

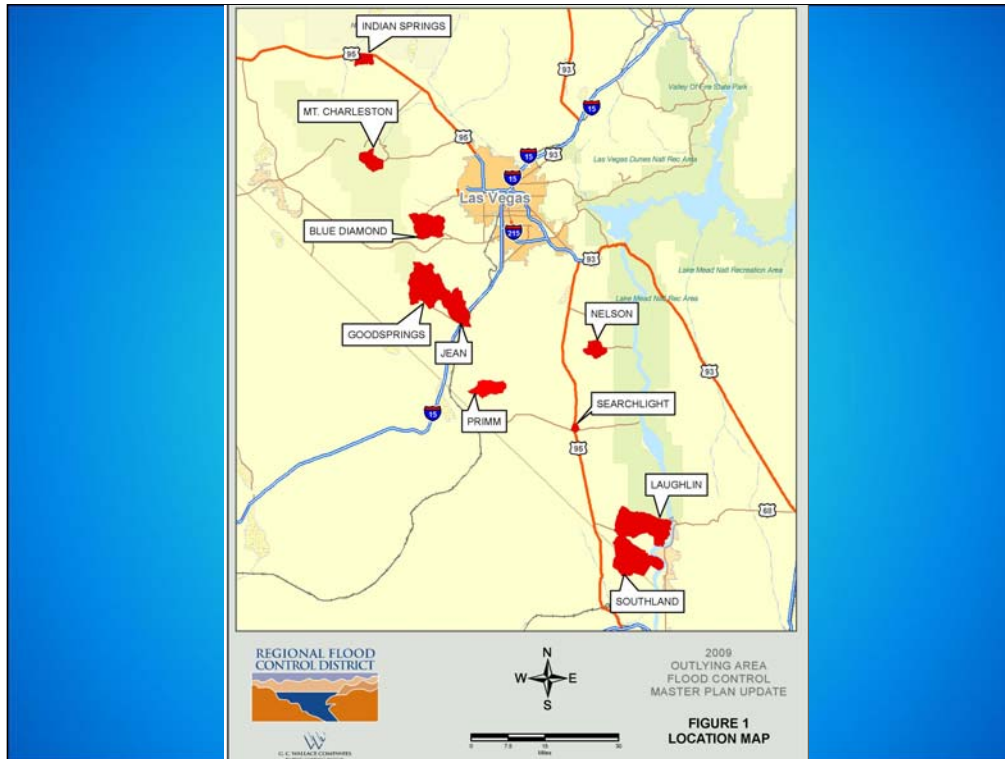
2009 Flood Control Master Plan Update Laughlin



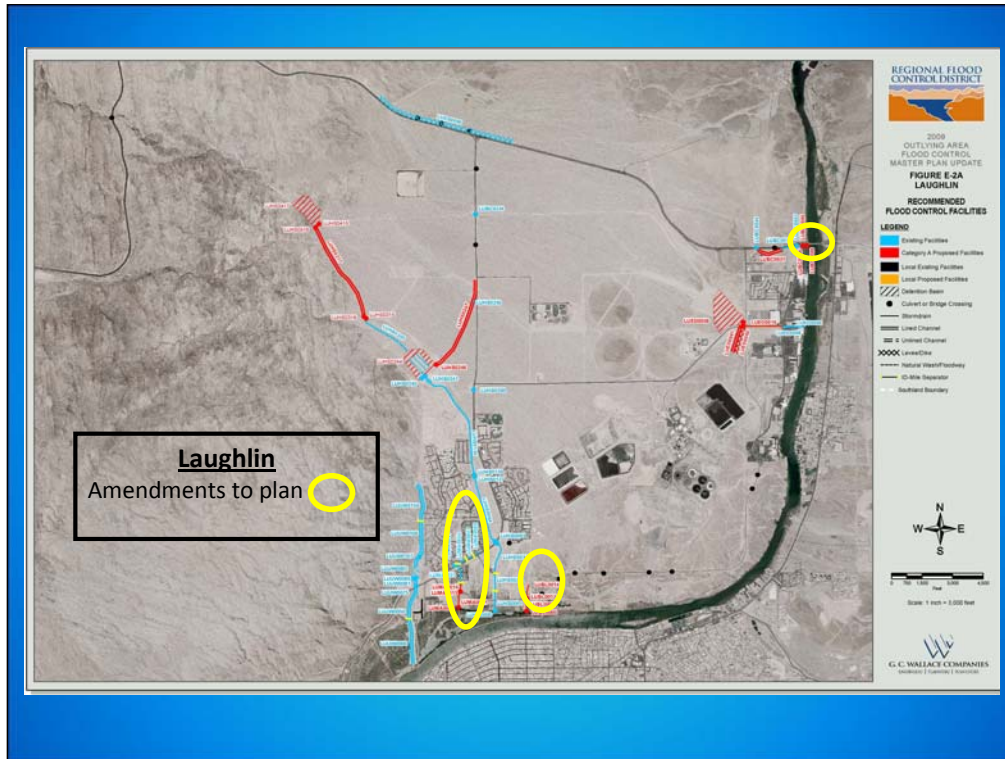
The Regional Flood Control District is required by NRS 543.596 to periodically update the flood control Master Plan. The currently adopted Flood Control Master Plan for Laughlin was adopted by the Regional Flood Control District Board of Directors in February 2004. The 2009 MPU represents the 4th update to the Flood Control Master Plan for the Laughlin area. The purpose of the Master Plan Update is to add any new relevant information to the Master Plan, to assess progress towards fulfillment of the Master Plan, update cost estimates and to recommend changes to the Plan resulting from growth and development.

Master Planning is the first of a 5 step process. The other steps are:

- Capital improvement programming. The Master plan cost estimates are used to schedule the next 2 steps for projects on a TYCP
- Final Design. More detailed design and cost estimating is completed. Right-of-way is acquired
- Construction
- Long term maintenance



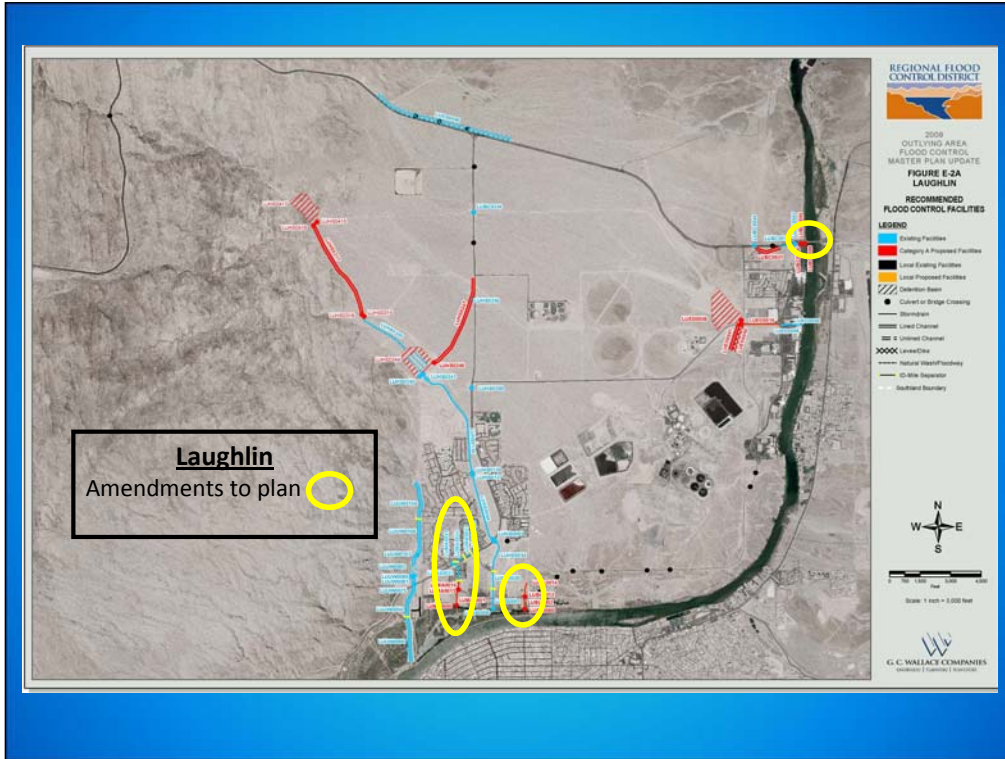
The flood control Master Plan Update for Laughlin was prepared as part of Outlying Areas MPU which addresses the flood control needs of nine towns in Clark County – Blue Diamond, Goodsprings, Indian Springs, Jean, Laughlin, Mt. Charleston, Nelson, Primm, and Searchlight. The 2009 MPU was prepared by GC Wallace and coordinated with Clark County Public Works and other departments, as well as with the Laughlin Town Manager’s Office and the TAB’s appointed representative, Mr. Bob Bilbray. This is the third presentation that District staff has made to the Laughlin TAB. In May 2008 we came before the TAB to advise the board that an MPU was being prepared and to solicit input. At the TAB’s request at that meeting, the 9000 acre Southland area was added to the scope of work. We provided an update on the MPU process and progress in October 2008. At this time we are before you again to present the results of the MPU and to request that you act to support and endorse the MPU before we take it to our Board of Directors and the BCC for adoption.



In many respects, the 2009 MPU is very similar to the currently adopted MPU. On this figure, facilities colored **BLUE** are complete, and those colored **RED** are recommended/proposed. Based on updated soils and land use information, the sizes of many of the recommended facilities has increased. This MPU also recommends that the MP be amended to include additional facilities.



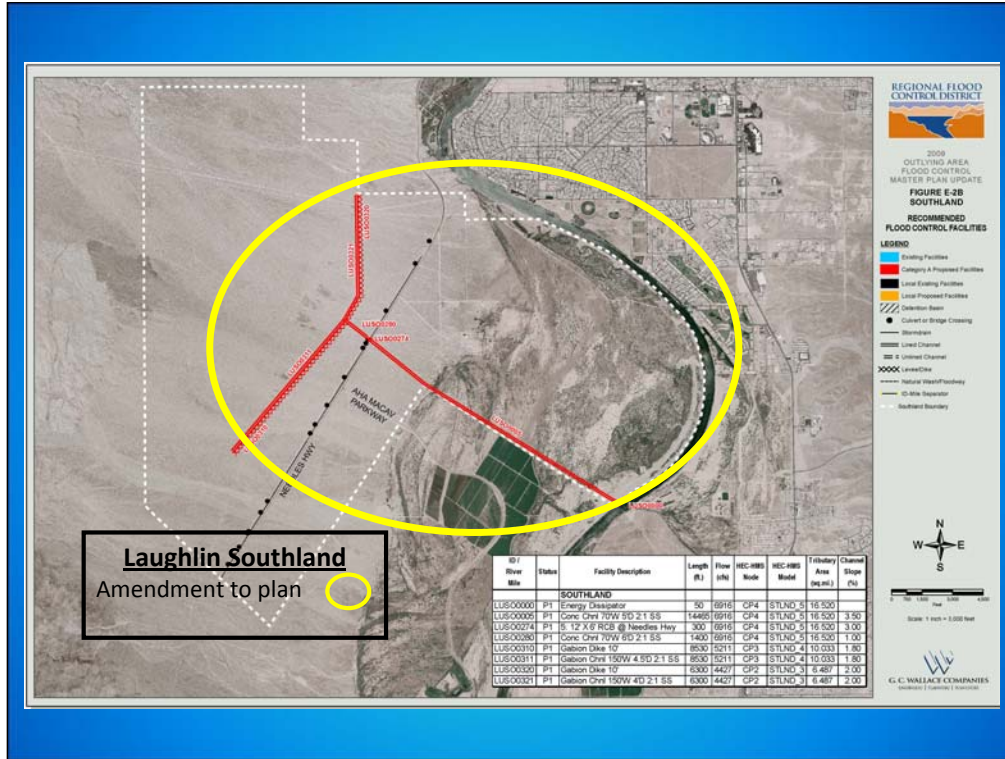
These newly recommended facilities include an extension of a storm drain under Casino Drive near SR-163, and an outfall to the Colorado River.



Two other systems are recommended to be added in Area 2.



These systems include adoption of the existing storm drain system under Needles Hwy and Desert Marina Drive, and extending that system to Laughlin Bay; and adding another system to safely convey runoff from the area east of Hiko Springs that does not drain to the existing Hiko Springs Channel.



As mentioned earlier, at the request of the TAB, the 9000 acre Southland parcel was added to the scope of work for this effort. As is the case for the other areas of Laughlin, future land use in the Southland area was based on the adopted Laughlin Land Use Plan (2007). In order to provide flood protection for the projected developments along and east of Needles Hwy, a system of collection dikes and channels is recommended to be added to the Plan.

Estimated Current Value of Existing Facilities

	<u>2004 MPU</u>	<u>2009 MPU</u>
Bridge Canyon	\$922,000	\$1,518,000
Dripping Springs	\$277,000	\$270,000
Edison Way	\$830,000	\$1,267,000
Hiko Springs	\$18,720,000	\$27,045,000
Unnamed Wash	\$5,392,000	\$10,142,000
Marina	---	\$2,610,000
TOTAL	\$26,141,000	\$42,852,000



As part of the MPU process, the estimated costs of both existing and proposed facilities has been updated to reflect current values. The cost estimates consider inflation as well as the actual construction costs of recently constructed flood control projects.

Estimated Costs of Recommended Facilities 2009 MPU

Bridge Canyon	\$1,166,000
Dripping Springs	N/A
Edison Way	\$6,830,000
Hiko Springs	\$18,356,000
Unnamed Wash	N/A
Marina	\$2,678,000
Bay Lagoon	\$2,478,000
Southland	\$44,652,000
TOTAL	\$76,160,000



The estimated cost of all proposed projects in the Laughlin Master Plan Update is \$76M.

Comparison of Master Plan Facilities Costs 2004 MPU vs 2009 MPU

<u>Costs</u>	<u>2004 MPU</u>	<u>2009 MPU</u>	<u>2009-2004 MPU</u>
ROW	N/A	\$483,000	\$483,000
Construction	\$12,590,000	\$20,161,000	\$7,571,000
New Laughlin Facilities	N/A	\$4,432,000	\$4,432,000
New Southland Facilities	N/A	\$35,547,000	\$35,547,000
Construction Contingencies	\$1,259,000	\$6,014,000	\$4,755,000
Design/Administration	\$2,182,000	\$9,523,000	\$7,341,000
Total Costs	\$16,031,000	\$76,160,000	\$60,129,000



As you can see on this slide, this represents an increase of \$60M above the cost estimate provided in the 2004 MPU. Approximately \$40M of that increase is the direct result of additional facilities that are newly recommended in the 2009 MPU.

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Questions?

