

# FLOODING EVENTS 1966-1970

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0	Year	Title of Newspaper Article	x	Key Words
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**0** - First Column is for the assigned newspaper article numbered in red

**Year** - Articles are all sorted by year

**Title of Newspaper Article** – Name of article

**x** – Separator between columns

**Key Words** – Key words in article

0	Ye	Title of Newspaper Article	x Key Word
1	February 6, 1968	Scottsdale Ponders Flood Plan	x Scottsdale, Flood Control Plan, U.S. Corps of Engineers, Scottsdale City Council, John R. Erickson, Four Channels, Two Reservoirs, Indian Bend Wash, Protect, Salt River Indian Reservation, Shea Boulevard, Town of Paradise Valley, Salt River for Drainage
2	February 6, 1968	Plan Aimed at Floods	x Controlling Floods, Indian Bend Wash, City Council, John R. Erickson, U.S. Corps of Engineers, Protect from Flooding, Scottsdale, Salt River Indian Reservation, Two Reservoirs, Four Diversion Channels, Shea Boulevard, Town of Paradise Valley, Salt River and Other Drainage Systems
3	July 10, 1968	Planners Ban More Wash Construction	x Maricopa County Flood Control District, Disapproving Construction, Sky-Slide, Indian Bend Wash, John Lowry, Chain Link, Dike, Flow of Floodwaters, McDowell Road and 76th Street, Use Permit was Granted, Erection of Scat-Tract, No Further Obstructions in Constricted Area of Wash, Existing Encroachments
4	July 31, 1968	Storm Causes Flood, Wind Damage in City	x Scottsdale, Rainfall, 1.16 Inches of Rain, Wind Damage, Lightning Bolts, Flooded Some Houses, Mud, Humid Air, Gulf of Mexico, Thick Layers, Warm Moisture-laden Air, Thunderheads, Monsoon Storms, Sandbags
6	October 1, 1968	No Wash Trouble Now? Center Okay Expected	x City Council, City Manager Bill Donaldson, Construction, Flood Dangers, Indian Bend Wash, Right-of-way, Develop Anti-flooding Measures, Flood Control, John Erickson, Retaining Dams, Scottsdale, Released, Controlled Amounts, Earth-lined Channel, Flood Flow, Flooding Dangers
7	October 2, 1968	Controversial Center Okayed	x Tentative Approval, Construction, Hayden and Thomas Roads, Flood Plan, Indian Bend Wash, Col. John Lowry, Maricopa County Flood Control District, City Manager Bill Donaldson, Large Culvert in Wash
10	October 14, 1968	Flood Plans Unsure - Wash-area Shop Center Okay Sought - Site Plan Ready	x Hayden and Thomas Roads, Flood Control Measures, Flood Control Plan, Indian Bend Wash, Concerns Residents, Diverting Flood Waters, Col. John Lowry, Maricopa County Flood Control District, City Manager Bill Donaldson
8	November 20, 1968	Flood-Curb Proposal 'Nightmare' - 'Concrete Canyon' Plan Dreaded	x Scottsdale, Indian Bend Wash, "Ravage Ravine", "Nightmare No. 1", Flooded, Downpour, "Nightmare No. 2", U.S. Corp of Engineers, Flood Control Channel, Flood Protection, "The Great White Chasm", "The Concrete Canyon", Utilitarian Concrete Lined Ditch, Bond Failed, John Erickson, Runoff, McDowell Mountains, Houses, Streets, Sidewalks
9	November 21, 1968	Scenic Parks May Replace Floods	x Scottsdale, Flood Control, Indian Bend Wash, Scenic Trip to Parks, Recreation Areas, John Erickson, Belt of Parks, Plantings of Trees, Arizona Canal, Salt River, Golf Courses, Outdoor Sports, Two Large Reservoirs, McDowell Mountains, Taliesin West, Town of Paradise Valley, Basins, Outflow Side, Runoff, Released as Needed, U.S. Corps of Engineers, Maricopa County Voters
5	December 19, 1968	Flood Building Ban Shifts Again	x Scottsdale, Indian Bend Wash Ordinance, Prohibit Construction, 100-Years, Revised Permit, Building, 50-Year Flood Level, County Flood Control District, What Can/Cannot be Built in Wash, Col. John Lowry, Inconsistent, McDonald Road Between 82nd and Granite Reef, FHA Approval, Industrial, Commercial, Recreational Facilities, Residential Development
28	January 6, 1969	New Wash Study Before Council	x Indian Bend Wash, Scottsdale City Council, John R. Erickson, Parks, Trails, Corps of Engineers, Ordinance, Prohibits Building in Wash, 100-year Flood Frequency, 50-year Flood Line, County Flood Control District, John Lowry
25	January 14, 1969	Indian Bend Wash Channel to be Topic	x Indian Bend Wash, John R. Erickson, Using Wash for Recreation, Corps of Engineers, Flood Protection, Land Usable, Concrete Storm Drain Channel, Paradise Valley, Scottsdale, Indian Tribal Council, Tempe, Phoenix

0	Ye	Title of Newspaper Article	x Key Words
26	January 15, 1969	Wash Project Assist Asked	x Indian Bend Wash Flood Control Project, Scottsdale, John Erickson, Phoenix, Paradise Valley, Maricopa County, Tempe, Salt River Indian Reservation, U.S. Corps of Engineers, Permit a Flood Control Zone, Two Flood Retention Basins, Arizona Canal, Southwest of McDowell Mountains, Southeast Across from Shea Boulevard, Salt River, Scottsdale Road, Indian Bend Road, Shallow Grass Lined Channel, Parks, Recreational
27	January 15, 1969	Budget Includes \$...	x Washington, President Johnson, Central Arizona Project, Colorado River, Phoenix, Tucson, Tat Momolikot Dam, Santa Rosa Wash Flood Control Project, Corps of Engineers, Bureau of Reclamation, Arizona
29	January 16, 1969	Flood Control Plan Explained	x Scottsdale, Approach to Flood Control, Decorative Uses of Land, Drainage Channel, John Erickson, "Erickson Plan", Washington, U.S. Corps of Engineers, Concrete Flood Channel, "The Concrete Canyon", "Great White Chasm", Storage Dams, McDowell Mountains, Gradual Release of Floodwaters, Green Belt, John Lowry, Maricopa County Flood Control
30	February 19, 1969	Shopping Center Obstacle Cleared	x Flooding Problem, Hayden and Thomas Roads, Shopping Center, Scottsdale City Council, Indian Bend Wash, SDC Corp., Natural Drainage Way, Ditch, Dug, Summer Floods, County Flood Control District, Displacing Floodwaters, John Erickson, Dispute, Cavalier Vista Subdivision, Probability of Flooding, Clearing Wash of Debris, City Manager Bill Donaldson
32	February 21, 1969	Ex-foe Backs Wash Plan	x Indian Bend Wash, Indian Bend Wash Improvement Assoc., Shopping Center, Deepening of Wash Channel, Thomas Road and 78th Street, Hayden Road, SDC Corp., Ditch, Dug, Better Flow, Culvert
31	February 22, 1969	Some Wash Members Oppose City Purchase	x Indian Bend Wash Improvement Assoc., Thomas Road, Hayden Road, SDC Corp., Channel Site, Excavated, Direct Water, Properties, Uniform Drainage, City Ordinances, Prohibit Construction, Potential Flood, 50 Years, Greenway Parkway, U.S. Corps of Engineers, Concrete Ditch
18	February 27, 1969	Haws to Emcee Dam Dedication	x Henry Haws, Maricopa County Supervisor, Master of Ceremonies, Rittenhouse Floodwater Retarding Structure, South of Apache Trail, Off Vineyard Road, Music, United States Air Force Band, Luke Air Force Base, Soil Conservation Service, Contractor William Pulice, Col. John C. Lowry, Flood Control District of Maricopa County, East Maricopa Soil Conservation District, Gila River Indian Reservation, Superstition Inn, Rittenhouse Dam
19	February 27, 1969	Land Acquisition For Dams Nears	x North and West Phoenix, Endangered by Flooding, Land, Cave Creek, Cave Buttes Dam, Reservoir, Dreamy Draw Dam, Col. John C. Lowry, Maricopa County Flood Control District, U.S. Corps of Engineers, Completed in 1973, Part of Federal Government, County, Right-of-way Acquisition, State Land Commissioner Obed Lassen, State, Grant Flowage Easements, No Cost
20	April 9, 1969	Conservation Tips - East Maricopa, Queen Creek, Tonto, Soil Conservation Districts	x Henry Haws, Maricopa County Supervisor, Master of Ceremonies, Rittenhouse Floodwater Retarding Structure, South of Apache Boulevard, Off Vineyard Road, Music, United States Air Force Band, Luke Air Force Base, Soil Conservation Service, Contractor William Pulice, Col. John C. Lowry, Flood Control District of Maricopa County, East Maricopa Soil Conservation District, Gila River Indian Reservation, Superstition Inn
21	April 10, 1969	Haws Speaks at Dedication of Dam Site	x Rittenhouse Flood Control Dam, Maricopa County, East Side, County Supervisor, Henry Haws, Dedication Ceremonies, Pinal County Dam Site, U.S. Soil Conservation Service, Dike, Powerline and Vineyard Road Dams, Williams Air Force Base, Queen Creek, Gilbert, General Motors Proving Ground, Flood Barriers, Maricopa County Flood Control District, Col. John C. Lowry

0	Ye	Title of Newspaper Article	x Key Words
22	April 11, 1969	Dedication Tomorrow for Rittenhouse Project	x Henry Haws, Maricopa County Supervisor, Master of Ceremonies, Rittenhouse Floodwater Retarding Structure, Principle Spillway Outlet, Apache Boulevard, Off Vineyard Road, Music, United States Air Force Band, Luke Air Force Base, Soil Conservation Service, Contractor William Pulice, Col. John C. Lowry, Flood Control District of Maricopa County, East Maricopa Soil Conservation District, Gila River Indian Reservation, Superstition Inn, Rittenhouse Dam
23	April 11, 1969	Rittenhouse Dam Cited as Work of 'Many Hands'	x Rittenhouse Dam, County Supervisor Henry H. Haws, Mesa, Maricopa and Pinal Counties, Federal and State Governments, City of Chandler, Soil Conservation Districts, Private Business, Apache Junction, U.S. Soil Conservation Service, Flood Barriers, Cost-Sharing, Earthen Dam, Flood Control District of Maricopa County, Col. John C. Lowry, Right-of-way, State Land Department, Easements, Token Costs, Vineyard Road, Pinal County Highway, Pinal County Agreed to Maintain Dams, Powerline Dam, Vineyard Road Dam, 8-mile-long Floodwater Diversion Channel
24	April 23, 1969	Conservation Tips - East Maricopa, Queen Creek, Tonto, Soil Conservation Districts	x Rittenhouse Flood Control Dam, Williams Air Force Base, Queen Creek, Gilbert, Henry Haws, Supervisor of Maricopa County, William Pulice Construction, Earth Fill, Benefit Cost Ratio, Chandler, General Motors Proving Ground, East Maricopa Soil Conservation District, Sonoqui Wash, Magma Dam, Lower Queen Creek, Gila Indian Reservation
13	April 24, 1969	Flood Control Budget Calls for 3 Dams	x County Flood Control Advisory Board, Right-of-way Acquisition, Three Dams, Protect Phoenix, Cave Buttes and Dreamy Draw Dams, Col. John C. Lowry, Maricopa County Flood Control District, Peoria, Sun City, Glendale, Avondale, New River Dam, Adobe Dam, Army Corps of Engineers, Soil Conservation Service, Black Canyon Freeway, Union Hills Drive, Champion New River Dam, New River, Union Hills Diversion Channel, Guadalupe Dam, South Phoenix Mountain Park, Guadalupe, Board of Supervisors
34	May 16, 1969	Student's Scale Model Aids Study of Salt River Floods	x Hydraulic Model Study, Salt River, Scottsdale Road, Tempe Bridges, Arizona State University Farm, High Flows, Miniature, Tempe Buttes, Hayden Flour Mill, Sun Devil Stadium, Information, Flow of the River, Dikes, Water Engineering Design, ASU Model, Future Occurrences, Model Construction
15	May 20, 1969	Tax \$275; Offer \$500; Price \$1500	x Parcel of Land, Appraised, Flood Control Project, Unimproved Desert, Phoenix, Owner, Demanding, Cave Buttes Detention Dam, cave Creek Dam, Condemnation Proceedings, Full Cash Value Assessments, Vacant Land, County's Vacant Land, Grossly Undervalued
16	May 20, 1969	Miniature Salt River	x Hydraulic Model Study, Arizona State University Farm, Tempe, Flow Patterns, Dikes, Hayden Flour Mill, The Buttes, Scottsdale Road
17	July 19, 1969	Harquahala Group on Flood Control has Complex Task	x Rights-of-way, Private, Federal, State Lands, Harquahala Valley, Bureau of Land Management, State Land Department, What Floods Can Do, Soil Conservation Service, Three Detention Dams, Debris Basin, Dikes, Centennial Wash, Big Arroyo, Buckeye-Roosevelt SCD
14	September 15, 1969	Channelization of Agua Fria is Defended	x Channelization, Aqua Fria River, Flooding Downstream, Gila, Avondale, Col. John C. Lowry, 1966 Salt River Runoff, Sierra Estrella Golf Course, No Damage, Road Flooded, Fill to Build Interstate 10, County Parks Department, Concern, Unundating Park, Dumping Water, Maricopa County Board of Supervisors, Casey Abbott Park, Flood, 200 Years, 1891 Salt River Flood, Water 300 Feet North of Washington Street, Phoenix, Standard Project Flood, Erosion, Water, Spread Out, Silt Left, Gila be Channelized Downriver, Westside Community Council, Removal, Saltcedars, 115th Avenue to Gillespie Dam, U.S. Corps of Engineers, 1957, Center of River, Game and Fish Department, Prevent Clearing
33	December 17, 1969	City May Ease Ban in Wash	x New Ordinance, Construction, Indian Bend Wash, Scottsdale City Council Meeting, Developers, Build Deeper, 50-year Frequency Flood, 100-year Flood Lines, Col. John Lowry, President Johnson, Continental Villas, Councilman Jack Sinimi, Lets Be Consistent

0	Ye	Title of Newspaper Article	x Key Words
11	October 28, 1970	The Mailbag - Flood Protection Needed Now	x Smaller Flood Control Districts, Scottsdale City Council, Sales Tax
12	October 29, 1970	Bulk of Plan Will go to Flood Works	x Indian Bend Wash, Flood Control Uses, Costs, Low Flow Channel, Low Flow Culverts, Undergrounding Arizona Canal, Grading, Flood Control Turf and Irrigation, Utility Relocation, Storm Drains, Development of Parks, Indian Bend Greenway, Army Corps of Engineers, Federal Aid, Public Facilities, Cultural Center, McCormick Park, McDowell Mountain Park, Improvement Districts

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*Phx. Gazette 2-6-68*

## Scottsdale Ponders Flood Plan

Gazette's Scottsdale Bureau

SCOTTSDALE — A flood control plan that would cost about half as much as one proposed some time ago by the U.S. Corps of Engineers is under study by the Scottsdale City Council.

The new plan, designed by John R. Erickson, a water resources engineer, would cost an estimated \$6.9 million.

ERICKSON'S plan provides for four channels and two reservoirs to relieve flood waters in Indian Bend Wash.

It would protect 18,000 acres of land in Scottsdale and another 11,000 acres in the Salt River Indian Reservation.

One of the reservoirs would be at the northeast corner of Scottsdale and the other near Shea Boulevard near the boundary with the Town of Paradise Valley.

THE FOUR channels would be in the southern part of Scottsdale and would lead to the Salt River for drainage.

The plan will be submitted to the U.S. Corps of Engineers for approval and, meanwhile, alternative methods of financing the program will be explored.

*Very Rep 2/6*

## Plan Aimed At Floods

SCOTTSDALE — A new \$6.9 million plan for controlling floods in the Indian Bend Wash was presented to the City Council at an informal session last night.

Designed by John R. Erickson, a water resources engineer, the plan would cost about half as much as another plan proposed several years ago by the U.S. Army Corps of Engineers.

The new proposed system would protect from flooding 18,000 acres of land in Scottsdale and 11,000 acres on the Salt River Indian Reservation.

THE COMPLEX protection system basically includes two reservoirs and four diversion channels. One reservoir would be at the northeast corner of Scottsdale and the other near Shea Boulevard near the boundary with the Town of Paradise Valley.

The four channels would relieve water accumulation in the southern portions of Scottsdale by diverting it into the Salt River and other drainage systems.

Scottsdale Progress

7-10-68

# Planners ban more wash construction

The city planning commission last night heeded advice of the Maricopa County Flood Control District in disapproving construction of a Sky-Slide in Indian Bend Wash.

Engineer John Lowry of the district sent the commission a letter saying that the erection of the slide and a proposed chain link fence "would act as a dike during the flow of floodwaters" in the wash.

After reading Col. Lowry's letter, Charles Hopwood of 5826 E. Windsor, developer of the proposed amusement ride,

asked commission members to suggest a denial of the project to the city council.

It was reliably reported that Hopwood needed the denial to gain legal cancellation of the lease of the land on which he had planned to build the slide south of McDowell Rd. and east of 76th St.

Two weeks ago homeowners in the area appeared before the commission objecting to the slide and claiming it would cause an added danger of flooding to their homes.

In his letter Col. Lowry in-

dicated he was unhappy over the fact his office was not involved in a hearing several months ago where a use permit was granted for the erection of a Scat - Track adjacent to the proposed site of the slide.

Col. Lowry claims the issuance of a permit for the construction of the slide would be a mistake and that approval would "certainly not correct previous mistakes of granting permits for the race track and the used car lot

which actually straddles the channel of Indian Bend Wash."

He urged the commission and city council to continue a policy of allowing "no further obstructions in this constricted area of the wash, so as to prevent additional possible damage to already - existing encroachments."

In other action the commission:

APPROVED a use permit for Paddock Pool Construction Co. to develop an additional

outdoor display area at the company's plant at 6525 E. Thomas Rd.

OKAYED a change in zoning from residential to service - residential a parcel of land near 75th St. and Monterey Way. Peter J. Merlino said he plans to construct a medical center on the site.

APPROVED a preliminary plat for the erection of 22 townhouses on Villa Monterey Subdivision No. 7 located on the east side of 76th St. north of Chaparral.

*Scottsdale Progress - 7-31-68*

## Storm causes flood, wind damage in city

Scottsdale received about one - seventh of its annual average rainfall last night as more than one inch drenched the city.

Last night's storm sat over the city and dumped 1.16 inches of water in the laps of Scottsdale's residents. Although wind damage from the storm was relatively mild, large quantities of rain and plentiful lightning bolts made problems of their own.

Lightning knocked out power in two large areas of Scottsdale. Power was out for 45 minutes from Thomas Rd. to Oak St. and from Pima to Hayden Rds. after lightning hit the Salt River Project's Bee-line Substation on Hayden Rd., SRP reported.

Residents along Shea Blvd. from Scottsdale Rd. to 124th St. lost their power for about an hour and 15 minutes when lightning hit a pole at 108th St. and Shea, Arizona Public Service said.

The heavy rain flooded some houses in Scottsdale and seeped into the basement of the Scottsdale Public Library, damaging about 200 of the books stored there. Most of the books can be repaired, according to the library staff.

The rain washed mud onto Camelback Rd. at about 57th St., temporarily blocking one lane. Mud also choked the parking lot at Dickson Electronics.

About the only case of wind damage reported this morning was a section of 20 - foot-high fence at Scottsdale Stadium which had been blown down.

Willard Groene, unofficial weatherman, says that starting about this time of year, humid air from the Gulf of Mexico moves in over the southwest in thick layers. If there is little wind, these layers of warm moisture-laden air will sit over an area until some disturbance starts

building up clouds. Because the layer of moist air is so deep, the thunderheads may tower up to 40,000 or 50,000 feet.

When such a storm cuts loose, Groene said, it releases large amounts of rain in a very small area with tremendous force. Groene noted that these monsoon storms are common in tropical countries. He also noted that for the next few weeks, the Valley can expect more of them.

To help prevent flooding, Scottsdale's Public Works Director Marc Stragier announced today that the city will provide sandbags to any homeowner who feels that his property is threatened by flooding. Stragier said that anyone who has a flooding problem should call his office.

Last night was the second major storm in Scottsdale this week. Saturday a storm with high winds seriously damaged a parochial school.

# Scottsdale *Daily* Progress

YOUR AWARD-WINNING HOMETOWN NEWSPAPER

30c Per Week — 10c Per Copy

SCOTTSDALE, ARIZONA, TUESDAY, OCTOBER 1, 1968

Vol. VIII, No. 181

No wash trouble now?

## Center okay expected

The city council tonight is expected to approve site plans for a controversial \$1 million shopping center at the northwest corner of Thomas and Hayden Rds.

Indications of approval came last night during an informal council meeting when City Manager Bill Donaldson disclosed that his staff did not think construction of the center would increase flooding dangers in Indian Bend Wash.

Developer Stewart Bowie was on hand to assure the council his SDC Corp. of Corona del Mar, Calif., had acquired right-of-way in the wash area to develop anti-flooding measures which would fit in with the city's over-all plan for flood control.

"It seems to be a very equitable solution to the problem," Donaldson said. "It could be a good start in our plans for the development of

the wash under the Erickson plan."

Engineer John Erickson, the city's flood control consultant, has proposed a plan in which retaining dams would hold water north of Scottsdale so that the water could be released at controlled amounts into an earth-lined channel in the wash.

City Public Works Director Marc Stragier agreed with Donaldson that the proposed

development would help, and not impede, the flood flow in the wash.

It was last March 19 that the council voted for an indefinite delay in the hearing on the site plans in order to give Bowie a chance to develop plans to channel the wash in a manner to decrease the flooding dangers to nearby homes.

Residents of a nearby subdivision had opposed the con-

struction, stating the ground-fill for the center would push floodwaters west into the vicinity of their homes.

Bowie told the council last night that representatives of his company had talked to many of the residents and they were now satisfied the flooding dangers would be decreased with the implementation of present plans for development of the channel by his company.

*Scottsdale Daily Progress 12-19-68*

# Flood building ban shifts again

By BOB DRISCOLL

Scottsdale would rather switch than fight when it comes to adopting a new Indian Bend Wash ordinance.

The proposed on - again, off - again ordinance was first written to prohibit construction within the boundaries of a flood of the intensity expected only every 100 years.

Two weeks ago it was revised to permit building up to the 50 - year flood level. Then, last week, it was switched back to 100 years.

Today, however, the city is drafting an ordinance with a

change back to the 50 - year limits.

A 100 - year flood would have a flow of 40,000 cubic feet per second. A 50 - year flood would have 20,000 cfs. Recent flooding in the wash has not exceeded 5,000 cfs.

The reason for all the switching is that the city wants to cooperate with the county flood control district, loaning agencies and others who have a voice in determining what can or cannot be built in the wash.

City officials have been rolling with the punches and whims of various agencies. That is, all city officials ex-

cept Councilman Jack Senini.

At Monday's council meeting Senini said he had heard enough double talk from the city's listening posts. He singled out Col. John Lowry, county flood control officer, as being the most inconsistent of the bunch.

"Let's be consistent," said the councilman. "We shouldn't allow some developers to build in the wash and not others."

Senini said he had lost confidence in Lowry who approves all of the city's building permits in the wash. The reason is that Lowry approved two developments in the

wash and then allegedly told the city to restrict others from building within the 100-year flood mark.

Lowry recently approved Continental Villas' 212-lot subdivision north of McDonald Rd. between 82nd and Granite Reef up to the 50-year flood control line.

Public Works Director Marc Stragier said Lowry prefers that residential subdivisions be required to build outside the 100 - year level and he did make an exception for two developers.

However, Stragier explained that the exception was based upon FHA approval for

the loan.

Stragier further said Wednesday that Lowry recommended establishing requirements for development of industrial, commercial and recreational facilities at the 50-year mark.

And, if any residential development could get financing at that level, Lowry said he would approve of it — although he believes that the 50-year flood control mark is inadequate for residential properties.

City Attorney Dick Filler said he will change the proposed ordinance for the third time — dropping the require-

ment from 100 - year - to 50-year flood protection —and present it at the special city council meeting next Monday.

Filler says he hopes the council will pass the ordinance with 50 - year standards because he believes it would be easier to defend in court, in case someone tests the city's power of restricting construction within the wash.

The city attorney also said he did not think the city could grant a building permit on the Continental Villas development, if the ordinance continues to restrict building to the 100 - year flood lines.

*Scottsdale Progress 10-2-68*

# Controversial center okayed

The city council last night gave tentative approval to the construction of a controversial \$1 million shopping center at Hayden and Thomas Rds. with a final public hearing set for Oct. 15.

Final approval of site plans will depend on whether the developers come up with a flood plan for Indian Bend Wash which will prove satisfactory to both city officials and residents across the wash to the west of the center.

Developer Stewart Bowie of SDC Corp. of Corona del Mar, Calif., assured the council his company will start engineers working on a project which will decrease the danger of flooding in the area.

Most of the opposition to the plan comes from Col. John Lowry of the Maricopa Flood Control, who is against any and all development in the wash until an over-all plan can be developed along the whole length of Indian Bend Wash.

City Manager Bill Donaldson said the SDC company flood control plans could be the start of implementation of the city's over-all plans for the wash.

Some of the residents of the area appeared to voice ac-

cord with the plan but said they would be happier if the city went ahead with a plan to put a large culvert in the wash where it crosses Thomas Rd.

In other action the council:

ACCEPTED a \$500 donation from the Scottsdale Sertoma Club for the purchase of a flagpole for the new city hall.

GAVE a vote of thanks to members of the Scottsdale Junior Women's Club who furnished a large flag for the flagpole.

CONTINUED for two weeks a request for permission to erect a temporary sales office for Doyle-Flynn and Associates at 68th St. and Camelback Rd.

AMENDED a site plan which will allow Bill Watkins Ford to erect a temporary building on McDowell near Scottsdale Rd. as an office for a used car lot. The council said the permit will have to be renewed every six months.

AWARDED a low bid of \$4,658 to Bentson Contracting Co. for paving and improvements at the intersection at Pima and McDowell Rds.

SET Oct. 15 as a hearing date on the Juanita Y Olmo Improvement District.

## FLOOD-CURB PROPOSAL 'NIGHTMARE'

# 'Concrete Canyon' Plan Dreaded

By DENNIS FARRELL  
(One of a Series)

SCOTTSDALE — City officials usually think of Indian Bend Wash as "Ravage Ravine" or "Nightmare No. 1."

The wash, which courses southward through the mid-section of Scottsdale, has been flooded on occasion in the past after a downpour.

But there also is "Nightmare No. 2."

THIS IS the name given by officials to a plan by the U.S. Corps of Engineers for a flood control channel down the wash. Welcome as flood

protection would be, the Corps' plan is held in something like mild dread.

Some refer to that plan as "The Great White Chasm." Others call it "The Concrete Canyon."

The Corps' plan, estimated to cost about \$12 million, calls for a flood control channel, a utilitarian concrete lined ditch, relieved only slightly by a bridge here and there, down the length of Indian Bend Wash.

ALTHOUGH some flood

control is needed in the wash, it may have been a blessing in disguise when a county bond election for flood control two years ago failed. If that issue had gone through, the "Concrete Canyon" probably would be under construction by this time.

After failure of the bond issue, Scottsdale city officials decided to see what they could do about getting flood control for the city alone.

THEY RETAINED John Erickson, a consulting engi-

neer, and made a few imaginative suggestions.

Scottsdale needs flood control to protect it from the runoff as far away as the McDowell Mountains northeast of here, as well as the water that is shed in an ever-growing area of houses, streets and sidewalks.

But, besides the basic purpose of flood protection, couldn't a plan be developed that would beautify the city, officials asked.

Next: Erickson's plan.

# Scenic Parks May Replace Floods

By DENNIS FARRELL  
(One of a series)

SCOTTSDALE — If this city's plans for flood control are carried out, Indian Bend Wash will be transformed into a scenic trip of parks and recreation areas.

The plans, drawn by John Erickson, a consulting engineer, call for a belt of parks and plantings of trees from the Arizona Canal to the Salt River.

BANKS OF the wash would be gently sloped downward to a flood control channel that would barely be noticeable. There would be pitch and putt golf courses, facilities for other outdoor sports and refreshment stands.

The floods would be held back in two large reservoirs, one on the southwest slope of the McDowell Mountains near Taliesin West, the other northeast of the Town of Paradise Valley.

These basins, which would be 40 feet deep at the outflow side, would hold back the runoff that otherwise would go down the wash.

THE WATER could be released as needed for beneficial uses, such as irrigation. The Arizona Canal, which nearly overflowed its banks in a major storm last year, would be protected from runaway water from Paradise Valley.

Erickson's plan calls for re-

servoirs that would contain the runoff from the McDowells and the desert from even the most severe storm.

The Scottsdale plan would cost about \$7 million, compared to an estimate of \$12 million for a flood control project designed by the U.S. Corps of Engineers.

TWO YEARS ago, Maricopa County voters turned down a bond issue that would have financed a flood control project that included the channel designed by the Corps.

The Scottsdale plan was developed since, and city officials are keeping their fingers crossed in the hope the

Corps favors it over its own design.

IF THE city's plan is okayed by the Corps, it is planned to finance the project through an improvement district and with some federal aid funds.

Besides taking care of the flood problem in the foreseeable future, city officials say, the plan also would provide enough parks and recreation facilities for the next 20 years.

11-21-68

Phx Gazette

**Flood plans unsure**

10-14-68  
Scottsdale  
Progress

# Wash-area shop center okay sought

## Site

reduced by such an improvement, it was reported.

The proposed shopping center site will extend partially into the wash, Donaldson said. It will not be enough to divert the flow of water, however, he said.

SDC engineers are determining how deep they will have to excavate to make sure that the flow of water rises no higher than before, he explained.

The council will have to be satisfied that the water level will go no higher than it has in previous years before it gives final approval for building of the shopping center, Donaldson added.

The Chrysler Realty Corp. will be back for approval of its site plan for a dealership at the Southwest corner of Scottsdale and Osborn Rds. This will be the second time council members have considered the automobile dealership facility.



*Scottsdale Progress*  
10/28/70

## The mailbag

### Flood protection needed now

Sir:

I read with dismay that the Chamber of Commerce is opposing the flood control plan sales tax. Some two years ago we began fighting for flood control. The CofC showed no interest in it.

Although our negotiations reaped only a small donation of right of way, it was a beginning. Now the CofC would like to await legislative action on creation of smaller flood control districts. This will help if it's ever passed, but how long will we have to wait for it? It will make necessary improvement districts and place the problems of flood control in jeopardy.

Improvement districts would require homeowners to pay through the nose. The Scottsdale City council feels those that use our city for winter homes and as a vacation spa could help defray the costs. What they are saying is "let's protect the homeowners."

Also, Scottsdale already has a sales tax (a small one) so the cost of setting up and administering this one per cent additional sales tax is negligible in comparison to other plans.

Heinz Hink stated the reason for the special election in no uncertain terms: "The citizens of Scottsdale have the right to decide this issue."

Sen. Conlan stated flood control would be supported by bonds if the legislature ever passes the creation of smaller flood control districts. Once again it would be supported by the property owner and this includes interest accrued. It would help those able to purchase the bonds to enhance their fortunes.

Sen. Conlan would do well to state all the facts and start thinking in terms of equal taxation instead of selecting certain people to finance projects.

REXBELL YOUNG  
President Indian Bend  
Wash Flood Control Citizens  
Community Council

# Bulk of plan will go to flood works

Sixty-two per cent of the revenue needed for the city's proposed \$35 million civic betterment package will go into flood control, according to city officials.

The total cost of acquiring and developing the Indian Bend Wash for flood control uses is estimated at \$18.5 million.

Acquisition of the wash, on a three-year program, is expected to cost \$3.5 million. Development costs have been estimated at \$10 million, broken down like this:

- Low flow channel for 3,500 cubic feet per second, \$750,000;
- Low flow culverts at one-mile streets, \$750,000;
- Undergrounding the Arizona Canal as it crosses the wash, \$1 million;
- Grading to carry 30,000 cfs, \$1 million;
- Flood channel turf and irrigation, \$5.5 million;

Utility relocation, \$1 million.

The remaining \$5 million would go for storm drains, deemed necessary if complete flood control is to be realized.

An estimated \$10 million originally included in the proposal for development of parks in the Indian Bend Greenway has been removed. The \$5.5 million designated for turf and irrigation is necessary, city officials say, in order that a usable channel plan can be presented to the Army Corps of Engineers, which has offered its assistance in the project.

The maximum federal aid available under existing programs for the flood control section of the package is \$8.7 million.

Flood control has been given top priority by the city, with one section of public facilities next.

The public facilities proposal includes

neighborhood referral centers, a cultural center, development of McCormick Park and the McDowell Mountain Park.

However, only the neighborhood referral centers have been given priority. The estimated cost is \$500,000 with up to \$350,000 in federal aid available.

The price tags for the cultural center and McCormick Park have been set at \$2 million each, and federal aid for half could be procured. The expected \$1.5 million cost for McDowell Mountain Park could be fully funded by federal assistance.

Parkings and malls, listed under the downtown preservation section of the proposal, have received the other priority by City Council and city staff members.

Although no federal aid is available, the estimated \$2.7 million could be raised through improvement districts.

Also under the downtown preservation heading are streets and an historical zone. The street cost is estimated at \$2 million with \$1.3 million potentially available from the government.

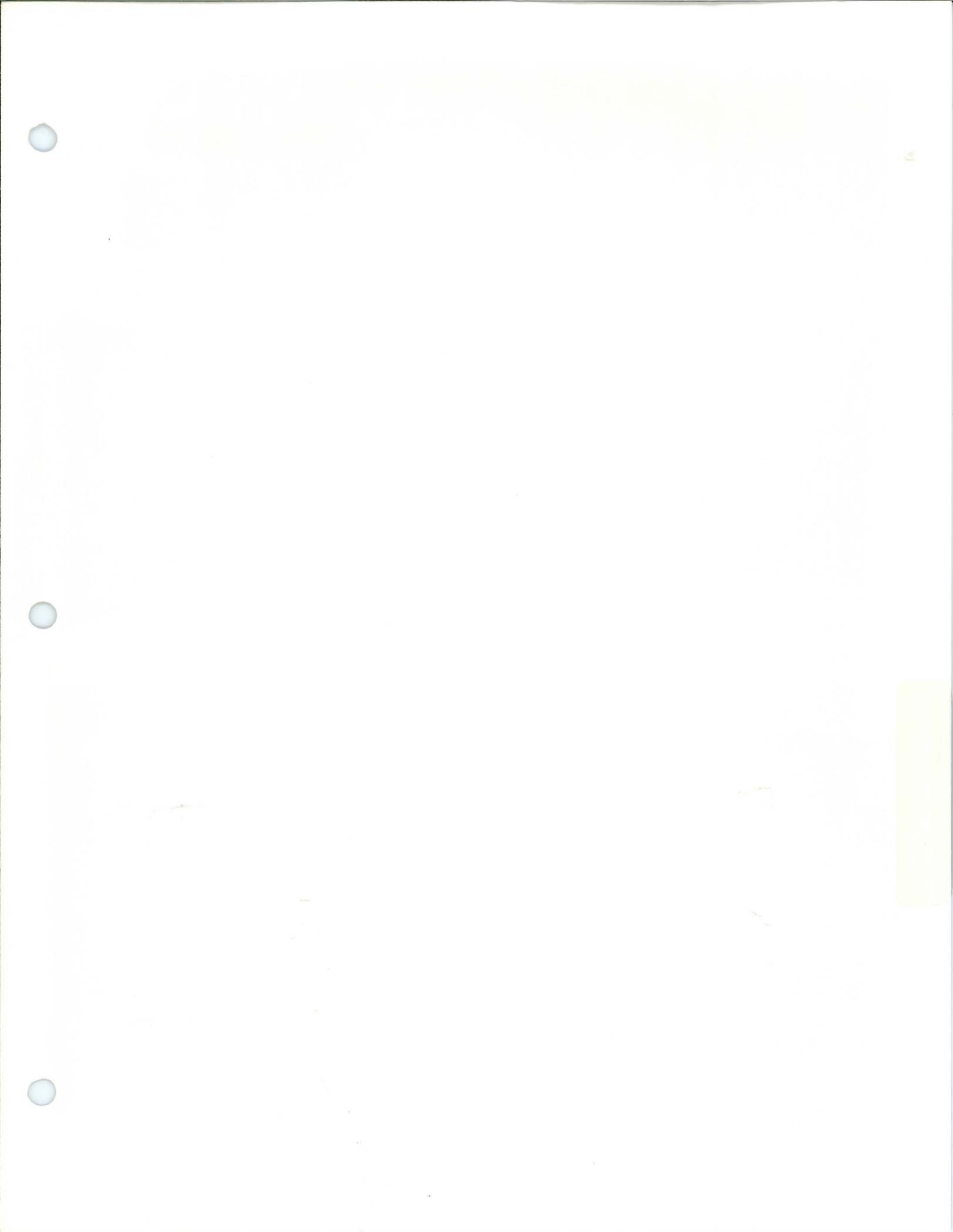
Other estimated costs (with potential federal aid) include:

Operational innovations — refuse reclamation, \$500,000 (\$375,000); fire and police services, \$1 million (\$1 million); street sweeping, \$250,000 (\$188,000).

Air pollution control — ground cover to eliminate dust, \$200,000 (\$100,000); alley paving, \$1 million (improvement district); pollution-free vehicles \$200,000 (\$100,000).

Beautification — Underground utilities, no cost to city; medians and street trees \$3 million (improvement districts).

Transportation — minibus, \$1 million (\$330,000); transportation center \$500,000.



8/8/68

Vineyard Outlet Channel



Vineyard Road Dam  
Reservoir

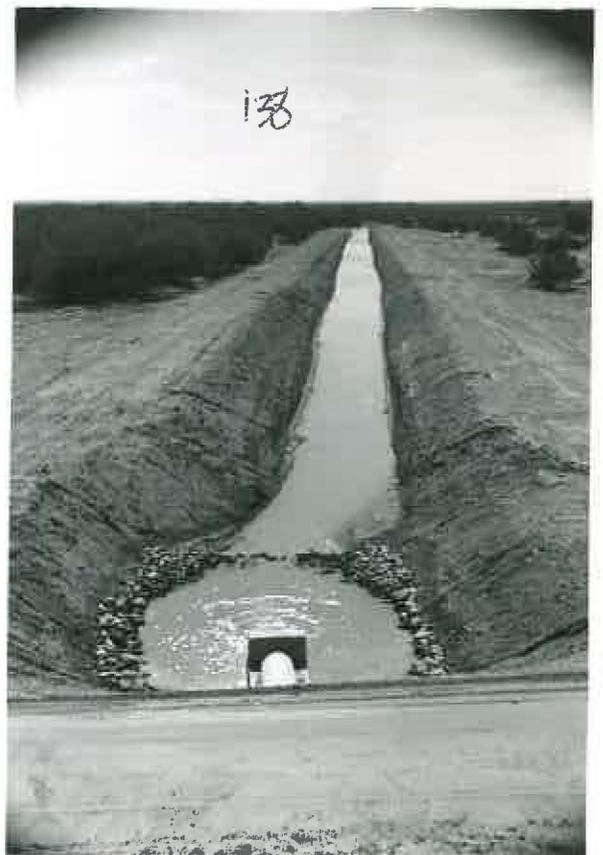


8/8/68



Gated Outlet Vineyard Road Dam

Gated Outlet





5/21/69

48th Street Drain

48th Street Drain  
Looking West at tumbleweeds  
and debris blocking east  
side of culvert about 44th  
Street. 60' long



Looking East at culvert  
under 48th Street.



5/21/69  
48TH STREET DRAIN

48th Street Drain  
Undercut wingwall  
NW corner of culvert  
under 36th Street.



Looking east at channel  
from about 44th Street





# Flood Control Budget Calls For 3 Dams

By BRUCE KIPP

The County Flood Control Advisory Board, following through on recommendations of its chief engineer, has adopted a 1969-70 budget providing for right-of-way acquisition for three more dams, two of which will protect Phoenix and communities to its south and west.

Including current fiscal year monies obligated but not spent for right-of-way acquisition for Cave Buttes and Dreamy Draw dams, the tentative 1969-70 budget adopted by the advisory board yesterday provides for an outlay of \$742,654 for right-of-way acquisition.

**BUT, BY** subtracting this expected carry-over, the budget for the coming year will be increased relatively little over that for this year, said Col. John C. Lowry, chief engineer and general manager for the Maricopa County Flood Control District.

Lowry said the "net budget" for this year is roughly \$542,000 compared with \$573,000 for last year.

But, with the \$316,500 carry-over included, the total 1969-70 budget as forwarded to the Board of Supervisors is \$888,954.

**THE TWO** north-of-Phoenix works to protect parts of Phoenix and Peoria, Sun City, Glendale and Avondale are New River Dam and Adobe Dam.

The county's burden for these and other flood-control works consists of right-of-way acquisition, utility relocation and other relatively minor items.

The structures themselves are built and paid for by federal agencies, the Army Corps of Engineers and the Soil Conservation Service.

Being designed by the

Corps of Engineers are Cave Buttes and Dreamy Draw dams, north Phoenix works which will protect north and west Phoenix areas from flooding.

**ADOBE DAM** is to be built just west of the Black Canyon Freeway, about six miles north of Union Hills Drive. Companion New River Dam will be built on New River, about six miles west of Adobe Dam.

Colonel Lowry's proposed 1969-70 program also calls for the acquisition of right-of-way for a diversion channel leading off from Cave Buttes Dam, a portion of Union Hills Diversion Channel relating to the same flood control work, and a diversion channel for Guadalupe Dam, a structure to be built in South Phoenix Mountain Park to protect Guadalupe and surrounding farmlands.

Lowry was commended by advisory board members for reducing the district's paid staff from the eight presently authorized to six, by eliminating one engineering aide and a stenographer.

**THUS THE** cost of personal services, presently budgeted at \$73,192, will be reduced to \$65,068 if the budget as approved by the advisory board is upheld by the Board of Supervisors.

Allocations for services and supplies will rise from the \$736,340, the latter including fixed assets (principally for right-of-way acquisition) will move up from \$500,860 to \$736,340, the latter including the carry-over.

To support the \$888,954 budget, the 5-cent per \$100 levy on the estimated \$1.1 billion in real property in Maricopa County will have to be maintained.



# Channelization Of Agua Fria Is Defended

9-15-69

By BRUCE KIPP

Under normal conditions, channelization of the Agua Fria River will not cause any flooding downstream in the Gila which the Agua Fria joins near Avondale, Col. John C. Lowry, chief engineer and general manager of the county flood district, said today.

He cited the 1966 Salt River runoff which caused a flow of about 60,000 cubic feet of water per second past the area embracing the county's Sierra Estrella golf course. He pointed out that there was no damage at that time to the park and course, although the road leading in was flooded.

**LOWRY'S VIEWS** were shared, in general, by Homer Richards, urban freeway engineer for the Arizona Highway Department.

To obtain fill to build Interstate 10 and a freer flow of water past the bridge carrying that freeway over the Agua Fria, the highway department plans to channelize the river for five miles downriver.

Members of the county park department's parks and recreation commission last week indicated concern over this channelization lest it result in the unundating of the park by dumping water into the uncleared Gila River where it would spread out, soaking everything in sight.

h "A \$2 MILLION park — they're going to dump water

into it right from Interstate 10," declared commission member Dale Dombey who, with Parks Director Thomas R. Wardell, brought the situation to the commission's attention.

As a result the commission adopted a resolution passing the ball to the Maricopa County Board of Supervisors for its determination.

Lowry said Casey Abbott Park and its Sierra Estrella golf course could only be flooded if a standard project flood of 100,000 to 150,000 cubic feet per second should occur.

**SUCH A FLOOD** happens about every 200 years, he said, citing the 1891 Salt River flood which brought water 300 feet north of Washington Street in Phoenix at a point or two.

But, said Lowry, even a standard project flood would cause no erosion on the golf course because the water would be spread out and slowed down in velocity. He added, however, when the water receded there would probably be some silt left.

However James L. King, Goodyear businessman who owns a section of land adjacent to the course, said a "competent architect" recommended to the Westside Community Council that the Gila be channelized downriver from the Agua Fria to carry off this flow.

**KING, WHO HAD** 100 acres of maize planted in the same flood plain as the golf course, is a member of the Westside Community Council.

Concerned over development of the area as planned by the county park department, Richards said King has been in to see him a couple of times and has called up, too.

"I didn't know a thing about his having any farmland down there," Richards said.

**KING ALSO** denied a connection between him and the park.

"What we're doing is for the best interests of the westside," he said.

Lowry said the answer to the whole problem is the removal of such obstructions as salt cedars from the Gila from about 115th Avenue to the Gillespie Dam, about 30 miles downstream.

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*Agua*  
7-15-69

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But, said Lowry, the game and fish department had enough influence to prevent this clearing project from being carried out.



5/21/69

48<sup>th</sup> STREET DRAW

48<sup>th</sup> Street Draw  
Looking North from bend  
toward culvert at 32nd  
Street. Debris has formed a  
dam 30' long at culvert  
in background.



Looking West from 36th  
Street showing tires  
and car bodies stored on  
Right of Way.





September 15, 1969

Apache Junction

Wash at S. end of  
western Acres  
Trailer Ranch.  
35' wide at top,  
4' deep.



Drainage for wash  
through Newman  
Park Subdivision.  
20' X 4'



ARIZONA Republic - MAY 20 - 1969  
**Tax \$275; offer \$500; price \$1,500**

A 240-acre parcel of land for which the county is willing to pay \$500 an acre for a flood control project is appraised at only \$275 an acre by the state for tax purposes, officials disclosed yesterday.

But the owner of the property, which is unimproved desert 25 miles north of downtown Phoenix, is demanding the county pay \$1,500 an acre.

The land is needed as part of the 1,080-acre tract which will form a basin for the Cave Butte detention dam, scheduled to be built next year 1½ miles south of the present Cave Creek Dam.

County Supervisor J. Robert Stark said the county is preparing to initiate condemnation proceedings against the

landowner of record, Transamerica Title Insurance Co.

Stark said the \$500-per-acre value was established by an independent appraiser hired by the county.

County Assessor Kenneth R. Kunes, in explaining the differences between the appraisals of the state, county and the landowner, said:

"This is another example indicating the need to review the full cash value assessments of every parcel of land in Maricopa County, especially vacant land."

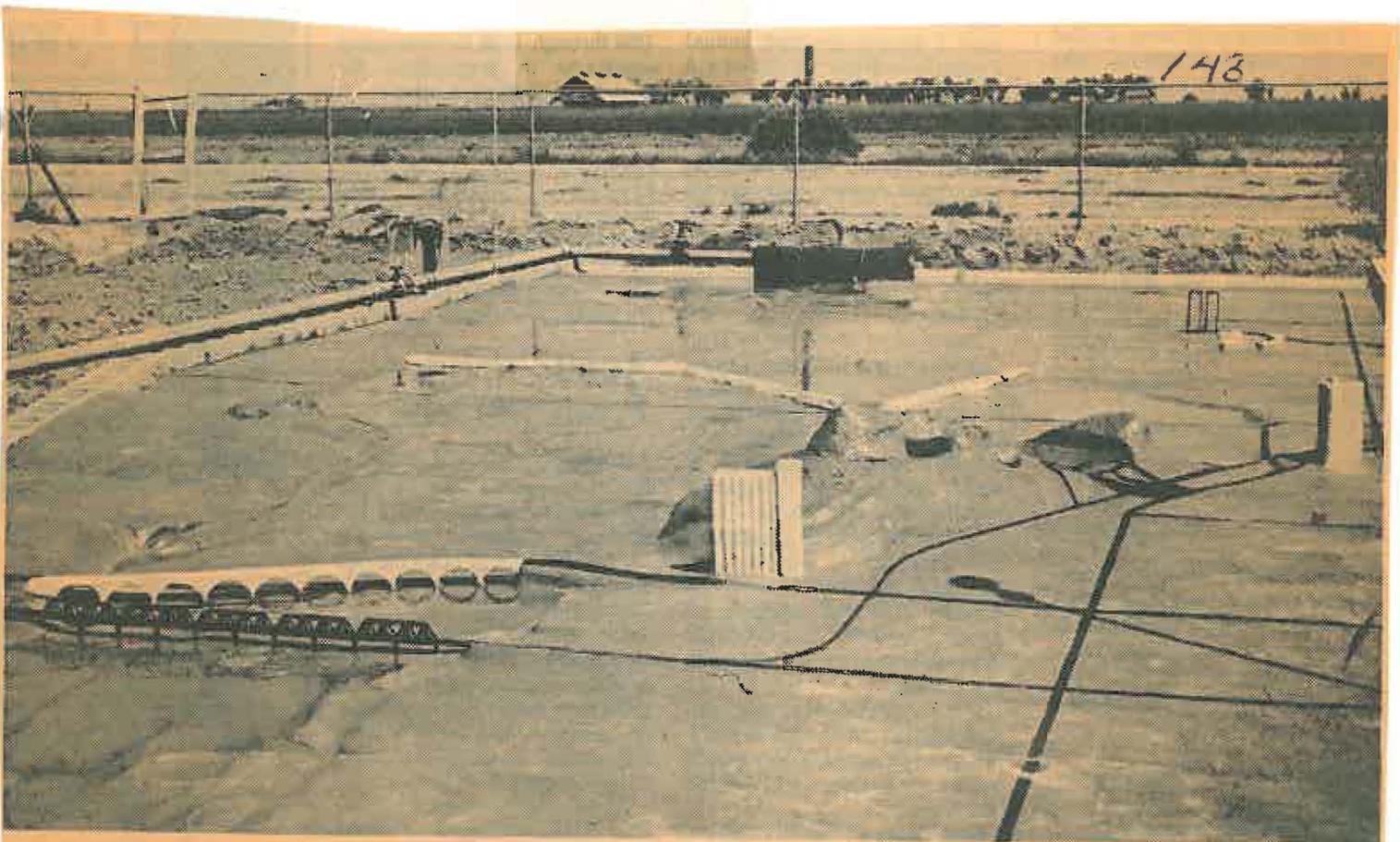
Earlier this month, Kunes announced he planned to conduct such a review,

which he estimated will require nearly a year.

Much of the county's vacant land, Kunes believes, was grossly undervalued in the statewide revaluation conducted in the past few years. Land market values have also soared since the revaluation, he noted.

The \$275-per-acre appraisal of the state Department of Property Valuation was issued more than four years ago and has not been changed since that time.

The assessed value of the land, upon which property taxes are based, is 18 per cent of the appraised full cash value.



**MINIATURE SALT RIVER** detailed in this hydraulic model study recently completed at the Arizona State University Farm in Tempe, will help engineers determine flow patterns. They are expressly interested in the effect of recently completed dikes east of Scottsdale Road and the earth-fill material placed by ASU immediately north of Sun Devil Stadium. The Tempe bridges, Hayden Flour Mill, the buttes, and Scottsdale Road are easily recognized in the model.



August 29, 1969

Gila

Typical entrance condition of wash, east of Canal. Looking east near point where Canal bank broke, about 1.7 miles north of Woods Crossing Road.

GILA CANAL  
GILA BEND AREA



Break in West Canal Bank, 1.7 miles north of Woods Crossing Road. Looking East.



August 29, 1969

Near Cotton Center  
Large wash which  
carried water from  
storm. Looking W.  
from Old Hwy 80  
toward Gila River



Large Wash which  
crosses old Hwy 80  
just north of  
Cotton Center.  
Looking south,  
showing effects  
of runoff.



Washed out shoulder  
caused by Canal break  
1.7 miles N of Woods  
Crossing Rd.



August 29, 1969

Diversion dike  
across wash 0.1  
mile N of Woods  
Crossing Rd.  
Looking south  
Dike is east of  
and parallel to Canal.



Large wash 0.9  
mile S. of Woods  
Crossing Rd.  
Looking E. (upstream)  
from old Hwy 80  
This wash is where  
diversion from N of  
Woods Crossing reaches  
old Hwy 80.



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9-15-69

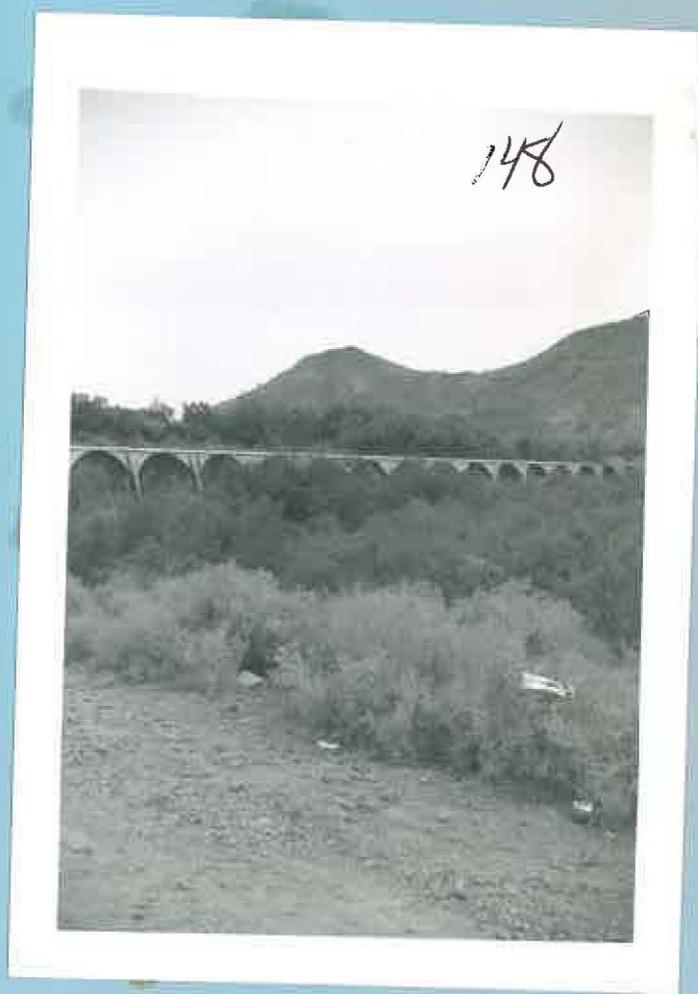
GILA RIVER 10/27/69

hreatophyte growth  
at Gillespie Dam



GILA RIVER 10/27/69

Chreatophyte growth  
at Gillespie Dam





September 14, 1969

Guadalupe

Water mark on house west of road which is 500-800' west of canal.



Water standing against west canal bank.



Boy pointing to height of water at house located 300-500' from canal bank.



September 14, 1969

Guadalupe

Looking NW at wash that flows from S. Mountain. Water was 3-4' higher in wash. Standing water is in excavations in wash (for material)



Looking west at culvert under freeway opposite Toltec St. Water was 1+ deep in culvert. Note ditch erosion in foreground.



Height water was reported to have reached at west side of old school building, now the cafeteria.



September 14, 1969

Guadalupe

Looking East from  
56th St. Down  
street where water  
flowed from Toltec  
St. Combination of  
erosion and silting.



Showing height  
water reached  
just west of  
canal. Water  
mark is 15"-18"  
higher than standing  
water.



Looking east  
across highline  
canal. Water flowed  
over canal and  
across fields shown.  
Amount of damage to  
fields unknown.





## Harquahala Group On Flood Control Has Complex Task

ARRANGING rights-of-way or easements over private, federal and state lands is the simple little chore handed to a steering committee that is struggling to advance a general flood-control project for Harquahala Valley.

The committeemen must somehow reach agreements with the Bureau of Land Management, State Land Dept., and a young regiment of individuals, not all of whom are Arizona residents. The owners who live and farm in Harquahala are easy to deal with, for they know what floods can do when they sweep in from the east, north or west. Non-residents may not be so well informed. U.S. and state officials have laws and regulations that can't be ignored.

The almost-complete plans prepared by Soil Conservation Service engineers call for three detention dams, a debris basin, quite a few dikes, and work to increase the carrying capacity of Centennial Wash. That big arroyo really ought to be both widened and straightened, but that would be prohibitive in cost. Owners or officials in charge of land along several miles of Centennial must be persuaded to sign agreements not to put in claims for damages if high water spreads over their property.

Ordinarily, flood-control matters are handled by the supervisors of the soil conservation district within which the proposed project lies. In the Harquahala case it would be the board of the Buckeye-Roosevelt SCD. But the problems are so numerous and involved that this special committee was set up.

Its members:

Jake Stephens, Harry Porterfield,  
W.N. (Jack) Sawyer, Don Bennett  
Jr.

7/19/69  
APR

Federal Land in Harquahala  
Valley Watershed Sec. 7,  
T2N, R9W 10/27/69

HARQUAHALA VALLEY WATERSHED



HAROUAHALA VALLEY WATERSHED

Federal Land in Harquahala  
Valley Watershed Sec. 7  
T2N, R9W 10/27/69





McMICKEN DAM  
4/30/69

Looking at dam south from outlet. Note clean condition. Sage house in foreground had lock removed and door open when first inspected. Door was closed for picture.



Logs across entrance of outlet structure.



4/30/69

McMicken Dam

Damaged Cable Gates at  
Greenway Road crossing  
looking south.



Note typically clean  
condition of dam  
embankment.



4/30/69

McMicken Dam

Large gully in edge of  
downstream berm, 2.8 miles  
north of Greenway Rd.  
Gully is 15' wide, 5' deep.



4/30/69

McMicken Dam

Damaged Cable Gate at  
Greenway Road, crossing.



Dam #3

Bent stem in southern  
gated outlet. Gate  
cannot be opened.





## Haws to emcee dam dedication

Henry Haws, Maricopa County supervisor of District 1, will be master of ceremonies at the dedication of the Rittenhouse Flood-water Retarding Structure at 10 a.m. April 11.

The ceremony will take place on the north end of the dam at the principal spillway outlet. The structure is located approximately nine miles south of Apache Trail just off Vineyard Rd.

Music will be furnished by the United States Air Force Band from Luke Air Force Base.

The dam, constructed by the Soil Conservation Service at a cost of \$371,000, will be accepted from contractor William Pulice by Col. John C. Lowry, chief engineer and general manager of the Flood Control

District of Maricopa County. Col. Lowry is also the contracting officer for the Flood Control District.

Speakers at the dedication include M.D. Burdick, state conservationist of the Soil Conservation Service, Walter D. White and Jim Miller, chairman and secretary-treasurer of the East Maricopa Soil Conservation District, and Dana Nelson, director of Model Cities Program of the Gila River Indian Reservation.

The group will gather at Superstition Inn in Apache Junction and will leave there at 9:30 a.m. for Rittenhouse Dam.

Those wishing to drive directly to the dam will be assisted by road markers at strategic points on Vineyard and Rittenhouse.

## Land Acquisition For Dams Nears

North and West Phoenix residents endangered by flooding of Cave Creek should be happy to know that land needed for the construction of Cave Buttes Dam and reservoir probably will be acquired by the county flood-control district by June 1.

The City of Phoenix also is in the process of buying private land and acquiring federal land for the related Dreamy Draw Dam and reservoir.

These reports on land-acquisition were made by Col. John A. Lowry, chief engineer and general manager of the Maricopa County Flood Control District, at a flood-control advisory board meeting.

The dams are being designed by the U. S. Corps of Engineers and are scheduled

to be completed in 1973, Lowry said.

The dams are to be paid for by the federal government, but the county, which budgeted about \$500,000 for right-of-way acquisition purposes this year, is obligated to buy or otherwise acquire all necessary land.

Land required for the Cave Buttes Dam and reservoir totals 1,080 acres.

Of that amount, Lowry said, most is owned by either the federal government or the state. The federal land already is acquired and the state's share is in the process of acquisition.

Of the 290 acres of private land required, he told the advisory board, about 40 acres has been purchased and about 250 is in the process of negotiation.

Included among state-owned land needed is the 120 acres upon which the dam and spillway will stand.

Lowry said he has been informed by State Land Commissioner Obed Lassen the 120 acres will have to be bought, but the state will grant the county flowage easements, at no cost, on the remainder of state land needed.

Chandler, Arizona, Wednesday, April 9, 1969

## **CONSERVATION TIPS**

**East Maricopa Queen Creek Tonto**

**Soil Conservation Districts**

**By KEN FOOKS**

Henry Haws, Maricopa County Supervisor of District No. 1, will be Master of Ceremonies at the dedication of the Rittenhouse Floodwater Retarding Structure at 10:00 o'clock on the morning of April 11. The ceremony will take place on the north end of the dam at the principal spillway outlet. The structure is located approximately nine miles south of Apache Boulevard just off Vineyard Road.

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Those who desire to drive direct to the dam will be assisted by road markers erected at strategic points on Vineyard and Rittenhouse Roads.

Everyone is invited. In addition to the music, speaking and formal dedication you can become familiar with this huge flood control project and enjoy a springtime outing in the desert.

# *Dedication Tomorrow For Rittenhouse Project*

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The group will gather at Superstition Inn in Apache Junction. They will leave there at 9:30 a.m. and proceed to the Rittenhouse Dam, where ceremonies will begin at 10:00 o'clock.

Those who desire to drive direct to the dam will be assisted by road markers erected at strategic points on Vineyard and Rittenhouse Roads.

Everyone is invited. In addition to the music, speaking and formal dedication you can become familiar with this huge flood control project and enjoy a springtime outing in the desert.

## **Haws Speaks At Dedication Of Dam Site**

Rittenhouse flood control dam, the last in a series of three protecting Maricopa County's east side, was compared today to "many hands holding back floodwaters" by County Supervisor Henry Harrison Haws at dedication ceremonies.

Sharing the speaker's platform at the Pinal County dam site was M. D. Burdick, state conservationist with the U. S. Soil Conservation Service. His agency paid for the 2½ - mile - long dike which, along with interconnecting Powerline and Vineyard Road dams, protects 90,000 acres of farmland, Williams Air Force Base, Queen Creek and Gilbert and the General Motors Proving Ground.

Burdick said the initiative for construction of such flood barriers lies with local citizens and his agency is willing to proceed as rapidly as local people desire.

Water from a 160 - square mile area collects behind the dams. Local sponsor is the Maricopa County Flood Control District headed by Col. John C. Lowry.

# Rittenhouse Dam Cited As Work Of 'Many Hands'

Rittenhouse Dam was compared at dedication ceremonies Friday to "many hands holding back floodwaters."

County Supervisor Henry H. Haws of Mesa used that description in acknowledging the cooperative efforts responsible for constructing the 2½-mile long flood control dike.

He said that Maricopa and Pinal Counties, the federal and state governments, the City of Chandler, soil conservation districts, private business, and individuals each had a hand in its planning and construction.

Haws shared the speakers' platform at the dedication site, nine miles south of Apache Junction in Pinal County, with M. D. Burdick.

Burdick, State Conservationist with the U.S. Soil Conservation Service, declared that the initiative for construction of such flood barriers lies with the local citizens.

He explained the federal government's cost-sharing program on small water sheds where the primary benefits are to rural communities and lands. Burdick said the Soil Conservation Service is willing to proceed as rapidly as the local people desire.

Construction funds of \$393,000 for the 22-foot high earthen dam

were provided by the U. S. Soil Conservation Service. The Maricopa County Flood Control District, headed by Col. John C. Lowry, provided the right-of-way and handled the contract.

Haws said the decision to construct Maricopa County's flood control dams in Pinal County was based on both economic and good neighbor considerations.

He pointed out that the State Land Department provided easements for Rittenhouse Dam and two adjoining dams in Pinal County at token costs. This resulted in considerable savings, he said, over purchasing privately-owned land in Maricopa County.

Haws added that building the dams in Pinal County gives flood protection to Vineyard Road, a Pinal County highway. He said that the Pinal County board of supervisors, in exchange for this, has agreed to maintain the dams.

Rittenhouse is the third in a chain of interconnecting flood control dams snaking 10 miles across the desert. The northern dike, Powerline Dam, is one mile east of the Maricopa County line. The southern end of Rittenhouse Dam is four miles east of the Maricopa County line. The middle structure is Vineyard Road Dam.

The three dams, plus an eight-mile-long floodwater diversion channel, represent construction costs to the U.S. Soil Conservation Service totaling \$2,158,000. An additional \$100,000 was spent on right-of-way and other incidental expenses by the Maricopa County Flood Control District.



**VISITOR DEDICATION PROGRAM** — County Supervisor Henry H. Haws of Mesa tickles a young Gila Monster with a stick, while staying a safe distance, following dedication of Rittenhouse Flood Control Dam south of Apache Junction. The Gila Monster, the only poisonous lizard in Arizona, was found waddling atop the dam yesterday when a car caravan started an inspection tour of the 2½-mile long earthen structure. Haws guided the reptile safely out of the path of the vehicles. About 50 persons attended the dedication.

## CONSERVATION TIPS

East Maricopa Queen Creek Tonto

Soil Conservation Districts

By  
**KEN FOOKS**



**DAM DEDICATED** — Henry Haws, Maricopa County Supervisor, delivers the principal address at dedication ceremonies for the Rittenhouse Flood Control Dam, northeast of Williams Air Force Base auxiliary field. On the speakers platform are, left to right, William Pulic, contractor; Walter White, Soil Conservation District board chairman; James Miller,

SCD secretary and treasurer; M. D. Murdock, state conservationist of the SCD; Dana Nelson, SCD board member and director of the Gila River Community's Model Cities Program; Col. John Lowry, director of the Maricopa Flood Control District; and Col. D. A. Bird, Williams Air Force Base chaplain.

The Rittenhouse Flood Control Dam located to the east and north of Williams Air Force Base auxiliary field was dedicated recently by Henry Haws, Supervisor of Maricopa County.

The construction contract for this dam was awarded to William Pulic Construction of Phoenix on August 23, 1968, and was completed April 4, 1969, at an actual cost of \$393,000.

This two and one half mile structure containing 883,000 cubic yards of packed earth fill approximately 22 feet high will store 4,000 acre feet of flood water for irrigation used over a period of 30 days until empty.

The benefit cost ratio is for each one dollar cost, will give \$1.60 benefit in savings to crops, roads, utilities, etc., not including the value of water saved for agricultural use.

This structure is the last of three dams forming a 10 mile flood protection belt to the east of Gilbert, Chandler and Queen Creek as well as General Motors Proving Grounds and Williams Air Force Base. This flood protection belt will also protect the Central Arizona Project aqua-duct of the future.

The total construction cost of all dams was \$2,158,000 paid for by the Soil Conservation Service from P.L. 566 flood control funds made available to Arizona by the Congress of the United States.

The East Maricopa Soil Conservation District is now asking for funds to extend this flood belt south from Rittenhouse across Queen Creek and Senoque Wash to the north end of Magma Dam built several years ago which has already paid out its entire cost from savings of flood damage. This Lower Queen Creek structure would have controlled the \$100,000 damage done to farm land on the Gila Indian Reservation during the December flood of 1967.



SALT RIVER 10/27/69

Federal Land at 51st Ave  
Sec. 29, T1N, R2E



SALT RIVER 10/27/69

Federal Land at 51st Ave.  
Sec. 29, T1N, R2E



SALT RIVER 10/27/69

At 48th St. Secs., 7&8, T1N,  
R4E. Federal Land



160

SALT RIVER 10/27/69

Federal Land at 48th St.  
Secs 7&8, T1N, R4E





# Indian Bend Wash *Scottsdale Progress* 1-1-69 channel to be topic

Indian Bend Wash will be the subject of discussion at a Valley - wide meeting tonight at Dale Anderson's restaurant.

Engineer John R. Erickson, who made a study on using the wash for recreational purposes, will be the main speaker.

A spokesman for the Corps of Engineers is expected to tell county and city officials whether Erickson's plan will provide adequate flood protection.

Erickson reported that his

plan would not only work for flood protection but would also make the land useable.

The Corps of Engineers had planned to build a seven-mile-long concrete storm drain channel down Indian Bend Wash throughout the Valley.

City officials will be present at tonight's meeting from Paradise Valley, Scottsdale, the Indian Tribal Council, Tempe, Phoenix and the county.

Mayor Bud Tims, City Manager Bill Donaldson and Public Works Director Marc Strager will represent Scottsdale.

# Scottsdale Daily Progress

YOUR AWARD WINNING HOMETOWN NEWSPAPER

0c Per Week — 10c Per Copy SCOTTSDALE, ARIZONA, WEDNESDAY, JANUARY 15, 1969 Vol. VIII, No. 269



Progress Photos by Dan Milburn

**OVERFLOW CROWD** listened last night as the Scottsdale Planning Commission (top background) heard the controversial townhouse rezoning request of Hallcraft Homes. The rezoning bid was delayed.

## Wash project assist asked Post office automates

The cooperation of five other political subdivisions in the development of an Indian Bend wash flood control project was solicited by Scottsdale in a meeting here last night.

Engineer John Erickson, water consultant for the city, called on representatives of Phoenix, Paradise Valley, Maricopa County, Tempe and the Salt River Indian Reservation to cooperate in the project.

Erickson's flood control plan, now under study by the U.S. Corps of Engineers, would cut across all of their boundary lines, although Scottsdale would have the largest stake in it.

Erickson suggested that the Legislature be asked to provide laws to permit a flood control zone within the overall county flood control district, or to permit improvement districts in each of the political subdivisions which would join together to form the overall project.

Erickson's plan calls for two flood retention basins north of the Arizona Canal that would hold flood waters and release them gradually

at a rate of flow of about 3,000 cubic feet per second.

One basin would be located southwest of the McDowell Mountains and would funnel water to the southeast across Shea Blvd. and into a natural arroyo on the Indian reservation and thus to the Salt River.

The other basin, proposed southwest of Shea and Scottsdale Rds., would channel water to the southeast across Scottsdale and Indian Bend Rds., across the Arizona Canal and into the present wash.

The Corps is studying that proposal, expected to cost \$7 million, in comparison with its own \$9 million plan for a 120-foot-wide, 25-foot-deep concrete channel along the seven miles of the wash south of the canal.

Erickson's plan calls for a broad, shallow grass line channel which could be used for parks and recreational purposes.

He said the other communities would benefit, and indicated that they would share about half the cost of their portions of the project if it was approved.

An automated "post office" has been installed in the lobby of the Scottsdale Post Office to serve patrons 24 hours a day.

The machine will sell stamps, envelopes and post cards, as well as insure parcels, make change, and provide scales to weigh parcels. It will also provide information on zip codes, and, in case the customer can't find out what he needs to know, it has a telephone information line.

The machine is similar to the ones that have been installed in several Valley shopping centers. According to Scottsdale Postmaster, O. C. Wilson, the machines are being installed in most major post offices around the country.

**60°**

Occasional light rain ending this afternoon. Gradual clearing tonight. Mostly fair Thursday. High today 58 to 63, low tonight 40 to 45 and high Thursday 63 to 68.

## Budget includes \$900,

WASHINGTON (UPI)—President Johnson called today for appropriation of \$900,000 to begin advance planning of the Central Arizona Project to carry Colorado River water to the Phoenix and Tucson areas.

The huge project, approved by Congress last year after more than a decade of delay, would provide supplemental irrigation water for 1.2 million acres as well as water for municipal and industrial uses.

Johnson, in the last budget message he will present to Congress, also asked for \$200,000 to begin construction of the Tat

Momolikot Dam, a unit of the Santa Rosa Wash Flood Control Project. The project is one of 12 new construction starts requested by the corps of engineers across the nation.

Funds for the CAP were included in an \$8.4 million budget request by the Bureau of Reclamation for construction and planning of future projects in Arizona during the fiscal year beginning July 1, 1969.

The Army engineers asked for \$3.3 million for construction and planning in Arizona during the 1970 fiscal year.

In addition, the corps requested for the Santa Rosa the corps to continue low Flood gun under gram.

Other Ar \$1 million of the P projects, of flood c Gila River \$35,000 for in the Gil \$40,000 for

Scottsdale Progress 1-6-69

# New wash study before council

By BOB DRISCOLL

Indian Bend Wash is due for discussion at both Scottsdale City Council meetings this week.

Tonight, the council will consider hiring John R. Erickson to make another study of the wash and on Tuesday, an amendment to the Indian Bend Wash ordinance will be up for adoption.

Erickson, who completed his first study in 1967, may be asked to coordinate a more detailed study for channel alignment.

Public Works Director Marc Stragier is recommending the new \$2,000 study to show exactly how wide and deep the channel should be. The proposed study will also show whether the channel should go over or under various roads.

Erickson's first study indicated that park land and riding trails could be developed in Indian Bend Wash without altering the channel's flood control capability for 18,000 acres in Scottsdale.

The next study would show exactly where these parks and trails can be located, said Bill Walton of the planning department. The city's planning and public works departments will work under Erickson's direc-

tion, if the council takes action tonight.

The 1967 study showed how the city could utilize the land now lying dormant in the wash. The land is privately owned, but Walton said the city could acquire some of it under an incentive zoning plan. Development of most of the land is prohibited.

"Erickson had reported, 'the project is justified, not only because of economic feasibility, but, also because of the protection of large areas from the hazards of frequent flooding.'"

The Corps of Engineers is currently working with Erickson to see if his plan would work as well as large concrete channels, such as Los Angeles County has. Stragier does not expect to hear the results until next summer.

An amendment to the Indian Bend Wash ordinance has been in the works for some time, too. The ordinance prohibits building in the wash.

The council has not adopted it yet because of the difficulty in deciding where the city should draw the construction line. The city has been using the 100-year-frequency flood flow lines.

City Attorney Dick Filler drafted a change to permit building to the 50-year flood line after County Flood Control Officer John Lowry said that it would be sufficient.

Then Lowry reverted back to the 100-year line. Where the council will draw the line is unknown at this time, but Councilman Jack Senini has said that it should be consistent.

Lowry recently approved building to the 50-year flood control line. Approval was granted to Continental Villas' 212-lot subdivision north of McDonald Rd. between 82nd and Granite Reef Rd.

A 50-year flood would have a flow of 20,000 feet per second and the 100-year flood would have a 40,000 fps flow.

THURSDAY, JANUARY 16, 1969

## Flood Control Plan Explained

Gazette's Scottsdale Bureau  
**SCOTTSDALE**—The Scottsdale approach to flood control was explained to a group of officials from other Valley cities, towns and governmental bureaus at a special meeting.

A plan for flood control that also would include decorative uses of land along the drainage canal was developed by engineer John Erickson under a contract with the City of Scottsdale.

**THE DESIGN**, known as the "Erickson Plan," is being considered now in Washington. Another flood control design was drawn up some time ago by the U.S. Corps of Engineers.

The latter plan, which would consist of a concrete flood

channel with bridges across it, has been termed "the concrete canyon" and the "great white chasm" by Scottsdale officials.

**THE ERICKSON PLAN** would include storage dams on the southwest slopes of the McDowell Mountains, to facilitate the gradual release of flood waters for beneficial uses. The land along the drainage ditch would be put to use as parks, making a decorative green belt through the middle of Scottsdale.

John Lowry, Maricopa County flood control director, told of efforts at getting money for flood control and Maj. Ed. Rugestein of the Corps of Engineers explained a new federal assistance program to aid flood control districts that might be combined with recreation facilities.

FLOOD CONTROL DIST. OF  
SANTA RITA COUNTY  
3325 W. DURANGO  
PHOENIX, ARIZONA 85009

# Shopping center obstacle cleared

By BOB DRISCOLL

The first step toward solving the flooding problem near Hayden and Thomas Rds. and clearing a final obstacle to development of a \$1 million shopping center was taken by the Scottsdale City Council last night.

The council passed a resolution "in the interest of public need" to acquire a strip of land directly north of Thomas Rd. in the Indian Bend Wash. The SDC Corp., which plans a \$1 million shopping center at the northwest corner of Thomas and Hayden Rds., has offered to purchase the land and give it to the city for a natural drainage way.

The strip, located just east of 78th St., has a 150-foot frontage along Thomas and extends 600 feet northward.

Once the city acquires title, Public Works Director Marc Stragier said, a ditch three or four feet deep and 110 feet wide will be dug. He said it could be dug in time for the summer floods, which usually start in July or August.

The County Flood Control District approved the plans for displacing flood waters, said Stragier. The plans, drawn up by engineer Bill Van Loo, were based on John Erickson's city-wide flood control plan. A consulting engineer, Erickson recommends making a natural drainway all along the Indian Bend Wash.

The city, which has an ordinance against building in the wash, can increase its building space by digging the channel deeper in spots, Erickson has said.

This approach was used by the SDC Corp. which has been engaged in a long dispute with residents of the Cavalier Vista subdivision. The residents have maintained, ever since the planning commission approved SDC's site plan in 1967, that the shopping center would increase the probability of flooding to their homes.

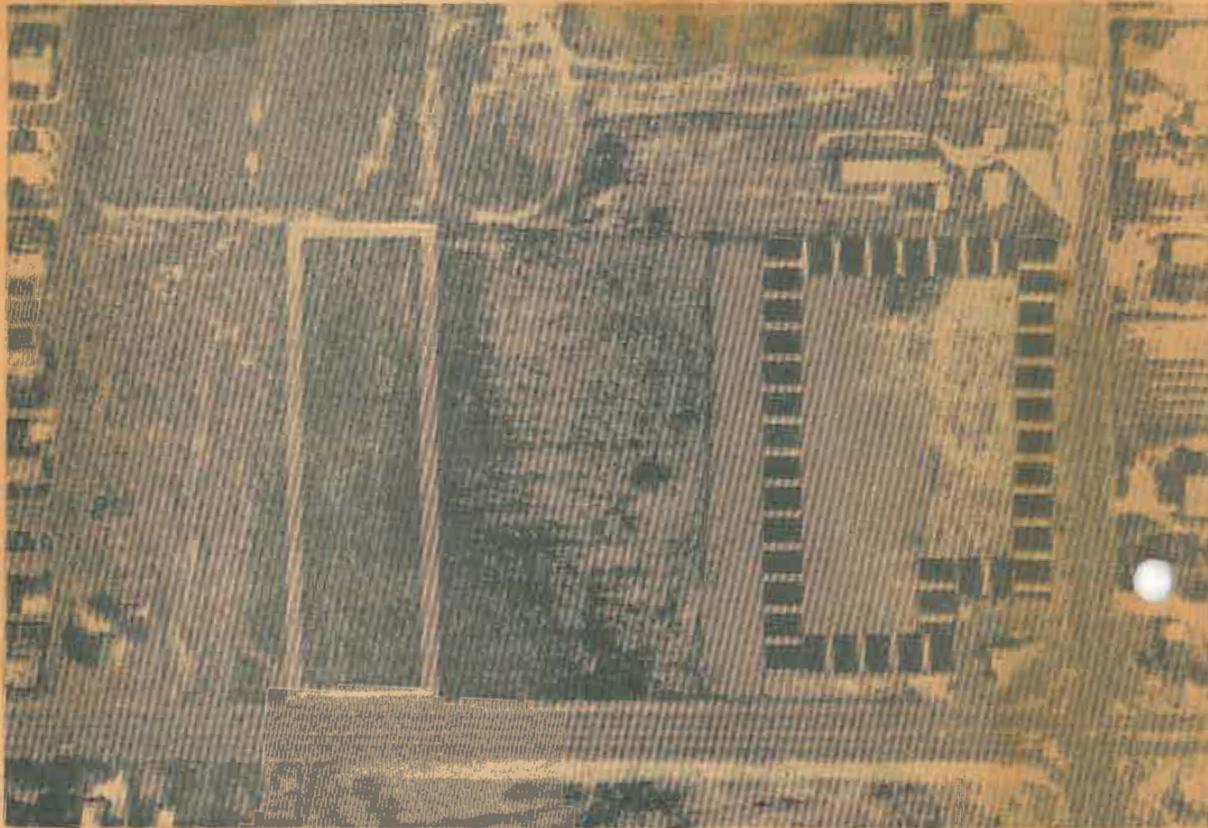
The subdivision contains about 250 homes, directly across the wash to the west of the proposed shopping center. The residents were alarmed because the center's parking lot would extend into the wash and would be high enough to deflect water to the west.

Stewart Bowie, SDC president, said on numerous occasions during the past year that he is willing to spend \$10,000 to provide adequate flood control protection for the subdivision.

The money will be used not only for purchasing property in the uninhabitable part of the wash but for clearing the wash of debris. Stragier has said it would cost an estimated \$1,000 a year to maintain the clearing. But he said it would be well worth it to keep high waters off Thomas Rd.

Stragier said work in the wash would coincide with SDC's shopping center construction. And he said the corporation, which already has site plan approval, will be in shortly with its building plans.

City Manager Bill Donaldson said, "This could be a good start in our plans for the development of the wash under the Erickson plan."



Progress Photo by Dan Milburn

INDIAN BEND WASH area at left center, ringed by white line, was donated to the city for use in flood protection for homes at extreme left of aerial photograph. The land had been offered to the city

by developers of a proposed shopping center at Thomas and Hayden Rds. (dotted black lines at right).

# Scottsdale Daily Progress

YOUR AWARD WINNING HOMETOWN NEWSPAPER

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SCOTTSDALE, ARIZ., WEDNESDAY, FEB. 19, 1969

2/22/69

# Some Wash members oppose city purchase

Members of the Indian Bend Wash Improvement Assn., do not agree with their president on the city's plan to purchase a site for a partial channel north of Thomas Rd., one of the members said today.

Mrs. Edward Gallagher of 702 E. Pinchot, who spoke out against the plan earlier this week, said that Rex Young, association president, was not speaking for other members of the group when he endorsed the proposal.

The city council this week adopted a resolution calling for acquisition of a strip of land in the wash west of a five-acre commercial site at the northwest corner of Thomas and Hayden Rds. where SDC Corp. plans to build a shopping center.

The channel site would be excavated to provide a channel for water during infrequent periods when the wash is flooded. Residents of a subdivision west of the wash fear that construction of the shopping center and elevation of its site will direct water into their properties.

"Our association was formed to help the city put in a uniform ditch along the entire wash, not to provide

one hole," Mrs. Gallagher said.

She said that the group is made up of residents up and down the wash which bisects the city parallel to north-south Hayden Rd.

"We knew nothing of this until we read in the newspaper that Mr. Young was satisfied with the plan. He doesn't speak for the association," Mrs. Gallagher said.

Young told The Progress Friday that the acquisition of the 150-by-600-foot ditch site "is what we have been working for." He said the move would encourage others with land in the wash to donate ditch sites to allow further development of their property.

City ordinances now prohibit construction within the area threatened by a potential flood of 20,000 cubic feet per second. Such a flood might occur only every 50 years.

Mrs. Gallagher said that the 150-foot-wide strip would leave only 40 feet on either side of the ditch for development of a green parkway as proposed by the city. The parkway plan is now being studied by the U.S. Corps of

Engineers. The Corps had proposed instead that a 180-foot-wide concrete ditch be constructed.

Mrs. Gallagher said that she and other association members want a uniform plan for development of the entire wash. "This random hole digging is ridiculous," she added.

# Ex-foe backs wash plan

2/21/69 Scottsdale Daily Progress

The president of a group that strongly opposed plans for building of a shopping center partially in the Indian Bend Wash today gave backing to the development.

Rex Young, president of the Indian Bend Wash Improvement Assn., said that plans for the city to acquire a strip of land near the proposed shopping center for deepening of the wash channel "is what we have been working for."

Most of the members of the association live west of the wash and northwest of Thomas Rd. and 78th St. The shopping center will be built at the northwest corner of

Thomas and Hayden Rds. by the SDC Corp. of San Diego.

Plans call for acquisition by the city of a 150-by-600-foot strip of Wash property between the homes and the commercial site. A ditch would be dug to provide better flow of water during infrequent flooding in the normally dry wash.

60°

Mostly cloudy this afternoon. High today 58 to 63, low tonight 35 to 40 and high Saturday near 60. Ten per cent chance of rain today and tonight

Public Works Director Marc Stragier noted Thursday, however, that the entire problem can't be solved until a culvert is constructed under Thomas Rd., probably in about three years.

A resident of the area west of the wash who had been a member of the group that opposed the shopping center said Thursday that the proposed ditch would not provide protection for the homes.

Mrs. Edward Gallagher of 702 E. Pinchot Ave. said that the homes would still be endangered because of water.

city while Dwight Pringle  
is taking over. They are  
to operate the station 18  
a week.

Scottsdale Progress  
12/12/69

## City may ease ban in Wash

A new ordinance permitting more construction in the Indian Bend Wash will be proposed at tonight's Scottsdale City Council meeting in the Civic Center at 300 E. Main St.

The new ordinance, drafted for council's consideration, excludes an earlier proposal that developers be allowed to build deeper into Indian Bend Wash.

The council two weeks ago agreed to accept an ordinance that would allow developers to build up to flow lines of a 50 - year frequency flood.

However, the final draft of the new ordinance is the same as the old ordinance in so far as construction will only be allowed within the 100 - year flood lines.

City Attorney Dick Filler told the council last night that the county's flood control officer, Col. John Lowry, changed his mind and declined to allow Scottsdale's ordinance to be moved up to the 50-year line.

Filler explained that Lowry has been given authority by President Johnson to control the build-up of wash basins and channels.

"We don't issue any building permits without Col. Lowry's approval," said Mayor Bud Tims.

Councilman Jack Senini pointed out, however, that Col. Lowry just gave RPR Developers permission to build up to the 50 - year flow line on a 30 - acre site north of McDowell and west of Granite Reef.

The name of the subdivision is Continental Villas, a project of condominiums.

"I've lost confidence in Col. Lowry," Senini said. He accused the county flood control officer of "double talk" by granting approval to RPR and denying the city the right to change its ordinance.

"Let's be consistent," said Senini. "We shouldn't allow some developers to build within the 50 - year flood control line and not others." Senini asked Filler if this inconsistency would hold up in court.

Filler said that the new ordinance will be changed to allow the county flood control officer to make the determination on building within the Indian Bend Wash.



5/16/69



**HYDRAULIC MODEL** — designed to help engineers determine the gross flow pattern of the Salt River, has been constructed at the Arizona State University Farm in Tempe. Gilbert Cady, vice president for business affairs at ASU (left) and Dr. Lee P. Thompson,

dean of the College of Engineering Sciences, discuss miniature landmarks such the Tempe bridges, the Hayden Flour Mill, and the familiar buttes. Such model studies are an invaluable aid to water engineering design. ASU News photo

## Student's Scale Model Aids Study Of Salt River Floods

A hydraulic model study of the Salt River between Scottsdale Road and the Tempe bridges has been constructed at the Arizona State University Farm southeast of Tempe.

The project, co-sponsored by the Office of the Vice President for Business Affairs and the College of Engineering Sciences, was specifically built to determine the gross flow patterns of the Salt River at times of high flows.

The model, a miniature Salt River Valley, occupies an area 50 feet by 25 feet. This facility was built in such a manner that one foot measured horizontally in the model represents 400 feet in the actual river. One vertical foot in the model represents 100 feet in the actual river.

Typical landmarks such as the Tempe Buttes, the Hayden Flour Mill, Sun Devil Stadium, and the bridges are easily detected.

Paul F. Ruff, associate professor of civil engineering, said the facility was a project of Momo Kifle, an ASU graduate student, to partially fulfill his master's degree requirement. Kifle is on leave to the United States from his home in Ethiopia.

"We are particularly interested in the flow patterns as influenced by the recently constructed dikes immediately east of Scottsdale Road, and the earth-fill material placed by ASU for parking immediately north of Sun Devil Stadium," Prof. Ruff said. "Our hydraulic model study will give us information concerning the influence these activities will have on the flow of the river."

Prof. Ruff explained that model studies are an invaluable aid in water engineering design because they offer information not otherwise available.

"A river, for example, can be studied under flood conditions that might occur in nature but once in a thousand years," he said.

The ASU model offers quantitative information about the flood of December, 1965, for example, and will enable engineers to speculate about what might happen in future large flow occurrences.

The model construction took about nine months to complete.

Graduate student Kifle was assisted by Richard Ramos of the ASU Development Shop in building the model, while Prof. Ruff served as his graduate advisor.

"I believe Arizona State University has done an excellent job in equipping Mr. Kifle to aid his country's technological development," Prof. Ruff commented. "Here, in our College of Engineering Sciences, he has had an outstanding opportunity to obtain valuable experience in the design, fabrication, and testing of a hydraulic river model."

Prof. Ruff pointed out that in many instances, foreign students receive thorough book knowledge, but lack the opportunity to apply the theories.

"Building hydraulic models such as this is one area where civil engineering students can really make an important contribution to their country's needs," he explained. Usually, water development studies for foreign countries are conducted in the United States by consulting organizations, and we thereby inhibit the development of that country's technological potential."

The model will benefit Valley school children, too. When they visit the ASU Farm, they'll be able to view the project. Since it looks exactly like the Salt River and features familiar landmarks, the youngsters will receive added insight into some of the work in which engineers are engaged.

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September 15, 1969

Tempe Wasteway

Gates from canal  
Small amount of  
seepage. Weeds  
growing in waste-  
way.



Looking west from  
canal toward Alma  
School Rd. Showing  
week growth in  
wasteway.



September 15, 1969

South Tempe

General vicinity  
Cairo & College  
Aves. Water mark  
on downstream side  
of house, indicating  
minimum depth of  
flooding.



Drying out soaked  
articles.



Occupants





8/7/69

VERDE RIVER

Bartlett Reservoir



8/7/69

VERDE RIVER

Bartlett Dam



7/23/69

VERDE RIVER

Spillway, Horseshoe Dam



7/23/69

Verde River

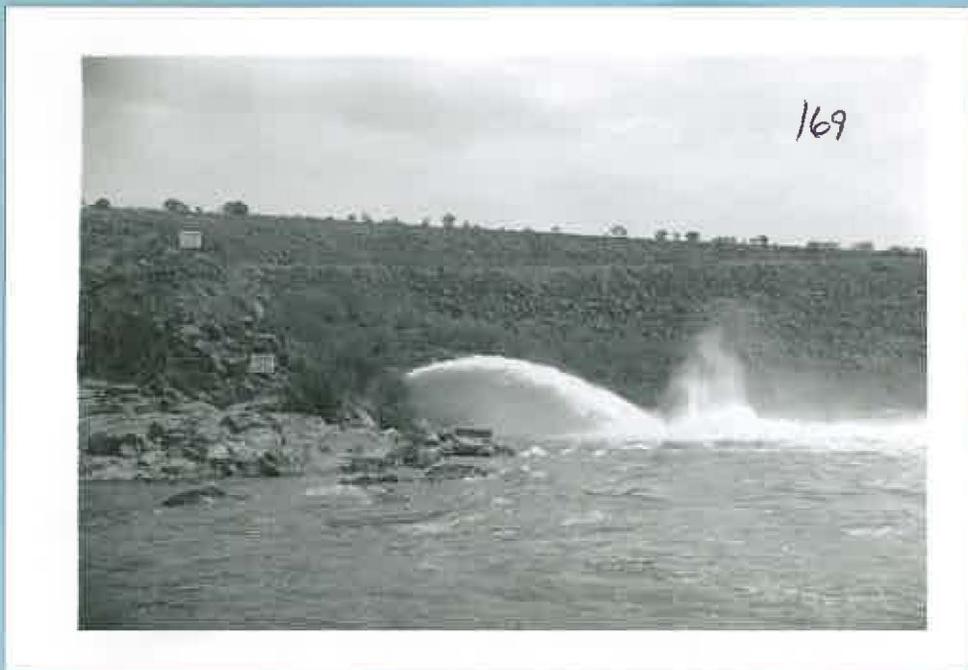
Outlet Valve, Horseshoe Dam.



7/23/69

VERDE RIVER

Outlet Valve, Horseshoe Dam.



7/23/69

VERDE RIVER

Horseshoe Dam & Reservoir



7/23/69

VERDE RIVER

Spillway, Horseshoe Dam

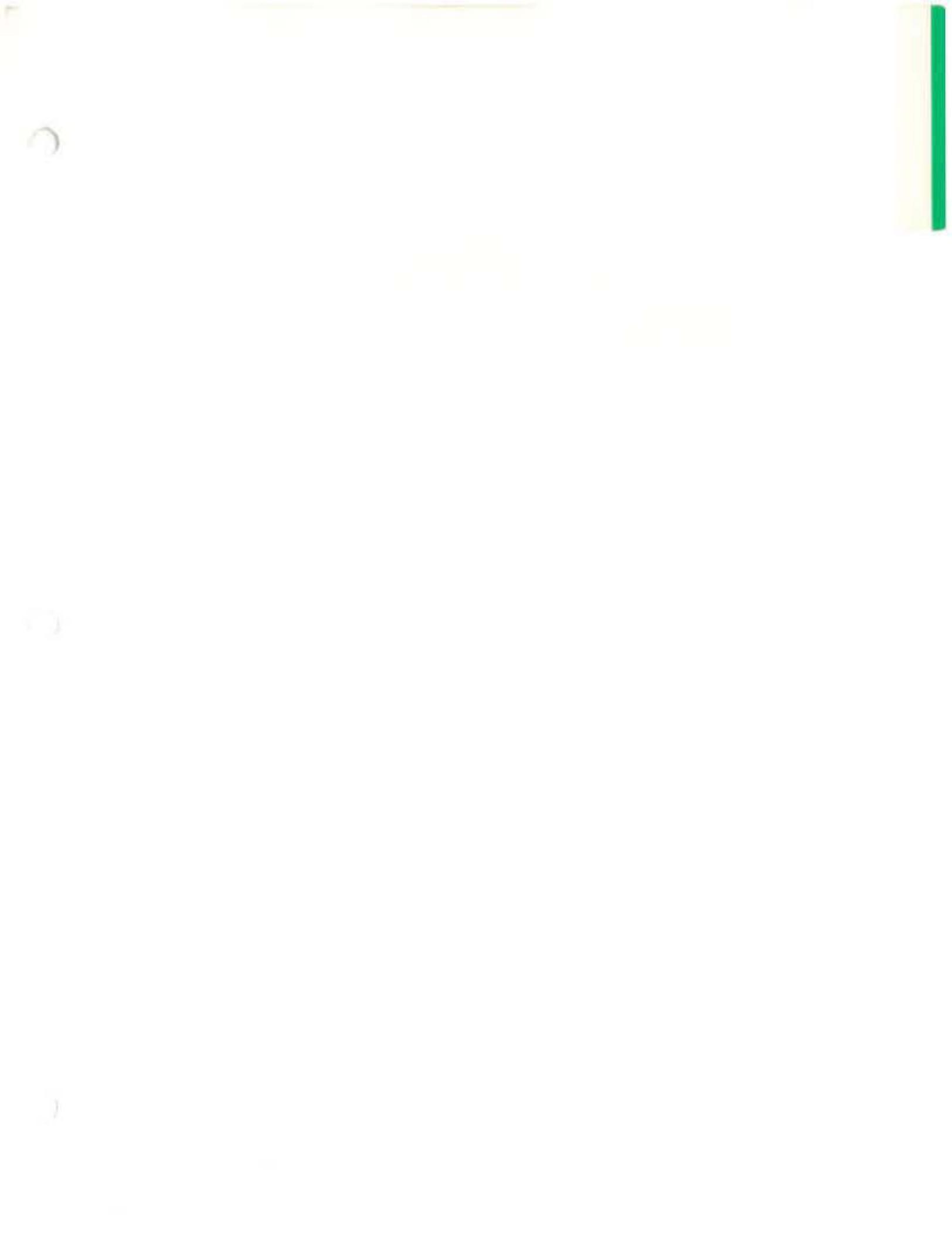


7/23/69

Verde River

Below Horseshoe Outlet.





9/6/70

E. approach of Indian School Road Bridge on Agua Fria



9/6/70 Upstream from Indian School Road Bridge on Agua Fria. Note: pick-up in water.



9/6/70 Agua Fria north of Indian School Road. Est 3k. @ Peak 10-15k



Downstream from Indian School Road on Agua Fria.

