

Design Meeting: 02 January 19, 2021

RAPID CITY REGIONAL AIRPORT: AIRPORT PLANNING STUDY

Rapid City, South Dakota

Alliiance Commission No.: 2021010 RAP Project No.: xxxx



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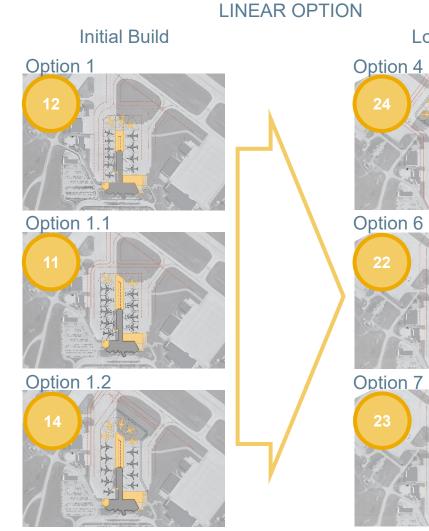
Agenda

1.0 Project Design Update

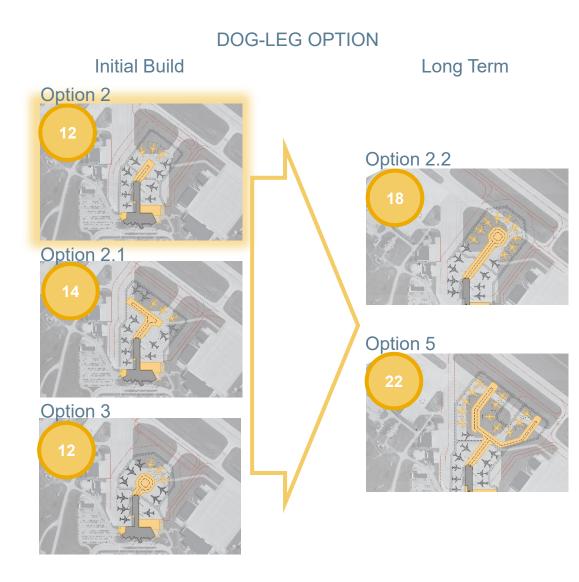
- Site Options Review
- Preferred Option
 - Site
 - Airspace Part 77
 - ATCT Line of Sight
 - EDS Baggage Screening, Baggage Claim, & Rental Car
- Conceptual Floor Plan Review
- 3D Massing Study & Sections
- 2.0 Next Steps

SITE OPTIONS REVIEW

Site Options Review Initial & Long Term







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PREFERRED OPTIONS

Preferred Option Full Build: 12 gate + RON





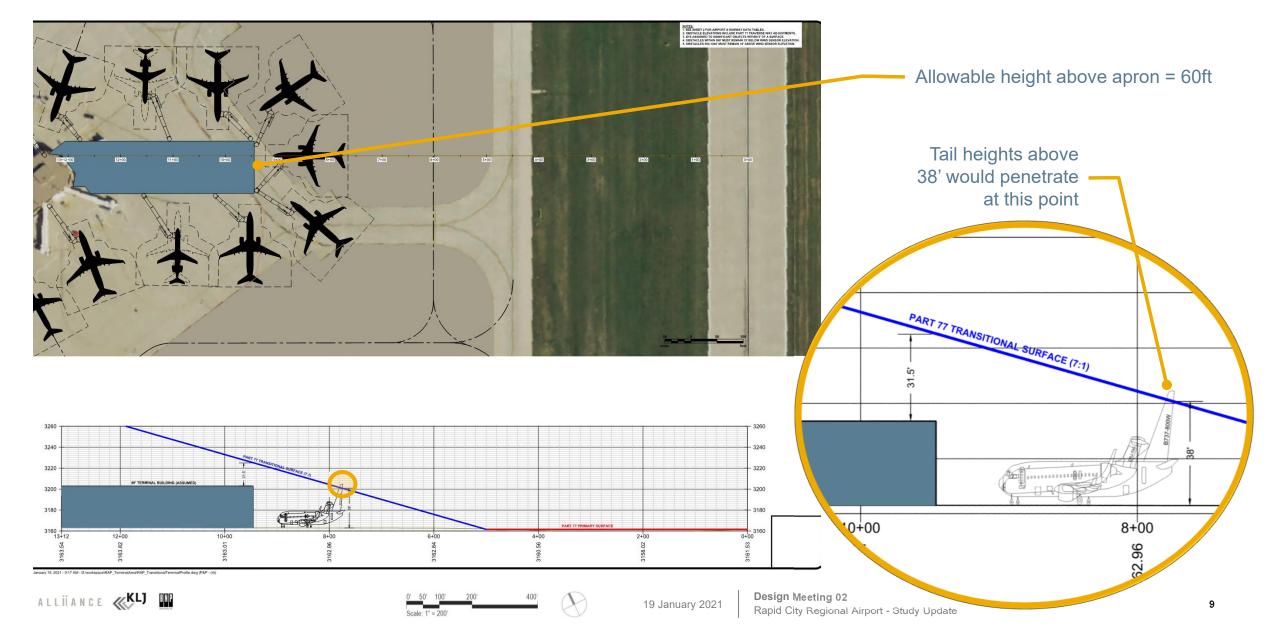
Preferred Option Reduced Build: 10 gate + RON





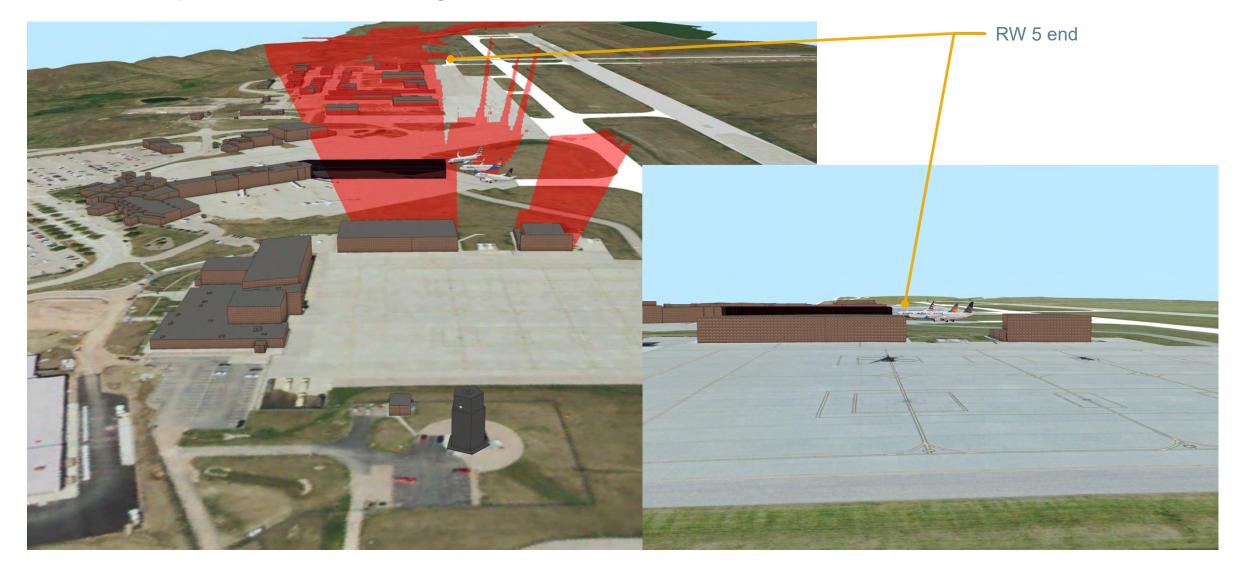
AIRSPACE – PART 77 ANALYSIS

Preferred Option Part 77



ATCT LINE OF SIGHT STUDIES

Preferred Option ATCT Line of Sight – Full Build

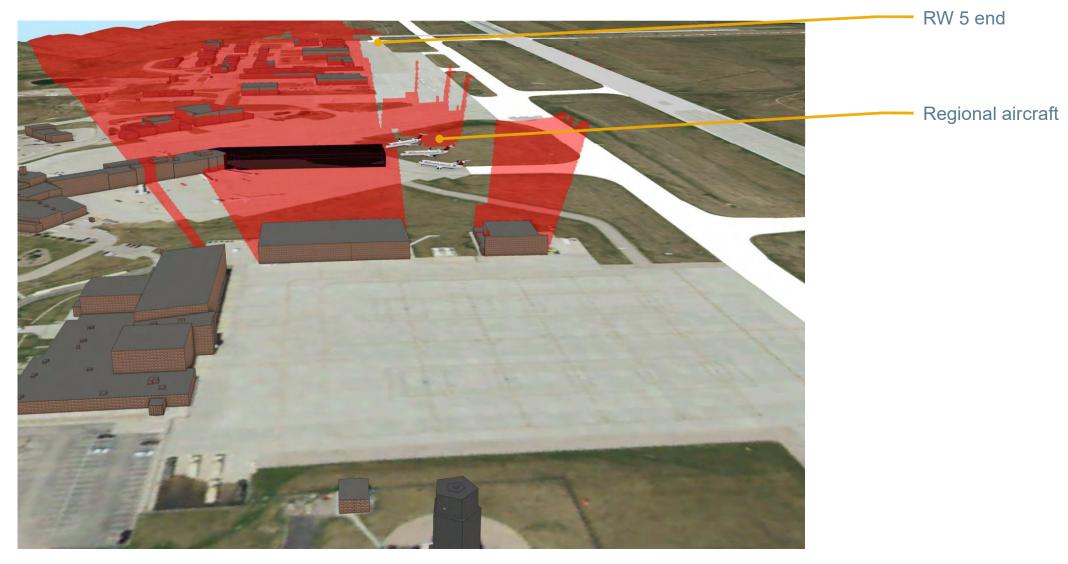






19 January 2021

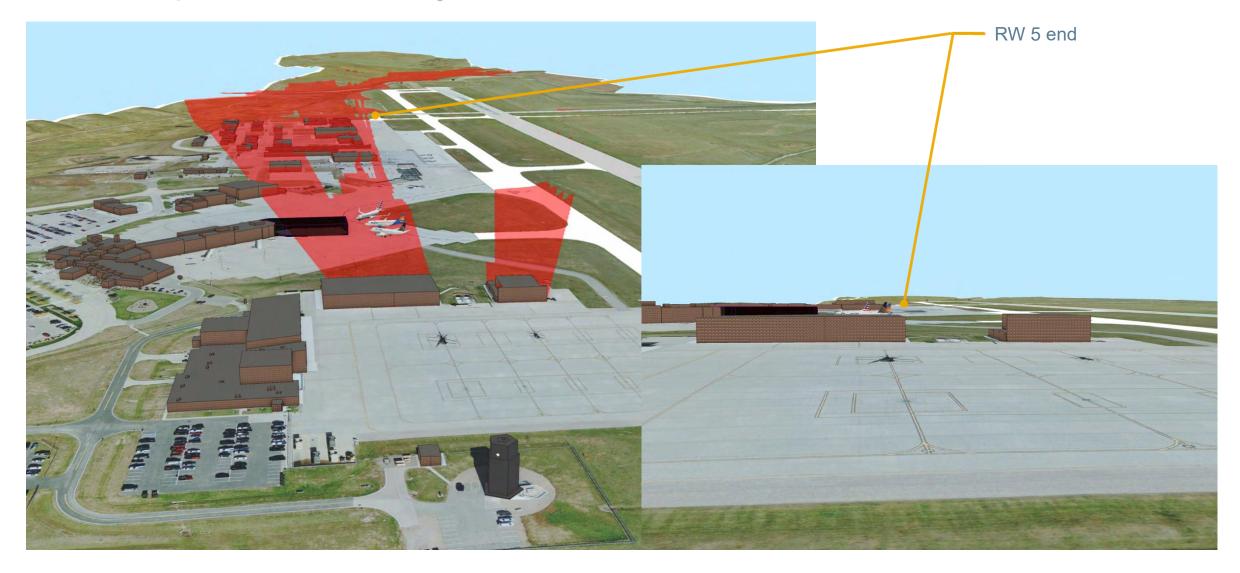
Preferred Option ATCT Line of Sight – Full Build







Preferred Option ATCT Line of Sight – Reduced Build

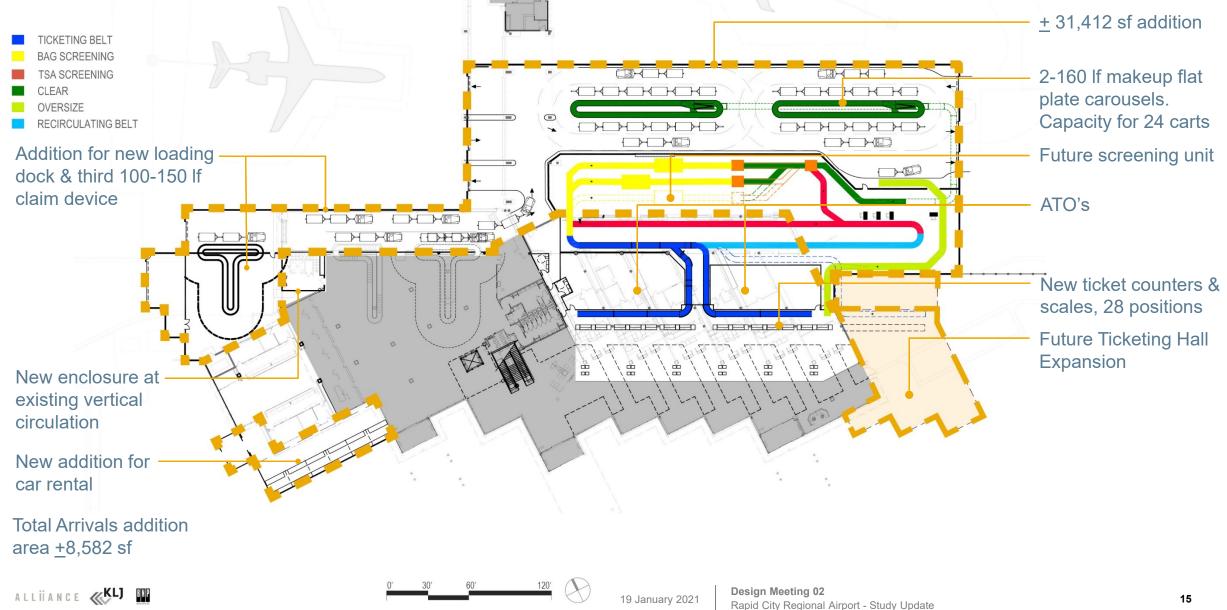




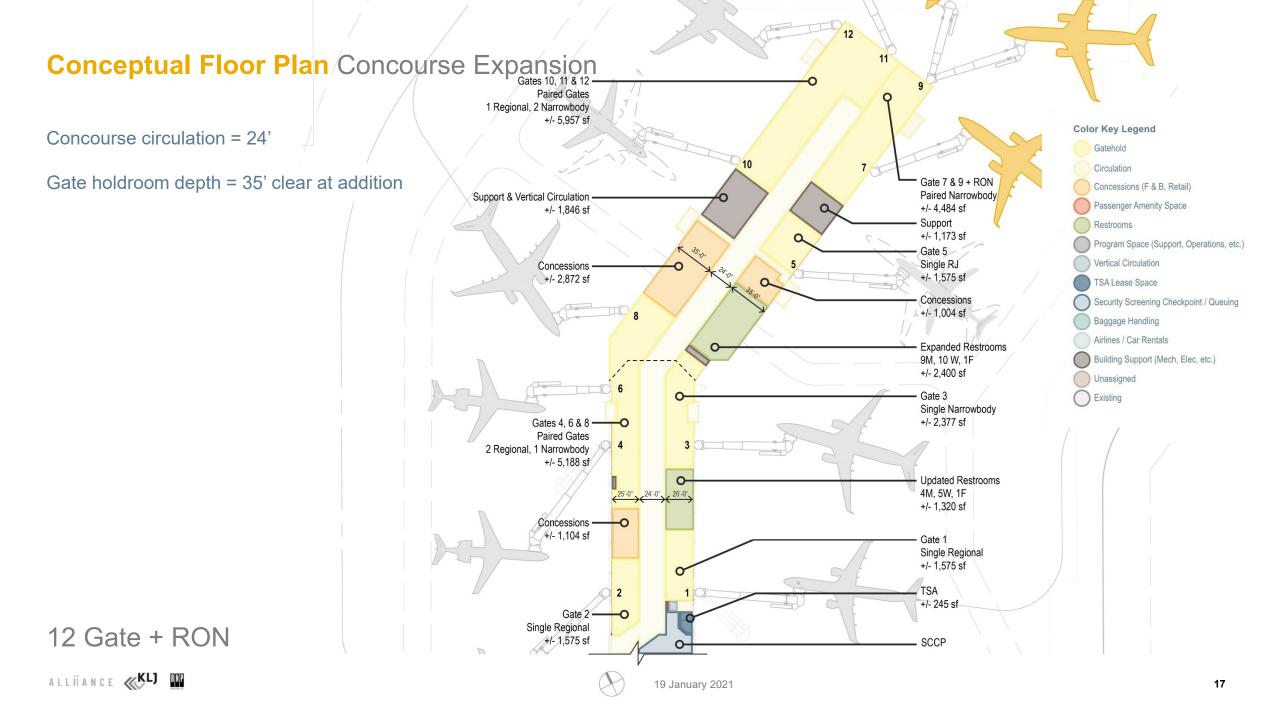


EDS BAGGAGE SCREENING, BAGGAGE CLAIM, & RENTAL CAR

Preferred Options EDS Option A.4, Baggage Claim & Rental Car Option A.1



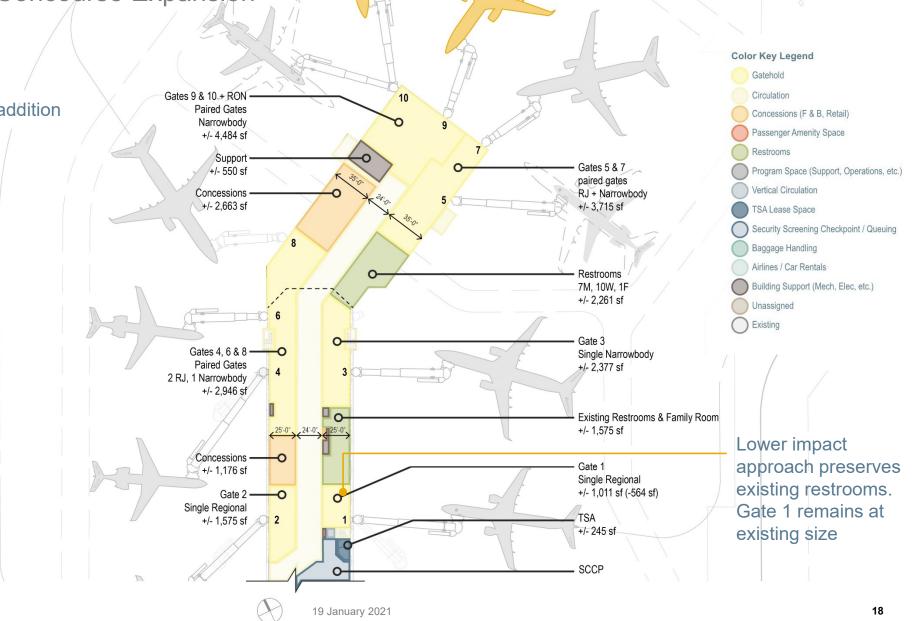
CONCEPTUAL FLOOR PLAN REVIEW



Conceptual Floor Plan Concourse Expansion

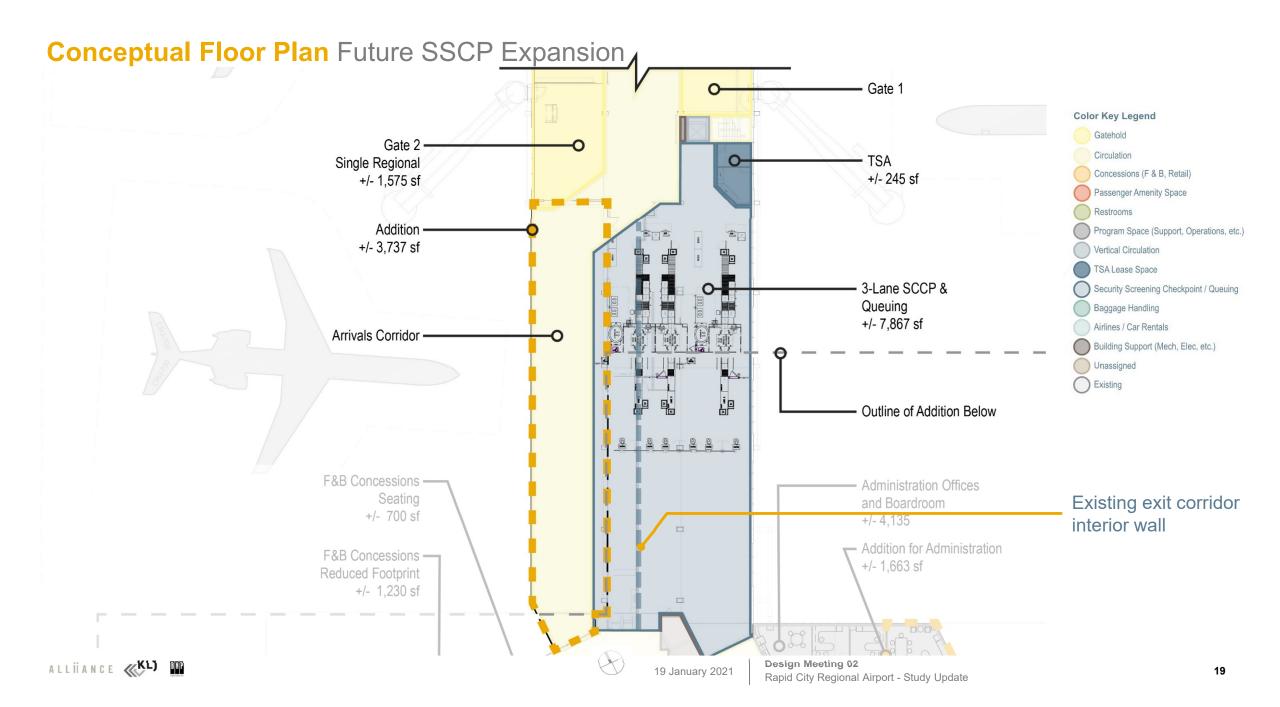


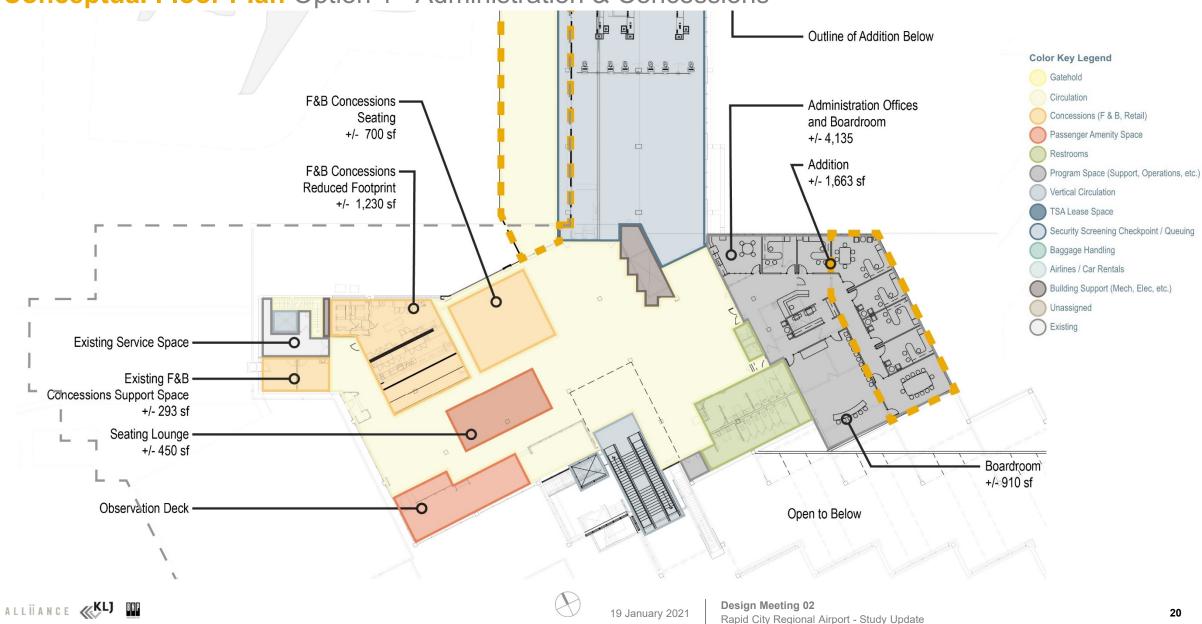
Gate holdroom depth = 35' clear at addition



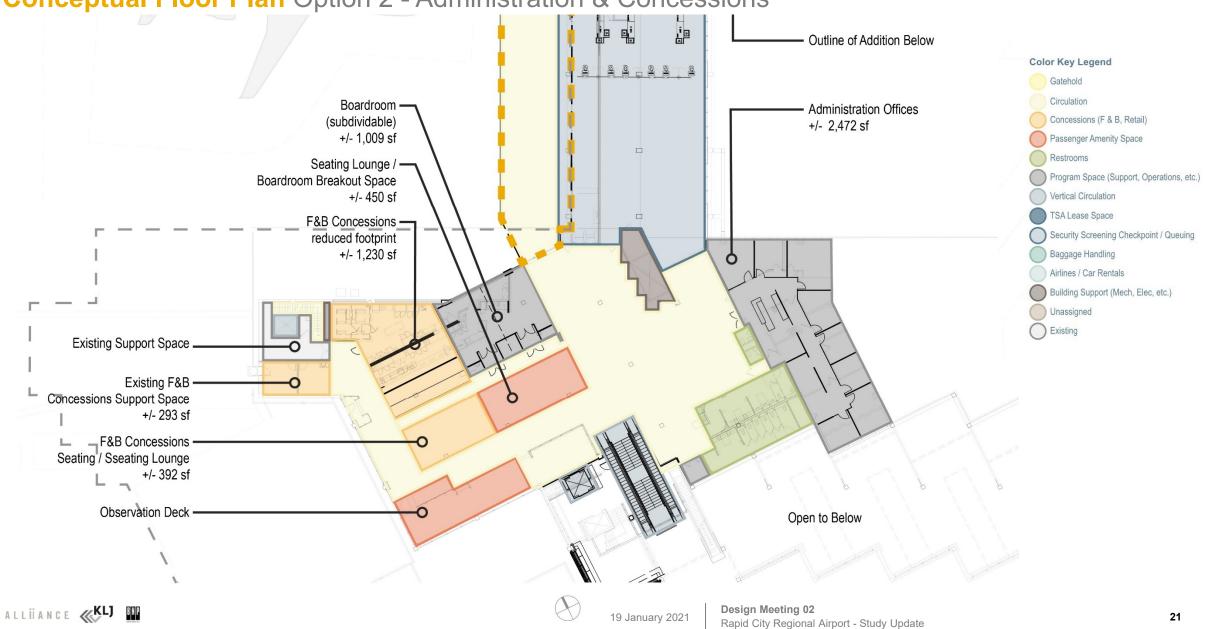
10 Gate + RON

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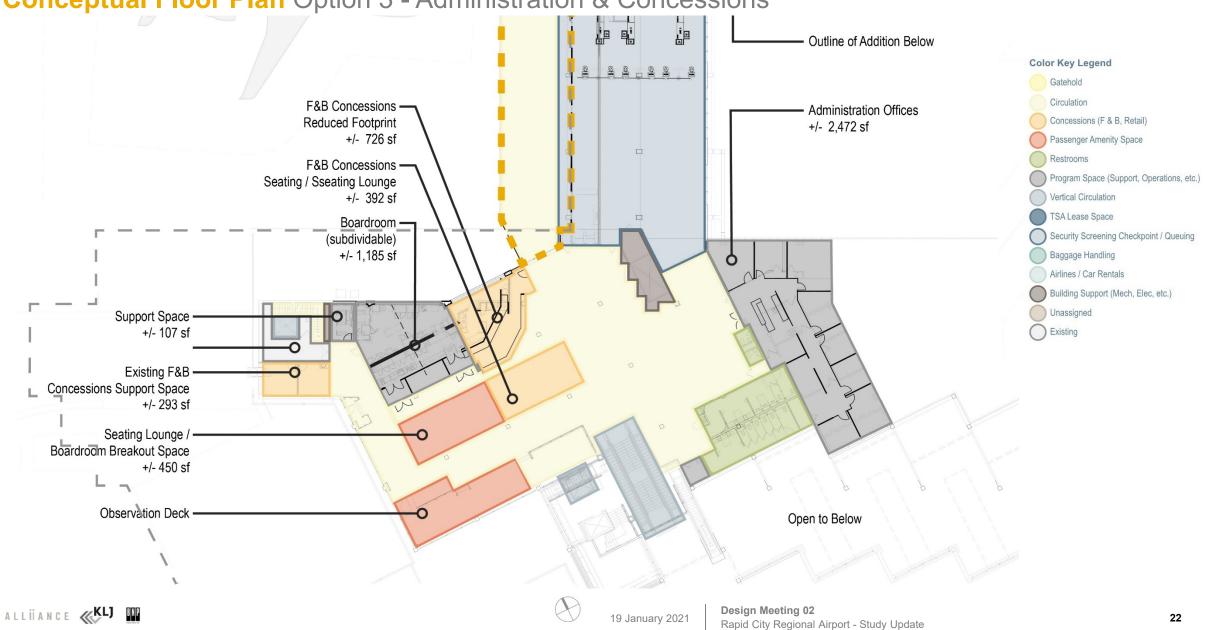




Conceptual Floor Plan Option 1 - Administration & Concessions



Conceptual Floor Plan Option 2 - Administration & Concessions



Conceptual Floor Plan Option 3 - Administration & Concessions

3D MASSING & SECTION STUDIES

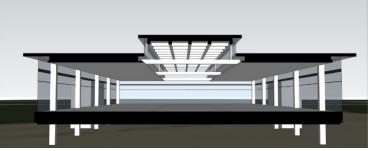
3D Massing Studies Option 1

Benchmark Elevation: 100' = 3164.70

Part 77 Max Height: 3225' (60' above benchmark elevation)

Current conditions: Roof at end of concourse \pm 29'-5" Clerestory at end of concourse \pm 36'-1"

Max roof height in massing studies \pm 40'-0"





3D Massing Studies Option 2

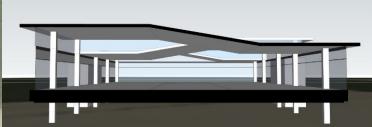
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THANK YOU

