

ALABAMA DEPARTMENT OF TRANSPORTATION

CONSTRUCTION BUREAU

1409 Coliseum Boulevard, Montgomery, Alabama 36110
 P. O. Box 303050, Montgomery, Alabama 36130-3050
 Phone: 334-242-6218 FAX: 334-264-3727



Kay Ivey Governor John R. Cooper Transportation Director

September 30, 2019

MEMORANDUM

TO: Region Engineers

ATTN: Asst. Region Engineers, Region Preconstruction Engineers,

Area Operations, Construction, and Local Transportation Engineers

FROM: Winston J. Powe, PE

State Construction Engineer

RE: Striping, Marking, and Legend Layout

Based on feedback recently received from the ARBA Liaison Committee and from observations in the field, there are still on-going issues with the proper layout of striping, markings, and legends, especially for accel/decel lanes, lane drops, and lane reductions. The need to be knowledgeable about current practices and to communicate with the striping subcontractor well in advance of the performance of the work was previously addressed in CIM 8-2018 (copy attached). Furthermore, this issue was singled out at the 2019 CE/ME Conference as one of the Points of Emphasis in the "State of Construction" presentation.

In an effort to bring about improvements, Mr. Kerry NeSmith, Deputy State Maintenance Engineer, gave a presentation titled **Striping Matters v2.3** at the same CE/ME Conference. The PowerPoint version can be found on ALDOT's Intranet at \\csnt401\temp\CEME, and a pdf version is also attached for distribution to parties outside the Department. The presentation, which references applicable ALDOT special drawings and the MUTCD, would be very useful for training of your personnel. A narrated version is forthcoming to enhance the use of this presentation as a training tool.

Since the release of CIM 8-2018 and its follow-up, we are aware that improvements have been made in plan layouts for striping, marking, and legend layouts and plan box sheets. Examples of each are attached. Providing this type of information will help avoid mistakes in the field and the need for corrections.

CIMs 5-2017 and 1-2019, along with a follow up to CIM 8-2018, are also attached for your reference and emphasis to your personnel. Please share this memorandum with appropriate personnel within your Bureau, Region, and Area.

WJP/JLB/jlb

Attachments

pc: Mr. George Conner, PE Mr. Don Arkle, PE Mr. William Adams, PE Mr. Steve Walker, PE Mr. Ed Phillips, PE Mr. Clay McBrien, PE

Mr. Stacey Glass, PE FHWA ARBA AAPA ALBCA ACIA

ACEA File

"Striping *Matters*" v2.3

Kerry NeSmith, P.E. CE/ME Conference September 5, 2019

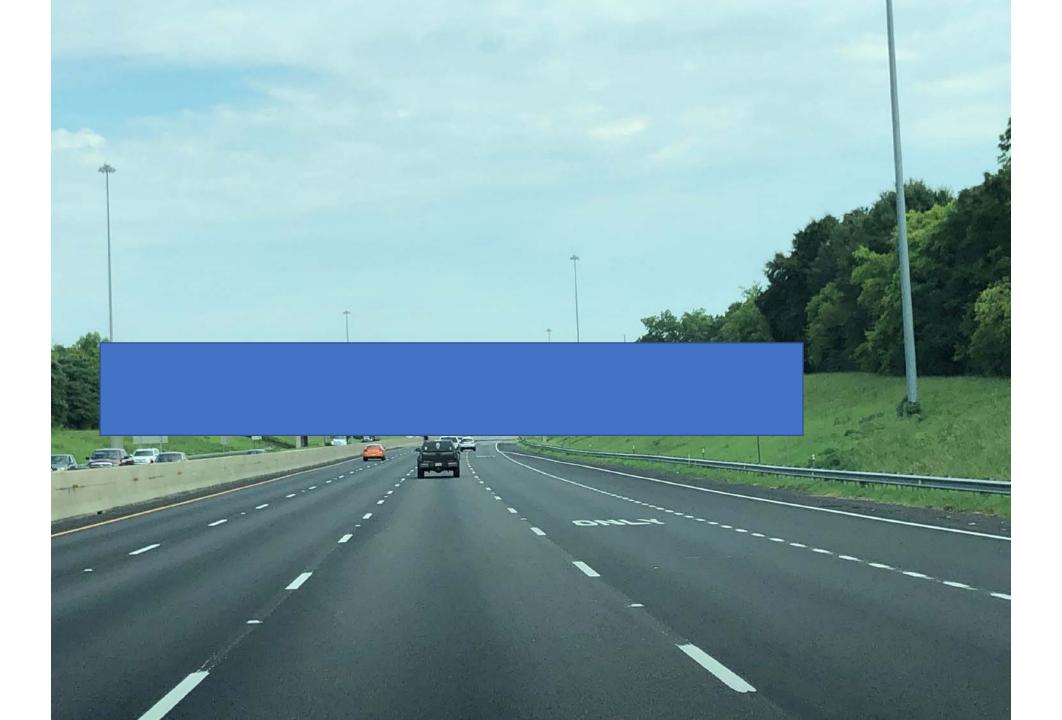
Items to address

- Acceleration Lanes
- Deceleration Lanes
- Dropped Lanes
- Lane Reductions
- Stop lines
- Intersections

Items to address

- Acceleration Lanes
- Deceleration Lanes
- Dropped Lanes





Acceleration Lanes

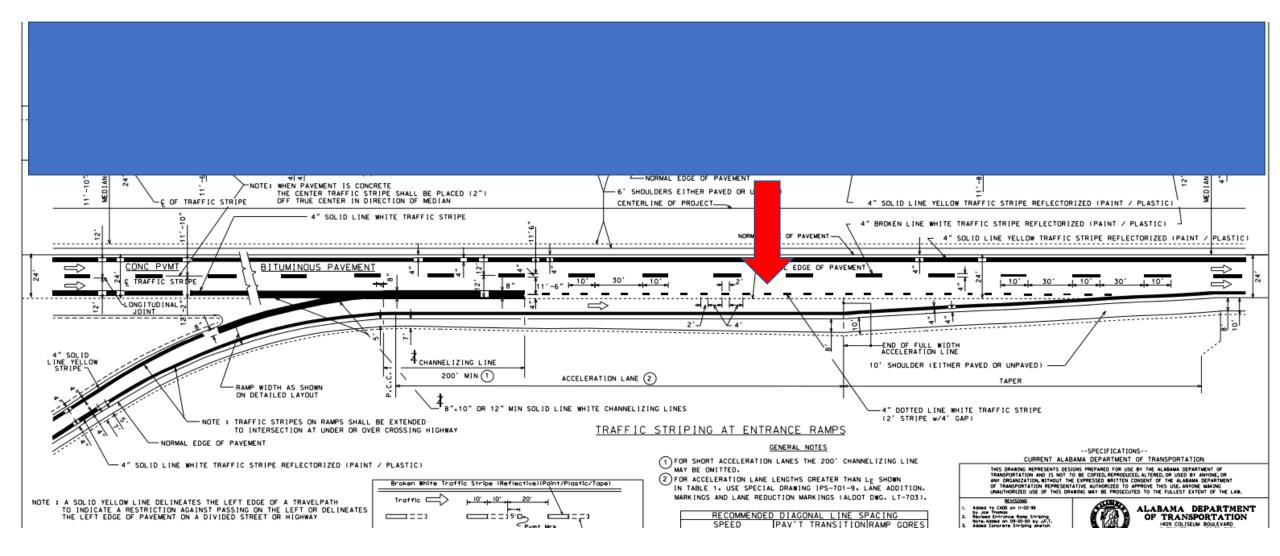
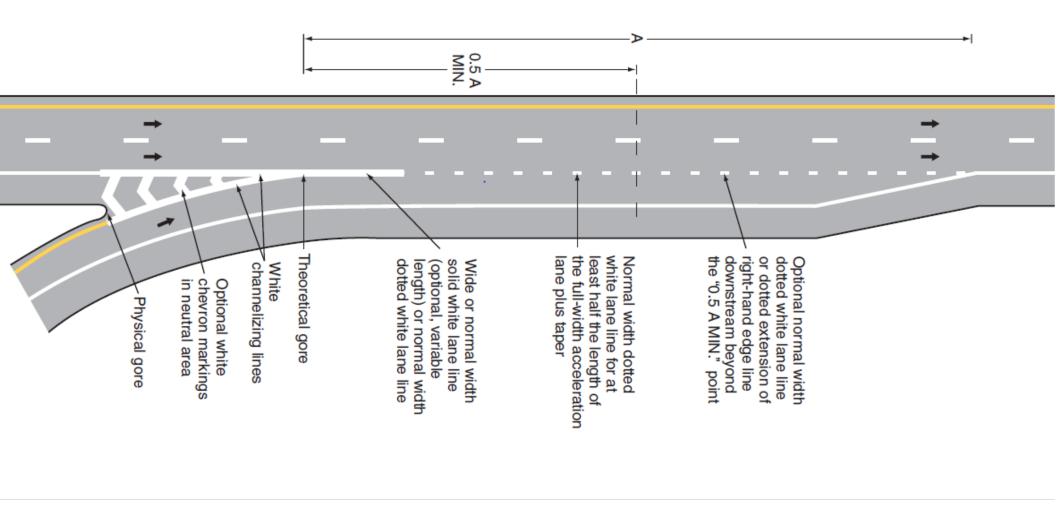


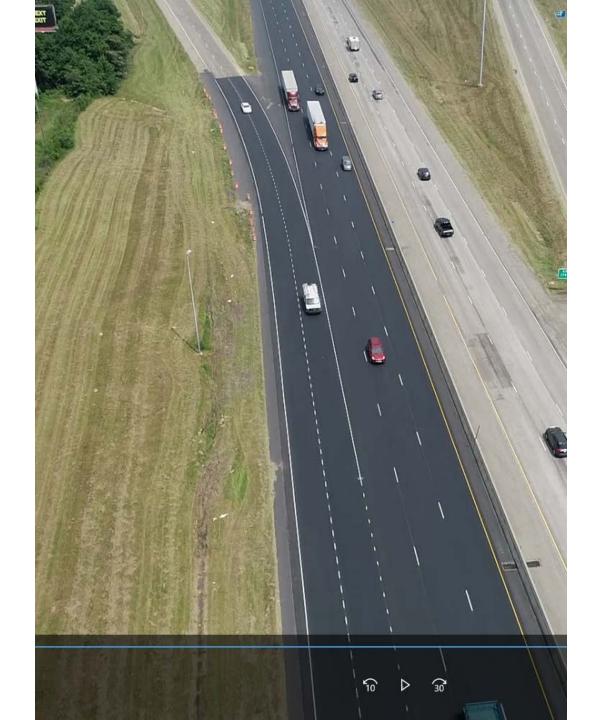
Figure 3B-9. **Examples of Dotted Line and C** Entrance Ramp Marking:

A - Parallel acceleration lane

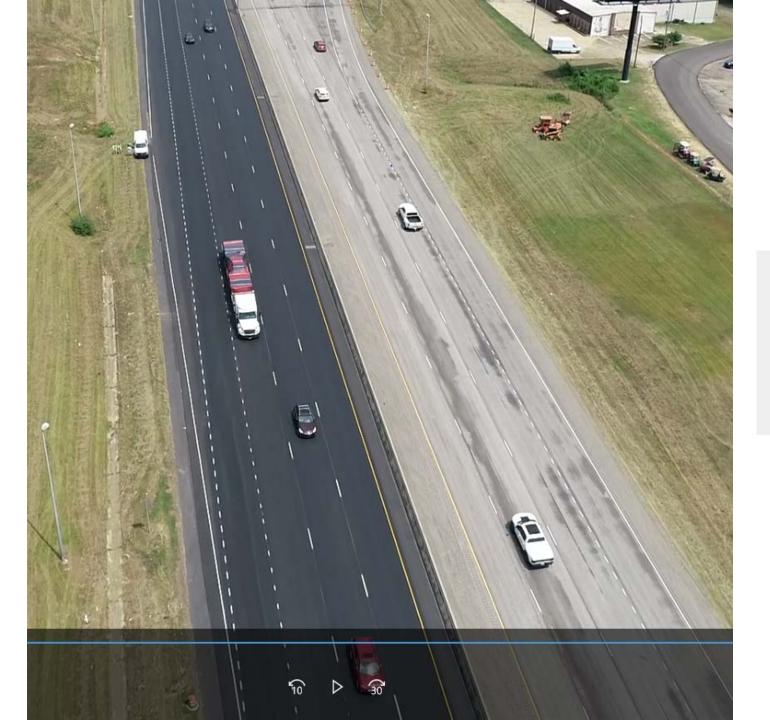




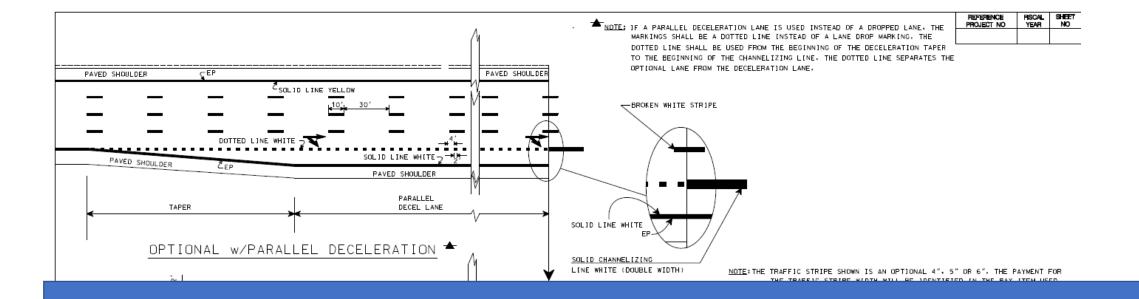




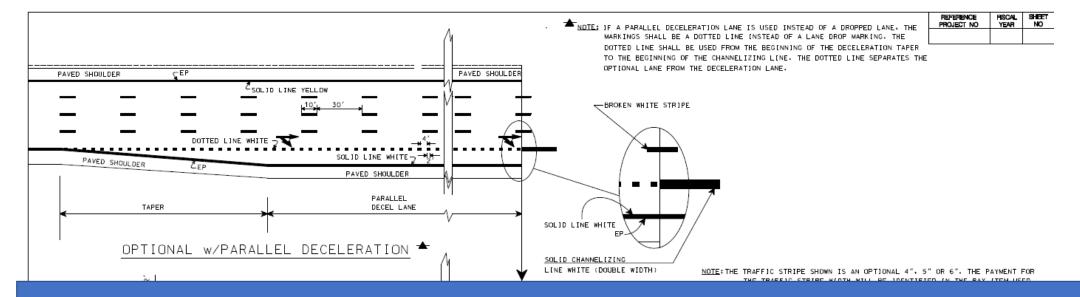








Parallel Deceleration Lanes Index 1014



Parallel Deceleration Lanes (not the same as a drop lane)

Index 1014

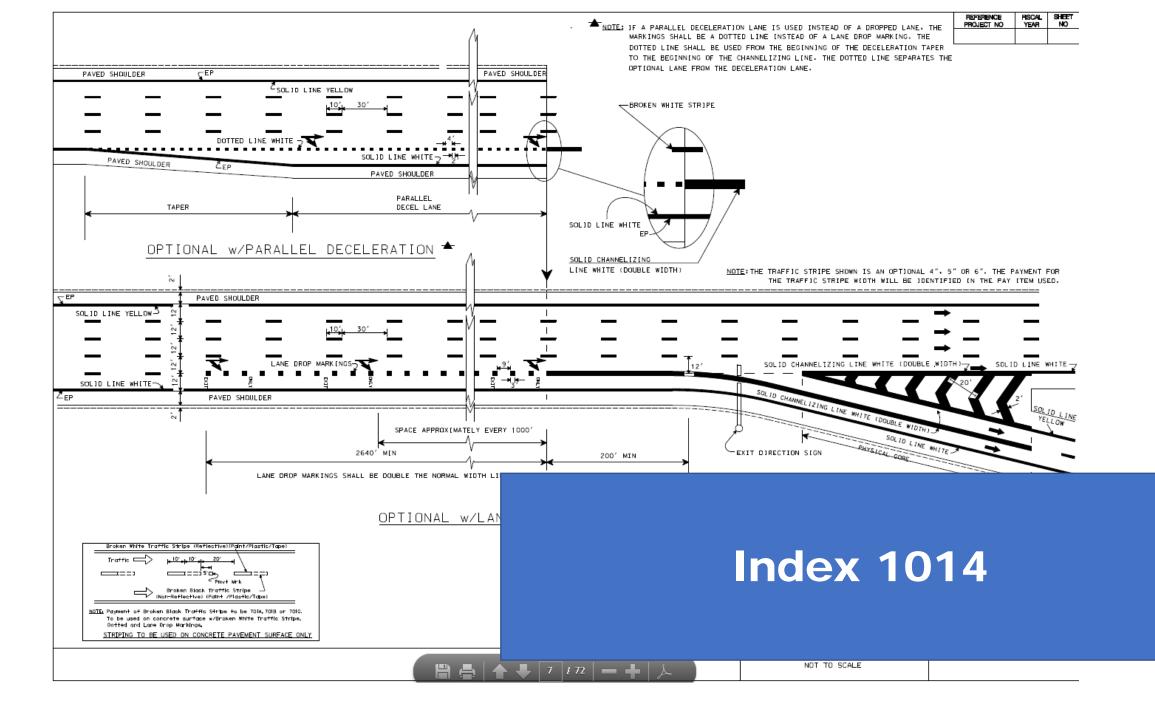
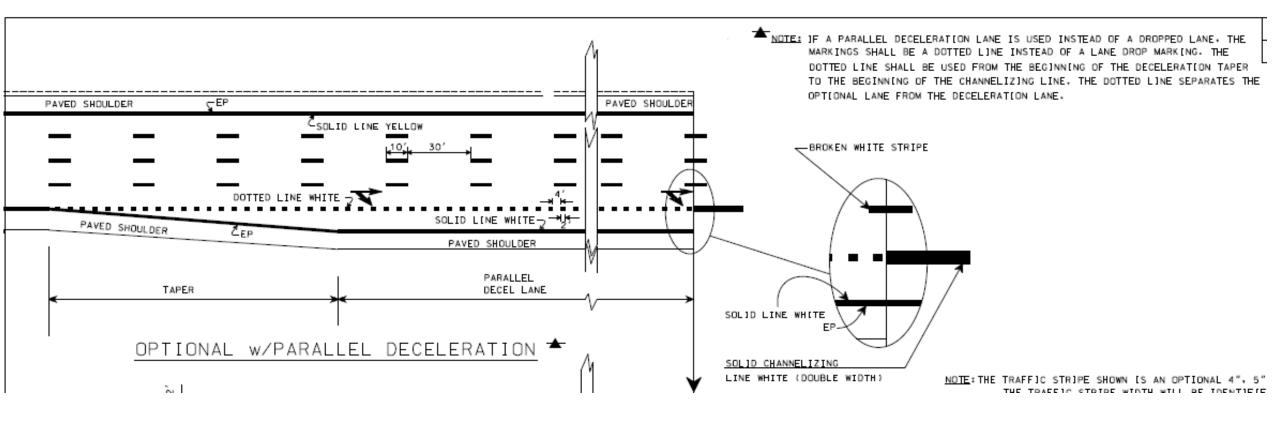
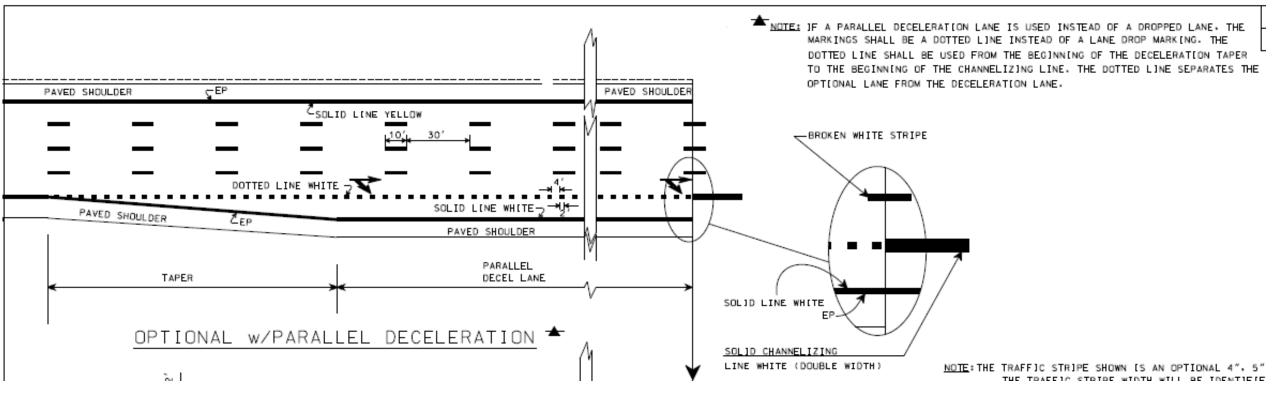


Figure 3B-8. **Examples of Dotted Line and Chan** for Exit Ramp Markings (Shee

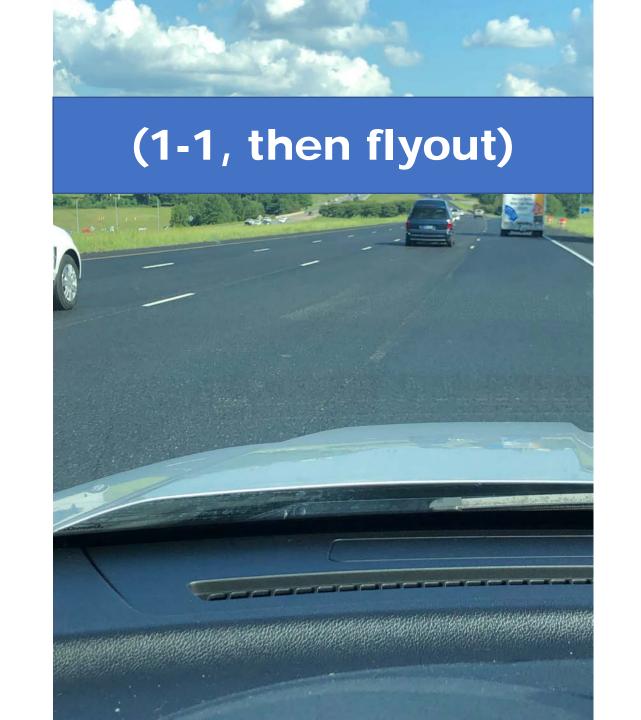
Wide or normal width solid white lane line (optional, variable length) or normal width dotted white Optional white chevron markings in channelizing neutral area lane line Physical White lines gore A - Parallel deceleration lane Theoretical gore white chevro marking in neutra Optiona

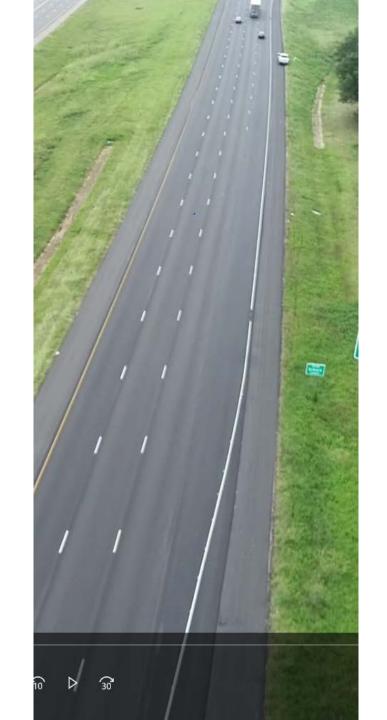
lane to theoretical gore or to upstream end of optional solid white lane line white lane line from upstream end of full width deceleration Normal width dotted Normal width dotted lane line or dotted extension of righthand edge line deceleration is optional in lane taper Theoretical gor Options normal widt dotted whit extension of right-han edge lin



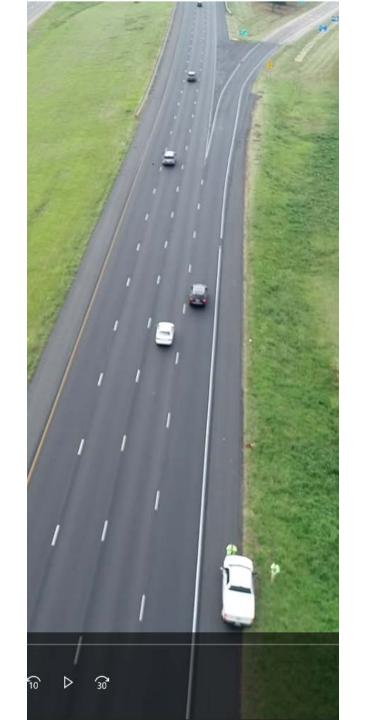


Same striping with or without optional exit lane!



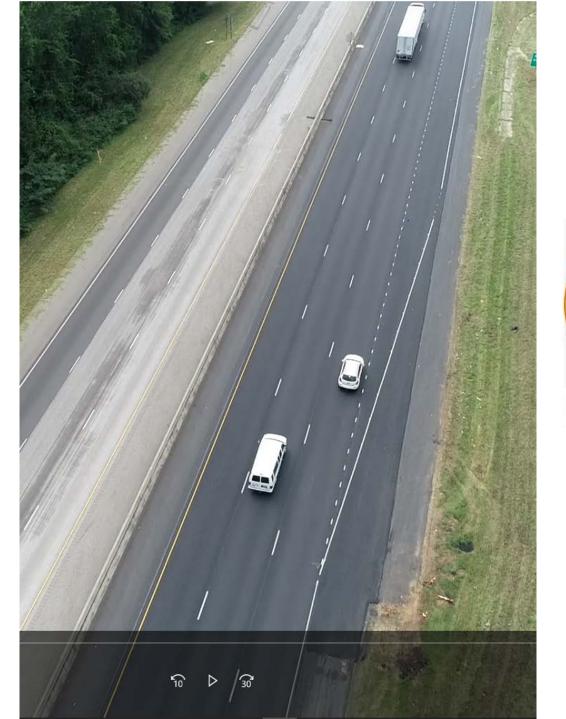






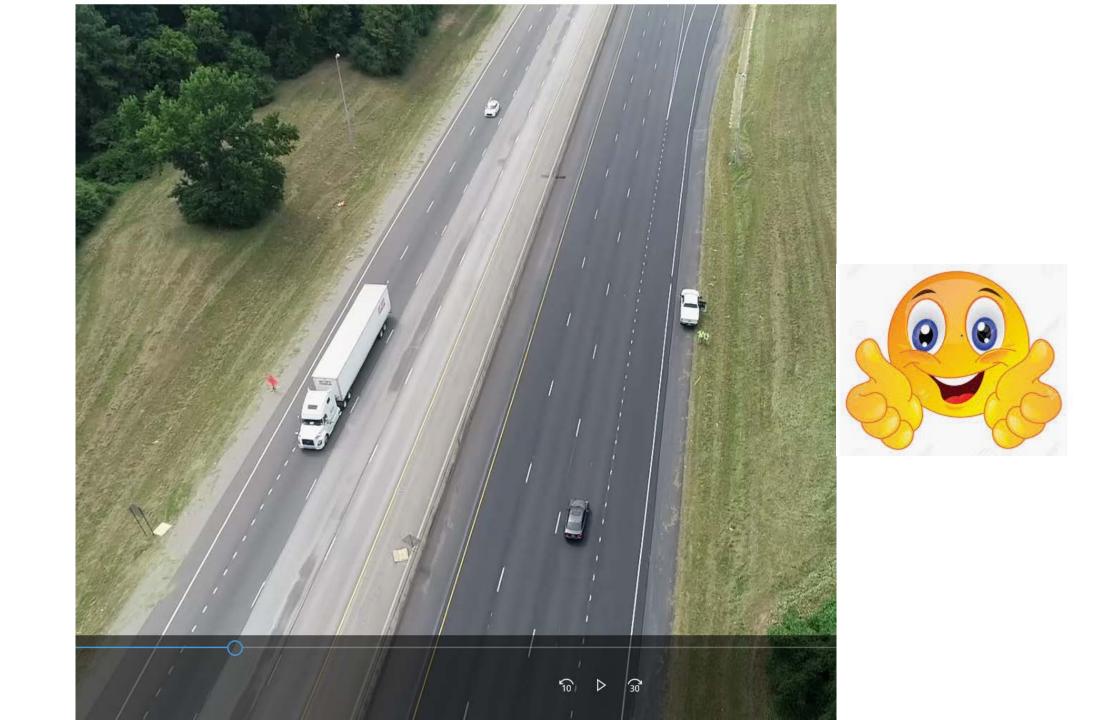








600+ Free Smiley & Emoticon Vectors ... pixabay.com



LANE DROPS

Index 1014

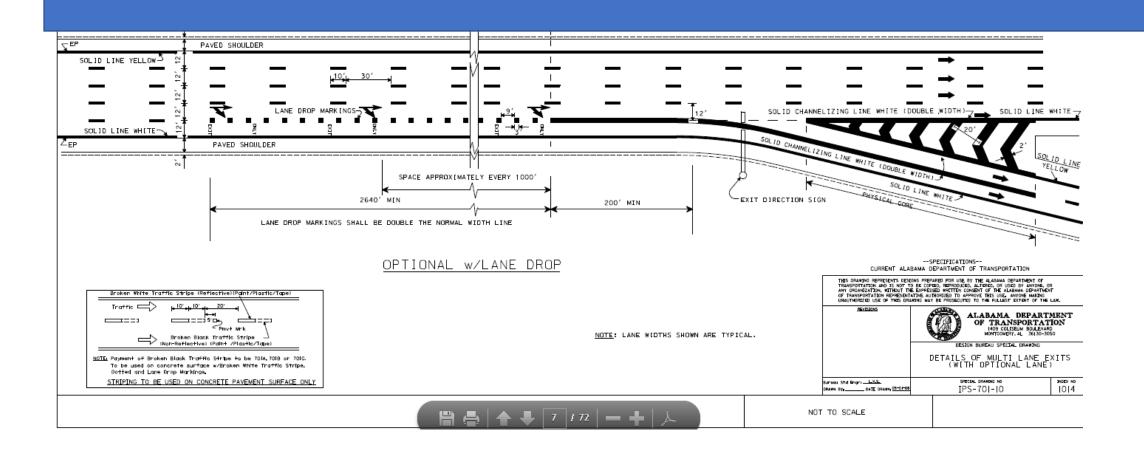
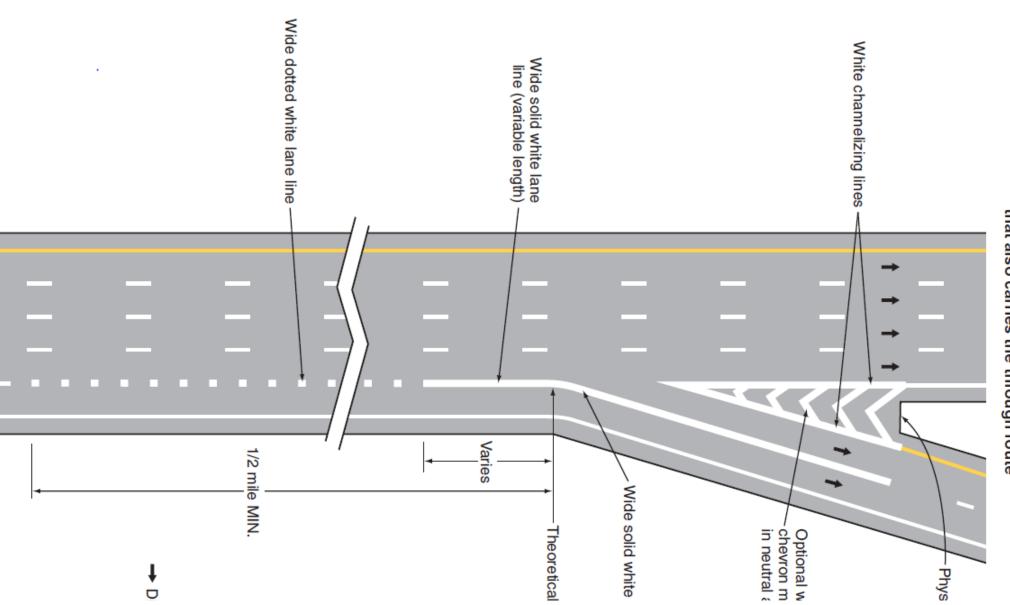
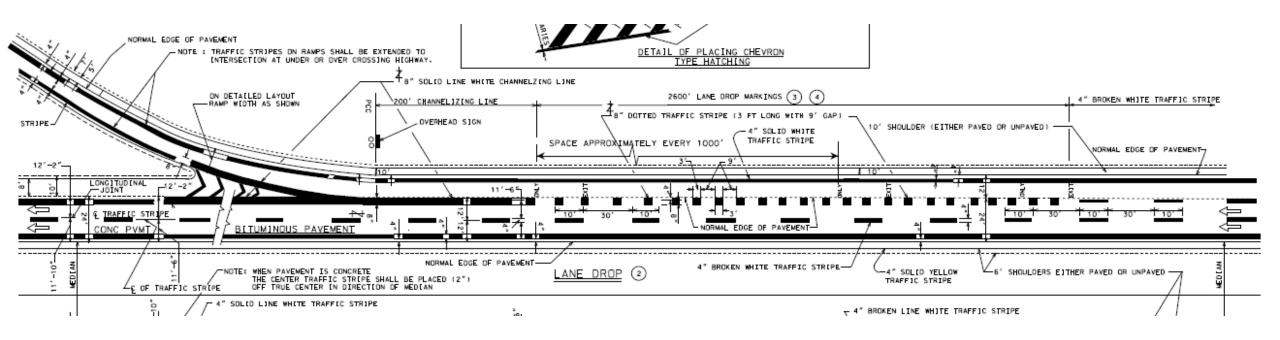


Figure 3B-10. **Examples of Applications of Freeway and Expre** Lane-Drop Markings (Sheet 2 of 5)

Lane drop at a multi-lane exit ramp having an optional exit lane that also carries the through route

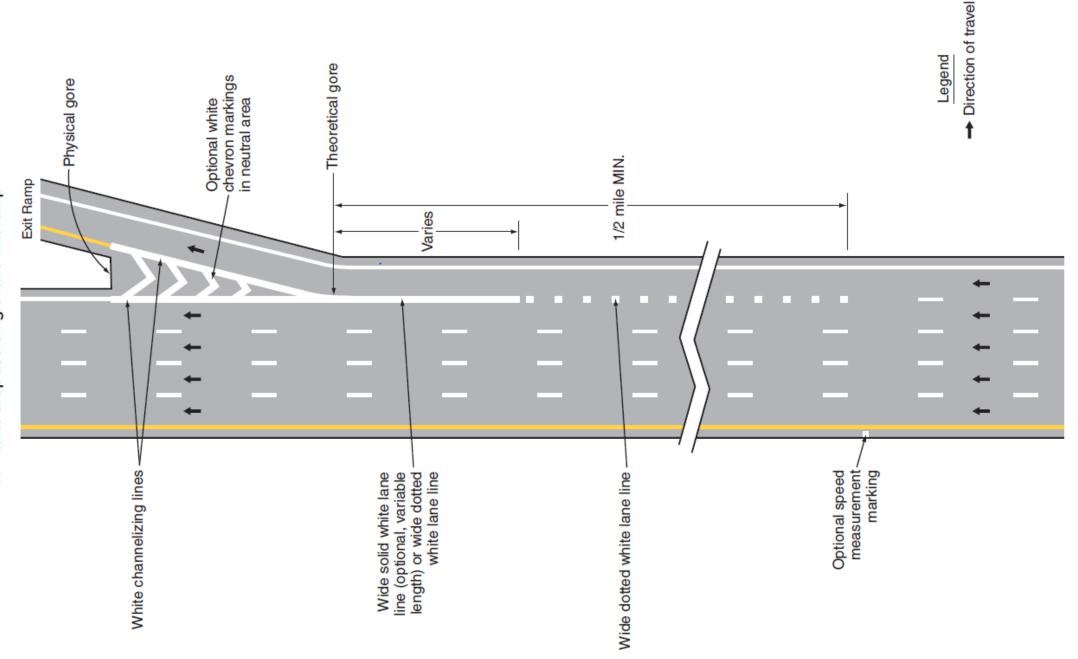




Index 1013

Examples of Applications of Freeway and Expressway Lane-Drop Markings (Sheet 1 of 5) Figure 3B-10.

A – Lane drop at a single lane exit ramp



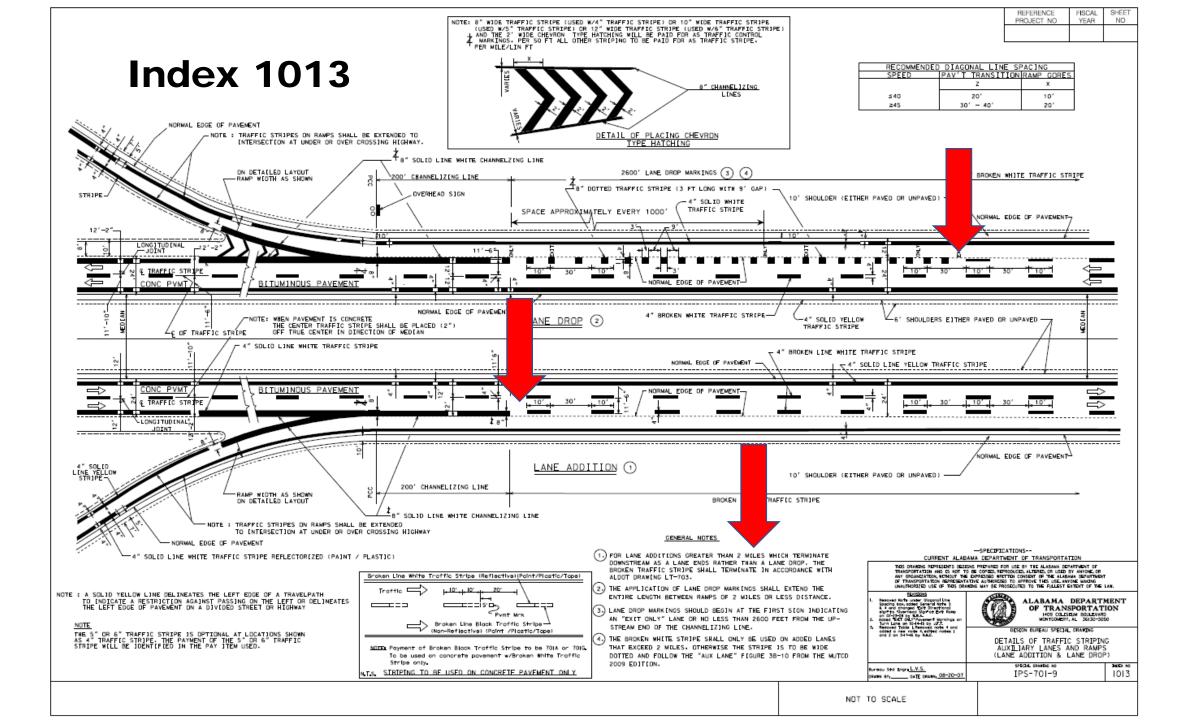
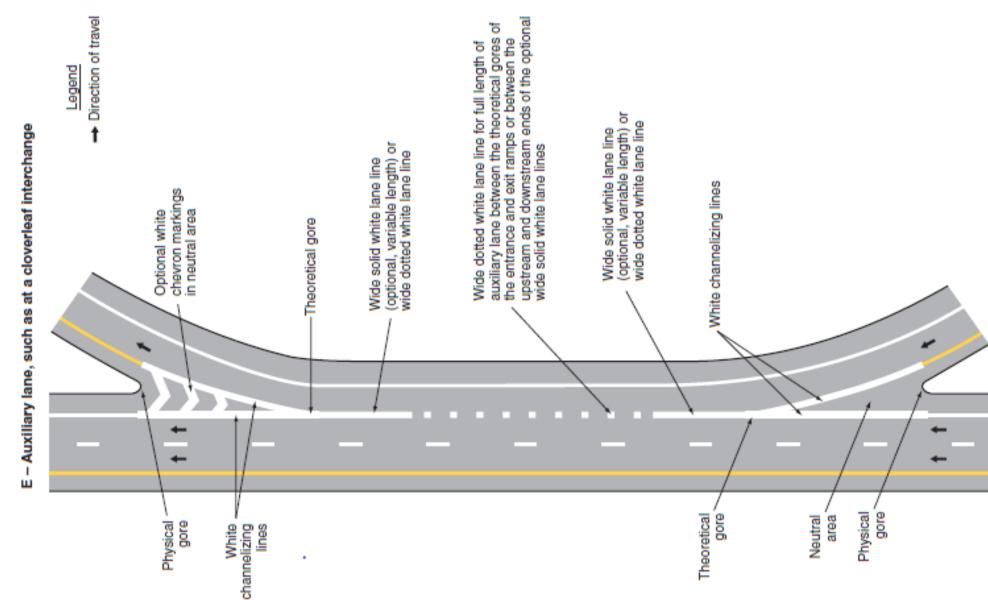
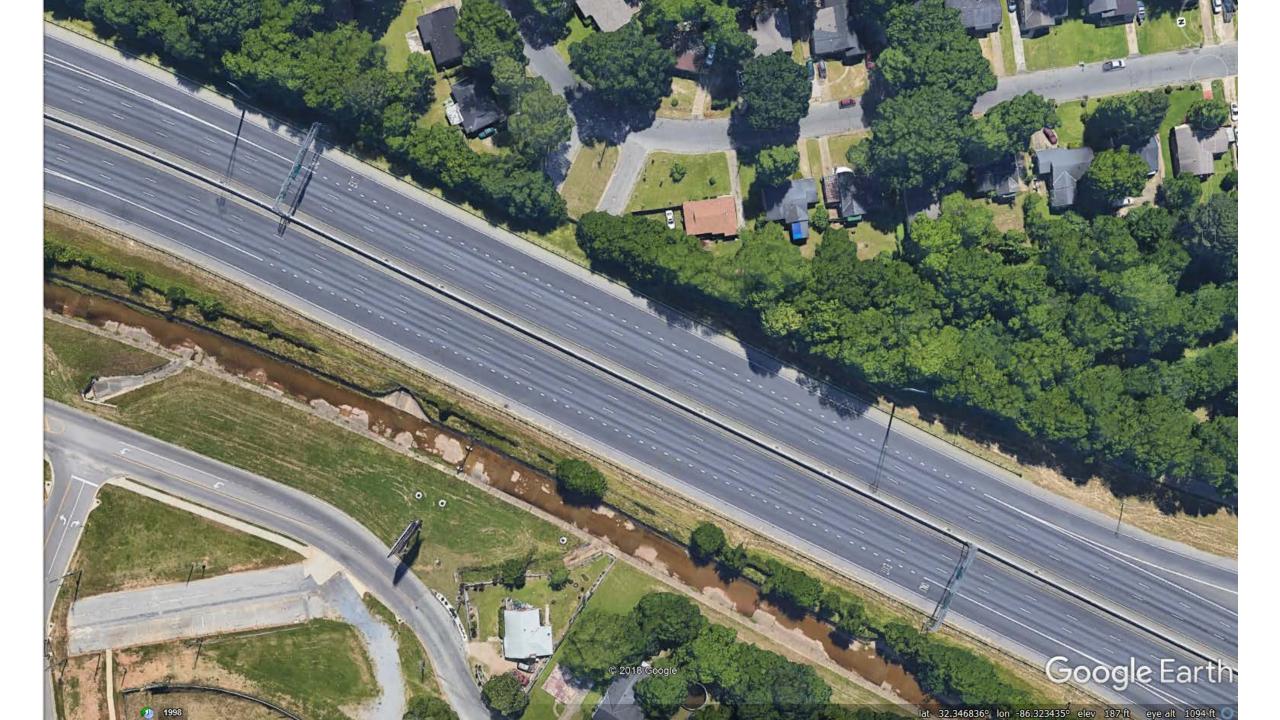


Figure 3B-10. Examples of Applications of Freeway and Expressway Lane-Drop Markings (Sheet 5 of 5)

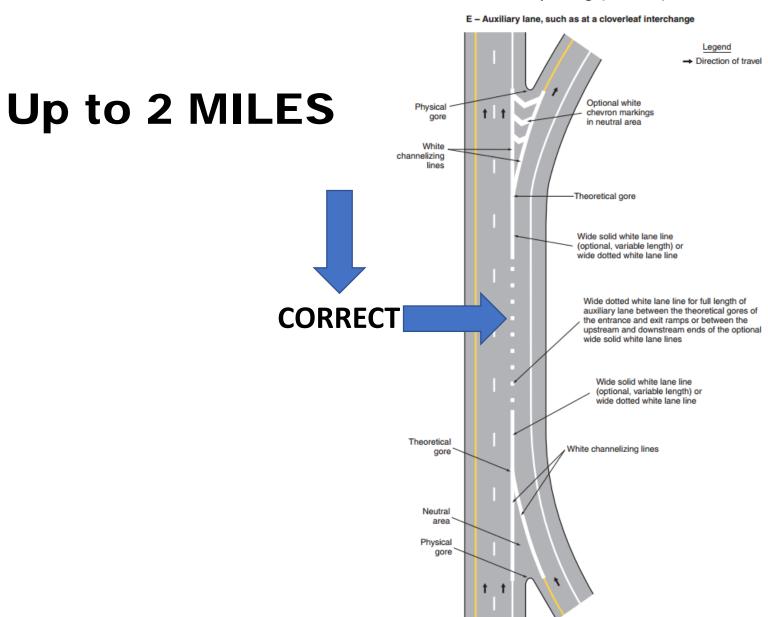




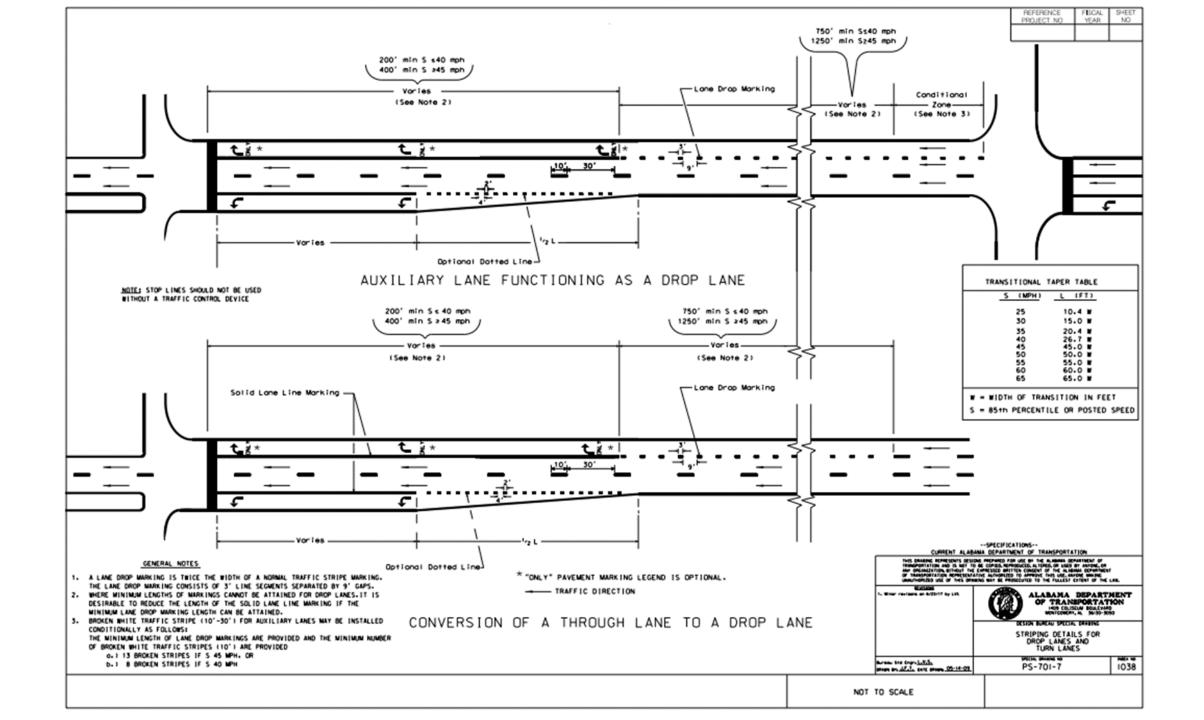
2009 Edition Page 367

Figure 3B-10. Examples of Applications of Freeway and Expressway

Lane-Drop Markings (Sheet 5 of 5)

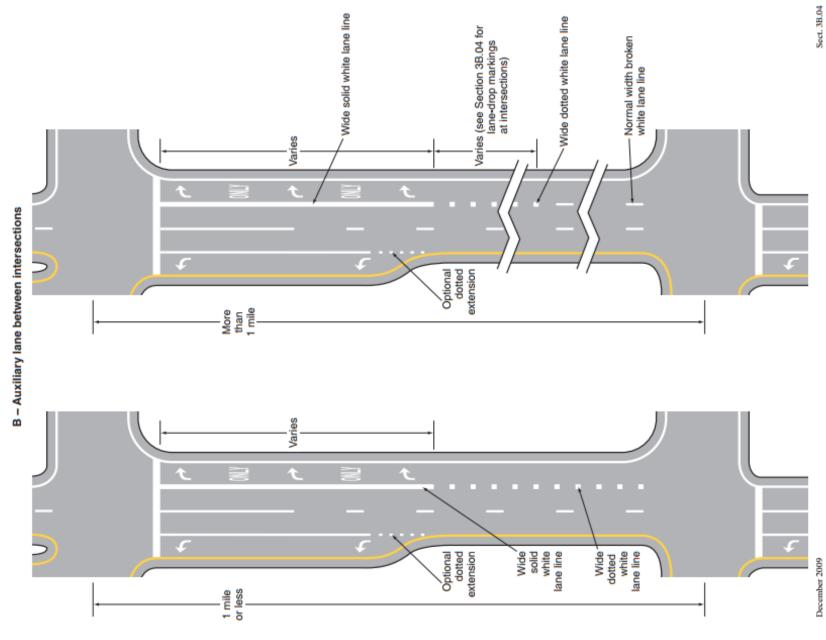


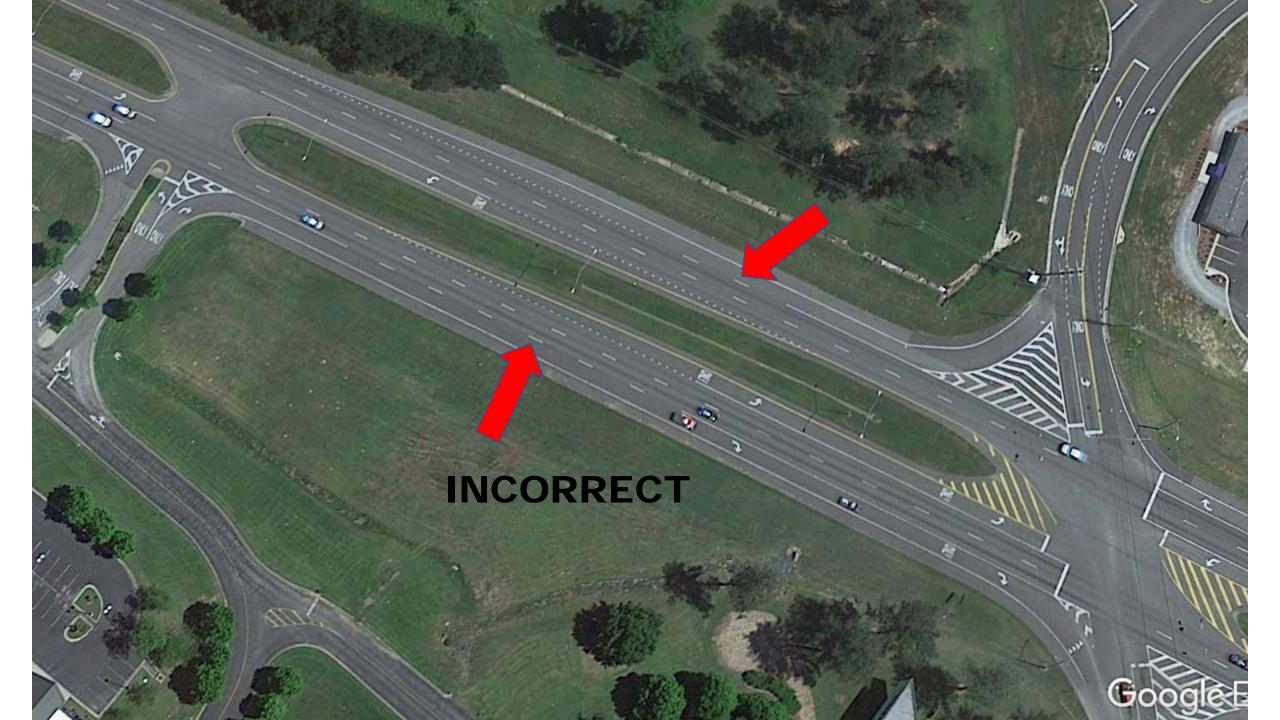




Page 369 2009 Edition

Figure 3B-11. Examples of Applications of Conventional Road Lane-Drop Markings (Sheet 2 of 2)





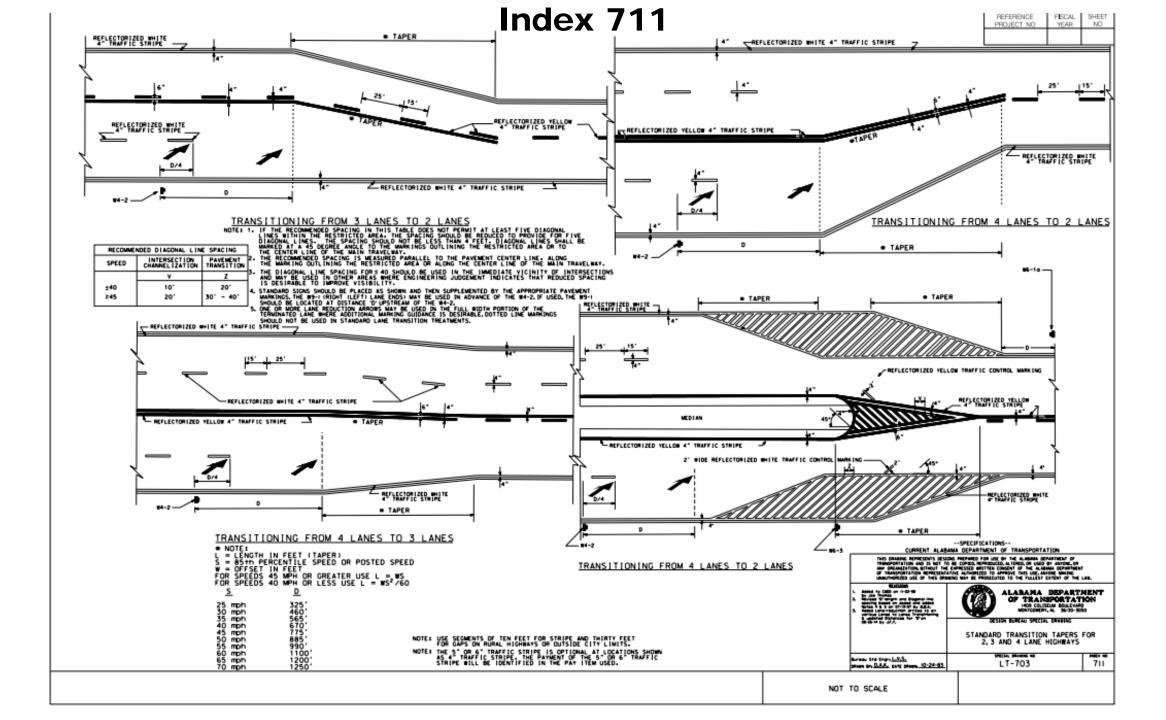


QUESTION

- According to MUTCD Standards, what are the ONLY 2 types of permissible stripe to use in an acceleration or deceleration lane???
- ANSWER: dotted and solid

Lane reductions

- Standard has been constant since 1940s!
- Same principles apply for <u>ALL</u> roadways



2009 Edition Page 375

Figure 3B-14. Examples of Applications of Lane-Reduction Transition Markings

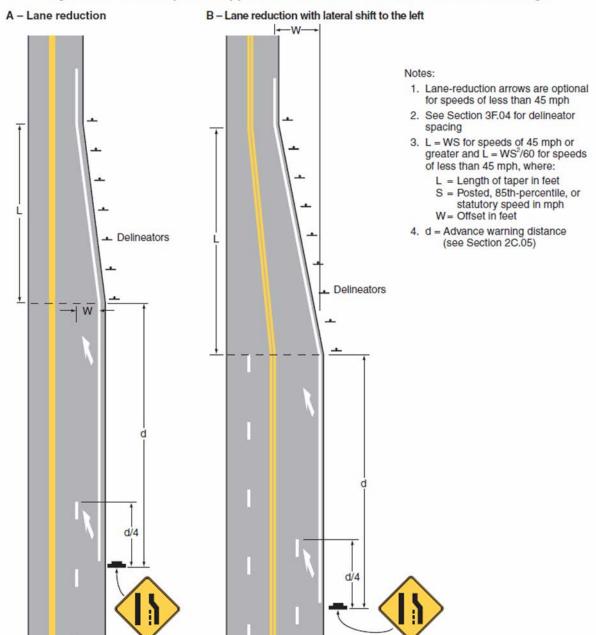
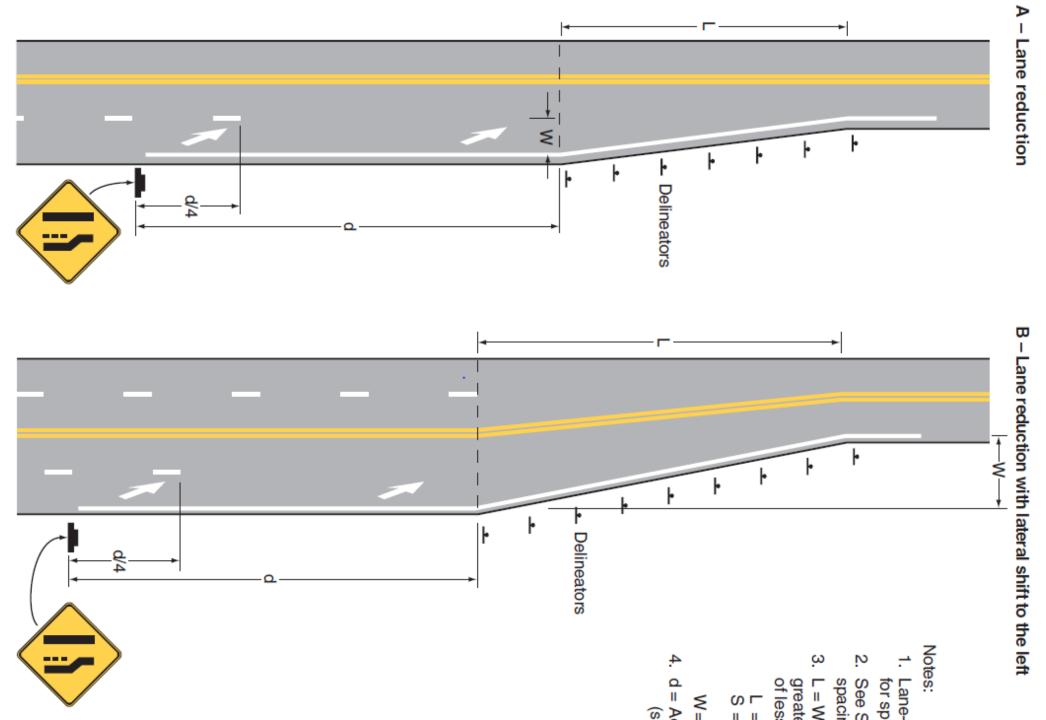
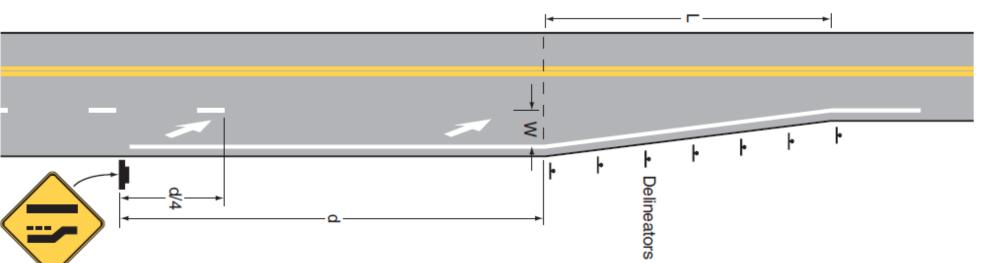
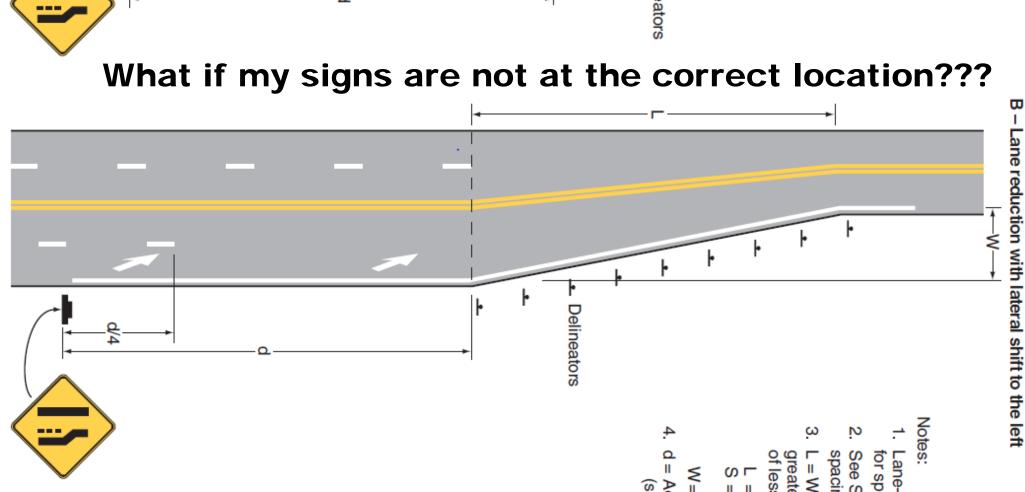


Figure 3B-14. **Examples of Applications of Lane-Reduction Tran**





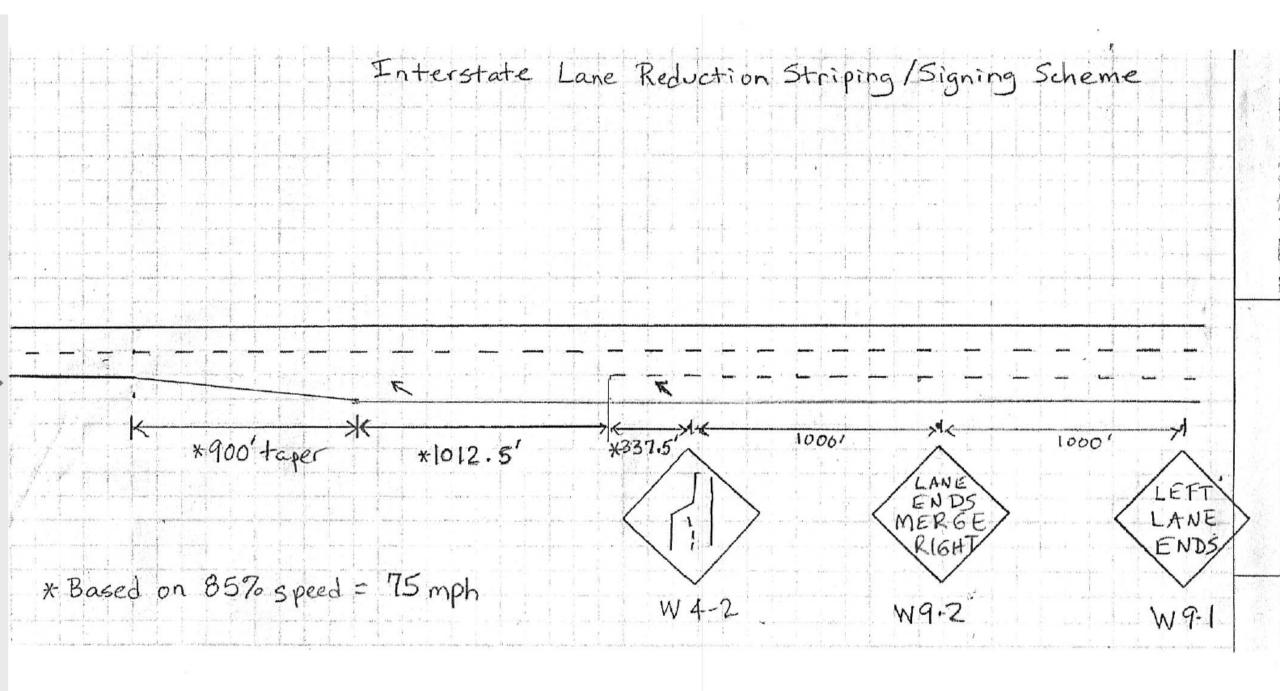


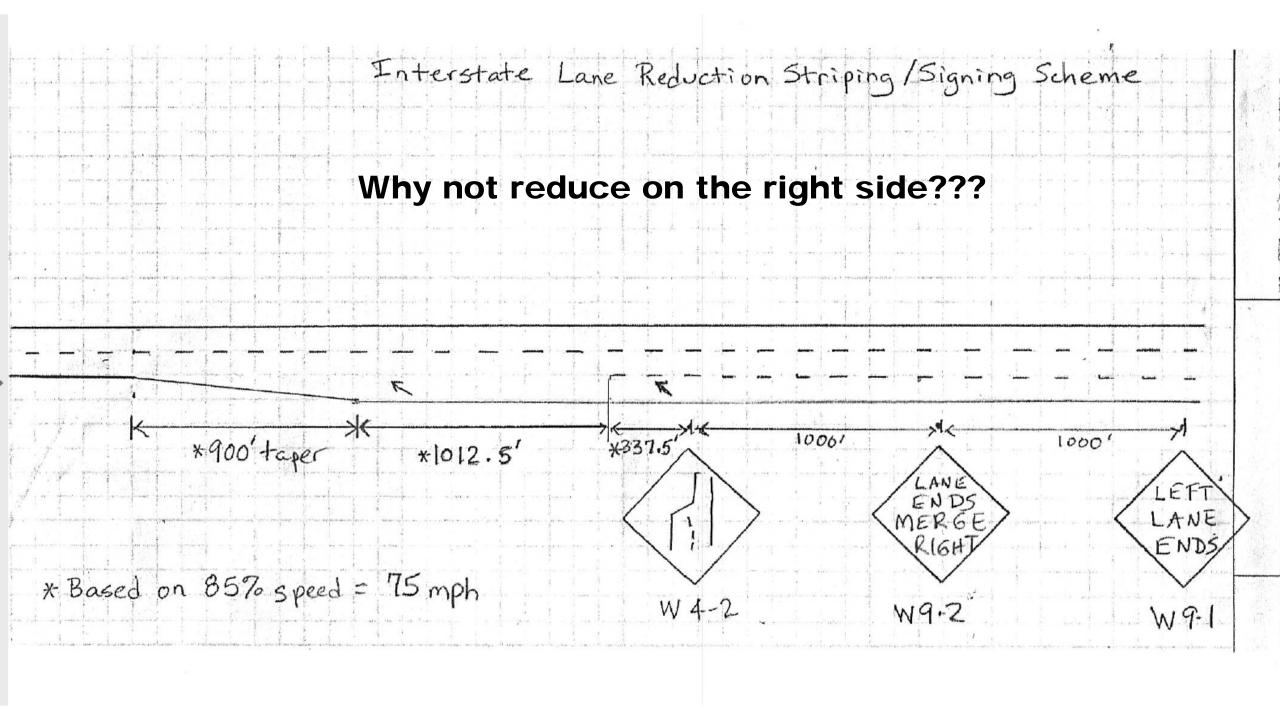








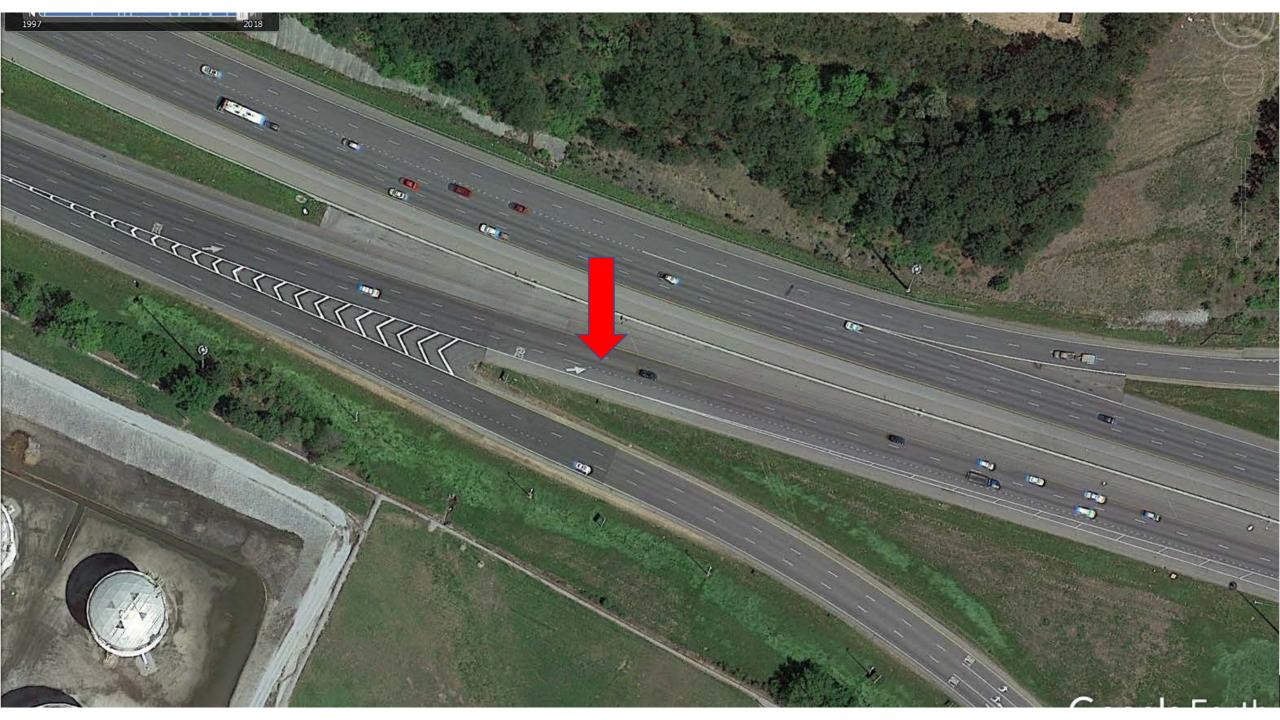




Correct lane reduction markings

- I-65 NB at mp 290, Blount County
- I-85 NB at mp 10, Montgomery County
- I-20 EB at mp 188, Calhoun County
- I-20 WB at mp 205, Cleburne County
- I-20 EB at mp 214, Cleburne County (Georgia line)
- I-20 WB at mp 173, Talladega County????
- I-65 NB at mp 182, Elmore/Autauga Counties? TBD





Get it right the first time!





Upcoming striping changes???

- New MUTCD in 2020???
- Unlike 2009 edition, little if any change to these standards....
- Except these potential new standards:

Potential new standards

- 6" wide stripes for certain roadways (Interstates, high speed roadways {>40mph})
- Chevrons in all gores

What YOU need to do:

- Assume your striping is rong! (or at least non standard)
- Have an open mind to doing it DIFFERENTLY
- Consult standard drawings and MUTCD

What YOU need to do:

- Consult with Area Traffic Engineer
- Don't resist intervention
- If all else fails, contact Maintenance Bureau Traffic Operations

What YOU need to do:

- STOP using any source besides our standards!
- Get it right WITH EACH LAYER!

Questions???



Points of Emphasis

Striping

- 4 CIMs over last 2+ years
 - 5-2017
 - 8-2018
 - 8-2018 Follow-up
 - 1-2019
- Despite the emphasis, still struggling
- Can't afford to mess up the wearing surface
- Plan what to do and communicate prior to!!!
- Kerry will elaborate tomorrow

T CAN USPORTO LIGHT THIS SOUTH

AL.	RPF-IMF-1065 (467)	2017	31
STATE	REFERENCE PROJECT NUMBER	FISCAL YEAR	SHEET NO.

				REMARKS												(4.0
				NUMBER				10 0	40,000	A.B.C.D.E	40.00		A.C.D.E.J.K.L	ACREIX		
	TEM NO.	7010-12	SOLID YELLOW, CL. W	TYPEA	STRIPE	factor c)		587 60		1 120000	944 AD	And to			2000	7.17
	TEM NO.	70103-148	SOLID WHITE,	TRAFFIC	(S'WIDE)		I L	580.00	200	Section	1277.00				2277	3 1000
CATREME	TEM NO.	751-5-10/	350	TRAFFIC		120		580.00	90,000	20000	677.00				4834	
REQUIRED TRAFFIC STRIPING	TEM NO.	JOS-CILO.	DOTTED CL 2 TYPE A	TRAFFIC	(S. WDE)	100	1 2 2 3 1				12/38.06	25.00.00		2545,00	17218	
N C	THEM NO.		CLW TYPEA	STRIPE	(5' WEDE)	14 4	7,377				273.00				273	
	TOTA 229			TRAFFIC	(STANDE)	12		12.43	12.44		3.75			#	.kı	-
	TOTA 230	l	SOLID YELLOW		(5° WADE)	1	******	12v4:	12.41		3.02	0.52	630	7,500	8	
	TOTA-227		SOLD WHITE	STRPE	(5" W(DE)	ME	12.61	14.71	12,41	96.7	440	133	40.7		32	
			LOCATION	ATTENDED NO.	22-4162		ACINA I CALLOS LAGON		SOUTHBOUND LANES	EXT 340 MT FROM ANGE		EXT 347 INTERCHANGE	EXIT 351 INTERCHANCE		T&101	

QUANTITIES

SUMMARY

	TIPE OF	KELUIKED LEMPORARY STRIPING & STRIPE RENOVAL	KAKY SIRIP	NG & STREET	REMOVA	
	701C-000	TEM NO. 7010:001.	TEM NO. 703H-002	TOH-407		
LOCATION	BROKEN TEMPORARY	SOUD TEMPORARY	SOLID TRAFFIC STRIPE	BROKEN TRAFFIC STERE	DRAWING	REMARKS
	STRIPE	STREE	REMOVED (TAPE)	REMOVED		
		MILE	比到	I WE	,-p	
NORTHBOUND LANES	52.07	124,13	1160,00	580.00	BCDE	
SOUTHBOUND LANES	62.07	124.13	1160,00	580.00	EC.DE	
EXIT 340 INTERCHANGE	4.64	28,19	2161.00	944,00	COETKI	
EXT 347 INTERCHANGE		7.77			SDEJK!	
EXT 351 INTERCHANGE	. 0.15	7.77			C.D.E.J.K.L	
TOTAL	129	293	4481	2401		

		REQUIRE	DMARKINGS	S, LEGENDS,	& PAVEMEN	REGLIRED MARKINGS, LEGENDS, & PAVEMENT MARKERS		
obarbic cores	TEM NO. Tera-ooz	17EM NG. 7038-002	ITEM NO. 705A-030	TOSA 031	TOSA-032	1703D-001		
LOCATION	MARKINGS CLASS 2 TYPE A	LEGENDS CLASS 2 TYPE A	PAYEMENT NARKERS, CLASS A.H. TYPE 2-E	PAVENENT MARKERS, CLASS A.H. TYPE I.A.	PAVEMENT MAHKERS, CLASS A.H. TYPE 1-B	TEMPORARY TRAPFIC CONTROL MARKINGS	DRAWING NUMBERS	REMARKS
2.00	SOFT.	SOFT	HOM	ECH	FACH	SOFT		
NORTHBOUND LANES			\$19.3				0	
SCUTHBOUND'LANES			819,3				n,	
EXIT 340 INTERCHANGE	3861.24	134.46	493.6	1135.0	287.8		A.C.E.F.G.H.I	
EXIT 347 INTERCHANGE	2251.08	13.6B	244.5	481.2	135.2	158.0	A.C.E.F.G.H.I	
EXIT 35) INTERCHANGE	1735.36	73.44	134.5	500.2	119.5	168.0	A.C.E.F.G.H.J	
POTAL	7868	289	25:52	7147	5453	324		
			·					

ON Records Plans July 28,2017 STATE REFERENCE PROJECT NUMBER FISCAL YEAR SHEET NO. AL • RPF-IMF-1065 (467) 2017 RAMP TRAFFIC STRIPE SCHEDULE EXIT REOD DOTTED ENTIRE LENGTH MATCH EXISTING ____ 70F ACCEL LANE STA 86+40 TO STA 72+83 REOD DOTTED ENTIRE LENGTH OF ACCEL LANE STA 72+93 TO STA 89+94 MATCH EXISTING I - 5651-565 REGO BROKEN < EXISTING BROKEN BETWEEN LT TWO LANES, (RETAIN ON RAMP) DOTTED FOR RT REGD DOTTED ENTIRE LENGTH OF -EXISTING BROKEN BOTH ACCEL LANES (RETAIN) STA 44+25 REQUIRED DOTTED (EXISTING BROKEN) STA 21+80 *SEE SHEET 10 FOR RAMP LAYOUT



KAY IVEY

ALABAMA

DEPARTMENT OF TRANSPORTATION

CONSTRUCTION BUREAU 1409 COLISEUM BOULEVARD, G-101 MONTGOMERY, ALABAMA 36110 PHONE (334) 242-6208

FAX (334) 264-3727

May 1, 2017



JOHN R. COOPER TRANSPORTATION DIRECTOR

Construction Information Memorandum No. 5 – 2017

TO:

Region Engineers

ATTN:

Region Preconstruction and Area Operations, Construction, and

County Transportation Engineers

FROM: Winston J. Powe, P.E.

State Construction Engineer

RE:

Layout of No-Passing Zones

Subarticle 701.03(j) the Standard Specifications for Highway Construction outlines the requirements for the Engineer to set the limits of no-passing zones for the placement and location of the required traffic stripe items. On the typical "construction" project, this is done on the Paving Layout, Striping & Signage Sheets or the Striping Details Sheets. However, on resurfacing projects, this is normally handled by the Project Manager and his/her staff marking the limits using the existing striping while accounting for changes in the sight distance or by using engineered studies indicated in a striping layout book on file typically at the District Office or with the Area Traffic Engineer. The procedures for performing this layout work are outlined in Article 2:4:A of the Construction Manual, specifically the Engineering requirements for PROJECT CONSTRUCTION (TRAFFIC CONTROL): Traffic Stripe, Markings & Legends & Pavement Markers on Sheet 2-132.

It has come to our attention that project notes are being included in some plans requiring the Contractor to check and set the limits of all no-passing zones in addition to other controls required to place the stripe with this required work being performed as a subsidiary obligation of the striping items. Another form of the note requires the Contractor to reference the location of the existing stripe and then re-stripe based on the reference. Subarticle 105,04(a) outlines that the plans govern over the Standard Specifications, but the requirements in Subarticle 701.03(j) and Article 2:4:A specifically direct the Engineer to perform such layout work. Plainly stated, it is our responsibility. Furthermore, the Contractor's Liability Law allows them certain legal protection for the work performed during the project once the project is completed. By placing the engineering layout of the traffic striping on the Contractor, this is making him responsible for a design or engineering functionality, and thus, placing him at risk after the project completion and Department acceptance. This is undue risk that the Contractor should not be exposed to for work that we, the Department, are required to do. Because of that risk, this matter has been discussed with the industry liaison committees, and the Department has agreed to cease such practice. While we have been trying to handle on a case-by-case basis during our Final Construction Plans Review, the time has come to place a Department-wide emphasis on the requirements of the Standard Specifications and the Construction Manual, Therefore, effective

with the May 26, 2017 letting, no project notes requiring the Contractor to perform layout of the no-passing zones shall be allowed in the plans.

Moreover, many times on our resurfacing projects, we simply restripe the roadway as it was prior to the project work. However, conditions along the roadway and ROW, as well as off ROW, change through time that affect the sight distance and how the striping and pavement markings and legends should be placed in order to conform to the applicable and current details in the Department's *Standard and Special Drawings for Highway Construction*. Designers and project personnel should review the details in Index No. 806 for as well as those on Index Nos. 711, 715, 737, 913, and 1005-1041 to ensure they are familiar with the current requirements. Project plans and field layout work should reflect these drawing details, and since these details are revised annually, Contractors cannot simply restripe based on the existing since the requirements have changed.

Please utilize these references to ensure the plans and field engineering required by the Engineer are performed as required and ensure that your Project Managers, Area contract administration personnel, and most importantly, your designers, are familiar with this CIM.

WJP

pc: Mr. George Conner

Mr. Don Arkle

Mr. William Adams

Mr. Steve Walker

Mr. Terry McDuffie

Mr. Clay McBrlen

Mr. Ed Phillips

Mr. Terry Robinson

Mark Bartlett, FHWA

Alabama Road Builders Association

Alabama Asphalt Pavement Association

Alabama Bridge Contractors Association

CIM File



ALABAMA DEPARTMENT OF TRANSPORTATION

CONSTRUCTION BUREAU 1409 COLISEUM BOULEVARD MONTGOMERY, ALABAMA 36110 PHONE (334) 242-6208



Key Ivey GOVERNOR

John R. Cooper TRANSPORTATION DIRECTOR

September 7, 2018

Construction Information Memorandum No. 8 - 2018

TO:

Region Engineers

ATTN:

Area Operations, Construction, Materials, and Local Transportation Engineers

FROM:

Winston J. Powe, P.E.

State Construction Engineer

RE:

Proper Layout and Application of Striping, Markings, and Legends

The purpose of this CIM is to call attention to the need for appropriate Department personnel to review all applicable standard and special drawings, plan sheets, and specification requirements regarding the placement of striping, markings, and legends prior to allowing the Contractor to begin work on these items.

Construction and Maintenance Bureau staff members met recently to discuss concerns from striping subcontractors regarding corrections having to be made after their work was accomplished, along with additional work being requested after their crews had demobilized. As we do more night paving work, it is critical to pre-communicate so that we do not place errant stripe on our new pavement. Some specific issues that the industry is having involves lane drop markings, edge line adjacent to curb and gutter sections, shields on interstates, and bicycle symbols. While these situations are not entirely avoidable, we request that every effort be made by Project, District, and Area personnel to be satisfied and in agreement with the manner in which a subcontractor intends to accomplish his work prior to that work beginning. We have also reminded the subcontractors that they bear responsibility to give early notification (through the prime) of when they intend to arrive at the project site so Department personnel will have sufficient time to visit the site and review striping plans, drawings, etc.

Particularly noteworthy in this matter is the use of Google Earth imagery for re-striping purposes. Personnel should be reminded of CIM 5-2017 and the fact that existing striping, markings, and legends may no longer conform to current standards.

The Department is looking into ways to better denote or depict on the plans the layout and quantities for striping, legends and markings. This may be in the form of more detailed striping layout sheets, box sheets, or updates to standard and special drawings.

Please ensure your inspection personnel are familiar with these issues.

WJP/JLB/jlb

pc: Mr. George Conner, PE

Mr. Stacey Glass, PE AAPA

Mr. Steve Walker, PE

FHWA

ARBA ACEA

CIM File

ALBCA

ACIA



KAY IVEY GOVERNOR

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DEPARTMENT OF TRANSPORTATION

CONSTRUCTION BUREAU 1409 COLISEUM BOULEVARD, G-101 MONTGOMERY, ALABAMA 36110

PHONE (334) 242-6208 FAX (334) 264-3727

December 5, 2018



JOHN R. COOPER TRANSPORTATION DIRECTOR

MEMORANDUM

TO:

Region Engineers

Region Pre-Construction & Area Operations, Construction, & Local Transportation Engineers

FROM: Winston J. Powe, P.E.

State Construction Engineer

RE:

Plan Needs for Traffic Striping, Dotted, Markings, and Legends

Follow-up for CIM 8-2018

In general, plans for construction projects include Striping & Signage Sheets, but plans for resurfacing and other maintenance-type projects only include Box Sheets with a summary of striping items and quantities and no specific location information. It is these type projects that have posed the layout and application issues addressed in CIMs 5-2017 and 8-2018.

As a follow-up to CIM 8-2018, we have been reviewing various plans and details and communicating with industry representatives on how to better depict the layout and quantities for striping, markings, and legends on the plans. Since the Department is responsible for layout of No-Passing Zones, that relieves much of the need for Striping & Signage Sheets. However, the Department continues to have issues with the proper layout and application of Lane Drop Markings. Because of this, the impact it has on our striping "message" to the traveling public, and the problems that corrective measures can have on our new wearing surfaces, more information is needed in our plans for the location of these Markings. From our reviews and communication efforts, it appears the simplest means of doing this is including location and quantity information in Box Sheets like we do for other pay items. An example of such is attached. Please utilize this type of example in your future resurfacing plans. You may also include it for your plans for construction projects to summarize what is shown on the Striping & Signage Sheets.

In addition, one of the issues addressed in CIM 8-2018 for shields on the interstates and bicycle symbols needs additional emphasis and guidance. These markings, along with those for shared lanes and handicap pavement, are shown on Special Drawing No. TCM-703 (Sheet 2 of 2) Index 1049, and all are listed as "Specialty Traffic Control Markings". Item 703.03(c)3. of the Standard Specifications references the use of details in the Special Drawings or the plans, and Subarticle 703.05(b) lists the pay items for this work as 703H000 Specialty Traffic Control Markings. However, there has been conflict in some plans using the normal 703A items for Traffic Control Markings where they were supposed to use 703H000. Please remind your designers and project managers that these details are part of the plans by TCM-703 being included on the Index to Special and Standard Drawings Sheet in the front of the plan set. A project note that attempts to pay for these markings as part of the normal 703A Traffic Control Markings item conflicts with this Special Drawing, which is part of the plans. Thus, the plans are in conflict, and we will end up having to add Item 703H000 by supplemental agreement. Instead of having to do a change order, we need to ensure Item 703H000 is set up in the plans when these details are required.

With our traffic volumes steadily increasing each year on our highways, it is imperative that our traffic striping, markings, and legends be installed properly and consistently to send a uniform message. Since we are down to a limited number of striping contractors trying to cover the whole state, it is also imperative we communicate this uniform message in our plans and contracts so that we get the project striped correctly the first time and minimize delays, re-work, and change orders trying to determine what is required by the Special Drawings.

Please ensure that all personnel designing and managing your construction projects are familiar with this matter.

WJP

Attachment

ne: N

Mr. George Conner

Mr. Stacey Glass Mr. Ed Phillips

Mr. Clay McBrien ARBA ALBCA

ACEA

Mr. Don Arkle

Mr. Steve Walker

Mr. Terry Robinson

Mark Bartlett, FHWA

AAPA ACIA

CIM File

Plan Needs for Traffic Striping, Dotted, Markings, and Legends Follow-up for CiM 8-2018 Example Box Sheet

				REQUIRED TRAFFIC STRIPE	AFFIC STRIPE	•			
	701A-227	701A-230	701A-239	701B-063	7018-207	701C-000	701C-001		
LOCATION	SOLID WHITE, CLASS 2, TYPE A TRAFFIC STRIPE (5" WIDE)	SOLID YELLOW, CLASS 2, TYPE A TRAFFIC STRIPE (5' WIDE)	BROKEN WHITE, CLASS 2, TYPE A TYPE A TRAFFIC STRIPE (5" WIDE)	DOTTED, CLASS 2, TYPE A, TRAFFIC STRIPE (LANE DROP 10" WIDE)	DOTTED, CLASS 2, TYPE A, TRAFFIC STRIPE (5" WIDE)	BROKEN TEMPORARY TRAFFIC STRIPE	SOLID TEMPORARY TRAFFIC STRIPE	SPECIAL OR STANDARD DRAWINGS	REMARKS
	MILE	MILE	MILE	FNI	토롱	MILE	MILE		
1-65	26.16	26.16	51,77			103.54	104.64		
1-65 MP 9,1000-MP 11,050 NB				10296.00					Outside Aux, Lane Between Exit 9 & 11
1-65 MP 13.025-MP13.517 SB				2600.00					Outside Aux. Lane
Exit 11 NB On Ramp Accel Lane					1120.00			E.F.G.H.I.L	
Exit 13 SB On Ramp Accel Lane					1325.00				
RAMPS	3.17	3.17	0.03		183.00	0.07	12.66		
CROSSROADS	2.07	2.09		695.00	454.00		8.32		
TOTAL	32	32	52	13591	3082	104	126		



ALABAMA

DEPARTMENT OF TRANSPORTATION

CONSTRUCTION BUREAU 1409 COLISEUM BOULEVARD MONTGOMERY, ALABAMA 36110 PHONE (334) 242-8208



John R. Cooper TRANSPORTATION DIRECTOR

Kay Ivey GOVERNOR

May 21, 2019

Construction Information Memorandum No. 1 - 2019

TO:

Region Engineers

ATTN:

Region Pre-Construction & Area Operations, Construction, and

Local Transportation Engineers

FROM:

Winston J. Powe, P.E.

State Construction Engineer

RE:

Handicap/Disability Pavement Markings

There have been recent discussions between the Construction, Design, and Maintenance Bureaus over the use of the color blue for parking spaces and symbol background for handicap/disability pavement markings. The purpose of this CIM is to clarify the requirements of the Department and MUTCD.

It is common to see blue used for the lines of parking spaces and symbol background in parking areas of private businesses. In addition, the Department has on occasion either required a blue background as a preference or has referenced the use of a blue background in project notes. The Department has also striped parking spaces at welcome centers and rest areas with blue lines.

Page 387 of the 2009 MUTCD (partial page shown below) mentions blue lines and background, but only in the context of being supplementary or optional. Special Drawing Index No. 1049 (partial sheet shown below) does not require a background at all, but simply states under General Note #4 that "...all legends and markings shall be white in color unless otherwise noted on detail."

Based on this guidance and in order to provide consistency for the traveling public, the use of the color blue for lines of parking spaces, symbols, and background for handicap/disability pavement markings shall be discontinued immediately on all projects and at all ALDOT facilities.

WJP/JLB/jlb Attachments

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Mr. Ed Phillips, PE

ARBA ACIA Mr. Don Arkle, PE Mr. Stacey Glass, PE

Mr. Clay McBrien, PE

AAPA

ACEA

Mr. William Adams, PE

Mr. Scott George, PE FHWA

ALBCA

2009 Edition

Page B&T

Орибона

Blue lines may supplement white parking space markings of each parking space designated for use only by persons with disabilities.

Support:

Additional parking space markings for the purpose of designating spaces for use only by persons with disabilities are discussed in Section 38.20 and illustrated in Figure 3B-22. The design and layour of accessible packing spaces for persons with disabilities is provided in the "Americans with Disabilities Act Acresibility Guidélines (ADAAG)" (see Section 14.11).

Section JB.20 Pavement Word, Symbol. and Arrow Markings

SHERVORE

Word, symbol, and arrow markings on the parement are used for the purpose of guiding, warring, or regulating traffic. These parement markings can be helpful to roud users in some locations by supplementing signs and providing additional emphasis for important regulatory, warning, or guidance messages, because the markings do not require diversion of the road user's attention from the roadway surface. Symbol messages are preferable to word messages. Examples of structured word and arrow pavencent markings are shown in Figures 3B-23 and 3B-24.

Figure 3B-22, International Symbol of Accessibility Parking Space Marking



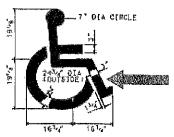
& Stroke width: Minimum = 3 inches Special = 4 inches

Note: Blue background and white border are optional



米 GENERAL NOTES

- I, ALL LEGENCS AND MARKINGS SHALL CONFORM TO THE MUTCO.
- THE AREA SHOWN FOR WARKINGS AND LEGENCY ARE APPROXIMATE AND ARE PROVIDED FOR ESTIMATING AND PAYMENT PURPOSES.
- 3. THE FIRST TURN LANE LEGENO SHALL BE LOCATED ADJACENT TO THE BEGINNING OF THE SPEED CHANGE LANE LINE.
- 4. ALL LEGENDS AND MARKINGS SHALL BE WHITE IN COLOR UNLESS OTHERWISE MOTED ON CETAIL.
- 8. ALL LETTERS OF THE ALPHABET AND NUMERALS SHALL BE CLASSIFIED AS LEGENDS, ALL OTHERS SHALL BE CLASSIFIED AS MARKINGS, UNLESS OTHERWISE NOTED AS "SPECIALTY TRAFFIC CONTROL MARKINGS".



AREA 2.36 SO FT

HANDICAP PYMT MARKING SYMBOL "SPECIALTY TRAFFIC CONTROL MARKINGS"

177

LANE REDUCTION AREA 42,25 SO FT

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PAVENET LEGENOS
AND MARKINGS

VEDL HING IN TCM-703 (SHEET 2 OF 2)

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