



**ALABAMA DEPARTMENT OF TRANSPORTATION  
CONSTRUCTION BUREAU**

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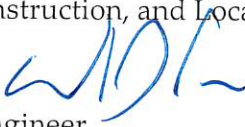


Kay Ivey  
Governor

John R. Cooper  
Transportation Director

December 30, 2019

**Construction Information Memorandum No. 8 - 2019**

TO: Region Engineers  
ATTN: Region Preconstruction Engineers  
Area Operations, Construction, and Local Transportation Engineers  
FROM: Winston J. Powe, PE   
State Construction Engineer  
RE: 2020 Standard Drawing Changes  
Details of Reflectorized Markings to be used on Mainline and Ramps

Please see the attached October 21, 2019 memorandum from the Design Bureau addressing the re-numbering of standard drawings and drawing revisions. Although there have been numerous revisions, we wanted to draw attention to the following two changes.

**Index Number 70507, Drawing PM-705-3, Sheet 1 of 2**

Two wrong way arrows outlined with raised pavement markers are now shown as required on mainline exit ramps.

**Index Number 70508, Drawing PM-705-3, Sheet 2 of 2**

The raised pavement markers outlining lane use arrows on mainline have been omitted from the drawing and should no longer be used. The arrows are still required.

Copies of each drawing are attached for your review.

In light of our ongoing interstate and other divided highway resurfacing projects, Regions are encouraged to utilize these drawings on our active projects so as to expedite implementation. If the appropriate pay items are not in the contract, please add by Supplemental Agreement.

Please ensure that all personnel designing and managing your construction projects are familiar with these changes.

WJP/JLB/jlb

Attachments

- |     |                       |                        |                       |
|-----|-----------------------|------------------------|-----------------------|
| pc: | Mr. George Conner, PE | Mr. Don Arkle, PE      | Mr. William Adams, PE |
|     | Mr. Steve Walker, PE  | Mr. Terry McDuffie, PE | Mr. Ed Phillips, PE   |
|     | Mr. Clay McBrien, PE  | Mr. Stacey Glass, PE   | Mr. Scott George, PE  |
|     | FHWA                  | ARBA                   | AAPA                  |
|     | ALBCA                 | ACIA                   | ACEA                  |
|     | CIM File              |                        |                       |



## INTERDEPARTMENTAL MEMORANDUM

ALABAMA DEPARTMENT OF TRANSPORTATION  
1409 Colliseum Boulevard, Montgomery, Alabama 36110

October 21, 2019.

**TO:** Region Engineers  
Quality Control Engineer  
Construction Engineer  
Local Transportation Engineer  
Maintenance Engineer  
Bridge Engineer  
Office Engineer

**FROM:** Steven E. Walker, P.E. *S. E. Walker*  
State Design Engineer

**RE:** 2020 Standard Drawings

The 2020 Standard Drawings include a major revision in the Index Numbers to make them consistent with the Standard Specification section number. To assist in cross-referencing with the old numbers, the 2020 Index will have the new and old drawing numbers. All references to Standards in the plans should be the New Index Numbers.

Attached is a listing of all the drawing changes with a brief description of the revision. If the only change was the Index Number, it is not included.

Below is a more detailed description of some of the revisions that may assist in application of the drawings.

New Index Number	Drawing Number	Revision
51201 – 51263	Various	Changes to Precast Bridge Drawings
61801 -- 61804	SW-618	Establishes the pay limits for concrete curb ramps so that curb ramps and detectable warnings can be paid separately from standard sidewalk.
62307	623-XY	Added General Note 2 regarding how to construct the gutter slope for curb and gutter on the high side of superelevation.
62901 & 62902	CSF-629	Revised the tie bar detail for the optional construction joint for the height extension above 36"
63013	GR-630- CL (1 of 4)	Complete revision to Case 1 to be in line with crash tests. Pay close attention to the Section A-A drawing and Note 9

		regarding offset to the parapet and the parapet height. If partial removal of the parapet height is to be done, include it in the guardrail summary box so it will be known that it is subsidiary. Also, new pay items have been established for each Case.
63014	GR-630-CL (2 of 4)	New sheet showing Case 2 by itself. No change to the Case 2 application.
63015	GR-630-CL (3 of 4)	Complete revision to Case 3 to be in line with crash tests. Please note the different post type and also the flush parapet. New pay items have been established for each Case.
63016	GR-630-CL (4 of 4)	Complete revision to Cases 4, 5 & 6 to be in line with crash tests. Pay close attention to the Section A-A drawing and Note 8 regarding offset to the parapet and the parapet height. If partial removal of the parapet height is to be done, include it in the guardrail summary box so it will be known that it is subsidiary. Also note the direction of travel for the Case 6 application for the splice location in the area of the omitted posts. That is in accordance with the way it was tested. New pay items have been established for each Case.
70110 – 70170, 70511	IPS-**	Clarified where the broken black stripe is to be used on bridges with asphalt approaches.
70302	TCM-703	Revised the crosswalk dimensions and added a Wrong Way Arrow detail for use on exit ramps.
70308	CW-703	Revised crosswalk marking type and configuration.
70507	PM-705-3 (1 of 2)	Added placement of Wrong Way Arrow on exit ramps and detail with RPM placement.
70508	PM-705-3 (2 of 2)	Deleted RPM placement around pavement arrow markings due to visibility and durability issues.
71032 & 71035	IHS-710- 23, 25	Required 2 sign posts for signs 16 SF and larger.
72001, 72004 & 72007	IA-720-M*	MASH approved attenuators eligible for permanent installation or temporary use in work zones on State routes. Note the widths protected and that 72001 is mono-direction only. It is expected there will be project details through the year as varying widths and new products are developed.
72601 & 72603	PNJB-629	These are the existing NCHRP Report 350 portable concrete free-standing and bridge bolted barriers that cannot be manufactured for use on State routes after 1/1/20. However, previously cast segments may be used through the extent of their useful life or until 2030, whichever comes first.
72607 -- 72609	PCBM- 726-JJ	MASH JJ-Hooks portable concrete barriers for free-standing, bridge bolted and pinned down on asphalt (where there is a dropoff concern behind the wall) applications. Note these are F-Shape. The previously cast JJ-Hooks New Jersey Shape 350 barriers can still be used through their useful life or until 2030, whichever comes first.

2020 Standard Drawings

72612	GTE-629	This is the Type 6A that goes with PNJB-629 and has the same stipulations.
72630	IA-720-MWS	This is a new MASH Work Zone only attenuator. Expect other project details to come out through the year as other MASH Work Zone attenuators are approved.
72651 -- 72659	IA-720-*	These are Report 350 attenuators manufactured before 1/1/20 that may be used <b>ONLY</b> in work zones for their useful life or for 5 years, whichever comes first.
74201 -- 74203	PCMS-710	Updates on the details on PCMS usage and a new sheet on standard messages.
75001 -- 75007	RL-LPF-*	Provided standard luminaire foundation sizes for construction.

cc: Mr. Stan Biddick, PE  
Mr. David Welch, PE  
File

attachment

<u>NEW INDEX NUMBER</u>	<u>DRAWING NUMBER</u>	<u>REVISION</u>
45013	CPJ-450 (Sheet 1 of 2)	Added tie bar table. Also added size note for dowels. Modified associated details and callouts.
45014	CPJ-450 (Sheet 2 of 2)	Modified longitudinal silicone seal detail.
51009	I-131 (Sheet 6 of 8)	Changed year to "2020" in details.
51201	PC-24 (Sheet 1 of 2)	Revised welded wire mesh designation.
51202	PC-24 (Sheet 2 of 2)	Revised welded fabric note and concrete compressive strength note.
51205	PC-34-2 (Sheet 1 of 2)	Revised welded wire mesh designation.
51206	PC-34-2 (Sheet 2 of 2)	Revised welded fabric note and concrete compressive strength note.
51209	PC-40 (Sheet 1 of 2)	Revised hole diameter in Half Plan Exterior Unit.
51210	PC-40 (Sheet 2 of 2)	Revised concrete compressive strength note.
51236	PCA-2840 CP (Sheet 1 of 1)	Revised dimension in Typical Intermediate Section. Added Pile Axial Compression Table and Socket Detail.
51239	PCAB-3540 (Sheet 1 of 1)	Revised notes in Elevation - End Bent and standard drawing number in table.
51243	PCB-2440-1 (Sheet 1 of 1)	NEW SHEET. Precast bent detail for connecting 24', 34', or 40' spans with 24'-6" roadway.
51251	PCB-2840 CP (Sheet 1 of 1)	Revised design axial loads in Design Parameters Table. Added Socket Detail.
51257	PCP-2400 CP (Sheet 1 of 1)	Revised Detail A and Wing Panel Assembly. Removed Socket Detail.
51263	PCP-2800 CP (Sheet 1 of 1)	Revised Detail A, Wing Panel Assembly, and Bid Item. Removed Socket Detail.
61801	SW-618 (Sheet 1 of 4)	Designated Curb Ramp Pay Limits
61802	SW-618 (Sheet 2 of 4)	Designated Curb Ramp Pay Limits
61803	SW-618 (Sheet 3 of 4)	Designated Curb Ramp Pay Limits
61804	SW-618 (Sheet 4 of 4)	Designated Curb Ramp Pay Limits
62307	623-XY	Added General Note 2 about rollover

62901	CSF-629 (Sheet 1 of 2)	Changed the Optional Construction Joint Details
62902	CSF-629 (Sheet 2 of 2)	Changed the Optional Construction Joint Details
63001	GR-630-S (Sheet 1 of 3)	Changed Note 4.
63006	GR-630-FD (Sheet 1 of 2)	Changed the Flare Rate for 60 mph to 14:1
63013	GR-630-CL (Sheet 1 of 4)	Case 1 completely redrawn to comply with MASH requirements. Cases 2 & 3 moved to new sheet.
63014	GR-630-CL (Sheet 2 of 4)	NEW SHEET: NO CHANGE to Case 2. Moved to separate sheet due to changes in Cases 1 and 3.
63015	GR-630-CL (Sheet 3 of 4)	NEW SHEET: Case 3 completely redrawn to comply with MASH requirements and moved to separate sheet
63016	GR-630-CL (Sheet 4 of 4)	Completely redrawn to meet MASH standards
63050	GA-630-20 (Sheet 1 of 3)	Changed blockouts to include wood and all approved composite
70110	IPS-701-12	Changed "Broken Traffic Stripe" Detail to clarify where white/black stripe is required.
70120	IPS-701-7	Changed "Broken Traffic Stripe" Detail to clarify where white/black stripe is required.
70123	IPS-701-3	Changed "Broken Traffic Stripe" Detail to clarify where white/black stripe is required.
70126	IPS-701-8	Changed "Broken Traffic Stripe" Detail to clarify where white/black stripe is required.
70130	IPS-701-9	Changed "Broken Traffic Stripe" Detail to clarify where white/black stripe is required.
70133	IPS-701-7	Added "Broken Traffic Stripe" Detail to clarify where white/black stripe is required.
70140	IPS-701-4	Changed "Broken Traffic Stripe" Detail to clarify where white/black stripe is required.
70150	IPS-701-8	Added "Broken Traffic Stripe" Detail to clarify where white/black stripe is required.
70153	IPS-701-10	Changed "Broken Traffic Stripe" Detail to clarify where white/black stripe is required.
70156	IPS-701-11	Changed "Broken Traffic Stripe" Detail to clarify where white/black stripe is required.
70160	IPS-701-5	Changed "Broken Traffic Stripe" Detail to clarify where white/black stripe is required.
70170	IPS-10 (SC)	Changed "Broken Traffic Stripe" Detail to clarify where white/black stripe is required.
70302	TCM-703 (Sheet 2 of 2)	Changed the crosswalk dimensions and added wrong way arrow details.
70308	CW-703	Revamped entire sheet
70507	PM-705-3 (Sheet 1 of 2)	Updated drawing for wrong way arrow pavement markings and signs. Added details for RPMs around Wrong Way Arrow.

70508	PM-705-3 (Sheet 2 of 2)	Deleted RPMs around arrows.
70511	PM-705-6	Changed "Broken Traffic Stripe" Detail to clarify where white/black stripe is required.
71032	IHS-710-21	Added Note 8
71035	IHS-710-23	Added Note 6
71050	SHS-0	Updated Listing to show removal of R1-5b sign
71051	SHS-0	Updated to change colors to match below changes
71060	SHS-1	Removed R1-5b sign
71066	SHS-7	Revised square foot quantities on several signs.
71074	SHS-12	Updated Sheeting Type for signs W1-1 through W2-1
71075	SHS-13	Updated square footage for W2-4 and W2-5
71076	SHS-14	Updated square footage for W7-1 and W7-1a
71077	SHS-15	Updated square footage for W7-5, W8-14, and W8-15
71078	SHS-16	Updated square footage for W9-1
71079	SHS-17	Updated sheeting type for W13-1P and updated square footage for most of the rest
71080	SHS-18	Updated square footage for W14-1, W14-2, and W15-1
72001	IA-720-MQ	NEW MASH compliant impact attenuator
72004	IA-720-MS	NEW MASH compliant impact attenuator
72007	IA-720-MT	NEW MASH compliant impact attenuator
72601	PNJB-629 (Sheet 1 of 2)	Deleted color from note 4 and added that color must match side and direction of travel and changed sheeting type to XL. Added Manufacturing Deadline. Changed title and Note 1 to reflect that this is now the previously cast barrier.
72602	PNJB-629 (Sheet 2 of 3)	Deleted Sheet
72603	PNJB-629 (Sheet 2 of 2)	Changed sheet range from 4 to 2 and moved JJ drawings to own series. Added Manufacturing Deadline

72607	PCBM-726-JJ (Sheet 1 of 3)	UPDATED drawing for MASH version of barrier and modified not 4 as above
72608	PCBM-726-JJ (Sheet 2 of 3)	NEW SHEET MASH compliant J-J Hooks barrier for pin / bolt options
72609	PCBM-726-JJ (Sheet 3 of 3)	NEW SHEET MASH compliant J-J Hooks barrier for pin / bolt options
72612	GTE-629	Added manufacturing deadline and modified Note 1.
72613	GTE-629	Deleted
72630	IA-720-MWS	NEW drawing for SLED Impact Attenuator (MASH) for work zone only use
72651	IA-720-M	NEW SHEET Modified bold Note about work zone use only to include a manufacturing deadline.
72652	IA-720-N	NEW SHEET Modified bold Note about work zone use only to include a manufacturing deadline.
72653	IA-720-Z	NEW SHEET Modified bold Note about work zone use only to include a manufacturing deadline.
72654	IA-720-P	NEW SHEET Modified bold Note about work zone use only to include a manufacturing deadline.
72655	IA-720-Q	NEW SHEET Modified bold Note about work zone use only to include a manufacturing deadline.
72656	IA-720-T	NEW SHEET Modified bold Note about work zone use only to include a manufacturing deadline.
72657	IA-720-V	NEW SHEET Modified bold Note about work zone use only to include a manufacturing deadline.
72658	IA-720-W	NEW SHEET Modified bold Note about work zone use only to include a manufacturing deadline.
72659	IA-720-X	NEW SHEET Modified bold Note about work zone use only to include a manufacturing deadline.
72901	ITS-729-001	Updated sheet to match General Application Special Provision for ITS
72907	ITS-729-003	Updated sheet to match General Application Special Provision for ITS
72913	ITS-729-005	Updated sheet to match General Application Special Provision for ITS
72916	ITS-729-006	Updated sheet to match General Application Special Provision for ITS
74007	TCD-100	Added 42" Cone and updated misc. other details
74201	PCMS-710 (Sheet 1 of 3)	Updated Notes on sign messages
74202	PCMS-710 (Sheet 2 of 3)	Updated Notes on sign messages
74203	PCMS-710 (Sheet 3 of 3)	NEW SHEET providing standard sign messages
75001	RL-LPF-001	Revised the Concrete Foundation Schedule and changed the sheet title.



75004	RL-LPF-002	Added Standard foundation sizes
75007	RL-LPF-003	NEW SHEET Revised the entire drawing and drawing title from the 2010 book.
75030	RLD-003	Added a manufacturer for photoelectric cell.
75057	RLD-012	Revised disconnect location, revised service pole text, and deleted Note 3.