The south and west areas of the site include a proposed parking lot and open space for fields. Because of the space restrictions required by these amenities, it was determined infeasible to keep the drainage area to less than 20,000 sq. ft. Therefore, these areas of the project site will be treated by submerged gravel wetlands.

The provided ESDv = 63,379 cu. ft.

QUANTITY CONTROL

The proposed project will result in a 9.89 acre increase in impervious area. Prince Georges County DPIE has determined that the project lies within a watershed that requires 100-year quantity management. The two underground SWM facilities have been sized to provide 100-year quantity control for the 21.62 acre site. Results from the preliminary TR-20 indicate that the predeveloped condition total peak discharge for the site is 101.1 cfs. With the two underground SWM facilities and the storage in the submerged gravel wetland the proposed conditions total peak discharge for the site is 107.7 cfs.

EXISTING STORM DRAIN EVALUATION

Drainage from the site will enter three existing storm drain systems. Preliminary storm drain calculations indicate small increases to the existing storm due to the proposed development. The preliminary calculations

OUTFALL ADEQUACY ANALYSIS

shown to have adequate capacity to handle any increase in flow from the site.

The project has been designed to provide ESDv utilizing bio-retention and micro-bioretention. As designed, these will meet water quality (WQv) and Channel Protection (CPv) requirements. Onsite quantity control will be also provided. The resulting changes to the rate and volume of discharge due to the project at the outfall into Broad Branch and Swan Creek will be negligible

THIS PLAN FOR EROSION AND SEDIMENT CONTROL ONLY

DISTURBED OR SUPPORT CONSTRUCTION VEHICLE TRAFFIC OR MATERIAL STORAGE PRIOR TO INSTALLATION. CARE SHOULD BE TAKEN TO ENSURE PROPER CONSTRUCTION. EXCAVATION SHOULD BE CONDUCTED IN DRY CONDITIONS WITH EQUIPMENT LOCATED OUTSIDE OF THE PRACTICE TO MINIMIZE BOTTOM AND SIDEWALL COMPACTION. ONLY LIGHTWEIGHT, LOW GROUND CONTACT EQUIPMENT SHALL BE USED WITHIN MICRO-BIORETETNION PRACTICES AND THE BOTTOM SHALL BE SCARIFIED BEFORE INSTALLING UNDERDRAINS AND FILTERING MEDIA. PROVIDE VEGETATIVE STABILIZATION OF ALL AREAS DISTURBED DURING CONSTRUCTION OF THE SUBMERGED GRAVEL WETLAND AND MICRO-BIORETENTION FACILITIES. (DAY 298-340)

10. COMPLETE FINE GRADING AND PROVIDE VEGETATIVE STABILIZATION. FINE GRADING SHALL BE OUTSIDE THE CONTRIBUTING DRAINAGE AREA TO ESD FACILITIES (DAY 341-345)

11. COMPLETE FINAL LANDSCAPING (DAY 346-350)

12. REMOVE SEDIMENT CONTROL MEASURES WITH THE PERMISSION OF THE SEDIMENT AND EROSION CONTROL INSPECTOR AND STABILIZE AREAS DISTURBED DURING REMOVAL OF CONTROLS. (DAY 351-355)

AND IS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE, AND THAT THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE PRINCE GEORGE'S SOIL CONSERVATION DISTRICT AND "STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL". I HAVE REVIEWED THIS EROSION AND SEDIMENT CONTROL PLAN WITH THE OWNER/DEVELOPER"

SIGNATURE MD LICENSE# 11391 EXP. DATE 03-25-2023

PRINTED NAME: ALAN K. ARNOLD DATE: <u>04/28/2021</u>

al.arnold@stantec.com

www.stantec.com The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing-any errors or omissions shall be reported to Stante without delay. The Copyrights to all designs and rawings are the property of Stantec. Reproduction or use for any purpose other than that

IT IS THE APPLICANT'S RESPONSIBILITY TO OBTAIN ANY STATE PERMITS IF REQUIRED, FOR ANY CONSTRUCTION ACTIVITY COVERED BY THIS PLAN WHICH IMPACTS A STATE REGULATED WETLAND. ANY CHANGES TO PLANS FOR THIS DEVELOPMENT WHETHER REQUIRED BY THE STATE OR INITIATED BY THE APPLICANT TO MEET STATE REQUIREMENTS,

SC02 CONCEPT AND ESD GRADING EROSION AND SEDIMENT CONTROL - INITIAL PHASE CONCEPT AND ESD GRADING EROSION AND SEDIMENT CONTROL - INITIAL SC04 CONCEPT AND EROSION AND SEDIMENT CONTROL - FINAL PHASE SC05 CONCEPT AND EROSION AND SEDIMENT CONTROL - FINAL PHASE SC06 GRADING, EROSION AND SEDIMENT CONTROL NOTES AND SPECIFICATIONS SC07 GRADING, EROSION AND SEDIMENT CONTROL NOTES AND SPECIFICATIONS SC08 GRADING, EROSION AND SEDIMENT CONTROL DETAILS AND LEGEND

*STABILIZATION PRACTICES ON ALL PROJECTS MUST BE IN COMPLIANCE WITH THE REQUIREMENTS OF COMAR 26.17.1.08G REGULATIONS BY 01/09/13, REGARDLESS OF WHEN AN EROSION AND SEDIMENT CONTROL PLAN WAS APPROVED.

FOLLOWING INITIAL SOIL DISTURBANCE OR RE-DISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION MUST BE COMPLETED WITHIN: A.) THREE (3) CALENDAR DAYS AS TO THE SURFACE OF ALL PERIMETER DIKES, SWALES, DITCHES, PERIMETER SLOPES, AND ALL SLOPES STEEPER THAN 3 HORIZONTAL TO 1 VERTICAL (3:1);AND

B.) SEVEN (7) CALENDAR DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE NOT UNDER ACTIVE GRADING.

PROJEC

EROSION AND SEDIMENT CONTROL GENERAL NOTES

1. THE DEVELOPER IS RESPONSIBLE FOR THE ACQUISITION OF ALL REQUIRED EASEMENT, RIGHT AND/OR RIGHTS-OF-WAY PURSUANT TO THE DISCHARGE FROM THE EROSION AND SEDIMENT CONTROL PRACTICES, STORMWATER MANAGEMENT PRACTICES AND THE DISCHARGE OF STORMWATER ONTO OR ACROSS AND GRADING OR OTHER WORK TO BE PERFORMED ON ADJACENT OR DOWNSTREAM PROPERTIES AFFECTED BY THIS PLAN.

2. FOLLOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN: A) THREE (3) CALENDAR DAYS AS TO THE SURFACE OF ALL PERIMETER CONTROLS, DIKES, SWALES, DITCHES, PERIMETER SLOPES, AND ALL SLOPES GREATER THAN THREE HORIZONTAL TO ONE VERTICAL (3:1) AND B) SEVEN (7) CALENDAR DAYS FOR ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE, THE IN-PLACE SEDIMENT CONTROL MEASURES WILL BE MAINTAINED ON A CONTINUING BASIS UNTIL THE SITE IS PERMANENTLY STABILIZED AND ALL PERMIT REQUIREMENTS ARE

THE OWNER/DEVELOPER OR REPRESENTATIVE SHALL REQUEST THAT THE INSPECTION AUTHORITY APPROVE WORK COMPLETED IN ACCORDANCE WITH THE APPROVED EROSION AND SEDIMENT CONTROL PLAN, THE GRADING OR BUILDING PERMIT AND SHALL OBTAIN WRITTEN INSPECTION APPROVALS BY THE INSPECTOR AT THE FOLLOWING STAGES IN THE DEVELOPMENT OF THE SITE:

PRIOR TO THE START OF EARTH DISTURBANCE; UPON COMPLETION OF INSTALLATION OF TREE PROTECTION DEVICES, FOLLOWED BY THE INSTALLATION OF PERIMETER EROSION AND SEDIMENT CONTROLS, PRIOR TO PROCEEDING WIT ANY OTHER EARTH DISTURBANCE OR GRADING. OTHER BUILDING OR GRADING INSPECTION APPROVALS MAY NOT BE AUTHORIZED UNTIL INITIAL APPROVAL BY THE INSPECTOR IS MADE;

(3) UPON COMPLETION OF STRIPPING, THE STOCKPILING OF TOPSOIL THE CONSTRUCTION OF TEMPORARY SEDIMENT AND EROSION CONTROL FACILITIES, DISPOSAL OF ALL WASTE MATERIAL AND PREPARATION OF THE GROUND;

UPON COMPLETION OF ROUGH GRADING, BUT PRIOR TO PLACING TOPSOIL, PERMANENT DRAINAGE OR OTHER SITE DEVELOPMENT IMPROVEMENTS AND GROUND COVERS

PRIOR TO THE START OF ANOTHER PHASE OF CONSTRUCTION O OPENING OF ANOTHER GRADING UNIT:

PRIOR TO THE REMOVAL OF SEDIMENT CONTROL PRACTICES; AND UPON COMPLETION OF FINAL GRADING. REFORESTING PERMANENT DRAINAGE AND EROSION CONTROL FACILITIES INCLUDING ESTABLISHED GROUND COVERS AND PLANTING, AND ALL OTHER WORK OF THE BUILDING PERMITS

APPROVAL SHALL BE REQUESTED UPON FINAL STABILIZATION OF ALL SITES WITH DISTURBED AREAS IN EXCESS OF TWO ACRES

BEFORE REMOVAL OF CONTROLS. 5. ALL PERMITS UNDER AN EROSION AND SEDIMENT CONTROL PLAN MUST AND CAN ONLY BE ISSUED TO THE OWNER/DEVELOPER THAT SIGNS THE CERTIFICATION ON THE PLAN. THE OWNER/DEVELOPER

THAT SIGNS THE CERTIFICATION ON AN EROSION AND SEDIMENT CONTROL PLAN IS THE RESPONSIBLE PARTY REGARDLESS OF ANY SALE OF THE PROPERTY OR WORK OF SUBCONTRACTORS.

EROSION AND SEDIMENT CONTROL PLANS ARE APPROVED FOR

ONE OWNER/DEVELOPER ONLY.

PGSCD APPROVAL OF A EROSION AND SEDIMENT CONTROL PLAN PURSUANT TO MEETING LOCAL PERMIT REQUIREMENTS FOR

GRADING, BUILDING OR STREET PERMITS, ETC., IS VALID ONLY WHEN THE WORK TO BE PERFORMED UNDER THE PERMIT IS THE SAME AS (NO MORE/NO LESS THAN) THAT CONTAINED IN THE PLAN AS APPROVED BY THE PGSCD. ANY CHANGES OR MODIFICATIONS TO AN APPROVED EROSION AND

SEDIMENT CONTROL PLAN, NOT APPROVED BY THE PGSCD, SHALL INVALIDATE THE PLAN APPROVAL

OFFSITE BORROW OR SPOIL AREAS MUST HAVE AN APPROVED AND

ACTIVE EROSION AND SEDIMENT CONTROL PLAN.

SITE DATA

DISTURBED SURFACE AREA: 23.7 acres (1,033,026 SF)

VEGETATIVELY STABILIZED AREA: 13.6 acres (592,416 SF) VOLUME OF SPOIL MATERIAL: **VOLUME OF CUT** 22,712 CY **VOLUME OF BORROW MATERIAL:** 53.782 CY VOLUME OF FILL 76,494 CY

ALL SOIL ONSITE IS BELTSVILLE (BuD), LIVERPOOL (LxD), MATAPEAKE (MpB) PICCOWAXEN (PoB, PrB), SASSAFRAS (SaaC, SnB) COMPLEX.

LIMIT OF DISTURBANCE (LOD) IS COINCIDENT WITH THE SUPER SIT FENCE (SSF PRINCE GEORGE'S SOIL CONSERVATION DISTRICT

ENVIRONMENTAL SITE DEVELOPMENT APPROVAL
GRADING, EROSION AND SEDIMENT CONTROL
SSC# 105-21
EXPIRATION DATE
POND (P#)
DISTRICT SIGNATURE APPROVAL DATE

PRINCE GEORGE'S COUNTY PUBLIC SCHOOL **NEW SOUTHERN AREA K-8**

COMBINED CONCEPT AND ENVIRONMENTAL SITE DEVELOPMENT GRADING, EROSION AND SEDIMENT CONTROL

COVER SHEET PRINCE GEORGE'S COUNTY, MARYLAND DESIGN SCALE AS SHOWN HN/AKA HECKED APR 2021 18320533

CONTRACTOR:

GILBANE BUILDING COMPANY 1215 EAST FORT AVENUE BALTIMORE, MD 21230 email: MRICKETTS@GILBANECO.COM

THE BOARD OF EDUCATION OF PRINCE GEORGE'S COUNTY C/O JASON WASHINGTON OUIS WILSON SR., FACILITIES ADMIN BUILDING 3300 OLD MARLBORO PIKE UPPER MARLBORO, MD 20772 email: JASON.WASHINGTON@PGCPS.ORG

PROFESSIONAL CERTIFICATION HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED

OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.

LICENSE NO. <u>11391</u> EXPIRATION DATE: <u>03-25-2023</u>









