

SECTION 1: Existing Conditions – What is the Problem?

a) Both Centennial Academy/Elementary and Goddard Middle School (both LPS-Littleton Public Schools) could be strong biking and walking schools, but heavy traffic and major road crossings are huge hindrances to safe bicycle and pedestrian access. Large multifamily housing complexes exist on the east side of Federal Boulevard, where students from both schools live. The closest marked, signalized crossings on Federal to the proposed project location are half of a mile to the north at Belleview Avenue and a third of a mile to the south at Bowles Avenue. The project area in question has sidewalk on the north side of Berry Avenue, but no sidewalk along the park on the south side of Berry, which is immediately adjacent to Centennial Academy. An RTD stop exists in both the south and northbound lanes of Federal, forcing those desiring to go to the opposite side of the street to make the dangerous crossing at Federal and Berry. Additionally, no ADA-approved ramps at the site limit access for the disabled.

b) There have been five (5) accidents since 2008 at the intersection of Berry and southbound Federal. Three of the five accidents occurred during student drop-off/pick-up times at Centennial Academy. 2012 traffic counts show 16,874 total one day count of cars at the intersection. The speed limits on Federal Boulevard are 40 mph and traffic volumes at the times of day when elementary and middle school students need to cross create a dangerous situation. This project was specifically mentioned in the City's Bicycle/Pedestrian master plan as a needed safety and connectivity measure.

c) 1=Centennial Academy/Elementary 2= Goddard Middle School

School	Pop	Grades	Demographics	#Walk	#Bike	% 2 miles	Busing Distance	# Benefit	% F/R Lunch
1	523	K-5	B.3%, L26%, C65%, O.8.7%	80	20	68%	1 mile	523	43.6%
2	735	6-8	B1.8%, L21%, A4%, C66%, O7.2%	70	16	63%	1.5 miles	753	41.5%

d) See Attached LPS Wellness Policy (**ATTACHMENT 1**). Staff members at Centennial Elementary and Goddard Middle Schools serve as crossing guards. LPS has worked with the Littleton Fire Department in fire safety. Centennial Academy received a SRTS Educational grant and worked with Bicycle Colorado in a three week program where all students k-5 participated. The students learned riding techniques, bicycle safety and participated in a bike rodeo. Parents were involved in a week long encouragement phase of the program and learned about safe routes to their schools and walking school buses and bicycle trains. Maps were distributed to families and for one week the school was encouraged to actively commute rather than drive. LPS’s wellness coordinator painted paw prints to mark to safe routes leading into the school for students to follow from the four points in the neighborhood. Walking and biking is encouraged by the district and schools participate in both the “International Walk to School Day” in October and the “International Bike to School Day” in May.

e) MAP – 2 mile radius (**ATTACHMENT 2**)

f) Photos of existing conditions (**ATTACHMENT 3**)

SECTION 2: Tell us about your project.

- a) The project will install pedestrian activated crossing/traffic light in both directions of Federal Boulevard, install ADA ramps/truncated dome pads at each crossing point on Federal and Berry Avenue, stripe crosswalks on Federal and Berry and install approximately 300 feet of new (monolithic curb, gutter and) five-foot wide sidewalk on the south side of Berry Ave. from Federal Boulevard to Centennial Elementary. (Concept drawing: **ATTACHMENT 4**)
- b) Installation of two pedestrian-activated crossing/traffic lights, ADA-approved ramps at each curb cut, new crossings striped on both lanes of Federal and at Berry and about 300 feet of new sidewalk. It will facilitate a more convenient and safer crossing at this location and improve bicycle/pedestrian connectivity in this area of Littleton.
- c) Littleton Public Schools is dedicated to continuing its successful Safe Routes to Schools education and promoting walking and biking throughout the district. They employ a wellness coordinator to ensure parents and students are educated on walking and biking, and specifically will address the new infrastructure proposed by this grant. LPS will develop and distribute to parents and students new safe-routes maps and encourage continued use SRTS-purchased bike fleet by P.E. teachers to build skills and education around active self-transport. Each school maintains a book bike library for students in P.E. In coordination with the district, PTO's have wellness teams and coordinate activities including participation in "International bike to school day" and "walk to school day." The district wellness coordinator sends out information and flyers to promote walking and bicycling to schools.
- d) The project will be built and maintained by the City of Littleton and specifically will be maintained by the City's Public Works Department – Streets maintenance division.
- e) Yes, the project is entirely on City-owned right of way. Additionally, the City owns the park where the proposed sidewalk will be installed.
- f) DRCOG is aware of the project. The proposed project is consistent with the City's COMPLAN and specifically noted as a concern by Centennial Academy Principal when interviewed for the City's 2011 Bicycle and Pedestrian Plan. (**ATTACHMENT 5**)
- g) The project will provide printed materials to students and parents to explain the enhanced crossing project and education surrounding walking and biking to Centennial and Goddard schools. Additionally, LPS will paint paw prints to define the safe route. Finally, LPS, Bicycle Colorado and the City of Littleton's police and fire departments will collaborate on a week of encouragement and training on the new routes to schools, facilitate parent training on bicycle and walking school buses and provide a tire repair clinic at each school. Use of the new crossing and sidewalks will be discussed throughout the educational and encouragement component.
- h) The city of Littleton will support the schools for different walking and biking to school events throughout the year with police safety and fire department presence. They will also collaborate with the district for the encouragement week kick off.
- i) The project will be managed by Mike Braaten, Deputy City Manager, City of Littleton and the contact person for this grant. (**ATTACHMENT 6**)

SECTION 3: Project Timeline (max 1 page)

- a) CDOT engineer must sign cost estimate and timeline (see Section 6)
- b) Construction is estimated to be completed spring 2015.

Proposed Timeline:

Date	Milestone
April 2014	Project Award Notice
May-September 2014	Design, NEPA & ROW Clearances
September 2014	Authorization to proceed
September 2014	Parent Survey/ Student Tally
October 2014-March 2015	Bid Process - construction
March 2015	Educational program kickoff
April 2015	Parent Survey and Student Tally
Fall 2015	Project Closeout

Note: Timeline will be adjusted accordingly if Authorization to Proceed occurs later than September 2014.

SECTION 4: Who are your partners? (max 1 page)

Please provide the following information for your partners:

- a) Littleton Public School District:
Letters of support from 1. LPS Wellness Coordinator,
2. Centennial Academy Principal
3. Goddard Middle School Principal
4. President of the Centennial Academy Parent/Teacher/Student Organization
- b) The project was originally conceived by the Principal of Centennial during the development of the City of Littleton 2011 bicycle and pedestrian master plan. LPS will act as a subcontractor and continue their bike/pedestrian educational curriculum.
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- a) City of Littleton
Letters of Support from: Chief of Police and Mayor Brinkman
- b) The City will be responsible for the management, implementation and on-going maintenance of the proposed pedestrian improvements as well as management of the grant in general. The Littleton Police Department will assist in portions of the educational campaign and support the proposed safety improvements.
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- a) Livewell Colorado Healthy Eating Active Living Cities and Towns Campaign
- b) Livewell will assist the City and LPS as requested in promotion and education related to project (and other projects that promote active living). The City of Littleton is an active participant in LiveWell Colorado's HEAL Cities and Towns Campaign.
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C) FOR ALL ABOVE – SEE ATTACHMENT 7 – Letters of Support

SECTION 5: How will you measure your success?

- a) **Project outcomes?** The Project seeks to 1) increase parents trust and confidence in children walking and biking to school in the new safe route provided by the new infrastructure; 2) increase the number of students who choose to make the healthy decision to walk or bike to school; 3) reduce environmental pollutants by decreasing car trips and vehicle congestion related to the schools; 4) connect parents and identify safe routes for walking school buses and bicycle trains; and 5) Increase the number of parents walking and biking with their children.
- b) **Pre/post surveys?** Each school will conduct a pre- and post-survey travel tally and a parent survey. Each will record the number of students who participate in PE class-based educational component; finally, crossing guards or staff members will monitor the childrens' behavior and report any increase or decrease in safe pedestrian or cycling behavior to the principal or the district wellness coordinator.
- c) **How are you going to work with data after the project is built?** Littleton School District and the City of Littleton will track and review the pre- and post-program survey results for each school, compile feedback from the parent-preferred route surveys and combine these with behavioral observations at each school to help identify best practices and concerns that can be addressed. The schools and City will create safe routes signage around the schools. School staff will receive encouragement materials (parent training handouts, stickers, banners, etc.) to continue encouragement programs and can “check out” the bike fleet to ensure ongoing skill building and enthusiasm for biking.
- d) **Information sharing?** All the results will be shared with partner groups including, school principals, PTO groups, community leaders, law enforcement and health agencies that participate or support the program. The district wellness coordinator will support efforts to continue education with ongoing communications to parents (addressing specific issues that were identified during the program) through school newsletters and efforts to secure funding and support for a signage program for safe routes around Centennial Academy and Goddard Middle School.
- e) **Yes** – LPS currently collects and reports survey data to the National SRTS Center for 11 of their schools. Attached is the November 2012 and April 2013 Parent Survey and Travel Tally report for Centennial Academy. **(ATTACHMENT 8)**

SECTION 6 Budget Proposal (see following page for signatures)

Littleton Federal/Berry safety enhancements	Cost Estimate for Infrastructure (Capital) Projects			
Construction Engineering Items	Units	Quantity	Per Unit	Requested SRTS Funds
Signal poles and mast arms	EA	2	13,200	26,400
Three section signal heads	EA	4	449	1,796
Three section side of pole heads	EA	2	329	658
Pedestrian heads	EA	2	300	600
Pedestrian buttons	EA	2	104	208
Pedestrian signs	EA	2	44	88
Signal cabinet base	EA	1	675	675
Signal cabinet	EA	1	7,927	7,927
Caissons	EA	2	4,950	9,900
Install 5' monolithic curb, gutter, & sw 6" thick	SF	2216	6	13308
Install Handicap ramps, tactile	EA	5	3,300	16,500
Move irrigation, remove sod, and restore area	LS	1	2,750	2,750
Installation of signals	LS	1	13,200	13,200
Concrete and restoration work	LS	1	4,400	4,400
Pavement markings and signage done inhouse	LS	1	0	0
Traffic Control	LS	1	7,000	7,000
Mobilization	LS	1	5,000	5,000
SUBTOTAL				110,410
Educational component				
Newsletters and Maps with new safe routes (printing)				100
Parent education flyers (printing)				100
Painted Paw Prints to mark safe routes (paint)		1		100
Encouragement & Training Program		2	1,400	2,800
Parent training: bike trains/walking school bus (LPS In-house)			0	0
Tire Repair clinic		2	200	400
SUBTOTAL				\$3,500
Infrastructure				
				110,410
Educational				
				3,500
CDOT 5% Admin				
				\$5,696
Grand Total				
				\$119,606

SECTION 6: Budget Proposal Continued:

Signature of Local Agency Engineer: 

Date: 11/20/13 Phone# 3-795-3834

Signature of CDOT Region Engineer: 

Date: 11/27/13 Phone# 1303/512-5994

SECTION 7 Previous SRTS Grants: The City has not received prior SRTS grants.

SECTION 8: Subcontractors (max 1 page)

a) Littleton Public Schools (Robyn Zagoren, District Wellness Coordinator) and Bicycle Colorado (BC).

b) Yes

c) 1. LPS has received an SRTS Educational Grant working in partnership with Bicycle Colorado for 2012, 2013 and 2014. The grants included bike and pedestrian safety education with an encouragement week. The grants also included a bicycle fleet for sustainability and after school tire repair clinics. The following schools were included: Sandburg, Highland, Runyon, Centennial Academy, Peabody, Twain, East, Hopkins, Ralph Moody, and Franklin Elementary schools, and Euclid Middle School.

2. BC will assist LPS in providing Bike/Ped training and has done so for 144 schools from 2006-2014, impacting over 65,000 students for a cumulative contract amount of \$1,043,398.

(ATTACHMENT 9 – BC detailed breakdown of activities)

d) Centennial Elementary's Tallies are attached (**ATTACHEMENT 8**). Although there was no significant difference in walking and biking data collected, there were major infrastructure barriers for parents to overcome. BC will partner with LPS to collect and analyze data and has seen positive trends in many of the schools they've partnered including JeffCo, Littleton, Grand Junction, etc.

e) The efforts to walk and bike to school have been sustained throughout LPS. The majority of the school participate in the "International Walk and Bike to School Days" in October and May. The District Wellness Coordinator encourages all schools to continue to actively transport to and from schools. Many schools encourage students to walk and bike. A few schools are starting to look at encouragement days to promote SRTS. BC will continue to work closely with LPS in ensuring sustained bike/ped activities.

f) There will be safety training for the new infrastructure at Centennial and Goddard. There will also be tire clinics and new SRTS maps for each school. Encouragement flyers and education about the new infrastructure will be instrumental to making parents aware and the confidence to allow their children to actively transport to school and will all be done in cooperation with BC.

How will it be unique to this community and school(s)? It will be unique for each school to meet their needs. Centennial Academy is an Elementary school and will need education about the new crossing light and crossing safety with parent involvement. Goddard Middle School's focus will be pedestrian and bike issues as well as driving safely; preparing the students to be better drivers (and alert for bikes and pedestrians) as they move into high school and drivers' education.

ATTACHMENTS

1. **LPS Wellness Policy**
2. **Map – 2 mile radius**
3. **Photos of existing conditions**
4. **Project Concept Drawing**
5. **Excerpt from City of Littleton’s 2011 Bicycle & Pedestrian Master Plan**
6. **Project Manager Statement**
7. **Letters of Support:**
 - a. **LPS: District Wellness Coordinator**
 - b. **Centennial Academy Principal**
 - c. **Goddard Middle School Principal**
 - d. **Centennial Academy Parent/Teacher/Student organization (PTSO)**
 - e. **City of Littleton: Chief of Police**
 - f. **City of Littleton: Mayor**
 - g. **LiveWell Colorado HEAL Cities & Towns Campaign**
8. **Centennial Academy’s Survey/Tally for National SRTS Center**
9. **Bicycle Colorado detail**