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## SLAB REPAIR AND REPLACEMENT CRITERIA

DISTRESS PATTERN	SEVERITY/DESCRIPTION		REPAIR METHOD	REF
CRACKING				
	Light	$<\!$	None	Fi
Longitudinal	Moderate	$\frac{1}{8}$ " <width <<math="">\frac{1}{2}", spalling &lt;3" wide</width>	Clean and Seal	Fi
	Severe	width > $\lambda_2^{\prime\prime}$ , spalling >3" faulting > $\lambda_2^{\prime\prime}$ "	Replace	Fi
	Light	$<\!$	None	Fi
Transverse	Moderate	$\frac{1}{8}$ " <width <<math="">\frac{1}{2}", spalling &lt;3" wide</width>	Clean and Seal	
	Severe	width > $\frac{1}{2}$ ", spalling >3" faulting > $\frac{1}{2}$ "	Replace	Figure 10
Corner Breaks	adjacent lo	the slab is separated by a crack that intersects the ngitudinal and transverse joint, describing an approximate ith the direction of traffic.	Full Depth	Figure
Intersecting Random Cracks (Shattered Slab)	Cracking pa	tterns that divide the slab into three or more segments.	Full Depth	Figure
JOINT DEFICIENCIES				
	Light	spall width $<1\frac{1}{2}$ ", $<\frac{1}{3}$ slab depth, $<12$ " in length	None	Figure
Spall Nonwheel Path	Moderate	$1\frac{1}{2}$ " <spall <="" <3",="" <math="" width="">\frac{1}{3} slab depth, &lt;12" in length</spall>	None	Figure
	Severe	spall width >3" or length >12"	Full Depth	Figure
	Light	spall width $<1\frac{1}{2}$ ", $<$ than $\frac{1}{3}$ slab depth, $<12$ " in length	None	Figure
Spall Wheel Path	Moderate	$1^{1}/_{2}^{"}$ <spall <="" <3",="" <math="" width="">^{1}/_{3} slab depth, &lt;12" in length</spall>	Full Depth	Figure
	Severe	spall width >3" or length >12"	Full Depth	Figure
SURFACE DETERIORATIO	v			
Pop Outs Nonwheel Path	from 1 to 4	s of surface pavement broken loose, normally ranging 4 in. diameter and $\frac{1}{2}$ to 2 in. in depth.		
	Light	Not deemed to be a traffic hazard	Keep under observation	
Severe Flying debris deemed a traffic hazard   Small pieces of surface pavement broken loose, normally   >3" diameter and 2" in depth.		s of surface pavement broken loose, normally	Full Depth	Fi
	Light	Deemed to be a traffic hazard	Full Depth	Fi
	Severe	Flying debris deemed a traffic hazard	Full Depth	Fi
AISCELLANEOUS DISTRES	S			
	Elevation d	ifferences across joints or cracks.		
Faulting	Light	Faulting <4/32"	None	
	Moderate	4 <faulting 32"<="" <16="" td=""><td>Grind</td><td></td></faulting>	Grind	
	Severe	Faulting >16/32"	Grind	
	Light	0 <drop-off <1"<="" td=""><td>None</td><td></td></drop-off>	None	
Lane To Shoulder Drop-Off	Moderate	1" <drop-off <3"<="" td=""><td>Build Up</td><td></td></drop-off>	Build Up	
Lane to shoulder Drop-Off	Severe	drop-off >3 "	Build Up	
Water Bleeding Or Pumping		ejection of water through joints or cracks.	Install appropriate drainage, edge drain, permeable subbase, reseal joints, etc.	
Blowups	Upward movement at transverse joints or cracks often accompanied by shattering of the concrete.		Full Depth	Figure

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LAST REVISION 07/01/10

FY 2016-17 DESIGN STANDARDS

## CONCRETE SLAB REPLACEM

REFERENCE	]		
Figure 10.2			
Figure 10.2			
Figure 10.3	1		
Figure 10.2			
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Figure 10.4			
Figure 10.4	-		
Figure 10.4			
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