

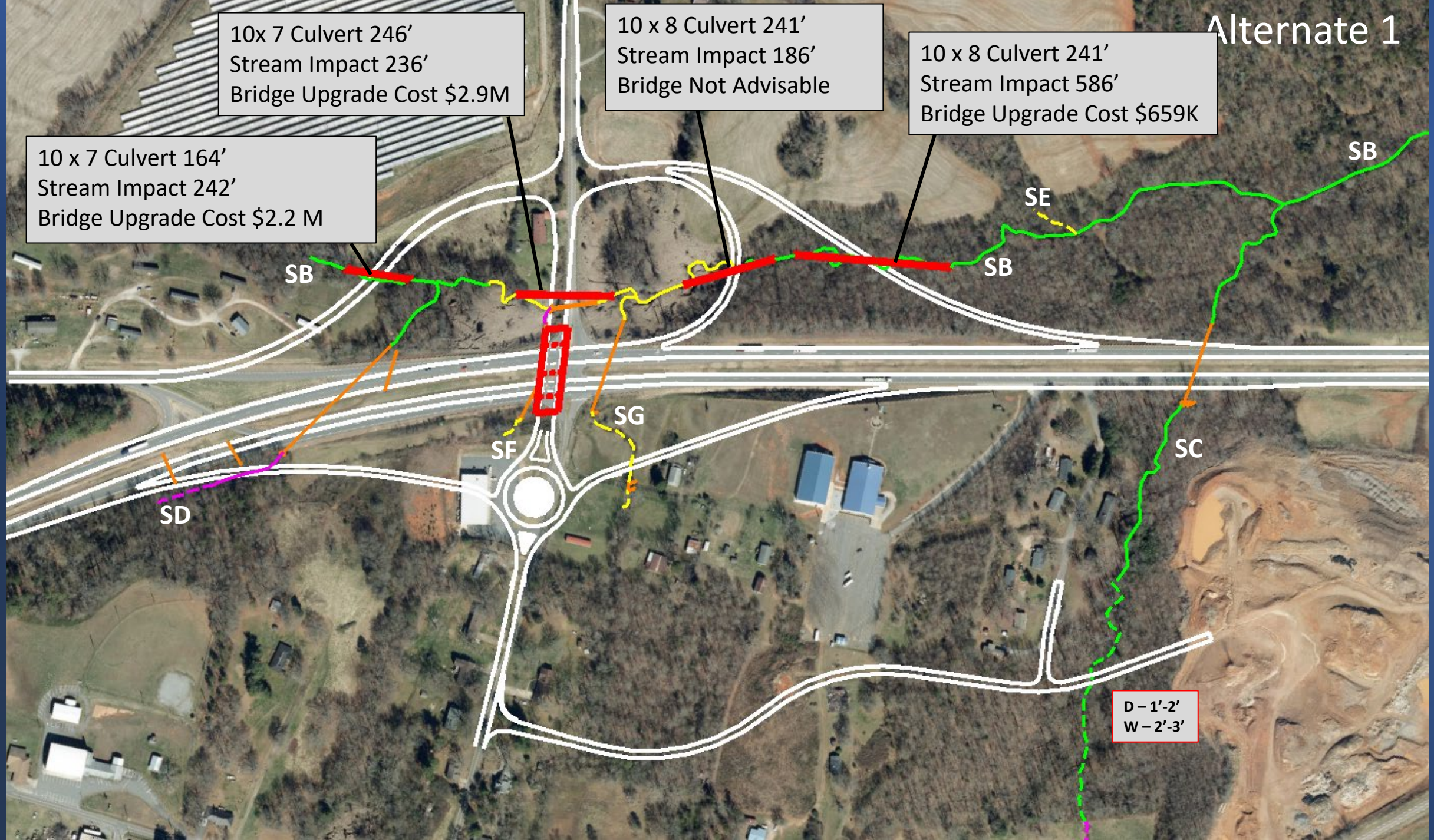
Alternate 1

10x 7 Culvert 246'
Stream Impact 236'
Bridge Upgrade Cost \$2.9M

10 x 8 Culvert 241'
Stream Impact 186'
Bridge Not Advisable

10 x 8 Culvert 241'
Stream Impact 586'
Bridge Upgrade Cost \$659K

10 x 7 Culvert 164'
Stream Impact 242'
Bridge Upgrade Cost \$2.2 M



D - 1'-2''
W - 2'-3''







Alt 1, Service Road 3 Impacts & Costs

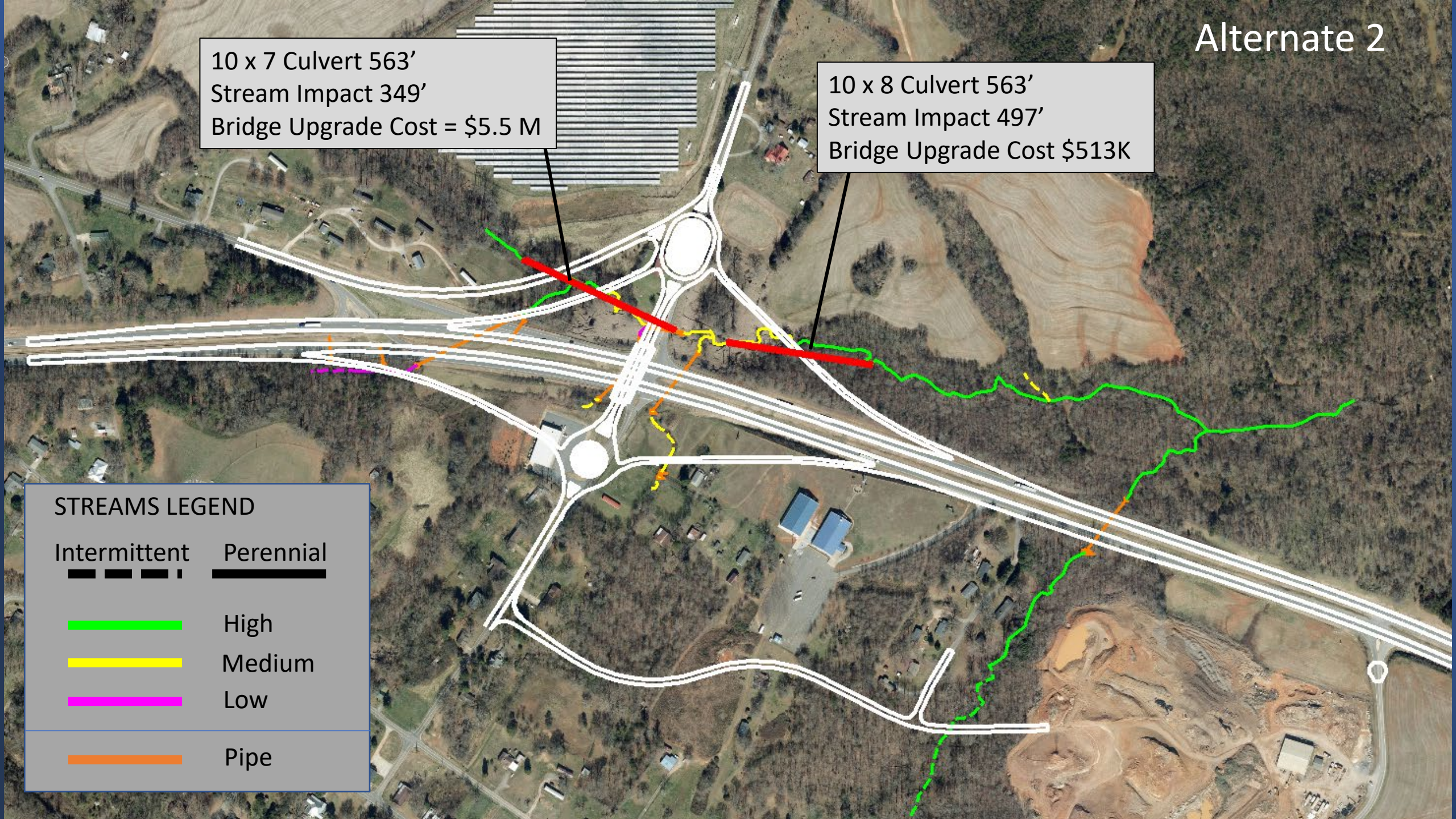
Alternate 1				Culverts On Stream B					Bridges On Stream B				
Stream Crossing Location	Stream	Intermittent/Perennial	Quality	Structure	Permanent Impact (lf)	Temporary Impact (lf)	Culvert Length (lf)	Cost (\$)	Structure	Permanent Impact (lf)	Temporary Impact (lf)	Bridge Size (sf)	Cost (\$)
L Line Sta. 81+00	Sandy Run Creek	Perennial	Med	Pair of Bridges	0	0			Pair of Bridges	0	0		
Ellenboro Rd	SB	Perinneeal	High	10x7 Culvert	217	25	164	511,000	Bridge	0	0	10,411	2,706,000
Lattimore Rd (Y1)	SB	Perennial	Med	10x7 Culvert	87	149	246	767,000	Bridge	0	0	14,000	3,638,000
Loop A	SB	Perennial	Med/High	10x8 Culvert	346	25	241		Culvert	371	25		
Ramp A	SB	Perennial	High	10x8 Culvert	561	25	400	1,247,400	Bridge	0	0	7,355	1,906,000
L Line Sta. 55+00 R	SC	Perennial	High	Parallel Pipe, Retaining Wall	20	15			Parallel Pipe, Retaining Wall	20	15		
Quarry Service Rd	SC	Intermittent	High	New Pipe < 48"	225	25			New Pipe < 48"	225	25		
L Line Sta 30+50 R	SD	Perennial	Low	Extend Pipe	209	0			Extend Pipe	209	0		
L Line Sta 28+00 R	SD	Intermittent	Low	Extend Pipe	168	0			Extend Pipe	168	0		
No Crossing	SE	Intermittent	Med	No Impact	0	0			No Impact	0	0		
Lattimore Rd (Y1)	SF	Perennial	Low	Culvert	46	0			Culvert	46	0		
Near Ramp C 20+00	SF	Perennial	Med	Extend Pipe	65	0			Extend Pipe	65	0		
Loop A/Lattimore	SG	Perennial	Med	Side slope	46	0			Side slope	46	0		
Ramp D	SG	Intermittent	Med	Extend Pipe	321	0			Extend Pipe	321	0		
Total					2311	264		\$2,525,400		1471	65		\$8,250,000
				Total Impacts	2575 lf				Total Impacts	1536 lf			

10 x 7 Culvert 563'
Stream Impact 349'
Bridge Upgrade Cost = \$5.5 M

10 x 8 Culvert 563'
Stream Impact 497'
Bridge Upgrade Cost \$513K

STREAMS LEGEND

Intermittent	Perennial
	
	High
	Medium
	Low
	Pipe



Alt 2, Service Road 3 Impacts & Costs

Alternate 2				Culverts On Stream B					Bridges On Stream B				
Stream Crossing Location	Stream	Intermittent/ Perennial	Quality	Structure	Permanent Impact (lf)	Temporary Impact (lf)	Culvert Length (lf)	Cost (\$)	Structure	Permanent Impact (lf)	Temporary Impact (lf)	Bridge Size (sf)	Cost (\$)
L Line Sta. 81+00	Sandy Run Creek	Perennial	Med	Pair of Bridges	0	0			Pair of Bridges	0	0		
Elleboro Rd/Ramp B/Lattimore	SB	Perennial	High/Med	10 x 7 Culvert	349	0	563	1,755,000	3 Bridges	0	0	27,796	7,224,000
Ramp A	SB	Perennial	Med/High	10 x 8 Culvert	714	25	495	1,544,000	Bridge	0	0	7,916	2,057,171
L Line Sta. 55+00 R	SC	Perennial	High/Med	Parallel Pipe, Retaining Wall	20	15			Parallel Pipe, Retaining Wall	20	15		
Quarry Service Rd	SC	Perennial	High/Med	New Pipe	225	25			New Pipe	225	25		
L Line Sta 30+50 R	SD	Perennial	Low	Extend Pipe	209	0			Extend Pipe	209	0		
L Line Sta 28+00 R	SD	Intermittent	Low	Extend Pipe	168	0			Extend Pipe	168	0		
No Impact	SE	Intermittent	Med	No Impact	0	0			No Impact	0	0		
Lattimore Rd (Y1)	SF	Perennial	Med	Culvert	46	0			Culvert	46	0		
Near Ramp C 20+00	SF	Perennial	Med	Extend Pipe	65	0			Extend Pipe	65	0		
Loop A/Lattimore	SG	Perennial	Low	Side slope	46	0			Side slope	46	0		
Ramp D	SG	Intermittent	Med	Extend Pipe	321	0			Extend Pipe	321	0		
				Total	2163	65		\$3,299,000	Total	1100	40		\$9,281,171
				Total Impacts	2228 lf				Total Impacts	1140 lf			