Legend **✓** Work Completed

Longv	ew School Zones Recommended Improvements								Update Information by	/ Longview Staff
ID#	School	Treatment	Location	Reason	Cost	Unit of Cost	Quantity	Total Cost	Notes	Status
1	Columbia Valley Gardens Elementary	Change the school speed zone start time to 7:00 AM	School Speed Limit Assemblies on 30th Avenue	Citywide consistency	\$25	/sign	2	\$100	Change to "When Flashing" Jan 2017	Paid by Traffic Budget
2	Columbia Valley Gardens Elementary	Replace SCHOOL plaque with arrow plaques (W16-5P or W16-6P) on School Zone Signs	School Zone Signs on Pine Street, Pennsylvania Street, and Pershing Way	MUTCD consistency Driver clarity	\$58	/sign	3	\$200		Paid by Traffic Budget
3		Add pedestrian crossing sign (W11-2) and diagonal downward pointing arrow plaque (W16-7P)	Marked crosswalk at 30th Avenue/Premier Place	Driver awareness	\$316	/sign	2	\$700		Paid by Traffic Budget
4	Columbia Valley Gardens Elementary	Install a marked mid-block crossing with longitudinal (high-visibility) markings, School Crossing Assemblies, and a RRFB	30th Avenue between Pine Street and Pennsylvania Street	School district recommendation	\$12,000	/crossing	1	\$12,000		School District Initiated Project
5	Columbia Valley Gardens Elementary	Remove the existing marked crossings and associated School Crossing Assemblies to encourage use of the mid-block crossing	Crossings at Pine Street and Pennsylvania Street	School district recommendation	\$250	/crossing	2	\$500		School District Initiated Project
6	Columbia Valley Gardens Elementary	Conduct an assessment of the illumination at the proposed midblock crossing to determine whether additional illumination is needed	Proposed crossing at 30th Avenue between Pine Street and Pennsylvania Street	Safety at proposed crossing	\$1,000	/evaluation	1	\$1,000		School District Initiated Project
7	Columbia Valley Gardens Elementary	Curb extensions	Proposed crossing at 30th Avenue between Pine Street and Pennsylvania Street	Other Applicable Treatment for Enhanced School Area	\$5,000	/curb extension	2	\$10,000		School District Initiated Project
8	Columbia Valley Gardens Elementary	Parking restrictions	Proposed crossing at 30th Avenue between Pine Street and Pennsylvania Street	Other Applicable Treatment for Enhanced School Area	\$144	/sign	4	\$600		School District Initiated Project
9	Columbia Valley Gardens Elementary	Changeable Message/Speed Feedback Sign	School zone entrances on 30th Avenue	Other Applicable Treatment for Enhanced School Area	\$4,000	/sign	2	\$8,000		Paid by Public Safety Fund
10	Columbia Valley Gardens Elementary	Post coverings	School warning signs	Other Applicable Treatment for Enhanced School Area	\$300	/sign	5	\$1,500		Not recommended by Staff*
11	Columbia Valley Gardens Elementary	Embedded LED sign borders	School zone entrances	Other Applicable Treatment for Enhanced School Area	\$2,750	/sign	2	\$5,500		Not recommended by Staff**
12	Columbia Valley Gardens Elementary	School zone pavement markings	School zone entrances	Other Applicable Treatment for Enhanced School Area	\$500	/marking	2	\$1,000	Assume used only at entrance to school zone	Not recommended by Staff****
13	Kessler Elementary	Change the school speed zone start time to 7:00 AM	School Speed Limit Assemblies on 20th Avenue, 18th Avenue, and Kessler Boulevard	Citywide consistency	\$25	/sign	5	\$200	Change to "When Flashing" Jan 2017	Paid by Traffic Budget
14	Kessler Elementary	Add additional signage or crossing treatments, such as embedded LED signs or RRFB (requires additional study).	Intersection of Beech Street/20th Avenue	Driver awareness of crossing	\$12,000	/treatment	1	\$12,000		Paid by Public Safety Fund and Grant
15	Kessler Elementary	Add speed limit sign at end of school speed zone	18th Avenue north of Delaware Street	Indicate end of school zone	\$173	/sign	1	\$200		Paid by Traffic Budget
16	IKessler Elementary	Replace SCHOOL plaque with arrow plaques (W16-5P or W16-6P) on School Zone Signs	Delaware Street (approaching both 18th Avenue and 20th Avenue) and on 21st Avenue	Indicate direction of school zone Driver awareness	\$58	/sign	3	\$200		✓ Paid by Traffic Budget
17	Kessler Elementary	Consider adding School Zone Sign Assembly (S1-1 w/ SCHOOL plaque) to indicate to drivers that they are still in a school speed zone after turning	18th Avenue and 20th Avenue north of Kessler Boulevard	Indicate school zone Driver awareness	\$259	/sign	2	\$600		✓ Paid by Traffic Budget
18	Kessler Elementary	Curb extensions	Crossings at 20th Avenue/Kessler Boulevard and 18th Avenue/Kessler Boulevard	Other Applicable Treatment for Enhanced School Area	\$5,000	/curb extension	4	\$20,000		Further Evaluation Needed
19	Kessler Elementary	Changeable Message/Speed Feedback Sign	School zone entrances on Kessler Boulevard	Other Applicable Treatment for Enhanced School Area	\$4,000	/sign	2	\$8,000	Assumed used at higher speed entrances to school zone	Paid by Public Safety Fund
20	Kessler Elementary	Post coverings	School warning signs	Other Applicable Treatment for Enhanced School Area	\$300	/sign	8	\$2,400		Not recommended by Staff*
21	Kessler Elementary	Embedded LED sign borders	School zone entrances	Other Applicable Treatment for Enhanced School Area	\$2,750	/sign	6	\$16,500		Not recommended by Staff**
22	Kessler Elementary	School zone pavement markings	School zone entrances	Other Applicable Treatment for Enhanced School Area	\$500	/marking	6	\$3,000	Assume used only at entrance to school zone	Not recommended by Staff****
23	Mint Valley Elementary	Change the school speed zone start time to 7:00 AM	School Speed Limit Assemblies on 38th Avenue	Citywide consistency	\$25	/sign	2	\$100	Change to "When Flashing" Jan 2017	Paid by Traffic Budget

ongv	<u>iew School Zon</u>	ool Zones Recommended Improvements					Update Information by Longview Staff			
ID#	School	Treatment	Location	Reason	Cost	Unit of Cost	Quantity	Total Cost	Notes	Status
24	Mint Valley Elementary	Replace SCHOOL plaque with arrow plaques (W16-5P or W16-6P) on School Zone Signs	Pennsylvania Street (approaching 38th Avenue)	Indicate direction of school zone Driver awareness of school zone	\$58	/sign	2	\$200		Paid by Traffic Budget
25	Mint Valley Elementary	Replace sign on in-street cone and sign with MUTCD compliant In-Street Sign (R1-6a, R1-6c, or S1-1 and W16-7P) at pedestrian crossing		MUTCD compliance	\$86	/sign	1	\$100		School District Responsibility
26	Mint Valley Elementary	Curb extensions	Crossing at Pennsylvania Street/38th Avenue	Other Applicable Treatment for Enhanced School Area	\$5,000	/curb extension	2	\$10,000		Further Evaluation Needed
27	Mint Valley Elementary	Changeable Message/Speed Feedback Sign	School zone entrances on 38th Avenue	Other Applicable Treatment for Enhanced School Area	\$4,000	/sign	2	\$8,000	Assumed used at entrances to school zone	Paid by Public Safety Fund
28	Mint Valley Elementary	Post coverings	School warning signs	Other Applicable Treatment for Enhanced School Area	\$300	/sign	6	\$1,800		Not recommended by Staff*
29	Mint Valley Elementary	Embedded LED sign borders		Other Applicable Treatment for Enhanced School Area	\$2,750	/sign	4	\$11,000		Not recommended by Staff**
30	Mint Valley Elementary	School zone pavement markings	School zone entrances	Other Applicable Treatment for Enhanced School Area	\$500	/marking	2	\$1,000	Assume used only at entrance to school zone	Not recommended by Staff****
31	Olympic Elementary	Replace SCHOOL plaque with arrow plaques (W16-5P or W16-6P) on School Zone Signs	Hemlock Street, Hawthorne Street, and Hudson Street	Indicate direction of school zone Driver awareness of school zone	\$58	/sign	4	\$300		Paid by Traffic Budget
32	Olympic Elementary	Add pedestrian crossing sign (W11-2) and diagonal downward pointing arrow plaque (W16-7P)	Crossings on 30th Avenue	Driver awareness of crossing locations	\$316	/sign	4	\$1,300		Paid by Traffic Budget
33	Olympic Elementary	Replace sign on in-street cone and sign with MUTCD compliant In-Street Sign (R1-6a, R1-6c, or S1-1 and W16-7P) at pedestrian crossing		MUTCD compliance	\$86	/sign	1	\$100		School District Responsibility
34	Olympic Elementary	Move the advance warning signs with flashing beacons farther from crosswalk (i.e. 200 feet) to provide more warning for drivers.	Crosswalk at 30th Avenue/Hudson Street	Provide more advance warning for drivers	\$400	/sign	2	\$800		Not recommended by Staff
35	Olympic Elementary	Curb extensions	Crossing at 30th Avenue/Hudson Street	Other Applicable Treatment for Enhanced School Area	\$5,000	/curb extension	4	\$20,000		Further Evaluation Needed
36	Olympic Elementary	Changeable Message/Speed Feedback Sign	School zone entrances on 30th Avenue	Other Applicable Treatment for Enhanced School Area	\$4,000	/sign	2	\$8,000	Assumed used at entrances to school zone	Paid by Public Safety Fund
37	Olympic Elementary	Post coverings	School warning signs	Other Applicable Treatment for Enhanced School Area	\$300	/sign	8	\$2,400		Not recommended by Staff*
38	Olympic Elementary	Embedded LED sign borders		Other Applicable Treatment for Enhanced School Area	\$2,750	/sign	4	\$11,000		Not recommended by Staff**
39	Olympic Elementary	School zone pavement markings	School zone entrances	Other Applicable Treatment for Enhanced School Area	\$500	/marking	2	\$1,000	Assume used only at entrance to school zone	Not recommended by Staff****
40	St Helens Elementary	Change the school speed zone start time to 7:00 AM	School Speed Limit Assemblies on Westbound Baltimore Street, Beech Street/30th Avenue, Southbound 27th Avenue, 28th Avenue	Citywide consistency	\$25	/sign	5	\$200	Change to "When Flashing" Jan 2017	Paid by Traffic Budget
41	St Helens Elementary	Replace SCHOOL plaque with arrow plaques (W16-5P or W16-6P) on School Zone Signs	27th Avenue, 28th Avenue, and 29th Avenue	Indicate direction of school zone Driver awareness of school zone	\$58	/sign	3	\$200		Paid by Traffic Budget
42	St Helens Elementary	SCHOOL plaque) to indicate to drivers that they are	27th Avenue north of Beech Street, on 28th Avenue north of Beech Street, and on Baltimore Street east of 26th Avenue	Indicate location of school zone	\$259	/sign	3	\$800		Paid by Traffic Budget
43	St Helens Elementary	Convert crosswalk markings to longitudinal (high- visibility) markings	Baltimore Street legs of crosswalk at 27th Avenue/Baltimore Street	Driver awareness of crossing location	\$2,500	/intersection	0.5	\$1,300		Paid by Public Safety Fund
44	St Helens Elementary	Add SCHOOL plague (S4-3P) to school zone sign	Westbound Baltimore in advance of crossing at Baltimore Street/27th Avenue	MUTCD compliance	\$38	/sign	1	\$100		Paid by Traffic Budget
45	St Helens Elementary	Curb extensions	Crossings at Beech Street/28th Avenue and Beech Street/27th Avenue	Other Applicable Treatment for Enhanced School Area	\$5,000	/curb extension	12	\$60,000		Further Evaluation Needed
46	St Helens Elementary	Speed humps (requires additional evaluation)		Other Applicable Treatment for Enhanced School Area	\$5,000	/treatment	4	\$20,000		Not recommended by Staff
47	St Helens Elementary	Changeable Message/Speed Feedback Sign	School zone entrances on Beech Street/30th Avenue	Other Applicable Treatment for Enhanced School Area	\$4,000	/sign	2	\$8,000	Assumed used at higher speed entrances to school zone	Paid by Public Safety Fund

Longview School Zones Recommended Improvements Update Information by Longview Staff Unit of Cost Quantity Treatment Location Notes Reason Cost **Total Cost** Status Other Applicable Treatment for School warning signs \$300 48 St Helens Elementary Post coverings /sign 18 \$5,400 Enhanced School Area Not recommended by Staff* Other Applicable Treatment for \$2,750 /sign 10 49 St Helens Elementary Embedded LED sign borders \$27,500 Enhanced School Area Not recommended by Staff** Other Applicable Treatment for 50 St Helens Elementary School zone pavement markings School zone entrances \$500 /marking 4 \$2,000 Enhanced School Area Assume used only at entrance to school zone Not recommended by Staff**** Add School Zone Sign with directional arrow plaque Indicate direction of school zone ✓ Paid by Traffic Budget 51 Mark Morris High School Exit from Triangle Shopping Center \$316 /sign 1 \$400 (W16-5P or W16-6P) Driver awareness of school zone MUTCD compliance (Speed Paid by Traffic Budget Mark Morris High School Remove Reduced School Speed Limit Ahead signs reduction is not greater than 10 \$100 \$50 /sign Other Applicable Treatment for ✓ Traffic Signal installed. 53 Mark Morris High School | Consider installation of a Pedestrian Hybrid Beacon 15th Avenue/Mark Morris Court \$200,000 /intersection 1 \$200,000 Enhanced School Area ✓ Paid by Pedestrian Safety \$400,000 \$0 54 Mark Morris High School | Consider installation of a Traffic Signal 15th Avenue/Mark Morris Court Driver awareness of crossing /intersection Grant, Public Safety Fund and School District Other Applicable Treatment for Paid by Public Safety Fund 2 55 Mark Morris High School | Changeable Message/Speed Feedback Sign School zone entrances on 15th Avenue \$4,000 /sign \$8,000 Enhanced School Area Assumed used at entrances to school zone Other Applicable Treatment for 56 5 \$1,500 Mark Morris High School Post coverings School warning signs \$300 /sign Enhanced School Area Not recommended by Staff* Other Applicable Treatment for 57 Mark Morris High School | Embedded LED sign borders \$2,750 /sign 2 \$5,500 Enhanced School Area Not recommended by Staff** Other Applicable Treatment for 58 Mark Morris High School School zone pavement markings \$500 /marking 4 \$2,000 School zone entrances Enhanced School Area Assume used only at entrance to school zone Not recommended by Staff**** Change Reduced School Speed Zone assembly to School Speed Limit Assemblies on 7th Avenue, Maple Broadway Learning Increased driver awareness on ✓ Paid by Public Safety Fund and 59 "When Flashing" and install flashers. Limit flasher \$5,000 4 \$20,000 /sign Center Street, and Broadway Street higher speed roadway operation to near school start times. Broadway Learning School Speed Limit Assemblies on 7th Avenue, Maple 60 Change the school speed zone start time to 7:00 AM Citywide consistency \$25 /sign \$0 ✓ Paid by Traffic Budget Street, and Broadway Street Change to "When Flashing" Jan 2017 Replace sign on in-street cone and sign with MUTCD Broadway Learning 61 compliant In-Street Sign (R1-6a, R1-6c, or S1-1 and MUTCD compliance \$86 /sign \$100 School District Responsibility Center W16-7P) at pedestrian crossing Replace Reduced Speed Ahead sign with MUTCD Broadway Learning ✓ Paid by Traffic Budget 62 7th Ave MUTCD compliance \$259 /sign 2 \$600 Center compliant sign (S4-5a) Broadway Learning ✓ Paid by Traffic Budget 63 Replace AHEAD plaques with SCHOOL (S4-3P) plaques | Maple Street and Broadway Street \$38 4 MUTCD compliance /sign \$200 Center **Broadway Learning** ✓ Paid by Traffic Budget Add speed limit sign at end of school speed zone Broadway Street west of 7th Avenue Indicate end of school zone \$173 /sign 1 \$200 Center **Broadway Learning** Other Applicable Treatment for 65 8 \$40,000 Curb extensions Crossing at 7th Avenue/Broadway Street \$5,000 /curb extension Further Evaluation Needed Center Enhanced School Area Restripe 2,000 linear feet of roadway to narrow the Other Applicable Treatment for **Broadway Learning** Narrow lanes (requires additional evaluation) 4000 66 \$2 \$8,000 Enhanced School Area Further Evaluation Needed Center Other Applicable Treatment for Broadway Learning Paid by Public Safety Fund and 67 Changeable Message/Speed Feedback Sign School zone entrances on 7th Avenue \$4,000 /sign 2 \$8,000 Assumed used at higher speed entrances to Enhanced School Area Center school zone Grant Other Applicable Treatment for **Broadway Learning** Post coverings School warning signs \$300 /sign \$1,200 Enhanced School Area Not recommended by Staff* Center Broadway Learning Other Applicable Treatment for Embedded LED sign borders \$2,750 /sign 2 \$5,500 Center Enhanced School Area Not recommended by Staff** Other Applicable Treatment for Broadway Learning 70 \$500 School zone pavement markings School zone entrances /marking \$2,000 Not Recommended by Staff**** Assume used only at entrance to school zone Enhanced School Area Center Columbia Heights ✓ Paid by Traffic Budget Parkview Drive/Laurel Park Drive \$50 /sign 2 \$100 Elementary/ Cascade Remove School Crossing signs MUTCD compliance Middle School Columbia Heights Paid by Traffic Budget Elementary/ Cascade Remove School Speed Limit Assemblies Parkview Drive/Laurel Park Drive. **MUTCD** compliance \$50 \$200 /sign Middle School

Longvi	<u>iew School Z</u> oi	nes Recommended Improveme	d Improvements			Update Information by Longview Staff				
ID#	School	Treatment	Location	Reason	Cost	Unit of Cost	Quantity	Total Cost	Notes	Status
73	Columbia Heights Elementary/ Cascade Middle School	Remove AHEAD sign from S1-1 signs to convert to School Area	Parkview Drive/Laurel Park Drive.		\$50	/sign	2	\$100		✓ Paid by Traffic Budget
74	Columbia Heights Elementary/ Cascade Middle School	Add pedestrian crossing sign (W11-2) and diagonal downward pointing arrow plaque (W16-7P)	Parkview Drive/Columbia Heights Road and Hillcrest Drive/Columbia Heights Road	Driver awareness of pedestrian crossing	\$316	/sign	4	\$1,300		✓ Paid by Traffic Budget
75	Columbia Heights Elementary/ Cascade Middle School	Remove SCHOOL plaque on speed limit sign and replace with School Area signs (S1-1)	Parkview Drive	Clarity about speed limit and school area	\$259	/sign	2	\$600		✓ Paid by Traffic Budget
76	Columbia Heights Elementary/ Cascade Middle School	Post coverings	School warning signs	Other Applicable Treatment for Enhanced School Area	\$300	/sign	3	\$900		Not recommended by Staff*
77	Columbia Heights Elementary/ Cascade Middle School	Embedded LED sign borders		Other Applicable Treatment for Enhanced School Area	\$2,750	/sign	3	\$8,300		Not recommended by Staff**
78	Northlake Elementary	Change the school speed zone start time to 7:00 AM	School Speed Limit Assemblies on Olympia Way and 22nd Avenue	Citywide consistency	\$25	/sign	3	\$100	Change to "When Flashing" Jan 2017	Paid by Traffic Budget
79	Northlake Elementary	Replace AHEAD plaques with SCHOOL (S4-3P) plaques	22nd Avenue and Olympia Way	MUTCD compliance	\$38	/sign	3	\$200		Paid by Traffic Budget
80	Northlake Elementary	Remove Reduced School Speed Limit Ahead Signs	Olympia Way	MUTCD compliance (Speed reduction is not greater than 10 mph)	\$50	/sign	2	\$100		Paid by Traffic Budget
81	Northlake Elementary	Remove School Crossing Assembly	Signalized intersection of Olympia Way/22nd Avenue.		\$50	/sign	3	\$200		Paid by Traffic Budget
82	Northlake Elementary	Curb extensions	Crossing at Olympia Way/22nd Avenue	Other Applicable Treatment for Enhanced School Area	\$5,000	/curb extension	2	\$10,000		Further Evaluation Needed
83	Northlake Elementary	Changeable Message/Speed Feedback Sign	School zone entrances on Olympia Way	Other Applicable Treatment for Enhanced School Area	\$4,000	/sign	2	\$8,000	Assumed used at higher speed entrances to school zone	Paid by Public Safety Fund
84	Northlake Elementary	Post coverings	School warning signs	Other Applicable Treatment for Enhanced School Area	\$300	/sign	3	\$900		Not recommended by Staff*
85	Northlake Elementary	Embedded LED sign borders		Other Applicable Treatment for Enhanced School Area	\$2,750	/sign	3	\$8,300		Not recommended by Staff**
86	Northlake Elementary	School zone pavement markings	School zone entrances	Other Applicable Treatment for Enhanced School Area	\$500	/marking	2	\$1,000	Assume used only at entrance to school zone	Not recommended by Staff****
87	Mt Solo Middle	Remove "End School Zone" sign on speed limit sign	Mt. Solo Road in northbound direction	Citywide consistency	\$50	/sign	1	\$100		Paid by Traffic Budget
88	Mt Solo Middle	Install Reduced Speed Ahead signs	Mt Solo Road	Driver awareness and warning on higher speed road	\$259	/sign	2	\$600		Not recommended by Staff***
89	Mt Solo Middle	Replace AHEAD plaques with SCHOOL (S4-3P) plaques	Mt Solo Road	MUTCD compliance	\$38	/sign	2	\$100		Paid by Traffic Budget
90	Mt Solo Middle	Change Reduced School Speed Zone assembly to "When Flashing" and install flashers. Limit flasher operation to near school start times.	Mt Solo Road	Increased driver awareness on higher speed roadway School district recommendation	\$5,000	/sign	2	\$10,000	Change to "When Flashing" Jan 2017	Paid by Public Safety Fund and
91	Mt Solo Middle	Add pedestrian crossing sign (W11-2) and diagonal downward pointing arrow plaque (W16-7P)	Crossings on Mt Solo Road at Horizon Court	Driver awareness of pedestrian crossing	\$316	/sign	2	\$700		✓ Paid by Traffic Budget
92	Mt Solo Middle	Add AHEAD placard (W16-9P) to pedestrian sign	Mt Solo Road in advance of crossing at Horizon Court	Driver advance warning of pedestrian crossing	\$58	/sign	1	\$100		✓ Paid by Traffic Budget
93	Mt Solo Middle	Changeable Message/Speed Feedback Sign	School zone entrances on Mt Solo Road	Other Applicable Treatment for Enhanced School Area	\$4,000	/sign	2	\$8,000	Assumed used at entrances to school zone	Paid by Public Safety Fund and Grant
94	Mt Solo Middle	Post coverings	School warning signs	Other Applicable Treatment for Enhanced School Area	\$300	/sign	2	\$600		Not recommended by Staff*
95	Mt Solo Middle	Embedded LED sign borders		Other Applicable Treatment for Enhanced School Area	\$2,750	/sign	2	\$5,500		Not recommended by Staff**
96	Mt Solo Middle	School zone pavement markings	School zone entrances	Other Applicable Treatment for Enhanced School Area	\$500	/marking	2	\$1,000	Assume used only at entrance to school zone	Not recommended by Staff****
97	R.A. Long High/ Monticello Middle	Relocate School Zone Assembly	Assembly on Lilac Street - relocate east of 28th Avenue	School district recommendation	\$400	/sign	1	\$400		Paid by Traffic Budget

		es Recommended Improveme							Update Information by	
ID#	School	Treatment	Location	Reason	Cost	Unit of Cost	Quantity	Total Cost	Notes	Status
98	R.A. Long High/ Monticello Middle	Zone sign and SCHOOL plaque	Crossing at Lilac Street/28th Avenue	MUTCD compliance	\$297	/sign		\$0	Only consider if school zone on Lilac Street is not moved	Paid by Traffic Budget
99	R.A. Long High/ Monticello Middle	Convert crosswalk markings to longitudinal (high- visibility) markings	East leg of Lilac Street/28th Avenue intersection	Driver awareness of pedestrian crossing	\$2,500	/intersection	0.25	\$700		Paid by Traffic Budget
100	R.A. Long High/ Monticello Middle	Curb extensions		Other Applicable Treatment for Enhanced School Area	\$5,000	/curb extension	8	\$40,000		Further Evaluation Needed
101	R.A. Long High/ Monticello Middle	Raised pedestrian crossings		Other Applicable Treatment for Enhanced School Area	\$10,000	/crossing	2	\$20,000		Not recommended by Staff ¹
102	R.A. Long High/ Monticello Middle	Speed humps (requires additional evaluation)		Other Applicable Treatment for Enhanced School Area	\$5,000	/treatment	2	\$10,000		Not recommended by Staff ¹
103	R.A. Long High/ Monticello Middle	Changeable Message/Speed Feedback Sign	Lilac Street	Other Applicable Treatment for Enhanced School Area	\$4,000	/sign	2	\$8,000	Assumed used at higher speed entrances to school zone	Not recommended by Staff ²
104	R.A. Long High/ Monticello Middle	Post coverings	School warning signs	Other Applicable Treatment for Enhanced School Area	\$300	/sign	8	\$2,400		Not recommended by Staff*
105	R.A. Long High/ Monticello Middle	Embedded LED sign borders		Other Applicable Treatment for Enhanced School Area	\$2,750	/sign	6	\$16,500		Not recommended by Staff**
106	R.A. Long High/ Monticello Middle	School zone pavement markings	School zone entrances	Other Applicable Treatment for Enhanced School Area	\$500	/marking	6	\$3,000	Assume used only at entrance to school zone	Not recommended by Staff****
107	Montessori Children's House	Add School Area Signs (S1-1)	Laurel Road	Driver awareness of school activity	\$259	/sign	2	\$600		Paid by Traffic Budget
108	Montessori Children's House	Add AHEAD placard (W16-9P) to pedestrian sign	Crosswalk at Columbia Heights Road and Burdick Place	Driver advance warning of pedestrian crossing	\$58	/sign	1	\$100		Paid by Traffic Budget
109	Montessori Children's House	Changeable Message/Speed Feedback Sign	Columbia Heights Road	Other Applicable Treatment for Enhanced School Area	\$4,000	/sign	2	\$8,000		Not recommended by Staff ³
110	Montessori Children's House	Post coverings	School warning signs	Other Applicable Treatment for Enhanced School Area	\$300	/sign	2	\$600		Not recommended by Staff*
111	Montessori Children's House	Embedded LED sign borders		Other Applicable Treatment for Enhanced School Area	\$2,750	/sign	2	\$5,500		Not recommended by Staff**
112	Three Rivers Christian School	Changeable Message/Speed Feedback Sign	Pacific Way	Other Applicable Treatment for Enhanced School Area	\$4,000	/sign	2	\$8,000		Not recommended by Staff ³
113	Three Rivers Christian School	Post coverings	School warning signs	Other Applicable Treatment for Enhanced School Area	\$300	/sign	1	\$300		Not recommended by Staff*
114	St. Rose Catholic School	Consider removing School Zone on Nichols Boulevard	Nichols Boulevard	Pattern of school activity	\$50	/sign	6	\$300		Paid by Traffic Budget
115	St. Rose Catholic School	Change Reduced School Speed Zone assembly to "When Flashing" and install flashers. Limit flasher operation to near school start times.	Nichols Boulevard	Increased driver awareness on higher speed roadway	\$5,000	/sign	2	\$10,000	Only if school zone on Nichols is retained	✓ Nichols School Zone Deleted
116	St. Rose Catholic School	Install Reduced Speed Ahead signs	Nichols Boulevard	Driver awareness and warning on higher speed road	\$259	/sign	2	\$600	Only if school zone on Nichols is retained	Nichols School Zone Deleted
117	St. Rose Catholic School	Replace AHEAD plaques with SCHOOL (S4-3P) plaques	Nichols Boulevard	MUTCD compliance	\$38	/sign	2	\$100	Only if school zone on Nichols is retained	Nichols School Zone Deleted
118	St. Rose Catholic School	Install advance warning signs (S1-1) with arrow plaques (W16-6P)	Washington Way approaches to Nichols Boulevard	Driver awareness of school zone location	\$316	/sign	2	\$700	Only if school zone on Nichols is retained	Nichols School Zone Deleted
119	St. Rose Catholic School	Remove School Advance Crossing sign and replace with School Zone sign with arrow plaque (W16-6P)	Colorado Street	MUTCD compliance	\$374	/sign	1	\$400		Paid by Traffic Budget
120	St. Rose Catholic School	Replace sign on in-street cone and sign with MUTCD compliant In-Street Sign (R1-6a, R1-6c, or S1-1 and W16-7P) at pedestrian crossing		MUTCD compliance	\$86	/sign	1	\$100		St Rose School Responsibility
121	St. Rose Catholic School	Convert crosswalk markings to longitudinal (high- visibility) markings	North leg of Colorado Street/26th Avenue intersection		\$2,500	/intersection	0.25	\$700		Paid by Traffic Budget
122	St. Rose Catholic School	Remove School Crossing Assembly	Signalized intersection of Washington Way/26th Avenue/Nichols Boulevard		\$50	/sign	3	\$200		Paid by Traffic Budget
123	St. Rose Catholic School	Curb extensions	Crossing at 26th Avenue/Colorado Street	Other Applicable Treatment for Enhanced School Area	\$5,000	/curb extension	2	\$10,000		Further Evaluation Needed
124	St. Rose Catholic School	Speed humps (requires additional evaluation)		Other Applicable Treatment for Enhanced School Area	\$5,000	/treatment	4	\$20,000		Not Recommended by Staff ¹

Longview School Zones Recommended Improvements									Update Information by Longview Staff	
ID#	School	Treatment	Location	Reason	Cost	Unit of Cost	Quantity	Total Cost	Notes	Status
125	St. Rose Catholic School	Changeable Message/Speed Feedback Sign	School zone entrances on 26th Avenue	Other Applicable Treatment for Enhanced School Area	\$4,000	/sign	2	\$8,000		Paid by Public Safety Fund and
126	St. Rose Catholic School	Post coverings	School warning signs	Other Applicable Treatment for Enhanced School Area	\$300	/sign	5	\$1,500		Not recommended by Staff*
127	St. Rose Catholic School	Embedded LED sign borders		Other Applicable Treatment for Enhanced School Area	\$2,750	/sign	2	\$5,500		Not recommended by Staff**
128	Robert Gray Elementary	Remove School Crossing signs	46th Avenue/Ohio Street	MUTCD compliance	\$50	/sign	2	\$100		Forwarded recommendations to Cowlitz County
129	Robert Gray Elementary	Add speed limit sign at end of school speed zone	Westbound Ohio Street	Indicate end of school zone	\$173	/sign	1	\$200		Forwarded recommendations to Cowlitz County
130	Robert Gray Elementary	Add SCHOOL plaque (S4-3P) to school zone sign	46th Avenue in advance of School Speed Limit Assembly	MUTCD compliance	\$38	/sign	1	\$100		Forwarded recommendations to Cowlitz County

Note: Improvements in *italics* indicate other applicable treatments that could be considered for further enhancement.

^{*}Post coverings not recommended because the treatments effectiveness doesn't significantly add to the safety of the schools zones vs. Flashers and Feedback Signs

^{**}Maintenance history with LED sign borders has been suspect. Staff is concerned about the effectiveness and longevity. Treatment doesn't signifiantly add to the safety of the school zone vs. Flashers and Feeback Signs.

^{***}Insuficient distant to place warning sign on Mt Solo Road between SR432 and beginning of school zone.

^{****}SCHOOL ZONE pavement marking in the travel lanes was changed from recommended to not recommended because of the overwhelming effectiveness of the speed feedback signs.

¹ Street will likely not meet speed hump policy.

² Speed Feedback Signs are used on Arterials and Collector.

³ Street does not have a School Speed Zone Assembly. No reduction to 20 mph is in place.