097. 13 0PW/4 02-24-2016



Republic of the Philippines DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS OFFICE OF THE SECRETARY

Manila

2 3 FEB 2016

DEPARTMENT ORDER

SUBJECT: Minimum Vertical Clearance Above the Roadway for Railway, Flyover, Bridge and Footbridge Structures Along and Crossing National Highways

To ensure that all structures (railways, flyovers, bridges, and footbridges) constructed along or crossing national highways will provide sufficient vertical clearance, the following guidelines with typical section details as shown in Annex "A", are hereby prescribed:

- 1. Vertical clearance above the roadway shall not be less than 4.88 meters over the entire roadway width to which an allowance of 0.15 meter shall be added for future additional road surfacing.
- 2. The clearance to pedestrian footbridges over roads shall be 0.30 meter greater than the vertical clearance as cited above to reduce the risk of truck impact against pedestrian bridges which have low load capacity.
- 3. The minimum vertical clearance shall also be provided below the coping at locations where portion of the carriageway is underneath the coping (e.g., intersections, U-turn slots) to allow safe passage of vehicles.
- 4. The clear height/headroom between the pedestrian bridge walking surface and the bottom of the girder of the structure above shall not be less than 2.0 meters.

For strict compliance.

RØGELIC SINGSON

Secretary
Department of Public Works and Highways
Office of the Secretary

Office of the Secretary

ANNEX "A" ПO meenneenneen 900280088 ROLLING SURFACE OF RAILWAY BOTTOM OF RAILWAY STRUCTURE FLYOVER CARRIAGEWAY SURFACE YOVER CARRIAGEWAY SURFAC FLYOVER GIRDER BOTTOM OF GIRDER OF FLYOVER STRUCTURE BOTTOM OF GIRDER OF FLYOVER STRUCTUR - FLYOVER COPING - FLYOVER COPING FOOTBRIDGE WALKING SURFACE FOOTBRIDGE WALKING SURFACE FLYOVER COLUMN SHOULDER . SIDEWALK LEV - SIDEWALK LEVE GROUND LEVEL / PAVEMENT SURFACE a. PEDESTRIAN FOOTBRIDGE ALONG FLYOVER **b. PEDESTRIAN FOOTBRIDGE CROSSING FLYOVER** TYPICAL SECTION SHOWING MINIMUM VERTICAL CLEARANCE @ MAJOR JUNCTION WITH FOOTBRIDGE, FLYOVER, AND RAILWAY то SCALE NOT NOTE: 1. VERTICAL CLEARANCE ABOVE ROAD CARRIAGEWAY : a) 5.03 (min) - FOR RAILWAY / FLYOVER /BRIDGE 4.88 - VEHICLE CLEARANCE 0.15 - ALLOWANCE FOR FUTURE ADDITIONAL ROAD SURFACING b) 5.33 (min) - FOR PEDESTRIAN FOOTBRIDGE 4.88 - VEHICLE CLEARANCE 0.15 - ALLOWANCE FOR FUTURE ADDITIONAL ROAD SURFACING. 0.30 - ALLOWANCE TO REDUCE TRUCK IMPACT RISK 2. HEADROOM BETWEEN THE PEDESTRIAN WALKING SURFACE AND BOTTOM OF GIRDER OF THE STRUCTURE (RAILWAY, FLYOVER, BRIDGE) ABOVE: 2.00 (min.) 3. ALL DIMENSIONS ARE IN METER UNLESS OTHERWISE SPECIFIED.