

# Instructions for Completion of Existing ADA Feature Measurement Records Scoping Phase

## A. Basic Information

The instructions below are to be used when Scoping an ADA project.

- **Scoping ADA Features**

The [Project Delivery Memo dated December 5, 2016](#), provides direction on timing, type of projects, and when ADA Features need to be addressed while scoping a project.

- **Types of ADA Features to be Collected at Scoping**

The following ADA Features may be included in a project and measurements are to be recorded and transmitted to WSDOT:

- Curb Ramps
  - Perpendicular
  - Parallel
  - Combination
  - Parallel One-Direction
- Sidewalk
- Driveway
- End Ramps for a Sidewalk or Bridge End
- APS Button and Signal
- Independent Shared Use Path (Added July 2018)
- Median and Traffic Island Cut-Through (Added July 2018)

## Equipment Needed for Measurements

The Scoper can use any method to collect the measurements. Past practice has been to use the tools below to complete the required measurements:

### Smart Level – Slope Measurement

- Minimum of 2.0 feet in length
- Inclinator capable of slope accuracy measurements of maximum of 1/16" per foot
- Display slope measurements up to two-significant figures
- Display slope in percent
- Calibrate the level per the manufacturers' recommendations, not less than once per day.

### Steel Tape Measure – Dimension Measurements

- Capable of measuring to 0.01 foot

## Forms

Record the measurements for the ADA Features identified above using the Excel spreadsheet, **ADA\_Measurements.xlsm**, which can be downloaded from the ADA Guidance website located at:

<https://wsdot.wa.gov/engineering-standards/design-topics/design-ada>

When you follow the above link and open the 'ADA Measurement Forms' link, a dialog box will open asking you "What do you want to do with ADA Measurements.xlsm?" You will want to 'Save As' in your own folder. You can then make as many copies as needed for your project.

**HINT:** Check the web-page often for the most current form. For your convenience, the form is being updated to help you in the completion of measurements and transmitting data more intuitive.

## Form Design

Each form is a separate tab (worksheet) in the spreadsheet. When opening up the spreadsheet, the READ-ME tab is the default tab that it opens up to, to inform the user that there are a number of forms contained in the Excel spreadsheet that are to be used to record measurements.

The forms are designed to only include those measurement fields or information that are identified with the specific project phase. Select the Phase from the drop-down list that the data is being collected for:

- Scoping
- Design/Build
- Contractor As-Builts

Phase	
SR	
MP	
Station	

Project Phase  
Select project phases:

1. Scoping
2. Design / Build
3. Contractor As-Builts

The forms are designed to record the basic project information in the upper portion of the worksheet.

Contract / Work Order _____	Date Measured _____	SR	Survey/Fea
Measured By _____		Milepost	A/B ?
Cross Street Name _____	Site	Station	Lt or Rt? MEI
Plan Sheet Reference _____	Location	Geoportal	
Feature Location Code _____	Jurisdiction	Instructions	Latitude Longitude Accuracy
Site History _____	Constructed By _____	Enter numbers only 1 = 1.00%, 2.25 = 2.25 ft, etc. Measurement	

Each form has "Required Field" (Fuchsia color shaded cells) that need to be completed in order for the form to be submitted

**ADA Feature - Perpendicular Curb Ramp Measurements** = Required Field

Contract / Work Order _____	Date Measured _____	Phase	Scoping Database :
Measured By _____		SR	Survey/Featu
Cross Street Name _____	Site	Milepost	A/B ? ME
Plan Sheet Reference _____	Location	Station	Lt or Rt? MEF R
Feature Location Code _____	Jurisdiction	Geoportal	
Site History _____	Constructed By _____	Instructions	Latitude Longitude Accuracy
Diagonally Oriented? _____	Clear Space Achieved? _____	Enter numbers only 1 = 1.00%, 2.25 = 2.25 ft, etc. Measurement C	
		Landing	

As the form is filled-in, the shading disappears

**ADA Feature - Perpendicular Curb Ramp Measurements** = Required Field

Contract / Work Order <u>XL1234</u>	Date Measured <u>6/7/2018</u>	Phase	Scoping Database
Measured By <u>ADA Team #1</u>		SR	5 Survey/Featu
Cross Street Name <u>Elm Street</u>	Site	Milepost	A/B ? M
Plan Sheet Reference _____	Location	Station	Lt or Rt? MEF F
Feature Location Code _____	Jurisdiction	Geoportal	
Site History _____	Constructed By _____	Instructions	Latitude Longitude Accuracy
Diagonally Oriented? _____	Clear Space Achieved? _____	Enter numbers only 1 = 1.00%, 2.25 = 2.25 ft, etc. Measurement Cc	
		Landing	

Until there is no shading shown on the form

ADA Feature - Perpendicular Curb Ramp Measurements				Phase		Scoping		Database	
Contract / Work Order		XL1234		Date Measured		6/7/2018		Survey/Feat	
Measured By				ADA Team #1		SR		5	
Cross Street Name		Elm Street		Milepost		2.3		A ?	
Plan Sheet Reference		[Redacted]		Station		[Redacted]		MEF	
Feature Location Code		[Redacted]		Jurisdiction		WSDOT		Geoportals	
Site History		[Redacted]		Constructed By		[Redacted]		Geoportals	
Diagonally Oriented?		No		Clear Space Achieved?		n/a		pass	
Geoportals		47.034085		Latitude		-122.897		Longitude	
Instructions		Latitude		Longitude		Accuracy		Measurement	
Enter numbers only		1 = 1.00%		2,25 = 2.25 ft. etc.		Landing		[Redacted]	

The forms have been designed for the recorder to select information found in a drop-down menu.

Phase	
SR	Scoping Design / Build Contractor As-Builts
MP	1. Scoping 2. Design / Build 3. Contractor As-Builts
Station	

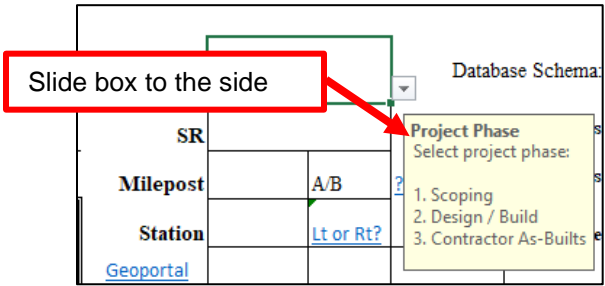
OR:

Feature Location Code	
Site History	
Diagonally Oriented?	Yes No

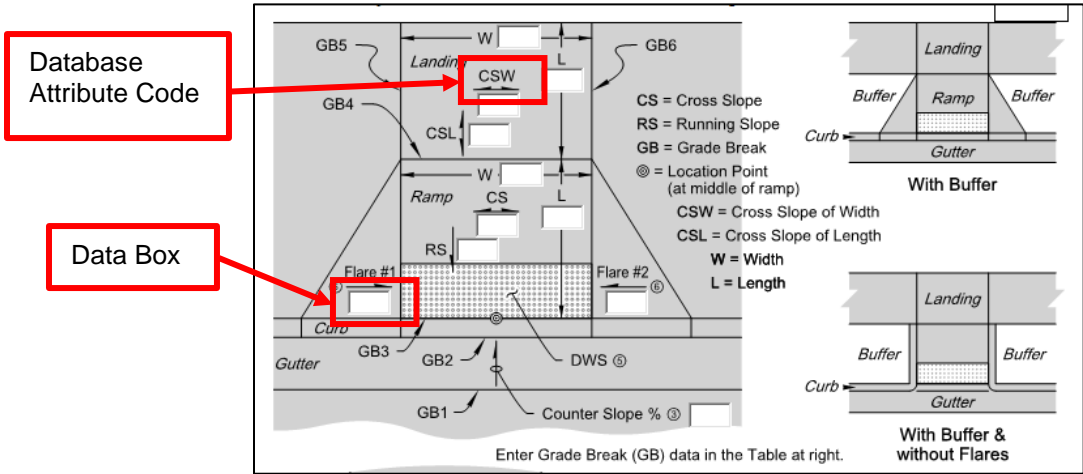
Information boxes are included in many of the drop-down lists to help the recorder input the correct information.

Phase	
SR	Project Phase Select project phase: 1. Scoping 2. Design / Build 3. Contractor As-Builts
Milepost	
Station	

**HINT:** Sometimes the Information box may cover a portion of the drop-down cell. To move the Information box, just click on it, and using the mouse, drag the Information box to a new location.



Diagram(s) are provided to identify what and where the different measurements are found. The diagrams have a data box beside the database attribute code to help in completing the form correctly.



A measurement may be entered into the data box on the diagram and the information will be automatically populated onto the right side of the form.

Feature Location Code	Jurisdiction	<a href="#">Instructions</a>	Latitude	Longitude	<a href="#">Accuracy</a>
Site History	Constructed By	Enter numbers only 1 = 1.00%, 2.25 = 2.25 ft, etc.			
Diagonally Oriented?	Clear Space Achieved?	Measurement			

<b>Landing</b>	
pass	SW 1.80
	CSL
	W
	L
<b>Ramp Left #2</b>	
	RS#2
	CS#2
	W#2
	L#2

OR

The measurement may be entered into the right side of the form

Feature Location Code \_\_\_\_\_ Jurisdiction \_\_\_\_\_  
 Site History \_\_\_\_\_ Constructed By \_\_\_\_\_  
 Diagonally Oriented?  Clear Space Achieved?

Instructions Latitude Longitude Accuracy  
 Enter numbers only  
 1 = 1.00%, 2.25 = 2.25 ft, etc. Measurement

<b>Landing</b>			
pass	CSW	1.80	2.0
	CSL	1.5	2.0
	W		4.0
	L		4.0
<b>Ramp Left #2</b>			
	RS#2		8.0

And, after hitting the Enter button the measurement will automatically populate into the data box on the diagram.

Feature Location Code \_\_\_\_\_ Jurisdiction \_\_\_\_\_  
 Site History \_\_\_\_\_ Constructed By \_\_\_\_\_  
 Diagonally Oriented?  Clear Space Achieved?

Instructions Latitude Longitude Accuracy  
 Enter numbers only  
 1 = 1.00%, 2.25 = 2.25 ft, etc. Measurement

<b>Landing</b>			
pass	CSW	1.80	2.0
pass	CSL	1.50	2.0
	W		4.0
	L		4.0
<b>Ramp Left #2</b>			
	RS#2		8.0
	CS#2		4.0

The forms have been designed to provide sufficient information to the recorder so the correct format of information is placed onto the form.

<b>Landing</b>			
pass	CSW	1.75	2.00% Max
pass	CSL	1.	<b>Cross-Slope of Landing Width</b> Enter number only, please: 1 = 1.00% 1.85 = 1.85% etc.
pass	W	6.	
pass	L	4.	

As the measurements are performed and recorded into the form, the form will automatically identify if the measurement "Passes" or "Fails" the ADA Compliance Criteria.

**ADA Feature - Perpendicular Curb Ramp Measurements**

Contract XL5432 Date Measured 5/14/2018

Measured By Tester

Cross Street Name 176th St Corner/Side W

Plan Sheet Reference 14

Feature Location Code 4

Site History Replaces an Existing Feature

Diagonally Oriented?  No Clear Space Achieved?  n/a  pass

Phase Contractor As-Built Database Schema: CR-PERP

SR 7 Survey/Feature Status **FAIL**

MP 17.54 A MEF Status Standard ADA

Station 17+25 Lt or Rt?  MEF Reference

Latitude 47.0338767 Longitude -122.89606

Enter numbers only 1 = 1.00%, 2.25 = 2.25 ft, etc.

Measurement	ADA Compliance Criteria	MEF Criteria
pass CSW 1.90	2.00% Max	% Max
<b>FAIL</b> CSL 2.10	2.00% Max	% Max

The Survey/Feature Status of the feature will be identified as either “Pass”, “Fail”, or “Incomplete Form”.

**ADA Feature - Perpendicular Curb Ramp Measurements**

Contract XL5432 Date Measured 5/14/2018

Measured By Tester

Cross Street Name 176th St Corner/Side W

Plan Sheet Reference 14

Feature Location Code 4

Site History Replaces an Existing Feature

Diagonally Oriented?  No Clear Space Achieved?  n/a  pass

Phase Contractor As-Built Database Schema: CR-PERP

SR 7 Survey/Feature Status **pass**

MP 17.54 A MEF Status Standard ADA

Station 17+25 Lt or Rt?  MEF Reference

Latitude 47.0338767 Longitude -122.89606

Enter numbers only 1 = 1.00%, 2.25 = 2.25 ft, etc.

Measurement	ADA Compliance Criteria	MEF Criteria
pass CSW 1.90	2.00% Max	% Max
CSL 2.10	2.00% Max	% Max

The “Incomplete Form” message is displayed when required data is missing.

**ADA Feature - Perpendicular Curb Ramp Measurements**

Contract XL5432 Date Measured 5/14/2018

Measured By Tester

Cross Street Name 176th St Corner/Side W

Plan Sheet Reference 14

Feature Location Code 4

Site History Replaces an Existing Feature

Diagonally Oriented?  No Clear Space Achieved?  n/a  pass

Phase Contractor As-Built Database Schema: CR-PERP

SR 7 Survey/Feature Status **incomplete form**

MP 17.54 A MEF Status Standard ADA

Station 17+25 Lt or Rt?  MEF Reference

Latitude 47.0338767 Longitude -122.89606

Enter numbers only 1 = 1.00%, 2.25 = 2.25 ft, etc.

Measurement	ADA Compliance Criteria	MEF Criteria
pass CSW 1.90	2.00% Max	% Max
CSL 2.10	2.00% Max	% Max

Each form has the ability to document a measurement(s) that does not meet ADA compliance criteria but has been processed and received approval allowing the use of that dimension.

 **Special Note:**

NOTE – this next section generally will not apply to a project in the Scoping phase

**Maximum Extent Feasible (MEF)** - The forms have been designed to include the tracking of a MEF dimension, slope, or other ADA compliance criteria that has been approved by the region's Assistant State Design Engineer and ADA Compliance Manager.

It is intended that during the (Scoping) Design Phase, designers are to identify on the form where a value does not meet ADA compliance. At the time of Scoping it may not be required to obtain MEF approval, and provide the completed forms to the WSDOT Design Project Engineer.

An approved MEF document needs to be referenced on the form. Provide the "L #" (Design Work Order Number) in the MEF Reference box.

If there is an approved MEF, the form tests the recorded measurement against the MEF dimension or slope to determine "Pass" or "Fail".

**Field**

Contractor As-Built

Database Schema: CR-PERP

Survey/Feature Status: incomplete form

MEF Status: Has MEF

MEF Reference: [Red Box]

MEF Documentation: If this survey allows MEF, enter "L#" (Design Work Order Number)

ADA Compliance Criteria

Measurement

MEF C

**Landing**

pass CSW 2.30 2.00% Max 2.4 % Max

Identify the MEF value

Note: The MEF criteria can be set to be evaluated to the following parameters:

- Min
- Equal to
- Max

**Slope**

ADA Compliance Criteria

MEF Criteria

2.00% Max

% Max

% Min

%

% Max

**Length**

.00% Max

% Max

.00 ft Min

ft Min

.00 ft Min

ft Min

ft

ft Max



## II. General Information for Completing a Form

### A. First, identify the Phase – “Scoping”

**= Required Field**

<b>Phase</b>	Scoping	Database
SR		
Milepost		
Station		

Project Phase  
Select project phase:

1. Scoping
2. Design / Build
3. Contractor As-Builts

### B. Basic information required for each Feature measured includes:

1. Some of the forms are site specific, and will need to be completed separately for each ADA Feature constructed (the various Curb Ramps, Sidewalk End Ramps, Cut Thru, Driveway, and APS Button/Signal), while other forms provide the capability to record more than one ADA Feature location on the same form (Sidewalk and Independent Shared Use Path).

READ-ME	Perpendicular	Parallel	Combination	Parallel-One_Direction	Sidewalk	Driveway	End Ramp	APS Button_Signal
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2. All the forms require basic information to be filled-out:
  - As noted above, each form has “Required Field” (Fuchsia color shaded cells) that need to be completed in order for the form to be submitted.

**ADA Feature - Parallel Curb Ramp**

**Measurements**

**Phase** Scoping

**Contract / Work Order** 1 **Date Measured** 2

**Measured By** 3

**Cross Street Name** 4

**Plan Sheet Reference**

**Feature Location Code**

**Site History**

**Diagonally Oriented?** 5 **Clear Space Achieved?**

**Visually Identified the Feature is ADA non-Compliant, no measurements taken**

**SR** 10

**Milepost** 11 **A/B** 12

**Station** Lt or Rt? 13

**Geoportal** 14 15 16

**Location** 6 7 8

**Jurisdiction** 9

**Constructed By**

**Instructions** Latitude Longitude Accuracy

Enter numbers only  
1 = 1.00%, 2.25 = 2.25 ft, etc.

**Measurement**

**Landing**

**CSW**

**NOTES**

17

Measurement Instrument  
Serial Number: 18

Calibrated by:

Date:

3. Field Descriptions:

1. **Work Order** – Enter the Scoping Work Order number; six digits (“XL1234”).
2. **Date Measured** – Enter the date measured.
3. **Measured By** – Enter the name/title of person completing the measurements.
4. **Cross Street Name** – Enter the name of the cross street, if available.
5. **Diagonally Orientated** – Identify whether or not the curb ramp points into the center of the intersection (diagonal).

Diagonally Oriented?

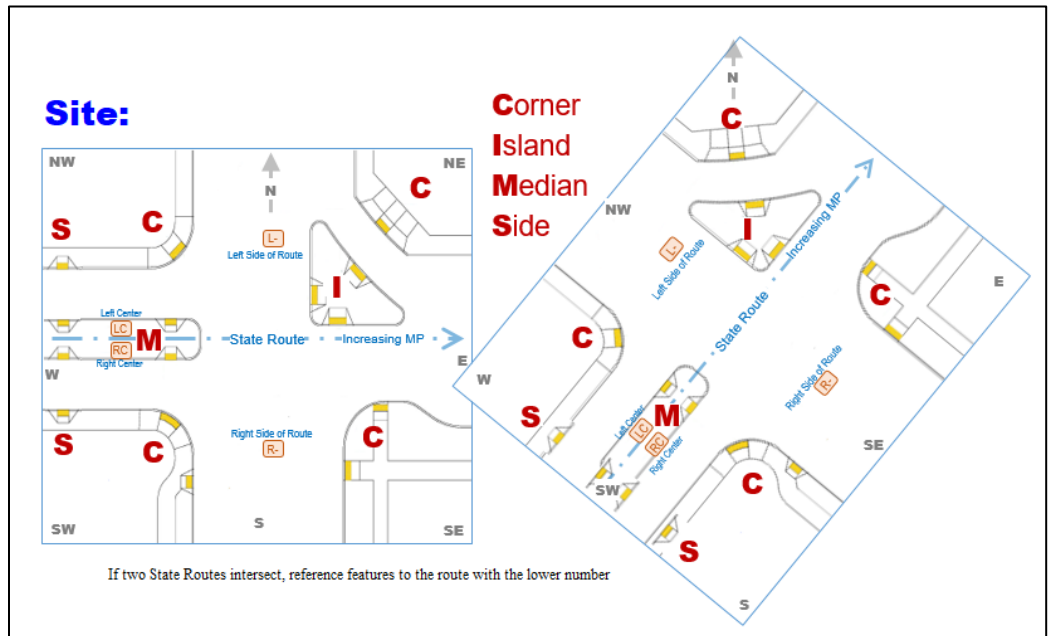
Yes

No

6. **Site** – Identify where the feature is located. Click on the hyperlink and the diagram (shown below) will provide more information about the Site.

Hyperlink

Site



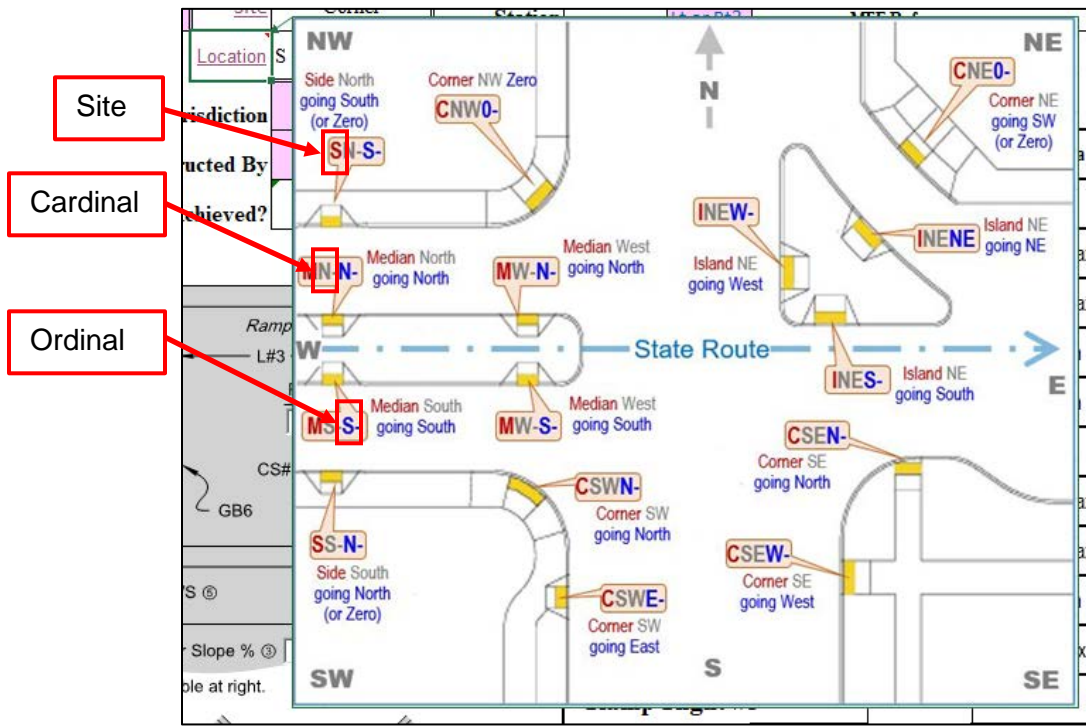
Select from the dropdown list the general location where the feature is located.

Site

Corner  
Island  
Median  
Side  
Other - NOTES

Which area of the roadway?  
Select which part of the roadway the feature is located:  
Is it on a corner, an island, a median, or on the side of the road?  
If it is not on any of those, pick "Other" and describe in NOTES.

7. **Location** – This is used provide more specific location detail to distinguish the feature’s location (especially when there are other similar features on the same corner). Move the mouse button over the “Location” cell and a schematic drawing (below) will pop up showing the naming convention used to identify the location of the feature.



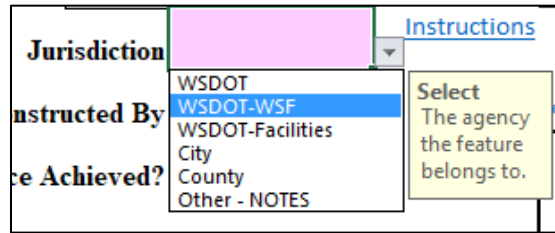
7 – **Corner Compass Location:** From the dropdown list identify the “Cardinal” Corner Compass Location for where the feature is located.

	Location
<p><b>Corner Compass Location</b>          As standing in the center of the intersection or roadway, which corner, side, island, or median is the feature located by compass point:          Cardinal: N, S, E, W          Ordinal: NE, SE, SW, NW          Not Applicable: 0 - explain in NOTES</p>	N S E W NW NE SW SE

8 – **Compass Location:** From the dropdown list identify the “Ordinal” Corner Compass Location where the feature is located.

	<p><b>Multiple Like Features?</b>          If there is more than one of the same feature (curb ramp), indicate which is which (pick the direction on the corner or island that the ramp slopes to the roadway):          Cardinal: N, S, E, W          Ordinal: NE, SE, SW, NW          Not Applicable, or only one feature (ramp): 0</p>
N/A	N S E W NW NE SW SE

9. **Jurisdiction** – Identify who has jurisdiction of the feature from the dropdown list



**Jurisdiction** [dropdown menu]

Instructions: Select The agency the feature belongs to.

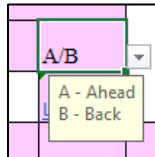
10. **SR** – Enter the State Route identification (number only).

11. **Mile Post** (MP) - Provide the State Route mile post for the feature.

The MP can be calculated possibly using the contract plan information found on the vicinity map.

12. **Ahead/Back** Indicators (A/B) – Identify if the feature’s MP is ahead or back. For most State Routes this will typically be identified as “Ahead”.

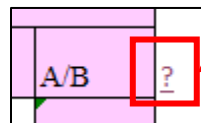
The State Route Milepost Back (B) indicator designates whether the milepost value is the ‘back’ duplicate of a milepost value ‘ahead’ on the route.



A/B [dropdown menu]

A - Ahead  
B - Back

Click on the hyperlink to see further documentation pertaining to Milepost Back Indicator



A/B [question mark icon]

Hyperlink

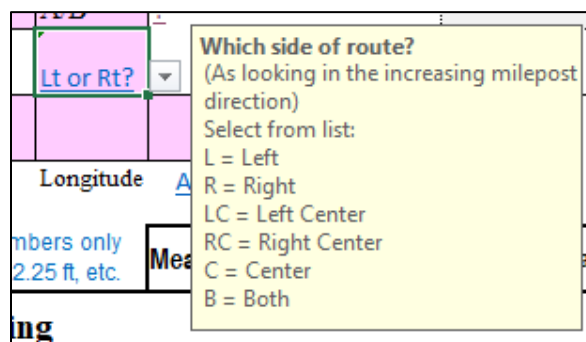
**STATE ROUTE MILEPOST BACK (B) INDICATOR**

The State Route Milepost Back (B) indicator designates whether the milepost value is the ‘back’ duplicate of a milepost value ‘ahead’ on the route. Ahead values have an implied ‘A’ (blank).

A back SRMP occurs as a result of:

- A realignment that lengthens a section of an SR other than at the end of the route.
- Adding mileage to the beginning of an SR.

13. **Lt or Rt** - Identify where the feature is located in relationship to the State Route centerline (while being oriented and facing in the Increasing MP direction) from the drop-down list.



Lt or Rt? [dropdown menu]

Instructions: Which side of route? (As looking in the increasing milepost direction) Select from list: L = Left, R = Right, LC = Left Center, RC = Right Center, C = Center, B = Both

For more information click on the hyperlink

<b>Which side of route?</b> (As looking in the increasing milepost direction) Select from list: 1. Left 2. Right	<input type="text" value="Lt or Rt?"/>	<input type="text" value="Longitu"/>
	<input type="text" value="Enter numbers only"/>	

**LEFT/RIGHT INDICATOR**

Features that get tagged with this code occur **ALONG SIDE** the main traveled way. All Left Right Indicators are assigned based on the **INCREASING** direction of travel, starting from the left and working to the right.

**L = LEFT** Represents features located along side the decreasing traveled way.

**LC = LEFT CENTER** Represents features located along side the median side of the decreasing traveled way.

**C = CENTER** Represents a feature that occurs between the increasing and decreasing traveled way.

**RC = RIGHT CENTER** Represents features located along side the median side of the increasing traveled way.

**R = RIGHT** Represents features located along side the increasing traveled way.

**B = BOTH** The feature occurs along side both the increasing and decreasing traveled way.

**14. Latitude**– Provide the latitude coordinate for the feature.

If the coordinate is not obtainable from a collection device, use the WSDOT Geoportal application to identify the coordinate. Instructions for using the Geoportal application can be found by click on the Instructions hyperlink.

<a href="#">Geoportal Application hyperlink</a>	<input type="text" value="Geoportal"/>	<input type="text" value="Latitude"/>	<input type="text" value="Longitude"/>
	<input type="text" value="Instructions"/>		

**15. Longitude** – Provide the longitude coordinate for the feature.

If the coordinate is not obtainable from a collection device, use the WSDOT Geoportal application to identify the coordinate. Instructions for using the Geoportal application can be found by click on the Instructions hyperlink.

<input type="text" value="Geoportal"/>	<input type="text" value="Latitude"/>	<input type="text" value="Longitude"/>
<input type="text" value="Instructions"/>		

**16. Accuracy** – Identify the method used to obtain the Lat/Long coordinates. Select from the drop-down list.

<input type="text" value="Accuracy"/>	<input type="text" value="ADA"/>
Method used to get Lat/Long Was it taken from an aerial image (Geoportal), or was it taken in the field with GPS?	
<input type="text" value="Geoportal"/>	<input type="text" value="GPS Field Device"/>
<input type="text" value="Other-NOTES"/>	<input type="text" value=""/>

17. **NOTES** - Each form has a “Notes” block to provide additional details on a measurement or details about the feature.
18. **Measurement tool information and calibration** – Provide the following information pertaining to the measurement tool used to measure slopes.
- The serial number of the equipment used for measuring slopes
  - The name of the person who did the calibration
  - The date the tool was calibrated.* At a minimum, the tool is to be calibrated daily.

 **Special Note:**

If by visually looking at the ramp it is obvious that there are ADA compliance issues (i.e. steep slopes, no landing is present, poor condition, etc.) then there is no need to perform any measurements. Select “Yes” and complete the remaining “Required Field” entries.

Visually Identified the Feature is ADA non-Compliant, no measurements taken

CSW

Scoping Phase ONLY  
If in Scoping Phase, pick from drop-down list.

- Yes
- NA - Not Applicable

Complete SR, MP, A/B, Lt or Rt

pass KS#2

Also, the Feature Status returns a “Fail”

**= Required Field**

**Phase** Scoping

Database Schema: CR-PARA

Survey/Feature Status: **FAIL**

Milepost: A/B

Station: Lt or Rt?

MEF Status: Standard ADA

MEF Reference:

Geoportals

Instructions

Latitude Longitude Accuracy

Enter numbers only  
1 = 1.00%, 2.25 = 2.25 ft, etc.

Measurement

ADA Compliance Criteria

MEF Criteria

Measurements taken: Yes

**Landing**

CSW

2.00% Max

% Max

Otherwise, select “N/A” and complete measurements.

Visually Identified the Feature is ADA non-Compliant, no measurements taken

NA

Curb

 **Special Note:**

If, as measurements are being recorded, any of the measurements result in a “Fail”, no further measurements are needed; the feature is not compliant. Stop any further recording and add a note in the **NOTES** box on the form

stating **“Stopped further measurements”**. The form status should then show the Survey/Feature Status as **“Fail”**. Move onto the next feature.

<b>Phase</b>	Scoping		Database Schema: CR-PERP	
<b>SR</b>	5		Survey/Feature Status: <b>FAIL</b>	
<b>Milepost</b>	2.3	A	MEF Status: Standard ADA	
<b>Station</b>		L	MEF Reference: _____	
<b>Geoportal</b>	47.034085	-122.9	Geoportal	
<b>Instructions</b>	Latitude	Longitude	Accuracy	
	Enter numbers only 1 = 1.00%, 2.25 = 2.25 ft, etc.		<b>Measurement</b>	<b>ADA Compliance Criteria</b>
<b>NA</b>	<b>Landing</b>		<b>MEF Criteria</b>	
	pass	CSW	1.90	2.00% Max
	<b>FAIL</b>	CSL	2.50	2.00% Max
<b>Buffer</b>		W		4.00 ft Min
		L		ft Min
			Landing Width Enter number only, please	
	⑦ Measure Curb Gap, if present, between			
	<b>NOTES</b>			
	Stopped further measurements			

### III. Status of a Feature

The forms have been designed to provide immediate feedback.

#### A. Additional measurement or information data is needed to complete the form

<b>Survey/Feature Status</b>	incomplete form
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#### B. For each measurement recorded, the status of ADA compliancy is provided for immediate feedback

pass	CSW	1.88	2.00% Max
------	-----	------	-----------

Or

<b>FAIL</b>	CSW	2.15	2.00% Max
-------------	-----	------	-----------

C. In addition, as measurements are recorded, the running and then Final status of the feature will be shown on the form.

The figure shows four sequential screenshots of a form, each with a red arrow pointing to it from the left. The form displays the following information:

- Schema:** CR-COMB
- Survey/Feature Status:** incomplete form
- MEF Status:** Standard ADA

The second screenshot shows:

- Database Schema:** CR-PERP
- Survey/Feature Status:** pass
- MEF Status:** Standard ADA

The third screenshot shows:

- Survey/Feature Status:** FAIL
- MEF Status:** Standard ADA

The fourth screenshot shows:

- Survey/Feature Status:** pass
- MEF Status:** Has MEF
- MEF Reference:** XL2222

## IV. ADA Features

Each Feature has a different set of required measurements. Below is detailed information or an explanation of various data fields found on the various forms.

### A. Curb Ramps

1. Forms to Record Data:

- Perpendicular
- Parallel Curb Ramp
- Parallel 1-Direction
- Combination

2. Data Fields Explanation:

a) For each of the fields listed below select whether or not the attribute applies:

- i) **Diagonally Orientated** – Identify whether or not the ramp points into the center of the intersection.

The screenshot shows a form field with the label "Diagonally Oriented?". To the right of the label is a dropdown menu with a downward arrow. The dropdown menu is open, showing two options: "Yes" and "No". Below the dropdown menu, the text "Visually Identified the Feature is ADA" is visible.



- ii) **Clear Space Achieved** – Identify whether or not a clear space is provided at the bottom of the curb ramp.

Clear Space Achieved?  4 ft Min if Diagonally Oriented

Clear Space Achieved?  4 ft Min if Diagonally Oriented

Yes  
No  
MEF  
n/a

Clear Space Requirement  
Pick from drop-down list.  
If MEF, describe in NOTES section

GB6

Landing

**1510.09(2)(j) Clear Space**

- Beyond the curb face where the bottom of a curb ramp or landing meets the gutter, a clear space of 4 feet minimum by 4 feet minimum shall be provided in the roadway that is contained within the width of the crosswalk and located wholly outside the parallel vehicle travel lane.

*Note:* Clear space is easily achieved when a separate curb ramp is provided, oriented in each direction of pedestrian travel within the width of the crosswalk it serves.

- b) **Landing** – Provide measurements

Enter numbers only  
1 = 1.00%, 2.25 = 2.25 ft, etc.

	Measurement	Compliance Criteria	MEF Criteria
<b>Landing</b>			
CSW		2.00% Max	% Max
CSL		2.00% Max	% Max
W		4.00 ft Min	ft Min
L		4.00 ft Min	ft Min

**1510.09(2)(d) Landing**

A level landing is required either at the top of a perpendicular ramp or the bottom of a parallel curb ramp, as noted in 1510.09(1)(a) and (b) for the type of curb ramp used.

- Provide a landing that is at least 4 feet minimum length by 4 feet minimum width.
- The running and cross slopes of a curb ramp landing shall be 2% maximum.

*Note:* It is recommended that cross slopes be designed to be less than the allowed maximum to allow for some tolerance in construction. For example, design for a maximum 1.5% cross slope (rather than 2% maximum).

*Exception:* The running and cross slopes of landings for curb ramps at midblock crossings are permitted to match the street or highway grade.

c) **Ramp** – Provide measurements

<b>Ramp</b>				
RS		8.30% Max		% Max
CS		2.00% Max		% Max
W		4.00 ft Min		ft Min
L		15.00 ft Max		ft Max

 **Special Note:**

For Curb Ramp types **Parallel** and **Combination**, the feature may have or may not have a Ramp Left or Right associated it and requires the recorder to identify if the Ramp is Present or not.

<b>Ramp Left #2</b>		Present		
RS#2		Present Not Present		% Max
CS#2		Is there a Ramp (Left) #2? Present = YES Not Present = NO		% Max
W#2				ft Min
L#2		15.00 ft Max		ft Max

<b>Ramp Right #3</b>		Present		
RS#3		Present Not Present		% Max
CS#3		Is there a Ramp (Right) #3? Present = YES Not Present = NO		% Max
W#3				ft Min
L#3				ft Max

(1) If the Ramp is present select **Present** from the drop-down list and record the information required.

<b>Ramp Left #2</b>		Present		
pass	RS#2	7.90	8.30% Max	% Max
pass	CS#2	1.80	2.00% Max	% Max
pass	W#2	4.90	4.00 ft Min	ft Min
pass	L#2	9.10	15.00 ft Max	ft Max

(2) If a ramp is not present, select **Not Present** and notice that the associated data cells and ramp Grade Breaks are shaded and auto-filled with "n/a".

Diagram illustrating a curb ramp and landing configuration. Labels include: W, W#3, CS#3, GB6, GB7, DWS, Counter Slope, Ramp, Landing, DWS-W, DWS-L, and Curb Gap.

Legend:

- CS = Cross Slope
- RS = Running Slope
- CSW = Cross Slope of Width
- CSL = Cross Slope of Length
- W = Width
- L = Length
- GB = Grade Break
- ⊙ = Location Point (at middle of landing)

		L	4.00 ft Min	ft Min
<b>Ramp Left #2</b>			<i>Present</i>	
RS#2			8.30% Max	% Max
CS#2			2.00% Max	% Max
W#2			4.00 ft Min	ft Min
L#2			15.00 ft Max	ft Max
<b>Ramp Right #3</b>			<i>Not Present</i>	
RS#3	n/a		8.30% Max	% Max
CS#3	n/a		2.00% Max	% Max
W#3	n/a		4.00 ft Min	ft Min
L#3	n/a		15.00 ft Max	ft Max
<b>Counter Slope</b>				
S			5.00% Max	% Max
CSW + S	sum		7.00% Max	% Max
<b>Grade Breaks</b>				
GB#1				
GB#2				
GB#3				
GB#4				
GB#5				
GB#6	n/a			
GB#7	n/a			

**1510.09(2)(a) Clear Width**

- The clear width of curb ramps and their landings shall be 4 feet minimum, excluding flares.

**1510.09(2)(b) Running Slope**

- The running slope of curb ramps shall not exceed 8.3% maximum.

*Note:* It is recommended that running slopes be designed to be less than the allowed maximum to allow for some tolerance in construction. For example, design for a maximum 7.5% curb ramp running slope (rather than the 8.3% maximum).

- The running slope of a perpendicular curb ramp shall intersect the gutter grade break at a right angle at the back of curb.
- The curb ramp maximum running slope shall not require the ramp length to exceed 15 feet.

**1510.09(2)(c) Cross Slope**

- The cross slope of curb ramp shall not be greater than 2%, measured perpendicular to the direction of travel.

*Note:* It is recommended that cross slopes be designed to be less than the allowed maximum to allow for some tolerance in construction. For example, design for a maximum 1.5% cross slope (rather than the 2% maximum).

*Exception:* The cross slopes of curb ramps at midblock crossings are permitted to match the street or highway grade.

d) **Flare Slope** – Provide measurements

Flare Slope			
FS#1	<input type="text"/>	10% Max	<input type="text"/> % Max
FL#2	<input type="text"/>	10% Max	<input type="text"/> % Max

**1510.09(2)(e) Flares**

- Flared sides are to be used only where a pedestrian circulation path crosses the curb ramp from the side.
- Flared sides are to have a slope of 10% maximum, measured parallel to the back of curb.

e) **Counter Slope** – Provide measurement.

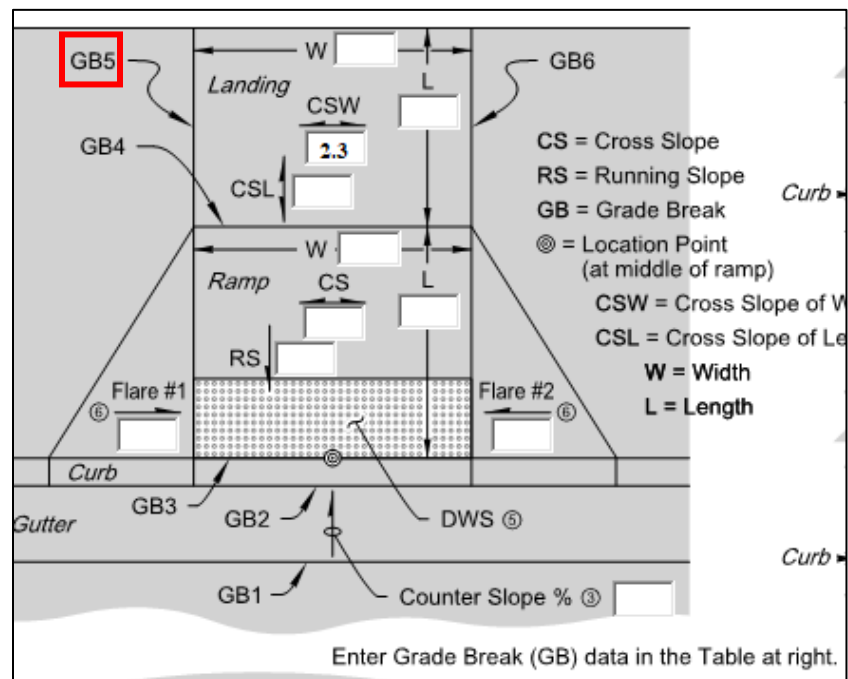
The form calculates the algebraic difference with the ramp slope to determine compliance.

Counter Slope			
S	<input type="text"/>	5.00% Max	<input type="text"/> % Max
RS + S	sum	11.00% Max	<input type="text"/> % Max

**1510.09(2)(f) Counter Slope**

- The counter slope of the gutter or street at the foot of a curb ramp or landing shall be 5% maximum.

f) **Grade Breaks** – Grade breaks (GB) are shown on the drawings.



 **Special Note:**

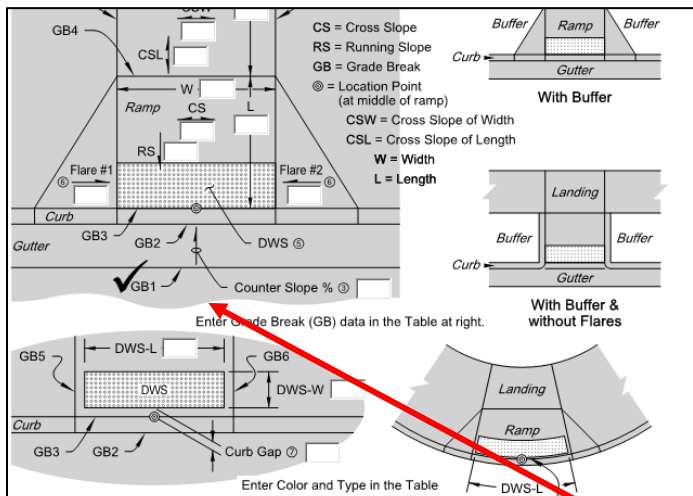
Be aware that the diagram does not provide sufficient space for a data box, therefore, select the type of Grade Break from the drop-down list. Notice that a large check will show up on the diagram showing that the measurement was completed.

**Grade Breaks**

GB#1	<input type="text"/>
GB#2	Flush 1/4-Inch or Less
GB#3	1/4 to 1/2-Inch YES Bevel 1/4 to 1/2-Inch NO Bevel
GB#4	Greater than 1/2-Inch
GB#5	
GB#6	

**Grade-Break at Joint**  
Choose measure:

1. Flush (0.00") No vertical Difference
2. 1/4-Inch (0.01 ft) or Less
3. Between 1/4 - 1/2-Inch WITH 1/4-inch Beveled at 2:1
4. Between 1/4 - 1/2-Inch WITHOUT 1/4-inch Beveled at 2:1
5. Greater than 1/2 Inch



CS = Cross Slope  
RS = Running Slope  
GB = Grade Break  
⊙ = Location Point (at middle of ramp)  
CSW = Cross Slope of Width  
CSL = Cross Slope of Length  
W = Width  
L = Length

Enter Grade Break (GB) data in the Table at right.

Enter Color and Type in the Table

**Detectable Warning Surface Detail**

W	4.00 ft Min
L	4.00 ft Min
<b>Ramp</b>	
RS	8.30% Max
CS	2.00% Max
W	4.00 ft Min
L	15.00 ft Max
<b>Flare Slope</b>	
FS#1	10% Max
FL#2	10% Max
<b>Counter Slope</b>	
S	5.00% Max
RS + S	sum 11.00% Max
<b>Grade Breaks</b>	
pass	GB#1 <input type="text" value="Flush"/>

**Notes:**

- ① Always take measurement in the center of element, except where noted.
- ② GB must be flush—record worst case measure of vertical change over the length of each GB.
- ③ Measure Counter Slope between GB1 and GB2 (Gutter)—if no gutter, measure 1 ft. max. from GB2.
- ④ Slope arrow indicates positive read. Just record value when both directions shown.
- ⑤ Detectable Warning Surface—see detail.
- ⑥ Measure Flare Slope parallel to curb.

 **Special Note:**

If the form is being filled out in the field by hand first, record the measurement between the two surfaces so that the correct drop-down selection can be selected on the electronic form.

**1510.09(2)(i) Grade Breaks**

- Vertical alignment shall be planar within curb ramp runs, landings, and gutter areas within the pedestrian access route.
- Grade breaks at the top and bottom of curb ramps shall be perpendicular to the direction of travel on the ramp run.
- Surface slopes that meet at grade breaks shall be flush.

g) **Type of DWS** – Provide measurements. Also identify the type of DWS found (Select from the drop-down list)

Detectable Warning Surface	
L	Match Ramp W
W	2.00 ft Min
Color	DOT - Yellow
Type	Truncated

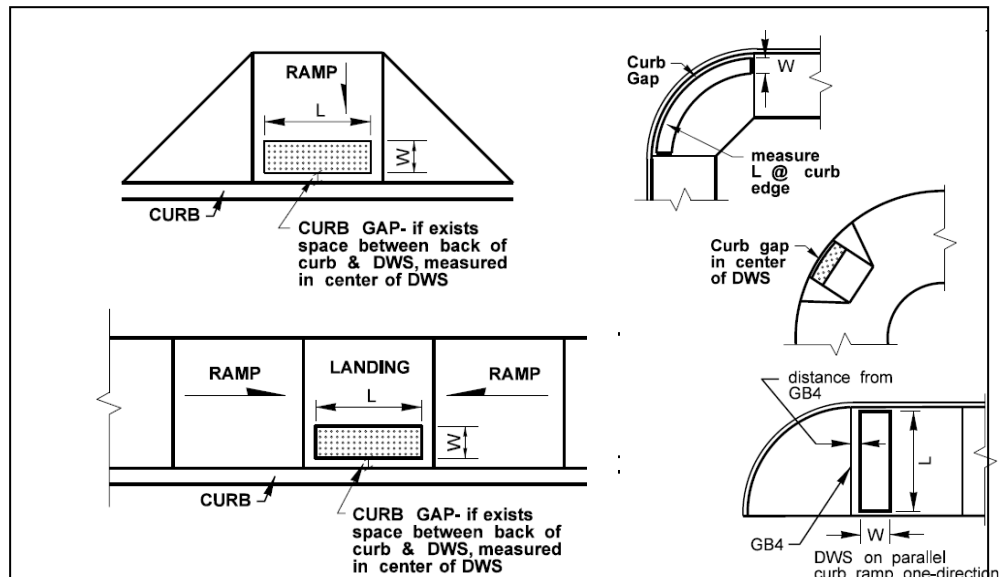
**1510.09(2)(g) Detectable Warning Surfaces**

- Detectable warning surfaces are required where curb ramps or landings connect to a roadway. (See the *Standard Plans* for placement details and other applications.)
- Detectable warning surfaces shall contrast visually (either light-on-dark or dark-on-light) with the adjacent walkway surface, gutter, street, or highway.

*Note:* Federal yellow is the color used to achieve visual contrast on WSDOT projects. Within cities, other contrasting colors may be used if requested by the city.

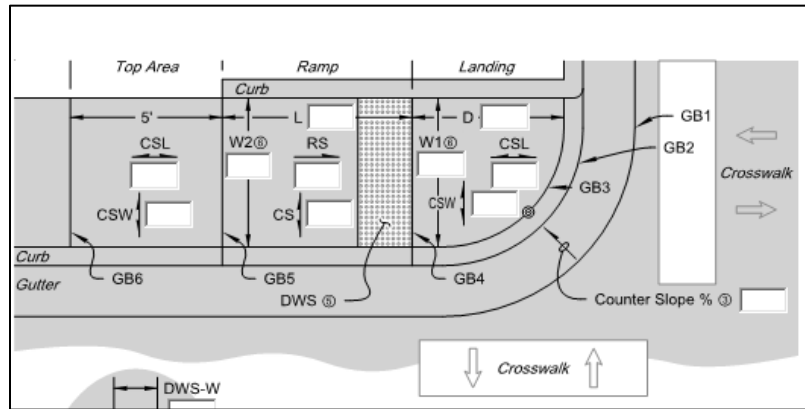
h) **Curb Gap** – Provide measurement.

Curb Gap	
CG	0.17 ft Max



i) **Top Area – Parallel 1-Direction Ramp only**

Provide measurements.



**Special Note: CSL Measurement**

CSL Measurement is informational only as it can follow the grade of the road.

		10.00 ft. Max	ft. Max
<b>Top Area</b>			
informational	CSL		
	CSW	2.00% Max	% Max
	W#2	4.00 ft. Min	ft. Min

**B. Median and Island Cut Thru**

1. Forms to Record Data:

- CutThru

**ADA Feature - Cut-Through Median or Traffic Island Measurements** = Required Field

Database Schema: ISLAND\_P  
MEDIAN\_LP

**Phase** Scoping

**Contract / Work Order**  **Date Measured**  **SR**  **Feature Status** Incomplete Form

**Measured By**  **Milepost**  **A/B** 2 **IF Status** Standard ADA

**Cross Street Name**  **Site**  **Station**  **Location**  **Geoportal**  **MEF Reference**

**Reference**  **Instructions**  **Latitude**  **Longitude**  **Accuracy**

**Feature Location Code**  **Jurisdiction**

**Site History**  **Constructed By**

**Confirmed the Feature is ADA non-Compliant, no measurements taken**

**Cut-thru Type**

**PAR Material**

**Median Cut-thru**

MW = Median Cut-thru Width  
ML = Median Cut-thru Length  
CS = Cross Slope  
RS = Running Slope  
GB = Grade Break  
● = Location Point

**Island**

Enter Color and Type in the Table  
Detectable Warning Surface  
Detail

Enter numbers only  
1 - 1.00%, 2, 25 - 2.25ft, etc.

	Measurement	ADA Compliance Criteria	MEF Criteria
<b>Median</b>			
<b>MW</b>		5.00 Ft Min	Ft Min
<b>ML</b>		6.00 Ft Min	Ft Min
<b>RS</b>		Informational	
<b>CS</b>		2.00% Max	% Max
<b>Island</b>			
<b>C1RS</b>		Informational	
<b>C1W</b>		5.00 Ft Min	Ft Min
<b>C1CS</b>		2.00% Max	% Max
<b>C2RS</b>		Informational	
<b>C2W</b>		5.00 Ft Min	Ft Min

2. Data Fields Explanation:

a) **Cut-Thru – Type:** Select the type of roadway feature from the drop-down list.

**Cut-thru Type**

**Cut-thru Type**  
Choose type from list:

1. Median
2. Island
3. Other

1 = 1.00%

Measurement	ADA Compliance Criteria	MEF Criteria



b) **PAR Material:** Select the material type the PAR thru the roadway feature is constructed of from the drop-down list.

<b>Cut-thru Type</b>		<b>Median</b>	
<b>PAR Material</b>		<div style="border: 1px solid black; padding: 2px;">             1. Asphalt              2. Cement Concrete              3. Dirt              4. Other           </div>	
<b>Driveway PAR Material Type:</b> Choose type from list:  1. Asphalt 2. Cement Concrete 3. Dirt 4. Other  If "Other" describe in Notes.		Measurement	Criteria
		5.00 ft Min	

 **Special Note:**

Depending on the type of Cut-thru selected, portions of the form that are not relevant are shaded.

(1) For a Median

<b>Cut-thru Type</b>	<b>Median</b>		
<b>PAR Material</b>	<b>1. Asphalt</b>		
	<b>ADA Compliance Criteria</b>	<b>MEF Criteria</b>	
<b>Median</b>			
<b>MW</b>	<input type="text"/>	5.00 ft Min	<input type="text"/> ft Min
<b>ML</b>	<input type="text"/>	6.00 ft Min	<input type="text"/>
<b>RS</b>	Informational		
<b>CS</b>	<input type="text"/>	2.00% Max	<input type="text"/> % Max
<b>Island</b>			
<b>C1RS</b>	Informational		
<b>C1W</b>	<input type="text"/>	5.00 ft Min	<input type="text"/> ft Min
<b>C1CS</b>	<input type="text"/>	2.00% Max	<input type="text"/> % Max
<b>C2RS</b>	Informational		
<b>C2W</b>	<input type="text"/>	5.00 ft Min	<input type="text"/> ft Min
<b>C2CS</b>	<input type="text"/>	2.00% Max	<input type="text"/> % Max
<b>C3RS</b>	Informational		
<b>C3W</b>	<input type="text"/>	5.00 ft Min	<input type="text"/> ft Min
<b>C3CS</b>	<input type="text"/>	2.00% Max	<input type="text"/> % Max
<b>Detectable Warning Surface – C1</b>			
<b>L</b>	<input type="text"/>	Match Ramp W	
<b>W</b>	<input type="text"/>	2.00 ft Min	
<b>Color</b>	<input type="text"/>	DOT - Yellow	
<b>Type</b>	<input type="text"/>	Truncated	
<b>Detectable Warning Surface – C2</b>			
<b>L</b>	<input type="text"/>	Match Ramp W	
<b>W</b>	<input type="text"/>	2.00 ft Min	
<b>Color</b>	<input type="text"/>	DOT - Yellow	
<b>Type</b>	<input type="text"/>	Truncated	
<b>Detectable Warning Surface – C3</b>			
<b>L</b>	<input type="text"/>	Match Ramp W	

(a) Record the measurements for MW, ML, RS, CS

		ADA Compliance	
		Measurement	Criteria
			MEF Criteria
<b>Median</b>			
MW	<input type="text"/>	5.00 ft Min	<input type="text"/> ft Min
ML	<input type="text"/>	6.00 ft. Min	<input type="text"/>
RS	<input type="text"/>	Informational	<input type="text"/>
CS	<input type="text"/>	2.00% Max	<input type="text"/> % Max

Enter numbers only  
1 = 1.00%, 2.25 = 2.25 ft, etc.

(b) Record the measurements for C1 and C2

<b>Detectable Warning Surface – C1</b>			
L	<input type="text"/>	Match Ramp W	
W	<input type="text"/>	2.00 ft Min	
Color	<input type="text"/>	DOT - Yellow	<input type="text"/>
Type	<input type="text"/>	Truncated	
<b>Detectable Warning Surface – C2</b>			
L	<input type="text"/>	Match Ramp W	
W	<input type="text"/>	2.00 ft Min	
Color	<input type="text"/>	DOT - Yellow	Exception – See Notes
Type	<input type="text"/>	Truncated	

a. Record the measurements for grade breaks

Type	Truncated
<b>Grade Breaks</b> (Input - fraction or decimal of an inch)	
GB#1	<input type="text"/>
GB#2	<input type="text"/>
GB#3	<input type="text"/>

(2) For an Island

<b>Out-thru Type</b>	Island	
<b>PAR Material</b>	1. Asphalt	
<b>Color numbers only</b> 88X, 2.25 - 2.25 ft, etc.	<b>ADD Compliance</b>	<b>NEP Criteria</b>
	Compliance	Criteria
<b>Median</b>		
HW	5.00 ft Min	ft Min
HL	5.00 ft Min	
RS	Informational	
CS	2.00 ft Max	ft Max
<b>Island</b>		
<b>C1R1</b>	Informational	
<b>C1W</b>	5.00 ft Min	ft Min
<b>C1CS</b>	2.00 ft Max	ft Max
<b>C2R1</b>	Informational	
<b>C2W</b>	5.00 ft Min	ft Min
<b>C2CS</b>	2.00 ft Max	ft Max
<b>C3R1</b>	Informational	
<b>C3W</b>	5.00 ft Min	ft Min
<b>C3CS</b>	2.00 ft Max	ft Max
<b>Detectable Warning Surface - C1</b>		
<b>L</b>	Minimum Ramp W	
<b>W</b>	2.00 ft Min	
<b>Color</b>	DOT - Yellow	
<b>Type</b>	Textured	
<b>Detectable Warning Surface - C2</b>		
<b>L</b>	Minimum Ramp W	
<b>W</b>	2.00 ft Min	
<b>Color</b>	DOT - Yellow	Exception - See Notes
<b>Type</b>	Textured	
<b>Detectable Warning Surface - C3</b>		
<b>L</b>	Minimum Ramp W	
<b>W</b>	2.00 ft Min	
<b>Color</b>	DOT - Yellow	
<b>Type</b>	Textured	
<b>Grade Break Height - Section or Item of an wall</b>		
<b>GBH1</b>		
<b>GBH2</b>		

(a) Record the measurements for CRS, C1W, C1CS, C2RS, C2W, C2CS, C3RS, C3W, C3CS

**Legend:**  
 MW = Median Cut-thru Width  
 ML = Median Cut-thru Length  
 CS = Cross Slope  
 RS = Running Slope  
 GB = Grade Break  
 ⊙ = Location Point

**Median Cut-thru**  
 C3W, C3 DWS, GB3, C3RS, C3CS

**Island Cut-thru**  
 C2W, GB2, C2CS, C2RS, C1CS, C1RS, C1W, GB1, C1 DWS, C2 DWS

**Notes:**  
 ① Always take measurement in the center of element, except where noted.  
 ② GB must be flush—record worst case measure of vertical change over the length of each GB.  
 ③ Slope arrow indicates positive read. Just record value when both directions shown.  
 ④ Detectable Warning Surface—see detail.

**Detectable Warning Surface Detail**  
 Enter Color and Type in the Table

Island			
C1RS		Informational	
C1W	5.00 ft Min		ft Min
C1CS	2.00% Max		% Max
C2RS		Informational	
C2W	5.00 ft Min		ft Min
C2CS	2.00% Max		% Max
C3RS		Informational	
C3W	5.00 ft Min		ft Min
C3CS	2.00% Max		% Max

Detectable Warning Surface – C1			
L		Match Ramp W	
W		2.00 ft Min	
Color		DOT - Yellow	
Type		Truncated	

(b) Record the measurements for C1, C2, and C3

Detectable Warning Surface – C1			
L		Match Ramp W	
W		2.00 ft Min	
Color		DOT - Yellow	
Type		Truncated	

Detectable Warning Surface – C2			
L		Match Ramp W	
W		2.00 ft Min	
Color		DOT - Yellow	Exception – See Notes
Type		Truncated	

Detectable Warning Surface – C3			
L		Match Ramp W	
W		2.00 ft Min	
Color		DOT - Yellow	
Type		Truncated	



For Sidewalk the "Site" location defaults to "Side"

Site Side Location Corner Island Median Side Other - NOTES		Measurements recorded on this form are for one side only. Do not mix measurements from both sides on the same form.
Which area of the roadway? Select which part of the roadway the feature is located: Is it on a corner, an island, a median, or on the side of the road? If it is not on any of those, pick "Other" and describe in NOTES.		
Location Sidewalk Obstruction Type		Enter numbers only 1 = 1.00%, 2.25 = 2.25 ft, etc.
Latitude Longitude Station MP Characteristics		Sidewalk Width (SWW) Measurement ADA Compliance 4.00 ft Min MEF Criteria

2. Data Fields Explanation:
  - a) **Latitude** – Provide the latitude coordinate for the feature.
  - b) **Longitude** – Provide the longitude coordinate for the feature.
  - c) Provide the **Station** if used
  - d) Provide the **MP**
  - e) **Sidewalk Characteristics** - There are eight choices that apply to construction

Select from the drop-down list to identify the context for the measurement.

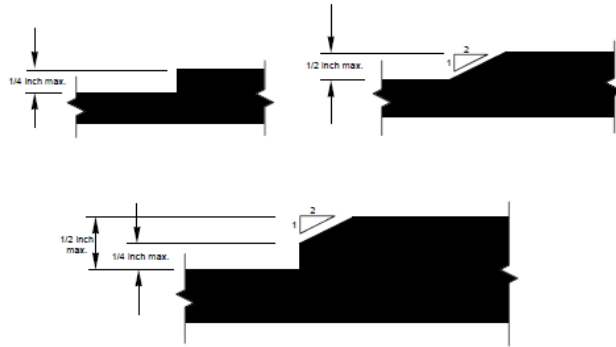
MP	Sidewalk Characteristics	Obstruction Type	ADA Compliance 4.00 ft Min	MEF Criteria	ADA Compliance 2.00% Max	MEF Criteria
				f Min		% Max
				/in		% Max
				/in		% Max
				/in		% Max
				/in		% Max
				/in		% Max
				/in		% Max
				f Min		% Max

- (1) *Start of Sidewalk* – This identifies where the sidewalk begins. Could be where the curb ramp adjoins the sidewalk. Record the width and cross slope at that location.
- (2) *Interval Measurement* – At approx.. 50-ft intervals along the sidewalk record the width and cross slope.
- (3) *Vertical Surface Discontinuity* - Record any location where there is a vertical difference in sidewalk surfaces of more than ¼ inch.

1510.07(1)(c) Surface

- The surface of the pedestrian access route shall be firm, stable, and slip resistant. Use hard surfaces like cement or asphalt concrete; crushed gravel is not considered to be a stable, firm surface.
- Vertical alignment shall be planar within curb ramps, landings, and gutter areas within the pedestrian access route and within clear spaces for accessible pedestrian signals, street furniture, and operable parts.
- Grade breaks shall be flush.
- Surface discontinuities (see Exhibits 1510-4 and 1510-5) on existing surfaces in the pedestrian access route (such as at the joints of settled or upheaved sidewalk panels) may not exceed 1/4 inch maximum. Vertical discontinuities between 1/4 inch and 1/2 inch maximum shall be beveled at 2H:1V or flatter. Apply the bevel across the entire level change.

*Exception:* No surface discontinuity is allowed at the connection between an existing curb ramp or landing and the gutter. This grade break must be flush.



Beveling Options  
Exhibit 1510-4

(4) *Change In Width* - Record any locations where there is a change in the sidewalk width. Record the width and cross slope at that location.

(5) *Change In Cross Slope* - Record any location where the cross slope changes. Record the width and cross slope at that location.

(6) *End of Sidewalk* – This identifies where the sidewalk section ends, or where a transition segment begins, or where the sidewalk adjoins a curb ramp. Record the width and cross slope at that location.

(7) *Transition Segment to Existing Sidewalk* – If the sidewalk transitions back to an existing sidewalk, record measurements at the match line with the existing sidewalk.

(8) *Obstruction* – An obstruction is any object within the sidewalk that reduces the **clear width** to less than 4-ft. Record any location where these are found.

1510.07(1)(a) Clear Width

- The minimum continuous and unobstructed clear width of a pedestrian access route shall be 4 feet, exclusive of the width of the curb.
- Pedestrian access routes that are less than 5 feet in clear width, exclusive of the width of the curb, shall provide passing spaces at intervals no farther apart than 200 feet. Passing spaces shall be 5 feet wide minimum, for a minimum distance of 5 feet.

(9) *No Curb Ramp* – Select when there is no curb ramp present of any type to get from the top of the sidewalk to the roadway.

 **Special Note:**

If the reason for the measurement is related to an Obstruction, complete the Obstruction Type.

f) **Obstruction Type** - Select from the drop-down list to identify the obstruction type.

		<b>Measurement</b>	
Enter numbers only 1 = 1.00%, 2.25 = 2.25 ft, etc.		<b>Sidewalk Width</b>	
<b>Sidewalk</b>		ADA Compliance	MEF C
<b>Characteristics</b>	<b>Obstruction Type</b>	4.00 ft Min	
7. Obstruction			
<b>Sidewalk Obstruction Type</b> Only complete ONLY if obstruction is present.  If no obstruction, skip.  If MEF, describe in NOTES section.			

<b>Sidewalk</b>		ADA
<b>Characteristics</b>	<b>Obstruction Type</b>	
7. Obstruction		
	23. Shrubs 24. Sign 25. Signal Pole 26. Telephone Boc 27. Tree 28. Wall 29. Water Valve 30. Other	

Obstructions might include:

Bench	Branch	Bridge Expansion Joint
Building	Catch Basin	Fence
Fire Hydrant	Grate Inlet	Ground Cover
Guardrail	Guy Anchor	Guy Wire
Junction Box	Large Vault -Electric	Large Vault -Utility
Manhole	Newspaper Stand	Parking Meter
Parked Vehicle	Portable Sign Board	Power Pole
Shrubs	Sign	Signal Pole
Tree	Telephone Booth	Wall
Water Valve	Other	MEF



**Special Note:**

If an obstruction has been documented as a MEF, select MEF from the drop-down list, record the measurements, and in the NOTES box on the form add any additional pertinent information.



						Sidewalk Width (SWW)		Cross
Enter numbers only 1 = 1.00%, 2.25 = 2.25 ft, etc.						Measurement		Measurem
Location				Sidewalk		ADA Compliance	MEF Criteria	ADA Compliance
Latitude	Longitude	Station	MP	Characteristics	Obstruction Type	4.00 ft Min		2.00% Max
				8. Obstruction	17. MEF		ft Min	
							ft Min	
							ft Min	
							ft Min	
							ft Min	
							ft Min	

**Sidewalk Obstruction Type**  
Only complete ONLY if obstruction is present.  
If no obstruction, skip.  
If MEF, describe in NOTES section.

g) **Sidewalk Width** – Record the sidewalk width at that location. **Cross Slope** – Record the cross slope of the sidewalk at that location.

### D. Independent Shared Use Paths (ISUP)

- Forms to Record Data:
  - ISUP

ADA Feature - Independent Shared Use Path (ISUP)											
Phase								Database Schema:		ISUP	
Contract / Work Order		Date Measured						Form Status		complete form	
Measured By								MEF Status		Standard ADA	
Cross Street Name		SR						MEF Reference			
Plan Sheet Reference											
Feature Location Code		Jurisdiction									
Site History		Constructed By									
<a href="#">Instructions</a> <a href="#">Geoportal</a>		<a href="#">Accuracy</a>		Enter numbers only 1 = 1.00%, 2.25 = 2.25 ft, etc.		<b>Left Shoulder Width (LSW)</b> ADA Compliance 2 ft Min		<b>ISUP Width (PW)</b> ADA Compliance 10 ft Min		<b>Right Shoulder Width (RSW)</b> ADA Compliance 2 ft Min	
						ADA Compliance 2.00% Max		ADA Compliance 4.00% Max		ADA Compliance 4.00% Max	
						Measurement MEF Criteria		Measurement MEF Criteria		Measurement MEF Criteria	
						ft Min		ft Min		% Max	
						ft Min		ft Min		% Max	
						ft Min		ft Min		% Max	
						ft Min		ft Min		% Max	
						ft Min		ft Min		% Max	
						ft Min		ft Min		% Max	
						ft Min		ft Min		% Max	
						ft Min		ft Min		% Max	

**OBSTRUCTIONS**

This form allows multiple measurements to be recorded on the same form along a shared use path.

For ISUP the “Site” location defaults to “Side”

**Date Measured** \_\_\_\_\_

Site	Side
Location	0

2. Data Fields Explanation:
  - a) **Latitude**– Provide the latitude coordinate for the feature.
  - b) **Longitude** – Provide the longitude coordinate for the feature.
  - c) Provide the **Station** if used
  - d) Provide the **MP** for each measurement, if available.
  - e) **Characteristics** - There are nine choices, select from the drop-down list to identify the reason for the measurement. Enter the measurements made.

Instructions		Accuracy		Enter numbers only 1 = 1.00%, 2.25 = 2.25 ft, etc.		Left Shoulder Width (LSW)	
Geoportal						ADA Compliant	
Location				ISUP			
Latitude	Longitude	Station	MP	Characteristics	Obstruction Type	Measurement	MEF Criteria
							ft Min
				1. Start of ISUP 2. Interval Measurement 3. Vertical Surface Discontinuity 4. Change in Width 5. Change in Cross Slope 6. Change in Running Slope 7. End of ISUP 8. Transition Segment to Existing ISUP			
<b>ISUP Characteristics</b> Select from drop-down list the location characteristic that prompts a measurement.  Is it the start of the path, just a regular interval, a change in the path, an obstruction, etc.							

- (1) *Start of ISUP* – This identifies where the ISUP begins. Record the width and cross slope at that location.
- (2) *Interval Measurement* – At approx.. 50-ft intervals along the ISUP record the width and cross slope.
- (3) *Vertical Surface Discontinuity* - Record any locations where there is a vertical difference in surfaces of more than ¼ inch.
- (4) *Change In Width* - Record any locations where there is a change in the ISUP width. Record the width and cross slope at that location.
- (5) *Change In Cross Slope* - Record any location where the cross slope changes. Record the width and cross slope at that location.
- (6) *Change in Running Slope* – Record location where the running slope changes.
- (7) *End of ISUP* – This identifies where the ISUP section ends, or where a transition segment begins, or where the ISUP adjoins another feature. Record the width and cross slope at that location.
- (8) *Transition Segment to Existing ISUP* – If the ISUP transitions back to an existing ISUP, record measurements at the match line with the existing ISUP.
- (9) *Obstruction* – An obstruction is any object within the ISUP that reduces the **clear width** to less than 10-ft. Record any location where these are found.

 **Special Note:**

If the reason for the measurement is related to an Obstruction, complete the Obstruction Type.

f) **Obstruction Type** - Select from the drop-down list to identify the obstruction type.

Location			ISUP		2 ft
Longitude	Station	MP	Characteristics	Obstruction Type	Measu
			8. Obstruction	<div style="border: 1px solid black; padding: 2px;">           6. Fence            7. Fire Hydrant            8. Grate Inlet            9. Ground Cover            10. Guardrail            11. Guy Anchor            12. Guy Wire            13. Junction Box         </div>	
			<b>ISUP Obstruction Type</b> Only complete ONLY if obstruction is present.  If no obstruction, skip.  If MEF, describe in NOTES section.		

Obstructions might include:

Bench	Branch	Bridge Expansion Joint
Building	Catch Basin	Fence
Fire Hydrant	Grate Inlet	Ground Cover
Guardrail	Guy Anchor	Guy Wire
Junction Box	Large Vault -Electric	Large Vault -Utility
Manhole	Newspaper Stand	Parking Meter
Parked Vehicle	Portable Sign Board	Power Pole
Shrubs	Sign	Signal Pole
Tree	Telephone Booth	Wall
Water Valve	Other	MEF

 **Special Note:**

If an obstruction has been documented as a MEF, select MEF from the drop-down list, record the measurements, and in the NOTES box on the form add any additional pertinent information.

g) **Left Shoulder Width (LSW)** – Record the measurement.

<b>Left Shoulder Width (LSW)</b>	
ADA Compliance	
2 ft Min	
Measurement	MEF Criteria
3.00	ft Min

h) **ISUP Width (PW)** – Record the measurement.

<b>ISUP Width (PW)</b>	
ADA Compliance	
10 ft Min	
Measurement	MEF Criteria
12.00	ft Min

i) **Right Shoulder Width (RSW)** – Record the measurement.

<b>Right Shoulder Width (RSW)</b>	
ADA Compliance	
2 ft Min	
Measurement	MEF Criteria
2.00	ft Min

j) **Cross Slope (CS)** – Record the measurement.

<b>Cross Slope (CS)</b>	
ADA Compliance	
2.00% Max	
Measurement	MEF Criteria
1.85	% Max

k) **Running Slope (RS)** – Record the measurement.

Running Slope (RS)	
ADA Compliance	5.00% Max
Measurement	MEF Criteria
4.20	% Max

**(a) Shared-Use Path Widths**

The appropriate paved width for a shared-use path is dependent on the context, volume, and mix of users. The desirable paved width of a shared-use path, excluding the shoulders on either side, is 12 feet. The minimum paved width, excluding the shoulders on either side, is 10 feet.

A paved width of more than 12 feet, excluding the shoulders on either side, may be appropriate when substantial use by both pedestrians and bicyclists is expected or maintenance vehicles are anticipated.

Shared-use path shoulders are typically unpaved and 2 feet wide on either side. Exhibits 1515-3 through 1515-5 provide additional information and cross-sectional elements.

On bridges or tunnels, it is common to pave the entire shared-use path, including shoulders. This usable width can be advantageous for emergency, patrol, and maintenance vehicles and allows for maneuvering around pedestrians and bicyclists who may have stopped. It also keeps the structure uncluttered of any loose gravel shoulder material.

**1. Exceptions to Minimum Path Widths**

A reduced path width of 8 feet may be designed at spot locations that present a physical constraint such as an environmental feature or other obstacle. Refer to the MUTCD for signing and pavement markings for such conditions.

In very rare circumstances, a reduced width of 8 feet may be used where the following conditions prevail:

- Bicycle traffic is expected to be low, even on peak days or during peak hours.
- Pedestrian use of the facility is not expected to be more than occasional.
- Horizontal and vertical alignments provide frequent, well-designed passing and resting opportunities.
- The shared-use path will not be regularly subjected to maintenance vehicle loading conditions that would cause pavement edge damage.
- The share-use path is for a short distance such as a spur connection to a neighborhood.

(e) **Clearances**

The minimum horizontal clearance from the edge of pavement to an obstruction (such as bridge piers or guardrail) is 2 feet. Provide a minimum vertical clearance of 10 feet from the pavement surface to overhead obstructions to accommodate maintenance vehicles, bicyclists, and equestrians.

(a) **Running Slopes**

Design running slopes (grades) on shared-use paths less than or equal to 5% to accommodate all user types, including pedestrians with disabilities.

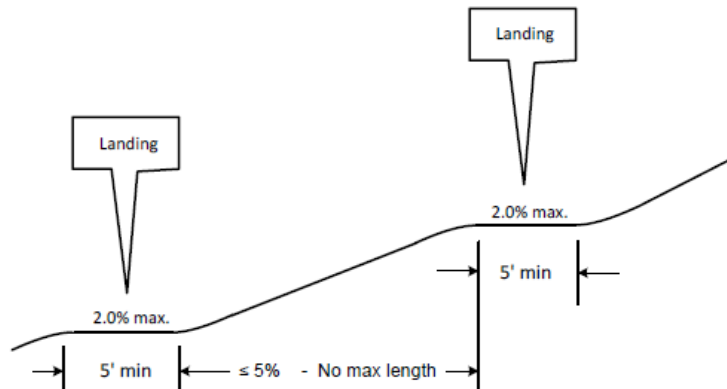
When the path is within the highway right of way, its running slope can match the general grade established for the adjacent roadway.

(b) **Landings**

Shared-use path landings provide users a level place to rest on extended grades. Exhibits 1515-6 and 1515-7 show these features.

Design landings to:

- Permit users to stop periodically and rest.
- Not exceed maximum running slopes and cross slopes of 2%.
- Be in line and as wide as the shared-use path. Landings are to be at least 5 feet long.
- Avoid abrupt grade changes or angle points. Design transitions to landings using vertical curves.



**Notes:**

- Landings are desirable on extended grades.
- Design vertical curves to transition from the grade to the landing.
- Exhibit 1515-7 illustrates a landing and a rest area.

**Shared-Use Path Landing Profile**

*Exhibit 1515-6*

## E. Driveways

- Forms to Record Data:
  - Driveway

### ADA Feature - Driveway Measurements

Record measurements in the appropriate diagram according to driveway type. ONLY 1 driveway per form.

<b>Contract / Work Order</b> _____	<b>Date Measured</b> _____	<b>Phase</b>	<b>SR</b>	<b>Database Schema:</b> DW
<b>Measured By</b> _____		<b>Milepost</b>	A/B ?	<b>Survey/Feature Status:</b> incomplete form
<b>Cross Street Name</b> _____	Site	<b>Station</b>	Lt or Rt?	<b>MEF Status:</b> Standard ADA
<b>Plan Sheet Reference</b> _____	Location	<a href="#">Geoportal</a>		<b>MEF Reference</b> _____
<b>Feature Location Code</b> _____	<b>Jurisdiction</b>	<a href="#">Instructions</a>	Latitude Longitude Accuracy	
<b>Site History</b> _____	<b>Constructed By</b>			

Project points 1 & 2 from where flare intercepts driveway.

Slope arrow indicates positive read. Just record value when both directions shown.

⊙ = Location Point (at middle)  
CS = Cross Slope  
W = Width

	Enter numbers only 1 = 1.00%, 2.25 = 2.25 ft, etc.	ADA Compliance Criteria	MEF Criteria
<b>Driveway</b>			
Type	<input type="text"/>		
PAR Material	<input type="text"/>		
<div style="border: 1px solid yellow; padding: 2px;"> <b>Driveway Type</b>                      Choose type from list:                      1. Access Across                      2. Access Jogs Around                      3. Parallel Access                      4. No PAR**                      **Only in Scoping Phase                 </div>			
<b>Point 1</b>			
W	<input type="text"/>		
CS	<input type="text"/>	2.00% Max	% Max
RS	<input type="text"/>	8.30% Max	% Max
<b>Point 2</b>			
W	<input type="text"/>	4.00 ft Min	ft Min

### 2. Data Fields Explanation:

- Driveway – Type:** Select the type of driveway from the drop-down list.

Enter numbers only  
1 = 1.00%, 2.25 = 2.25 ft, etc.

	Measurement	ADA Compliance Criteria	MEF Criteria
<b>Driveway</b>			
Type	<input type="text"/>		
PAR Material	<input type="text"/>		
<div style="border: 1px solid yellow; padding: 2px;"> <b>Driveway Type</b>                      Choose type from list:                      1. Access Across                      2. Access Jogs Around                      3. Parallel Access                      4. No PAR**                      **Only in Scoping Phase                 </div>			
<b>Point 1</b>			
W	<input type="text"/>		
CS	<input type="text"/>	2.00% Max	% Max

### Special Note:

Depending on which type of driveway was selected, some measurements are shaded out and are not measured.

etc.	Measurement	Criteria	MEF Criteria
<b>Driveway</b>			
pass	Type	Access Jogs Around	
	Material		
<b>Point 1</b>			
	W	4.00 ft Min	ft Min
	CS	2.00% Max	% Max
pass	RS	8.30% Max	% Max
<b>Point 2</b>			
	W	4.00 ft Min	ft Min
	CS	2.00% Max	% Max
<b>Point 3</b>			
	W	4.00 ft Min	ft Min
	CS	2.00% Max	% Max
pass	RS	8.30% Max	% Max
<b>Grade Breaks (Parallel Access ONLY)</b> (Input - fraction or decimal of an inch)			
	GB#1		
	GB#2		
	GB#3		
	GB#4		

b) **Driveway – PAR Material** – Select the type of material the driveway is constructed of.

etc.	Measurement	Criteria	MEF Criteria
<b>Driveway</b>			
pass	Type	Access Jogs Around	
pass	PAR Material	Cement Concrete	
<b>Point #1</b>			
pass	W	6	<b>Driveway PAR Material Type:</b> Choose type from list: 1. Asphalt 2. Cement Concrete 3. Dirt 4. Other If "Other" describe in Notes.
pass	CS	2.25	
pass	RS	8.00	



- c) **Points #1, #2, and #3** – Using the pictures on the form, identify where the Point #'s are located, and record the width “W”, cross slope “CS”, and run slope “RS” measurements on the form.
- d) **Grade Breaks** – Provide measurements where shown on the drawings.

## F. Ramp for Sidewalk or Bridge Ends

1. Forms to Record Data:

- End Ramp

### ADA Feature - End Ramp Measurements

Contract / Work Order \_\_\_\_\_ Date Measured \_\_\_\_\_

Measured By \_\_\_\_\_

Cross Street Name \_\_\_\_\_

Plan Sheet Reference \_\_\_\_\_

Feature Location Code \_\_\_\_\_ Jurisdiction \_\_\_\_\_

Site History \_\_\_\_\_ Structured By \_\_\_\_\_

Phase \_\_\_\_\_

SR \_\_\_\_\_

Milepost \_\_\_\_\_

Station \_\_\_\_\_

Latitude \_\_\_\_\_ Longitude \_\_\_\_\_ Accuracy \_\_\_\_\_

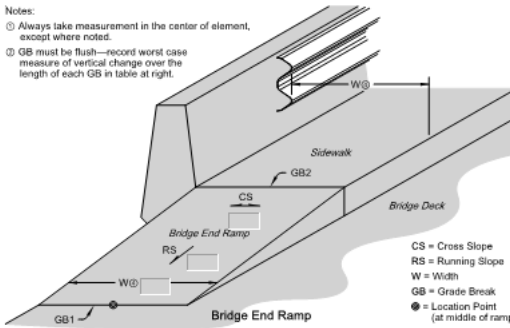
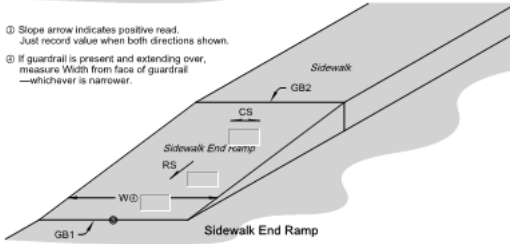
Survey/Feature Status \_\_\_\_\_

EF Status \_\_\_\_\_

MEF Reference \_\_\_\_\_

Notes:

- ① Always take measurement in the center of element, except where noted.
- ② GB must be flush—record worst case measure of vertical change over the length of each GB in table at right.
- ③ Slope arrow indicates positive read. Just record value when both directions shown.
- ④ If guardrail is present and extending over, measure Width from face of guardrail—whichever is narrower.

Enter numbers only  
1 = 1.00%, 2.25 = 2.25 ft, etc.

End Ramp Type	Measurement	Compliance Criteria	MEF Criteria
Ramp	RS	8.30% Max	% Max
	CS	2.00% Max	% Max
	W	4.00 ft Min	ft Min
Grade Breaks (Input - fraction or decimal of an inch)			
GB#1			
GB#2			

2. Data Fields Explanation:

- a) **Location of Ramp** – Select from the drop-down list where the end ramp is located.

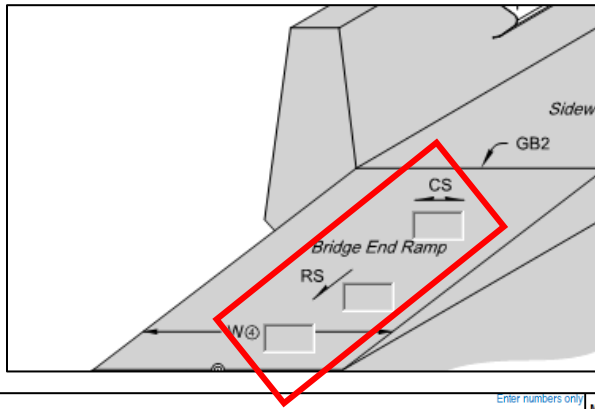
Enter numbers only  
1 = 1.00%, 2.25 = 2.25 ft, etc.

End Ramp Type	Measurement	Compliance Criteria	MEF Criteria
Ramp	Bridge Sidewalk		
RS		8.30% Ma	
CS		2.00% Ma	

End Ramp Type  
Select from list:

1. Bridge
2. Sidewalk

Once the type is selected the data box are unshaded to record the measurement on the drawing or in the form.



Notes:

- ① Always take measurement in the center of element, except where noted.
- ② GB must be flush—record worst case measure of vertical change over the length of each GB in table at right.

③ Slope arrow indicates positive read. Just record value when both directions shown.

④ If guardrail is present and extending over, measure Width from face of guardrail—whichever is narrower.

CS = Cross Slope  
RS = Running Slope  
W = Width  
GB = Grade Break  
Ⓛ = Location Point (at middle of ramp)

Measurement	Compliance Criteria	MEF Criteria
Enter numbers only 1 = 1.00%, 2.25 = 2.25 ft, etc		
End Ramp Type	Bridge	
Ramp		
RS	8.30%	End Ramp Type Select from list: 1. Bridge 2. Sidewalk
CS	2.00% Max	% Max
W	4.00 ft Min	ft Min
Grade Breaks		
GB#1		
GB#2		

- b) **Ramp** – Record measurements for run slope “RS”, cross slope “CS”, and width “W” on the form.
- c) **Grade Breaks** – Provide measurements where shown on the drawings.

**Special Note:**

The diagram does not provide sufficient space for a data box so select the proper Grade Break in the measurement box and a large check will show up on the diagram showing that the measurement was completed.

RS		8.30% Max
CS		2.00% Max
W		4.00 ft Min
Grade Breaks		
FAIL	GB#1	1/2 to 1/4-Inch NO Bevel
PASS	GB#2	1/2 Inch or Less



A. **Pushbutton #1** – two options

			Measurement		
<b>APS Pushbutton</b>			APSButton #1	APSButton #2	APSButton #3
	Button Support Pole				
<b>Distance</b>			Button Support Pole Choose type for APS Button #1: 1. Separate 2. Shared		
	Button to Curb	10 ft Max			
	Button-PassThru	2 ft Max			

B. **Pushbutton #2 & #3** – three options

			Measurement		
<b>APS Pushbutton</b>			APSButton #1	APSButton #2	APSButton #3
	Button Support Pole				
<b>Distance</b>			Button Support Pole Choose type for APS Button #2: 1. Separate 2. Shared 3. NA - NOT Applicable if NOT present - Do NOT enter data into gray shaded cells		
	Button to Curb	10 ft Max			
	Button-PassThru	2 ft Max			
	Button-Landing	2 ft Max			

- If there is no button, select N/A, and the data cells are shaded and no further information is required.

 **Special Note:**

Error messages will occur when combinations do not match:

A. Only one pushbutton provided:

			Measurement		
<b>APS Pushbutton</b>			APSButton #1	APSButton #2	APSButton #3
	Button Support Pole		INVALID - Check Support Pole	Shared	NA
<b>Distance</b>			Button Support Pole Choose type for APS Button #3: 1. Separate 2. Shared 3. NA - NOT Applicable if NOT present - Do NOT enter data into gray shaded cells		
incomplete	Button to Curb	10 ft Max			
incomplete	Button-PassThru	2 ft Max			
incomplete	Button-Landing	2 ft Max			
incomplete	Button-Clr Space	2 ft Max			
	Between Buttons 1-2	If separated, 10 ft Min			
	Between Buttons 2-3	If separated, 10 ft Min			

- I. In the case where there is only One pushbutton present, select “Separate” and select “N/A” for pushbuttons #2 and #3.
- II. Make a note in the NOTES box that there is only one pushbutton.

APS Pushbutton		APSButton #1	APSButton #2	APSButton #3
Button Support Pole		Separate	NA	NA
Distance				

- B. Cannot have a Shared, with a Separate, and N/A. If the pushbutton is shared then both have to be “shared”.

APS Pushbutton		APSButton #1	APSButton #2	APSButton #3
Button Support Pole	INVALID - Check Support Pole	Shared	Separate	NA
Distance				

- C. Cannot have a Shared, with a Separate, and N/A. If the pushbutton is shared then both have to be “shared”.

APS Pushbutton		APSButton #1	APSButton #2	APSButton #3
Button Support Pole	INVALID - Check Support Pole	Separate	Shared	NA
Distance				

(2) **Distance**

Using the pictures on the form, address the following:

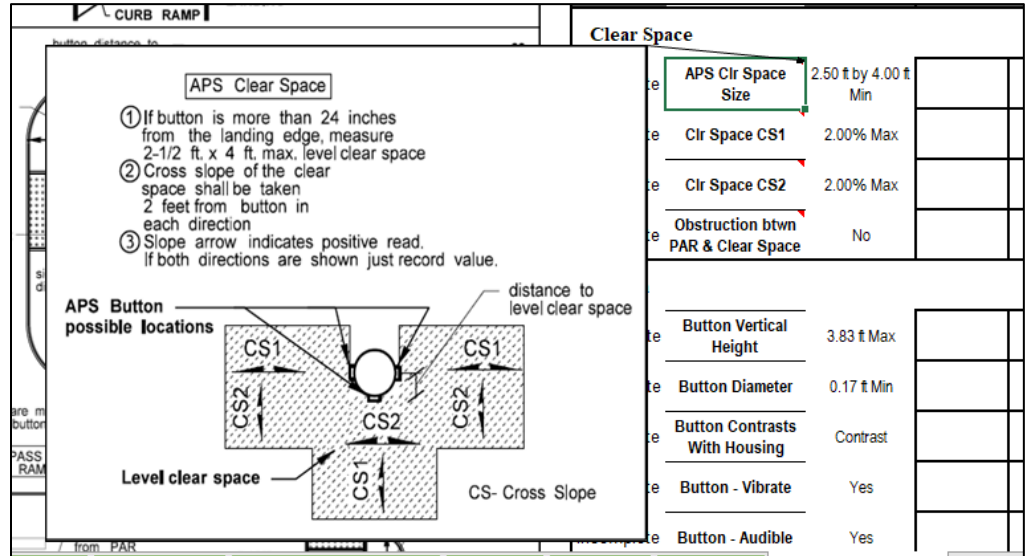
- A. *Button to Curb* – Record the distance from curb to button
- B. *Button-PassThru* – If the button is located in a pass thru island, record the distance; otherwise leave blank.
- C. *Button-Landing* - Distance from landing to button
- D. *Button-Clr Space* - Distance from the button clear space to the button
- E. *Between Buttons 1-2* - If the buttons are separated, record the distance.
- F. *Between Buttons 2-3* - If the buttons are separated, record the distance.
- G. *Between Buttons 3-1* - If the buttons are separated, record the distance.

(3) **Clear Space**

Record the following measurements:

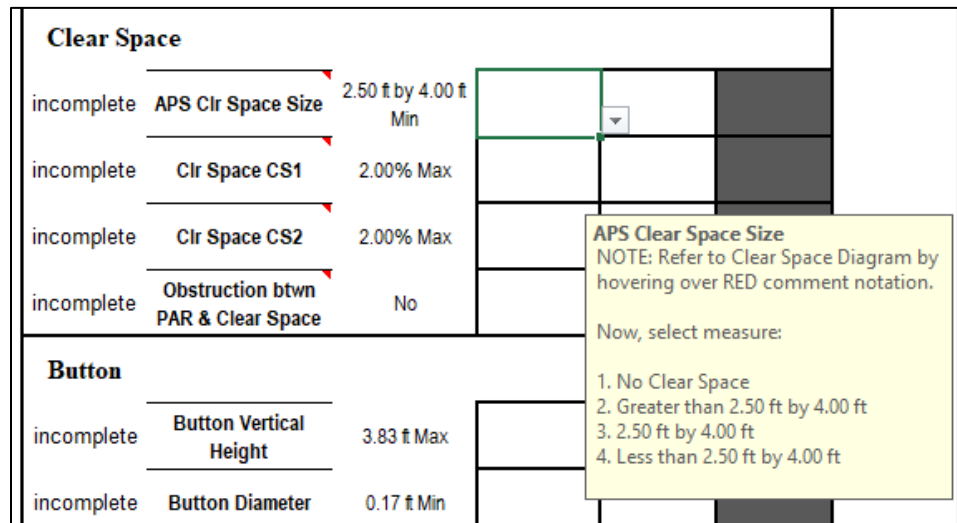
 **Special Note:**

There are additional diagrams for clear space to help with identifying the attribute. A diagram will appear when the mouse pointer is over the cell (or the cell with a red marker in the upper right corner is clicked)



Clear Space			
incomplete	APS Clr Space Size	2.50 ft by 4.00 ft Min	
incomplete	Clr Space CS1	2.00% Max	
incomplete	Clr Space CS2	2.00% Max	
incomplete	Obstruction btwn PAR & Clear Space	No	
<b>Button</b>			
incomplete	Button Vertical Height	3.83 ft Max	
incomplete	Button Diameter	0.17 ft Min	

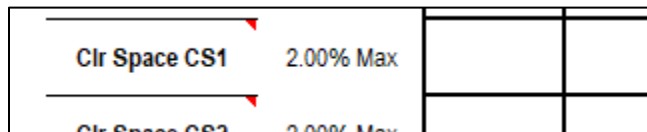
A. APS Clr Space Size – Select from the drop-down list



Clear Space			
incomplete	APS Clr Space Size	2.50 ft by 4.00 ft Min	
incomplete	Clr Space CS1	2.00% Max	
incomplete	Clr Space CS2	2.00% Max	
incomplete	Obstruction btwn PAR & Clear Space	No	
<b>Button</b>			
incomplete	Button Vertical Height	3.83 ft Max	
incomplete	Button Diameter	0.17 ft Min	

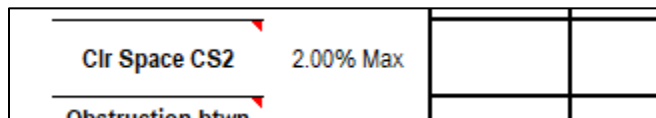
**APS Clear Space Size**  
NOTE: Refer to Clear Space Diagram by hovering over RED comment notation.  
Now, select measure:  
1. No Clear Space  
2. Greater than 2.50 ft by 4.00 ft  
3. 2.50 ft by 4.00 ft  
4. Less than 2.50 ft by 4.00 ft

B. Clr Space CS1 – Record the cross slope CS1



incomplete	Clr Space CS1	2.00% Max	
incomplete	Clr Space CS2	2.00% Max	

C. Clr Space CS2 – Record the cross slope CS2



incomplete	Clr Space CS2	2.00% Max	
incomplete	Obstruction btwn PAR & Clear Space	No	

D. *Obstruction btwn PAR & Clear Space* – Is there an obstruction between the PAR and the clear space that will hinder access? Select from drop-down.

Obstruction btwn PAR & Clear Space	No			
		Yes No		
Button Vertical Height	4.00 ft Max	Obstruct Betwn PAR & Clear Space Pick from drop-down list.		

(4) **Button**

Using the pictures on the form, address the following:

- A. *Button Vertical Height* - Record the measured distance between the surface of the sidewalk to the center of the button.
- B. *Button Diameter* – Record the diameter of the button

Button Vertical Height			
Button Diameter	0.17 ft Min		

C. *Button Contrasts With Housing* – Select response from the drop-down list.

pass	Button Contrasts With Housing	Contrast	Yes	Yes		
pass	Button - Vibrate	Yes	Yes	Button Contrasts with Housing Pick from drop-down list.		
pass	Button - Audible	Yes	Voice	Beep		

D. *Button – Vibrate* – Select response from the drop-down list

pass	Button - Vibrate	Yes	Yes	Yes		
pass	Button - Audible	Yes	Voice	Button Vibrate Pick from drop-down list.		
pass	Arrow Parallel to Crosswalk	Yes	Yes			
	Button Arrow					

E. *Button – Audible* – Select response from the drop-down list

pass	Button - Audible	Yes	Voice	Beep		
pass	Arrow Parallel to Crosswalk	Yes	Beep	Voice	Audible	
pass	Button Arrow Contrast	Yes	Yes	None		
	Buttton Arrow					

F. *Arrow Parallel to Crosswalk* – Select response from the drop-down list.

pass	Arrow Parallel to Crosswalk	Yes	Yes	Yes	
pass	Button Arrow Contrast	Yes	Yes		
pass	Button Arrow Tactile	Yes	Yes	Yes	

Arrow Parallel to Crosswalk  
Pick from drop-down list.

G. *Button Arrow Contrast* – Select response from the drop-down list.

pass	Button Arrow Contrast	Yes	Yes	Yes	
pass	Button Arrow Tactile	Yes	Yes		
Sign					

Button Arrow Contrast  
Pick from drop-down list.

H. *Button Arrow Tactile* – Select response from the drop-down list.

pass	Button Arrow Tactile	Yes	Yes	Yes	
Sign			Yes	No	
Sign on Housing		Yes	Yes	Yes	

Button Arrow Tactile  
Pick from drop-down list.

(5) **Sign**

The information in this section is **INFORMATIONAL ONLY**.

A. *Sign on Housing* – Select response from the drop-down list.

pass	Sign on Housing	Yes	Yes	Yes	
pass	Sign - Street Name	Yes	No-Separate Sign	Yes	
pass	Sign - St Name Braille	Yes	Yes		

Sign on Housing  
Pick from drop-down list.

B. *Sign - Street Name* - Select response from the drop-down list.

pass	Sign - Street Name	Yes	Yes	Yes	
pass	Sign - St Name Braille	Yes	Yes	No	
pass	Sign - St Name Parallel to Crw	Yes	Yes		
Sign - St Name					

Sign - Street Name  
Pick from drop-down list.



C. *Sign - St Name Braille* - Select response from the drop-down list.

pass	Sign - St Name Braille	Yes	Yes	Yes	
pass	Sign - St Name Parallel to Crw	Yes	Yes	Yes	
	Sign - St Name				

D. *Sign - St Name Parallel to Crw* - Select response from the drop-down list.

pass	Sign - St Name Parallel to Crw	Yes	Yes	Yes	
pass	Sign - St Name Audio	Yes	Yes	Yes	
	Sign - St Name				

E. *Sign - St Name Audio* - Select response from the drop-down list.

pass	Sign - St Name Audio	Yes	Yes	Yes	
	Arrow on Sign		Yes	Yes	
	Sign - St Name				

F. *Arrow on Sign* - Select response from the drop-down list.

	Arrow on Sign		Yes	Yes	
	Sign - St Name Vibro		Yes	Yes	
	Sign - St Name				

G. *Sign - St Name Vibro* – Is the street name vibrotactile? Select response from the drop-down list.

	Sign - St Name Vibro		Yes	Yes	
	Sign - St Name				

b) *APS Display/Signal*

Depending on the location, there may be three signals that information is needed. Using the picture on the form, determine the pole number orientation.

(1) **Signal Support Pole**

For each signal, identify whether the signal is located on a separate pole or shared (co-located) on a single pole.

APS Display/Signal			APSSignal #1	APSSignal #2	APSSignal #3
Signal Support Pole			Shared	Shared	Shared
<b>Distance</b>					
	Between Signals 1-2	If separated, 10 ft Min			<b>Signal Support Pole</b> Choose type for APS Signal #3: 1. Separate 2. Shared 3. NA - NOT Applicable if NOT present - Do NOT enter data into gray shaded cells
	Between Signals 2-3	If separated, 10 ft Min			
	Between Signals 3-1	If separated, 10 ft Min			
<b>Display/Signal</b>					

(a) In the case where there is only One display/signal present select "Separate" and select "N/A" for display/signals #2 and #3.

(b) Make a note in the NOTES box that there is only one display/signal.

APS Display/Signal			APSSignal #1	APSSignal #2	APSSignal #3
Signal Support Pole			Separate	NA	NA
<b>Distance</b>					
	Between Signals 1-2	If separated, 10 ft Min			<b>Signal Support Pole</b> Choose type for APS Signal #1: 1. Separate 2. Shared
	Between Signals 2-3	If separated, 10 ft Min			
	Between Signals 3-1	If separated, 10 ft Min			

(2) **Distance**

Using the pictures on the form, record the following measurements:

 **Special Note:**

(a) If the signal is on the same pole "Shared", then no measurement is needed. The measurement boxes are shaded.

APS Display/Signal			APSSignal #1	APSSignal #2	APSSignal #3
Signal Support Pole			Shared	Shared	NA
<b>Distance</b>					
	Between Signals 1-2	If separated, 10 ft Min			
	Between Signals 2-3	If separated, 10 ft Min			
	Between Signals 3-1	If separated, 10 ft Min			

(b) If the signal are on "Separate" poles, then measurements are required. Record the measurements.

APS Display/Signal		APSSignal #1	APSSignal #2	APSSignal #3
	Signal Support Pole	Separate	Separate	Separate
<b>Distance</b>				
	Between Signals 1-2	If separated, 10 ft Min		
	Between Signals 2-3	If separated, 10 ft Min		
	Between Signals 3-1	If separated, 10 ft Min		

(3) Display/Signal

(a) Signal Type - Select from the drop-down list

Display/Signal				
	Signal Type			
incomplete	Signal Height	7 ft Min		
incomplete	Signal Audible Walk	Yes		
	Signal Audible Type			

**Signal Type**  
NOTE: Refer to Signal Type Diagram by hovering over RED comment notation.

Now, select signal type:

1. Countdown
2. Signal-Other
3. Symbol
4. Symbol AND Countdown
5. Symbol AND Word
6. Word

(b) Signal Height – Record the measurement from the sidewalk surface to the bottom of the display/signal box.

incomplete	Signal Height	7 ft Min	7.2	
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(c) Signal Audible Walk – Identify if the signal has an audible walk message. Select from the drop-down list

Display/Signal			Countdown	Cou
incomplete	Signal Height	7 ft Min	7	
pass	Signal Audible Walk	Yes	Yes	
	Signal Audible Type		Yes	
			No	

A. *Signal Audible Type* – Identify if the type of audible walk message. Select from the drop-down list

pass	Signal Audible Walk	Yes	Yes	Y
	Signal Audible Type		Tone	▼
			Speech	
			Tone	
			Other	

▪ **1510.12(1) ° Accessibility Criteria for All Pedestrian Pushbuttons (including APS)**

▪ **1510.12(1)(a) ° Location Requirements**

↔ See [1330.04\(4\)](#) for pushbutton location requirements. These location requirements limit the potential locations for the pedestrian pushbutton clear space. ¶

▪ **1510.12(1)(b) ° Clear Space Requirements**

↔ Grade: 2% maximum running and cross slopes. ¶

↔ Clear space dimensions: ¶

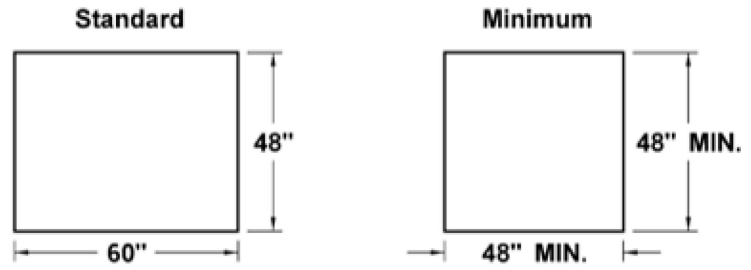
a. → Standard: 48 inches in width by 60 inches in length, with the pushbutton located along one of the long sides of the clear space. ¶

b. → Minimum: 48 inches minimum width by 48 inches minimum length. Although the ADA minimum required clear space for an operational control is 30 inches by 48 inches, the narrow dimension is increased to 48 inches to allow for maneuvering, similar to a curb ramp landing (see [Exhibit 1510-23](#)). If the clear space is constrained on three sides, such that the clear space is set back 15 inches or more from the PAR, then the clear space shall be 48 inches minimum width by 60 inches minimum length, to allow for maneuvering within the constrained space. (see [Exhibit 1510-23](#)). ¶

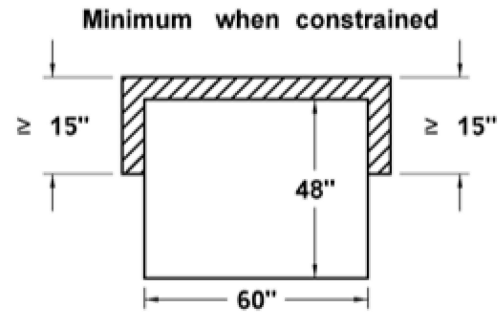
↔ Additional unobstructed or traversable space of 12 inches on either end of the clear space should be provided if possible, to allow for protruding equipment such as foot rests to extend beyond the clear space. This helps mobility assistance device users get their shoulder line closer to the pushbutton (see [Exhibit 1510-23](#)). ¶

↔ Clear space is allowed to overlap other PAR elements (i.e., sidewalk/curb ramp landing) (see [Exhibits 1510-24a and 1510-24b](#)). ¶

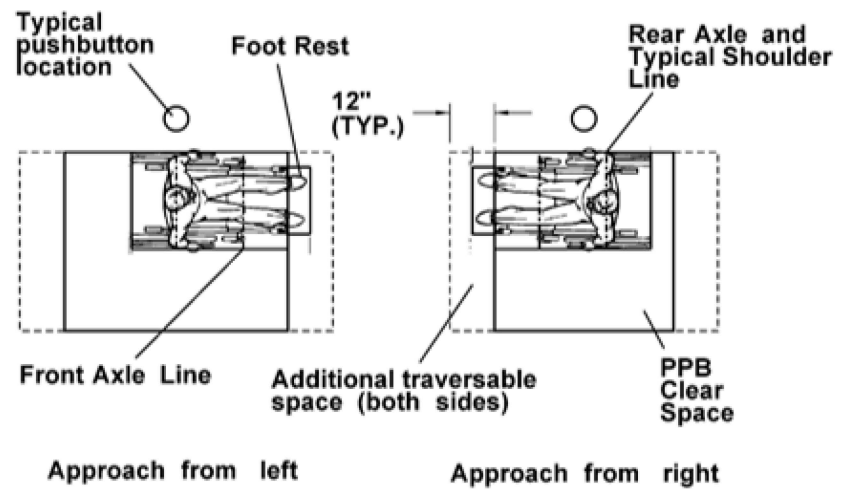
↔ Clear space must be connected to the crosswalk served by the pedestrian pushbutton with a PAR. ¶



**Basic Clear Space**

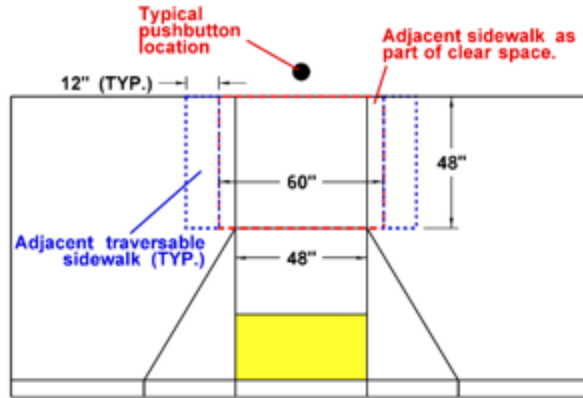


**Additional Traversable Space**

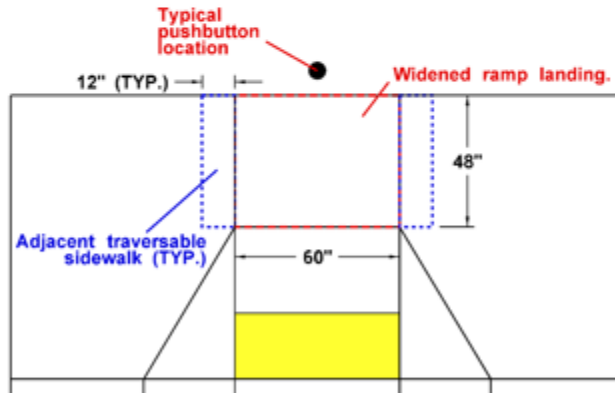


Clear Space for Pedestrian Pushbutton  
 Exhibit 1510-23

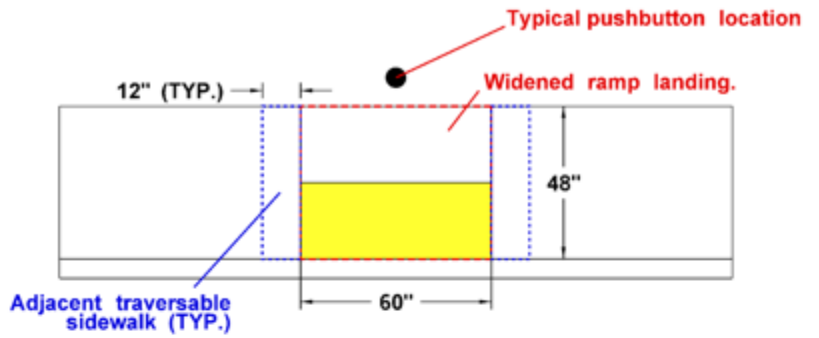
Perpendicular Ramp Option:  
Use Adjacent Level Sidewalk  
(Not to scale)



Perpendicular Ramp Option:  
Widen Ramp and Landing  
(Not to scale)

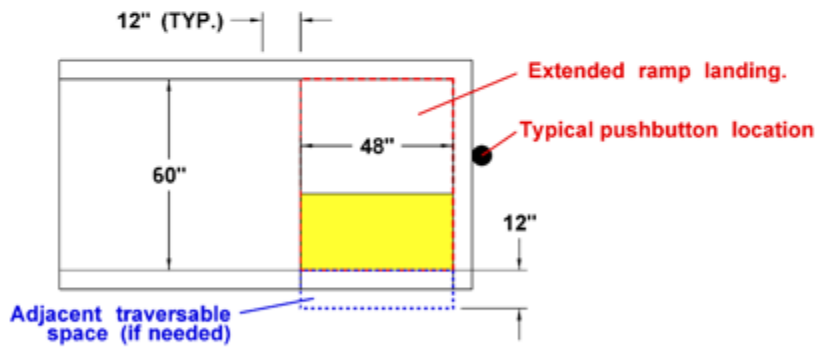


Perpendicular Ramp Concurrent Clear Space Examples  
Exhibit 1510-24a



↓ Crosswalk Direction

Parallel Ramp Mid-Sidewalk Option: Widen Ramp Landing to 60"



↓ Crosswalk Direction

Parallel Ramp End of Sidewalk Option: Extend Ramp Landing to 60"

Parallel-Ramp-Concurrent-Clear-Space-Examples¶

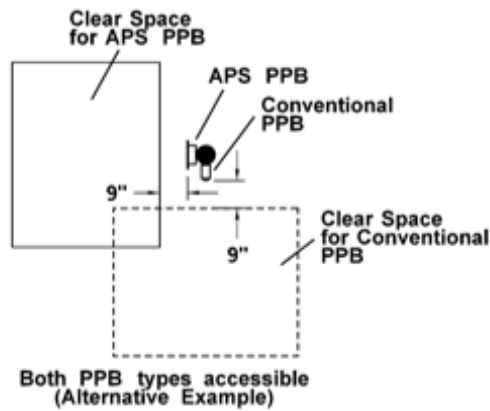
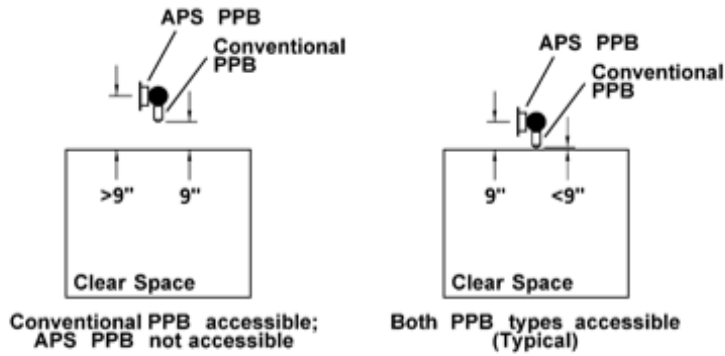
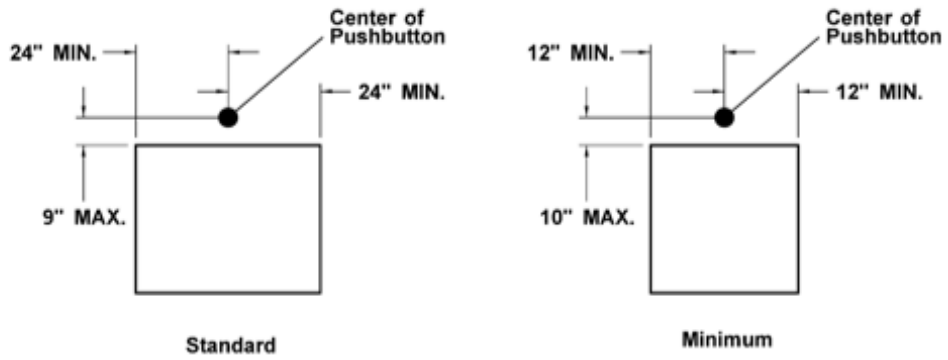
Exhibit-1510-24b¶

#### • 1510.12(1)(c) ° Reach-Range-Requirements ¶

Pushbuttons are in locations considered unobstructed, and follow the allowable unobstructed reach distance requirements of the ADA accessibility requirements. This manual designs clear space for pushbuttons based on a parallel approach, due to difficulties in both accessibility and design when attempting to accommodate a forward reach. ¶

- The provided clear space must be within reach range of the pedestrian pushbutton. ¶
- The reach range is 10 inches maximum, as measured from the edge of the clear space to the center of the physical pushbutton (not just the housing). ¶
- For new construction, the center of the physical pushbutton shall be no more than 9 inches from the edge of the clear space. It is preferable to locate the pushbutton as close to the edge of the clear space as possible. ¶
- Different types of pushbuttons (front mount H-frame type versus side mount Accessible Pedestrian Signal type) will have different reach ranges on the same pole. Generally, designing for a side mount pushbutton will result in a front mount pushbutton also being within the required reach range. This is generally not true the other way around. (see [Exhibit 1510-25](#)) ¶
- The center of the physical pushbutton shall be 42 inches above the surface of the clear space. Existing installations may remain if they are within a range of 36 inches minimum to 48 inches maximum above the surface of the clear space. ¶
- The pushbutton shall be a minimum of 12 inches in from both ends of the clear space, and should be at least 24 inches in from both ends of the clear space. Ideally, the pushbutton should be centered along one side of the clear space. If the clear space is rectangular, the pushbutton shall be located along one of the long sides of the clear space. ¶





NOTE: See Exhibits 1330-14a and 1330-14b for pole setback limits

Reach Range for Pedestrian Pushbuttons  
 Exhibit 1510-25

## **V. Transmitting Collected Data to the Region ADA Liaison**

After completing the feature measurements, submit the completed electronic Excel forms to the Regional ADA Liaison. The Region Liaison will review and then transmit the completed forms to the WSDOT ADA Data Steward for processing.

Include the following information in the transmittal:

1. Work Order number
2. PIN or WIN number
3. Date Measurements Completed
4. Name of Individual who completed the Measurement forms