



# City of Homer

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Public Works

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## Memorandum 20-087

TO: Mayor Castner and Homer City Council  
THROUGH: Rick Abboud, Acting City Manager  
FROM: Jan Keiser, PE, JD, Director of Public Works  
DATE: June 16, 2020  
SUBJECT: Proposal to Fund the Small Works Drainage Improvement Program

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I. **Issue:** The Public Works Department's Operating Budget covers the normal labor and equipment required to perform preventative maintenance on road drainage systems. However, there not is not enough money in the Operating Budget to perform extraordinary repairs or reconstruction. For example, many of the culverts in the City's roads have decayed, causing drainage and road failures. The Operating Budget does not have enough money to replace such culverts.

II. **Background:**

A. **The City Council identified storm water management as a priority issue.** At its January 2020 Planning Retreat, the City Council identified, as a "Large – 2<sup>nd</sup> priority", the need "to develop a comprehensive stormwater...implementation" plan...that provides adequate and safe drainage of storm water to protect city infrastructure and water quality..."

B. **We need a way to fund repair/reconstruction work of drainage systems that goes beyond normal preventative maintenance.** The Road Maintenance Plan catalogs the condition of City roads and drainage ways. It provides a systematic way of (1) assessing the condition of the City's roads/drainage networks and (2) documenting regular preventative maintenance activities, which are funded by the normal Operating Budget. The Plan also helps identify situations where regular preventative maintenance is not enough; that is, the conditions require more extensive repair or reconstruction. For example, the Road Crew often encounters sink holes caused by decayed culverts or storm drain lines, blocked drainage ditches caused by failed private driveway culverts or exposed ditch lines that need to be hydroseeded to prevent erosion.

Many of these case do not merit a full-blow capital improvement project, because the Road Crew has most of the capacity, in labor and equipment, to perform the

work in-house. However, it does not have the budget for materials or supplemental contractor support. In these cases, we need a “bucket” of money that can pay for sections of culvert, contract hydroseeding, gravel backfill, filter fabric or construction materials required for the rehab work. We propose to call this “bucket”, the Small Works Drainage Improvement Program.

- C. Resolution 17-092(A) and Resolution 17-092(A) established a minimum set aside budget from the HART-Roads fund to be used for capital construction and maintenance of roads.** A minimum of \$550,000/year was to be set aside from sales tax revenues to fund the construction of new, and maintenance of existing, roads and trails. Of this, \$500,000/year was to be set aside for roads and \$50,000/year was to be set aside for trails. As of March 31, 2020, \$5,995,992.62 has accumulated in the HART-Roads fund. We propose to use some of this money for a Small Works Drainage Improvement Program, which would be used for spot repairs of existing drainage works.

I propose a budget of \$110,000 for this program. For example, we have identified the need to replace approximately 638 LF of 18-24 inch culvert at an estimated cost of \$62,800 for materials and approximately 170 LF of 24-36 inch storm drain line, which needs to be slip lined by a 3<sup>rd</sup> party contractor, at an estimated cost of \$39,000. A list of “hot spots” is attached.

Funds that are not expended from this bucket would remain in the HART Fund.

- D. A Small Works Drainage Improvement Program meets the criteria set forth in the HART Policy Manual.** The City Council, on April 24, 2017, passed Resolution 17-038, which adopted the Homer Accelerated Roads and Trails Program (“HART”) Manual. The HART Manual identified a set of nine criteria for projects that may be considered for HART funding. The criteria, which would be met by a Small Works Drainage Improvement Program include:
- Improves life, safety and traffic flow
  - Corrects deficiencies of existing systems
  - Corrects drainage problems
  - Reduces maintenance costs

- III. Action Recommended:** That the City Council pass the proposed ordinance authorizing expenditure of \$110,000 from the HART-Roads Fund for the procurement of materials and supplemental contractor support for the Small Works Drainage Improvement Program.

### Culvert Replacements Needed

- Main/Cityview – NW SD Lateral 18" x 30'
- Main/Danview – NE SD Lateral 24" x 30'
- Main/Lee – NE SD Lateral \*\*\*Slip Lining\*\*\* 24" x 35'
- Svedlund/Fairview – NW SD Lateral 18" x 23'
- Svedlund/Lee NW SD Lateral 18" x 30'
- Svedlund – North SD terminus E Lateral 18" x 30'
- Kachemak Way/Elderberry NE SD Lateral 18" x 25'
- Kachemak Way/Elderberry NW SD Lateral 18" x 25'
- Kachemak Way/Mountainview NE SD Lateral 18" x 20'
- Kachemak Way/Mountainview NW SD Lateral 18" x 25'
- Mullikin/Soundview Cross Culvert 24" x 50'
- Islandview Cross Culvert – Plan for CIPP Lining 36" x 60'
- Clover Lane/Place Cross Culvert – Push Lining? 24" x 75' (Plus Catch Basin)
- Paradise Place cul-de-sac cross culvert – replace with 24" x 60'
- 5500 Orion Circle – Replace at cul-de-sac with 24" x 40'
- Cottonwood E of Janeview – Add 5 to 10' of pipe to the south end
- Elderberry Drive – Rotted cross culvert east of Kachemak Way 24" x 40'
- Lakeshore Drive/Douglas – Replace cross culvert 18" x 50' (currently 24")
- Ben Walters Lane – Replace cross culvert by BW Park 30" x 40' (deepen it 50')
- Ben Walters/Smoky Bay Way – Replace end sections on cross culvert
- Danview/Gavin Court Cross Culvert 24" x 55'

Danview FH Approach W of Danview 24" x 20' (currently 30')

	HART - Roads	Already designated in Operating Budget
<b>Fund Balance thru 3/31/20</b>	\$ 5,995,992.62	
<b>Fund balance remaining - \$5,342,992</b>	\$ 5,342,993	
Fuel Island Replacement - \$95,000	\$ 95,000	\$ 85,000.00
<b>Fuel Island Replacement Designated - \$85,000</b>	<b>\$ 85,000</b>	
Small Works Drainage Improvement Program - \$110,000	\$ 110,000	
Small Works Road Repair Program - \$175,000	\$ 175,000	
Main Street Storm Drain and Sidewalk Project - Pioneer Avenue North - \$98,000	\$ 98,000	
Update 1979 Drainage Management Plan - \$90,000	\$ 90,000	

