RESTORATION PLAN
OWL CREEK RESTORATION PROJECT
CONDON, MONTANA

PROJECT PARTNER

U.S. FISH AND WILDLIFE SERVICE
MR. GREG NEUDECKER
405 MAIN STREET
OVANDO, MT 59854

SWAN ECOSYSTEM CENTER
6887 HIGHWAY 83 SOUTH
CONDON, MT 59826

PROJECT DESCRIPTION

THIS DESIGN REPRESENTS A RESTORATION PLAN FOR OWL CREEK NEAR CONDON, MONTANA. THE PRIMARY OBJECTIVE OF THE DESIGN IS TO RESTORE OWL CREEK TO A FUNCTIONING STREAM CHANNEL CAPABLE OF TRANSPORTING FLOWS AND SEDIMENT AND PROVIDING HIGH QUALITY HABITAT FOR THE TARGET FISH SPECIES. THE PLAN WILL ADDRESS OTHER LIMITING FACTORS INCLUDING FISH PASSAGE AND STREAM TEMPERATURE BY INCORPORATING A STREAM SIMULATION CULVERT DESIGN AND ISOLATING THE EXISTING ON-STREAM WETLANDS FROM THE MAIN OWL CREEK CHANNEL. ALL UNNECESSARY ROAD FILLS THAT ARE CURRENTLY IMPACTING CHANNEL, FLOODPLAIN, AND RIPARIAN FUNCTIONS WILL BE REMOVED AND DISTURBED AREAS WILL BE RE-CONTOURED AND STABILIZED. DISTURBED FLOODPLAIN SURFACES WILL BE RECLAIMED AND ACCESS TO THE CURRENT PASTURE WILL BE PROVIDED TO ACCOMMODATE EXISTING LAND USES.

BENCHMARK

SURVEY CONTROL WAS ESTABLISHED UNDER THE RESPONSIBLE CHARGE OF ANDREW BELSKI, PLS 14731.
THE PROJECT COORDINATES ARE BASED ON THE FOLLOWING:

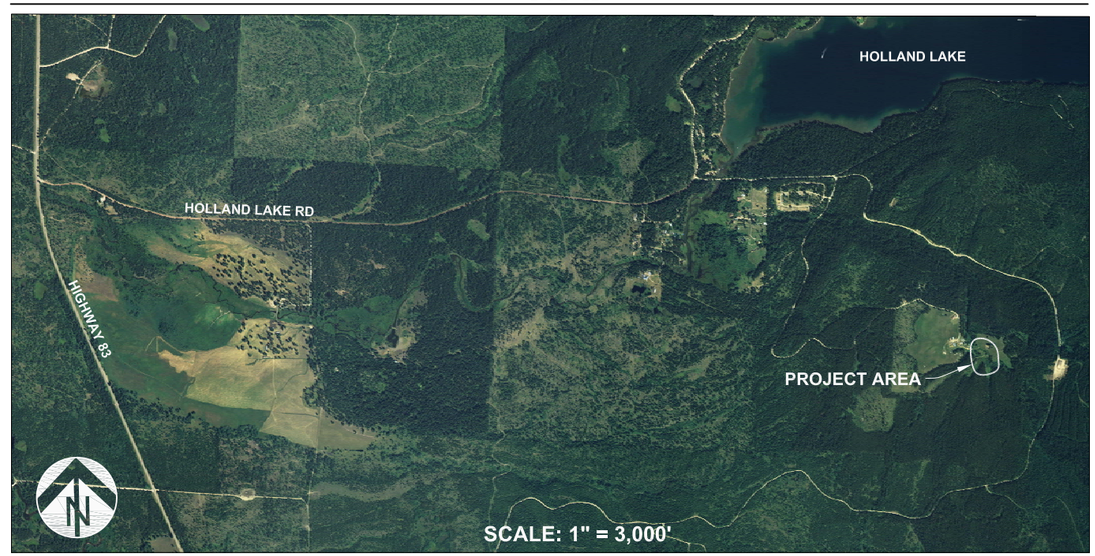
HORIZONTAL PROJECTION:	MONTANA STATE PLANE
HORIZONTAL DATUM:	NAD83 (NORTH AMERICAN DATUM OF 1983)
HORIZONTAL UNITS:	US SURVEY FEET (GRID)
VERTICAL DATUM:	NAVD88 GEOID 09

TMB 1000: NORTHING: 1186728.783
EASTING: 955859.267
ELEVATION: 4193.277

DRAWING INDEX

CP-1 COVER PAGE AND NOTES
SP-1 SPECIFICATIONS
EC-1 EXISTING CONDITIONS - PLAN VIEW
EC-2 EXISTING CONDITIONS - PHOTOS
PV-1 PLAN VIEW INDEX
PP-1 PLAN AND PROFILE - REACH 1
PP-2 PLAN AND PROFILE - REACH 2
PP-3 PLAN AND PROFILE - REACH 3 & 4
TC-1 TYPICAL DESIGN CROSS SECTIONS - REACH 1 & 2
TC-1 TYPICAL DESIGN CROSS SECTIONS - REACH 3 & 4
DT-1 LARGE WOOD HABITAT STRUCTURE
DT-2 SINGLE VEGETATED SOIL LIFT WITH BRUSH LAYERING
DT-3 DOUBLE VEGETATED SOIL LIFT WITH BRUSH LAYERING
DT-4 SOD MAT BRUSH BANK DETAIL
DT-5 CONSTRUCTED RIFFLE DETAIL
DT-6 ROCK STEP-POOL DETAIL
DT-7 ROCK ENERGY DISSIPATER STRUCTURE
DT-8 TYPICAL STRUCTURE LAYOUT
DT-9 STREAM SIMULATION PIPE - ARCH CROSSING DETAIL
MT-1 MATERIALS LIST

PROJECT VICINITY MAP



LEGAL DESCRIPTION: NE $\frac{1}{4}$ SE $\frac{1}{4}$ SECTION 2, T19N R16W, P.M., M. MISSOULA COUNTY, MONTANA

RIVER DESIGN GROUP, INC.
5098 Hwy 93 South
Whitefish, MT 59937
tel.406.862.4927
fax.406.862.4963
311 SW Jefferson Avenue
Corvallis, OR 97333
tel.541.738.2920
fax.541.738.8324

COVER PAGE AND NOTES
Owl Creek Restoration Project
Condon, Montana

NO.	DATE	BY	DESCRIPTION	CHK
1	1-10-11	NW	Design	JM
2	7-20-11	NW	RESTORATION PLAN	JM

PROJECT NUMBER
RDG-10-068

SHEET NUMBER
CP-1