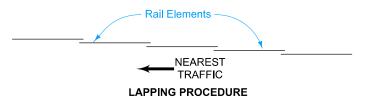
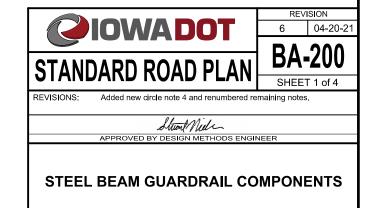
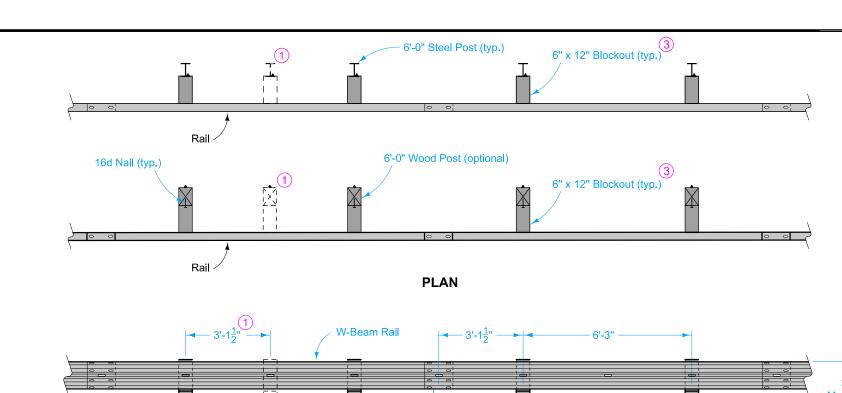
## **DESIGNER INFORMATION** At Bridge End Drains, cut Scour Protection (Transition Mat and Turf Reinforcement Mat) or remove rock as required to place post(s) such that Bridge End Drains abut post(s).

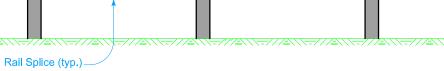
- 1) When specified by the contract documents, install posts at 3'- $1\frac{1}{2}$ " spacing.
- 2 6" maximum for 6" Standard or 6" Sloped curbs and for non-standard curbs.
- 3 Wood or composite only. Steel blockouts will not be



Possible Contract Item: Steel Beam Guardrail

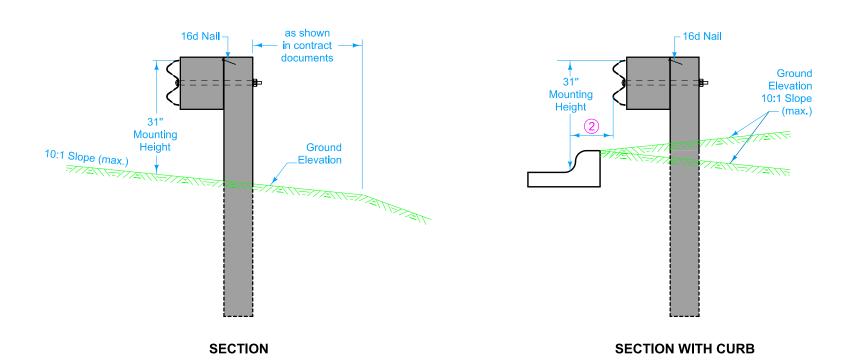




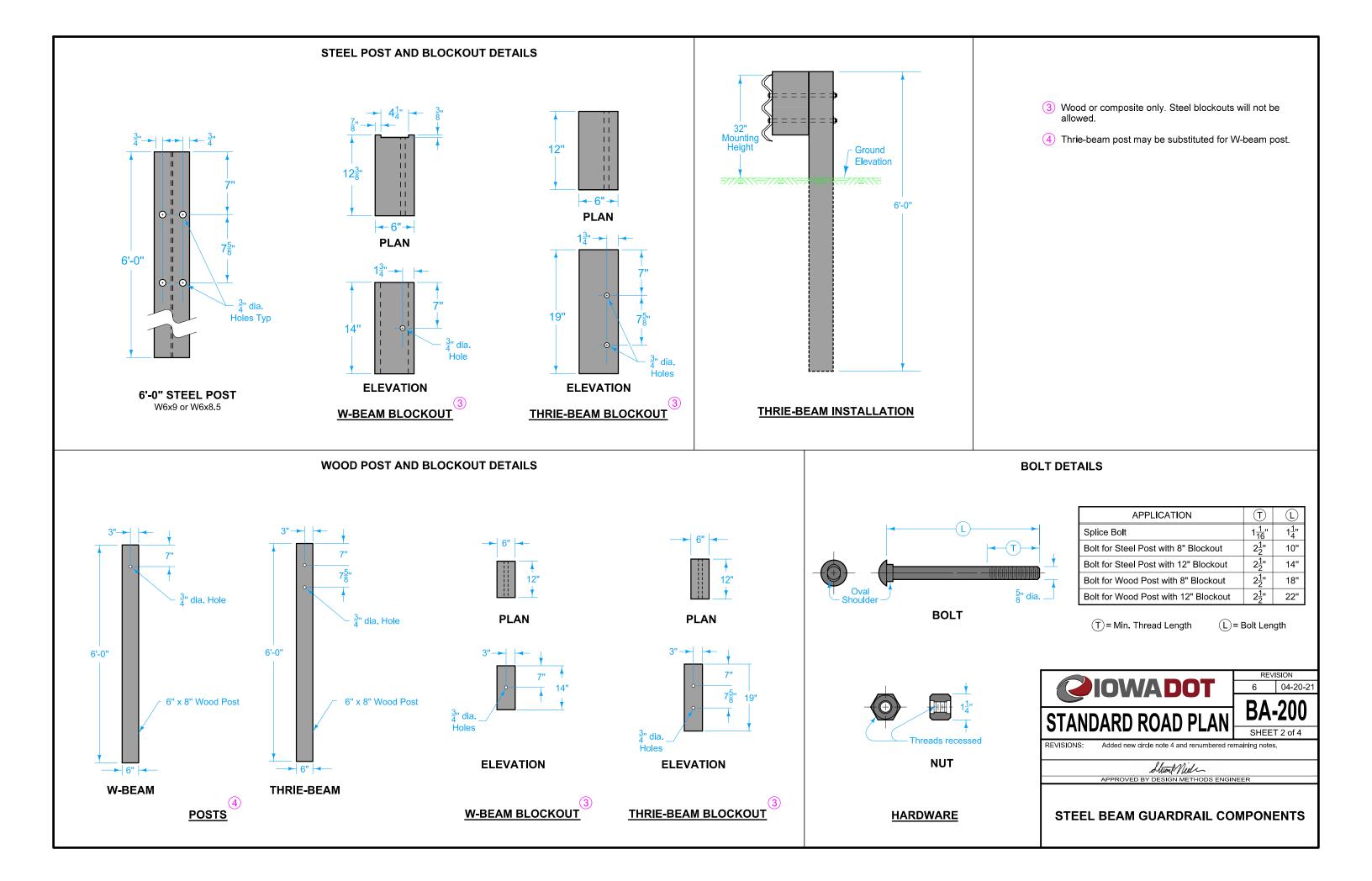


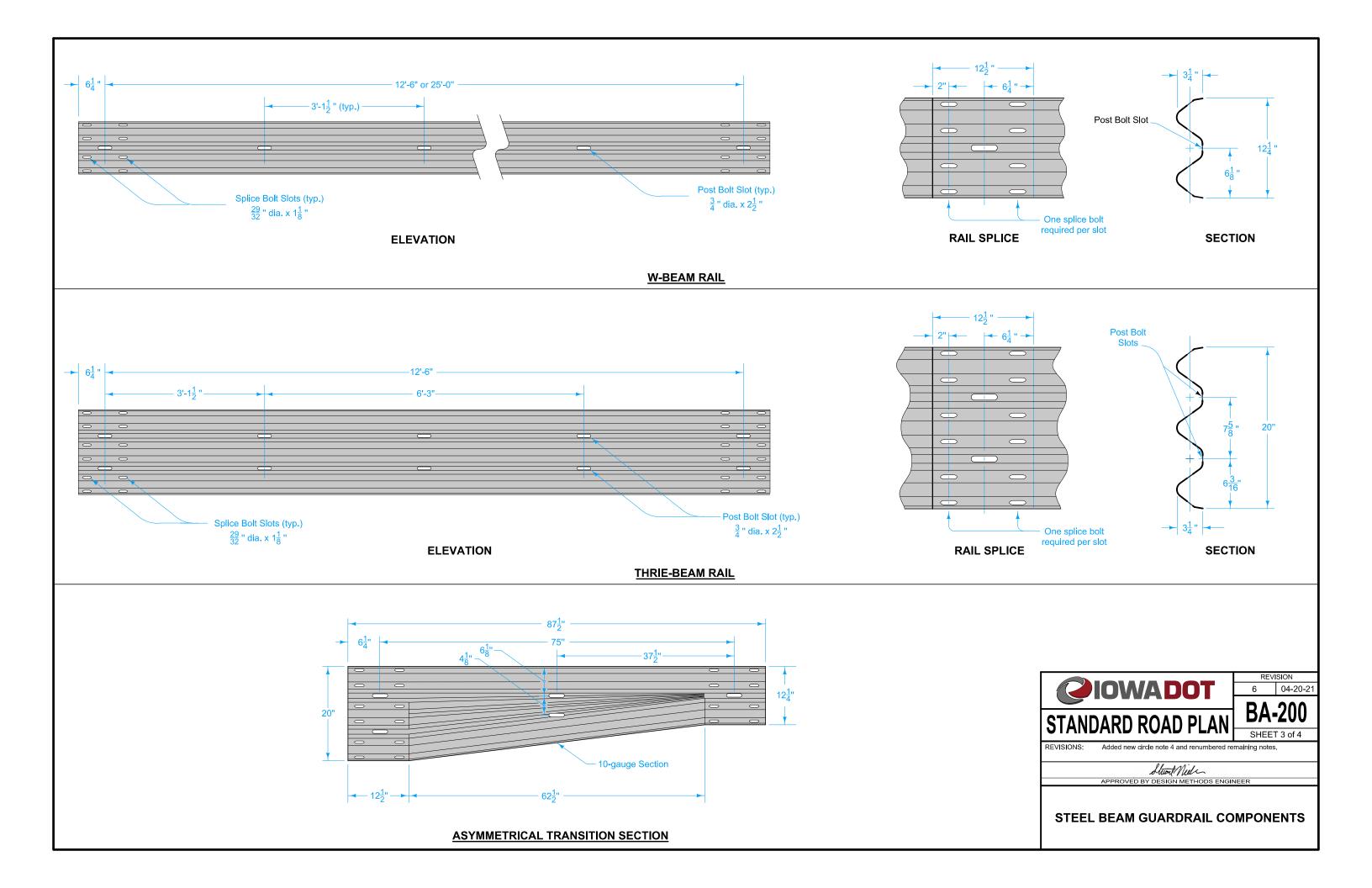
## **ELEVATION**

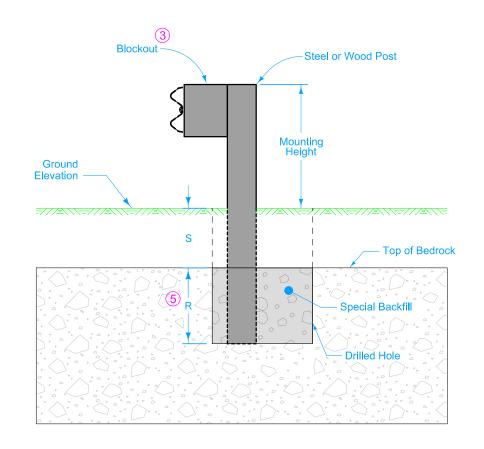
**Ground Elevation** 

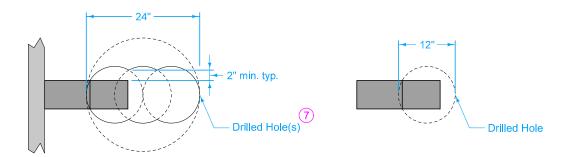


**W-BEAM INSTALLATION** 







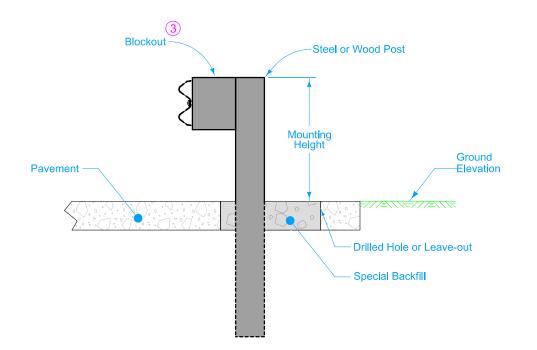


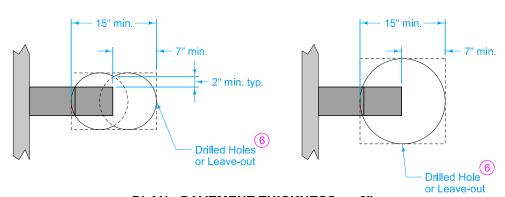
**PLAN - CASE A** 

PLAN - CASE B

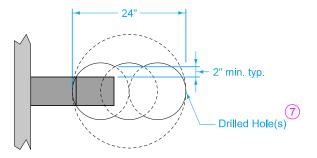
	Post Embedment 5		
L	Case	Depth to Bedrock	Minimum Depth to Drill into Bedrock
	Α	S = 0" to 16"	R = 24"
	В	S = 16" to 52"	R = Post Length - Mounting Height - S

## POST INSTALLED IN BEDROCK





PLAN - PAVEMENT THICKNESS <= 8"
Either approach is acceptable.

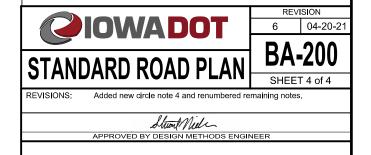


PLAN - PAVEMENT THICKNESS > 8"

POST INSTALLED IN PAVEMENT

Installation information applies to both wood and steel posts.

- Wood or composite only. Steel blockouts will not be allowed.
- Post extends to bottom of hole in all cases. Trim top of post as required and treat with preservative according to Section 4161 of the Standard Specifications.
- 6 Use a 12 inch bit with two drills or a 15 inch bit with one drill. If placing post before paving, provide required leave-out area. If placing post after paving, drill or cut required area. Leave-out may be round or square.
- Use a 12 inch bit with three drills or a 24 inch bit with one drill



STEEL BEAM GUARDRAIL COMPONENTS