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

Robert Orkin
Quality Assurance Manager
Parsons Management Consultants
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

- Authority Office Building Expansion
- In-Line Baggage Screening at Concourse B/C
- Additional Deck for Garages A and B/C
- Terminal A Rehabilitation Electrical and Fire Protection Upgrades
- Consolidated Communication Center - Facility
- Consolidated Communication Center - Equipment
- Runways Overlay – Runway 1-19, 15-33 & 4-22
- Historical Terminal A Rehabilitation Landside Façade Repairs and Window Replacement
- Terminal A Rehabilitation Curbside (Task Order)
- Airport Rescue and Firefighting Facility – Station 301
TERMINAL A LANDSIDE FAÇADE REPAIR AND WINDOW REPLACEMENT

**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.

**Designer:** Shalom Baranes Associates, PC  
**Contractor:** Grunley Construction  
**Start Date:** March 2007  
**Substantial Completion:** August 2008
TERMINAL A CONSOLIDATED COMMUNICATIONS CENTER

Designer: HSMM
Contractor: Vista Contracting
Start Date: January 2007
Substantial Completion: 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: Hughes Group Architects
Contractor: TGM Construction Corp.
Start Date: May 2007
Substantial Completion: 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**

<table>
<thead>
<tr>
<th>Designer</th>
<th>Pierce Goodwin Alexander and Linville</th>
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<tbody>
<tr>
<td>Contractor</td>
<td>Vista Contracting</td>
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<tr>
<td>Start Date</td>
<td>July 2007</td>
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<td>Substantial Completion</td>
<td>June 2008</td>
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**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

- NOAA Relocation
- Airport Rescue and Firefighting Facility
- Cargo Building 6 Apron
- Stallion Branch Sanitary Sewer
- West APM Tunnels, Station Excavation and Utilities
- Concourse B West APM Station and 15-Gate Expansion
- Automated People Mover System Design-Build
- Midfield Concourse Stations APM Enclosures
- North Area Roads North Section Phase 3 South Section Phase 2
- Main Terminal APM Station and Final Mezzanine Security Screening
- Main Terminal Expansion Joint Replacement
- Rehabilitate Taxiway B Airfield Shoulders
- East APM Tunnels and East APM Stations (Tier 1 and Tier 3)
- Tier 2 / Concourse C Connector and Taxi Lane E Bypasses
- Tier 2 East APM Station
- Fuel Settling Tank Farm Early Tank Procurement General Fuel Farm Construction
- Vehicle Wash Facility
- APM Vehicle Maintenance Facility
- Main Terminal Expansion Joint Replacement
- Rehabilitate Taxiway B Airfield Shoulders
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- Tier 2 East APM Station
- Fuel Settling Tank Farm Early Tank Procurement General Fuel Farm Construction
- Vehicle Wash Facility
- APM Vehicle Maintenance Facility
IAD - Major Design Projects Underway

- Runway 1C-19C Reconstruction
- IAB Expansion
- IAB Enabling Projects
- IAB Expansion
- Consolidated Rental Car Facility
- Temporary East/West Screening Phase 3
- Hold Apron 19L Reconstruction
- South Baggage EDS In-Line
- East Baggage Basement Expansion
- East Baggage Basement Re-Check Tunnel
- South Utility Building & Electrical Distribution Center
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- East Baggage Basement Expansion
- East Baggage Basement Re-Check Tunnel
- South Utility Building & Electrical Distribution Center
AUTOMATED PEOPLE MOVER SYSTEM

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.

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


Vehicles 13 and 14 on Test Track
Vehicle #23 Outfitting
Vehicle Maintenance Facility
Vehicles 1, 2, 3, and 4 at Light Maintenance Bay
EAST APM TUNNELS AND STATION

Designer: HNTB
Contractor: Atkinson/Clark/Shea
Start Date: October 2004
Substantial Completion: 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
EAST APM TUNNELS AND STATION

Tier 1 Station West Side Apron Level – North End / Looking South
Tier 1 Station West Side Mezzanine Level – South End / Looking North
TIER 2/CONCOURSE C EAST APM STATION

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

**DESCRIPTION:**
This project consists of a side-center-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.
Architecture: View to Grand Stairway
Temporary Central Plant for Tier 2 APM Station
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
Forming Center Platform Column 5-04 – West Side
CONCOURSE B WEST EXPANSION AND WEST APM STATION

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.

Designer: Hellmuth, Obata & Kassabaum, PC
Contractor: Balfour Beatty Construction
Start Date: September 2005
Substantial Completion: August 2008
CONCOURSE B WEST EXPANSION AND WEST APM

Concourse Level (East End), Overview, Preparing for Terrazzo Installation, Infill Area
CONCOURSE B WEST EXPANSION AND WEST APM

Overview, Platform & Mezzanine Level, Facing South, West APM Station
CONCOURSE B WEST EXPANSION AND WEST APM

Track & Platform Level, Inner Track, Facing North, Escalator Deliveries, West APM Station
CONCOURSE B WEST EXPANSION AND WEST APM

Overview, Connection with Existing Concourse B, West APM Station
FOURTH RUNWAY AND ASSOCIATED TAXIWAYS

Designer: Carter & Burgess, Inc.
Contractor: Lane Construction Corporation
Start Date: 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
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.

Designer: Johnson-Mirmiran & Thompson
Contractor: Lane Construction Corporation
Start Date: March 2006
Substantial Completion: April 2008
The project consists of 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.
FUEL SETTLING TANK FARM

Designer: Burns & McDonnell Engineering Co., Inc.
Contractor: Grunley-Walsh, LLC
Start Date: May 2006
Substantial Completion: September 2007

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.
FUEL SETTLING TANK FARM
PARSONS MANAGEMENT CONSULTANTS

a joint venture of

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

DELon HAMPTON AND ASSOCIATES, CHARTERED