

Project Name _____

Mainline Design Parameters – *Route Name Here*

This checklist is to confirm interpretation of standards. Your project may require that additional/different/or fewer Design Elements be addressed.

Design Data				
Design Class				
Design Year				
Design Speed (Posted Speed)				
Number of Lanes	_____General Purpose_____HOV _____Auxiliary			
ADT				
Truck Percentage				
Design Element	Reference/Date	Design Standard	Existing/Proposed	Determination
Access Control				
Vertical Clearance (includes bridges not a part of the project)				
Bicycle/Pedestrian				
Right of Way Width				
Median				
Median Width				
Median Width Transitions				
Median Accident/Barrier Warrant				
Median Width/Barrier Placement				
Median Crossover Design				
Roadway				
Lane Width				
Turning Roadway Width				
Lane Transition				
Max. Superelevation				
Superelevation Transition/Runoff				
Lane Cross Slope				

Meets Guidelines - MG, Does Not Meet Guidelines, DNMG

Project Name _____

Mainline Design Parameters Continued – *Route Name Here*

This checklist is to confirm interpretation of standards. Your project may require that additional/different/or fewer Design Elements be addressed.

Design Element	Reference/Date	Design Standard	Existing/Proposed	Determination
Shoulders				
Shoulder Width - Inside				
Shoulder Width - Outside				
Shoulder Cross Slope				
Grade				
Maximum Grade				
Minimum Grade				
Length of Grade				
Horizontal Alignment				
Stopping Sight Distance				
Horizontal Curve Radii				
Vertical Alignment				
Stopping Sight Distance				
Minimum Length of Vertical Curves				
Passing Sight Distance				
Decision Sight Distance				
Roadside				
Fill/Ditch Slope				
Ditch Depth				
Back Slope & Cut Slope				
Clear Zone				

Meets Guidelines - MG, Does Not Meet Guidelines, DNMG

Project Name _____

Mainline Design Parameters Continued – *Route Name Here*

This checklist is to confirm interpretation of standards. Your project may require that additional/different/or fewer Design Elements be addressed. This page may not be required for freeway type facilities.

Design Element	Reference/Date	Design Standard	Existing/Proposed	Determination
Intersection Design				
Design Vehicle				
Intersection Turning Radii - Right				
Intersection Turning Radii - Left				
Left Turn Clearance				
Intersection Angle				
Intersection Sight Distance				
Channelization Tapers - Right				
Channelization Tapers - Left				
U-Turn Design				
Sidewalk Width				
Sidewalk Cross Slope				
ADA Requirements				
Road Approach Design				
Design Template Type				
Design Vehicle				
Approach Width				
Corner Radii - Entry				
Corner Radii - Exit				
Approach Angle				
Approach Grade				
Sight Distance				

Meets Guidelines - MG, Does Not Meet Guidelines, DNMG

Project Name _____

Ramp Design Parameters - *Ramp Name Here*

This checklist is to confirm interpretation of standards. Your project may require that additional/different/or fewer Design Elements be addressed.

Design Data				
Design Class				
Design Year				
Design Speed (Posted Speed)				
Ramp				
Type: Parallel _____ Taper _____ On _____ Off _____ .				
Number of Lanes _____ General Purpose _____ HOV _____				
ADT				
Truck Percentage				
Design Element	Reference/Date	Design Standard	Existing/Proposed	Determination
Access Control				
Grade				
Maximum Grade				
Length of Grade				
Roadway				
Lane Width				
Turning Roadway Width				
Lane Transition				
Max. Superelevation				
Superelevation Transition/Runoff				
Lane Cross Slope				
Ramp Shoulders				
Shoulder Width - Inside				
Shoulder Width - Outside				
Shoulder Cross Slope				

Meets Guidelines - MG, Does Not Meet Guidelines, DNMG

Project Name _____

Ramp Design Parameters Continued - *Ramp Name Here*

This checklist is to confirm interpretation of standards. Your project may require that additional/different/or fewer Design Elements be addressed.

Design Element	Reference/Date	Design Standard	Existing/Proposed	Determination
Ramp Terminal Design				
Design Vehicle				
Intersection Turning Radii - Right				
Intersection Turning Radii - Left				
Left Turn Clearance				
Intersection Angle				
Intersection Sight Distance				
Channelization Tapers - Right				
Channelization Tapers - Left				
Sidewalk Width				
Sidewalk Cross Slope				
ADA Requirements				
Horizontal Alignment				
Stopping Sight Distance				
Horizontal Curve Radii				
Vertical Alignment				
Stopping Sight Distance				
Minimum Length of Vertical Curves				
Decision Sight Distance				
Roadside				
Fill/Ditch Slope				
Ditch Depth				
Back Slope & Cut Slope				
Clear Zone				

Meets Guidelines - MG, Does Not Meet Guidelines, DNMG

Project Name _____

Ramp Design Parameters Continued - *Ramp Name Here*

This checklist is to confirm interpretation of standards. Your project may require that additional/different/or fewer Design Elements be addressed.

Design Element	Reference/Date	Design Standard	Existing/Proposed	Determination
Also				
Ramp Spacing				
Gore Nose				
Reserve Area Length				
Reserve Area Taper				
Acceleration Length				
Deceleration Length				
Ramp/Mainline Taper				
Weave				
Enforcement Area				
Ramp Meter Storage				

Meets Guidelines - MG, Does Not Meet Guidelines, DNMG

Project Name _____

Cross Street Design Parameters – *Cross Street Name Here*

This checklist is to confirm interpretation of standards. Your project may require that additional/different/or fewer Design Elements be addressed.

Design Data				
Design Class				
Design Year				
Design Speed (Posted Speed)				
Number of Lanes	_____ General Purpose _____		Auxiliary	
ADT				
Truck Percentage				
Design Element	Reference/Date	Design Standard	Existing/Proposed	Determination
Access Control				
Bicycle/Pedestrian				
Right of Way Width				
Roadway				
Lane Width				
Shoulder Width - Outside				
Sidewalk Width				
Intersection Design				
Design Vehicle				
Intersection Angle				
Intersection Turning Radii - Right				
Intersection Turning Radii - Left				
Left Turn Clearance				
Channelization Tapers - Right				
Channelization Tapers - Left				
U-Turn Design				
Sidewalk Width				
Sidewalk Cross Slope				
ADA Requirements				

Meets Guidelines - MG, Does Not Meet Guidelines, DNMG

Project Name _____

Cross Street Design Parameters Continued – *Cross Street Name Here*

This checklist is to confirm interpretation of standards. Your project may require that additional/different/or fewer Design Elements be addressed.

Design Element	Reference/Date	Design Standard	Existing/Proposed	Determination
Vertical Clearance				
Sight Distance				
Intersection Sight Distance				
Horizontal Stopping Sight Distance				
Vertical Stopping Sight Distance				
Roadside				
Fill/Ditch Slope				
Ditch Depth				
Back Slope & Cut Slope				
Clear Zone				

Meets Guidelines - MG, Does Not Meet Guidelines, DNMG

Project Name _____

Bridge and Barrier Design Parameters – *Bridge Name Here*

This checklist is to confirm interpretation of standards. Your project may require that additional/different/or fewer Design Elements be addressed.

Design Data				
Design Class				
Design Year				
Design Speed (Posted Speed)				
Number of Lanes General Purpose _____ HOV _____ Auxiliary				
ADT				
Truck Percentage				
Design Element	Reference/Date	Design Standard	Existing/Proposed	Determination
Bridge Width				
Lane Width				
Turning Roadway Width				
Shoulder Width - Inside				
Shoulder Width - Outside				
Sidewalk Width				
ADA Requirements				
Bridge Operational Capacity				
Horizontal Clearance				
Vertical Clearance				
Structural Capacity				
Bridge Approach Slab				
Bridge Rail (Geometrics & Strength)				
Barrier to Bridge Rail Transition				
Protective Screening				

Meets Guidelines - MG, Does Not Meet Guidelines, DNMG

Project Name _____

Bridge and Barrier Design Parameters Continued

This checklist is to confirm interpretation of standards. Your project may require that additional/different/or fewer Design Elements be addressed.

Design Element	Reference/Date	Design Standard	Existing/Proposed	Determination
Barrier Standard Run				
Barrier Type/System Type				
Standard Height				
Shy Distance				
Barrier Transition Section				
Barrier End Treatment				
Impact Attenuator				

Meets Guidelines - MG, Does Not Meet Guidelines, DNMG

Project Name _____

Roadside Safety Restoration Design Parameters

This checklist is to confirm interpretation of standards. Your project may require that additional/different/ or fewer Design Elements be addressed.

Design Element	Reference/Date	Design Standard	Existing/Proposed	Determination
Delineation				
Rumble strips (Rural Interstate)				
Adjust features				
Barrier height/need				
Signing				
Relocate, protect or provide breakaway features				
Restore sight distance				
Bridge rails/Thrie beam				
Barrier End Treatment				
Bridge to Barrier Transition				
Restore Cross Slope				

Meets Guidelines - MG, Does Not Meet Guidelines, DNMG

Project Name _____

Roadside Safety Restoration Design Parameters Continued

This checklist is to confirm interpretation of standards. Your project may require that additional/different/ or fewer Design Elements be addressed.

Design Element	Reference/Date	Design Standard	Existing/Proposed	Determination
Also				
Spot safety				
Striping Changes				
Roadside Safety Hardware				
Location I Utility Objects				
Right of Way Fencing				
Drainage				
Pedestrian and Bicycle Use				
ADA Requirements				
Illumination				
Electrical				
Signal				
ITS				
Hydraulic Evaluation for Culvert Bars				
Evaluation of Water Depth				
Glare Screen				

Meets Guidelines - MG, Does Not Meet Guidelines, DNMG

Project Name _____

Bike Path Design Parameters

This checklist is to confirm interpretation of standards. Your project may require that additional/different/or fewer Design Elements be addressed.

Design Data	List Data Reference (include reference date)			
Path Type				
Bicycle per day (bpd)				
Access Control				
Design Element	Reference/Date	Design Standard	Existing/Proposed	Determination
Width				
Path				
Separation to Obstructions				
Graded Area				
Clearance to Obstructions				
Horizontal Clearance				
Vertical Clearance				
Intersections with Highways				
Intersection Crossing Angle				
Approach Treatment				
Ramp Widths				
Refuge Islands				
ADA Requirements				
At-Grade Railroad Crossings				
Separation, Barrier, Fencing				
Design Speed				
Horizontal Alignment and Superelevation				
Stopping Sight Distance				
Sight Distance - Crest Vertical Curves				
Lateral Clearance - Horizontal Curves				
Grades				

Meets Guidelines - MG, Does Not Meet Guidelines, DNMG

Project Name _____

Roundabout Design Parameters – *Roundabout Name Here*

This checklist is to confirm interpretation of standards. Your project may require that additional/different/or fewer Design Elements be addressed.

Design Data			
Design Class			
Design Year			
Mainline Design Speed (Posted Speed)			
Cross Road Design Speed (Posted Speed)			
ADT			
Truck Percentage			
	Reference/Date	Design Performance Objective	Determination
Design Vehicle Turning Path			
Fastest Vehicle Paths			
Natural Vehicle Paths			
Design Components			
Inscribed Circle Diameter (ICD)			
Approach Alignment			
Entry			
Exit			
Central Island Diameter			
Truck Apron			
Superelevation and Grades			
Clear Zone			

Meets Guidelines - MG, Does Not Meet Guidelines, DNMG

Project Name _____

Roundabout Design Parameters Continued – *Roundabout Name Here*

This checklist is to confirm interpretation of standards. Your project may require that additional/different/or fewer Design Elements be addressed.

Design Element	Reference/ Date	Design Performance Objective				Determination
Approach From... [Designer must include a section for each approach]						
Design Vehicle						
R1 - Entry Path Radius						
Superelevation						
Speed (mph)						
R2 - Circulating Path Radius						
Cross Slope						
Speed (mph)						
R3 - Exit Path Radius						
Cross Slope						
Speed (mph)						
R4 - Left Turn Path Radius						
Cross Slope						
Speed (mph)						
R5 - Right Turn Path Radius						
Cross Slope						
Speed (mph)						
Approach Stopping Sight Distance						
Circulating Stopping Sight Distance						
Exit Stopping Sight Distance						
S1 - Entering Stream Sight Distance						
S2 - Circulating Stream Sight Distance						

Meets Guidelines - MG, Does Not Meet Guidelines, DNMG

Project Name _____

Roundabout Design Parameters Continued - *Roundabout Name Here*

This checklist is to confirm interpretation of standards. Your project may require that additional/different/or fewer Design Elements be addressed.

Design Element	Reference/Date	Design Performance Objective	Determination
Right-Turn Slip Lane			
Add and Drop or Bypass Lane			
Railroad Crossing			
Pedestrians			
Bicycles			
Signing and Pavement Marking			
Illumination			
Access, Parking, and Transit Facilities			

Meets Guidelines - MG, Does Not Meet Guidelines, DNMG