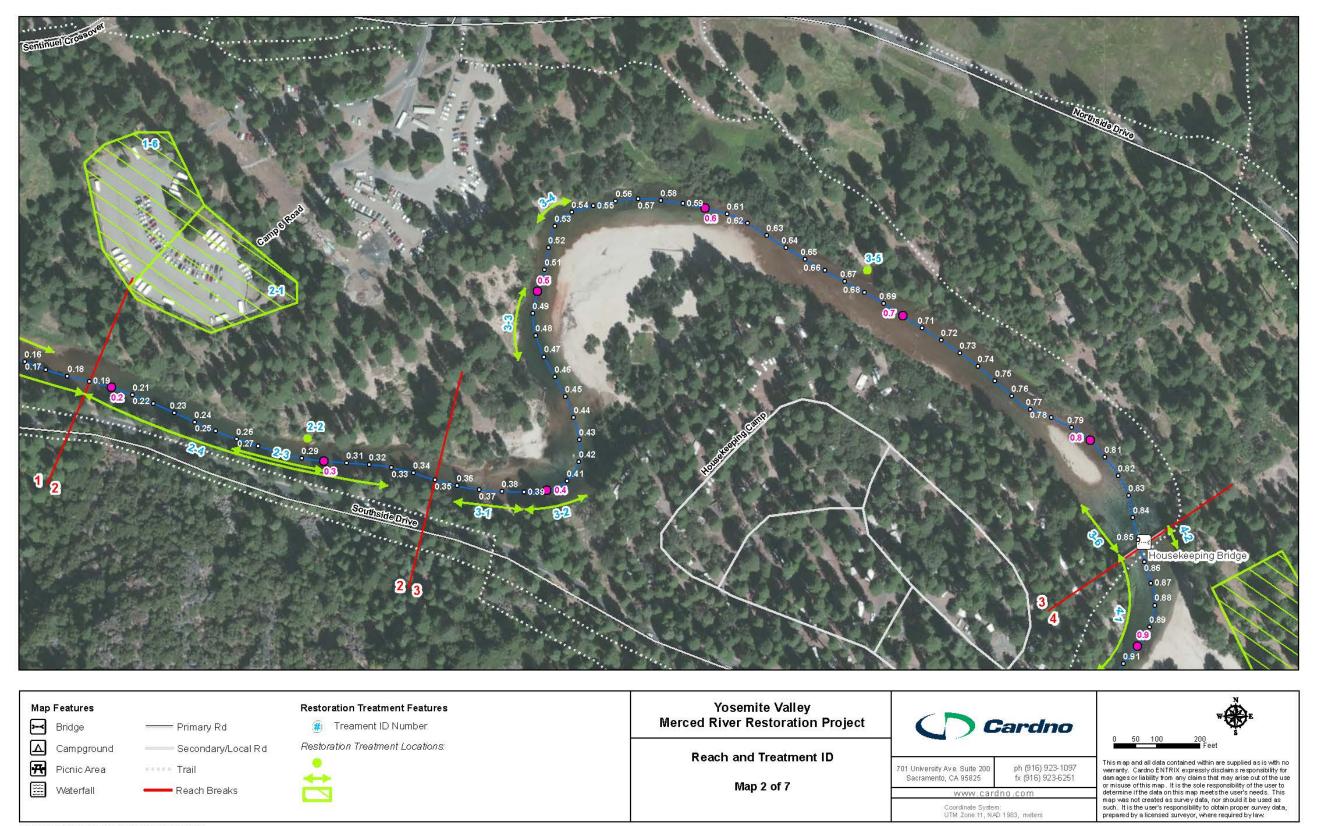


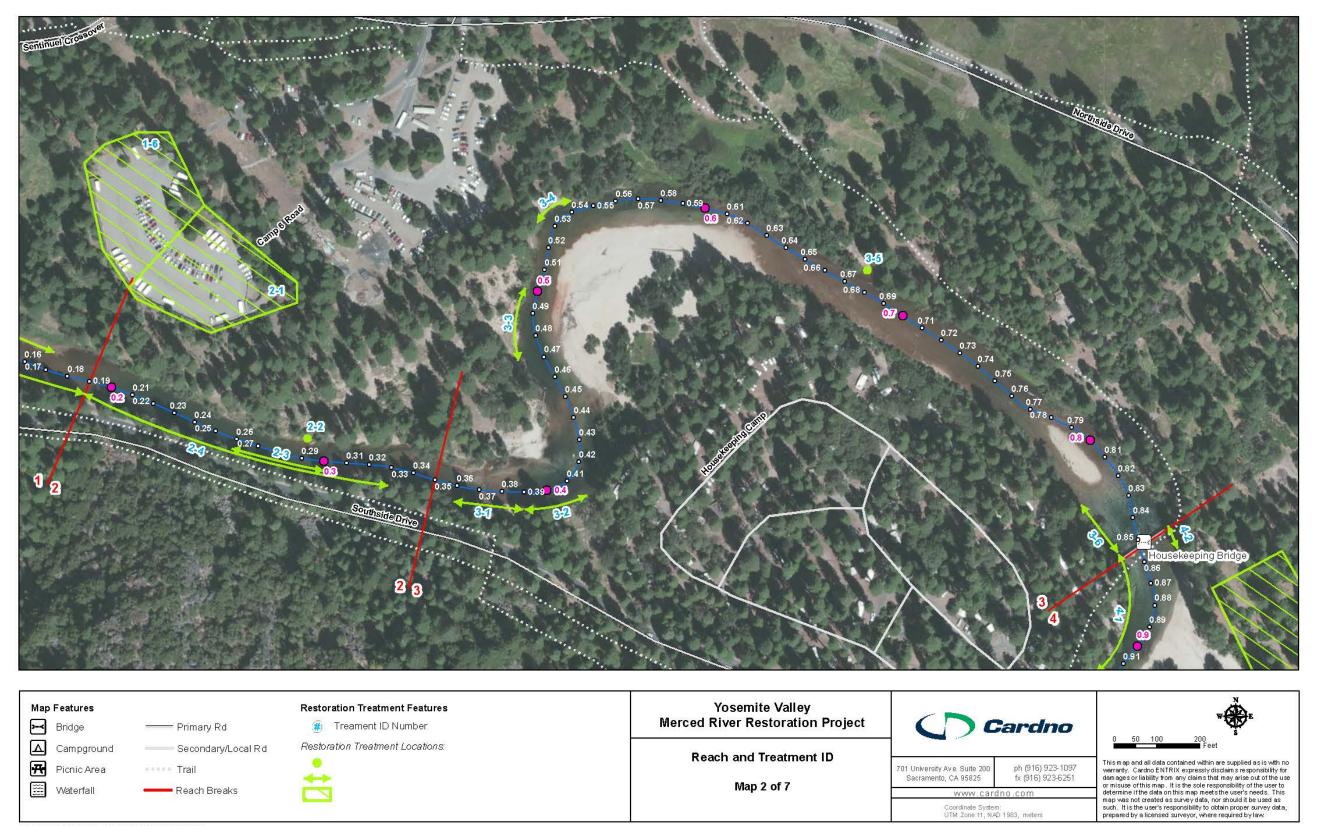
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Reach and		Existir	ng Condition and Recommend	dations		Implementation Needs	
Treatment ID # (Map ID)	(River Miles) (LB or RB)	Problems and Issues	Treatment Objective	Treatment Type	Analyses	Design	Field Oversight
Reach 1	RM 0-0.19						
1-1	0-0.02 (LB)	 Artificial Bank Protection Eroding Banks (toe) Eroding Bank (face) Denuded and/or Compacted Soils Lateral Confinement 	Stabilize streambank and enhance riparian corridor. Provide hardened access point for recreation to reduce area and magnitude of impacts to riparian corridor and bank.	 Hardened River Access Retain Artificial Bank Protection 	Visual Survey	Materials List / Quantities	Staking
1-2	0-0.04 (RB)	Artificial Bank Protection Eroding Banks (toe)	Enhance riparian corridor. Retain riprap where vegetation is already established.	Retain Artificial Bank Protection	-	-	-
1-3	0.05 (RB)	Artificial Bank Protection Disconnected Floodplain / Overwide Channel	Stabilize streambank . Remove riprap that is able to be "plucked" from bank.	Selective Riprap Removal (Typical Graphic C-2)	-	Materials List / Quantities	Construction Training
1-4	0.07-0.12 (mid- channel)	 Disconnected Floodplain / Overwide Channel Simplified Channel Morphology 	Promote mid-channel bar formation to narrow channel and reactivate floodplain.	Mid Bar-forming ELF (Typical Graphic C-6) In combination with Treatments 1- 4 and 1-5.	Ballasting CalculationsHydraulic Modeling	 Details Specifications Materials List / Quantities Cost Estimate 	Construction DirectionInspection
1-5	0.11-0.17 (RB)	Disconnected Floodplain / Overwide Channel	Reconnect floodplain.	Bank Lowering with Floodplain Reconnection (Typical Graphic C-8) In combination with Treatments 1- 4 and 1-5.	Hydraulic ModelingBank Stability Modeling	 Details Specifications Materials List / Quantities Cost Estimate 	StakingConstruction DirectionInspection
1-6	0.16-0.19 (RB)	Compacted/Dewatered Soils Floodplain Fill	Restore native vegetation. Remove non-native fill material, recontour the topography, and reintroduce native vegetation to restored areas.	 Floodplain Fill Removal Floodplain Grading and Soil Modification 	Visual SurveySoils Analysis	Materials List / Quantities -	Staking
1-7	0.07-0.19 (LB)	 Eroding Banks (toe) Eroding Banks (face) Lateral Confinement Simplified Vegetation Structure Minimal Vegetation Recruitment 	Stabilize streambank and enhance riparian corridor.	Reconstructed Bank (Typical Graphic C-1)	 Topographic and Visual Survey Bank Stability Modeling Ballasting Calculations 	DetailsSpecificationsMaterials List/QuantitiesCost Estimate	StakingConstruction TrainingInspection
1-8	0.15 (LB)	 Eroding Banks (toe) Eroding Banks (face) Lateral Confinement Denuded and/or Compacted Soils Simplified Vegetation Structure Minimal Vegetation Recruitment 	Stabilize streambank and enhance riparian corridor. Exclude / redirect recreation access.	Riparian Buffer Enhancement	Visual Survey	-	Staking



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Reach and	Location	Existir	ng Condition and Recommend	lations		Implementation Needs	
Treatment ID # (Map ID)	(River Miles) (LB or RB)	Problems and Issues	Treatment Objective	Treatment Type	Analyses	Design	Field Oversight
Reach 2	RM 0.19- 0.35						
2-1	0.19-0.25 (RB)	Compacted/Dewatered SoilsFloodplain Fill	Restore native vegetation. Remove non-native fill material, recontour the topography, and reintroduce native vegetation to restored areas.	 Floodplain Fill Removal Floodplain Grading and Soil Modification 	Visual SurveySoils Analysis	Materials List / Quantities	Staking
2-2	0.29 (RB)	Disconnected Floodplain / Entrenched Channel	Reactivate overflow channel and protect return flows.	Bank Lowering with Overflow Channel Reactivation (Typical Graphic C-8) Required with Treatment 3-3.	Hydraulic ModelingBank Stability Modeling	DetailsSpecificationsMaterials List/QuantitiesCost Estimate	StakingConstruction DirectionInspection
2-3	0.26-0.3 (LB)	Stormwater Drainage Infrastructure	Reduce erosion and improve water quality. Direct/control runoff paths and slowing runoff flows from the road before they enter the river.	Stormwater Pre-treatment	 Visual Survey to identify runoff flow paths Hydrologic Calculations for Culvert Design/ Detention Volume 	DetailsSpecificationsMaterials List/QuantitiesCost Estimate	Construction DirectionInspection
2-4	0.19-0.33 (LB)	 Artificial Bank Protection Lateral Confinement Minimal Vegetation Recruitment Simplified Vegetation Structure Low Species Diversity Denuded and/or Compacted Soils 	Stabilize streambank and protect road. Retain existing riprap to protect road.	Retain Artificial Bank Protection	-	-	-



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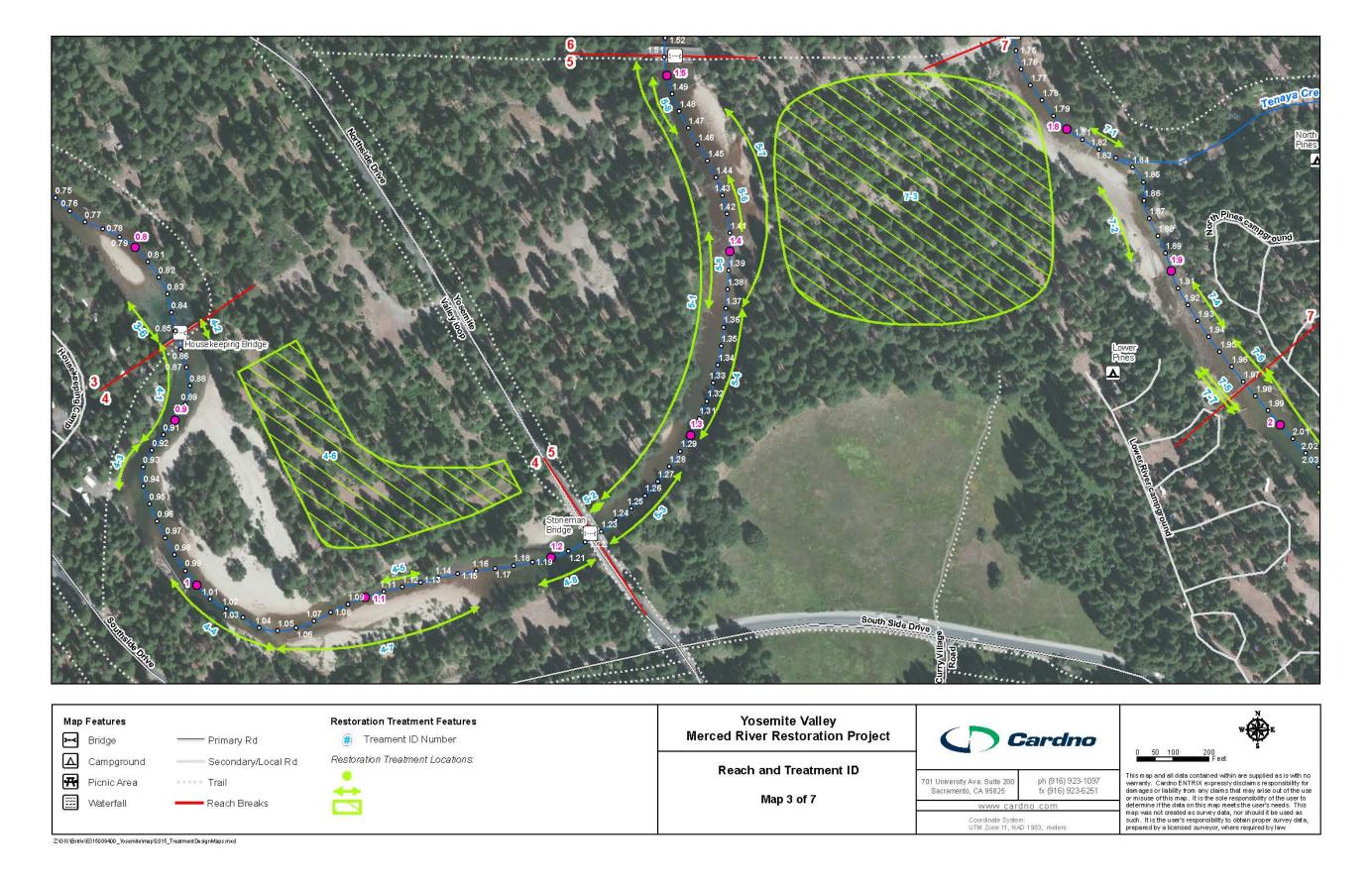
Reach and	Location	Existir	ng Condition and Recommend	dations		Implementation Needs	
Treatment ID # (Map ID)	(River Miles) (LB or RB)	Problems and Issues	Treatment Objective	Treatment Type	Analyses	Design	Field Oversight
Reach 3	RM 0.35- 0.85						
3-1	0.36-0.39 (LB)	 Eroding Banks (toe) Eroding Banks (face) Simplified Vegetation Structure Low Plant Species Diversity Minimal Vegetation Recruitment 	Stabilize streambank and enhance riparian corridor (incorporate existing large wood).	Reconstructed Bank (Typical Graphic C-1)	 Topographic and/or Quantity Survey Hydraulic Modeling Ballasting Calculations 	DetailsSpecificationsMaterials List/QuantitiesCost Estimate	StakingConstruction DirectionInspection
3-2	0.39-0.41 (LB)	Eroding Banks (toe)Eroding Banks (face)Denuded and/or Compacted Soils	Stabilize streambank and enhance riparian corridor (incorporate existing rock).	Reconstructed Bank (Typical Graphic C-1)	 Topographic and/or Quantity Survey Hydraulic Modeling Ballasting Calculations 	DetailsSpecificationsMaterials List/QuantitiesCost Estimate	StakingConstruction DirectionInspection
3-3	0.47-0.50 (RB)	Disconnected Floodplain / Entrenched Channel	Reactivate floodplain and enhance riparian corridor. Direct high flows into historic swale and onto the floodplain and return flows to the main channel.	Bank Lowering with Overflow Channel Reactivation (Typical Graphic C-8) Required with Treatment 2-2	 Topographic and/or Quantity Survey Hydraulic Modeling 	DetailsSpecificationsMaterials List/QuantitiesCost Estimate	StakingConstruction DirectionInspection
3-4	0.53-0.54 (RB)	Eroding Banks (toe)Eroding Banks (face)Denuded and/or Compacted Soils	Enhance riparian corridor. Exclude/ redirect recreation access.	Riparian Buffer Enhancement	Visual Survey	-	Staking
3-5	0.67 (RB)	Disconnected Floodplain / Entrenched Channel	Reactivate overflow channels and enhance riparian corridor. Direct high flows into historic swale and onto the floodplain and return flows to the main channel.	Bank Lowering with Overflow Channel Reactivation (Typical Graphic C-8)	Topographic and Visual Survey	DetailsSpecificationsMaterials List/QuantitiesCost Estimate	StakingConstruction DirectionInspection
3-6	0.83-0.85 (LB)	 Artificial Bank Protection Eroding Banks (toe) Eroding Banks (face) Localized Channel Scour Lateral Confinement 	Stabilize streambank and enhance riparian corridor. Maintain/repair existing riprap wall and plant vegetation to enhance streambank corridor.	Retain Artificial Bank Protection Reconstructed Bank (Typical Graphic C-1)	 Topographic and/or Quantity Survey Bank Stability Modeling Ballasting Calculations 	DetailsSpecificationsMaterials List/QuantitiesCost Estimate	StakingConstruction DirectionInspection



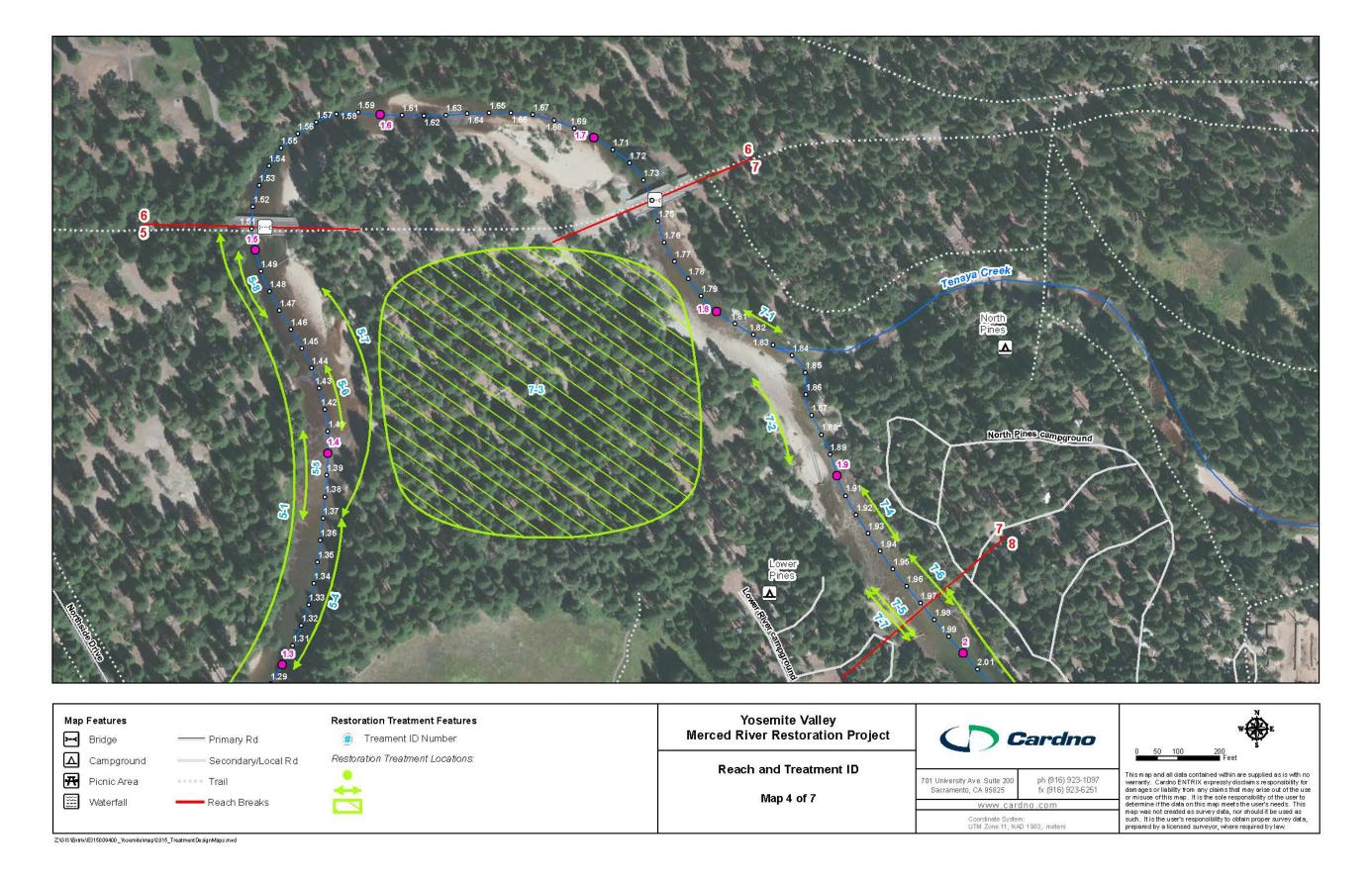
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Reach and		Existir	ng Condition and Recommend	dations		Implementation Needs	
Treatment ID # (Map ID)	(River Miles) (LB or RB)	Problems and Issues	Treatment Objective	Treatment Type	Analyses	Design	Field Oversight
Reach 4	RM 0.85- 1.22						
4-1	0.85-0.92 (LB)	 Bridge Alignment (?) Artificial Bank Protection Eroding Banks (toe) Eroding Banks (face) Denuded and/or Compacted Soils Minimal Vegetation Recruitment Low Species Diversity Simplified Vegetation Structure 	Stabilize streambank and enhance riparian corridor. Retain rock at the toe, plant native vegetation on the upper bank, and exclude recreation access.	 Selective Riprap Removal (Typical Graphic C-2) Riparian Buffer Enhancement Bank Grading and Soil Modification 	Hydraulic Modeling Bank Stability Modeling	 Details Materials List/Quantities 	StakingInspection
4-2	0.85-0.86 (RB)	 Bridge Alignment (?) Artificial Bank Protection Denuded and/or Compacted Soils 	Enhance riparian corridor. Exclude/ redirect recreation access.	 Retain Artificial Bank Protection Riparian Buffer Enhancement Hardened River Access 	Visual Survey	-	Staking
4-3	0.92-0.94 (LB)	 Disconnected Floodplain / Overwide Channel Artificial Bank Protection Simplified Channel Morphology Denuded and/or Compacted Soils Minimal Vegetation Recruitment Simplified Vegetation Structure Low Species Diversity 	Stabilize streambank and enhance riparian corridor.	 Reconstructed Bank (Typical Graphic C-1) Selective Riprap Removal (Typical Graphic C-2) Riparian Buffer Enhancement Bank Grading and Soil Modification 	 Topographic and/or Quantity Survey Hydraulic Modeling Ballasting Calculations 	 Details Specifications Materials List/Quantities Cost Estimate 	StakingConstruction DirectionInspection
4-4	0.99-1.05 (LB)	 Eroding Banks (face) Denuded and/or Compacted Soils Minimal Vegetation Recruitment Simplified Vegetation Structure Low Species Diversity Unstable Tributary Confluence 	Stabilize streambank and enhance riparian corridor.	 Reconstructed Bank (Typical Graphic C-1) Brush Layering Floodplain-building Logs (Typical Graphic C-5) 	 Topographic and/or Quantity Survey Hydraulic Calculations Ballasting Calculations 	DetailsSpecificationsMaterials List/QuantitiesCost Estimate	StakingConstruction DirectionInspection
4-5	1.11-1.13 (RB)	 Artificial Bank Protection Eroding Banks (toe) Eroding Banks (face) Denuded and/or Compacted Soils Simplified Vegetation Structure Low Species Diversity 	Stabilize streambank and enhance riparian corridor.	Selective Riprap Removal (Typical Graphic C-2)	Visual Survey	-	Staking
4-6	0.88-1.21 (RB)	 Compacted / Dewatered Soils Disconnected Floodplain / Entrenched Channel Simplified Vegetation Structure Low Species Diversity 	Enhance riparian corridor. Remove dense pines; decompact soils, create microtopographic variation, and plant with various native floodplain species.	Floodplain Grading and Soil Modification	Visual Survey	SpecificationsMaterials List/Quantities	Staking
Reach 4	RM 0.85- 1.22						

Reach and	Location	Existir	ng Condition and Recommend	dations		Implementation Needs	
Treatment ID # (Map ID)	(River Miles) (LB or RB)	Problems and Issues	Treatment Objective	Treatment Type	Analyses	Design	Field Oversight
4-7	1.05 to 1.16 (LB)	Disconnected Floodplain / Overwide Channel	Promote bar formation and narrow channel. Place additional wood along the streambank to promote continued deposition of bar-forming materials.	Lateral Bar-forming ELF (Typical Graphic C-7)	Hydraulic Modeling Ballasting Calculations	DetailsSpecificationsMaterials List/QuantitiesCost Estimate	StakingConstruction DirectionInspection
4-8	1.19-1.22 (LB)	 Localized Channel Scour Eroding Banks (toe) Eroding Banks (face) Denuded and/or Compacted Soils Minimal Vegetation Recruitment Simplified Vegetation Structure Low Plant Species Diversity 	Stabilize streambank and enhance riparian corridor.	Crib Structure (Typical Graphic C-3)	 Topographic and/or Quantity Survey Ballasting Calculations 	 Details Specifications Materials List/Quantities Cost Estimate 	StakingConstruction DirectionInspection

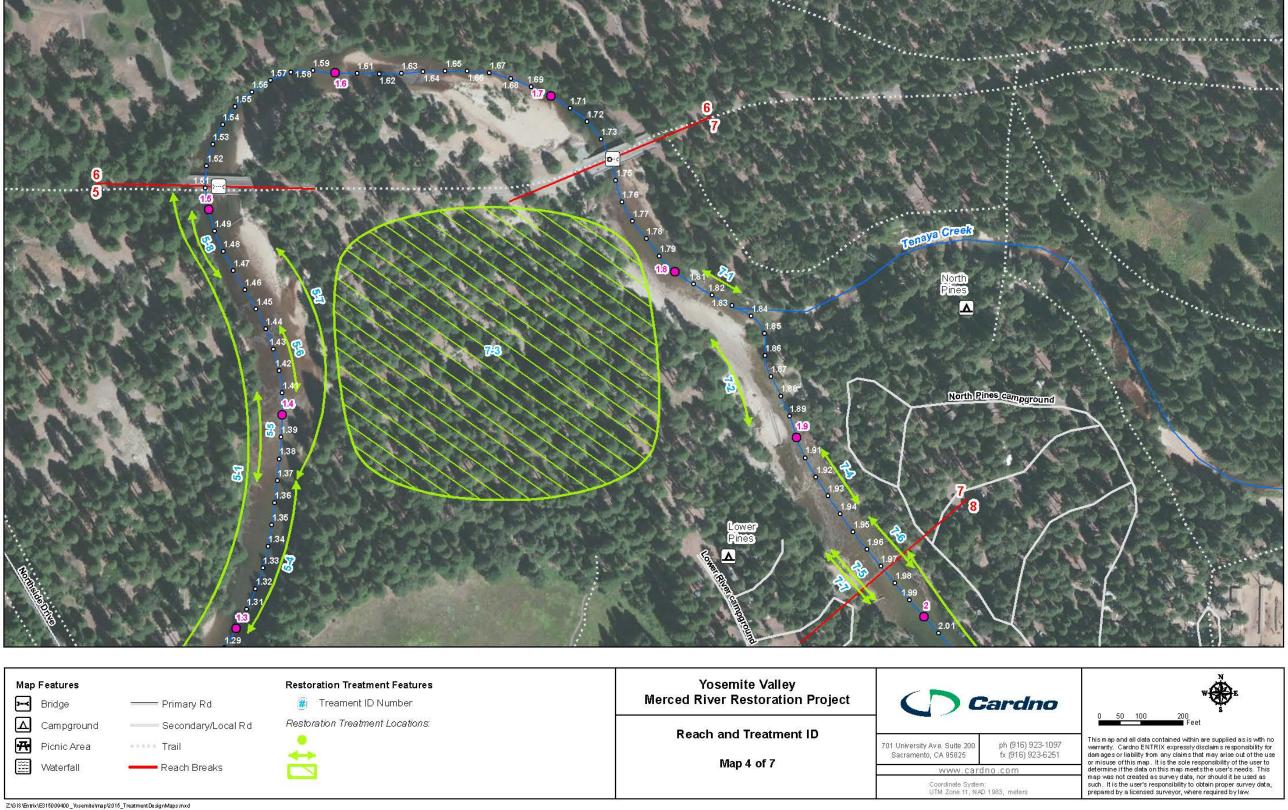


Reach and	Location	Existir	ng Condition and Recommend	dations		Implementation Needs	
Treatment ID # (Map ID)	(River Miles) (LB or RB)	Problems and Issues	Treatment Objective	Treatment Type	Analyses	Design	Field Oversight
Reach 5	RM 1.22- 1.51						
5-1	1.24-1.51 (RB)	 Floodplain Fill Denuded and/or Compacted Soils Minimal Vegetation Recruitment Low Species Diversity Simplified Vegetation Structure 	Enhance riparian corridor. Exclude/ redirect recreation access.	Riparian Buffer Enhancement	Visual Survey	-	Staking
5-2	1.22-1.24 (RB)	Denuded and/or Compacted Soils	Enhance riparian corridor. Exclude/ redirect recreation access.	Hardened River Access	Visual Survey	Materials List/Quantities	Staking
5-3	1.23 to 1.28 (LB)	 Artificial Bank Protection Simplified Vegetation Structure Bridge Alignment (?) 	Stabilize streambank and enhance riparian corridor. Retain riprap to maintain stability and construct flow deflecting ELF to deflect flows away from the bank.	 Flow-deflecting ELF (Typical Graphic C-4) Selective Riprap Removal (Typical Graphic C-2) Bank Grading and Soil Modification 	 Topographic and/or Quantity Survey Hydraulic Modeling Bank Stability Modeling Ballasting Calculations 	DetailsSpecificationsMaterials List/QuantitiesCost Estimate	StakingConstruction DirectionInspection
5-4	1.3 to 1.37 (LB)	 Disconnected Floodplain/ Overwide Channel Simplified Channel Morphology Minimal Vegetation Recruitment Simplified Vegetation Structure 	Promote channel narrowing and enhance riparian corridor. Bury logs near channel toe so that flows overtop logs and sediment settles behind logs, enlarge incipient floodplain surfaces and plant.	Floodplain-building Logs (Typical Graphic C-5) Combine with Treatments 5-5 and 5-6	Visual Survey	DetailsSpecificationsMaterials List/QuantitiesCost Estimate	StakingConstruction TrainingInspection
5-5	1.37 to 1.41 (RB)	 Disconnected Floodplain/ Overwide Channel Simplified Channel Morphology Minimal Vegetation Recruitment Simplified Vegetation Structure 	Promote channel narrowing and enhance riparian corridor. Bury logs near channel toe so that flows overtop logs and sediment settles behind logs, enlarge incipient floodplain surfaces and plant.	Floodplain-building Logs (Typical Graphic C-5) Combine with Treatments 5-4 and 5-6	Visual Survey	DetailsSpecificationsMaterials List/QuantitiesCost Estimate	StakingConstruction TrainingInspection
5-6	1.41-1.44 (LB)	 Disconnected Floodplain/ Overwide Channel Simplified Channel Morphology 	Diversify channel morphology. Prompt mid-channel bar-formation, raising the bed profile.	Mid Bar-forming ELF (Typical Graphic C-6) Combine with Treatments 5-4 and 5-5	Visual SurveyBallasting Calculations	DetailsSpecificationsMaterials List/QuantitiesCost Estimate	StakingConstruction DirectionInspection
5-7	1.37-1.47 (LB)	 Disconnected Floodplain / Entrenched Channel Minimal Vegetation Recruitment Simplified Vegetation Structure 	Stabilize streambank and enhance riparian corridor. Reactivate overflow channel and protect return flows (from Treatment 7-2).	 Bank Lowering with Overflow Channel Reactivation (Typical Graphic C-8) Reconstructed Bank (Typical Graphic C-1) Required with Treatment 7-2	 Topographic and/or Quantity Survey Hydraulic Modeling Bank Stability Modeling Ballasting Calculations 	 Details Specifications Materials List/Quantities Cost Estimate 	StakingConstruction DirectionInspection
5-8	1.47-1.50 (RB)	Artificial Bank Protection	Stabilize streambank while protecting existing vegetation.	Retain Artificial Bank Protection	-	-	-



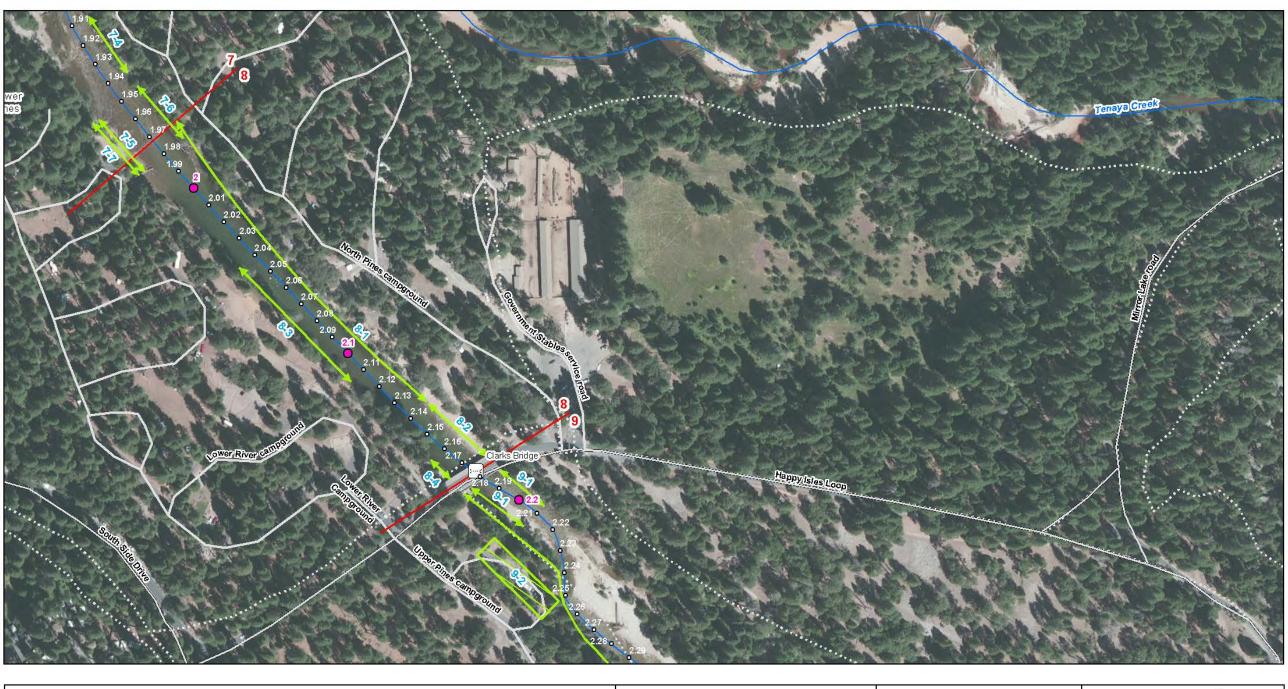
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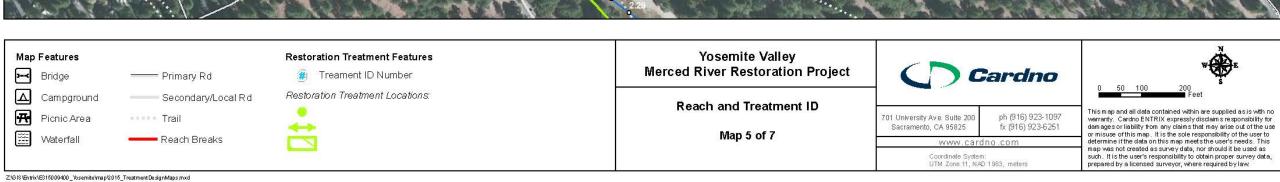
Reach and	Location	Existin	ng Condition and Recommend	Implementation Needs						
Treatment ID # (Map ID)	(River Miles) (LB or RB)	Problems and Issues	Treatment Objective	Treatment Type	Analyses	Design	Field Oversight			
Reach 6	RM 1.51- 1.74									
	Pending Investigation of the Reach-Specific Study									



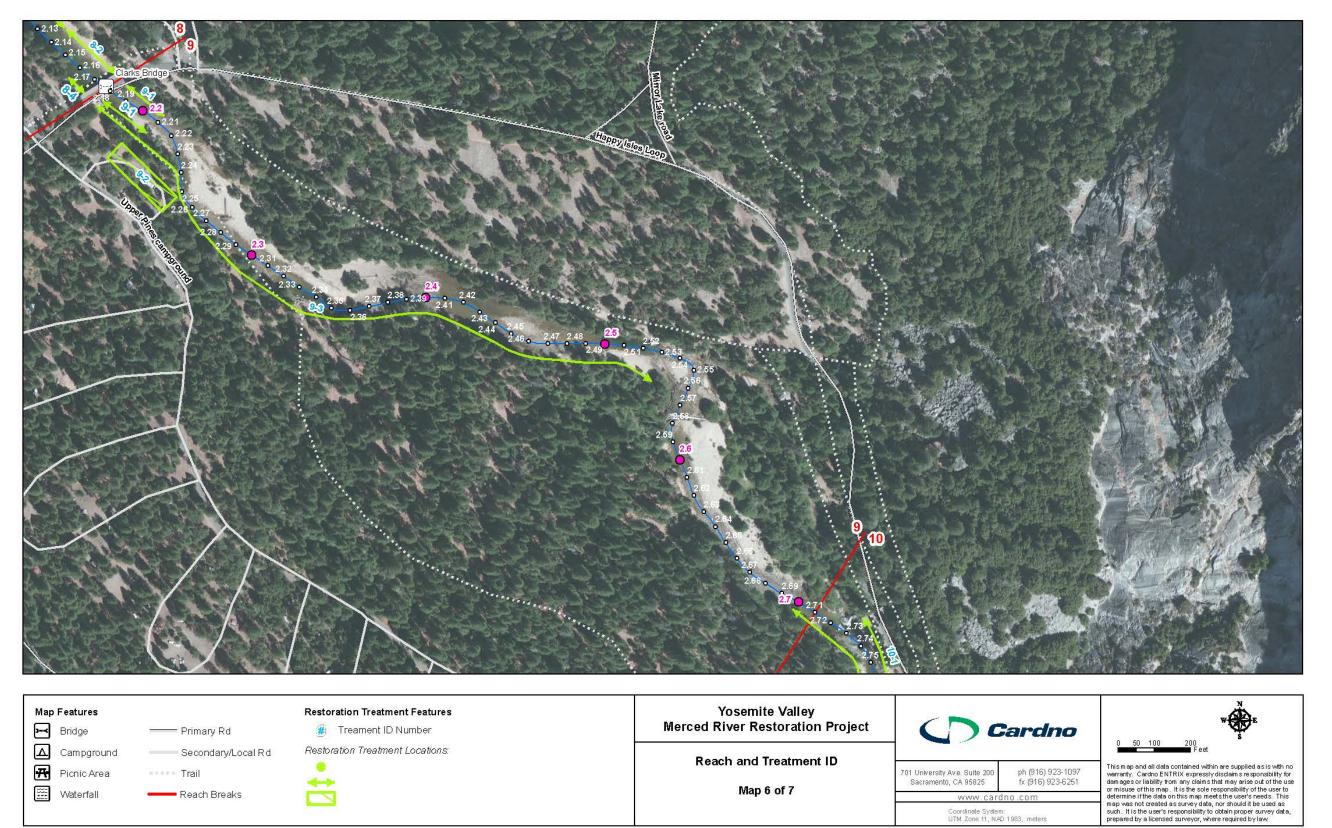
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Reach and	Location	Existir	ng Condition and Recommend	dations		Implementation Needs	
Treatment ID # (Map ID)	(River Miles) (LB or RB)	Problems and Issues	Treatment Objective	Treatment Type	Analyses	Design	Field Oversight
Reach 7	RM 1.74- 1.97						
7-1	1.81-1.83 (RB)	Eroding Banks (face)	Stabilize streambank erosion and enhance riparian corridor. Construct Crib Structure (Typical Graphic C-3) with plantings to protect bank from continued bank erosion.	Crib Structure (Typical Graphic C-3) Benefits Treatment 7-2 and 7-3	 Hydraulic Modeling Topographic and/or Quantity Survey Ballasting Calculations 	DetailsSpecificationsMaterials List/QuantitiesCost Estimate	StakingConstruction DirectionInspection
7-2	1.84-1.89 (LB)	 Disconnected Floodplain / Entrenched Channel Bridge Alignment (?) 	Reconnect floodplain and enhance riparian corridor. Reconnect historic swale to release flow onto floodplain during high flows.	 Bank Lowering with Floodplain Reconnection (Typical Graphic C-8) LWD Relocation Required with Treatment5-7	Hydraulic Modeling Bank Stability Modeling	DetailsSpecificationsMaterials List/QuantitiesCost Estimate	StakingConstruction DirectionInspection
7-3	1.84-1.89 (LB)	 Compacted / Dewatered Soils Floodplain Fill Simplified Vegetation Structure Low Species Diversity 	Enhance riparian corridor. Remove dense pines; decompact soils and create microtopographic variation; plant with diversity of native floodplain species.	 Floodplain Grading and Soil Modification LWD Relocation Benefits Treatments 5-7, 7-1, 7-2 	Visual Survey	SpecificationsLWD Maintenance Protocol	StakingConstruction Training
7-4	1.91-1.94 (RB)	 Disconnected Floodplain / Overwide Channel Simplified Vegetation Structure Low Species Diversity Minimal Vegetation Recruitment 	Promote channel narrowing and enhance riparian corridor. Construct Lateral Bar-forming ELF (Typical Graphic C-7) to promote continued deposition. Exclude recreation access to protect riparian corridor and streambanks.	 Lateral Bar-forming ELF (Typical Graphic C-7) Riparian Buffer Enhancement 	Visual and Quantity SurveyBallasting Calculations	DetailsSpecificationsMaterials List/QuantitiesCost Estimate	StakingConstruction DirectionInspection
7-5	1.95-1.98 (LB)	Disconnected Floodplain / Overwide Channel	Stabilize streambank and enhance riparian corridor. Incorporate standing and down large woody material.	Reconstructed Bank (Typical Graphic C-1) Brush Layering	Visual and Quantity SurveyBallasting Calculations	DetailsSpecificationsMaterials List/QuantitiesCost Estimate	StakingConstruction DirectionInspection
7-6	1.95-1.98 (RB)	 Denuded and/or Compacted Soils Simplified Vegetation Structure Low Species Diversity Minimal Vegetation Recruitment 	Enhance riparian corridor. Exclude/ redirect recreation access.	Riparian Buffer Enhancement	Visual Survey	-	Staking
7-7	1.95-1.98 (LB)	 Denuded and/or Compacted Soils Simplified Vegetation Structure Low Species Diversity Minimal Vegetation Recruitment 	Enhance riparian corridor. Exclude/ redirect recreation access.	Riparian Buffer Enhancement	Visual Survey	-	Staking



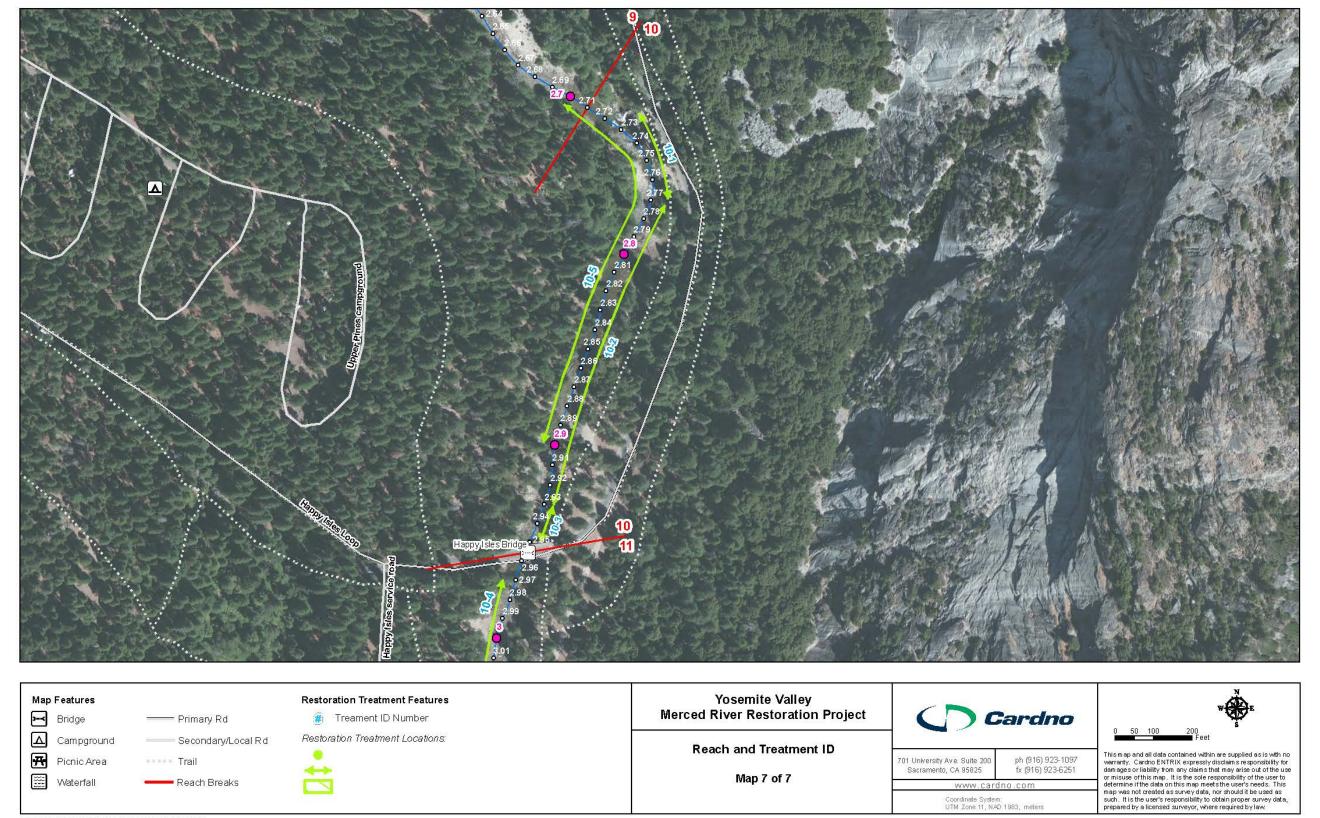


Reach and		Existin	ng Condition and Recommend	dations		Implementation Needs	T
Treatment ID # (Map ID)	(River Miles) (LB or RB)	Problems and Issues	Treatment Objective	Treatment Type	Analyses	Design	Field Oversight
Reach 8	RM 1.97- 2.18						
8-1	1.97-2.14 (RB)	 Eroding Banks (toe) Eroding Banks (face) Floodplain Fill Lateral Confinement Denuded and/or Compacted Soils Simplified Vegetation Structure Minimal Vegetation Recruitment Simplified Channel Morphology 	Stabilize streambanks and enhance riparian corridor. Plant native vegetation and exclude/redirect recreation access.	Brush Layering Riparian Buffer Enhancement	Visual Survey	Specifications	Staking
8-2	2.14-2.18 (RB)	 Floodplain Encroachment /Fill Lateral Confinement Denuded and/or Compacted Soils Simplified Vegetation Structure Low Species Diversity Minimal Vegetation Recruitment 	Enhance riparian corridor. Exclude/ redirect recreation access.	Hardened River Access	Visual Survey and Quantity Survey	SpecificationsMaterials List/Quantities	Staking
8-3	2.04-2.11 (LB)	Eroding Banks (toe) Eroding Banks (face) Denuded and/or Compacted Soils Simplified Vegetation Structure Minimal Vegetation Recruitment	Stabilize streambank and enhance riparian corridor. Regrade soils after road removal for planting, plant native vegetation, and exclude/redirect recreation access.	 Riparian Buffer Enhancement Bank Grading and Soil Modification Floodplain Grading and Soil Modification 	Visual Survey	SpecificationsMaterials List/Quantities	Staking
8-4	2.16-2.18 (LB)	Artificial Bank ProtectionDenuded and/or Compacted Soils	Stabilize streambanks. Maintain existing riprap.	Retain Artificial Bank Protection	-	-	-



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Reach and	Location	Existir	ng Condition and Recommen	dations		Implementation Needs	
Treatment ID # (Map ID)	(River Miles) (LB or RB)	Problems and Issues	Treatment Objective	Treatment Type	Analyses	Design	Field Oversight
Reach 9	RM 2.18- 2.71						
9-1	2.18-2.21 (LB and RB)	 Artificial Bank Protection Eroding Banks (face) Denuded and/or Compacted Soils Simplified Vegetation Structure Minimal Vegetation Recruitment Lateral Confinement 	Stabilize streambanks. Maintain existing riprap.	 Retain Artificial Bank Protection Bank Grading and Soil Modification 	Visual Survey	-	Staking
9-2	2.21-2.24 (LB)	Stormwater Drainage Infrastructure	Enhance riparian corridor. Restore functions to campground removal area	Stormwater Pretreatment Floodplain Grading and Soil Modification	Visual Survey to identify runoff flow pathsHydrologic Analysis	DetailsSpecificationsMaterials List/QuantitiesCost Estimate	Construction DirectionInspection
9-3	2.18-2.53 (LB)	 Eroding Banks (toe) Eroding Banks (face) Denuded and/or Compacted Soils Unstable Tributary Confluence 	Enhance riparian corridor. Regrade trail removal area for planting; plant; and exclude recreation access.	 Floodplain Grading and Soil Modification Riparian Buffer Enhancement 	Visual Survey	Specifications	Staking



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Reach and	Location	Existii	ng Condition and Recommend	dations		Implementation Needs	
Treatment ID # (Map ID)	(River Miles) (LB or RB)	Problems and Issues	Treatment Objective	Treatment Type	Analyses	Design	Field Oversight
Reach 10	RM 2.71- 2.95						
10-1	2.73-2.77 (RB)	 Artificial Bank Protection Denuded and/or Compacted Soils Simplified Vegetation Structure Minimal Vegetation Recruitment 	Stabilize streambanks and enhance riparian corridor. Remove existing riprap and plant native vegetation.	Selective Riprap Removal (Typical Graphic C-2)	Visual Survey	Specifications	Construction Training
10-2	2.77-2.93 (RB)	 Artificial Bank Protection Eroding Banks (face) Simplified Vegetation Structure Minimal Vegetation Recruitment Disconnected Floodplain / Entrenched Channel 	Stabilize streambanks and enhance riparian corridor. Remove existing riprap and plant native vegetation.	 Selective Riprap Removal (Typical Graphic C-2) Floodplain Grading and Soil Modification Coordinate with Treatment 10-3 to determine boundary between riprap removal and retention 	Visual Survey	Specifications	Staking Construction Training
10-3	2.93-2.95 (RB)	 Artificial Bank Protection Eroding Banks (face) Simplified Vegetation Structure Minimal Vegetation Recruitment Disconnected Floodplain / Entrenched Channel Localized Channel Scour 	Stabilize streambanks. Maintain existing riprap.	Retain Artificial Bank Protection Coordinate with Treatment 10-2 to determine boundary between riprap removal and retention	Hydraulic Modeling Bank Stability Modeling	-	-
10-4	2.97-3.09 (LB)	 Lateral Confinement Disconnected Floodplain / Entrenched Channel Localized Channel Scour 	Reactivate overflow channels. Reconnect high flow channels that connect to culverts adjacent to bridge to improve bridge conveyance.	Bank Lowering with Overflow Channel Reactivation (Typical Graphic C-8) Required with Treatment 10-5	Topographic and Quantity Survey Hydraulic Modeling	DetailsSpecificationsMaterials List/QuantitiesCost Estimate	StakingConstruction DirectionInspection
10-5	2.7-2.9? (LB)	Disconnected Floodplain / Entrenched Channel	Accommodate reactivated overflow channel return flows.	Bank Lowering with Overflow Channel Reactivation (Typical Graphic C-8) Required with Treatment 10-4	Hydraulic Modeling Bank Stability Modeling	DetailsSpecificationsMaterials List/QuantitiesCost Estimate	StakingConstruction DirectionInspection