

# *Hedge Diversion Dam Replacement*

*July 2012*

## *A LOMR Case Study*



*Presented by  
Paul Parson, PE, CFM  
At the DNRC Floodplain  
Engineering 101  
Workshop*

# *The Bitterroot River*

- Except for the valley bottom and some foothills, the drainage area is steep, mountainous land.
- Major flooding occurs in May and June

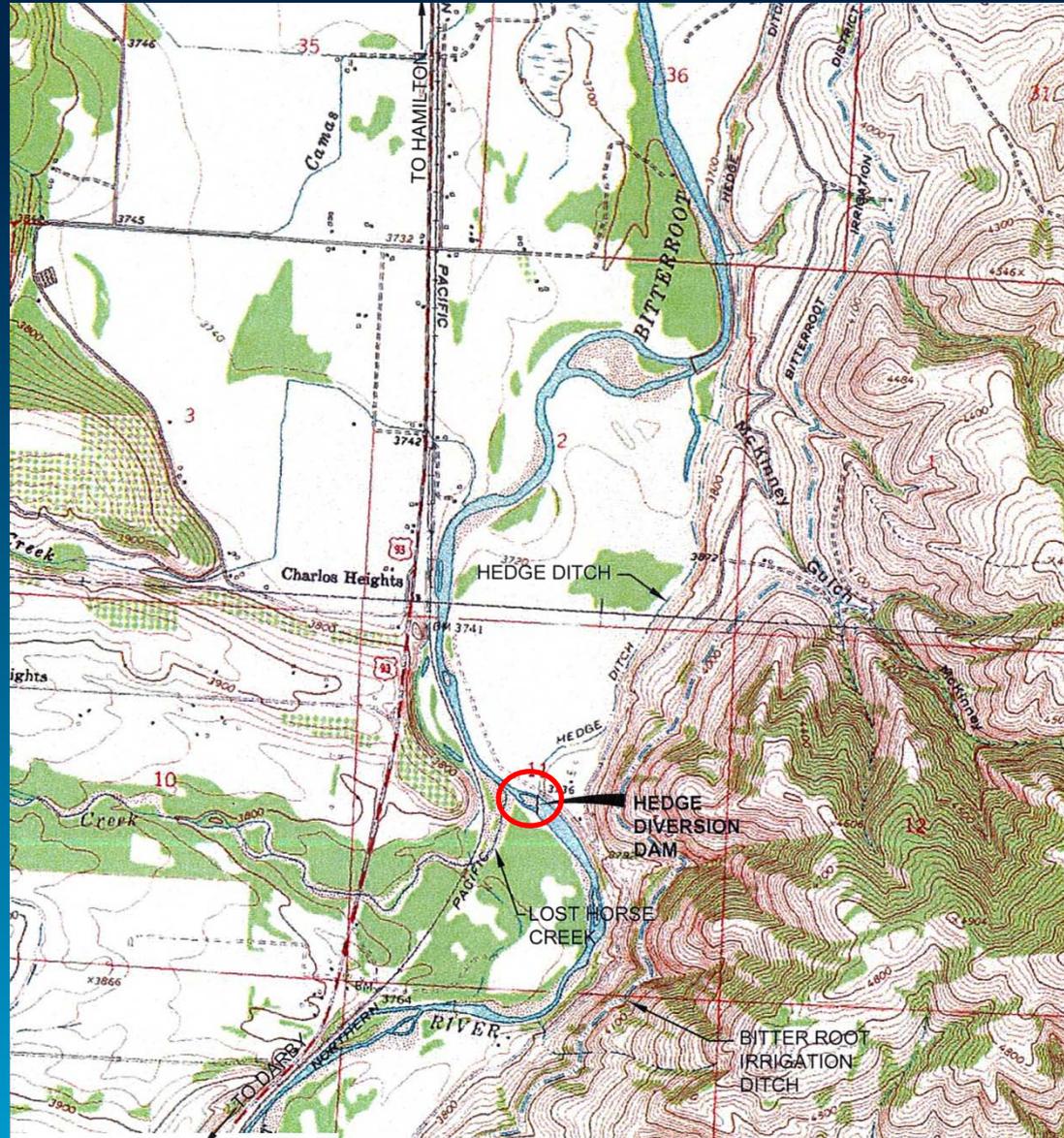


# *The Bitterroot River*

- Important resource in the valley - used for recreation and irrigation



# Daly Ditches Irrigation District Hedge Diversion Dam Replacement



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# *Daly Ditches Irrigation District Hedge Diversion Dam Replacement*

- Background

- Hedge Diversion

- ✓ 320' Length x 16' width ~ 3' drop

- ✓ Hedge Canal

- 140 cfs serving ~ 800 irrigators and 6,108 acres over 25 miles

- ✓ Constructed in 1908

- ✓ Repeated Failures in 2009



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- **Schedule**
  - PER Planned Diversion Structure for 2013
  - Emergency Need
  - ARRA Opportunity
  - Permitting vs Construction Window
  - Construction 2010

*Diversion Dam 3 Years Ahead of Schedule*

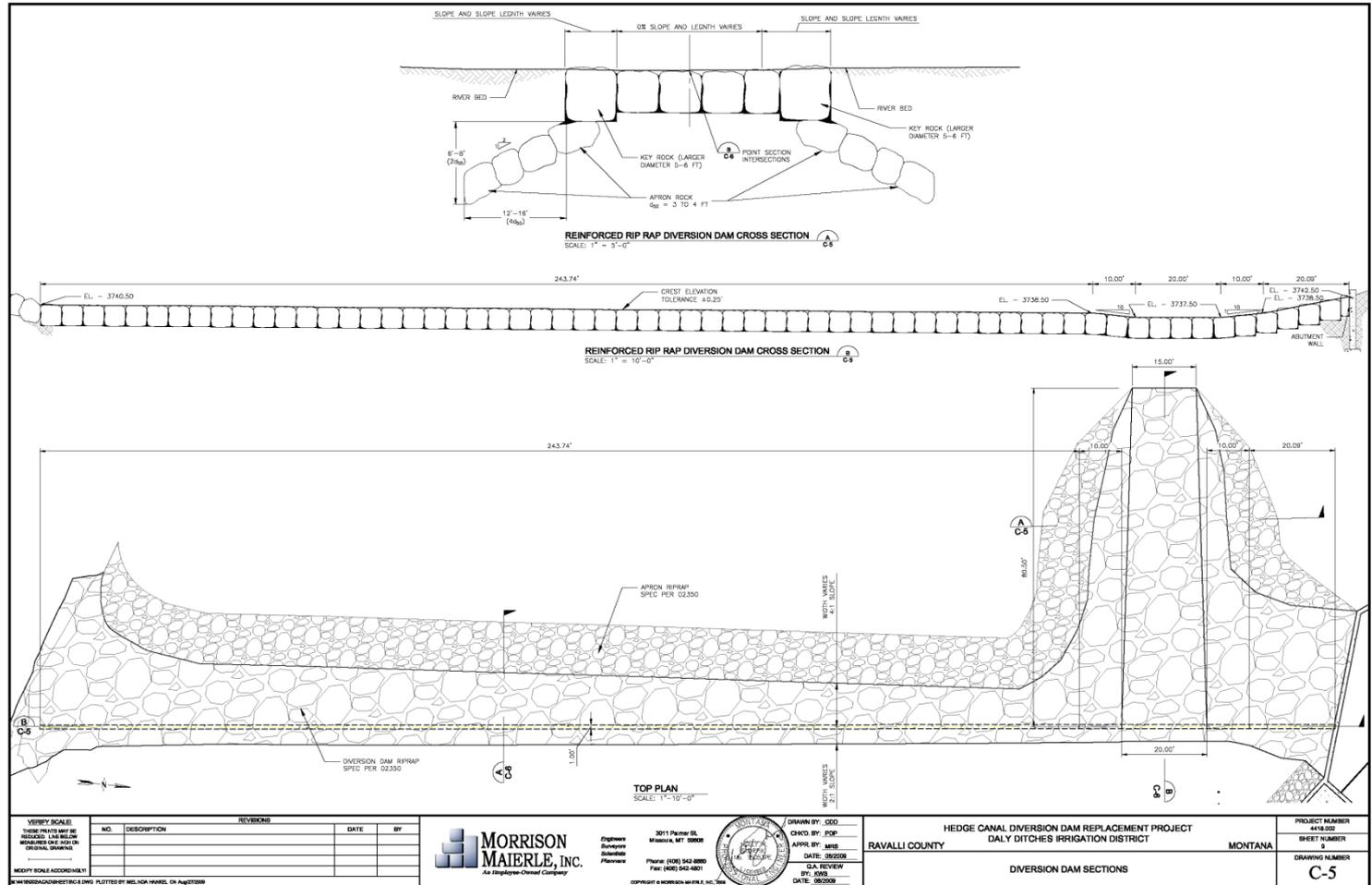


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- **Project Scope**
  - **Diversion Dam**
    - ✓ Boulder (Grouted) Diversion Structure
    - ✓ Boater Passage
    - ✓ Diversion Apron
  - **Concrete Abutment Wall**
  - **Intake – Triple Barrel with Headgates**
  - **Trash Rack**
  - **Vertical Plate Fish Screen**



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# *Daly Ditches Irrigation District Hedge Diversion Dam Replacement*

- Design
  - July – August 2009
- Permitting
  - July – November 2009
- Bidding
  - September 2009
- Construction
  - January – April 2010



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02/15/2010

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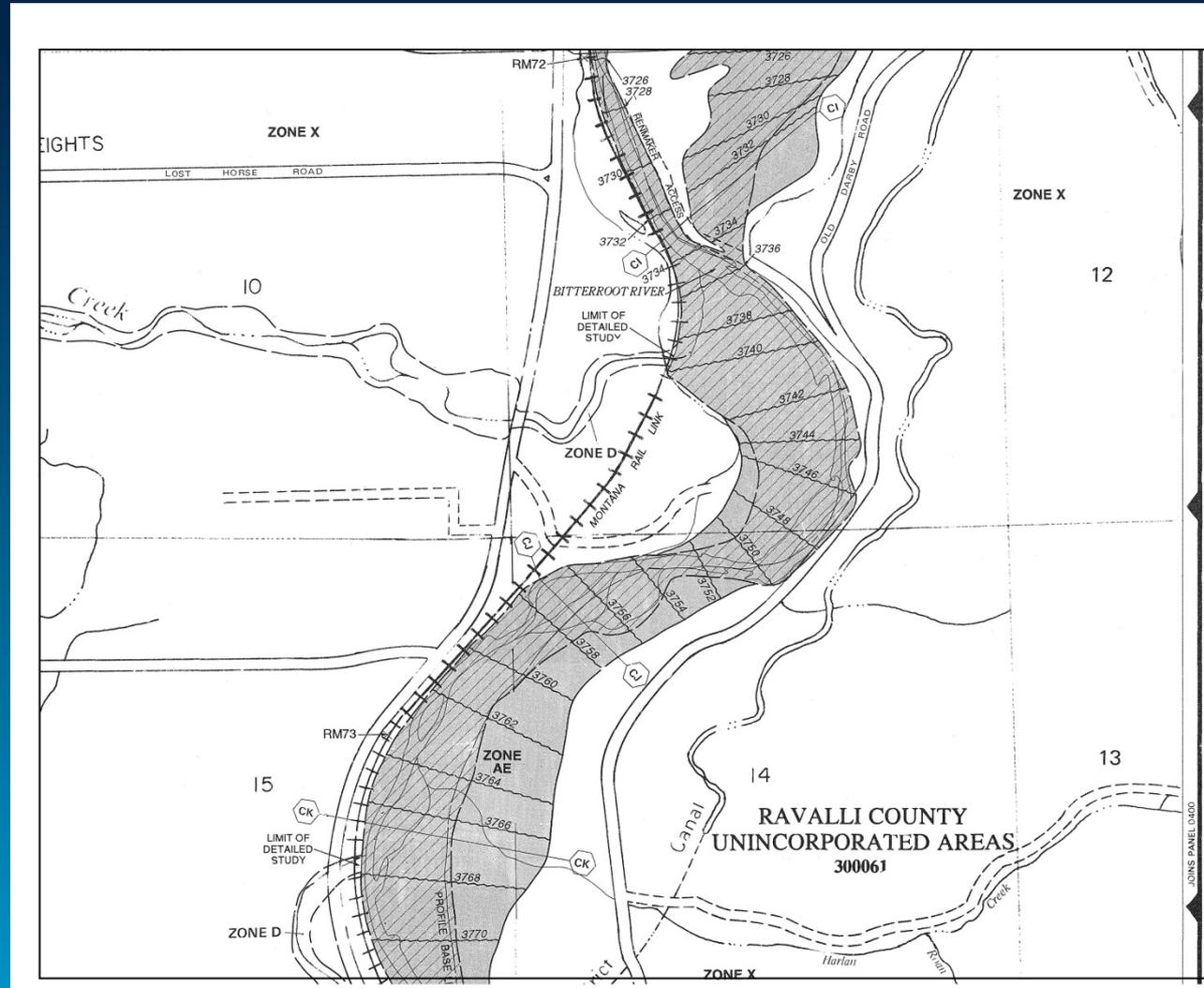
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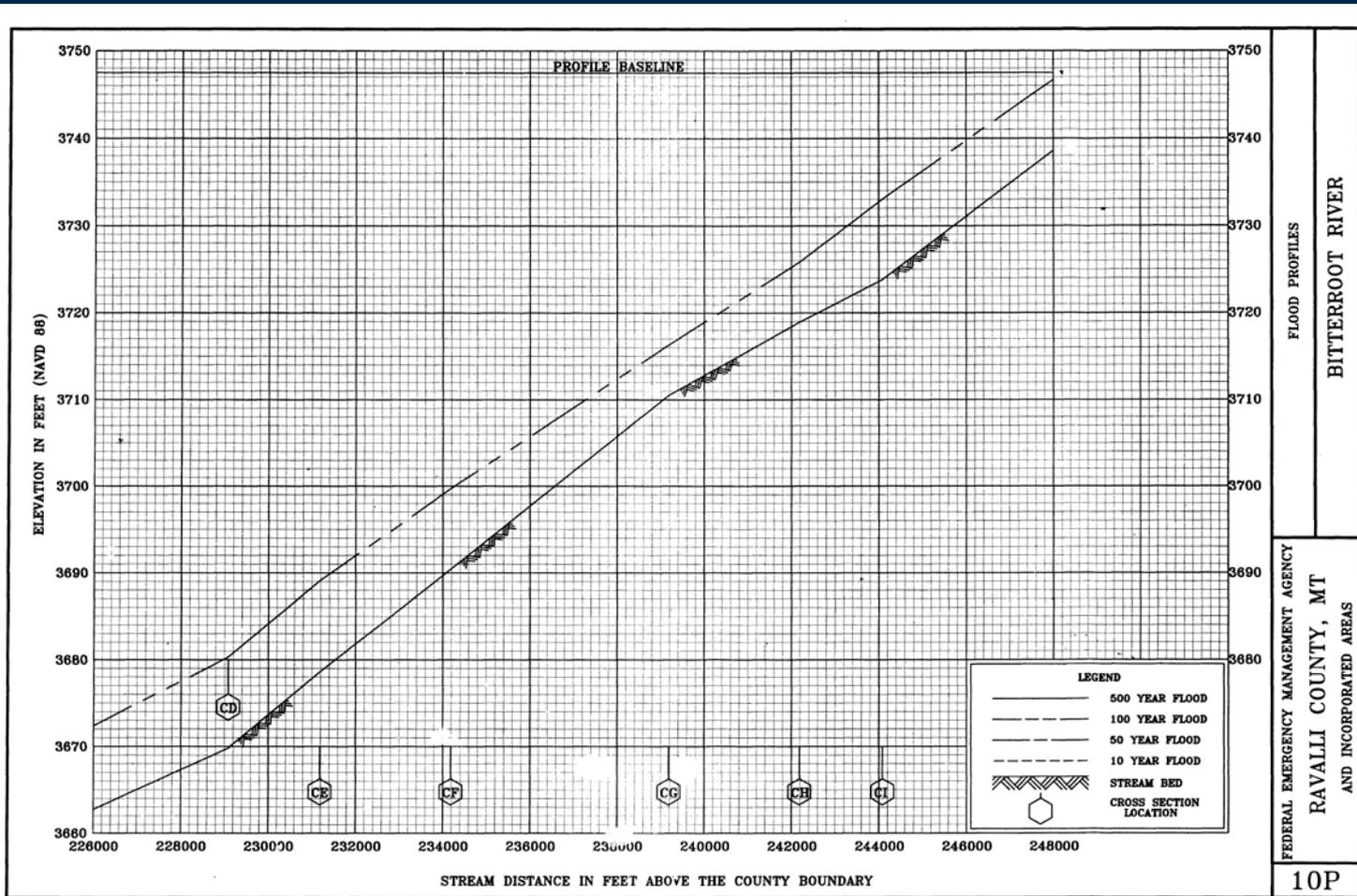
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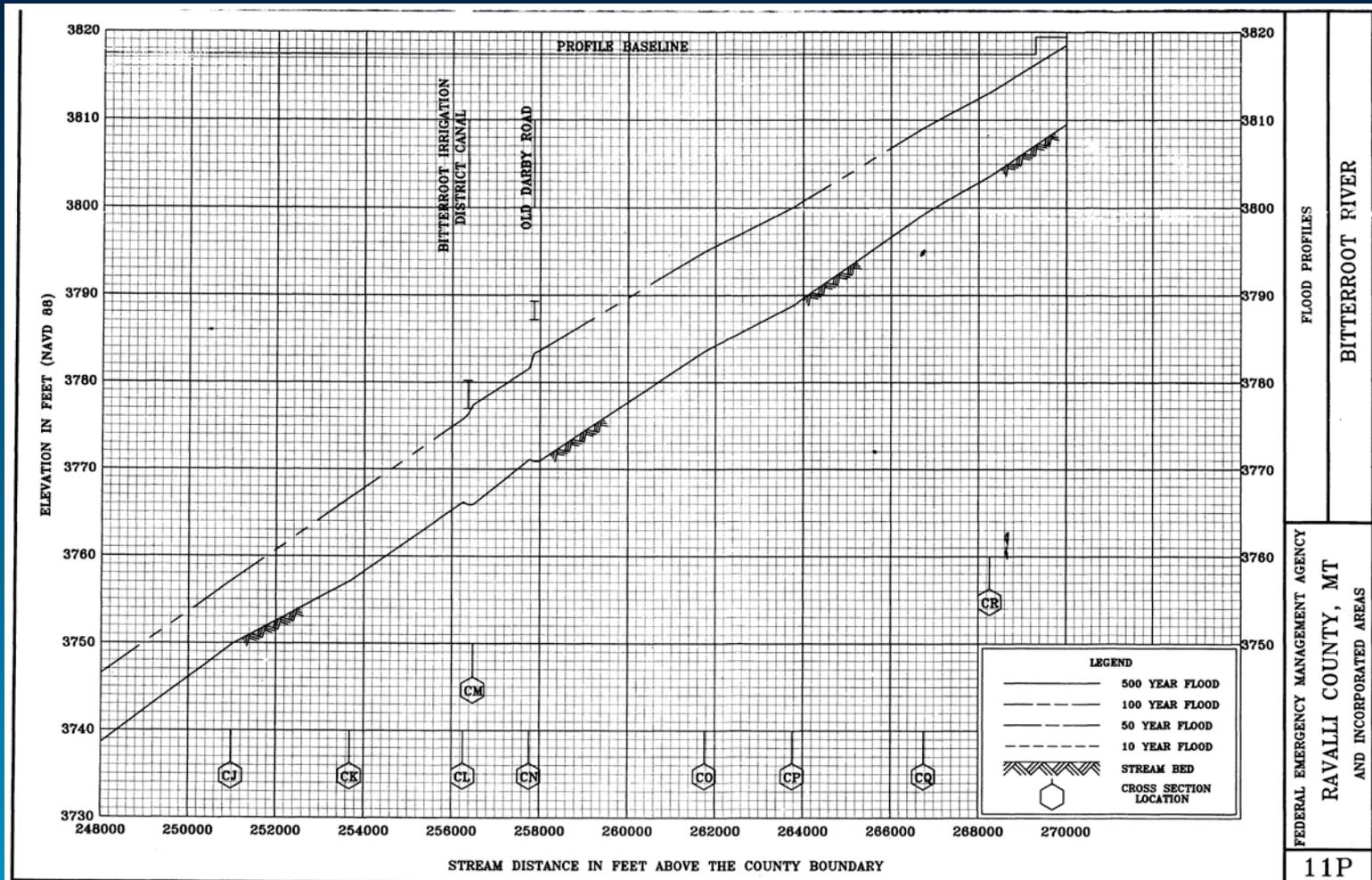
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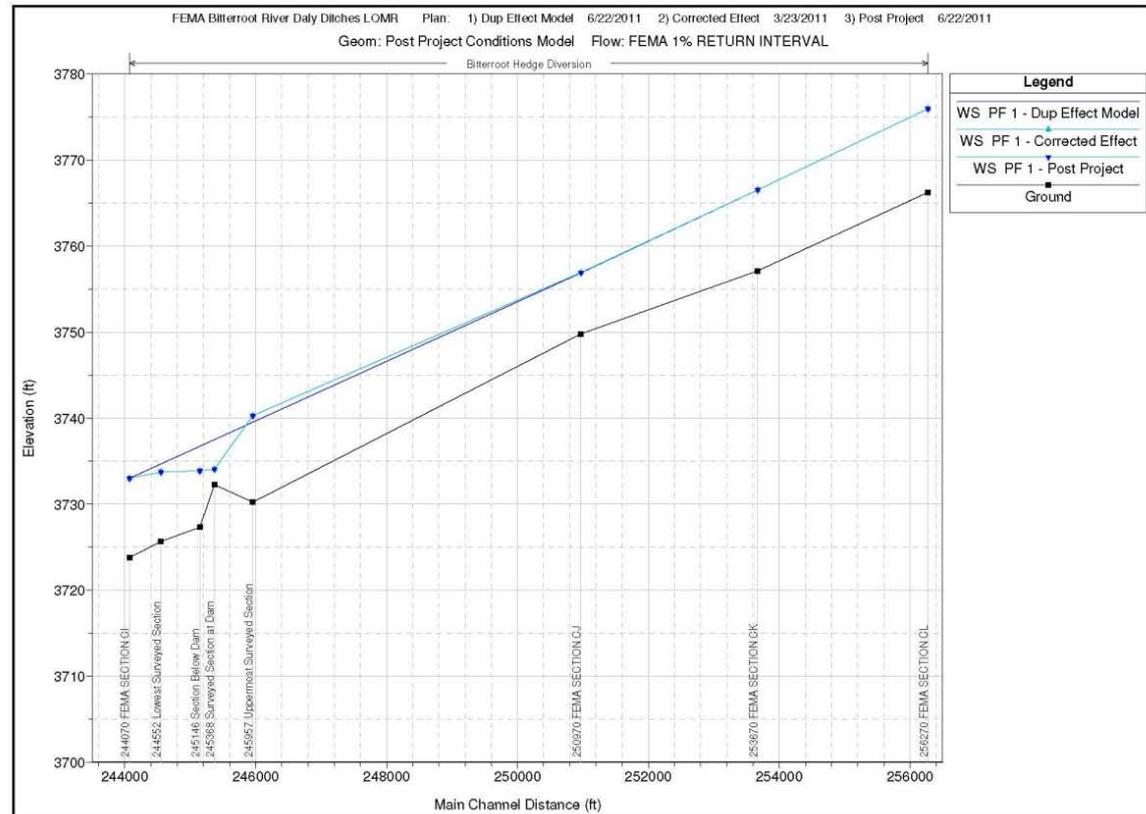
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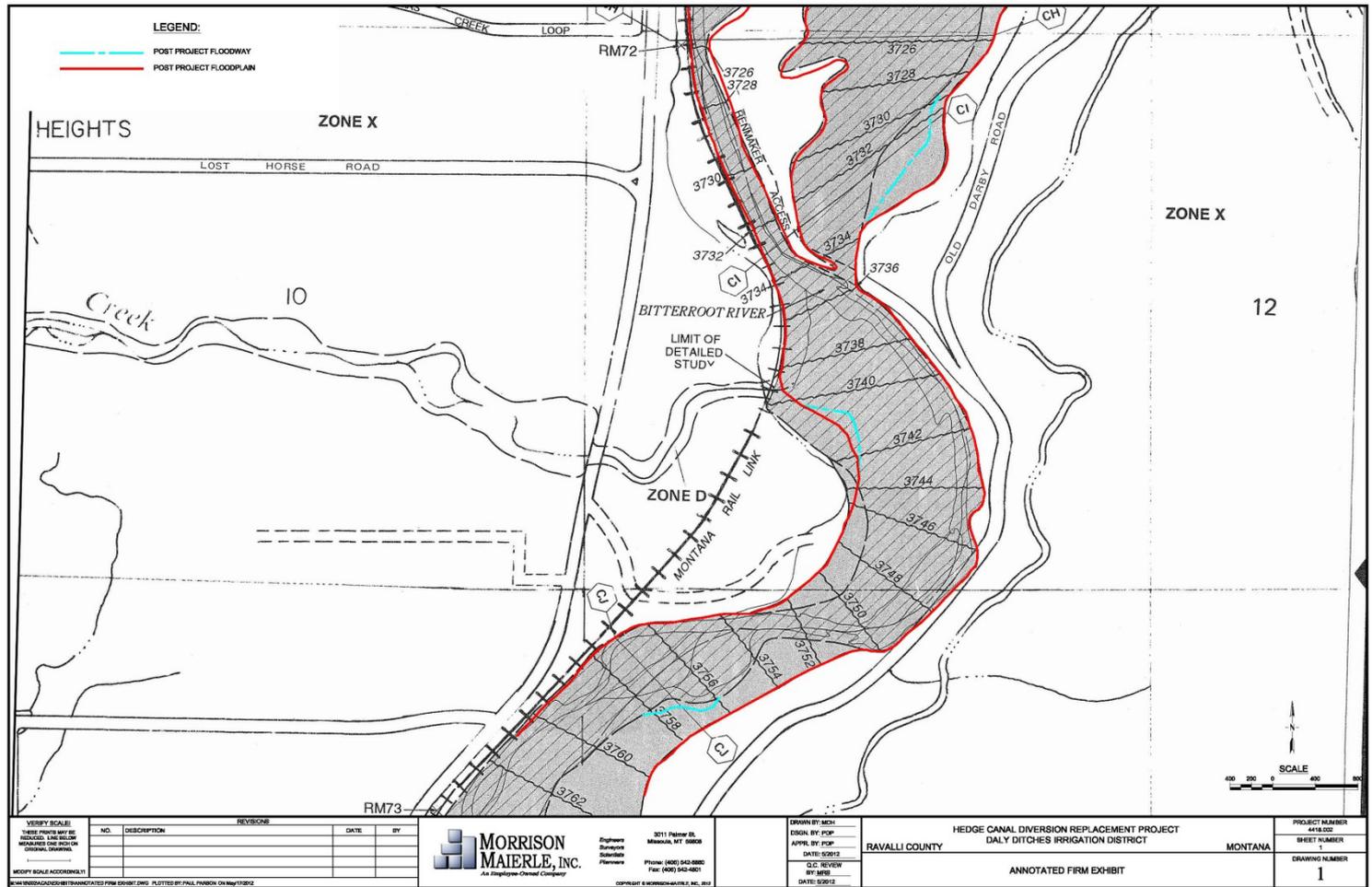
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# Questions?

