Willits Bypass Project
Mitigation and Monitoring Proposal

Appendices B, C, D, M and N

U.S. Highway 101

Mendocino County, near the City of Willits, California

PM 43.1-52.3

01-26200

USACE file no. 1991-194740N

January 2012

Caltrans
CALIFORNIA DEPARTMENT OF TRANSPORTATION

Appendix B
Aquatic Resources Impact Maps

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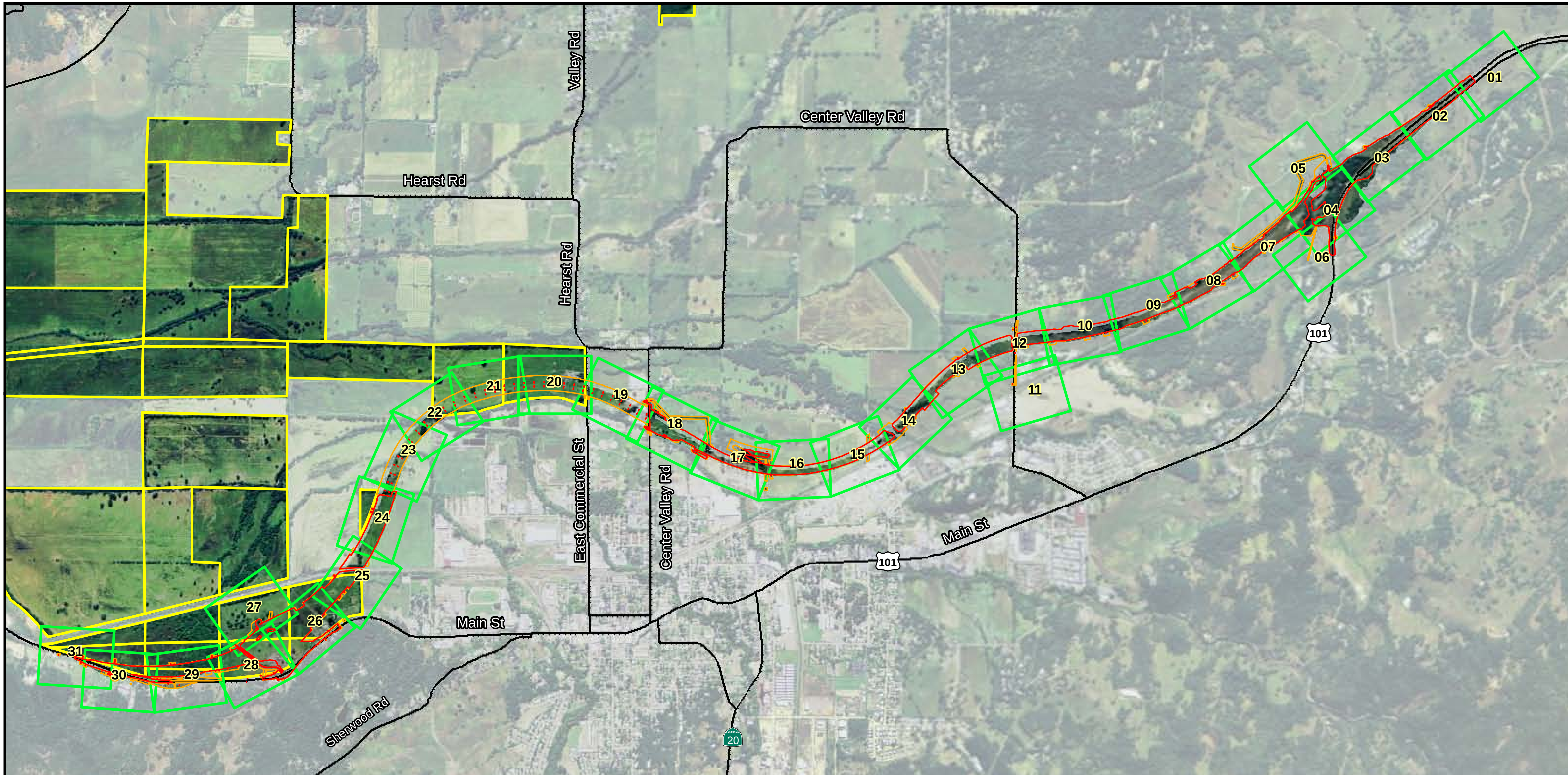
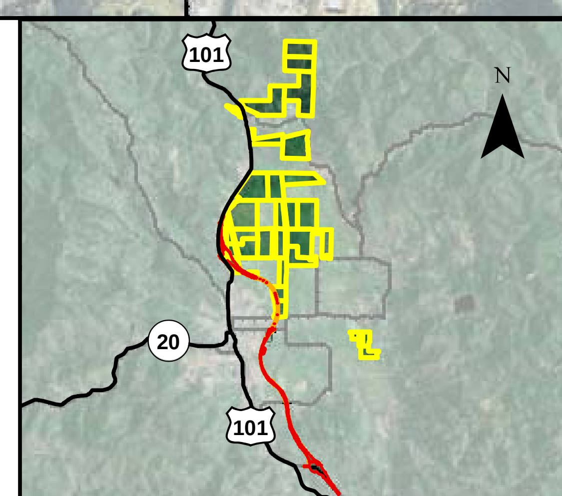


Map Sheet Number	Riparian Figure	Wetland Figure	Map Sheet Number	Riparian Figure	Wetland Figure	Map Sheet Number	Riparian Figure	Wetland Figure
01	B-1		12	B-21	B-22	22	B-41	B-42
02	B-2		13	B-23	B-24	23	B-43	B-44
03	B-3	B-4	14	B-25	B-26	24	B-45	B-46
04	B-5	B-6	15	B-27	B-28	25	B-47	B-48
05	B-7	B-8	16	B-29	B-30	26	B-49	B-50
06	B-9	B-10	17	B-31	B-32	27	B-51	B-52
07	B-11	B-12	18	B-33	B-34	28	B-53	B-54
08	B-13	B-14	19	B-35	B-36	29	B-55	B-56
09	B-15	B-16	20	B-37	B-38	30	B-57	B-58
10	B-17	B-18	21	B-39	B-40	31	B-59	B-60
11	B-19	B-20						



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Data Sources
Aerials - ArcGIS Online (NAIP 2005)
Alignment - Caltrans (02/01/2012)

N

Appendix B

Willits Bypass Sensitive Biological Resources Impact Maps

Legend

Alignment - Phase 1

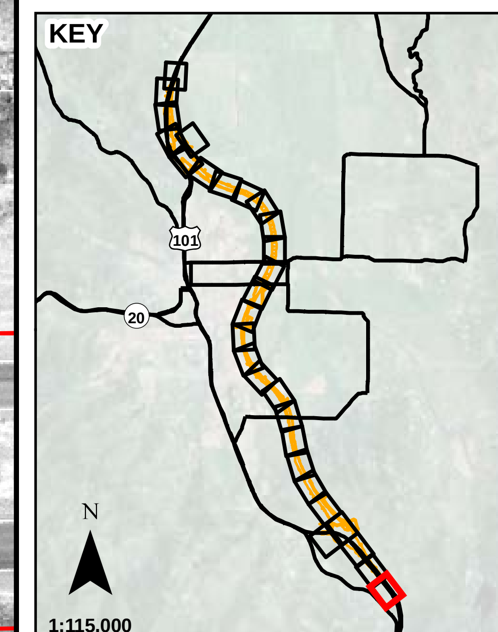
- Permanent Impact Boundary
- Temporary Impact Boundary
- Support Columns

Alignment - Phase 2

- Permanent
- Temporary
- Support Columns
- Parcel
- Offsite Mitigation Parcel

Sensitive Biological Resources

- Protected Fisheries Area
- Riparian Corridor Areas



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Scale in Feet

Sheet B-1

Riparian Habitat Impacts

Willits Bypass Project
Sensitive Biological Resources
Impact Maps

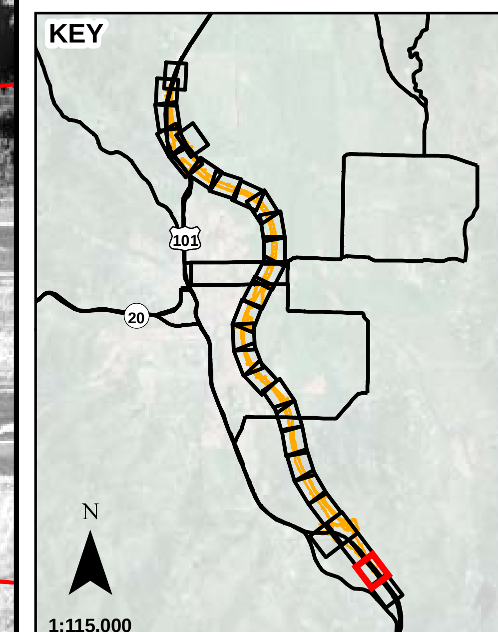
K: \ PROJECTS_1 \ CALTRANS \ 00543_09_WILLITS_FROM_URS \ MAPDOC \ APPENDIX_B \ CORPSHMMP \ WILLITS_HMMP_APPENDIX_B_RIPARIAN_OAKS_V14_CORP.MXD dS (02-01-12)

Legend

Alignment - Phase 1
- Permanent Impact Boundary
- Temporary Impact Boundary
- Support Columns

Alignment - Phase 2
- Permanent
- Temporary
- Support Columns
- Parcel
- Offsite Mitigation Parcel

Sensitive Biological Resources
- Protected Fisheries Area
- Riparian Corridor Areas



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Scale in Feet

Sheet B-2

Riparian Habitat Impacts

Willits Bypass Project
Sensitive Biological Resources
Impact Maps

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Legend

Alignment - Phase 1

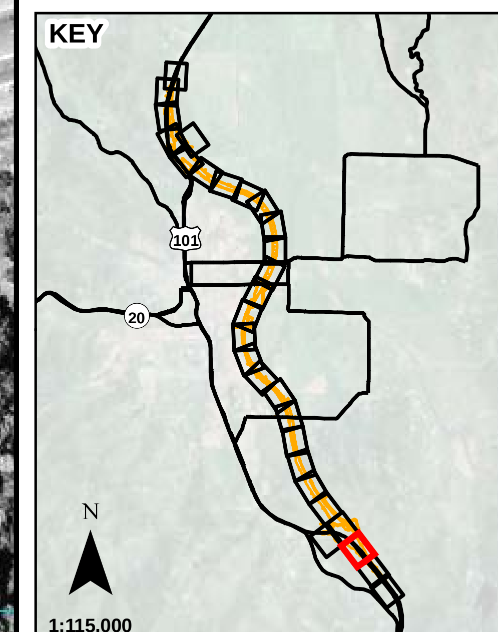
- Permanent Impact Boundary
- Temporary Impact Boundary
- Support Columns

Alignment - Phase 2

- Permanent
- Temporary
- Support Columns
- Parcel
- Offsite Mitigation Parcel

Sensitive Biological Resources

- Protected Fisheries Area
- Riparian Corridor Areas



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Scale in Feet

Sheet B-3

Riparian Habitat Impacts

Willits Bypass Project
Sensitive Biological Resources
Impact Maps

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Legend

Alignment - Phase 1

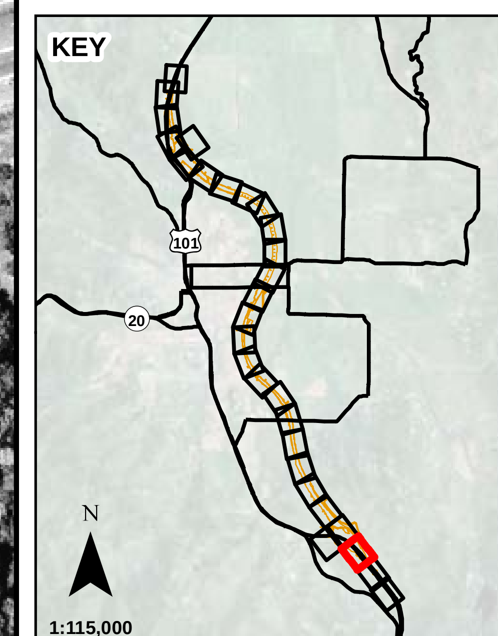
- Permanent Impact Boundary
- Temporary Impact Boundary
- Support Columns

Alignment - Phase 2

- Permanent
- Temporary
- Support Columns
- Parcel
- Offsite Mitigation Parcel

Jurisdictional Wetlands and Other Waters

- Marsh
- Riparian Wetland
- Swale
- Vernal Pool
- Wet Meadow
- Other Waters



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Scale in Feet

Sheet B-4

Jurisdictional Wetland Impacts

Willits Bypass
Sensitive Biological Resources
Impact Maps

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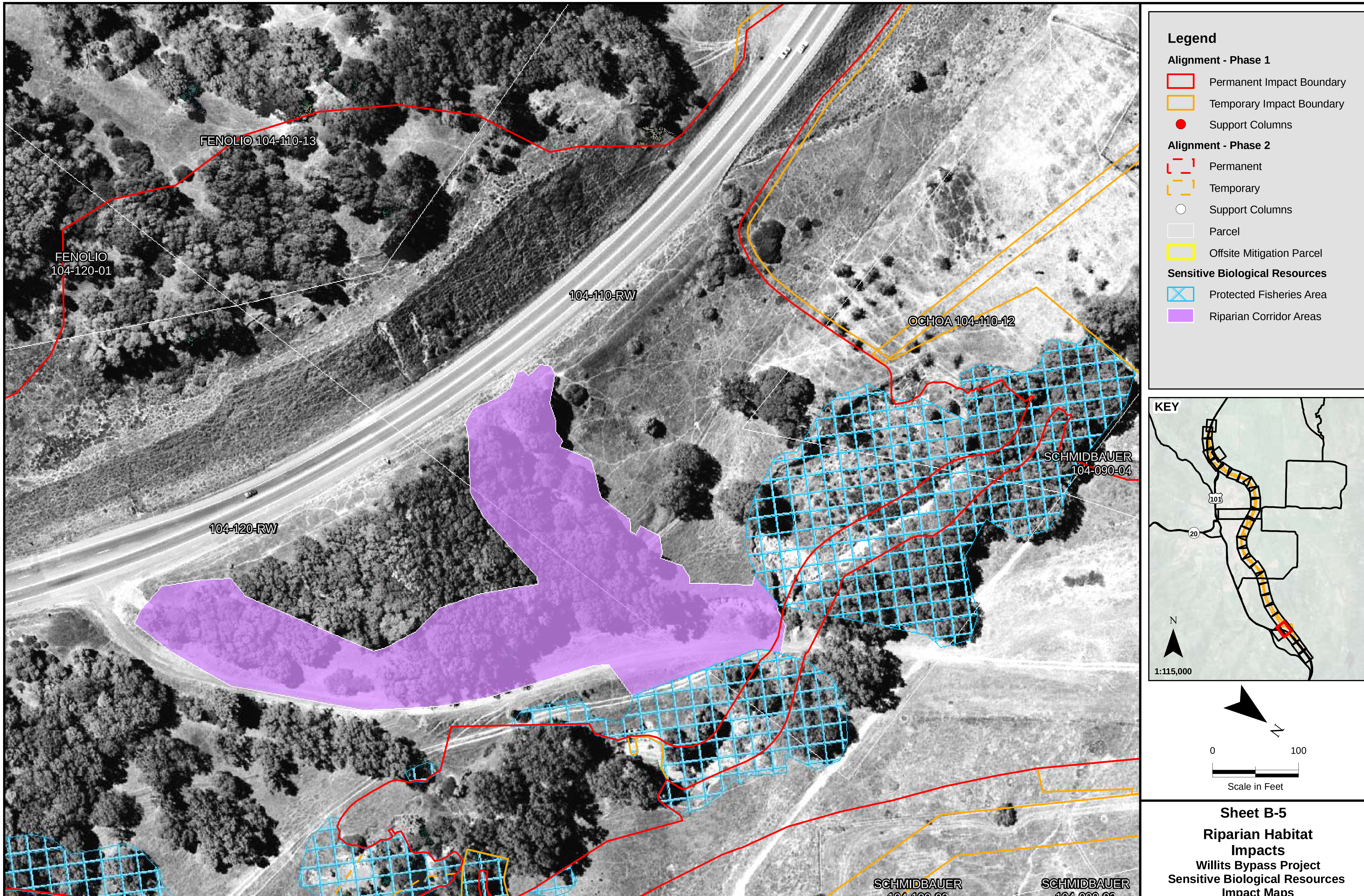

Sheet B-5

Riparian Habitat Impacts

Willits Bypass Project
Sensitive Biological Resources
Impact Maps

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Legend

Alignment - Phase 1

Permanent Impact Boundary

Temporary Impact Boundary

Support Columns

Alignment - Phase 2

Permanent

Temporary

Support Columns

Parcel

Offsite Mitigation Parcel

Jurisdictional Wetlands and Other Waters

Marsh

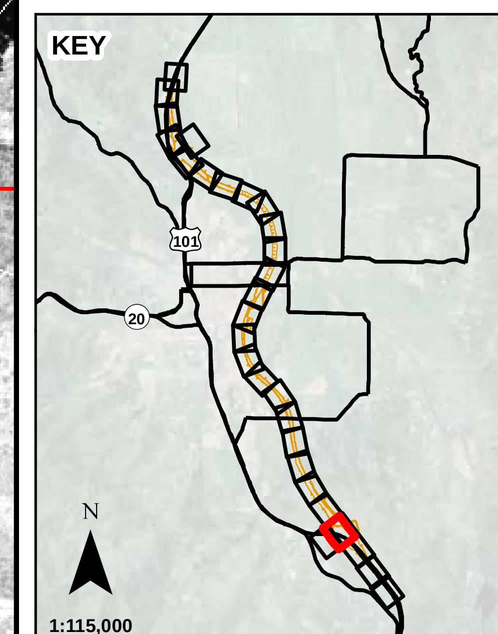
Riparian Wetland

Swale

Vernal Pool

Wet Meadow

Other Waters



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Scale in Feet

Sheet B-6

Jurisdictional Wetland Impacts

Willits Bypass

Sensitive Biological Resources

Impact Maps

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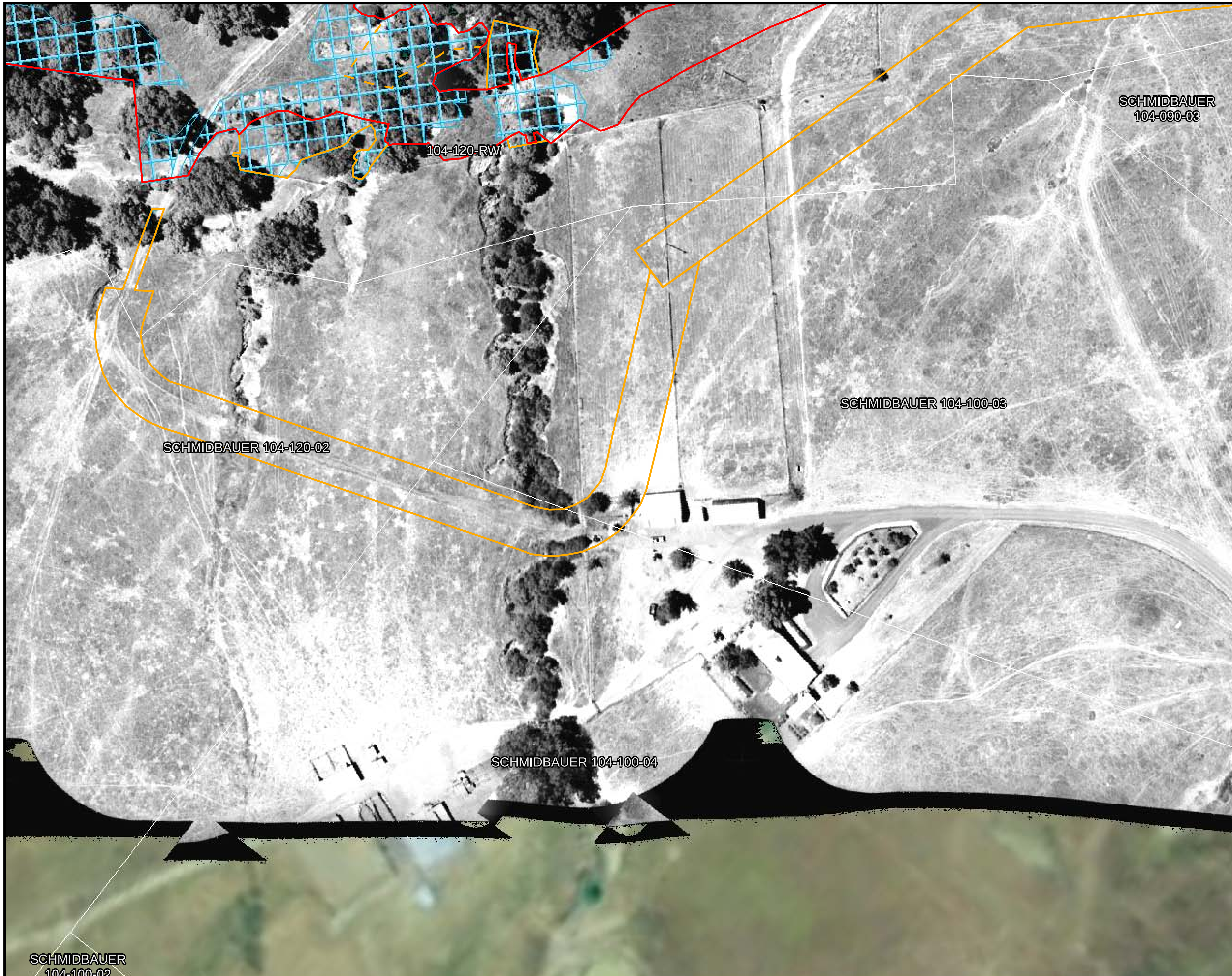


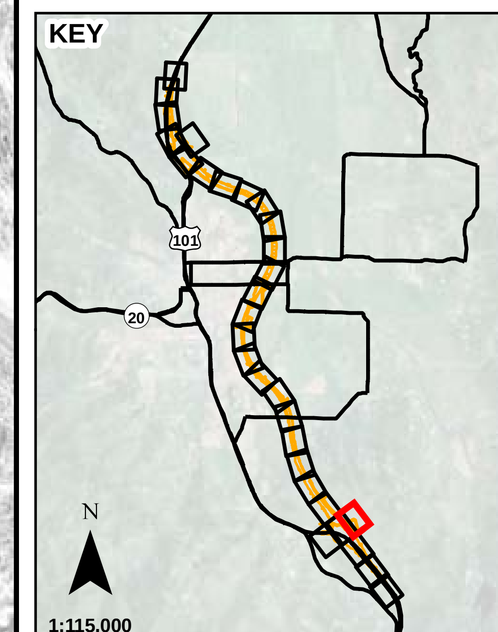
Legend

Alignment - Phase 1
- Permanent Impact Boundary
- Temporary Impact Boundary
- Support Columns

Alignment - Phase 2
- Permanent
- Temporary
- Support Columns
- Parcel
- Offsite Mitigation Parcel

Sensitive Biological Resources
- Protected Fisheries Area
- Riparian Corridor Areas

KEY



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Scale in Feet

Sheet B-7

Riparian Habitat Impacts

Willits Bypass Project
Sensitive Biological Resources
Impact Maps

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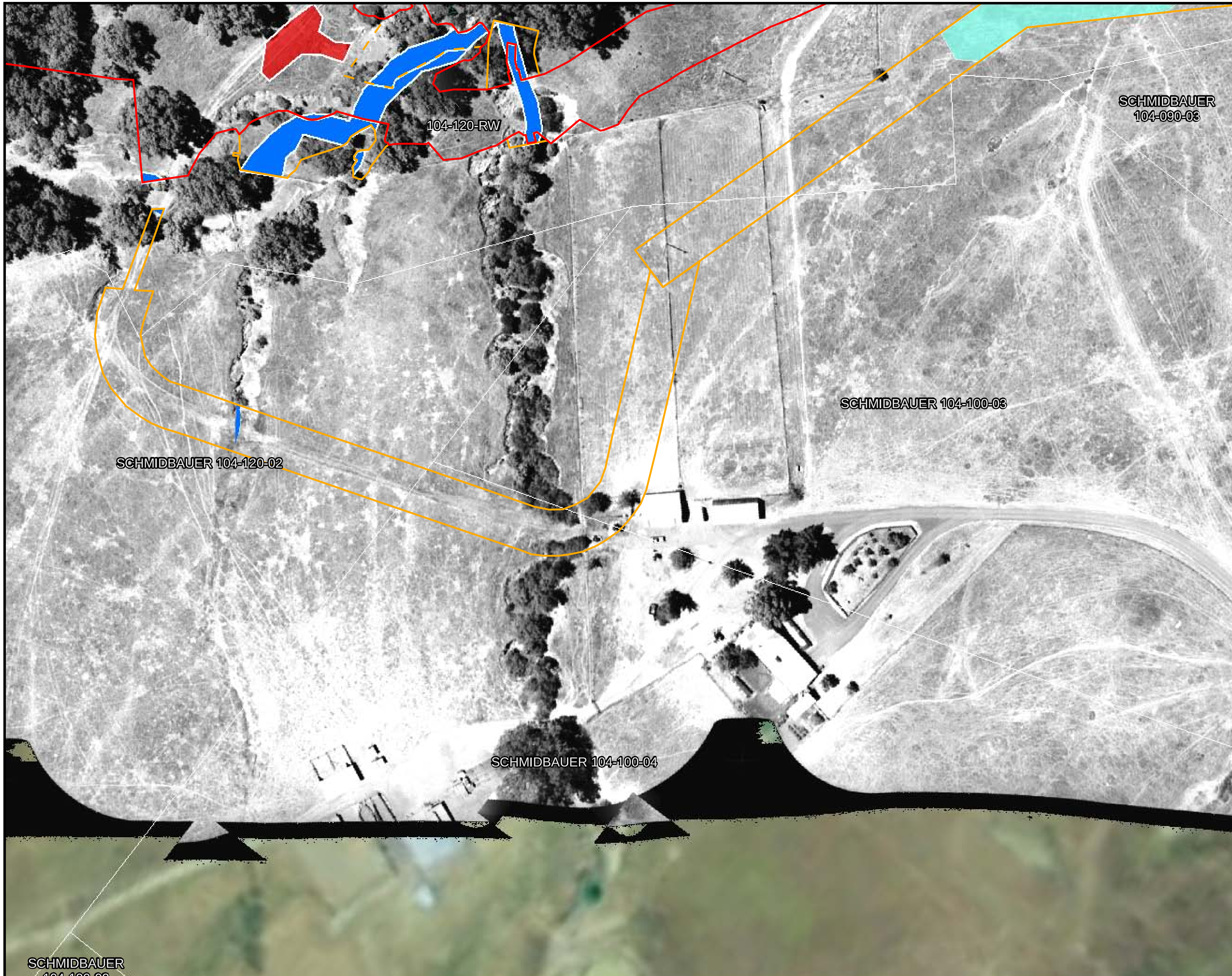
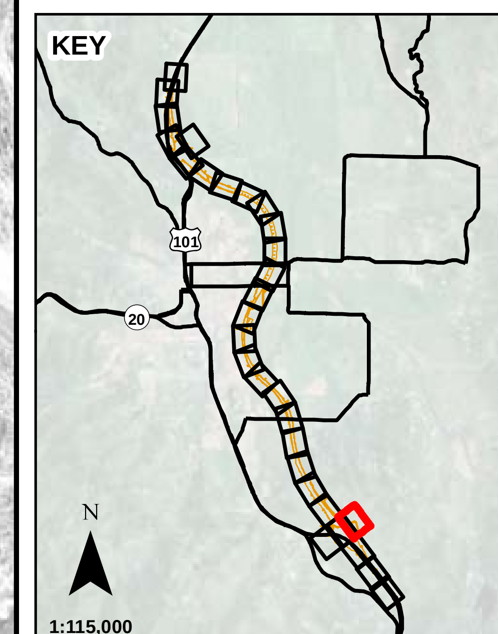


Legend

Alignment - Phase 1
- Permanent Impact Boundary
- Temporary Impact Boundary
- Support Columns

Alignment - Phase 2
- Permanent
- Temporary
- Support Columns
- Parcel
- Offsite Mitigation Parcel

Jurisdictional Wetlands and Other Waters
- Marsh
- Riparian Wetland
- Swale
- Vernal Pool
- Wet Meadow
- Other Waters



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Scale in Feet

Sheet B-8

Jurisdictional Wetland Impacts

Willits Bypass
Sensitive Biological Resources
Impact Maps

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Sheet B-9

Riparian Habitat Impacts

Willits Bypass Project
Sensitive Biological Resources
Impact Maps

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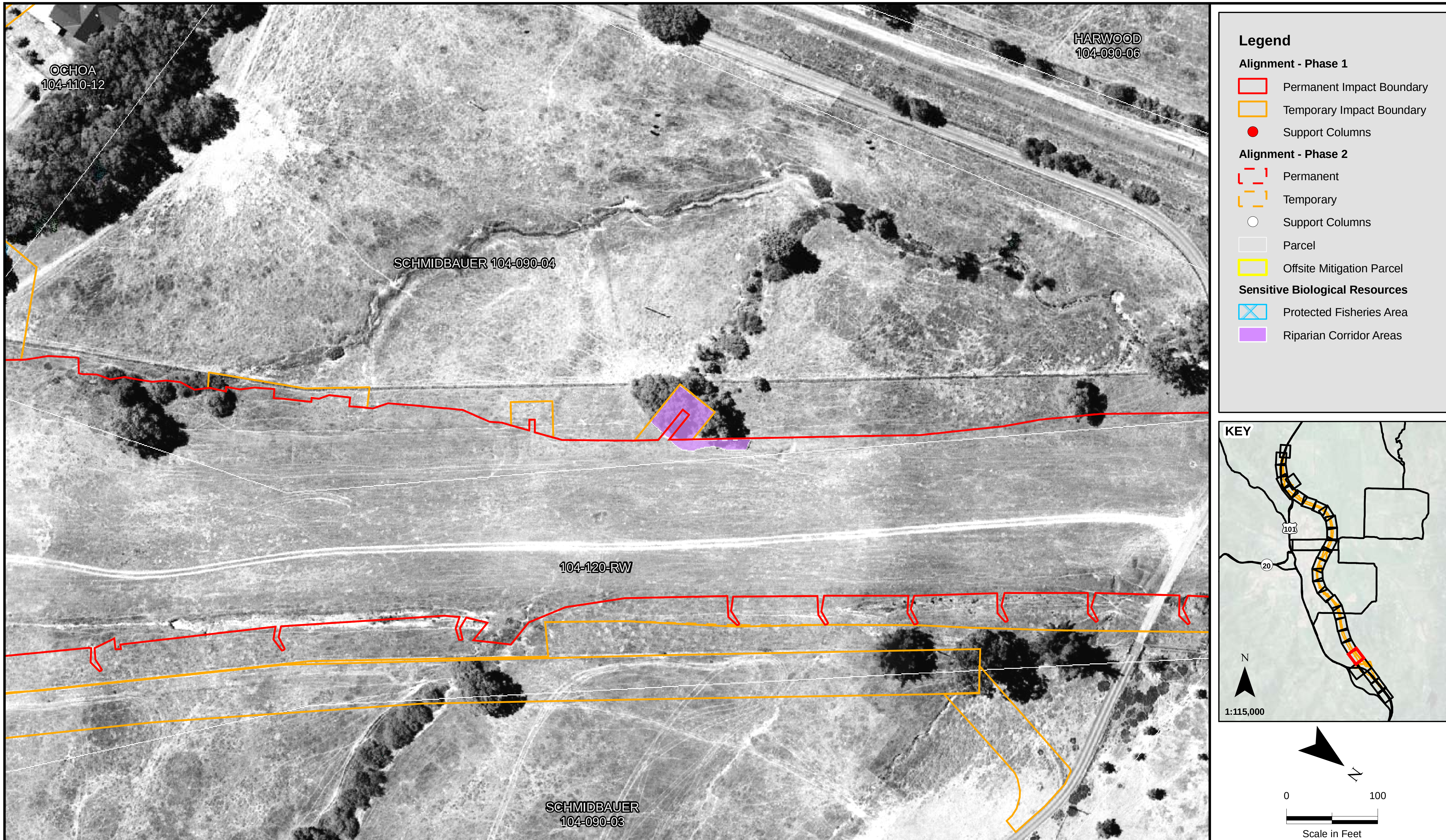

Sheet B-11

Riparian Habitat Impacts

Willits Bypass Project
Sensitive Biological Resources Impact Maps

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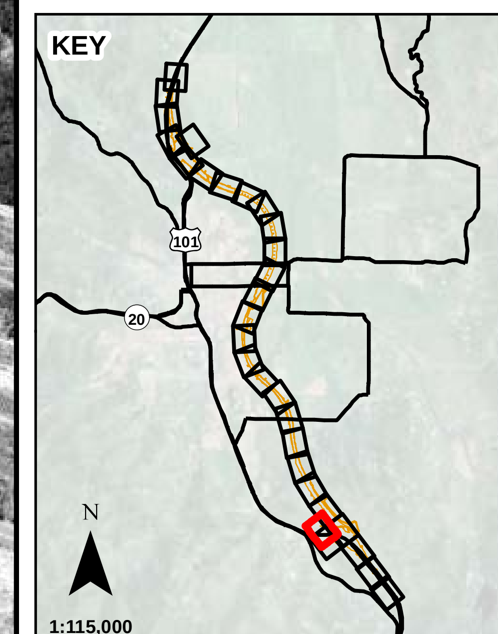
Legend

Alignment - Phase 1
- Permanent Impact Boundary
- Temporary Impact Boundary
- Support Columns

Alignment - Phase 2
- Permanent
- Temporary
- Support Columns
- Parcel
- Offsite Mitigation Parcel

Jurisdictional Wetlands and Other Waters
- Marsh
- Riparian Wetland
- Swale
- Vernal Pool
- Wet Meadow
- Other Waters



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Scale in Feet

Sheet B-10

Jurisdictional Wetland Impacts

Willits Bypass
Sensitive Biological Resources
Impact Maps

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Legend

Alignment - Phase 1

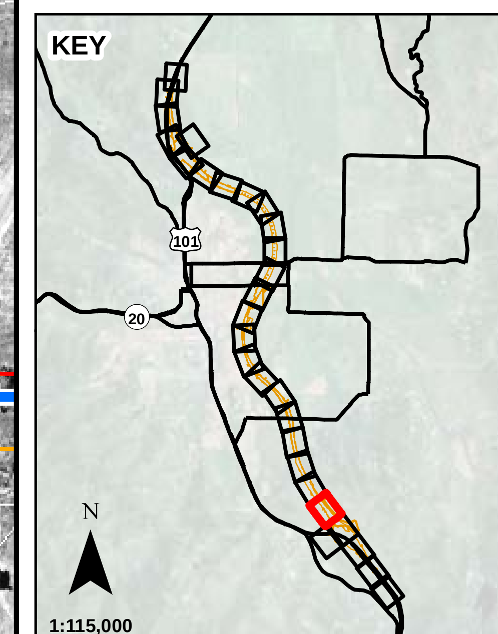
- Permanent Impact Boundary
- Temporary Impact Boundary
- Support Columns

Alignment - Phase 2

- Permanent
- Temporary
- Support Columns
- Parcel
- Offsite Mitigation Parcel

Jurisdictional Wetlands and Other Waters

- Marsh
- Riparian Wetland
- Swale
- Vernal Pool
- Wet Meadow
- Other Waters



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Scale in Feet

Sheet B-12

Jurisdictional Wetland Impacts

Willits Bypass

Sensitive Biological Resources

Impact Maps

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Legend

Alignment - Phase 1

- Permanent Impact Boundary
- Temporary Impact Boundary
- Support Columns

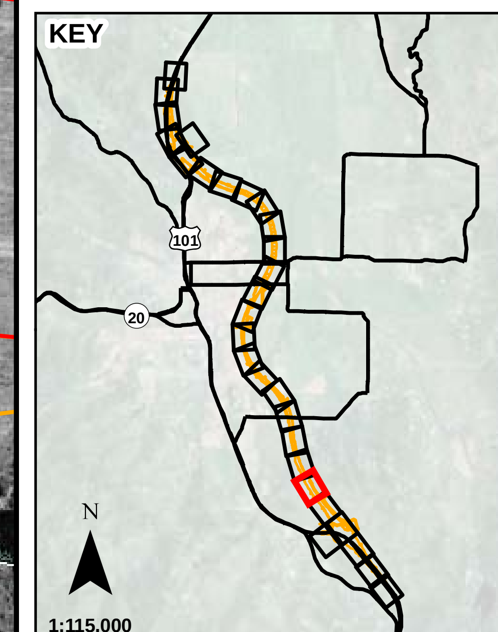
Alignment - Phase 2

- Permanent
- Temporary
- Support Columns
- Parcel
- Offsite Mitigation Parcel

Sensitive Biological Resources

- Protected Fisheries Area
- Riparian Corridor Areas

KEY



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Scale in Feet

Sheet B-13

Riparian Habitat Impacts

Willits Bypass Project
Sensitive Biological Resources
Impact Maps

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Legend

Alignment - Phase 1

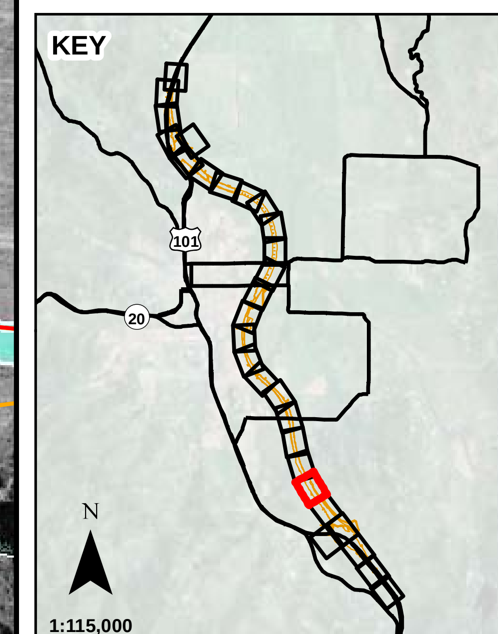
- Permanent Impact Boundary
- Temporary Impact Boundary
- Support Columns

Alignment - Phase 2

- Permanent
- Temporary
- Support Columns
- Parcel
- Offsite Mitigation Parcel

Jurisdictional Wetlands and Other Waters

- Marsh
- Riparian Wetland
- Swale
- Vernal Pool
- Wet Meadow
- Other Waters



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Scale in Feet

Sheet B-14

Jurisdictional Wetland Impacts

Willits Bypass
Sensitive Biological Resources
Impact Maps

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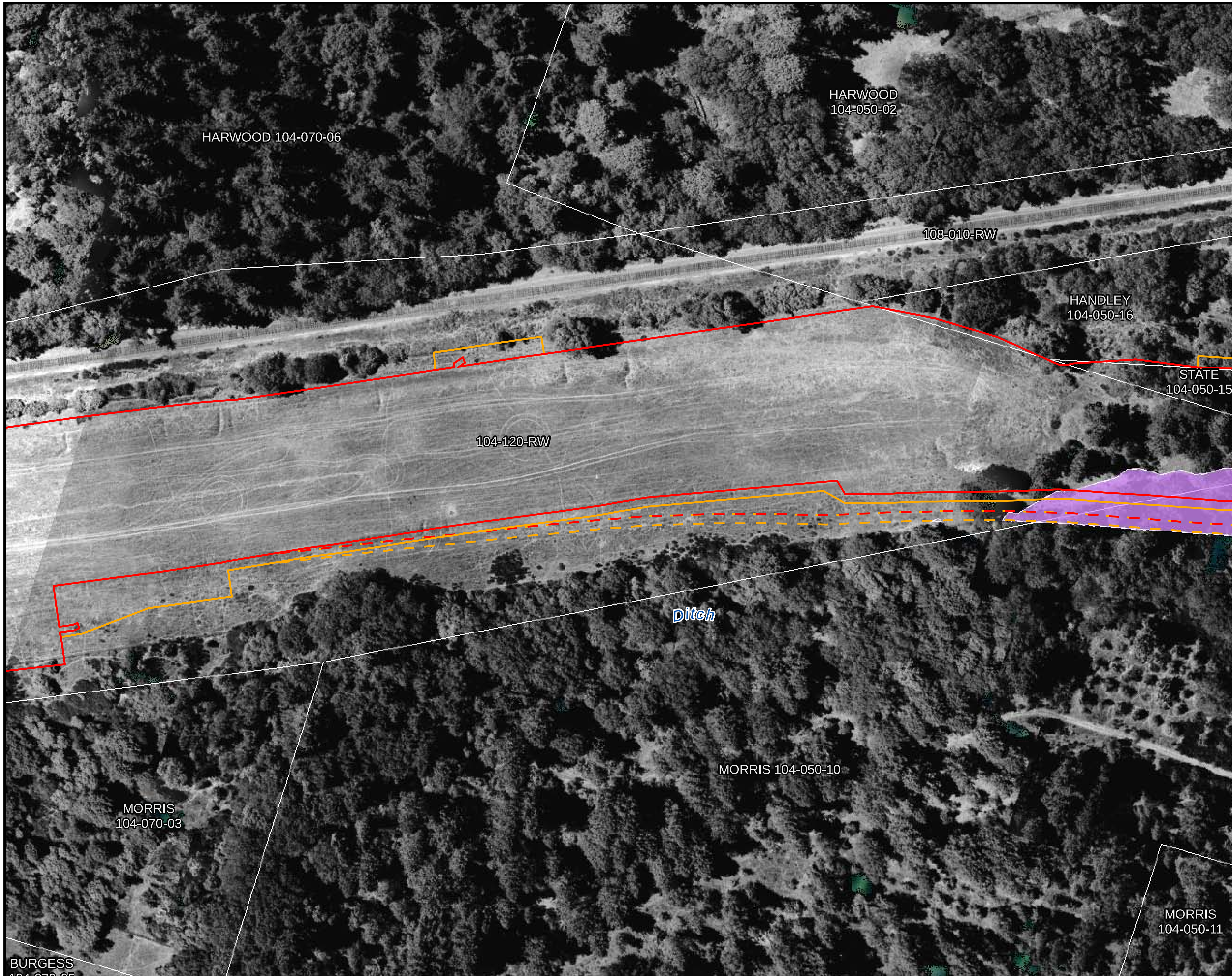


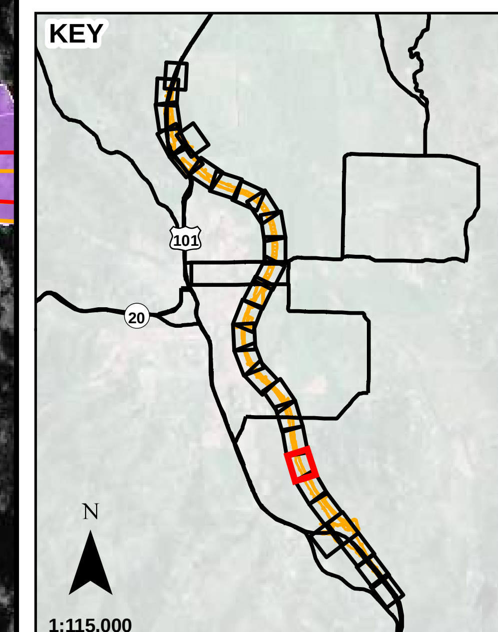
Legend

Alignment - Phase 1
- Permanent Impact Boundary
- Temporary Impact Boundary
- Support Columns

Alignment - Phase 2
- Permanent
- Temporary
- Support Columns
- Parcel
- Offsite Mitigation Parcel

Sensitive Biological Resources
- Protected Fisheries Area
- Riparian Corridor Areas

KEY



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Scale in Feet

Sheet B-15

Riparian Habitat Impacts

Willits Bypass Project
Sensitive Biological Resources
Impact Maps

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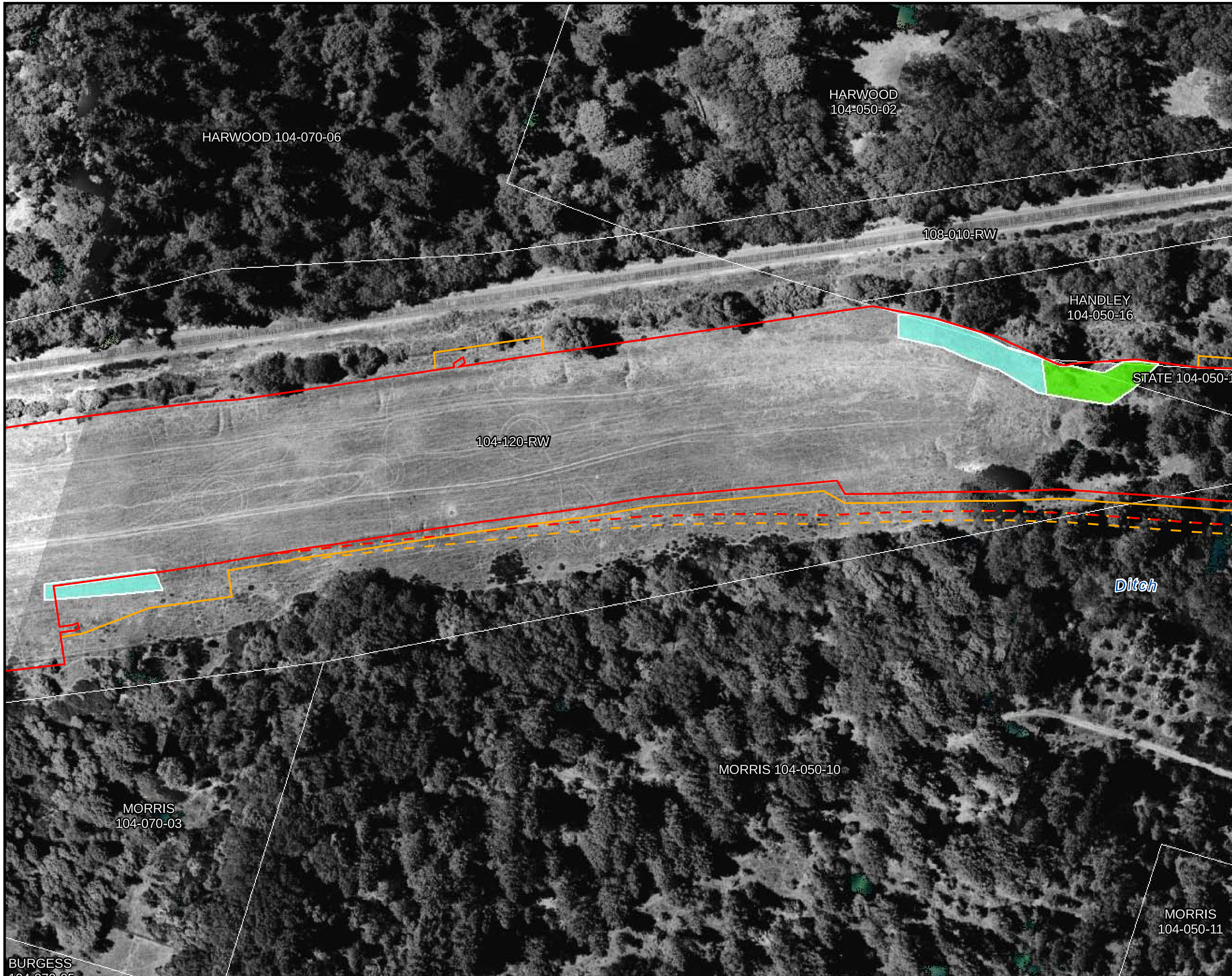
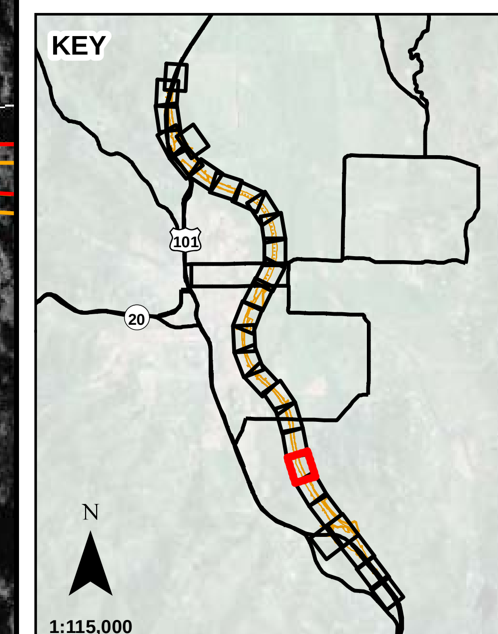


Legend

Alignment - Phase 1
- Permanent Impact Boundary
- Temporary Impact Boundary
- Support Columns

Alignment - Phase 2
- Permanent
- Temporary
- Support Columns
- Parcel
- Offsite Mitigation Parcel

Jurisdictional Wetlands and Other Waters
- Marsh
- Riparian Wetland
- Swale
- Vernal Pool
- Wet Meadow
- Other Waters



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Scale in Feet

Sheet B-16

Jurisdictional Wetland Impacts

Willits Bypass

Sensitive Biological Resources

Impact Maps

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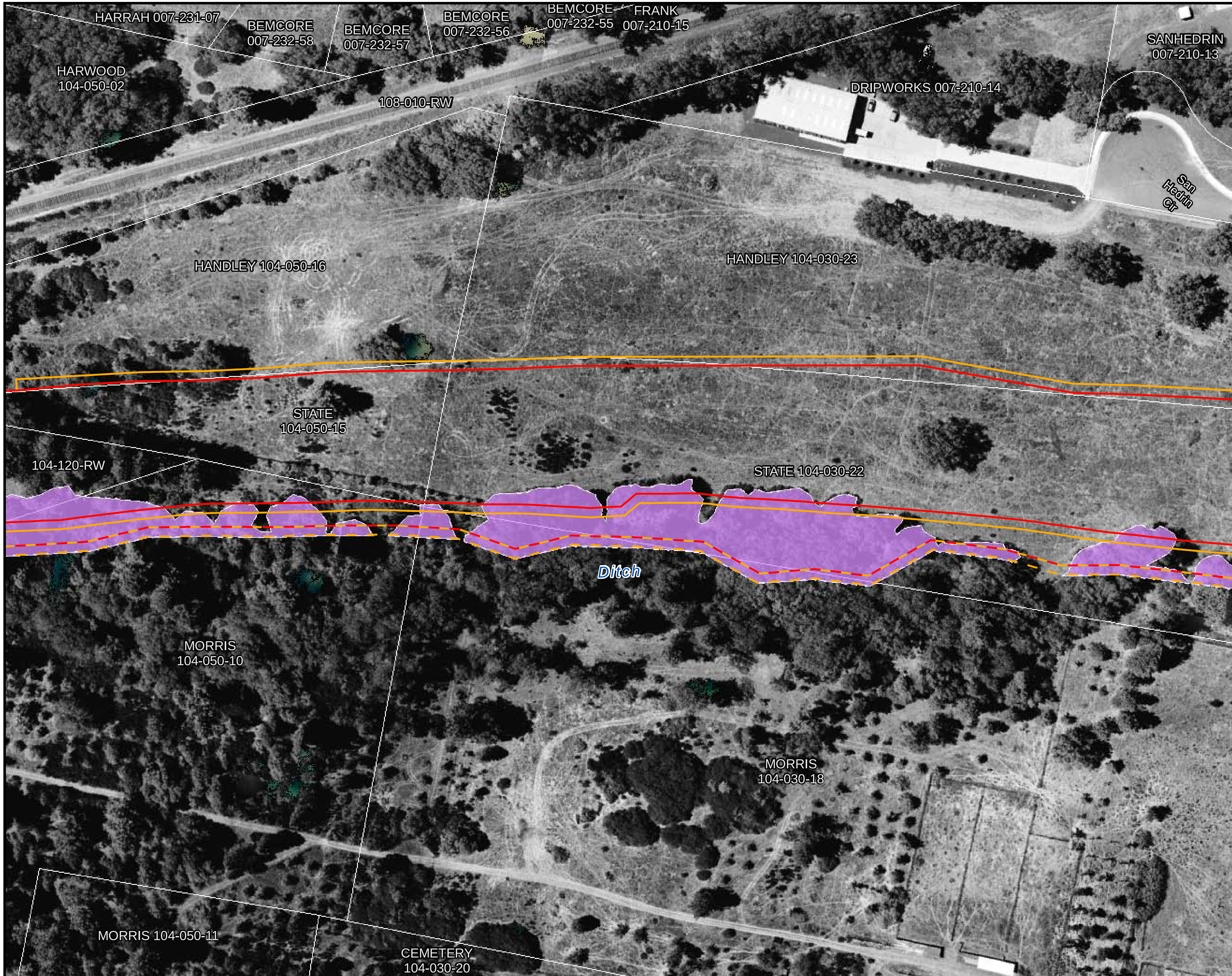
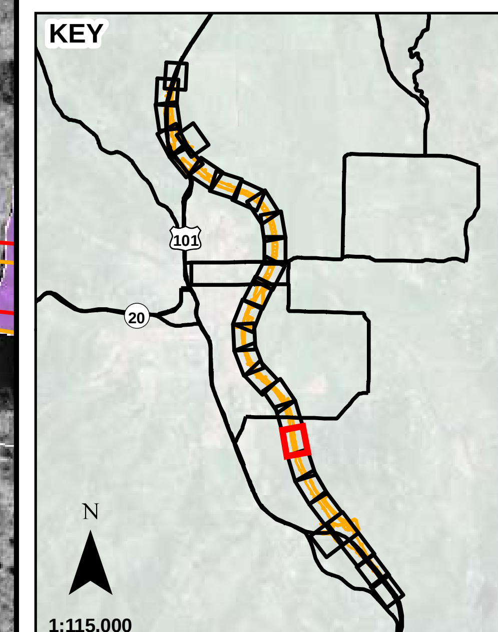


Legend

Alignment - Phase 1
- Permanent Impact Boundary
- Temporary Impact Boundary
- Support Columns

Alignment - Phase 2
- Permanent
- Temporary
- Support Columns
- Parcel
- Offsite Mitigation Parcel

Sensitive Biological Resources
- Protected Fisheries Area
- Riparian Corridor Areas



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Scale in Feet

Sheet B-17

Riparian Habitat Impacts

Willits Bypass Project
Sensitive Biological Resources
Impact Maps

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Legend

Alignment - Phase 1

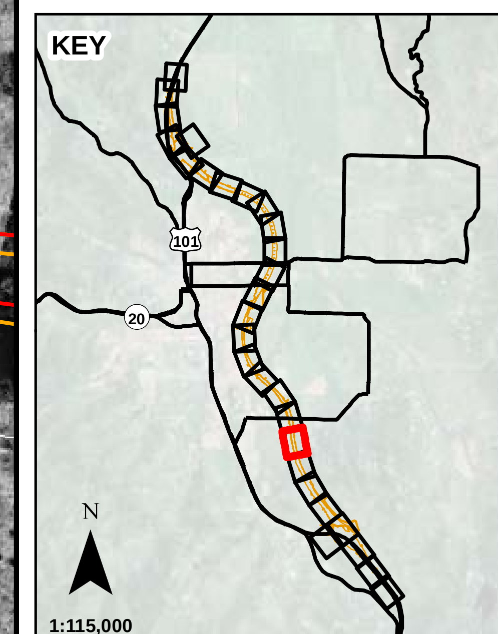
- Permanent Impact Boundary
- Temporary Impact Boundary
- Support Columns

Alignment - Phase 2

- Permanent
- Temporary
- Support Columns
- Parcel
- Offsite Mitigation Parcel

Jurisdictional Wetlands and Other Waters

- Marsh
- Riparian Wetland
- Swale
- Vernal Pool
- Wet Meadow
- Other Waters



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Scale in Feet

Sheet B-18

Jurisdictional Wetland Impacts

Willits Bypass

Sensitive Biological Resources

Impact Maps

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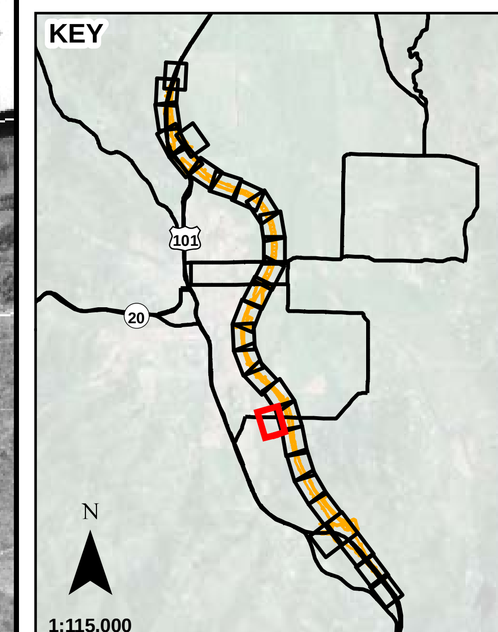
Legend

Alignment - Phase 1
- Permanent Impact Boundary
- Temporary Impact Boundary
- Support Columns

Alignment - Phase 2
- Permanent
- Temporary
- Support Columns
- Parcel
- Offsite Mitigation Parcel

Sensitive Biological Resources
- Protected Fisheries Area
- Riparian Corridor Areas



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Scale in Feet

Sheet B-19

Riparian Habitat Impacts

Willits Bypass Project
Sensitive Biological Resources Impact Maps

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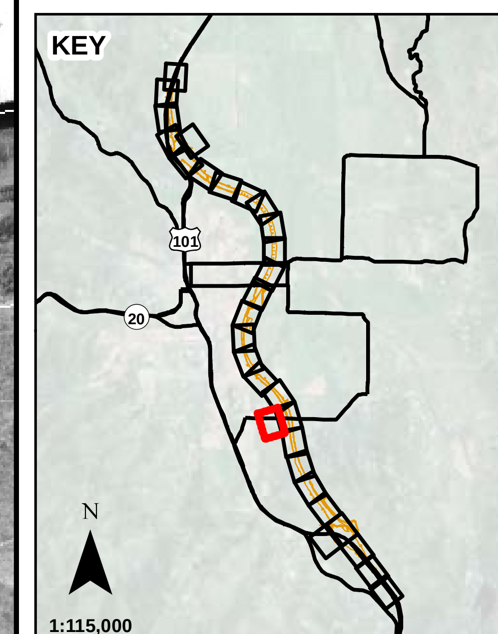

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Scale in Feet

Sheet B-20

Jurisdictional Wetland Impacts

Willits Bypass

Sensitive Biological Resources

Impact Maps

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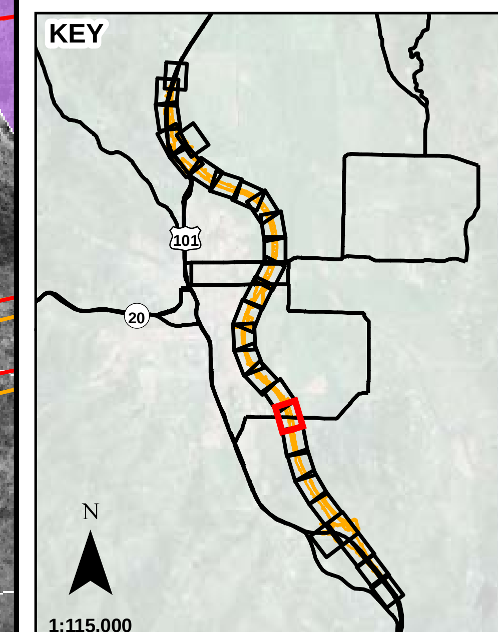
Legend

Alignment - Phase 1
- Permanent Impact Boundary
- Temporary Impact Boundary
- Support Columns

Alignment - Phase 2
- Permanent
- Temporary
- Support Columns
- Parcel
- Offsite Mitigation Parcel

Sensitive Biological Resources
- Protected Fisheries Area
- Riparian Corridor Areas



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Scale in Feet

Sheet B-21

Riparian Habitat Impacts

Willits Bypass Project
Sensitive Biological Resources
Impact Maps

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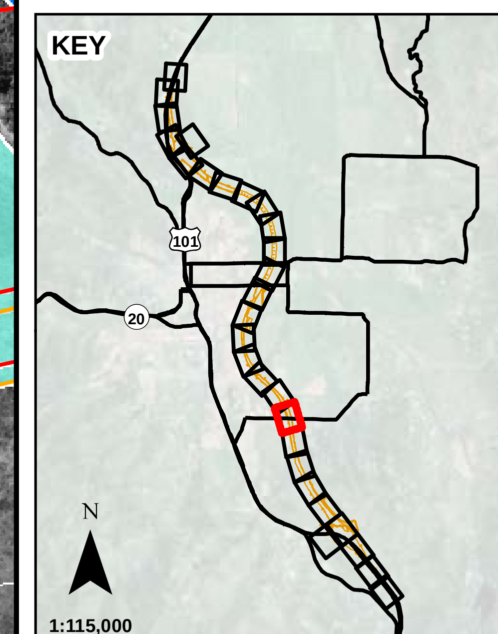

Legend

Alignment - Phase 1

- Permanent Impact Boundary
- Temporary Impact Boundary
- Support Columns

Alignment - Phase 2

- Permanent
- Temporary
- Support Columns
- Parcel
- Offsite Mitigation Parcel

Jurisdictional Wetlands and Other Waters

- Marsh
- Riparian Wetland
- Swale
- Vernal Pool
- Wet Meadow
- Other Waters

N

0 100

Scale in Feet

Sheet B-22

Jurisdictional Wetland Impacts

Willits Bypass

Sensitive Biological Resources Impact Maps

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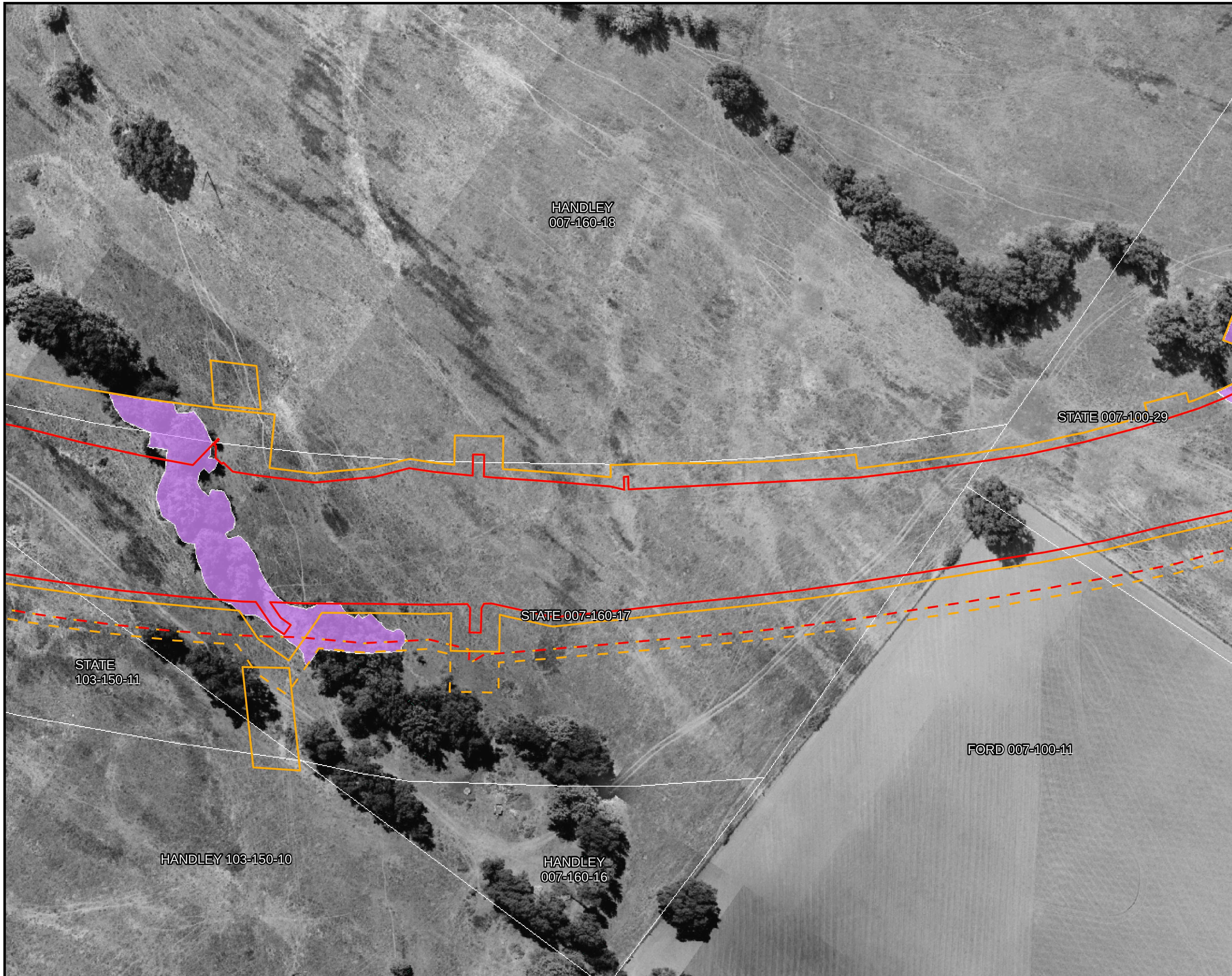


Legend

Alignment - Phase 1

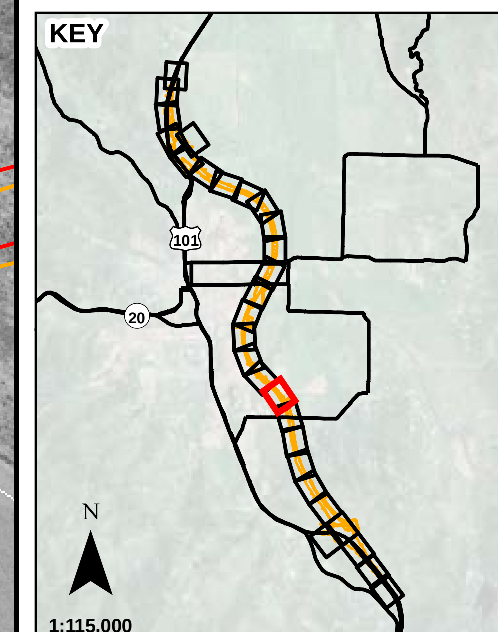
- Permanent Impact Boundary
- Temporary Impact Boundary
- Support Columns

Alignment - Phase 2

- Permanent
- Temporary
- Support Columns
- Parcel
- Offsite Mitigation Parcel

Sensitive Biological Resources

- Protected Fisheries Area
- Riparian Corridor Areas



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Scale in Feet

Sheet B-23

Riparian Habitat Impacts

Willits Bypass Project
Sensitive Biological Resources
Impact Maps

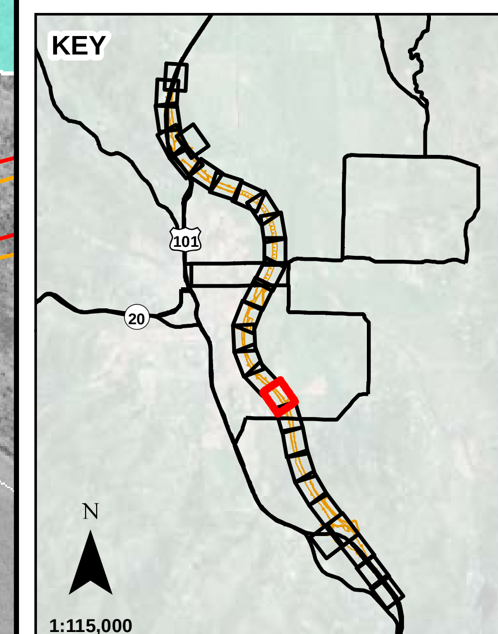
Legend

Alignment - Phase 1
- Permanent Impact Boundary
- Temporary Impact Boundary
- Support Columns

Alignment - Phase 2
- Permanent
- Temporary
- Support Columns
- Parcel
- Offsite Mitigation Parcel

Jurisdictional Wetlands and Other Waters
- Marsh
- Riparian Wetland
- Swale
- Vernal Pool
- Wet Meadow
- Other Waters

KEY



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Scale in Feet

Sheet B-24

Jurisdictional Wetland Impacts

Willits Bypass

Sensitive Biological Resources

Impact Maps

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Sheet B-25

Riparian Habitat Impacts

Willits Bypass Project
Sensitive Biological Resources
Impact Maps

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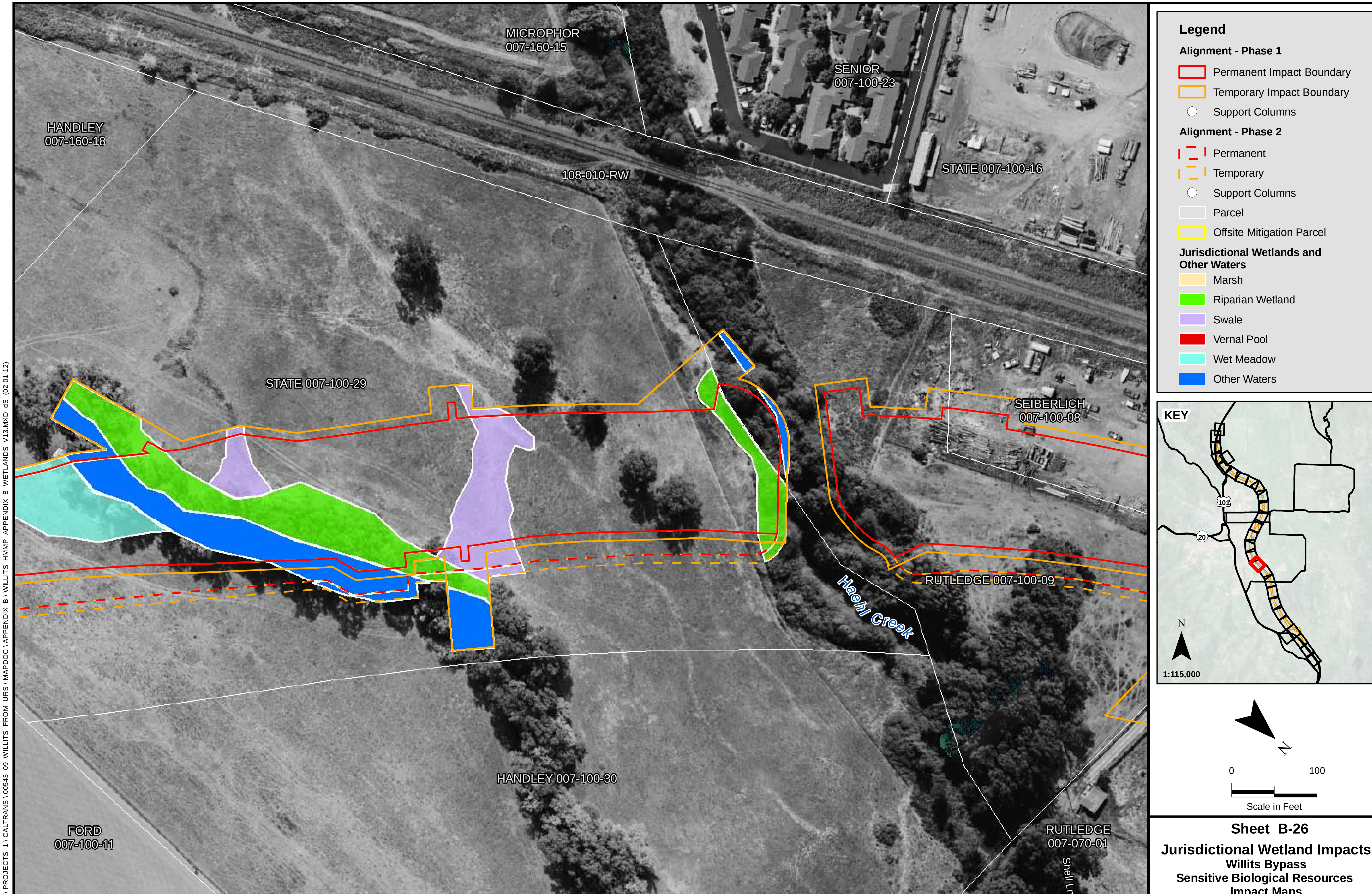


Sheet B-26

Jurisdictional Wetland Impacts

Willits Bypass

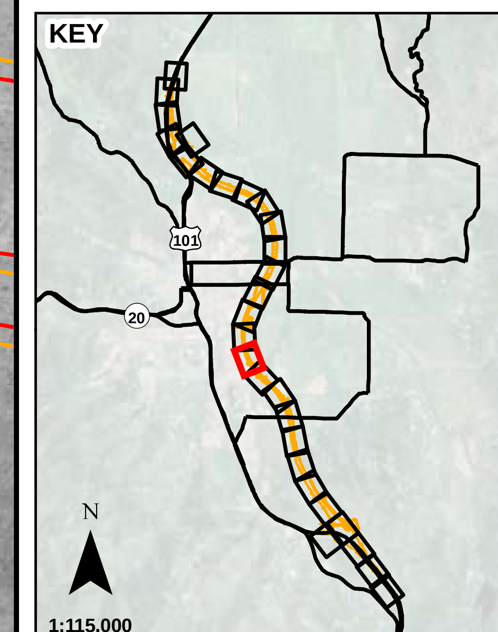
Sensitive Biological Resources Impact Maps

Legend

Alignment - Phase 1
- Permanent Impact Boundary
- Temporary Impact Boundary
- Support Columns

Alignment - Phase 2
- Permanent
- Temporary
- Support Columns
- Parcel
- Offsite Mitigation Parcel

Sensitive Biological Resources
- Protected Fisheries Area
- Riparian Corridor Areas



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Scale in Feet

Sheet B-27

Riparian Habitat Impacts

Willits Bypass Project
Sensitive Biological Resources
Impact Maps

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Legend

Alignment - Phase 1

- Permanent Impact Boundary
- Temporary Impact Boundary
- Support Columns

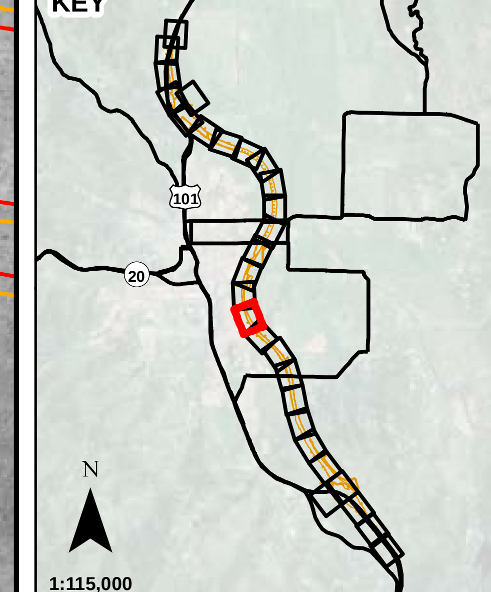
Alignment - Phase 2

- Permanent
- Temporary
- Support Columns
- Parcel
- Offsite Mitigation Parcel

Jurisdictional Wetlands and Other Waters

- Marsh
- Riparian Wetland
- Swale
- Vernal Pool
- Wet Meadow
- Other Waters

KEY



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Scale in Feet

Sheet B-28

Jurisdictional Wetland Impacts

Willits Bypass

Sensitive Biological Resources

Impact Maps

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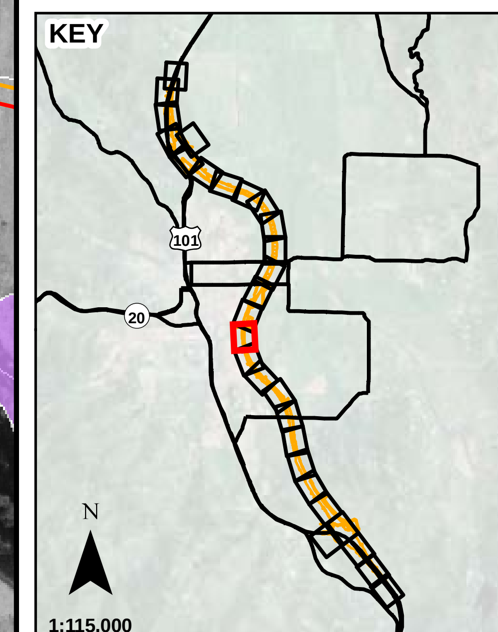
Legend

Alignment - Phase 1
- Permanent Impact Boundary
- Temporary Impact Boundary
- Support Columns

Alignment - Phase 2
- Permanent
- Temporary
- Support Columns
- Parcel
- Offsite Mitigation Parcel

Sensitive Biological Resources
- Protected Fisheries Area
- Riparian Corridor Areas



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Scale in Feet

Sheet B-29

Riparian Habitat Impacts

Willits Bypass Project Sensitive Biological Resources Impact Maps

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Legend

Alignment - Phase 1

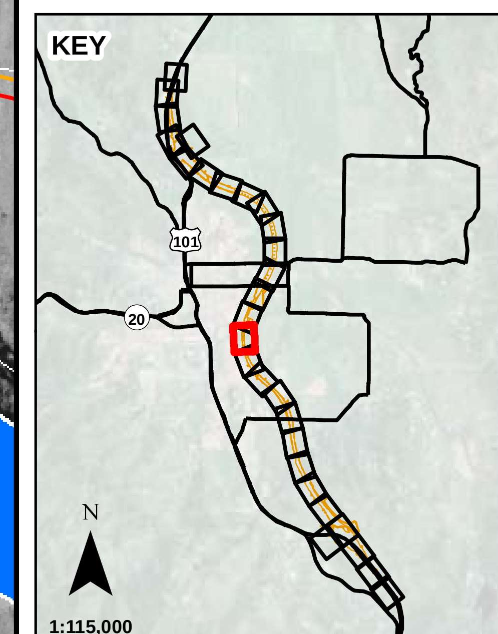
- Permanent Impact Boundary
- Temporary Impact Boundary
- Support Columns

Alignment - Phase 2

- Permanent
- Temporary
- Support Columns
- Parcel
- Offsite Mitigation Parcel

Jurisdictional Wetlands and Other Waters

- Marsh
- Riparian Wetland
- Swale
- Vernal Pool
- Wet Meadow
- Other Waters



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Scale in Feet

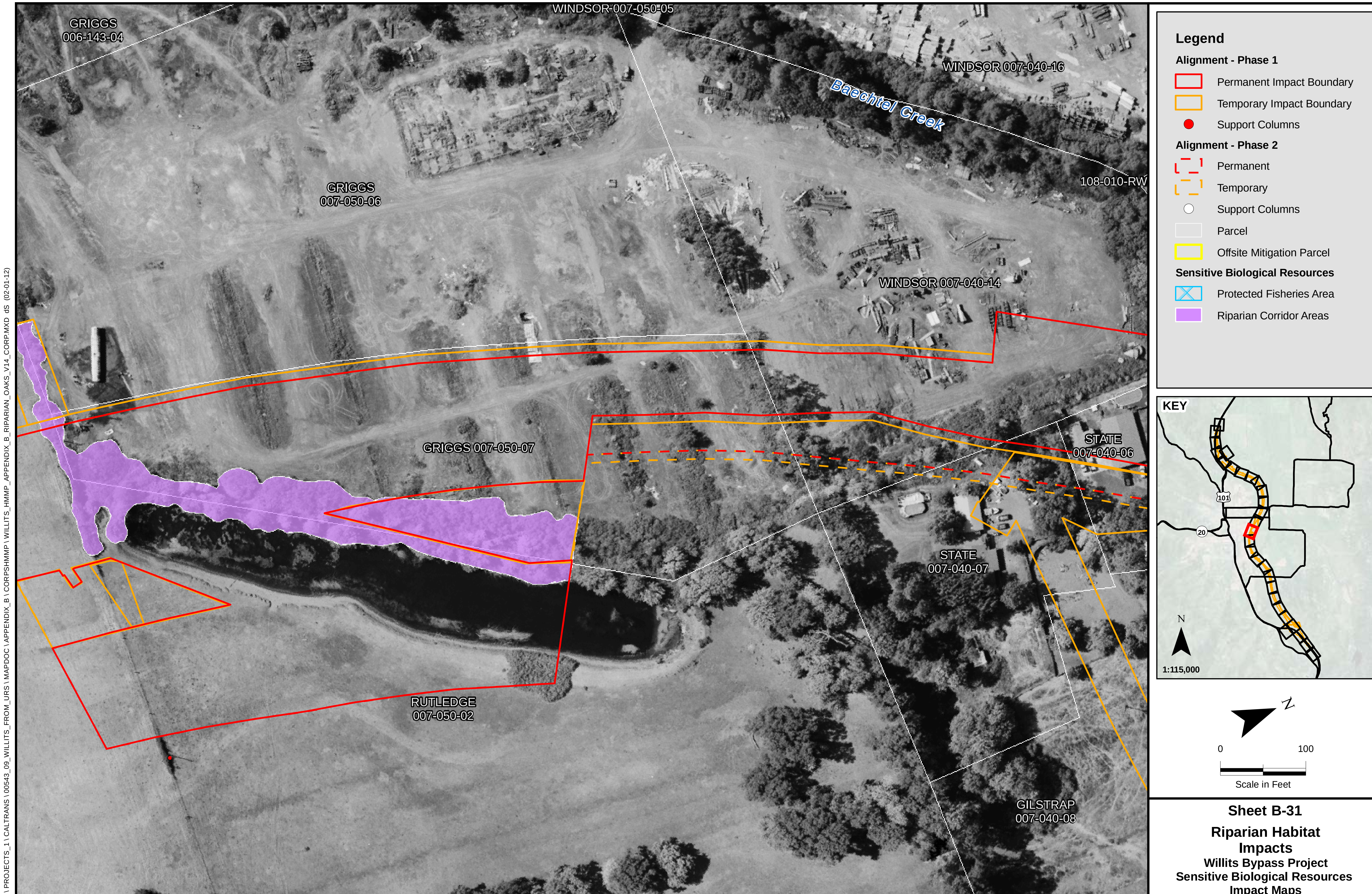
Sheet B-30

Jurisdictional Wetland Impacts

Willits Bypass

Sensitive Biological Resources

Impact Maps



Sheet B-31

Riparian Habitat Impacts

Willits Bypass Project
Sensitive Biological Resources Impact Maps

Legend

Alignment - Phase 1

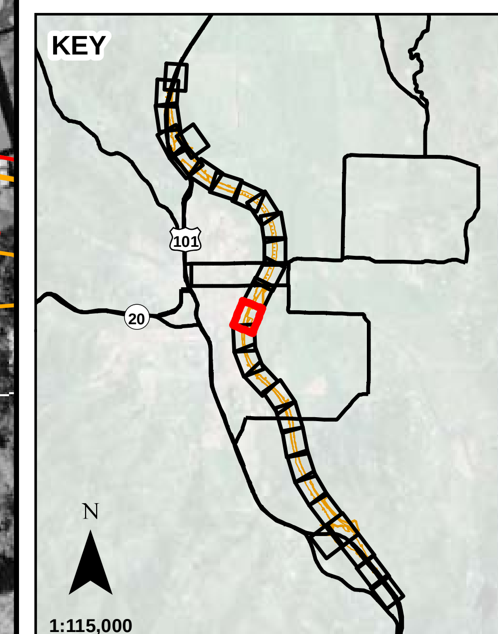
- Permanent Impact Boundary
- Temporary Impact Boundary
- Support Columns

Alignment - Phase 2

- Permanent
- Temporary
- Support Columns
- Parcel
- Offsite Mitigation Parcel

Jurisdictional Wetlands and Other Waters

- Marsh
- Riparian Wetland
- Swale
- Vernal Pool
- Wet Meadow
- Other Waters



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Scale in Feet

Sheet B-32

Jurisdictional Wetland Impacts

Willits Bypass
Sensitive Biological Resources
Impact Maps

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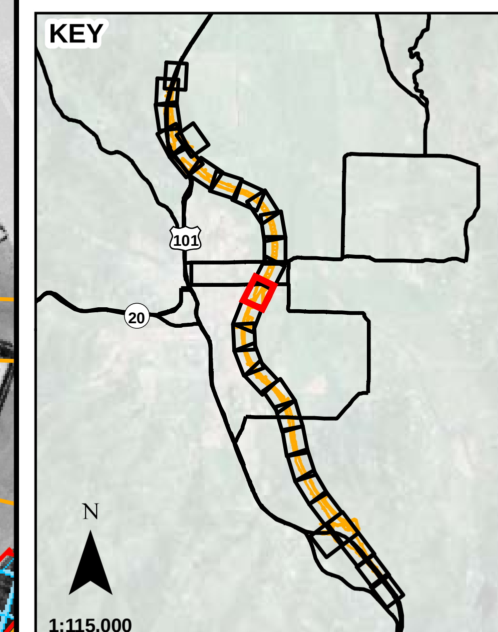
Legend

Alignment - Phase 1
- Permanent Impact Boundary
- Temporary Impact Boundary
- Support Columns

Alignment - Phase 2
- Permanent
- Temporary
- Support Columns
- Parcel
- Offsite Mitigation Parcel

Sensitive Biological Resources
- Protected Fisheries Area
- Riparian Corridor Areas

KEY



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Scale in Feet

Sheet B-33

Riparian Habitat Impacts

Willits Bypass Project
Sensitive Biological Resources
Impact Maps

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Sheet B-34

Jurisdictional Wetland Impacts

Willits Bypass

Sensitive Biological Resources Impact Maps

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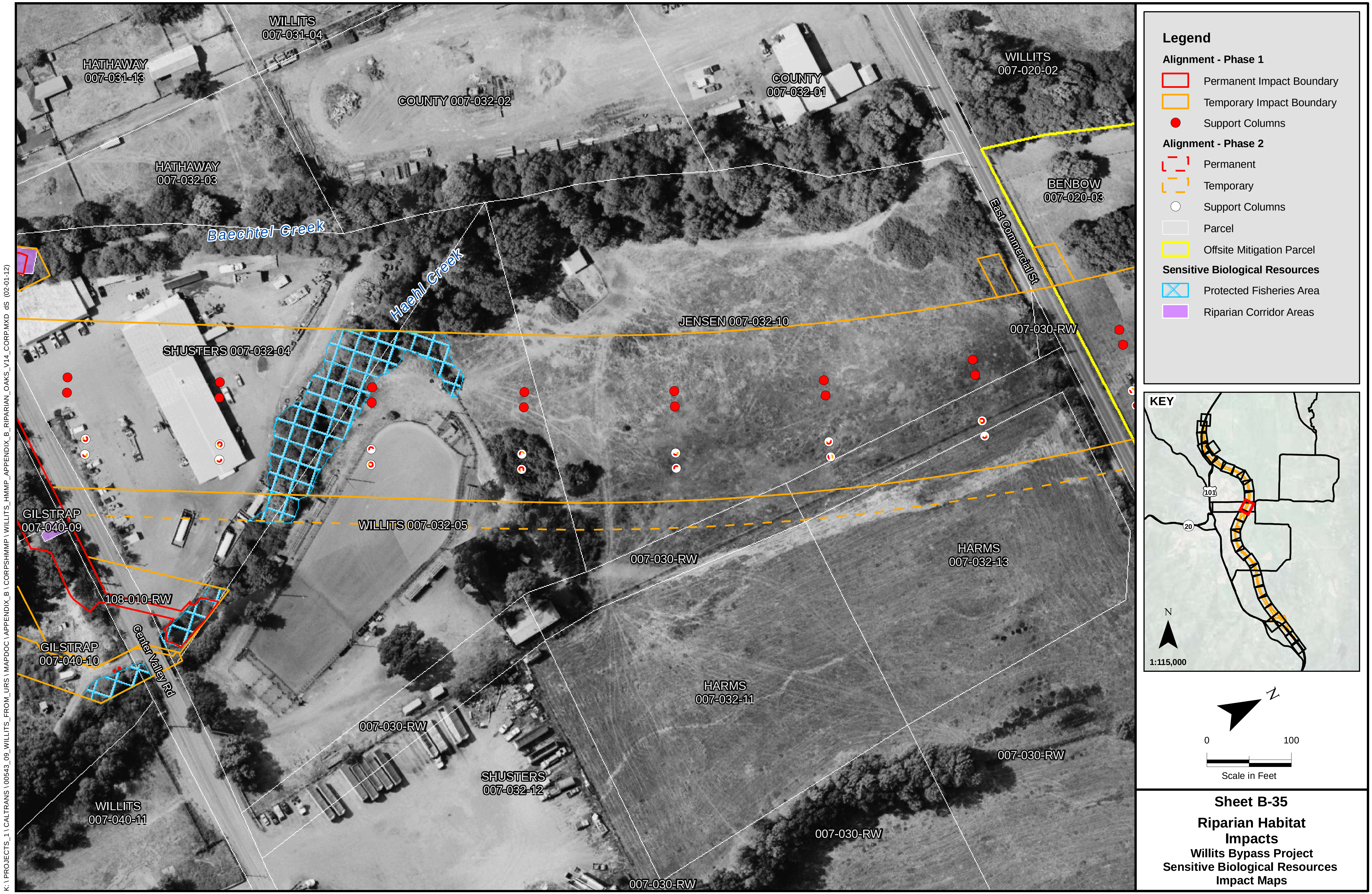
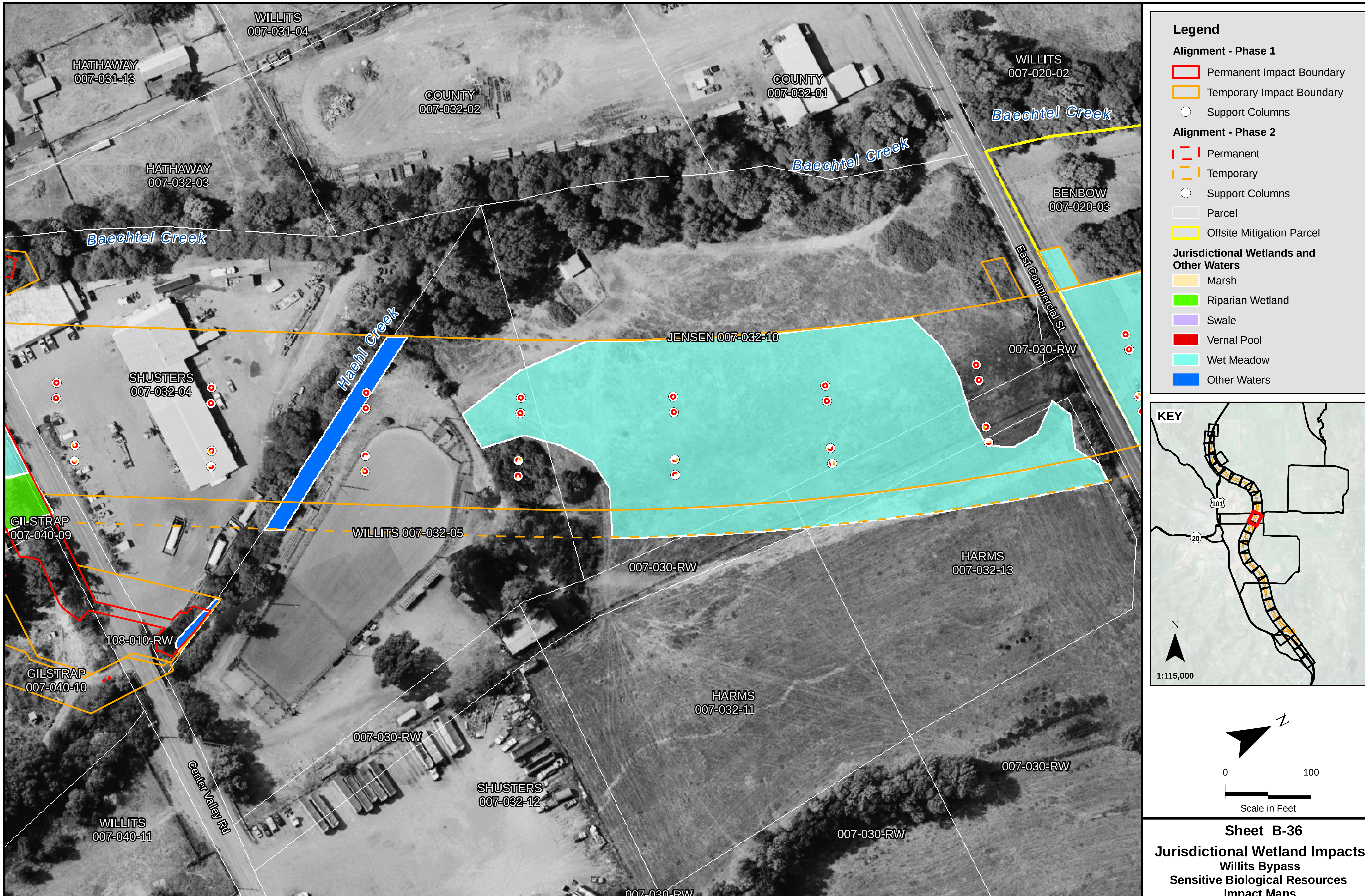


Sheet B-35

Riparian Habitat Impacts

Willits Bypass Project Sensitive Biological Resources Impact Maps



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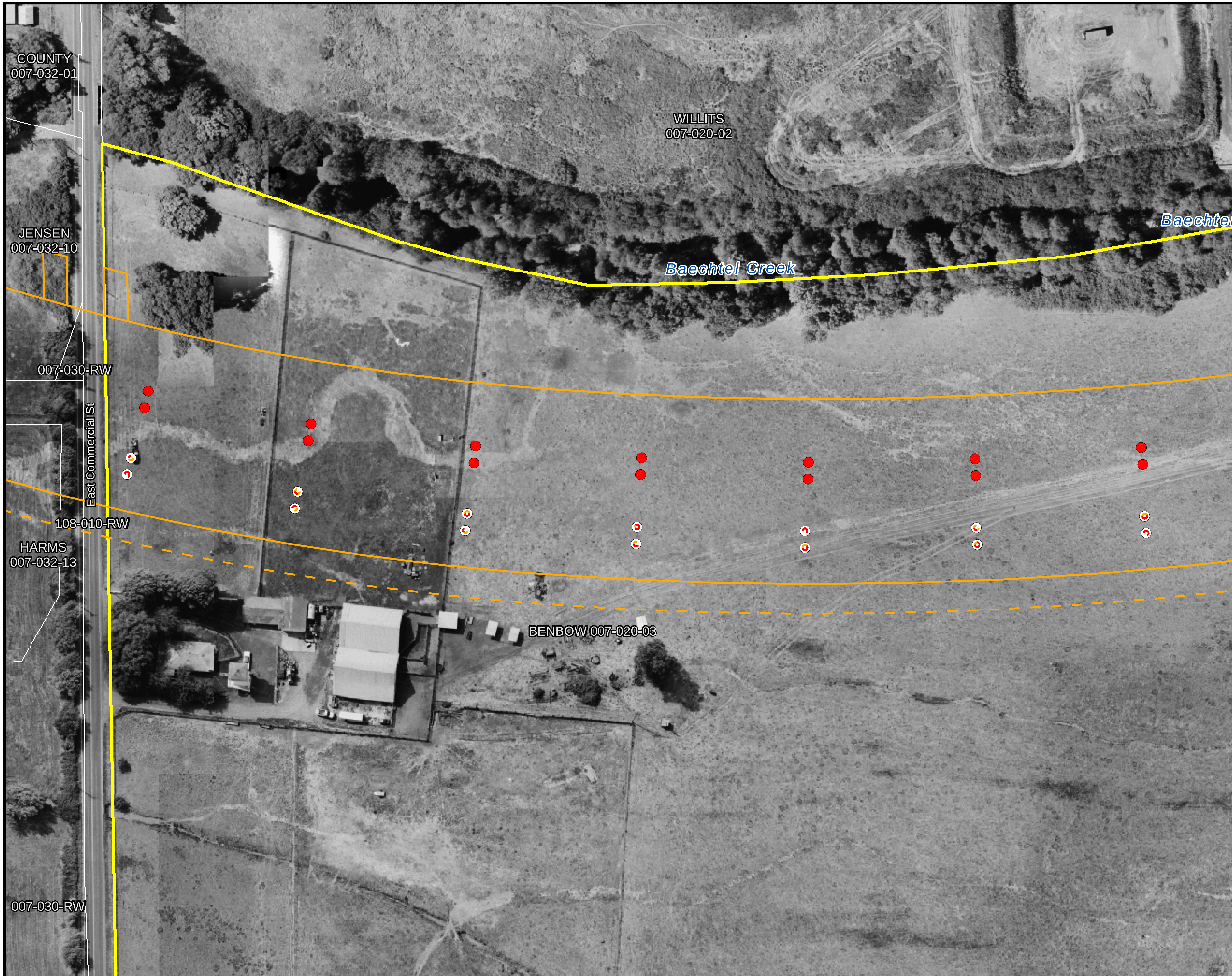
Sheet B-36

Jurisdictional Wetland Impacts

Willits Bypass

Sensitive Biological Resources

Impact Maps



Legend

Alignment - Phase 1

Permanent Impact Boundary

Temporary Impact Boundary

Support Columns

Alignment - Phase 2

Permanent

Temporary

Support Columns

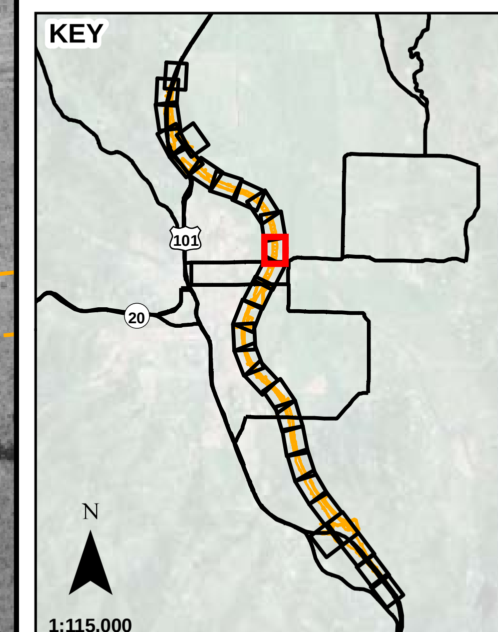
Parcel

Offsite Mitigation Parcel

Sensitive Biological Resources

Protected Fisheries Area

Riparian Corridor Areas



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Scale in Feet

Sheet B-37

Riparian Habitat Impacts

Willits Bypass Project

Sensitive Biological Resources Impact Maps

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Legend

Alignment - Phase 1

- Permanent Impact Boundary
- Temporary Impact Boundary
- Support Columns

Alignment - Phase 2

- Permanent
- Temporary
- Support Columns
- Parcel
- Offsite Mitigation Parcel

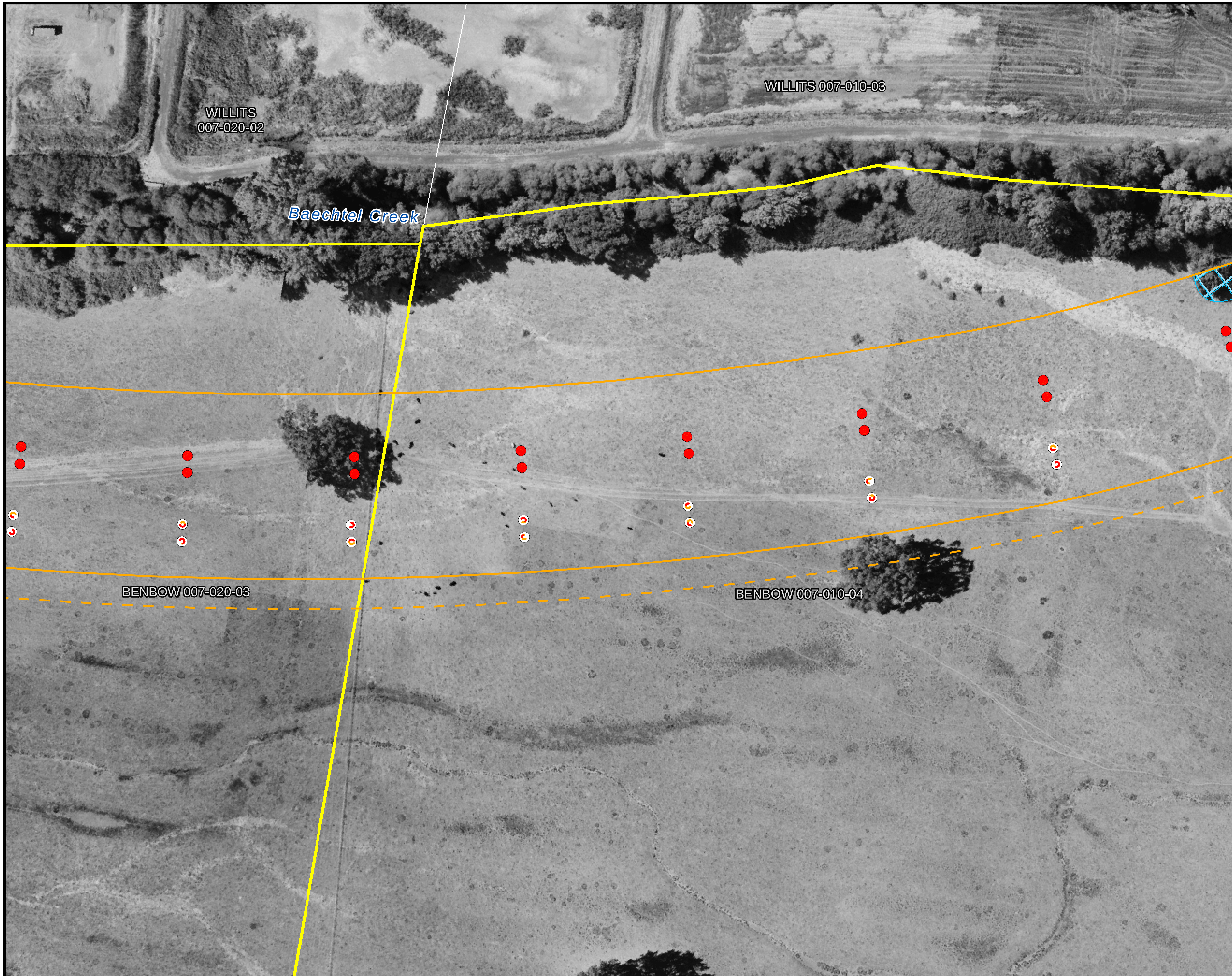
Jurisdictional Wetlands and Other Waters

- Marsh
- Riparian Wetland
- Swale
- Vernal Pool
- Wet Meadow
- Other Waters

Sheet B-38

Jurisdictional Wetland Impacts

Willits Bypass
Sensitive Biological Resources
Impact Maps



Legend

Alignment - Phase 1

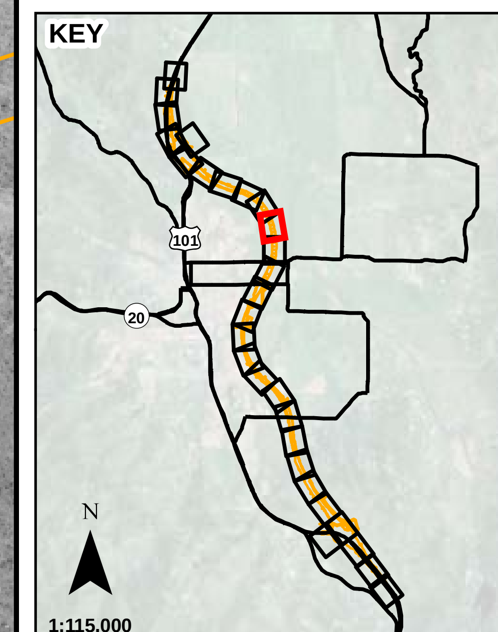
- Permanent Impact Boundary
- Temporary Impact Boundary
- Support Columns

Alignment - Phase 2

- Permanent
- Temporary
- Support Columns
- Parcel
- Offsite Mitigation Parcel

Sensitive Biological Resources

- Protected Fisheries Area
- Riparian Corridor Areas



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Scale in Feet

Sheet B-39

Riparian Habitat Impacts

Willits Bypass Project
Sensitive Biological Resources
Impact Maps

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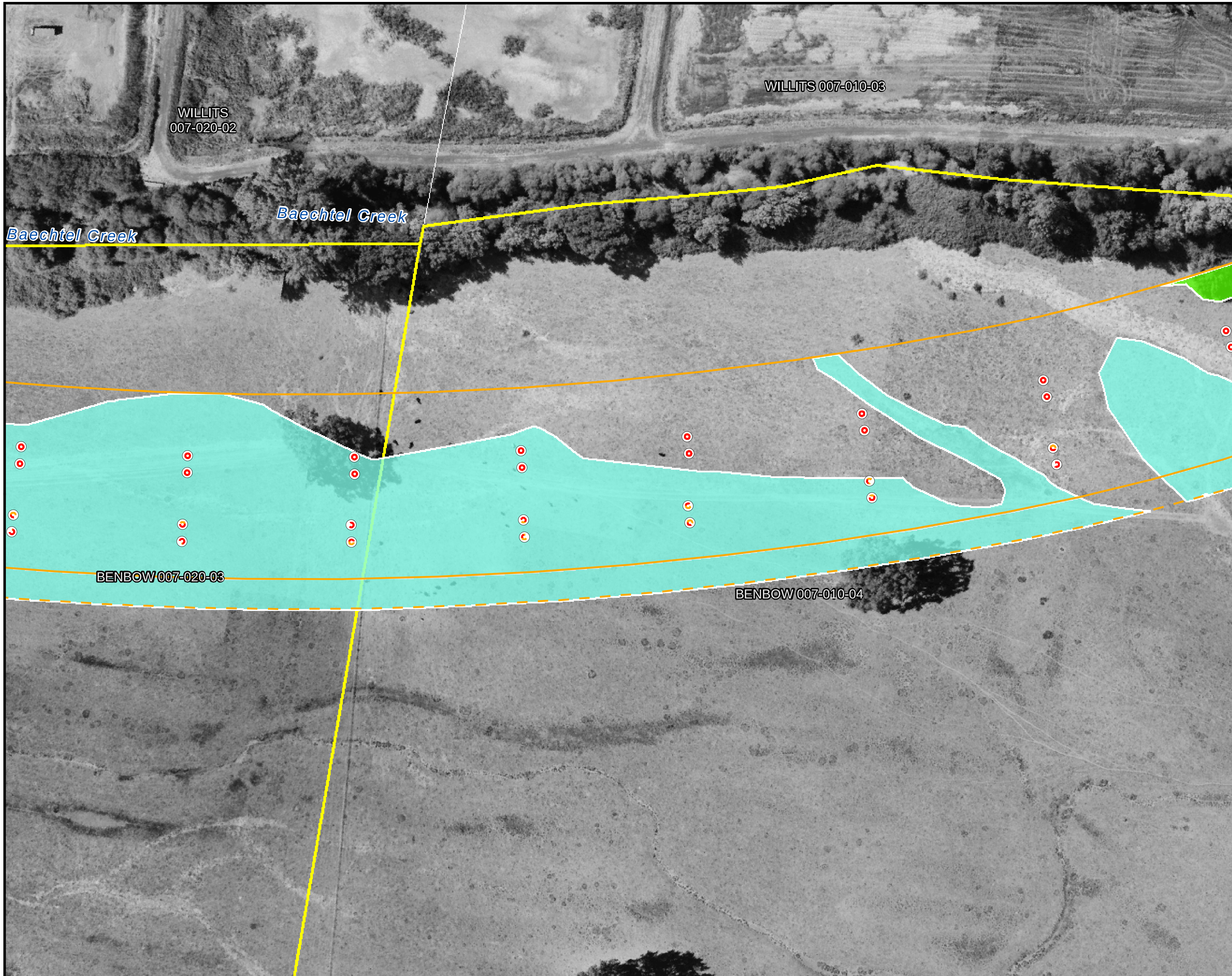


Legend

Alignment - Phase 1

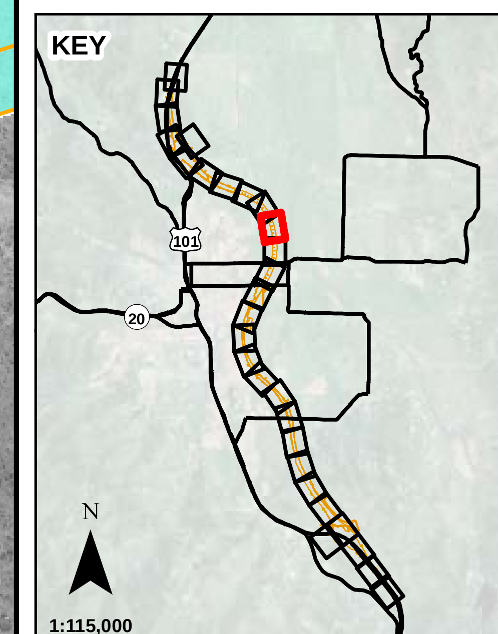
- Permanent Impact Boundary
- Temporary Impact Boundary
- Support Columns

Alignment - Phase 2

- Permanent
- Temporary
- Support Columns
- Parcel
- Offsite Mitigation Parcel

Jurisdictional Wetlands and Other Waters

- Marsh
- Riparian Wetland
- Swale
- Vernal Pool
- Wet Meadow
- Other Waters



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Scale in Feet

Sheet B-40

Jurisdictional Wetland Impacts

Willits Bypass

Sensitive Biological Resources

Impact Maps

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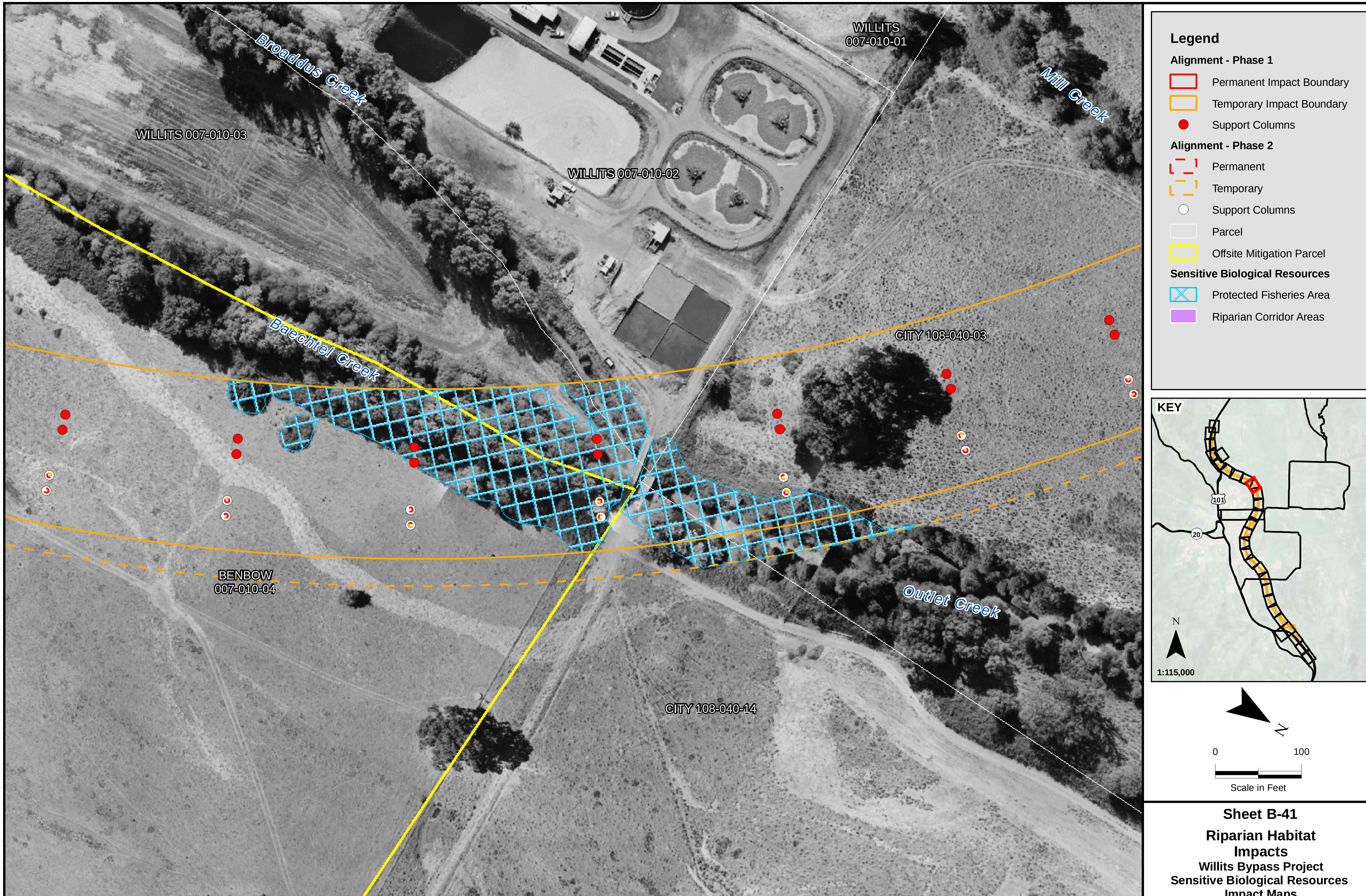

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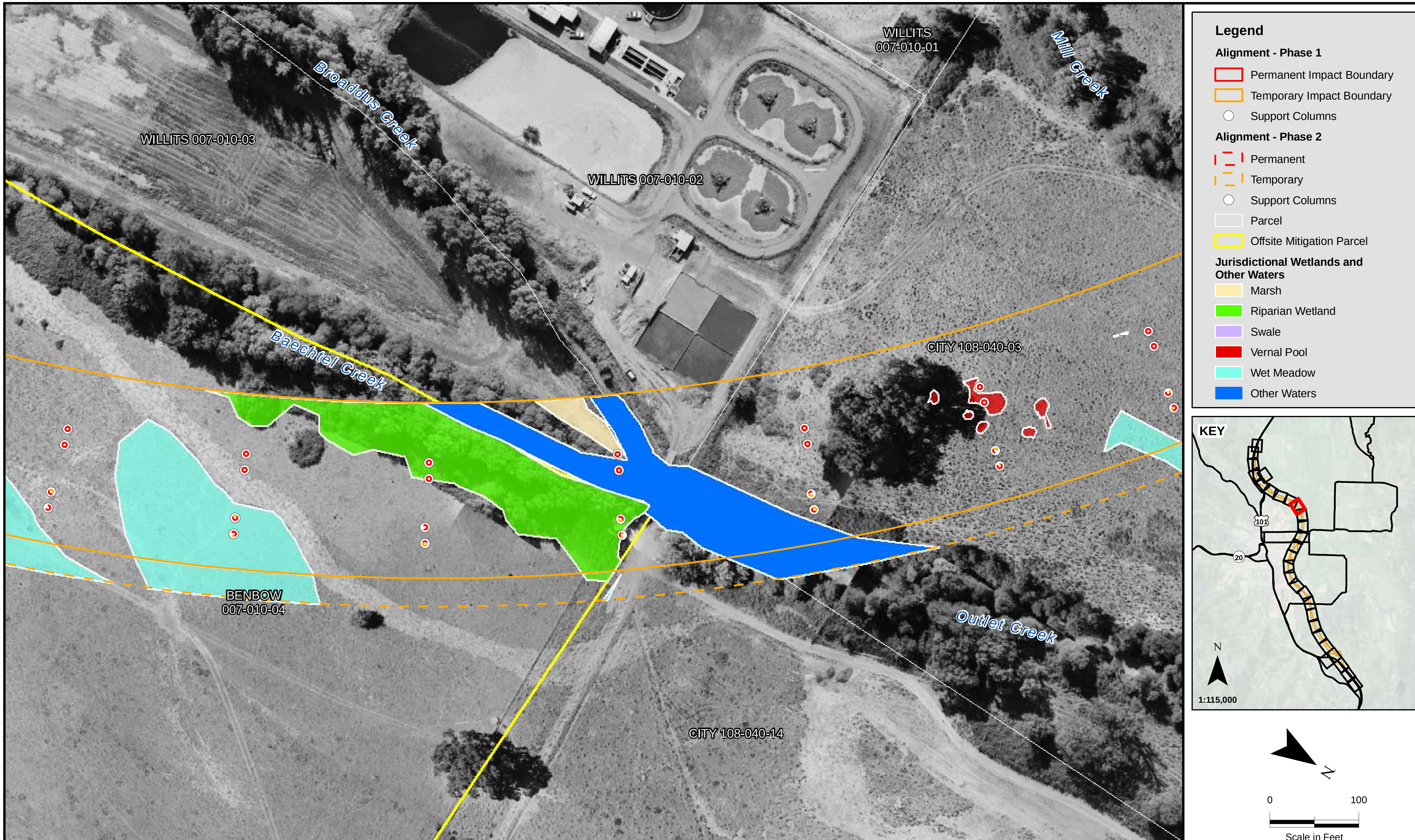
Sheet B-41

Riparian Habitat Impacts

Willits Bypass Project
Sensitive Biological Resources
Impact Maps



Sheet B-42

Jurisdictional Wetland Impacts

Willits Bypass
Sensitive Biological Resources
Impact Maps

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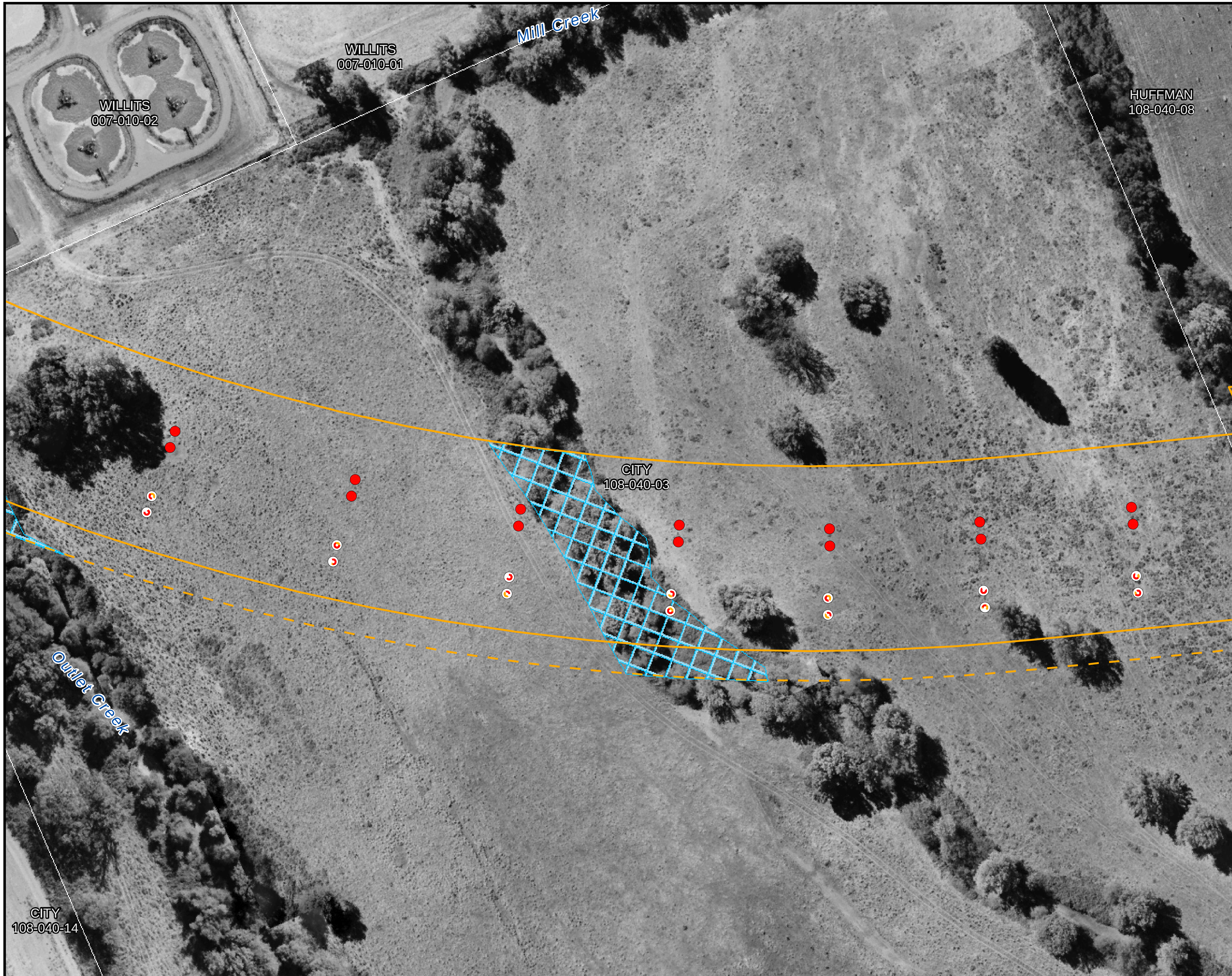
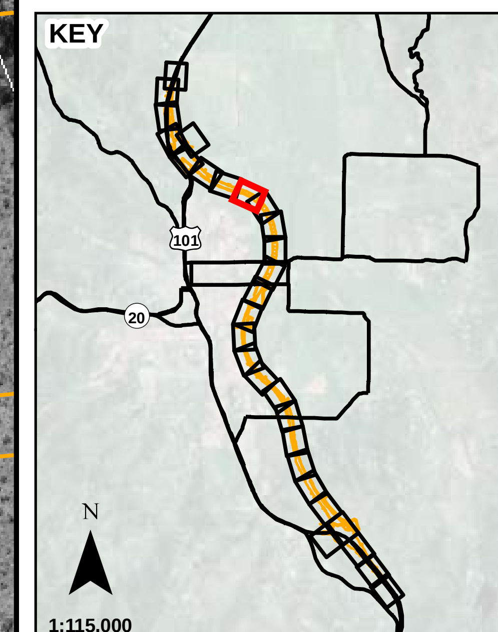


Legend

Alignment - Phase 1
- Permanent Impact Boundary
- Temporary Impact Boundary
- Support Columns

Alignment - Phase 2
- Permanent
- Temporary
- Support Columns
- Parcel
- Offsite Mitigation Parcel

Sensitive Biological Resources
- Protected Fisheries Area
- Riparian Corridor Areas



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Scale in Feet

Sheet B-43

Riparian Habitat Impacts

Willits Bypass Project
Sensitive Biological Resources
Impact Maps

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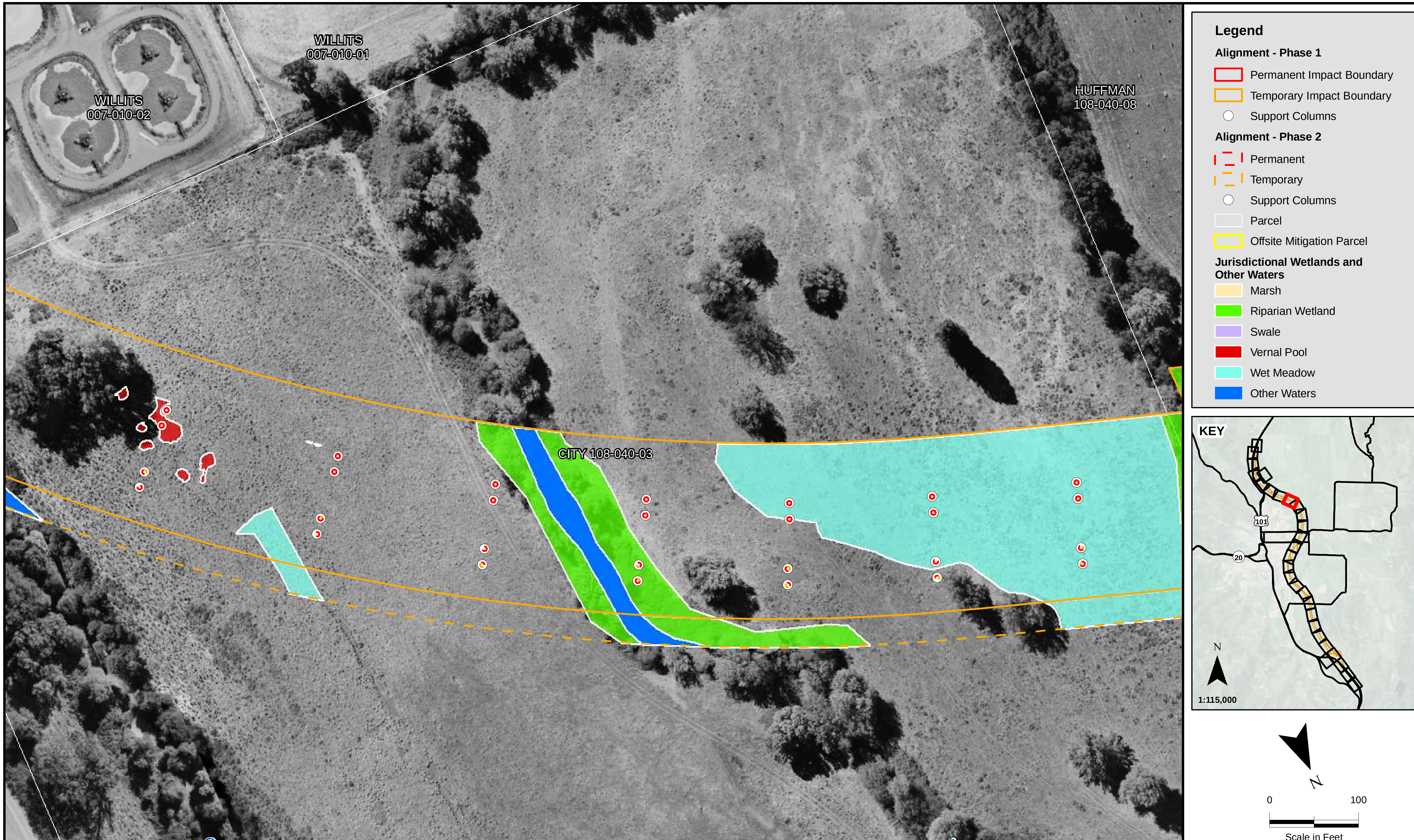

Sheet B-44

Jurisdictional Wetland Impacts

Willits Bypass

Sensitive Biological Resources

Impact Maps

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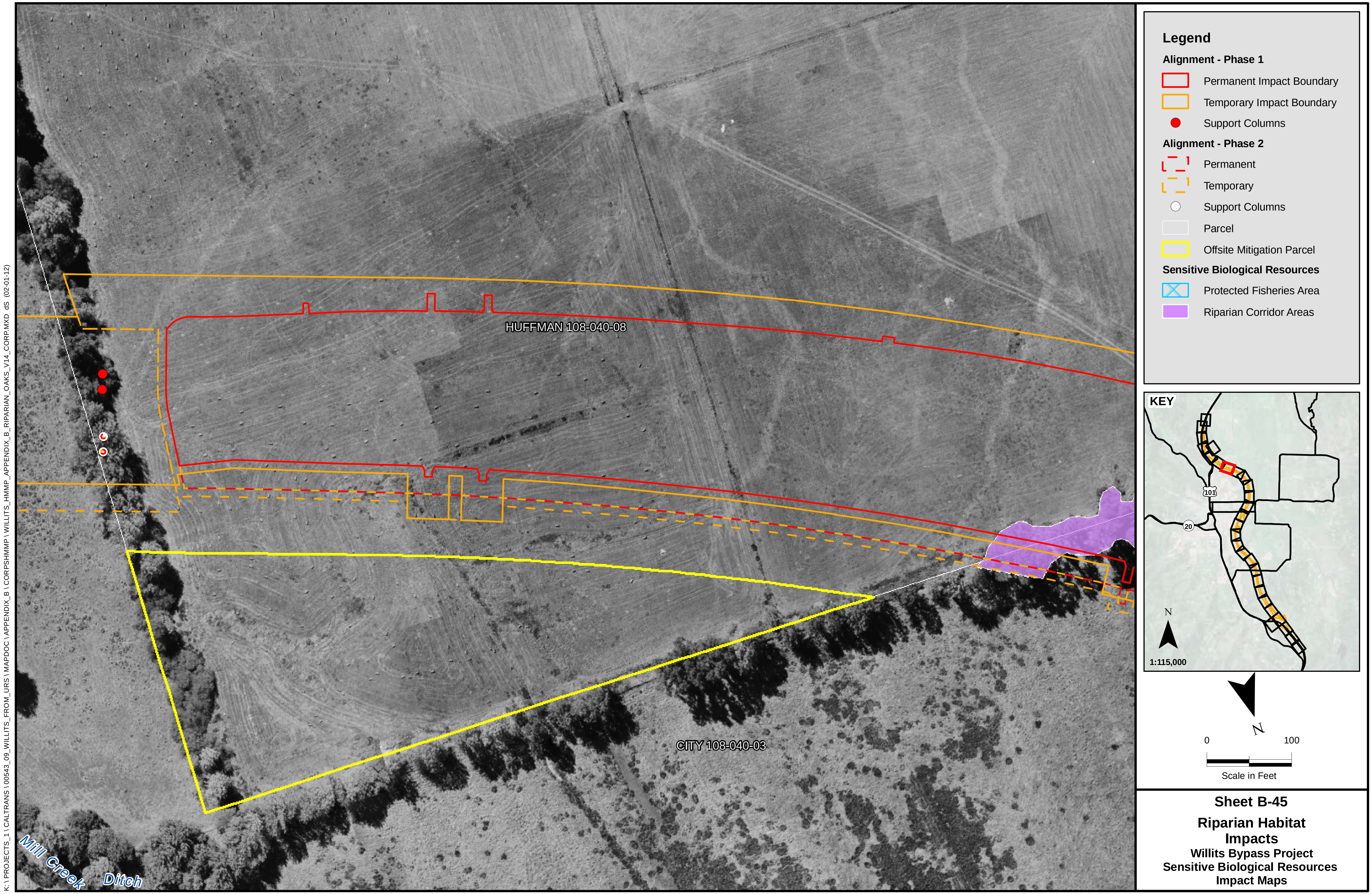


Sheet B-45

Riparian Habitat Impacts

Willits Bypass Project
Sensitive Biological Resources Impact Maps

Legend

Alignment - Phase 1

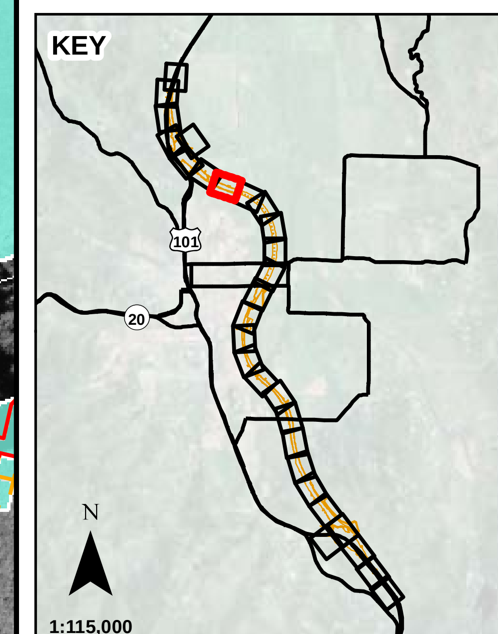
- Permanent Impact Boundary
- Temporary Impact Boundary
- Support Columns

Alignment - Phase 2

- Permanent
- Temporary
- Support Columns
- Parcel
- Offsite Mitigation Parcel

Jurisdictional Wetlands and Other Waters

- Marsh
- Riparian Wetland
- Swale
- Vernal Pool
- Wet Meadow
- Other Waters



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Scale in Feet

Sheet B-46

Jurisdictional Wetland Impacts

Willits Bypass

Sensitive Biological Resources

Impact Maps

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Sheet B-47

Riparian Habitat Impacts

Willits Bypass Project
Sensitive Biological Resources Impact Maps

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Sheet B-48
Jurisdictional Wetland Impacts
Willits Bypass
Sensitive Biological Resources
Impact Maps

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Legend

Alignment - Phase 1

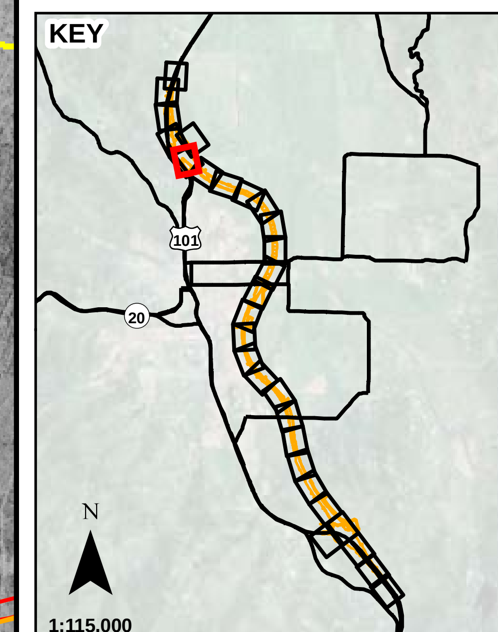
- Permanent Impact Boundary
- Temporary Impact Boundary
- Support Columns

Alignment - Phase 2

- Permanent
- Temporary
- Support Columns
- Parcel
- Offsite Mitigation Parcel

Sensitive Biological Resources

- Protected Fisheries Area
- Riparian Corridor Areas



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Scale in Feet

Sheet B-49

Riparian Habitat Impacts

Willits Bypass Project
Sensitive Biological Resources Impact Maps

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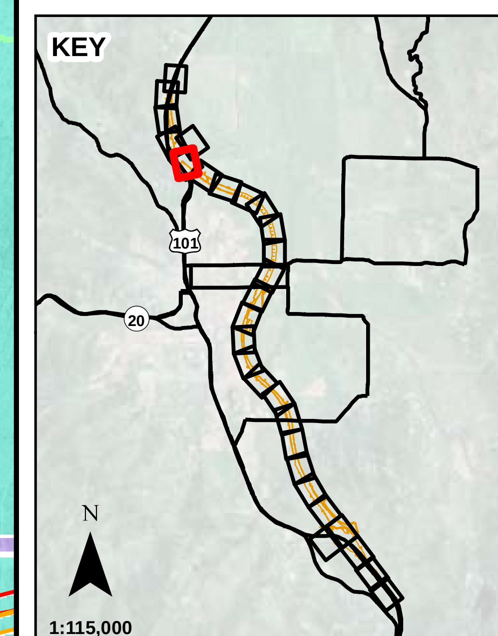
Legend

Alignment - Phase 1
- Permanent Impact Boundary
- Temporary Impact Boundary
- Support Columns

Alignment - Phase 2
- Permanent
- Temporary
- Support Columns
- Parcel
- Offsite Mitigation Parcel

Jurisdictional Wetlands and Other Waters
- Marsh
- Riparian Wetland
- Swale
- Vernal Pool
- Wet Meadow
- Other Waters



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Scale in Feet

Sheet B-50

Jurisdictional Wetland Impacts

Willits Bypass
Sensitive Biological Resources
Impact Maps

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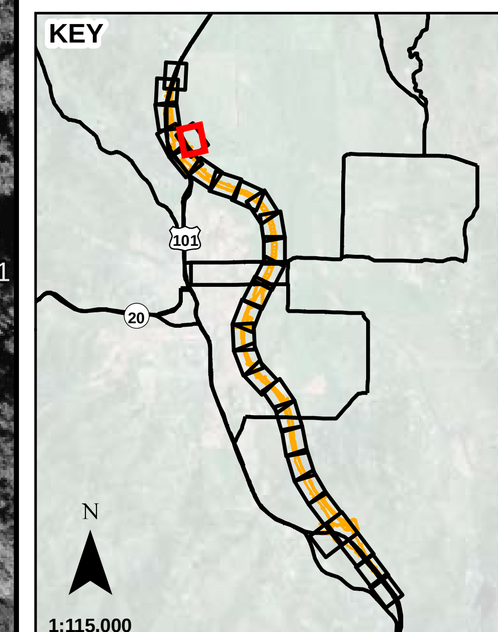
Legend

Alignment - Phase 1
- Permanent Impact Boundary
- Temporary Impact Boundary
- Support Columns

Alignment - Phase 2
- Permanent
- Temporary
- Support Columns
- Parcel
- Offsite Mitigation Parcel

Sensitive Biological Resources
- Protected Fisheries Area
- Riparian Corridor Areas



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Scale in Feet

Sheet B-51

Riparian Habitat Impacts

Willits Bypass Project
Sensitive Biological Resources
Impact Maps

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Legend

Alignment - Phase 1

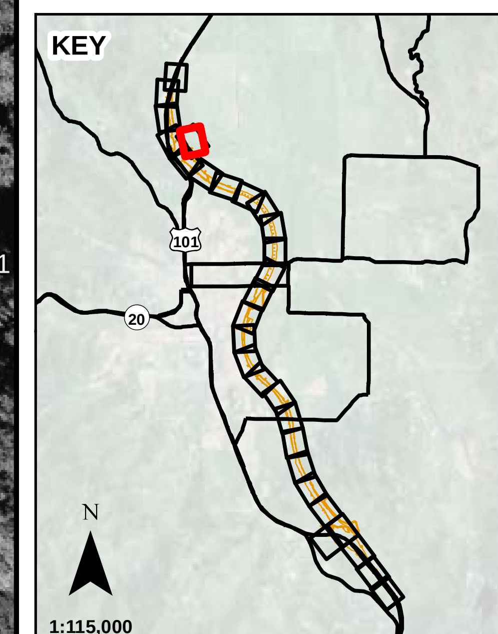
- Permanent Impact Boundary
- Temporary Impact Boundary
- Support Columns

Alignment - Phase 2

- Permanent
- Temporary
- Support Columns
- Parcel
- Offsite Mitigation Parcel

Jurisdictional Wetlands and Other Waters

- Marsh
- Riparian Wetland
- Swale
- Vernal Pool
- Wet Meadow
- Other Waters



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Scale in Feet

Sheet B-52

Jurisdictional Wetland Impacts

Willits Bypass

Sensitive Biological Resources

Impact Maps

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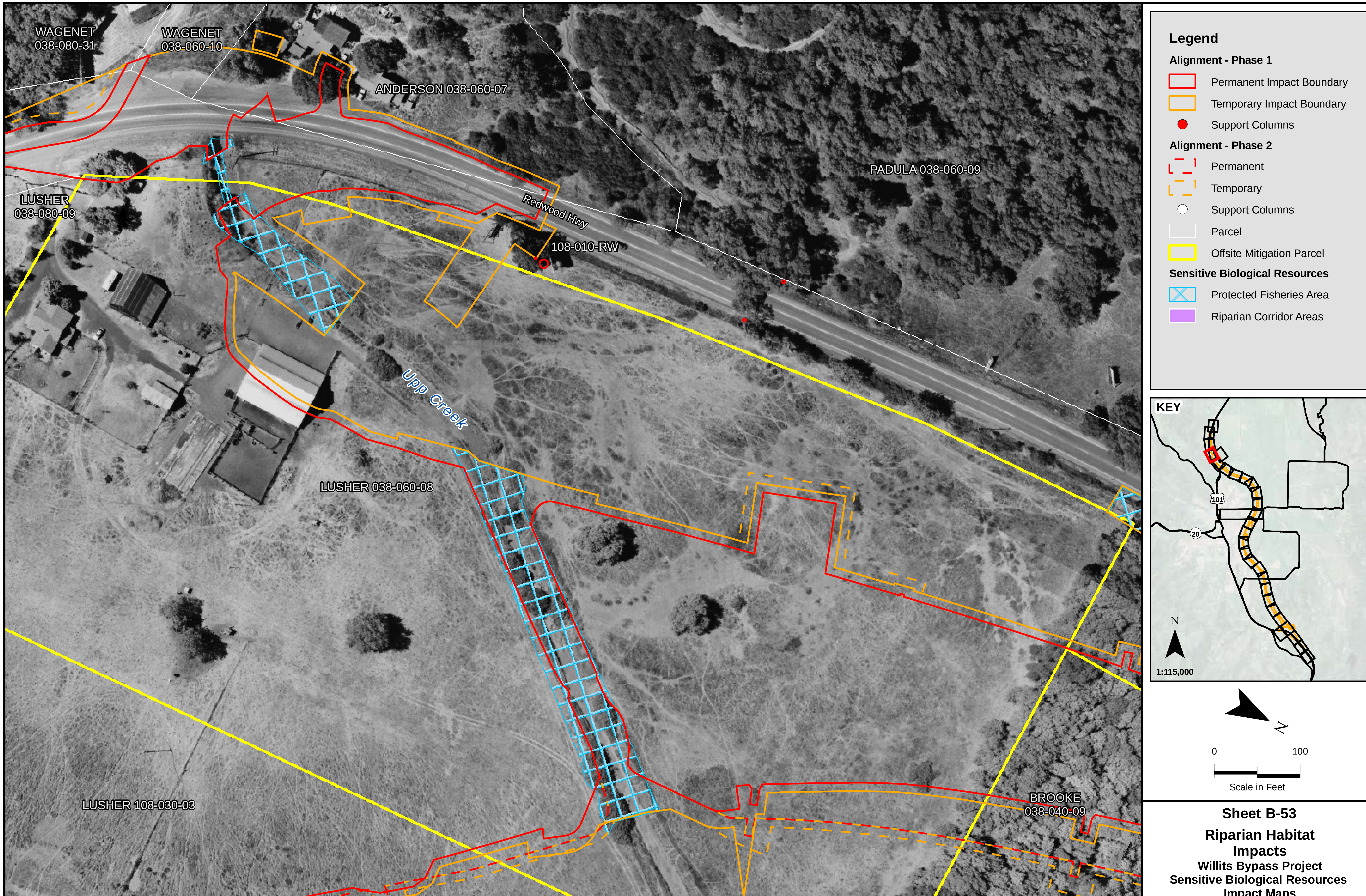

Sheet B-53

Riparian Habitat Impacts

Willits Bypass Project
Sensitive Biological Resources Impact Maps

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Sheet B-54

Jurisdictional Wetland Impacts

Willits Bypass

Sensitive Biological Resources

Impact Maps

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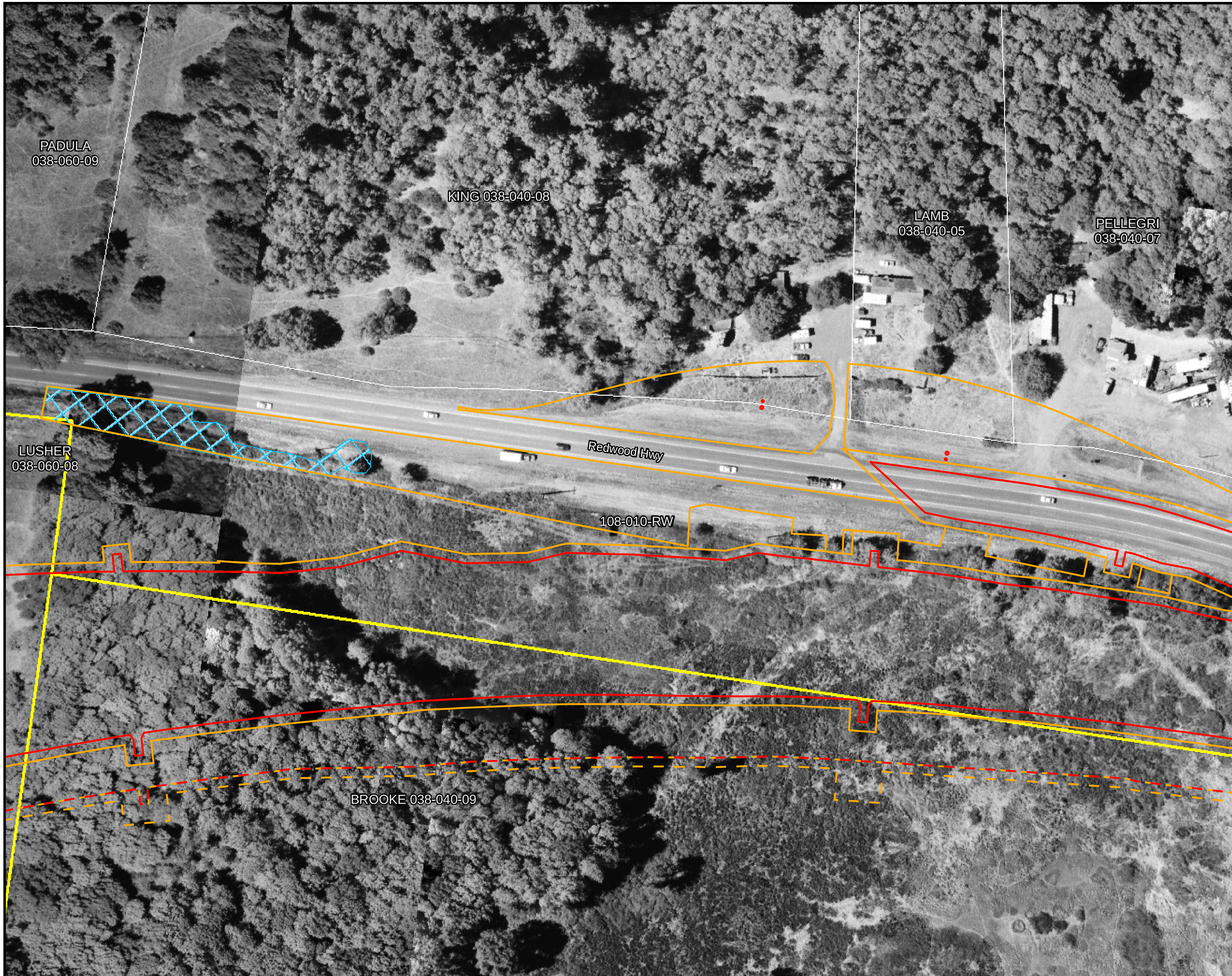

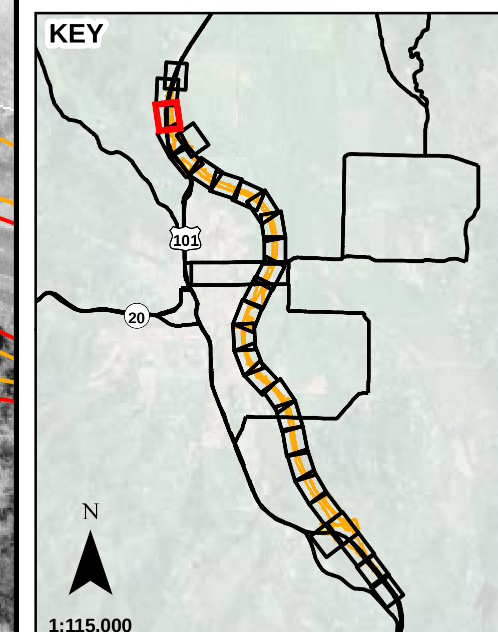

Legend

Alignment - Phase 1
- Permanent Impact Boundary
- Temporary Impact Boundary
- Support Columns

Alignment - Phase 2
- Permanent
- Temporary
- Support Columns
- Parcel
- Offsite Mitigation Parcel

Sensitive Biological Resources
- Protected Fisheries Area
- Riparian Corridor Areas

N

0 100

Scale in Feet

Sheet B-55

Riparian Habitat Impacts

Willits Bypass Project
Sensitive Biological Resources
Impact Maps

K:\PROJECTS_1\CALTRANS\00543_09_WILLITS_FROM_URS\MAPDOC\APPENDIX_B\CORPSHMMP\WILLITS_HMMP_APPENDIX_B_RIPARIAN_OAKS_V14_CORP.MXD dS (02-01-12)

Sheet B-56

Jurisdictional Wetland Impacts

Willits Bypass

Sensitive Biological Resources

Impact Maps

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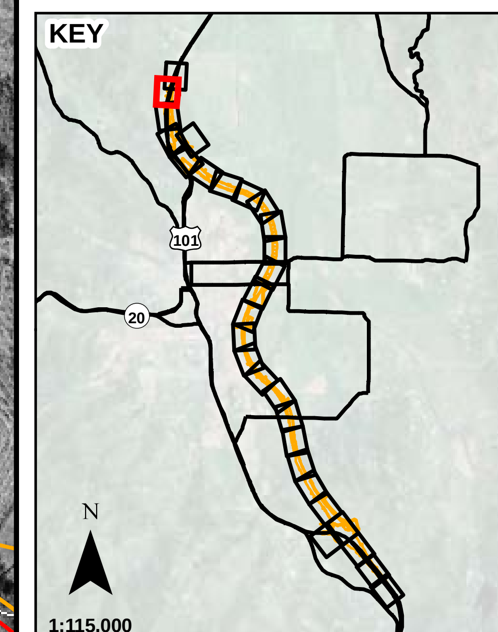
Legend

Alignment - Phase 1
- Permanent Impact Boundary
- Temporary Impact Boundary
- Support Columns

Alignment - Phase 2
- Permanent
- Temporary
- Support Columns
- Parcel
- Offsite Mitigation Parcel

Sensitive Biological Resources
- Protected Fisheries Area
- Riparian Corridor Areas



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Scale in Feet

Sheet B-57

Riparian Habitat Impacts

Willits Bypass Project
Sensitive Biological Resources
Impact Maps

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Legend

Alignment - Phase 1

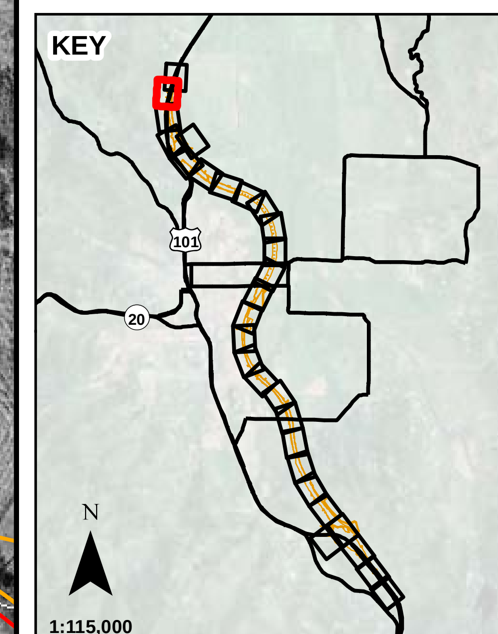
- Permanent Impact Boundary
- Temporary Impact Boundary
- Support Columns

Alignment - Phase 2

- Permanent
- Temporary
- Support Columns
- Parcel
- Offsite Mitigation Parcel

Jurisdictional Wetlands and Other Waters

- Marsh
- Riparian Wetland
- Swale
- Vernal Pool
- Wet Meadow
- Other Waters



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Scale in Feet

Sheet B-58

Jurisdictional Wetland Impacts

Willits Bypass

Sensitive Biological Resources

Impact Maps

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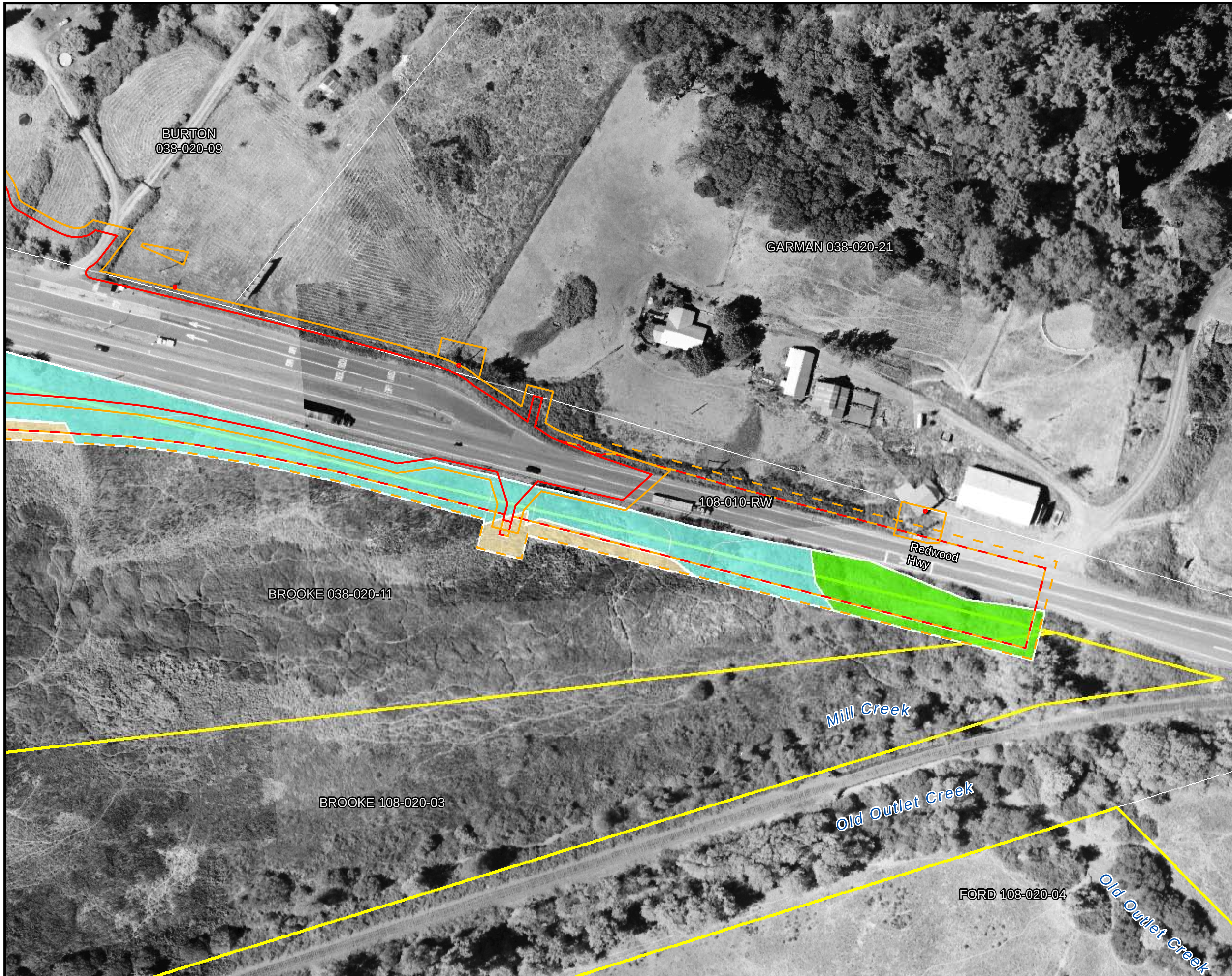
Sheet B-59

Riparian Habitat Impacts

Willits Bypass Project
Sensitive Biological Resources Impact Maps



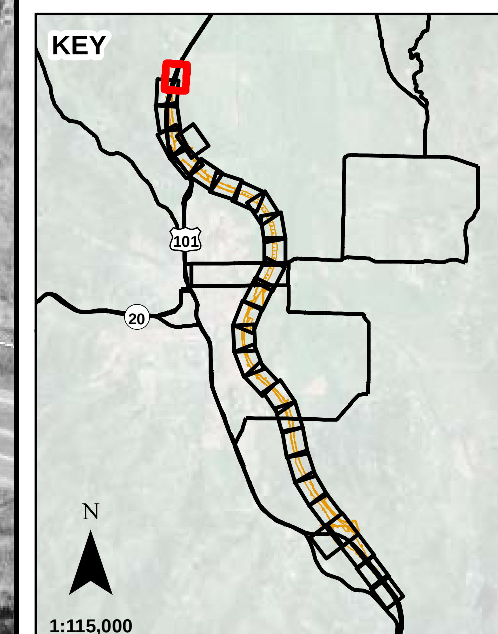
Legend

Alignment - Phase 1
- Permanent Impact Boundary
- Temporary Impact Boundary
- Support Columns

Alignment - Phase 2
- Permanent
- Temporary
- Support Columns
- Parcel
- Offsite Mitigation Parcel

Jurisdictional Wetlands and Other Waters
- Marsh
- Riparian Wetland
- Swale
- Vernal Pool
- Wet Meadow
- Other Waters

KEY



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0 100

Scale in Feet

Sheet B-60

Jurisdictional Wetland Impacts

Willits Bypass

Sensitive Biological Resources

Impact Maps

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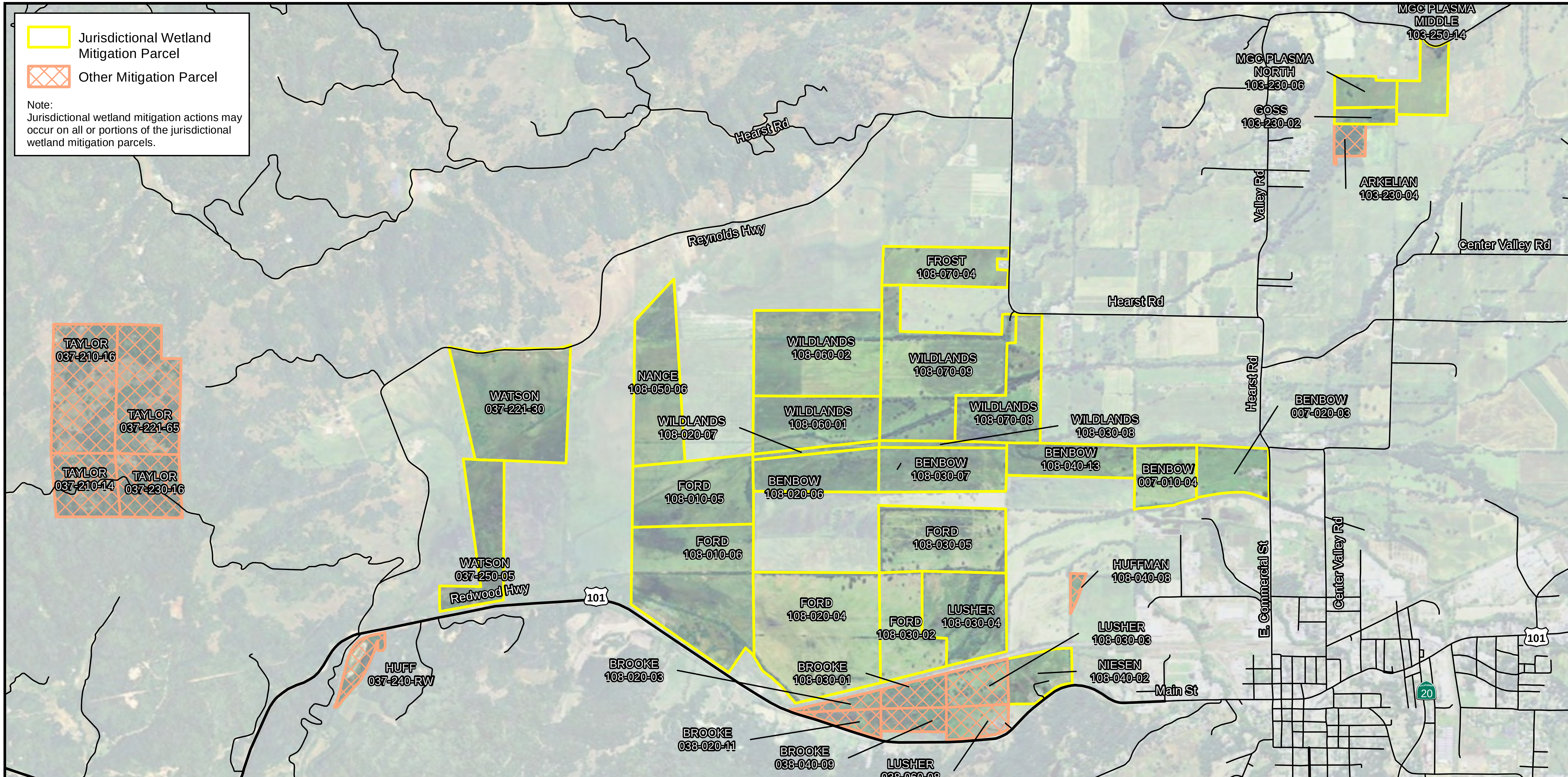


PARCEL	APN	Wetland Sheet	Mitigation Sheet
Arkelian	APN 103-230-04	C-4	-
Benbow	APN 108-020-06	C-5	C-6
Benbow	APN 108-030-07	C-7	C-8
Benbow	APN 108-040-13	C-9	C-10
Benbow	APNs 007-010-04 & 007-020-03	C-11	C-12
Brooke	APNs 108-020-03 & 038-020-11	C-13	-
Brooke	APNs 108-030-01 & 038-040-09	C-14	-
Ford	APN 108-010-06	C-15	C-16
Ford	APN 108-020-04	C-17	C-18
Ford	APN 108-030-02	C-19	C-20
Ford	APN 108-010-05	C-21	C-22
Ford	APN 108-030-05	C-23	C-24
Frost	APN 108-070-04	C-25	C-26

PARCEL	APN	Wetland Sheet	Mitigation Sheet
Goss	APN 103-230-02	C-27	C-28
Huff	APN 037-240-RW	C-29	-
Lusher	APNs 108-030-03 & 038-060-08	C-30	-
Lusher	APN 108-030-04	C-31	C-32
MGC Plasma-North & Middle	APNs 103-230-06 & 103-250-14	C-33	C-34
Nance	APN 108-050-06	C-35	C-36
Niesen	APN 108-040-02	C-37	C-38
Watson	APN 037-250-05	C-39	C-40
Watson	APN 037-221-30	C-41	C-42
Wildlands	APNs 108-060-01 & 108-020-07	C-43	C-44
Wildlands	APN 108-060-02	C-45	C-46
Wildlands	APNs 108-030-08, 108-070-08,& 108-070-09	C-47	C-48

0 0.5 1 Miles

Data Sources
Aerials - ArcGIS Online (NAIP 2005)
Parcels - Caltrans (10/5/2009)

N

Appendix C

Willits Bypass Sensitive Biological Resources on Mitigation Parcels and Mitigation Actions Proposed

Table C-1. Summary of Section 404 Jurisdictional Wetland Mitigation - Wetland Establishment

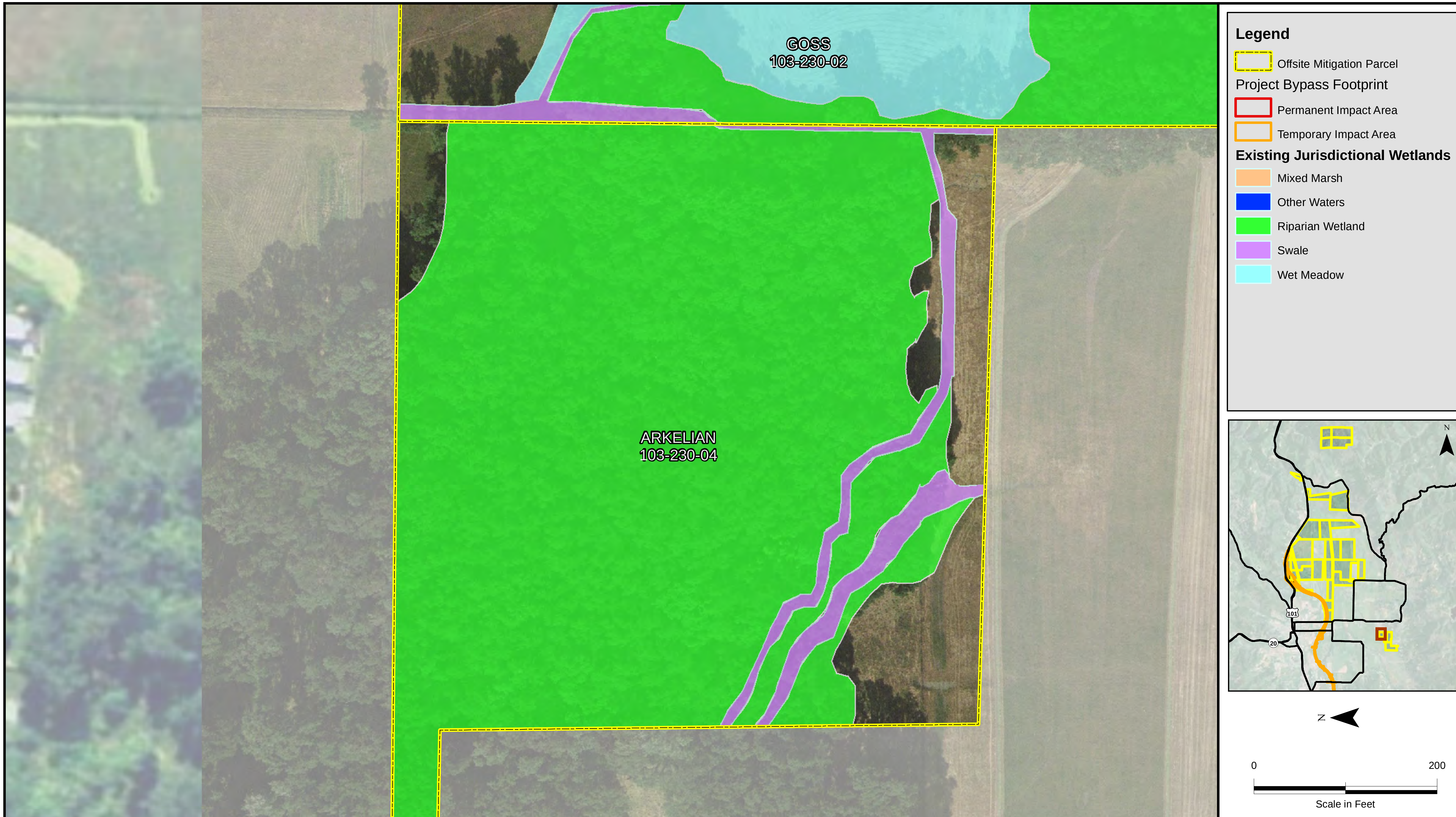
Parcel	APN	Group 1 Wetlands			Group 2 Wetlands			Total Wetland Establishment Credits
		Total Acreage of Established Wetlands (less area of temporary impact)	Credit Ratio	Wetland Credit	Total Acreage of Established Wetlands (less area of temporary impact)	Credit Ratio	Wetland Credit	
Benbow	108-020-06				1.34	0.30	0.40	0.40
Benbow	108-040-13				1.65	0.30	0.50	0.50
Ford	108-010-06	2.14	1.00	2.14				2.14
Ford	108-020-04				6.48	0.30	1.94	1.94
Ford	108-030-02				1.86	0.30	0.56	0.56
Goss	103-230-02	0.23	1.00	0.23				0.23
Lusher East	108-030-04				5.22	0.30	1.57	1.57
MGC Plasma North	103-230-06	5.34	1.00	5.34				5.34
MGC Plasma Middle	103-250-14	0.23	1.00	0.23				0.23
Niesen	108-040-02	5.12	1.00	5.12				5.12
Watson East	037-221-30	7.03	1.00	7.03	1.69	0.30	0.51	7.54
Wildlands	108-060-01				4.80	0.30	1.44	1.44
Wildlands	108-020-07				2.18	0.30	0.65	0.65
Wildlands	108-070-09				4.27	0.30	1.28	1.28
Totals		**20.09**		**20.09**	**29.49**		**8.85**	**28.94**

Table C-2. Summary of Section 404 Jurisdictional Wetland Mitigation - Wetland Rehabilitation

Parcel	APN	Total Acreage of Rehabilitation Unit	Type 1 (0.05 Credit)	Type 2 (0.1 Credit)	Type 3 (0.2 Credit)	Type 4 (0.3 Credit)	Type 5 (0.3 Credit)	Total Wetland Rehabilitation Credits Available
Benbow	108-030-07	19.57			3.91			3.91
Benbow	108-040-13	32.23			6.45			6.45
Benbow	007-010-04	18.57		1.86				1.86
		4.70			0.94			0.94
Benbow	007-020-03	11.45		1.15				1.15
		5.68			1.14			1.14
Ford	108-010-06	1.32					0.40	0.40
Ford	108-020-04	16.56			3.31			3.31
		10.31				3.09		3.09
		0.17					0.05	0.05
Ford	108-030-02	13.05			2.61			2.61
		14.66				4.40		4.40
Ford	108-010-05	6.44					1.93	1.93
Ford	108-030-05	61.75			12.35			12.35
Lusher East	108-030-04	18.04			3.61			3.61
MGC Plasma Middle	103-250-14	1.28				0.38		0.38
Nance	108-050-06	3.49					1.05	1.05
Niesen	108-040-02	1.47				0.44		0.44
Watson	037-250-05	49.53	2.48					2.48
Watson East	037-221-30	23.26	1.16					1.16
		1.80			0.36			0.36
Wildlands	108-060-01	2.97				0.89		0.89
Wildlands	108-060-02	7.33					2.20	2.20
Wildlands	108-070-09	3.44			0.69			0.69
		4.04				1.21		1.21
		2.35					0.71	0.71
Wildlands	108-030-08	2.08			0.42			0.42
Wildlands	108-070-08	0.11			0.02			0.02
		6.98				2.09		2.09
Totals		**344.63**	**3.64**	**3.00**	**35.80**	**12.51**	**6.33**	**61.29**

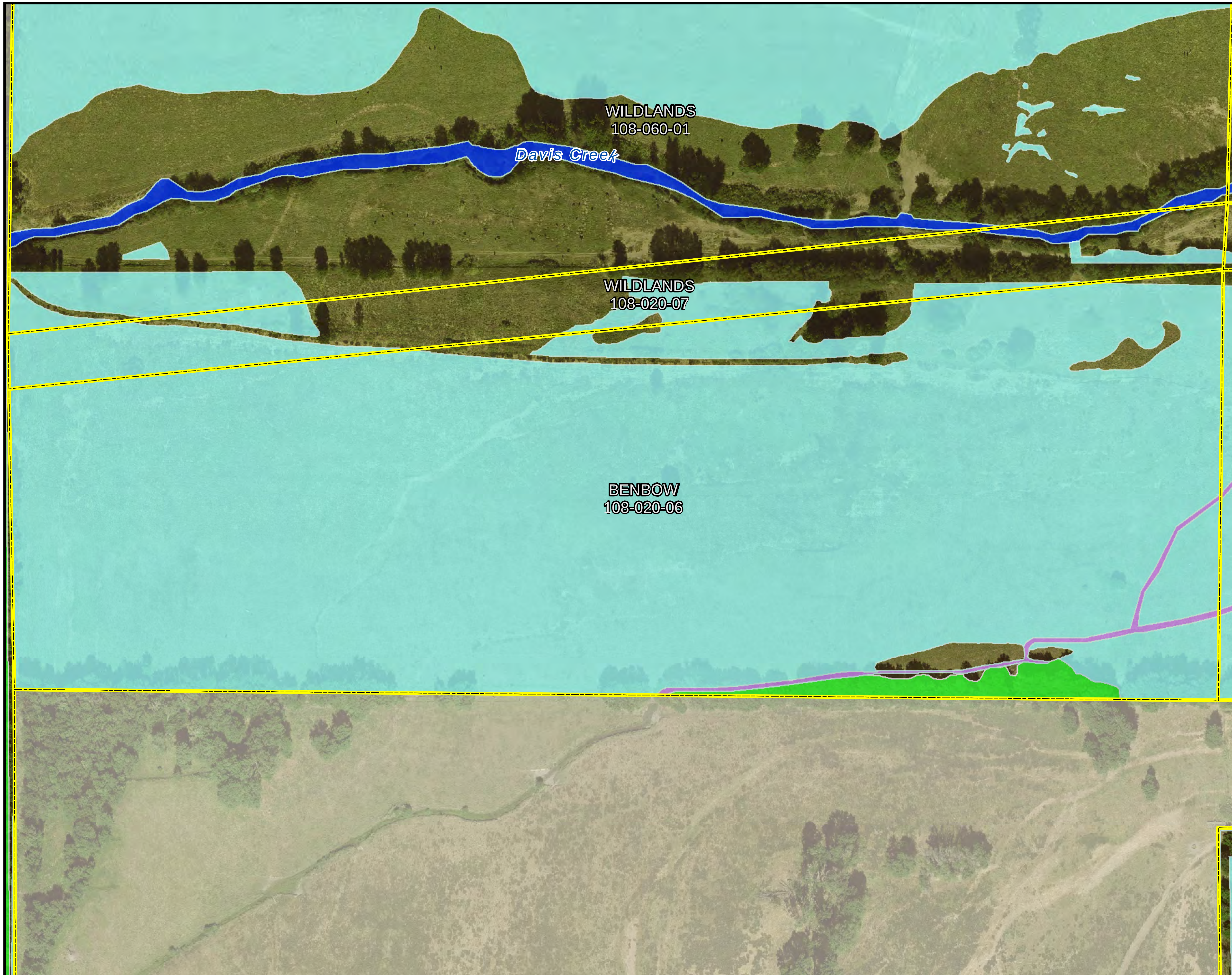
Table C-3. Summary of Parcel and Section 404 Jurisdictional Wetland Mitigation

			Section 404 Jurisdicational Wetland and Other Waters Mitigation									Non-Jurisdictional Land Cover Types			
			Wetland Establishment (Total Acreage of Mitigation Unit)		Wetland Rehabilitation (Total Acreage of Mitigation Unit)										
Parcel	APN	Total Parcel Acreage	Group 1	Group 2	Type 1	Type 2	Type 3	Type 4	Type 5	Other Waters of the U.S.	Non-Section 404 Jurisdictional Other Waters Mitigation	Grazed Land	Upland	Oak Woodland Mitigation	Totals
Benbow	007-010-04	36.16				18.57	4.70				1.15		11.74		36.16
Benbow	007-020-03	33.54				11.45	5.68				0.96		15.45		33.54
Benbow	108-020-06	46.53		2.25								44.28			46.53
Benbow	108-030-07	54.74					19.57					35.07	0.10		54.74
Benbow	108-040-13	40.96		2.17			32.23				4.33	0.03	2.20		40.96
Ford	108-010-05	76.57							6.44	5.05		65.08			76.57
Ford	108-010-06	138.87	2.85						1.32	11.10	7.60	114.66	1.34		138.87
Ford	108-020-04	143.75		7.00			16.56	10.31	0.17		14.98	89.76	4.97		143.75
Ford	108-030-02	50.99		1.86			13.05	14.66			5.12	8.82	7.48		50.99
Ford	108-030-05	80.39					61.75				10.71		7.93		80.39
Goss	103-230-02	10.08	0.55									9.53			10.08
Lusher East	108-030-04	66.17		5.92			18.04				17.62	20.42	4.17		66.17
MGC Plasma North	103-230-06	18.22	6.69									11.53			18.22
MGC Plasma Middle	103-250-14	27.04	0.23					1.28				22.97	2.56		27.04
Nance	108-050-06	73.90							3.49		1.18	69.23			73.90
Niesen	108-040-02	27.43	5.87					1.47					20.09		27.43
Watson	037-250-05	51.11			49.53								1.58		51.11
Watson East	037-221-30	115.60	8.34	3.61	23.26		1.80					71.21	0.14	7.24	115.60
Wildlands	108-020-07	7.77		2.47							2.29	1.65	1.36		7.77
Wildlands	108-030-08	8.00					2.08				0.24	4.93	0.75		8.00
Wildlands	108-060-01	63.39		5.25				2.97		3.26	8.32	40.60	2.99		63.39
Wildlands	108-060-02	106.81							7.33		4.72	94.76			106.81
Wildlands	108-070-08	64.06					0.11	6.98			7.11	47.93	1.93		64.06
Wildlands	108-070-09	121.87		4.34			3.44	4.04	2.35		14.79	88.47	4.44		121.87
Totals		1463.96	24.53	34.87	72.79	30.02	179.01	41.71	21.10	19.41	101.12	840.93	91.22	7.24	1463.96



Sheet C-4
Jurisdictional Wetlands
Arkelian
APN 103-230-04

Willits Bypass
Sensitive Biological Resources
on Mitigation Parcels



Legend

Offsite Mitigation Parcel

Project Bypass Footprint

Permanent Impact Area

Temporary Impact Area

Existing Jurisdictional Wetlands

Mixed Marsh

Other Waters

Riparian Wetland

Swale

Wet Meadow

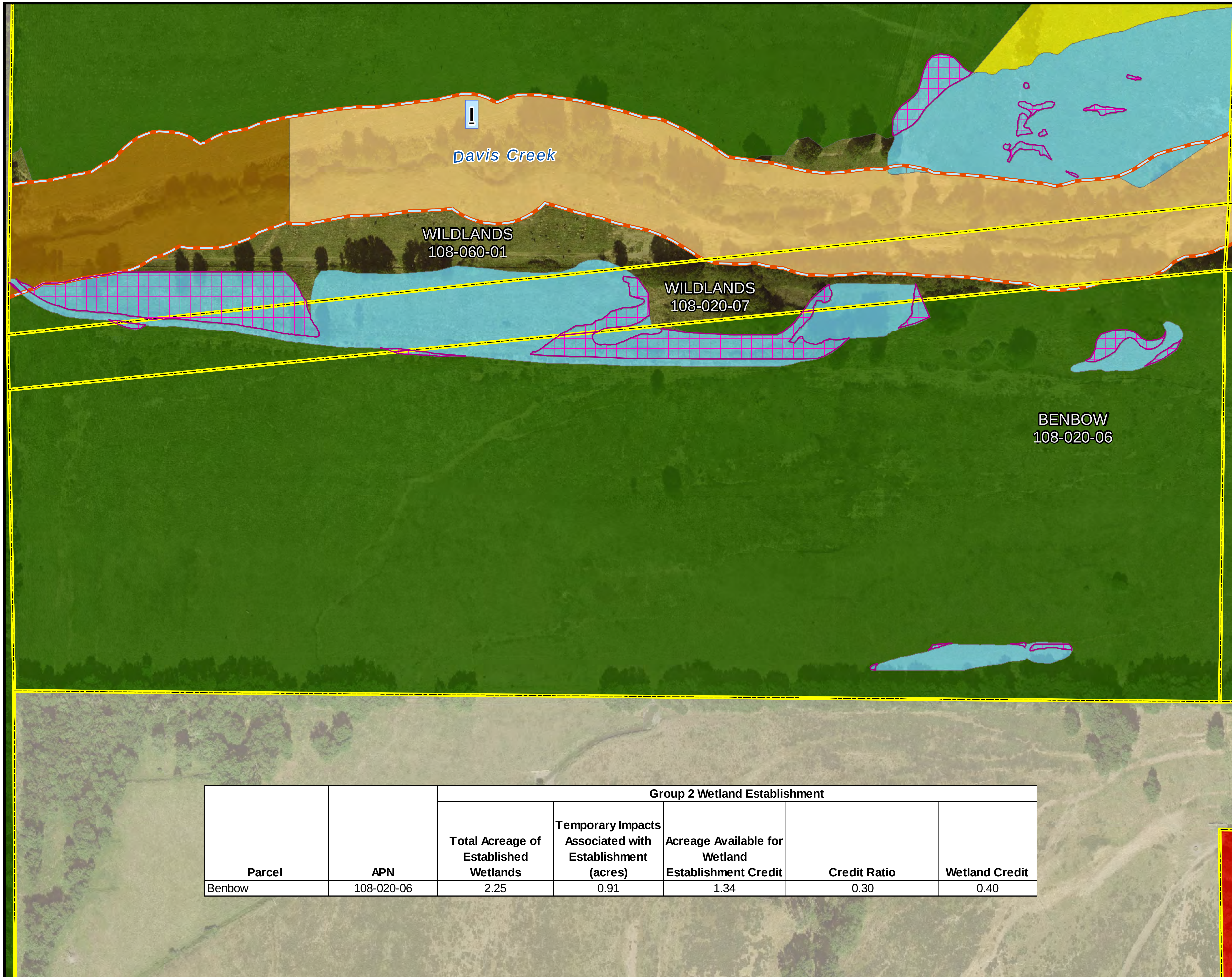
N

0 200

Scale in Feet

Sheet C-5
Jurisdictional Wetlands
Benbow
APN 108-020-06

Willits Bypass
Sensitive Biological Resources
on Mitigation Parcels



Parcel	APN	Group 2 Wetland Establishment				
		Total Acreage of Established Wetlands	Temporary Impacts Associated with Establishment (acres)	Acreage Available for Wetland Establishment Credit	Credit Ratio	Wetland Credit
Benbow	108-020-06	2.25	0.91	1.34	0.30	0.40

Offsite Mitigation Parcel

Project Bypass Footprint

Permanent Impact Area

Temporary Impact Area

Right of Way

Wetland Establishment

Group 1 - (1.0 Credit)

Group 2 - (0.3 Credit)

Overlap with Existing Wetlands

Wetland Rehabilitation

Type 1 - (0.05 Credit)

Type 2 - (0.1 Credit)

Type 3 - (0.2 Credit)

Type 4 - (0.3 Credit)

Type 5 - (0.3 Credit)

Other Waters Rehabilitation

Other Waters Rehabilitation

Repair Headcut or Eroding Bank

Other Offsite Mitigation Actions, No Jurisdictional Credits Proposed

Other Waters Rehabilitation

Grazing

Category I Riparian Corridor

Category II Riparian Corridor

Category III Riparian Corridor

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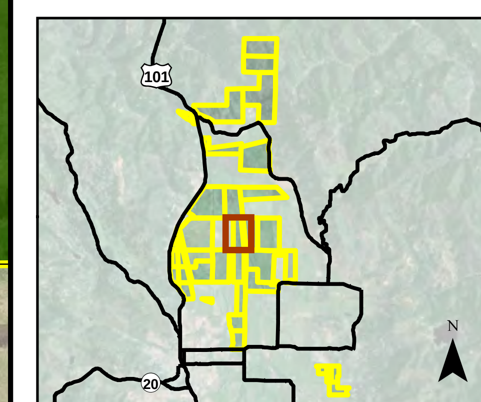

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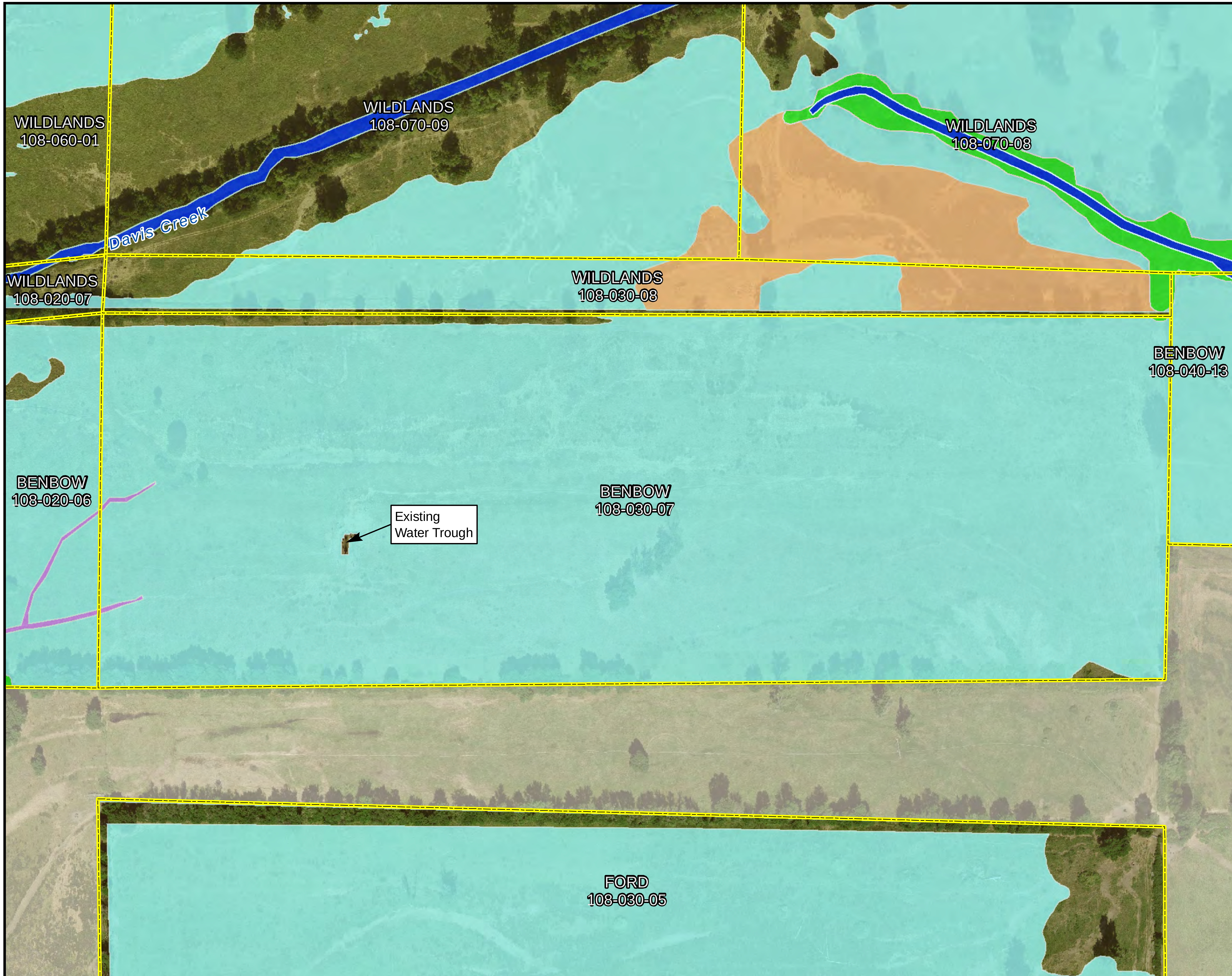
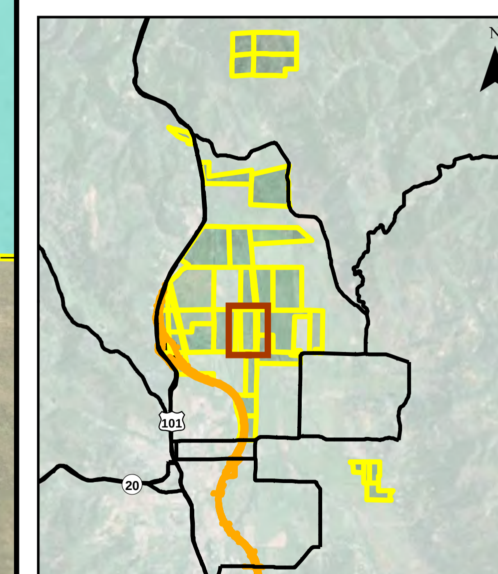
Feet

Sheet C-6
Mitigation Actions
Benbow
APN 108-020-06

Willits Bypass
Wetland Establishment and Rehabilitation,
and Other Waters Rehabilitation





Legend

Offsite Mitigation Parcel

Project Bypass Footprint

Permanent Impact Area

Temporary Impact Area

Existing Jurisdictional Wetlands

Mixed Marsh

Other Waters

Riparian Wetland

Swale

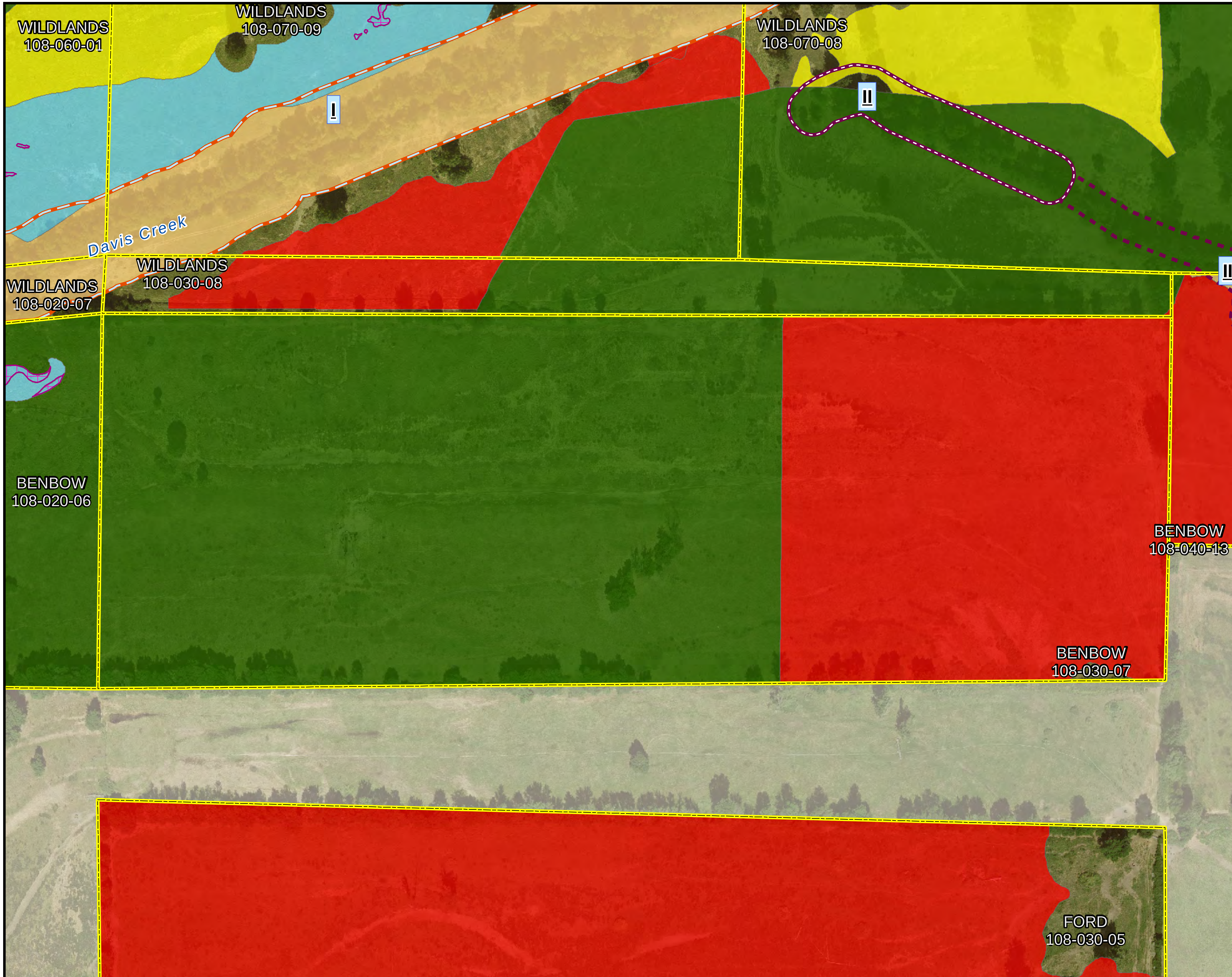
Wet Meadow

0 200

Scale in Feet

Sheet C-7
Jurisdictional Wetlands
Benbow
APN 108-030-07

Willits Bypass
Sensitive Biological Resources
on Mitigation Parcels



Offsite Mitigation Parcel

Project Bypass Footprint

Permanent Impact Area

Temporary Impact Area

Right of Way

Wetland Establishment

Group 1 - (1.0 Credit)

Group 2 - (0.3 Credit)

Overlap with Existing Wetlands

Wetland Rehabilitation

Type 1 - (0.05 Credit)

Type 2 - (0.1 Credit)

Type 3 - (0.2 Credit)

Type 4 - (0.3 Credit)

Type 5 - (0.3 Credit)

Other Waters Rehabilitation

Other Waters Rehabilitation

Repair Headcut or Eroding Bank

Other Offsite Mitigation Actions, No Jurisdictional Credits Proposed

Other Waters Rehabilitation

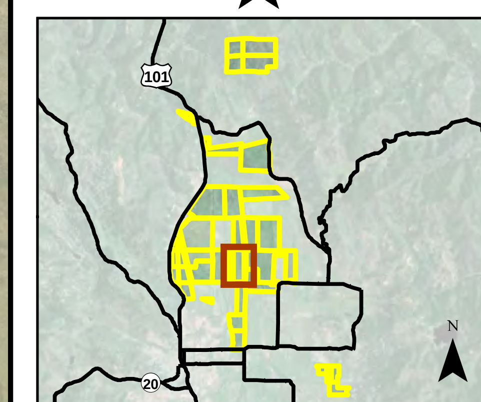
Grazing

Category I Riparian Corridor

Category II Riparian Corridor

Category III Riparian Corridor

N



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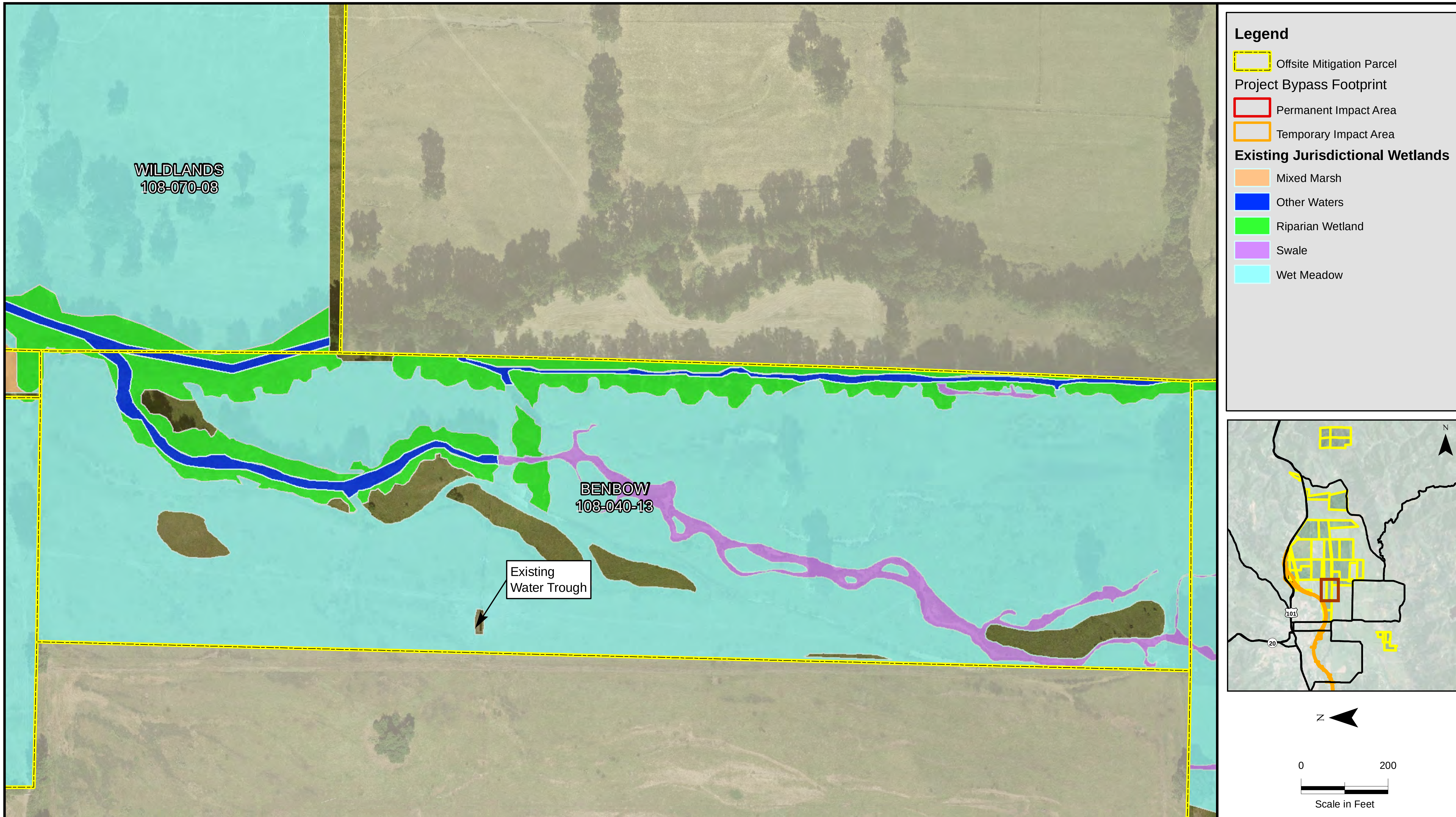
Feet

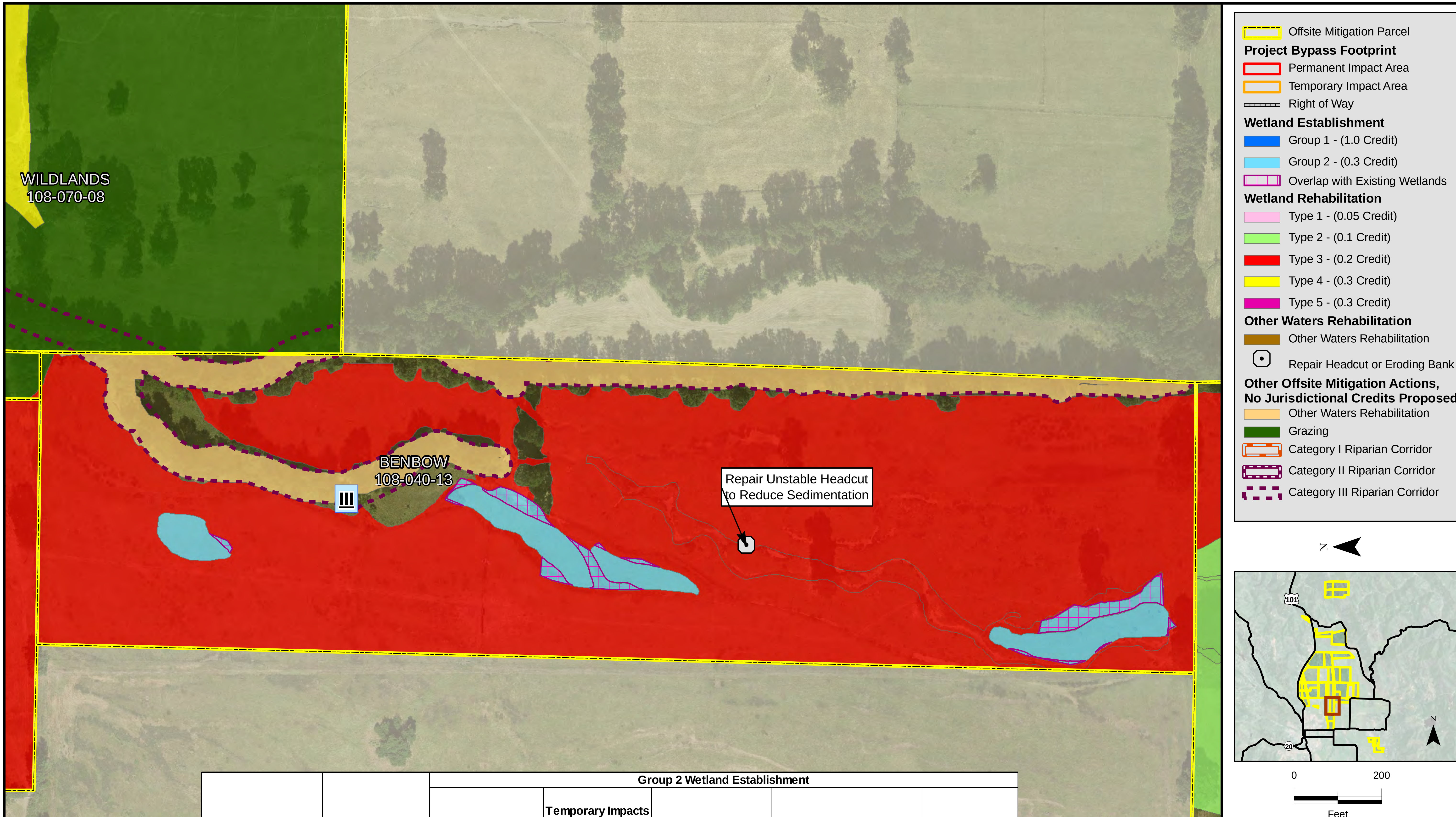
Sheet C-8
Mitigation Actions
Benbow
APN 108-030-07

Willits Bypass
Wetland Establishment and Rehabilitation,
and Other Waters Rehabilitation



Sheet C-9
Jurisdictional Wetlands
Benbow
APN 108-040-13

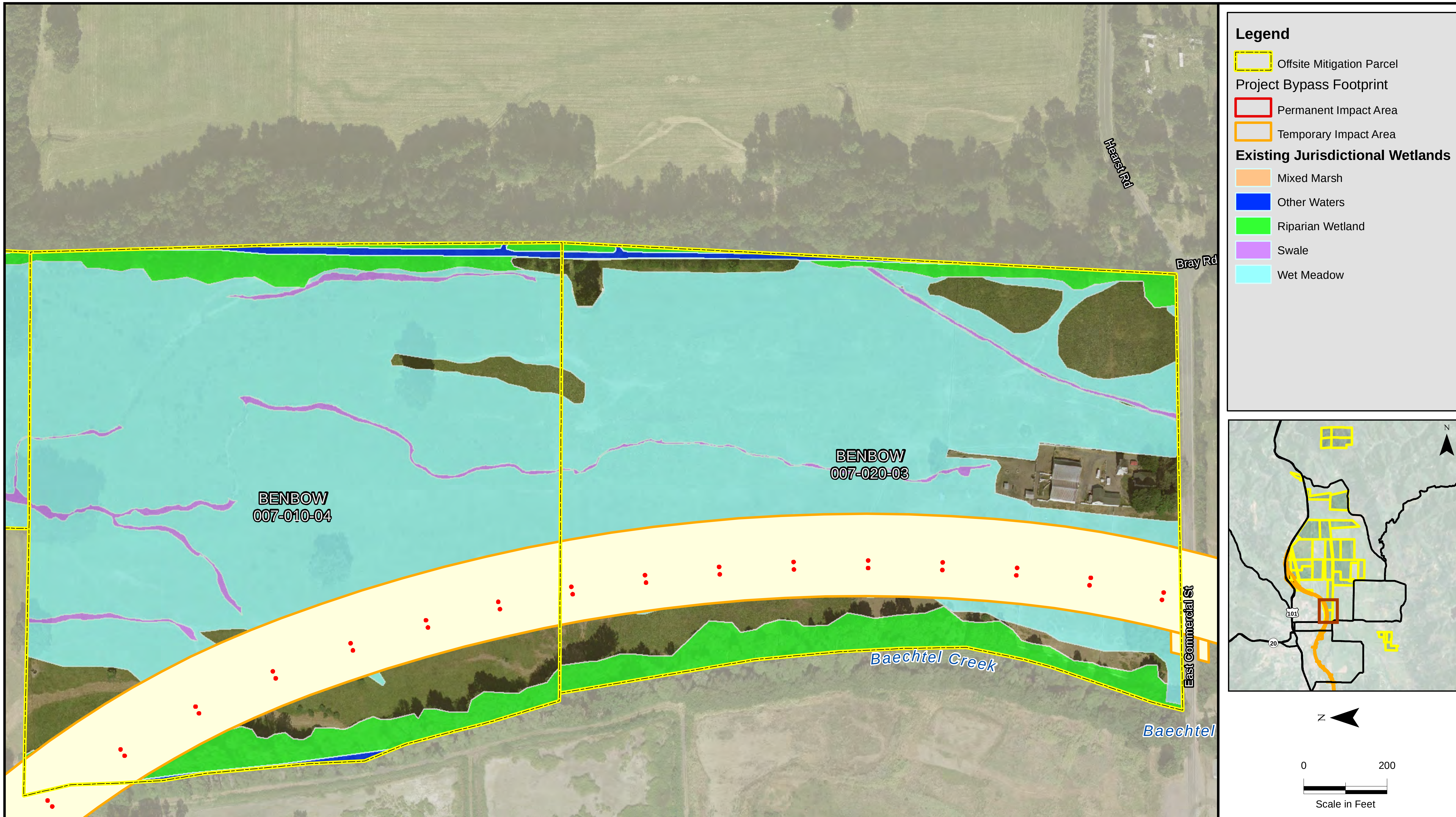
Willits Bypass
Sensitive Biological Resources
on Mitigation Parcels



Parcel	APN	Group 2 Wetland Establishment				
		Total Acreage of Established Wetlands	Temporary Impacts Associated with Establishment (acres)	Acreage Available for Wetland Establishment Credit	Credit Ratio	Wetland Credit
Benbow	108-040-13	2.17	0.52	1.65	0.30	0.50

Sheet C-10
Mitigation Actions
Benbow
APN 108-040-13

Willits Bypass
Wetland Establishment and Rehabilitation, and Other Waters Rehabilitation

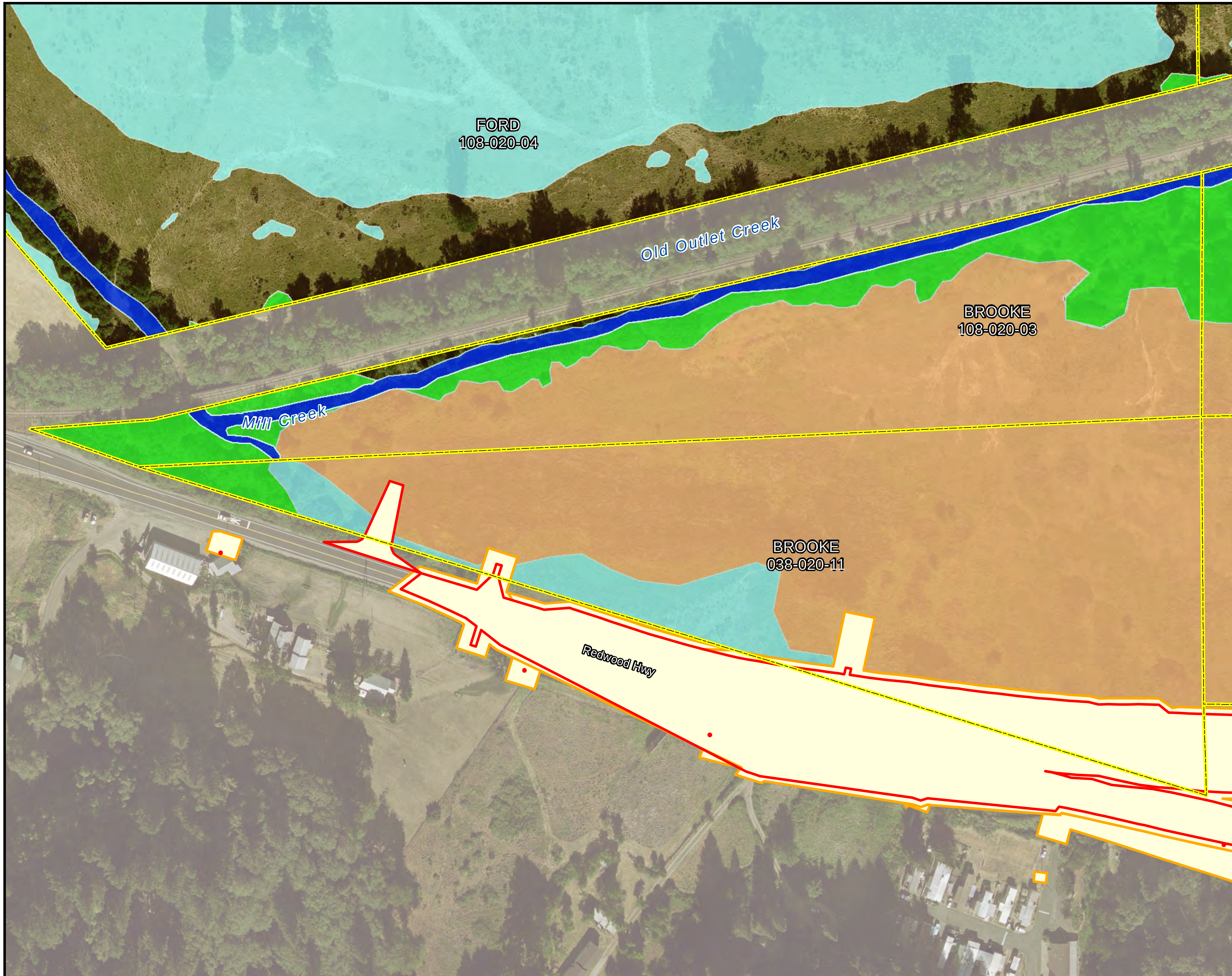


Sheet C-11
Jurisdictional Wetlands
Benbow
APNs 007-010-04 & 007-020-03

Willits Bypass
Sensitive Biological Resources
on Mitigation Parcels

Sheet C-12
Mitigation Actions
Benbow
APNs 007-010-04 & 007-020-03

Willits Bypass
Wetland Establishment and Rehabilitation,
and Other Waters Rehabilitation



Legend

Offsite Mitigation Parcel

Project Bypass Footprint

Permanent Impact Area

Temporary Impact Area

Existing Jurisdictional Wetlands

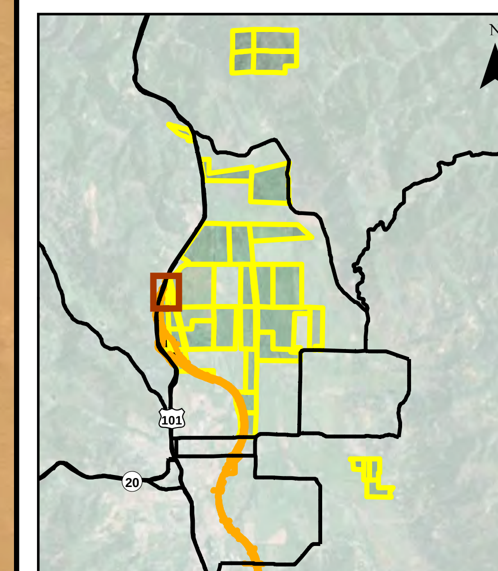
Mixed Marsh

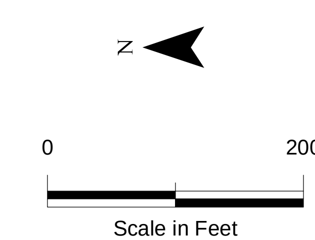
Other Waters

Riparian Wetland

Swale

Wet Meadow





Sheet C-13
Jurisdictional Wetlands
Brooke
APNs 108-020-03 & 038-020-11

Willits Bypass
Sensitive Biological Resources
on Mitigation Parcels

Legend

Offsite Mitigation Parcel

Project Bypass Footprint

Permanent Impact Area

Temporary Impact Area

Existing Jurisdictional Wetlands

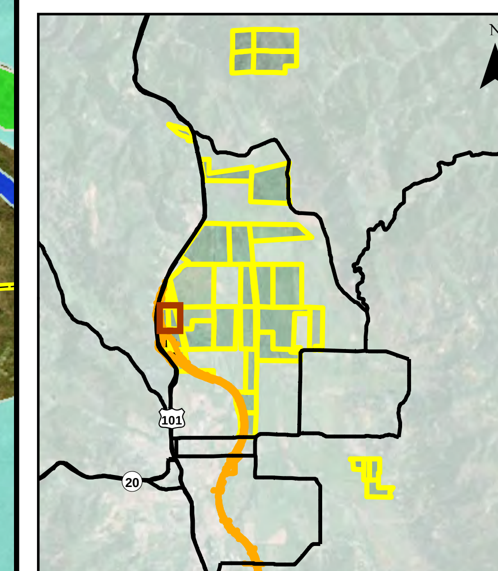
Mixed Marsh

Other Waters

Riparian Wetland

Swale

Wet Meadow



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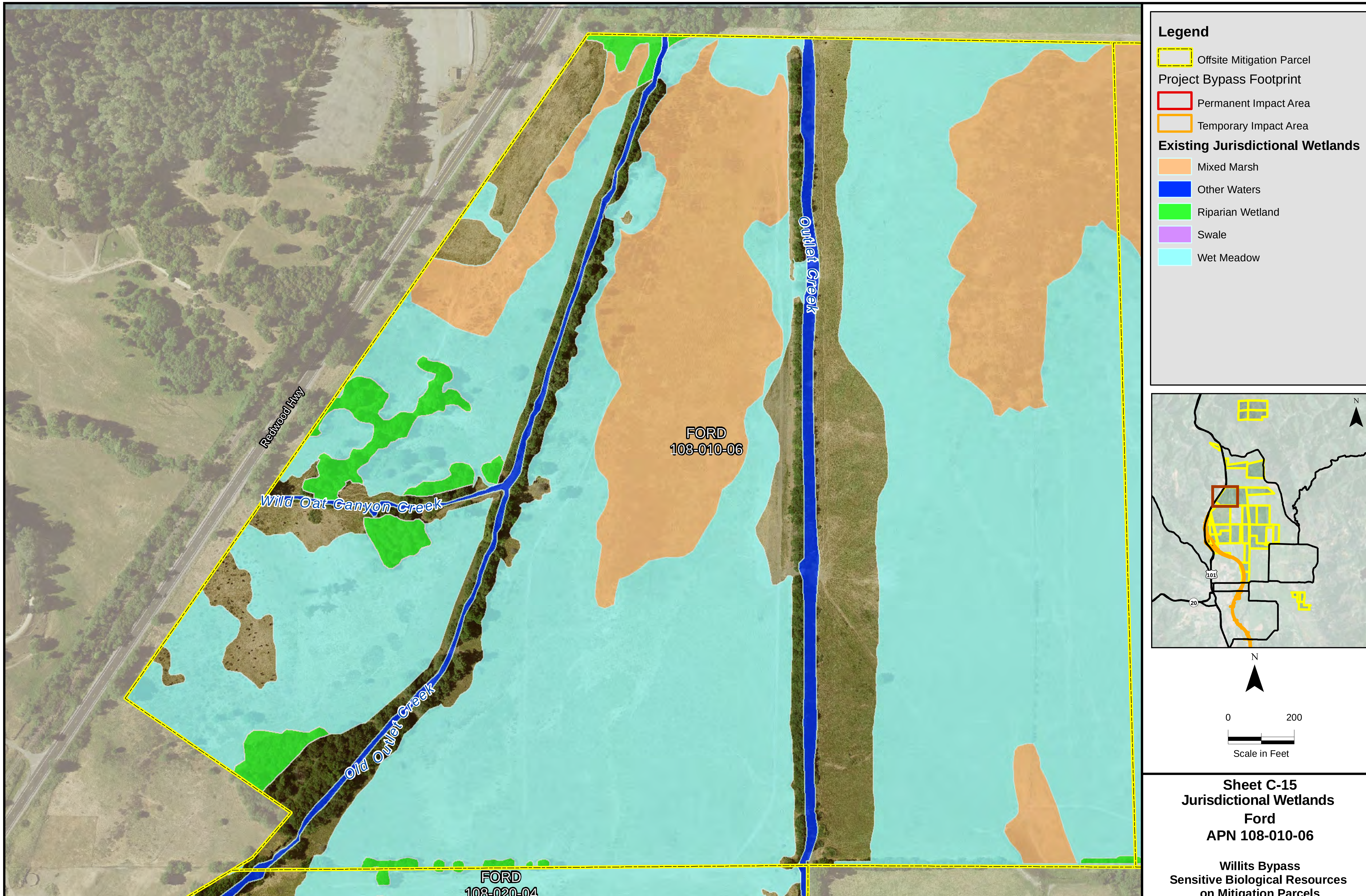
Scale in Feet

Sheet C-14
Jurisdictional Wetlands
Brooke
APNs 108-030-01 & 038-040-09

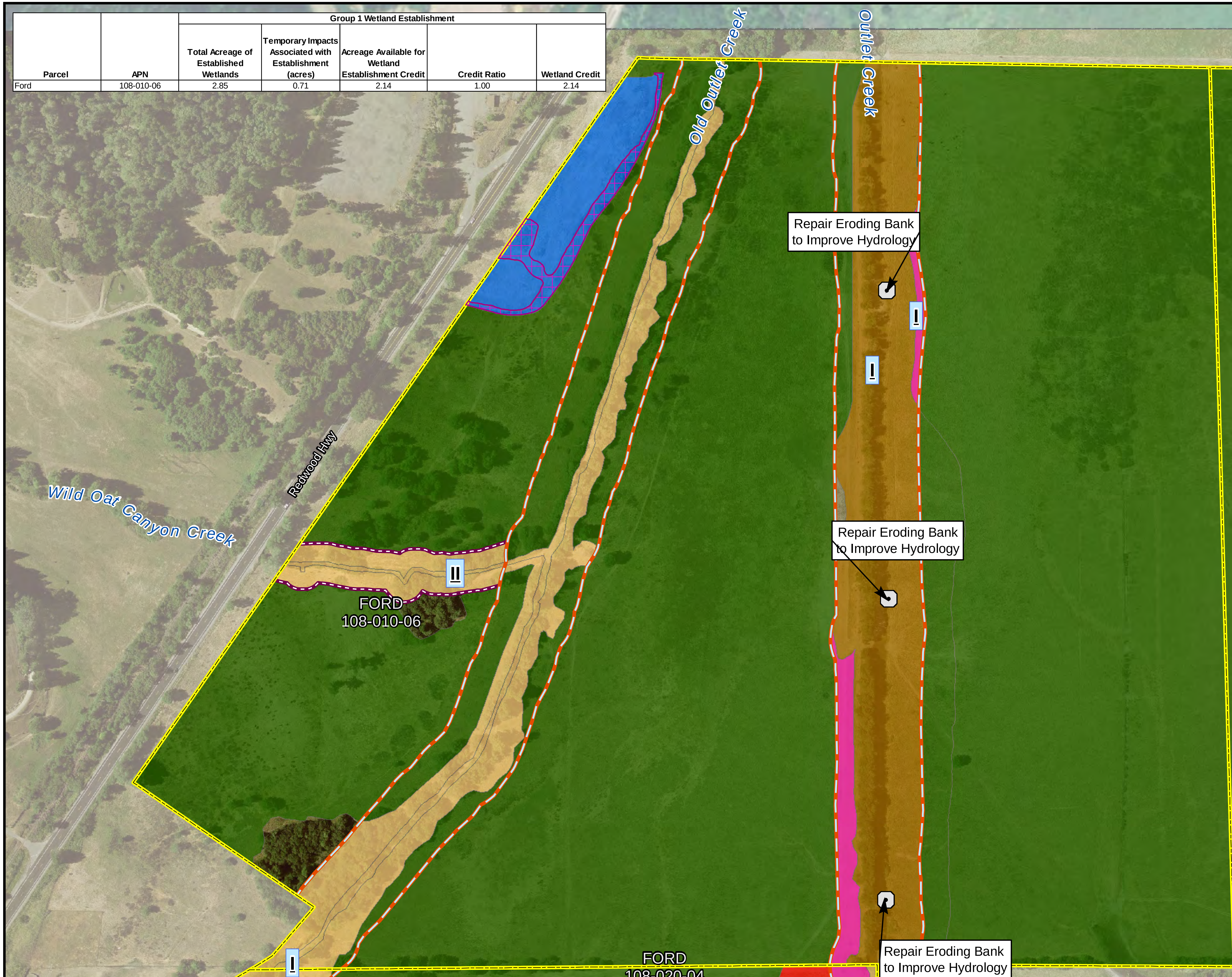
Willits Bypass
Sensitive Biological Resources
on Mitigation Parcels



Sheet C-15
Jurisdictional Wetlands
Ford
APN 108-010-06

Willits Bypass
Sensitive Biological Resources
on Mitigation Parcels

Parcel	APN	Group 1 Wetland Establishment				
		Total Acreage of Established Wetlands	Temporary Impacts Associated with Establishment (acres)	Acreage Available for Wetland Establishment Credit	Credit Ratio	Wetland Credit
Ford	108-010-06	2.85	0.71	2.14	1.00	2.14



Offsite Mitigation Parcel

Project Bypass Footprint

Permanent Impact Area

Temporary Impact Area

Right of Way

Wetland Establishment

Group 1 - (1.0 Credit)

Group 2 - (0.3 Credit)

Overlap with Existing Wetlands

Wetland Rehabilitation

Type 1 - (0.05 Credit)

Type 2 - (0.1 Credit)

Type 3 - (0.2 Credit)

Type 4 - (0.3 Credit)

Type 5 - (0.3 Credit)

Other Waters Rehabilitation

Other Waters Rehabilitation

Repair Headcut or Eroding Bank

Other Offsite Mitigation Actions, No Jurisdictional Credits Proposed

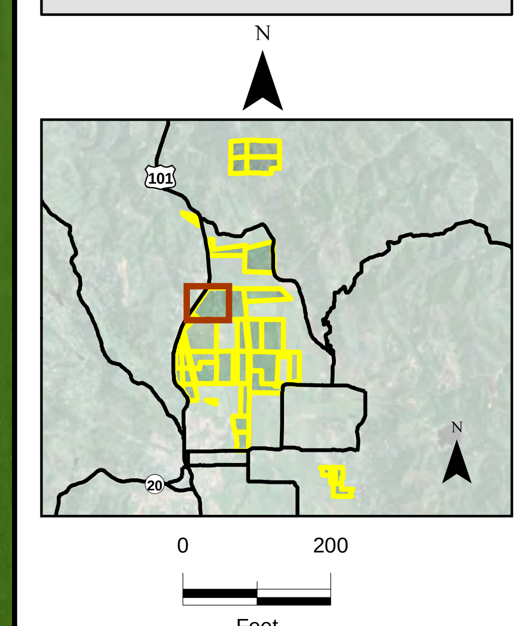
Other Waters Rehabilitation

Grazing

Category I Riparian Corridor

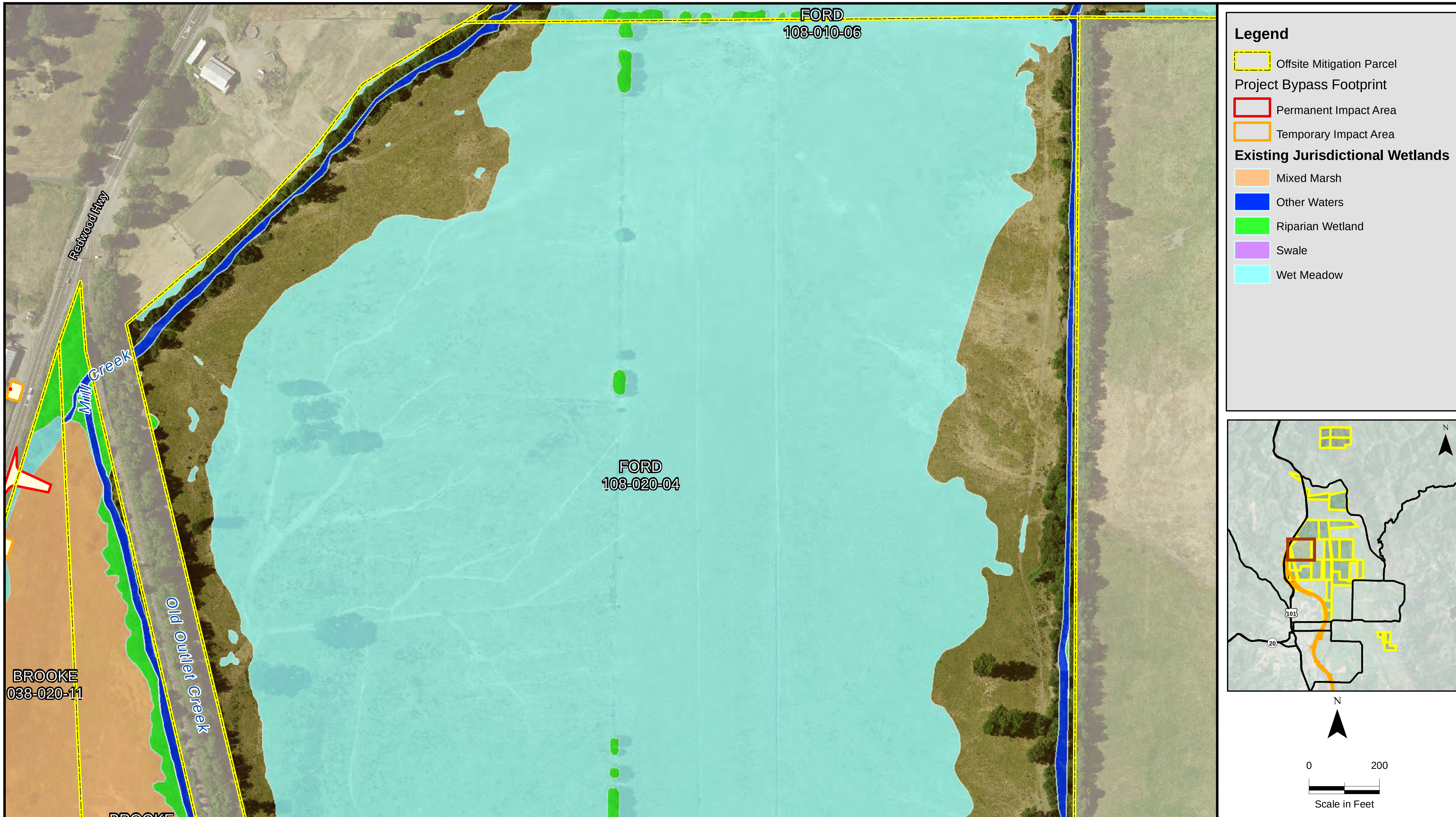
Category II Riparian Corridor

Category III Riparian Corridor



Sheet C-16
Mitigation Actions
Ford
APN 108-010-06

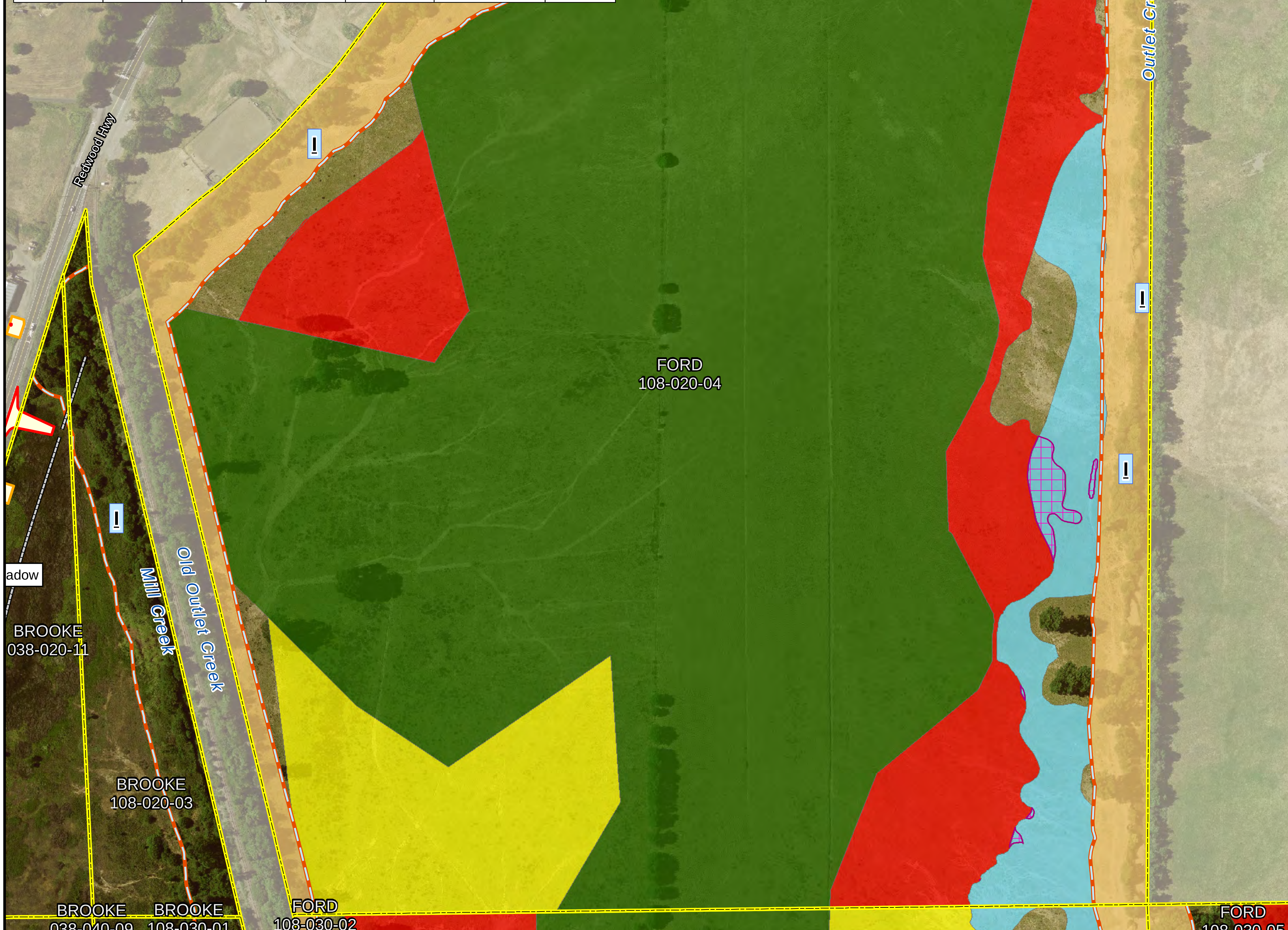
Willits Bypass
Wetland Establishment and Rehabilitation,
and Other Waters Rehabilitation



Sheet C-17
Jurisdictional Wetlands
Ford
APN 108-020-04

Willits Bypass
Sensitive Biological Resources
on Mitigation Parcels

Parcel	APN	Group 2 Wetland Establishment: Total Acreage of Established Wetlands	Temporary Impacts Associated with Establishment (acres)	Acreage Available for Wetland Establishment Credit	Credit Ratio	Wetland Credit
Ford	108-020-04	7.00	0.52	6.48	0.30	1.94



Offsite Mitigation Parcel

Project Bypass Footprint

- Permanent Impact Area
- Temporary Impact Area
- Right of Way

Wetland Establishment

- Group 1 - (1.0 Credit)
- Group 2 - (0.3 Credit)
- Overlap with Existing Wetlands

Wetland Rehabilitation

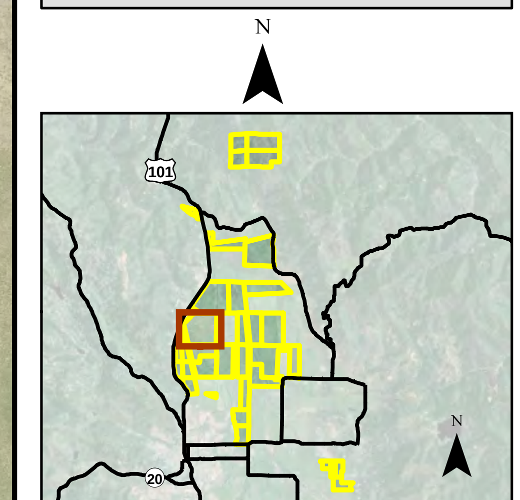
- Type 1 - (0.05 Credit)
- Type 2 - (0.1 Credit)
- Type 3 - (0.2 Credit)
- Type 4 - (0.3 Credit)
- Type 5 - (0.3 Credit)

Other Waters Rehabilitation

- Other Waters Rehabilitation
- Repair Headcut or Eroding Bank

Other Offsite Mitigation Actions, No Jurisdictional Credits Proposed

- Other Waters Rehabilitation
- Grazing
- Category I Riparian Corridor
- Category II Riparian Corridor
- Category III Riparian Corridor



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Feet

Sheet C-18
Mitigation Actions
Ford
APN 108-020-04

Willits Bypass
Wetland Establishment and Rehabilitation,
and Other Waters Rehabilitation

Legend

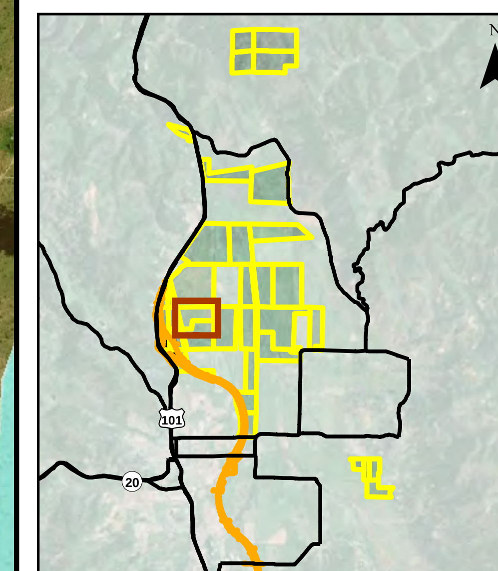
- Offsite Mitigation Parcel

Project Bypass Footprint

- Permanent Impact Area
- Temporary Impact Area

Existing Jurisdictional Wetlands

- Mixed Marsh
- Other Waters
- Riparian Wetland
- Swale
- Wet Meadow



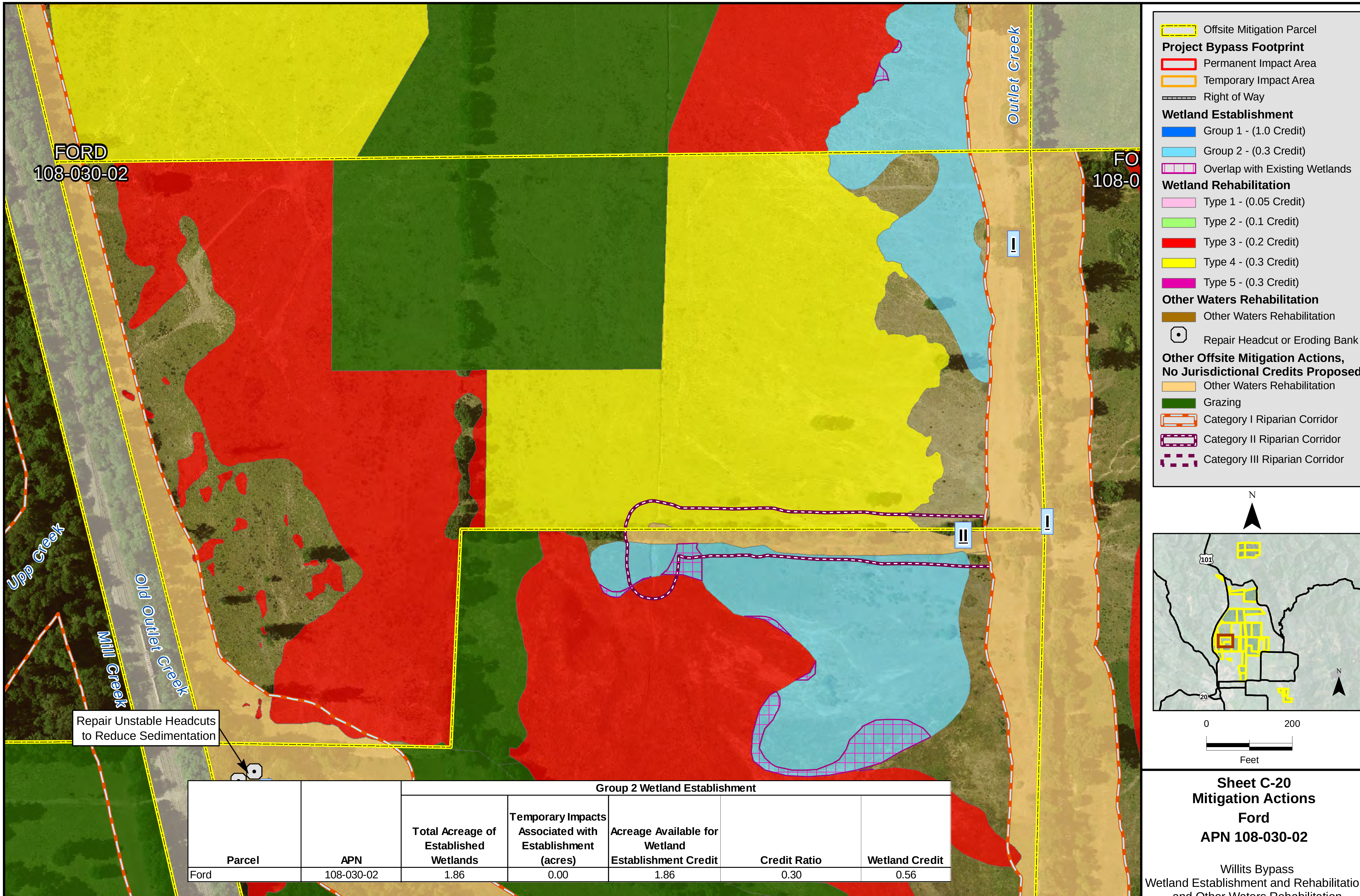
N

0 200

Scale in Feet

Sheet C-19
Jurisdictional Wetlands
Ford
APN 108-030-02

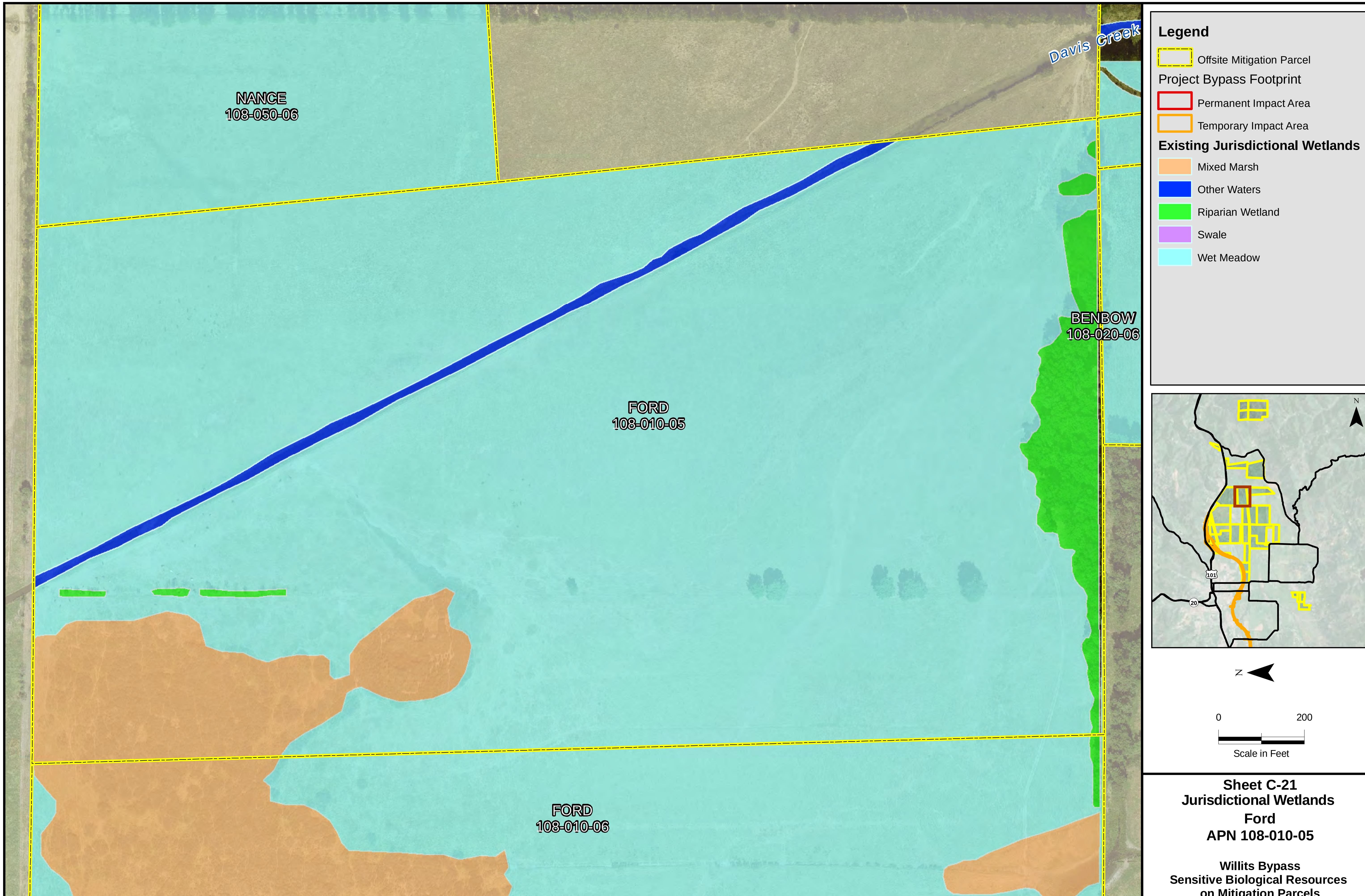
Willits Bypass
Sensitive Biological Resources
on Mitigation Parcels



Parcel	APN	Group 2 Wetland Establishment				
		Total Acreage of Established Wetlands	Temporary Impacts Associated with Establishment (acres)	Acreage Available for Wetland Establishment Credit	Credit Ratio	Wetland Credit
Ford	108-030-02	1.86	0.00	1.86	0.30	0.56

Sheet C-20
Mitigation Actions
Ford
APN 108-030-02

Willits Bypass
Wetland Establishment and Rehabilitation, and Other Waters Rehabilitation



Legend

Offsite Mitigation Parcel

Project Bypass Footprint

Permanent Impact Area

Temporary Impact Area

Existing Jurisdictional Wetlands

Mixed Marsh

Other Waters

Riparian Wetland

Swale

Wet Meadow

Sheet C-21
Jurisdictional Wetlands
Ford
APN 108-010-05

Willits Bypass
Sensitive Biological Resources
on Mitigation Parcels

Offsite Mitigation Parcel

Project Bypass Footprint

Permanent Impact Area

Temporary Impact Area

Right of Way

Wetland Establishment

Group 1 - (1.0 Credit)

Group 2 - (0.3 Credit)

Overlap with Existing Wetlands

Wetland Rehabilitation

Type 1 - (0.05 Credit)

Type 2 - (0.1 Credit)

Type 3 - (0.2 Credit)

Type 4 - (0.3 Credit)

Type 5 - (0.3 Credit)

Other Waters Rehabilitation

Other Waters Rehabilitation

Repair Headcut or Eroding Bank

Other Offsite Mitigation Actions, No Jurisdictional Credits Proposed

Other Waters Rehabilitation

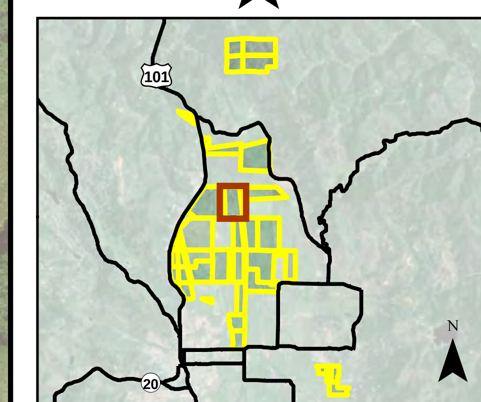
Grazing

Category I Riparian Corridor

Category II Riparian Corridor

Category III Riparian Corridor

N



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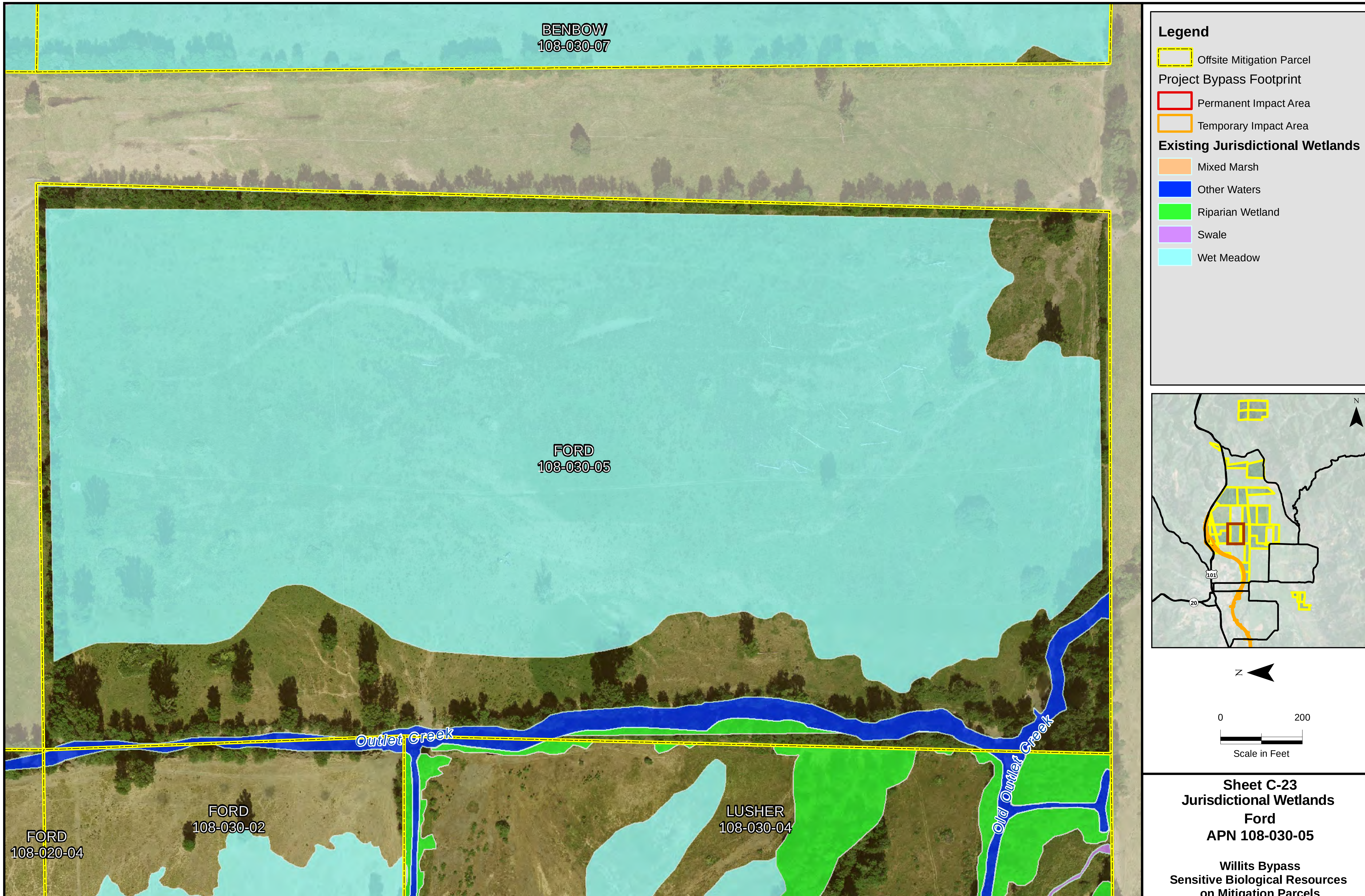
Feet

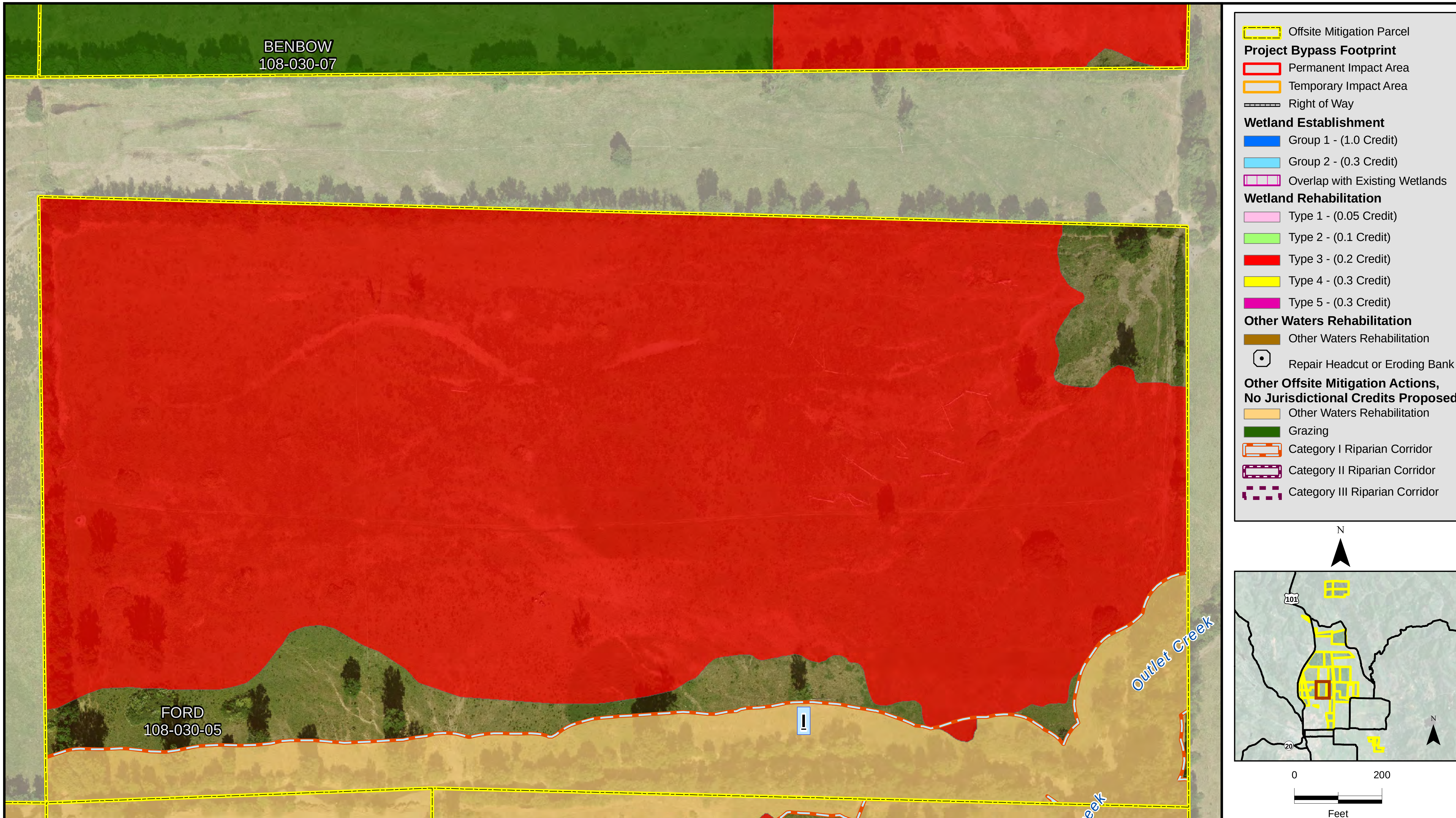
Sheet C-22
Mitigation Actions
Ford
APN 108-010-05

Willits Bypass
Wetland Establishment and Rehabilitation,
and Other Waters Rehabilitation



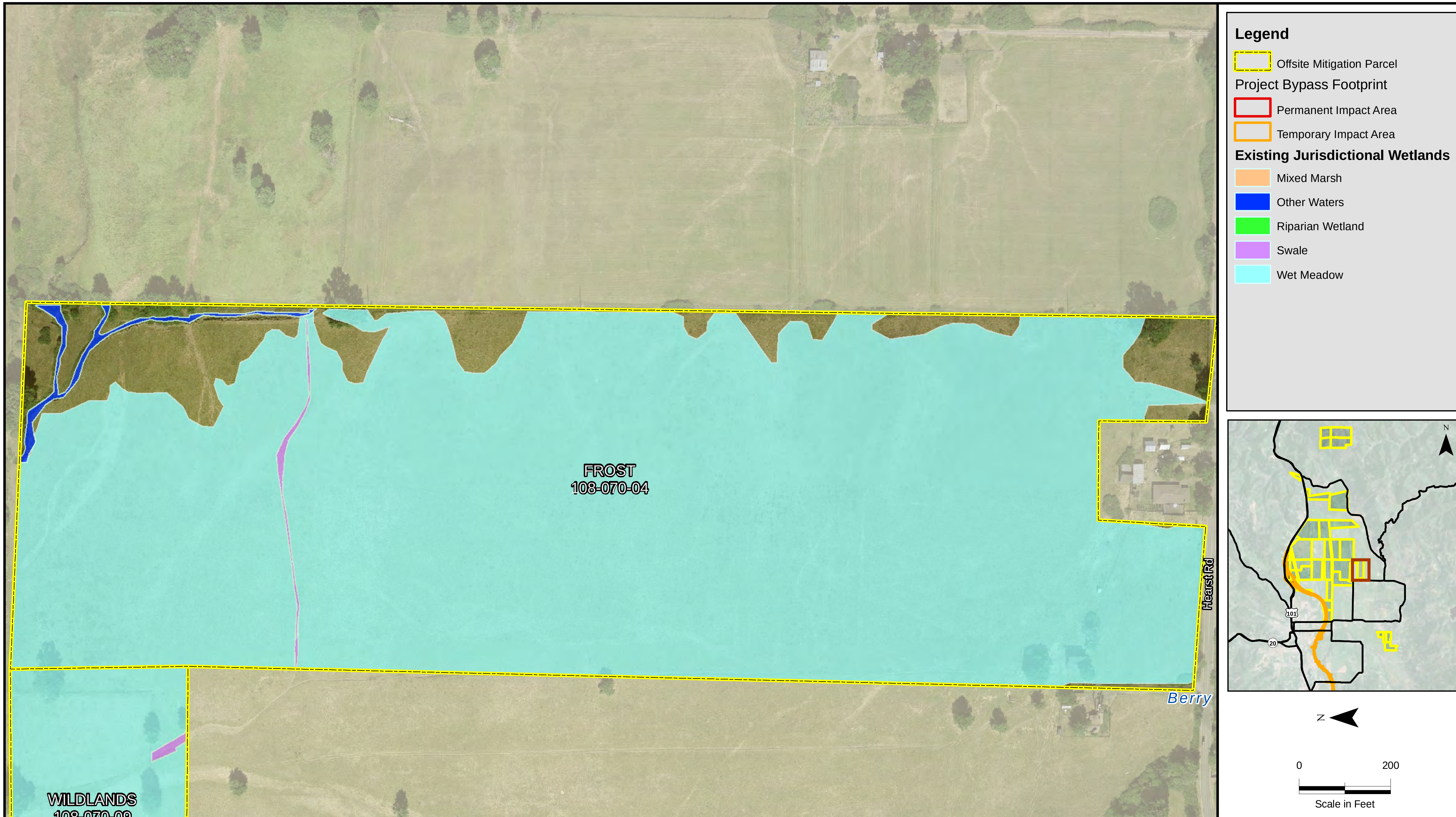
Sheet C-23
Jurisdictional Wetlands
Ford
APN 108-030-05

Willits Bypass
Sensitive Biological Resources
on Mitigation Parcels



Sheet C-24
Mitigation Actions
Ford
APN 108-030-05

Willits Bypass
Wetland Establishment and Rehabilitation,
and Other Waters Rehabilitation

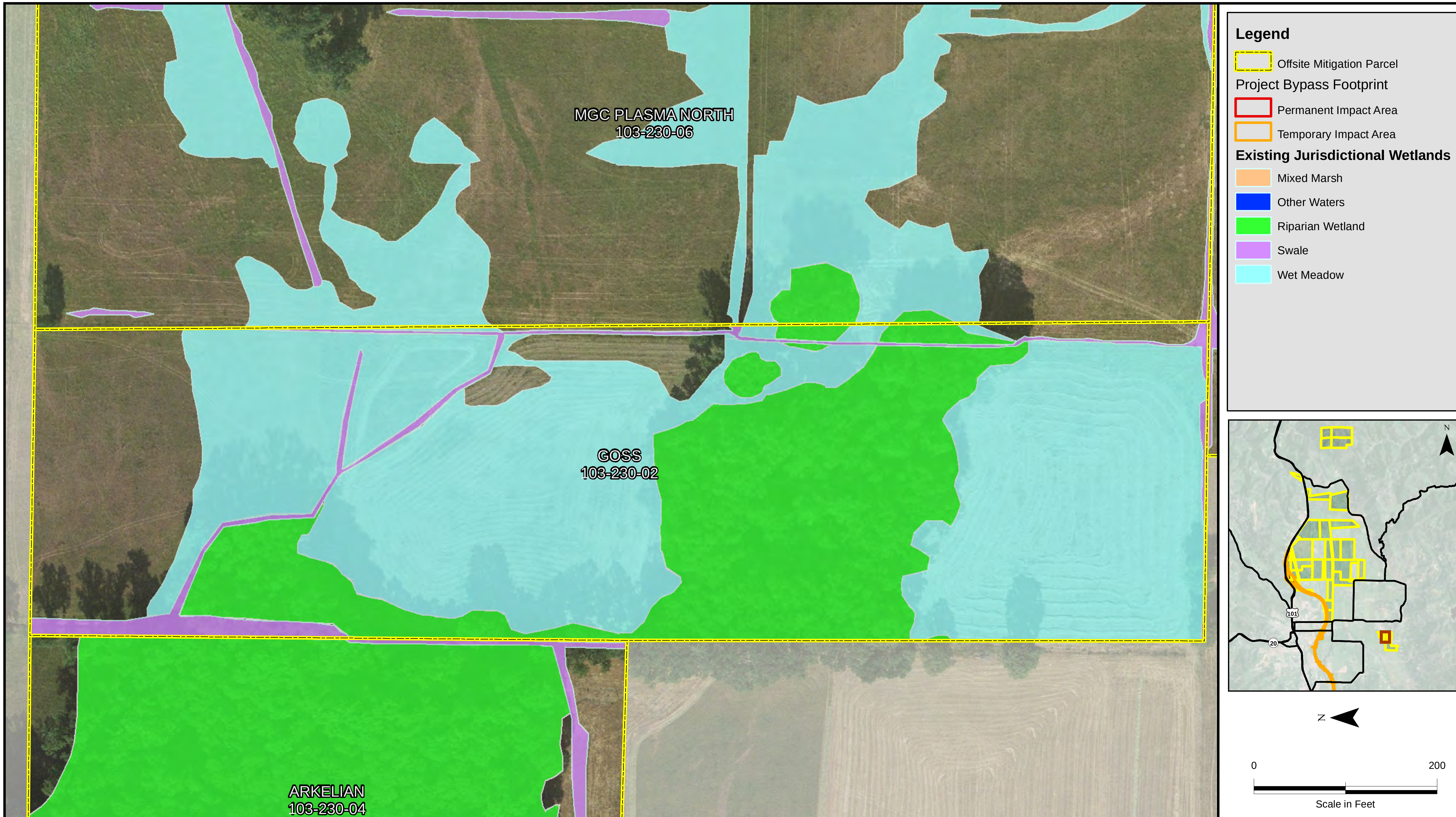


Sheet C-25
Jurisdictional Wetlands
Frost
APN 108-070-04

Willits Bypass
Sensitive Biological Resources
on Mitigation Parcels

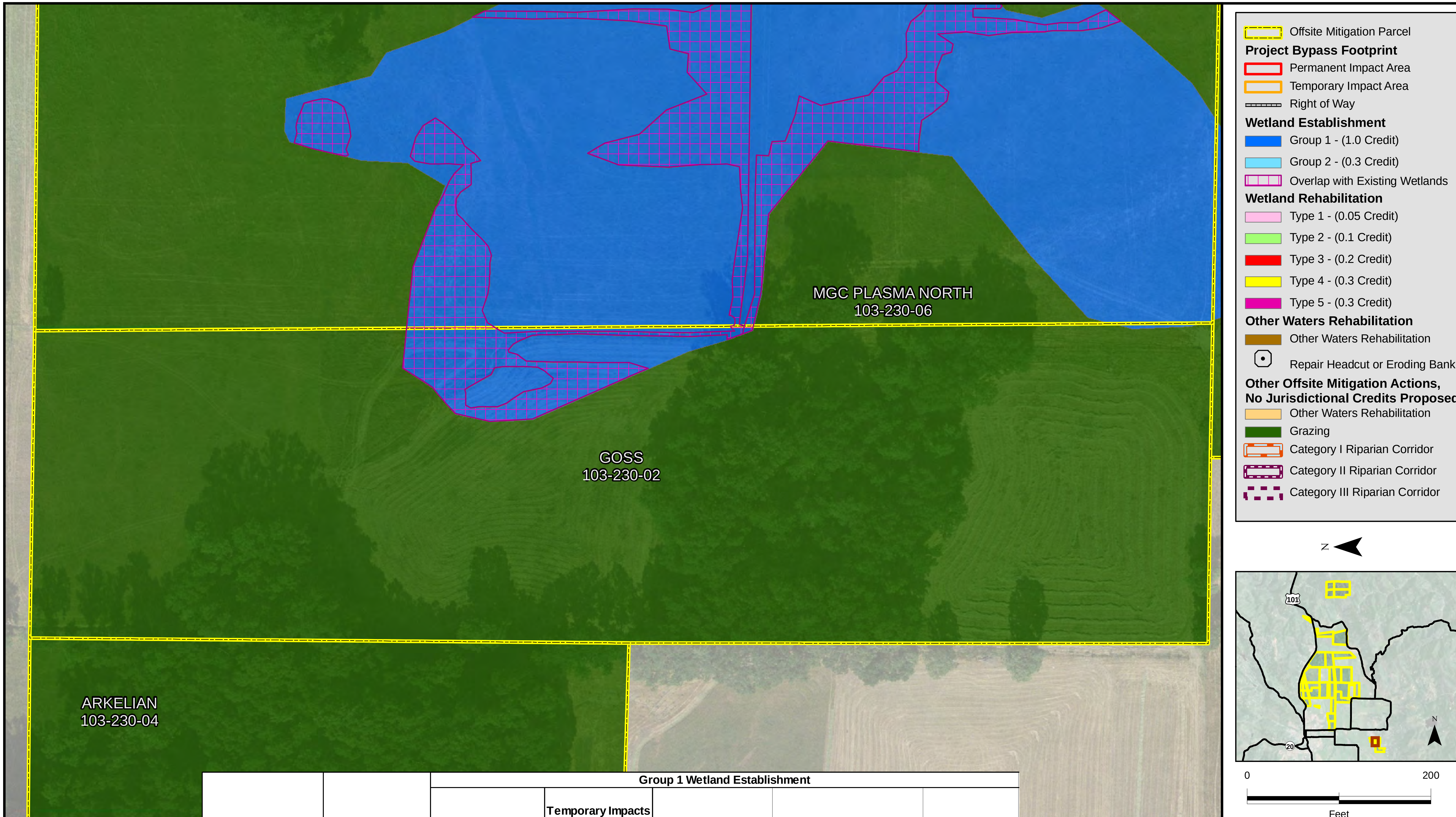
Sheet C-26
Mitigation Actions
Frost
APN 108-070-04

Willits Bypass
Wetland Establishment and Rehabilitation,
and Other Waters Rehabilitation



Sheet C-27
Jurisdictional Wetlands
Goss
APN 103-230-02

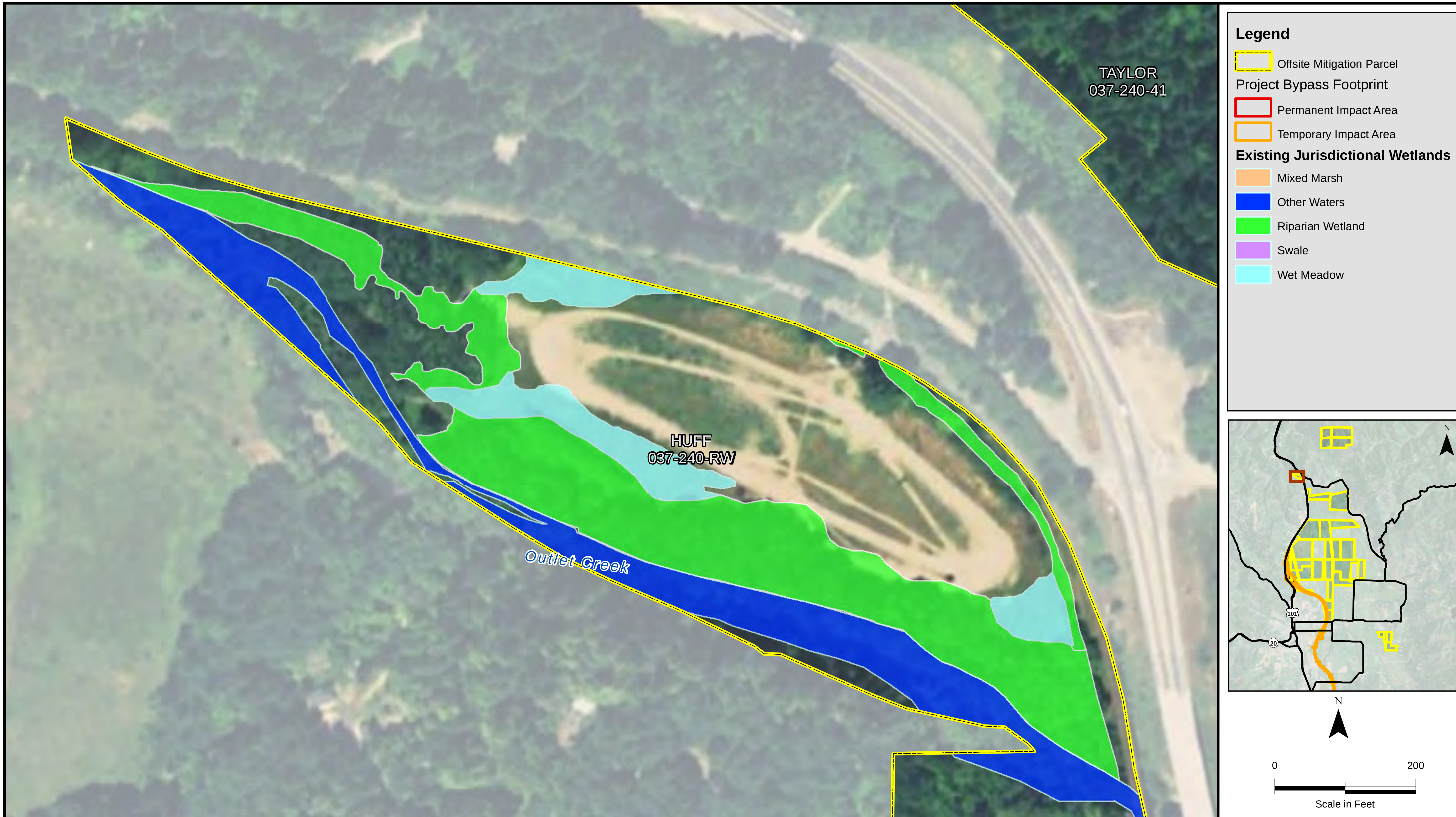
Willits Bypass
Sensitive Biological Resources
on Mitigation Parcels



Parcel	APN	Group 1 Wetland Establishment				
		Total Acreage of Established Wetlands	Temporary Impacts Associated with Establishment (acres)	Acreage Available for Wetland Establishment Credit	Credit Ratio	Wetland Credit
Goss	103-230-02	0.55	0.32	0.23	1.00	0.23

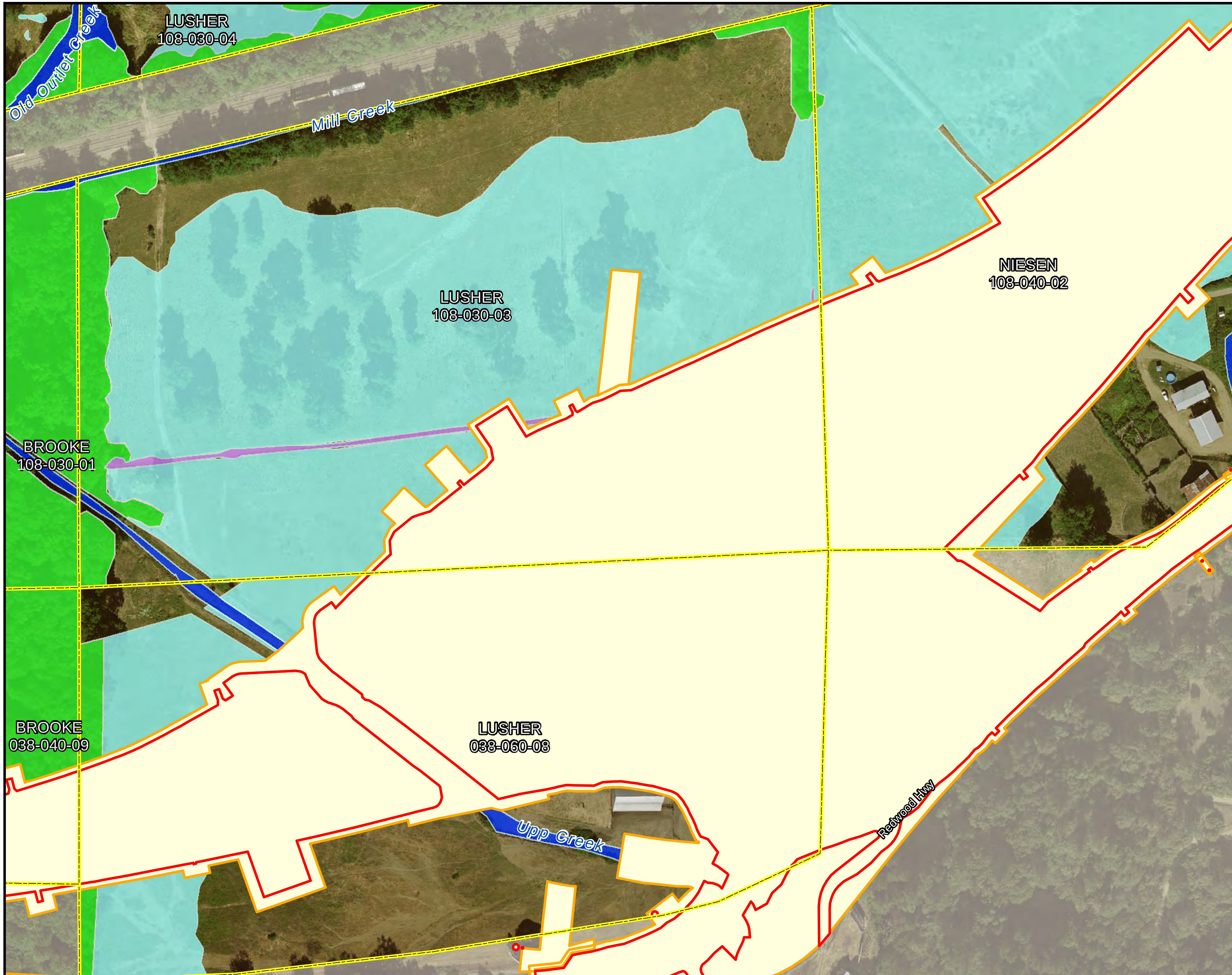
Sheet C-28
Mitigation Actions
Goss
APN 103-230-02

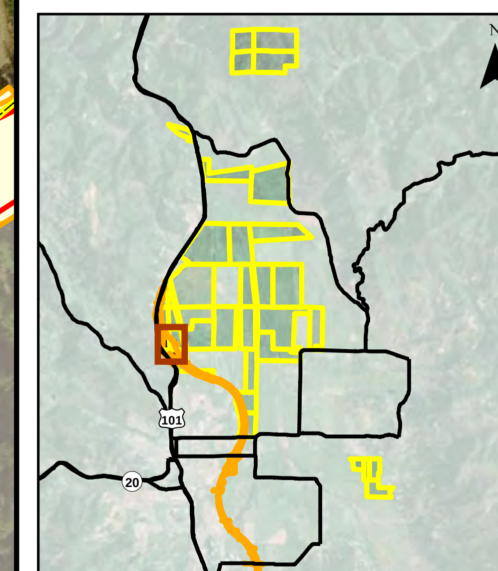
Willits Bypass
Wetland Establishment and Rehabilitation, and Other Waters Rehabilitation



Sheet C-29
Jurisdictional Wetlands
Huff
APN 037-240-RW

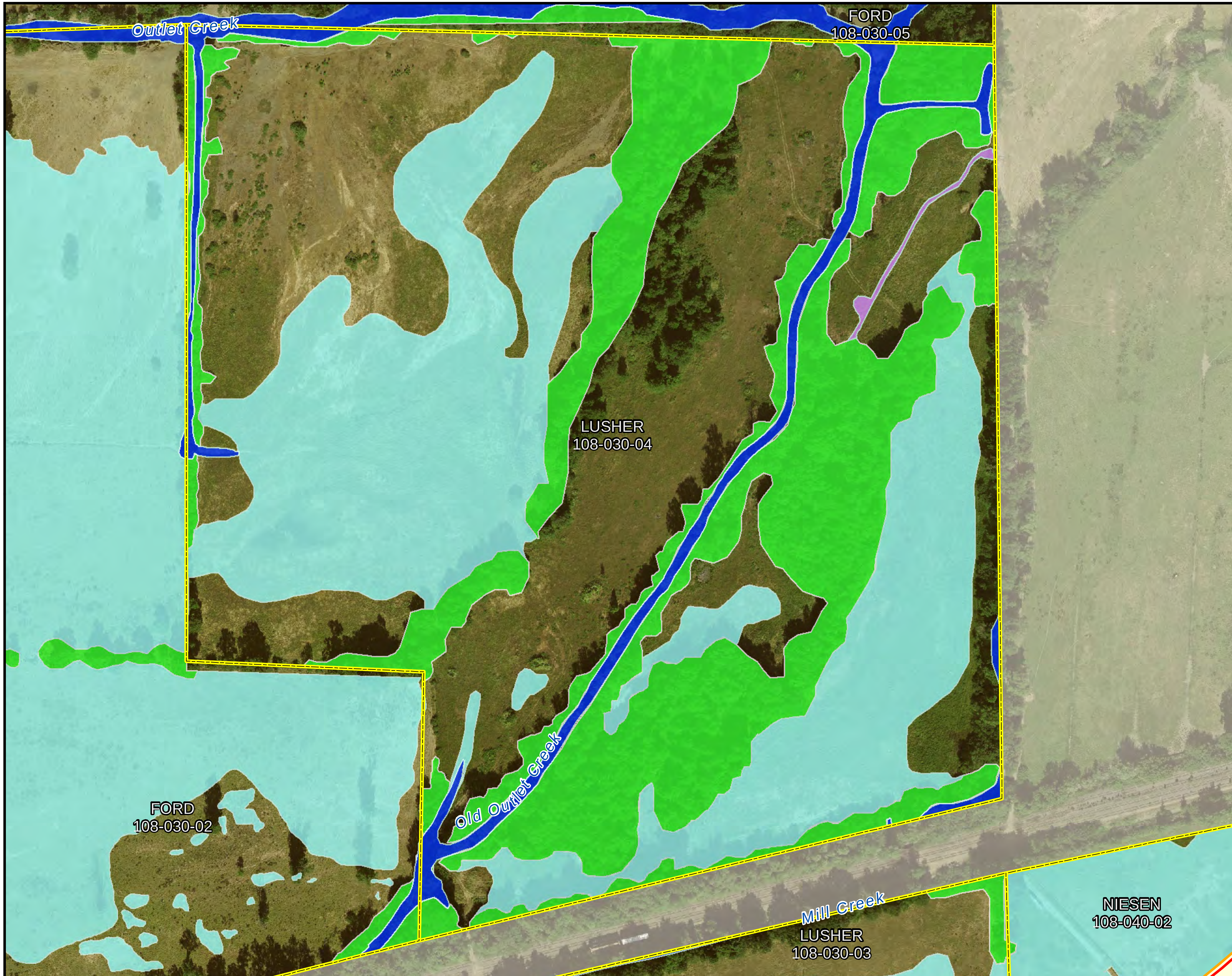
Willits Bypass
Sensitive Biological Resources
on Mitigation Parcels





Sheet C-30
Jurisdictional Wetlands
Lusher
APNs 108-030-03 & 038-060-08

Willits Bypass
Sensitive Biological Resources
on Mitigation Parcels



Legend

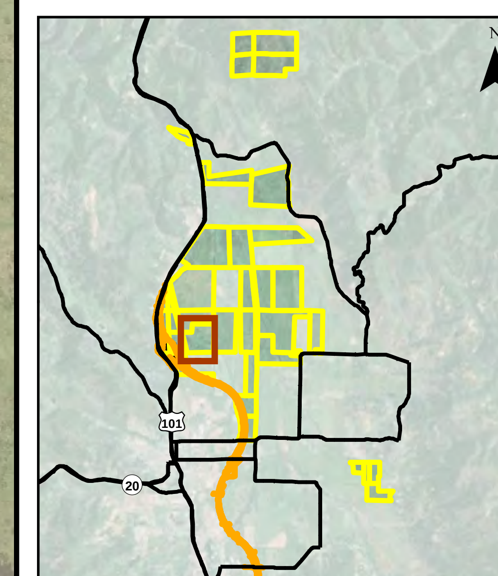
- Offsite Mitigation Parcel

Project Bypass Footprint

- Permanent Impact Area
- Temporary Impact Area

Existing Jurisdictional Wetlands

- Mixed Marsh
- Other Waters
- Riparian Wetland
- Swale
- Wet Meadow



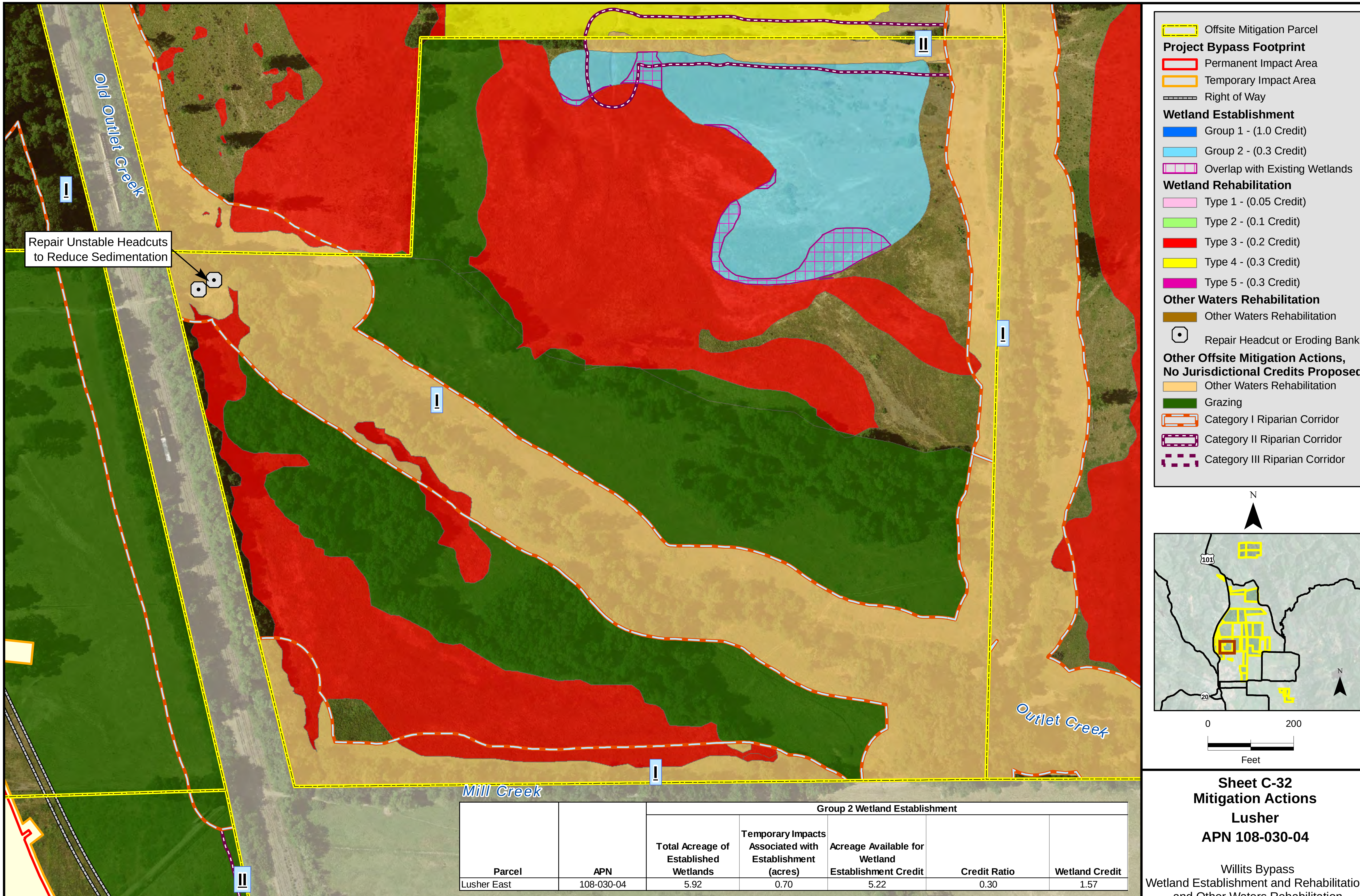
N

0 200

Scale in Feet

Sheet C-31
Jurisdictional Wetlands
Lusher
APN 108-030-04

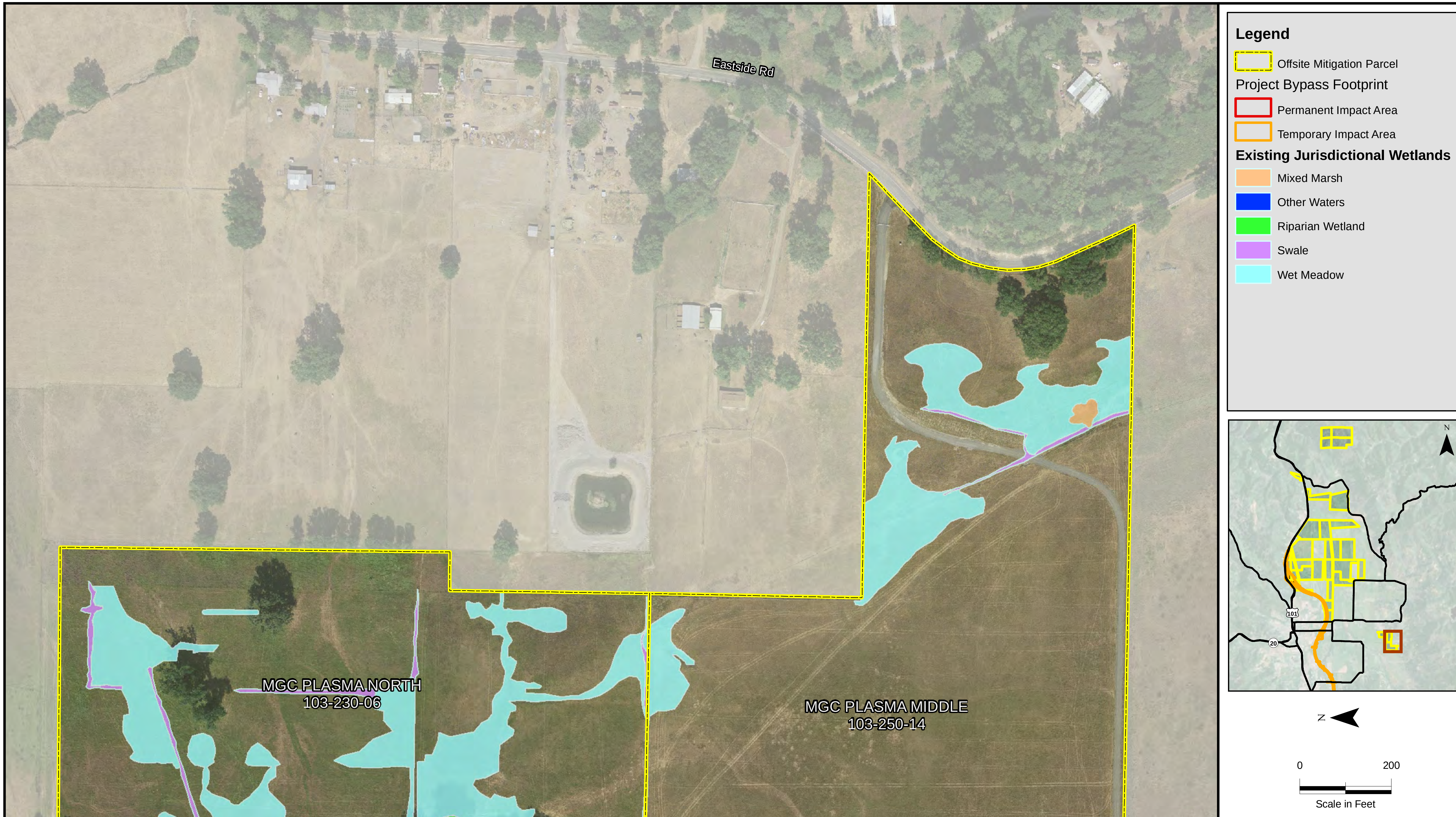
Willits Bypass
Sensitive Biological Resources
on Mitigation Parcels



Parcel	APN	Group 2 Wetland Establishment				
		Total Acreage of Established Wetlands	Temporary Impacts Associated with Establishment (acres)	Acreage Available for Wetland Establishment Credit	Credit Ratio	Wetland Credit
Lusher East	108-030-04	5.92	0.70	5.22	0.30	1.57

Sheet C-32
Mitigation Actions
Lusher
APN 108-030-04

Willits Bypass
Wetland Establishment and Rehabilitation, and Other Waters Rehabilitation



Legend

- Offsite Mitigation Parcel

Project Bypass Footprint

- Permanent Impact Area
- Temporary Impact Area

Existing Jurisdictional Wetlands

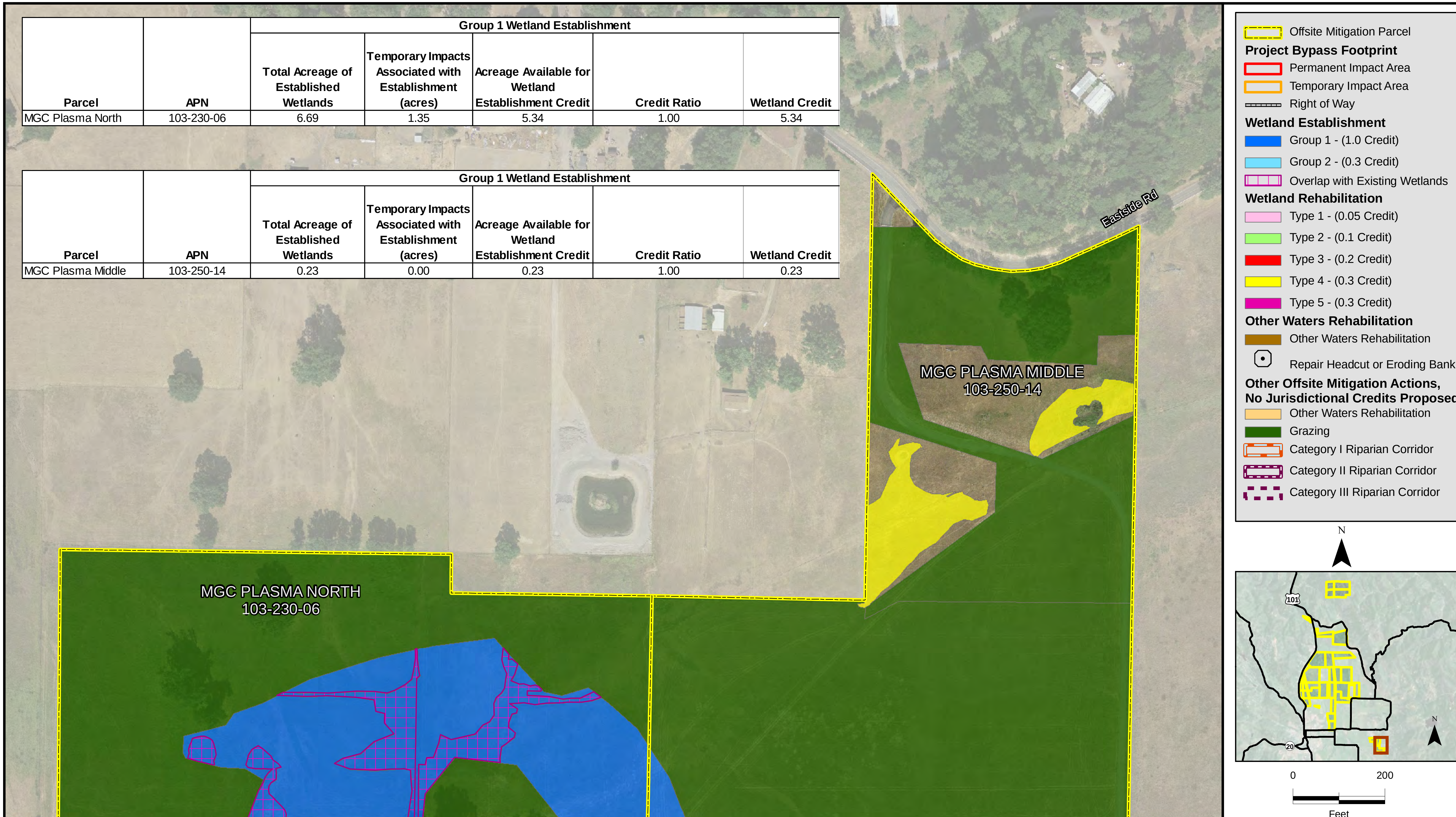
- Mixed Marsh
- Other Waters
- Riparian Wetland
- Swale
- Wet Meadow

Sheet C-33
Jurisdictional Wetlands
MGC Plasma-North & Middle
APNs 103-230-06 & 103-250-14

Willits Bypass
Sensitive Biological Resources
on Mitigation Parcels

Parcel	APN	Group 1 Wetland Establishment				
		Total Acreage of Established Wetlands	Temporary Impacts Associated with Establishment (acres)	Acreage Available for Wetland Establishment Credit	Credit Ratio	Wetland Credit
MGC Plasma North	103-230-06	6.69	1.35	5.34	1.00	5.34

Parcel	APN	Group 1 Wetland Establishment				
		Total Acreage of Established Wetlands	Temporary Impacts Associated with Establishment (acres)	Acreage Available for Wetland Establishment Credit	Credit Ratio	Wetland Credit
MGC Plasma Middle	103-250-14	0.23	0.00	0.23	1.00	0.23



Sheet C-34
Mitigation Actions
MGC Plasma-North & Middle
APNs 103-230-06 & 103-250-14

Willits Bypass
Wetland Establishment and Rehabilitation, and Other Waters Rehabilitation

Sheet C-35
Jurisdictional Wetlands
Nance
APN 108-050-06

Willits Bypass
Sensitive Biological Resources on Mitigation Parcels

Offsite Mitigation Parcel

Project Bypass Footprint

- Permanent Impact Area
- Temporary Impact Area
- Right of Way

Wetland Establishment

- Group 1 - (1.0 Credit)
- Group 2 - (0.3 Credit)
- Overlap with Existing Wetlands

Wetland Rehabilitation

- Type 1 - (0.05 Credit)
- Type 2 - (0.1 Credit)
- Type 3 - (0.2 Credit)
- Type 4 - (0.3 Credit)
- Type 5 - (0.3 Credit)

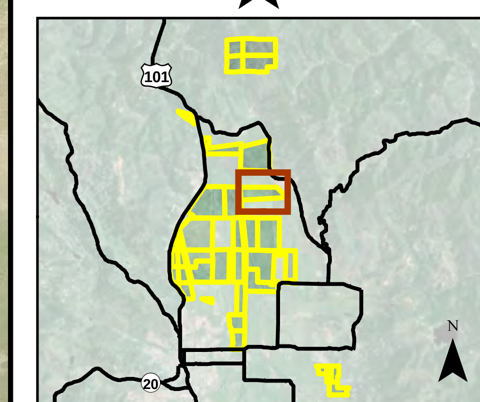
Other Waters Rehabilitation

- Other Waters Rehabilitation
- Repair Headcut or Eroding Bank

Other Offsite Mitigation Actions, No Jurisdictional Credits Proposed

- Other Waters Rehabilitation
- Grazing
- Category I Riparian Corridor
- Category II Riparian Corridor
- Category III Riparian Corridor

N



0 200

Feet

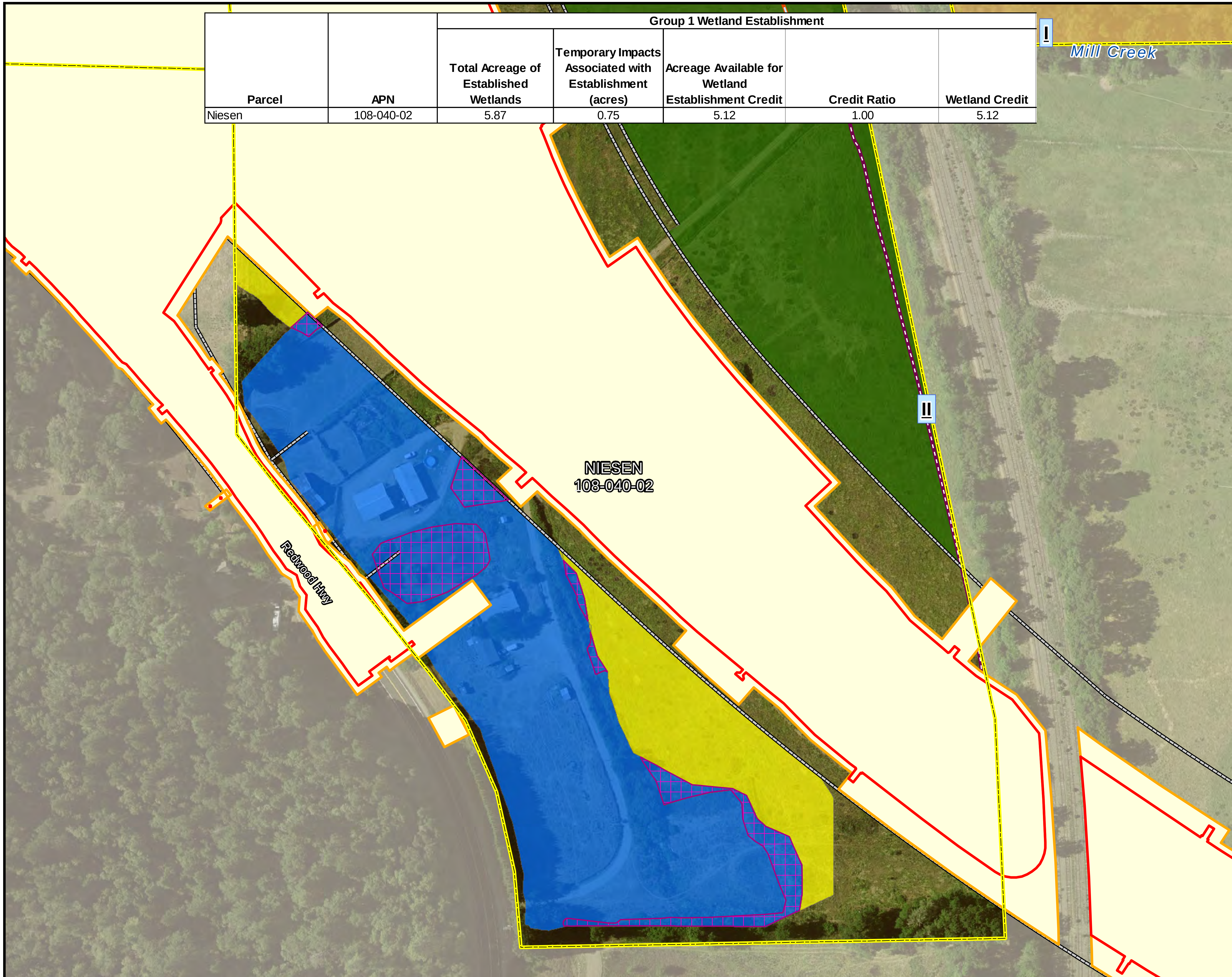
Sheet C-36
Mitigation Actions
Nance
APN 108-050-06

Willits Bypass
Wetland Establishment and Rehabilitation,
and Other Waters Rehabilitation

Sheet C-37
Jurisdictional Wetlands
Niesen
APN 108-040-02

Willits Bypass
Sensitive Biological Resources on Mitigation Parcels

Parcel	APN	Group 1 Wetland Establishment Total Acreage of Established Wetlands	Temporary Impacts Associated with Establishment (acres)	Acreage Available for Wetland Establishment Credit	Credit Ratio	Wetland Credit
Niesen	108-040-02	5.87	0.75	5.12	1.00	5.12



Offsite Mitigation Parcel

Project Bypass Footprint

- Permanent Impact Area
- Temporary Impact Area
- Right of Way

Wetland Establishment

- Group 1 - (1.0 Credit)
- Group 2 - (0.3 Credit)
- Overlap with Existing Wetlands

Wetland Rehabilitation

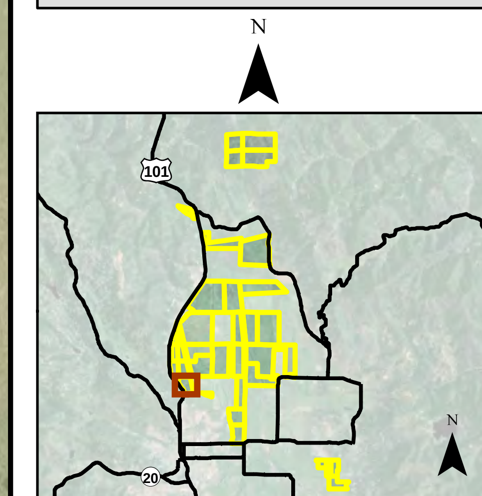
- Type 1 - (0.05 Credit)
- Type 2 - (0.1 Credit)
- Type 3 - (0.2 Credit)
- Type 4 - (0.3 Credit)
- Type 5 - (0.3 Credit)

Other Waters Rehabilitation

- Other Waters Rehabilitation
- Repair Headcut or Eroding Bank

Other Offsite Mitigation Actions, No Jurisdictional Credits Proposed

- Other Waters Rehabilitation
- Grazing
- Category I Riparian Corridor
- Category II Riparian Corridor
- Category III Riparian Corridor

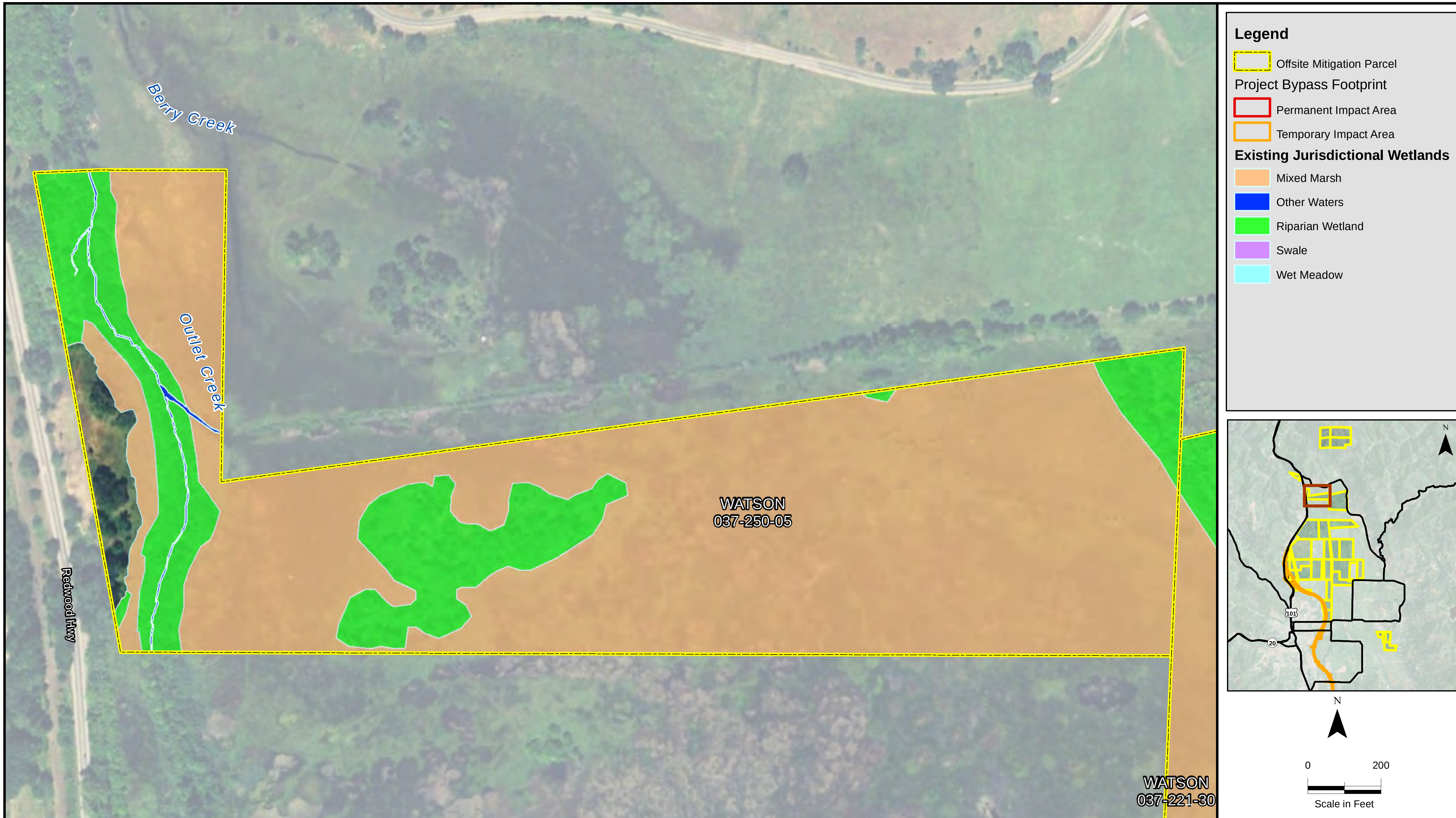


0 200

Feet

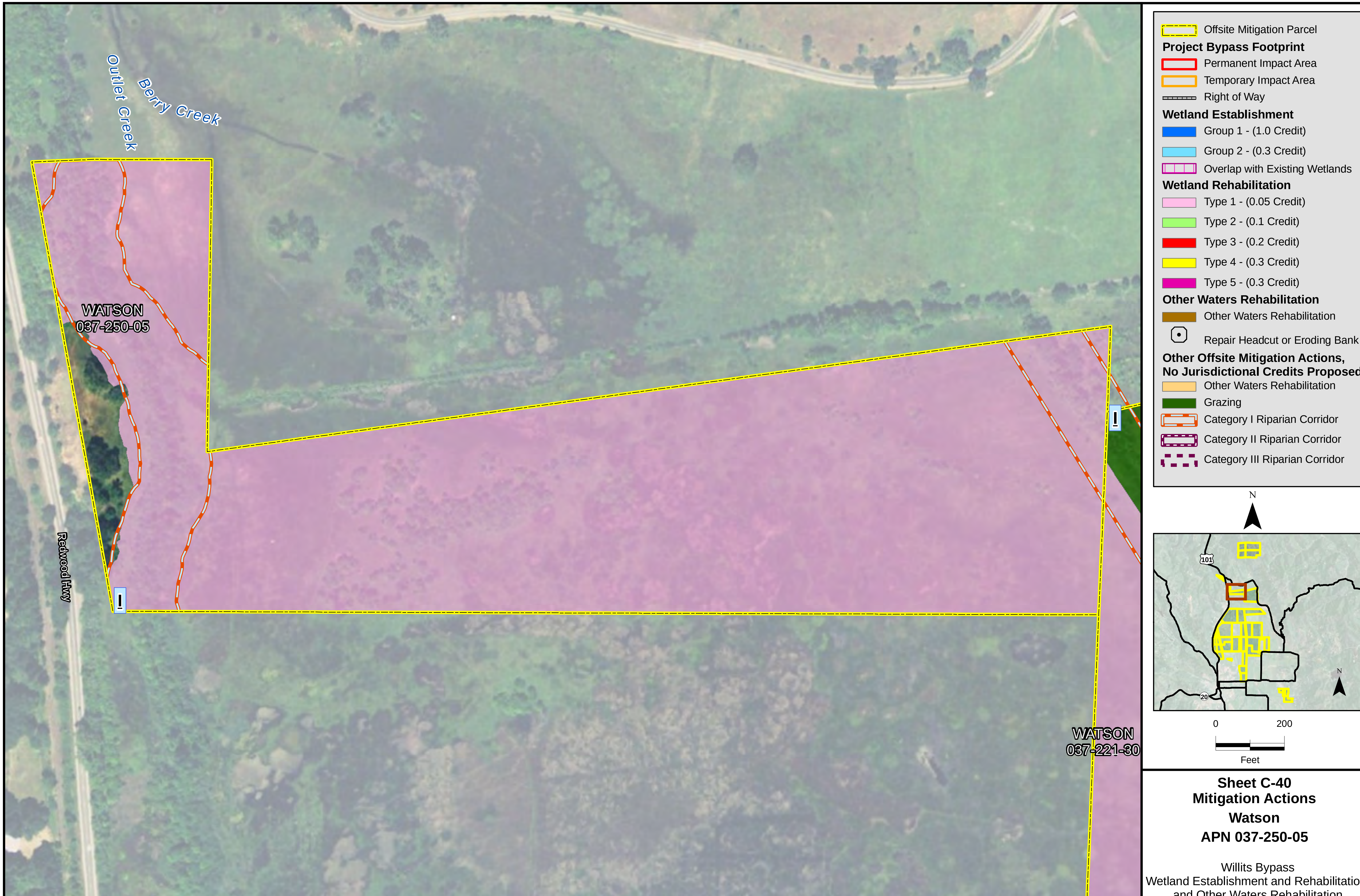
Sheet C-38
Mitigation Actions
Niesen
APN 108-040-02

Willits Bypass
Wetland Establishment and Rehabilitation, and Other Waters Rehabilitation



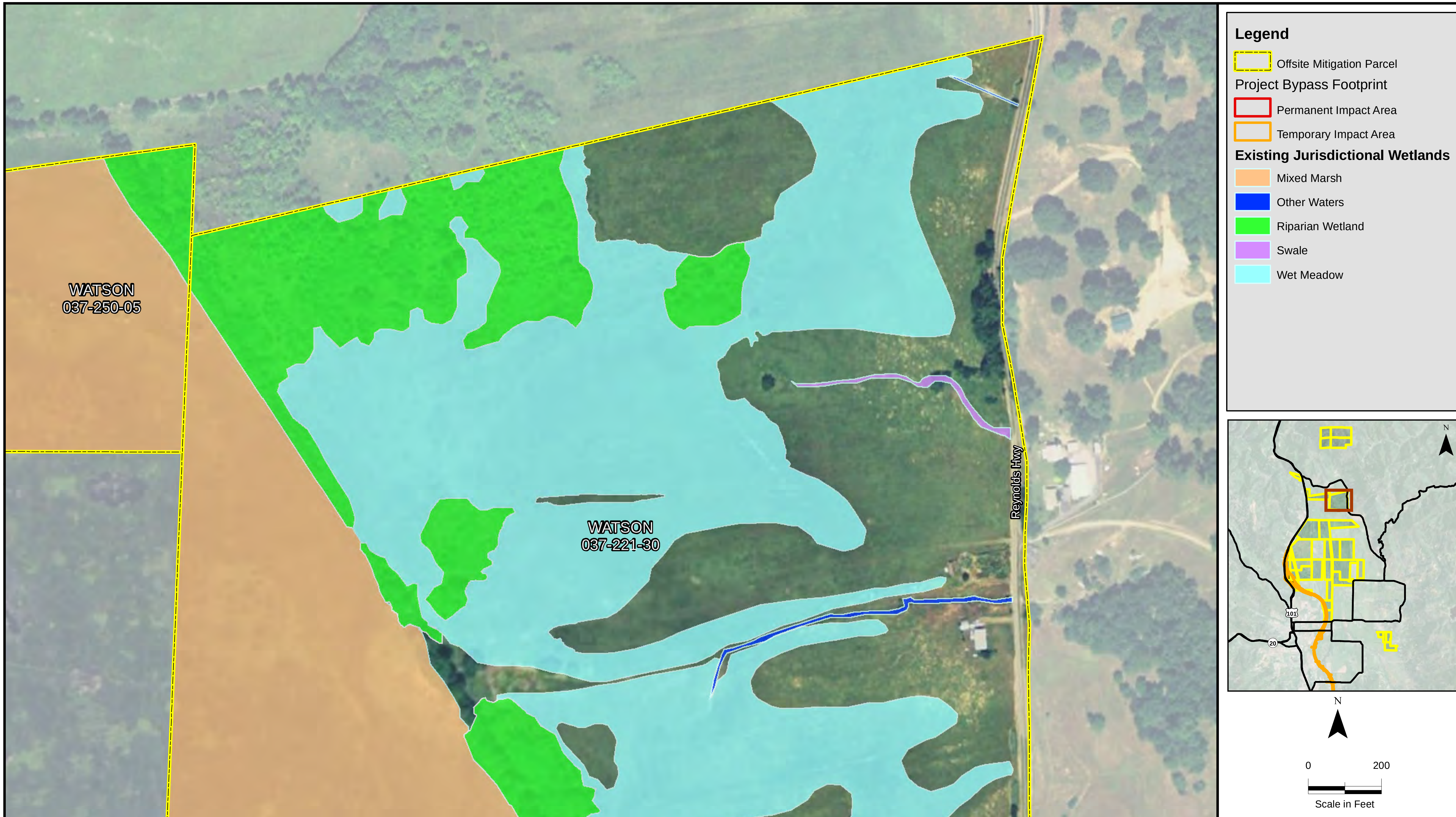
Sheet C-39
Jurisdictional Wetlands
Watson
APN 037-250-05

Willits Bypass
Sensitive Biological Resources
on Mitigation Parcels



Sheet C-40
Mitigation Actions
Watson
APN 037-250-05

Willits Bypass
Wetland Establishment and Rehabilitation,
and Other Waters Rehabilitation

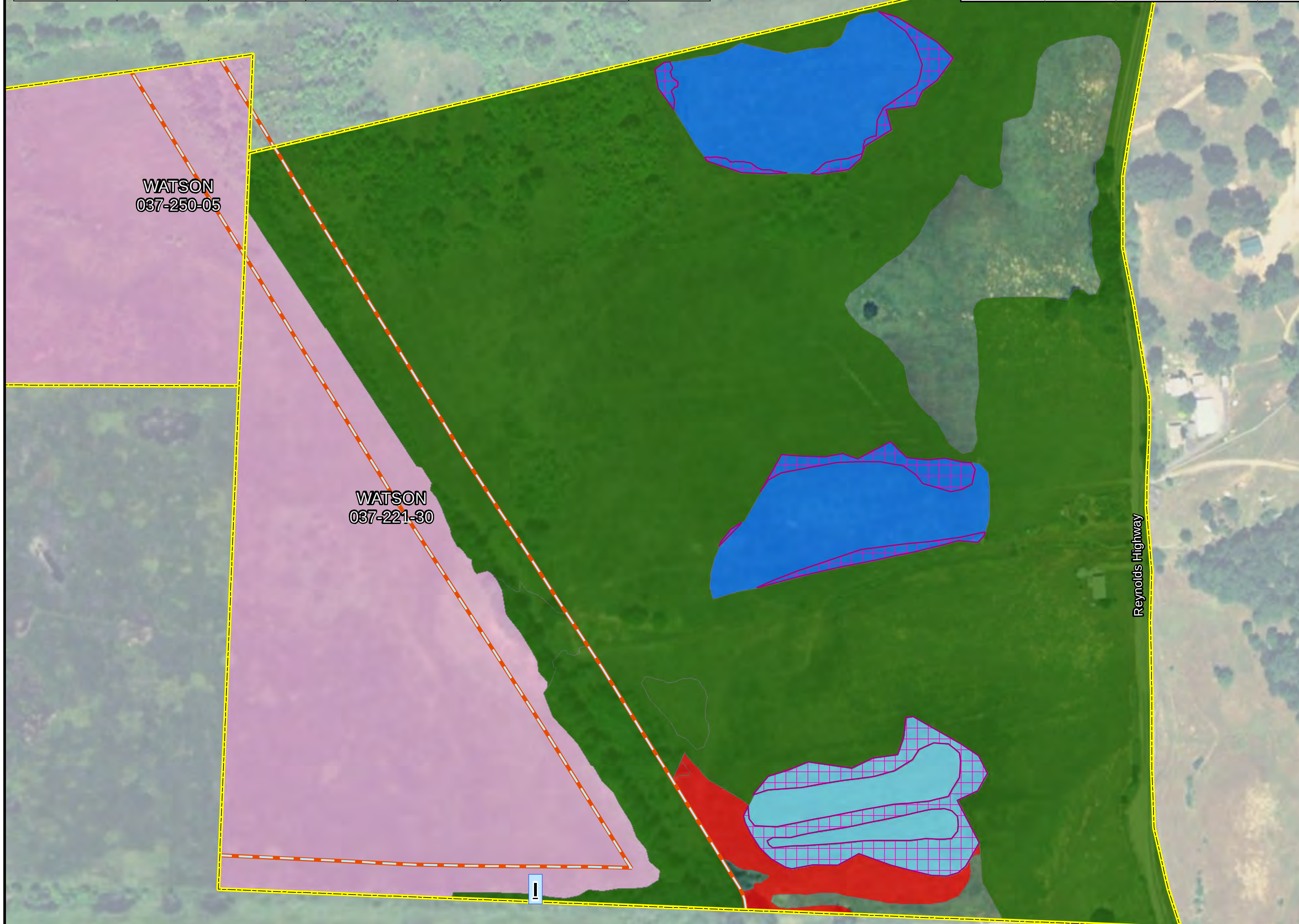


Sheet C-41
Jurisdictional Wetlands
Watson
APN 037-221-30

Willits Bypass
Sensitive Biological Resources
on Mitigation Parcels

Parcel	APN	Group 1 Wetland Establishment: Total Acreage of Established Wetlands	Temporary Impacts Associated with Establishment (acres)	Acreage Available for Wetland Establishment Credit	Credit Ratio	Wetland Credit
Watson East	037-221-30	8.34	1.31	7.03	1.00	7.03

Group 2 Wetland Establishment: Total Acreage of Established Wetlands	Temporary Impacts Associated with Establishment	Acreage Available for Wetland Establishment Credit	Credit Ratio	Wetland Credit
3.61	1.92	1.69	0.30	0.51



Offsite Mitigation Parcel

Project Bypass Footprint

Permanent Impact Area

Temporary Impact Area

Right of Way

Wetland Establishment

Group 1 - (1.0 Credit)

Group 2 - (0.3 Credit)

Overlap with Existing Wetlands

Wetland Rehabilitation

Type 1 - (0.05 Credit)

Type 2 - (0.1 Credit)

Type 3 - (0.2 Credit)

Type 4 - (0.3 Credit)

Type 5 - (0.3 Credit)

Other Waters Rehabilitation

Other Waters Rehabilitation

Repair Headcut or Eroding Bank

Other Offsite Mitigation Actions, No Jurisdictional Credits Proposed

Other Waters Rehabilitation

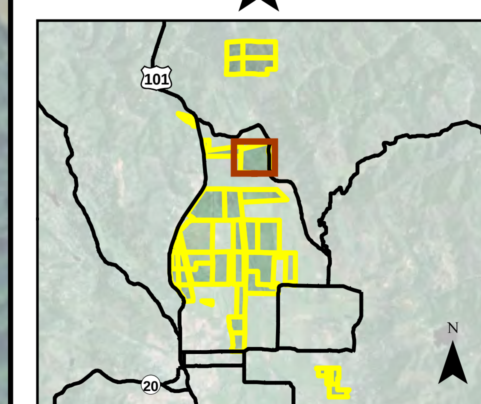
Grazing

Category I Riparian Corridor

Category II Riparian Corridor

Category III Riparian Corridor

N



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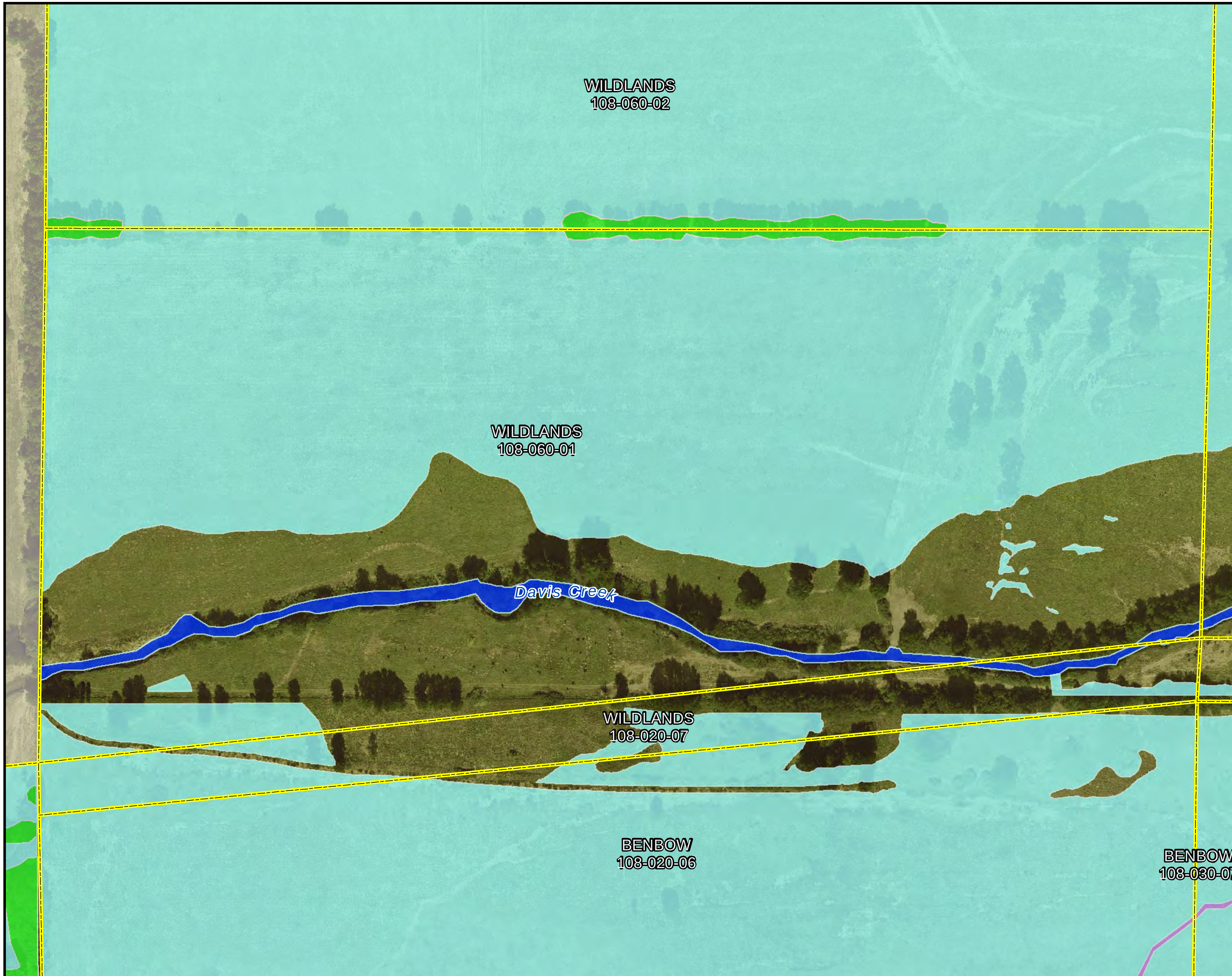
Feet

Sheet C-42
Mitigation Actions
Watson
APN 037-221-30

Willits Bypass
Wetland Establishment and Rehabilitation,
and Other Waters Rehabilitation



Legend

Offsite Mitigation Parcel

Project Bypass Footprint

Permanent Impact Area

Temporary Impact Area

Existing Jurisdictional Wetlands

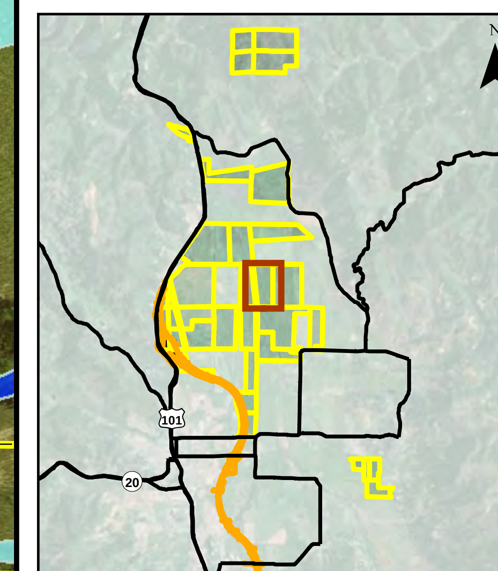
Mixed Marsh

Other Waters

Riparian Wetland

Swale

Wet Meadow



N

0 200

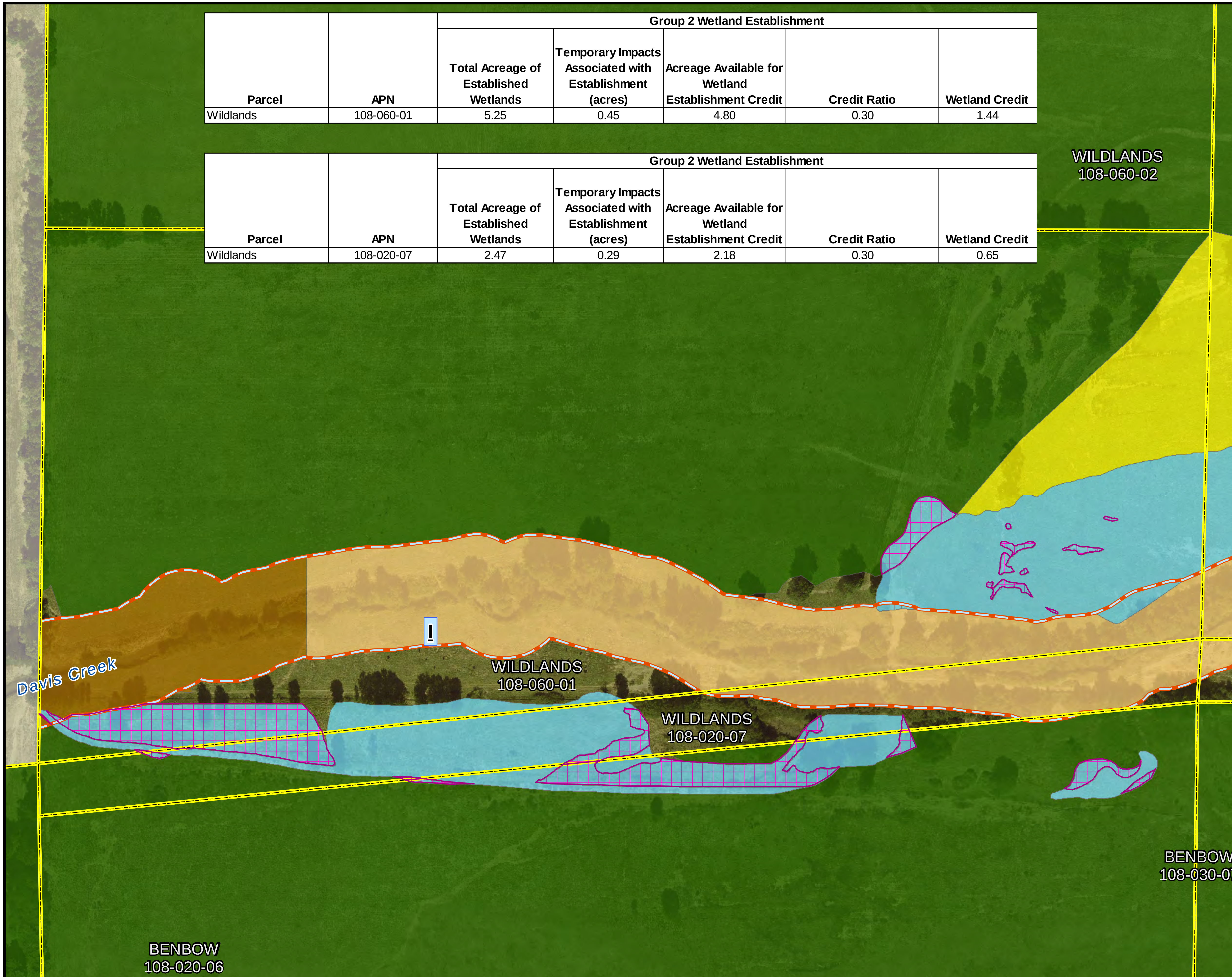
Scale in Feet

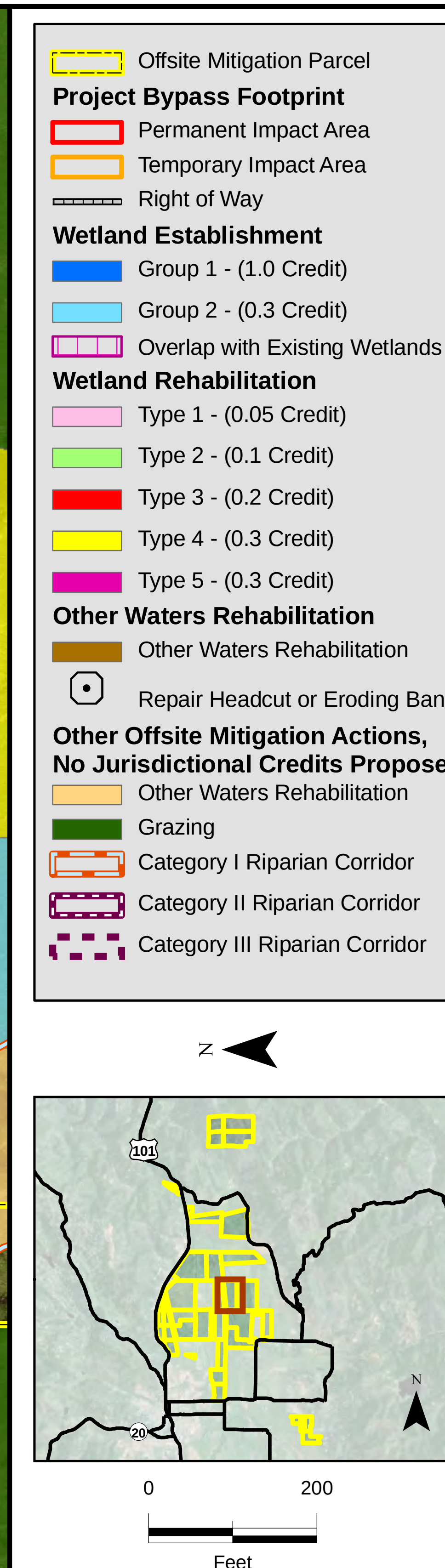
Sheet C-43
Jurisdictional Wetlands
Wildlands
APNs 108-060-01 & 108-020-07

Willits Bypass
Sensitive Biological Resources
on Mitigation Parcels

Parcel	APN	Group 2 Wetland Establishment				
		Total Acreage of Established Wetlands	Temporary Impacts Associated with Establishment (acres)	Acreage Available for Wetland Establishment Credit	Credit Ratio	Wetland Credit
Wildlands	108-060-01	5.25	0.45	4.80	0.30	1.44

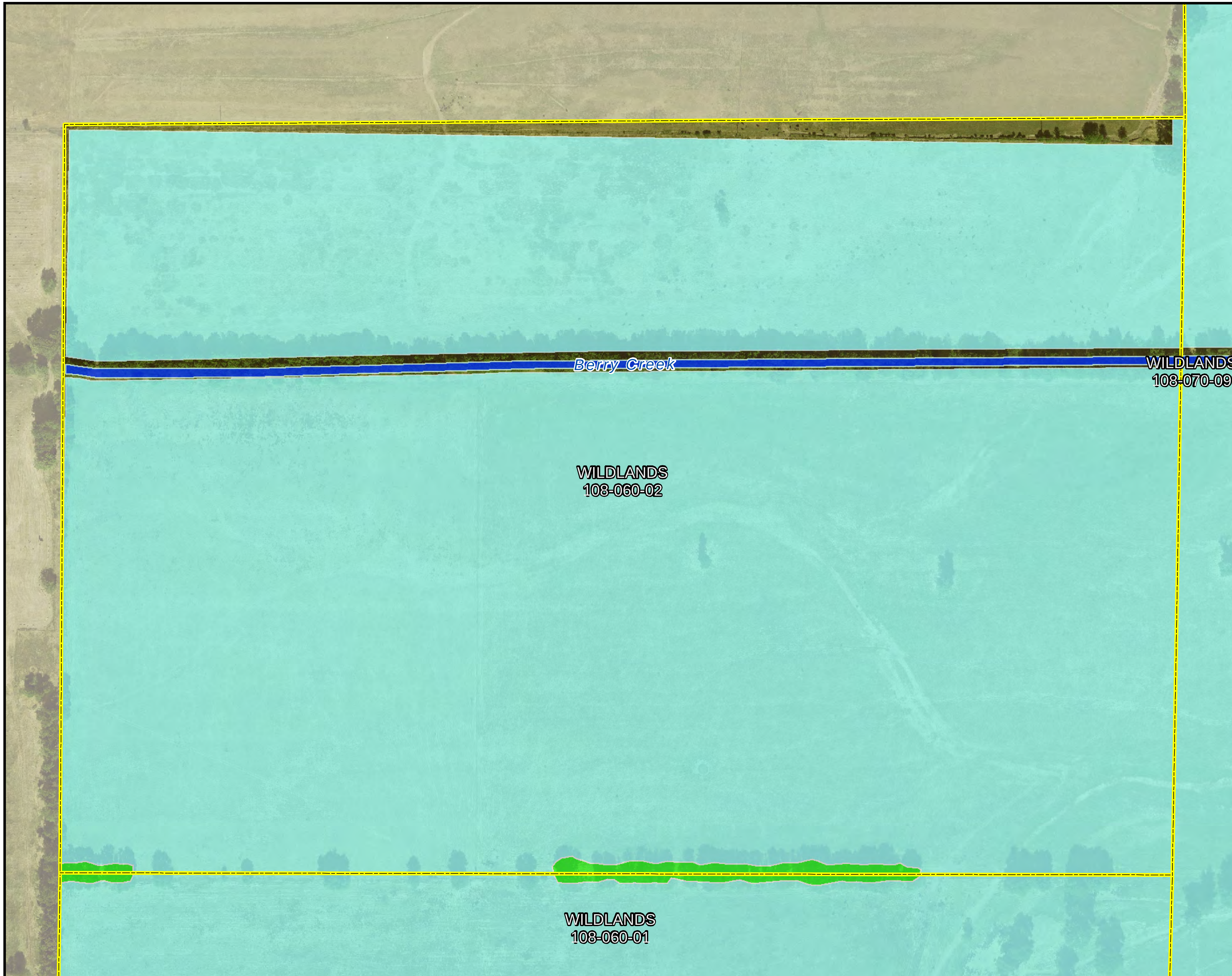
Parcel	APN	Group 2 Wetland Establishment				
		Total Acreage of Established Wetlands	Temporary Impacts Associated with Establishment (acres)	Acreage Available for Wetland Establishment Credit	Credit Ratio	Wetland Credit
Wildlands	108-020-07	2.47	0.29	2.18	0.30	0.65





Sheet C-44
Mitigation Actions
Wildlands
APNs 108-060-01 & 108-020-07

Willits Bypass
Wetland Establishment and Rehabilitation, and Other Waters Rehabilitation



Legend

Offsite Mitigation Parcel

Project Bypass Footprint

Permanent Impact Area

Temporary Impact Area

Existing Jurisdictional Wetlands

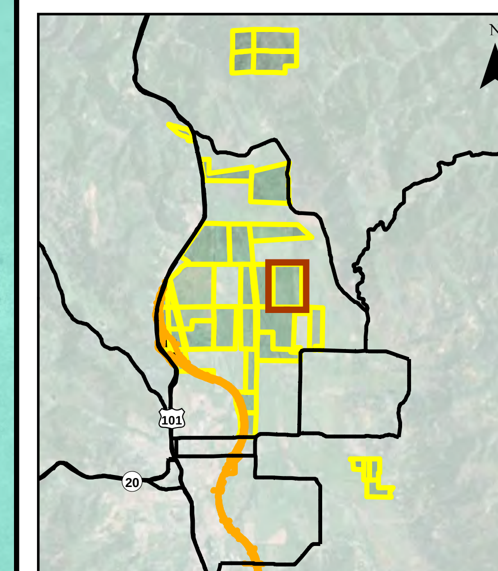
Mixed Marsh

Other Waters

Riparian Wetland

Swale

Wet Meadow



N

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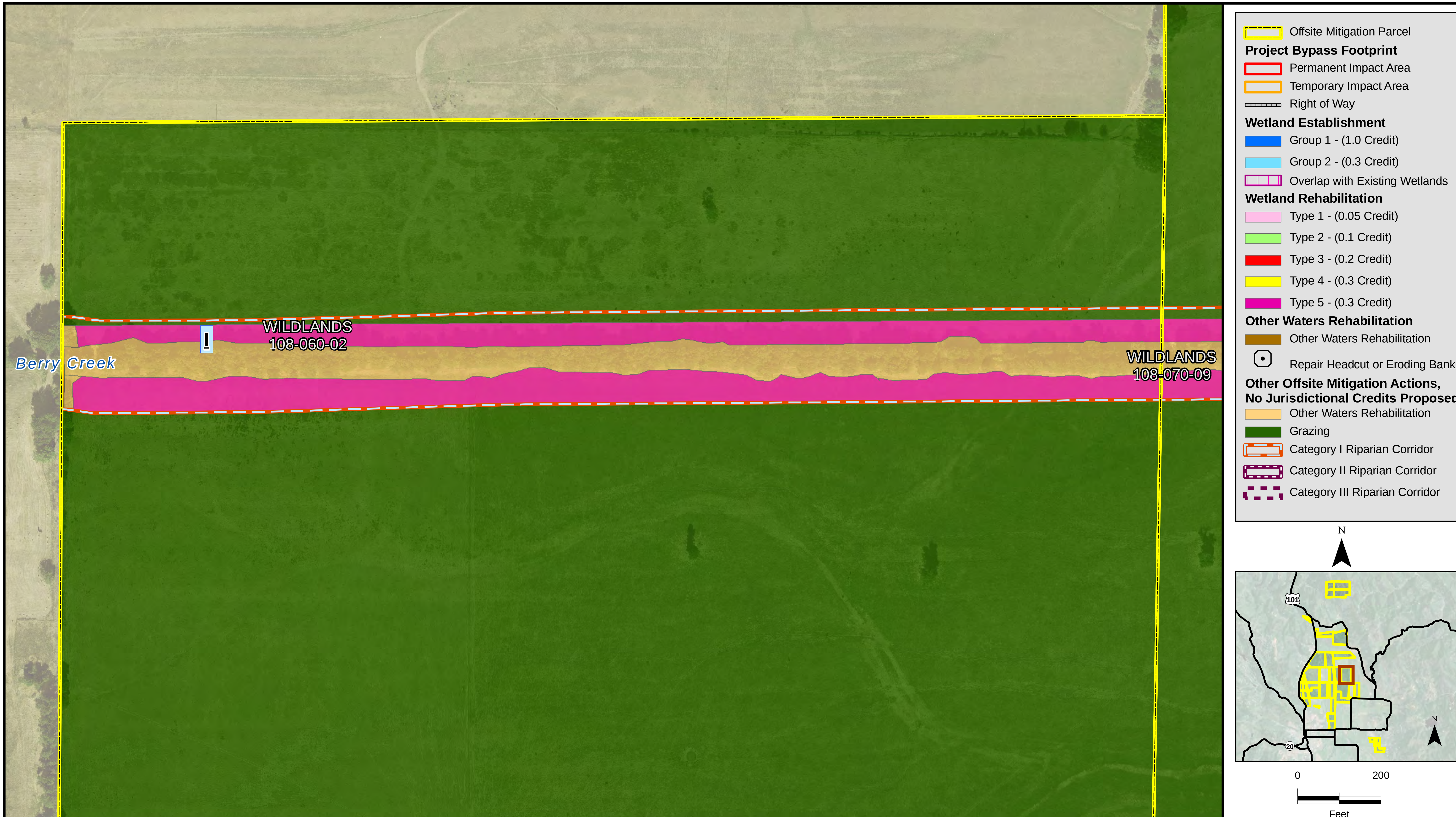
Scale in Feet

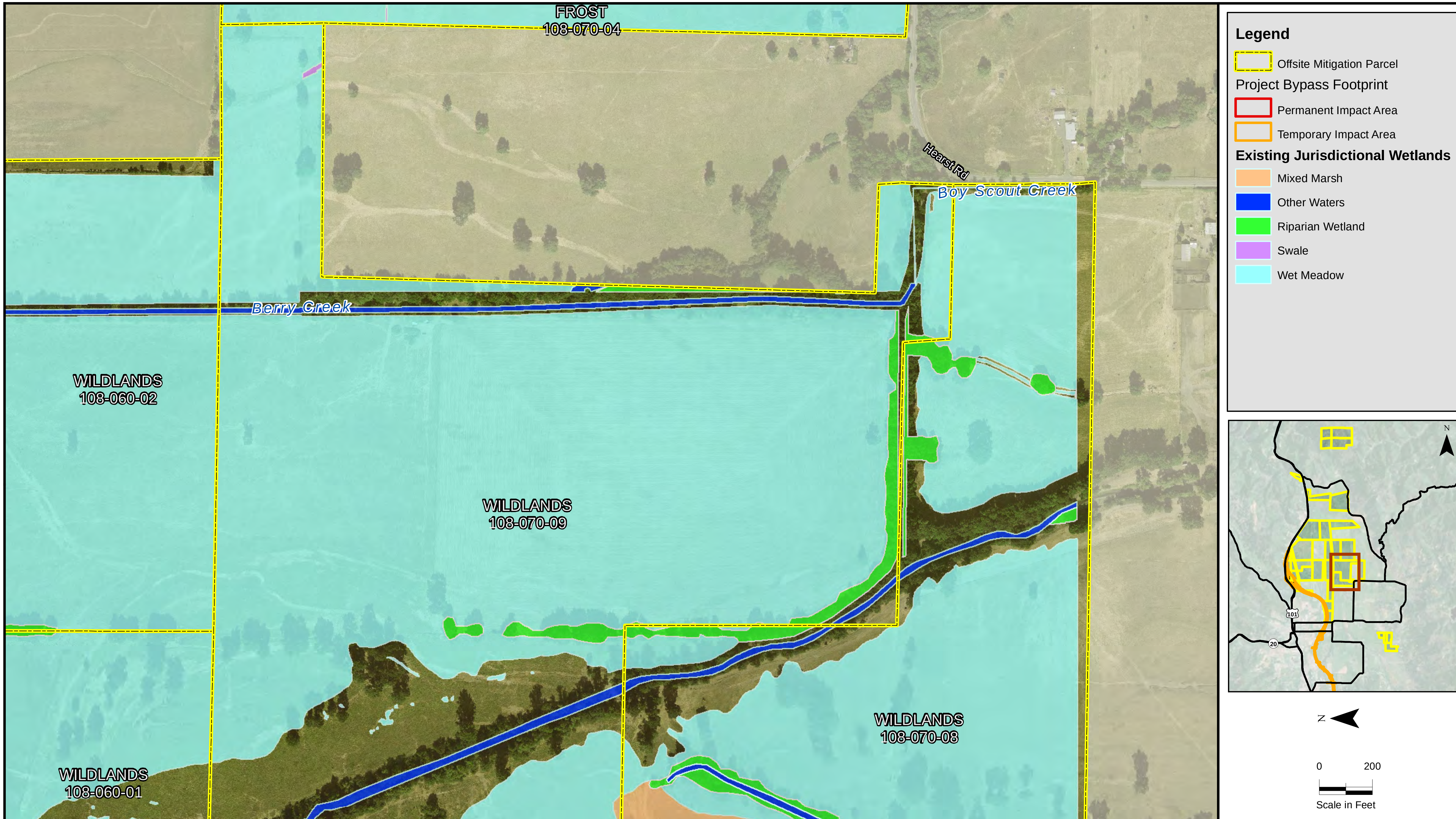
Sheet C-45
Jurisdictional Wetlands
Wildlands
APN 108-060-02

Willits Bypass
Sensitive Biological Resources
on Mitigation Parcels



Sheet C-46
Mitigation Actions
Wildlands
APN 108-060-02

Willits Bypass
Wetland Establishment and Rehabilitation,
and Other Waters Rehabilitation



Sheet C-47
Jurisdictional Wetlands
Wildlands
APNs 108-030-08, 108-070-08, & 108-070-09
Willits Bypass
Sensitive Biological Resources on Mitigation Parcels

Parcel	APN	Group 2 Wetland Establishment				
		Total Acreage of Established Wetlands	Temporary Impacts Associated with Establishment (acres)	Acreage Available for Wetland Establishment Credit	Credit Ratio	Wetland Credit
Wildlands	108-070-09	4.34	0.07	4.27	0.30	1.28

Offsite Mitigation Parcel

Project Bypass Footprint

Permanent Impact Area

Temporary Impact Area

Right of Way

Wetland Establishment

Group 1 - (1.0 Credit)

Group 2 - (0.3 Credit)

Overlap with Existing Wetlands

Wetland Rehabilitation

Type 1 - (0.05 Credit)

Type 2 - (0.1 Credit)

Type 3 - (0.2 Credit)

Type 4 - (0.3 Credit)

Type 5 - (0.3 Credit)

Other Waters Rehabilitation

Other Waters Rehabilitation

Repair Headcut or Eroding Bank

Other Offsite Mitigation Actions, No Jurisdictional Credits Proposed

Other Waters Rehabilitation

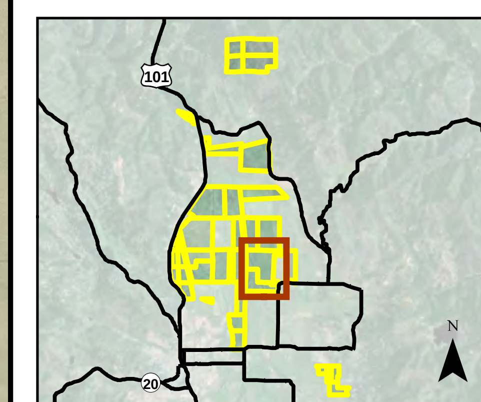
Grazing

Category I Riparian Corridor

Category II Riparian Corridor

Category III Riparian Corridor

N



0 200

Feet

Sheet C-48
Mitigation Actions
Wildlands
APNs 108-030-08, 108-070-08, & 108-070-09

Willits Bypass
Wetland Establishment and Rehabilitation, and Other Waters Rehabilitation

Appendix D
Design Plans for Onsite Wetland and Riparian Re-establishment

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
01	MEN	101	R69.4/78.9		

INDEX OF SHEETS

SHEET #	SHEET NAME
	ONSITE PARCELS
D-1 - D-32	PLANTING PLANS
D-33	PLANTING PROGRAM & DETAILS

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

PROJECT PLANS FOR CONSTRUCTION ON
STATE HIGHWAY

IN MENDOCINO COUNTY IN AND NEAR WILLITS FROM 1.3 km SOUTH OF HAEHL OVERHEAD TO 2.9 km SOUTH OF REYNOLDS HIGHWAY

To be supplemented by Standard Plans dated July, 2006.

PLANTING PLANS FOR ONSITE WETLAND AND RIPARIAN MITIGATION JANUARY 2012

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

Project Engineer Date
Registered Civil Engineer

REGISTERED PROFESSIONAL ENGINEER No. Exp. STATE OF CALIFORNIA

Plans Approval Date

The Contractor shall possess the Class (or classes) of license as specified in the ''Notice to Contractors''.

Contract No.

PROJECT ENGINEER Bradley N. Miller DATE
PROJECT MANAGER David G. Kelley DATE

LAST REVISION 00-00-00 DATE PLOTTED => 05-JAN-2012 TIME PLOTTED => 10:19

FORM DC-OE-93-PF (REV. 3/88)

FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS 0 20 40 60 80

USERNAME => 19937
DGN FILE => 126200ab001_JS.dgn

CU 03221 EA 262001

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9		

LICENSED LANDSCAPE ARCHITECT

PLANS APPROVAL DATE

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

LICENSED LANDSCAPE ARCHITECT
Signature
Renewal Date
Date
STATE OF CALIFORNIA

Caltrans Metric

NOTES:

1. ALL TEMPORARILY IMPACTED AREAS TO BE SEEDED ACCORDING TO EROSION CONTROL PLANS UNLESS OTHERWISE NOTED.

2. SEE THE BYPASS PROJECT CONSTRUCTION PLANS FOR INFORMATION PERTAINING TO PRE-PROJECT ELEVATIONS FOR EACH TEMPORARY IMPACT AREA. PRE-PROJECT ELEVATIONS ARE SYNONYMOUS WITH PROPOSED POST PROJECT ELEVATIONS. THE BYPASS PROJECT CONSTRUCTION PLANS WILL BE PROVIDED TO USACE AS A STAND-ALONE DOCUMENT FROM THIS MMP.

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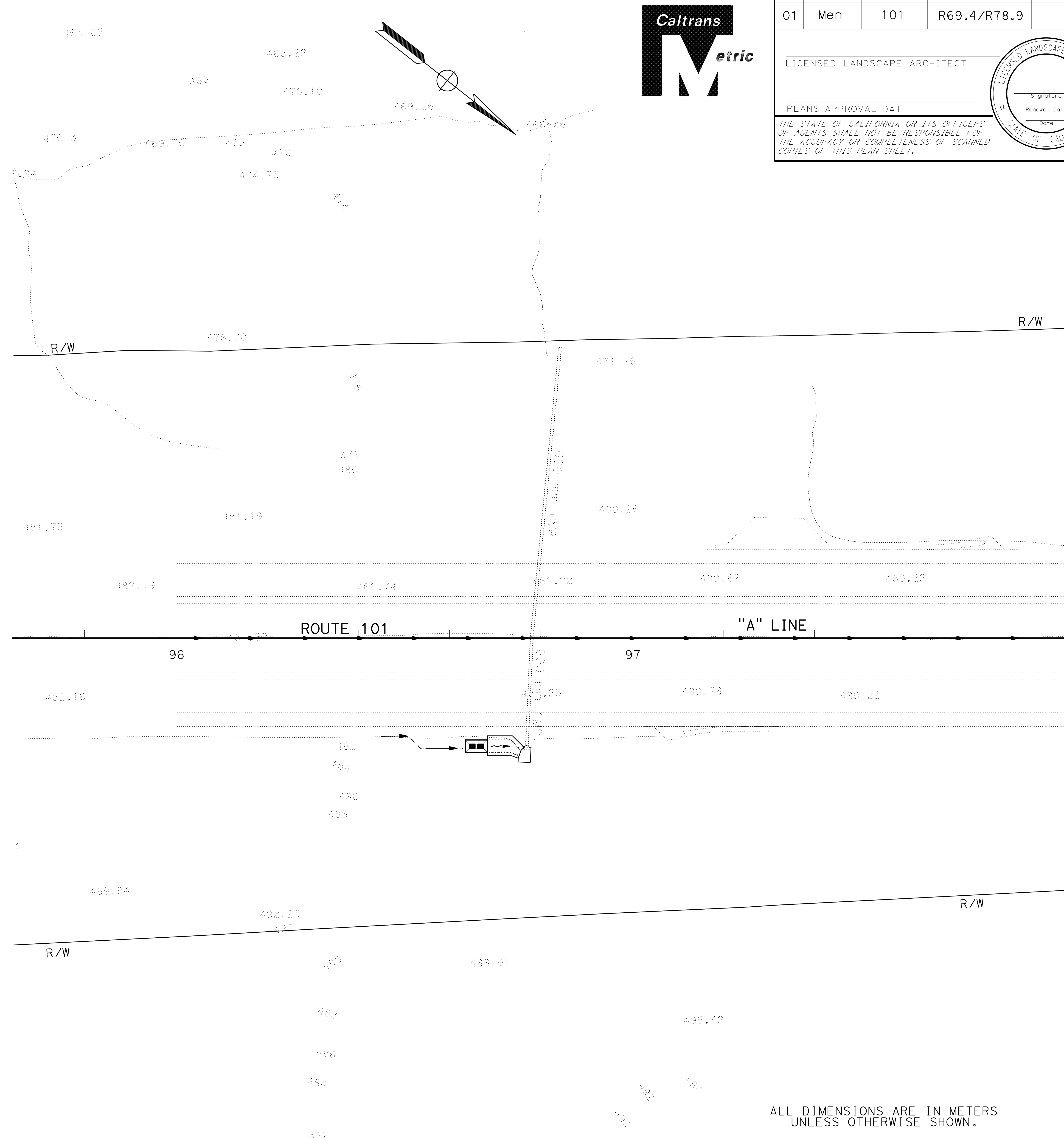

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

ONSITE PLANTING PLAN

SCALE 1:500

D-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans 03-LANDSCAPE ARCHITECTURE

SENIOR LANDSCAPE ARCHITECT: T. CHRIS JOHNSON

CALCULATED-DESIGNED BY: JEFFREY PIETRZAK

CHECKED BY

REVISED BY

DATE REVISED

LAST REVISION 00-00-00

DATE PLOTTED => 03-JAN-2012
TIME PLOTTED => 10:18

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9		

LICENSED LANDSCAPE ARCHITECT

PLANS APPROVAL DATE

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Signature
Renewal Date
Date
STATE OF CALIFORNIA

Caltrans Metric

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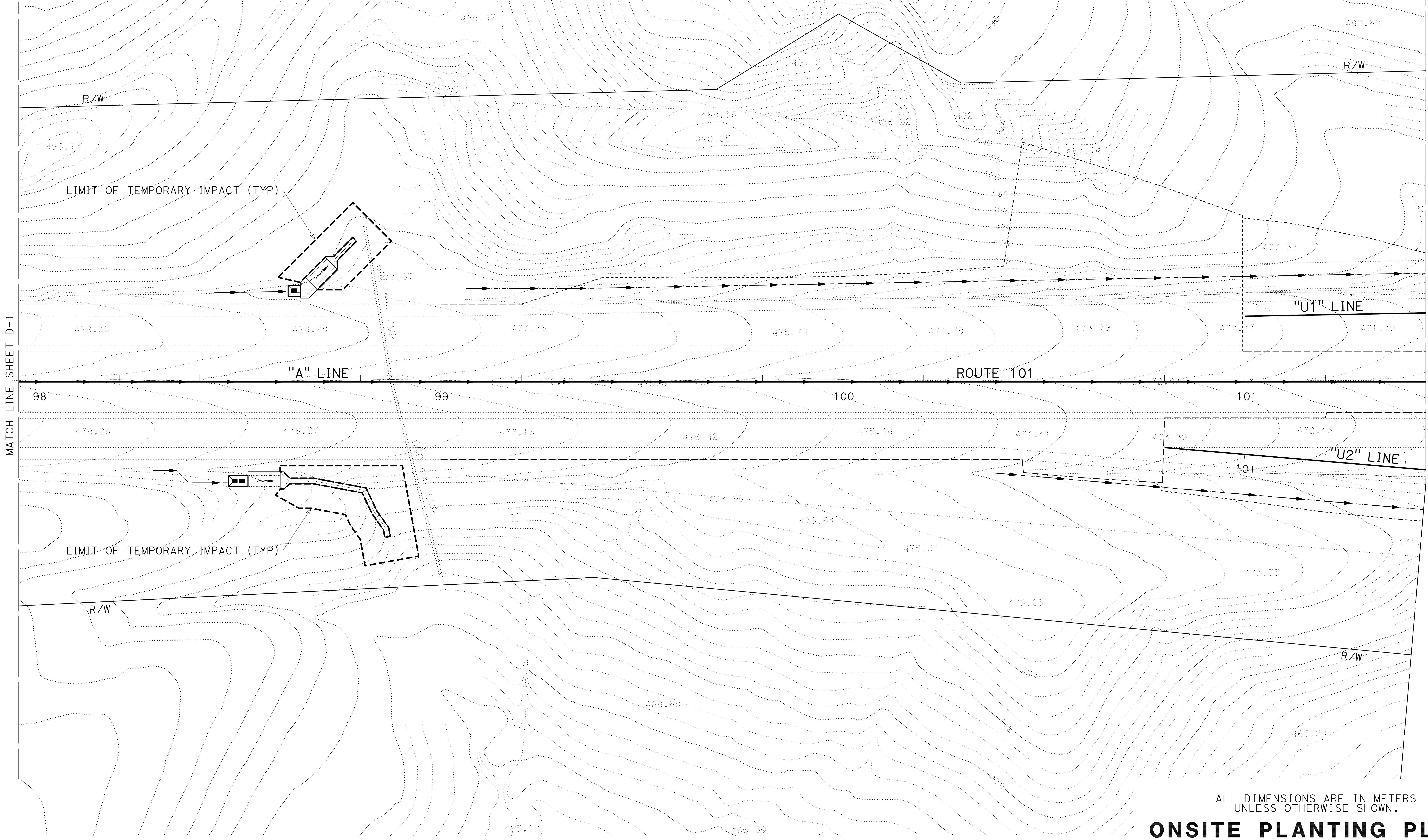

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

ONSITE PLANTING PLAN

SCALE 1:500

D-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

03-LANDSCAPE ARCHITECTURE

SENIOR LANDSCAPE ARCHITECT: T. CHRIS JOHNSON

CALCULATED-DESIGNED BY: JEFFREY PIETRZAK

CHECKED BY

REVISED BY

DATE REVISED

LAST REVISION 00-00-00

DATE PLOTTED => 03-JAN-2012
TIME PLOTTED => 10:27

BORDER LAST REVISED 3/1/2007

RELATIVE BORDER SCALE IS IN MILLIMETERS

0 20 40 60 80

USERNAME => 19937
DGN FILE => 0100000005ge-onsiteplant002.dgn

CU 0381

EA 262001

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9		

LICENSED LANDSCAPE ARCHITECT

PLANS APPROVAL DATE

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LICENSED LANDSCAPE ARCHITECT
Signature
Renewal Date
Date
STATE OF CALIFORNIA

Caltrans Metric

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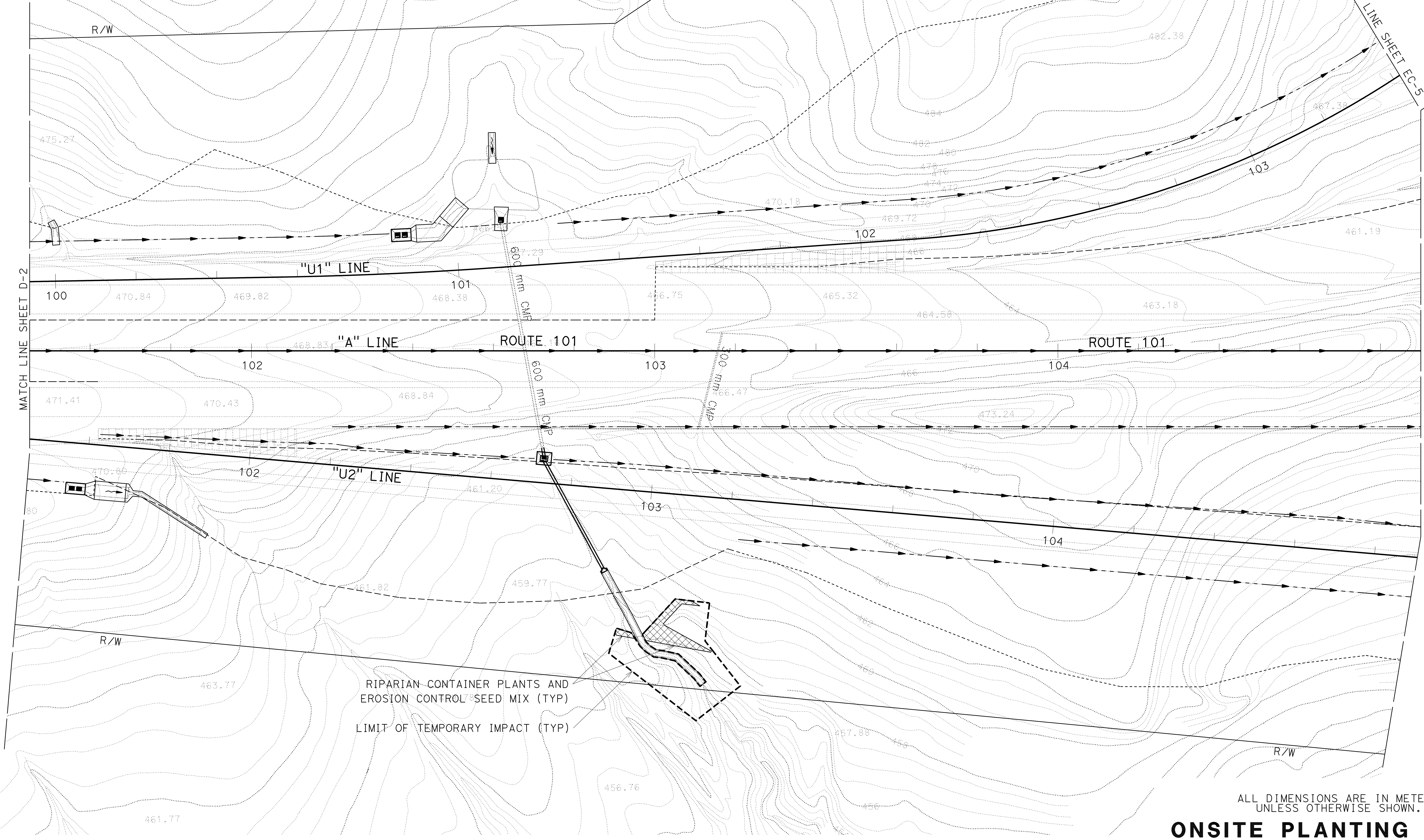

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

ONSITE PLANTING PLAN

SCALE 1:500

D-3

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

03-LANDSCAPE ARCHITECTURE

SENIOR LANDSCAPE ARCHITECT: T. CHRIS JOHNSON

CALCULATED-DESIGNED BY: JEFFREY PIETRZAK

CHECKED BY

REVISED BY

DATE REVISED

LAST REVISION 00-00-00

DATE PLOTTED => 03-JAN-2012
TIME PLOTTED => 10:29

NOTES:

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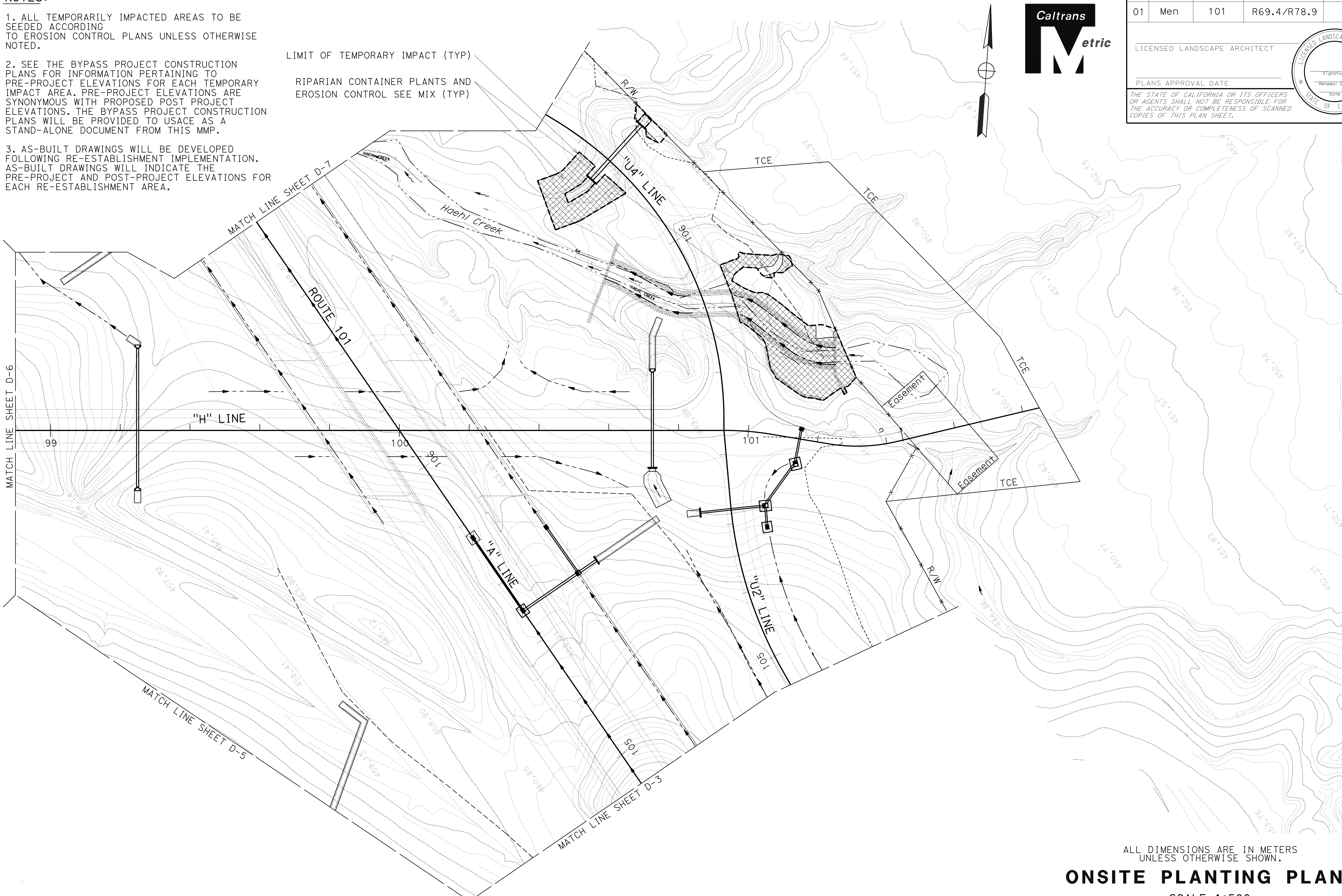

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9		

LICENSED LANDSCAPE ARCHITECT

PLANS APPROVAL DATE

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LICENSED LANDSCAPE ARCHITECT
Signature
Renewal Date
Date
STATE OF CALIFORNIA

Caltrans Metric

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

ONSITE PLANTING PLAN

SCALE 1:500

D-4

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans 03-LANDSCAPE ARCHITECTURE

SENIOR LANDSCAPE ARCHITECT: T. CHRIS JOHNSON

CALCULATED-DESIGNED BY: JEFFREY PIETRZAK

CHECKED BY

REVISED BY

DATE REVISED

LAST REVISION 00-00-00

DATE PLOTTED => 03-JAN-2012
TIME PLOTTED => 11:11

BORDER LAST REVISED 3/1/2007

RELATIVE BORDER SCALE IS IN MILLIMETERS 0 20 40 60 80

USERNAME => 19937
DGN FILE => 0100000005ge-onsiteplant004.dgn

CU 0381

EA 262001

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9		

LICENSED LANDSCAPE ARCHITECT

PLANS APPROVAL DATE

LICENSED LANDSCAPE ARCHITECT
Signature
Renewal Date
Date
STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

Caltrans Metric

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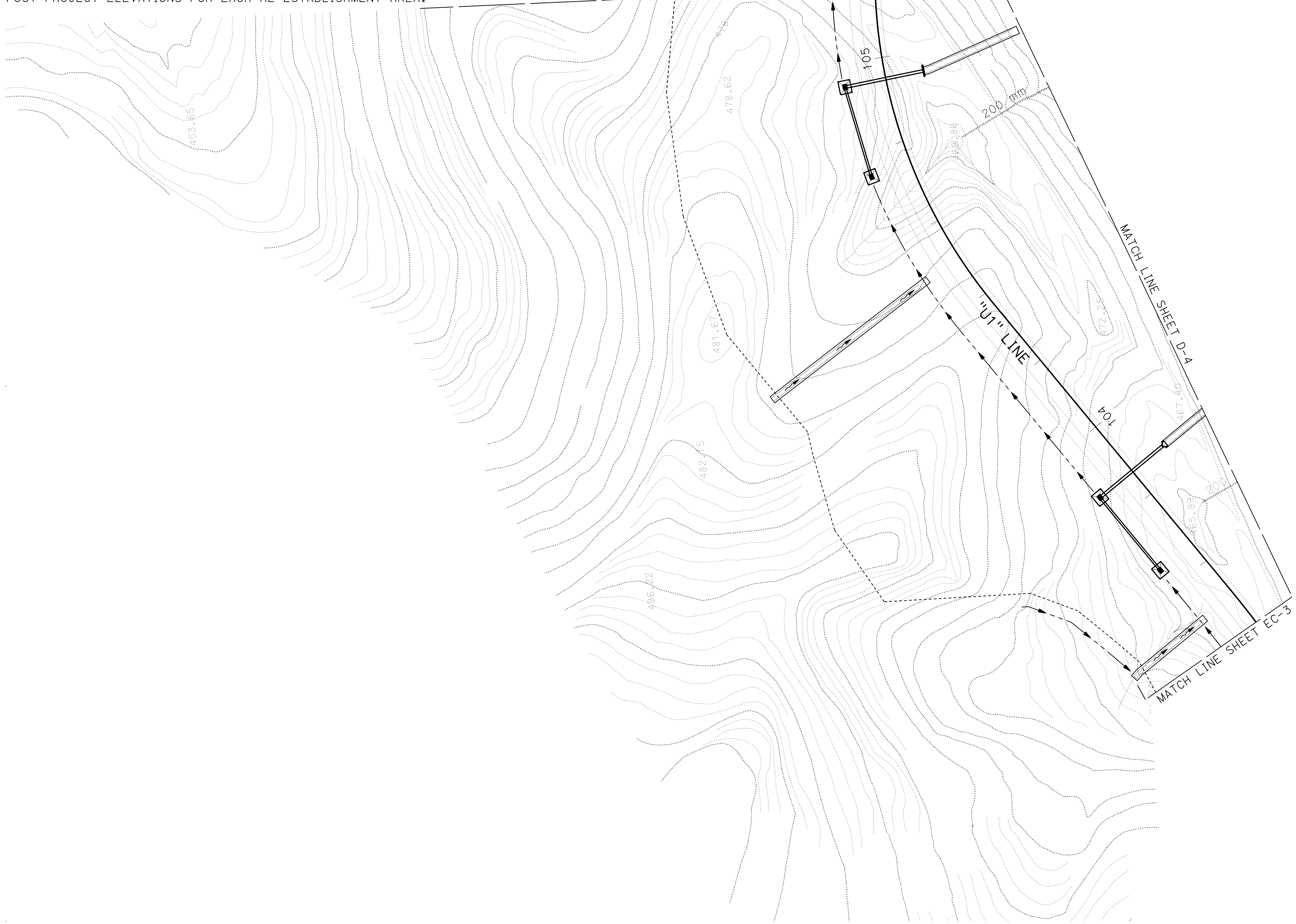

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

ONSITE PLANTING PLAN

SCALE 1:500

D-5

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans 03-LANDSCAPE ARCHITECTURE

SENIOR LANDSCAPE ARCHITECT: T. CHRIS JOHNSON
CALCULATED-DESIGNED BY: JEFFREY PIETRZAK
CHECKED BY
REVISED BY
DATE REVISED

LAST REVISION 00-00-00
DATE PLOTTED => 03-JAN-2012
TIME PLOTTED => 11:15

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9		

LICENSED LANDSCAPE ARCHITECT

PLANS APPROVAL DATE

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LICENSED LANDSCAPE ARCHITECT
Signature
Renewal Date
Date
STATE OF CALIFORNIA

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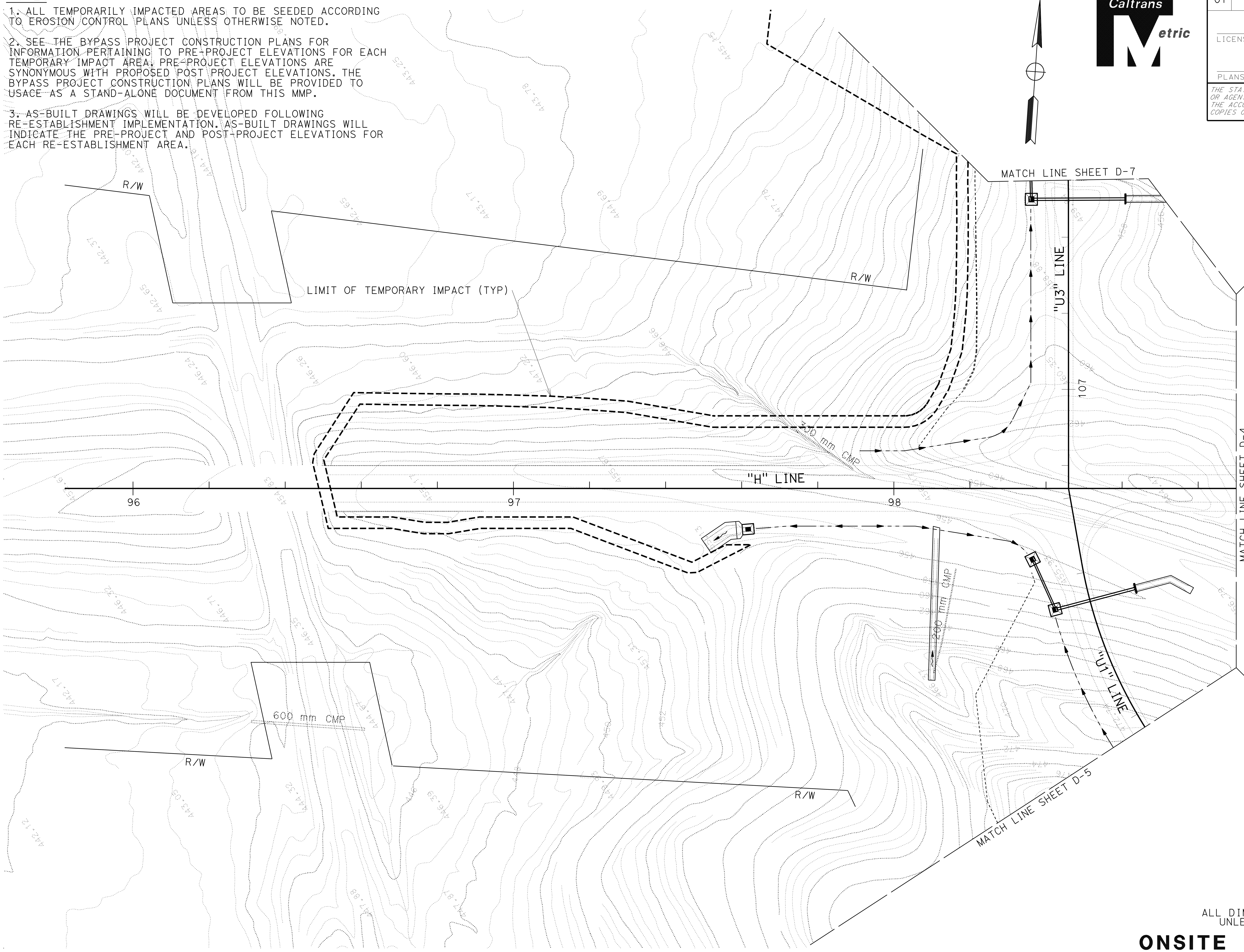

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

ONSITE PLANTING PLAN

SCALE 1:500

D-6

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

03-LANDSCAPE ARCHITECTURE

SENIOR LANDSCAPE ARCHITECT: T. CHRIS JOHNSON

CALCULATED-DESIGNED BY: JEFFREY PIETRZAK

CHECKED BY

REVISED BY

DATE REVISED

LAST REVISION 00-00-00

DATE PLOTTED => 03-JAN-2012
TIME PLOTTED => 11:09

BORDER LAST REVISED 3/1/2007

RELATIVE BORDER SCALE IS IN MILLIMETERS

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USERNAME => 19937
DGN FILE => 0100000005ge-onsiteplant006.dgn

CU 0381

EA 262001

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9		

LICENSED LANDSCAPE ARCHITECT

PLANS APPROVAL DATE

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LICENSED LANDSCAPE ARCHITECT
Signature
Renewal Date
Date
STATE OF CALIFORNIA

Caltrans Metric

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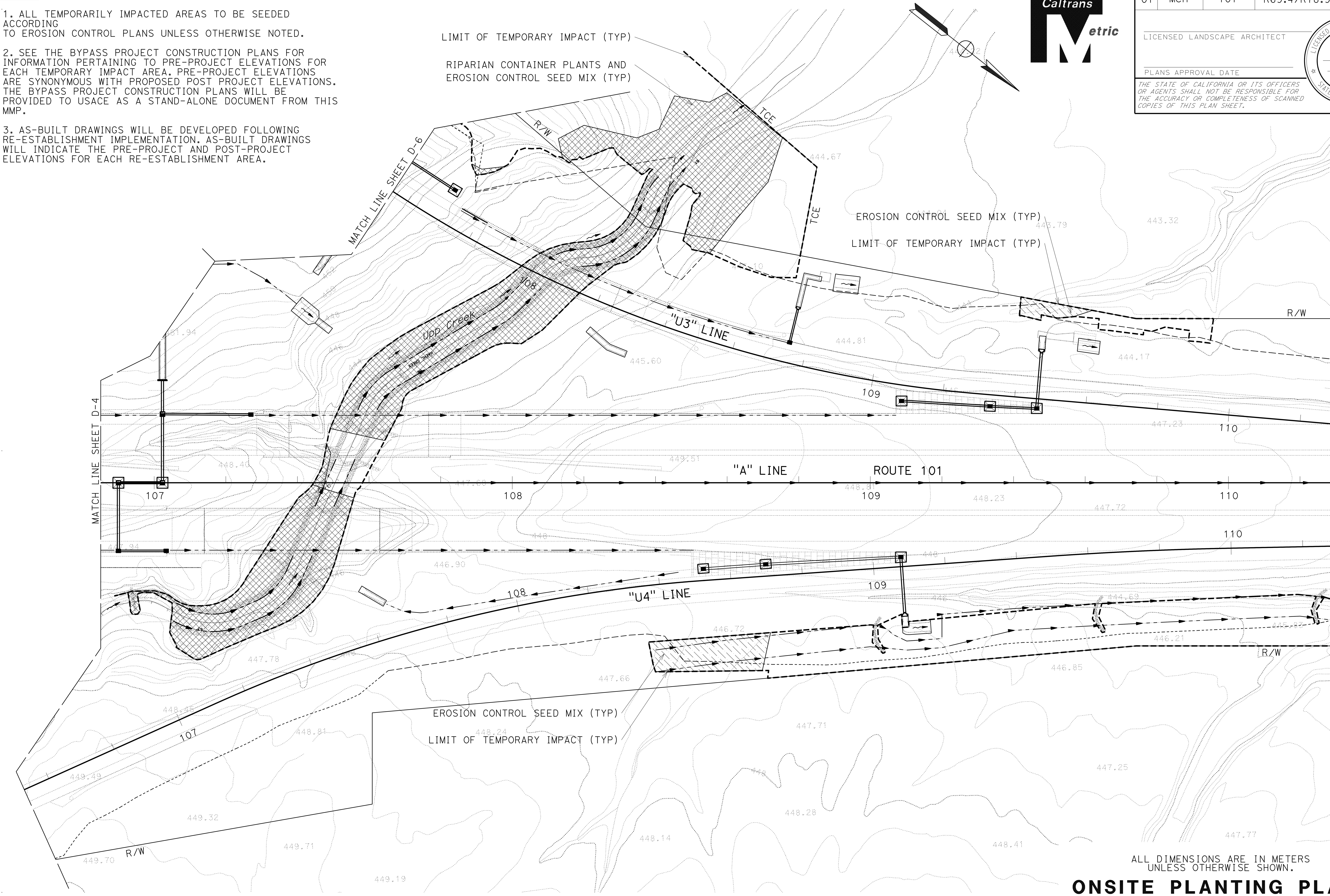

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

ONSITE PLANTING PLAN

SCALE 1:500

D-7

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans 03-LANDSCAPE ARCHITECTURE

SENIOR LANDSCAPE ARCHITECT: T. CHRIS JOHNSON
CALCULATED-DESIGNED BY: JEFFREY PIETRZAK
CHECKED BY
REVISED BY
DATE REVISED

BORDER LAST REVISED 3/1/2007

RELATIVE BORDER SCALE IS IN MILLIMETERS 0 20 40 60 80

USERNAME => 19937
DGN FILE => 0100000005ge-onsiteplant007.dgn

CU 0381

EA 262001

LAST REVISION 00-00-00
DATE PLOTTED => 03-JAN-2012
TIME PLOTTED => 11:16

NOTES:

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Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9		

Caltrans Metric

LICENSED LANDSCAPE ARCHITECT

PLANS APPROVAL DATE

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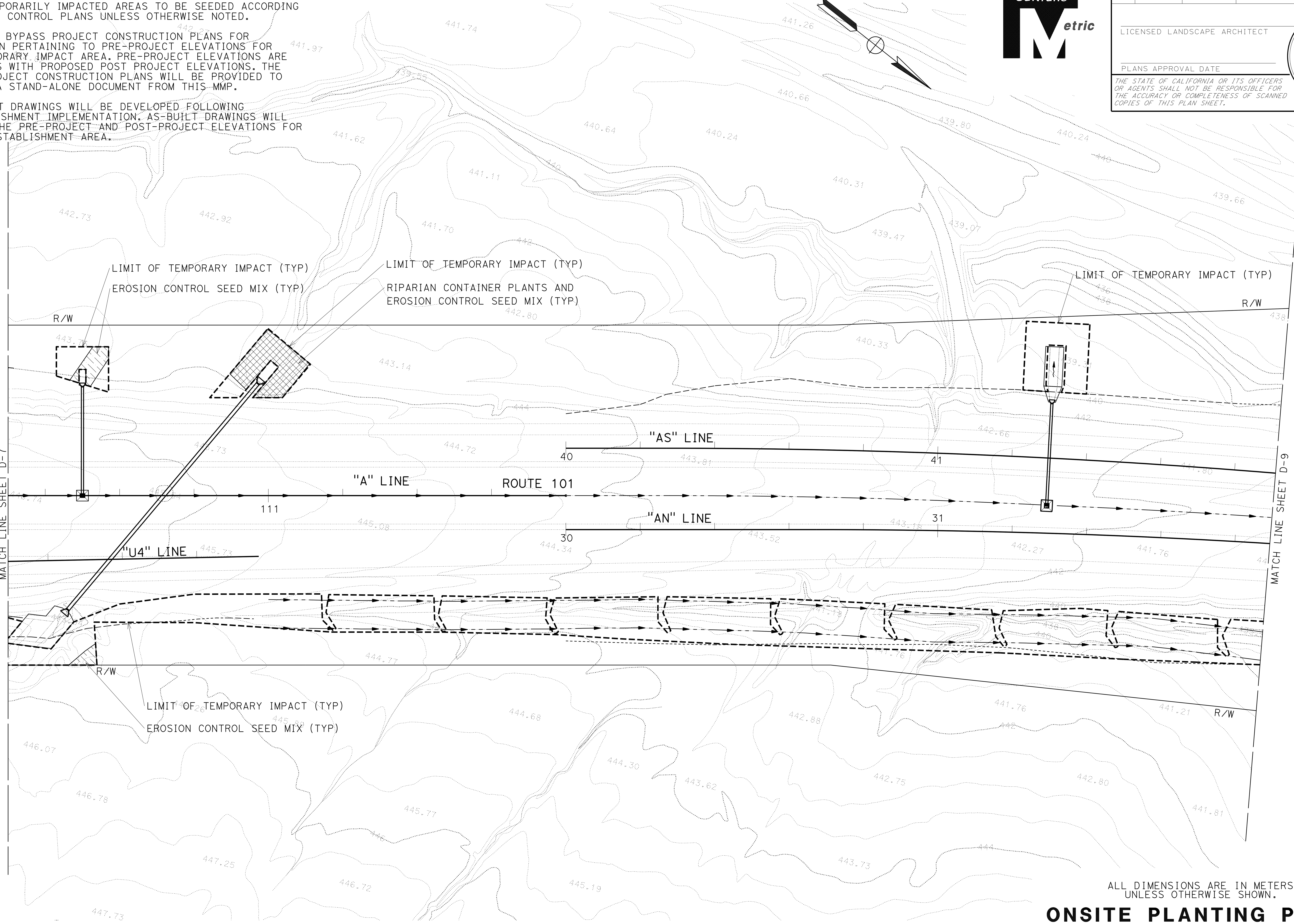

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

ONSITE PLANTING PLAN

SCALE 1:500

D-8

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

03-LANDSCAPE ARCHITECTURE

SENIOR LANDSCAPE ARCHITECT: T. CHRIS JOHNSON

CALCULATED-DESIGNED BY / CHECKED BY

JEFFREY PIETRZAK

REVISED BY / DATE REVISED

LAST REVISION 00-00-00

DATE PLOTTED => 03-JAN-2012
TIME PLOTTED => 11:20

NOTES:

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01	Men	101	R69.4/R78.9		

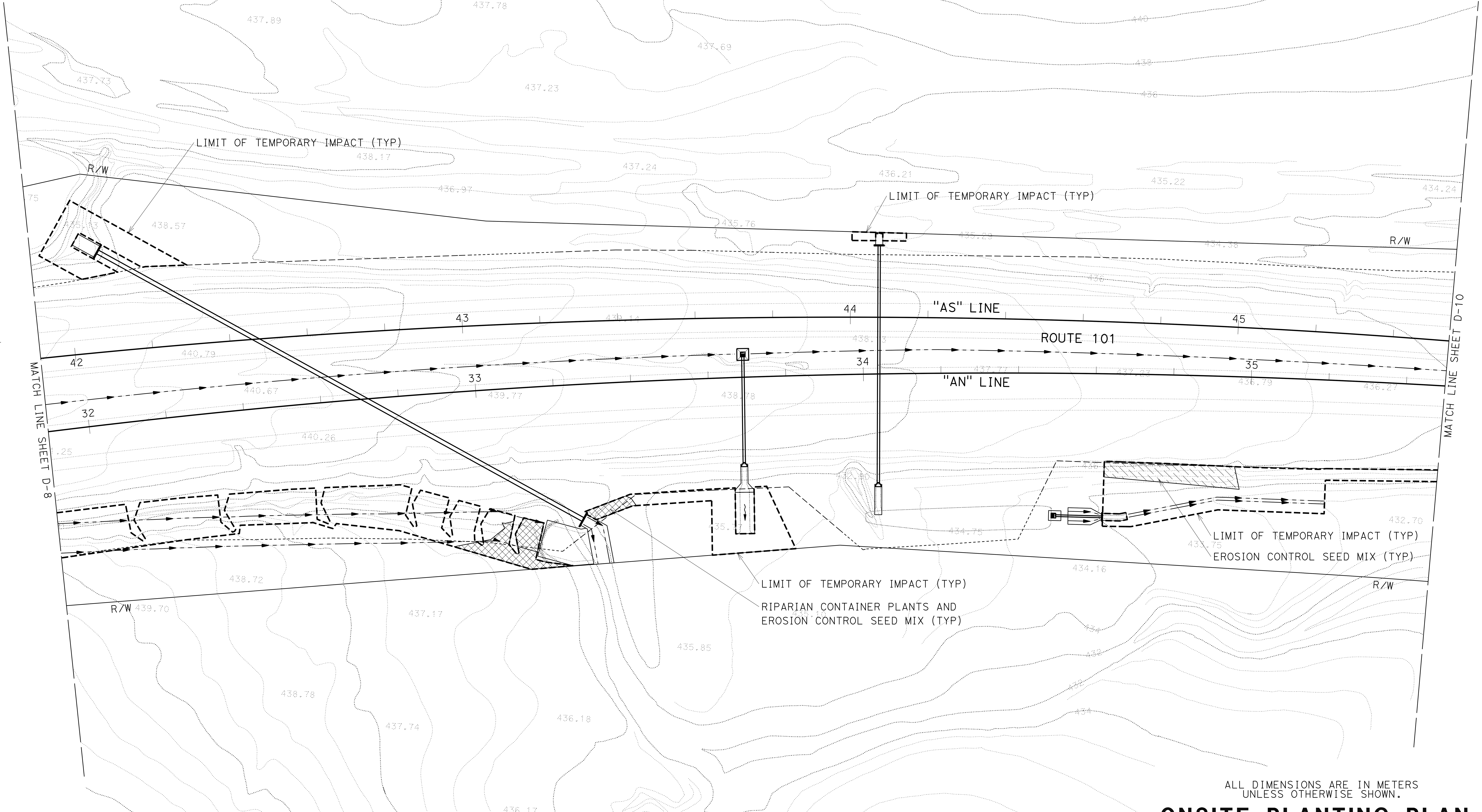
Caltrans Metric

LICENSED LANDSCAPE ARCHITECT

PLANS APPROVAL DATE

LICENSED LANDSCAPE ARCHITECT Signature Renewal Date Date STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.



ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

ONSITE PLANTING PLAN

SCALE 1:500

D-9

REVISED BY | DATE REVISED

JEFFREY PIETRZAK

CALCULATED-DESIGNED BY | CHECKED BY

SENIOR LANDSCAPE ARCHITECT

T. CHRIS JOHNSON

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans 03-LANDSCAPE ARCHITECTURE

LAST REVISION 00-00-00 | DATE PLOTTED => 03-JAN-2012 | TIME PLOTTED => 11:27

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9		

Caltrans Metric

LICENSED LANDSCAPE ARCHITECT

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LICENSED LANDSCAPE ARCHITECT
Signature
Renewal Date
Date
STATE OF CALIFORNIA

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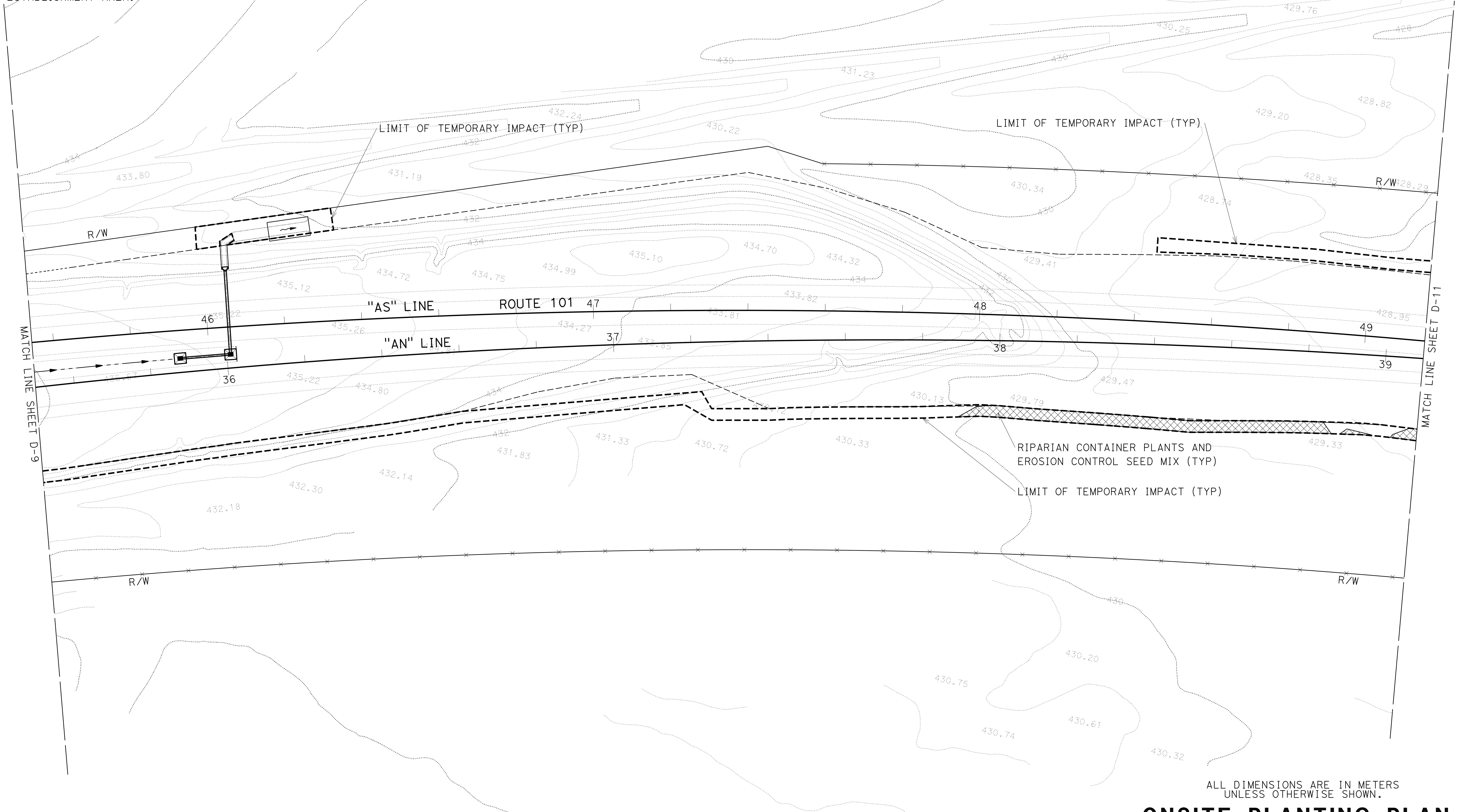

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

ONSITE PLANTING PLAN

SCALE 1:500

D-10

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
03-LANDSCAPE ARCHITECTURE

SENIOR LANDSCAPE ARCHITECT: T. CHRIS JOHNSON
CALCULATED-DESIGNED BY / CHECKED BY
JEFFREY PIETRZAK
REVISED BY / DATE REVISED

LAST REVISION 00-00-00
DATE PLOTTED => 03-JAN-2012
TIME PLOTTED => 11:53

BORDER LAST REVISED 3/1/2007

RELATIVE BORDER SCALE IS IN MILLIMETERS 0 20 40 60 80

USERNAME => 19937
DGN FILE => 0100000005ge-onsiteplant010.dgn

CU 0381

EA 262001

Dist 01 | COUNTY Men | ROUTE 101 | KILOMETER POST TOTAL PROJECT R69.4/R78.9 | SHEET No. | TOTAL SHEETS

LICENSED LANDSCAPE ARCHITECT

PLANS APPROVAL DATE

LICENSED LANDSCAPE ARCHITECT — Signature — Renewal Date — Date — STATE OF CALIFORNIA

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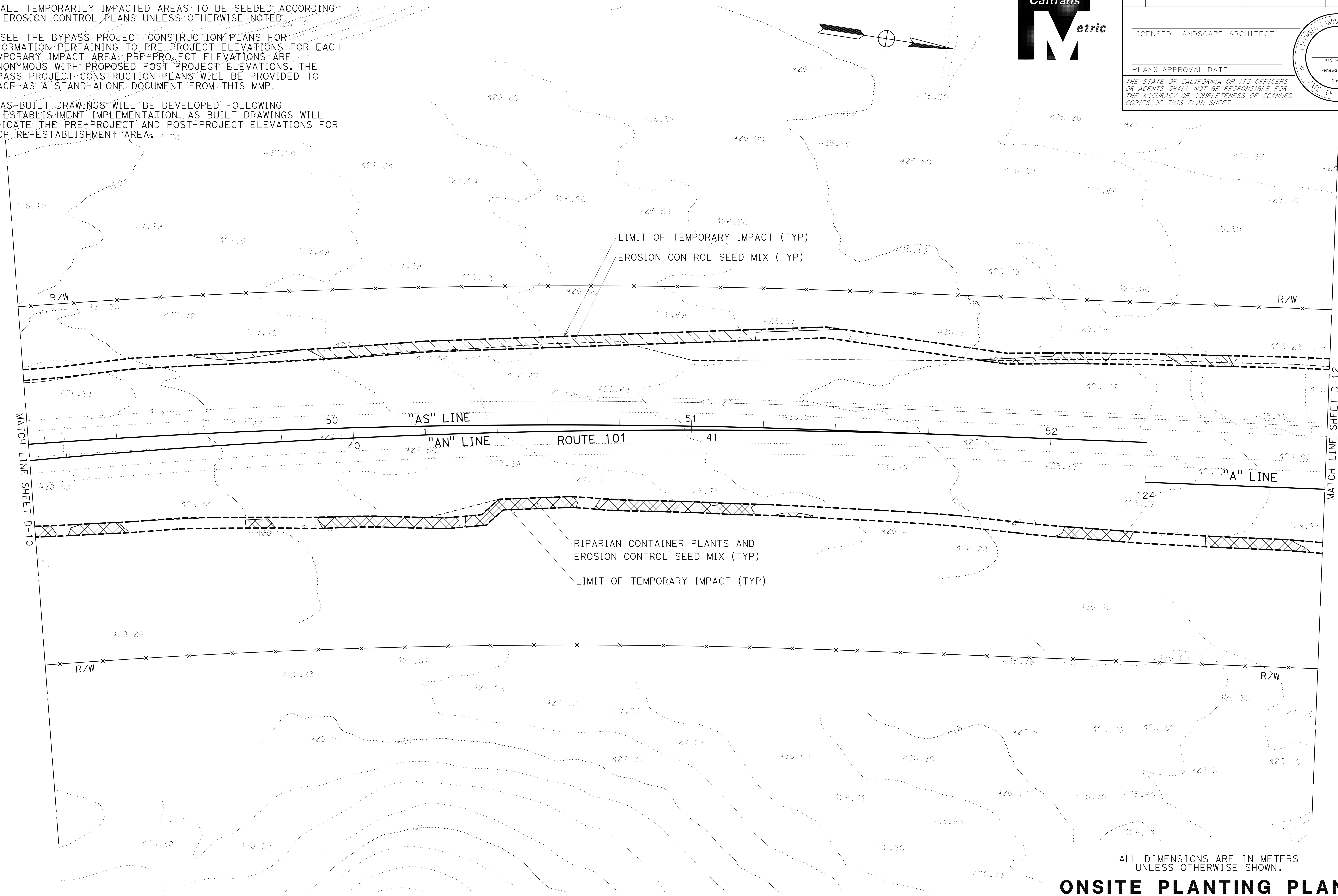

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

ONSITE PLANTING PLAN

SCALE 1:500

D-11

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans 03-LANDSCAPE ARCHITECTURE

SENIOR LANDSCAPE ARCHITECT T. CHRIS JOHNSON

CALCULATED-DESIGNED BY JEFFREY PIETRZAK | CHECKED BY

REVISED BY | DATE REVISED

LAST REVISION 00-00-00 | DATE PLOTTED => 03-JAN-2012 | TIME PLOTTED => 11:57

BORDER LAST REVISED 3/1/2007

RELATIVE BORDER SCALE IS IN MILLIMETERS 0 20 40 60 80

USERNAME => 19937

DGN FILE => 0100000005ge-onsiteplant011.dgn

CU 0381

EA 262001

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9		

LICENSED LANDSCAPE ARCHITECT

PLANS APPROVAL DATE

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

LICENSED LANDSCAPE ARCHITECT — Signature — Renewal Date — Date — STATE OF CALIFORNIA

Caltrans Metric

NOTES:

1. ALL TEMPORARILY IMPACTED AREAS TO BE SEEDED ACCORDING TO EROSION CONTROL PLANS UNLESS OTHERWISE NOTED.

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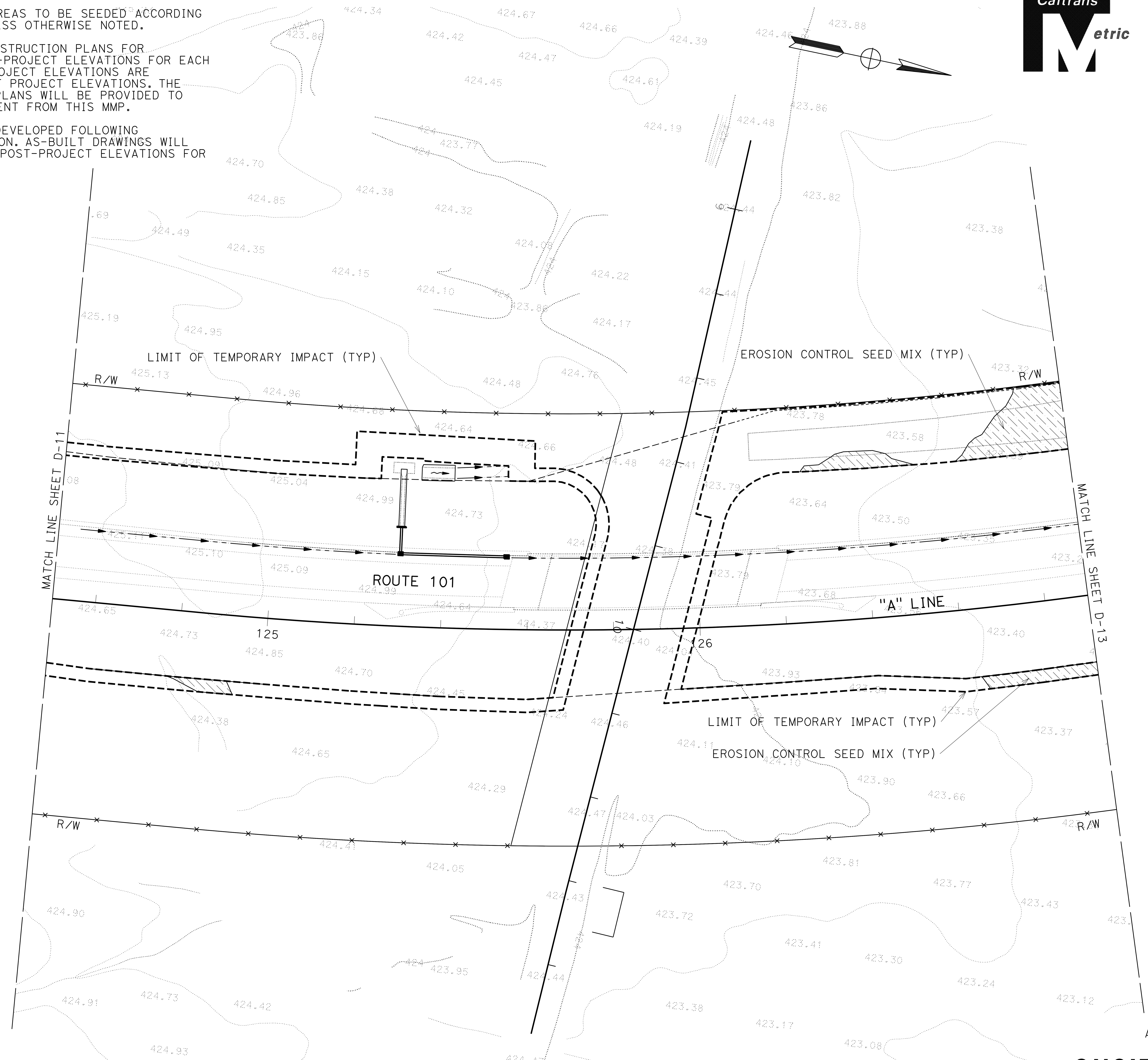

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

ONSITE PLANTING PLAN

SCALE 1:500

D-12

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

03-LANDSCAPE ARCHITECTURE

SENIOR LANDSCAPE ARCHITECT: T. CHRIS JOHNSON

CALCULATED-DESIGNED BY: JEFFREY PIETRZAK

CHECKED BY

REVISED BY

DATE REVISED

LAST REVISION 00-00-00

DATE PLOTTED => 03-JAN-2012

TIME PLOTTED => 12:44

BORDER LAST REVISED 3/1/2007

RELATIVE BORDER SCALE IS IN MILLIMETERS

0 20 40 60 80

USERNAME => 19937

DGN FILE => 0100000005ge-onsiteplant012.dgn

CU 0381

EA 262001

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9		

LICENSED LANDSCAPE ARCHITECT

PLANS APPROVAL DATE

LICENSED LANDSCAPE ARCHITECT · Signature · Renewal Date · Date · STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

Caltrans Metric

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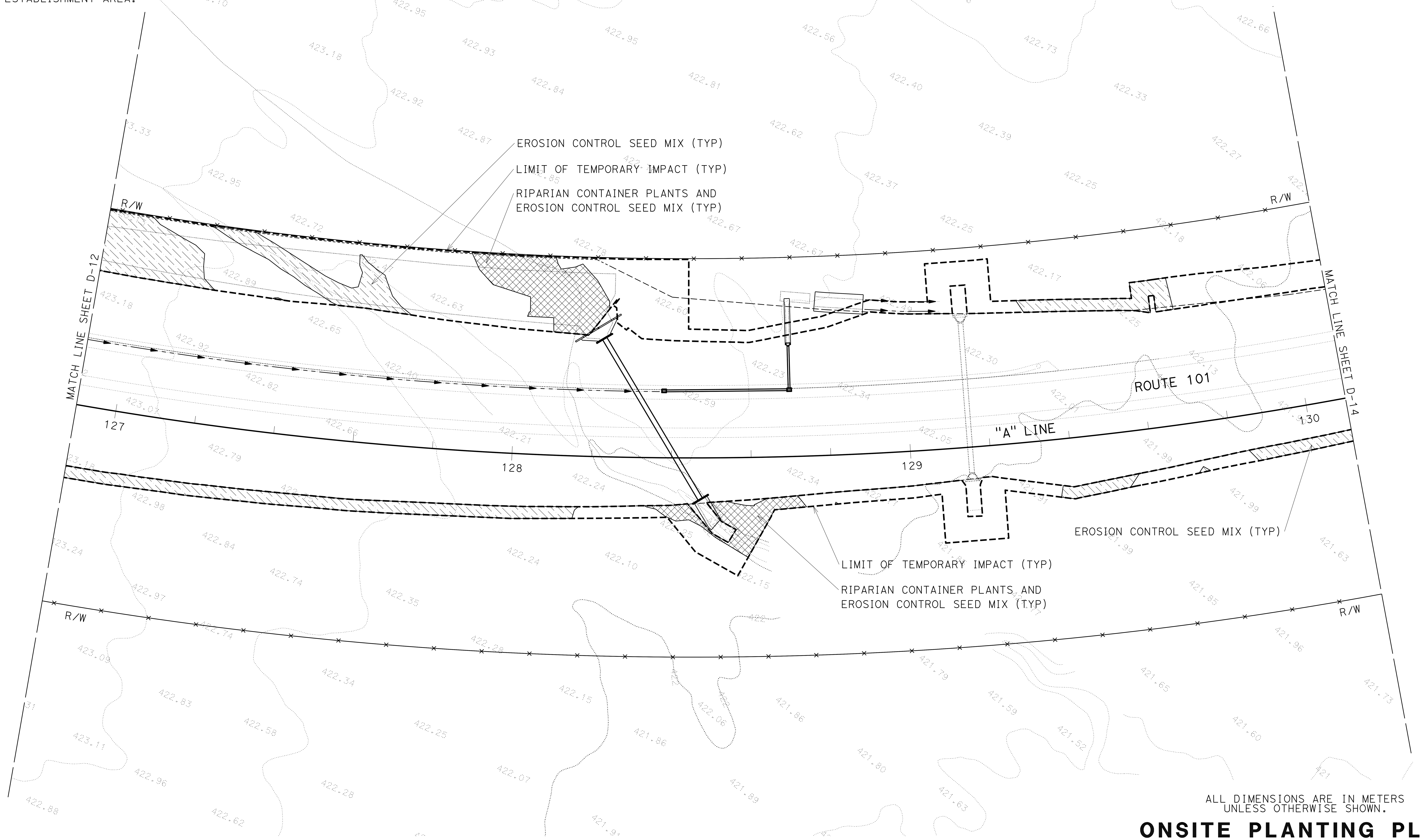

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

ONSITE PLANTING PLAN

SCALE 1:500

D-13

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans 03-LANDSCAPE ARCHITECTURE

SENIOR LANDSCAPE ARCHITECT: T. CHRIS JOHNSON

CALCULATED-DESIGNED BY: JEFFREY PIETRZAK

CHECKED BY

REVISED BY

DATE REVISED

LAST REVISION 00-00-00

DATE PLOTTED => 03-JAN-2012
TIME PLOTTED => 12:47

BORDER LAST REVISED 3/1/2007

RELATIVE BORDER SCALE IS IN MILLIMETERS 0 20 40 60 80

USERNAME => 19937
DGN FILE => 0100000005ge-onsiteplant013.dgn

CU 0381

EA 262001

NOTES:

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Caltrans Metric

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9		

LICENSED LANDSCAPE ARCHITECT

PLANS APPROVAL DATE

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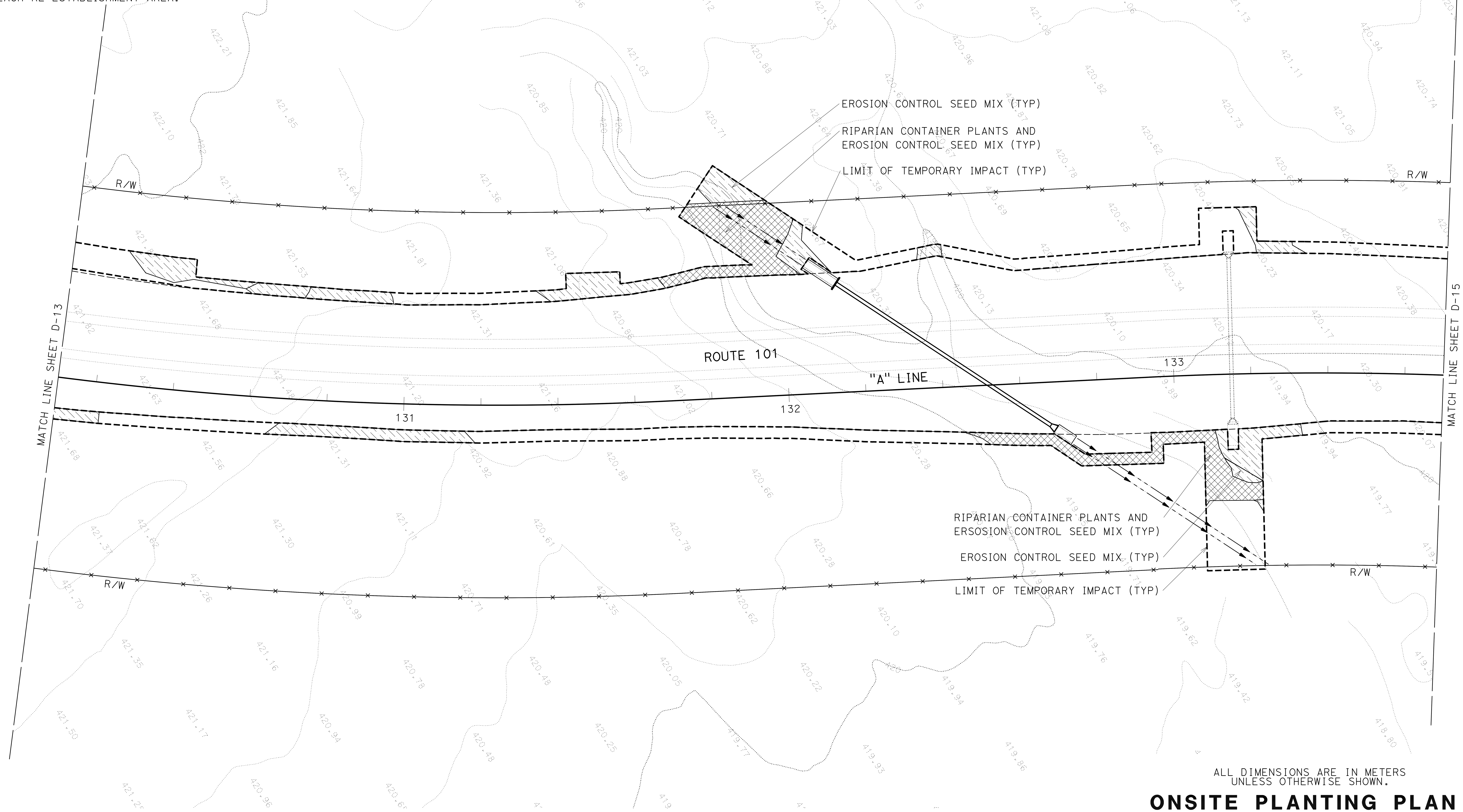
LICENSED LANDSCAPE ARCHITECT · Signature · Renewal Date · Date · STATE OF CALIFORNIA



ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

ONSITE PLANTING PLAN

SCALE 1:500

D-14

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans 03-LANDSCAPE ARCHITECTURE

SENIOR LANDSCAPE ARCHITECT T. CHRIS JOHNSON

CALCULATED-DESIGNED BY JEFFREY PIETRZAK

CHECKED BY

REVISED BY

DATE REVISED

LAST REVISION 00-00-00

DATE PLOTTED => 03-JAN-2012

TIME PLOTTED => 12:49

NOTES:

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Caltrans Metric

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9		

LICENSED LANDSCAPE ARCHITECT

PLANS APPROVAL DATE

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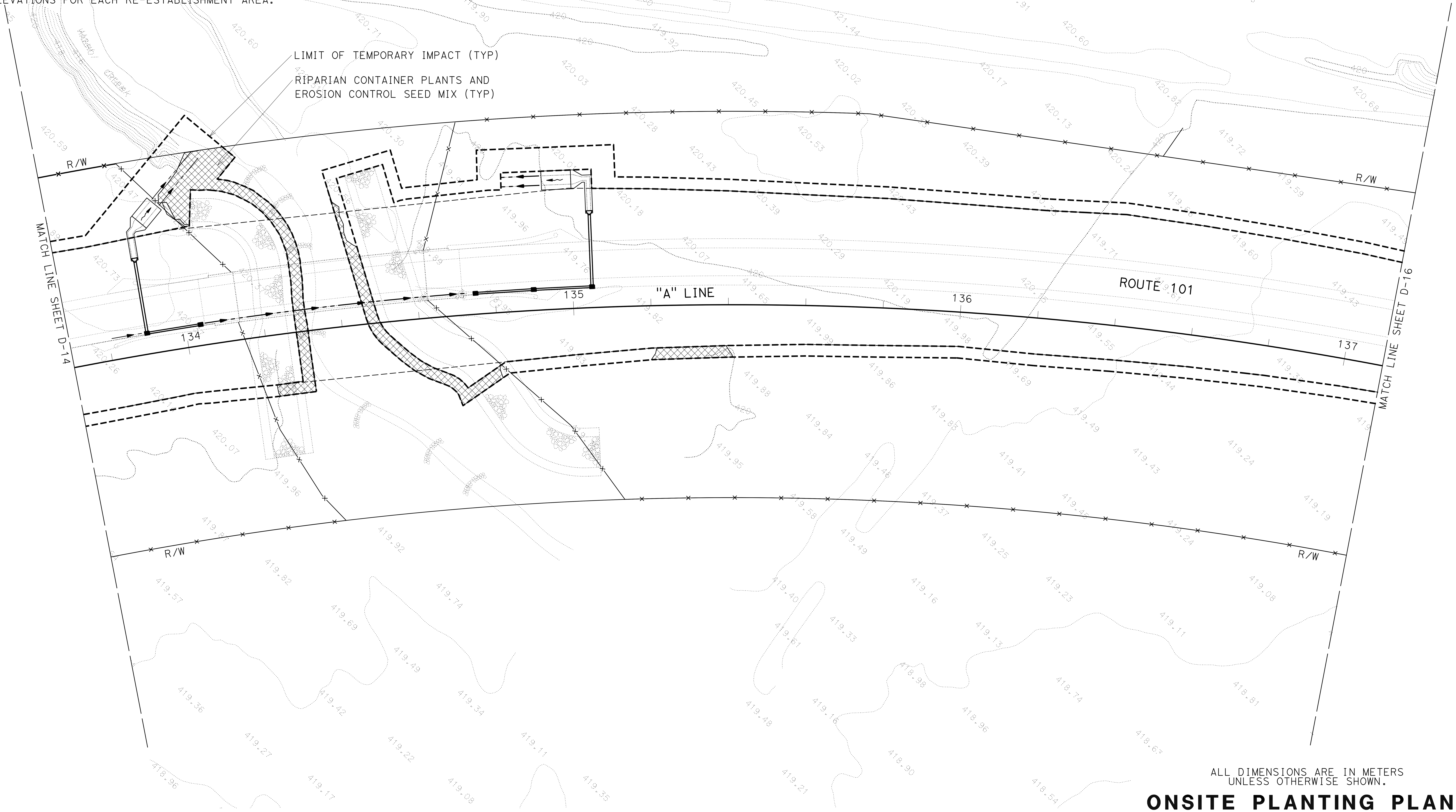
LICENSED LANDSCAPE ARCHITECT — Signature — Renewal Date — Date — STATE OF CALIFORNIA



ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

ONSITE PLANTING PLAN

SCALE 1:500

D-15

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans 03-LANDSCAPE ARCHITECTURE

SENIOR LANDSCAPE ARCHITECT: T. CHRIS JOHNSON

CALCULATED-DESIGNED BY: JEFFREY PIETRZAK

CHECKED BY

REVISED BY

DATE REVISED

BORDER LAST REVISED 3/1/2007

RELATIVE BORDER SCALE IS IN MILLIMETERS 0 20 40 60 80

USERNAME => 19937
DGN FILE => 0100000005ge-onsiteplant015.dgn

CU 0381

EA 262001

LAST REVISION 00-00-00

DATE PLOTTED => 03-JAN-2012
TIME PLOTTED => 12:50

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9		

Caltrans Metric

LICENSED LANDSCAPE ARCHITECT

PLANS APPROVAL DATE

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LICENSED LANDSCAPE ARCHITECT Signature Renewal Date Date STATE OF CALIFORNIA

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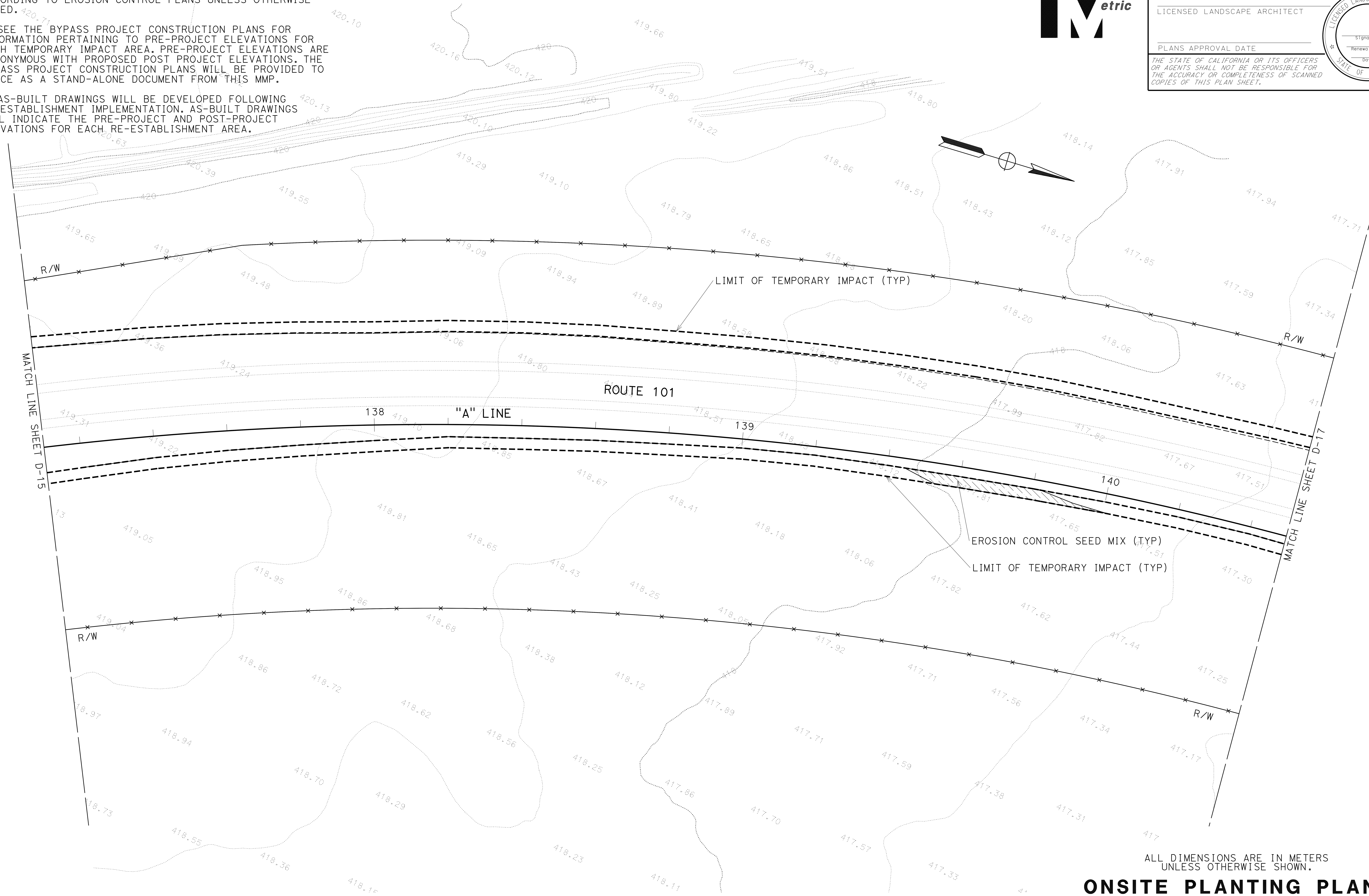

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

ONSITE PLANTING PLAN

SCALE 1:500

D-16

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans 03-LANDSCAPE ARCHITECTURE

SENIOR LANDSCAPE ARCHITECT: T. CHRIS JOHNSON

CALCULATED-DESIGNED BY / CHECKED BY: JEFFREY PIETRZAK

REVISED BY / DATE REVISED

DATE PLOTTED => 03-JAN-2012
TIME PLOTTED => 12:53

LAST REVISION 00-00-00

NOTES:

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Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9		

Caltrans Metric

LICENSED LANDSCAPE ARCHITECT

PLANS APPROVAL DATE

LICENSED LANDSCAPE ARCHITECT
Signature
Renewal Date
Date
STATE OF CALIFORNIA

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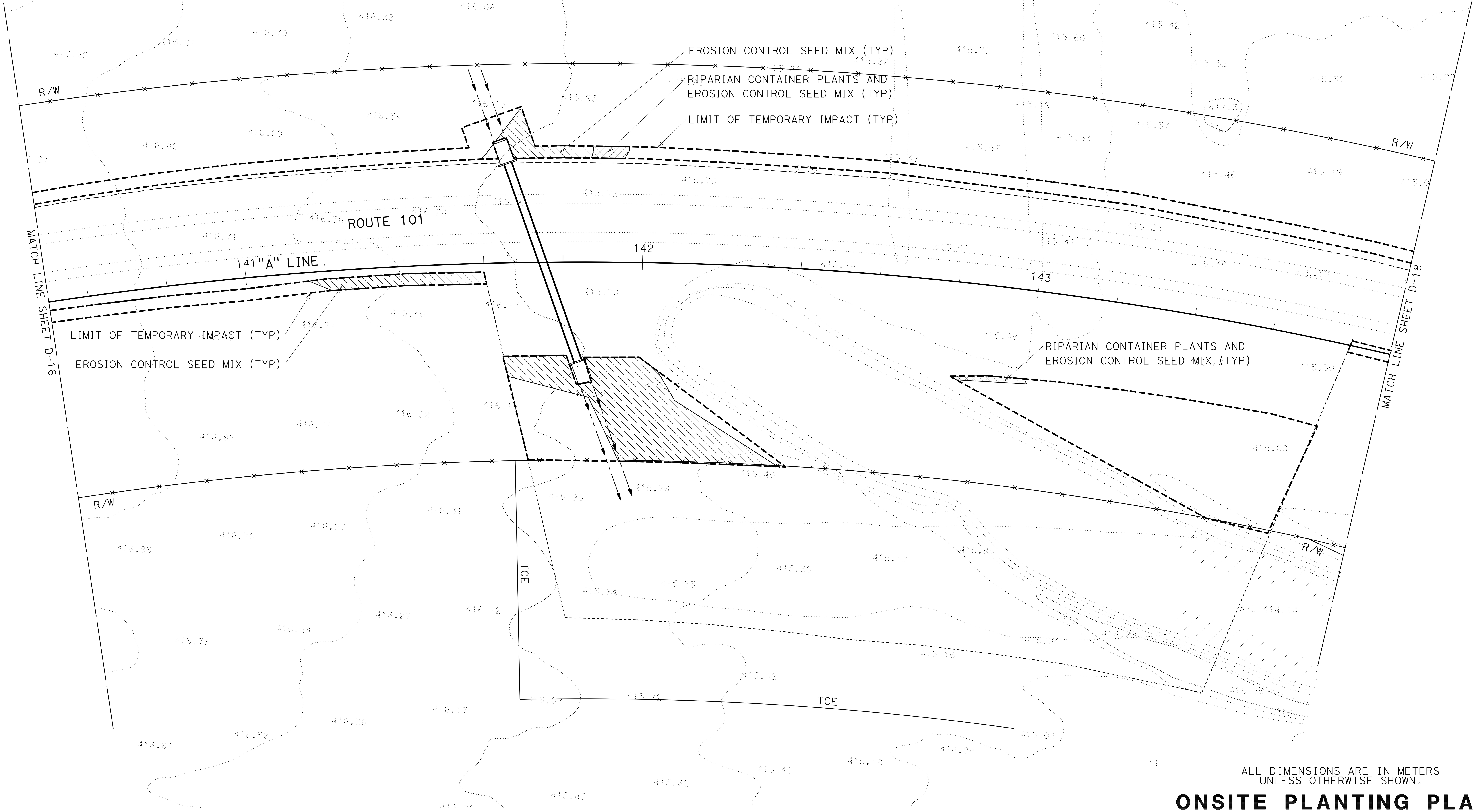

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

ONSITE PLANTING PLAN

SCALE 1:500

D-17

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
03-LANDSCAPE ARCHITECTURE

SENIOR LANDSCAPE ARCHITECT	T. CHRIS JOHNSON
CALCULATED-DESIGNED BY	CHECKED BY
JEFFREY PIETRZAK	
REVISED BY	DATE REVISED

LAST REVISION 00-00-00
DATE PLOTTED => 03-JAN-2012
TIME PLOTTED => 12:55

BORDER LAST REVISED 3/1/2007

RELATIVE BORDER SCALE IS IN MILLIMETERS
0 20 40 60 80

USERNAME => 19937
DGN FILE => 0100000005ge-onsiteplant017.dgn

CU 0381

EA 262001

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9		

LICENSED LANDSCAPE ARCHITECT

PLANS APPROVAL DATE

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LICENSED LANDSCAPE ARCHITECT / Signature / Renewal Date / Date / STATE OF CALIFORNIA

Caltrans Metric

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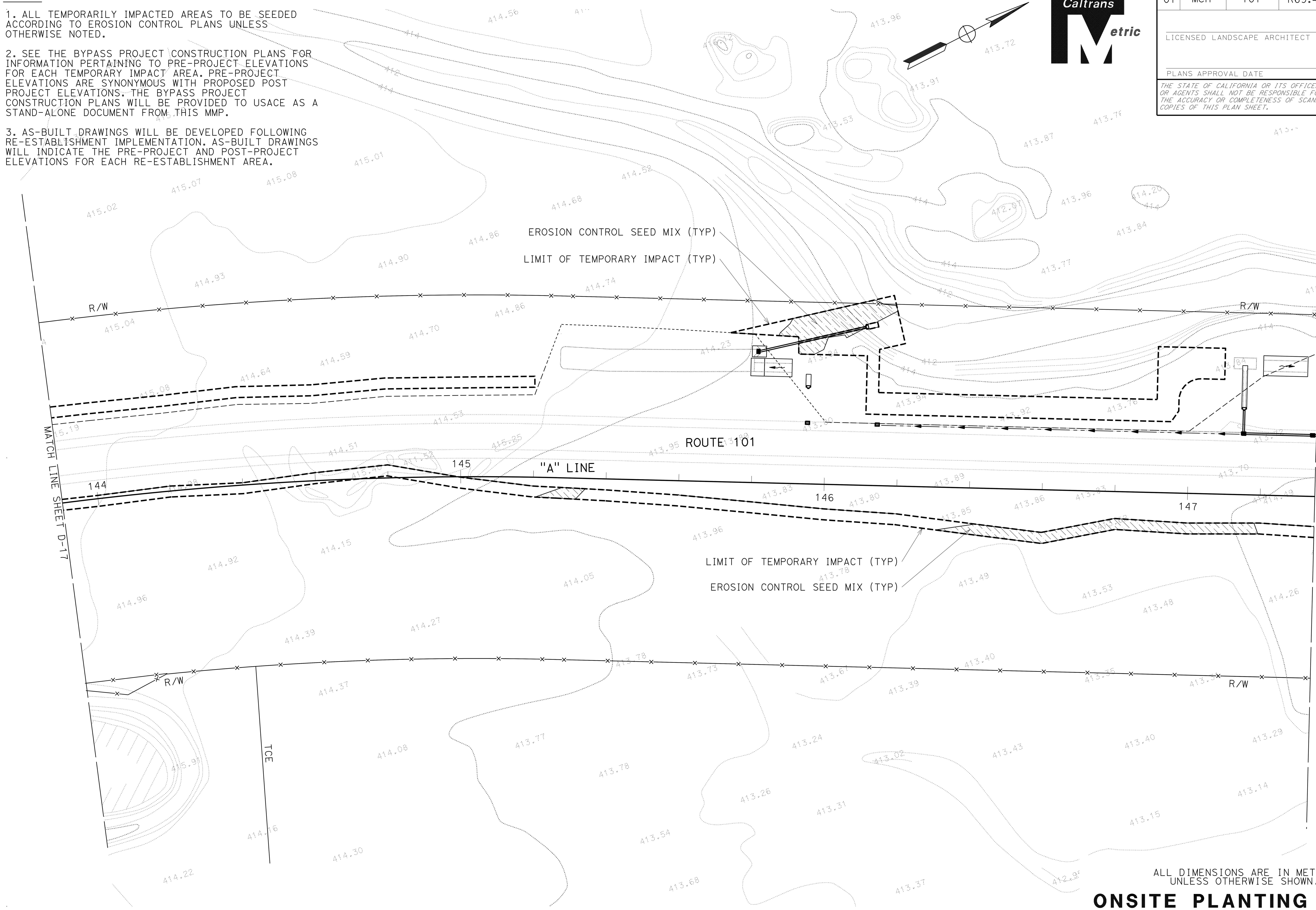

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

ONSITE PLANTING PLAN

SCALE 1:500

D-18

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans 03-LANDSCAPE ARCHITECTURE

SENIOR LANDSCAPE ARCHITECT: T. CHRIS JOHNSON

CALCULATED-DESIGNED BY / CHECKED BY

JEFFREY PIETRZAK

REVISED BY / DATE REVISED

LAST REVISION 00-00-00 | DATE PLOTTED => 03-JAN-2012 | TIME PLOTTED => 12:57

BORDER LAST REVISED 3/1/2007

RELATIVE BORDER SCALE IS IN MILLIMETERS 0 20 40 60 80

USERNAME => 19937
DGN FILE => 0100000005ge-onsiteplant018.dgn

CU 0381

EA 262001

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9		

Caltrans Metric

LICENSED LANDSCAPE ARCHITECT

PLANS APPROVAL DATE

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LICENSED LANDSCAPE ARCHITECT — Signature — Renewal Date — Date — STATE OF CALIFORNIA

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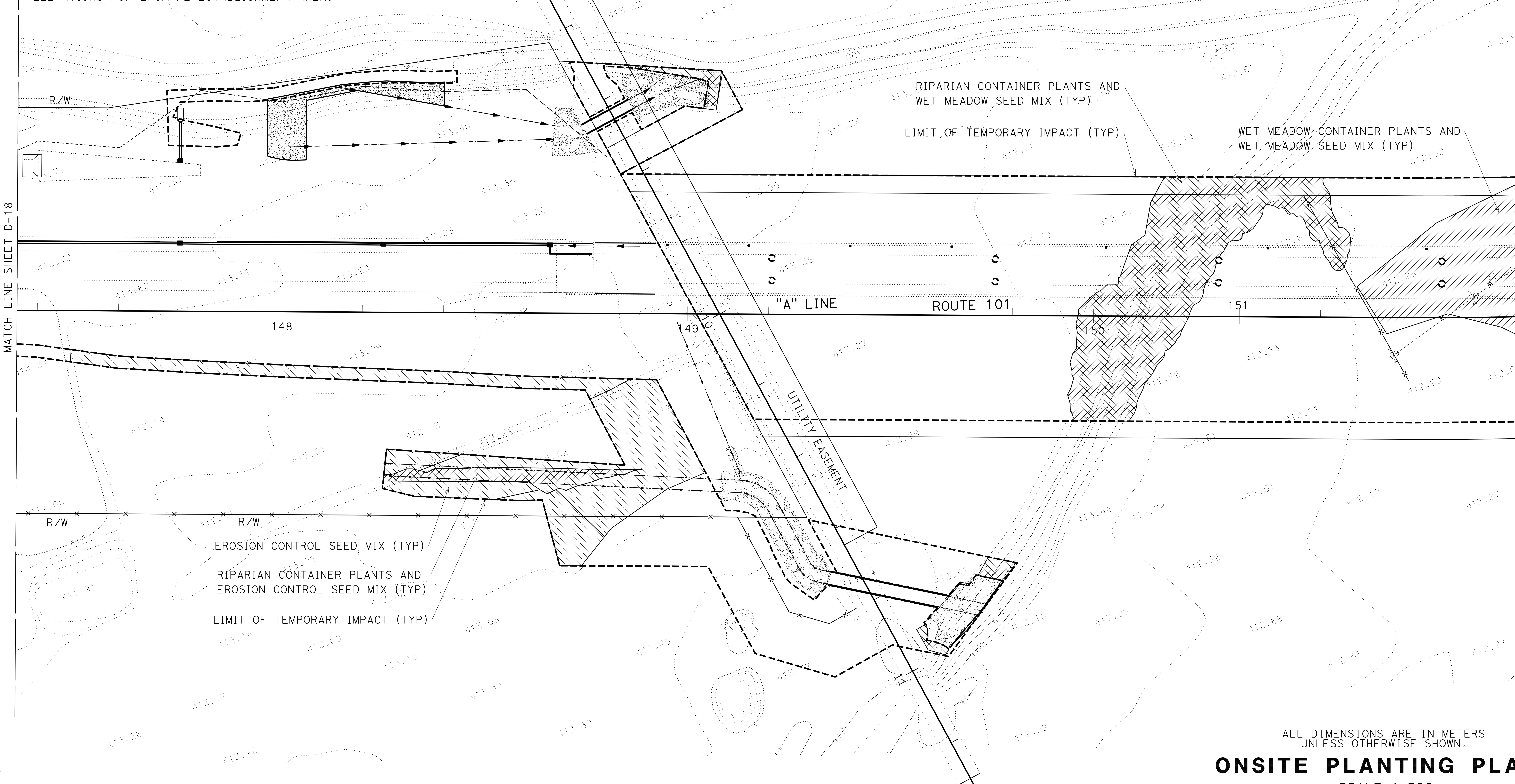

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

ONSITE PLANTING PLAN

SCALE 1:500

D-19

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans 03-LANDSCAPE ARCHITECTURE

SENIOR LANDSCAPE ARCHITECT: T. CHRIS JOHNSON

CALCULATED-DESIGNED BY: JEFFREY PIETRZAK

CHECKED BY

REVISED BY

DATE REVISED

DATE PLOTTED => 03-JAN-2012
TIME PLOTTED => 12:59

LAST REVISION 00-00-00

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9		

LICENSED LANDSCAPE ARCHITECT

PLANS APPROVAL DATE

LICENSED LANDSCAPE ARCHITECT
Signature
Renewal Date
Date
STATE OF CALIFORNIA

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Caltrans Metric

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ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

ONSITE PLANTING PLAN (VIADUCT)

SCALE 1:500

D-20

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans 03-LANDSCAPE ARCHITECTURE

SENIOR LANDSCAPE ARCHITECT T. CHRIS JOHNSON

CALCULATED-DESIGNED BY JEFFREY PIETRZAK

CHECKED BY

REVISED BY

DATE REVISED

BORDER LAST REVISED 3/1/2007

RELATIVE BORDER SCALE IS IN MILLIMETERS 0 20 40 60 80

USERNAME => 19937
DGN FILE => 0100000005ge-onsiteplant020.dgn

CU 0381

EA 262001

LAST REVISION 00-00-00

DATE PLOTTED => 03-JAN-2012
TIME PLOTTED => 13:00

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9		

Caltrans Metric

LICENSED LANDSCAPE ARCHITECT

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ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

ONSITE PLANTING PLAN (VIADUCT)

SCALE 1:500

D-21

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans 03-LANDSCAPE ARCHITECTURE

SENIOR LANDSCAPE ARCHITECT: T. CHRIS JOHNSON

CALCULATED-DESIGNED BY: JEFFREY PIETRZAK

CHECKED BY

REVISED BY

DATE REVISED

LAST REVISION 00-00-00

DATE PLOTTED => 03-JAN-2012

TIME PLOTTED => 13:02

BORDER LAST REVISED 3/1/2007

RELATIVE BORDER SCALE IS IN MILLIMETERS 0 20 40 60 80

USERNAME => 19937

DGN FILE => 0100000005ge-onsiteplant021.dgn

CU 0381

EA 262001

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9		

Caltrans Metric

LICENSED LANDSCAPE ARCHITECT

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LICENSED LANDSCAPE ARCHITECT · Signature · Renewal Date · Date · STATE OF CALIFORNIA

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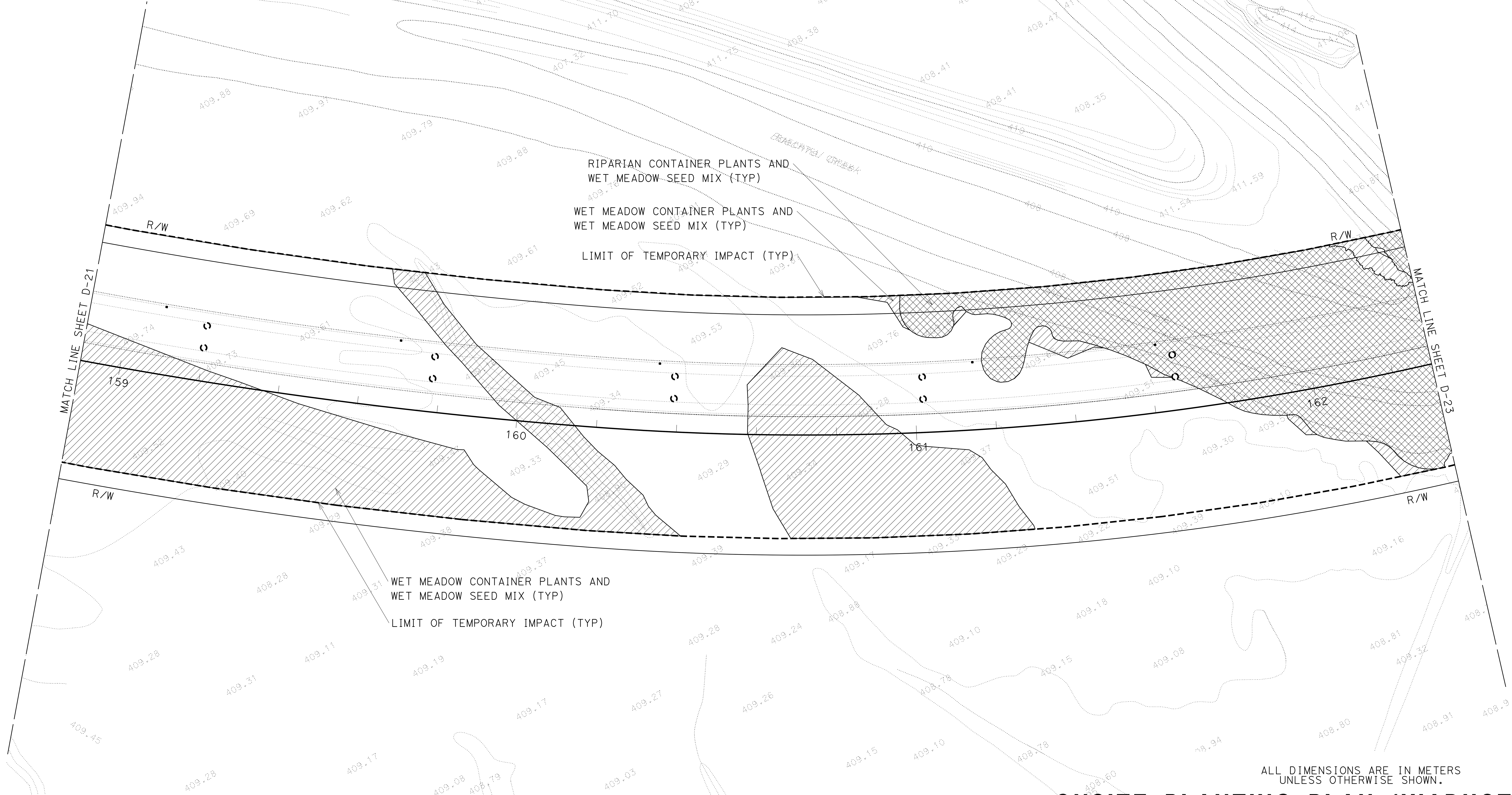

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

ONSITE PLANTING PLAN (VIADUCT)

SCALE 1:500

D-22

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans 03-LANDSCAPE ARCHITECTURE

SENIOR LANDSCAPE ARCHITECT	CALCULATED-DESIGNED BY	CHECKED BY	REVISED BY	DATE REVISED
T. CHRIS JOHNSON	JEFFREY PIETRZAK			

LAST REVISION 00-00-00 · DATE PLOTTED => 03-JAN-2012 · TIME PLOTTED => 13:05

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9		

LICENSED LANDSCAPE ARCHITECT

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Signature
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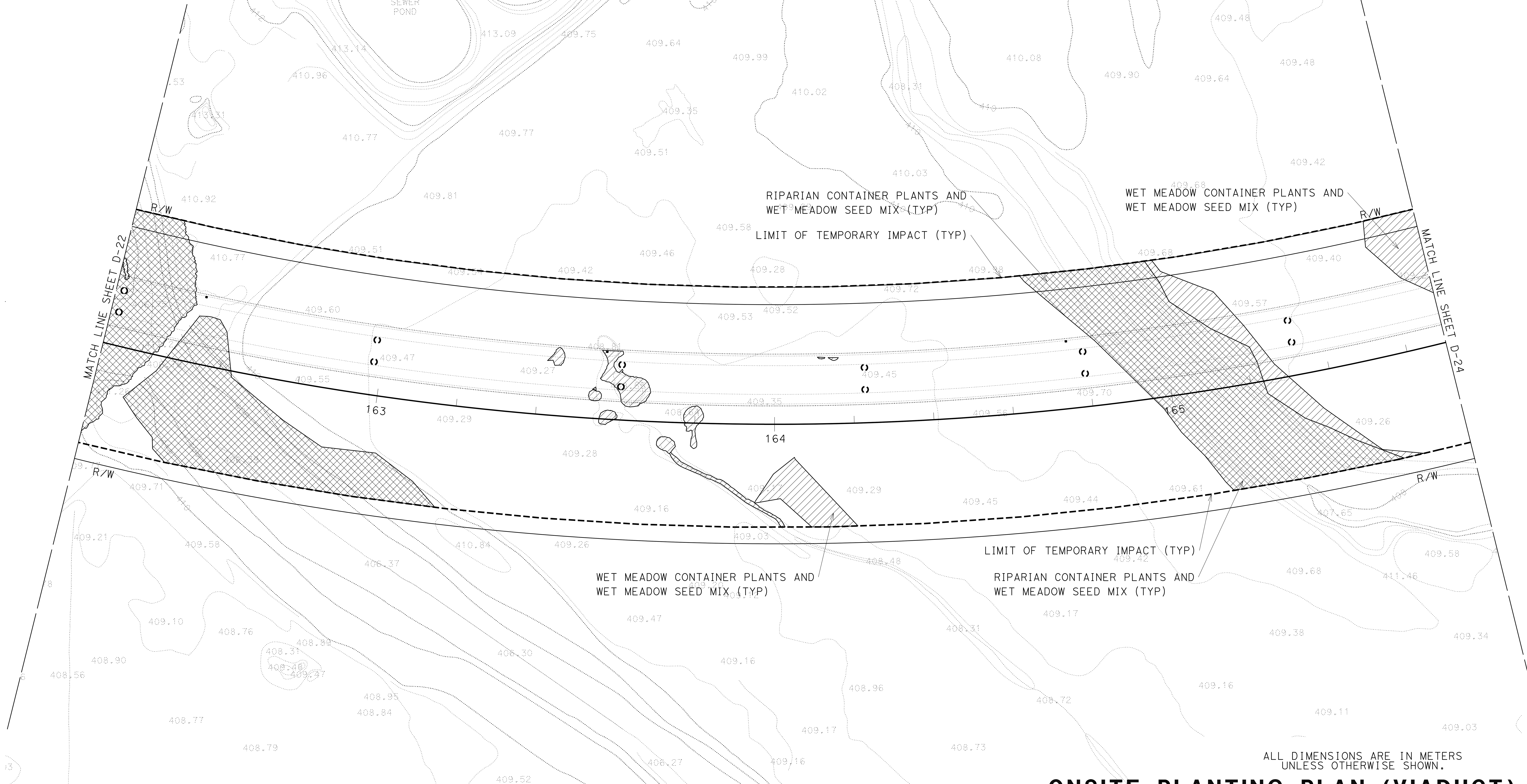

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

ONSITE PLANTING PLAN (VIADUCT)

SCALE 1:500

D-23

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
03-LANDSCAPE ARCHITECTURE

SENIOR LANDSCAPE ARCHITECT: T. CHRIS JOHNSON
CALCULATED-DESIGNED BY: JEFFREY PIETRZAK
CHECKED BY
REVISED BY
DATE REVISED

BORDER LAST REVISED 3/1/2007

RELATIVE BORDER SCALE IS IN MILLIMETERS 0 20 40 60 80

USERNAME => 19937
DGN FILE => 0100000005ge-onsiteplant023.dgn

CU 0381

EA 262001

LAST REVISION 00-00-00
DATE PLOTTED => 03-JAN-2012
TIME PLOTTED => 13:17

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9		

Caltrans Metric

LICENSED LANDSCAPE ARCHITECT

PLANS APPROVAL DATE

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

LICENSED LANDSCAPE ARCHITECT
Signature
Renewal Date
Date
STATE OF CALIFORNIA

NOTES:

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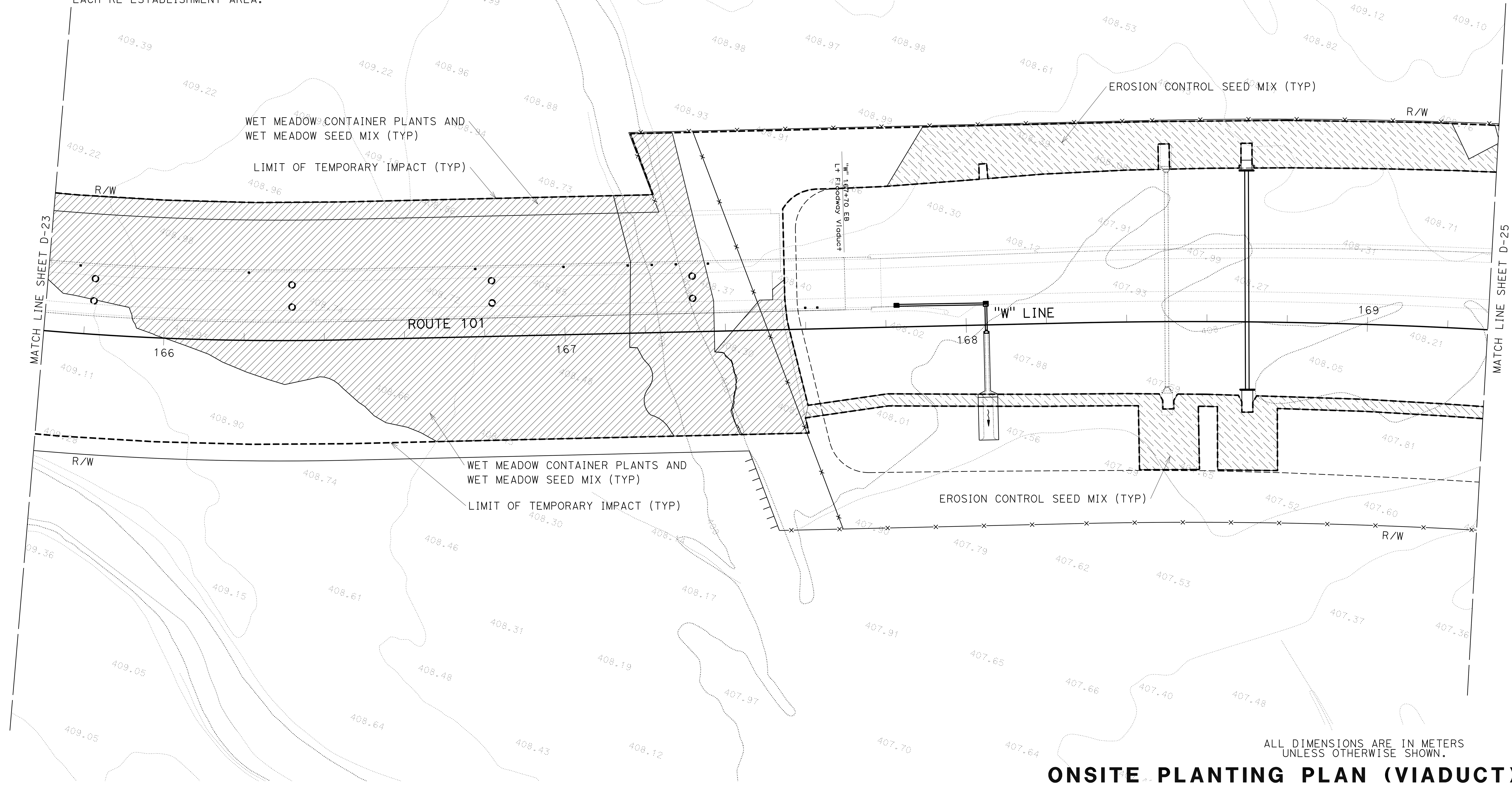

ALL DIMENSIONS ARE IN METERS
UNLESS OTHERWISE SHOWN.

ONSITE PLANTING PLAN (VIADUCT)

SCALE 1:500

D-24

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans 03-LANDSCAPE ARCHITECTURE

SENIOR LANDSCAPE ARCHITECT: T. CHRIS JOHNSON
CALCULATED-DESIGNED BY: JEFFREY PIETRZAK
CHECKED BY
REVISED BY
DATE REVISED

LAST REVISION 00-00-00 | DATE PLOTTED => 03-JAN-2012 | TIME PLOTTED => 13:32

BORDER LAST REVISED 3/1/2007

RELATIVE BORDER SCALE IS IN MILLIMETERS 0 20 40 60 80

USERNAME => 19937
DGN FILE => 0100000005ge-onsiteplant024.dgn

CU 0381 | EA 262001

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9		

LICENSED LANDSCAPE ARCHITECT

PLANS APPROVAL DATE

LICENSED LANDSCAPE ARCHITECT
Signature
Renewal Date
Date
STATE OF CALIFORNIA

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Caltrans Metric

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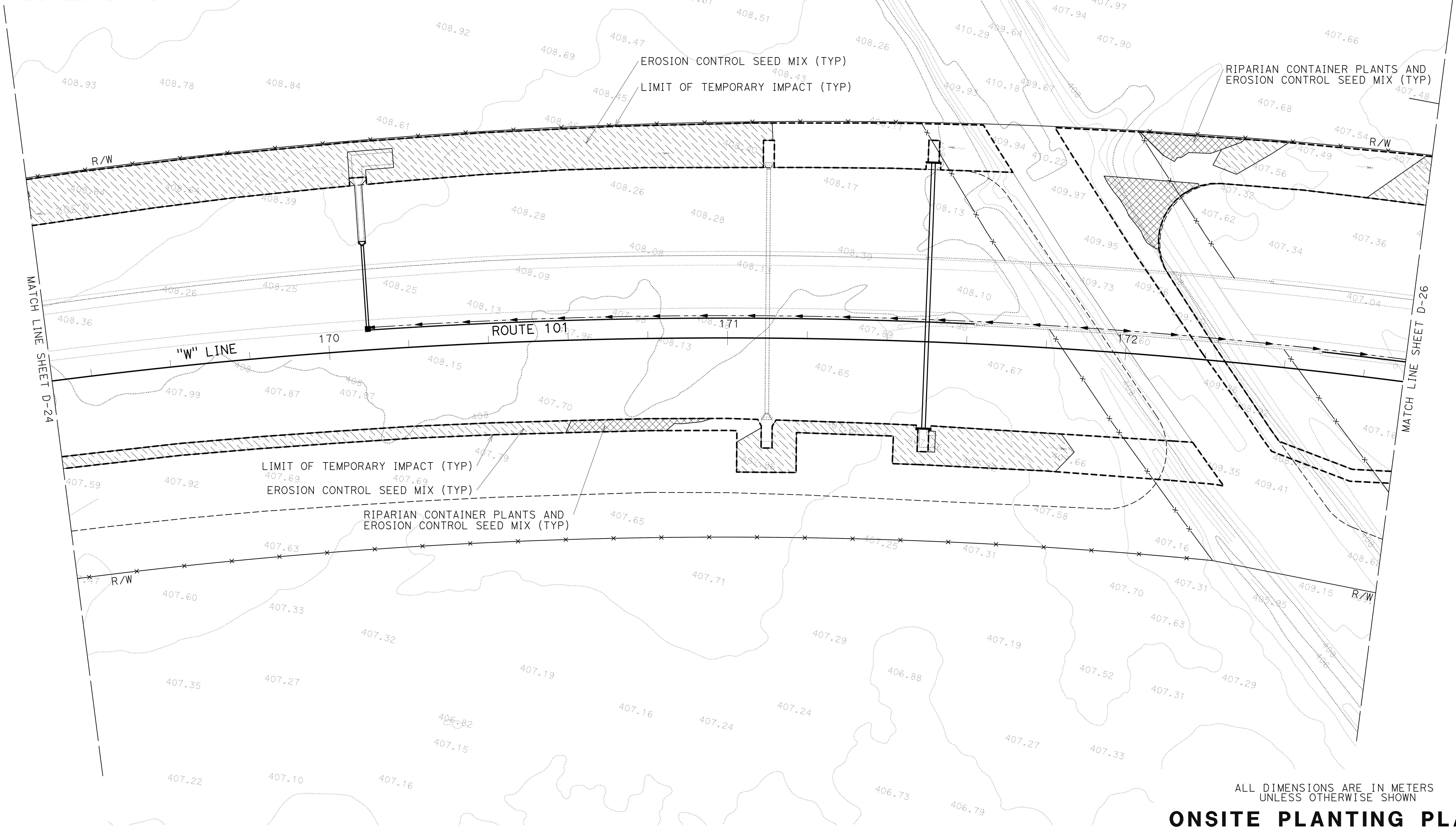

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

ONSITE PLANTING PLAN

SCALE 1:500

D-25

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans 03-LANDSCAPE ARCHITECTURE

SENIOR LANDSCAPE ARCHITECT: T. CHRIS JOHNSON

CALCULATED-DESIGNED BY: JEFFREY PIETRZAK

CHECKED BY

REVISED BY

DATE REVISED

LAST REVISION 00-00-00 | DATE PLOTTED => 03-JAN-2012 | TIME PLOTTED => 13:35

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9		

LICENSED LANDSCAPE ARCHITECT

PLANS APPROVAL DATE

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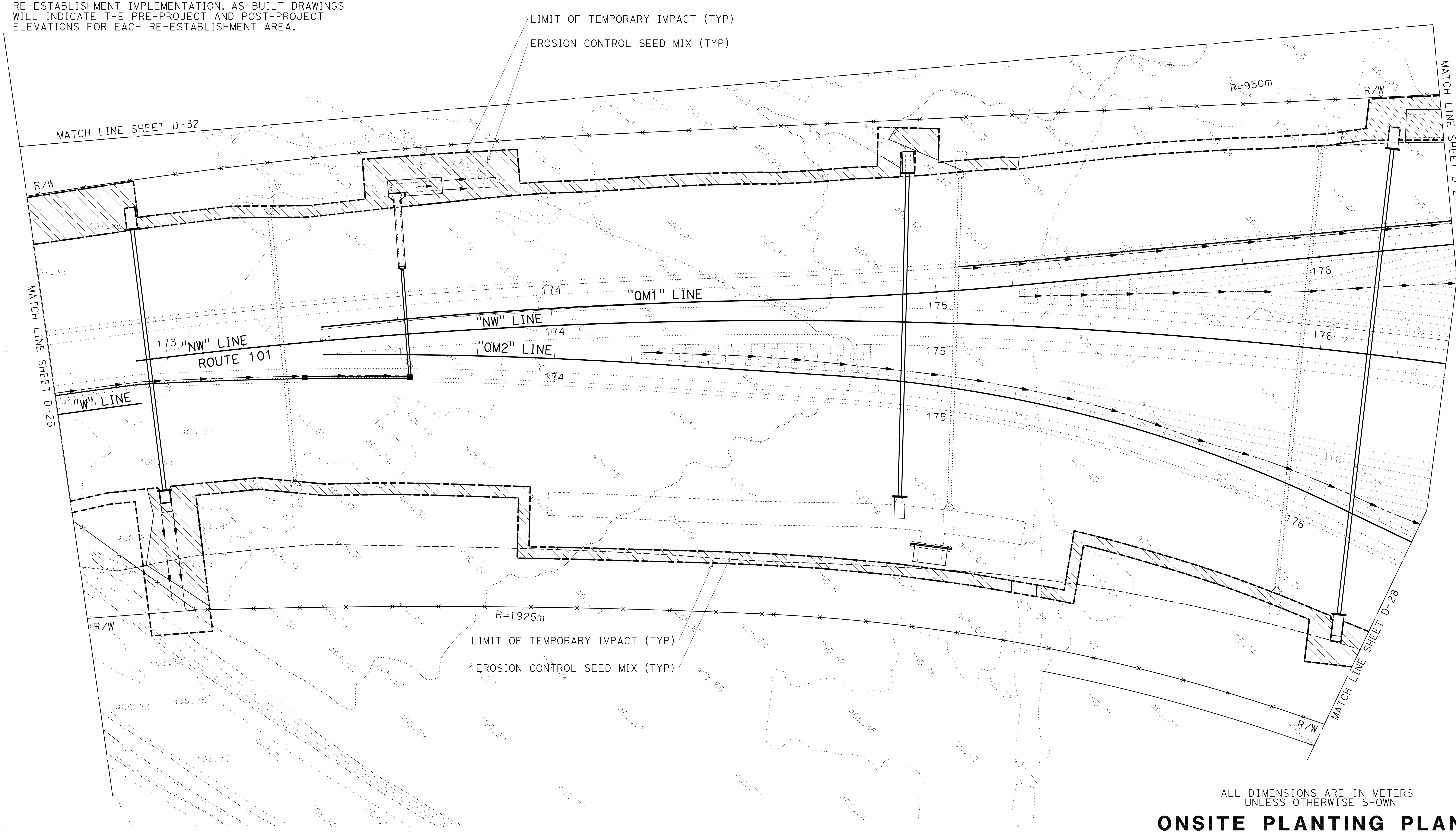

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

ONSITE PLANTING PLAN

SCALE 1:500

D-26

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

03-LANDSCAPE ARCHITECTURE

SENIOR LANDSCAPE ARCHITECT: T. CHRIS JOHNSON

CALCULATED-DESIGNED BY: JEFFREY PIETRZAK

CHECKED BY

REVISED BY

DATE REVISED

DATE PLOTTED => 03-JAN-2012
TIME PLOTTED => 13:37

LAST REVISION 00-00-00

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9		

Caltrans Metric

LICENSED LANDSCAPE ARCHITECT

PLANS APPROVAL DATE

LICENSED LANDSCAPE ARCHITECT
Signature
Renewal Date
Date
STATE OF CALIFORNIA

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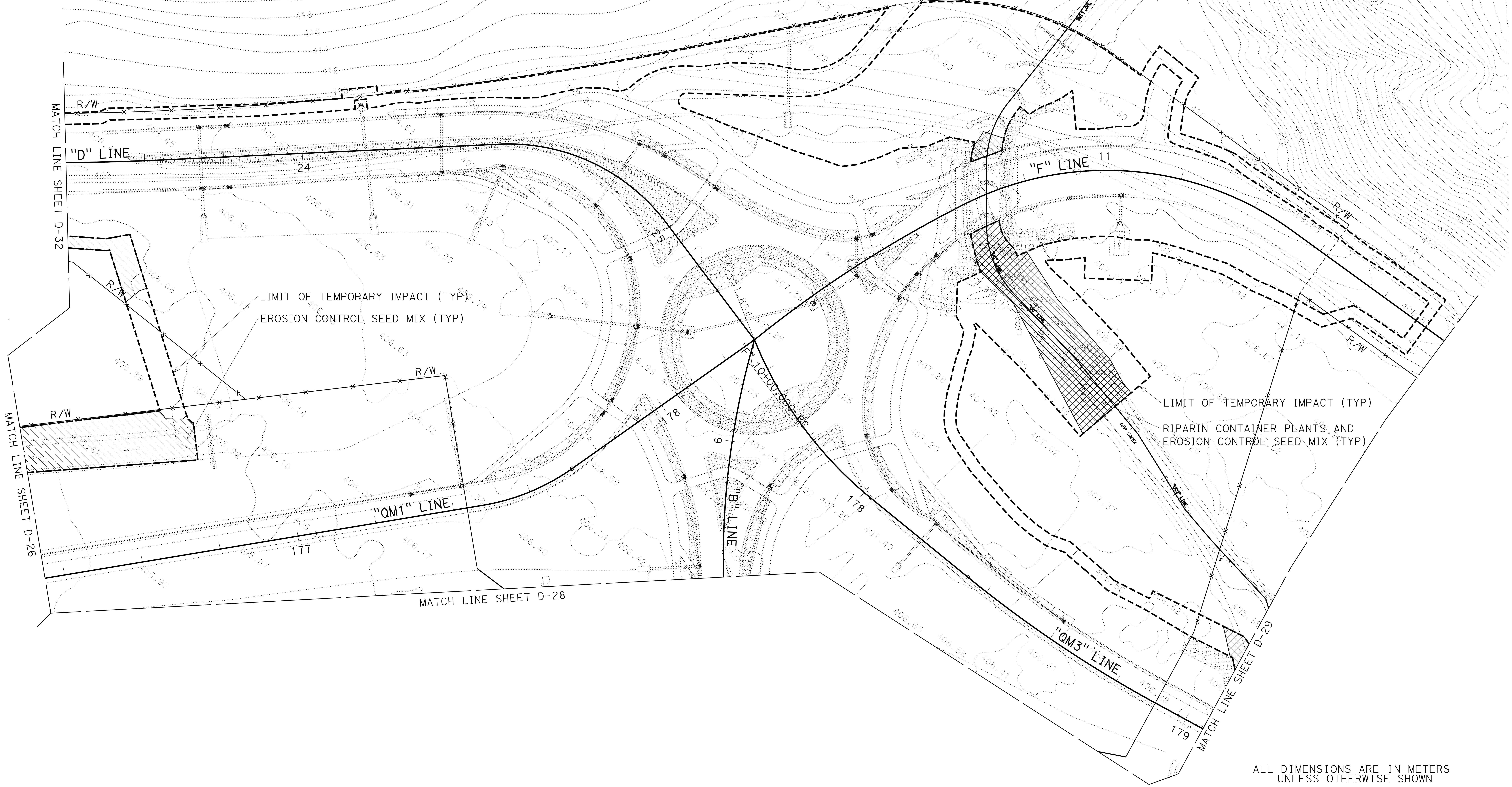

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

ONSITE PLANTING PLAN

SCALE 1:500

D-27

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
03-LANDSCAPE ARCHITECTURE

SENIOR LANDSCAPE ARCHITECT: T. CHRIS JOHNSON
CALCULATED-DESIGNED BY | CHECKED BY
JEFFREY PIETRZAK
REVISED BY | DATE REVISED

LAST REVISION 00-00-00
DATE PLOTTED => 03-JAN-2012
TIME PLOTTED => 13:39

BORDER LAST REVISED 3/1/2007

RELATIVE BORDER SCALE IS IN MILLIMETERS
0 20 40 60 80

USERNAME => 19937
DGN FILE => 0100000005ge-onsiteplant027.dgn

CU 0381

EA 262001

NOTES:

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Caltrans Metric

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9		

LICENSED LANDSCAPE ARCHITECT

PLANS APPROVAL DATE

LICENSED LANDSCAPE ARCHITECT Signature Renewal Date Date STATE OF CALIFORNIA

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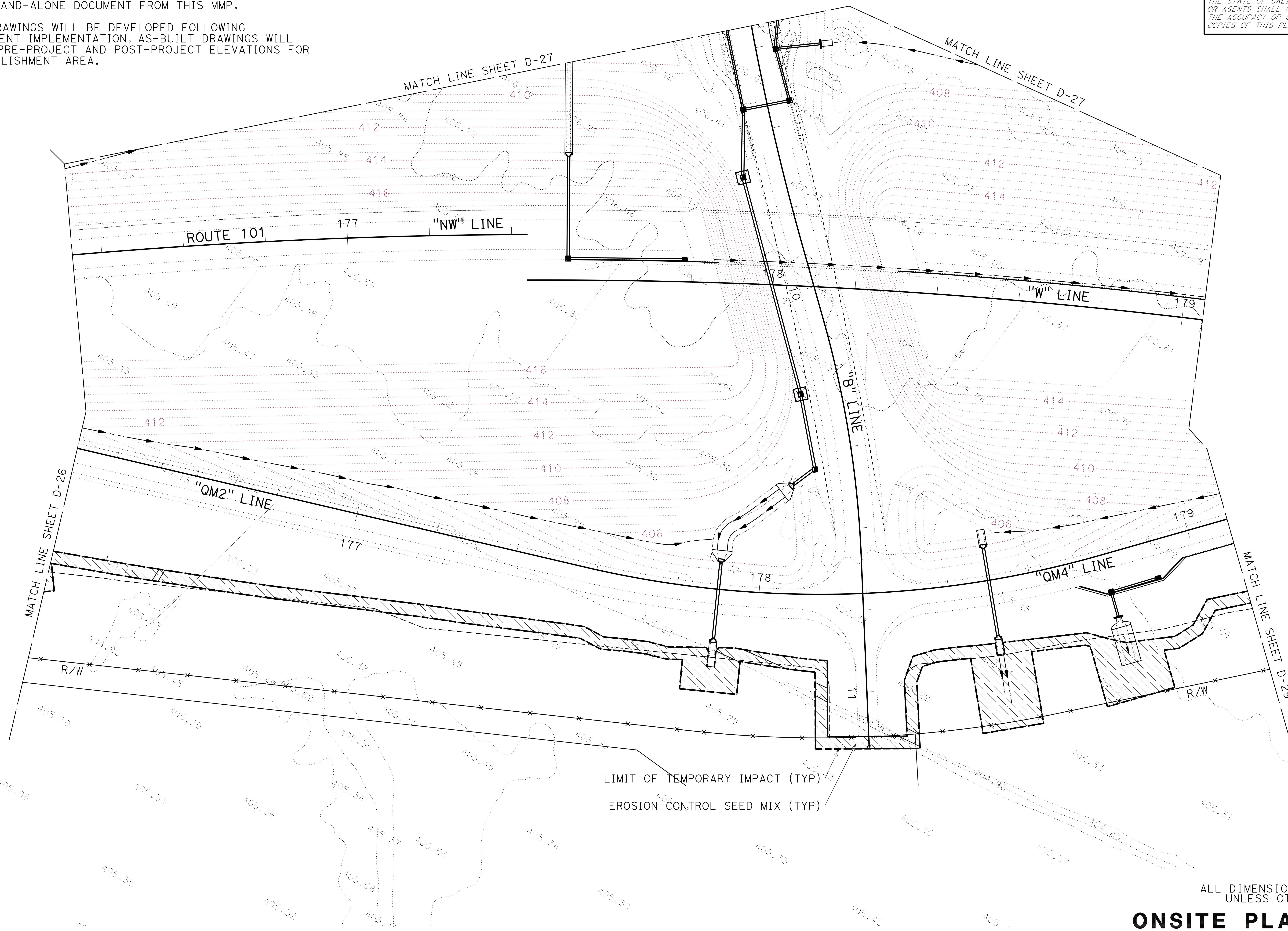

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

ONSITE PLANTING PLAN

SCALE 1:500

D-28

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans 03-LANDSCAPE ARCHITECTURE

SENIOR LANDSCAPE ARCHITECT T. CHRIS JOHNSON

CALCULATED-DESIGNED BY JEFFREY PIETRZAK

CHECKED BY

REVISED BY

DATE REVISED

DATE PLOTTED => 03-JAN-2012
TIME PLOTTED => 13:40

LAST REVISION 00-00-00

BORDER LAST REVISED 3/1/2007

RELATIVE BORDER SCALE IS IN MILLIMETERS 0 20 40 60 80

USERNAME => 19937
DGN FILE => 0100000005ge-onsiteplant028.dgn

CU 0381

EA 262001

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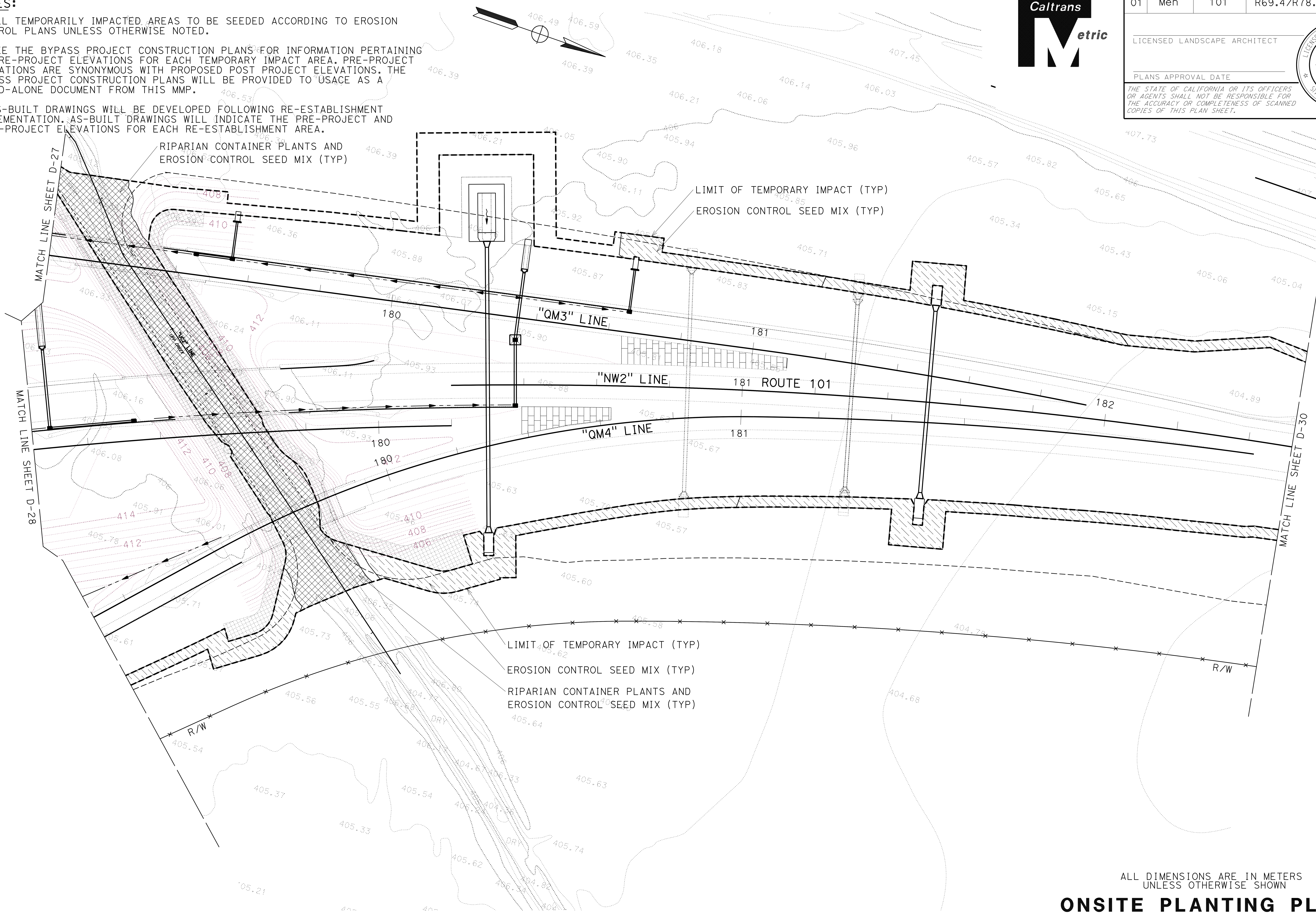

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9		

Caltrans Metric

LICENSED LANDSCAPE ARCHITECT

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LICENSED LANDSCAPE ARCHITECT — Signature — Renewal Date — Date — STATE OF CALIFORNIA

ALL DIMENSIONS ARE IN METERS
UNLESS OTHERWISE SHOWN

ONSITE PLANTING PLAN

SCALE 1:500

D-29

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
03-LANDSCAPE ARCHITECTURE

SENIOR LANDSCAPE ARCHITECT: T. CHRIS JOHNSON
CALCULATED-DESIGNED BY: JEFFREY PIETRZAK
CHECKED BY
REVISED BY
DATE REVISED

LAST REVISION 00-00-00
DATE PLOTTED => 03-JAN-2012
TIME PLOTTED => 14:01

BORDER LAST REVISED 3/1/2007

RELATIVE BORDER SCALE IS IN MILLIMETERS 0 20 40 60 80

USERNAME => 19937
DGN FILE => 0100000005ge-onsiteplant029.dgn

CU 0381

EA 262001

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9		

LICENSED LANDSCAPE ARCHITECT

PLANS APPROVAL DATE

LICENSED LANDSCAPE ARCHITECT
Signature
Renewal Date
Date
STATE OF CALIFORNIA

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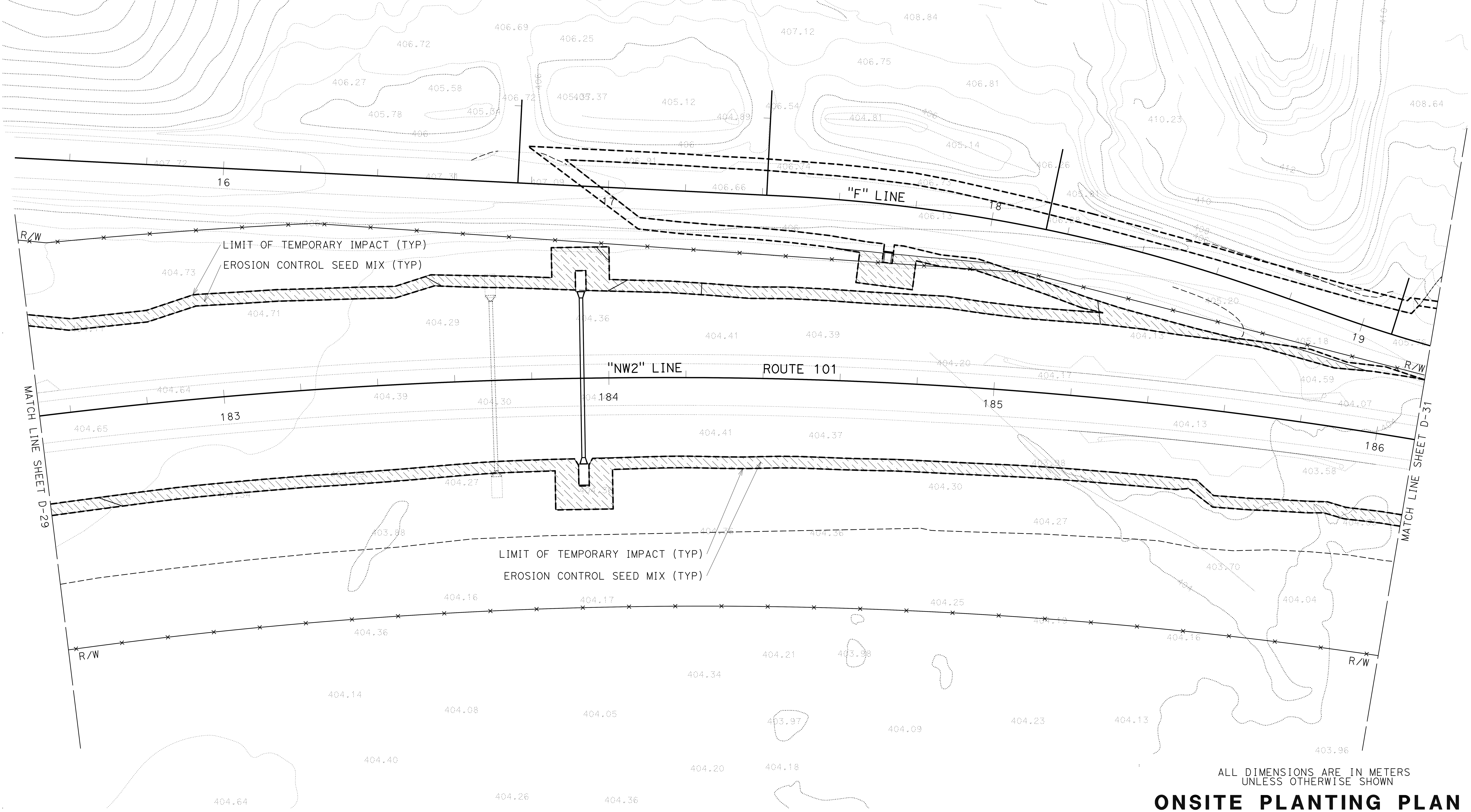

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

03-LANDSCAPE ARCHITECTURE

SENIOR LANDSCAPE ARCHITECT	T. CHRIS JOHNSON
CALCULATED-DESIGNED BY	JEFFREY PIETRZAK
CHECKED BY	
REVISED BY	
DATE REVISED	

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

ONSITE PLANTING PLAN

SCALE 1:500

D-30

LAST REVISION 00-00-00

DATE PLOTTED => 03-JAN-2012

TIME PLOTTED => 14:10

BORDER LAST REVISED 3/1/2007

RELATIVE BORDER SCALE IS IN MILLIMETERS

0 20 40 60 80

USERNAME => 19937

DGN FILE => 0100000005ge-onsiteplant030.dgn

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Caltrans Metric

LICENSED LANDSCAPE ARCHITECT

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LICENSED LANDSCAPE ARCHITECT
Signature
Renewal Date
Date
STATE OF CALIFORNIA

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

ONSITE PLANTING PLAN

SCALE 1:500

D-31

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans 03-LANDSCAPE ARCHITECTURE

SENIOR LANDSCAPE ARCHITECT: T. CHRIS JOHNSON
CALCULATED-DESIGNED BY: JEFFREY PIETRZAK
CHECKED BY
REVISED BY
DATE REVISED

DATE PLOTTED => 03-JAN-2012
TIME PLOTTED => 14:11
LAST REVISION 00-00-00

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
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LICENSED LANDSCAPE ARCHITECT

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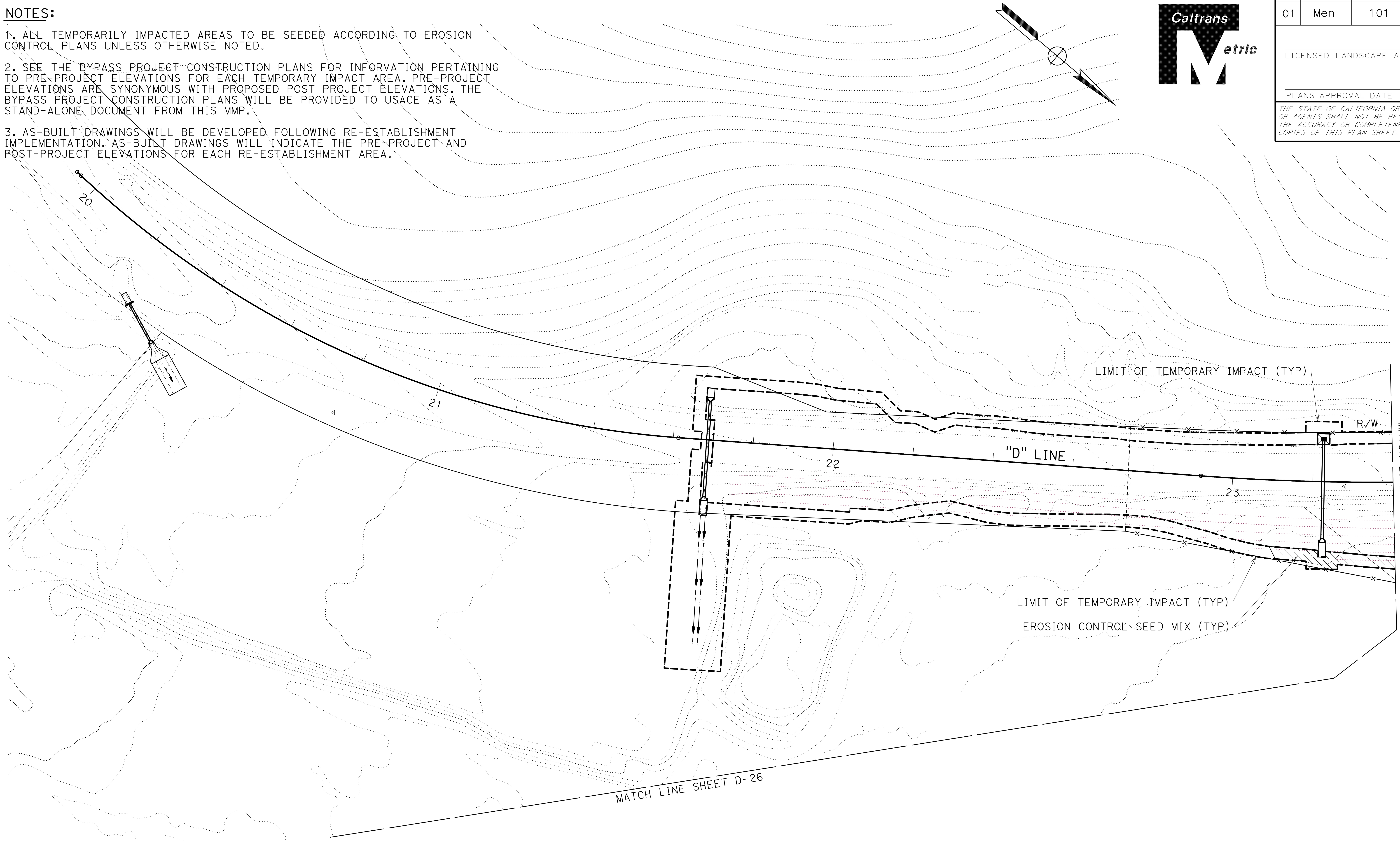

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

ONSITE PLANTING PLAN

SCALE 1:500

D-32

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans 03-LANDSCAPE ARCHITECTURE

SENIOR LANDSCAPE ARCHITECT: T. CHRIS JOHNSON

CALCULATED-DESIGNED BY: JEFFREY PIETRZAK

CHECKED BY

REVISED BY

DATE REVISED

LAST REVISION 00-00-00

DATE PLOTTED => 03-JAN-2012
TIME PLOTTED => 14:13

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	101	R69.4/R78.9		

Caltrans Metric

LICENSED LANDSCAPE ARCHITECT

PLANS APPROVAL DATE

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WET MEADOW CONTAINER PLANTS

SPECIES NAME		PLANT MATERIAL TYPE AND SIZE	PERCENT OF PLANTING MIX	WETLAND INDICATOR STATUS (REED 1988)
SCIENTIFIC	COMMON			
CAREX ATHROSTACHYA	SLENDER BEAK SEDGE	TREE BAND	5	FACW
CAREX DENSA	DENSE SEDGE	TREE BAND	10	OBL
CAREX NEBRASCENSIS	NEBRASKA SEDGE	TREE BAND	5	OBL
CAREX PRAEGRACILLIS	FIELD SEDGE	TREE BAND	5	FACW
CAREX SUBBRACTEATA	SMALL BRACT SEDGE	TREE BAND	5	FACW
CAREX TUMULICOLA	FOOTHILL SEDGE	TREE BAND	5	FAC
HORDEUM BRACHYANTHERUM VAR. BRACHYANTHERUM	MEADOW BARLEY	TREE BAND	10	FACW
JUNCUS BOLANDERI	BOLANDER'S RUSH	TREE BAND	5	OBL
JUNCUS EFFUSUS	SOFT RUSH	TREE BAND	10	OBL
JUNCUS BALTICUS	BALTIC RUSH	TREE BAND	10	OBL
JUNCUS XIPHIOIDES	IRIS-LEAVED RUSH	TREE BAND	10	UPL
LEYMUS TRITICOIDES	CREEPING RYEGRASS	TREE BAND	5	FAC

NOTE: PLANTING DENSITY FOR WET MEADOW CONTAINER PLANTS WILL BE 1.5 m ON CENTER.

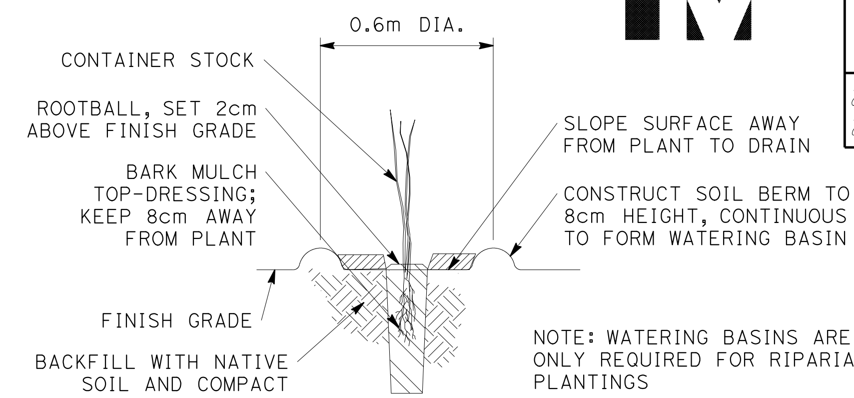
RIPARIAN CONTAINER PLANTS (ALSO CUTTINGS AND ACORNS)

VEGETATION STRATUM	SPECIES NAME		PLANT MATERIAL TYPE AND SIZE	PERCENT OF PLANTING MIX PER STRATUM	WETLAND INDICATOR STATUS (REED 1988)
	SCIENTIFIC	COMMON			
TREE	ACER NEGUNDO	BOX ELDER	TREEPOT	15	FACW
	ALNUS RHOMBIFOLIA	WHITE ALDER	TREEPOT	10	FACW
	FRAXINUS LATIFOLIA	OREGON ASH	TREEPOT	15	FACW
	POPULUS FREMONTII SSP. FREMONTII	FREMONT COTTONWOOD	TREEPOT, CUTTING	10	FACW
	QUERCUS GARRYANA	OREGON WHITE OAK	TREEPOT, ACORN	20	UPL
	QUERCUS LOBATA	VALLEY OAK	TREEPOT, ACORN	20	FAC
	SALIX LAEVIGATA	RED WILLOW	TREEPOT, CUTTING	10	FAC
	SALIX LASIOLEPIS	ARROYO WILLOW	TREEPOT, CUTTING	10	FACW
SHRUB	CORNUS SERICEA	RED-TWIG DOGWOOD	TREEPOT	10	FACW
	ROSA CALIFORNICA	CALIFORNIA ROSE	1 GALLON	25	FAC
	RIBES SANGUINEUM	RED-FLOWERING CURRANT	1 GALLON	10	UPL
	RUBUS LEUCODERMIS	WHITE BARK RASPBERRY	1 GALLON	10	FAC
	RUBUS PARVIFLORUS	THIMBLEBERRY	1 GALLON	10	FAC
	RUBUS SPECTABILIS	SALMONBERRY	1 GALLON	10	FAC+
	RUBUS URSINUS	WILD BLACKBERRY	1 GALLON	10	FACW
	SAMBUCUS MEXICANA	BLUE ELDERBERRY	TREEPOT	15	FAC
	VITIS CALIFORNICA	WILD GRAPE	1 GALLON	10	FACU

NOTE: PLANTING DENSITY FOR RIPARIAN CONTAINER PLANTS WILL BE 3 m ON CENTER.

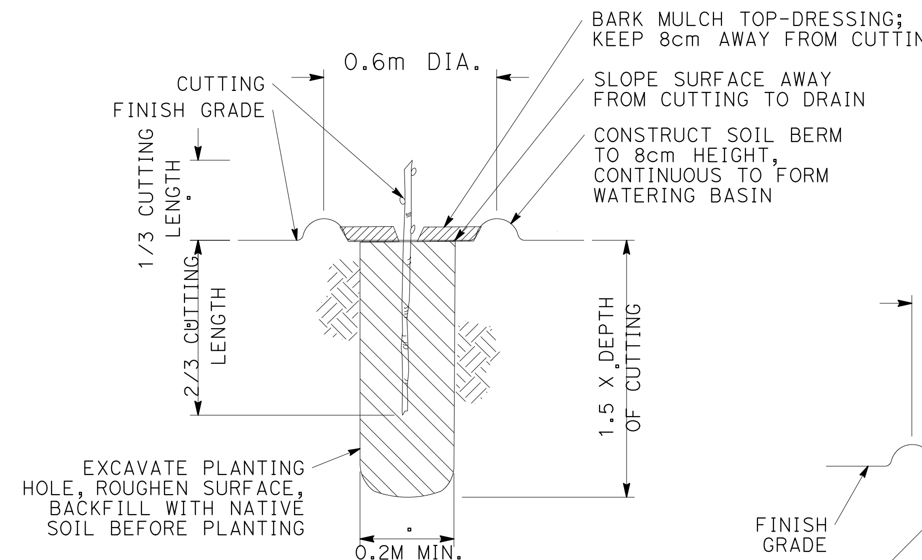
WET MEADOW SEED MIX

SPECIES NAME		WETLAND INDICATOR STATUS (REED 1988)	APPLICATION RATE (KILOGRAMS PER LIVE SEED/HACTARE)
SCIENTIFIC	COMMON		
AGROSTIS EXARATA	SPIKE BENTGRASS	FAC	1.1
ALOPECURUS AEQUAILIS	SHORT-AWNED FOXTAIL	OBL	1.1
ALOPECURUS SACCATUS	PACIFIC FOXTAIL	OBL	4.5
CAREX DENSA	DENSE SEDGE	OBL	1.1
CAREX NEBRASCENSIS	NEBRASKA SEDGE	OBL	1.1
DANTHONIA CALIFORNICA	CALIFORNIA OATGRASS	FACW	2.2
DESCHAMPSIA DANTHONIODES	ANNUAL HAIRGRASS	FACW	2.2
EUTHAMIA OCCIDENTALIS	WESTERN GOLDENROD	OBL	2.2
HORDEUM BRACHYANTHERUM SSP. CALIFORNICUM	CALIFORNIA BARLEY	FACW	13.4
JUNCUS BOLANDERI	BOLANDER'S RUSH	OBL	2.2
JUNCUS EFFUSUS	BOG RUSH	FACW	1.1
JUNCUS PATENS	SPREADING RUSH	OBL	1.1
JUNCUS XIPHIOIDES	IRIS-LEAVED RUSH	OBL	2.2
LASTHENIA GLABERRIMA	SMOOTH GOLDFIELDS	OBL	2.2
LEYMUS TRITICOIDES	CREEPING WILDRYE	FAC	2.2
		TOTAL	39.9



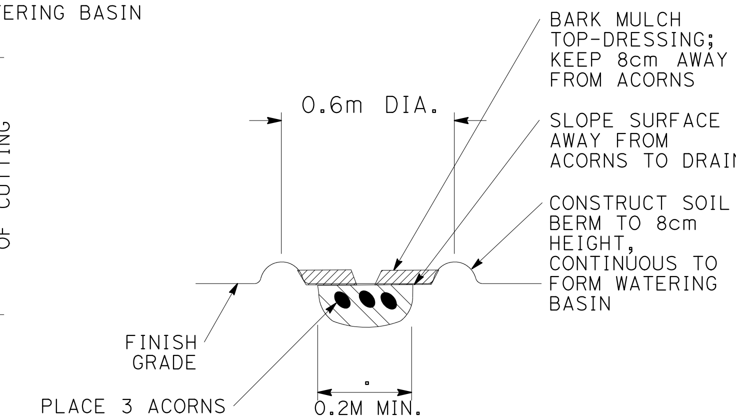
SECTION

CONTAINER PLANTING



SECTION

CUTTING



SECTION

ACORN

EROSION CONTROL/UPLAND SEED MIX

SPECIES NAME		WETLAND INDICATOR STATUS (REED 1988)	APPLICATION RATE (KILOGRAMS PER LIVE SEED/HACTARE)
SCIENTFIC	COMMON		
ACHILLEA MILLEFOLIUM	COMMON YARROW	FACU	3.4
BROMUS CARINATUS VAR. CARINATUS	CALIFORNIA BROME	UPL	10.1
CLARKIA PURPUREA SSP. QUADRIVULNERA	FOUR-SPOT	UPL	1.1
DANTHONIA CALIFORNICA	CALIFORNIA OATGRASS	FACW	1.1
ELYMUS GLAUCUS SSP. GLAUCUS	BLUE WILDRYE	FACU	5.6
ESCHSCHOLZIA CALIFORNICA	CALIFORNIA POPPY	UPL	1.1
FESTUCA CALIFORNICA	CALIFORNIA FESCUE	FACU	3.4
HORDEUM BRACHYANTHERUM SSP. CALIFORNICUM	CALIFORNIA BARLEY	FACW	10.1
LOTUS PURSHIANUS VAR. PURSHIANUS	SPANISH LOTUS	UPL	4.5
LUPINUS BICOLOR	MINIATURE LUPINE	UPL	5.6
NASSELLA PULCHRA	PURPLE NEEDLEGRASS	UPL	10.1
		TOTAL	56.1

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

ONSITE PLANTING PROGRAM AND DETAILS

NOT TO SCALE

D-33

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans 03-LANDSCAPE ARCHITECTURE

SENIOR LANDSCAPE ARCHITECT: T. CHRIS JOHNSON

CALCULATED-DESIGNED BY / CHECKED BY

JEFFREY PIETRZAK

REVISED BY / DATE REVISED

LAST REVISION 00-00-00 | DATE PLOTTED => 09-JAN-2012 | TIME PLOTTED => 16:17

Appendix M
Wetland Inundation Mapping for Onsite Mitigation Areas

K:\PROJECTS_1\CALTRANS\00543_09_WILLITS_FROM_URS\MAPDOC\BASELINE\CHAPTER_7\APPENDIX_7A_HYDROLOGY.MXD DS (06-29-11)

Offsite Mitigation Parcel

Project Bypass Footprint

Permanent Impact Area
Temporary Impact Area

Wetlands

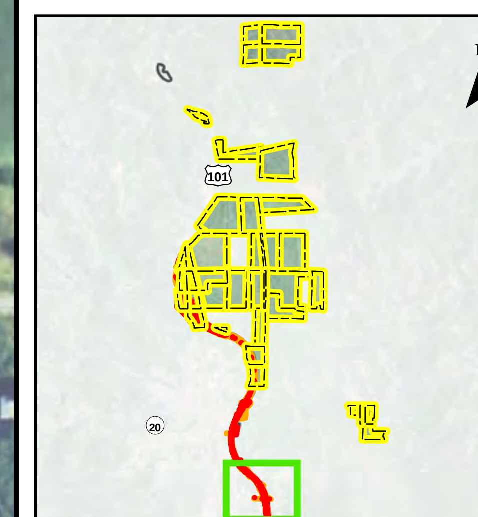
Jurisdictional Wet Meadow
Other Wetland Types

Inundation Duration

1 Month
3 Months
2 Months
4 Months

Depth Points

December 2010
February 2011
January 2011
March 2011



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Sheet M-1

Wetland Inundation Extent and Duration of Ponding Willits Bypass Project

Offsite Mitigation Parcel

Project Bypass Footprint

Permanent Impact Area

Temporary Impact Area

Wetlands

Jurisdictional Wet Meadow

Other Wetland Types

Inundation Duration

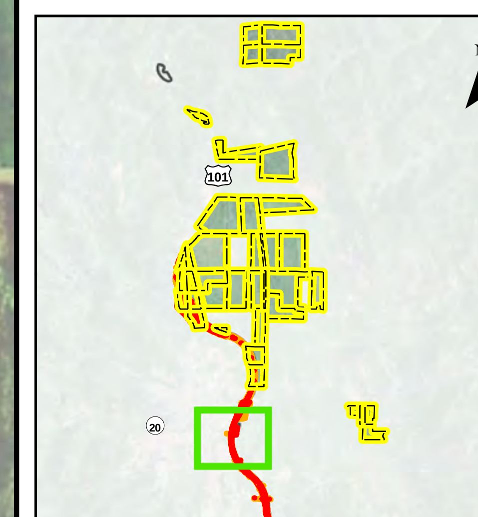
1 Month | 3 Months

2 Months | 4 Months

Depth Points

December 2010 | February 2011

January 2011 | March 2011



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Sheet M-2

Wetland Inundation Extent and Duration of Ponding Willits Bypass Project

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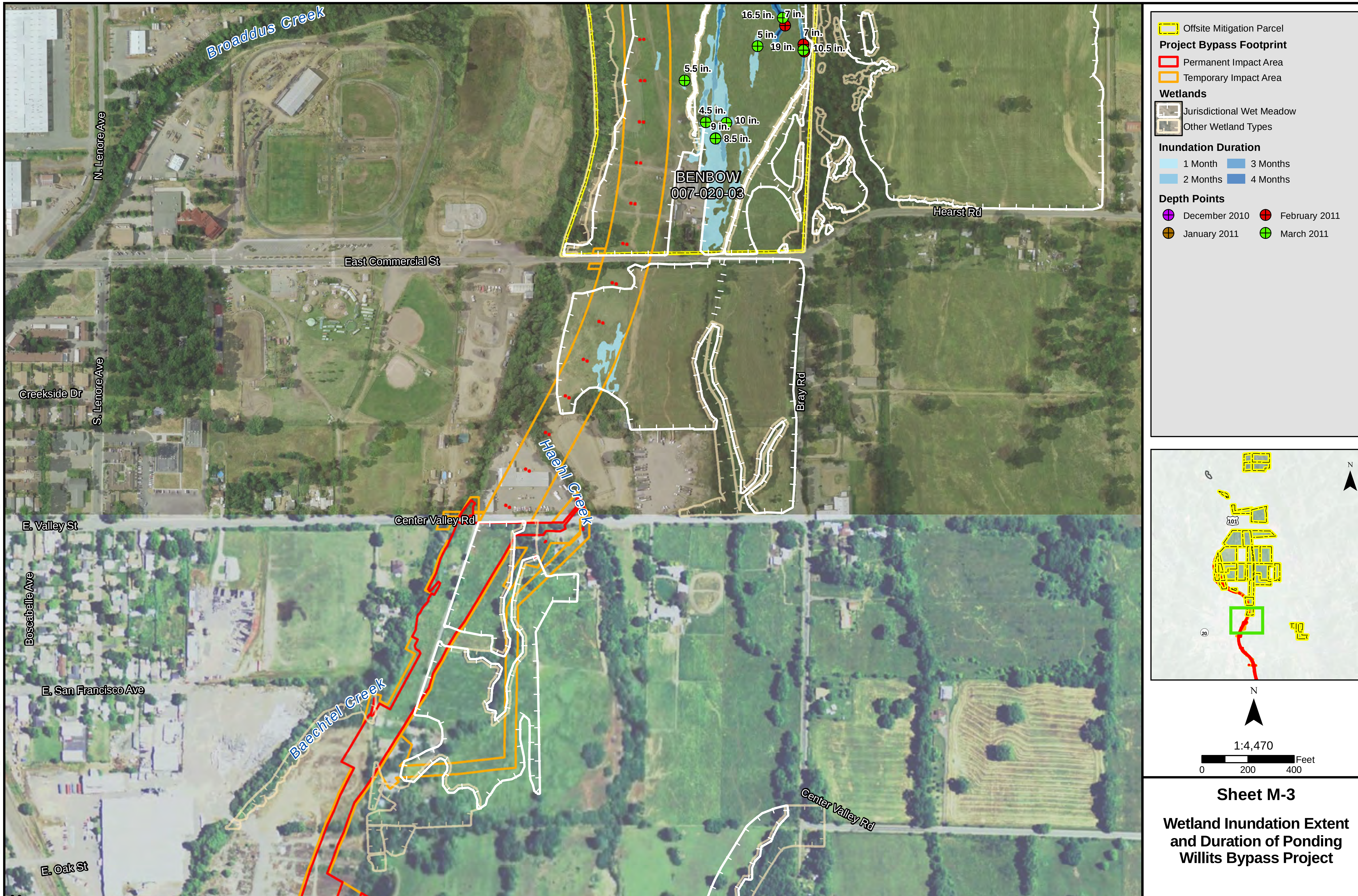

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Sheet M-3

Wetland Inundation Extent and Duration of Ponding Willits Bypass Project

Offsite Mitigation Parcel

Project Bypass Footprint

Permanent Impact Area

Temporary Impact Area

Wetlands

Jurisdictional Wet Meadow

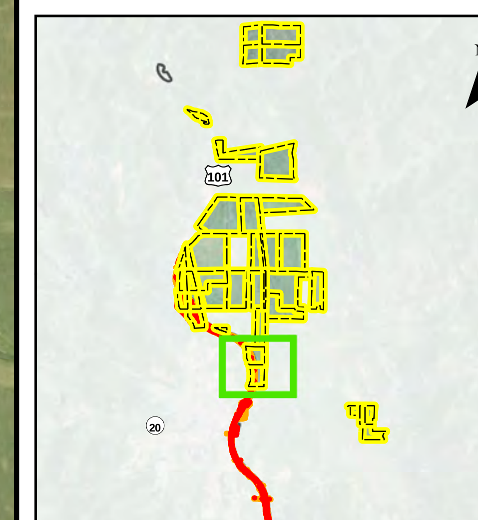
Other Wetland Types

Inundation Duration

1 Month
3 Months
2 Months
4 Months

Depth Points

December 2010
February 2011
January 2011
March 2011



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Feet
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Sheet M-4

Wetland Inundation Extent and Duration of Ponding Willits Bypass Project

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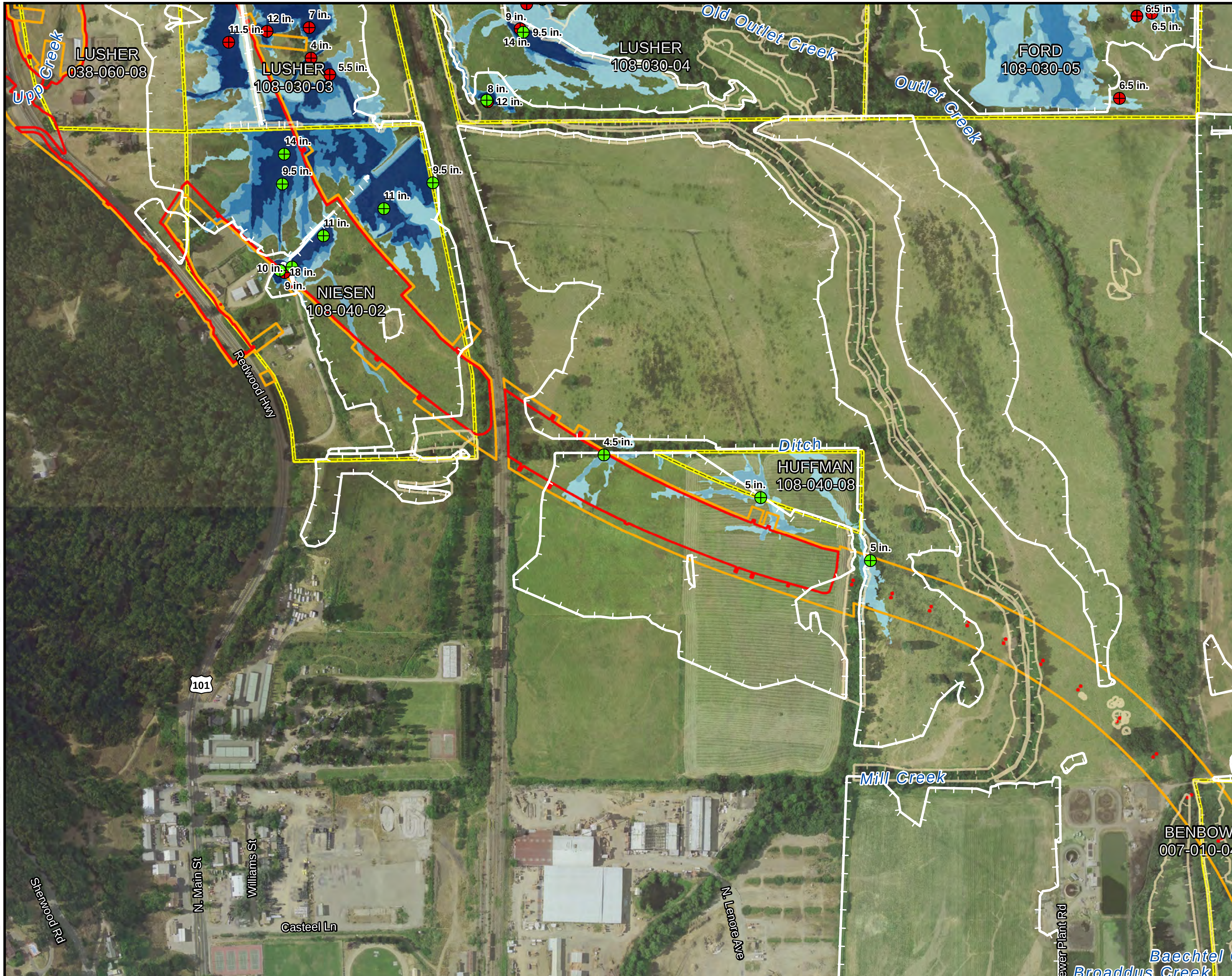


Offsite Mitigation Parcel

Project Bypass Footprint

Permanent Impact Area

Temporary Impact Area

Wetlands

Jurisdictional Wet Meadow

Other Wetland Types

Inundation Duration

1 Month

2 Months

3 Months

4 Months

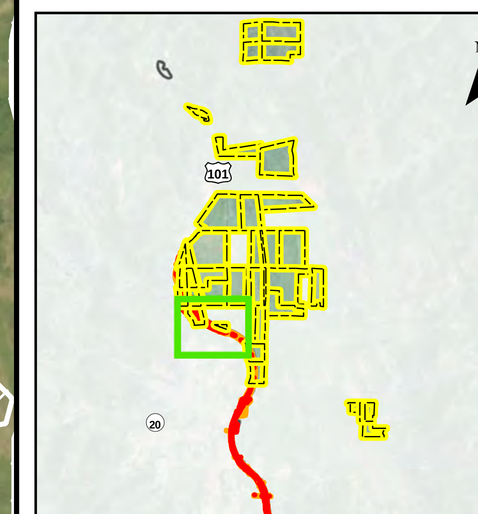
Depth Points

December 2010

January 2011

February 2011

March 2011



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Sheet M-5

Wetland Inundation Extent and Duration of Ponding Willits Bypass Project

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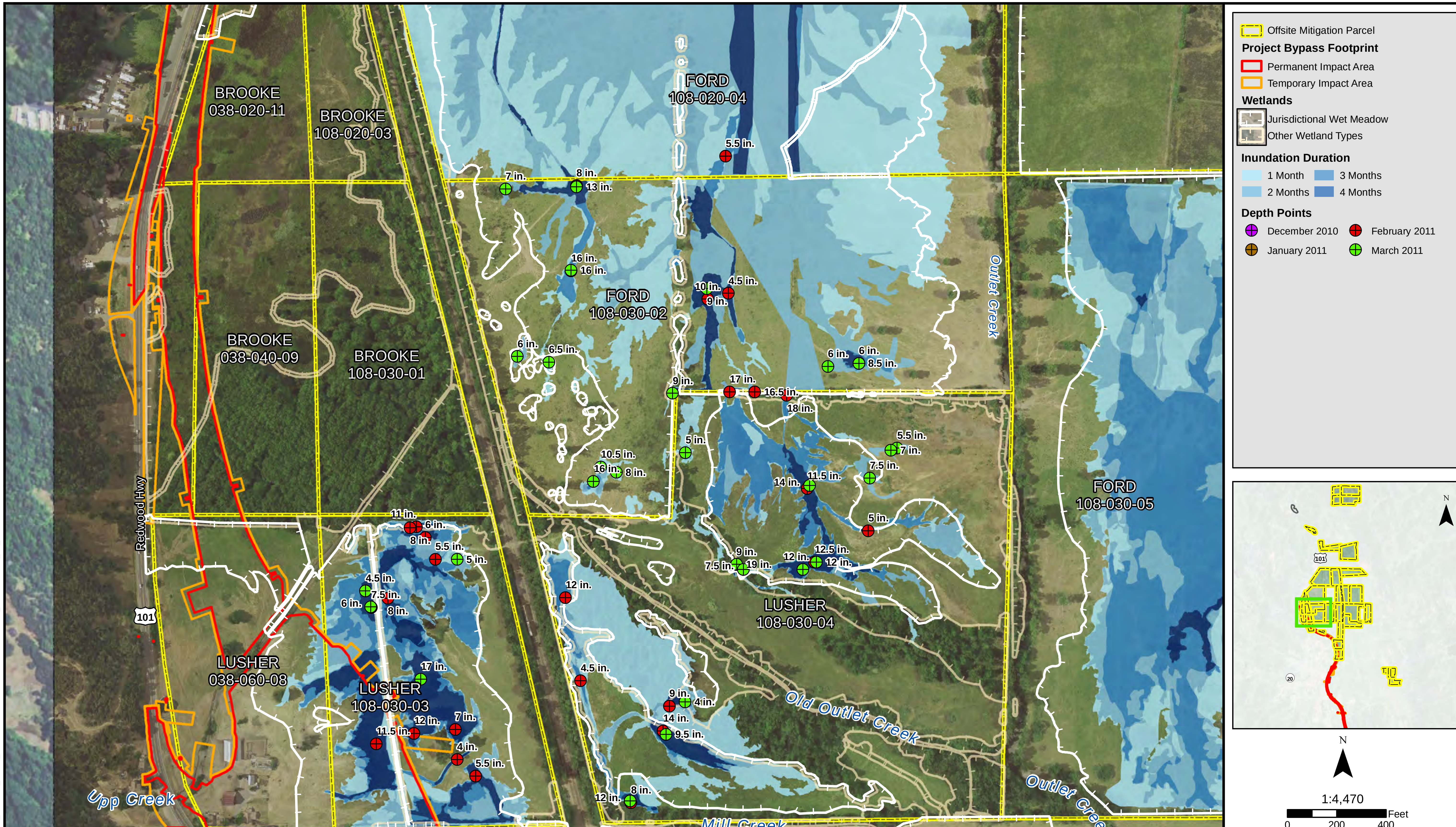

Sheet M-6

Wetland Inundation Extent and Duration of Ponding Willits Bypass Project

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Appendix N
Wetland Inundation Mapping for Offsite Mitigation Areas

Sheet N-1

Wetland Inundation Extent and Duration of Ponding Willits Bypass Project

BENBOW

007-010-04

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Offsite Mitigation Parcel

Project Bypass Footprint

Permanent Impact Area

Temporary Impact Area

Wetlands

Jurisdictional Wet Meadow

Other Wetland Types

Inundation Duration

1 Month

3 Months

2 Months

4 Months

Depth Points

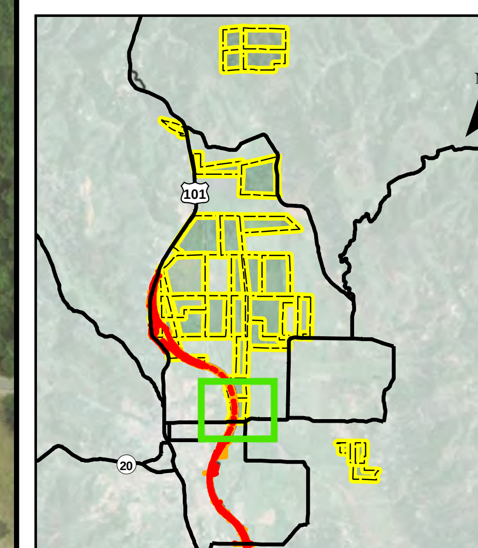
December 2010

February 2011

January 2011

March 2011

Depth is shown in inches.



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Sheet N-2

Wetland Inundation Extent and Duration of Ponding Willits Bypass Project

BENBOW

007-020-03

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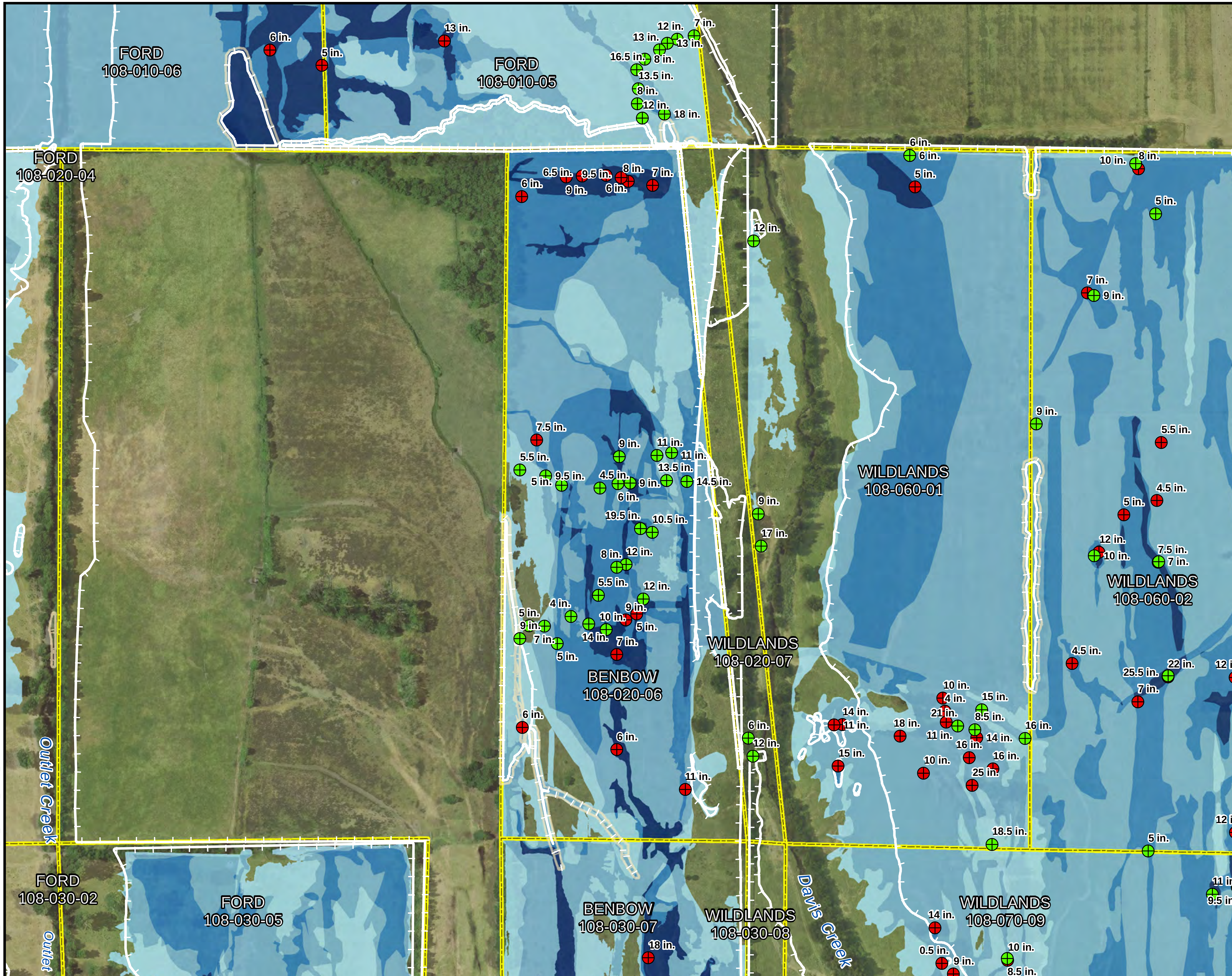


Offsite Mitigation Parcel

Project Bypass Footprint

Permanent Impact Area

Temporary Impact Area

Wetlands

Jurisdictional Wet Meadow

Other Wetland Types

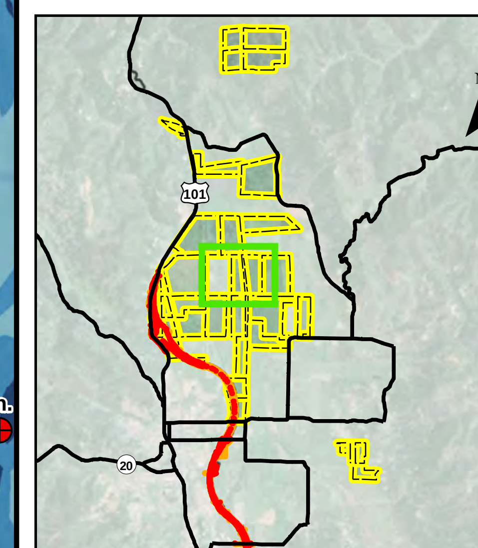
Inundation Duration

1 Month
3 Months
2 Months
4 Months

Depth Points

December 2010
February 2011
January 2011
March 2011

Depth is shown in inches.



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Sheet N-3

Wetland Inundation Extent and Duration of Ponding Willits Bypass Project

BENBOW

108-020-06

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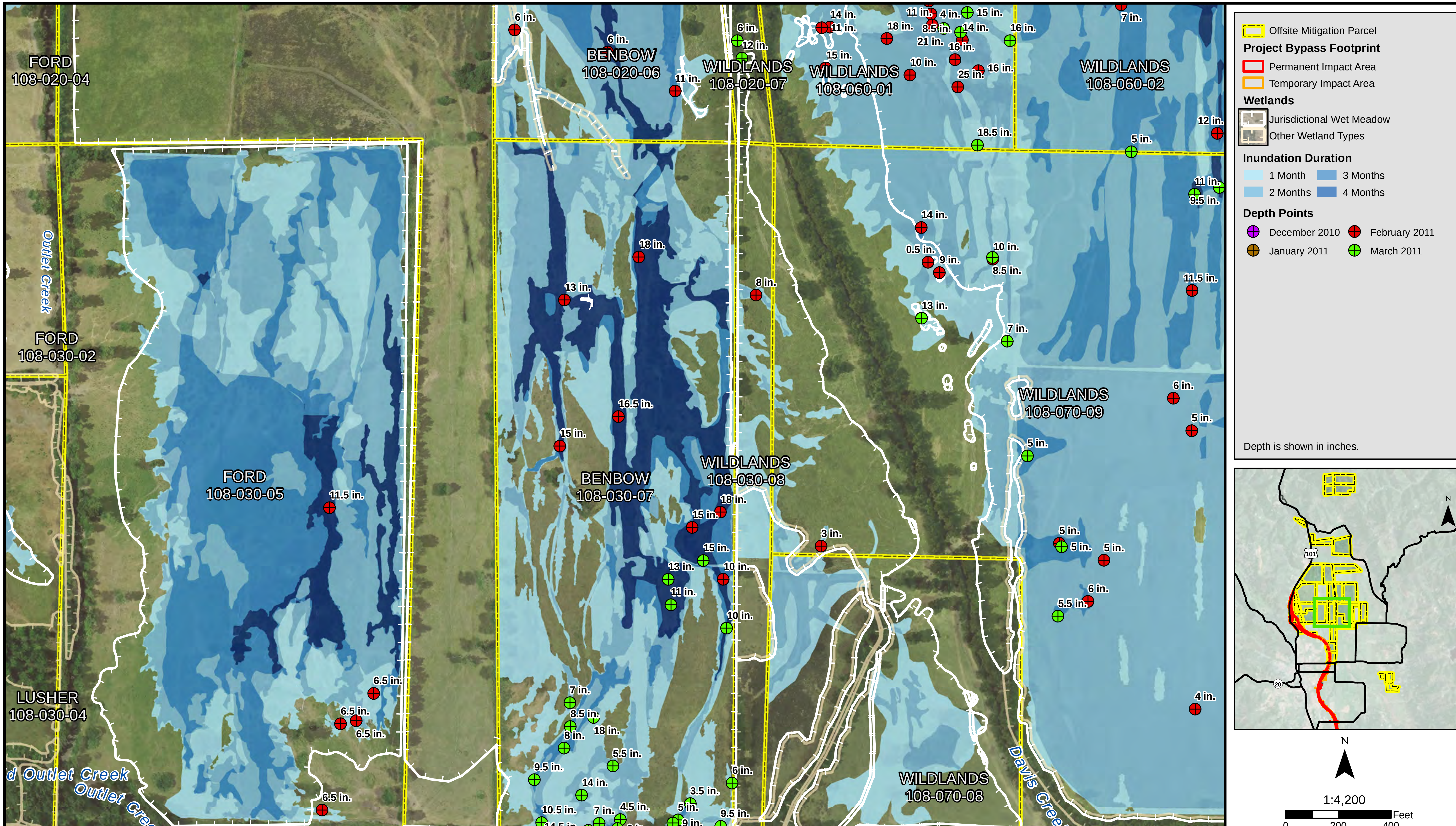

Sheet N-4

Wetland Inundation Extent and Duration of Ponding
Willits Bypass Project
BENBOW
108-030-07

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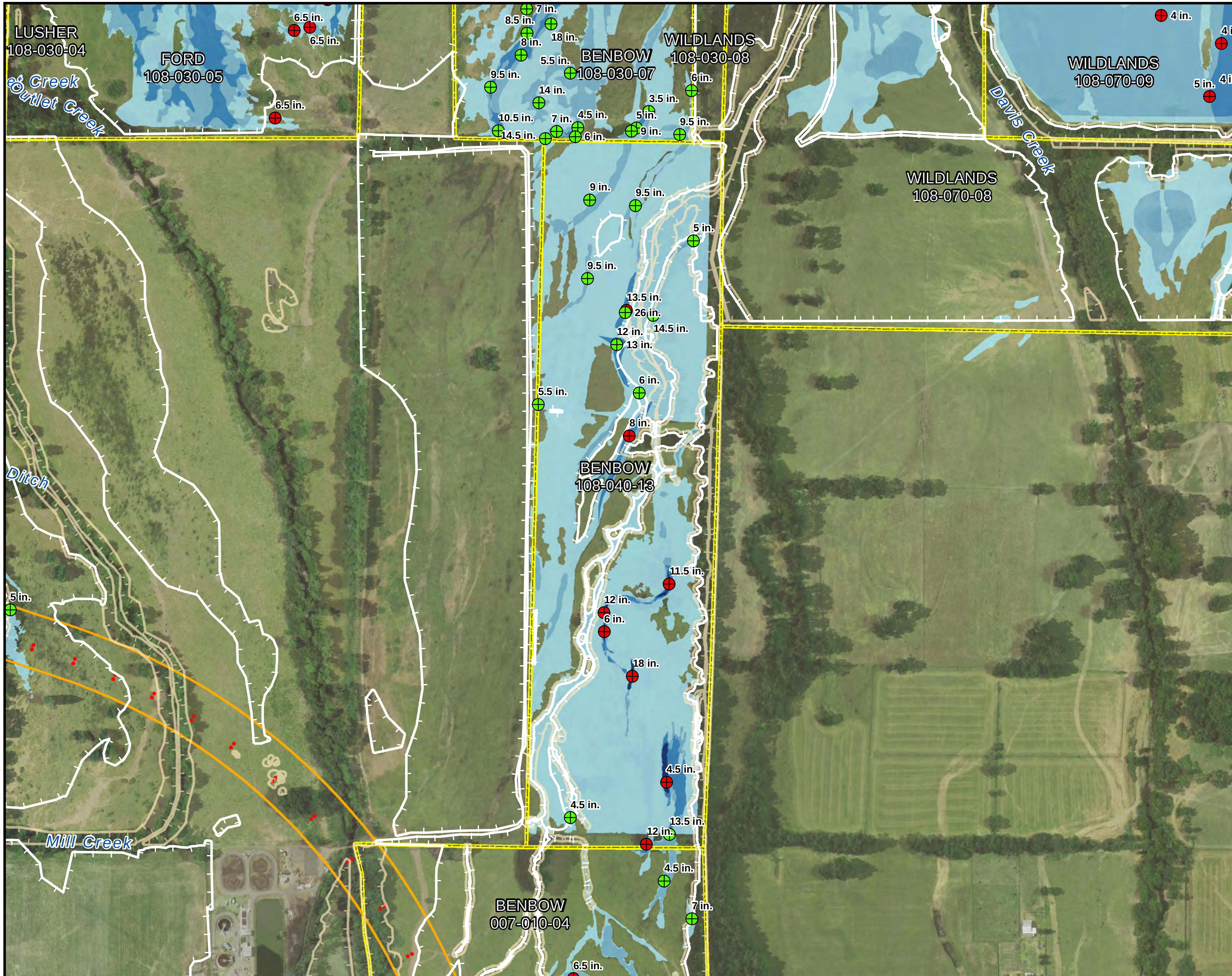


Offsite Mitigation Parcel

Project Bypass Footprint

Permanent Impact Area

Temporary Impact Area

Wetlands

Jurisdictional Wet Meadow

Other Wetland Types

Inundation Duration

1 Month

2 Months

3 Months

4 Months

Depth Points

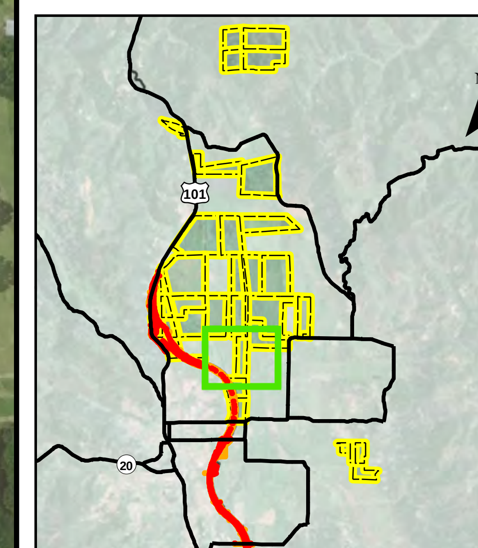
December 2010

January 2011

February 2011

March 2011

Depth is shown in inches.



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Sheet N-5

Wetland Inundation Extent and Duration of Ponding
Willits Bypass Project
BENBOW
108-040-13

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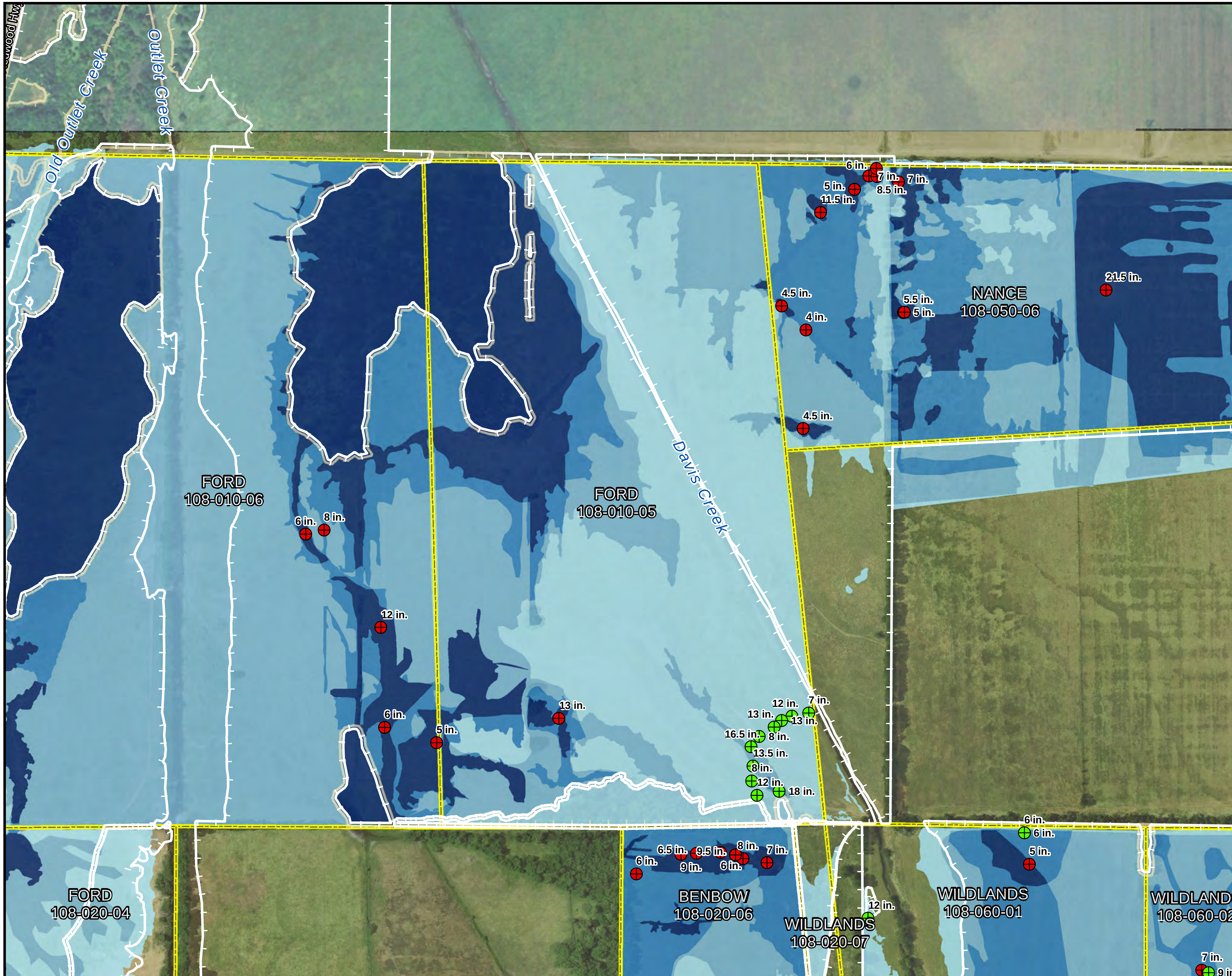


Offsite Mitigation Parcel

Project Bypass Footprint

Permanent Impact Area

Temporary Impact Area

Wetlands

Jurisdictional Wet Meadow

Other Wetland Types

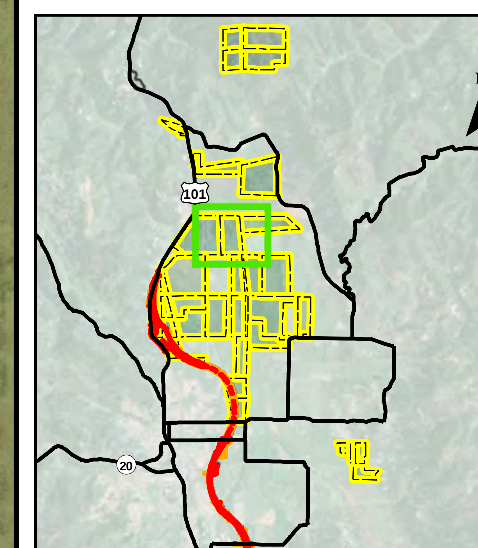
Inundation Duration

1 Month
3 Months
2 Months
4 Months

Depth Points

December 2010
February 2011
January 2011
March 2011

Depth is shown in inches.



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Sheet N-6

Wetland Inundation Extent and Duration of Ponding Willits Bypass Project

FORD

108-010-05

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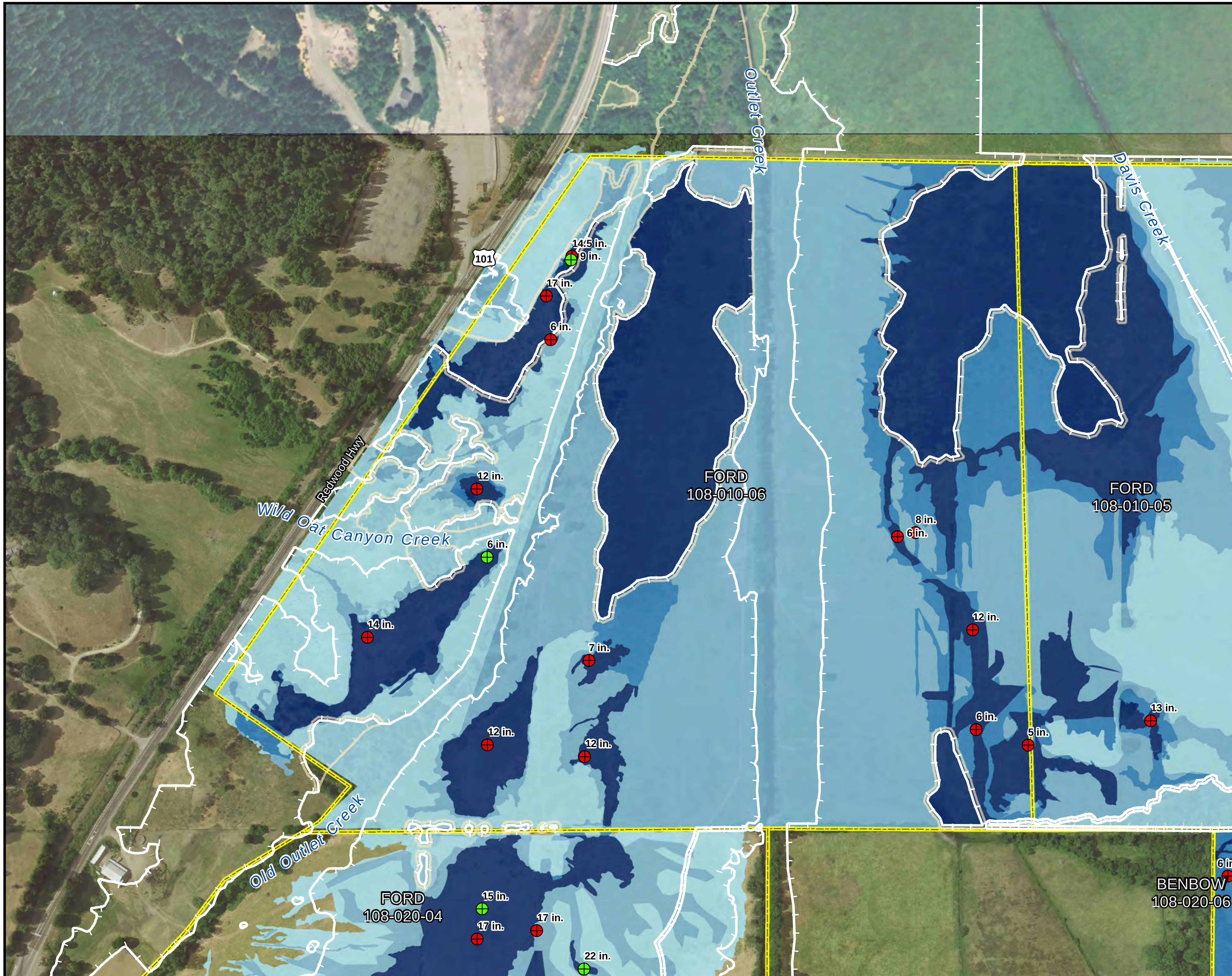

Offsite Mitigation Parcel

Project Bypass Footprint

Permanent Impact Area

Temporary Impact Area

Wetlands

Jurisdictional Wet Meadow

Other Wetland Types

Inundation Duration

1 Month
3 Months
2 Months
4 Months

Depth Points

December 2010
February 2011
January 2011
March 2011

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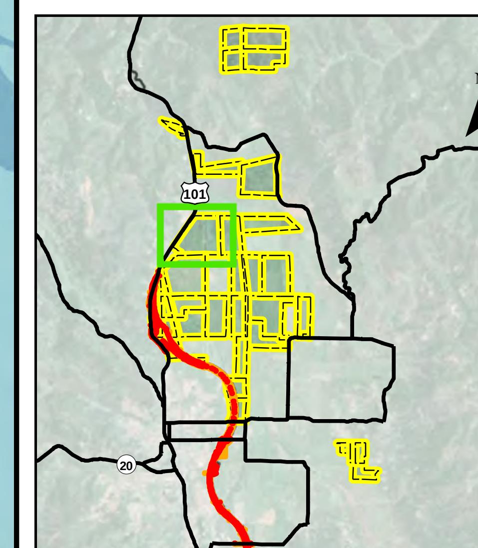

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Sheet N-7

Wetland Inundation Extent and Duration of Ponding Willits Bypass Project

FORD

108-010-06

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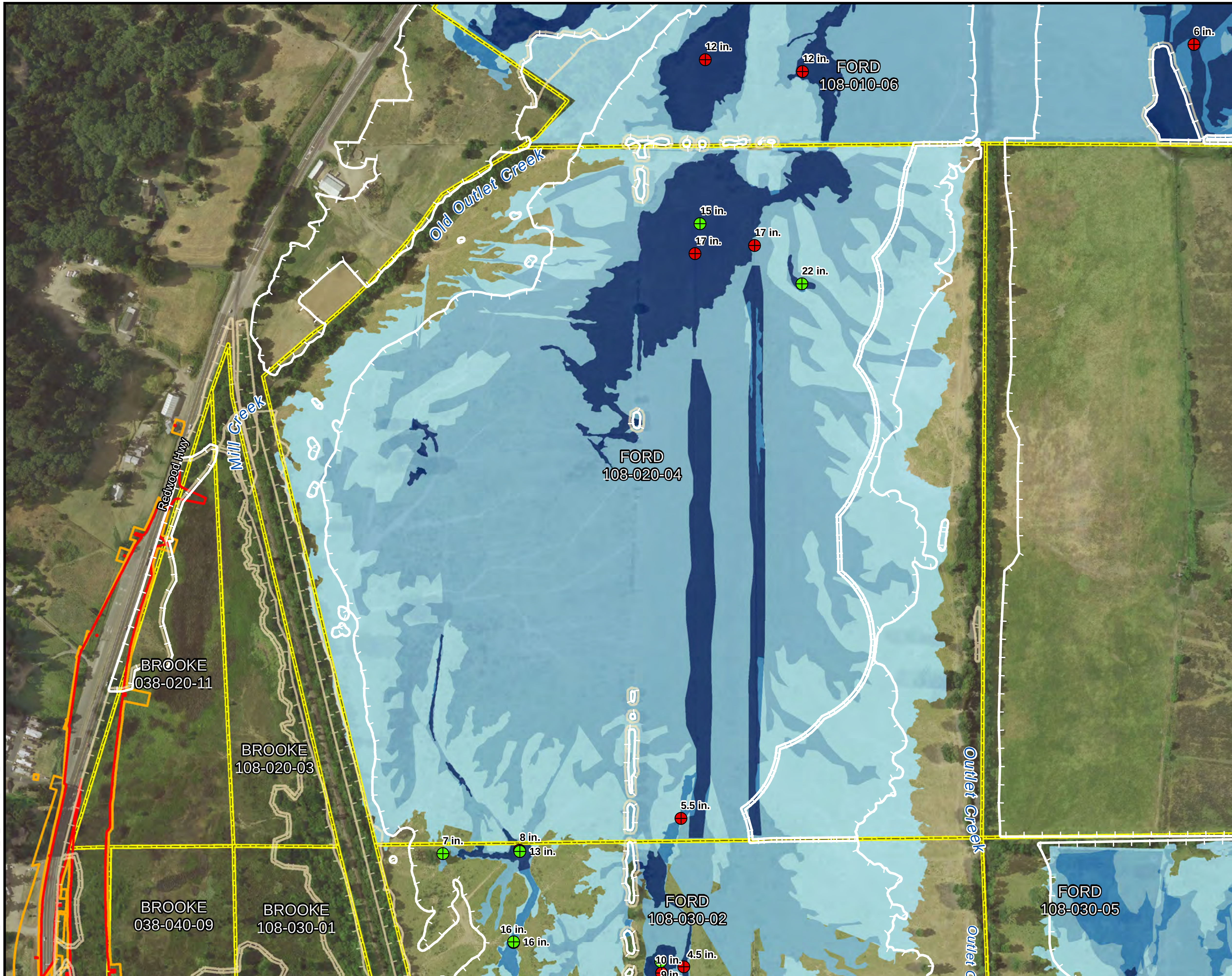


Offsite Mitigation Parcel

Project Bypass Footprint

Permanent Impact Area

Temporary Impact Area

Wetlands

Jurisdictional Wet Meadow

Other Wetland Types

Inundation Duration

1 Month

3 Months

2 Months

4 Months

Depth Points

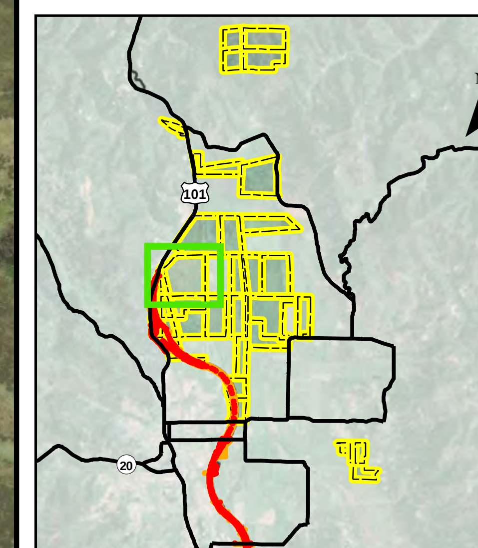
December 2010

February 2011

January 2011

March 2011

Depth is shown in inches.



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Sheet N-8

Wetland Inundation Extent and Duration of Ponding Willits Bypass Project

FORD

108-020-04

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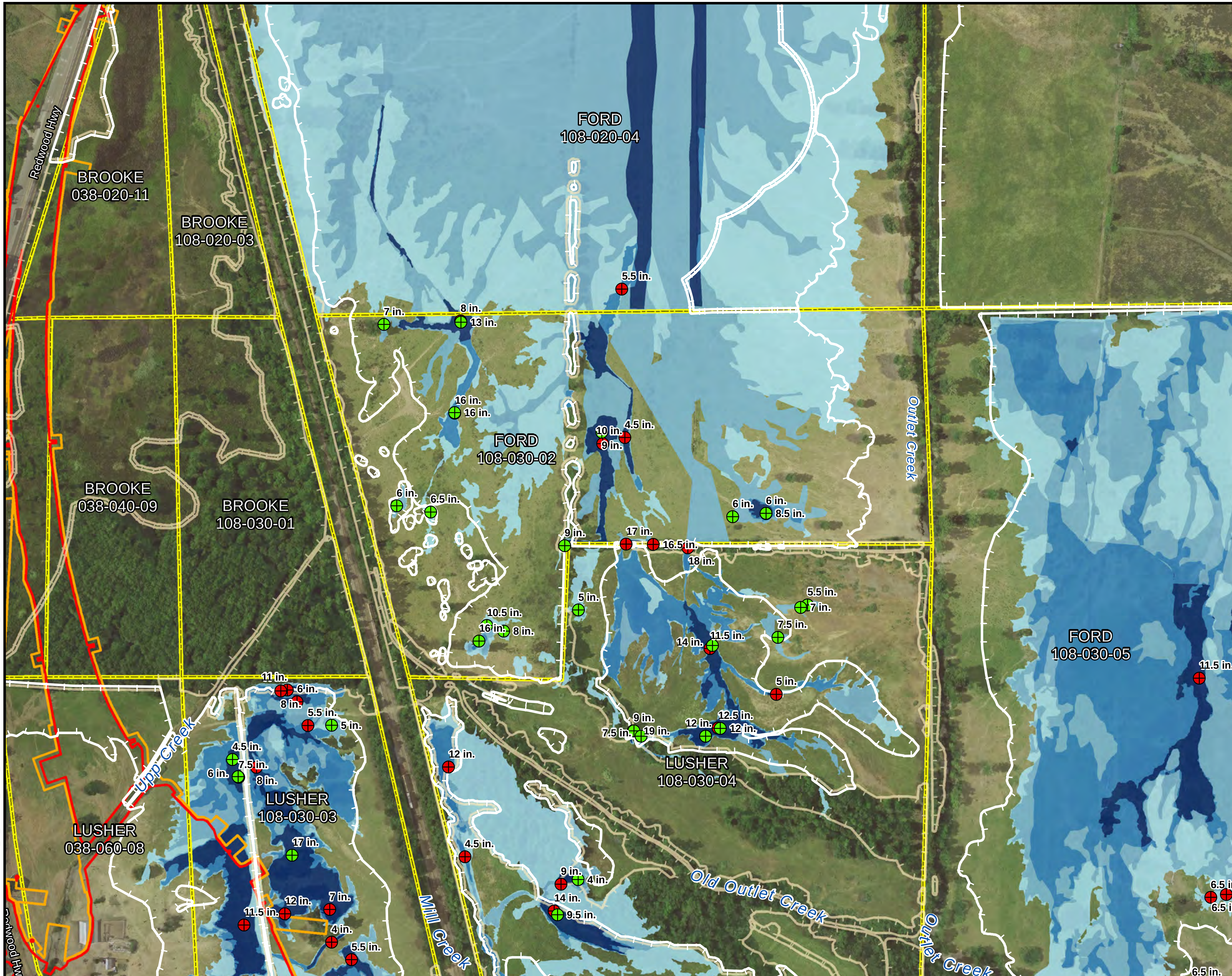

Offsite Mitigation Parcel

Project Bypass Footprint

Permanent Impact Area

Temporary Impact Area

Wetlands

Jurisdictional Wet Meadow

Other Wetland Types

Inundation Duration

1 Month
3 Months
2 Months
4 Months

Depth Points

December 2010
February 2011
January 2011
March 2011

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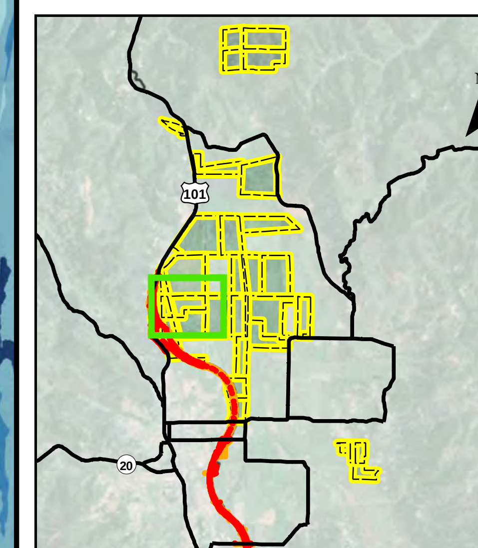

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Sheet N-9

Wetland Inundation Extent and Duration of Ponding Willits Bypass Project

FORD

108-030-02

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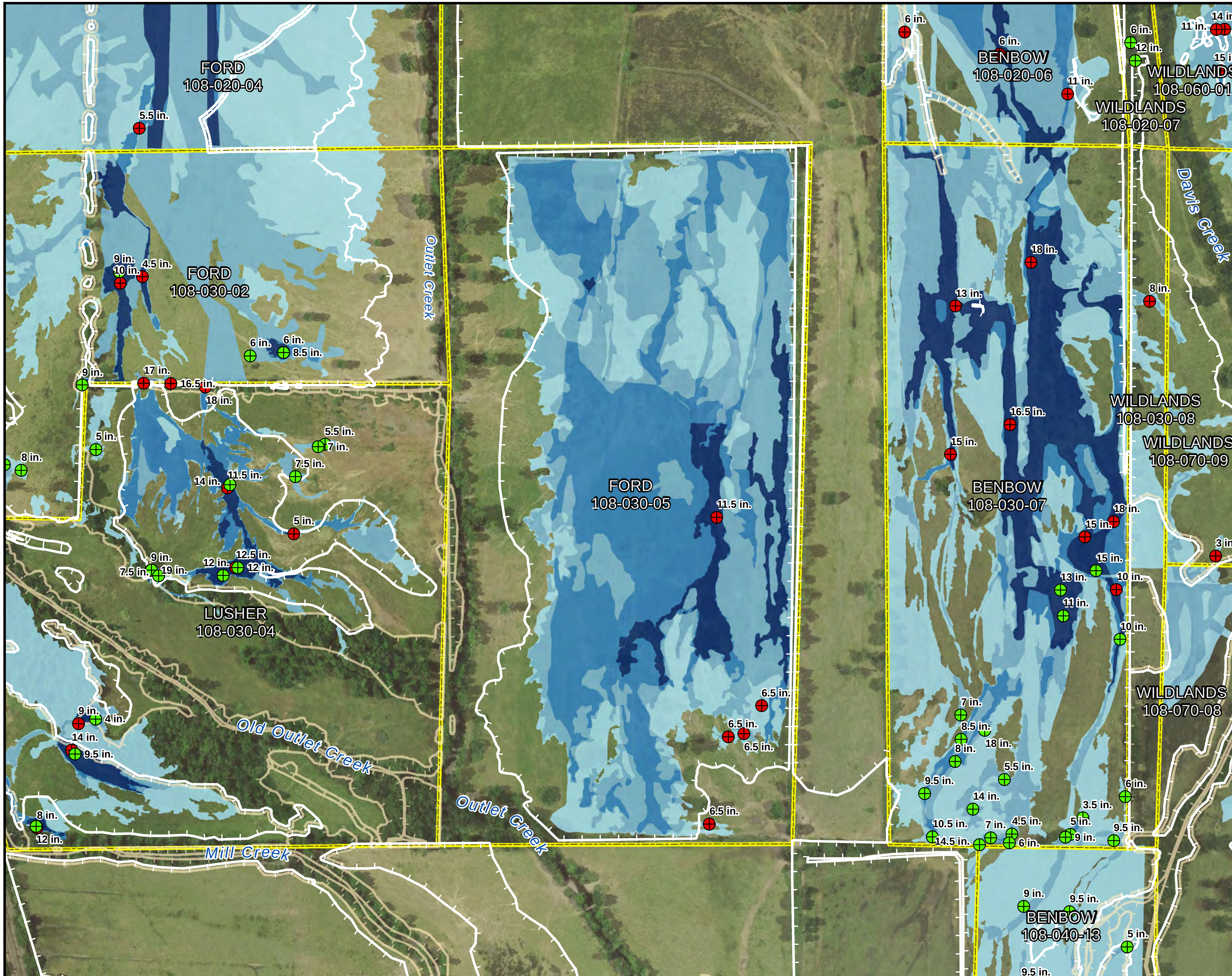


Offsite Mitigation Parcel

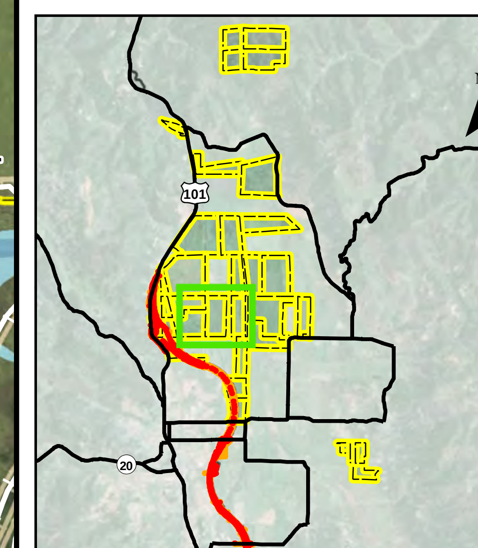
Project Bypass Footprint
- Permanent Impact Area
- Temporary Impact Area

Wetlands
- Jurisdictional Wet Meadow
- Other Wetland Types

Inundation Duration
- 1 Month
- 2 Months
- 3 Months
- 4 Months

Depth Points
- December 2010
- January 2011
- February 2011
- March 2011

Depth is shown in inches.



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Sheet N-10

Wetland Inundation Extent and Duration of Ponding Willits Bypass Project

FORD

108-030-05

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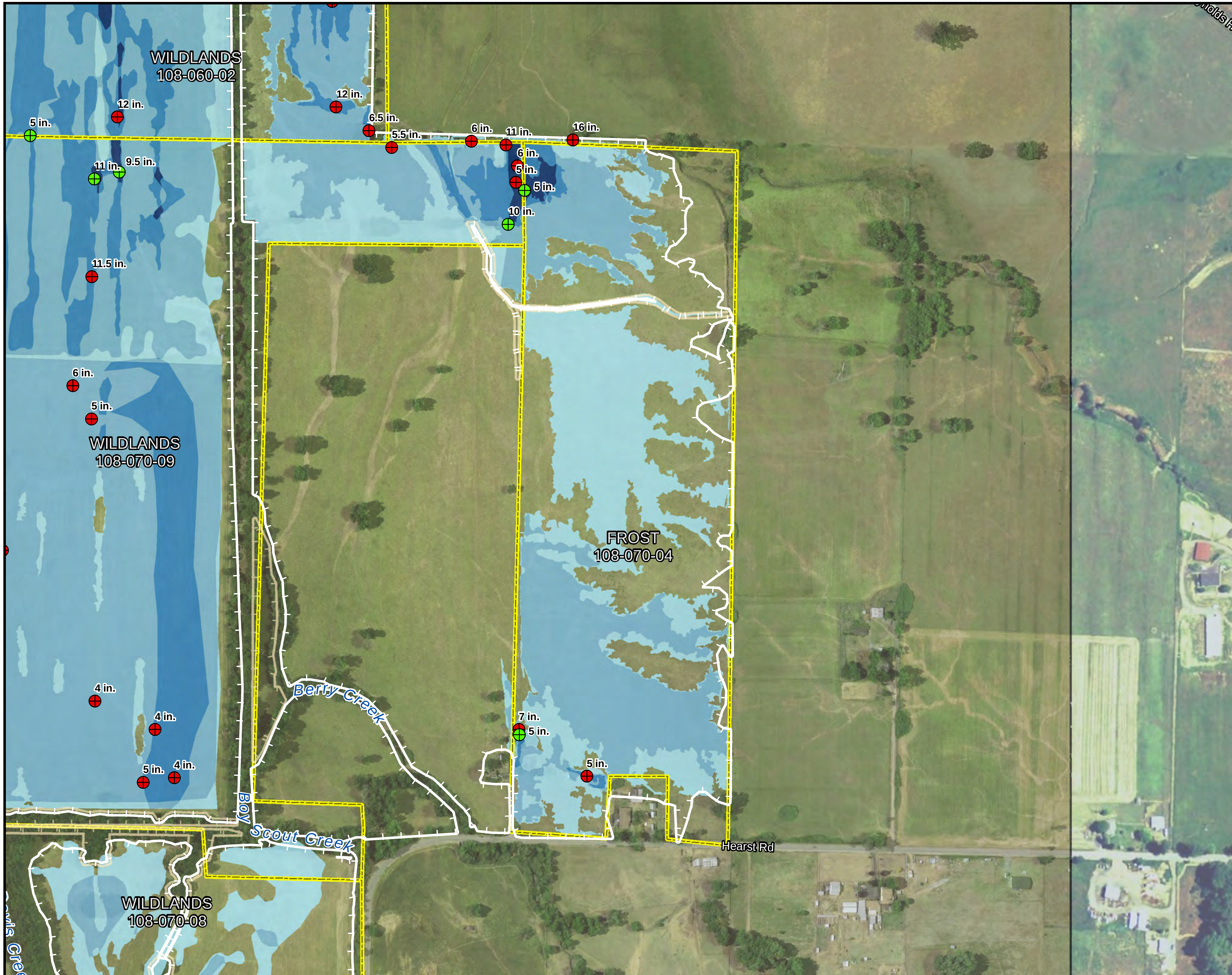

Offsite Mitigation Parcel

Project Bypass Footprint

Permanent Impact Area

Temporary Impact Area

Wetlands

Jurisdictional Wet Meadow

Other Wetland Types

Inundation Duration

1 Month
3 Months
2 Months
4 Months

Depth Points

December 2010
February 2011
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March 2011

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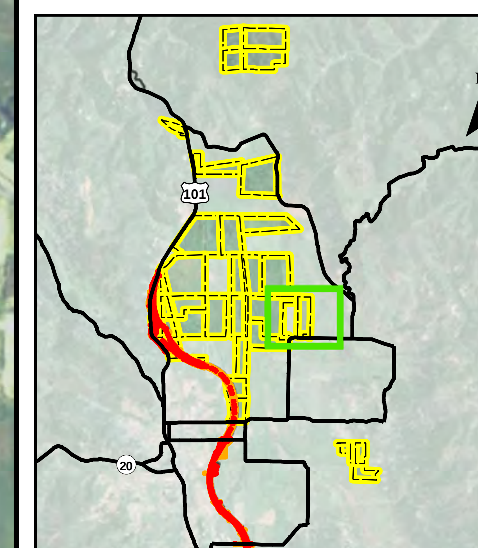

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Sheet N-11

Wetland Inundation Extent and Duration of Ponding Willits Bypass Project

FROST

108-070-04

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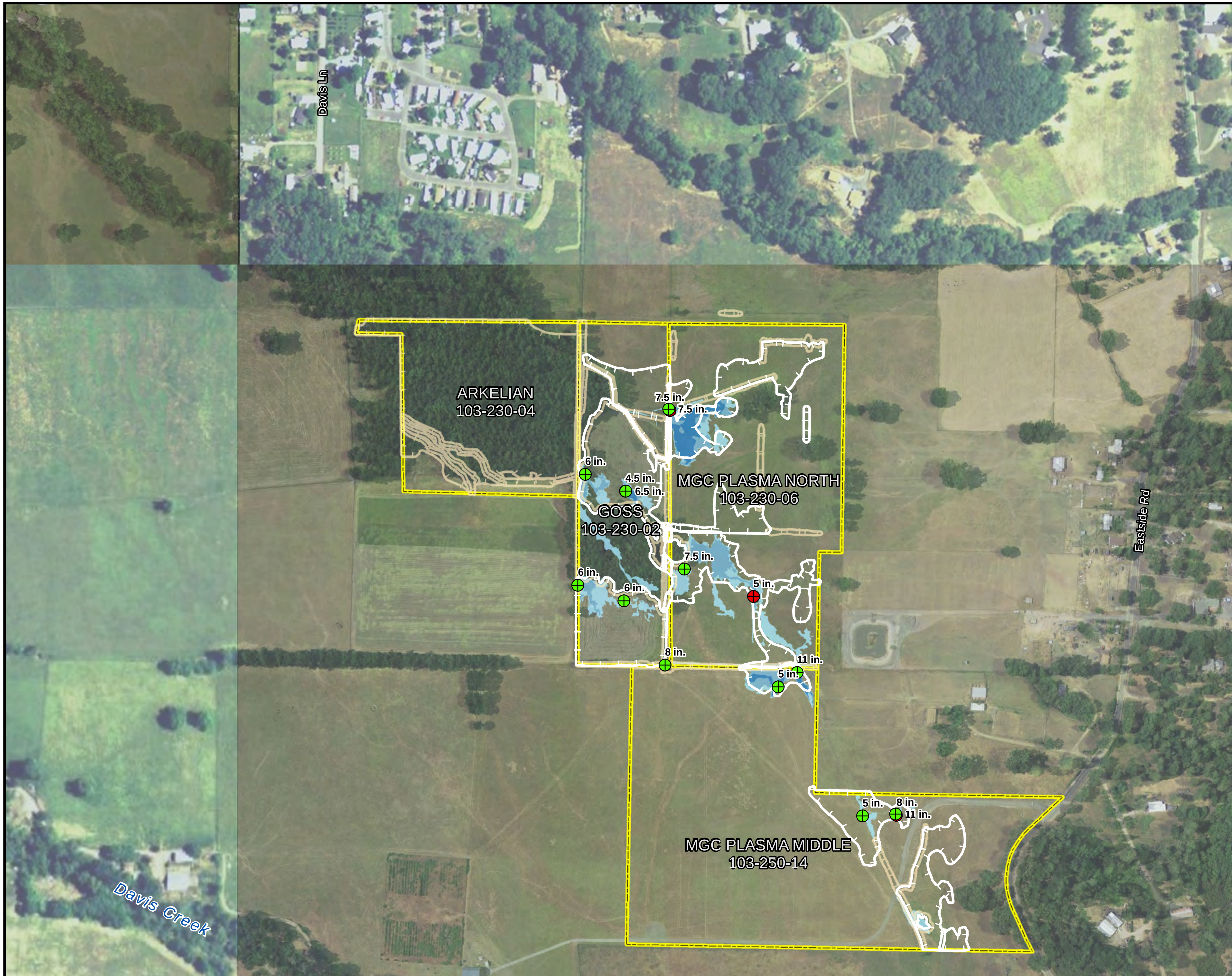


Offsite Mitigation Parcel

Project Bypass Footprint

Permanent Impact Area

Temporary Impact Area

Wetlands

Jurisdictional Wet Meadow

Other Wetland Types

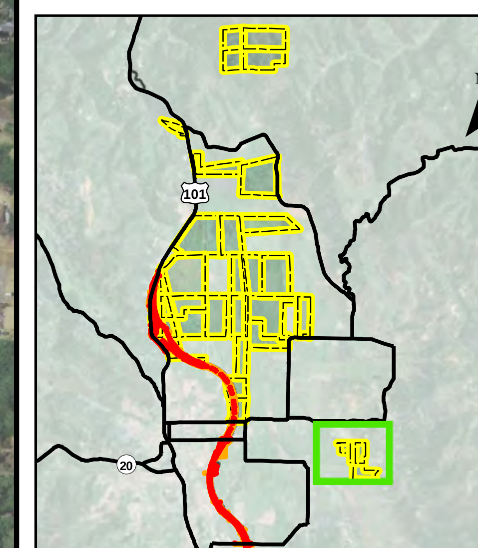
Inundation Duration

1 Month
3 Months
2 Months
4 Months

Depth Points

December 2010
February 2011
January 2011
March 2011

Depth is shown in inches.



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Sheet N-12

Wetland Inundation Extent and Duration of Ponding Willits Bypass Project

GOSS

103-230-02

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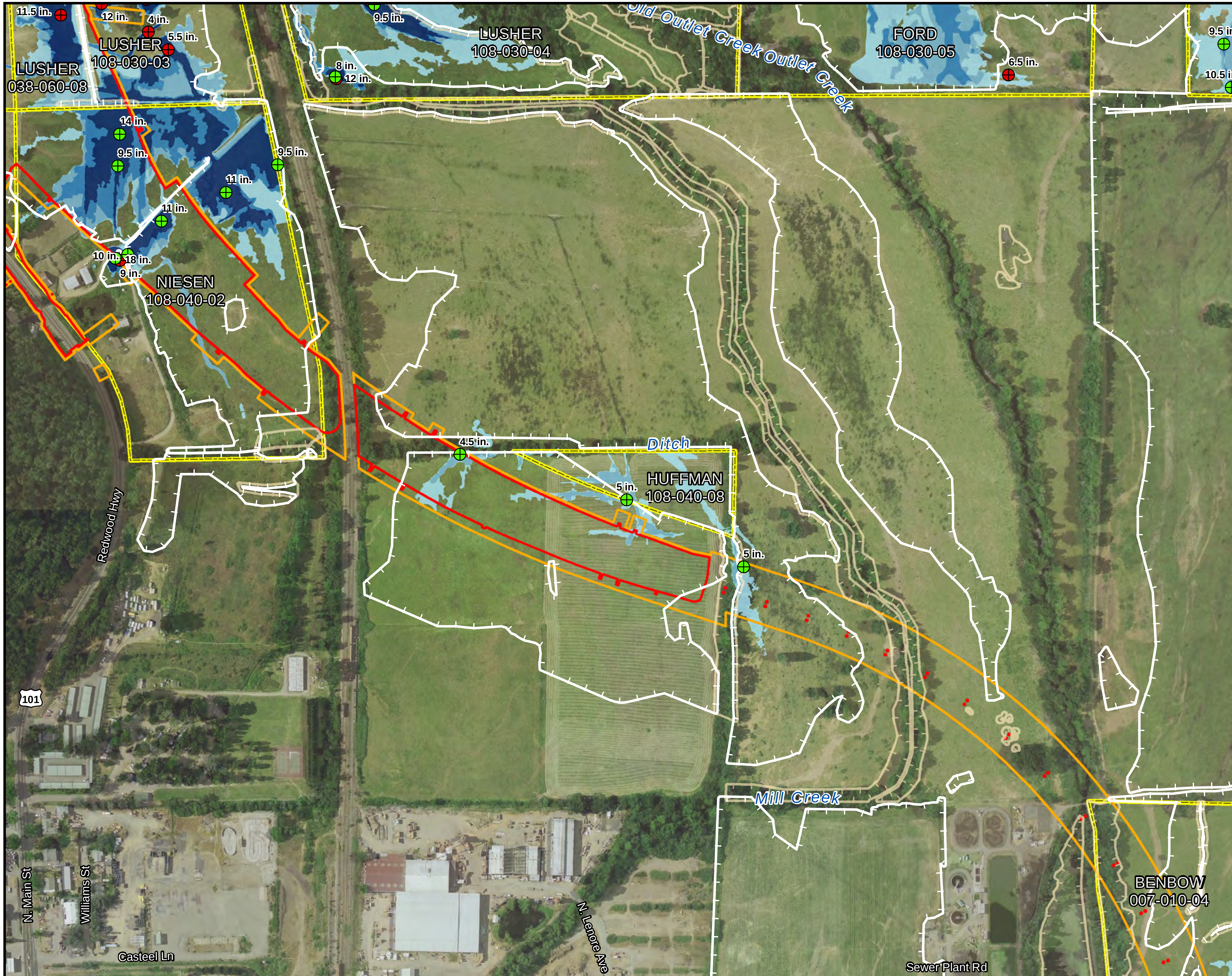

Offsite Mitigation Parcel

Project Bypass Footprint

Permanent Impact Area

Temporary Impact Area

Wetlands

Jurisdictional Wet Meadow

Other Wetland Types

Inundation Duration

1 Month | 3 Months

2 Months | 4 Months

Depth Points

December 2010 | February 2011

January 2011 | March 2011

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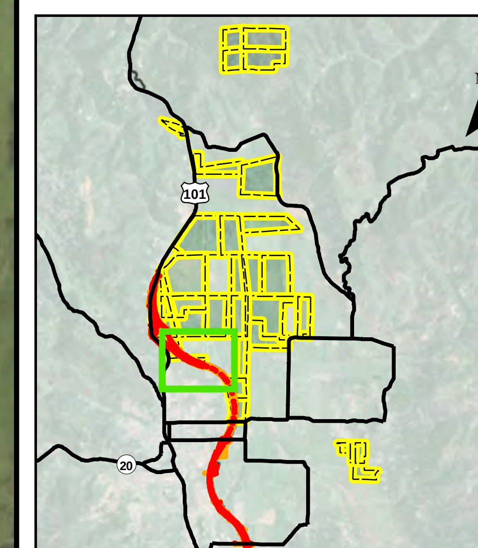

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Sheet N-13

Wetland Inundation Extent and Duration of Ponding Willits Bypass Project

HUFFMAN

108-040-08

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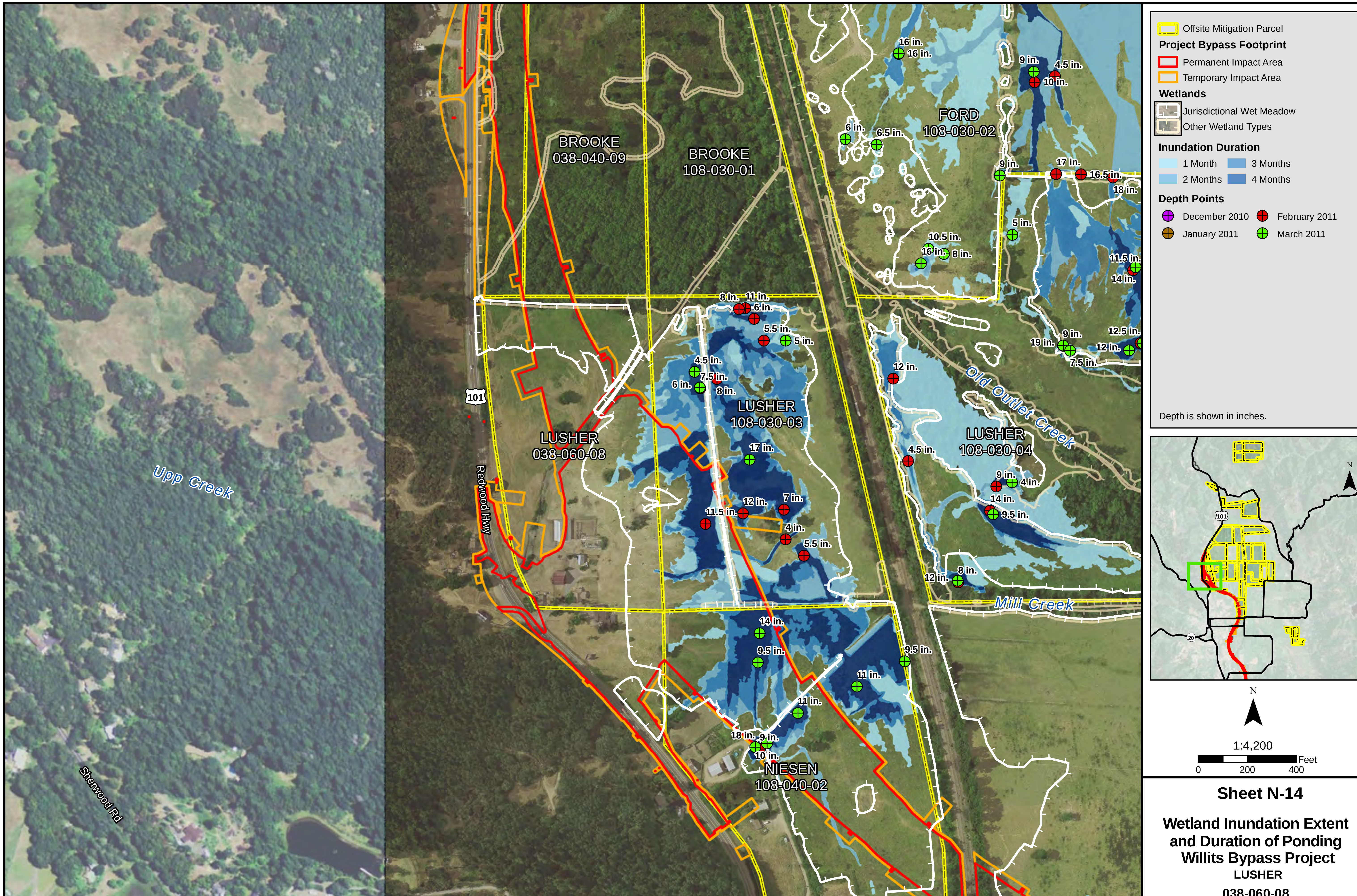

Sheet N-14

Wetland Inundation Extent and Duration of Ponding Willits Bypass Project

LUSHER

038-060-08

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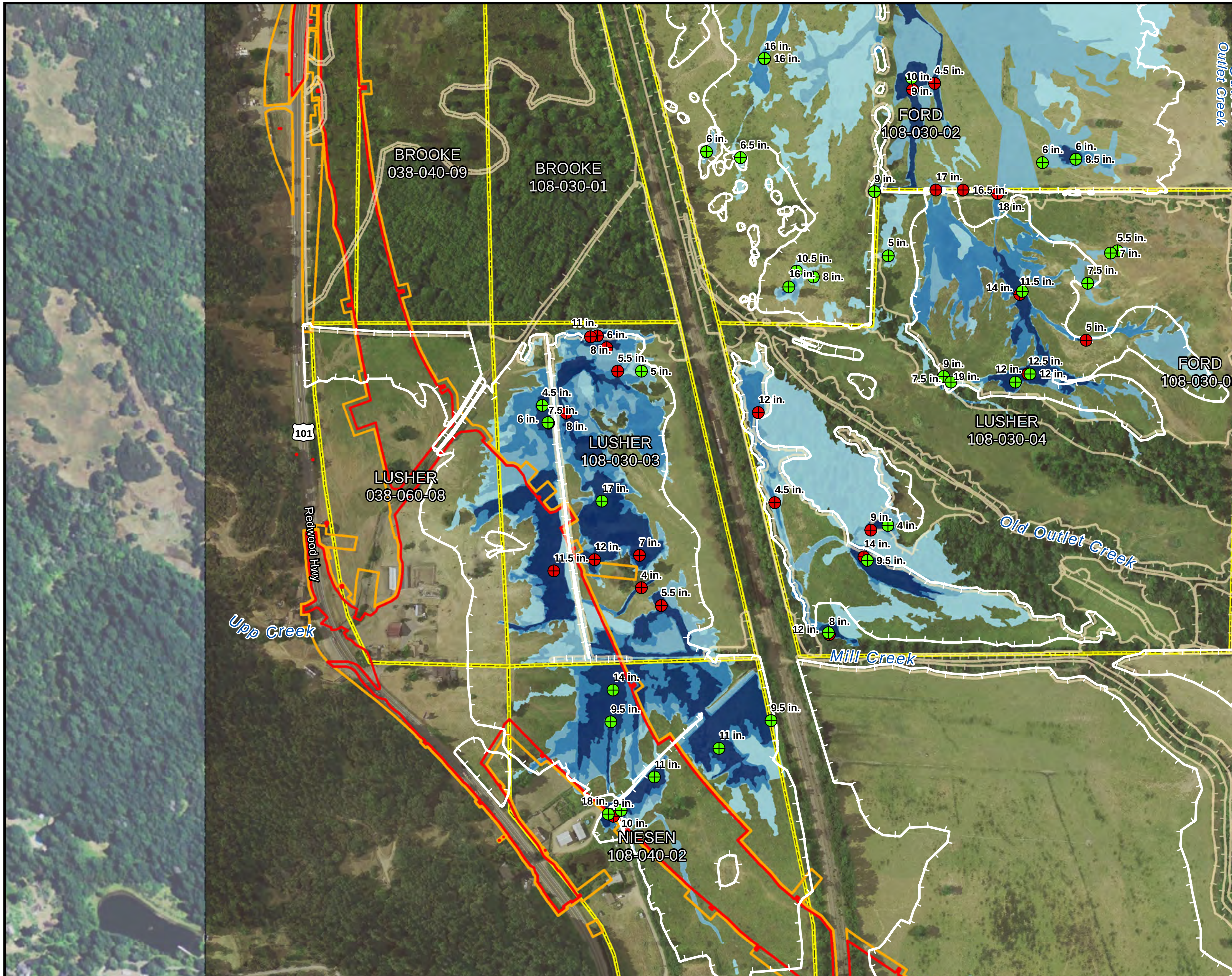

Offsite Mitigation Parcel

Project Bypass Footprint

Permanent Impact Area

Temporary Impact Area

Wetlands

Jurisdictional Wet Meadow

Other Wetland Types

Inundation Duration

1 Month

2 Months

3 Months

4 Months

Depth Points

December 2010

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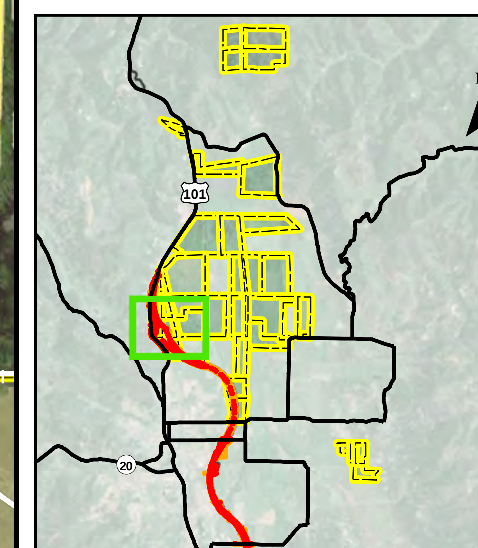
February 2011

March 2011

Depth is shown in inches.



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0 200 400 Feet

Sheet N-15

Wetland Inundation Extent and Duration of Ponding
Willits Bypass Project
LUSHER
108-030-03

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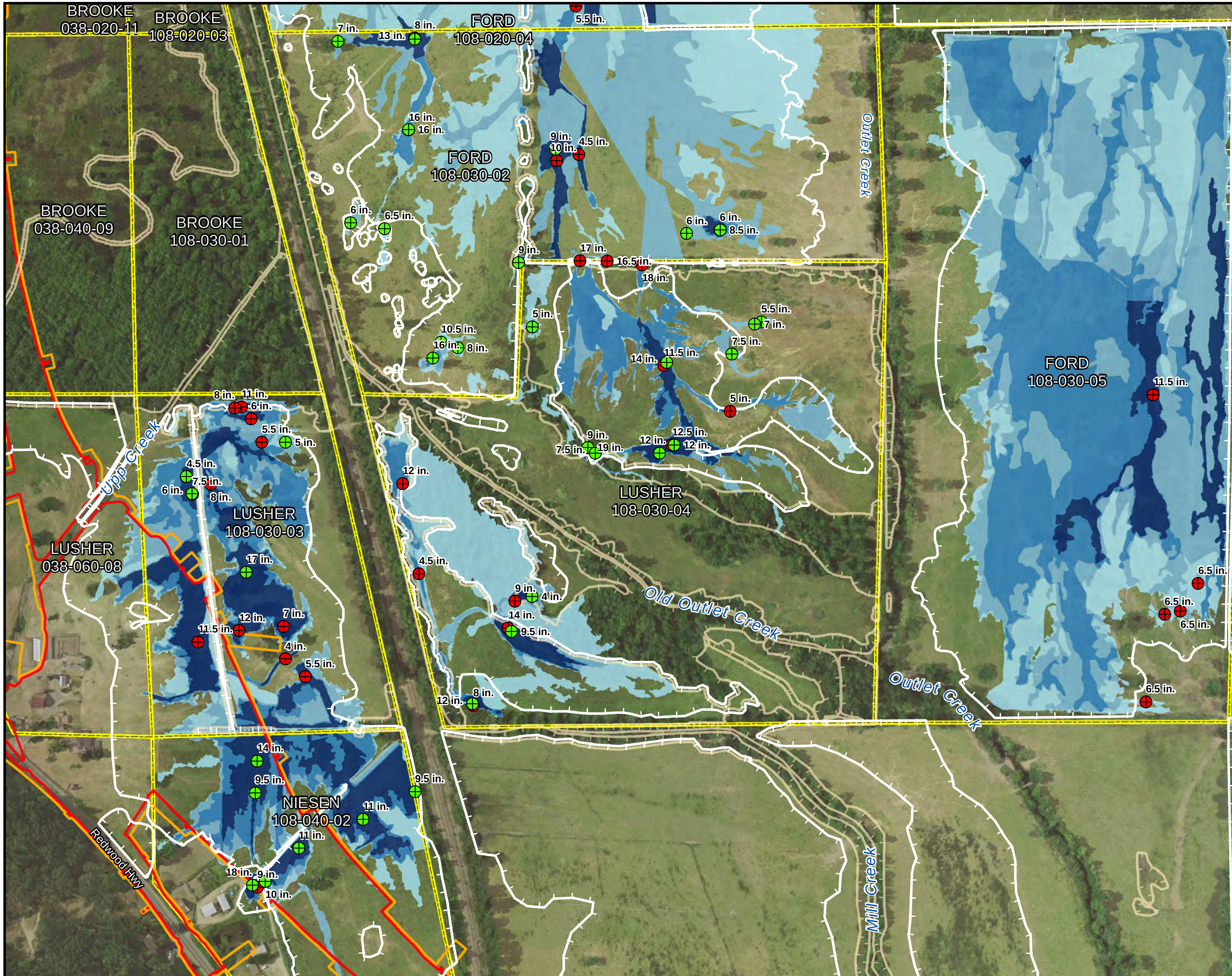

Offsite Mitigation Parcel

Project Bypass Footprint

Permanent Impact Area

Temporary Impact Area

Wetlands

Jurisdictional Wet Meadow

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1 Month

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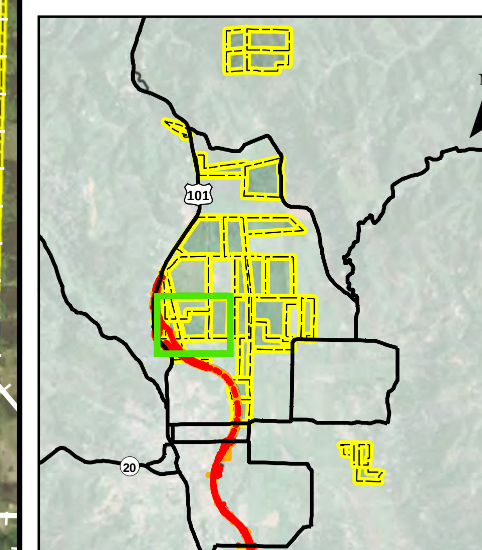
March 2011

Depth is shown in inches.



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Sheet N-16

Wetland Inundation Extent and Duration of Ponding Willits Bypass Project

LUSHER

108-030-04

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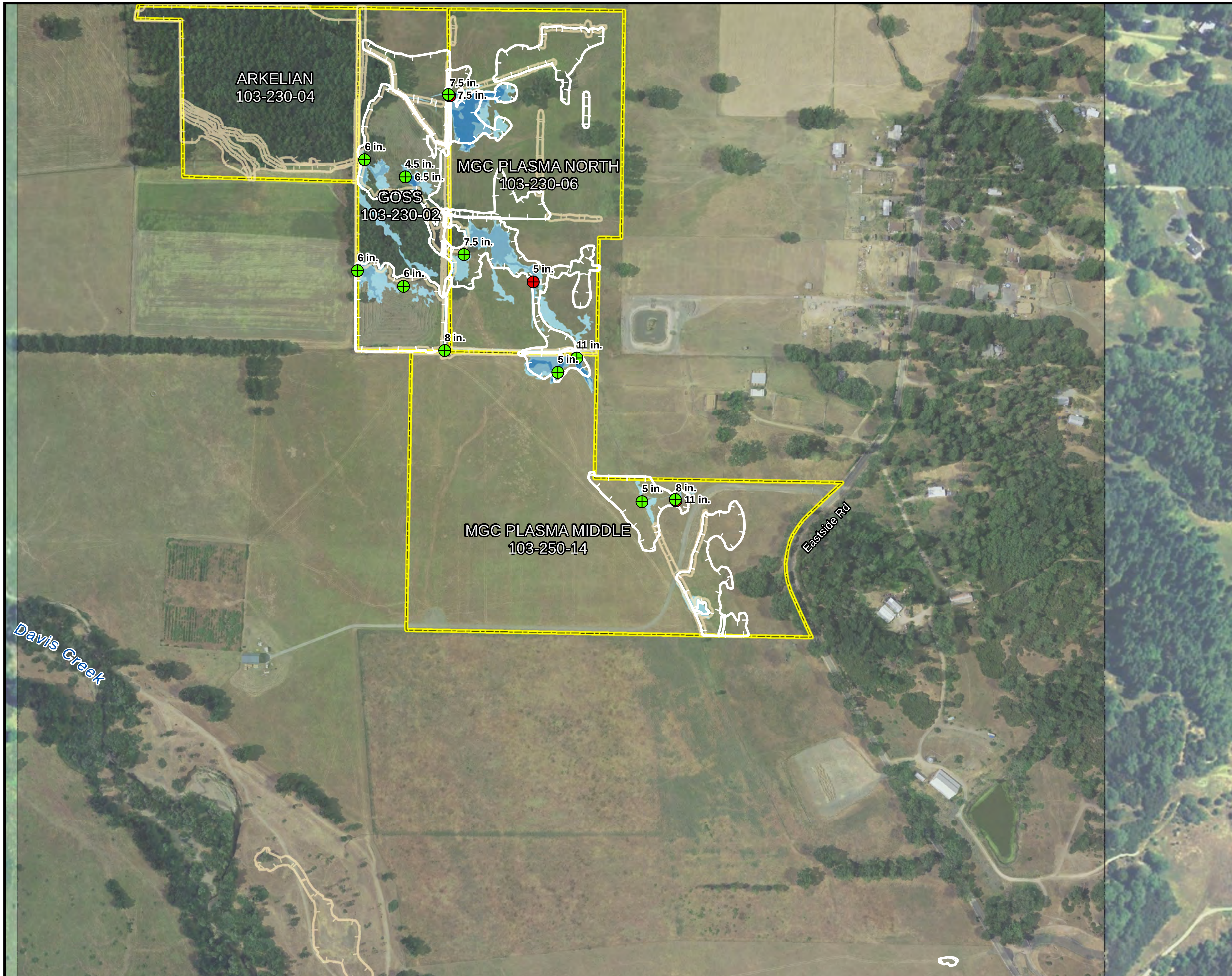


Offsite Mitigation Parcel

Project Bypass Footprint

Permanent Impact Area

Temporary Impact Area

Wetlands

Jurisdictional Wet Meadow

Other Wetland Types

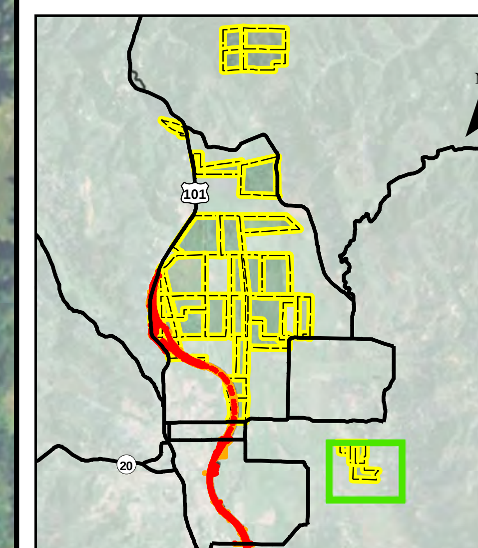
Inundation Duration

1 Month
3 Months
2 Months
4 Months

Depth Points

December 2010
February 2011
January 2011
March 2011

Depth is shown in inches.



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Sheet N-17

Wetland Inundation Extent and Duration of Ponding Willits Bypass Project

MGC PLASMA MIDDLE

103-250-14

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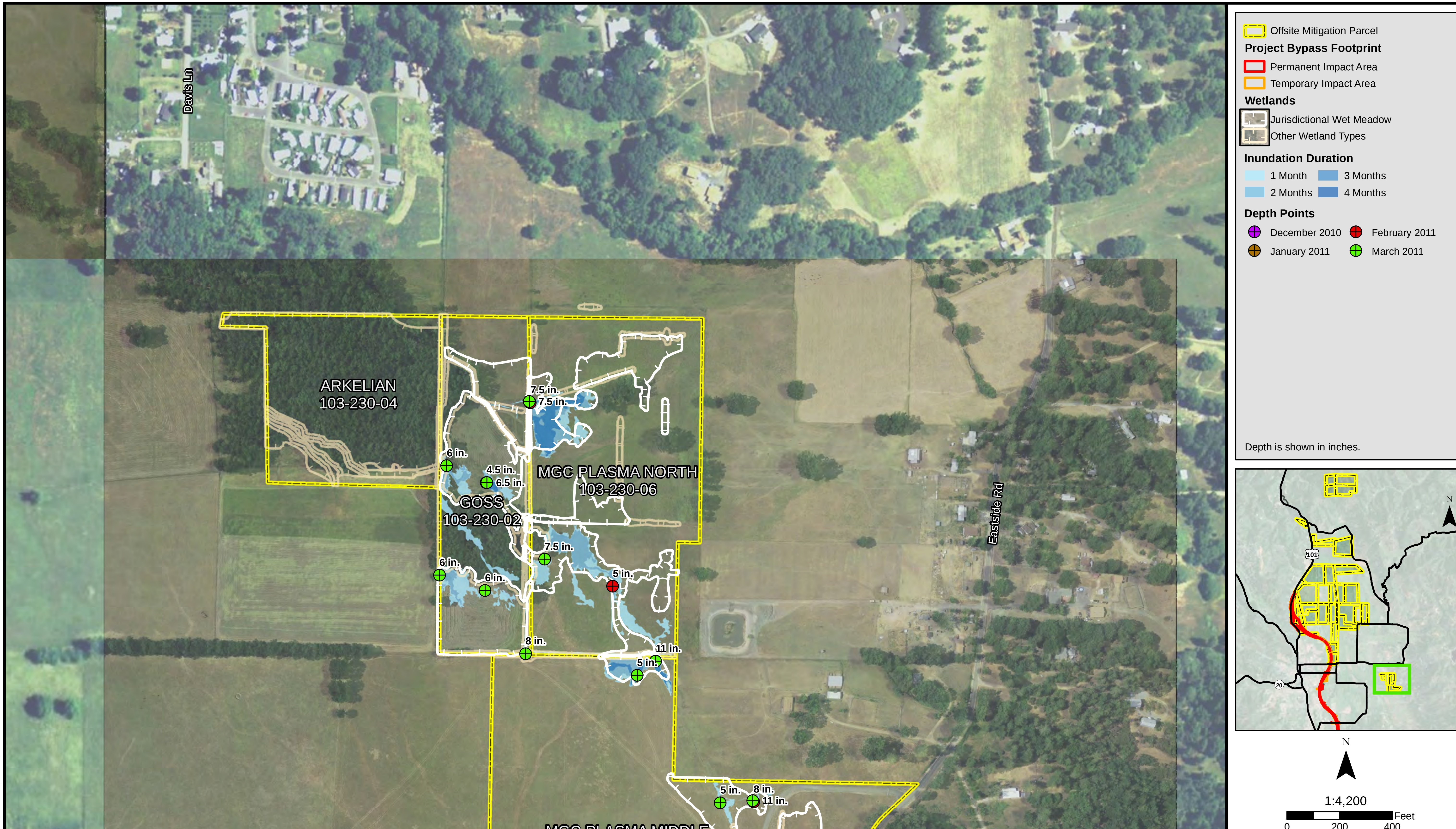

Sheet N-18

Wetland Inundation Extent and Duration of Ponding Willits Bypass Project

MGC PLASMA NORTH

103-230-06

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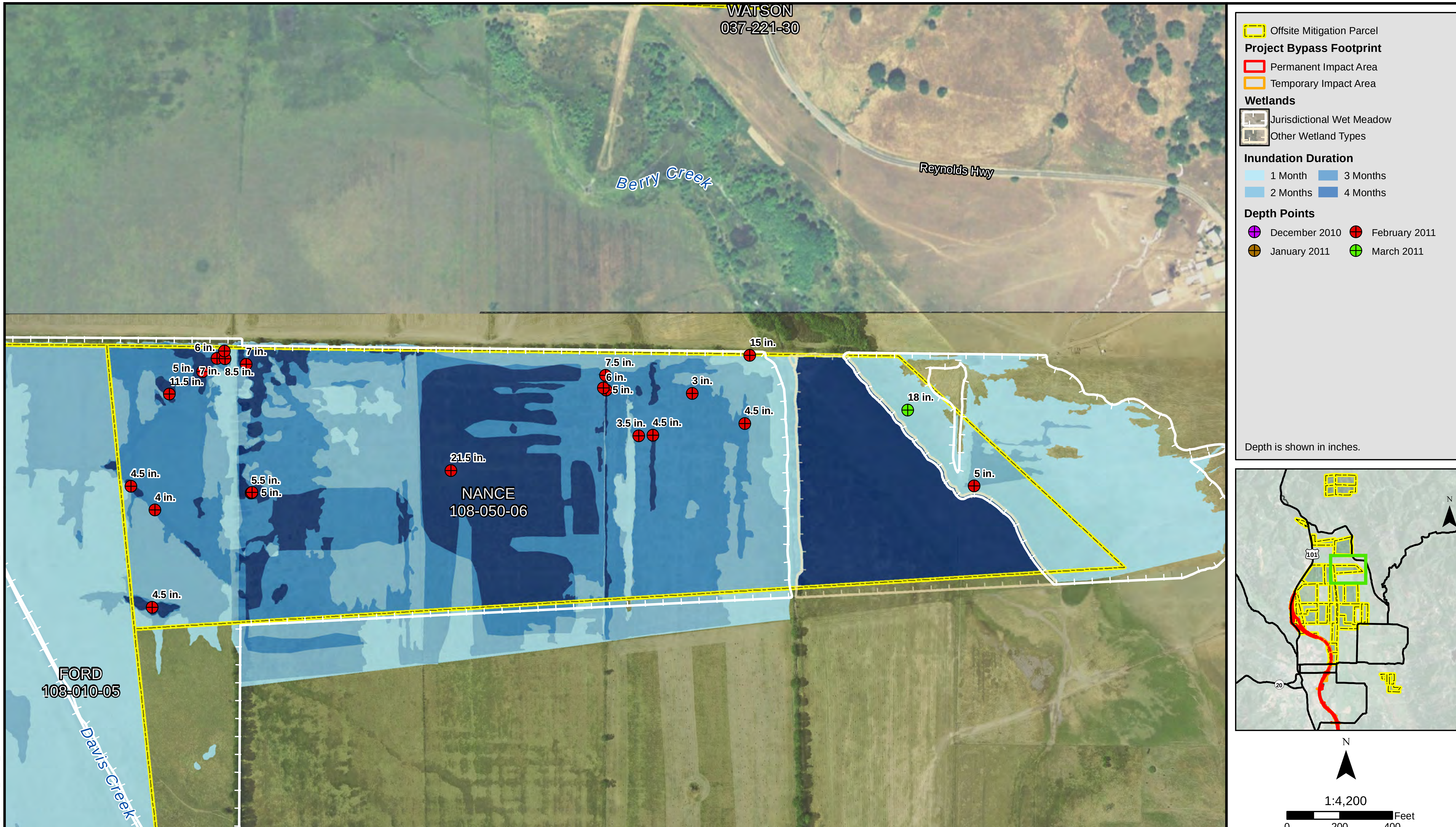

Sheet N-19

Wetland Inundation Extent and Duration of Ponding
Willits Bypass Project
NANCE
108-050-06

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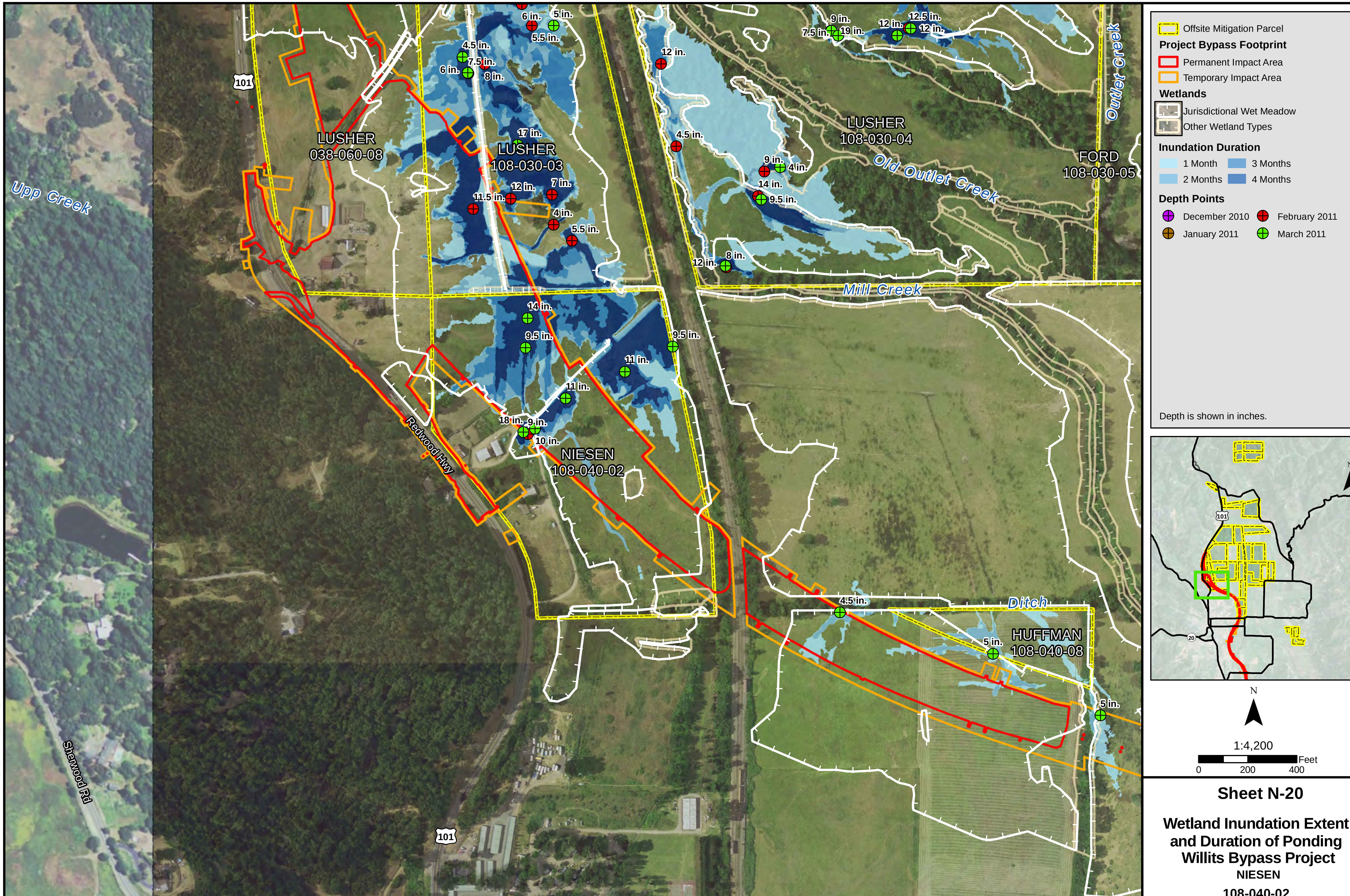

Sheet N-20

Wetland Inundation Extent and Duration of Ponding Willits Bypass Project

NIESEN

108-040-02

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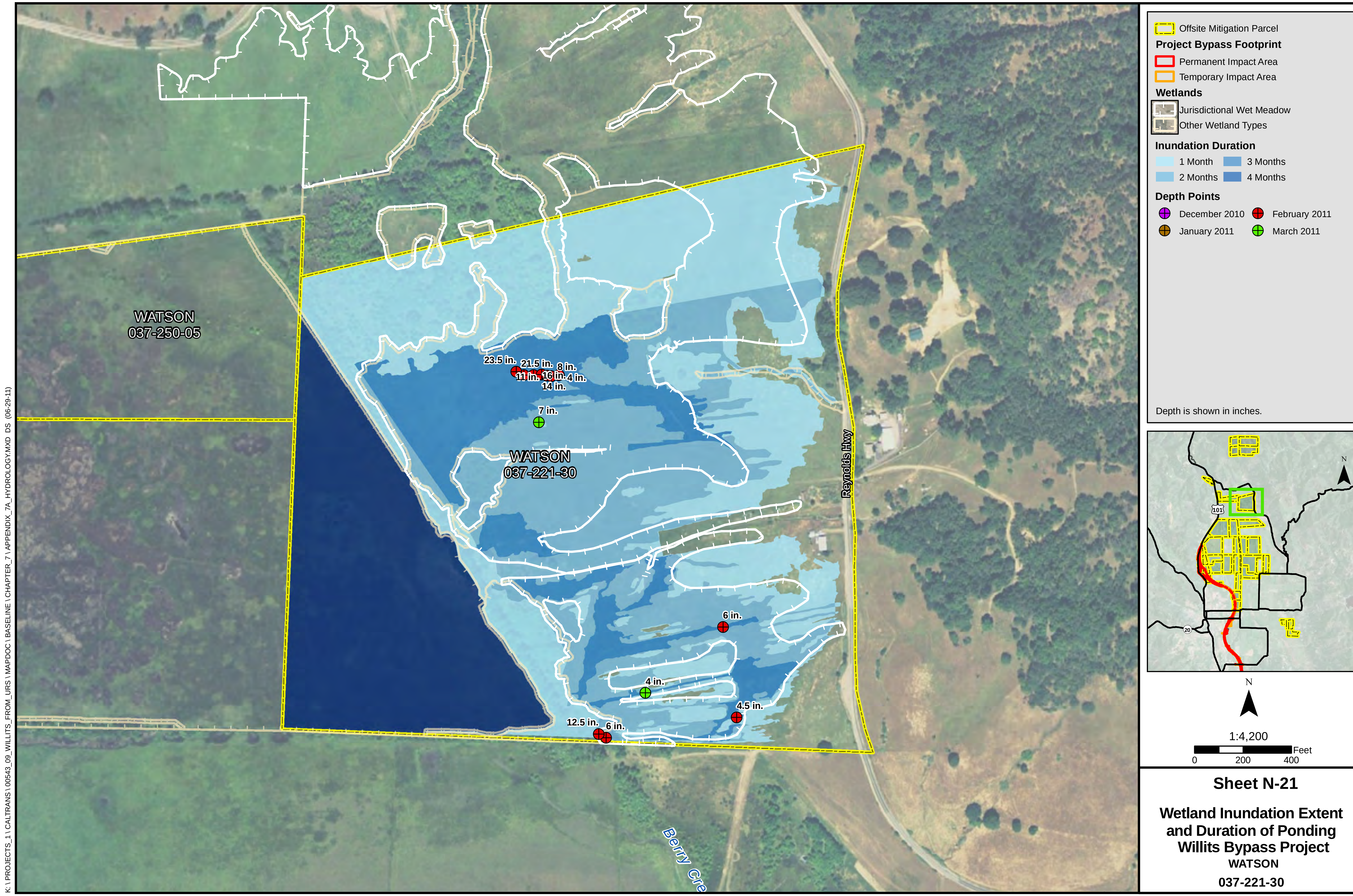
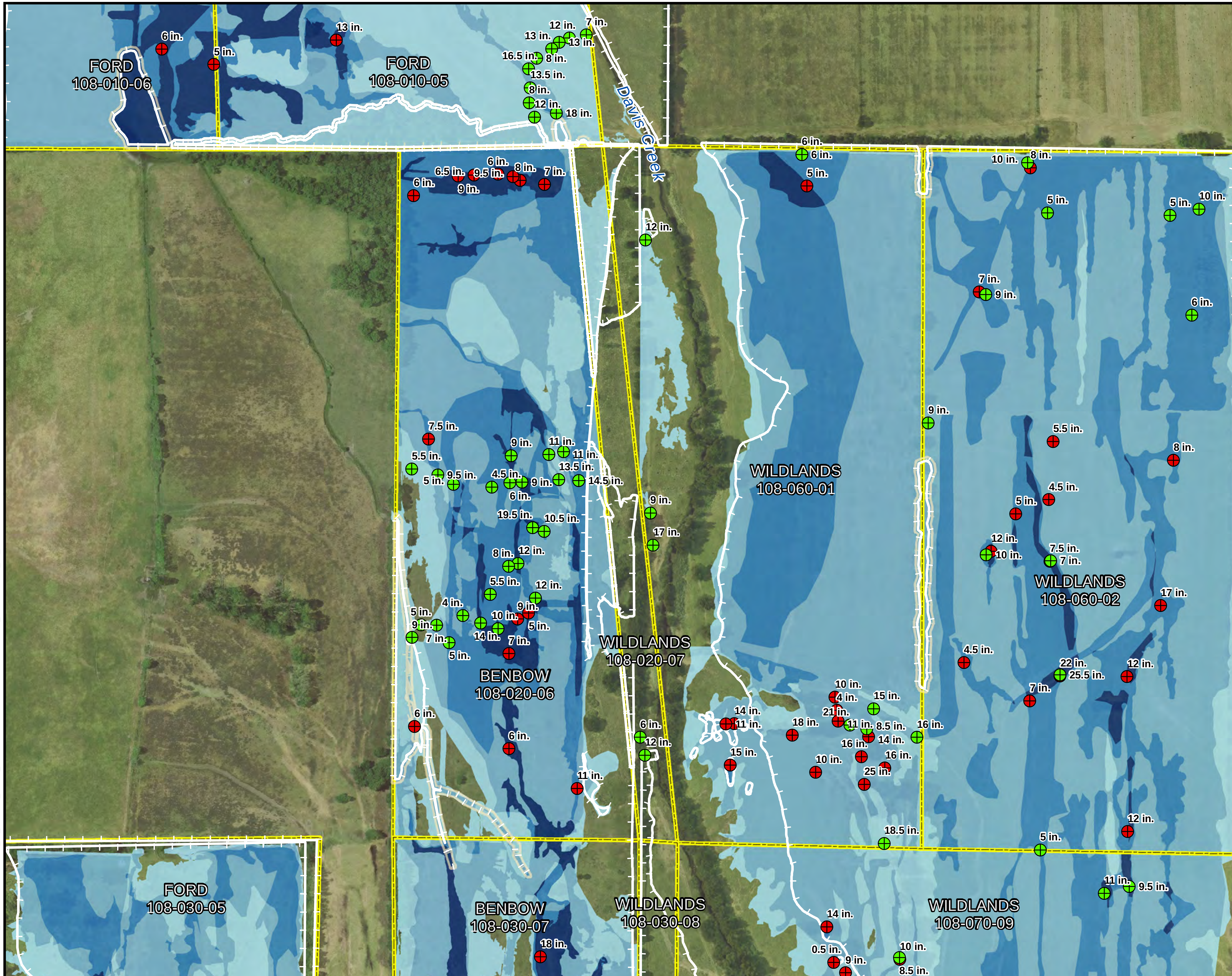


Sheet N-21

Wetland Inundation Extent and Duration of Ponding Willits Bypass Project

WATSON

037-221-30



Offsite Mitigation Parcel

Project Bypass Footprint

Permanent Impact Area

Temporary Impact Area

Wetlands

Jurisdictional Wet Meadow

Other Wetland Types

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3 Months
2 Months
4 Months

Depth Points

December 2010
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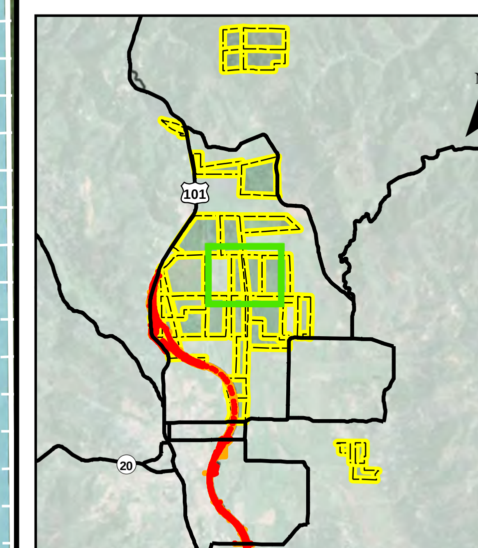

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Sheet N-22

Wetland Inundation Extent and Duration of Ponding Willits Bypass Project

WILDLANDS

108-020-07

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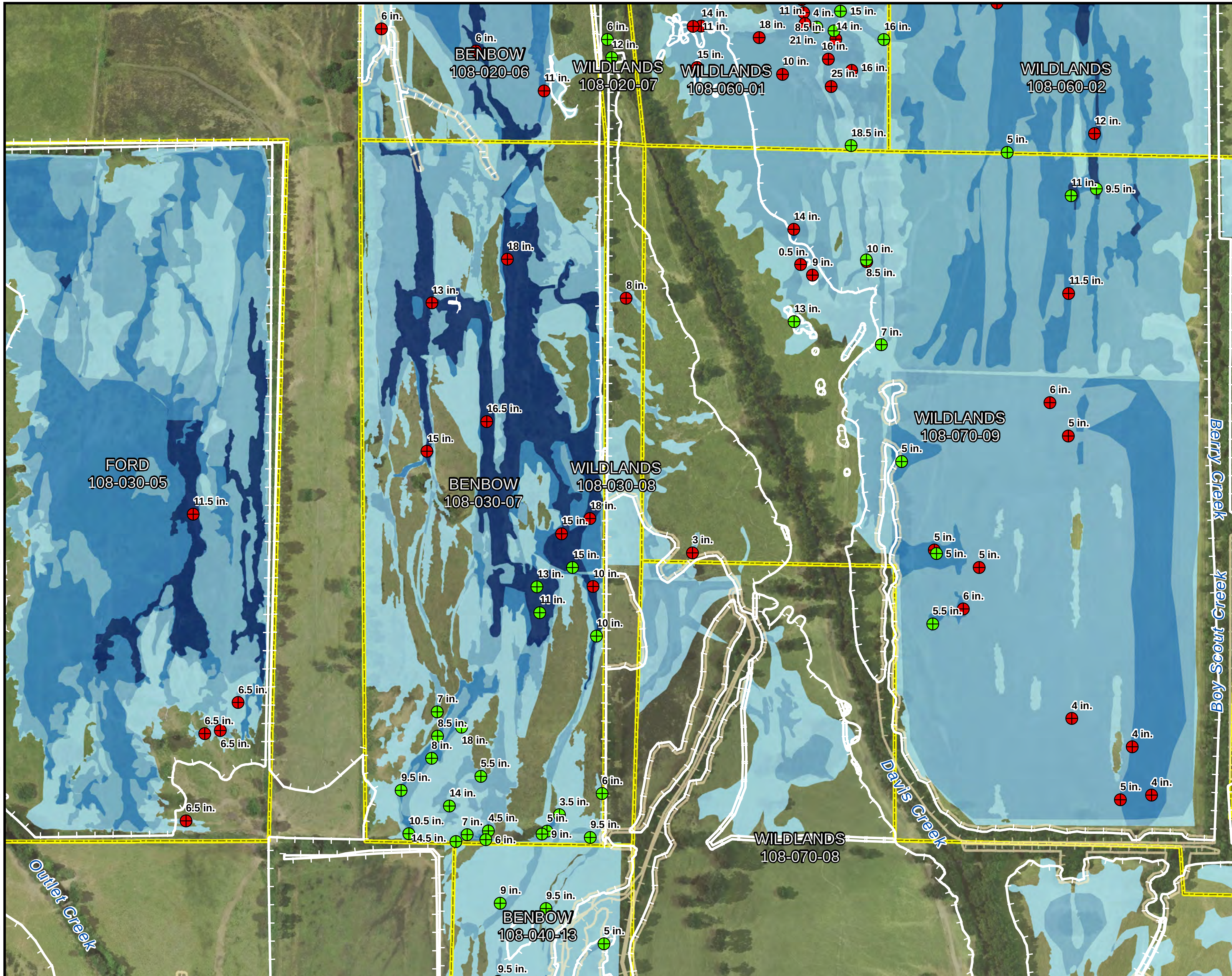

Offsite Mitigation Parcel

Project Bypass Footprint

Permanent Impact Area

Temporary Impact Area

Wetlands

Jurisdictional Wet Meadow

Other Wetland Types

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1 Month
3 Months
2 Months
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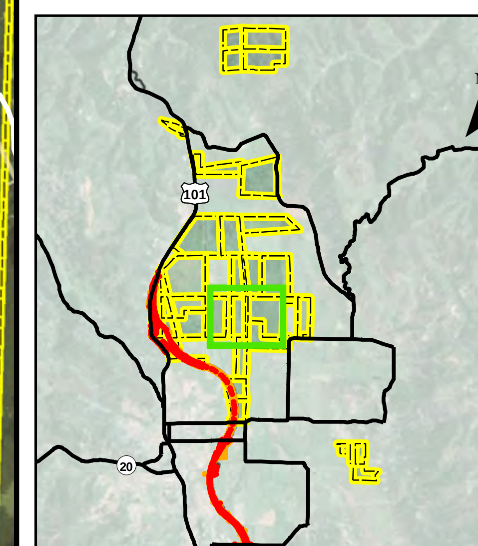

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Sheet N-23

Wetland Inundation Extent and Duration of Ponding Willits Bypass Project

WILDLANDS

108-030-08

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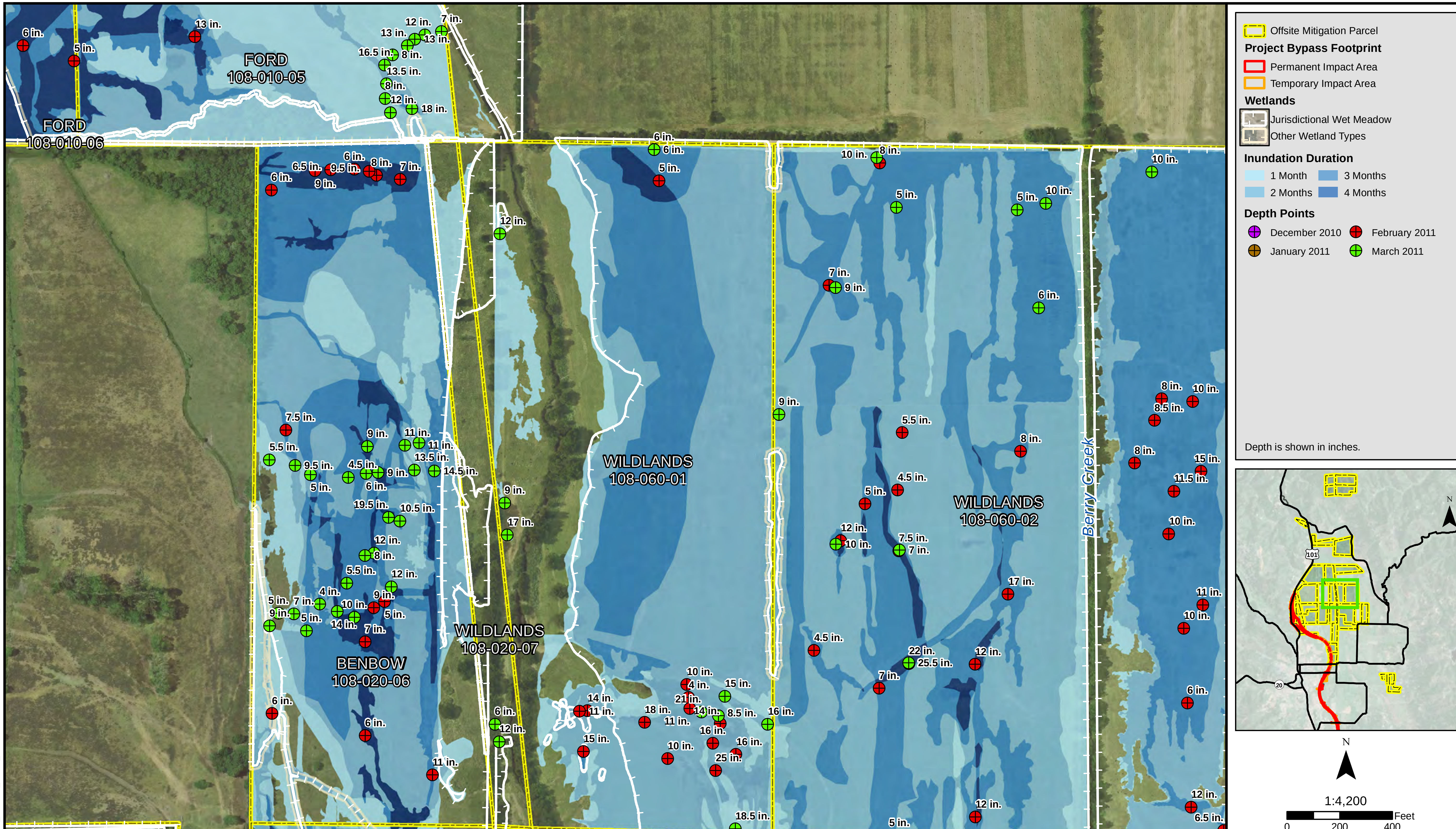

Sheet N-24

Wetland Inundation Extent and Duration of Ponding Willits Bypass Project

WILDLANDS

108-060-01

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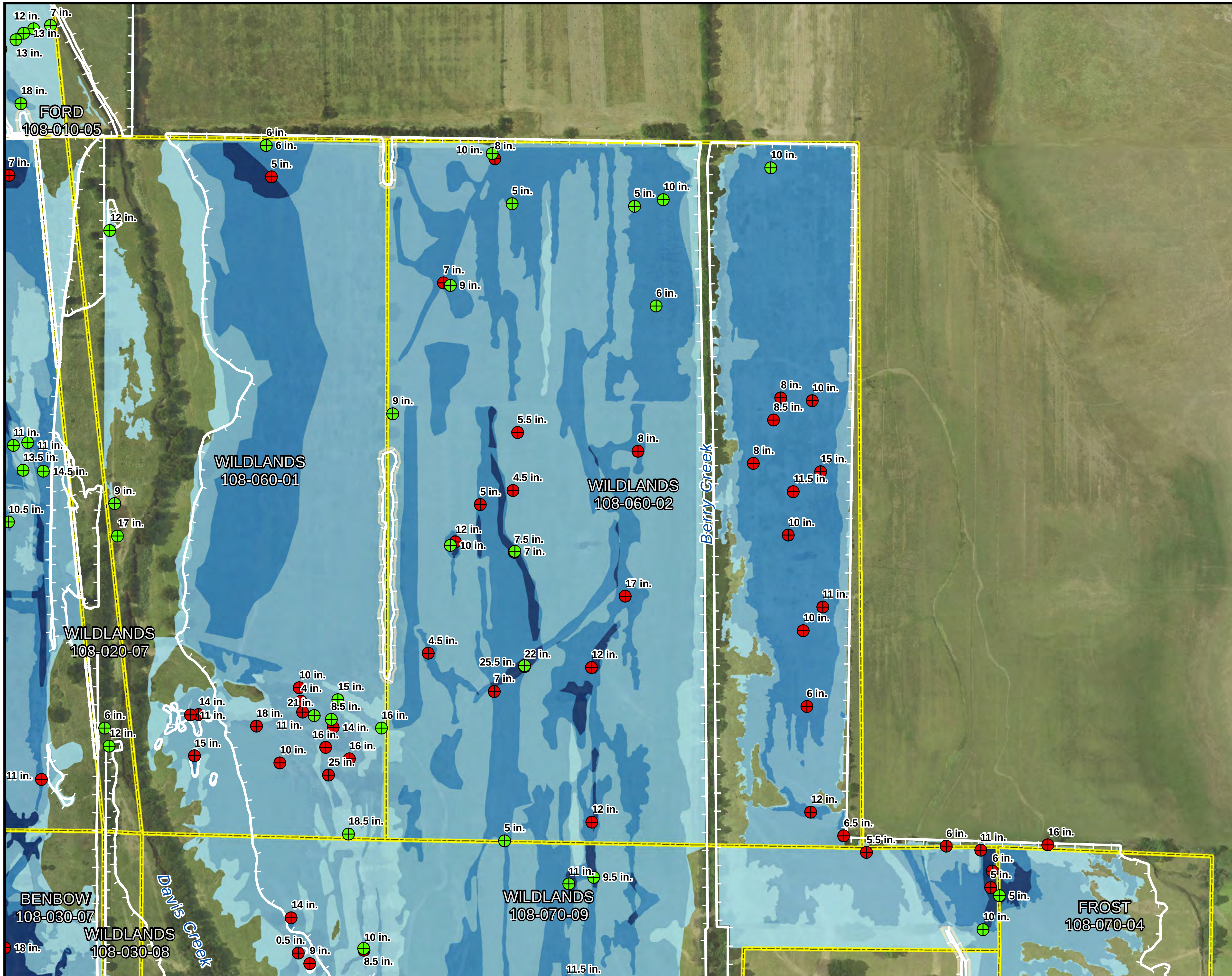

Offsite Mitigation Parcel

Project Bypass Footprint

Permanent Impact Area

Temporary Impact Area

Wetlands

Jurisdictional Wet Meadow

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1 Month

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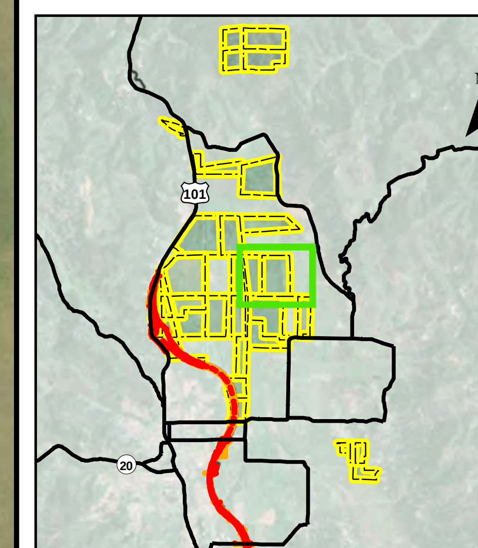

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0 200 400 Feet

Sheet N-25

Wetland Inundation Extent and Duration of Ponding Willits Bypass Project

WILDLANDS

108-060-02

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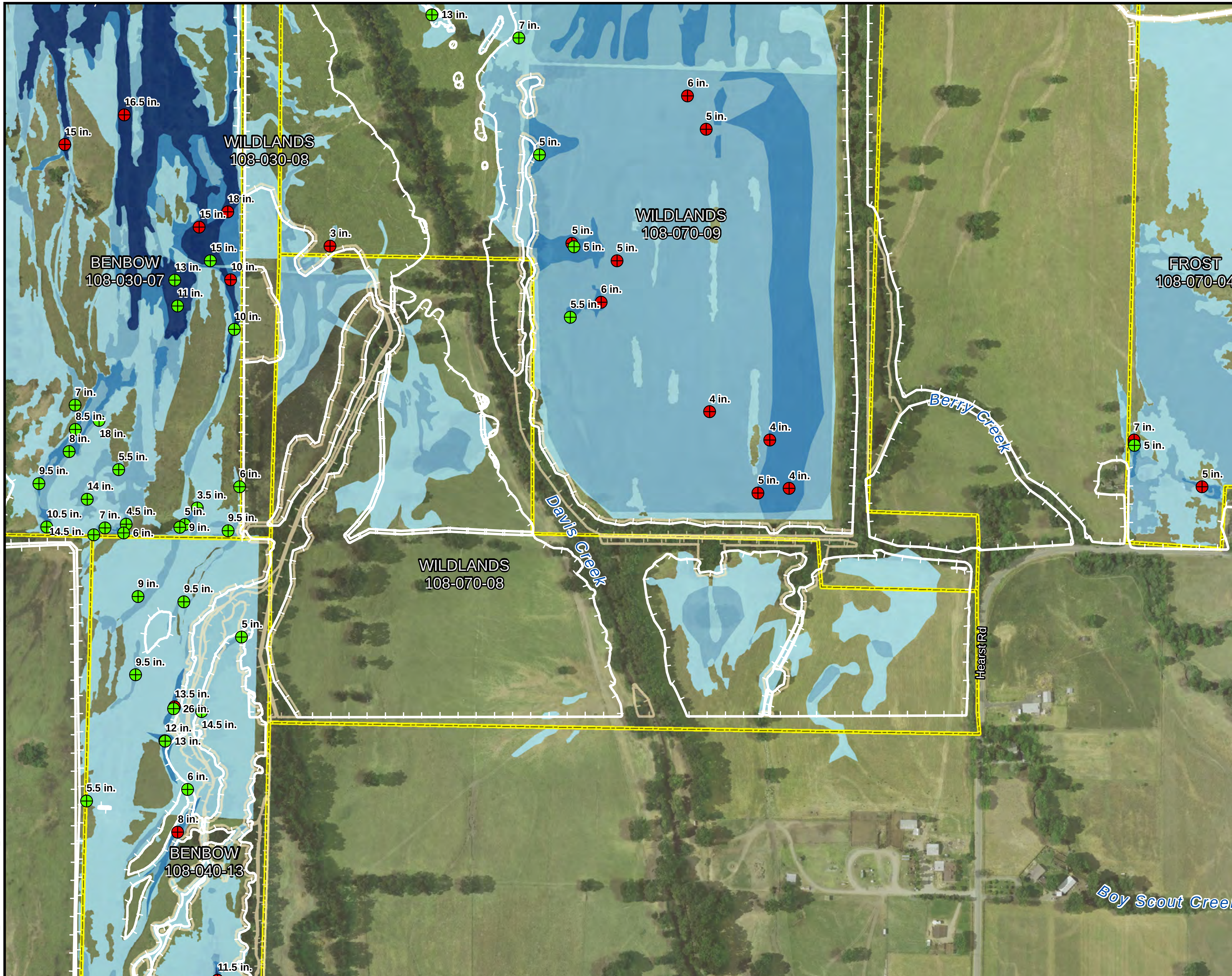

Offsite Mitigation Parcel

Project Bypass Footprint

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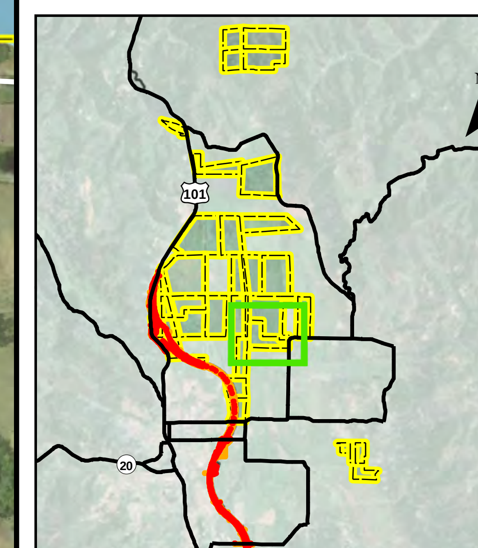

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Sheet N-26

Wetland Inundation Extent and Duration of Ponding Willits Bypass Project

WILDLANDS

108-070-08

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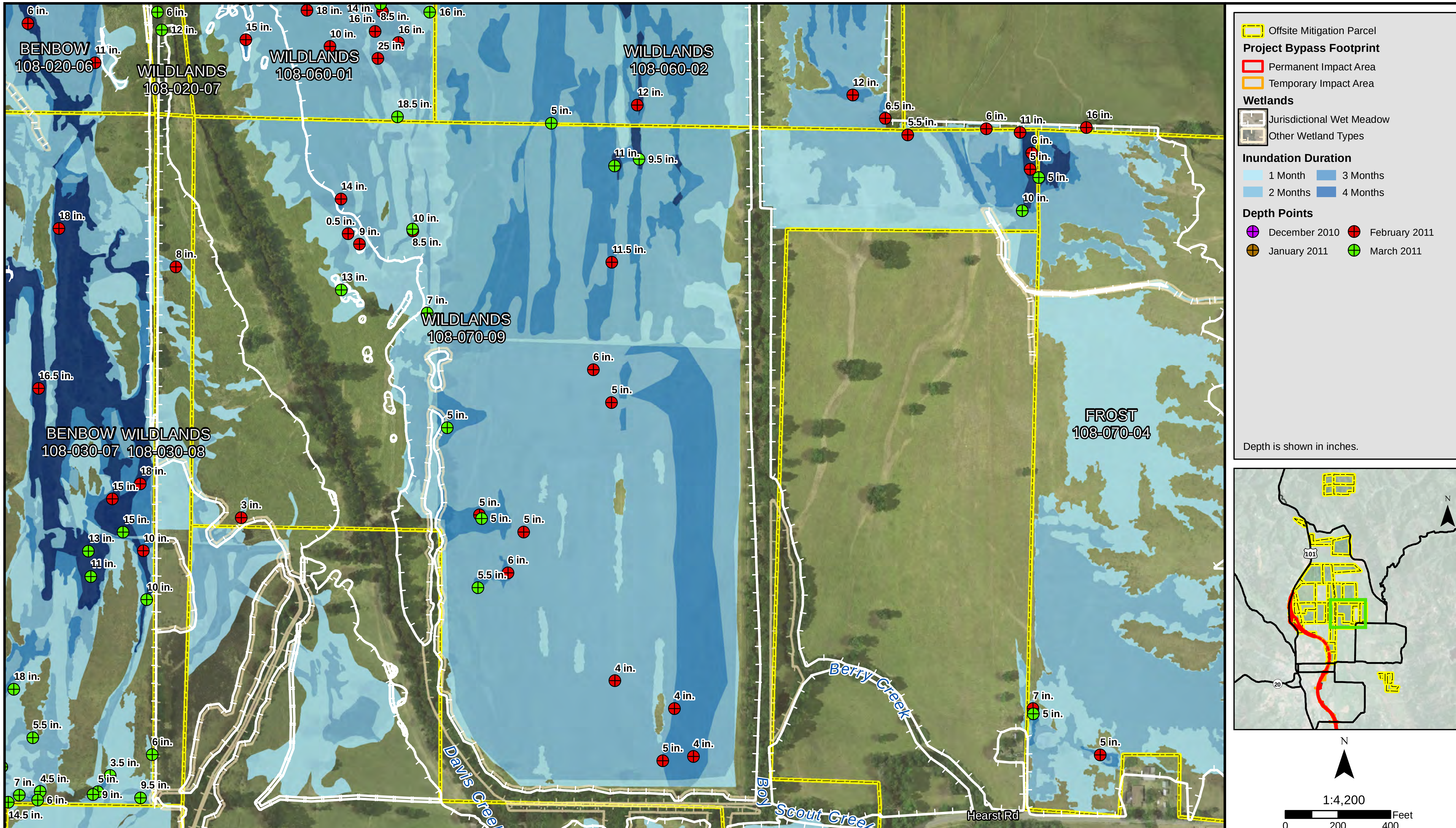

Sheet N-27

Wetland Inundation Extent and Duration of Ponding Willits Bypass Project

WILDLANDS

108-070-09

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