

Construction Management at Ronald Reagan Washington National and Washington Dulles International Airports

Robert Orkin Quality Assurance Manager Parsons Management Consultants

- METROPOLITAN WASHINGTON AIRPORTS AUTHORITY





Parsons Management Consultants – A Joint Venture

Parsons Transportation Group Inc. PB Americas, Inc. DMJM Aviation Delon Hampton and Associates, Chartered

PMC on the Project Since 1988

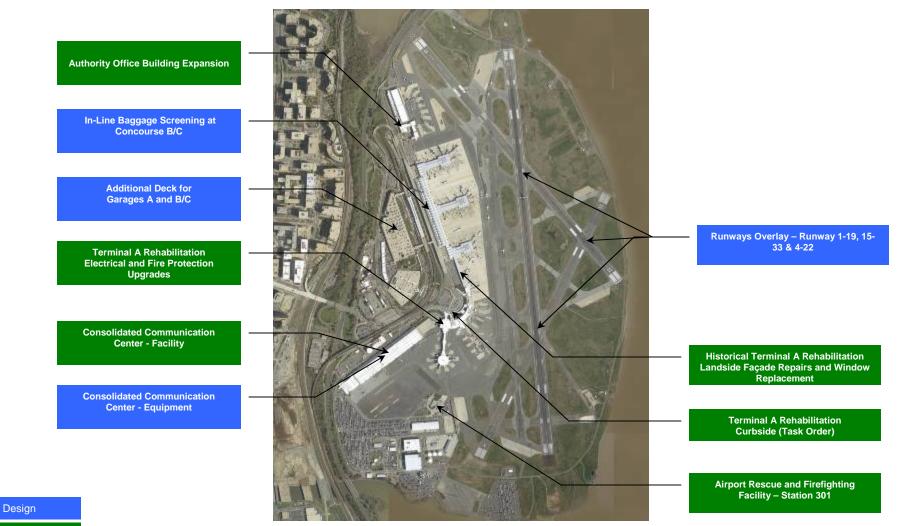
Current Contract Awarded 2004 (5 Years plus 3 Year Option)

Current 300 Staff from the Prime JV and other companies

Ronald Reagan Washington National Airport (DCA)



DCA – Major Design and Construction Projects



Construction

TERMINAL A LANDSIDE FAÇADE REPAIR AND WINDOW REPLACEMENT

Designer: Contractor: Start Date: Substantial Completion: Shalom Baranes Associates, PC Grunley Construction March 2007 August 2008

DESCRIPTION:

The project involves upgrade and rehabilitation of the 1941 historical Terminal A exterior. The project includes the concrete and rebar repair, re-alkalization, recoating of all landside concrete surfaces, and select demolition. The project also includes replacement and renovation of the landside and airside windows in the 1941 historical terminal.

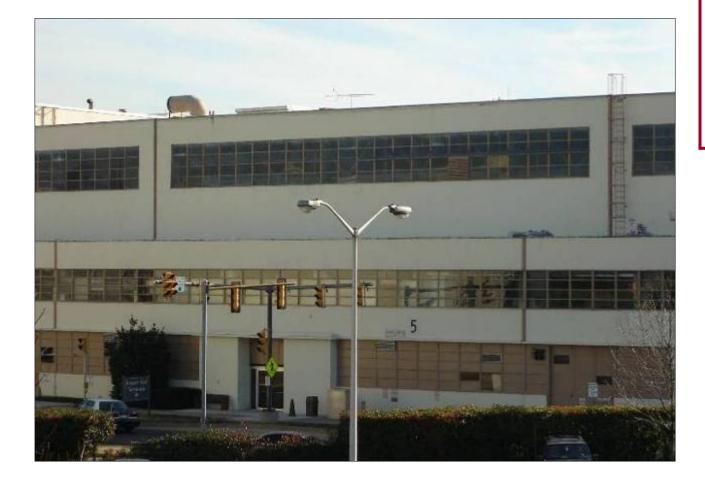






TERMINAL A CONSOLIDATED COMMUNICATIONS CENTER

Designer: Contractor: Start Date: Substantial Completion: HSMM Vista Contracting January 2007 September 2007



DESCRIPTION:

The project consists of interior office, operations and related space construction to support the future Consolidated Communications Center in Hanger 5. The work is primarily on the second and third floors and includes building security, ADA, and roof and window improvements. There is a future construction contract that will provide and install the communications and dispatch equipment.

AIRPORT RESCUE AND FIREFIGHTING FACILITY (ARFF), STATION 301

Designer: Contractor: Start Date: Substantial Completion: Hughes Group Architects TGM Construction Corp. May 2007 June 2008



DESCRIPTION:

The project is for the construction of a 22,800 square foot, single story Airport Rescue and Firefighting Facility (ARFF). The facility includes office administration space, five apparatus storage bays, mechanical storage unit, dormitory living space, locker rooms and kitchen and general support spaces.



AUTHORITY OFFICE BUILDING EXPANSION

Designer: Contractor: Start Date: Substantial Completion: Pierce Goodwin Alexander and Linville Vista Contracting July 2007 June 2008

DESCRIPTION:

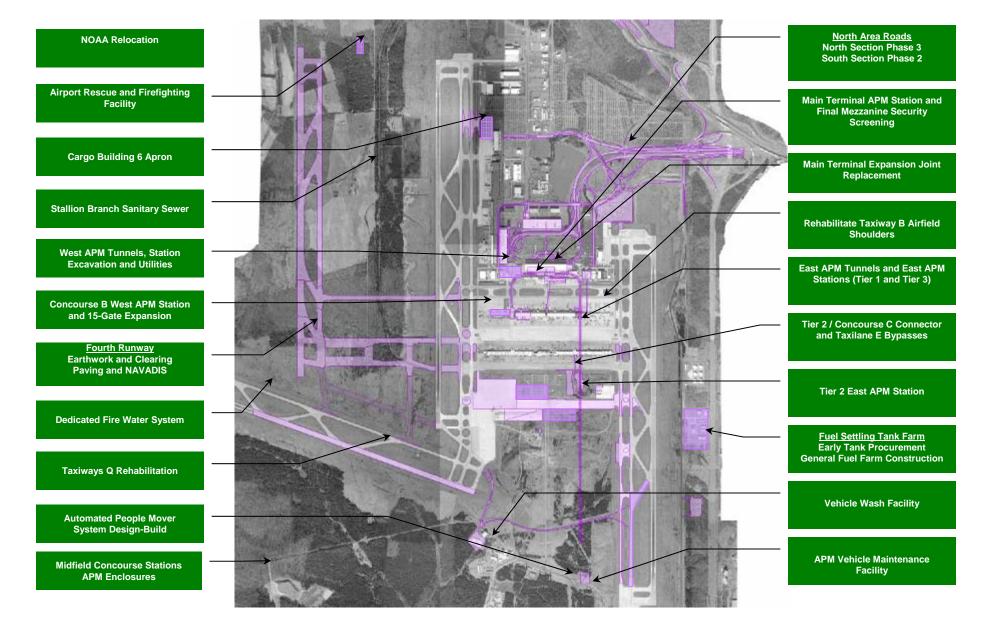
The project is for the construction of an 8,900 square foot, two level expansions to the existing Authority Office Building (AOB). The project also includes a 90 foot elevated walkway which will connect the AOB to Hanger No. 11.



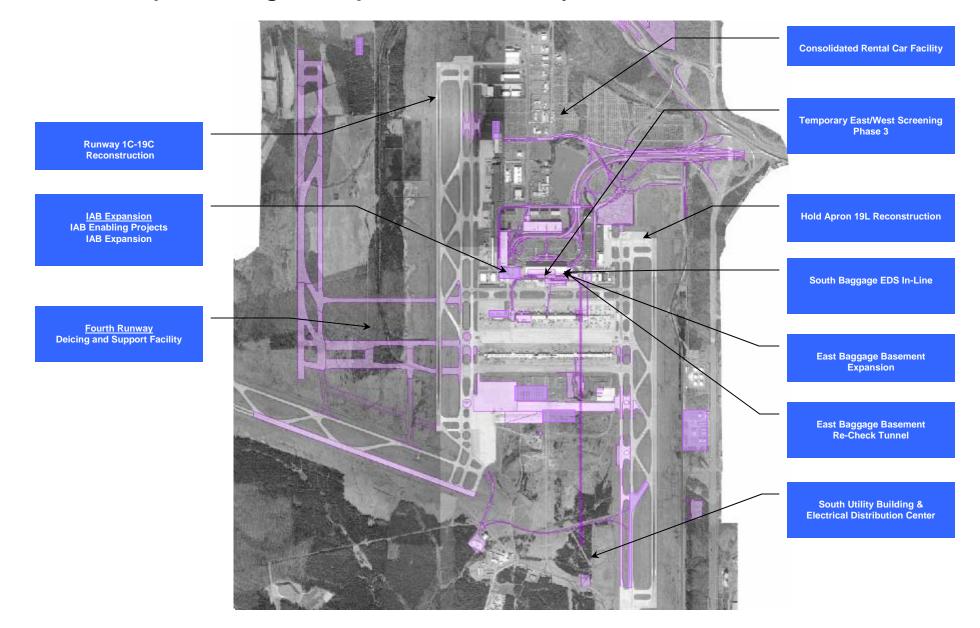
Washington Dulles International Airport (IAD)



IAD - Major Construction Projects Underway



IAD - Major Design Projects Underway



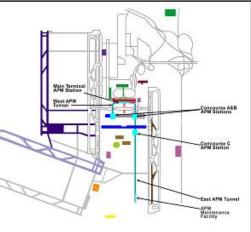
AUTOMATED PEOPLE MOVER SYSTEM

Design/Build: Start Date: Substantial Completion: Sumitomo Corporation of America March 2003 2009



DESCRIPTION:

The Automated People Mover (APM) System will replace most of the current Mobile Lounge system that is used to transport passengers between the Main Terminal and the Midfield Concourses. The train will operate on an underground dual track system. The design-build project includes design, manufacture, and installation of guideway, power, and automatic train control systems. The contractor will also provide 29 vehicles.



AUTOMATED PEOPLE MOVER SYSTEM

Delivery of Train Cars 1-4



First four AeroTrain cars and Maintenance/Recovery Vehicle left Mitsubishi factory in Japan on April 8, 2007 and were loaded onto a ship for transport to the United States.

Arrived in Philadelphia, Pennsylvania, May 22, 2007. Trucked to Baltimore, Maryland, and held over in respect for the Memorial Day weekend/Washington region holiday traffic.

Arrived at Dulles on May 30, 2007. Carefully removed from trucks and placed into the AeroTrain Vehicle Maintenance Facility in preparation for system testing in the near future.



Vehicles 13 and 14 on Test Track



Vehicle #23 Outfitting



AUTOMATED PEOPLE MOVER SYSTEM

Vehicle Maintenance Facility



AUTOMATED PEOPLE MOVER SYSTEM

Vehicles 1, 2, 3, and 4 at Light Maintenance Bay



Designer: Contractor: Start Date: Substantial Completion: HNTB Atkinson/Clark/Shea October 2004 September 2008

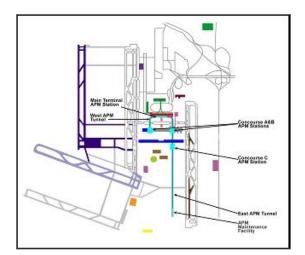






DESCRIPTION:

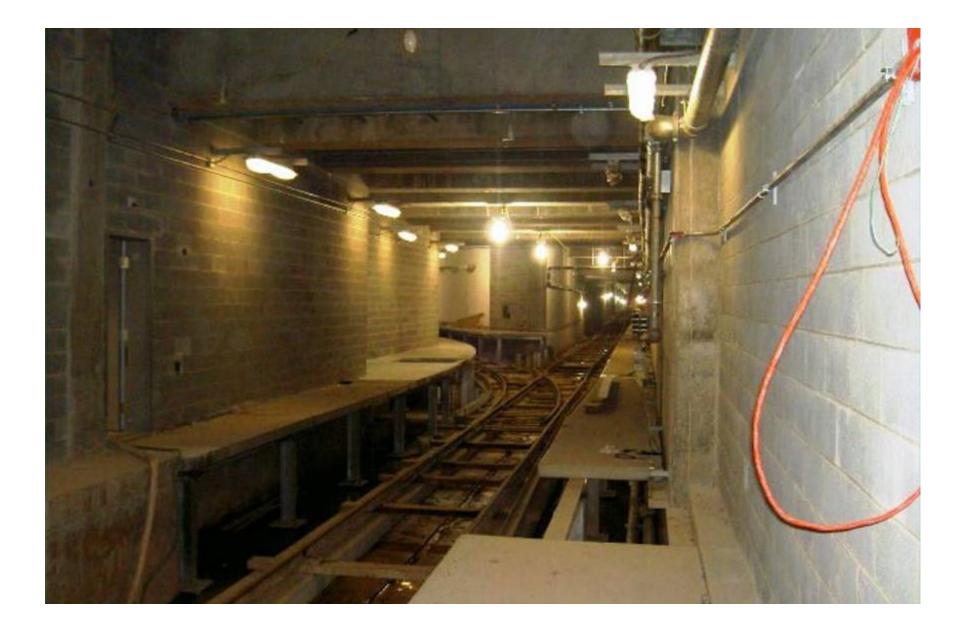
This project consists of the east leg of the APM tunnels from the Vehicle Maintenance Facility north to the Main Terminal. The project scope also includes the Concourse B East APM Station and a station shell at the future Tier 3 East APM location.



Tier 3 Station – Outer Trackway – Drywall Partitions – Looking South



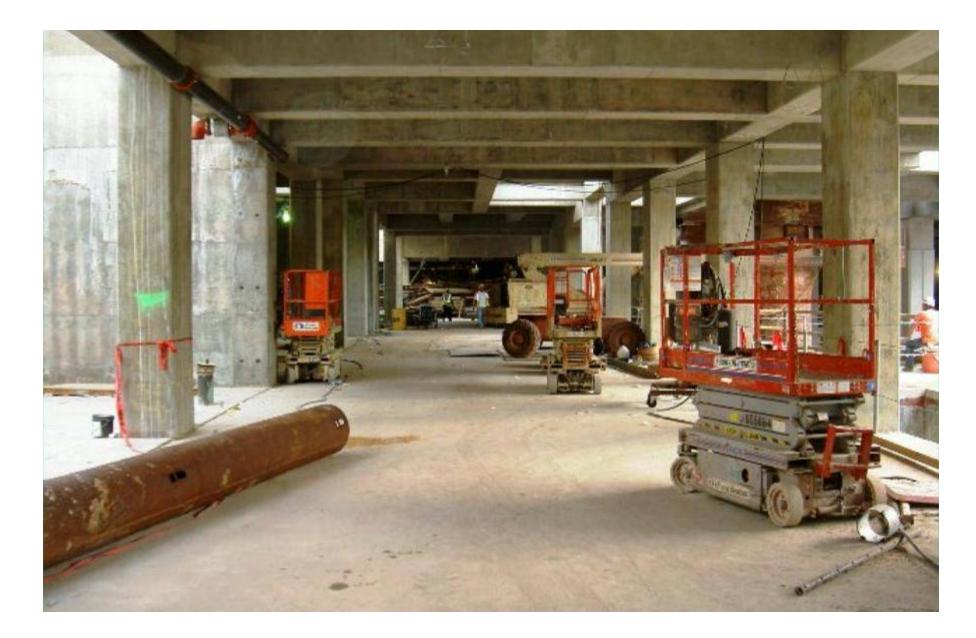
Tier 3 Station – Outer Trackway – View to North Crossover Area



Tier 1 Station West Side Apron Level – North End / Looking South



Tier 1 Station West Side Mezzanine Level – South End / Looking North

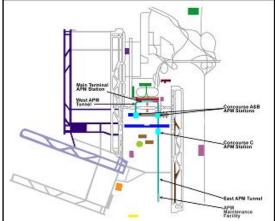


Tier 1 Station West Side Mezzanine Level – South End / Looking North



TIER 2/CONCOURSE C EAST APM STATION

Designer: Contractor: Start Date: Substantial Completion: Kohn Pederson Fox Assoc. Facchina Construction Company March 2005 April 2008



DESCRIPTION:

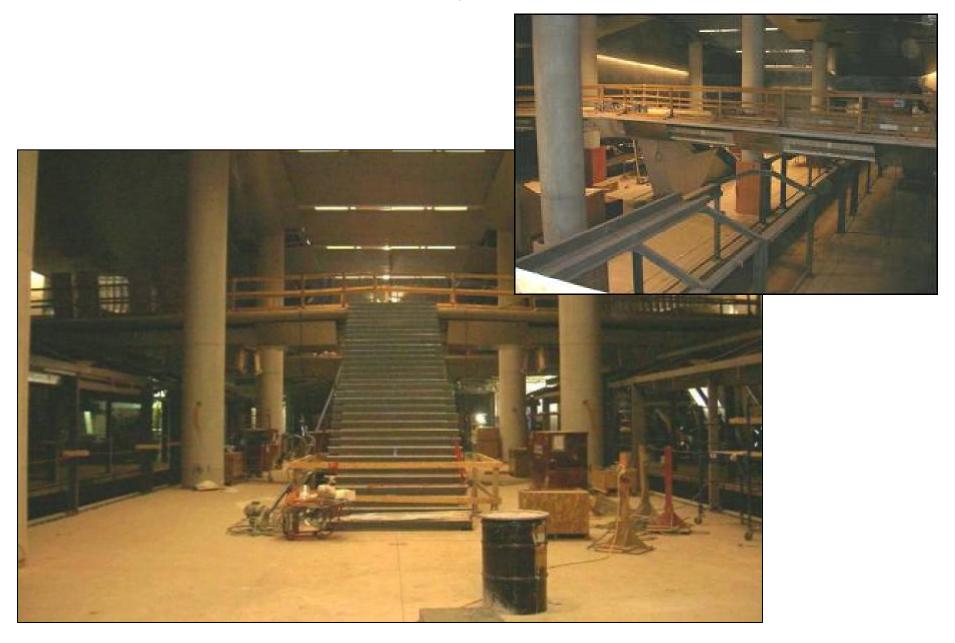
This project consists of a sidecenter-side platform, two guideway station. The station includes crossovers, cast in place concrete automated people movers tunnels, a temporary heating and cooling plant, electrical substation, high-end architectural finishes, apron, and site work.

The work also includes temporary taxilane by-passes between Taxilane E and Taxiway F for the future Concourse C Connector Tunnel.



TIER 2/CONCOURSE C EAST APM STATION

Architecture: View to Grand Stairway



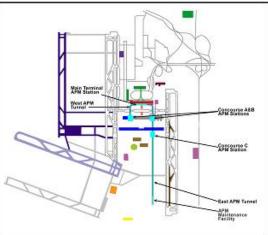
TIER 2/CONCOURSE C EAST APM STATION

Temporary Central Plant for Tier 2 APM Station



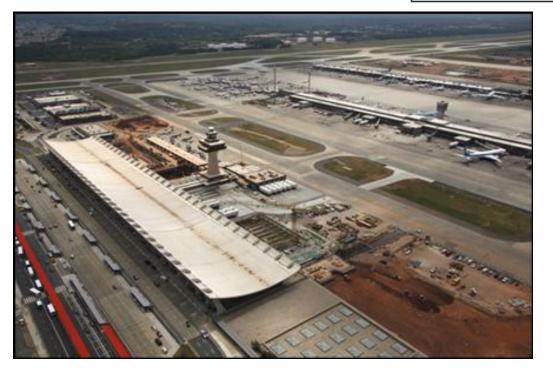
Designer: Contractor: Start Date: Substantial Completion: Skidmore, Owings and Merrill Turner Construction October 2002 July 2009





DESCRIPTION:

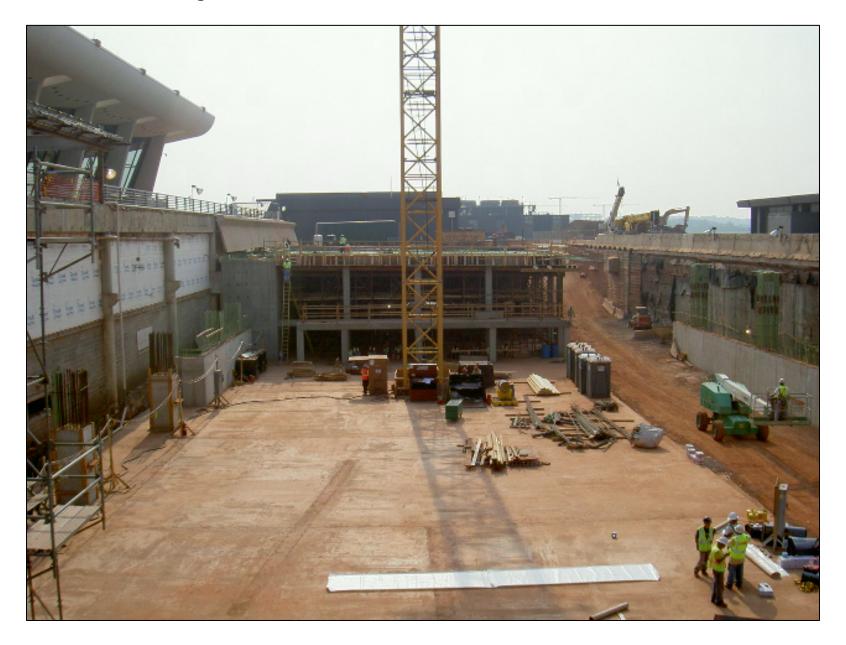
This project involves the construction of the new Main Terminal Automated People Mover (APM) Station, a security mezzanine, and a temporary mobile lounge dock and hold rooms. The project also includes both temporary and permanent security checkpoints in the Main Terminal.



Overview Looking Northwest from Column 030 – East Side



Overview Looking East from Column 13 – East Side



Demo East Hold Room – Looking Northwest – East Side



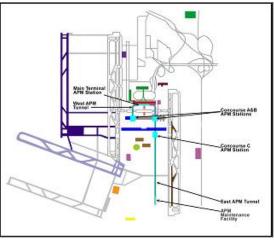
Overview Looking West Column 16-30 – West Side



Forming Center Platform Column 5-04 – West Side



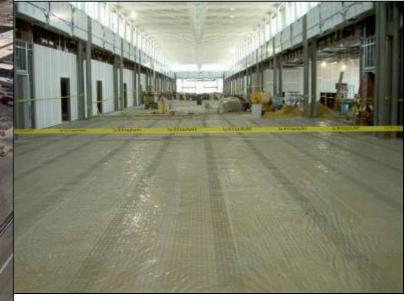
Designer: Contractor: Start Date: Substantial Completion: Hellmuth, Obata & Kassabaum, PC Balfour Beatty Construction September 2005 August 2008



DESCRIPTION:

The West 12-gate expansion includes construction of a concourse and supporting space for domestic flights, a 60,000 square foot basement with a vehicular access ramp and 11,000 square foot mezzanine club level. Site work includes water and sanitary lines, apron paving, and hydrant fueling work. The APM station includes below-grade concrete construction, steel superstructure, station fit out, final utility connections, tunnel ventilation shafts, and associated tunnel equipment rooms.





Concourse Level (East End), Overview, Preparing for Terrazzo Installation, Infill Area



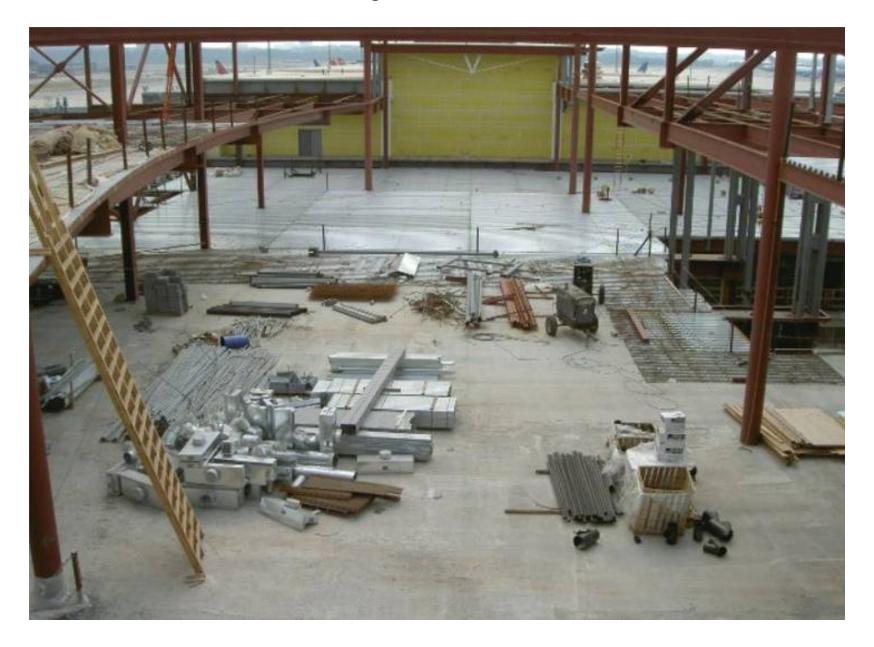
Overview, Platform & Mezzanine Level, Facing South, West APM Station



Track & Platform Level, Inner Track, Facing North, Escalator Deliveries, West APM Station



Overview, Connection with Existing Concourse B, West APM Station



FOURTH RUNWAY AND ASSOCIATED TAXIWAYS

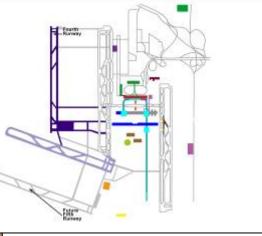
Designer: Contractor: Start Date:

Carter & Burgess, Inc. Lane Construction Corporation July 2006

DESCRIPTION:

The project is for the paving and NAVAIDS construction of the Fourth Runway. The project consists of installation of erosion and sedimentation control materials, airfield/roadway pavements, utilities, marking/signage, permanent AOA fence, NAVAIDS, and biological treatment units.





FOURTH RUNWAY AND ASSOCIATED TAXIWAYS, PAVING, AND NAVAIDS PACKAGE



FOURTH RUNWAY AND ASSOCIATED TAXIWAYS, PAVING, AND NAVAIDS PACKAGE





NORTH AREA ROADWAY IMPROVEMENTS – SOUTH SECTION, PHASE 2

Designer: Contractor: Start Date: Substantial Completion: Johnson-Mirmiran & Thompson Lane Construction Corporation March 2006 April 2008

DESCRIPTION:

The project improves the eastbound Dulles Airport Access Highway (DAAH) lanes from Saarinen Circle to Route 28 to meet the traffic forecasts for 25 million annual passengers. The project includes widening the east-bound access highway, improving collector roads and new ramp, and adding a new intersection at Aviation and Wind Sock Drive.



NORTH AREA ROADWAY IMPROVEMENTS – NORTH SECTION PHASE 3

Designer: Contractor: Start Date: Substantial Completion: Johnson, Mirmiran & Thompson Facchina Construction August 2006 August 2008

DESCRIPTION:

The project consists performing all roadway improvements including widening the inbound Access Highway to meet the existing three lane section near the Aviation Drive bridge, Ramp Q road work, and adding bridges and road connections to the north and south ends of the project.



NORTH AREA ROADWAY IMPROVEMENTS – SOUTH SECTION, PHASE 2

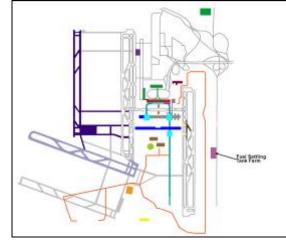


FUEL SETTLING TANK FARM

May 2006

September 2007

Designer: Contractor: Start Date: Substantial Completion: Burns & McDonnell Engineering Co., Inc. Grunley-Walsh, LLC



DESCRIPTION:

This project is for the construction of a delivery facility, fuel sampling building, and electrical controls building. The contract also includes the installation of a foam fire protection system, transfer pump and filtration system, and transfer piping to the existing hydrant fueling system tank farm.







PARSONS MANAGEMENT CONSULTANTS

a joint venture of

PARSONS TRANSPORTATION GROUP INC. D PB AMERICAS, INC. D DMJM AVIATION

DELON HAMPTON AND ASSOCIATES, CHARTERED