



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

077.13 DPWH
01-13-2016

11 JAN 2016

DEPARTMENT ORDER)
NO. **08**)
Series of 2016 01.13.16)

**SUBJECT: ADOPTING A UNIFORM TRANSITION
JOINTS ON HIGH TYPE PAVEMENT
SURFACING ALONG NATIONAL
ROADS AND LOCAL STREETS**

All Implementing units of the Department are hereby directed to adhere to the following typical transition joints for the construction of road projects involving high type pavement surfacing in order to provide stronger joint between concrete pavement and asphalt pavement, to attain the highest quality of work, and to produce sound, durable and economical structures:

- A. Annex "1" Joining road with PCCP (At Road Intersection)
 - Figure 1 : Schematic Plan
 - Figure 1a : Transition Profile, Existing
 - Figure 1b : Transition Profile, AC Overlay
- B. Annex "2" Joining road with PCCP (Along Thru-Road)
 - Figure 2 : Schematic Plan
 - Figure 2a : Transition Profile, Existing
 - Figure 2b : Transition Profile, AC Overlay
- C. Annex "3" Transition Zone Approaching Existing (Bridges/Flyovers)
 - Figure 3 : Schematic Plan
 - Figure 3a : Transition Profile, Existing
 - Figure 3b : Transition Profile, AC Overlay

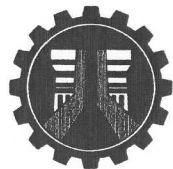
For strict compliance.


ROGELIO L. SINGSON
Secretary

Department of Public Works and Highways
Office of the Secretary



WIN6R01209

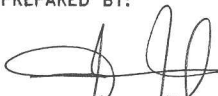


Republic of the Philippines
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
BUREAU OF DESIGN, HIGHWAYS DIVISION
Bonifacio Drive, Port Area, Manila

STANDARD HIGHWAYS DESIGN PLANS

1. STANDARD JOINING ROAD WITH PCCP (AT ROAD INTERSECTION)
2. STANDARD JOINING ROAD WITH PCCP (ALONG THRU-ROAD)
3. STANDARD TRANSITION ZONE APPROACHING EXISTING BRIDGE/FLYOVER

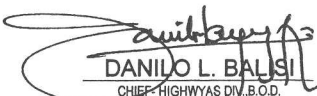
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Office of the Secretary



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ANNEX " 1 " JOINING ROAD WITH PCCP (AT ROAD INTERSECTION)

1st. STEP: MILLING OF EXISTING SLAB

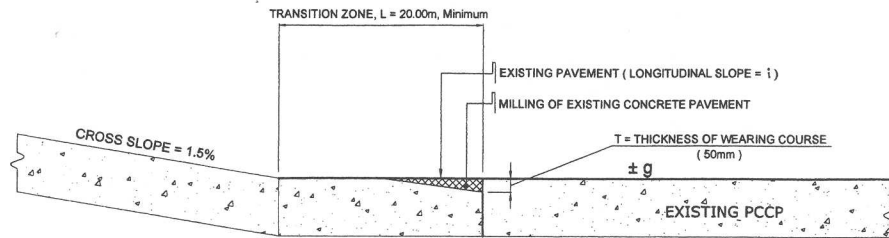


FIGURE 1a : TRANSITION PROFILE , EXISTING
NOT TO SCALE

2nd. STEP: LAYING OF REMAINING ASPHALT COURSES

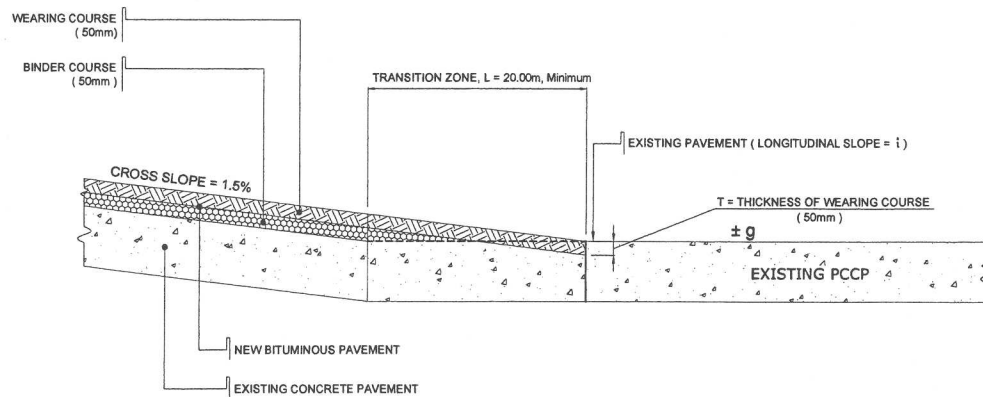
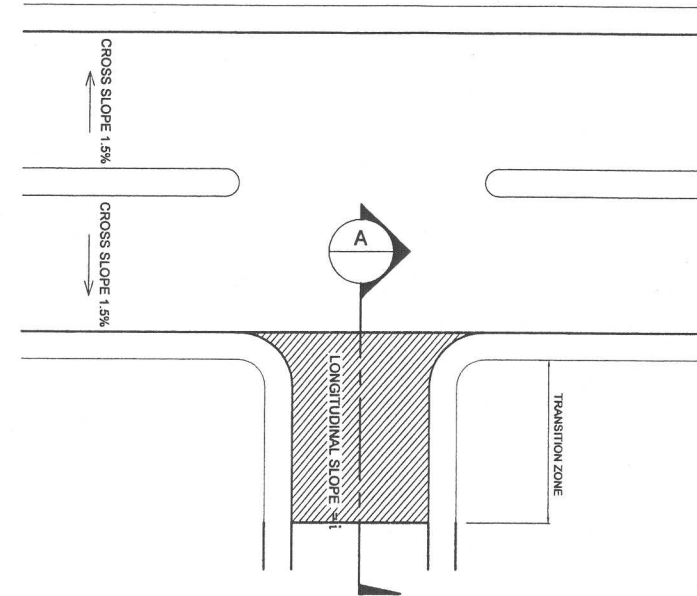


FIGURE 1b : TRANSITION PROFILE , AC OVERLAY
NOT TO SCALE



NOTE :


1. THE MILLING OF EXISTING SLAB SHOULD END AT THE NEXT WEAKENED PLANE JOINT.
2. THE ALGEBRAIC DIFFERENCE OF GRADIENT AT JOINING ROAD SHOULD NOT EXCEED 0.50%. OTHERWISE APPROPRIATE VERTICAL PARABOLIC CURVE SHALL BE PROVIDED IF THE ALGEBRAIC DIFFERENCE OF GRADIENT IS MORE THAN 0.50%.

FIGURE 1 : SCHEMATIC PLAN
NOT TO SCALE

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 <p>REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS BUREAU OF DESIGN HIGHWAYS DIVISION BONIFACIO DRIVE, PORT AREA, MANILA</p>	<p>SHEET CONTENTS:</p> <p>AS - SHOWN</p>	<p>SHEET TITLE:</p> <p>JOINING ROAD WITH PCCP (AT ROAD INTERSECTION)</p>	<p>PREPARED BY:</p> <p>DESIGN: PETER JAMES T. ESQUIBEL / ENGINEER I PAOLO CARLO M. SALVADOR / ENGINEER I</p> <p>DRAWN: MARCIAL D. OROL ENGINEER I (REGISTERED)</p> <p>CHECKED: ROMEO C. RAAGAS ENGINEER</p>	<p>DATE:</p> <p>SIGNATURE:</p>	<p>REVIEWED BY:</p> <p>DANTE L. BALISIL CHIEF, HIGHWAYS DIVISION</p>	<p>RECOMMENDING APPROVAL:</p> <p>SEE COVER SHEET FOR SIGNATURE: DANTE B. POTANTE DIRECTOR IV, B.O.D.</p>	<p>SEE COVER SHEET FOR SIGNATURE: RAUL C. ASIS UNDERSECRETARY</p>	<p>APPROVED BY:</p> <p>SEE COVER SHEET FOR SIGNATURE: ROSELIO W. SINGSON SECRETARY</p>	<p>SET NO.</p> <p>STD RS-PS</p> <p>SHEET NO.</p> <p>01 03</p>
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ANNEX " 2 " JOINING ROAD WITH PCCP (ALONG THRU - ROAD)

1st. STEP: MILLING OF EXISTING SLABS

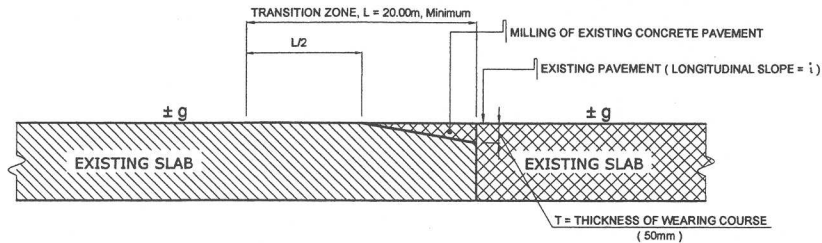


FIGURE 2a : TRANSITION PROFILE , EXISTING
NOT TO SCALE

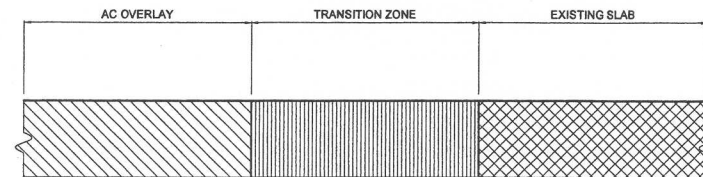


FIGURE 2 : SCHEMATIC PLAN
NOT TO SCALE

2nd. STEP: LAYING OF REMAINING ASPHALT COURSES

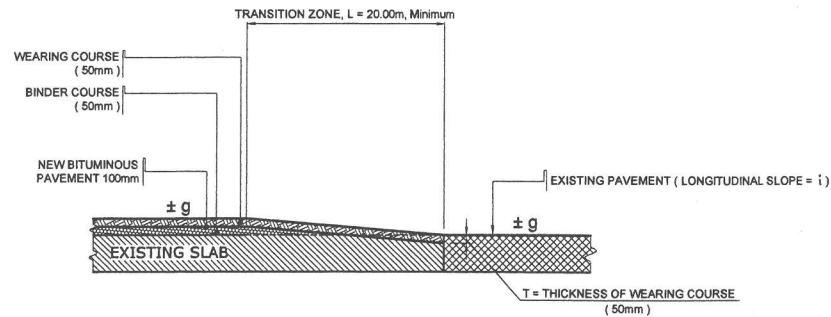



FIGURE 2b : TRANSITION PROFILE , AC OVERLAY
NOT TO SCALE

NOTE :

1. THE MILLING OF EXISTING SLAB SHOULD END AT THE NEXT WEAKENED PLANE JOINT.
2. THE ALGEBRAIC DIFFERENCE OF GRADIENT AT JOINING ROAD SHOULD NOT EXCEED 0.50%. OTHERWISE APPROPRIATE VERTICAL PARABOLIC CURVE SHALL BE PROVIDED IF THE ALGEBRAIC DIFFERENCE OF GRADIENT IS MORE THAN 0.50%.

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ANNEX " 3 " TRANSITION ZONE APPROACHING EXISTING BRIDGE / FLYOVER

1st. STEP: MILLING OF EXISTING SLABS

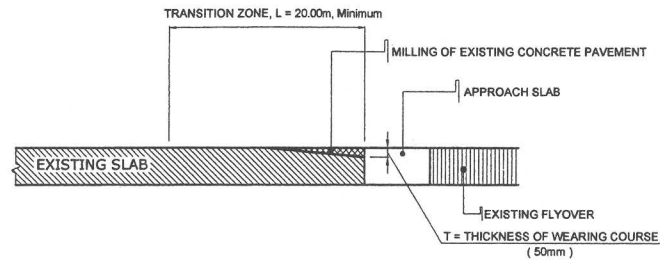


FIGURE 3a : TRANSITION PROFILE , EXISTING
NOT TO SCALE

2nd. STEP: LAYING OF REMAINING ASPHALT COURSES

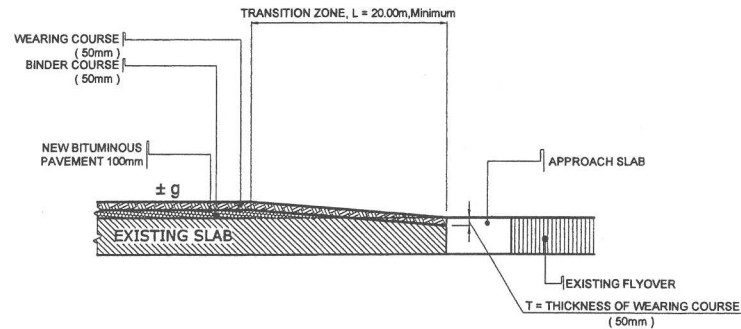


FIGURE 3b : TRANSITION PROFILE , AC OVERLAY
NOT TO SCALE

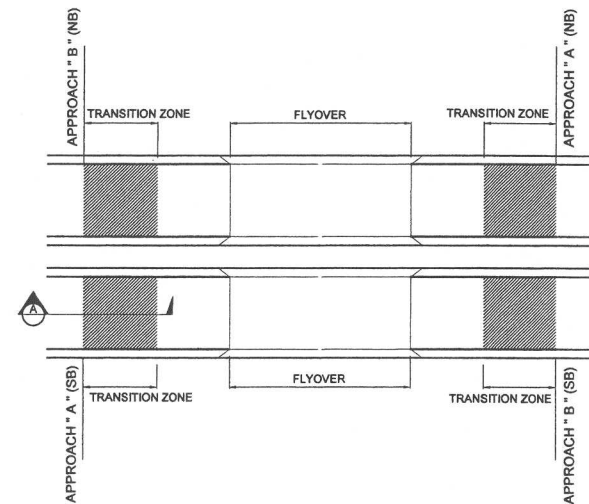


FIGURE 3 : SCHEMATIC PLAN FOR EXISTING FLYOVER
NOT TO SCALE

NOTE :




1. THE MILLING OF EXISTING SLAB SHOULD END AT THE NEXT WEAKENED PLANE JOINT.
2. THE ALGEBRAIC DIFFERENCE OF GRADIENT AT JOINING ROAD SHOULD NOT EXCEED 0.50%. OTHERWISE APPROPRIATE VERTICAL PARABOLIC CURVE SHALL BE PROVIDED IF THE ALGEBRAIC DIFFERENCE OF GRADIENT IS MORE THAN 0.50%.

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SHEET CONTENTS:	SHEET TITLE:	PREPARED BY:	DATE:	SIGNATURE	REVIEWED BY:	RECOMMENDING APPROVAL:		APPROVED BY:	SET NO.	SHEET NO.
AS - SHOWN	TRANSITION ZONE APPROACHING EXISTING BRIDGE / FLYOVER	DESIGN: PETER JAMES T. ESQUIBIL / ENGINEER I PAOLO CARLO M. SALVADOR / ENGINEER I				SEE COVER SHEET FOR SIGNATURE: DANTE B. POTANTE DIRECTOR IV, B.O.D.	SEE COVER SHEET FOR SIGNATURE: RAUL C. ASIS UNDERSECRETARY	SEE COVER SHEET FOR SIGNATURE: ROGELIO L. SINGSON SECRETARY	STD RS-PS	03 03
		DRAWN: MARCIAL D. ORIOLO / ENGINEER/ASSISTANT								
		CHECKED: ROMEO C. RAAGAS / ENGINEER		