UH Manoa
Drainage Master Plan

• Update DMP per 2007 Long Range Development Plan
• PRU requires DMP update by March 2013
• Previous DMP update in 1995
Offsite Drainage Area
Woodlawn Bridge
2004 Flood
Existing
Drainage System

• Pipe inspection
• Design Storm
• System capacity
Proposed UH Drainage System Improvements

- Relief Drain Line A
- Relief Drain Line B
Proposed DDC Mid Pacific Upgrade
Impacts of Proposed Mid Pacific Connection Upgrade

- Increased flooding in McCarthy Mall Area.
- Reduced capacity in Drain Line B
Interim Proposed Mitigation

• Portion of Relief Drain A
• Upsize McCarthy Mall Drain Lines
• Request Cost-Sharing Agreement with City
Proposed Interim Mitigation
Relief Drain A
Ultimate Drainage System Improvements

For 100-yr Storm, upgrade Drain Line B to 18’x6’ box
Alternate to 18’x6’ Box Drain
Watershed Opportunities

• Army Corps Ala Wai Watershed Project
• Proposed Projects Relevant to UH Manoa
• Potential Projects with other Government Agencies
  • Woodlawn Diversion
  • Mid Pacific Siphon
Woodlawn Diversion
Mid Pac Siphon
Conclusion

• Negotiate cost-sharing agreement with City for Mid Pac connection
• DMP will include discussion of ultimate improvements required for UH drainage system
• Work with Army Corps and Mid Pac to develop and include an offsite drainage improvement project in Ala Wai watershed study that would divert storm water away from campuses.