

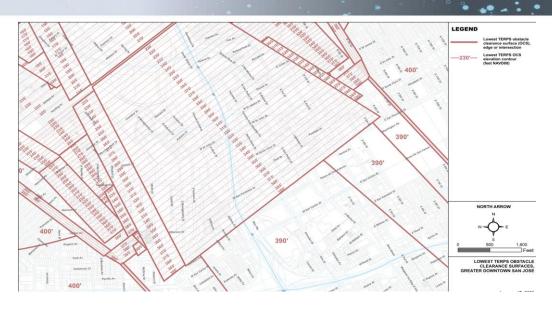
CONSTRUCTION CRANE HEIGHT GUIDANCE STUDY

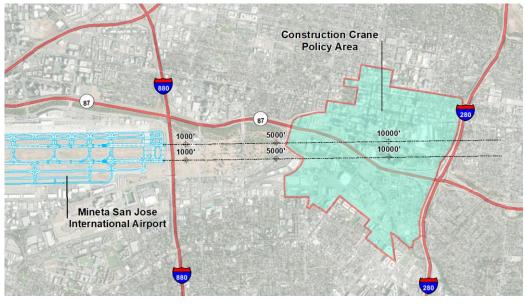
Downtown Airspace and Development Capacity (DADCS)

- Adopted new Building Height Limits
- Develop Construction Crane Guidelines

FAA Airspace Protection

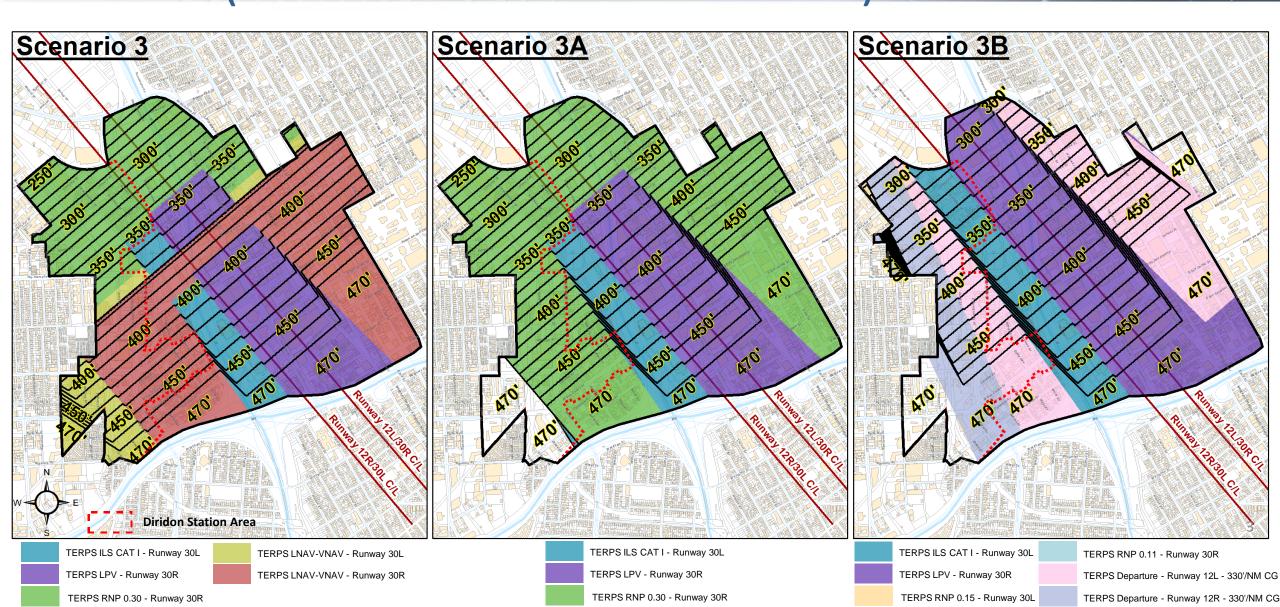
- Temporary Cranes regulated by FAA through Part 77 / TERPS Review Process
- Temporary cranes impact SJC's approach/departure procedures
- FAA does not protect for One Engine Inoperative (OEI)





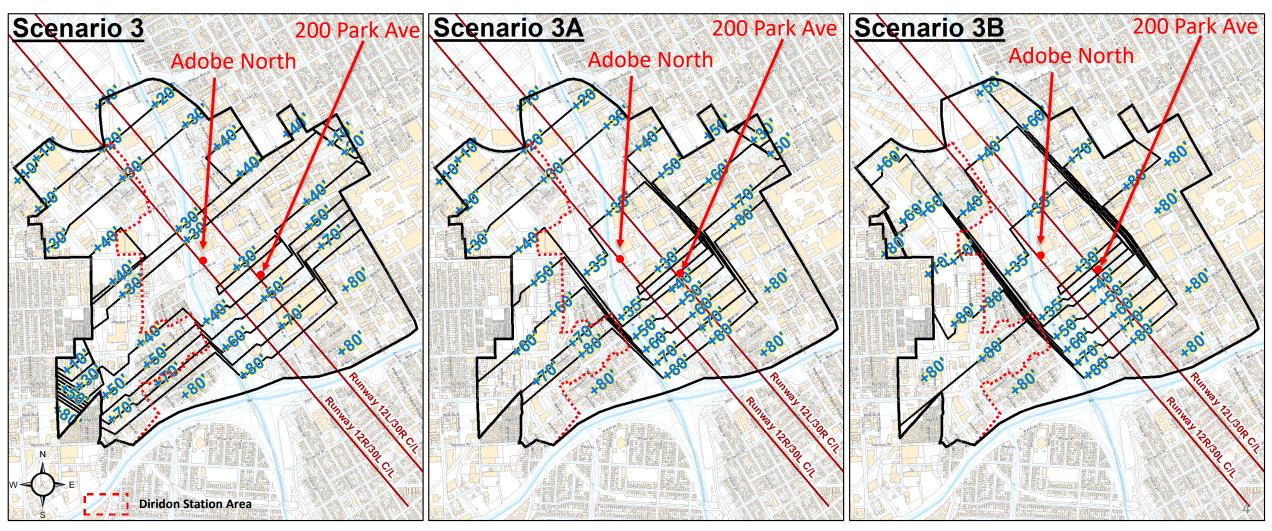
SCENARIOS 3-3A-3B CRANE PROTECTION HEIGHTS (SIDE-BY-SIDE COMPARISON)





SCENARIOS 3-3A-3B CRANE HEIGHT DIFFERENTIAL TO BUILDING HEIGHTS







Progression from Scenario 3 to 3B: largest height increases in the Diridon Station Area, East Downtown, minor height increases in central Downtown directly below SJC's Runway centerlines.

AIR SERVICE IMPACTS SUMMARY

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Cargo Penalty

(lbs.)

9,780-10,500

21,020-21,390

38,060-38,630

Cargo Penalty

(lbs.)

0 - 40

0-40

0 - 40

B777-300ER (370 seats)

B737-800 (175 seats)

Pax Penalty

0

0

0

Pax Penalty

9-13

9-13

13-17

Europe (Frankfurt)

Hawaii

B787-9 (290 seats)

A321 NEO (189 seats)

Pax Penalty

37-46

60-69

120-128

Pax Penalty

0-2

0-2

0-5

Cargo Penalty

(lbs.)

370-2,970

370-2,970

370-2,970

Cargo Penalty

(lbs.)

580-1,640

580-1,640

580-2,290

FOR R	UNWAY 12L		
	Asia (Beijing)		

Cargo Penalty

(lbs.)

Cargo Penalty

(lbs.)

840-2,390

840-2,390

840-2,390

B777-300ER (370 seats)

B737-800 (175 seats)

Pax Penalty

0

0

0

Pax Penalty

0

0

0

New York (Transcon)

Cargo Penalty

(lbs.)

10,210-10,430

21,250-21,940

37,360-39,710

Cargo Penalty

(lbs.)

1,070-2,130

1,070-2,130

1,960-3,010

B787-9 (290 seats)

A320-200 (150 seats)

Pax Penalty

83-84

105-106

162-163

Pax Penalty

0-7

0-7

4-11

Scenarios

Scenario 3

Scenario 3A

Scenario 3B

Scenarios

Scenario 3

Scenario 3A

Scenario 3B

FAA PROTECTION & IMPACTS



- FAA's responsibility to protect critical air carrier instrument procedures (TERPS surfaces)
 - FAA issuance of "Determination of No Hazard" for temporary cranes
 - FAA may require obstruction lighting and marking

- Airlines and Development Community both impacted by Construction Crane Heights
 - Potential Air Service impacts on Transcontinental, Hawaii, and International Flights during South Flow Operations (13% annual average)
 - Developers to follow Construction Crane Height Guidance Document

CRANE HEIGHT GUIDANCE DOCUMENT



- Airport will coordinate with PBCE to prepare "Crane Height Guidance Document"
 - Attach to all City development permits in Downtown San Jose and Diridon Station Areas
- Construction Crane Height Guidance document for Developers
 - 1. Utilize Crane jumps to ensure crane at maximum height for shortest period of time
 - 2. Cranes at maximum heights for 6 months
 - 3. Schedule highest heights during non-South flow months (April-September)
- Airport exploring Landing Fee Reduction Program
 - Landing Fee Reduction Program for Air Carriers that incur passenger and cargo weight impacts from downtown crane operations