





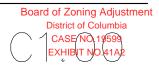


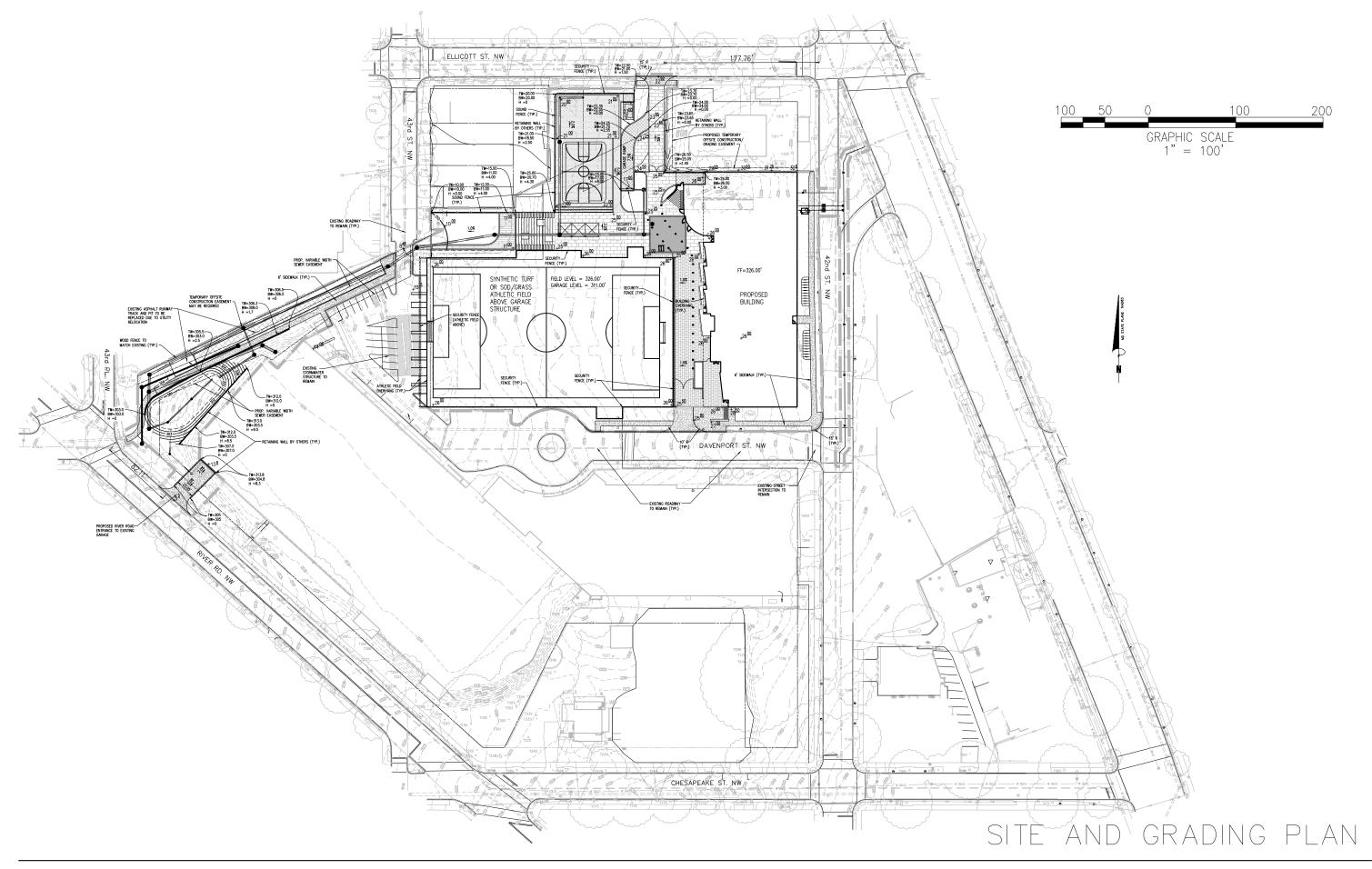






4200 Davenport St NW. Washington, DC 20016 1" = 100'-0" | 11/08/2017







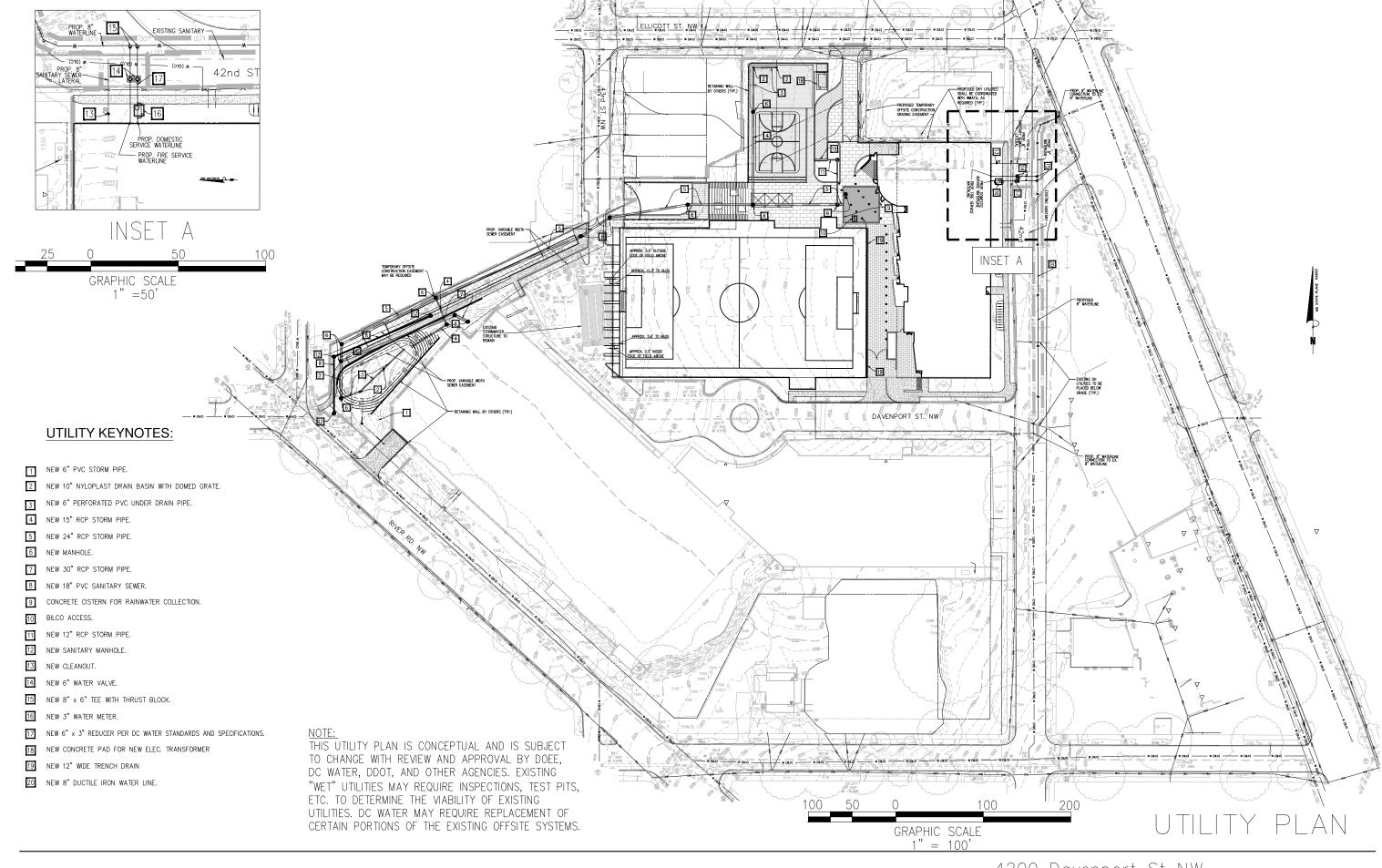
























SWM NARRATIVE:

STORMWATER RETENTION IS PROVIDED ON SITE BY THE FOLLOWING FACILITIES:

- GREEN ROOF SYSTEM PROVIDES TREATMENT AND VOLUME RETENTION
- STANDARD PERMEABLE PAVEMENT CAPTURES RUNOFF WITHIN PORTION OF PLAZA. UNDERDRAINS COLLECT WITHIN STORM SEWER SYSTEM WHICH CONVEYS TO THE SOUTHWEST BIORETENTION AREA FOR FURTHER TREATMENT.
- STANDARD BIORETENTION PLANTER BOX RUNOFF FROM THE ATHLETIC FIELD IS CAPTURED BY SURFACE DRAINS AND CONVEYED BY ROOF DRAINS TO THE BIORETENTION PLANTER BOX.
- STANDARD BIORETENTION AREA RUNOFF FROM THE SITE IS CAPTURED BY STORM INLETS / PERMEABLE PAVEMENT SYSTEMS / DRAINS AND CONVEYED THROUGH STORM SEWER TO THE BIORETENTION AREA. ADDITIONALLY, OVERLAND RUNOFF TO THE WEST OF THE SITE IS CAPTURED BY THE BIORETENTION AREA.
- CISTERN ROOF RUNOFF AND PORTION THE ATHLETIC FIELD IS CAPTURED AND CONVEYED BY ROOF DRAINS TO A CONCRETE CISTERN / STORMWATER MANAGEMENT VAULT LOCATED WITHIN THE BUILDING. THE CISTERN WILL SERVE THE MIDDLE SCHOOL BUILDING AS A RAINWATER COLLECTION SYSTEM FOR TOILET USAGE DEMAND AND/OR FOR A COOLING TOWER SYSTEM. THE CISTERN WILL ALSO PROVIDE STORMWATER MANAGEMENT DETENTION FOR 2—YR AND 15—YR STORM PEAK DISCHARGE.

SWM REQUIREMENTS:

THIS PROJECT FALLS WITHIN THE GUIDELINES OF A 'MAJOR LAND DISTURBANCE' THUS REQUIRING A STORMWATER RETENTION VOLUME (SWRV) DISTORBANCE THUS REQUIRING A STORMARM ER RETENTION VOLUME (SWKY)
BASED ON THE 1.2" STORM, PER THE 2013 SWM QUIDEBOOK FOR THE
DISTRICT OF COLUMBIA. IN ADDITION TO THE REQUIRED VOLUME RETENTION
ON-SITE, THE DESIGNED SWM FACILITIES WILL ALSO PROVIDE 2-VR AND
15-VR STORM CONTROL FOR PEAK DISCHARGE TO THE PRE-DEVELOPMENT
AND PRE-PROJECT RATE, RESPECTIVELY, FURTHERMORE, THIS PROJECT IS LOCATED IN THE MUNICIPAL SEPARATE STORM SEWER SYSTEM (MS4), WHICH REQUIRES IT TO TREAT 50% OF THE STORMWATER THAT FALLS IN A

ANY LAND DISTURBANCE WITHIN THE PUBLIC RIGHT-OF-WAY WILL BE TREATED FOLLOWING THE DISTRICT'S PROCESS FOR MAXIMUM EXTENT PRACTICABLE

