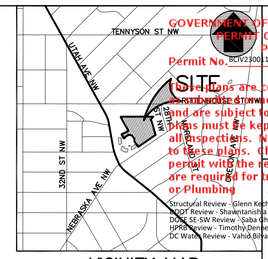
GOVERNMENT OF THE DISTRICT OF COLUMBIA
PERMIT OPERATIONS DIVISION
PLANS APPROVED
Permit No. BCV23001O Date 11/16/23
Plans are conditionally approved construction as noted during plan review and are subject to field inspection. Approved plans must be kept on site and are needed for all inspections. No changes or modifications to these plans. Changes require a revision permit with the revised plans. Trade Permits are required for trade work (e.g. Electrical or Plumbing
Structural Review - Glenn Kechejian - 11-16-2023
DDOT Review - Shakentaisha Zackery - 11-16-2023
DOEE SE-SW Review - Saba Gharavi - 11-16-2023
HPRB Review - Timothy Dennee - 11-16-2023
DC Water Review - Vahid Bihardi - 11-16-2023



VICINITY MAP
SCALE 1" = 1000'

VIKA CAPITOL
ENGINEERS ★ PLANNERS ★ LANDSCAPE ARCHITECTS ★ SURVEYORS
PROJECT COORDINATOR:
BRIAN RUHL
ruhl@vikacapitol.com
VIKA CAPITOL, LLC ★ 4910 MASSACHUSETTS AVENUE, NW SUITE 16 ★ WASHINGTON, DC 20016 ★ PHONE: 202.244.4140 ★ WWW.VIKACAPITOL.COM

MARET SCHOOL
PROPOSED ATHLETIC FIELDS
SQUARE 2319, LOT 832
5901 UTAH AVE NW
WASHINGTON, D.C. 20015

STORMWATER MANAGEMENT NARRATIVE:

STORMWATER MANAGEMENT FOR THESE PROPOSED ATHLETIC FIELD AND PARKING LOT WILL BE ACHIEVED BY PROVIDING DETENTION STORAGE THROUGH A GRAVEL AREA AND A LARGE STORAGE PIPE AND INSTALLING A BIO–RETENTION FACILITY. THE EXISTING INFILTRATION FACILITY FOR THE PREVIOUSLY CONSTRUCTED "MEDIA CENTER". WILL BE REMOVED AND THE WATER WILL BE TREATED IN THE PROPOSED BIO–RETENTION FACILITY.

ATHLETIC FIELD DETENTION REQUIREMENT:

PER SECTION 2.12.3 OF THE STORMWATER MANAGEMENT GUIDEBOOK JANUARY 2020, AN ATHLETIC FIELD THAT HAS:

- PRE–PROJECT LAND DISTURBANCE THAT IS COMPACTED COVER
- THE ATHLETIC SURFACE IS LOCATED AT A SCHOOL OR PUBLIC PARK AND IS MADE AVAILABLE FOR USE BY THE GENERAL PUBLIC

SHALL MEET THE 2 AND 15 YEAR POST DEVELOPMENT PEAK DISCHARGE REQUIREMENTS FOR MAJOR LAND–DISTURBANCE.

THROUGH THE BOARD OF ZONING ADJUSTMENTS, THESE ATHLETIC FIELDS WILL BE OPEN TO THE GENERAL PUBLIC, AND THUS, SHALL MEET THE 2 AND 15 YEAR REQUIREMENTS.

ATHLETIC FIELD DETENTION PROVIDED:

DUE TO THE EXISTING SITE'S GRADES AND RETAINING WALL RESTRICTIONS, A LEVEL OR CROWNED FIELD COULD NOT BE BUILT. THEREFORE, THE FIELD SLOPES AT APPROXIMATELY 1.4% FROM NORTHWEST TO SOUTHEAST. THE PROPOSED ARTIFICIAL TURF FIELD SHALL HAVE A STONE LAYER WITH UNDERDRAINS WHICH WILL DRAIN TO A LARGE GRAVEL RESERVOIR. THIS GRAVEL RESERVOIR IN THE SOUTHERN PART OF THE FIELDS TAKES THE PLACE OF A UNIFORM GRAVEL LAYER UNDER THE ENTIRE FIELD DUE TO THE SLOPING NATURE OF THE FIELD. THIS GRAVEL STRUCTURE/RESERVOIR IS 22,000 SF AND 4' DEEP, GIVING 88,000 CF OF WATER STORAGE. WITHIN THE GRAVEL RESERVOIR LARGE PERFORATED PIPES WILL DRAIN INTO A CONCRETE JUNCTION BOX WITH ADDITIONAL STORAGE IN A 60" DIAMETER PIPE. THIS JUNCTION BOX WILL HAVE A WEIR WALL AND A 3" ORIFICE WHICH SHALL RELEASE THE 1.2" STORM IN APPROXIMATELY 43 HOURS.

BIO–RETENTION FACILITY

DUE TO THE AMOUNT OF LAND DISTURBANCE, THE BIO–RETENTION FACILITY HAS BEEN DESIGNED TO MEET THE RETENTION OF A 1.2"STORM EVENT. THE SURFACE AREA OF THE PARKING LOT SHALL ALL BE DRAINED INTO THE BIO–RETENTION FACILITY. ADDITIONAL AREAS ARE ALSO PROVIDED TO BE DRAINED INTO THIS BIO–RETENTION.

- THE NORTHWEST AREA WHERE THE HERITAGE TREES WERE RELOCATED HAS BEEN GRADED AND DRAINAGE PROVIDED TO THE BIO–RETENTION FACILITY
- A SMALL AREA OF OFF–SITE IMPERVIOUS WAS ALSO ADDED AS CONTRIBUTING DRAINAGE AREA FOR THE BIO–RETENTION FACILITY

REMOVAL OF PREVIOUSLY APPROVED INFILTRATION FACILITY

INFILTRATION FACILITY #517–0–1 WAS INSTALLED WITH THE 2002 CONSTRUCTION OF THE MEDIA CENTER BUILDING. THE CIVIL PLAN SHOWING THIS FACILITY AND CALCULATIONS HAS BEEN INCLUDED WITH THIS SET. THIS INFILTRATION FACILITY WILL BE REMOVED WITH THE CONSTRUCTION OF THE ATHLETIC FIELDS. THE EXISTING DRAIN PIPE LEADING TO THE INFILTRATION FACILITY FROM THE ROOF LEADERS OF THE MEDIA CENTER SHALL BE INTERCEPTED WITH A PROPOSED MANHOLE AND THIS STORMWATER WILL BE DIVERTED TO THE BIO–RETENTION FACILITY. THE CALCULATED 389 CF OF DETENTION DESIGNED FOR THIS INFILTRATION FACILITY SHALL BE ABSORBED BY THE PROPOSED BIO–RETENTION.

STORMWATER MANAGEMENT LEGEND:

PROPOSED DRAINAGE DIVIDE

LIMITS OF DISTURBANCE — LOD —

PROPOSED STORM DRAIN OUTFALL — XX"SD →

PROPOSED BIORETENTION

7718–1–1 CDA

7718–1–2 CDA

TEST PIT NOTE:
INFORMATION CONCERNING UNDERGROUND UTILITIES WAS OBTAINED FROM AVAILABLE RECORDS. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION, ELEVATIONS, AND SIZES OF EX. UTILITIES BY DIGGING TESTS PITS BY HAND AT ALL POINTS OF CONNECTION AND AT CROSSINGS. RESULTS FROM THESE TEST PITS SHALL BE SUBMITTED TO THE ARCHITECT FIVE (5) WORKING DAYS PRIOR TO COMMENCING CONSTRUCTION AND/OR ORDERING MATERIALS.

**NOTE
THE INFORMATION, DESIGN AND CONTENT OF THE DRAWINGS OR DOCUMENTS ATTACHED HERETO ARE PROPRIETARY TO VIKA CAPITOL, LLC AND CONSTITUTE ITS PROPRIETARY INTELLECTUAL PROPERTY. THE ATTACHED DRAWINGS AND/OR DOCUMENTS MAY NOT BE REPRODUCED, SHARED, COPIED, DIGITALLY CONVERTED, MODIFIED, OR USED FOR ANY PURPOSE, IN ANY FORMAT, WITHOUT PRIOR WRITTEN AUTHORIZATION FROM VIKA CAPITOL, LLC. VIOLATIONS MAY RESULT IN PROSECUTION. ONLY APPROVED, SIGNED AND SEALED PLANS OR DRAWINGS MAY BE UTILIZED FOR CONSTRUCTION PURPOSES.

VIKA CAPITOL REVISIONS

#	DATE	DESCRIPTION

DATE: 23–FEB–2023
DES. KUO DWN. BJR
SCALE: AS SHOWN
PROJECT/FILE NO. VC0626D
SHEET NO. CIV0600

Board of Zoning Adjustment
District of Columbia
CASE NO. 21100
EXHIBIT NO. 2.16

"FOR LOCATION OF UTILITIES CALL 8-1-1 or 1-800-257-7777 OR LOG ON TO or 48 HOURS IN ADVANCE OF ANY WORK IN THIS VICINITY"

CONTRACTOR IS RESPONSIBLE FOR NOTIFYING VIKA CAPITOL (202 244–4140) AT LEAST 48–HOURS IN ADVANCE OF ALL PRE–CONSTRUCTION, INSPECTION OR FINAL REVIEW MEETINGS WITH DOEE STAFF.

GRAPHIC SCALE
30 0 15 30 60 120
(IN FEET)
1 inch = 30 ft.

KYLE U. OLIVER
DISTRICT OF COLUMBIA
PE900770
CIVIL
PROFESSIONAL ENGINEER

LAYOUT: CIV0600 SWM PLAN, Plotted By: ruhl
S:\0000-1000\0626D - 5901 Utah Ave. NW - Final Eng\Land\construction documents\VC0626D_200.dwg - Mar 31, 2023 AT 4:45:07 PM