

McCarran International Airport Terminal 3

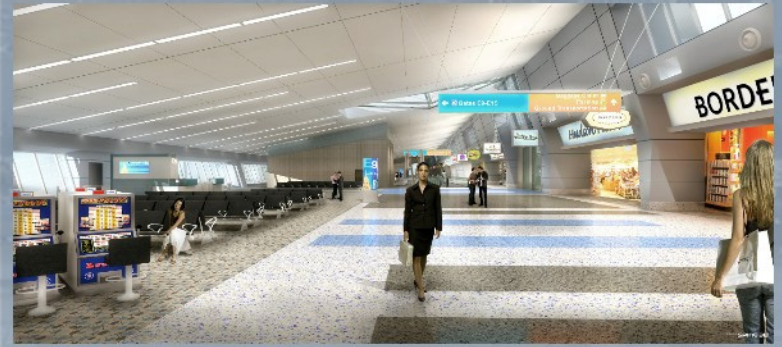
Las Vegas, NV

PRIMARY PROJECT TEAM

Owner: Clark County Dept. of Aviation
Construction Manager: Bechtel Corporation
Architect: PGAL, LLC
Structural: Walter P. Moore
MEP: JBA Consulting Engineers

PROJECT INFORMATION

Size: 1.8 Million SF
No. of Levels: 5 (Including Basement & Penthouse)
Dates of Construction: April 2007 - Mid 2011 (Projected)
Delivery Method: Design - Bid - Build



ARCHITECTURE

- Designed as a unit terminal, to be independent of existing terminals.
- Located on the Northeast portion of the overall airport site.
- Provides (14) new gates serving domestic and international flights, a significant addition to the existing (95) gates at the airport.
- Customs and border patrol areas included for international service.
- A new Automated Transportation System (ATS) station will provide access to the existing Satellite D.
- (2) separate TSA screening areas provided for access to Terminal 3 gates and Satellite D gates. Satellite D remains a fully secure facility.
- Pedestrian access for new parking garage will be provided on Level 1.

STRUCTURAL

- (5) Isolation joints divide the building into (6) structures.
- Foundation made of 3-6' diameter drilled piers 35-75' deep.
- 4.5" thick concrete slab over 3" composite metal deck.
- Typical grid spacing = 40' with few exceptions at 28' or 48'.
- Typical girders in the East-West direction will be W33's and Beams spanning North-South will W24's for 40 ft bays W27's for 48 ft bays, and W18's for 28 ft bays.
- Lateral loads are resisted by braced frames.

ELECTRICAL

- New Nevada power yard at central plant will include (4) 15 kV service entrance switchgear sections and service from (2) separate substations.
- Service to be provided by (4) 10 MVA main feeders and (4) 10 MVA dedicated back up feeders.
- (4) 2000 kW/2500kVA, 480/277 V diesel generators with step up transformers are provided with paralleling switchgear for emergencies.

MECHANICAL

- 24 CV AHU's serving electrical substations, 27 SZ VAV AHU's serving concourse and baggage handling/screening, 37 VAV AHU's serving baggage claim, airline operations TSA screening, ticketing, and remaining public spaces.
- SZ VAV and VAV units include demand controlled ventilation by carbon monoxide / carbon dioxide monitoring.
- Served by a new central plant consisting of (5) 2,200 ton centrifugal chillers and (6) 21,000 MBH boilers. An additional boiler and chiller of equal capacity are provided as standby.

