

BUILDING B





SWRv

<u> </u>		
Total Area =	222541	
Post-project Land Cover		SI
Major Substantial Improvement =	0	
Natural Cover =	0	
Compacted Cover =	0	
Impervious Cover =	129,424	
BMP Cover =	93,117	
Total Disturbed Area =	222,541	
SWRv =	21,141 CF	
	158,138 Gallons	

On-site Retention Achieved = **21,526 CF** 101.82 **161,018 Gallons**

SRC Eligibility = 2,880 Gallons

Storage Volume of BMP's = 38997.891 CF

WQTv= 8808.9 CF
65891 Gallons
Only if Site is in AWDZ

Remaining = 63010 Gallons

GREEN ROOF

Contributing Drainage Areas25000Natural Coversq ftCompacted Coversq ftImpervoius Cover25000 sq ftBMP Cover86931 sq ftRunoff15064.0 ft3 $Sv = SA X [(d x \eta_1) + (DL x \eta_2)]/12$ Sv = Storage Volume 28484.4 ft3

Green Roof Receive 100% Retention Value

 $Rv = 15064.0 \text{ ft}^3$ Rv = 112679 gallons

TREE PLANTING AND PRESERVATION $R_v(ft^3)$ # of newly planted trees # of trees preserved during construction Max. I Rv New Trees = 790 ft^3 Rv Preserved Trees = 0 ft^3 Rv New Trees = 5909.2 gallons Rv Preserved Trees = 0 gallons New Tree In order to receive retention value, the tree species planted must have an average matu ed then i=0 and a minimum caliper size of 1.5 inches- Bare root trees or seedlings don't qualify Existing Tree Preserved trees must be a species with an average mature spread of at least 35 feet. (a

ign storm volume in 48 hours wn (td)

BIORETENTION

Contributing Drainage Areas

Natural Cover
Compacted Cover
Impervious Cover
BMP Cover
Runoff
S480 sq ft
4890 sq ft
5498.0 ft³

 $Sv = SA_{bottom} \ x \ [(d_{media} \ x \ \eta_{media}) + (d_{gravel} \ x \ \eta_{gravel})] + (SA_{average} \ x \ d_{ponding})$

Sv = Storage Volume

Field verfied Infiltration rates (in/hr)

0 in/hr

Sv 10513.5 ft³ 78646.

60% RV Standard BR Underdrain + < 24" filter media 100% RV Enhanced BR Infiltrate in 72hr OR Underdrain +

Infiltratable Volume 0 CF

gallons Max. Rv eligible for di

1/2x(top

bottom area)

ter media + Sump

is Rv1.2"

 $RV_{Standard}$ 5498.0 ft^3 $RV_{Enhanced}$ 5498.0 ft^3

RV Standard 41125 gallons RV Enhanced 41125 gallons

BIORETENTION

Contributing Drainage Areas

Natural Cover
Compacted Cover
Impervious Cover
BMP Cover
Runoff

174.4 ft³

 $Sv = SA_{bottom} \ x \ \left[(d_{media} \ x \ \eta_{media}) + (d_{gravel} \ x \ \eta_{gravel}) \right] + (SA_{average} x \ d_{ponding})$

Sv = Storage Volume

Field verfied Infiltration rates (in/hr)

RV Standard

Sv 2786.4 ft³

60% RV Standard BR Underdrain + < 24" filter media
100% RV Enhanced BR Infiltrate in 72hr OR Underdrain +

0 CF
0 gallons

Max. Rv eligible for di

0 in/hr

1/2x(tor

20843.

 $RV_{Enhanced}$ 174.4 ft³ $RV_{Standard}$ 1305 gallons $RV_{Enhanced}$ 1305 gallons

BUILDING B

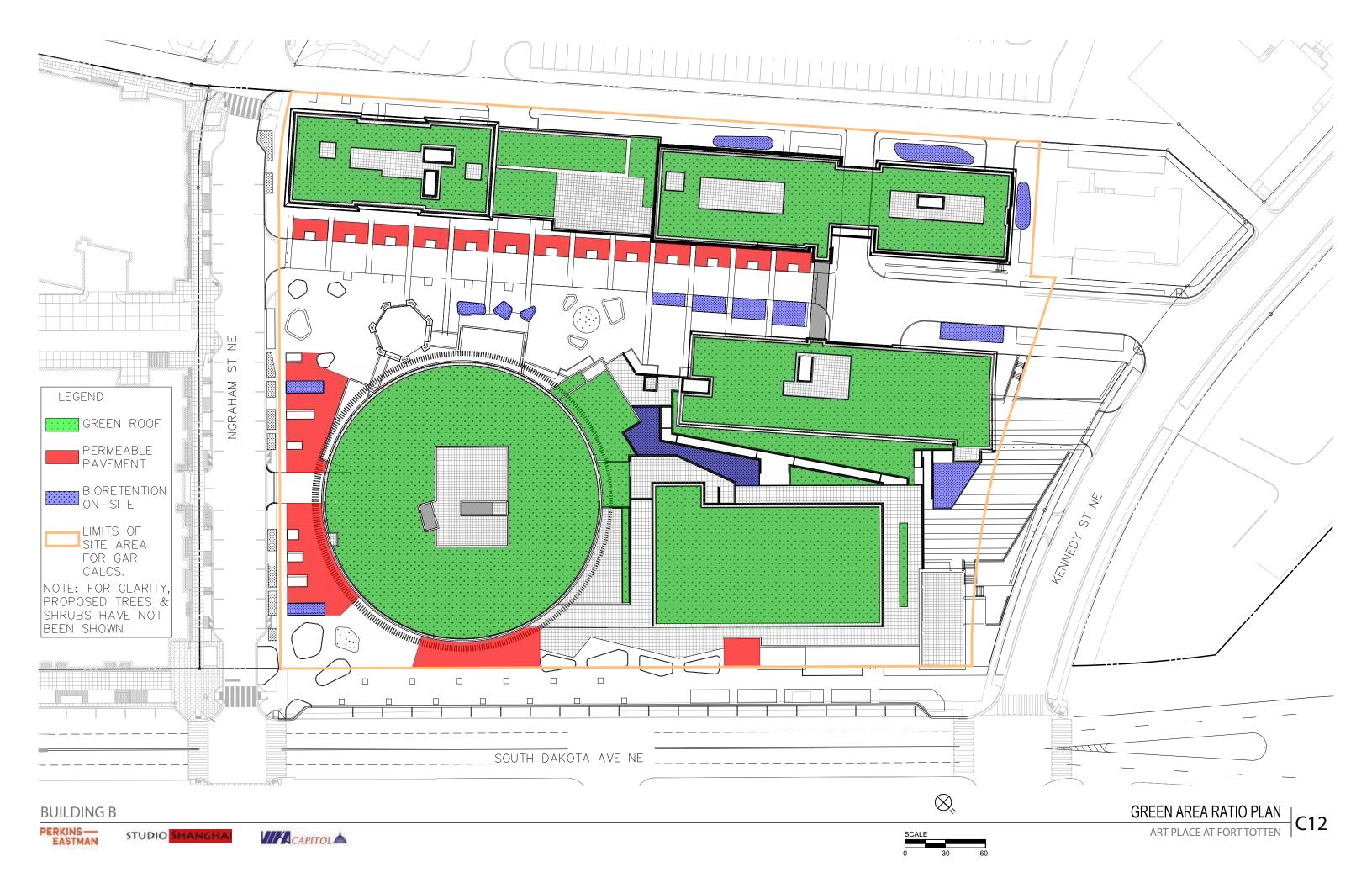








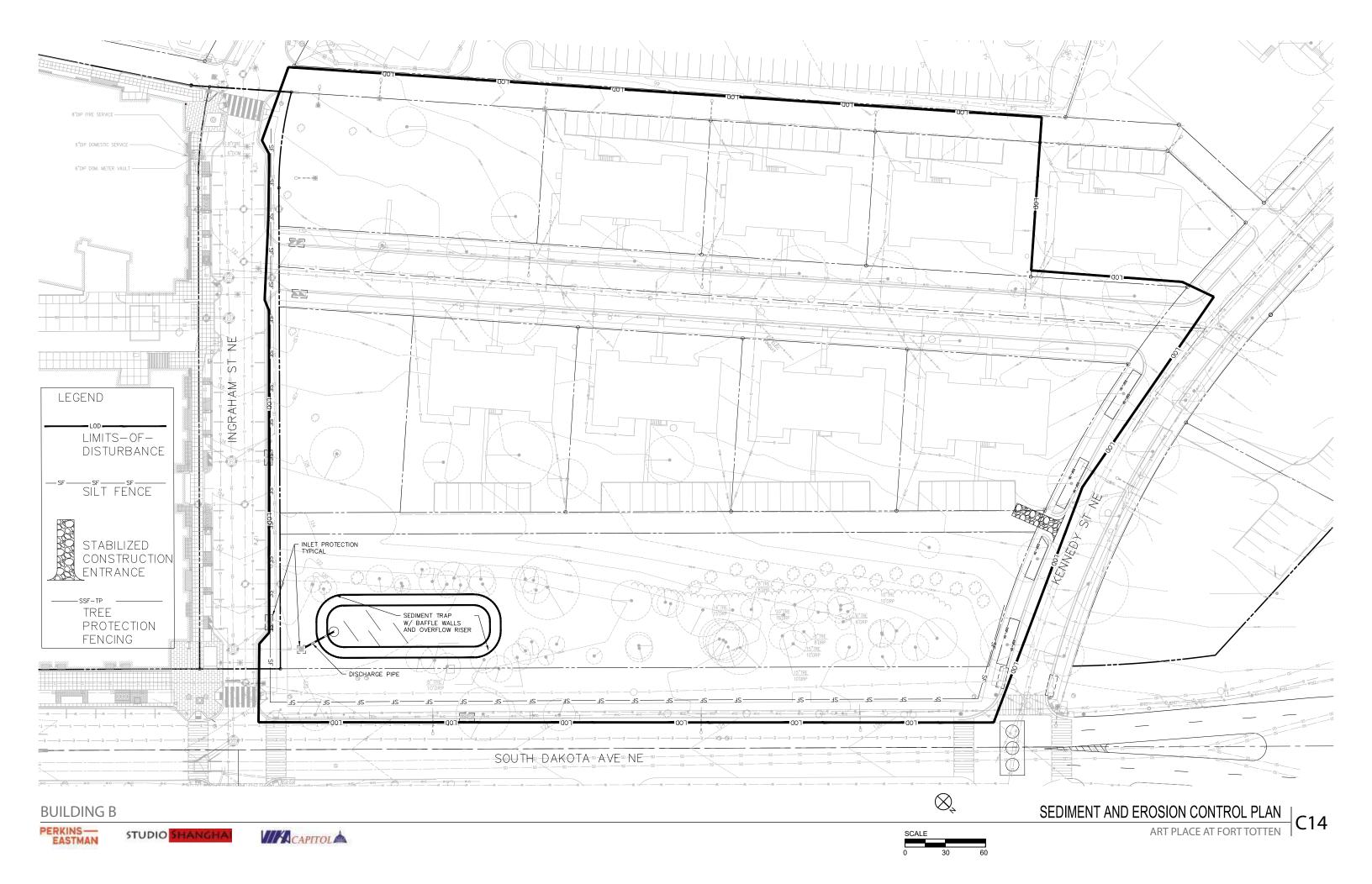
174.4 ft³



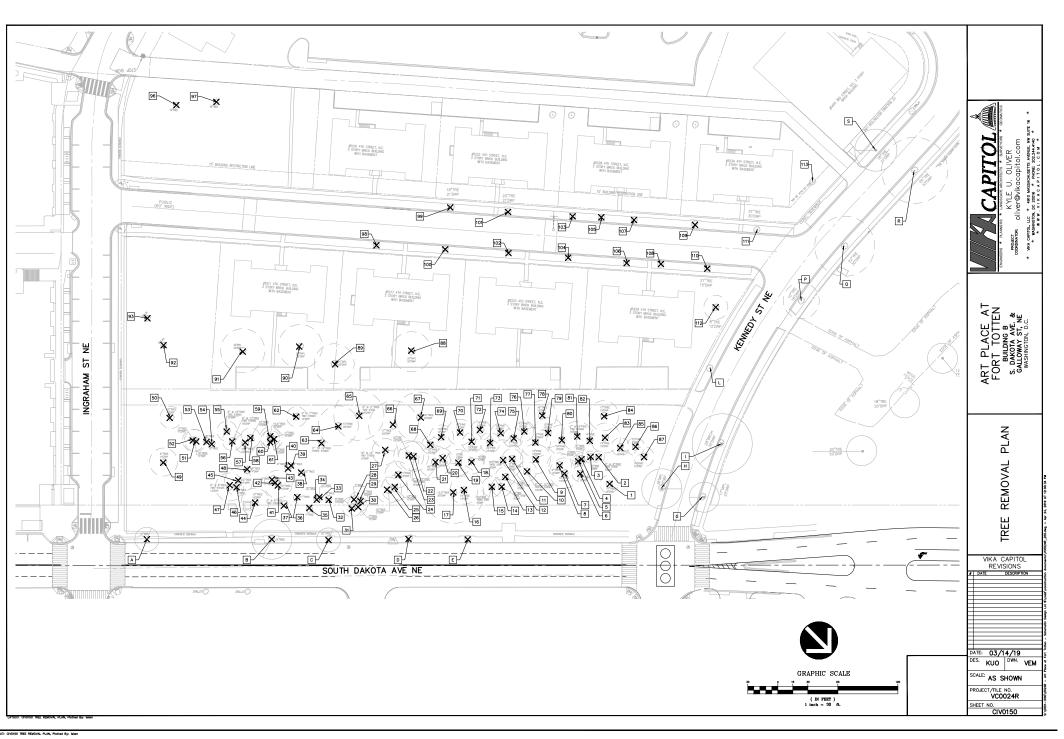
* *	* Add South Daligha Ava NE	S	Green Area Ratio Scoresheet Lot Zone District			
	Address South Dakota Ave NE	Squ: 3765 8		1-4,8	Lot &9 2,3,4,7	Zone District
	Other	Lot area (sf)	Minimum Score		Multiplier	GAR Score
	Lot size (enter this value first) * Landscape Elements	222,541	0.3		SCORE:	0.300
			Square Feet	Factor		Total
A	Landscaped areas (select one of the following for each	i area)	square feet			
1	Landscaped areas with a soil depth < 24"		square feet	0.30		-
2	Landscaped areas with a soil depth ≥ 24"		square feet	0.60		-
3	Bioretention facilities		4,181	0.40		1,672.4
В	Plantings (credit for plants in landscaped areas from S	ection A)	square feet		Native Bonus square feet	
1	Groundcovers, or other plants < 2' height	# of plants		0.20	# of plants	-
2	Plants ≥ 2' height at maturity - calculated at 9-sf per plant	1,800	16200	0.30		4,860.0
3	New trees with less than 40-foot canopy spread - calculated at 50 sq ft per tree	# of trees 79	3950	0.50	# of trees	1,975.0
4	New trees with 40-foot or greater canopy spread - calculated at 250 sq ft per tree	# of trees	0	0.60	# of trees	-
5	Preservation of existing tree 6" to 12" DBH - calculated at 250 sq ft per tree	# of trees	0	0.70	# of trees	-
6	Preservation of existing tree 12" to 18" DBH - calculated at 600 sq ft per tree	# of trees	0	0.70	# of trees	-
7	Preservation of existing trees 18" to 24" DBH - calculated at 1300 sq ft per tree	# of trees	0	0.70	# of trees	-
8	Preservation of existing trees 24" DBH or greater - calculated at 2000 sq ft per tree	# of trees	Ō	0.80	# of trees	-
9	Vegetated wall, plantings on a vertical surface		square feet	0.60	square feet	-
С	Vegetated or "green" roofs					
1	Over at least 2" and less than 8" of growth medium		square feet 86,931	0.60	square feet	52,158.6
2	Over at least 8" of growth medium		square feet 1,770	0.80	square feet	1,416.0
D	Permeable Paving***					
1	Permeable paving over 6" to 24" of soil or gravel		square feet 11,867	0.40		4,746.8
2	Permeable paving over at least 24" of soil or gravel		square feet	0.50		-
E	Other					
1	Enhanced tree growth systems***		square feet	0.40		-
2	Renewable energy generation		square feet	0.50		-
3	Approved water features		square feet	0.20		-
F	Bonuses	sub-total of sq ft =	124,899			
1	Native plant species		square feet 0	0.10		-
2	Landscaping in food cultivation		square feet	0.10		-
3	Harvested stormwater irrigation		square feet	0.10		-
*** Perm	eable paving and structural soil together may not qualify for more than one Total square footage o					66,829

BUILDING B









PERKINS— EASTMAN One Thomas Circle NW, Suite 200 ART PLACE AT FORT TOTTEN
S. DAKOTA AVE. & GALLOWAY ST. NE, WASHINGTON DC VOLUME ONE PROJECT No: 76380 TREE REMOVAL PLAN CIV0150

DATE: 03/14/19

APFT Tree Removal Tabulation - Site	APFT Tree Removal Tabulation - Site	APFT Tree Removal Tabulation - Site	
Tree Species DBH (in) Tree Special Removal Fee Sp. in Circ Notes Tree Sp. in Circ Notes Sp. in Circ Notes Sp. in Circ Notes Sp. in Circ Notes Sp. in Circ Sp. in Cir	Incorporation Tree \$55/in Circ Notes 18.84 No N/A 10 31.40 No N/A Multistem 6", 8" 10 31.40 No N/A Multistem 6", 8" 12 37.68 No N/A N/A 10 31.40 No N/A N/A 10 31.40 No N/A N/A 11 34.54 No N/A N/A 11 34.54 No N/A N/A 11 34.54 No N/A N/A 13 40.82 No N/A Multistem 9", 10" 14 43.96 Yes 52.417.80 Multistem 9", 11" 13 34.54 No N/A Multistem 9", 11" 14 33.64 No N/A Multistem 9", 11" 15 32.97 No N/A N/A 11 34.54 No N/A N/A 11 34.55 No N/A Multistem 5", 11" 18 56.52 Yes 53.108.60 Multistem 9", 11" 18 34.86 No N/A Multistem 9", 11" 17 18 37.68 No N/A Multistem 9", 11" 18 37.68 No N/A N/A 14 43.96 Yes 52.935.90 N/A 14 43.96 Yes 52.417.80 N/A 14 43.96 Yes 52.4	Tree B B I Tree Species OBH (in) (ircumference (in) (in)) Special Tree SpS/in Circ SpS/in Ci	TOTALIS ** ** ** ** ** ** ** ** ** ** ** ** **
1	15 47.10 Yes \$2,590.50 11 34.54 No N/A 13 40.82 No N/A 12 37.68 No N/A 16 50.24 Yes \$2,763.20 16 50.24 Yes \$2,763.20 16 50.24 Yes \$2,763.20 16 50.24 Yes \$2,763.20 17 50.24 Yes \$2,763.20 Multistem 7", 14" 18 43.96 Yes \$2,417.80 19 12 37.68 No N/A 10 43.96 Yes \$2,417.80 10 12 37.68 No N/A 11 43.96 Yes \$2,417.80 12 37.68 No N/A 13 43.96 Yes \$2,417.80 14 43.96 Yes \$2,417.80 15 57.22 Yes \$3,972.10 21 65.94 Yes \$3,972.10		Country The Morris & Owendolyn Ci. 1826 K Steet NW State 1400 Washington, DO 20006 Design Architect. The Morris & Owendolyn Ci. 1826 K Steet NW State 1400 Washington, DO 20006 Design Architect. Shanghai 20021; China Sha
Tree Species			Food Service Consultant Address Food Service Consultant Address Traffic Consultant Wells * Associates 1420 Spring Nil Road, Sale 610 Flynon, W. 22102 Emetage Consultant Emetage Consultant ABU Code Consultant ABU ABU ADDRESS ADDRES
28 87-92 No N/A N/A N/A N/A N/A Tree No Longer Exists N/A N/A N/A N/A N/A Tree No Longer Exists N/A			ART PLACE TO TTEN S. DAKE DESCRIPTION ART PLACE TO TTEN S. DAKOTA AVE. 8. GALLE WASHINGTON DC VOLUME ONE PROJECT NO: 76380 DRAWING TITLE TREE REMO' INVENTORY SCALE: As indicated CIVO155

LAYOUT: C