abbreviations

- Co-locate similar AC on the same stop bar when possible All aircraft parking positions are to be designed in a manner that cargo/baggage operations do not interfere with fueling operation, adjacent gate aircraft support operations, etc.
- Ensure AC main gear has suitable clearance from fuel pit to allow fueling The minimum clearance between the PBB mounted bag slide and the engine cowling should not be less than 4' when the PBB is mated to the
- Do not use circles or arcs for the safety boxes POP maintenance doesn't
- When possible, ensure the landing gears do not site at the edge of a concrete panel
- Each airline has independent GSE parking requirements, and PBB stow locations and striping. Additionally, Southwest Airlines has a unique safety box requirement. Often, the airline is responsible for their striping, but if we need to add their information to our design, you should refer to the standards provided by each airline for information on what they need.

Design considerations —

Label each type of AC for each stop bar. If multiple models of same type, group label accordingly:

- B737-400/700/800/900
- A318/319/320
- Stop bar label examples —
- Nose to obstruction (fence, building) 30'-0"
- Wing tip to adjacent AC: 20'-0"
- Wing tip to non-movable objects: 25'-0"
- Maximum distance to fuel pit: 30'-0" radius

AC clearances

- Forward of nose: 10'-0"
- Each side of main fueslage: 5'-0" Leading edge of wing: 15'-0"
- Wing tip: 5'-0"
- Tail to VSR: 5'-0" (recommended minimum) IF it is a temporary position and the tail is into the VSR, a cone may be placed below the tail to indicate the obstruction to vehicle traffic.
- Engine ingestion:

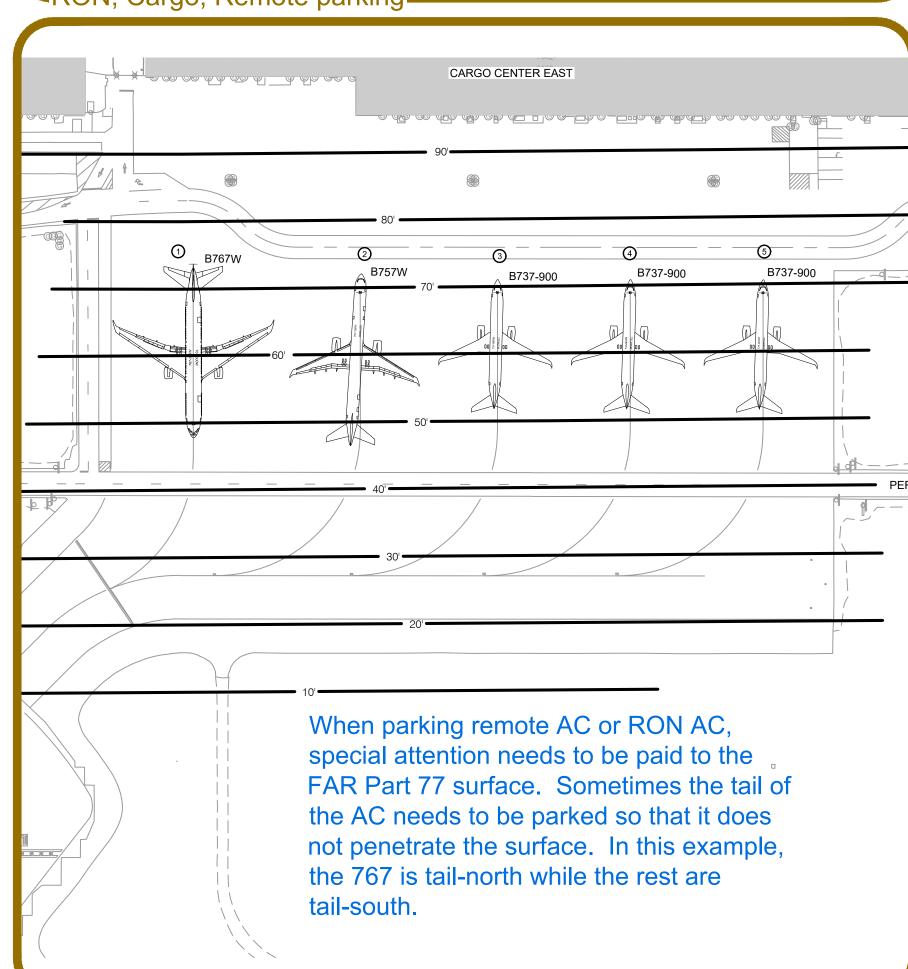
10 forward and to sides: 15'-0" narrow body 18'-0" wide body

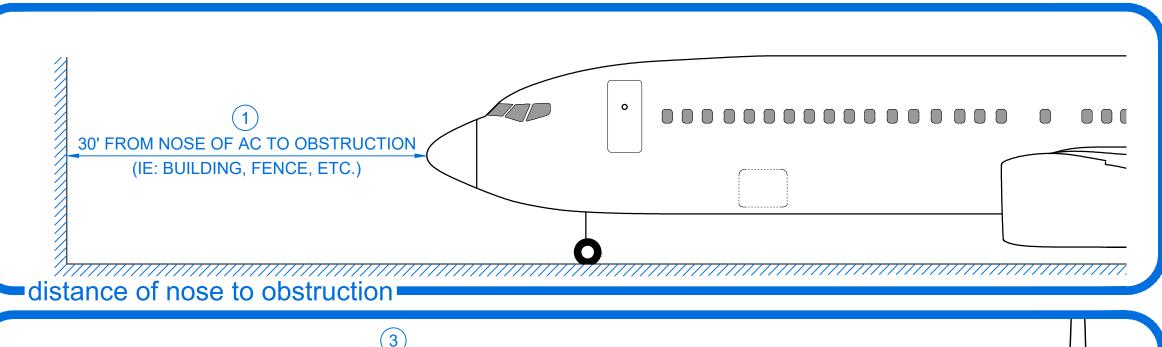
11) rear: 5'-0"

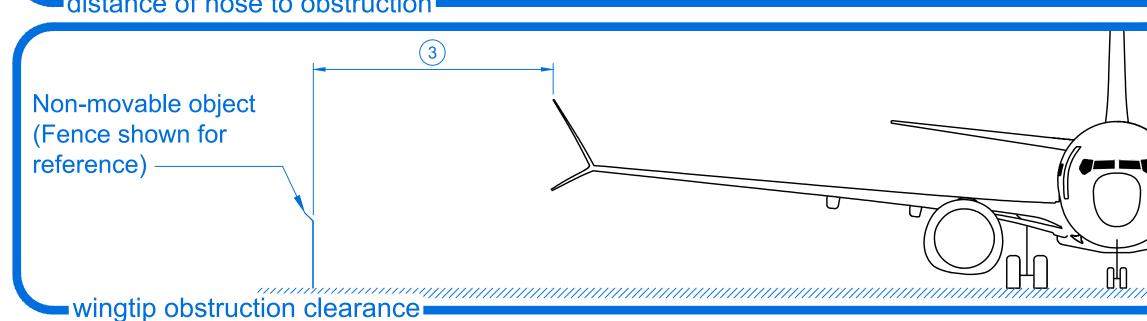
AC to striping clearances

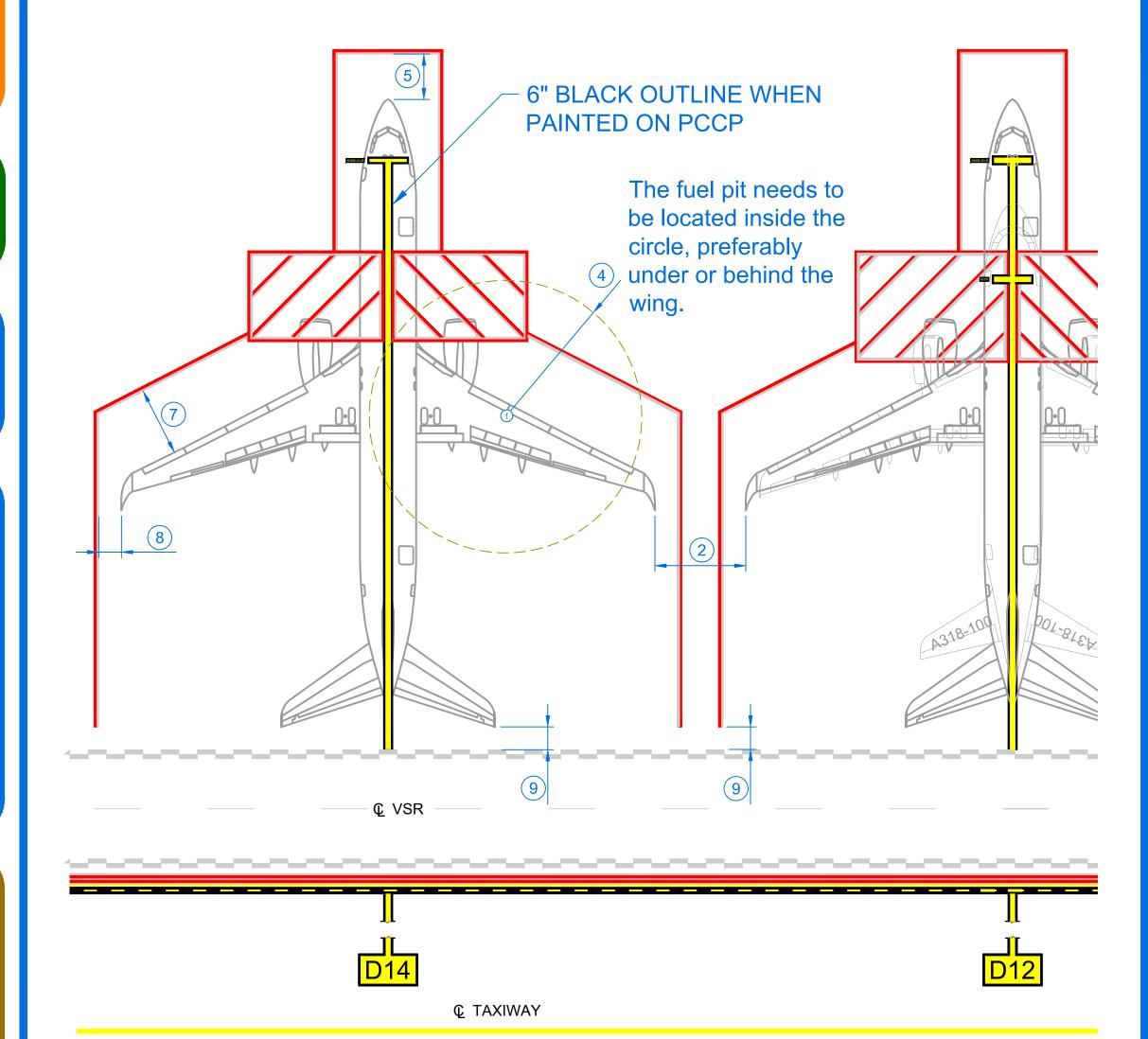
- RON parking best practice utilizes not only 25' minimum around non-movable objects like fences, buildings, light poles, etc. but also for taxiing aircraft - unless wing walkers are utilized to guide the aircraft then you can go to a minimum of 10'.
- RON AC have a little more leeway for wingtip clearance than gate parked AC and can be parked closer together if wing walkers are used. Ideally, 20' is the minimum.
- RON AC require the same clearance from the nost of the AC to an obstruction as gate parking - 30' min. Sometime the airline may ask for more and that is ok.
- Remote parking AC and RON AC also need to take into account the FAR part 77 surface. Some situations require the tail of the AC to be further away from the runway or taxiway to remain clear of the surface.
- Position identifiers are smaller for RON than gate or cargo apron positions. Sometimes AC model is called out as well, if multiple positions are utilized on the same lead in stripe.

RON, Cargo, Remote parking

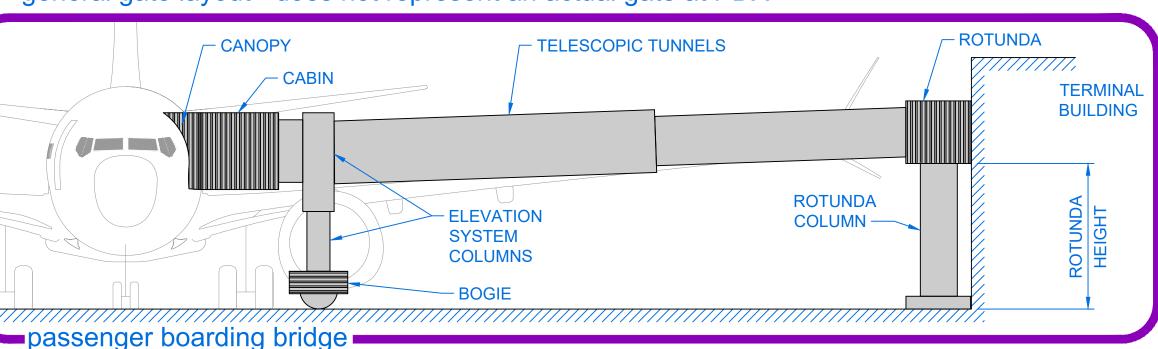








general gate layout - does not represent an actual gate at PDX —



Gate Bridge Model

PBB model numbers

Concourse B
13.58'
Concourse C
15.00' - Gates C1, C3, C5, & C7
13.67' - Gate C6, & C8 through Gate C23
Concourse D
13.58'
Concourse E
12.50'

rotunda height

reference: PBB Advisory Circular AC150/5220-21C

Unassisted the maximum slope is: 1:12 (8.333%)

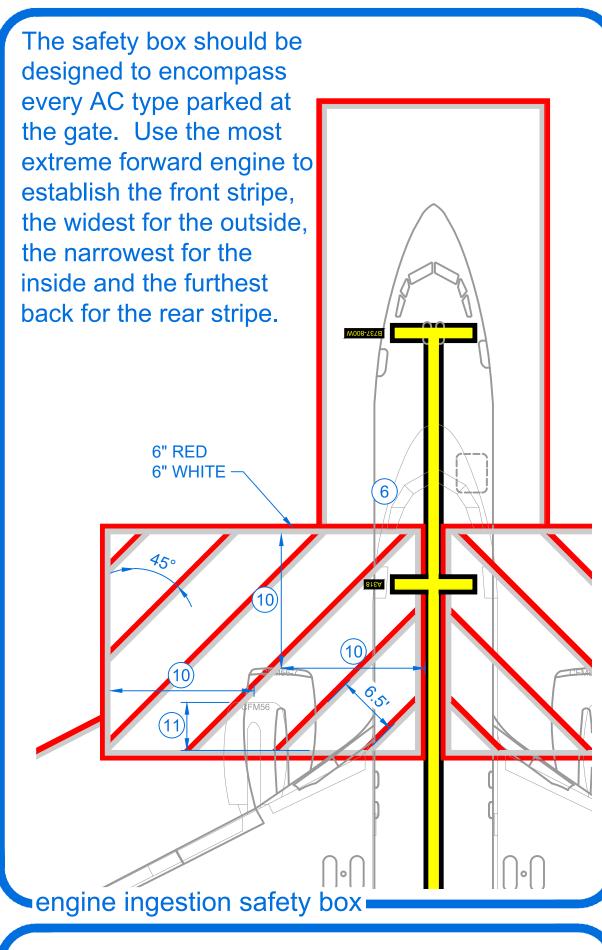
If the distance is 5' or less, the maximum 1:8 (12.5%) slope is:

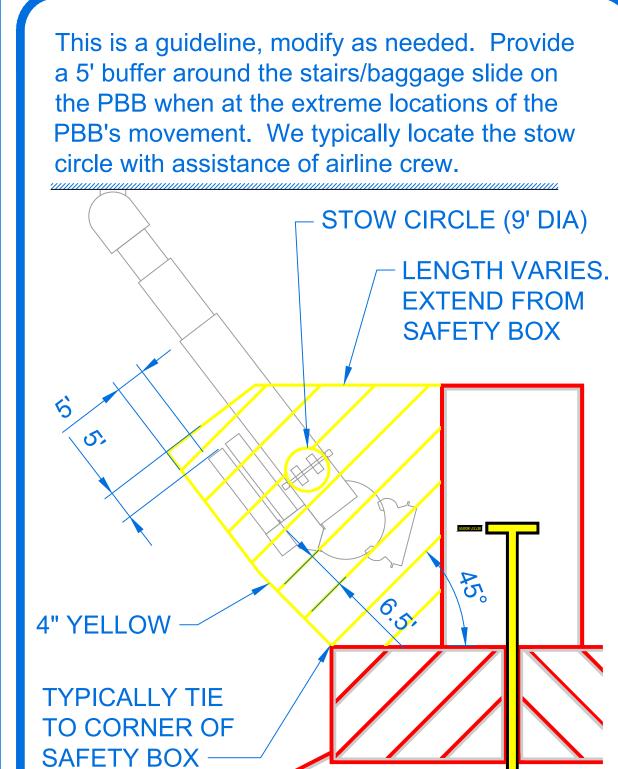
For assisted access the slope maximum is: 1:4 (25%). Note that for slopes greater than 8.33% the airline would need to provide assistance. So, the question is, does the airline need to rovide assistance or not? That is more of an operational limitation,

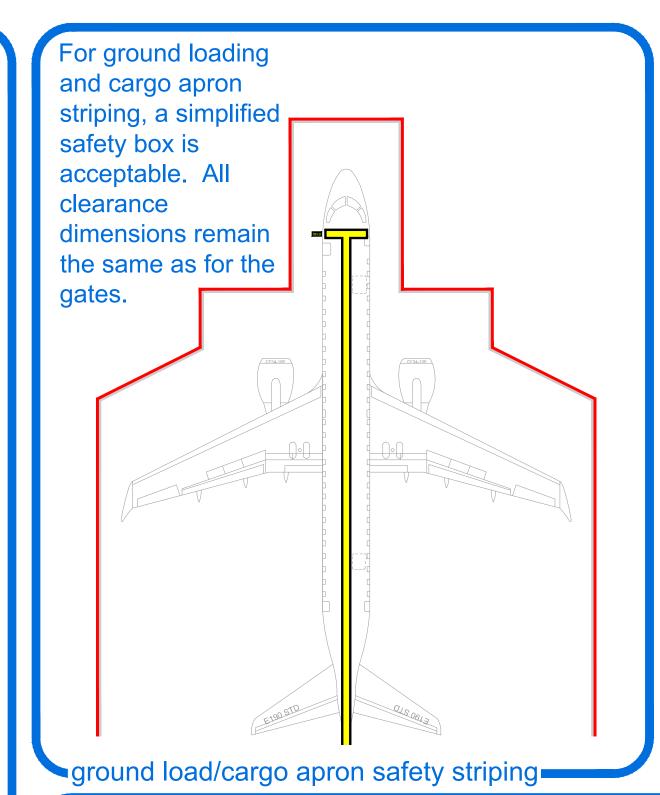
rather than a design limitation. Every attempt will be made to stay below the maximum unassisted (8.33%) slope when designing the parking position. The Port of Portland Airside Operations will need to coordinate with the Airline to determine whether the proposed slope is acceptable, and what, if any, other options to take.

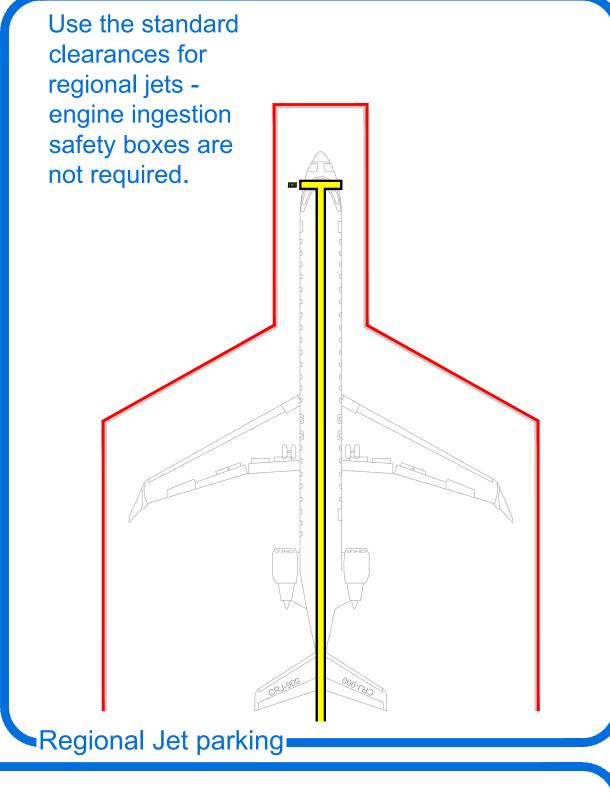
B2	A3-58/110-125R CE		D1	A3-!	58/110	
B3	A3-68/141 125R CE		D3	A3-5	58/110	
B4	A3-58/110-125R CE		D4	A3-!	50/95	
B5	A3-58/110-125R CE		D5	A3-6	60/119 125R CE	
			D6	A3-6	60/119 125R CE	
<u> </u>	Duides Madal		D7	A3-6	60/119 125R CE	
Gate		D8		A3-6	60/119 125R CE	
C1	A3-60/119-125R		D9 A3-0		60/119 125R CE	
C3	A3-60/119		D10	A3-6	A3-60/119 125R CE	
C4	A3-60/119-125R		D11		A3-58/110-125R	
C5	A3-60/119-125R		D12		A3-60/119 125R CE	
C6	A3-58/110-125R		D13		A3-60/119 125R CE A3-60/119 125R CE	
C7	A3-50/110-125R		D14			
C8	A3-50/95-125R		D15	A3-60/119-125R		
C9	A3-60/119 125R CE		D13	713 (30/113 1231	
C10	A3-50/110-125R					
C11	A3-53/104-125R				Duides Madel	
C12	A3-53/104-125R	G	Gate		Bridge Model	
C13	A3-58/110-125R	E2	E2 (old E1)		A3-50/95	
C14	A3-60/119 125R CE	E3			A3-58/110 125R CE	
C15	A3-58/110-125R	E4			A3-58/110 125R CE	
C16	A3-60/119 125R CE	E5			A3-58/110 125R CE	
C17	A3-60/119 125R CE	E6			A3-58/110 125R CE	
C18	A3-58/110-125R	E7			A3-58/110 125R CE	
C19	A3-58/110-125R	E8			A3-68/141 125R CE	
C20	A3-60/119-125R	E9			A3-60/119 125R CE	
C21	A3-60/119-125R	E10			A3-58/110 125R CE	
C22	A3-60/119-125R	E11			A3-58/110 125R CE	
C22	A3-00/113-123N		_		-	

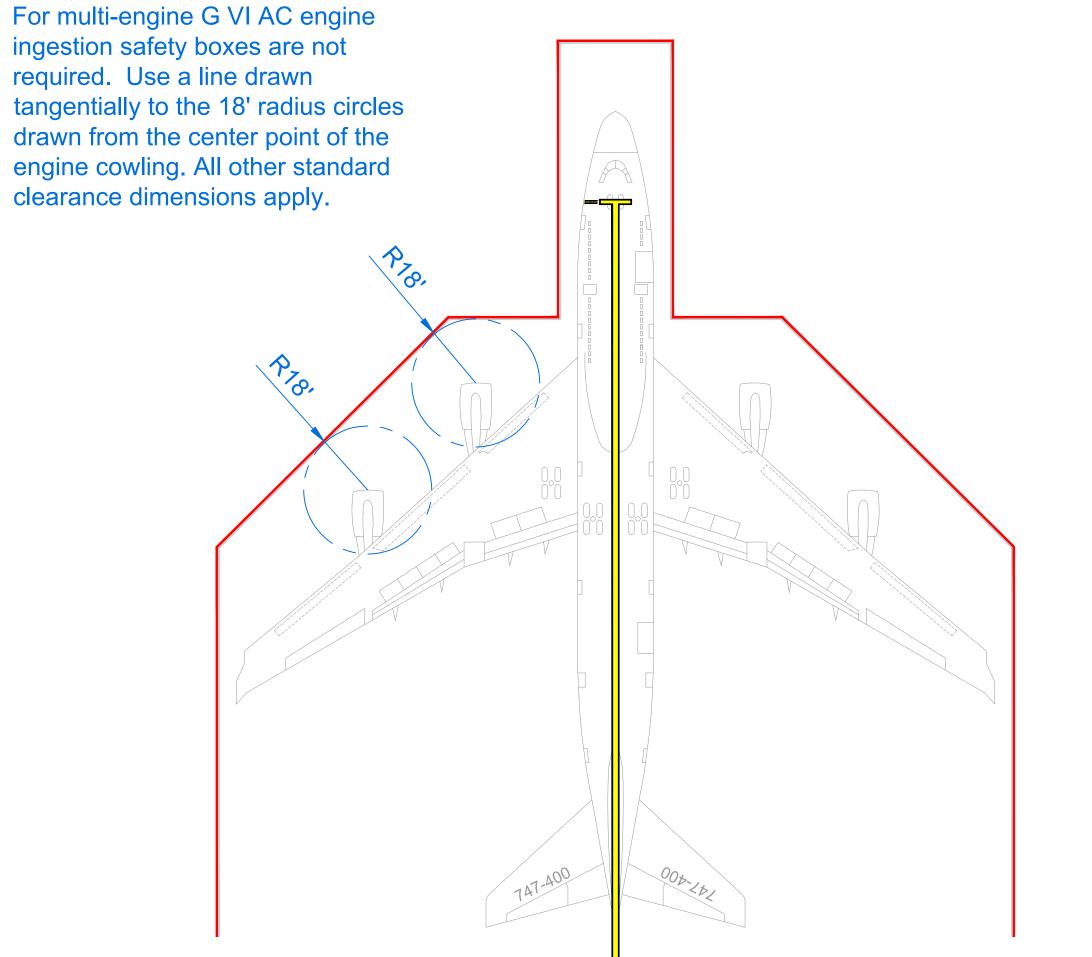
Gate Bridge Model

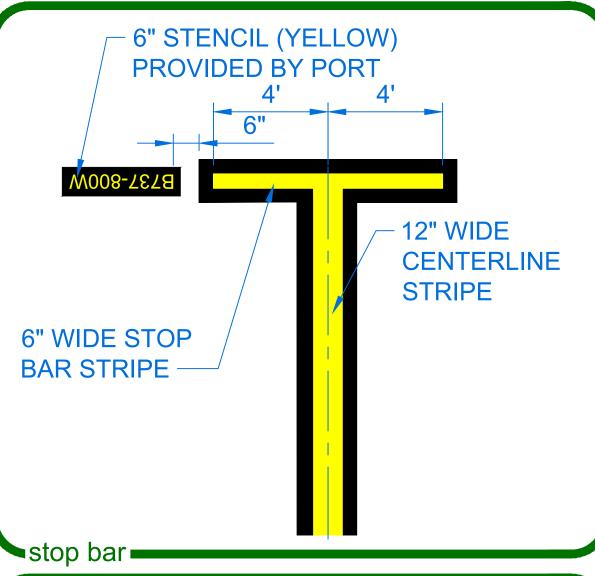




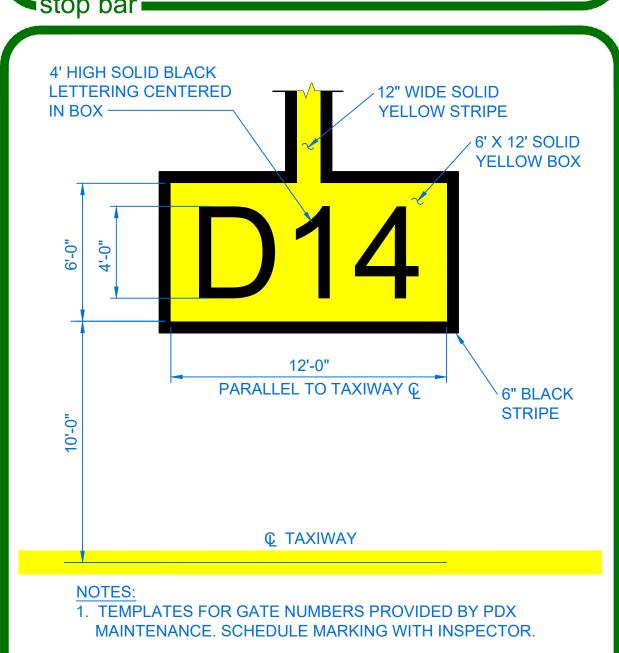








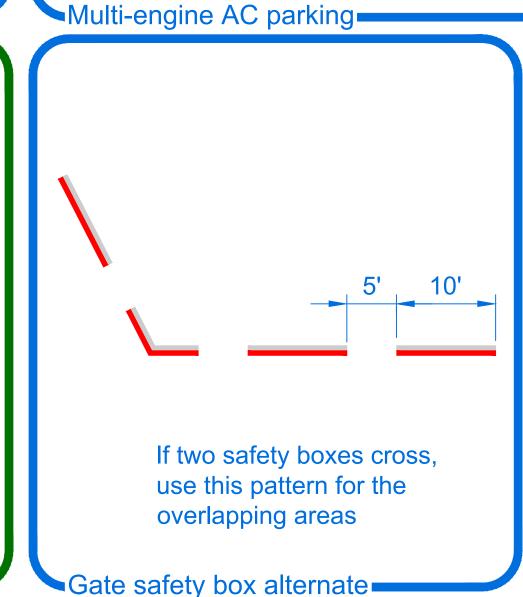
bogey box with stow circle



2. TEMPLATES TO BE CLEANED AND RETURNED PROMPTLY

AFTER USE.

gate lead in line identifier



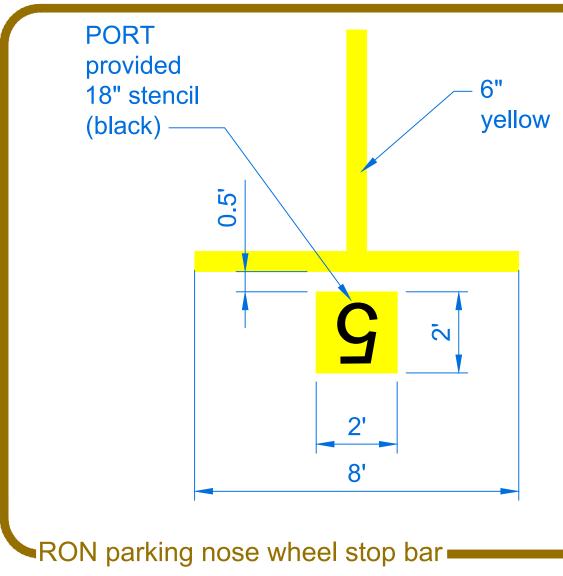
G TAXIWAY

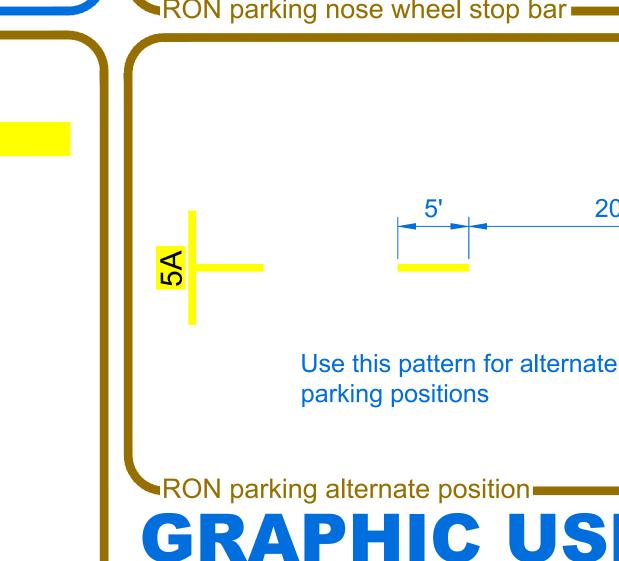
PORT

provided

(black)

►RON parking lead in line—







PORTLAND INTERNATIONAL AIRPORT

AIRCRAFT PARKING AND MARKING STANDARD

FOR PARKING AIRCRAFT AROUND THE TERMINAL

SK-1 APRON PARKING AND REMAIN OVER NIGHT DRAWING SCALE IS REDUCED 50% WHEN SHEET SIZE IS 11" x 17'

OCT 2021

N.T.S

SHEET NO. 1/1

RINTED: 10/13/2021 2:10:45 PM EBERTP x:\pop - ac parking standards.dwg

FAR Part 77 surface limitations