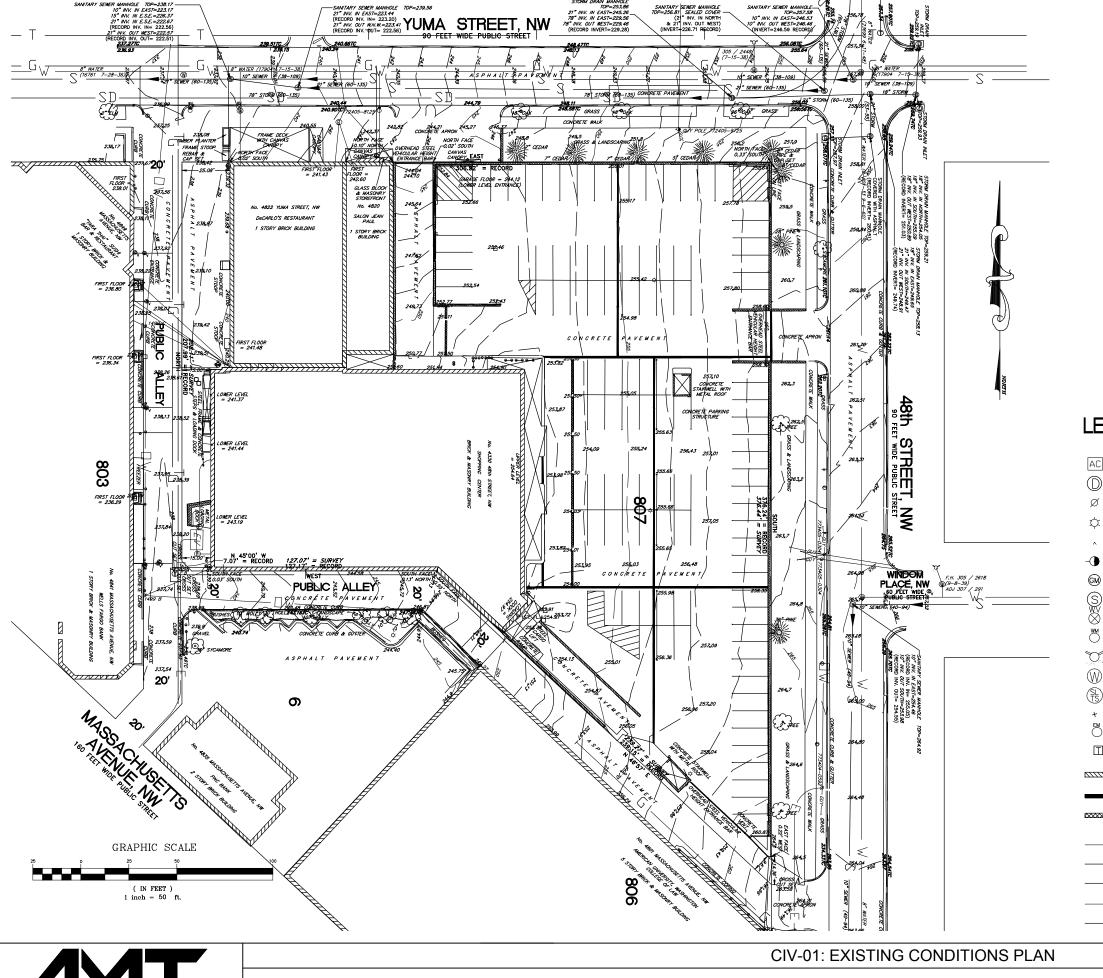
Civil Exhibits

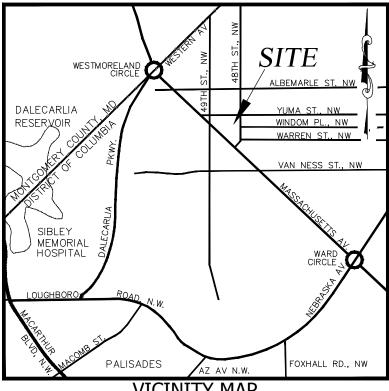
10/24/2016

CIV









VICINITY MAP SCALE: 1" = 2,000

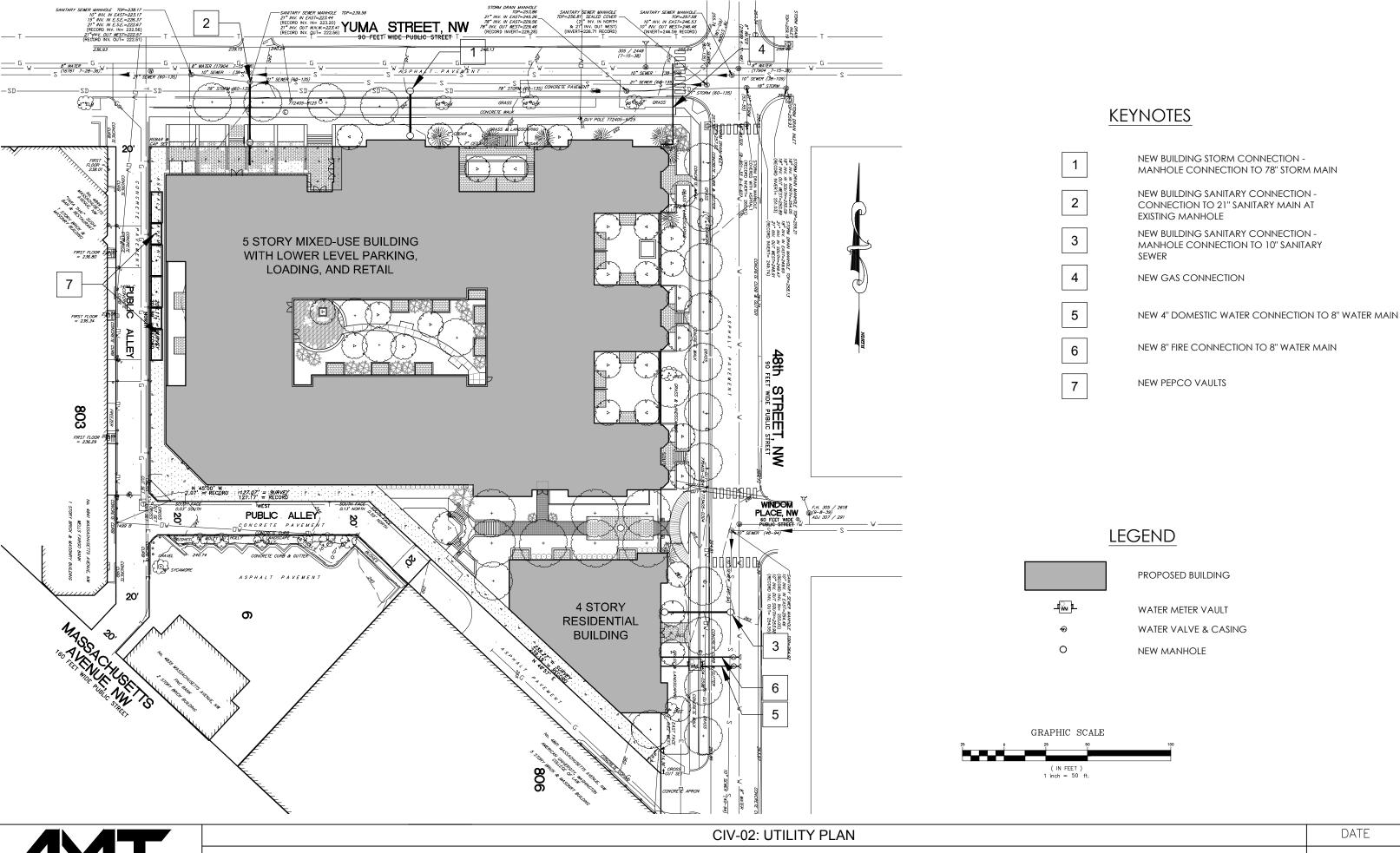
LEGEND - EXISTING

| | AIR CONDITIONER | | SURFACE DRAIN | |
|--|------------------------|----------------------------|-------------------------------|--|
| AC | | ш | | |
| | STORM MANHOLE | | SIGN | |
| Ø | POWER POLE | \bigcirc | TELEPHONE MANHOLE | |
| \Diamond | LIGHT POLE | (E) | ELECTRIC MANHOLE | |
| ^ | GUY WIRE ANCHOR | © _V | CAS VALVE | |
| -• | GUY POLE | <u>©</u> | GAS CONNECTION | |
| (GM) | GAS METER | | CLEANOUT | |
| _ | SANITARY MANHOLE | ww. | WATER METER | |
| \bigotimes | WATER VALVE | STP | STANDPIPE | |
| (S) (S) (S) (S) (S) (S) (S) (S) (S) (S) | WATER METER | Θ | PARKING METER | |
| Ø, | FIRE HYDRANT | © | BOLLARD | |
| Ŵ | WATER MANHOLE | EV | IN GROUND ELECTRIC VAULT | |
| (SL) | DC SL/TS MANHOLE | 9" CEDAR | CONIFEROUS TREE | |
| * 139.9 | GROUND SHOT | | SIZE & NAME | |
| EM | ELECTRIC METER | | DECIDUOUS TREE | |
| | TELEPHONE JUNCTION BOX | 36" SYCAMORI | SIZE & NAME | |
| | | | | |
| | | | CONCRETE RETAINING WALL | |
| | | | RUBBER GASKET EXPANSION JOINT | |
| <u> </u> | | | SURFACE TRENCH DRAIN | |
| ——E———E——— | | UNDERGROUND ELECTRIC LINE | | |
| G | | UNDERGROUND GAS LINE | | |
| T | | UNDERGROUND TELEPHONE LINE | | |
| | | OVERHEAD WIRES | | |
| ////// | | WOOD FENCE | | |

CONSULTING ENGINEERS
10 G STREET, NE, SUITE 430, WASHINGTON, DC, 20002

(202) 289-4545 FAX: (202) 289-5051

DATE

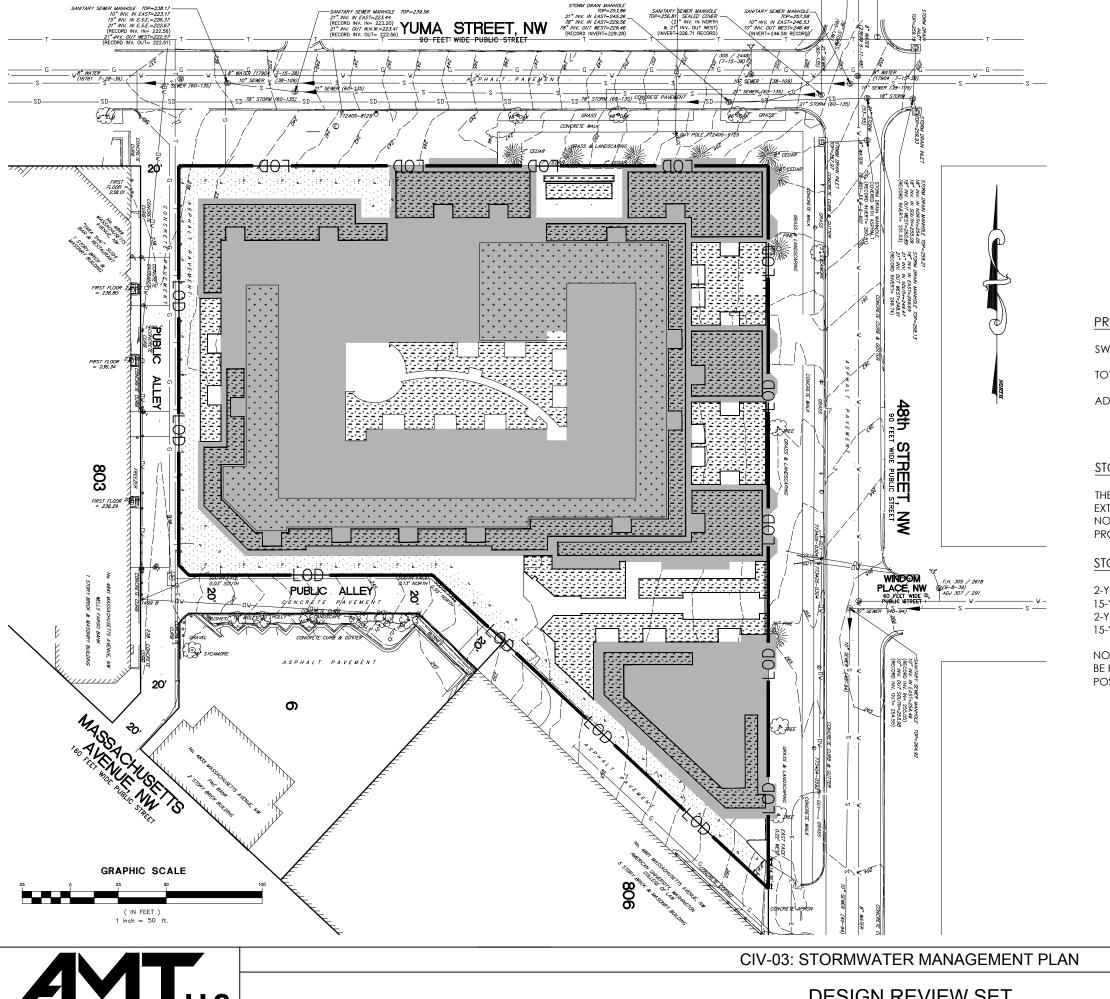


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DESIGN REVIEW SET 4330 48TH STREET, NW

10/24/2016



PRELIMINARY STORMWATER MANAGEMENT CALCULATIONS

SWMv REQUIRED: 7,421 CF

TOTAL RV GREEN ROOF PROVIDED: 4,629 CF

ADDITIONAL NON-GREEN ROOF REQUIRED: 20,805 SF

STORMWATER MANAGEMENT NARRATIVE

THE SITE WILL MEET ITS STORMWATER RETENTION VOLUME (7,421 CF) WITH A COMBINATION OF EXTENSIVE AND INTENSIVE GREEN ROOF.

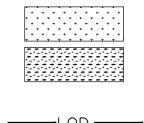
NO WETLANDS, STREAMS, OR WATER COURSES ARE LOCATED ON AND/OR ADJACENT TO THE PROPERTY.

STORMWATER RUNOFF CALCULATIONS

2-YEAR PRE-DEVELOPMENT (MEADOW CONDITION; C=0.35) RUNOFF = 3.4 CFS 15-YEAR PRE-DEVELOPMENT (MEADOW CONDITION; C=0.35) RUNOFF = 4.9 CFS 2-YEAR POST-DEVELOPMENT (IMPERVIOUS CONDITION; C=0.90) RUNOFF = 8.8 CFS 15-YEAR POST-DEVELOPMENT (IMPERVIOUS CONDITION; C=0.90) RUNOFF = 12.5 CFS

NOTE: TO MEET DC STORMWATER REGULATIONS, THE 2-YEAR POST-PROJECT RUNOFF WILL BE KEPT BELOW THE PRE-DEVELOPMENT 2-YEAR FLOW (3.4 CFS), AND THE 15-YEAR POST-PROJECT RUNOFF WILL BE LESS THAN THE PRE-PROJECT 15-YEAR FLOW.

LEGEND



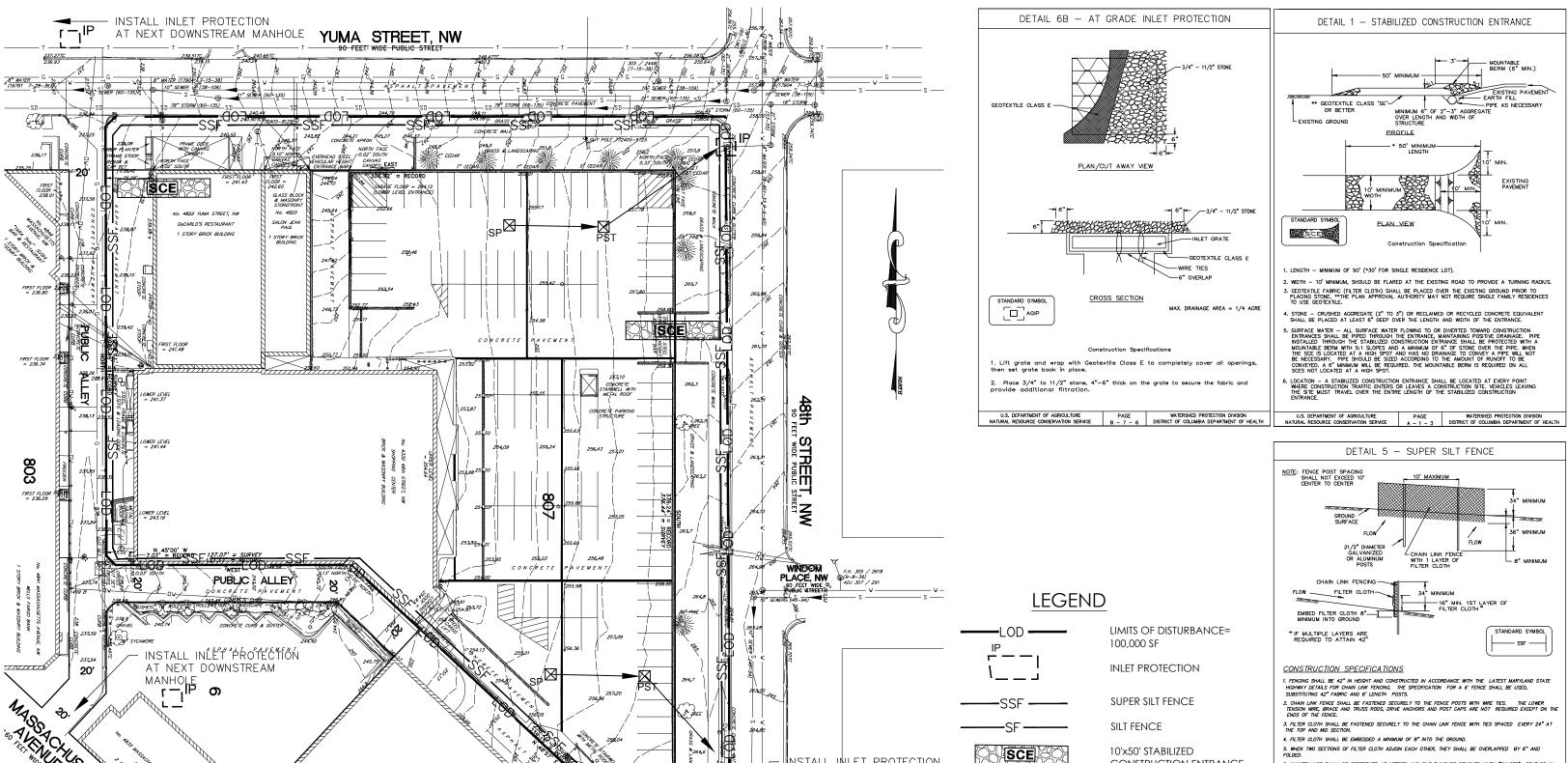
EXTENSIVE GREEN ROOF

INTENSIVE GREEN ROOF

LIMITS OF DISTURBANCE:
79,674 SF (PRIVATE SPACE)
+20,326 SF (PUBLIC SPACE)
=100,000 SF

DATE

DESIGN REVIEW SET 4330 48TH STREET, NW



- 50 LBS/IN (MIN.)

TENSILE MODULUS 20 LBS/IN (MIN.) TEST: ASTM D-4595

CONSTRUCTION ENTRANCE

POTABLE SEDIMENT TANK

SUMP PIT

GRAPHIC SCALE

(IN FEET)

PAGE WATERSHED PROTECTION DIVISION

B - 6 - 3 DISTRICT OF COLUMBIA DEPARTMENT OF HEALTH

CIV-04: EROSION & SEDIMENT CONTROL PLAN

NSTALL INLET PROTECTION AT NEXT DOWNSTREAM

MANHO<u>LE</u>

DATE