**Phase 5 - Proposed Action**

**Proposed Action Totals**

- Cargo Building Footprint (sf): 1,128,300
- Taxiway/Taxilane Pavement (sf): 2,849,600
- Apron Pavement (sf): 2,237,000
- Stormwater Management Area (ac): 565,485
- Relocated Road Pavement (sf): 250,670
- Auto Parking (spaces): 1,513
- Potential Wetland Impact (ac): 8.4
- Potential Waterway Impact (ac): 10.6

**Legend**

- Proposed Building
- Proposed Airfield Pavement
- Proposed Landslide Pavement
- Proposed Vehicle Service Road (VSR)
- Abandoned Tinicum Island Road Alignment
- 2019 JD Waterways
- 2019 JD Wetlands
- Proposed Stormwater Management
- Parcel Boundary
- Project Area
- Stream
- Object Free Area (OFA)
- Blast Fence
- Proposed AOA Fence
- Taxiway / Taxi Lane Centerline
- Runway 9R RPZ
- ADG VI (Not to Scale)
- ADG V (Not to Scale)
- ADG IV/III/II (Not to Scale)
- Truck/Trailer (Not to Scale)
- Deicing Truck (Not to Scale)

**Notes:**

1. Wingtip spacing between cargo aircraft is 30 ft.
2. Wingtip spacing between RON aircraft is 20 ft.
3. Quantities are approximate and subject to change.
4. Stormwater management areas are conceptual and depicted for locational purposes only.
5. Updated Tinicum Island Road alignment provided by JMT 9-5-2019.

**Conceptual Long Hook Creek Bridge to Cargo Support Expansion Area**

- 0.17 AC impact (Wetland F)
- 33.0 LF stream impact (LH-4)
- 0.10 AC floodway impact (LH-4)
NOTES:
1. AERIAL PHOTOGRAPHY OBTAINED FROM THE PENNSYLVANIA
   SPATIAL DATA ACCESS (PASDA) WEBSITE.
2. WETLAND DELINEATION OBTAINED FROM "DELINEATION OF
   WETLANDS AND WATERWAYS OF THE PHILADELPHIA
3. DELINEATION OF WETLAND B HAS BEEN REVISED BASED UPON
   COORDINATION WITH TINICUM TOWNSHIP AND REVIEWING
   AGENCIES TO EXCLUDE EXISTING STORMWATER BASIN CONTAINED
   WITHIN DRAINAGE AND DETENTION POND EASEMENT AS SHOWN
   ON LOT 28-29 AIRPORT BUSINESS CENTER PLANS PREPARED BY
   HERBERT E. MACCOMBIE, JR., P.E. CONSULTING ENGINEERS AND
   SURVEYORS, DATED JUNE 4, 1986.
4. FEMA DETERMINED FLOODWAY DOES NOT EXIST FOR LONG HOOK
   CREEK; THEREFORE THE FLOODWAY WAS DELINEATED BY
   EXTENDING 50 FEET LANDWARD FROM THE TOP OF EACH
   STREAMBANK (ORDINARY HIGH WATER MARK).
1. AERIAL PHOTOGRAPH OBTAINED FROM THE PENNSYLVANIA NOTES:


SPATIAL DATA ACCESS (PASDA) WEBSITE.

ARCHITECT/ENGINEER OF RECORD

TINICUM ISLAND

LONG HOOK CREEK WATERCOURSE IMPACTS

LONG HOOK CREEK FLOODWAY IMPACTS

WETLAND IMPACTS

E-5

CREATION

EXCAVATION

TEMPORARY IMPACTS

PERMANENT IMPACTS

PERMANENT FILL

EXISTING WATERS OF THE US

EXISTING LIMIT OF DISTURBANCE

E-5

PERMANENT FILL (OUTTALL) 0.09 AC

PERMANENT FILL (ROADWAY) 0.24 AC

TEMPORARY FILL (OUTTALL) 0.07 AC

TEMPORARY FILL (ROADWAY) 0.37 AC

EXISTING WETLAND ENHANCEMENT (EM)

EXISTING FLOODPLAIN (EM) ZONE AE

LONG HOOK CREEK (LH-J)

LONG HOOK CREEK (LH-C)

TEMPORARY FILL (ROADWAY) 0.14 AC

TEMPORARY FILL (OUTTALL) 0.07 AC

TEMPORARY FILL (ROADWAY) 0.13 AC

TEMPORARY FILL (OUTTALL) 0.14 AC

PERMANENT FILL (ROADWAY) 0.14 AC

PERMANENT IMPACTS (0.28 AC)

TEMPORARY IMPACTS (0.88 AC)

PERMANENT IMPACTS (2.73 AC)

TEMPORARY IMPACTS (0.19 AC)

PERMANENT IMPACTS (0.19 AC)

TEMPORARY IMPACTS (0.96 AC)

PERMANENT IMPACTS (0.12 AC)

TEMPORARY IMPACTS (0.12 AC)

PERMANENT IMPACTS (0.01 AC)

TEMPORARY IMPACTS (0.01 AC)

PERMANENT IMPACTS (0.001 AC)

TEMPORARY IMPACTS (0.001 AC)
CUT/FILL AT STA 44+00.00
C - 0 SF  F - 912 SF

CUT/FILL AT STA 44+50.00
C - 0 SF  F - 912 SF

CUT/FILL AT STA 45+00.00
C - 0 SF  F - 988 SF

E-15
MITIGATION LEGEND

- WETLAND MITIGATION BOUNDARY
- LIMITS OF TIDAL WETLAND CREATION
- EXISTING WETLANDS
- WETLAND CONVERSION
- WETLAND LOSS

E-20