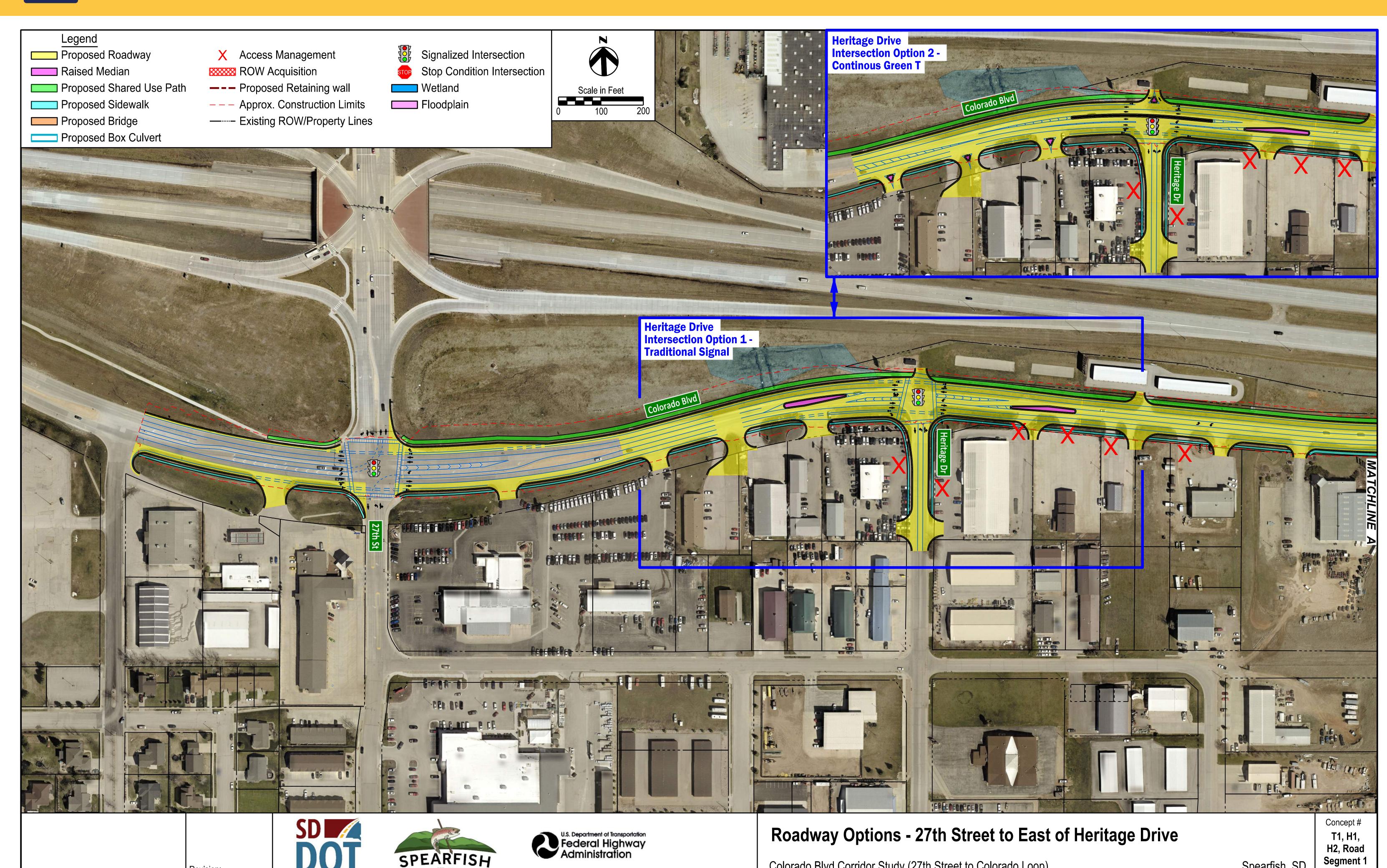
HERITAGE DRIVE

Segment 1

Spearfish, SD

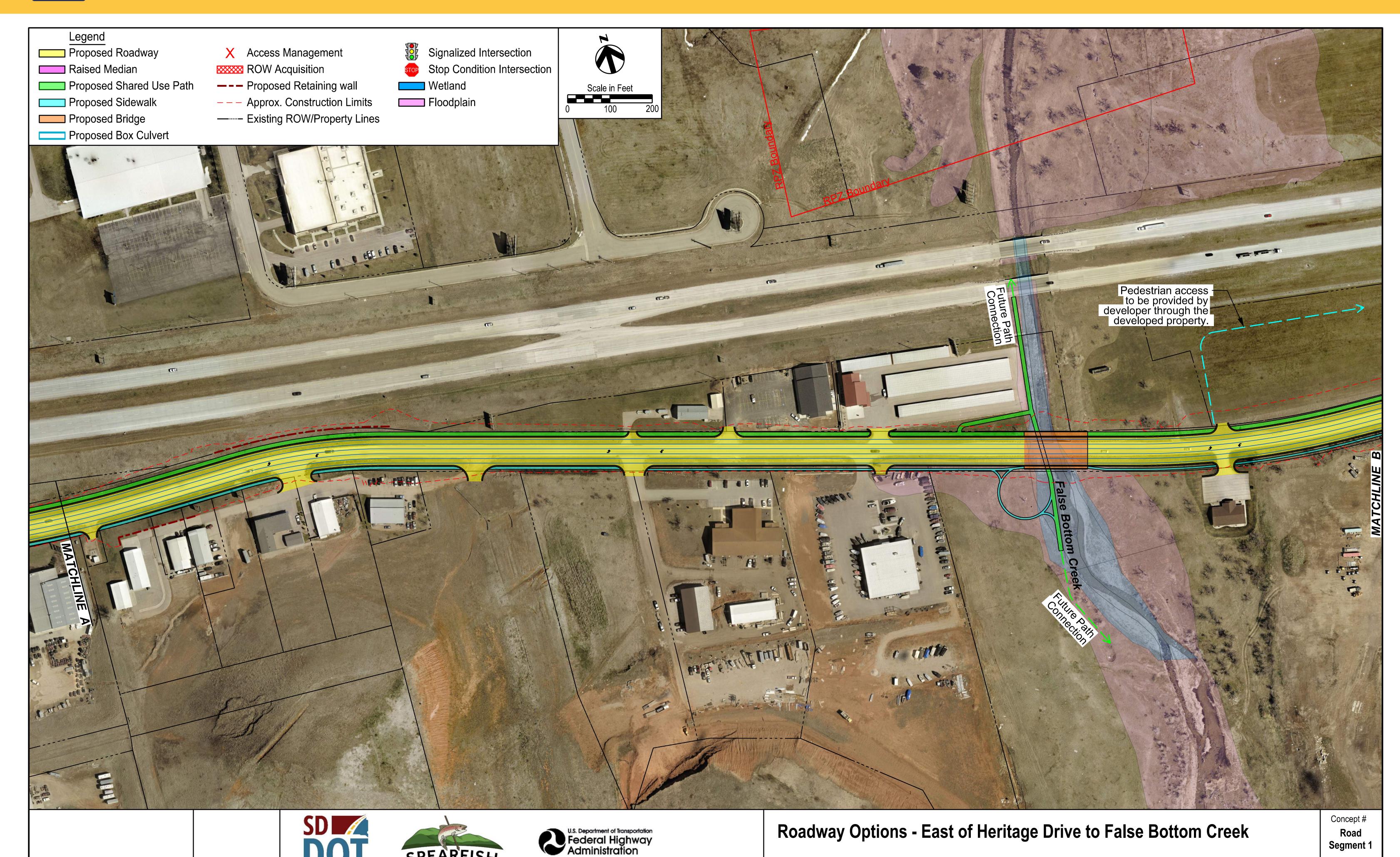


Colorado Blvd Corridor Study (27th Street to Colorado Loop)

SPEARFISH

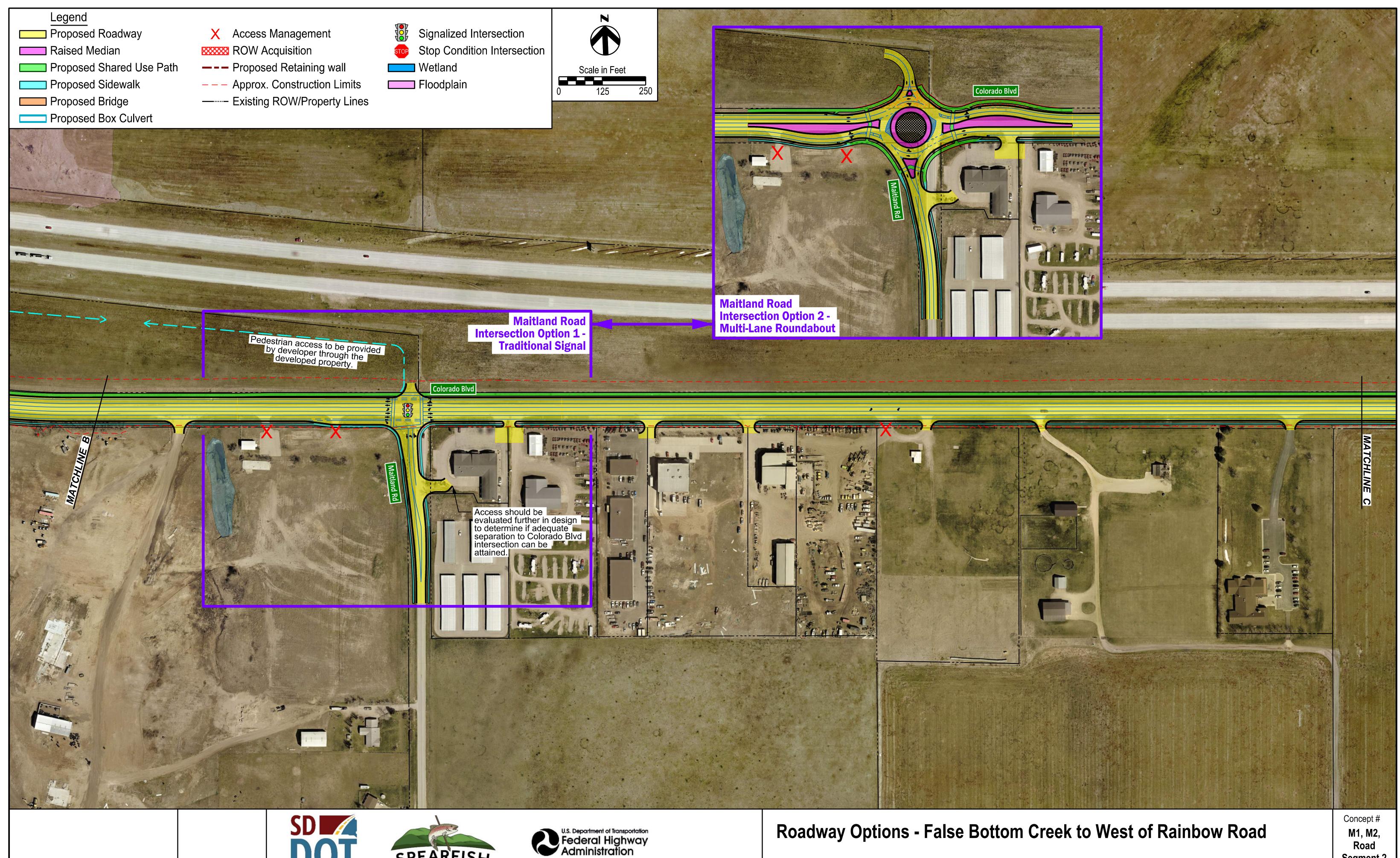
CORRIDOR

Spearfish, SD



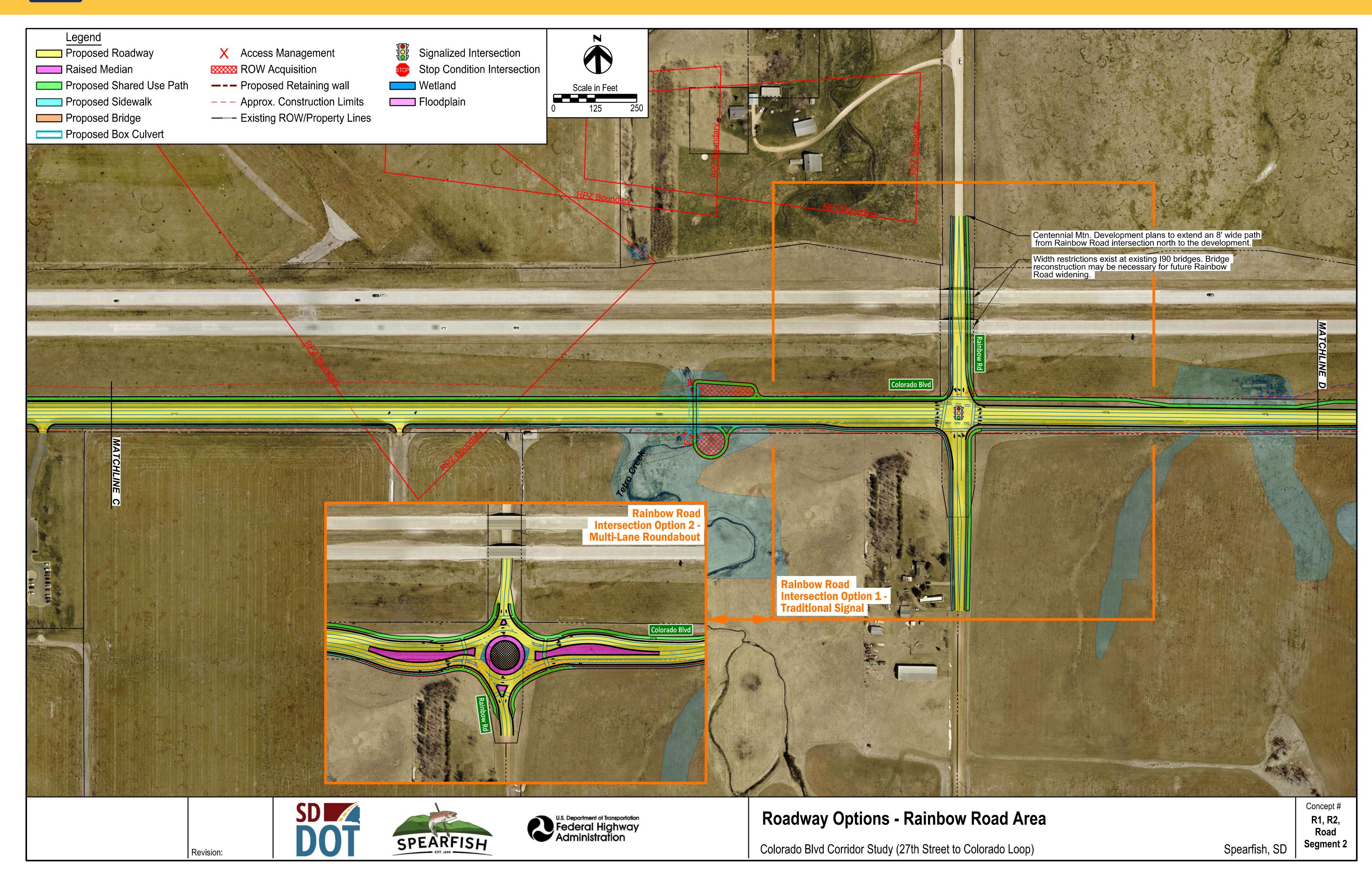
Colorado Blvd Corridor Study (27th Street to Colorado Loop)

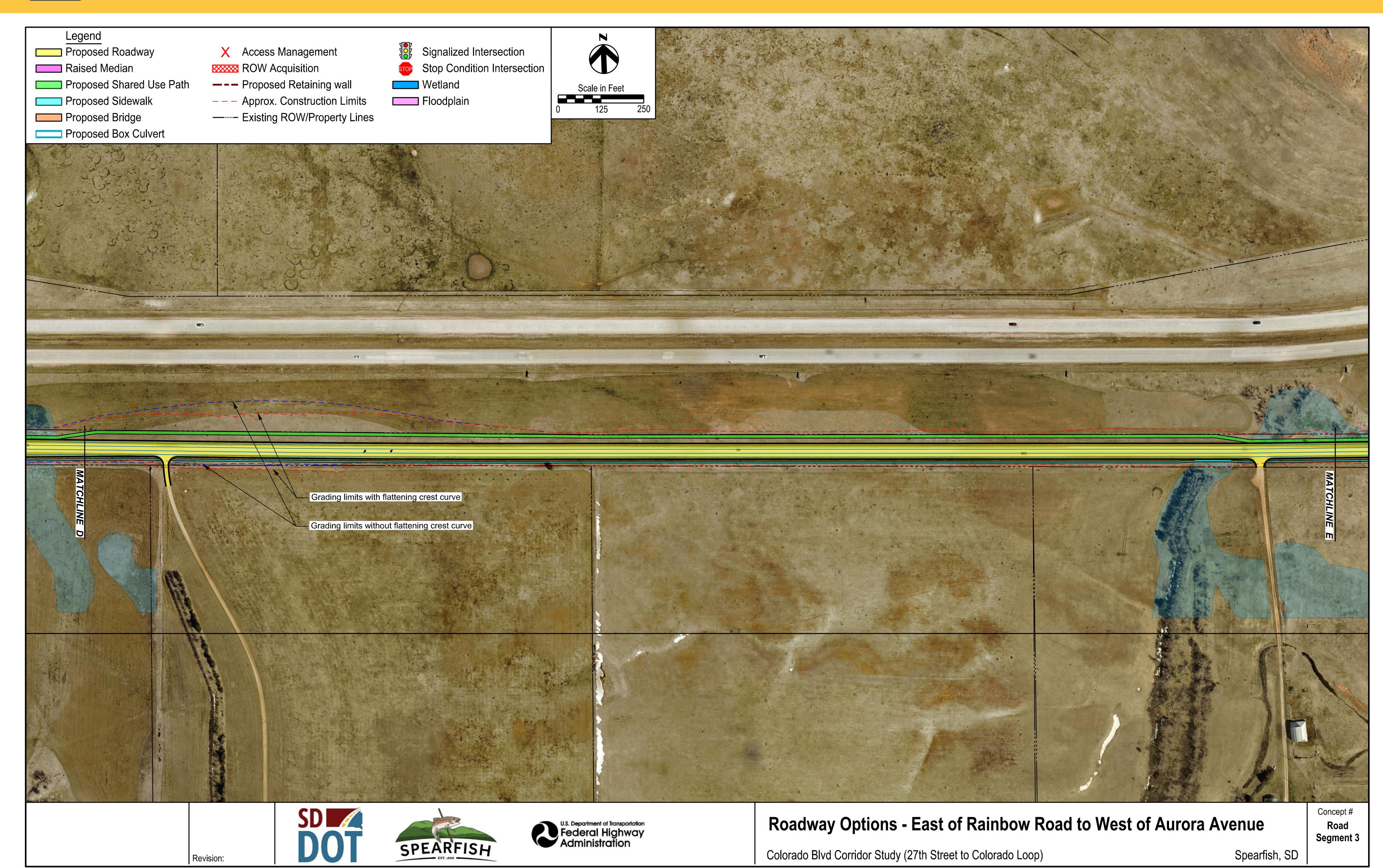
MAITLAND ROAD

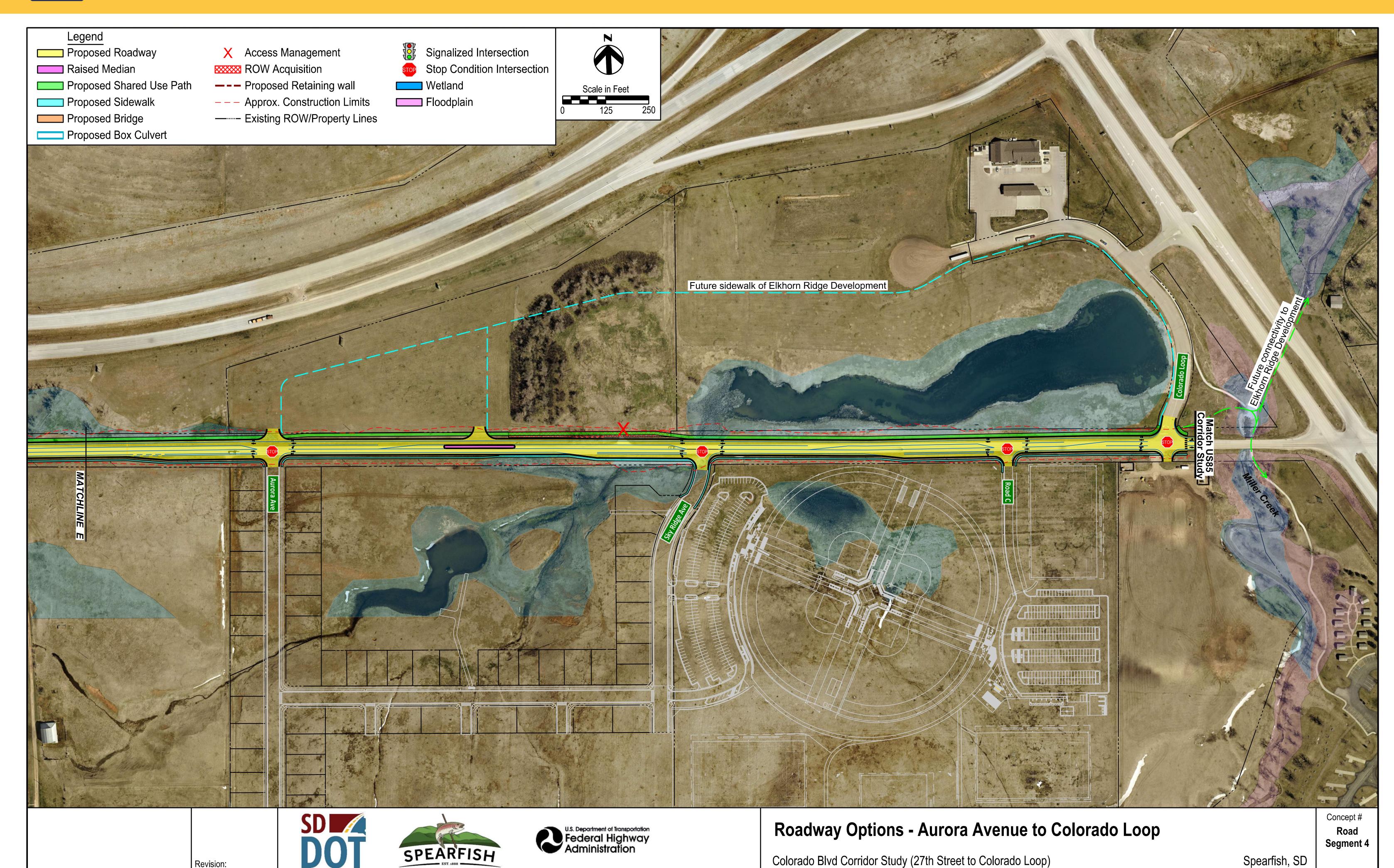


SPEARFISH

RAINBOW ROAD







INTERSECTION COMPARATIVE MATRIX





Intersection	Option No. &	2050 Traffic Operations			Comparative Construction Costs (2)		ROW Needs		etland pacts	Private Business Access Restrictions	Other Considerations
	Description	Level of Service (AM/PM)	Percent Change in Crashes (1)		\$2023		Acres		cres	No. of Drives	
27th St Intersection	Traditional Signal with Capacity Improvements	C/C	-5%		\$1.4 M		0.00		0.01	-	A Leading Pedestrian Interval (LPI) can be added to enhance pedestrian safety. Signal operations would operate with slightly more delay but still operate at an acceptable LOS C threshold.
Heritage Dr Intersection	Option 1 - Traditional Signal	B/A	-34%		\$2.5 M		0.02		0.00	RIRO at 2 drive	Provides opportunity for passenger cars to turn around. Familiar intersection type. Pedestrian crosswalk across both Colorado Blvd and Heritage Dr.
	Option 2 - Continuous Green Tee	B/B	-39%		\$2.5 M		0.02		0.00	RIRO at 5 drives	Operates with more delay than signalized intersection. Presents a potential weaving issue due to the close proximity between the Heritage Drive and 27th Street intersections Pedestrian crosswalk only across Heritage Dr. More restrictions on surrounding private driveways.
Maitland St Intersection	Option 1 - Traditional Signal	B/A	-6%		\$2.2 M		0.00		0.06	-	Familiar intersection type.
	Option 2 - Roundabout	A/A	-18% to +3%		\$2.7 M		0.00		0.07	RIRO at 1 drive	Provides opportunity for large trucks to turn around. Traffic calming. Reduced fatal and injury crashes compared to traditional signal. Crossing distances lower for pedestrians with splitter islands that allow pedestrians to focus on one direction at a time. Larger intersection footprint.
Rainbow Rd Intersection	Option 1 - Traditional Signal	B/B	-38%		\$3.8 M		0.00		0.00	-	NB/SB turn lanes needed on Rainbow Road at end of planning horizon. Requires I90 bridge replacements if turn lanes were added. Familiar intersection type.
	Option 2 - Roundabout	B/B	-38% to -23%		\$3.5 M		0.81		0.00	_	Provides opportunity for large trucks to turn around. Traffic calming. Reduced fatal and injury crashes compared to traditional signal. Crossing distances lower for pedestrians with splitter islands that allow pedestrians to focus on one direction at a time. Larger intersection footprint.

⁽¹⁾ Crash reduction based on a comparison with the no-build alternative over the evaluation period of 2027-2050. Roundabout intersections have a range of results since the proposed configuration is a hybrid of a single/multi-lane roundabout.

⁽²⁾ Includes north shared use path costs for comparative purposes.

RECREATION PATH COMPARATIVE MATRIX SPEARFISH





Path Segment	Segment Length (Miles)	Shared Use Path Side		Cost (\$/Mile)	R	OW Needs (Acres)	D	umber of rives/Ints rossed (1)	Wetland Impacts (Acres)	Floodplain Impacts (Acres)	Commentary
Segment 1 (27th Street to east of False Bottom)	0.9	North	•	\$ 2.5 M		0.02		6	0.13	0.31	Significantly less driveways and conflict points for bicyclists and pedestrians. ~\$500K more expensive than south option.
		South		\$ 1.9 M		0.02		16	0.07	0.35	Located on the side of the road with businesses and intersecting roads (therefore pedestrians only have to cross road at 27th Street). No need for sidewalk on the north side. This option better fits within the existing ROW Width.
		Off Alignment		\$ 2.0 M		(2)		10	(2)	(2)	Out of way travel required. Potentially lower level of ped/bike stress. Delayed construction since secondary E-W roadway is developer driven.
Segment 2 (east of False Bottom to Rainbow Rd)	1.3	North		\$ 1.0 M		0.83		3	0.88	0.08	Significantly less driveways and conflict points for bicyclists and peds. ~\$300K more expensive than south option.
		South		\$ 0.7 M		0.86		14	0.90	0.09	Located on the side of the road with businesses and intersecting roads. No need for sidewalk on the north side.
		Off Alignment		\$ 1.0 M		(2)		5	(2)	(2)	Out of way travel required. Potentially lower level of ped/bike stress. Delayed construction since secondary E-W roadway is developer driven.
Segment 3a (Rainbow Road to Aurora Ave)	0.9	North		\$ 1.0 M		0.00		1	0.78	ı	~\$300K more expensive than south option.
		South		\$ 0.7 M		0.00		5	0.70	-	Located on the side of the road with businesses and intersecting roads. No need for sidewalk on the north side.
		Off Alignment		\$ 1.0 M		(2)		3	(2)	(2)	Out of way travel required. Potentially lower level of ped/bike stress. Delayed construction since secondary E-W roadway is developer driven.
Segment 3b (Aurora Ave to Colorado Loop)	0.6	North		\$ 0.7 M		0.19		3	0.75	0.08	
		South		\$ 0.8 M		0.19		4	0.68	0.07	Located on the side of the road with businesses and intersecting roads. No need for sidewalk on the north side.
		Off Alignment North		\$ 1.1 M		(2)		4	(2)	(2)	Out of way travel required. Potentially lower level of ped/bike stress.
		Off Alignment South		\$ 2.0 M		(2)		5	(2)	(2)	Significant out of way travel required. Potentially lower level of ped/bike stress.

⁽¹⁾ includes future driveways and minor/major intersections

⁽²⁾ ROW and environmental impact data unavailable for the off-alignment options.

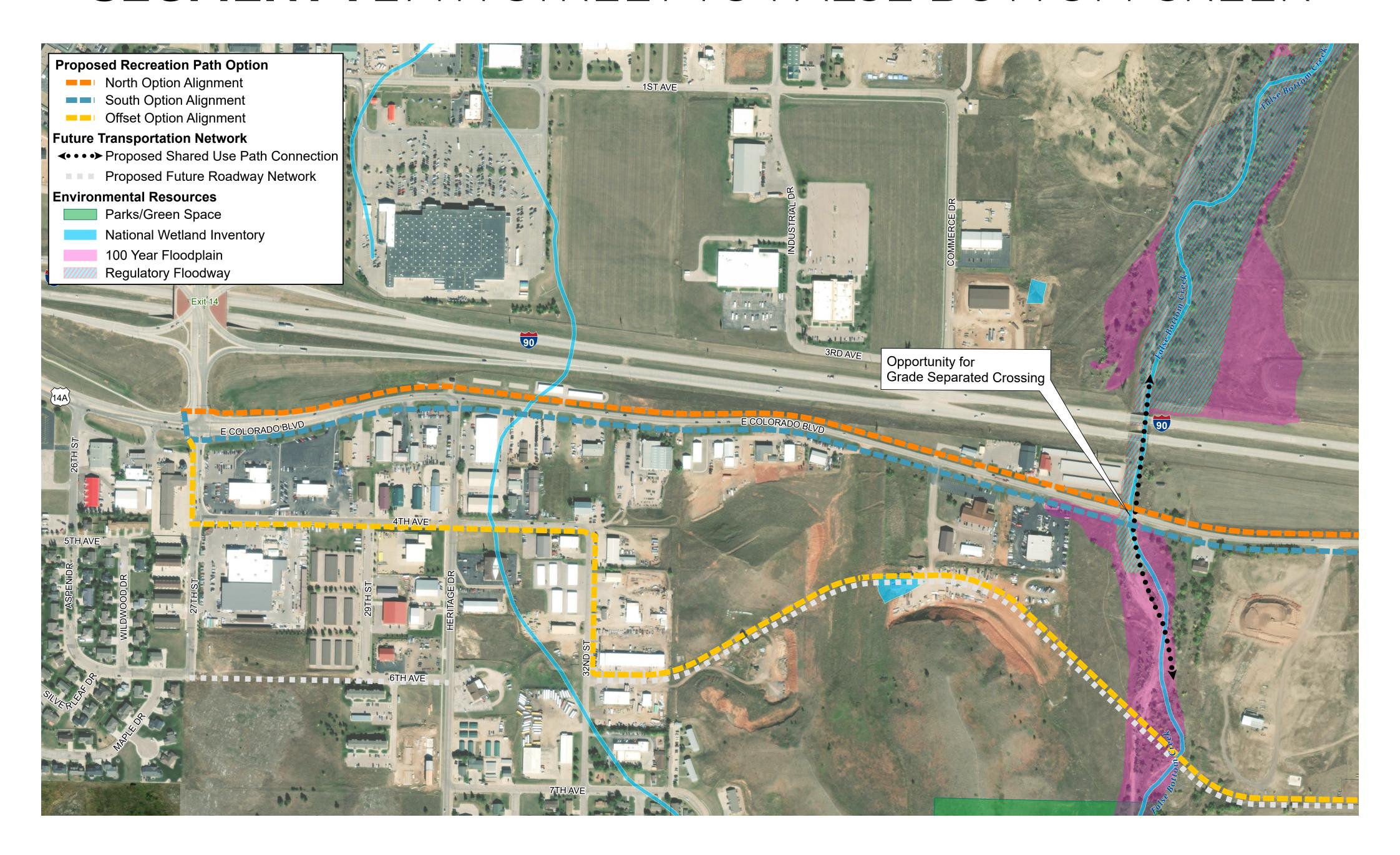
RECREATIONAL PATH ALIGNMENT OPTIONS



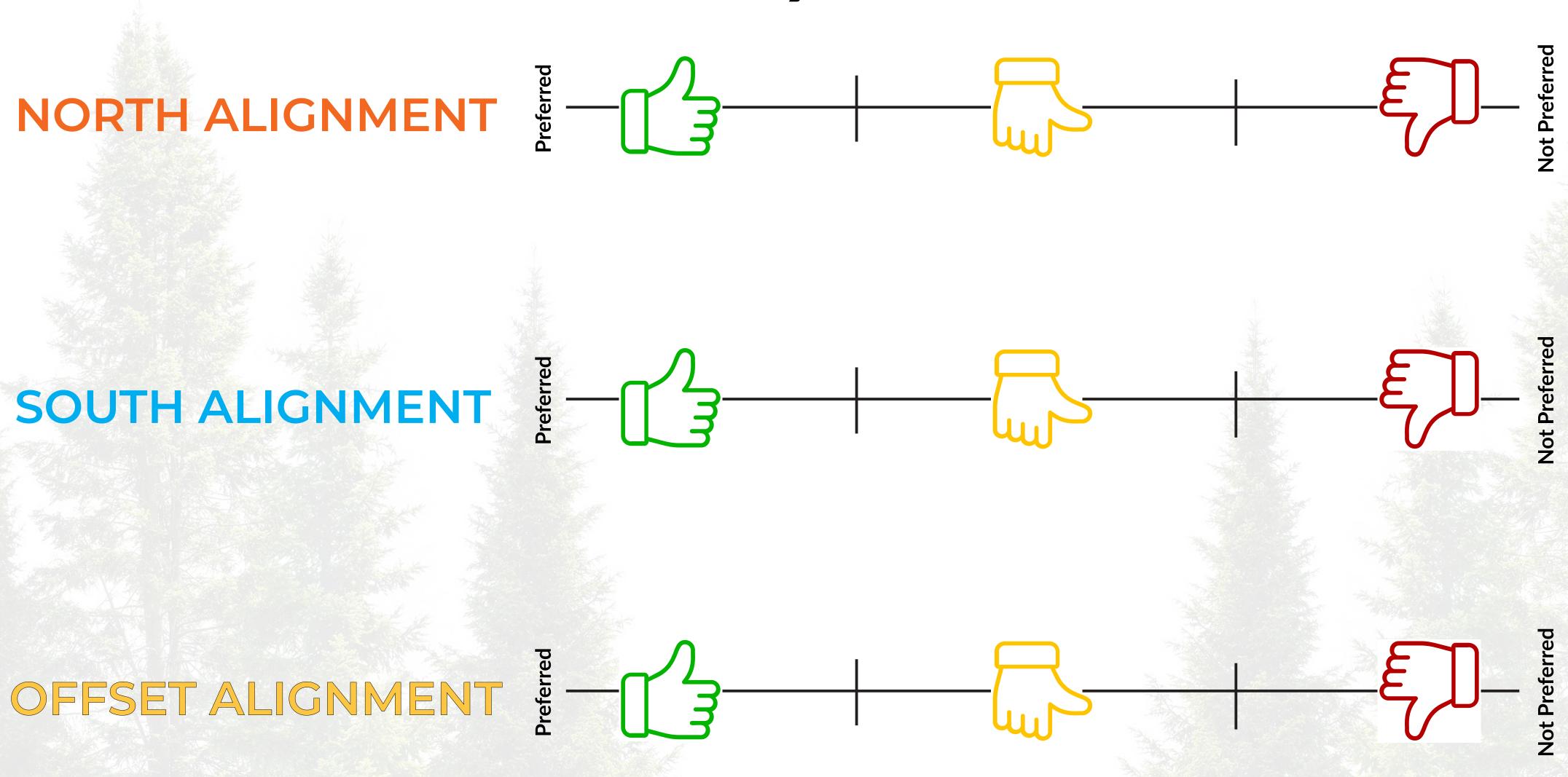


COLORADO BOULEVARD CORRIDOR STUDY

SEGMENT 1 27TH STREET TO FALSE BOTTOM CREEK



What do you think?



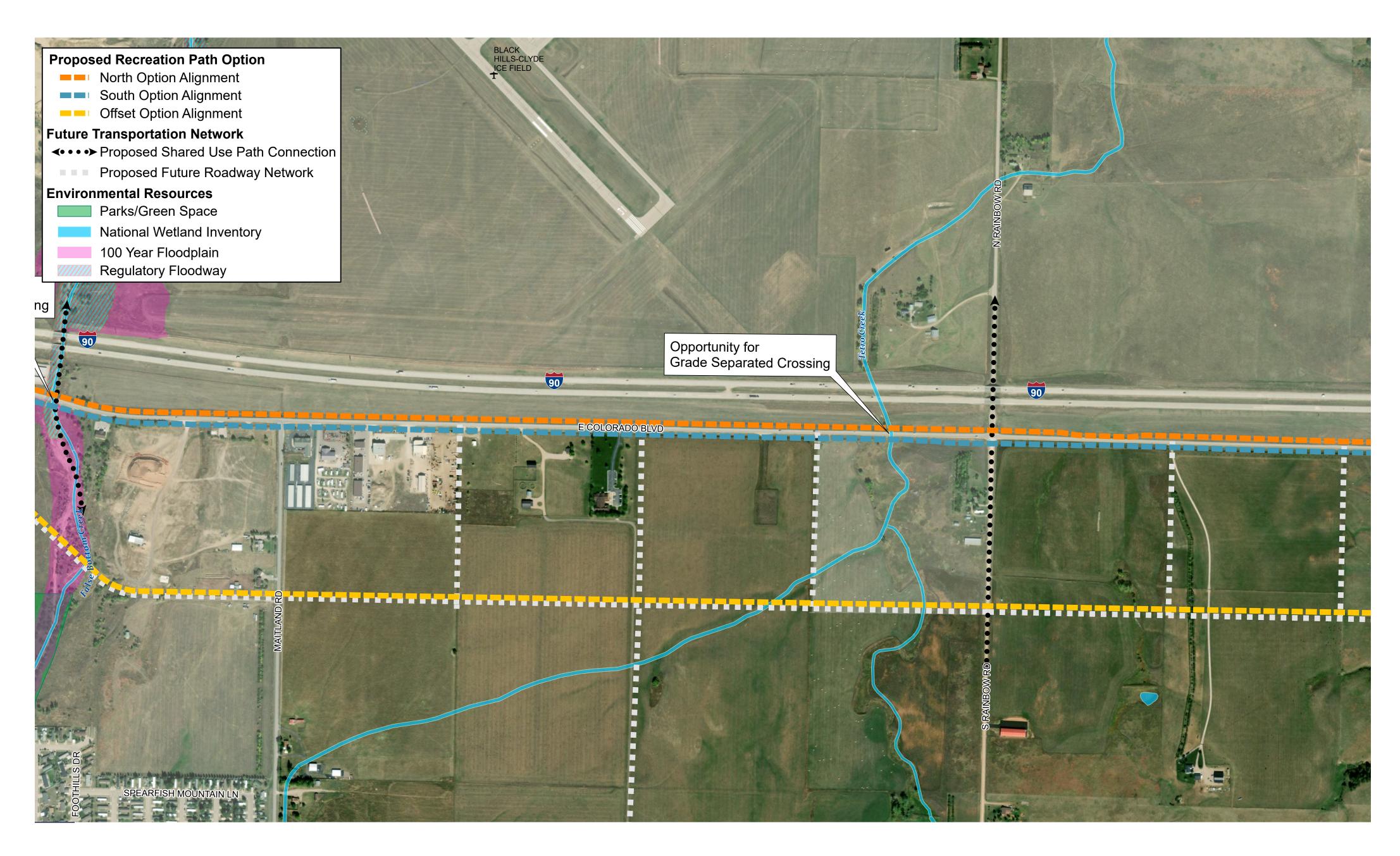
RECREATIONAL PATH ALIGNMENT OPTIONS



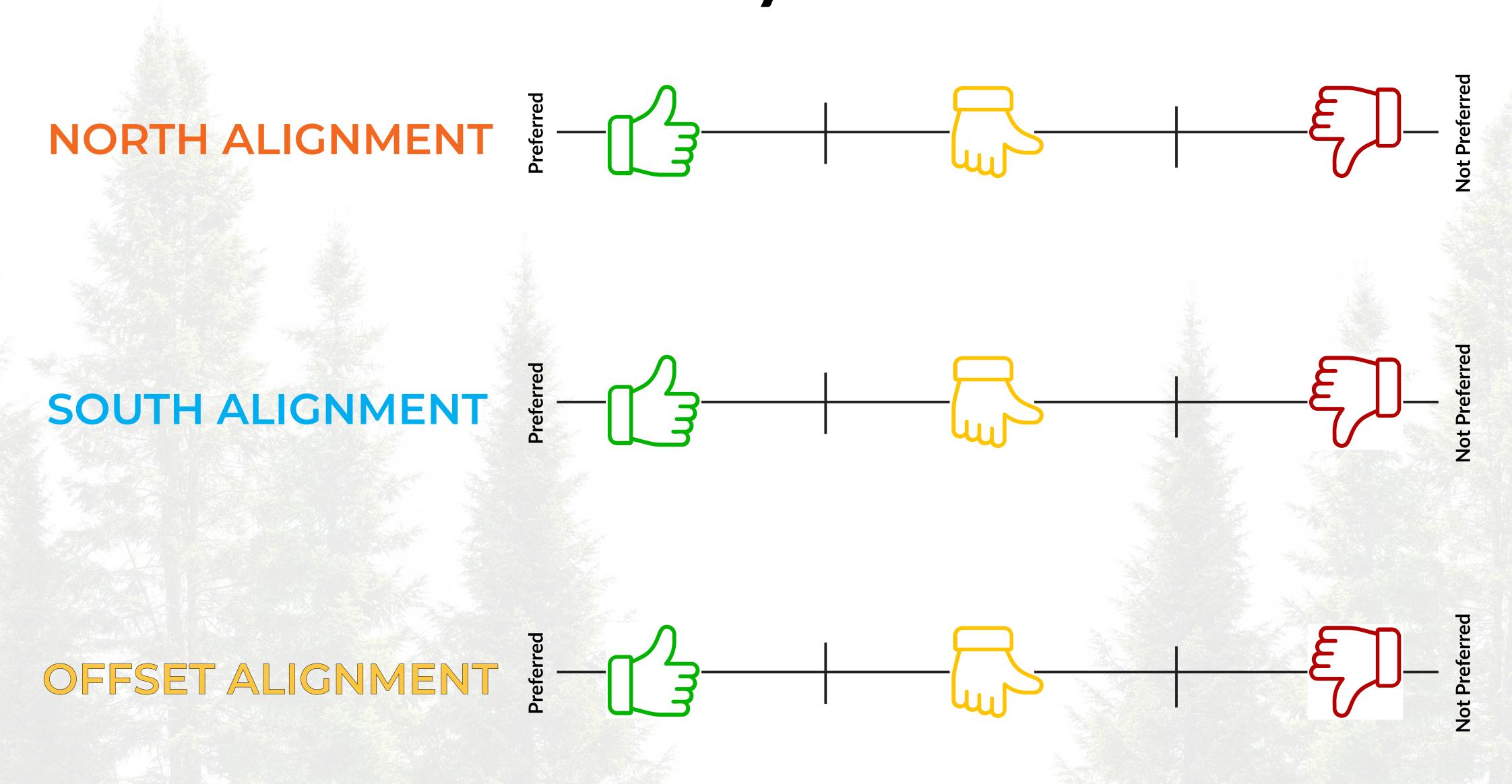


COLORADO BOULEVARD CORRIDOR STUDY

SEGMENT 2 FALSE BOTTOM CREEK TO RAINBOW ROAD



What do you think?

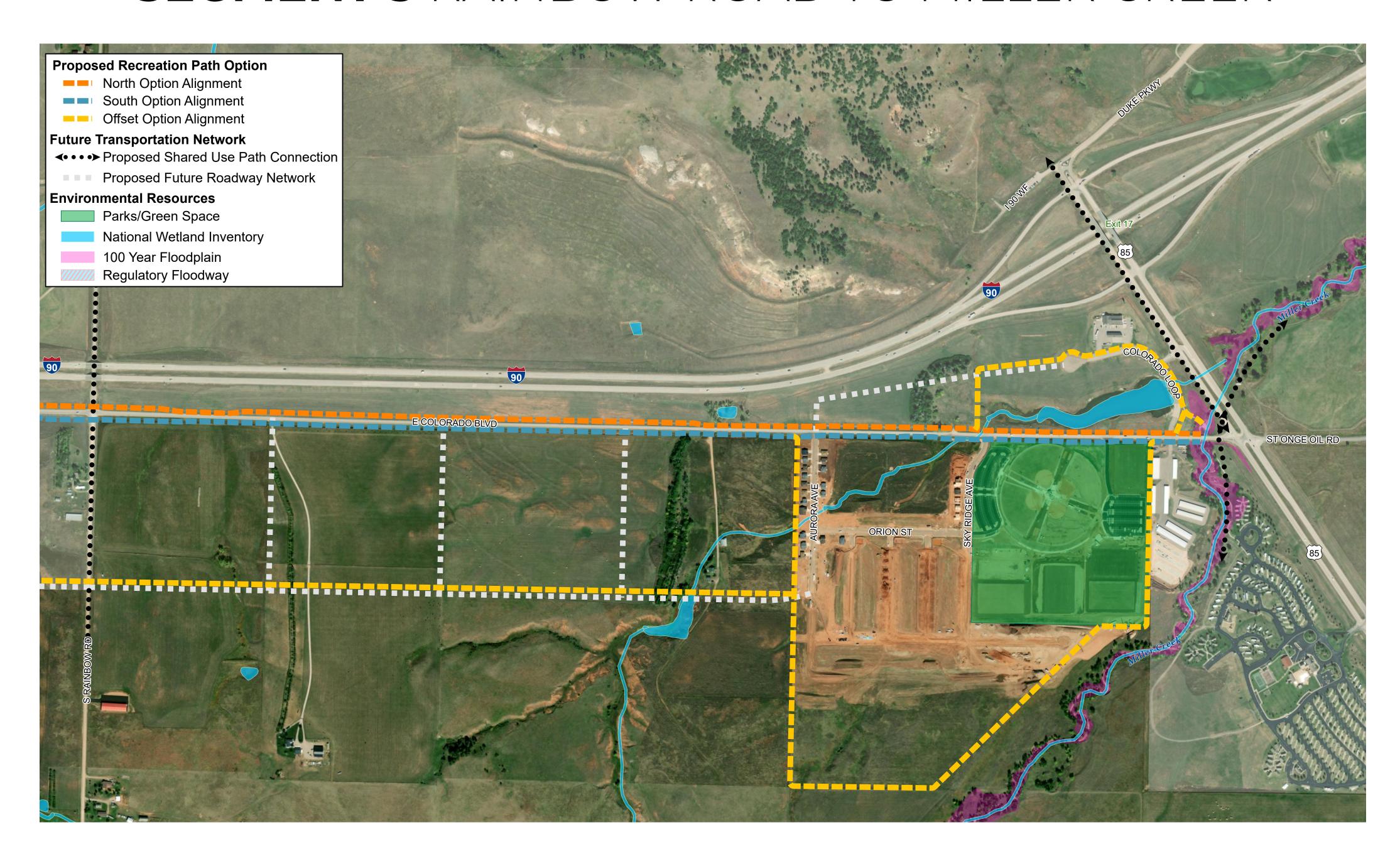


RECREATIONAL PATH ALIGNMENT OPTIONS

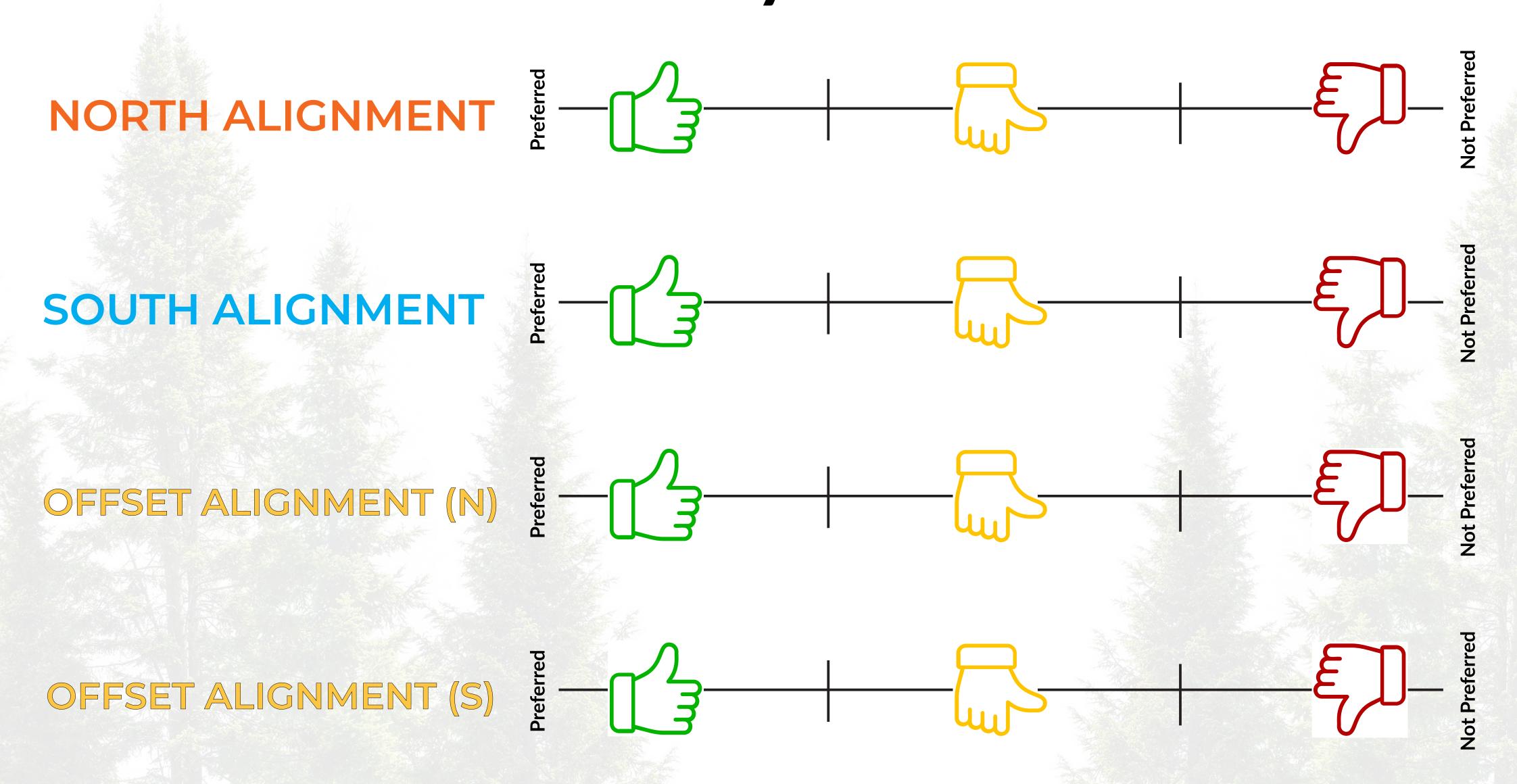


COLORADO BOULEVARD CORRIDOR STUDY

SEGMENT 3 RAINBOW ROAD TO MILLER CREEK

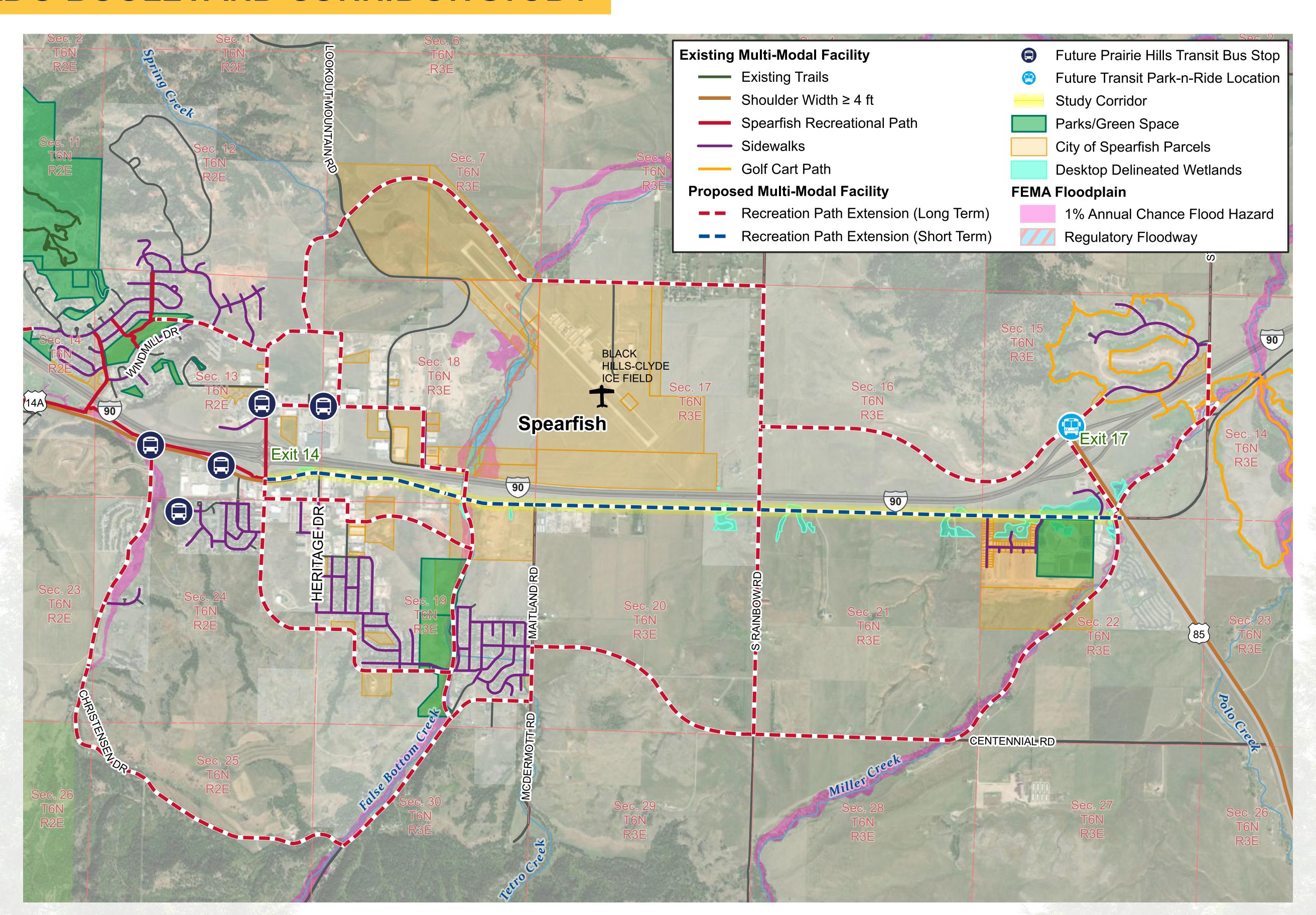


What do you think?



EXISTING AND PROPOSED MULTI-MODAL FACILITY NETWORK





EXISTING AND PROPOSED ROADWAY NETWORK



