



NASSAU COMMUNITY COLLEGE
DESIGN GUIDELINES

MISSION STATEMENT & OVERVIEW

Mission:

The intent of the Design Guidelines is to establish, document, and reinforce NCC's brand identity and FFE preferences through a selection of both interior and exterior materials. They are a guide to the application of a consistent design language across diverse campus spaces and varying scales of intervention.

Interior Guidelines Overview:

The Interior Design Guidelines section covers a selection of room typologies with curated finish palettes and detailed specification section. The room typologies illustrate flexibility and choice within the guidelines specifications. All materials were uniquely selected to respond to the use and need of each space type and to reinforce NCC's brand.

Exterior Guidelines Overview:

In aligning with Nassau Community College's commitment to sustainability, the Exterior Design Guidelines emphasize strategies that enhance the environmental performance of the campus while accommodating future needs and capital improvement priorities. The Exterior Guidelines section covers a range of landscape and urban design as well as networked infrastructure strategies such as integrating native landscaping for biodiversity and permeable surfaces for enhanced stormwater management, phasing out the lighting palette to include energy-efficient LED lighting, and standardizing the urban furniture and accessories palette to unify the campus experience.

Future considerations, including solar energy and electrical power generation opportunities, are also highlighted in narrative recommendations throughout the exterior guidelines. This includes the potential for NCC to introduce solar canopies, coupling shading strategies with energy generation, and expanding EV charging opportunities across campus parking lots for students and faculty/staff. While such elements are not specified in the division tables, incorporating solar infrastructure, for instance, holds promise in reducing energy costs and carbon footprint, and its addition would be a significant step toward a cleaner energy profile for the campus.

These guidelines thus serve as a flexible framework to support NCC's design aesthetic and sustainability goals now, while remaining adaptable to future considerations across campus-wide pursuits.

DESIGN GUIDELINES SUMMARY

Purpose:

NCC's Design Guidelines are a tool for architects, interior, landscape, and urban designers, as well as the NCC facilities, operations, and maintenance teams working to enhance the campus through a unified, coherent vision. The guidelines serve as a foundation for the development of campus design over the coming years and should be used as a tool to guide decision-making across a range of capital improvement projects and sustainability-centered efforts.

Goals:

- To improve the efficiency of NCC's design process and specification selection across interior and exterior spaces.
- To streamline the University's process in working on future renovation, rehabilitation, and new-build projects with various design consultants, by defining consistent guidelines and context-specific recommendations across design conditions and projects.
- To reinforce NCC's brand identity by specifying curated products that are code compliant and consider various user group needs and overarching goals.
- Provide for better project budget control.
- To create an empowering, enjoyable, functional, maintainable campus.

How to Use the Guidelines:

- The Table of Contents shall serve as the starting point for navigating the Design Guidelines.
- The document is divided into two main sections: Interior Guidelines & Exterior Guidelines
 - Interior Guidelines
 - Room Typologies/Room Finishes
 - Interior Materials/Specifications
 - Exterior Guidelines
 - Space Typologies/Exterior Finishes
 - Exterior Materials/Specifications
- The Interior & Exterior Design Guidelines section features an overall palette for each space category, followed by the different room/space typologies.
- Each room/space typology page provides an overall axon view of the space with the material/product callouts as well as finish related notes and general guideline notes.
- The Specifications section provides all the product, finish or feature information along with performance requirements.

DESIGN GUIDELINES SUMMARY

How to Navigate the Document:

Please use the following to navigate the document:

- Hyperlinks found in the Table of Contents. These will take you directly to the different sections, room or space typologies and specifications.
- Hyperlink found in NCC's logo at the bottom right of the slides. This will help you return to the Table of Contents.

**This document is considered a working document, meaning included material is meant to be seasonally updated by the NCC team to reflect changing requirements, new findings, and any manufacturer updates (e.g. product discontinued, distinct color range, new code compliance requirement).*

TABLE OF CONTENTS

DESIGN GUIDELINES

INTERIOR DESIGN GUIDELINES

- ROOM TYPOLOGIES
- INTERIOR MATERIALS SPECIFICATIONS

EXTERIOR DESIGN GUIDELINES

- SPATIAL TYPOLOGIES
- EXTERIOR MATERIALS SPECIFICATIONS

INTERIOR DESIGN GUIDELINES

TABLE OF CONTENTS

ROOM TYPOLOGIES / ROOM FINISHES

PUBLIC SPACES

- OPEN COLLABORATION LARGE
- OPEN COLLABORATION SMALL
- OPEN COLLABORATION CORRIDOR
- RESTROOMS

LEARNING

- CLASSROOM - HIGH FLEX
- CLASSROOM - MEDIUM
- STUDY LOUNGE
- COMPUTER LAB
- LABORATORIES
- LECTURE HALL

ADMINISTRATION

- TYPICAL ENCLOSED OFFICE - LARGE
- TYPICAL ENCLOSED OFFICE - SMALL
- OPEN WORKSTATIONS
- LARGE CONFERENCE ROOM
- SMALL CONFERENCE ROOM
- STAFF LOUNGE / PANTRY

TABLE OF CONTENTS

INTERIOR MATERIALS SPECIFICATIONS

DIVISION 06 - WOOD, PLASTICS, & COMPOSITES

- MILLWORK HARDWARE
- HIGH PRESSURE LAMINATE

DIVISION 08 - OPENINGS

OPENINGS

- ASSEMBLY AREA DOORS
- CLASSROOM DOORS
- CORRIDOR DOORS
- EMERGENCY EXIT DOORS
- HIGH SECURITY DATA, ASSET AND LAB DOORS
- SECURE MAIN ENTRY DOORS
- UNRESTRICTED MAIN ENTRY DOORS
- STAIRWELL DOORS

DIVISION 09 - FINISHES

CEILINGS

- SOUND ABSORBING CEILING UNITS
- ACOUSTIC PANEL CEILINGS
- GYPSUM BOARD CEILING
- SPRAYED ACOUSTIC INSULATION

WALLS

- TILING
- INTERIOR PAINTING
- SOUND ABSORBING WALL UNITS

FLOORING & ACCESSORIES

- RESILIENT BASE AND ACCESSORIES
- RESILIENT SHEET FLOORING
- RESILIENT TILE FLOORING
- RESINOUS MATRIX TERRAZZO
- TILE CARPETING
- SHEET CARPETING

TABLE OF CONTENTS

INTERIOR MATERIALS SPECIFICATIONS

DIVISION 10 - SPECIALTIES

DISPLAY

- VISUAL DISPLAY UNITS

TOILET ROOMS

- TOILET ACCESSORIES

DIVISION 11 - EQUIPMENT

- RESIDENTIAL APPLIANCES

DIVISION 12 - FURNISHINGS

WINDOWS

- ROLLER WINDOW SHADES

COUNTERTOPS

- SOLID SURFACE COUNTERTOPS

ENTRANCE FLOORINGS

- ENTRANCE FLOOR MATS

DIVISION 22 - PLUMBING

- PLUMBING

BEST PRACTICES FOR BETTER ACOUSTICS IN LEARNING ENVIRONMENTS

ROOM TYPOLOGIES

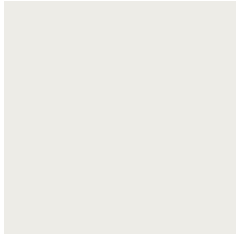
PUBLIC SPACES

PUBLIC SPACES

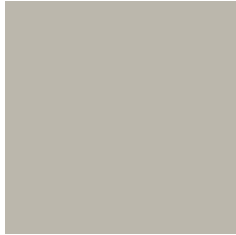
OVERVIEW:

Public Spaces: Includes open collaboration areas, corridors and restrooms. Refer to Interior Material Specifications for product information. *(Not all finishes apply to all spaces. Refer to room typology pages for specific selections.)*

WALLS & WINDOWS: OPEN COLLABORATION & CORRIDORS



PNT-1: General Paint



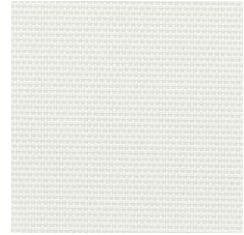
PNT-2: Accent Paint



PNT-8: Accent Paint:



PNT-9: Accent Paint



WS-1: Window Shade

WALLS: OPEN COLLABORATION



AWP-1: Acoustic Wall Panels



AWP-2: Acoustic Wall Panels



AWP-3: Acoustic Wall Panels

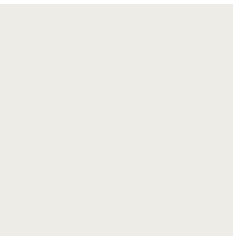


AWP-4: Acoustic Wall Panels

WALLS: RESTROOMS



PT-2: Porcelain Tile



PNT-1: General Paint

CEILING: OPEN COLLAB



CLG-1: Sound Absorb. Baffles

CEILING: CORRIDORS



CLG-3: Acoustical Tile Ceiling

CEILING: RESTROOMS



CLG-5: Gypsum Board

PUBLIC SPACES

OVERVIEW:

Public Spaces: Includes open collaboration areas, corridors and restrooms. Refer to Interior Material Specifications for product information. *(Not all finishes apply to all spaces. Refer to room typology pages for specific selections.)*

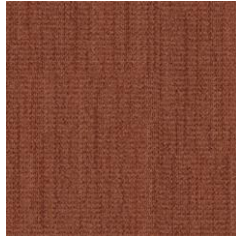
FLOORING: OPEN COLLAB- SMALL



CPT-1A: Carpet



CPT-1B: Carpet



CPT-1C: Carpet



CPT-2A: Carpet

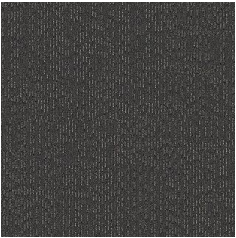


CPT-2B: Carpet



CPT-2C: Carpet

FLOORING: VESTIBULES & CORRIDORS



CPT-8: Carpet



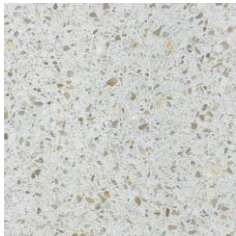
MAT-1: Mat Carpet



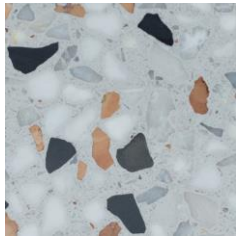
LVT-1: Luxury Vinyl Tile



CT-1: Ceramic Tile

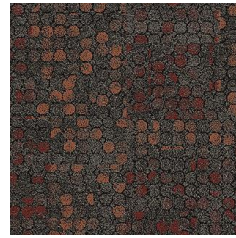


TZ-1: Terrazzo

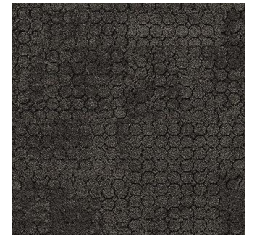


TZ-2: Terrazzo

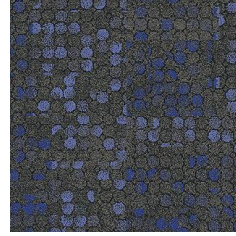
FLOORING: OPEN COLLAB- LARGE



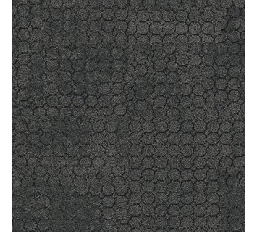
CPT-3A: Carpet



CPT-3B: Carpet



CPT-4A: Carpet



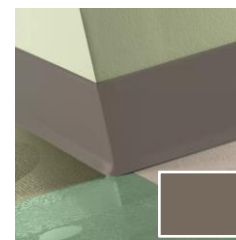
CPT-4B: Carpet

FLOORING: RESTROOMS



PT-1: Porcelain Tile

WALL BASE & STAIR TREAD:



RB-1: Rubber Base



RS-1: Rubber stair tread

PUBLIC SPACES

OVERVIEW:

Public Spaces: Includes open collaboration areas, corridors and restrooms. Refer to Interior Material Specifications for product information. *(Not all finishes apply to all spaces. Refer to room typology pages for specific selections.)*

PLUMBING FIXTURES



PLB-1 - Sink



PLB-2 - Faucet



PLB-3 - Faucet



PLB-4 - Toilet



PLB-5 -Urinal



PLB-6 - Water Fountain

RESTROOM ACCESSORIES



EQP-1 - Soap Dispenser



EQP-2 - Hand Dryer



EQP-3 - Sanitary Product Dispenser



EQP-4 - Waste Receptacle



EQP-5 - Sanitary Napkin Disposal



EQP-6 - Toilet Paper Dispenser



EQP-7 - Wall Hung Mirror



EQP-8 - Baby Changing Station



EQP-9 - Coat Hook



EQP-10 - Toilet Partitions

PUBLIC SPACES

OVERVIEW:

Public Spaces: Includes open collaboration areas, corridors and restrooms. Refer to Interior Material Specifications for product information. *(Not all finishes apply to all spaces. Refer to room typology pages for specific selections.)*

RESTROOM ACCESSORIES



EQP-11 - Soap Dispenser



EQP-12 - Floor Standing Waste Receptacle



EQP-13 - Grab Bars



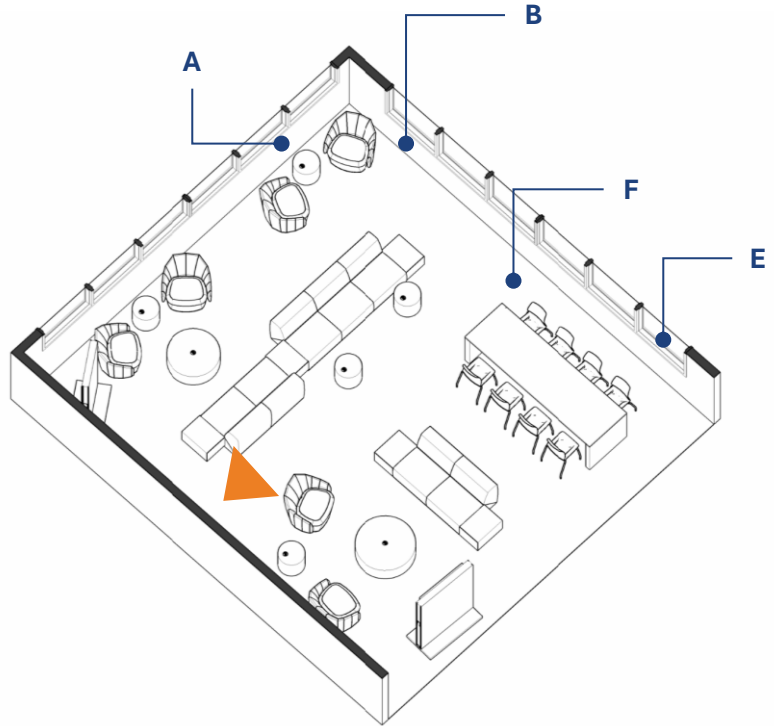
EQP-14 - Hand Dryer

OPEN COLLABORATION - LARGE

MATERIAL TAGGED VIEWS

INTERIOR FINISHES

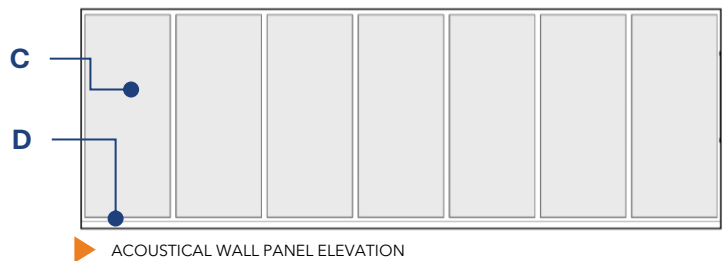
- A. General Paint: **PNT-1**
- B. Accent Paint: (Varies) *
 - PNT-2**
 - PNT-8**
 - PNT-9**
- C. Acoustic Wall Panels: (Varies) **
 - AWP-1**
 - AWP-2**
 - AWP-3**
 - AWP-4**
- D. Base: **RB-1**
- E. Windows: **WS-1**
- F. Flooring: (Color scheme varies by space) ***
 - CPT-3 (A,B)**
 - CPT-4 (A,B)**
- G. Ceiling: **CLG-1 (Not Shown)**



* *PNT-2, PNT-8 & PNT-9 to be used for environmental graphic/branding opportunities. These colors were selected to offer a range of options. Designer to coordinate with NCC for final selections and locations.*

** *These colors were selected to offer a range of options. Designer to coordinate with NCC for final selections and locations. Accent walls encouraged but not required everywhere.*

*** *Carpets were selected to offer a range of installation and design opportunities. Designer to coordinate with NCC for final selection and installation method. Orange scheme and Blue scheme should be exclusive of one another. Color schemes should not be mixed.*



NOTES

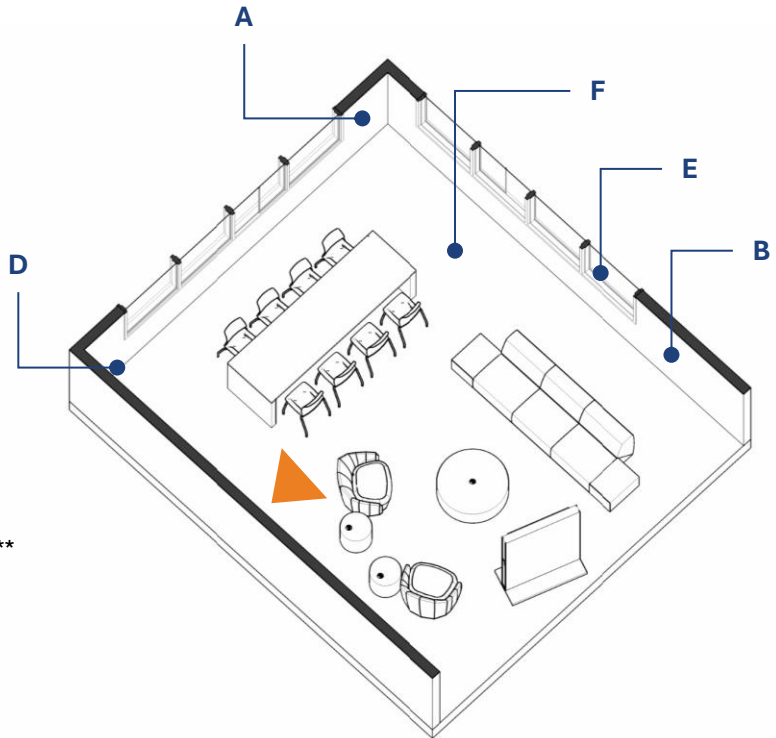
1. REFER TO MATERIAL SPECIFICATIONS AT THE BEGINNING OF THE GUIDELINES FOR PRODUCT INFORMATION.
2. THE DESIGNER SHOULD USE THIS GUIDE FOR SPECIFYING THE FINISHES ON NCC CAMPUS SITE PROJECTS.
3. THE INFORMATION DOES NOT RELIEVE THE DESIGNER OF SPECIFYING MATERIALS THAT ARE APPROPRIATE AND CODE COMPLAINT FOR SPECIFIC SPACES.
4. THE DESIGNER MAY SUGGEST OTHER MATERIALS AND FINISHES OF EQUAL VALUE IF THEY BELIEVE THOSE PROPOSED MATERIALS AND FINISHES WILL SUPPORT THE DESIGN CONCEPT, PALETTE, BRANDING, AND/OR DESIGN INTENT OF THE PROJECT. COORDINATE ALL SUBSTITUTIONS WITH NCC.
5. COORDINATE POWER/DATA INFEEED, RECEPTACLE /GROMMET QUANTITIES AND LOCATIONS WITH FURNITURE AND EQUIPMENT.

OPEN COLLABORATION - SMALL

MATERIAL TAGGED VIEWS

INTERIOR FINISHES

- A. General Paint: **PNT-1**
- B. Accent Paint: (Varies) *
 - PNT-2**
 - PNT-8**
 - PNT-9**
- C. Acoustic Wall Panels: (Varies) **
 - AWP-1**
 - AWP-2**
 - AWP-3**
 - AWP-4**
- D. Base: **RB-1**
- E. Windows: **WS-1**
- F. Flooring: (Color scheme varies by space) ***
 - CPT-1 (A,B,C)**
 - CPT-2 (A,B,C)**
- G. Ceiling: **CLG-1 (Not Shown)**



* *PNT-2, PNT-8 & PNT-9 to be used for environmental graphic/branding opportunities. These colors were selected to offer a range of options. Designer to coordinate with NCC for final selections and locations.*

** *These colors were selected to offer a range of options. Designer to coordinate with NCC for final selections and locations. Use of accent walls encouraged but not required everywhere.*

*** *Carpets were selected to offer a range of installation and design opportunities. Designer to coordinate with NCC for final selection and installation method. Orange scheme and Blue scheme should be exclusive of one another. Color schemes should not be mixed.*



▶ ACOUSTICAL WALL PANEL ELEVATION

NOTES

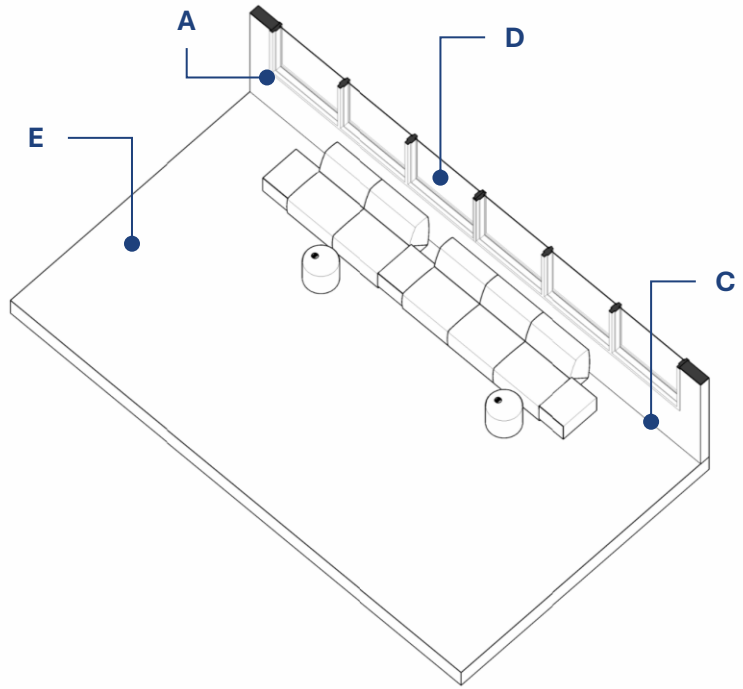
1. REFER TO MATERIAL SPECIFICATIONS AT THE BEGINNING OF THE GUIDELINES FOR PRODUCT INFORMATION.
2. THE DESIGNER SHOULD USE THIS GUIDE FOR SPECIFYING THE FINISHES ON NCC CAMPUS SITE PROJECTS.
3. THE INFORMATION DOES NOT RELIEVE THE DESIGNER OF SPECIFYING MATERIALS THAT ARE APPROPRIATE AND CODE COMPLAINT FOR SPECIFIC SPACES.
4. THE DESIGNER MAY SUGGEST OTHER MATERIALS AND FINISHES OF EQUAL VALUE IF THEY BELIEVE THOSE PROPOSED MATERIALS AND FINISHES WILL SUPPORT THE DESIGN CONCEPT, PALETTE, BRANDING, AND/OR DESIGN INTENT OF THE PROJECT. COORDINATE ALL SUBSTITUTIONS WITH NCC.
5. COORDINATE POWER/DATA INFEEED, RECEPTACLE /GROMMET QUANTITIES AND LOCATIONS WITH FURNITURE AND EQUIPMENT.

OPEN COLLABORATION - CORRIDOR

MATERIAL TAGGED VIEWS

INTERIOR FINISHES

- A. General Paint: **PNT-1**
- B. Accent Paint: (Varies. Not Shown) *
PNT-2
PNT-8
PNT-9
- C. Base: (Varies per floor selection) **
- D. Windows: **WS-1**
- E. Flooring: (Varies) ***
LVT-1
CT-1 or CT-2 (alternative)
TZ-1
TZ-2
- F. Ceiling: **CLG-3 (Not Shown)**



* *PNT-2, PNT-8 & PNT-9 to be used for environmental graphic/branding opportunities. These colors were selected to offer a range of options. Designer to coordinate with NCC for final selections and locations. Accent walls encouraged but not required everywhere.*

** *Wall base varies per floor selection. Refer to material specifications for additional information.*

*** *These finishes were selected to offer a range of options. Designer to coordinate with NCC for final selections and locations. Recommended to use alternative PVC-free tile in lieu of LVT if possible.*

NOTES

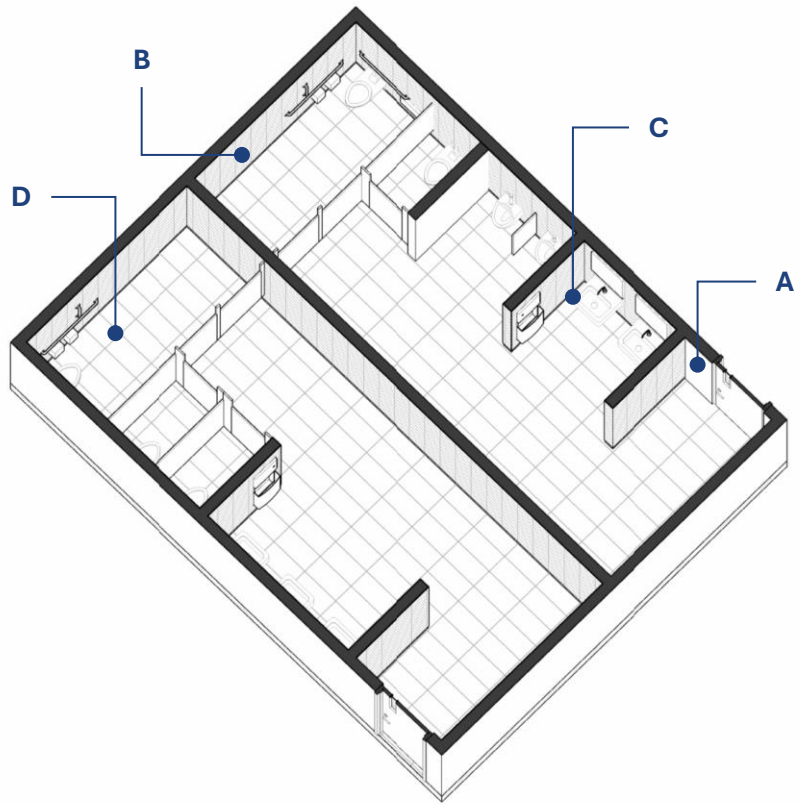
1. REFER TO MATERIAL SPECIFICATIONS AT THE BEGINNING OF THE GUIDELINES FOR PRODUCT INFORMATION.
2. THE DESIGNER SHOULD USE THIS GUIDE FOR SPECIFYING THE FINISHES ON NCC CAMPUS SITE PROJECTS.
3. THE INFORMATION DOES NOT RELIEVE THE DESIGNER OF SPECIFYING MATERIALS THAT ARE APPROPRIATE AND CODE COMPLAINT FOR SPECIFIC SPACES.
4. THE DESIGNER MAY SUGGEST OTHER MATERIALS AND FINISHES OF EQUAL VALUE IF THEY BELIEVE THOSE PROPOSED MATERIALS AND FINISHES WILL SUPPORT THE DESIGN CONCEPT, PALETTE, BRANDING, AND/OR DESIGN INTENT OF THE PROJECT. COORDINATE ALL SUBSTITUTIONS WITH NCC.
5. COORDINATE POWER/DATA INFEEED, RECEPTACLE /GROMMET QUANTITIES AND LOCATIONS WITH FURNITURE AND EQUIPMENT.

RESTROOMS

MATERIAL TAGGED VIEWS

INTERIOR FINISHES

- A. General Paint: **PNT-1**
- B. Wall Tile: **PT-2 or CT-4 (alternative) ***
- C. Base: **PT-2 or PT-5 (alternative) Tile Covered Base Trims**
- D. Flooring: **PT-2 or PT-5 (alternative)**
- E. Ceiling: **CLG-5 (Not Shown)**



PLUMBING & ACCESSORIES

- A. Sink: **PLB-1**
- B. Faucet: **PLB-2**
- C. Toilet: **PLB-4**
- D. Urinal: **PLB-5**
- E. Soap Dispenser: **EQP-1**
- F. Hand Dryer: **EQP-2 ****
- G. Napkin/Tampon Vendor: **EQP-3**
- H. Waste Receptacle: **EQP-4**
- I. Sanitary Napkin Disposal: **EQP-5**
- J. Toilet Paper Dispenser: **EQP-6**
- K. Mirror: **EQP-7**
- L. Baby Changing Station: **EQP-8**
- M. Wall Hook: **EQP-9**
- N. Toilet Partitions: **EQP-10**

* Provide wainscoting tile on non-wet walls, and full wall tile on wet walls.

** Refer to product specifications section for over the sink hand dryer alternative. NCC to advise areas where it will be used in lieu of standard hand dryer.

NOTES

1. REFER TO MATERIAL SPECIFICATIONS AT THE BEGINNING OF THE GUIDELINES FOR PRODUCT INFORMATION.
2. THE DESIGNER SHOULD USE THIS GUIDE FOR SPECIFYING THE FINISHES ON NCC CAMPUS SITE PROJECTS.
3. THE INFORMATION DOES NOT RELIEVE THE DESIGNER OF SPECIFYING MATERIALS THAT ARE APPROPRIATE AND CODE COMPLAINT FOR SPECIFIC SPACES.
4. THE DESIGNER MAY SUGGEST OTHER MATERIALS AND FINISHES OF EQUAL VALUE IF THEY BELIEVE THOSE PROPOSED MATERIALS AND FINISHES WILL SUPPORT THE DESIGN CONCEPT, PALETTE, BRANDING, AND/OR DESIGN INTENT OF THE PROJECT. COORDINATE ALL SUBSTITUTIONS WITH NCC.
5. COORDINATE POWER/DATA INFEEED, RECEPTACLE /GROMMET QUANTITIES AND LOCATIONS WITH FURNITURE AND EQUIPMENT.

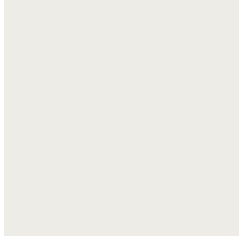
LEARNING

LEARNING

OVERVIEW:

Learning: Includes classrooms, group study rooms, laboratories and lecture halls. Refer to Interior Material Specifications for product information. *(Not all finishes apply to all spaces. Refer to room typology pages for specific selections.)*

WALLS & WINDOWS:



PNT-1: General Paint



PNT-3: Accent Paint



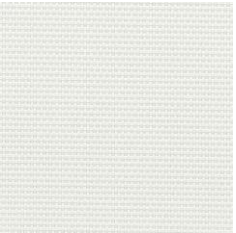
AWP-2: Acoustic Wall Panels



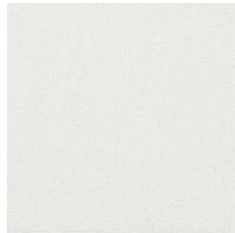
AWP-3: Acoustic Wall Panels



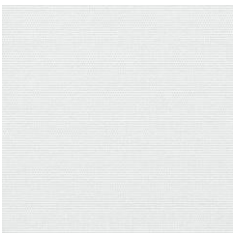
AWP-4: Acoustic Wall Panels



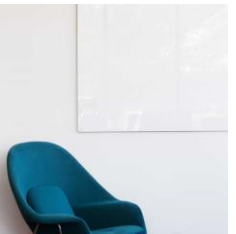
WS-1: Window shade



WS-2: Window Shade



WS-3: Window Shade



WB-3: Whiteboard



TB-1: Tackboard

Note: Building specific accent colors are currently under development and may be incorporated into this color palette and furniture selection once confirmed.

LEARNING

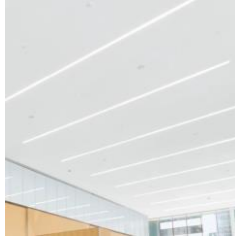
OVERVIEW:

Learning: Includes classrooms, group study rooms, laboratories and lecture halls. Refer to Interior Material Specifications for product information. *(Not all finishes apply to all spaces. Refer to room typology pages for specific selections.)*

CEILING: CLASSROOMS, GROUP STUDY & LECTURE HALL

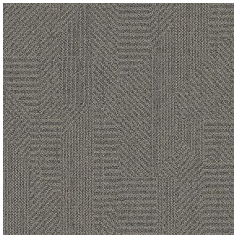


CLG-2: Acoustical Panel Ceiling



CLG-6: Acoustical Plaster Ceiling

FLOORING: CLASSROOMS, GROUP STUDY & LECTURE HALL



CPT-5: Carpet

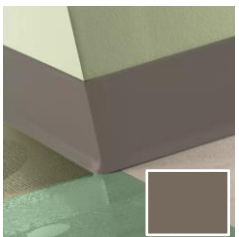


LVT-1: Luxury Vinyl Tile

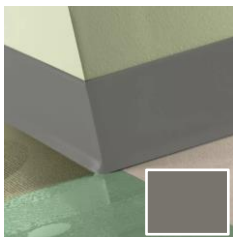


CPT-9: Carpet

WALL BASES: CLASSROOMS, GROUP STUDY & LECTURE HALL

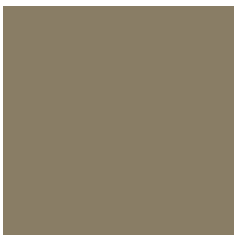


RB-1: Resilient Base



RB-3: Resilient Base

MILLWORK: GROUP STUDY



PLAM-2: Laminate



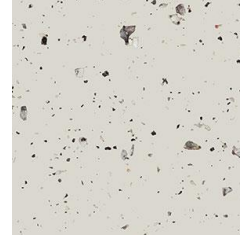
SS-1: Solid Surface

CEILING: LABS

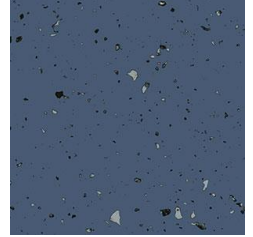


CLG-4: Acoustical Tile Ceiling

FLOORING: LABS



RSF-1: Resilient Sheet Flooring



RSF-2: Resilient Sheet Flooring

WALL BASES: LABS



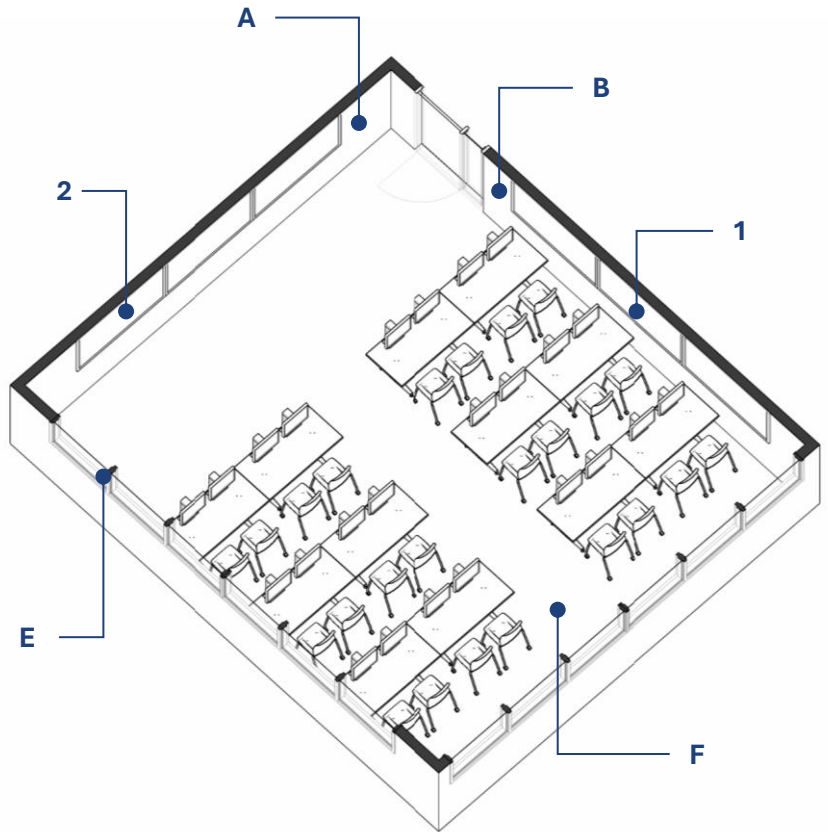
RB-4: Integrated Base

CLASSROOM - HI FLEX

MATERIAL TAGGED VIEWS

INTERIOR FINISHES

- A. General Paint: **PNT-1**
- B. Accent Paint: **PNT-3 ***
- C. Acoustic Wall Panels: *(Varies) ***
 - AWP-2**
 - AWP-3**
 - AWP-4**
- D. Rubber Base: **RB-3**
- E. Windows: **WS-2 & WS-3**
- F. Flooring: **LVT-1 *****
- G. Ceiling: **CLG-2 (Not Shown)**



SPECIALTIES

- 1. Tackboard-**TB-1**
- 2. Whiteboard-**WB-3**

* Designer to coordinate with NCC for final accent paint locations.

** These colors were selected to offer a range of options. Designer to coordinate with NCC for final selections and locations. Accent walls encouraged but not required everywhere.

*** Recommended to use alternative PVC-free tile in lieu of LVT if possible.

NOTES

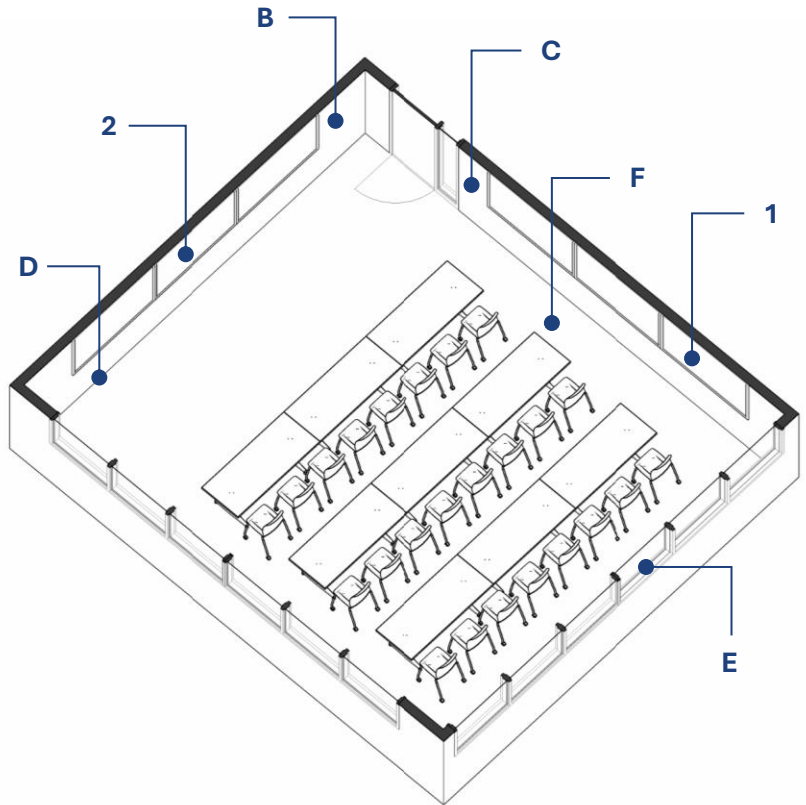
- 1. REFER TO MATERIAL SPECIFICATIONS AT THE BEGINNING OF THE GUIDELINES FOR PRODUCT INFORMATION.
- 2. THE DESIGNER SHOULD USE THIS GUIDE FOR SPECIFYING THE FINISHES ON NCC CAMPUS SITE PROJECTS.
- 3. THE INFORMATION DOES NOT RELIEVE THE DESIGNER OF SPECIFYING MATERIALS THAT ARE APPROPRIATE AND CODE COMPLAINT FOR SPECIFIC SPACES.
- 4. THE DESIGNER MAY SUGGEST OTHER MATERIALS AND FINISHES OF EQUAL VALUE IF THEY BELIEVE THOSE PROPOSED MATERIALS AND FINISHES WILL SUPPORT THE DESIGN CONCEPT, PALETTE, BRANDING, AND/OR DESIGN INTENT OF THE PROJECT. COORDINATE ALL SUBSTITUTIONS WITH NCC.
- 5. COORDINATE POWER/DATA INFED, RECEPTACLE /GROMMET QUANTITIES AND LOCATIONS WITH FURNITURE AND EQUIPMENT.

CLASSROOM - MEDIUM

MATERIAL TAGGED VIEWS

INTERIOR FINISHES

- A. General Paint: **PNT-1**
- B. Accent Paint: **PNT-3 ***
- C. Acoustic Wall Panels: (Varies) **
AWP-2
AWP-3
AWP-4
- D. Rubber Base: **RB-3**
- E. Windows: **WS-2 & WS-3**
- F. Flooring: **CPT-5**
- G. Ceiling: **CLG-2 (Not Shown)**



SPECIALTIES

- 1. Tackboard-**TB-1**
- 2. Whiteboard-**WB-3**

* Designer to coordinate with NCC for final accent paint locations. Accent walls encouraged but not required everywhere.

** These colors were selected to offer a range of options. Designer to coordinate with NCC for final selections and locations.

NOTES

- 1. REFER TO MATERIAL SPECIFICATIONS AT THE BEGINNING OF THE GUIDELINES FOR PRODUCT INFORMATION.
- 2. THE DESIGNER SHOULD USE THIS GUIDE FOR SPECIFYING THE FINISHES ON NCC CAMPUS SITE PROJECTS.
- 3. THE INFORMATION DOES NOT RELIEVE THE DESIGNER OF SPECIFYING MATERIALS THAT ARE APPROPRIATE AND CODE COMPLAINT FOR SPECIFIC SPACES.
- 4. THE DESIGNER MAY SUGGEST OTHER MATERIALS AND FINISHES OF EQUAL VALUE IF THEY BELIEVE THOSE PROPOSED MATERIALS AND FINISHES WILL SUPPORT THE DESIGN CONCEPT, PALETTE, BRANDING, AND/OR DESIGN INTENT OF THE PROJECT. COORDINATE ALL SUBSTITUTIONS WITH NCC.
- 5. COORDINATE POWER/DATA INFEED, RECEPTACLE /GROMMET QUANTITIES AND LOCATIONS WITH FURNITURE AND EQUIPMENT.

STUDY LOUNGE

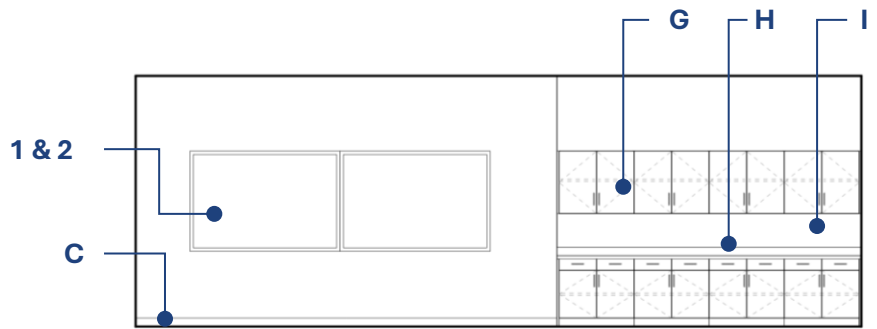
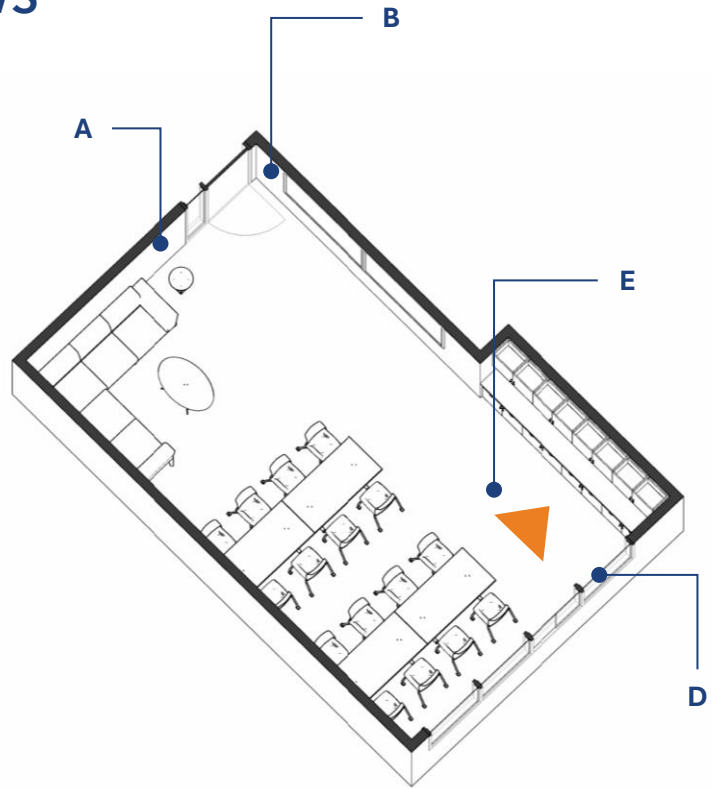
MATERIAL TAGGED VIEWS

INTERIOR FINISHES

- A. General Paint: **PNT-1**
- B. Accent Paint: **PNT-3 ***
- C. Rubber Base: **RB-1**
- D. Windows: **WS-2 & WS-3**
- E. Flooring: **CPT-5**
- F. Ceiling: **CLG-2 (Not Shown)**
- G. Millwork Laminate: **PLAM-2**
- H. Solid Surface: **SS-2**
- I. Backsplash Tile: **PT-4**

SPECIALTIES

- 1. Tackboard-**TB-1**
- 2. Whiteboard-**WB-3**



▶ MILLWORK ELEVATION

* Designer to coordinate with NCC for final accent paint locations. Accent walls encouraged but not required everywhere.

NOTES

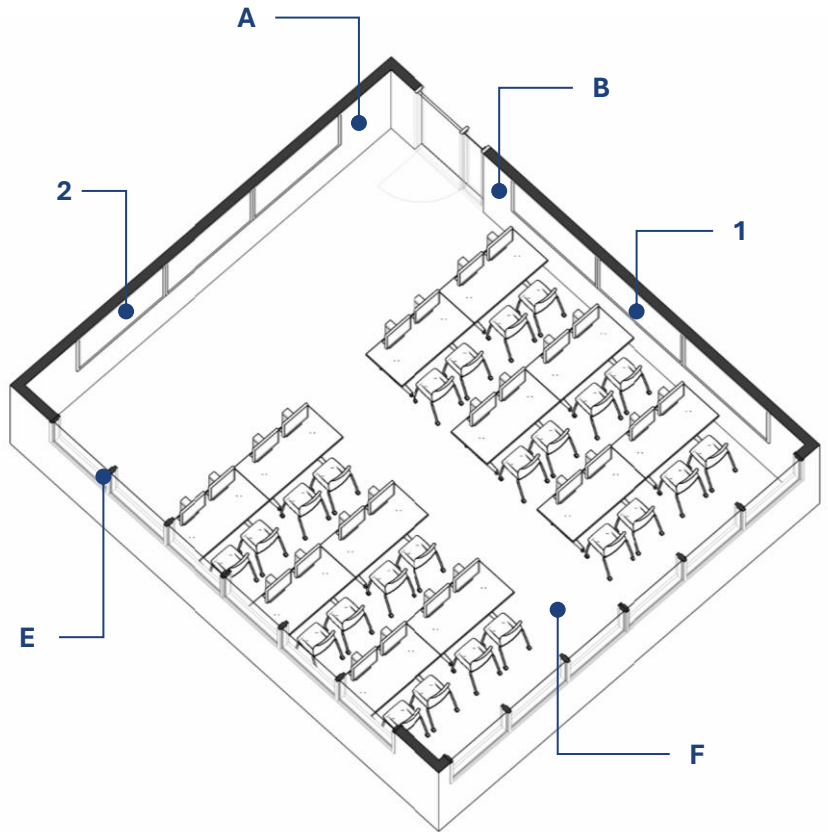
1. REFER TO MATERIAL SPECIFICATIONS AT THE BEGINNING OF THE GUIDELINES FOR PRODUCT INFORMATION.
2. THE DESIGNER SHOULD USE THIS GUIDE FOR SPECIFYING THE FINISHES ON NCC CAMPUS SITE PROJECTS.
3. THE INFORMATION DOES NOT RELIEVE THE DESIGNER OF SPECIFYING MATERIALS THAT ARE APPROPRIATE AND CODE COMPLAINT FOR SPECIFIC SPACES.
4. THE DESIGNER MAY SUGGEST OTHER MATERIALS AND FINISHES OF EQUAL VALUE IF THEY BELIEVE THOSE PROPOSED MATERIALS AND FINISHES WILL SUPPORT THE DESIGN CONCEPT, PALETTE, BRANDING, AND/OR DESIGN INTENT OF THE PROJECT. COORDINATE ALL SUBSTITUTIONS WITH NCC.
5. COORDINATE POWER/DATA INFEED, RECEPTACLE /GROMMET QUANTITIES AND LOCATIONS WITH FURNITURE AND EQUIPMENT.
6. MILLWORK IS NOT A TYPICAL IN ALL STUDY LOUNGE ROOMS, BUT CAN BE PROVIDED UPON REQUEST FROM NCC.

COMPUTER LAB

MATERIAL TAGGED VIEWS

INTERIOR FINISHES

- A. General Paint: **PNT-1**
- B. Accent Paint: **PNT-3 ***
- C. Acoustic Wall Panels: (Varies) **
 - AWP-2**
 - AWP-3**
 - AWP-4**
- D. Rubber Base: **RB-3**
- E. Windows: **WS-2 & WS-3**
- F. Flooring: **CPT-5**
- G. Ceiling: **CLG-2 (Not Shown)**



SPECIALTIES

- 1. Tackboard-**TB-1**
- 2. Whiteboard-**WB-3**

* Designer to coordinate with NCC for final accent paint locations. Accent walls encouraged but not required everywhere.

** These colors were selected to offer a range of options. Designer to coordinate with NCC for final selections and locations. Accent walls encouraged but not required everywhere.

NOTES

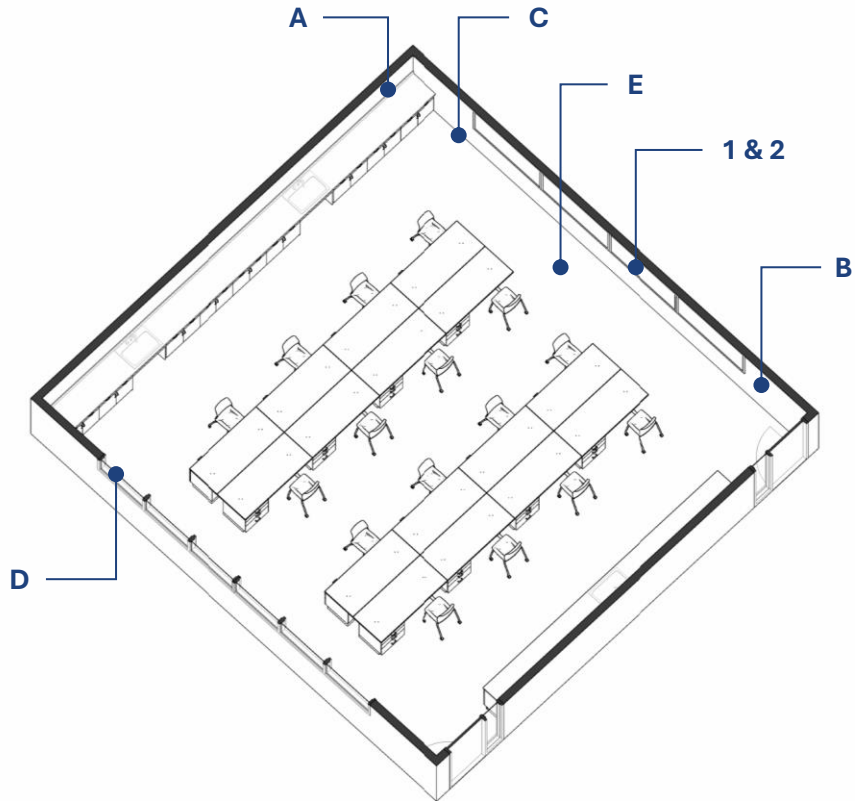
- 1. REFER TO MATERIAL SPECIFICATIONS AT THE BEGINNING OF THE GUIDELINES FOR PRODUCT INFORMATION.
- 2. THE DESIGNER SHOULD USE THIS GUIDE FOR SPECIFYING THE FINISHES ON NCC CAMPUS SITE PROJECTS.
- 3. THE INFORMATION DOES NOT RELIEVE THE DESIGNER OF SPECIFYING MATERIALS THAT ARE APPROPRIATE AND CODE COMPLAINT FOR SPECIFIC SPACES.
- 4. THE DESIGNER MAY SUGGEST OTHER MATERIALS AND FINISHES OF EQUAL VALUE IF THEY BELIEVE THOSE PROPOSED MATERIALS AND FINISHES WILL SUPPORT THE DESIGN CONCEPT, PALETTE, BRANDING, AND/OR DESIGN INTENT OF THE PROJECT. COORDINATE ALL SUBSTITUTIONS WITH NCC.
- 5. COORDINATE POWER/DATA INFED, RECEPTACLE /GROMMET QUANTITIES AND LOCATIONS WITH FURNITURE AND EQUIPMENT.

LABORATORIES

MATERIAL TAGGED VIEWS

INTERIOR FINISHES

- A. General Paint: **PNT-1**
- B. Accent Paint: **PNT-3**
- C. Base: **RB-4**
- D. Windows: **WS-2 & WS-3**
- E. Flooring: **RSF-1 & RSF-2 ***
- F. Ceiling: **CLG-4 (Not shown)**



SPECIALTIES

- 1. Tackboard-**TB-1**
- 2. Whiteboard-**WB-3**

* Designer to coordinate with NCC for final accent paint locations. Accent walls encouraged but not required everywhere..

** Refer to material specifications for flooring installation images.

NOTES

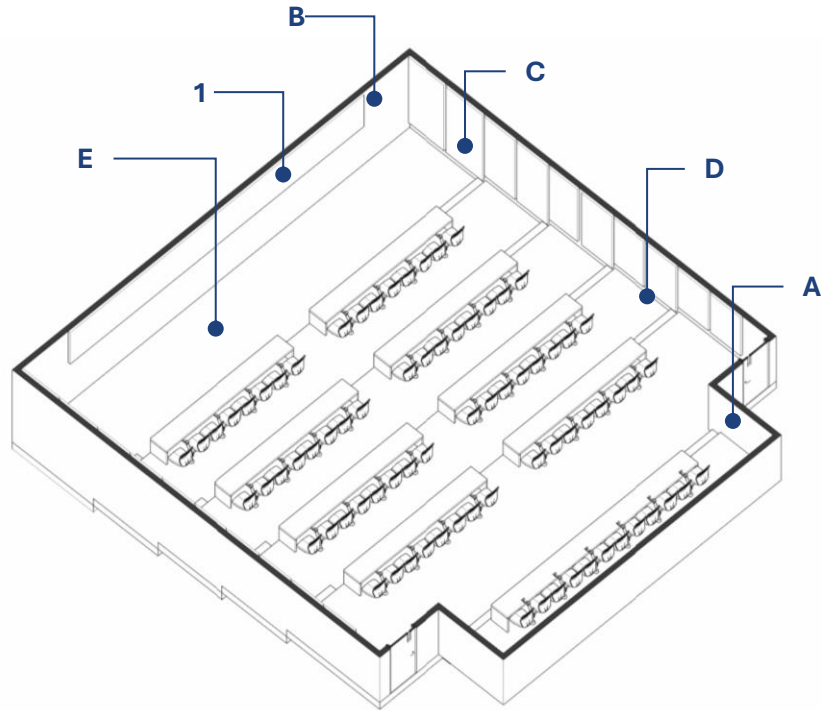
- 1. REFER TO MATERIAL SPECIFICATIONS AT THE BEGINNING OF THE GUIDELINES FOR PRODUCT INFORMATION.
- 2. THE DESIGNER SHOULD USE THIS GUIDE FOR SPECIFYING THE FINISHES ON NCC CAMPUS SITE PROJECTS.
- 3. THE INFORMATION DOES NOT RELIEVE THE DESIGNER OF SPECIFYING MATERIALS THAT ARE APPROPRIATE AND CODE COMPLAINT FOR SPECIFIC SPACES.
- 4. THE DESIGNER MAY SUGGEST OTHER MATERIALS AND FINISHES OF EQUAL VALUE IF THEY BELIEVE THOSE PROPOSED MATERIALS AND FINISHES WILL SUPPORT THE DESIGN CONCEPT, PALETTE, BRANDING, AND/OR DESIGN INTENT OF THE PROJECT. COORDINATE ALL SUBSTITUTIONS WITH NCC.
- 5. COORDINATE POWER/DATA INFEEED, RECEPTACLE /GROMMET QUANTITIES AND LOCATIONS WITH FURNITURE AND EQUIPMENT.

LECTURE HALL

MATERIAL TAGGED VIEWS

INTERIOR FINISHES

- A. General Paint: **PNT-1**
- B. Accent Paint: **PNT-3**
- C. Acoustic Wall Panels: (Varies) *
AWP-2
AWP-3
AWP-4
- D. Rubber Base: **RB-3**
- E. Flooring: **CPT-9**
- F. Ceiling: **CLG-6 (Not Shown)****



SPECIALTIES

1. Whiteboard- **WB-3**

* These colors were selected to offer a range of options. Designer to coordinate with NCC for final selections and locations. Accent walls encouraged but not required everywhere.

NOTES

1. REFER TO MATERIAL SPECIFICATIONS AT THE BEGINNING OF THE GUIDELINES FOR PRODUCT INFORMATION.
2. THE DESIGNER SHOULD USE THIS GUIDE FOR SPECIFYING THE FINISHES ON NCC CAMPUS SITE PROJECTS.
3. THE INFORMATION DOES NOT RELIEVE THE DESIGNER OF SPECIFYING MATERIALS THAT ARE APPROPRIATE AND CODE COMPLAINT FOR SPECIFIC SPACES.
4. THE DESIGNER MAY SUGGEST OTHER MATERIALS AND FINISHES OF EQUAL VALUE IF THEY BELIEVE THOSE PROPOSED MATERIALS AND FINISHES WILL SUPPORT THE DESIGN CONCEPT, PALETTE, BRANDING, AND/OR DESIGN INTENT OF THE PROJECT. COORDINATE ALL SUBSTITUTIONS WITH NCC.
5. COORDINATE POWER/DATA INFEED, RECEPTACLE /GROMMET QUANTITIES AND LOCATIONS WITH FURNITURE AND EQUIPMENT.

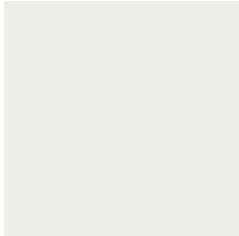
ADMINISTRATION

ADMINISTRATION

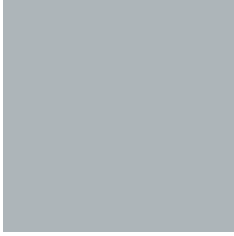
OVERVIEW:

Administration: Includes private offices, open workstations, conference rooms & staff lounge/pantry. Refer to Interior Material Specifications for product information. *(Not all finishes apply to all spaces. Refer to room typology pages for specific selections.)*

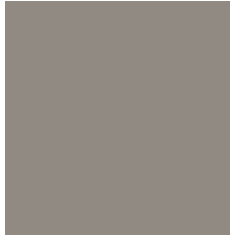
WALLS & WINDOWS:



PNT-1: General Paint



PNT-4: Accent paint



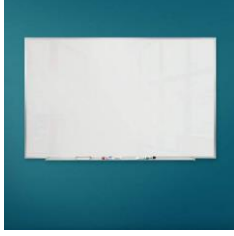
PNT-5: Accent Paint



PNT-6: Accent Paint



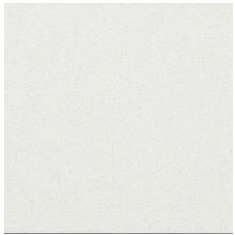
TB-1: Tackboard



WB-1: Whiteboard



WB-2: Whiteboard



WS-2: Window shade

CEILING:



CLG-3

ADMINISTRATION

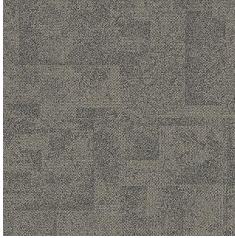
OVERVIEW:

Administration: Includes private offices, open workstations, conference rooms & staff lounge/pantry. Refer to Interior Material Specifications for product information. *(Not all finishes apply to all spaces. Refer to room typology pages for specific selections.)*

FLOORING: OFFICES & OPEN WORKSATIONS



CPT-6: Carpet



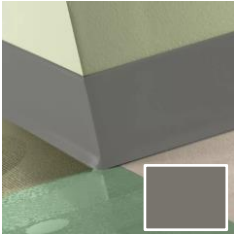
CPT-7: Carpet

FLOORING: CORRIDORS & STAFF LOUNGE



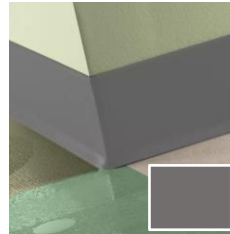
LVT-2: Luxury vinyl Tile

WALL BASES: OFFICES & OPEN WORKSTATIONS



RB-3: Resilient Base

WALL BASES: CORRIDORS & STAFF LOUNGE



RB-2: Resilient Base

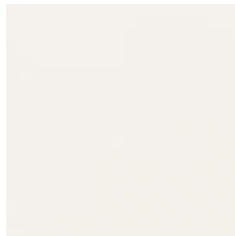
MILLWORK: STAFF LOUNGE



PLAM-1: Laminate



SS-1: Solid Surface



PT-3: Porcelain Tile Backsplash

ADMINISTRATION

OVERVIEW:

Administration: Includes private offices, open workstations, conference rooms & staff lounge/pantry. Refer to Interior Material Specifications for product information. *(Not all finishes apply to all spaces. Refer to room typology pages for specific selections.)*

PLUMBING FIXTURES



PLB-7 - Kitchen Sink



PLB-8- Kitchen Faucet
& Water Filter Faucet

APPLIANCES



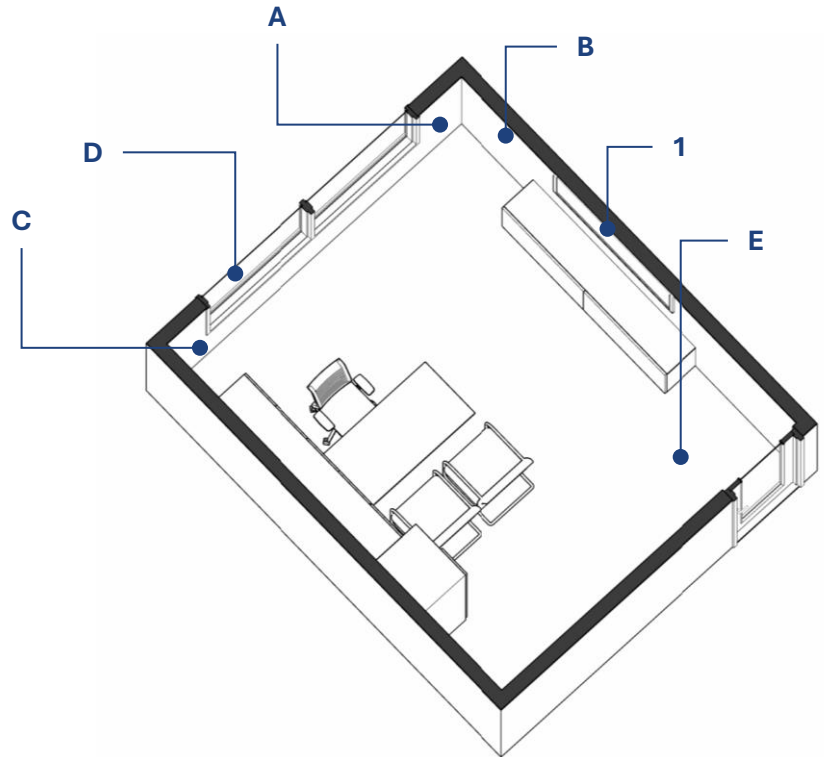
EQP-15 - Refrigerator

TYPICAL OFFICE - LARGE

MATERIAL TAGGED VIEWS

INTERIOR FINISHES

- A. General Paint: **PNT-1**
- B. Accent Paint: *(Varies)* *
PNT-4
PNT-5
- C. Base: **RB-3**
- D. Windows: **WS-2**
- E. Flooring: **CPT-7**
- F. Ceiling: **CLG-3** *(Not Shown)*



SPECIALTIES

1. Whiteboard- **WB-1** or **WB-2** **

* *These colors were selected to offer a range of options. Designer to coordinate with NCC for final selections and locations. Accent walls encouraged but not required everywhere.*

** *NCC to advise on existing or required technology to determine surface projection capabilities/needs for room.*

NOTES

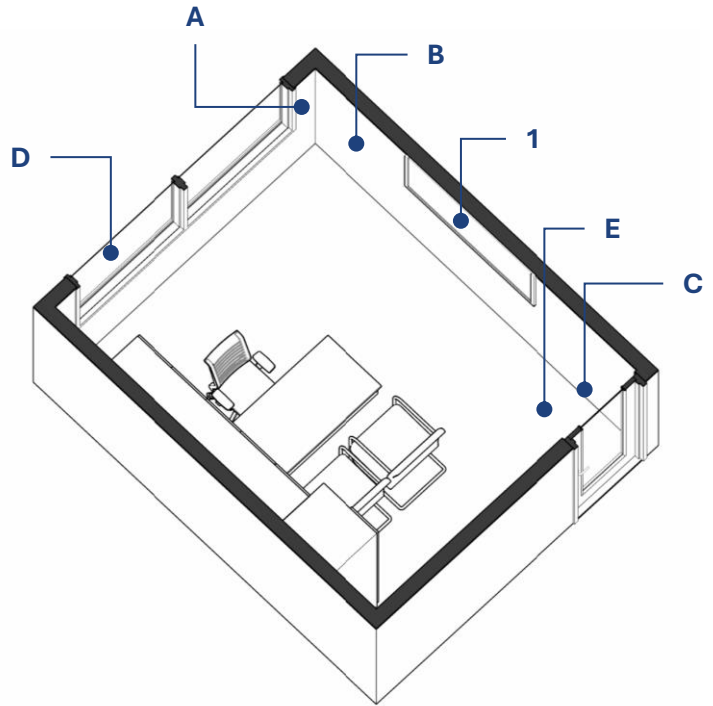
1. REFER TO MATERIAL SPECIFICATIONS AT THE BEGINNING OF THE GUIDELINES FOR PRODUCT INFORMATION.
2. THE DESIGNER SHOULD USE THIS GUIDE FOR SPECIFYING THE FINISHES ON NCC CAMPUS SITE PROJECTS.
3. THE INFORMATION DOES NOT RELIEVE THE DESIGNER OF SPECIFYING MATERIALS THAT ARE APPROPRIATE AND CODE COMPLAINT FOR SPECIFIC SPACES.
4. THE DESIGNER MAY SUGGEST OTHER MATERIALS AND FINISHES OF EQUAL VALUE IF THEY BELIEVE THOSE PROPOSED MATERIALS AND FINISHES WILL SUPPORT THE DESIGN CONCEPT, PALETTE, BRANDING, AND/OR DESIGN INTENT OF THE PROJECT. COORDINATE ALL SUBSTITUTIONS WITH NCC.
5. COORDINATE POWER/DATA INFED, RECEPTACLE /GROMMET QUANTITIES AND LOCATIONS WITH FURNITURE AND EQUIPMENT.

TYPICAL OFFICE - SMALL

MATERIAL TAGGED VIEWS

INTERIOR FINISHES

- A. General Paint: **PNT-1**
- B. Accent Paint: *(Varies)* *
PNT-4
PNT-5
- C. Base: **RB-3**
- D. Windows: **WS-2**
- E. Flooring: **CPT-7**
- F. Ceiling: **CLG-3** *(Not Shown)*



SPECIALTIES

1. Whiteboard- **WB-1** or **WB-2** **

* *These colors were selected to offer a range of options. Designer to coordinate with NCC for final selections and locations. Accent walls encouraged but not required everywhere*

** *NCC to advise on existing or required technology to determine surface projection capabilities/needs for room.*

NOTES

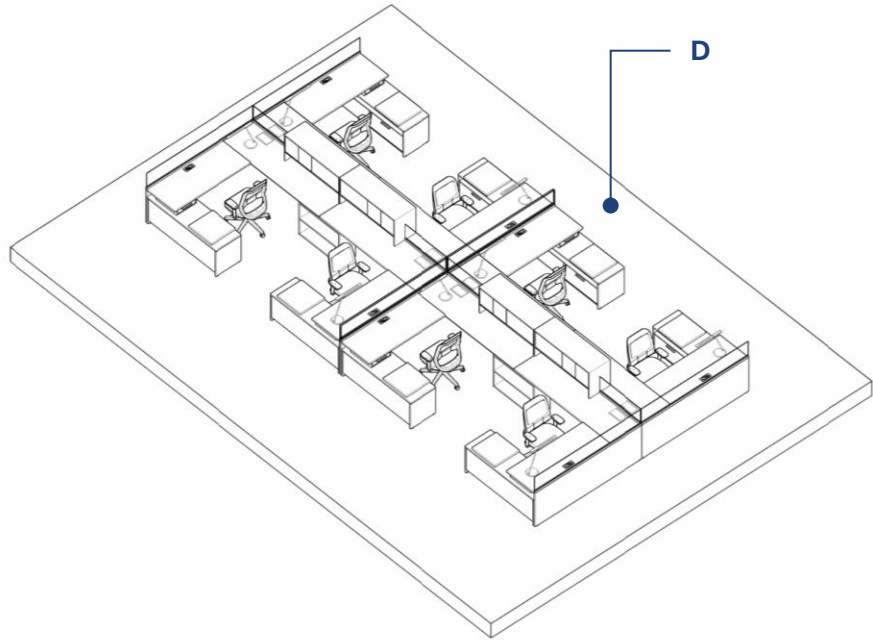
1. REFER TO MATERIAL SPECIFICATIONS AT THE BEGINNING OF THE GUIDELINES FOR PRODUCT INFORMATION.
2. THE DESIGNER SHOULD USE THIS GUIDE FOR SPECIFYING THE FINISHES ON NCC CAMPUS SITE PROJECTS.
3. THE INFORMATION DOES NOT RELIEVE THE DESIGNER OF SPECIFYING MATERIALS THAT ARE APPROPRIATE AND CODE COMPLAINT FOR SPECIFIC SPACES.
4. THE DESIGNER MAY SUGGEST OTHER MATERIALS AND FINISHES OF EQUAL VALUE IF THEY BELIEVE THOSE PROPOSED MATERIALS AND FINISHES WILL SUPPORT THE DESIGN CONCEPT, PALETTE, BRANDING, AND/OR DESIGN INTENT OF THE PROJECT. COORDINATE ALL SUBSTITUTIONS WITH NCC.
5. COORDINATE POWER/DATA INFED, RECEPTACLE /GROMMET QUANTITIES AND LOCATIONS WITH FURNITURE AND EQUIPMENT.

OPEN WORKSTATIONS

MATERIAL TAGGED VIEWS

INTERIOR FINISHES

- A. General Paint: **PNT-1** (Not shown)
- B. Base: **RB-3** (Not shown)
- C. Windows: **WS-2** (Not shown)
- D. Flooring: **CPT-6**
- E. Ceiling: **CLG-3** (Not Shown)



NOTES

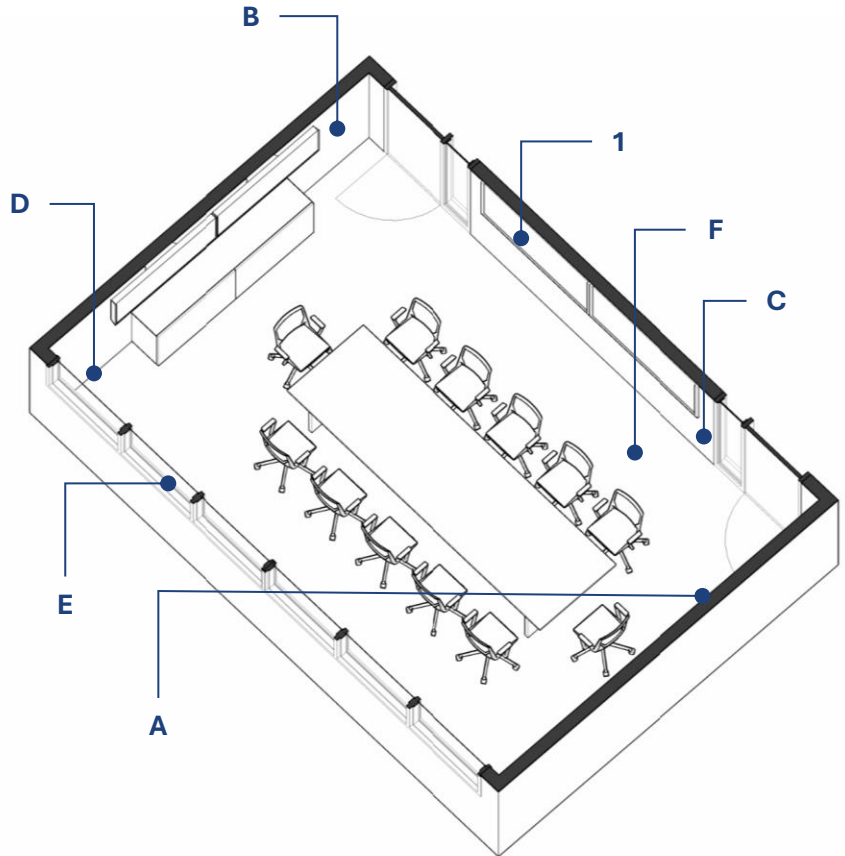
1. REFER TO MATERIAL SPECIFICATIONS AT THE BEGINNING OF THE GUIDELINES FOR PRODUCT INFORMATION.
2. THE DESIGNER SHOULD USE THIS GUIDE FOR SPECIFYING THE FINISHES ON NCC CAMPUS SITE PROJECTS.
3. THE INFORMATION DOES NOT RELIEVE THE DESIGNER OF SPECIFYING MATERIALS THAT ARE APPROPRIATE AND CODE COMPLAINT FOR SPECIFIC SPACES.
4. THE DESIGNER MAY SUGGEST OTHER MATERIALS AND FINISHES OF EQUAL VALUE IF THEY BELIEVE THOSE PROPOSED MATERIALS AND FINISHES WILL SUPPORT THE DESIGN CONCEPT, PALETTE, BRANDING, AND/OR DESIGN INTENT OF THE PROJECT. COORDINATE ALL SUBSTITUTIONS WITH NCC.
5. COORDINATE POWER/DATA INFEEED, RECEPTACLE /GROMMET QUANTITIES AND LOCATIONS WITH FURNITURE AND EQUIPMENT.

CONFERENCE ROOM - LARGE

MATERIAL TAGGED VIEWS

INTERIOR FINISHES

- A. General Paint: **PNT-1**
- B. Accent Paint: *(Varies)* *
PNT-4
PNT-5
- C. Acoustic Wall Panels: *(Varies)* *
AWP-2
AWP-3
AWP-4
- D. Base: **RB-3**
- E. Windows: **WS-2**
- F. Flooring: **CPT-7**
- G. Ceiling: **CLG-3** *(Not Shown)*



SPECIALTIES

1. Whiteboard- **WB-1** or **WB-2** **

* *These colors were selected to offer a range of options. Designer to coordinate with NCC for final selections and locations. Accent walls encouraged but not required everywhere.*

** *NCC to advise on existing or required technology to determine surface projection capabilities/needs for room.*

NOTES

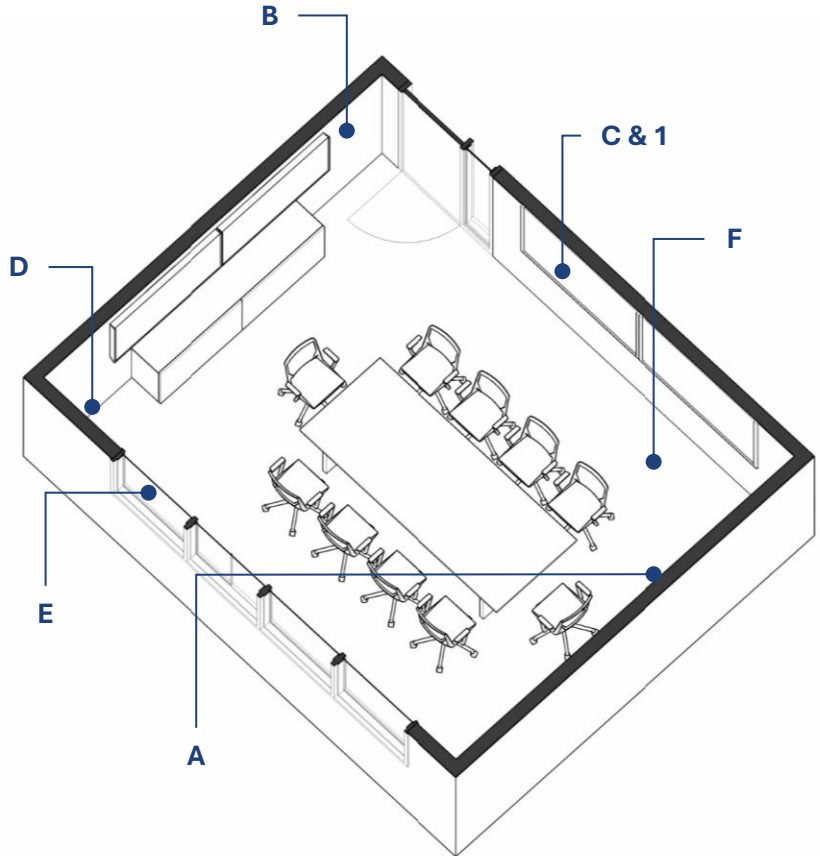
1. REFER TO MATERIAL SPECIFICATIONS AT THE BEGINNING OF THE GUIDELINES FOR PRODUCT INFORMATION.
2. THE DESIGNER SHOULD USE THIS GUIDE FOR SPECIFYING THE FINISHES ON NCC CAMPUS SITE PROJECTS.
3. THE INFORMATION DOES NOT RELIEVE THE DESIGNER OF SPECIFYING MATERIALS THAT ARE APPROPRIATE AND CODE COMPLAINT FOR SPECIFIC SPACES.
4. THE DESIGNER MAY SUGGEST OTHER MATERIALS AND FINISHES OF EQUAL VALUE IF THEY BELIEVE THOSE PROPOSED MATERIALS AND FINISHES WILL SUPPORT THE DESIGN CONCEPT, PALETTE, BRANDING, AND/OR DESIGN INTENT OF THE PROJECT. COORDINATE ALL SUBSTITUTIONS WITH NCC.
5. COORDINATE POWER/DATA INFEEED, RECEPTACLE /GROMMET QUANTITIES AND LOCATIONS WITH FURNITURE AND EQUIPMENT.

CONFERENCE ROOM - SMALL

MATERIAL TAGGED VIEWS

INTERIOR FINISHES

- A. General Paint: **PNT-1**
- B. Accent Paint: *(Varies)* *
PNT-4
PNT-5
- C. Acoustic Wall Panels: *(Varies)* *
AWP-2
AWP-3
AWP-4
- D. Base: **RB-3**
- E. Windows: **WS-2**
- F. Flooring: **CPT-7**
- G. Ceiling: **CLG-3** *(Not Shown)*



SPECIALTIES

1. Whiteboard- **WB-1** or **WB-2**

* *These colors were selected to offer a range of options. Designer to coordinate with NCC for final selections and locations. Accent walls encouraged but not required everywhere.*

** *NCC to advise on existing or required technology to determine surface projection capabilities/needs for room.*

NOTES

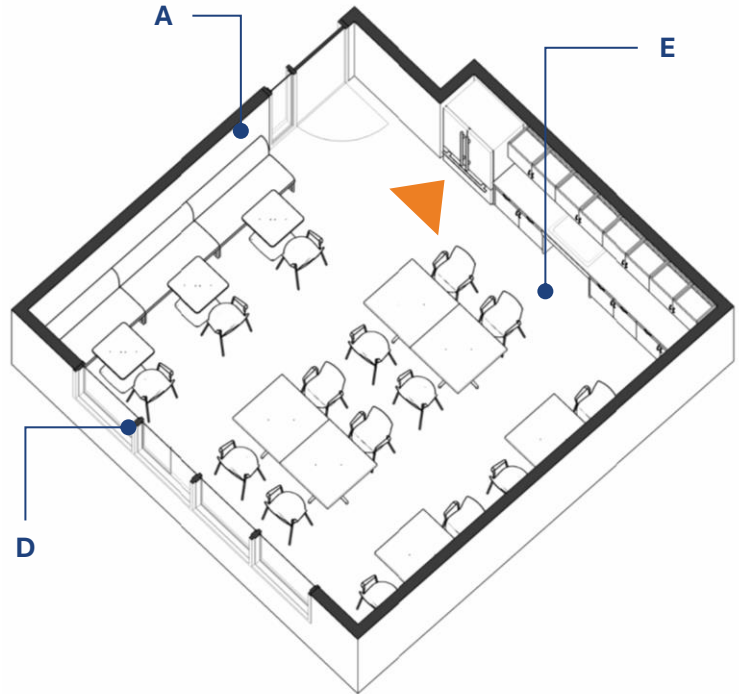
1. REFER TO MATERIAL SPECIFICATIONS AT THE BEGINNING OF THE GUIDELINES FOR PRODUCT INFORMATION.
2. THE DESIGNER SHOULD USE THIS GUIDE FOR SPECIFYING THE FINISHES ON NCC CAMPUS SITE PROJECTS.
3. THE INFORMATION DOES NOT RELIEVE THE DESIGNER OF SPECIFYING MATERIALS THAT ARE APPROPRIATE AND CODE COMPLAINT FOR SPECIFIC SPACES.
4. THE DESIGNER MAY SUGGEST OTHER MATERIALS AND FINISHES OF EQUAL VALUE IF THEY BELIEVE THOSE PROPOSED MATERIALS AND FINISHES WILL SUPPORT THE DESIGN CONCEPT, PALETTE, BRANDING, AND/OR DESIGN INTENT OF THE PROJECT. COORDINATE ALL SUBSTITUTIONS WITH NCC.
5. COORDINATE POWER/DATA INFED, RECEPTACLE /GROMMET QUANTITIES AND LOCATIONS WITH FURNITURE AND EQUIPMENT.

STAFF LOUNGE

MATERIAL TAGGED VIEWS

INTERIOR FINISHES

- A. Paint: **PNT-1**
- B. Accent Paint: **PNT-6**
- C. Base: **RB-2**
- D. Windows: **WS-2**
- E. Flooring: **LVT-2 ***
- F. Ceiling: **CLG-3 (Not Shown)**
- G. Millwork laminate: **PLAM-1**
- H. Solid Surface: **SS-1**
- I. Backsplash Tile: **PT-3**



SPECIALTIES

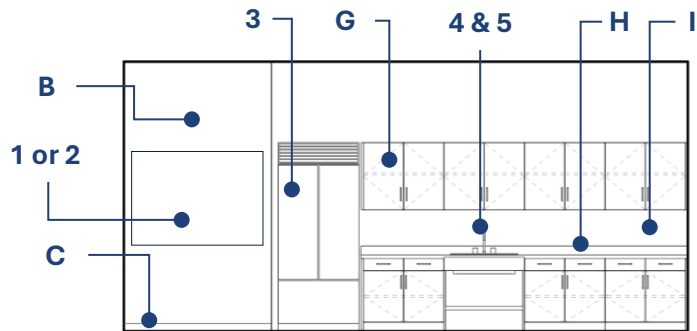
- 1. Tackboard: **TB-1**
- 2. Whiteboard- **WB1 or WB-2 ****
- 3. Refrigerator- **EQP- 14 *****
- 4. Kitchen Sink- **PLB-7 ******
- 5. Kitchen Faucet & Water Filter Faucet- **PLB-8**

* Recommended to use alternative PVC-free tile in lieu of LVT if possible.

** NCC to advise on existing or required technology to determine surface projection capabilities/needs for room.

*** Elevation is for reference only. Please refer to product spec page for refrigerator size and model.

**** ADA compliant knee space and millwork apron to be provided under the sink.



MILLWORK ELEVATION

NOTES

- 1. REFER TO MATERIAL SPECIFICATIONS AT THE BEGINNING OF THE GUIDELINES FOR PRODUCT INFORMATION.
- 2. THE DESIGNER SHOULD USE THIS GUIDE FOR SPECIFYING THE FINISHES ON NCC CAMPUS SITE PROJECTS.
- 3. THE INFORMATION DOES NOT RELIEVE THE DESIGNER OF SPECIFYING MATERIALS THAT ARE APPROPRIATE AND CODE COMPLAINT FOR SPECIFIC SPACES.
- 4. THE DESIGNER MAY SUGGEST OTHER MATERIALS AND FINISHES OF EQUAL VALUE IF THEY BELIEVE THOSE PROPOSED MATERIALS AND FINISHES WILL SUPPORT THE DESIGN CONCEPT, PALETTE, BRANDING, AND/OR DESIGN INTENT OF THE PROJECT. COORDINATE ALL SUBSTITUTIONS WITH NCC.
- 5. COORDINATE POWER/DATA INFED, RECEPTACLE /GROMMET QUANTITIES AND LOCATIONS WITH FURNITURE AND EQUIPMENT.

INTERIOR MATERIALS

SPECIFICATIONS

DIVISION 06

WOOD, PLASTICS & COMPOSITES

DIVISION 06 – MILLWORK HARDWARE


•**Product:** *Richelieu Contemporary Pull or approved equal*

•**Alternative manufacturers:** *Hickory Hardware*

•**Product Requirements:**

- ADA Compliant

DIVISION 06 - MILLWORK HARDWARE

DIVISION 06 - WOOD, PLASTICS & COMPOSITES - MILLWORK HARDWARE							
SPEC	IMAGE	MATERIAL TYPE	MANUFACTURER	SERIES/PATTERN	COLOR/FINISH	SIZE	COMMENTS
MTL-1		METAL PULL	RICHELIEU	MODERN METAL PULL - 873	BRUSHED NICKEL	NA	

DIVISION 06 - HIGH PRESSURE LAMINATE

•**Product:** *Wilsonart Laminate or approved equal*

•**Alternative manufacturers:** *Formica, Laminart*

•**Product Requirements:**

Product must meet or exceed minimum requirements for the following:

- LD3.3 test (light resistance)
- LD3.4 test (stain resistance)
- LD3.6 test (high temperature resistance)
- LD3.8 test (ball impact resistance)
- LD3.13 test (water resistance-cycles)



Codes and Specifications- product must meet or exceed requirements for the following:

- ASTM E-84
- U.S. Federal specification, LP-508-H, Style D, Type I, Class 1
- U.S. Military Specification, MIL-P-17171E(SH), Type I
- FMVSS 302
- NSF Standard 35
- ASTM-G22 Approved

Environmental;

- GREENGUARD Certification required

DIVISION 06 - HIGH PRESSURE LAMINATE

DIVISION 06 - WOOD, PLASTICS & COMPOSITES - PLASTIC LAMINATE							
SPEC	IMAGE	MATERIAL TYPE	MANUFACTURER	SERIES/PATTERN	COLOR/FINISH	SIZE	COMMENTS
PLAM-1		PLASTIC LAMINATE	WILSONART	#7981	LANDMARK WOOD/MATTE	NA	GRAIN DIRECTION: VERTICAL REFER TO ROOM TYPOLOGIES FOR LOCATIONS
PLAM-2		PLASTIC LAMINATE	WILSONART	#D96	SHADOW/ MATTE	NA	REFER TO ROOM TYPOLOGIES FOR LOCATIONS

DIVISION 08

OPENINGS

DIVISION 08 - OPENINGS


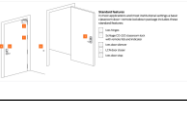
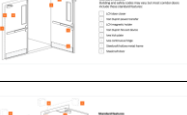
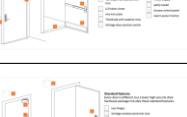

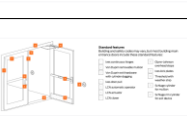


•**Product:** *Allegion or approved equal*

•**Alternative manufacturers:** *NCC to advise on preference*

•**Product Requirements:**

- Assembly Area Doors
 - Free ingress and egress
 - Doors can be secured after hours; access gained by a valid key
 - Free egress at all times
 - Exit devices wired to the fire alarm system
 - Quiet Electric Latch Retraction exit device
 - Auto openers (ADA compliant)
- Classrooms Doors
 - Doors can be locked or unlocked during the day per school requirement, but should always be closed
 - Doors can be secured after hours; access gained by a valid key
 - Free egress at all times
 - Lockdown achieved without exiting classroom
 - Three distinct classroom lockdown solutions:
 - Centralized lockdown
 - Local remote lockdown
 - Manual lockdown
- Corridor Doors
 - Doors normally held open
 - Magnetic holders are wired to the fire alarm system
 - Magnetic door holder releases upon a signal from the fire alarm system
- Emergency Exit Doors
 - Door is normally locked
 - Access is gained by a valid credential
 - Free egress is available at all times
- High Security Data, Asset and Lab Doors
 - Door is normally secured
 - Access is gained by a valid credential or keypad
 - Free egress is available at all times
- Secure Main Entry Doors
 - Doors can be locked or unlocked during the day
 - Doors are secured after hours; access is gained by a valid credential, key or staff release
 - Free egress is available at all times
- Unrestricted Main Entry Doors
 - Doors can be locked or unlocked during the day
 - Doors are secured after hours; access is gained by a valid credential, key or staff release
- Stairwell Doors
 - Free egress is available at all times
 - *Access with credential on pull side*
 - Upon fire alarm, lever unlocks
 - Doors with vision lights preferred

DIVISION 08 - OPENINGS

DIVISION 08 - OPENINGS							
SPEC	IMAGE	MATERIAL TYPE	MANUFACTURER	SERIES/PATTERN	COLOR/FINISH	SIZE	COMMENTS
		ASSEMBLY AREA DOORS	ALLEGION		REFER TO WEBSITE	REFER TO WEBSITE	
		CLASSROOM DOORS	ALLEGION		REFER TO WEBSITE	REFER TO WEBSITE	
		CORRIDOR DOORS	ALLEGION		REFER TO WEBSITE	REFER TO WEBSITE	
		EMERGENCY EXIT DOORS	ALLEGION		REFER TO WEBSITE	REFER TO WEBSITE	
		HIGH SECURITY DATA, ASSET AND LAB DOORS	ALLEGION		REFER TO WEBSITE	REFER TO WEBSITE	
		SECURE MAIN ENTRY DOORS	ALLEGION		REFER TO WEBSITE	REFER TO WEBSITE	
		UNRESTRICTED MAIN ENTRY DOORS	ALLEGION		REFER TO WEBSITE	REFER TO WEBSITE	
		STAIRWELL DOORS	ALLEGION		REFER TO WEBSITE	REFER TO WEBSITE	

DIVISION 09

FINISHES

DIVISION 9 - CEILINGS

- Product:** *Turf Plaid or approved equal*
- Alternative manufacturers:** *Acoufelt, Filzfelt*

- Product Requirements:**

- Acoustic Rating: NRC 0.60-0.90
- Fire Rating: 9mm ASTM E-84 - Class A & 9mm CAN/ULC-S102.2
- Felt Specification: Polyester (PET) felt 60% pre-consumer recycled

- Product:** *Armstrong Soundscapes Canopies or approved equal*
- Alternative manufacturers:** *USG*

- Product Requirements:**

- Fire Rating: Class A
- Light Reflect: .9
- Anti Mold & Mildew
- Sag Resistant
- Washable
- Scratch Resistant
- Soli Resistant
- High Warranty recommended
- Product in recycle program recommended
- Product with high recycled content recommended

- Product:** *Armstrong Ultima 9/16" Beveled Tegular or approved equal*
- Alternative manufacturers:** *USG*

- Product Requirements:**

- NRC rating of .65-.70
- Fire Rating: Class A
- Light Reflect: .90
- Anti-mold & Mildew
- Sag Resistant
- Certified Low VOC Emissions
- Washable
- Impact Resistant
- Scratch Resistant
- Soil Resistant
- Primary (Embodied) Energy below 11 MJ/SF
- High Warranty recommended
- Product in a recycle program recommended
- Product with high recycled content recommended

- Product:** *Armstrong Optima Health Zone 9/16" Square Tegular or approved equal*
- Alternative manufacturers:** *USG*

- Product Requirements:**

- NRC rating of .95
- AC: 190
- Fire Rating: Class A
- Light Reflect: .86
- Anti-Mold & Mildew

DIVISION 9 - CEILINGS

- Sag Resistant Water Repellent
- Washable
- Scrubbable
- Impact Resistant
- Scratch Resistant
- Soil Resistant
- Primary (Embodied) Energy below 11 MJ/SF
- High Warranty recommended
- Product in a recycle program recommended
- Product with high recycled content recommended

•**Product:** *American Gypsum M-Bloc Gypsum Board or approved equal*

•**Alternative manufacturers:** *USG*

•**Product Requirements:**

- Mold and moisture resistant wallboard
- Fire-resistant
- Meets ASTM D 3273
- GREENGUARD Certified required







•**Product:** *Armstrong Acoustibuilt Seamless or approved equal*

•**Alternative manufacturers:** *USG*

•**Product Requirements:**

- Fire Rating: Class A
- ASTM E1264 Classification
- NRC .80
- Anti-Mold & Mildew
- Humidity Resistance
- Sag Resistance

DIVISION 9 - CEILINGS

DIVISION 09 - FINISHES- CEILINGS							
SPEC	IMAGE	MATERIAL TYPE	MANUFACTURER	COLLECTION/ SERIES	COLOR/FINISH	SIZE	COMMENTS
CLG-1		SOUND ABSORBING PANELS	TURF	PLAID CEILING SCAPE	VARIES	VARIES	COLOR TO MATCH ROOM COLOR SCHEME: 01 CREAM / 04 LIGHT GREY / 18 ULTISOL / 24 ROYAL BLUE
CLG-2		SOUND ABSORBING PANELS	ARMSTRONG	SOUNDSCAPES BASICS ACOUSTICAL CANOPIES	WHITE		
CLG-3		ACOUSTICAL PANEL CEILING	ARMSTRONG	ULTIMA HIGH NRC 9/16" BEVELED TEGULAR - 208Z	WHITE	24" X 24" -1" THICKNESS	GRID: SUPRAFINE 9/16" SUSPENSION SYSTEM
CLG-4		ACOUSTICAL PANEL CEILING	ARMSTRONG	OPTIMA HEALTH ZONE9/16" SQUARE TEGULAR - 3216PB	WHITE	24" X 24" -1" THICKNESS	GRID: SUPRAFINE 9/16" SUSPENSION SYSTEM
CLG-5		GYPSUM BOARD	AMERICAN GYPSUM	M-BLOC WITH MOLD AND MOISTURE RESISTANCE	SHERWIN WILLIAMS 7006 - EXTRA WHITE		
CLG-6		ACOUSTICAL PLASTER SURFACING	ARMSTRONG	ACOUSTIBUILT SEAMLESS ACOUSTICAL CEILING SYSTEM	SHERWIN WILLIAMS 7006 - EXTRA WHITE		

DIVISION 9 - TILING

•**Product:** *Daltile Core Fundamentals Ceramic Floor Tile or approved equal*

•**Alternative manufacturers:** *Marazzi, Caesar Ceramics (alternative option provided in product schedule)*

•**Product Requirements:**

- Water Absorption: ASTM C373. *No greater than 3.0*
- Breaking Strength: ASTM C648. *Greater than 275 lbs*
- Scratch Hardness: ASTM MOHS. *8*
- Chemical Resistance: ASTM C650. *Resistant*

•**Product:** *Daltile Portfolio Porcelain Floor & Wall Tile or approved equal*

•**Alternative manufacturers:** *Marazzi, Caesar Ceramics (alternative option provided in product schedule)*

•**Product Requirements:**

- Water absorption: ASTM C373. *No greater than 7.0*
- Breaking Strength: ASTM C648. *Greater than 250 lbs*
- Scratch Hardness: ASTM MOHS. *8*
- Chemical Resistance: ASTM C650. *Resistant*

•**Product:** *Daltile Color Wheel Classic Porcelain Wall Tile or approved equal*

•**Alternative manufacturers:** *Marazzi, Caesar Ceramics (alternative option provided in product schedule)*

•**Product Requirements:**

- Water absorption: ASTM C373. *No greater than 20.0*
- Breaking Strength: ASTM C648. *120-230 lbs*
- Scratch Hardness: ASTM MOHS. *4.0-6.0*
- Chemical Resistance: ASTM C650. *Resistant*

•**Product:** *Caesar Ceramics Link Porcelain Tile (provided as an alternative)*

•**Product Requirements:**








- Water absorption: ASTM C373: *≤0,5%. Passed "impervious tiles" Class P1*
- Breaking Strength: ASTM C648: *≥250 lbs. ≥ 400 lbs*
- Chemical Resistance: ASTM C650. *Unaffected*
- Dynamic Coefficient of Friction: *0,42. In accordance*
- Freeze thaw: ASTM C1026: *No damages. In accordance*

•**Product:** *Caesar Ceramics Waves Porcelain Floor & Wall Tile (provided as an alternative)*

•**Product Requirements:**

- Water absorption: ASTM C373: *≤0,5%. Passed "impervious tiles" Class P1*
- Breaking Strength: ASTM C648: *≥250 lbs. ≥ 400 lbs*
- Chemical Resistance: ASTM C650. *Unaffected*
- Dynamic Coefficient of Friction: ANSI A326.3
 - Declare, *WET DOCF ≥0.42*
 - Classified, *Interior wet*
- Freeze thaw: ASTM C1026: *No damages. In accordance*

DIVISION 9 - TILING

DIVISION 09 - FINISHES - TILING							
		MATERIAL TYPE	MANUFACTURER	COLLECTION/ SERIES	COLOR/FINISH	SIZE	COMMENTS
CT-1		CERAMIC TILE	DALTILE	CORE FUNDAMENTALS - PRIME	VITALITY WHITE, MATTE FINISH	24" X 24"	INSTALLATION: STACKED BOND BULLNOSE TILE BASE P43F9
PT-1		PORCELAIN TILE	DALTILE	PORTFOLIO	DOVE GRAY, MATTE FINISH	12" X 24"	INSTALLATION: OFFSET COVERED TILE BASE P36C9
PT-2		PORCELAIN TILE	DALTILE	PORTFOLIO	WHITE, MATTE FINISH	6" X 24"	INSTALLATION: HORIZONTAL STACKED WALLS
PT-3		PORCELAIN TILE	DALTILE	COLOR WHEEL CLASSIC	MATTE ARCTIC WHITE, MATTE FINISH	3" X 6"	INSTALLATION: HORIZONTAL STACKED WALLS
PT-4		PORCELAIN TILE	CAESAR CERAMICS	LINK	TIE	24" X 24"	INSTALLATION: OFFSET BULLNOSE TILE BASE TO BE USED AS AN ALTERNATIVE FOR CORRIDORS
PT-5		PORCELAIN TILE	CAESAR CERAMICS	WAVES	LAGUNA	12" X 24" & 6" X 24"	INSTALLATION: OFFSET COVERED TILE BASE TO BE USED AS AN ALTERNATIVE FOR RESTROOMS WITH PT-6
PT-6		PORCELAIN TILE	CAESAR CERAMICS	WAVES	MALIBU	BRICK 12" X 16"	INSTALLATION: BRICK TO BE USED AS AN ALTERNATIVE FOR RESTROOMS WITH PT-5










DIVISION 9 - INTERIOR PAINTING

•**Product:** *Sherwin Williams* (NCC to provide paint spec)

•**Product Requirements:**

- Paint colors are to be chosen from the NCC approved list. See spec chart on following page. Non-standard paint colors are to be reviewed by Facilities at the initial stages of design for approval or rejection.
- Primers or bonding agent's requirements are to be based off the existing conditions throughout campus and are to be selected/specified during the construction documentation phase.

DIVISION 9 - INTERIOR PAINTING

DIVISION 09 - FINISHES - INTERIOR PAINTING							
		MATERIAL TYPE	MANUFACTURER	COLLECTION/ SERIES	COLOR/FINISH	SIZE	COMMENTS
PNT-1		PAINT	SHERWIN WILLIAMS		SW 7005 PURE WHITE		
PNT-2		PAINT	SHERWIN WILLIAMS		SW 7016 MINDFUL GRAY		
PNT-3		PAINT	SHERWIN WILLIAMS		SW 6249 STORM CLOUD		
PNT-4		PAINT	SHERWIN WILLIAMS		SW 6248 JUBILEE		
PNT-5		PAINT	SHERWIN WILLIAMS		SW 7018 DOVETAIL		
PNT-6		PAINT	SHERWIN WILLIAMS		SW 9141 WATERLOO		
PNT-7		PAINT	SHERWIN WILLIAMS		SW 7006 EXTRA WHITE		
PNT-8		PAINT	SHERWIN WILLIAMS				TO MATCH NCC PRIMARY ORANGE / PMS: 152C / CMYK: 3, 61, 100, 0 / RGB: 237, 127, 35 / HEX: #EC7E22
PNT-9		PAINT	SHERWIN WILLIAMS				TO MATCH NCC PRIMARY BLUE / PMS: 281C / CMYK: 100, 72, 0, 32 / RGB: 0, 62, 126 / HEX: #003D7D

DIVISION 9 – SOUND ABSORBING WALL UNITS





•**Product:** *Momentum Solid Color acoustic Panels or approved equal*

•**Alternative manufacturers:** *BuzziSpace, Acoufelt*

•**Product Requirements:**

- Flame Resistance: ASTM E 84 Class A
- Color Fastness: A4.5 – AATCC 16 opt 3, CLASS 4.5
- NRC Rating: 0.45-0.90
- Maintenance: R – Request Detailed Instructions. Bleach Cleanable (10:1)

DIVISION 9 - SOUND ABSORBING WALL UNITS

DIVISION 09 - FINISHES - SOUND ABSORBING WALL UNITS							
		MATERIAL TYPE	MANUFACTURER	COLLECTION/ SERIES	COLOR/FINISH	SIZE	COMMENTS
AWP-1		SOUND ABSORBING WALL PANELS- ACOUSTIC WALL PANELS	MOMENTUM	SOLID COLOR ACOUSTIC PANELS	TERRACOTTA	48" X 120"	
AWP-2		SOUND ABSORBING WALL PANELS- ACOUSTIC WALL PANELS	MOMENTUM	SOLID COLOR ACOUSTIC PANELS	INDIGO	48" X 120"	
AWP-1		SOUND ABSORBING WALL PANELS- ACOUSTIC WALL PANELS	MOMENTUM	SOLID COLOR ACOUSTIC PANELS	SHALE	48" X 120"	
AWP-2		SOUND ABSORBING WALL PANELS- ACOUSTIC WALL PANELS	MOMENTUM	SOLID COLOR ACOUSTIC PANELS	HEATHER GRAY	48" X 120"	

DIVISION 9 – RESILIENT BASE & ACCESSORIES

•**Product:** *Johnsonite Baseworks Thermoset Rubber Base or approved equal*

•**Alternative manufacturers:** *Roppe, Flexco*

•**Product Requirements:**

- Resistance to Heat (ASTM F1514): ≤ 8
- Residual Indentation (ASTM F1914): False
- Flammability (ASTM E648): Class 1
- Smoke Density (ASTM E648): LT450
- Biobased Content
- 100% Recyclable
- Material Assessment Cradle to Cradle Certified V.3 Silver
- No Dye Lots
- Non-PVC

•**Product:** *Nora Sanitary Base or approved equal*

•**Alternative manufacturers:** *Tarkett*

•**Product Requirements:**

- ASTM F1861 Standard Specification for Resilient Wall Base: Type TP: Thermoplastic Rubber, Group 1
- Flammability (E648/NFPA 253): ≥ 0.45 watts/sq cm for Class 1 is required: NBSIR 75 950, 1.0.
- Smoke Density (ASTM E662/NFPA 258): < 450 is required: NBS, 147 (flaming) and 249 (non-flaming)
- Bacteria Resistance (ASTM E2180/ASTM G21): Resistant to bacteria, fungi, and micro-organism activity
- GREENGUARD Gold Certified







•**Product:** *JOHNSONITE Angle Fit Rubber Stair Tread or approved equal*

•**Alternative manufacturers:** *Roppe, Flexco*

•**Product Requirements:**

- Resistance to Heat (ASTM F1514): ≤ 8
- Residual Indentation (ASTM F1914): False
- Static Coefficient of Friction (ASTM D2047): ≥ 8
- Flammability (ASTM E648): Class 1
- Material Assessment Cradle to Cradle Certified V3. 1 Silver

DIVISION 9 – RESILIENT BASE & ACCESSORIES

DIVISION 09 - FINISHES - RESILIENT BASE & ACCESSORIES							
		MATERIAL TYPE	MANUFACTURER	COLLECTION/ SERIES	COLOR/FINISH	SIZE	COMMENTS
RB-1		RESILIENT BASE	JOHNSONITE	BASEWORKS THERMOSET RUBBER BASE	283 TOAST	4" H	USE STRAIGHT BASE FOR CARPETED AREAS. USE COVE BASE FOR OTHER FLOOR TREATMENTS.
RB-2		RESILIENT BASE	JOHNSONITE	BASEWORKS THERMOSET RUBBER BASE	T06 MINK	4" H	USE STRAIGHT BASE FOR CARPETED AREAS. USE COVE BASE FOR OTHER FLOOR TREATMENTS.
RB-3		RESILIENT BASE	JOHNSONITE	BASEWORKS THERMOSET RUBBER BASE	29 MOON ROCK	4" H	USE STRAIGHT BASE FOR CARPETED AREAS. USE COVE BASE FOR OTHER FLOOR TREATMENTS.
RB-4		RESILIENT BASE	NORA	SANITARY BASE	7035	6" H	TO BE USED WITH RESILIENT SHEET FLOORING
RB-5		RESILIENT BASE	NORA	SANITARY BASE	6528	6" H	TO BE USED WITH RESILIENT SHEET FLOORING
RS-1		RESILIENT STAIR ACCESSORIES	TARKETT	JOHNSONITE ANGLE FIT RUBBER STAIR TREADS	38 PEWTER	VARIES	

DIVISION 9 – RESILIENT FLOORING

•**Product:** *Noraplan Unita Rubber Flooring or approved equal*

•**Alternative manufacturers:** *Tarkett*

•**Product Requirements:**

- ASTM F1344 Classification (Type 1, Grade 1)
- Specifications- product must meet or exceed requirements for the following:
 - Critical Radiant Flux ASTM E648 (min ≥ 0.45)
 - Smoke Density ASTM E662 (both <450) flaming/non flaming
 - Static Coefficient of Friction ASTM D2047 (dry/wet)
 - Abrasion ASTM D3389 H-18 wheel 1.1 lbs load and 1000 cycles (<0.035 oz. required)
 - Shore Hardness Type A ASTM D2240
 - Static Load Limit (Residual Compression) ASTM F970 with 800 lbs/psi
 - Heat Resistance ASTM F1514, require Avg. $\Delta E \leq 8.0$
 - Light Resistance ASTM F1515, require Avg. $\Delta E \leq 8.0$
 - Sounds Absorption E2179 (ΔIIC only)
 - Sound Absorption ISO 140 (ΔLw only)
 - Chemical Resistance
- Environmental:
 - Bacteria Resistance ASTM E2180 and ASTM G21 Recommended
 - Product that is GREENGUARD Certified for Low VOC Emission Required
 - CA 01350 Compliant Product Recommended






•**Product:** *Interface Earthen Forms Luxury Vinyl Tile or approved equal (alternative option provided in product schedule)*

•**Alternative manufacturers:** *Shaw Contract*

•**Product Requirements:**

- ASTM F1700 Class III Printed Vinyl Tile
- Specifications- product must meet or exceed requirements for the following:
 - IIC Sound Rating ASTM E492-09: *64 IIC*
 - Slip Resistance ASTM D2047: *>0.55 wet/dry, ADA compliant*
 - Static Load Limit ASTM F970: *1500 psi*
 - Flexibility ASTM F137: *Passes*
 - Heat Resistance ASTM F1514: *Passes*
 - Light Resistance ASTM F1515: *Passes*
 - Smoke Density ASTM E-662 : *≤ 450*
 - Size & Squareness ASTM F2055: *Passes, +/- 0.016in per linear foot*
 - Thickness ASTM F386: *Passes*
 - Dimensional Stability (ASTM F2199): *Passes*
 - Residual Indentation ASTM F1914: *Passes*
 - Chemical Resistance ASTM F925: *Passes*
- Environmental:
 - Product that is GREENGUARD Certified for Low VOC Emission Required
 - CA 01350 Compliant Product Recommended
 - Recommended to use alternative options provided in guidelines in lieu of LVT products:
 - **Shaw Contract PVC free flooring (LVT-3)**

DIVISION 9 - RESILIENT FLOORING

DIVISION 09 - FINISHES - RESILIENT FLOORING							
		MATERIAL TYPE	MANUFACTURER	COLLECTION/ SERIES	COLOR/FINISH	SIZE	COMMENTS
RSF-1		RESILIENT SHEET FLOORING	NORA/INTERFACE	NORAPLAN UNITA	7101 HERE-N-THERE	1.22M X 15.0M - 2.0MM THICKNESS	USE AS GENERAL FLOORING IN LABORATORIES. INSTALL IN CIRCULATION. REFER TO RESILIENT BASE FOR SANITARY BASE INFORMATION.
RSF-2		RESILIENT SHEET FLOORING	NORA/INTERFACE	NORAPLAN UNITA	7119 WET-N-DRY	1.22M X 15.0M - 2.0MM THICKNESS	USE AS ACCENT FLOORING IN LABORATORIES. INSTALL AROUND ISLAND CASEWORK. REFER TO RESILIENT BASE FOR SANITARY BASE INFORMATION.
LVT-1		RESILIENT TILE FLOORING / LUXURY VINYL TILE	INTERFACE	EARTHEN FORMS COLLECTION - ON GRAIN 4.5MM	A03301 WHITE OAK VENEER	25CM X 1 CM - 4.5MM THICKNESS	INSTALLATION: ASHLAR
LVT-2		RESILIENT TILE FLOORING / LUXURY VINYL TILE	INTERFACE	BRUSHED LINES AND DRAWN LINES COLECTION - BRUSHED LINES 4.5MM	A01611 MOUSSE	25CM X 1 CM - 4.5MM THICKNESS	INSTALLATION: ASHLAR
LVT-3		RESILIENT TILE FLOORING / LUXURY VINYL TILE	SHAW CONTRACT	PVC FREE FLOORING- PIVOT	REFORM 00111	21 CM x 129 CM	INSTALLATION: ASHLAR



DIVISION 9 – RESINOUS MATRIX TERRAZZO

•**Product:** *Terroxy Resin System – Thin Set Epoxy terrazzo or approved equal*

•**Product Requirements:**

- Specifications- product must meet or exceed requirements for the following:
 - Hardness- ASTM D-2240 using Shore-D Durometer
 - Tensile Strength – ASTM D-638
 - Compressive Strength – ASTM D-695 Specimen B Cylinder
 - Flexural Strength
 - Chemical Resistance – ASTM D-1308 seven days at room temperature by immersion method
 - Flammability – ASTM D-635
 - Thermal Coefficient of Linear Expansion – ASTM D-696
 - Bond Strength – ACI COMM 403

DIVISION 9 - RESINOUS MATRIX TERRAZZO

DIVISION 09 - FINISHES - RESINOUS MATRIX TERRAZZO							
		MATERIAL TYPE	MANUFACTURER	COLLECTION/ SERIES	COLOR/FINISH	SIZE	COMMENTS
TZ-1		TERRAZZO	TERROXY		MB24-041		INTEGRAL BASE HEIGHT: 6"
TZ-2		TERRAZZO	TERROXY		MB20-009		INTEGRAL BASE HEIGHT: 6"

DIVISION 9 - CARPETING

- Product:** *Interface Woven Gradience, Open Air & Third Space Carpet Tiles or approved equal*
- Alternative manufacturers:** *Shaw Contract*

- Product Requirements:**

- 100% solution Dyed
- 100% Recycled Content Nylon
- CQuest™BioX backing
- Tufted Yarn Weight of 23 oz/yd²

- Product:** *Interface NY + LON Streets or approved equal*
- Alternative manufacturers:** *Shaw Contract*

- Product Requirements:**

- 100% solution Dyed
- Post Consumer Content Nylon
- CQuest™Bio backing
- Tufted Yarn Weight of 23 oz/yd²

- Product:** *Interface Step Repeat Carpet Tile or approved equal*
- Alternative manufacturers:** *Shaw Contract*

- Product Requirements:**

- 100% solution Dyed
- 100% Recycled Content Nylon
- CQuest™Bio backing
- Tufted Yarn Weight of 27 oz/yd²

- Product:** *Shaw Contract Grove Broadloom or approved equal*
- Alternative manufacturers:** *Mohawk Group*

- Product Requirements:**

- 100% solution Dyed
- Classicbac backing
















Specifications: products must meet or exceed requirements for the following

- Floor Radiant Panel - (ASTM E-648) Class 1
- Smoke Density - (ASTM E648) ≤ 450
- Lightfastness - (AATCC 16 - E) $\geq 4.0 @60$ AFU's
- Static - (AATCC - 134) < 3.0 KV
- Dimensional Stability - AACHEN Din 64318 $< .10\%$
- Traffic Classification - Severe
- Fiber Modification Ratio - 1.7 to 1.9
- Preservative Efficacy - (AATCC 174 Parts 2&3) 99%
Reduction/No Mold 7 Days
(ASTM E-2471) Complete Inhibition

Environmental

- Recycled content to be a minimum of 50%
- Green Label Plus is encouraged
- A product that is part of the Environmental Product Declaration s encouraged
- End of Life - Carpet to Carpet Recycling is encouraged

DIVISION 9 - CARPETING

DIVISION 09 - FINISHES - CARPET							
		MATERIAL TYPE	MANUFACTURER	COLLECTION/ SERIES	COLOR/FINISH	SIZE	COMMENTS
CPT-1A		TILE CARPETING	INTERFACE	WOVEN GRADIENCE COLLECTION - WG100	108049 GREIGE	50CM X 50CM	INSTALLATION: REFER TO ROOM TYPOLOGIES FOR INSTALLATION METHOD
CPT-1B		TILE CARPETING	INTERFACE	WOVEN GRADIENCE COLLECTION - WG200	107667 GREIGE/CLAY	50CM X 50CM	INSTALLATION: REFER TO ROOM TYPOLOGIES FOR INSTALLATION METHOD
CPT-1C		TILE CARPETING	INTERFACE	WOVEN GRADIENCE COLLECTION - WG100	108055 CLAY	50CM X 50CM	INSTALLATION: REFER TO ROOM TYPOLOGIES FOR INSTALLATION METHOD
CPT-2A		TILE CARPETING	INTERFACE	WOVEN GRADIENCE COLLECTION - WG100	108052 UMBER	50CM X 50CM	INSTALLATION: REFER TO ROOM TYPOLOGIES FOR INSTALLATION METHOD
CPT-2B		TILE CARPETING	INTERFACE	WOVEN GRADIENCE COLLECTION - WG200	107674 UMBER/NAVY	50CM X 50CM	INSTALLATION: REFER TO ROOM TYPOLOGIES FOR INSTALLATION METHOD
CPT-2C		TILE CARPETING	INTERFACE	WOVEN GRADIENCE COLLECTION - WG100	108061 NAVY	50CM X 50CM	INSTALLATION: REFER TO ROOM TYPOLOGIES FOR INSTALLATION METHOD
CPT-3A		TILE CARPETING	INTERFACE	NY+LON STREET COLLECTION- BROOME STREET	106211 BRICK GLASS	50CM X 50CM	INSTALLATION: REFER TO ROOM TYPOLOGIES FOR INSTALLATION METHOD
CPT-3B		TILE CARPETING	INTERFACE	NY+LON STREET COLLECTION- MERCER STREET	105763 BROWN CIRCLE	50CM X 50CM	INSTALLATION: REFER TO ROOM TYPOLOGIES FOR INSTALLATION METHOD
CPT-4A		TILE CARPETING	INTERFACE	NY+LON STREET COLLECTION- BROOME STREET	106216 BLUE GLASS	50CM X 50CM	INSTALLATION: REFER TO ROOM TYPOLOGIES FOR INSTALLATION METHOD
CPT-4B		TILE CARPETING	INTERFACE	NY+LON STREET COLLECTION- MERCER STREET	105768 SLATE CIRCLE	50CM X 50CM	INSTALLATION: REFER TO ROOM TYPOLOGIES FOR INSTALLATION METHOD
CPT-5		TILE CARPETING	INTERFACE	OPEN AIR COLLECTION - 407	106776 NATURAL	25CM X 1CM	INSTALLATION: ASHLAR
CPT-6		TILE CARPETING	INTERFACE	THIRD SPACE COLLECTION - 301	107848 NATURAL	50CM X 50CM	INSTALLATION: MONOLITHIC
CPT-7		TILE CARPETING	INTERFACE	OPEN AIR COLLECTION - 404	106749 NATURAL	50CM X 50CM	INSTALLATION: NON DIRECTIONAL
CPT-8		TILE CARPETING	INTERFACE	STEP REPEAT COLLECTION SR899	104940 IRON	50CM X 50CM	INSTALLATION: MONOLITHIC
CPT-9		SHEET CARPETING / BROADLOOM	SHAW CONTRACT	GROVE-5A234	72530 METRO	12' ROLL	INSTALLATION:

DIVISION 10

SPECIALTIES

DIVISION 10 - VISUAL DISPLAY UNITS

•**Product:** *Forbo Bulletin Board Tackboard or approved equal*

•**Alternative manufacturers:** *Ghent, Koroseal*

•**Product Requirements:**

- Meets or exceeds all technical requirements as set forth in ASTM F 2034.
- Standard Specification for Linoleum Sheet Flooring.
- Type I
- Platinum certified in accordance with SMaRT Sustainable Products Standard, led by the Institute for Market Transformation to Sustainability (MTS)
- Compliant with CHPS 01350 requirements for VOC emissions and indoor air quality.
- Resistance to bacteria
- Naturally anti-static.
- Fire Testing Class B in accordance to ASTM E 84/NFPA 255, Standard Test Method for Surface Burning Characteristics.
- FSC1 - 54; SD - 316 when tested in accordance to CAN/ULC S102, Standard Test Method for Flame Spread Rating and Smoke Development.
- 5 year warranty

•**Product:** *Ghent Magnetic Writable Porcelain Whiteboard or approved equal*

•**Alternative manufacturers:** *Optima*

•**Product Requirements:**

- Framing and detached accessory tray: satin anodized aluminum extrusion.
- Writing porcelain: white porcelain coated 28 gauge - steel laminated to 3/8" thick fiberboard, with an aluminum plated polyester film backing.
- Silk Finish
- Aluminum frame option
- Blade Tray option
- 50 year warranty
-

•**Product:** *Ghent Proma Projection Porcelain Whiteboard or approved equal*

•**Alternative manufacturers:** *Optima*

•**Product Requirements:**

- Framing and detached accessory tray: satin anodized aluminum extrusion.
- Writing porcelain: white porcelain enameled aluminized steel sheet laminated to 1/4" thick hardboard, with an aluminum plated polyester film backing.
- Silk Finish
- Aluminum frame option
- Blade Tray option
- 50 year warranty





DIVISION 10 – VISUAL DISPLAY UNITS

•**Product:** *Clarus View Glass Whiteboard + Projector Screen Combo*

•**Product Requirements:**

- ¼" Clarus tempered safety writing glass.
- Non-staining writing surface
- Compatible with any marker, including permanent
- Clarus Opti-Clear Polish
- Starphire Glass
- Clear Anodized aluminum frame

DIVISION 10 - VISUAL DISPLAY UNITS

DIVISION 10 - SPECIALTIES - VISUAL DISPLAY UNITS							
SPEC		MATERIAL TYPE	MANUFACTURER	SERIES/PATTERN	COLOR/FINISH	SIZE	COMMENTS
TB-1		TACKBOARD	FORBO	BULLETIN BOARD	VARIES	REFER TO WEBSITE	
WB-1		WHITEBOARD	GHENT	MAGNETIC-WRITABLE PORCELAIN WHITEBOARD. SILK FINISH	WHITE	VARIES. REFERTO WEBSITE	
WB-2		WHITEBOARD	GHENT	PROMA PROJECTION WHITEBOARD, DRY ERASE PROJECTION SURFACE	WHITE	VARIES. REFER TO WEBSITE	PROVIDE MAGNETIC CAPABILITIES
WB-3		WHITEBOARD	CLARUS	VIEW GLASS WHITEBOARD + PROJECTOR SCREEN COMBO	WHITE	VARIES. REFER TO WEBSITE	

DIVISION 10 - TOILET ACCESSORIES

- Product:** *Rubbermaid Manual Foam Dispenser or approved equal*
- Alternative manufacturers:** *Technical Concepts, Georgia Pacific, Uline*

- Product Requirements:**

- ADA compliant
- Antimicrobial push bar
- Up to 2,000 hand washes per refill

- Product:** *Bobrick ADA Recessed Hand Dryer or approved equal*

- Alternative manufacturers:** *American Specialties*

- Product Requirements:**

- Type-304 stainless steel with all -welded construction
- Recessed
- CE marked and cULlisted
- NCC to advise on locations for over the sink alternative:
 - **Sloan Optima Hand Dyer (EQP-14)**

- Product:** *Bobrick Contura Series Recessed Napkin/Tampon Vendor or approved equal*

- Alternative manufacturers:** *American Specialties*

- Product Requirements:**

- Type-304, heavy gauge stainless steel with all-welded construction
- Recessed
- No Coin operation
- Impact resistant PC-ABS

- Product:** *Bobrick Recessed Waste receptacle or approved equal*

- Alternative manufacturers:** *American Specialties*

- Product Requirements:**

- Recessed
- Capacity to be 12.8 gallons or greater

- Product:** *Bobrick Surface Mounted Sanitary Napkin Disposal or approved equal*

- Alternative manufacturers:** *American Specialties*

- Product Requirements:**

- Type-304, heavy gauge stainless steel with all -welded construction
- Surface Mounted
- Capacity: 0.6 gallons
- Can be mounted on particle board or other solid partitions, hollow core metal partitions, plaster or drywall)

- Product:** *ASI Jumbo Roll Toilet Tissue dispenser*

- Product Requirements:**

- Door equipped with lock
- Sprindell shall accommodate one toilet tissue roll up to 10" diameter with a 2-1/8" diameter core roll or 1-5/8" diameter core roll by adding rubber o-rings (included)
- Can be mounted on particle board or other solid partitions, hollow core metal partitions, plaster or drywall)

DIVISION 10 - TOILET ACCESSORIES

•**Product:** *Bobrick Welded-Frame Mirror or approved equal*

•**Alternative manufacturers:** *American Specialties*

•**Product Requirements:**

- 18-8, heavy-gauge stainless steel, 3/4" x 3/4" (19 x 19mm) angle with satin finish or matte black, as specified.
- No.1 quality, 1/4 " (6mm) select float glass (standard glass): selected for silvering, electrolytically copper-plated by the galvanic process, and guaranteed for 15 years against silver spoilage. All edges protected by plastic filler strips.
- Heavy gauge steel construction concealed wall hanger.

•**Product:** *Bobrick Koala Horizontal Surface Mounted Baby Changing Station or approved equal*

•**Alternative manufacturers:** *American Specialties*

•**Product Requirements:**

- Durable, injection-molded polypropylene
- Pneumatic cylinder to provide controlled, slow opening and closing of bed
- No hinge structure shall be exposed on interior or exterior surfaces
- Microban antimicrobial embedded into plastic material on changing surface
- Bed shall have smooth concave changing area with nylon safety strap
- Built in Liner Dispenser
- Instructional graphics and instructions in 4 different languages and braille
- Conforms to or complies with:
 - 2010 ADA Standard for Accessible Design
 - 2009 ICC A117.2. Accessible and Usable Buildings and Facilities
 - ASTM F 2285-04 Standard safety Performance Specification for Diaper Changing Tables for Commercial Use
 - ANSI Z535.4 Product Safety Signs and Labels
 - EN 12221:2008
 - ASTM G22 Antibacterial standards or local code if more stringent installation requirements are applicable for Barrier-Free Accessibility

•**Product:** *Bobrick Surface Mounted hat and Coat Hook or approved equal*

•**Alternative manufacturers:** *American Specialties*

•**Product Requirements:**

- 22 gauge flange and support arm.
- 16 gauge mounting bracket (concealed)
- Can be mounted on particle board partitions, hollow core metal partitions, plaster or drywall

•**Product:** *Flush Metal Flush Hung Partitions or approved equal*

•**Alternative manufacturers:** *Bobrick*

•**Product Requirements:**

- Stainless Steel #4 finish

DIVISION 10 - TOILET ACCESSORIES

•**Product:** *Bobrick Floor standing Waster Receptacle or approved equal*

•**Alternative manufacturers:** *American Specialties*

•**Product Requirements:**

- Type-304, 16 gauge (1.6mm) stainless steel with satin finish.
- One-piece funnel top shall have 8-1/4" (210mm) diameter opening.
- Bottom of receptacle shall be recessed 1/2" (13mm) and equipped with four heavy duty rubber feet that elevate receptacle slightly off floor.
- Removable, rigid plastic liner shall have a wire handle and a minimum capacity of 33-gal. (125-L)

•**Product:** *Bobrick 1 1/4" diameter stainless steel grab bars or approved equal*

•**Alternative manufacturers:** *American Specialties*

•**Product Requirements:**

- Shall be Type-304 stainless steel with a satin-finish, slip-resistant surface.
- Grab bar shall comply with accessible design (including ADAAG in the U.S.A.) for structural strength

DIVISION 10 - TOILET ACCESSORIES

DIVISION 10 - SPECIALTIES - TOILET, BATH AND LAUNDRY ACCESSORIES							
SPEC		MATERIAL TYPE	MANUFACTURER	COLLECTION/ SERIES	COLOR/FINISH	SIZE	COMMENTS
EQP-1		SOAP DISPENSER	RUBBERMAID	MANUAL FOAM DISPENSER - SKU:FG450017	WHITE	REFER TO SPEC	
EQP-2		HAND DRYER	BOBRICK	BOBRICK ADA RECESSED HAND DRYER B3725	SATIN-FINISH STAINLESS STEEL	REFER TO SPEC	NCC TO ADVISE ON LOCATIONS. FOR OVER THE SINK ALTERNATIVE REFER TO EQP-14 SPEC
EQP-3		NAPKIN/TAMPON VENDOR MACHINE	BOBRICK	BOBRICK CONTURA SERIES B-4701C RECESSED FREE NO-COIN OPERATION	SATIN-FINISH STAINLESS STEEL	REFER TO SPEC	
EQP-4		WASTE RECEPTACLE	BOBRICK	#B-4364L RECESSED WASTE RECEPTACLE WITH LINER/MATE	SATIN-FINISH STAINLESS STEEL	REFER TO SPEC	
EQP-5		SANITARY NAPKIN DISPOSAL	BOBRICK	#B-35139, SURFACE-MOUNTED SANITARY NAPKIN DISPOSAL	SATIN-FINISH STAINLESS STEEL	REFER TO SPEC	
EQP-6		TOILET TISSUE DISPENSER	ASI (AMERICAN SPECIALTIES, INC.)	#D04L JUMBO ROLL TOILET TISSUE DISPENSER - SURFACE MOUNTED	SATIN-FINISH STAINLESS STEEL	REFER TO SPEC	
EQP-7		WALL HUNG MIRROR	BOBRICK	#B-290 SERIES, WELDED-FRAME MIRROR	SATIN-FINISH STAINLESS STEEL	VARIES	
EQP-8		BABY CHANGING STATION	BOBRICK	KB310-SSWM HORIZONTAL SURFACE-MOUNTED	SATIN-FINISH STAINLESS STEEL	REFER TO SPEC	
EQP-9		COAT HOOK	BOBRICK	#B-682 / B-6827 SURFACE MOUNTED HAT AND COAT HOOK	SATIN-FINISH	REFER TO SPEC	
EQP-10		TOILET PARTITIONS	FLUSH METAL PARTITIONS	FLUSHHUNG PARTITIONS	STAINLESS STEEL	REFER TO SPEC	
EQP-11		SOAP DISPENSER	TOTO	AUTOSENSOR SOAP DISPENSER SKU: TES2014AACP	POLISHED CHROME	REFER TO SPEC	TO BE USED IN STAFF RESTROOMS ONLY
EQP-12		FLOOR STANDING WASTE RECEPTACLE	BOBRICK	FLOOR STANDING WASTE RECEPTACLE, FUNNEL TOP B-2400, 33 GALLON	SATIN FINISH STAINLESS STEEL	REFER TO SPEC	
EQP-13		GRAB BARS	BOBRICK	1 1/4" DIAMETER STAINLESS STEEL GRAB BARS WITH SNAP FLANGE B-5806	SATIN FINISH STAINLESS STEEL	REFER TO SPEC	
EQP-14		HAND DRYER	SLOAN	OPTIMA SENSOR-OPERATED DECK HAND DRYER PRODUCT NUMBER: EHD-410-CP-HEP119/120V	POLISHED CHROME	REFER TO SPEC	NCC TO ADVISE ON LOCATIONS.

DIVISION 11

EQUIPMENT

DIVISION 11 - RESIDENTIAL APPLIANCES

•**Product:** *Summit Appliance Single Door, Bottom Freezer Refrigerator or approved equal*

•**Alternative manufacturers:** *Frigidaire*

•**Product Requirements:**

- Product number: FFBF124SSLHD
- ENERGY STAR certified
- Overall dimensions: 72 ¾" H x 23 ½" W x 25 ¼" D
- Counter depth
- 11.7 cu.ft.
- No frost
- Stainless Steel finish

DIVISION 11 - RESIDENTIAL APPLIANCES

DIVISION 11 - EQUIPMENT - RESIDENTIAL APPLIANCES							
SPEC		MATERIAL TYPE	MANUFACTURER	COLLECTION/ SERIES	COLOR/FINISH	SIZE	COMMENTS
EQP-15		REFRIGERATOR	SUMMIT APPLIANCES	SUMMIT APPLIANCE SINGLE DOOR, BOTTOM FREEZER REFRIGERATOR PRODUCT NUMBER: FFBF124SSLHD	STAINLESS STEEL	72-3/4"H X 23-1/2"W X 25-1/4"D	

DIVISION 12

FURNISHINGS

DIVISION 12 - WINDOW TREATMENTS

- Product:** *Mecho Shade EcoVeil or approved equal*
- Alternative manufacturers:** *Lutron*

- Product Requirements:**

- Openness Factor: 5%
- NFPA 701-2004: pass
- GREENGUARD products recommended

- Product:** *Mecho Shade Acoustiveil or approved equal*

- Alternative manufacturers:** *Lutron*

- Product Requirements:**

- Openness Factor: 0-1%
- NRC Rating: 0.575
- NFPA 701-2004: pass
- GREENGUARD products recommended

- Product:** *Mecho Shade Equinox or approved equal*

- Alternative manufacturers:** *Lutron*

- Product Requirements:**

- Openness Factor: 0% Blackout
- NFPA 701-2004: pass
- GREENGUARD products recommended




DIVISION 12 - WINDOW TREATMENTS

Window Treatment Control Accessibility Guidance:

- First requirement for accessible controls depends on the degree to which window dressing are fixed or easily removable:
 - Fixed elements: require accessible controls. Roller shades, horizontal blinds, and vertical blinds are listed under this category.
- Second requirement for accessible controls depends on who is using the space:
 - Public space: requires accessibility features
 - Public space (exempt percentage): does not require accessibility features
 - Non-Public space: does not require accessibility features
 - Employee Common Area: requires accessibility features
 - Employee Work Area: does not require accessibility features (except if under ABA)
- Below is a list of space types and their requirements:
 - **Building Lobby:** Public space; requires accessibility features
 - **Office/Suite Lobby:** Public space; requires accessibility features
 - **Educational Classrooms and Laboratories:** Public space; requires accessibility features
 - The system must comply if students are permitted to operate fixed window treatments.
 - The system does not need to comply if employees are the only ones allowed to operate them.
 - **Private/Individual Employee Offices:** does not require accessibility features unless room is designated as accessible.
 - **Open Workplace:** does not require accessibility features but recommended to design them for future accessibility if needed.
 - **Staff-only Common Area/ Breakrooms:** Public space/employee common area; requires accessibility features
 - **Laboratory-Private/Individual:** does not require accessibility features unless room is designated as accessible.

*For additional information, refer to **Americans with Disabilities Act Accessibility Guidelines** and the applicable **local building code**.*

DIVISION 12 - WINDOW TREATMENTS

DIVISION 12 - FURNISHINGS - WINDOWS							
SPEC	IMAGE	MATERIAL TYPE	MANUFACTURER	SERIES/PATTERN	COLOR/FINISH	SIZE	COMMENTS
WS-1		ROLLER WINDOW SHADES	MECHOSHADE	ECOVEIL, BASKET WEAVE, #1350 SERIES	WHITE 1351		5% OPEN
WS-2		ROLLER WINDOW SHADES	MECHOSHADE	ACOUSTIVEIL DIMOUT, #0890 SERIES	WHITE 0891		0-1% OPEN
WS-3		ROLLER WINDOW SHADES	MECHOSHADE	EQUINOX BLACKOUT SHADECLOTH COLLECTION, #0100 SERIES	WHITE 0118		OPAQUE

DIVISION 12 – SOLID SURFACE COUNTERTOPS

•**Product:** *LX Hausys, Corian, Wilsonart, Hi Macs or approved equal*

•**Product Requirements:**

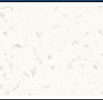


Product must meet or exceed minimum requirements for the following:

- ISO 19712-2 (Light resistance)
- ASTM G155 (Weatherability)
- NEMA LD 3-2005, Method 3.8 (Ball Impact Resistance)
- CSA B45.5-11/IAPMO Z124-2011 (Wear and Cleanability/Stain Resistance)
- ISO 19712-2 (Stain/Chemical Resistance Test; Resistance to cigarette burns; resistance to dry hear; resistance to wet hear; Hot/Cold cycle water-resistance test; load test)
- ISO 4586-2 (Dimensional stability; resistance to surface wear)
- ASTM G21 (Fungal Resistance)
- ASTM G22 (Bacterial Resistance)
- NEMA LD 3-2005 (Boiling Water Resistance/High Temperature Resistance)
- NFPA 101 Life Safety Code (ASTM E84, NFPA 225 & UL 723) (Flame Spread Index; Smoke Developed Index)

Environmental:

- Product should meet or exceed emission guidelines for volatile organic compounds (VOCs), and hazardous air pollutants (HAPs)
- GREENGUARD Certification strongly encouraged

DIVISION 12 - SOLID SURFACE COUNTERTOPS

DIVISION 12 - FURNISHINGS - SOLID SURFACE & QUARTZ COUNTERTOPS							
SPEC	IMAGE	MATERIAL TYPE	MANUFACTURER	SERIES/PATTERN	COLOR/FINISH	SIZE	COMMENTS
SS-1		SOLID SURFACE	LX HAUSYS	G160, CLASSIC COLLECTION	MOONDUST	NA	
SS-2		SOLID SURFACE	CORIAN	ANTARCTICA	ANTARCTICA	NA	PROVIDED AS AN ALTERNATE OPTION
SS-3		SOLID SURFACE	WILSONART	9196RS YUKON RIVERSTONE	YUKON RIVERSTONE	NA	ALTERNATE OPTION

DIVISION 12 - ENTRANCE FLOOR MATS


•**Product:** *Matter Surfaces Super Nop 52 Tile or approved equal*

•**Alternative manufacturers:** *Van Gelder, Interface*

•**Product Requirements:**

- Surface flammability CPSC FF 1, ASTM D2859: Passes
- Smoke Density, ASTM E662: Passes
- Static electrical propensity, ISO 6356: <2 kV
- Sound absorption, ISO 140-8; 29 dB
- Thermal Resistance, DIN 52612: 0.09 m² K/W
- Color Fastness (1= considerable change; 6= negligible or no change)
 - To light, ISO 105 B02: 6
 - To water, ISO 105 E01: 5
 - To rubbing, ISO 105 x 12: 4
- Green Label Plus Certified

DIVISION 12 - ENTRANCE FLOOR MATS

SPEC	IMAGE	MATERIAL TYPE	MANUFACTURER	SERIES/PATTERN	COLOR/FINISH	SIZE	COMMENTS
MAT-1		ENTRANCE MAT	MATTER SURFACES	SUPER/NOP 52	STERLING		

DIVISION 12 - CASEWORK

•**Product:** *Laboratory Casework*

•**Product Requirements:**

- NCC and Laboratory design specialists to advise on selections. Refer to list of manufacturers provided for reference and use:
 - ICI Scientific
 - MOTT Manufacturing
 - Kewaunee
 - Durcon - for working surfaces

DIVISION 22

PLUMBING

DIVISION 22 - PLUMBING

•**Product:** *TOTO Wall hung Lavatory or approved equal*

•**Product Requirements:**

- Meets and exceeds ASME A112.19.2/CSA B45.1
- Certifications: IAPMO (cUPC), State of Massachusetts, city of Los Angeles and others
- Meets ADA, TAS, ICC/ANSI A117.1 and CSA B651
- Code compliance: UPC, IPC, NSPC, NPC Canada and others

•**Product:** *TOTO Standard EcoPower Faucet or approved equal*

•**Product Requirements:**

- Operates below federally mandated consumption limit of 0.25gpc
- Complies to California Green Building Code, CALGreen of 0.20 gpc
- Meets or exceeds ASME A112.181M/CSA B125.1, and NSF372-2011
- Certifications: IAPMO(cUPC), State of Massachusetts, and others
- California Green Code and City of Los Angeles Water Efficiency Ordinance
- ADA Compliant
- Complies with federal and state statutes as low-lead (contains a weighted average of 0.25% lead or less)

•**Product:** *TOTO Integrated EcoPower Faucet or approved equal*

•**Product Requirements:**

- Operates below mandatory baseline, 0.20 gallon/cycle, of California Green Building Code, CAL Green
- Meets or exceeds ASME A112.181M/CSA B125.1, and ASSE 1070
- Certifications: IAPMO(cUPC), ASSE, State of Massachusetts, and others
- Code compliance: UPC, IPC, NSPC, NPC Canada and others
- California Green Code and City of Los Angeles Water Efficiency Ordinance
- ADA Compliant
- Complies with federal and state statutes as low-lead (contains a weighted average of 0.25% lead or less)

•**Product:** *TOTO Wall Mounted Flushometer Toilet or approved equal*

•**Product Requirements:**

- Meets and exceeds ASME A112.19.2/CSA B45.1
- Certifications: IAPMO(cUPC), ASSE, State of Massachusetts, and others
- Code compliance: UPC, IPC, NSPC, NPC Canada and others
- ADA Compliant

•**Product:** *TOTO High Efficiency Urinal or approved equal*

•**Product Requirements:**

- Meets and exceeds ASME A112.19.2/CSA B45.1
- Certifications: IAPMO(cUPC), City of Los Angeles, State of Massachusetts
- Code compliance: UPC, IPC, NSPC, NPC Canada and others
- Legislative Compliance: California AB715, CALGreen Title 24, California Energy Commission standards
- ADA Compliant

DIVISION 22 - PLUMBING

•**Product:** *ELKAY EXH20 Bottle Filling Station & Versatile Bi-Level ADA Cooler or approved equal*

•**Product Requirements:**

- ADA and ICC A117.1
- Meets or exceeds ASME A112.19.3/CSA B45.5
- GreenSpec Listed
- Buy American Act
- CAN/CSA C22.2 No.120
- NSF/ANSI 42, 53, 61, & 371 (lead free)
- UL 399
- 5 year warranty on the refrigeration system of the unit

•**Product:** *ELKAY Lustertone Classic Stainless Steel Single Bowl Undermount Sink or approved equal*

•**Product Requirements:**









- Model number: *ELUH281610*
- Installation Type: Undermount
- Material: 304 Stainless Steel
- Finish: Lustrous Satin
- Product Compliance: ASME A112.19.3/CSA B45.4

•**Product:** *KRAUS OLETTO Pull-down Kitchen Faucet and Water Filter Faucet Combo or approved equal*

•**Product Requirements:**

- Model Number: KPF-2620-FF-100SFS
- Material & Finish: Spot Free all-Brite Stainless Steel
- Product Certification Kitchen Faucet:
 - cUPC (ASME A112.18.1/CSA B125.1)
 - NSF/ANSI Standard 61 and 372 certified by IAPMO
 - AB1953, MASS, CEC, DOE
- Product Certification Water Filtration Faucet:
 - cUPC (ASME A112.18.1/CSA B125.1)
 - NSF/ANSI Standard 61 and 372 certified by IAPMO
 - CAL GREEN, CEC, DOE, ADA

DIVISION 22 - PLUMBING

DIVISION 22 - PLUMBING							
SPEC	IMAGE	MATERIAL TYPE	MANUFACTURER	SERIES/PATTERN	COLOR/FINISH	SIZE	COMMENTS
PLB-1		SINK	TOTO	LT307A/ COMMERCIAL WALL-HUNG LAVATORY	STANDARD #01 COTTON	20 7/8" X 18"	PROVIDE LT307 - LAVATORY ONLY WITH SINGLE HOLE FOR STUDENT RESTROOMS PROVIDE LT307A#01: LAVATORY ONLY WITH SINGLE HOLE AND LEFT SIDE SOAP HOLE FOR FACULTY/STAFF RESTROOMS
PLB-2		FAUCET	TOTO	STANDARD ECOPOWER FAUCET - TEL10S-D10ET	POLISHED CRHOME		
PLB-3		FAUCET	TOTO	INTEGRATED ECOPOWER FAUCET - TEL5U5R	POLISHED CRHOME		
PLB-4		TOILET	TOTO	WALL MOUNTED FLUSHOMETER TOILET WITH 1-1/2" TOP SPUD INLET, LESS SEAT CT708E	#01 COTTON		PROVIDE ECO POWER HIGH - EFFICIENCY TOILET FLUSH VALVE, 1.28GPF - TEL1LA32#CP PROVIDE COMMERCIAL TOILET SEAT - SC534
PLB-5		URINAL	TOTO	0.125 GPF HIGH - EFFICIENCY WASHOUT URINAL WITH 3/4" TOP SPUD INLET AND CeFIONtect UT105UG	#01 COTTON		PROVIDE ECO POWERULTRA HIGH - EFFICIENCY URINAL FLUSH VALVE 0.125 GPF - TEL1UA#CP
PLB-6		WATER FOUNTAIN	ELKAY	ELKAY EXH20 BOTTLE FILLING STATION & VERSATILE BI-LEVEL ADA COOLER MODEL LZSTLGBWSLK	LIGHT GRAY	36-3/4" X 19" X 39-1/16"	
PLB-7		KITCHEN SINK	ELKAY	ELKAY ELLH281610 LUSTERTONE CLASSIC STAINLESS STEEL SINGLE BOWL UNDERMOUNT SINK	STAINLESS STEEL	30-1/2" X 18-1/2" X 10"	
PLB-8		KITCHEN FAUCET & WATER FILTER FAUCET COMBO	KRAUS OLETTO	PULL-DOWN KITCHEN FAUCET AND WATER FILTER FAUCET COMBO MODEL #: KPF-2620-FF-100SFS	STAINLESS STEEL		

BEST PRACTICES FOR BETTER ACOUSTICS IN LEARNING ENVIRONMENTS

To create the best acoustic environment possible for learning, the design and construction of classrooms should be guided by the ANSI S12.60-2002, "Acoustical Performance Criteria, Design Requirements, and Guidelines for Schools" standard. The standard, states that the limit for the one-hour average of background noise level is 35 dB A-weighted. This requires control of background noises caused by HVAC and building systems, computers, projectors, corridor noise, outdoor noise as well as noise from adjacent classrooms.

Reverberation time is also important to be considered. This one is measured as RT60, or the time it takes a sound to degrade by 60 dB. In the case of a classroom, reflective surfaces like whiteboards or hard flooring surfaces, can amplify echoes.

When designing a classroom, it is important to consider creating an appropriate balance. This can be translated to: 1. the use of carpeting in lieu of a hard surface floor; 2. utilizing sound absorbing ceiling panels or acoustical spray; 3. applying other wall surface materials that absorb the sound, such as acoustical wall panels or wallcoverings; or 4. a mix of these solutions depending on the required levels of acoustics for the room and need.

Below is a summary of the recommended limits found in the standards.

TABLE SUMMARY OF ANSI S12.60-2002, ACOUSTICAL PERFORMANCE CRITERIA			
UPPER LIMIT			
CLASSROOM SIZE	< 10,000 FT ³	BETWEEN 10,000 FT ³ AND 20,000 FT ³	>20,000 FT ³
REVERBERATION TIME (RT60)	0.6 S	0.7 S	NO LIMIT GIVEN
BACKGROUND NOISE LEVELS	35 dBA	35 dBA	40 dBA

EXTERIOR DESIGN GUIDELINES

TABLE OF CONTENTS

SPACE TYPOLOGIES / EXTERIOR FINISHES

VEHICULAR STREETS

PEDESTRIAN WALKWAYS

PLAZAS

PLANTING

- LAWNS
- MEADOW
- RAINGARDEN

BUILDING ENTRANCES

PARKING LOTS

TABLE OF CONTENTS

EXTERIOR MATERIALS SPECIFICATIONS

DIVISION 26 - ELECTRICAL

- EXTERIOR LIGHTING (26 56 00)
 - LIGHTING BOLLARDS
 - LIGHTING SECURITY FEATURES
- PARKING LIGHTING (26 56 16)
- ROADWAY LIGHTING (26 56 19)
- AREA LIGHTING (26 56 23)
- LANDSCAPE LIGHTING (26 56 26)
- SITE LIGHTING (26 56 29)
- WALKWAY LIGHTING (26 56 33)

DIVISION 32 - EXTERIOR IMPROVEMENTS

PAVING

- POROUS UNIT PAVING (32 14 43) / (32 12 43)
 - REINFORCED LAWN
 - POROUS ASPHALT
 - POROUS PRE-CAST CONCRETE UNIT PAVERS (32 14 13.19)
- TACTILE WARNING SURFACING (32 17 26)
- PAVEMENT MARKINGS (32 17 23)
- CURBS AND GUTTERS (32 16 13)

SITE FURNISHING (32 33 00)

- BENCHES
- TABLES WITH SEATING
- LITTER AND RECYCLES RECEPTACLES
- MANUFACTURED METAL BOLLARDS (32 39 13)
- BICYCLE RACKS (32 33 00)
- TREE GRATES (32 94 43)
- GUARDRAILS / HANDRAILS

PLANTING (32 90 00)

- TREES
- SHRUBS
- GROUND COVER

SPATIAL TYPOLOGIES

EXTERIOR FINISHES

VEHICULAR STREETS

VEHICULAR STREETS

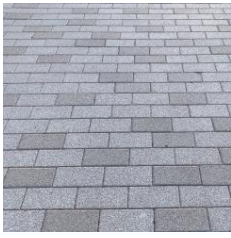
OVERVIEW:

Vehicular Streets: Includes all vehicular (cars / buses / bikes) roadways and streets.

PAVING:



PVMT-1: Porous Asphalt



PVMT-2: Porous Pre-cast Concrete Unit Hydropaver - Grey



PVMT-4: Porous Pre-cast Concrete Unit Hydropaver - Red



PVMT-5: Detectable Warning



PVMT-6: Curb



PVMT-7: Markings

LIGHTING:



LT-V-1: Lithonia D Series



LT-V-2: Philips Hadco Ledgine

VEHICULAR STREETS

OVERVIEW:

Vehicular Streets (cont.): NCC to maximize opportunities to implement Hempstead Plains mix in Vehicular abutting landscape areas. Refer to PG109 for Plant Palette (GC-11 to GC-21).

PLANTING:



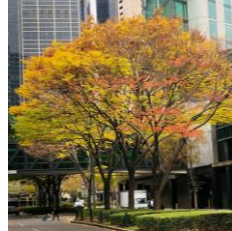
TR-1: *Platanus X acerifolia*



TR-2: *Ginkgo biloba fastegiata*



TR-3: *Carpinus betulus frans fontaine*



TR-4: *Zelkova serrata*



TR-5: *Tilia cordata*



TR-6: *Quercus Sp.*



SH-1: *Yucca filamentosa*



SH-2: *Rhus aromatica*



GC-1: *Carex pensylvanica*



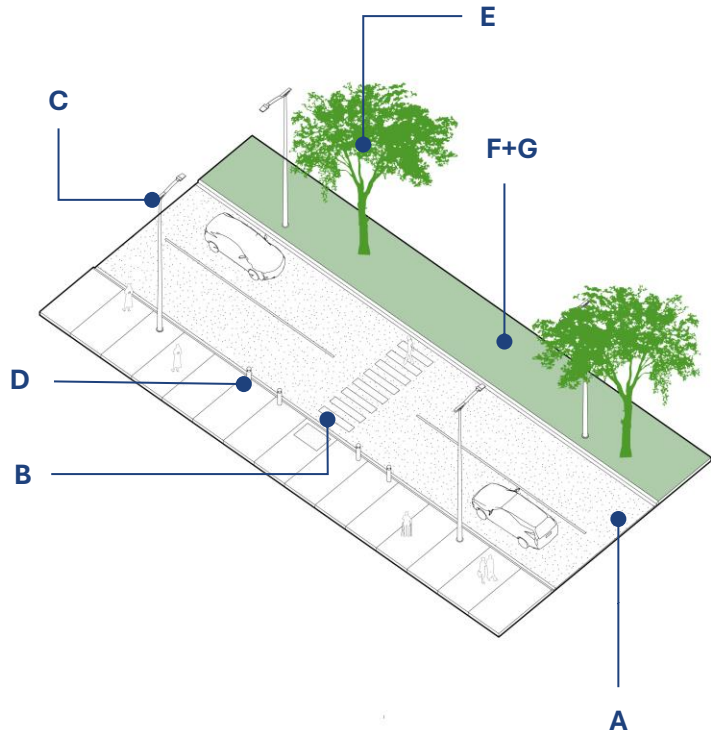
GC-2: *Juniperus horizontalis 'Blue Chip'*

VEHICULAR STREETS

MATERIAL TAGGED VIEWS

INTERIOR FINISHES

- A. Paving:
 - PVMT-1***
 - PVMT-2**
 - PVMT-4**
 - PVMT-5**
 - PVMT-6**
- B. Marking:
 - PVMT-7**
- C. Lighting:
 - LT-V-1**
 - LT-V-2**
- D. Furnishing:
 - FURN-4**
- E. Planting (Trees): ***
 - TR-1 to TR-6**
- F. Planting (Shrubs):
 - SH-1**
 - SH-2**
- G. Planting (Groundcover): ****
 - GC-1**
 - GC-2**



* Prioritize transition from traditional asphalt to porous asphalt on vehicular streets per hydrology analysis conducted by Landscape Architect team.

** Prioritize transition from regular pavers with porous joints to hydroPAVERS on sidewalks.

*** Trees to be limbed up to at least 12' to provide unobstructed vertical clearance above the road.

**** NCC to maximize opportunities to implement Hempstead Plains mix in Vehicular abutting landscape areas. Refer to PG109 for Plant Palette (GC-4 to GC-XX).

NOTES

1. REFER TO MATERIAL SPECIFICATIONS AT THE BEGINNING OF THE GUIDELINES FOR PRODUCT INFORMATION.
2. THE DESIGNER SHOULD USE THIS GUIDE FOR SPECIFYING THE EXTERIOR FINISHES AND PLANTING SPECIES ON NCC CAMPUS SITE PROJECTS.
3. THE INFORMATION DOES NOT RELIEVE THE DESIGNER OF SPECIFYING MATERIALS THAT ARE APPROPRIATE AND CODE COMPLAINT FOR SPECIFIC SPACES.
4. THE DESIGNER SHOULD INCORPORATE STRUCTURAL SOIL TO ENSURE LONG-TERM RESILIENCE AND SUPPORT HEALTHY TREE GROWTH.

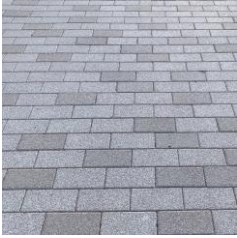
PEDESTRIAN WALKWAYS

PEDESTRIAN WALKWAYS

OVERVIEW:

Pedestrian Walkways: Includes pedestrian and bike paths, connecting between buildings, parking lots, and open spaces including plazas.

PAVING:



PVMT-2: Porous
Pre-cast Concrete Unit
Hydropaver - Grey



PVMT-3: Hanover
Permeable - Grey



PVMT-5: Detectable
Warning

FURNISHING:



FURN-2: Midtown
Bench



FURN-3: Midtown Dual
Litter Receptacle

LIGHTING:



LT-P-1: Philips Hadco
New London



LT-P-2: Lithonia
MR1 Led

**Utilized in Historic
Campus Areas only*

PEDESTRIAN WALKWAYS

OVERVIEW:

Pedestrian Walkways (cont.): NCC to maximize opportunities to implement *Hempstead Plains mix at pedestrian abutting landscape areas. Refer to PG109 for Plant Palette (GC-11 to GC-21).

PLANTING:



TR-4: Zelkova serrata



TR-10: Acer rubrum



TR-11: Juniperus virginiana



TR-12: Amelanchier canadensis



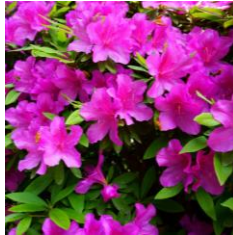
TR-13: Cercis canadensis



SH-2: Rhus aromatica



SH-3: Clethra alnifolia



SH-4: Rhododendron indica formosa



SH-5: Hamamelis virginiana



GC-1: Carex pensylvanica



GC-2: Juniperus horizontalis 'Blue Chip'



GC-4: Panicum virgatum shenandoah



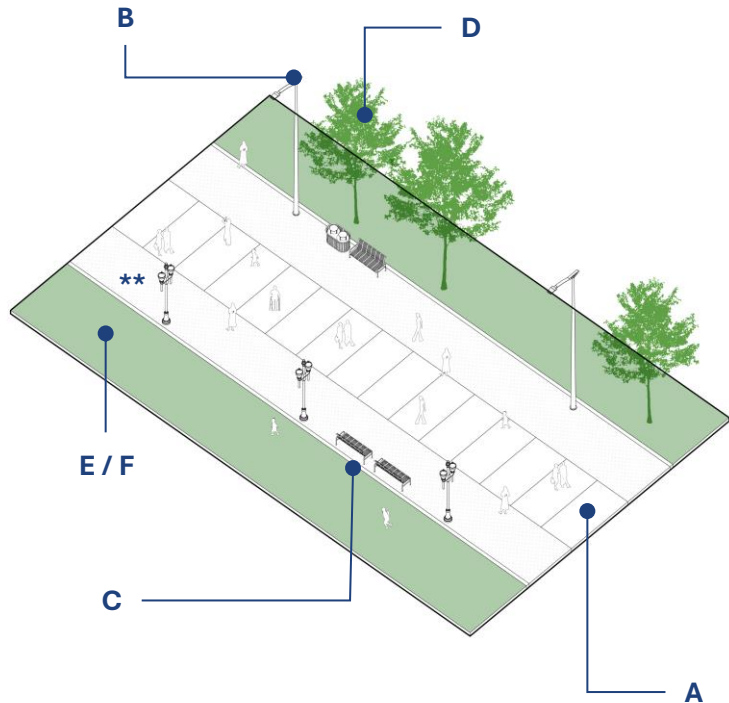
*GC-19: Sorghastrum nutans

PEDESTRIAN WALKWAYS - PATHS

MATERIAL TAGGED VIEWS

INTERIOR FINISHES

- A. Paving:*
 - PVMT-2**
 - PVMT-3**
 - PVMT-5**
- B. Lighting:
 - LT-P-1 ****
 - LT-P-2**
- C. Furnishing:
 - FURN-2**
 - FURN-3**
- D. Planting (Trees):***
 - TR-4**
 - TR-10 to TR-13**
- E. Planting (Shrubs):
 - SH-2 to SH-5**
- F. Planting (Groundcover):
 - GC-1**
 - GC-2**
 - GC-4**
 - GC-19**



* Designers to evaluate width of flanking paving bands in proportion to overall walkway.

** LT-P-1 to be utilized in Historic Campus only.

*** Landscape architects to ensure no taproots along paths as to not compromise paving longevity.

NOTES

1. REFER TO MATERIAL SPECIFICATIONS AT THE BEGINNING OF THE GUIDELINES FOR PRODUCT INFORMATION.
2. THE DESIGNER SHOULD USE THIS GUIDE FOR SPECIFYING THE EXTERIOR FINISHES AND PLANTING SPECIES ON NCC CAMPUS SITE PROJECTS.
3. THE INFORMATION DOES NOT RELIEVE THE DESIGNER OF SPECIFYING MATERIALS THAT ARE APPROPRIATE AND CODE COMPLAINT FOR SPECIFIC SPACES.
4. THE DESIGNER SHOULD INCORPORATE STRUCTURAL SOIL TO ENSURE LONG-TERM RESILIENCE AND SUPPORT HEALTHY TREE GROWTH.

PLAZAS

PLAZAS

OVERVIEW:

Plazas: Includes public gathering spaces.

PAVING:



PVMT-4: Porous Pre-cast Concrete Unit Hydropaver - Red

LIGHTING:



LT-P-1: Philips Hadco New London
**Utilized in Historic Campus Areas only*



LT-P-3: Forms + Surfaces Helio Bollard



LT-P-5: OCL Neo Outdoor Pendant

FURNISHING:



FURN-1: Easton Table Set



FURN-2: Midtown Bench



FURN-3: Midtown Dual Litter Receptacle



FURN-5: Dero Swerve Bikerack



FURN-6: UA Jamison Tree Grate

PLANTING (GROUND COVER):



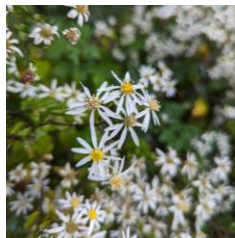
GC-1: Carex pensylvanica



GC-2: Juniperus horizontalis



GC-5: Eragrostis spectabilis



GC-6: Eurybia divaricata



GC-7: Pteridium aquilinum



GC-8: Polystichum acrostichoides



GC-9: Gaultheria procumbens



GC-10: Polygonatum biflorum

PLAZAS

OVERVIEW:

Plazas (cont.): Includes public gathering spaces.

PLANTING (TREES & SHRUBS):



TR-12: *Amelanchier canadensis*



TR-14: *Amelanchier laevis*



TR-15: *Magnolia grandiflora*



TR-16: *Magnolia virginiana*



TR-17: *Prunus serrulata*



TR-18: *Syringa reticulata*



TR-19: *Cornus mas*



TR-20: *Pinus strobus*



TR-21: *Pinus rigida*



SH-5: *Hamamelis virginiana*



SH-6: *Ilex verticillata*



SH-7: *Vaccinium angustifolium*



SH-8: *Vaccinium corymbosum*

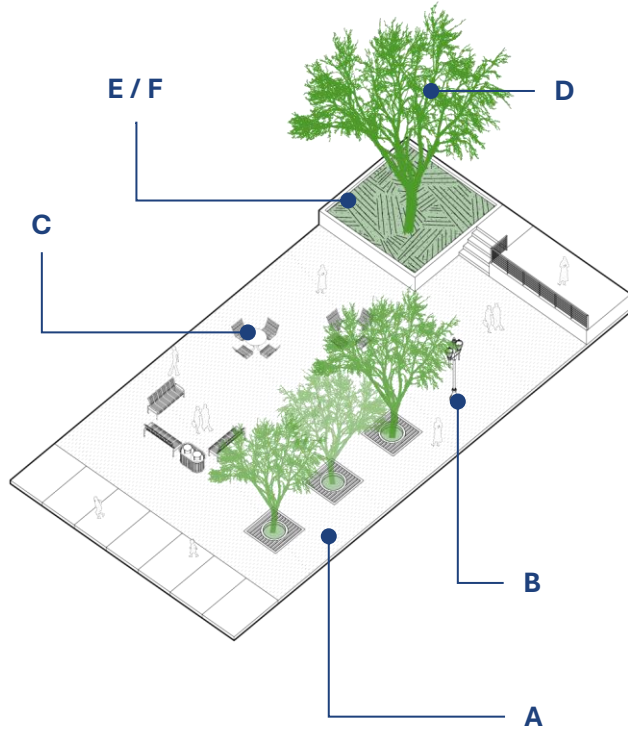


SH-9: *Cornus cericea*

MATERIAL TAGGED VIEWS

INTERIOR FINISHES

- A. Paving:
 - PVMT-3**
 - PVMT-4**
- B. Lighting: ***
 - LT-P-1**
 - LT-P-3**
 - LT-P-5**
- C. Furnishing:
 - FURN-1**
 - FURN-2**
 - FURN-3**
 - FURN-5**
 - FURN-6 ****
 - FURN-7**
 - SEC-1**
- D. Planting (Trees): *
 - TR-12**
 - TR-14 to TR-21**
- E. Planting (Shrubs):
 - SH-5 to SH-9**
- F. Planting (Groundcover):
 - GC-1**
 - GC-2**
 - GC-5 to GC-10**



* Introduce shaded areas throughout paved plazas with shade structures or trees to extend year-round usage.

** NCC to consider introducing tree grates at paved plazas.

*** NCC to consider future implementation of in-ground solar light pavers that are ADA compliant to laterally illuminate plazas.

NOTES

1. REFER TO MATERIAL SPECIFICATIONS AT THE BEGINNING OF THE GUIDELINES FOR PRODUCT INFORMATION.
2. THE DESIGNER SHOULD USE THIS GUIDE FOR SPECIFYING THE EXTERIOR FINISHES AND PLANTING SPECIES ON NCC CAMPUS SITE PROJECTS.
3. THE INFORMATION DOES NOT RELIEVE THE DESIGNER OF SPECIFYING MATERIALS THAT ARE APPROPRIATE AND CODE COMPLIANT FOR SPECIFIC SPACES.

PLANTING

PLANTING

OVERVIEW:

Planting: Includes various campus landscapes such as lawns, meadows, and raingardens.

PAVING :



PVMT-8: Grasspave

PLANTING (TREES & SHRUBS):



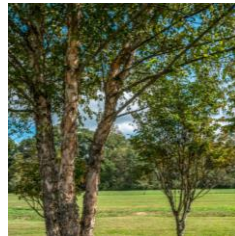
TR-10: Amelanchier laevis



TR-22: Nyssa silvatica



TR-23: Taxodium distichum



TR-24: Betula nigra NBMFT



TR-25: Quercus bicolor



SH-2: Rhus aromatica



SH-3: Clethra alnifolia

PLANTING (GROUND COVER):



GC-3: Trifolium repens



GC-4 : Panicum virgatum Shenandoah

PLANTING

OVERVIEW:

Planting (cont.): Includes various campus landscapes such as lawns, meadows, and raingardens.
Note: (*) These species are within the Hempstead Plains palette.

PLANTING (GROUND COVER):



*GC-11: *Andropogon gerardii*



*GC-12: *Asclepias syriaca*



*GC-13: *Asclepias tuberosa*



*GC-14: *Baptisia australis*



*GC-15: *Baptisia tinctoria*



*GC-16: *Eupatorium hyssopifolium*



*GC-17: *Schizachyrium scoparium*



*GC-18: *Solidago juncea*



*GC-19: *Sorghastrum nutans*



*GC-20: *Trident flava*



*GC-21: *Viola pedata*



GC-22: *Panicum virgatum* 'Heavy Metal'



GC-23: *Amsonia illustris*



GC-24: *Amsonia tabernaemontana*



GC-25: *Aster cordifolius*



GC-26: *Eupatorium purpureum*



GC-27: *Iris versicolor*



GC-28: *Solidago speciosa*



GC-29: *Coreopsis lanceolata*



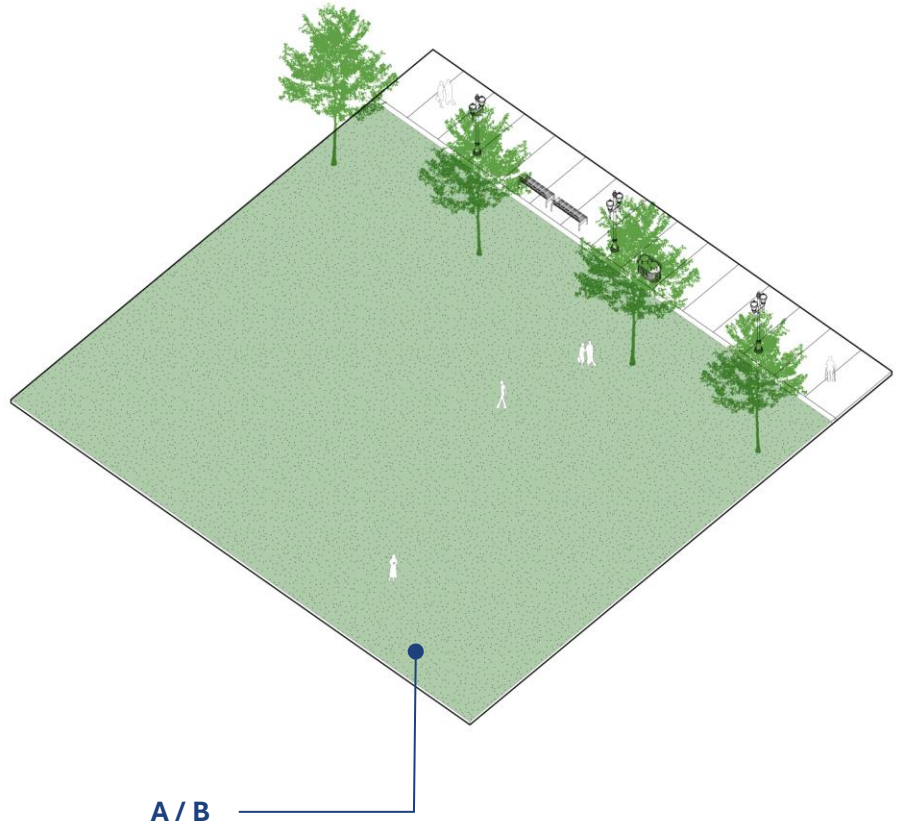
GC-30: *Coreopsis palustris* 'summer sunshine'

PLANTING - LAWNS

MATERIAL TAGGED VIEWS

INTERIOR FINISHES

- A. Paving:
PVMT-8
- B. Planting (Groundcover):*
GC-3



* NCC to coordinate irrigation and mowing with landscape maintenance teams.

NOTES

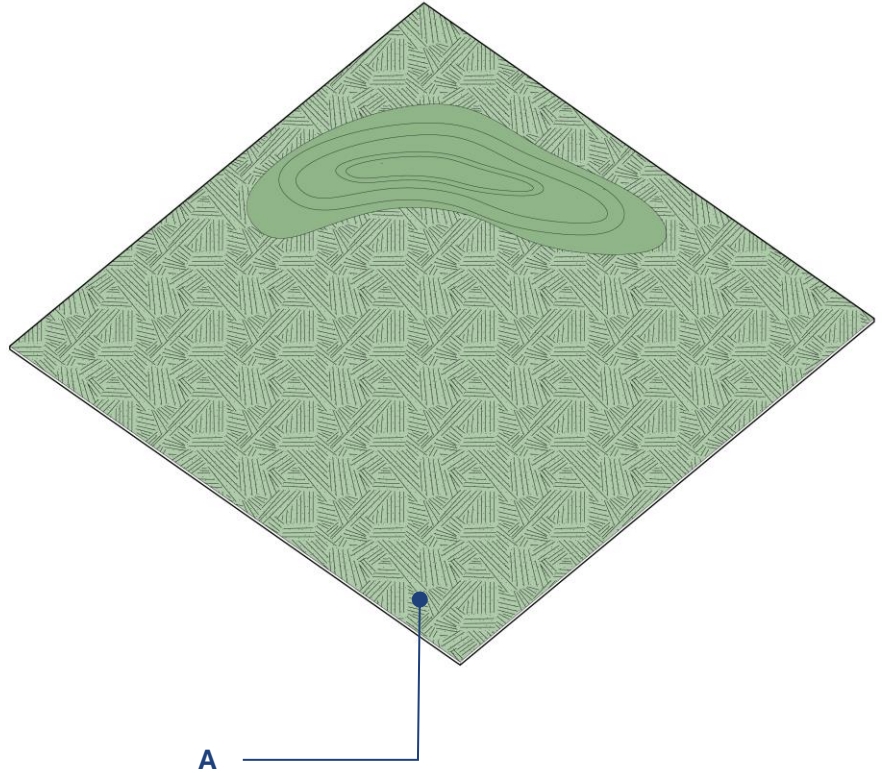
1. REFER TO MATERIAL SPECIFICATIONS AT THE BEGINNING OF THE GUIDELINES FOR PRODUCT INFORMATION.
2. THE DESIGNER SHOULD USE THIS GUIDE FOR SPECIFYING THE EXTERIOR FINISHES AND PLANTING SPECIES ON NCC CAMPUS SITE PROJECTS.
3. THE INFORMATION DOES NOT RELIEVE THE DESIGNER OF SPECIFYING MATERIALS THAT ARE APPROPRIATE AND CODE COMPLAINT FOR SPECIFIC SPACES.

PLANTING - MEADOWS

MATERIAL TAGGED VIEWS

INTERIOR FINISHES

- A. Planting (Groundcover):
GC-4
GC-11 to GC-21



* Meadow plant palette is inspired by the campus presence of the Hempstead Plains Grassland; a globally critically imperiled ecosystem due to its high risk of extinction because of its extreme rarity.

** NCC should explore opportunities to expand this habitat in lieu of traditional lawns, consequently minimizing lawn maintenance costs.

*** NCC to consider an integrated networked green infrastructure (NGI) approach through meadow corridors that leverage Long Island's history and use that to empower future stormwater management.

NOTES

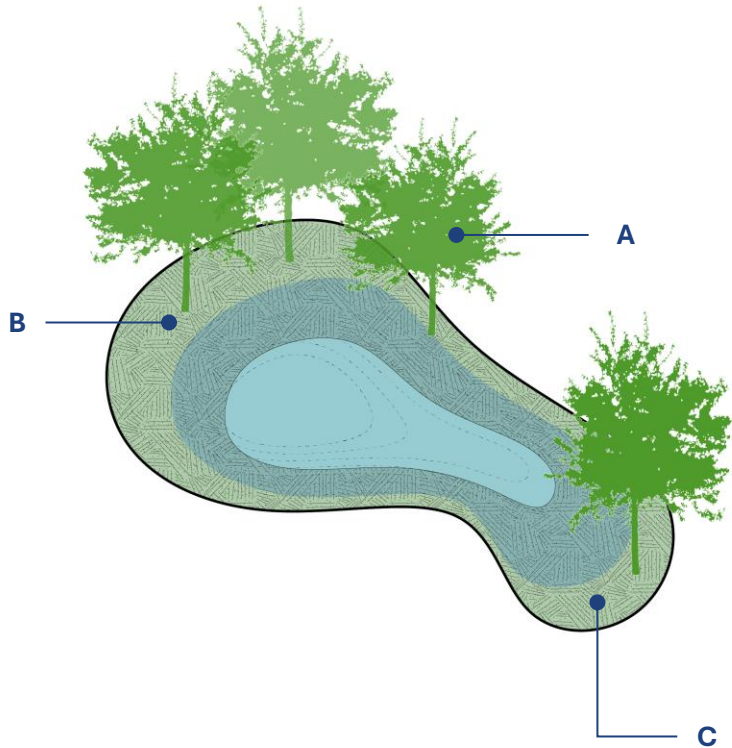
1. REFER TO MATERIAL SPECIFICATIONS AT THE BEGINNING OF THE GUIDELINES FOR PRODUCT INFORMATION.
2. THE DESIGNER SHOULD USE THIS GUIDE FOR SPECIFYING THE EXTERIOR FINISHES AND PLANTING SPECIES ON NCC CAMPUS SITE PROJECTS.
3. THE INFORMATION DOES NOT RELIEVE THE DESIGNER OF SPECIFYING MATERIALS THAT ARE APPROPRIATE AND CODE COMPLAINT FOR SPECIFIC SPACES.

PLANTING - RAINGARDENS

MATERIAL TAGGED VIEWS

INTERIOR FINISHES

- A. Planting (Trees):
TR-10
TR-22 to TR-25
- B. Planting (Shrubs):
SH-2
SH-3
- C. Planting (Groundcover):
GC-22 to GC-30



* NCC to explore opportunities to integrate rain garden near building courtyards, parking lots, and low points according to hydrology and topography analysis.

NOTES

1. REFER TO MATERIAL SPECIFICATIONS AT THE BEGINNING OF THE GUIDELINES FOR PRODUCT INFORMATION.
2. THE DESIGNER SHOULD USE THIS GUIDE FOR SPECIFYING THE EXTERIOR FINISHES AND PLANTING SPECIES ON NCC CAMPUS SITE PROJECTS.
3. THE INFORMATION DOES NOT RELIEVE THE DESIGNER OF SPECIFYING MATERIALS THAT ARE APPROPRIATE AND CODE COMPLAINT FOR SPECIFIC SPACES.

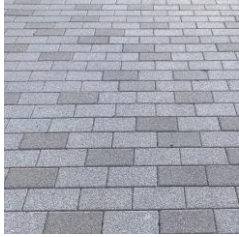
BUILDING ENTRANCES

BUILDING ENTRANCES

OVERVIEW:

Building Entrances: Includes planting, furnishing, stairs and ramps at building entrances.

PAVING:



PVMT-2: Porous
Pre-cast Concrete Unit
Hydropaver - Grey

LIGHTING:



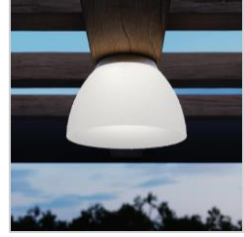
LT-P-1: Philips Hadco
New London



LT-P-2: Lithonia
MR1 Led



LT-P-4: Lithonia D
Series Led Floodlight



LT-P-5: OCL Neo
Outdoor Pendant

FURNISHING:



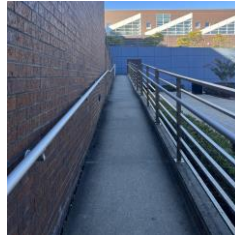
FURN2: Midtown
Bench



FURN3: Midtown Dual
Litter Receptacle



FURN5: Dero
Swerve Bikerack



FURN-7:
Guard/Handrail



SEC1: Talkaphone



SEC-2: Wall Mount
Talkaphone

BUILDING ENTRANCES

OVERVIEW:

Building Entrances (cont.): Includes planting, furnishing, stairs and ramps at building entrances.
Note: (*) These species are within the Hempstead Plains palette.

PLANTING:



TR-6: Quercus



TR-9: Quercus velutina



TR-12: Amelanchier canadensis



TR-18: Syringa reticulata



SH-2: Clethra alnifolia



SH-3: Rhus aromatica



SH-9: Hamamelis virginiana



GC-1: Carex pensylvanica



GC-4 : Panicum virgatum 'shenandoah'



GC-6: Eurybia divaricata



GC-7: Pteridium aquilinum



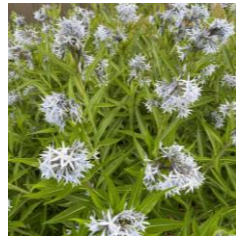
GC-8: Polystichum acrostichoides



GC-10: Polygonatum biflorum



*GC-16: Eupatorium hyssopifolium



GC-23: Amsonia illustris



GC-24: Amsonia tabernaemontana

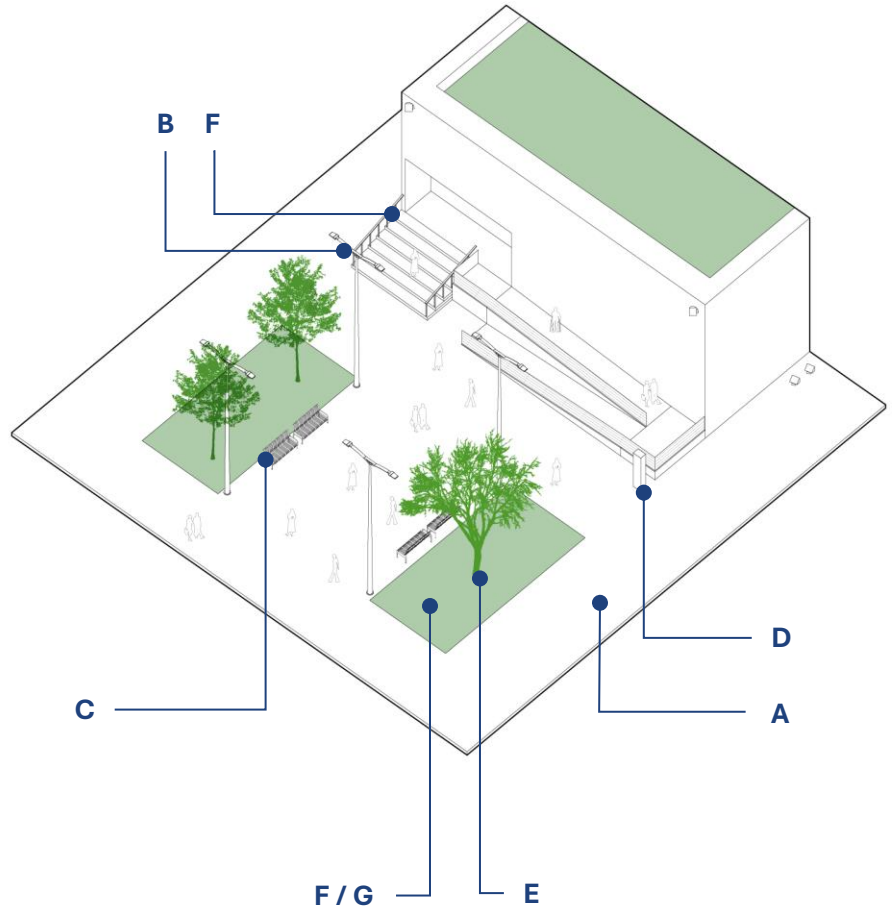


GC-31: Sedum

MATERIAL TAGGED VIEWS

INTERIOR FINISHES

- A. Paving: **PVMT-2**
- B. Lighting:
 - LT-P-1 & LT-P-2**
 - LT-P-4 & LT-P 5**
- C. Furnishing:
 - FURN-2**
 - FURN-3**
 - FURN-5**
 - FURN-7**
- D. Furnishing: **SEC-1 & SEC-2**
- E. Planting (Trees):
 - TR-6**
 - TR-9**
 - TR-12**
 - TR-18**
- F. Planting (Shrubs):
 - SH-2 & SH-3**
 - SH-9**
- G. Planting (Groundcover):
 - GC-1**
 - GC-4**
 - GC-6 to GC-8**
 - GC-10**
 - GC-16**
 - GC-23 & GC-24**
 - GC-31***



* Where flat roof structure permits, implement Intensive Green Roof designs with contextual perennial mixes. Utilize pre-grown sedum trays for extensive green roofs.

** Landscape team to avoid introducing pollinator species at building entrances.

*** NCC to explore opportunities to integrate and/or expand rooftop solar for electrical power generation. This is preferred on inaccessible roofs.

NOTES

1. REFER TO MATERIAL SPECIFICATIONS AT THE BEGINNING OF THE GUIDELINES FOR PRODUCT INFORMATION.
2. THE DESIGNER SHOULD USE THIS GUIDE FOR SPECIFYING THE EXTERIOR FINISHES AND PLANTING SPECIES ON NCC CAMPUS SITE PROJECTS.
3. THE INFORMATION DOES NOT RELIEVE THE DESIGNER OF SPECIFYING MATERIALS THAT ARE APPROPRIATE AND CODE COMPLAINT FOR SPECIFIC SPACES.

PARKING LOTS

PARKING LOTS

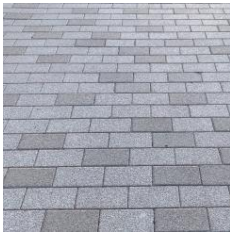
OVERVIEW:

Parking Lots: Includes student and faculty lots.

PAVING:



PVMT-1: Porous Asphalt



PVMT-2: Porous Pre-cast Concrete Unit Hydropaver - Grey



PVMT-5: Detectable Warning



PVMT-6: Curb



PVMT-7: Markings

LIGHTING:



LT-V-1: Lithonia D Series

FURNISHING:



FURN-3: Midtown Dual Litter Receptacle



FURN-4: dumor steel bollard

PARKING LOTS

OVERVIEW:

Parking Lots (cont.): Includes student and faculty lots.

Note: (*) These species are within the Hempstead Plains palette.

PLANTING:



TR-2: *Ginkgo biloba fastigiata*



TR-3: *Carnipus betulus 'frans fontaine'*



TR-5: *Tilia cordata*



TR-6: *Quercus*



TR-14: *Nyssa sylvatica*



TR-15: *Taxodium distichum*



TR-16: *Betula Nigra BNMTF*



TR-17: *Quercus bicolor*



SH-1: *Yucca filamentosa*



SH-2: *Rhus aromatica*



GC-1: *Carex pensylvanica*



GC-2: *Juniperus horizontalis*



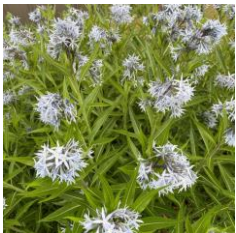
GC-4 : *Panicum virgatum 'shenandoah'*



*GC-13: *Asclepias tuberosa*



*GC-16: *Eupatorium hyssopifolium*



GC-23: *Amsonia illustris*



GC-24: *Amsonia tabernaemontana*



GC-25: *Aster cordifolius*



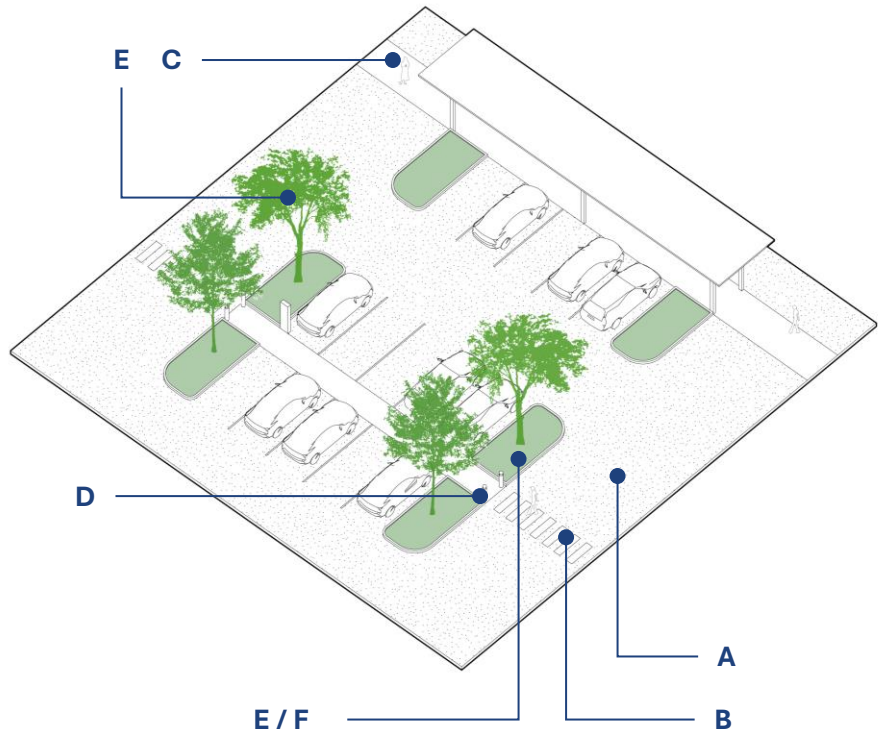
GC-27: *Iris versicolor*

PARKING LOTS

MATERIAL TAGGED VIEWS

INTERIOR FINISHES

- A. Paving: *
 - PVMT-1**
 - PVMT-2**
 - PVMT-5**
 - PVMT-6**
- B. Markings: **PVMT-7**
- C. Lighting: **LT-V-1 & LT-V-3**
- D. Furnishing: **FURN-3 & FURN-4**
- E. Furnishing: **SEC-1 & SEC-2**
- F. Planting (Trees):
 - TR-2**
 - TR-3**
 - TR-5**
 - TR-6**
 - TR-14 to TR-17**
- G. Planting (Shrubs): **
 - SH-1 & SH-2**
- H. Planting (Groundcover):
 - GC-1**
 - GC-2**
 - GC-4**
 - GC-14**
 - GC-16**
 - GC-19 to GC-21**
 - GC-23**



* Introduce pedestrian walkways at areas that streamline circulation to campus buildings.

** Introduce shrubs into the landscape mix with a maximum height 3' for driver and pedestrian visibility.

*** Recommendation to implement planting bays at every 6th parking spaces.

**** NCC to consider opportunities to implement Solar Canopies to maximize landscape performance. Coordinate height with Local Fire Access Code and Requirements and additionally consider snow removal requirements.

**** NCC to consider introducing EV charging stations in all parking lots, with the aim of at least 5% to meet LEED standards.

NOTES

1. REFER TO MATERIAL SPECIFICATIONS AT THE BEGINNING OF THE GUIDELINES FOR PRODUCT INFORMATION.
2. THE DESIGNER SHOULD USE THIS GUIDE FOR SPECIFYING THE EXTERIOR FINISHES AND PLANTING SPECIES ON NCC CAMPUS SITE PROJECTS.
3. THE INFORMATION DOES NOT RELIEVE THE DESIGNER OF SPECIFYING MATERIALS THAT ARE APPROPRIATE AND CODE COMPLAINT FOR SPECIFIC SPACES.

EXTERIOR MATERIALS

EXTERIOR LEGEND / SPECIFICATIONS

DIVISION 26

ELECTRICAL

DIVISION 26 - ELECTRICAL

OVERVIEW

•**Product:** *Acuity Brands Lithonia D-Series LED Area Luminaires or approved equal*

•**Product Features:**

- Single-piece die-cast aluminum housing with integral heat sink fins to optimize thermal management. LED driver mounted in direct contact with the casting.
- Exterior parts protected by a zinc-infused thermoset powder coat finish to provide resistance to corrosion and weathering.
- Light standard is 4000 K, but also available in 3000K or 5000K
- LEED and Green Globes criteria for eliminating wasteful uplight

•**Product:** *Philips Hadco LEDgine LED Teardrop Pendant or approved equal*

•**Product Features:**

- Housing in low copper die-cast aluminum
- Heat sink made of cast aluminum (passive cooling device)
- Finishes available as polyester powder coat paint
- ASTM D523 standard for luster retention
- ASTM D2244 standard for discoloration resistant finish
- ASTM D2247 standard for humidity proof
- Thermal testing in accordance with UL1598 and UL8750
- ISO 9001 2008 and ISO 14001 2004 quality control
- 5 Year extended warranty

•**Product:** *Philips Hadco New London LED Post or approved equal*

•**Product Features:**

- 64, 4000K (neutral) Philips Lumileds Luxeon R LEDs
- Minimum 70 Color Rendering Index (CRI)
- 100,000 hours of operational life
- Philips Advanced Xitanium LED Driver, RoHS compliant
- ETL/cETL listed to U.S. safety standards for wet locations
- ISO 9001 2008 quality control
- LM79 & LM80 tested
- LEDs tested by an ISO 17025-2005 accredited lab in accordance with IESNA LM-80 guidelines in compliance with EPA ENERGY STAR
- Thermoset polyester powder coat (ASTM B117 specification). Color: Bronze

DIVISION 26 - ELECTRICAL

OVERVIEW

•**Product:** *Acuity Brands Lithonia MR1-LED Omero or approved equal*

•**Product Features:**

- Intended use for parking areas, street lighting, and walkways
- Single-piece die-cast aluminum housing
- Exterior parts protected by a zinc-infused thermoset powder coat finish to provide resistance to corrosion and weathering
- Light standard is 4000 K, but also available in 3000K or 5000K
- Standard Super Durable colors include dark bronze, black (recommended), natural aluminum and white
- CSA certified to U.S. standards. IP65 rated
- 5-year limited warranty

•**Product:** *Forms + Surfaces Helio Bollard or approved equal*

•**Product Features:**

- Available in 6", 9" or 12" diameters. Height standard is 40"
- Illuminated bollards are available with 180 and 360 light distribution options
- 3000K warm white and 4000K neutral white color temperatures
- Surface Mount, Deep Set or Shallow Mount installation options
- Surge protector as part of each unit's wiring is recommended
- Stainless steel column, frosted acrylic lens, and stainless steel head cap
- Satin finish and Ceramiloc treatment. RAL colors are available for optional powdercoat
- Metal surfaces can be cleaned with a soft cloth or brush with warm water and a mild detergent. Avoid abrasive cleaners
- ETL and C-ETL listed for wet locations
- Optional security core recommended to guard against vehicle infringement

•**Product:** *Acuity Brand Lithonia D-Series Floodlight or approved equal*

•**Product Features:**








- Intended use for general areas, security, façade, flagpole and signage lighting application
- Rugged die-cast aluminum with integral heat sink fins that optimize thermal management
- Exterior parts protected by a zinc-infused thermoset powder coat finish to provide resistance to corrosion and weathering
- Standard Super Durable colors include dark bronze, black (recommended), natural aluminum and white
- CSA certified to U.S. standards
- 5-year limited warranty

•**Product:** *OCL Lighting Neo Outdoor Pendant or approved equal*

•**Product Features:**

- Fully enclosed, seamless one piece molded diffuser
- IK10 Impact rating
- 18" and 24" diameters available
- ETL listed for wet locations to UL1598. IP66 rated
- UV Stable Acrylic
- Finishes available in metallic, solid or textured powder coat

DIVISION 26 - ELECTRICAL

DIVISION 26 - ELECTRICAL							
SPEC	IMAGE	MATERIAL TYPE	MANUFACTURER	SERIES/PATTERN	COLOR/FINISH	SIZE/ INFO	COMMENTS
LT-V-1		Light Poles	Acuity Brands	Lithonia D-Series LED Area Luminaires	Black	-	https://www.acuitybrands.com/products/family/d-series-led-area-lights
LT-V-2		Hanging Lights	Philips Hadco	LEDgine LED Teardrop Pendant (TXF9)	Bronze	-	https://www.signify.com/api/assets/v1/file/Signify/content/ece4f708737b4ba2996acaf50152145d/Urban_SpecSheet_TXF9.pdf
LT-P-1		Light Poles	Philips Hadco	New London LED post top large (VX891)	Bronze	12"-6", 4700LM LED 4000K	https://www.signify.com/en-us/products/outdoor-luminaires/urban/posttop/new-london-led-post-top-large-vx8911
LT-P-2		Light Poles	Acuity Brands	Lithonia MR1-LED Omero	Black	-	https://www.acuitybrands.com/products/detail/95848/lithonia-lighting/mr1-led/omerot-area-and-roadway-lighting-led-outdoor-size-1
LT-P-3		Illuminated Bollard	Forms + Surfaces	Helio Bollard	Stainless Steel	Diameter: 6.9 and 12", H: 40". 424LM LED 3000K	https://www.forms-surfaces.com/helio-bollard Product is crash rated
LT-P-4		LED Floodlight	Acuity Brands	Lithonia D-Series DSXF3	Black	Varies: Sizes 1,2,3	https://www.acuitybrands.com/products/detail/21644/lithonia-lighting/d-series-flood-size-3/d-series-led-floodlight-outdoor-size-3
LT-P-5		Exterior Decorative Dome	OCL Lighting	Neo Outdoor Pendant	Silver Metallic	NE1-C10A-24-MW-SMP, LED1-35K-UNV-DM1	https://oclighting.com/wp-content/uploads/2023/07/OCL_NE1_SURFACE_LED_SPEC_SEP2024.pdf

DIVISION 32

EXTERIOR IMPROVEMENTS

DIVISION 32 – EXTERIOR IMP.(PAVING)

OVERVIEW

•**Product:** *Porous Asphalt*

•**Product Requirements:**

Product must meet or exceed minimum requirements for the following:

- Air voids: 16% minimum
- Asphalt content: 5.75% minimum by weight of total mix
- Draindown test: 0.3% maximum
- Moisture susceptibility
- Soil infiltration rates of 0.1 to 10 inches/hours work best
- Minimum depth to bedrock or seasonal high water greater than 2 feet
- Limit the maximum slope of surface to 5%

•**Product:** *HydroPAVERS Porous Pre-Cast Concrete Unit or approved alternative based on design intent*

•**Product Features:**

- Complies with CAS A231.2-14 and ASTM C936
- Satisfies and exceeds the requirements of H20 Standards for heavy vehicles
- Density and Absorption in accordance with CSA A23.2-11C (6.9% absorption)
- Infiltration Rate in accordance with ASTM C1781 (average 88.2 inches/hr)
- De-icing Durability in accordance with Section 7.3 of CSA A231.2-14
- Dark Grey - 003 and Indian Red - 017 recommended colors
- Dimensions: 5.91" x 11.81" x 2.17"

•**Product:** *Hanover Permeable Paving Units or approved alternative based on design intent*

•**Product Features:**

- Meet or exceed ASTM specification for concrete paving stones C936-82
- Minimum compressive strength: 8000 psi
- Maximum absorption: 5% at 50 cycles of freeze thaw testing per section ASTM C67
- Resistant to oil spillage and diesel fuel
- Uniform joint for water drainage
- Dimensions: 4 1/2" x 9" recommended (ADA Compliant)

•**Product:** *Hanover Pre-Cast Concrete Detectable Warning or approved alternative*

•**Product Features:**

- Not recommended for areas subject to vehicular traffic
- Meet or exceed ASTM specifications for concrete paving stones C936
- Minimum compressive strength: 8000 psi
- Maximum absorption: 5% at 50 cycles of freeze thaw testing per section ASTM C67
- Non-slip properes on top surface
- Dimensions available: 11 3/4" x 11 3/4" and 23 1/2" x 23 1/2"
- Colors: Charcoal, Red 15, and Yellow (#M1517)

DIVISION 32 – EXTERIOR IMP.(PAVING)

OVERVIEW

•**Product:** *Curb*

•**Product Requirements:**

Product must meet or exceed minimum requirements for the following:

- Terminate curb and gutter by transitioning on a maximum slope of 1:12 to pavement surface
- Extend joint filler 6" minimum behind curb on both sides of curb box

Codes and Specifications- product must meet or exceed requirements for the following:

- BC 406.7.6: Size and location requirements for curb cuts
- BC 406.7.7: Driveway size and location
- BC 3307: pedestrian protection during construction
- Material and construction requirements should meet Section 609 of the Standard Specifications (NYS, DOT)
- DOT Sheet Number 609-01

•**Product:** *Ennis-Flint Pavement Markings Preformed Thermoplastic or approved alternative*

•**Product Features:**




- Impervious to oil and gasoline
- Made with up to 60% recycled material
- 24-month shelf life
- No surface preheating required for installation (allowing for year-round application)
- Precut and ready to use
- Reflective beads and/or anti-skid elements to be added in road stripping
- ADA-compliant pedestrian and wheelchair friendly surface

•**Product:** *Invisible Structures Grass Paver or approved alternative*

•**Product Features:**

- High density polyethylene (HDPE): 100% recycled materials
- Carbon Black for ultraviolet light stabilization
- Maximum Loading Capability: 5721 psi when filled with sand
- Wheelchair testing for ADA compliance: passing ASTM F 1951-08 and Rotational Penetrometer testing
- System Permeability: 2.63 to 38.55 inches/hour
- Effective Imperviousness (E.I.): 10%
- Install turf when ambient air temperatures is at least 55 degrees
- Adequately water sod or grass seed to assure germination of seed and growth of root system
- Do not drive or park on Grasspave2 System for two or three mowing cycles until grass root system has matured (3-4 weeks for sod, 6 to 8 weeks for seeded areas)

DIVISION 32 - EXTERIOR IMP.(PAVING)

DIVISION 32 - EXTERIOR IMPROVEMENTS							
SPEC	IMAGE	MATERIAL TYPE	MANUFACTURER	SERIES/PATTERN	COLOR/FINISH	SIZE	COMMENTS
PVMT-1		Exterior Paving	TBD	Porous Asphalt	Black	-	Requires vacuum sweeping on a quarterly schedule (O&M to coordinate)
PVMT-2		Exterior Paving	HydroPAVERS	Porous Pre-Cast Concrete Unit	Grey	1' x 2'	See standard construction detail, available sizes, color range, and maintenance notes (https://hydropavers.ca/)
PVMT-3		Exterior Paving	Hanover	Permeable Paving Units	Grey	Varies: Type 1, Type 2 (4"x8")	See standard construction detail, available sizes, and maintenance notes (https://hanoverpavers.com/permeable-paving-units-family/)
PVMT-4		Exterior Paving	HydroPAVERS	Porous Pre-Cast Concrete Unit	Indian Red	Varies: 4"x8", 6"x12", option for custom size / shape	See standard construction detail, available sizes, color range, and maintenance notes (https://hydropavers.ca/)
PVMT-5		Exterior Paving	Hanover	Pre-Cast Concrete Detectable Warning	Grey	Varies: 12"x12", 24"x24"	See standard construction detail, available sizes, and ADA notes (https://hanoverpavers.com/detectable-warning/)
PVMT-6		Curb	TBD	Curb	Concrete	-	Material and construction requirements should meet Section 609 of the Standard Specifications (NYS, DOT)
PVMT-7		Exterior Paving Markings	Ennis-Flint	Pavement Markings Preformed Thermoplastic	White	-	https://www.ppg.com/traffic/en-US
PVMT-8		Exterior Paving - Natural	Invisible Structures, Inc.	Grass Paver 2	Grass	-	https://invisiblestructures.com/

DIVISION 32 – EXTERIOR IMP.(FURNISHING)

OVERVIEW

Note: All outdoor furniture to be coordinated with NCC Department of Design and Construction.

•**Product:** *Keystone Ridge Designs Easton Table Set or approved alternative*

•**Product Features:**

- Support: bolt down or freestanding
- Top: round (recommended) or square powder coated steel
- Color: standard KEYSHIELD powder coat. Black recommended
- 4, 5, and 6 seat options. 4 recommended set per existing furnishing on campus
- Fully welded commercial-grade steel construction

•**Product:** *Keystone Ridge Designs Midtown Bench with Back or approved alternative*

•**Product Features:**

- Support: bolt down or freestanding
- Color: standard KEYSHIELD powder coat. Black recommended
- Fully welded commercial-grade steel construction
- Lengths options available: 50 ½", 72 ½", and 94 ½"

•**Product:** *Keystone Ridge Designs Midtown Dual Recycle/Litter Receptacle or approved alternative*

•**Product Features:**

- Support: elevated or adjustable
- Color: standard KEYSHIELD powder coat., in black
- Fully assembled unit
- Dual Elevated Weather-Protectant Lid is required
- Door option is required
- Smaller lid to include recycling logo
- Enhancements available (e.g. ash filler, ash sifter, message lids)

•**Product:** *DuMor Bollard or approved alternative*

•**Product Features:**

- Steel Bollard, 36" high, 6" square, 113 lbs
- Steel members coated with zinc rich epoxy then finished with polyester powder coating
- Color: Gray
- Concrete Footing per requirements of Item 17A - Class A Concrete for Structures

DIVISION 32 – EXTERIOR IMP.(FURNISHING)

OVERVIEW

•**Product:** *Dero Swerve Bike Rack or approved alternative*

•**Product Features:**

- High security
- Several mounting options available
- 2 bikes per rack
- Material: 1.9" OD schedule 40 pipe
- Standard finishes: hot dipped galvanized finish. Others available include powder coat colors, thermoplastic coating, PVC dip, and stainless steel 304 grade
- Installation options: in ground embedded into concrete base, surface foot mount, or rail mounted (freestanding or anchored to the ground).
- Recommended setbacks from walls: 36"
- Recommended distance between racks: 36"

•**Product:** *Urban Accessories Jamison Tree Grate or approved alternative*

•**Product Features:**

- Material will be high quality ASTM A36 mild steel
- Material options: Aluminum 6061 T6, Architectural Bronze
- Default finish will be natural patina of raw material
- Frames are load rated for pedestrian traffic only
- Gap of 1/8" is typical between grate and interior frame edge
- Top of grate to be flush with grade
- See manufacturer's cut sheet for type options according to pavement type

•**Product:** *Guard/Handrail*

•**Product Requirements:**

NCC to adopt most recent guard/handrail design on campus (ref.: plaza near Building CCB)









- Guardrail Minimum Height: 42"
- Handrail Minimum Height: 36"
- ADA Compliance for grip and usability
- Material and Finishes: stainless steel, aluminum, or galvanized steel with protective powder coatings.
- ASTM Standards for Corrosion Resistance

•**Product:** *Talk-a-Phone Emergency Phone Tower or approved alternative*

•**Product Features:**

- Option A: Standalone Tower (ETP-MT/R OP 4 - Radius Emergency Phone Tower)
- Option B: Wall Mounted version (WEBS-WM - Wall Mount)
- Tower Color: Safety Orange O45F
- Reflective Lettering Text: Emergency
- Reflective Lettering Color: Blue A 7822R
- Lighting Voltage: 120VAC
- Add color pinhole camera behind phone faceplate
- Recommended Two Buttons (VOIP-500D) Series
- For Standalone Tower: include fixed camera option (OP3)

DIVISION 32 - EXTERIOR IMP. (FURNISHING)

DIVISION 32 - EXTERIOR IMPROVEMENTS							
SPEC	IMAGE	MATERIAL TYPE	MANUFACTURER	SERIES/PATTERN	COLOR/FINISH	SIZE	COMMENTS
FURN-1		Outdoor Furniture	Keystone Ridge Designs	EA6-2 - Easton Table Set	Matt/Gloss Black	L: 96 3/8 in, W: 96 3/8 in, H: 33 in	https://www.keystoneridgedesigns.com/products/ProductDetail.aspx?prodid=1607
FURN-2		Outdoor Furniture	Keystone Ridge Designs	MT24/26/28 - Midtown Bench With Back	Matt/Gloss Black	Available with 4, 6 or 8 ft	https://www.keystoneridgedesigns.com/products/ProductDetail.aspx?prodid=937
FURN-3		Outdoor Furniture	Keystone Ridge Designs	MT3 - Midtown Dual Recycle/Litter Receptacle	Matt/Gloss Black	Varies	https://www.keystoneridgedesigns.com/products/ProductDetail.aspx?prodid=1904
FURN-4		Outdoor Furniture	DuMor	Bollard 402	Polyester Powder Finish	H: 36" or 42"	https://www.dumor.com/products/bollard-402
FURN-5		Outdoor Furniture	Dero	Swerve Bike Rack	Galvanized/Stainless/Powder Coat	3,4,5 or 6 Per Rail	https://www.dero.com/product/swerve-rack/
FURN-6		Outdoor Furniture	Urban Accessories	Jamison Tree Grate	Grey Iron	Varies	https://urbanaccessories.com/products/grating/tree-grates/jamison/
FURN-7		Outdoor Furniture	N/A	Guard/Handrail	Stainless Steel / Aluminum / Galvanized Steel with protective powder coating	Guardrail: 42" minimum height Handrail: 36" minimum height	NCC to adopt most recent guard/handrail design on campus (see sunken plaza near Building CCB)
SEC-1		Emergency Phone	Talk-a-Phone	ETP-MT/R OP 4 - Radius Emergency Phone Tower	Safety Orange 045F	-	https://www.talkaphone.com/
SEC-2		Emergency Phone	Talk-a-Phone	WEBS-WM - Wall Mount	Safety Orange 045F	-	https://www.talkaphone.com/

DIVISION 32 – EXTERIOR IMP.(PLANTING)

OVERVIEW – PLANTING & FINE GRADING

Scope of Work

The work of this of this section consists of all planting, lawns, and fine grading and related items as indicated on the Drawings and/or as specified herein and includes, but is not limited to, the following:

1. Providing and installing plants indicated and scheduled.
2. Fine Grading
3. Protecting and maintaining the drainage system and completed work
4. Short-term maintenance
5. Warranty review and reporting
6. Maintenance manuals
7. Testing
8. Clean-up

Plant Material & Planting Season

Work only within seasonal limitations for proper planting as follows:

1. Lawn, sod (Spring) Apr 15 to June 15 (Autumn) Sept 15 to Oct 30
2. Deciduous [B&B] (Spring) Mar 1 to Jun 1 (Autumn) Sep 1 to Nov 15
3. Deciduous [Cont.] (Spring) Mar 15 to Jun 15 (Autumn) Sep 15 to Nov 15
4. Evergreens (Spring) Mar 15 to Jun 15 (Autumn) Aug 15 to Nov 15A.

Plant & Tree Maintenance

Begin maintenance immediately after planting. Maintenance period includes watering at least twice a week for the duration of the period (additional watering may be required in periods of drought or if irrigation system is inoperative). Provide complete maintenance and service as required to promote and maintain healthy growth including, without limitation, watering, fertilizing, pruning, trimming, cultivating, weeding, fallen leaf removal, treating for insects and disease, resetting plants to proper grade and upright position, and other operations and maintenance work.

Hempstead Plains (Notes & Maintenance)

- The Hempstead Plains includes 250 species of plants in the ecosystem, and nearly 20 rare species native to NYS.
- Plains must be mowed seasonally - once or twice a semester.
- As fire is a natural part of grassland ecosystems, burning of the grasslands is key to ensuring its health and growth.
 - i. Supports regrowth of native prairie grasses and forbs
 - ii. Reduces encroaching woody vegetation and invasive plants
- Ensure that the quality /viability of the Hempstead Plain networked gardens in future planning initiatives does not decline due to invasive species encroachment, fire suppression, and trash dumping, and integrate maintenance and awareness into future curriculum.

Warranty

Provide written one-year warranty agreeing to remove and replace work that exhibits defects in materials or workmanship for the specified periods. "Defects" is defined to include, but is not limited to, death, unsatisfactory growth, disease, abnormal foliage density, abnormal size, abnormal color, failure to thrive, and other unsatisfactory characteristics.

Trees & Shrubs

Provide specimen container grown and balled and burlapped, as specified, trees of height, size, caliper, genus, species, and cultivar indicated and with branching configuration and number of canes required by ANSI Z60.1 and specified herein.

DIVISION 32 – EXTERIOR IMP.(PLANTING)

OVERVIEW – SITE PREPARATION, PROTECTION & CLEARING


















Scope of Work

1. Protection of existing improvements to remain.
2. Protection of existing trees to remain (see below).
3. Removal for salvage and/or relocation of existing items including transportation, protection and placement of salvaged materials in Owner designated storage areas including:
 - Stripping and removal of topsoil.
 - Cutting of existing grade to establish construction grade.
 - Clearing, grubbing, removal and disposal of vegetation.
4. Coordination of disconnection and capping of utilities as needed.
5. Complete controlled, selective demolition and removal from the site of all existing construction, materials, and systems as needed to properly complete the work of the Contract Documents.
6. Disposal of removed items and materials not otherwise indicated to be salvaged and delivered to Owner.
7. Coordination with associated construction contracts.
8. Post construction cleanup.


















Tree Protection Requirements

1. Tree and Site Related Disturbances
 - a. Individual trees or stands of trees designated to be saved shall be protected from the following damages which may occur during all phases of land disturbance and construction processes.
 - i. Direct physical root damage
 - ii. Indirect root damage
 - iii. Trunk and crown disturbances
 - b. Direct physical root damage most frequently occurs during site clearing and grading operations, where transport or feeder roots are cut, torn, or removed.
 - c. Indirect root damage through site modification can result from positive grade changes, temporary storage of fill material, the sedimentation of erosion materials, soil compaction, and soil chemical changes.
2. Methods of Tree Protection
 - a. The root system within the dripline region is generally considered to be the critical root zone. Disturbance within this zone can directly affect a tree's chances for survival. To protect these critical root zones the following standards shall apply:
 - i. The use of tree save islands is encouraged rather than the protection of individual trees scattered throughout the site. This will facilitate ease in overall site organization as related to tree protection.
 - ii. The protective zone of individual trees or stands of trees or otherwise designated tree save areas shall include no less than the total area beneath the tree(s) canopy as defined by the farthest canopy dripline of the tree.
 - b. Layout of the project site utility and grading plans shall accommodate the required tree protection zones. Utilities must be placed along corridors between the tree protection zones.
 - c. Construction site activities such as parking, material storage, concrete washout, etc., shall be arranged to prevent disturbances within tree protective zones.
 - d. No disturbance shall occur within the protective zone of individual trees or stands of trees without prior approval of the Owner.


















DIVISION 32 - EXTERIOR IMP.(TREES)

DIVISION 32 - EXTERIOR IMPROVEMENTS				
SPEC	IMAGE	SPECIES	COMMON NAME	COMMENTS
TR1		PLATANUS X ACERIFOLIA	London Plane Tree	N/A
TR2		GINKGO BILOBA FASTIGIATA	Columnar Ginkgo	N/A
TR3		CARPINUS BETULUS FRANS FONTAINE	Columnar European Hornbeam	N/A
TR4		ZELKOVA SERRATA	Japanese Zelkova	N/A
TR5		TILIA CORDATA	Littleleaf Linden	N/A
TR6		QUERCUS SP.	Oak (varies by species)	N/A
TR7		QUERCUS ALBA	White Oak	N/A
TR8		QUERCUS COCCINEA	Scarlet Oak	N/A
TR9		QUERCUS VELUTINA	Black Oak	N/A
TR10		ACER RUBRUM	Red Maple	N/A
TR11		JUNIPERUS VIRGINIANA	Eastern Redcedar	N/A
TR12		AMELANCHIER CANADENSIS	Shadblow Serviceberry	N/A
TR13		CERCIS CANADENSIS	Eastern Redbud	N/A
TR14		AMELANCHIER LAEVIS	Allegheny Serviceberry	N/A
TR15		MAGNOLIA GRANDIFLORA	Southern Magnolia	N/A
TR16		MAGNOLIA VIRGINIANA	Sweetbay Magnolia	N/A
TR17		PRUNUS SERRULATA	Japanese Flowering Cherry	N/A

DIVISION 32 - EXTERIOR IMP.(TREES & SHRUBS)

DIVISION 32 - EXTERIOR IMPROVEMENTS				
SPEC	IMAGE	SPECIES	COMMON NAME	COMMENTS
TR18		SYRINGA RETICULATA	Japanese Tree Lilac	N/A
TR19		CORNUS MAS	Cornelian Cherry	N/A
TR20		PINUS STROBUS	Eastern White Pine	N/A
TR21		PINUS RIGIDA	Pitch Pine	N/A
TR22		NYSSA SYLVATICA	Black Tupelo (or Black Gum)	N/A
TR23		TAXODIUM DISTICHUM	Bald Cypress	N/A
TR24		BETULA NIGRA BNMFT	Dura-Heat River Birch	N/A
TR25		QUERCUS BICOLOR	Swamp White Oak	N/A
SH1		YUCCA FILAMENTOSA	Adam's Needle	N/A
SH2		RHUS AROMATICA	Fragrant Sumac	N/A
SH3		CLETHRA ALNIFOLIA	Summersweet	N/A
SH4		RHODODENDRON INDICA FORMOSA	Formosa Azalea	N/A
SH5		HAMAMELIS VIRGINIANA	American Witch Hazel	N/A
SH6		ILEX VERTICILATA	Winterberry	N/A
SH7		VACCINIUM ANGUSTIFOLIUM	Lowbush Blueberry	N/A
SH8		VACCINIUM CORYMBOSUM	Highbush Blueberry	N/A
SH9		CORNUS CERICEA	Redosier Dogwood	N/A

DIVISION 32 - EXTERIOR IMP.(GROUND COVER)

DIVISION 32 - EXTERIOR IMPROVEMENTS				
SPEC	IMAGE	SPECIES	COMMON NAME	COMMENTS
GC1		CAREX PENNSYLVANICA	Pennsylvania Sedge	N/A
GC2		JUNIPERUS HORIZONTALIS BLUE CHIP	Blue Chip Creeping Juniper	N/A
GC3		TRIFOLIUM REPENS	White Clover	N/A
GC4		PANICUM VIRGATUM SHENANDOAH	Shenandoah Switchgrass	N/A
GC5		ERAGROSTIS SPECTABILIS	Purple Lovegrass	N/A
GC6		EURYBIA DIVARICATA	White Wood Aster	N/A
GC7		PTERIDIUM AQUILINUM	Bracken Fern	N/A
GC8		POLYSTICHUM ACROSTICHOIDES	Christmas Fern	N/A
GC9		GAULTHERIA PROCUMBENS	Wintergreen	N/A
GC10		POLYGONATUM BIFLORUM	Solomon's Seal	N/A
GC11		ANDROPOGON GERARDII	Big Bluestem	Specie is within the Hempstead Plains palette
GC12		ASCLEPIA SYRICA	Common Milkweed	Specie is within the Hempstead Plains palette
GC13		ASCLEPIAS TUBEROSA	Butterfly Weed	Specie is within the Hempstead Plains palette
GC14		BAPTISIA AUSTRALIS	Blue False Indigo	Specie is within the Hempstead Plains palette
GC15		BAPTISIA TINCTORIA	Yellow Wild Indigo	Specie is within the Hempstead Plains palette
GC16		EUPATORIUM HYSSOPIFOLIUM	Hyssop-Leaved Thoroughwort	Specie is within the Hempstead Plains palette
GC17		SCHIZACHYRIUM SCOPARIUM	Little Bluestem	Specie is within the Hempstead Plains palette

DIVISION 32 - EXTERIOR IMP.(GROUND COVER)

DIVISION 32 - EXTERIOR IMPROVEMENTS				
SPEC	IMAGE	SPECIES	COMMON NAME	COMMENTS
GC18		SOLIDAGO JUNCEA	Early Goldenrod	Specie is within the Hempstead Plains palette
GC19		SORGHASTRUM NUTANS	Indian Grass	Specie is within the Hempstead Plains palette
GC20		TRIDEN FLAVUS	Purpletop	Specie is within the Hempstead Plains palette
GC21		VIOLA PEDATA	Bird's Foot Violet	Specie is within the Hempstead Plains palette
GC22		PANICUM VIRGATUM HEAVY METAL	Heavy Metal Switchgrass	N/A
GC23		AMSONIA ILLUSTRIS	Shining Bluestar	N/A
GC24		AMSONIA TABERNAEMONTANA	Eastern Bluestar	N/A
GC25		ASTER CORDIFOLIUS	Blue Wood Aster	N/A
GC26		EUPATORIUM PURPUREUM	Joe Pye Weed	N/A
GC27		IRIS VERSICOLOR	Blue Flag Iris	N/A
GC28		SOLIDAGO SPECIOSA	Showy Goldenrod	N/A
GC29		COREOPSIS LANCEOLATA	Lanceleaf Coreopsis	N/A
GC30		COREOPSIS PALUSTRIS SUMMER SUNSHINE	Summer Sunshine Swamp Coreopsis	N/A
GC31		SEDUM	Stonecrop	N/A



END OF SAMPLE DOCUMENT