

Notes to the Designer

Updated April 2023

4R Typical Section Sheets

General Information

- All graphics and text will be in the design model. Only use the sheet model for printing and adding applicable guardrail as a reference; Reference guardrail using the appropriate saved view from the design model to the appropriate sheet model.
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- Length of Project and Curve Widening tables are intergrated into the sheet. Double click on the cell to edit.
- **Note 5 on the plan sheet.** Note 5 shown on the plan sheet applies to simple curves only. If you use spiral curve transitions, adjust Note 5 to include the following:

Construct curve widening as shown in the table below. For simple curves, apply the widening on the inside of curves throughout the superelevated sections. For spiral curves, apply one half of widening to each side of centerline. Transition the curve widening to coincide with the superelevation transitions.
- **Road Inventory Program Milepost data.** The NPS uses the Road Inventory Program (RIP) as part of their asset management program. Include the RIP milepost data in the 'Length of Project' table for NPS projects only. To find this information, use VisiData (see the VisiData Route_GPS Workspace to see mileposts and GPS longitude and latitude) or ask Planning and Programming. Delete the last column in the 'Length of Project' table for all non-NPS projects (e.g. USFS, USFWS, IRR, etc).
- **Cut Slope Rounding.** Refer to the PDDM Subsections 9.5.1.1 and 9.5.2.3.3 for more information on clearing widths and cut slope rounding widths. For a default value, use B=5' and F=5'.

Applicable SCRs

- Varies

Typical Pay Item Used

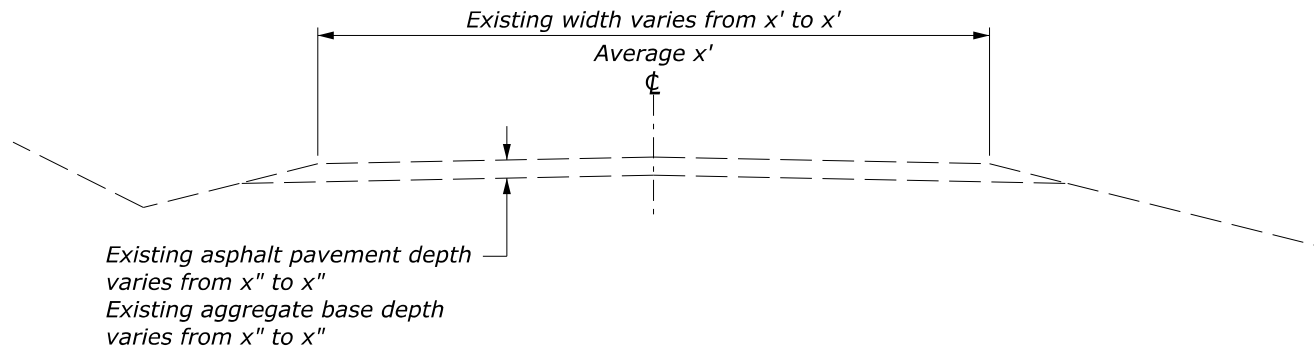
- Varies

Updates

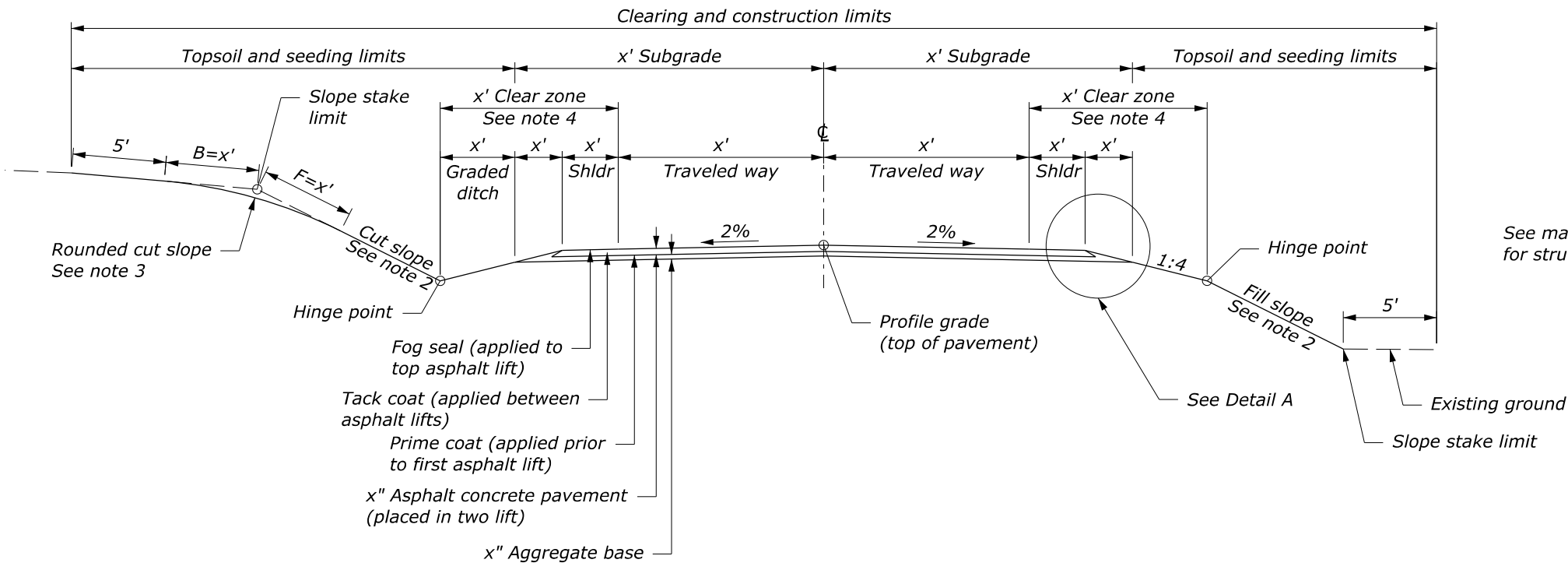
- **April 2021**
 - Added guardrail typical sections
 - Updated for OpenRoads Designer
- **November 2022**
 - Updated border
- **April 2023**
 - Updated safety edge detail; updated border; updated to international seed file

K:\CADD_Coordinator\ORD Drawings\Templates - 10.10 version\Updated\4B_typical.dgn [Typical Section Mainline] 25 October 2023 9:19 AM

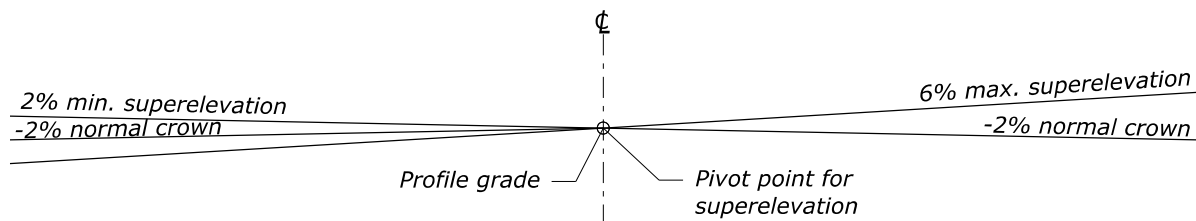
PROJECT	XXX
PROJECT NUMBER	XXXX
PROJECT NAME	Typical



EXISTING TYPICAL SECTION
<<>> to <<>>



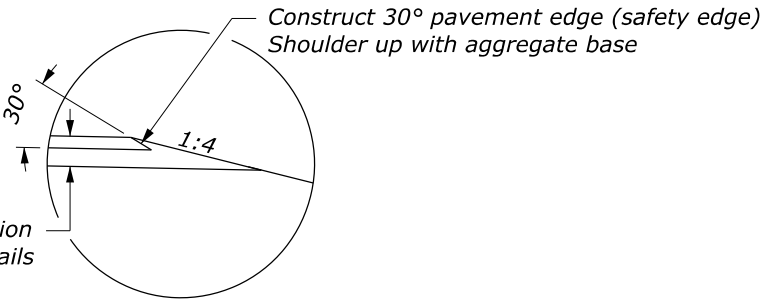
TYPICAL SECTION
<<>> to <<>>



METHOD OF SUPERELEVATION ON CURVES
See plans for locations of curves and superelevations

Note:

1. The gradient and width of the roadway ditches and the excavation and embankment slope ratios may be adjusted to ensure adequate drainage and stability.
2. See cross sections for cut and fill slope ratios.
3. Round all earth slopes and all rippable rock slopes. For cut heights less than B, reduce the B and F dimensions to the actual cut height.
4. Clear zone width varies on the outside of curves according to the AASHTO Roadside Design Guide.
5. Construct curve widening as shown in the table below. Apply the widening on the inside of the curves throughout the superelevated sections. Transition the curve widening to coincide with the superelevation transitions.



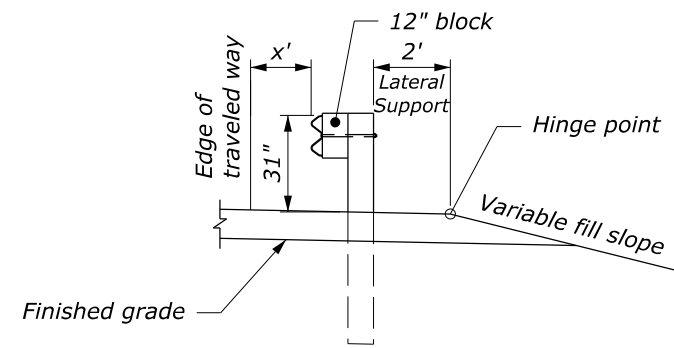
DETAIL A
(applies to both sides of roadway)

WIDENING ON CURVES (see note 5)	
Radius (ft)	Widening (ft)
Over ??	
?? to ??	
?? to ??	
?? and under	

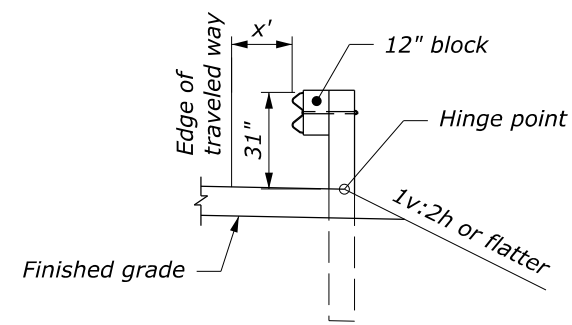
LENGTH OF PROJECT			
Station to Station	Roadway (ft)	Bridge (ft)	Road Inventory Program Milepost Data (Cycle #)*
??+?? to ??+??			
??+?? to ??+??			
??+?? to ??+??			
TOTALS (ft)			
TOTALS (mi)			

*Road Inventory Program data shown for information only

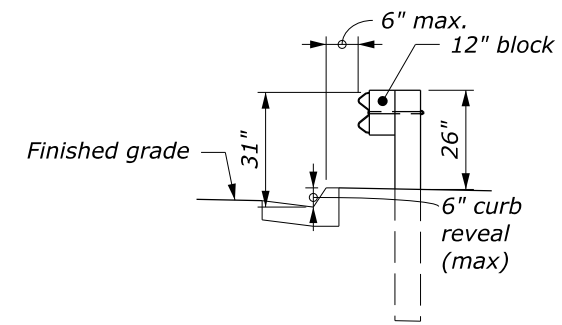
TYPICAL SECTION MAINLINE



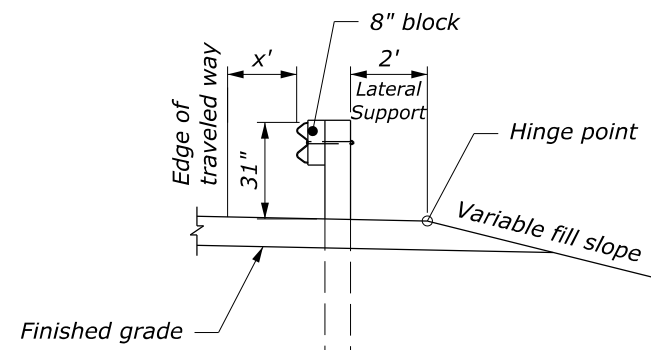
**MGS GUARDRAIL
TYPICAL SECTION**



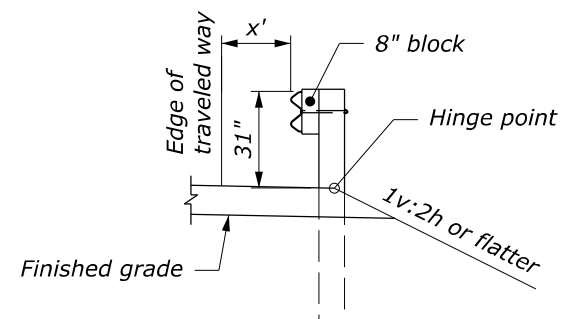
**MGS GUARDRAIL
TYPICAL SECTION**



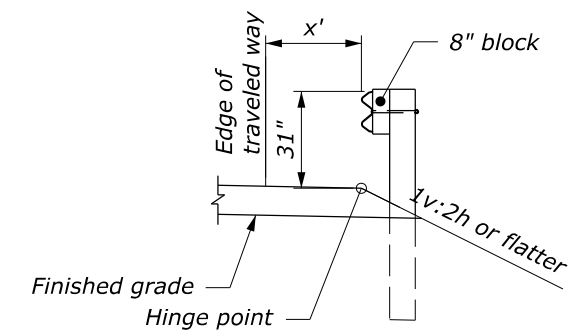
**MGS GUARDRAIL
TYPICAL SECTION**



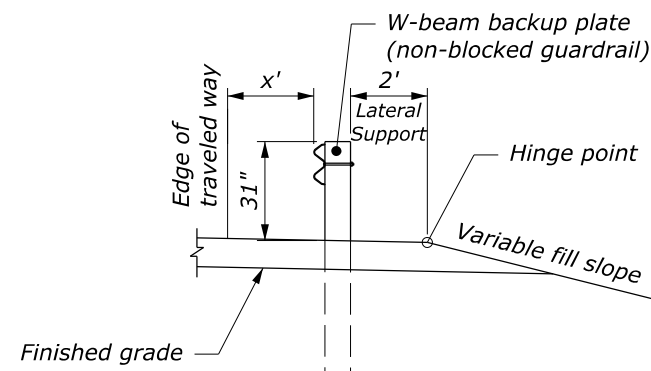
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TYPICAL SECTION**



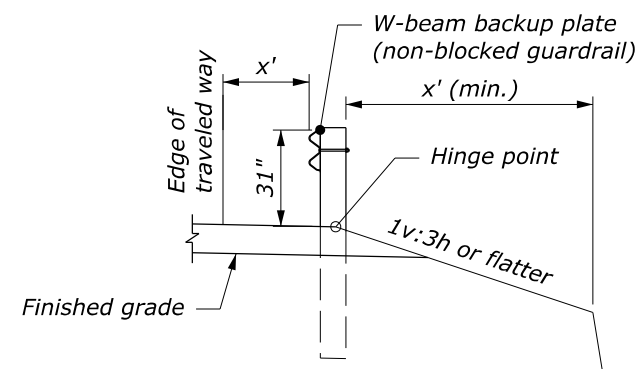
**MGS GUARDRAIL
TYPICAL SECTION**



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