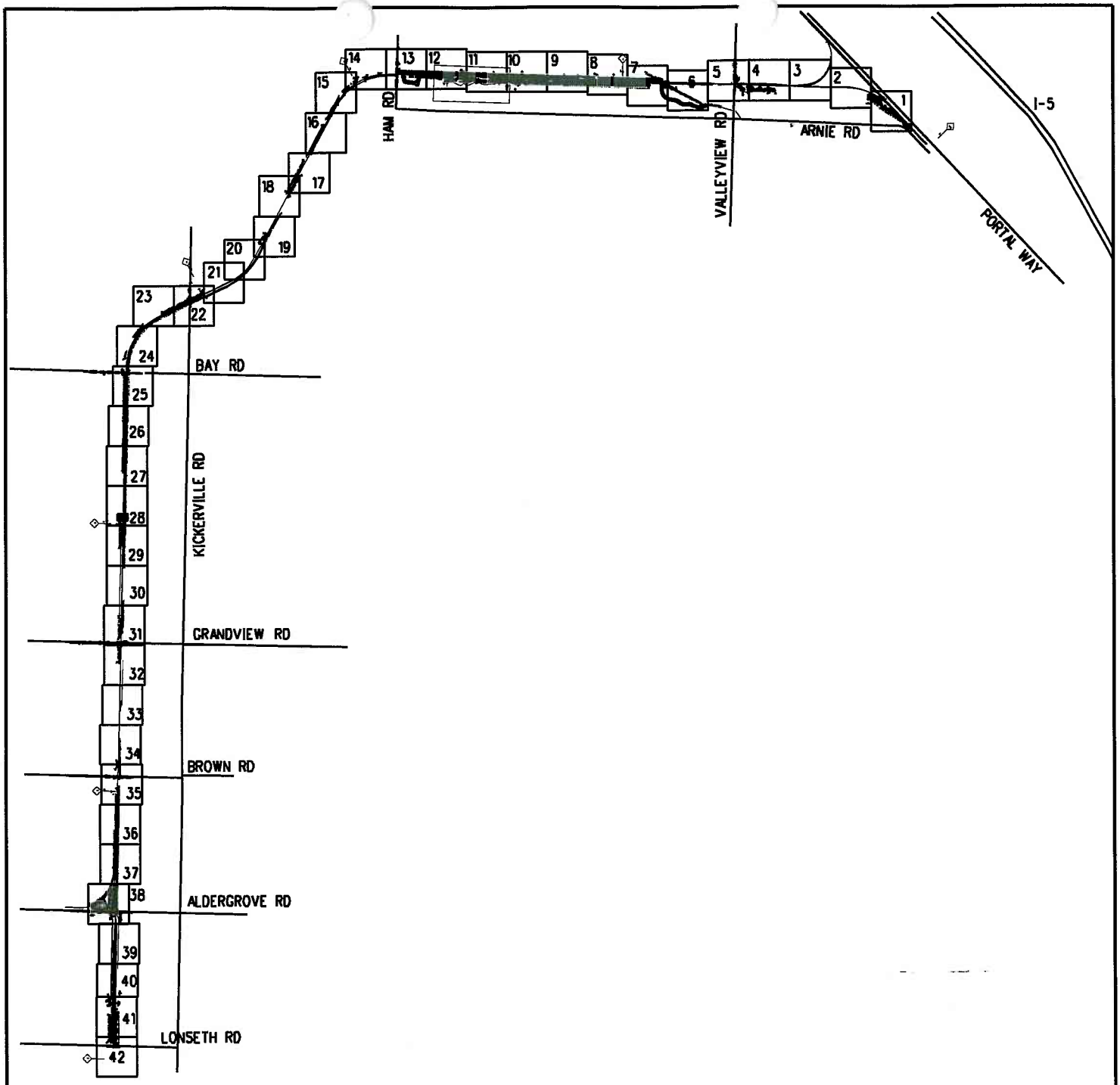
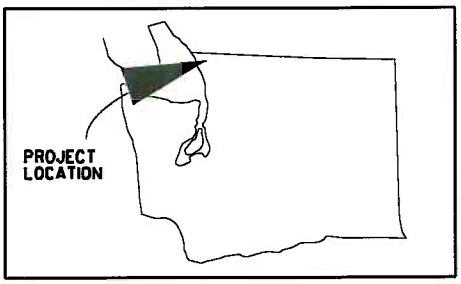




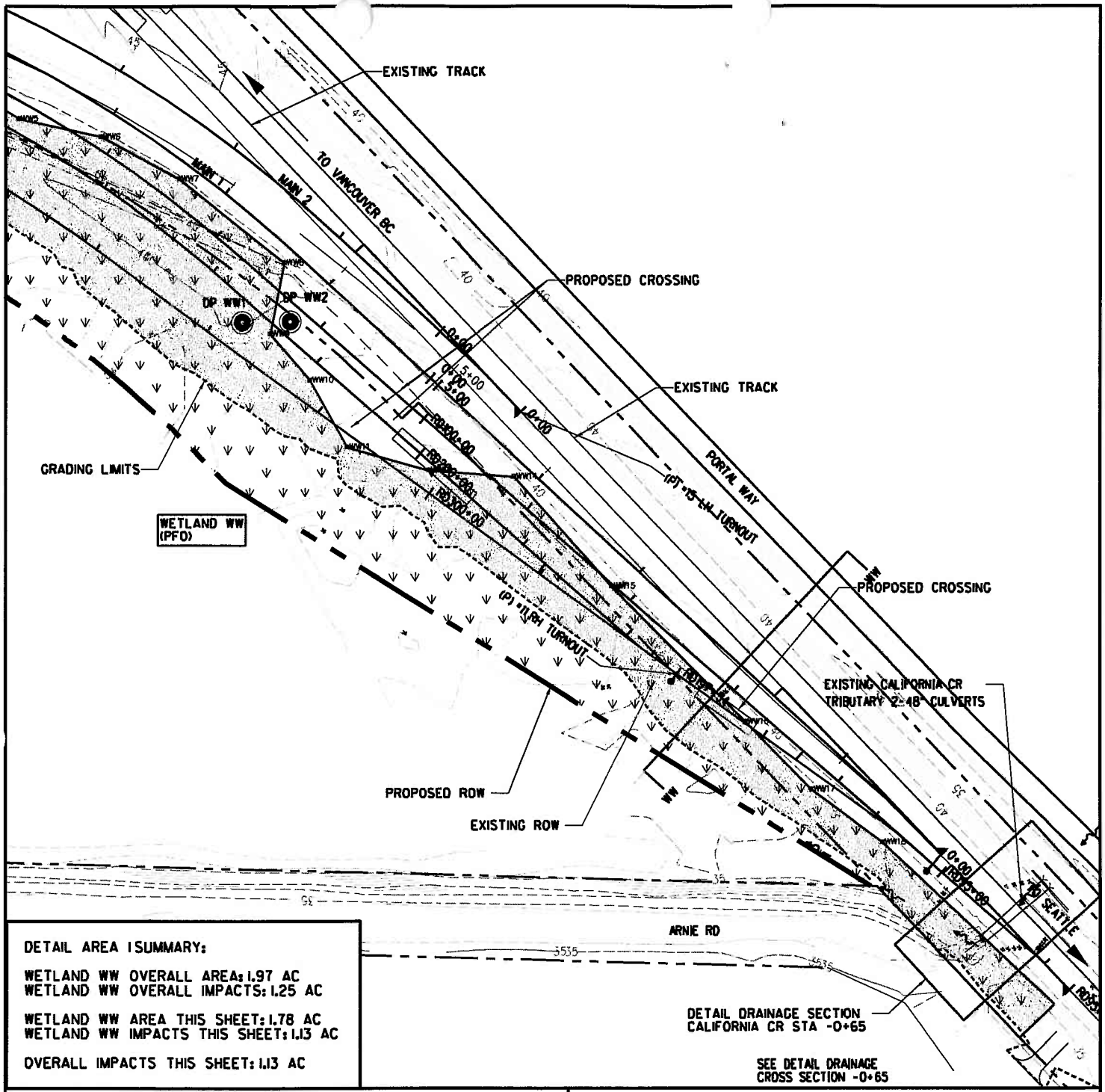
N

NO SCALE

OVERALL SITE PLAN - PLAN SHEET LAYOUT LOCATIONS

USACE REF NO.:
PROJECT: CUSTER SPUR IMPROVEMENTS (INTALCO WYE TO ELLIOTT YARD CAPACITY EXPANSION PROJECT)
APPLICANT: BNSF RAILWAY CO.
WATERWAY: CALIFORNIA CREEK; TERRELL CREEK
BNSF LOCATION: NW DIVISION, CHERRY POINT SUBDIVISION, LS 418
LEGAL: IN PORTIONS OF SECTIONS 26, 27, 28, 32, 33, T40N, R1E, AND SECTIONS 5, 8, 17, T39N, R1E
COUNTY: WHATCOM STATE: WASHINGTON
LAT/LONG START: N48.9218°; W122.6478°
LAT/LONG END: N48.8702°; W122.7094°
DATE: 08\12\2011 SHEET OF

BASE FILE FROM HAHS. ...SSIONAL SERVICES INC. Date: 08\12\2011



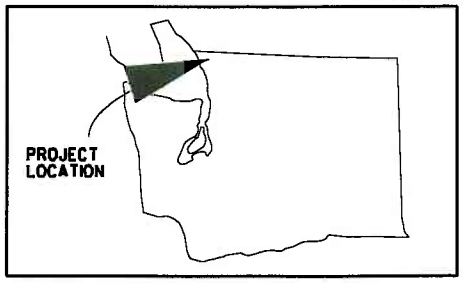
DETAIL AREA 1 SUMMARY:

WETLAND WW OVERALL AREA: 1.97 AC
WETLAND WW OVERALL IMPACTS: 1.25 AC

WETLAND WW AREA THIS SHEET: 1.78 AC
WETLAND WW IMPACTS THIS SHEET: 1.13 AC

OVERALL IMPACTS THIS SHEET: 1.13 AC

DATA PLOT
WETLAND BOUNDARY
GRADING LIMIT BOUNDARY
ROW BOUNDARY
WETLAND EXTENDS BEYOND STUDY AREA
FLOW DIRECTION
WETLAND
WETLAND IMPACT

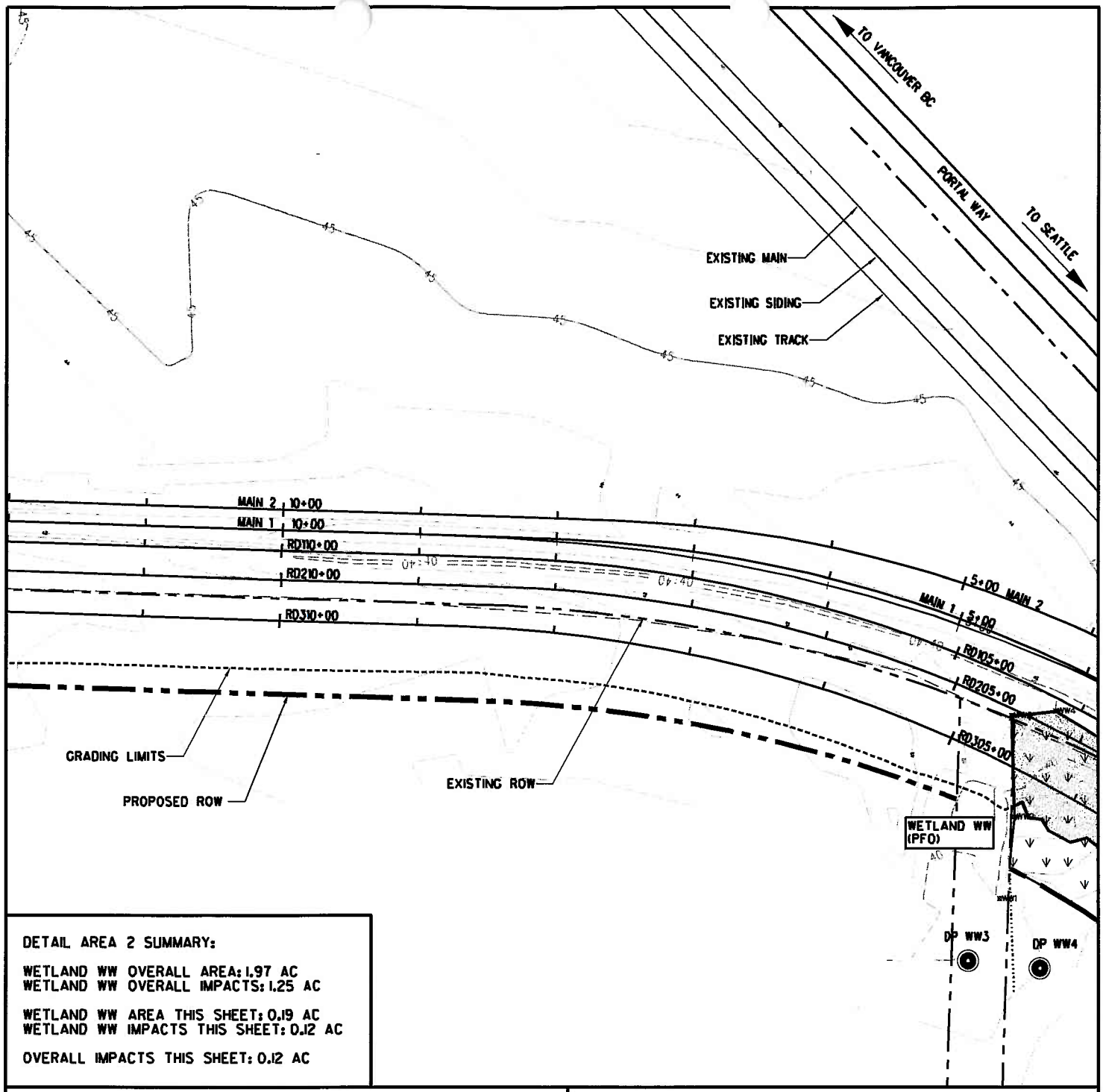


N

0 25 50 100
SCALE IN FEET

PROPOSED WORK IMPACTS
DETAIL AREA 1

USACE REF NO.:
PROJECT: CUSTER SPUR IMPROVEMENTS (INTALCO WYE TO ELLIOTT YARD CAPACITY EXPANSION PROJECT)
APPLICANT: BNSF RAILWAY CO.
WATERWAY: CALIFORNIA CREEK; TERRELL CREEK
BNSF LOCATION: NW DIVISION, CHERRY POINT SUBDIVISION, LS 418
LEGAL: IN PORTIONS OF SECTIONS 26, 27, 28, 32, 33, T40N, R1E, AND SECTIONS 5, 8, 17, T39N, R1E
COUNTY: WHATCOM STATE: WASHINGTON
LAT/LONG START: N48.9218°; W122.6478°
LAT/LONG END: N48.8702°; W122.7094°
DATE: 08\12\2011 SHEET OF



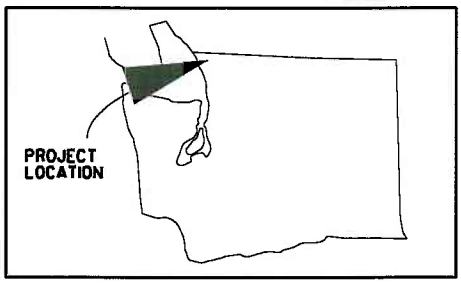
DETAIL AREA 2 SUMMARY:

WETLAND WW OVERALL AREA: 1.97 AC
WETLAND WW OVERALL IMPACTS: 1.25 AC

WETLAND WW AREA THIS SHEET: 0.19 AC
WETLAND WW IMPACTS THIS SHEET: 0.12 AC

OVERALL IMPACTS THIS SHEET: 0.12 AC

DATA PLOT
WETLAND BOUNDARY
GRADING LIMIT BOUNDARY
ROW BOUNDARY
WETLAND EXTENDS BEYOND STUDY AREA
FLOW DIRECTION
WETLAND
WETLAND IMPACT

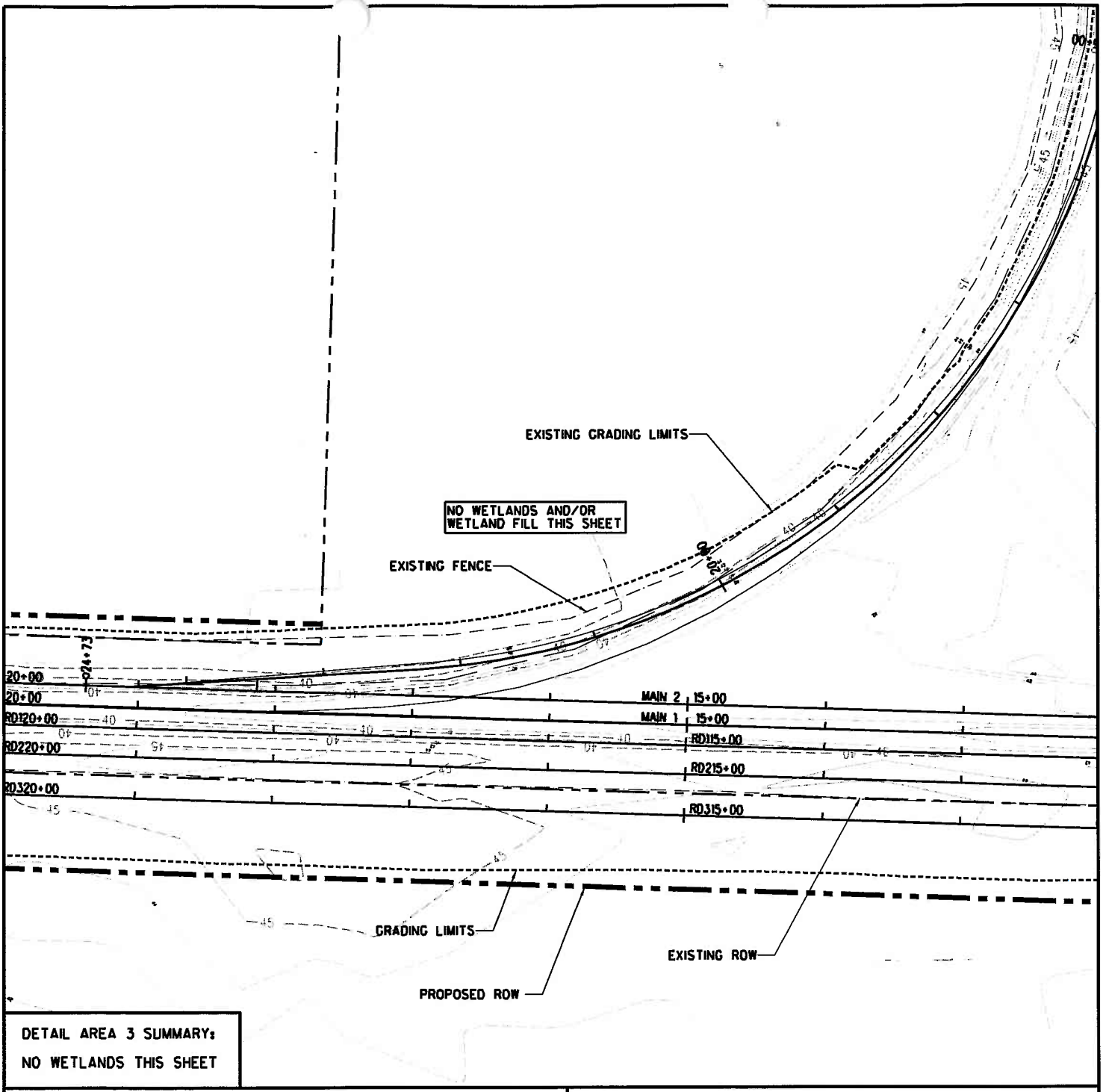


N

0 25 50 100
SCALE IN FEET

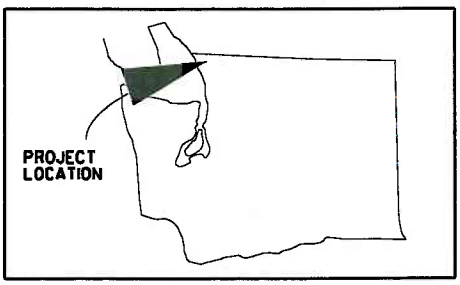
PROPOSED WORK IMPACTS
DETAIL AREA 2

USACE REF NO.:
PROJECT: CUSTER SPUR IMPROVEMENTS (INTALCO WYE TO ELLIOTT YARD CAPACITY EXPANSION PROJECT)
APPLICANT: BNSF RAILWAY CO.
WATERWAY: CALIFORNIA CREEK; TERRELL CREEK
BNSF LOCATION: NW DIVISION, CHERRY POINT SUBDIVISION, LS 418
LEGAL: IN PORTIONS OF SECTIONS 26, 27, 28, 32, 33, T40N, R1E, AND SECTIONS 5, 8, 17, T39N, R1E
COUNTY: WHATCOM STATE: WASHINGTON
LAT/LONG START: N48.9218°; W122.6478°
LAT/LONG END: N48.8702°; W122.7094°
DATE: 08\12\2011 SHEET OF



DETAIL AREA 3 SUMMARY:
NO WETLANDS THIS SHEET

DATA PLOT
WETLAND BOUNDARY
GRADING LIMIT BOUNDARY
ROW BOUNDARY
WETLAND EXTENDS BEYOND STUDY AREA
FLOW DIRECTION
WETLAND
WETLAND IMPACT



N

0 25 50 100
SCALE IN FEET

PROPOSED WORK IMPACTS
DETAIL AREA 3

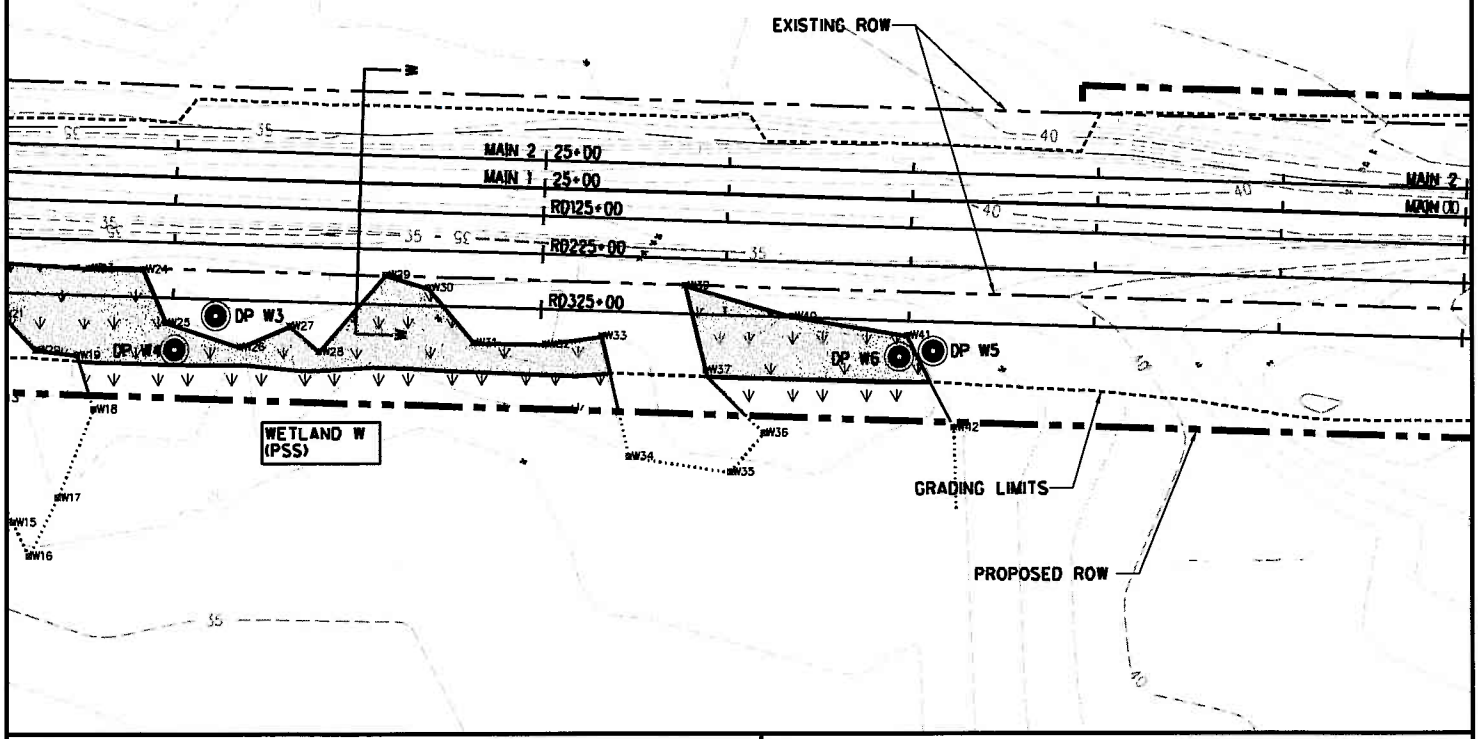
USACE REF NO.:
PROJECT: CUSTER SPUR IMPROVEMENTS (INTALCO WYE TO ELLIOTT YARD CAPACITY EXPANSION PROJECT)
APPLICANT: BNSF RAILWAY CO.
WATERWAY: CALIFORNIA CREEK; TERRELL CREEK
BNSF LOCATION: NW DIVISION, CHERRY POINT SUBDIVISION, LS 418
LEGAL: IN PORTIONS OF SECTIONS 26, 27, 28, 32, 33, T40N, R1E, AND SECTIONS 5, 8, 17, T39N, R1E
COUNTY: WHATCOM STATE: WASHINGTON
LAT/LONG START: N48.9218°; W122.6478°
LAT/LONG END: N48.8702°; W122.7094°
DATE: 08\12\2011 SHEET OF

DETAIL AREA 4 SUMMARY:

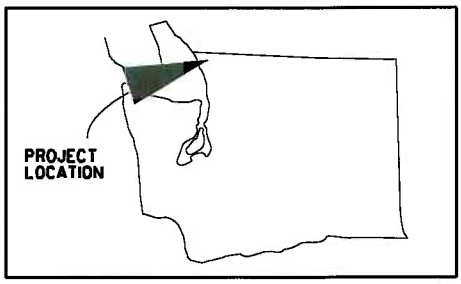
WETLAND W OVERALL AREA: 0.60 AC
WETLAND W OVERALL IMPACTS: 0.38 AC

WETLAND W AREA THIS SHEET: 0.49 AC
WETLAND W IMPACTS THIS SHEET: 0.31 AC

OVERALL IMPACTS THIS SHEET: 0.31 AC



DATA PLOT
WETLAND BOUNDARY
GRADING LIMIT BOUNDARY
ROW BOUNDARY
WETLAND EXTENDS BEYOND STUDY AREA
FLOW DIRECTION
WETLAND
WETLAND IMPACT



N

0 25 50 100
SCALE IN FEET

PROPOSED WORK IMPACTS
DETAIL AREA 4

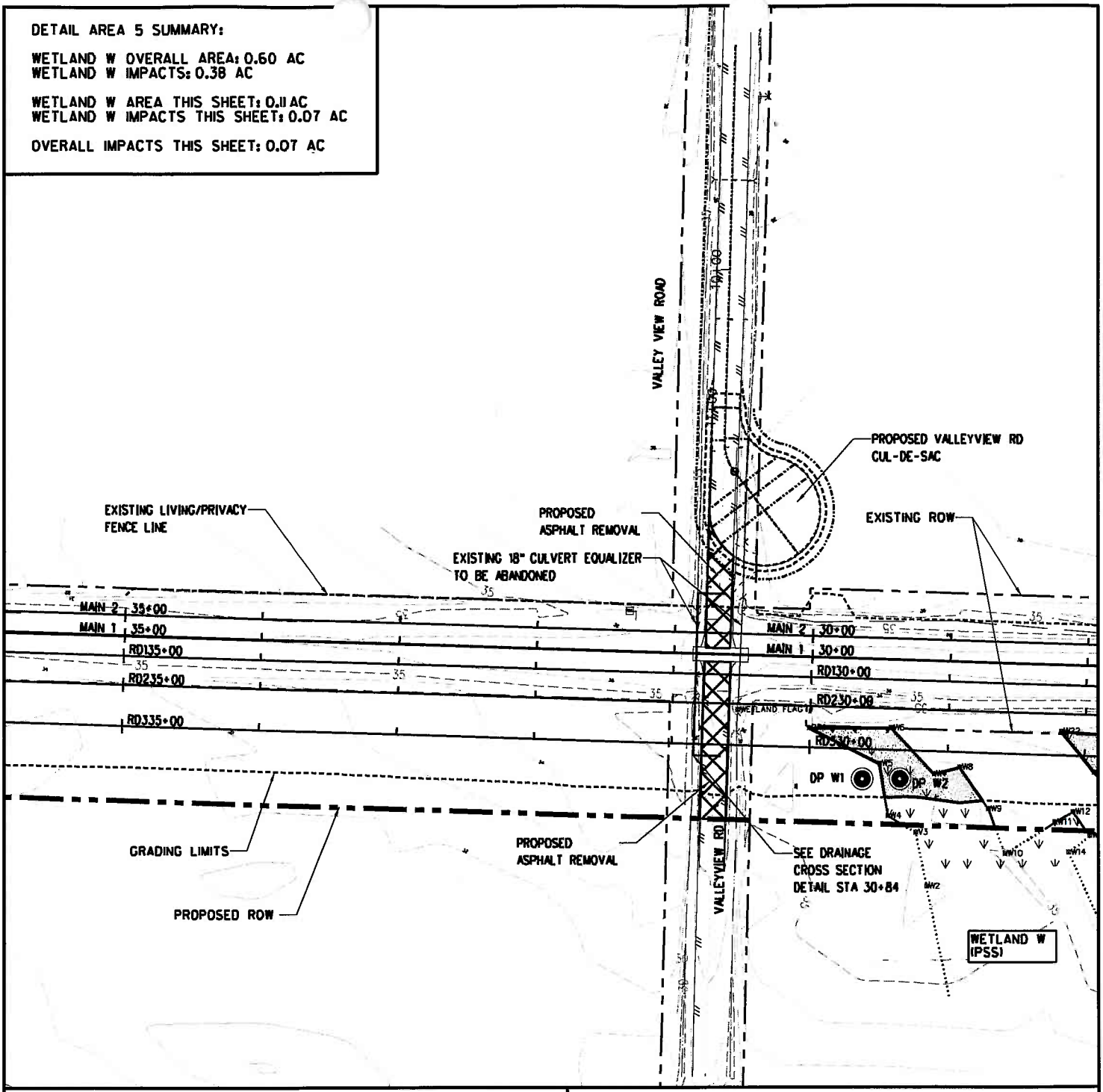
USACE REF NO.:
PROJECT: CUSTER SPUR IMPROVEMENTS (INTALCO WYE TO ELLIOTT YARD CAPACITY EXPANSION PROJECT)
APPLICANT: BNSF RAILWAY CO.
WATERWAY: CALIFORNIA CREEK; TERRELL CREEK
BNSF LOCATION: NW DIVISION, CHERRY POINT SUBDIVISION, LS 418
LEGAL: IN PORTIONS OF SECTIONS 26, 27, 28, 32, 33, T40N, R1E, AND SECTIONS 5, 8, 17, T39N, R1E
COUNTY: WHATCOM STATE: WASHINGTON
LAT/LONG START: N48.9218°; W122.6478°
LAT/LONG END: N48.8702°; W122.7094°
DATE: 08\12\2011 SHEET OF

DETAIL AREA 5 SUMMARY:

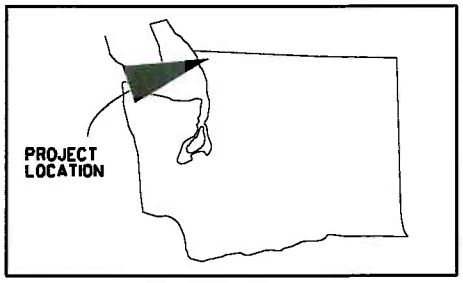
WETLAND W OVERALL AREA: 0.60 AC
WETLAND W IMPACTS: 0.38 AC

WETLAND W AREA THIS SHEET: 0.11 AC
WETLAND W IMPACTS THIS SHEET: 0.07 AC

OVERALL IMPACTS THIS SHEET: 0.07 AC



DATA PLOT
WETLAND BOUNDARY
GRADING LIMIT BOUNDARY
ROW BOUNDARY
WETLAND EXTENDS BEYOND STUDY AREA
FLOW DIRECTION
WETLAND
WETLAND IMPACT



N

0 25 50 100
SCALE IN FEET

PROPOSED WORK IMPACTS
DETAIL AREA 5

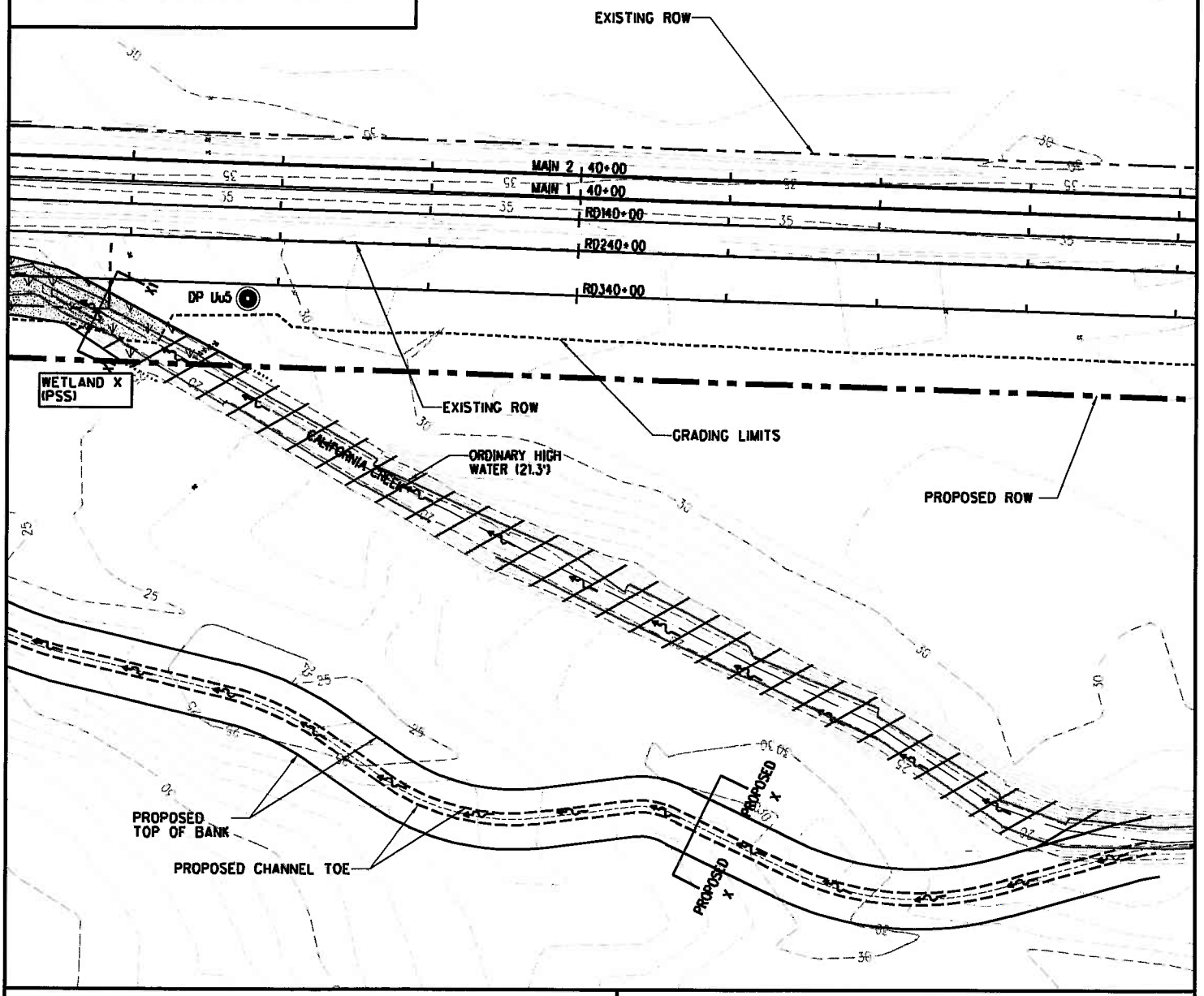
USACE REF NO.:
PROJECT: CUSTER SPUR IMPROVEMENTS (INTALCO WYE TO ELLIOTT YARD CAPACITY EXPANSION PROJECT)
APPLICANT: BNSF RAILWAY CO.
WATERWAY: CALIFORNIA CREEK; TERRELL CREEK
BNSF LOCATION: NW DIVISION, CHERRY POINT SUBDIVISION, LS 418
LEGAL: IN PORTIONS OF SECTIONS 26, 27, 28, 32, 33, T40N, R1E, AND SECTIONS 5, 8, 17, T39N, R1E
COUNTY: WHATCOM STATE: WASHINGTON
LAT/LONG START: N48.9218°; W122.6478°
LAT/LONG END: N48.8702°; W122.7094°
DATE: 08\12\2011 SHEET OF

DETAIL AREA 6 SUMMARY:

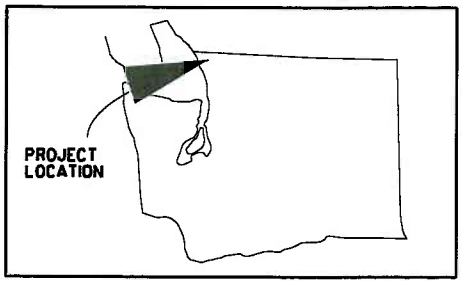
WETLAND X OVERALL AREA: 0.35 AC
WETLAND X OVERALL IMPACTS: 0.18 AC

WETLAND X AREA THIS SHEET: 0.11 AC
WETLAND X IMPACTS THIS SHEET: 0.08 AC

OVERALL IMPACTS THIS SHEET: 0.08 AC



DATA PLOT
WETLAND BOUNDARY
GRADING LIMIT BOUNDARY
ROW BOUNDARY
WETLAND EXTENDS BEYOND STUDY AREA
FLOW DIRECTION
WETLAND
WETLAND IMPACT



N

0 25 50 100
SCALE IN FEET

PROPOSED WORK IMPACTS
DETAIL AREA 6

USACE REF NO.:
PROJECT: CUSTER SPUR IMPROVEMENTS (INTALCO WYE TO ELLIOTT YARD CAPACITY EXPANSION PROJECT)
APPLICANT: BNSF RAILWAY CO.
WATERWAY: CALIFORNIA CREEK; TERRELL CREEK
BNSF LOCATION: NW DIVISION, CHERRY POINT SUBDIVISION, LS 418
LEGAL: IN PORTIONS OF SECTIONS 26, 27, 28, 32, 33, T40N, R1E, AND SECTIONS 5, 8, 17, T39N, R1E
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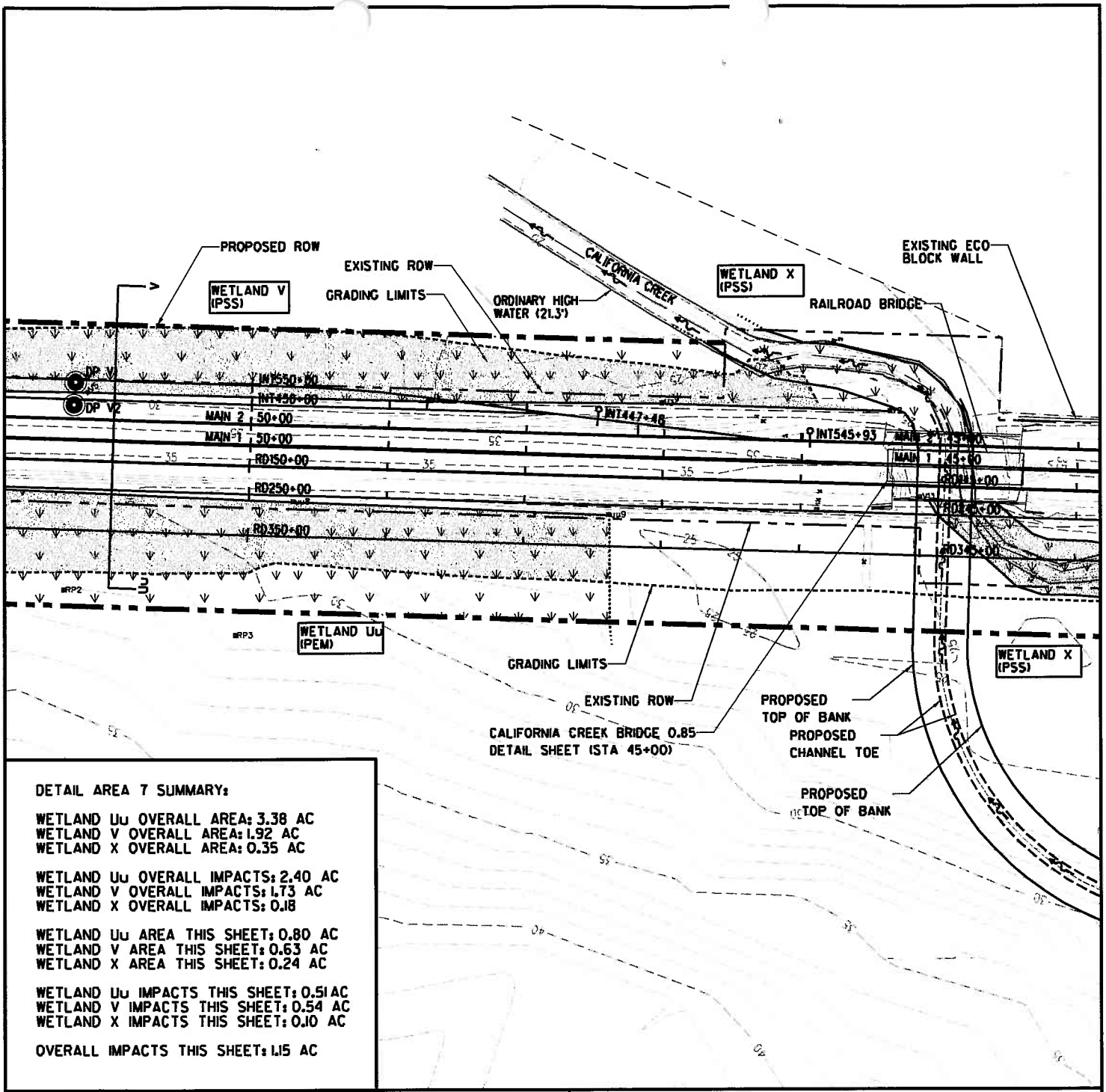
DATE: 08\12\2011 SHEET OF



DETAIL AREA 7 SUMMARY:

WETLAND Uu OVERALL AREA: 3.38 AC
WETLAND V OVERALL AREA: 1.92 AC
WETLAND X OVERALL AREA: 0.35 AC

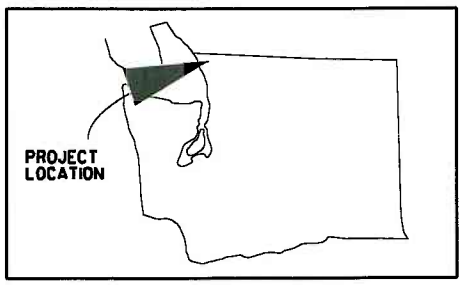
WETLAND Uu OVERALL IMPACTS: 2.40 AC
WETLAND V OVERALL IMPACTS: 1.73 AC
WETLAND X OVERALL IMPACTS: 0.18

WETLAND Uu AREA THIS SHEET: 0.80 AC
WETLAND V AREA THIS SHEET: 0.63 AC
WETLAND X AREA THIS SHEET: 0.24 AC

WETLAND Uu IMPACTS THIS SHEET: 0.51 AC
WETLAND V IMPACTS THIS SHEET: 0.54 AC
WETLAND X IMPACTS THIS SHEET: 0.10 AC

OVERALL IMPACTS THIS SHEET: 1.15 AC

DATA PLOT
WETLAND BOUNDARY
GRADING LIMIT BOUNDARY
ROW BOUNDARY
WETLAND EXTENDS BEYOND STUDY AREA
FLOW DIRECTION
WETLAND
WETLAND IMPACT



N

0 25 50 100
SCALE IN FEET

PROPOSED WORK IMPACTS
DETAIL AREA 7

USACE REF NO.:
PROJECT: CUSTER SPUR IMPROVEMENTS (INTALCO WYE TO ELLIOTT YARD CAPACITY EXPANSION PROJECT)
APPLICANT: BNSF RAILWAY CO.
WATERWAY: CALIFORNIA CREEK; TERRELL CREEK
BNSF LOCATION: NW DIVISION, CHERRY POINT SUBDIVISION, LS 418
LEGAL: IN PORTIONS OF SECTIONS 26, 27, 28, 32, 33, T40N, R1E, AND SECTIONS 5, 8, 17, T39N, R1E
COUNTY: WHATCOM STATE: WASHINGTON
LAT/LONG START: N48.9218°; W122.6478°
LAT/LONG END: N48.8702°; W122.7094°
DATE: 08\12\2011 SHEET OF

DETAIL AREA 8 SUMMARY:

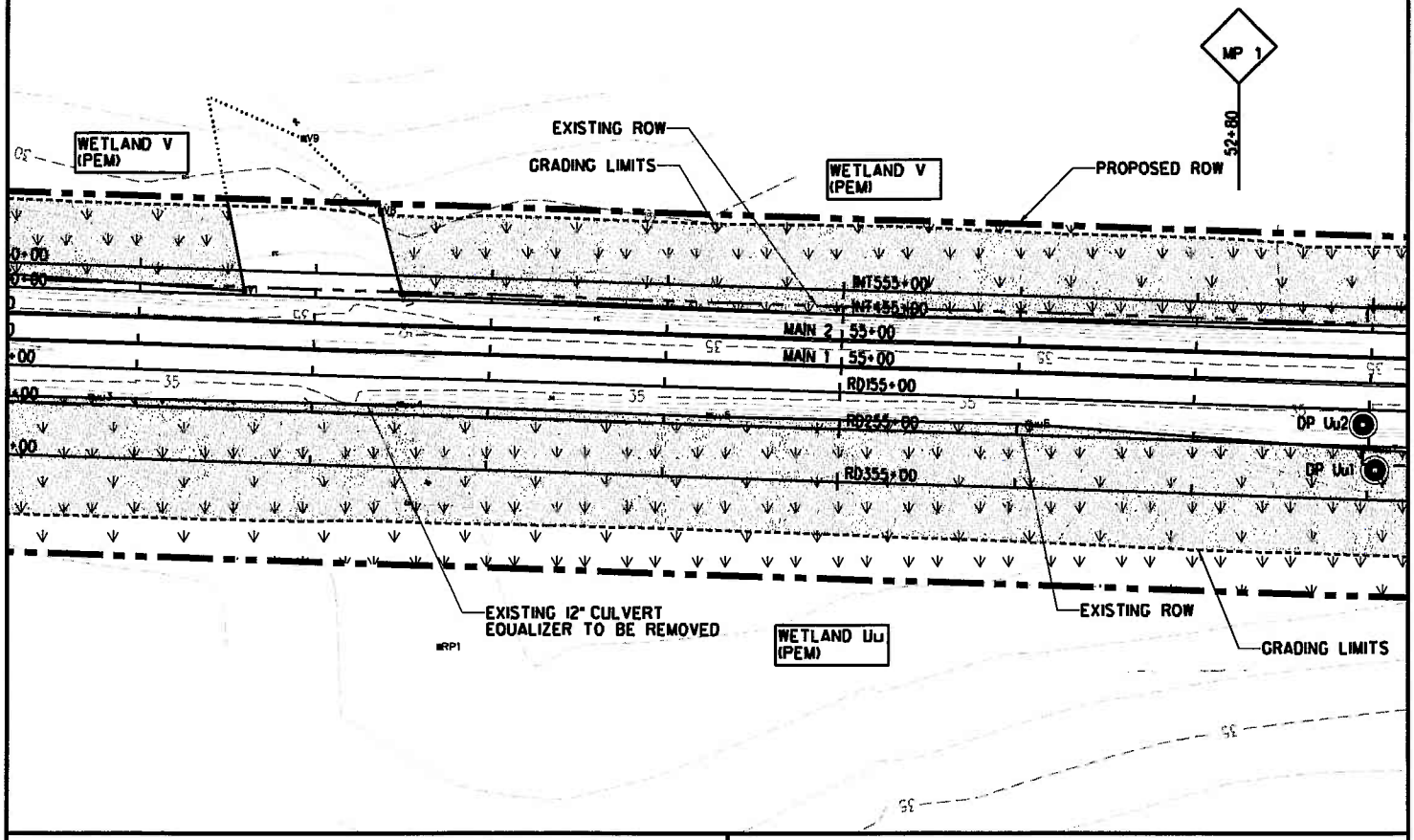
WETLAND V OVERALL AREA: 1.92 AC
WETLAND Uu OVERALL AREA: 3.38 AC

WETLAND V OVERALL IMPACTS: 1.73 AC
WETLAND Uu OVERALL IMPACTS: 2.40 AC

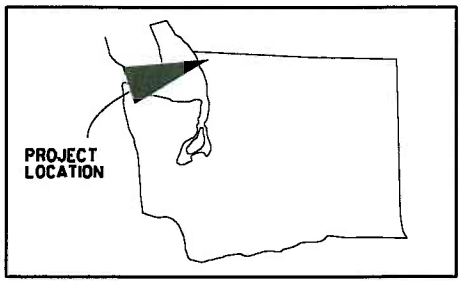
WETLAND V AREA THIS SHEET: 0.85 AC
WETLAND Uu AREA THIS SHEET: 1.63 AC

WETLAND V IMPACTS THIS SHEET: 0.78 AC
WETLAND Uu IMPACTS THIS SHEET: 1.19 AC

OVERALL IMPACTS THIS SHEET: 1.97 AC



DATA PLOT
WETLAND BOUNDARY
GRADING LIMIT BOUNDARY
ROW BOUNDARY
WETLAND EXTENDS BEYOND STUDY AREA
FLOW DIRECTION
WETLAND
WETLAND IMPACT



N

0 25 50 100
SCALE IN FEET

PROPOSED WORK IMPACTS
DETAIL AREA 8

USACE REF NO.:
PROJECT: CUSTER SPUR IMPROVEMENTS (INTALCO WYE TO ELLIOTT YARD CAPACITY EXPANSION PROJECT)
APPLICANT: BNSF RAILWAY CO.
WATERWAY: CALIFORNIA CREEK; TERRELL CREEK
BNSF LOCATION: NW DIVISION, CHERRY POINT SUBDIVISION, LS 418
LEGAL: IN PORTIONS OF SECTIONS 26, 27, 28, 32, 33, T40N, R1E, AND SECTIONS 5, 8, 17, T39N, R1E
COUNTY: WHATCOM STATE: WASHINGTON
LAT/LONG START: N48.9218°; W122.6478°
LAT/LONG END: N48.8702°; W122.7094°
DATE: 08\12\2011 SHEET OF

DETAIL AREA 9 SUMMARY:

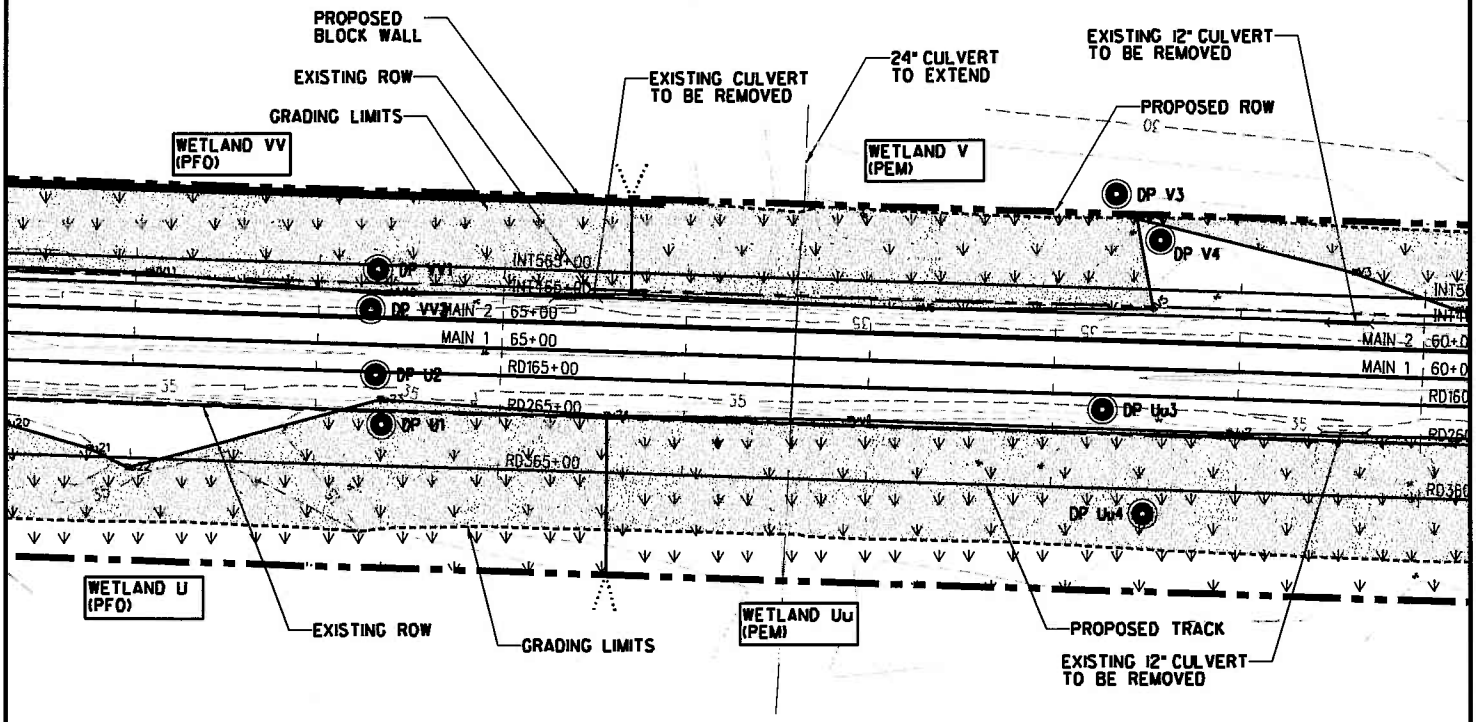
WETLAND U OVERALL AREA: 1.40 AC
WETLAND Uu OVERALL AREA: 3.38 AC
WETLAND V OVERALL AREA: 1.92 AC
WETLAND VV OVERALL AREA: 0.90 AC

WETLAND U OVERALL IMPACT: 1.04 AC
WETLAND Uu OVERALL IMPACT: 2.40 AC
WETLAND V OVERALL IMPACT: 1.73 AC
WETLAND VV OVERALL IMPACT: 0.85 AC

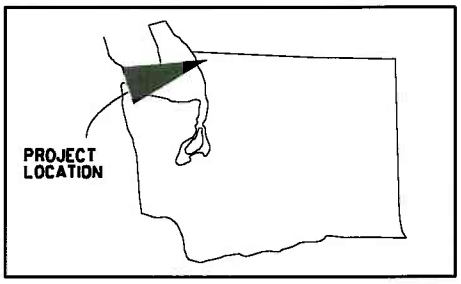
WETLAND U AREA THIS SHEET: 0.57 AC
WETLAND Uu AREA THIS SHEET: 0.95 AC
WETLAND V AREA THIS SHEET: 0.44 AC
WETLAND VV AREA THIS SHEET: 0.40 AC

WETLAND U IMPACT THIS SHEET: 0.41 AC
WETLAND Uu IMPACT THIS SHEET: 0.70 AC
WETLAND V IMPACT THIS SHEET: 0.41 AC
WETLAND VV IMPACT THIS SHEET: 0.38 AC

OVERALL IMPACTS ON THIS SHEET: 1.90 AC



DATA PLOT
WETLAND BOUNDARY
GRADING LIMIT BOUNDARY
ROW BOUNDARY
WETLAND EXTENDS BEYOND STUDY AREA
FLOW DIRECTION
WETLAND
WETLAND IMPACT



N

0 25 50 100
SCALE IN FEET

PROPOSED WORK IMPACTS
DETAIL AREA 9

USACE REF NO.:
PROJECT: CUSTER SPUR IMPROVEMENTS (INTALCO WYE TO ELLIOTT YARD CAPACITY EXPANSION PROJECT)
APPLICANT: BNSF RAILWAY CO.
WATERWAY: CALIFORNIA CREEK; TERRELL CREEK
BNSF LOCATION: NW DIVISION, CHERRY POINT SUBDIVISION, LS 418
LEGAL: IN PORTIONS OF SECTIONS 26, 27, 28, 32, 33, T40N, R1E, AND SECTIONS 5, 8, 17, T39N, R1E
COUNTY: WHATCOM STATE: WASHINGTON
LAT/LONG START: N48.9218°; W122.6478°
LAT/LONG END: N48.8702°; W122.7094°
DATE: 08\12\2011 SHEET OF

DETAIL AREA 10 SUMMARY:

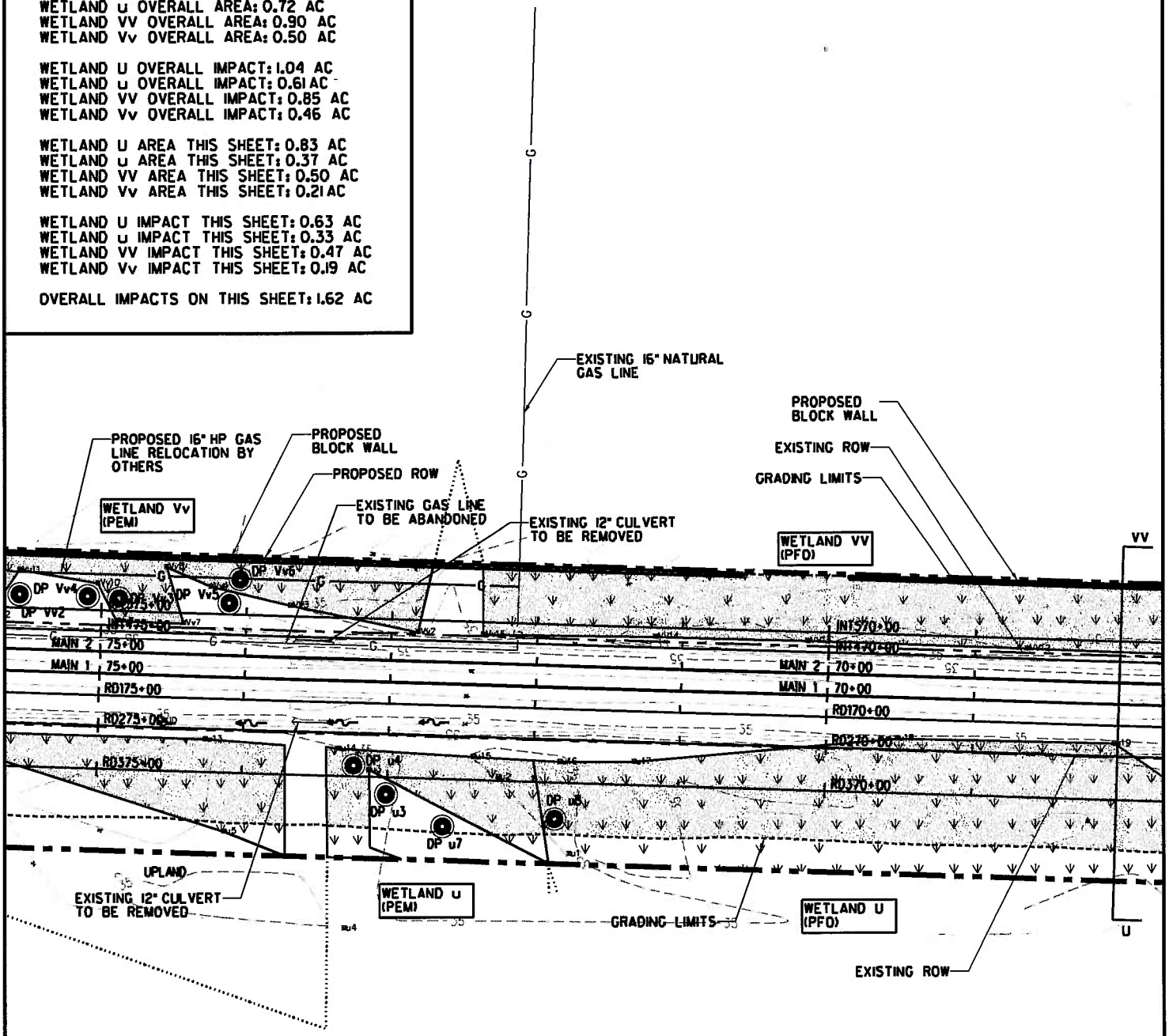
WETLAND U OVERALL AREA: 1.40 AC
WETLAND u OVERALL AREA: 0.72 AC
WETLAND VV OVERALL AREA: 0.90 AC
WETLAND Vv OVERALL AREA: 0.50 AC

WETLAND U OVERALL IMPACT: 1.04 AC
WETLAND u OVERALL IMPACT: 0.61 AC
WETLAND VV OVERALL IMPACT: 0.85 AC
WETLAND Vv OVERALL IMPACT: 0.46 AC

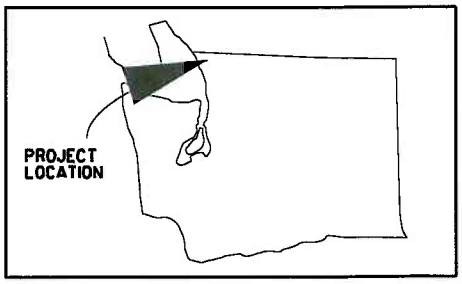
WETLAND U AREA THIS SHEET: 0.83 AC
WETLAND u AREA THIS SHEET: 0.37 AC
WETLAND VV AREA THIS SHEET: 0.50 AC
WETLAND Vv AREA THIS SHEET: 0.21 AC

WETLAND U IMPACT THIS SHEET: 0.63 AC
WETLAND u IMPACT THIS SHEET: 0.33 AC
WETLAND VV IMPACT THIS SHEET: 0.47 AC
WETLAND Vv IMPACT THIS SHEET: 0.19 AC

OVERALL IMPACTS ON THIS SHEET: 1.62 AC



DATA PLOT
WETLAND BOUNDARY
GRADING LIMIT BOUNDARY
ROW BOUNDARY
WETLAND EXTENDS BEYOND STUDY AREA
FLOW DIRECTION
WETLAND
WETLAND IMPACT



N

0 25 50 100
SCALE IN FEET

PROPOSED WORK IMPACTS
DETAIL AREA 10

USACE REF NO.:
PROJECT: CUSTER SPUR IMPROVEMENTS (INTALCO WYE TO ELLIOTT YARD CAPACITY EXPANSION PROJECT)
APPLICANT: BNSF RAILWAY CO.
WATERWAY: CALIFORNIA CREEK; TERRELL CREEK
BNSF LOCATION: NW DIVISION, CHERRY POINT SUBDIVISION, LS 418
LEGAL: IN PORTIONS OF SECTIONS 26, 27, 28, 32, 33, T40N, R1E, AND SECTIONS 5, 8, 17, T39N, R1E
COUNTY: WHATCOM STATE: WASHINGTON
LAT/LONG START: N48.9218°; W122.6478°
LAT/LONG END: N48.8702°; W122.7094°
DATE: 08\12\2011 SHEET OF

DETAIL AREA II SUMMARY:

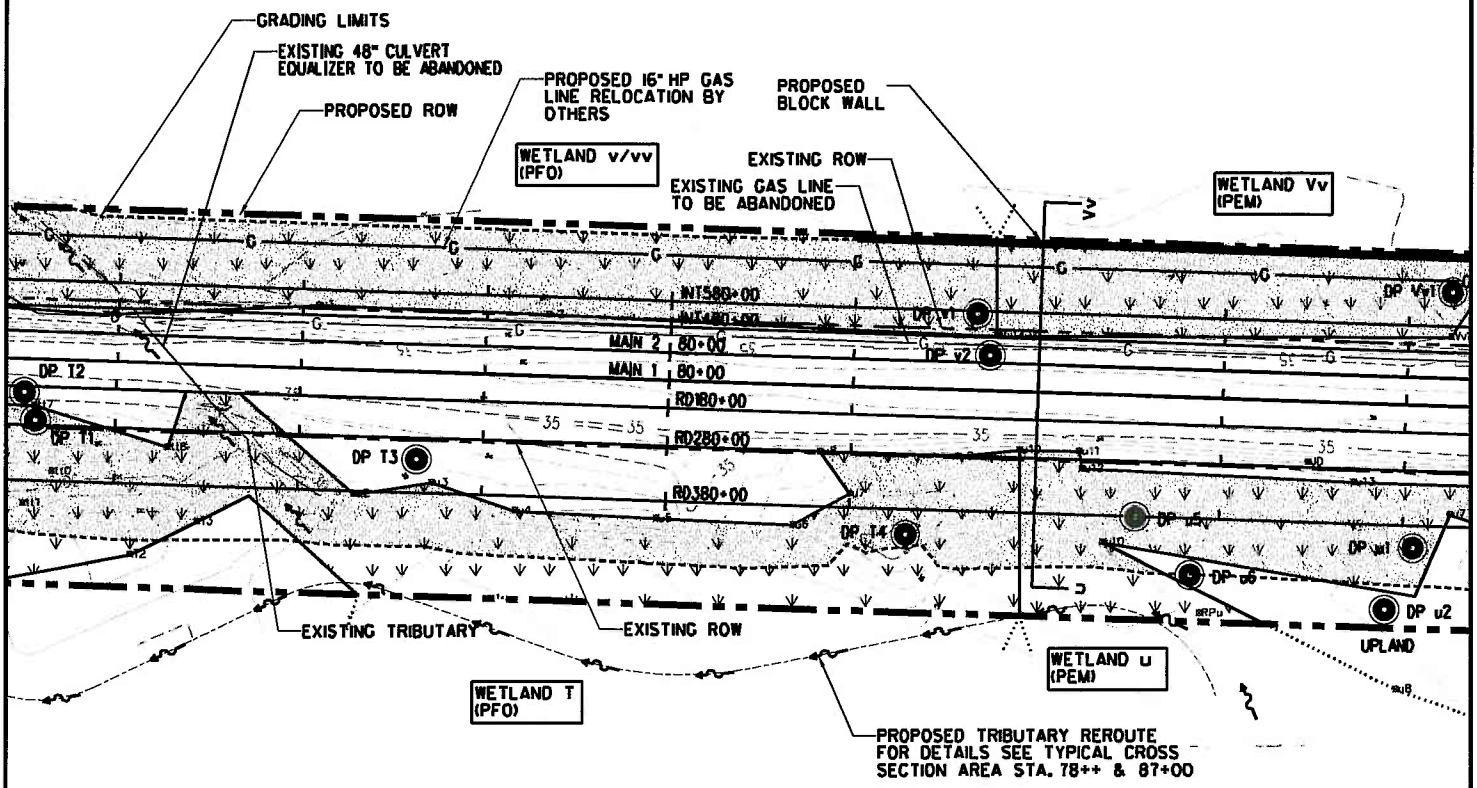
WETLAND T OVERALL AREA: 0.92 AC
WETLAND u OVERALL AREA: 0.72 AC
WETLAND v/vv OVERALL AREA: 2.34 AC
WETLAND Vv OVERALL AREA: 0.50 AC

WETLAND T OVERALL IMPACTS: 0.69 AC
WETLAND u OVERALL IMPACTS: 0.61 AC
WETLAND v/vv OVERALL IMPACTS: 2.19 AC
WETLAND Vv OVERALL IMPACTS: 0.46 AC

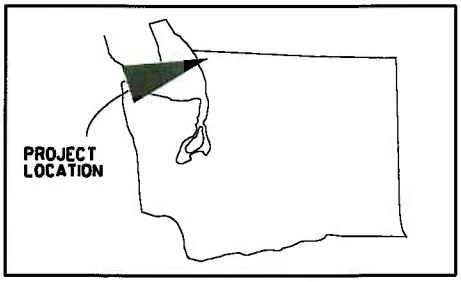
WETLAND T AREA THIS SHEET: 0.78 AC
WETLAND u AREA THIS SHEET: 0.35 AC
WETLAND v/vv AREA THIS SHEET: 0.64 AC
WETLAND Vv AREA THIS SHEET: 0.29 AC

WETLAND T IMPACTS THIS SHEET: 0.56 AC
WETLAND u IMPACTS THIS SHEET: 0.28 AC
WETLAND v/vv IMPACTS THIS SHEET: 0.59 AC
WETLAND Vv IMPACTS THIS SHEET: 0.27 AC

OVERALL IMPACTS THIS SHEET: 1.70 AC



DATA PLOT
WETLAND BOUNDARY
GRADING LIMIT BOUNDARY
ROW BOUNDARY
WETLAND EXTENDS BEYOND STUDY AREA
FLOW DIRECTION
WETLAND
WETLAND IMPACT



N

0 25 50 100
SCALE IN FEET

PROPOSED WORK IMPACTS
DETAIL AREA II

USACE REF NO.:
PROJECT: CUSTER SPUR IMPROVEMENTS (INTALCO WYE TO ELLIOTT YARD CAPACITY EXPANSION PROJECT)
APPLICANT: BNSF RAILWAY CO.
WATERWAY: CALIFORNIA CREEK; TERRELL CREEK
BNSF LOCATION: NW DIVISION, CHERRY POINT SUBDIVISION, LS 418
LEGAL: IN PORTIONS OF SECTIONS 26, 27, 28, 32, 33, T40N, R1E, AND SECTIONS 5, 8, 17, T39N, R1E
COUNTY: WHATCOM STATE: WASHINGTON
LAT/LONG START: N48.9218°; W122.6478°
LAT/LONG END: N48.8702°; W122.7094°
DATE: 08\12\2011 SHEET OF

DETAIL AREA 12 SUMMARY:

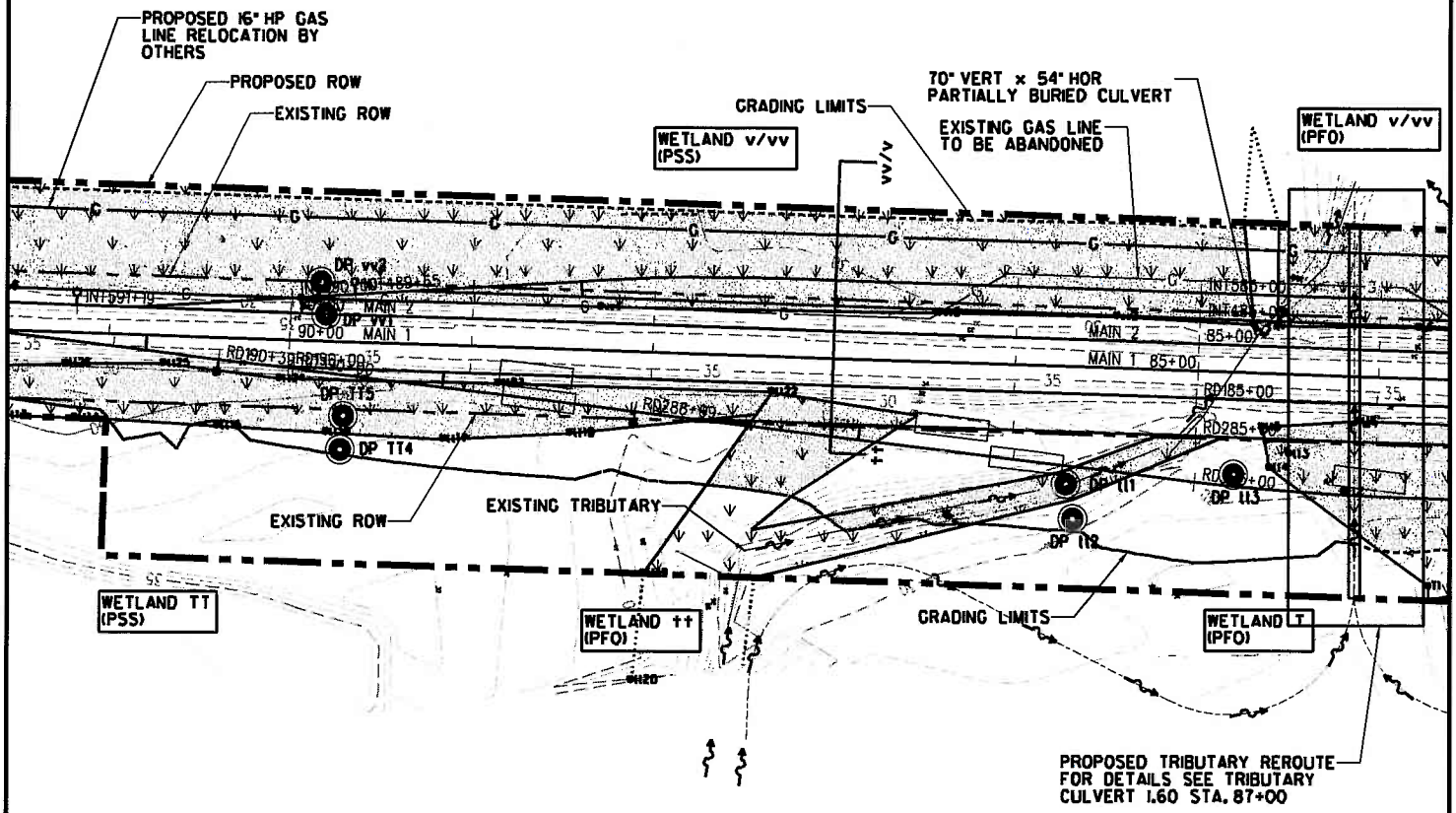
WETLAND T OVERALL AREA: 0.92 AC
WETLAND TT OVERALL AREA: 0.88 AC
WETLAND †† OVERALL AREA: 0.25 AC
WETLAND v/vv OVERALL AREA: 2.34 AC

WETLAND T IMPACTS: 0.69 AC
WETLAND TT IMPACTS: 0.34 AC
WETLAND †† IMPACTS: 0.15 AC
WETLAND v/vv IMPACTS: 2.19 AC

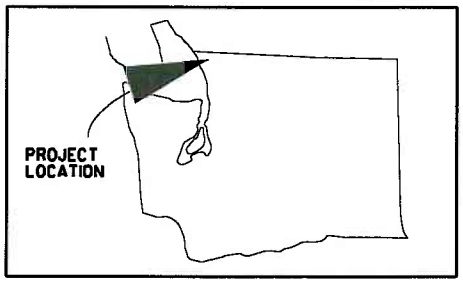
WETLAND T AREA THIS SHEET: 0.14 AC
WETLAND TT AREA THIS SHEET: 0.26 AC
WETLAND †† AREA THIS SHEET: 0.25 AC
WETLAND v/vv AREA THIS SHEET: 1.03 AC

WETLAND T IMPACTS THIS SHEET: 0.13 AC
WETLAND TT IMPACTS THIS SHEET: 0.25 AC
WETLAND †† IMPACTS THIS SHEET: 0.15 AC
WETLAND v/vv IMPACTS THIS SHEET: 0.97 AC

TOTAL IMPACTS THIS SHEET: 1.50 AC



DATA PLOT
WETLAND BOUNDARY
GRADING LIMIT BOUNDARY
ROW BOUNDARY
WETLAND EXTENDS BEYOND STUDY AREA
FLOW DIRECTION
WETLAND
WETLAND IMPACT



N

0 25 50 100
SCALE IN FEET

PROPOSED WORK IMPACTS
DETAIL AREA 12

USACE REF NO.:
PROJECT: CUSTER SPUR IMPROVEMENTS (INTALCO WYE TO ELLIOTT YARD CAPACITY EXPANSION PROJECT)
APPLICANT: BNSF RAILWAY CO.
WATERWAY: CALIFORNIA CREEK; TERRELL CREEK
BNSF LOCATION: NW DIVISION, CHERRY POINT SUBDIVISION, LS 418
LEGAL: IN PORTIONS OF SECTIONS 26, 27, 28, 32, 33, T40N, R1E, AND SECTIONS 5, 8, 17, T39N, R1E
COUNTY: WHATCOM STATE: WASHINGTON
LAT/LONG START: N48.9218°; W122.6478°
LAT/LONG END: N48.8702°; W122.7094°
DATE: 08\12\2011 SHEET OF

DETAIL AREA 13 SUMMARY:

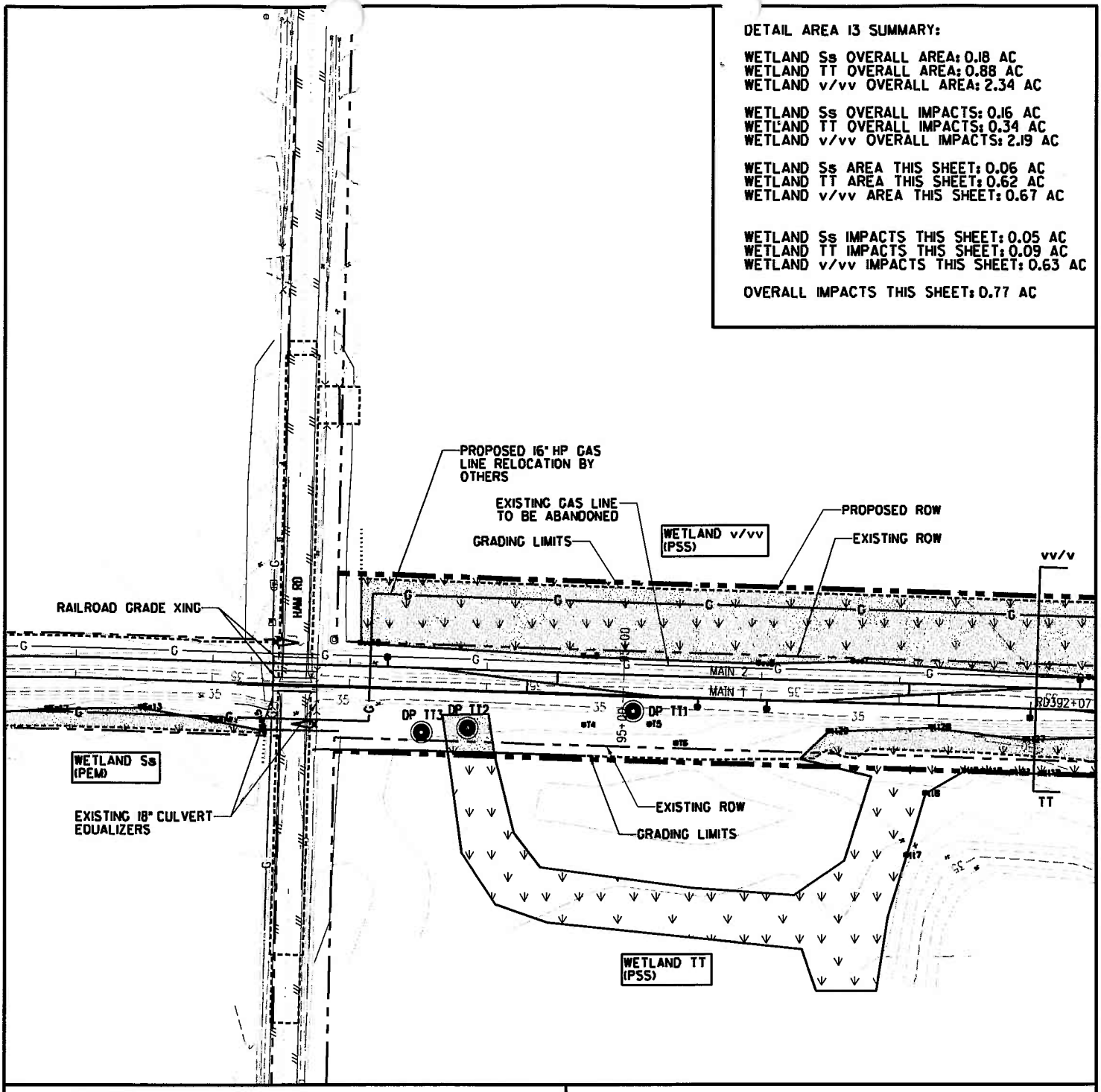
WETLAND Ss OVERALL AREA: 0.18 AC
WETLAND TT OVERALL AREA: 0.88 AC
WETLAND v/vv OVERALL AREA: 2.34 AC

WETLAND Ss OVERALL IMPACTS: 0.16 AC
WETLAND TT OVERALL IMPACTS: 0.34 AC
WETLAND v/vv OVERALL IMPACTS: 2.19 AC

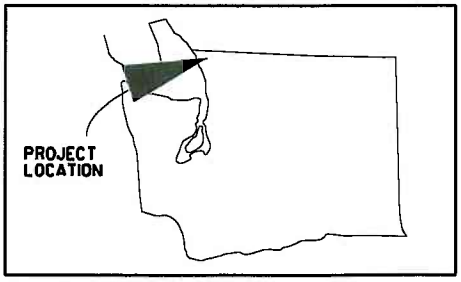
WETLAND Ss AREA THIS SHEET: 0.06 AC
WETLAND TT AREA THIS SHEET: 0.62 AC
WETLAND v/vv AREA THIS SHEET: 0.67 AC

WETLAND Ss IMPACTS THIS SHEET: 0.05 AC
WETLAND TT IMPACTS THIS SHEET: 0.09 AC
WETLAND v/vv IMPACTS THIS SHEET: 0.63 AC

OVERALL IMPACTS THIS SHEET: 0.77 AC



DATA PLOT
WETLAND BOUNDARY
GRADING LIMIT BOUNDARY
ROW BOUNDARY
WETLAND EXTENDS BEYOND STUDY AREA
FLOW DIRECTION
WETLAND
WETLAND IMPACT



N

0 25 50 100
SCALE IN FEET

PROPOSED WORK IMPACTS
DETAIL AREA 13

USACE REF NO.:
PROJECT: CUSTER SPUR IMPROVEMENTS (INTALCO WYE TO ELLIOTT YARD CAPACITY EXPANSION PROJECT)
APPLICANT: BNSF RAILWAY CO.
WATERWAY: CALIFORNIA CREEK; TERRELL CREEK
BNSF LOCATION: NW DIVISION, CHERRY POINT SUBDIVISION, LS 418
LEGAL: IN PORTIONS OF SECTIONS 26, 27, 28, 32, 33, T40N, R1E, AND SECTIONS 5, 8, 17, T39N, R1E
COUNTY: WHATCOM STATE: WASHINGTON
LAT/LONG START: N48.9218°; W122.6478°
LAT/LONG END: N48.8702°; W122.7094°
DATE: 08\12\2011 SHEET OF

DETAIL AREA 14 SUMMARY:

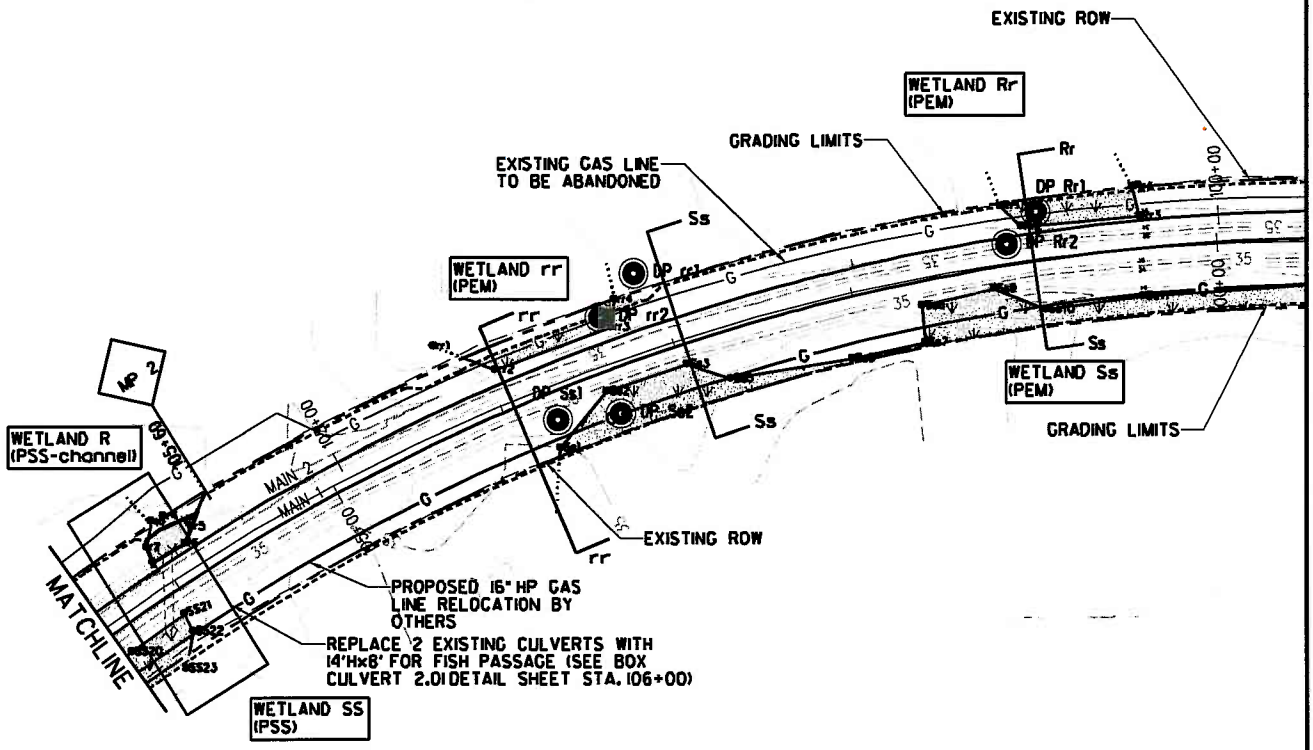
WETLAND R OVERALL AREA: 0.43 AC
WETLAND rr OVERALL AREA: 0.02 AC
WETLAND Rr OVERALL AREA: 0.02 AC
WETLAND SS OVERALL AREA: 0.63 AC
WETLAND Ss OVERALL AREA: 0.18 AC

WETLAND R OVERALL IMPACTS: 0.27 AC
WETLAND rr OVERALL IMPACTS: 0.01 AC
WETLAND Rr OVERALL IMPACTS: 0.02 AC
WETLAND SS OVERALL IMPACTS: 0.32 AC
WETLAND Ss OVERALL IMPACTS: 0.16 AC

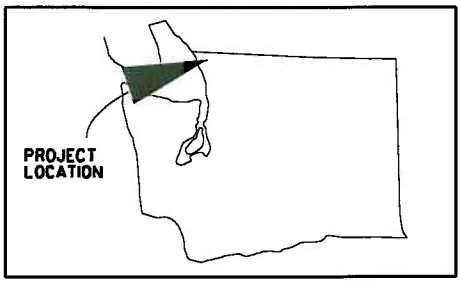
WETLAND R AREA THIS SHEET: 0.01 AC
WETLAND rr AREA THIS SHEET: 0.02 AC
WETLAND Rr AREA THIS SHEET: 0.02 AC
WETLAND SS AREA THIS SHEET: 0.02 AC
WETLAND Ss AREA THIS SHEET: 0.12 AC

WETLAND R IMPACTS THIS SHEET: 0.01 AC
WETLAND rr IMPACTS THIS SHEET: 0.01 AC
WETLAND Rr IMPACTS THIS SHEET: 0.02 AC
WETLAND SS IMPACTS THIS SHEET: 0.02 AC
WETLAND Ss IMPACTS THIS SHEET: 0.11 AC

OVERALL IMPACTS THIS SHEET: 0.17 AC



DATA PLOT
WETLAND BOUNDARY
GRADING LIMIT BOUNDARY
ROW BOUNDARY
WETLAND EXTENDS BEYOND STUDY AREA
FLOW DIRECTION
WETLAND
WETLAND IMPACT



N

0 25 50 100
SCALE IN FEET

PROPOSED WORK IMPACTS
DETAIL AREA 14

USACE REF NO.:
PROJECT: CUSTER SPUR IMPROVEMENTS (INTALCO WYE TO ELLIOTT YARD CAPACITY EXPANSION PROJECT)
APPLICANT: BNSF RAILWAY CO.
WATERWAY: CALIFORNIA CREEK; TERRELL CREEK
BNSF LOCATION: NW DIVISION, CHERRY POINT SUBDIVISION, LS 418
LEGAL: IN PORTIONS OF SECTIONS 26, 27, 28, 32, 33, T40N, R1E, AND SECTIONS 5, 8, 17, T39N, R1E
COUNTY: WHATCOM STATE: WASHINGTON
LAT/LONG START: N48.9218°; W122.6478°
LAT/LONG END: N48.8702°; W122.7094°
DATE: 08\12\2011 SHEET OF

DETAIL AREA 15 SUMMARY:

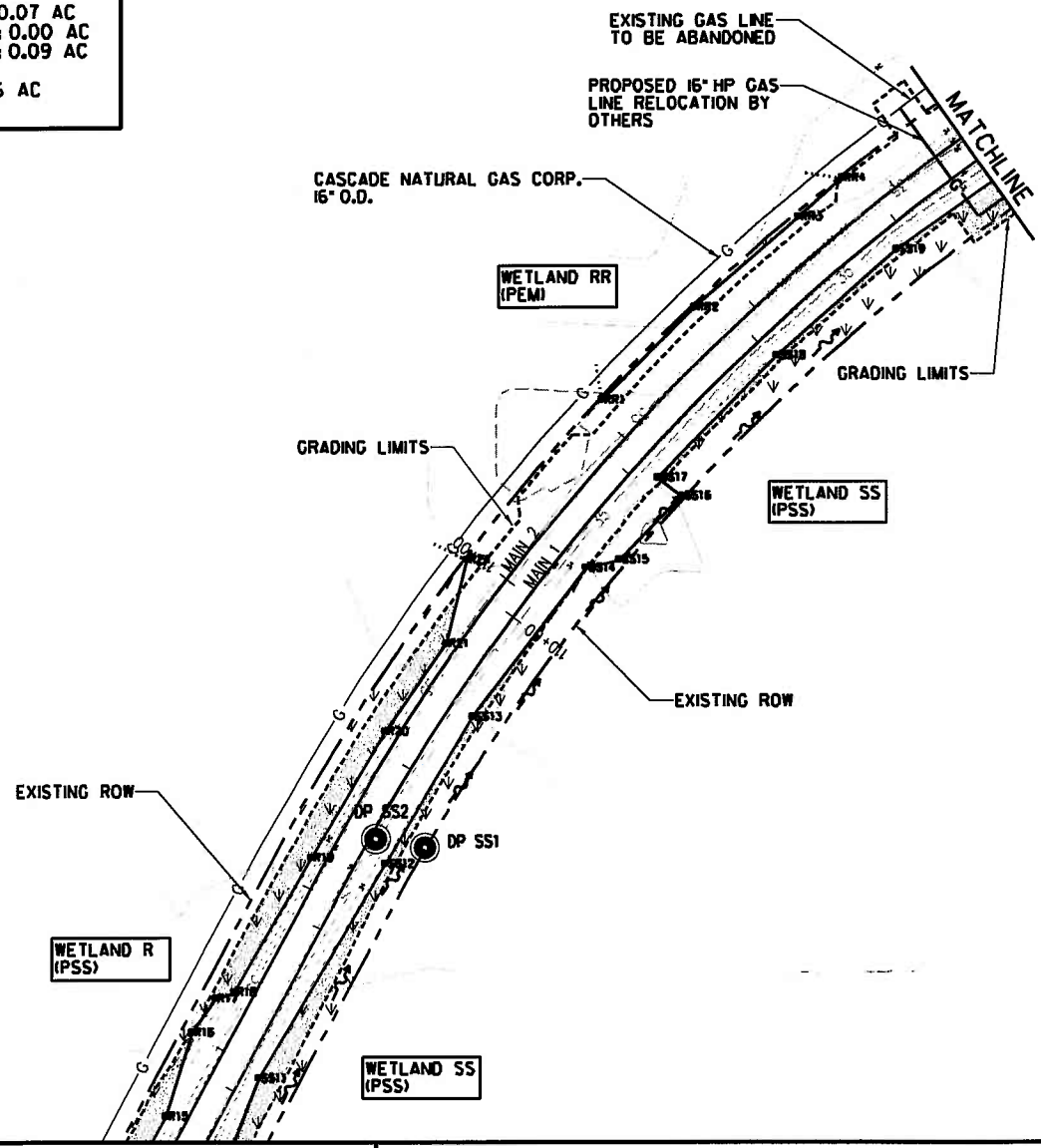
WETLAND R OVERALL AREA: 0.43 AC
WETLAND RR OVERALL AREA: 0.01 AC
WETLAND SS OVERALL AREA: 0.63 AC

WETLAND R OVERALL IMPACTS: 0.27 AC
WETLAND RR OVERALL IMPACTS: 0.00 AC
WETLAND SS OVERALL IMPACTS: 0.32 AC

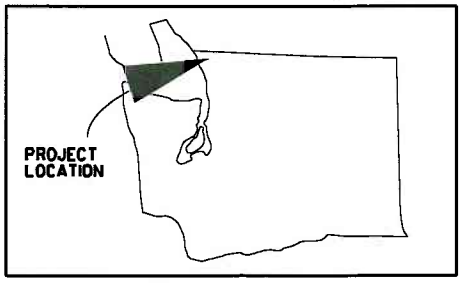
WETLAND R AREA THIS SHEET: 0.13 AC
WETLAND RR AREA THIS SHEET: 0.01 AC
WETLAND SS AREA THIS SHEET: 0.24 AC

WETLAND R IMPACTS THIS SHEET: 0.07 AC
WETLAND RR IMPACTS THIS SHEET: 0.00 AC
WETLAND SS IMPACTS THIS SHEET: 0.09 AC

OVERALL IMPACTS THIS SHEET: 0.16 AC



DATA PLOT
WETLAND BOUNDARY
GRADING LIMIT BOUNDARY
ROW BOUNDARY
WETLAND EXTENDS BEYOND STUDY AREA
FLOW DIRECTION
WETLAND
WETLAND IMPACT

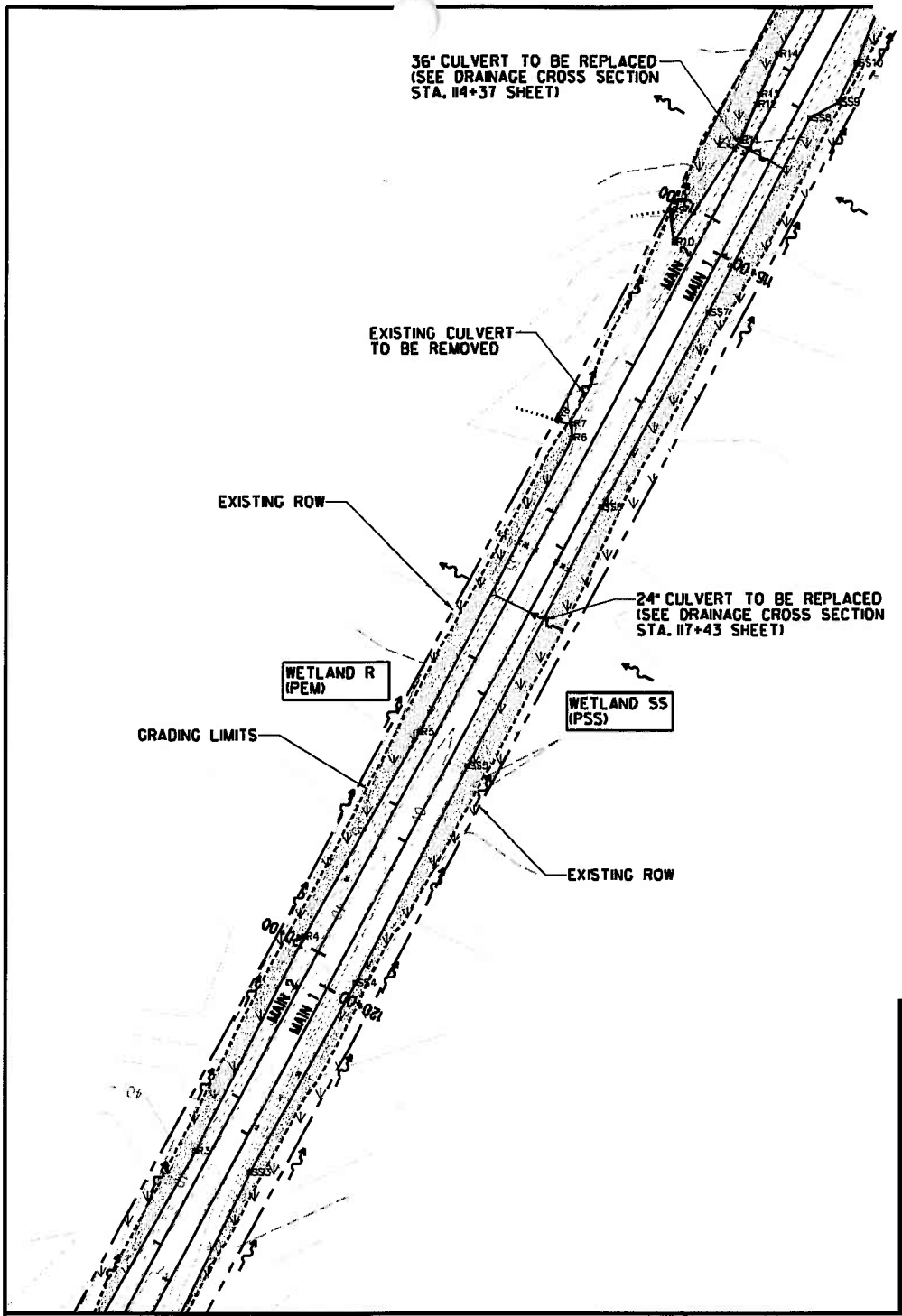


N

0 25 50 100
SCALE IN FEET

PROPOSED WORK IMPACTS
DETAIL AREA 15

USACE REF NO.:
PROJECT: CUSTER SPUR IMPROVEMENTS (INTALCO WYE TO ELLIOTT YARD CAPACITY EXPANSION PROJECT)
APPLICANT: BNSF RAILWAY CO.
WATERWAY: CALIFORNIA CREEK; TERRELL CREEK
BNSF LOCATION: NW DIVISION, CHERRY POINT SUBDIVISION, LS 418
LEGAL: IN PORTIONS OF SECTIONS 26, 27, 28, 32, 33, T40N, R1E, AND SECTIONS 5, 8, 17, T39N, R1E
COUNTY: WHATCOM STATE: WASHINGTON
LAT/LONG START: N48.9218°; W122.6478°
LAT/LONG END: N48.8702°; W122.7094°
DATE: 08\12\2011 SHEET OF



DETAIL AREA 16 SUMMARY:

WETLAND R OVERALL AREA: 0.43 AC
WETLAND SS OVERALL AREA: 0.63 AC

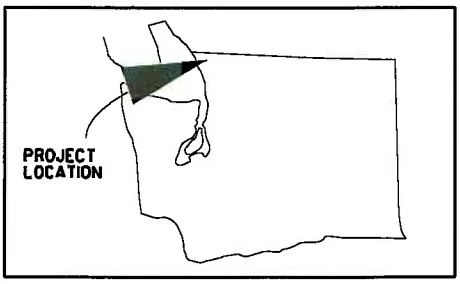
WETLAND R OVERALL IMPACTS: 0.27 AC
WETLAND SS OVERALL IMPACTS: 0.32 AC

WETLAND R AREA THIS SHEET: 0.28 AC
WETLAND SS AREA THIS SHEET: 0.36 AC

WETLAND R IMPACTS THIS SHEET: 0.19 AC
WETLAND SS IMPACTS THIS SHEET: 0.21 AC

OVERALL IMPACTS THIS SHEET: 0.40 AC

DATA PLOT
WETLAND BOUNDARY
GRADING LIMIT BOUNDARY
ROW BOUNDARY
WETLAND EXTENDS BEYOND STUDY AREA
FLOW DIRECTION
WETLAND
WETLAND IMPACT

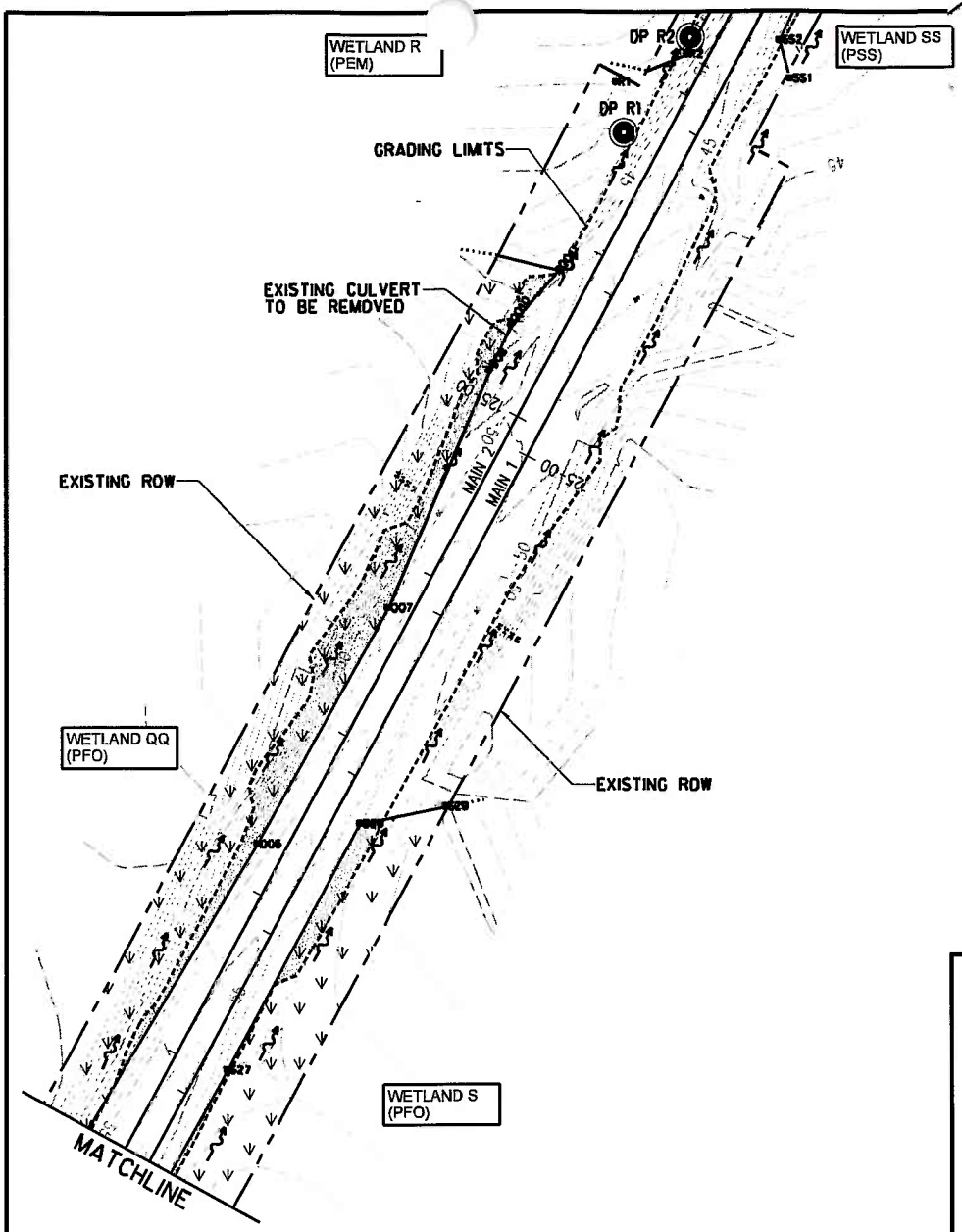


N

0 25 50 100
SCALE IN FEET

PROPOSED WORK IMPACTS
DETAIL AREA 16

USACE REF NO.:
PROJECT: CUSTER SPUR IMPROVEMENTS (INTALCO WYE TO ELLIOTT YARD CAPACITY EXPANSION PROJECT)
APPLICANT: BNSF RAILWAY CO.
WATERWAY: CALIFORNIA CREEK; TERRELL CREEK
BNSF LOCATION: NW DIVISION, CHERRY POINT SUBDIVISION, LS 418
LEGAL: IN PORTIONS OF SECTIONS 26, 27, 28, 32, 33, T40N, R1E, AND SECTIONS 5, 8, 17, T39N, R1E
COUNTY: WHATCOM STATE: WASHINGTON
LAT/LONG START: N48.9218°; W122.6478°
LAT/LONG END: N48.8702°; W122.7094°
DATE: 08\12\2011 SHEET OF



DETAIL AREA 17 SUMMARY:

WETLAND QQ OVERALL AREA: 0.54 AC
WETLAND R OVERALL AREA: 0.43 AC
WETLAND S OVERALL AREA: 1.10 AC
WETLAND SS OVERALL AREA: 0.63 AC

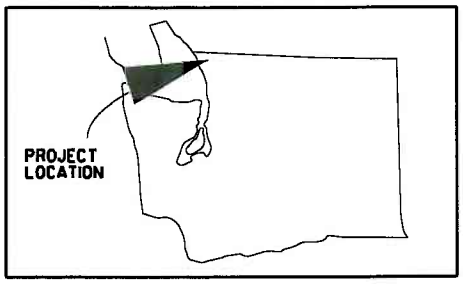
WETLAND QQ OVERALL IMPACTS: 0.15 AC
WETLAND R OVERALL IMPACTS: 0.27 AC
WETLAND S OVERALL IMPACTS: 0.11 AC
WETLAND SS OVERALL IMPACTS: 0.32 AC

WETLAND QQ AREA THIS SHEET: 0.41 AC
WETLAND R AREA THIS SHEET: 0.01 AC
WETLAND S AREA THIS SHEET: 0.21 AC
WETLAND SS AREA THIS SHEET: 0.01 AC

WETLAND QQ IMPACTS THIS SHEET: 0.13 AC
WETLAND R IMPACTS THIS SHEET: 0.00 AC
WETLAND S IMPACTS THIS SHEET: 0.03 AC
WETLAND SS IMPACTS THIS SHEET: 0.00 AC

OVERALL IMPACTS THIS SHEET: 0.16 AC

DATA PLOT
WETLAND BOUNDARY
GRADING LIMIT BOUNDARY
ROW BOUNDARY
WETLAND EXTENDS BEYOND STUDY AREA
FLOW DIRECTION
WETLAND
WETLAND IMPACT

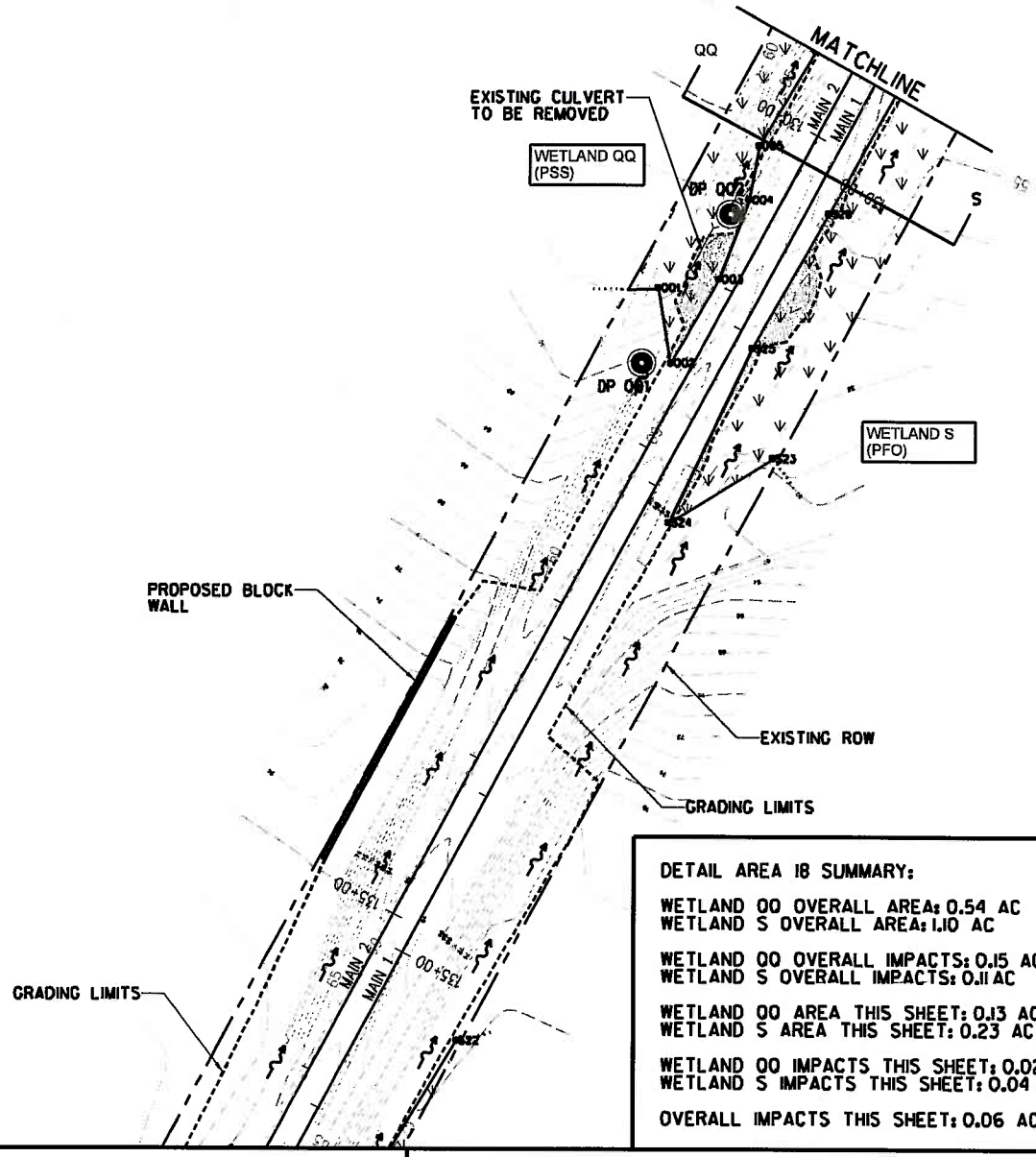


N

0 25 50 100
SCALE IN FEET

PROPOSED WORK IMPACTS
DETAIL AREA 17

USACE REF NO.:
PROJECT: CUSTER SPUR IMPROVEMENTS (INTALCO WYE TO ELLIOTT YARD CAPACITY EXPANSION PROJECT)
APPLICANT: BNSF RAILWAY CO.
WATERWAY: CALIFORNIA CREEK; TERRELL CREEK
BNSF LOCATION: NW DIVISION, CHERRY POINT SUBDIVISION, LS 418
LEGAL: IN PORTIONS OF SECTIONS 26, 27, 28, 32, 33, T40N, R1E, AND SECTIONS 5, 8, 17, T39N, R1E
COUNTY: WHATCOM STATE: WASHINGTON
LAT/LONG START: N48.9218°; W122.6478°
LAT/LONG END: N48.8702°; W122.7094°
DATE: 08\12\2011 SHEET OF



DETAIL AREA 18 SUMMARY:

WETLAND QQ OVERALL AREA: 0.54 AC
WETLAND S OVERALL AREA: 1.10 AC

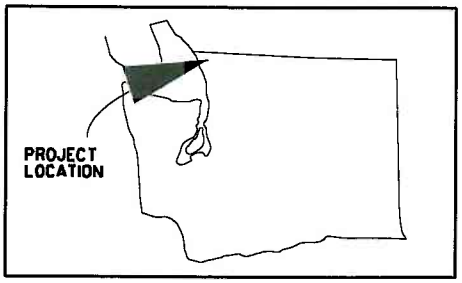
WETLAND QQ OVERALL IMPACTS: 0.15 AC
WETLAND S OVERALL IMPACTS: 0.11 AC

WETLAND QQ AREA THIS SHEET: 0.13 AC
WETLAND S AREA THIS SHEET: 0.23 AC

WETLAND QQ IMPACTS THIS SHEET: 0.02 AC
WETLAND S IMPACTS THIS SHEET: 0.04 AC

OVERALL IMPACTS THIS SHEET: 0.06 AC

DATA PLOT
WETLAND BOUNDARY
GRADING LIMIT BOUNDARY
ROW BOUNDARY
WETLAND EXTENDS BEYOND STUDY AREA
FLOW DIRECTION
WETLAND
WETLAND IMPACT

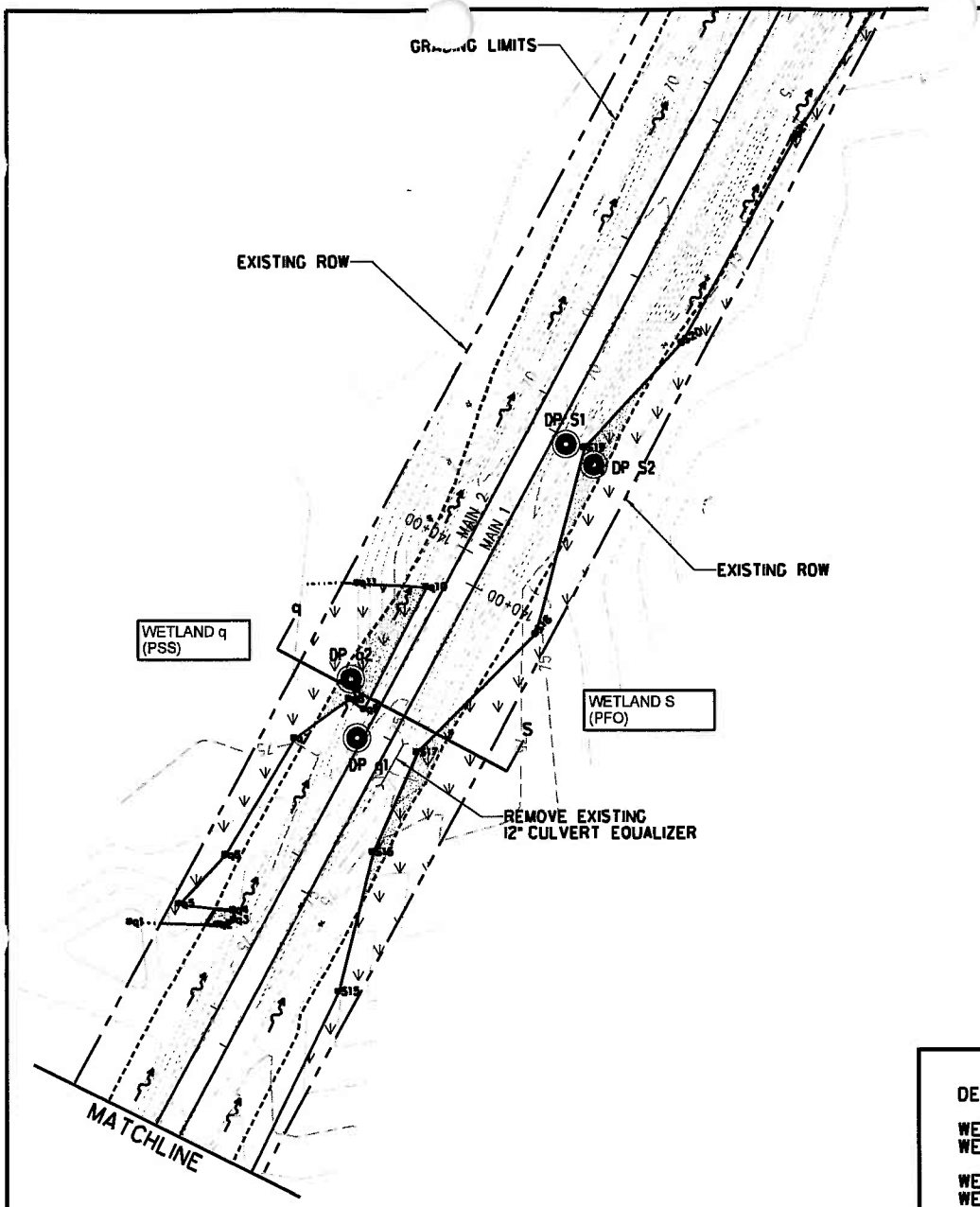


N

0 25 50 100
SCALE IN FEET

PROPOSED WORK IMPACTS
DETAIL AREA 18

USACE REF NO.:
PROJECT: CUSTER SPUR IMPROVEMENTS (INTALCO WYE TO ELLIOTT YARD CAPACITY EXPANSION PROJECT)
APPLICANT: BNSF RAILWAY CO.
WATERWAY: CALIFORNIA CREEK; TERRELL CREEK
BNSF LOCATION: NW DIVISION, CHERRY POINT SUBDIVISION, LS 418
LEGAL: IN PORTIONS OF SECTIONS 26, 27, 28, 32, 33, T40N, R1E, AND SECTIONS 5, 8, 17, T39N, R1E
COUNTY: WHATCOM STATE: WASHINGTON
LAT/LONG START: N48.9218°; W122.6478°
LAT/LONG END: N48.8702°; W122.7094°
DATE: 08\12\2011 SHEET OF



DETAIL AREA 19 SUMMARY:

WETLAND q OVERALL AREA: 0.14 AC
WETLAND S OVERALL AREA: 1.10 AC

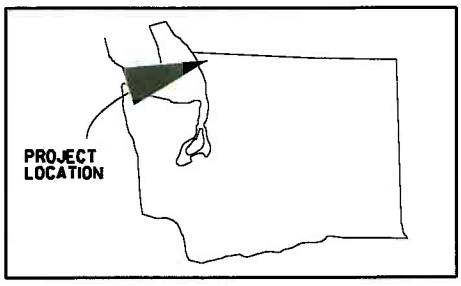
WETLAND q OVERALL IMPACTS: 0.03 AC
WETLAND S OVERALL IMPACTS: 0.11 AC

WETLAND q AREA THIS SHEET: 0.14 AC
WETLAND S AREA THIS SHEET: 0.31 AC

WETLAND q IMPACTS THIS SHEET: 0.03 AC
WETLAND S IMPACTS THIS SHEET: 0.04 AC

OVERALL IMPACTS THIS SHEET: 0.07 AC

DATA PLOT
WETLAND BOUNDARY
GRADING LIMIT BOUNDARY
ROW BOUNDARY
WETLAND EXTENDS BEYOND STUDY AREA
FLOW DIRECTION
WETLAND
WETLAND IMPACT



N

0 25 50 100
SCALE IN FEET

PROPOSED WORK IMPACTS
DETAIL AREA 19

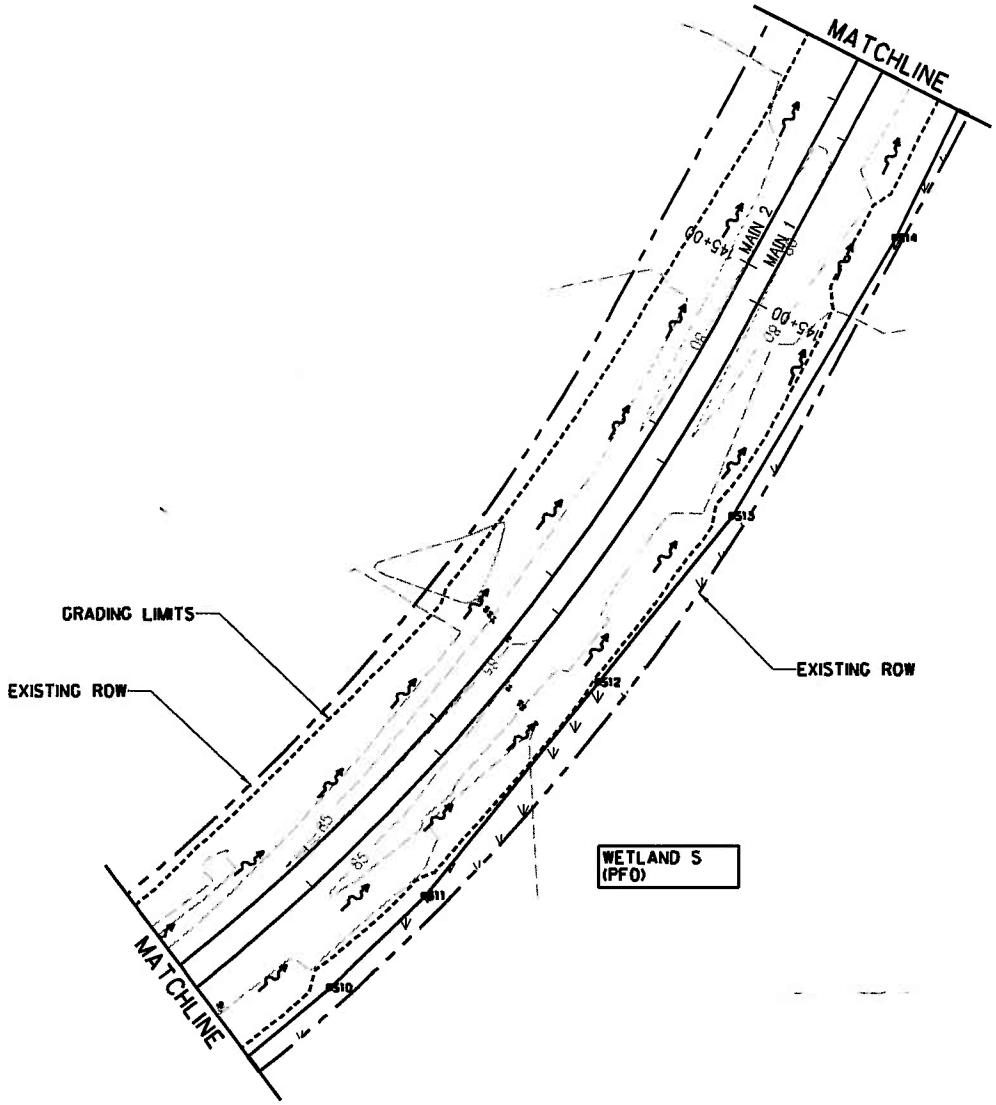
USACE REF NO.:
PROJECT: CUSTER SPUR IMPROVEMENTS (INTALCO WYE TO ELLIOTT YARD CAPACITY EXPANSION PROJECT)
APPLICANT: BNSF RAILWAY CO.
WATERWAY: CALIFORNIA CREEK; TERRELL CREEK
BNSF LOCATION: NW DIVISION, CHERRY POINT SUBDIVISION, LS 418
LEGAL: IN PORTIONS OF SECTIONS 26, 27, 28, 32, 33, T40N, R1E, AND SECTIONS 5, 8, 17, T39N, R1E
COUNTY: WHATCOM STATE: WASHINGTON
LAT/LONG START: N48.9218°; W122.6478°
LAT/LONG END: N48.8702°; W122.7094°
DATE: 08\12\2011 SHEET OF

DETAIL AREA 20 SUMMARY:

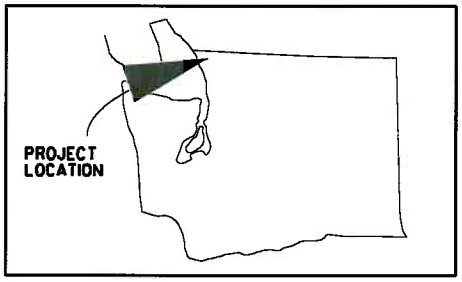
WETLAND S OVERALL AREA: 1.10 AC
WETLAND S OVERALL IMPACTS: 0.11 AC

WETLAND S AREA THIS SHEET: 0.15 AC
WETLAND S IMPACTS THIS SHEET: 0.00 AC

OVERALL IMPACTS THIS SHEET: 0.00 AC



DATA PLOT
WETLAND BOUNDARY
GRADING LIMIT BOUNDARY
ROW BOUNDARY
WETLAND EXTENDS BEYOND STUDY AREA
FLOW DIRECTION
WETLAND
WETLAND IMPACT



N

0 25 50 100
SCALE IN FEET

PROPOSED WORK IMPACTS
DETAIL AREA 20

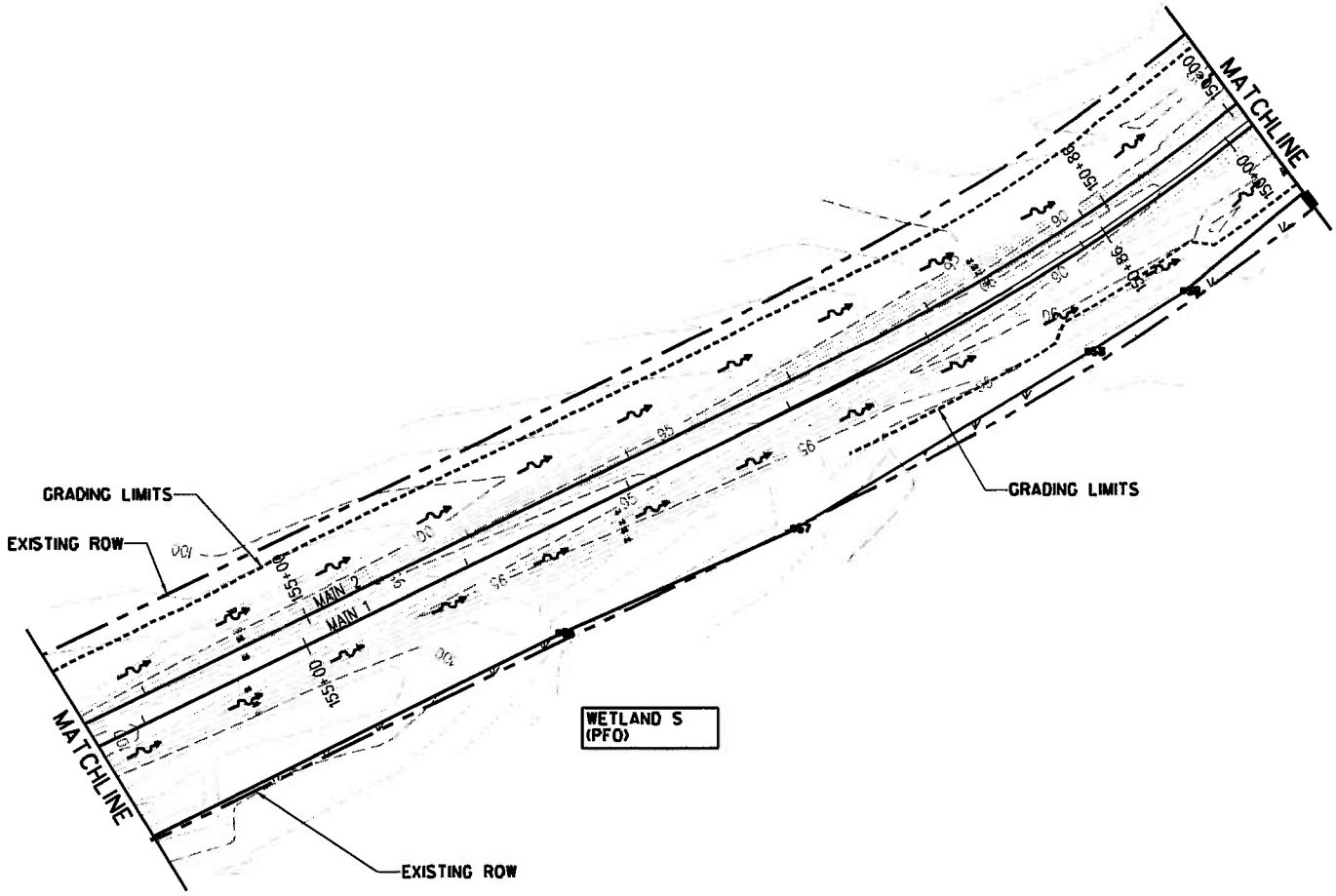
USACE REF NO.:
PROJECT: CUSTER SPUR IMPROVEMENTS (INTALCO WYE TO ELLIOTT YARD CAPACITY EXPANSION PROJECT)
APPLICANT: BNSF RAILWAY CO.
WATERWAY: CALIFORNIA CREEK; TERRELL CREEK
BNSF LOCATION: NW DIVISION, CHERRY POINT SUBDIVISION, LS 418
LEGAL: IN PORTIONS OF SECTIONS 26, 27, 28, 32, 33, T40N, R1E, AND SECTIONS 5, 8, 17, T39N, R1E
COUNTY: WHATCOM STATE: WASHINGTON
LAT/LONG START: N48.9218°; W122.6478°
LAT/LONG END: N48.8702°; W122.7094°
DATE: 08\12\2011 SHEET OF

DETAIL AREA 21 SUMMARY:

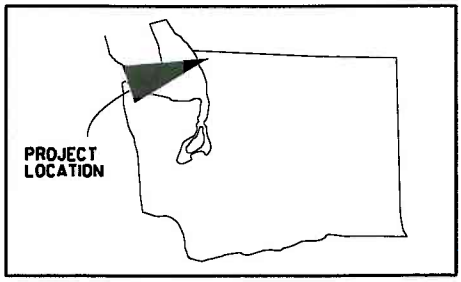
WETLAND S OVERALL AREA: 1.10 AC
WETLAND S OVERALL IMPACTS: 0.11 AC

WETLAND S AREA THIS SHEET: 0.07 AC
WETLAND S IMPACTS THIS SHEET: 0.00 AC

OVERALL IMPACTS THIS SHEET: 0.00 AC



DATA PLOT
WETLAND BOUNDARY
GRADING LIMIT BOUNDARY
ROW BOUNDARY
WETLAND EXTENDS BEYOND STUDY AREA
FLOW DIRECTION
WETLAND
WETLAND IMPACT

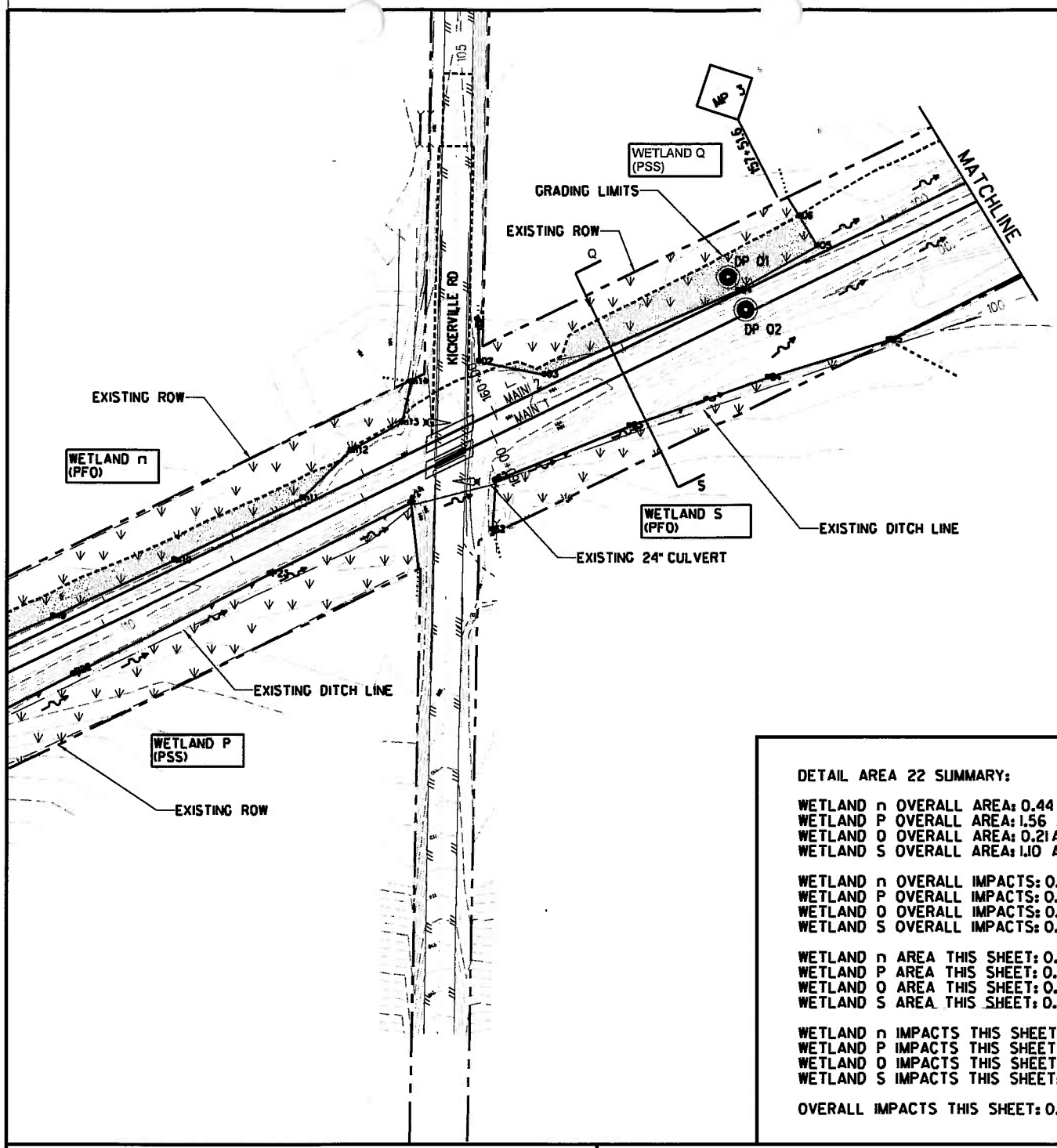


N

0 25 50 100
SCALE IN FEET

PROPOSED WORK IMPACTS
DETAIL AREA 21

USACE REF NO.:
PROJECT: CUSTER SPUR IMPROVEMENTS (INTALCO WYE TO ELLIOTT YARD CAPACITY EXPANSION PROJECT)
APPLICANT: BNSF RAILWAY CO.
WATERWAY: CALIFORNIA CREEK; TERRELL CREEK
BNSF LOCATION: NW DIVISION, CHERRY POINT SUBDIVISION, LS 418
LEGAL: IN PORTIONS OF SECTIONS 26, 27, 28, 32, 33, T40N, R1E, AND SECTIONS 5, 8, 17, T39N, R1E
COUNTY: WHATCOM STATE: WASHINGTON
LAT/LONG START: N48.9218°; W122.6478°
LAT/LONG END: N48.8702°; W122.7094°
DATE: 08\12\2011 SHEET OF



DETAIL AREA 22 SUMMARY:

WETLAND n OVERALL AREA: 0.44 AC
WETLAND P OVERALL AREA: 1.56 AC
WETLAND O OVERALL AREA: 0.21 AC
WETLAND S OVERALL AREA: 1.10 AC

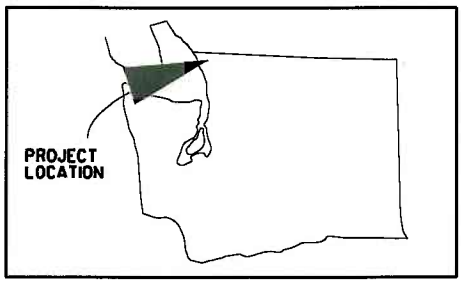
WETLAND n OVERALL IMPACTS: 0.16 AC
WETLAND P OVERALL IMPACTS: 0.00 AC
WETLAND O OVERALL IMPACTS: 0.10 AC
WETLAND S OVERALL IMPACTS: 0.11 AC

WETLAND n AREA THIS SHEET: 0.26 AC
WETLAND P AREA THIS SHEET: 0.30 AC
WETLAND O AREA THIS SHEET: 0.21 AC
WETLAND S AREA THIS SHEET: 0.13 AC

WETLAND n IMPACTS THIS SHEET: 0.08 AC
WETLAND P IMPACTS THIS SHEET: 0.00 AC
WETLAND O IMPACTS THIS SHEET: 0.10 AC
WETLAND S IMPACTS THIS SHEET: 0.00 AC

OVERALL IMPACTS THIS SHEET: 0.18 AC

DATA PLOT
WETLAND BOUNDARY
GRADING LIMIT BOUNDARY
ROW BOUNDARY
WETLAND EXTENDS BEYOND STUDY AREA
FLOW DIRECTION
WETLAND
WETLAND IMPACT



N

0 25 50 100
SCALE IN FEET

PROPOSED WORK IMPACTS
DETAIL AREA 22

USACE REF NO.:
PROJECT: CUSTER SPUR IMPROVEMENTS (INTALCO WYE TO ELLIOTT YARD CAPACITY EXPANSION PROJECT)
APPLICANT: BNSF RAILWAY CO.
WATERWAY: CALIFORNIA CREEK; TERRELL CREEK
BNSF LOCATION: NW DIVISION, CHERRY POINT SUBDIVISION, LS 418
LEGAL: IN PORTIONS OF SECTIONS 26, 27, 28, 32, 33, T40N, R1E, AND SECTIONS 5, 8, 17, T39N, R1E
COUNTY: WHATCOM STATE: WASHINGTON
LAT/LONG START: N48.9218°; W122.6478°
LAT/LONG END: N48.8702°; W122.7094°
DATE: 08\12\2011 SHEET OF

DETAIL AREA 23 SUMMARY:

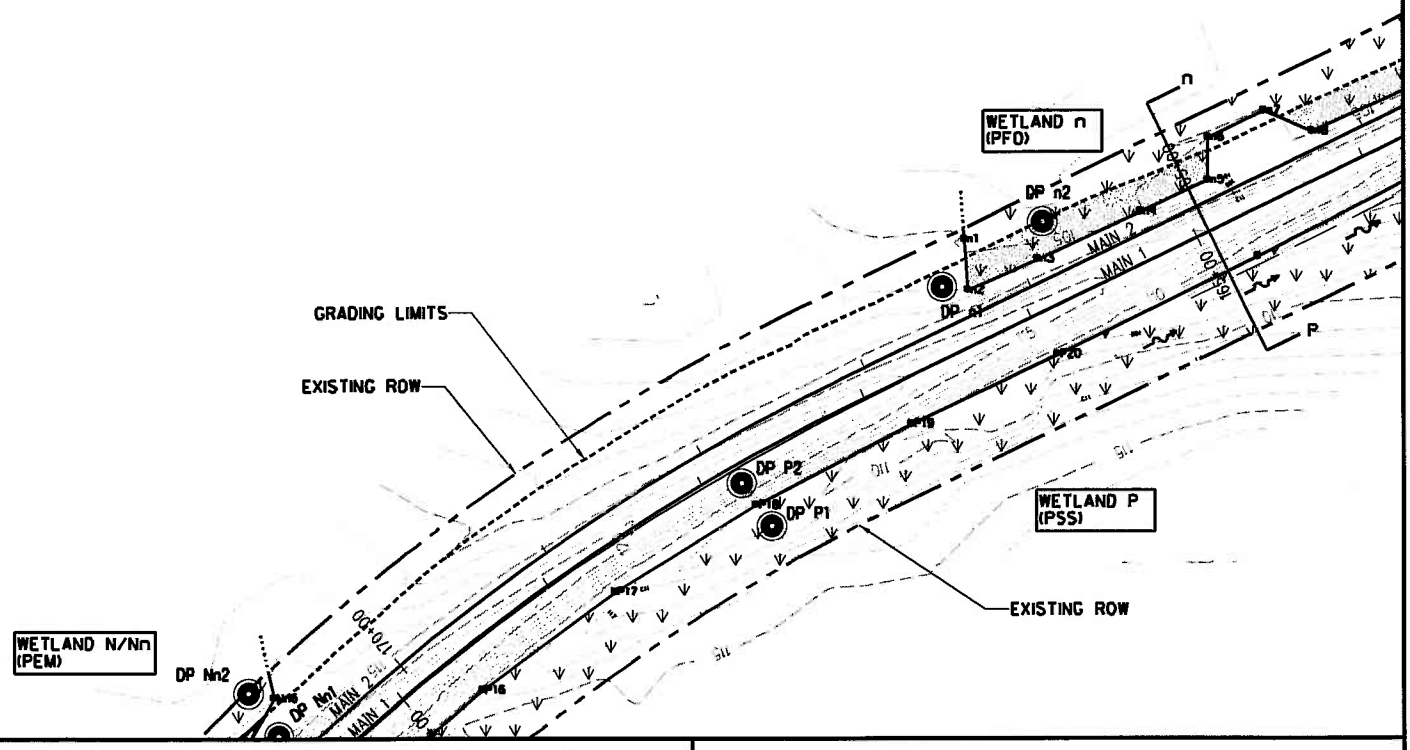
WETLAND n OVERALL AREA: 0.44 AC
WETLAND N/Nn OVERALL AREA: 0.25 AC
WETLAND P OVERALL AREA: 1.56 AC

WETLAND n OVERALL IMPACTS: 0.16 AC
WETLAND N/Nn OVERALL IMPACTS: 0.10 AC
WETLAND P OVERALL IMPACTS: 0.00 AC

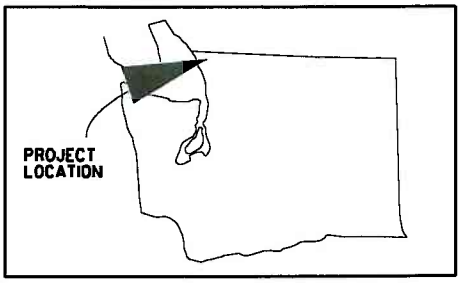
WETLAND n AREA THIS SHEET: 0.18 AC
WETLAND N/Nn AREA THIS SHEET: 0.02 AC
WETLAND P AREA THIS SHEET: 0.48 AC

WETLAND n IMPACTS THIS SHEET: 0.08 AC
WETLAND N/Nn IMPACTS THIS SHEET: 0.00 AC
WETLAND P IMPACTS THIS SHEET: 0.00 AC

OVERALL IMPACTS THIS SHEET: 0.08 AC



DATA PLOT
WETLAND BOUNDARY
GRADING LIMIT BOUNDARY
ROW BOUNDARY
WETLAND EXTENDS BEYOND STUDY AREA
FLOW DIRECTION
WETLAND
WETLAND IMPACT

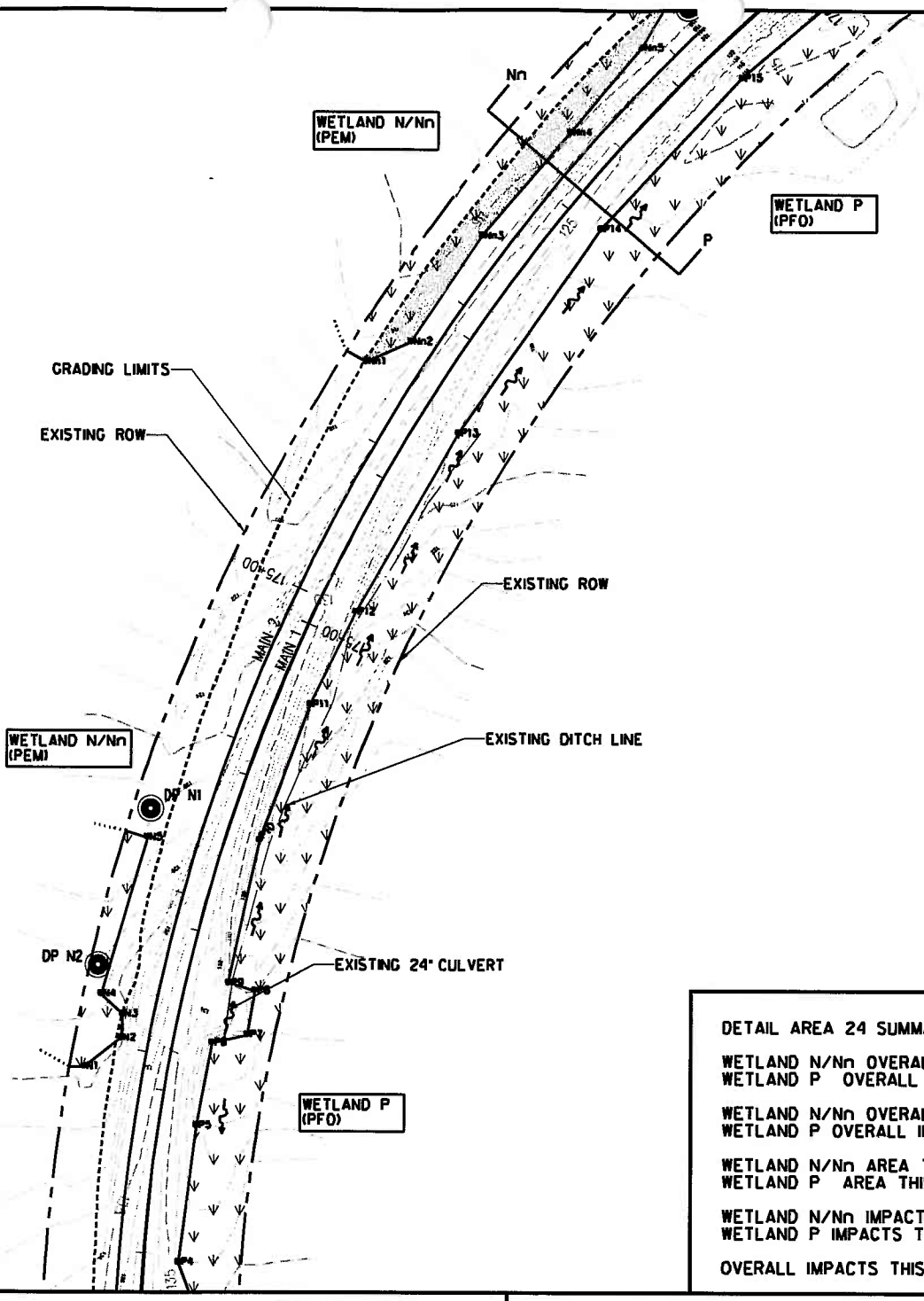


N

0 25 50 100
SCALE IN FEET

PROPOSED WORK IMPACTS
DETAIL AREA 23

USACE REF NO.:
PROJECT: CUSTER SPUR IMPROVEMENTS (INTALCO WYE TO ELLIOTT YARD CAPACITY EXPANSION PROJECT)
APPLICANT: BNSF RAILWAY CO.
WATERWAY: CALIFORNIA CREEK; TERRELL CREEK
BNSF LOCATION: NW DIVISION, CHERRY POINT SUBDIVISION, LS 418
LEGAL: IN PORTIONS OF SECTIONS 26, 27, 28, 32, 33, T40N, R1E, AND SECTIONS 5, 8, 17, T39N, R1E
COUNTY: WHATCOM STATE: WASHINGTON
LAT/LONG START: N48.9218°; W122.6478°
LAT/LONG END: N48.8702°; W122.7094°
DATE: 08\12\2011 SHEET OF



DETAIL AREA 24 SUMMARY:

WETLAND N/Nn OVERALL AREA: 0.25 AC
WETLAND P OVERALL AREA: 1.56 AC

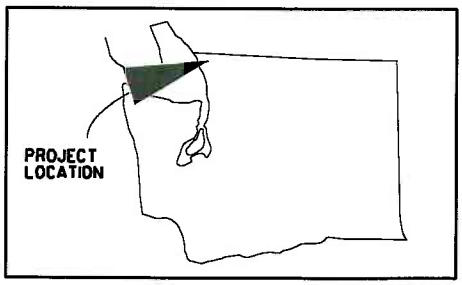
WETLAND N/Nn OVERALL IMPACTS: 0.10 AC
WETLAND P OVERALL IMPACTS: 0.00 AC

WETLAND N/Nn AREA THIS SHEET: 0.23 AC
WETLAND P AREA THIS SHEET: 0.73 AC

WETLAND N/Nn IMPACTS THIS SHEET: 0.10 AC
WETLAND P IMPACTS THIS SHEET: 0.00 AC

OVERALL IMPACTS THIS SHEET: 0.10 AC

DATA PLOT
WETLAND BOUNDARY
GRADING LIMIT BOUNDARY
ROW BOUNDARY
WETLAND EXTENDS BEYOND STUDY AREA
FLOW DIRECTION
WETLAND
WETLAND IMPACT

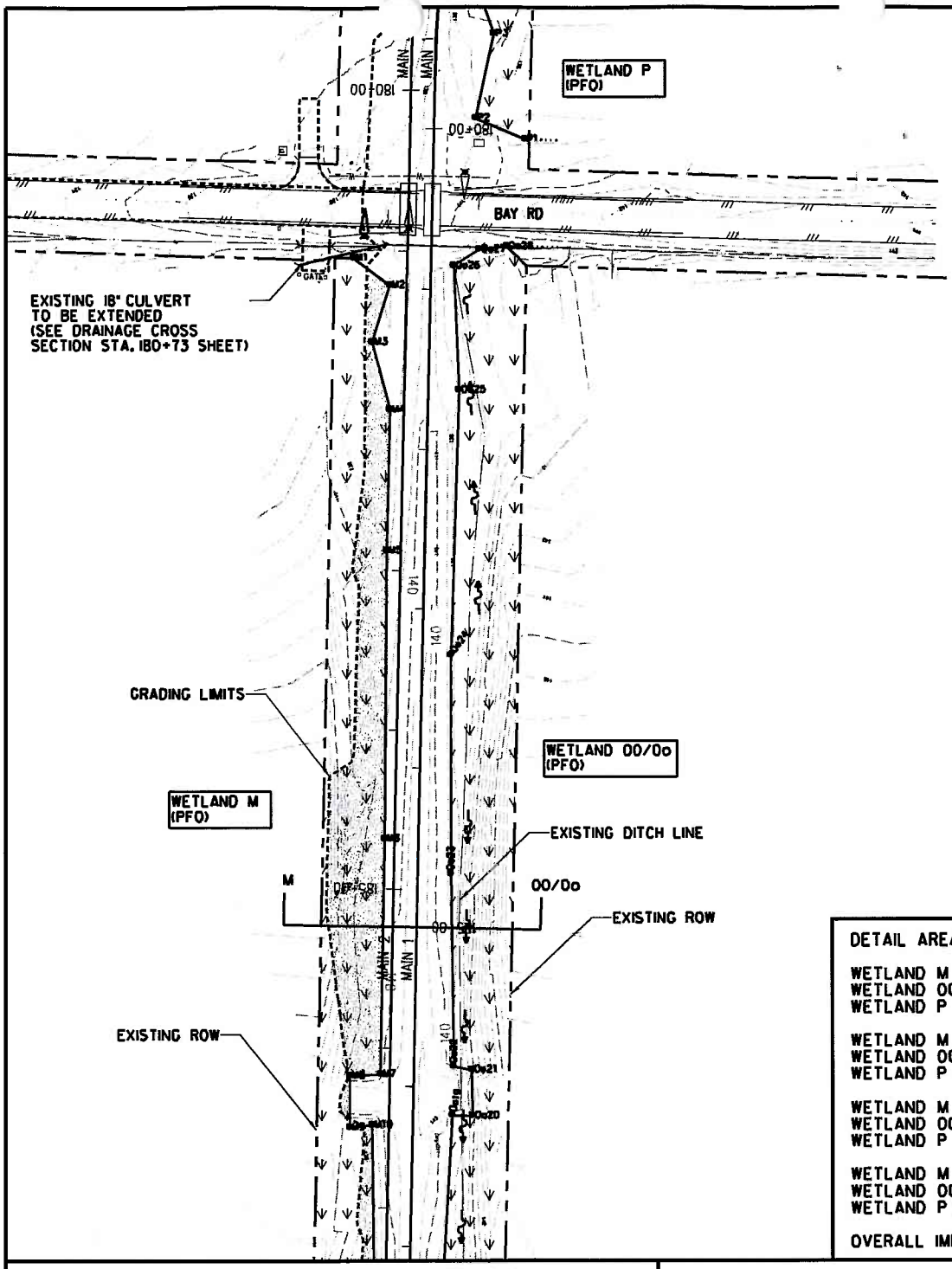


N

0 25 50 100
SCALE IN FEET

PROPOSED WORK IMPACTS
DETAIL AREA 24

USACE REF NO.:
PROJECT: CUSTER SPUR IMPROVEMENTS (INTALCO WYE TO ELLIOTT YARD CAPACITY EXPANSION PROJECT)
APPLICANT: BNSF RAILWAY CO.
WATERWAY: CALIFORNIA CREEK; TERRELL CREEK
BNSF LOCATION: NW DIVISION, CHERRY POINT SUBDIVISION, LS 418
LEGAL: IN PORTIONS OF SECTIONS 26, 27, 28, 32, 33, T40N, R1E, AND SECTIONS 5, 8, 17, T39N, R1E
COUNTY: WHATCOM STATE: WASHINGTON
LAT/LONG START: N48.9218°; W122.6478°
LAT/LONG END: N48.8702°; W122.7094°
DATE: 08\12\2011 SHEET OF



DETAIL AREA 25 SUMMARY:

WETLAND M OVERALL AREA: 1.31 AC
WETLAND 00/0o OVERALL AREA: 2.56 AC
WETLAND P OVERALL AREA: 1.56 AC

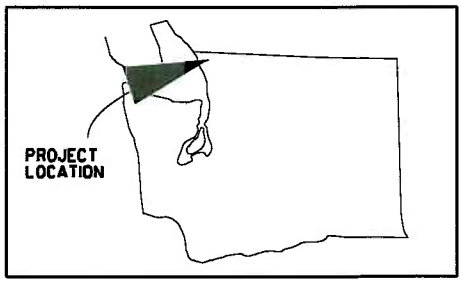
WETLAND M OVERALL IMPACTS: 0.67 AC
WETLAND 00/0o OVERALL IMPACTS: 0.03 AC
WETLAND P OVERALL IMPACTS: 0.00 AC

WETLAND M AREA THIS SHEET: 0.51 AC
WETLAND 00/0o AREA THIS SHEET: 0.57 AC
WETLAND P AREA THIS SHEET: 0.05 AC

WETLAND M IMPACTS THIS SHEET: 0.28 AC
WETLAND 00/0o IMPACTS THIS SHEET: 0.00 AC
WETLAND P IMPACTS THIS SHEET: 0.00 AC

OVERALL IMPACTS THIS SHEET: 0.28 AC

DATA PLOT
WETLAND BOUNDARY
GRADING LIMIT BOUNDARY
ROW BOUNDARY
WETLAND EXTENDS BEYOND STUDY AREA
FLOW DIRECTION
WETLAND
WETLAND IMPACT

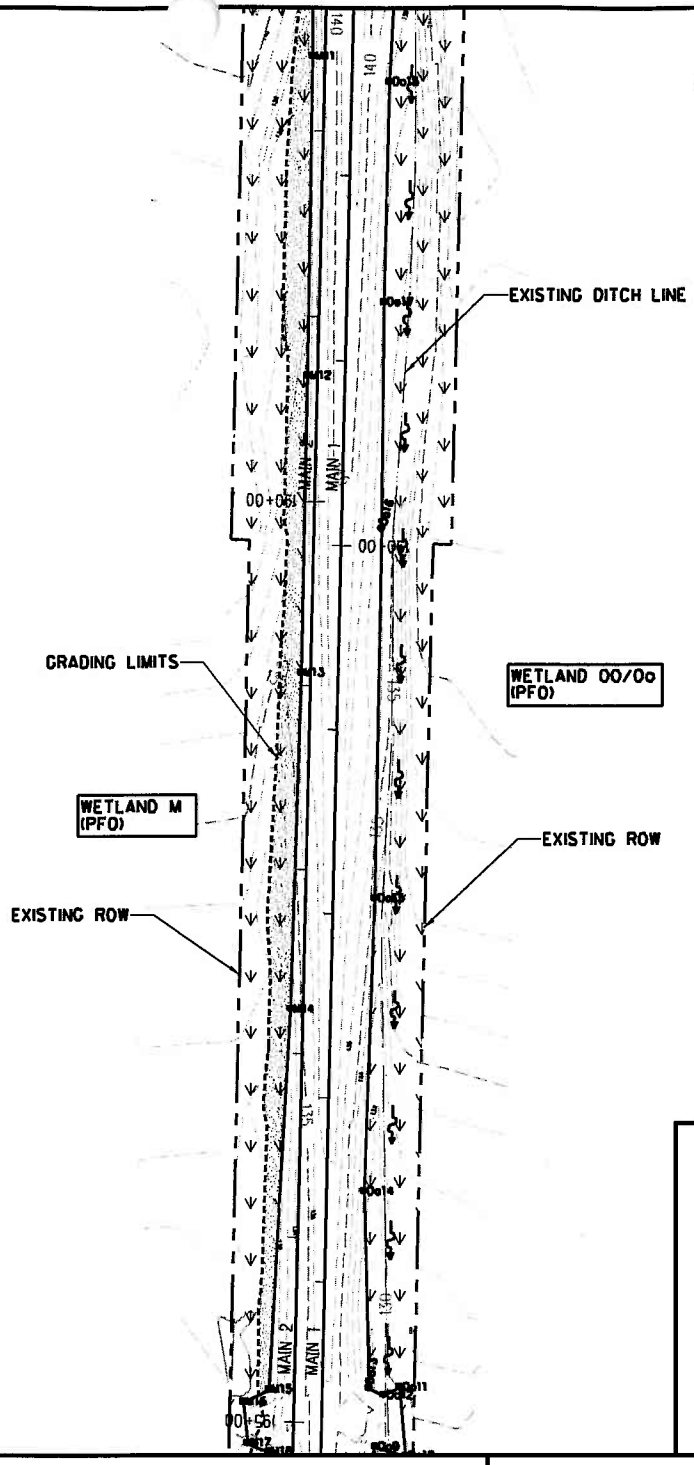


N

0 25 50 100
SCALE IN FEET

PROPOSED WORK IMPACTS DETAIL AREA 25

USACE REF NO.:
PROJECT: CUSTER SPUR IMPROVEMENTS (INTALCO WYE TO ELLIOTT YARD CAPACITY EXPANSION PROJECT)
APPLICANT: BNSF RAILWAY CO.
WATERWAY: CALIFORNIA CREEK; TERRELL CREEK
BNSF LOCATION: NW DIVISION, CHERRY POINT SUBDIVISION, LS 418
LEGAL: IN PORTIONS OF SECTIONS 26, 27, 28, 32, 33, T40N, R1E, AND SECTIONS 5, 8, 17, T39N, R1E
COUNTY: WHATCOM STATE: WASHINGTON
LAT/LONG START: N48.9218°; W122.6478°
LAT/LONG END: N48.8702°; W122.7094°
DATE: 08\12\2011 SHEET OF



DETAIL AREA 26 SUMMARY:

WETLAND M OVERALL AREA: 1.31 AC
WETLAND 00/0o OVERALL AREA: 2.56 AC

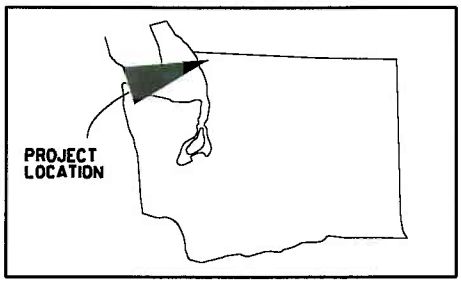
WETLAND M OVERALL IMPACTS: 0.67 AC
WETLAND 00/0o OVERALL IMPACTS: 0.03 AC

WETLAND M AREA THIS SHEET: 0.56 AC
WETLAND 00/0o AREA THIS SHEET: 0.56 AC

WETLAND M IMPACTS THIS SHEET: 0.19 AC
WETLAND 00/0o IMPACTS THIS SHEET: 0.00 AC

OVERALL IMPACTS THIS SHEET: 0.19 AC

DATA PLOT
WETLAND BOUNDARY
GRADING LIMIT BOUNDARY
ROW BOUNDARY
WETLAND EXTENDS BEYOND STUDY AREA
FLOW DIRECTION
WETLAND
WETLAND IMPACT

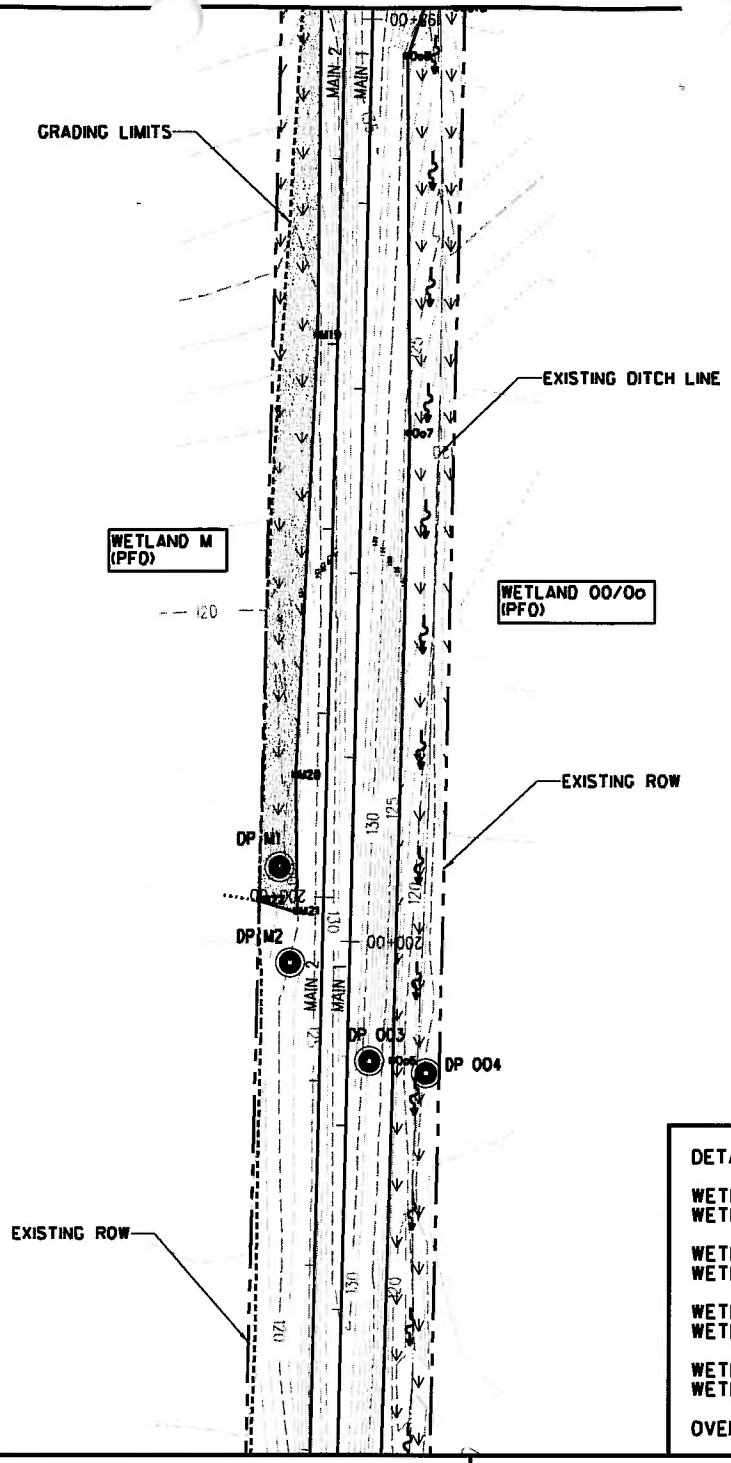


N

0 25 50 100
SCALE IN FEET

PROPOSED WORK IMPACTS
DETAIL AREA 26

USACE REF NO.:
PROJECT: CUSTER SPUR IMPROVEMENTS (INTALCO WYE TO ELLIOTT YARD CAPACITY EXPANSION PROJECT)
APPLICANT: BNSF RAILWAY CO.
WATERWAY: CALIFORNIA CREEK; TERRELL CREEK
BNSF LOCATION: NW DIVISION, CHERRY POINT SUBDIVISION, LS 418
LEGAL: IN PORTIONS OF SECTIONS 26, 27, 28, 32, 33, T40N, R1E, AND SECTIONS 5, 8, 17, T39N, R1E
COUNTY: WHATCOM STATE: WASHINGTON
LAT/LONG START: N48.9218°; W122.6478°
LAT/LONG END: N48.8702°; W122.7094°
DATE: 08\12\2011 SHEET OF



DETAIL AREA 27 SUMMARY:

WETLANDS M OVERALL AREA: 1.31 AC
WETLANS 00/0o OVERALL AREA: 2.56 AC

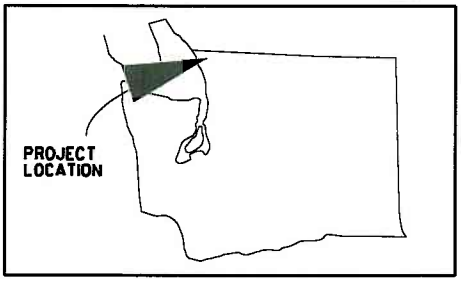
WETLANDS M OVERALL IMPACTS: 0.67 AC
WETLANS 00/0o OVERALL IMPACTS: 0.03 AC

WETLANDS M AREA THIS SHEET: 0.24 AC
WETLANS 00/0o AREA THIS SHEET: 0.47 AC

WETLANDS M IMPACTS THIS SHEET: 0.20 AC
WETLANS 00/0o IMPACTS THIS SHEET: 0.00 AC

OVERALL IMPACTS THIS SHEET: 0.20 AC

DATA PLOT
WETLAND BOUNDARY
GRADING LIMIT BOUNDARY
ROW BOUNDARY
WETLAND EXTENDS BEYOND STUDY AREA
FLOW DIRECTION
WETLAND
WETLAND IMPACT

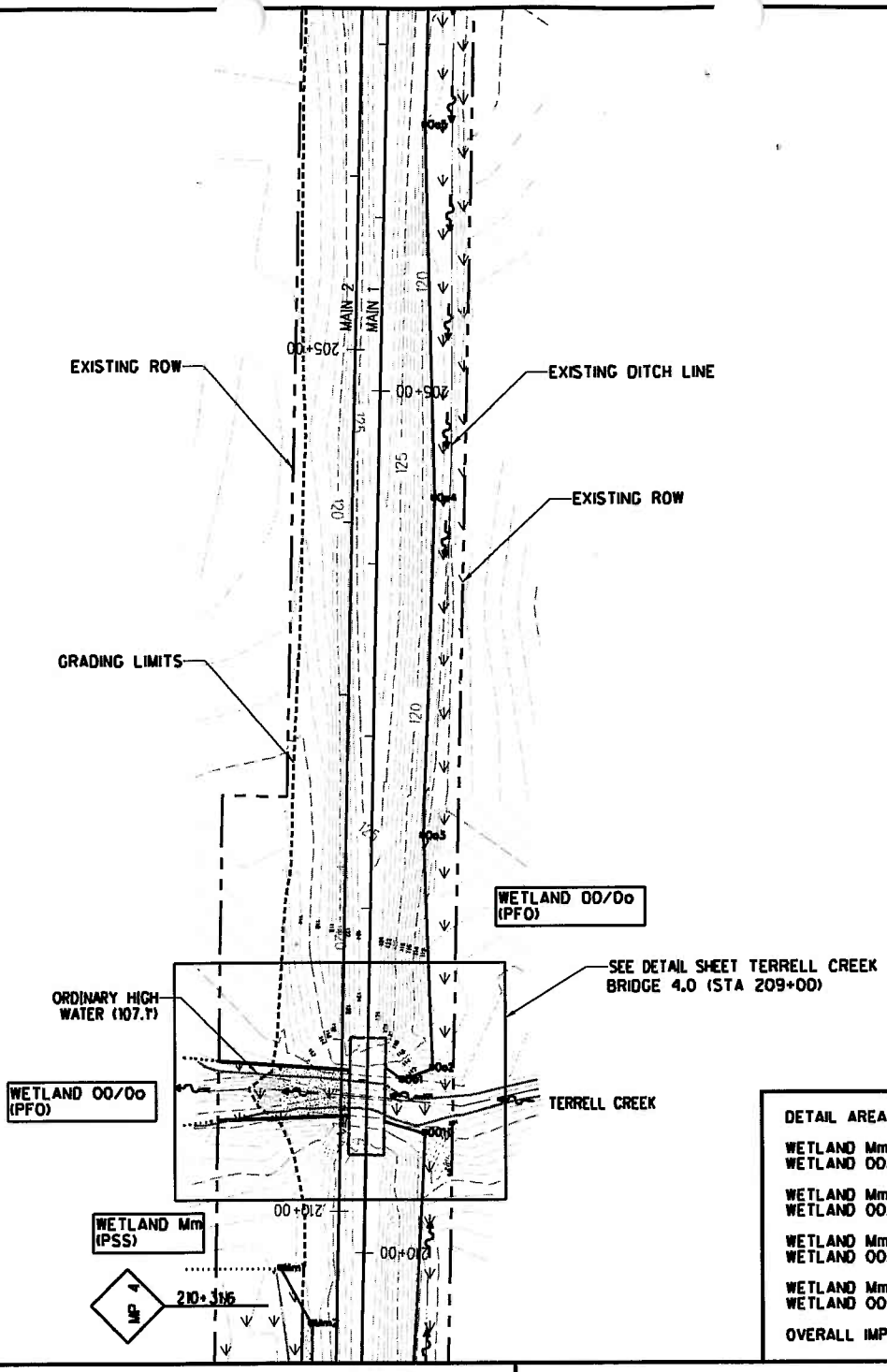


N

0 25 50 100
SCALE IN FEET

PROPOSED WORK IMPACTS
DETAIL AREA 27

USACE REF NO.:
PROJECT: CUSTER SPUR IMPROVEMENTS (INTALCO WYE TO ELLIOTT YARD CAPACITY EXPANSION PROJECT)
APPLICANT: BNSF RAILWAY CO.
WATERWAY: CALIFORNIA CREEK; TERRELL CREEK
BNSF LOCATION: NW DIVISION, CHERRY POINT SUBDIVISION, LS 418
LEGAL: IN PORTIONS OF SECTIONS 26, 27, 28, 32, 33, T40N, R1E, AND SECTIONS 5, 8, 17, T39N, R1E
COUNTY: WHATCOM STATE: WASHINGTON
LAT/LONG START: N48.9218°; W122.6478°
LAT/LONG END: N48.8702°; W122.7094°
DATE: 08\12\2011 SHEET OF



DETAIL AREA 28 SUMMARY:

WETLAND Mm OVERALL AREA: 0.56 AC
WETLAND OO/Oo OVERALL AREA: 2.56 AC

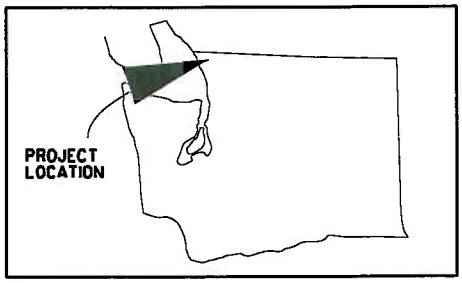
WETLAND Mm OVERALL IMPACTS: 0.02 AC
WETLAND OO/Oo OVERALL IMPACTS: 0.03 AC

WETLAND Mm AREA THIS SHEET: 0.06 AC
WETLAND OO/Oo AREA THIS SHEET: 0.44 AC

WETLAND Mm IMPACTS THIS SHEET: 0.00 AC
WETLAND OO/Oo IMPACTS THIS SHEET: 0.03 AC

OVERALL IMPACTS THIS SHEET: 0.03 AC

DATA PLOT
WETLAND BOUNDARY
GRADING LIMIT BOUNDARY
ROW BOUNDARY
WETLAND EXTENDS BEYOND STUDY AREA
FLOW DIRECTION
WETLAND
WETLAND IMPACT

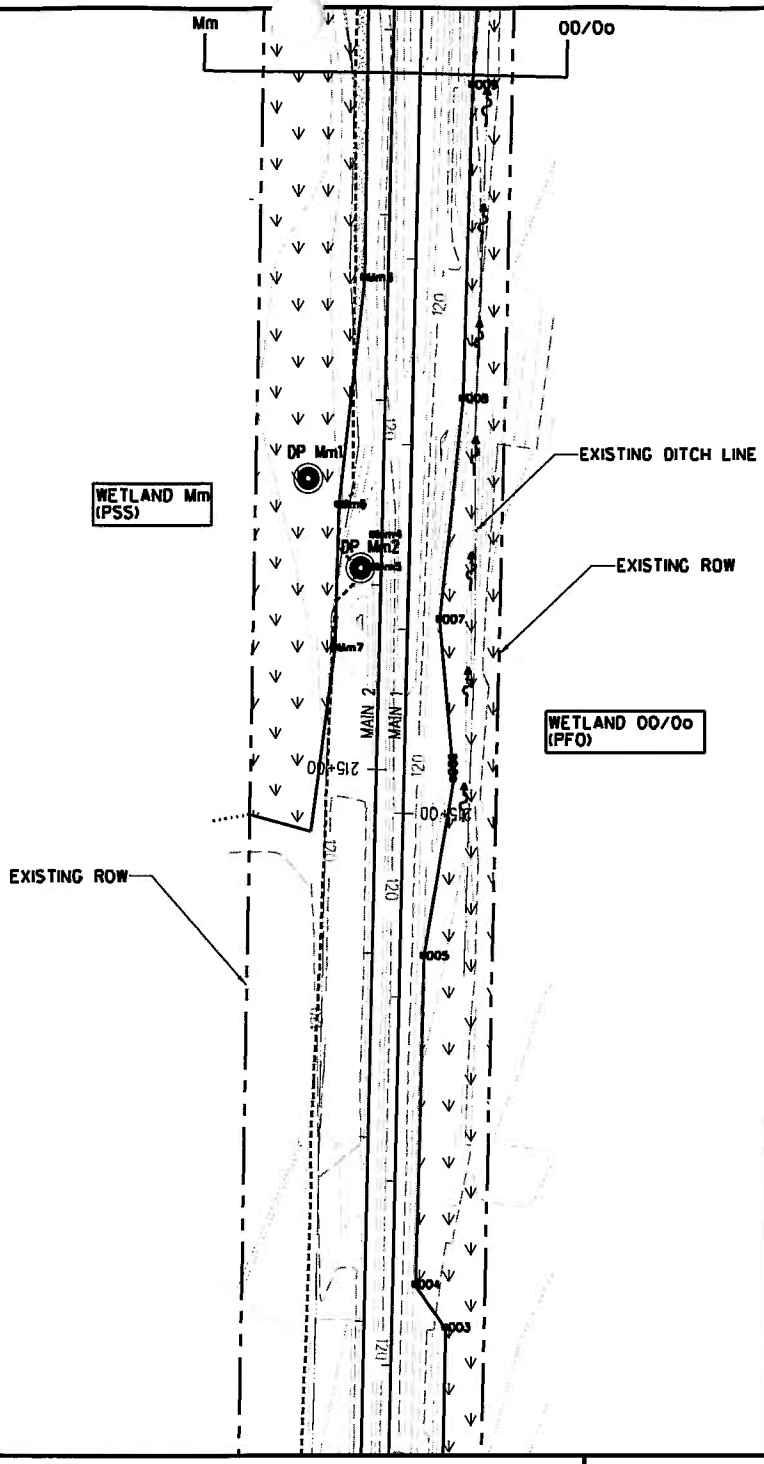


N

0 25 50 100
SCALE IN FEET

PROPOSED WORK IMPACTS DETAIL AREA 28

USACE REF NO.:
PROJECT: CUSTER SPUR IMPROVEMENTS (INTALCO WYE TO ELLIOTT YARD CAPACITY EXPANSION PROJECT)
APPLICANT: BNSF RAILWAY CO.
WATERWAY: CALIFORNIA CREEK; TERRELL CREEK
BNSF LOCATION: NW DIVISION, CHERRY POINT SUBDIVISION, LS 418
LEGAL: IN PORTIONS OF SECTIONS 26, 27, 28, 32, 33, T40N, R1E, AND SECTIONS 5, 8, 17, T39N, R1E
COUNTY: WHATCOM STATE: WASHINGTON
LAT/LONG START: N48.9218°; W122.6478°
LAT/LONG END: N48.8702°; W122.7094°
DATE: 08\12\2011 SHEET OF



DETAIL AREA 29 SUMMARY:

WETLAND Mm OVERALL AREA: 0.56 AC
WETLAND 00/Oo OVERALL AREA: 2.56 AC

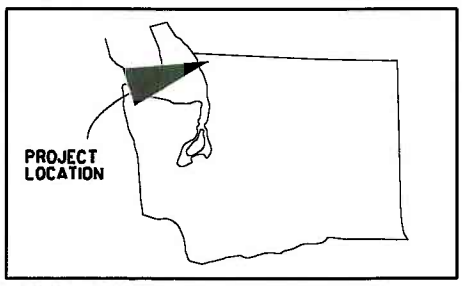
WETLAND Mm OVERALL IMPACTS: 0.02 AC
WETLAND 00/Oo OVERALL IMPACTS: 0.03 AC

WETLAND Mm AREA THIS SHEET: 0.50 AC
WETLAND 00/Oo AREA THIS SHEET: 0.50 AC

WETLAND Mm IMPACTS THIS SHEET: 0.02 AC
WETLAND 00/Oo IMPACTS THIS SHEET: 0.00 AC

OVERALL IMPACTS THIS SHEET: 0.02 AC

DATA PLOT
WETLAND BOUNDARY
GRADING LIMIT BOUNDARY
ROW BOUNDARY
WETLAND EXTENDS BEYOND STUDY AREA
FLOW DIRECTION
WETLAND
WETLAND IMPACT



N

0 25 50 100
SCALE IN FEET

PROPOSED WORK IMPACTS
DETAIL AREA 29

USACE REF NO.:
PROJECT: CUSTER SPUR IMPROVEMENTS (INTALCO WYE TO ELLIOTT YARD CAPACITY EXPANSION PROJECT)
APPLICANT: BNSF RAILWAY CO.
WATERWAY: CALIFORNIA CREEK; TERRELL CREEK
BNSF LOCATION: NW DIVISION, CHERRY POINT SUBDIVISION, LS 418
LEGAL: IN PORTIONS OF SECTIONS 26, 27, 28, 32, 33, T40N, R1E, AND SECTIONS 5, 8, 17, T39N, R1E
COUNTY: WHATCOM STATE: WASHINGTON
LAT/LONG START: N48.9218°; W122.6478°
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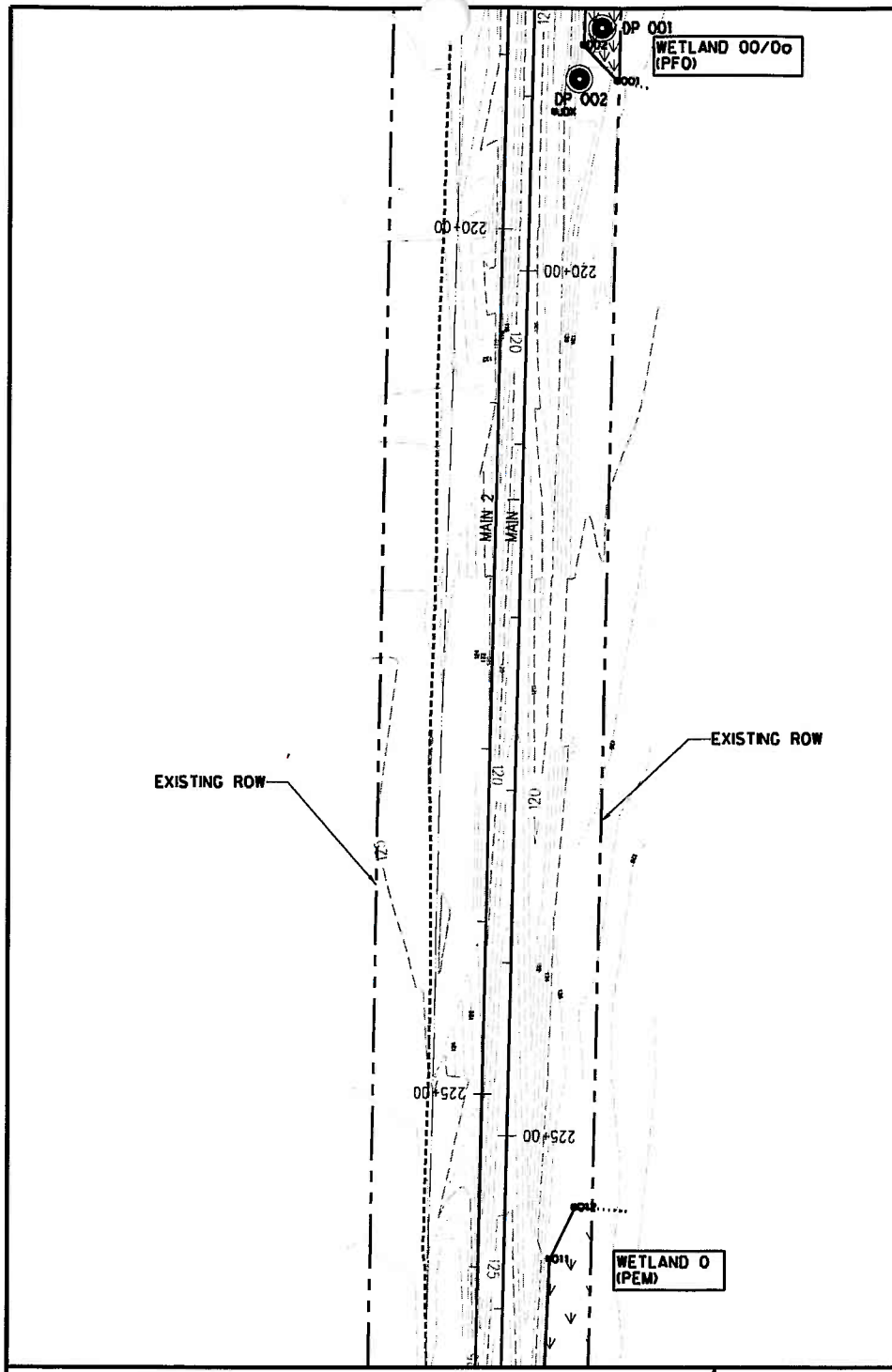
DATE: 08\12\2011 SHEET OF



DETAIL AREA 30 SUMMARY:

WETLAND 0 OVERALL AREA: 0.36 AC
WETLAND 00/0o OVERALL AREA: 2.56 AC

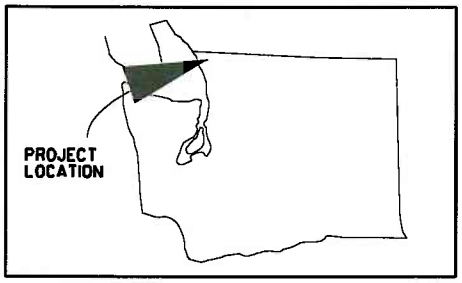
WETLAND 0 OVERALL IMPACTS: 0.00 AC
WETLAND 00/0o OVERALL IMPACTS: 0.03 AC

WETLAND 0 AREA THIS SHEET: 0.05 AC
WETLAND 00/0o AREA THIS SHEET: 0.02 AC

WETLAND 0 IMPACTS THIS SHEET: 0.00 AC
WETLAND 00/0o IMPACTS THIS SHEET: 0.00 AC

OVERALL IMPACTS THIS SHEET: 0.00 AC

DATA PLOT
WETLAND BOUNDARY
GRADING LIMIT BOUNDARY
ROW BOUNDARY
WETLAND EXTENDS BEYOND STUDY AREA
FLOW DIRECTION
WETLAND
WETLAND IMPACT



N

0 25 50 100
SCALE IN FEET

PROPOSED WORK IMPACTS
DETAIL AREA 30

USACE REF NO.:
PROJECT: CUSTER SPUR IMPROVEMENTS (INTALCO WYE TO ELLIOTT YARD CAPACITY EXPANSION PROJECT)
APPLICANT: BNSF RAILWAY CO.
WATERWAY: CALIFORNIA CREEK; TERRELL CREEK
BNSF LOCATION: NW DIVISION, CHERRY POINT SUBDIVISION, LS 418
LEGAL: IN PORTIONS OF SECTIONS 26, 27, 28, 32, 33, T40N, R1E, AND SECTIONS 5, 8, 17, T39N, R1E
COUNTY: WHATCOM STATE: WASHINGTON
LAT/LONG START: N48.9218°; W122.6478°
LAT/LONG END: N48.8702°; W122.7094°
DATE: 08\12\2011 SHEET OF

DETAIL AREA 31 SUMMARY:

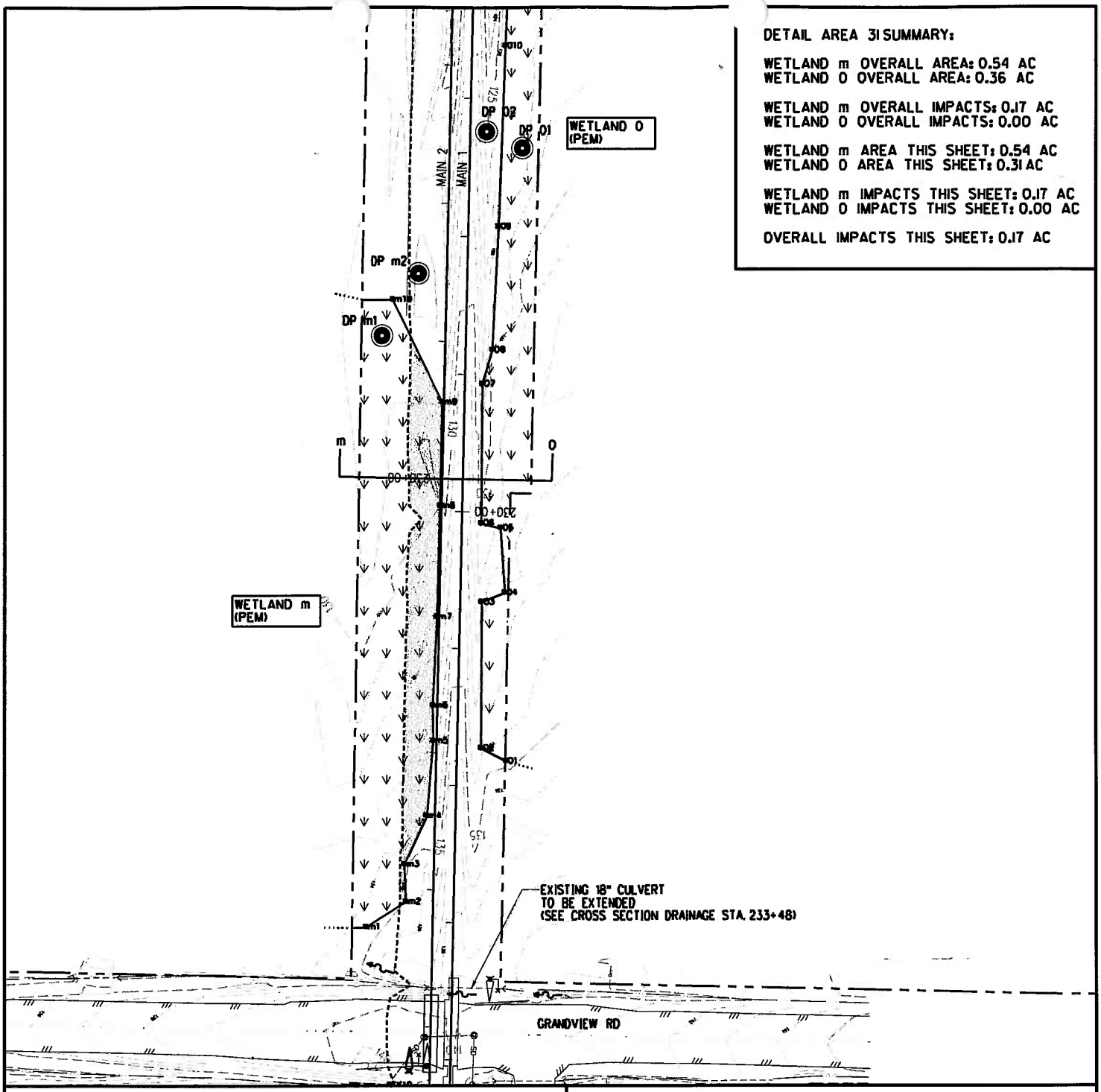
WETLAND m OVERALL AREA: 0.54 AC
WETLAND O OVERALL AREA: 0.36 AC

WETLAND m OVERALL IMPACTS: 0.17 AC
WETLAND O OVERALL IMPACTS: 0.00 AC

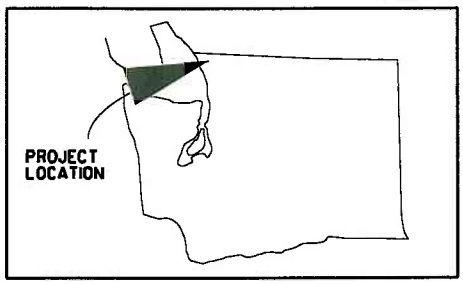
WETLAND m AREA THIS SHEET: 0.54 AC
WETLAND O AREA THIS SHEET: 0.31 AC

WETLAND m IMPACTS THIS SHEET: 0.17 AC
WETLAND O IMPACTS THIS SHEET: 0.00 AC

OVERALL IMPACTS THIS SHEET: 0.17 AC



DATA PLOT
WETLAND BOUNDARY
GRADING LIMIT BOUNDARY
ROW BOUNDARY
WETLAND EXTENDS BEYOND STUDY AREA
FLOW DIRECTION
WETLAND
WETLAND IMPACT



N

0 25 50 100
SCALE IN FEET

PROPOSED WORK IMPACTS
DETAIL AREA 31

USACE REF NO.:
PROJECT: CUSTER SPUR IMPROVEMENTS (INTALCO WYE TO ELLIOTT YARD CAPACITY EXPANSION PROJECT)
APPLICANT: BNSF RAILWAY CO.
WATERWAY: CALIFORNIA CREEK; TERRELL CREEK
BNSF LOCATION: NW DIVISION, CHERRY POINT SUBDIVISION, LS 418
LEGAL: IN PORTIONS OF SECTIONS 26, 27, 28, 32, 33, T40N, R1E, AND SECTIONS 5, 8, 17, T39N, R1E
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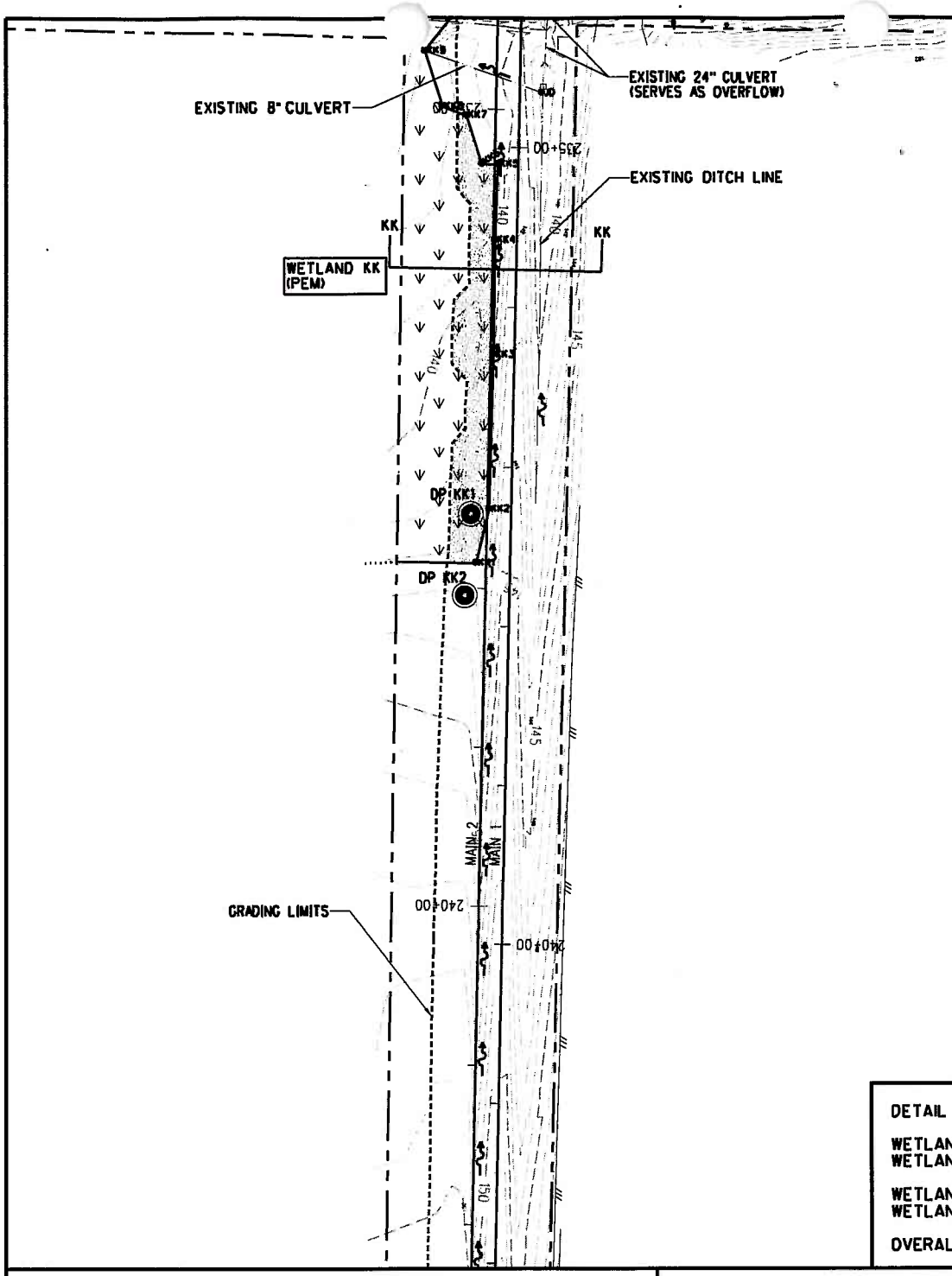
DATE: 08\12\2011 SHEET OF



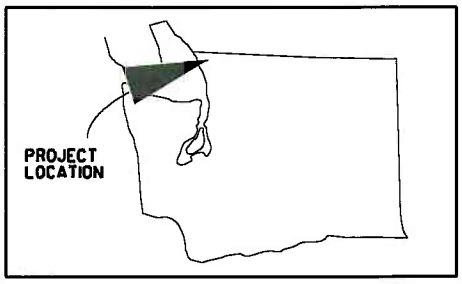
DETAIL AREA 32 SUMMARY:

WETLAND KK OVERALL AREA: 0.39 AC
WETLAND KK OVERALL IMPACTS: 0.13 AC

WETLAND KK AREA THIS SHEET: 0.39 AC
WETLAND KK IMPACTS THIS SHEET: 0.13 AC

OVERALL IMPACTS THIS SHEET: 0.13 AC

DATA PLOT
WETLAND BOUNDARY
GRADING LIMIT BOUNDARY
ROW BOUNDARY
WETLAND EXTENDS BEYOND STUDY AREA
FLOW DIRECTION
WETLAND
WETLAND IMPACT

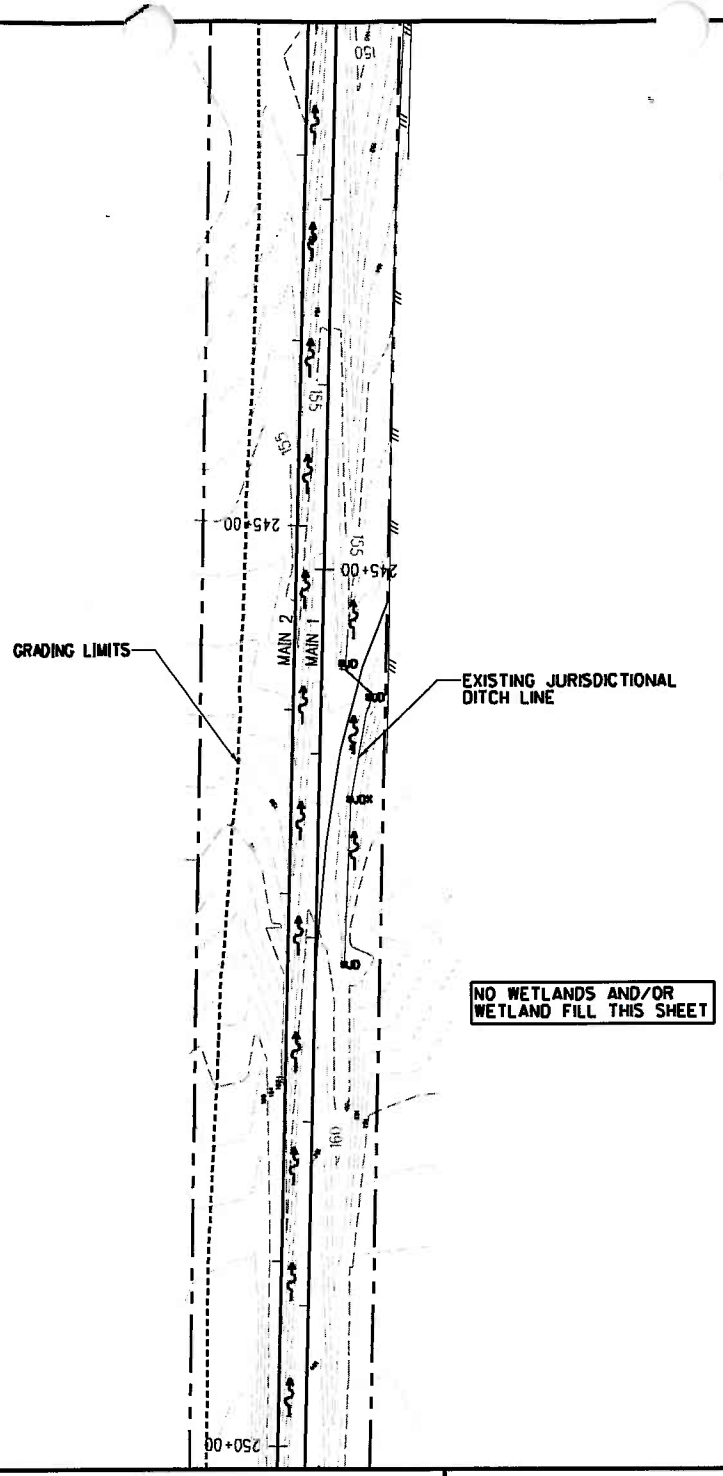


N

0 25 50 100
SCALE IN FEET

PROPOSED WORK IMPACTS
DETAIL AREA 32

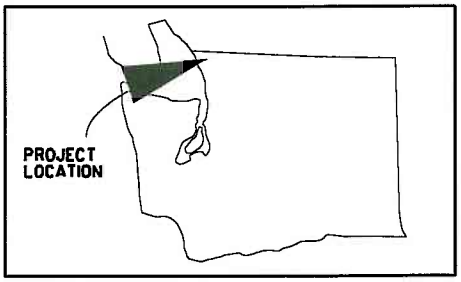
USACE REF NO.:
PROJECT: CUSTER SPUR IMPROVEMENTS (INTALCO WYE TO ELLIOTT YARD CAPACITY EXPANSION PROJECT)
APPLICANT: BNSF RAILWAY CO.
WATERWAY: CALIFORNIA CREEK; TERRELL CREEK
BNSF LOCATION: NW DIVISION, CHERRY POINT SUBDIVISION, LS 418
LEGAL: IN PORTIONS OF SECTIONS 26, 27, 28, 32, 33, T40N, R1E, AND SECTIONS 5, 8, 17, T39N, R1E
COUNTY: WHATCOM STATE: WASHINGTON
LAT/LONG START: N48.9218°; W122.6478°
LAT/LONG END: N48.8702°; W122.7094°
DATE: 08\12\2011 SHEET OF



NO WETLANDS AND/OR WETLAND FILL THIS SHEET

DETAIL AREA 33 SUMMARY:
NO WETLANDS THIS SHEET

DATA PLOT
WETLAND BOUNDARY
GRADING LIMIT BOUNDARY
ROW BOUNDARY
WETLAND EXTENDS BEYOND STUDY AREA
FLOW DIRECTION
WETLAND
WETLAND IMPACT

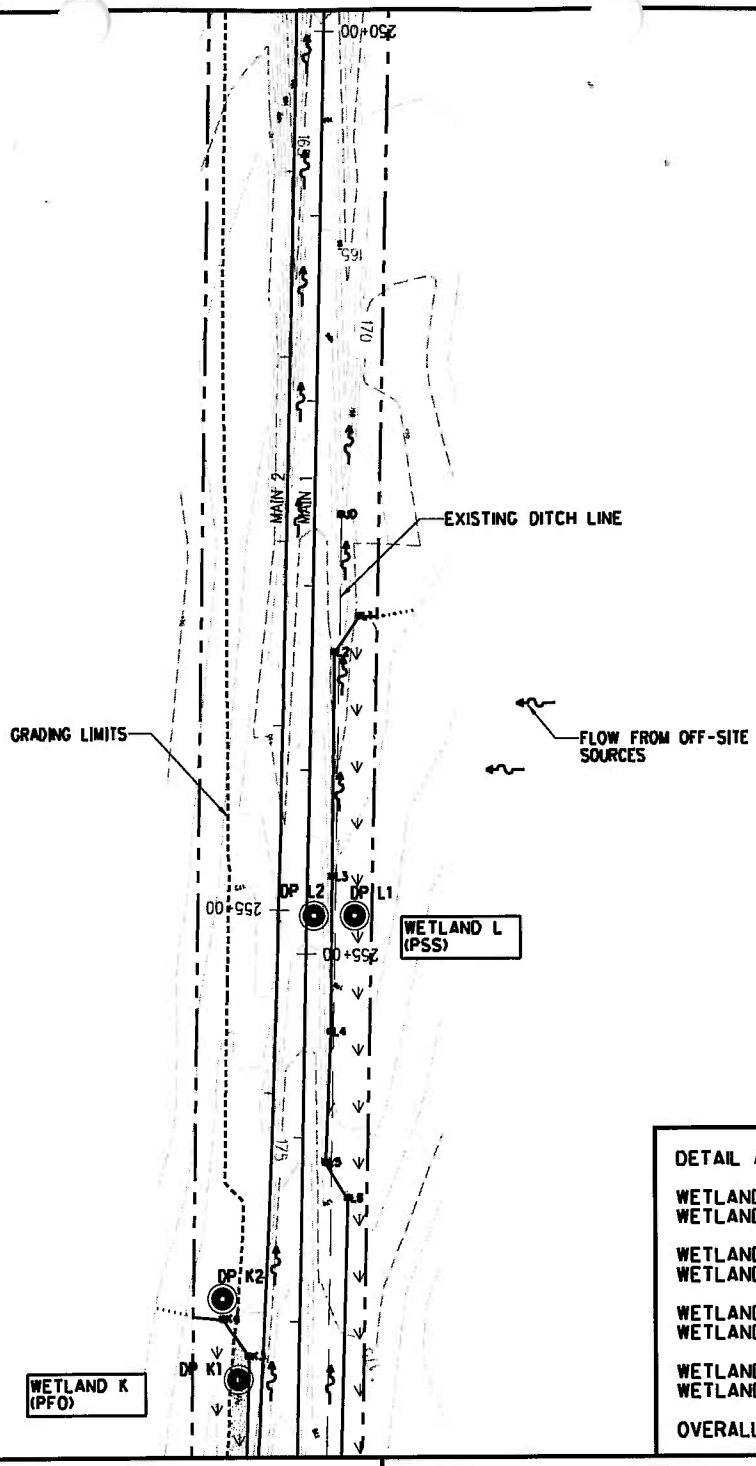


N

0 25 50 100
SCALE IN FEET

PROPOSED WORK IMPACTS
DETAIL AREA 33

USACE REF NO.:
PROJECT: CUSTER SPUR IMPROVEMENTS (INTALCO WYE TO ELLIOTT YARD CAPACITY EXPANSION PROJECT)
APPLICANT: BNSF RAILWAY CO.
WATERWAY: CALIFORNIA CREEK; TERRELL CREEK
BNSF LOCATION: NW DIVISION, CHERRY POINT SUBDIVISION, LS 418
LEGAL: IN PORTIONS OF SECTIONS 26, 27, 28, 32, 33, T40N, R1E, AND SECTIONS 5, 8, 17, T39N, R1E
COUNTY: WHATCOM STATE: WASHINGTON
LAT/LONG START: N48.9218°; W122.6478°
LAT/LONG END: N48.8702°; W122.7094°
DATE: 08\12\2011 SHEET OF



DETAIL AREA 34 SUMMARY:

WETLAND K OVERALL AREA: 0.10 AC
WETLAND L OVERALL AREA: 0.22 AC

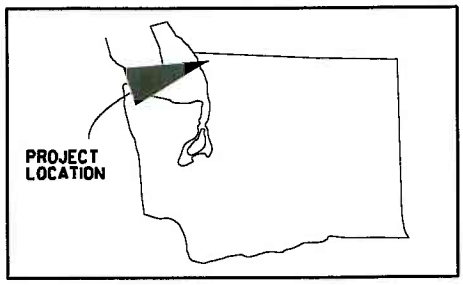
WETLAND K OVERALL IMPACTS: 0.03 AC
WETLAND L OVERALL IMPACTS: 0.00 AC

WETLAND K AREA THIS SHEET: 0.05 AC
WETLAND L AREA THIS SHEET: 0.19 AC

WETLAND K IMPACTS: 0.01 AC
WETLAND L IMPACTS: 0.00 AC

OVERALL IMPACTS THIS SHEET: 0.01 AC

DATA PLOT
WETLAND BOUNDARY
GRADING LIMIT BOUNDARY
ROW BOUNDARY
WETLAND EXTENDS BEYOND STUDY AREA
FLOW DIRECTION
WETLAND
WETLAND IMPACT

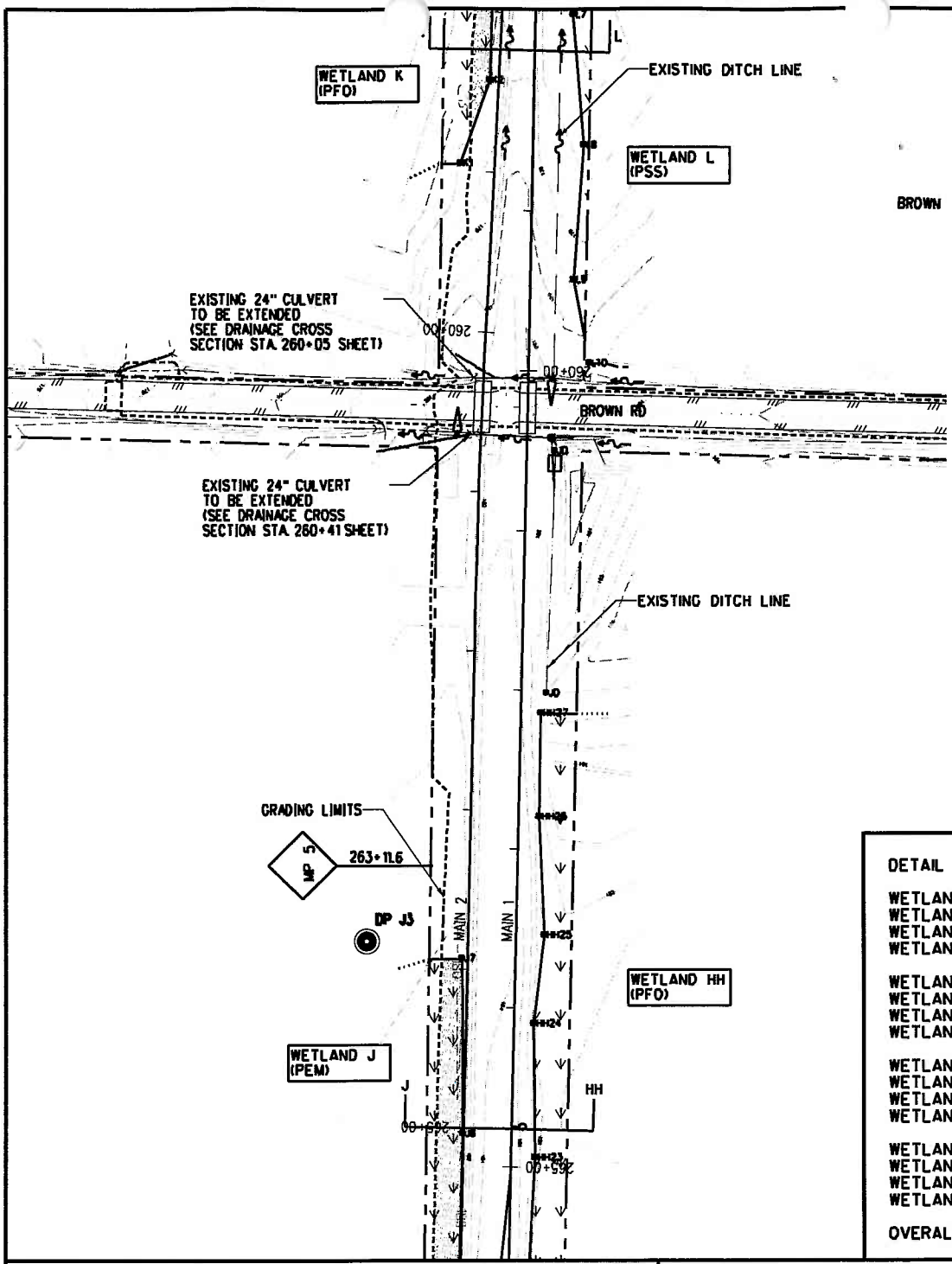


N

0 25 50 100
SCALE IN FEET

PROPOSED WORK IMPACTS
DETAIL AREA 34

USACE REF NO.:
PROJECT: CUSTER SPUR IMPROVEMENTS (INTALCO WYE TO ELLIOTT YARD CAPACITY EXPANSION PROJECT)
APPLICANT: BNSF RAILWAY CO.
WATERWAY: CALIFORNIA CREEK; TERRELL CREEK
BNSF LOCATION: NW DIVISION, CHERRY POINT SUBDIVISION, LS 418
LEGAL: IN PORTIONS OF SECTIONS 26, 27, 28, 32, 33, T40N, R1E, AND SECTIONS 5, 8, 17, T39N, R1E
COUNTY: WHATCOM STATE: WASHINGTON
LAT/LONG START: N48.9218°; W122.6478°
LAT/LONG END: N48.8702°; W122.7094°
DATE: 08\12\2011 SHEET OF



DETAIL AREA 35 SUMMARY:

WETLAND HH OVERALL AREA: 0.99 AC
WETLAND J OVERALL AREA: 0.60 AC
WETLAND K OVERALL AREA: 0.10 AC
WETLAND L OVERALL AREA: 0.22 AC

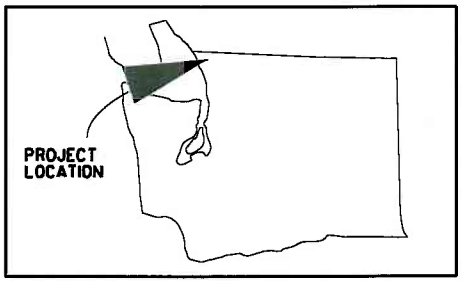
WETLAND HH OVERALL IMPACTS: 0.00 AC
WETLAND J OVERALL IMPACTS: 0.38 AC
WETLAND K OVERALL IMPACTS: 0.03 AC
WETLAND L OVERALL IMPACTS: 0.00 AC

WETLAND HH AREA THIS SHEET: 0.16 AC
WETLAND J AREA THIS SHEET: 0.10 AC
WETLAND K AREA THIS SHEET: 0.05 AC
WETLAND L AREA THIS SHEET: 0.03 AC

WETLAND HH IMPACTS THIS SHEET: 0.00 AC
WETLAND J IMPACTS THIS SHEET: 0.06 AC
WETLAND K IMPACTS THIS SHEET: 0.02 AC
WETLAND L IMPACTS THIS SHEET: 0.00 AC

OVERALL IMPACTS THIS SHEET: 0.08 AC

DATA PLOT
WETLAND BOUNDARY
GRADING LIMIT BOUNDARY
ROW BOUNDARY
WETLAND EXTENDS BEYOND STUDY AREA
FLOW DIRECTION
WETLAND
WETLAND IMPACT

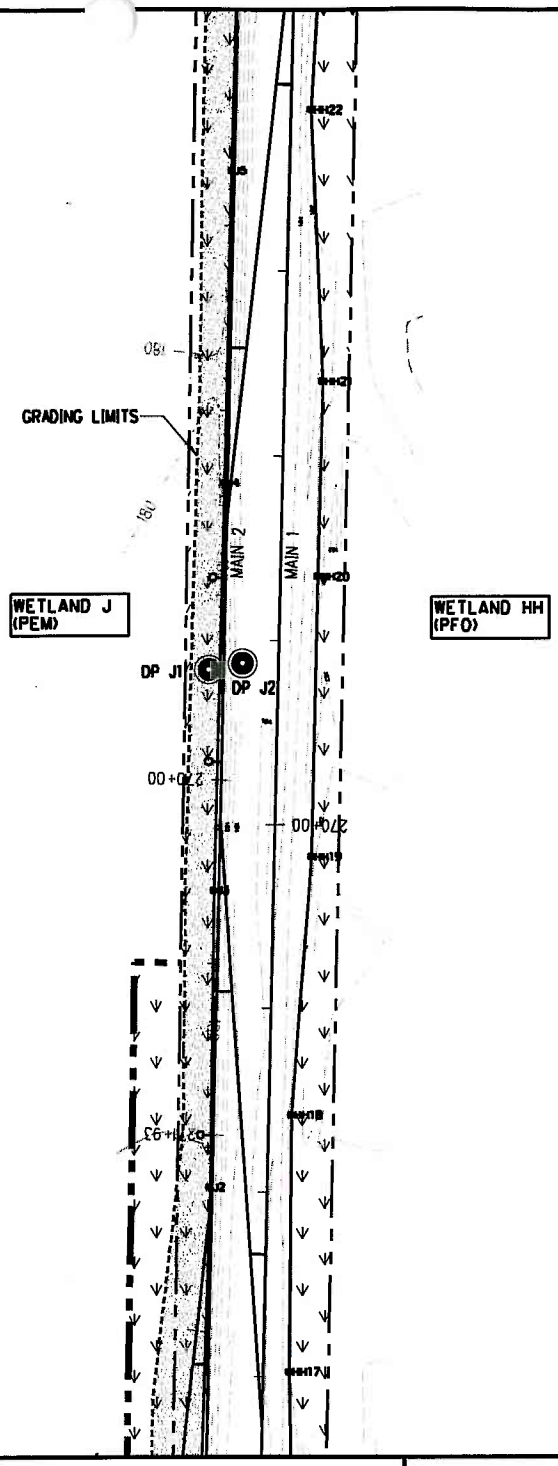


N

0 25 50 100
SCALE IN FEET

PROPOSED WORK IMPACTS
DETAIL AREA 35

USACE REF NO.:
PROJECT: CUSTER SPUR IMPROVEMENTS (INTALCO WYE TO ELLIOTT YARD CAPACITY EXPANSION PROJECT)
APPLICANT: BNSF RAILWAY CO.
WATERWAY: CALIFORNIA CREEK; TERRELL CREEK
BNSF LOCATION: NW DIVISION, CHERRY POINT SUBDIVISION, LS 418
LEGAL: IN PORTIONS OF SECTIONS 26, 27, 28, 32, 33, T40N, R1E, AND SECTIONS 5, 8, 17, T39N, R1E
COUNTY: WHATCOM STATE: WASHINGTON
LAT/LONG START: N48.9218°; W122.6478°
LAT/LONG END: N48.8702°; W122.7094°
DATE: 08\12\2011 SHEET OF



DETAIL AREA 36 SUMMARY:

WETLAND HH OVERALL AREA: 0.99 AC
WETLAND J OVERALL AREA: 0.60 AC

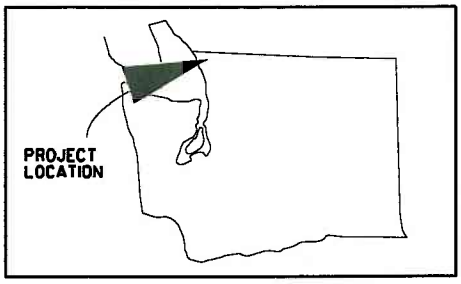
WETLAND HH OVERALL IMPACTS: 0.00 AC
WETLAND J OVERALL IMPACTS: 0.38 AC

WETLAND HH AREA THIS SHEET: 0.33 AC
WETLAND J AREA THIS SHEET: 0.49 AC

WETLAND HH IMPACTS THIS SHEET: 0.00 AC
WETLAND J IMPACTS THIS SHEET: 0.31 AC

OVERALL IMPACTS THIS SHEET: 0.31 AC

DATA PLOT
WETLAND BOUNDARY
GRADING LIMIT BOUNDARY
ROW BOUNDARY
WETLAND EXTENDS BEYOND STUDY AREA
FLOW DIRECTION
WETLAND
WETLAND IMPACT

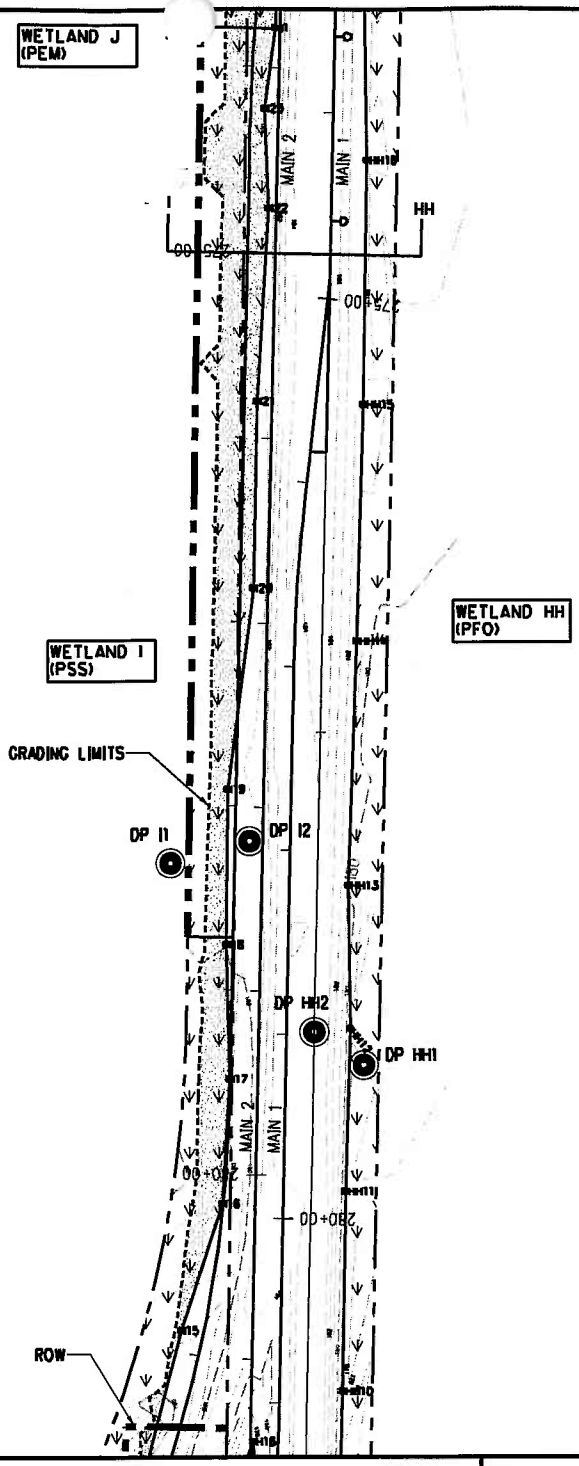


N

0 25 50 100
SCALE IN FEET

PROPOSED WORK IMPACTS
DETAIL AREA 36

USACE REF NO.:
PROJECT: CUSTER SPUR IMPROVEMENTS (INTALCO WYE TO ELLIOTT YARD CAPACITY EXPANSION PROJECT)
APPLICANT: BNSF RAILWAY CO.
WATERWAY: CALIFORNIA CREEK; TERRELL CREEK
BNSF LOCATION: NW DIVISION, CHERRY POINT SUBDIVISION, LS 418
LEGAL: IN PORTIONS OF SECTIONS 26, 27, 28, 32, 33, T40N, R1E, AND SECTIONS 5, 8, 17, T39N, R1E
COUNTY: WHATCOM STATE: WASHINGTON
LAT/LONG START: N48.9218°; W122.6478°
LAT/LONG END: N48.8702°; W122.7094°
DATE: 08\12\2011 SHEET OF



DETAIL AREA 37 SUMMARY:

WETLAND HH OVERALL AREA: 0.99 AC
WETLAND I OVERALL AREA: 0.98 AC
WETLAND J OVERALL AREA: 0.60 AC

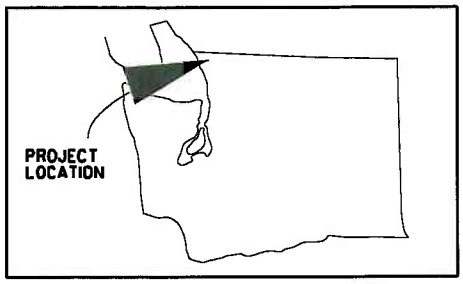
WETLAND HH OVERALL IMPACTS: 0.00 AC
WETLAND I OVERALL IMPACTS: 0.37 AC
WETLAND J OVERALL IMPACTS: 0.38 AC

WETLAND HH AREA THIS SHEET: 0.30 AC
WETLAND I AREA THIS SHEET: 0.51 AC
WETLAND J AREA THIS SHEET: 0.01 AC

WETLAND HH IMPACTS THIS SHEET: 0.00 AC
WETLAND I IMPACTS THIS SHEET: 0.30 AC
WETLAND J IMPACTS THIS SHEET: 0.01 AC

OVERALL IMPACTS THIS SHEET: 0.31 AC

DATA PLOT
WETLAND BOUNDARY
GRADING LIMIT BOUNDARY
ROW BOUNDARY
WETLAND EXTENDS BEYOND STUDY AREA
FLOW DIRECTION
WETLAND
WETLAND IMPACT



N

0 25 50 100
SCALE IN FEET

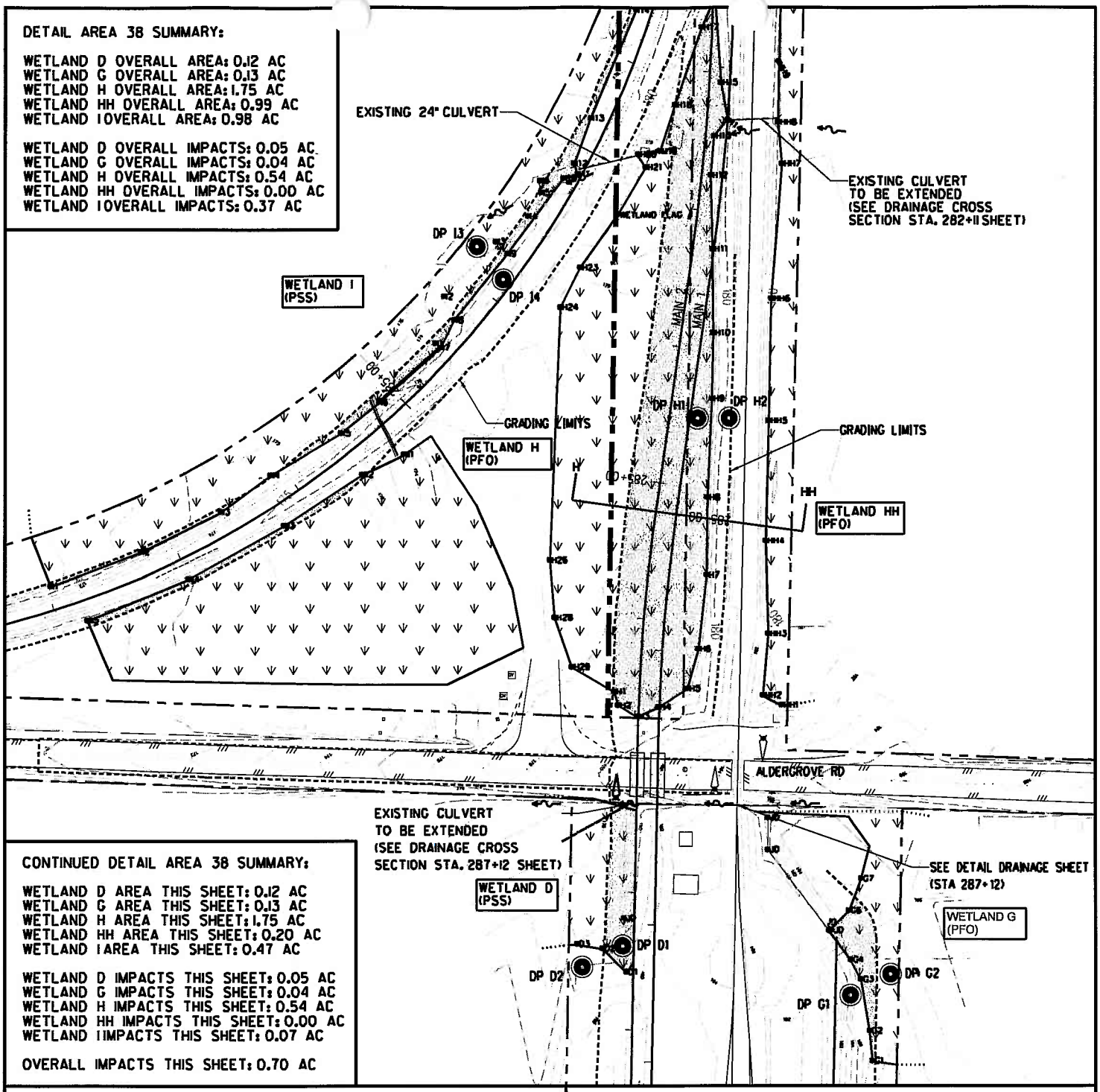
PROPOSED WORK IMPACTS
DETAIL AREA 37

USACE REF NO.:
PROJECT: CUSTER SPUR IMPROVEMENTS (INTALCO WYE TO ELLIOTT YARD CAPACITY EXPANSION PROJECT)
APPLICANT: BNSF RAILWAY CO.
WATERWAY: CALIFORNIA CREEK; TERRELL CREEK
BNSF LOCATION: NW DIVISION, CHERRY POINT SUBDIVISION, LS 418
LEGAL: IN PORTIONS OF SECTIONS 26, 27, 28, 32, 33, T40N, R1E, AND SECTIONS 5, 8, 17, T39N, R1E
COUNTY: WHATCOM STATE: WASHINGTON
LAT/LONG START: N48.9218°; W122.6478°
LAT/LONG END: N48.8702°; W122.7094°
DATE: 08\12\2011 SHEET OF

DETAIL AREA 38 SUMMARY:

WETLAND D OVERALL AREA: 0.12 AC
WETLAND G OVERALL AREA: 0.13 AC
WETLAND H OVERALL AREA: 1.75 AC
WETLAND HH OVERALL AREA: 0.99 AC
WETLAND I OVERALL AREA: 0.98 AC

WETLAND D OVERALL IMPACTS: 0.05 AC
WETLAND G OVERALL IMPACTS: 0.04 AC
WETLAND H OVERALL IMPACTS: 0.54 AC
WETLAND HH OVERALL IMPACTS: 0.00 AC
WETLAND I OVERALL IMPACTS: 0.37 AC



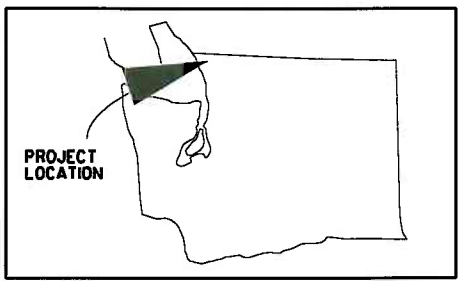
CONTINUED DETAIL AREA 38 SUMMARY:

WETLAND D AREA THIS SHEET: 0.12 AC
WETLAND G AREA THIS SHEET: 0.13 AC
WETLAND H AREA THIS SHEET: 1.75 AC
WETLAND HH AREA THIS SHEET: 0.20 AC
WETLAND I AREA THIS SHEET: 0.47 AC

WETLAND D IMPACTS THIS SHEET: 0.05 AC
WETLAND G IMPACTS THIS SHEET: 0.04 AC
WETLAND H IMPACTS THIS SHEET: 0.54 AC
WETLAND HH IMPACTS THIS SHEET: 0.00 AC
WETLAND I IMPACTS THIS SHEET: 0.07 AC

OVERALL IMPACTS THIS SHEET: 0.70 AC

DATA PLOT
WETLAND BOUNDARY
GRADING LIMIT BOUNDARY
ROW BOUNDARY
WETLAND EXTENDS BEYOND STUDY AREA
FLOW DIRECTION
WETLAND
WETLAND IMPACT

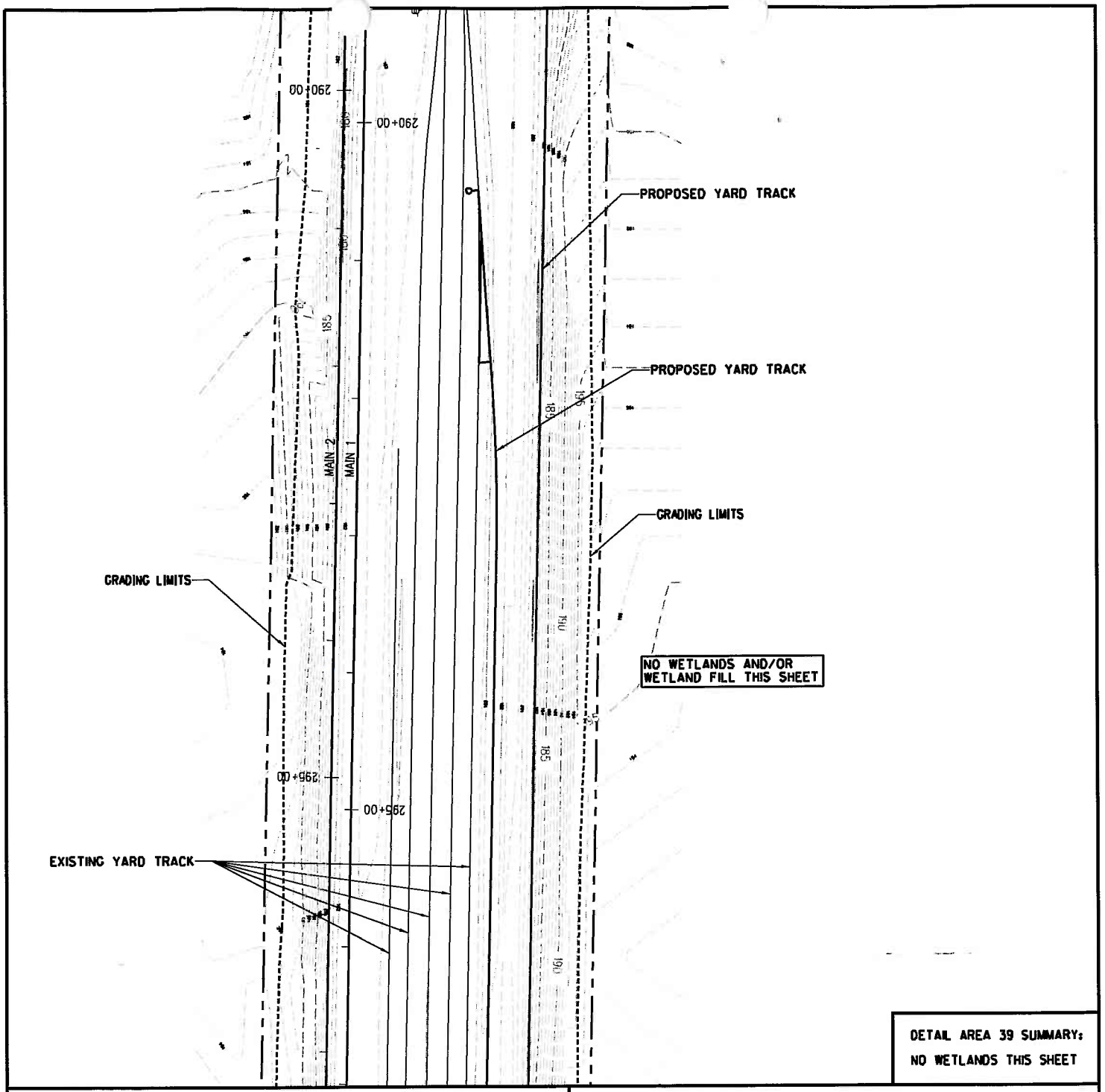


N

0 25 50 100
SCALE IN FEET

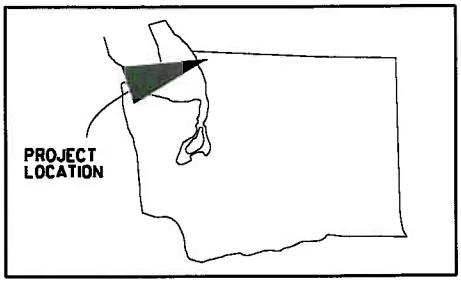
PROPOSED WORK IMPACTS
DETAIL AREA 38

USACE REF NO.:
PROJECT: CUSTER SPUR IMPROVEMENTS (INTALCO WYE TO ELLIOTT YARD CAPACITY EXPANSION PROJECT)
APPLICANT: BNSF RAILWAY CO.
WATERWAY: CALIFORNIA CREEK; TERRELL CREEK
BNSF LOCATION: NW DIVISION, CHERRY POINT SUBDIVISION, LS 418
LEGAL: IN PORTIONS OF SECTIONS 26, 27, 28, 32, 33, T40N, R1E, AND SECTIONS 5, 8, 17, T39N, R1E
COUNTY: WHATCOM STATE: WASHINGTON
LAT/LONG START: N48.9218°; W122.6478°
LAT/LONG END: N48.8702°; W122.7094°
DATE: 08\12\2011 SHEET OF



DETAIL AREA 39 SUMMARY:
NO WETLANDS THIS SHEET

DATA PLOT
WETLAND BOUNDARY
GRADING LIMIT BOUNDARY
ROW BOUNDARY
WETLAND EXTENDS BEYOND STUDY AREA
FLOW DIRECTION
WETLAND
WETLAND IMPACT

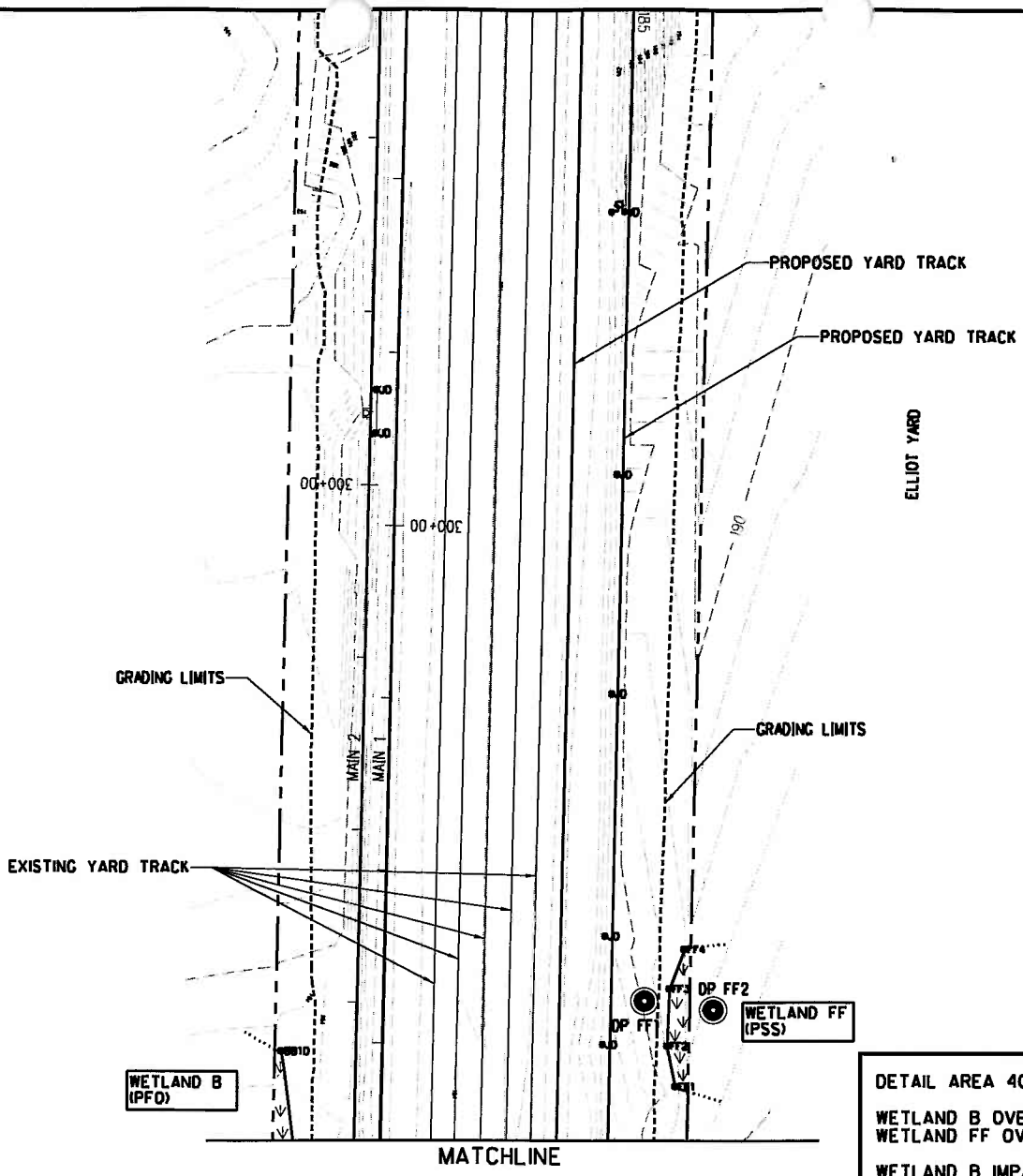


N

0 25 50 100
SCALE IN FEET

PROPOSED WORK IMPACTS
DETAIL AREA 39

USACE REF NO.:
PROJECT: CUSTER SPUR IMPROVEMENTS (INTALCO WYE TO ELLIOTT YARD CAPACITY EXPANSION PROJECT)
APPLICANT: BNSF RAILWAY CO.
WATERWAY: CALIFORNIA CREEK; TERRELL CREEK
BNSF LOCATION: NW DIVISION, CHERRY POINT SUBDIVISION, LS 418
LEGAL: IN PORTIONS OF SECTIONS 26, 27, 28, 32, 33, T40N, R1E, AND SECTIONS 5, 8, 17, T39N, R1E
COUNTY: WHATCOM STATE: WASHINGTON
LAT/LONG START: N48.9218°; W122.6478°
LAT/LONG END: N48.8702°; W122.7094°
DATE: 08\12\2011 SHEET OF



DETAIL AREA 40 SUMMARY:

WETLAND B OVERALL AREA: 0.11 AC
WETLAND FF OVERALL AREA: 0.02 AC

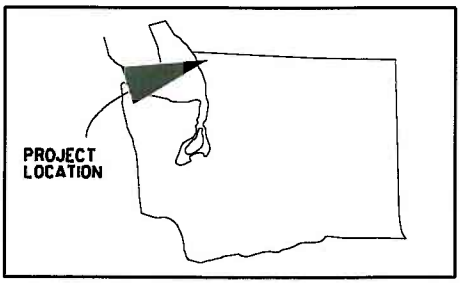
WETLAND B IMPACTS: 0.04 AC
WETLAND FF IMPACTS: 0.00 AC

WETLAND B OVERALL THIS SHEET: 0.01 AC
WETLAND FF OVERALL THIS SHEET: 0.02 AC

WETLAND B IMPACTS THIS SHEET: 0.00 AC
WETLAND FF IMPACTS THIS SHEET: 0.00 AC

OVERALL IMPACTS THIS SHEET: 0.00 AC

DATA PLOT
WETLAND BOUNDARY
GRADING LIMIT BOUNDARY
ROW BOUNDARY
WETLAND EXTENDS BEYOND STUDY AREA
FLOW DIRECTION
WETLAND
WETLAND IMPACT

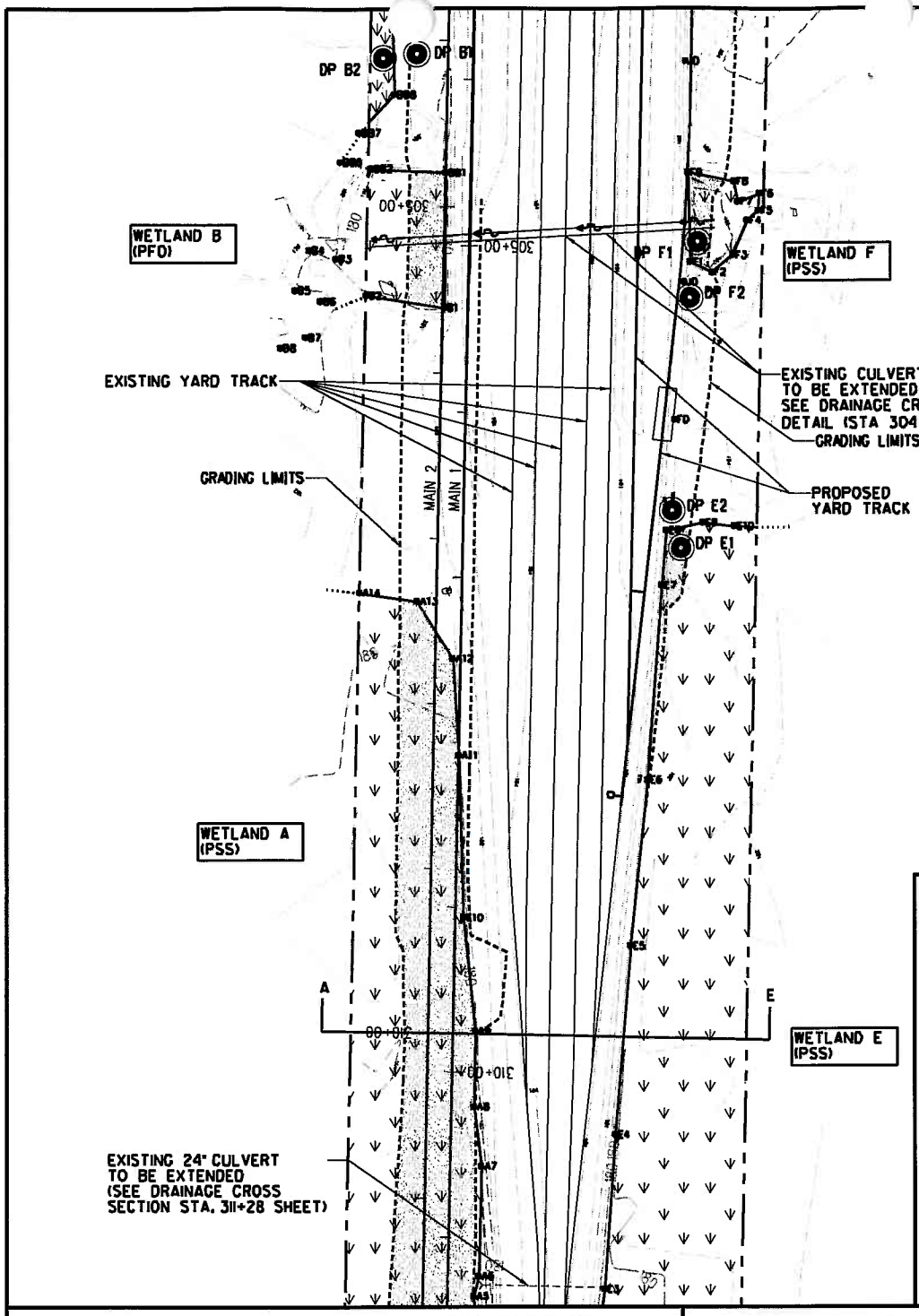


N

0 25 50 100
SCALE IN FEET

PROPOSED WORK IMPACTS
DETAIL AREA 40

USACE REF NO.:
PROJECT: CUSTER SPUR IMPROVEMENTS (INTALCO WYE TO ELLIOTT YARD CAPACITY EXPANSION PROJECT)
APPLICANT: BNSF RAILWAY CO.
WATERWAY: CALIFORNIA CREEK; TERRELL CREEK
BNSF LOCATION: NW DIVISION, CHERRY POINT SUBDIVISION, LS 418
LEGAL: IN PORTIONS OF SECTIONS 26, 27, 28, 32, 33, T40N, R1E, AND SECTIONS 5, 8, 17, T39N, R1E
COUNTY: WHATCOM STATE: WASHINGTON
LAT/LONG START: N48.9218°; W122.6478°
LAT/LONG END: N48.8702°; W122.7094°
DATE: 08\12\2011 SHEET OF



DETAIL AREA 41 SUMMARY:

WETLAND A OVERALL AREA: 0.83 AC
WETLAND B OVERALL AREA: 0.11 AC
WETALND E OVERALL AREA: 1.11 AC
WETLAND F OVERALL AREA: 0.04 AC

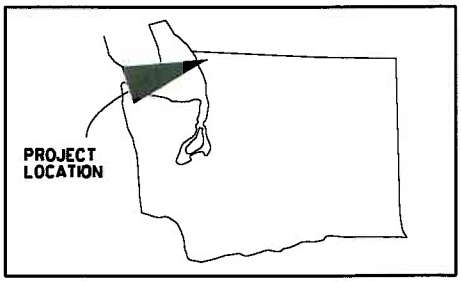
WETLAND A OVERALL IMPACTS: 0.55 AC
WETLAND B OVERALL IMPACTS: 0.04 AC
WETALND E OVERALL IMPACTS: 0.02 AC
WETLAND F OVERALL IMPACTS: 0.02 AC

WETLAND A AREA THIS SHEET: 0.68 AC
WETLAND B AREA THIS SHEET: 0.10 AC
WETALND E AREA THIS SHEET: 0.74 AC
WETLAND F AREA THIS SHEET: 0.04 AC

WETLAND A IMPACTS THIS SHEET: 0.47 AC
WETLAND B IMPACTS THIS SHEET: 0.04 AC
WETLAND E IMPACTS THIS SHEET: 0.02 AC
WETLAND F IMPACTS THIS SHEET: 0.02 AC

OVERALL IMPACTS THIS SHEET: 0.55 AC

DATA PLOT
WETLAND BOUNDARY
GRADING LIMIT BOUNDARY
ROW BOUNDARY
WETLAND EXTENDS BEYOND STUDY AREA
FLOW DIRECTION
WETLAND
WETLAND IMPACT

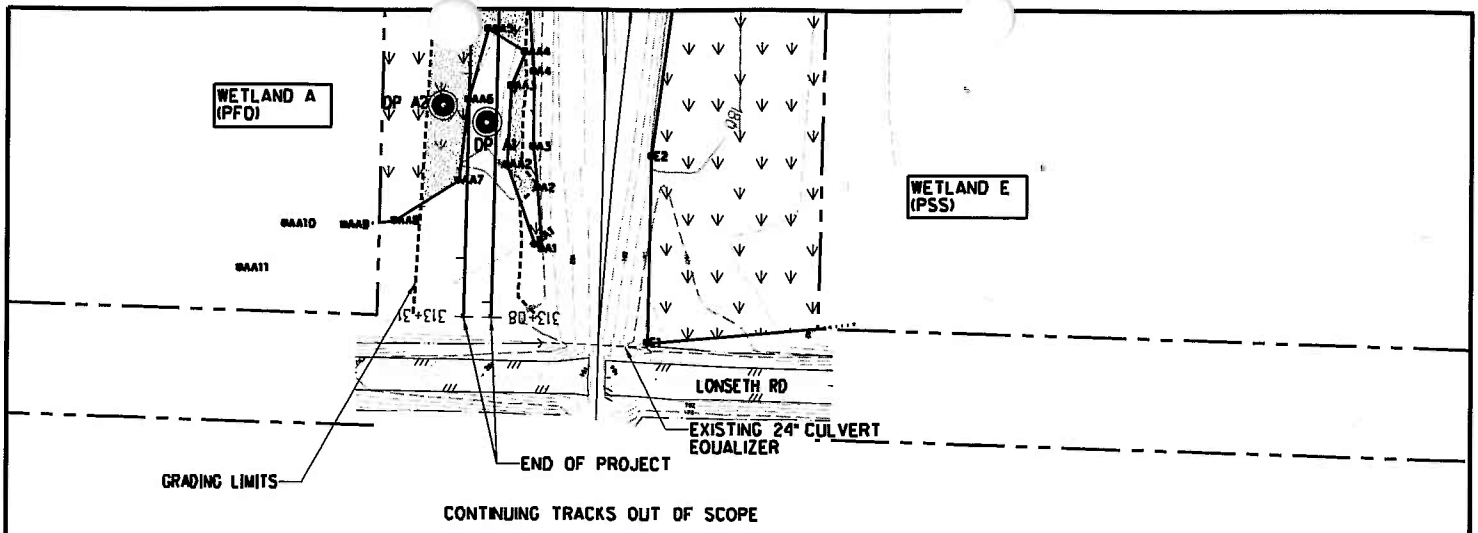


N

0 25 50 100
SCALE IN FEET

PROPOSED WORK IMPACTS
DETAIL AREA 41

USACE REF NO.:
PROJECT: CUSTER SPUR IMPROVEMENTS (INTALCO WYE TO ELLIOTT YARD CAPACITY EXPANSION PROJECT)
APPLICANT: BNSF RAILWAY CO.
WATERWAY: CALIFORNIA CREEK; TERRELL CREEK
BNSF LOCATION: NW DIVISION, CHERRY POINT SUBDIVISION, LS 418 41
LEGAL: IN PORTIONS OF SECTIONS 26, 27, 28, 32, 33, T40N, R1E, AND SECTIONS 5, 8, 17, T39N, R1E
COUNTY: WHATCOM STATE: WASHINGTON
LAT/LONG START: N48.9218°; W122.6478°
LAT/LONG END: N48.8702°; W122.7094°
DATE: 08\12\2011 SHEET OF



DETAIL AREA 42 SUMMARY:

WETLAND A OVERALL AREA: 0.83 AC
WETLAND E OVERALL AREA: 1.11 AC

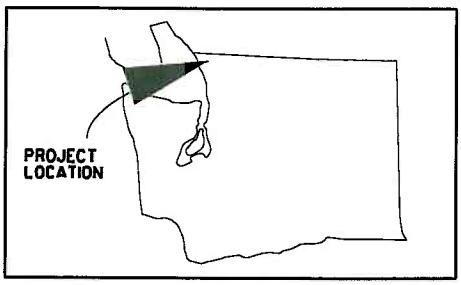
WETLAND A OVERALL IMPACTS: 0.55 AC
WETLAND E OVERALL IMPACTS: 0.02 AC

WETLAND A AREA THIS SHEET: 0.15 AC
WETLAND E AREA THIS SHEET: 0.37 AC

WETLAND A IMPACTS THIS SHEET: 0.08 AC
WETLAND E IMPACTS THIS SHEET: 0.00 AC

OVERALL IMPACTS THIS SHEET: 0.08 AC

DATA PLOT
WETLAND BOUNDARY
GRADING LIMIT BOUNDARY
ROW BOUNDARY
WETLAND EXTENDS BEYOND STUDY AREA
FLOW DIRECTION
WETLAND
WETLAND IMPACT



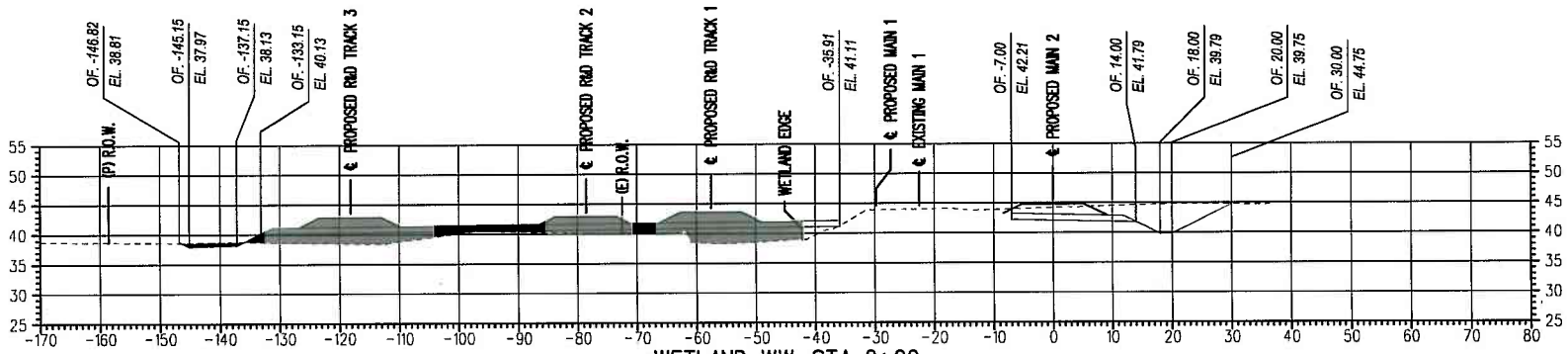
N

0 25 50 100
SCALE IN FEET

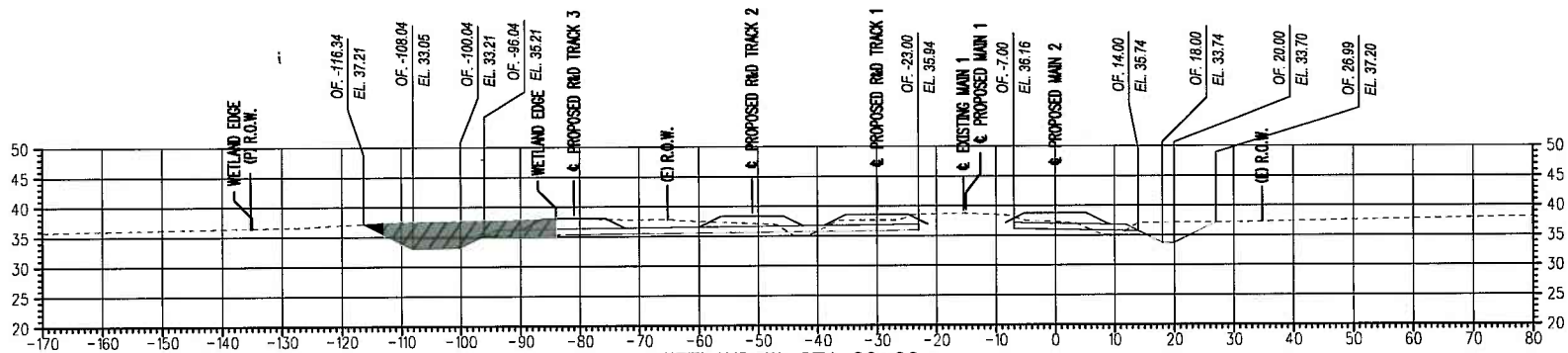
PROPOSED WORK IMPACTS
DETAIL AREA 42

USACE REF NO.:
PROJECT: CUSTER SPUR IMPROVEMENTS (INTALCO WYE TO ELLIOTT YARD CAPACITY EXPANSION PROJECT)
APPLICANT: BNSF RAILWAY CO.
WATERWAY: CALIFORNIA CREEK; TERRELL CREEK
BNSF LOCATION: NW DIVISION, CHERRY POINT SUBDIVISION, LS 418
LEGAL: IN PORTIONS OF SECTIONS 26, 27, 28, 32, 33, T40N, R1E, AND SECTIONS 5, 8, 17, T39N, R1E
COUNTY: WHATCOM STATE: WASHINGTON
LAT/LONG START: N48.9218°; W122.6478°
LAT/LONG END: N48.8702°; W122.7094°
DATE: 08\12\2011 SHEET OF

[SEE DETAIL DRAINAGE CROSS SECTION STA. -0+65]



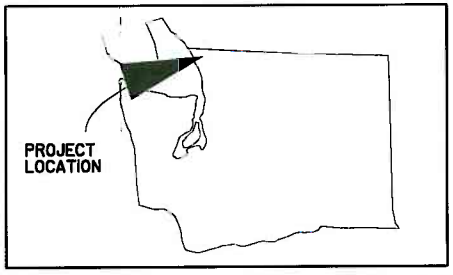
WETLAND WW STA. 2+00



WETLAND W STA. 26+00

LEGEND

- EXISTING GROUND
- PROPOSED GRADE
- WETLAND EXCAVATION
- WETLAND IMPACTS

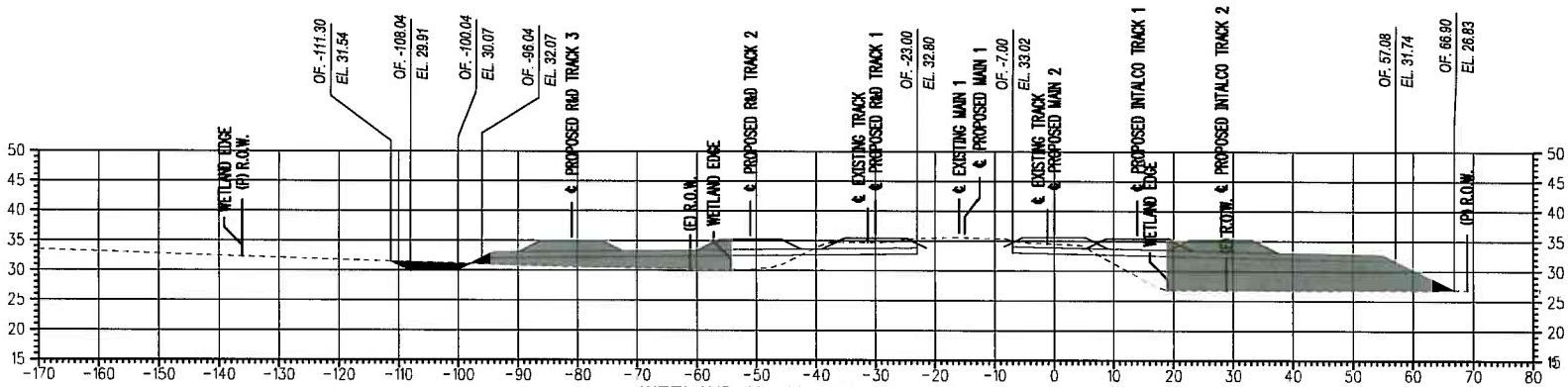


EXISTING CONDITIONS & PROPOSED WORK
TYPICAL CROSS SECTION AREA

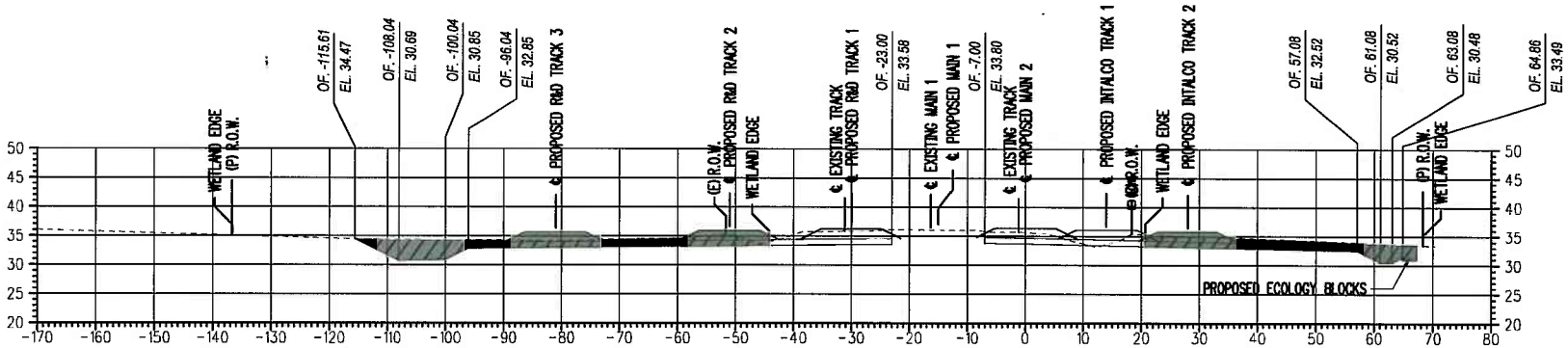
USACE REF NO.:
PROJECT: CUSTER SPUR IMPROVEMENTS (INTALCO WYE TO ELLIOTT YARD CAPACITY EXPANSION PROJECT)
APPLICANT: BNSF RAILWAY CO.
WATERWAY: CALIFORNIA CREEK; TERRELL CREEK
BNSF LOCATION: NW DIVISION, CHERRY POINT SUBDIVISION, LS 418
LEGAL: IN PORTIONS OF SECTIONS 26, 27, 28, 32, 33, T40N, R1E, AND SECTIONS 5, 8, 17, T39N, R1E
COUNTY: WHATCOM STATE: WASHINGTON
LAT/LONG START: N48.9218°; W122.6478°
LAT/LONG END: N48.8702°; W122.7094°
DATE: 08\12\2011 SHEET OF

BASE FILE FROM HANSON PROFESSIONAL SERVICES INC. Date: 08\12\2011

[SEE DETAIL SHEET FOR CALIFORNIA CREEK BRIDGE STA. 45+00]



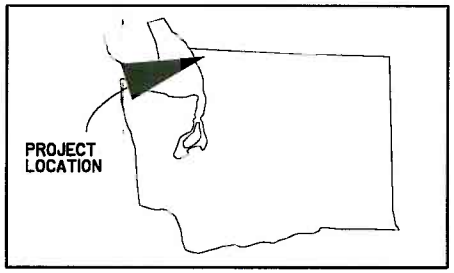
WETLAND Uu-V STA. 51+00



WETLAND U-VV STA. 68+00

LEGEND

- EXISTING GROUND
- PROPOSED GRADE
- WETLAND EXCAVATION
- WETLAND IMPACTS



EXISTING CONDITIONS & PROPOSED WORK
TYPICAL CROSS SECTION AREA

USACE REF NO.:
PROJECT: CUSTER SPUR IMPROVEMENTS (INTALCO WYE TO ELLIOTT YARD CAPACITY EXPANSION PROJECT)
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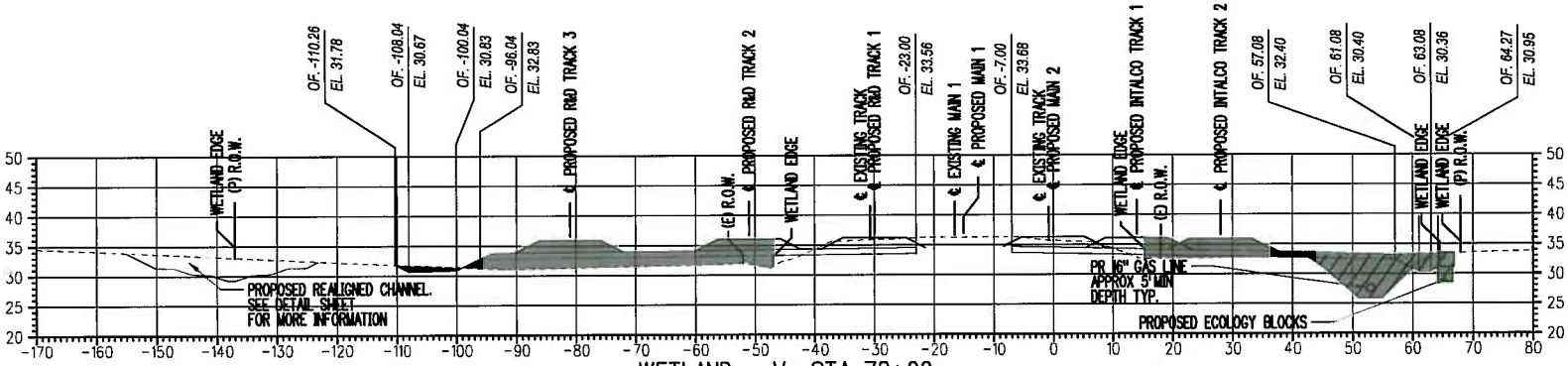
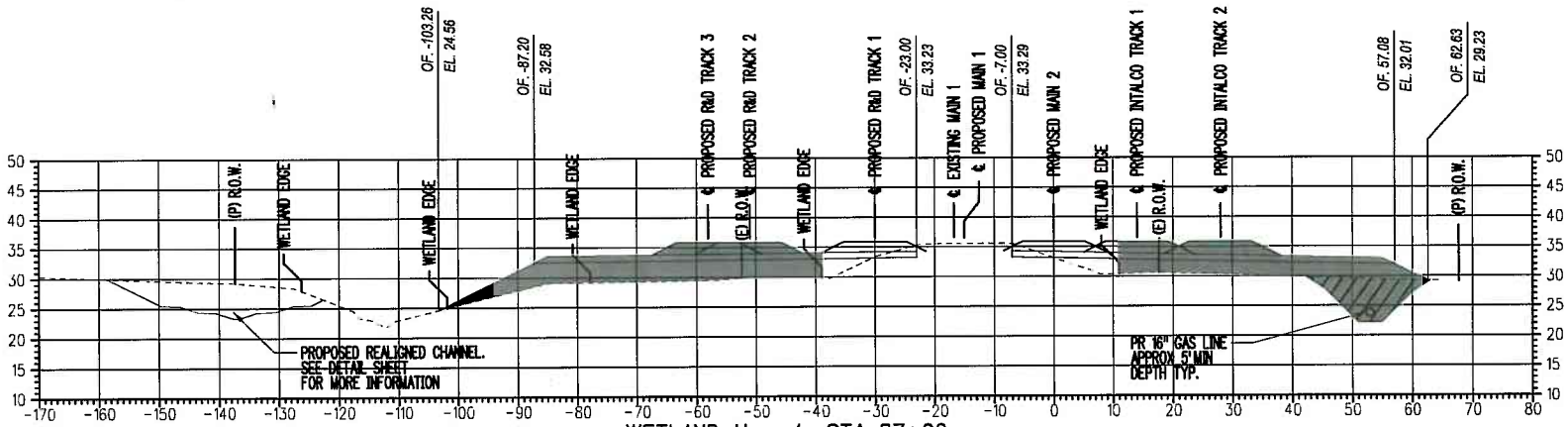
BASE FILE FROM HANSON PROFESSIONAL SERVICES INC. Date: 08\12\2011



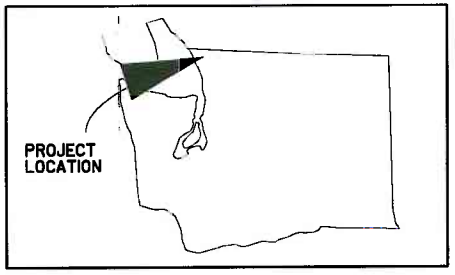
WETLAND u-Vv STA. 78+00



WETLAND tt-vv/v STA. 87+00

LEGEND

- EXISTING GROUND
- PROPOSED GRADE
- WETLAND EXCAVATION
- WETLAND IMPACTS



EXISTING CONDITIONS & PROPOSED WORK
TYPICAL CROSS SECTION AREA

USACE REF NO.:
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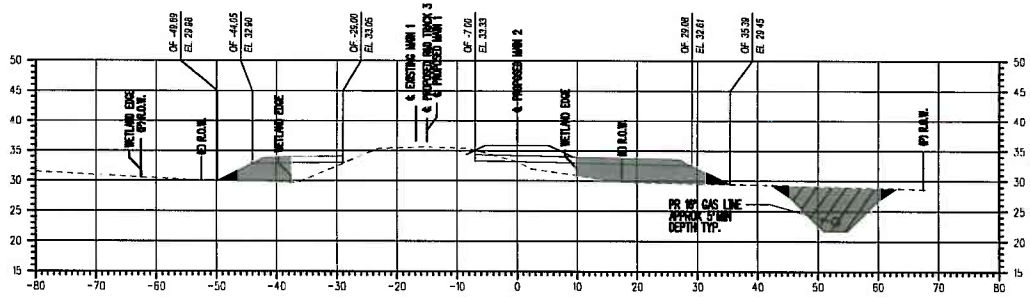
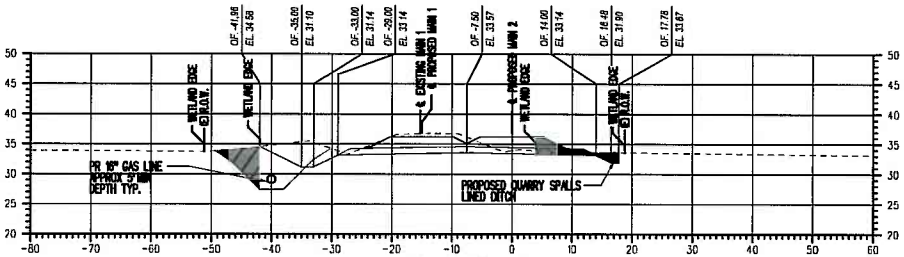
BASE FILE FROM HANSON PROFESSIONAL SERVICES INC. Date: 08\12\2011



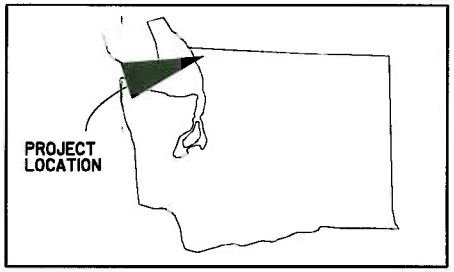
WETLAND TT-vv/v STA. 92+00



WETLAND Ss-Rr STA. 101+00

LEGEND

- EXISTING GROUND
- PROPOSED GRADE
- WETLAND EXCAVATION
- WETLAND IMPACTS



EXISTING CONDITIONS & PROPOSED WORK
TYPICAL CROSS SECTION AREA

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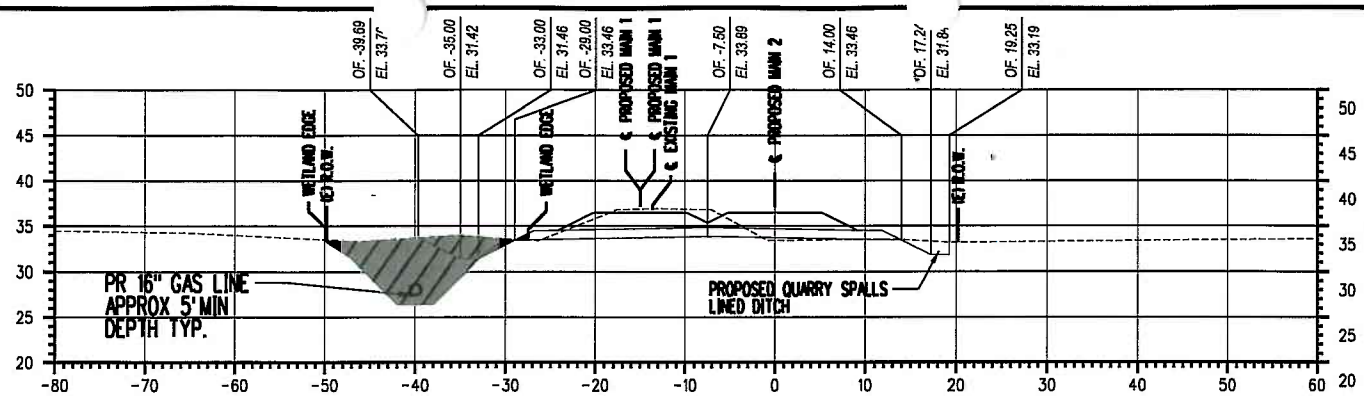
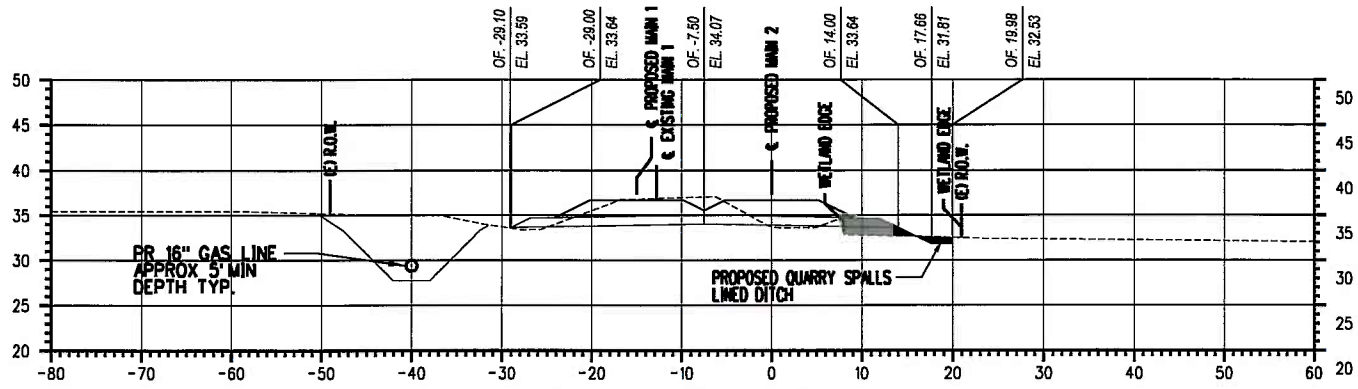
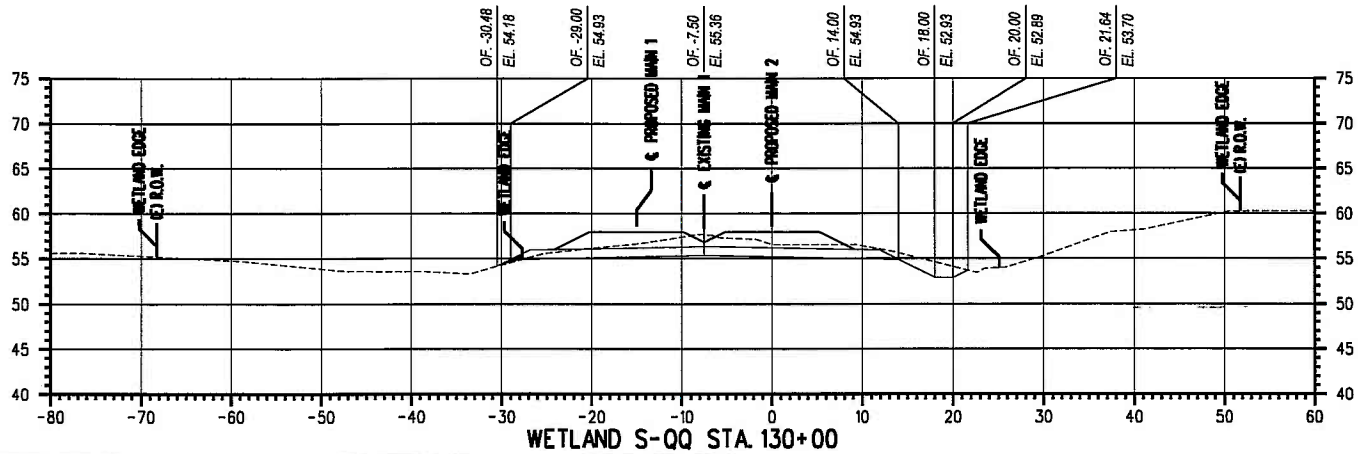


WETLAND Ss STA. 103+00



WETLAND rr STA. 104+00

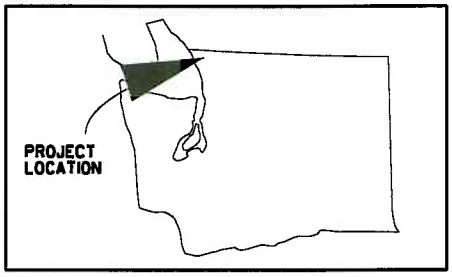
[SEE DETAIL DRAINAGE CROSS SECTION STA. 106+10
SEE DETAIL DRAINAGE CROSS SECTION STA. 114+37
SEE DETAIL DRAINAGE CROSS SECTION STA. 117+43]



WETLAND S-QQ STA. 130+00

LEGEND

- EXISTING GROUND
- PROPOSED GRADE
- WETLAND EXCAVATION
- WETLAND IMPACTS



EXISTING CONDITIONS & PROPOSED WORK
TYPICAL CROSS SECTION AREA

USACE REF NO.:
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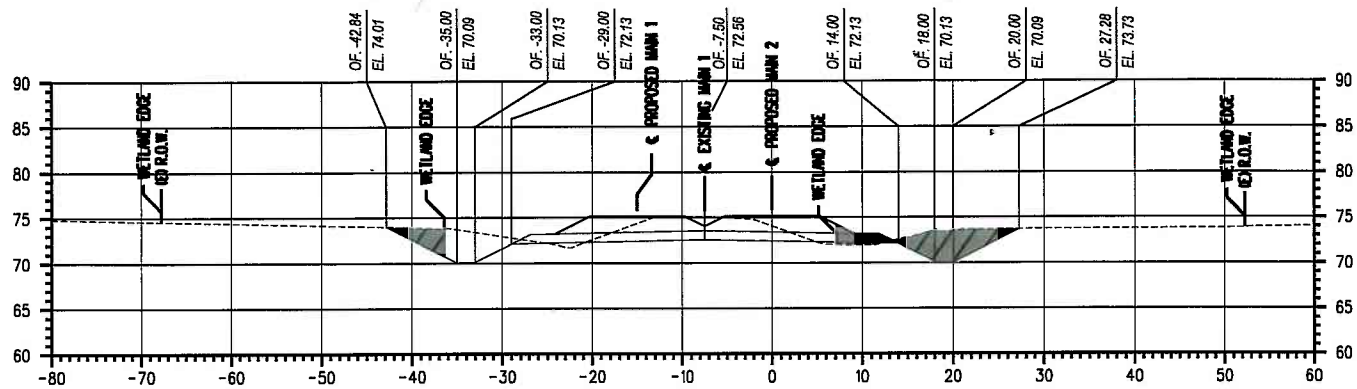
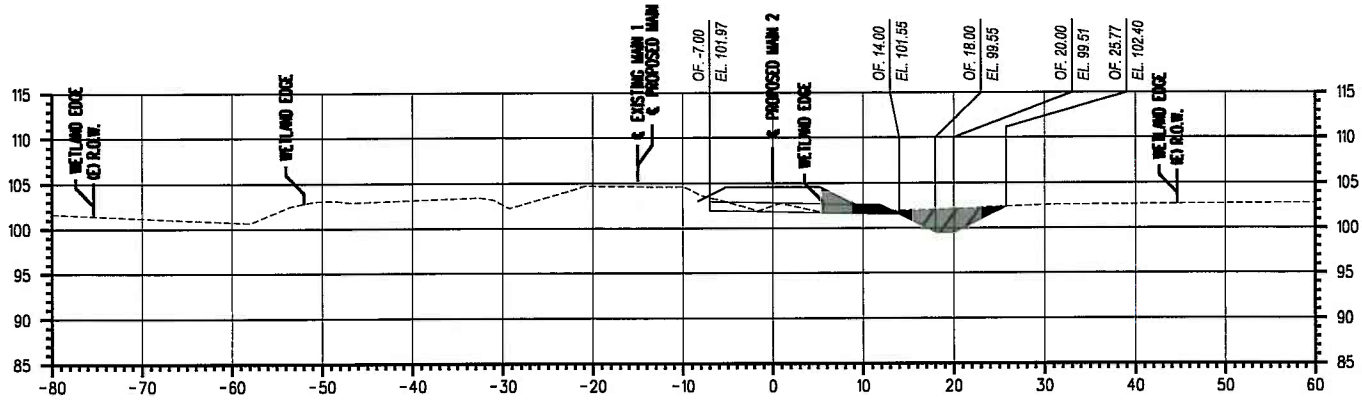
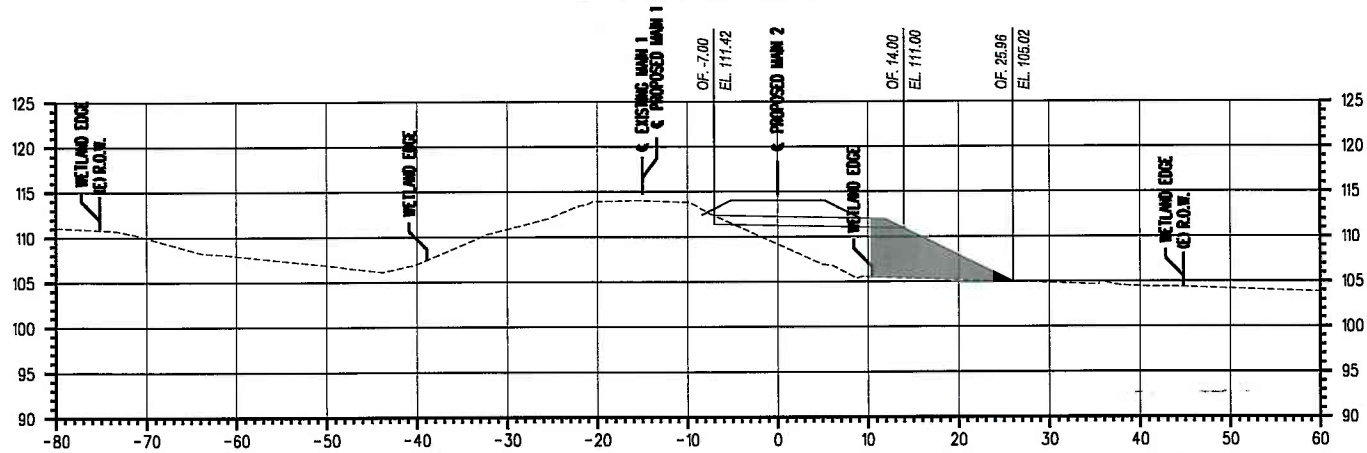


WETLAND S-q STA. 141+00



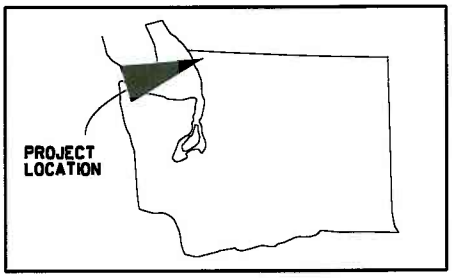
WETLAND S-Q STA. 159+00



WETLAND P-n STA. 165+00

LEGEND

- EXISTING GROUND
- PROPOSED GRADE
- WETLAND EXCAVATION
- WETLAND IMPACTS



EXISTING CONDITIONS & PROPOSED WORK
TYPICAL CROSS SECTION AREA

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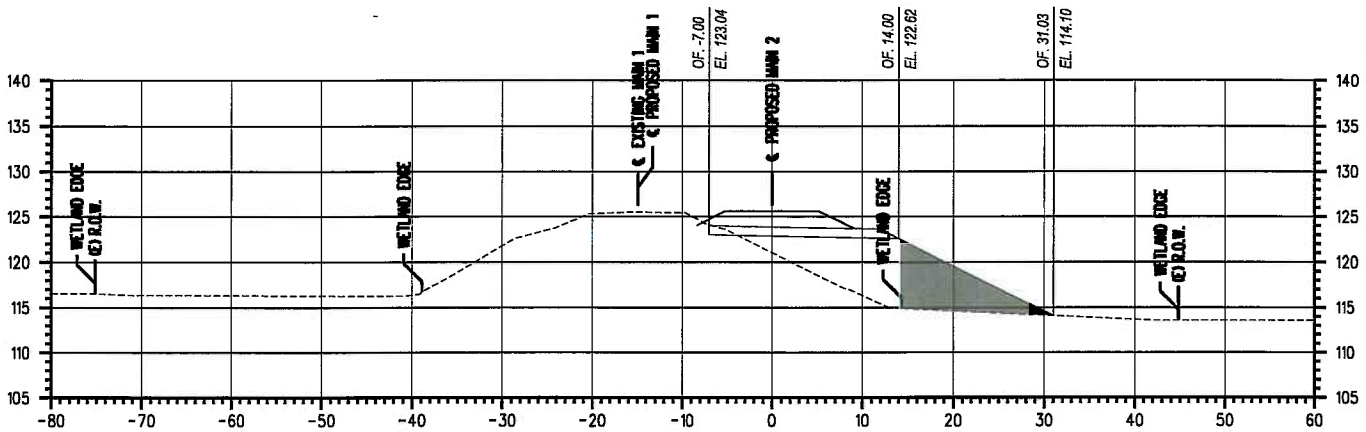
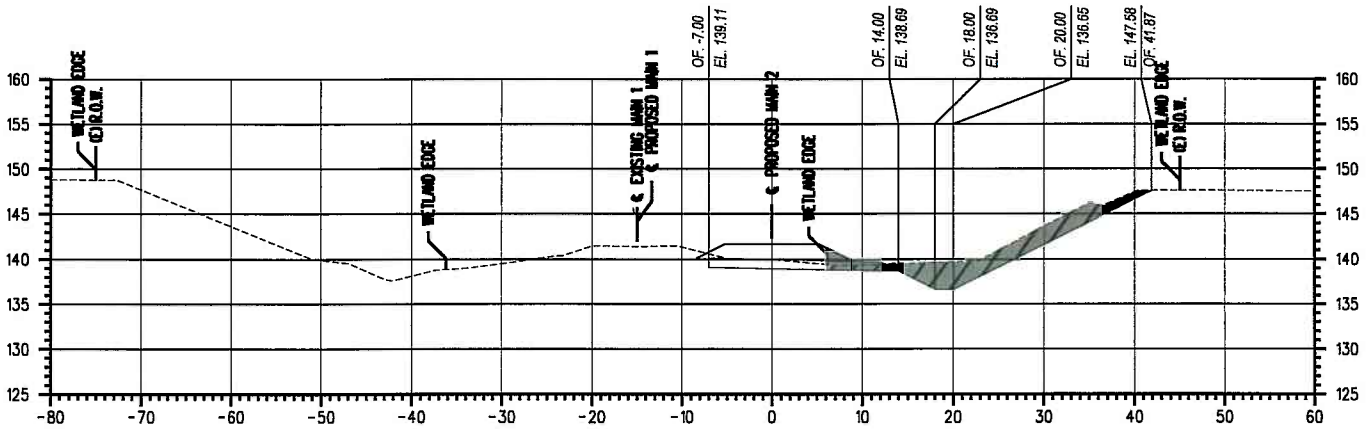


WETLAND P-Nn STA. 172+00

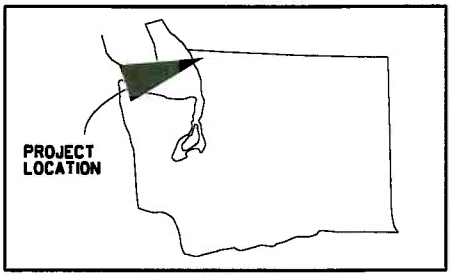


WETLAND OO/Oo-M STA. 185+00

[SEE DETAIL SHEET FOR TERRELL CREEK BRIDGE STA. 209+00]

LEGEND

- EXISTING GROUND
- PROPOSED GRADE
- WETLAND EXCAVATION
- WETLAND IMPACTS



EXISTING CONDITIONS & PROPOSED WORK
TYPICAL CROSS SECTION AREA

USACE REF NO.:
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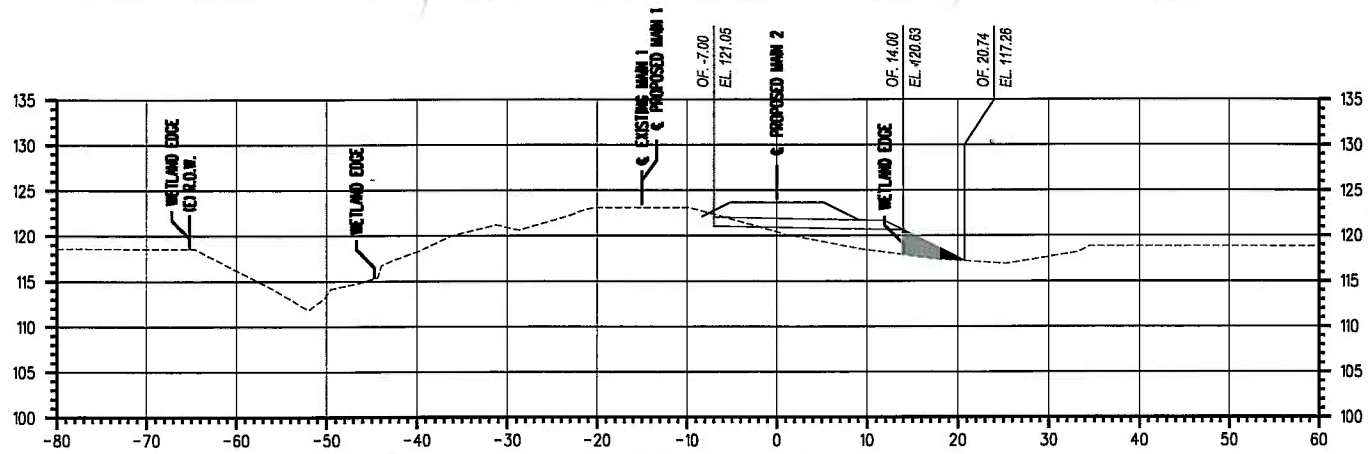
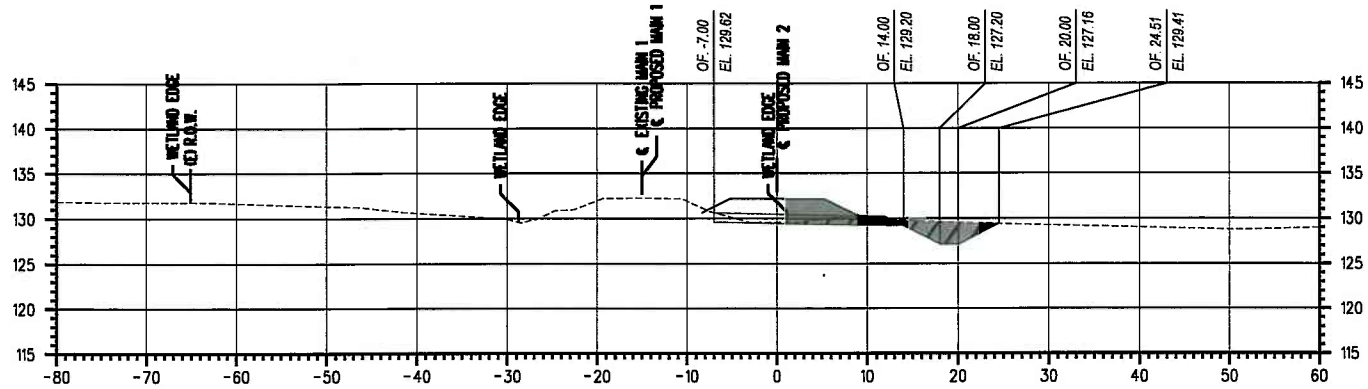
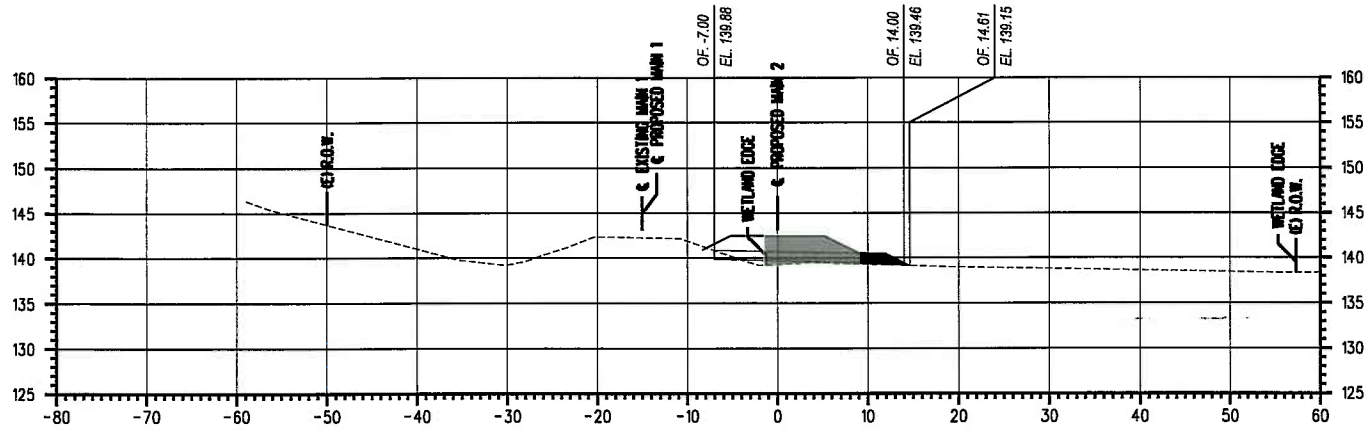


WETLAND OO/Oo-Mm STA. 211+00



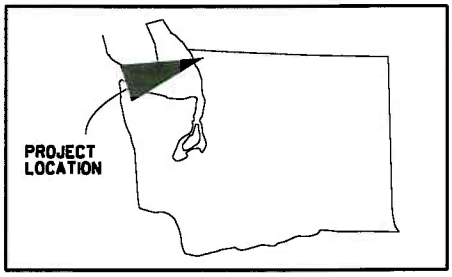
WETLAND O-m STA. 230+00



WETLAND KK STA. 236+00

LEGEND

- EXISTING GROUND
- PROPOSED GRADE
- WETLAND EXCAVATION
- WETLAND IMPACTS



EXISTING CONDITIONS & PROPOSED WORK
TYPICAL CROSS SECTION AREA

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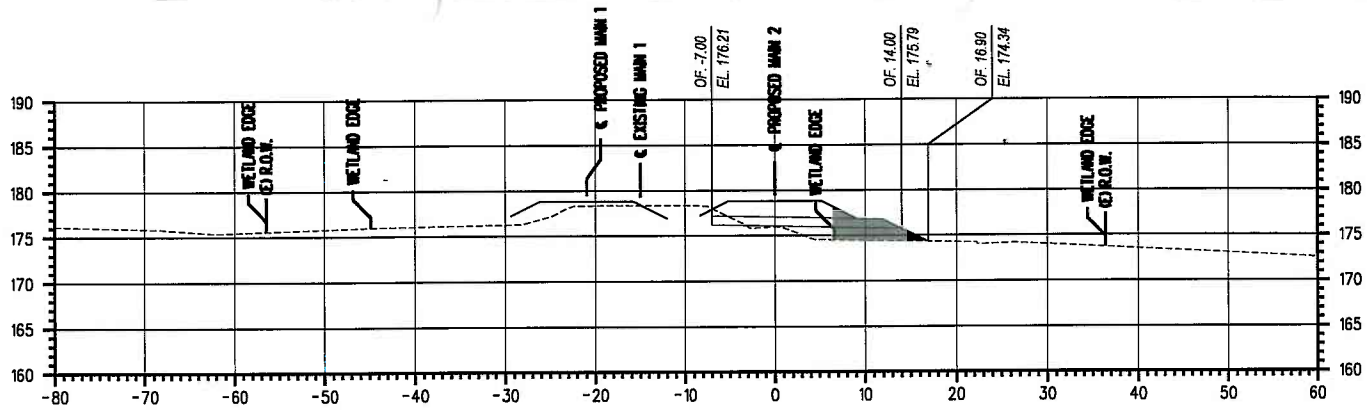
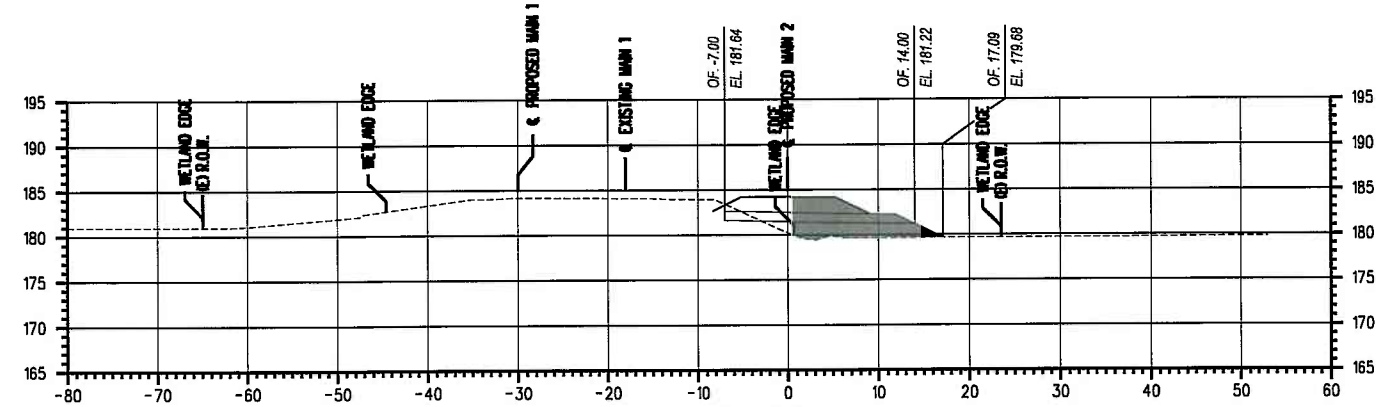
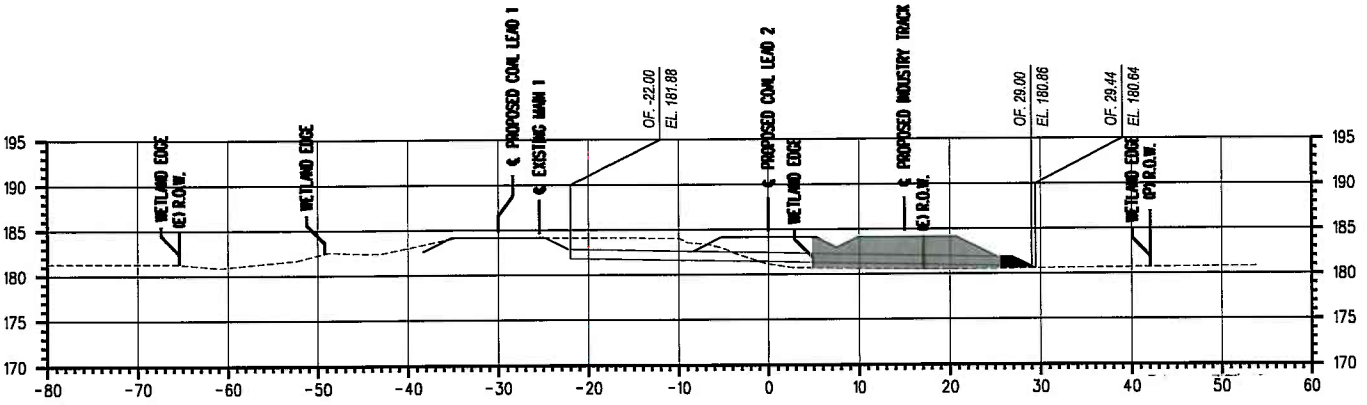


WETLAND L-K STA. 258+00



WETLAND HH-J STA. 265+00

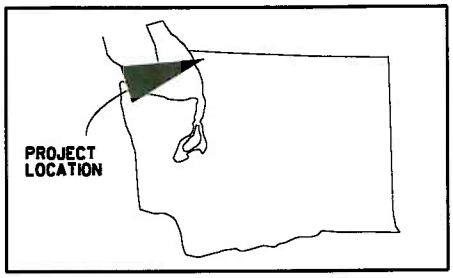


WETLAND HH-I STA. 275+00

[SEE DETAIL DRAINAGE CROSS SECTION STA. 282+11]

LEGEND

- ---- EXISTING GROUND
- —— PROPOSED GRADE
- WETLAND EXCAVATION
- WETLAND IMPACTS



EXISTING CONDITIONS & PROPOSED WORK
TYPICAL CROSS SECTION AREA

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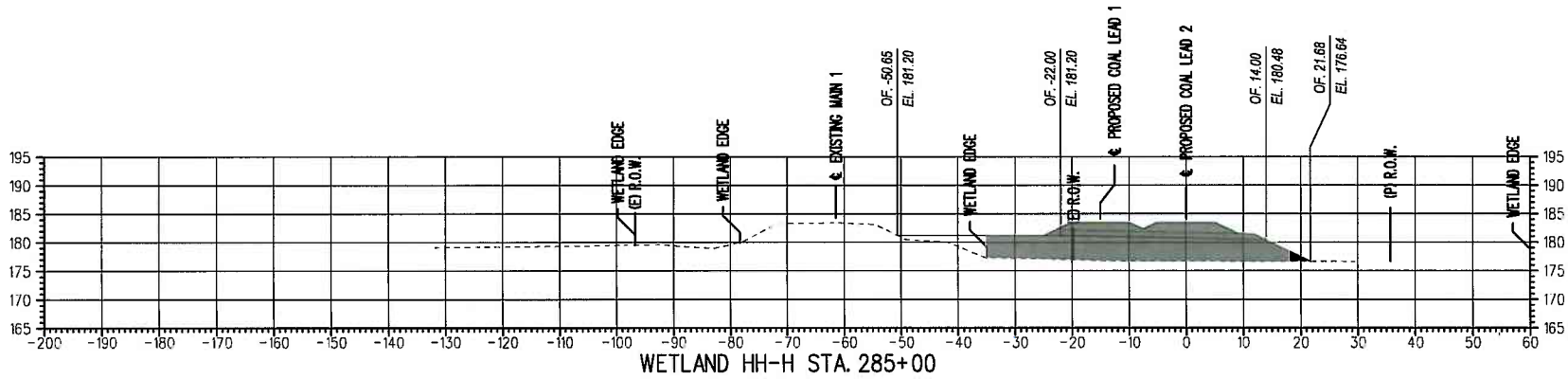
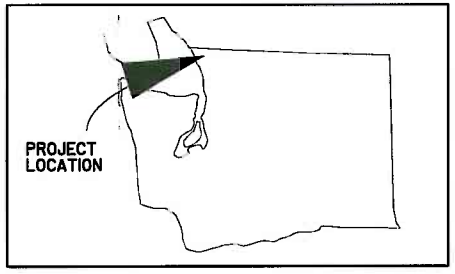


WETLAND HH-H STA. 285+00

[SEE DETAIL DRAINAGE CROSS SECTION STA. 287+12
SEE DETAIL DRAINAGE CROSS SECTION STA. 304+93
SEE DETAIL DRAINAGE CROSS SECTION STA. 311+28]

LEGEND

- EXISTING GROUND
- PROPOSED GRADE
- WETLAND EXCAVATION
- WETLAND IMPACTS



EXISTING CONDITIONS & PROPOSED WORK
TYPICAL CROSS SECTION AREA

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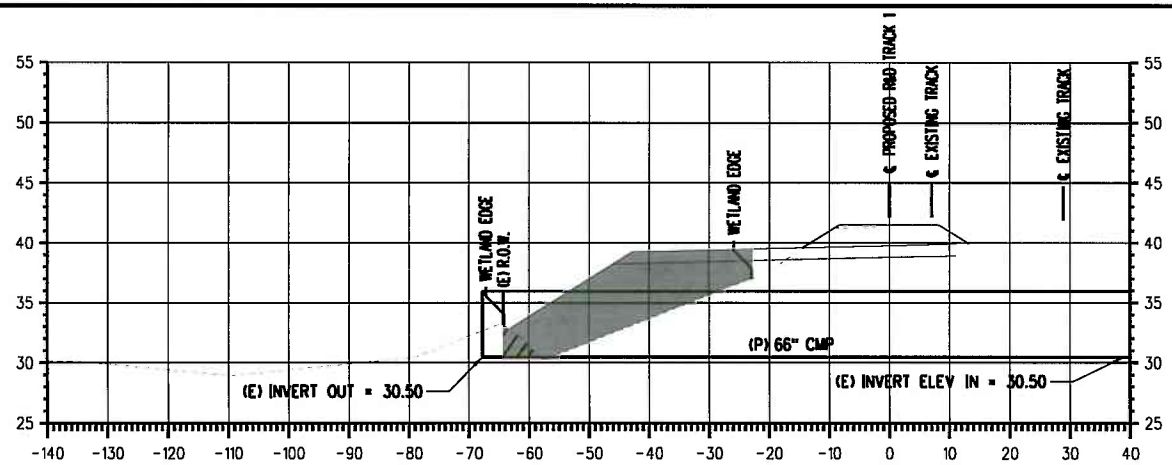
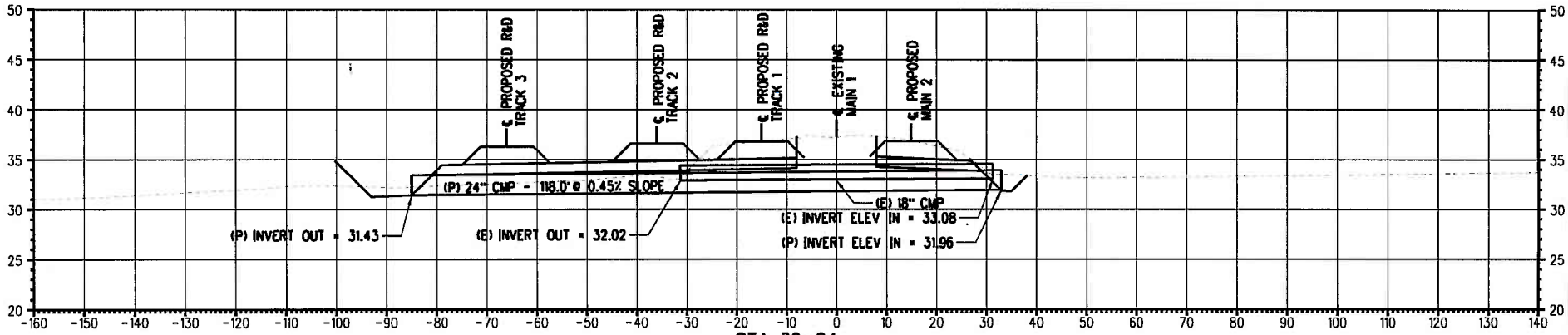


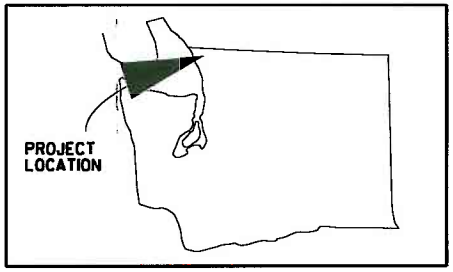
WETLAND WW STA. -0+55



STA. 30+84

LEGEND

- EXISTING GROUND
- PROPOSED GRADE
- WETLAND EXCAVATION
- WETLAND IMPACTS



DRAINAGE CROSS SECTION
STA. -0+65 & STA. 30+84

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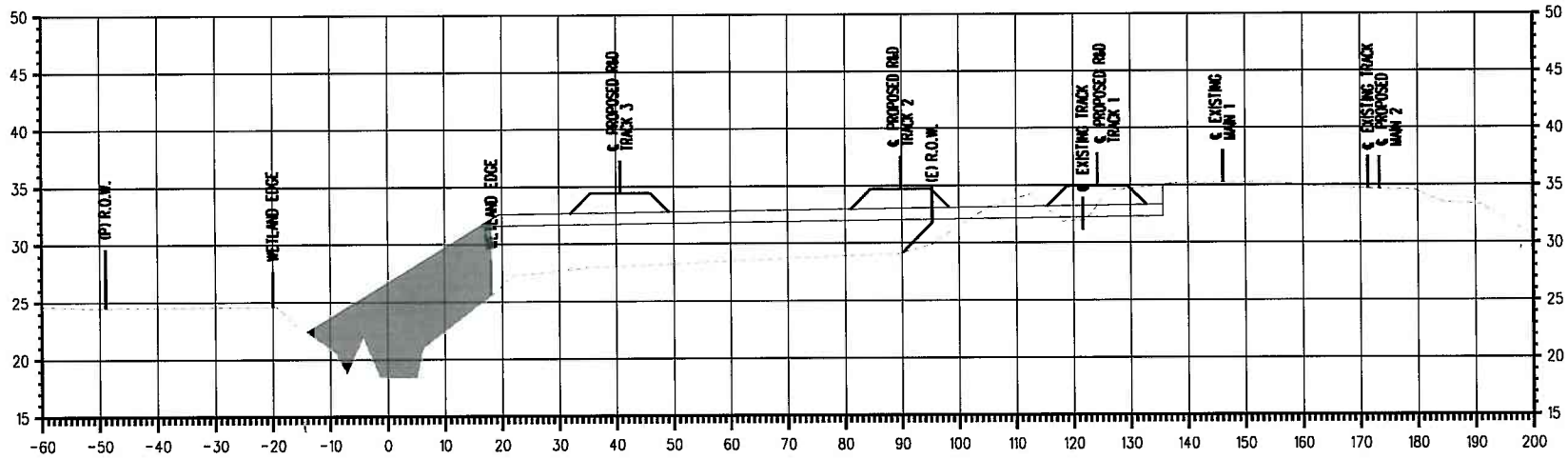
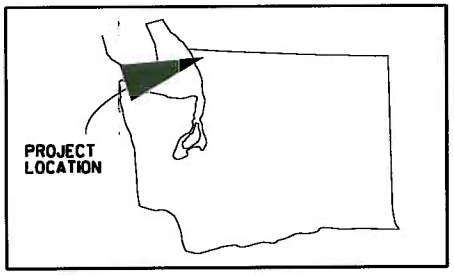


WETLAND X EXISTING CALIFORNIA CREEK TYPICAL CROSS SECTION

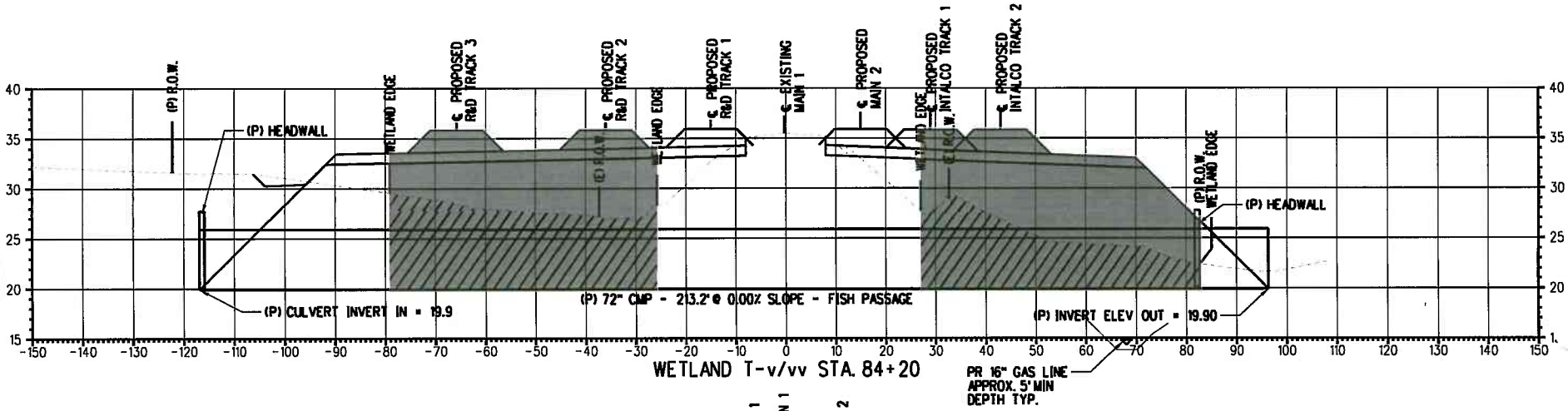
LEGEND

- EXISTING GROUND
- PROPOSED GRADE
- WETLAND EXCAVATION
- WETLAND IMPACTS

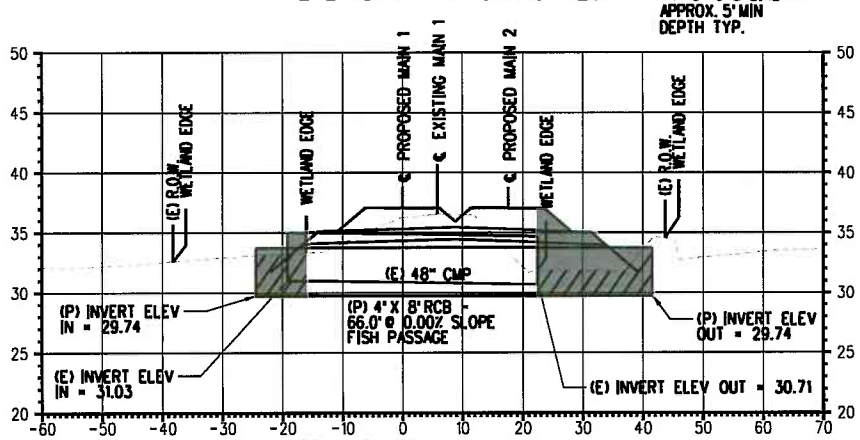


DRAINAGE CROSS SECTION
EXISTING CALIFORNIA CREEK

USACE REF NO.:
PROJECT: CUSTER SPUR IMPROVEMENTS (INTALCO WYE TO ELLIOTT YARD CAPACITY EXPANSION PROJECT)
APPLICANT: BNSF RAILWAY CO.
WATERWAY: CALIFORNIA CREEK; TERRELL CREEK
BNSF LOCATION: NW DIVISION, CHERRY POINT SUBDIVISION, LS 418
LEGAL: IN PORTIONS OF SECTIONS 26, 27, 28, 32, 33, T40N, R1E, AND SECTIONS 5, 8, 17, T39N, R1E
COUNTY: WHATCOM STATE: WASHINGTON
LAT/LONG START: N48.9218°; W122.6478°
LAT/LONG END: N48.8702°; W122.7094°
DATE: 08\12\2011 SHEET OF



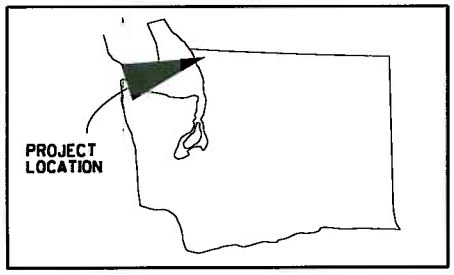
WETLAND T-v/vv STA. 84+20



WETLAND SS-R STA. 106+10

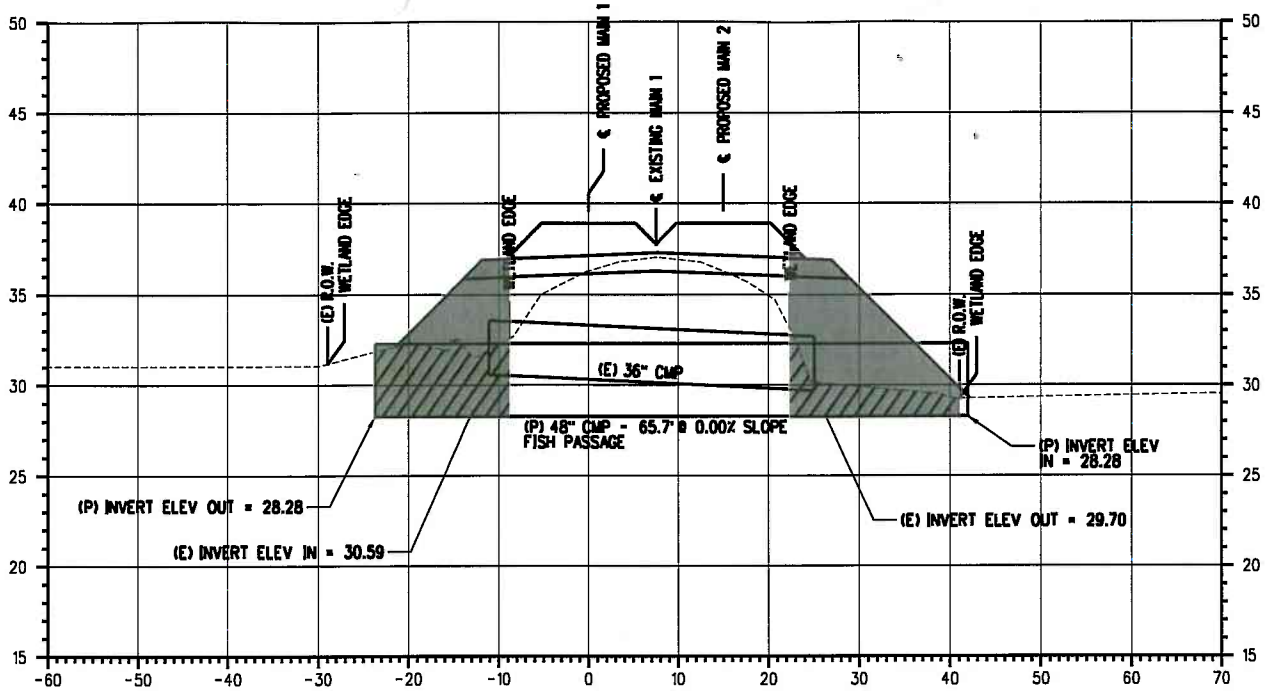
LEGEND

- EXISTING GROUND
- PROPOSED GRADE
- WETLAND EXCAVATION
- WETLAND IMPACTS

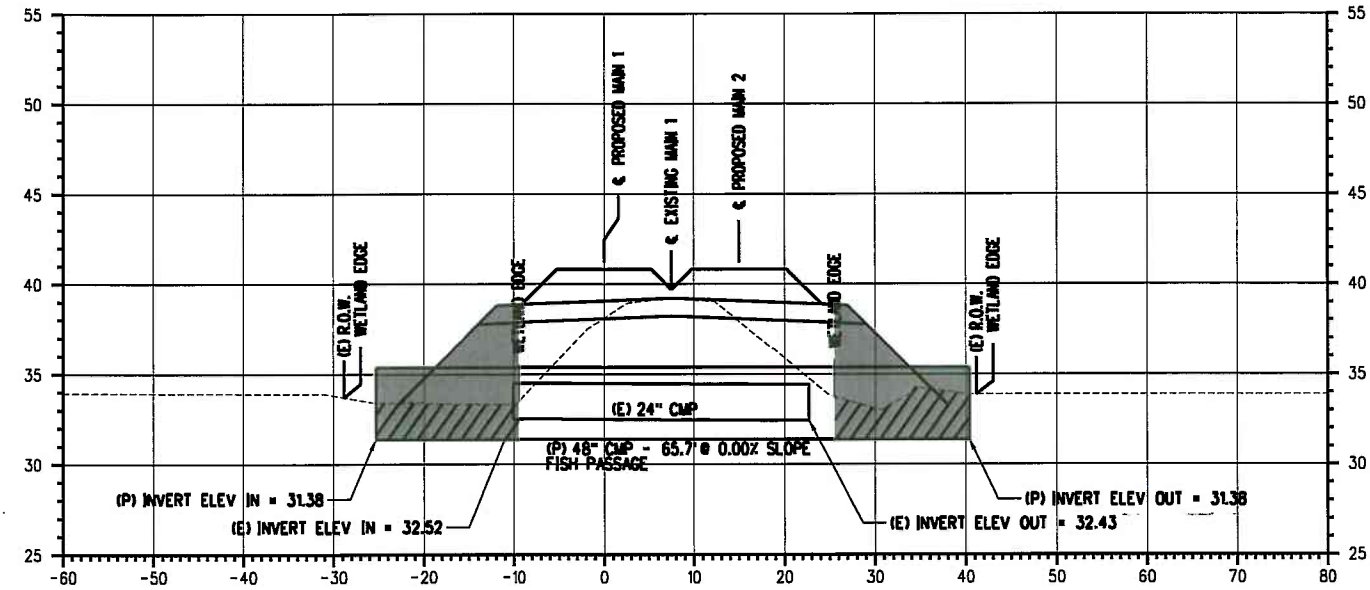


DRAINAGE CROSS SECTION
STA. 84+20 & STA. 106+10

USACE REF NO.:
PROJECT: CUSTER SPUR IMPROVEMENTS (INTALCO WYE TO ELLIOTT YARD CAPACITY EXPANSION PROJECT)
APPLICANT: BNSF RAILWAY CO.
WATERWAY: CALIFORNIA CREEK; TERRELL CREEK
BNSF LOCATION: NW DIVISION, CHERRY POINT SUBDIVISION, LS 418
LEGAL: IN PORTIONS OF SECTIONS 26, 27, 28, 32, 33, T40N, R1E, AND SECTIONS 5, 8, 17, T39N, R1E
COUNTY: WHATCOM STATE: WASHINGTON
LAT/LONG START: N48.9218°; W122.6478°
LAT/LONG END: N48.8702°; W122.7094°
DATE: 08\12\2011 SHEET OF



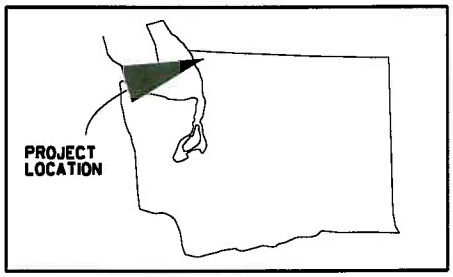
WETLAND SS-R STA. 114+37



WETLAND SS-R STA. 117+43

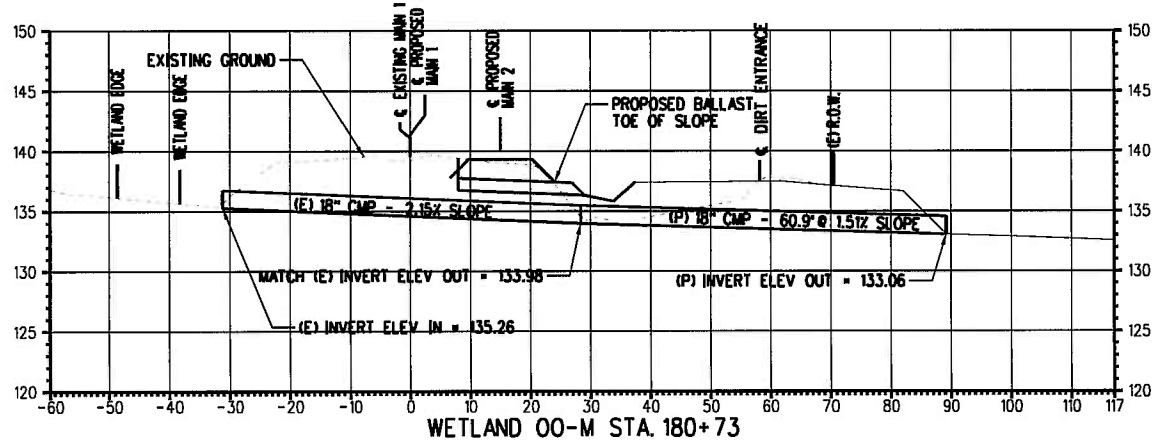
LEGEND

- ---- EXISTING GROUND
- —— PROPOSED GRADE
- WETLAND EXCAVATION
- WETLAND IMPACTS

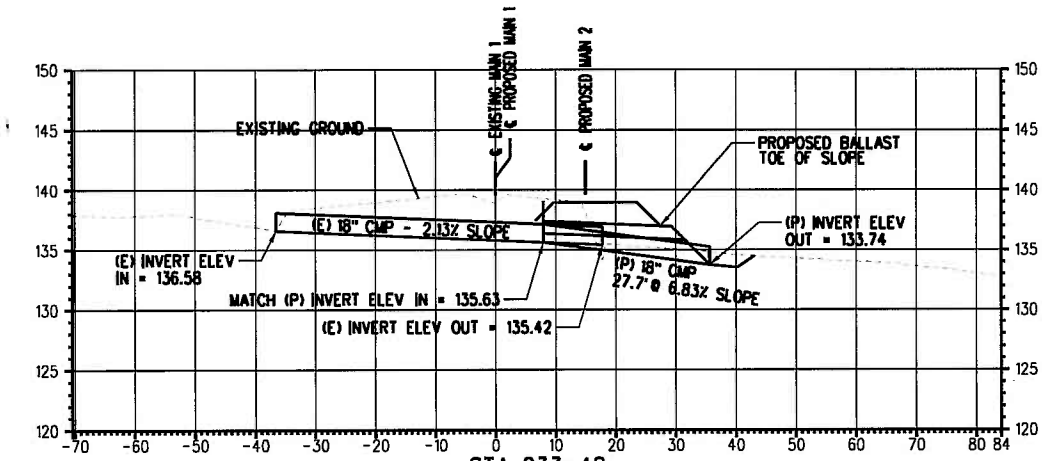


DRAINAGE CROSS SECTION
STA. 114+37 & 117+43

USACE REF NO.:
PROJECT: CUSTER SPUR IMPROVEMENTS (INTALCO WYE TO ELLIOTT YARD CAPACITY EXPANSION PROJECT)
APPLICANT: BNSF RAILWAY CO.
WATERWAY: CALIFORNIA CREEK; TERRELL CREEK
BNSF LOCATION: NW DIVISION, CHERRY POINT SUBDIVISION, LS 418
LEGAL: IN PORTIONS OF SECTIONS 26, 27, 28, 32, 33, T40N, R1E, AND SECTIONS 5, 8, 17, T39N, R1E
COUNTY: WHATCOM STATE: WASHINGTON
LAT/LONG START: N48.9218°; W122.6478°
LAT/LONG END: N48.8702°; W122.7094°
DATE: 08\12\2011 SHEET . OF



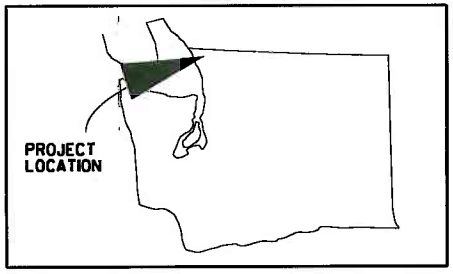
WETLAND OO-M STA. 180+73



STA. 233+48

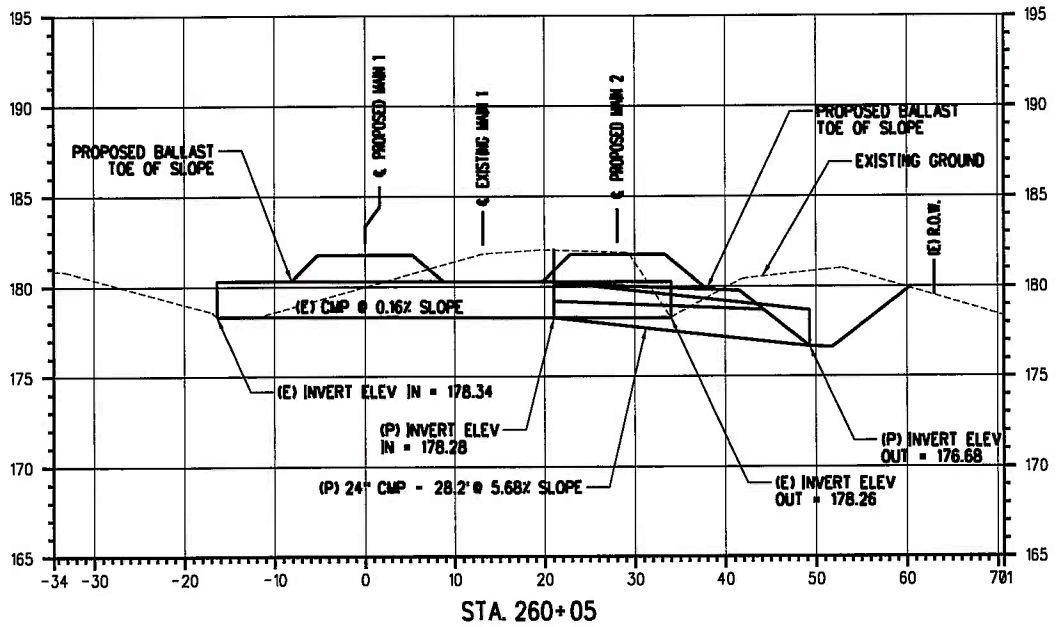
LEGEND

- EXISTING GROUND
- WETLAND IMPACTS
- PROPOSED GRADE



DRAINAGE CROSS SECTION
STA. 180+73 & STA. 233+48

USACE REF NO.:
PROJECT: CUSTER SPUR IMPROVEMENTS (INTALCO WYE TO ELLIOTT YARD CAPACITY EXPANSION PROJECT)
APPLICANT: BNSF RAILWAY CO.
WATERWAY: CALIFORNIA CREEK; TERRELL CREEK
BNSF LOCATION: NW DIVISION, CHERRY POINT SUBDIVISION, LS 418
LEGAL: IN PORTIONS OF SECTIONS 26, 27, 28, 32, 33, T40N, R1E, AND SECTIONS 5, 8, 17, T39N, R1E
COUNTY: WHATCOM STATE: WASHINGTON
LAT/LONG START: N48.9218°; W122.6478°
LAT/LONG END: N48.8702°; W122.7094°
DATE: 08\12\2011 SHEET OF

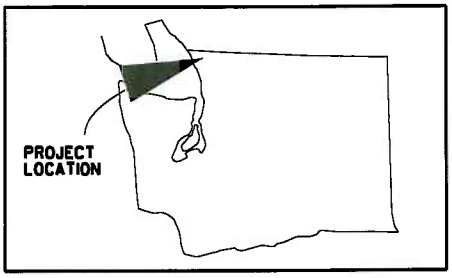


LEGEND

------ EXISTING GROUND

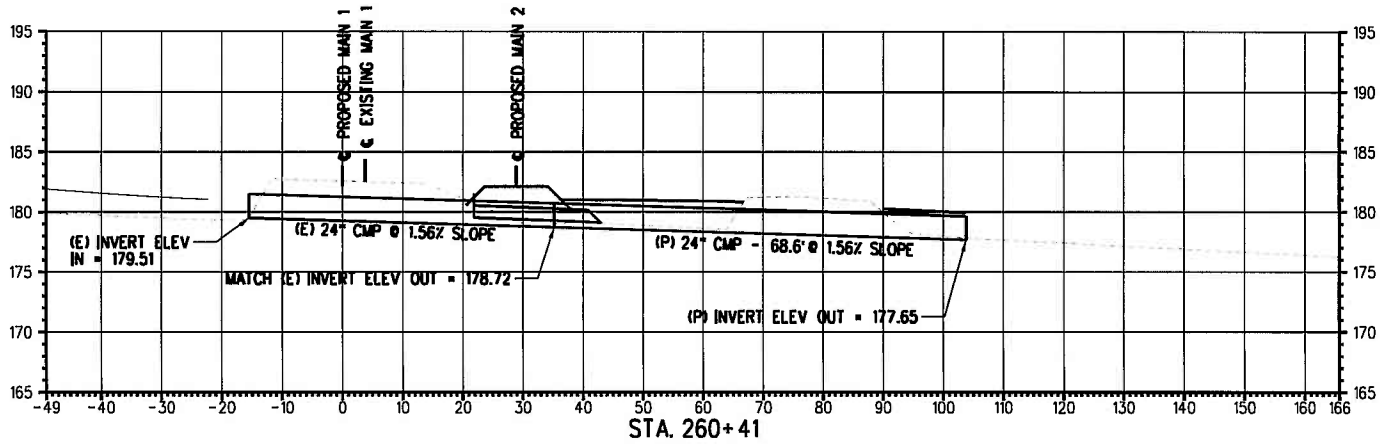
WETLAND IMPACTS

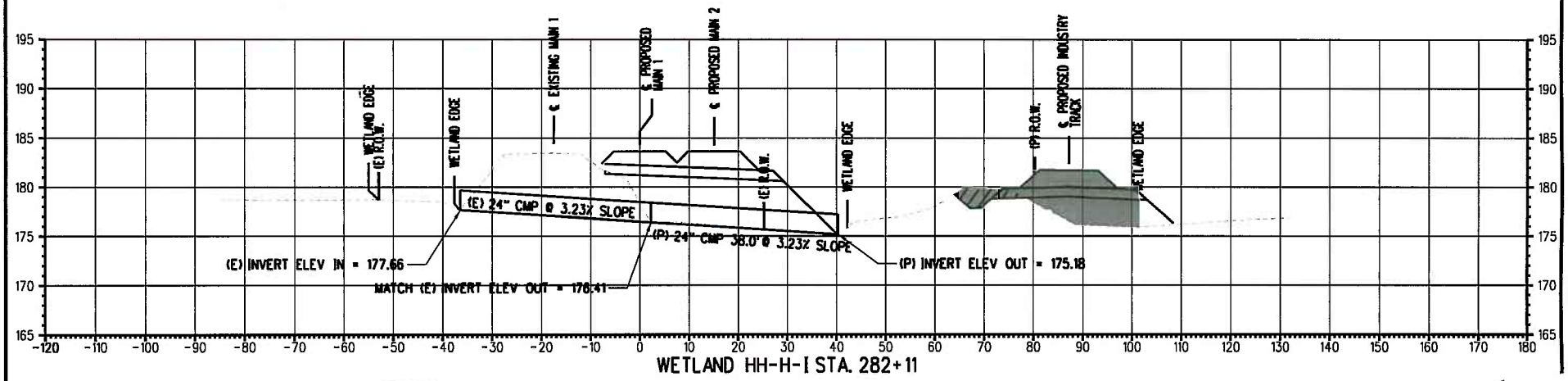
—— PROPOSED GRADE



DRAINAGE CROSS SECTION
STA. 260+05

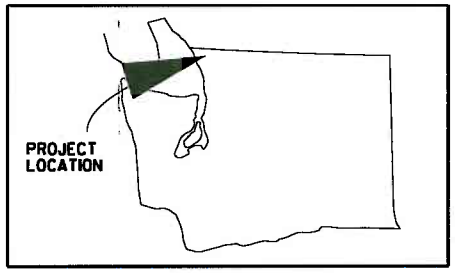
USACE REF NO.:
PROJECT: CUSTER SPUR IMPROVEMENTS (INTALCO WYE TO ELLIOTT YARD CAPACITY EXPANSION PROJECT)
APPLICANT: BNSF RAILWAY CO.
WATERWAY: CALIFORNIA CREEK; TERRELL CREEK
BNSF LOCATION: NW DIVISION, CHERRY POINT SUBDIVISION, LS 418
LEGAL: IN PORTIONS OF SECTIONS 26, 27, 28, 32, 33, T40N, R1E, AND SECTIONS 5, 8, 17, T39N, R1E
COUNTY: WHATCOM STATE: WASHINGTON
LAT/LONG START: N48.9218°; W122.6478°
LAT/LONG END: N48.8702°; W122.7094°
DATE: 08\12\2011 SHEET . OF





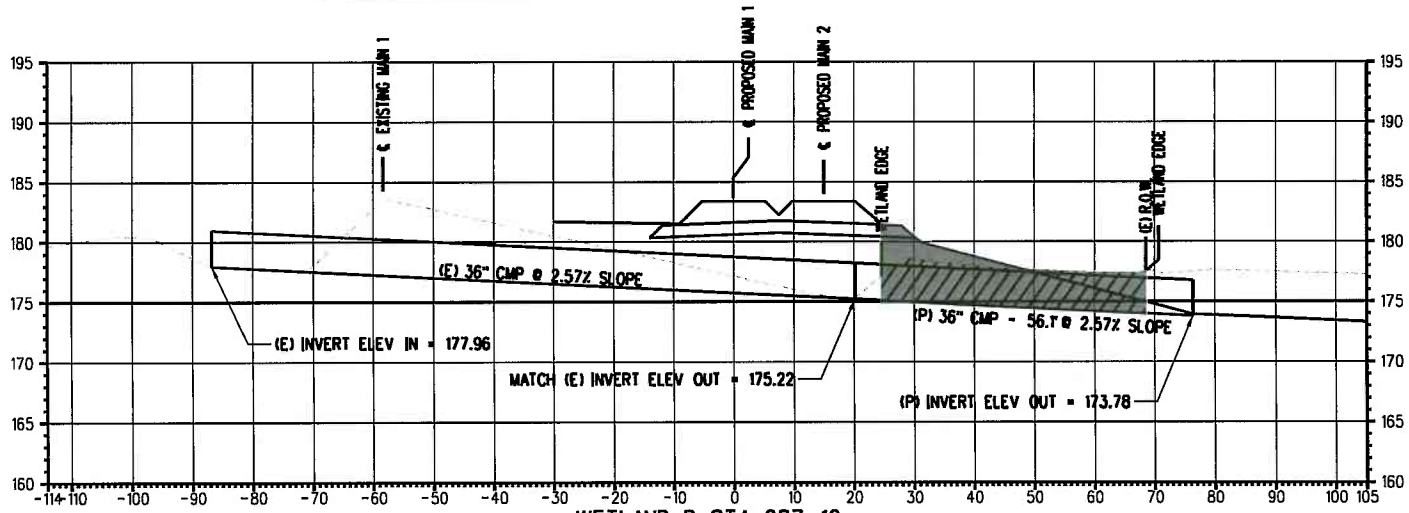
LEGEND

- EXISTING GROUND
- PROPOSED GRADE
- WETLAND EXCAVATION
- WETLAND IMPACTS

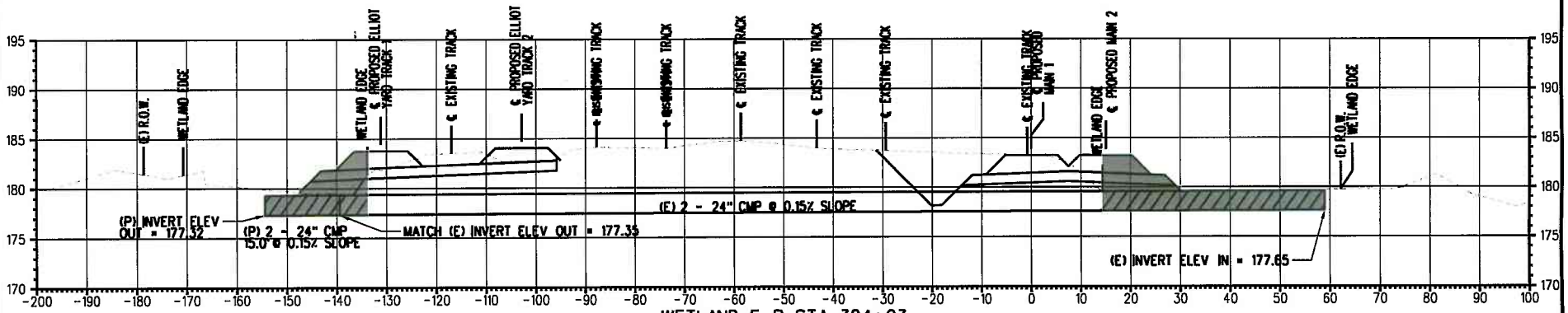


DRAINAGE CROSS SECTION
STA. 260+41 & STA. 282+11

USACE REF NO.:
PROJECT: CUSTER SPUR IMPROVEMENTS (INTALCO WYE TO ELLIOTT YARD CAPACITY EXPANSION PROJECT)
APPLICANT: BNSF RAILWAY CO.
WATERWAY: CALIFORNIA CREEK; TERRELL CREEK
BNSF LOCATION: NW DIVISION, CHERRY POINT SUBDIVISION, LS 418
LEGAL: IN PORTIONS OF SECTIONS 26, 27, 28, 32, 33, T40N, R1E, AND SECTIONS 5, 8, 17, T39N, R1E
COUNTY: WHATCOM STATE: WASHINGTON
LAT/LONG START: N48.9218°; W122.6478°
LAT/LONG END: N48.8702°; W122.7094°
DATE: 08\12\2011 SHEET OF



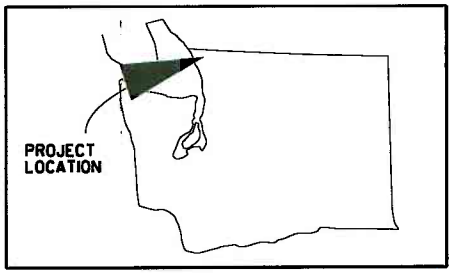
WETLAND D STA. 287+12



WETLAND F-B STA. 304+93

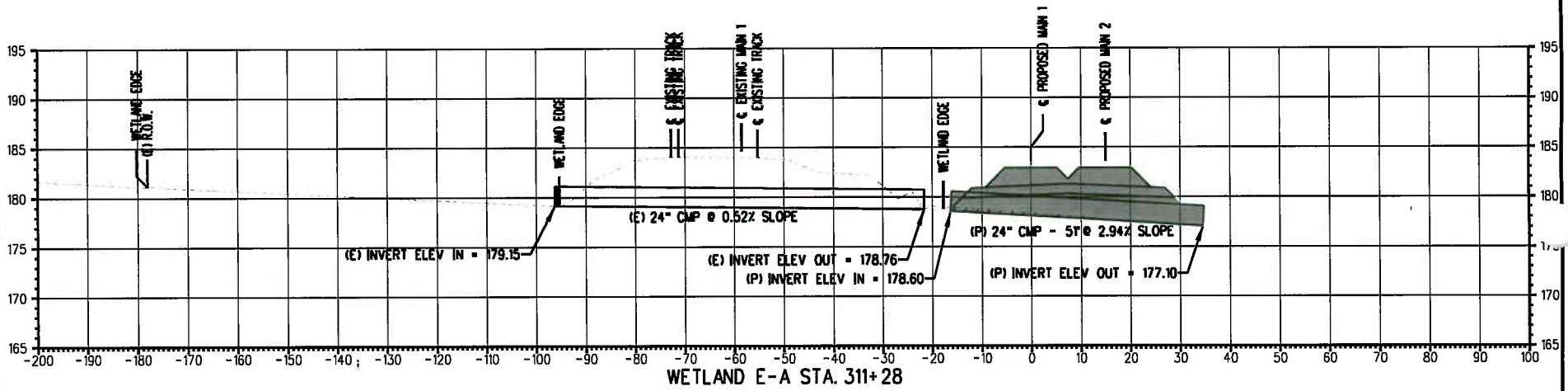
LEGEND

- EXISTING GROUND
- PROPOSED GRADE
- WETLAND EXCAVATION
- WETLAND IMPACTS



DRAINAGE CROSS SECTION
STA. 287+12 & STA. 304+93

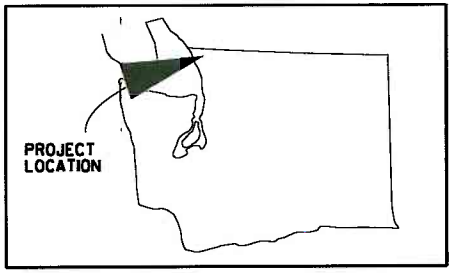
USACE REF NO.:
PROJECT: CUSTER SPUR IMPROVEMENTS (INTALCO WYE TO ELLIOTT YARD CAPACITY EXPANSION PROJECT)
APPLICANT: BNSF RAILWAY CO.
WATERWAY: CALIFORNIA CREEK; TERRELL CREEK
BNSF LOCATION: NW DIVISION, CHERRY POINT SUBDIVISION, LS 418
LEGAL: IN PORTIONS OF SECTIONS 26, 27, 28, 32, 33, T40N, R1E, AND SECTIONS 5, 8, 17, T39N, R1E
COUNTY: WHATCOM STATE: WASHINGTON
LAT/LONG START: N48.9218°; W122.6478°
LAT/LONG END: N48.8702°; W122.7094°
DATE: 08\12\2011 SHEET OF



WETLAND E-A STA. 311+28

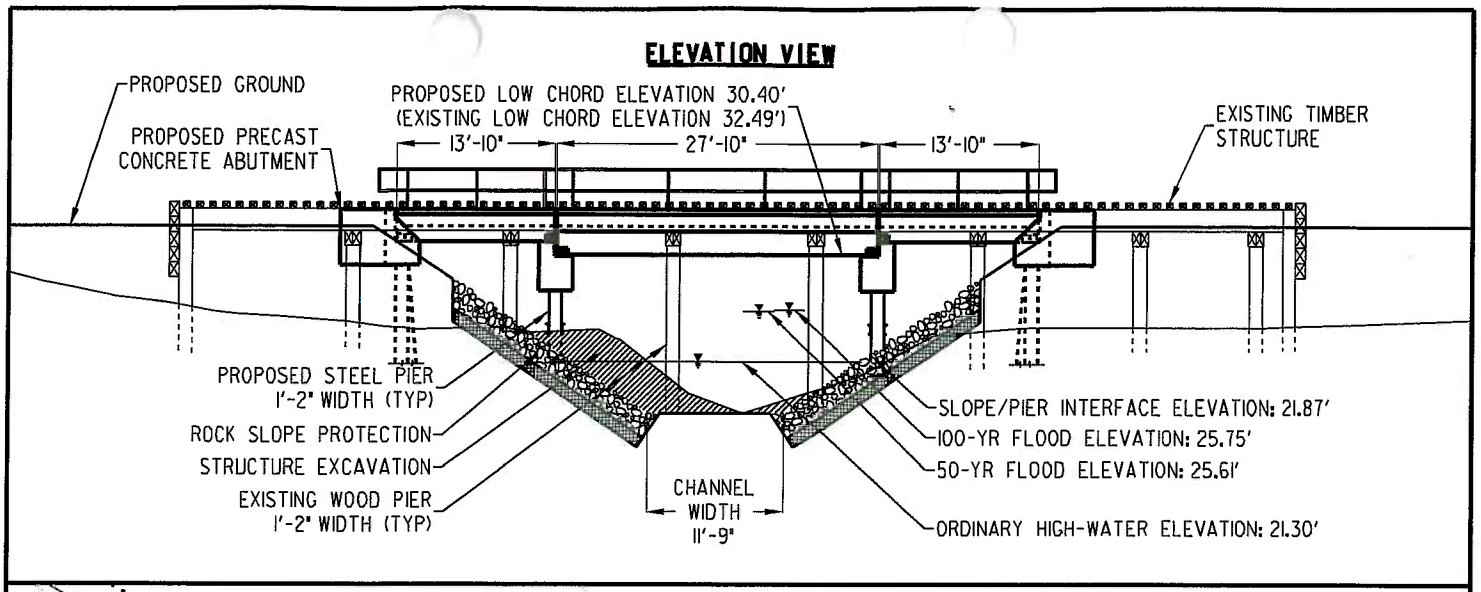
LEGEND

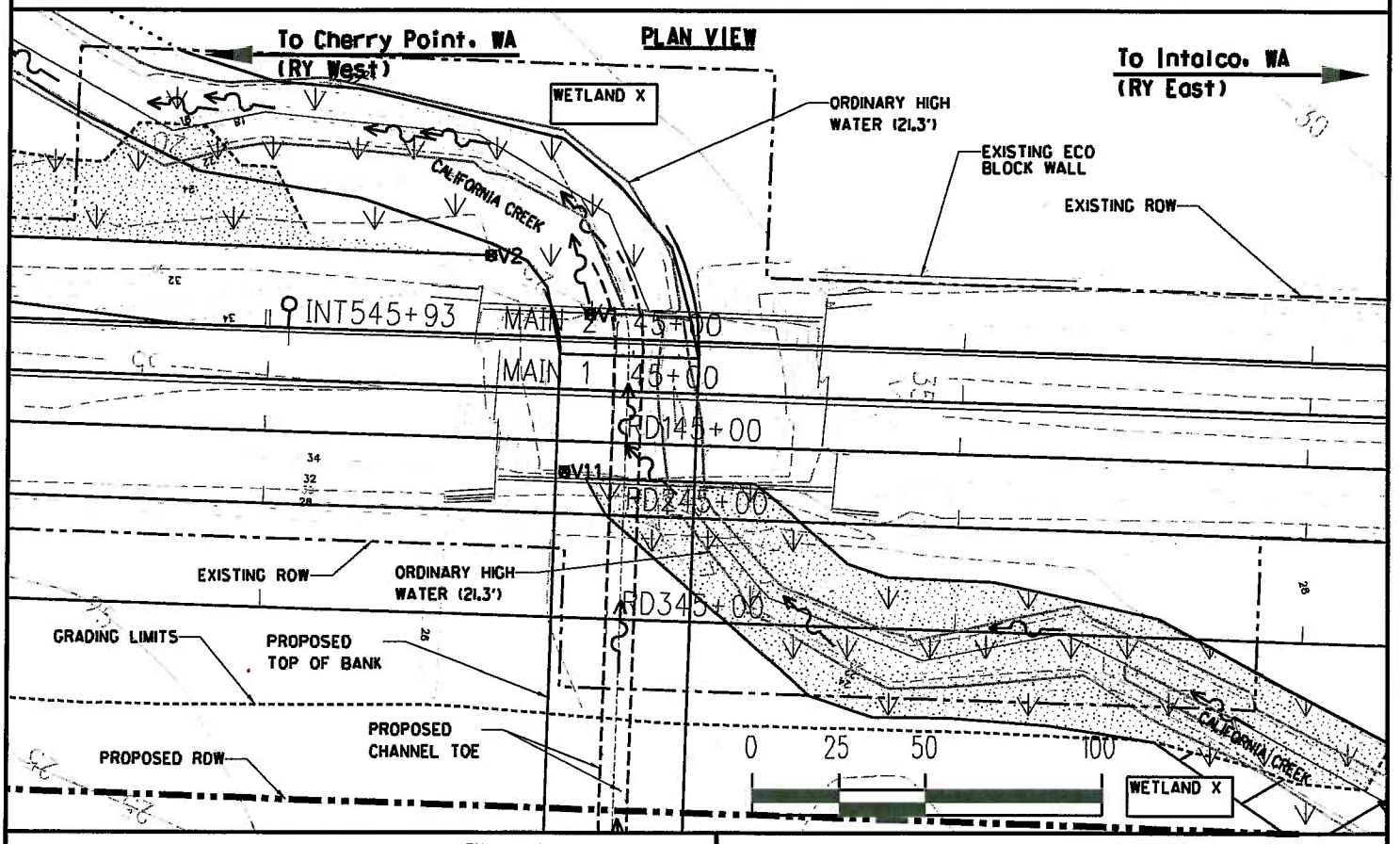
- EXISTING GROUND
- PROPOSED GRADE
- WETLAND EXCAVATION
- WETLAND IMPACTS



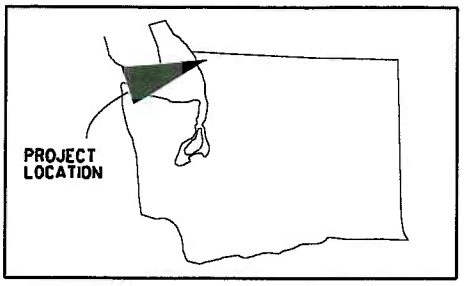
DRAINAGE CROSS SECTION
STA. 311+28

USACE REF NO.:
PROJECT: CUSTER SPUR IMPROVEMENTS (INTALCO WYE TO ELLIOTT YARD CAPACITY EXPANSION PROJECT)
APPLICANT: BNSF RAILWAY CO.
WATERWAY: CALIFORNIA CREEK; TERRELL CREEK
BNSF LOCATION: NW DIVISION, CHERRY POINT SUBDIVISION, LS 418
LEGAL: IN PORTIONS OF SECTIONS 26, 27, 28, 32, 33, T40N, R1E, AND SECTIONS 5, 8, 17, T39N, R1E
COUNTY: WHATCOM STATE: WASHINGTON
LAT/LONG START: N48.9218°; W122.6478°
LAT/LONG END: N48.8702°; W122.7094°
DATE: 08\12\2011 SHEET OF





DATA PLOT
WETLAND BOUNDARY
GRADING LIMIT BOUNDARY
ROW BOUNDARY
WETLAND EXTENDS BEYOND STUDY AREA
FLOW DIRECTION
WETLAND
WETLAND IMPACT
N

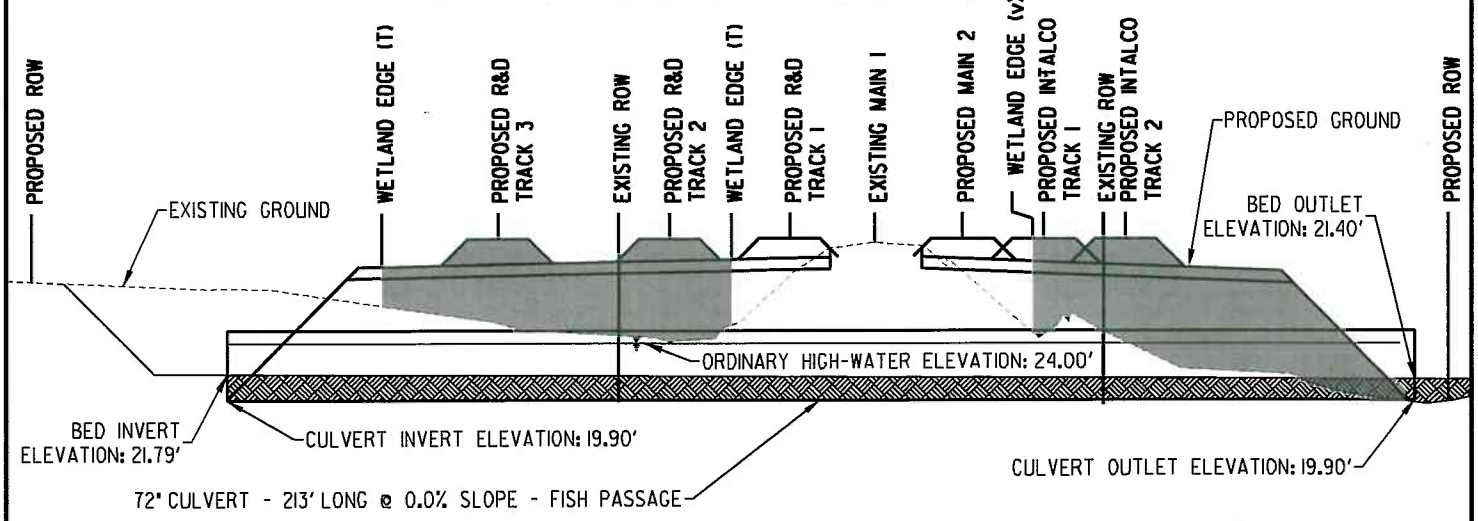


CALIFORNIA CREEK
BRIDGE 0.85 DETAIL (STA 45+00)

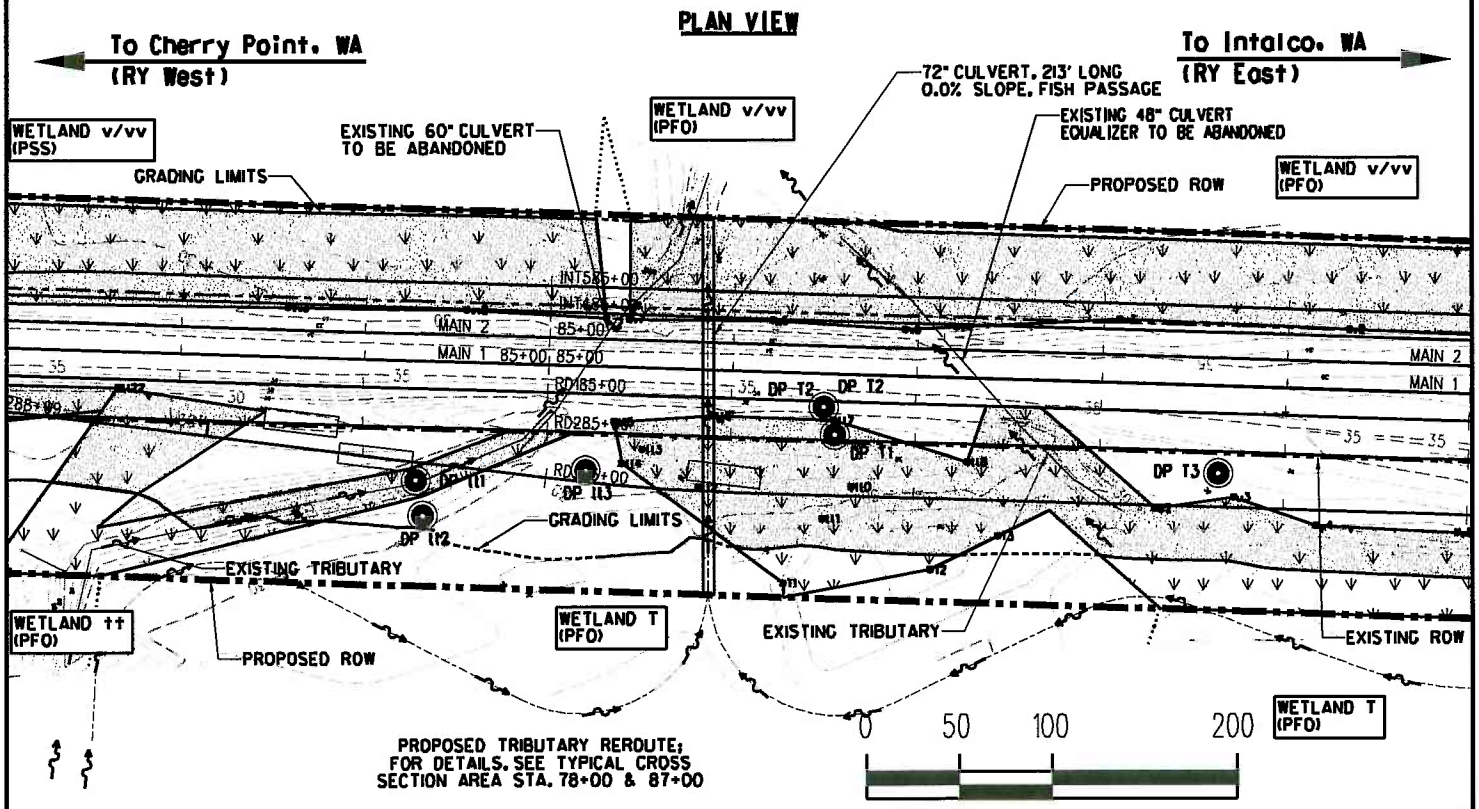
USACE REF NO.:
PROJECT: CUSTER SPUR IMPROVEMENTS (BNSF INTALCO WYE THROUGH ELLIOTT YARD CAPACITY EXPANSION PROJECT)
APPLICANT: BNSF RAILWAY CO.
WATERWAY: CALIFORNIA CREEK; TERRELL CREEK
BNSF LOCATION: NW DIVISION, CHERRY POINT SUBDIVISION, LS 418
LEGAL: IN PORTIONS OF SECTIONS 26, 27, 28, 32, 33, T40N, R1E, AND SECTIONS 5, 8, 17, T39N, R1E
COUNTY: WHATCOM STATE: WASHINGTON
LAT/LONG START: N48.9218°; W122.6478°
LAT/LONG END: N48.8702°; W122.7094°
DATE: 8/12/11

ELEVATION VIEW

NOTE: THIS DRAWING HAS A 2:1 VERTICAL DISTORTION TO SHOW DETAIL



PLAN VIEW



DATA PLOT

WETLAND BOUNDARY

GRADING LIMIT BOUNDARY

ROW BOUNDARY

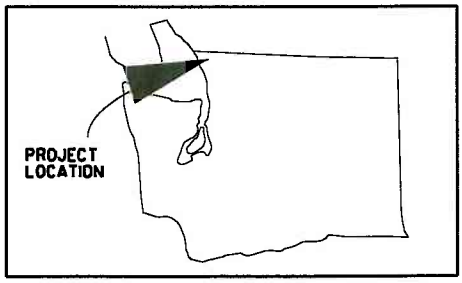
WETLAND EXTENDS BEYOND STUDY AREA

FLOW DIRECTION

WETLAND

WETLAND IMPACT

N



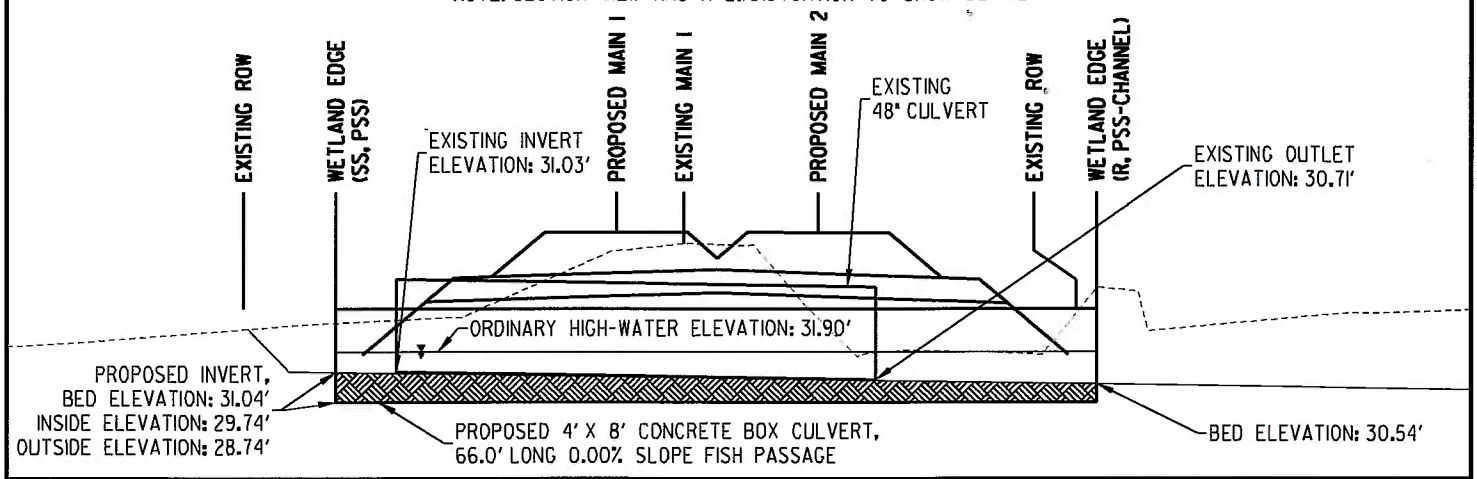
TRIBUTARY

CULVERT 1.60 DETAIL (STA 87+00)

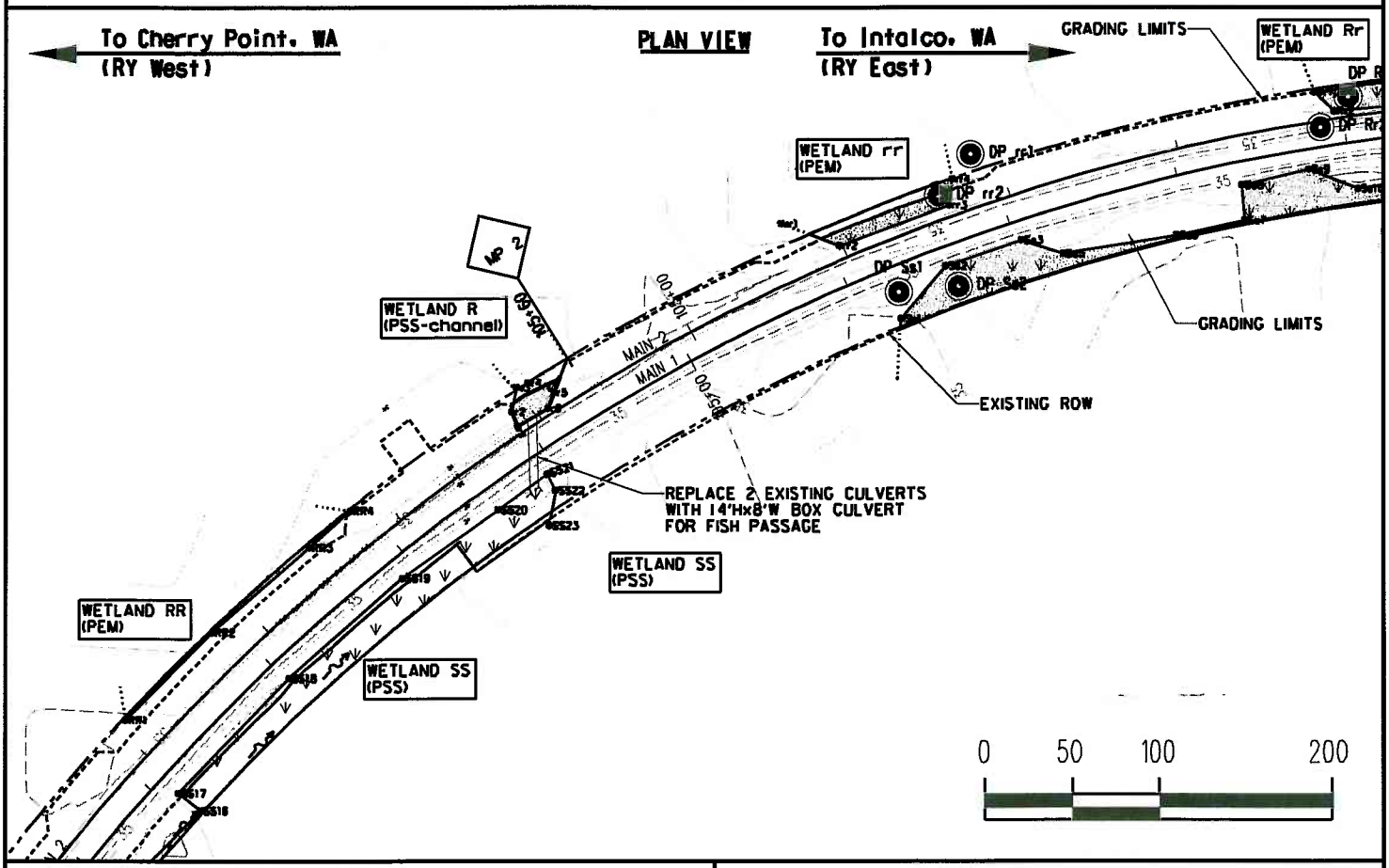
USACE REF NO.:
PROJECT: CUSTER SPUR IMPROVEMENTS (BNSF INTALCO WYE THROUGH ELLIOTT YARD CAPACITY EXPANSION PROJECT)
APPLICANT: BNSF RAILWAY CO.
WATERWAY: CALIFORNIA CREEK; TERRELL CREEK
BNSF LOCATION: NW DIVISION, CHERRY POINT SUBDIVISION, LS 418
LEGAL: IN PORTIONS OF SECTIONS 26, 27, 28, 32, 33, T40N, R1E, AND SECTIONS 5, 8, 17, T39N, R1E
COUNTY: WHATCOM STATE: WASHINGTON
LAT/LONG START: N48.9218°; W122.6478°
LAT/LONG END: N48.8702°; W122.7094°
DATE: 8/12/11

SECTION VIEW

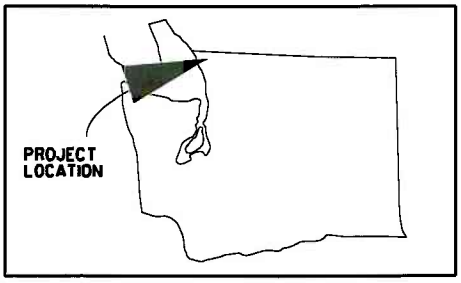
NOTE: SECTION VIEW HAS A 2:1 DISTORTION TO SHOW DETAIL



PLAN VIEW



DATA PLOT
WETLAND BOUNDARY
GRADING LIMIT BOUNDARY
ROW BOUNDARY
WETLAND EXTENDS BEYOND STUDY AREA
FLOW DIRECTION
WETLAND
WETLAND IMPACT



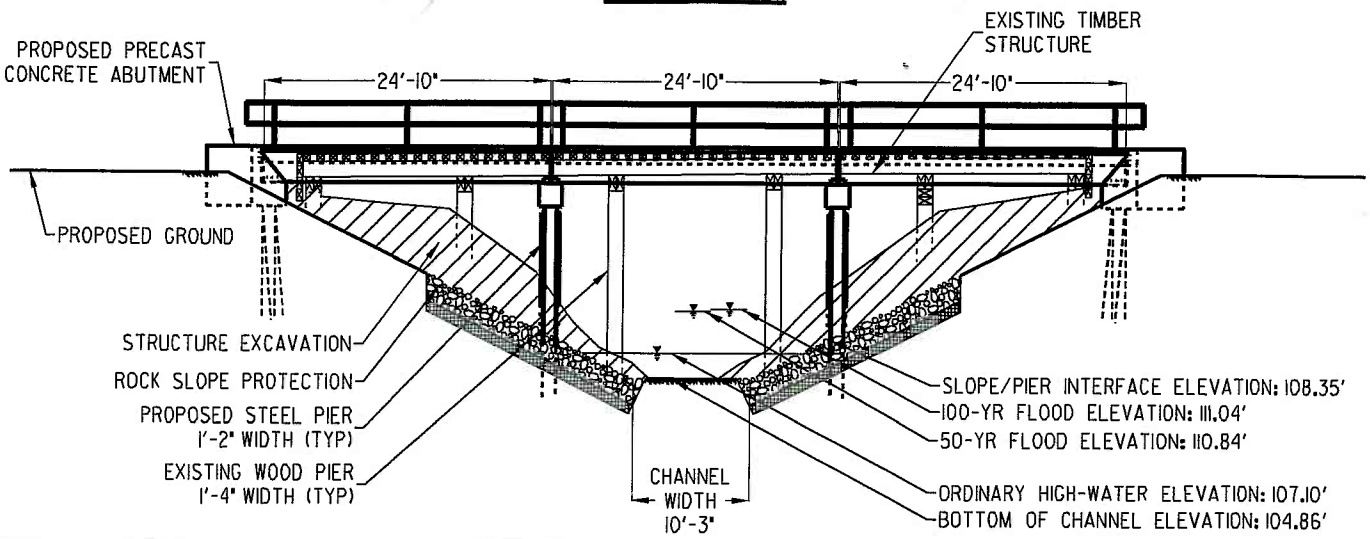
N

TRIBUTARY

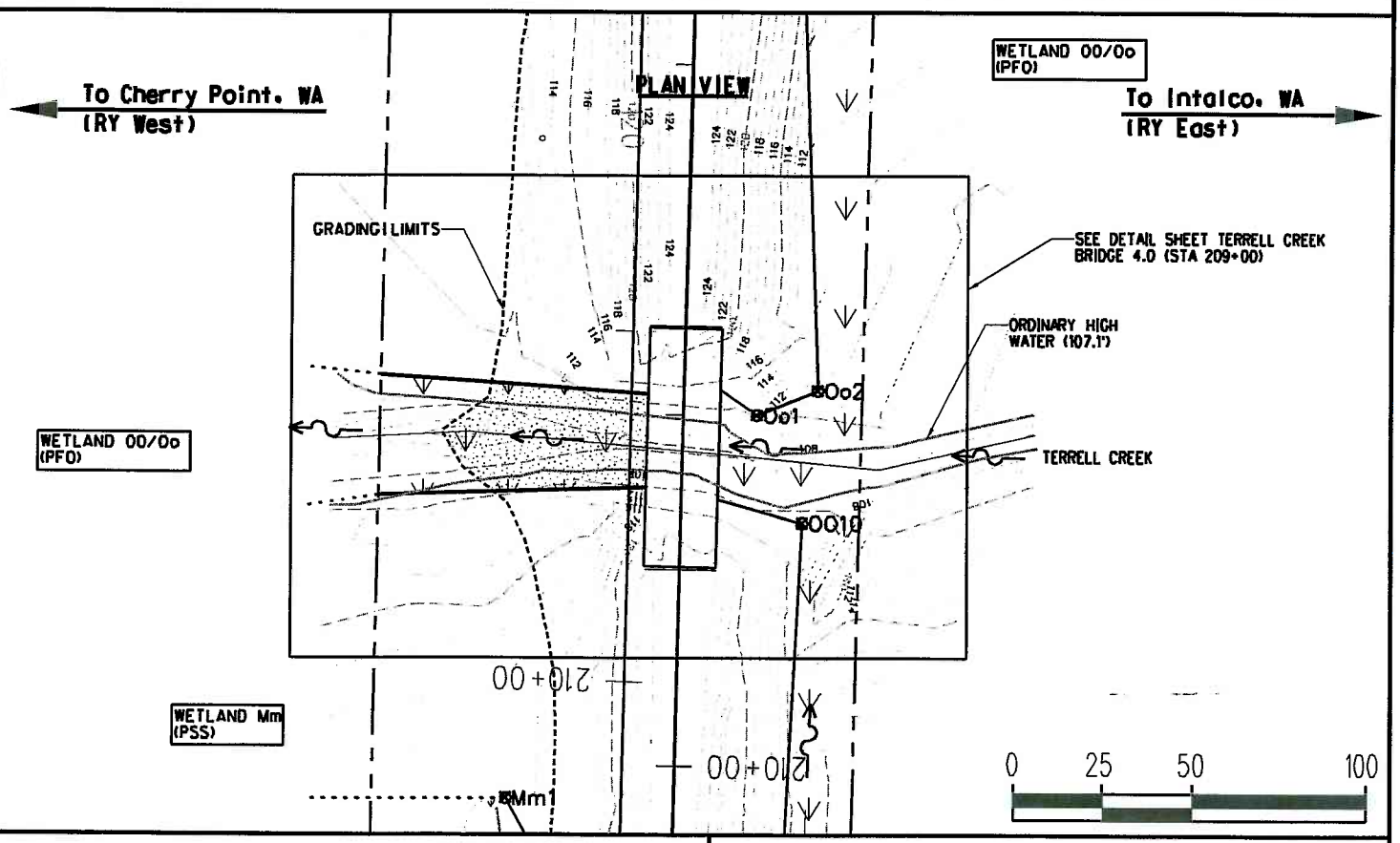
BOX CULVERT 2.01 DETAIL (STA 106+00)

USACE REF NO.:
PROJECT: CUSTER SPUR IMPROVEMENTS (BNSF INTALCO WYE THROUGH ELLIOTT YARD CAPACITY EXPANSION PROJECT)
APPLICANT: BNSF RAILWAY CO.
WATERWAY: CALIFORNIA CREEK; TERRELL CREEK
BNSF LOCATION: NW DIVISION, CHERRY POINT SUBDIVISION, LS 418
LEGAL: IN PORTIONS OF SECTIONS 26, 27, 28, 32, 33, T40N, R1E, AND SECTIONS 5, 8, 17, T39N, R1E
COUNTY: WHATCOM STATE: WASHINGTON
LAT/LONG START: N48.9218°; W122.6478°
LAT/LONG END: N48.8702°; W122.7094°
DATE: 7/22/11

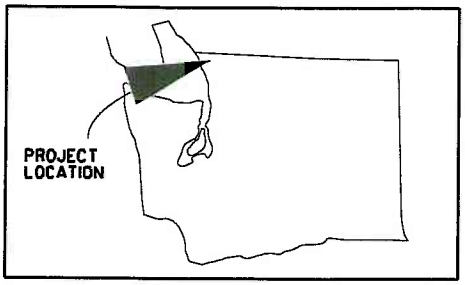
ELEVATION VIEW



PLAN VIEW



DATA PLOT
WETLAND BOUNDARY
GRADING LIMIT BOUNDARY
ROW BOUNDARY
WETLAND EXTENDS BEYOND STUDY AREA
FLOW DIRECTION
WETLAND
WETLAND IMPACT
N



TERRELL CREEK

BRIDGE 4.0 DETAIL (STA 209+00)

USACE REF NO.:
PROJECT: CUSTER SPUR IMPROVEMENTS (BNSF INTALCO WYE THROUGH ELLIOTT YARD CAPACITY EXPANSION PROJECT)
APPLICANT: BNSF RAILWAY CO.
WATERWAY: CALIFORNIA CREEK; TERRELL CREEK
BNSF LOCATION: NW DIVISION, CHERRY POINT SUBDIVISION, LS 418
LEGAL: IN PORTIONS OF SECTIONS 26, 27, 28, 32, 33, T40N, R1E, AND SECTIONS 5, 8, 17, T39N, R1E
COUNTY: WHATCOM STATE: WASHINGTON
LAT/LONG START: N48.9218°; W122.6478°
LAT/LONG END: N48.8702°; W122.7094°
DATE: 8/12/11