



ALLEGHENY COUNTY AIRPORT AUTHORITY

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PITTSBURGH INTERNATIONAL AIRPORT  
ALLEGHENY COUNTY AIRPORT

# Meet the TMP Primes

African American Chamber of Commerce

July 25 2019

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# Safety Moment

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TMP-<http://pittransformed.com/>



**PIT**TRANSFORMED  
TERMINAL MODERNIZATION PROGRAM



ALLEGHENY COUNTY  
AIRPORT AUTHORITY



# Terminal Modernization Program Overview

Bold plan to transform PIT to better serve travelers, reduce costs, meet changing industry needs, & advance the region.

**Terminal Project** - a new terminal that consolidates landside & airside operations.

**Multi-Modal Complex (MMC)** - a new ground transportation center, parking garage, parking lots, and access roadways.



# Prime Contractors

Jacobs - Program Management Team

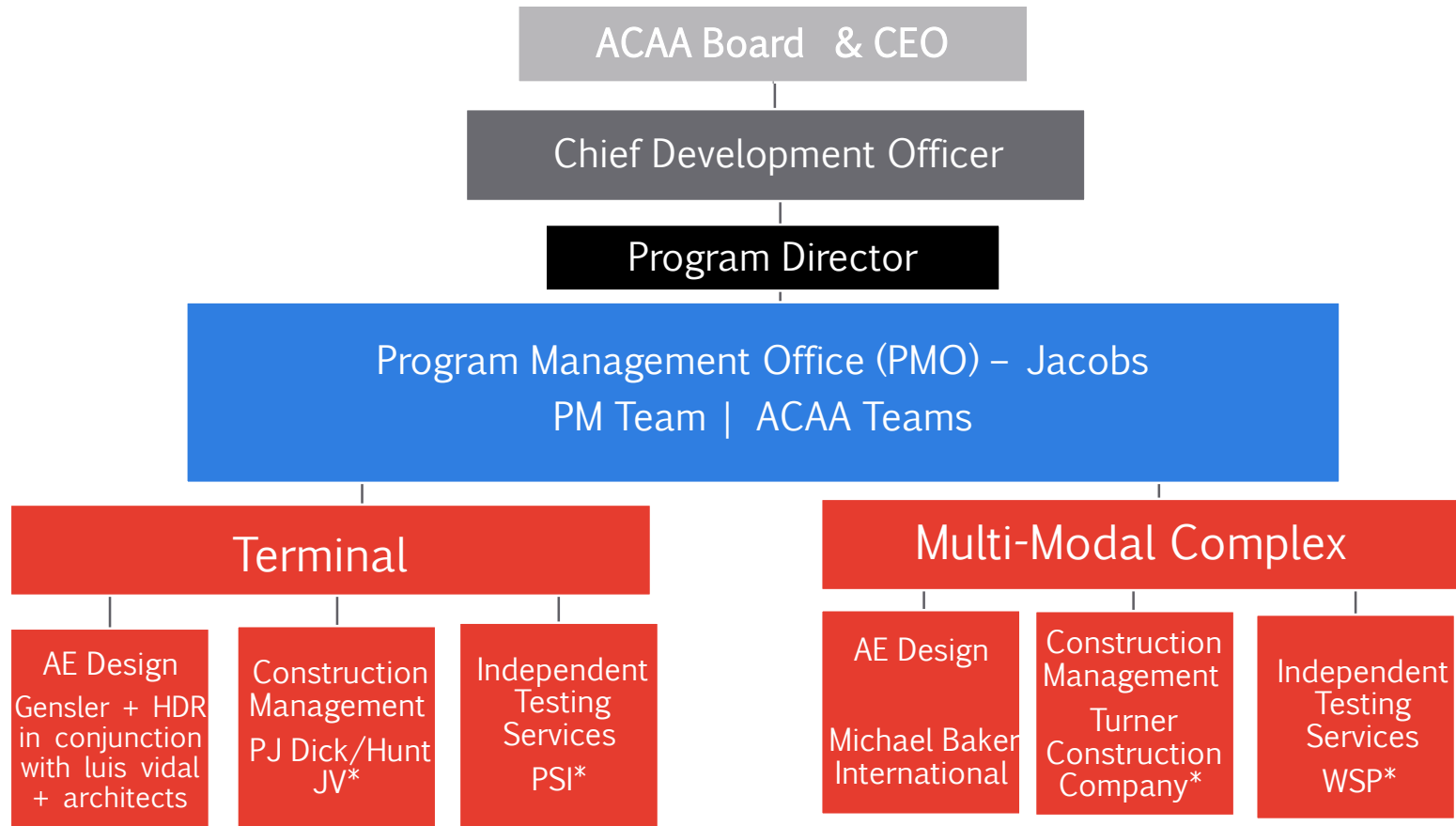
Gensler + HDR in association with luis vidal + architects - Terminal Architectural Design & Engineering Team

Michael Baker International - Multi-Modal Complex Architectural Design & Engineering Team

PJ Dick/Hunt JV - Terminal Construction Management Team

Turner Construction Company - Multi-Modal Complex Construction Management Team

# The TMP Team



\*pending contract award

# DBE's Currently Working on TMP

A & A Consultants	Arora Engineers	Connico	ED3 Consultants, Inc.	Graves Design Group	RIG Consulting, Inc.
A.G.E.S., Inc.	AWK Consulting Engineers, Inc.	Cosmos Technologies	evolveEA	Illustrate My Design	Santangelo & Lindsay
Abstract Group	Branch Pattern	CPM Consultant Services, LLC	Foresight Construction Services, LLC	Jacobsen Daniels	Sci-Tek Consultants, Inc.
Advantus Engineers	Bree & Associates, Inc.	Crawford Consulting Services	FTBA	Koryak	UpStudio Landscapes
Always Busy Consulting (ABC)	CMTS, Inc.	Davis Consulting Solutions	G Stephens, Inc.	Monaloh Basin Engineers	Virtuo
Architecture Innovations	Collective Efforts, LLC	Deborah Knox	GeoMechanics	Rhea Engineers & Consultants, Inc.	



# Our Vision

ACAA, through the Terminal Modernization Program, and our commitment to diversity, will design and implement a DBE Program that promotes the economic vitality of MWDBE's as well as diverse and inclusive employment opportunities in the greater Pittsburgh region in order to sustain the continued economic growth of MWDBE's in the region.



# How We Will Achieve Our Vision

- Consistently meeting and exceeding 14% DBE Goal
- Creating opportunities for new MWDBE businesses to grow and build capacity
- Using innovative and aggressive tactics to meet DBE Goal
- Pro-active outreach and community stakeholder engagement
- Effective DBE Compliance & Monitoring
- Metrics/Reporting



# Special DBE Contracting Strategies

- Right Sizing of Contract Bid Packages
- DBE Targeted Bid Packages
- Early identification of bid packages so that potential bidders can start preparing to pursue the bid packages
- Non-Mandatory Pre-Bid Meetings provide an opportunity for DBE firms to network and possibly team with primes on projects
- Workforce Goals-6.3%- Minority and 6.9%- Women



# Contact Info

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TERMINAL MODERNIZATION PROGRAM



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# Jacobs Program Management Team





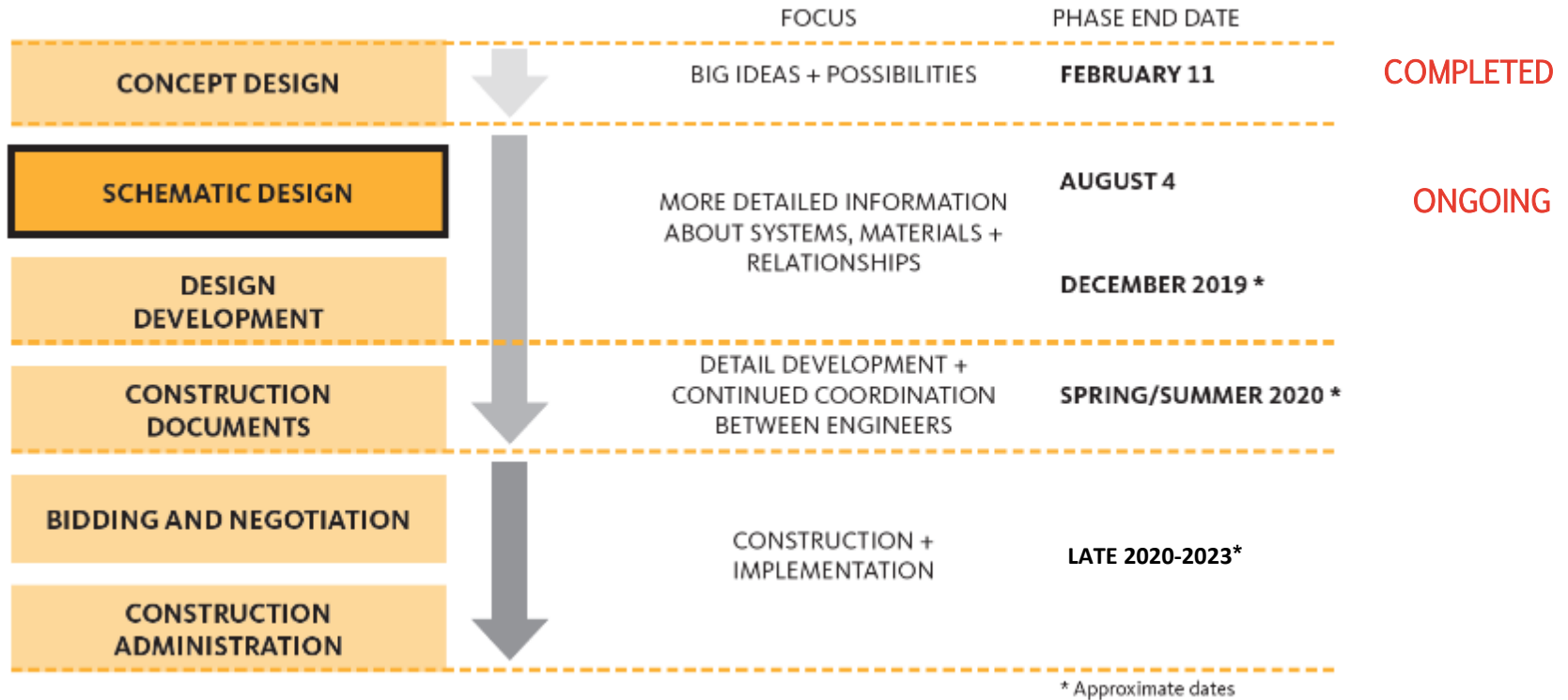
# Improved Airport Experience from Curb to Gate And New Economic Opportunity for the Region

- A new terminal that consolidates landside and airside operations
- New Multi-Modal Complex including a parking garage, ground transportation center and rental car operations
- Enhanced concessions and non-aeronautical revenue opportunities
- Enhanced security and amenities with a tech-forward approach
- Additional real estate development opportunities

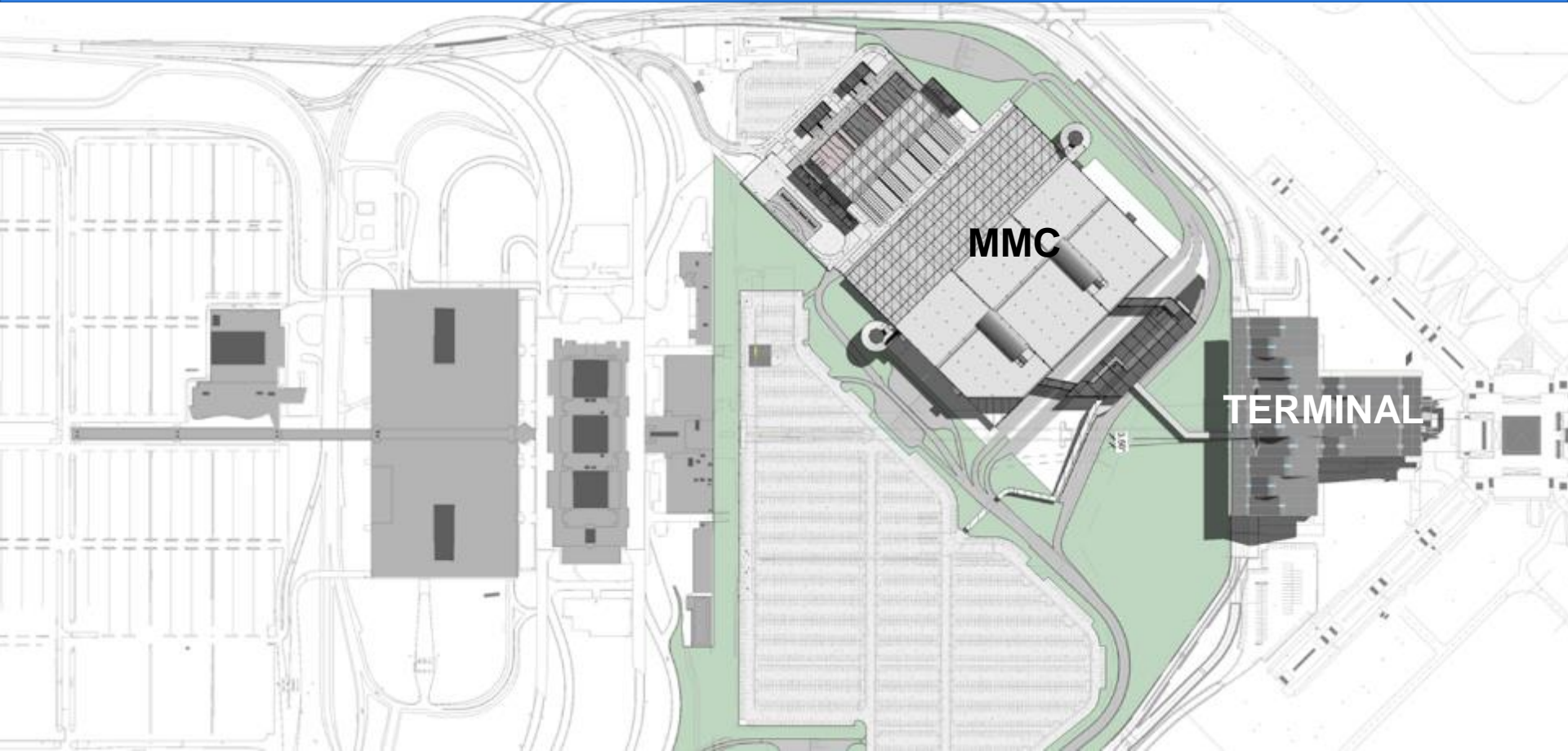




# TMP Schedule Overview



# Schematic Design – Updated Site Layout



**PIT**TRANSFORMED

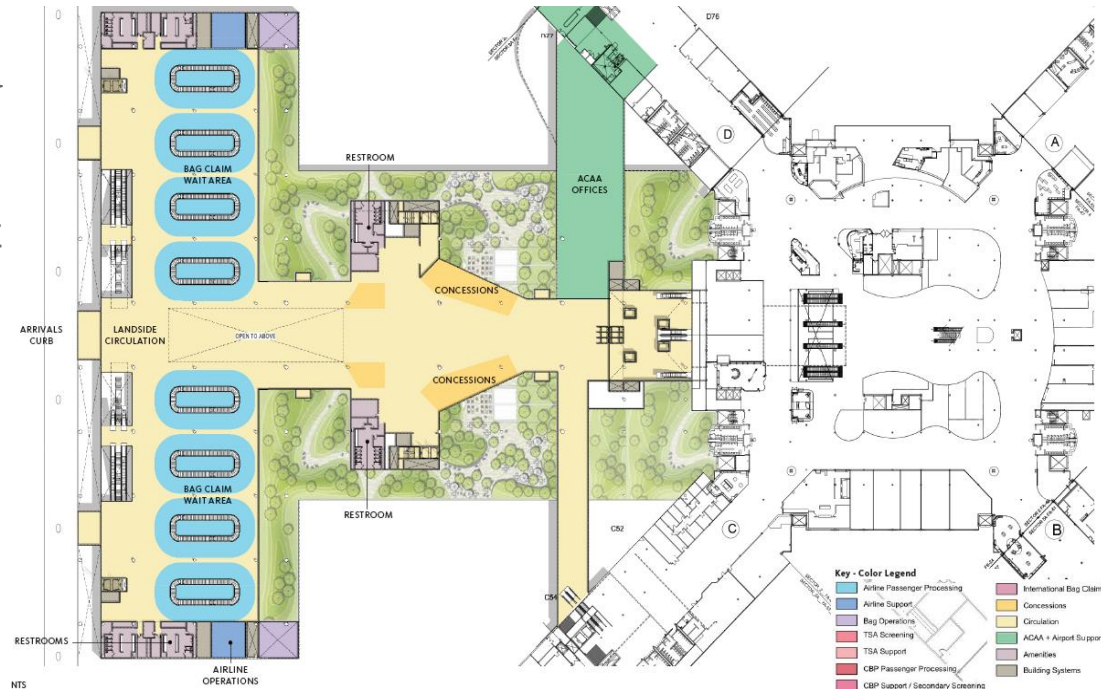
TERMINAL MODERNIZATION PROGRAM



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# New Terminal Layout – Arrivals

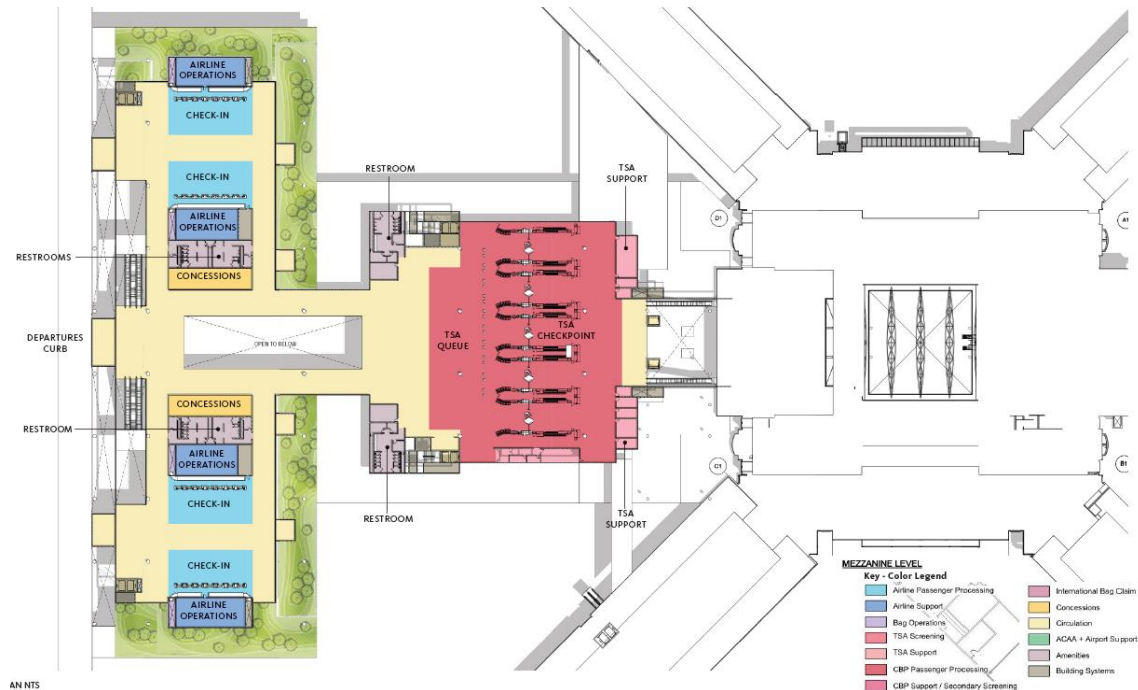
1. Passengers will deplane and depart the airside terminal into the expanded “Greeters” area (that will be situated just below the security lanes on the Departures level);
2. Enhanced baggage claim area that allows flexibility to extend or add additional baggage carousels;
3. Concessions;
4. Outdoor plaza for passengers to rest and refresh, if desired;
5. Open center core so passengers without checked baggage can move quickly to the arrivals curb / ground transportation



# New Terminal Layout – Departures

1. Ticketing;
2. Baggage Check-in;
3. Open center core, allowing passengers who don't need to check-in to proceed directly to Security;
4. Much-expanded, technologically advanced Security check-point, allowing for more efficient passenger screening;
5. Outside plaza;
6. Observation deck (open to the public);
7. Concessions

*Passenger walking and travel times will be greatly reduced.*





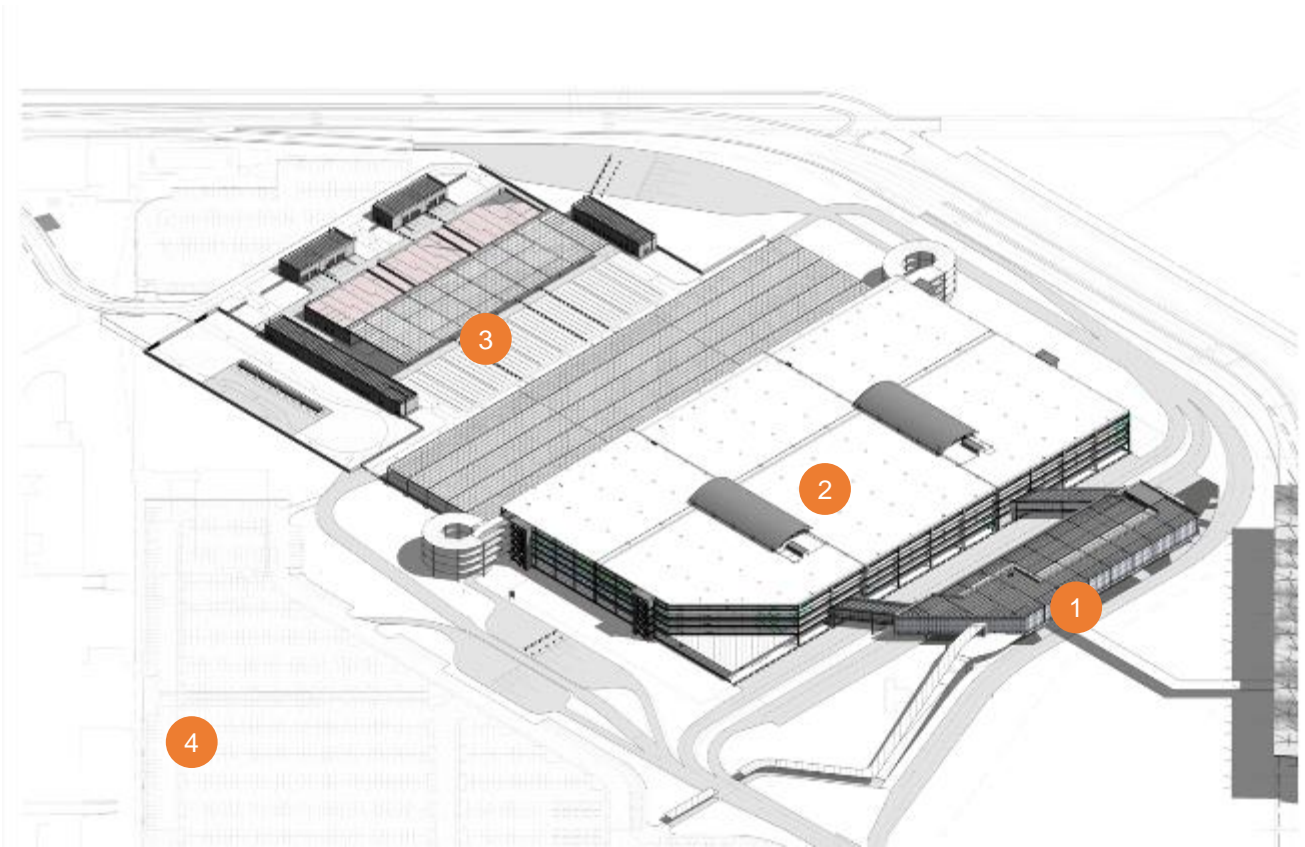
# Next Steps for Schematic Design - Terminal

- Terminal Plans (Apron, Departures and Arrivals Levels)
- Ticketing Hall Variations
- Concessions Locations and Strategy
- Terminal Roof and Façade Treatments
- Maintenance and Mechanical Systems
- Interior and Exterior Finishes, Signage, Lighting, Parking Lot Naming





# Primary Components of the MMC



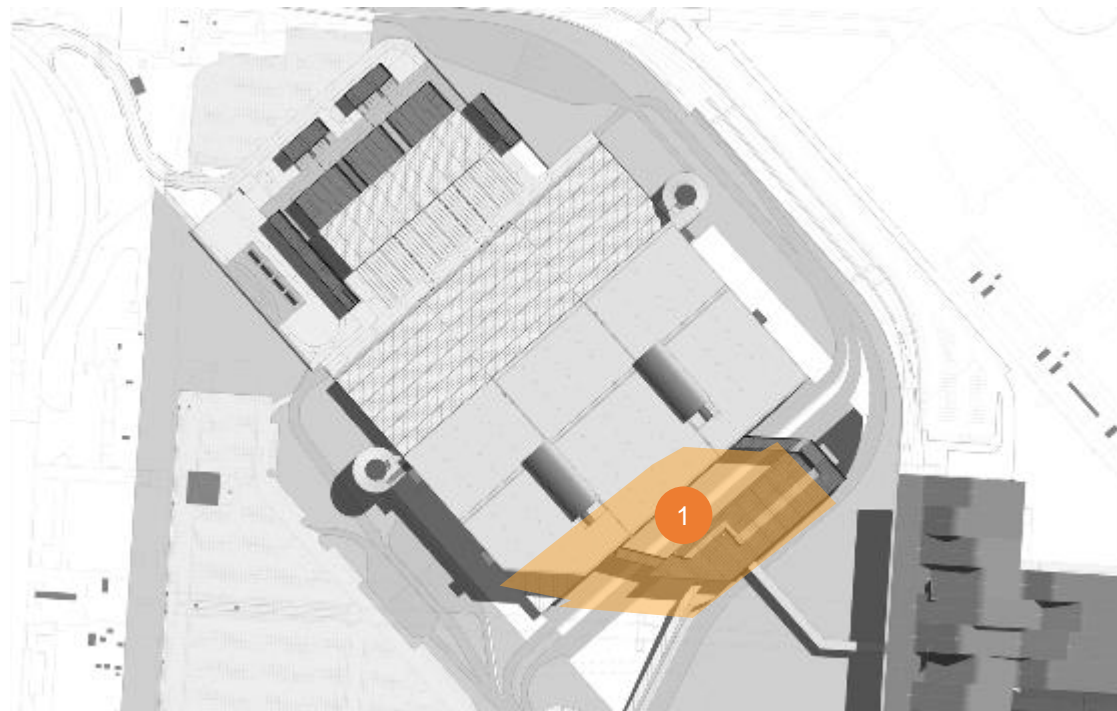
- 1 Ground Transportation Center (GTC)
- 2 Multi-Use Garage
- 3 Quick-Turnaround Area (QTA)
- 4 Surface Parking

# Ground Transportation Center

## 1 GROUND TRANSPORTATION CENTER (GTC) And CUSTOMER SERVICE BUILDING (CSB)

Including:

1. Pedestrian circulation (**shared lobby**), customer amenities and associated building support;
2. **Rental car customer service area** providing an area for rental car transactions;
3. Enclosed, conditioned vertical **circulation core** connecting the Level 2 lobby to the GTC curbside below;
4. Enclosed, conditioned **pedestrian bridges** connecting the GTC/CSB lobby to the Multi-Use Garage;
5. A terminal-quality interior space

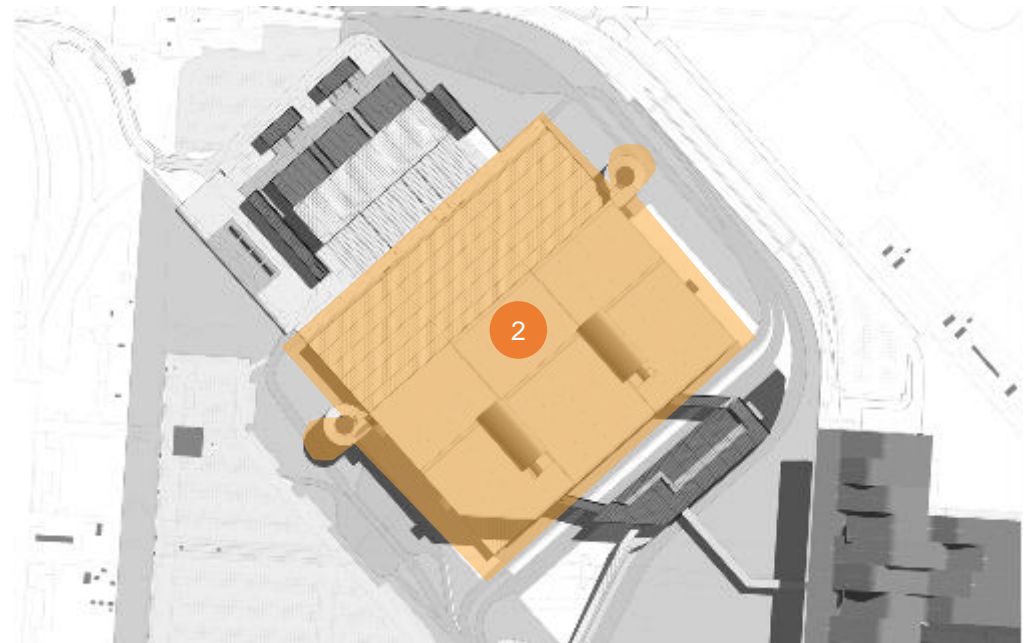


# Multi-Use Garage

## 2 MULTI-USE GARAGE

Including:

1. A Ready/Return and vehicle Staging area for rental car use (Level 1);
2. A Public Parking area (Levels 2-5) accommodating 3,500 cars;
3. Two enclosed, conditioned pedestrian vertical circulation cores serving all levels;

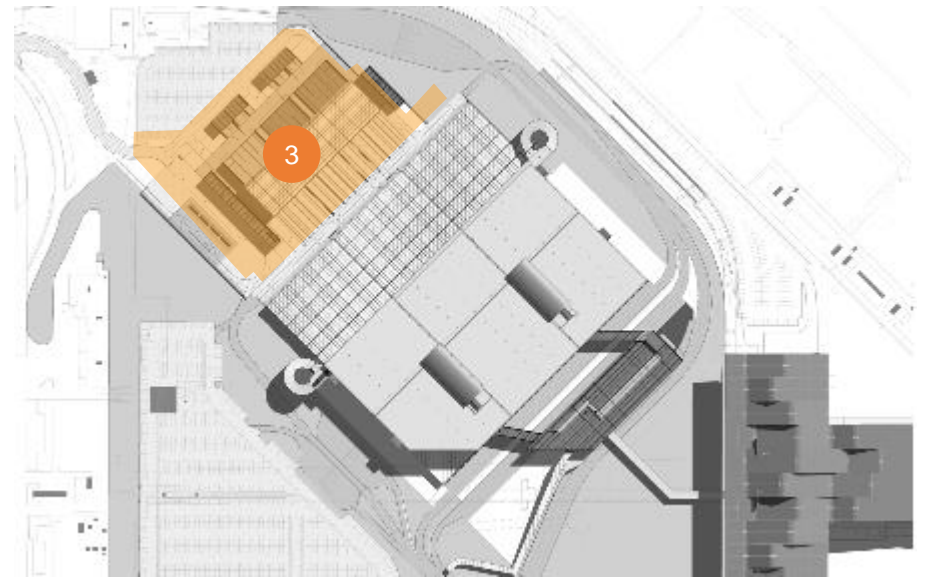


# Quick Turnaround Area

## 3 QUICK-TURNAROUND AREA (QTA)

Including:

1. An open-air, rental car vehicle **Stacking Area** adjacent to the Staging Area;
2. **Fuel and vacuum islands (36 positions)** for re-fueling and interior cleaning of rental car vehicles with canopy cover and upgraded lighting;
3. **Car Wash Bays (12)** and associated support for cleaning of vehicles;
4. Rental Car Company **administration shell-space** with utility infrastructure to be finished out by tenants;
5. **Facility Operator office**;
6. Associated support and utility spaces including electrical, IT and trash;
7. Adjacent service yard with fuel drop area;
8. **Maintenance buildings** with 8 bays

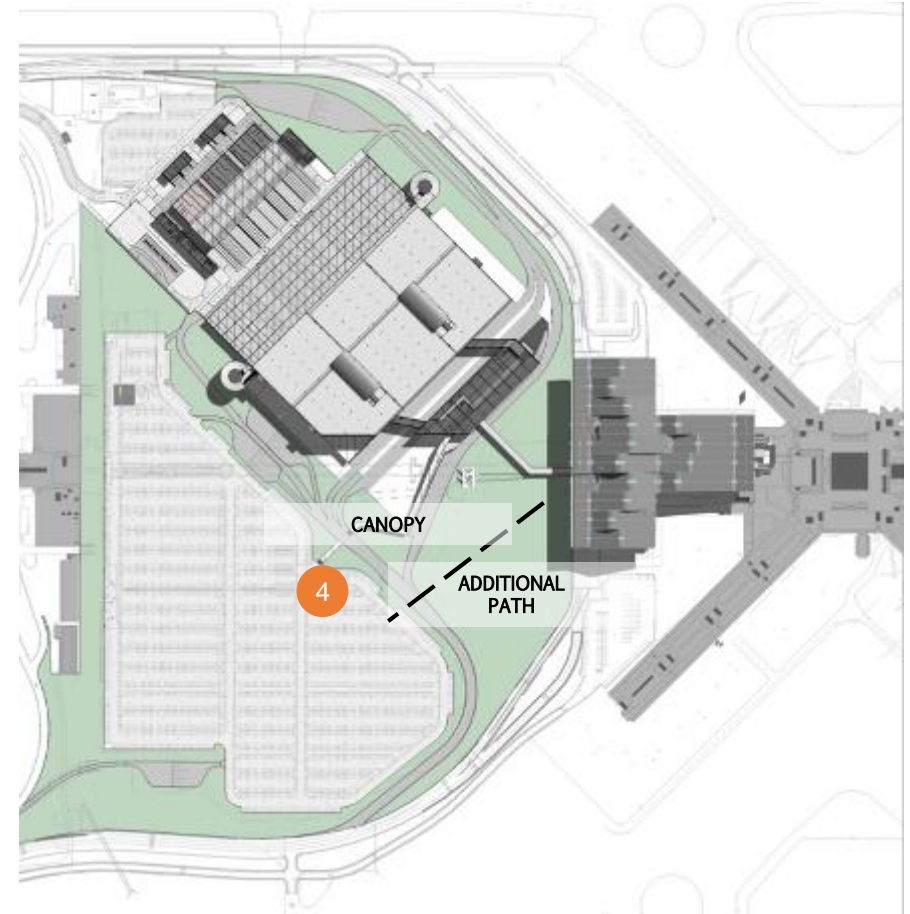


# Pedestrian Bridge Connects to Surface Parking

## 4 PEDESTRIAN BRIDGE CONNECTION TO SURFACE PARKING

Including:

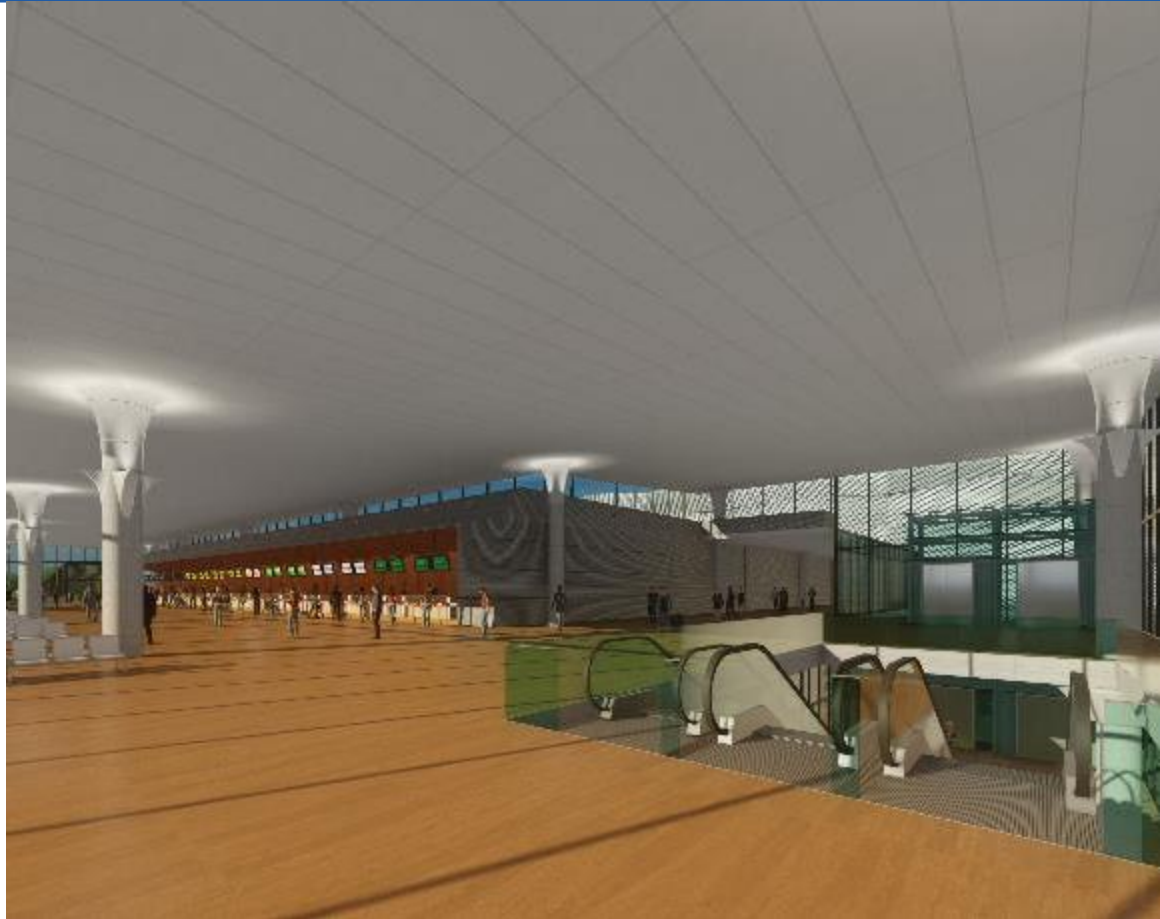
1. Open-air, canopy-covered entry at the surface parking lot;
2. Open-air, canopy-covered, gently sloped sidewalk connection under the entry roads and up to the southwest corner of the CSB/GTC building with a vestibule connection at Level 2;
3. Concrete sidewalk with translucent canopy on metal structural system;
4. Direct landscape connection to the terminal connection bridge is available on-grade





# Next Steps for Schematic Design - MMC

- New Name! Multi-Modal Complex
- Layout of Facility, Connection from Terminal, Configuration of Roads/Curb, Parking Lots
- Access for Rental Car Services, Ingress/Egress, Setup Options
- Evaluating Potential Event Space, Art Integration

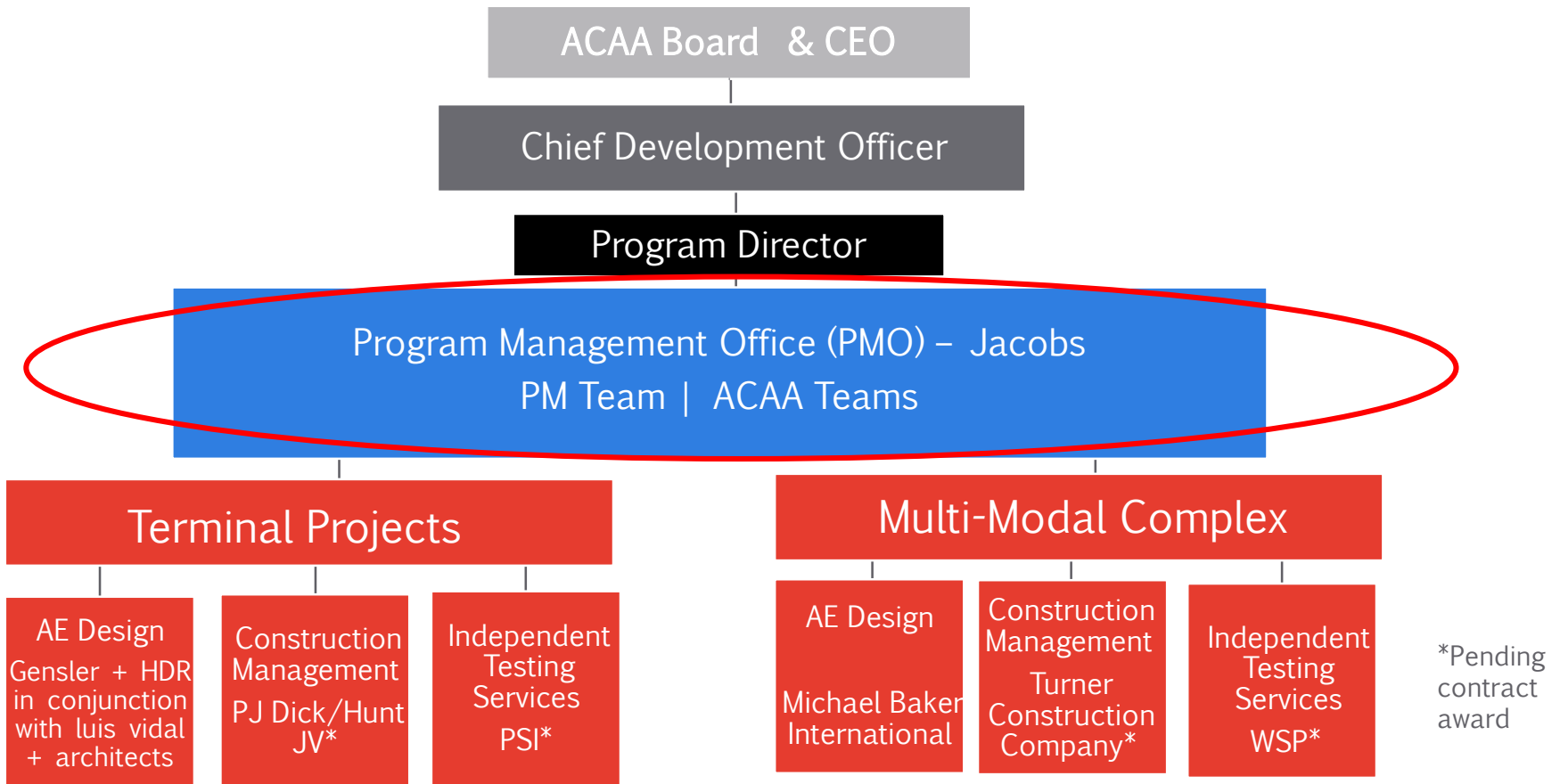


# TMP Timeline

- Schematic Design Review Period (July-August 2019)
- Early Works/Site Preparation Bid Packages (June 2019 -January 2020)
- New AOA Signed (Oct/Nov 2019)
- Securing Bond Financing (Late 2019)
- Construction (2020-2023)
- Grand Opening (2023)



# Jacobs Role for the TMP Team



# Jacobs Project Management Company – PM Team

- Ranked #1 for 2019 in Aviation by ENR and #1 World's Most Admired Companies 2019 by Fortune Magazine
- Successfully delivered 20 major airport programs, totaling \$40B in past 20 years
- 74,000 Employees / 400 locations, including Pittsburgh / 40+ countries
- Aviation Management Projects:

Abu Dhabi International Airport (AUH)	Los Angeles International Airport (LAX)
Changi International Airport (SIN)	Melbourne International Airport (MEL)
Chicago O'Hare Modernization Program (ORD)	Mexico City International Airport (NAICM)
Dallas Fort Worth International Airport (DFW)	Mumbai International Airport (BOM)
Hartsfield – Jackson Atlanta International (ATL)	Philadelphia International Airport (PHL)
La Guardia International Airport (LGA)	Tampa International Airport (TPA)



# Jacobs Sub-Consultants

- Always Busy Consulting (ABC)\*
- Accenture
- CDM
- Connico\*
- Davis Consulting Solutions\*
- EDR Group
- KORYAK\*
- Rhea Engineers & Consultants, Inc.\*
- Ricondo & Associates, Inc.
- Ross & Baruzzini
- Sheesley & Associates, LLC.\*
- Studdiford Technology Solutions, LLC.
- T E Kennedy, Inc.
- ThinkFast
- Virtuo\*
- Willow

Red indicates local firm/local presence

\*Indicates certified DBE in PA

# Jacobs Project Management Company

## Scope of Work

Contract Services over the course of the program may include, but are not limited to, the provision of:

- Program management and project support services;
- DBE program development and execution;
- Program governance establishment and utilization;
- Development and implementation of program/project management plans;
- Cost, schedule and quality management and analysis;
- Document control;
- Bid packaging and award of contracts;
- Configuration control - change management;
- Invoice review and management;
- Airport operations liaison;
- Support for public outreach, marketing and communications activities;
- Environmental and Sustainability Assessment,
- Design, BIM, GIS and Asset Management;
- ORAT Initiation; and Master System Integration and IT Support
- Administrative and management oversight of work by other consultants and contractors.

Gensler + HDR in association  
with luis vidal + architects  
A/E Team - Terminal



# Terminal A/E Partner – Gensler + HDR in association with luis vidal + architects

Joint Venture between Gensler & Associates (architects) and HDR (engineering) with luis vidal + architects as a sub-consultant

- Gensler has offices in 46 cities around the world including Pennsylvania and has provided experience-focused, award winning responsible design on all of its projects. Gensler wide portfolio of designs include the 32 story Tower at PNC Plaza in Pittsburgh the Incheon International Airport in South Korea and the Jackson Hole Airport which is noted for its efficacy and regionally-inspired ambiance and was awarded the AIA Institute Honor Award for Architecture.
- HDR with 10K employees and 200 offices worldwide is consistently ranked among the top firms by Engineering News-Record, World Architecture and Healthcare Design. With projects that range from the modernization of the Honolulu International Airport to the local Greenfield Bridge replacement project, HDR is also noted for innovations in green building design and sustainability.
- luis vidal + architects has completed terminal projects for Heathrow (Terminal 2), Madrid-Barajas, and others, bringing another level of international experience to the team that will give Pittsburgh the best opportunity to once again have a terminal at the forefront of aviation.



# Gensler + HDR Sub-Consultants

- American Geotechnical & Environmental Services (A.G.E.S.), Inc.\*
- Architectural Innovations\*
- BNP Associates, Inc.
- Burns Engineering, Inc.
- BuroHappold
- Cerami
- Crawford Consulting Services, Inc.\*
- ED3 Consultants, Inc.\*
- Faithful+Gould
- Fisher Marantz Stone (FMS)
- Illustrate My Design\*
- luis vidal + associates
- Larson Design Group
- Monaloh Basin Engineers\*
- Monmade
- Office of James Burnett/ (OJB) Landscape Architect
- Navarro & Wright Consulting Engineers, Inc.
- Renee Piechocki
- Santangelo & Lindsay\*
- Sci-Tek Consultants, Inc.\*
- Simpson, Gumpertz, Heger (SGH), Inc.
- Thornton Tomasetti
- UpStudio Landscapes\*
- Wade Trim

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# Gensler + HDR Scope of Work

Full Architectural/Engineering Design and Construction Phase services includes the following TMP components:

- New landside terminal
- Renovation of the existing airside terminal
- Roadways
- Wayfinding
- Site design, including oversight of landscape design
- Modification to the Central Utility Plant
- Infrastructure design including roadways, bridges, and various surface lots
- Demolition of infrastructure
- Decommissioning of the existing Automated People Mover
- Others to be identified

Michael Baker Int'l  
A/E Team – Multi-Modal Complex



# MMC A/E Partner – Michael Baker International

- Michael Baker International is headquartered in Pittsburgh with 100 offices nationwide with over 3,000 employees
- Michael Baker retains approximately 800 resources locally
- The firm is a leading global provider of architectural/engineering and consulting services around the world focusing on delivering innovative and sustainable solutions for infrastructure and the environment
- Primary Practice areas include Transportation, Bridge, Aviation, Architecture, Civil & Environmental, Water, Planning, Federal and Construction Management
- Key past projects include new runway designs at O'Hare International, multiple major runway rehabilitations, Terminal 2 Parking Plaza at San Diego International Airport, Navy Gateway Inn and Suites in RI, Tappan Zee Bridge in NY, I-55 Reconstruction in MI, I-79 Missing Ramps in PA, East Liberty Transit Center, Jacksonville Regional Transportation Center in FL



# Michael Baker International Sub-Consultants

- Abstract Group\*
- A&A Consultants\*
- Advantus Engineers\*
- Always Busy Consulting (ABC)\*
- Arora Engineers\*
- Blymyer Engineers
- Collective Efforts\*
- Cosmos Technologies\*
- Deborah Knox\*
- Demattei Wong Architecture
- evolveEA\*
- GDMS
- Geomechanics\*
- Graves Design Group\*
- Monaloh Basin Engineers\*
- Red Swing Group
- Rhea Engineers and Consultants, Inc.\*
- RIB U.S. Cost
- Studioi with Lam Partners
- Waltry Design

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# Michael Baker International - Scope of Work

Multi-Modal Complex:  
Ground Transportation Center  
Multi-use Parking garage  
Rental Car Facilities

Parking Lots  
Cell Lot  
Commercial Holding Lots

PJ Dick/Hunt JV  
Construction Management  
Terminal Projects



# PJ Dick/Hunt - Construction Management Terminal Projects

Joint Venture between PJ Dick / Hunt to provide Construction Management Services to the Terminal Projects.

- The PJ Dick/Hunt team has extensive experience in the aviation market and are well known in the western Pennsylvania region. PJ Dick and the Hunt Construction Group have been working in fully-integrated teams for the past 25 years. Together they have successfully completed two significant projects, and individually, Hunt and PJ Dick have built signature projects locally, including many of Pittsburgh's iconic public gathering places. They have constructed over \$9 billion dollars of award-winning projects such as the PPG Paints Arena, Heinz Field, The David L. Lawrence Convention Center and 3 PNC Tower.
- The companies' aviation knowledge is extensive, with PJ Dick having provided general construction services for the PIT Midfield Terminal and Hunt overseeing a variety of projects at DIA, ATL, and FLL where work included new terminals, new baggage handling systems, interior modernizations and tenant fit-outs.



# PJ Dick/Hunt Sub-Consultants

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- Always Busy Consulting (ABC)\*
- AWK Consulting Engineers, Inc.\*
- Collective Efforts, LLC\*
- CPM Consultant Services, LLC\*
- Evolve Environment Architecture\*
- Foresight Construction Services, LLC\*
- G Stephens, Inc.\*
- Jacobsen Daniels\*
- RIG Consulting Inc.\*

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# PJ Dick/Hunt JV - Scope of Work

## Areas Involved

- New Landside Terminal Building
- Baggage Handling System
- Enabling Projects
- Terminal Roadways and Bridges
- Various Utilities Relocation
- Demolition Activities

## Well-Defined Scope

- Pre-Construction Services
- Cost Estimating / Benchmarking to Validate Milestone Budgets
- Create and Manage Construction Schedules
- Manage Bid Packaging and Processes
- Design Constructability Reviews
- Value Engineering
- Coordinate Construction Activities Between all Prime Contractors
- Multiple Construction Logistical Plans
- Maintaining Airport Operations
- Construction Phasing and Sequencing Across Multiple Primes
- Manage Third-Party Commissioning Services

# Turner Construction Construction Management Multi-Modal Complex



# Turner Construction - Construction Management Multi-Modal Complex

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- Turner Construction is a North America-based, international construction services company in diverse market segments, including aviation. With a staff of over 9,000 employees, the company completes \$12B of construction on 1,500 projects/year.
- Turner has completed many of the most complex and challenging aviation and transportation projects and has work underway at the country's major airports including DCA, DFW, JFK, LAX, MCO, OAK, SAN and SFO, among others.
- Turner has been ranked as both #1 Contractor and #1 Green Builder in the US several times by Engineering News-Record, as well as being named one of the Top 6 Best Commercial Building Contractors in the US by Advisory HQ in 2017.

# Turner Construction Company Potential Sub-Consultants

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- BranchPattern
- Bree & Associate, Inc.
- CMTS, Inc.\*
- Davis Consulting Solutions\*
- Foresight Construction Services, LLC\*
- FTBA\*
- G Stephens, Inc.\*
- Microdesk

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# Turner Construction Company Scope of Work

## Areas Involved

- Parking Garage
  - (Ingress and Egress)
- Close-In, Long-Term Surface Parking Lot
- Commercial Vehicle Surface Parking Lot
- Ground Transportation Center (GTC)
- Rental Car “Ready Return” Parking Lot
- Rental Car Quick-Turn-Around (QTA) Facility

## Well-Defined Scope

- Pre-Construction Services
- Cost Estimating / Benchmarking to Validate Milestone Budgets
- Create and Manage Construction Schedules
- Manage Bid Packaging and Processes
- Design Constructability Reviews
- Value Engineering
- Coordinate Construction Activities Between all Prime Contractors
- Multiple Construction Logistical Plans
- Maintaining Airport Operations
- Construction Phasing and Sequencing Across Multiple Primes
- Manage Third-Party Commissioning Services



Thank You

Thank you for your time and consideration.

