

West Linn Safe Routes to School

Transportation Advisory Board Meeting
March 20, 2019



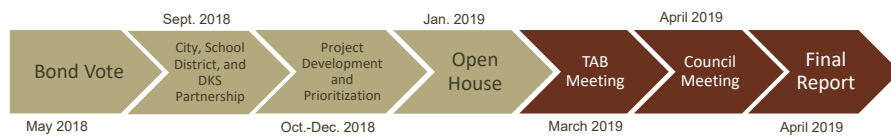
3/20/2019

Background

• Goals

- Evaluate and update existing Safe Routes to School plans
- Identify potential projects to improve the pedestrian network
- Prioritize the projects for funding based on expected benefits

• Timeline



3/20/2019

Background

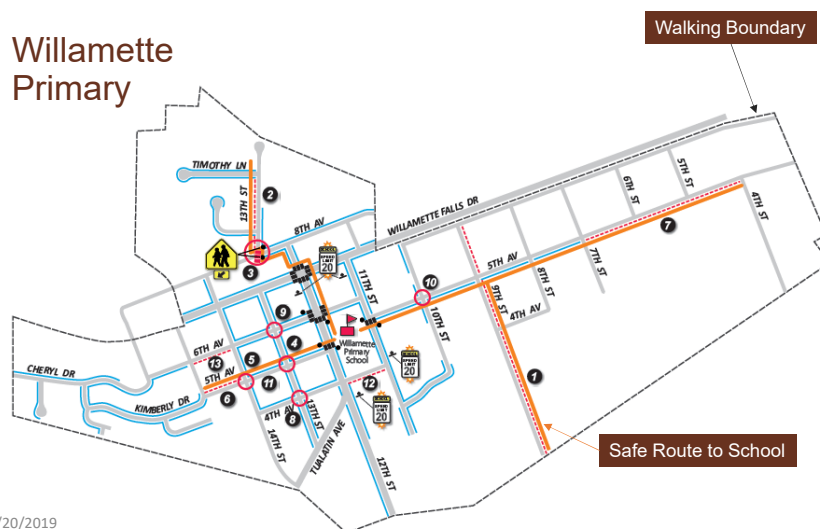
- What is a Safe Route to School?
 - A safe walking and biking route to and from schools
 - Aims to make it safe, convenient, and fun for children to walk and bike to school
 - Defined only within the school walking boundary

- What is a Walking Boundary?
 - The subset of the enrollment zone in which students are **not** provided bus service
 - Typically ½ mile or 1-mile around an elementary school

3/20/2019

Background

- Willamette Primary



3/20/2019

Background

- What schools did we evaluate?

School	2018-2019 Enrollment
Bolton Primary	347
Cedaroak Park Primary	283
Rosemont Ridge Middle	735
Sunset Primary	343
Trillium Creek Primary	578
Willamette Primary	524
Total Enrollment	2,810

These projects will directly impact over 10% of the 26,000 people that reside in West Linn.



3/20/2019

Project List Development

- How did we identify projects?
 - Field visits to each school to identify needs
 - West Linn TSP
 - Feedback from the community
- Focus on creating a continuous pedestrian network
 - Sidewalk infill and repair
 - Accessible curb ramps
 - Enhanced pedestrian crossings
 - Signing and lighting



Field visit on 5th Avenue near Willamette Primary

3/20/2019

Project List Prioritization

- Each project was scored using the following criteria

Safety (max 3)	Accessibility (max 2)	Connectivity (max 2)	Proximity (max 1)	TSP Project (max 1)
0 - negligible change in safety 2 - provides more ped awareness 3 - reduces ped-vehicle conflict points	0 - does not improve accessibility 2 - improves accessibility	0 - does not improve connectivity 1 - improves connectivity on one possible route 2 - improves connectivity on only possible route	0 - serves small portion of the walking boundary 1 - serves large portion of the walking boundary	0 - no 1 - yes

- Scoring was used to prioritize projects for each school

3/20/2019

Project List Refinement

- Preliminary project list was refined based on community feedback
 - Open House held at Trillium Creek Primary School on January 29, 2019.
 - 25-30 attendees
 - Great feedback from the community, including
 - Overall support for the process and projects
 - Safety was ranked most important factor for prioritization
 - Concerns about crossing Highway 43
 - Concerns about crossing Santa Anita Drive
 - Concerns about projects fitting in with the aesthetic of the neighborhood

3/20/2019

Current Project List

School	Number of Projects	Total Project Cost
Bolton Primary	9	\$580,000
Cedaroak Park Primary	13	\$6,730,000
Rosemont Ridge Middle	2	\$50,000
Sunset Primary	17	\$4,420,000
Trillium Creek Primary	4	\$380,000
Willamette Primary	14	\$2,200,000
Total	59	\$14,360,000

3/20/2019

Potential Funding Allocation

- How Far will \$1M go?
 - One full project, one partial project based on prioritization scoring

Project Number	Prioritization Score	Description	Cost Estimate
C1	9.0	Sidewalk infill on north side of Cedar Oak Drive (Trillium Dr. to Highway 43)	\$880,000
C2	9.0	Sidewalk infill on east side of Trillium Drive (Glen Terrace to Cedar Oak Dr.)	\$470,000
B4	8.0	Sidewalk infill on south side of Perrin Street (Lewis St. to end of Perrin St.)	\$100,000
S8	8.0	Sidewalk infill on west side of Sussex Street (Sunset Ave. to Oxford St.)	\$440,000
W2	8.0	Sidewalk infill on west side of 13 th Street (8 th Ave. to Timothy Ln.)	\$240,000

3/20/2019

Potential Funding Allocation

- How Far will \$1M go?
 - One high-priority project at each school

Project Number	Prioritization Score	Description	Cost Estimate
B4	8.0	Install sidewalk on south side of Perrin Street (Lewis St. to end of Perrin St.)	\$100,000
C2	8.0	Install sidewalk on east side of Trillium Drive (Glen Ter. To Cedar Oak Dr.)	\$470,000
R1	5.0	Pedestrian crossing improvement at Salamo Road/Hoodview Avenue	\$30,000
S1	7.0	Install sidewalk on Bittner Street (Long St. to Oxford St.)	\$110,000
T1	6.0	Pedestrian crossing improvement at Hidden Springs Road/Suncrest Drive	\$80,000
W2	8.0	Install sidewalk on west side of 13 th Street (8 th Ave to Timothy Ln.)	\$240,000
Total			\$1,030,000

3/20/2019

Potential Funding Allocation

- How Far will \$1M go?
 - All 23 signing, striping, accessible curb ramps, and pedestrian crossing improvements (including RRFBs)

Project Number	Prioritization Score	Description	Cost Estimate
see below	Ranges from 3.0 - 6.0	Includes projects at all six schools	Ranges from \$10K - \$110K
Total			\$940,000

Includes the following projects: B1, B5, B6, B7, B8, B9, C4, C13, R1, R2, S3, S9, S17, T1, T2, T3, W3, W4, W5, W8, W9, W10, and W14.

3/20/2019

Questions & Thoughts

- Are there any projects we missed?
- Are the prioritization criteria appropriate?
- How would you like to see the funding allocated?

3/20/2019

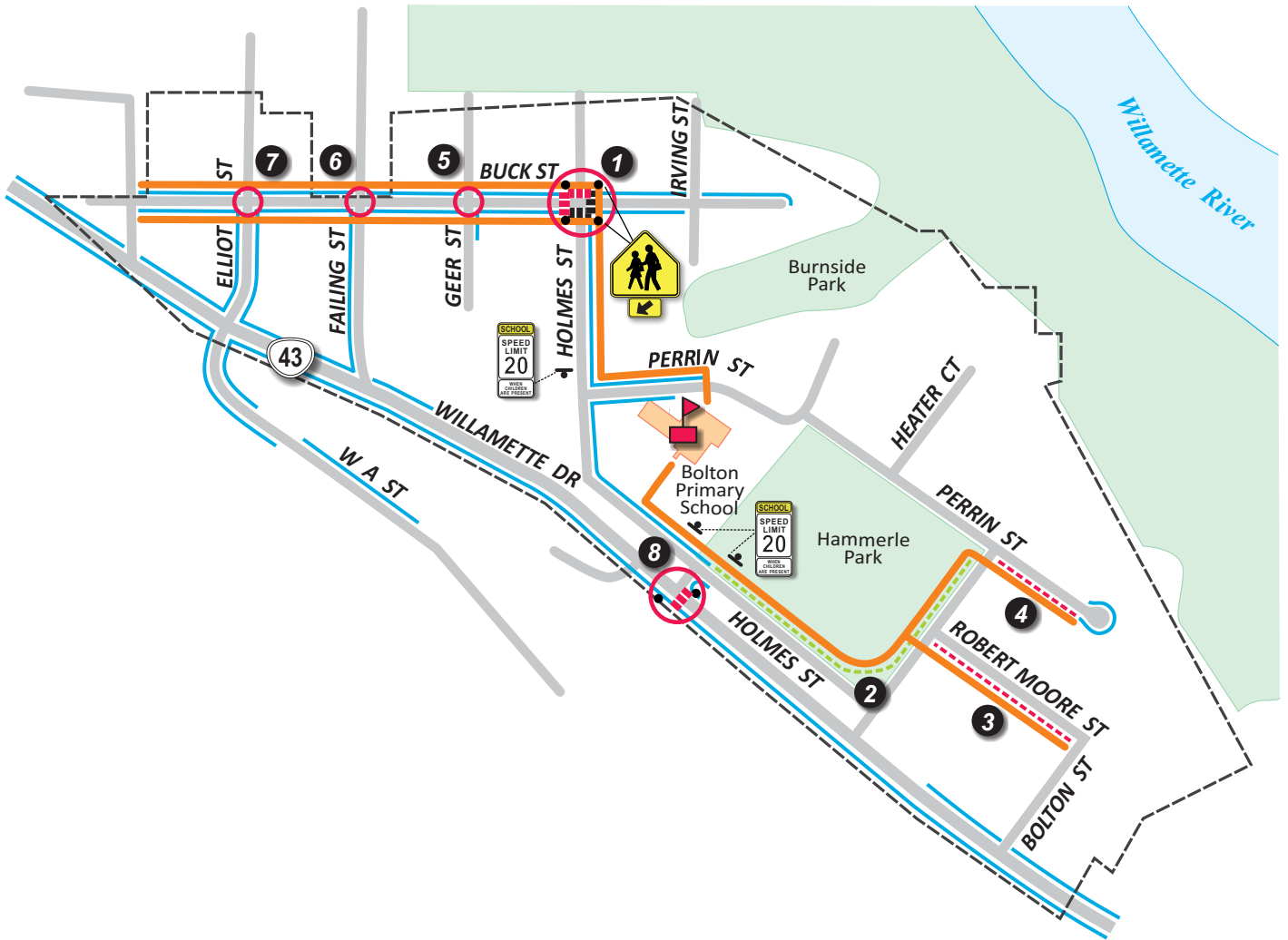
Legend

- Bolton Primary Safe Route to School
- - - Recommended Sidewalk Infill
- Recommended Pedestrian Crossing Improvements
- ■ ■ Recommended Crosswalk
- - - Recommended Off-Road Path
- # Project Number



Existing Conditions

- Existing Sidewalk
- ■ ■ Existing Crosswalk
- Crossing Sign
- ▲ School Speed Limit Sign
- - - Walking Boundary for Bolton Primary School



DKS

Figure 0

Recommended

Bolton Primary School Safe Routes to School

Bolton

Project #	Project Type	Roadway	From	To	Project Description	On Safe Route?	TSP?	Cost Estimate	Priority Scoring	Priority Ranking
B1	Signing and Striping	Holmes Street	Buck Street		add school crossing signs on west leg and crosswalk striping on west and north legs	Y	N	\$ 10,000	3.00	5
B2	Multi-use path installation	Perrin Street	Lewis Street	Bolton Primary	install asphalt path through Bolton Park off Holmes Street to serve houses east of school	Y	N	\$ 60,000	7.00	2
B3	Sidewalk Installation	Robert Moore Street	Bolton Street	Lewis Street	install sidewalk on north side	Y	N	\$ 120,000	7.00	2
B4	Sidewalk Installation	Perrin Street		end of Perrin Street	install sidewalk on south side	Y	Y	\$ 100,000	8.00	1
B5	Curb Ramp Installation	Buck Street	Gear Street		install curb ramps on all 4 corners	Y	N	\$ 80,000	3.00	5
B6	Curb Ramp Installation	Buck Street	Falling Street		install curb ramps on NE, NW, and SE corners (ADA curb ramps exist on SW corner)	Y	N	\$ 50,000	2.00	8
B7	Curb Ramp Installation	Buck Street	Elliott Street		ramp upgrade needed on NW and SW corner - currently useable	Y	N	\$ 30,000	2.00	8
B8	Ped Crossing Improvements	Willamette Drive	To Be Determined	To Be Determined	Install pedestrian refuge island, location to be coordinated with ODOT.	N	N	\$ 110,000	4.00	4
B9	Signing and Striping	Various			replace existing school speed limit signs with flashers	Y	N	\$ 20,000	3.00	5

TOTAL COST \$ 580,000

Legend

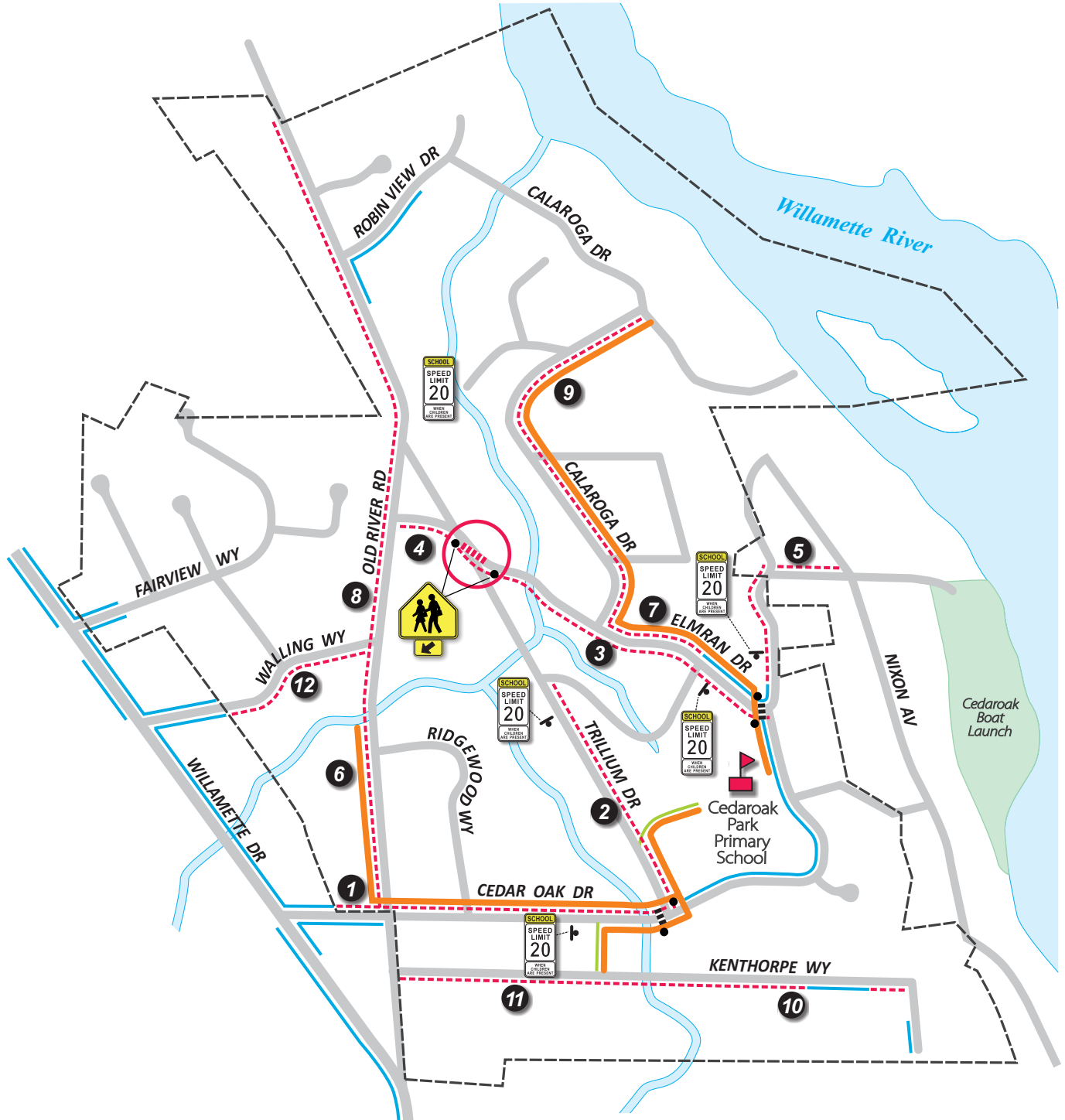
- Cedaroak Creek Primary Safe Route to School
- - - Recommended Sidewalk Infill
- Recommended Pedestrian Crossing Improvements
- ■ ■ Recommended Crosswalk
- # Project Number



No Scale

Existing Conditions

- Existing Sidewalk
- Off-Road Path
- ■ ■ Existing Crosswalk
- Crossing Sign
- ▲ School Speed Limit Sign
- - - Walking Boundary for Cedaroak Creek Primary School



DKS

Figure 0

Recommended
Cedaroak Park Primary School Safe Routes to School

CedarOak

Project #	Project Type	Roadway	From	To	Project Description	On Safe Route?	TSP?	Cost Estimate	Priority Scoring	Priority Ranking
C1	Sidewalk Installation	Cedar Oak Drive	Trillium Drive	Highway 43	install sidewalk on north side	Y	P12	\$ 880,000	9.00	1
C2	Sidewalk Installation	Trillum Drive	Glen Terrace	Cedar Oak Drive	install sidewalk on east side	Y	P53	\$ 470,000	9.00	1
C3	Sidewalk Installation	Elmran Drive	Old River Road	Cedar Oak Drive	install sidewalk on south side	N	N	\$ 1,610,000	7.00	3
C4	Signing and Striping	Elmran Drive			add school crossing signs and crosswalk striping on south leg	N	N	\$ 10,000	3.00	12
C5	Sidewalk Installation	Elmran Drive	Cedar Oak Drive	Nixon Ave	install sidewalk on east/north side	N	N	\$ 510,000	6.00	10
C6	Sidewalk Installation	Old River Road	Cedar Oak Drive	creek	install sidewalk on west side	Y	N	\$ 350,000	6.00	10
C7	Sidewalk Installation	Elmran Drive	Glen Terrace	Calaroga Court	install sidewalk on north side	Y	N	\$ 160,000	7.00	3
C8	Sidewalk Installation	Old River Road	creek	Riverside Court	install sidewalk on west side	N	N	\$ 930,000	7.00	3
C9	Sidewalk Installation	Calaroga Drive	Elmran Drive	Calaroga Court	install sidewalk on east side	Y	N	\$ 640,000	7.00	3
C10	Sidewalk Installation	Kenthorpe Way	trail entrance	end	install sidewalk on south side where missing	N	N	\$ 450,000	7.00	3
C11	Sidewalk Installation	Kenthorpe Way	Old River Road	trail entrance	install sidewalk on south side	N	N	\$ 370,000	7.00	3
C12	Sidewalk Installation	Wailing Way	Old River Road	sidewalk	install sidewalk on south side	N	N	\$ 320,000	7.00	3
C13	Signing and Striping	Various			replace existing school speed limit signs with flashers	Y	N	\$ 30,000	3.00	12

TOTAL COST \$ 6,730,000

Legend

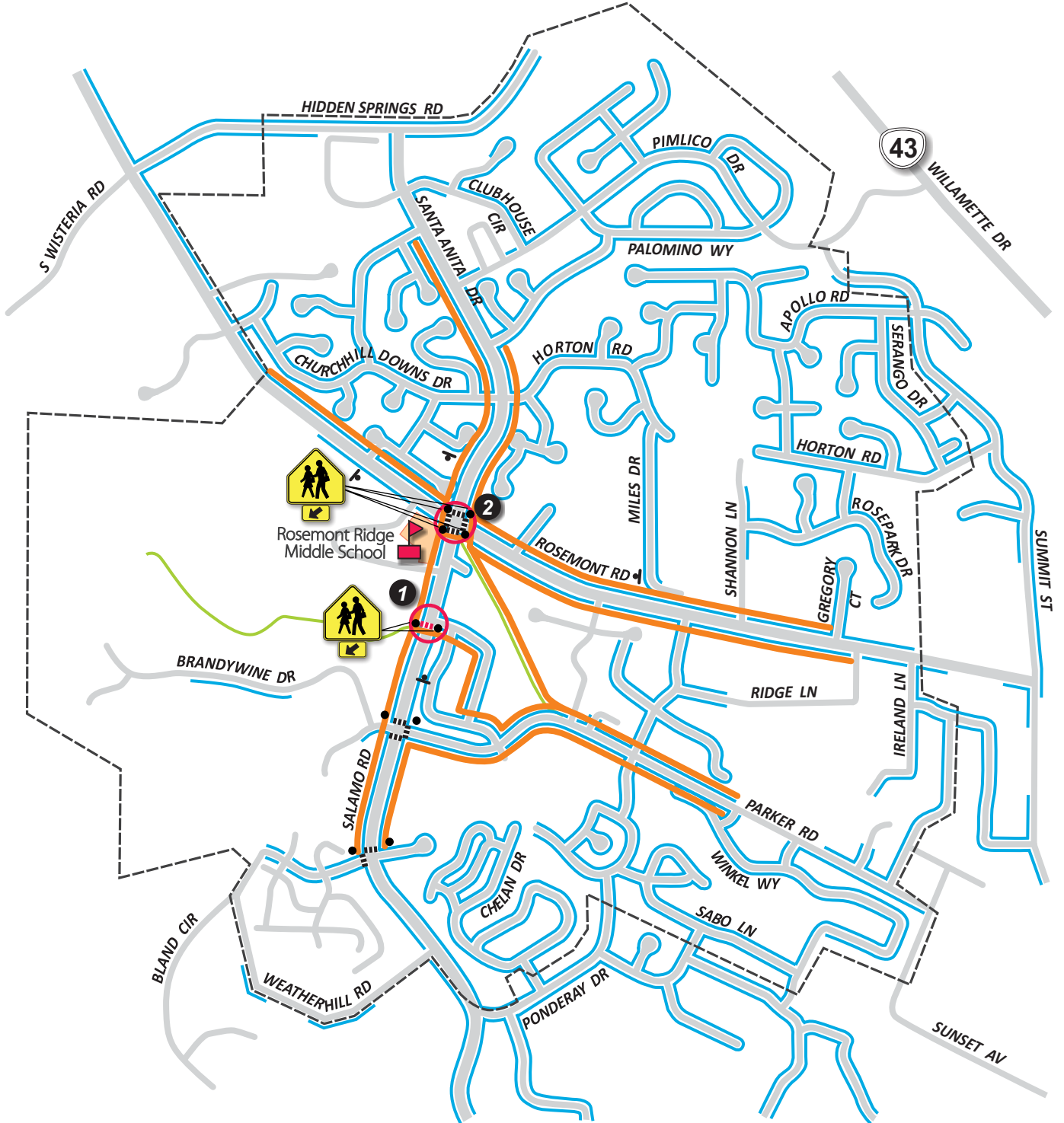
- Rosemont Ridge Primary Safe Route to School
- - - Recommended Sidewalk Infill
- Recommended Pedestrian Crossing Improvements
- Recommended Crosswalk
- # Project Number



No Scale

Existing Conditions

- Existing Sidewalk
- Off-Road Path
- Existing Crosswalk
- Crossing Sign
- ⚡ Flashing School Speed Limit Sign
- - - Walking Boundary for Rosemont Ridge Primary School



DKS

Figure 0

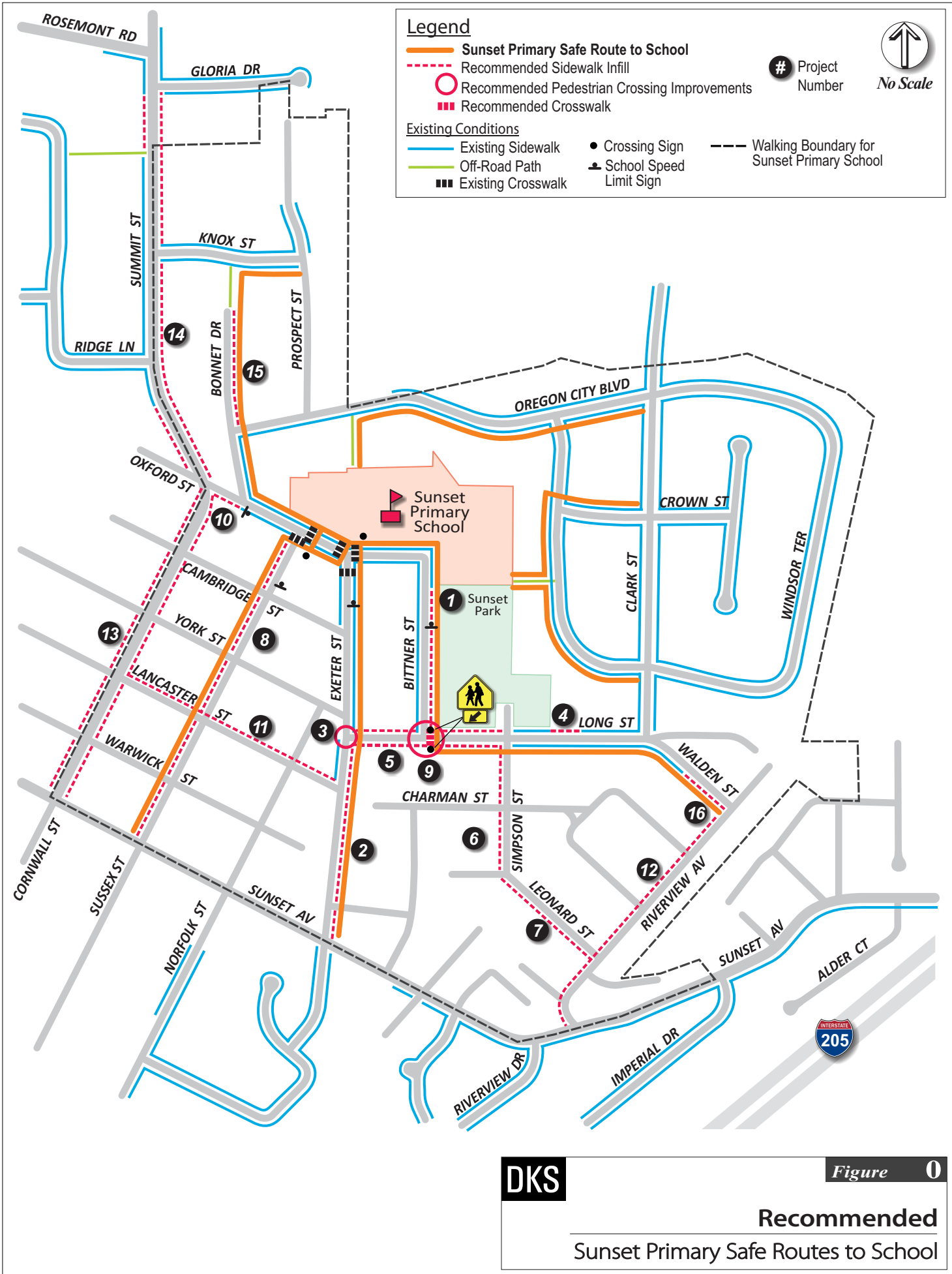
Recommended

Rosemont Ridge Middle School Safe Routes to School

Rosemont

Project #	Project Type	Roadway	From	To	Project Description	On Safe Route?	TSP?	Cost Estimate	Priority Scoring	Priority Ranking
R1	Ped Crossing Installation	Salamo Road	Hoodview Ave		extend NBLT to school driveway, add marked crosswalk & school crossing signage with pedestrian refuge on south side of intersection - recommend crossing guard	Y	N	\$ 30,000	5.00	1
R2	Signing and Striping	Rosemont Road	Salamo Road		install school crossing signs on all 4 legs	Y	N	\$ 20,000	5.00	1

TOTAL COST \$ 50,000




Sunset

Project #	Project Type	Roadway	From	To	Project Description	On Safe Route?	TSP?	Cost Estimate	Priority Scoring	Priority Ranking
S1	Sidewalk Installation	Bittner Street	Long Street	Oxford Street	install sidewalk on east side	Y	N	\$ 110,000	7.00	2
S2	Sidewalk Installation	Exeter Street	Sunset Ave	Long Street	install sidewalk on east side	Y	P17	\$ 240,000	7.00	2
S3	Curb Ramp Installation	Exeter Street	Long Street		install curb ramps on each of Exeter Street	Y	N	\$ 40,000	2.00	17
S4	Sidewalk Installation	Long Street	Clark Street	Simpson Street	install sidewalk where missing on north side	N	P25	\$ 40,000	7.00	2
S5	Sidewalk Installation	Long Street	Simpson Street	Exeter Street	install sidewalk on both sides	Y	P24	\$ 300,000	7.00	2
S6	Sidewalk Installation	Simpson Street	Leonard Street	Long Street	install sidewalk on west side	N	N	\$ 200,000	7.00	2
S7	Sidewalk Installation	Leonard Street	Riverview Ave	Simpson Street	install sidewalk on west side	N	N	\$ 200,000	6.00	11
S8	Sidewalk Installation	Sussex Street	Sunset Ave	Oxford Street	install sidewalk on west side	Y	P51	\$ 440,000	8.00	1
S9	Signing and Striping	Long Street	Bittner Street		add school crossing signs and crosswalk striping on east leg	Y	N	\$ 10,000	3.00	15
S10	Sidewalk Installation	Oxford Street	Cornwall Street	Bonnet Drive	install sidewalk on south side	N	N	\$ 80,000	6.00	11
S11	Sidewalk Installation	Lancaster Street	Cornwall Street	Exeter Street	install sidewalk on north side	N	N	\$ 350,000	6.00	11
S12	Sidewalk Installation	Riverview Avenue	Walden Street	Sunset Ave	install sidewalk on west side	N	Y	\$ 370,000	7.00	2
S13	Sidewalk Installation	Cornwall Street		Oxford Street	install sidewalk on both sides	N	P14	\$ 940,000	7.00	2
S14	Sidewalk Installation	Summit Street		Oxford Street	install sidewalk on east side and where missing on west side	N	P46	\$ 820,000	7.00	2
S15	Sidewalk Installation	Bonnet Drive	beginning of rd	Oregon City Boulevard	install sidewalk on east side	Y	N	\$ 160,000	6.00	11
S16	Sidewalk Installation	Walden Street	Riverview Ave	Long Street	install sidewalk on west side	Y	Y	\$ 90,000	7.00	2
S17	Signing and Striping	Various			replace existing school speed limit signs with flashers	Y	N	\$ 30,000	3.00	15

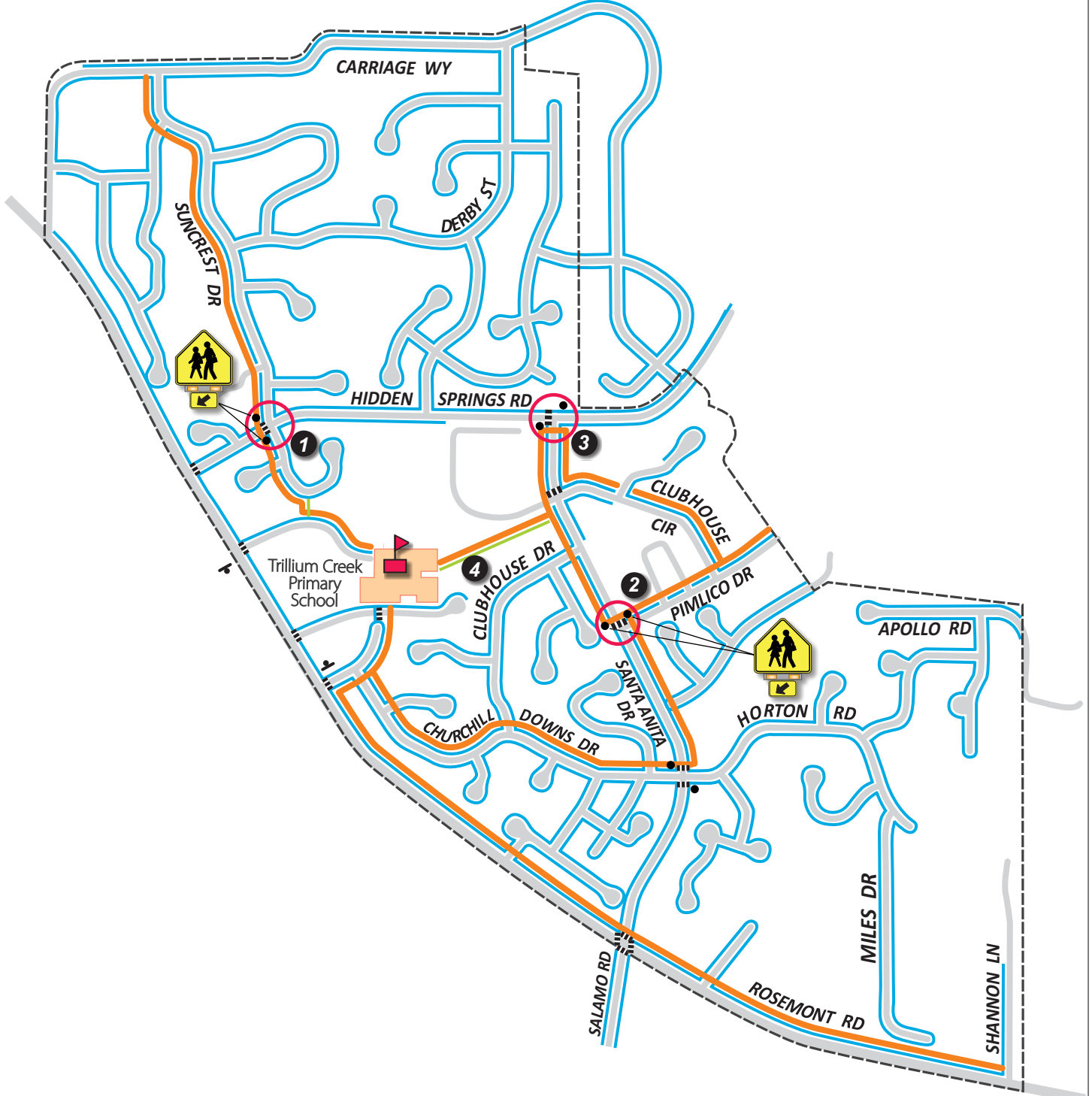
TOTAL COST \$ 4,420,000

Legend

- Trillium Creek Primary Safe Route to School
- - - Recommended Sidewalk Infill
- Recommended Pedestrian Crossing Improvements
- Recommended Crosswalk
- # Project Number
-  No Scale

Existing Conditions

- Existing Sidewalk
- Off-Road Path
- Existing Crosswalk
- Crossing Sign
- ▲ Flashing School Speed Limit Sign
- - - Walking Boundary for Trillium Creek Primary School



DKS

Figure 0

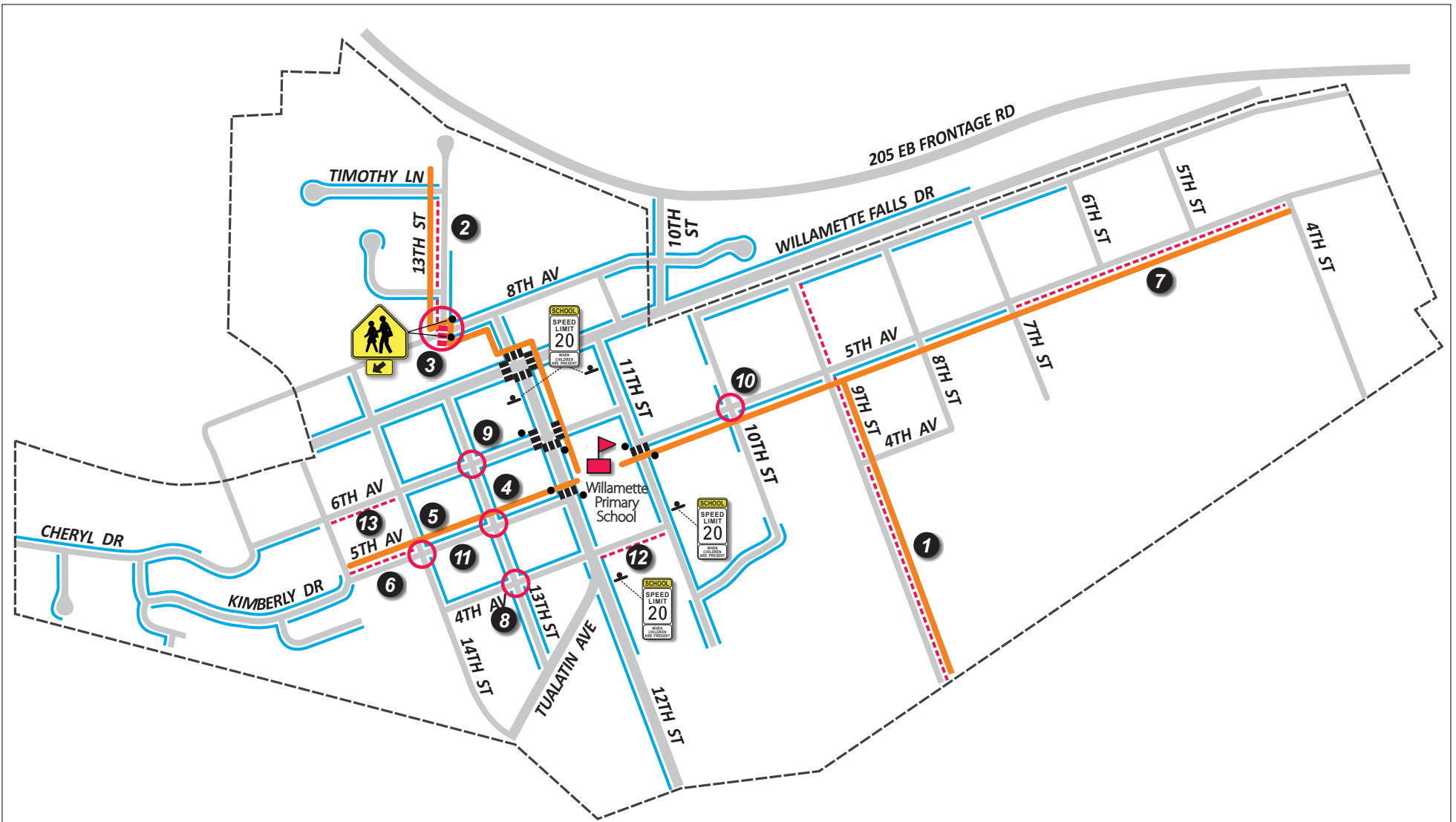
Recommended

Trillium Creek Primary School Safe Routes to School

Trillium

Project #	Project Type	Roadway	From	To	Project Description	On Safe Route?	TSP?	Cost Estimate	Priority Scoring	Priority Ranking
T1	Ped Crossing Improvements	Hidden Springs Road	Suncrest Drive		install curb ramp on NE corner, replace existing ped crossing signs with RRFB	Y	N	\$ 80,000	6.00	1
T2	Ped Crossing Improvements	Santa Anita Drive	Pimlico Drive		replace existing ped crossing signs with RRFB, improve lighting	Y	N	\$ 90,000	3.00	4
T3	Ped Crossing Improvements	Hidden Springs Road	Santa Anita Drive		install pedestrian refuge island, improve lighting	Y	N	\$ 40,000	4.00	3
T4	Off-path improvements	Off-road path on east side of Trillium			change path to asphalt and add lighting	Y	N	\$ 170,000	6.00	1

TOTAL COST \$ 380,000



Legend

- Willamette Primary Safe Route to School
- - - Recommended Sidewalk Infill
- Recommended Pedestrian Crossing Improvements
- ■ ■ Recommended Crosswalk
- Existing Sidewalk
- Off-Road Path
- ■ ■ Existing Crosswalk
- Crossing Sign
- ▲ School Speed Limit Sign
- - - Walking Boundary for Willamette Primary School
- # Project Number
- No Scale

DKS

Figure 0

Recommended
Willamette Primary Safe Routes to School

Willamette

Project #	Project Type	Roadway	From	To	Project Description	On Safe Route?	TSP?	Cost Estimate	Priority Scoring	Priority Ranking
W1	Sidewalk Installation	9th Street	Volpp Street	5th Ave	install sidewalk on east side	Y	N	\$ 870,000	7.00	2
W2	Sidewalk Installation	13th Street	8th Ave	Timothy Lane	install sidewalk on west side	Y	Y	\$ 240,000	8.00	1
W3	Signing and Striping	13th Street	8th Ave		add school crossing signs on east leg and crosswalk striping on east and north legs	Y	N	\$ 10,000	2.00	12
W4	Curb Ramp Installation	5th Ave	13th Street		install curb ramps at all 4 corners	Y	N	\$ 50,000	3.00	8
W5	Curb Ramp Installation	5th Ave	14th Street		install curb ramps at NE and SE corners	Y	N	\$ 50,000	3.00	8
W6	Sidewalk Installation	5th Ave	14th Street	15th Street	install sidewalk on north side	Y	N	\$ 90,000	7.00	2
W7	Sidewalk Installation	5th Ave	7th Street	4th Street	install sidewalk on south side	Y	N	\$ 390,000	6.00	6
W8	Curb Ramp Installation	13th Street	4th Ave		install curb ramps at NE, NW, SE corners	N	N	\$ 40,000	2.00	12
W9	Curb Ramp Installation	13th Street	6th Ave		install curb ramps at all 4 corners	N	N	\$ 50,000	2.00	12
W10	Curb Ramp Installation	5th Ave	10th Street		install curb ramps at SW and SE corners	Y	N	\$ 30,000	3.00	8
W11	Sidewalk repairs	5th Ave	12th Street	14th Street	sidewalk in poor condition - north side	Y	N	\$ 170,000	7.00	2
W12	Sidewalk Installation	4th Ave	11th Street	12th Street	install sidewalk on north side	N	N	\$ 90,000	7.00	2
W13	Sidewalk Installation	6th Ave	14th Street	15th Street	install sidewalk on north side	N	N	\$ 90,000	6.00	6
W14	Signing and Striping	Various			replace existing school speed limit signs with flashers	Y	N	\$ 30,000	3.00	8

TOTAL COST \$ 2,200,000