VERTICAL CLEARANCE PERMITTING

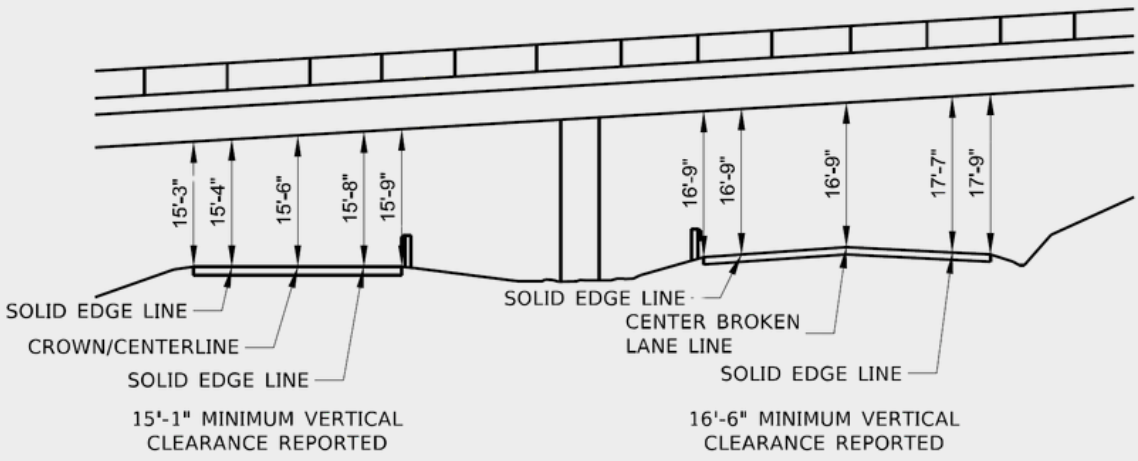
(Intended Audience: ITD Operations Staff)

Vertical clearances for bridges must be re-measured and validated within 30 days from completion of construction/maintenance projects that may change or alter the vertical clearance.

For all structures, measure the vertical clearance from each left yellow edge line, center broken white and yellow lines, right solid white line, and any other solid lines in both directions. The permitted height for all vertical restrictions will be the lowest measured height minus three (3) inches.

EXAMPLE OF BRIDGE MEASUREMENT LOCATIONS

(See ITD Operations Manual for more examples)

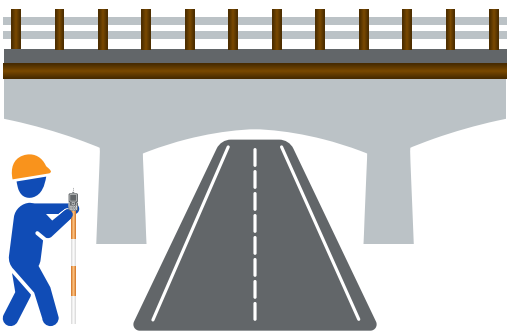


A FIBERGLASS LEVELING ROD AND DISTANCE METER CAN BE USED TO MEASURE BRIDGE CLEARANCE.

To measure the height of the bridge using a distance meter:

1. Set your distance meter to measure in units of feet and inches. Set the measurement reference point to measure from the bottom of the meter.
2. Place the bottom of the rod on the ground at the location you are measuring.
3. Place the bottom of the distance meter on top of the rod and hold the rod and meter plumb.
4. Take a measurement.
5. Add the measurement displayed on the distance meter to the four foot measurement of the rod.
6. Record the measurement to the nearest inch in the bridge measurement form.

Report updated bridge measurements to the DMV. If recorded measurement is less than the clearance posted on the existing low clearance sign or if the measurement is less than 16 feet and a low clearance sign doesn't already exist, fill out the Bridge Low Clearance Signing Plan Form and submit to ITD Bridge.







Example of step 1 above

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BRIDGE MEASUREMENT TABLE

Maintenance Area	
Bridge Key	
Route Carried by Bridge	
Route Under Bridge	
Milepost	
Direction	

Measurement Location	Actual Vertical Clearance (AVC) (Lowest of Two Lane Line Measurements)
Edge of Pavement 1	
Lane 1	
Lane 2	
Lane 3	
Lane 4	
Edge of Pavement 2	
Lowest Measured Height	
Permitted Height (Lowest Measured Height - 3")	
Current Bridge Posting	
Is Lowest Measured Height Lower than Posting? *(*If Yes, Contact Bridge Section. See Idaho Management of Bridge Low Clearance Signs.)*	

***ITD Bridge Contacts:** Patty.Fish@itd.idaho.gov, Seth.Crawford@itd.idaho.gov*

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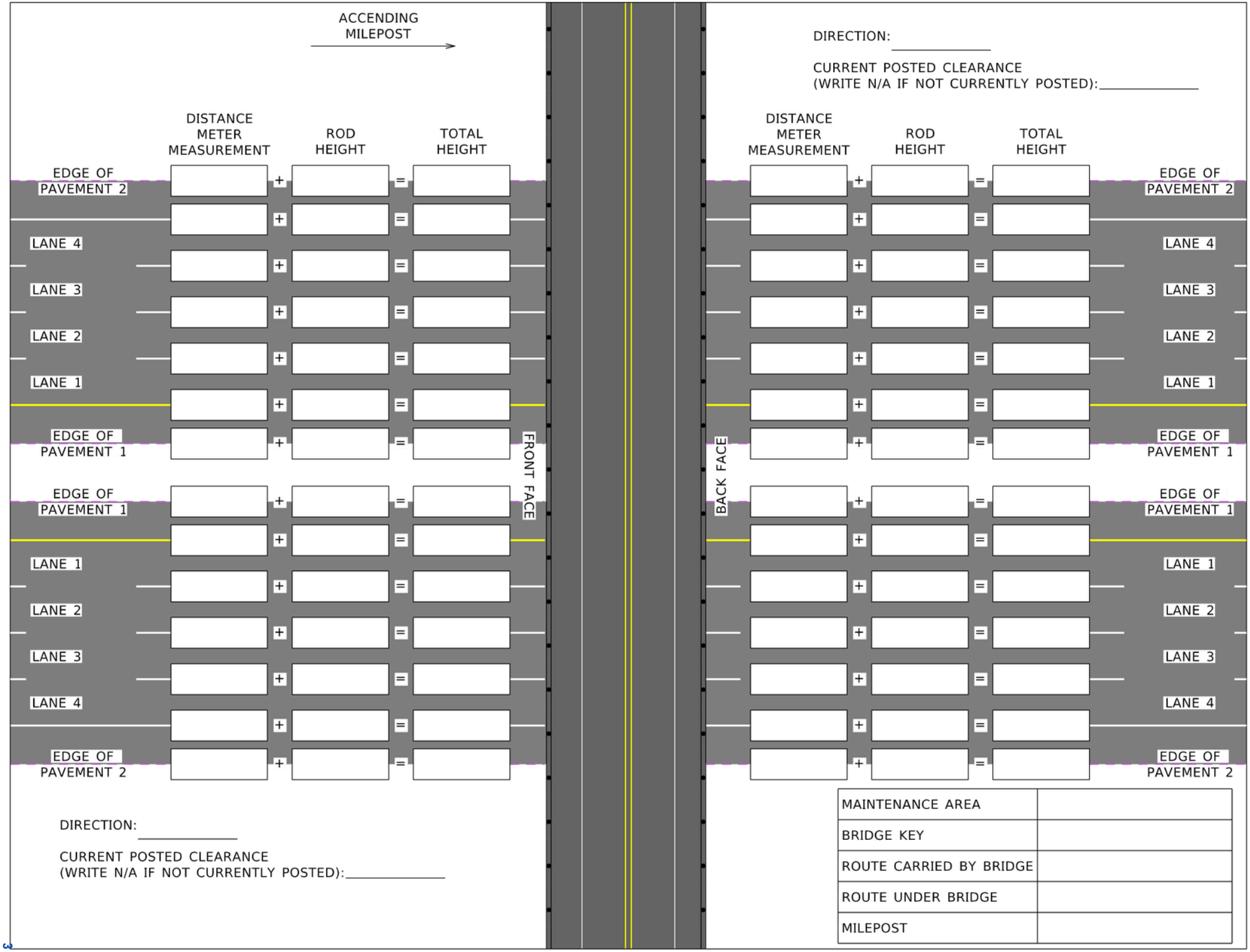
ACCENDING MILEPOST
DISTANCE METER MEASUREMENT
ROD HEIGHT
TOTAL HEIGHT
EDGE OF PAVEMENT 2
LANE 4
LANE 3
LANE 2
LANE 1
EDGE OF PAVEMENT 1
FRONT FACE
EDGE OF PAVEMENT 1
LANE 1
LANE 2
LANE 3
LANE 4
EDGE OF PAVEMENT 2
DIRECTION:
CURRENT POSTED CLEARANCE
(WRITE N/A IF NOT CURRENTLY POSTED):
DIRECTION:
CURRENT POSTED CLEARANCE
(WRITE N/A IF NOT CURRENTLY POSTED):
DISTANCE METER MEASUREMENT
ROD HEIGHT
TOTAL HEIGHT
EDGE OF PAVEMENT 2
LANE 4
LANE 3
LANE 2
LANE 1
EDGE OF PAVEMENT 1
BACK FACE
EDGE OF PAVEMENT 1
LANE 1
LANE 2
LANE 3
LANE 4
EDGE OF PAVEMENT 2
MAINTENANCE AREA
BRIDGE KEY
ROUTE CARRIED BY BRIDGE
ROUTE UNDER BRIDGE
MILEPOST

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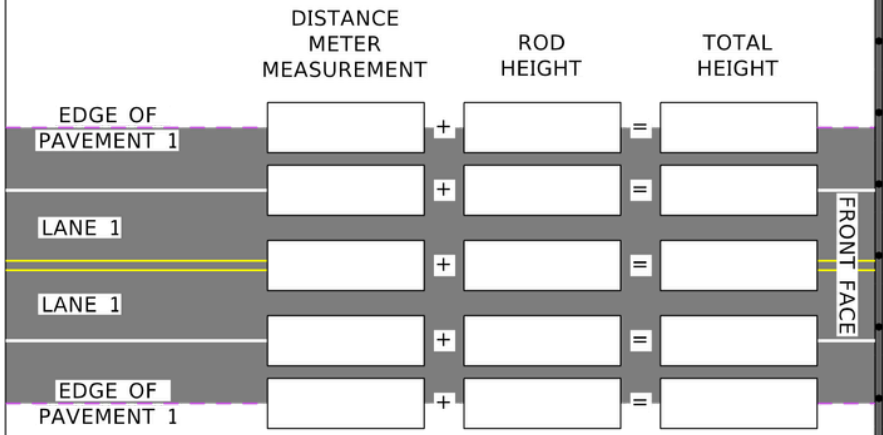
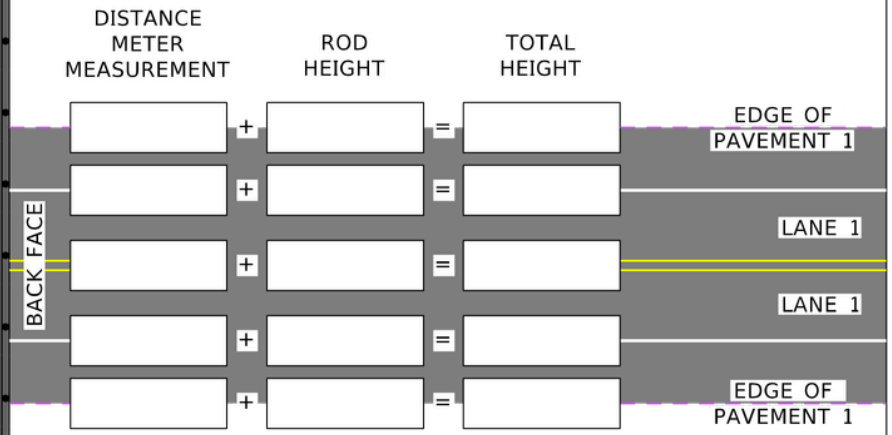
ACCENDING
MILEPOST

DIRECTION:_____

CURRENT POSTED CLEARANCE
(WRITE N/A IF NOT CURRENTLY POSTED):_____





DIRECTION:_____

MAINTENANCE AREA	
BRIDGE KEY	
ROUTE CARRIED BY BRIDGE	
ROUTE UNDER BRIDGE	
MILEPOST	

(Rev. 6-26)