

WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

Division of Highways

Joe Manchin III Governor

1900 Kanawha Boulevard East • Building Five • Room 110 Charleston, West Virginia 25305-0430 • 304/558-3505

September 19, 2008

MEMORANDUM

TO:

ALL HOLDERS OF STANDARD DETAILS BOOK, VOLUME 3

FROM:

GREGORY L. BAILEY, DIRECTOR Lagoy & ale,

ENGINEERING DIVISION

SUBJECT: ADDENDUM 3 TO THE 1999 STANDARD DETAILS BOOK, VOLUME 3

Attached for your use is Addendum 3 to the 1999 Standard Details Book, Volume 3. This addendum is necessary to revise the West Virginia Department of Transportation, Division of Highways Standard Details Volume 3, dated August 1, 1999.

Also included in this package are copies of the Standard Details that have been approved for use. The revision is as follows:

• Add the attached Standard Details, dated September 22, 2008

Please note that the Standard Details added by this addendum consists of the entire series of 4 ft spread boxes (17' thru 42" deep) and bridge deck scuppers. All Standard Detail pages are assigned a prefix BR-* or BRD-*.

Any questions concerning this addendum should be directed to Mr. Joe Hall at (304)558-9733 or Nimal Suhir at (304) 558-9712.

GLB:ns

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				PROJECT NUMBERS STATE FEDERAL DISTRI	COUNTY	SHEET T	OTAL
BR-1	SUPERSTRUCTURE PLAN-NORMAL CROSSING				1		
BR-1	SUPERSTRUCTURE PLAN-LEFT FORWAD SKEW		L				
BR-1	SUPERSTRUCTURE PLAN-RIGHT FORWARD SKEW	BR-PS1	REINFORCED CONCRETE PIER STEM DETAILS (R	ROUND NOSE)			
BR-1A	SUPERSTRUCTURE PLAN ON PILING NORMAL CROSSING	BR-PS2	REINFORCED CONCRETE PIER FOOTING ON PILI	•			
BR-1A	SUPERSTRUCTURE PLAN ON LEFT FORWARD SKEW	BR-PS3	REINFORCED CONCRETE PIER LAYOUT	-			
BR-1A	SUPERSTRUCTURE PLAN ON PILING RIGHT FORWARD SKEW	BR-DD1	DECK DRAIN DETAILS FOR AASHTO TYPE IV P	PRECAST PC RFAM SUPER	STRUCTURE		
BR-2A	GENERAL NOTES	BR-DD2	DECK DRAIN DETAILS FOR AASHTO TYPE IV N			RUCTUR	<i>}E</i>
BR-2B BR-7S	GENERAL NOTES CONCRETE ABUTMENT BRIDGE SEAT DETAILS-LT. FORWARD SKEW	BR-DD3	DECK DRAIN DETAILS FOR PRECAST PC BOX I	BEAM SUPERSTRUCTURE			
BR-7S BR-7S	CONCRETE ABOTMENT BRIDGE SEAT DETAILS-LT. FORWARD SKEW CONCRETE ABUTMENT BRIDGE SEAT DETAILS-RT. FORWARD SKEW	<i>BR-DD4</i>	DECK DRAIN DETAILS FOR STEEL SUPERSTRUC	TURE			
BR-73 BR-10	STEEL BEAM STRINGERS AND TIMBER DECK	BRD-B 17X36	17"X36" P.C. SPREAD BOX BEAM				
BR-10A	DOWEL LAMINATED TIMBER DECK	BRD-B 21X36	21"X36" P.C. SPREAD BOX BEAM				
BR-11	STEEL BEAM STRINGERS AND STEEL GRID DECK	BRD-B 27X36 BRD-B 33X36	27"X36" P.C. SPREAD BOX BEAM 33"X36" P.C. SPREAD BOX BEAM				
BR-11M	MODIFIED STEEL GRID DETAILS-OPEN TYPE	BRD-B 39X36	39"X36" P.C. SPREAD BOX BEAM				
BR-12	SHOE ASSEMBLY DETAILS-SPAN 60'-0" OR LESS	BRD-B 42X36	42"X36" P.C. SPREAD BOX BEAM				
BR-12L	SHOE ASSEMBLY DETAILS	BRD-B17X48	17"X48" P.C. SPREAD BOX BEAM				
BR-13	CONCRETE ABUTMENT LAYOUT	BRD-B21X48	21"X48" P.C. SPREAD BOX BEAM				
BR-P13	CONCRETE ABUTMENT ON PILING	BRD-B27X48	27"X48" P.C. SPREAD BOX BEAM				
BR-P14	CONCRETE ABUTMENT ON PILING-REINFORCING STEEL DETAILS	BRD-B33X48	33"X48" P.C. SPREAD BOX BEAM				1
BR-P15	CONCRETE ABUTMENT ON PILING-LEFT WINGWALL DETAILS	<i>BRD-B39X48</i>	39"X48" P.C. SPREAD BOX BEAM				
BR-P16	CONCRETE ABUTMENT ON PILING-RIGHT WINGWALL DETAILS	BRD-B42X48	42"X48" P.C. SPREAD BOX BEAM				
BR-P17	CONCRETE ABUTMENT ON PILING-RANGE 1, 2, & 3	BRD-II 36X12	AASHTO TYPE II 36" PRECAST CONCRETE BEAM				
BR–P17 BR–14	CONCRETE ABUTMENT ON PILING-RANGE 4 & 5 REINFORCED CONCRETE ABUTMENT-REINFORCING STEEL DETAILS	BRD-III 45X16	AASHTO TYPE III 45" PRECAST CONCRETE BEAM				
BR-14 BR-14S	BRIDGE SEAT DETAILS-LEFT FORWARD SKEW	BRD-IV 54X20	AASHTO TYPE IV 54" PRECAST CONCRETE BEAN				
BR-14S	BRIDGE SEAT DETAILS-ELLT FORWARD SKEW BRIDGE SEAT DETAILS-RIGHT FORWARD SKEW	BRD-IVJ 60X37	AASHTO TYPE IV I PC BEAM 60" DEEP, 37" TOP				
BR-15	LEFT WINGWALL DETAILS	BRD-IVJ 60X43 BRD-IVJ 60X49	AASHTO TYPE IV-J PC BEAM 60" DEEP, 43" TOF AASHTO TYPE IV-J PC BEAM 60" DEEP, 49" TO				
BR-16	RIGHT WINGWALL DETAILS	BRD-IVJ 60X49	AASHTO TYPE IV-J PC BEAM 60" DEEP, 49 TO				1'
BR-17	ABUTMENT FOOTING-RANGE 1, 2, & 3	BRD-IVJ 66X37	AASHTO TYPE IV-J PC BEAM 66" DEEP, 37" TO				1
BR-17	ABUTMENT FOOTING-RANGE 4 & 5	BRD-IVJ 66X43	AASHTO TYPE IV-J PC BEAM 66" DEEP, 49" TO				1
BR-17A	ABUTMENT FOOTING	BRD-IVJ 66X49	AASHTO TYPE IV-J PC BEAM 66" DEEP, 49" TO				1'
	12" PRESTRESSED PLANK BEAM DESIGN AND ASSEMBLY DETAILS	BRD-IVJ 66X61	AASHTO TYPE IV-J PC BEAM 66" DEEP, 61" TO				1'
BR-S12B	DESIGN TABLE FOR 12" PRESTRESSED PLANK BEAM	BRD-IVJ 72X37	AASHTO TYPE IV-J PC BEAM 72" DEEP, 37" TO	OP FLANGE			1'
BR-B17A	17" PRESTRESSED BOX BEAM DESIGN AND ASSEMBLY DETAILS	BRD-IVJ 72X43	AASHTO TYPE IV-J PC BEAM 72" DEEP, 43" TO				1
BR-B17B BR-B21A	DESIGN TABLE FOR 17" PRESTRESSED BOX BEAM 21" PRESTRESSED BOX BEAM DESIGN AND ASSEMBLY DETAILS	BRD-IVJ 72X49	AASHTO TYPE IV-J PC BEAM 72" DEEP, 49" TO				
	21" PRESTRESSED BOX BEAM DESIGN AND ASSEMBLY DETAILS DESIGN TABLE FOR 21" PRESTRESSED BOX BEAM	BRD-IVJ 72X61	AASHTO TYPE IV-J PC BEAM 72" DEEP, 61" TO				1'
	27" PRESTRESSED BOX BEAM DESIGN AND ASSEMBLY DETAILS	BRD-IVJ 78X37	AASHTO TYPE IV J PC BEAM 78" DEEP, 37" TO				
BR-B27B	DESIGN TABLE FOR 27" PRESTRESSED BOX BEAM	BRD-IVJ 78X43	AASHTO TYPE IV I PC BEAM 78" DEEP, 43" TO				1'
BR-B33A	33" PRESTRESSED BOX BEAM DESIGN AND ASSEMBLY DETAILS	BRD-IVJ 78X49 BRD-IVJ 78X61	AASHTO TYPE IV-J PC BEAM 78" DEEP, 49" TO AASHTO TYPE IV-J PC BEAM 78" DEEP, 61" TO				1
BR-B33B	DESIGN TABLE FOR 33" PRESTRESSED BOX BEAM	BRD-IVJ 84X37	AASHTO TYPE IV-J PC BEAM 84" DEEP, 81" TO				1'
BR-B39A	39" PRESTRESSED BOX BEAM DESIGN AND ASSEMBLY DETAILS	BRD-IVJ 84X43	AASHTO TYPE IV-J PC BEAM 84" DEEP, 43" TO				1'
BR-B39B	DESIGN TABLE FOR 39" PRESTRESSED BOX BEAM	BRD-IVJ 84X49	AASHTO TYPE IV-J PC BEAM 84" DEEP, 49" TO				1'
BR-B42A	42" PRESTRESSED BOX BEAM DESIGN AND ASSEMBLY DETAILS	BRD-IVJ 84X61	AASHTO TYPE IV-J PC BEAM 84" DEEP, 61" TO				
BR-B42B	DESIGN TABLE FOR 42" PRESTRESSED BOX BEAM	BRD-IVM 60X36	AASHTO TYPE IV MODIFIED 60" PRECAST CONC				1'
BR-B100	PRESTRESSED BOX BEAM DESIGN AND ASSEMBLY DETAILS	BRD-IVM 66X36	AASHTO TYPE IV MODIFIED 66" PRECAST CONC	CRETE BEAM			1
BR-B101	PRESTRESSED BOX BEAM DESIGN AND ASSEMBLY DETAILS	BRD-IVM 72X36	AASHTO TYPE IV MODIFIED 72" PRECAST CONC				1
BR-B102A	PRESTRESSED BOX BEAM DESIGN AND ASSEMBLY DETAILS	BRD-IVM 78X36	AASHTO TYPE IV MODIFIED 78" PRECAST CONC				
BR-B102B BR-B103	PRESTRESSED BOX BEAM DESIGN AND ASSEMBLY DETAILS PRESTRESSED BOX BEAM TRANSVERSE POST-TENSIONING DESIGN AND ASSEMBLY DETAILS	BRD-IVM 84X36	AASHTO TYPE IV MODIFIED 84" PRECAST CONC	CRETE BEAM			
BR-B103 BR-B104	PRESTRESSED BOX BEAM TRANSVERSE POST-TENSIONING DESIGN AND ASSEMBLY DETAILS PRESTRESSED BOX BEAM DESIGN AND ASSEMBLY DETAILS						
BR-B105A	PRESTRESSED CONCRETE BEAM DESIGN AND ASSEMBLY NOTES						
BR-B105B	PRESTRESSED CONCRETE BEAM DESIGN AND ASSEMBLY NOTES		 	NO. REVISION		DATE:	RY:
BR-B106	PRESTRESSED CONCRETE BEAM SKEWED END REINFORCING MISC. DESIGN AND ASSEMBLY DETAILS		L.	it vision			
BR-T1	GLULAM TIMBER SUPERSTRUCTURE PLAN-NORMAL CROSSING		To the state of th	WEST VIRGINIA DEPARTME	NT OF TRANS	PORTAT	ION
BR-T1	GLULAM TIMBER SUPERSTRUCTURE PLAN-RIGHT FORWARD SKEW			DIVISION OF			
BR-T1	GLULAM TIMBER SUPERSTRUCTURE PLAN-LEFT FORWARD SKEW		<u>L</u>	ENGINEERING	DIVISION		
BR-T2	GLULAM TIMBER SUPERSTRUCTURE PLAN-GENERAL NOTES						1'
BR-T3	GLULAM TIMBER SUPERSTRUCTURE DECK FASTENING DETAILS						
BR-T4	GLULAM TIMBER SUPERSTRUCTURE DIAPHRAGM DETAILS		DESIGNED DATE				1
BR-T5	GLULAM TIMBER SUPERSTRUCTURE-GUARDRAIL POST DETAILS		12/5/06				1
BR–T6 BR–PP2	GLULAM TIMBER SUPERSTRUCTURE-GIRDER ANCHORAGE DETAILS REINFORCED CONCRETE PIER ON PILES LAYOUT		DRÁWN				1'
BR-PP2 BR-PP3	REINFORCED CONCRETE PIER ON PILES LAYOUT REINFORCED CONCRETE PIER STEM DETAILS (SQUARE NOSE)		CHECKED		SH	IEET OF	— '
DII-113	HENTI STOLD SCHOTLIE FIET STEIN DETAILS (SQUATE NOSE)		DATE 09/22/08 REVIEWED			BRIDGE NO	5.
		DIRECT	OR ENGINEERING DIVISION				



















