

MIAMI INTERNATIONAL AIRPORT

# SMP 2015-2050

KENDALL-TAMIAMI EXECUTIVE AIRPORT • OPA-LOCKA EXECUTIVE AIRPORT • HOMESTEAD GENERAL AVIATION AIRPORT • DADE-COLLIER TRAINING AND TRANSITION AIRPORT

## STRATEGIC AIRPORT MASTER PLANNING STUDY

FOR MIAMI-DADE COUNTY'S SYSTEM OF AIRPORTS

### Cargo Facilities Inventory



MIAMI-DADE AVIATION DEPARTMENT

EXISTING AIR CARGO TENANTS

EXISTING FACILITIES

AIRPORT CARGO AREAS

APRON AREA & AIRCRAFT PARKING

CARGO BUILDINGS

LANDSIDE FACILITIES

CONSTRAINTS AND ISSUES

PLANNED FACILITY IMPROVEMENTS (TO BE PROVIDED)

NEXT STEPS



# Existing Air Cargo Tenants

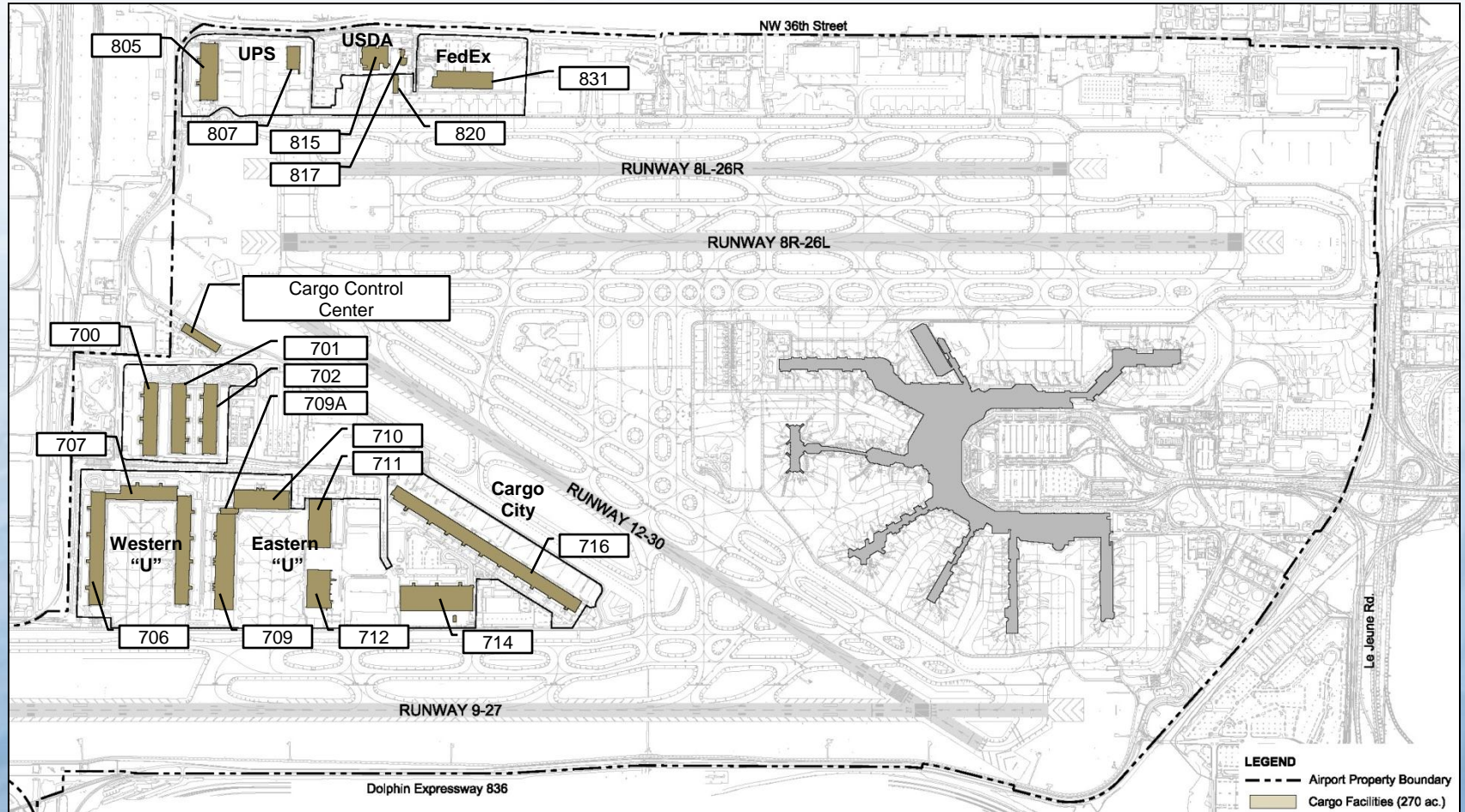
Integrators	All-Cargo	Belly	Combination
FedEx	Tampa Cargo <sup>4</sup>	American	LAN Group <sup>3</sup>
UPS	Arrow Cargo <sup>5</sup>	Continental	Cayman Airways
DHL <sup>2</sup>	Centurion	Delta	Surinam Airways
	Amerijet	US Airways	
	Cielos del Peru	Avianca <sup>4</sup>	
	Cargolux	Air France	
	Martinair <sup>6</sup>	Iberia	
	Cathay Pacific <sup>7</sup>	British Airways	
	China Airlines <sup>7</sup>	Lufthansa <sup>7</sup>	
	Korean Air <sup>7</sup>	TAM	

Sources: Webber Air Cargo, Inc., February 2010; MDAD Airline List, June 2010.

- Notes :
- 1/ ACMI Carriers not represented as they are leased by traditional carriers (ACMI Carriers include Atlas, Southern Air, Florida West, Air Transport International and Mountain Air Cargo).
  - 2/ DHL continues to operate as an integrator internationally but not in the U.S. domestic market.
  - 3/ LAN Group includes LAN Argentina, LAN Ecuador, LAN, LAN Cargo, LANCO and LAN Peru.
  - 4/ Tampa Cargo is now in an equity relationship with Avianca.
  - 5/ Arrow Air very recently ceased operations; it is not anticipated to impact the long-term forecasts.
  - 6/ Martinair is now in an equity relationship with Air France and KLM.
  - 7/ Carriers that operate both passenger and freighter flights in other U.S. markets.

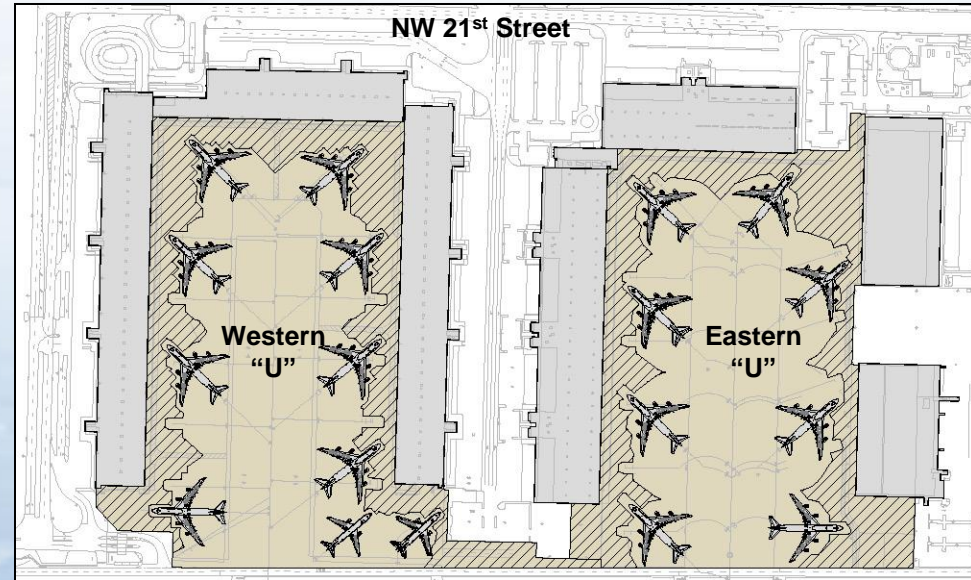


# Existing Facilities – Air Cargo Areas



# Existing Facilities – Apron Area

## WESTERN “U” & EASTERN “U”:



**LEGEND**

- Apron
- GSE Staging

Area Identifier	Apron Area (acres)	Largest Aircraft that can be Accommodated	GSE Area <sup>1/</sup> (sq. ft.)	Baseline Parking Plan <sup>2/</sup> (# of positions)	Alternate Parking Plan <sup>2/</sup> (# of positions)
Western “U”	26.9	B747	376,850	14 B767-300	8 B747-400 2 B767-300
Eastern “U”	25.1	B747	364,580	11 B 767-300 1 B747-400	8 B747-400

Notes:

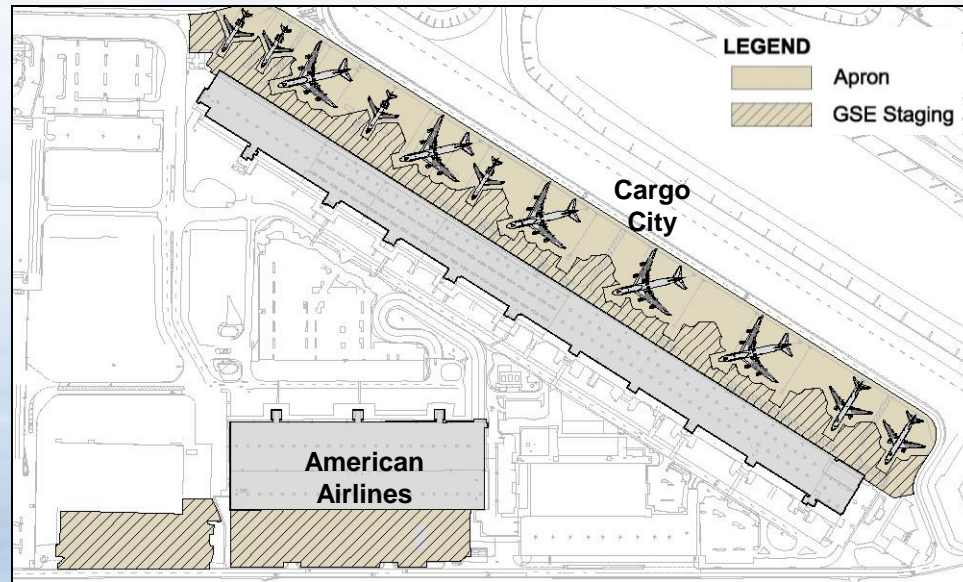
1/ Ground Support Equipment (GSE) rounded to the nearest 10<sup>th</sup>.

2/ The baseline parking plan is the maximum number of aircraft that can be accommodated on the apron area whereas the alternate parking plan highlights the largest aircraft type that can be accommodated.



# Existing Facilities – Apron Area

## AMERICAN AIRLINES & CARGO CITY:



Area Identifier	Apron Area (acres)	Largest Aircraft that can be Accommodated	GSE Area <sup>1/</sup> (sq. ft.)	Baseline Parking Plan <sup>2/</sup> (# of positions)	Alternate Parking Plan <sup>2/</sup> (# of positions)
American Airlines <sup>3/</sup>	N/A	N/A	218,030	N/A	N/A
Cargo City	15.7	B747	238,770	8 B727 8 B767	4 B727-200 2 B767 5 B747

Notes:

1/ Ground Support Equipment (GSE) rounded to the nearest 10<sup>th</sup>.

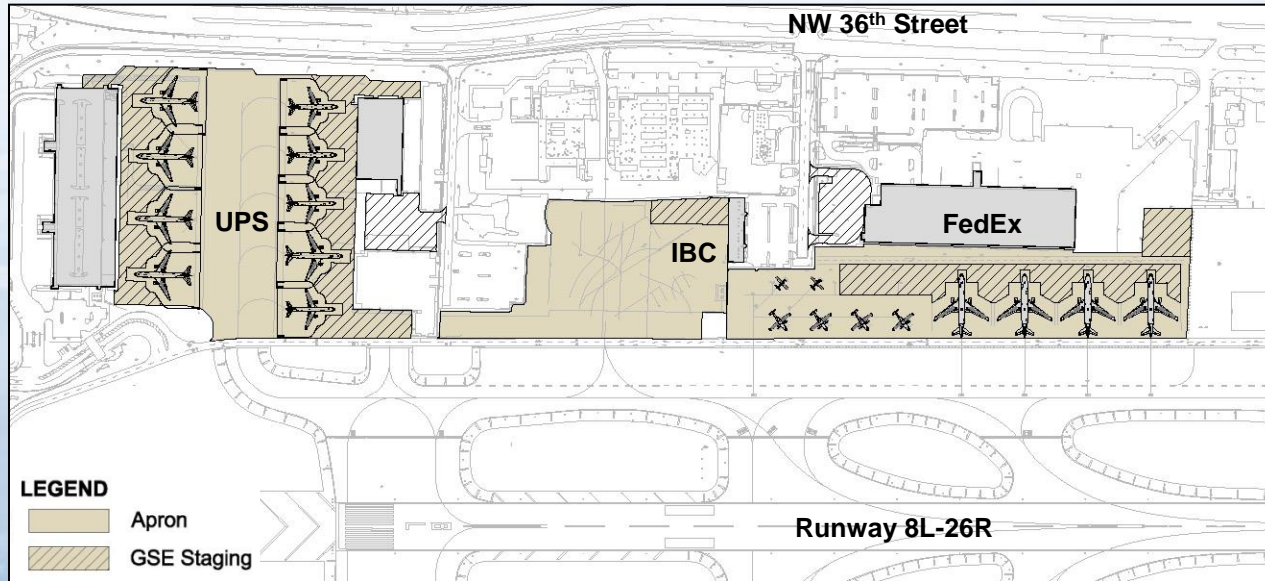
2/ The baseline parking plan is the maximum number of aircraft that can be accommodated on the apron area whereas the alternate parking plan highlights the largest aircraft type that can be accommodated.

3/ American Airlines transports cargo on passenger aircraft (i.e. belly cargo) located in the Terminal Area.



# Existing Facilities – Apron Area

## UPS, FEDEX & IBC AIRWAYS:



Area Identifier	Apron Area (acres)	Largest Aircraft that can be Accommodated	GSE Area <sup>1/</sup> (sq. ft.)	Baseline Parking Plan
UPS	14.1	B767-300	171,090	5 B757-200 4 B767-300
FedEx	9.3	MD 11	108,990	4 ATR 42 / 2 Caravan 208 4 MD11
IBC Airways	6.4	Open Ramp Area	18,940	Open Ramp Area

Note:

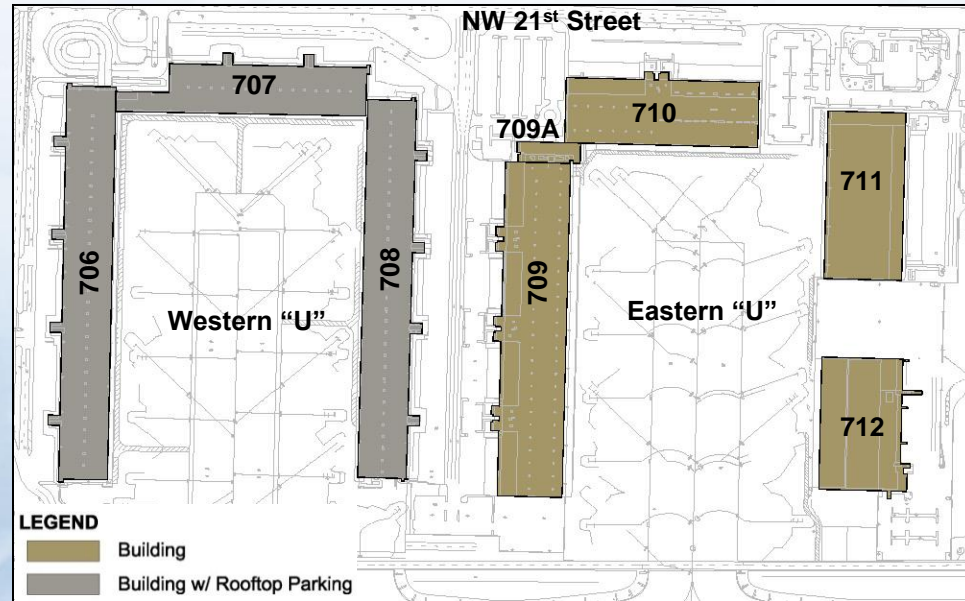
<sup>1/</sup> Ground Support Equipment (GSE) rounded to the nearest 10th.



# Existing Facilities – Cargo Buildings

STRATEGIC AIRPORT MASTER PLANNING STUDY

WESTERN “U” & EASTERN “U”:



Building ID	Existing Tenants	Total Area (sq. ft.)	Building ID	Existing Tenants	Total Area (sq. ft.)
706	Cargo Force / Cargo Services / Alliance Ground	181,497	709, 709A, 710	LAN Group / Strategic Air Services	352,569
707	Cargo Force / Cargo Services	98,622	711	Lynx Global Corporation / Alpha Cargo	127,079
708	Tampa Cargo / Avianca / Alliance Ground	175,241	712	LAN Group / Strategic Air Services	107,692

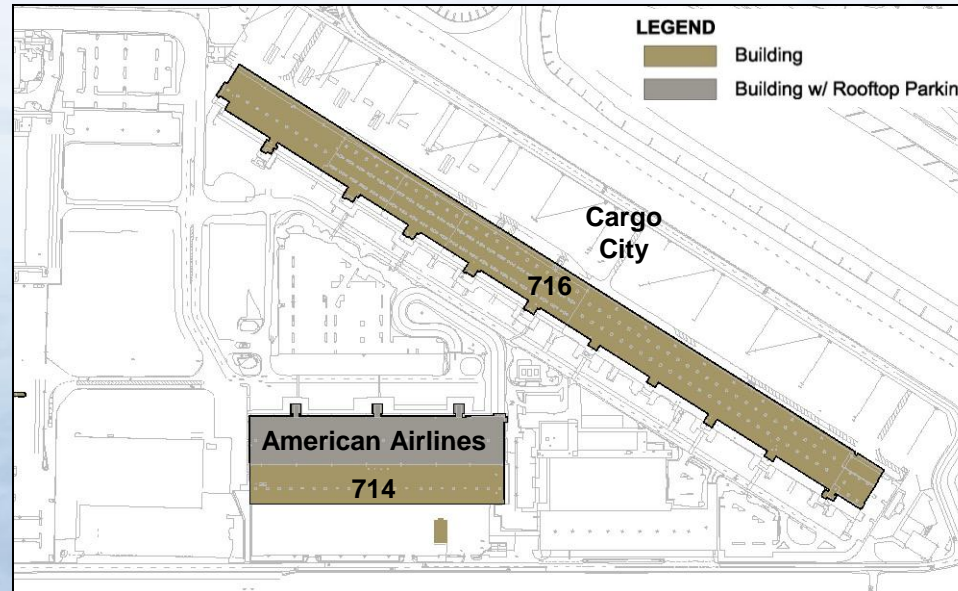
Sources: MDAD MIA Tenancy Report, October 2010., MDAD Property Manager Interviews, January 2011





# Existing Facilities – Cargo Buildings

## AMERICAN AIRLINES & CARGO CITY:



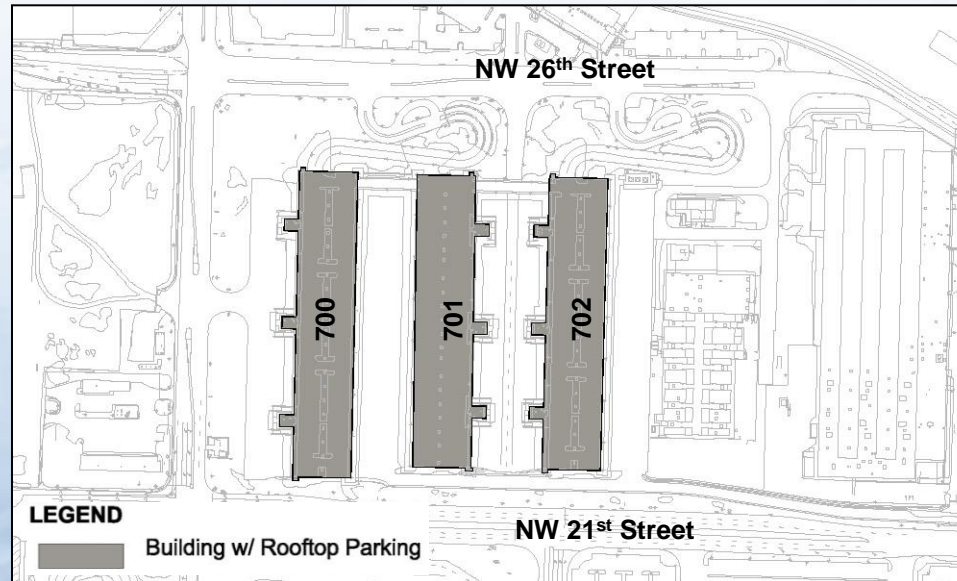
Building ID	Existing Tenants	Total Area (sq. ft.)
714	American/American Eagle Airlines	221,343
716	Cargo City (Amerijet International / DHL Express / Infinity Cargo Services / Worldwide Flight Services / Cargo Force / Servisair / GlobeGround)	369,682

Sources: MDAD MIA Tenancy Report, October 2010., MDAD Property Manager Interviews, January 2011



# Existing Facilities – Cargo Buildings

## BELLY CARGO:



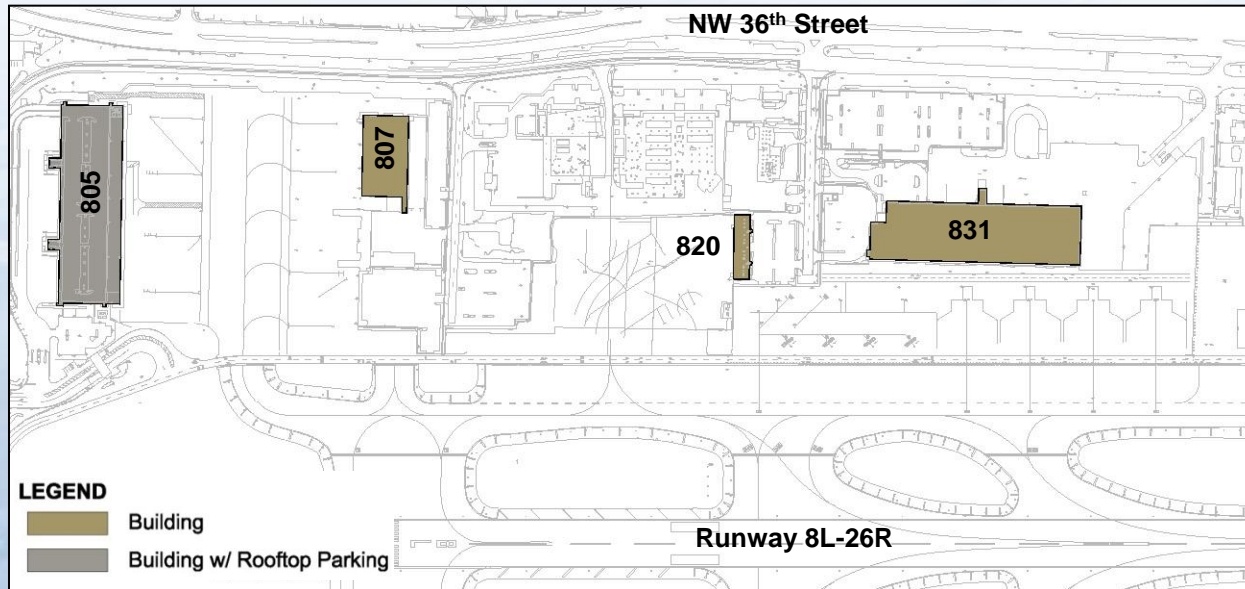
Building ID	Existing Tenants	Total Area (sq. ft.)
700	Cargo Force / Swissport Cargo	127,926
701	Air Canada / Continental Airlines / Lynx Global Corporation	125,244
702	Prime Air / Strategic Air Services	101,521

Sources: MDAD MIA Tenancy Report, October 2010., MDAD Property Manager Interviews, January 2011



# Existing Facilities – Cargo Buildings

## UPS, FEDEX & IBC AIRWAYS:



Building ID	Existing Tenants	Total Area (sq. ft.)
805	United Parcel Service (UPS)	121,720
807	United Parcel Service (UPS)	36,462
820	IBC Airways	14,273
831	Federal Express (FedEx)	118,150

Source: MDAD MIA Tenancy Report, October 2010.



# Existing Facilities – Cargo Buildings

## AIR CARGO ALLOCATION OF SQUARE FOOTAGE:

Building ID	Belly Cargo	Freight	Integrator	GSE Storage & Maintenance	Vacant	Total
700	95,926	0	0	0	32,000	127,926
701	37,984	35,242	0	10,018	42,000	125,244
702	29,743	32,691	0	5,608	33,479	101,521
706	0	181,497	0	0	0	181,497
707	0	98,622	0	0	0	98,622
708	0	175,241	0	0	0	175,241
709	0	216,314	0	0	0	216,314
709A	0	12,238	0	0	0	12,328
710	0	123,927	0	0	0	123,927
711	0	127,079	0	0	0	127,079
712	0	107,692	0	0	0	107,692
714	221,343	0	0	0	0	221,343
716	0	286,104	38,560	0	44,784	369,682
805	0	0	119,424	2,296	0	121,720
807	0	0	36,462	0	0	36,462
820	0	0	7,382	0	6,891	14,273
831	0	0	118,150	0	0	118,150
844	0	0	7,364	0	0	7,364
<b>TOTAL</b>	<b>384,996</b>	<b>1,396,737</b>	<b>327,342</b>	<b>17,922</b>	<b>159,154</b>	<b>2,286,151</b>

Note: Areas do not include office and other areas located on the upper levels of each facility.  
 Source: MDAD MIA Tenancy Report, October 2010.



# Existing Facilities – Cargo Buildings

## CARGO LOADING DOCKS & FRONTAGE:

Building ID	Loading Dock Area <sup>1,2</sup> (sq. ft.)	No. of Loading Docks <sup>3/</sup>	Loading Dock Frontage (linear feet)
700	151,480	51	803
701	123,040	48	758
702	154,710	48	758
706	95,010	83	1151
707	79,160	42	781
708	131,170	78	1277
709	121,370	60	1043
709A	N/A	N/A	N/A
710	71,530	28	552
711	56,740	30	523
712	37,420	20	413
714	71,950	51	794
716	269,400	67	2375
805	66,710	40	615
807	15,870	26	253
820	N/A	N/A	N/A
831	132,470	41	657
844	N/A	N/A	N/A

Notes:

- 1/ Includes circulation areas and access roads.
- 2/ Areas have been rounded to the nearest 10<sup>th</sup>.
- 3/ Information is based on visual inspections conducted in January 2011.

Source: Ricondo & Associates, Inc., January 2011.



# Existing Facilities – Cargo Buildings

## SPECIAL HANDLING AREAS:

- Climate controlled areas for perishable products: Approximately 300,000 square feet in Buildings 700, 701, 702, 706, 708, 710, 711, 712, 714, 716, 805.
- Express, mail, and courier services area: Approximately 320,000 square feet in Buildings 716, 805, 807, 820, 831 and 844.\*
- Secure storage areas for valuable goods are located throughout the cargo area. These facilities are operated by individual tenants and located within their current leaseholds. MDAD does not maintain any records of secure cargo storage areas.
- Animal handling areas are located within Building 815, which is operated by the U.S.D.A. There is also an animal quarantine area within the Cargo Clearance Center.
- Fumigation Facilities: Approximately 10,000 square feet in Building 817. A temporary facility has been established in a vacant parking lot located to the immediate east of the Cargo Clearance Center.

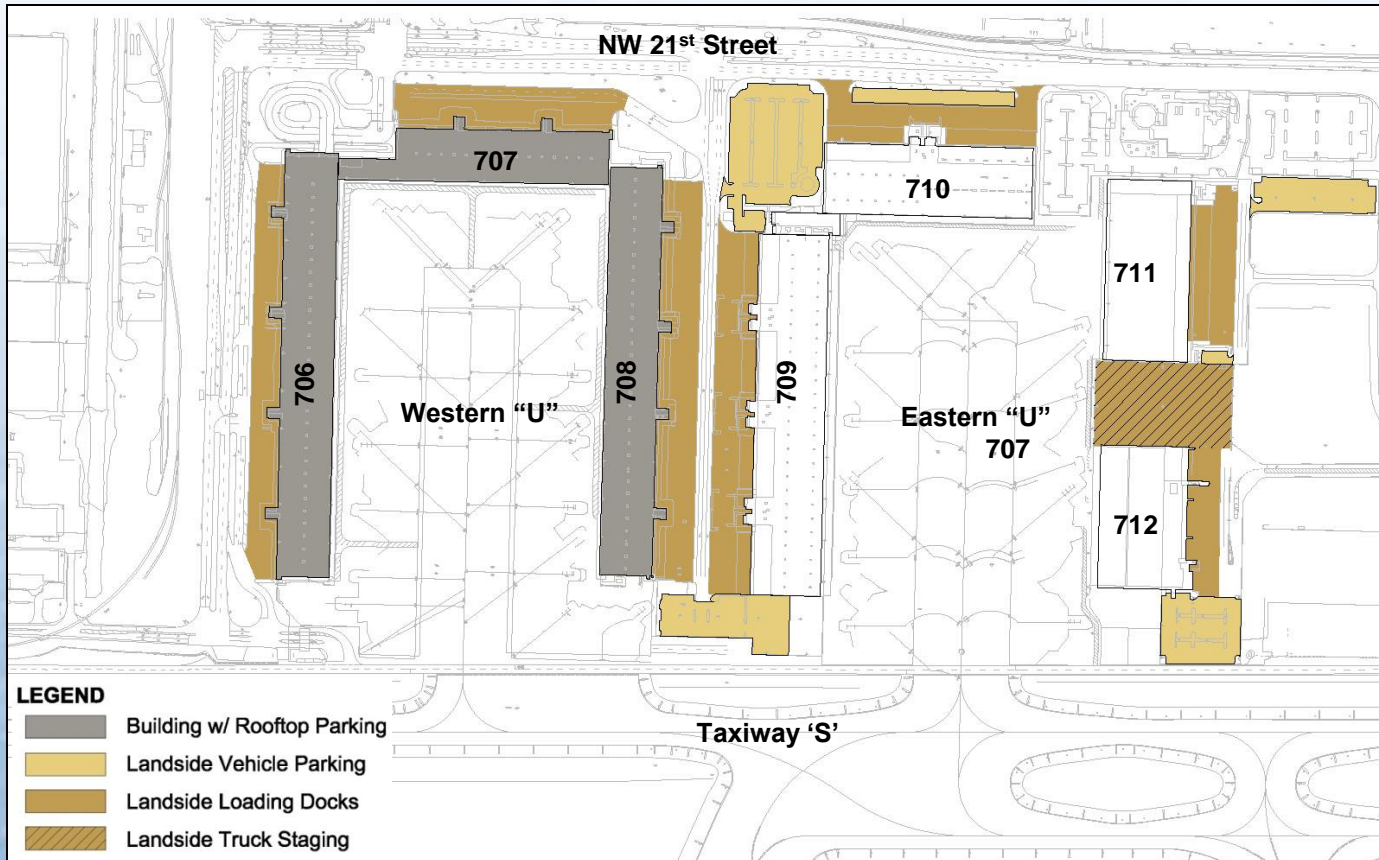
\* Includes DHL Express, UPS, IBC Airways and FedEx.



# Existing Facilities – Landside

STRATEGIC AIRPORT MASTER PLANNING STUDY

WESTERN “U” & EASTERN “U”:



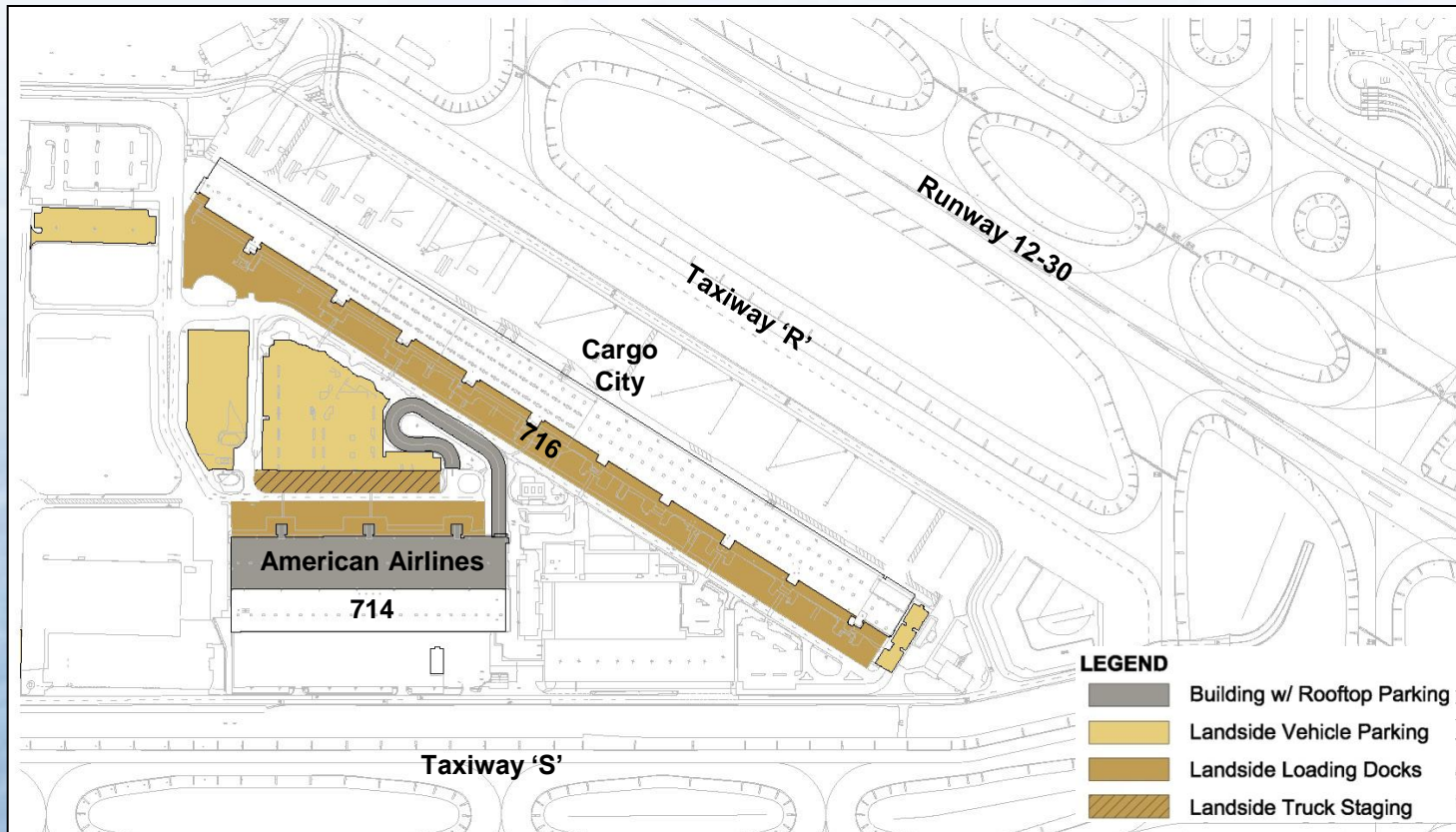
Note:  
Landside loading dock areas include access roads and circulation areas.



# Existing Facilities – Landside

STRATEGIC AIRPORT MASTER PLANNING STUDY

## AMERICAN AIRLINES & CARGO CITY:



Note:  
Landside loading dock areas include access roads and circulation areas.

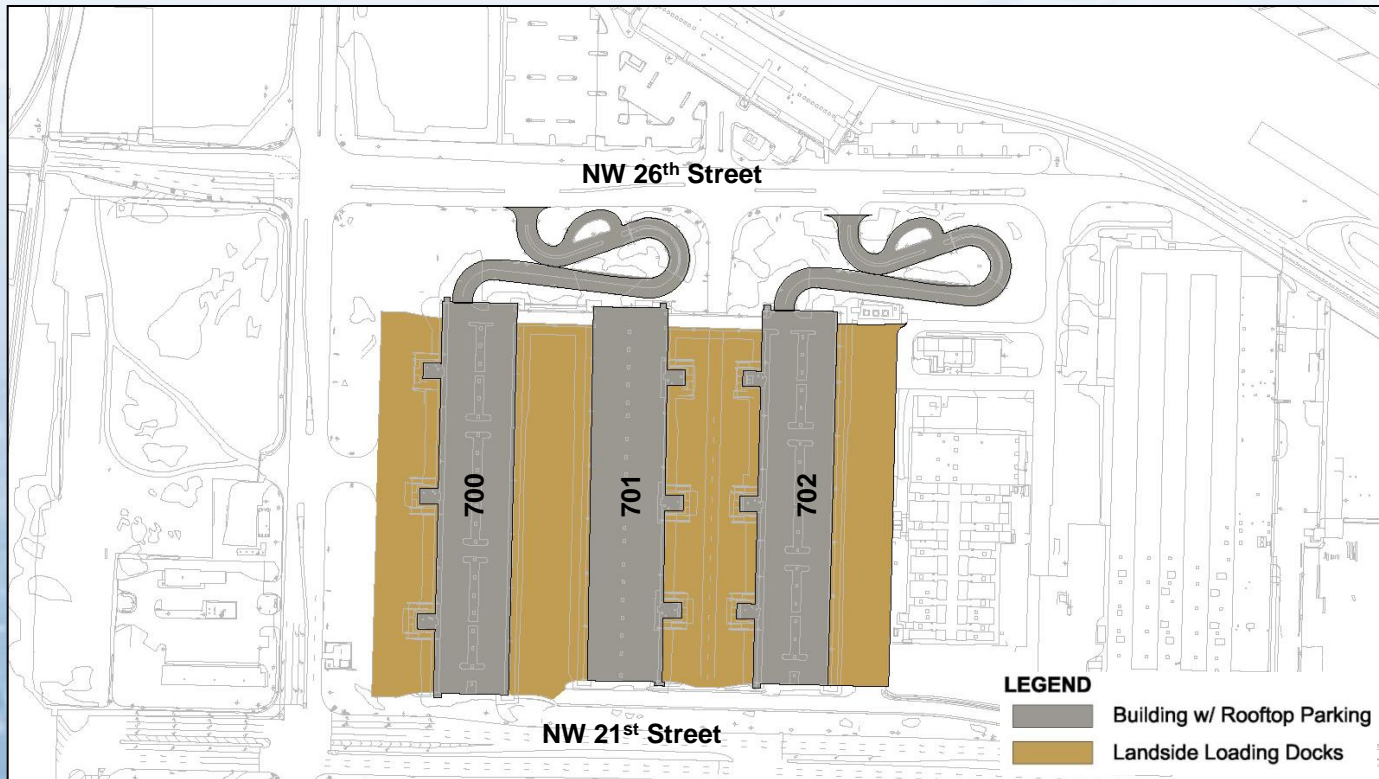




# Existing Facilities – Landside

STRATEGIC AIRPORT MASTER PLANNING STUDY

## BELLY CARGO:

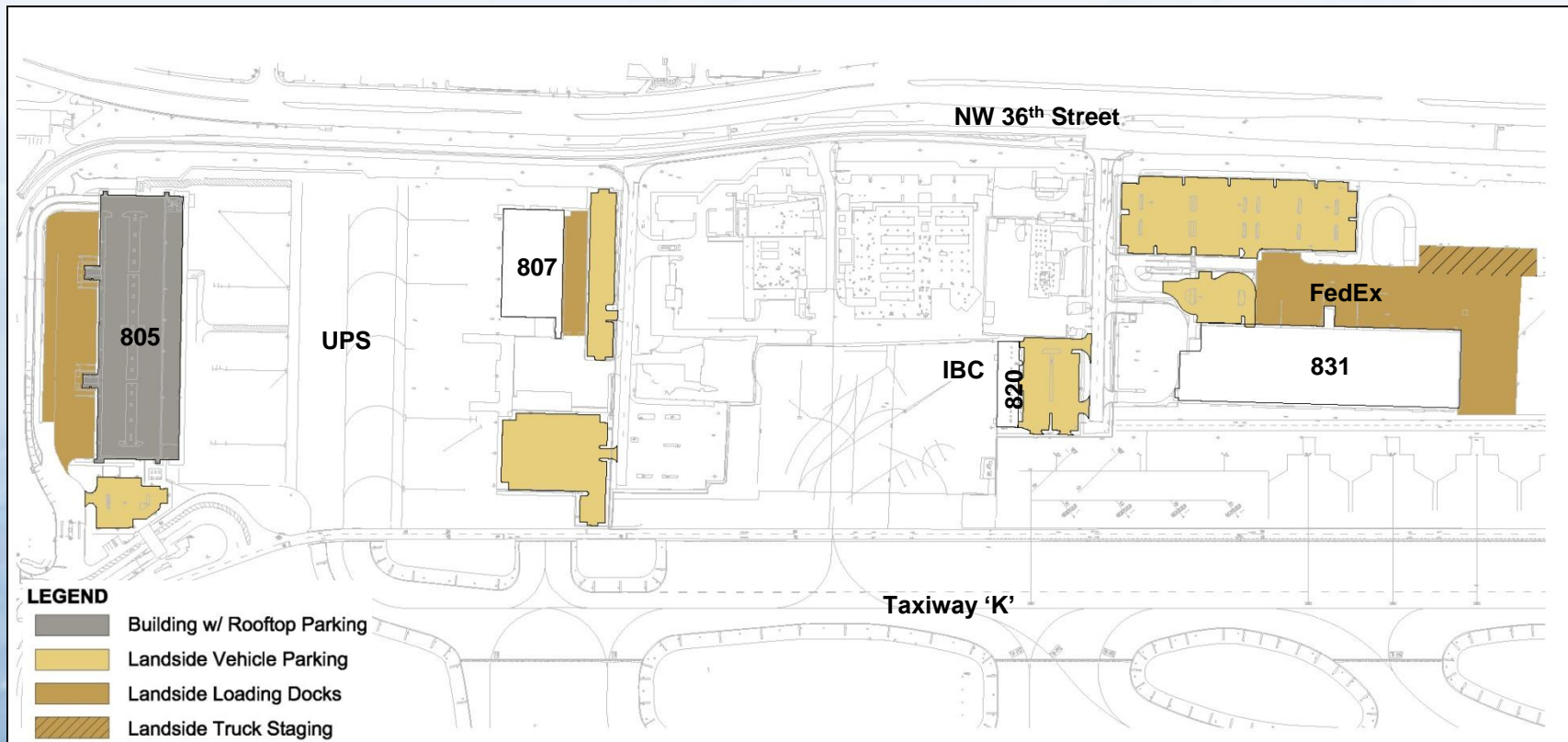


Note:  
Landside loading dock areas include access roads and circulation areas.



# Existing Facilities – Landside

## UPS, FEDEX & IBC AIRWAYS:



Note:  
Landside loading dock areas include access roads and circulation areas.



# Existing Facilities – Landside Facilities

## STRATEGIC AIRPORT MASTER PLANNING STUDY

Building ID	Surface Parking Area ( sq. ft.)	Rooftop Parking Area (sq. ft.)	Estimated No. of Parking Stalls <sup>2/</sup>	Truck & Trailer Staging (sq. ft.)	GSE Staging Areas (sq. ft.)	Total Landside Facilities (sq. ft.)
700	0	124,260	311	0	0	124,260
701	0	119,020	298	0	0	119,020
702	0	119,040	298	0	0	119,040
706	0	192,720	482	0	0	192,720
707	0	106,250	266	0	0	106,250
708	0	184,120	460	0	0	184,120
709	50,230	0	128	0	0	50,230
709A	94,540	0	236	0	0	94,540
710	19,450	0	96	0	0	19,450
711	36,900	0	118	0	0	36,900
712	44,140	0	100	96,180	0	140,320
714	124,700	0	312	35,140	0	159,840
716	194,810	0	432	0	0	194,810
805	16,320	121,250	233	0	0	137,570
807	70,910	0	177	0	36,990	107,900
820	30,530	0	76	0	0	30,530
831	112,660	0	282	17,870	34,240	164,770
<b>TOTAL</b>	<b>795,190</b>	<b>966,660</b>	<b>4,304</b>	<b>149,190</b>	<b>71,230</b>	<b>1,982,270</b>

Notes:

1/ Areas have been rounded to the nearest 10<sup>th</sup>.

2/ Number of parking stalls were estimated based on field investigations or an allocation of 400 square feet per space.



## CONSTRAINTS AND ISSUES:

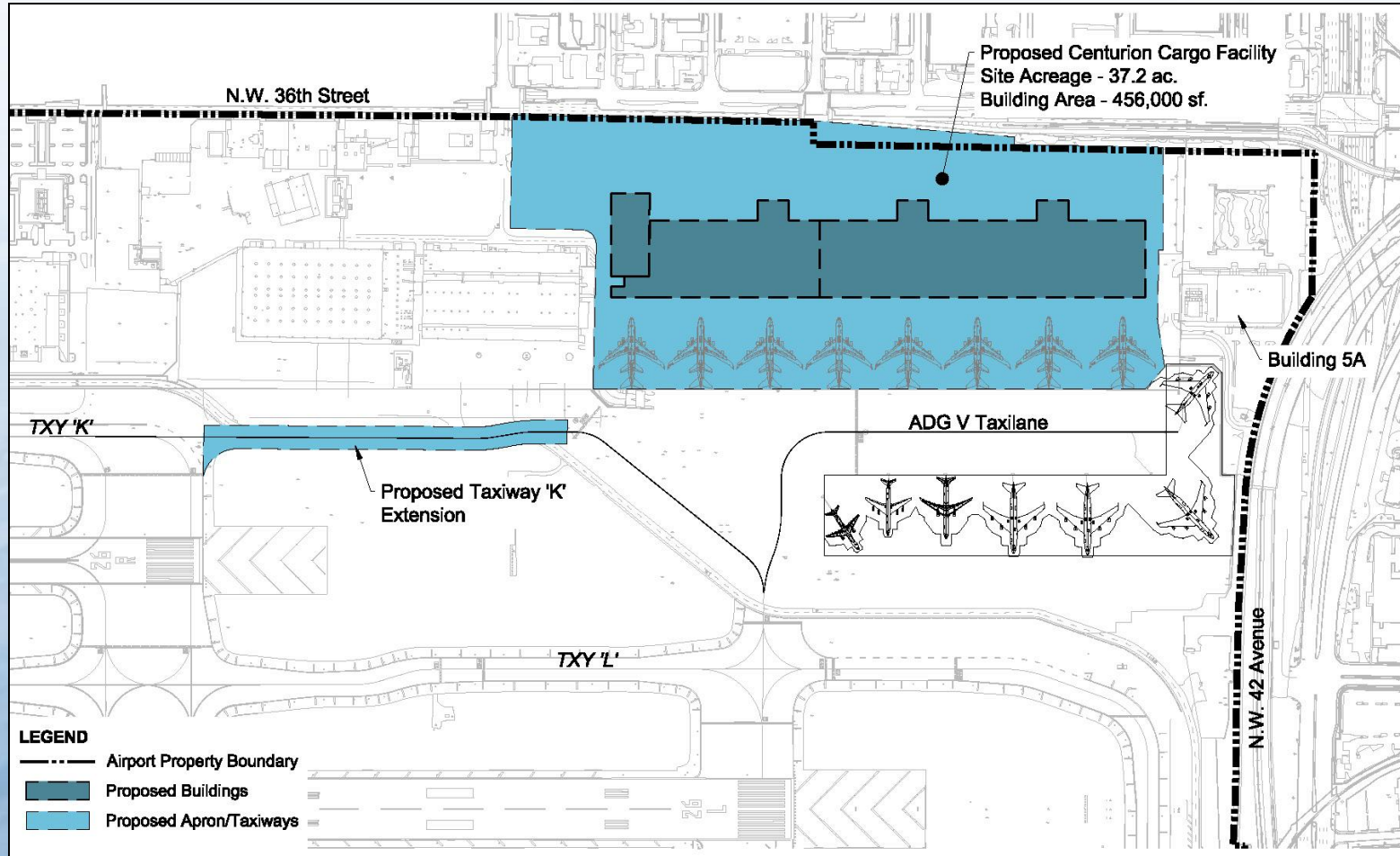
- Cargo warehouses with airside access are currently at full capacity.\*
- MD-11s parked at FedEx currently penetrate Runway 8L-26R transitional surface by approximately 10 feet.
- Cargo operators currently use landside staging areas that are not within their leaseholds.
- Lack of staging areas and/or inefficient GSE storage results in the staging of support equipment, tractor trailers, and etc. in pervious and non-delineated areas.

\* Based on discussions with MDAD, all available space within Building 716 will be leased in 2011.



# Planned Facility Improvements

STRATEGIC AIRPORT MASTER PLANNING STUDY



- Review industry planning metrics and define demand/capacity parameters.
- Assess existing facilities utilization rates.
- Benchmark other international gateways such as New York JFK, Chicago O'Hare, and Los Angeles LAX.
- Compare projected demand to existing capacity and gauge potential facility shortfalls.
- Define short- and long-term facility needs.
- Evaluate potential development alternatives.

