Five ideas or concepts for improving drainage conditions throughout the Camp Creek drainage corridor were the primary topics of discussion at the December 12 community meeting. About 60 people attended the meeting. Following a presentation of the concepts by the project team, participants worked in small groups to review and provide comments about what they liked and didn’t like about the concepts.

### Important Decisions Ahead at February 25th Community Meeting

Don’t miss the third in a series of community meetings about the Camp Creek Drainage Improvement Project:

- **6 p.m. Tuesday, February 25th**
- **in the cafeteria at Coronado High School, 1590 W. Fillmore Street.**

At the meeting, you’ll review and respond to revised alternative designs. The community’s responses to the concepts presented in December are being used in the development of the alternatives that will be the focus of the February 25th meeting.

The results of the February meeting will have a direct impact on the solution that is recommended by the project team. If you want to have an influence on that recommendation, it’s important that you attend the meeting.

All of the concepts presented and reviewed at the meeting would achieve the following:

- Reduce the area of the Pleasant Valley neighborhood that is at risk of flooding during large flood events
- Remove 224 residential properties and 13 commercial lots from the 100-year floodplain
- Reduce the amount of water flowing on 31st Street during large flood events
- Provide sediment collection improvements at the north end of Garden of the Gods (with sediment removal performed on an as-needed basis)
- Manage erosion of the natural channel in the Garden of the Gods
- Reduce risk that Gateway Road would be over-topped by water during large storm events
- Improve pedestrian and traffic safety
- Improve emergency access by reducing the potential for water on roadways during larger flood events
- Not impact existing on-street parking
- Not require residential property acquisition
- Have an option to realign Camp Creek near the confluence with Fountain Creek in conjunction with adjacent projects.

A full description of the features of each of the concepts and meeting participants’ responses to them may be found on the following three pages.

**Project engineers are being guided by participants’ responses as they prepare alternative design solutions for your review and response at the February 25th community meeting.**

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*These activities will take place on property that Wilson and Co. has licensed from Colorado Springs School District Eleven pursuant to Board of Education Policy KF. Our group has paid a full fee for the facility and, therefore, our rental of the facility is not supported by tax dollars identified for school use. Our use of a District facility represents neither agreement nor disagreement with our group’s goal, purpose, or statements by the Board, Administration, or the District.

(See a summary of all the Concepts presented at the December 12th meeting on the next two pages)
The following table summarizes the five Concepts that were presented by the Project Team and reviewed by participants in the December 12th community meeting. While all the Concepts have common elements which are listed on page 1, each of them also has distinct features and related implications. All meeting participants were provided this information as well as graphic illustrations of the Concepts.

<table>
<thead>
<tr>
<th>Concept</th>
<th>Unique Features</th>
<th>Unique Implications</th>
</tr>
</thead>
</table>
| A       | - Enlarges the 31st Street channel by making it deeper to increase capacity  
         - Replaces existing culverts and bridges with larger bridges to minimize restrictions in the 31st Street channel  
         - Channel lining similar to existing lining with rock bottom. May support some grass vegetation on bottom (similar to existing)  
         - Includes walls along the outside edges of the channel for traffic safety and to achieve required channel depth without widening the top width of the channel  
         - Has an option to raise Gateway Road and increase the size of its bridge to improve safe public access during large storm events | - 100-year floodplain contained in channel through Pleasant Valley neighborhood  
- No change to existing bike lanes  
- No change to outside edges of street  
- Provides improved emergency access to Pleasant Valley neighborhood during a 100-year rainfall event  
- Requires less construction in Garden of the Gods and Rock Ledge Ranch Historic Site than Concepts B, C, and E |
| B       | - Reconstructs 31st Street channel section and lining to be similar to the existing channel section and lining with rock bottom. May support some grass vegetation on bottom (similar to existing)  
         - Replaces culverts and bridges with larger bridges to minimize restrictions in the 31st Street channel  
         - Includes a wall along the west side of the channel for 100-year flood conveyance and traffic safety  
         - Includes a landscape strip along the east edge of the channel for flood conveyance, traffic safety and beautification  
         - Moves street closer to sidewalk on east side to accommodate landscape strip along channel  
         - Includes landscaped earthen detention basins in Garden of the Gods through raising Gateway Road to an elevation similar to adjacent 30th Street as it spans the Camp Creek Valley (16-foot maximum raise) and within Rock Ledge Ranch Historic Site by adding 11-foot high berms with existing parking area | - 100-year floodplain contained in 31st Street channel and streets through Pleasant Valley neighborhood  
- Improves emergency access during large flow events over the existing condition but doesn’t provide flood-free vehicular and pedestrian access to all portions of Pleasant Valley neighborhood during a 100-year flood event  
- No change to existing bike lanes  
- Moves east side of 31st Street closer to sidewalk  
- Conveying a portion of the Camp Creek flow in the street during large storm events presents potential hazards to motorists and pedestrians along 31st Street  
- Requires more construction in Garden of the Gods and Rock Ledge Ranch Historic Site than Concepts A and D |
<table>
<thead>
<tr>
<th>Concept</th>
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</thead>
<tbody>
<tr>
<td><strong>C</strong></td>
<td>Reconstructs the 31st Street channel to be wider and have flatter slide slopes than the existing channel</td>
<td>- 100-year floodplain contained in channel and streets through Pleasant Valley neighborhood</td>
</tr>
<tr>
<td></td>
<td>Replaces culverts and bridges with larger bridges to minimize restrictions in the 31st Street channel</td>
<td>- More natural appearance for 31st Street channel than Concepts A and B</td>
</tr>
<tr>
<td></td>
<td>Replaces the existing on-street bike lanes with a paved trail within the channel</td>
<td>- On-street bike lanes replaced by trail within channel. Trail to be constructed with walls above the expected level of flow during a 2-year flood event</td>
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<tr>
<td></td>
<td>Channel side slopes lined with native grasses</td>
<td>- Provides improved emergency access to Pleasant Valley neighborhood during 100-year flood event</td>
</tr>
<tr>
<td></td>
<td>Channel bottom lined with rock which may support some vegetation (similar to existing)</td>
<td>- May require moving street closer to sidewalks</td>
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<tr>
<td></td>
<td>Includes walls along the outside edges of the channel for traffic and pedestrian safety and additional walls to achieve required channel depth and capacity</td>
<td>- Trail in channel crosses streets at street level at bridges</td>
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<td></td>
<td>Includes landscaped earthen detention basins in Garden of the Gods through raising Gateway Road to an elevation similar to adjacent 30th Street as it spans the Camp Creek Valley (16-foot maximum raise) and within Rock Ledge Ranch Historic Site by adding 11-foot high berms with existing parking lot area</td>
<td>- Requires more construction in Garden of the Gods and Rock Ledge Ranch Historic Site than Concepts A and D</td>
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<td></td>
<td>Eliminates the on-street bike lanes along 31st Street</td>
<td>- Conveying a portion of the Camp Creek flow in the street during large storm events presents potential hazards to motorists and pedestrians along 31st Street</td>
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<td></td>
<td>Has option to raise Gateway Road and increase the size of its bridge to improve safe public access during storm runoff events</td>
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<tr>
<td><strong>D</strong></td>
<td>Replaces the open 31st Street open channel with underground box culverts</td>
<td>- 100-year floodplain eliminated throughout the Pleasant Valley neighborhood</td>
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<td></td>
<td>Includes a trail and native landscaping in the 31st Street median area over the box culverts</td>
<td>- No on-street bike lanes</td>
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<td></td>
<td>Eliminates the bike lanes along 31st Street</td>
<td>- Provides trail connection between Garden of the Gods and Fountain Creek</td>
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<td>Includes landscaped earthen detention basins in Garden of the Gods through raising Gateway Road to an elevation similar to adjacent 30th Street as it spans the Camp Creek Valley (16-foot maximum raise) and constructing an 19-foot high earthen landscaped dam in the northern end of the park</td>
<td>- No change to outside edges of street</td>
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<td>Has option to raise Gateway Road and increase the size of its bridge to improve safe public access during storm runoff events</td>
<td>- Provides emergency access to Pleasant Valley neighborhood during 100-year flood event</td>
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<td>Includes walls along the outside edges of the channel for traffic and pedestrian safety and additional walls to achieve required channel depth and capacity</td>
<td>- More natural median appearance than Concepts A, B, C, and E</td>
</tr>
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<td>Includes landscaped earthen detention basins in Garden of the Gods through raising Gateway Road to an elevation similar to adjacent 30th Street as it spans the Camp Creek Valley (16-foot maximum raise) and constructing an 19-foot high earthen landscaped dam in the northern end of the park</td>
<td>- Requires less construction in Garden of the Gods and Rock Ledge Ranch Historic Site than Concepts B, C, and E</td>
</tr>
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<td></td>
<td>Eliminates the on-street bike lanes along 31st Street</td>
<td>- Requires more extensive construction in Pleasant Valley neighborhood than Concepts A, B, C, and E</td>
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*(See meeting participants’ responses to the Concepts on next page)*
<table>
<thead>
<tr>
<th>Concept</th>
<th>Like About</th>
<th>Dislike About</th>
</tr>
</thead>
</table>
| **A**   | Appears cheaper  
          Keeps dimensions (width) the same  
          Deeper  
          High walls  
          Lessens impact on Garden of the Gods  
          Lessens impact on Rock Ledge Ranch Historic Site  
          Safety features [walls] keep cars out of channel | Cuts into parkway on east side of road  
          Safety of children and animals  
          General dislike of median strip/safety issues  
          Three-foot walls: dislike use; doesn’t prevent west side flooding since opening for streets floods anyway  
          Impacts on Rock Ledge Ranch Historic Site: major excavation; reduces parking for events  
          Impacts on Garden of the Gods: distracting, large detention ponds; potential impacts to the trail under 30th Street from the Visitor Center and to the Gateway Trail  
          People trapped on east side by flood waters  
          Sterile |
| **B**   | Shallower  
          Detention/design of channel minimized because of detention upstream/add restoration of detention areas  
          Solves the 3-foot wall issue  
          Like the dip reduction on Gateway [Road] |  |
| **C**   | Aesthetically pleasing: attractive landscaping; grass slopes appealing; like green look; 31st Street look/feel  
          Treats water as a natural asset and does not try to hide the creek  
          Bike trail: love the bike trail; gets bicycles off 31st Street; location in channel  
          Safety better: wildlife  
          Side slopes: 3-to-1 slopes a good idea—usable space; recommend 4-to-1 side slopes for grass areas—less erosion  
          Like chance of additional funding for trail  
          Not wasted if over-designed  
          Like stop/start flat part | Concern about loss of parkway; loss of landscaped area  
          Maintenance: landscaped area will need; sediment on bike path  
          Impacts on Rock Ledge Ranch Historic Site: major excavation; reduces parking for special events  
          Impacts on Garden of the Gods: distracting, large detention ponds; potential impacts to the trail under 30th Street from the Visitor Center and to the Gateway Trail  
          Walls: ugly; dislike; re-assess design flow to reduce size  
          Open ditch  
          Road crossing for bikes could be difficult  
          Like single span bridge crossings  
          Add additional width: don’t need 9-foot parking area—can include 2 feet of gutter |
| **D**   | Attractive aesthetics: landscaping; natural  
          No detention: lessens impacts to Rock Ledge Ranch Historic Site and Garden of the Gods  
          Bike trail continues to bike system  
          Usable space; ability to walk across street  
          Maximizes water flow/capacity  
          No walls along median  
          Separates bike trail from auto traffic  
          Eliminates bridges | Removes creek from view/neighborhood identity  
          Potential cost: appears to be very expensive; high cost  
          Difficult to maintain, inspect and remove debris  
          Potential to clog and divert flow to neighborhood  
          Safety of children if they get inside tunnels  
          No water for wildlife  
          Concern about 30th Street being realigned into 31st Street  
          Don’t like multi-barrel tunnel—use single span (3-sided box)  
          Springs have no place to exit |
| **E**   | Attractive aesthetics: landscaping; natural  
          Detention: like it in north end of Garden of the Gods; least intrusive to Rock Ledge Ranch Historic Site; raising Gateway Road  
          Bike trail continues to bike system  
          Usable space and ability to walk across street  
          Maximizes water flow/capacity  
          No walls along median  
          Separates bike trail from auto traffic  
          Eliminates bridges | Removes creek from view/neighborhood identity  
          Potential cost: appears to be very expensive; high cost  
          Difficult to maintain, inspect and remove debris  
          Potential to clog and divert flow to neighborhood  
          Safety of children if they get inside tunnels  
          Concern about 30th Street being realigned into 31st Street  
          Don’t like multi-barrel tunnel—use single span (3-sided box)  
          Detention: impacts visitor access to Garden of the Gods from Visitor Center; want all retention ponds  
          Not many people would use creek  
          Bridges and walls are sterile; need street lights |