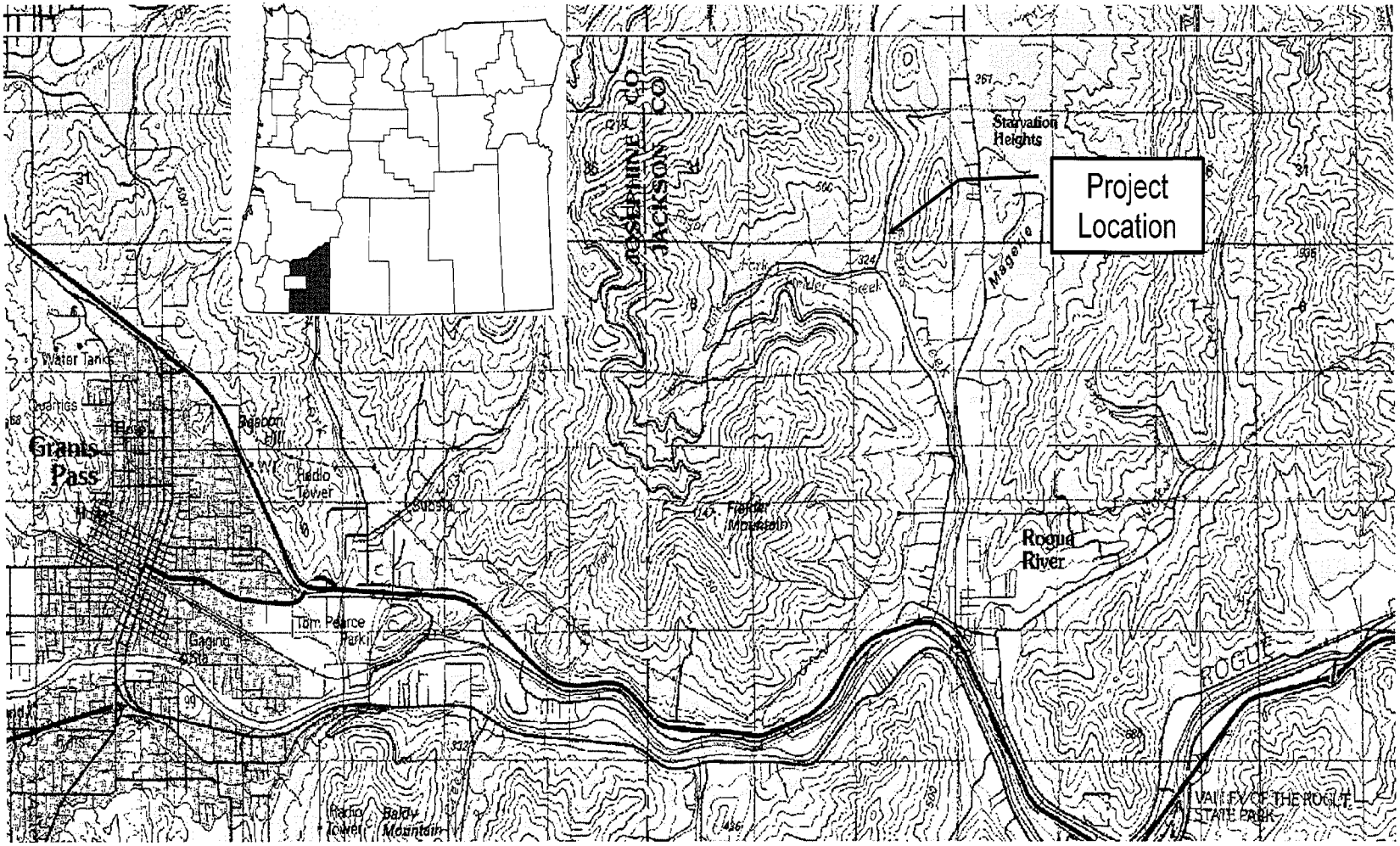
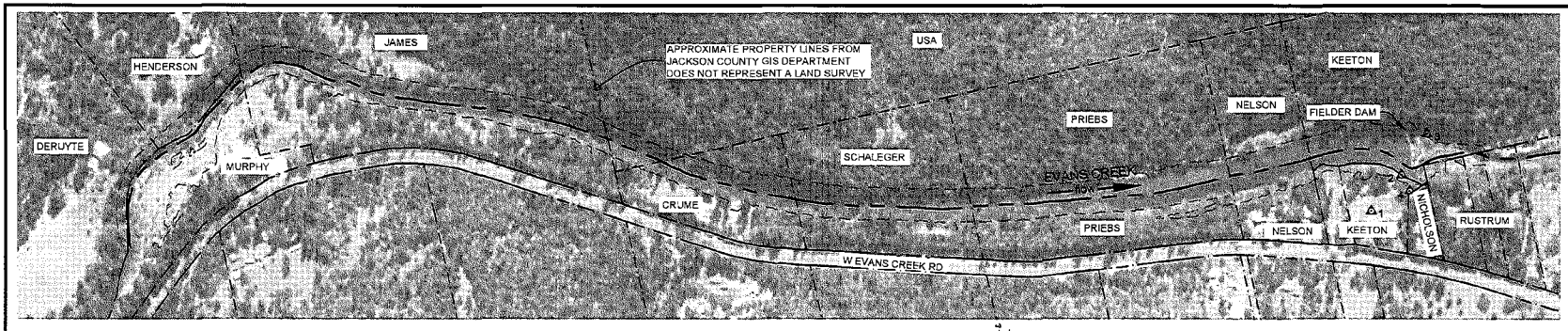


Location map of Fielder Dam removal project.



1 EXISTING SITE LAYOUT

1" = 400'

STREAM REACH CHARACTERISTICS

DRAINAGE AREA	210 SQ. MILES
AVERAGE REACH SLOPE	0.0041 FT/FT
ACTIVE CHANNEL WIDTH	35' - 45'
2-YEAR FLOW	8,180 cfs
10-YEAR FLOW	15,200 cfs
25-YEAR FLOW	18,900 cfs
50-YEAR FLOW	21,600 cfs
100-YEAR FLOW	24,300 cfs
IN WATER WORK PERIOD	JUNE 15TH - SEPT 15TH

CONTROL NETWORK

POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	306590.33	4197523.06	1061.72	set rdg
2	306441.24	4197632.44	1041.78	set rdg
3	306307.80	4197764.38	1035.97	pk nail
4	306424.90	4197564.54	1054.02	set cap

NOTE:
INFORMATION IS NOT A LAND SURVEY AND IS PRIMARILY A TOPOGRAPHIC ANALYSIS FOR RESTORATION DESIGN PURPOSES

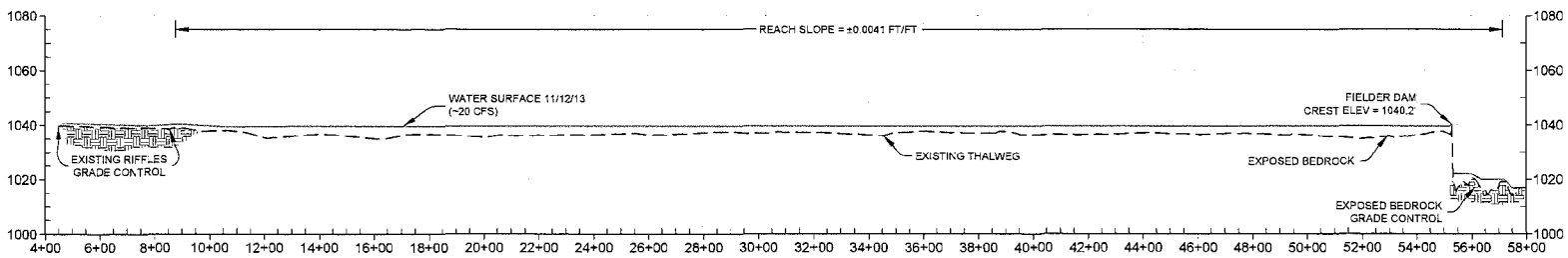
COORDINATE SYSTEM: OREGON STATE PLANE SOUTH
HORIZ DATUM: NAD83 (2011)
VERT DATUM: NAVD88 (GEOID 12A)
UNITS: U.S. SURVEY FEET

FIELDER DAM CHARACTERISTICS

- CONCRETE BUTTRESS CONSTRUCTION
- LENGTH OF CREST ~259 FT
- HEIGHT OF DAM 18 FT - 23 FT
- CONCRETE VOLUME ± 550 CY

ESTIMATED STORED SEDIMENT

A PORTION OF THE SEDIMENT WITHIN THE RESERVOIR WILL MOBILIZE ONCE THE DAM IS REMOVED. THE EXISTING RIVER CHANNEL WIDTH RANGES BETWEEN 25 FT AND 35 FT. MOBILE SEDIMENT VOLUME IN THE RESERVOIR WAS DETERMINED BY ESTIMATING THE SLOPE OF THE RIVER AFTER DAM REMOVAL AND USING A TYPICAL CHANNEL SECTION THROUGH THE RESERVOIR AREA AT THE ESTIMATED SLOPE. THE MOBILE SEDIMENT VOLUME IS ESTIMATED AT 16,500-20,500 CUBIC YARDS.



2 EXISTING LONG PROFILE

HORIZ 1" = 400'
VERT 1" = 40'

ISSUED FOR PERMITS

RIVER DESIGN GROUP, INC.
236 Wisconsin Avenue
Whitefish, MT 59937
406.862.4927
311 SW Jefferson Avenue
Corvallis, OR 97333
541.738.2920

EXISTING SITE LAYOUT

DECONSTRUCTION, FISH PASSAGE, AND RESTORATION

EVANS CREEK - ROGUE RIVER, OREGON

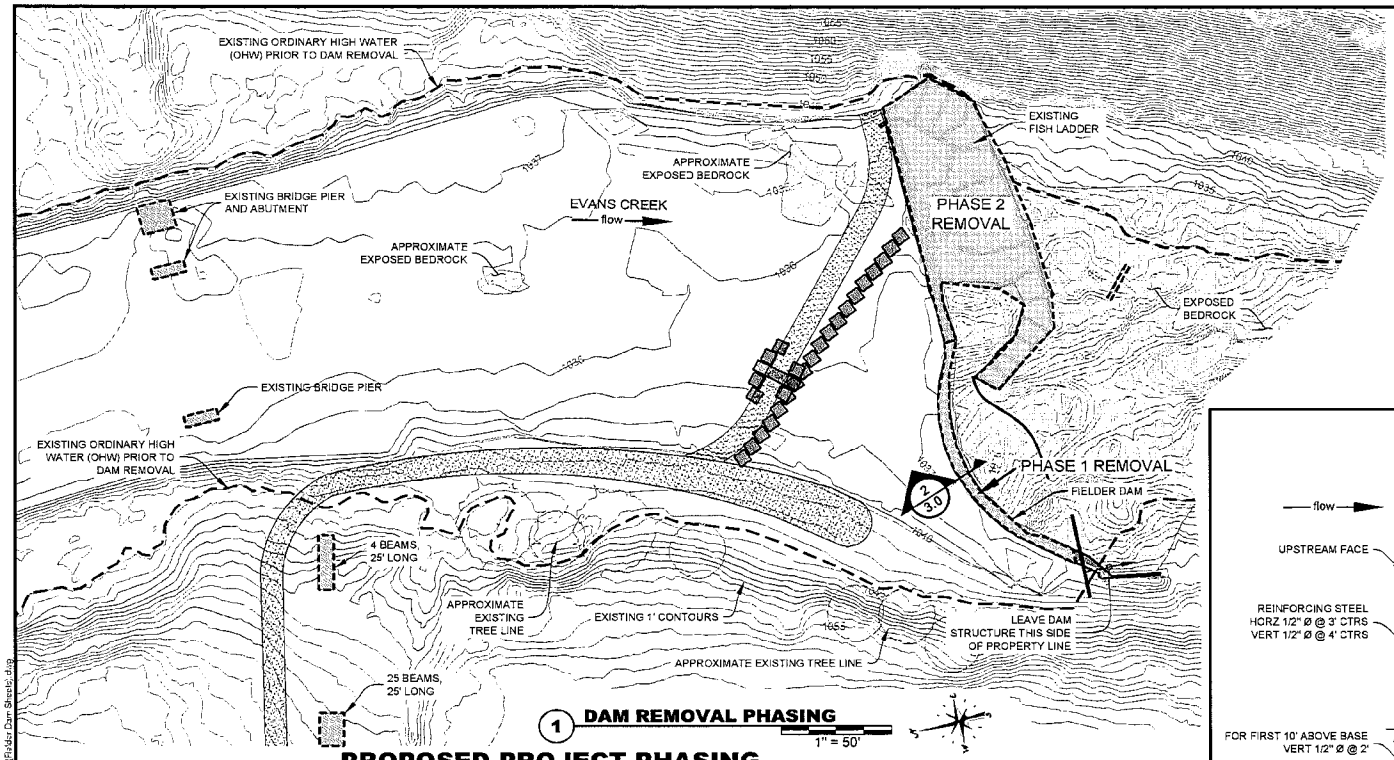
NO.	DATE	BY	DESCRIPTION	CHK
-	10/31/14	TF	ISSUED FOR PERMITS	SW

PROJECT NUMBER RDG-13-092

DRAWING NUMBER 2.0

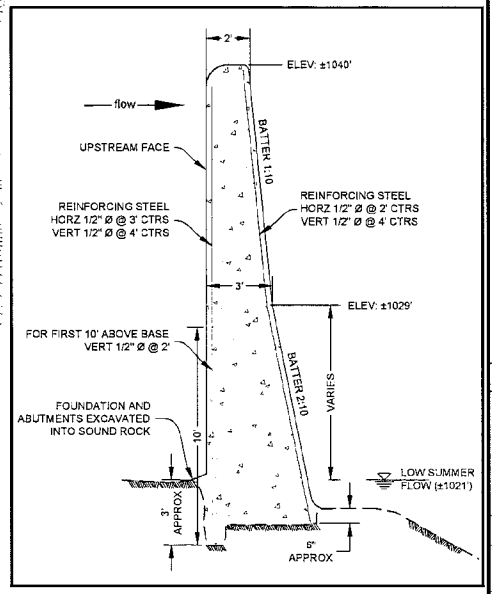
Drawing 2 of 16

Oct 29 2014 - 1:35pm M:\CAD-Data\2013\RDG-13-092 Fielder Dam Removal.dwg\civil3d\10\Fielder Dam Sheets).dwg



1 DAM REMOVAL PHASING

1" = 50'



2 TYPICAL CONCRETE ARCH SECTION

HORIZ 1" = 5'
VERT 1" = 5'

PROPOSED PROJECT PHASING

PHASE 1

1.1 INSTALL TRAFFIC SAFETY FEATURES IN ACCORDANCE WITH DRAWING 2.1.

1.2 MOBILIZE CONSTRUCTION EQUIPMENT AND FACILITIES ON SITE.

1.3 IMPROVE EXISTING TEMPORARY ROAD NETWORK TO PROVIDE SITE ACCESS TO THE EXISTING DAM PER DRAWING 2.1.

1.4 INSTALL TEMPORARY SAND BAGS/BULK BAGS UPSTREAM OF DAM TO TEMPORARILY DIVERT STREAM FLOW THROUGH EXISTING FISH LADDER OR SLIDE GATE. ISOLATE CONCRETE STRUCTURE FOR REMOVAL.

1.5 INSTALL TEMPORARY FLOATING SILT CURTAIN DOWNSTREAM OF WORK ZONE TO RETAIN ANY SUSPENDED SEDIMENT FROM DAM REMOVAL ACTIVITIES.

1.6 PERFORM FISH SALVAGE IN ISOLATED AREA.

1.7 REMOVE ISOLATED PORTION OF DAM BEGINNING AT THE CENTER OF THE CHANNEL AND MOVING TOWARDS THE RIVER-RIGHT BANK. CONCRETE RUBBLE TO BE HAULED OFFSITE TO APPROVED DISPOSAL LOCATION, APPROXIMATELY ±370 CUBIC YARDS OF CONCRETE.

1.8 GRADE FISH PASSAGE CHANNEL THROUGH DAM SITE PER DRAWINGS 3.5 AND 3.6 (± 4,550 CY). USE EXCAVATED MATERIAL TO FILL DOWNSTREAM SCOUR POOL. ADDITIONAL EXCESS EXCAVATED MATERIAL TO BE PLACED ADJACENT TO FISH PASSAGE CHANNEL OR BE HAULED FROM SITE.

1.9 ACTIVATE FISH PASSAGE CHANNEL BY REMOVING PHASE 1 SAND BAGS/BULK BAGS.

1.10 REMOVE REMAINING PHASE 1 WORK AREA ISOLATION MEASURES.

PHASE 2

2.1 INSTALL TEMPORARY CULVERT CROSSING AND TEMPORARY ACCESS ROAD TO ACCESS RIVER-LEFT PORTION OF DAM AND FISH LADDER STRUCTURE.

2.2 REMOVE LEFT PORTION OF DAM AND FISH LADDER STRUCTURE. ALL RUBBLE TO BE HAULED OFFSITE TO APPROVED DISPOSAL LOCATION. APPROXIMATELY ±180 CUBIC YARDS CONCRETE.

2.3 REMOVE EXISTING BRIDGE I-BEAMS, DECKING, CONCRETE ABUTMENT, AND DEBRIS.

2.3 PERFORM STREAM RESTORATION ACTIVITIES.

2.4 REMOVE REMAINING PROJECT ISOLATION MEASURES, TEMPORARY BRIDGE AND ASSOCIATED FOOTINGS.

ISSUED FOR PERMITS

RIVER DESIGN GROUP, INC.
236 Wisconsin Avenue
Whitefish, MT 59937
406.862.4927
311 SW Jefferson Avenue
Corvallis, OR 97333
541.738.2920

DAM REMOVAL PHASING

DECONSTRUCTION, FISH PASSAGE, AND RESTORATION

EVANS CREEK - ROGUE RIVER, OREGON

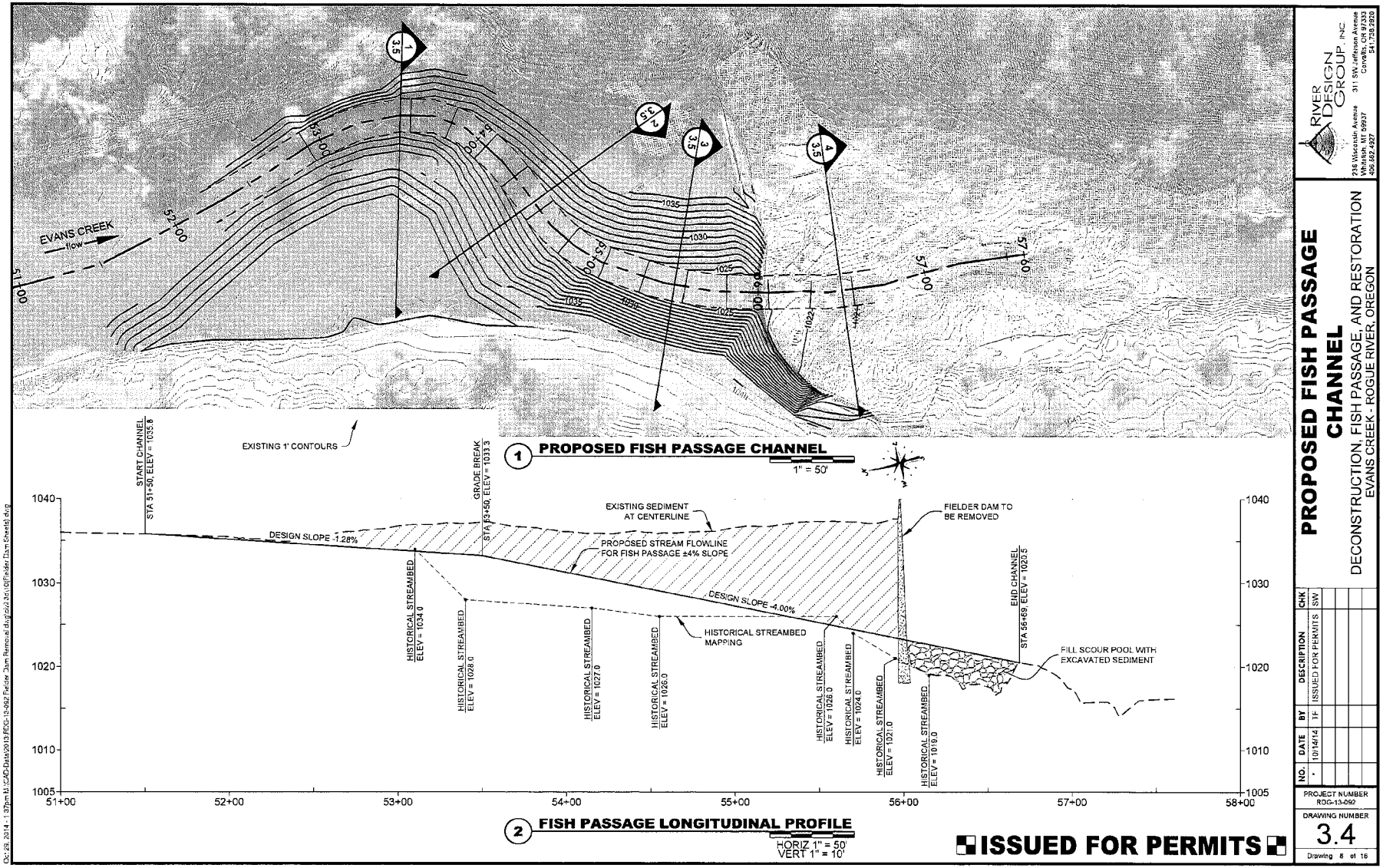
NO.	DATE	BY	DESCRIPTION	CHK
*	10/31/14	TF	ISSUED FOR PERMITS	SW

PROJECT NUMBER RDG-13-092

DRAWING NUMBER 3.0

Drawing 4 of 16

Oct 29, 2014 - 1:36pm M:\CAD-Data\2013\RDG-13-092 Fielder Dam Removal.dwg cl-J 36x10(Fielder Dam Sheets).dwg



EVANS CREEK
flow
51+00
52+00
53+00
54+00
55+00
56+00
57+00
57+60
1035
1030
1025
1022
EXISTING 1' CONTOURS
1 PROPOSED FISH PASSAGE CHANNEL
1" = 50'
START CHANNEL
STA 51+50, ELEV = 1035.8
GRADE BREAK
STA 53+50, ELEV = 1033.3
EXISTING SEDIMENT
AT CENTERLINE
FIELDER DAM TO
BE REMOVED
DESIGN SLOPE -1.28%
PROPOSED STREAM FLOWLINE
FOR FISH PASSAGE ±4% SLOPE
DESIGN SLOPE -4.00%
HISTORICAL STREAMBED
MAPPING
END CHANNEL
STA 56+69, ELEV = 1020.5
FILL SCOUR POOL WITH
EXCAVATED SEDIMENT
HISTORICAL STREAMBED
ELEV = 1034.0
HISTORICAL STREAMBED
ELEV = 1028.0
HISTORICAL STREAMBED
ELEV = 1027.0
HISTORICAL STREAMBED
ELEV = 1026.0
HISTORICAL STREAMBED
ELEV = 1026.0
HISTORICAL STREAMBED
ELEV = 1024.0
HISTORICAL STREAMBED
ELEV = 1021.0
HISTORICAL STREAMBED
ELEV = 1019.0
1040
1030
1020
1010
1005
51+00
52+00
53+00
54+00
55+00
56+00
57+00
58+00
2 FISH PASSAGE LONGITUDINAL PROFILE
HORIZ 1" = 50'
VERT 1" = 10'
ISSUED FOR PERMITS
RIVER DESIGN GROUP, INC.
236 Wisconsin Avenue
Whitefish, MT 59937
406.862.4927
311 SW Jefferson Avenue
Corvallis, OR 97333
541.738.2920
PROPOSED FISH PASSAGE CHANNEL
DECONSTRUCTION, FISH PASSAGE, AND RESTORATION
EVANS CREEK - ROGUE RIVER, OREGON
NO.
DATE
BY
DESCRIPTION
CHK
10/14/14
TF
ISSUED FOR PERMITS
SW
PROJECT NUMBER
RDG-13-092
DRAWING NUMBER
3.4
Drawing 8 of 16