

BLUE BALL PROPERTIES

MASTER PLAN

Transportation Technical Committee Meeting
December 15, 1999

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Transportation Committee Meeting
Agenda

- I. Welcome & Introduction
- II. Augustine Cut-Off Analysis
- III. Childrens Drive Analysis
- IV. Next Steps

I. Welcome & Introduction

II. Augustine Cut-Off Analysis

US 202 & Augustine Cut-Off

Recent Three Year Accident History

(Reportable Accidents Only)

Dates: 7/96-6/99

	Total	Percentage	Direction		
			NB 202	SB 202	Augustine Cutoff
Num. Of Accidents	165	100%	12	140	13
Injury	49	30%	3	43	3
Property Damage	115	70%	9	96	10
Collision Type					
Head On	2	1%	2	0	0
Rear End	124	75%	5	114	5
Side Swipe	3	1%	1	2	0
Angle	32	19%	5	23	4
Other	7	4%	1	2	4

Affects of Augustine Cut-Off Options (unrestrained)

Estimated Traffic Diversion Due to Augustine Cut-Off Options

New Local Road Connection to East Side (Fouk/Weldin Road) Only										
Roadway / Direction	Total		New Local Road - East		New Local Road - West		Apocalypse Drive		Broom Street	
	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
Augustine Cut-Off, EB Left	70+	296	352	448	0	0	176	224	176	224
Augustine Cut-Off, EB Right	271	463	68	116	0	0	0	0	203	347
US 202, NB Left	212	51	53	13	0	0	0	0	159	38
US 202, SB Right	257	621	429	311	0	0	214	155	214	155
Total	2044	2031	902	888	0	0	390	379	752	764

New Local Road Connection to East & West Sides (Fouk/Weldin Road & New Route 141/Rockland Road)										
Roadway / Direction	Total		New Local Road - East		New Local Road - West		Apocalypse Drive		Broom Street	
	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
Augustine Cut-Off, EB Left	70+	296	141	180	423	536	70	90	70	90
Augustine Cut-Off, EB Right	271	463	54	93	54	93	0	0	163	277
US 202, NB Left	212	51	42	10	42	10	0	0	128	31
US 202, SB Right	257	621	171	124	514	373	86	62	86	62
Total	2044	2031	408	407	1033	1012	156	152	447	460

Affects of Augustine Cut-Off Options

Average Intersection Delay (seconds per vehicle)

	Baseline Conditions		2010 Conditions Full Access (No-Build) at US 202 & Augustine Cut-Off ¹ (Unrestriated) ²		2010 Conditions with No Access at US 202 & Augustine Cut-Off and New East Side Local Road Only ¹		2010 Conditions with No Access at US 202 & Augustine Cut-Off and New East & West Side Local Roads ¹	
	Peak Hour:		AM	PM	AM	PM	AM	PM
	AM	PM	AM	PM	AM	PM	AM	PM
Signalized Intersection								
US 202 & Augustine Cut-Off	49	83	188	301	Note 3		Note 3	
Concord Avenue & Broom Street	33	39	43	59	79	120	59	84
Rt 141 & Alapocas Drive	17	11	45	42	63	47	50	45
Augustine Cut-Off & Alapocas Drive	14	22	24	38	30	31	33	25
Augustine Cut-Off & 18th Street	29	21	37	37	74	35	55	33
Broom Street & 18th Street	14	15	18	19	25	45	21	23

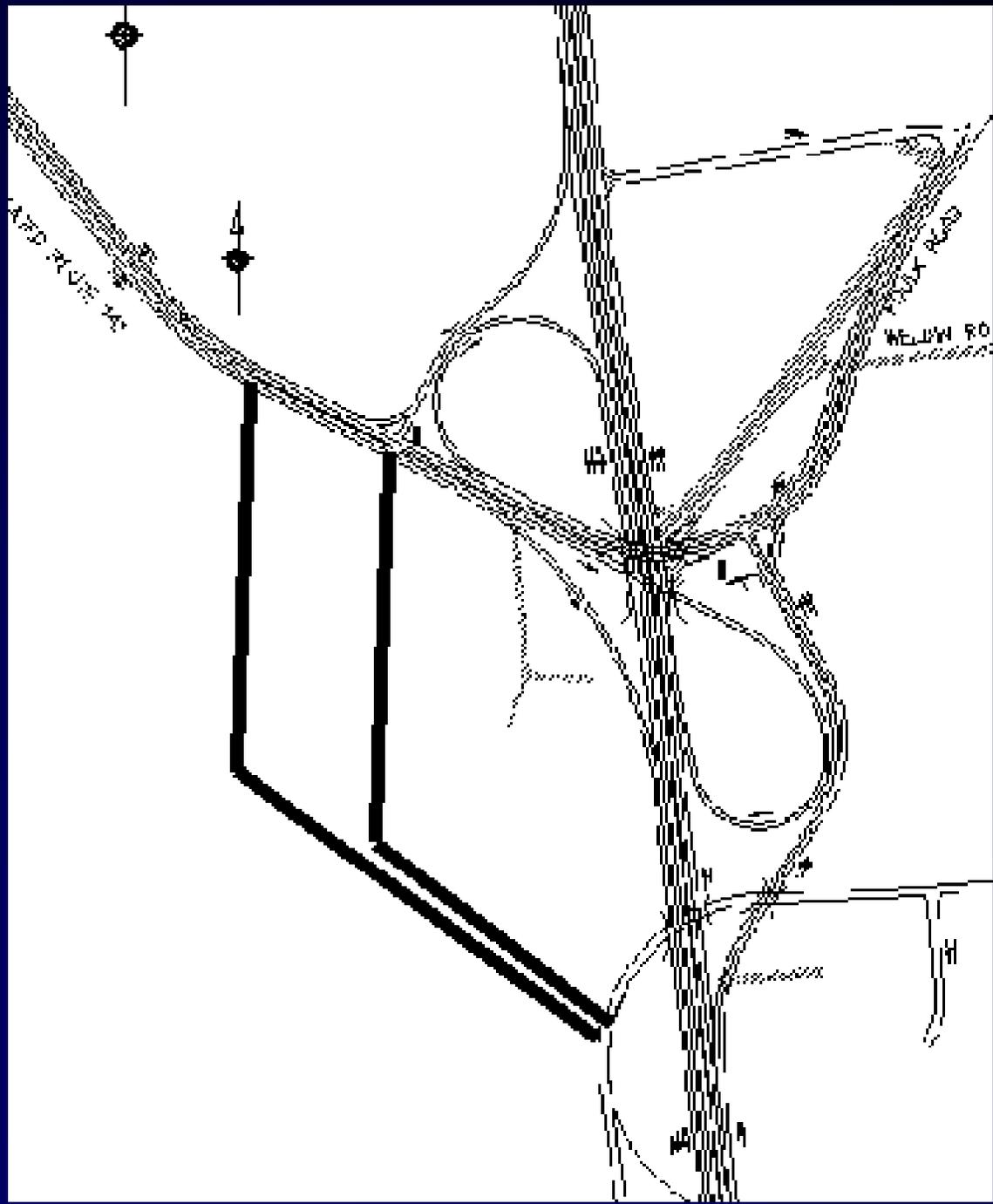
Note 1: All 2010 conditions reflect traffic projections with Astra Zereca and DuPont expansions

Note 2: "Unrestriated" projections assume traffic is not diverted from US 202/Augustine Cut-Off due to congestion

Note 3: This intersection has been relocated under this option

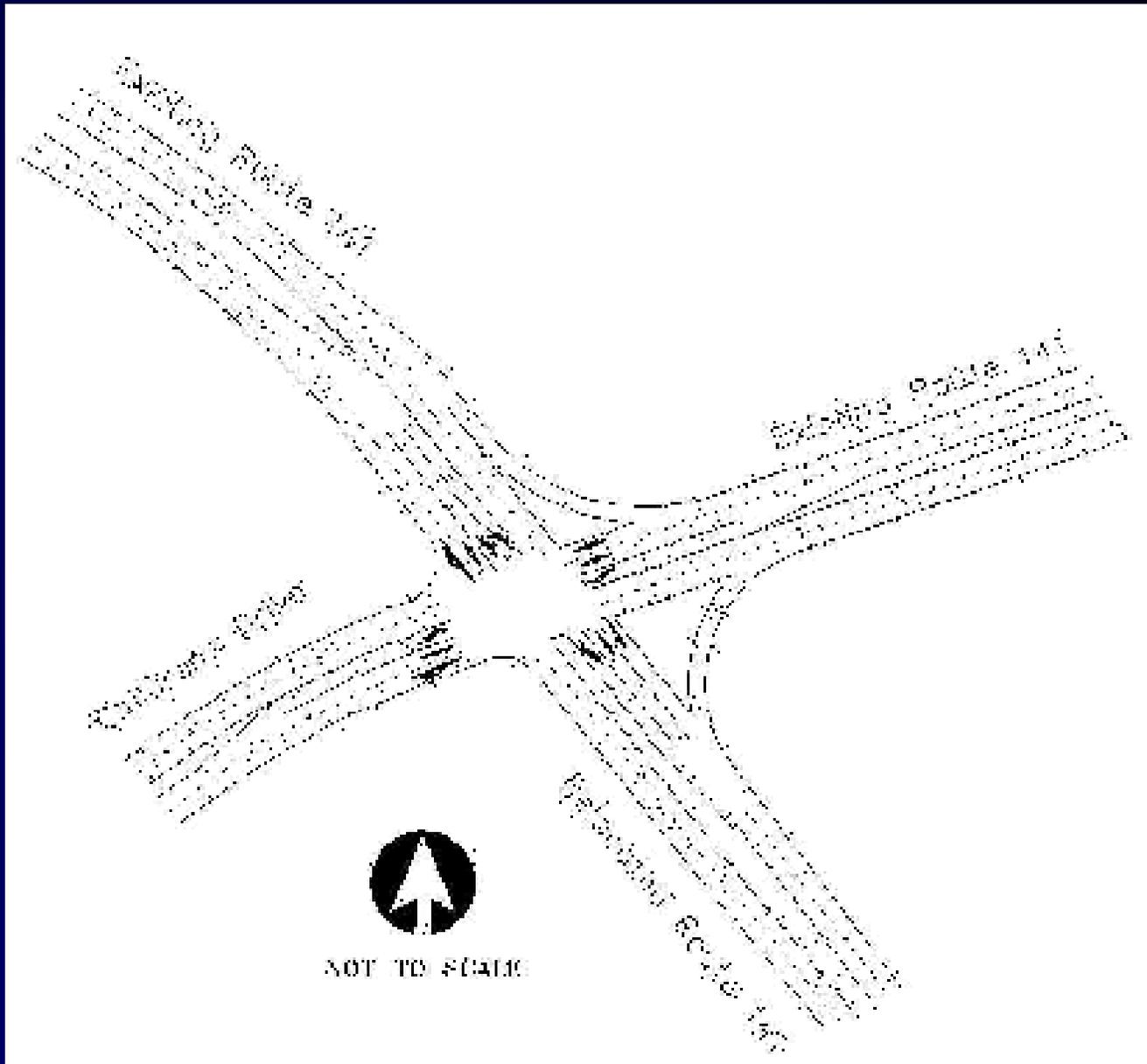
Augustine Cut-Off - Summary

- With either Option 5 (New Bow-Tie) or 6 (Diamond), the Augustine Cut-Off/US 202 intersection fails to meet the “no degradation” criteria and creates unacceptable delays at the Foulk Road interchange
- Closure of Augustine Cut-Off redirects traffic to Broom Street, 18th Street, and Alapocas Drive
- Completion of a local road network reduces the redirection of traffic
- Further coordination is needed with the city, neighborhoods, and schools

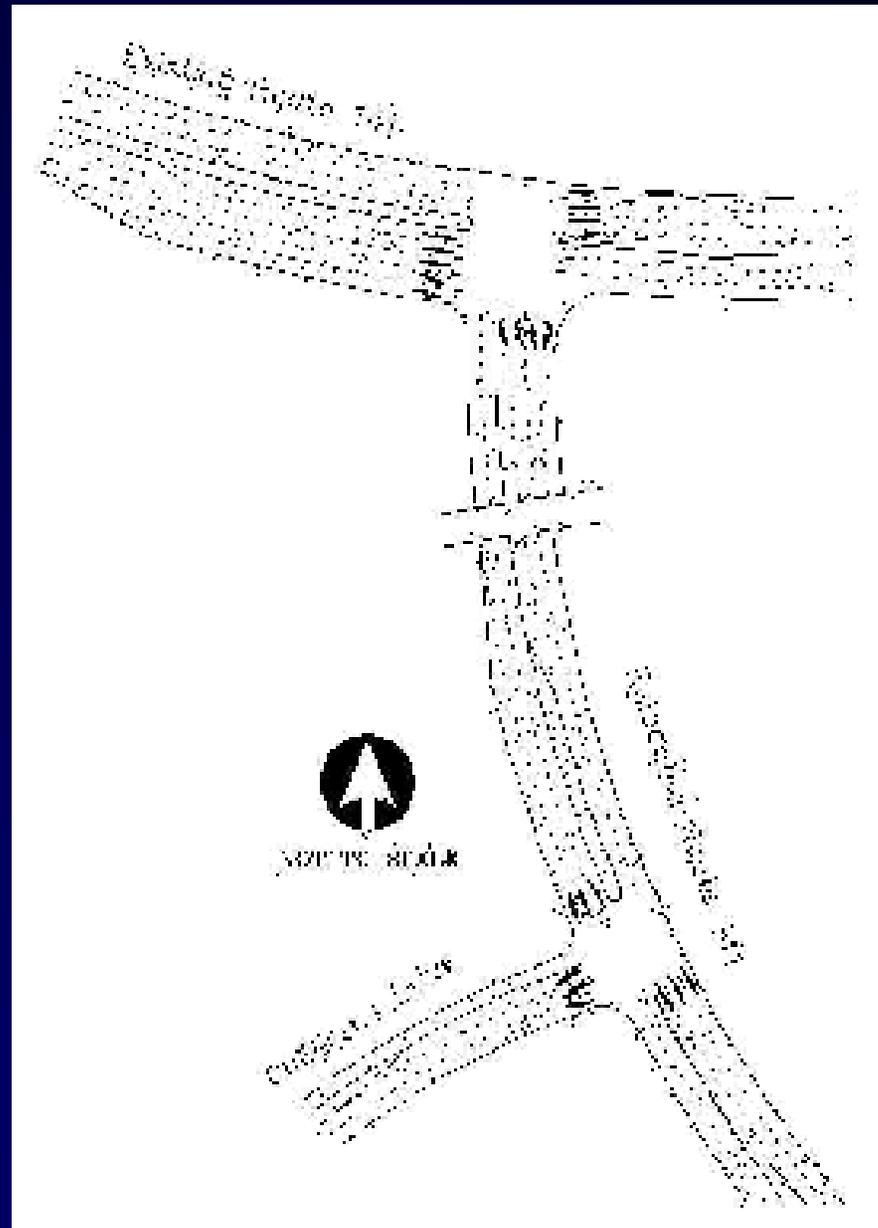


III. Childrens Drive Analysis

Original Design

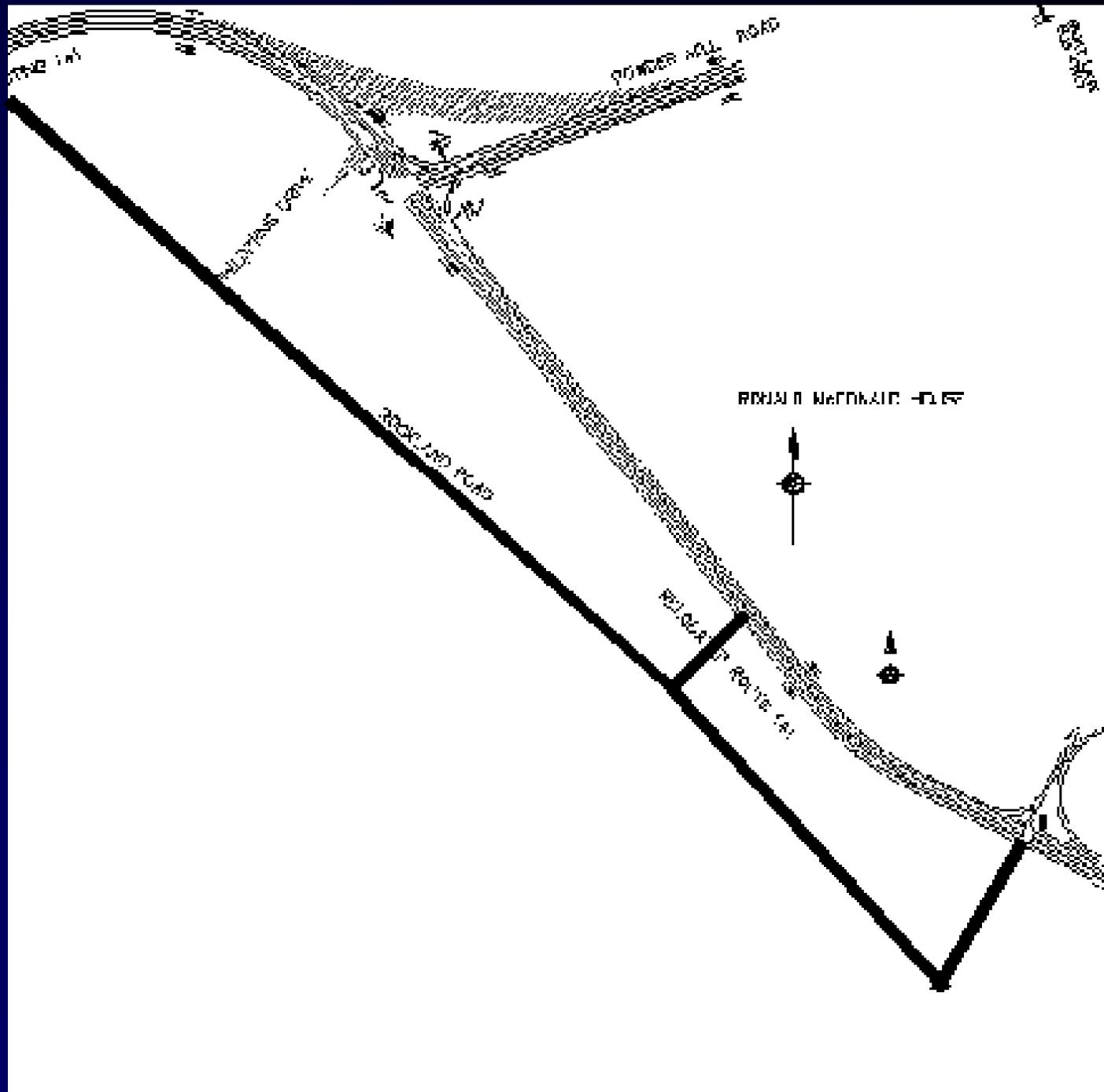


T-Intersection Design



Childrens Drive - Summary

- A revised (T-Intersection) alignment of Powder Mill Road, Relocated Route 141, and Childrens Drive is not as efficient as the original design
- A revised alignment at Childrens Drive causes degradation of the US 202/Murphy Road intersection
- The Childrens Drive approach could potentially be moved to the south (with emergency access only at the northern intersection)



IV. Next Steps