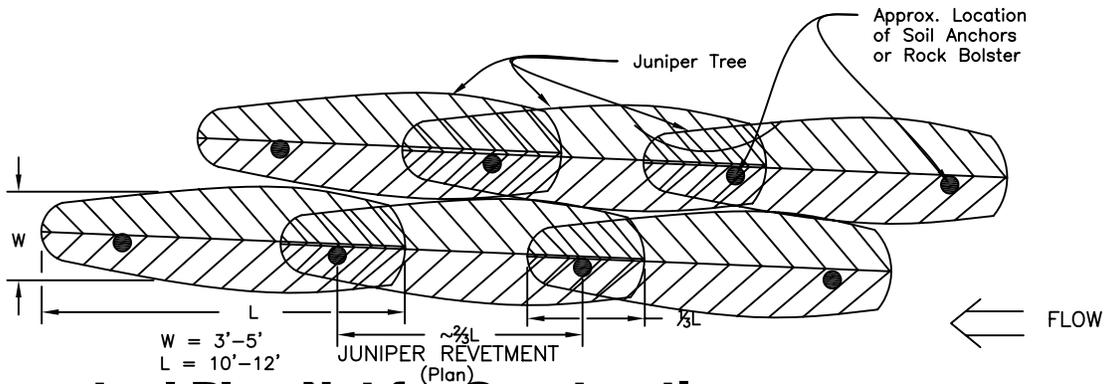


**FULL TREE REVETMENT WITH ROCK BOLSTERS**  
**(PLAN)**  
 N.T.S.

**Notes For Juniper Revetment**  
 Overlap juniper by  $\frac{1}{3}$  length in a shingle-like arrangement. Secure at overlap with three wraps of 12 gage wire or  $\frac{1}{8}$ " cable and clamp securely. Anchor with a minimum of two sets of soil anchors per trunk as per specifications. Start at toe of bank. If additional rows are required, offset by not more than tree width. Press rows tight together. Cable rows together with 12 gage wire or  $\frac{1}{8}$ " cable and clamp.

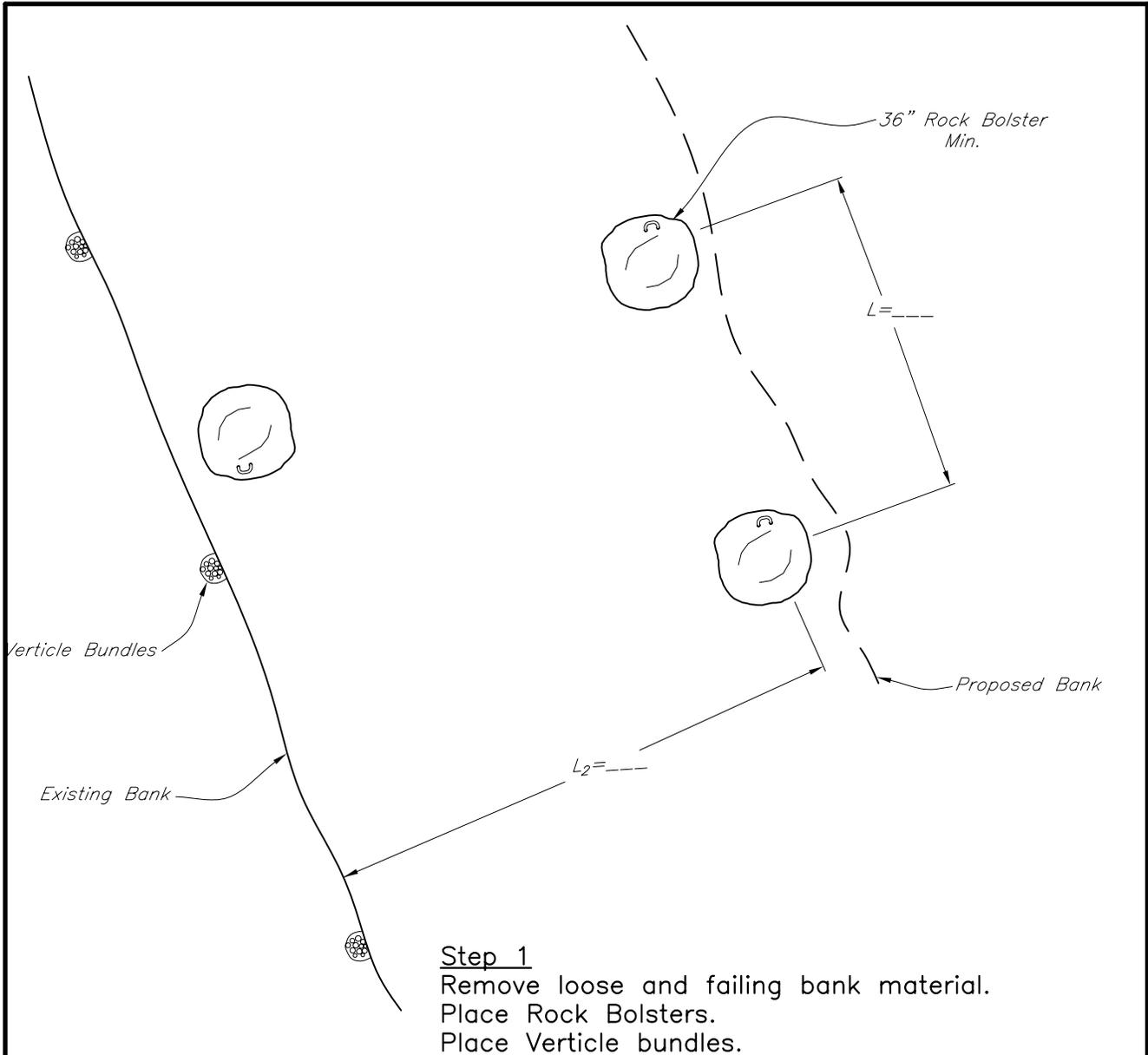


**Conceptual Plan Not for Construction**



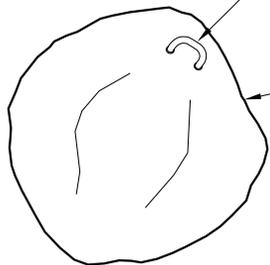
**FULL TREE REVETMENT WITH  
 ROCK BOLSTERS**

Designed <u>J. Fripp C. Haag</u>	Date _____	File Name Tree-Revet-RB1.dwg
Drawn <u>K. Miller, J Renteria</u>		Drawing Name Tree-Revet-RB1-Plan
Checked _____		<u>02/02/06</u>
Approved _____		Sheet 1 of 4



**Step 1**  
 Remove loose and failing bank material.  
 Place Rock Bolsters.  
 Place Verticle bundles.

*1/2" - 1" U-shaped rebar epoxyed into holes*



Notes:

Secure logs to rock bolsters at overlap with a minimum of three wraps of 3/8" diameter galvanized non-greased, wire rope. Drill holes in rock bolsters with gas or pneumatic drill. The minimum depth should be 6 inches. Holes must be clean of all dust, debris, oil, and soap following drilling. Insert a U-shaped or eyebolt rebar into holes several times to dispense and completely mix epoxy and eliminate air pockets. Epoxy resin systems shall meet the requirements of ASTM C881, Type IV Grade 3. Test strength of bond after minimum cure time recommended by the epoxy manufacturer.

**ROCK BOLSTER DETAIL**

N.T.S.

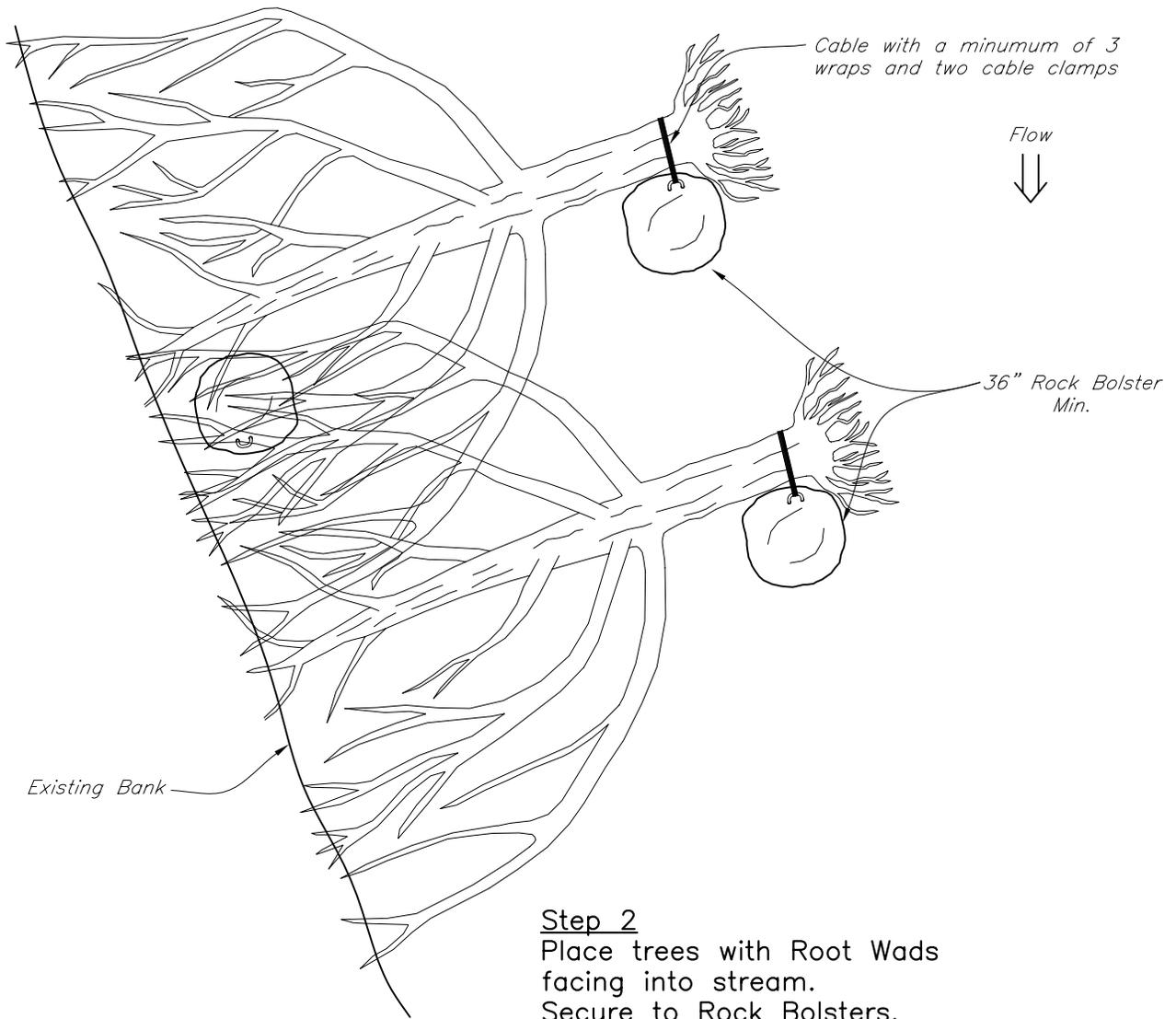
**Conceptual Plan Not for Construction**



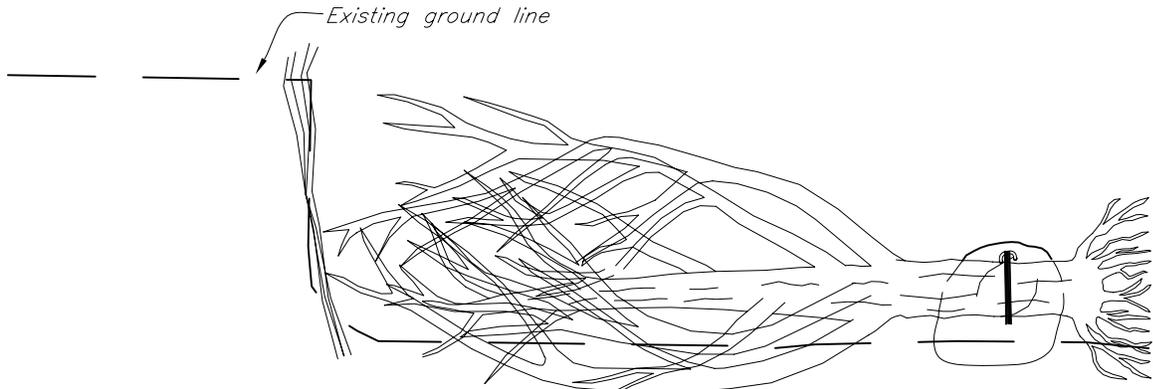
**FULL TREE REVETMENT WITH ROCK BOLSTERS**

Designed	J. Frupp C. Haag, K. Worster	Date	
Drawn	K. Miller, J. Renteria		
Checked			
Approved			

File Name	Tree-Revet-RB1.dwg
Drawing Name	Tree-Revet-RB1-1
	02/02/06
Sheet	2 of 4



Step 2  
 Place trees with Root Wads facing into stream.  
 Secure to Rock Bolsters.



Section

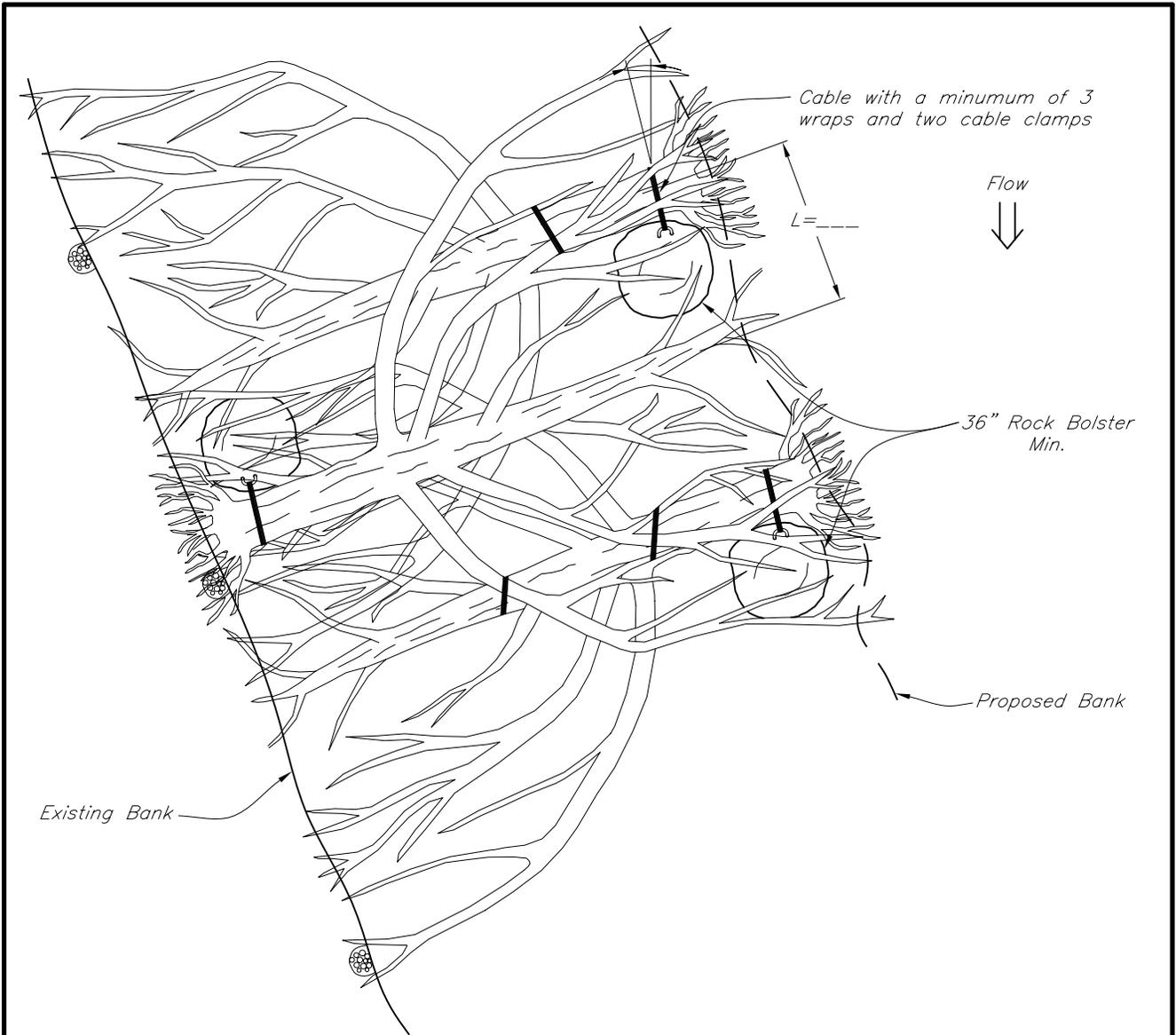
**Conceptual Plan Not for Construction**



**FULL TREE REVETMENT WITH ROCK BOLSTERS**

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Drawn	K. Miller, J Renteria		
Checked			
Approved			

File Name	Tree-Revet-RB1.dwg
Drawing Name	Tree-Revet-RB1-2
	02/02/06
	Sheet 3 of 4



**Step 3**

Place remaining trees with Root Wads secure to adjoining trees with cable adjacent to bank. Secure to Rock Bolsters.

**Conceptual Plan Not for Construction**



**FULL TREE REVETMENT WITH ROCK BOLSTERS**

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Drawn	K. Miller, J. Renteria		
Checked			
Approved			

File Name	Tree-Revet-RB1.dwg
Drawing Name	Tree-Revet-RB1-3
	02/02/06
Sheet	4 of 4