United States Land Port of Entry
Columbus New Mexico

Architect: Richter Architects
MEP Engineers: IMEG Corp
Structural Engineers: Walter P Moore
Civil Engineers: JQ, LLC
Landscape Architects: MRWM Landscape Architects
Project Scope
This Land Port of Entry (LPOE) expansion includes new Main building/Cargo Dock, Kennel, Narcotics Vault, POV and Commercial Inspections. Existing facility was too close to the border, compromising security and safety.

Challenges
- Regional watershed - Two major flood events occurred in 2006 and 2011
- Congestion - Single crossing point that serves the privately owned vehicles, commercial traffic and pedestrian traffic.
- Pedestrian Traffic - 800+ Children cross everyday during the school year.
- Truck Traffic - Commercial peak season 100 trucks per day cross, Mostly chili peppers.
- Phasing - LPOE operates 24/7. LPOE must stay operational during construction.

Project Delivery Method
Design Bid Build

Design Start – March 2014
Design End – Sept 2016

Construction Start – Feb 2017
Construction End – 2019

Budget:
Design FY ‘14 - $7,400,000
Construction FY’16 - $79,600,000
M&I – FY’16 - $6,045,000
Landscape Typologies

Chihuahuan Desert
Grasslands

Chihuahuan Desert Scrub

Desert Washes

Desert Riparian Landscapes
Net Zero Energy Strategy
Net Zero Energy Strategy
Renewable Energy Analysis
**LEED Certification Review Report**

This report contains the results of the technical review of an application for LEED certification submitted for the project. LEED certification is a U.S. Green Building Council (USGBC) program that recognizes the benefits of high-performance green buildings. The LEED 2009 New Construction certification system is administered by the GreenBuilding Certification Inc. (GBCI).

**Columbus U.S. Land Port of Entry**

Project ID: 1000006166  
Rating system & version: LEED NC  
Project registration date: 07/23/2015

### LEED 2009 NEW CONSTRUCTION

**ATTEMPTED: 90, DENIED: 9, AWARD: 77 OF 110 POINTS**

<table>
<thead>
<tr>
<th>CATEGORY</th>
<th>POINTS</th>
<th>LEED POINTS</th>
<th>CREDITS</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ENERGY &amp; LIFE CYCLE IMPACTS</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Site Energy</td>
<td>2</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Water Efficiency</td>
<td>8</td>
<td>8</td>
<td>8</td>
</tr>
<tr>
<td>Innovation in Design</td>
<td>22</td>
<td>22</td>
<td>22</td>
</tr>
<tr>
<td><strong>INTERIOR QUALITY</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Material &amp; Resources</td>
<td>35</td>
<td>35</td>
<td>35</td>
</tr>
<tr>
<td><strong>DESIGN &amp; CONSTRUCTION</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sustainable Site Impact</td>
<td>11</td>
<td>11</td>
<td>11</td>
</tr>
<tr>
<td><strong>ADVANCED DESIGN</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>INNOVATION IN DESIGN</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>OPERATION &amp; MAINTENANCE</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
# Silver Certification

Section 1: Site Context  
Section 2: Pre-Design Assessment + Planning  
Section 3: Site Design – Water  
Section 4: Site Design – Soil + Vegetation  
Section 5: Site Design – Materials Selection  
Section 6: Site Design – Human Health and Well-Being  
Section 7: Construction  
Section 8: Operations + Maintenance  
Section 9: Education  
Section 10: Innovation or Exemplary Performance
100% of paving and roof materials high SRI

Over 1 acre of pavement shaded by trees and shade structures

Roughly 6,000 tons recycled concrete used in gabion walls and mattresses

Roughly 12.5 acres of restored grassland

Initial irrigation requirement 76% below EPA WaterSense baseline
Post-establishment irrigation 97% below baseline

Water Harvesting terraces
On-site stormwater management

2.5 million gallons of stormwater directed to landscape annually

(reduction in irrigation use)
Awards/Recognitions/Publication

- AIA COTE Top Ten Award, 2020
- AIA New Mexico Honor Award, 2020
- Texas Society of Architects Design Award, 2020
- LEED Platinum
- Sustainable SITES Initiative Silver
- Texas Architect Oct. 2020
- Socio-Ecological Practice Research, Design with Nature at 50, Sept 2020
- GSA Design Excellence monograph series