AWS D1.1 Interpretation

Subject: Corner Radii
Code Edition: D1.1-85
Code Provision: Subsections 3.2.4, 3.12.1
AWS Log: D1-85-020

Inquiry:
(1) Is it the intent of 3.2.4 that the intersections of built-up plate girders shall have filleted corners of no less than ¾-in. radius in bridge construction and in building construction?
(2) Is it the fabricator’s obligation to build-up such radii in weld metal in which such transitions have not been created in the base metal?
(3) Is it the intent of 3.12.1 that the ends of welds not create a sharp cornered “stress riser” condition?

Response:
(1) No.
(2) No.
(3) Yes. 3.12.1 covers termination of welds to ensure sound welds.