

Design Variances

- 1

DESIGN ANALYSIS #1: Deceleration Length
I-405 Ramps NB and SB MP 0.95 to 14.6
- 2

DESIGN ANALYSIS #2: Shoulder and Buffer Width, Turning
Lane Width, Horizontal Stopping Sight Distance
I-405 MP 0.95 to 6.06
- 3

DESIGN ANALYSIS #3: Horizontal Stopping Sight Distance
I-405 MP 2.5 to 13.5
- 4

DESIGN DECISION #1: Lateral Distance to Curb
I-405 NB Ramp MP 1.03

Note: Include Design Analysis and Design Decision approval date in Design Data Box.

Pedestrian Crossings

- 1W

SR 202 AND 167TH AVE NE
OPEN BUT NOT ACCESSIBLE
- 1E

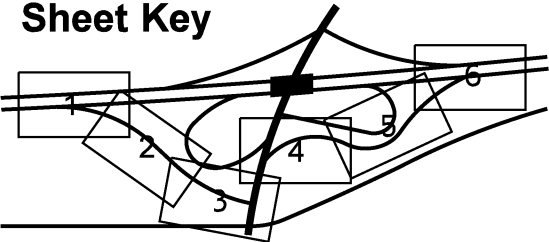
SR 202 AND 167TH AVE NE
OPEN BUT NOT ACCESSIBLE
- 3N

MONTLAKE BLVD E AND E HAMLIN ST
CLOSED
- 5S

I-90 AND 76TH AVE SE
CLOSED

Note: Open but Not Accessible and Closed crossings will require an approved Ped Crossing Memo.

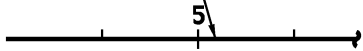
Sheet Key



- Notes on the Sheet Key:
- The Sheet Key should show the arrangement of the sheets with minimal detail.
 - A sheet key is only needed on projects with ten plan sheets or more.

Begin and End Project Callouts

BEGIN PROJECT
I-5 MP 148.81 =
STA L 5+18.23



END PROJECT
I-5 MP 149.87 =
STA L 61+22.93



- Notes on the Begin and End Project Callouts:
- Leader and arrow should point to the center line.
 - Project limits are the location of all permanent work.
 - See Plans Preparation Manual 400.04(2)(m).

Design Data Box

- Notes on the Design Data Box
- Only one design data box is required, preferably on the first sheet
 - If a route changes characteristics within the project limits, each segment should have its own column and each column should clearly identify the limits of segment it covers.
 - Projects with several ramps may tabulate the design vehicles and speeds in a separate table
 - Projects with several intersecting local roads may tabulate the functional class, design vehicles, and posted/design speeds in a separate table

- Current State Highway Log
- WSDOT NHS GIS Map
WSDOT Online Map Center - WSDOT NHS Map
- WSDOT Access Control GIS Map
WSDOT Online Map Center - WSDOT Access Control Map
- Traffic Analysis / DM 1103.03 /
DM 1310.02 / Design Reviewer
- Traffic Analysis / DM 1103.03 /
DM 1310.02 / Design Reviewer
- Current State Highway Log / DM 1103.05
- Current State Highway Log / DM 1103.05
- Current State Highway Log
- WSDOT Traffic Count Data
- WSDOT Traffic Count Data

DESIGN DATA BOX					
Basis of Design or Summary of Design Approval Date:					
Intersection Control Evaluation Approval Date (if applicable):					
Design Analysis or Design Decision Approval Date (if applicable, add one line per variance):					
Roadway	I-LINE / I-5	A-LINE / TUMWATER BLVD	S-LINE / SR 121	C-LINE / CAPITOL BLVD	
Functional Classification	IINTERSTATE	MAJOR COLLECTOR	RURAL MAJOR COLLECTOR	OTHER PRINCIPAL ARTERIAL	
NHS Route (Y/N)	Y	N	N	N	
Access Control Existing/Planned - Limited (Modified, Partial, Full) or Managed Class (1-5)	FULL CONTROL	-	MANAGED ACCESS CLASS 3	-	
Design Vehicle	WB-67	WB-40	WB-40	WB-40	
Accomodated Vehicle	WB-67	WB-40	WB-67	WB-40	
Posted Speed	60	35	35	25	
Design Speed	70	35	35	25	
Terrain (Level, Rolling, or Mountainous)	LEVEL	-	LEVEL	-	
AADT and Year of Data	65,000 (2022)	4,300 (2022)	3,900 (2022)	6,500 (2022)	
Truck % and Year of Data	16.7% (2022)	10.2% (2022)	9.2% (2022)	4.3% (2022)	

Centerline Curve Data Block

CURVE DATA				
P.I. STATION	DELTA	RADIUS	TANGENT	LENGTH

No spiral curves

TOTAL CURVE DATA			CURVE DATA			SPIRAL DATA		
P.I. STATION	DELTA	TANGENT	DELTA	RADIUS	LENGTH	a	DE	Ls

Spiral curves

a - Degrees per station (Ds/Ls)
DE - Spiral deflection angle
Ls - Length of spiral curve

Approval Signature Block

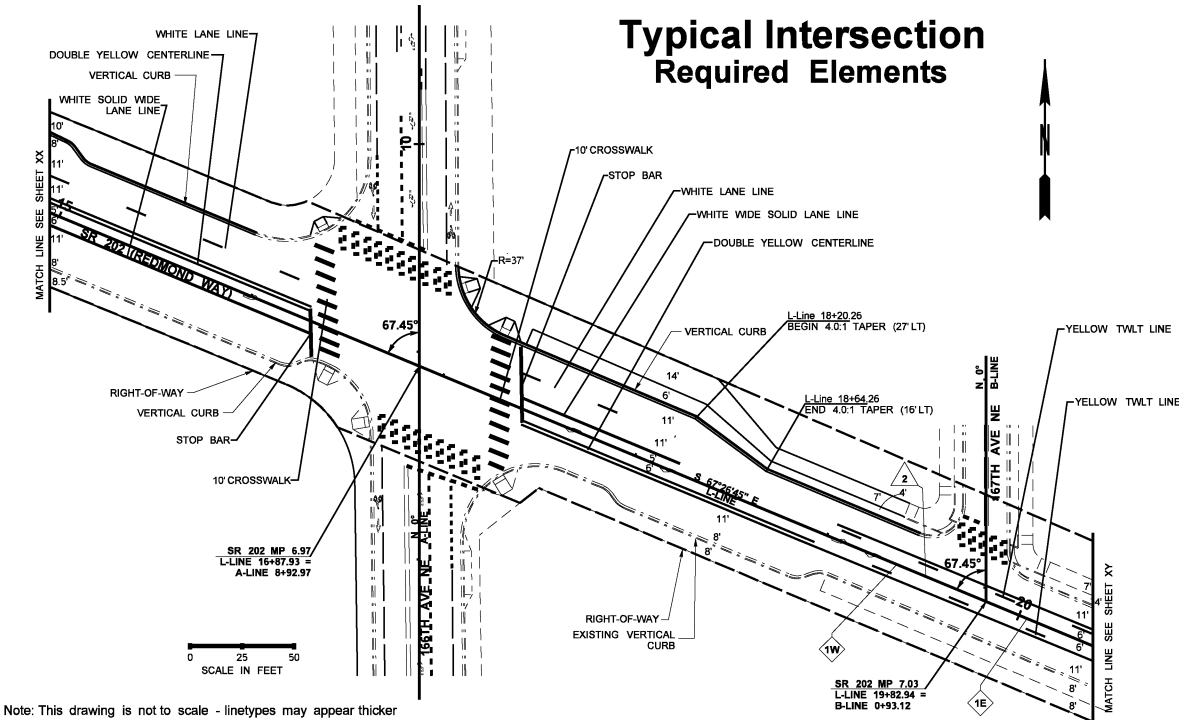
WSDOT NORTHWEST REGION
PLAN FOR APPROVAL

TRAFFIC ENGINEER - AREA OPERATIONS
Signed _____ Date _____
Print _____

ENGINEERING MANAGER
Signed _____ Date _____
Print _____

Approval is limited to the geometric design within WSDOT jurisdiction per RCW 47.24.020.
2.5"±

Note:
What is shown above is an example of a signature block. Check with the Region and replace with their signature block. This signature block should be approximately 2" high by 2.5" wide on an 11" x 17" electronic plot.



Note: This drawing is not to scale - linetypes may appear thicker

Title Block

WSDOT Project

State Route(s) → I-5 SR 516

MP 148.81 TO MP 149.92
I-5 MP 1.80 TO MP 2.05

SR 516 INTERCHANGE
INTERCHANGE IMPROVEMENTS

PLAN FOR APPROVAL

Plot 1
PLAN REF NO
PFA1
SHEET 1 OF 3 SHEETS

Plan reference number
Sheet number
Total number of channelization sheets

Non-WSDOT Project

SR 523

MP 1.05 TO MP 2.49

SR 523
NE 145TH ST BRT
PLAN FOR APPROVAL

SOUND TRANSIT

Plot 1
PLAN REF NO
PFA1
SHEET 1 OF 21 SHEETS

Project Proponent

Layout for non-WSDOT projects does not need to match exactly, but it should contain all relevant information

FILE NAME	J:\UCO Traffic\RESOURCES\z stuff put in channel\Chan Plans\Chan Plan Checklist\Editable files\NWR-ChanPlan-Elements 2025.dgn	REGION NO.	STATE	FED.AID PROJ.NO.	DATE	DATE		PLAN FOR APPROVAL ELEMENTS SHEET	Plot 1
TIME	10:50:46 AM	10	WASH						PLAN REF NO
DATE	7/16/2025								
PLOTTED BY	NyericJ								
DESIGNED BY									
ENTERED BY									
CHECKED BY									
PROJ. ENGR.									
REGIONAL ADM.		REVISION	DATE	BY	P.E. STAMP BOX	P.E. STAMP BOX			SHEET 1 OF 1 SHEETS