CONTEXT AND PLANNING PRINCIPLES
Gymnasium Princeton University.
COPE & STEWARDSON, 1903
SUSTAINABILITY ETHOS
RESOURCE CONSERVATION

ADAPTIVE REUSE OF EXISTING DILLON GYM MINIMIZES NEW CONSTRUCTION

SELECTIVE REUSE OF SALVAGED STONE EXTERIOR WALLS AND WOOD SQUASH COURT WALLS

RESTORATION OF EXISTING DILLON FACADE
BIOPHILIC DESIGN + ENHANCING WELLNESS + CARBON MITIGATION

ENGINEERED NATURAL VENTILATION AT ADDITION + RELAXED TEMPERATURE AND HUMIDITY SETPOINTS

MASS TIMBER ROOF STRUCTURE AT ADDITION

VIEWS TO LANDSCAPE FROM FITNESS SPACES

PASSIVE SOLAR CONTROL
STORMWATER MANAGEMENT

GREEN ROOFS ON NEW BUILDING AND EXISTING BUILDING RETROFIT

REDUCED IMPERVIOUS SURFACE

PERVIOUS PAVING AND PLANTED SWALES
BUILDING PROGRAM
### General Fitness
- PAW/Circuit Training: 2,100 ASF
- Functional Fitness: 2,000 ASF

### Cardio
- Stretching: 1,000 ASF
- Powerlifting: 1,000 ASF

### Strength & Conditioning
- 24,700 ASF

### Group Fitness/Multi-Purpose
- Spin Studio: 1,300 ASF
- Yoga Studio: 1,200 ASF
- MP Studio: 1,200 ASF
- FREE zone

### Lobby & Social
- Lobby Space: 1,600 ASF
- Social Space: 1,600 ASF
- + 300sf Ops Office

### Additional Areas
- Storage: 2500 ASF
- Golf Simulator: 1300 ASF

Note: Relocated program due to Squash Court renovation
20% Accessibility in Existing Condition
LANDSCAPE DESIGN
BIKE PARKING

CURRENT BIKE PARKING SPACES
@ EXISTING NORTH END OF DILLON TO REMAIN
(NOT SHOWN ON PLAN):
40 TOTAL
(20 BIKE RACKS)

PROPOSED NEW BIKE PARKING SPACES:
60 TOTAL
(30 BIKE RACKS)

TOTAL BIKE PARKING SPACES FOR
DILLON GYM USER:
100 TOTAL
(50 BIKE RACKS)
TREE REMOVAL PLAN

TREES OVER 8" DBH TO BE REMOVED: 13
TREES TO BE PLANTED: 37
TREE PLANTING - 6 SPECIMEN TREES
TOTAL: 37

SPECIMEN TREE

Liquiçámbor styraciflua 'Rotundifolia'
SWEET GUM (NATIVE)

Nyssa sylvatica
BLACK GUM / SOUR GUM (NATIVE)

Liriodendron tulipifera
TULIP POPLAR (NATIVE)
TREE PLANTING - 11 BOSQUE + 17 FLOWERING TREES
TOTAL : 37

- **BOSQUE**
  - Ginkgo biloba
- **FLOWERING TREE**
  - Prunus subhirtella 'Pendula'
  - Cornus florida 'Cherokee Brave'
  - Magnolia virginiana
- **GINKGO (NOT NATIVE)**
- **WEPPING HIGAN CHERRY (NOT NATIVE)**
- **CHEROKEE BRAVE DOGWOOD (NATIVE)**
- **EASTERN REDBUD (NATIVE)**
- **FLOWERING DOGWOOD (NATIVE)**
- **SWEETBAY MAGNOLIA (NATIVE)**
SHRUB PLANTING

- Hamamelis x intermedia
  - WICH HAZEL (NOT NATIVE)
- Ilex verticillata 'Winter Red'
  - WINTERBERRY (NATIVE)
- Cephalanthus occidentalis
  - BUTTONBUSH (NATIVE)
- Hydrangea quercifolia
  - GINKLEAF HYDRANGEA (NATIVE)
- Aronia arbutifolia
  - RED CHONEBERRY (NATIVE)
- Cleyera japonica
  - SWEET PEPPERBUSH (NATIVE)
GROUNDCOVER PLANTING

- Waldsteinia fragarioides (Barren Strawberry, Native)
- Pachysandra procumbens (Allegheny Spurge, Native)
- Polygonatum biflorum (Solomon's Seal, Native)
- Asarum canadense (Wild Ginger, Native)
- Cornus canadensis (Creeping Dogwood, Native)
- Gaultheria procumbens (Wintergreen, Native)
- Carex siccata (Lowland Sedge, Native)
- Filareia cicutaria (Foam Flower, Native)
- Thelypteris noveboracensis var. americana (New York Fern, Native)
INTENSIVE GREEN ROOF PLANTING

3 FLOWERING TREES @ LEVEL A

TOTAL: 37

FLOWERING TREE

- **Magnolia stellata**  
  *STAR MAGNOLIA (NOT NATIVE)*

- **Magnolia × soulangiana**  
  *SAUER MAGNOLIA (NOT NATIVE)*

- **Asclepias tuberosa**  
  *BUTTERFLY WEED (NATIVE)*

- **Baptisia alba**  
  *WHITE WILD INDIGO (NATIVE)*

- **Liatris microcephala**  
  *DWARF BLAZING STAR (NATIVE)*

- **Sporobolus heterolepis**  
  *PRAIRIE DROPSEED (NATIVE)*

- **Koelreuteria macrantha**  
  *PRAIRIE JUNEGRASS (NATIVE)*

- **Bouteloua curtipendula**  
  *SIDEOATS GRAMA (NATIVE)*
STORMWATER DESIGN
EXISTING WATER QUALITY
- No existing water quality measures

PROPOSED WATER QUALITY
- Porous Pavers
  - Green Roofs
  - Grass Swale

EXISTING GROUNDWATER RECHARGE
- No existing groundwater recharge measures

PROPOSED GROUNDWATER RECHARGE
- Infiltration Trenches
  - 5x increase in site area recharged

EXISTING WATER QUANTITY
- No existing water quantity measures

PROPOSED WATER QUANTITY
- Decrease in impervious coverage
  - The project was designed to hold and infiltrate 90% of annual storm events on-site
BUILDING CHARACTER AND MATERIALS
RENOVATION
Portal windows

NEW ADDITION
Panoramic view
Range of exterior stainless steel finish to be refined

Range of exterior copper finish to be refined

Range of exterior brick tone to be refined in further mockups
**PROPOSED SIGNAGE AT ENTRY PLAZA**

1. **MONUMENT SIGN (PRIMARY):** 27 SF MONUMENT FACE AREA, 6 SF AREA OF LETTERING AS SHOWN

2. **SIGNAGE AT ENTRY (SECONDARY):** 5 SF AREA OF LETTERING AS SHOWN

- SAMPLE DONOR NAME
- RECREATION & WELLNESS CENTER

- PRINTED LETTERS ON STAINLESS STEEL PLATE
- 3/4" ACRYLIC LETTERS MOUNTED TO GLASS W/ VHB TAPE / SILICONE