

E SCHEMATIC PLANTING SECTION STA. 17+48
 R4705 HORIZONTAL: 1" = 100'
 (VERTICAL NOT TO SCALE)

D SCHEMATIC PLANTING SECTION STA. 231+60
 R4705 HORIZONTAL: 1" = 100'
 (VERTICAL NOT TO SCALE)

LEGEND

- PALUSTRINE FORESTED
- PALUSTRINE EMERGENT
- PALUSTRINE SCRUB SHRUB
- RIPARIAN DECIDUOUS
- RIPARIAN SHRUB
- IRON GATE UPLAND
- RESERVOIR DEPENDENT WETLANDS
- RESERVOIR INDEPENDENT WETLAND

- 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.

PRELIMINARY DESIGN (NOT FOR CONSTRUCTION) 60% PLAN

WARNING

0 1/2 1

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

PREPARED BY	DESIGNED	JM
DRAWN	CW	
REVIEWED	JFS	
IN CHARGE	SDP	
APPROVED	MFA	



PREPARED FOR	PROJECT	KLAMATH RIVER RENEWAL PROJECT
SHEET TITLE		IRON GATE RESERVOIR-PLANTING PLAN 3



PROJ #	VA103-640/1
DATE	2020.02.07
DWG	R4705

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HORIZ 1" = 300'

MATCH LINE SEE SHEET R4705



LEGEND

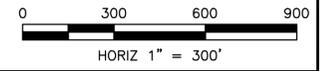
		
PALUSTRINE FORESTED	PALUSTRINE EMERGENT	PALUSTRINE SCRUB SHRUB
		
RIPARIAN DECIDUOUS	RIPARIAN SHRUB	IRON GATE UPLAND
		
RESERVOIR DEPENDENT WETLANDS	RESERVOIR INDEPENDENT WETLAND	

- NOTES:**
1. RESERVOIR DEPENDENT WETLANDS CAN BE USED AS WETLAND VEGETATION HARVEST AREAS.
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 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.



F
R4706
SCHEMATIC PLANTING SECTION STA. 291+48
HORIZONTAL: 1" = 100'
(VERTICAL NOT TO SCALE)

MATCH LINE SEE SHEET R4707



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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IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

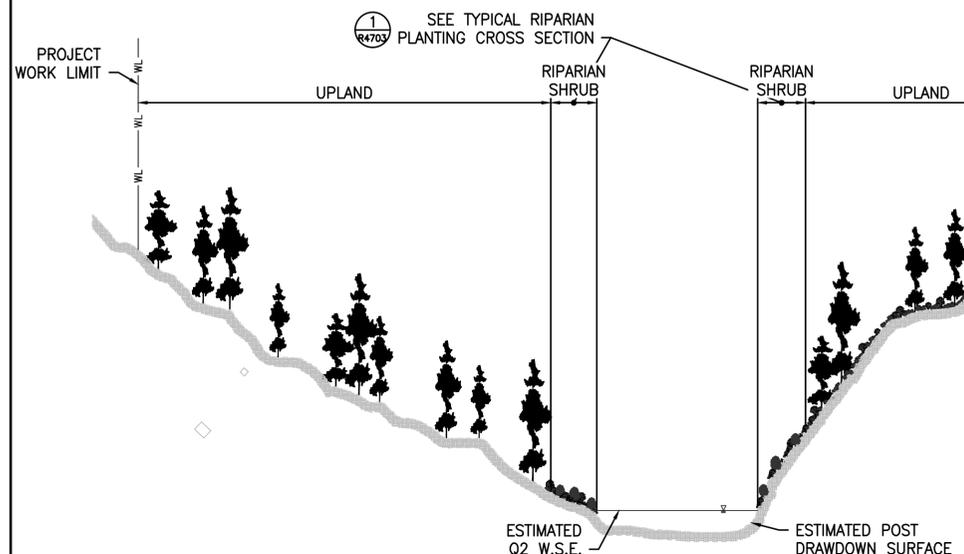
PREPARED BY	DESIGNED	PREPARED FOR
	JM	
	DRAWN	
	REVIEWED	
	IN CHARGE	
	APPROVED	
	CW	
	JFS	
	SDP	
	MFA	

PROJECT	PROJ #
KLAMATH RIVER RENEWAL PROJECT	VA103-640/1
SHEET TITLE	DATE
IRON GATE RESERVOIR-PLANTING PLAN 4	2020.02.07
DWG	
	R4706

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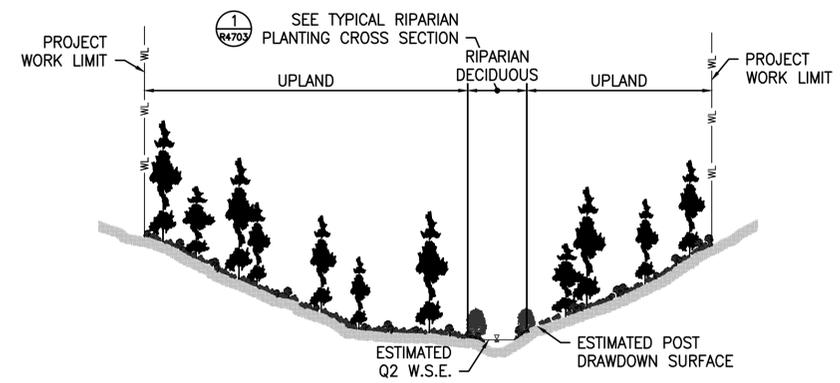


- NOTES:**
1. RESERVOIR DEPENDENT WETLANDS CAN BE USED AS WETLAND VEGETATION HARVEST AREAS.
 2. SEE SHEET R0809 FOR REVEGETATION NOTES, QUANTITIES, AND SEED MIXES.
 3. SEE SHEETS R0810 AND R0811 FOR REVEGETATION DETAILS.
 4. INSTALL IRRIGATION IN RIPARIAN PLANTING ZONES.
 5. IT IS POSSIBLE RESERVOIR 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.



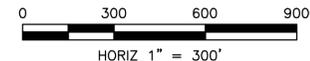
SEE TYPICAL RIPARIAN PLANTING CROSS SECTION R4703

H SCHEMATIC PLANTING SECTION STA. 355+39
R4707 HORIZONTAL: 1" = 100'
(VERTICAL NOT TO SCALE)



SEE TYPICAL RIPARIAN PLANTING CROSS SECTION R4703

G SCHEMATIC PLANTING SECTION STA. 11+76
R4707 HORIZONTAL: 1" = 100'
(VERTICAL NOT TO SCALE)



- LEGEND**
- PALUSTRINE FORESTED
 - PALUSTRINE EMERGENT
 - PALUSTRINE SCRUB SHRUB
 - RIPARIAN DECIDUOUS
 - RIPARIAN SHRUB
 - IRON GATE UPLAND
 - RESERVOIR DEPENDENT WETLANDS
 - RESERVOIR INDEPENDENT WETLAND

SEE SHEETS C4210 FOR DISTURBED AREAS WITHIN DAM FOOTPRINT TO BE SEEDDED AS PART OF RESTORATION ACTIVITIES

PRELIMINARY DESIGN (NOT FOR CONSTRUCTION) 60% PLAN



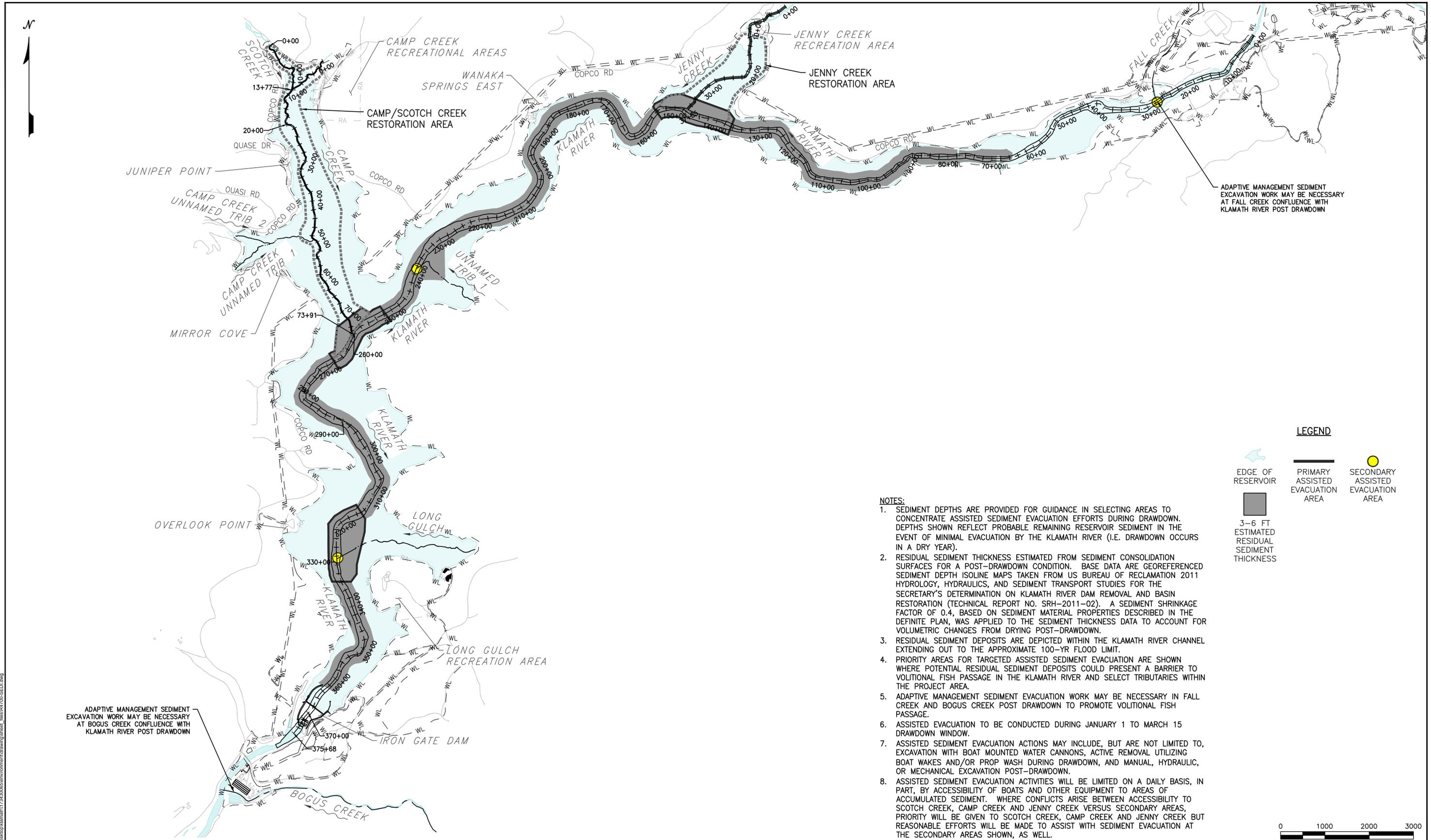
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DRAWN	CW
REVIEWED	JFS
IN CHARGE	SDP
APPROVED	MFA



PROJECT	KLAMATH RIVER RENEWAL PROJECT
SHEET TITLE	IRON GATE RESERVOIR-PLANTING PLAN 5

PROJ #	VA103-640/1
DATE	2020.02.07
DWG	R4707

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ADAPTIVE MANAGEMENT SEDIMENT EXCAVATION WORK MAY BE NECESSARY AT FALL CREEK CONFLUENCE WITH KLAMATH RIVER POST DRAWDOWN

ADAPTIVE MANAGEMENT SEDIMENT EXCAVATION WORK MAY BE NECESSARY AT BOGUS CREEK CONFLUENCE WITH KLAMATH RIVER POST DRAWDOWN

LEGEND

- EDGE OF RESERVOIR
- PRIMARY ASSISTED EVACUATION AREA
- SECONDARY ASSISTED EVACUATION AREA
- SECONDARY ASSISTED EVACUATION AREA
- 3-6 FT ESTIMATED RESIDUAL SEDIMENT THICKNESS

NOTES:

1. SEDIMENT DEPTHS ARE PROVIDED FOR GUIDANCE IN SELECTING AREAS TO CONCENTRATE ASSISTED SEDIMENT EVACUATION EFFORTS DURING DRAWDOWN. DEPTHS SHOWN REFLECT PROBABLE REMAINING RESERVOIR SEDIMENT IN THE EVENT OF MINIMAL EVACUATION BY THE KLAMATH RIVER (I.E. DRAWDOWN OCCURS IN A DRY YEAR).
2. RESIDUAL SEDIMENT THICKNESS ESTIMATED FROM SEDIMENT CONSOLIDATION SURFACES FOR A POST-DRAWDOWN CONDITION. BASE DATA ARE GEOREFERENCED SEDIMENT DEPTH ISOLINE MAPS TAKEN FROM US 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). A SEDIMENT SHRINKAGE FACTOR OF 0.4, BASED ON SEDIMENT MATERIAL PROPERTIES DESCRIBED IN THE DEFINITE PLAN, WAS APPLIED TO THE SEDIMENT THICKNESS DATA TO ACCOUNT FOR VOLUMETRIC CHANGES FROM DRYING POST-DRAWDOWN.
3. RESIDUAL SEDIMENT DEPOSITS ARE DEPICTED WITHIN THE KLAMATH RIVER CHANNEL EXTENDING OUT TO THE APPROXIMATE 100-YR FLOOD LIMIT.
4. PRIORITY AREAS FOR TARGETED ASSISTED SEDIMENT EVACUATION ARE SHOWN WHERE POTENTIAL RESIDUAL SEDIMENT DEPOSITS COULD PRESENT A BARRIER TO VOLITIONAL FISH PASSAGE IN THE KLAMATH RIVER AND SELECT TRIBUTARIES WITHIN THE PROJECT AREA.
5. ADAPTIVE MANAGEMENT SEDIMENT EVACUATION WORK MAY BE NECESSARY IN FALL CREEK AND BOGUS CREEK POST DRAWDOWN TO PROMOTE VOLITIONAL FISH PASSAGE.
6. ASSISTED EVACUATION TO BE CONDUCTED DURING JANUARY 1 TO MARCH 15 DRAWDOWN WINDOW.
7. ASSISTED SEDIMENT EVACUATION ACTIONS MAY INCLUDE, BUT ARE NOT LIMITED TO, EXCAVATION WITH BOAT MOUNTED WATER CANNONS, ACTIVE REMOVAL UTILIZING BOAT WAKES AND/OR PROP WASH DURING DRAWDOWN, AND MANUAL, HYDRAULIC, OR MECHANICAL EXCAVATION POST-DRAWDOWN.
8. ASSISTED SEDIMENT EVACUATION ACTIVITIES WILL BE LIMITED ON A DAILY BASIS, IN PART, BY ACCESSIBILITY OF BOATS AND OTHER EQUIPMENT TO AREAS OF ACCUMULATED SEDIMENT. WHERE CONFLICTS ARISE BETWEEN ACCESSIBILITY TO SCOTCH CREEK, CAMP CREEK AND JENNY CREEK VERSUS SECONDARY AREAS, PRIORITY WILL BE GIVEN TO SCOTCH CREEK, CAMP CREEK AND JENNY CREEK BUT REASONABLE EFFORTS WILL BE MADE TO ASSIST WITH SEDIMENT EVACUATION AT THE SECONDARY AREAS SHOWN, AS WELL.

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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IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

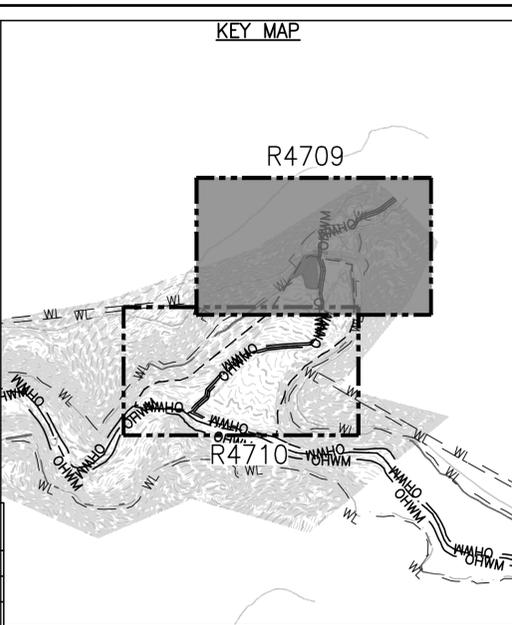
PREPARED BY	DESIGNED	PREPARED FOR
Stantec	JM	KLAMATH RIVER RENEWAL CORPORATION
	DRAWN	
	REVIEWED	
	IN CHARGE	
	APPROVED	

PROJECT	PROJ #
KLAMATH RIVER RENEWAL PROJECT	VA103-640/1
SHEET TITLE	DATE
IRON GATE RESERVOIR-ASSISTED SEDIMENT EVACUATION AREAS	2020.02.07
	DWG
	R4708

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 Plot: R4708-SEDI.dwg

LEGEND

EXISTING CONTOURS	EXISTING STRUCTURES	EXISTING ROAD CENTERLINE	RECREATIONAL AREA LIMITS
PROPOSED RESTORATION AREA	PROPOSED STAGING AREA	RESERVOIR INDEPENDENT WETLAND	RESERVOIR DEPENDENT WETLAND
PROPOSED ACCESS ROUTE	SECURITY FENCE	PROPOSED WORK LIMITS	EDGE OF WATER
EXCESS CUT DISPOSAL AREAS	SILT FENCE	GRADING DAYLIGHT LINE	ORDINARY HIGH WATER MARK

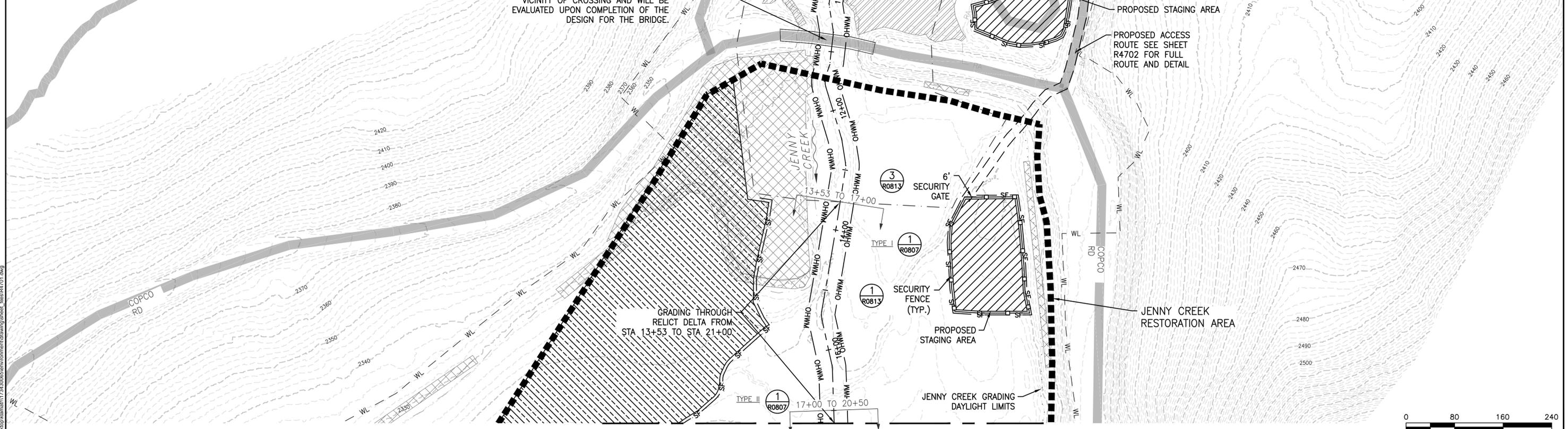


QUANTITIES FOR ENTIRETY OF JENNY CREEK RESTORATION AREA

RESTORATION ITEM	TOTAL	UNIT
BOULDER CLUSTER	162	EA
WILLOW BAFFLES	7	EA
LARGE WOOD ELEMENT: GROUND PLACED	74	EA
LARGE WOOD ELEMENT: HELICOPTER PLACED	138	EA

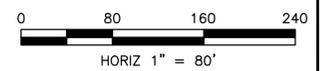
NOTES:

- REFER TO DESIGN REPORT TABLE 8.2 FOR RESTORATION ACTIONS.
- SEE TABLE FOR QUANTITY ESTIMATES.
- 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.



PRELIMINARY DESIGN (NOT FOR CONSTRUCTION) 60% PLAN

MATCH LINE SEE SHEET R4710



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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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IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

PREPARED BY

DESIGNED JM

DRAWN CW

REVIEWED JFS

IN CHARGE SDP

APPROVED MFA

PREPARED FOR

PROJECT

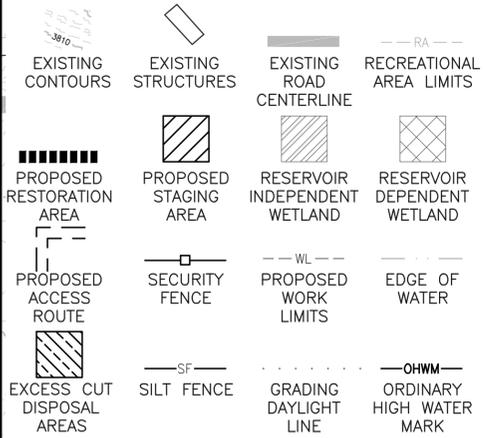
KLAMATH RIVER RENEWAL PROJECT

SHEET TITLE

IRON GATE RESERVOIR-JENNY CREEK PLAN 1

PROJ #	VA103-640/1
DATE	2020.02.07
DWG	R4709

LEGEND

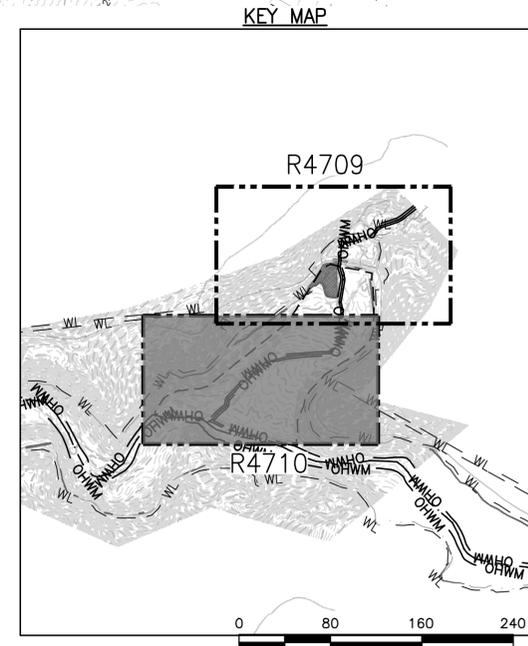
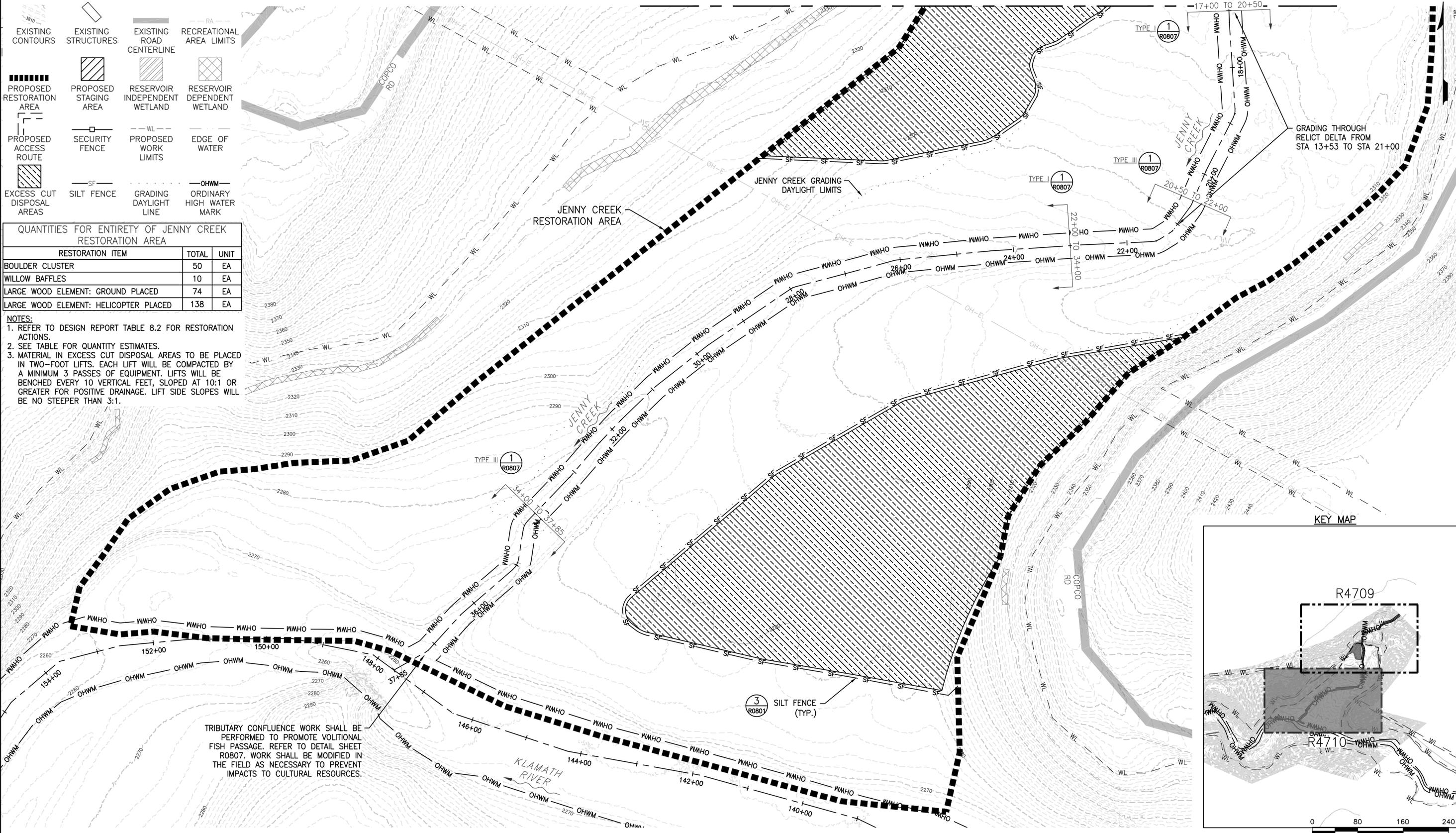


QUANTITIES FOR ENTIRETY OF JENNY CREEK RESTORATION AREA		
RESTORATION ITEM	TOTAL	UNIT
BOULDER CLUSTER	50	EA
WILLOW BAFFLES	10	EA
LARGE WOOD ELEMENT: GROUND PLACED	74	EA
LARGE WOOD ELEMENT: HELICOPTER PLACED	138	EA

- 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 BENCHES EVERY 10 VERTICAL FEET, SLOPED AT 10:1 OR GREATER FOR POSITIVE DRAINAGE. LIFT SIDE SLOPES WILL BE NO STEEPER THAN 3:1.

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

MATCH LINE SEE SHEET R4709



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



PREPARED BY: **Stantec** **ores**

DESIGNED: JM
 DRAWN: CW
 REVIEWED: JFS
 IN CHARGE: SDP
 APPROVED: MFA

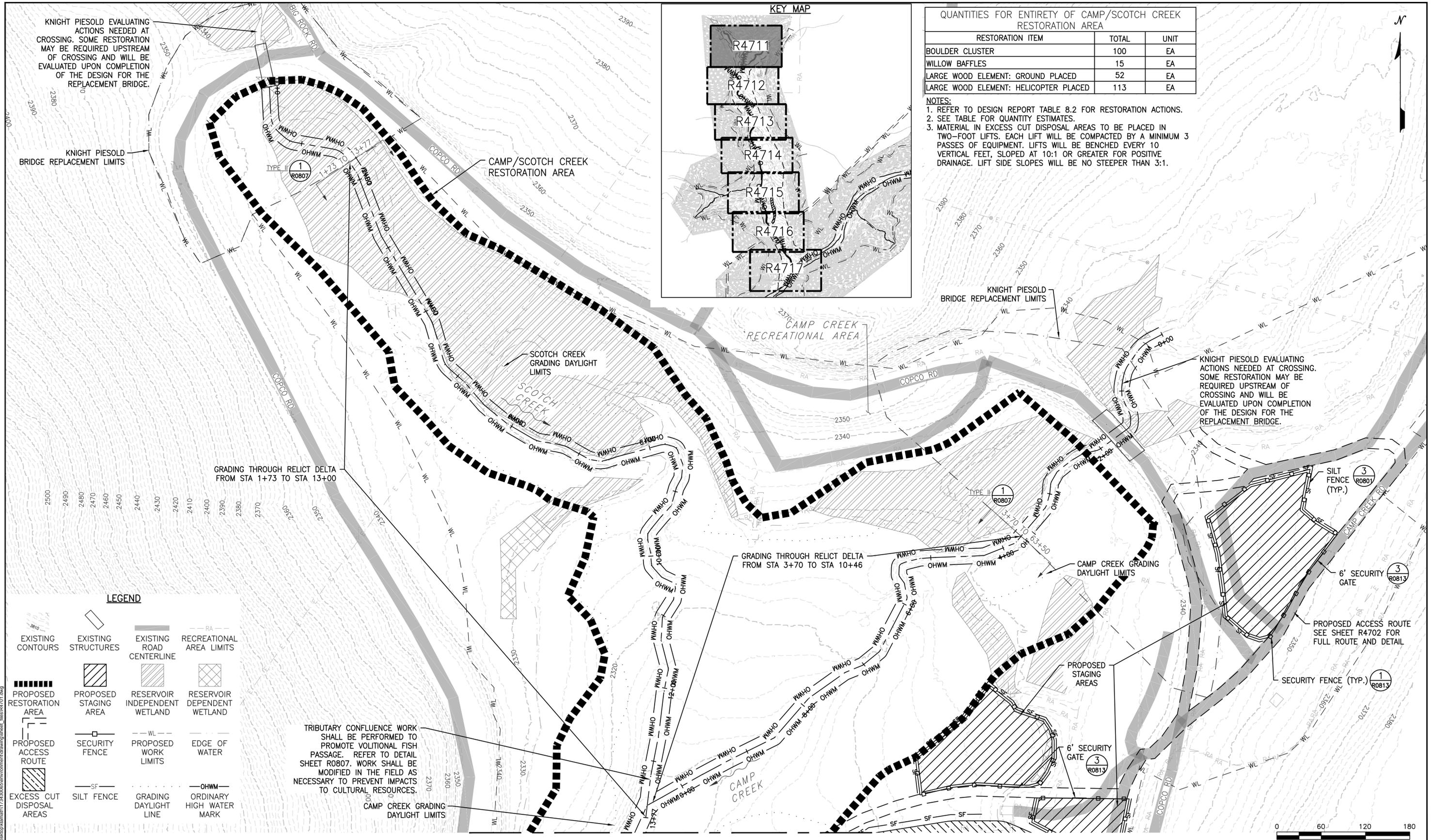
PREPARED FOR: **KLAMATH RIVER RENEWAL CORPORATION**

PROJECT: **KLAMATH RIVER RENEWAL PROJECT**

SHEET TITLE: **IRON GATE RESERVOIR-JENNY CREEK PLAN 2**

PROJ #: VA103-640/1
 DATE: 2020.02.07
 DWG: **R4710**

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 mhammond



PRELIMINARY DESIGN (NOT FOR CONSTRUCTION) 60% PLAN

MATCH LINE SEE SHEET R4712

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

DESIGNED	JM	PREPARED FOR		PROJECT	KLAMATH RIVER RENEWAL PROJECT	PROJ #	VA103-640/1
DRAWN	CW			SHEET TITLE	IRON GATE RESERVOIR-CAMP-SCOTCH CREEK	DATE	2020.02.07
REVIEWED	JFS				PLAN 1	DWG	R4711
IN CHARGE	SDP						
APPROVED	MFA						

PREPARED BY: Stantec Res
 DESIGNED: JM
 DRAWN: CW
 REVIEWED: JFS
 IN CHARGE: SDP
 APPROVED: MFA

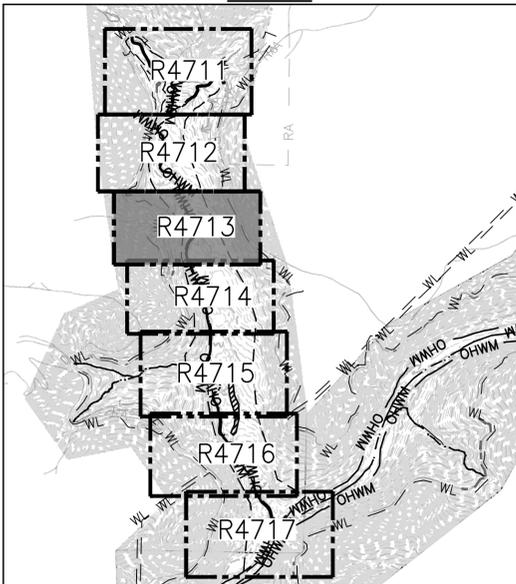
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LEGEND

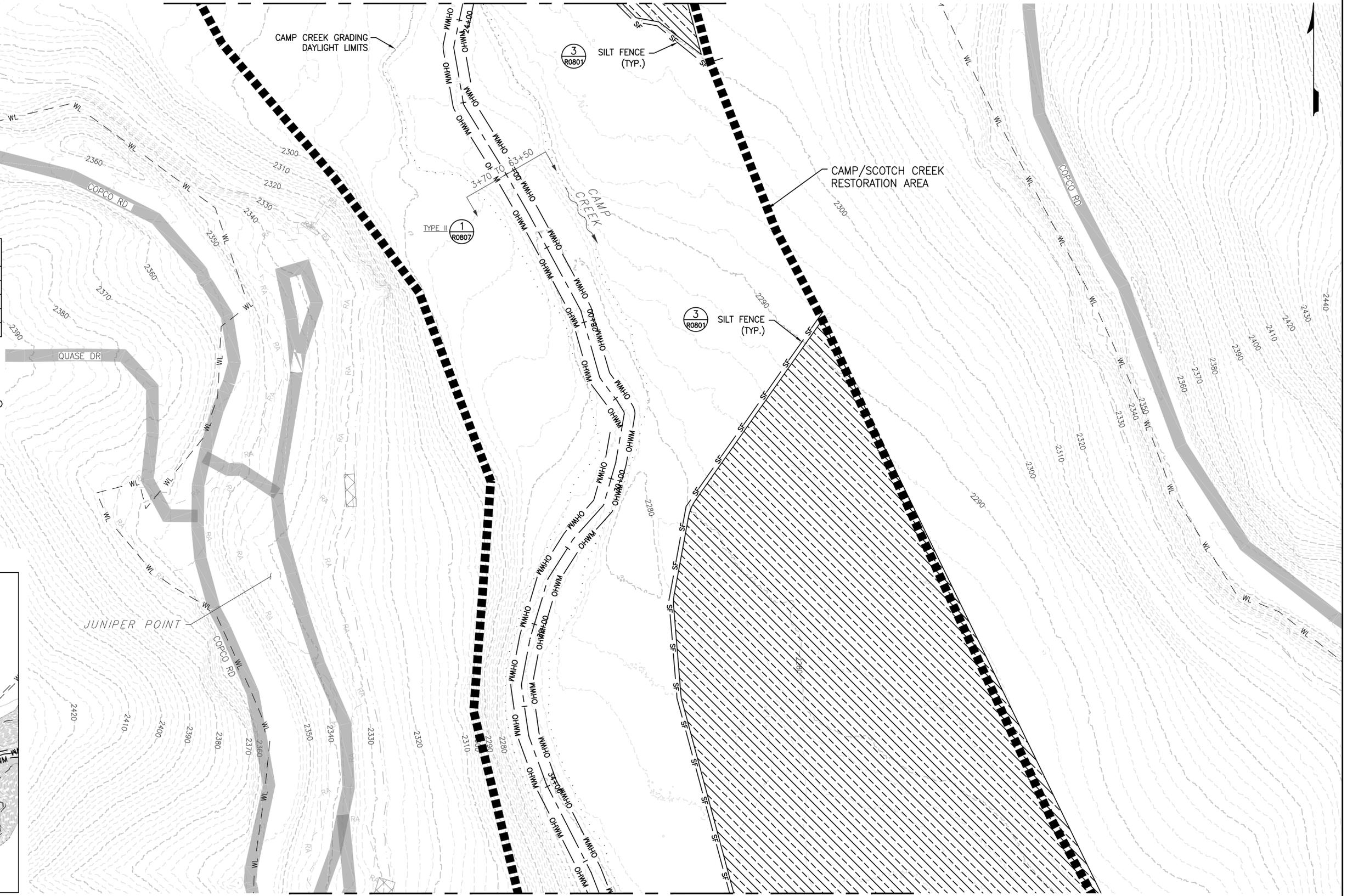
QUANTITIES FOR ENTIRETY OF CAMP/SCOTCH CREEK RESTORATION AREA		
RESTORATION ITEM	TOTAL	UNIT
BOULDER CLUSTER	100	EA
WILLOW BAFFLES	15	EA
LARGE WOOD ELEMENT: GROUND PLACED	52	EA
LARGE WOOD ELEMENT: HELICOPTER PLACED	113	EA

- NOTES:**
- REFER TO DESIGN REPORT TABLE 8.2 FOR RESTORATION ACTIONS.
 - SEE TABLE FOR QUANTITY ESTIMATES.
 - 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 BENCHMARKED EVERY 10 VERTICAL FEET, SLOPED AT 10:1 OR GREATER FOR POSITIVE DRAINAGE. LIFT SIDE SLOPES WILL BE NO STEEPER THAN 3:1.

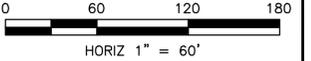
KEY MAP



MATCH LINE SEE SHEET R4712



MATCH LINE SEE SHEET R4714



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

DESIGNED	JM
DRAWN	CW
REVIEWED	JFS
IN CHARGE	SDP
APPROVED	MFA

PREPARED FOR

KLAMATH RIVER RENEWAL CORPORATION

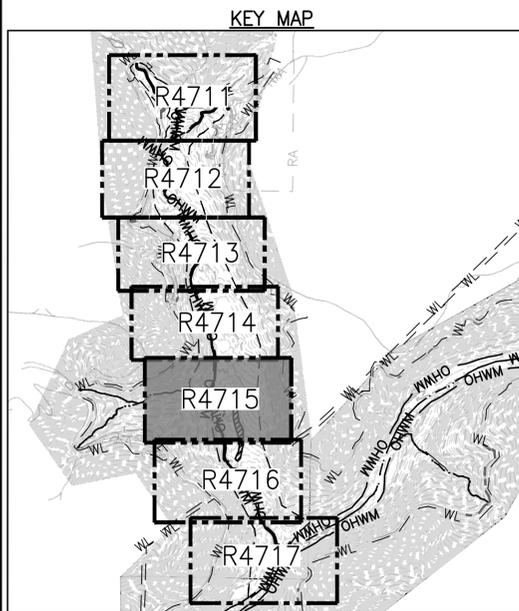
PROJECT	KLAMATH RIVER RENEWAL PROJECT
SHEET TITLE	IRON GATE RESERVOIR-CAMP-SCOTCH CREEK PLAN 3

PROJ #	VA103-640/1
DATE	2020.02.07
DWG	R4713

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LEGEND

QUANTITIES FOR ENTIRETY OF CAMP/SCOTCH CREEK RESTORATION AREA		
RESTORATION ITEM	TOTAL	UNIT
BOULDER CLUSTER	100	EA
WILLOW BAFFLES	15	EA
LARGE WOOD ELEMENT: GROUND PLACED	52	EA
LARGE WOOD ELEMENT: HELICOPTER PLACED	113	EA



- NOTES:**
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MATCH LINE SEE SHEET R4714

MATCH LINE SEE SHEET R4716

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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IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

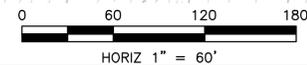


DESIGNED	JM
DRAWN	CW
REVIEWED	JFS
IN CHARGE	SDP
APPROVED	MFA



PROJECT	KLAMATH RIVER RENEWAL PROJECT
SHEET TITLE	IRON GATE RESERVOIR-CAMP-SCOTCH CREEK PLAN 5

PROJ #	VA103-640/1
DATE	2020.02.07
DWG	R4715



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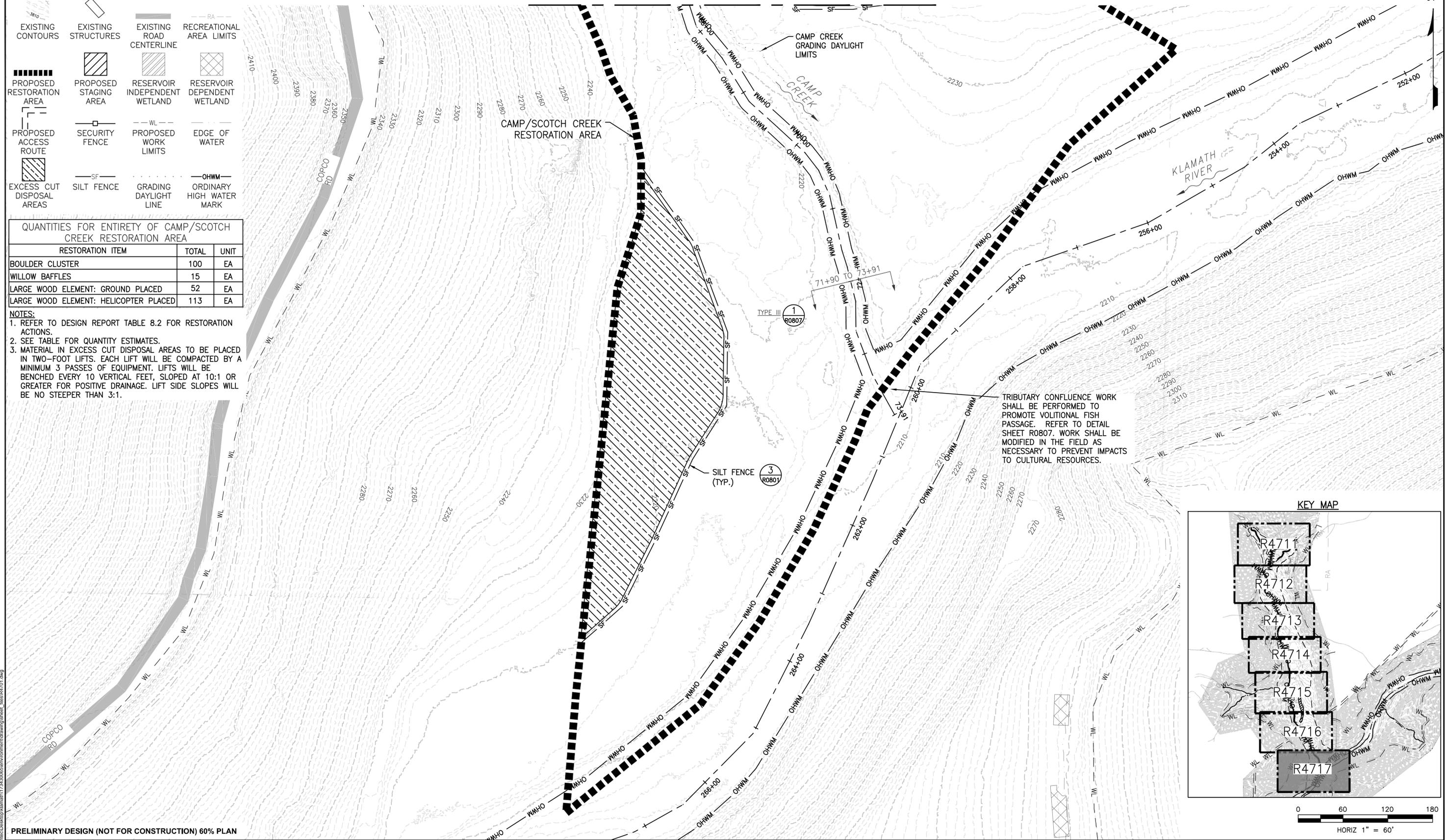
LEGEND

QUANTITIES FOR ENTIRETY OF CAMP/SCOTCH CREEK RESTORATION AREA

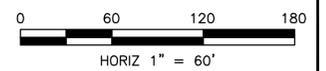
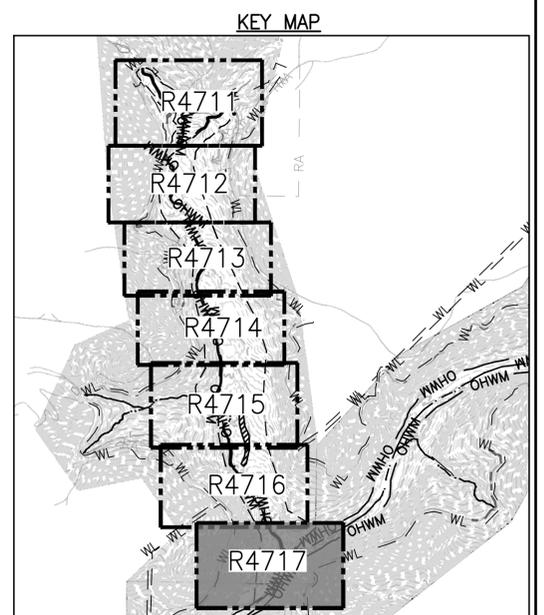
RESTORATION ITEM	TOTAL	UNIT
BOULDER CLUSTER	100	EA
WILLOW BAFFLES	15	EA
LARGE WOOD ELEMENT: GROUND PLACED	52	EA
LARGE WOOD ELEMENT: HELICOPTER PLACED	113	EA

NOTES:
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 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.

MATCH LINE SEE SHEET R4716



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



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:

DESIGNED	JM
DRAWN	CW
REVIEWED	JFS
IN CHARGE	SDP
APPROVED	MFA

PREPARED FOR:

PROJECT	KLAMATH RIVER RENEWAL PROJECT	PROJ #	VA103-640/1
SHEET TITLE	IRON GATE RESERVOIR-CAMP-SCOTCH CREEK PLAN 7	DATE	2020.02.07
		DWG	R4717

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 jml

QUANTITIES FOR ENTIRETY OF LONG GULCH

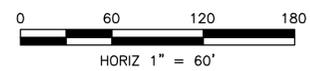
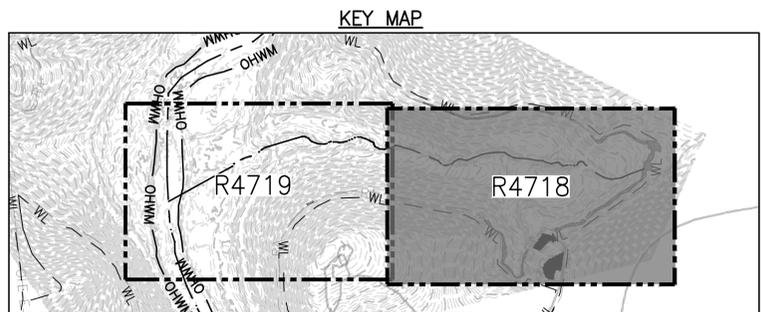
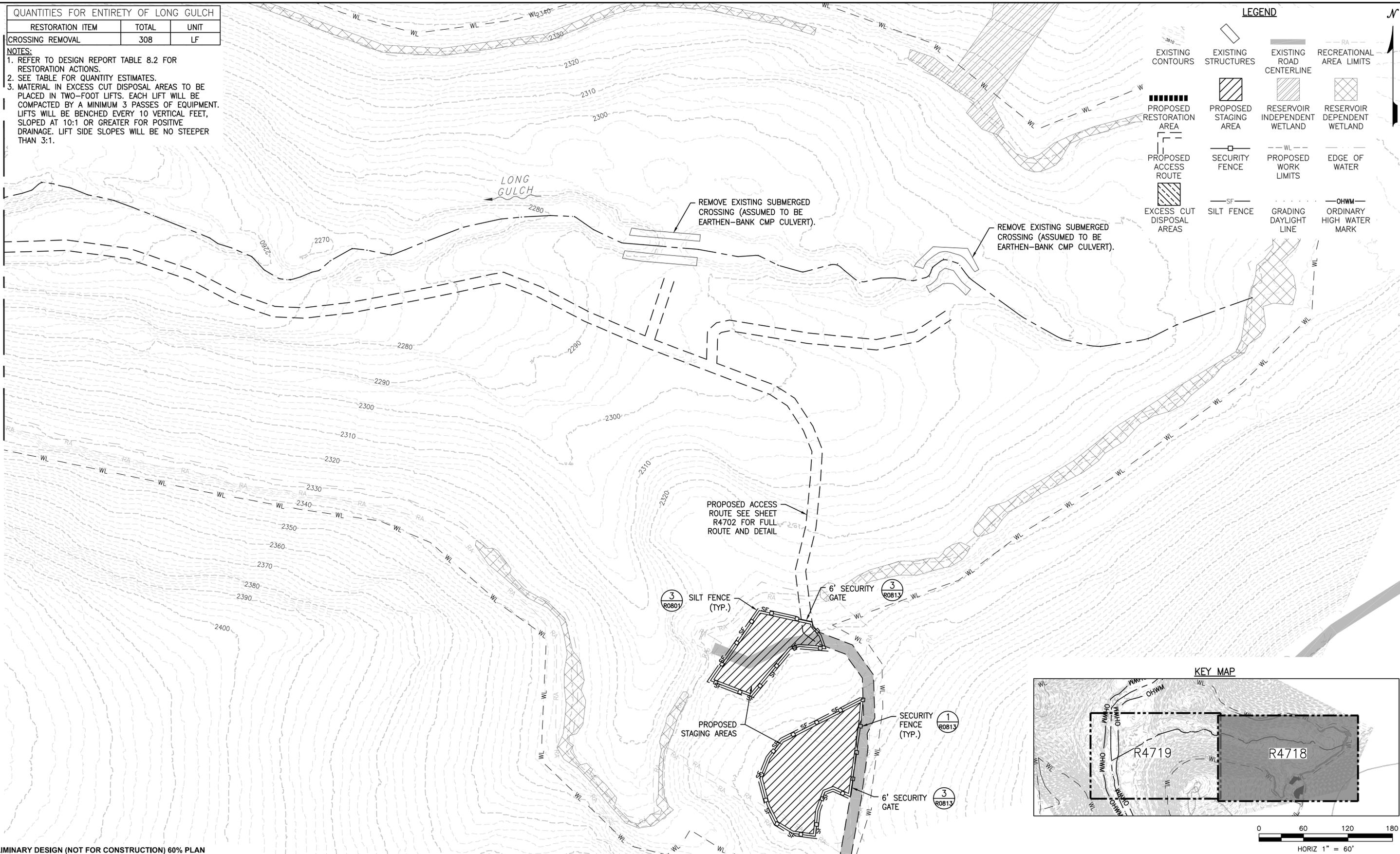
CROSSING REMOVAL	TOTAL	UNIT
	308	LF

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.

LEGEND

EXISTING CONTOURS	EXISTING STRUCTURES	EXISTING ROAD CENTERLINE	RECREATIONAL AREA LIMITS
PROPOSED RESTORATION AREA	PROPOSED STAGING AREA	RESERVOIR INDEPENDENT WETLAND	RESERVOIR DEPENDENT WETLAND
PROPOSED ACCESS ROUTE	SECURITY FENCE	PROPOSED WORK LIMITS	EDGE OF WATER
EXCESS CUT DISPOSAL AREAS	SILT FENCE	GRADING DAYLIGHT LINE	OHWM ORDINARY HIGH WATER MARK

MATCH LINE SEE SHEET R4719



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

DESIGNED	JM
DRAWN	CW
REVIEWED	JFS
IN CHARGE	SDP
APPROVED	MFA

PREPARED FOR

PROJECT	KLAMATH RIVER RENEWAL PROJECT		PROJ #	VA103-640/1
SHEET TITLE	IRON GATE RESERVOIR-LONG GULCH PLAN 1		DATE	2020.02.07
			DWG	R4718

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 jacob@stantec.com



LEGEND

- EXISTING CONTOURS
- EXISTING STRUCTURES
- EXISTING ROAD CENTERLINE
- RECREATIONAL AREA LIMITS
- PROPOSED RESTORATION AREA
- PROPOSED STAGING AREA
- RESERVOIR INDEPENDENT WETLAND
- RESERVOIR DEPENDENT WETLAND
- PROPOSED ACCESS ROUTE
- SECURITY FENCE
- PROPOSED WORK LIMITS
- EDGE OF WATER
- EXCESS CUT DISPOSAL AREAS
- SILT FENCE
- GRADING DAYLIGHT LINE
- ORDINARY HIGH WATER MARK

QUANTITIES FOR ENTIRETY OF LONG GULCH		
RESTORATION ITEM	TOTAL	UNIT
CROSSING REMOVAL	308	LF

- NOTES:**
- REFER TO DESIGN REPORT TABLE 8.2 FOR RESTORATION ACTIONS.
 - SEE TABLE FOR QUANTITY ESTIMATES.
 - 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.

PRELIMINARY DESIGN (NOT FOR CONSTRUCTION) 60% PLAN

WARNING

0 1/2 1

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

PREPARED BY

DESIGNED JM

DRAWN CW

REVIEWED JFS

IN CHARGE SDP

APPROVED MFA

PREPARED FOR

PROJECT	KLAMATH RIVER RENEWAL PROJECT	PROJ #	VA103-640/1
SHEET TITLE	IRON GATE RESERVOIR-LONG GULCH PLAN 2	DATE	2020.02.07
			DWG
			R4719

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