

WFL Sample Plan Sheets

A Sheets

Title Sheet, Symbols and Abbreviations, Vicinity Maps

Revised: October 2022

GENERAL

The Sample Plans contains three examples.

Example 1 (Going to the Sun Road) includes all elements that might be included in Section A of the Plan set:

- A.1 (Title Sheet)
- A.2 (Sheet Index)
- A.3 (Plan Symbols and Abbreviations)
- A.4 (Vicinity Map)

Example 2 (Enaville-Thompson Pass Road) only includes the Title Sheet. The purpose of including this example is to show how the entire Sheet Index can be displayed on Sheet A.1, rather than having a separate sheet for the Sheet Index.

Example 3 is a Vicinity Map sheet only, and the purpose of including it is to show how multiple vicinity maps should be shown on one plan sheet.

TITLE SHEET

To create the Title Sheet, begin by going to <https://highways.dot.gov/federal-lands/design/plan-prep-wfl-templates> and downloading the *general-info.dgn* file. This file contains the seed template that is used to create the project Title Sheet.

Project Number and Name

The project number and name must match exactly the project number and name in the accounts table (Delphi).

Type of Construction

Enter a short description of the major work associated with the project. This enables bidders to see immediately the main items of work.

Examples:

- Subexcavation, base, and paving
- Grading, aggregate base, asphalt pavement, drainage, special rock embankment and guardrail
- Guardrail replacement
- Bridge replacement, grading, base, paving, MSE walls, masonry
- Bank stabilization, AOP pipe, bridge construction
- Bridge construction, drainage, excavation, bridge demolition, and roadway aggregate

Sheet Index / Section Index

Include a Sheet Index in Section A for all projects. If the entire Sheet Index doesn't fit on Sheet 1, place a Section Index on Plan Sheet 1, and place a Sheet Index on Plan Sheet 2 (see Example 1). If the entire Sheet Index fits on Plan Sheet 1, place it there (see Example 2). Index can be linked or embedded.

Ensure the section names listed in the Section Index match the section names in the Sheet Index and match the section names entered in the Summary of Quantities tables.

Section Order

SECTION A - Include Section A in Plan sets for all projects. Section A contains the following:

- Title Sheet (all projects)
- Sheet Index (when the entire sheet index does not fit on the Title Sheet)
- Symbols and Abbreviations (all projects)
- Vicinity Map(s) - include a separate vicinity map when the vicinity map on the Title Sheet does not provide sufficient detail

SECTION B - Include Section B in Plan sets for all projects. Section B always contains the following:

- Summary of Quantities

SECTION C - Always place typical sections in Section C. If a project doesn't have typical sections, Section C may be used for other topics.

SECTION D - Always place the Plan-Profile sheets in Section D. If a project doesn't have plan-profile sheets, Section D may be used for other topics.

SECTIONS E through R - For Sections E through R, order the topics based on the logical progression of the project work. Topics are not tied to any specific section letter, but place sections in the following order:

- APPROACH ROADS
- PARKING AREAS
- SOIL EROSION AND SEDIMENT CONTROL
- MATERIALS SOURCES
- DRAINAGE
- WALLS
- SAFETY FEATURES - usually only contains project specific details, Standard Drawings, and Details. Quantities are usually shown within the Plan-Profile section.
- FENCES, GATES, AND CATTLE GUARDS - usually only contains project specific details, Standard Drawings, and Details. Quantities are usually shown within the Plan-Profile section.
- MISCELLANEOUS - for drawings that fit nowhere else, but not weighty enough for a separate section
- WETLAND MITIGATION - or other sections showing off-road work such as LANDSCAPING AND REVEGETATION
- TEMPORARY TRAFFIC CONTROL
- PERMANENT TRAFFIC CONTROL
- Other sections may be added as necessary. Use an arrangement within the guidelines that best fits the project needs. For instance, on a project that consists only of scattered work sites it may be advantageous to use a section for each site.

SECTION S – STRUCTURES - Section S is reserved exclusively for structures plan sheets. When a project includes a bridge, always place the structures plans in Section S. If the project doesn't have a bridge, do not place anything in Section S. On non-bridge projects, if Section T is used, place "reserved" in the sheet/section index for Section S.

See <https://highways.dot.gov/federal-lands/design/plan-prep-wfl/plan-set-order> for more information.

Sheet Order Within Each Section

For Section D, place the sheets in the following order:

- Survey Control
- Tabulation of Quantities
- Plan and Profile Sheets

For Section E and beyond (except Section S), place the sheets in the following order:

- Tabulation of Quantities
- Section specific plans and layouts
- Project specific details
- WFLHD Details and FLH Standard Drawings

For Section S, the Structures Team a typical plan list would be:

- Plan and Elevation
- General Notes and Tabulation of Quantities
- Foundation Layout
- Abutment Layout/Details
- Wingwall Layout/Details
- Pier Layout/Details
- Girder Details
- Typical Section
- Bridge Rail
- Approach Slab
- Reinforcing Bar Lists

Signature Block

Refer to [PDDM Supplement 9.6.4.4-1, Title Sheet Signatures](#) for information on the Signature Block.

Logo

For NPS projects, put the National Park Service logo at the top of the title sheet, and place the USDOT logo in the lower left corner (see Example 1). For all other projects, put the USDOT logo at the top of the plan sheet (See Example 2). Example 2 also shows how to include an A/E consultant's name or logo.

Area Maps

Include the following:

Vicinity Map boundary, North Arrow, scale, project location (Bold), Town/Range, Coverage from Project to highway shown on State Key Map, Features (labeled) – Roads, Rivers/lakes, Hilltops/mountain ranges, ownership boundaries, city/town

PLAN SYMBOLS AND ABBREVIATIONS

Use [Detail Drawing W101-1](#). Do not change the drawing. For non-standard symbols and abbreviations include a legend on the required sheets.

VICINITY MAPS

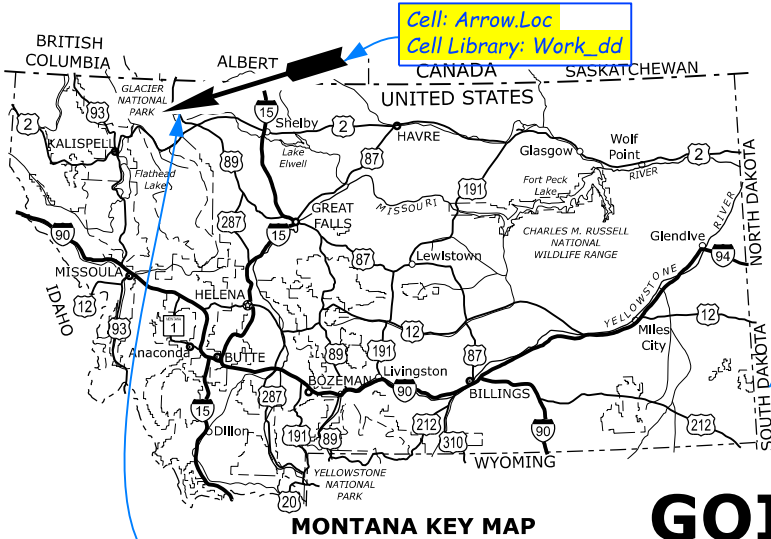
PURPOSE: Describe features that will assist the contractor, Federal Lands and the partners in understanding the directions and locations of the work that is being proposed, the Vicinity map should show the relationship of the project work to the surrounding cities, towns, landmarks, facilities and services.

General Features to Include: Sections, towns, city, North Arrow, scale, Town/Range, Coverage from Project to interstate Highway, Features (labeled) – Roads, Rivers/lakes, Hilltops/mountain ranges, ownership boundaries.

Project specific features to include: project begin/end locations (Bold), resume/suspend construction locations (Bold), Unique Alignment names for each alignment and stationing, government provided staging areas, government provided material/water sources and pits, government provided housing,

(see <https://highways.dot.gov/federal-lands/cadd-support/standards/naming-ord-features> for alignment naming conventions)

PROJECT	SHEET NUMBER
MT NPS GLAC 10(22)	A.1



MONTANA KEY MAP

Rotate and move arrow cell to point to general project location.

Cell: MT
Cell Library: KeyMaps

U. S. DEPARTMENT OF THE INTERIOR NATIONAL PARK SERVICE GLACIER NATIONAL PARK

PLANS FOR PROPOSED PROJECT

MT NPS GLAC 10(22)
NPS PMIS NO. 90959



EXAMPLE 1

Start from Template:
general-info.dgn

Inserted from spreadsheet
at Scale: 1.0

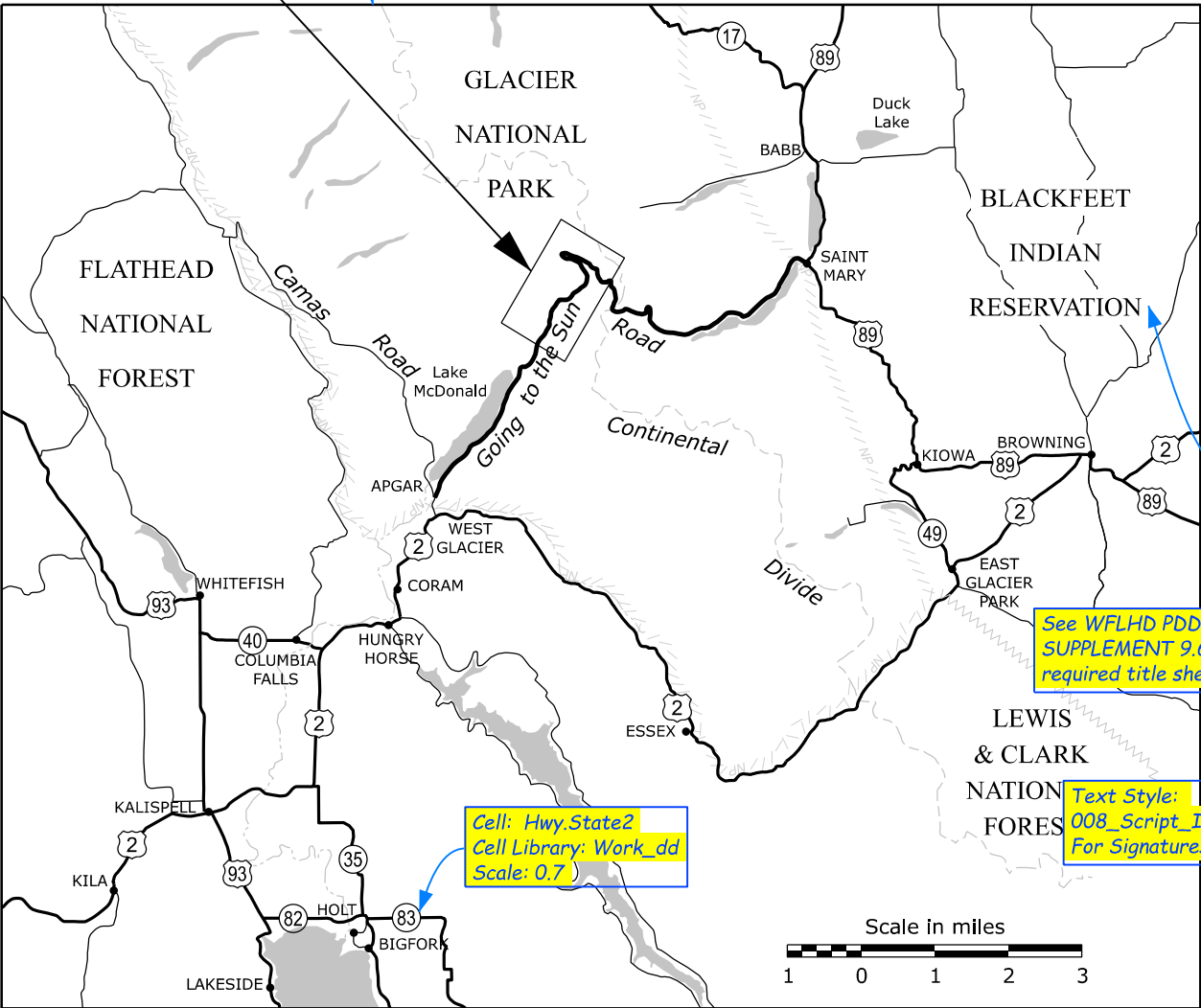
GOING-TO-THE-SUN ROAD REHABILITATION AVALANCHE TO WEST TUNNEL, PHASE VII

FLATHEAD COUNTY
MONTANA

LENGTH 7.26 MILES

PROJECT LOCATION
See Sheet A.4

Map drawn to scale in Design Model



SECTION INDEX

- A. GENERAL INFORMATION
- B. SUMMARY OF QUANTITIES
- C. TYPICAL SECTIONS
- D. PLAN-PROFILE
- E. APPROACH ROADS
- F. SOIL EROSION AND SEDIMENT CONTROL
- G. DRAINAGE
- H. WALLS
- I. TEMPORARY TRAFFIC CONTROL PLAN
- J. PERMANENT TRAFFIC CONTROL PLAN
- K. ELECTRICAL SYSTEM
- L. LANDSCAPING DETAILS
- M. UTILITY DETAILS
- N.-R. [RESERVED]
- S. BRIDGE

This index is a sample.
It does not describe
the sample plan set.

See Sheet A.2 for complete Sheet Index

Text element,
Template: Annotation\General\Agency (Vert)
Override: text size=0.008
Background color background on

See WFLHD PDDM
SUPPLEMENT 9.6.4.4-1 for
required title sheet signatures

Unless otherwise noted
place cells at Scale 1 and
place text at default size.

APPROVED:

/s/ Robert Lale
Chief of Engineering,
Western Federal Lands Highway Division

12/10/2007
DATE

/s/ Jane Doe
Park Superintendent
<National Park Unit>

12/10/2007
DATE



TYPE OF CONSTRUCTION:

Grading, pavement, base,
drainage, retaining walls,
and bridge replacement.

DESIGN DESIGNATION:

SADT (2008) 3500
SADT (2028) 5100
V 45 MPH (844+31 to 1125+00)
25 MPH (1125+00 to 1227+78)
e (max) 8%

SPECIFICATION:

Standard Specifications for
Construction of Roads and Bridges
on Federal Highway Projects, FP-14



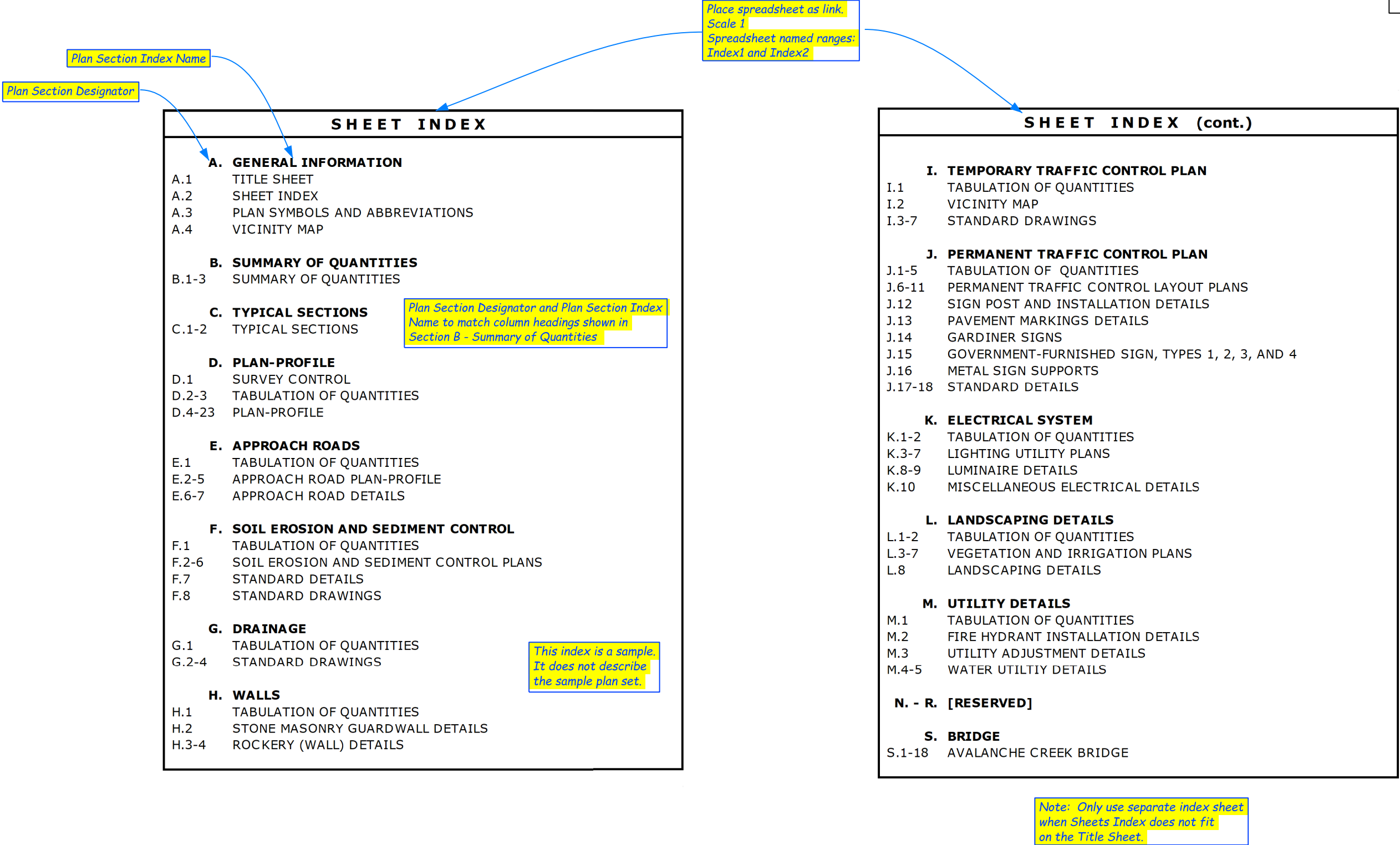
PLANS PREPARED BY

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
WESTERN FEDERAL LANDS HIGHWAY DIVISION
VANCOUVER, WASHINGTON

PROJECT MANAGER
M. TRAFFALIS

Insert PM name

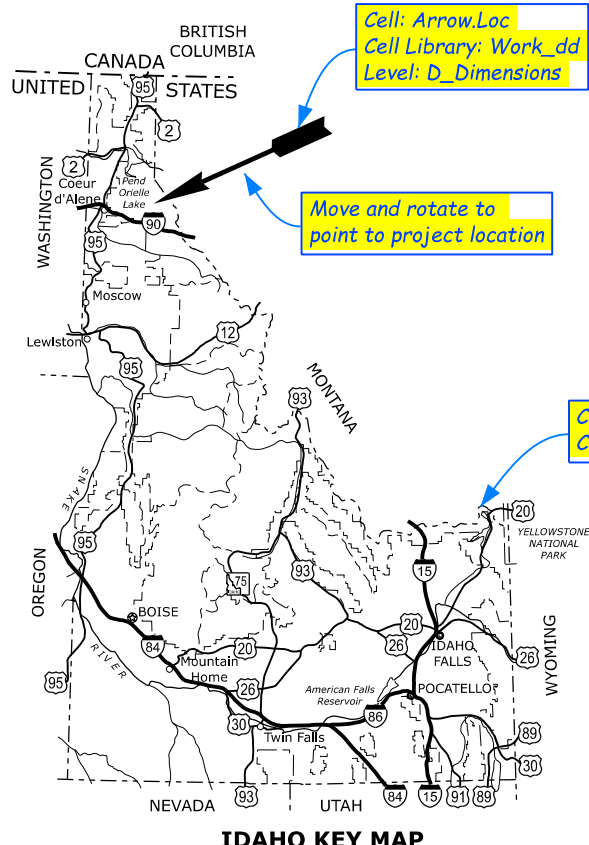
c:\pw-work\0514126\glac01022aa_ORD.dgn [Sheet Index] 11 October 2022 10:53 AM



21 September 2022 3:24 PM



c:\pw-work\0514126\00905ea ORD.dgn [A.1 Title Sheet] 11 October 2022 1:54 PM



IDAHO KEY MAP

U. S. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION



PRELIMINARY
NOT FOR CONSTRUCTION

Inserted from spreadsheet
at Scale: 1

EXAMPLE 2

PLANS FOR PROPOSED PROJECT

ID PFH 9(5)

ENAVILLE-THOMPSON PASS ROAD

IDAHO PANHANDLE NATIONAL FOREST
SHOSHONE COUNTY
IDAHO

LENGTH 12.90 MILES

Element type: Text
Element template: Annotation\General\Small (Vert)

TYPE OF CONSTRUCTION:

Subexcavation, base and paving

DESIGN DESIGNATION:

ADT (2008)	500
ADT (2028)	750
V	50 MPH
e (max)	Match existing
Truck	15%

SPECIFICATION:

Standard Specifications for
Construction of Roads and Bridges
on Federal Highway Projects, FP-14

PLANS PREPARED BY

(A/E Firm Name or Logo)

FOR

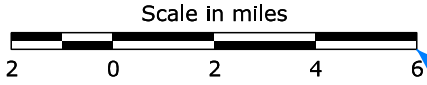
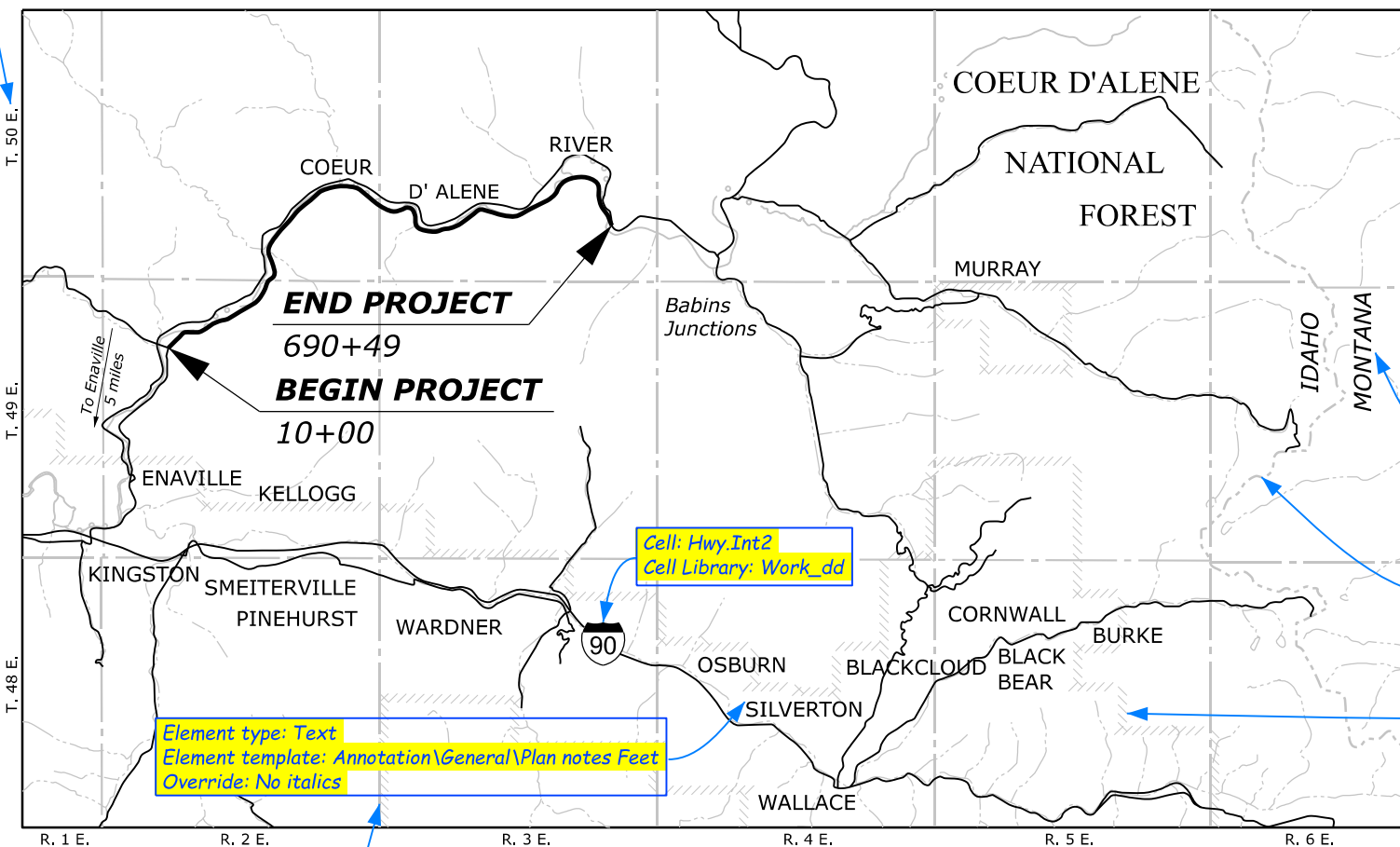
**U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION**
WESTERN FEDERAL LANDS HIGHWAY DIVISION
VANCOUVER, WASHINGTON

PROJECT MANAGER

K. LOFTSGAARDEN

Insert PM name

Township Line
Element type: Line string
Element template: Existing\Right of Way\
Exist Township or Range Line
Override: Color=236



APPROVED:

Chief of Engineering,
Western Federal Lands Highway Division

DATE

PROJECT	SHEET NUMBER
ID PFH 9(5)	A.1

Use OpenRoads Workset
to insert project number

SHEET INDEX

A. GENERAL INFORMATION

- A.1 TITLE SHEET
- A.2 PLAN SYMBOLS AND ABBREVIATIONS
- A.3 VICINITY MAP

B. SUMMARY OF QUANTITIES

- B.1 SUMMARY OF QUANTITIES

C. TYPICAL SECTIONS

- C.1 MAINLINE TYPICAL SECTION
- C.2 TYPICAL SECTION SUBEXCAVATION DETAILS

D. PLAN

- D.1 SURVEY CONTROL
- D.2 TABULATION OF QUANTITIES
- D.3-25 PLAN SHEETS

E. ROAD APPROACHES

- E.1 TABULATION QUANTITIES
- E.2 ROAD APPROACH DETAILS
- E.3 TURNOUT DETAILS

F. TEMPORARY TRAFFIC CONTROL

- F.1 TABULATION QUANTITIES
- F.2-7 TEMPORARY TRAFFIC CONTROL DETAILS

G. PERMANENT TRAFFIC CONTROL

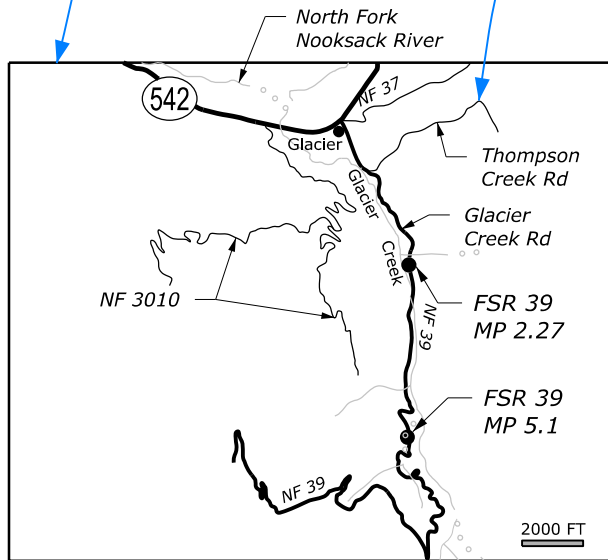
- G.1 PERMANENT SIGN DETAILS
- G.2 PERMANENT PAVEMENT MARKING DETAILS

This Index is a sample.
It does not describe
the sample plan set.

Unless otherwise noted
place cells at Scale 1 and
place text at default size.

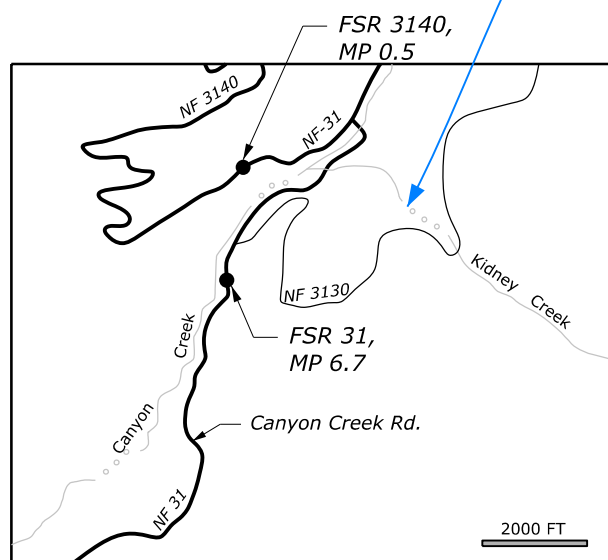
EXAMPLE 3

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FSR 39, MP 5.1
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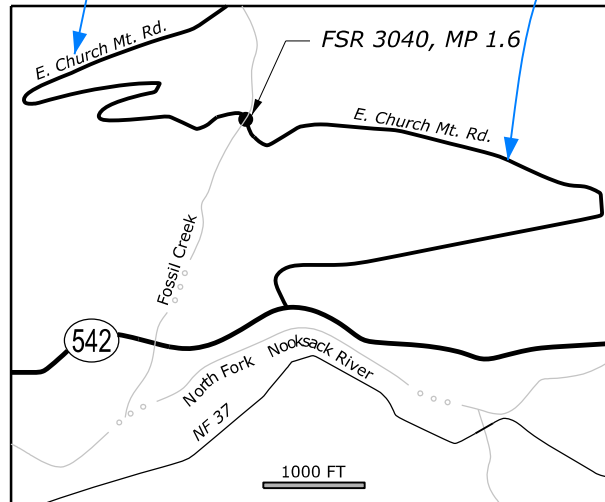
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Template: Annotation\General\Graphics



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(Lat. 48.942635, Long. -121.941596)

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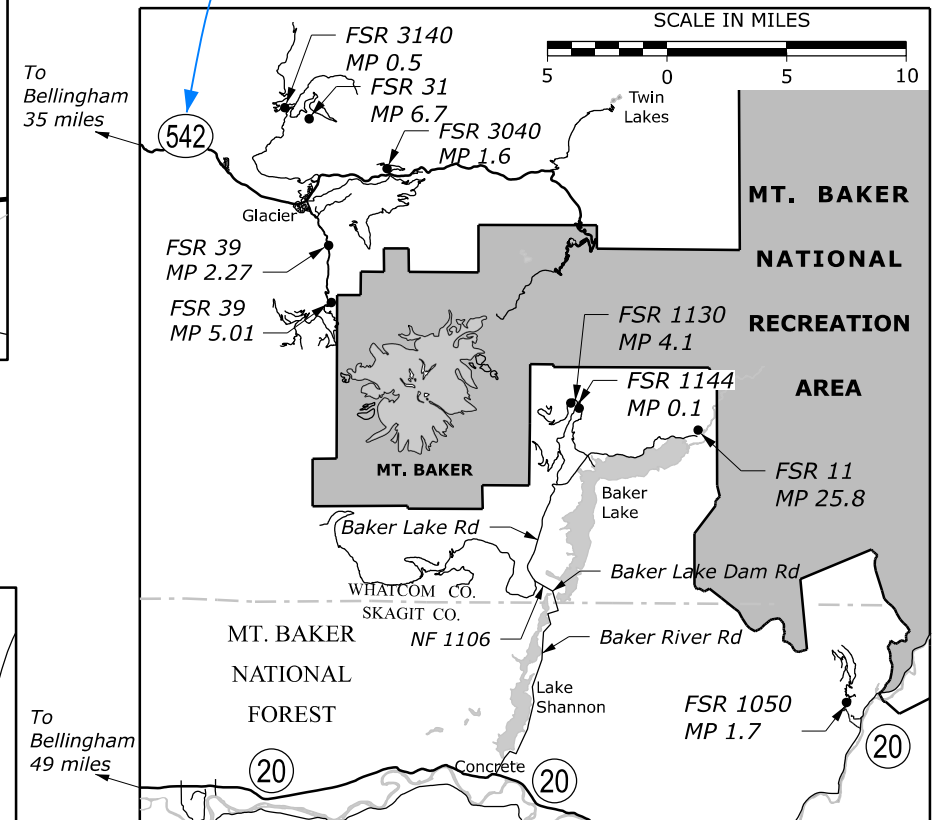
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Template: Annotation\General\Small (Vert)



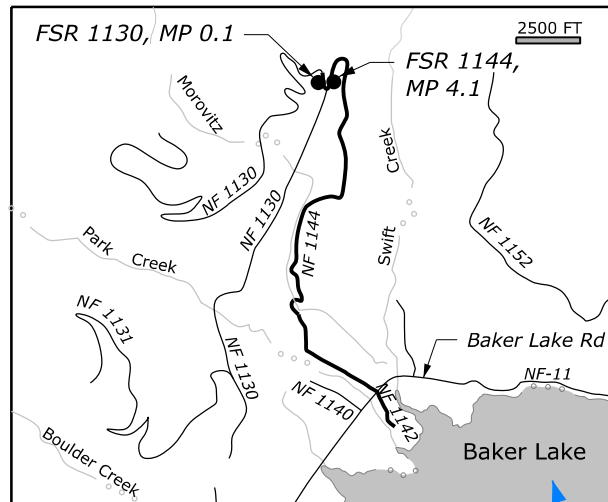
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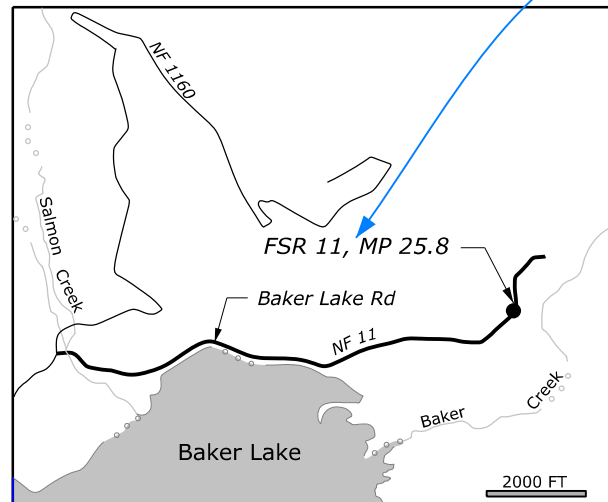
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Cell Library: Work_DD



LOCATION MAP

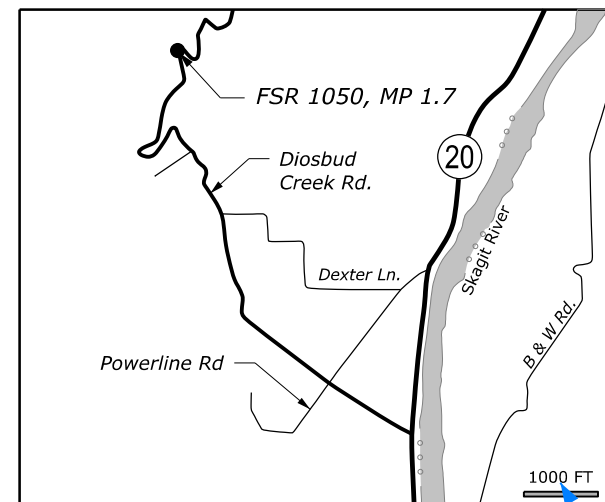


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FSR 1144, MP 4.1
(Lat. 48.765824, Long. -121.669716)



FSR 11, MP 25.8
(Lat. 48.747456, Long. -121.557885)

Type: Note
Template: Annotation\General\Plans note Feet



FSR 1050, MP 1.7
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Type: Text
Template: Annotation\General\Small (Vert)

Type: Text
Template: Annotation\General\Subheading

Type: Shape (opaque)
Template: Linear\Existing\Hydraulics\Existing edge of water
Override: CO=234, Priority=-300

VICINITY MAPS