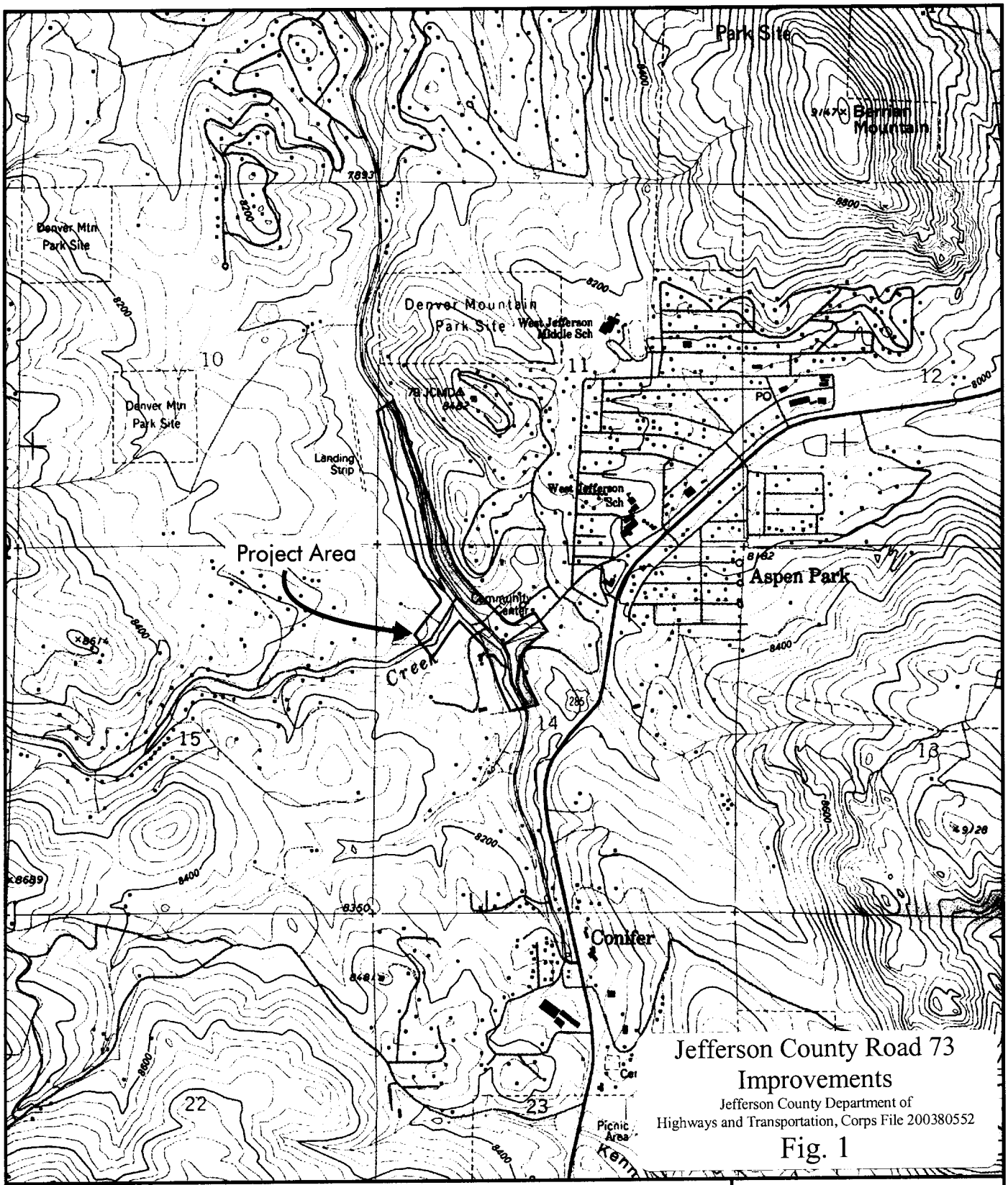


ERO

ERO Resources Corp.
1842 Clarkson Street
Denver, CO 80218
(303) 830-1188
Fax: 830-1199

CR 73 Improvement Project
NW 1/4 Section 14, T6S, R71W
UTM Coordinates: Zone 13; 4375400mN, 473300mE
Conifer Quadrangle,
Jefferson County, Colorado

N

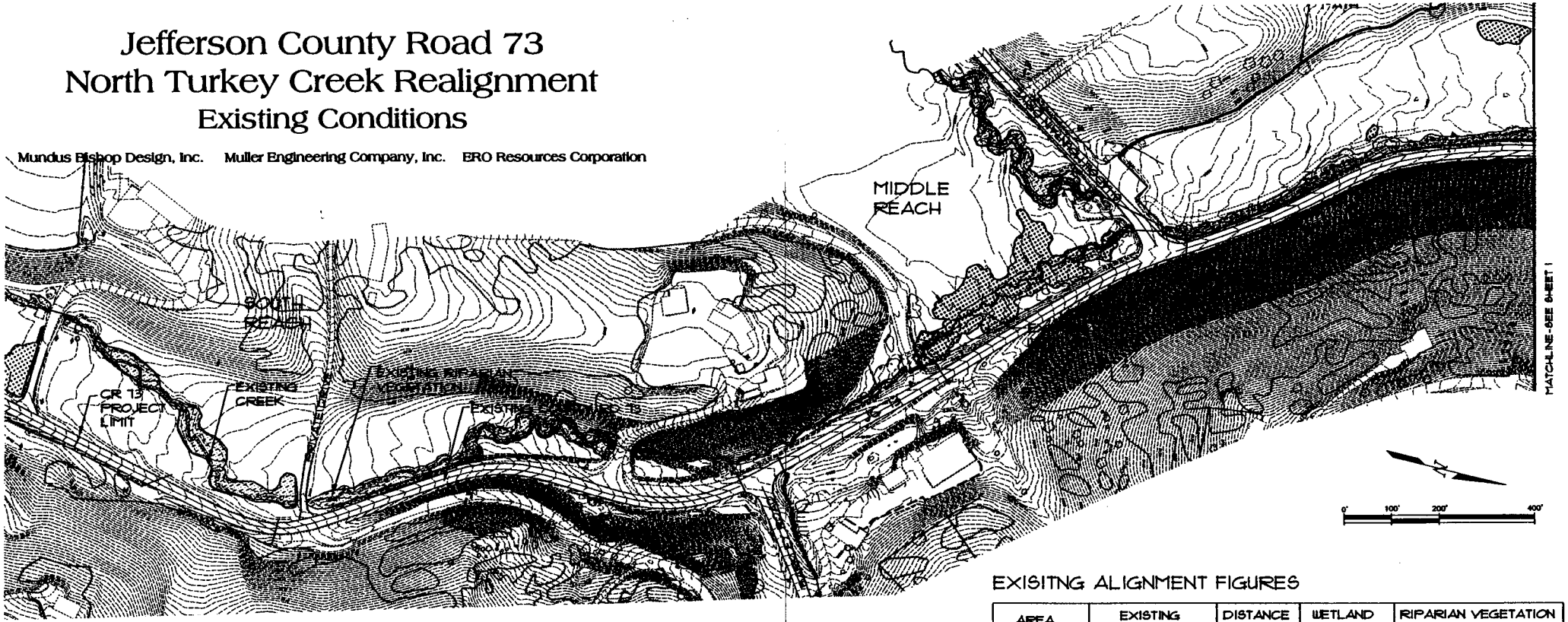
1 Inch = 2,000 Feet

Figure 1
Site Location

Prepared for: Muller Engineering
File: 2278 Fig1.cdr
December 2003

Jefferson County Road 73
North Turkey Creek Realignment
Existing Conditions

Mundus Bishop Design, Inc. Muller Engineering Company, Inc. ERO Resources Corporation



LEGEND

EXISTING CREEK

EXISTING RIPARIAN VEGETATION

EXISTING WETLANDS

EXISITNG ALIGNMENT FIGURES

AREA	EXISTING SINUOSITY INDEX	DISTANCE (FT)	WETLAND (ACRES)	RIPARIAN VEGETATION (ACRES)
NORTH REACH (A)	1.17	585	0	.46
NORTH REACH (B)	1.14	2,068	.518	4.42
MIDDLE REACH	1.16	1,210	.97	.08
SOUTH REACH	1.07	915	0	.50
TOTAL		4,778	1.48	5.47

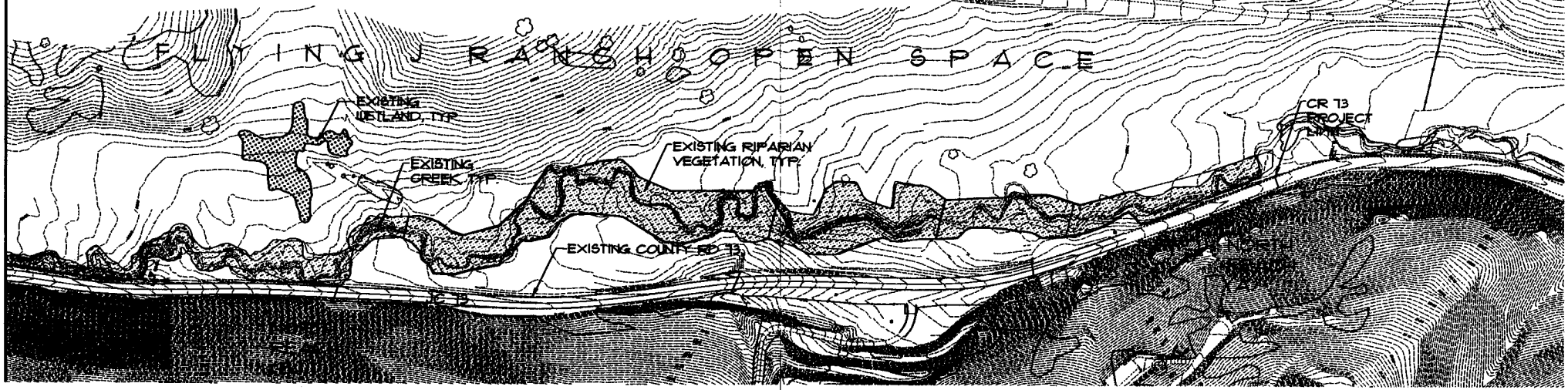
SHEET 2 OF 2

Jefferson County Road 73
Improvements
Jefferson County Department of
Highways and Transportation, Corps File 200380552

Fig. 2

Jefferson County Road 73
North Turkey Creek Realignment
Existing Conditions

Mundus Bishop Design, Inc. Muller Engineering Company, Inc. ERO Resources Corporation



MATCHLINE - SEE SHEET 2

EXISITNG ALIGNMENT FIGURES

AREA	EXISTING SINUOSITY INDEX	DISTANCE (FT)	WETLAND (ACRES)	RIPARIAN VEGETATION (ACRES)
NORTH REACH (A)	1.17	585	0	.46
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TOTAL		4,778	1.48	5.47

0' 100' 200' 400'

LEGEND

EXISTING CREEK

EXISTING RIPARIAN VEGETATION

EXISTING WETLANDS

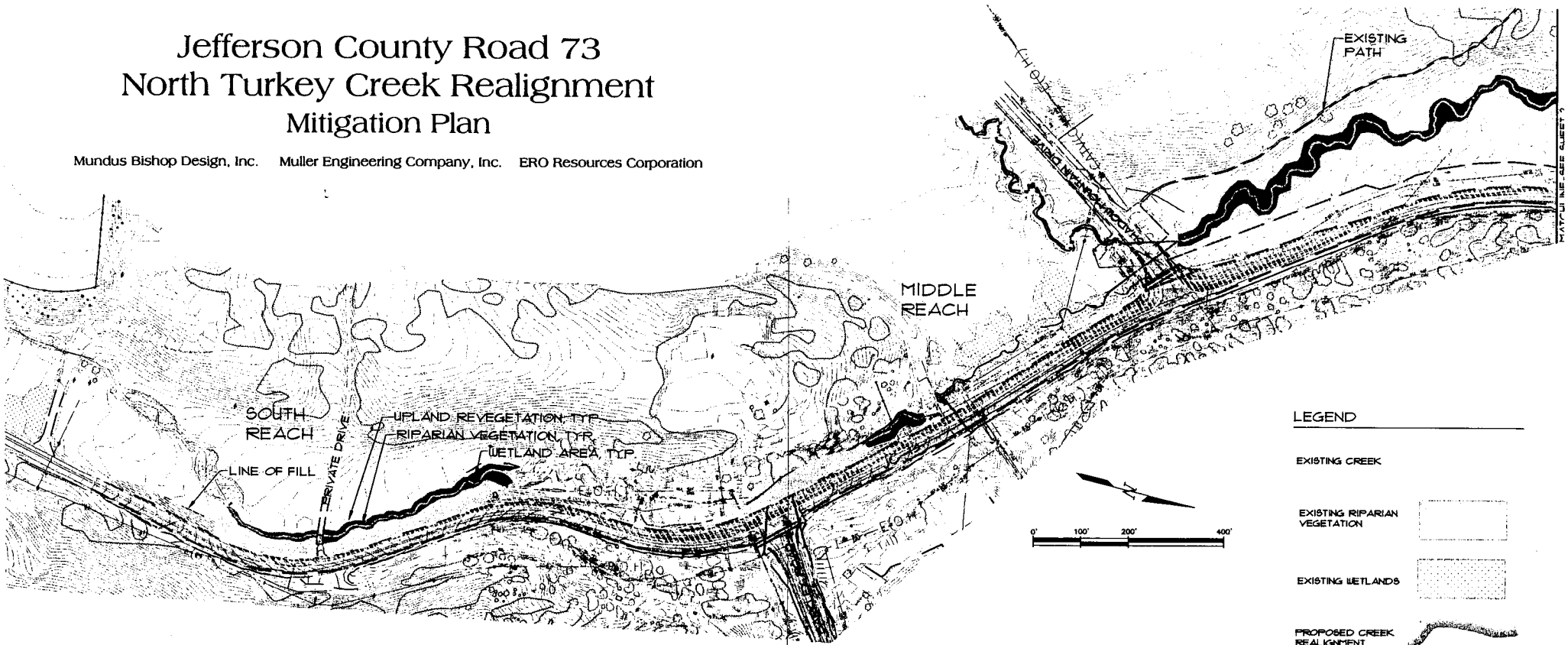
SHEET 1 OF 2

Jefferson County Road 73
Improvements
Jefferson County Department of
Highways and Transportation, Corps File 200380552

Fig. 3

Jefferson County Road 73
North Turkey Creek Realignment
Mitigation Plan

Mundus Bishop Design, Inc. Muller Engineering Company, Inc. ERO Resources Corporation



IMPACTED ALIGNMENT FIGURES

AREA	IMPACTED WETLANDS (ACRES)	IMPACTED RIPARIAN VEGETATION (ACRES)	IMPACTED CREEK SURFACE AREA (ACRES)
NORTH REACH (A)	0	.63	.05
NORTH REACH (B)	.09	1.92	.20
MIDDLE REACH	.16	.05	.04
SOUTH REACH	0	.47	.06
TOTAL	.25	3.07	.35

PROPOSED CONDITIONS

AREA	PROPOSED SINUOSITY INDEX	PROPOSED CREEK (LF)	SURFACE AREA (ACRES)	EXIST. CREEK TO REMAIN (LF)	SURFACE AREA (ACRES)	PROPOSED WETLANDS (ACRES)	PROPOSED VEGETATION (ACRES)
NORTH REACH (A)	1.19	653	.05	0	0	.01	.46
NORTH REACH (B)	1.35	2,716	.23	1,496	.14	.26	2.14
MIDDLE REACH	1.18	157	.01	462	.04	0	.19
SOUTH REACH	1.09	658	.06	873	.08	.01	.43
TOTAL		4,184	.38	2,864	.26	.28	3.22

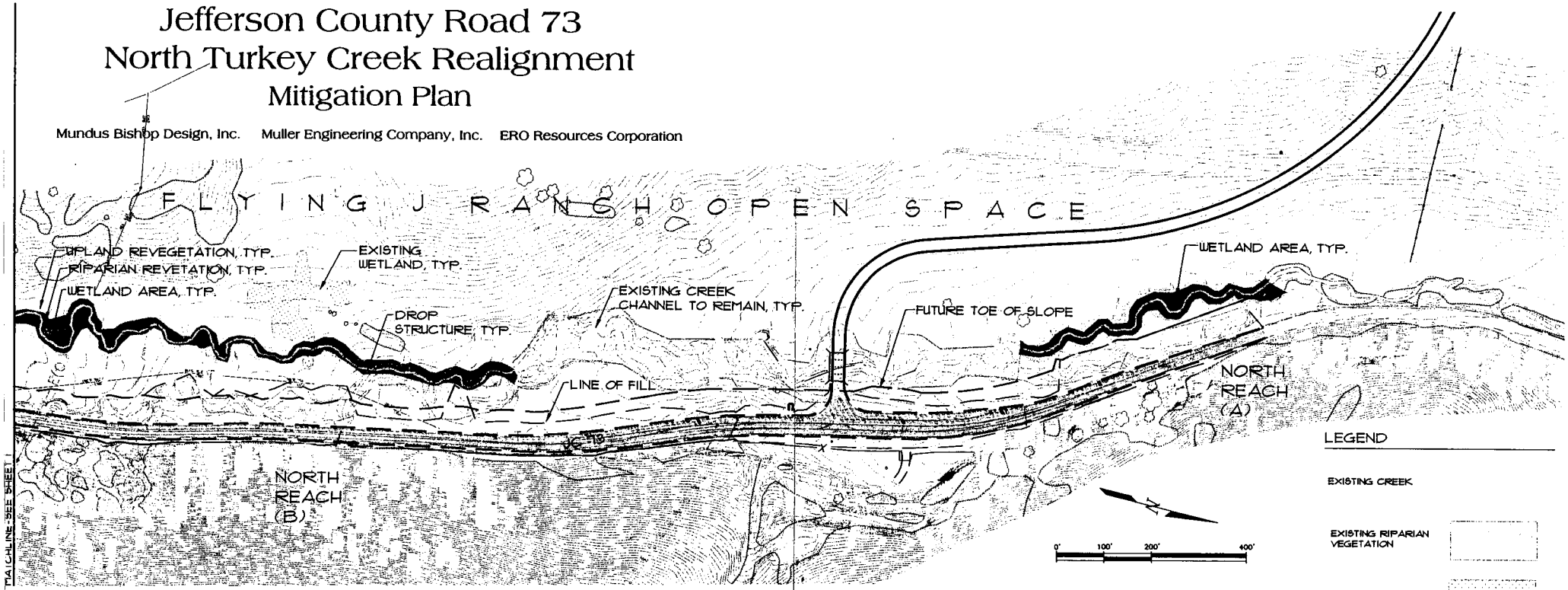
SHEET 1 OF 2

Jefferson County Road 73
Improvements
Jefferson County Department of
Highways and Transportation, Corps File 200380552

Fig. 4

Jefferson County Road 73
North Turkey Creek Realignment
Mitigation Plan

Mundus Bishop Design, Inc. Muller Engineering Company, Inc. ERO Resources Corporation



LEGEND

- EXISTING CREEK
- EXISTING RIPARIAN VEGETATION
- EXISTING WETLANDS
- PROPOSED CREEK REALIGNMENT
- PROPOSED WETLAND
- RIPARIAN REVEGETATION
- UPLAND REVEGETATION
- IMPACTED AREA

IMPACTED ALIGNMENT FIGURES

AREA	IMPACTED WETLANDS (SF)	IMPACTED RIPARIAN VEGETATION (SF)	IMPACTED CREEK SURFACE AREA (SF)
NORTH REACH (A)	0	27,829	2,400
NORTH REACH (B)	3,981	83,668	8,180
MIDDLE REACH	7,194	2,292	1,740
SOUTH REACH	0	20,779	2,636
TOTAL	11,175	134,568	15,556

PROPOSED CONDITIONS

AREA	PROPOSED SINUOSITY INDEX	PROPOSED CREEK (LF)	SURFACE AREA (ACRES)	EXIST. CREEK TO REMAIN (LF)	SURFACE AREA (ACRES)	PROPOSED WETLANDS (ACRES)	PROPOSED VEGETATION (ACRES)
NORTH REACH (A)	1.19	653	.05	0	0	.01	.46
NORTH REACH (B)	1.35	2,716	.23	1,496	.14	.26	2.14
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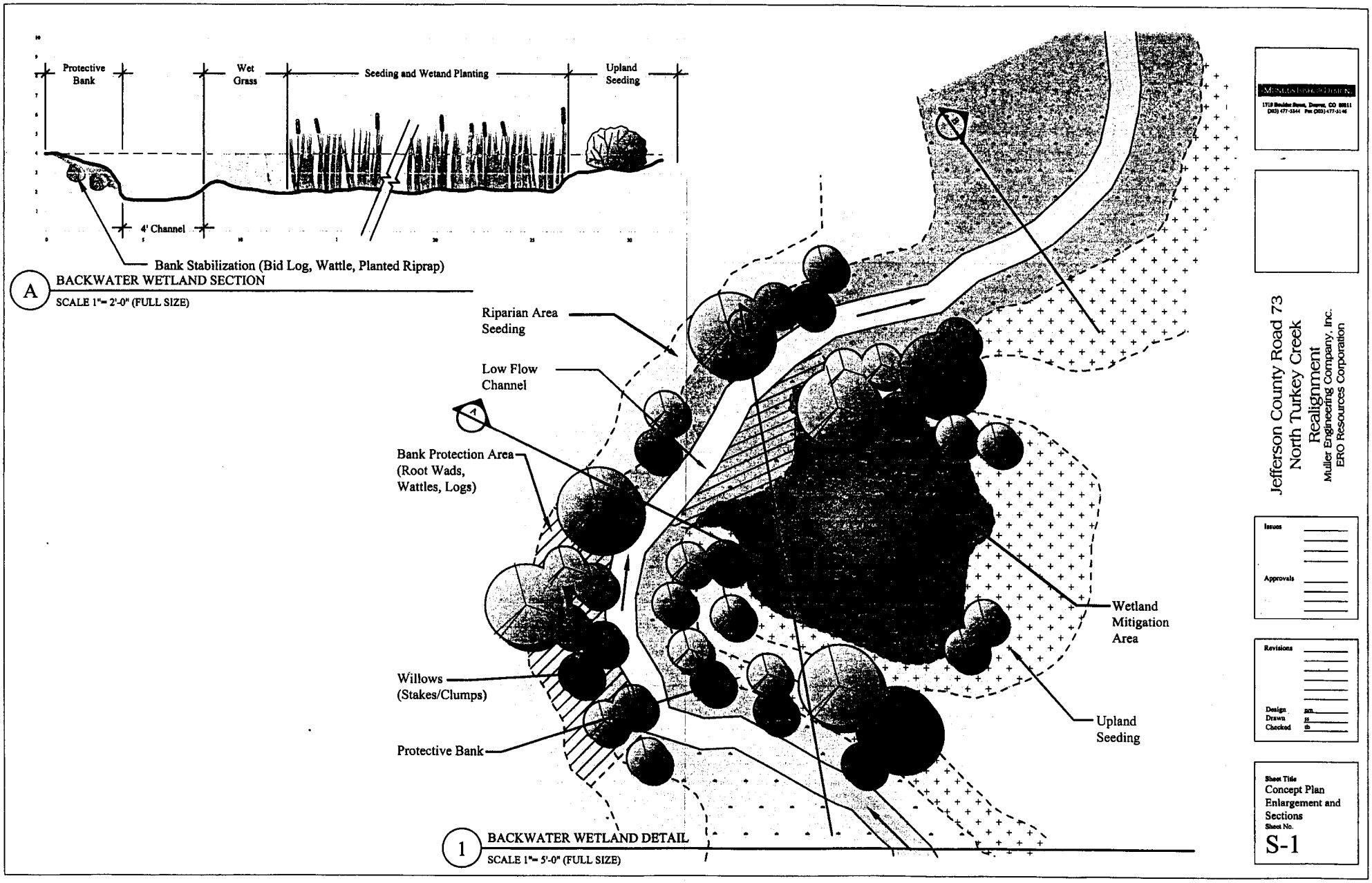
TOTAL		4,184	.38	2,864	.26	.28	3.22

SHEET 2 OF 2

Jefferson County Road 73
Improvements
Jefferson County Department of
Highways and Transportation, Corps File 200380552

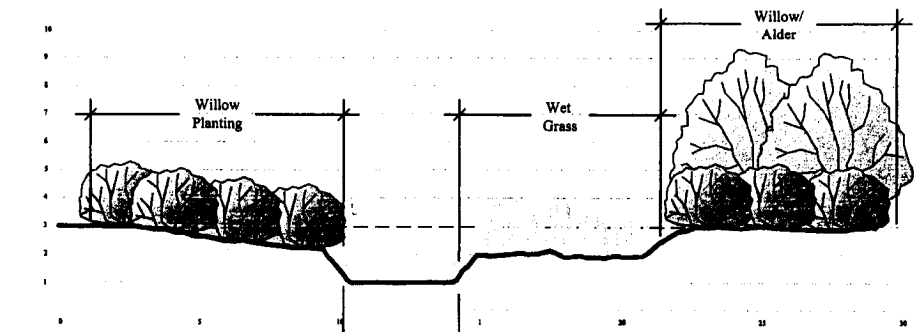
Fig. 5



Jefferson County Road 73
Improvements

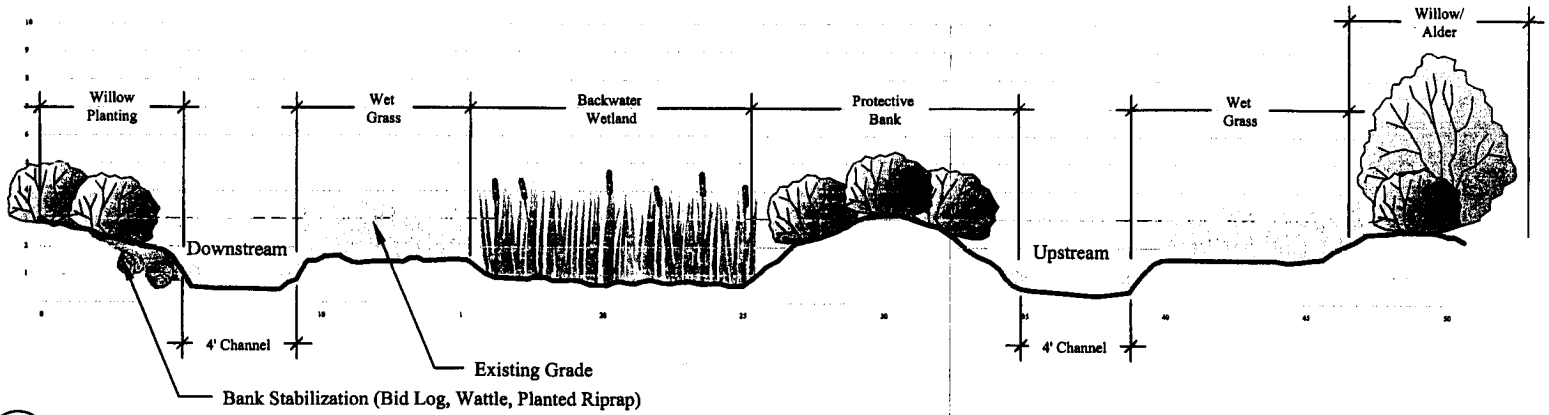
Jefferson County Department of
Highways and Transportation, Corps File 200380552

Fig. 6



B TYPICAL CHANNEL

SCALE 1"= 2'-0" (FULL SIZE)



C BACKWATER WETLAND - 2

SCALE 1"= 2'-0" (FULL SIZE)

Jefferson County Road 73
North Turkey Creek
Realignment
Muller Engineering Company, Inc.
ERO Resources Corporation

Issues

Approvals

Revisions

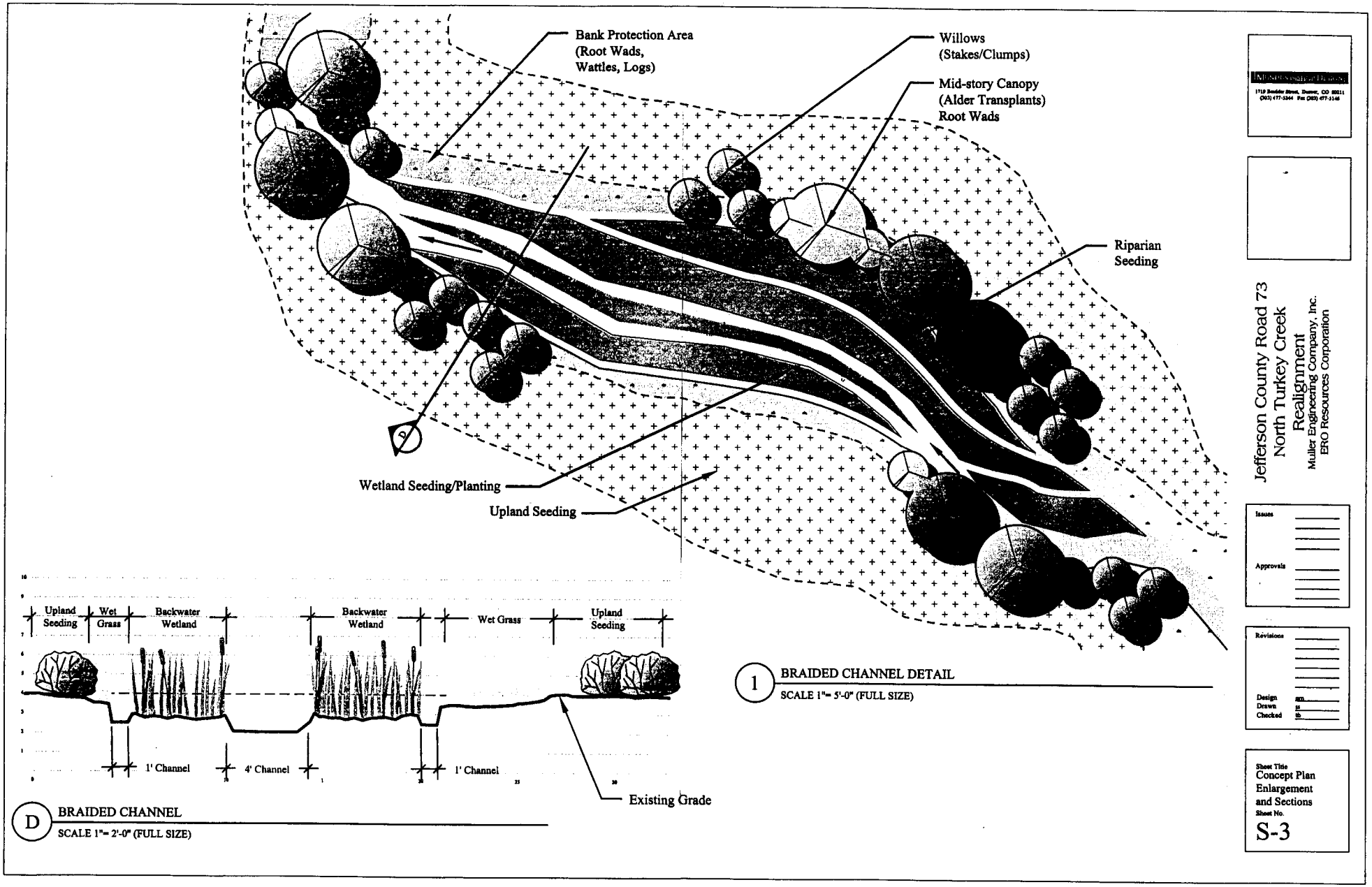
Design
Drawn
Checked

Sheet Title
Concept
Plan-Sections
Sheet No.
S-2

Jefferson County Road 73 Improvements

Jefferson County Department of
Highways and Transportation, Corps File 200380552

Fig. 7



Jefferson County Road 73 Improvements

Jefferson County Department of
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Fig. 8