Determining Impacts and Mitigation For Road Projects

Reference Guide Appendix C

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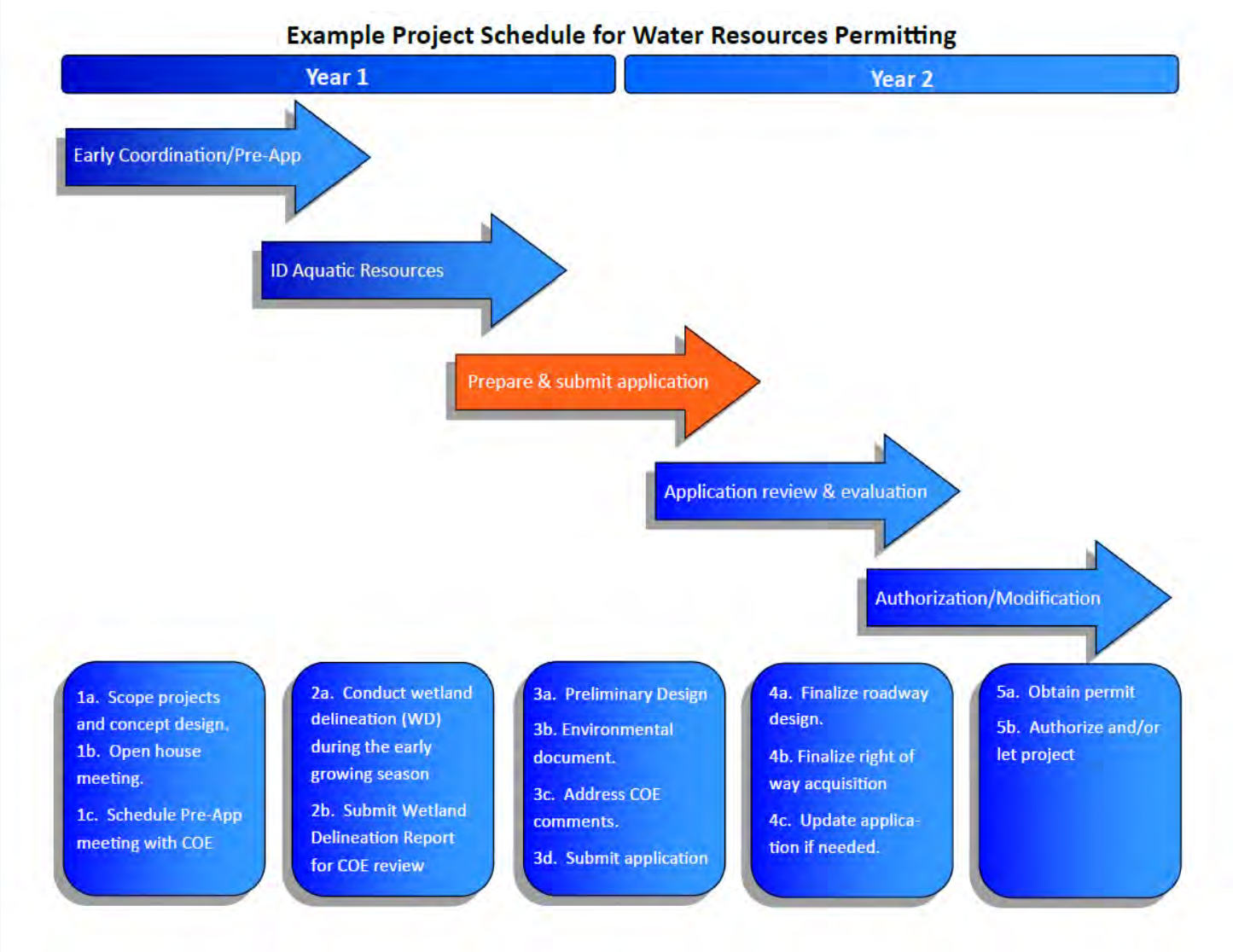

Example Project Schedule for Water Resources Permitting
Year 1
Year 2
Early Coordination/Pre-App
ID Aquatic Resources
Prepare & submit application
Application review & evaluation
Authorization/Modification
1a. Scope projects and concept design.
1b. Open house meeting.
1c. Schedule Pre-App meeting with COE
2a. Conduct wetland delineation (WD) during the early growing season
2b. Submit Wetland Delineation Report for COE review
3a. Preliminary Design
3b. Environmental document.
3c. Address COE comments.
3d. Submit application
4a. Finalize roadway design.
4b. Finalize right of way acquisition
4c. Update application if needed.
5a. Obtain permit
5b. Authorize and/or let project

Determining Impacts and Mitigation for Road Projects

Provide an overview and summary of impacts during the early coordination phase so we can:

- Advise you of the type of permit needed
- Advise you how much time may be needed for evaluation
- Advise you of potential mitigation requirements
- Identify unique issues that may affect the timeline

Determining Impacts and Mitigation for Road Projects

Basic Requirements:

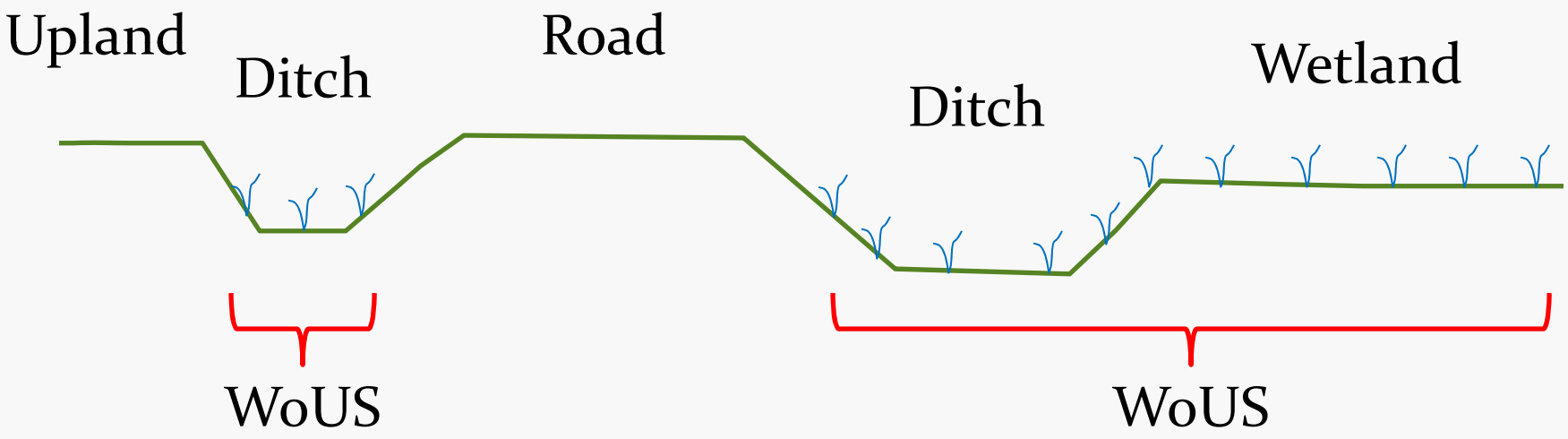
- Depict, label and tabulate the size of all waters in the project area
  - Differentiate by type of water

- Depict, label and tabulate the size of all impacts to waters in the project area
  - Differentiate by type and permanence of impact

- Mitigation is generally required for the footprint of the permanent impacts in waters (Waters of the U.S.)
  - There may be impacts that require authorization but do NOT require compensatory mitigation

Determining Impacts and Mitigation for Road Projects

Existing Cross-Section



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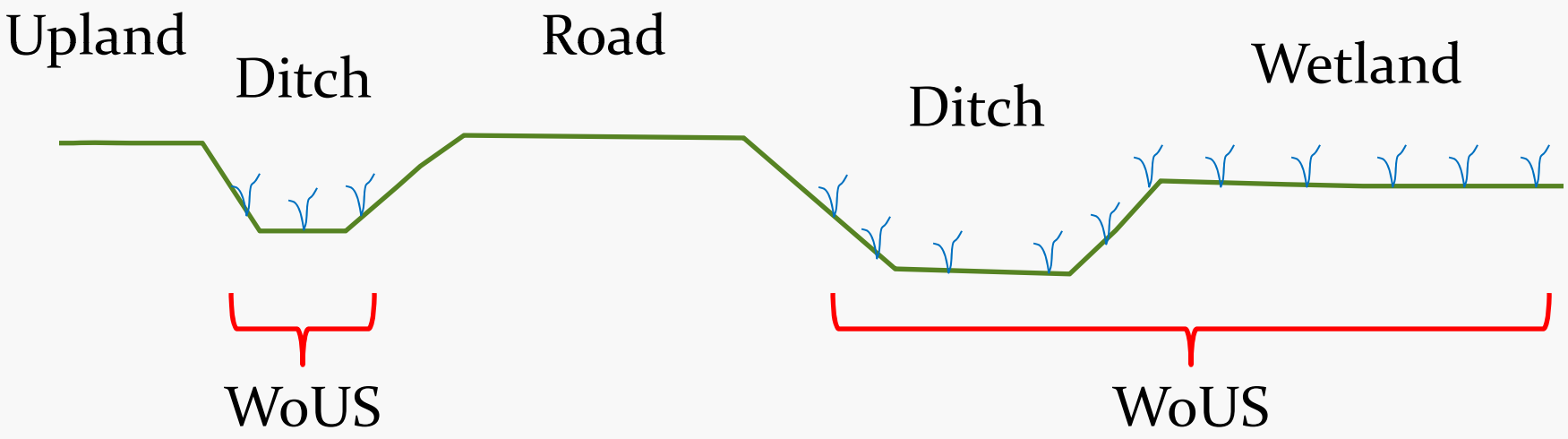
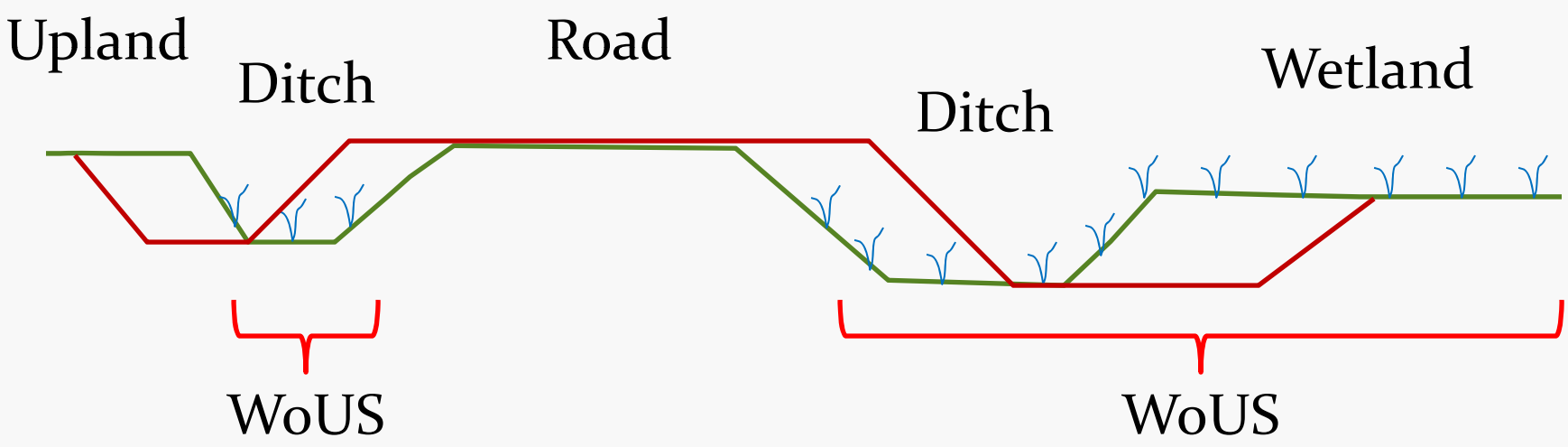
Existing Cross-Section



Determining Impacts and Mitigation for Road Projects

Proposed Cross-Section



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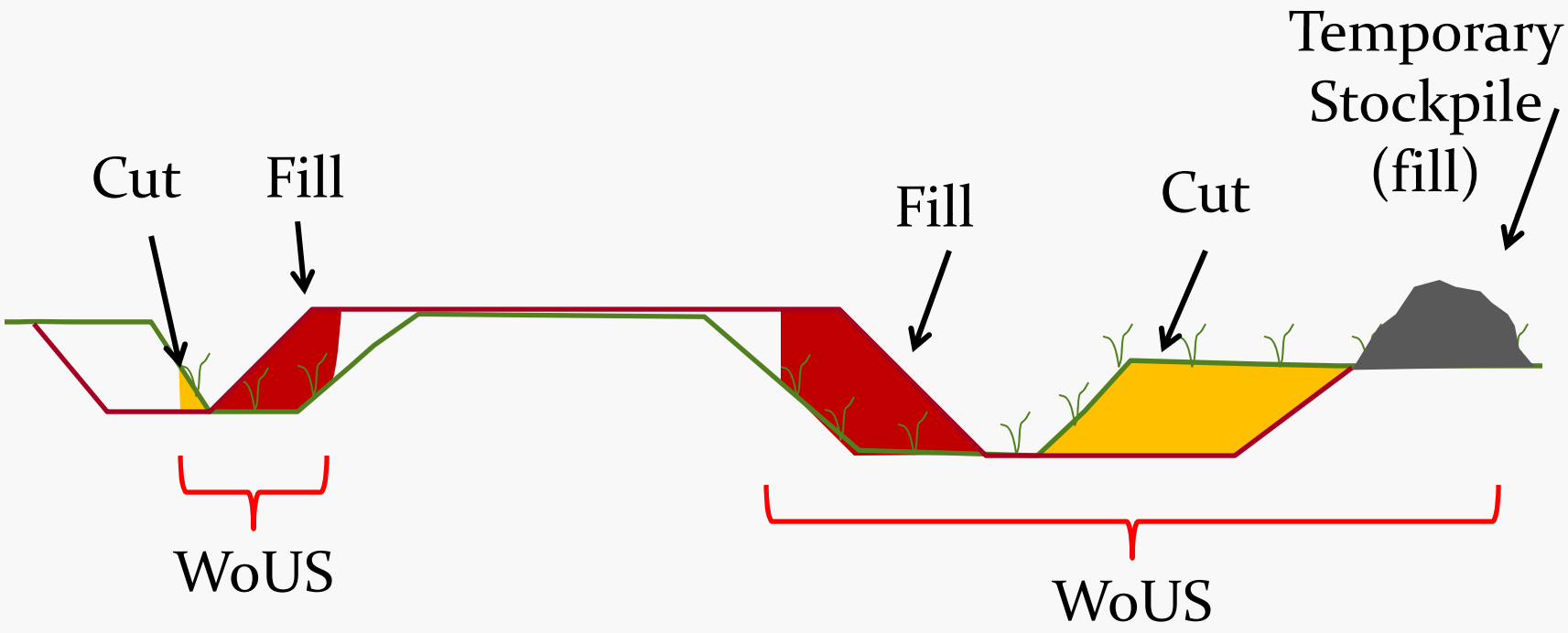

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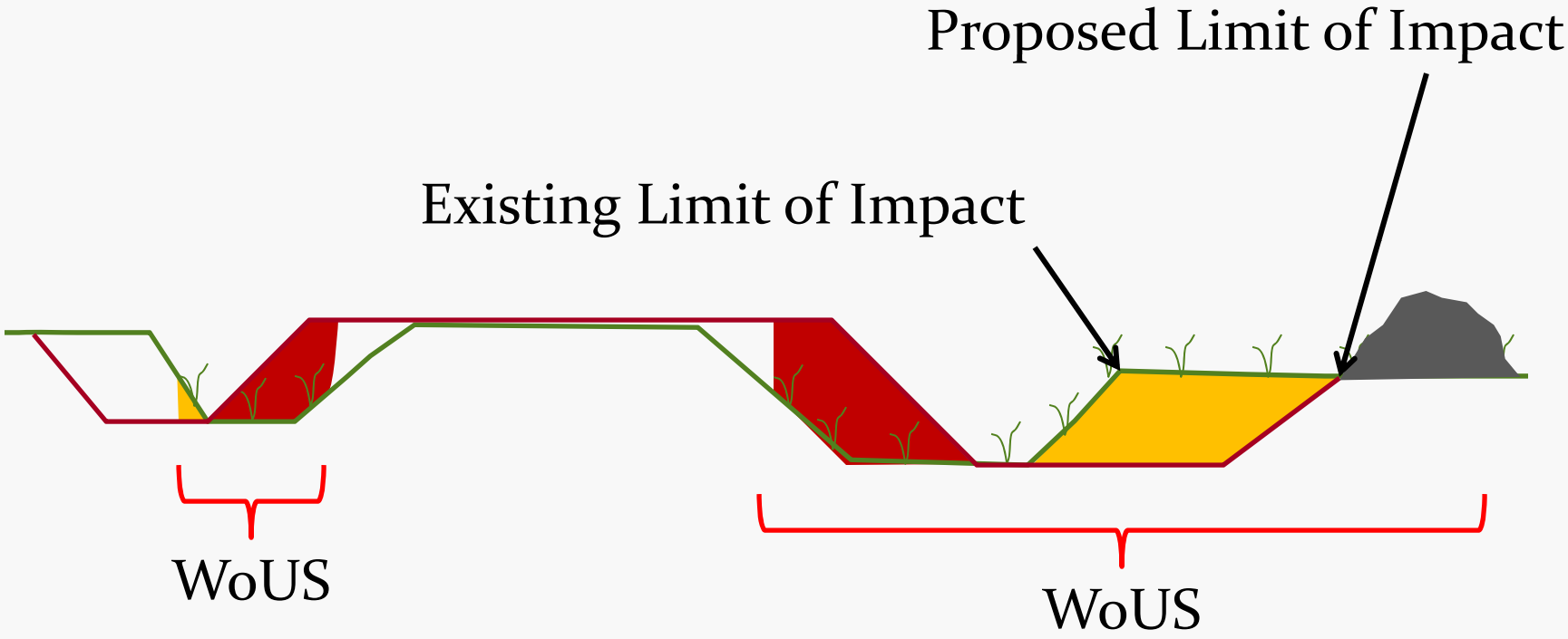

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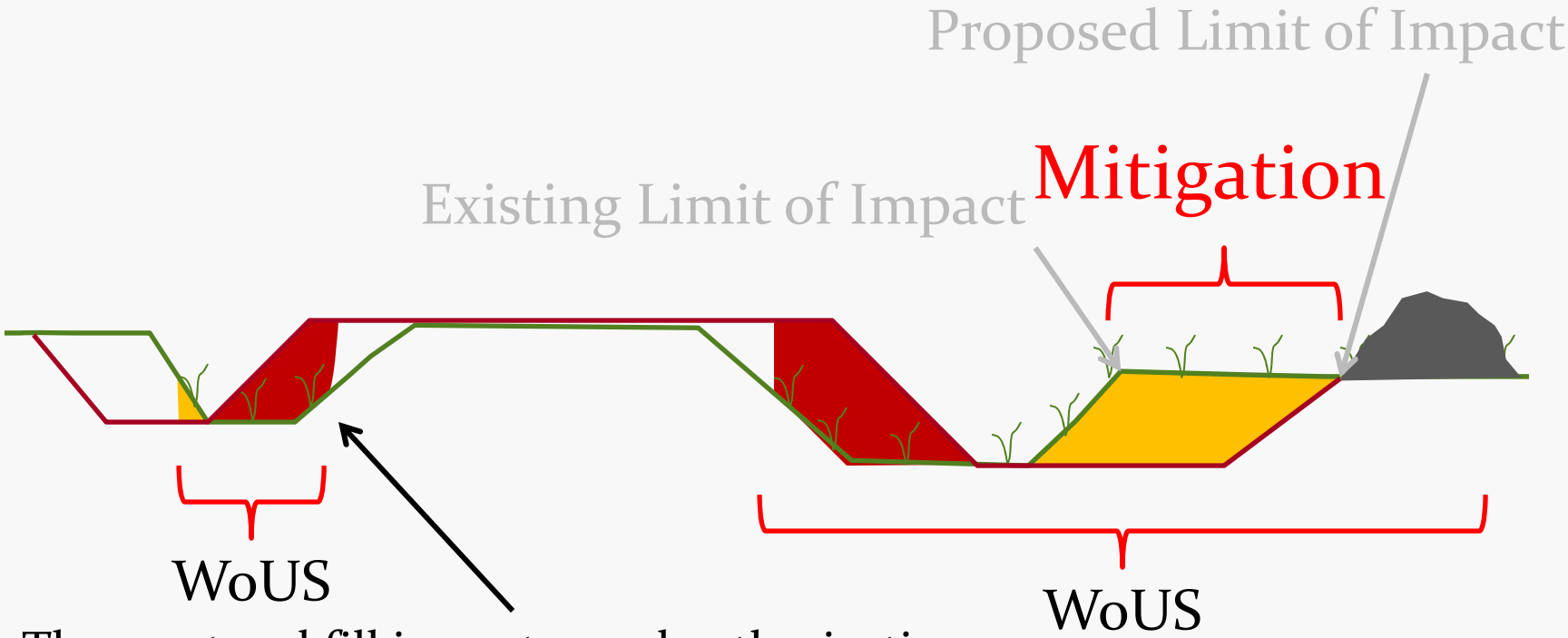

These cut and fill impacts need authorization, but the function is replaced with an in-kind ditch in immediately adjacent uplands, so no mitigation is required.

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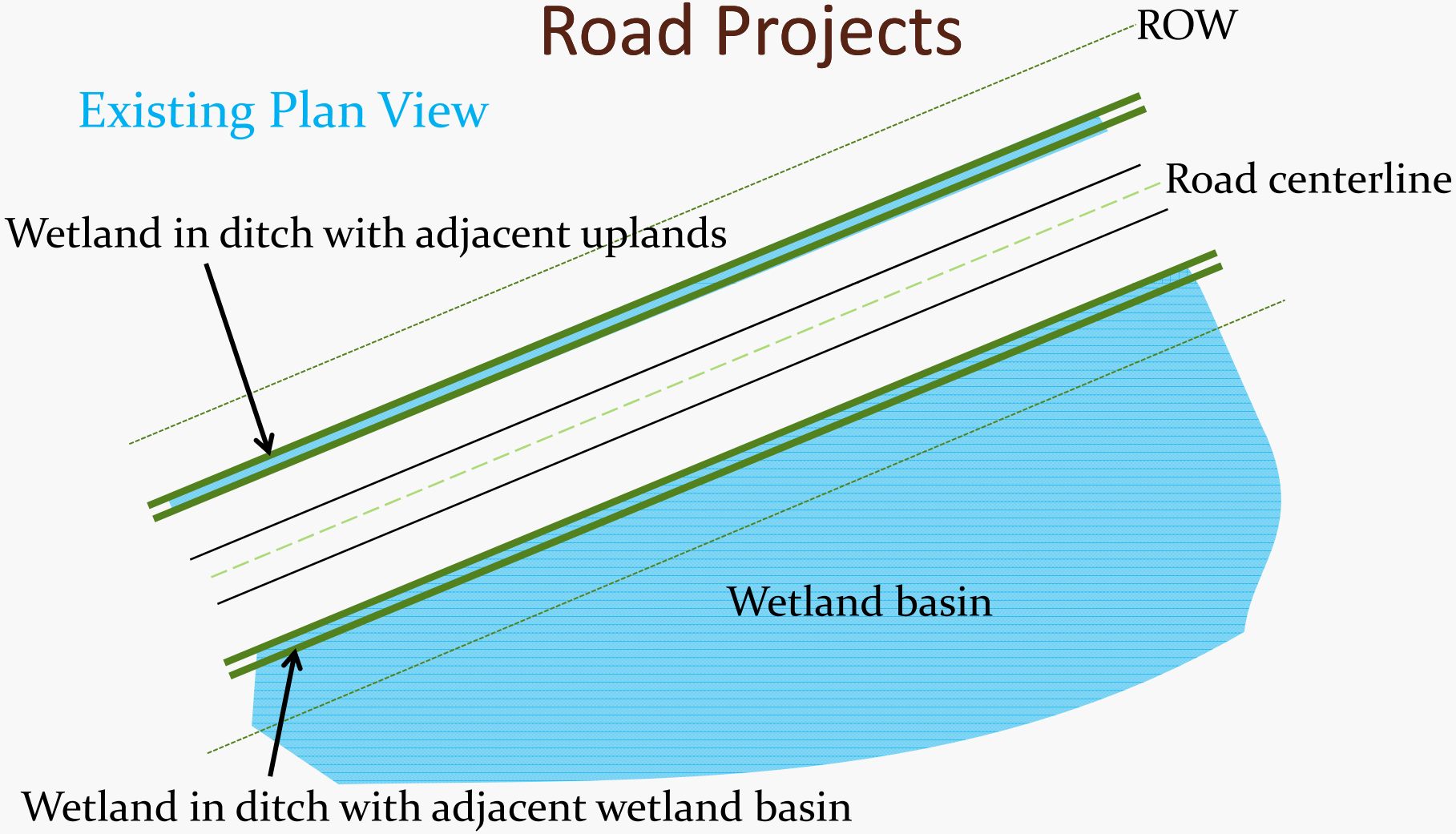
Existing Plan View



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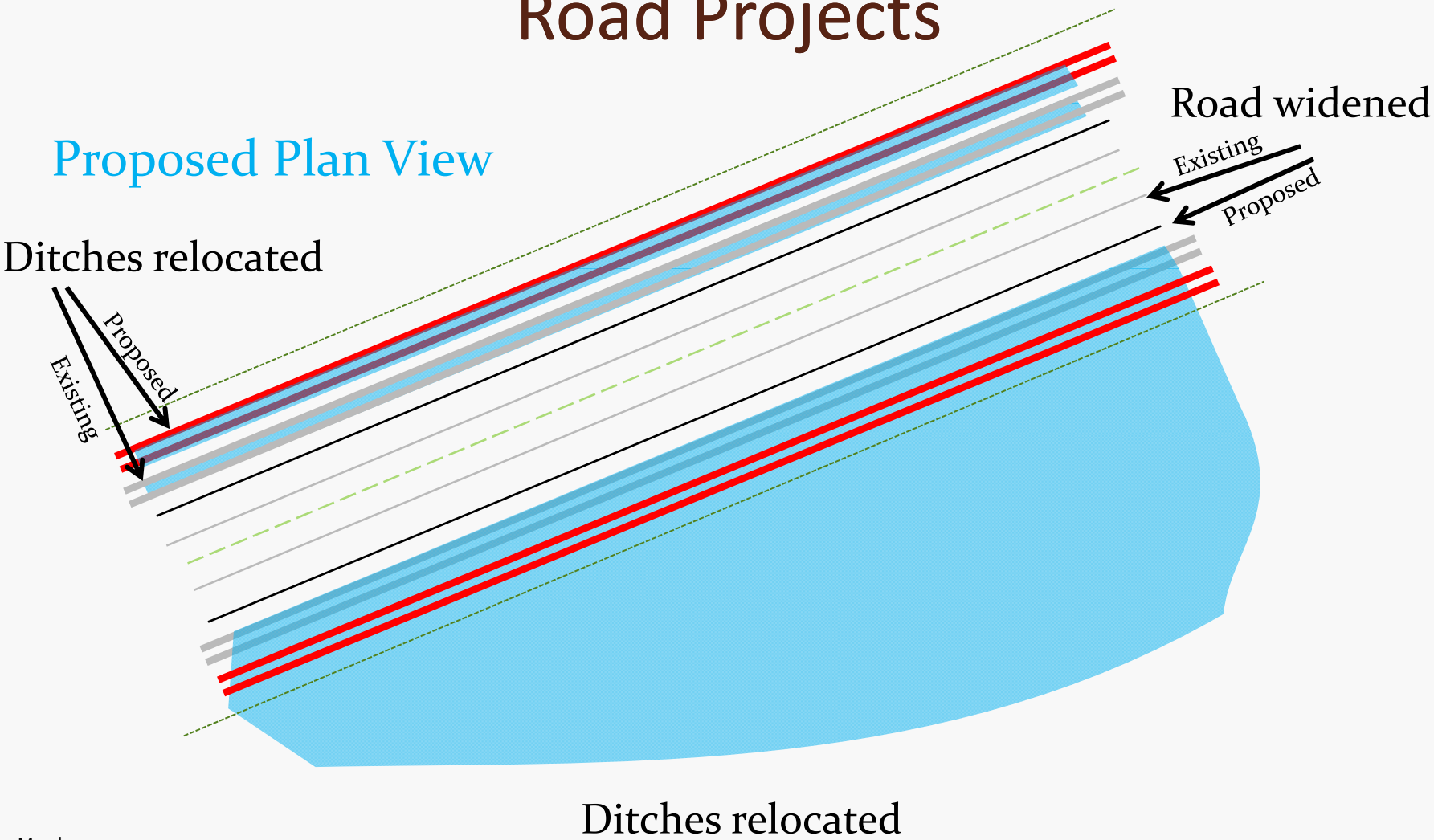
Proposed Plan View



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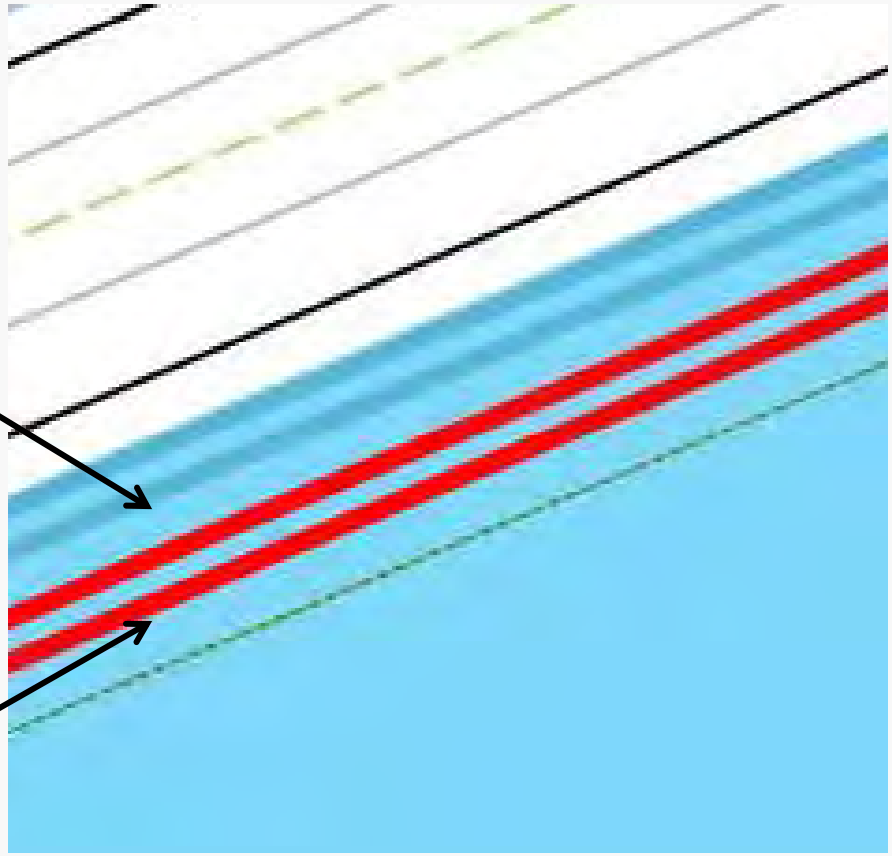
Proposed Plan View

Existing limit of impact
(outside top of ditch bank)



Proposed limit of impact
(outside top of ditch bank)

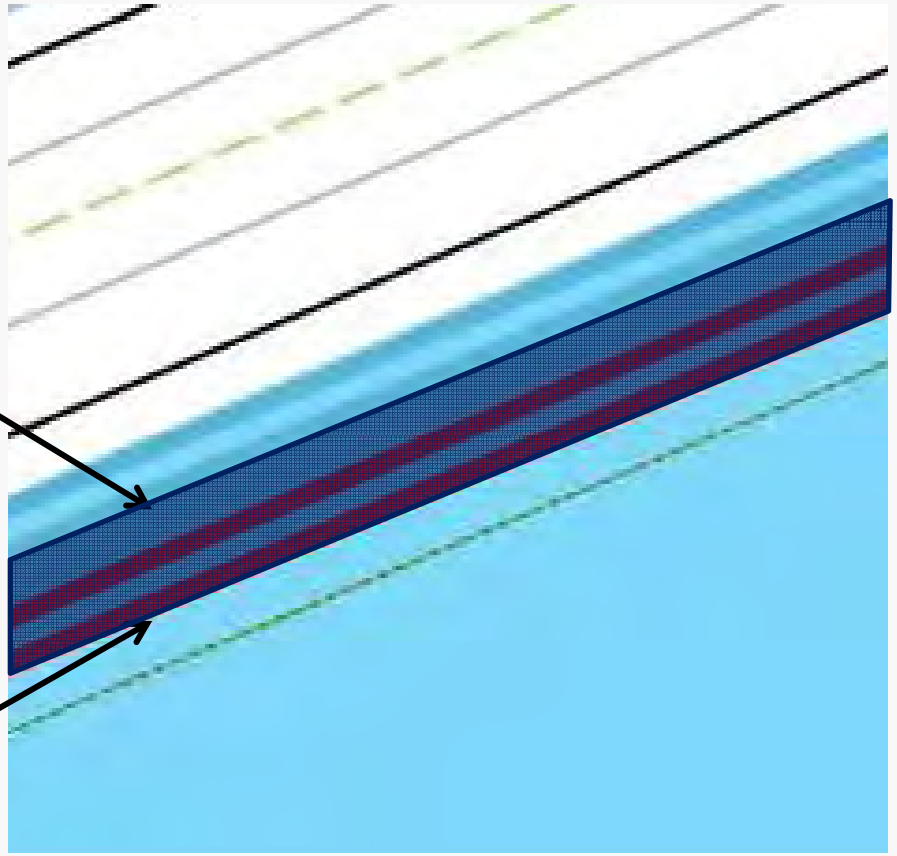
Determining Impacts and Mitigation for Road Projects

Proposed Plan View

Existing limit of impact
(outside top of ditch bank)

Mitigation requirement

Proposed limit of impact
(outside top of ditch bank)



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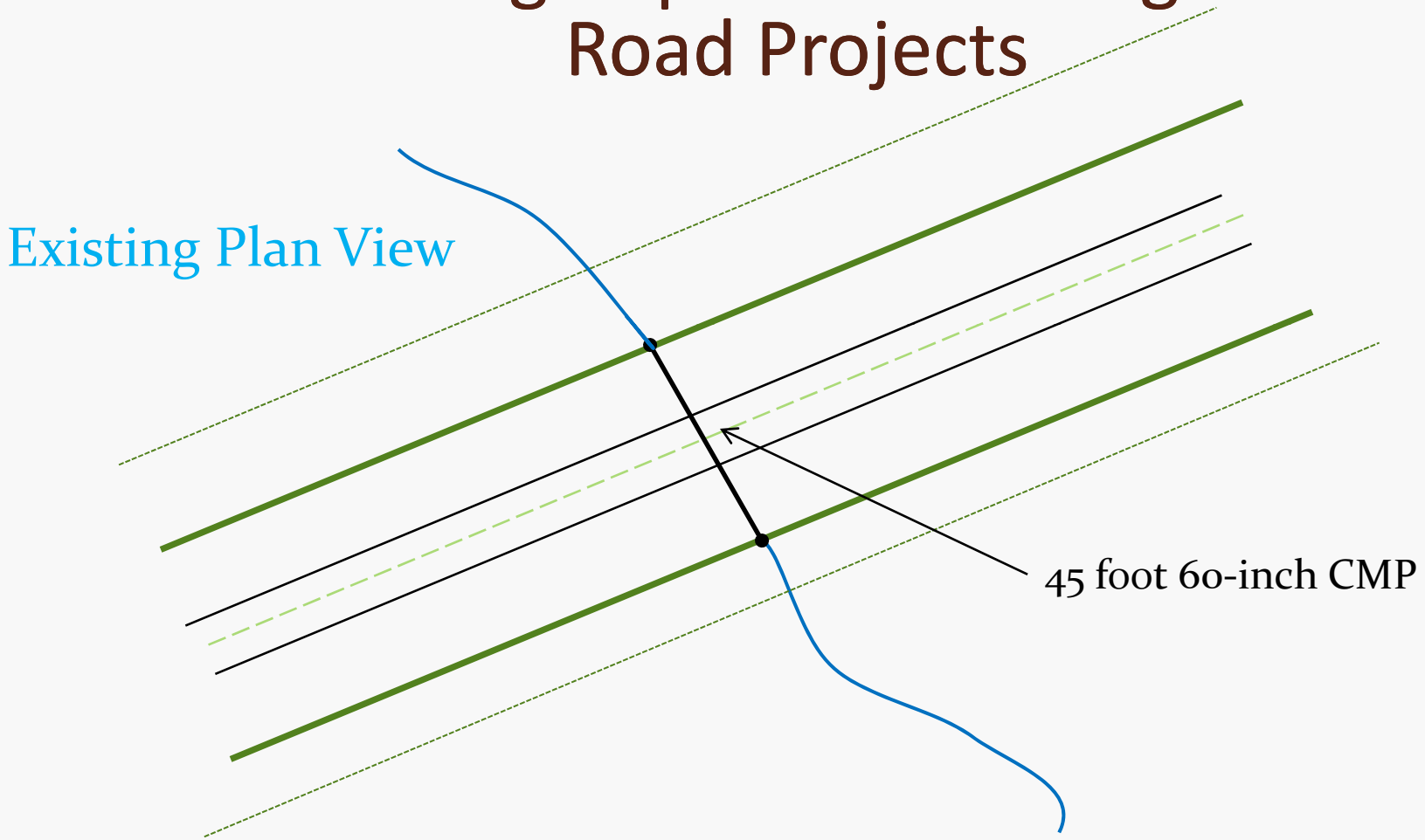

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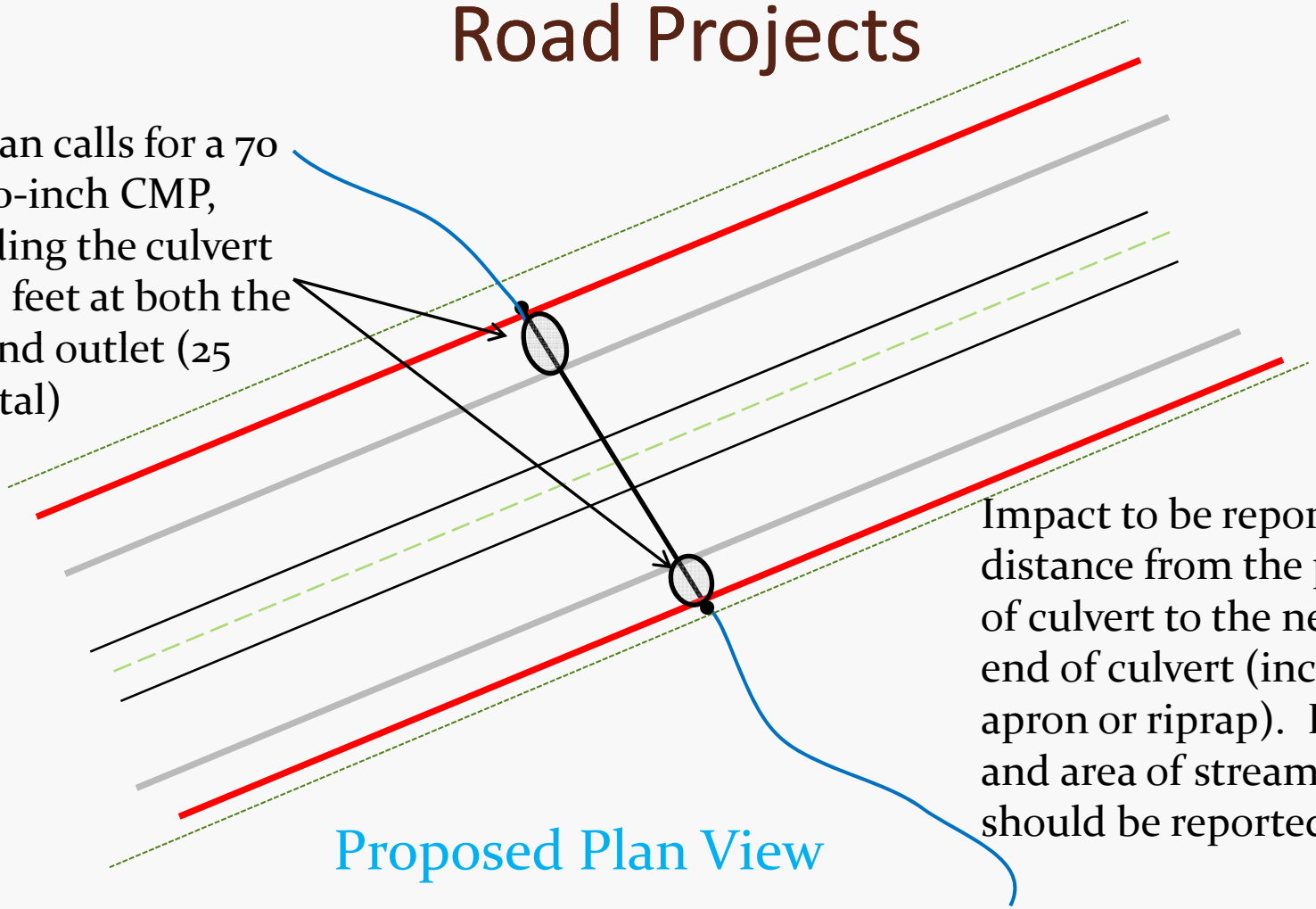
The plan calls for a 70 foot 60-inch CMP, extending the culvert by 12.5 feet at both the inlet and outlet (25 feet total)



Proposed Plan View

Impact to be reported is the distance from the previous end of culvert to the new proposed end of culvert (including any apron or riprap). Both length and area of stream impact should be reported.

Determining Impacts and Mitigation for Road Projects

Aquatic Resource Impact Summary from MN Joint Application (Part Four)

Aquatic Resource ID (as noted on overhead view)	**Aquatic Resource Type** (wetland, lake, tributary etc.)	**Type of Impact** (fill, excavate, drain, or remove vegetation)	**Duration of Impact** Permanent (P) or Temporary (T)[1]	**Size of Impact**[2]	**Overall Size of Aquatic Resource** [3]	**Existing Plant Community Type(s)** in Impact Area[4]	**County, Major Watershed #, and Bank Service Area #** of Impact Area[5]
Wetland A	Wetland	Fill	P	0.23 ac	NA	Fresh Wet Meadow	Grant Co. BSA 4
Wetland A	Wetland	Excavate (Cut)	P	0.14 ac	NA	Fresh Wet Meadow	Grant Co. BSA 4
Wetland B	Wetland	Fill	P	0.21 ac	NA	Shallow Marsh	Grant Co. BSA 4
Wetland C	Wetland	Fill	T(60 days)	0.45 ac	NA	Shallow Marsh	Grant Co. BSA 4
Tributary 1	Tributary	Fill	P	250 sq ft 25 linear ft	NA	NA	Grant Co. BSA 4

Determining Impacts and Mitigation for Road Projects

Describe proposed mitigation in Joint Application Form

- Road Bank – Attachment E
- Any mitigation <u>not</u> provided by Road Bank – Attachment D

The mitigation required by the Clean Water Act and by the Wetland Conservation Act may not always be the same because the two laws regulate different impacts.

If an applicant is not proposing to mitigate for some or all of the impacts in Part Four, then justify that in Attachment B.

Determining Impacts and Mitigation for Road Projects

Local Road Replacement Table – Attachment E of Joint Application

Wetland Impact ID (as noted on overhead view)	**Type of Impact** (fill, excavate, drain)	**Size of Impact** (square feet or acres to 0.01)	**Existing Plant Community Type(s)** in Impact Area[1]	**County, Major Watershed #, and Bank Service Area #** of Impact[2]

Replacement/Compensatory Mitigation Table – Attachment D of Joint Application

Wetland Bank Account #	**County**	**Major Watershed #**	**Bank Service Area #**	**Credit Type** (if applicable)	**Number of Credits**

Determining Impacts and Mitigation for Road Projects

Summary:

✓Depict, label and tabulate all waters by type (wetland plant community, tributary, etc.)
✓Depict, label and tabulate all impacts by type (cut, fill, etc.) and permanence (permanent, temporary)

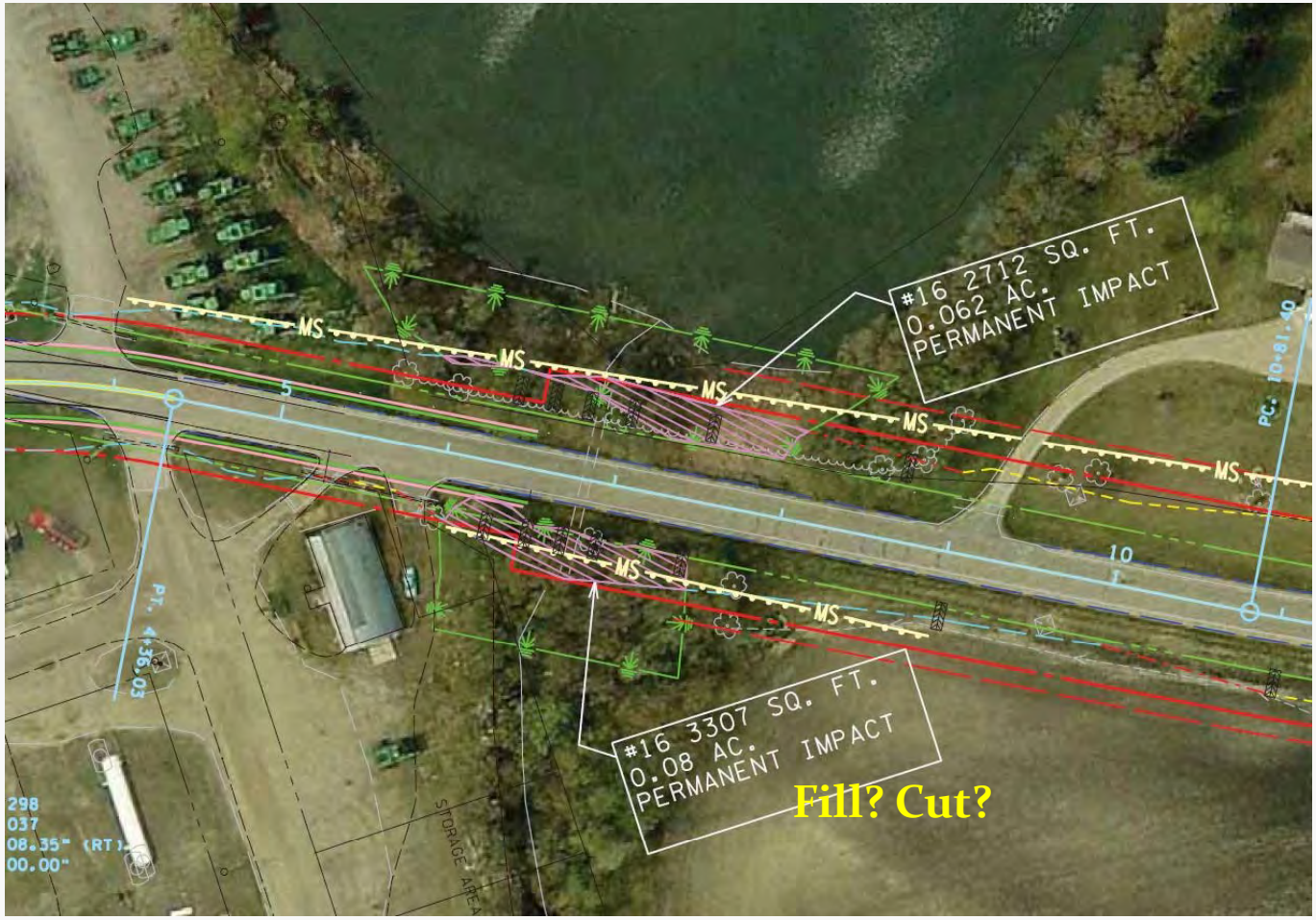
Example - Expand road and an <u>in-kind</u> ditch into uplands:

- ✓ Cut and/or fill in WoUS needs to be authorized
- ✓ Generally no mitigation requirement

Example - Expand road and an <u>in-kind</u> ditch into WoUS:

- ✓ Cut and/or fill needs to be authorized
- ✓ Mitigation required for <u>additional encroachment</u> into WoUS

Determining Impacts and Mitigation for Road Projects



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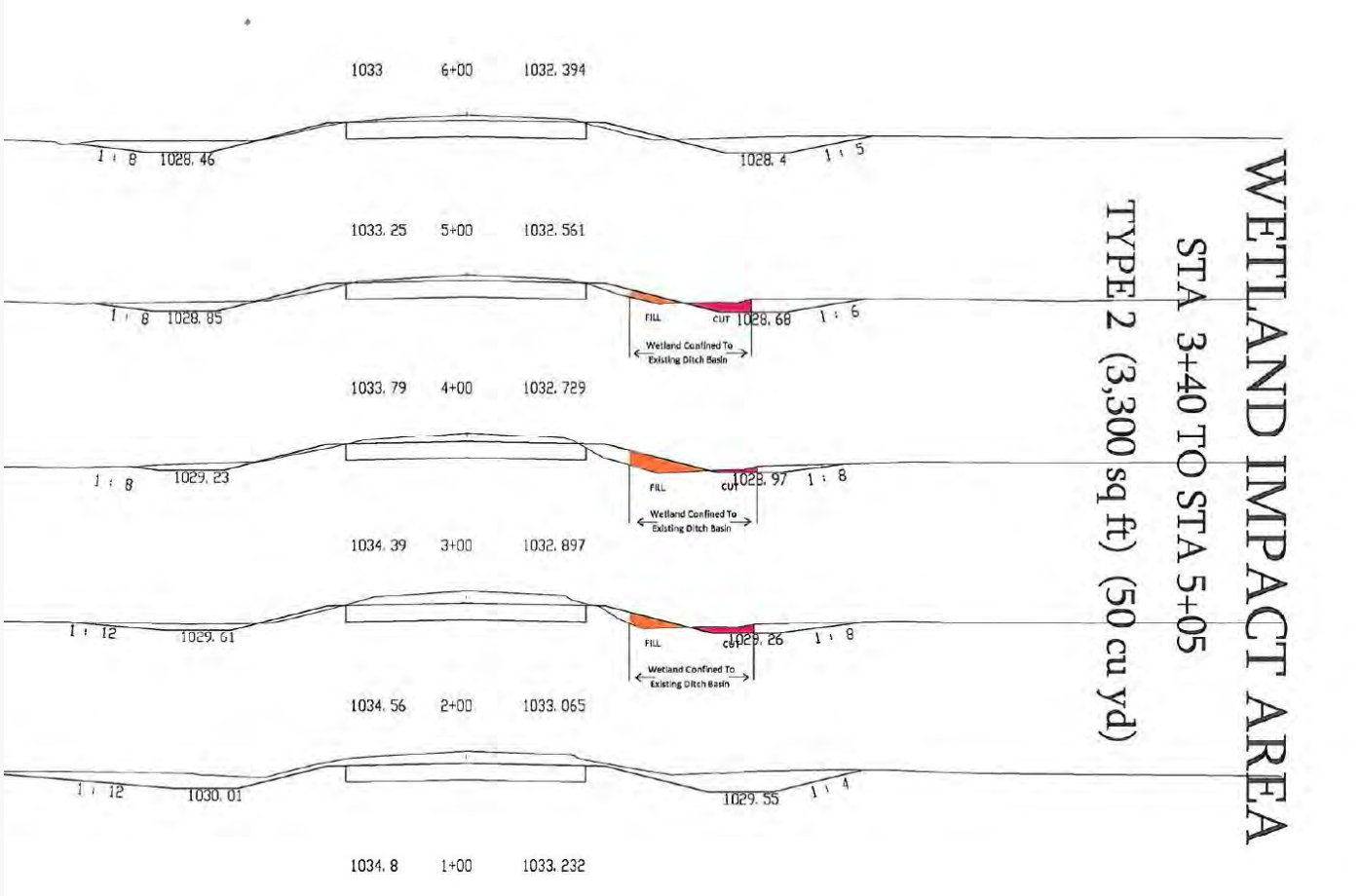

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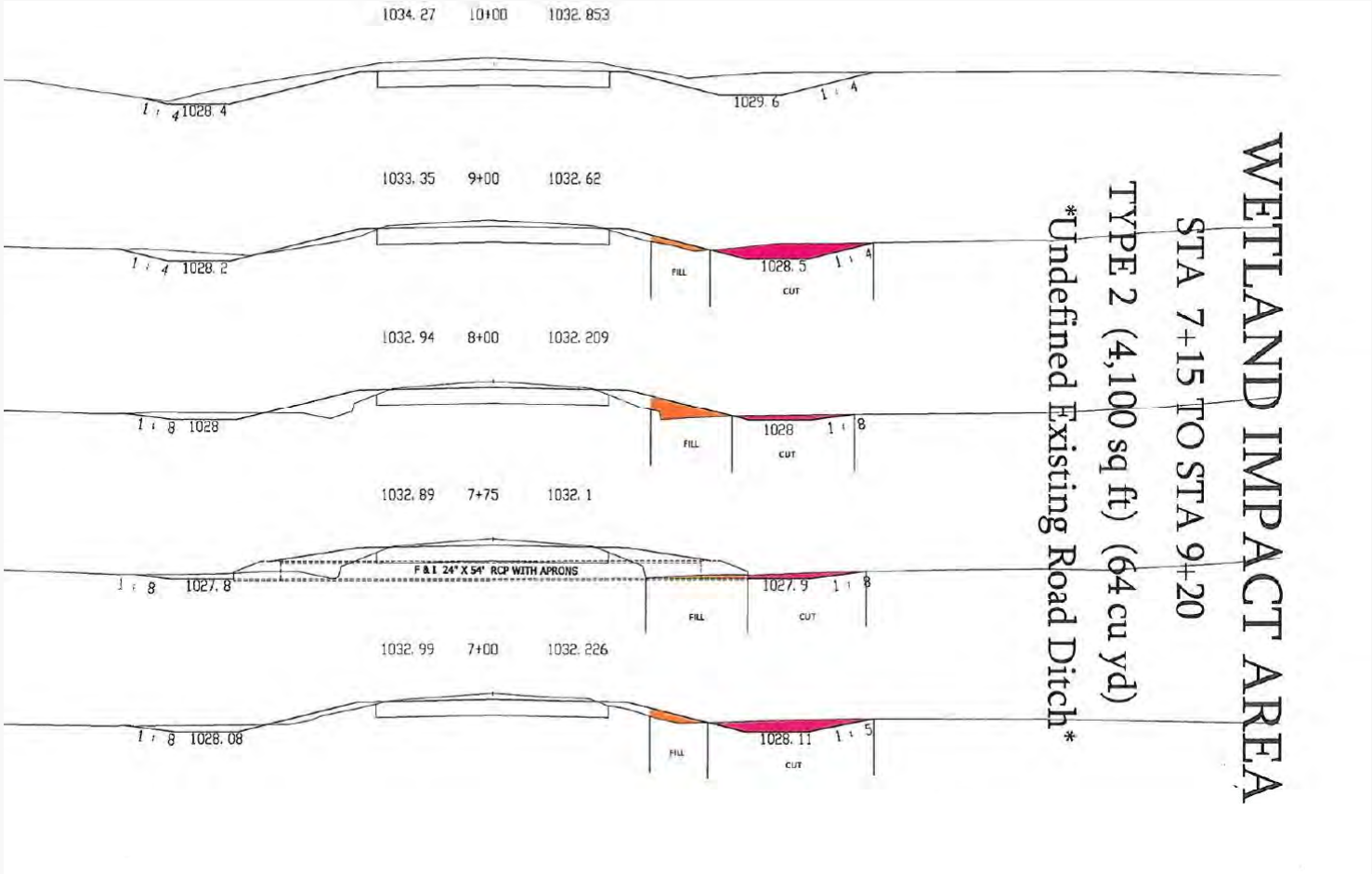

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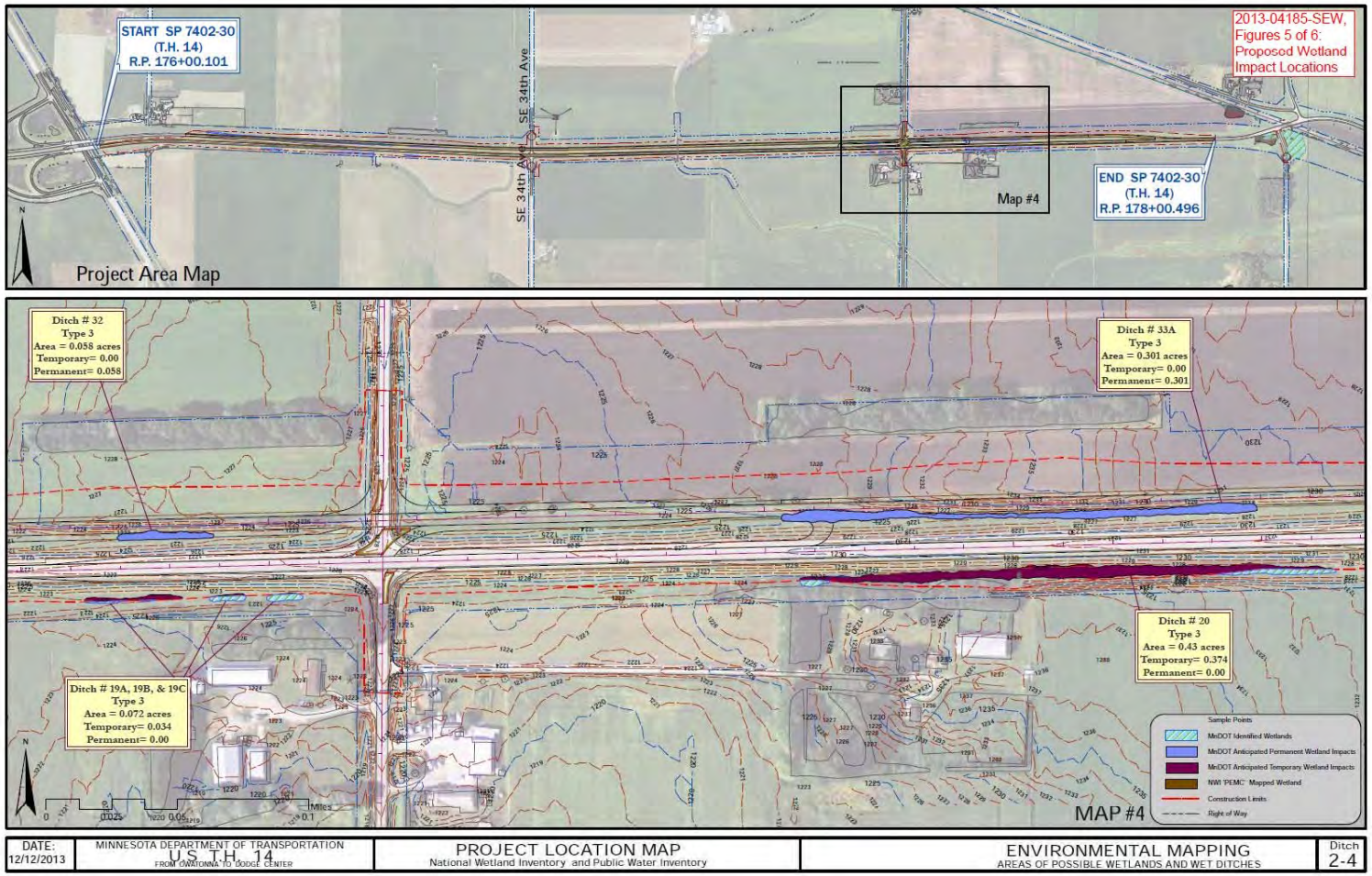

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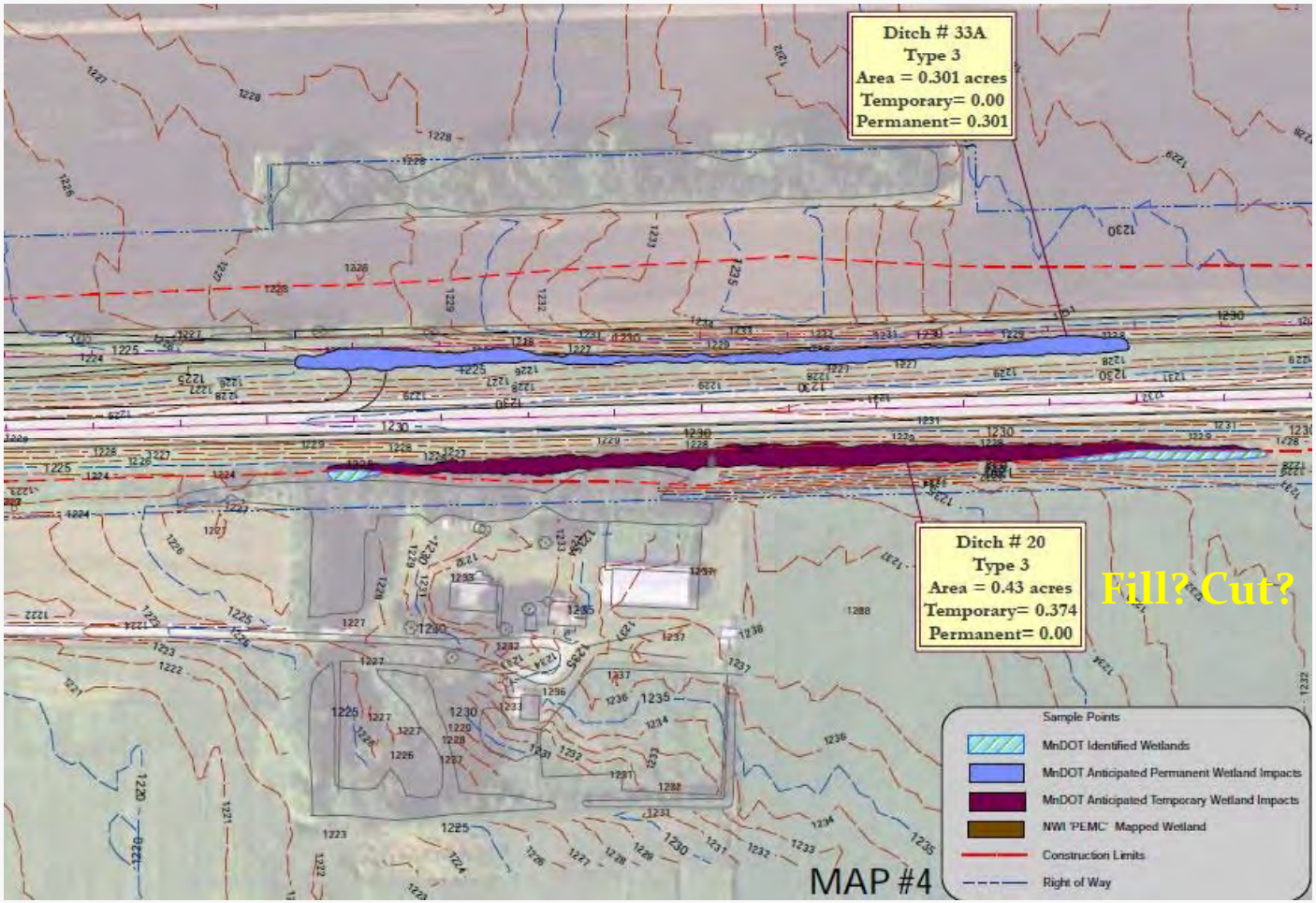

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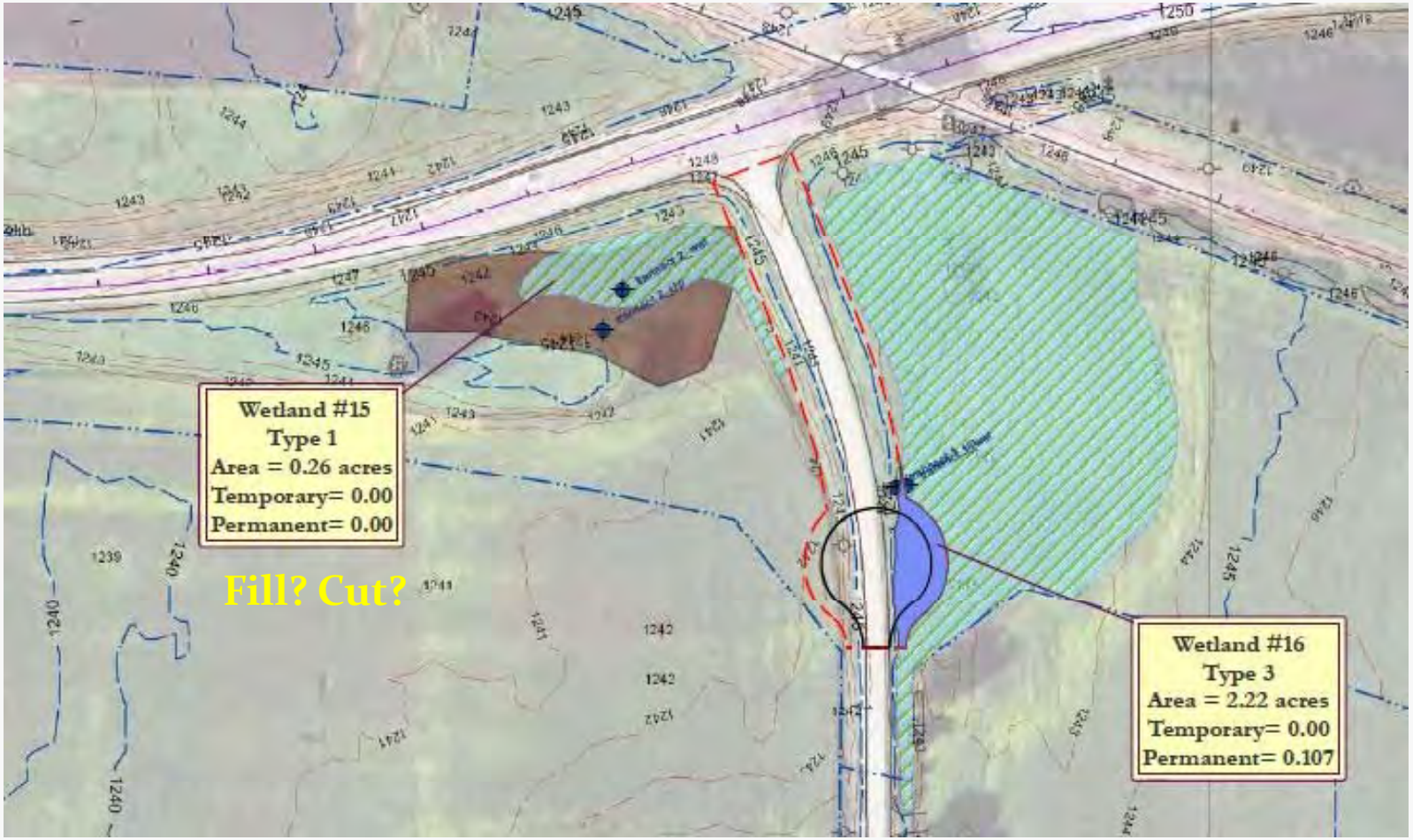

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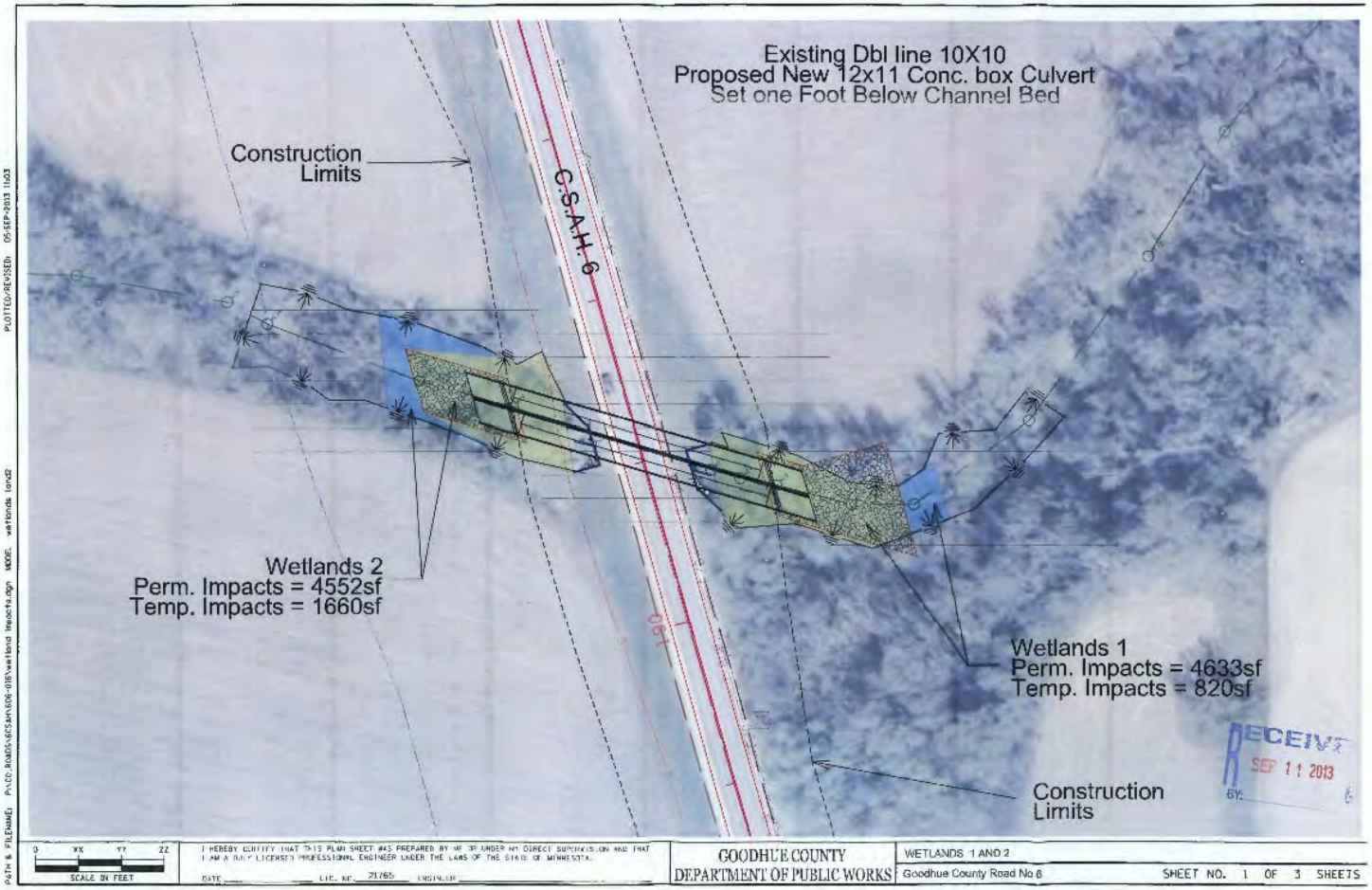

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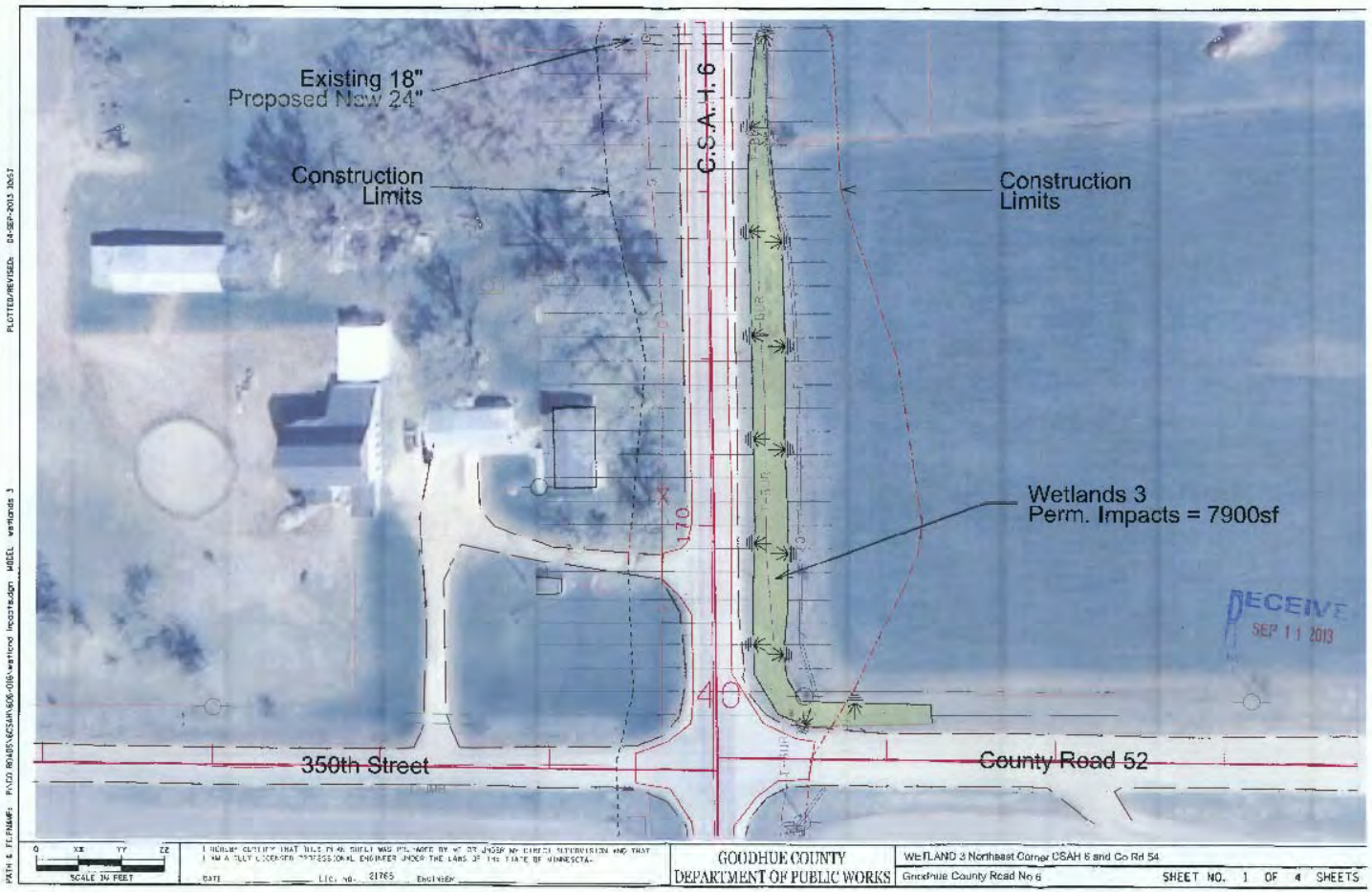

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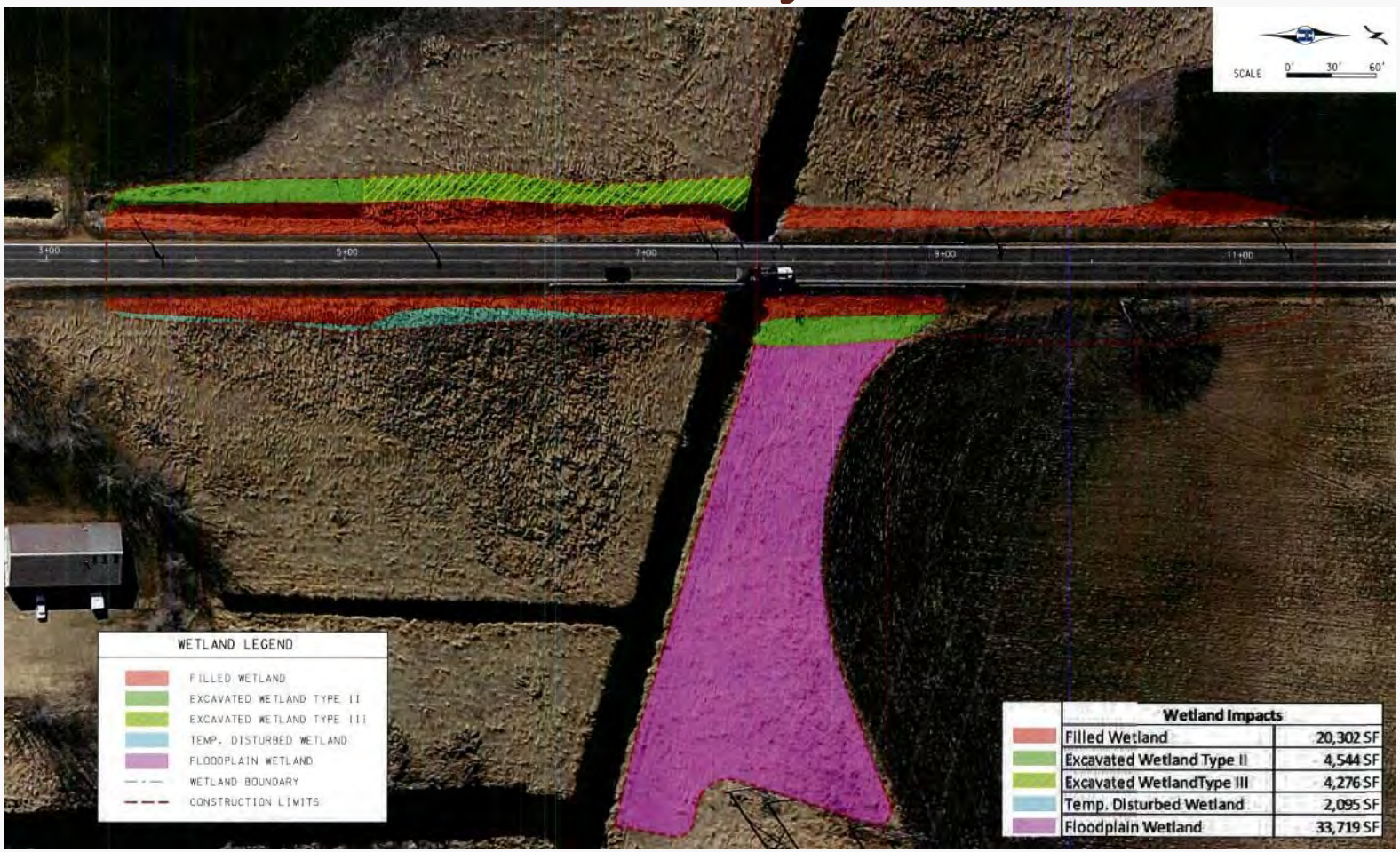

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Questions?

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