MON-B06

Great Places - Safe Spaces: A Holistic Approach to integrating Security with Design

Monday, November 18, 2013
10:00 - 11:30 am

Adam Greenspan, PWP Landscape Architecture
Angela McDonald, HLB Lighting Design
Jenny Sasson, PWP Landscape Architecture

As designers how do we navigate a complex redesign process late in design documentation and maintain the core design vision? This session will showcase the tactical and investigative process that PWP Landscape Architecture and Horton Lees Brogden Lighting Design navigated for the Transbay Transit Center Rooftop Park project, a 5-acre public park atop the “Grand Central Station of the West” in downtown San Francisco. Through a critical examination of new lighting and security criteria and an on-the-ground assessment of comparable sites, the team gained consensus from the owner and public agencies on a design response that satisfied the technical requirements while enhancing the core vision of the original design. The Landscape Architect and Lighting Designer will exhibit the specific lighting research data gleaned from similar parks in San Francisco and will describe the security and lighting concepts that became the basis for design, resulting in elements and a layout that are both character-defining components of this public space as well as integral parts of a holistic lighting and security scheme.
Learning Objectives

Understand how to navigate a complex client/consultant group to build consensus.

Learn how to derive design solutions that satisfy new owner-directed criteria while not straying from aesthetic goals and project vision.

Master the vocabulary of lighting design and its role in place making.

Understand the process of the development of a custom fixture design as a response to unique, project-specific requirements.

Presentation Outline

1. Case Study Project Introduction
   - Transbay Transit Center Background
   - Original Security and Lighting Design Overview

2. Original Security and Updated Security Criteria
   - Tools For Communicating Impacts to the Client

3. Comparative Parks: Inventory and Consensus
   - Lighting “Field Trip”
     - Inventory of conditions in comparative San Francisco parks
     - Outcome and consensus

4. Development of New Lighting and Security Strategy
GREAT PLACES - SAFE SPACES: A HOLISTIC APPROACH TO INTEGRATING SECURITY WITH DESIGN

Lighting Diagram | Revised Design

Lighting Diagram | Original Design

Park Nightime Rendering | Revised Design
PROJECT SITE:
Transbay Transit Center

COMPARATIVE SITES
1. UCSF Mission Bay | Gene Friend Way and Koret Quad
2. Mission Bay Commons Park
3. Mission Creek Park South
4. Yerba Buena Gardens
5. Sue Bierman Park
6. One Maritime Plaza
7. Levi’s Park and Plaza
<table>
<thead>
<tr>
<th>Location</th>
<th>Fixture Type Summary</th>
<th>Sources</th>
<th>Light Levels (fc = footcandles)</th>
<th>Uniformity (maximum:minimum)</th>
</tr>
</thead>
</table>
| Transbay Transit Center | • LED strip light integrated into handrail  
  • pole-mounted floodlights  
  • tree-mounted downlight  
  • power pipe-mounted landscape light | high color rendering ceramic metal halide, LED | • pathways: 1.0 fc average (current criteria)  
  • pathways: 1.1 fc average (HLB scope only) | 40:1 (current criteria)  
  20:1 (HLB scope only) |
| 1. UCSF Mission Bay - Gene Friend Way and Koret Quad | • pole-mounted direct/indirect area lights  
  • in-grade adjustable uplights | high color rendering ceramic metal halide | • south of Gene Friend Way benches: 1.0 fc average  
  • at Gene Friend Way benches: 1.25 fc average  
  • north of Gene Friend Way benches: 0.8 fc average  
  • path thru Koret Quad: 0.4 fc average | 5:1 at Gene Friend Way  
  4:1 at Koret Quad pathway |
| 2. Mission Bay Commons Park | • pole-mounted area lights | high color rendering ceramic metal halide | • corners at 3rd Street: 2.0 fc average  
  • west stairs: 2.0 fc average  
  • west pathways: 1.2 fc average  
  • east stairs: 0.8 fc average  
  • east pathways: 0.7 fc average | 13:1 for entire park  
  3:1 on pathways |
| 3. Mission Creek Park South | • pole-mounted area lights  
  • step lights  
  • recessed downlights  
  • in-grade accent/marker lights | high color rendering ceramic metal halide, compact fluorescent | • pathways: 0.3 fc average  
  • amphitheater: 0.4 fc average at pathway, 4.0 - 6.0 fc at step lights  
  • at pavilion: 5.0 fc maximum, 0.7 fc average | 8:1 on pathways  
  50:1 for entire park |
| 4. Yerba Buena Gardens | • triangle-shaped luminous column poles  
  • jelly jars  
  • cylindrical bollards  
  • step lights  
  • luminous fixtures integrated into railings  
  • pole-mounted floodlights  
  • wall-mounted colored floodlights  
  • wall-mounted sconces | metal halide, compact fluorescent, incandescent | • bridge over Howard Street: 1.0 fc at fixtures, 0.1 fc at majority of bridge  
  • pathway leading from bridge: 2.0 fc average  
  • arch-covered pathway: 1.0 fc average  
  • pathways thru grass areas: 1.6 fc average  
  • stairs: 1.0 fc average  
  • ramps: 5.0 fc maximum at step lights, 0.1 fc at majority of ramp | 50:1 |
| 5. Sue Bierman Park | • pole-mounted area lights  
  • pole-mounted double-headed acorn fixtures | metal halide | • pathways: 0.8 fc average  
  • along The Embarcadero: 2.0 - 3.0 fc at sidewalk fading to 0.5 fc in grass area  
  • grass areas away from The Embarcadero: 0.2 fc average | 30:1 |
| 6. One Maritime Plaza | • recessed downlights  
  • cylindrical bollards with luminous globes  
  • luminous jelly jar accents  
  • step lights  
  • wall and pole-mounted luminous globe fixtures  
  • wall packs | metal halide, high pressure sodium compact fluorescent, incandescent | • building overhangs and 20’ into plaza: 2.8 fc average  
  • center of plaza and alcoves: 2.0 fc average  
  • areas adjacent to single-story buildings: 0.3 fc average | 50:1 |
| 7. Levi’s Park and Plaza | • pole-mounted area lights  
  • step lights  
  • pole-mounted floodlights  
  • recessed downlights  
  • square-shaped bollards | metal halide, high pressure sodium compact fluorescent, halogen | • pathways in park: 1.8 fc average  
  • plaza: 1.3 fc average  
  • pathway to Sansome Street: 0.4 fc average | 40:1 |

Note: All light levels are based on readings taken during a site visit and are approximate. Point-by-point light level calculations have not been performed.
SNC-DH280 SECURITY CAMERA ELEVATION

REQUIRED SPEAKER ELEVATION

LIGHT FIXTURE

SECURITY CAMERA

AMBER FLASHING LIGHT

PUBLIC ADDRESS SPEAKER WITH PERFORATED METAL MESH

ACCESS PANEL AND ELECTRICAL RECEPTACLE
Lighting and Security Pylon | Design Mockup
Horton Lees Brogden Lighting Design

Horton Lees Brogden Lighting Design is an internationally recognized design firm focused on architectural lighting for both interior and exterior environments. We are inspired by the artistry of light and its impact on the natural and architectural environment. We infuse our core values of artistry, legacy, curiosity, balance, and integrity into every project. We thrive with intriguing projects that engage us conceptually and challenge us technically. We seek to enhance our clients’ experiences and create a legacy of design that respects its environment and promotes a better future. Our services are customized to provide the best lighted environments to meet our clients’ needs.

HLB is a collaborative firm, filled with dynamic people whose enthusiasm for what we do infuses both our professional and personal lives. We are driven by an experienced team that is rewarded for its originality, commitment, and leadership. Our Principals are engaged in every project from concept to commissioning to ensure the clients’ needs are realized at every step. Our design and technical experts hail from many parts of the world and form the basis for HLB’s proven ability to produce outstanding, award-winning designs.

PWP Landscape Architecture

For nearly 30 years PWP Landscape Architecture, under the leadership of Peter Walker, has developed a tradition of design practice that responds to as well as influences its environment. The partners, associates, and staff bring a range of interests and expertise together around our shared ambition to create legible, beautiful, and enduring places.

Our design process combines knowledge of history and tradition with fluency in contemporary landscape debate. We bring our mastery of construction to bear on the latest technologies and innovations. We draw on our extensive experience with project delivery in some of the world’s most politically and physically complex environments to address the challenges of each project. Through constant interchange with clients and architects and the effective management of numerous and diverse consultants, PWP produces landscape architecture of the highest caliber.
Adam Greenspan, PWP Landscape Architecture
Adam Greenspan is a senior design partner at PWP Landscape Architecture and has been the lead designer on a wide range of projects including public parks, campuses, mixed use developments, competitions and estates. Adam’s recent projects include: the Newport Beach Civic Center Park in Newport Beach California, Constitution Gardens on the National Mall in Washington DC, The Transbay Transit Center Park, San Francisco, Marina Bay Sands Integrated Resort, Singapore, and Glenstone in Potomac, MD. Adam has served on public art selection panels for the City of San Jose and the City of Santa Monica and currently serves on the Board of Directors for the Landscape Architecture Foundation.

Angela McDonald, Horton Lees Brogden Lighting Design
Angela McDonald joined HLB in 1995. She is currently Vice President and Senior Principal and manages the San Francisco office. Her body of work encompasses a wide range of projects including lighting design for master planning, landscapes and site development. Angela’s recent projects include: Transbay Transit Center Park - San Francisco, Intuit Campus Site Lighting -- Mountain View, California, Mission Creek Parks -- San Francisco and Jack S. Blanton Museum of Art Plaza -- Austin, Texas. A master at her craft, Angela McDonald’s collaborative and innovative solutions shed light to all types of design challenges.

Jenny Sasson, PWP Landscape Architecture
Jenny Sasson is Senior Associate with nearly ten years of experience working at PWP. She manages and executes the Transbay Transit Center project, a 5-acre rooftop park and 4-block long ground level streetscape. She has the ability to easily shift between client relations and design oversight while moving her projects to reality. Recent projects include the Transbay Tower - Mission Square project in San Francisco, California, the Blanton Museum of Art in Austin, Texas and Landmarks | Public Art Master Plan for the University of Austin, Texas. Jenny holds a BA and an MLA from the University of California, Berkeley and is a registered landscape architect in the state of California.