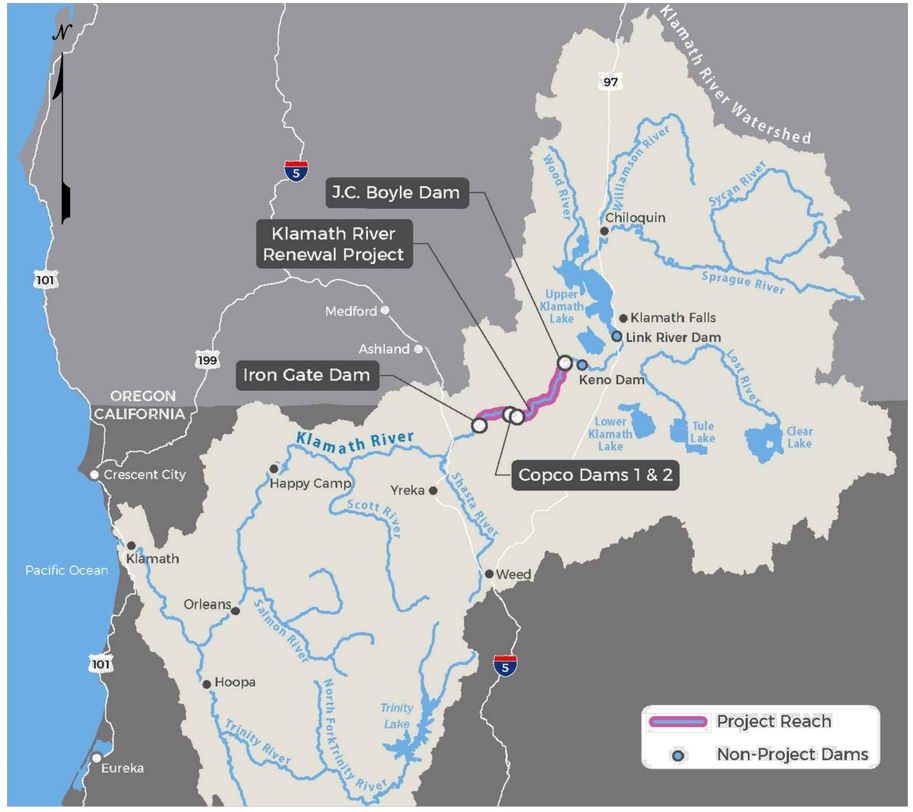
KLAMATH RIVER RENEWAL PROJECT

60% RESTORATION DESIGN DRAWINGS

KLAMATH COUNTY, OREGON
SISKIYOU COUNTY, CALIFORNIA



LOCATION MAP
NOT TO SCALE

FOR INFORMATION ONLY

PRELIMINARY DESIGN (NOT FOR CONSTRUCTION)

REV	DESCRIPTION	BY	CHK	APP	DATE
B	ISSUED - 60% RESTORATION DESIGN SUBMITTAL	SMS	JFS	MFA	02/07/20
A	ISSUED - 30% RESTORATION DESIGN SUBMITTAL	SMS	JFS	MFA	10/11/19

WARNING
0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

PREPARED BY: Stantec, res

DESIGNED	JMR, GH/KB AND JM
DRAWN	SMS
REVIEWED	JFS
IN CHARGE	SDP
APPROVED	MFA

PREPARED FOR: KLAMATH RIVER RENEWAL CORPORATION

PROJECT	KLAMATH RIVER RENEWAL PROJECT
PROJ #	VA103-640/1
DATE	2020.02.07
SHEET TITLE	COVER
DWG	R0000

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RESTORATION DRAWING INDEX

Sheet Number	Sheet Title
60% SUBMITTAL: GENERAL	
R0000	COVER
R0000	RESTORATION DRAWING INDEX
R0002	PROJECT LOCATION, VICINITY AND ACCESS
60% SUBMITTAL: JC BOYLE RESERVOIR	
R1700	JC BOYLE RESERVOIR–INDEX
R1701	JC BOYLE RESERVOIR–EXISTING CONDITIONS
R1702	JC BOYLE RESERVOIR–ACCESS PLAN
R1703	JC BOYLE RESERVOIR–PLANTING PLAN 1
R1704	JC BOYLE RESERVOIR–PLANTING PLAN 2
R1705	JC BOYLE RESERVOIR–SPENCER CREEK PLAN
R1706	JC BOYLE RESERVOIR–PIER REMOVAL
R1707	JC BOYLE RESERVOIR–SPENCER CREEK PROFILE
60% SUBMITTAL: COPCO RESERVOIR	
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R2701	COPCO RESERVOIR–EXISTING CONDITIONS
R2702	COPCO RESERVOIR–ACCESS PLAN
R2703	COPCO RESERVOIR–PLANTING PLAN 1
R2704	COPCO RESERVOIR–PLANTING PLAN 2
R2705	COPCO RESERVOIR–ASSISTED SEDIMENT EVACUATION AREAS
R2706	COPCO RESERVOIR–DEER CREEK PLAN 1
R2707	COPCO RESERVOIR–DEER CREEK PLAN 2
R2708	COPCO RESERVOIR–BEAVER CREEK PLAN 1
R2709	COPCO RESERVOIR–BEAVER CREEK PLAN 2
R2710	COPCO RESERVOIR–BEAVER CREEK PLAN 3
R2711	COPCO RESERVOIR–BEAVER CREEK PLAN 4
R2712	COPCO RESERVOIR–DEER CREEK PROFILES
R2713	COPCO RESERVOIR–BEAVER CREEK PROFILES
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R4701	IRON GATE RESERVOIR–EXISTING CONDITIONS
R4702	IRON GATE RESERVOIR–ACCESS PLAN
R4703	IRON GATE RESERVOIR–PLANTING PLAN 1
R4704	IRON GATE RESERVOIR–PLANTING PLAN 2
R4705	IRON GATE RESERVOIR–PLANTING PLAN 3
R4706	IRON GATE RESERVOIR–PLANTING PLAN 4
R4707	IRON GATE RESERVOIR–PLANTING PLAN 5
R4708	IRON GATE RESERVOIR–ASSISTED SEDIMENT EVACUATION AREAS
R4709	IRON GATE RESERVOIR–JENNY CREEK PLAN 1
R4710	IRON GATE RESERVOIR–JENNY CREEK PLAN 2
R4711	IRON GATE RESERVOIR–CAMP–SCOTCH CREEK PLAN 1
R4712	IRON GATE RESERVOIR–CAMP–SCOTCH CREEK PLAN 2
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R4714	IRON GATE RESERVOIR–CAMP–SCOTCH CREEK PLAN 4
R4715	IRON GATE RESERVOIR–CAMP–SCOTCH CREEK PLAN 5
R4716	IRON GATE RESERVOIR–CAMP–SCOTCH CREEK PLAN 6
R4717	IRON GATE RESERVOIR–CAMP–SCOTCH CREEK PLAN 7
R4718	IRON GATE RESERVOIR–LONG GULCH PLAN 1
R4719	IRON GATE RESERVOIR–LONG GULCH PLAN 2
R4720	IRON GATE RESERVOIR–JENNY CREEK PROFILE 1
R4721	IRON GATE RESERVOIR–JENNY CREEK PROFILE 2 & SCOTCH CREEK
R4722	IRON GATE RESERVOIR–CAMP CREEK PROFILE 1
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60% SUBMITTAL: DETAILS	
R0801	EROSION AND SDEIMENT CONTROL DETAILS
R0802	RESTORATION DETAILS 1
R0803	RESTORATION DETAILS 2
R0804	RESTORATION DETAILS 3
R0805	RESTORATION DETAILS 4
R0806	RESTORATION DETAILS 5
R0807	TRIBUTARY GRADING QUANTITIES
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R0809	PLANTING PALETTE
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R0812	IRRIGATION DETAILS
R0813	FENCING DETAILS

PRELIMINARY DESIGN (NOT FOR CONSTRUCTION) 60% PLAN

REV	DESCRIPTION	BY	CHK	APP	DATE
B	ISSUED - 60% RESTORATION DESIGN SUBMITTAL	SMS	JFS	MFA	02/07/20
A	ISSUED - 30% RESTORATION DESIGN SUBMITTAL	SMS	JFS	MFA	10/11/19

WARNING
0 1/2 1
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PREPARED BY: Stantec, res

DESIGNED	JMR, GH/KB AND JM
DRAWN	SMS
REVIEWED	JFS
IN CHARGE	SDP
APPROVED	MFA

PREPARED FOR: KLAMATH RIVER RENEWAL CORPORATION

PROJECT: KLAMATH RIVER RENEWAL PROJECT

PROJ #	VA103-640/1
DATE	2020.02.07
DWG	R0000

SHEET TITLE: RESTORATION DRAWING INDEX

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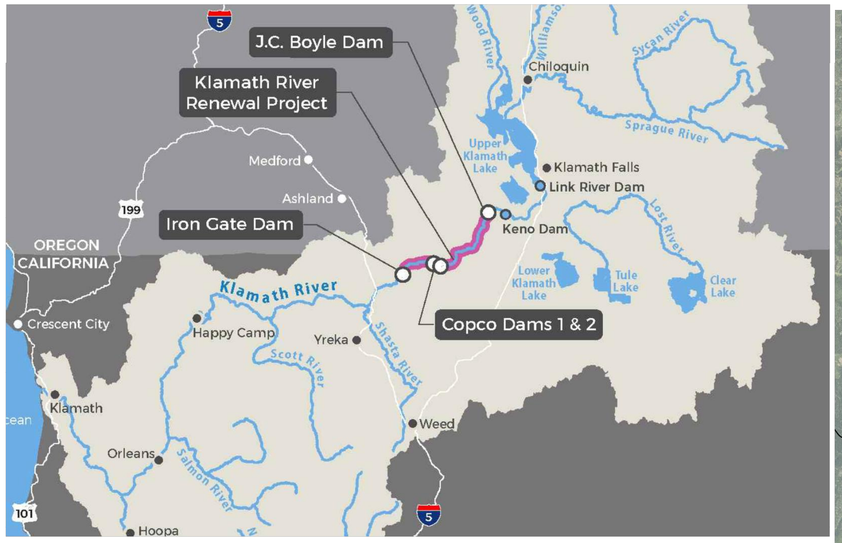

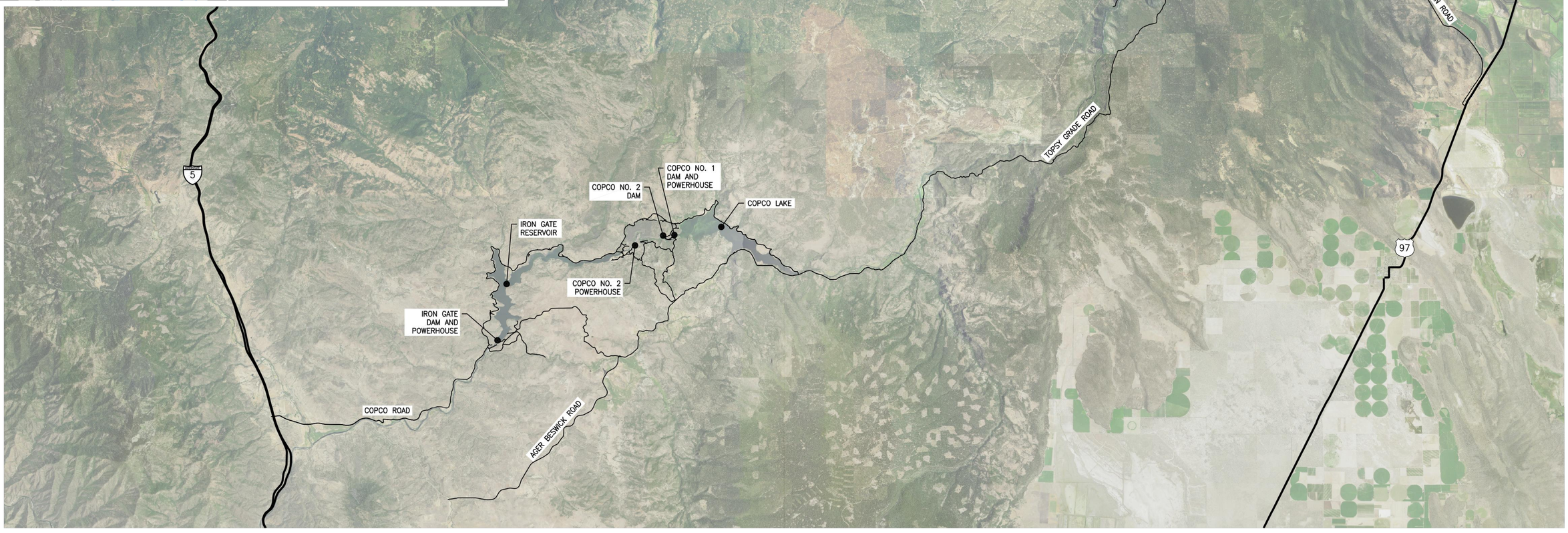

PLAN
1" = 8000'

FOR INFORMATION ONLY

0 8000 16000 24000
HORIZ 1" = 8000'

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PREPARED FOR
KLAMATH RIVER RENEWAL CORPORATION

PROJECT	KLAMATH RIVER RENEWAL PROJECT
PROJ #	VA103-640/1
DATE	2020.02.07
SHEET TITLE	PROJECT LOCATION, VICINITY AND ACCESS
DWG	R0002

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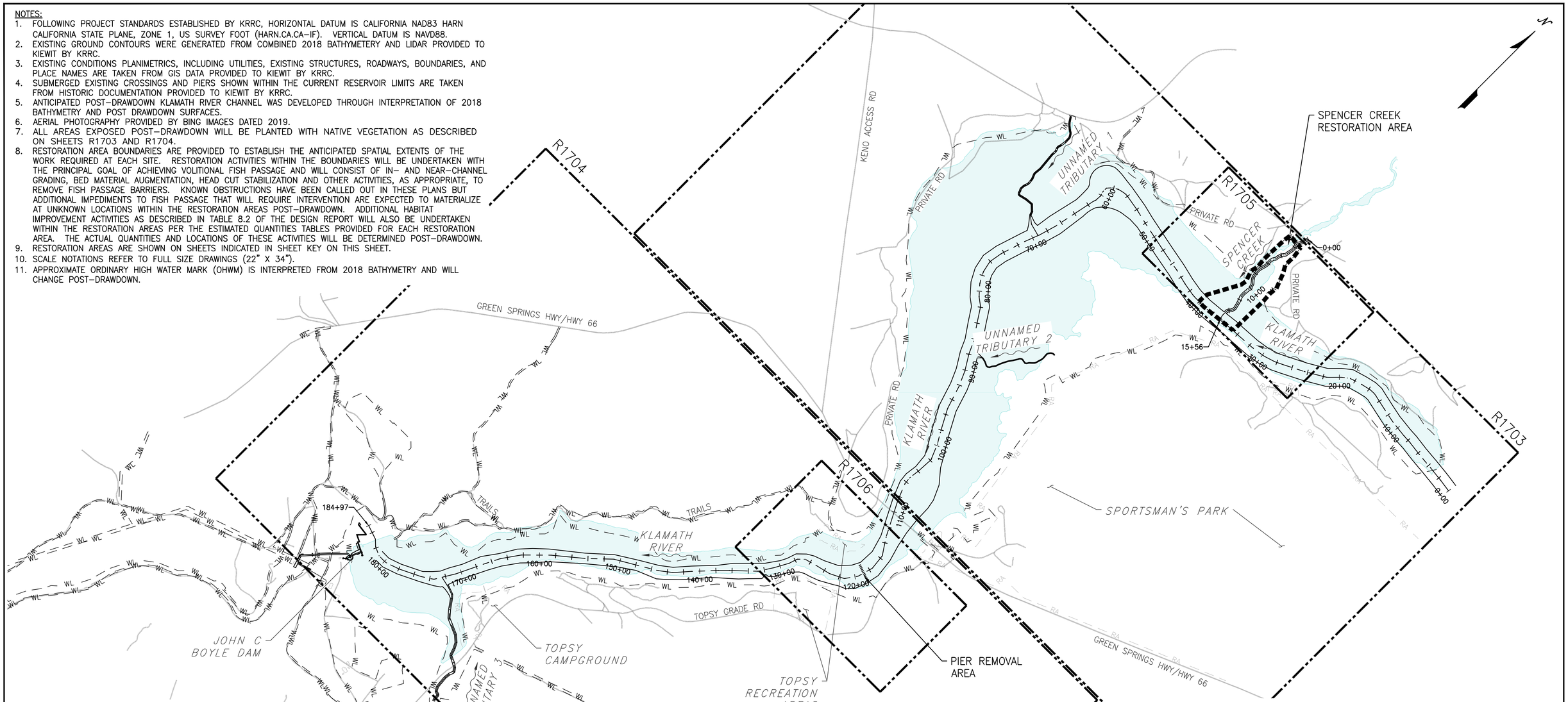
NOTES:

1. FOLLOWING PROJECT STANDARDS ESTABLISHED BY KRRC, HORIZONTAL DATUM IS CALIFORNIA NAD83 HARN CALIFORNIA STATE PLANE, ZONE 1, US SURVEY FOOT (HARN.CA.CA–IF). VERTICAL DATUM IS NAVD88.
2. EXISTING GROUND CONTOURS WERE GENERATED FROM COMBINED 2018 BATHYMETERY AND LIDAR PROVIDED TO KIEWIT BY KRRC.
3. EXISTING CONDITIONS PLANIMETRICS, INCLUDING UTILITIES, EXISTING STRUCTURES, ROADWAYS, BOUNDARIES, AND PLACE NAMES ARE TAKEN FROM GIS DATA PROVIDED TO KIEWIT BY KRRC.
4. SUBMERGED EXISTING CROSSINGS AND PIERS SHOWN WITHIN THE CURRENT RESERVOIR LIMITS ARE TAKEN FROM HISTORIC DOCUMENTATION PROVIDED TO KIEWIT BY KRRC.
5. ANTICIPATED POST–DRAWDOWN KLAMATH RIVER CHANNEL WAS DEVELOPED THROUGH INTERPRETATION OF 2018 BATHYMETRY AND POST DRAWDOWN SURFACES.
6. AERIAL PHOTOGRAPHY PROVIDED BY BING IMAGES DATED 2019.
7. ALL AREAS EXPOSED POST–DRAWDOWN WILL BE PLANTED WITH NATIVE VEGETATION AS DESCRIBED ON SHEETS R1703 AND R1704.
8. RESTORATION AREA BOUNDARIES ARE PROVIDED TO ESTABLISH THE ANTICIPATED SPATIAL EXTENTS OF THE WORK REQUIRED AT EACH SITE. RESTORATION ACTIVITIES WITHIN THE BOUNDARIES WILL BE UNDERTAKEN WITH THE PRINCIPAL GOAL OF ACHIEVING VOLITIONAL FISH PASSAGE AND WILL CONSIST OF IN– AND NEAR–CHANNEL GRADING, BED MATERIAL AUGMENTATION, HEAD CUT STABILIZATION AND OTHER ACTIVITIES, AS APPROPRIATE, TO REMOVE FISH PASSAGE BARRIERS. KNOWN OBSTRUCTIONS HAVE BEEN CALLED OUT IN THESE PLANS BUT ADDITIONAL IMPEDIMENTS TO FISH PASSAGE THAT WILL REQUIRE INTERVENTION ARE EXPECTED TO MATERIALIZE AT UNKNOWN LOCATIONS WITHIN THE RESTORATION AREAS POST–DRAWDOWN. ADDITIONAL HABITAT IMPROVEMENT ACTIVITIES AS DESCRIBED IN TABLE 8.2 OF THE DESIGN REPORT WILL ALSO BE UNDERTAKEN WITHIN THE RESTORATION AREAS PER THE ESTIMATED QUANTITIES TABLES PROVIDED FOR EACH RESTORATION AREA. THE ACTUAL QUANTITIES AND LOCATIONS OF THESE ACTIVITIES WILL BE DETERMINED POST–DRAWDOWN.
9. RESTORATION AREAS ARE SHOWN ON SHEETS INDICATED IN SHEET KEY ON THIS SHEET.
10. SCALE NOTATIONS REFER TO FULL SIZE DRAWINGS (22" X 34").
11. APPROXIMATE ORDINARY HIGH WATER MARK (OHWM) IS INTERPRETED FROM 2018 BATHYMETRY AND WILL CHANGE POST–DRAWDOWN.



LEGEND

EXISTING STRUCTURES
EDGE OF RESERVOIR
EXISTING ROAD CENTERLINE
RECREATIONAL AREA LIMITS (RA)
PROPOSED RESTORATION AREA
PROPOSED WORK LIMITS (WL)

PRELIMINARY DESIGN (NOT FOR CONSTRUCTION) 60% PLAN

JC BOYLE DRAWING INDEX

SHEET NUMBER	SHEET TITLE
60% SUBMITTAL: JC BOYLE RESERVOIR	
R1700	JC BOYLE RESERVOIR–INDEX
R1701	JC BOYLE RESERVOIR–EXISTING CONDITIONS
R1702	JC BOYLE RESERVOIR–ACCESS PLAN
R1703	JC BOYLE RESERVOIR–PLANTING PLAN 1
R1704	JC BOYLE RESERVOIR–PLANTING PLAN 2
R1705	JC BOYLE RESERVOIR–SPENCER CREEK PLAN
R1706	JC BOYLE RESERVOIR–PIER REMOVAL
R1707	JC BOYLE RESERVOIR–SPENCER CREEK PROFILE

0 600 1200 1800
HORIZ 1" = 600'

REV	DESCRIPTION	BY	CHK	APP	DATE
B	ISSUED - 60% RESTORATION DESIGN SUBMITTAL	SMS	JFS	MFA	02/07/20
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PREPARED BY: Stantec / res

DESIGNED	JMR
DRAWN	SMS
REVIEWED	JFS
IN CHARGE	SDP
APPROVED	MFA

PREPARED FOR: KLAMATH RIVER RENEWAL CORPORATION

PROJECT: KLAMATH RIVER RENEWAL PROJECT
PROJ # VA103-640/1
DATE 2020.02.07
SHEET TITLE: JC BOYLE RESERVOIR-INDEX
DWG R1700

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LEGEND

RESERVOIR INDEPENDENT WETLAND

RESERVOIR DEPENDENT WETLAND

SAFETY ZONE LIMITS

OH–E OVERHEAD ELECTRIC

E ELECTRIC

WL PROPOSED WORK LIMITS

RA RECREATIONAL AREA LIMITS

EXISTING ROAD CENTERLINE

EDGE OF RESERVOIR

NOTES:
1. SEE WETLAND DELINEATION REPORT FOR WETLAND TYPES.

N

SAFETY ZONE LIMITS

JOHN C BOYLE DAM

GREEN SPRINGS HWY/I-HWY 66

KENO ACCESS RD

PRIVATE RD

KLAMATH RIVER

UNNAMED TRIBUTARY 1

UNNAMED TRIBUTARY 2

UNNAMED TRIBUTARY 3

SPENCER CREEK

RESERVOIR DEPENDENT WETLANDS

RESERVOIR INDEPENDENT WETLANDS

TRAILS

TOPSY GRADE RD

TOPSY CAMPGROUND

TOPSY RECREATION AREAS

PIER REMOVAL AREA

SPORTSMAN'S PARK

0 600 1200 1800

HORIZ 1" = 600'

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DRAWN	SMS
REVIEWED	JFS
IN CHARGE	SDP
APPROVED	MFA

PREPARED FOR
KLAMATH RIVER RENEWAL CORPORATION

PROJECT
KLAMATH RIVER RENEWAL PROJECT

PROJ # VA103-640/1

DATE 2020.02.07

SHEET TITLE
JC BOYLE RESERVOIR-EXISTING CONDITIONS

DWG R1701

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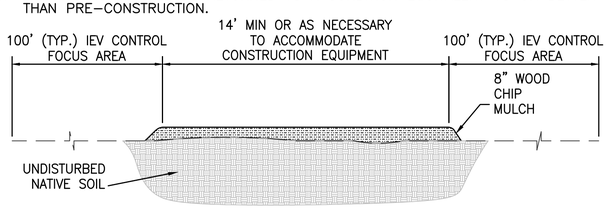
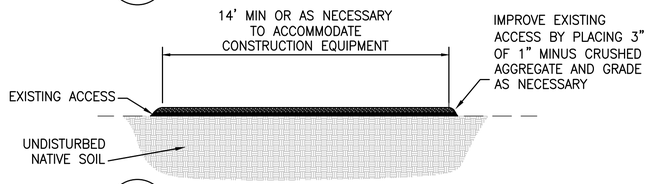
NOTES:
1. TEMPORARY ACCESS ROUTES AND STAGING AREAS SHOWN HERE REPRESENT A PROBABLE AND PLAUSIBLE PATHWAY TO WORK AREAS. FINAL TEMPORARY ACCESS ROUTE LOCATIONS WILL BE DETERMINED POST DRAWDOWN, PENDING FIELD CONDITIONS.
2. WHERE DEEMED NECESSARY, TEMPORARY ACCESS WILL BE SURFACED WITH WOOD CHIP MULCH, SEE CROSS SECTION 1.
3. EXCESSIVELY WET AREAS MAY REQUIRE THE USE OF TIMBER MATS FOR ACCESS. SEE DETAIL 5 SHEET R0801.
4. ACCESS ROADS MAY REMAIN IN PLACE FOR MONITORING AND MAINTENANCE AND IEV MANAGEMENT AS NECESSARY.
5. EXISTING ACCESS WILL BE RESURFACED AS NECESSARY TO FACILITATE EQUIPMENT PASSAGE, DEPENDING ON FINAL TEMPORARY ACCESS LOCATIONS.
6. EXISTING ROADS WILL BE RETURNED TO A CONDITION EQUIVALENT TO OR BETTER THAN PRE-CONSTRUCTION.



1 / R2702 TEMPORARY ACCESS SECTION DETAIL



2 / R2702 EXISTING ACCESS IMPROVEMENTS DETAIL

JC BOYLE RESERVOIR ACCESS PLAN QUANTITIES

WORK AREA	PROP. ACCESS (LF)	EX. ACCESS IMPROVEMENT (LF)	PROP. STAGING AREA (SY)
SPENCER CREEK	1,442	1,680	4,600
PIER DEMOLITION	993	641	1,315

LEGEND

RESERVOIR INDEPENDENT WETLAND
RESERVOIR DEPENDENT WETLAND
SAFETY ZONE LIMITS
RECREATIONAL AREA LIMITS (RA)
EXISTING ROAD CENTERLINE
PROPOSED WORK LIMITS (WL)
PROPOSED ACCESS ROUTE
PROPOSED RESTORATION AREA
PROPOSED STAGING AREA

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B	ISSUED - 60% RESTORATION DESIGN SUBMITTAL	SMS	JFS	MFA	02/07/20
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PREPARED BY: Stantec / res

DESIGNED	JMR
DRAWN	SMS
REVIEWED	JFS
IN CHARGE	SDP
APPROVED	MFA

PREPARED FOR: KLAMATH RIVER RENEWAL CORPORATION

PROJECT: KLAMATH RIVER RENEWAL PROJECT
SHEET TITLE: JC BOYLE RESERVOIR-ACCESS PLAN
PROJ # VA103-640/1
DATE 2020.02.07
DWG R1702

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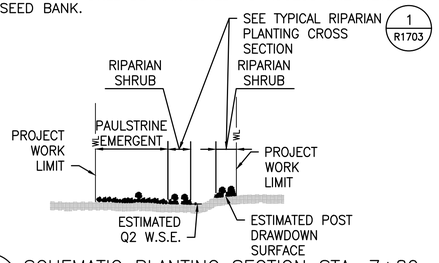
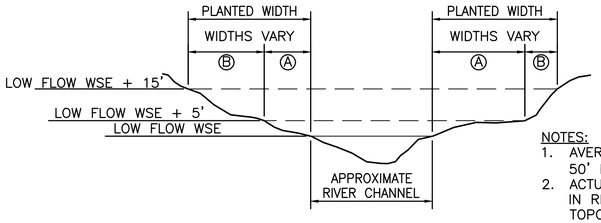
NOTES:
1. RESERVOIR DEPENDANT WETLANDS CAN BE USED AS WETLAND VEGETATION HARVEST AREAS.
2. SEE SHEET R0809 FOR REVEGETATION NOTES, QUANTITIES, AND SEED MIXES.
3. SEE SHEETS R0810 AND R0811 FOR REVEGETATION DETAILS.
4. INSTALL IRRIGATION IN RIPARIAN PLANTING ZONES.
5. IT IS POSSIBLE RESERVOIR DEPENDENT WETLANDS MAY CONVERT TO UPLAND BETWEEN DRAWDOWN AND CONSTRUCTION. IT IS EXPECTED THAT IF THEY DO THESE AREAS CAN STILL BE HARVESTED TO ACCESS THE WETLAND SEED BANK.



A R1703 SCHEMATIC PLANTING SECTION STA. 7+80
HORIZONTAL: 1" = 100'
(VERTICAL NOT TO SCALE)

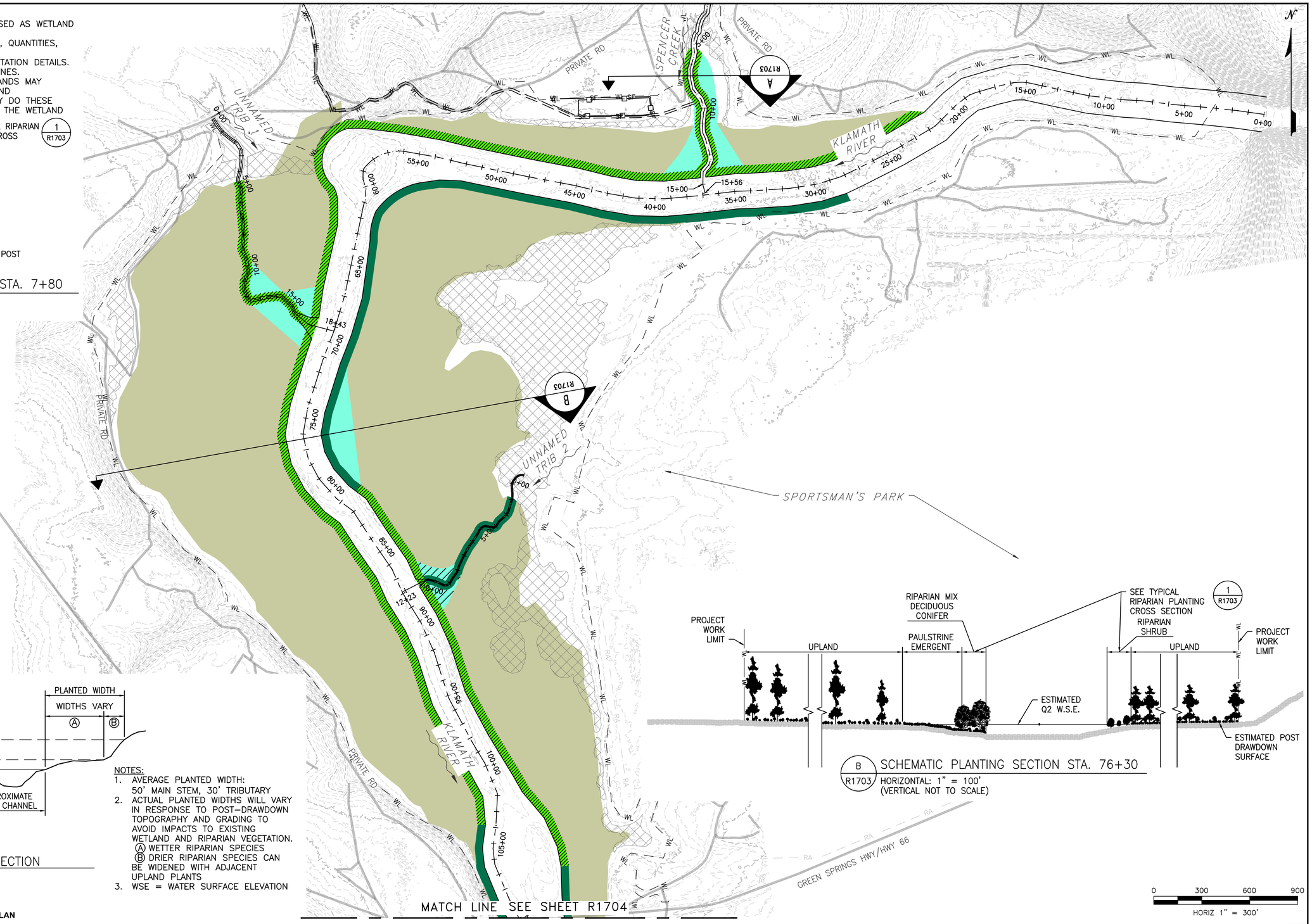
LEGEND

PALUSTRINE SCRUB SHRUB
PALUSTRINE EMERGENT
RIPARIAN MIXED DECIDUOUS CONIFEROUS
RIPARIAN SHRUB
JC BOYLE UPLAND
RESERVOIR DEPENDANT WETLANDS
RESERVOIR INDEPENDANT WETLANDS



1 R1703 RIPARIAN PLANTING CROSS SECTION
TYPICAL SECTION

NOTES:
1. AVERAGE PLANTED WIDTH: 50' MAIN STEM, 30' TRIBUTARY
2. ACTUAL PLANTED WIDTHS WILL VARY IN RESPONSE TO POST-DRAWDOWN TOPOGRAPHY AND GRADING TO AVOID IMPACTS TO EXISTING WETLAND AND RIPARIAN VEGETATION.
   (A) WETTER RIPARIAN SPECIES
   (B) DRIER RIPARIAN SPECIES CAN BE WIDENED WITH ADJACENT UPLAND PLANTS
3. WSE = WATER SURFACE ELEVATION



B R1703 SCHEMATIC PLANTING SECTION STA. 76+30
HORIZONTAL: 1" = 100'
(VERTICAL NOT TO SCALE)

0 300 600 900
HORIZ 1" = 300'

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PROJ # VA103-640/1
DATE 2020.02.07
SHEET TITLE: JC BOYLE RESERVOIR-PLANTING PLAN 1
DWG R1703

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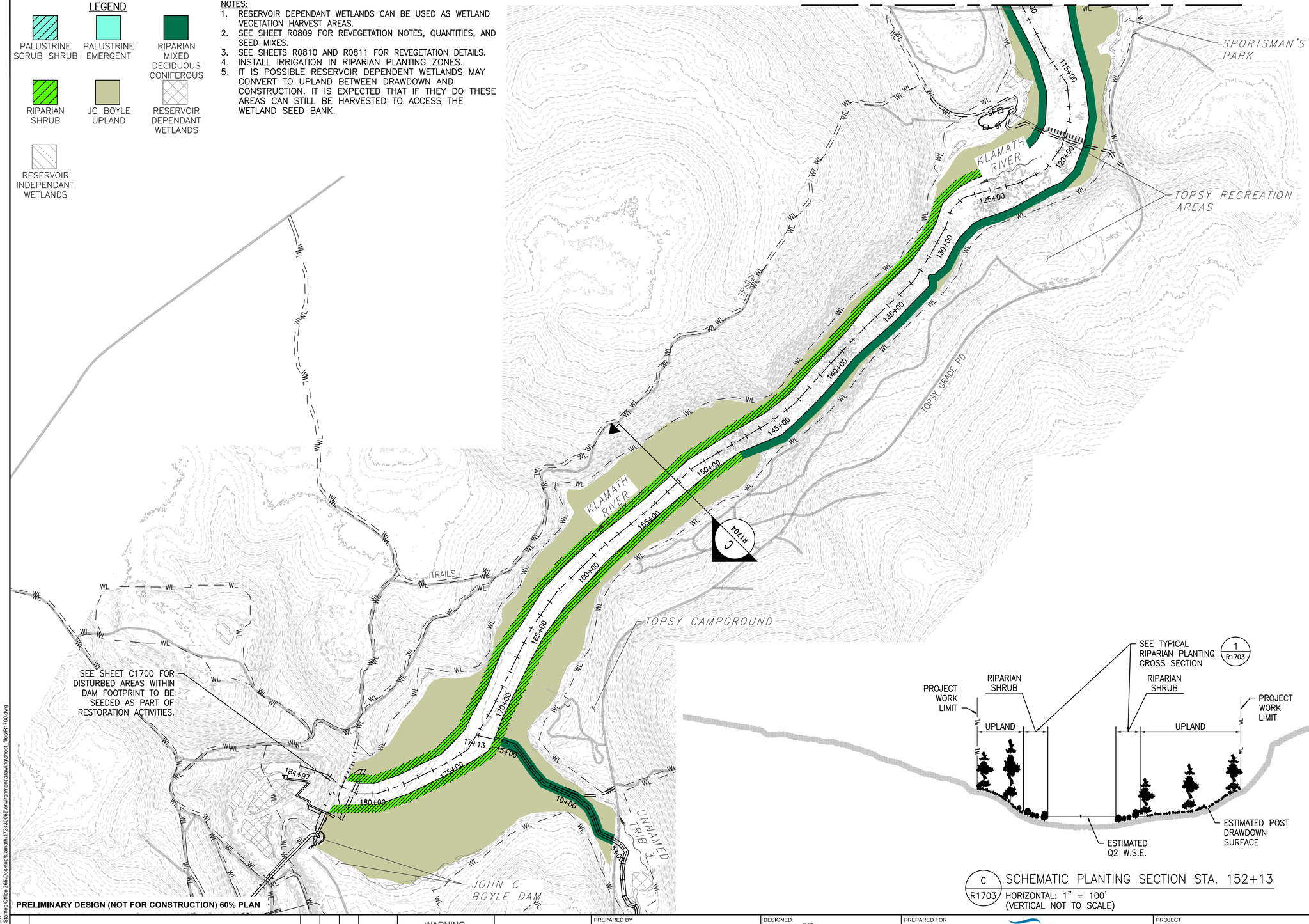
MATCH LINE SEE SHEET R1703

LEGEND

- PALUSTRINE SCRUB SHRUB
- PALUSTRINE EMERGENT
- RIPARIAN MIXED DECIDUOUS CONIFEROUS
- RIPARIAN SHRUB
- JC BOYLE UPLAND
- RESERVOIR DEPENDANT WETLANDS
- RESERVOIR INDEPENDANT WETLANDS

NOTES:
1. RESERVOIR DEPENDANT WETLANDS CAN BE USED AS WETLAND VEGETATION HARVEST AREAS.
2. SEE SHEET R0809 FOR REVEGETATION NOTES, QUANTITIES, AND SEED MIXES.
3. SEE SHEETS R0810 AND R0811 FOR REVEGETATION DETAILS.
4. INSTALL IRRIGATION IN RIPARIAN PLANTING ZONES.
5. IT IS POSSIBLE RESERVOIR DEPENDENT WETLANDS MAY CONVERT TO UPLAND BETWEEN DRAWDOWN AND CONSTRUCTION. IT IS EXPECTED THAT IF THEY DO THESE AREAS CAN STILL BE HARVESTED TO ACCESS THE WETLAND SEED BANK.



C / R1703 SCHEMATIC PLANTING SECTION STA. 152+13
HORIZONTAL: 1" = 100'
(VERTICAL NOT TO SCALE)

0 300 600 900
HORIZ 1" = 300'

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PROJ # VA103-640/1
DATE 2020.02.07
SHEET TITLE: JC BOYLE RESERVOIR-PLANTING PLAN 2
DWG R1704

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LEGEND

EXISTING CONTOURS (3810) | EXISTING STRUCTURES | EXISTING ROAD CENTERLINE | RECREATIONAL AREA LIMITS (RA)

PROPOSED RESTORATION AREA | PROPOSED STAGING AREA | RESERVOIR INDEPENDENT WETLAND | RESERVOIR DEPENDENT WETLAND

PROPOSED ACCESS ROUTE | SECURITY FENCE | PROPOSED WORK LIMITS (WL) | EDGE OF WATER

EXCESS CUT DISPOSAL AREAS | SILT FENCE (SF) | GRADING DAYLIGHT LINE | ORDINARY HIGH WATER MARK (OHWM)

QUANTITIES FOR ENTIRETY OF SPENCER CREEK RESTORATION AREA ACTIONS		
RESTORATION ITEM	TOTAL	UNIT
BOULDER CLUSTER	51	EA
WILLOW BAFFLES	6	EA
LARGE WOOD STRUCTURE – GROUND	16	EA
LARGE WOOD STRUCTURE – HELICOPTER	53	EA

NOTES:
1. REFER TO DESIGN REPORT TABLE 8.2 FOR RESTORATION ACTIONS.
2. SEE TABLE FOR QUANTITY ESTIMATES.
3. MATERIAL IN EXCESS CUT DISPOSAL AREAS TO BE PLACED IN TWO–FOOT LIFTS. EACH LIFT WILL BE COMPACTED BY A MINIMUM 3 PASSES OF EQUIPMENT. LIFTS WILL BE BENCHED EVERY 10 VERTICAL FEET, SLOPED AT 10:1 OR GREATER FOR POSITIVE DRAINAGE. LIFT SIDE SLOPES WILL BE NO STEEPER THAN 3:1.

N

PRIVATE RD

SPENCER CREEK

KLAMATH RIVER

3 / R0801 SILT FENCE

1 / R0813 SECURITY FENCE

EXCESS CUT DISPOSAL AREA

PROPOSED ACCESS ROUTE

PROPOSED STAGING AREA

3 / R0813 6' SECURITY GATE

SPENCER CREEK DELTA GRADING DAYLIGHT LINE (TYP.)

1+50 TO 14+50 TYPE I 1 / R0807

14+50 TO 15+56 TYPE III 1 / R0807

TRIBUTARY CONFLUENCE WORK SHALL BE PERFORMED TO PROMOTE VOLITIONAL FISH PASSAGE. REFER TO DETAIL SHEETS R0807 FOR POTENTIAL ACTIONS. WORK SHALL BE MODIFIED IN THE FIELD AS NECESSARY TO PREVENT IMPACTS TO CULTURAL RESOURCES.

SPENCER CREEK RESTORATION AREA

48+00 46+00 44+00 42+00 40+00 38+00 36+00 32+00 30+00 28+00 26+00 24+00

0 80 160 240
HORIZ 1" = 80'

PRELIMINARY DESIGN (NOT FOR CONSTRUCTION) 60% PLAN

REV	DESCRIPTION	BY	CHK	APP	DATE
B	ISSUED - 60% RESTORATION DESIGN SUBMITTAL	SMS	JFS	MFA	02/07/20
A	ISSUED - 30% RESTORATION DESIGN SUBMITTAL	SMS	JFS	MFA	10/11/19

WARNING
0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

PREPARED BY: Stantec / res

DESIGNED	JMR
DRAWN	SMS
REVIEWED	JFS
IN CHARGE	SDP
APPROVED	MFA

PREPARED FOR: KLAMATH RIVER RENEWAL CORPORATION

PROJECT: KLAMATH RIVER RENEWAL PROJECT

SHEET TITLE: JC BOYLE RESERVOIR-SPENCER CREEK PLAN

PROJ #	VA103-640/1
DATE	2020.02.07
DWG	R1705

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PROPOSED STAGING AREA

1 R0813 SECURITY FENCE

3 R0801 SILT FENCE

6' SECURITY GATE 3 R0813

TREES MARKED FOR PRESERVATION ON SHEET REC7217 SHALL NOT BE DISTURBED WITHIN STAGING AREA.

EXISTING PIERS TO BE REMOVED

KLAMATH RIVER

114+00

118+00

120+00

122+00

124+00

126+00

128+00

130+00

132+00

QUANTITIES FOR ENTIRETY OF JC BOYLE		
RESTORATION ITEM	TOTAL	UNIT
KLAMATH RIVER		
PIER REMOVAL	445	CY

NOTES:

1. QUANTITY ESTIMATE ASSUMES SOLID WOODEN PIERS.
2. QUANTITY ESTIMATE ASSUMES 13 22'X4'X5.5' PIERS EMBEDDED 5' INTO RIVER BED. QUANTITY ESTIMATE ASSUMES PIERS REMOVED IN ENTIRETY OF THESE DIMENSIONS.
3. PIER DIMENSIONS ESTIMATED FROM BATHYMETRY PROVIDED TO KIEWIT BY KRRC.
4. PIER REMOVAL ASSUMED TO BE PERFORMED FROM ACCESS SHOWN.

LEGEND

EXISTING CONTOURS (3810) | EXISTING STRUCTURES | EXISTING ROAD CENTERLINE | RECREATIONAL AREA LIMITS (RA)

PROPOSED ACCESS ROUTE | PROPOSED STAGING AREA | RESERVOIR INDEPENDENT WETLAND | RESERVOIR DEPENDENT WETLAND

SILT FENCE (SF) | SECURITY FENCE | PROPOSED WORK LIMITS (WL) | EDGE OF WATER

ORDINARY HIGH WATER MARK (OHWM)

0 60 120 180

HORIZ 1" = 60'

PRELIMINARY DESIGN (NOT FOR CONSTRUCTION) 60% PLAN

REV	DESCRIPTION	BY	CHK	APP	DATE
B	ISSUED - 60% RESTORATION DESIGN SUBMITTAL	SMS	JFS	MFA	02/07/20
A	ISSUED - 30% RESTORATION DESIGN SUBMITTAL	SMS	JFS	MFA	10/11/19

WARNING
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PREPARED BY: Stantec / res

DESIGNED	JMR
DRAWN	SMS
REVIEWED	JFS
IN CHARGE	SDP
APPROVED	MFA

PREPARED FOR: KLAMATH RIVER RENEWAL CORPORATION

PROJECT: KLAMATH RIVER RENEWAL PROJECT

SHEET TITLE: JC BOYLE RESERVOIR-PIER REMOVAL

PROJ #	VA103-640/1
DATE	2020.02.07
DWG	R1706

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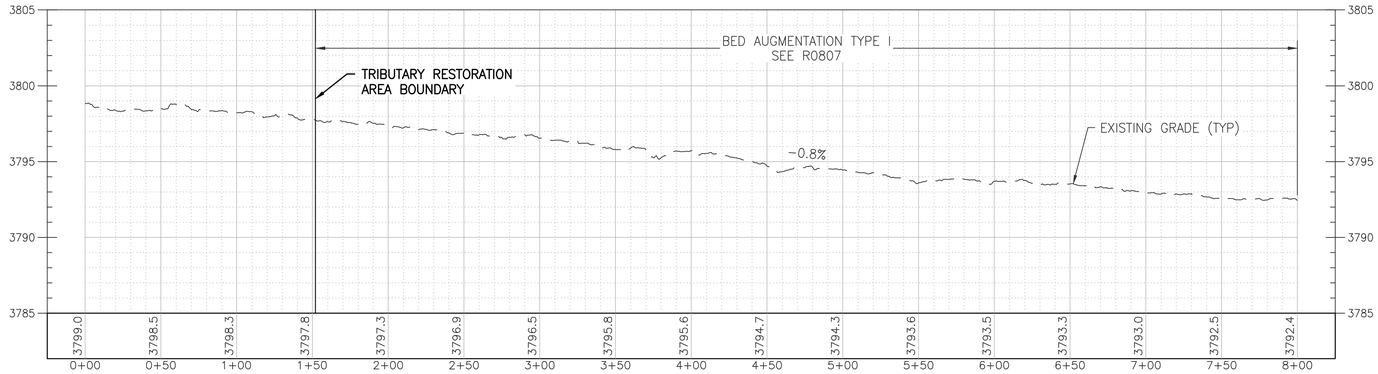
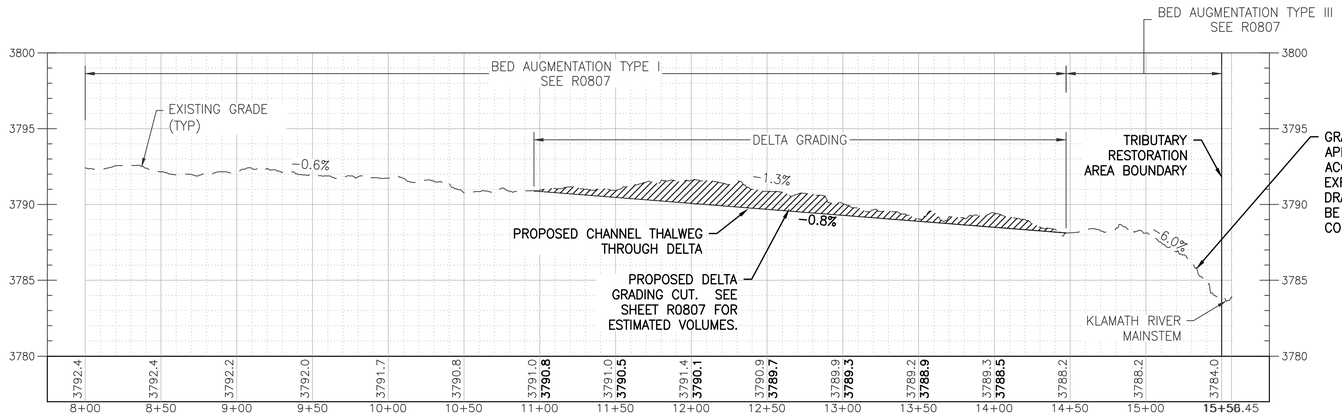


JC BOYLE SPENCER CREEK PROFILE

HORZ 1"=50', VERT 1"=5'



GRADES SHOWN AT CONFLUENCE ARE APPROXIMATE AND LIKELY REFLECT THE ACCUMULATION OF SEDIMENT THAT IS EXPECTED TO EVACUATE DURING AND AFTER DRAWDOWN. PROFILE AT CONFLUENCE WILL BE RETURNED AS CLOSE TO PRE-DAM CONDITION AS PRACTICABLE.

JC BOYLE SPENCER CREEK PROFILE

HORZ 1"=50', VERT 1"=5'

NOTES:

1. GRADES ARE APPROXIMATE AND BASED ON BEST AVAILABLE DATA; SEE NOTES BELOW.
2. EXISTING GRADE PROFILES ARE TAKEN FROM THE COMBINED 2018 BATHYMETRY AND LIDAR SURFACES PROVIDED TO KIEWIT BY KRRC.
3. POST DRAWDOWN PROFILES ARE NOT SHOWN FOR SPENCER CREEK AS THE REQUIRED BASE DATA ARE NOT AVAILABLE (SEE NOTES 6 AND 7 BELOW). EXCESSIVE RESIDUAL SEDIMENT IS NOT ANTICIPATED IN SPENCER CREEK. HOWEVER, LOCALIZED ADAPTIVE MANAGEMENT ACTIONS TO MAINTAIN VOLITIONAL FISH PASSAGE MAY BE REQUIRED POST-DRAWDOWN. REFER TO SHEETS R0808 FOR ADAPTIVE MANAGEMENT ACTIONS AND GRADING APPROACHES.
4. POST DRAWDOWN PROFILES ARE INTENDED TO REPRESENT A PLAUSIBLE ENDPOINT FOR BASIN SEDIMENTS AFTER DAM REMOVAL, RESERVOIR DRAWDOWN, AND SEDIMENT EVACUATION IN A TYPICAL WATER YEAR.
5. POST DRAWDOWN PROFILES ARE NOT INTENDED TO PROVIDE A GRADING TARGET ELEVATION; HOWEVER, POST-DRAWDOWN GRADING OF RESIDUAL SEDIMENT OR OTHER IN-CHANNEL WORK (SEE SHEET R0808) MAY BE REQUIRED TO PROMOTE VOLITIONAL FISH PASSAGE IN CERTAIN TRIBUTARIES AND AT THEIR CONFLUENCES WITH THE KLAMATH RIVER. QUANTITY ESTIMATES ARE DERIVED FROM COMPARISON OF THE POST-DRAWDOWN SURFACE AND 2018 BATHYMETRY WITHIN ANTICIPATED CHANNEL EXTENTS. SEE SHEET R0807.
6. POST DRAWDOWN SURFACES WERE GENERATED BY ESTIMATING MATERIAL CONSOLIDATION AFTER RESERVOIR DRAWDOWN, SUBTRACTING THE ESTIMATED CONSOLIDATION FROM THE 2018 EXISTING GROUND SURFACE, AND THEN SUBTRACTING ESTIMATED EVACUATION VOLUME WITHIN THE KLAMATH RIVER AND ITS TRIBUTARIES FROM THE RESULTANT SURFACE.
7. CONSOLIDATION SURFACE BASE DATA ARE GEOREFERENCED SEDIMENT DEPTH ISOLINE MAPS FROM THE BUREAU OF RECLAMATION 2011 HYDROLOGY, HYDRAULICS, AND SEDIMENT TRANSPORT STUDIES FOR THE SECRETARY'S DETERMINATION ON KLAMATH RIVER DAM REMOVAL AND BASIN RESTORATION (TECHNICAL REPORT NO. SRH-2011-02). FOR J.C. BOYLE, THESE DATA DO NOT EXTEND TO SPENCER CREEK.
8. FULL SEDIMENT EVACUATION WAS ASSUMED WITHIN CHANNEL SECTIONS. FOR THE J.C. BOYLE BASIN, REASONABLE PRE-DAM DATA WERE NOT AVAILABLE TO ESTIMATE HISTORIC CONDITIONS. PRE-DAM THALWEG ELEVATIONS WERE ESTIMATED BY SUBTRACTING TOTAL SEDIMENT DEPTHS FROM THE 2011 USBR REPORT FROM THE 2018 EXISTING CONDITIONS SURFACE.

PRELIMINARY DESIGN (NOT FOR CONSTRUCTION) 60% PLAN

REV	DESCRIPTION	BY	CHK	APP	DATE
B	ISSUED - 60% RESTORATION DESIGN SUBMITTAL	SMS	JFS	MFA	02/07/20
A	ISSUED - 30% RESTORATION DESIGN SUBMITTAL	SMS	JFS	MFA	10/11/19

WARNING
0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

PREPARED BY: Stantec, res

DESIGNED	JMR
DRAWN	SMS
REVIEWED	JFS
IN CHARGE	SDP
APPROVED	MFA

PREPARED FOR: KLAMATH RIVER RENEWAL CORPORATION

PROJECT	KLAMATH RIVER RENEWAL PROJECT
PROJ #	VA103-640/1
DATE	2020.02.07
SHEET TITLE	JC BOYLE RESERVOIR-SPENCER CREEK PROFILE
DWG	R1707

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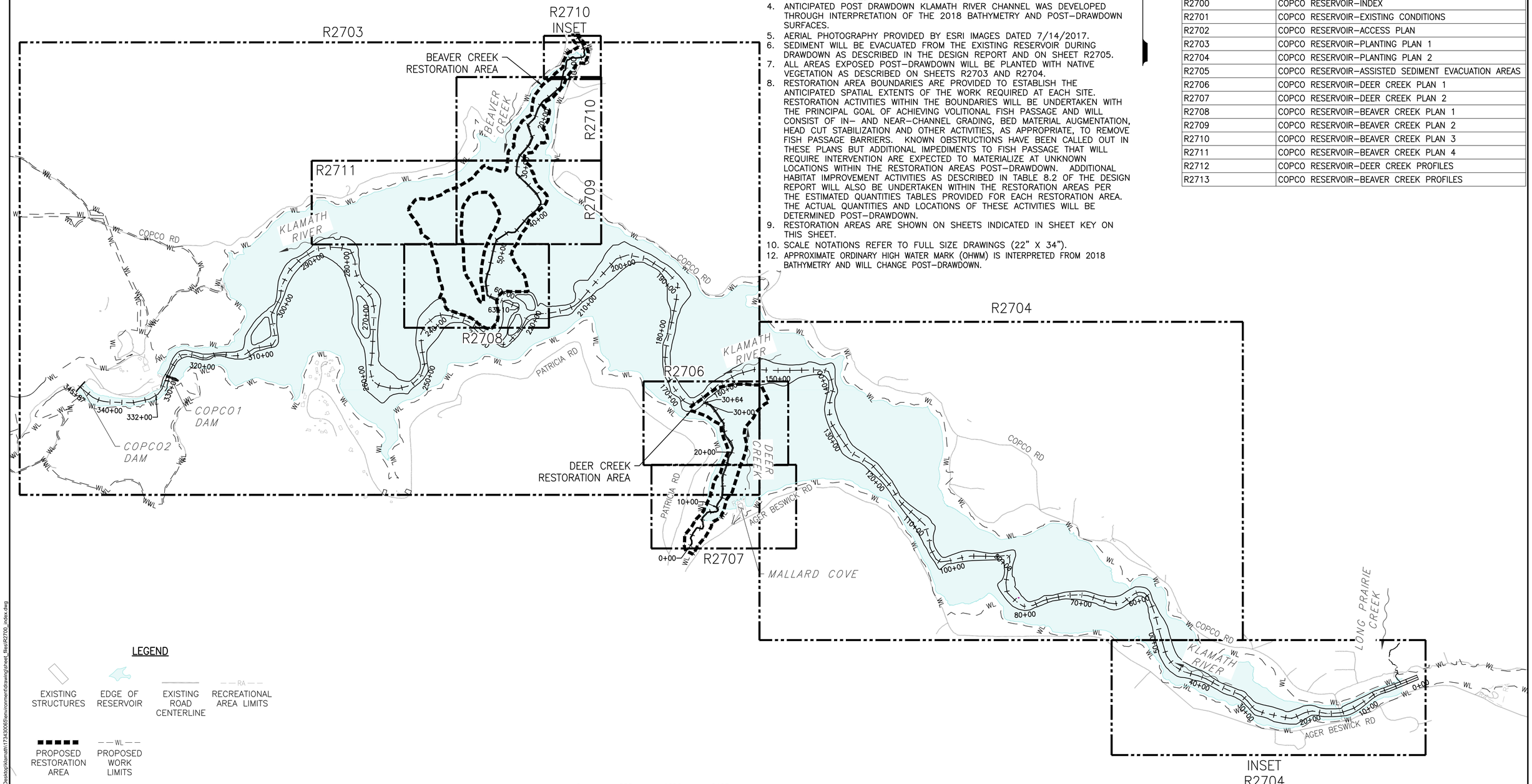
NOTES:

1. FOLLOWING PROJECT STANDARDS ESTABLISHED BY KRRC, HORIZONTAL DATUM IS CALIFORNIA NAD83 HARN CALIFORNIA STATE PLANE, ZONE 1, US SURVEY FOOT (HARN.CA.CA–IF). VERTICAL DATUM IS NAVD88.
2. EXISTING GROUND CONTOURS WERE GENERATED FROM COMBINED 2018 BATHYMETERY AND LIDAR PROVIDED TO KIEWIT BY KRRC.
3. EXISTING CONDITIONS PLANIMETRICS, INCLUDING UTILITIES, EXISTING STRUCTURES, ROADWAYS, BOUNDARIES, AND PLACE NAMES ARE TAKEN FROM GIS DATA PROVIDED TO KIEWIT BY KRRC.
4. ANTICIPATED POST DRAWDOWN KLAMATH RIVER CHANNEL WAS DEVELOPED THROUGH INTERPRETATION OF THE 2018 BATHYMETRY AND POST–DRAWDOWN SURFACES.
5. AERIAL PHOTOGRAPHY PROVIDED BY ESRI IMAGES DATED 7/14/2017.
6. SEDIMENT WILL BE EVACUATED FROM THE EXISTING RESERVOIR DURING DRAWDOWN AS DESCRIBED IN THE DESIGN REPORT AND ON SHEET R2705.
7. ALL AREAS EXPOSED POST–DRAWDOWN WILL BE PLANTED WITH NATIVE VEGETATION AS DESCRIBED ON SHEETS R2703 AND R2704.
8. RESTORATION AREA BOUNDARIES ARE PROVIDED TO ESTABLISH THE ANTICIPATED SPATIAL EXTENTS OF THE WORK REQUIRED AT EACH SITE. RESTORATION ACTIVITIES WITHIN THE BOUNDARIES WILL BE UNDERTAKEN WITH THE PRINCIPAL GOAL OF ACHIEVING VOLITIONAL FISH PASSAGE AND WILL CONSIST OF IN– AND NEAR–CHANNEL GRADING, BED MATERIAL AUGMENTATION, HEAD CUT STABILIZATION AND OTHER ACTIVITIES, AS APPROPRIATE, TO REMOVE FISH PASSAGE BARRIERS. KNOWN OBSTRUCTIONS HAVE BEEN CALLED OUT IN THESE PLANS BUT ADDITIONAL IMPEDIMENTS TO FISH PASSAGE THAT WILL REQUIRE INTERVENTION ARE EXPECTED TO MATERIALIZE AT UNKNOWN LOCATIONS WITHIN THE RESTORATION AREAS POST–DRAWDOWN. ADDITIONAL HABITAT IMPROVEMENT ACTIVITIES AS DESCRIBED IN TABLE 8.2 OF THE DESIGN REPORT WILL ALSO BE UNDERTAKEN WITHIN THE RESTORATION AREAS PER THE ESTIMATED QUANTITIES TABLES PROVIDED FOR EACH RESTORATION AREA. THE ACTUAL QUANTITIES AND LOCATIONS OF THESE ACTIVITIES WILL BE DETERMINED POST–DRAWDOWN.
9. RESTORATION AREAS ARE SHOWN ON SHEETS INDICATED IN SHEET KEY ON THIS SHEET.
10. SCALE NOTATIONS REFER TO FULL SIZE DRAWINGS (22" X 34").
12. APPROXIMATE ORDINARY HIGH WATER MARK (OHWM) IS INTERPRETED FROM 2018 BATHYMETRY AND WILL CHANGE POST–DRAWDOWN.

N

COPCO DRAWING INDEX	
SHEET NUMBER	SHEET TITLE
60% SUBMITTAL: COPCO RESERVOIR	
R2700	COPCO RESERVOIR–INDEX
R2701	COPCO RESERVOIR–EXISTING CONDITIONS
R2702	COPCO RESERVOIR–ACCESS PLAN
R2703	COPCO RESERVOIR–PLANTING PLAN 1
R2704	COPCO RESERVOIR–PLANTING PLAN 2
R2705	COPCO RESERVOIR–ASSISTED SEDIMENT EVACUATION AREAS
R2706	COPCO RESERVOIR–DEER CREEK PLAN 1
R2707	COPCO RESERVOIR–DEER CREEK PLAN 2
R2708	COPCO RESERVOIR–BEAVER CREEK PLAN 1
R2709	COPCO RESERVOIR–BEAVER CREEK PLAN 2
R2710	COPCO RESERVOIR–BEAVER CREEK PLAN 3
R2711	COPCO RESERVOIR–BEAVER CREEK PLAN 4
R2712	COPCO RESERVOIR–DEER CREEK PROFILES
R2713	COPCO RESERVOIR–BEAVER CREEK PROFILES



LEGEND

EXISTING STRUCTURES
EDGE OF RESERVOIR
EXISTING ROAD CENTERLINE
RECREATIONAL AREA LIMITS
PROPOSED RESTORATION AREA
PROPOSED WORK LIMITS

0 800 1600 2400
HORIZ 1" = 800'

PRELIMINARY DESIGN (NOT FOR CONSTRUCTION) 60% PLAN

REV	DESCRIPTION	BY	CHK	APP	DATE
B	ISSUED - 60% RESTORATION DESIGN SUBMITTAL	SMS	JFS	MFA	02/07/20
A	ISSUED - 30% RESTORATION DESIGN SUBMITTAL	SMS	JFS	MFA	10/11/19

WARNING
0 1/2 1
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PREPARED BY: Stantec, res

DESIGNED	GH/KB
DRAWN	SMS
REVIEWED	JFS
IN CHARGE	SDP
APPROVED	MFA

PREPARED FOR: KLAMATH RIVER RENEWAL CORPORATION

PROJECT	KLAMATH RIVER RENEWAL PROJECT
PROJ #	VA103-640/1
DATE	2020.02.07
SHEET TITLE	COPCO RESERVOIR-INDEX
DWG	R2700

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LEGEND

- RESERVOIR INDEPENDENT WETLAND
- RESERVOIR DEPENDENT WETLAND
- EDGE OF RESERVOIR
- OH-E — OVERHEAD ELECTRIC
- E — ELECTRIC
- WL — PROPOSED WORK LIMITS
- RA — RECREATIONAL AREA LIMITS
- EXISTING ROAD CENTERLINE

NOTES:
1. SEE WETLAND DELINEATION REPORT FOR WETLAND TYPES.

N

COPCO UNNAMED TRIBUTARY 2
BEAVER CREEK
COPCO RD
RAYMOND GULCH
RESERVOIR DEPENDENT WETLANDS
COPCO UNNAMED TRIBUTARY
SPANNAUS GULCH
COPCO 2 DAM
COPCO 1 DAM
PATRICIA RD
RESERVOIR INDEPENDENT WETLANDS
DEER CREEK
MALLARD COVE
AGER BESWICK RD
SNACKENBURY CREEK
KLAMATH RIVER
LONG PRAIRIE CREEK

0 800 1600 2400
HORIZ 1" = 800'

PRELIMINARY DESIGN (NOT FOR CONSTRUCTION) 60% PLAN

REV	DESCRIPTION	BY	CHK	APP	DATE
B	ISSUED - 60% RESTORATION DESIGN SUBMITTAL	SMS	JFS	MFA	02/07/20
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WARNING
0 1/2 1
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PREPARED BY
Stantec res

DESIGNED	GH/KB
DRAWN	SMS
REVIEWED	JFS
IN CHARGE	SDP
APPROVED	MFA

PREPARED FOR
KLAMATH RIVER RENEWAL CORPORATION

PROJECT
KLAMATH RIVER RENEWAL PROJECT

PROJ # VA103-640/1
DATE 2020.02.07

SHEET TITLE
COPCO RESERVOIR-EXISTING CONDITIONS

DWG
R2701

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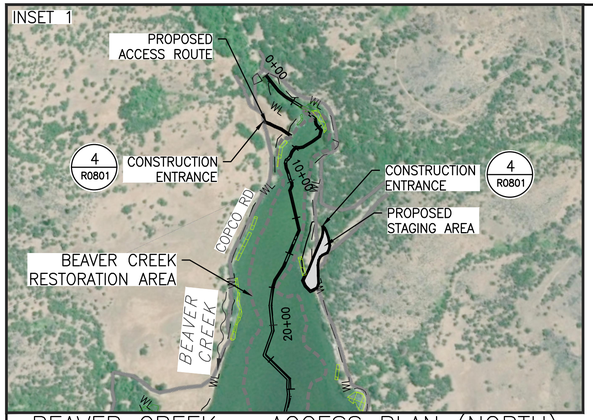
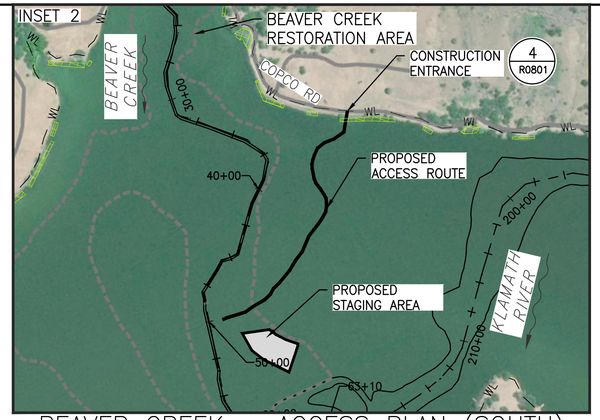


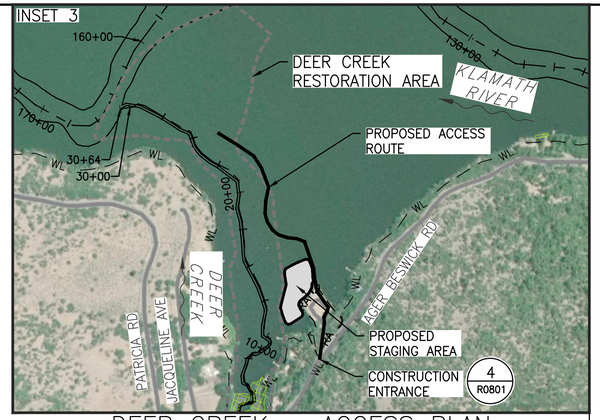
BEAVER CREEK – ACCESS PLAN (NORTH)

1"= 500'



BEAVER CREEK – ACCESS PLAN (SOUTH)

1"= 500'

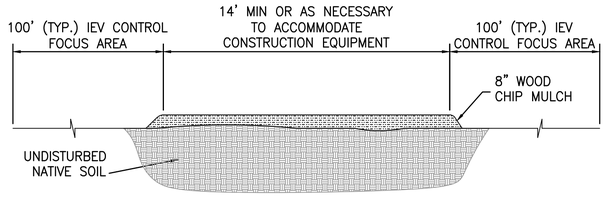


DEER CREEK – ACCESS PLAN

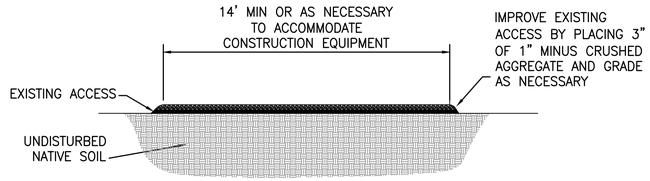
1"= 500'

NOTES:

1. TEMPORARY ACCESS ROUTES AND STAGING AREAS SHOWN HERE REPRESENT A PROBABLE AND PLAUSIBLE PATHWAY TO WORK AREAS. FINAL TEMPORARY ACCESS ROUTE LOCATIONS WILL BE DETERMINED POST DRAWDOWN, PENDING FIELD CONDITIONS.
2. WHERE DEEMED NECESSARY, TEMPORARY ACCESS WILL BE SURFACED WITH WOOD CHIP MULCH, SEE CROSS SECTION 1.
3. EXCESSIVELY WET AREAS MAY REQUIRE THE USE OF TIMBER MATS FOR ACCESS. SEE DETAIL 5 SHEET R0801.
4. ACCESS ROADS MAY REMAIN IN PLACE FOR MONITORING AND MAINTENANCE AND IEV MANAGEMENT AS NECESSARY.
5. EXISTING ACCESS WILL BE RESURFACED AS NECESSARY TO FACILITATE EQUIPMENT PASSAGE, DEPENDING ON FINAL TEMPORARY ACCESS LOCATIONS.
6. EXISTING ROADS WILL BE RETURNED TO A CONDITION EQUIVALENT TO OR BETTER THAN PRE–CONSTRUCTION.



1 R2702 TEMPORARY ACCESS SECTION DETAIL



2 R2702 EXISTING ACCESS IMPROVEMENTS DETAIL

LEGEND

- RESERVOIR DEPENDENT WETLAND
- RESERVOIR INDEPENDENT WETLAND
- PROPOSED STAGING AREA
- RA — RECREATIONAL AREA LIMITS
- EXISTING ROAD CENTERLINE
- WL — PROPOSED WORK LIMITS
- PROPOSED ACCESS ROUTE
- PROPOSED RESTORATION AREA

COPCO RESERVOIR ACCESS PLAN QUANTITIES

WORK AREA	PROP. ACCESS (LF)	EX. ACCESS IMPROVEMENT (LF)	PROP. STAGING AREA (SY)
BEAVER CREEK	2,027	0	7,090
DEER CREEK	776	338	6,140

PRELIMINARY DESIGN (NOT FOR CONSTRUCTION) 60% PLAN

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B	ISSUED - 60% RESTORATION DESIGN SUBMITTAL	SMS	JFS	MFA	02/07/20
A	ISSUED - 30% RESTORATION DESIGN SUBMITTAL	SMS	JFS	MFA	10/11/19

WARNING
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PREPARED BY Stantec res

DESIGNED	GH/KB
DRAWN	SMS
REVIEWED	JFS
IN CHARGE	SDP
APPROVED	MFA

PREPARED FOR KLAMATH RIVER RENEWAL CORPORATION

PROJECT	KLAMATH RIVER RENEWAL PROJECT
PROJ #	VA103-640/1
DATE	2020.02.07
SHEET TITLE	COPCO RESERVOIR-ACCESS PLAN
DWG	R2702

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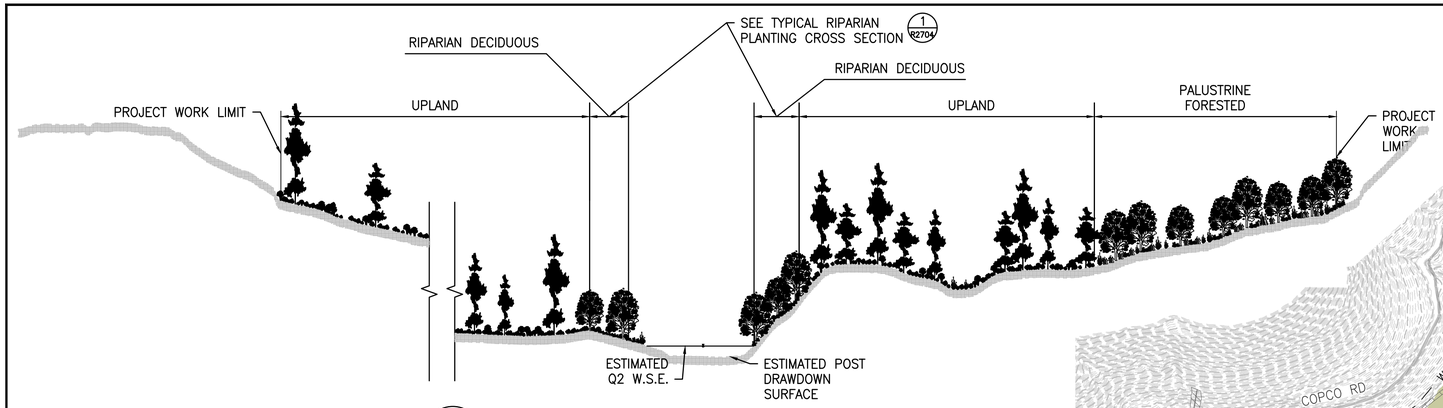


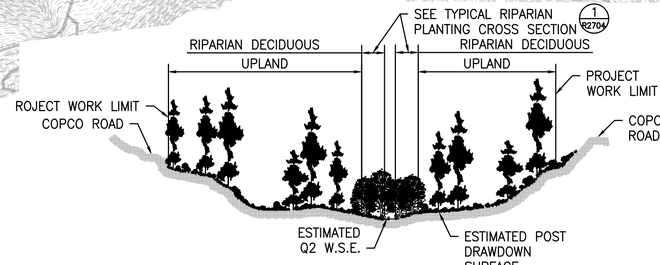
B R2703 SCHEMATIC PLANTING SECTION STA. 288+23

HORIZONTAL: 1" = 100'
(VERTICAL NOT TO SCALE)

NOTES:

1. RESERVOIR DEPENDENT WETLANDS CAN BE USED AS WETLAND VEGETATION HARVEST AREAS.
2. SEE SHEET R0809 FOR REVEGETATION NOTES, QUANTITIES, AND SEED MIXES.
3. SEE SHEETS R0810 AND R0811 FOR REVEGETATION DETAILS.
4. INSTALL IRRIGATION IN RIPARIAN PLANTING ZONES.
5. IT IS POSSIBLE RESERVOIR DEPENDENT WETLANDS MAY CONVERT TO UPLAND BETWEEN DRAWDOWN AND CONSTRUCTION. IT IS EXPECTED THAT IF THEY DO THESE AREAS CAN STILL BE HARVESTED TO ACCESS THE WETLAND SEED BANK.

SEE SHEETS C2258 AND C3200 FOR DISTURBED AREAS WITHIN DAM FOOTPRINTS TO BE SEEDED AS PART OF RESTORATION ACTIVITIES.



A R2703 SCHEMATIC PLANTING SECTION STA. 17+95

HORIZONTAL: 1" = 100'
(VERTICAL NOT TO SCALE)

LEGEND

- PALUSTRINE FORESTED
- PALUSTRINE EMERGENT
- RIPARIAN MIXED DECIDUOUS CONIFEROUS
- RIPARIAN DECIDUOUS
- RIPARIAN SHRUB
- RIPARIAN SEED
- COPCO UPLAND
- RESERVOIR DEPENDENT WETLANDS
- RESERVOIR INDEPENDENT WETLAND

COPCO UNNAMED TRIBUTARY 2
BEAVER CREEK
RAYMOND GULCH
KLAMATH RIVER
PATRICIA AVE
DEER CREEK
COPCO RD

MATCH LINE SEE SHEET R2704

0 300 600 900
HORIZ 1" = 300'

PRELIMINARY DESIGN (NOT FOR CONSTRUCTION) 60% PLAN

REV	DESCRIPTION	BY	CHK	APP	DATE
B	ISSUED - 60% RESTORATION DESIGN SUBMITTAL	SMS	JFS	MFA	02/07/20
A	ISSUED - 30% RESTORATION DESIGN SUBMITTAL	SMS	JFS	MFA	10/11/19

WARNING
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PREPARED BY: Stantec / res

DESIGNED	GH/KB
DRAWN	SMS
REVIEWED	JFS
IN CHARGE	SDP
APPROVED	MFA

PREPARED FOR: KLAMATH RIVER RENEWAL CORPORATION

PROJECT: KLAMATH RIVER RENEWAL PROJECT
PROJ # VA103-640/1
DATE 2020.02.07
SHEET TITLE: COPCO RESERVOIR-PLANTING PLAN 1
DWG R2703

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