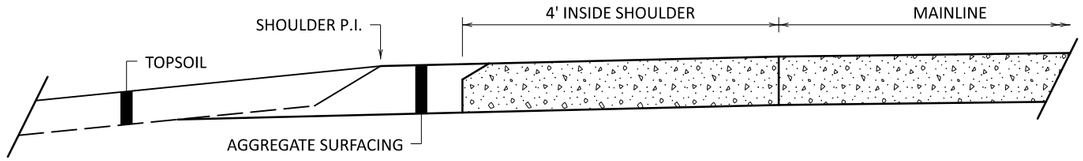
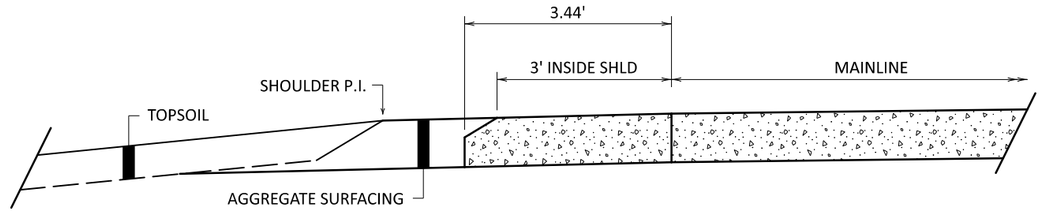
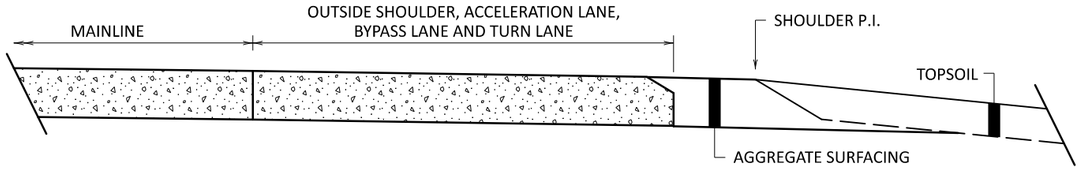


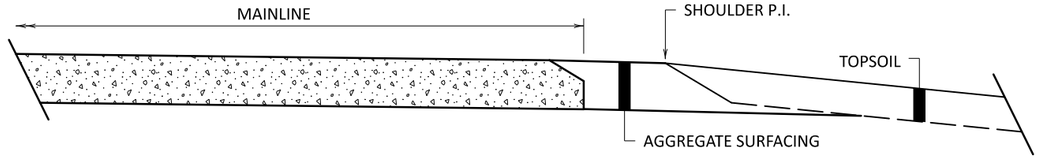
4' INSIDE CONCRETE SHOULDER ①



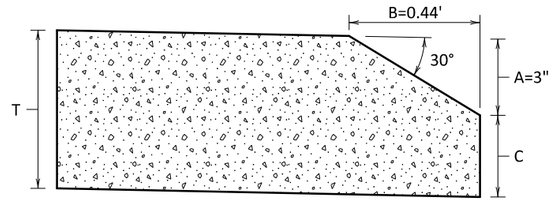
3' INSIDE CONCRETE SHOULDER ②



CONCRETE PAVEMENT WITH OUTSIDE SHOULDER (8' OR LESS), ACCELERATION LANES, BYPASS LANES OR TURN LANES ①

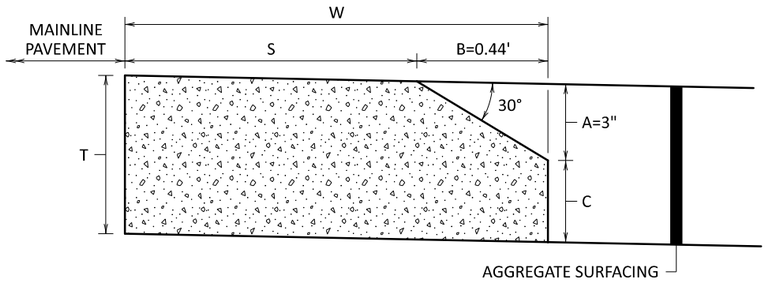


CONCRETE PAVEMENT WITH AGGREGATE SHOULDERING ①



CONCRETE SAFETY EDGE HEIGHT	
PAVEMENT THICKNESS, T	EDGE HEIGHT C=T-3
5"	2"
6"	3"
7"	4"
8"	5"
9"	6"
10"	7"

CONCRETE SAFETY EDGE HEIGHT



CONCRETE SAFETY EDGE WIDTH			
DESIGNED SHOULDER WIDTH	PAVED SHOULDER WIDTH, W	SAFETY EDGE WIDTH, B	TOP SURFACE WIDTH, S
3'	3.44'	0.44'	3'
4'	4'	0.44'	3.56'
6'	6'	0.44'	5.56'
8'	8'	0.44'	7.56'

CONCRETE SAFETY EDGE WIDTH
FOR CONCRETE SHOULDERS ≤ 8' WIDE

NOTES:

CONSTRUCT THE SAFETY EDGE ALONG ALL CONCRETE PAVEMENT EDGES ADJACENT TO AGGREGATE SURFACING.
THIS INCLUDES:
- MAINLINE ROADWAYS
- SHOULDERS 8' WIDE OR LESS
- RAMPS AND LOOPS
- ACCELERATION, BYPASS AND TURN LANES

PROVIDE THE SAFETY EDGE ALONG THE ROADWAY THROUGH UNPAVED ENTRANCES SUCH AS FARM ACCESSES, UNPAVED DRIVEWAYS, AND GRAVEL ROAD ACCESSES. FOR PAVED PUBLIC ENTRANCES AND PAVED DRIVEWAYS, STOP THE SAFETY EDGE AND MATCH THE PROPOSED CONSTRUCTED PAVEMENT TO THE EXISTING CONDITIONS OR FOLLOW THE DESIGN PLANS. SHORT SECTIONS OF HANDWORK MAY BE NECESSARY FOR TRANSITIONS AND TURNOUTS.

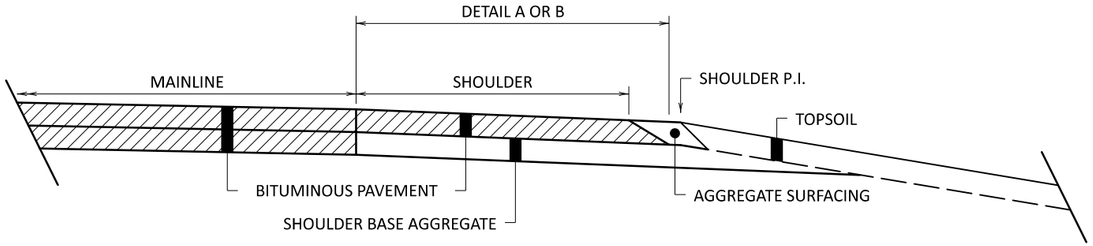
SAFETY EDGE IS OPTIONAL FOR PAVED SHOULDER WIDTHS GREATER THAN 8'.

SEE TYPICAL SECTIONS FOR SAFETY EDGE PLACEMENT LOCATIONS.

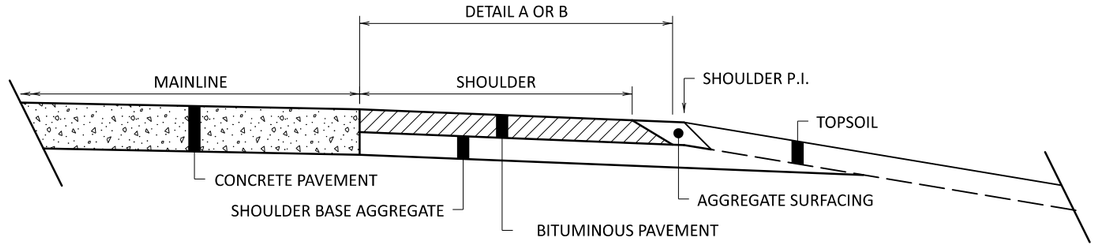
① INTEGRATE THE CONCRETE SAFETY EDGE WITHIN THE DESIGNED PAVEMENT EDGE. DO NOT ADD THE CONCRETE SAFETY EDGE TO THE OUTSIDE EDGE OF THE DESIGNED PAVEMENT WIDTH.

② WHEN CONSTRUCTING A 3' INSIDE SHOULDER, PLACE THE SAFETY EDGE OUTSIDE THE 3' SHOULDER WIDTH, PROVIDING AT LEAST 3' OF TOP CONCRETE SHOULDER SURFACE WIDTH.

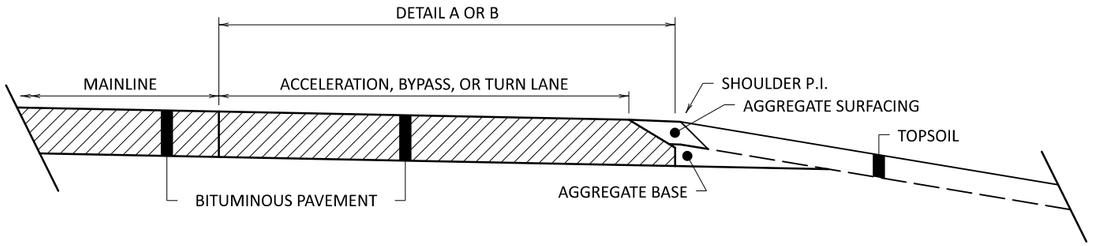
LEAD EXPERT OFFICE	CURT TURGEON DIRECTOR OFFICE OF MATERIALS & ROAD RESEARCH		SAFETY EDGE CONCRETE PAVEMENT	APPROVED: 02-21-2024 REVISED:	THOMAS STYRBICKI STATE DESIGN ENGINEER	STANDARD PLAN 5-297.220	1 OF 2
	DEPARTMENT OF TRANSPORTATION		STANDARD PLAN	STATE PROJ. NO.		SHEET NO.	
				TRUNK HWY.		TOTAL SHEETS	



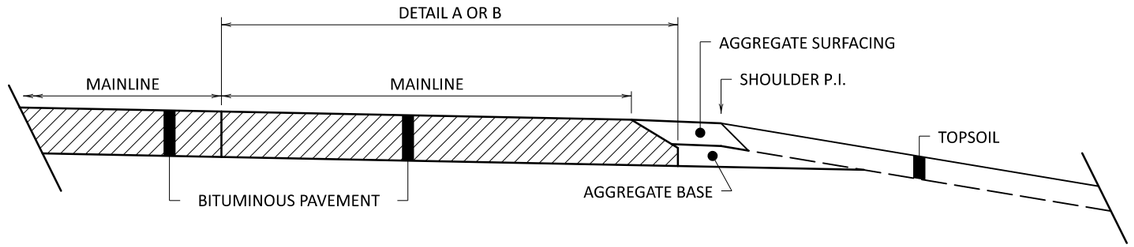
BITUMINOUS PAVEMENT WITH BITUMINOUS SHOULDERS (8' OR LESS)



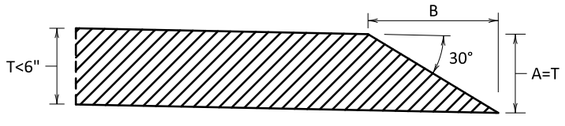
CONCRETE PAVEMENT WITH BITUMINOUS SHOULDERS (8' OR LESS)



BITUMINOUS PAVEMENT WITH ACCELERATION LANES, BYPASS LANES OR TURN LANES

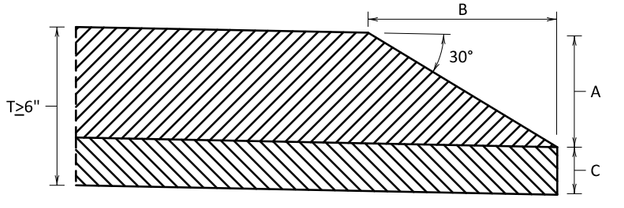


BITUMINOUS PAVEMENT WITH AGGREGATE SHOULDERING



DETAIL A
PAVEMENT THICKNESS <6"

FOR BITUMINOUS PAVEMENT THICKNESS < 6"	
PAVEMENT THICKNESS, T	B
2"	3.5"
3"	5.2"
4"	6.9"
5"	8.7"



DETAIL B
PAVEMENT THICKNESS ≥ 6"

FOR BITUMINOUS PAVEMENT THICKNESS ≥ 6"			
PAVEMENT THICKNESS, T	A	B	C
6"	5"	8.7"	1"
8"	5"	8.7"	3"
10"	5"	8.7"	5"
12"	5"	8.7"	7"

NOTES:

CONSTRUCT THE SAFETY EDGE ALONG ALL BITUMINOUS PAVEMENT EDGES ADJACENT TO AGGREGATE SURFACING. THIS INCLUDES:
- MAINLINE ROADWAYS
- SHOULDERS 8' WIDE OR LESS
- RAMPS AND LOOPS
- ACCELERATION, BYPASS AND TURN TURN LANES

CONSTRUCT THE SAFETY EDGE USING A MANUFACTURED SHOE DEVICE ATTACHED TO THE PAVING MACHINE. A SINGLE-PLATE STRIKE-OFF METHOD IS NOT ALLOWED.

PROVIDE THE SAFETY EDGE ALONG THE ROADWAY THROUGH UNPAVED ENTRANCES SUCH AS FARM ACCESSES, UNPAVED DRIVEWAYS, AND GRAVEL ROAD ACCESSES. FOR PAVED PUBLIC ENTRANCES AND PAVED DRIVEWAYS, STOP THE SAFETY EDGE AND MATCH THE PROPOSED CONSTRUCTED PAVEMENT TO THE EXISTING CONDITIONS OR FOLLOW THE DESIGN PLANS. SHORT SECTIONS OF HANDWORK MAY BE NECESSARY FOR TRANSITIONS AND TURNOUTS.

SAFETY EDGE IS OPTIONAL FOR PAVED SHOULDER WIDTHS GREATER THAN 8'.

SEE TYPICAL SECTIONS FOR SAFETY EDGE PLACEMENT LOCATIONS.

THE SAFETY EDGE IS ADDED TO THE OUTSIDE OF THE REQUIRED BITUMINOUS TOP SURFACE WIDTH SHOWN IN THE PLANS.

LEAD EXPERT OFFICE	CURT TURGEON DIRECTOR OFFICE OF MATERIALS & ROAD RESEARCH		SAFETY EDGE BITUMINOUS PAVEMENT	APPROVED: 02-21-2024 REVISED:	THOMAS STYRBICKI STATE DESIGN ENGINEER	STANDARD PLAN 5-297.220	2 OF 2
	DEPARTMENT OF TRANSPORTATION		STANDARD PLAN	STATE PROJ. NO.		SHEET NO.	
				TRUNK HWY.		TOTAL SHEETS	