

SECTION

06

PUD OVERVIEW:

PUD DATA

ZONING DOCUMENTS

GAR CALCULATIONS

SUSTAINABILITY BENEFITS

LEED

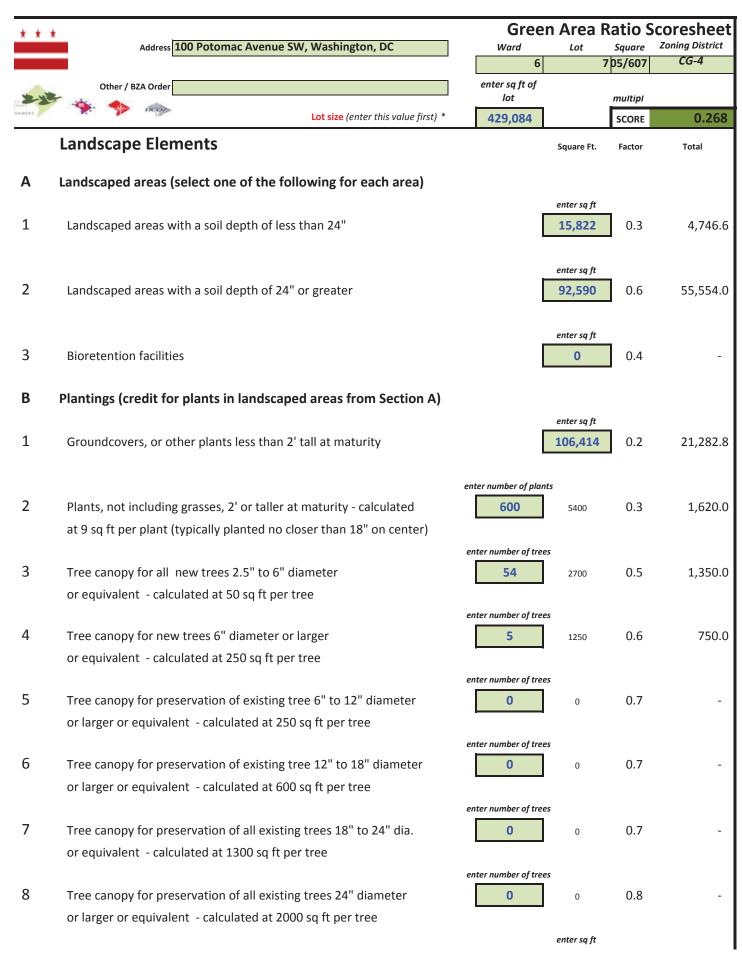
| 6.01 6.02 6.03 6.04 | PUD OVERVIEW PUD OVERVIEW GAR CALCULATION SPREADSHEET GAR CALCULATION PLAN |
|--|--|
| 6.05 6.06 6.07 6.08 6.09 6.10 | EXISTING ZONING MAP CONTEXT MAP EXISTING SITE SURVEY & SITE PLAN PUD SUBMISSION BOUNDARY LOT OCCUPANCY PLAN ZONING BUILDING HEIGHT |
| 6.11 6.12 6.13 | ENVIRONMENTAL BENEFITS NARRATIVE LEED GOLD SCORECARD GREEN ROOF & PV PANELS RENDERING |

6.14 SUSTAINABLE MATERIALS RENDERING

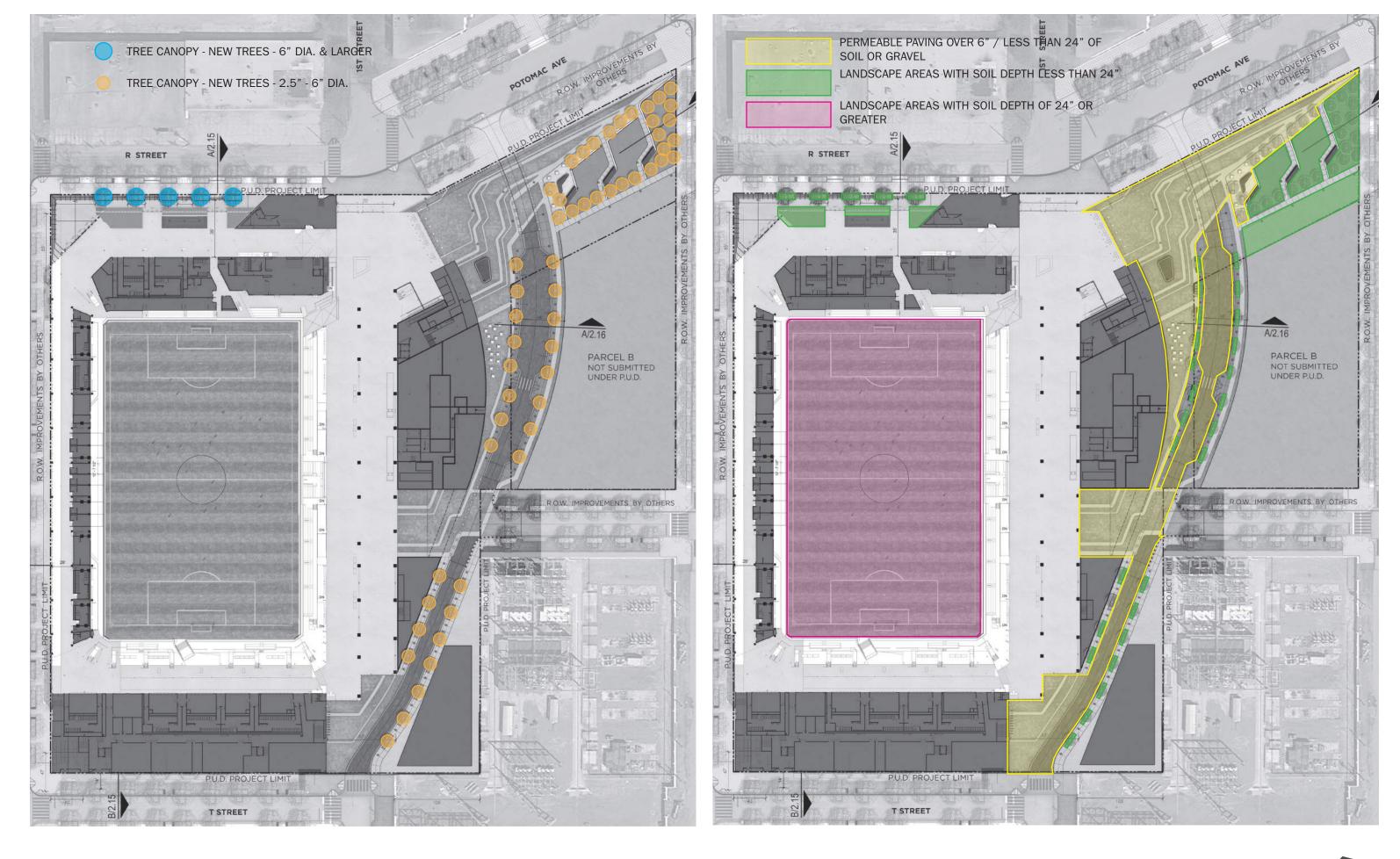
| CONSOLIDATED LOT – Z LOT A SQUARES 603S, 605, 607, 661, 661N, PART OF SQUARE 665 AND PARTS OF POTOMAC AVENUE S.W., R STREET S.W. AND | Allowed / Required | PROPOSED | |
|---|--|--|--|
| SQUARE 665 AND PARTS OF POTOMAC AVENUE S.W., R STREET S.W. AND S STREET S.W. | CG/C-R | | |
| SITE AREA (LOT A) | 429,084 SF | 429,084 SF | |
| GROSS FLOOR AREA (FAR) - COMMERCIAL | NONE REQUIRED | 403,130 SF | |
| FAR | 3.0 (MOR) - 4.0 (PUD) | .94 FAR | |
| BUILDING HEIGHT | 90 FEET (MOR) - 110 FEET (PUD) | 110 FEET | |
| LOT OCCUPANCY - COMMERCIAL | 100% | 50.05 % | |
| OPEN SPACE | AT LEAST 10% OF THE LOT AREA SHALL BE RESERVED AS PUBLIC OPEN SPACE | 22% | |
| COURTS | NONE REQUIRED; THEN ITS WIDTH MUST MEASURE 2.5" PER FOOT OF COURT HEIGHT AND NOT LESS THAN 6' (OPEN) OR 12' (CLOSED) | NONE REQUIRED | |
| REAR YARD | NONE REQUIRED | NONE REQUIRED | |
| SIDE YARD | NONE REQUIRED; IF PROVIDED, THEN MUST MEASURE 3" PER FOOT OF HEIGHT BUT NOT LESS THAN 8' | NONE REQUIRED | |
| PARKING | 1 FOR EACH 10 SEATS FOR THE FIRST 10,000 SEATS PLUS 1 PER 20 SEATS ABOVE THAT | PROVIDED OFF-SITE | |
| BICYCLE PARKING | 83 BICYCLES (PER LEED REQUIREMENTS) | 83 BICYCLES | |
| BICYCLE VALET PARKING | 150 BICYCLES (PER LEED REQUIREMENTS) | 190 BICYCLES | |
| LOADING RETAIL OR SERVICE LOADING BERTHS (12' x 30') LOADING BERTHS (12' x 55') LOADING PLATFORM (100 SF) LOADING PLATFORM (200 SF) SERVICE / DELIVERY (IN EASEMENT) | 1 REQUIRED 1 REQUIRED 1 REQUIRED 1 REQUIRED 1 REQUIRED | O PROVIDED O PROVIDED O PROVIDED O PROVIDED 2 PROVIDED | |
| GREEN AREA RATIO (GAR) | 0.2 | 0.268 | |

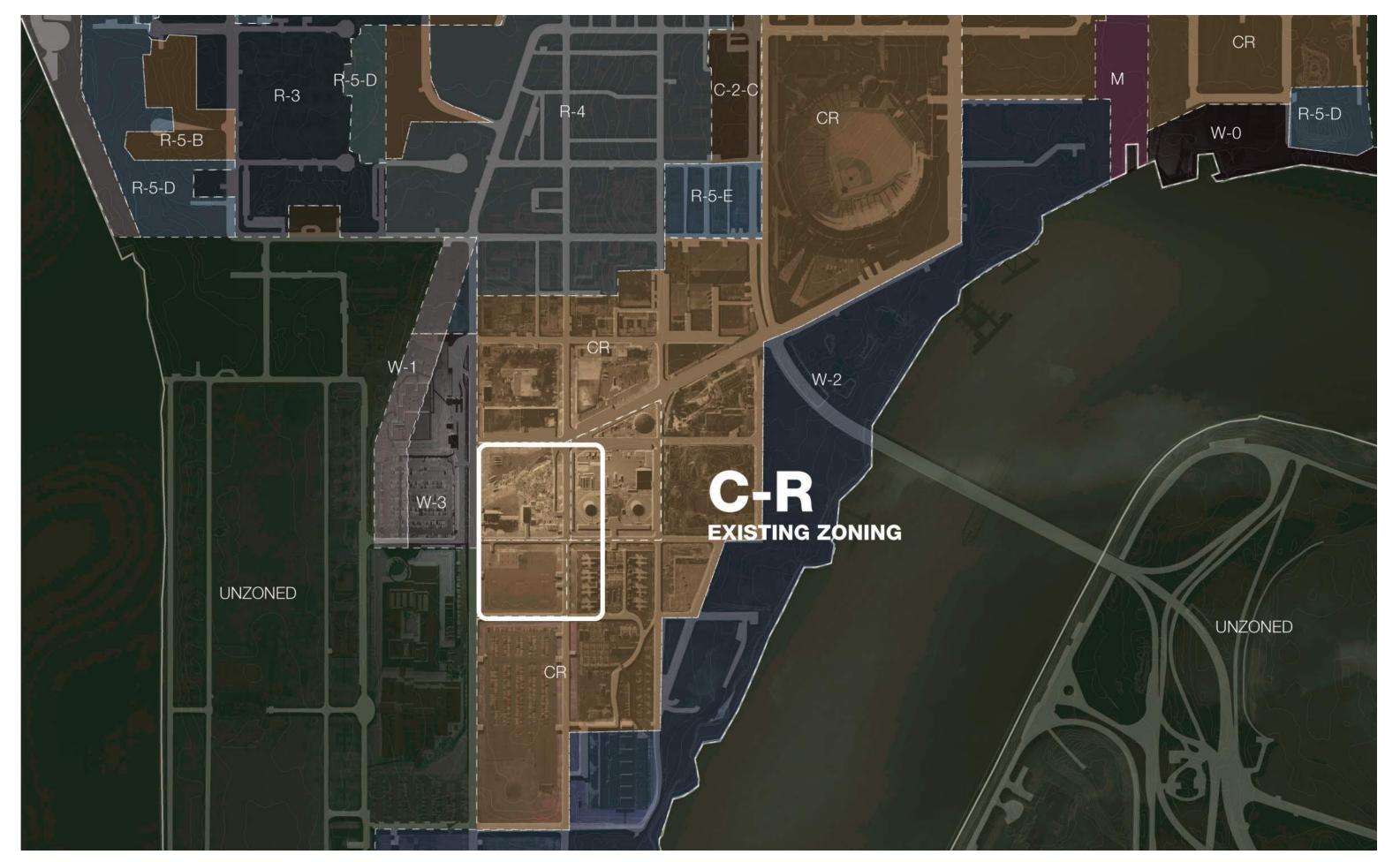


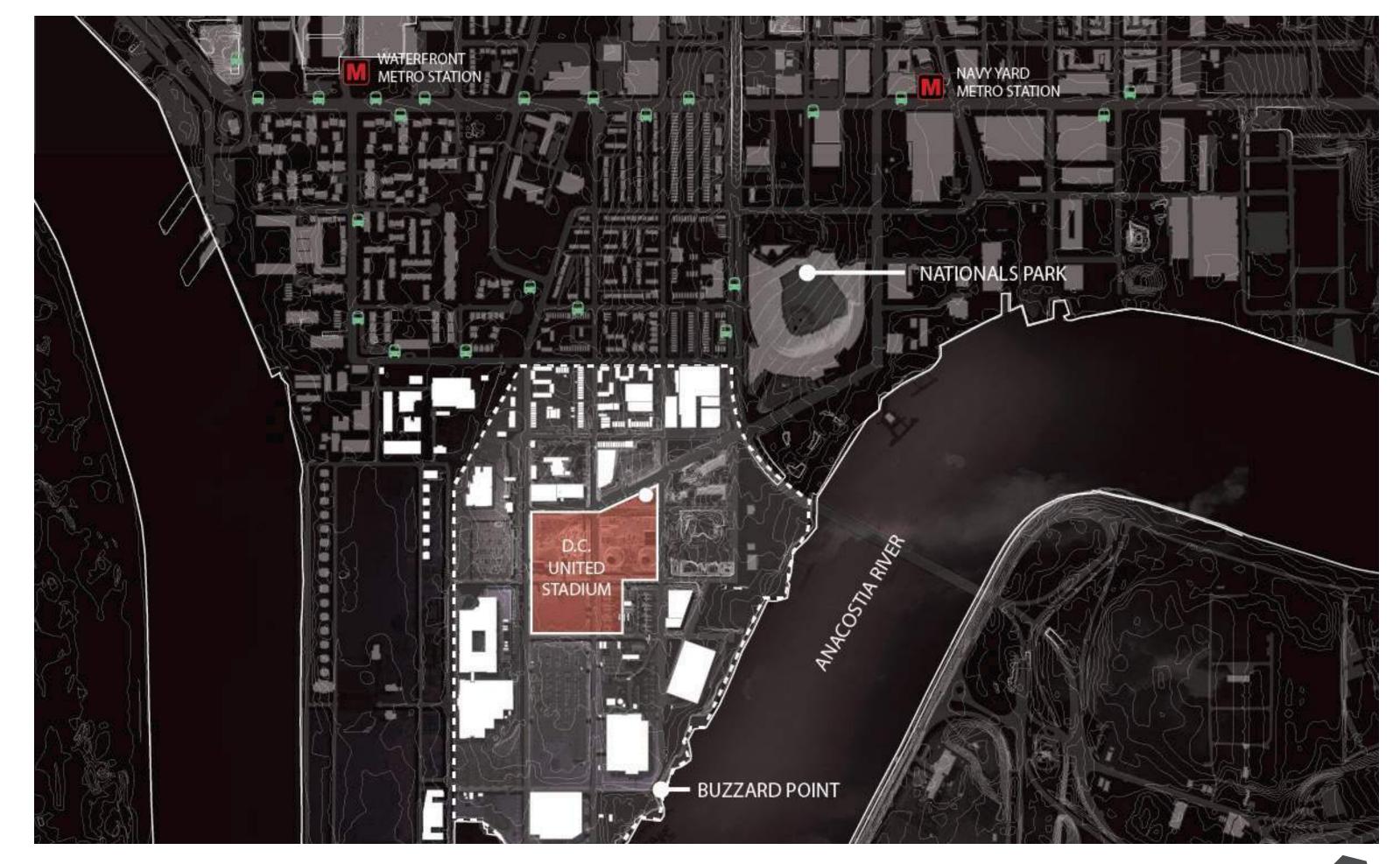
| GROSS FLOOR AREA TABULATION | | | | | |
|---|------------|----------------------------|------------|--|--|
| LEVEL | STADIUM | OFFICE / LEASABLE SPACE | TOTAL | | |
| SOUTH BASEMENT LEVEL | 34,808 SF | - | 34,808 SF | | |
| CONCOURSE (FIELD) LEVEL | 122,458 SF | RETAIL 28,316 SF | 150,775 SF | | |
| SOUTH OFFICE LEVEL | 6,323 SF | TEAM OFFICE 18,605 SF | 24,928 SF | | |
| EAST CLUB & NORTH SUITE LEVEL & SE CORNER 2ND LEVEL | 42,612 SF | LEASABLE 9,343 SF | 51,955 SF | | |
| SE CORNER 3RD LEVEL | | LEASABLE 9,343 SF | 9,343 SF | | |
| SUITE & PRESS LEVEL | 25,100 SF | - | 25,100 SF | | |
| NORTH MVP ROOF DECK | 5,763 SF | - | 5,763 SF | | |
| UPPER EAST CONCOURSE | 25,432 SF | - | 25,432 SF | | |
| STADIUM SEATING BOWL | 109,835 SF | - | 108,902 SF | | |
| NET | 372,331 SF | 65,607 SF | 437,938 SF | | |

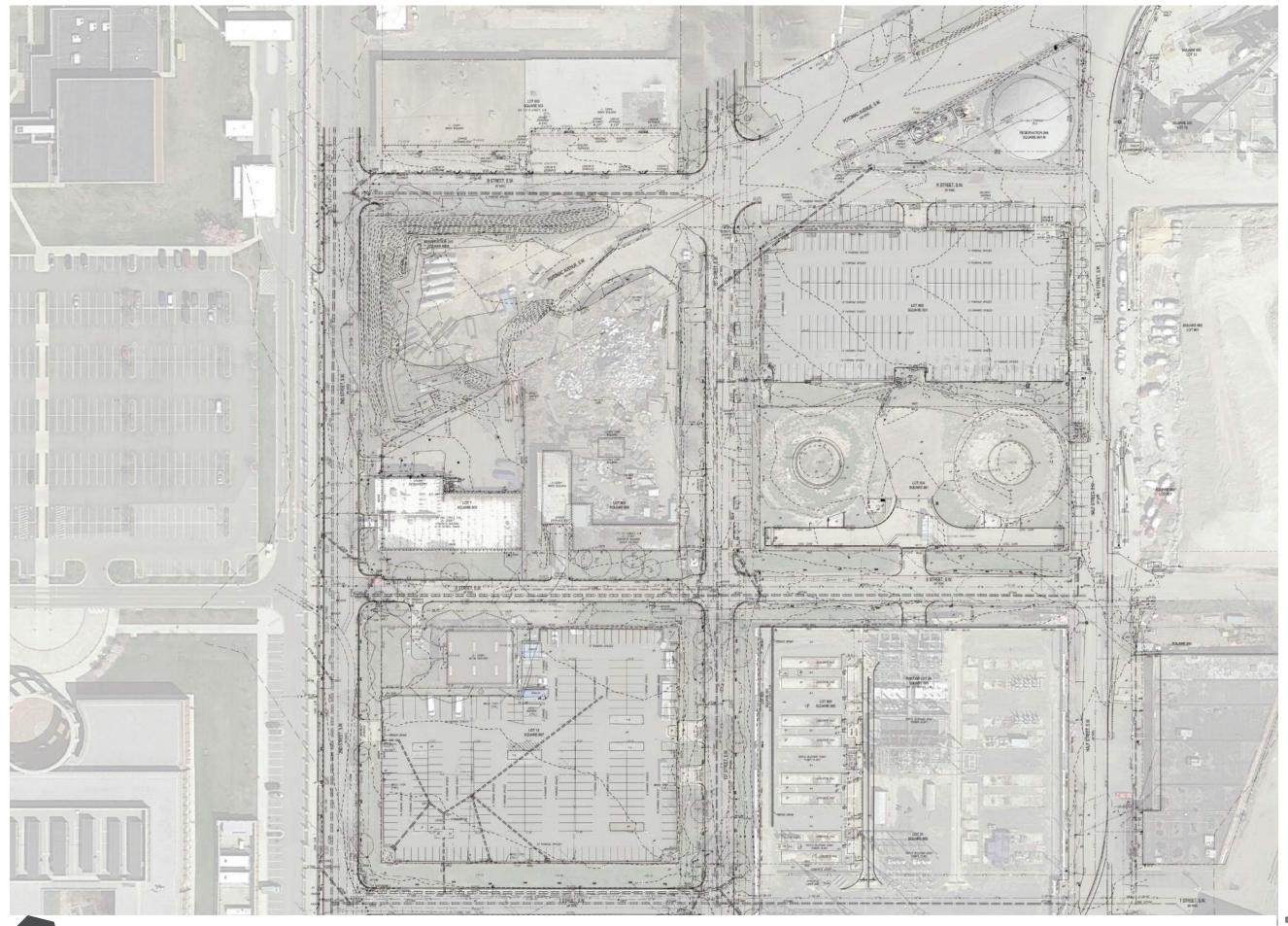


| 9 | Vegetated wall, plantings on a vertical surface | 0 0.6 | - |
|-------|--|--|--------------|
| С | Vegetated or "green" roofs | | |
| 1 | Over at least 2" and less than 8" of growth medium | o 0.6 | - |
| 2 | Over at least 8" of growth medium | 5,917 0.8 | 4,733.6 |
| D | Permeable Paving*** | | |
| 1 | Permeable paving over at least 6" and less than 24" of soil or gravel | 57,775 0.4 | 23,110.0 |
| 2 | Permeable paving over at least 24" of soil or gravel | enter sq ft 0 0.5 | - |
| Ε | Other | | |
| 1 | Enhanced tree growth systems*** | o 0.4 | - |
| 2 | Renewable energy generation | 2,900 0.5 | 1,450.0 |
| 3 | Approved water features | enter sq ft 0 0.2 | - |
| н | Bonuses | ub-total of sq ft = 290,768 | |
| 1 | Native plant species | 5,860 0.1 | 586.0 |
| 2 | Landscaping in food cultivation | enter sq ft 0 0.1 | - |
| 3 | Harvested stormwater irrigation | enter sq ft 0 0.1 Green Area Ratio numerator = | - 115,183 |
| Perme | eable paving and structural soil together may not qualify for more than one third o Total square footage of all permeable p | | 23,110 |









POPULOUS

Marshall Moya Design



DC UNITED SOCCER STADIUM

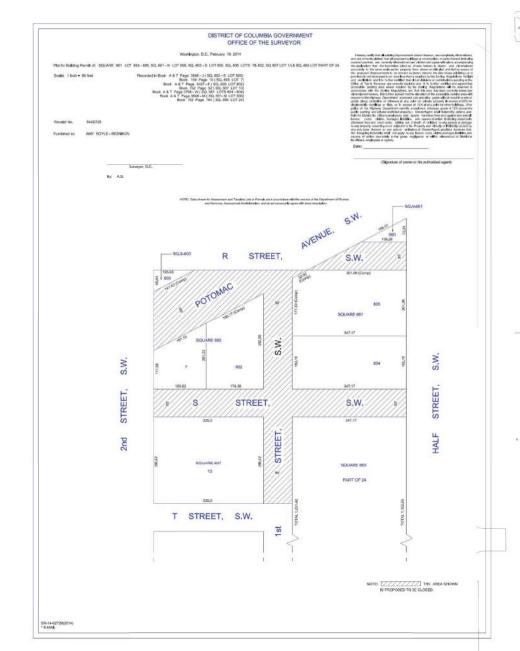
100 Potomac Avenue, SW Washington, DC 20024

PART A - EXTENT OF STADIUM PUD SUBMISSION

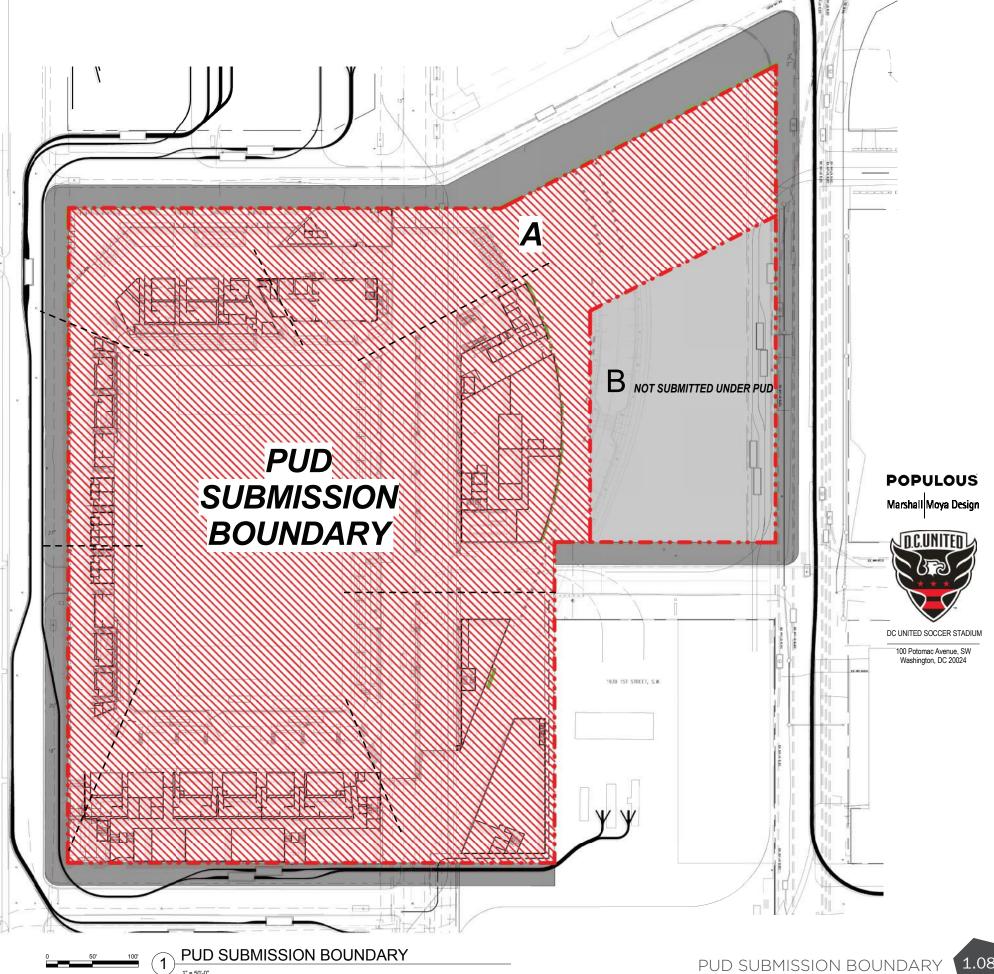
PART B - NOT PART OF STADIUM PUD SUBMISSION DESIGN INTENT SHOWN FOR REFERENCE ONLY

PUBLIC REALM - NOT PART OF PUD SUBMISSION, DESIGN INTENT SHOWN FOR REFERNCE ONLY

DISTRICT OF COLUMBIA RESPONSIBLE FOR DESIGN OF PUBLIC REALM



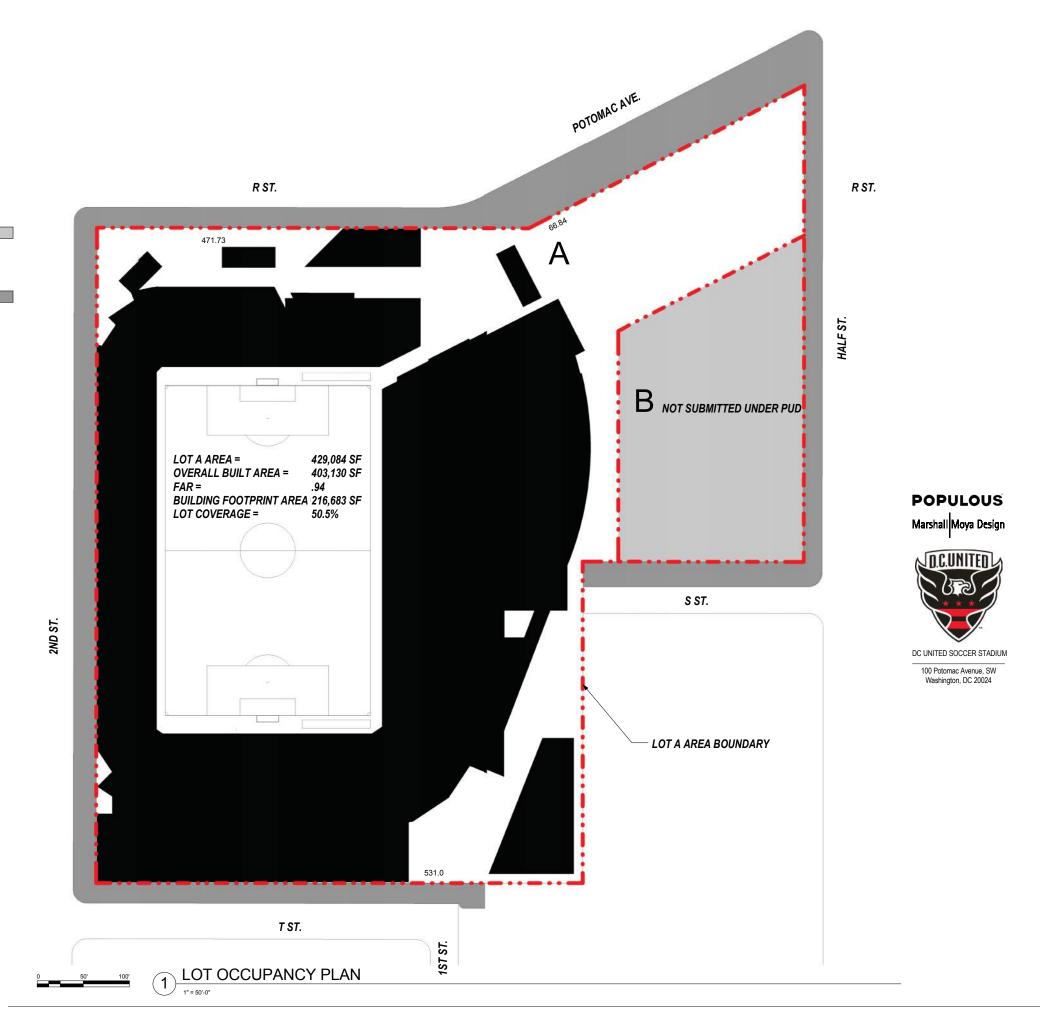
CONSOLIDATE PRPERTY SURVEY

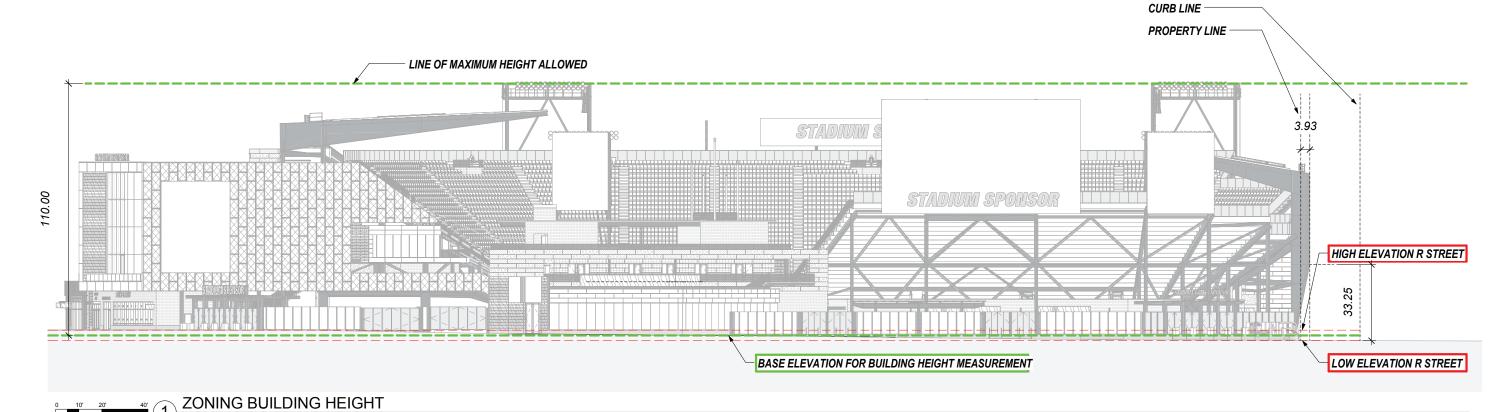


PART B - NOT PART OF STADIUM
PUD SUBMISSION, DESIGN INTENT
SHOWN FOR REFERENCE ONLY

PUBLIC REALM - NOT PART OF PUD SUBMISSION, DESIGN INTENT SHOWN FOR REFERENCE ONLY

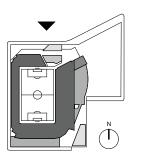
DISTRICT OF COLUMBIA RESPONSIBLE FOR DESIGN OF PUBLIC REALM





POTOMAC AND R STREET IS USED AS THE PRIMARY STREETS TO ESTABLISH THE BASE ELEVATION TO MEASURE THE OVERALL BUILDING HEIGHT

THE NORTH ELEVATION OF THE STADIUM FRONTS POTOMAC AND R STREET





100 Potomac Avenue, SW Washington, DC 20024

ENVIRONMENTAL BENEFITS

The D.C. United Stadium is pursuing Leadership in Energy and Environmental Design (LEED) Gold Certification. The project team will implement an integrated design approach in order to maximize LEED credit achievement. Key project • stakeholders and design and construction team members will be involved in the LEED process beginning in project planning and schematic design phases and will remain engaged through the certification process. The integrated team will address elements of the building's design from multiple angles including aesthetic, architectural, functional, high-performing systems, cost, operations, and sustainability. The project team will hold LEED specific integrated design coordination meetings throughout design and construction.

The project team will prioritize through design and specifications the following sustainability targets:

- Reduce development impact through site measures.
 - Address how the project site, which is infill, will be affected by a number of simultaneous developments and existing infrastructure, community services and public transportation options.
 - Implement site stormwater management through use of infiltration basin.
 - Reduce heat island effect through specification of highly reflective roofing material and areas of extensive to semi-intensive (by depth) green roof.
 - · Reduce heat island effect through specification of highly reflective site paving materials.
 - Demonstrate reduction in potable water use for landscape irrigation. Project goal (50% reduction over baseline) will be pursued through native and adaptive plant species selection. The project team

for landscape irrigation (to achieve 100% reduction).

- Demonstrate indoor water use reduction over baseline. Project goal (40%) will be pursued through low-flow plumbing fixtures and waterless urinals.
- Demonstrate savings on energy cost improvements against baseline via ASHRAE 90.1-2007 energy simulation. Project goal (20%) will be pursued through:
 - Optimized building envelope and associated assemblies
 - Energy efficient HVAC systems: high efficiency split system units (VRF), high efficiency boilers
 - Energy efficient lighting systems: LED building lighting, LED sports lighting, lighting control
 - On-site renewable energy: PV panels (project goal of 3500 sf) at entrance canopies
- practices. These materials may:

 - Be regionally manufactured and extracted (project goal 20% by cost)
 - Be certified by the Forest Stewardship Council (project goal 50% or 95% of new wood products by cost)

- will consider strategies to eliminate potable water use Provide enhanced indoor environmental quality to building users and visitors through:
 - Specification of building materials that are low- or no-emitting
 - Exceeding ASHRAE 62.1-2004 ventilation requirements (project goal greater than 30%)
 - Providing optimal thermal comfort by designing HVAC system to meet requirements of ASHRAE 55-2004
 - Incorporating innovative solutions to promote the concepts of sustainability and wellness in the built environment to building visitors and users through green education, active use of the building, and sustainable operations and maintenance strategies.

LEED credits deemed appropriate for the project that may carry additional cost will be evaluated by the project team. The design team and the construction manager/ general contractor will coordinate to generate a rough Specify building materials that demonstrate responsible order of magnitude estimate. Where applicable, a return on investment estimate may also be provided to the Owner • Contain recycled content (project goal 20% by for consideration to determine the payback period of a particular strategy.

> LEED is a process that is most successful when each team member is dedicated not only to the resulting LEED Certification but to the larger goal of developing an energy efficient, high-performing building that benefits its owners and occupants throughout its lifetime.



LEED 2009 for New Construction and Major Renovations

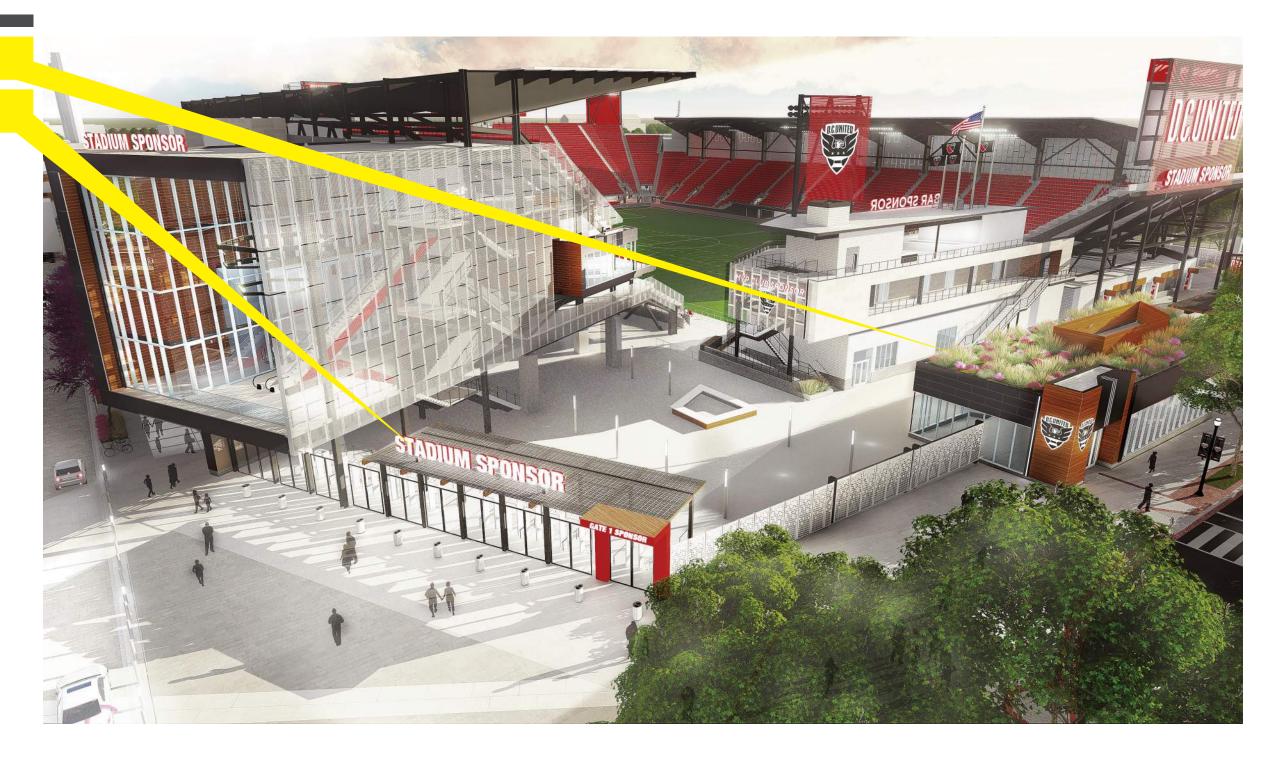
DC United Stadium

| PSOBC P | Project Ch | necklist | | | | | 01.12.2016 |
|-------------|-----------------|---|---------|-----------|--------------------------|--|-------------|
| | Sustainab | le Sites Possible Points: | 26 | | Materi | als and Resources, Continued | |
| Y ? N Pr | Prereg 1 Cor | nstruction Activity Pollution Prevention | | Y ? N | Credit 4 | Recycled Content | 1 to 2 |
| | | e Selection | 1 | 2 | Credit 5 | Regional Materials | 1 to 2 |
| 5 Cr | Credit 2 Dev | velopment Density and Community Connectivity | 5 | 1 | Credit 6 | Rapidly Renewable Materials | 1 |
| 1 Cı | Credit 3 Bro | ownfield Redevelopment | 1 | 1 | Credit 7 | Certified Wood | 1 |
| 6 Cr | redit 4.1 Alt | ernative Transportation—Public Transportation Access | 6 | | - | | |
| 1 Cı | Credit 4.2 Alt | ernative Transportation—Bicycle Storage and Changing Rooms | 1 | 10 4 1 | Indoor | Environmental Quality Possible Points | s: 15 |
| 3 Cr | Credit 4.3 Alt | ernative Transportation—Low-Emitting and Fuel-Efficient Vehicle | es 3 | | | | |
| 2 Cr | Credit 4.4 Alt | ernative Transportation—Parking Capacity | 2 | Υ | Prereq 1 | Minimum Indoor Air Quality Performance | |
| 1 Cr | Credit 5.1 Site | e Development—Protect or Restore Habitat | 1 | Υ | Prereq 2 | Environmental Tobacco Smoke (ETS) Control | |
| 1 Cr | | e Development—Maximize Open Space | 1 | 1 | Credit 1 | Outdoor Air Delivery Monitoring | 1 |
| 1 Cı | | ormwater Design—Quantity Control | 1 | 1 | Credit 2 | Increased Ventilation | 1 |
| | | ormwater Design—Quality Control | 1 | 1 | Credit 3.1 | Construction IAQ Management Plan—During Construction | 1 |
| | | at Island Effect—Non-roof | 1 | 1 | Credit 3.2 | , , | 1 |
| - | | at Island Effect—Roof | 1 | 1 | Credit 4.1 | Low-Emitting Materials—Adhesives and Sealants | 1 |
| 1 C | Credit 8 Lig | ht Pollution Reduction | 1 | 1 | Credit 4.2 | 3 | 1 |
| | M · Ecc | | 10 | 1 | Credit 4.3 | 3 , | 1 |
| 8 2 V | Water Eff | iciency Possible Points: | 10 | 1 | Credit 4.4 | Low-Emitting Materials—Composite Wood and Agrifiber Products | 1 |
| | | . II D I .: 200/ D I .: | | 1 | Credit 5 | Indoor Chemical and Pollutant Source Control | 1 |
| | • | ater Use Reduction—20% Reduction | 2.4 | 1 | Credit 6.1 | Controllability of Systems—Lighting | 1 |
| | | ater Efficient Landscaping | 2 to 4 | 1 | Credit 6.2 | | 1 |
| | | novative Wastewater Technologies Ater Use Reduction | 2 | 1 | Credit 7.1 | Thermal Comfort—Design Thermal Comfort—Verification | 1 |
| 4 | Credit 3 Wa | ittel Ose Reduction | 2 to 4 | 1 | Credit 7.2 Credit 8.1 | Daylight and Views—Daylight | 1 |
| 11 15 0 F | Energy an | nd Atmosphere Possible Points: | 35 | 1 | - | Daylight and Views—Views Daylight and Views—Views | 1 |
| 11 13 7 | Lifeigy and | id Acmosphere rounts. | 33 | | credit 0.2 | Daylight and views views | ' |
| Y Pr | Prereq 1 Fur | ndamental Commissioning of Building Energy Systems | | 6 | Innova | tion and Design Process Possible Points | s: 6 |
| | | nimum Energy Performance | | | | | |
| | | ndamental Refrigerant Management | | 1 | - | Innovation in Design: Green Education, Active Occupants | 1 |
| | • | timize Energy Performance | 1 to 19 | 1 | - | Innovation in Design: Green Cleaning Policy and IPM Plan | 1 |
| | | -Site Renewable Energy | 1 to 7 | 1 | Credit 1.3 | 3 | 1 |
| | | hanced Commissioning | 2 | 1 | Credit 1.4 | Innovation in Design: EP | 1 |
| | | hanced Refrigerant Management | 2 | 1 | Credit 1.5 | Innovation in Design: EP | 1 |
| | _ | asurement and Verification | 3 | 1 | Credit 2 | LEED Accredited Professional | 1 |
| 2 Cr | Credit 6 Gre | een Power | 2 | 4 2 4 | Dogion | 221 Priority Crodits | 4 |
| 7 7 1 | Materials | and Resources Possible Points: | 14 | 1 Z 1 | Region | nal Priority Credits Possible Point | .S: 4 |
| , , , | nacer rais | and resources | 17 | 1 | Credit 1 1 | Regional Priority: SSc6.1 Stormwater - quantity control | 1 |
| Y | Prereg 1 Sto | orage and Collection of Recyclables | | 1 | - | Regional Priority: EAc2 On-Site Renewable Energy | 1 |
| | | ilding Reuse—Maintain Existing Walls, Floors, and Roof | 1 to 3 | 1 | Credit 1.3 | | 1 |
| | | ilding Reuse—Maintain 50% of Interior Non-Structural Elements | 1 | 1 | | Regional Priority: EAc1 Optimize Energy Performance 40% | 1 |
| | | nstruction Waste Management | 1 to 2 | | | . 5 · ···· · · · · · · · · · · · · · · · | • |
| | | terials Reuse | 1 to 2 | 60 31 19 | Total | Possible Point | s: 110 |
| | | | | | | 40 to 49 points Silver 50 to 59 points Gold 60 to 79 points Platinum 80 to 110 | |

GREEN ROOF & PV PANELS

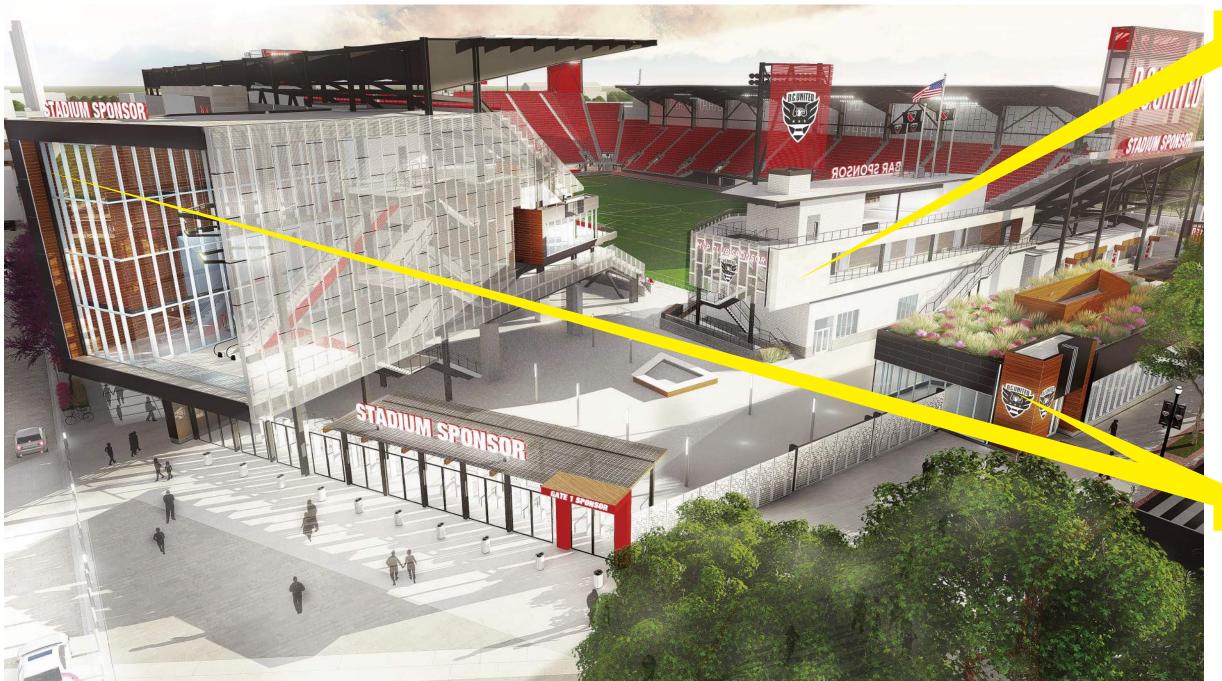
GREEN ROOF

PV PANELS



SUSTAINABLE MATERIALS

TAKTL CONCRETE PANEL



PRODEMA