NOTES:
• Streetscape details are shown in concept for illustrative purposes. The final details of
  the streetscape improvements will conform with the approved Foggy Bottom Campus
  Streetscape Guidelines as well as other applicable design and permitting standards.
• See architectural plans for building interior.
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• Streetscape details are shown in concept for illustrative purposes. The final details of the streetscape improvements will conform with the approved Foggy Bottom Campus Streetscape Guidelines as well as other applicable design and permitting standards.
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- Streetscape details are shown for illustrative purposes. The final details of the streetscape improvements will conform with the approved Foggy Bottom Campus Streetscape Guidelines as well as other applicable design and permitting standards.
- Plant species selections identified on this plan are shown to illustrate design intent only. The purpose is to generally define plant size, character, and locations. Refinements to the planting design and final selection of all plant materials consistent with the species shown shall be developed during detailed design phases of work.
- See architectural plans for building interior.
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NOT TO SCALE

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COBBLESTONE
(Located on 22nd Street, 23rd Street, H Street and Eye Street)

CONCRETE WALK
(Located on 22nd Street and 23rd Street)

BRICK WALK
(Located on H Street and Eye Street)

STONE PAVEMENT
(Located at building entrances)

COLORED CONCRETE
(Located in service courtyard)
STORMWATER MANAGEMENT CALCULATIONS

TOTAL IMPERVIOUS AREA (ha) = 20,682 sf or 1.06 ac

SEWER DATA:
Type of sewer: Combined Sewer
Size of sewer: Existing 12"

QUANTITY CONTROL REQUIREMENTS:
Q = C * A
where: Q = peak flow
C = runoff coefficient (for Urban) = 0.98
A = drainage area (ha)

2-YEAR CONTROL (Q2)
Q2 = (0.98 * 2.28 in/hr * 1.06 ac) = 2.42 in/hr
Q2 = 2.42 ac

15-YEAR CONTROL (Q15)
Q15 = (0.98 * 3.66 in/hr * 1.06 ac) = 3.58 in/hr
Q15 = 3.58 ac

SHORT-CUT ROUTING:
where: Tc = time of concentration (5 min)

Verr = 1.35 * Q15 / Tc
Verr = 1.35 * 3.58 in/hr / 5 min = 0.94 ft/min
Verr = 2415 sf or 38,064.90 gallons

DETERMINE WATER QUALITY VOLUMES:

where: Vwq = water quality volumes to be treated

R (runoff depth) = 0.3 in, sidewalk, 3 ft

C-09 = 3.35 ac (impermeable area)

Vwq = R * C
Vwq = 0.3 in * 3.35 ac
Vwq = 1.003 ft3
Vwq = 3,700.61 sf or 12,282.89 gallons

NOTE: Per DDOE standards, whichever of the two volume computations is larger, use the larger one for both quantity and quality requirements.

VOLUME OF CISTERNS PROVIDED:

Winters = Length x Width x Height
Winters = 39.17 x 20.37 x 0.48
Winters = 3,730.11 sf or 12,486.22 gallons

VOLUME PROVIDED = VOLUME REQUIRED

VOLUME PROVIDED = 3,730.11 sf or 12,486.22 gallons
VOLUME REQUIRED = 3,503 sf

VOLUME OF CISTERNS IS GREATER THAN VOLUME REQUIRED THEREFORE THE STRUCTURE SATISFIED THE DDOE REQUIREMENTS.

CISTERNS STRUCTURE
PLAN VIEW

SECTION VIEW