EXISTING DAM TO BE REMOVED. ROCK SHALL BE SALVAGED FOR REUSE FOR ACCESS ROADS AND LARGE WOOD STRUCTURES.

CONTRACTOR SHALL REARRANGE LARGE ROCK AND ADD LARGE WOOD GRADE CONTROL IN THIS AREA.

EXISTING SPILLWAY TO BE REMOVED.

EXISTING SPILLWAY TO BE REMOVED.

EXISTING SPILLWAY TO BE REMOVED.

LARGE WOOD GRADE CONTROL NOT SHOWN ON PROPOSED PROFILE FOR CLARITY. CONTRACTOR SHALL INSTALL LARGE WOOD GRADE CONTROL PER SHEET 33. ROUGHENED CHANNEL FISH PASSAGE CHANNEL SHALL BE CONSTRUCTED THROUGH DAM FOOTPRINT. CONTRACTOR SHALL USE LARGE WOOD AND SALVAGED LARGE ROCK AT THE DIRECTION OF THE OWNER.

EXISTING DAM TO BE REMOVED. ROCK SHALL BE SALVAGED FOR REUSE FOR ACCESS ROADS AND LARGE WOOD STRUCTURES.

CONTRACTOR SHALL REARRANGE LARGE ROCK AND ADD LARGE WOOD GRADE CONTROL IN THIS AREA.

TIE INTO EXISTING WILDBOY CREEK.

NOTES:
ALL EXCAVATION CUT AND FILLS ARE PERMANENT.
ALL CROSS-SECTIONS ARE ORIENTED LEFT TO RIGHT LOOKING DOWNSTREAM.

LEGEND
- EXISTING GRADE
- ANTICIPATED DAM SUBGRADE
- EXISTING DAM TO BE REMOVED
- DAM FOUNDATION MATERIAL

PROFILE VIEW - DAM REMOVAL STA. 39+00 TO STA. 41+29

CROSS-SECTION - DAM REMOVAL STA. 40+16

CROSS-SECTION - DAM REMOVAL STA. 40+41

CROSS-SECTION - DAM REMOVAL STA. 40+67
NOTES:
SPECIFIC LOCATION, ALIGNMENT, AND ELEVATIONS OF LOGS, BOULDERS ARE SUBJECT TO CHANGE BASED ON FIELD CONDITIONS, MATERIAL SIZE AND STABILITY REQUIREMENTS.

IF DISCRETE BEDROCK DROPS ARE ENCOUNTERED IN RESERVOIR CHANNELS, LARGE WOOD QUANTITIES SHALL REMAIN THE SAME, BUT SOME LARGE WOOD LOCATIONS WILL CHANGE TO BACKWATER THE BEDROCK DROP WITH LOG AND ROCK STEPS THAT ARE LESS THAN 8 INCHES IN HEIGHT.

ALL EXCAVATION CUT AND FILLS ARE PERMANENT. SEE SHEET 24 FOR AREAS AND QUANTITIES.

THE CONCRETE APRON AT THE LAST 30 FEET OF THE SPILLWAY SHALL REMAIN INTACT AS A HISTORICAL REMNANT.

PLACED LWM (SEE DETAIL SHEETS 37-40)

PLACED FELLED TREES INTO LARGE WOOD JAMS (LWM)

SAVAGED DAM ROCK

DELTAIC GRAVELS

LEGEND

PROPOSED TRIBUTARIES

EXISTING GRADING

CHANNEL CENTERLINE

PROPOSED GRADING

PLACED FELLED TREES INTO LARGE WOOD JAMS (LWM)

SAVAGED DAM ROCK

DELTAIC GRAVELS

TEMPORARY ACCESS ROADS

STRAWBALES

SLASH

LIMITS OF DISTURBANCE

ORDINARY HIGH WATER (OHW)
NOTES:
ALL EXCAVATION CUT AND FILLS ARE
PERMANENT.
ALL CROSS-SECTIONS ARE ORIENTED LEFT
TO RIGHT LOOKING DOWNSTREAM.
EXISTING DAM MATERIAL TO BE
REMOVED, SORTED AND REPLACED WILL
PROVIDE AN ARMOR LAYER WITH LARGER
ROCK ALONG CHANNEL BOUNDARIES.

LEGEND

EXISTING GRADE
ORDINARY HIGH WATER (OHW)
ANTICIPATED GRADE
ANTICIPATED DAM SUBGRADE
ACCESS ROAD SALVAGED ROCK
EXISTING DAM MATERIAL TO BE REMOVED,
SORTED AND REPLACED
DAM FOUNDATION MATERIAL
REGRADED SPILLWAY
FILL MAY BE REQUIRED
DEPENDING ON BEDROCK INTERFACE AND VOLUME
BALANCE

EXISTING DAM TO BE
REMOVED. ROCK SHALL BE
SALVAGED FOR REUSE FOR
ACCESS ROADS AND LARGE
WOOD STRUCTURES

EXISTING DAM TO BE
REMOVED. ROCK SHALL BE
SALVAGED FOR REUSE FOR
ACCESS ROADS AND LARGE
WOOD STRUCTURES

EXISTING DAM TO BE
REMOVED. ROCK SHALL BE
SALVAGED FOR REUSE FOR
ACCESS ROADS AND LARGE
WOOD STRUCTURES

EXISTING DAM TO BE
REMOVED. ROCK SHALL BE
SALVAGED FOR REUSE FOR
ACCESS ROADS AND LARGE
WOOD STRUCTURES

SALVAGE ALL EXISTING ROCK
LOCATED WITHIN THE SPILLWAY FOR
REUSE IN LARGE WOOD STRUCTURES

SALVAGE ALL EXISTING ROCK
LOCATED WITHIN THE SPILLWAY FOR
REUSE IN LARGE WOOD STRUCTURES

SALVAGE ALL EXISTING ROCK
LOCATED WITHIN THE SPILLWAY FOR
REUSE IN LARGE WOOD STRUCTURES

SALVAGE ALL EXISTING ROCK
LOCATED WITHIN THE SPILLWAY FOR
REUSE IN LARGE WOOD STRUCTURES

WILDBOY CREEK
(SEE SHEETS 57-76)

WILDBOY CREEK
(SEE SHEETS 57-76)

WILDBOY CREEK
(SEE SHEETS 57-76)
CROSS-SECTION - DAM REMOVAL STA. 40+16

EXISTING SPILLWAY TO BE REMOVED AND REGRADED

SAVAGE ALL EXISTING ROCK LOCATED WITHIN THE SPILLWAY FOR REUSE IN LARGE WOOD STRUCTURES

FILL MAY BE REQUIRED DEPENDING ON BEDROCK INTERFACE AND VOLUME BALANCE

EXISTING DAM TO BE REMOVED. ROCK SHALL BE SALVAGED FOR REUSE FOR ACCESS ROADS AND LARGE WOOD STRUCTURES

WILDBOY CREEK (SEE SHEETS 57-76)

CROSS-SECTION - DAM REMOVAL STA. 40+41

EXISTING SPILLWAY TO BE REMOVED AND REGRADED

SAVAGE ALL EXISTING ROCK LOCATED WITHIN THE SPILLWAY FOR REUSE IN LARGE WOOD STRUCTURES

FILL MAY BE REQUIRED DEPENDING ON BEDROCK INTERFACE AND VOLUME BALANCE

EXISTING DAM TO BE REMOVED. ROCK SHALL BE SALVAGED FOR REUSE FOR ACCESS ROADS AND LARGE WOOD STRUCTURES

WILDBOY CREEK (SEE SHEETS 57-76)

CROSS-SECTION - DAM REMOVAL STA. 40+67

EXISTING SPILLWAY TO BE REMOVED. ROCK SHALL BE SALVAGED FOR REUSE FOR ACCESS ROADS AND LARGE WOOD STRUCTURES

TIE INTO EXISTING WILDBOY CREEK

WILDBOY CREEK (SEE SHEETS 57-76)

LEGEND

- EXISTING GRADE
- ORDINARY HIGH WATER (OHW)
- ANTICIPATED GRADE
- ANTICIPATED DAM SUBGRADE
- ACCESS ROAD SALVAGED ROCK
- LARGE WOOD
- EXISTING DAM MATERIAL TO BE REMOVED, SORTED AND REPLACED
- DAM FOUNDATION MATERIAL
- REGRADED SPILLWAY

NOTES:

- ALL EXCAVATION CUT AND FILLS ARE PERMANENT.
- ALL CROSS-SECTIONS ARE ORIENTED LEFT TO RIGHT LOOKING DOWNSTREAM.
- EXISTING DAM MATERIAL TO BE REMOVED, SORTED AND REPLACED WILL PROVIDE AN ARMOR LAYER WITH LARGER ROCK ALONG CHANNEL BOUNDARIES.

BALANCE INTERFACE AND VOLUME DEPENDING ON BEDROCK FILL MAY BE REQUIRED (SEE SHEETS 57-76)

REMOVAL AREA TO BE REMOVED, SORTED AND REPLACED WILL

EXISTING DAM TO BE REMOVED, SORTED AND REPLACED WILL PROVIDE AN ARMOR LAYER WITH LARGER ROCK ALONG CHANNEL BOUNDARIES.
RESERVOIR AND MIXING WITH ORIGINAL DAM CONSTRUCTION SPOILS. THE SOILS MIXTURE SHALL SUBSEQUENTLY BE SPREAD THROUGHOUT PROPOSED UPLAND AND RIPARIAN AREAS WITHIN THE RESERVOIR FOOTPRINT.

SALVAGED ROCK FROM EARTHEN DAM USED TO CONSTRUCT CONTENTION BERM TO BE REMOVED DURING CONSTRUCTION.

SALVAGED ROCK FROM EARTHEN DAM USED TO CONSTRUCT RESERVOIR ACCESS ROAD.

SALVAGED DAM MATERIAL TO BE REMOVED during CONSTRUCTION OF THE EAST TRIBUTARY.

RESERVOIR ACCESS ROAD DURING CONSTRUCTION OF THE EAST TRIBUTARY.

DEWATERING DITCH THROUGH SPILLWAY.

SALVAGED DAM MATERIAL TO BE REMOVED DURING CONSTRUCTION OF THE EAST TRIBUTARY.

AREA FOR DRAINING OF FINE SOILS REMOVED FROM THE BOTTOM OF THE RESERVOIR AND MIXING WITH ORIGINAL DAM CONSTRUCTION SPOILS. THE SOILS MIXTURE SHALL SUBSEQUENTLY BE SPREAD THROUGHOUT PROPOSED UPLAND AND RIPARIAN AREAS WITHIN THE RESERVOIR FOOTPRINT.

SALVAGED ROCK FROM EARTHEN DAM USED TO CONSTRUCT CONTENTION BERM TO BE REMOVED DURING CONSTRUCTION.

SALVAGED ROCK FROM EARTHEN DAM USED TO CONSTRUCT RESERVOIR ACCESS ROAD.

SALVAGED ROCK FROM EARTHEN DAM USED TO CONSTRUCT CONTENTION BERM TO BE REMOVED DURING CONSTRUCTION.

SALVAGED DAM MATERIAL TO BE REMOVED DURING CONSTRUCTION OF THE EAST TRIBUTARY.

RESERVOIR ACCESS ROAD DURING CONSTRUCTION OF THE EAST TRIBUTARY.

DEWATERING DITCH THROUGH SPILLWAY.

SALVAGED DAM MATERIAL TO BE REMOVED DURING CONSTRUCTION OF THE EAST TRIBUTARY.

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SALVAGED ROCK FROM EARTHEN DAM USED TO CONSTRUCT CONTENTION BERM TO BE REMOVED DURING CONSTRUCTION.

SALVAGED ROCK FROM EARTHEN DAM USED TO CONSTRUCT RESERVOIR ACCESS ROAD.

SALVAGED ROCK FROM EARTHEN DAM USED TO CONSTRUCT CONTENTION BERM TO BE REMOVED DURING CONSTRUCTION.

SALVAGED DAM MATERIAL TO BE REMOVED DURING CONSTRUCTION OF THE EAST TRIBUTARY.

RESERVOIR ACCESS ROAD DURING CONSTRUCTION OF THE EAST TRIBUTARY.

DEWATERING DITCH THROUGH SPILLWAY.

SALVAGED DAM MATERIAL TO BE REMOVED DURING CONSTRUCTION OF THE EAST TRIBUTARY.

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SALVAGED ROCK FROM EARTHEN DAM USED TO CONSTRUCT CONTENTION BERM TO BE REMOVED DURING CONSTRUCTION.

SALVAGED ROCK FROM EARTHEN DAM USED TO CONSTRUCT RESERVOIR ACCESS ROAD.

SALVAGED ROCK FROM EARTHEN DAM USED TO CONSTRUCT CONTENTION BERM TO BE REMOVED DURING CONSTRUCTION.

SALVAGED DAM MATERIAL TO BE REMOVED DURING CONSTRUCTION OF THE EAST TRIBUTARY.

RESERVOIR ACCESS ROAD DURING CONSTRUCTION OF THE EAST TRIBUTARY.

DEWATERING DITCH THROUGH SPILLWAY.

SALVAGED DAM MATERIAL TO BE REMOVED DURING CONSTRUCTION OF THE EAST TRIBUTARY.

AREA FOR DRAINING OF FINE SOILS REMOVED FROM THE BOTTOM OF THE RESERVOIR AND MIXING WITH ORIGINAL DAM CONSTRUCTION SPOILS. THE SOILS MIXTURE SHALL SUBSEQUENTLY BE SPREAD THROUGHOUT PROPOSED UPLAND AND RIPARIAN AREAS WITHIN THE RESERVOIR FOOTPRINT.

SALVAGED ROCK FROM EARTHEN DAM USED TO CONSTRUCT CONTENTION BERM TO BE REMOVED DURING CONSTRUCTION.

SALVAGED ROCK FROM EARTHEN DAM USED TO CONSTRUCT RESERVOIR ACCESS ROAD.

SALVAGED ROCK FROM EARTHEN DAM USED TO CONSTRUCT CONTENTION BERM TO BE REMOVED DURING CONSTRUCTION.

SALVAGED DAM MATERIAL TO BE REMOVED DURING CONSTRUCTION OF THE EAST TRIBUTARY.

RESERVOIR ACCESS ROAD DURING CONSTRUCTION OF THE EAST TRIBUTARY.

DEWATERING DITCH THROUGH SPILLWAY.

SALVAGED DAM MATERIAL TO BE REMOVED DURING CONSTRUCTION OF THE EAST TRIBUTARY.

AREA FOR DRAINING OF FINE SOILS REMOVED FROM THE BOTTOM OF THE RESERVOIR AND MIXING WITH ORIGINAL DAM CONSTRUCTION SPOILS. THE SOILS MIXTURE SHALL SUBSEQUENTLY BE SPREAD THROUGHOUT PROPOSED UPLAND AND RIPARIAN AREAS WITHIN THE RESERVOIR FOOTPRINT.

SALVAGED ROCK FROM EARTHEN DAM USED TO CONSTRUCT CONTENTION BERM TO BE REMOVED DURING CONSTRUCTION.

SALVAGED ROCK FROM EARTHEN DAM USED TO CONSTRUCT RESERVOIR ACCESS ROAD.

SALVAGED ROCK FROM EARTHEN DAM USED TO CONSTRUCT CONTENTION BERM TO BE REMOVED DURING CONSTRUCTION.

SALVAGED DAM MATERIAL TO BE REMOVED DURING CONSTRUCTION OF THE EAST TRIBUTARY.

RESERVOIR ACCESS ROAD DURING CONSTRUCTION OF THE EAST TRIBUTARY.

DEWATERING DITCH THROUGH SPILLWAY.

SALVAGED DAM MATERIAL TO BE REMOVED DURING CONSTRUCTION OF THE EAST TRIBUTARY.

AREA FOR DRAINING OF FINE SOILS REMOVED FROM THE BOTTOM OF THE RESERVOIR AND MIXING WITH ORIGINAL DAM CONSTRUCTION SPOILS. THE SOILS MIXTURE SHALL SUBSEQUENTLY BE SPREAD THROUGHOUT PROPOSED UPLAND AND RIPARIAN AREAS WITHIN THE RESERVOIR FOOTPRINT.

SALVAGED ROCK FROM EARTHEN DAM USED TO CONSTRUCT CONTENTION BERM TO BE REMOVED DURING CONSTRUCTION.

SALVAGED ROCK FROM EARTHEN DAM USED TO CONSTRUCT RESERVOIR ACCESS ROAD.

SALVAGED ROCK FROM EARTHEN DAM USED TO CONSTRUCT CONTENTION BERM TO BE REMOVED DURING CONSTRUCTION.

SALVAGED DAM MATERIAL TO BE REMOVED DURING CONSTRUCTION OF THE EAST TRIBUTARY.

RESERVOIR ACCESS ROAD DURING CONSTRUCTION OF THE EAST TRIBUTARY.

DEWATERING DITCH THROUGH SPILLWAY.

SALVAGED DAM MATERIAL TO BE REMOVED DURING CONSTRUCTION OF THE EAST TRIBUTARY.

AREA FOR DRAINING OF FINE SOILS REMOVED FROM THE BOTTOM OF THE RESERVOIR AND MIXING WITH ORIGINAL DAM CONSTRUCTION SPOILS. THE SOILS MIXTURE SHALL SUBSEQUENTLY BE SPREAD THROUGHOUT PROPOSED UPLAND AND RIPARIAN AREAS WITHIN THE RESERVOIR FOOTPRINT.

SALVAGED ROCK FROM EARTHEN DAM USED TO CONSTRUCT CONTENTION BERM TO BE REMOVED DURING CONSTRUCTION.

SALVAGED ROCK FROM EARTHEN DAM USED TO CONSTRUCT RESERVOIR ACCESS ROAD.

SALVAGED ROCK FROM EARTHEN DAM USED TO CONSTRUCT CONTENTION BERM TO BE REMOVED DURING CONSTRUCTION.

SALVAGED DAM MATERIAL TO BE REMOVED DURING CONSTRUCTION OF THE EAST TRIBUTARY.

RESERVOIR ACCESS ROAD DURING CONSTRUCTION OF THE EAST TRIBUTARY.

DEWATERING DITCH THROUGH SPILLWAY.

SALVAGED DAM MATERIAL TO BE REMOVED DURING CONSTRUCTION OF THE EAST TRIBUTARY.
PLAN VIEW - RESERVOIR ACCESS ROAD AREA AND DECOMISSIONING
TYPICAL CROSS-SECTION: RESERVOIR ACCESS ROAD

- **Existing Grade**
- **Proposed Channel Grade**
- **Impounded Sediments**
- **Salvaged Dam Material**
- **Cover Riprap Slope with 1 ft. Min. Drained and Mixed Salvaged Soils**
- **Drained and Mixed Salvaged Soils**
- **Access Road**
- **15 ft.**
- **Cover Riprap Slope with 1 ft. Min. Drained and Mixed Salvaged Soils**
- **Pack 6 in. Layer of Straw on Slope Face**
- **NOTE:** All cut and fills are permanent except where noted as temporary.

TYPICAL CROSS-SECTION: CONTAINMENT BERM

- **Existing Grade**
- **Proposed Channel Grade**
- **Impounded Sediments**
- **Salvaged Dam Material**
- **Cover Riprap Slope with 1 ft. Min. Drained and Mixed Salvaged Soils**
- **Drained and Mixed Salvaged Soils**
- **Access Road**
- **15 ft.**
- **Cover Riprap Slope with 1 ft. Min. Drained and Mixed Salvaged Soils**
- **Pack 6 in. Layer of Straw on Slope Face**
- **NOTE:** All cut and fills are permanent except where noted as temporary.

TYPICAL CROSS-SECTION: RESERVOIR ACCES ROAD DECOMISSIONING

- **Existing Grade**
- **Proposed Channel Grade**
- **Impounded Sediments**
- **Salvaged Dam Material**
- **Cover Riprap Slope with 1 ft. Min. Drained and Mixed Salvaged Soils**
- **Salvaged Rock from Access Road and Dispose of Material in Spillway. Temporary Fill, 638 yd, 2080 cy**
- **Cover Riprap Slope with 1 ft. Min. Drained and Mixed Salvaged Soils**
- **Pack 6 in. Layer of Straw on Slope Face**
- **NOTE:** All cut and fills are permanent except where noted as temporary.
NOTE: ALL EXCAVATION CUT AND FILLS ARE PERMANENT.

LEGEND:
- PROPOSED TRIBUTARIES
- PROPOSED GRADING
- EXISTING GRADING
- LIMITS OF DISTURBANCE
- CHANNEL CENTERLINE
- ORDINARY HIGH WATER (OHW)

PROFILE VIEW - NORTH TRIBUTARY

LEGEND:
- EXISTING GRADE
- PROPOSED GRADE
- DAM SUBGRADE
- ANTICIPATED GRADE

PROPOSED PROFILE FOR CLARITY.

NOTE: LOG STEPS NOT SHOWN ON CONTRACTOR SHALL INSTALL LOG STEPS PER SHEET 40.

PLAN VIEW

PROFILE VIEW
LEGEND

- PROPOSED TRIBUTARIES
- EXISTING GRADING
- CHANNEL CENTERLINE
- PROPOSED GRADING
- LARGE WOOD MATERIAL (LWM)
- SAVAGED DAM ROCK
- SAVAGED DELTAIC GRAVELS
- PLACED SLASH
- LIMITS OF DISTURBANCE
- ORDINARY HIGH WATER (OHW)

NOTE:

SPECIFIC LOCATION, ALIGNMENT, AND ELEVATIONS OF LOGS, BOULDERS ARE SUBJECT TO CHANGE BASED ON FIELD CONDITIONS MATERIAL SIZE AND STABILITY REQUIREMENTS.

IF DISCRETE BEDROCK DROPS ARE ENCOUNTERED IN RESERVOIR CHANNELS, LARGE WOOD QUANTITIES SHALL REMAIN THE SAME, BUT SOME LARGE WOOD LOCATIONS WILL CHANGE TO BACKWATER THE BEDROCK DROP WITH LOG AND ROCK STEPS THAT ARE LESS THAN 8 INCHES IN HEIGHT.

ALL EXCAVATION CUT AND FILLS ARE PERMANENT. SEE SHEET 24 FOR AREAS AND QUANTITIES.

TYPICAL CROSS-SECTION: NORTH TRIBUTARY CHANNEL GEOMETRY

NOT TO SCALE

SHEET LOCATION
NOTE: ALL EXCAVATION CUT AND FILLS ARE PERMANENT
ALL CROSS-SECTIONS ARE ORIENTED LEFT TO RIGHT LOOKING DOWNSTREAM.

LEGEND

EXISTING GRADE
ORDINARY HIGH WATER (OHW)
ANTICIPATED GRADE
ANTICIPATED DAM SUBGRADE
ACCESS ROAD
SALVAGED ROCK
EXISTING DAM TO BE REMOVED

CROSS-SECTION STA. 41+25

CROSS-SECTION STA. 42+00

CROSS-SECTION STA. 43+00

CROSS-SECTION STA. 44+00
NOTE: ALL EXCAVATION CUT AND FILLS ARE PERMANENT
ALL CROSS-SECTIONS ARE ORIENTED LEFT TO RIGHT LOOKING DOWNSTREAM.

LEGEND
- - - - EXISTING GRADE
- - - - ORDINARY HIGH WATER (OHW)
- - - - ANTICIPATED GRADE
- - - - ACCESS ROAD SALVAGED ROCK
- - - - EXISTING DAM TO BE REMOVED

CROSS-SECTION STA. 45+00

CROSS-SECTION STA. 46+00

CROSS-SECTION STA. 47+00

CROSS-SECTION STA. 48+00

CROSS-SECTION STA. 49+00

CROSS-SECTION STA. 50+00
LEGEND

PROPOSED TRIBUTARIES
EXISTING GRADING
CHANNEL CENTERLINE
PROPOSED GRADING
LIMITS OF DISTURBANCE
ORDINARY HIGH WATER (OHW)

NOTE:
ALL EXCAVATION CUT AND FILLS ARE PERMANENT. SEE SHEET 24 FOR AREAS AND QUANTITIES.

sta. = 0+00
elev = 899.200

sta. = 9+90
elev = 931.000

sta. = 4+57
elev = 911.000

NOTE: LOG STEPS NOT SHOWN ON PROPOSED PROFILE FOR CLARITY. CONTRACTOR SHALL INSTALL LOG STEPS PER SHEET 44.

CUT BACK SLOPE AND REGRAD
PORTION OF ACCESS ROAD DURING EAST TRIBUTARY CONSTRUCTION

EXISTING DAM TO BE REMOVED

EXISTING GRADE

EXISTING KWONEESUM DAM TO BE REMOVED (SEE SHEETS 32-35)

EXISTING KWONEESUM DAM TO BE REMOVED

EXISTING SPILLWAY TO BE REMOVED

EAST TRIBUTARY CREEK

CAMP KWONEESUM

WILDBOY CREEK (SEE SHEETS 57-79)

PROFILE VIEW - EAST TRIBUTARY
TYPICAL CROSS-SECTION: EAST TRIBUTARY CHANNEL GEOMETRY

NOTE:
- SPECIFIC LOCATION, ALIGNMENT, AND ELEVATIONS OF LOGS, BOULDERS ARE SUBJECT TO CHANGE BASED ON FIELD CONDITIONS, MATERIAL SIZE AND STABILITY REQUIREMENTS.
- IF DISCRETE BEDROCK DROPS ARE ENCOUNTERED IN RESERVOIR CHANNELS, LARGE WOOD QUANTITIES SHALL REMAIN THE SAME, BUT SOME LARGE WOOD LOCATIONS WILL CHANGE TO BACKWATER THE BEDROCK DROP WITH LOG AND ROCK STEPS THAT ARE LESS THAN 8 INCHES IN HEIGHT.
- ALL EXCAVATION CUT AND FILLS ARE PERMANENT. SEE SHEET 24 FOR AREAS AND QUANTITIES.

LEGEND

- PROPOSED TRIBUTARIES
- EXISTING GRADING
- CHANNEL CENTERLINE
- PROPOSED GRADING
- LARGE WOOD MATERIAL (LWM)
- SALVAGED DAM ROCK
- SALVAGED DELTIC GRAVELS
- PLACED SLASH
- LIMITS OF DISTURBANCE
- ORDINARY HIGH WATER (OHW)

NOTE:
- SPECIFIC LOCATION, ALIGNMENT, AND ELEVATIONS OF LOGS, BOULDERS ARE SUBJECT TO CHANGE BASED ON FIELD CONDITIONS, MATERIAL SIZE AND STABILITY REQUIREMENTS.
- IF DISCRETE BEDROCK DROPS ARE ENCOUNTERED IN RESERVOIR CHANNELS, LARGE WOOD QUANTITIES SHALL REMAIN THE SAME, BUT SOME LARGE WOOD LOCATIONS WILL CHANGE TO BACKWATER THE BEDROCK DROP WITH LOG AND ROCK STEPS THAT ARE LESS THAN 8 INCHES IN HEIGHT.
- ALL EXCAVATION CUT AND FILLS ARE PERMANENT. SEE SHEET 24 FOR AREAS AND QUANTITIES.
NOTE:
ALL EXCAVATION CUT AND FILLS ARE PERMANENT
ALL CROSS-SECTIONS ARE ORIENTED LEFT TO RIGHT LOOKING DOWNSTREAM.

LEGEND
- EXISTING GRADE
- ORDINARY HIGH WATER (OHW)
- ANTICIPATED GRADE
- ACCESS ROAD SALVAGED ROCK
- EXISTING DAM TO BE REMOVED

CROSS-SECTION STA. 0+60
CROSS-SECTION STA. 2+00
CROSS-SECTION STA. 3+00
CROSS-SECTION STA. 4+00
NOTE:
ALL EXCAVATION CUT AND FILLS ARE PERMANENT
ALL CROSS-SECTIONS ARE ORIENTED LEFT TO RIGHT LOOKING DOWNSTREAM.

LEGEND
- EXISTING GRADE
-ORDINARY HIGH WATER (OHW)
-ANTICIPATED GRADE
-ACCESS ROAD SALVAGED ROCK
-EXISTING DAM TO BE REMOVED

CROSS-SECTION STA. 5+00

CROSS-SECTION STA. 6+00

CROSS-SECTION STA. 7+00
LEGEND

- PROPOSED TRIBUTARIES
- EXISTING GRADING
- CHANNEL CENTERLINE
- PROPOSED GRADING
- LIMITS OF DISTURBANCE
- ORDINARY HIGH WATER (OHW)

NOTE:
ALL EXCAVATION CUT AND FILLS ARE PERMANENT. SEE SHEET 24 FOR AREAS AND QUANTITIES.

PLAN VIEW

PROPOSED TRIBUTARIES
EXISTING GRADING
CHANNEL CENTERLINE
PROPOSED GRADING
LIMITS OF DISTURBANCE
ORDINARY HIGH WATER (OHW)

LEGEND

PROFILE VIEW - WEST TRIBUTARY

LOG STEPS NOT SHOWN ON PROPOSED PROFILE FOR CLARITY. CONTRACTOR SHALL INSTALL LOG STEPS PER SHEET 48.

PROFILE VIEW - WEST TRIBUTARY

NOTE:
ALL EXCAVATION CUT AND FILLS ARE PERMANENT. SEE SHEET 24 FOR AREAS AND QUANTITIES.
PLAN VIEW

LEGEND

- PROPOSED TRIBUTARIES
- EXISTING GRADING
- CHANNEL CENTERLINE
- PROPOSED GRADING
- LARGE WOOD MATERIAL (LWM)
- SALVAGED DAM ROCK
- SALVAGED DELTAIC GRAVELS
- PLACED SLASH
- LIMITS OF DISTURBANCE
- ORDINARY HIGH WATER (OHW)

NOTES:

SPECIFIC LOCATION, ALIGNMENT, AND
ELEVATIONS OF LOGS, BOULDERS ARE
SUBJECT TO CHANGE BASED ON FIELD
CONDITIONS, MATERIAL SIZE AND
STABILITY REQUIREMENTS.

IF DISCRETE BEDROCK DROPS ARE
ENCOUNTERED IN RESERVOIR
CHANNELS, LARGE WOOD QUANTITIES
SHALL REMAIN THE SAME, BUT SOME
LARGE WOOD LOCATIONS WILL CHANGE
to backwater the bedrock drop
with log and rock steps that are
LESS THAN 8 INCHES IN HEIGHT.

ALL EXCAVATION CUT AND FILLS ARE
PERMANENT. SEE SHEET 24 FOR AREAS
AND QUANTITIES.

TYPICAL CROSS-SECTION: WEST TRIBUTARY CHANNEL GEOMETRY

EXISTING GRADE

12 FT.

8 FT.

2 FT.

ANTICIPATED CHANNEL GEOMETRY THROUGH
WEST TRIBUTARY

IMPOUNDED SEDIMENTS

NOT TO SCALE
NOTES:
ALL EXCAVATION CUT AND
FILLS ARE PERMANENT.
ALL CROSS-SECTIONS ARE
ORIENTED LEFT TO RIGHT
LOOKING DOWNSTREAM.

LEGEND

EXISTING GRADE
ORDINARY HIGH WATER (OHW)
ANTICIPATED GRADE
ACCESS ROAD SALVAGED ROCK
EXISTING DAM TO BE REMOVED

NOTES:
ALL EXCAVATION CUT AND
FILLS ARE PERMANENT.
ALL CROSS-SECTIONS ARE
ORIENTED LEFT TO RIGHT
LOOKING DOWNSTREAM.
NOTES:
ALL EXCAVATION CUT AND FIllS ARE PERMANENT.
ALL CROSS-SECTIONS ARE ORIENTED LEFT TO RIGHT LOOKING DOWNSTREAM.

LEGEND
- EXISTING GRADE
- ORDINARY HIGH WATER (OHW)
- ANTICIPATED GRADE
- ACCESS ROAD SALVAGED ROCK

1 CROSS-SECTION STA. 5+00

2 CROSS-SECTION STA. 6+00

3 CROSS-SECTION STA. 7+00

4 CROSS-SECTION STA. 8+00
TYPICAL CROSS-SECTION THROUGH DAM AREA WITH LARGE WOOD

1. TYPICAL CROSS-SECTION THROUGH DAM AREA WITH LARGE WOOD

2. NORTH TRIBUTARY DAM AREA WITH LARGE WOOD

3. TYPICAL CROSS-SECTION THROUGH EAST TRIBUTARY WITH LARGE WOOD

4. TYPICAL CROSS-SECTION THROUGH WEST TRIBUTARY WITH LARGE WOOD

NOTE:
ALL EXCAVATION CUT AND FILLS ARE PERMANENT. SEE SHEET 24 FOR AREAS AND QUANTITIES.
LEGEND

- Proposed Tributaries
- Existing Grading
- Channel Centerline
- Proposed Grading
- Placed Felled Trees into Large Wood Jams (LWM)
- Floodplain Wood
- Existing Spillway Footprint
- Spillway Concrete (Removed)
- Spillway Notch Ditch
- Temporary Access Roads
- Strawbales
- Slash
- Limits of Disturbance
- Ordinary High Water (OHW)
- Historic Dam Remnant Observation Deck, Stairs Railing and Deck (By Others)
- Limits of Disturbance
- Ordinary High Water (OHW)
- Excavation Shown is Outside Jurisdictional Boundaries

NOTE: Excavation shown is outside jurisdictional boundaries.

SPILLWAY CONCRETE (REMOVED)
SPILLWAY NOTCH DITCH
TEMPORARY ACCESS ROADS
STRAWBALES
SLASH
LIMITE OF DISTURBANCE
ORDINARY HIGH WATER (OHW)

PLACE FELLED TREES INTO LARGE WOOD JAMS (LWM)
FLOODPLAIN WOOD

EXHISTING GRADING

PLAN VIEW - REGRADED SPILLWAY

THE CONCRETE APRON AT THE LAST 30 FEET OF THE SPILLWAY SHALL REMAIN INTACT AS A HISTORICAL REMNANT

THE CONCRETE APRON AT THE LAST 30 FEET OF THE SPILLWAY SHALL REMAIN INTACT AS A HISTORICAL REMNANT

HISTORIC DAM REMNANT OBSERVATION DECK, STAIRS RAILING AND DECK (BY OTHERS)

BURY CONCRETE FROM DAM DEMOLITION WITH 3 FEET MINIMUM COVER WITH MIXED SOILS

EXTEND LARGE WOOD INTO UNDERCUT ROCK BENEATH EXISTING SPILLWAY

NOTES:

- TABLES
- SHEET LOCATION
- BURB CONCRETE FROM DAM DEMOLOITION WITH 3 FEET MINIMUM COVER WITH MIXED SOILS

PLAN VIEW - REGRADED SPILLWAY

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PLACE FELLED TREES INTO LARGE WOOD JAMS (LWM)
FLOODPLAIN WOOD

EXHISTING GRADING

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PLACE FELLED TREES INTO LARGE WOOD JAMS (LWM)
FLOODPLAIN WOOD

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FLOODPLAIN WOOD

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PLACE FELLED TREES INTO LARGE WOOD JAMS (LWM)
FLOODPLAIN WOOD

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PLACE FELLED TREES INTO LARGE WOOD JAMS (LWM)
FLOODPLAIN WOOD

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EXTEND LARGE WOOD INTO UNDERCUT ROCK BENEATH EXISTING SPILLWAY

NOTE: Excavation shown is outside jurisdictional boundaries.
Notes:

LEGEND

- PROPOSED TRIBUTARIES
- EXISTING GRADING
- CHANNEL CENTERLINE
- PROPOSED GRADING
- PLACED FELLED TREES INTO LARGE WOOD JAMS (LWM)
- FLOODPLAIN WOOD
- SLASH
- LIMITS OF DISTURBANCE
- ORDINARY HIGH WATER (OHW)

NOTE:

- 1% GRADE TO BE DETERMINED IN FIELD.
- ALL CROSS-SECTIONS ARE ORIENTED LEFT TO RIGHT LOOKING DOWNSTREAM.

LEGEND

- EXISTING GRADE
- ANTICIPATED GRADE
- ACCESS ROAD
- SALVAGED ROCK
- TIE-IN TO NORTH TRIBUTARY GRADE
- PROPOSED TRIBUTARIES

PLAN VIEW - EPHEMERAL TRIBUTARY

- PLACE 2 FT. MIN. THICKNESS SALVAGED DAM MATERIAL ON GRADED SLOPES
- PLACED LWM (SEE DETAIL SHEETS 78)
- LIMITS OF DISTURBANCE

NOTE:

- 1% GRADE TO BE DETERMINED IN FIELD.
- ALL CROSS-SECTIONS ARE ORIENTED LEFT TO RIGHT LOOKING DOWNSTREAM.

LEGEND

- TIE-IN TO NORTH TRIBUTARY GRADE
- TEMPORARY EXCAVATION AND FILL, 300 SY, 380 CY

PROFILE VIEW - EPHEMERAL TRIBUTARY

- elev = 927.97
- elev = 929.50
- elev = 905.20
- elev = 935.00

WILLIAM P. NORRIS  
PARR EXCELLENCE  
34576 8054-BNRP6/4/21  
PRELIMINARY DESIGN  
KWONEESUM DAM REMOVAL DESIGN  
KWONEESUM RESERVOIR AND DAM - TRIBUTARY PLAN VIEW  
COWITZ INDIAN TRIBE  
302 W. DEPOY ST, P.O. BOX 105  
VANCOUVER, WA 98665  
www.ers4life.com
SORT, CLASSIFY, SALVAGE, AND REUSE THESE MATERIALS. CLASSIFY AS BOULDERS, COBBLE, GRAVEL, AND SOIL. BOULDERS SHALL BE REUSED AS BALLAST FOR LARGE WOOD STRUCTURES. COBBLE AND GRAVEL SHALL BE USED IN CHANNEL CONSTRUCTION WITHIN THE RESERVOIR FOOTPRINT. SOIL SHALL BE MIXED WITH FINES EXCAVATED FROM THE BOTTOM OF THE RESERVOIR AND THEN SPREAD IN UPLAND AREAS OF THE FORMER RESERVOIR, DAM, AND SPILLWAY. CLEAR AND GRUB MATERIALS SHALL BE INCORPORATED INTO LARGE WOOD STRUCTURES.

FINISHED GRADE

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EXISTING WSE = 931.027

1979 GRADE

EXISTING DAM TO BE REMOVED

NORTH TRIBUTARY (SEE SHEETS 8 - 42)

EXISTING GRADE

WILDBOY CREEK

LEGEND

EXISTING RIVER PATHWAYS
EXISTING DAM AND SPILLWAY
TEMPORARY ACCESS ROADS
CHANNEL CENTERLINE
ORDINARY HIGH WATER (OHW)

EAST TRIBUTARY (SEE SHEETS 43 -46)

TEXAS CREEK

PLAN VIEW

FLOW

EXISTING RIVER PATHWAYS
EXISTING DAM AND SPILLWAY
TEMPORARY ACCESS ROADS
CHANNEL CENTERLINE
ORDINARY HIGH WATER (OHW)

CAMP KWONEESUM

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LEGEND

EXISTING RIVER PATHWAYS
EXISTING GRADE
CHANNEL CENTERLINE
PROPOSED GRADING
EXISTING FOREST ROADS
PROPOSED TEMPORARY ACCESS ROADS (VEHICLES)
PROPOSED TEMPORARY ACCESS ROADS (OFF ROAD)
STAGING AND STOCKPILE
WATER TURBIDITY MONITORS

SITEMAP

PLACED FELLED TREES INTO LARGE WOOD STRUCTURES (KEY PIECE LWM)
PLACED TREES INTO LARGE WOOD STRUCTURES (RACKING LWM)
FELLED LARGE TREES FOR WILDBOY CREEK LOG JAMS
EXISTING RIVER PATHWAYS
EXISTING GRADE
CHANNEL CENTERLINE
PROPOSED GRADING
EXISTING FOREST ROADS
PROPOSED TEMPORARY ACCESS ROADS (VEHICLES)
PROPOSED TEMPORARY ACCESS ROADS (OFF ROAD)
STAGING AND STOCKPILE
WATER TURBIDITY MONITORS

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FELLED LARGE TREES FOR WILDBOY CREEK LOG JAMS
EXISTING RIVER PATHWAYS
EXISTING GRADE
CHANNEL CENTERLINE
PROPOSED GRADING
EXISTING FOREST ROADS
PROPOSED TEMPORARY ACCESS ROADS (VEHICLES)
PROPOSED TEMPORARY ACCESS ROADS (OFF ROAD)
STAGING AND STOCKPILE
WATER TURBIDITY MONITORS

ORDINARY HIGH WATER (OHW)
100 YR WATER SURFACE

SALVAGED DAM ROCK
SALVAGED DELTAIC GRAVELS
PLACED SLASH

WILDBOY CREEK
TEXAS CREEK

WILDCOLY CREEK

LEGEND

SHEET LOCATION

FLOW

WILDCOLY CREEK

LEGEND

SHEET LOCATION

FLOW

WILDCOLY CREEK

LEGEND

SHEET LOCATION

FLOW

WILDCOLY CREEK