

ABBREVIATIONS	
ABBR.	DESCRIPTION
Ac.	ACRE
AASHTO	AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS
c.c.	CENTER TO CENTER
CONC.	CONCRETE
DEG.	DEGREE
DIA.	DIAMETER
E	EASTERLY
ELEV.	ELEVATION
FL	FOOT
GS	GRAB SAMPLE
GA.	GAUGE
HC	HANDICAP
In.	INCH
Lb.	POUND
MAX.	MAXIMUM
MIN.	MINIMUM
MLW	MEAN LOW WATER
N	NORTHERLY
N/A	NOT APPLICABLE
N.I.C.	NOT IN CONTRACT
o.c.	ON CENTER
PSI	POUND PER SQUARE INCH
SF	SQUARE FEET
STD.	STANDARD
TYP.	TYPICAL

#### GENERAL NOTES

- VERTICAL DATUM IS MLW, BASED ON AN OPUS SOLUTION PREPARED BY NGS AND CONVERTED TO MLW BASED ON A VDUTUM SOLUTION. HORIZONTAL DATUM IS NAD83 DELAWARE STATE PLANE.
- TOPOGRAPHIC SURVEY BY DAVIS, BOWEN & FRIEDEL, INC. ON FEBRUARY 22, 2017.
- ACCORDING TO THE FLOOD INSURANCE RATE MAP (FIRM), MAP #10005C0484K, PANEL 484 OF 660, DATED MARCH 16, 2015, THE SITE IS LOCATED IN ZONE "AE" (100 YEAR FLOOD ELEVATION 7 & 8) NAVD 88 DATUM. THE PROPERTY IS WITHIN THE 100 YEAR FLOOD PLAIN.
- IT SHALL BE DISTINCTLY UNDERSTOOD THAT FAILURE TO MENTION SPECIFICALLY ANY WORK WHICH WOULD NATURALLY BE REQUIRED TO COMPLETE THE PROJECT SHALL NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY TO COMPLETE SUCH WORK.
- THE CONTRACTOR SHALL ASSUME ALL RESPONSIBILITY FOR ANY DEVIATION FROM THESE PLANS UNLESS WRITTEN APPROVAL HAS BEEN PROVIDED BY THE ENGINEER.
- THE CONTRACTOR SHALL PROVIDE ENERGY STAR APPLIANCES, EQUIPMENT, SYSTEMS, ETC. TO THE MAXIMUM EXTENT POSSIBLE ACCORDING TO DELAWARE CODE, TITLE 29, CHAPTER 69, SECTION 6939.
- WETLAND DELINEATION WAS PERFORMED BY ED LAUNY WITH ENVIRONMENTAL RESOURCES, INC. ON JUNE 2017.
- CONTRACTOR SHALL PROVIDE STAKEOUT NECESSARY FOR THE INSTALLATION OF UTILITIES, STORM DRAINS, PAVING AND ALL OTHER SITE WORK INCLUDED IN THESE PLANS. ALL STAKEOUT WORK IS TO BE PERFORMED UNDER THE DIRECT SUPERVISION OF A PROFESSIONAL LAND SURVEYOR REGISTERED IN THE STATE OF DELAWARE.
- BOAT RAMP TO REMAIN OPEN DURING CONSTRUCTION OF PROPOSED PARKING LOT. CONTRACTOR TO PROVIDE UNIMPEDED ACCESS AT ALL TIMES.
- THE CONTRACTOR SHALL NOTIFY THE FOLLOWING TWO (2) WEEKS PRIOR TO THE START OF CONSTRUCTION AND SHALL APPRISE AND COORDINATE DURING ALL PHASES OF CONSTRUCTION:  
ANDREWS, MILLER & ASSOCIATES ATTN: KEN EATON 410-770-4744  
DNREC, SEDIMENT & STORMWATER PROGRAM 302-739-9921  
DNREC, PROJECT MANAGER - JULIO SENEUS 302-739-9211
- SEE GENERAL CONSTRUCTION NOTE, SHEET ES-101.

#### DEMOLITION AND SAFETY GENERAL NOTES

- MISS UTILITY OF DELMARVA SHALL BE NOTIFIED THREE CONSECUTIVE WORKING DAYS PRIOR TO EXCAVATION, AT 1-800-282-8555.
- EXISTING UTILITIES ARE SHOWN IN ACCORDANCE WITH THE BEST AVAILABLE INFORMATION. COMPLETENESS OR CORRECTNESS THEREOF IS NOT GUARANTEED. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE UTILITY COMPANIES INVOLVED IN ORDER TO SECURE THE MOST ACCURATE INFORMATION AVAILABLE AS TO UTILITY LOCATION AND ELEVATION. NO CONSTRUCTION AROUND OR ADJACENT TO UTILITIES SHALL BEGIN WITHOUT NOTIFYING THEIR OWNERS AT LEAST 48 HOURS IN ADVANCE. THE CONTRACTOR SHALL TAKE THE NECESSARY PRECAUTIONS TO PROTECT THE EXISTING UTILITIES AND MAINTAIN UNINTERRUPTED SERVICE AND ANY DAMAGE DONE TO THEM DUE TO HIS/HER NEGLIGENCE SHALL BE IMMEDIATELY AND COMPLETELY REPAIRED AT THE CONTRACTOR'S EXPENSE. TO LOCATE EXISTING UTILITIES IN THE FIELD PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL CONTACT MISS UTILITY OF DELMARVA.
- THE CONTRACTOR SHALL REMOVE AND IMMEDIATELY REPLACE, RELOCATE, RESET OR RECONSTRUCT ALL OBSTRUCTIONS IN THE ROAD WAY, INCLUDING, BUT NOT LIMITED TO, MAILBOXES, SIGNS, LANDSCAPING, LIGHTING, PLANTERS, CULVERTS, DRIVEWAYS, PARKING AREAS, CURBS, GUTTERS, FENCES, OR OTHER NATURAL OR MAN-MADE OBSTRUCTIONS. TRAFFIC CONTROL, REGULATORY, WARNING AND INFORMATIONAL SIGNS SHALL REMAIN FUNCTIONAL AND VISIBLE TO THE APPROPRIATE LANES OF TRAFFIC AT ALL TIMES, WITH THEIR RELOCATION KEPT TO A MINIMUM DISTANCE. THE COST SHALL BE INCLUDED IN THE COST OF ITEMS BID.
- THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE LAWS, ORDINANCES, RULES, REGULATIONS AND ORDERS OF ANY PUBLIC BODY HAVING JURISDICTION. THE CONTRACTOR SHALL ERECT AND MAINTAIN, AS REQUIRED BY THE CONDITIONS AND PROGRESS OF THE WORK, ALL NECESSARY SAFEGUARDS FOR SAFETY AND PROTECTION.
- DELAWARE REGULATIONS PROHIBIT THE BURIAL OF CONSTRUCTION DEMOLITION DEBRIS, INCLUDING TREES AND STUMPS ON CONSTRUCTION SITES. ANY SOLID WASTE FOUND DURING THE EXCAVATION FOR STRUCTURES AND UTILITY LINES ON AND OFF SITE MUST BE REMOVED AND PROPERLY DISCARDED. ANY REMEDIAL ACTION REQUIRED IS THE RESPONSIBILITY OF THE CONTRACTOR TO PERFORM. ADDITIONAL COSTS WILL BE NEGOTIATED WITH THE OWNER.
- DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY. ALL WORK MUST BE DONE IN COMPLIANCE WITH THE OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970, AS AMENDED AND ALL RULES AND REGULATIONS THERETO APPURTENANT.

#### INTERNAL PAVING / CONCRETE NOTES

- WARM MIX ASPHALT SHALL BE INSTALLED IN ACCORDANCE WITH THE 2001 DELDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION INCLUDING SPECIAL PROVISIONS:  
1.1. SECTION 401 FOR PLACEMENT OF TACK COAT AND WARM MIX.  
1.2. ASPHALT SHALL BE FROM A DELDOT APPROVED PLANT.  
1.3. WARM MIX SHALL NOT BE APPLIED WHEN THE TEMPERATURE IS BELOW 40° F OR ON ANY WET OR FROZEN SURFACE.
- ALL DISTURBED AREAS NOT COVERED WITH IMPERVIOUS MATERIAL, SHALL BE TOPSOILED (6" MINIMUM), FERTILIZED, SEEDED AND MULCHED.
- ALL SIGNING AND MAINTENANCE OF TRAFFIC IS THE CONTRACTOR'S RESPONSIBILITY AND SHALL FOLLOW THE 2011 DELAWARE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (LATEST EDITION).
- DESIGN, FABRICATION, AND INSTALLATION OF ALL PERMANENT SIGNING SHALL BE AS OUTLINED IN THE 2011 DELAWARE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (LATEST EDITION).
- FOR FINAL PERMANENT PAVEMENT MARKINGS, EPOXY RESIN PAINT SHALL BE REQUIRED FOR LONG LINE STRIPING AND THERMO WILL BE REQUIRED FOR SHORT LINE STRIPING, i.e. SYMBOLS/LEGENDS.
- ALL TRAFFIC CONTROL DEVICES SHALL BE IN NEW OR REFURBISHED CONDITION, SHALL COMPLY WITH THE 2011 DELAWARE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (LATEST EDITION), AND SHALL BE IN RPP - 350 APPROVED AND SHALL BE APPROVED BY THE ENGINEER PRIOR TO INSTALLATION. TRAFFIC CONTROL DEVICES SHALL BE MAINTAINED IN GOOD CONDITION FOR DURATION OF USE.
- BREAKAWAY POSTS SHALL BE USED WHEN INSTALLING ALL SIGNS. DETAIL CAN BE FOUND IN DELDOT'S STANDARD CONSTRUCTION DETAILS.
- PLAN LOCATION AND DIMENSIONS SHALL BE STRICTLY ADHERED TO UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT PAVING IS INSTALLED TO THE ELEVATIONS SHOWN AND THAT NO PONDING OF WATER EXISTS AFTER PAVING IS COMPLETE. PONDING IS DEFINED AS WATER STANDING IN AN AREA MORE THAN 1 HOUR AFTER A RAINFALL EVENT THAT PRODUCES RUNOFF. ELIMINATION OF PONDING WILL BE COMPLETED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.
- SUPERPAVE HOT-MIX SHALL BE USED IN ACCORDANCE WITH DELDOT SPECIAL PROVISIONS.
- CONCRETE SHALL BE PLACED IN ACCORDANCE WITH DELDOT STANDARD SPECIFICATIONS.

#### DRAINAGE GENERAL NOTES

- ALL STORM DRAIN PIPING, INLET, MANHOLE, AND END SECTION INSTALLATION SHALL BE IN ACCORDANCE WITH SUSSEX COUNTY CONSTRUCTION STANDARDS.
- ALL STORM DRAIN DESIGNATED AS RCP IS TO BE REINFORCED CONCRETE PIPE, MEETING AASHTO M 170 SPECIFICATIONS, STORM DRAIN SEE PIPE SCHEDULE FOR PIPE CLASSIFICATION.
- PIPE SPAN LENGTHS ARE MEASURED FROM C/L OF STRUCTURE TO C/L OF STRUCTURE, WHERE APPLICABLE ARE ROUNDED TO THE NEAREST FOOT.
- ALL SEALS MUST BE WATERTIGHT WITH NON SHRINK GROUT OR RUBBER GASKETS AND CONCRETE STRUCTURES MUST BE PRECAST OR POURED IN PLACE.
- CORRUGATED POLYETHYLENE PIPE SHALL BE INSTALLED IN ACCORDANCE WITH DELDOT SPECIAL PROVISIONS 6125XX.

# PROPOSED BOAT RAMP PARKING

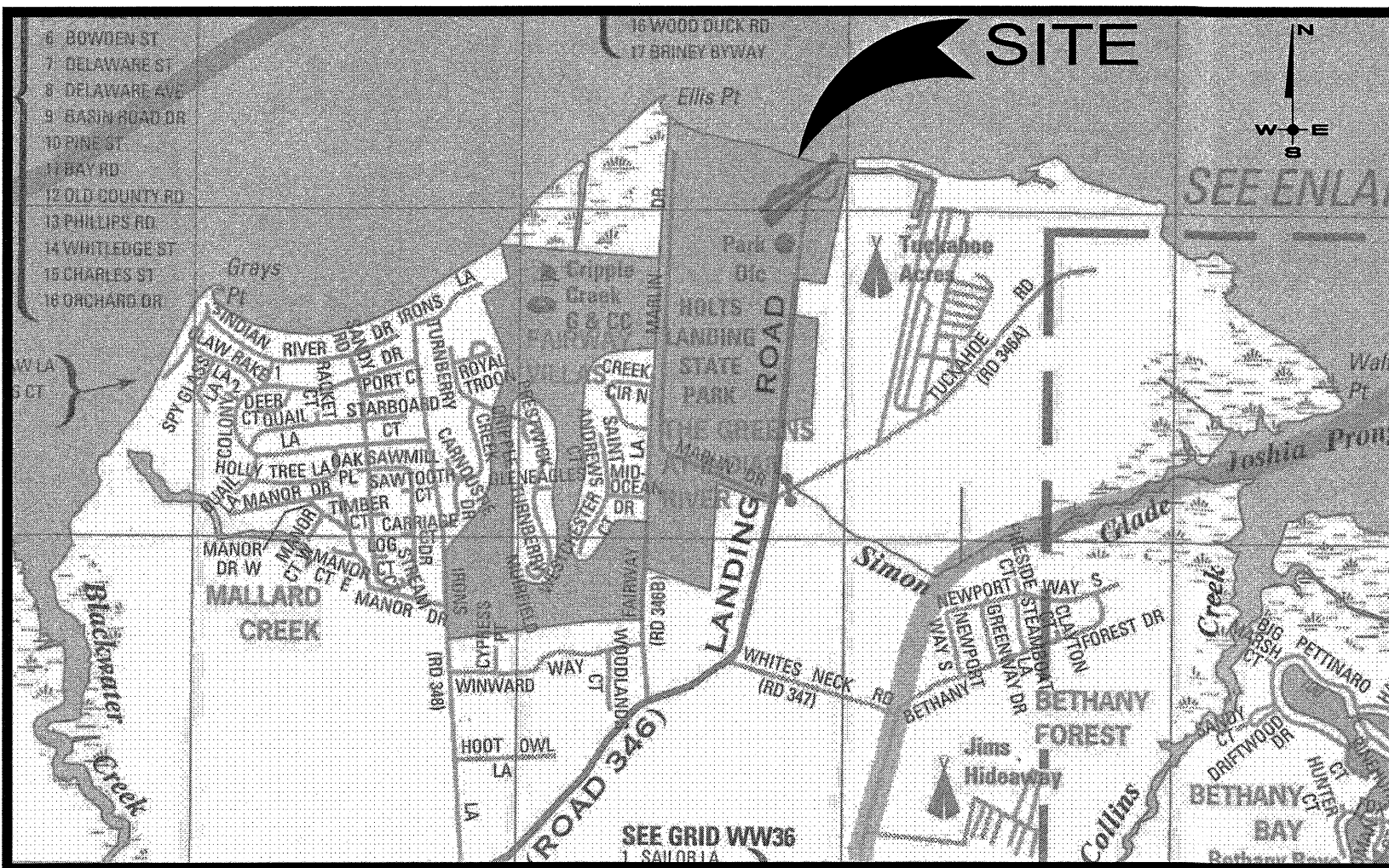
AT

## HOLTS LANDING STATE PARK

Department of Natural Resources and Environmental Control

Division of Parks and Recreation

DNREC Contract No. \_\_\_\_\_  
DNREC Project: \_\_\_\_\_



#### VICINITY MAP

SCALE : 1" = 2500'

#### SITE DATA

TAX MAP ID: 134-4.00-1.00  
ACRES: 85.00  
ZONING: ST  
VERTICAL DATUM: MLW  
HORIZONTAL DATUM: NAD83/STATE PLANE  
SITE BENCHMARKS: PK NAIL FOUND - ELEV. 5.62' MLW  
IRON ROD W/ CAP SET - ELEV. 6.49' MLW

PROPERTY OWNERS:  
STATE OF DELAWARE  
P.O. BOX 778  
DOVER, DE 19903

ENGINEER:  
ANDREWS, MILLER & ASSOCIATES  
A DIVISION OF DAVIS, BOWEN & FRIEDEL, INC.  
ATTN: KEN EATON  
106 N. WASHINGTON STREET, SUITE 103  
EASTON, MD 21601  
PHONE: 410-770-4744  
FAX: 410-770-4515

PROPERTY ADDRESS:  
HOLTS LANDING ROAD (RD 346)  
MILLVILLE, DE 19867

DNREC PROJECT MANAGER:  
JULIO SENEUS  
OFFICE OF DESIGN & DEVELOPMENT  
DIVISION OF PARKS & RECREATION  
89 KINGS HIGHWAY  
DOVER, DE 19901  
PHONE: 302-739-9211



Andrews, Miller & Associates

A Division of:



DAVIS,  
BOWEN &  
FRIEDEL, INC.

ARCHITECTS ENGINEERS SURVEYORS

EASTON, MARYLAND (410) 770-4744  
SALISBURY, MARYLAND (410) 643-9091  
MILFORD, DELAWARE (302) 424-1441

A.M.A. JOB NO. 1945C003.A01

SEPTEMBER 2017

ITEM	LEGEND	
	EXISTING	PROPOSED
PROPERTY OR RIGHT-OF-WAY LINE	---	N/A
BENCH MARK		N/A
TRAVERSE POINT		N/A
CONTOUR	--- 7 ---	7
ELEVATION SPOT SHOT	X 4.00	7.50
WETLAND DELINEATION LINE	WDL	N/A
WETLAND		N/A
FLOOD PLAIN ZONE		N/A
TREELINE		N/A
IMPERVIOUS SURFACES:		
BITUMINOUS SURFACE		
MILL & OVERLAY		
CONCRETE SURFACE		N/A
CENTERLINE SWALE		N/A
TOP OF BANK	---	N/A
CULVERT	12" CMP	
STEEL BOLLARD	o	
STEEL BOLLARD W/ SIGN	N/A	
LIGHT POLE		
UTILITY POLE		N/A
ELECTRIC METER		N/A
SIGN		
PAVEMENT MARKINGS	N/A	
CONCRETE BUMPER		
SOILS BOUNDARY		N/A
SOILS DESIGNATION	KsA 800 A/D	N/A
LIMIT OF DISTURBANCE	N/A	LOD
SILT FENCE	---	SF
SOIL STOCKPILE	---	SP
STABILIZED CONSTRUCTION ENTRANCE		
CULVERT INLET PROTECTION		

#### CERTIFICATION OF OWNERSHIP

I, CINDY A. TODD, HEREBY CERTIFY THAT THE STATE OF DELAWARE IS THE OWNER OF THE PROPERTY WHICH IS SUBJECT OF THIS PLAN AND THAT THE LAND USE ACTION PROPOSED BY THIS PLAN IS MADE AT MY DIRECTION.

CINDY A. TODD  
DEPARTMENT OF NATURAL RESOURCES  
AND ENVIRONMENTAL CONTROL  
DIVISION OF PARKS AND RECREATION

DATE

#### OWNER'S CERTIFICATION

I, THE UNDERSIGNED, CERTIFY THAT ALL LAND CLEARING, CONSTRUCTION, AND DEVELOPMENT SHALL BE DONE PURSUANT TO THE APPROVED PLAN AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE LAND DISTURBANCE WILL HAVE A CERTIFICATION OF TRAINING AT A DEPARTMENTAL SPONSORED OR APPROVED TRAINING PROGRAM FOR THE CONTROL OF EROSION AND SEDIMENT CONTROL BEFORE INITIATION OF THE PROJECT. I ALSO HEREBY GIVE THE RIGHT OF THE DNREC OR DELEGATED INSPECTION AGENCY TO CONDUCT ON-SITE INSPECTIONS

CINDY A. TODD  
DEPARTMENT OF NATURAL RESOURCES  
AND ENVIRONMENTAL CONTROL  
DIVISION OF PARKS AND RECREATION  
89 KINGS HIGHWAY  
DOVER, DELAWARE 19901

DATE

#### CERTIFICATION OF PLAN ACCURACY

I, JASON P. LOAR, P.E., HEREBY CERTIFY THAT I AM A PROFESSIONAL ENGINEER WITH A BACKGROUND IN CIVIL ENGINEERING IN THE STATE OF DELAWARE, AND THAT THE PLAN SHOWN AND DESCRIBED HEREON, IS TRUE AND CORRECT TO THE ACCURACY REQUIRED BY ACCEPTED SURVEYING STANDARDS AND PRACTICES.

JASON P. LOAR, P.E. #14959

DATE

#### DESIGNER CERTIFICATION

I HEREBY CERTIFY THAT TO THE BEST OF MY KNOWLEDGE, INFORMATION, AND BELIEF, THIS PLAN HAS BEEN DESIGNED IN ACCORDANCE WITH THE CURRENT DELAWARE EROSION AND SEDIMENT CONTROL HANDBOOK AND THE DELAWARE SEDIMENTATION AND WATER REGULATIONS.

SIGNATURE  
JASON P. LOAR

DATE

14959  
DELAWARE REG. NO.

95% CD SUBMITTAL

Draw No:

C-100

1 of 5







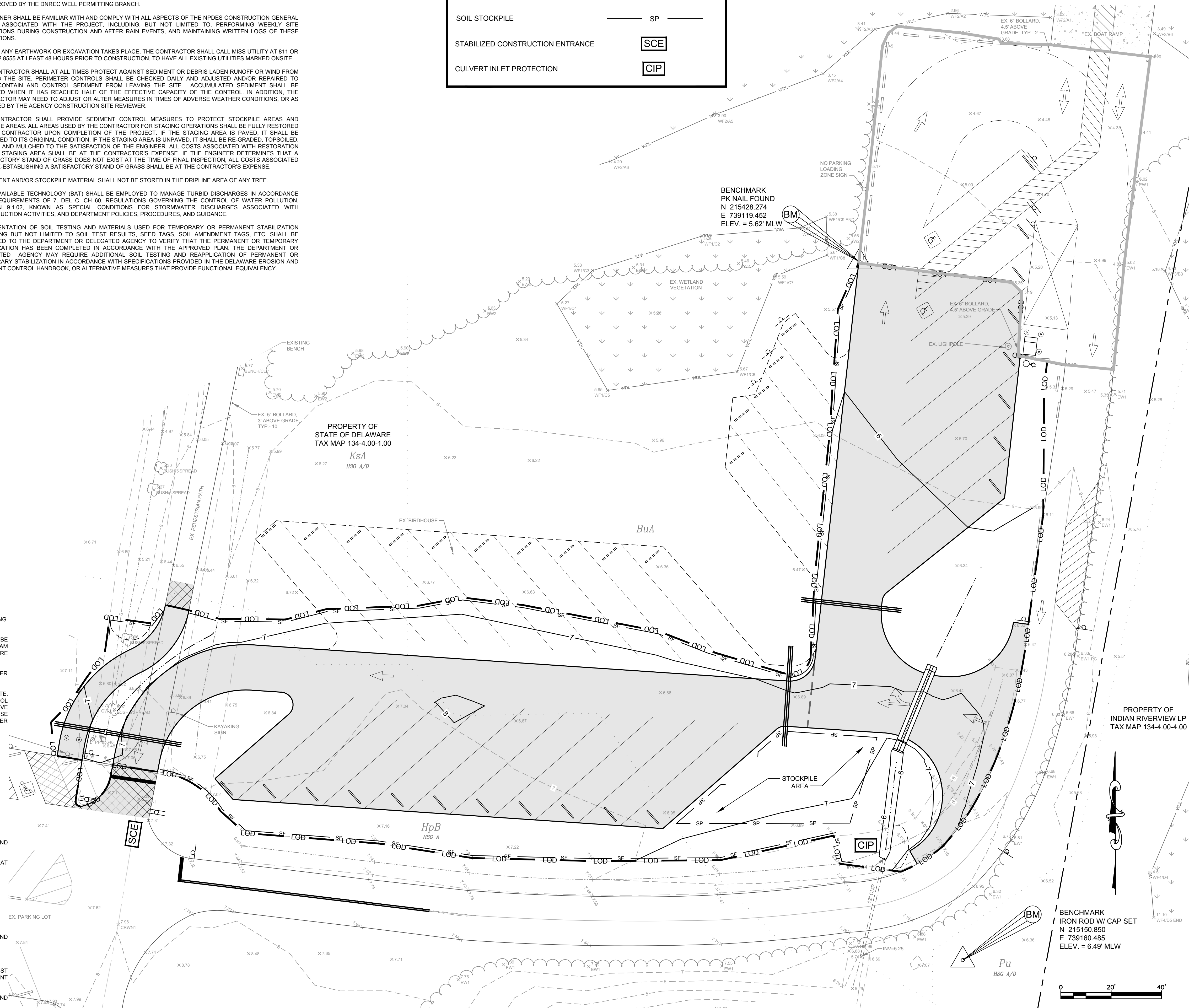


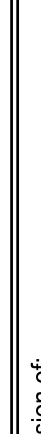


1. THE DNRCC SEDIMENT AND STORMWATER PROGRAM SHALL BE NOTIFIED IN WRITING FIVE (5) DAYS PRIOR TO COMMENCING WITH CONSTRUCTION. FAILURE TO DO SO CONSTITUTES A VIOLATION OF THE APPROVED SEDIMENT AND STORMWATER MANAGEMENT PLAN.
2. APPROVED PLANS REMAIN VALID FOR 3 YEARS FROM THE DATE OF APPROVAL.
3. REVIEW AND OR APPROVAL OF THE SEDIMENT AND STORMWATER MANAGEMENT STANDARD PLAN SHALL NOT RELIEVE THE CONTRACTOR FROM HIS OR HER RESPONSIBILITIES FOR COMPLIANCE WITH THE REQUIREMENTS OF THE DELAWARE SEDIMENT AND STORMWATER REGULATIONS, NOR SHALL IT RELIEVE THE CONTRACTOR FROM ERRORS OR OMISSIONS IN THE APPROVED PLAN.
4. IF THE APPROVED PLAN NEEDS TO BE MODIFIED, ADDITIONAL SEDIMENT AND STORMWATER CONTROL MEASURES MAY BE REQUIRED AS DEEMED NECESSARY BY THE DNRCC OR THE DELEGATED AGENCY.
5. DNRCC RESERVES THE RIGHT TO ENTER PRIVATE PROPERTY FOR PURPOSES OF PERIODIC SITE INSPECTION.
6. FOLLOWING SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED FOR ALL PERIMETER CONTROLS, SOIL STOCKPILES, AND ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE WITHIN 14 CALENDAR DAYS UNLESS MORE RESTRICTIVE FEDERAL REQUIREMENTS APPLY.
7. ALL EROSION AND SEDIMENT CONTROL PRACTICES SHALL COMPLY WITH THE DELAWARE EROSION AND SEDIMENT CONTROL HANDBOOK, LATEST EDITION.
8. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO MAINTAIN AND REPAIR ALL EROSION, SEDIMENT CONTROL DURING SITE CONSTRUCTION.
9. ALL SEDIMENT AND STORMWATER MANAGEMENT PLANS SHALL CONTAIN CERTIFICATION BY THE OWNER OR DEVELOPER OF THE RIGHT OF THE DEPARTMENT OR DELEGATED INSPECTION AGENCY TO CONDUCT ON-SITE INSPECTIONS.
10. THE SIGNED OWNER'S CERTIFICATION IS ON SHEET C-100.
11. POST CONSTRUCTION VERIFICATION DOCUMENTS ARE TO BE SUBMITTED TO DNRCC SEDIMENT AND STORMWATER PROGRAM WITHIN 60 DAYS OF THE STORMWATER MANAGEMENT FACILITY COMPLETION.
12. APPROVAL OF A SEDIMENT AND STORMWATER PLAN DOES NOT GRANT OR IMPLY A RIGHT TO DISCHARGE STORMWATER RUNOFF. THE OWNER/DEVELOPER IS RESPONSIBLE FOR ACQUIRING ANY AND ALL AGREEMENTS, EASEMENTS, ETC., NECESSARY TO COMPLY WITH STATE DRAINAGE AND OTHER APPLICABLE LAWS.
13. THE NOTICE OF INTENT FOR STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY UNDER ANY PERMIT OR GENERAL PERMIT OR RECORD IS REQUIRED AT ANY TIME THE OWNERSHIP FOR THIS PROJECT CHANGES, A TRANSFER OF AUTHORIZATION OR A CO-PERMITTEE APPLICATION MUST BE SUBMITTED TO DNRCC. THE PERMITTEE OF RECORD SHALL NOT BE RELIEVED OF THEIR RESPONSIBILITIES UNTIL A NOTICE OF TERMINATION HAS BEEN PROCESSED BY DNRCC.
14. THE OWNER SHALL BE FAMILIAR WITH AND COMPLY WITH ALL ASPECTS OF THE NPDES CONSTRUCTION GENERAL PERMIT ASSOCIATED WITH THE PROJECT, INCLUDING, BUT NOT LIMITED TO, PERFORMING WEEKLY SITE INSPECTIONS DURING CONSTRUCTION AND AFTER RAIN EVENTS, AND MAINTAINING WRITTEN LOGS OF THESE INSPECTIONS.
15. ALL SEDIMENT AND EROSION CONTROL MEASURES SHALL REMAIN IN PLACE UNTIL FINAL STABILIZATION IS ESTABLISHED.
16. ALL AREAS NOT COVERED BY PAVEMENT WILL BE SEEDED USING PERMANENT SEED MIXTURE #7 AS SHOWN ON SHEET ES-102.
17. UPON COMPLETION OF STOCKPILING TOPSOIL, SEED AND MULCH USING TEMPORARY SEED MIXTURE SPECIFICATIONS IF TO REMAIN IN PLACE LONGER THAN 14 DAYS.
18. PERMANENT STABILIZATION:  
SEED MIX #7 SHALL BE UTILIZED AND SHALL BE INSTALLED IN ACCORDANCE WITH STANDARD DETAIL 3.4.3 AND 3.4.5 ON SHEET ES-102.
19. TEMPORARY STABILIZATION:  
SEED MIX #8 SHALL BE UTILIZED AND SHALL BE INSTALLED IN ACCORDANCE WITH STANDARD DETAIL 3.4.3 AND 3.4.5 ON SHEET ES-102.
20. IF TEMPORARY STABILIZATION IS REQUESTED, PERMANENT SEEDING SHALL BE PERFORMED DURING THE NEXT APPLICABLE PERIOD PER PARAGRAPH 15 ABOVE.
21. ALL FILL SLOPE AREAS SHOWN HEREON ARE TO BE STABILIZED PER PARAGRAPHS 16 OR 17 ABOVE IMMEDIATELY AFTER COMPLETION OF GRADING OPERATIONS FOR THESE SLOPES.
22. IF CONSTRUCTION ACTIVITY IS COMPLETED OR CEASES FOR A PERIOD OF 14 DAYS, ALL DISTURBED AREAS WILL BE RESTABILIZED EITHER PERMANENTLY OR TEMPORARILY, FOLLOWING THE SPECIFICATIONS AND STANDARDS IN THE DELAWARE EROSION AND SEDIMENT CONTROL HANDBOOK, LATEST EDITION.

1. NOTIFY DNRDC IN WRITING FIVE (5) DAYS PRIOR TO COMMENCING WITH CONSTRUCTION TO SCHEDULE A PRE-CONSTRUCTION MEETING. FAILURE TO DO SO CONSTITUTES A VIOLATION OF THE APPROVED SEDIMENT AND STORMWATER MANAGEMENT PLAN.
2. PRIOR TO ANY CLEARING, INSTALLATION OF SEDIMENT CONTROL MEASURES OR GRADING, A PRE-CONSTRUCTION MEETING MUST BE SCHEDULED AND CONDUCTED WITH THE DNRDC DIVISION OF WATERSHED STEWARDSHIP SEDIMENT AND STORMWATER PROGRAM CONSTRUCTION SITE INSPECTOR, THE LANDOWNER/DEVELOPER, CONTRACTOR, AND CERTIFIED CONSTRUCTION REVIEWER ARE REQUIRED TO BE IN ATTENDANCE AT THE PRE-CONSTRUCTION MEETING. THE DESIGNER IS RECOMMENDED TO ATTEND.
3. ALL PERIMETER CONTROLS ARE TO BE REVIEWED BY THE DNRDC DIVISION OF WATERSHED STEWARDSHIP SEDIMENT AND STORMWATER PROGRAM SITE INSPECTOR AND APPROVED PRIOR TO PROCEEDING WITH FURTHER SITE DISTURBANCE OR CONSTRUCTION.
4. THE CONTRACTOR SHALL AT ALL TIMES PROTECT AGAINST SEDIMENT OR DEBRIS LADEN RUNOFF OR WIND FROM LEAVING THE SITE. PERIMETER CONTROLS SHOULD BE CHECKED DAILY AND ADJUSTED AND/OR REPAIRED TO FULLY CONTAIN AND CONTROL SEDIMENTATION ON THE SITE. ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN IT HAS REACHED HALF OF THE EFFECTIVE CAPACITY OF THE CONTROL. IN ADDITION, THE CONTRACTOR MAY NEED TO ADJUST OR REPAIR MEASURES IN TIMES OF ADVERSE WEATHER CONDITIONS, OR AS DIRECTED BY THE DNRDC DIVISION OF WATERSHED STEWARDSHIP SEDIMENT AND STORMWATER PROGRAM SITE INSPECTOR.
5. CLEAR AND GRUB ALL AREAS NECESSARY FOR THE INSTALLATION OF PERIMETER CONTROLS.
6. INSTALL PERIMETER SILT FENCE AND STABILIZED CONSTRUCTION ENTRANCES.
7. ESTABLISH TEMPORARY STOCKPILE.
8. REMOVE CONCRETE PARKING BUMPERS TO INCLUDE ANY NECESSARY CLEARING AND GRUBBING.
9. BEGIN ROAD GRADING AND GENERAL GRADING OF SITE.
10. INSTALL STORMWATER INLETS AND PIPING
  - A) RELOCATE LIGHT POLE USING THE SERVICES OF A LICENSED ELECTRICAL CONTRACTOR.
  - B) CONSTRUCT PARKING LOT.
12. BEGIN PAVEMENT MILLING & CONSTRUCTION OF PARKING AREAS AND RE-ALIGNED PEDESTRIAN TRAIL, FINE GRADE PAVED AREAS AND INSTALL AGGREGATE BASE COURSE.
13. BOAT RAMP TO REMAIN OPEN DURING CONSTRUCTION OF PROPOSED PARKING LOT. CONTRACTOR TO PROVIDE UNIMPEDED ACCESS AT ALL TIMES.
14. STABILIZE ALL DISTURBED AREAS IN ACCORDANCE WITH THE EROSION AND SEDIMENT CONTROL NOTES.
15. INSTALL STRIPING
16. FINE GRADING, REDISTRIBUTE TOPSOIL AND STABILIZE WITH PERMANENT SEEDING. INSTALL SIGNS AND OTHER DECORATIONS.
17. INSPECT PAVED AREAS FOR SEDIMENT BEFORE INSTALLING FINAL PAVING SURFACE.
18. EROSION AND SEDIMENT CONTROL DEVICES SHOULD BE REMOVED ONLY AFTER WORK IN AN AREA HAS BEEN COMPLETED AND STABILIZED, WITH WRITTEN APPROVAL FROM THE AGENCY CONSTRUCTION SITE REVIEWER.
19. CONTACT THE DNRDC DIVISION OF WATERSHED STEWARDSHIP SEDIMENT AND STORMWATER PROGRAM FOR PROJECT CLOSE-OUT.
20. THE TERMINATION OF THE CONSTRUCTION GENERAL PERMIT WILL REQUIRE SUBMISSION AND ACCEPTANCE OF THE POST CONSTRUCTION VERIFICATION DOCUMENTS, INCLUDING FINAL STABILIZATION THROUGHOUT THE SITE, ALL ELEMENTS OF THE SEDIMENT AND STORMWATER MANAGEMENT PLAN IMPLEMENTED, AND ACCEPTANCE OF THE FINAL OPERATION AND MAINTENANCE PLAN.
21. FILE NOTICE OF TERMINATION FOR NPDES PERMIT WITH THE DNRDC DIVISION OF WATERSHED STEWARDSHIP SEDIMENT AND STORMWATER PROGRAM.

23. TEMPORARY VEGETATIVE COVER, MULCHING AND/OR SPRINKLING WITH WATER SHALL BE THE METHODS USED TO TEMPORARILY TO CONTROL DUST. SEE DETAIL 34.8 ON SHEET ES-102.
24. EROSION CONTROL MATTING IS REQUIRED IN ALL OPEN CHANNELS AND ON ALL SLOPES 3:1 OR GREATER. STABILIZATION MATTING SHALL BE NORTH AMERICAN GREEN SC150BN OR DNREC TYPE SSM-I1.
25. A CERTIFIED CONSTRUCTION REVIEWER (CPR) PROVIDED BY THE CONTRACTOR, MAY BE REQUIRED TO REVIEW THE EROSION AND SEDIMENT CONTROL AND STORMWATER MANAGEMENT WORK FOR THIS PROJECT.
26. AT ANY TIME A DEWATERING OPERATION IS USED, IT SHALL BE PREVIOUSLY APPROVED BY THE AGENCY. A CONSTRUCTION SITE REVIEWER FOR A NON-EROSIVE POINT OF DISCHARGE, AND A DEWATERING PERMIT SHALL BE APPROVED BY THE DNREC WELL PERMITTING BRANCH.
27. THE OWNER SHALL BE FAMILIAR WITH AND COMPLY WITH ALL ASPECTS OF THE NPDES CONSTRUCTION GENERAL PERMIT ASSOCIATED WITH THE PROJECT, INCLUDING, BUT NOT LIMITED TO, PERFORMING WEEKLY SITE INSPECTIONS DURING CONSTRUCTION AND AFTER RAIN EVENTS, AND MAINTAINING WRITTEN LOGS OF THESE INSPECTIONS.
28. BEFORE ANY EARTHWORK OR EXCAVATION TAKES PLACE, THE CONTRACTOR SHALL CALL MISS UTILITY AT 811 OR 1.800.282.8555 AT LEAST 48 HOURS PRIOR TO CONSTRUCTION, TO HAVE ALL EXISTING UTILITIES MARKED ON SITE.
29. THE CONTRACTOR SHALL AT ALL TIMES PROTECT AGAINST SEDIMENT OR DEBRIS LADING RUNOFF OR WIND FROM LEAVING THE SITE. PERIMETER CONTROLS SHALL BE CHECKED DAILY AND ADJUSTED AND/OR REPAIRED TO PREVENT SEDIMENT OR DEBRIS FROM LEAVING THE SITE. ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN IT HAS REACHED HALF OF THE EFFECTIVE CAPACITY OF THE CONTROL. IN ADDITION, THE CONTRACTOR MAY NEED TO ADJUST OR ALTER MEASURES IN TIMES OF ADVERSE WEATHER CONDITIONS, OR AS DIRECTED BY THE AGENCY CONSTRUCTION SITE REVIEWER.
30. THE CONTRACTOR SHALL PROVIDE SEDIMENT CONTROL MEASURES TO PROTECT STOCKPILE AREAS AND STORAGE AREAS. STOCKPILE AREAS AND STORAGE AREAS DURING STAGING OPERATIONS SHALL BE FULLY RESTORED TO THE CONTRACTOR UPON COMPLETION OF THE PROJECT. IF THE STAGING AREA IS PAVED, IT SHALL BE RESTORED TO ITS ORIGINAL CONDITION. IF THE STAGING AREA IS UNPAVED, IT SHALL BE RE-GRADED, TOPSOILED, SEEDS AND MULCHED TO THE SATISFACTION OF THE ENGINEER. ALL COSTS ASSOCIATED WITH RESTORATION OF STOCKPILING AND STORAGE AREAS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL MAINTAIN A SATISFACTORY STAND OF GRASS DOES NOT EXIST AT THE TIME OF FINAL INSPECTION, ALL COSTS ASSOCIATED WITH RE-ESTABLISHING A SATISFACTORY STAND OF GRASS SHALL BE AT THE CONTRACTOR'S EXPENSE.
31. EQUIPMENT AND/OR STOCKPILE MATERIAL SHALL NOT BE STORED IN THE DRILLPANE AREA OF ANY TREE.
32. BEST AVAILABLE TECHNOLOGY (BAT) SHALL BE EMPLOYED TO MANAGE TURBID DISCHARGES IN ACCORDANCE WITH REQUIREMENTS OF 7 DEL C. CH 60, REGULATIONS GOVERNING THE CONTROL OF WATER POLLUTION. SECTION 9.102, KNOWN AS SPECIAL CONDITIONS FOR STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITIES, AND DEPARTMENT POLICIES, PROCEDURES, AND GUIDANCE.
33. DOCUMENTATION OF SOIL TESTING AND MATERIALS USED FOR TEMPORARY OR PERMANENT STABILIZATION INCLUDING BUT NOT LIMITED TO SOIL TEST RESULTS, SEED TAGS, SOIL AMENDMENT TAGS, ETC. SHALL BE PROVIDED TO THE DEPARTMENT BY THE DEPARTMENT ACTIVITY TO VERIFY IF THE PERMANENT OR TEMPORARY STABILIZATION HAS BEEN COMPLETED IN ACCORDANCE WITH THE APPROVED PLAN. THE DEPARTMENT OR DELEGATED AGENCY MAY REQUIRE ADDITIONAL SOIL TESTING AND REAPPLICATION OF PERMANENT OR TEMPORARY STABILIZATION MATERIALS TO VERIFY THE STABILIZATION OF THE EROSION AND SEDIMENT CONTROL HANDBOOK, OR ALTERNATIVE MATERIALS THAT PROVIDE FUNCTIONAL EQUIVALENCY.



<b><i>EROSION &amp; SEDIMENT CONTROL PLAN</i></b> <b><i>Proposed Boat Ramp Parking</i></b>			<b>Andrews, Miller &amp; Associates</b>								
<b><i>Holts Landing State Park</i></b>			A Division of:			ARCHITECTS   ENGINEERS   SURVEYORS DAVIS, BOWEN & FRIEDEL, INC. SALISBURY PLAZA (410) 438-9971 MILFORD, DELAWARE 19381-4444 EASTON, MARYLAND (410) 770-4744					
<b><i>Department of Natural Resources and Environmental Control</i></b> <i>Division of Parks and Recreation</i>											
DRAWN	DESIGNED	CHECKED	REVISIONS								
SMS	RBE	JPL	ITEM								
DATE <b>SEPT. 2017</b>			NO.			DATE			BY		
SCALE <b>1" = 20'</b>											
PRJ# NO <b>1945C003</b>											
Dwg No: <b>ES-101</b>											
4 of 5											



