 21617

BOARD OF EDUCATION

PROJECT NO. SHEET NO.

REVISION DATE(S)

03\07\07 STAC COMMENTS 05\11\07 STAC COMMENTS

4/30/2007

NOTE: SEE SHEET C1.1 FOR A DETAILED LEGEND PERTAINING TO THIS SET OF DRAWINGS.

DRAWN BY CAD NO. NATURAL RESOURCES CONSERVATION SERVICES

23 HS Hemerocallis 'Stella D'oro

18 SA Sedum 'Autumn Joy'

18 PV Panicum virgatum 'Shenandoah'

DAYLILY

SHENANDOAH SWITCHGRASS

AUTUMN JOY SEDUM

1 QUART CONT., 2' O.C

1 GALLON CONT.

1 QUART CONT., 2' O.C.

TREE PLANTING DETAIL

** MULCH SHALL BE A SHREDDED VARIETY OF HARDWOOD BARK

NOT TO SCALE

SHRUB PLANTING DETAIL

** MULCH SHALL BE A SHREDDED VARIETY OF HARDWOOD BARK

NOT TO SCALE

NOT TO SCALE

PLANTING SPECIFICATIONS

A. MATERIALS:

1. PLANTS SHALL BE NURSERY GROWN IN ACCORDANCE WITH GOOD HORTICULTURAL PRACTICES, AND GROWN UNDER CLIMATIC CONDITIONS SIMILAR TO THOSE IN THE LOCALITY OF THE PROJECT. THEY SHALL HAVE BEEN ROOT PRUNED WITHIN THE LAST TWO YEARS. THEY SHALL BE SOUND, HEALTHY AND VIGOROUS, WELL BRANCHED AND DENSELY FOLIATED WHEN IN LEAF. THEY SHALL BE FREE OF DISEASE, PEST, EGGS OR LARVAE, AND SHALL HAVE A HEALTHY, DEVELOPED ROOT SYSTEM. PLANTS SHALL NOT BE PRUNED BEFORE DELIVERY. TREES WITH A DAMAGED OR CROOKED LEADER OR MULTIPLE LEADERS, ABRASIONS ON THE BARK, SUNSCALD, DISFIGURING KNOTS OR FRESH CUTS OVER 1 1/2" WILL BE REJECTED. NO CHANGE IN QUANTITY, SIZE, KIND OR QUALITY OF PLANT SPECIFIED WILL BE PERMITTED WITHOUT THE APPROVAL OF THE LANDSCAPE ARCHITECT/ DESIGNER.

2. TOPSOIL SHALL BE FERTILE, FRIABLE AND TYPICAL OF THE LOCALITY; IT SHALL BE FREE OF STONES, LUMPS, PLANTS, ROOTS, STICKS AND SHALL NOT BE DELIVERED IN A FROZEN OR MUDDY CONDITION.

3. PLANTING SOIL (BACKFILL MIX) SHALL BE FIVE PARTS TOPSOIL AND ONE PART WET LOOSE

4. STAKING MATERIALS: GUY WIRE SHALL BE PLIABLE 12 GAUGE GALVANIZED TWISTED TWO F. STAKING AND PRUNING: STRAND WIRE. HOSE SHALL BE A SUITABLE LENGTH OF TWO-PLY, REINFORCED BLACK RUBBER HOSE 3/4" INCH IN DIAMETER; STAKES SHALL CONFORM TO THE DETAIL ON THIS

5. WRAPPING MATERIAL SHALL BE A STANDARD MANUFACTURED TREE WRAPPING PAPER, BROWN IN COLOR WITH CRINKLED SURFACE AND FASTENED BY AN APPROVED METHOD. B. APPLICABLE SPECIFICATIONS AND STANDARDS:

1. "STANDARDIZED PLANT NAMES," LATEST EDITION AMERICAN JOINT COMMITTEE ON

HORTICULTURAL NOMENCLATURE. 2. "AMERICAN STANDARD FOR NURSERY STOCK," LATEST EDITION, AMERICAN ASSOCIATION

OF NURSERYMEN. C. DIGGING AND HANDLING OF PLANT MATERIALS:

1. IMMEDIATELY BEFORE DIGGING, SPRAY ALL EVERGREEN OR DECIDUOUS PLANT MATERIAL IN FULL LEAF WITH ANTI-DESICCANT, APPLYING AN ADEQUATE FILM OVER TRUNKS, BRANCHES, TWIGS, AND/ OR FOLIAGE.

2. DIG BALL AND BURLAP (B&B) PLANTS WITH FIRM NATURAL BALLS OF EARTH, OF DIAMETER NOT LESS THAN THAT RECOMMENDED BY AMERICAN STANDARD FOR NURSERY STOCK, AND IF SUFFICIENT DEPTH TO INCLUDE THE FIBROUS AND FEEDING ROOTS. PLANTS MOVED WITH A BALL WILL NOT BE ACCEPTED IF THE BALL IS CRACKED OR BROKEN BEFORE OR DURING PLANTING OPERATIONS.

D. EXCAVATION OF PLANTING AREAS:

1. STAKE OUT ON THE GROUND LOCATIONS FOR PLANTS AND OUTLINES OF AREA TO BE PLANTED AND OBTAIN APPROVAL OF THE LANDSCAPE ARCHITECT/DESIGNER BEFORE EXCAVATION IS BEGUN.

E. PLANTING OPERATIONS:

 SET PLANTS AT SAME RELATIONSHIP TO FINISHED GRADE AS THEY BORE TO THE GROUND FROM WHICH THEY WERE DUG. USE PLANTING SOIL TO BACKFILL APPROXIMATELY 2/3 FULL, WATER THOROUGHLY BEFORE INSTALLING REMAINDER OF THE PLANTING SOIL TO TOP OF PIT, ELIMINATING ALL AIR POCKETS.

SET PLANTING PLUMB AND BRACE RIGIDLY IN POSITION UNTIL THE PLANTING SOIL HAS BEEN STAMPED SOLIDLY AROUND THE BALL AND ROOTS. CUT ROPES OR STRINGS FROM TOP OF BALL AFTER PLANT HAS BEEN SET. LEAVE BURLAP OR CLOTH WRAPPING INTACT AROUND BALLS. TURN UNDER AND BURY

PORTIONS OF BURLAP AT TOP OF BALL. 3. PROTECT PLANTS AT ALL TIMES FROM SUN OR DRYING WINDS, PLANTS THAT CANNOT BE PLANTED IMMEDIATELY ON DELIVERY SHALL BE KEPT IN THE SHADE, WELL PROTECTED WITH SOIL, WET MOSS OR

OTHER ACCEPTABLE MATERIAL AND SHALL BE KEPT WELL WATERED. PLANTS SHALL NOT REMAIN UNPLANTED FOR LONGER THAN THREE DAYS AFTER DELIVERY. 4. PLANTS SHALL NOT BE BOUND WITH WIRE OR ROPE AT ANY TIME SO AS TO DAMAGE THE BARK OR BREAK

BRANCHES. PLANTS SHALL BE LIFTED AND HANDLED FROM THE BOTTOM OF THE BALL ONLY. 5. MULCH ALL PITS AND BEDS WITH A THREE INCH LAYER OF DOUBLE SHREDDED HARDWOOD BARK MULCH

IMMEDIATELY AFTER PLANTING AND WORK INTO THE TOP THREE INCHES OF THE PLANTING SOIL. FORM A 3" EARTH SAUCER AROUND EACH PLANT. WATER ALL PLANTS IMMEDIATELY AFTER PLANTING.

1. STAKING SHALL BE COMPLETED IMMEDIATELY AFTER PLANTING. PLANTS SHALL STAND PLUMB AFTER STAKING. STAKES AND GUY WIRES SHALL BE REMOVED AT THE END OF THE GUARANTEE PERIOD AND DEPOSITED OF OFF SITE BY THE CONTRACTOR.

2. PRUNE PLANTS AT THE TIME OF PLANTING AS DIRECTED BY THE LANDSCAPE ARCHITECT/DESIGNER TO REMOVE 1/5 TO 1/3 OF THE FOLIAGE, REMOVE ALL DEAD WOOD, SUCKERS, OR BROKEN BRANCHES AND PRESERVE THE NATURAL CHARACTER OF THE PLANT.

G. GUARANTEE:

ALL PLANT MATERIALS SHALL BE GUARANTEED FOR ONE (1) FULL YEAR FROM THE DATE THAT THE LANDSCAPE INSTALLATION IS ACCEPTED AS COMPLETE. PLANT MATERIAL NOT FOUND TO BE IN A HEALTHY, VIGOROUS CONDITION AT THE BEGINNING OF THE SECOND GROWING SEASON IS TO BE REPLACED.

ALL AREAS REMAINING DISTURBED AFTER CONSTRUCTION, PAVING AND INSTALLATION OF THE

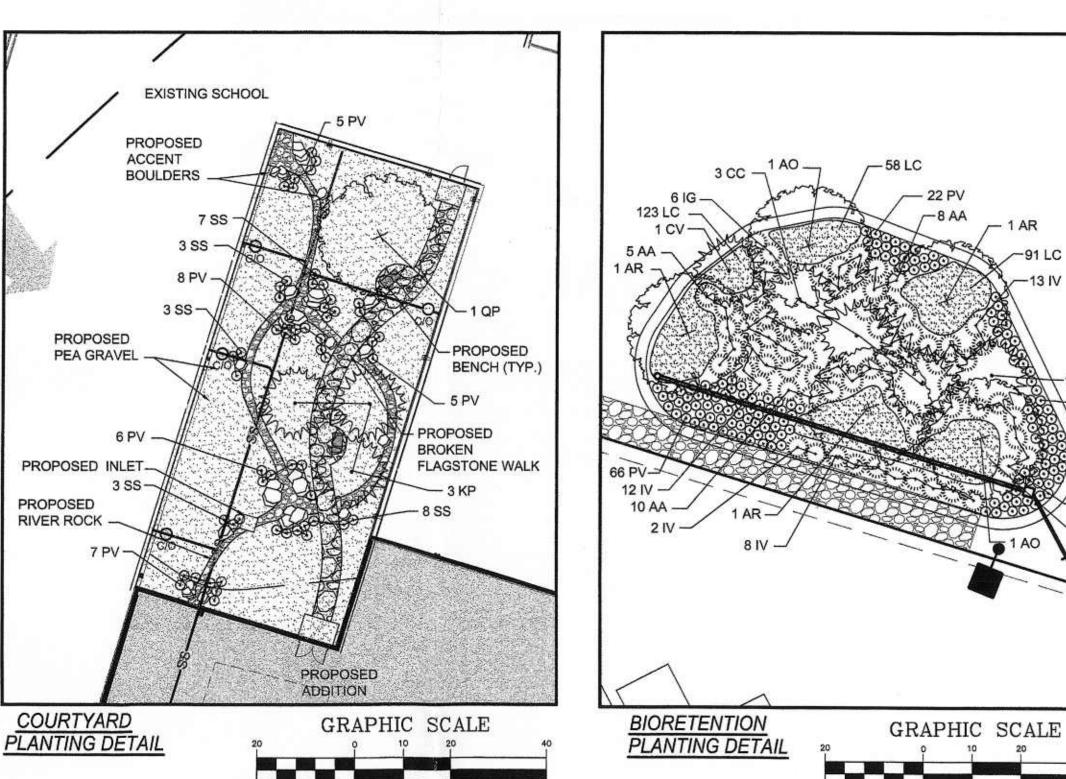
LANDSCAPING ARE TO SEEDED. A. SEED BED PREPARATION: APPLY 25 LBS. OF 10-10-10 FERTILIZER PER 1000 SQ.FT. HARROW OR DISC

INTO SOIL TO A DEPTH OF 3-4 INCHES. APPLY PULVERIZED GROUND LIMESTONE, 50 LBS. PER 1000 SQ.

B. SEEDING: APPLY 4.5 LBS PER 1000 SQ. FT. OF KENTUCKY 31 TALL FESCUE OR A SUITABLE COMPARABLE MIX ON A MOIST SEED BED WITH SUITABLE EQUIPMENT.

C. MULCHING: IMMEDIATELY AFTER SEEDING, UNIFORMLY MULCH ENTIRE AREA WITH UNDERWEATHERED SMALL GRAIN STRAW AT A RATE OF 1 1/2"-2" TONS PER ACRE.

FOR BEST RESULTS. SEEDING SHOULD BE PERFORMED BETWEEN MARCH 1ST AND APRIL 30TH OR AUG. 15TH TO OCT. 31ST.



OVERALL LANDSCAPE CALCULATIONS CONSERVATION, VC (VILLAGE CENTER) FOR DEED REFERENCE, SEE TSP 121/354 EXISTING AND PROPOSED USE - SCHOOL TAX MAP 56, GRID 6, PARCEL 45 GROSS SITE AREA 668,298 SF (15.342 AC± BASE SITE AREA 655,684 SF (15.052 AC± EXISTING LANDSCAPE AREA = 421,536 SF (9.677 AC±) = 505,923 SF (11.614 AC±) REQUIRED LANDSCAPE AREA PROPOSED LANDSCAPE AREA = 444,200 SF (10.197 AC±)

STREET BUFFER CALCULATIONS MARYLAND ROUTE 18 (MAIN STREET) - "B" BUFFER - 15' WIDE PROPOSED BUFFER LENGTH PLANT UNITS PER 150 LINEAR FEET PLANT UNITS REQUIRED

= ALTERNATIVE #1 2.5" CAL. CANOPY TREES REQUIRED = 1.42 X 1 = 1.42 OR (1) 1.5" CAL. UNDERSTORY TREES REQUIRED = 1.42 X 2 = 2.84 OR (3) 18" HIGH SHRUBS REQUIRED = 1.42 X 10 = 14.20 OR (14) STATE STREET - "C" BUFFER - 20' WIDE PROPOSED BUFFER LENGTH 50 LINEAR FEET PLANT UNITS PER 150 LINEAR FEET = 50/150 = 0.33 X 3 = 1.00 PLANT UNITS REQUIRED PLANT UNIT ALTERNATIVE PROPOSED = ALTERNATIVE #1 2.5" CAL. CANOPY TREES REQUIRED = 1.00 X 1 = 1.00 OR (1) 1.5" CAL. UNDERSTORY TREES REQUIRED = 1.00 X 2 = 2.00 OR (2)

= 1.00 X 10 = 10.00 OR (10)

PPROPOSED BUFFER LENGTH PLANT UNITS PER 150 LINEAR FEET PLANT UNITS REQUIRED = 356/150 = 2.37 X 2 = 4.74 PLANT UNIT ALTERNATIVE PROPOSED = ALTERNATIVE #1 2.5" CAL. CANOPY TREES REQUIRED = 4.74 X 1 = 4.74 OR (5) 1.5" CAL. UNDERSTORY TREES REQUIRED = 4.74 X 2 = 9.48 OR (9) 18" HIGH SHRUBS REQUIRED

LANDSCAPE CALCULATIONS - NC-8 GROSS SITE AREA BASE SITE AREA 655,684 SF (15.052 AC±) 53,492 SF (1.228 AC±) BASE SITE AREA IN NC-8 ZONING 44.818 SF (1.029 AC±) EXISTING LANDSCAPE AREA 28,575 SF (0.656 AC±) REQUIRED LANDSCAPE AREA PROPOSED LANDSCAPE AREA 44,818 SF (1.029 AC±) NO ADDITIONAL LANDSCAPE IS PROPOSED AS .. AS ADDITIONAL DISTURBANCE IS NOT PROPOSED IN THIS AREA. THERE ARE 34 PROPOSED PARKING SPACES TO BE DELINEATED IN THE NC-8 AREA OF THE SITE. HOWEVER, THERE IS NO REQUIREMENT FOR PARKING LOT LANDSCAPING IN THE CODE FOR NC-8 ZONING.

1 inch = 20 ft.

GROSS SITE AREA 668,298 SF (15.342 AC±) BASE SITE AREA BASE SITE AREA IN VC ZONING 27,662 SF (0.635 AC±) EXISTING LANDSCAPE AREA 6,932 SF (0.159 AC±) REQUIRED LANDSCAPE AREA 10,563 SF (0.243 AC±) PROPOSED LANDSCAPE AREA 12,524 SF (0.288 AC±) NO ADDITIONAL LANDSCAPE IS PROPOSED AS THIS AREA WILL NOT BE DISTURBED WITH THE PROPOSED SITE WORK. CRITICAL AREA FOREST CALCULATIONS

GROSS SITE AREA IN CRITICAL AREA = 412,949 SF (9.480 AC±) GROSS SITE AREA IN LDA EXISTING FOREST COVER IN LDA PROPOSED FOREST CLEARING IN LDA REQUIRED FOREST COVER IN LDA (15%) = 58,649 SF (1.346 AC±) AFFORESTATION REQUIRED FOR LDA = 58,649 SF (1.346 AC±) AFFORESTATION PROPOSED FOR LDA = EXISTING FOREST COVER IN IDA 0 SF (0.000 AC±) PROPOSED FOREST CLEARING IN IDA 0 SF (0.000 AC±) REQUIRED FOREST COVER IN IDA

AFFORESTATION REQUIRED FOR IDA AFFORESTATION FOR THE CRITICAL AREA IS PROPOSED TO OCCUR OFFSITE ON THE BAYSIDE ELEMENTARY SCHOOL PROPERTY IN CONJUNCTION WITH REQUIRED FOREST CONSERVATION PLANTINGS. THE AREA OF PROPOSED AFFORESTATION INCLUDES 1.346 AC± OUTSIDE THE 300' BUFFER AND 0.680 AC± IN THE 300' BUFFER.

GROSS SITE AREA	=	668,298 SF	(15.342 AC±)
BASE SITE AREA	=	655,684 SF	(15.052 AC±)
BASE SITE AREA IN SE ZONING	=	574,531 SF	(13.189 AC±)
EXISTING LANDSCAPE AREA	=	369,785 SF	(8.489 AC±)
REQUIRED LANDSCAPE AREA	5	466,784 SF	(10.716 AC±)
PROPOSED LANDSCAPE AREA	=	386,855 SF	(8.881 AC±)
PARKING LOT LANDSCAPE CALCULATIONS (18:1-72)		
PROPOSED PARKING SPACE		115	
PLANT UNITS PER 24 SPACES	=	3	
PLANT UNITS REQUIRED	=	104/24 = 4.7	9 X 3 = 14.37
그녀는 아니 보고 이렇게 하고 하게 되었으면 보고 있는 것으로 모르는 것은 것이 되었다고 있다.			

1 inch = 20 ft

= ALTERNATIVE #5

= 14.37 X 3 = 43.11 OR (43)

2.5" CAL., CANOPY TREES REQUIRED = 14.37 X 2 = 28.74 OR (29) 18" HIGH SHRUBS REQUIRED = 14.37 X 5 = 71.85 OR (72) THERE ARE 9 EXISTING PARKING LOT TREES THAT WILL TO REMAIN. THE REMAINING 56 TREES REQUIRED ARE PROPOSED ON THE PLAN.

PLANT UNIT ALTERNATIVE PROPOSED

SE - VC DISTRICT BOUNDARY BUFFER "A"

3" CAL, CANOPY TREES REQUIRED

POSED BUFFER LENGTH	=	568 LINEAR	FEET			
NT UNITS PER 150 LINEAR FEET	=	1	21 TO 12 TO			
NT UNITS REQUIRED	=	568/150 = 3.79 X 1 = 3.79				
NT UNIT ALTERNATIVE PROPOSED	=	ALTERNATI	TOTAL STATE OF THE			
2.5" CAL. CANOPY TREES REQUIRED	=	3.79 X 1 = 3.	0.000			
1.5" CAL. UNDERSTORY TREES REQUIRED	=	3.79 X 2 = 7.				
18" HIGH SHRUBS REQUIRED	=		37.90 OR (38)			
QUIRED ON LOT LANDSCAPING (18:1-71)						
IIMUM REQUIRED LANDSCAPE AREA	=	466,784 SF	(10.716 AC±)			
S AREA IN LANDSCAPE BUFFERS	=	100100000000000000000000000000000000000	(0.337 AC±)			
S AREA IN PARKING LOT LANDSCAPE	=		(0.281 AC±)			
EA OF SITE TO BE LANDSCAPED	=		(10.099 AC±)			
NT UNITS REQUIRED	=	10.10 X 2 =				
NT UNIT ALTERNATIVE PROPOSED	=	ALTERNATIV				
2.5" CAL. CANOPYTREES REQUIRED	= :		20,20 OR (20)			
1.5" CAL. UNDERSTORY TREES REQUIRED	=		10.40 OR (40)			
100 UICH CHOURE DEOLUDED	223	00 00 1/ 40	000 00 00 (00)			

18" HIGH SHRUBS REQUIRED = 20.20 X 10 = 202.00 OR (202) THERE ARE 25 EXISTING ON LOT CANOPY TREES IN EXCESS OF 2.5" CALIPER. AS A RESULT, NO NEW ON LOT CANOPY TREES ARE PROPOSED AND 28 UNDERSTORY TREES ARE PROPOSED. AS A SUBSTITUTION FOR 7 OF THE UNDERSTORY TREES ALONG THE BUILDING, 21 SHRUBS HAVE BEEN PROPOSED IN AN EFFORT TO LEAVE THE VIEW FROM THE WINDOWS OPEN. THE REQUIRED SHRUBS ARE PROPOSED AS

Y	SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE
	KP	Koelreuteria paniculata	GOLDENRAIN TREE	1.5" CAL., B & B
	PV	Panicum virgatum 'Shenandoah'	SHENANDOAH SWITCHGRASS	1 GALLON CONT.
	QP	Quercus phellos	WILLOW OAK	2.5" CAL, B & B
	SS	Schizachyrium scoparium 'The Blues'	LITTLE BLUE STEM	1 GALLON CONTAINER

QUANTITY	SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE
23	AA	Aronia arbutifolia	CHOKEBERRY	18" HEIGHT, CONT.
2	AO	Acer rubrum 'October Glory'	OCTOBER GLORY RED MAPLE	3" CAL., B & E
3	AR	Acer rubrum 'Red Sunset'	RED SUNSET RED MAPLE	2.5" CAL., B & B
3	CC	Cercis canadensis 'Forest Pansy'	FOREST PANSY REDBUD	1.5" CAL., B & B
5	CV	Chionanthus virginicus	WHITE FRINGE TREE	1.5" CAL., B & B
19	IG	llex glabra	INKBERRY	18-24" HEIGHT, CONT.
7	IV	llex verticillata	SPARKLEBERRY	18-24" HEIGHT, CONT.
473	LC	Lobelia cardinalis	LOBELIA	1 QUART CONT., 18" O.C.
149	PV	Panicum virgatum 'Shenandoah'	SHENANDOAH SWITCHGRASS	1 GALLON CONT.

QUANTITY	SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE
24	AA	Aronia arbutifolia	CHOKEBERRY	18" HEIGHT, CONT.
1	AR	Acer rubrum 'Red Sunset'	RED SUNSET RED MAPLE	2.5" CAL., B & B
10	CV	Chionanthus virginicus	WHITE FRINGE TREE	1.5" CAL., B & B
47	IC	llex crenata 'Green Lustre'	GREEN LUSTER HOLLY	18-24" HEIGHT, CONT.
4	KP	Koelreuteria paniculata	GOLDENRAIN TREE	1.5" CAL, B & B
6	QP	Quercus phellos	WILLOW OAK	2.5" CAL, B & B

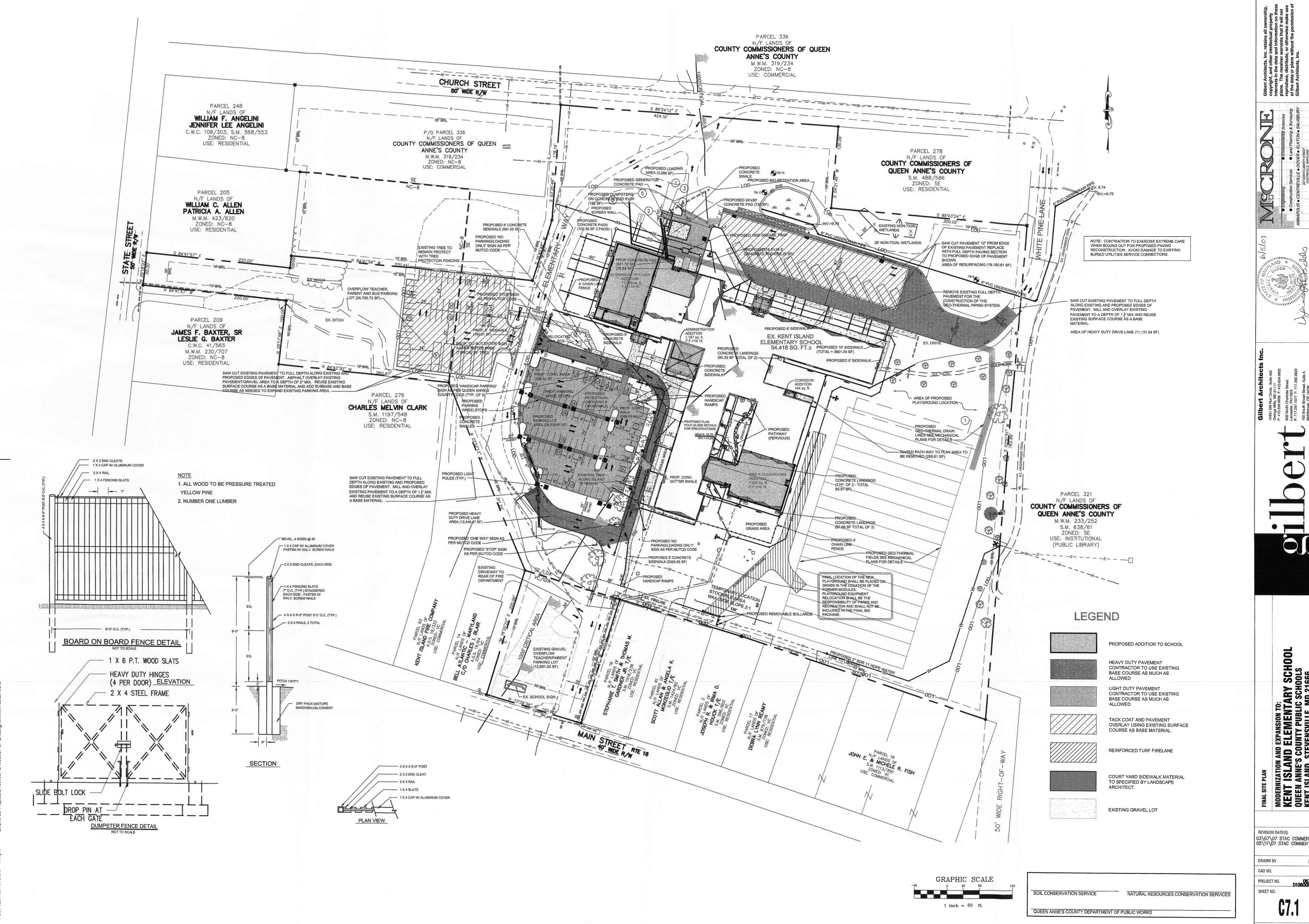
NOTE: SEE SHEET C1.1 FOR A DETAILED LEGEND PERTAINING TO THIS SET OF DRAWINGS.

SOIL CONSERVATION SERVICE	NATURAL RESOURCES CONSERVATION SERVICES

DRAWN BY CAD NO. PROJECT NO. SHEET NO. 6/14/2007

REVISION DATE(S)

03\07\07 STAC COMMENTS 05\11\07 STAC COMMENTS



MODER KENT QUEEN

03\07\07 STAC COMMENTS 05\11\07 STAC COMMENTS

6/14/2007

KENT ISLAND ELEMENTARY SCHOOL

4TH ELECTION DISTRICT, QUEEN ANNE'S COUNTY, MARYLAND TAX MAP #56, GRID #06, PARCEL #45 PREPARED FOR: QUEEN ANNE'S COUNTY BOARD OF EDUCATION

SITE CALCULATIONS

. NO EROSION HAZARDS AREAS EXIST ON SITE PER THE OCTOBER 2004 CRITICAL AREA ASSESSMEN

THERE ARE NO STREAMS NOR STREAM BUFFERS ON SITE

PPROVALS FOR THE RENOVATION AND EXPANSION OF THE KENT ISLAND ELEMENTARY

A PUBLIC SERVICE WAIVER HAS BEEN REQUESTED IN ACCORDANCE WITH CHAPTER 1

STORMWATER MANAGEMENT ANALYSIS

THE SITE CONSISTS OF 15.342 ACRES, MORE OR LESS, BETWEEN MAIN STREET (MD. RT. 18) ALONG ELEMENTARY WAY AND CHURCH STREET IN STEVENSVILLE. THIS SITE IS CURRENTLY THE KENT ISLAND ELEMENTARY SCHOOL AND IS CURRENTLY ACTIVE. THE EXISTING IMPERVIOUS AREA ONSITE IS 5.533 ACRES, MORE OR LESS. THE PROPOSED MODIFICATIONS TO THE SITE INCLUDES ADDITIONS TO THE MAIN SCHOOL, TOTAL RENOVATIONS TO THE EXISTING BUILDING, A RECONFIGURED PARKING LOT, UPGRADED PLAYGROUNDS AND A GEO-THERMAL WELL FIELD.

THE SITE CURRENTLY DRAINS IN THREE DIRECTIONS. THE FRONT OF THE SCHOOL (WEST SIDE OF SCHOOL) DRAINS SOUTH TO AN EXISTING DITCH WHICH RUNS ALONG ELEMENTARY WAY TOWARDS A CULVERT WHICH DRAINS UNDER ELEMENTARY WAY FROM THERE IT DRAINS SOUTH OFFSITE TOWARD MAIN STREET (MD. RT. 18) INTO A CLOSED SYSTEM. THE REAR OF THE SCHOOL (EAST SIDE) DRAINS EAST ACROSS THE OPEN FIELD INTO A SLIGHT SWALE WHICH RUNS SOUTHERLY AND EVENTUALLY DRAINS INTO COX CREÉK. LASTLY THE NORTHERN SECTION OF THE SCHOOL (THE BUS LOOP AREA) DRAINS EAST INTO A SMALL SWALE WHICH RUNS NORTH ALONG WHITE PINE LANE AND INTO A CULVERT WHICH IS LOCATED UNDER WHITE PINE LANE AND EVENTUALLY DISCHARGES

THE PROPOSED SCHOOL ADDITIONS AND RENOVATED PARKING LOT HAVE BEEN GRADED TO DRAIN PRIMARILY IN THE SAME DIRECTIONS AS THE EXISTING FLOW PATTERNS WITH THE EXCEPTION OF THE AREA NORTH EAST OF THE BUS LOOP. A BIO-RETENTION POND IS PROPOSED TO PROVIDE WATER QUALITY MANAGEMENT FOR 20 PERCENT OF THE EXISTING IMPERVIOUS AREA. THE BIO-RETENTION POND WILL EVENTUALLY DISCHARGE INTO THE EXISTING SWALE LOCATED ALONG WHITE PINE LANE THROUGH THE EXISTING CULVERT AND EVENTUALLY DISCHARGE INTO COX CREEK.

= 5 SPACES

= 7 SPACES

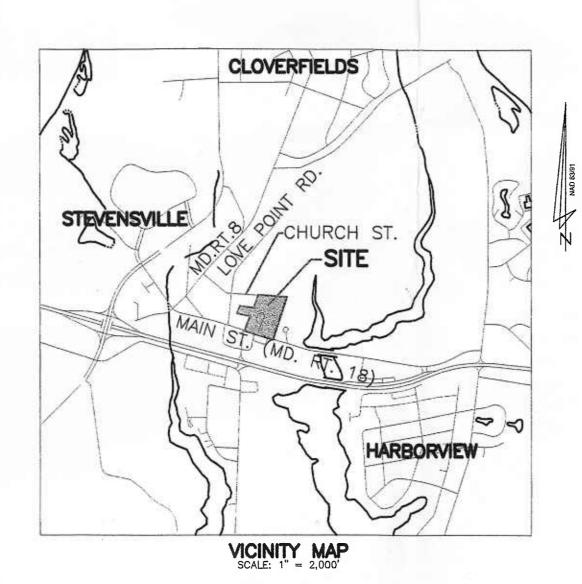
WOODLAND MITIGATION CALCULATIONS

TOTAL HANDICAP SPACES REQUIRED

TOTAL HANDICAP SPACES (CAR) PROVIDED

TOTAL HANDICAP SPACE (VAN) PROVIDED

AREA OF WOODLAND (EXISTING)	=	0.070 AC.
20% OF EXISTING FOREST	=	0.015 AC.
AREA OF WOODLAND TO BE CLEARED	=	0.000 AC.
AREA OF REQUIRED REFORESTATION AT 1:1	=	0.000 AC.
PARKING CALCULATIONS		
EXISTING SPACES	=	45 SPACE
TOTAL SPACES REQUIRED: 63 TEACHERS AND STAFF MEMBERS (1 SP PER STAFF)	=	63 SPACI
32 CLASSROOMS (1 SP PER EVERY 2 CLASSROOMS)	=	16 SPACE
TOTAL SPACES REQUIRED	=	79 SPACE
TOTAL SPACES PROVIDED	=	149 SPACE



	LEGEND
C1.1	COVER SHEET
C2.1	EXISTING CONDITIONS PLAN
C3.1	PRE-CONSTRUCTION PHASE PLAN
C4.1	
C5.1——	PHASE 2 DEMOLITION PLAN
C6.1	PHASE 3 DEMOLITION PLAN
C7.1	FINAL SITE PLAN
C8.1	FINAL GRADING PLAN
C9.1	
C10.1 ——	
C11.1	SEDIMENT DETAILS
C12.1 ——	—SITE DETAILS
C13.1	SITE DETAILS AND UTILITY PROFILES
C14.1 ——	—ROOF DRAIN PLAN
C15.1 ——	—BIO-RETENTION PLAN AND DETAILS
C16.1	—LANDSCAPE PLAN
C17.1	——SIMPLIFIED FOREST STAND DELINEATION PLAN
C18.1	

PLANNING DEPARTMENT CERTIFICATE

THIS IS TO CERTIFY THAT THIS SITE PLAN WAS APPROVED BY THE PLANNING COMMISSION OF QUEEN ANNE'S COUNTY ON THE ____DAY OF _____, 20____.

FRANK FROHN, CHAIRMAN OF PLANNING COMMISSION MASP # 04-07-02-0003-C

SITE TABULATIONS

	PARCEL 45 UPLAND				PARCEL 45 VC (UPLAND)		PARCEL 45 SE (UPLAND)		PARCEL 45 (SE) CRITICAL AREA (LDA)		PARCEL 45 (VC) CRITICAL AREA (IDA)		PARCEL 45 CRITICAL AREA TOTALS		PARCEL 45 TOTALS	
Gross Site Area =	255,348.7 sq. ft.	5.862 AC+/-	55,321.2 sq. ft.	1.27 AC+/-	7,971.5 sq. ft.	183 AC+/-	192,056.0 sq. ft.	4.409 AC+/-	350,994.6 sq. ft.	8.976 AC+/-	21,954.2 sq. ft.	.504 AC+/-	412,948.8 sq. ft.	9.48 AC+/-	668,297.5 sq. ft.	15.342 AC
Area within Bufferyards	358.9 sq. ft.	.008 AC+/-	000.0 sq. ft.	AC+/-	358.9 sq. ft.	.008 AC+/-	000.0 sq. ft.	.000 AC+/-	8,520.0 sg. ft.	.196 AC+/-	1,905.2 sq. ft.	.044 AC+/-	10,425.2 sq. ft.	239 AC+/-	10,784.1 sq. ft.	.248 AC
Area within 100-yr. Floodplain	000.0 sq. ft.	.000 AC+/-	000.0 sq. ft.	.000 AC+/-	000.0 sq. ft.	.000 AC+/-		.000 AC+/-		.000 AC+/-	000.0 sq. ft.	.000 AC+/-	000.0 sq. ft.	.000 AC+/-	000.0 sq. ft.	.000 A
Area within Forest	3,049.2 sq. ft.	.070 AC+/-	3,049.2 sq. ft.	.07 AC+/-	000.0 sq. ft.	.000 AC+/-		.000 AC+/-		.000 AC+/-	000.0 sq. ft.	.000 AC+/-	000.0 sq. ft.	.000 AC+/-		.070 A(
Required Forest Protection	1,829.5 sq. ft.	.042 AC+/-	1,829.5 sq. ft.	.042 AC+/-	000.0 sq. ft.	.000 AC+/-		.000 AC+/-		.000 AC+/-		.000 AC+/-	000.0 sq. ft.	.000 AC+/-		.042 AC
Total Resource Protection lands	2,188.4 sq. ft.	.05 AC+/-	1,829.5 sq. ft.	.042 AC+/-	358.9 sq. ft.	008 AC+/-		.000 AC+/-		.196 AC+/-		.044 AC+/-	10,425.2 sq. ft.	.240 AC+/-		.29 AC
Base Site Area	253,160.3 sq. ft.	5.812 AC+/-	53,491.7 sq. ft.	1.228 AC+/-	7,612.6 sq. ft.	.175 AC+/-	192,056.0 sq. ft.	4.409 AC+/-	382,474.6 sq. ft.	8.78 AC+/-	20,049.0 sq. ft.	.46 AC+/-	402,523.6 sq. ft.	9.24 AC+/-	655,683.9 sq. ft.	15.052 A
M	75.040.4	7 40-4														MAR.
Maximum Floor Area Allowed (0.3), (.1 SE)		1.759 AC+/-		.368 AC+/-	2,283.8 sq. ft.		19,205.6 sq. ft.	.441 AC+/-	38,247.5 sq. ft.	.878 AC+/-	6,014.7 sq. ft.	.138 AC+/-	44,262.2 sq. ft.		196,705.2 sq. ft.	4.516 A
Existing Floor Area	39,971.4 sq. ft.	918 AC+/-	000.0 sq. ft.	AC+/-	000.0 sq. ft.	AC+/-		918 AC+/-	14,500.5 sq. ft.	.333 AC+/-	000.0 sq. ft.	. AC+/-	14,500.5 sq. ft.	333 AC+/-	54,417.8 sq. ft.	1.249 A
Existing Floor Area to be Removed	000.0 sq. ft.	. AC+/-	000.0 sq. ft.	AC+/-	000.0 sq. ft.	AC+/-	000.0 sq. ft.	. AC+/-	000.0 sq. ft.	, AC+/-	000:0 sq. ft.	. AC+/-	000.0 sq. ft.	AC+/-	000.0 sq. ft.	Д
Proposed Floor Area	12,215.0 sq. ft.	.28 AC+/-	000.0 sq. ft.	AC+/-	000.0 sq. ft.	AC+/	12,215.0 sq. ft.	.28 A.C+/-	8,041.0 sq. ft.	185 AC+/-	000.0 sq. ft	. AC+/-	8,041.0 sq. ft.	.185 AC+/-	20,255.9 sq. ft.	.465 A
Total Proposed Floor Area	52,186.4 sq. ft.	1.198 AC+/-	000.0 sq. ft.	AC+/-	000.0 sq. ft.	AC+/-	52,186.4 sq. ft.	1.198 AC+/-	22,541.5 sq. ft.	.517 AC+/-	000.0 sq. ft.	AC+/-	22,541.5 sq. ft.	517 AC+/-	74,727.8 sq. ft.	1.716 A
													22,611.6 00. 10.		111,121,330,11	
Maximum Impervious Area Allowed (%)		As the restriction of the	50.00%		70.00%		30.00%		15.00%		70.00%					
Maximum Impervious Area Allowed	89,691.5 sq. ft.	2.059 AC+/-	26,745.8 sq. ft.	.614 AC+/-	5,328.8 sq. ft.	.122 AC+/-		1.323 AC+/-	58,649.2 sq. ft.	1.346 AC+/-		.322 AC+/-	72,683.5 sq. ft.	1.669 AC+/-	162,375.0 sq. ft.	3.728 A
Existing Impervious Area within Bufferyards	4,323.0 sq. ft.	.099 AC+/-	000.0 sq. ft.	AC+/-	000.0 sq. ft.	.099 AC+/-		.099 AC+/-		.026 AC+/-		.007.AC+/-		.033 AC+/-		.132 A
Existing Impervious Area on Site	108,835.6 sq. ft.	2.499 AC+/-	10,502.9 sq. ft.	.241 AC+/-	4,533.1 sq. ft.	104 AC+/-	93,799.6 sq. ft.		114,001.0 sq. ft.	2.617 AC+/-			132,161.1 sq. ft.		240,996.7 sq. ft.	5.533 A
Existing Impervious Area to be Removed	37,448.6 sq. ft.	.86 AC+/-	000.0 sq. ft.	AC+/-	5,591.2 sq. ft.		31,857.4 sq. ft.		36,023.7 sq. ft.	.827 AC+/-	4,910.0 sq. ft.	113 AC+/-			78,382.3 sq. ft.	1.799 A
Proposed Impervious Area on Site	28,518.3 sq. ft.	.655 AC+/-	000.0 sq. ft.		000.0 sq. ft.		28,518.3 sq. ft.		26,615.0 sq. ft.	.611.AC+/-			26,615.0 sq. ft.		55,133.3 sq. ft.	1.266 A
Total Proposed Impervious Area	99,905.3 sq. ft.	2.294 AC+/-	10,502.9 sq. ft.	241 AC+/-	-1,058.1 sq. ft.	024 AC+/-	90,460.5 sq. ft.	2.077 AC+/-	105,734.0 sq. ft.	2.427 AC+/-	13,250:1 sq. ft.	.304 AC+/-	118,984.1 sq. ft.	2.731 AC+/-	217,747.7 sq. ft.	4.999 A
Existing Landscape Area (TOTAL LOT						W.										
AREA MINUS EXIST, IMPERV.)	146513.1 sq. ft.	3.363 AC+/	44818.3 sq. ft.	1.029 AC+/-	3438.4 sq. ft.	.079 AC+/-	98256.4 sq. ft.	n age no.	270000 0	6250.40	27044 0	007.00	200707.7		107000.0	0.000
REQUIRED LANDSCAPE AREA	165657.3 sq. ft.	3.803 AC+/-	28575,4 sq. ft.	.656 AC+/-	2642.7 sq. ft.	.061 AC+/-			276993.6 sq. ft.	6.359 AC+/-	3794.1 sq. ft. 7919.9 sq. ft.		280787.7 sq. ft.		427300.8 sq. ft.	9.809 A
PROPOSED Landscape Area (TOTAL LOT					∠042.7 Sq. II.	.U01 AC+/-	134439.2 SQ. π.	J.U86 AU+/-	332345.4 sq. ft.	7.63 AC+/-	/919.9 sq. ft.	102 AU +/-	340265.3 sq. ft.	7.811 AU+/-	505922.6 sq. ft.	11.614 A
AREA MINUS PROP. IMPERV.)	155443.4 sq. ft.	3.568 AC+/-	44818.3 sq. ft.	1.029 AC+/-	9029.6 sq. ft.	.207 AC+/-	101595.5 sq. ft.	2.332 AC+/-	285260.5 sq. ft.	6.549 AC+/-	8704.1 sq. ft.	2 AC+/-	293964.7 sq. ft.	6.749 AC+/-	450549.8 sq. ft.	10.343 A

GENERAL NOTES

PROPERTY LOCATED ON TAX MAP 56, GRID	06 , PAF	RCEL	45
GROSS AREA OF SITE:	=	15.043	AC.±
BASE SITE AREA IN CRITICAL AREA:	=	9.240	AC.± (IN CA)
BASE SITE AREA IN SE:	=	13.189	AC.± (ZONE SE)
BASE SITE AREA IN NC-8:	=	1.228	AC.± (ZONE NC-8)
BASE SITE AREA IN VC;	=	0.635	AC.± (ZONE VC)
AREA WITHIN 100 Yr. TIDAL FLOODPLAIN:	=	0.000	AC.±
MAXIMUM BUILDING HEIGHT:	=	30'-0"	
PROPOSED BUILDING HEIGHT:	=	32'-6"	

FOR DEED REFERENCE SEE TSP/21/354

202 CHESTERFIELD AVENU

6. THE PROPERTY IS PARTIALLY LOCATED WITHIN THE CHESAPEAKE BAY CRITICAL AREA

USE DESIGNATIONS OF IDA AND LDA. 7. PRIOR TO REQUESTING A CERTIFICATION OF OCCUPANCY, NOTIFY THE QUEEN ANNE'S COUNTY PLANNING OFFICE (410-758-1255), FOREST CONSERVATION COORDINATOR, TO

DETERMINE PROTECTIVE DEVICE REMOVAL. FENCING SHALL REMAIN IN PLACE UNTIL DISTURBED AREAS ARE PERMANENTLY STABILIZED. SIGNAGE AND OTHER PERMANENT PROTECTIVE DEVICES ARE TO REMAIN IN PERPETUITY. 8. THE QUEEN ANNE'S COUNTY OFFICE OF PLANNING AND ZONING RESERVES THE RIGHT TO INSPECT THE FOREST CONSERVATION AREA(S) AT ANY FUTURE DATE, WITH

PRE-NOTIFICATION OF THE PROPERTY OWNER OR THEIR REPRESENTATIVE, AND TO ENFORCE THE PROVISIONS OF THE PLANTING AGREEMENT AND/OR THE LONG TERM PROTECTIVE DEED OF FOREST CONSERVATION EASEMENT AT ANY TIME.

9. THE PROPERTY SHOWN HEREON LIES WITHIN FLOOD HAZARD ZONE C AS SHOWN ON FLOOD INSURANCE RATE MAP COMMUNITY PANEL No. 24 0054 0038 C

10. APPROVALS REQUIRED AND COUNTY AGENCY LISTINGS -MARYLAND DEPARTMENT OF ENVIRONMENT - 410-901-4020 QUEEN ANNE'S COUNTY DEPARTMENT OF PUBLIC WORKS - 410-758-0920

U.S.D.A. NATURAL RESOURCES CONSERVATION SERVICE (SCD) - 410-758-1671 DELMARVA POWER - 1-800-375-7117 MISS UTILITY - 1-800-441-8355

VERIZON - 410-778-8010 MSHA - 410-758-0700 QUEEN ANNE'S COUNTY SANITARY DISTIRCT - 410-643-3535

11. PERIMETER BOUNDARY INFORMATION SHOWN HEREON IS FROM BOUNDARY SURVEY OF PART OF AN ADMINISTRATIVE SUBDIVISION PLAT DATED JANUARY 23, 2006 RECORDED IN THE LAND RECORDS OF QUEEN ANNE'S COUNTY IN PLAT BOOK LIBER SM 37, FOLIO 31B PREPARED BY MCCRONE INC..

12. CONTOURS SHOWN HEREON ARE BASED ON A FIELD SURVEY AUG. 2006 AND SEPT. 2006 BY MCCRONE INC. 13. TIDAL/NONTIDAL WETLANDS SHOWN HEREON WERE FIELD DELINEATED BY ENVIRONMENTAL

REGULATIONS CONSULTANT ON NOVEMBER 1, 2006 AND FIELD LOCATED BY McCRONE, INC.NOV. 15, 2006. 14. WOODLANDS SHOWN HEREON ARE TAKEN FROM A FIELD SURVEY SEPT. 2006 BY MCCRONE INC.

15. SOILS SHOWN HEREON ARE TAKEN FROM SOIL SURVEY MAP No. 56 OF QUEEN ANNE'S COUNTY. SOILS: Ot - Othelio Sitt Loam, 0-2% slopes MtA - Mattapex-Butlertown silt. 0-2% slopes

UsC - Unicorn-Sassafras loams, 2-10% slopes 16. VOLUME REPORT CUT ~ 1,000 cubic yards 2,000 cubic yards DIFFERENCE ~ 1,000 cubic yards (FILL OR CUT) (ESTIMATE FOR BONDING PURPOSES ONLY)

17. TOTAL AREA TO BE DISTURBED FOR NOI PURPOSES

~ 10.19 AC.± 18. ONCE CONSTRUCTION IS COMPLETE, AS-BUILT CERTIFICATION SHALL BE SUBMITTED BY EITHER A PROFESSIONAL ENGINEER OR PROFESSIONAL LAND SURVEYOR LICENSED IN THE STATE OF MARYLAND TO ENSURE THAT ALL CONSTRUCTION IS IN COMPLIANCE

WITH THE SPECIFICATIONS CONTAINED AND APPROVED PLANS.

19. THE DEVELOPER SHALL COORDINATE WITH THE COUNTY TO SCHEDULE INSTALLATION OF ALL NECESSARY ROADWAY SAFETY SIGNAGE AND ROAD NAME BLADES. SIGNAGE SHALL BE INSTALLED AT THE START OF CONSTRUCTION AND MAINTAINED BY THE COUNTY THROUGHOUT THE COMPLETION OF THE WORK AT THE EXPENSE OF THE

20. TRENCHES SHALL NOT REMAIN OPEN OVER NIGHT. IF IT IS NECESSARY FOR THE TRENCHES TO REMAIN OPEN, STEEL PLATES, CAPABLE OF BEARING TRAFFIC, SHALL BE USED TO COMPLETELY COVER THE TRENCH.

21. A MINIMUM OF ONE-WAY TRAFFIC SHALL BE MAINTAINED DURING HOURS OF

CONSTRUCTION AND TWO-WAY TRAFFIC AT ALL OTHER TIMES. CONSTRUCTION SHALL NOT IMPEDE DROP OFF OR PICK-UP TIMES FOR STUDENTS. 22. INFORMATION PROVIDED IN THESE DRAWINGS IS BASED ON BEST AVAILABLE AS-BUILT

INFORMATION. NO GUARANTEE TO THE ACCURACY OF THE LOCATION (HORIZONTAL OR VERTICAL) IS MADE BY THE ENGINEER. CONTRACTOR TO FIELD VERIFY AND TEST PIT AS NEEDED TO VERIFY THE LOCATION OF THE EXISTING GAS, ELECTRIC, FIBER OPTIC AND TELEPHONE LINES. THIS SHALL BE DONE AS PART OF THE CONTRACT FOR THE WORK SHOWN IN THE DRAWINGS. TEST PITTING IS REQUIRED AT ALL POTENTIAL WATER AND SEWER

23. CONTRACTOR SHALL SCHEDULE A PRE-CONSTRUCTION MEETING WITH QUEEN ANNE'S COUNTY ENGINEERS AND OTHER INVOLVED PARTIES AT LEAST TWO (2) WEEKS BEFORE CONSTRUCTION.

25: THIS SITE IS SERVED BY PUBLIC WATER AND PUBLIC SEWER.

SEE ADDITIONAL SPECIFICATIONS PREPARED JANUARY, 1998, EDITION OF, "SPECIFICATIONS FOR CONSTRUCTION OF SEWER COLLECTION, SEWER TRANSMISSION AND WATER DISTRIBUTION LINES", ON FILE WITH THE QUEEN ANNE'S COUNTY SANITARY DISTRICT. IN ADDITION, ALL HARDWARE (I.E. NUTS. BOLTS, WASHERS, RESTRAINING RODS, ETC.) SHALL BE 304 STAINLESS STEEL. CONTRACTOR IS TO REPLACE ANY PLAIN OR GALVANIZED STEEL HARDWARE SUPPLIED BY THE MANUFACTURER, INCLUDING BONNET BOLTS ON DIVISION 26. VALVE, WITH STAINLESS STEEL.

27. ALL VALVE BOXES AND VACUUM PITS SHALL BE SET AND ADJUSTED TO GRADE. ALL PVC, PE AND HDPE PIPE. OTHER THAN PIPE RUNS BETWEEN GRAVITY SEWER MANHOLES, SHALL HAVE A CONTINUOUS SINGLE STRAND, 8-GUAGE UNCOATED COPPER TRACER WIRE LOCATED BENEATH THE PIPE. THE WIRE SHALL BE STUBBED INTO ALL

29. ALL CONSTRUCTION SHALL BE MARKED FOR THE TRAFFIC AND PEDESTRIAN SAFETY. IN ORDER TO AVOID IMPACTS TO THE LEAST TERN COLONY, WE RECOMMEND THAT NO

28. METER PITS, VACUUM VALVE PITS, CLEANOUTS, AND DIVISION VALVE BOXES.

CONSTRUCTION OCCUR ON THE SITE DURING THE BREEDING SEASON. THE BREEDING SEASON FOR LEAST TERNS IS GENERALLY APRIL 15 THROUGH JULY 31 OF ANY GIVEN YEAR. DURING THE BREEDING SEASON, ALL HUMAN ENTRY ONTO THE ROOFTOP SHOULD BE RESTRICTED TO ONLY THAT ESSENTIAL FOR PROTECTION OF THE COLONY. HUMAN DISTURBANCE OF COLONY SITES THAT RESULTS IN SIGNIFICANT MORTALITY OF EGGS AND/OR CHICKS IS CONSIDERED A PROHIBITED TAKING UNDER VARIOUS STATE AND FEDERAL REGULATIONS.

	LEGEND	
	EXISTING	PROPOSED
PROPERTY LINE		
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ZONING LINE		NC-8 SE
1000' CRITICAL AREA LINE		
SETBACK LINE	scales make calcul union spice along states state make about species	
DRAINAGE SWALE		
DRAINAGE SWALE (RELOCATED)		
R.O.W. LINE	·	<u> </u>
TY CORNER (TYPE NOT SPECIFIED)		
IRON ROD FOUND CAPPED PIN FOUND	IRF ⊙ CPF ●	IRS ⊙ CPS ●
		CMS
CONCRETE MONUMENT FOUND	CMF	
IRON PIPE FOUND	IPF ●	iPS ●
SPOT ELEV. LABEL	× 100.01	× ^{100.01}
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BUILDING SOLID FILL		
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SIGN	0	
SOIL BORING	•	*
FLAG POLE	~0	
EDGE OF MARSH/WETLAND	W	\/
WETLAND HATCH	* * * * * * *	* * * * * * *
WETLAND BUFFER	///	/H COMMISSION
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SANITARY MANHOLE (

SANITARY CLEANOUT O C/C

FORCE MAIN

WATER MANHOLE

WATER VALVE

WATER METER

FIRE HYDRANT

WELL

UTILITY POLE CO

SILT FENCE

OVERHEAD ELECTRIC

WATER WITNESS POST

ROCK OUTLET PROTECTION

STANDARD INLET PROTECTION

AT GRADE INLET PROTECTION

STABILIZED CONSTRUCTION ENTRANCE

CURB INLET PROTECTION

LIMIT OF DISTURBANCE

McCRONE, INC.

207 N. LIBERTY STREET

PHONE: (410) 758-2237

SOIL CONSERVATION SERVICE

ENGINEER/SURVEY

CENTREVILLE, MARYLAND 21617

QUEEN ANNE'S COUNTY DEPARTMENT OF PUBLIC WORKS

SEPTIC SYSTEM HATCH

-----FM------

L _ _ _

OWNER/DEVELOPER

202 CHESTERFIELD AVENUE

NATURAL RESOURCES CONSERVATION SERVICES

CENTREVILLE, MARYLAND 21617

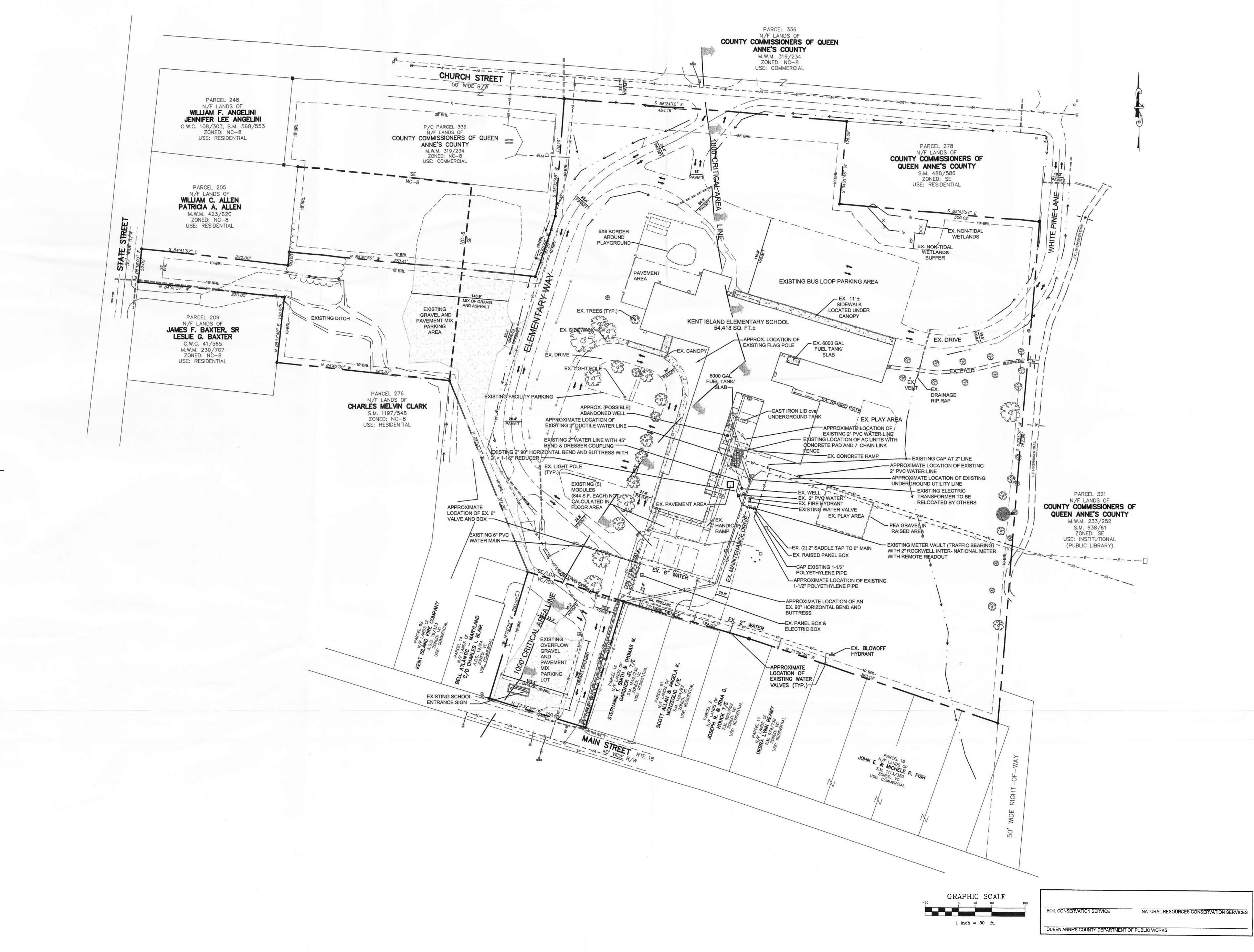
QUEEN ANNE'S COUNTY

BOARD OF EDUCATION

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REVISION DATE(S) 03\07\07 STAC COMMENTS 05\11\07 STAC COMMENTS

DRAWN BY CAD NO. PROJECT NO.



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Construction Services
 Construction

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10451 Mill Run Circle , Suite 400
Owings Mills, MD 21117
P: 410.356.8856 F: 410.654.8802
626 North Charlotte Street
Lancaster, PA17603
P: 717.291.1077 F: 717.392.3923
Middletown, DE 19709

MODERNIZATION AND EXPANSION TO:
KENT ISLAND ELEMENTARY SCHOOL
QUEEN ANNE'S COUNTY PUBLIC SCHOOLS
KENT ISLAND, STEVENSVILLE, MD 21666

REVISION DATE(S)
03\07\07 STAC COMMENTS
05\11\07 STAC COMMENTS

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ATE 6/14/2007