US Army Corps
of Engineers
Seattle District

Public Notice of Application for Permit

Regulatory Branch
Post Office Box 3755
Seattle, Washington 98124-3755
Telephone (206) 764-3495
ATTN: Anne Robinson, Project Manager

Public Notice Date: June 14, 2005
Expiration Date: July 14, 2005
Reference: 200500225
Name: WA State Dept. of Transportation

Interested parties are hereby notified that an application has been received for a Department of the Army permit in accordance with Section 404 of the Clean Water Act for certain work described below and shown on the enclosed drawings.

APPLICANT: Washington State Department of Transportation
2714 North Mayfair Street
Spokane, Washington 99207-2090
ATTN: Michelle Anderson
Telephone: (509)324-6134

LOCATION: In wetlands, and in ditches along State Route (SR) 270, within the Pullman (Washington) to Moscow (Idaho) corridor, in Whitman County, Washington. This project is located in Sections 1,2,3,4 of Township 14N, Range 45E; in Sections 31 and 32 of Township 15N Range 46E; and in Section 5 of Township 46E

WORK: The applicant proposes to widen SR 270 from Mile Post (MP) 3.88 to MP 9.92, adding one lane in each direction, and adding a center two-way left turn lane. The applicant proposes to fill a total of 5.91 acres of jurisdictional waters of the United States within 20 separate jurisdictional ditches, riparian wetlands and 'toe of slope' wetlands during road construction. Riparian wetlands will be impacted on the south side of the highway adjacent to Paradise Creek and 'ditch' wetlands on the north side of the existing highway will be impacted. Impacted wetlands are described by Cowardin classification in Table 1. Wetland 1, a riparian wetland that extends the length of the project, south of the alignment and adjacent to Paradise Creek, will not be impacted.

Table 1: Wetland impacts by vegetation classification

Wetland Type	Wetland Impact (acres)
PEM	4.76
PSS/PEM	0.10
PFO/PSS/PEM	1.05
Total	5.91 acres

P-palustrine; EM-emergent; SS-scrub/shrub; FO-forested

Table 2: Impacts per individual wetland (See Figures 2a and 2b for wetland locations)

Wetland #	1	2rt	3lf	4rt	5lf	6lf	7lf	8rt	9rt	9lf	10rt	10a-lf	10b-lf	11rt	12 lf	13rt
Total Ac.	Undet.	1	1	.40	1.05	.69	.10	1.83	.87	.19	2.3	.23	.26	.50	.62	.02
Impact	0	0	.73	0	1.05	.69	.10	0.03	.2 7	0	.34	.23	.26	.16	.35	.0

rt-south side of highway lf-north side of highway (total acreages: estimated) Undet.=undetermined

Wetland #	14lf	14rt	15lf	15rt	16rt	17lf	18rt	19rt	20rt
Total Ac.	.40	.10	1.0	1.25	1.0	1.65	.01	1.20	1.40
Impact	.09	.049	.49	.04	.06	.58	.01	.14	.24

(wetland areas to remain are adjacent to Paradise Creek) (See Figures 2a and 2b for Index map, Figures 29-42 for details of impacts)

All wetlands to the right (south) are adjacent to Paradise Creek and remaining wetland acreages will maintain hydrology, as well as the majority of their functions and values because they are part of the riparian system of wetlands. Wetlands to the left (north) are generally part of the ditch system at the toe of slope. Upon completion of the project, the hydrology will remain the same and functions and values will be re-established in the new ditch. This information was factored into the determination of total wetland impact acreage per wetland.

Impacts to Paradise Creek include both temporary and permanent fills as follows. The applicant proposes to place 19 cubic yards (cy) of fill below ordinary high water (OHW) during the replacement of two fish passage culverts. An additional temporary fill of 54 cy will be required for the construction of two temporary by-passes consisting of plastic sheeting and quarry spalls, during completion of the two fish passage culverts. (See Figures 10-11)

The applicant will fill an additional 26.35 cy during replacement and/or extension of typical and non-typical culverts. Drawings are provided showing proposed locations for new culverts, and where extensions of existing culverts are proposed. (See Figures 4-13)

During construction of the inlet and outlet weirs on the Sunshine Road Site, the applicant proposes to temporarily fill 56 cy. The permanent construction of the runoff/storm event weirs at this site will require fill of 60 cy below OHW. The construction of check dams will require 12 cy of fill. (See Figures 26-28)

At the Patterson Site, a crossing will temporarily place 50 cy of fill within Paradise Creek, in addition to a 24" flexible bypass pipe used during construction. (See Figures 10-11)

PURPOSE: The purpose of this project is to increase vehicle capacity, and improve traveling safety, while reducing travel times between Pullman, Washington and Moscow, Idaho.

ADDITIONAL INFORMATION: The project will also impact the Bill Chipman Trail, however it will not impair the use of the remaining recreation land.

MITIGATION: The applicant has submitted a conceptual mitigation plan that is intended to compensate for impacts to a total of 5.91 acres of low to moderate quality wetlands within the Paradise Creek watershed. The objective of the mitigation plan is to create wetlands in two sites: an old stockpile site area (Sunshine Road Site) and in the vicinity of milepost (MP) 8.00 (Patterson site) both on the south side of the highway. The applicant has submitted a draft mitigation plan. A general overview of the proposed mitigation follows.

1)The Sunshine Road site, a prior stockpile site, is situated in a low area between the Bill Chipman Trail (Trail) and Paradise Creek, west of Sunshine Road (See Figures 24-25), where a mosaic of low-quality disturbed wetlands and uplands exist at present. A portion of the floodplain (6.45 ac) will be graded to allow creation of riparian wetlands. Weirs and rock check dams will be constructed in Paradise Creek to increase overland flow, thereby increasing the size of the floodplain and creating wetlands. The applicant will further enhance the site by planting native wetland species: trees and shrubs, and suppressing noxious weeds. (See Figures 24-25)

2)The Patterson Site is located between the toe of fill for the existing highway and the toe of the fill for the Trail, a historic railroad grade. This area has been used for cattle grazing for many years. The applicant proposes to purchase and protect pasture land along Paradise Creek and permanently exclude cattle. Where the creek has deeply incised the floodplain, the applicant will regrade to create 2.45 acres of wetland and enhance the remaining bank areas within this site with native trees and woody shrubs to improve habitat by shading Paradise Creek. (See Figures 16-19)

3)Paradise Creek Riparian Area is located near the western project terminus, between the highway and the Bill Chipman Trail. The area is currently being grazed. All existing fencing will be removed and grazing eliminated. Checkdams will be installed in Paradise Creek to improve aeration, and two fish passable culverts will be installed. (See Figures 20-23)

Table 3: Proposed Mitigation

Location	Sunshine Road Site	Patterson Site	Paradise Creek Riparian
Type	**Creation:** 6.45 ac PEM, PSS, PFO with additional grading to form POW	**Restoration:** 2.75 ac PSS/PFO along riparian border	**Enhancement:** -Construct porous rock weirs to enhance aeration -Correct two fish passage barriers -Establish educational areas along creek -Exclude cattle and remove fencing

The proposed creation, restoration, enhancement, and preservation of on-site wetlands is intended to compensate for the wetland impacts associated with this project. No net loss of wetland functions and values, or of wetland acreage will result from this project.

ENDANGERED SPECIES: The Endangered Species Act (ESA) requires Federal agencies to consult with the National Marine Fisheries Service (NMFS) and/or U.S. Fish and Wildlife Service (USFWS) pursuant to Section 7 of ESA on all actions that may affect a species listed (or proposed for listing) under the ESA as threatened or endangered or any designated critical habitat. The Federal Highway Administration (FHWA) is the lead agency for determining compliance with ESA for this project. FHWA has determined that there are no federally listed species within the project area and that the activity will therefore not affect any endangered or threatened species, or their critical habitat, designated under the Endangered Species Act of 1973, and that consultation under Section 7 of the ESA is not required.

ESSENTIAL FISH HABITAT: The Magnuson-Stevens Fishery Conservation and Management Act, as amended by the Sustainable Fisheries Act of 1996, requires all Federal agencies to consult with the NMFS on all actions, or proposed actions, permitted, funded, or undertaken by the agency, that may adversely affect Essential Fish Habitat (EFH). The Federal Highway Administration, as Federal lead agency for a determination regarding EFH, has determined that the proposed action would not adversely affect designated EFH for any federally managed fisheries in Washington waters. No further EFH consultation is necessary.

CULTURAL RESOURCES: The District Engineer has reviewed the latest published version of the National Register of Historic Places, lists of properties determined eligible and other sources of information. The Federal Highway Administration, as the lead agency for determining compliance with Section 106 of the National Historic Preservation Act, has consulted with the State Historic Preservation Office (SHPO) as appropriate in both 2002 and 2004. Documentation from Eastern Washington University Archaeological and Historical Services was provided to SHPO. This public notice initiates consultation under Section 106 of the National Historic Preservation Act (36 CFR 800.4[a][3]) with any Tribe that has information or concerns with historic properties in the proposed permit area.

PUBLIC HEARING: Any person may request, in writing, within the comment period specified in this notice, that a public hearing be held to consider this application. Requests for public hearings shall state, with particularity, the reasons for holding a public hearing.

EVALUATION: The decision whether to issue a permit will be based on an evaluation of the probable impacts, including cumulative impacts, of the proposed activity on the public interest. That decision will reflect the national concern for both protection and utilization of important resources. The benefits, which reasonably may be expected to accrue from the proposal, must be balanced against its reasonably foreseeable detriments. All factors which may be relevant to the proposal will be considered, including the cumulative effects thereof; among those are conservation, economics, aesthetics, general environmental concerns, wetlands, historic properties, fish and wildlife values, flood hazards, floodplain values, land use, navigation, shoreline erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food and fiber production, mineral needs, considerations of property ownership, and, in general, the needs and welfare of the people.

The U.S. Army Corps of Engineers is soliciting comments from the public; Native American Nations or tribal governments; Federal, State, and local agencies and officials; and other interested parties in order to consider and evaluate the impacts of this activity. Any comments received will be considered by the Corps to determine whether to issue, modify, condition or deny a permit for the work. To make this decision, comments are used to assess impacts on endangered species, historic properties, water quality, general environmental effects, and the other public interest factors listed above. Comments are used in the preparation of an Environmental Assessment and/or an Environmental Impact Statement pursuant to the National Environmental Policy Act. Comments are also used to determine the need for a public hearing and to determine the overall public interest of the activity.

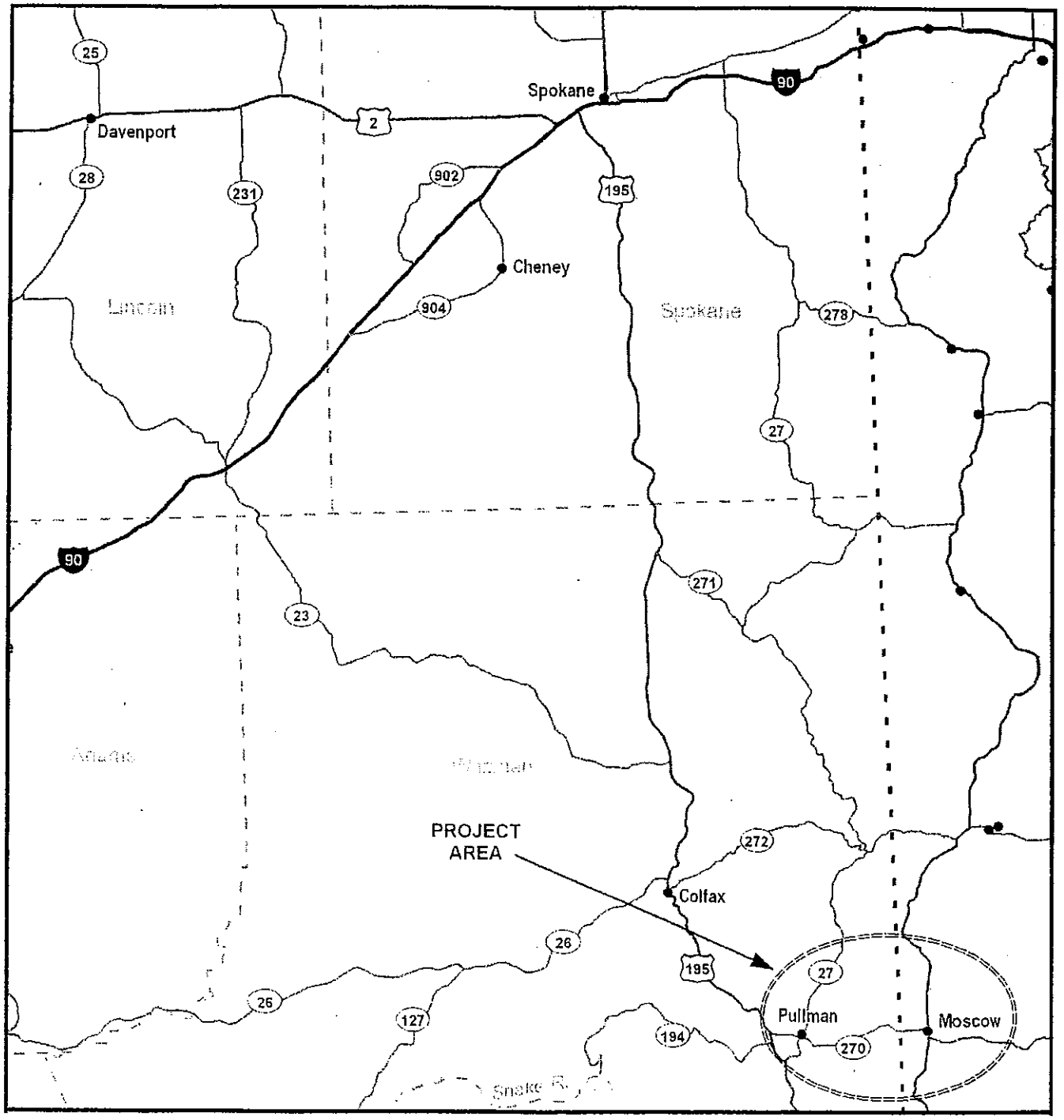
ADDITIONAL EVALUATION: The State of Washington is reviewing this work for compliance with the applicable State and Federal water quality standards pursuant to Section 401 of the Clean Water Act.

COMMENT AND REVIEW PERIOD: Conventional mail or e-mail comments on this public notice will be accepted and made part of the record and will be considered in determining whether it would be in the public interest to authorize this proposal. In order to be accepted, e-mail comments must originate from the author's e-mail account and must include on the subject line of the e-mail message the permit applicant's name and reference number as shown below. All e-mail comments should be sent to Anne.M.Robinson@usace.army.mil. Conventional mail comments should be sent to U.S. Army Corps of Engineers, Regulatory Branch, Post Office Box 3755, Seattle, Washington, 98124-3755. Both conventional mail or e-mail comments must include the permit applicant's name and reference number, as shown below, and the commentor's name, address, and phone number. All comments whether conventional mail or e-mail must reach this office, no later than the expiration date of this public notice to ensure consideration. Please include the following name and reference number:

Washington State Department of Transportation
200500225

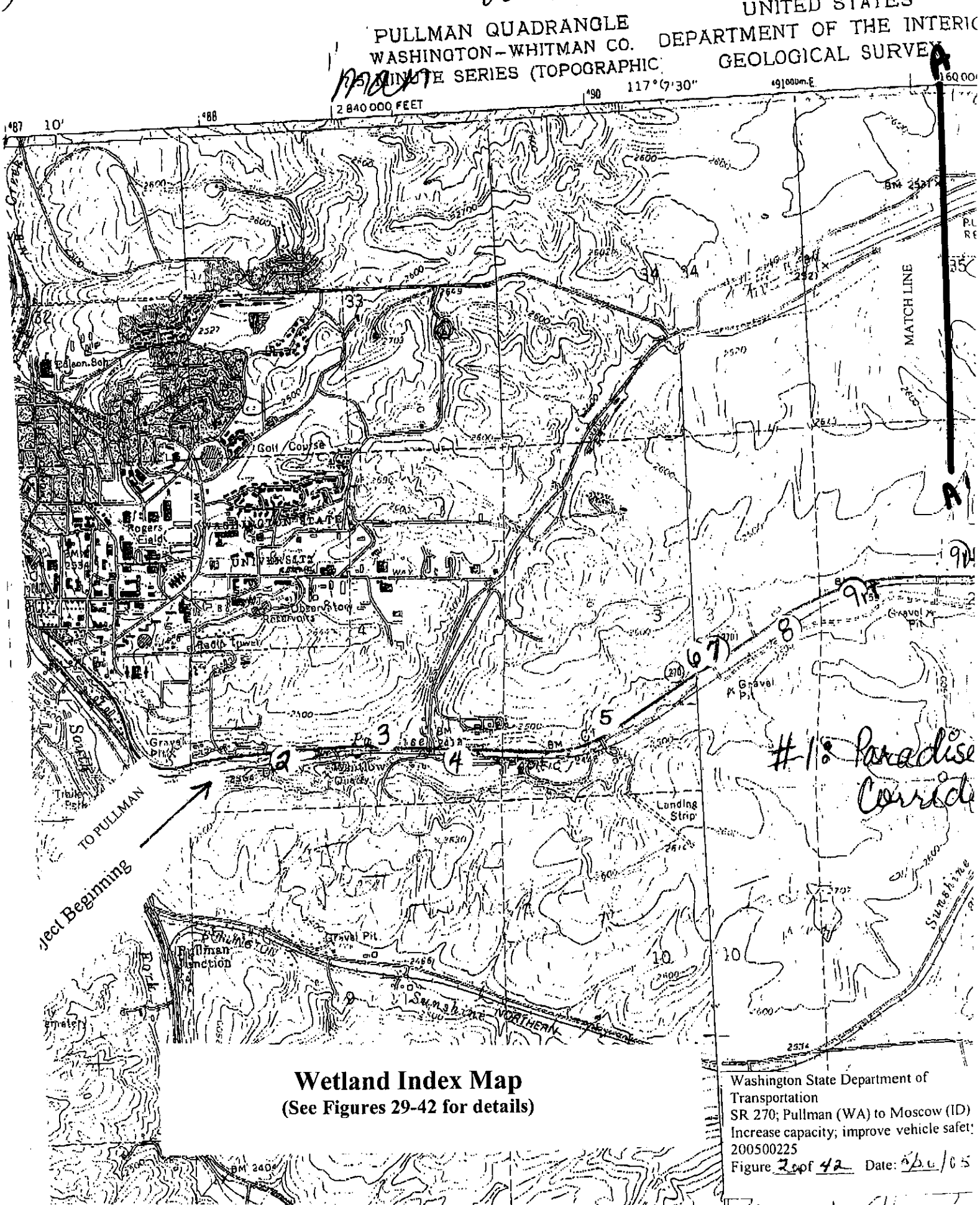
Encl
Drawings (43)

Figure 1. Project Vicinity Map



Washington State Department of Transportation
SR 270; Pullman (WA) to Moscow (ID)
Increase capacity; improve vehicle safety
200500225
Figure 1 of 42 Date: 5/26/05

Wetland Index Map



Wetland Index Map
(See Figures 29-42 for details)

Washington State Department of Transportation
SR 270; Pullman (WA) to Moscow (ID)
Increase capacity; improve vehicle safety
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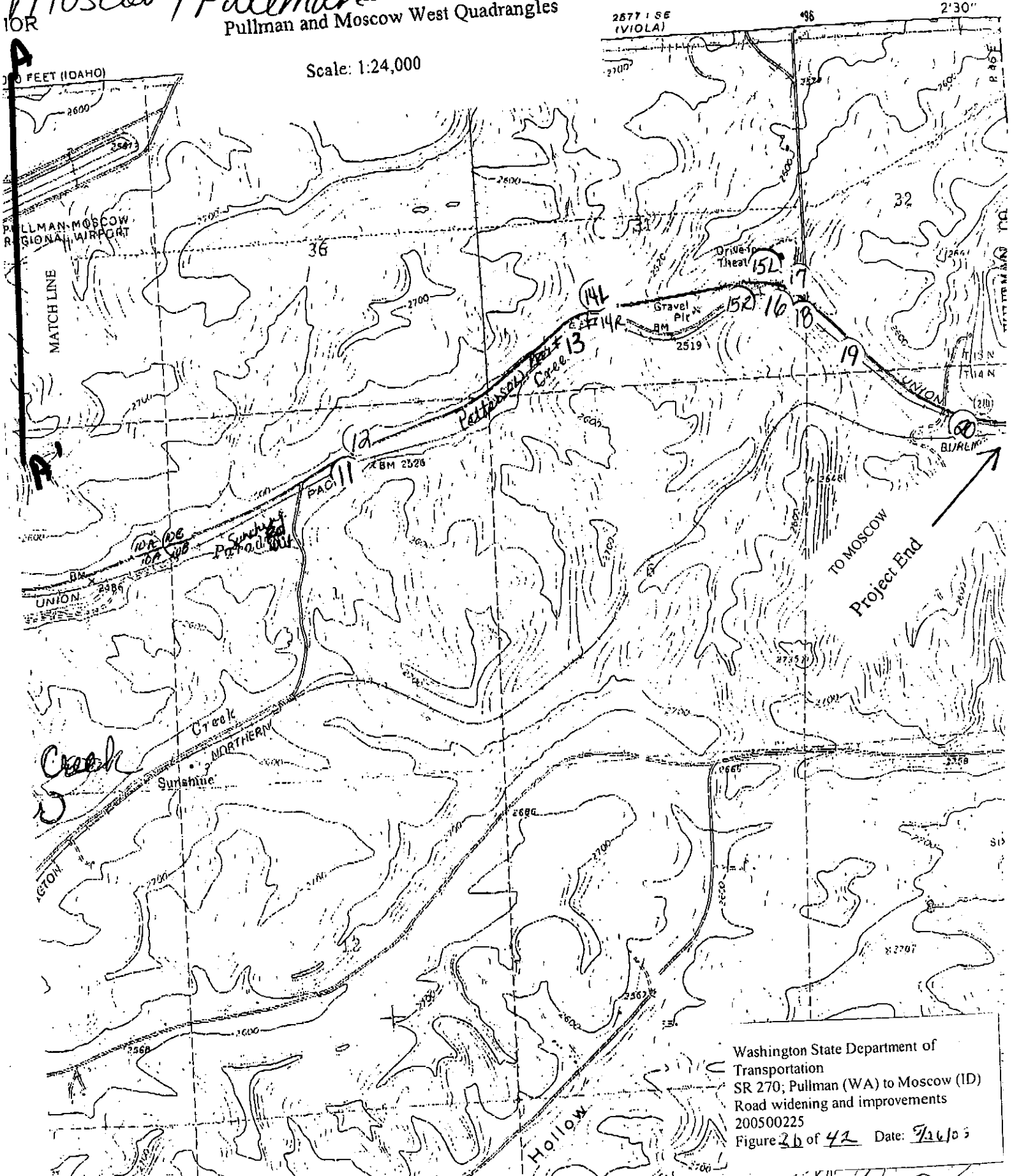
Figure 2 of 42 Date: 06/05

SR270 Wetland Index Map #4

Moscow/Pullman

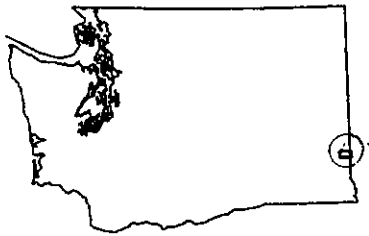
Portions of USGS Quadrangle Maps for Pullman and Moscow West Quadrangles

Scale: 1:24,000

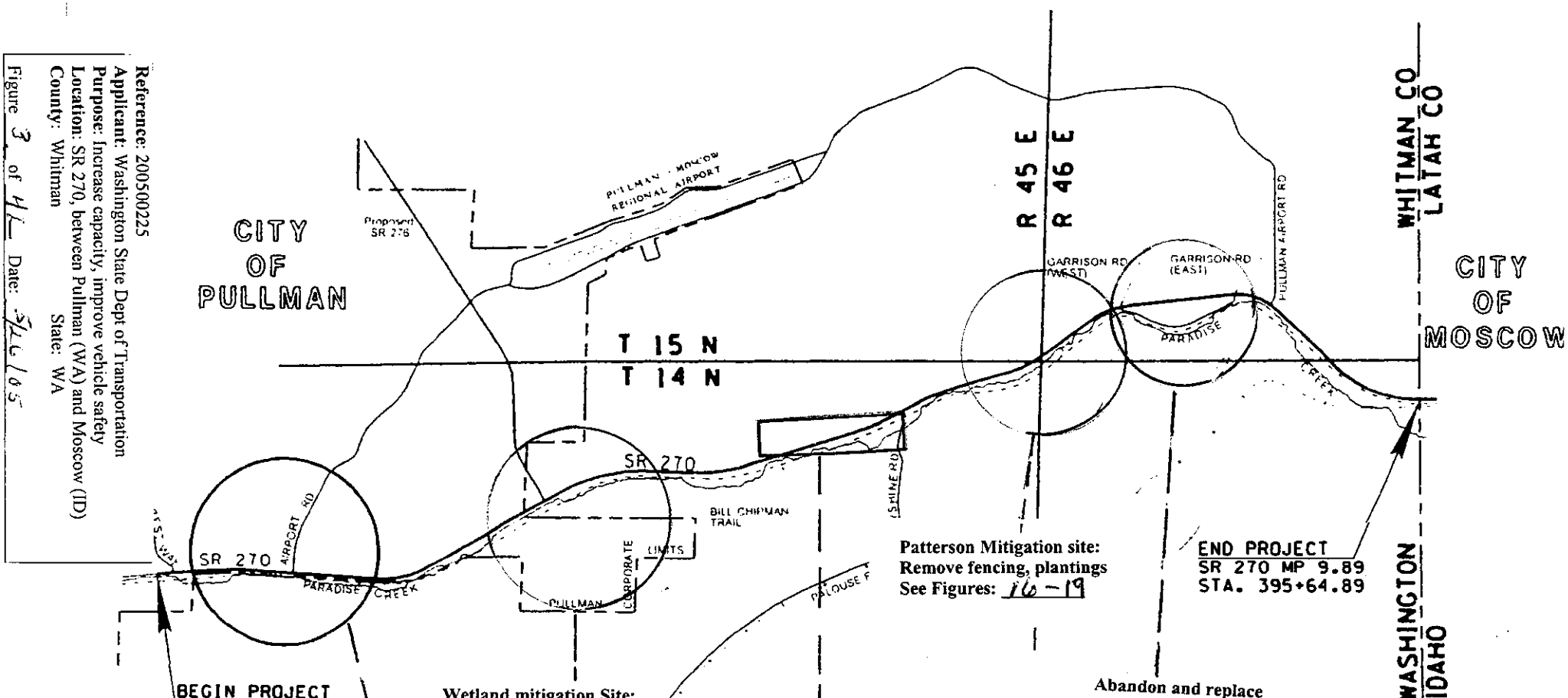


Washington State Department of Transportation
SR 270; Pullman (WA) to Moscow (ID)
Road widening and improvements
200500225
Figure 2b of 42 Date: 7/16/05

VICINITY MAP



PROJECT SITE



Reference: 200500225
Applicant: Washington State Dept of Transportation
Purpose: Increase capacity, improve vehicle safety
Location: SR 270, between Pullman (WA) and Moscow (ID)
County: Whitman State: WA

Figure 3 of 41 Date: 3/16/05

BEGIN PROJECT
SR 270 MP 3.88
STA. 76+43.45

END PROJECT
SR 270 MP 9.89
STA. 395+64.89

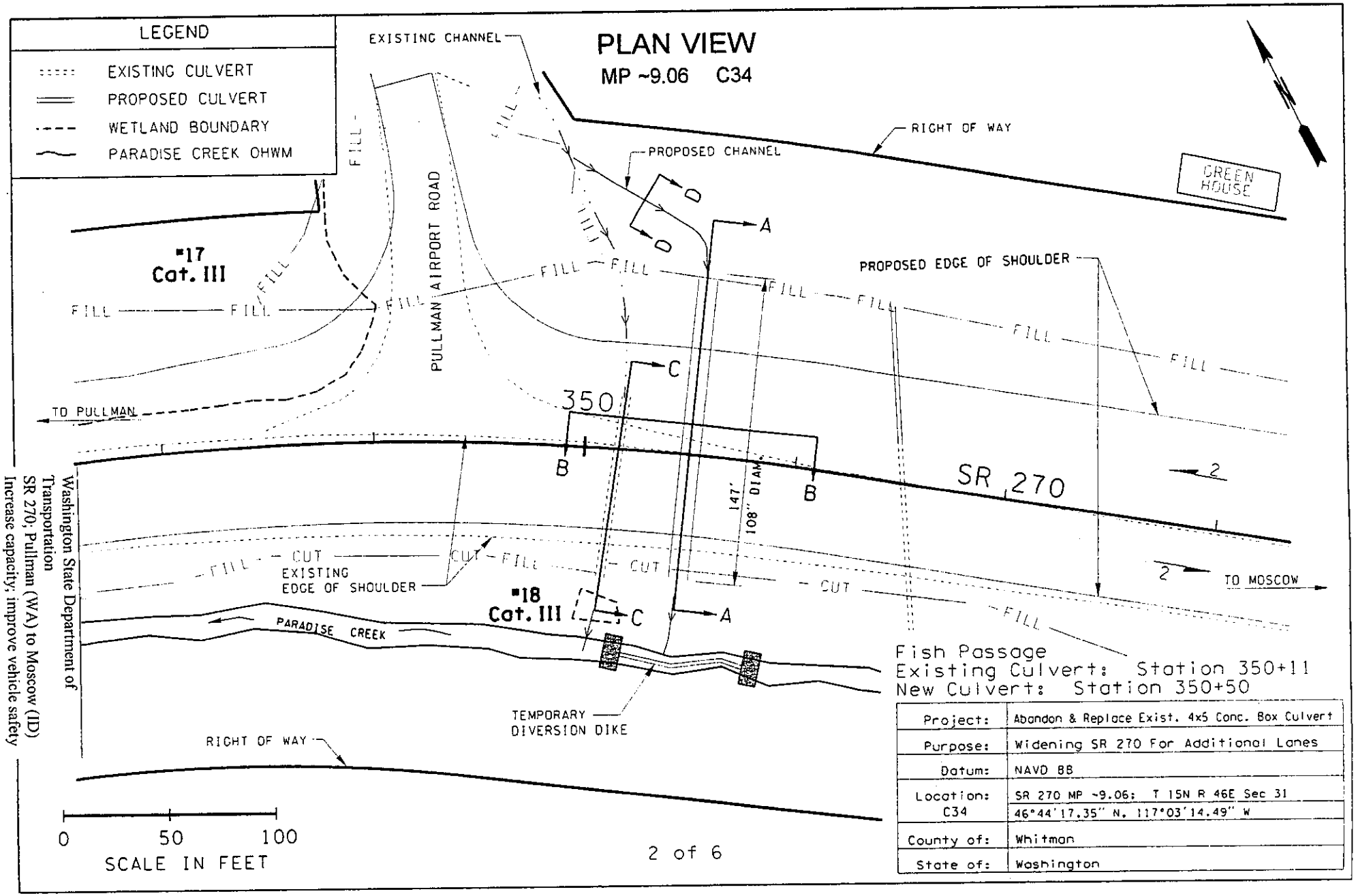
Abandon and replace Concrete Box Culvert For fish passage See Figures 7-11

Wetland mitigation Site: Remove fencing, plantings See Figures 20-23

Sunshine Mitigation site: Regrading, build weirs, rock check dams See Figures 24-28

Patterson Mitigation site: Remove fencing, plantings See Figures: 16-19

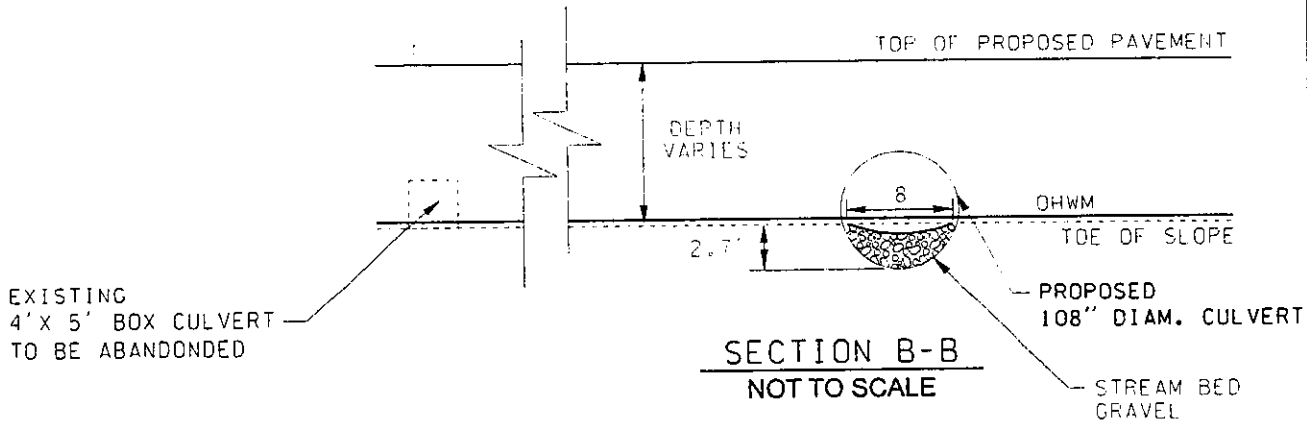
Abandon and replace Concrete Box Culvert For fish passage See Figures 4-6



Washington State Department of Transportation
SR 270; Pullman (WA) to Moscow (ID)
Increase capacity; improve vehicle safety
200500225
Figure 4 of 42 Date: 5/26/05

PROPOSED CROSS SECTIONS

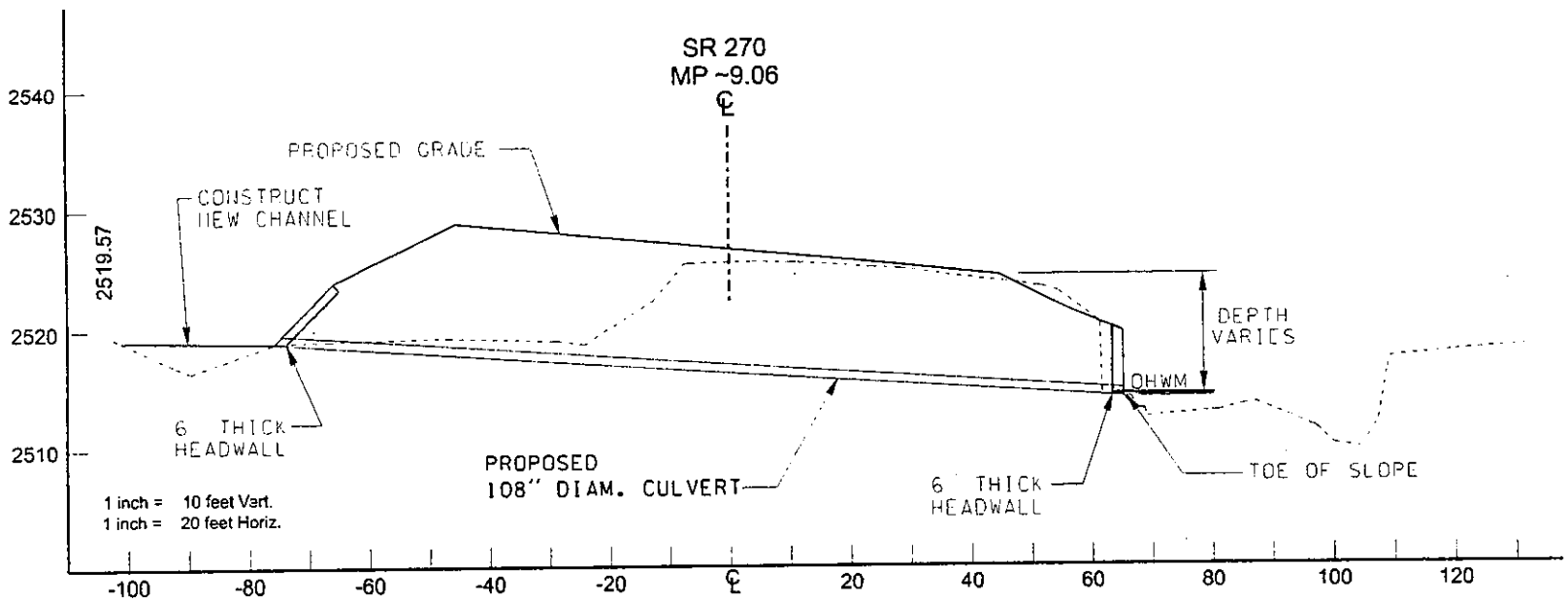
MP ~9.07 C34



SECTION B-B

NOT TO SCALE

TEMPORARY EXCAVATION	
BELOW OHWM	ABOVE OHWM
CUT = 11 CY FILL = 0 CY	CUT = 20 CY FILL = 0 CY
PERMANENT EXCAVATION	
BELOW OHWM	ABOVE OHWM
CUT = 12 CY FILL = 8 CY	CUT = 370 CY FILL = 285 CY
TOTAL EXCAVATION	
BELOW OHWM	ABOVE OHWM
CUT = 23 CY FILL = 8 CY AREA = 0.02 AC (871 SF)	CUT = 390 CY FILL = 285 CY AREA = 0.04 AC (1749 SF)



SECTION A-A

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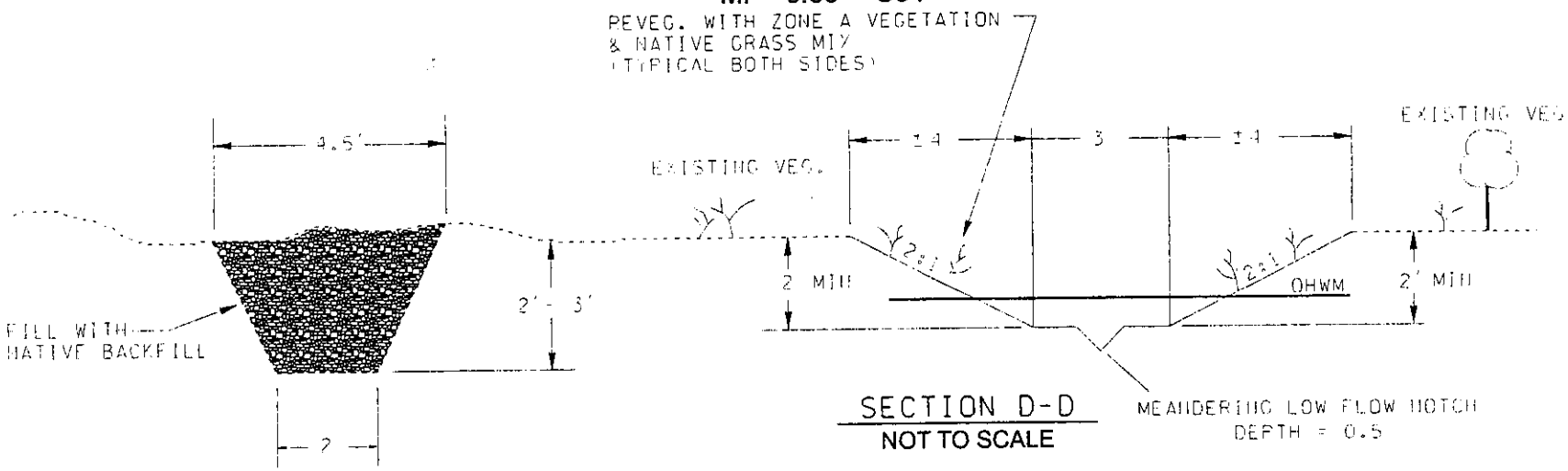
Washington State Department of Transportation
SR 270; Pullman (WA) to Moscow (ID)
Increase capacity; improve vehicle safety
200500225
Figure 5 of 22 Date: 5/24/05

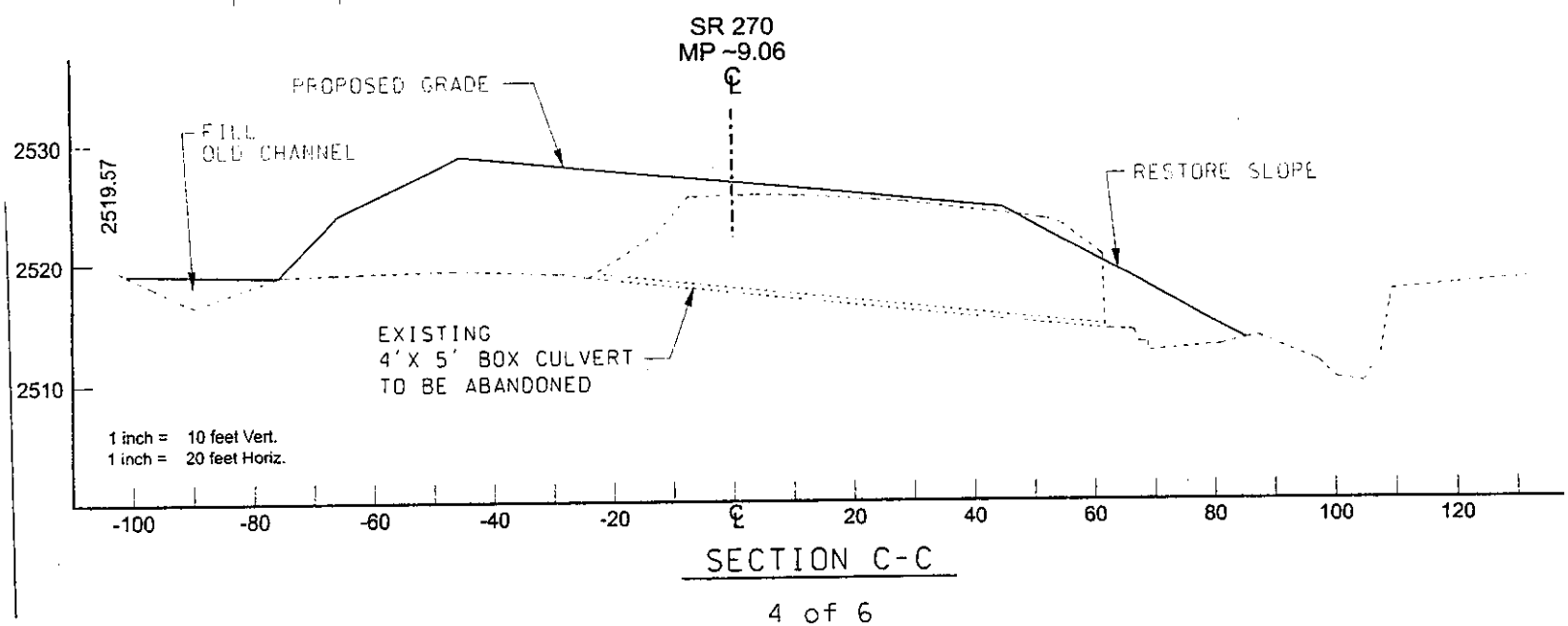
EXISTING & PROPOSED CROSS SECTIONS

MP ~9.06 C34



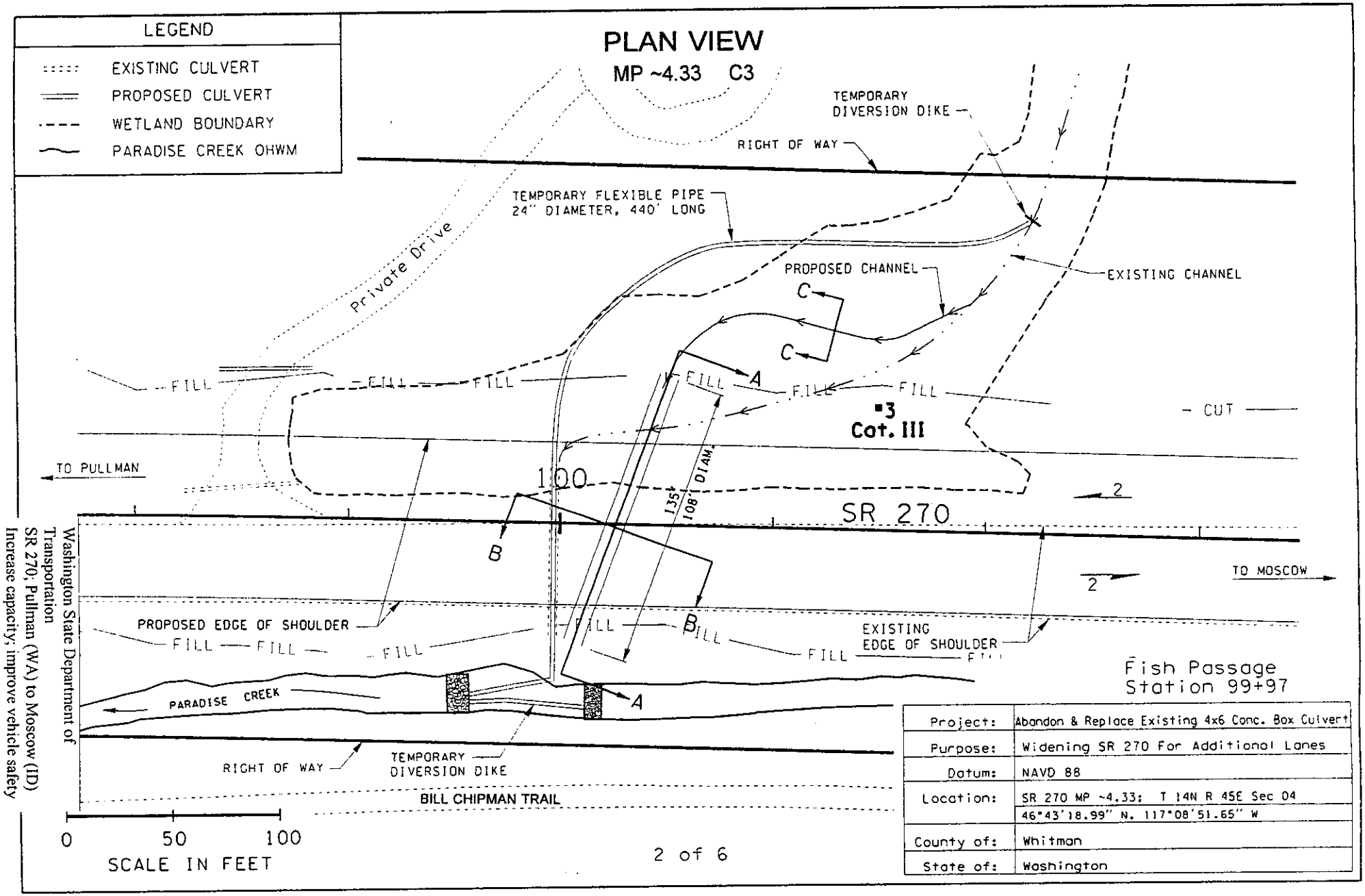
SECTION D-D

NOT TO SCALE



SECTION C-C

Washington State Department of Transportation
SR 270; Pullman (WA) to Moscow (ID)
Road widening and improvements
200500225
Figure 6 of 42 Date: 5/26/05

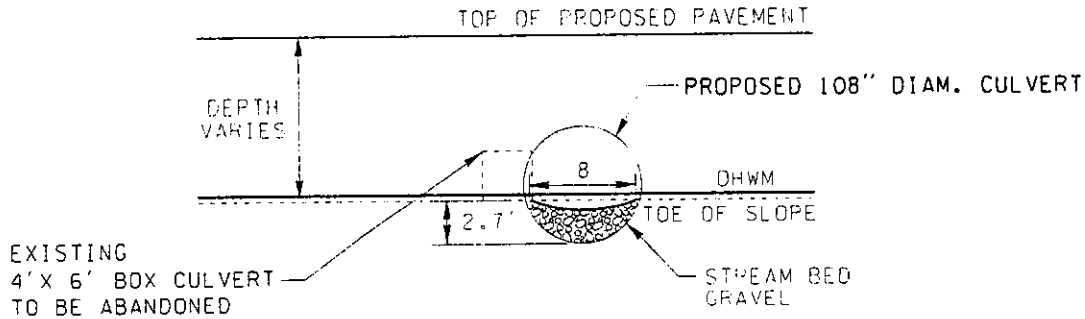


Project:	Abandon & Replace Existing 4x6 Conc. Box Culvert
Purpose:	Widening SR 270 For Additional Lanes
Datum:	NAVD 88
Location:	SR 270 MP ~4.33; T 14N R 45E Sec 04
	46°43'18.99" N. 117°08'51.65" W
County of:	Whitman
State of:	Washington

Washington State Department of Transportation
SR 270; Pullman (WA) to Moscow (ID)
Increase capacity; improve vehicle safety
200500225
Figure 7 of 4b Date: 5/26/05

CROSS SECTIONS

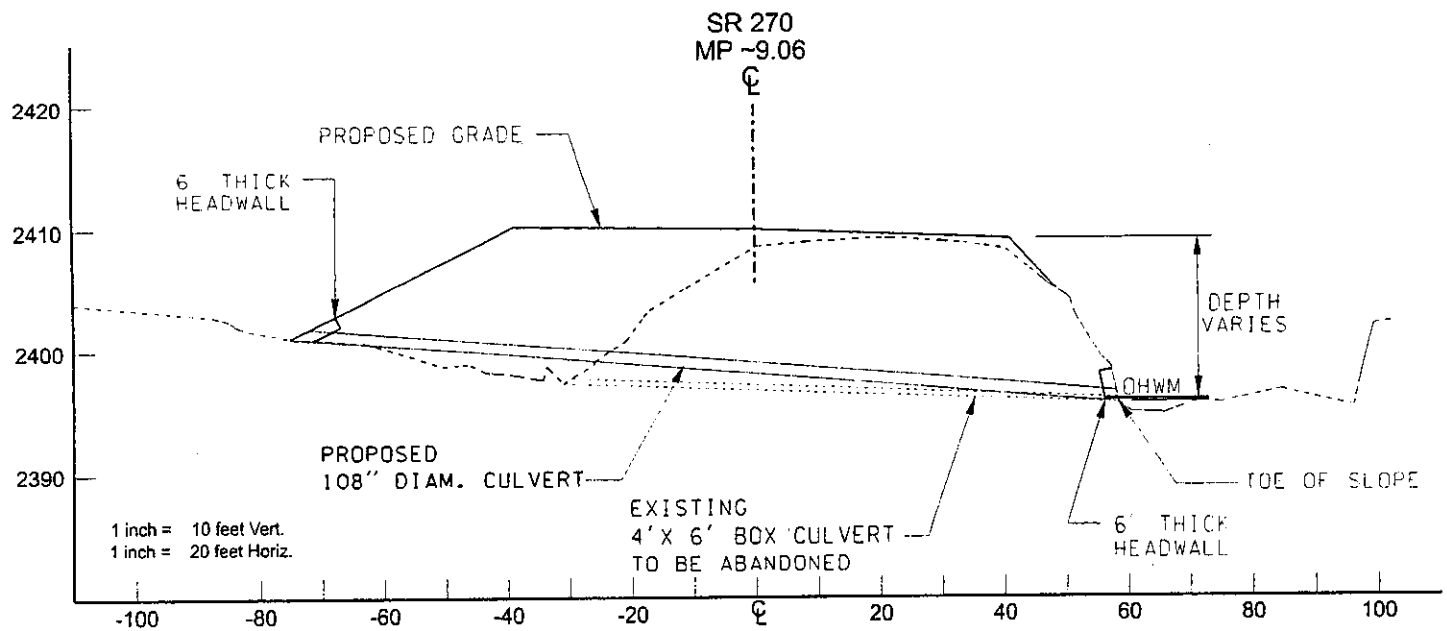
MP ~4.33 C3



SECTION B-B

NOT TO SCALE

TEMPORARY EXCAVATION	
BELOW OHWM	ABOVE OHWM
CUT = 16 cy FILL = 0 cy	CUT = 0 cy FILL = 0 cy
PERMANENT EXCAVATION	
BELOW OHWM	ABOVE OHWM
CUT = 15 cy FILL = 11 cy	CUT = 435 cy FILL = 305 cy
TOTAL EXCAVATION	
BELOW OHWM	ABOVE OHWM
CUT = 31 cy FILL = 11 cy AREA = 0.02 ac (871 sf)	CUT = 435 cy FILL = 305 cy AREA = 0.03 ac (1584 sf)



SECTION A-A

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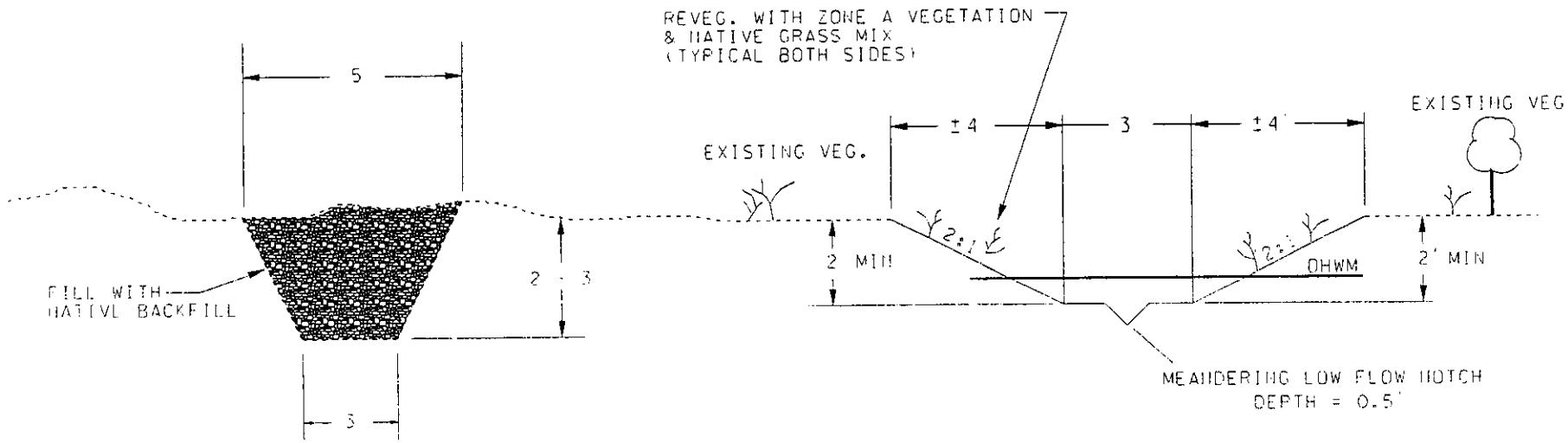
Washington State Department of Transportation
SR 270; Pullman (WA) to Moscow (ID)
Increase capacity; improve vehicle safety
200500225
Figure 3 of 42 Date: 5/24/05

EXISTING & PROPOSED CROSS SECTIONS

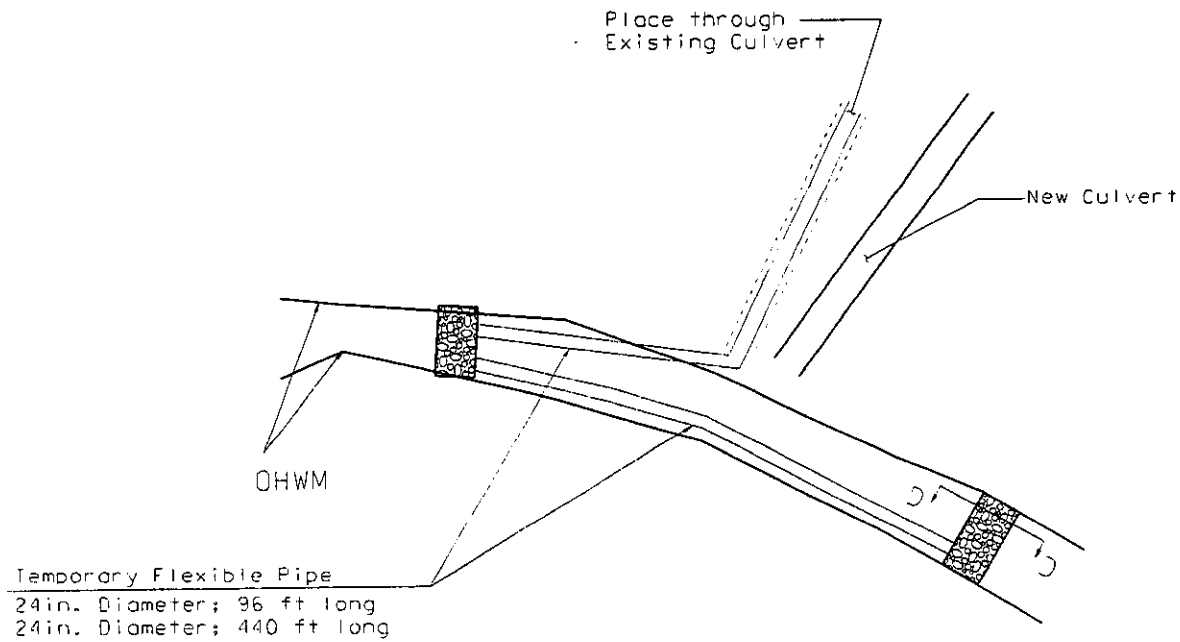
MP ~4.33 C3



SECTION C-C

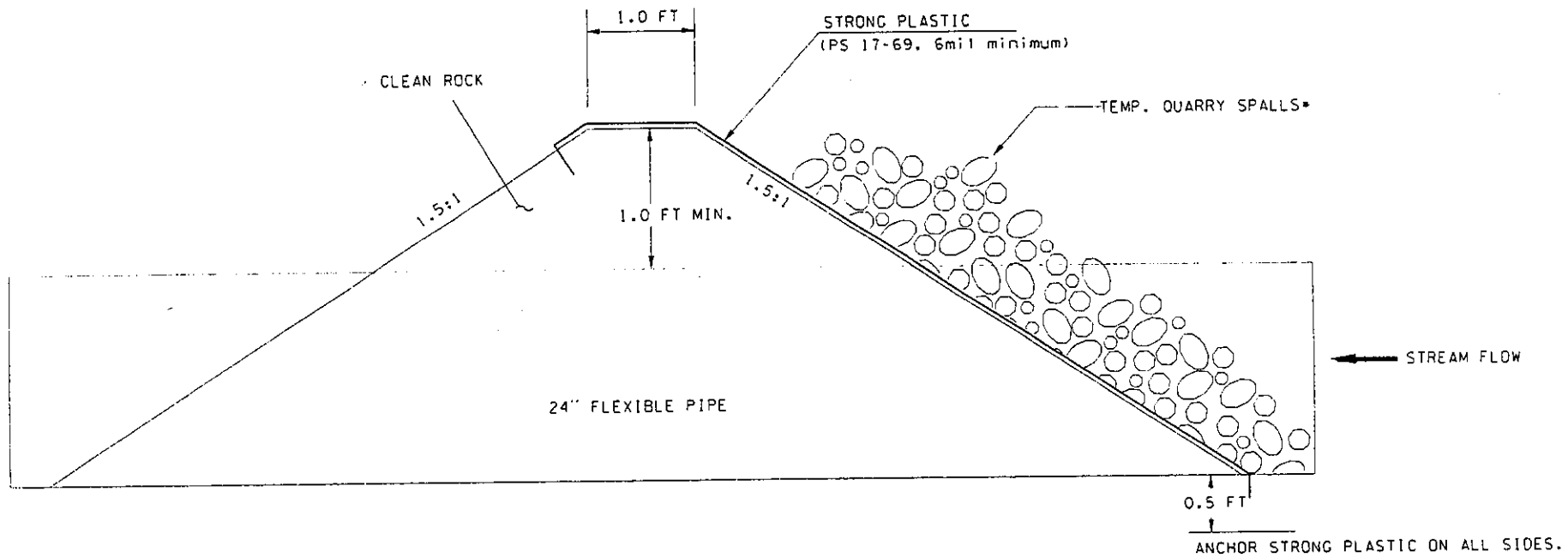
NOT TO SCALE

Washington State Department of Transportation
SR 270; Pullman (WA) to Moscow (ID)
Increase capacity; improve vehicle safety
200500225
Figure 9 of 42 Date: 5/26/05



TEMPORARY DIVERSION DIKE

Washington State Department of Transportation
SR 270; Pullman (WA) to Moscow (ID)
Increase capacity; improve vehicle safety
200500225
Figure 16 of 44 Date: 5/24/05



* Quarry spalls shall be placed on the upstream side on the inlet and the downstream side on the outlet. Quarry spalls shall not damage the strong plastic.

Temporary Below OHWM	Temporary Above OHWM
CUT = 0 cy	CUT = 0 cy
FILL = 27 cy	FILL = 20 cy
AREA = 0.002 ac (64 sf)	AREA = 0.002 ac (64 sf)

TEMPORARY DIVERSION DIKE

CROSS SECTION D-D

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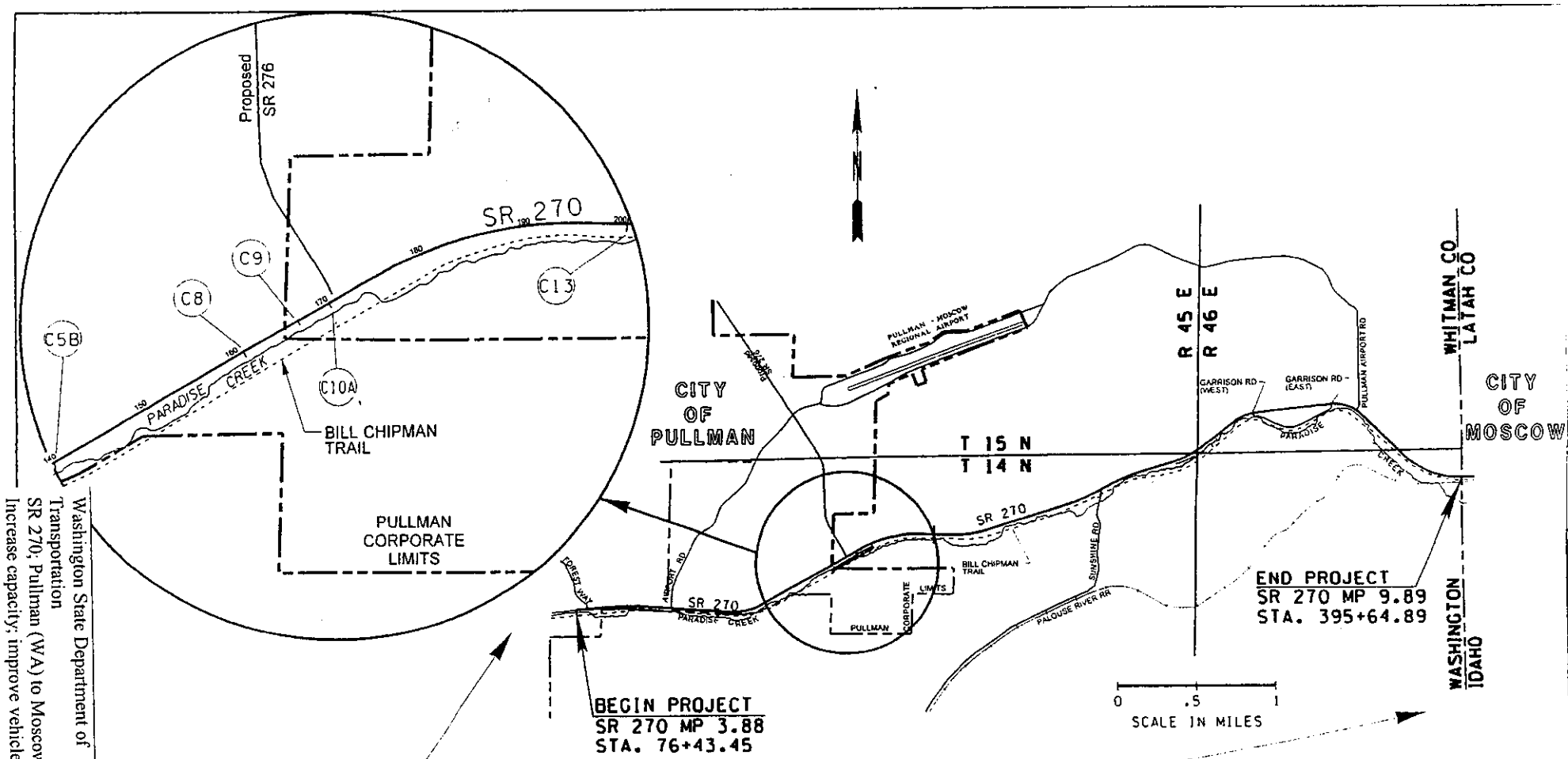
Washington State Department of Transportation
SR 270; Pullman (WA) to Moscow (ID)
Increase capacity; improve vehicle safety
200500225
Figure 11 of 42 Date: 5/26/05



Washington State Department of Transportation
SR 270; Pullman (WA) to Moscow (ID)
Increase capacity; improve vehicle safety
200500225
Figure 12 of 41 Date: 5/26/05

Typical Culvert Extensions

Vicinity Map showing location of jurisdictional culvert impacts

(See Table 15 for impacts)
Figure

VICINITY MAP

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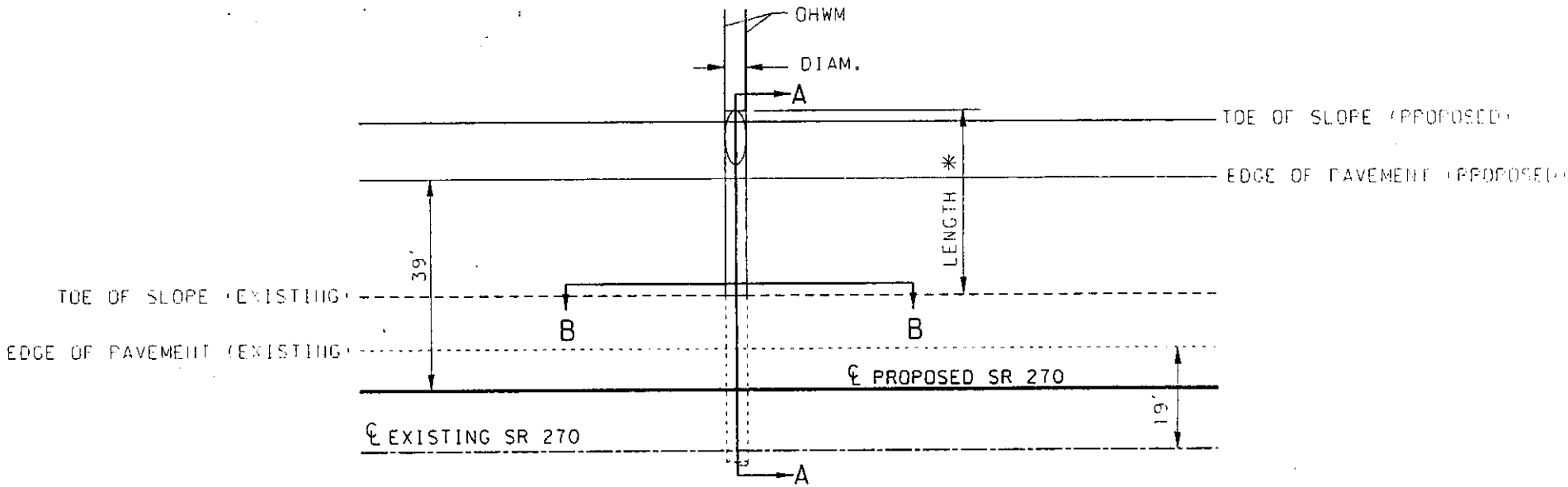
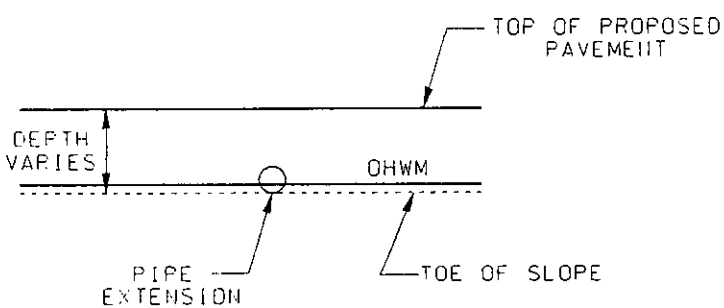
Typical Culvert Extensions

Project:	Extend Existing Conc. Culverts
Purpose:	Widening SR 270 For Additional Lanes
Datum:	NAVD 88
Location:	SR 270 MP ~4.77 to MP ~6.26; T 14N R 45E Sec 03
County of:	Whitman
State of:	Washington

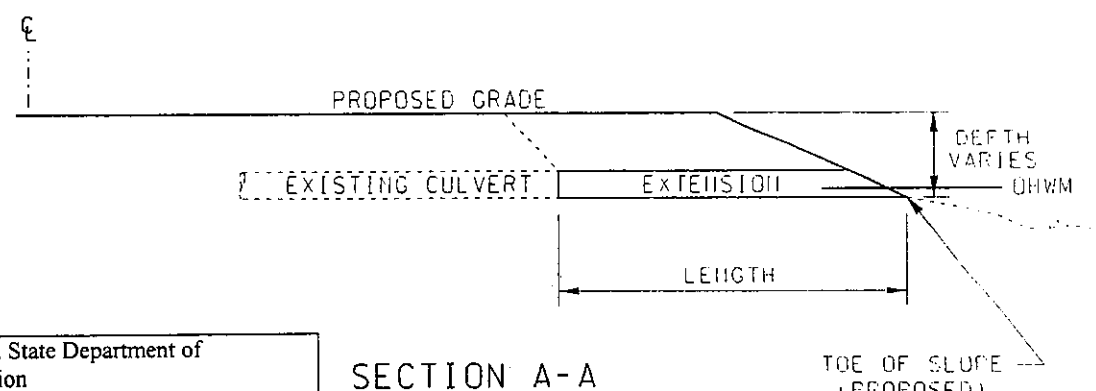
TYPICAL CULVERT EXTENSION



PLAN



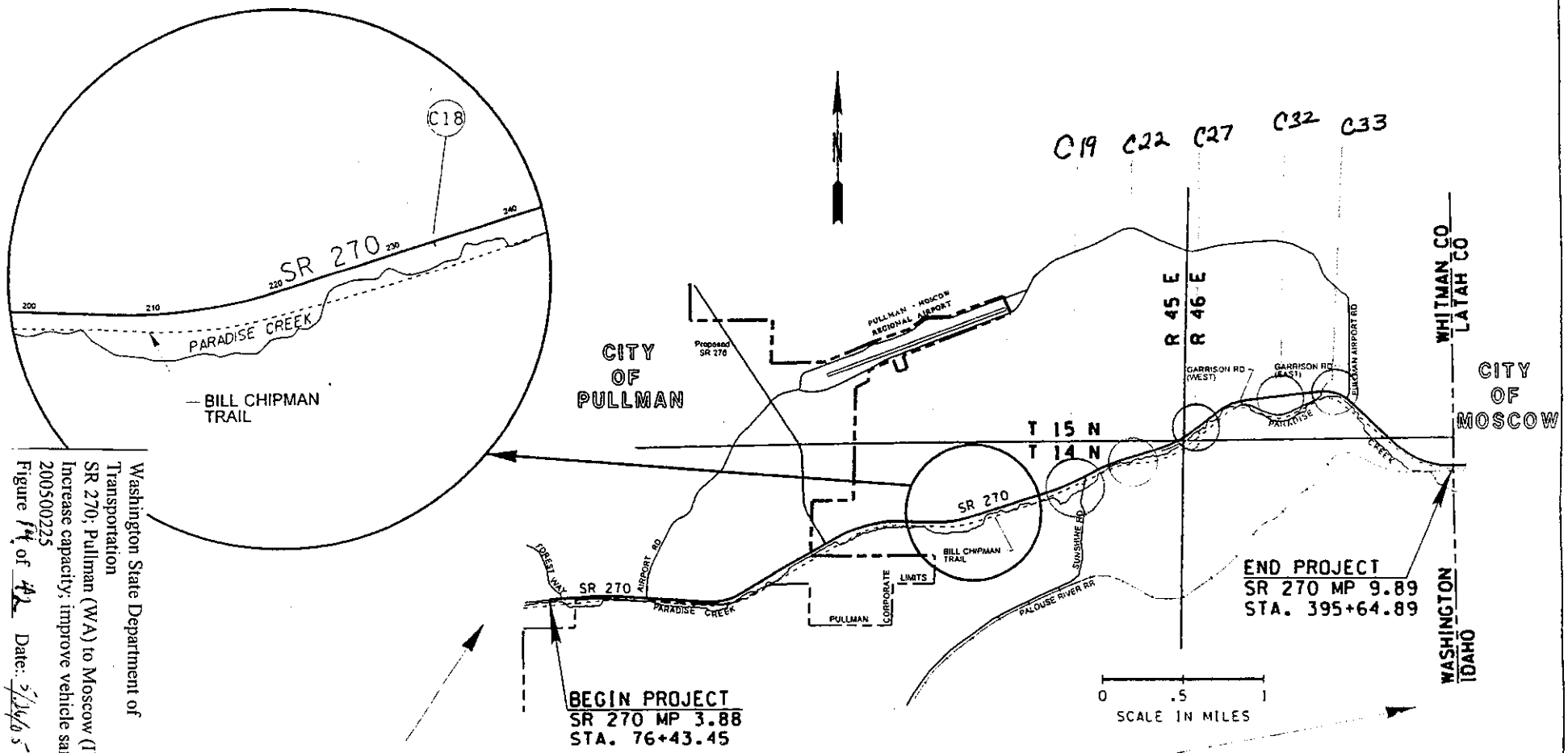
SECTION B-B



SECTION A-A

* SEE ATTACHED TABLE FOR INDIVIDUAL DIMENSIONS

Washington State Department of Transportation
SR 270; Pullman (WA) to Moscow (ID)
Increase capacity; improve vehicle safety
200500225
Figure 13 of 42 Date: 5/24/05



Washington State Department of Transportation
SR 270; Pullman (WA) to Moscow (ID)
Increase capacity; improve vehicle safety
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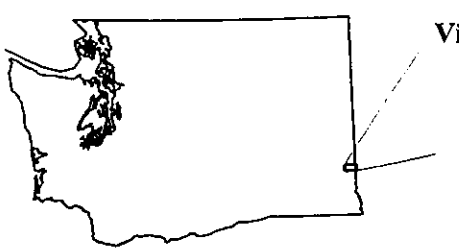
Figure 14 of 42 Date: 3/24/05



Non- Typical Culvert Work

Vicinity Map showing location of jurisdictional culvert impacts
(See Table _____for impacts)

VICINITY MAP

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Culvert Replacement

Project:	Remove & Replace Existing Culvert
Purpose:	Widening SR 270 For Additional Lanes
Datum:	NAVD 88
Location:	SR 270 MP ~6.85;
	T 14N R 45E Sec 02
County of:	Whitman
State of:	Washington

Non-Typical Culvert Work

Culverts	Proposed Action	STA (RT)	Mile Post	USACE Jurisdiction (Culverts)	Size Existing	Diameter Proposed (in)	Permanent work (Outside existing roadway prism) Length Of Work (ft)	Area sqft	Area acres	Fill Below OHWM Vol. (CY)
C18	M	233+25	6.85	YES, Lt and Rt	5'x6'	36	63	315	0.01	4.67
C19	M	245+82	7.09	YES, Lt and Rt	30	60	48	240	0.01	2.22
C22	R	268+21	7.51	YES, Lt and Rt	5'x6'	0	0	0	0.00	0.00
C22	N	269+00	7.53	New	N/A	36	57	171	0.00	2.53
C27	N	292+00	7.96	New	N/A	36	74	222	0.01	2.47
C27	R	293+73	8.00	YES, Lt and Rt	24	0	0	0	0.00	0.00
C32	R	320+89	8.51	YES, Lt and Rt	4'x5'	0	102	0	0.00	0.00
C32	N	321+00	8.51	New	N/A	60	86	430	0.01	6.37
C33 B	R	343+60	8.94	YES, Lt and Rt	24	0	0	0	0.00	0.00
C33 B	N	345+00	8.97	New	N/A	36	49	147	0.00	1.63
									0.04	20

N = New
M = Modified
R = Removed

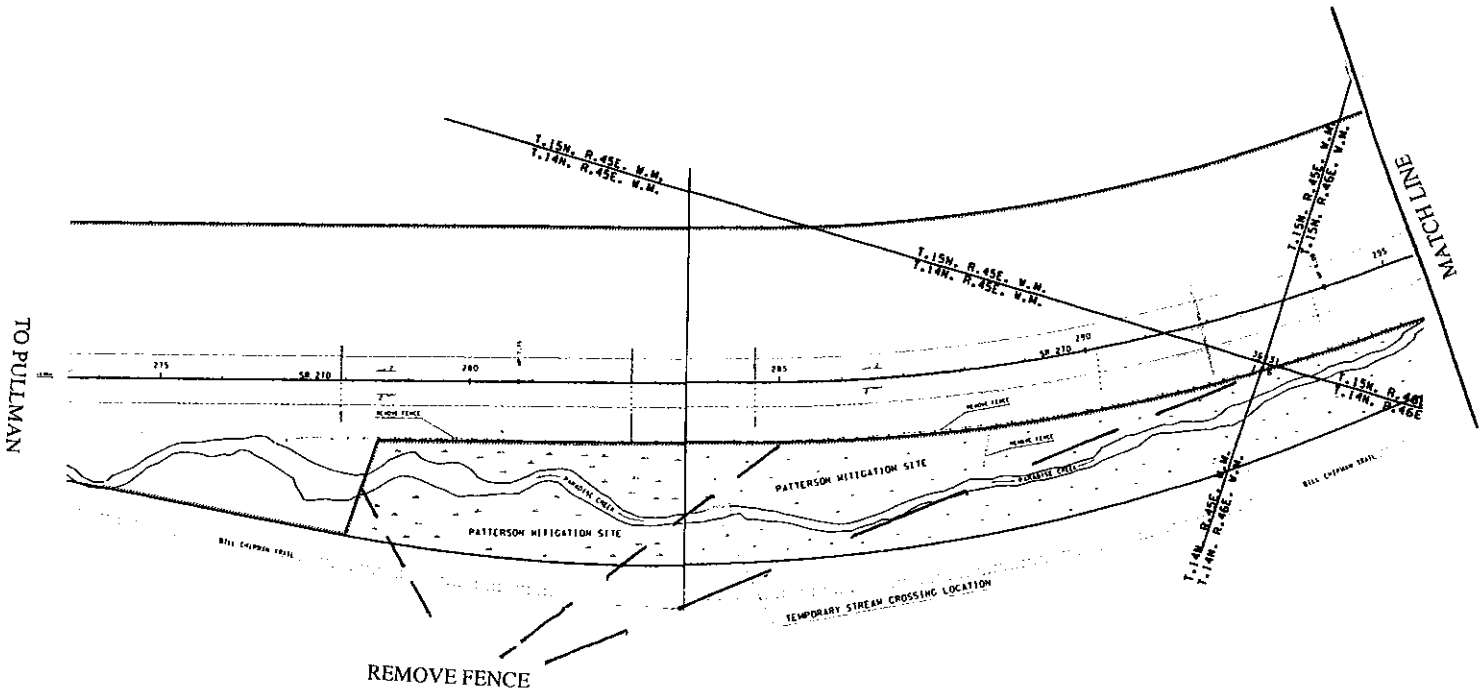
Left (LT) and Right (RT) are determined when traveling ahead on Mile Post (for SR270 that is West to East).

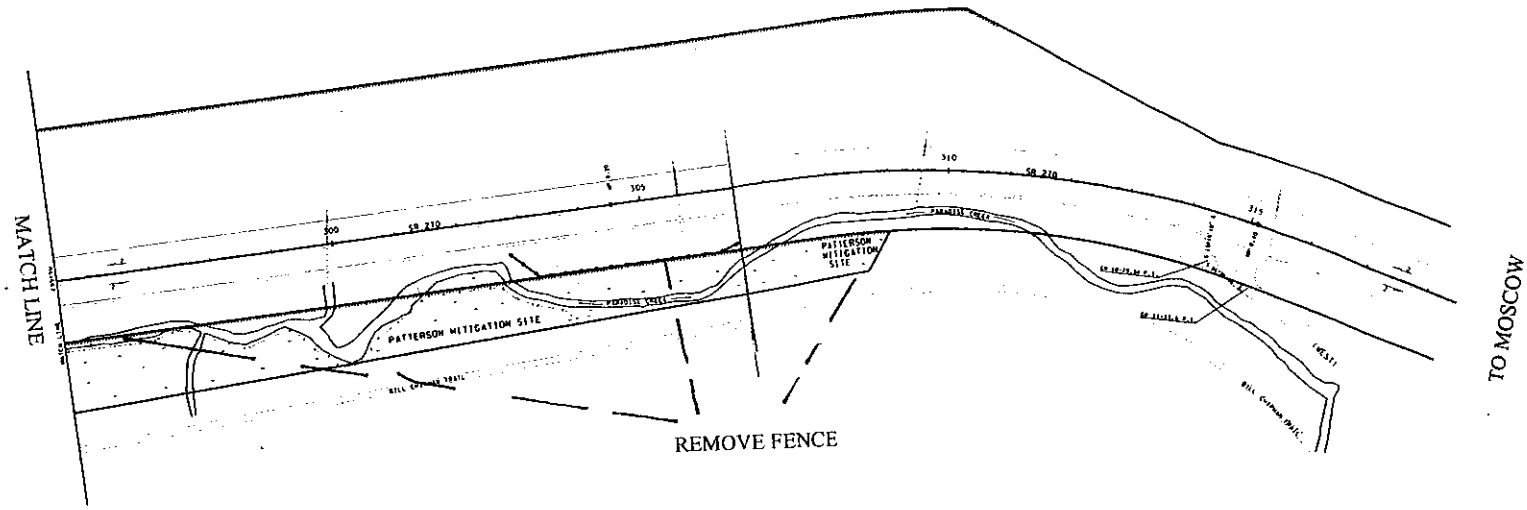
Culvert End Extensions Typical

Culverts	STA (RT)	Mile Post	USACE Jurisdiction (Culverts)	Diameter (inches)	Extension Length LT	Extension Length RT	Area Sq. Ft.	Area Acres	Fill Below OHWM Vol. (CY)
C5 B	140+00	5.08	YES, Lt and Rt	18	41	0	61.5	0.001	0.23
C8	160+90	5.48	YES, Lt & Rt, twin pipes	36	43	19	372.0	0.009	0.41
C9	166+92	5.59	YES, Lt and Rt	18	49	14	94.5	0.002	0.35
C10 A	170+39	5.66	YES, Lt and Rt	30	31	0	77.5	0.002	0.72
C13	202+13	6.26	YES, Lt and Rt	24	75	0	150.0	0.003	1.11
C21	267+36	7.50	YES, Lt and Rt	18	45	3	72.0	0.002	0.27
C28	299+84	8.11	YES, Lt and Rt	18	54	6	90.0	0.002	0.33
C31	315+48	8.41	YES, Lt and Rt	36	54	0	162.0	0.004	1.80
C33 A	337+60	8.83	YES, Lt and Rt	24	56	20	152.0	0.003	1.13
							1231.50	0.028	6.35

Left (LT) and Right (RT) are determined when traveling ahead on Mile Post (for SR270 that is West to East).

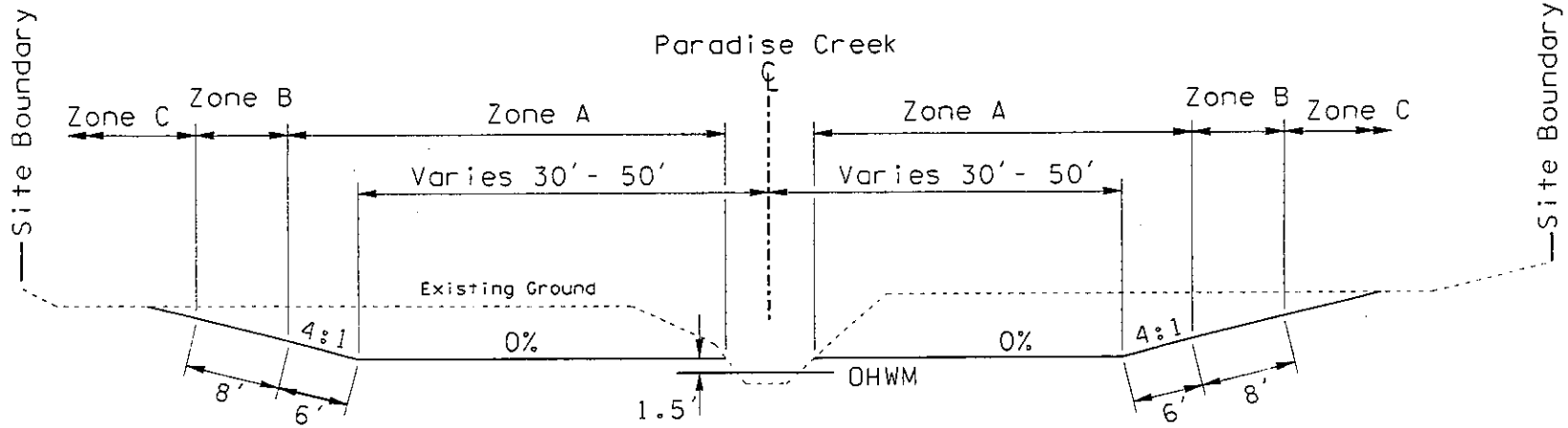
Lengths of extensions are shown as "0" length if there will be no work done on that end.





Patterson Mitigation Site: Remove Fence, Regrade to create wetlands, Enhance with Native trees and woody shrubs.

Washington State Department of Transportation
SR 270; Pullman (WA) to Moscow (ID)
Increase capacity; improve vehicle safety
200500225
Figure 16 of 42 Date: 5/26/05



Washington State Department of Transportation
SR 270; Pullman (WA) to Moscow (ID)
Increase capacity; improve vehicle safety
200500225
Figure 17 of 42 Date: 5/24/05

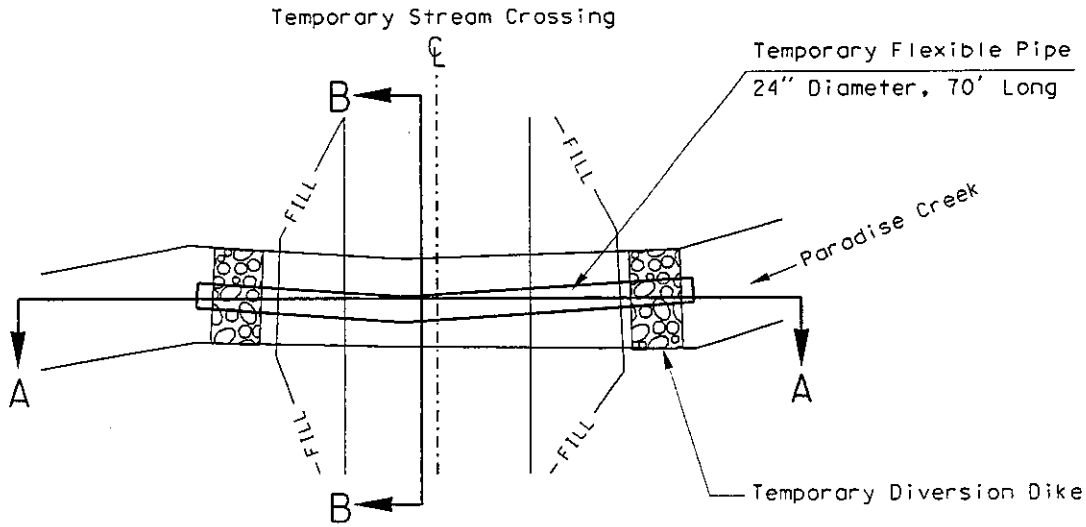
TYPICAL SECTION
Not to Scale

General Notes:

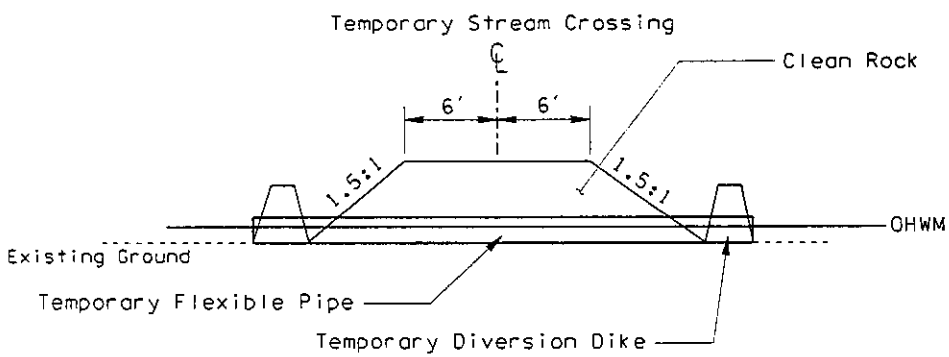
1. Zones to be staked in field according to hydrology.
2. Salvage flagged existing plants.
3. No excavation below OHWM.

TEMPORARY EXCAVATION	
BELOW OHWM	ABOVE OHWM
CUT = 0 CY FILL = 0 CY	CUT = 0 CY FILL = 0 CY
PERMANENT EXCAVATION	
BELOW OHWM	ABOVE OHWM
CUT = 0 CY FILL = 0 CY	CUT = 18,500 CY FILL = 0 CY
TOTAL EXCAVATION	
BELOW OHWM	ABOVE OHWM
CUT = 0 CY FILL = 0 CY AREA = 0 Ac. (0 SF)	CUT = 18,500 CY FILL = 0 CY AREA = 2.75 Ac. (120,000 SF)

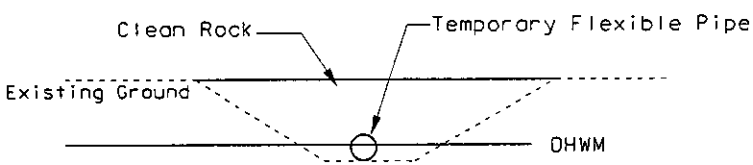
PLANT SELECTION	
Zone A	Spacing
Pacific Willow	3 foot centers
Red Osier Dogwood	3 foot centers
Nootka Rose	6 foot centers
Zone B	Spacing
Snow Berry	6 foot centers
Mallow Ninebark	6 foot centers
Nootka Rose	6 foot centers
Quaking Aspen	6 foot centers
Red Osier Dogwood	6 foot centers
Hawthorne	6 foot centers
Zone C	Spacing
Service Berry	6 foot centers
Woods Rose	6 foot centers
Nootka Rose	6 foot centers
Cottonwood	6 foot centers
Elderberry	6 foot centers
Oceanspray	6 foot centers
Snow Berry	6 foot centers
Quaking Aspen	6 foot centers
Red Osier Dogwood	6 foot centers
Mallow Ninebark	6 foot centers



PLAN
Not to Scale



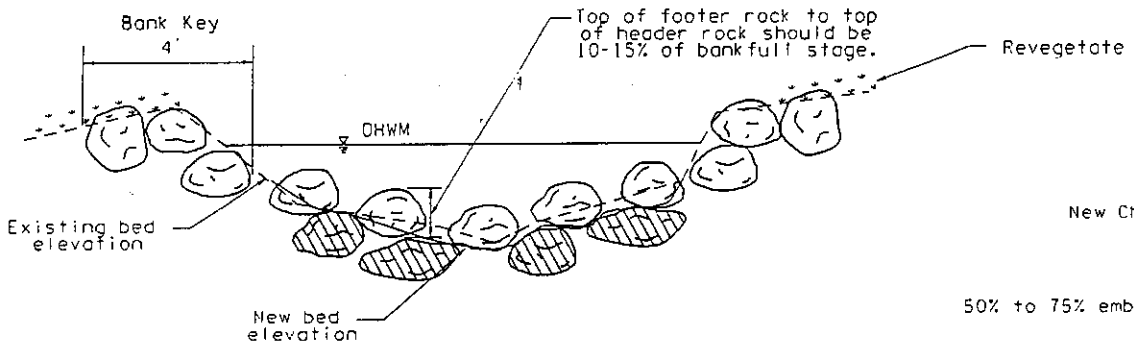
SECTION A-A
Not to Scale



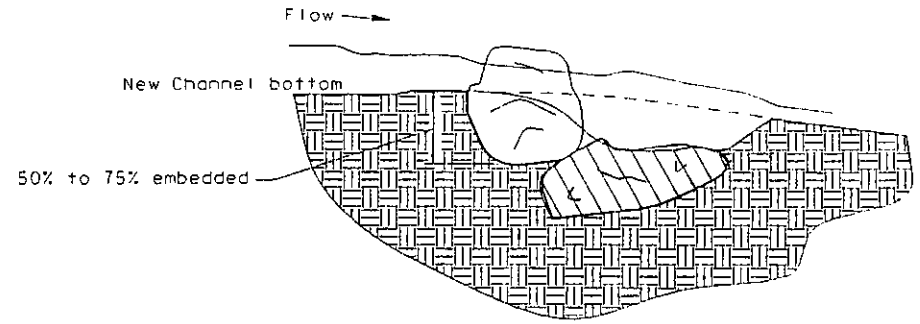
SECTION B-B
Not to Scale

Washington State Department of Transportation
SR 270; Pullman (WA) to Moscow (ID)
Increase capacity; improve vehicle safety
200500225
Figure 13 of 42 Date: 5/26/05

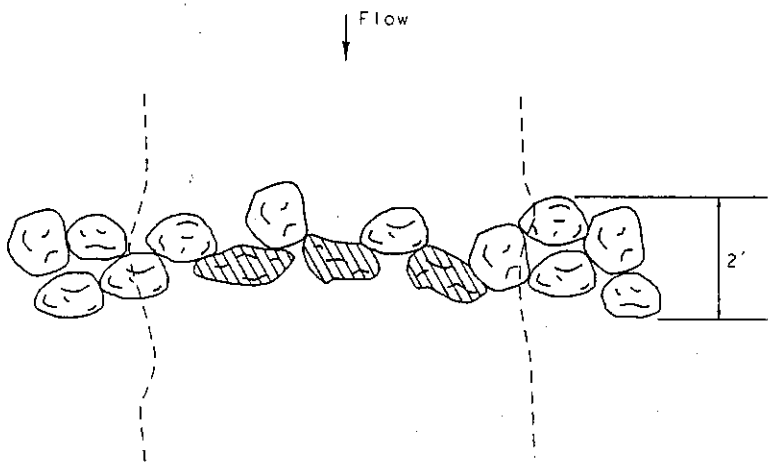
TEMPORARY EXCAVATION	
BELOW OHWM	ABOVE OHWM
CUT = 0 CY FILL = 50 CY	CUT = 0 CY FILL = 110 CY
PERMANENT EXCAVATION	
BELOW OHWM	ABOVE OHWM
CUT = 0 CY FILL = 0 CY	CUT = 0 CY FILL = 0 CY
TOTAL EXCAVATION	
BELOW OHWM	ABOVE OHWM
CUT = 0 CY FILL = 50 CY AREA = 0.02 Ac. (900 SF)	CUT = 0 CY FILL = 110 CY AREA = 0.03 Ac. (1,300 SF)



X-Section View



X-Section View (Expanded)



Plan View

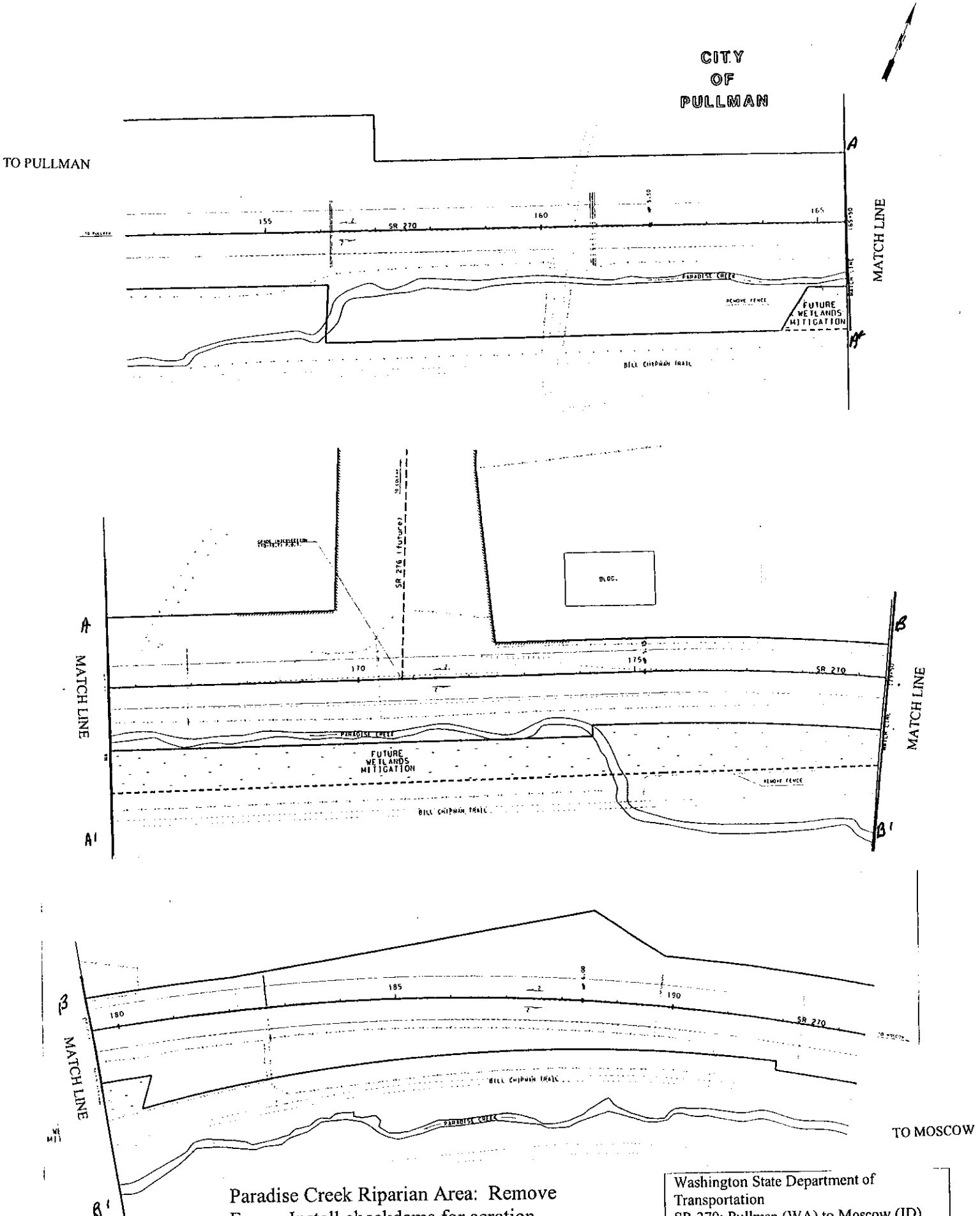
4 Rock Check Dams

Below OHWM	Above OHWM
FILL = 12cy	FILL = 16cy
AREA = 0.004ac (175sf)	AREA = 0.005ac (218sf)

Light Loose Riprap

Rock Check Dam Detail

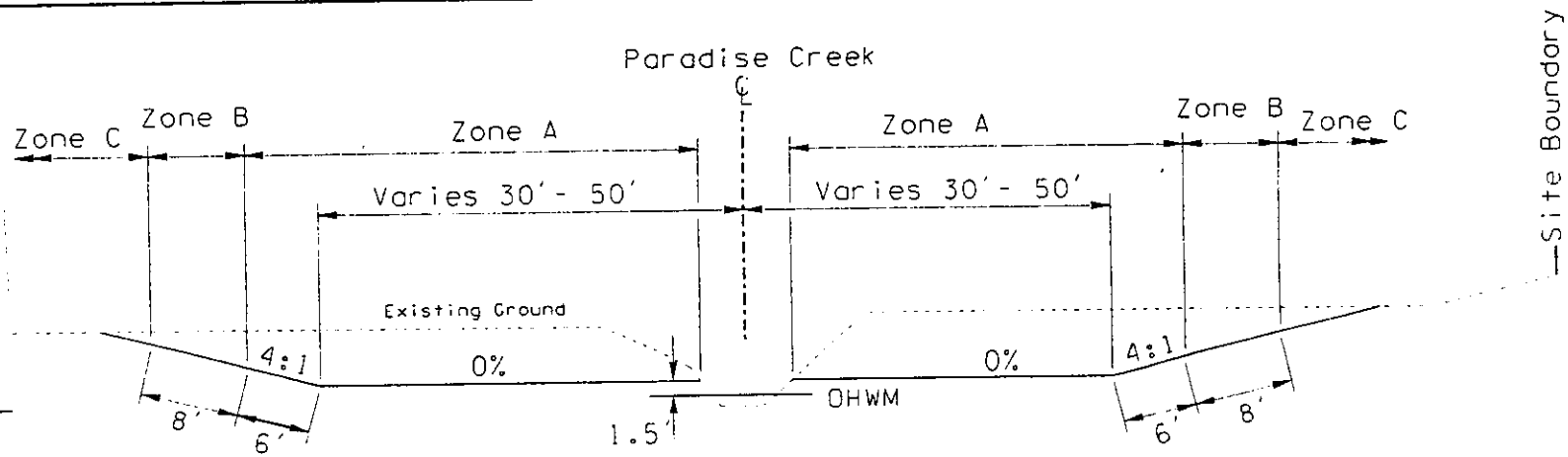
Washington State Department of Transportation
SR 270; Pullman (WA) to Moscow (ID)
Road widening and improvements
200500225
Figure 19 of 42 Date: 5/23/05



Paradise Creek Riparian Area: Remove Fence, Install checkdams for aeration, Install 2 Fish-passable culverts.

Washington State Department of Transportation
SR 270; Pullman (WA) to Moscow (ID)
Increase capacity; improve vehicle safety
200500225
Figure 1.0 of 42 Date: 5/26/05

Washington State Department of Transportation
SR 270; Pullman (WA) to Moscow (ID)
Road widening and improvements
200500225
Figure 21 of 42 Date: 5/26/05



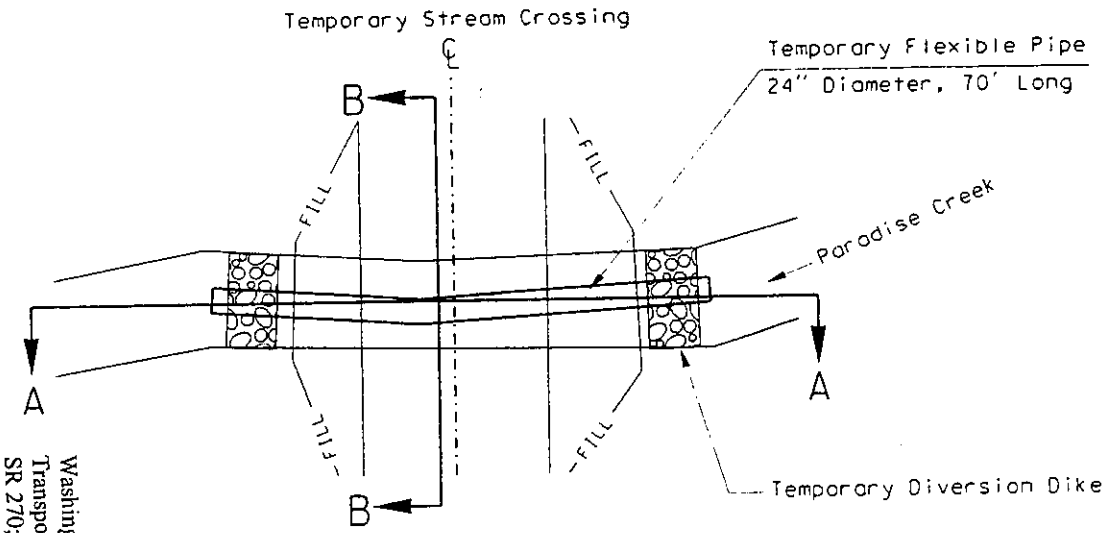
TYPICAL SECTION
Not to Scale

General Notes:

1. Zones to be staked in field according to hydrology.
2. Salvage flagged existing plants.
3. No excavation below OHWM.

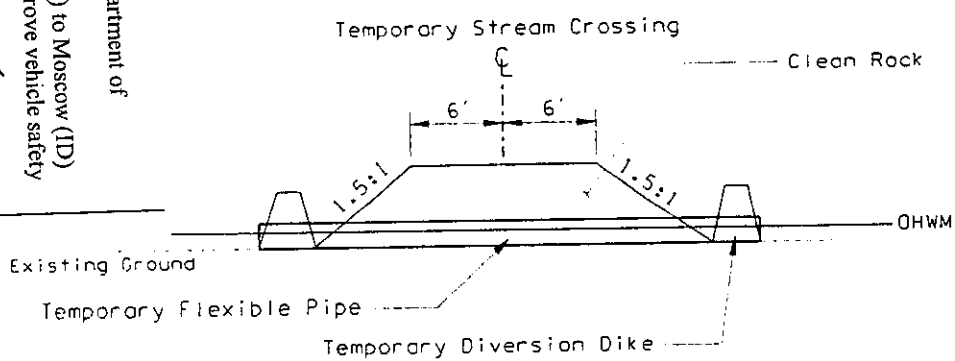
TEMPORARY EXCAVATION	
BELOW OHWM	ABOVE OHWM
CUT = 0 CY FILL = 0 CY	CUT = 0 CY FILL = 0 CY
PERMANENT EXCAVATION	
BELOW OHWM	ABOVE OHWM
CUT = 0 CY FILL = 0 CY	CUT = 18,500 CY FILL = 0 CY
TOTAL EXCAVATION	
BELOW OHWM	ABOVE OHWM
CUT = 0 CY FILL = 0 CY AREA = 0 Ac. (0 SF)	CUT = 18,500 CY FILL = 0 CY AREA = 2.75 Ac. (120,000 SF)

PLANT SELECTION	
Zone A	Spacing
Pacific Willow	3 foot centers
Red Osier Dogwood	3 foot centers
Nootka Rose	6 foot centers
Zone B	Spacing
Snow Berry	6 foot centers
Mallow Ninebark	6 foot centers
Nootka Rose	6 foot centers
Quaking Aspen	6 foot centers
Red Osier Dogwood	6 foot centers
Hawthorne	6 foot centers
Zone C	Spacing
Service Berry	6 foot centers
Woods Rose	6 foot centers
Nootka Rose	6 foot centers
Cottonwood	6 foot centers
Elderberry	6 foot centers
Oceanspray	6 foot centers
Snow Berry	6 foot centers
Quaking Aspen	6 foot centers
Red Osier Dogwood	6 foot centers
Mallow Ninebark	6 foot centers

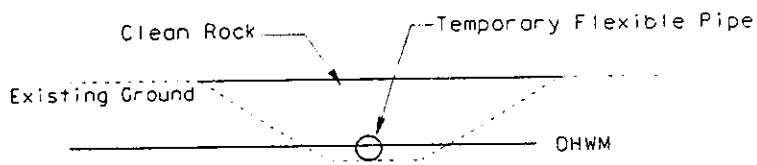


PLAN
Not to Scale

TEMPORARY EXCAVATION	
BELOW OHWM	ABOVE OHWM
CUT = 0 CY FILL = 50 CY	CUT = 0 CY FILL = 110 CY
PERMANENT EXCAVATION	
BELOW OHWM	ABOVE OHWM
CUT = 0 CY FILL = 0 CY	CUT = 0 CY FILL = 0 CY
TOTAL EXCAVATION	
BELOW OHWM	ABOVE OHWM
CUT = 0 CY FILL = 50 CY AREA = 0.02 Ac. (900 SF)	CUT = 0 CY FILL = 110 CY AREA = 0.03 Ac. (1,300 SF)

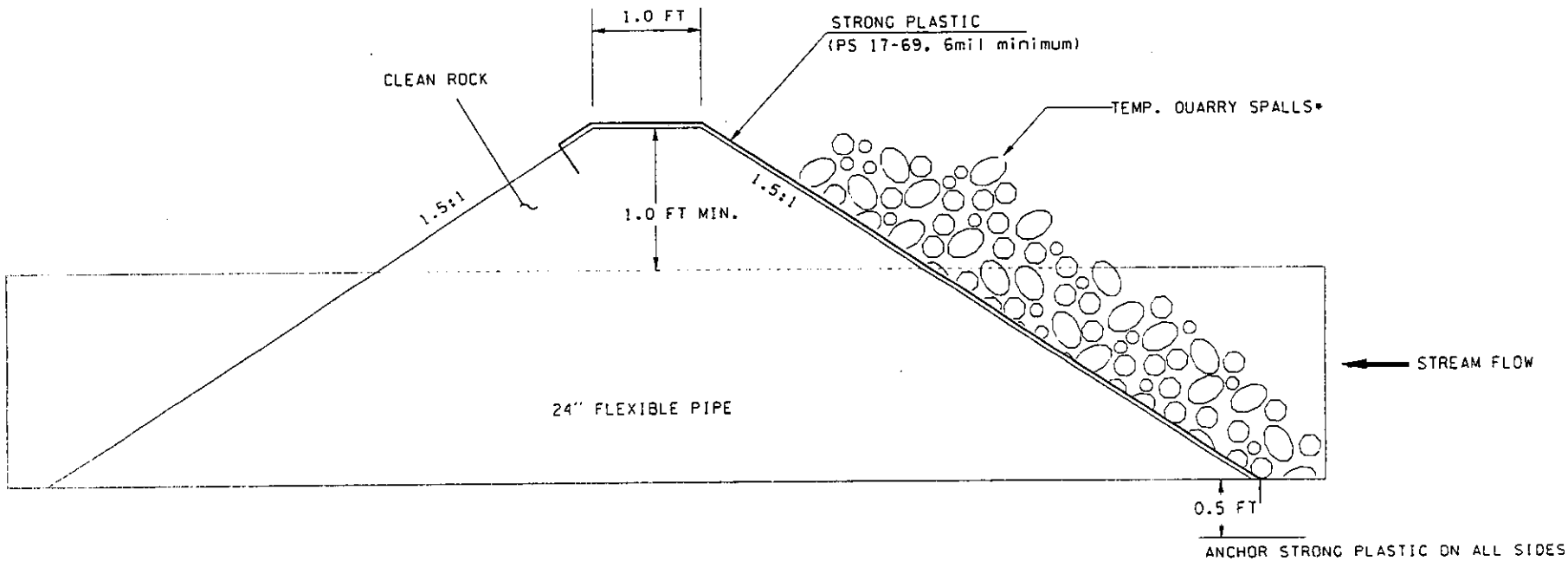


SECTION A-A
Not to Scale



SECTION B-B
Not to Scale

Washington State Department of Transportation
SR 270; Pullman (WA) to Moscow (ID)
Increase capacity; improve vehicle safety
200500225
Figure 4.2 of 4.2 Date: 5/24/05



* Quarry spalls shall be placed on the upstream side on the inlet and the downstream side on the outlet. Quarry spalls shall not damage the strong plastic.

Temporary Below OHWM	Temporary Above OHWM
CUT = 0 cy FILL = 56 cy AREA = 0.004 ac (128 sf)	CUT = 0 cy FILL = 40 cy AREA = 0.004 ac (120 sf)

TEMPORARY DIVERSION DIKE

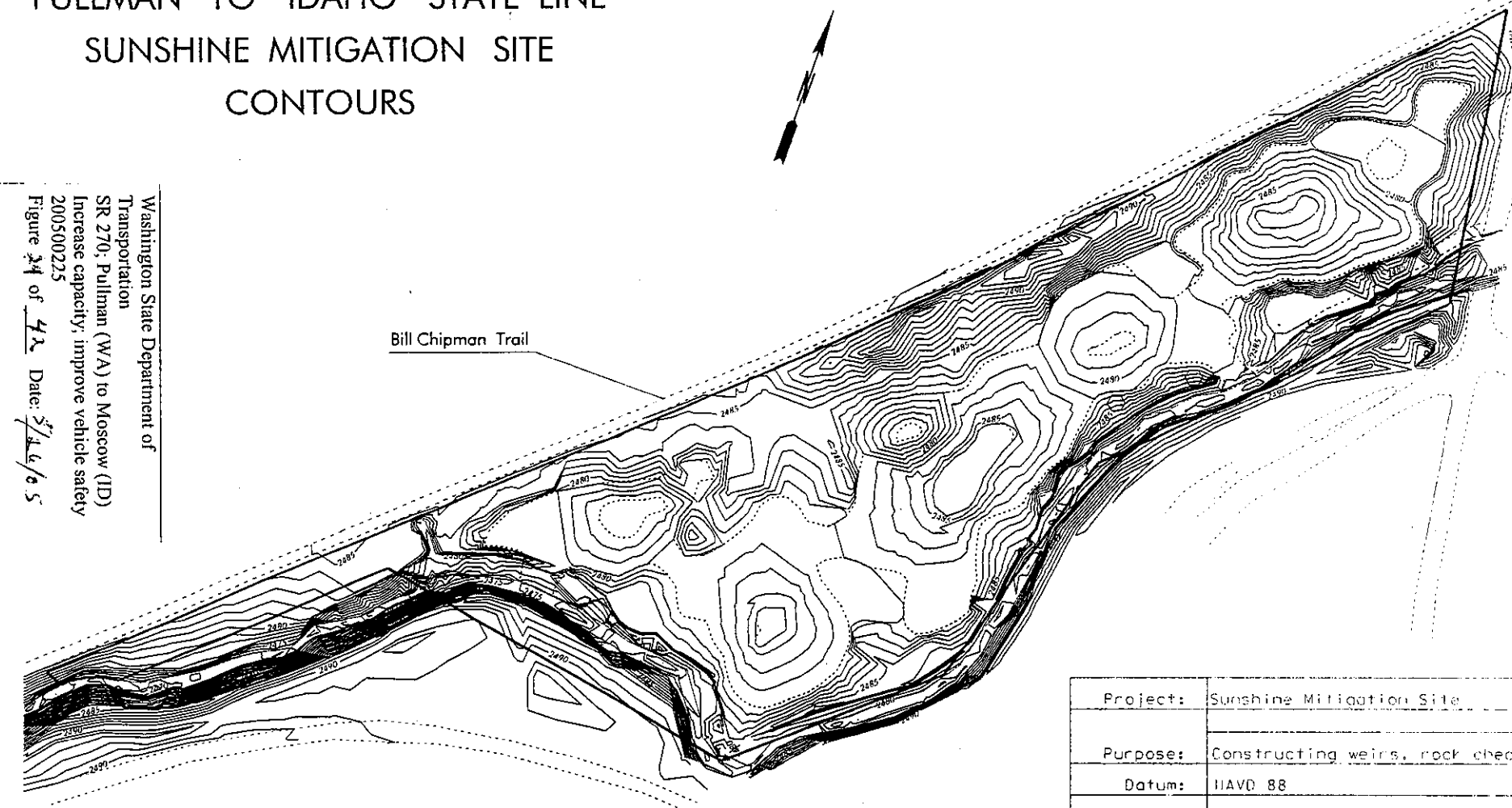
CROSS SECTION D-D

8 of 8

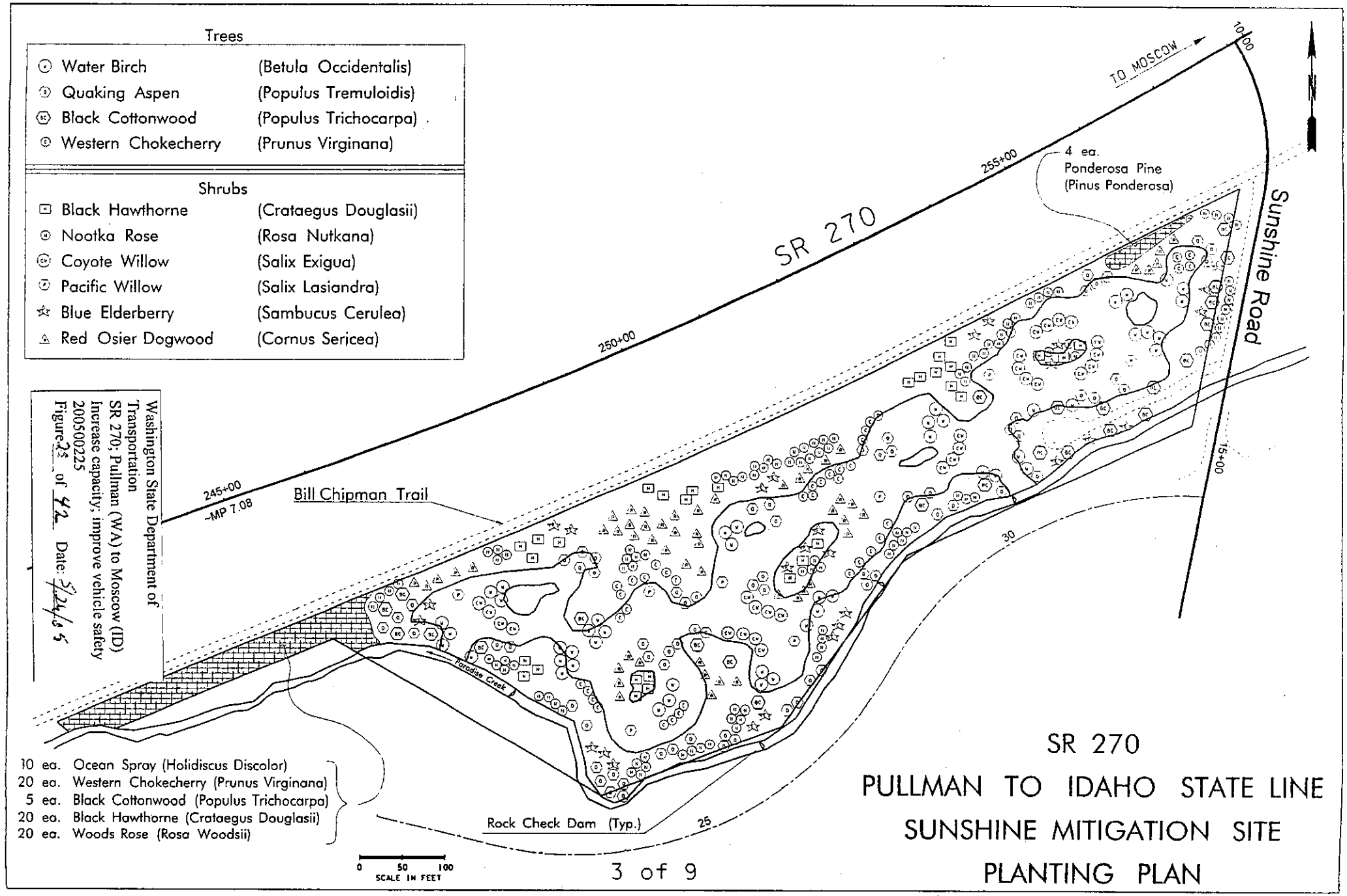
Washington State Department of Transportation
SR 270, Pullman (WA) to Moscow (ID)
Increase capacity; improve vehicle safety
200500225
Figure 13 of 42 Date: 5/26/05

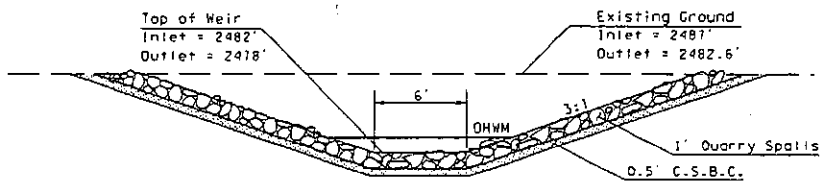
SR 270
PULLMAN TO IDAHO STATE LINE
SUNSHINE MITIGATION SITE
CONTOURS

Washington State Department of Transportation
SR 270; Pullman (WA) to Moscow (ID)
Increase capacity; improve vehicle safety
200500225
Figure 34 of 42 Date: 7/14/05

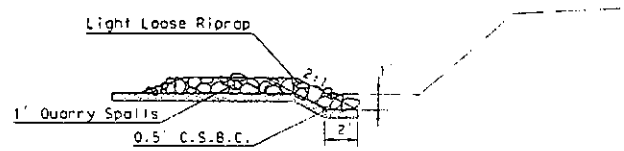


Project:	Sunshine Mitigation Site
Purpose:	Constructing weirs, rock check dams
Datum:	NAVD 88
Location:	SR 270 MP ~7.09
	T 14N R 45E Sec.1
County of:	Whitman
State of:	Washington
Adjacent Land Owners:	Whitman County Parks Department

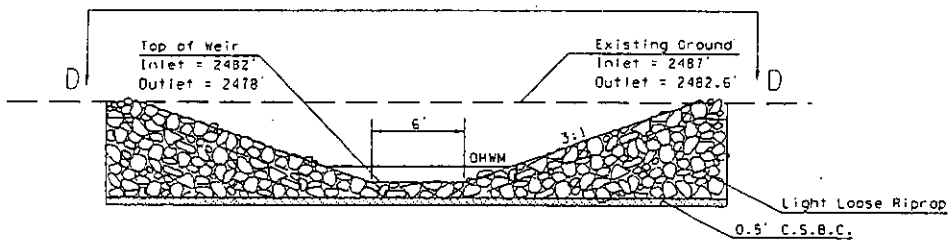

Trees
Water Birch (Betula Occidentalis)
Quaking Aspen (Populus Tremuloidis)
Black Cottonwood (Populus Trichocarpa)
Western Chokecherry (Prunus Virginana)
Shrubs
Black Hawthorne (Crataegus Douglasii)
Nootka Rose (Rosa Nutkana)
Coyote Willow (Salix Exigua)
Pacific Willow (Salix Lasiandra)
Blue Elderberry (Sambucus Cerulea)
Red Osier Dogwood (Cornus Sericea)
Washington State Department of Transportation
SR 270; Pullman (WA) to Moscow (ID)
Increase capacity; improve vehicle safety
200500225
Figure 23 of 42 Date: 5/24/05
SR 270
TO MOSCOW
Sunshine Road
4 ea. Ponderosa Pine (Pinus Ponderosa)
245+00
~MP 7.08
250+00
255+00
10+00
15+00
Bill Chipman Trail
Paradise Creek
Rock Check Dam (Typ.)
25
30
10 ea. Ocean Spray (Holidiscus Discolor)
20 ea. Western Chokecherry (Prunus Virginana)
5 ea. Black Cottonwood (Populus Trichocarpa)
20 ea. Black Hawthorne (Crataegus Douglasii)
20 ea. Woods Rose (Rosa Woodsii)
0 50 100
SCALE IN FEET
SR 270
PULLMAN TO IDAHO STATE LINE
SUNSHINE MITIGATION SITE
PLANTING PLAN



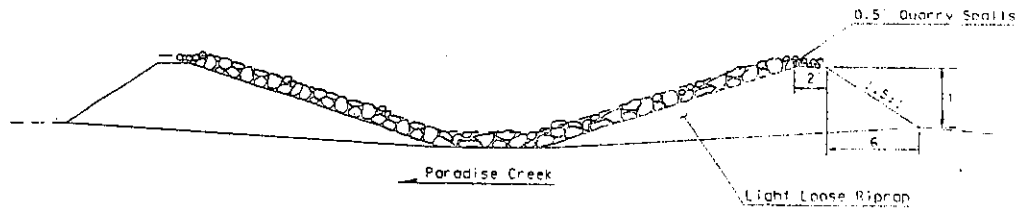
Section A-A



Section B-B



Section C-C



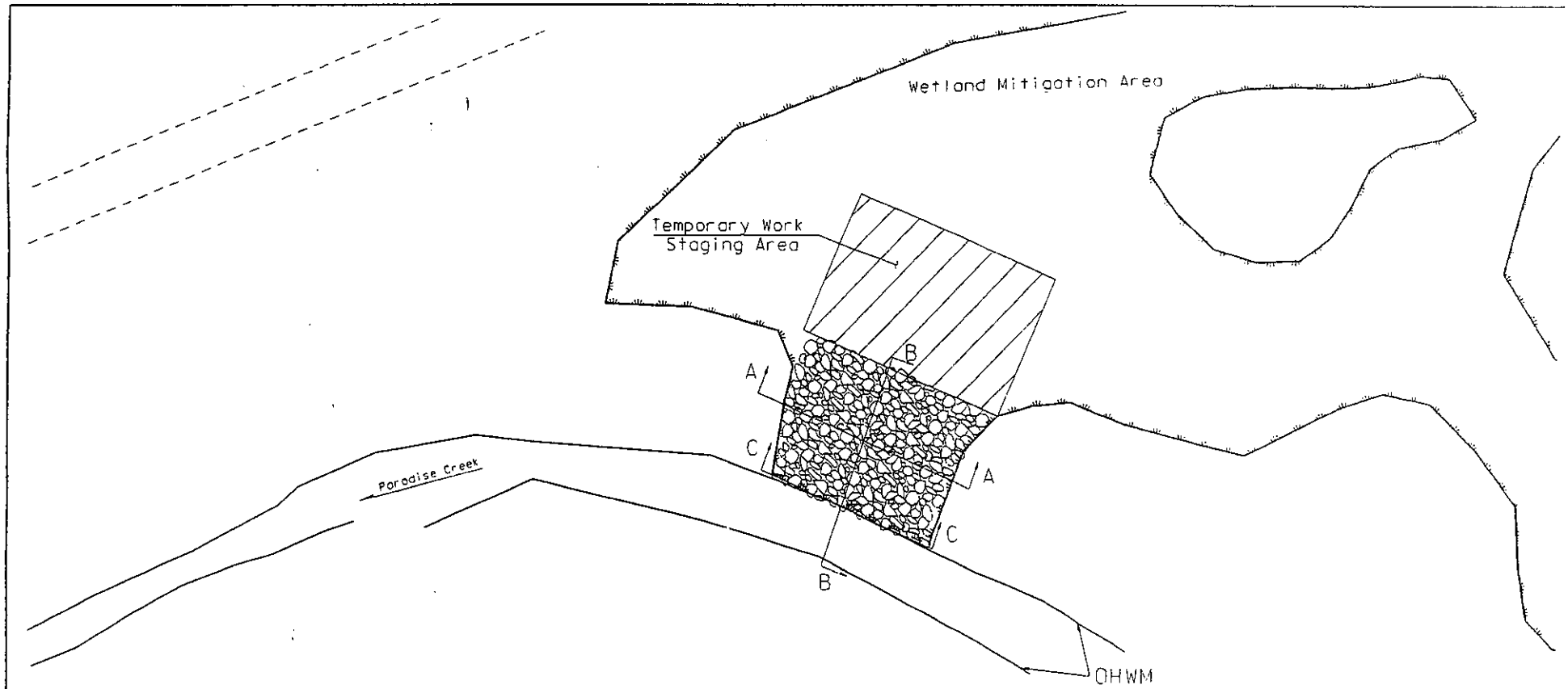
Section D-D

0 5 10
SCALE IN FEET

Weir Details

Project:	Wetland Mitigation Site
Purpose:	New wetland mitigation site
Datum:	NAVD 88
Location:	SR 270 MP ~9.07; T 14N R 45E Sec 1
County of:	Whitman
State of:	Washington
Adjacent Land Owners:	Whitman County Parks Department, WSDOT

Washington State Department of Transportation
SR 270; Pullman (WA) to Moscow (ID)
Increase capacity; improve vehicle safety
200500225
Figure 26 of 42 Date: 5/26/05



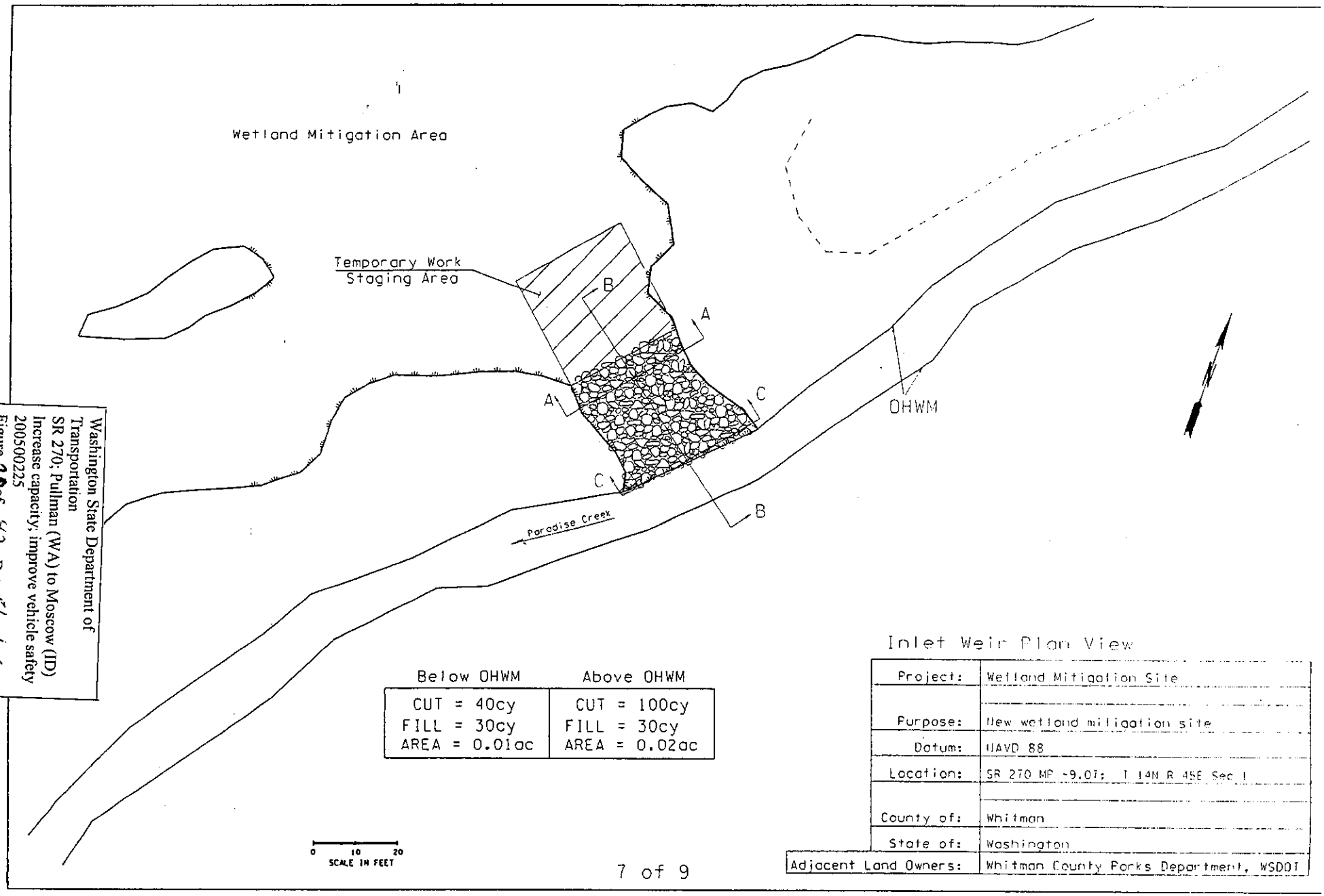
Below OHWM	Above OHWM
CUT = 40cy	CUT = 150cy
FILL = 30cy	FILL = 45cy
AREA = 0.01ac	AREA = 0.03ac

0 10 20
SCALE IN FEET

Outlet Weir Plan View

Project:	Wetland Mitigation Site
Purpose:	New wetland mitigation site
Datum:	NAVD 88
Location:	SR 270 MP ~9.07; T 14N R 45E Sec 1
County of:	Whitman
State of:	Washington
Adjacent Land Owners:	Whitman County Parks Department, WSDOT

Washington State Department of Transportation
SR 270; Pullman (WA) to Moscow (ID) Road widening and improvements
200500225
Figure 4.7 of 44 Date: 5/24/05



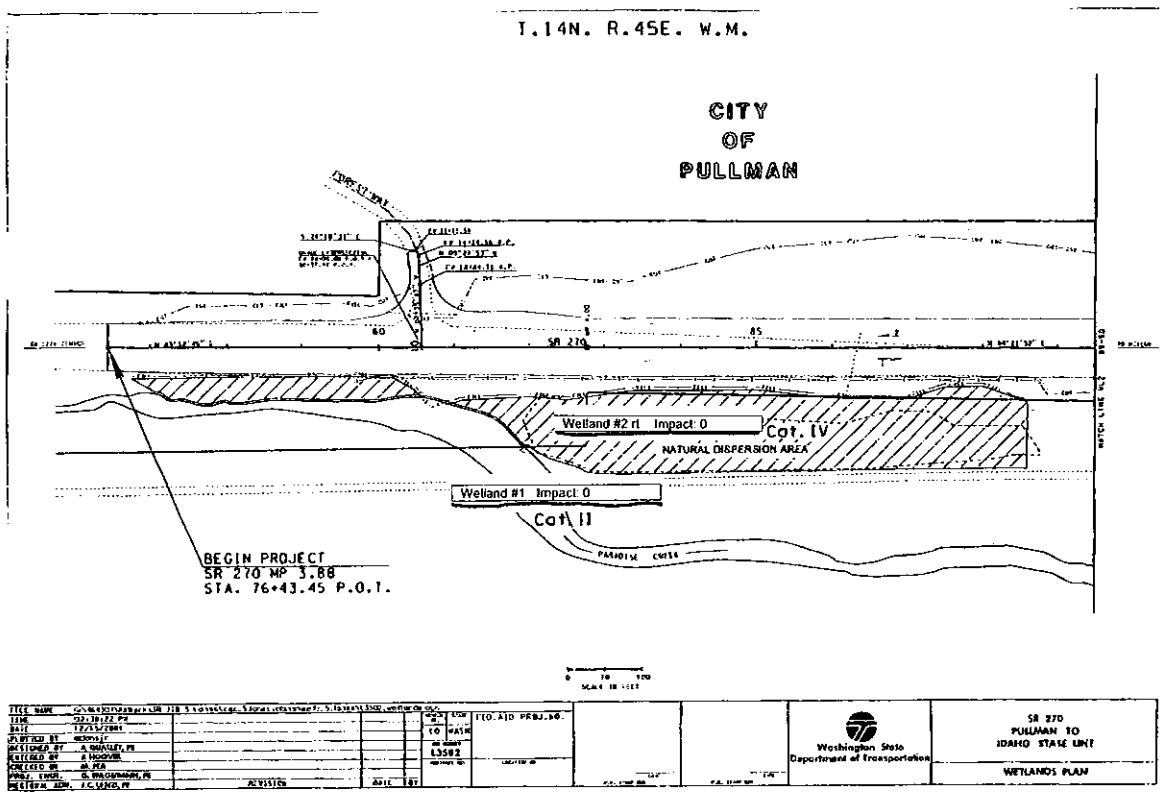
Below OHWM	Above OHWM
CUT = 40cy	CUT = 100cy
FILL = 30cy	FILL = 30cy
AREA = 0.01ac	AREA = 0.02ac

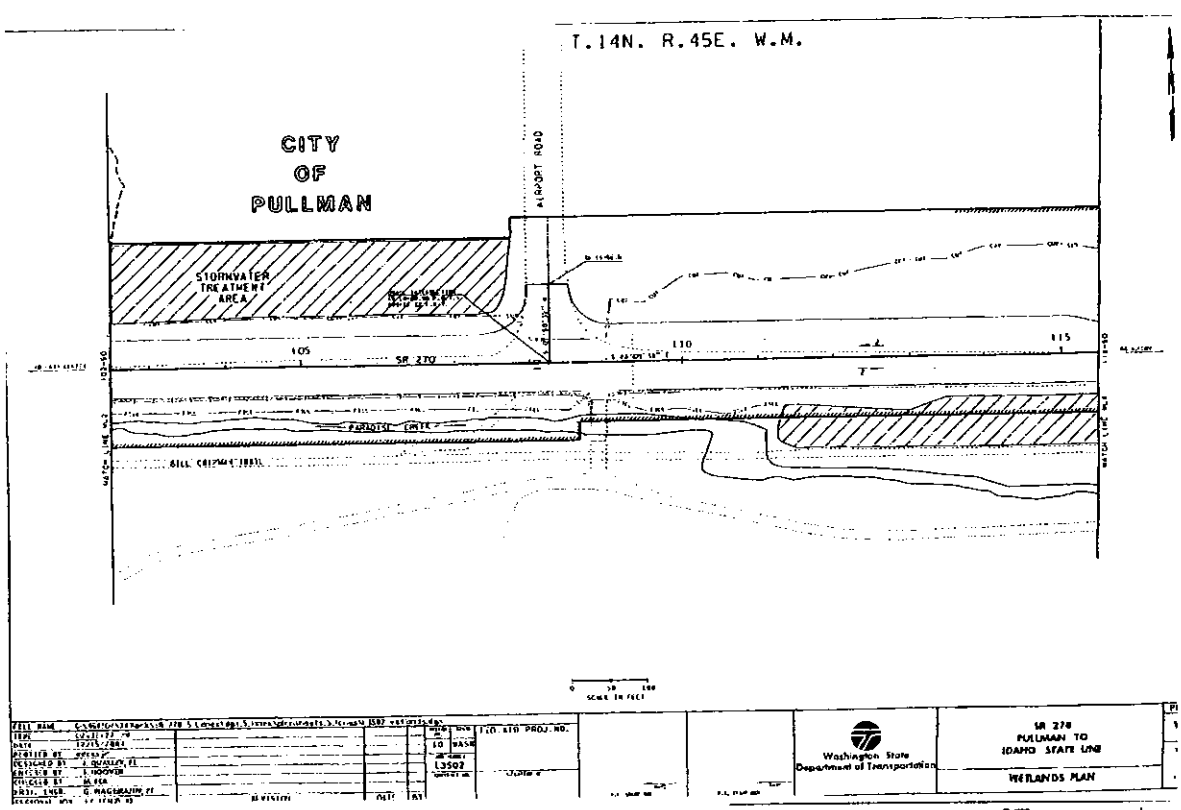
Inlet Weir Plan View

Project:	Wetland Mitigation Site
Purpose:	New wetland mitigation site
Datum:	NAVD 88
Location:	SR 270 MP ~9.07; T 14N R 45E Sec 1
County of:	Whitman
State of:	Washington
Adjacent Land Owners:	Whitman County Parks Department, WSDOT

Washington State Department of Transportation
SR 270; Pullman (WA) to Moscow (ID)
Increase capacity; improve vehicle safety
200500225
Figure 2B of 43 Date: 5/24/05

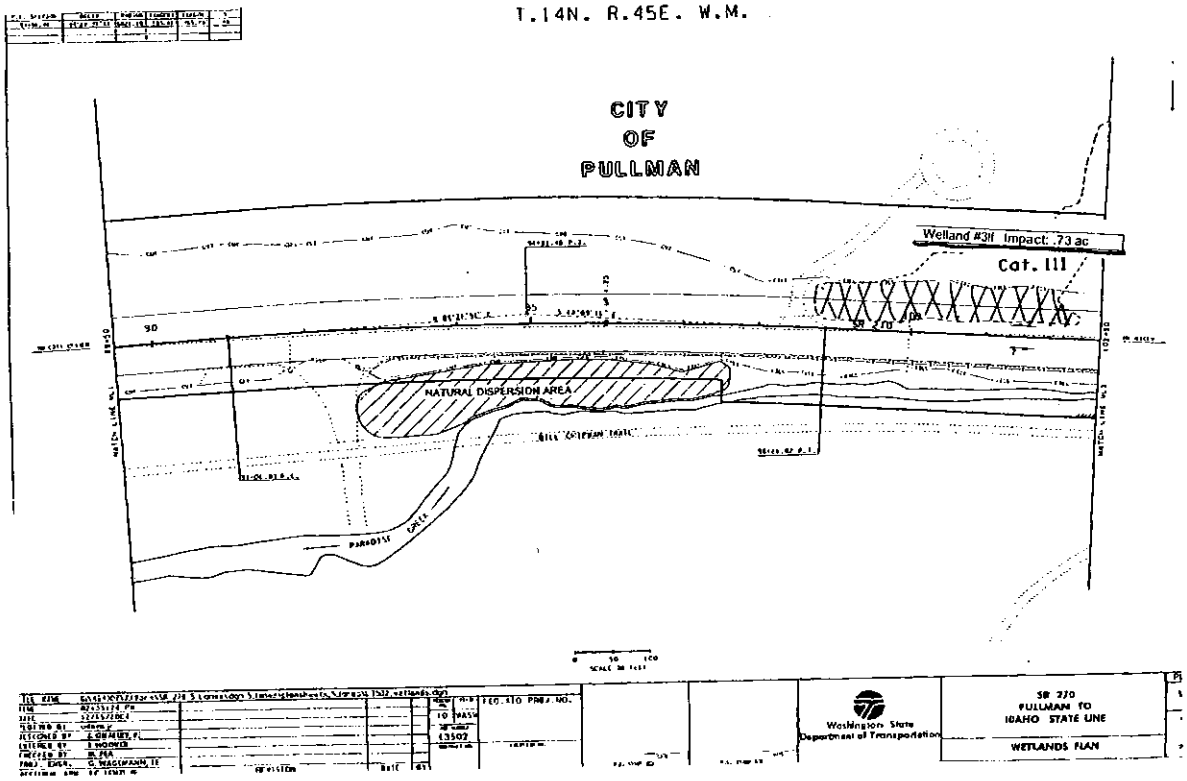
Alignment of SR270 from Pullman to Moscow
Showing location of individual wetland impacts





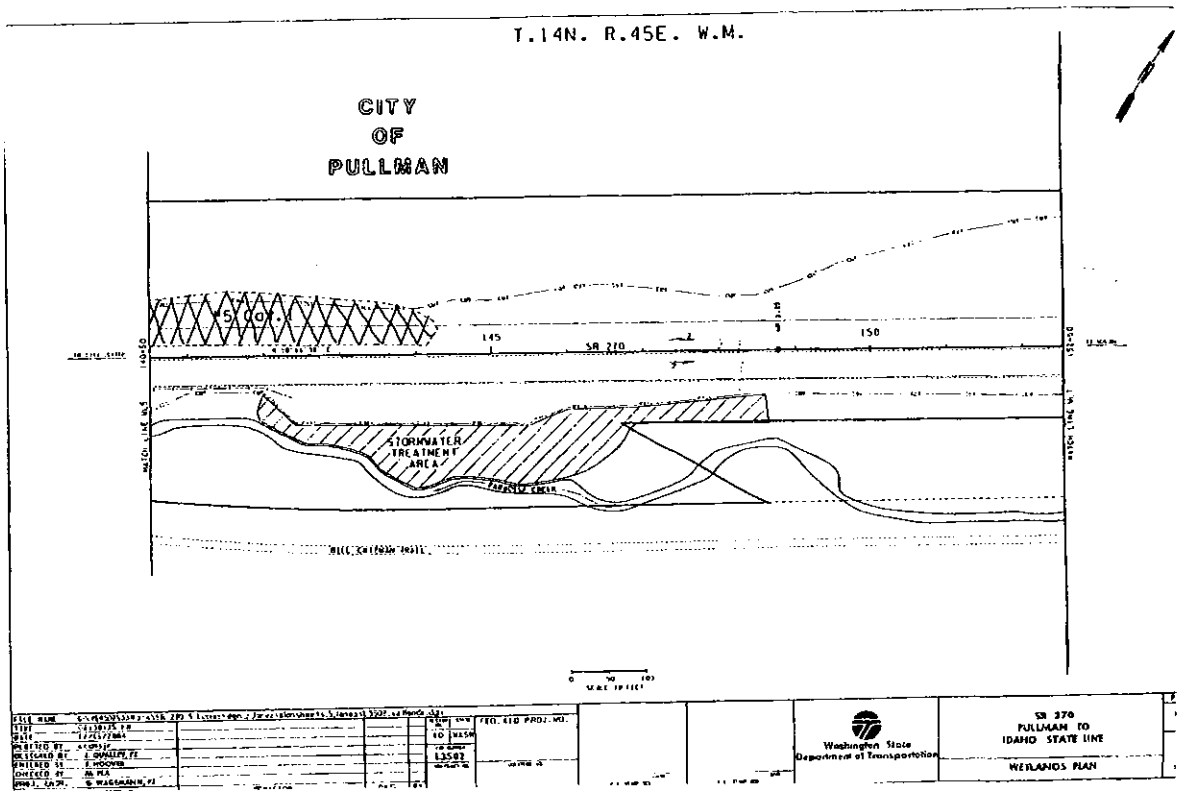
WA State Department of Transportation
SR 270, Pullman (WA) to Moscow (ID0
200500225
Figure 31 of 42 Date: 5/26/05

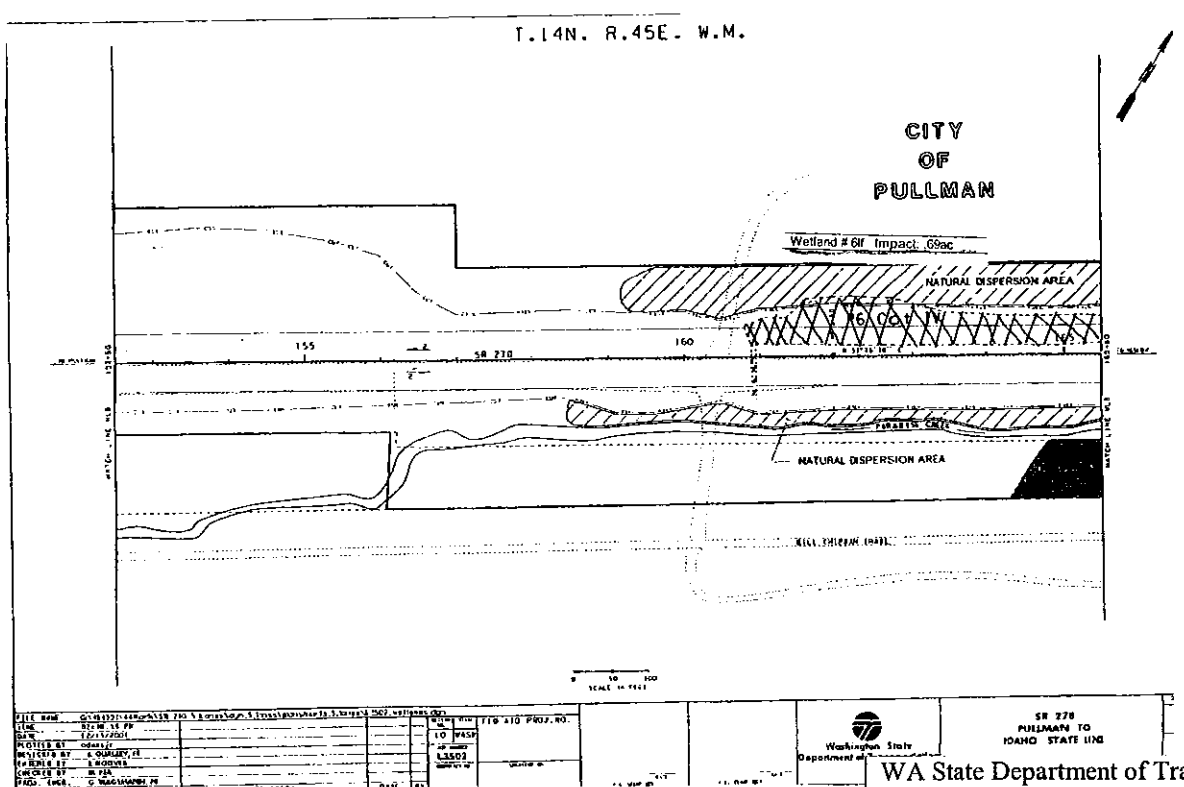
Alignment of SR270 from Pullman to Moscow
Showing location of individual wetland impacts



WA State Department of Transportation
SR 270, Pullman (WA) to Moscow (ID0
200500225
Figure 30 of 42 Date: 5/26/05

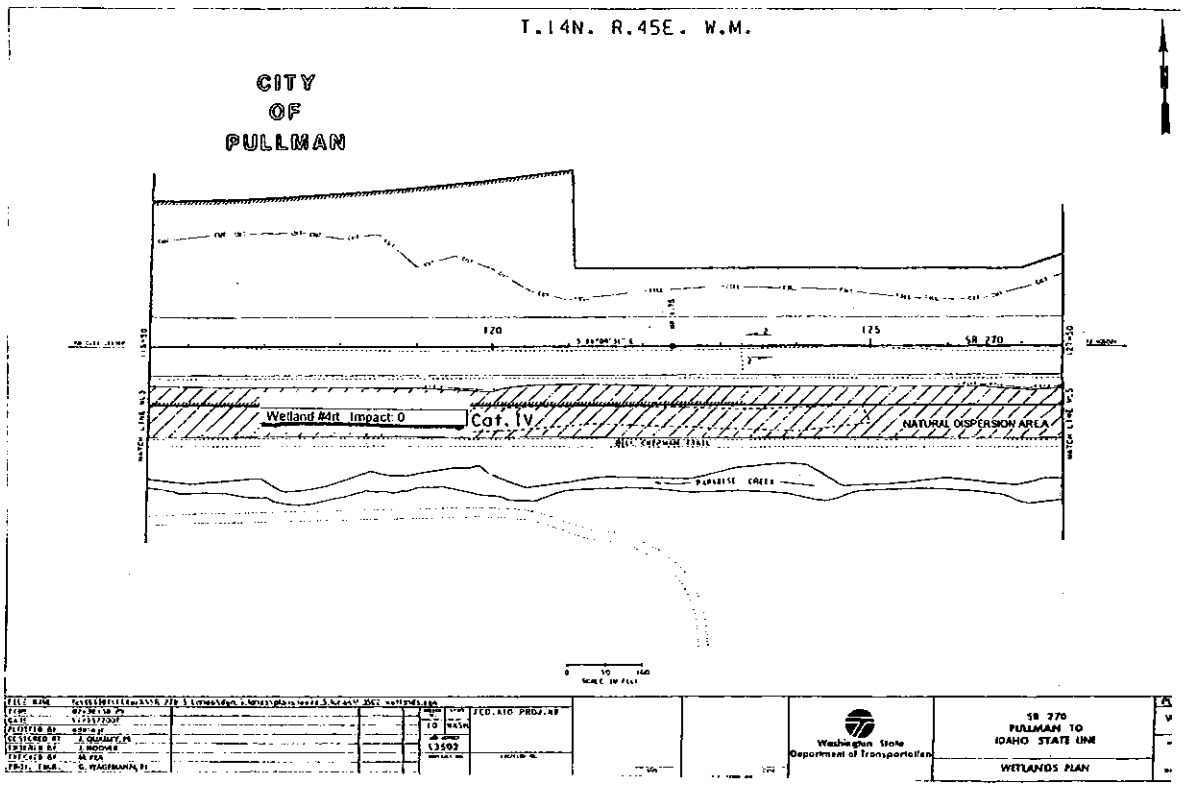
Alignment of SR270 from Pullman to Moscow
Showing location of individual wetland impacts

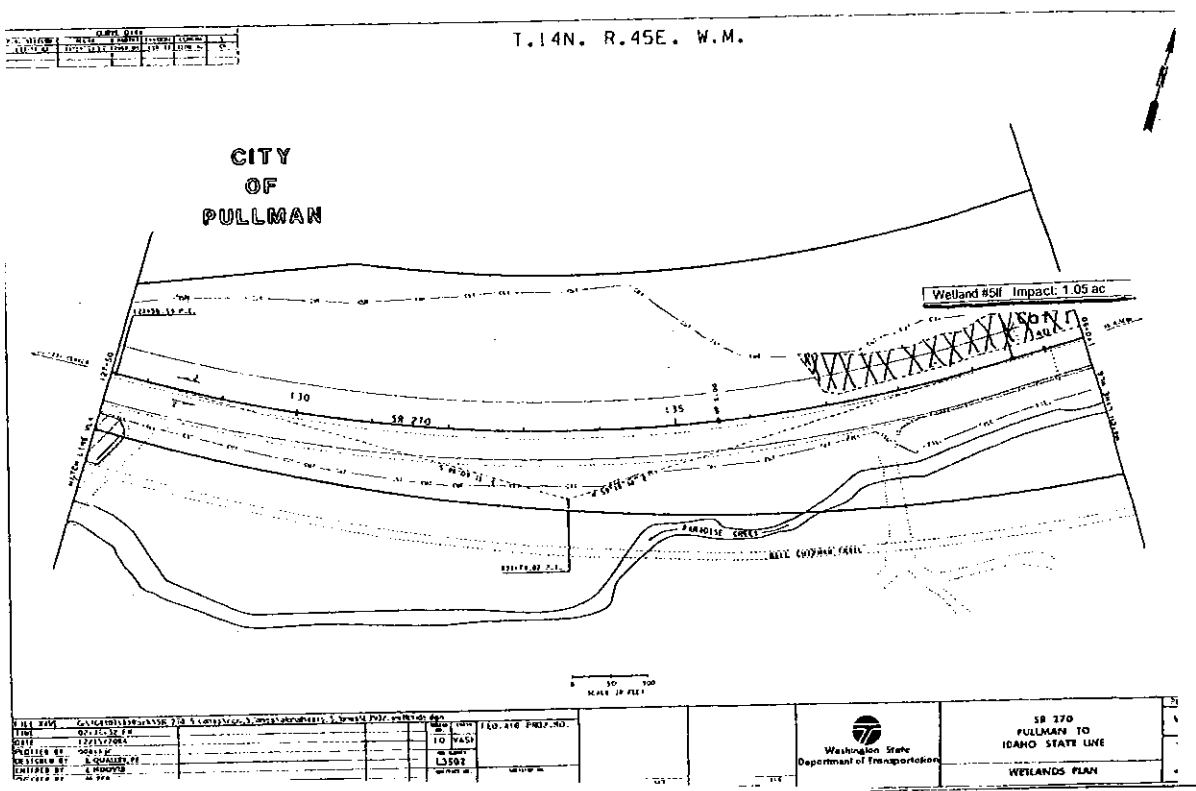




WA State Department of Transportation
SR 270, Pullman (WA) to Moscow (ID0
200500225
Figure 31 of 42 Date: 5/26/05

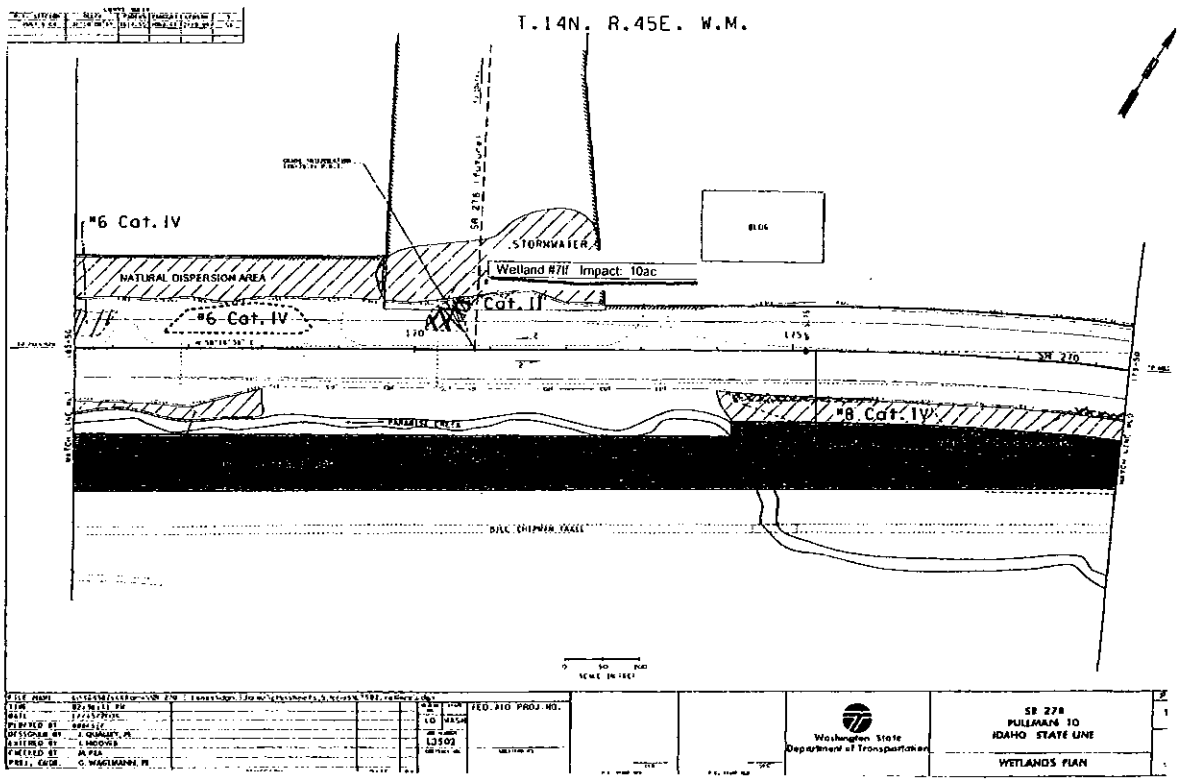
Alignment of SR270 from Pullman to Moscow
Showing location of individual wetland impacts

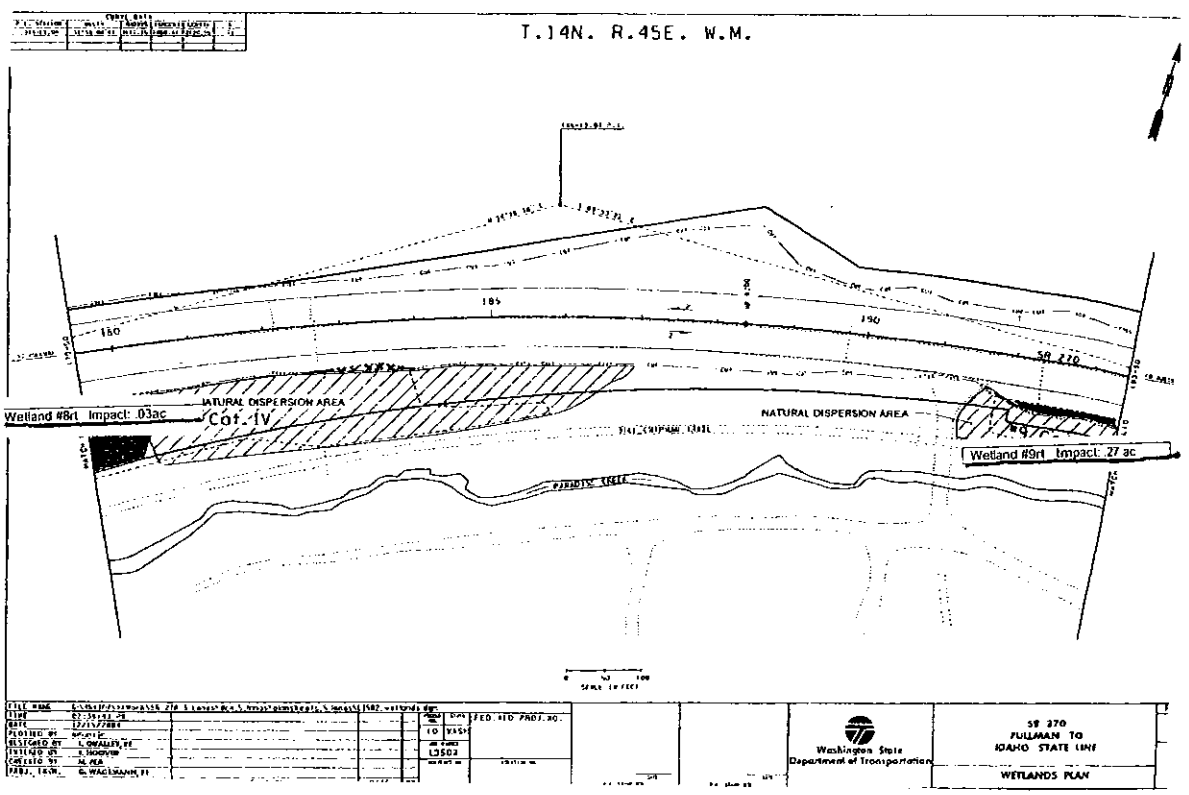




WA State Department of Transportation
SR 270, Pullman (WA) to Moscow (ID0
200500225
Figure 32 of 42 Date: 5/26/05

Alignment of SR270 from Pullman to Moscow
Showing location of individual wetland impacts





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SR 270, Pullman (WA) to Moscow (ID0
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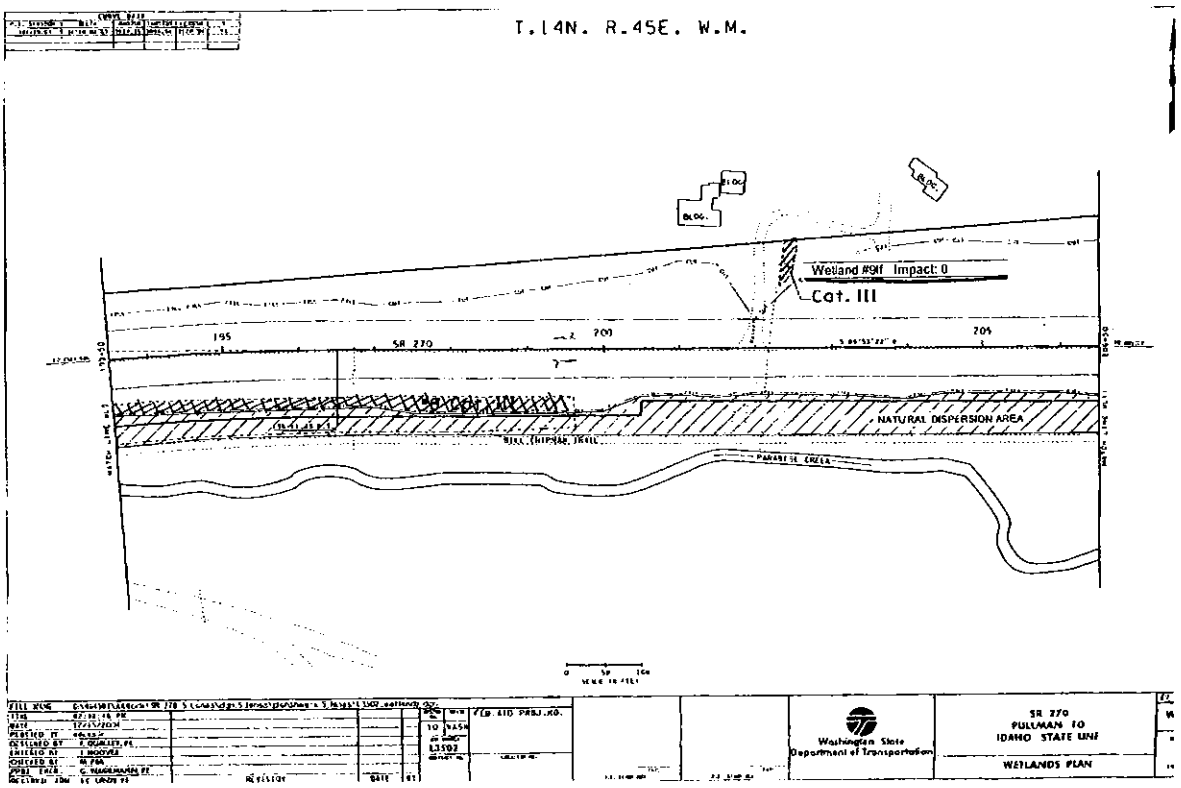
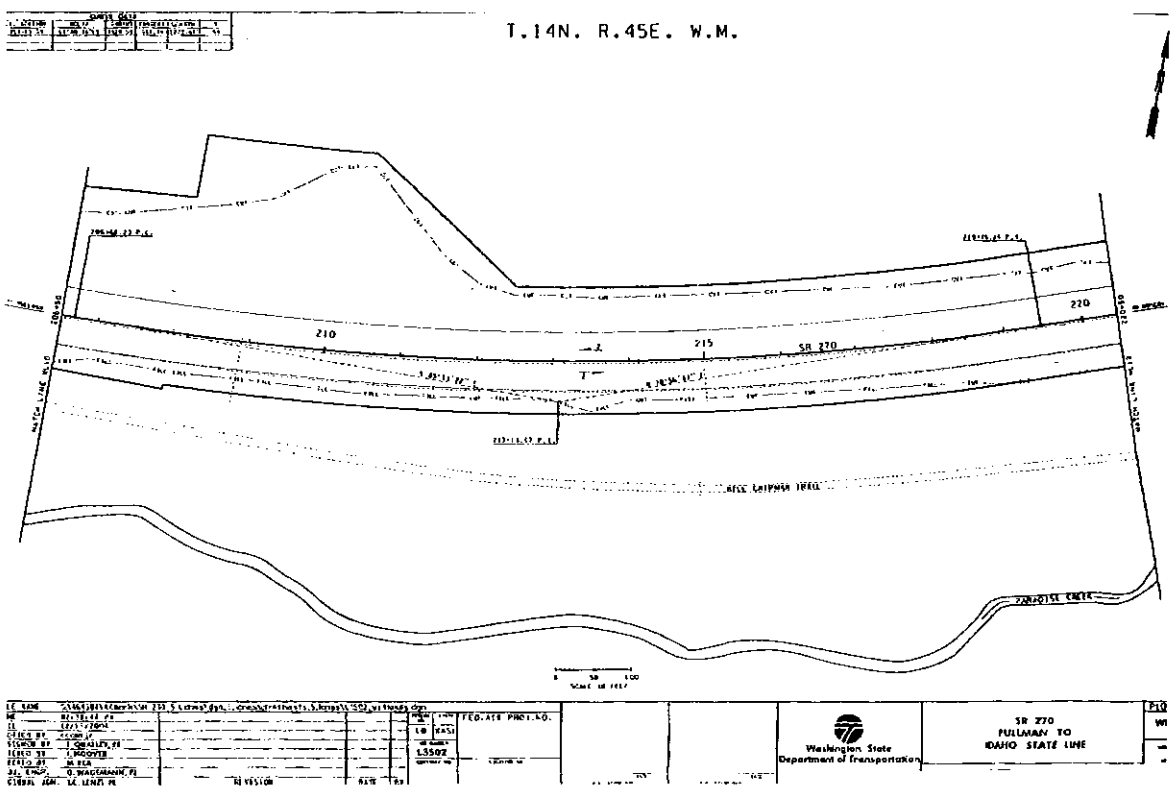
Alignment of SR270 from Pullman to Moscow
Showing location of individual wetland impacts





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SR 270, Pullman (WA) to Moscow (ID0
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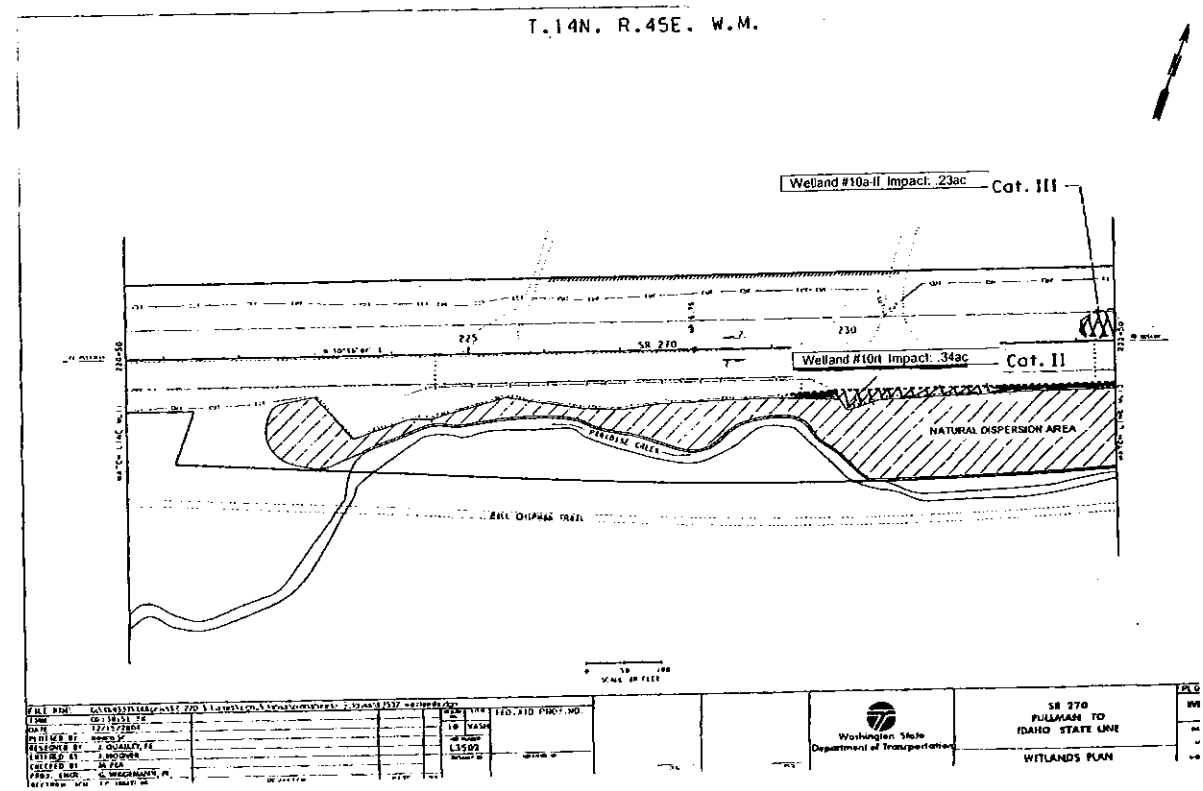
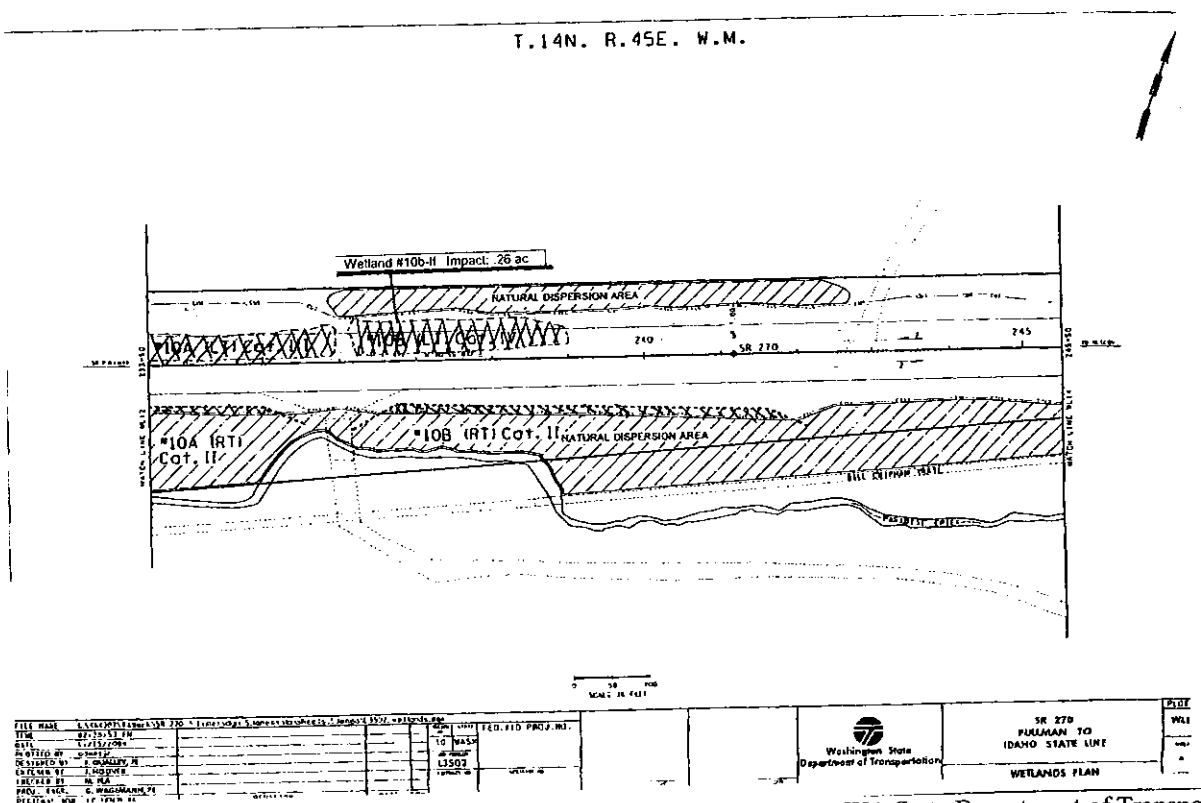
Alignment of SR270 from Pullman to Moscow
Showing location of individual wetland impacts





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SR 270, Pullman (WA) to Moscow (ID0
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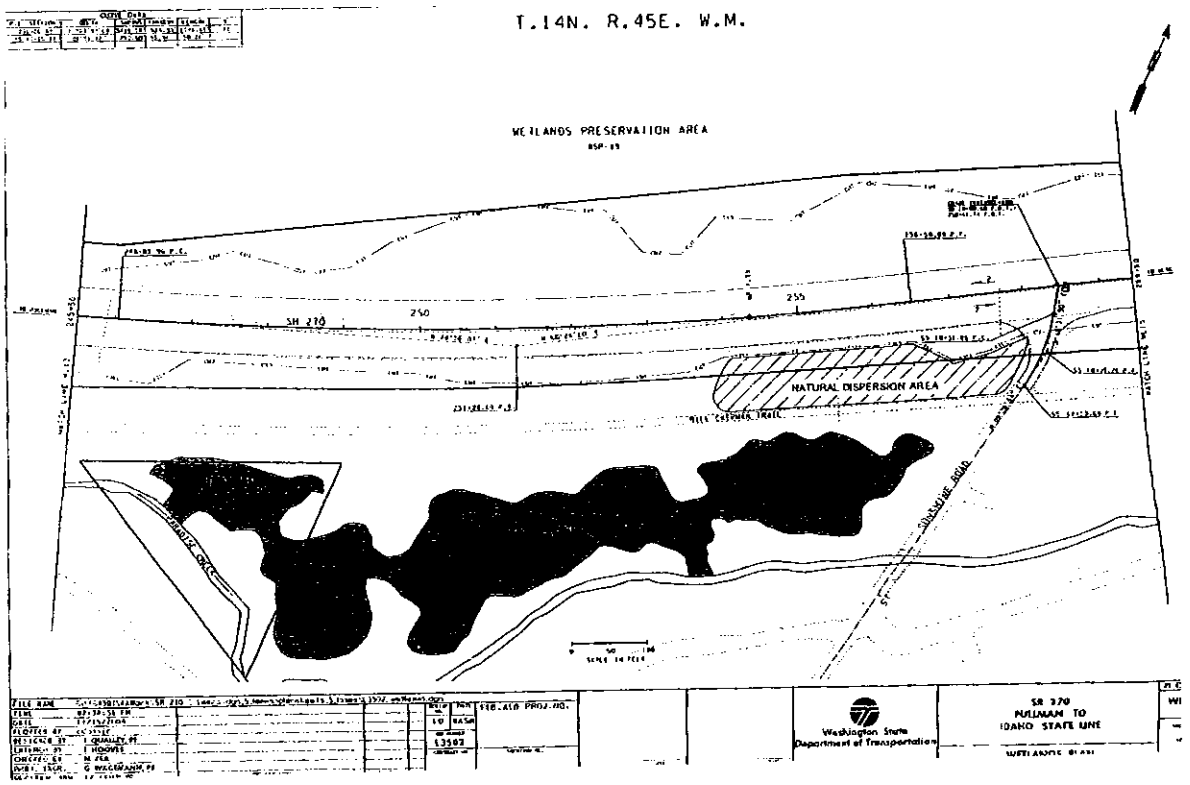
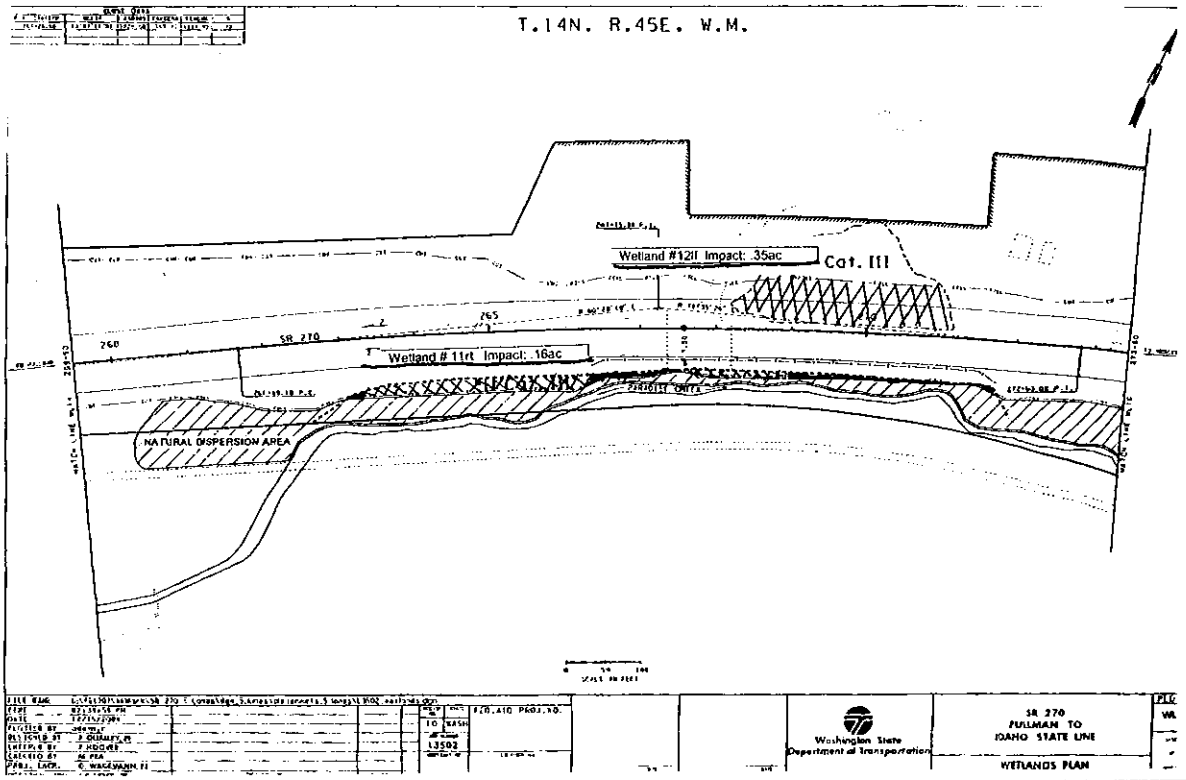
Alignment of SR270 from Pullman to Moscow
Showing location of individual wetland impacts





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SR 270, Pullman (WA) to Moscow (ID0
200500225
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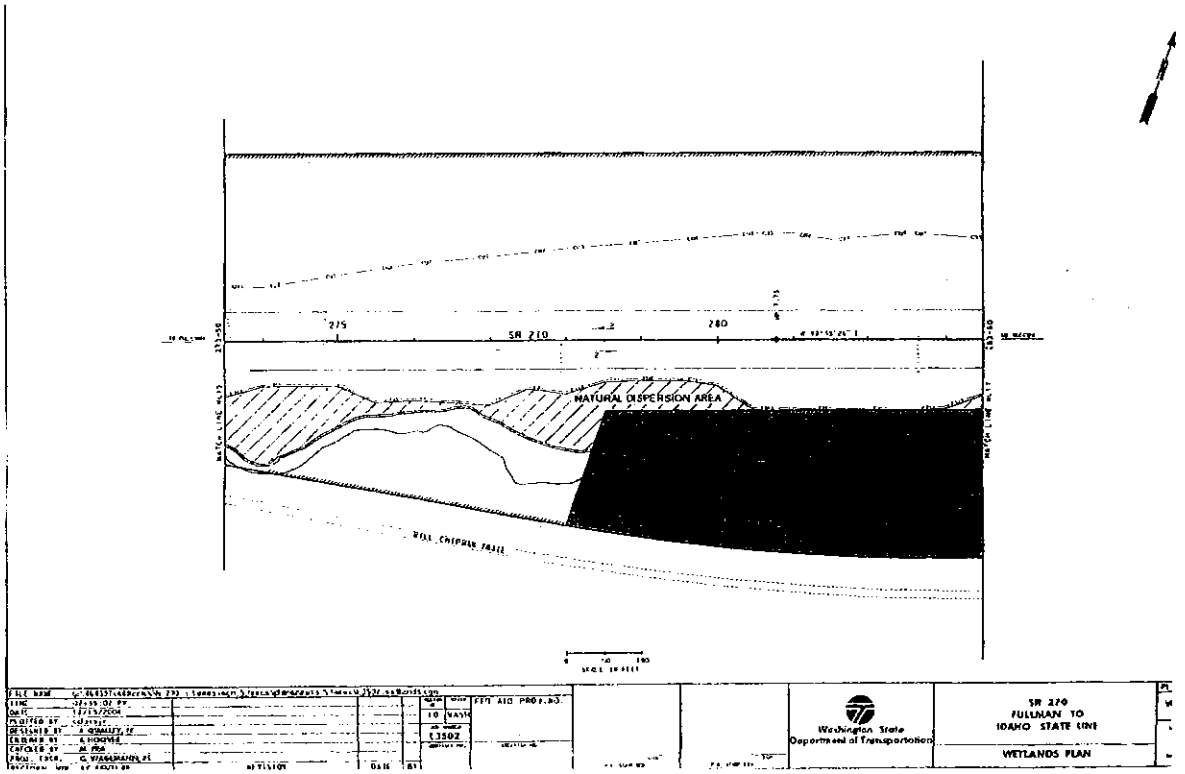
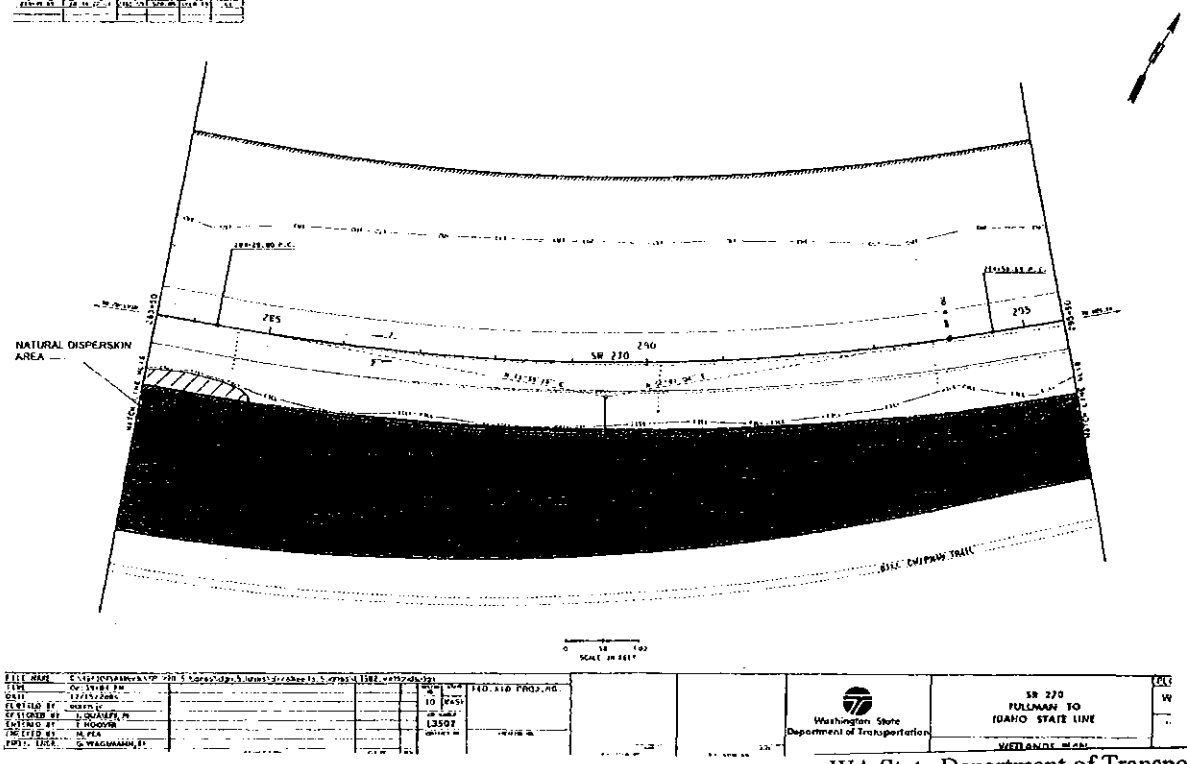
Alignment of SR270 from Pullman to Moscow
Showing location of individual wetland impacts





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SR 270, Pullman (WA) to Moscow (ID0
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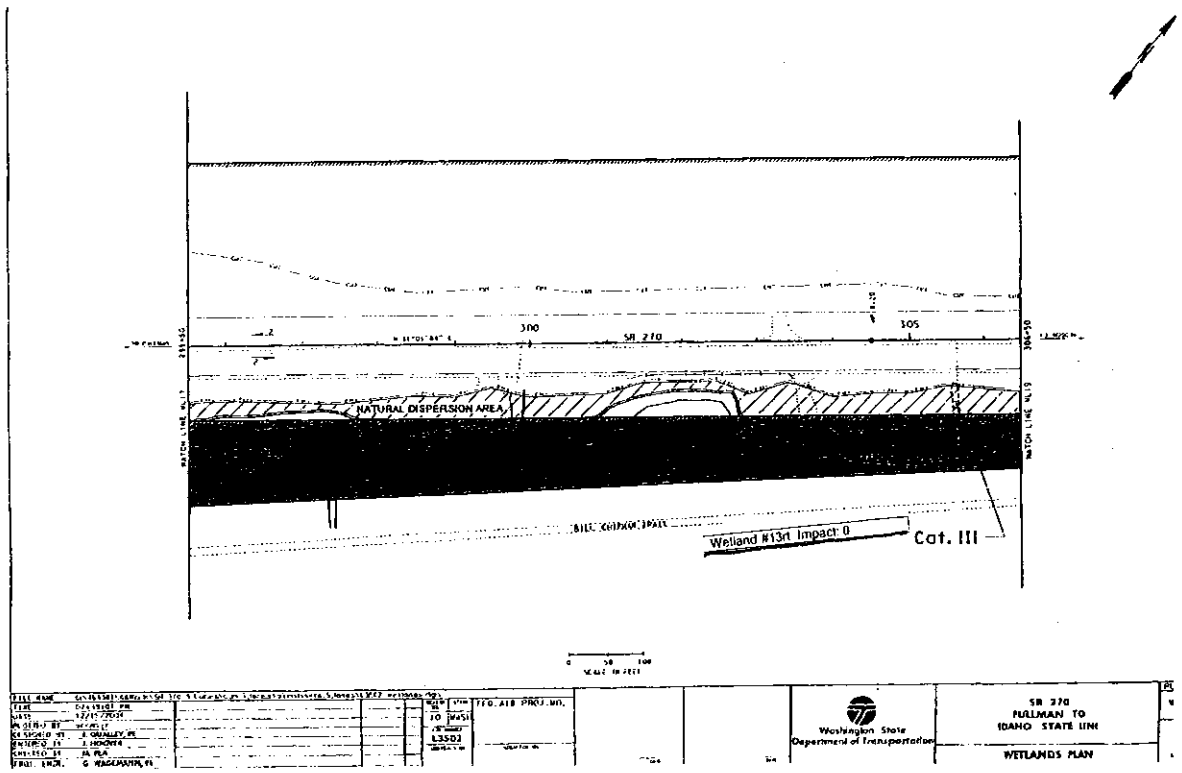
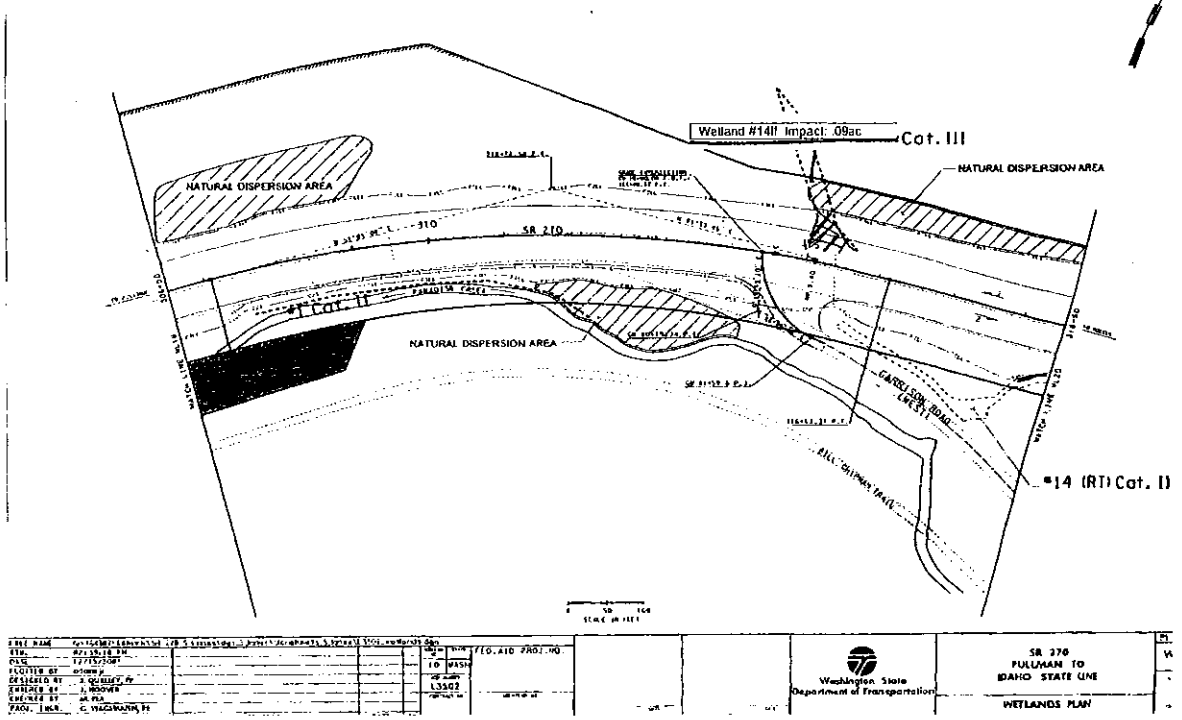
Alignment of SR270 from Pullman to Moscow
Showing location of individual wetland impacts



T.15N. R.46E. W.M.



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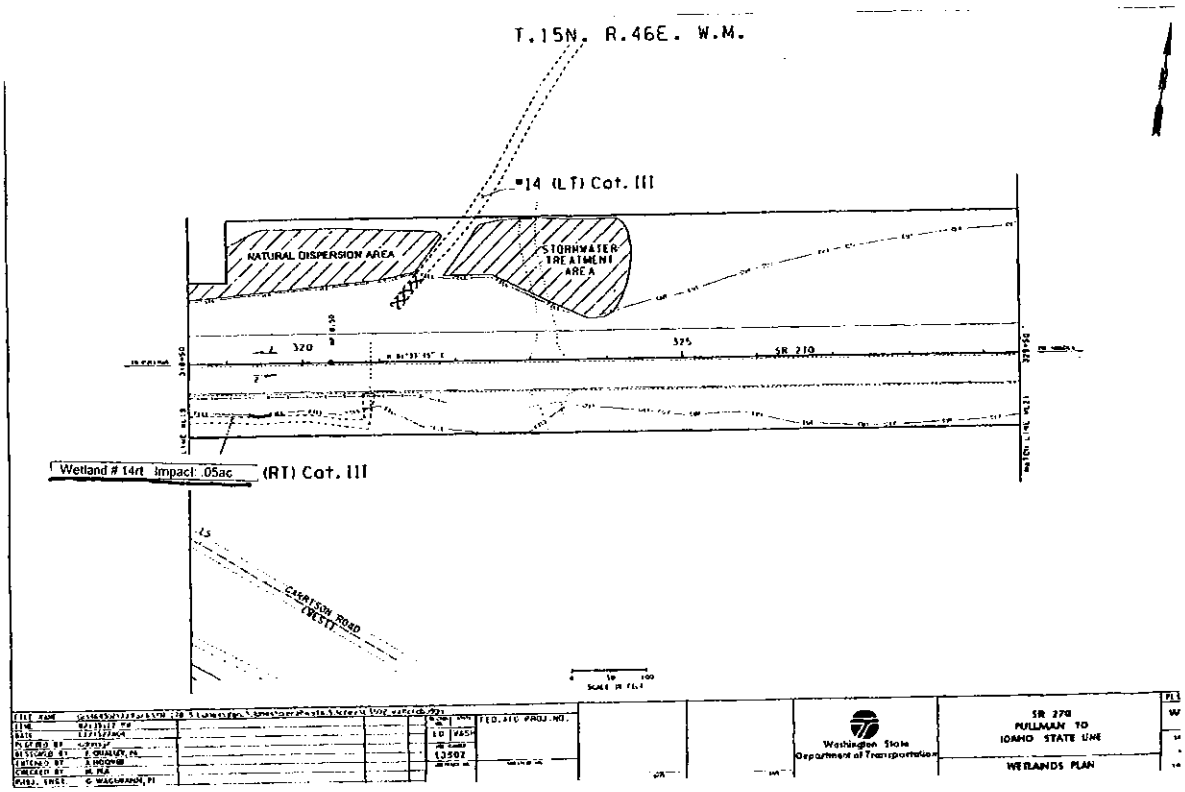
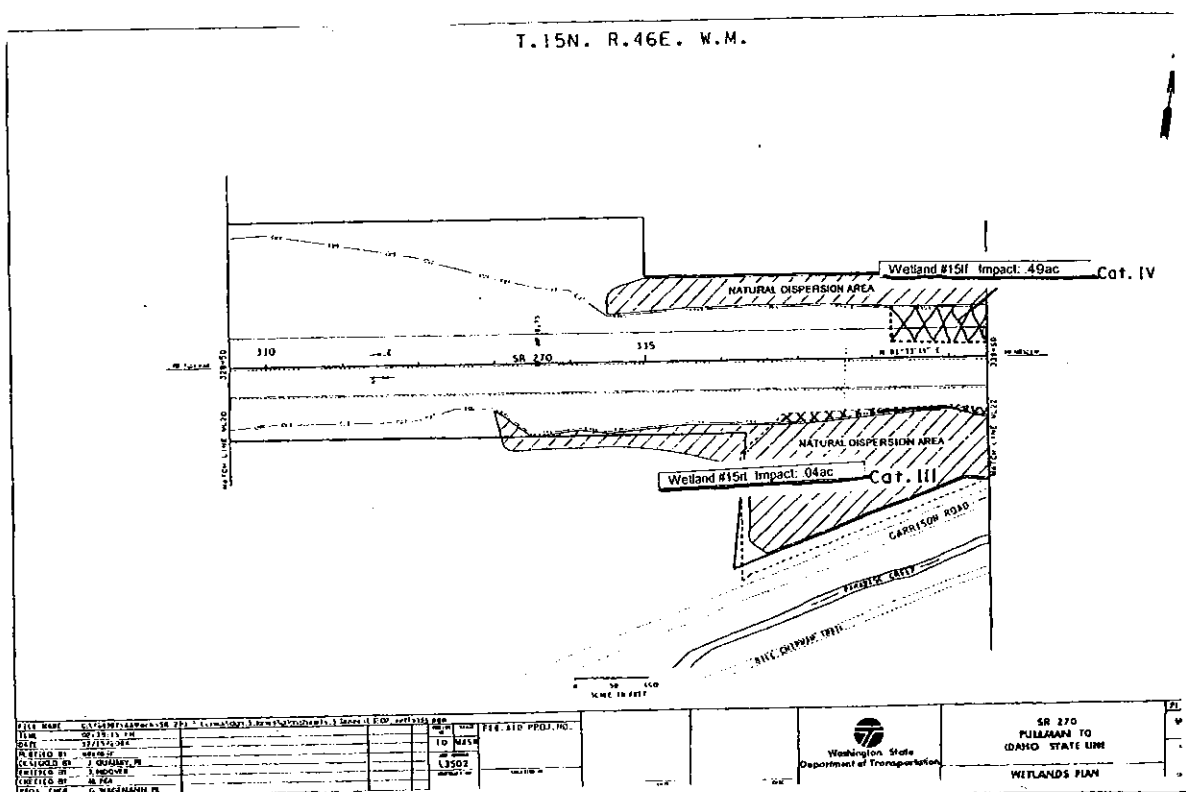
Alignment of SR270 from Pullman to Moscow
Showing location of individual wetland impacts





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SR 270, Pullman (WA) to Moscow (ID0
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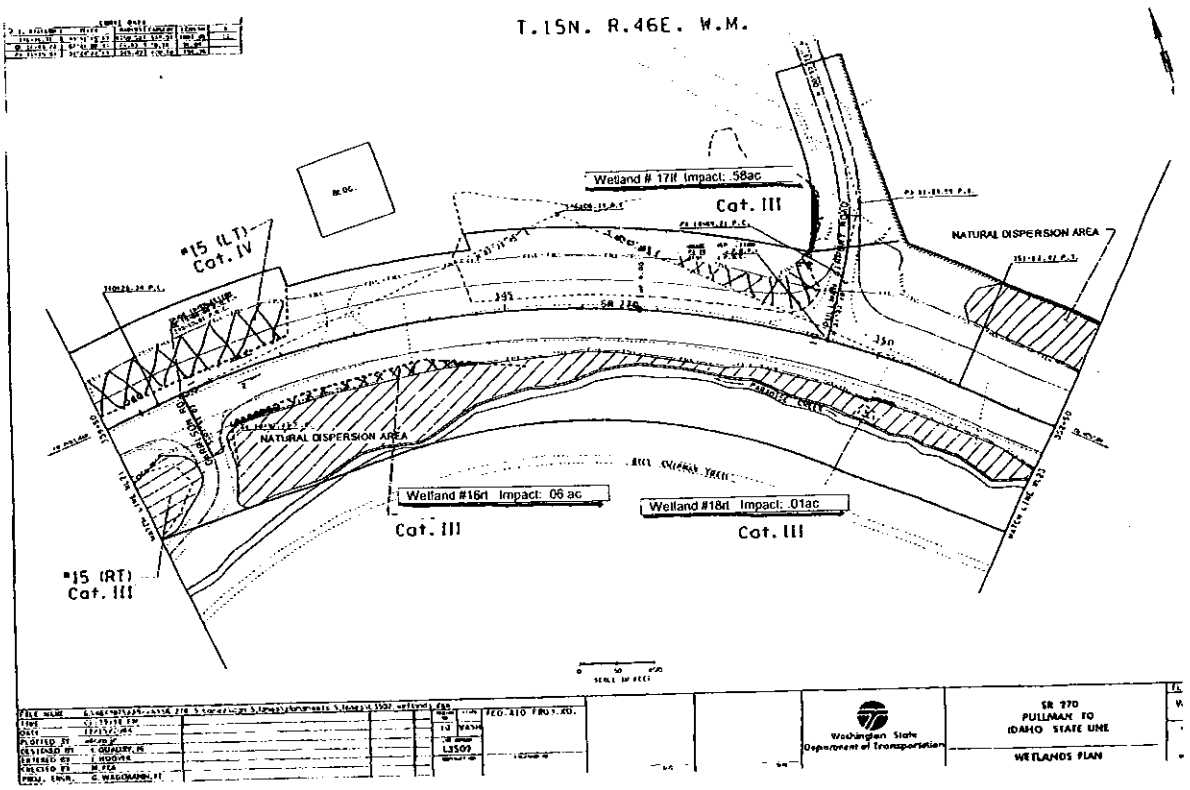
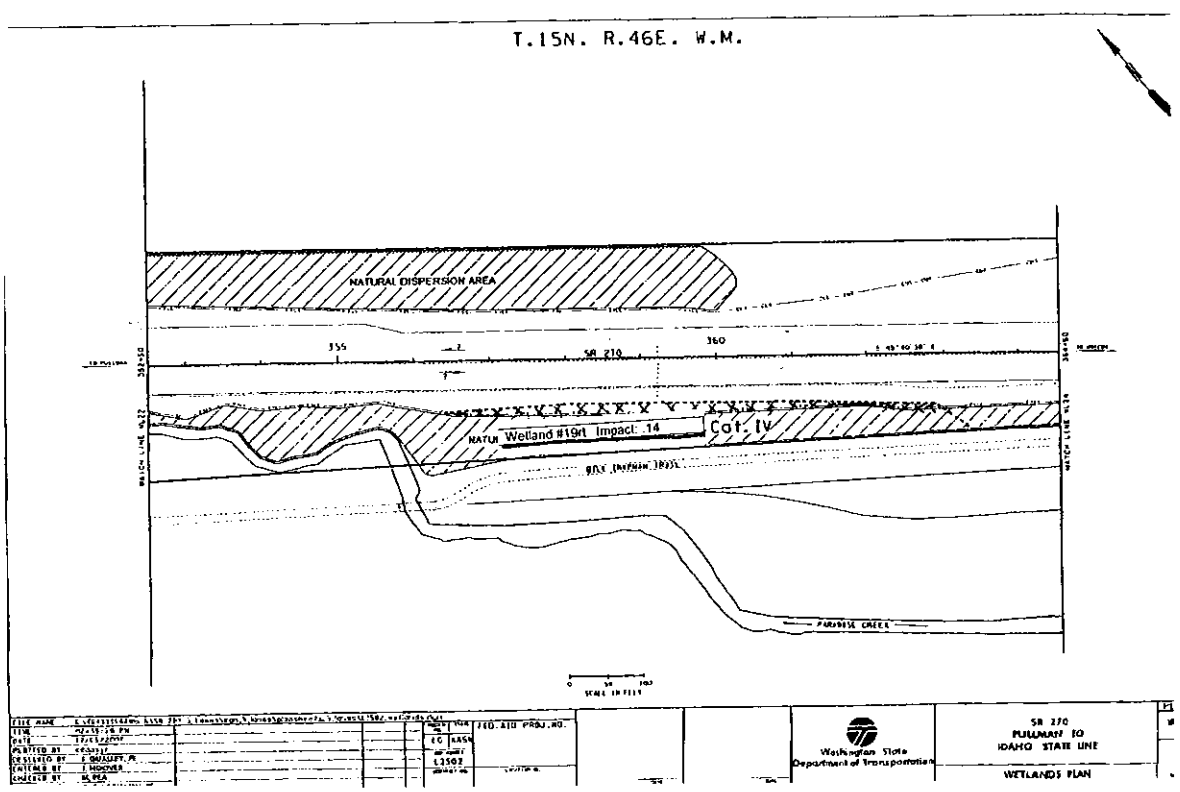
Alignment of SR270 from Pullman to Moscow
Showing location of individual wetland impacts





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SR 270, Pullman (WA) to Moscow (ID0
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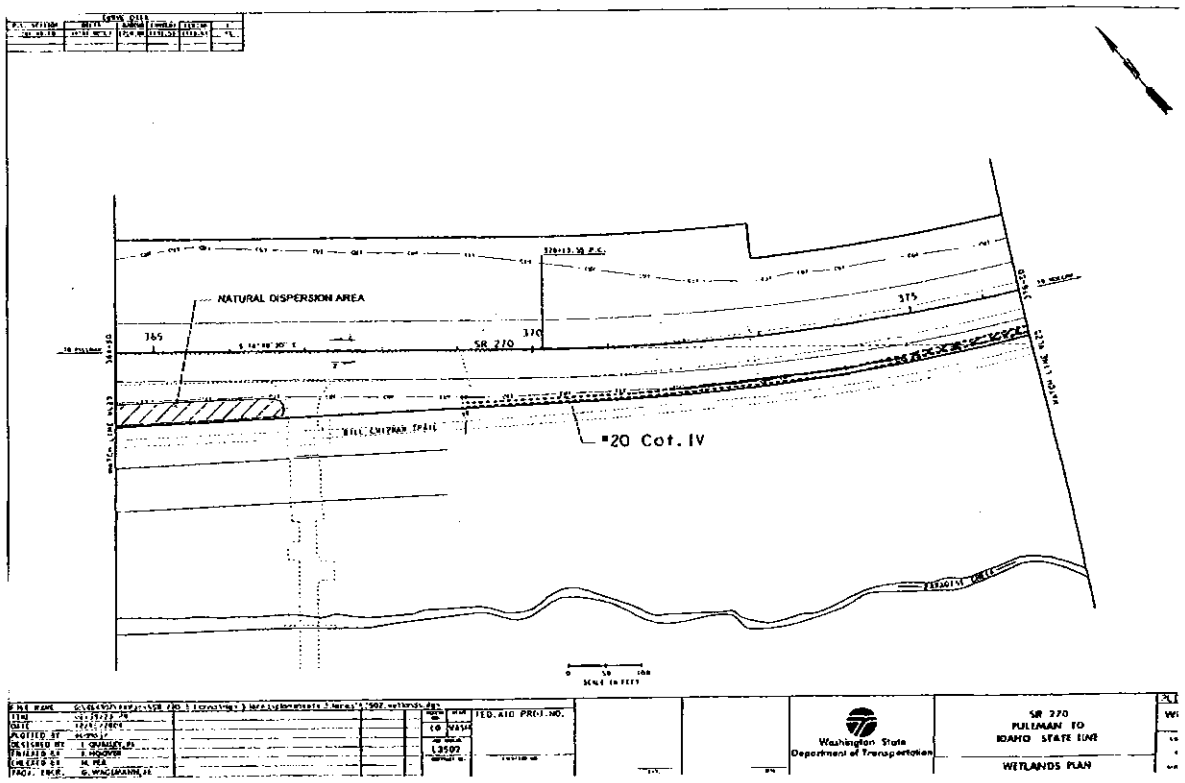
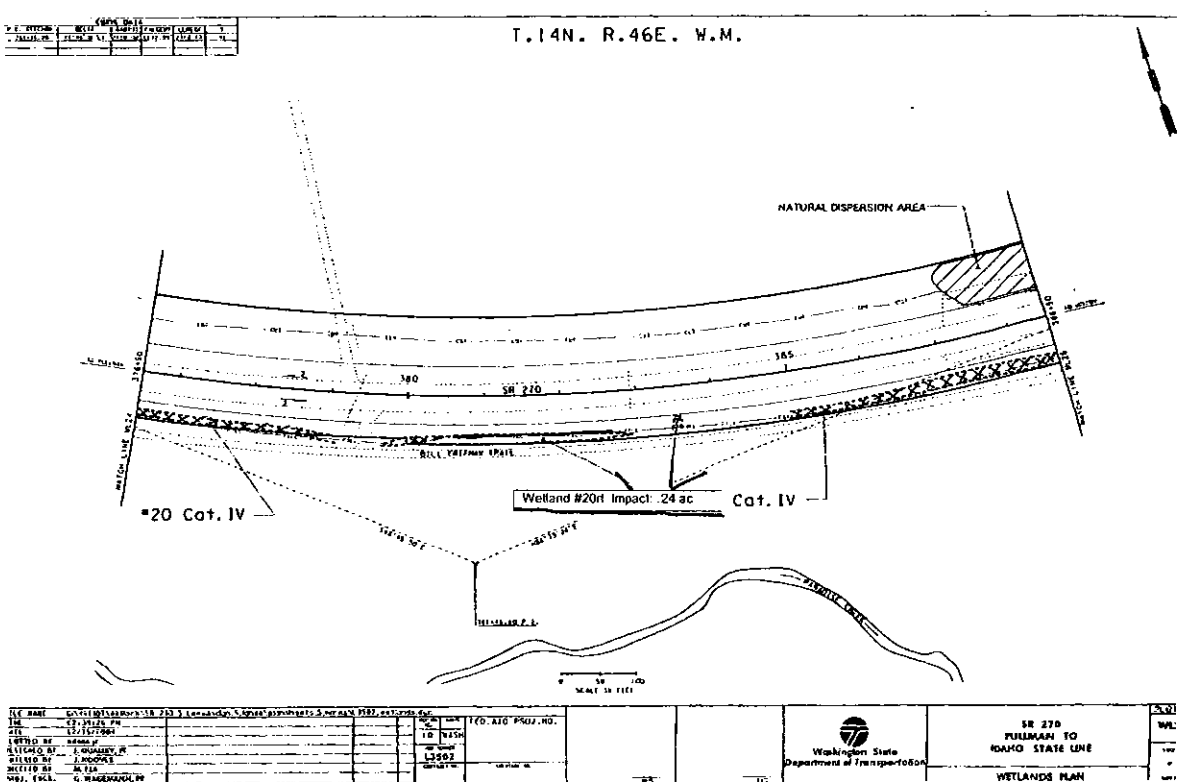
Alignment of SR270 from Pullman to Moscow
Showing location of individual wetland impacts





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SR 270, Pullman (WA) to Moscow (ID0
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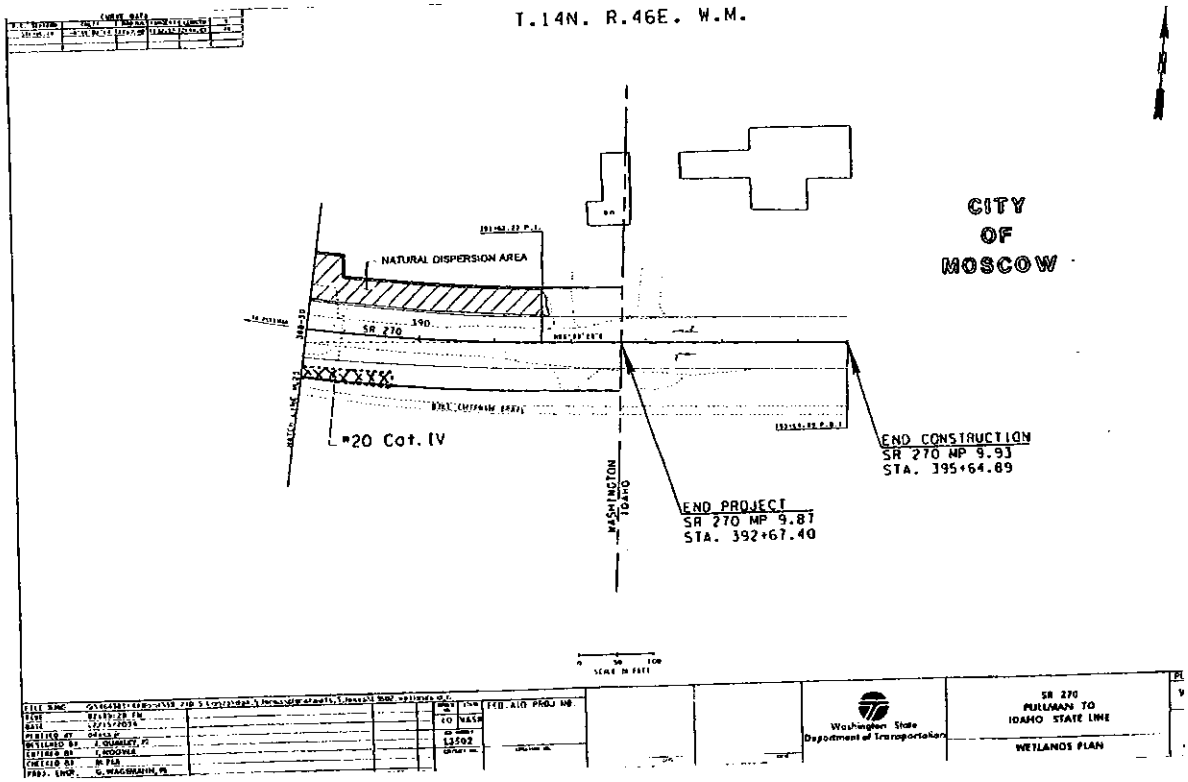
Alignment of SR270 from Pullman to Moscow
Showing location of individual wetland impacts



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SR 270, Pullman (WA) to Moscow (ID0
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STATE OF WASHINGTON
DEPARTMENT OF ECOLOGY
P.O. Box 47600 • Olympia, Washington 98504-7600
(360) 407-6000 • TDD Only (Hearing Impaired) (360) 407-6006

STATE OF WASHINGTON
DEPARTMENT OF ECOLOGY

Notice of Application for
Water Quality Certification

Date: June 14, 2005

Notice is hereby given that a request has been filed with the Department of Ecology, pursuant to the requirements of Section 401 of the federal Clean Water Act of 1977 (PL 95-217), to certify that the project described in the U.S. Army Corps of Engineers Public Notice No. 200500225 will comply with the Sections 301, 302, 303, 306, and 307 of the Act, and with applicable provisions of State and Federal water pollution control laws.

Any person desiring to present views on the project pertaining to compliance with water pollution control laws may do so by providing written comments within 30 days of the above publication date to:

Federal Permit Coordinator
Department of Ecology
SEA Program
Post Office Box 47600
Olympia, Washington 98504-7600