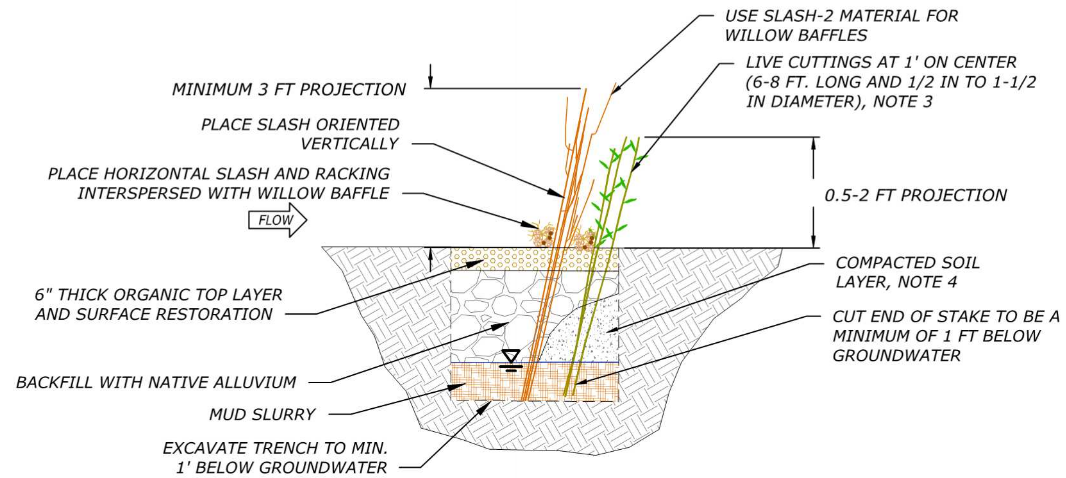
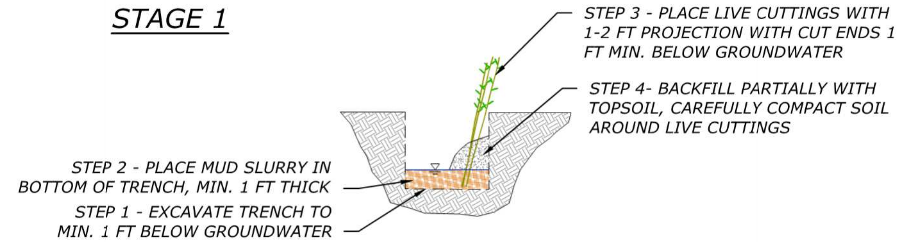
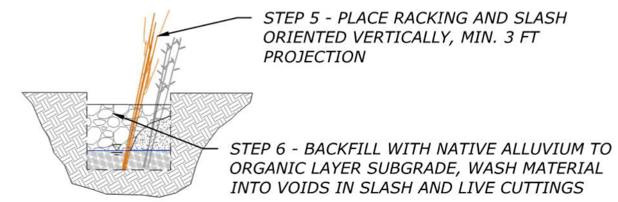
STRUCTURE SEQUENCING



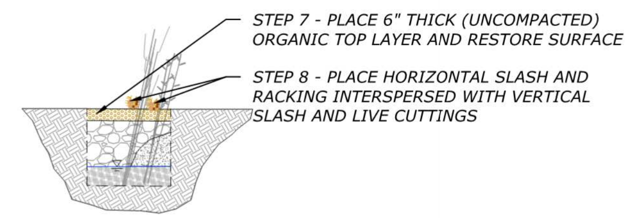
STAGE 1



STAGE 2



STAGE 3



STAGE 1: MUD SLURRY IN BOTTOM OF EXCAVATED TRENCH WITH LIVE CUTTINGS PLACED WITH BOTTOM END EXTENDING BELOW GROUNDWATER.

STAGE 2: VERTICAL SLASH/RACKING PLACED AND BACKFILLING TRENCH WITH NATIVE ALLUVIUM.

STAGE 3: TRENCH BACKFILLED WITH NATIVE ALLUVIUM AND ORGANIC TOP LAYER BEING PLACED.

NOTES:

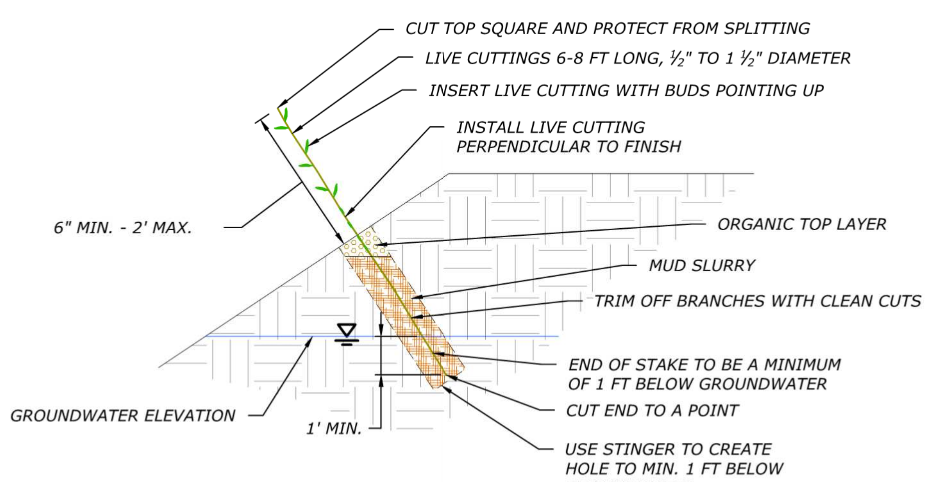
1. INSTALL WILLOW BAFFLE AT LOCATIONS SHOWN IN THE PLANS OR AS DIRECTED BY CONTRACTING OFFICER.
2. EXCAVATE TEMPORARY TRENCH TO 1' BELOW LOCAL GROUNDWATER.
3. INSTALL LIVE CUTTINGS WITH CUT ENDS AT 1 FT ON CENTER IN TOE OF TRENCH.
4. PLACE MUD SLURRY IN BOTTOM OF TRENCH TO AID IN STEM TO SOIL CONTACT.
5. COMPACT A SMALL LAYER OF SOIL TO ENSURE STEM TO SOIL CONTACT.
6. PLACE 4.5 C.Y. SLASH-2 MATERIAL (PER 20' OF TRENCH) IN TRENCH ORIENTED VERTICALLY AND ANGLED IN THE DOWNSTREAM DIRECTION. PLACED SLASH FORM A CONTINUOUS 6-8" THICK WALL OF "STEMS" PROTRUDING FROM THE GROUND THE ENTIRE LENGTH OF THE TRENCH.
7. BACKFILL TRENCH WITH NATIVE ALLUVIUM MATERIAL AND COMPACT IN MAXIMUM LIFTS OF 1'. USE WATER TO WASH MATERIAL INTO VOIDS IN SLASH AND CUTTINGS AT EACH LIFT.
8. INSTALL RACKING BETWEEN CUTTINGS AND VERTICAL SLASH LARGELY PARALLEL TO THE TRENCH.
9. INSTALL TOP 1.5 C.Y. OF SLASH-2 (PER 20' TRENCH) ON TOP OF THE BACKFILLED TRENCH ORIENTED PARALLEL TO THE TRENCH AND INTERSPERSED AMONGST THE VERTICAL SLASH AND CUTTINGS.
10. LENGTHS OF WILLOW BAFFLES ARE 20 OR 40 FEET AS SHOWN ON PLANS, OR AS DIRECTED BY C.O. WHILE QUANTITIES SHOWN IN THE SCHEDULE ARE FOR A 20 FOOT SEGMENT.
11. SEE DRAWING L1 AND SPECIFICATIONS FOR PLANTING AND SEEDING REQUIREMENTS.

WILLOW BAFFLE FLOODPLAIN TREATMENT MATERIAL SCHEDULE

LOG TYPE	SIZE (DBH)	LENGTH (FT)	ROOTWAD	MIN. ROOTWAD DIA. (FT)	BRANCHES	QUANTITY
Slash	1" - 4"	5 - 15	NA	NA	Yes	16 CY
Live Cuttings	> 3/4"	6 - 8	NA	NA	NA	42 EA

1. IF LIVE CUTTINGS QUANTITY IS FOR DORMANT INSTALLATION, QUANTITY SHALL BE DOUBLED IF INSTALLED APRIL 21 TO OCTOBER 10.

18 WILLOW BAFFLE
NTS



19 LIVE CUTTINGS
NTS

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NEZ PERCE TRIBE TREATY OF 1855

CHESNIMNUS CREEK - WILLIAMS RESTORATION DESIGN

DRAFT 80% DESIGN DRAWINGS

FOR NEZ PERCE TRIBE
CHESNIMNUS CREEK, GRANDE RONDE RIVER BASIN, OREGON
WALLOWA COUNTY, OREGON

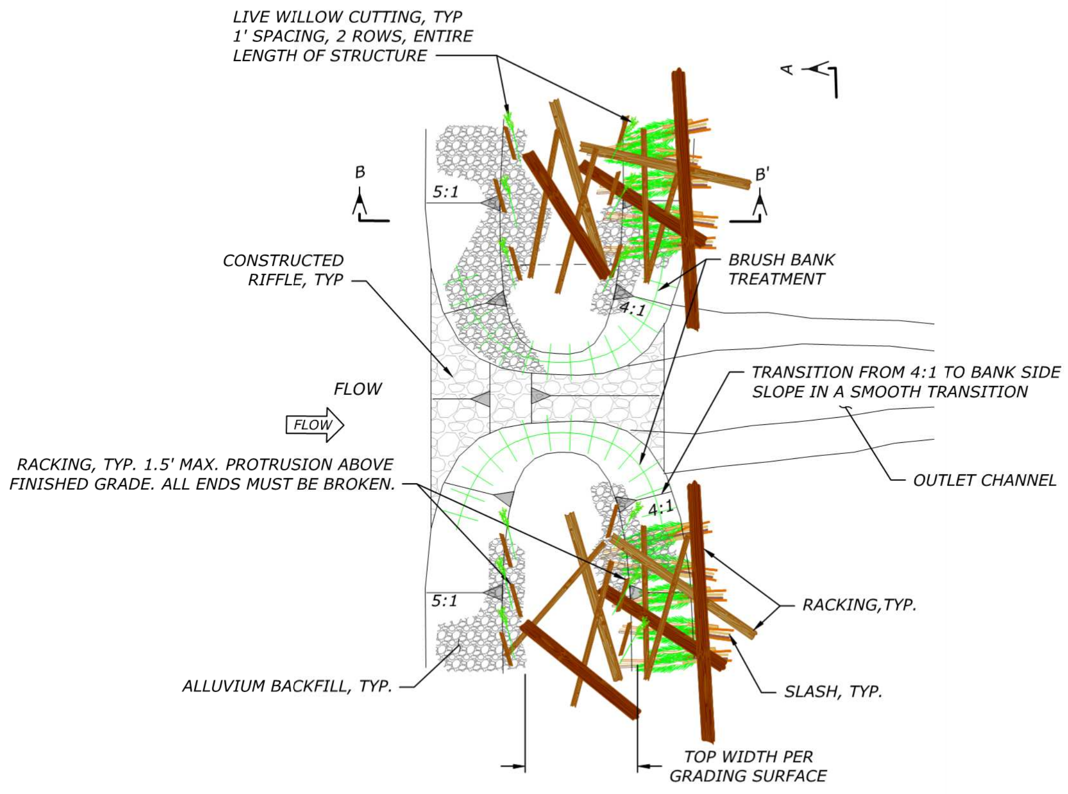
WORKING DRAFT FOR REVIEW AND REVISION

DATE: JULY, 2025
DESIGNED: MP, IB, JF, ZS, SB
APPROVED: JF

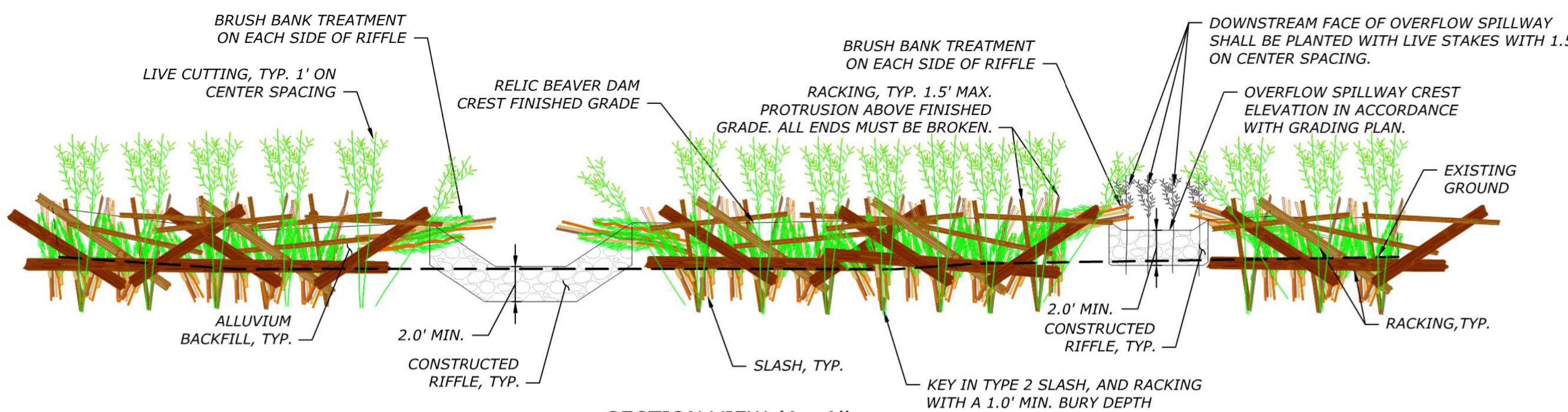
DRAWING NAME
DETAILS

WILLOW BAFFLES AND LIVE CUTTINGS

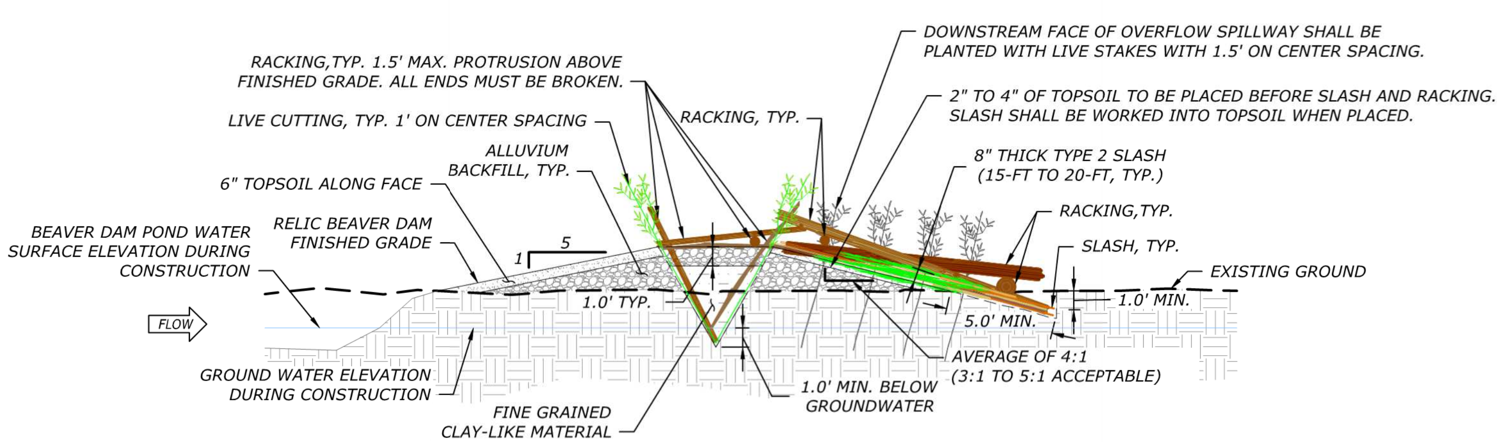
DRAWING NO.
D13
SHEET 87 OF 94



PLAN



SECTION VIEW (A - A')



SECTION VIEW (B - B')

20 HABITAT STRUCTURE - 5 (HS-5) FLOODPLAIN BEAVER DAM ANALOGUE

NTS

EXAMPLE CONSTRUCTED RELIC BEAVER DAM.

FLOODPLAIN BDA MATERIAL SCHEDULE (PER LINEAR FOOT)

LOG TYPE	SIZE (DBH)	LENGTH (FT)	ROOTWAD	MIN. ROOTWAD DIA. (FT)	BRANCHES	QUANTITY
Racking-1 or 2	4" - 12"	15 - 25	Yes	NA	Yes	1 EA
Slash	1" - 4"	5 - 15	NA	NA	Yes	0.3 CY
Live Cuttings	> 3/4"	6 - 8	NA	NA	NA	2 EA

1. IF LIVE CUTTINGS QUANTITY IS FOR DORMANT INSTALLATION, QUANTITY SHALL BE DOUBLED IF INSTALLED APRIL 21 OCTOBER 10.

INSTALLING RELIC BEAVER DAM AND SLASH AND POST STRUCTURES:

1. THE ENGINEER SHALL SUPERVISE THE INSTALLATION OF THE FIRST RELIC BEAVER DAM STRUCTURE TO INSURE PROPER INSTALLATION. THE CONTRACTOR MAY PROCEED WITH UNSUPERVISED INSTALLATION OF THE REST OF THE STRUCTURES, ONCE THE ENGINEER HAS SIGNED OFF THAT THEY ARE PROPERLY TRAINED.
2. ALL STRUCTURES SHALL BE PLACED AS SHOWN ON THE DRAWINGS.

SLASH AND RACKING:

1. PLACE SLASH AND RACKING SUCH THAT PIECES ARE INTERLACED WITH PARTIALLY BURIED MEMBERS. NO RACKING AND SLASH SHALL BE PLACED LOOSELY ON THE GROUND SUCH THAT IT WOULD FLOAT AWAY IN THE EVENT OF HIGH WATER.
2. RACKING PIECES SHALL NOT EXTEND BEYOND 1.5' ABOVE FINISHED GRADE.

RELIC BEAVER DAM BACKFILL MATERIAL:

1. BEAVER DAM CORE BACKFILL MATERIAL SHALL CONSIST OF FINE GRAINED CLAY-LIKE MATERIAL LARGELY FREE OF GRAVELS AND COBBLES TO REDUCE PERMEABILITY AND TO ALLOW INFILLING OF VOID SPACE BETWEEN RACKING AND SLASH MATERIAL.
2. BEAVER DAM GENERAL BACKFILL MATERIAL SHALL BE A MIX OF COBBLES, GRAVELS, AND FINES TO REDUCE PERMEABILITY. MATERIAL SHALL BE GENERATED FROM STOCKPILES OF EXCAVATED MATERIAL FROM PROJECT EXCAVATIONS.
3. BACKFILL MATERIALS SHALL BE APPROVED BY THE CONTRACTING OFFICER OR ENGINEER PRIOR TO PLACEMENT.
4. SEE DRAWING L1 AND SPECIFICATIONS FOR PLANTING AND SEEDING REQUIREMENTS.

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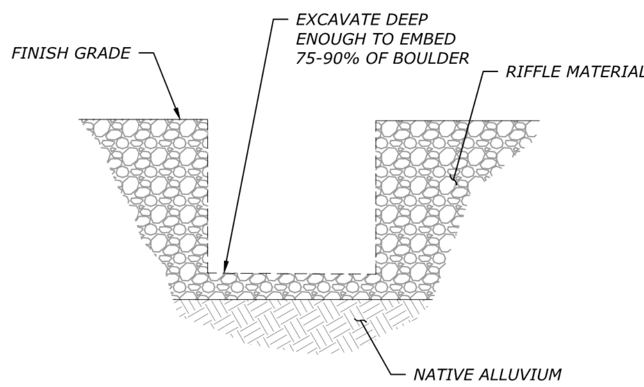
BEAVER DAM ANALOGUE

DRAWING NO.

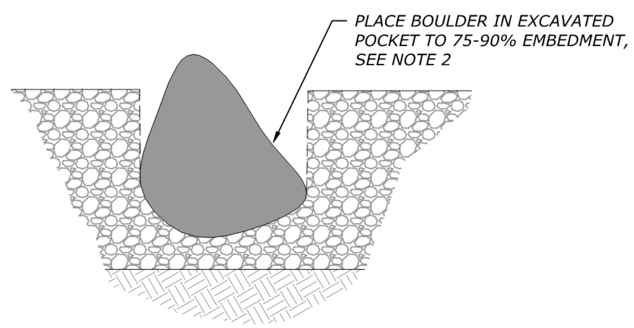
D14

SHEET 88 OF 94

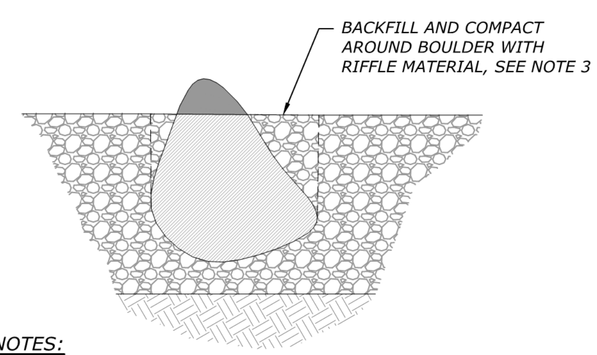
STAGE 1 - EXCAVATE POCKET IN CONSTRUCTED RIFFLE



STAGE 2 - PLACE BOULDER IN POCKET



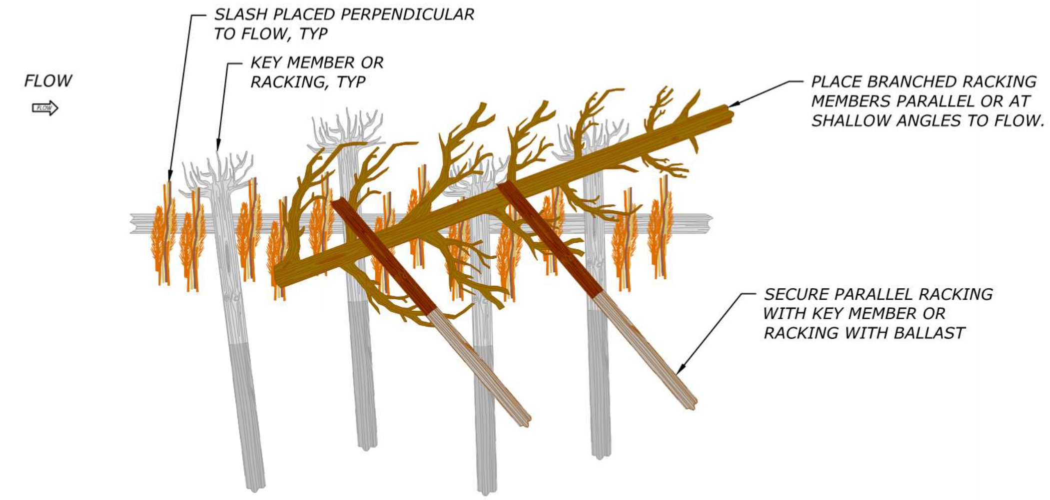
STAGE 3 - BACKFILL POCKET AND WASH IN FINES



BOULDER PLACEMENT NOTES:

1. AFTER INITIAL RIFFLE CONSTRUCTION (SEE RIFFLE CONSTRUCTION NOTES IN DRAWING D3), POCKETS SHALL BE EXCAVATED IN RIFFLE MATERIAL, DEEP ENOUGH TO SET BOULDERS TO 75-90% EMBEDMENT. HABITAT BOULDERS SHALL BE SET WITH 75-90% EMBEDMENT AS DIRECTED BY C.O.
2. PLACE BOULDERS IN POCKETS, USING EXCAVATOR BUCKET TO FIRMLY SEAT THE BOULDER, WITHOUT BREAKING, INTO RIFFLE MATRIX AT A DEPTH THAT PRODUCES 75-90% EMBEDMENT (BASED ON APPROXIMATE DIAMETER IN VERTICAL DIRECTION NOT MASS). BOULDER SHOULD BE FIRMLY SEATED SO THAT THERE ARE NO VOID SPACES UNDERNEATH THE BOULDER.
3. BACKFILL POCKET WITH RIFFLE MATERIAL TO AND COMPACT TO FINAL GRADE, FILLING ALL VOIDS AROUND THE BOULDER. WASH ADDITIONAL FINES INTO MATRIX SURROUNDING BOULDERS AND COMPACT WITH EXCAVATOR BUCKET, AS DIRECTED BY C.O.
4. TOP DRESS WITH COARSE RIFFLE MATERIAL AS NEEDED AND DIRECTED BY C.O. TO ADD INITIAL ROUGHNESS AND FORM A NATURAL APPEARANCE. THIS SHOULD BE DONE AT THE SAME TIME AS THE ENTIRE RIFFLE IS TOP DRESSED WITH COARSE MATERIAL.

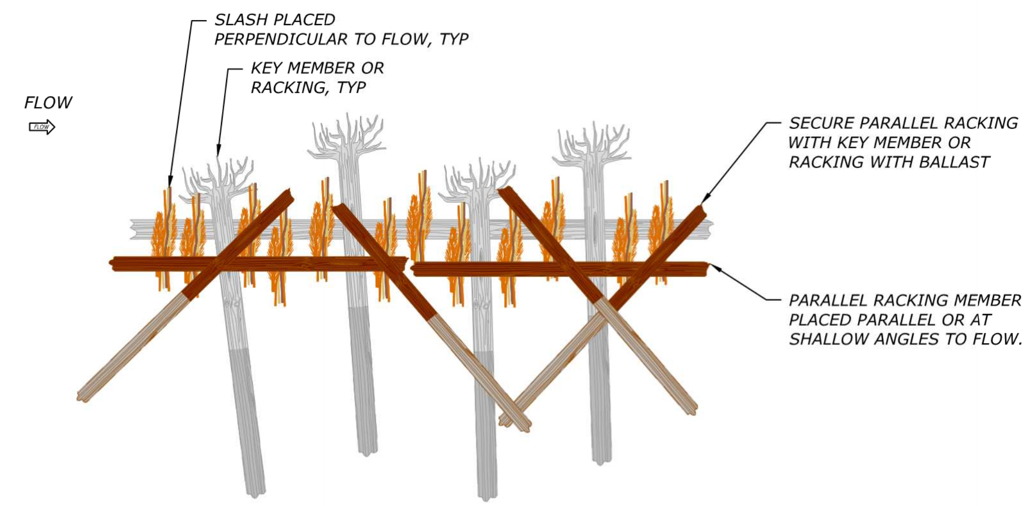
21 BOULDER PLACEMENT
NTS



BRANCHED RACKING MEMBERS

NOTES:

1. 2/3 OF BRANCHED RACKING MEMBERS SHALL BE PLACED IN PARALLEL OR AT SHALLOW ANGLES TO FLOW.
2. BRANCHED RACKING MEMBERS SHALL BE SECURED BY KEY MEMBER OR RACKING MEMBER WITH BALLAST.



PARALLEL RACKING MEMBERS

NOTES:

1. RACKING MEMBER PLACED IN PARALLEL OR AT SHALLOW ANGLES TO FLOW SHALL BE SECURED BY KEY MEMBER OR RACKING MEMBER WITH BALLAST.
2. APPROXIMATE RATIO OF PERPENDICULAR TO PARALLEL RACKING MEMBERS SHALL BE 2:1.
3. PARALLEL RACKING MEMBERS SHALL BE VARIED IN VERTICAL PLANE BY WEAVING IT IN BETWEEN PLACED LOGS, FILLING VOIDS, ETC. AT EACH STEP THROUGHOUT CONSTRUCTION AS DIRECTED BY THE CONTRACTING OFFICER

GENERAL RACKING AND SLASH NOTES:

1. RACKING, SLASH, AND LIVE CUTTINGS SHALL BE INCORPORATED INTO THE STRUCTURE BY WEAVING IT IN BETWEEN PLACED LOGS, FILLING VOIDS, ETC. AT EACH STEP THROUGHOUT CONSTRUCTION AS DIRECTED BY THE CONTRACTING OFFICER.
2. ALL EXPOSED ENDS OF RACKING SHALL BE BROKEN AND NOT SAW CUT TO APPEAR NATURAL.
3. RACKING AND SLASH PLACEMENT MAY BE ADJUSTED IN THE FIELD BY THE CONTRACTING OFFICER TO PROVIDE VARIABILITY FROM STRUCTURE TO STRUCTURE.

22 RACKING PLACEMENT
NTS

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CHESNIMNUS CREEK - WILLIAMS RESTORATION DESIGN

DRAFT 80% DESIGN DRAWINGS

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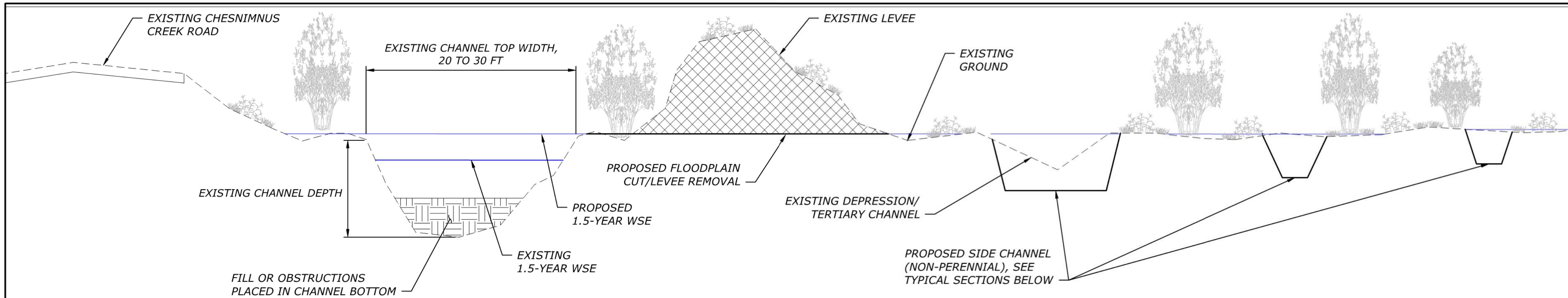
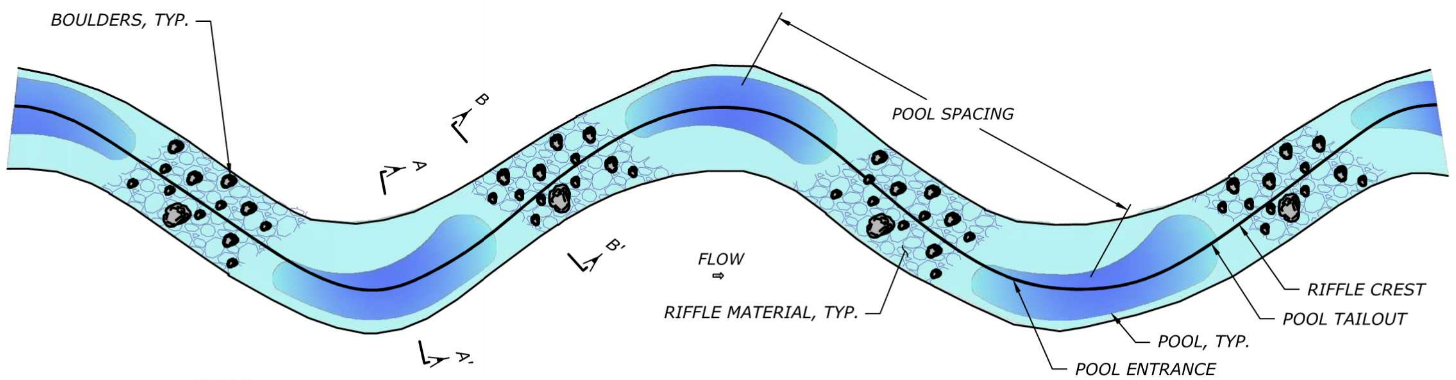
DETAILS

BOULDER AND RACKING PLACEMENT

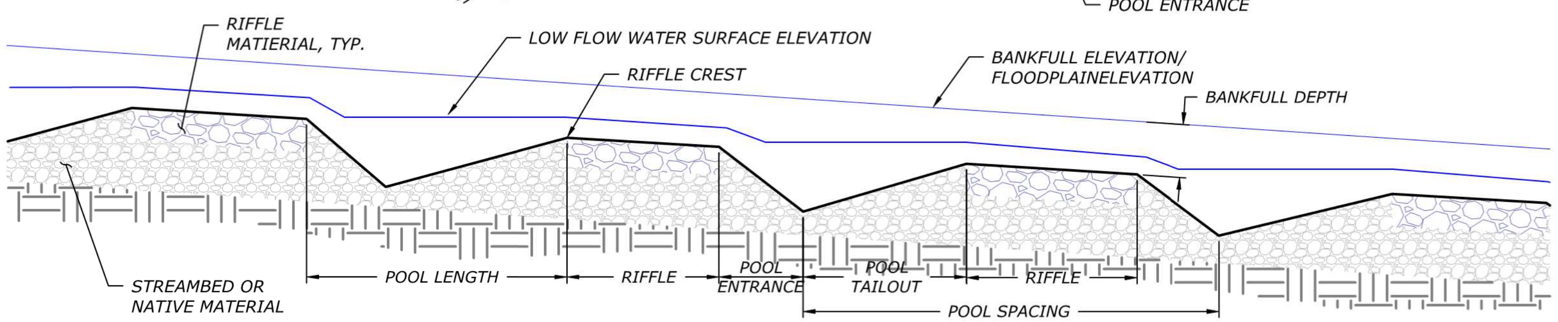
DRAWING NO.
D15
SHEET 89 OF 94

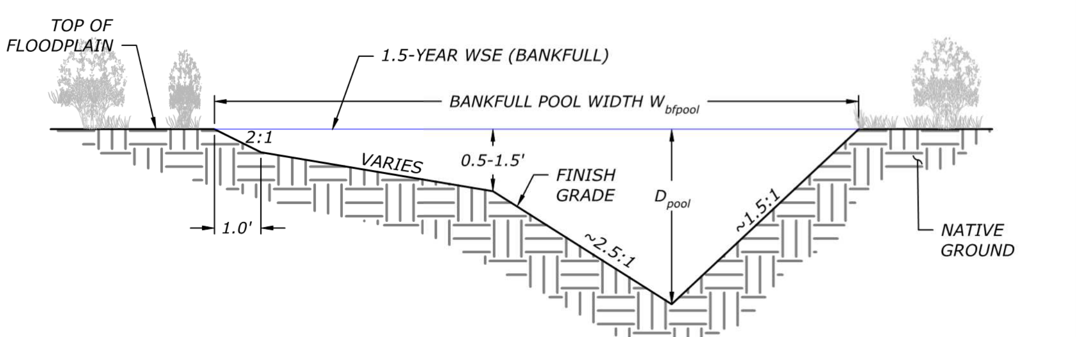


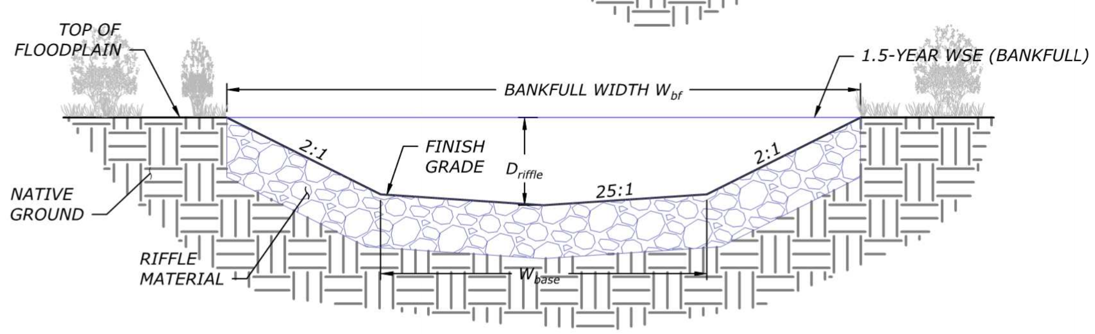


NOTES:

1. CHANNELS ARE CURRENTLY GRADED WITH RIFFLE SECTION. POOL SECTIONS SHALL BE EXCAVATED BY THE CONTRACTOR BASED ON TYPICAL SECTIONS AND TYPICAL DIMENSIONLESS RATIOS FOR POOL DEPTH, POOL WIDTH, ETC.. POOLS SHALL OCCUR ALONG THE OUTSIDE OF BENDS WITH THE MAXIMUM DEPTH OCCURRING APPROXIMATELY 2/3RDS OF THE WAY THROUGH THE BEND.
2. THE EXISTING MAIN CHANNEL IS TO BE ABANDONED, PARTIALLY OR FULLY FILLED, OR BLOCKED TO PROVIDE HIGHER DEGREE OF CERTAINTY OF SEASONAL CHANNEL ESTABLISHED AND MAINTAINED.
3. PROPOSED SIDE CHANNELS ARE DESIGNED TO BE NON-PERENNIAL, ACTIVATING AT AND ABOVE WINTER AVERAGE FLOW.
4. TERTIARY CHANNELS WILL BE CREATED AS A RESULT OF RESTORATION ACTIVITIES AND MAY BE ENHANCED WITH STRATEGIC PLACEMENTS OF STRUCTURE/ROUGHNESS ELEMENTS. THESE CHANNELS PROVIDE A LOW DEGREE OF CERTAINTY OF PERENNIAL CHANNEL ESTABLISHMENT.
5. ALL PROPOSED EXCAVATED CHANNELS MAY INCLUDE POOL AND RIFFLE HABITAT UNITS AND ENGINEERED BANK STRUCTURE/ROUGHNESS ELEMENTS (BANK TREATMENTS USING NATURAL MATERIALS SUCH AS WOODY DEBRIS, COIR FABRIC, AND RIPARIAN PLANTINGS OR WOOD HABITAT STRUCTURES). REFER TO THE DETAILS ON DRAWINGS ## FOR PROPOSED ELEMENTS.







23 TYPICAL SECTIONS
NTS

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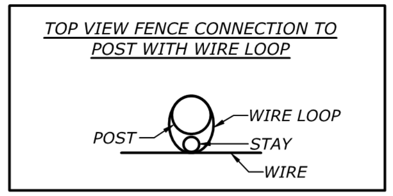
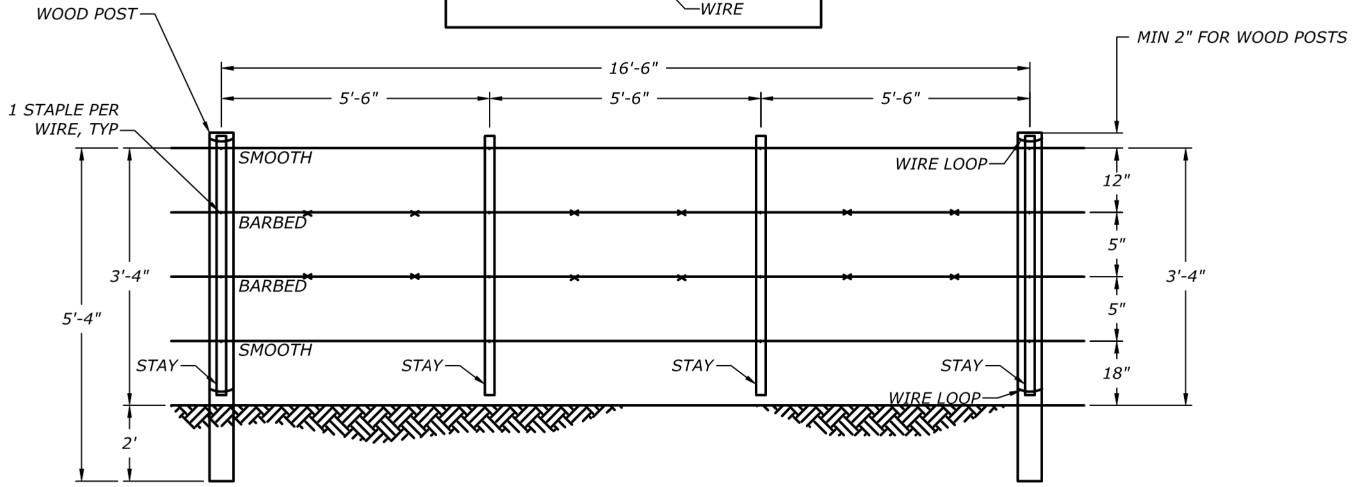
DETAILS

TYPICAL SECTIONS

DRAWING NO.
D16

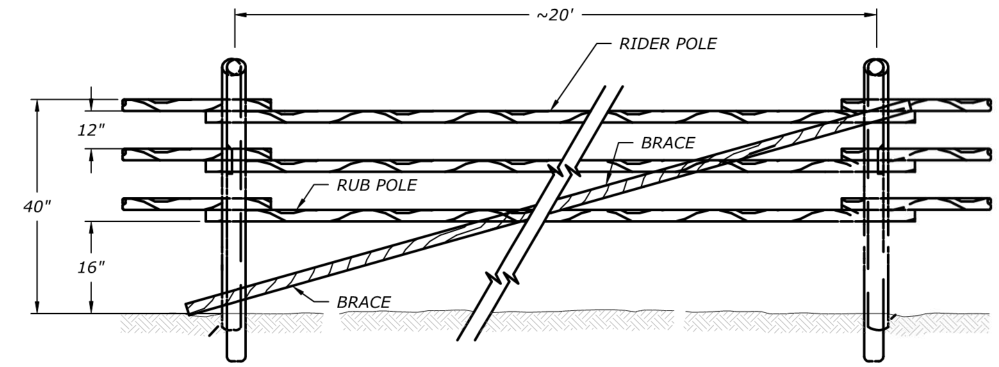


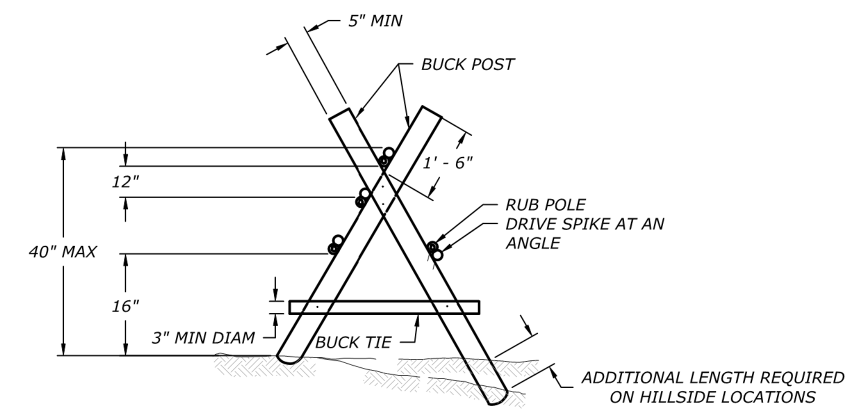


WILDLIFE FRIENDLY LAYDOWN BARB-WIRE FENCING NOTES:

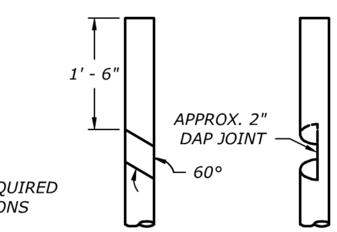
1. WOOD AND METAL POSTS TO BE ALTERNATED.
2. WOOD POSTS: 4" MIN DIAMETER, 5'-6" MIN LENGTH, 2' MIN EMBEDMENT DEPTH, TREATED.
3. BARBED WIRE: 2-TWISTED STRANDS OF 12.5-GAUGE STEEL BARBED WIRE OR 15.5-GAUGE HIGH TENSILE BARBED WIRE WITH CLASS 3 GALVANIZING.
3. SMOOTH WIRE: 2-TWISTED STRANDS OF 12.5-GAUGE STEEL BARBED WIRE OR 15.5-GAUGE HIGH TENSILE BARBED WIRE WITH CLASS 3 GALVANIZING.
4. PLATE AND PAINTED WITH A WEATHER RESISTANT PAINT FOR STEEL, ENAMELED AND BAKED, OR HOT DIP GALVANIZED.
5. BRACES ARE REQUIRED AT ALL CORNERS, GATES, PULL, AND END ASSEMBLIES.
6. HORIZONTAL BRACING IS REQUIRED AT ALL PULL ASSEMBLIES AND MUST BE INSTALLED EVERY 600' MAX.
7. HORIZONTAL CORNER ASSEMBLY SHALL BE USED WHENEVER THE HORIZONTAL ALIGNMENT CHANGES MORE THAN 15 DEGREES AND OR WHERE VERTICAL ALIGNMENT CHANGE IS MORE THAN 15 DEGREES.
8. FENCING WIRE TO BE STAPLED TO FENCE STAYS.
9. FENCE STAYS AT POSTS TO BE CONNECTED TO POST WITH WIRE LOOP, SEE TOP VIEW ABOVE.

24 WILDLIFE FRIENDLY LAYDOWN FENCING
NTS





BUCK & 4-POLE FENCE



BUCK POST JOINT DETAIL

NOTES:
1. BOTH I
TO BE N
SHOWN

NOTES:

1. FULLY-PENETRATED RINGSHANK BENT ON BACKSIDE SHALL BE USED AS FASTENERS. TWO SPIKES SHALL BE USED TO FASTEN BUCK POSTS TOGETHER. ONE SPIKE SHALL BE USED TO FASTEN POLES, BRACES & BUCK TIES TO BUCK POSTS.
2. POLES, BRACES, TIES, & BUCK POSTS SHALL BE OF MATERIAL AS SHOWN IN THE SPECIFICATIONS.
3. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS INCLUDING GATES AND WILDLIFE CROSSING MODIFICATIONS.
4. WILDLIFE CROSSING TO BE EVERY 300-FT, UNLESS OTHERWISE SPECIFIED. WILDLIFE CROSSINGS IS A BOTTOM RAIL WITH A MINIMUM OF 16" ABOVE GROUND, DROPPED TOP RAIL IN JACKLEG.

25 WILDLIFE FRIENDLY JACKRAIL FENCING
NTS

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CHESNIMNUS CREEK - WILLIAMS RESTORATION DESIGN

DRAFT 80% DESIGN DRAWINGS

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WILDLIFE FRIENDLY FENCING

DRAWING NO.
D17
SHEET 91 OF 94

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CROSS SECTIONS - VALLEY SECTIONS KEY MAP

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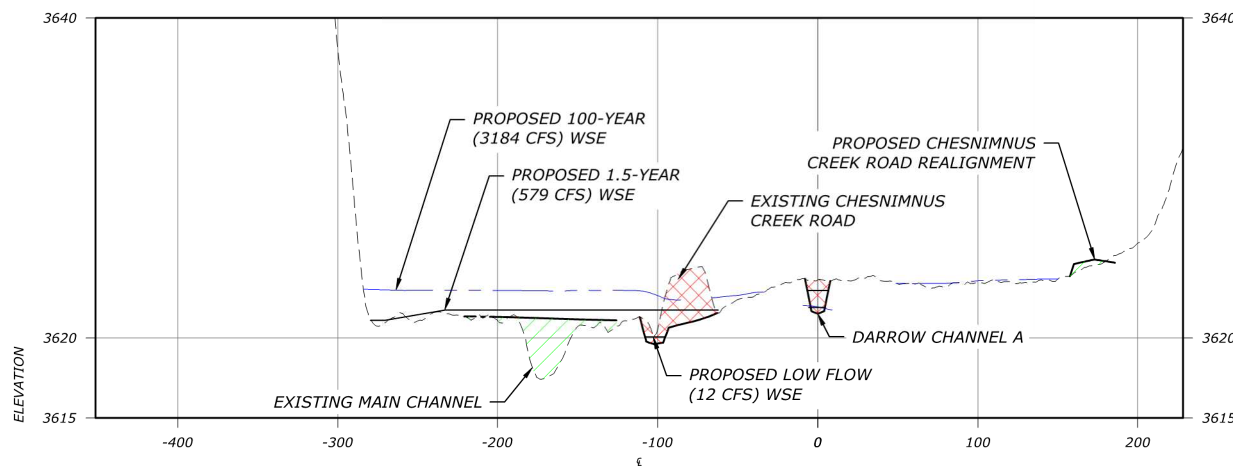
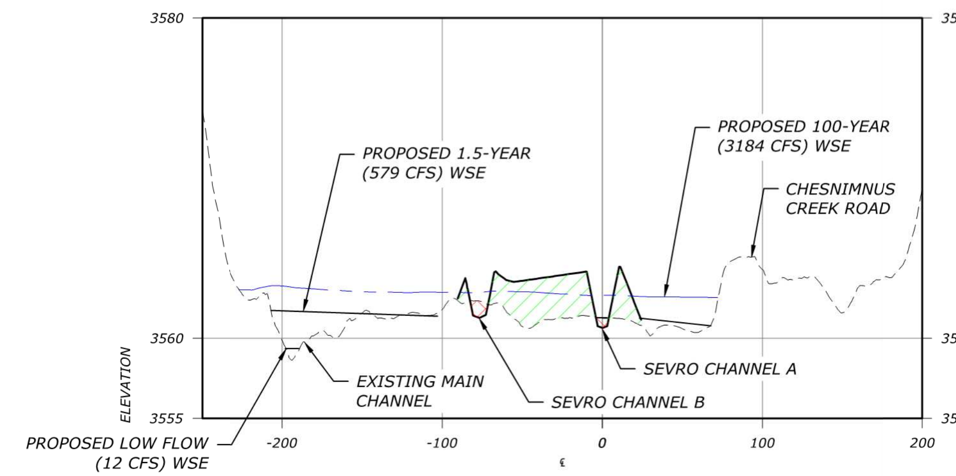
CROSS SECTIONS

VALLEY SECTIONS KEY MAP

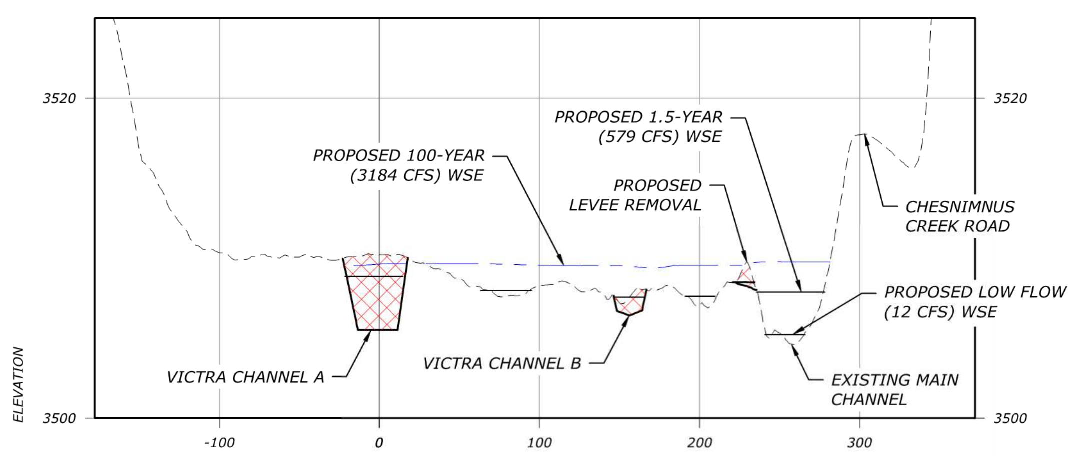
DRAWING NO.
XS1
SHEET 92 OF 94



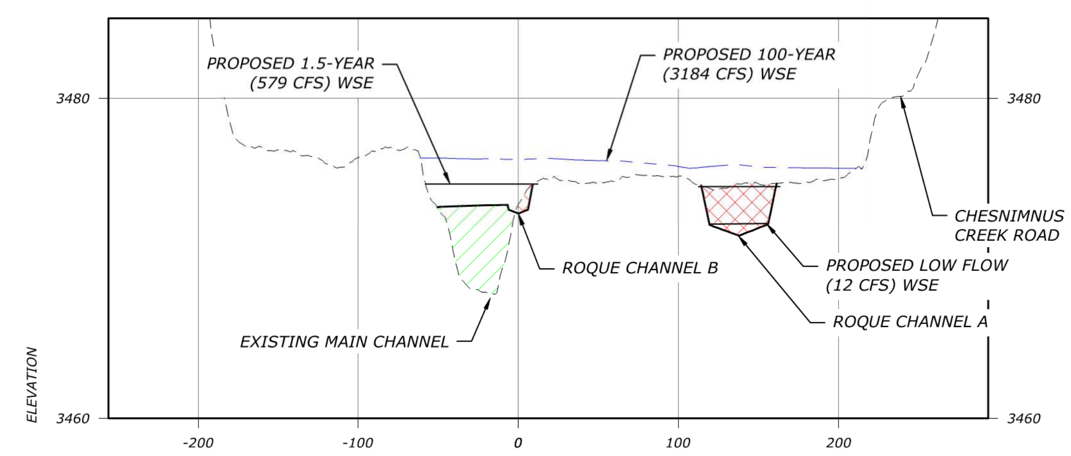
VALLEY CROSS SECTION A-A'



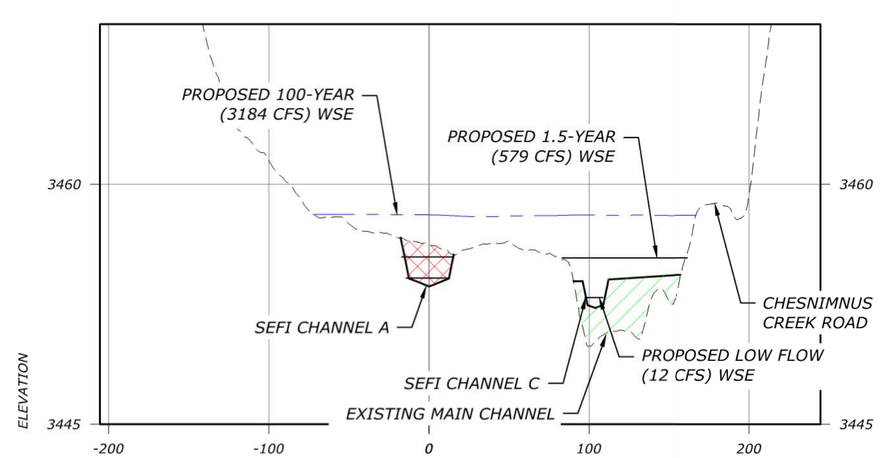
VALLEY CROSS SECTION B-B'



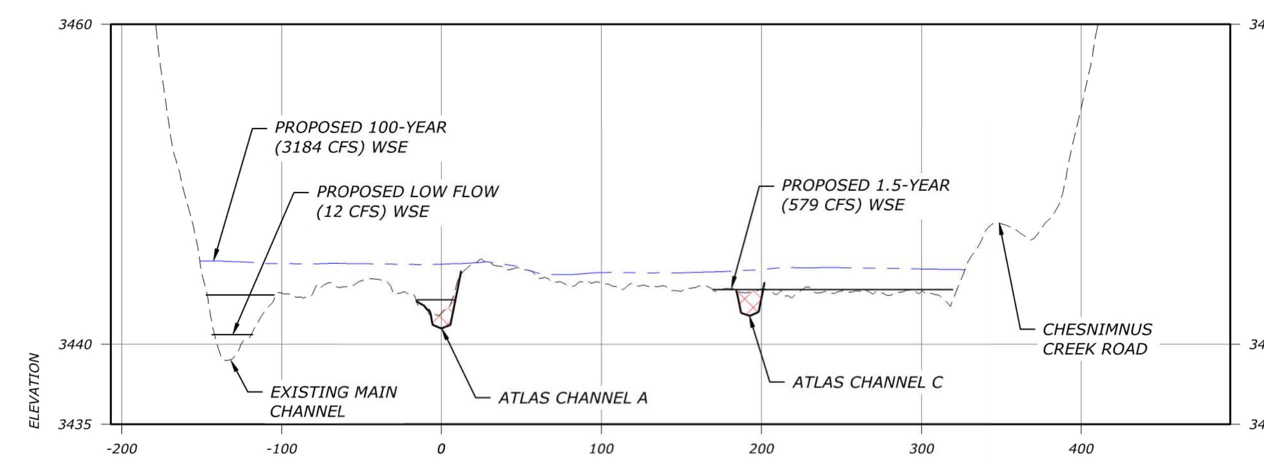
VALLEY CROSS SECTION C-C'



VALLEY CROSS SECTION D-D'



VALLEY CROSS SECTION E-E'



VALLEY CROSS SECTION F-F'

LEGEND

- EXISTING GRADE
- FINISHED GRADE
- PROPOSED WSE (LOW FLOW, 1.5-YR, & 100-YR)
- CUT
- FILL

HORIZONTAL SCALE
60 0 60 120 180
SCALE 1"=60'

VERTICAL SCALE
6 0 6 12 18
SCALE 1"=6'

CROSS SECTIONS - VALLEY CROSS SECTIONS

Applied Science & Engineering

NEZ PERCE TRIBE TREATY OF 1855

CHESNIMNUS CREEK - WILLIAMS RESTORATION DESIGN

DRAFT 80% DESIGN DRAWINGS

FOR NEZ PERCE TRIBE
CHESNIMNUS CREEK, GRANDE RONDE RIVER BASIN, OREGON
WALLOWA COUNTY, OREGON

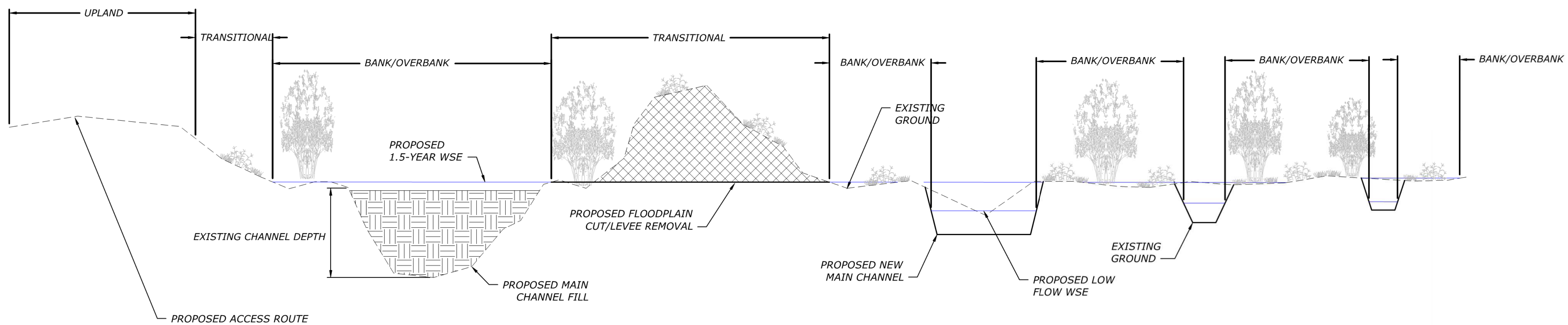
WORKING DRAFT FOR REVIEW AND REVISION

DATE: JULY, 2025
DESIGNED: MP, IB, JF, ZS, SB
APPROVED: JF

DRAWING NAME
CROSS SECTIONS

VALLEY CROSS SECTIONS

DRAWING NO.
XS2



1 TYPICAL REVEGETATION SECTION
NTS

Seed mixes

COMMON NAME	SCIENTIFIC NAME	PLS* lbs./AC
Bank/ Overbank		
dagger-leaf rush	*Juncus ensifolius*	4
smallwing sedge	*Carex microptera*	4
Geyer's sedge	*Carex geyeri*	2
panicled bulrush	*Scirpus microcarpus*	2
bigleaf sedge	*Carex amplifolia*	2
woolly sedge	*Carex pellita*	2
Transitional		
COMMON NAME	**SCIENTIFIC NAME**	**PLS* lbs./AC**
bluebunch wheatgrass	*Pseudoroegneria spicata*	16
Idaho fescue	*Festuca idahoensis*	8
Sandberg's bluegrass	*Poa secunda*	4
common yarrow	*Achillea millefolium*	1
Upland		
COMMON NAME	**SCIENTIFIC NAME**	**PLS* lbs./AC**
bluebunch wheatgrass	*Pseudoroegneria spicata*	16
Idaho fescue	*Festuca idahoensis*	8
Sandberg's bluegrass	*Poa secunda*	4
common yarrow	*Achillea millefolium*	1

Live plants

COMMON NAME	SCIENTIFIC NAME	TYPE	SIZE	SPACING (FT) (OC)
Bank/ Overbank				
red osier dogwood	*Cornus sericea ssp. sericea*	Potted	1 gal	4
thinleaf alder	*Alnus incana ssp. tenuifolia*	Potted	1 gal	4
water birch	*Betula occidentalis*	Potted	1 gal	4
coyote willow	*Salix exigua*	Live stake	1/2 to 1-1/2" dia	4
peachleaf willow	Salix amygdaloides	Live stake	1/2 to 1-1/2" dia	4
Scouler willow	*Salix scouleriana*	Live stake	1/2 to 1-1/2" dia	4
Bebb's willow	Salix bebbiana	Live stake	1/2 to 1-1/2" dia	4
Transitional				
COMMON NAME	**SCIENTIFIC NAME**	**TYPE**	**SIZE**	**SPACING (FT) (OC)**
Woods' rose	*Rosa woodsii*	Potted	1 gal	6
common snowberry	*Symphoricarpos albus*	Potted	1 gal	6
black hawthorn	*Crataegus douglasii*	Potted	1 gal	6
Scouler willow	*Salix scouleriana*	Potted	1 gal	6
Upland				
COMMON NAME	**SCIENTIFIC NAME**	**TYPE**	**SIZE**	**SPACING (FT) (OC)**
ponderosa pine	*Pinus ponderosa*	Potted	1 gal	18

Rio Applied Science & Engineering

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DRAWING NAME
REVEGETATION
PLANTING AND SEEDING

DRAWING NO.
L1
SHEET 94 OF 94

FILE: R:\PROJECTS\LOWER_GRANDE_RONDE_HUC6\CHESNIMNUS_CREEK_NPT\CAD\PRODUCTION\CHESNIMNUS-NPT-DETAILS.DWG SAVED BY: SAM BOX PLOT DATE: 7/30/2025 7:26 PM