

## Information for File #2013-01458-TAW

**Applicant:** Goodhue County, c/o Mr. Marty Dale

**Corps Contact:** Travis Wiley, U.S. Army Corps of Engineers, 180 5<sup>th</sup> Street East, Suite 700, St. Paul, MN, 55101-1678; 651-290-5357; [travis.a.wiley@usace.army.mil](mailto:travis.a.wiley@usace.army.mil)

**Primary County:** Goodhue

**Location:** Section 27, Township 113N., Range 16W.

**Information Complete On:** August 28, 2014

**Posting Expires On:** September 8, 2014

**Authorization Type:** Section 404 Letter of Permission (LOP-05-MN)

This application is being reviewed in accordance with the practices for documenting Corps jurisdiction under Sections 9 & 10 of the Rivers and Harbor Act of 1899 and Section 404 of the Clean Water Act identified in Regulatory Guidance Letter 07-01. We have made a preliminary determination that the aquatic resources that would be impacted by the proposed project are regulated by the Corps of Engineers under Section 404 of the Clean Water Act. Our jurisdictional review and final jurisdictional determination could result in modifications to the scope of the project's regulated waterbody/wetland impacts and compensatory mitigation requirements identified above.

### PROJECT INVOLVES:

- 1) *A Listed State-Impaired Water:* According to the MPCA's TMDL website, the section of the Cannon River within the project area is impaired for aquatic consumption by PCBs in fish tissue, aquatic life by turbidity, and aquatic recreation by fecal coliform.
- 2) *FEMA 100-Year Floodplain:* The FEMA Flood Insurance Rate Map (panel number 27049C0165E) shows the project area is within the 100-year floodplain of the Cannon River.

### PROJECT DESCRIPTION AND PURPOSE:

On October 10, 2013, the Corps of Engineers issued letter of permission permit MVP-2013001458-SEW to Goodhue County for the installation of toe wood protection, placement of 16-foot wide coir erosion control mats and excavation of a 20- 30 foot-wide bankfull elevation bench along 1,100 linear feet of the right descending bank of the Cannon River near Welch, Minnesota. The permit also authorized the construction of two rock J-hooks and one rock barb in the Cannon River, along the same reach, to bankfull elevation level.

Overbank flooding in 2014 resulted in the erosion of an area on the lower portion of the project area. To repair bank erosion, Goodhue County has requested a permit modification to repair the bank stabilization project along approximately 475 linear feet of the right descending bank of the Cannon River. The purpose of this project is to prevent the bank from eroding and encroaching onto County Highway 7.

The project involves the placement of fill material and planting along approximately 175 linear feet of the stream bank to repair moderate linear erosion that occurred above existing root wad structures. The applicant would also fill the 200' x 35' (0.20 acre) area that was entirely lost to erosion in a recent flood event and stabilize the stream bank with Class 5 riprap material along 300 linear feet. Coconut fiber control mats, approximately 18 feet wide, would be placed on top of the stabilized banks.

The project also involves the placement of a new rock J-hook and a 50' extension of an existing rock barb into a J-hook. Shallow excavation would occur to facilitate placement of the new J-hook structure, which would be keyed into the bank to prevent the bank from eroding around the rocks. The rocks would be placed to bankfull elevation level. The new J-hook structure would be approximately 112' feet in length, and would extend into the stream approximately 60'. The purpose of the rock structures are to re-direct flow and protect the right descending bank from further erosion.

The project is proposed to begin in the fall of 2014 to take advantage of river low-flow periods. Any exposed soils in the stream bank and buffer area above the bank stabilization work would be seeded to native grasses and planted with native willow species. Goodhue County has obtained a permanent maintenance easement for the stream bank protection area and the native grass buffer area.

This bend of the Cannon River is actively eroding at an average rate of 5.2 feet/year, and during recent years, the erosion rate has increased. The land use adjacent to this river bend is agricultural upland. According to the Goodhue Soil and Water Conservation District (Goodhue SWCD), the average rate of erosion on this bend equates to an input of approximately 2,210 tons of total suspended solids (TSS) to the river per year. Also according to the Goodhue SWCD, the associated TMDL (Total Maximum Daily Load) report indicates that a TSS reduction of approximately 82% is needed at high flow levels in order to reach the goal loading capacity of the Cannon River. As indicated above, the MPCA's TMDL program has reported that the aquatic life use of this section of the Cannon River is impaired for turbidity.

NAME, AREA AND TYPES OF WATERS (INCLUDING WETLANDS) SUBJECT TO LOSS:

As proposed, the project would impact approximately 475 linear feet of the Cannon River for the placement of natural bank stabilization materials. No impacts to wetlands are proposed, as none exist above the bank of the proposed stream bank project.

Impacts to the river would be minimized through the following techniques: use of a biodegradable coconut fiber blanket, constructing in an expected low flow period, siting of the staging area in upland areas that were graded during the bank stabilization work last year.

COMPENSATORY MITIGATION: The applicant has not proposed compensatory mitigation for the proposed project. The project is designed to stabilize an eroding stream bank. The need for compensatory mitigation will be evaluated in the permit review process.

DRAWINGS: See attached drawings labeled "2013-01458-TAW, Figures 1-9".

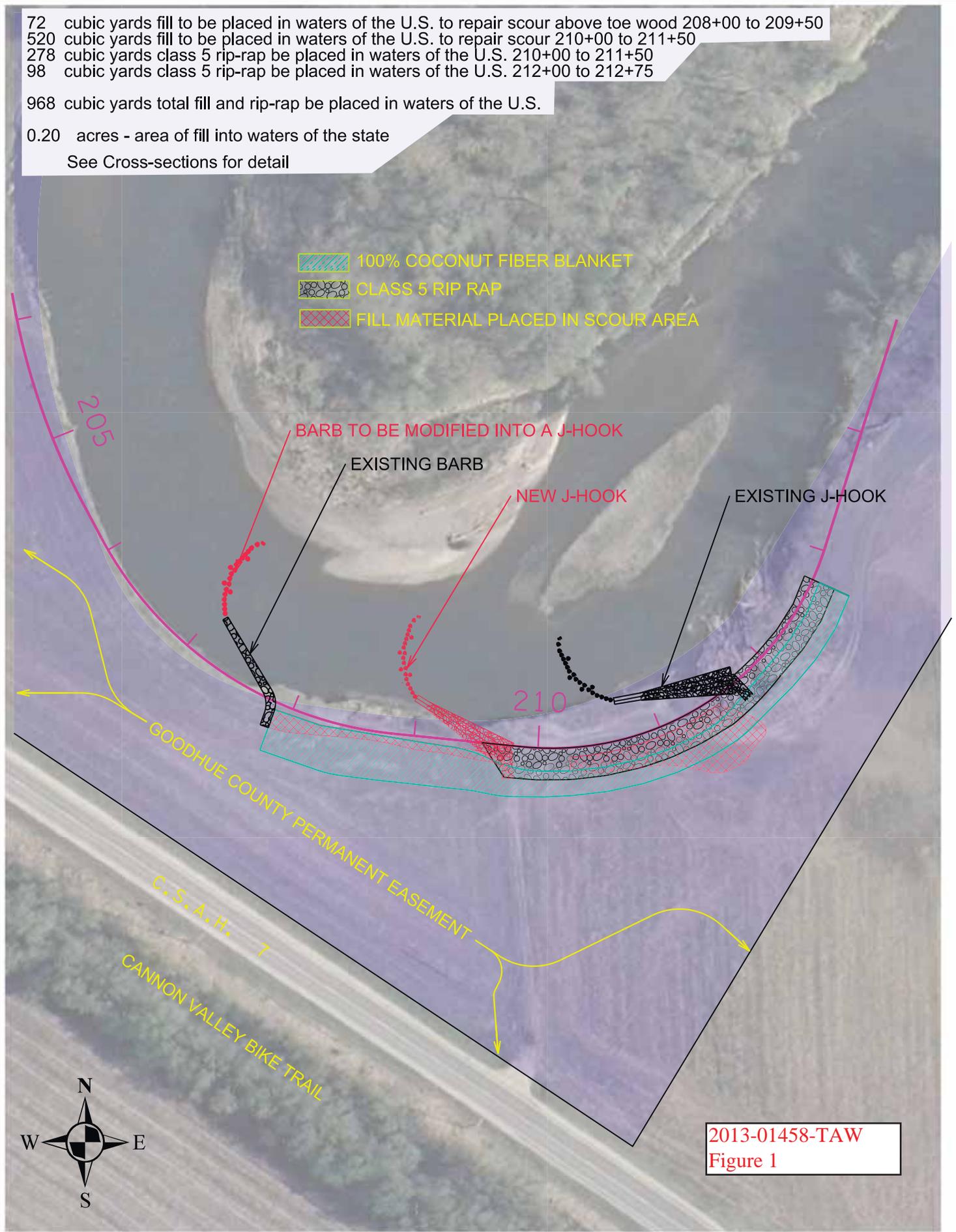
72 cubic yards fill to be placed in waters of the U.S. to repair scour above toe wood 208+00 to 209+50  
 520 cubic yards fill to be placed in waters of the U.S. to repair scour 210+00 to 211+50  
 278 cubic yards class 5 rip-rap be placed in waters of the U.S. 210+00 to 211+50  
 98 cubic yards class 5 rip-rap be placed in waters of the U.S. 212+00 to 212+75

968 cubic yards total fill and rip-rap be placed in waters of the U.S.

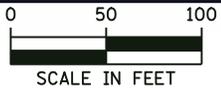
0.20 acres - area of fill into waters of the state  
 See Cross-sections for detail

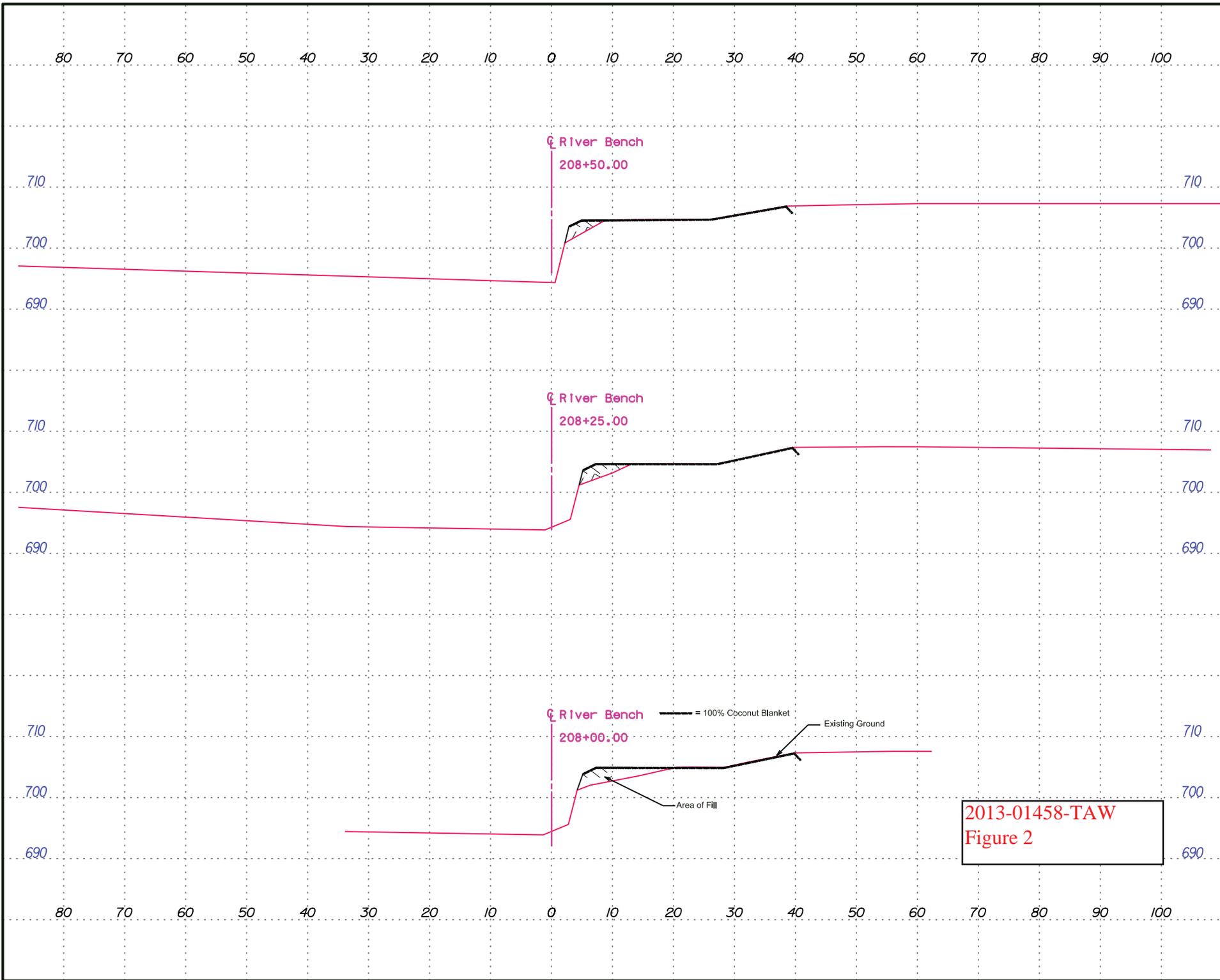
-  100% COCONUT FIBER BLANKET
-  CLASS 5 RIP RAP
-  FILL MATERIAL PLACED IN SCOUR AREA

PATH & FILENAME: P:\CO\_ROADS\7CSAH\CannonRiverBend\_Weich\_Ski area\AlignmentRiverBench2014.dgn MODEL Untitled Sheet



2013-01458-TAW  
 Figure 1



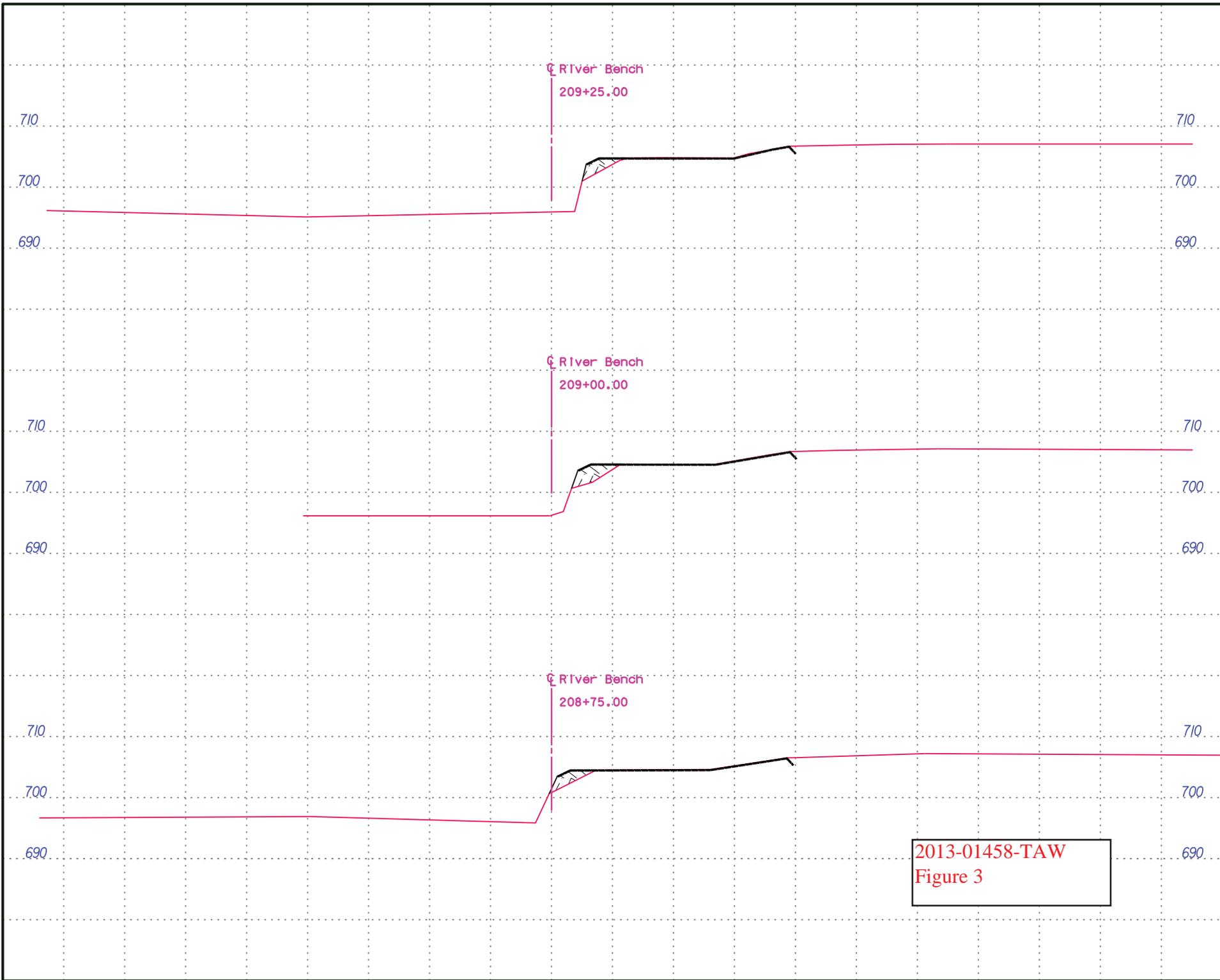


Cannon River Bend - C.S.A.H. 7

Section 27, Twp. 113, R. 16

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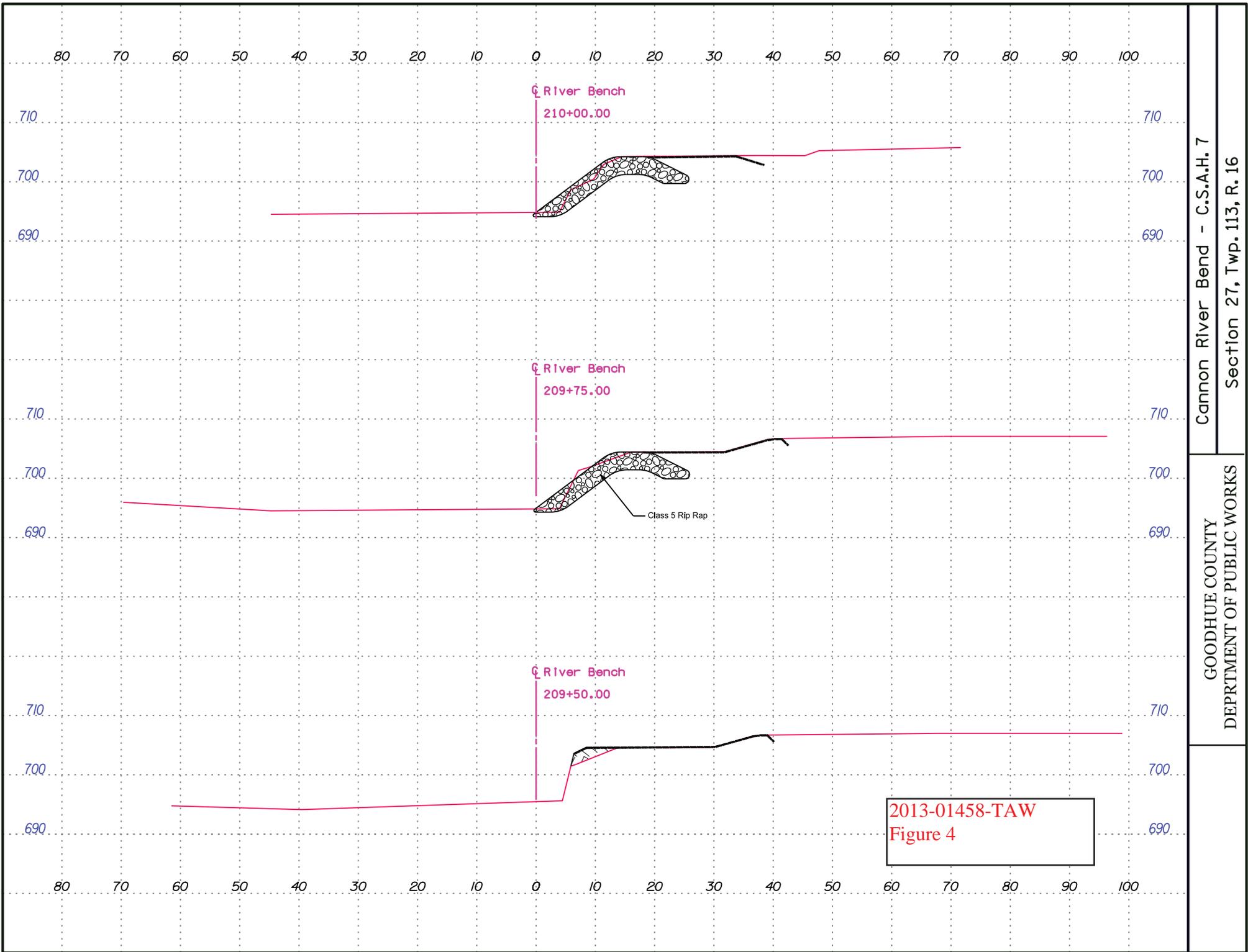
2013-01458-TAW  
Figure 2

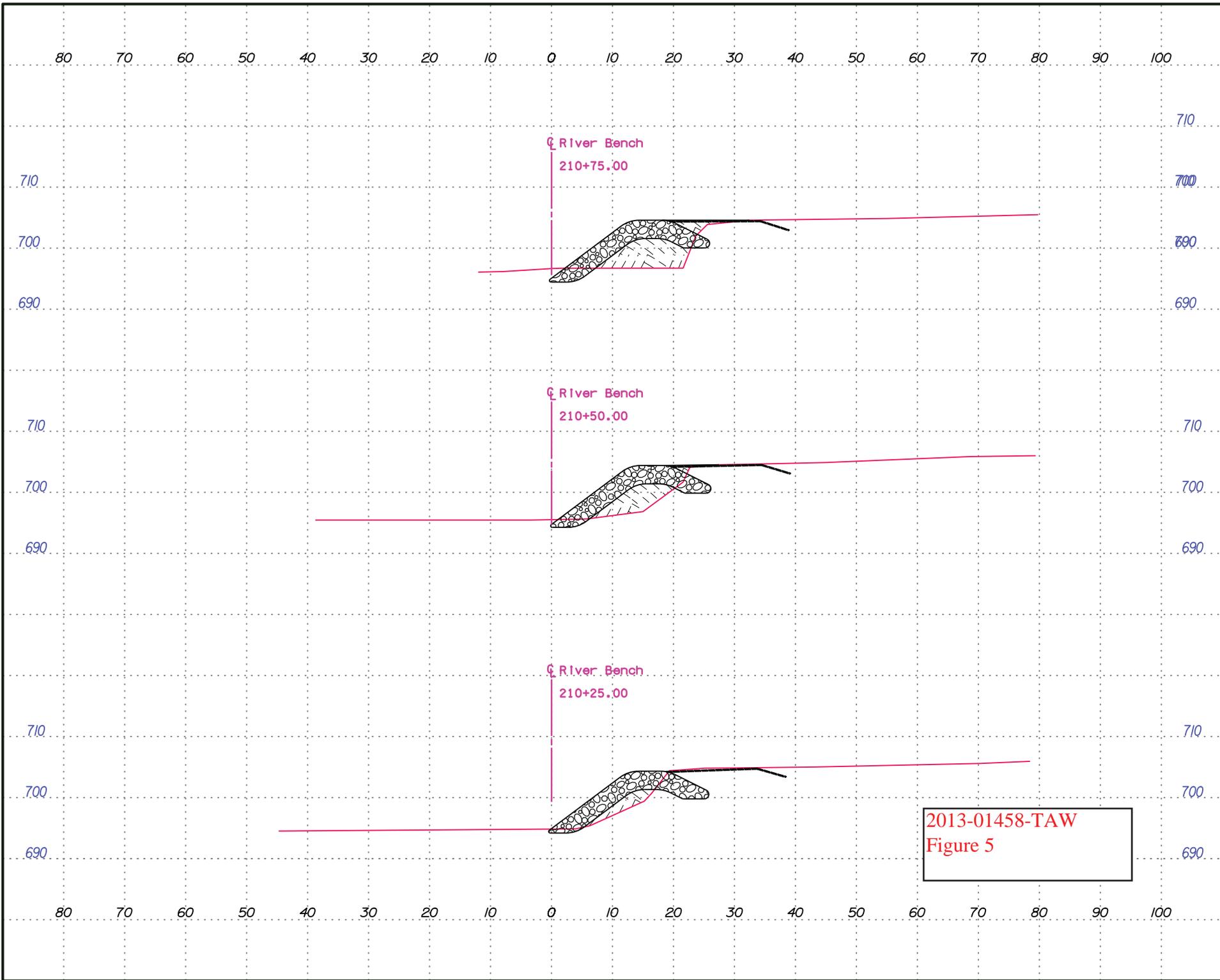


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2013-01458-TAW  
 Figure 3



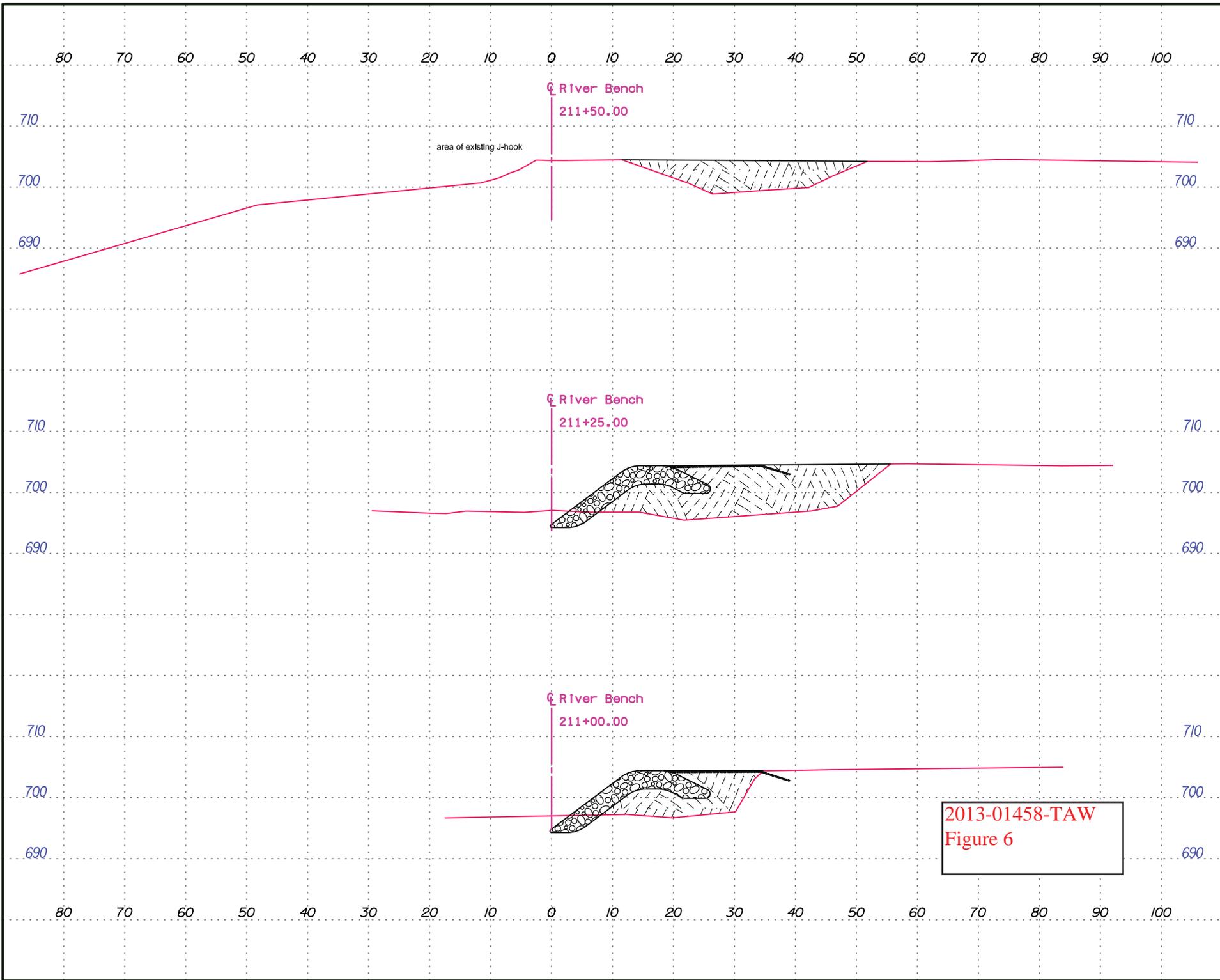


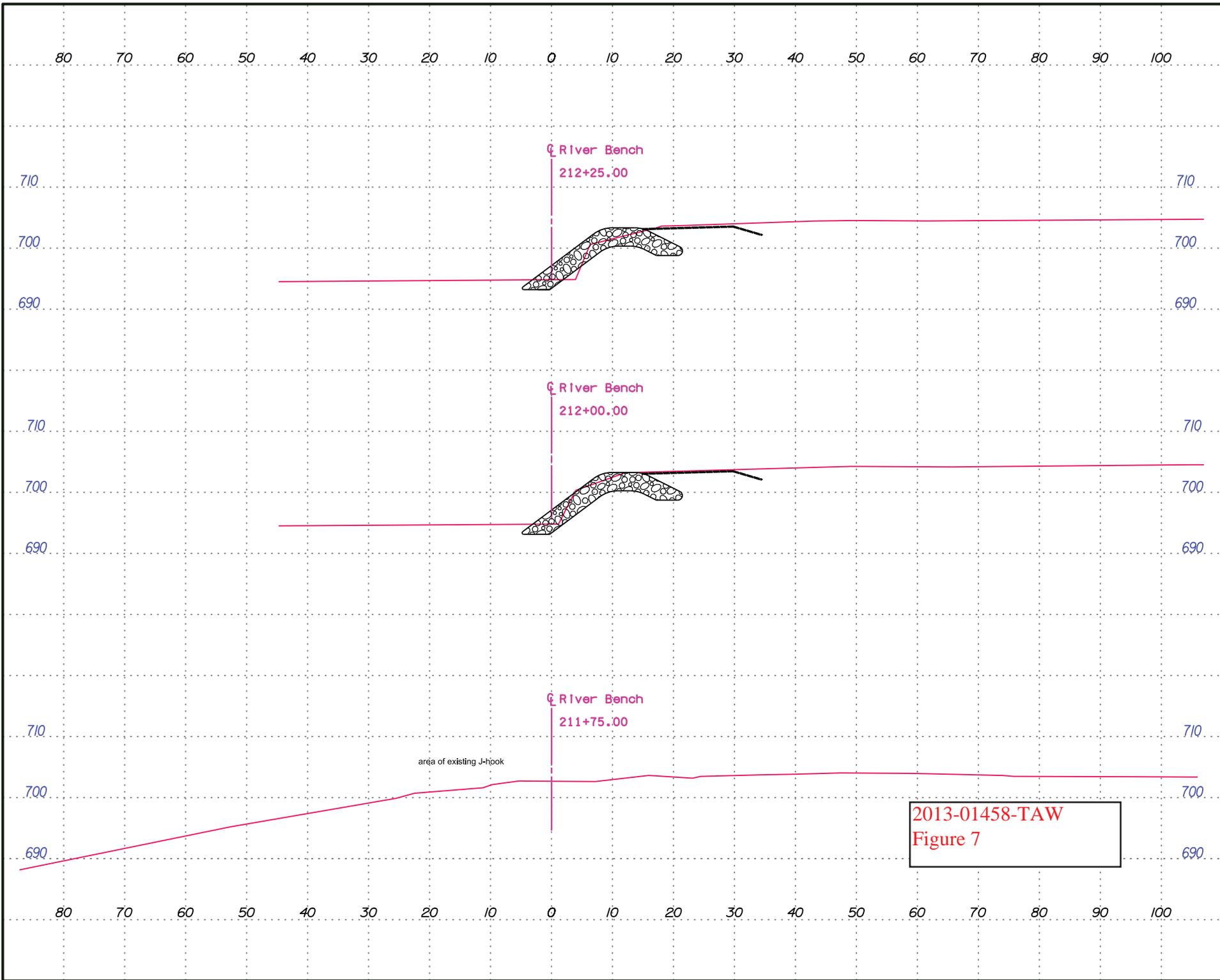
2013-01458-TAW  
Figure 5

Cannon River Bend - C.S.A.H. 7

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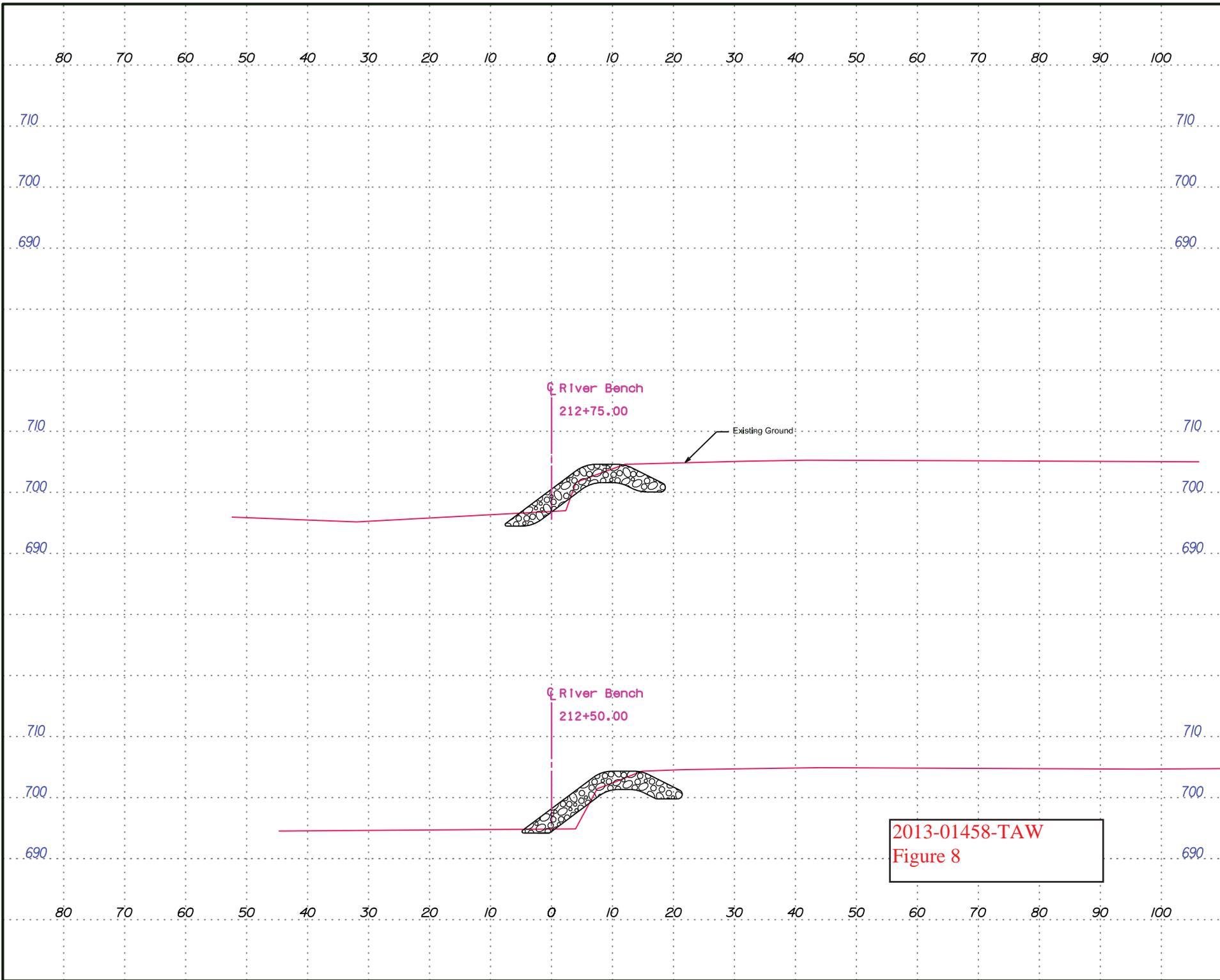




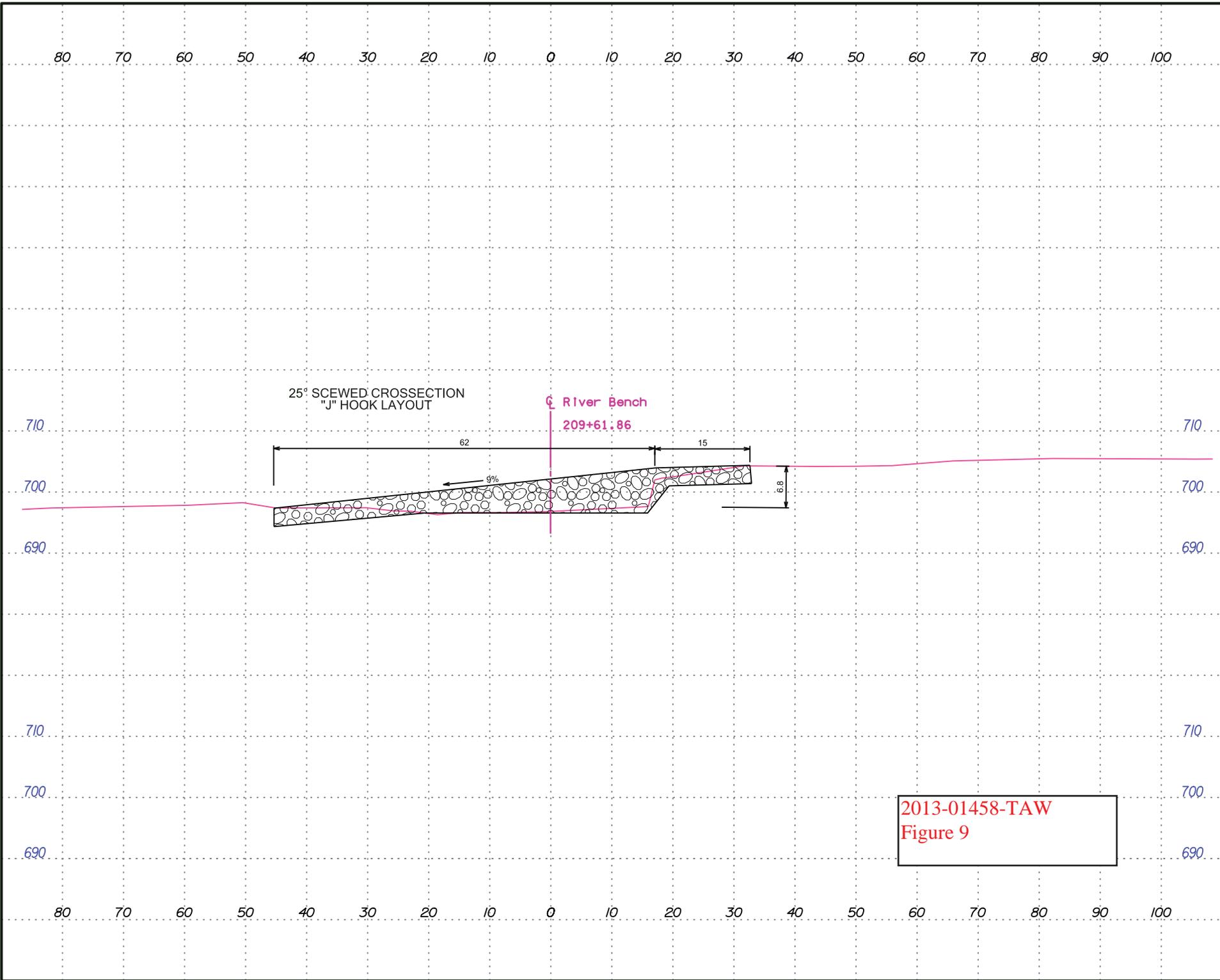
2013-01458-TAW  
Figure 7

Cannon River Bend - C.S.A.H. 7  
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2013-01458-TAW  
Figure 8



⊕ River Bench  
209+61.86

2013-01458-TAW  
Figure 9

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