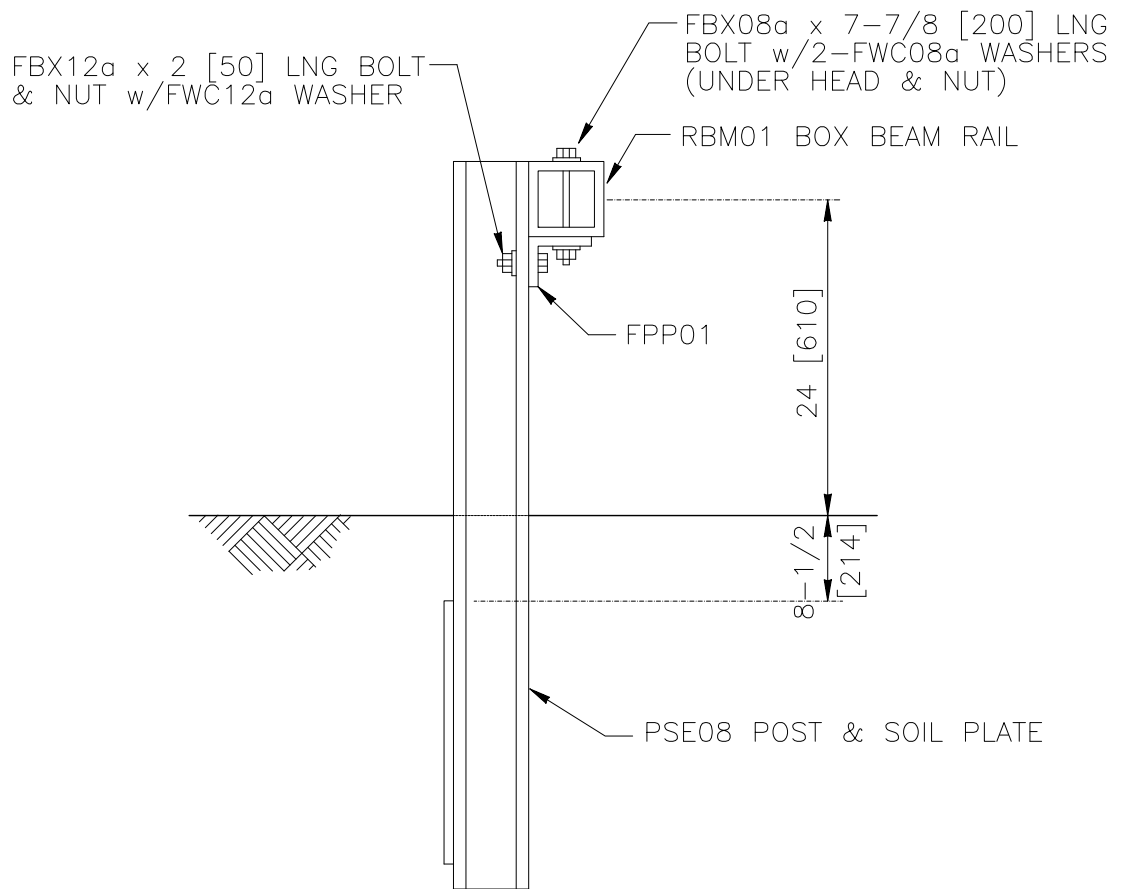


ELEVATION



WEAK-POST BOX-BEAM GUARDRAIL



SGR03

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### INTENDED USE

Weak-post box-beam guardrails are commonly used where dynamic deflections of at least 59 inches [1500 mm] are acceptable. This system must be anchored with a suitable terminal system. SGR-03 is a Test Level 3 barrier.

### COMPONENTS

Unit length = 216 inches [5490 mm]

Designator	Component	Number
FBX08a	Hex-bolt (7-7/8 [200]) and nut	3
FBX12a	Hex-bolt (2 [50]) and nut	3
FBX20b	Hex-bolt (2 [50]) and nut	8
FPP01	Shelf bracket	3
FWC08a	Washer	6
FWC12a	Washer	3
FWC20b	Washer	8
PSE08	Post and soil plate	3
RBM01	Box-beam rail	1
RBS01	Splice plate	2

### APPROVALS

FHWA Acceptance Letter B-64.

### REFERENCES

K.K. Mak, R.P. Bligh, and W.L. Menges, *Testing of State Roadside Safety Systems, Volume XI, Appendix J: Crash Testing and Evaluation of Existing Guardrail Systems*, Report No. FHWA-RD-98-046, Federal Highway Administration, 1990.

M.E. Bronstad, J.E. Michie, and J.D. Mayer, Jr., *Performance of Longitudinal Traffic Barriers*, National Cooperative Highway Research Program Report Number 289, Transportation Research Board, 1987.

J.D. Michie and M.E. Bronstad, *Location, Selection, and Maintenance of Highway Traffic Barriers*, National Cooperative Highway Research Program Report Number 118, Highway Research Board, 1971.

### CONTACT INFORMATION

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## WEAK-POST BOX-BEAM GUARDRAIL

# SGR03

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8/10/05

