



Previous Council Actions

- Floods focused attention on 25th Street – Feb 05
- Designated a high priority project – Nov '07
- Workshop and canyon hike - Jan '09
- Harris awarded PSR contract - Mar '10

Active Landslide Causing

- Threat to Life and Property
- Disruption of 25th Street access
- Threat to PVDE switchbacks

Challenges

- Flooding of 25th Street
- Switchbacks at risk
- Sanitary Sewer at risk
- Property at risk

Challenges

- Highly erodible canyon
(Tarapaca Landslide)
- Canyon eroding toward switchback
- 25th Street acting as Dam
- Inadequate inlet at 25th Street
- Canyon filled at 25th Street
- 30 foot head of water at 25th Street
- Limitations of existing storm-drain system in LA
- Right of Way requirements
- Environmental Sensitivity

Jurisdictional Issues

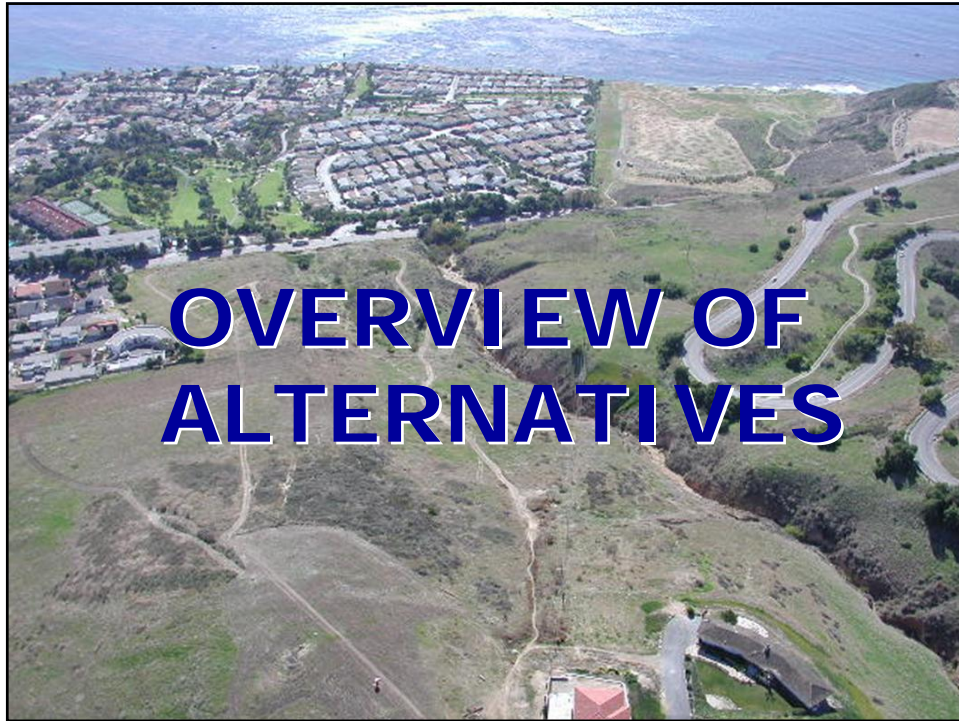
- Most of the canyon in RPV
- Lower 700-feet of canyon in CLA
- Existing storm drain system in CLA
- County owned Friendship Park
- LA County Flood Control has interest
- Joint maintenance agreement RPV/CLA

Primary Goals of Project

- Safeguard lives and property
- Protect PVDE switchbacks
- Provide all-weather access - PVDS/25th Street
- Minimize system maintenance
- Minimize Environmental impacts
- Improve water quality

Project Study Report

- Topographical survey
- Geological investigations
- Environmental impacts
- Cost assessments
- Five preliminary designs
- Design evaluations
- Two most suitable alternatives identified
- Design Switchback Stabilization Early Action Project



Two Most Suitable Alternatives

Tunnel Alignment (Staff Recommended)

- Project Cost Estimate - \$19.2 M (Planning Level)
- System totally within RPV
- Few Easement Issues
- No existing system limitations
- Shorter Project Timeline

Two Most Suitable Alternatives

Canyon Alignment

- Project Cost Estimate - \$17.9 M (Planning Level)
7% Lower Project Cost
- Multi Jurisdictional
- Utilizes existing LA storm drains
- Easement Issues
- Increased Environmental Impacts
- Longer Project Timeline

Key Evaluation Criteria - Two Most Suitable Alternatives

- Effectiveness
- Environmental impacts and mitigation
- Resource Agencies approval timeline
- Constructability
- Easements/Right of way Requirements
- Planning level cost
- Project Schedule
- Neighboring Jurisdictions' approvals
- Risk



Early Action Projects in Design

1. Stabilization of Switchbacks

Caisson design now 70% complete

- Protection of road for many years
- No interference with ultimate project
- Environmental approval secured
- Could be constructed in 3-months (if necessary)
- No 25th Street protection

Early Action Projects in Design

2. Land Movement Monitors

- License agreements
- Install survey monitor
- Regular monitoring until construction begin
- Increased monitoring during construction
- Continued monitoring after construction

Additional Project Identified

Relocation of 8" Sewer

- City owned sewer system
- Required regardless
- Relocation urgent



Move to Design (Produce a Project Report)

The Project Report will include:

- Detailed design
- Full environmental approval
- Public Information meetings
- Bid-ready documents

Schedule

- Design complete in 9-months from NTP
- Bid ready documents within 12-months
- Environmental 9-24 months after design
- Ready to bid in 18-33 months

Recommendations

- Identify Alternative 1A as Preferred Alternative
- Authorize Staff to solicit professional services for the preferred alternative design;
- Authorize Staff to proceed with the sewer relocation design;
- Direct Staff to provide regular land movement monitoring reports; and
- Direct Staff to continue pursuit of funding opportunities.

