PEDESTRIAN PASSAGEWAY

Goal: Provide safe passageway for students to cross busy streets through Colorado College campus
OBJECTIVE

• Separate pedestrian-vehicle accident potential so as to minimally impact site’s historic character and ensure student safety

• Provide a long term solution
OPTIONS CONSIDERED
Temporary versus Permanent

• Existing at-grade crossings with beacons along Cascade has resulted in small number of student-vehicle accidents over past decade

• Current options considered [traffic calming to lane reduction] are temporary solution; they do not eliminate pedestrian-vehicle accident potential
  – Rationale for options—there have been past accidents, but it is not a big enough problem to warrant anything other than reducing vehicle speed or create choke point with single lane traffic

• Permanent solution—pedestrian bridge or pedestrian underpass—has been dismissed too quickly as viable option
PEDESTRIAN BRIDGE

• Permanent solution since it de-conflicts pedestrians and vehicles
• Could degrade historic character of the site unless carefully planned
• Needs to meet approval of local Historic Preservation Office & Colorado State Historical Preservation Office [SHPO]
PEDESTRIAN UNDERPASS

• Permanent solution because it de-conflicts pedestrian and vehicles
• Can permit traffic calming while not restricting traffic flow or causing traffic congestion
• Other concerns with underpass are:
  – Student safety
  – Drainage
  – Historic character
  – Constructability
STUDENT SAFETY

• Incorporate security system linked to campus police and security lighting
• Incorporate natural lighting in passageway design as accomplished in Unitah bridge design over Monument Creek
DRAINAGE

• Incorporate pump and underground storage for future use on campus and/or
• Incorporate lift pump system to channel water runoff to street drainage system
HISTORIC CHARACTER

• Incorporate architectural treatments into the design compatible with the historic content of the campus and surrounding area
  – Treatments borrowed from historic structures on campus
• Include concrete paver walkways, cast stone elements, decorative balustrade walls, decorative fencing, ceramic tile, bronze hand railings
CONSTRUCTABILITY

• Small footprint approach using a compact structural design with traffic calming, but not impacting traffic flow
• Large footprint approach allowing easier access to passageway
• Designed to satisfy local Historic Preservation Office, SHPO and ADA standards
• Designed to accommodate small maintenance vehicular traffic safely
SMALL FOOTPRINT APPROACH

• Maintains 4-lane traffic flow
• Incorporate fence along median centerline
• Narrows median at passageway from 38’ wide to 10’ wide by moving both north and south bound lanes one lane toward the median centerline
• Permits use of outside lanes for ramp access to passageway
• Enhances traffic calming by slowing traffic at passageway location
SMALL AREA PLOT PLAN
LARGE FOOTPRINT APPROACH

- Maintains 4-lane traffic flow
- Incorporate fence along median centerline
- No change to existing median width
- Permits fan entry approaches [both sides of street], easing access to passageway
- Can protect existing large trees with islands in ramped fan entries [both sides of street]
EXAMPLES OF LARGE FOOTPRINT PLANS

• UCCS-North Nevada Shopping Passageway
• Briargate Blvd passageway in Cordera
• 30TH Street passageway at Garden of Gods Visitor Center
• UC Bounder passageway
UCCS-NEVADA PASSAGEWAY
BRIARGATE BLVD PASSAGEWAY
GARDEN OF GODS PASSAGEWAY
UC BOULDER PASSAGEWAY
Summary

• Colorado College can solve the pedestrian-vehicle conflict permanently with underground passageway:
  – Without impacting the historic character of the surrounding communities
  – Without restricting traffic flow destined to increase in the future