OHIO DEPARTMENT OF TRANSPORTATION DISTRICT 9

Inter Office Communication

Date: April 4, 2001

To: Jennifer Townley, Safety Program Manager

From: Larry K. Hill, Planning & Programs Administrator

By: Richard Chaffin, District Safety Review Team Chairperson

Subject: HSP Funding Request, HIG-50-2.80 / PID 23177

The enclosed Safety Project Application along with the safety engineering study is being sent to you to request safety funds to relocate the south approach of State Route 134 at the intersection of U.S. 50 & 134 in Highland County.

Please advise us of your consideration for safety funds.

RDC RDC

Enclosure

c: J. Hagen, L. Hill, D. Norris, V. Wilson, G. Baird, file



Safety Project Application

District:	Name of Contact Person:
09	Richard Chaffin
Sponsoring Agency:	Phone/Fax: 740-773-2691 (Ext) 327
ODOT	740-775-4889
Estimated Project Cost: \$410,000	Total Safety Funding Requested: \$410,000

Date: March 15, 2001

Brief Project Description:

Realign South leg of S.R. 134 to the East

Project PID: 19194	County: Highland	Route:	U.S. 50	Section:	U.S. 50 @
(If assigned)				S.R. 134/	S.L.M. 2.8

Project Description

Summary of Problem Statement:

U.S. 50 has a vertical sag and crest curve to the west of the intersection, which creates an intersection sight distance which does not meet the requirements. This intersection is not currently having unreasonable amounts of accidents; however, there is a new school being built on S.R. 134 near this intersection. The increased traffic volumes with the limited sight distance is the major concern.

Summary of Recommended Countermeasures:

 Relocate South leg of S.R. 134 to intersect U.S. 50 across from North leg of S.R. 134 to improve stopping sight distance for U.S. 50 and intersection sight distance for S.R. 134 northbound and southbound traffic.

Project Route Identification and Alignme	ent Please	identify the limits of	the project and									
approximate length.	ont. Trouse	identify the mints of	the project and									
U.S. 50 S.L.M. approx. 2.79 - 2.88	R - Length	annroy 475 ft										
S.R. 134 S.L.M. approx. 13.89 - 1	_	• •										
3.K. 134 3.L.W. approx. 13.69 - 1	J. J. J - LUIIE	gill approx. 500 It	ļ									
Project Priority (HSP Ranking / LPA Pri	oritized Lis	at)										
	orrezed Ere	,										
NA												
11.2												
Project Development - Indicate which ph	ases have b	been initiated, comple	ted or an									
estimated completion date for each applic	cable phase											
Tommarea completion and for even appreadure primes.												
Phase		Conducted by	Completion Date									
☐ Safety Engineering Study		affin & P. Miller	03/16/01									
☐ Interchange Justification Study		NA GS/16/61										
☐ Environmental		ODOT D09 3rd/2002										
☐ Right of Way		ODOT D09	1st/2003									
☐ Design		Woolpert	3rd/2002									
Crash Data		•										
			1									
Crash Frequency/Density:		3	0 Points									
Crash Rate:		0.45	0 Points									
Relative Severity Index:		\$1,666	6 Points									
Equivalent Propery Damage Only	Rate:	1.34	0 Points									
Percent Trucks:		12.83%	2 Points									
Rate of Return:		-9%	0 Points									
			,									

The following information should be included in submission of the safety project application:
Copy of the Safety Engineering Study (Include DSRT approval signatures)
Traffic Volume Data
Project Location Map
Photographs of the Project Site
Economic Analysis 🗸

Estimated Cost	Quarter /	Local	Other	Safety	Total
	Fiscal	Contribution	Sources	Request	CONTRACTOR AND
	Year				
Environmental	3rd/2002				
Right of way	1st/2003			\$10,000	\$10,000
Design	3rd/2002				\$50,000
Construction	2nd/2003			\$400,000	\$400,000
Total				\$410,000	\$460,000
RESERVOIR PR	OJECT YES	S D NO D	RESERVOIR '	YEAR	
Applicant					
Richard Chaffin				740-773-269	1 Ext 327
Printed Name/Title				Phone #	
0.0 00	00 00	11 11 01			
Richard D. Signature/Date	(haffen	7-9-01			

Threshold Calculations

Frequency = total # crashes = 3

Density = Frequency (for intersections) = 3

 $\frac{Crash}{Rate} = \frac{\text{(\# crashes)(1 million)}}{(365)(3)(\text{ADT)(Length in miles)}} = \frac{(3)(1,000,000)}{(365)(3)(6080)} = \boxed{0.45}$ (sections only)

Rate of
Return > From Economic Analysis Sheet = -9%

 EPDO
 =
 PDO
 (2)(1.0)
 =
 2

 Injuries
 (1)(6.9)
 =
 6.9

 Fatalities
 0
 =
 0

 Total
 =
 8.9

 $\frac{EPDO}{Rate} = \frac{\text{(EPDO)(1 million)}}{(365)(3)(\text{ADT)(Length in miles)}} = \frac{(8.9)(1,000,000)}{(365)(3)(6080)} = \boxed{1.34}$ (sections only)

RSI Rural Cost \Rightarrow (1 crash)(\$1,094) Rear End (02) \$1,094 \$1,094 \$1,952 \Rightarrow (2 crashes)(\$1,952) = \$3,904 Angle (06) Total = \$4,998 Total_ \$4,998 = \$1,666 6 = # crashes 3

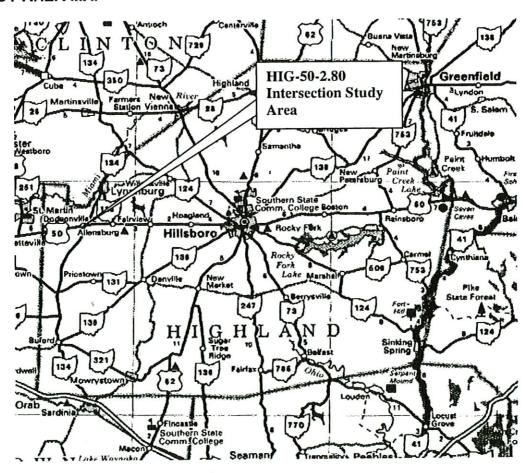
 $\frac{\% \ Trucks}{6080} = \frac{780}{6080} = 12.83\%$

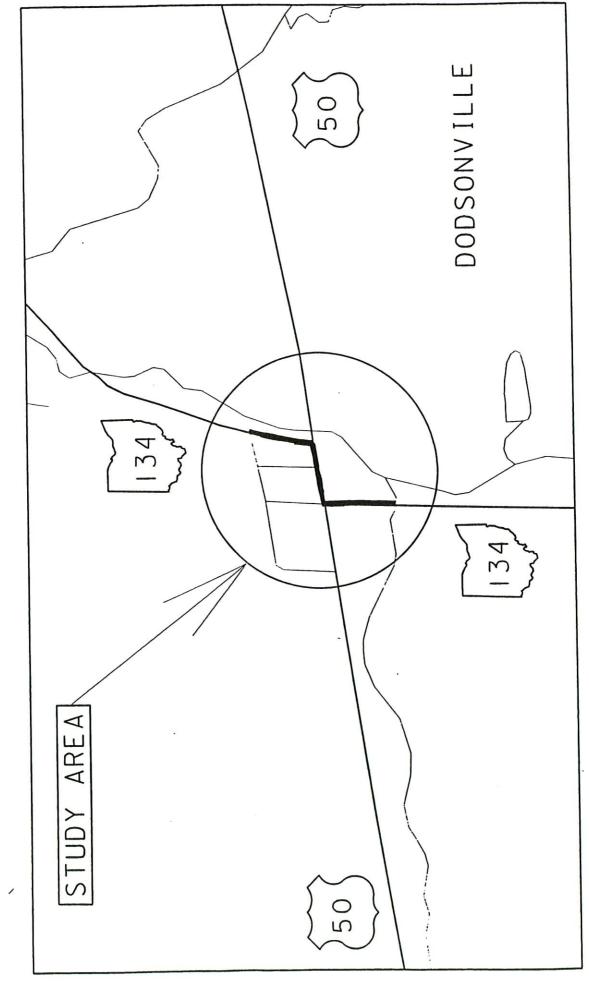
Total

HIGHWAY SAFETY PROGRAM FUNDING REQUEST

LOCATION: COUNTY/ROUTE/SECTIONHigh	land / U.S. 50 & 134 / S.L.M	. 2.80	
JURISDICTION ODOT, R		. 2.00	
00M13B1C116M			
PRIORITIES:			
AWP, HSP, HSP FUND	ING CATEGORY (1 THROUGH	6)	
PROGRAMMING: 410,000			
PROGRAMMING: 410,000 PROPOSED COST \$342,300 , RAT	F OF RETURN (CATEGORIES	1 THROUGH 3	3)
PROPOSED AWARD DATE (FY AND			
DISTRICT'S PROBLEM STATEMENT			
	S.R. 134 intersects U.S. 50 o		
a vertical crest on U.S. 50. On	THE COURT OF THE C		
is a sag in the pavement on U.			
stop condition on S.R. 134 and lo			
tance is restricted by the ver			
which will increase the traffic			
DISTRICT'S RECOMMENDATION:	c. The arter coeffer at pe	G. PO. 1000	•
	elocate the S.R.134 approa	ch of the	inter-
section approximately 500 feet			
align both approaches of S.R. 13			
of the existing offset interse			
also be improved to meet minim		3	
			-
DISTRICT'S SAFETY REVIEW TEA	M:		
SRT MEMBER (TYPED)	SIGNATURE	DATE	COMMENTS (ATTACHED)
	1/10 11/1	alad.	(HITHUREU)
IST Larry Hill, Planning Adm.	- Hamy Robbell	3/28/01	
2ND Vaughn Wilson, Hwy. Mgmt. Adm.	1 // /gl/User	3/28/01	
3RD David Norris, Production Adm.	David a how	3/28/01	
4TH Gregory Baird, Studies Engr.	Lichard D. Chaffin	3-28-01	
5TH Richard Chaffin (Chair)	Richard D. Chaffin	3-28-01	
6TH		-	
OPTIONAL MEMBERS:			
ADDITIONAL ODOT,FHWA,			
CONTROL OF THE STATE OF THE STA			
AND/OR OUTSIDE MEMBERS			
SAFETY PROGRAM MANAGER'S RE			
PREAPPROVED FOR PROGRAMMING	, HSP_FUNDING	PRIORITY_	
PROPOSED AWARD DATE	, COMMENTS		

STUDY AREA MAP





Revised 2-96

RATE OF RETURN - ECONOMIC ANALYSIS WORKSHEET

Ohio Department of Transportation

Office of Traffic Engineering

End SLM

2.8

Begin SLM

S.R. 134 (West Intersection)

U.S. 50

Main Roadway

County Highland

Intersecting Roadway

0.33 EST. RED TOTAL 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.08 0.67 PDO 0.00 0 0 0 0 CRASH REDUCTION RE -Minor ¥ AVG INJ-FAT \$6,075 \$5,658 \$7,129 0.00 0 \$417 0.00 0.33 0.00 0.00 0.00 0.00 0.00 0.00 PDO INJ. - FAT. CRASHES 0.00 0.00 0.00 0.00 0.00 0 L.T.-Minor 1 0.25 0.25 0.25 0.25 0.25 0.25 0.00 0.00 0 0.25 PDO RT 7135 %6<u>-</u> 1.17 ESTIMATED INJ. - FAT. 0 0 0 1 R4 F.0. \$67,900)/2= \$2,500 \$6,075 0 0 0 PDO 0 R3 0.00 0 0 0 1/ 82 8190 6080 s S Rate of Return 0.00 PDO 0 0.25 0.25 0.25 0.25 0.25 0.25 0.25 2 0.00 REAREND HEAD ON 0 EST. RED. 4 0.08 0.00 0.00 90.0 90.0 0.00 0.00 0.00 0.00 0.00 1.17 0.17 0.17 0.00 0 0 0 PDO 7135 6080 0.00 0 0 AVG PDO ESTIMATED PDO CRASH REDUCTION 7 0.00 0.00 0.00 0.00 0.33 0.33 0.00 0.00 0.00 II II 0.33 Average ADT / PADT = 0 (PADT + FADT)/2 = (PDO PDO CRASHES March 15, 2001 Average Annual Benefits 0.33 0.00 0.25 0.25 0.25 0.25 0.25 0.00 0 0.25 0.25 ANGLE RT 1/ 0.33 Rate of Return Annual PDO Benefits = Estimated PDO Crash Reduction * Avg PDO Cost Annual INJ.-FAT. Benefits = Estimated INJ.-FAT. Crash Reduction * Avg INJ.-FAT. Cost PDO 0 R4 **ADT Factor** 0.00 0 0 0 0 R3 1 . Н 0.00 0 PDO Average ADT = **R2** ADT Factor = Date 0.00 0.25 0.25 0.25 0.25 0.25 0 0.25 0.25 I/F 7 0.00 0 PDO \$410,000 \$1,000 0.00 0 0 0 0 4 **CRASH TYPE** s S 0.00 ROADWAY CONDITION 0 900 0 0 0 Average Annual Benefits = Total Benefits * ADT Factor 0.00 Fixed Object 0 Side Swipe 0 Right Turn 1/F Head On Left Turn Rearend WET Angle 0.00 0 0 PDO 0.33 0 ¥ DRY 0.67 years 7 0 PDO RECOMMENDED IMPROVEMENTS 0.00 0 0 0 0 1/F 8190 Maintenance and Energy Costs 6080 S.S. 0.00 PDO 20 Relocate Intersection TIME OF DAY 0.00 1/ P. Miller NITE 0.00 PDO Present ADT (PADT) Future ADT (FADT) Project Service Life Salvage Value 0.33 Total Benefits 1/F Prepared by Project Cost DAY 7 0.67 0 PDO TOTAL 98 66 Year AVG. 4 6 6 7 က် N

TRAFFIC ACCIDENT ANALYSIS

Olvision No O 9	Time Period: From /-/-97	97 to 12-31-99		Report No
Intersection of U.S. 50 & S.R.	134	West Intersection) courry	Highland	1 to 1 000
LOCATION OF ACCIDENT		PE	DRIVERS	
-N.	WEATHER ROAD COND.	DAY VEH. DIR SPEED COND.	MOLATIONS	COLLISION COLLISION
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	Tues	83 2 W		U.S. 50 V CAN
		Б		= 4 S.R. 134
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1 \1"	/e, 0H	94 5 N =	Failure To Yield	
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	DIRECTIONAL ANALYSIS	LEGEND	CONDIT	CONDITION OF DRIVER
Motor vehicle movement before accident	Sideswipe Head-on	Sdeswipe Sdeswipe Calliston	111	N - Normal
Pedestrian movement	9	Raria end collision		I - Interioried
orizing overlunding	D D Porked	Porked venicie		PD- Physical defect
100000000000000000000000000000000000000)	

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Form TS-AR-12 Only Department of Highways Bureau of Treffle

vasicle overluraling variation

85 Percentile - 50 mph /

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SEASONAL FASTOR				1		. Traffic	Minor	750	53	42	
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2-3	PM	330	320	30	29		0	No	No		
	PM	324	314	40	39		0.	No	No		
3-4	PM	368 424	357 411	44	43		0	No	No		
3-4 4-5 5-6	PM			65	63		0	No	No		

Directions for use: fill in all

Ohio Department of Transportation

Distric 9 - Planning

650 Eastern Ave, Chillicothe, Ohio 45601

1-888-819-8501

Start Date: 10/13/99 Page : 1

Study Name: H50-134A

Site Code : 00000000

Weather: Dry 60's

Board #:D4-1489

Counted by: Walt West

Raw Data: Station # 10636

Vehicle group 1, Vehicle group 2, Vehicle group 3

							p I, ven:	icie gro	oup 2, ve	enicie gr	oup 3						
	SR 134	SB		- 1	US 50 W	₹B		1	SR 134	NB		- 1	US 50 E	B			
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06:15	6 0	0	0	0	3	47	0	0	0	0	11	0	0	7	1	0	69
06:30	0 0	0	0	0	2	43	0	0	1	0	6	0	0	. 20	0	0	72
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07:30	•	0	0	0	13	34	0	0	2	0	12	0	0	31	4	0	96
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08:30		0	0	0	3	35	0	0	2	0	8	0	0	26	3	0	77
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Ohio Department of Transportation

Distric 9 - Planning 650 Eastern Ave, Chillicothe, Ohio 45601

1-888-819-8501

Site Code : 00010636 Start Date: 11/03/99

Study Name: H50-134B

Page : 1

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Weather: Dry 44 deg

Board #:D4-1489

Counted by: Walt West

Raw Data: Station 10636

Vehicle	group	1, Vehicle	group	2, Vehicle	group 3
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14:30		0	0	0	7	42	0	0	3	0	10	0	0	32	0	0	94
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16:30	0	0	0	0	12	43	1	0	2	0	8	0	0	38	4	0	108
16:45	0	0	0	0	7	34	0	0	2	0	7	0	0	27	4	0]	81
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17:00	0	0	1	0	10	34	0	0	2	0	8	0	0	48	3	0	106
17:15	0	0	1	0	10	31	0	0	1	0	10	0	0	35	5	0	93
17:30	1	0	0	0	24	28	0	0	3	0	5	0	0	41	2	0	104
17:45 Hour	0 1	0	2	01	8	40	0	0	0	0	15	0]	0	45	4	0	112
Hour	1	0	2	0	52	133	36 8 0	0	6	0 4	4 38	0	0	169	14	0	415
18:00				1				- 1				!				1	
18:15	0	0	0	0	16	37	0	0	1	0	18	0	0	48	4	0	124
18:30	0	0	0	0	18	38	0	0	1	0	14	0	0	54	5	0	130
18:45	0	0		0	10	36	1	0	4	0	13	0	0	55	4	0	123
Hour	0	0	0	0	11	33	0	0	0	0	14	0	0	52	2	01	112
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a Inc.	-	-	0.1	-	10.8	36.4	0.1	-1	1.9	-	9.0	-1	-	38.6	2.6	- [-

2000 HIGHLAND CO 2 AVERAGE 24-HR TRAFFIC VOLUME

	SECT. BEGINS	TRAFFIC SECTION		PASS & A COM'L		
US-50						
	00.00	BROWN CO. LINE	2.80	3580	740	4320
	02.80	SR 134	.07	5300		6080
	02.87	SR 134	2.01	3450	680	4130
	04.88	SR 135	7.81	4770	510	5280
U	12.69	W. CORP. HILLSBORO	.08	7300	660	7960
	12.77	LEAVE HILLSBORO		7300	660	7960
U	12.80	RE-ENTER HILLSBORO		7300	660	7960
U	13.01	GLENN ST.	.37	9160	670	9830
U	13.38	SR 124 (WILLETSVILLE RD.)	.36	11690	690	12380
U	13.74	SR 73 (WEST ST.)	.13	11910	680	12590
U	13.87	US 62 (HIGH ST.)	.43	12410	490	12900
U	14.30	SR 124 ENTER CHILLICOTHE RD.	.31	7420	410	7830
	14.61	LEAVE HILLSBORO	.04	4770	240	5010
U	14.65	RE-ENTER HILLSBORO	.12	4770	240	5010
	14.77	E. CORP. HILLSBORO	4.76	4770	240	5010
	19.53	C-91 (BEECHWOOD RD.)		2570	300	2870
	23.41	SR 753		3420		
	24.35	SR 753	4.24	2240	170	2410
	28.59	EQUALS STA. 0.00 IN ROSS CO.	.00			
US-62						
	00.00	BROWN CO. LINE	2.89	1970	260	2230
	02.89	SR 321	4.50	2310	250	2560
	07.39	SR 136	6.54	4780	270	5050
U	14.03	S. CORP. HILLSBORO	.38	6670	370	7040
U	14.61	SR 73 (MUNTZ ST.)	.18	8800	580	9380
U	14.79	SR 138 (SOUTH ST.)	.19	8230	430	8660
U	14.98	US 50 (MAIN ST.)	.76	15320	560	15880
U	15.74	SR 138 (GREENFIELD RD.)	.36	14500	400	14900
	16.10	LEAVE HILLSBORO	.09	14500	400	14900
U	16.19	RE-ENTER HILLSBORO	1.43	14500	400	14900
	17.62	N. CORP. HILLSBORO	.33	6390	310	6700
	17.95	C-79 (SELPH RD.)	3.36	5190	300	5490
	21.31	SR 72	4.12	3350	270	3620
U	25.43	S. CORP. LEESBURG	.19	3350	270	3620
U	25.62	SR 28 (MAIN ST.)	.34	2100	400	2500
	25.96	N. CORP. LEESBURG	2.05	2100	400	2500
	28.01	EQUALS STA. 0.00 IN FAYETTE CO.	.00			

DISTRICT 9 SAFETY REVIEW TEAM MEETING

Wednesday, May 3, 2000 9:30 A.M.

ATTENDEES:

Larry Hill, Planning & Programs Administrator Vaughn Wilson, Highway Management Administrator Tom Evans, Production Administrator Greg Baird, Bridge/Traffic Studies Engineer Richard Chaffin, Traffic Management Analyst (Chairperson) Chad Mitten, Planning EIT

MEMBERS NOT IN ATTENDANCE

Federal Highway Administration Representative

AGENDA:

1. Location: Highland - U.S. 50 & Mad River Rd. (Co. Rd. 7) Intersection

2. Location: Jackson - S.R. 327 S.L.M. 5.54 to 5.97

3. Location: Highland - U.S. 50 & 134 Intersection

Location 1: Highland U.S. 50 & Co. Rd. 7, S.L.M. 10.10

Richard Chaffin proposed to drop this location from the Annual Work Plan because of recent improvements made at this location by ODOT crews. The improvements involved moving gaurdrail and some channel improvement work which improved intersection sight distance. Since the improvements, the accidents were reduced from an average of 5 accidents per year to 2 accidents in the following year after the improvements. The team was in agreement to drop this location from the Annual Work Plan.

Location 2: Jackson S.R. 327 S.L.M. 5.54 to 5.97

The team discussion concerning this location was that the problem is accidents are occurring because of the poor geometry of the roadway. There is a sharp curve with a 7 percent grade split in the middle of the curve. The roadway changes direction right at the crest of the grade and motorists cannot see the roadway ahead of them. Also it was pointed out in the study that only 36 percent of the accidents occurred on dry pavement. 44 percent of the accidents occurred on wet pavement and 20 percent of the accidents occurred on snow & ice. The team decided to install chevrons around the curve and double stack the night arrow signs. The chevrons and night arrows need to be seen from well in advance of the curve so motorists can realize the road changes direction ahead of them. The team also wants to get skid tests performed to see if the surface of the pavement needs to be improved. Richard will write a work order to Mike Kinnison to install the chevrons and night arrows and prepare a sign-off sheet for the team to sign.

Location 3: Highland U.S. 50 & S.R. 134 Intersection

The team discussed the reason this intersection is being studied is not because of an accident problem but because of a school that is being constructed on S.R. 134 close to this intersection. The school is concerned about the sight distance at the intersection and the increase of traffic that will be using this intersection once the new school is built. Our study shows the intersection does not meet intersection sight distance requirements. The profile on U.S. 50 has a vertical sag and crest to the west of the intersection which limits intersection sight distance. There has only been a total of 3 accidents in the last three year period. We have done some survey work and some rough estimates on what it would take to correct the profile on U.S. 50 or relocate S.R. 134 to the vertical crest of U.S. 50. Our estimates are very rough but it would amount to several hundred thousand dollars. And we are concerned about the impact to adjacent properties as well as environmental issues. The team realizes this intersection would not be likely to get funded through the safety program due to lack of funds. However due to limited District funds, we probably will need to request safety funds and hope that eventually it will get funded through the safety program. The team decided to have more extensive survey and preliminary design on all possible corrections that could bring the intersection sight distance to standard. We need to know what our project will be and have a cost estimate before we can request safety funds. It was decided to have this work done by utilizing our general services contract with Woolpert Consultants. We would have them give us the best solution that is cost feasible and also addresses environmental and right of way issues. We will propose this recommendation to John Hagen, Deputy Director for his concurrence before we proceed.

RDC RDC

