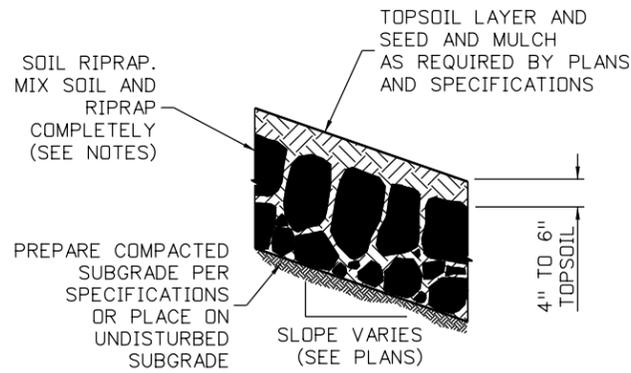
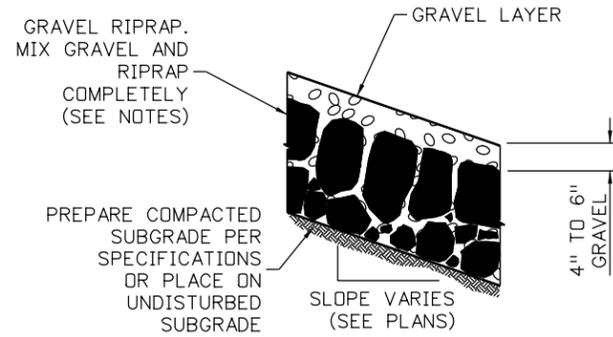


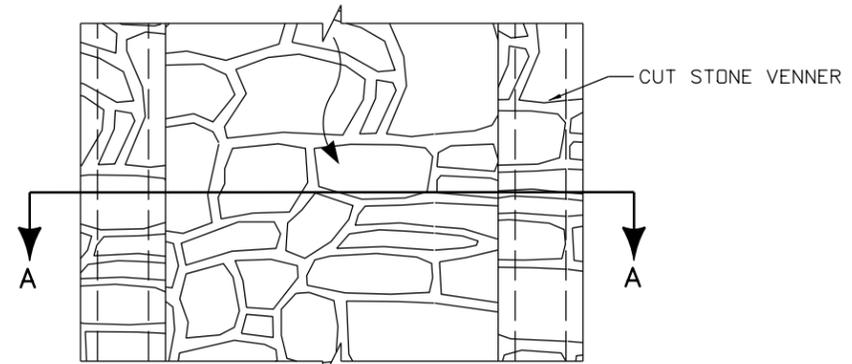
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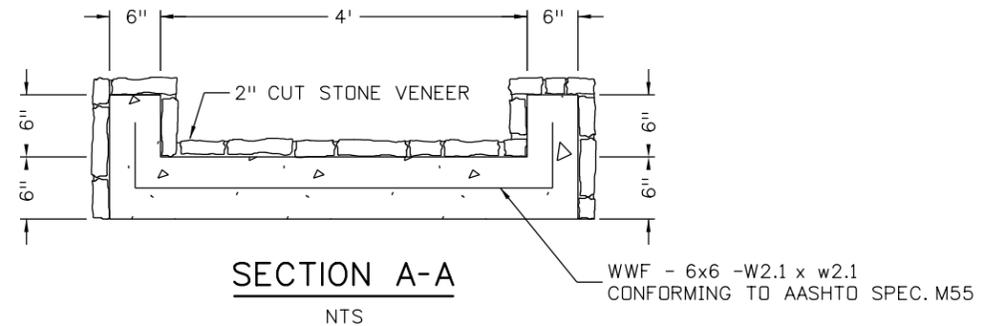
**TYPICAL SECTION
SOIL RIPRAP WITH MULCH
FOR CHANNEL**
NTS



**TYPICAL SECTION
GRAVEL RIPRAP WITH MULCH
FOR CHANNEL**
NTS



**GUTTER (SPECIAL)
PLAN VIEW**
NTS

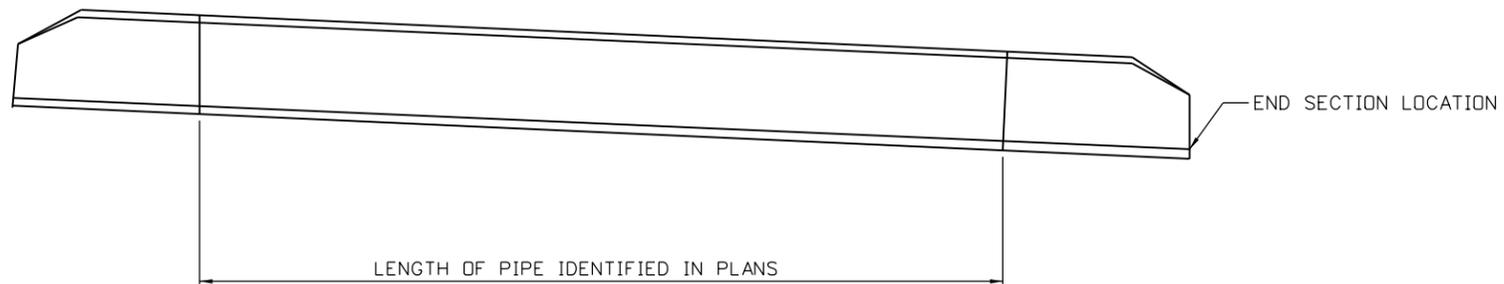


SECTION A-A
NTS

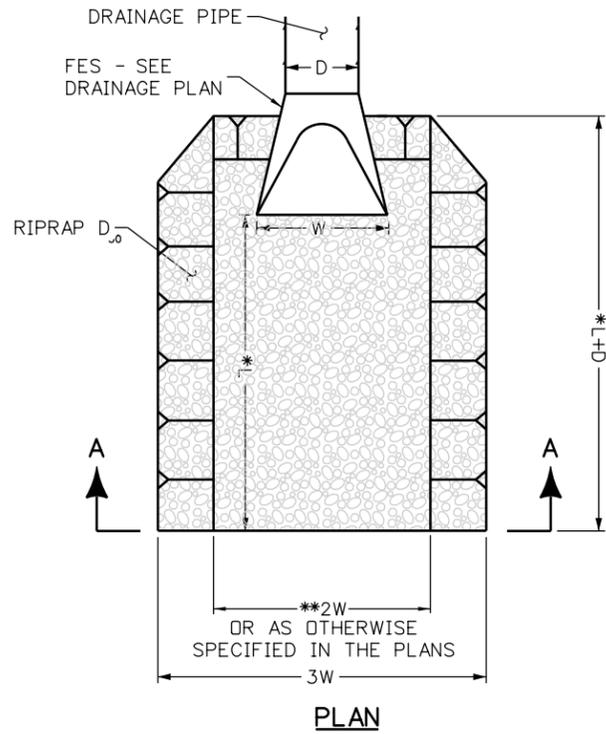
WWF - 6x6 -W2.1 x w2.1
CONFORMING TO AASHTO SPEC. M55

NOTES:

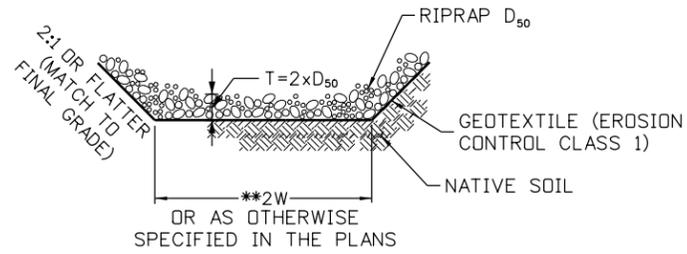
1. SOIL RIPRAP AND GRAVEL RIPRAP DETAILS ARE APPLICABLE TO SLOPED AREAS. REFER TO THE DRAINAGE PLANS FOR ACTUAL LOCATIONS AND LIMITS.
2. MIX UNIFORMLY 65% RIPRAP BY VOLUME WITH 35% OF APPROVED SOIL OR GRAVEL BY VOLUME PRIOR TO PLACEMENT.
3. PLACE RIPRAP-SOIL OR RIPRAP-GRAVEL MIX TO RESULT IN SECURELY INTERLOCKED ROCK AT THE DESIGN THICKNESS AND GRADE. COMPACT AND LEVEL TO ELIMINATE ALL VOIDS AND ROCKS PROJECTING ABOVE DESIGN RIPRAP TOP GRADE.
4. CRIMP OR TACKIFY MULCH ON SOIL RIPRAP OR AS CALLED FOR IN THE PLANS AND SPECIFICATIONS.
5. SEE STORMWATER MANAGEMENT PLAN FOR SEEDING MIXTURE AND DETAILS.
6. BENCH RIPRAP AS NECESSARY TO MATCH EXISTING GRADE AND PLACE STONE-SOIL OR STONE-GRAVEL MIX TO RESULT IN SECURELY INTERLOCKED ROCK AT THE DESIGN THICKNESS AND GRADE. COMPACT AND LEVEL TO ELIMINATE ALL VOIDS AND ROCKS PROJECTING ABOVE FINISHED GRADE.



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* $3D < L < 10D$ (SEE TABLE)
** EQUALS CHANNEL WIDTH FOR PIPE INLETS



ID	L
FES-100	0.0'

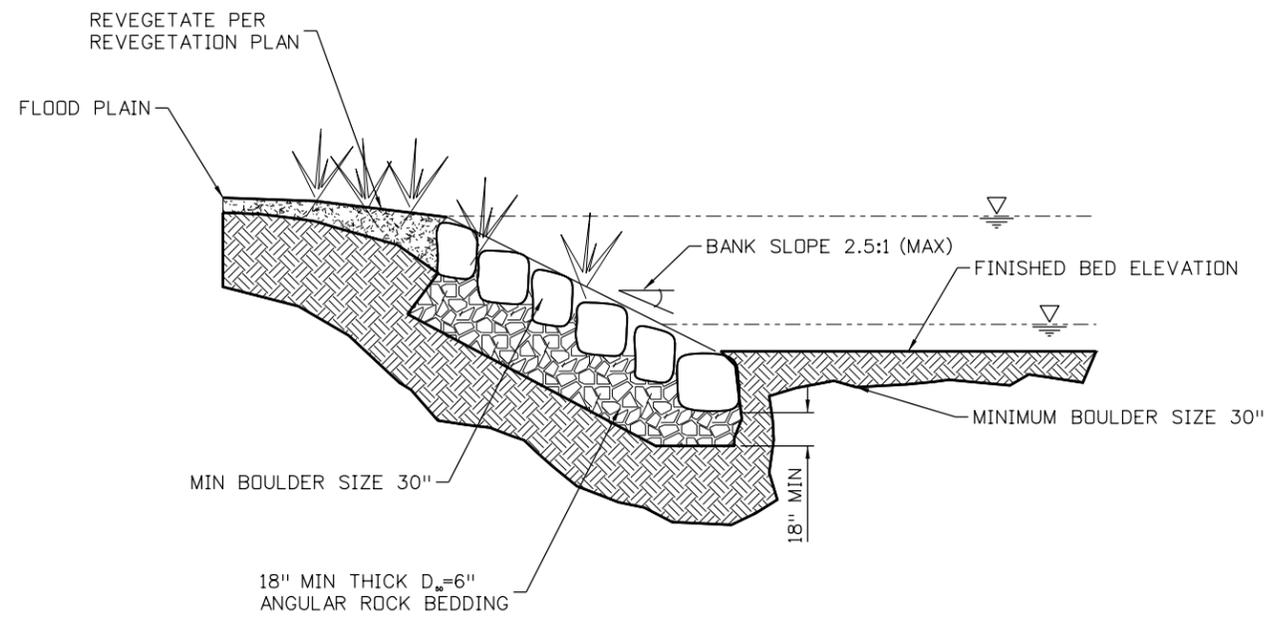
NOTES:

1. FLOW DIRECTION MAY VARY. SEE DRAINAGE PLANS.
2. DIMENSIONS OF DITCH FEATURES ARE LOCATION SPECIFIC. SEE DRAINAGE PLANS AND TABLES.

PIPE INLET/OUTLET WITH RIPRAP

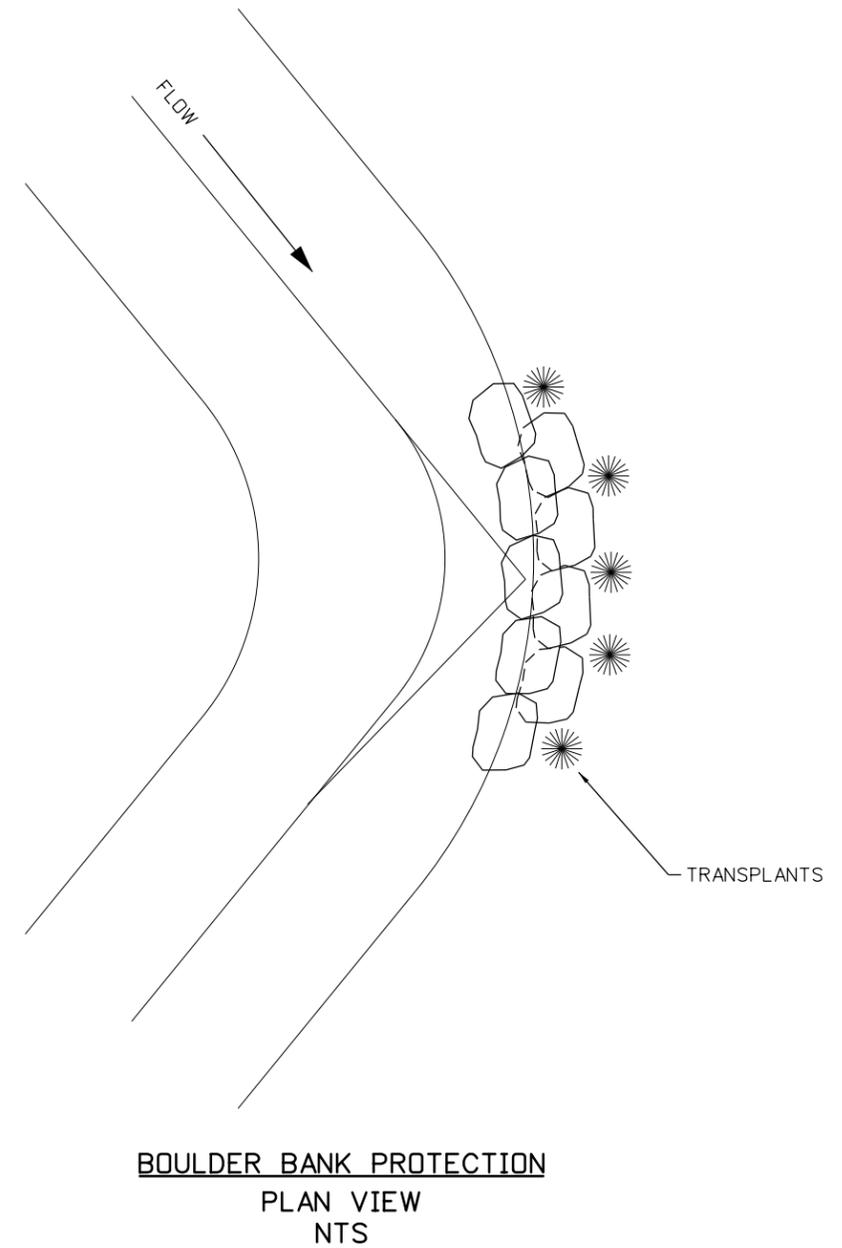
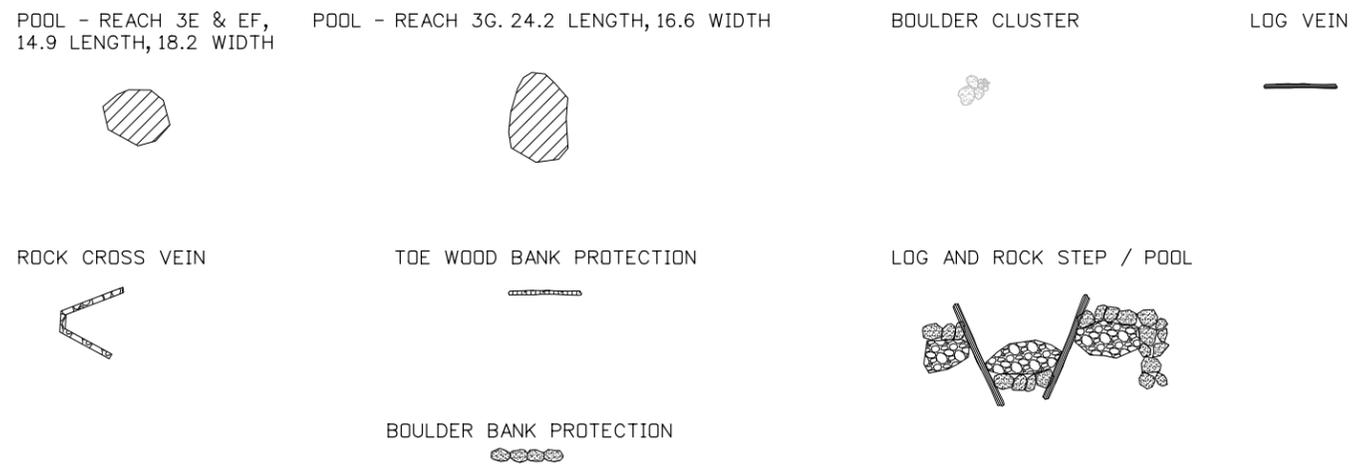
60% SET	 <small>CALL UTILITY NOTIFICATION CENTER OF COLORADO CALL 2-BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES</small>	NO.	DATE	REVISION DESCRIPTION:	 BOULDER COUNTY TRANSPORTATION DEPARTMENT ENGINEERING DIVISION Michael Baker INTERNATIONAL	DESIGNED:	CAD:	CHECKED:	DATE:	GOLD RUN ROAD DRAINAGE DETAILS (SHEET 2 OF 2)
						JRS	EMR	JRS	02/05/16	

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STACKED BOULDER BANK PROTECTION W/ PLANTINGS INCORPORATED

LEGEND ITEMS

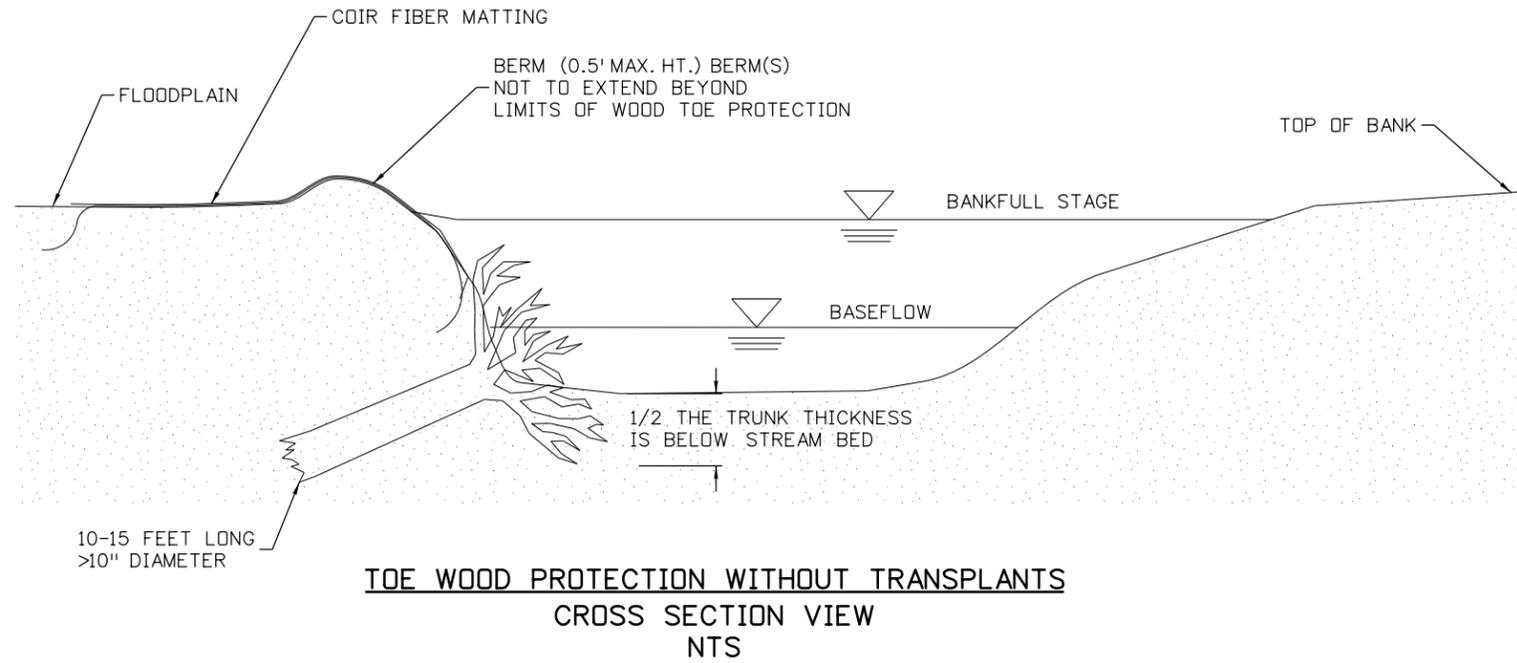


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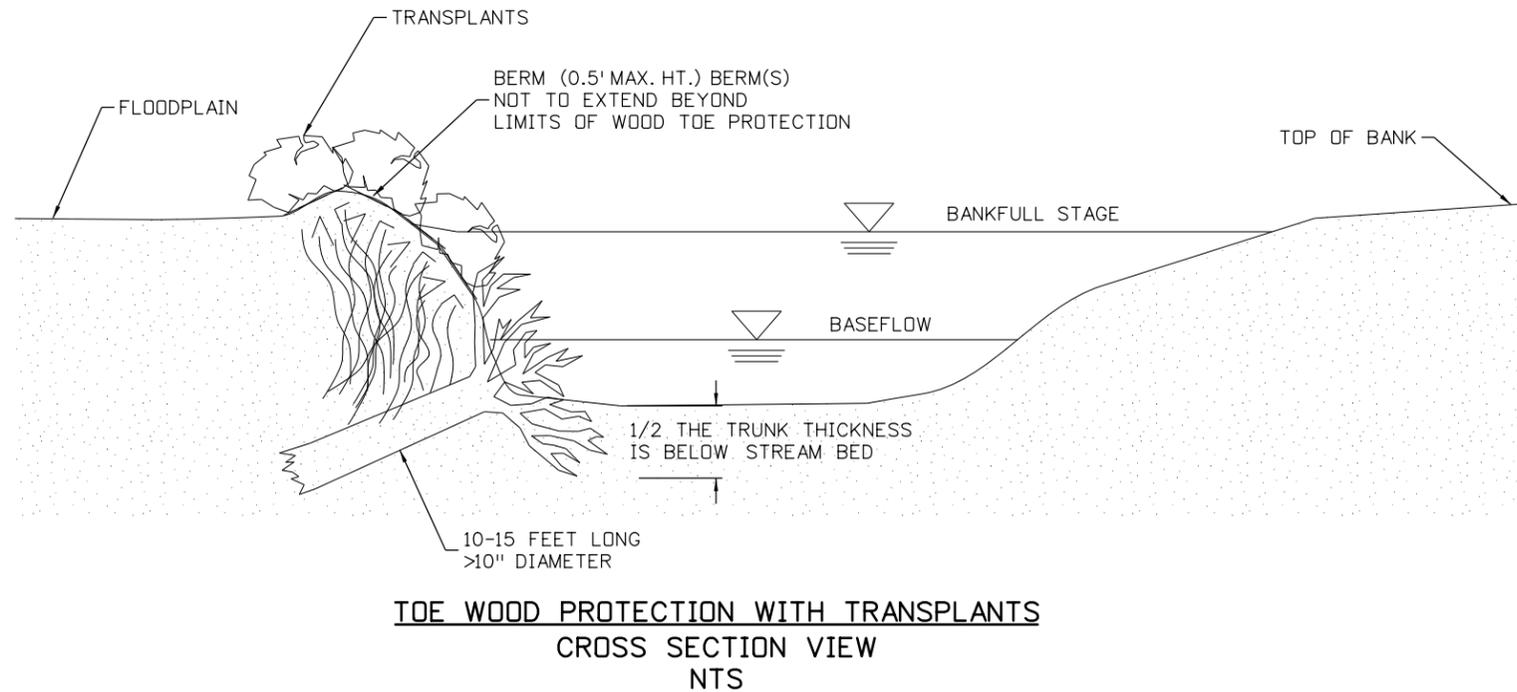
1. TRENCHING METHOD:
IF THE CLASS 2 CANNOT BE DRIVEN INTO THE BANK OR THE BANK NEEDS TO BE RECONSTRUCTED, THE TRENCHING METHOD SHOULD BE USED. THIS METHOD REQUIRES THAT A TRENCH BE EXCAVATED FOR THE CLASS 2. ONE-THIRD OF THE CLASS 2 SHOULD REMAIN BELOW NORMAL BASE FLOW CONDITIONS.
2. DRIVEN METHOD:
CLASS 2 SHOULD BE LAIN IN THE STREAMBED AND THEN DRIVEN INTO THE BANK WITH A HORIZONTAL AND DOWNWARD FORCE.

30% SET	 <small>CALL UTILITY NOTIFICATION CENTER OF COLORADO CALL 2-BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES</small>	NO.	DATE	REVISION DESCRIPTION:	 BOULDER COUNTY TRANSPORTATION DEPARTMENT ENGINEERING DIVISION Michael Baker INTERNATIONAL	DESIGNED:	CAD:	CHECKED:	DATE:	GOLD RUN ROAD HABITAT RESTORATION DTLs (SHEET 1 OF 6) <small>PROJECT NO: 4043.SEPT12C38 SHEET NO: 110</small>
						LB JRS KPD 11/10/15				

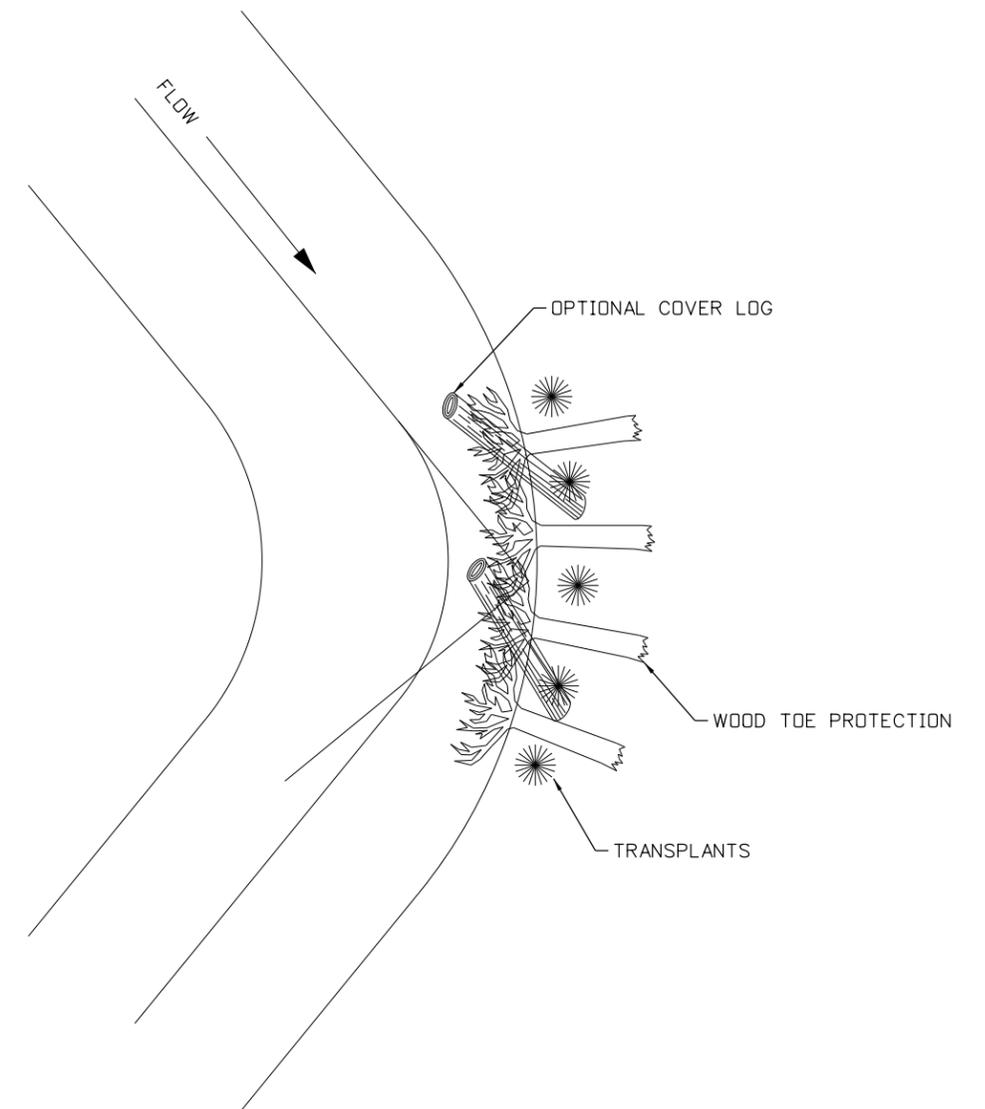
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TOE WOOD PROTECTION WITHOUT TRANSPLANTS
CROSS SECTION VIEW
NTS



TOE WOOD PROTECTION WITH TRANSPLANTS
CROSS SECTION VIEW
NTS

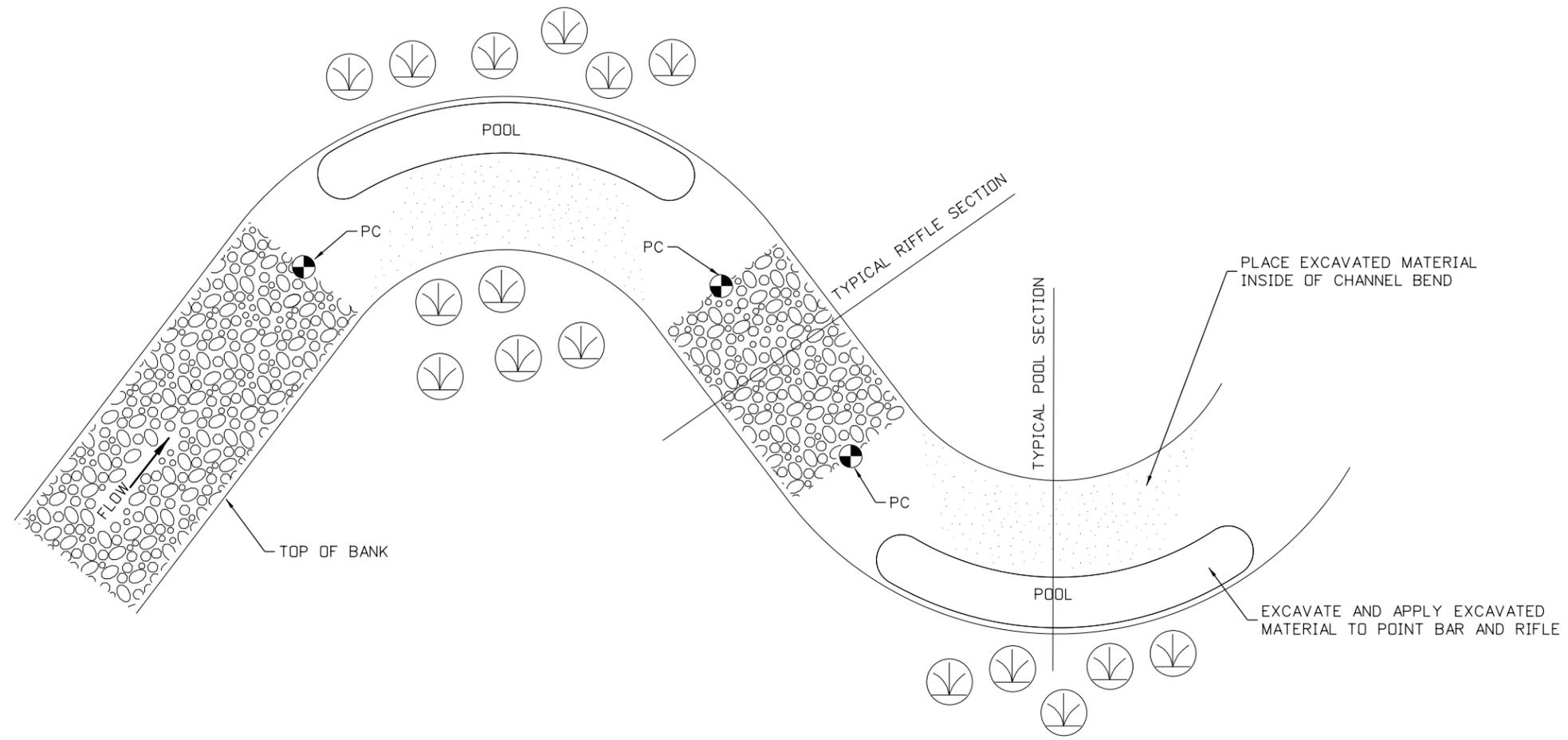


TOE WOOD PROTECTION
PLAN VIEW
NTS

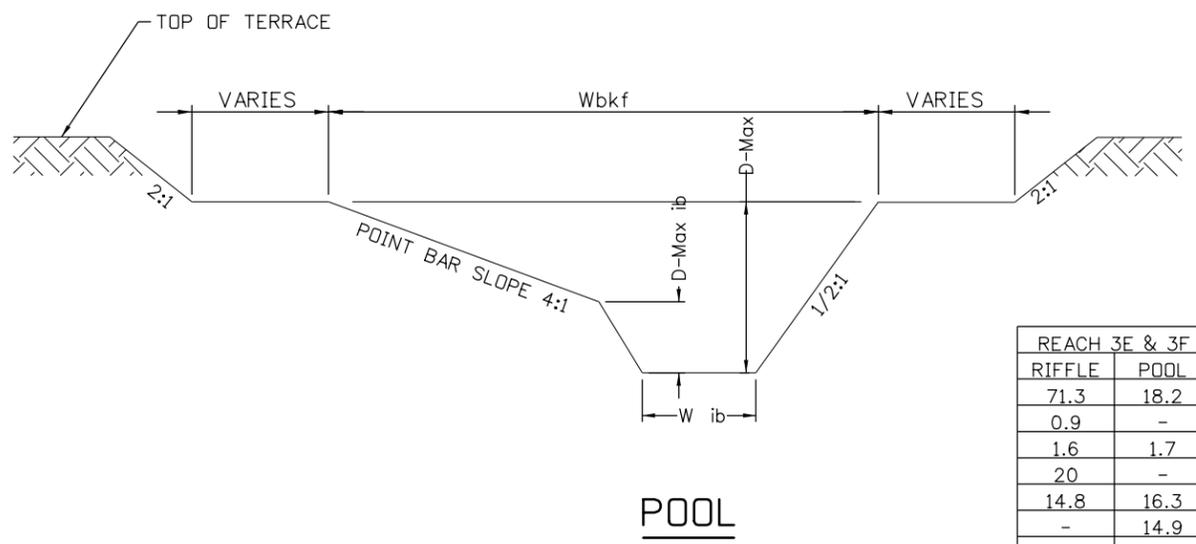
NOTES:

- TRENCHING METHOD:**
IF THE ROOT WAD CANNOT BE DRIVEN INTO THE BANK OR THE BANK NEEDS TO BE RECONSTRUCTED, THE TRENCHING METHOD SHOULD BE USED. THIS METHOD REQUIRES THAT A TRENCH BE EXCAVATED FOR THE LOG PORTION OF THE ROOT WAD. IN THIS CASE, A FOOTER LOG SHOULD BE INSTALLED UNDERNEATH THE ROOT WAD IN A TRENCH EXCAVATED PARALLEL TO THE BANK AND WELL BELOW THE STREAMBED. ONE-THIRD OF THE ROOT WAD SHOULD REMAIN BELOW NORMAL BASE FLOW CONDITIONS.
- DRIVE POINT METHOD:**
SHARPEN THE END OF THE LOG WITH A CHAINSAW BEFORE "DRIVING" IT INTO THE BANK. ORIENT ROOT WADS UPSTREAM SO THAT THE STREAM FLOW MEETS THE ROOT WAD AT A 90-DEGREE ANGLE, DEFLECTING THE WATER AWAY FROM THE BANK. A TRANSPLANT SHOULD BE PLACED ON THE DOWNSTREAM SIDE OF THE ROOT WAD IF A BACK EDDY IS FORMED BY THE ROOT WAD.

30% SET	 CALL UTILITY NOTIFICATION CENTER OF COLORADO CALL 2-BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES	NO.	DATE	REVISION DESCRIPTION:	 BOULDER COUNTY TRANSPORTATION DEPARTMENT ENGINEERING DIVISION Michael Baker INTERNATIONAL	DESIGNED:	CAD:	CHECKED:	DATE:	GOLD RUN ROAD HABITAT RESTORATION DTLs (SHEET 2 OF 6) PROJECT NO: 4043.SEPT12C38 SHEET NO: 111
						LB	JRS	KPD	11/10/15	



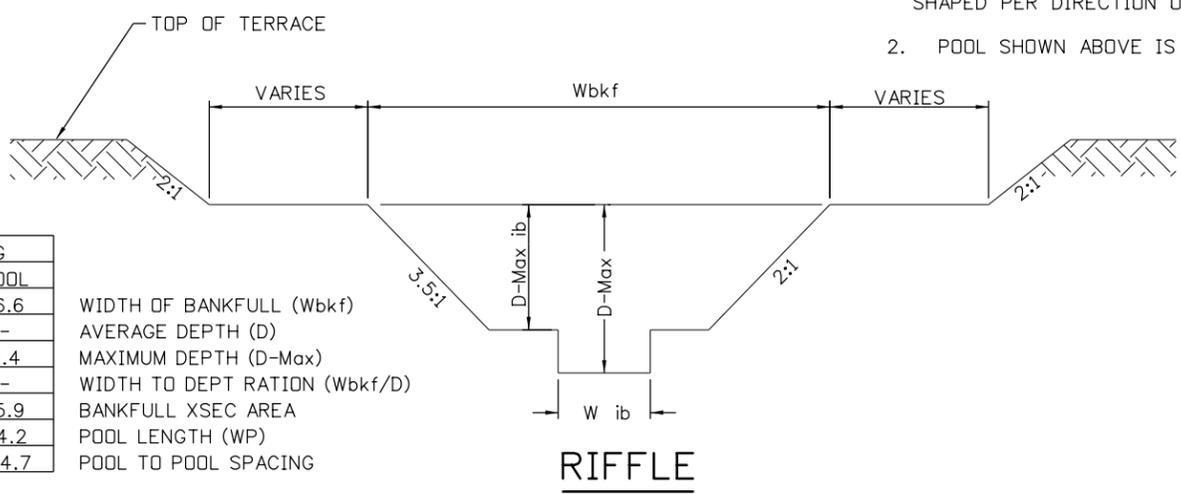
CONSTRUCTED POOL AND POINT BAR



POOL

REACH 3E & 3F		REACH 3G	
RIFFLE	POOL	RIFFLE	POOL
71.3	18.2	19.4	16.6
0.9	-	1.1	-
1.6	1.7	1.6	2.4
20	-	16.9	-
14.8	16.3	14.4	15.9
-	14.9	-	24.2
-	61.8	-	124.7

WIDTH OF BANKFULL (Wbkf)
 AVERAGE DEPTH (D)
 MAXIMUM DEPTH (D-Max)
 WIDTH TO DEPT RATION (Wbkf/D)
 BANKFULL XSEC AREA
 POOL LENGTH (WP)
 POOL TO POOL SPACING



RIFFLE

NOTES:

1. DURING CONSTRUCTION CORNERS OF DESIGN CHANNEL WILL BE ROUNDED AND THALWEG WILL BE SHAPED PER DIRECTION OF THE ENGINEER.
2. POOL SHOWN ABOVE IS RIGHT BANK POOL ONLY.

30% SET

CALL UTILITY NOTIFICATION CENTER OF COLORADO
 CALL 2-BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES

NO.	DATE	REVISION DESCRIPTION:



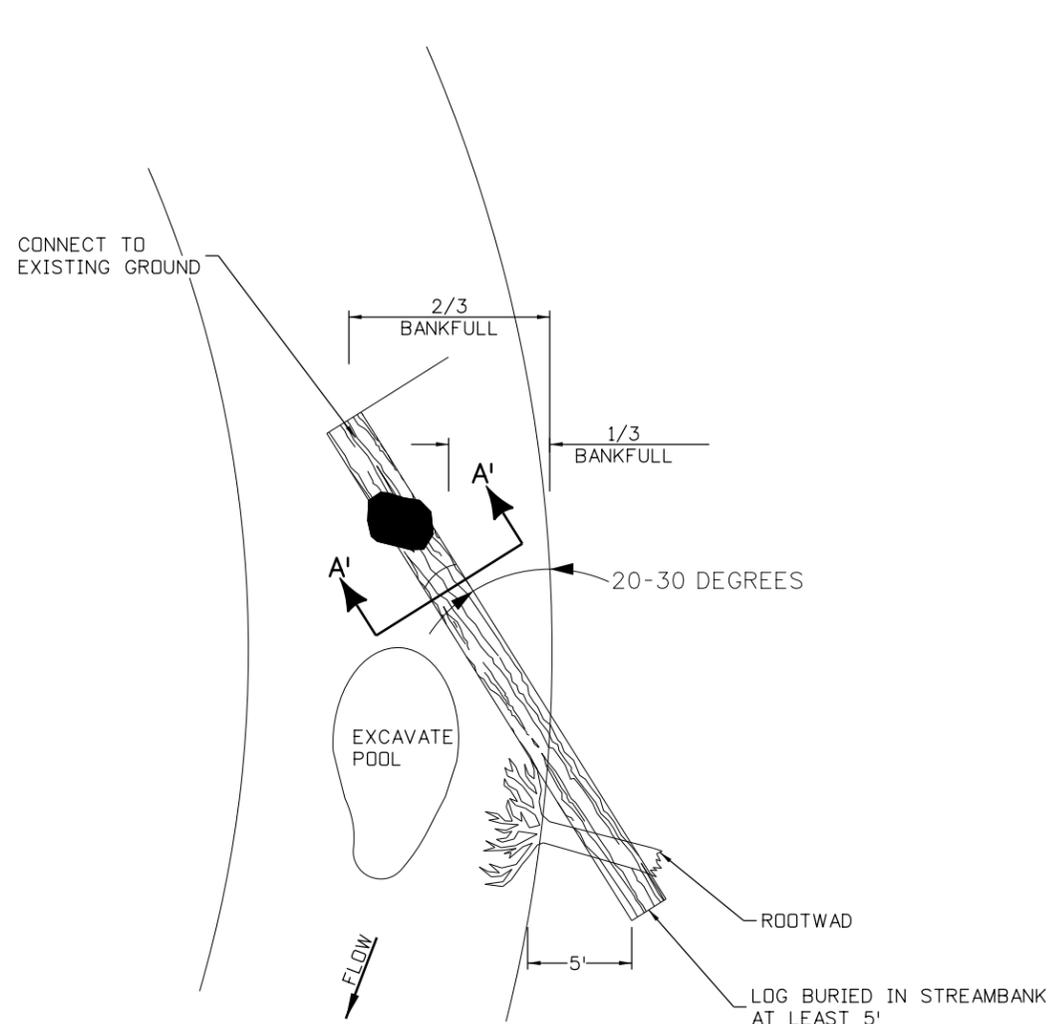
BOULDER COUNTY TRANSPORTATION DEPARTMENT
ENGINEERING DIVISION
Michael Baker INTERNATIONAL

DESIGNED: LB	CAD: EMR	CHECKED: KPD	DATE: 11/10/15
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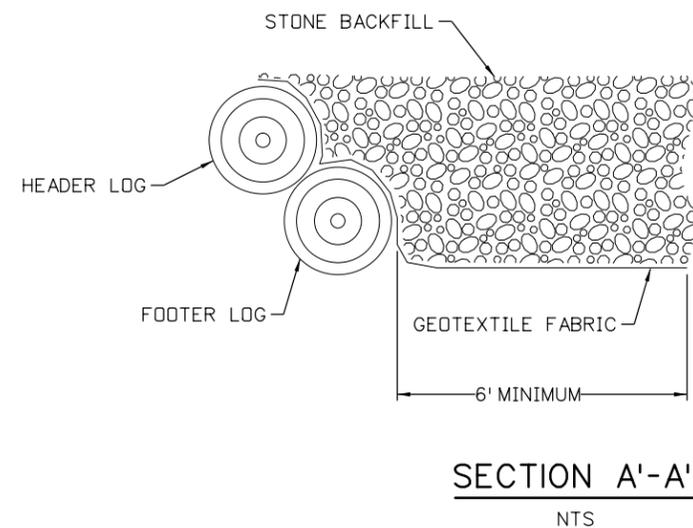
GOLD RUN ROAD
HABITAT RESTORATION DTLs
(SHEET 3 OF 6)
 PROJECT NO: 4011.SEPT12C38 SHEET NO: 112

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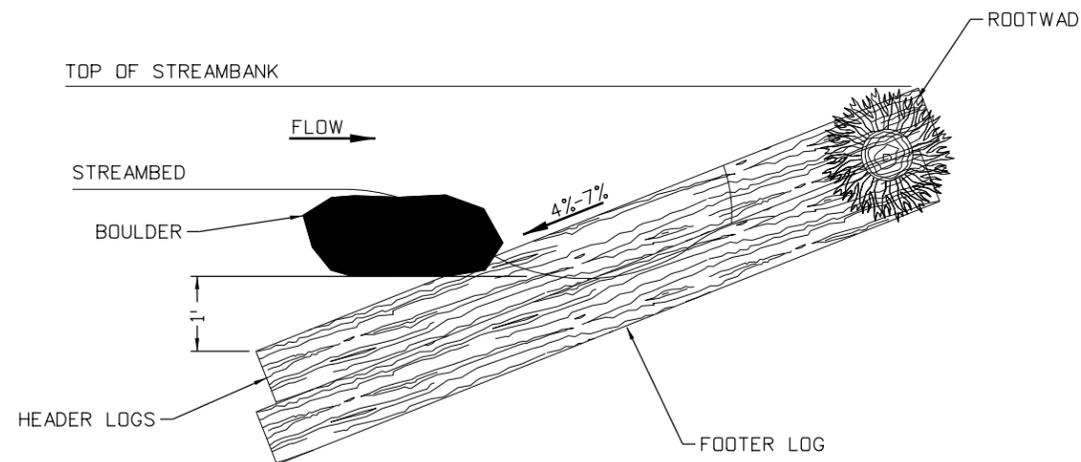
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PLAN VIEW
NTS



SECTION A'-A'
NTS



PROFILE VIEW
NTS

NOTES:

1. LOGS SHOULD BE AT LEAST 10" IN DIAMETER, RELATIVELY STRAIGHT, HARDWOOD, AND RECENTLY HARVESTED.
2. BOULDERS MUST BE OF SUFFICIENT SIZE TO ANCHOR LOGS
3. SOIL SHOULD BE COMPACTED WELL AROUND BURIED PORTIONS OF LOGS.
4. ROOTWADS SHOULD BE PLACED BENEATH THE HEADER LOG AND PLACED SO THAT IT LOCKS THE HEADER LOG INTO THE BANK. SEE ROOTWAD DETAIL.
5. BOULDER SHOULD BE PLACED ON TOP OF HEADER LOG FOR ANCHORING.
6. GEOTEXTILE FABRIC SHOULD BE NAILED TO THE LOG BELOW THE BACKFILL.
7. TRANSPLANTS CAN BE USED INSTEAD OF ROOTWADS, PER DIRECTION OF THE ENGINEER.

LOG VANE

30% SET



CALL UTILITY NOTIFICATION CENTER OF COLORADO
CALL 2-BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES

REVISIONS:	NO.	DATE	REVISION DESCRIPTION:

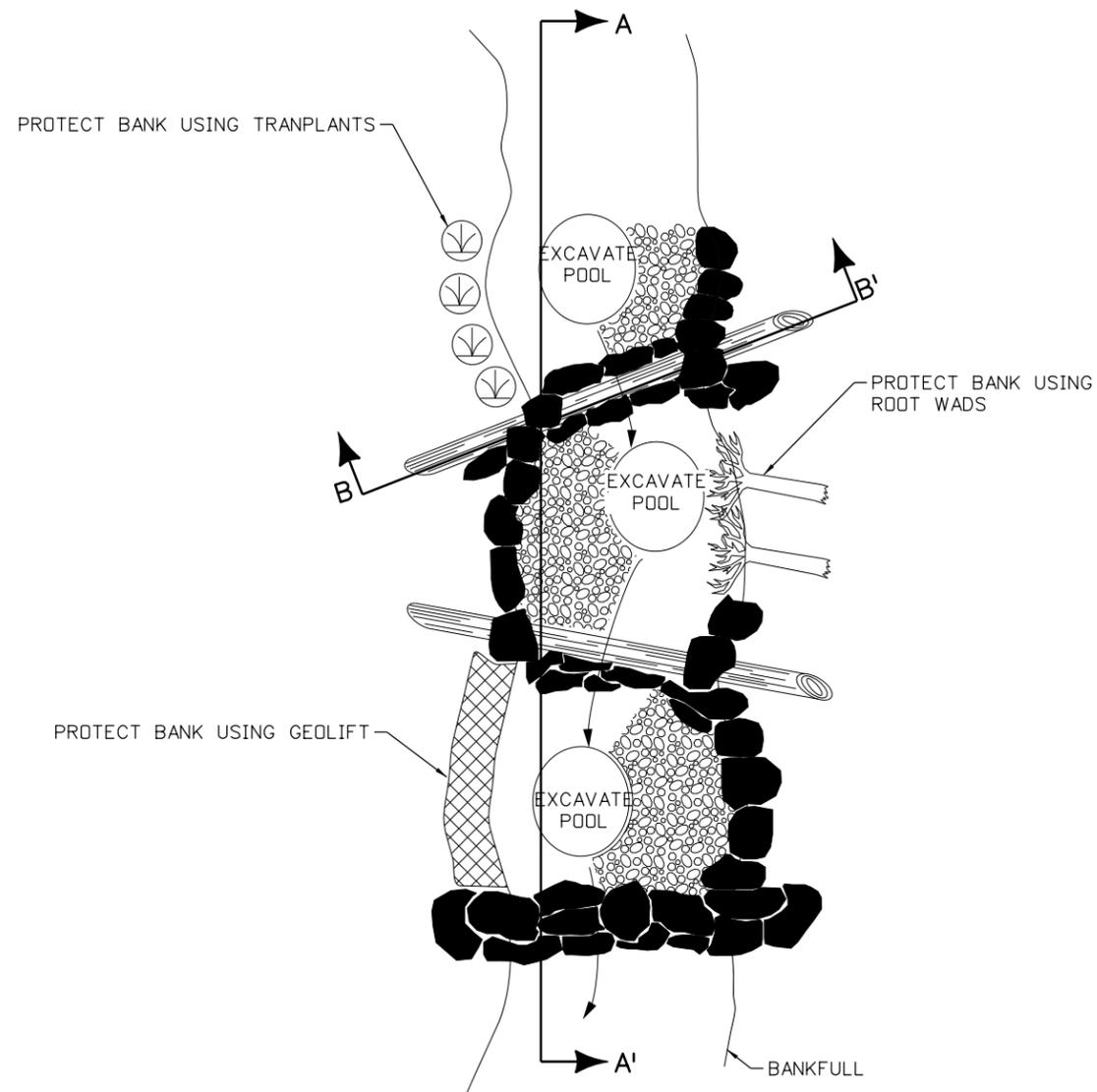


BOULDER COUNTY TRANSPORTATION DEPARTMENT
ENGINEERING DIVISION
Michael Baker INTERNATIONAL

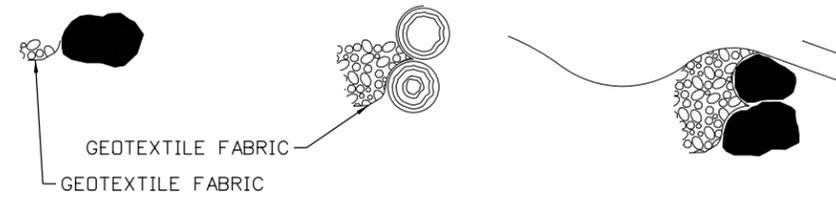
DESIGNED:	CAD:	CHECKED:	DATE:
LB	EMR	KPD	11/10/15

GOLD RUN ROAD
HABITAT RESTORATION DTLs
(SHEET 4 OF 6)
PROJECT NO: 4011.SEPT12C38 SHEET NO: 113

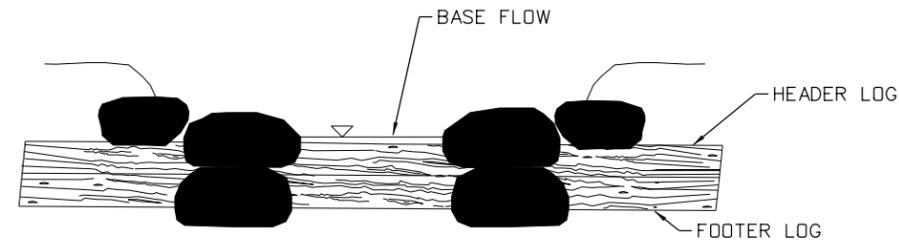
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PLAN VIEW



SECTION A-A'



SECTION B-B'

LOG AND ROCK STEP / POOL

NOTES:

1. LOGS SHOULD BE ATLEAST 10" IN DIAMETER, REALITVELY STRAIGHT, AND RECENTLY HARVESTED AND EXTENDING INTO THE BANK 5' ON EACH SIDE.
2. SOILD SHOULD BE COMPACTED WELL AROUND BURIED PORTIONS OF LOG.
3. GEOTEXTILE FABRIC SHOULD BE NAILED TO THE LOG BELOW THE BAKFILL.
4. BOULDERS SHOULD BE 3' X 2' X 2' AND PLACED ON TOP OF HEADER LOG FOR ANCHORING.

30% SET

CALL UTILITY NOTIFICATION CENTER OF COLORADO
811
 CALL 2-BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES

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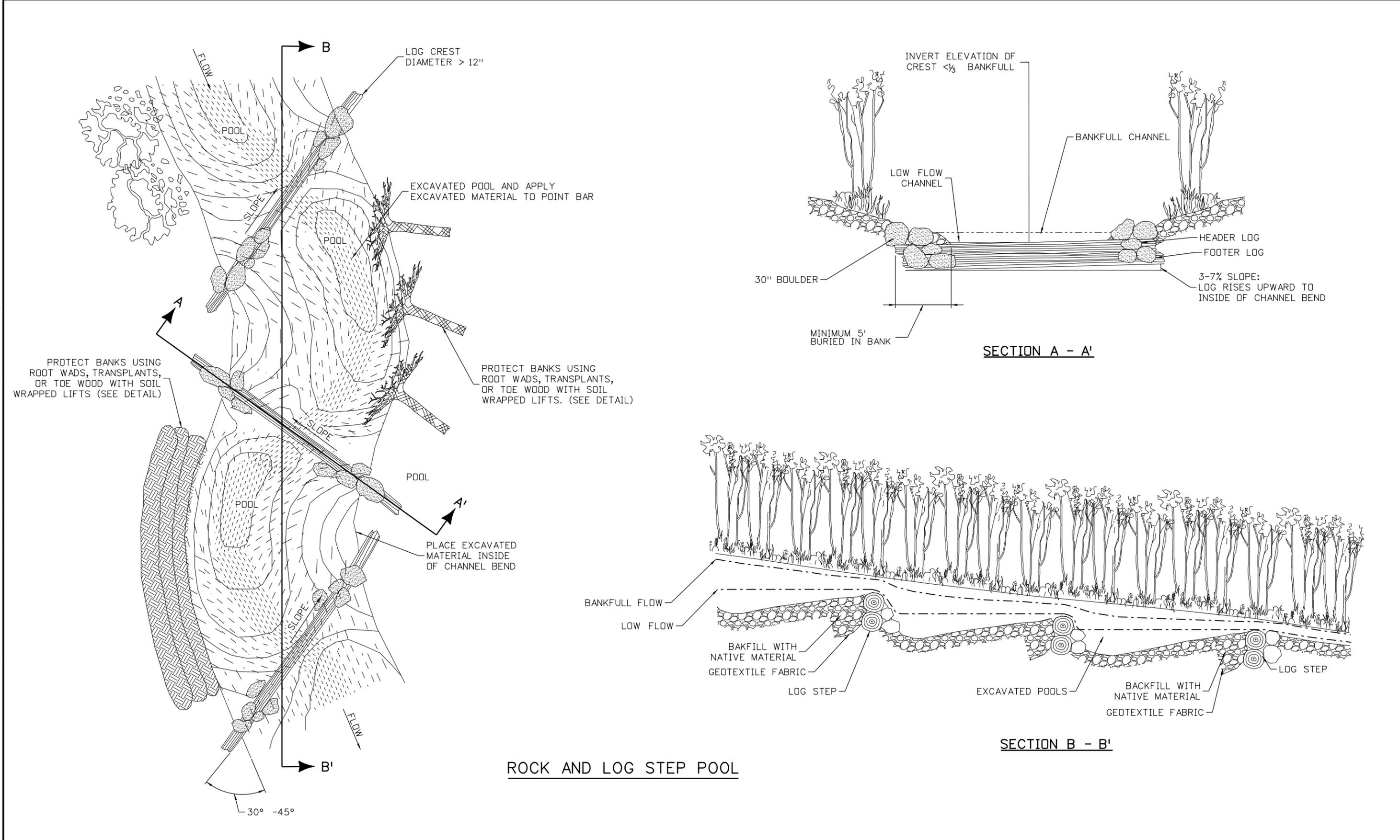


**BOULDER COUNTY TRANSPORTATION DEPARTMENT
 ENGINEERING DIVISION**
Michael Baker INTERNATIONAL

DESIGNED:	CAD:	CHECKED:	DATE:
LB	EMR	KPD	11/10/15

GOLD RUN ROAD
HABITAT RESTORATION DTLs
(SHEET 5 OF 6)
 PROJECT NO: 4011.SEPT12C38 SHEET NO: 114

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ROCK AND LOG STEP POOL

60% SET

CALL UTILITY NOTIFICATION CENTER OF COLORADO
811
 CALL 2-BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES

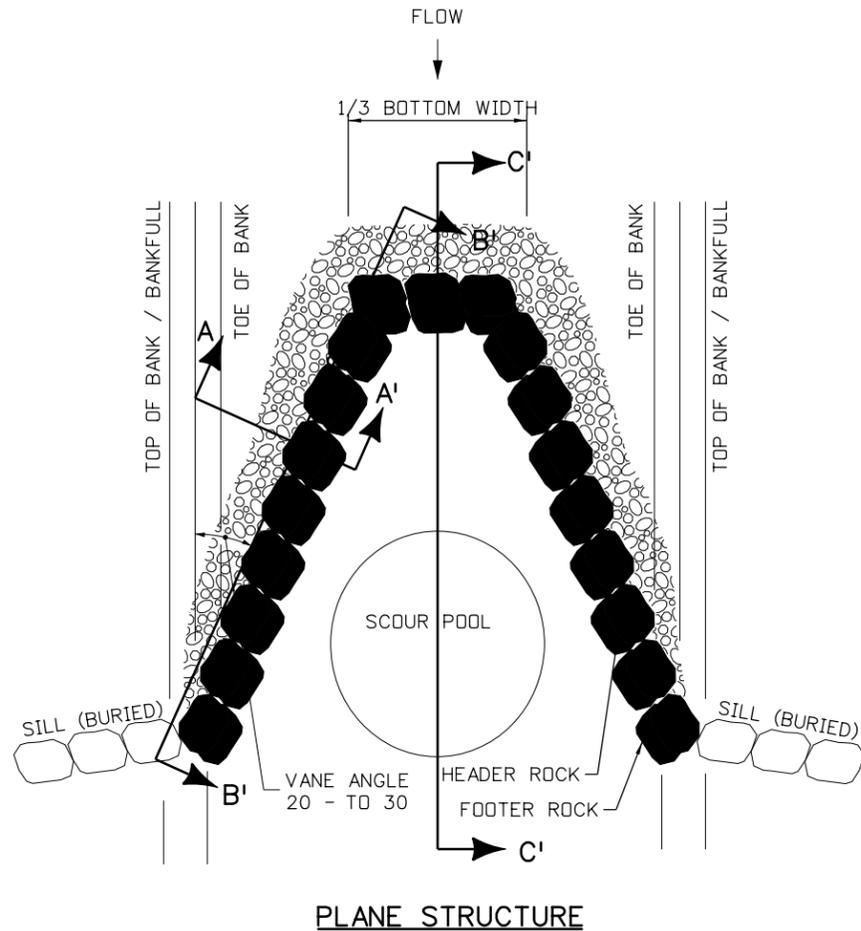
REVISIONS:	NO.	DATE	REVISION DESCRIPTION:

BOULDER COUNTY TRANSPORTATION DEPARTMENT
ENGINEERING DIVISION
Michael Baker INTERNATIONAL

GOLD RUN ROAD HABITAT RESTORATION DTLs (SHEET 6 OF 11)
 PROJECT NO: 4011.SEPT12C38 SHEET NO: 115

DESIGNED:	CAD:	CHECKED:	DATE:
LB	EMR	KPD	02/05/16

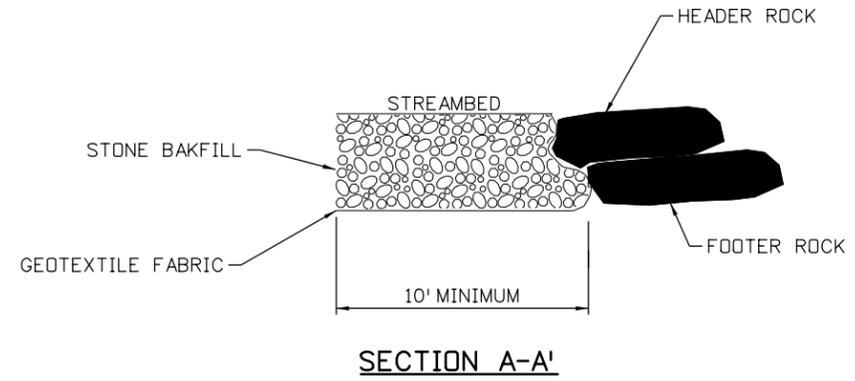
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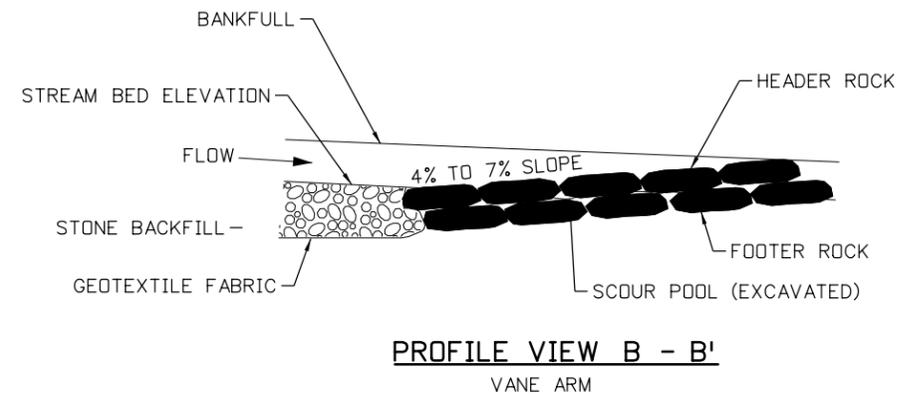
PLANE STRUCTURE

NOTES FOR ALL VANE STRUCTURES:

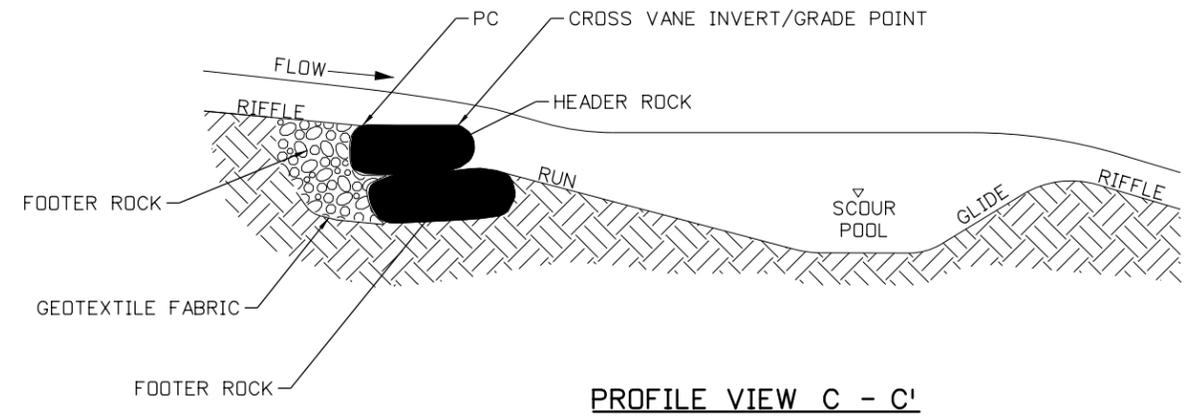
1. INSTALL BEGINNING AT THE TOP OF THE HEADER ROCKS AND EXTEND DOWNWARD TO THE DEPTH OF THE BOTTOM FOOTER ROCK, AND THEN UPSTREAM TO A MINIMUM OF TEN FEET.
2. DIG A TRENCH BELOW THE BED FOR FOOTER ROCKS AND PLACE FILL ON UPSTREAM OF VANE ARM, BETWEEN THE ARM AND STREAMBANK.
3. START AT BANK AND PLACE FOOTER ROCKS FIRST AND THEN HEADER (TOP) ROCK.
4. CONTINUE WITH STRUCTURE, FOLLOWING ANGLE AND SLOPE SPECIFICATIONS.
5. AN EXTRA ROCK CAN BE PLACED IN SCOUR POOL FOR HABIT AT IMPROVEMNT.
6. USE HAND PLACED STONE TO FILL GAPS ON UPSTREAM SIDE HEADER AND FOOTER ROCKS
7. AFTER ALL STONE BACKFILL HAS BEEN PLACED, FILL IN THE UPSTREAM SIDE OF THE STRUCTURE WITH ON-SITE ALLUVIUM TO THE ELEVATION OF THE TOP OF THE HEADER ROCK.



SECTION A-A'



PROFILE VIEW B - B'

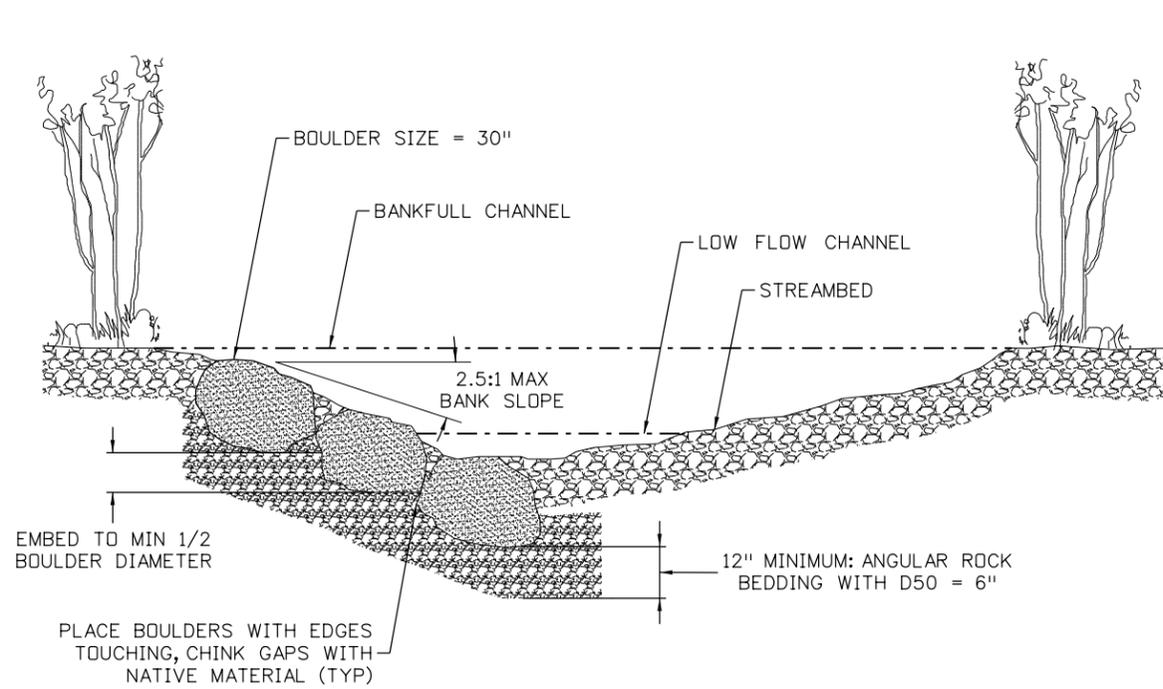


PROFILE VIEW C - C'

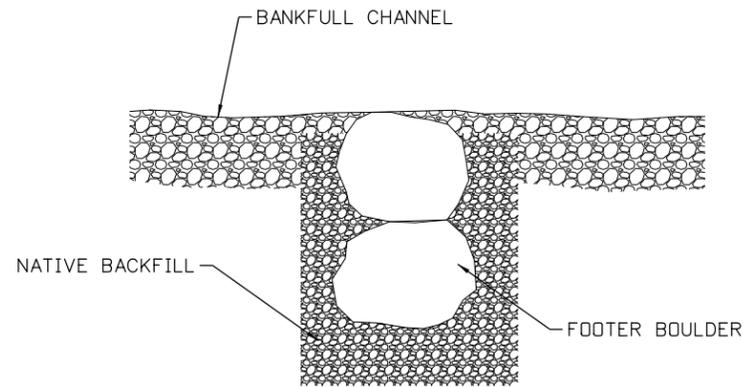
ROCK CROSS VANE

30% SET	 <small>CALL UTILITY NOTIFICATION CENTER OF COLORADO CALL 2-BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES</small>	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="font-size: 8px;">REVISIONS:</th> <th style="font-size: 8px;">NO.</th> <th style="font-size: 8px;">DATE</th> <th style="font-size: 8px;">REVISION DESCRIPTION:</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>	REVISIONS:	NO.	DATE	REVISION DESCRIPTION:													 BOULDER COUNTY TRANSPORTATION DEPARTMENT ENGINEERING DIVISION Michael Baker INTERNATIONAL	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="font-size: 8px;">DESIGNED:</td> <td style="font-size: 8px;">CAD:</td> <td style="font-size: 8px;">CHECKED:</td> <td style="font-size: 8px;">DATE:</td> </tr> <tr> <td style="text-align: center;">LB</td> <td style="text-align: center;">EMR</td> <td style="text-align: center;">KPD</td> <td style="text-align: center;">11/10/15</td> </tr> </table>	DESIGNED:	CAD:	CHECKED:	DATE:	LB	EMR	KPD	11/10/15	GOLD RUN ROAD HABITAT RESTORATION DTLs (SHEET 6 OF 6) <small>PROJECT NO: 4011.SEPT12C38 SHEET NO:116</small>
REVISIONS:	NO.	DATE	REVISION DESCRIPTION:																										
DESIGNED:	CAD:	CHECKED:	DATE:																										
LB	EMR	KPD	11/10/15																										

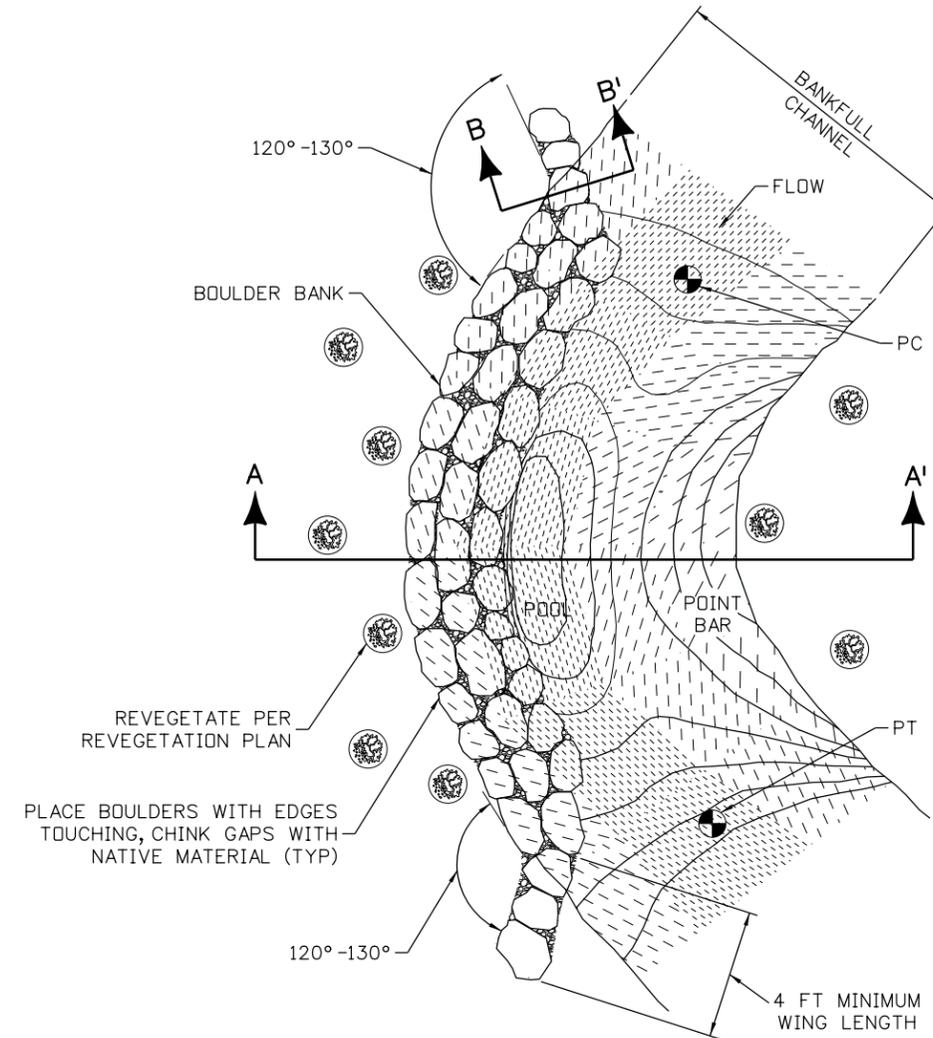
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CROSS SECTION A - A'



CROSS SECTION B - B'



PLAN VIEW

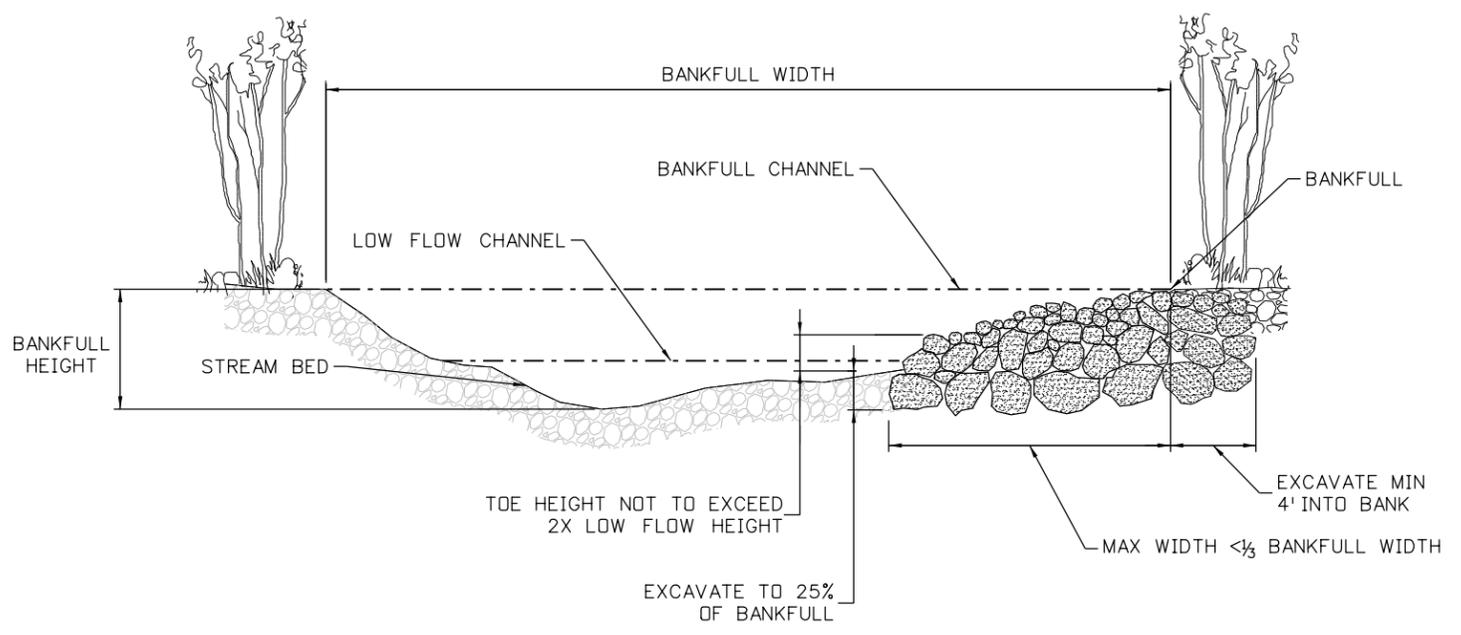
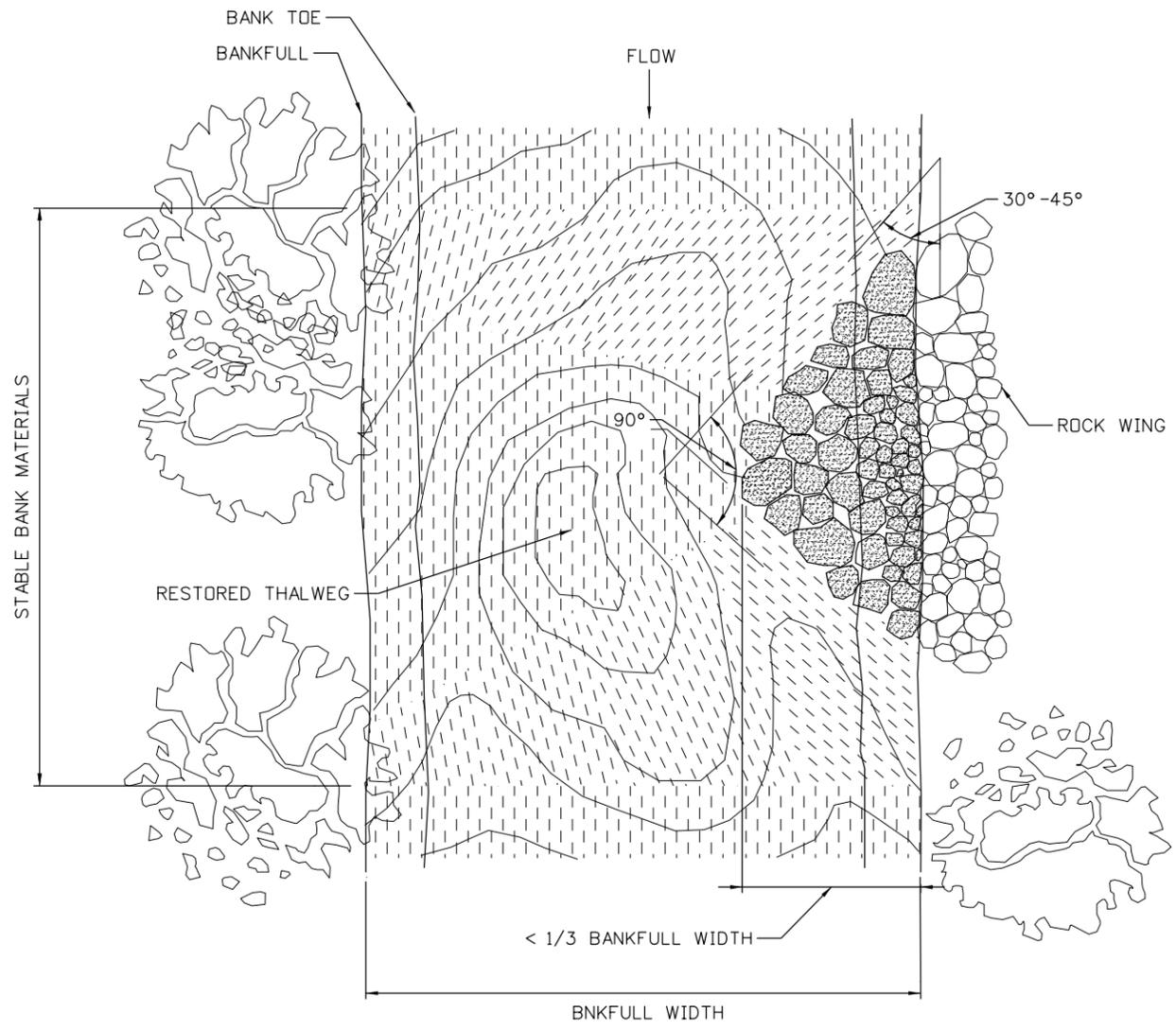
NOTES:

1. TRENCHING METHOD:
IF THE CLASS 2 CANNOT BE DRIVEN INTO THE BANK OR THE BANK NEEDS TO BE RECONSTRUCTED, THE TRENCHING METHOD SHOULD BE USED. THIS METHOD REQUIRES THAT A TRENCH BE EXCAVATED FOR THE CLASS 2. ONE-THIRD OF THE CLASS 2 SHOULD REMAIN BELOW NORMAL BASE FLOW CONDITIONS.
2. DRIVEN METHOD:
CLASS 2 SHOULD BE LAID IN THE STREAMBED AND THEN DRIVEN INTO THE BANK WITH A HORIZONTAL AND DOWNWARD FORCE.

STACKED BOULDER BANK PROTECTION W/ PLANTINGS INCORPORATED

60% SET	 <small>CALL UTILITY NOTIFICATION CENTER OF COLORADO CALL 2-BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES</small>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="font-size: 8px;">REVISIONS:</th> <th style="font-size: 8px;">NO.</th> <th style="font-size: 8px;">DATE</th> <th style="font-size: 8px;">REVISION DESCRIPTION:</th> </tr> <tr> <td style="height: 20px;"> </td> <td> </td> <td> </td> <td> </td> </tr> </table>	REVISIONS:	NO.	DATE	REVISION DESCRIPTION:					 BOULDER COUNTY TRANSPORTATION DEPARTMENT ENGINEERING DIVISION Michael Baker INTERNATIONAL	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="font-size: 8px;">DESIGNED:</td> <td style="font-size: 8px;">CAD:</td> <td style="font-size: 8px;">CHECKED:</td> <td style="font-size: 8px;">DATE:</td> </tr> <tr> <td style="text-align: center;">LB</td> <td style="text-align: center;">EMR</td> <td style="text-align: center;">KPD</td> <td style="text-align: center;">02/05/16</td> </tr> </table>	DESIGNED:	CAD:	CHECKED:	DATE:	LB	EMR	KPD	02/05/16	GOLD RUN ROAD HABITAT RESTORATION DTLs (SHEET 8 OF 11) <small>PROJECT NO: 4043.SEPT12C38 SHEET NO:117</small>
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LB	EMR	KPD	02/05/16																		

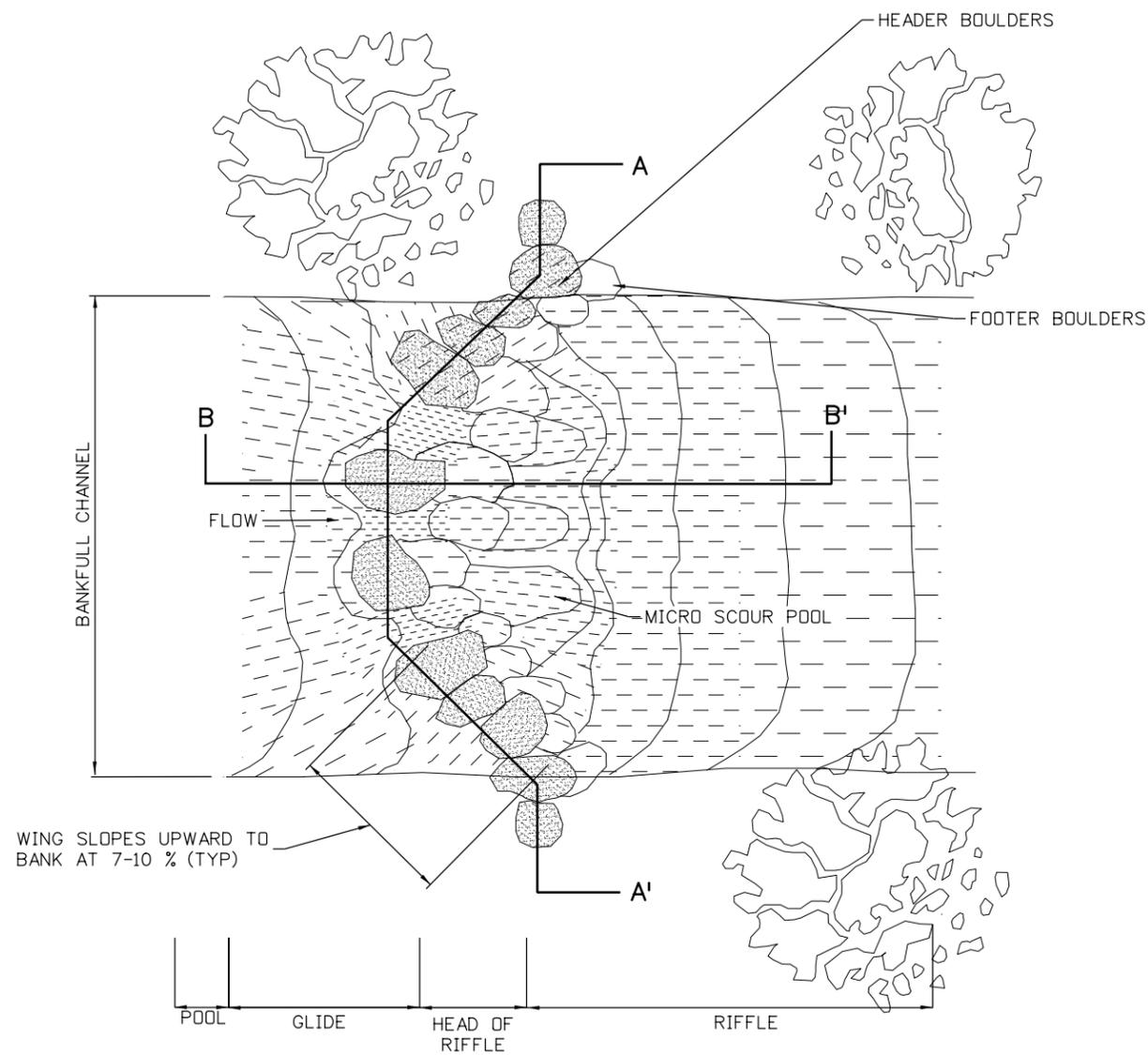
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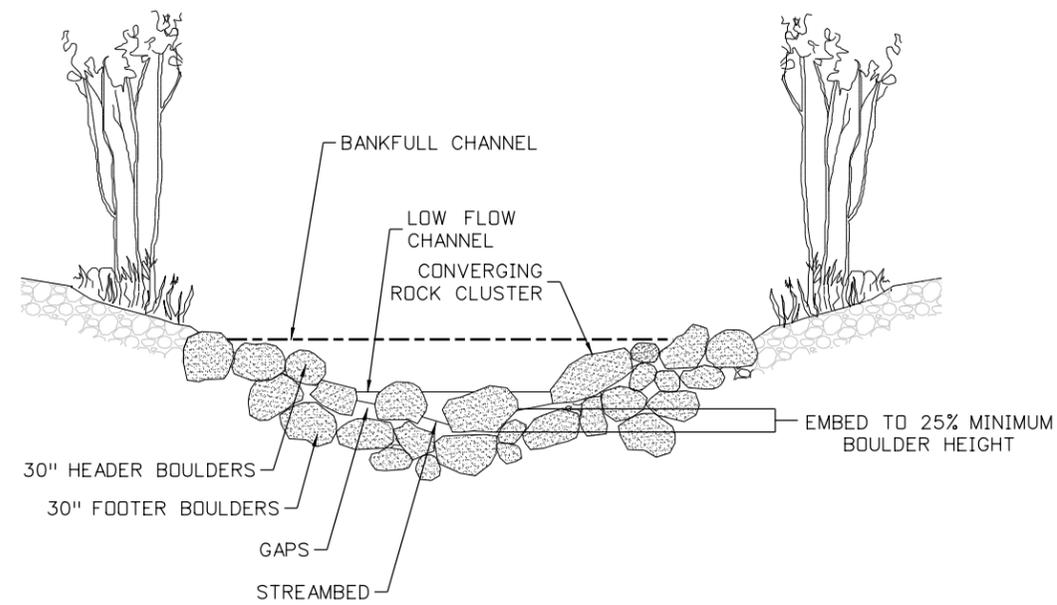
ROCK WING

60% SET	<p>CALL UTILITY NOTIFICATION CENTER OF COLORADO CALL 2-BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES</p>	REVISIONS:	NO.	DATE	REVISION DESCRIPTION:	<p>BOULDER COUNTY TRANSPORTATION DEPARTMENT ENGINEERING DIVISION</p>	<p>Michael Baker INTERNATIONAL</p>				<p>GOLD RUN ROAD HABITAT RESTORATION DTLs (SHEET 9 OF 11)</p>	
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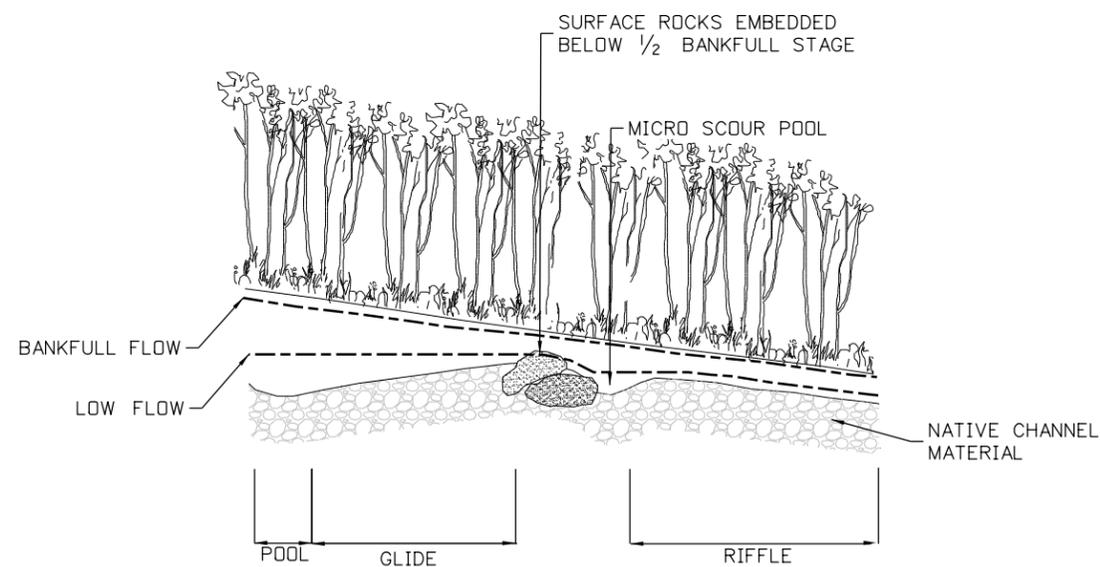
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PLAN VIEW



PROFILE A - A'



PROFILE B - B'

CONVERGING BOULDER CLUSTER

60% SET



CALL UTILITY NOTIFICATION CENTER OF COLORADO
CALL 2-BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES

REVISIONS:	NO.	DATE	REVISION DESCRIPTION:

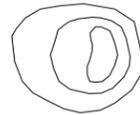


BOULDER COUNTY TRANSPORTATION DEPARTMENT
ENGINEERING DIVISION
Michael Baker INTERNATIONAL

DESIGNED:	CAD:	CHECKED:	DATE:
LB	EMR	KPD	02/05/16

GOLD RUN ROAD HABITAT RESTORATION DTLs (SHEET 10 OF 11)
PROJECT NO: 4043.SEPT12C38 SHEET NO: 119

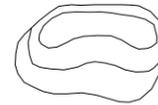
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POOL RIGHT BEND - REACH 3E & 3F
14.9 LENGTH, 18.2 WIDTH



POOL LEFT BEND - REACH 3E & 3 F
14.9 LENGTH, 18.2 WIDTH



POOL RIGHT BEND - REACH 3G
24.2 LENGTH, 16.6 WIDTH



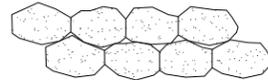
POOL LEFT BEND - REACH 3G
24.2 LENGTH, 16.6 WIDTH



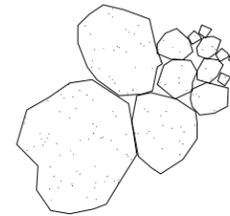
TOE WOOD
BANK PROTECTION



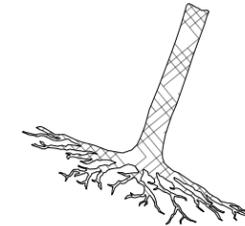
LOG VEIN



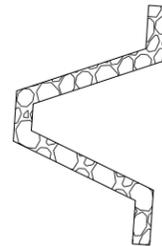
BOULDER BANK PROTECTION



BOULDER CLUSTER



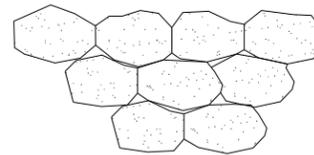
ROOT WAD BANK PROTECTION



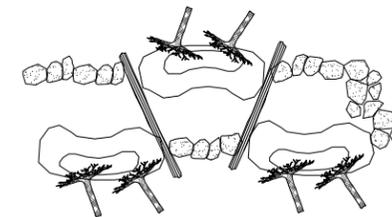
ROCK CROSS VANE



CONVERGING BOULDER CLUSTER



ROCK WING



LOG AND ROCK STEP/POOL

BOULDER BANK PROTECTION

60% SET	 <small>CALL UTILITY NOTIFICATION CENTER OF COLORADO CALL 2-BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES</small>	NO.	DATE	REVISION DESCRIPTION:	BOULDER COUNTY TRANSPORTATION DEPARTMENT ENGINEERING DIVISION 	DESIGNED:	CAD:	CHECKED:	DATE:	GOLD RUN ROAD HABITAT RESTORATION DTLs (SHEET 11 OF 11) <small>PROJECT NO: 4043.SEPT12C38 SHEET NO: 120</small>
						LB EMR KPD 02/05/16				