Level 2 & 3 Alternatives Screening Results 85 CORRIDOR IMPROVEMENTS & CORRIDOR & CORRIDOR IMPROVEMENTS



Level 2

US 85 PEL Alternatives Screening

		Level 2 Alternatives									
	Full Corridor	Highlands Ranch Parkway (HRP) to C-470					Titan to HRP		SH 67 to Titan		
							B1 - Improved	B2 - Improved			
	No Action -		A2 - Expresswa	y A3 - Split Pair	A4 - Split Pair		US 85 w/ ¾	US 85 w/ Right	C1 - 4 Lane US 85		
# Level 2 Screening Criteria	FEIS Alternative	A1 - Expressway	w/ Access Optic	ns Eastside of RR	Westside of RR	A5 - Bypass	Movements	in/Right out	w/ Access Options		
1 Provides Long-term Capacity & Operational Solution	Unsatisfactory	Unsatisfactory	Good	Fair	Fair	Good	Unsatisfactory	Fair	Fair		
2 Results in Improved Travel Safety	Unsatisfactory	Poor	Good	Good	Good	Good	Poor	Good	Fair		
3 Provides Reasonable Access	Fair	Unsatisfactory	Fair	Poor	Unsatisfactory	Good	Poor	Poor	Fair		
4 Expands Multi-Modal Options for All People	Poor	Fair	Fair	Good	Fair	Good	Fair	Fair	Fair		
5 Accommodates Land Use Goals & Plans	Unsatisfactory	Poor	Poor	Poor	Poor	Poor	Fair	Fair	Fair		
6 Enhances Life/Safety for NW Douglas Co. Residents	Unsatisfactory	Poor	Fair	Fair	Fair	Fair	Fair	Fair	Fair		
7 Supports the Preservation of the Environment	Fair	Poor	Unsatisfactory	Unsatisfactory	Unsatisfactory	Unsatisfactory	Poor	Poor	Poor		
8 Creates a Sustainable Solution	Good	Unsatisfactory	Poor	Poor	Poor	Poor	Poor	Poor	Poor		
9 Ensures Implementation	Good	Poor	Poor	Fair	Unsatisfactory Fair		Fair	Fair	Fair		
Advance Alternative to Level 3?	Yes	No	Yes	Yes	No	Yes	No	Yes	Yes		
Cl Cl Cl Cl SG W O O		li c	ii n e		long-te capacit access, safety,	ostly , and	Doesn't meet P&N by not adequately improving travel safety or providing long-term operationa capacity, but logical as an interim condition.	criter	afety, and sed over		

Note: These are the DRAFT results of the Project Team's alternative development, criteria evaluation and screening process. These results will not be finalized until after review and comment by FHWA, CDOT, the public and other project stakeholders.



Level 3

US 85 PEL Alternatives Screening

		Level 3 Mainline Alternatives						Level 3 Interchange Alternatives					
	Full Corridor	Full Corridor Highlands Ranch Parkway (HRP) to C-4					Titan Interchange			Airport Road			
# Level 3 Screening Criteria	No Action - FEIS Alternative*	Enhanced Expressway	1-way Pair	Bypass	Titan to HRP	SH 67 to Titan	Continuous Flow	Partial Cloverleaf	Directional Ramp	At-Grade	Grade Separated		
Mainline or Interchange LOS	Poor	Good	Good	Good	Good	Good	Good	Unsatisfactory	Good	Fair	Good		
Peak hour cross-street LOS and delay	Unsatisfactory	Fair	Poor	Fair	N/A**	Fair	N/A***	N/A***	N/A***	Poor	N/A**		
2 Roadway crash reduction	Unsatisfactory	Fair	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor		
Distance for out-of-direction travel	Good	Good	Poor	Good	Poor	Good	Good	Good	Good	Good	Good		
Bicycle/Pedestrian comfort level	Unsatisfactory	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good		
Protects existing land uses	Good	Poor	Unsatisfactory	Unsatisfactory	Fair	Fair	Fair	Unsatisfactory	Fair	Fair	Fair		
Average travel time (emergency response)	Poor	Good	Poor	Good	Good	Fair	Good	Good	Good	Fair	Good		
Park property and open space impacts	Good	Poor	Poor	Poor	Poor	Good	Poor	Poor	Poor	Good	Good		
Wetlands and waterways impacts	Good	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor		
Prairie dog town impacts	Good	Good	Poor	Poor	Good	Good	Good	Good	Good	Good	Good		
Accommodates wildlife crossing needs	Poor	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good		
Reduction of throw-away - compatible w/ existing	Good	Good	Unsatisfactory	Good	Good	Good	Good	Good	Good	Good	Poor		
Construction costs	Good	Good	Fair	Poor	Good	Good	Good	Good	Fair	Good	Poor		
Maintenance of traffic during construction	Good	Poor	Good	Good	Poor	Poor	Good	Good	Good	Poor	Good		
Advance Alternative?	Yes	Yes	No	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes		
	_			_		•	_			•	•		
Rationale Baseline conditio			Excessive out-of- direction travel, not compatible with existing investment, and longer average travel time compared to the other alternatives.	a	Operationally acceptable with no insatisfactory impa		No unsatisfactory impacts, but direct ramp option is saf provides more cap	tional st er and w	fainline and cross- creet LOS acceptable with no unsatisfactory npacts.	redu oper asso conf acco	er suited for ction of delay and ations/safety ciated with railroad ict, and better mmodates future uses.		
	travel tim	and average and more le with existing		LOS acceptabl appropriate tr and maximize the existing fa	avel time, acc s use of un	erationally eptable with no satisfactory impacts.	נ נ ו ו	mpacts to existing lan ises too high, and insatisfactory peak iour cross-street LOS ind delay.	S	upports both existin nd future land uses.	g		

Note: These are the DRAFT results of the Project Team's alternative development, criteria evaluation and screening process. These results will not be finalized until after review and comment by FHWA, CDOT, the public and other project stakeholders, and additional value engineering.

* The FEIS Alternative includes 6 lanes with auxiliary lanes, additional access controls, and bicycle and pedestrian facilities

**All local access is right in/right out.

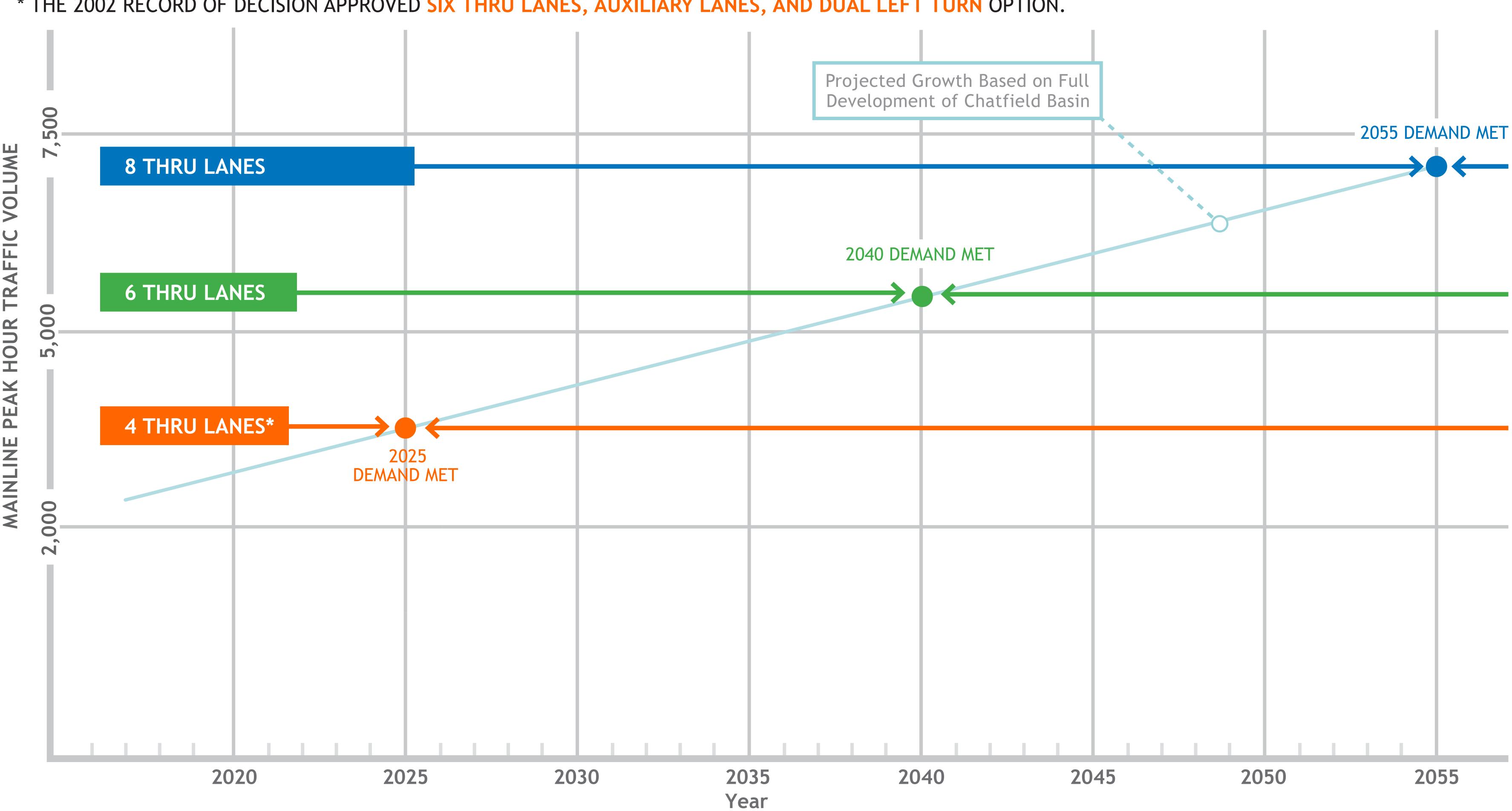
***N/A- Cross-street LOS and delay are analyzed as part of the interchange LOS condition.



DEMAND AND CAPACITY COMPARISON

HIGHLANDS RANCH PKWY TO C-470 COMPARISON

* THE 2002 RECORD OF DECISION APPROVED SIX THRU LANES, AUXILIARY LANES, AND DUAL LEFT TURN OPTION.



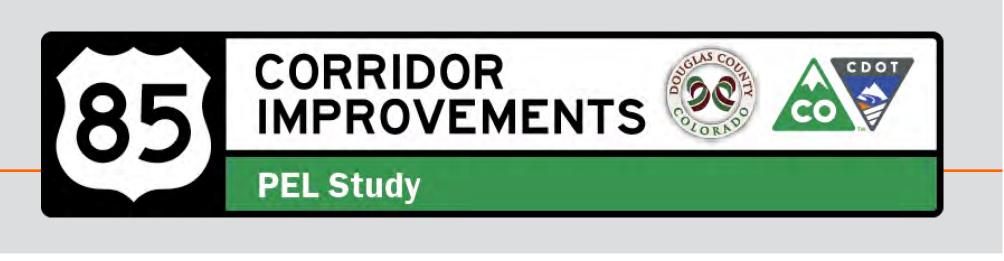
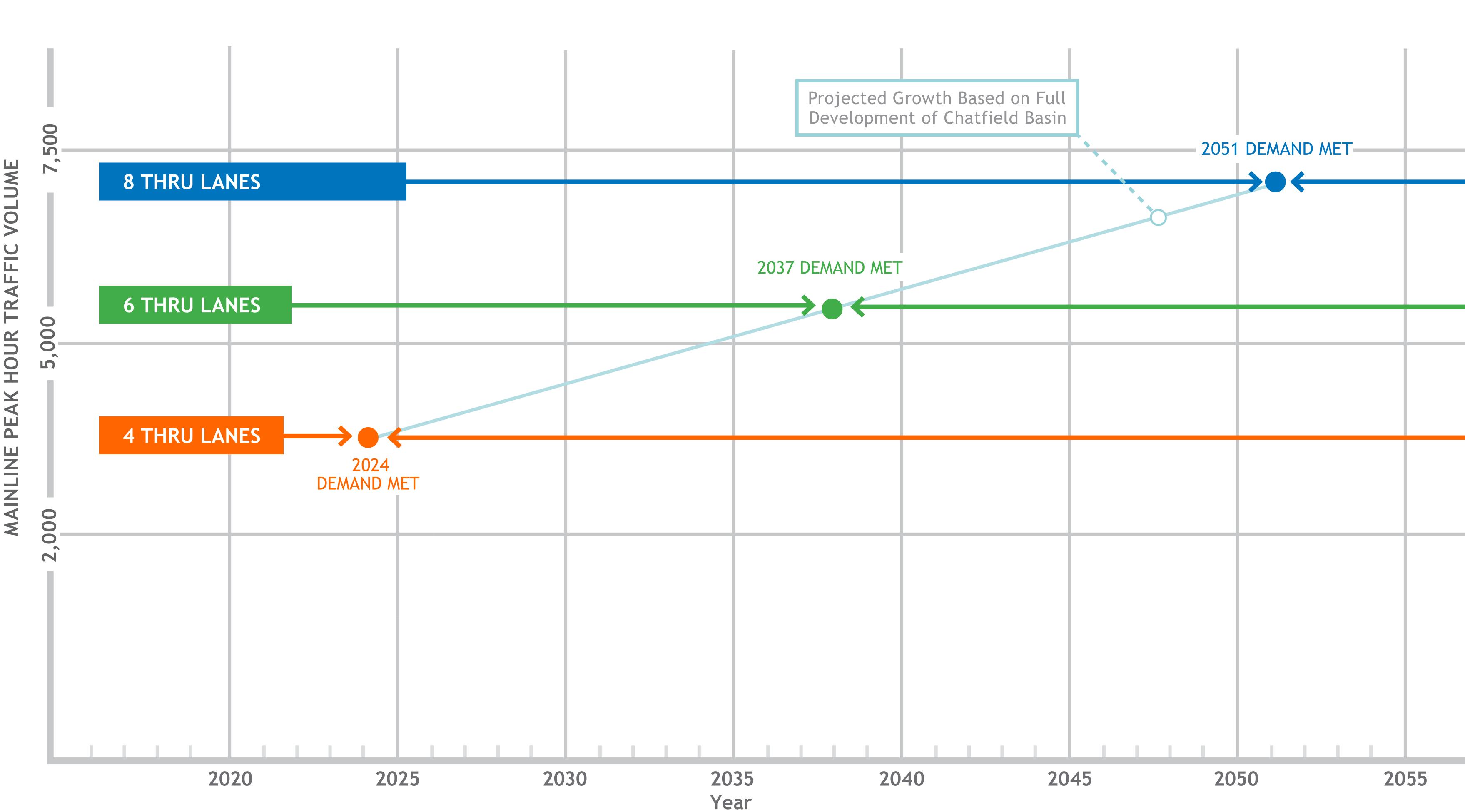


FIGURE PROVIDES COMPARISON OF HOW DIFFERENT US-85 IMPROVEMENTS CARRY TRAFFIC GROWTH EXPECTED WITH FULL DEVELOPMENT OF CHATFIELD BASIN

DEMAND AND CAPACITY COMPARISON

TITAN PKWY TO HIGHLANDS RANCH PKWY



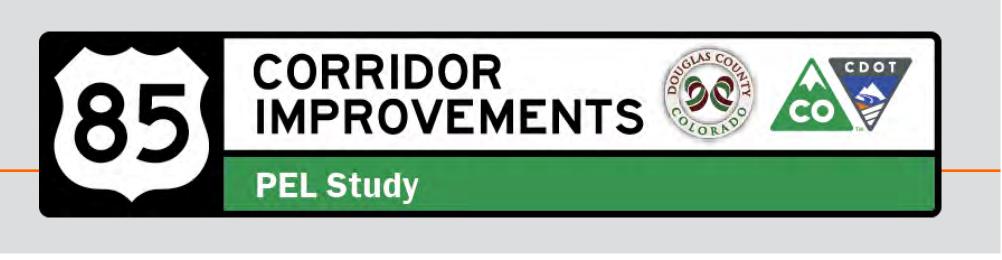
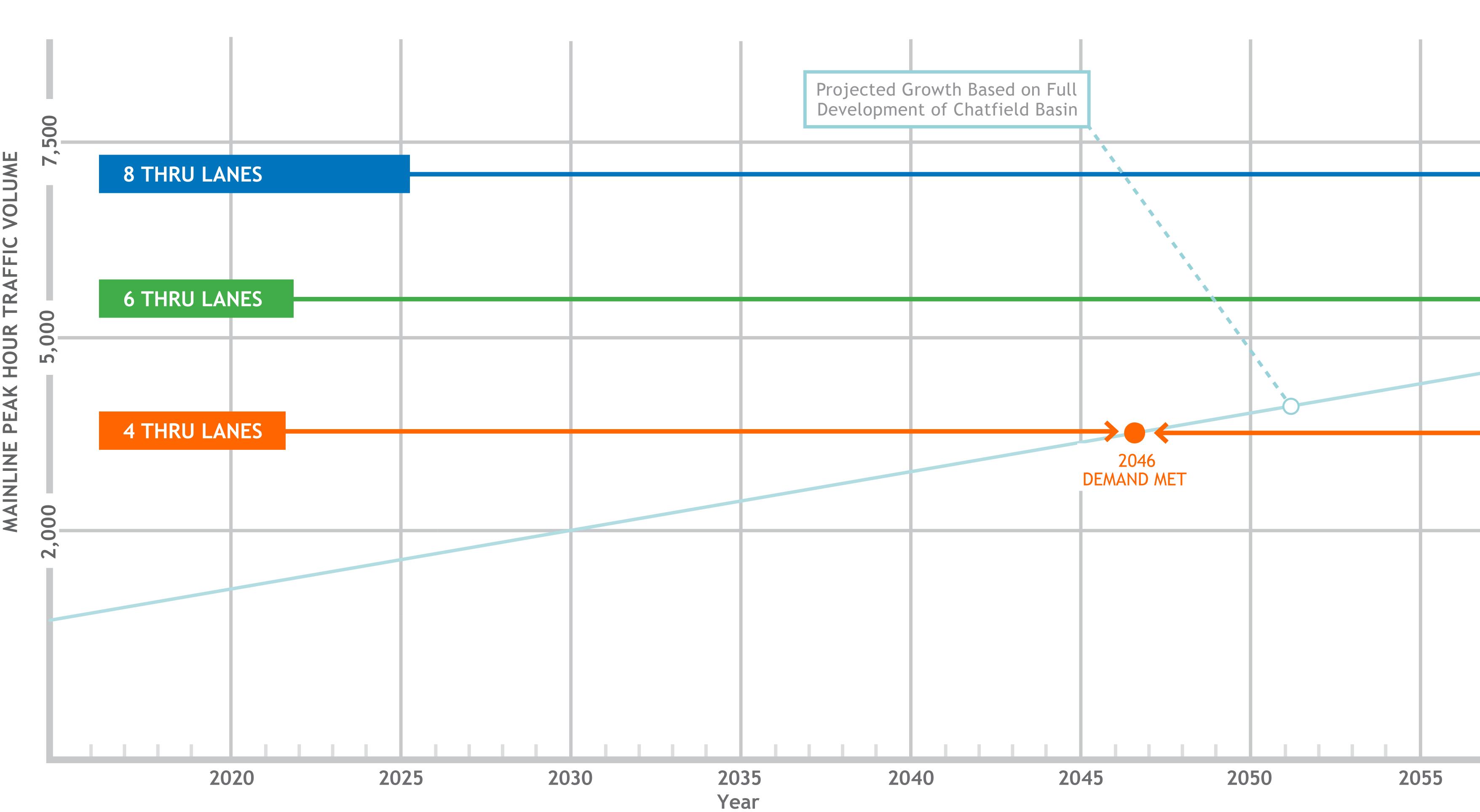


FIGURE PROVIDES COMPARISON OF HOW DIFFERENT US-85 IMPROVEMENTS CARRY TRAFFIC GROWTH EXPECTED WITH FULL DEVELOPMENT OF CHATFIELD BASIN

DEMAND AND CAPACITY COMPARISON

SH-67 TO TITAN



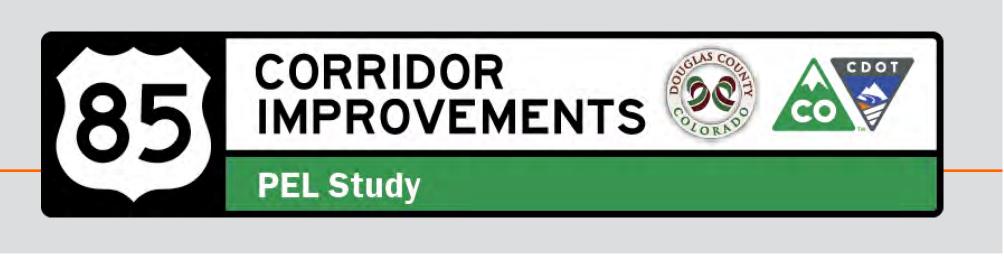


FIGURE PROVIDES COMPARISON OF HOW DIFFERENT US-85 IMPROVEMENTS CARRY TRAFFIC GROWTH EXPECTED WITH FULL DEVELOPMENT OF CHATFIELD BASIN

C-470 to Dad Clark Gulch





WORK IN PROGRESS APRIL 7th, 2016



Highlands Ranch Pkwy to C-470: Bypass 85 CORRIDOR IMPROVEMENTS E &



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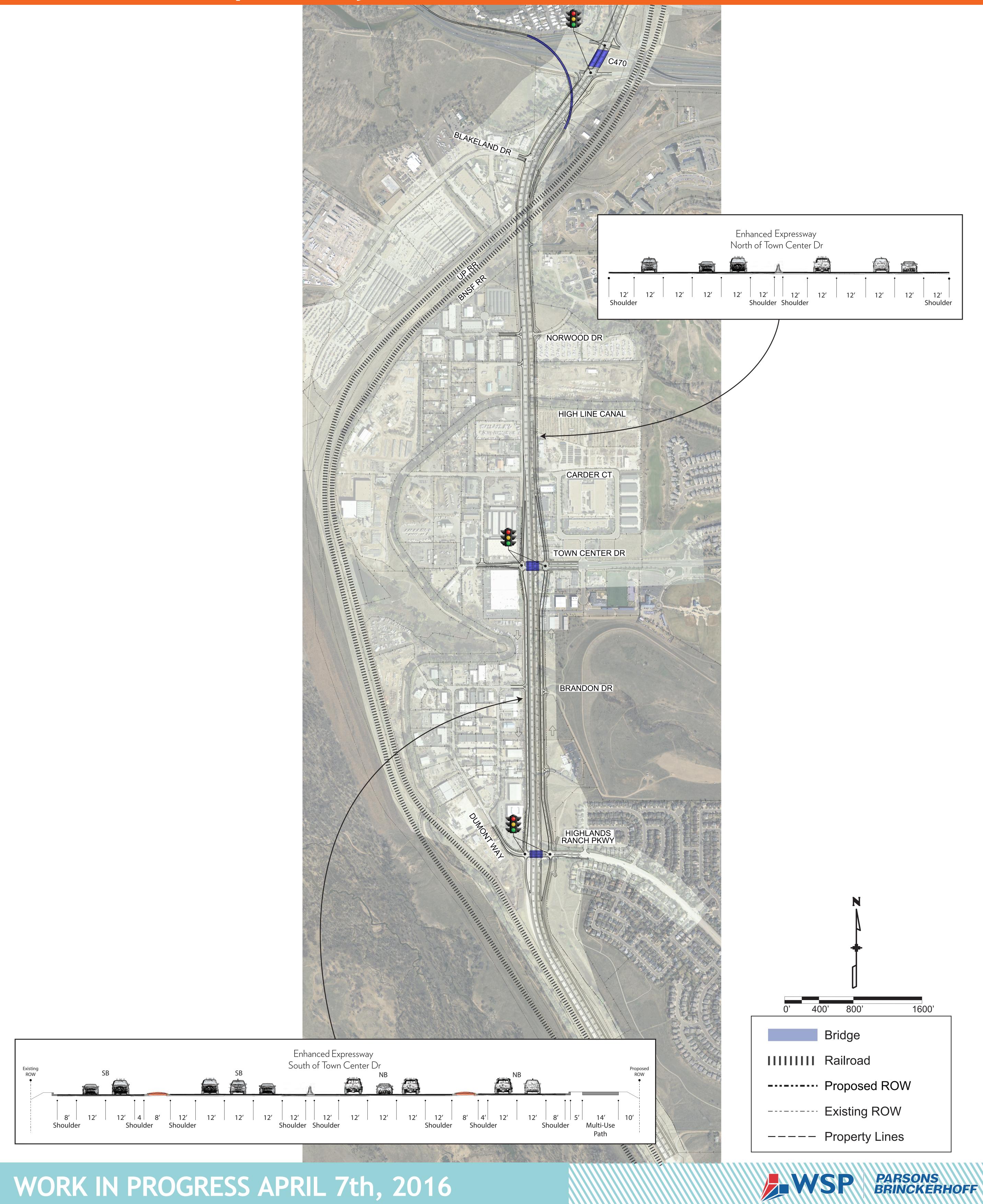




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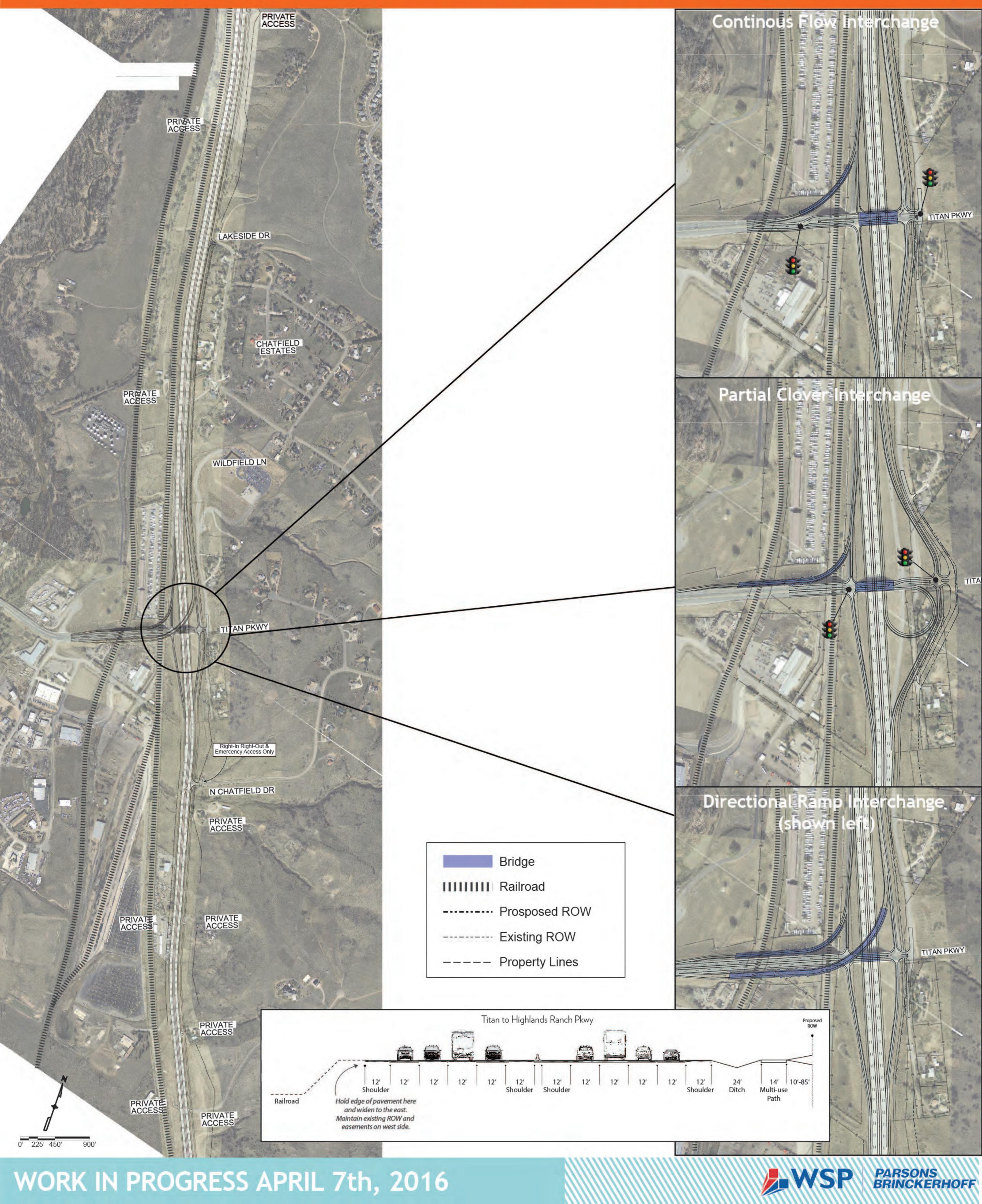
Highlands Ranch Pkwy to C-470: Enhanced Expressway



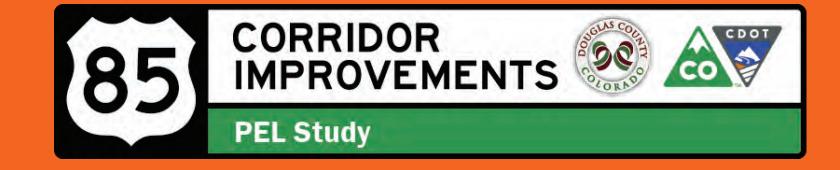


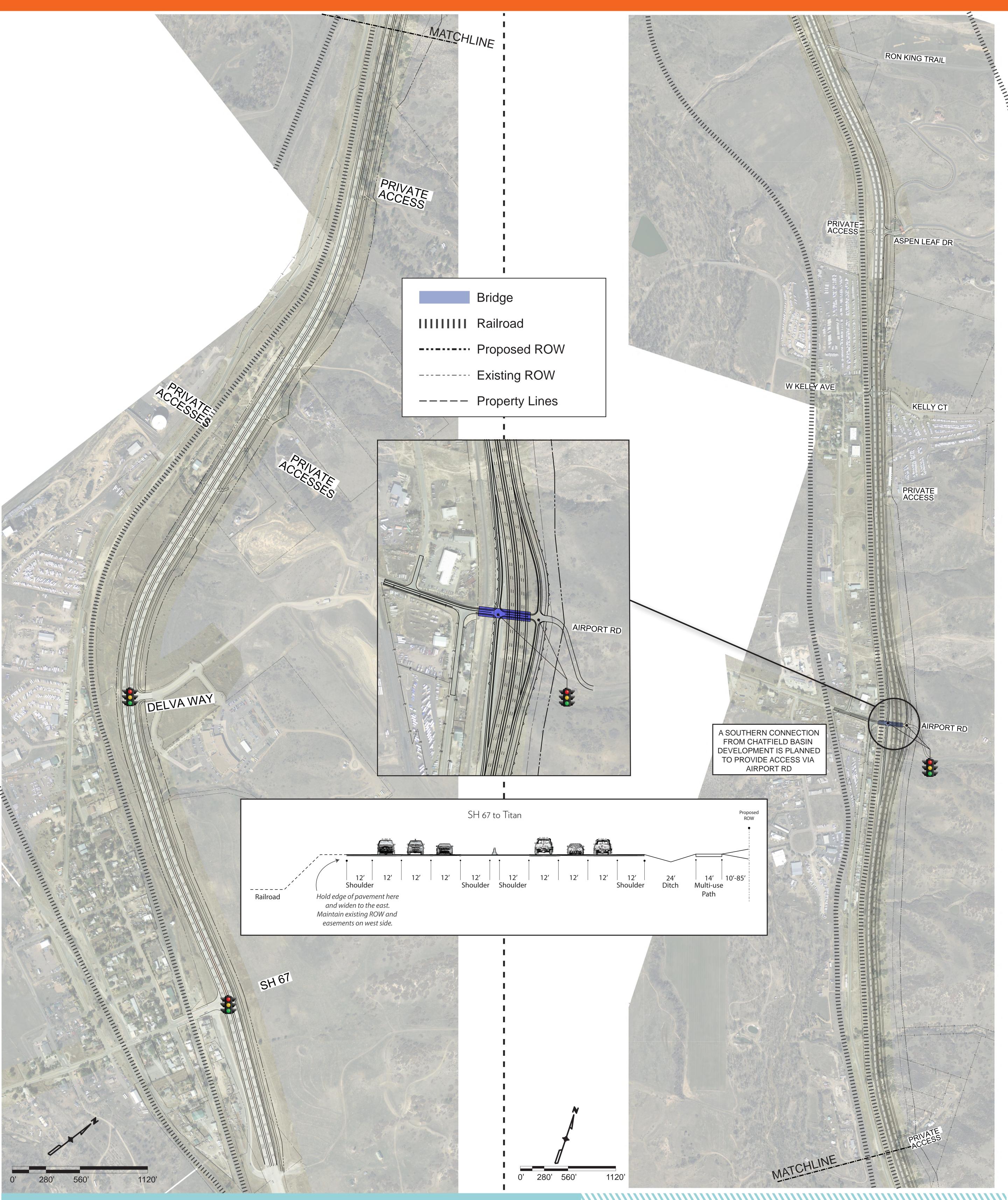
Titan to Highlands Ranch Pkwy





SH 67 to Titan





WORK IN PROGRESS APRIL 7th, 2016

