

COMMONWEALTH of VIRGINIA

DEPARTMENT OF TRANSPORTATION 1401 EAST BROAD STREET RICHMOND, VIRGINIA 23219 2000

Gregory A. Whirley Commissioner

July 29, 2013

MEMORANDUM

To: All Holders of the Virginia Department of Transportation's 2008 Road and Bridge Standards

The following is a list of sheets contained in the 2008 <u>Road and Bridge Standards</u> that have been revised. Please add these pages to your copy of the standards. An interim standard sheet will <u>not</u> be required in plan assemblies for the following sheets only. Changes to these sheets will not affect the basis of payment or estimates.

PAGE REVISION

300.01	Revised index voiding page 303.01 Standard WP-1
303.01	Void - Standard WP-1 Method of Widening Bridge Approach Pavement
503.02	Corrected center detail for Metal Post to show the 6" dimension from the top of
	post to the top of the fence.

The following is a list of revised standards to the 2008 <u>Road and Bridge Standards</u> that *require* an interim standard sheet to be in included in your plan assembly until the next edition of the standards is published. Please add these pages to your copy of the standards. The respective interim standard sheet number has been placed with the revised standard. The interim standard sheets are available on VDOT's web site, on the FTP server, and in Falcon DMS for VDOT personnel. These interim standard sheets will be required in plan assemblies for Tier 1 projects advertised November 26, 2013 (Non Federally Eligible), December 10, 2013 (Federally Eligible) and later, along with Tier 2 projects advertised March 11, 2014 and later.

PAGE	INTERIM	STANDARD	REVISION

201.08 IIS02_06 MC-4

CLARIFIED THE SECTION DETAIL TO SHOW THE DIFFERENCE IN THE PAVED SHOULDER DEPTH AND THE PAVING UNDER GUARDRAIL DEPTH

PAGE	INTERIM	STANDARD	REVISION
304.02	IIS03_04	RS-3	REVISED NOTE 7 REMOVED STATEMENT "IN ASPHALT CONCRETE PAVEMENT THAT IS BEEN IN PLACE MORE THAN ONE YEAR".
304.03	IIS03_05	RS-4	REVISED NOTE 4 REMOVED STATEMENT "IN ASPHALT CONCRETE PAVEMENT THAT IS BEEN IN PLACE MORE THAN ONE YEAR".
502.01	IIS05_18	MB-3	REVISED FLARE RATE TABLE TO MATCH THE RDM AND AASHTO
1005.10	1005.10	BCQ-10	UPDATED SHEET TO SHOW WINGWALL DESIGNATIONS
1324.10	IIS13_04	OSS-1	THE ELEVATION DRAWINGS WERE UPDATED INCREASING THE PROJECTION ABOVE GRADE FOR FOUNDATIONS AND NOTE 7 AND 8 WERE ADDED
1324.13	IIS13_41	OSS-1	FOOTING DETAIL UPDATED INCREASING THE PROJECTION ABOVE GRADE FOR FOUNDATIONS

If you have any questions or comments regarding this revision, please contact Chuck Patterson P.E., at (804) 786-1805, of the Standards and Special Design Section.

Sincerely,

Signature on file: July 29, 2013

B. A. Thrasher, P.E. State Location & Design Engineer MC - 4



ASPHALT PAVING UNDER GUARDRAIL

(FOR USE WHERE ASPHALT CURB IS NOT REQUIRED)



STANDARD	TITLE		PAGE
PR-2	PLAIN AND REINFORCED CONCRETE PAVEMENT SHOWING REINFORCEMENT, LONGITUDINAL AND TRANSVERSE JOINTS		301.01
	PLAIN AND REINFORCED CONCRETE PAVEMENT SHOWING REINFORCEMENT, LONGITUDINAL AND TRANSVERSE JOINTS		301.02
	PLAIN AND REINFORCED CONCRETE PAVEMENT SHOWING REINFORCEMENT, LONGITUDINAL AND TRANSVERSE JOINTS		301.03
	STANDARD LOAD TRANSFER ASSEMBLY CONTRACTION JOINT		301.04
	STANDARD LOAD TRANSFER ASSEMBLY EXPANSION JOINT		301.05
PR-3	8" CONTINUOUSLY REINFORCED CONCRETE PAVEMENT (WIRE MESH REINFORCEMENT)-	HIS STANDARD IS V	OID 301.06
	8" CONTINUOUSLY REINFORCED CONCRETE PAVEMENT (STEEL BAR REINFORCEMENT)		301.07
	8" CONTINUOUSLY REINFORCED CONCRETE PAVEMENT (FOR USE WITH BAR OR WIRE MESH REINFORCEMENT)		301.08
	8" CONTINUOUSLY REINFORCED CONCRETE PAVEMENT (LEAVE OUT JOINT DETAIL)		301.09
PR-4	9" CONTINUOUSLY REINFORCED CONCRETE PAVEMENT (STEEL BAR REINFORCEMENT)		301.10
	9" CONTINUOUSLY REINFORCED CONCRETE PAVEMENT (FOR USE WITH BAR REINFORCEMENT ONLY)		301.11
	9" CONTINUOUSLY REINFORCED CONCRETE PAVEMENT (LEAVE OUT JOINT DETAIL)		301.12
PR-5	9" CONTINUOUSLY REINFORCED CONCRETE PAVEMENT 14 FOOT TRAVEL LANE		301.13
	9" CONTINUOUSLY REINFORCED CONCRETE PAVEMENT 14 FOOT TRAVEL LANE		301.14
	9" CONTINUOUSLY REINFORCED CONCRETE PAVEMENT 14 FOOT TRAVEL LANE		301.15
PR-6	10" CONTINUOUSLY REINFORCED CONCRETE PAVEMENT 14 FOOT TRAVEL LANE		301.16
	10" CONTINUOUSLY REINFORCED CONCRETE PAVEMENT 14 FOOT TRAVEL LANE		301.17
	10" CONTINUOUSLY REINFORCED CONCRETE PAVEMENT 14 FOOT TRAVEL LANE		301.18
PR-7	11" CONTINUOUSLY REINFORCED CONCRETE PAVEMENT 14 FOOT TRAVEL LANE		301.19
	11" CONTINUOUSLY REINFORCED CONCRETE PAVEMENT 14 FOOT TRAVEL LANE		301.20
	11" CONTINUOUSLY REINFORCED CONCRETE PAVEMENT 14 FOOT TRAVEL LANE		301.21
PR-8	12" CONTINUOUSLY REINFORCED CONCRETE PAVEMENT 14 FOOT TRAVEL LANE		301.22
	12" CONTINUOUSLY REINFORCED CONCRETE PAVEMENT 14 FOOT TRAVEL LANE		301.23
	12" CONTINUOUSLY REINFORCED CONCRETE PAVEMENT 14 FOOT TRAVEL LANE		301.24
PR-9	13" CONTINUOUSLY REINFORCED CONCRETE PAVEMENT 14 FOOT TRAVEL LANE		301.25
	13" CONTINUOUSLY REINFORCED CONCRETE PAVEMENT 14 FOOT TRAVEL LANE		301.26
	13" CONTINUOUSLY REINFORCED CONCRETE PAVEMENT 14 FOOT TRAVEL LANE		301.27
XJ-1	BRIDGE APPROACH EXPANSION JOINT (FOR WIDENING OR MAINTENANCE OF EXISTING XJ-1 ONLY)		302.01
	BRIDGE APPROACH EXPANSION JOINT (INSTALLATION CRITERIA)		302.02
WP-1	METHOD OF WIDENING BRIDGE APPROACH PAVEMENT T	HIS STANDARD IS V	OID 303.01
WP-2	PAVEMENT WIDENING		303.02
RS-1	CONTINUOUS SHOULDER RUMBLE STRIPS		304.01
RS-3	CENTERLINE RUMBLE STRIPS		304.02
RS-4	CONTINUOUS SHOULDER RUMBLE STRIPES		304.03
RS-5	INTERMITTENT SHOULDER RUMBLE STRIPS		304.04
ACOT-1	ASPHALT CONCRETE OVERLAY TRANSITIONS (REPLACES THE STANDARD TPT-1 TRANSVERSE PA	/EMENT TIE-IN)	305.01
	INIDEN DE CHEETO		
		ROAD AND BRID	GE STANDARDS
	SECTION JUU-PAVEMENT TIEMS	REVISION DATE	SHEET 1 OF 1
	VIRGINIA DEPARTMENT OF TRANSPORTATION	7/13	300.01











	FOR TYPICAL SECTION, NOTES AND OTHER DETAILS, REFER TO STANDARD BCQ-DT.									L	BCQ-10															
				REINFORCING STEEL							HE	ADW	ALLS	•			П									
SPAN	HGHT						BTI							c. NG	1.15	NG	G		нพт			СЗ	BS)	3	NG 3S)	
			ING								Η	ARS	3L2 ARS	ORCI	F A	ORCI [LF)	ALL		H	HW2	HW3	RE TI	ORCI	A CET	ET ORCI - (LE	VALL
Ê	T.)	IZE	PAC C-C		_b				f f		ENG	10. 10. 11.	10. E	EINF TEEL	ONCI LAS: LAS:	EINF TEEL BS/	ENG	SIZE	ENG	40. H	IO. I BARS	NLET CONC		L. ACI	UTLE ENF TEEL	INGV
<u> </u>	Ľ,	0,	1.2"	2' 07/'		 	0' 57/"		' 	9 11 E7/ "		2 # (0	2 #		000			c,		2 Ш	12	200		2 101	020	-
3	4	4	12	2 - 078	$0 - 4\frac{1}{2}$	1 - 6%	0 - 578 0'- 57%	0 - 374	14 - 11 78	1 - 578	15 - 9	60	20	60.690	1.204	141.099	16'-10"	о 6	16'- 6"	 З	12	2.333	148.230	2.191	99.132	C
4	3	4	12"	3'- 61/2'	0'- 4 ¹ /2"	1'-11/2"	0'- 578"	0'- 3¾	19'- 0"	2'- 1"	19'- 9"	76	20	70.520	1.479	168.508	20'-10"	6	20'- 6"	3	12	2.626	161.908	2.609	123.164	A
4	4	4	12"	3'- 61/2'	" 0'- 4 ¹ /2"	1'-11/2"	0'- 51/8"	0'- 3¾	19'- 0"	2'- "	19'- 9"	76	30	74.050	1.602	178.948	20'-10"	6	20'- 6"	3	15	2.738	172.262	2.702	123.164	С
4	5	4	12"	3'- 6 ^l /2'	" 0'- 4 ^l / ₂ "	'- /2"	0'- 51/8"	0'- 3¾'	19'- 0"	2'- I"	19'- 9"	76	40	77.580	1.724	189.388	20'-10"	6	20'- 6"	3	18	2.849	182.616	2.794	123.164	Ε
4	6	4	12"	3'- 6 ¹ /2'	" 0'- 4 ¹ /2"	1'-111/2"	0'- 51/8"	0'- 3¾	19'- 0"	2'- I"	19'- 9"	76	50	81.110	1.847	199.828	20'-10"	6	20'- 6"	3	21	2.960	192.970	2.887	123.164	G
5	3	4	12"	4'- 4 ¹ /8'	" 0'- 4 ¹ /2"	2'- 41/4"	0'- 51/8"	0'- 3¾	23'- 0"	2'- 8 ¹ /4"	23'- 9"	92	20	83.880	1.675	195.339	24'-10"	6	24'- 6"	3	12	3.031	185.940	3.027	147.196	Α
5	4	4	12"	$4' - 4'/_{8'}$	" 0'- 4 ¹ /2"	2' - 4'/4''	0'- 51/8"	$0' - 3\frac{3}{4}'$	23'- 0"	2'- 8'/4"	23'- 9"	92	30	87.410	1.797	205.779	24'-10"	6	24'- 6"	3	15	3.142	196.294	3.120	147.196	C
5	5	4	12"	4' - 4'/8'	" 0'- 4'/2" " 0'- 4!/ "	2' - 4'/4''	0' - 5'/8''	0' - 3%'	23'- 0"	2'- 8'/4"	23'- 9"	92	40	90.940	1.920	216.219	24'-10"	6	24'- 6") 7	18	3.254	206,648	3.212	147.196	E
5	7	4	12"	4' - 4'/8	" 0'- 4 ¹ /2"	2' - 4'/4	0'- 5%	0'- 33/4'	23 0	2' - 8'/4''	23 3	92	60	98.000	2.045	220.033	24 10	6	24 0	3	24	3 476	277.356	3 398	147.196	
6	4	4	12"	5'- 13/4'	" 0'- 4 ¹ /2"	2'- 9"	0'- 5%	$0' - 3\frac{3}{4}$	27'- 0"	2 0/4 3'- 3 ¹ /2"	27'- 9"	108	30	100.770	1.991	253.889	28'-10"	6	28'- 6"	3	15	3.547	220.326	3.537	171.228	c
6	5	4	12"	5'- 13/4'	" 0'- 4 ¹ /2"	2'- 9"	0'- 51/8"	0'- 3¾	27'- 0"	3'- 31/2"	27'- 9"	108	40	104.300	2.114	264.643	28'-10"	6	28'- 6"	3	18	3.658	230.680	3.630	171.228	E
6	6	4	12"	5'- 13/4'	" 0'- 4 ^l / ₂ "	2'- 9"	0'- 51/8"	0'- 3¾'	27'- 0"	3'- 31/2"	27'- 9"	108	50	107.830	2.236	275.397	28'-10"	6	28'- 6"	3	21	3.770	241.034	3.723	171.228	G
6	7	4	12"	5'- 1¾	" 0'- 4 ^l / ₂ "	2'- 9"	0'- 51/8"	0'- 3¾'	27'- 0"	3'- 3 /2"	27'- 9"	108	60	111.360	2.359	287.512	28'-10"	6	28'- 6"	3	24	3.881	251.388	3.816	171.228	1
6	8	4	12"	5'- 1¾	" 0'- 4 ^l / ₂ "	2'- 9"	0'- 51/8"	0'- 3¾'	27'- 0"	3'- 3 /2"	27'- 9"	108	70	114.890	2.482	299.627	28'-10"	6	28'- 6"	3	27	3.992	261.742	3.908	171.228	К
7	4	4	12"	5'-113/8"	' 0'- 4 ¹ /2"	3'- 17/8"	0'- 51/8"	0'- 3¾	31'- 1/8"	3'-105/8"	31'-10"	124	30	114.130	2.187	276.214	32'-10"	6	32'- 6"	3	15	3.952	244.358	3.955	195.260	С
7	6	4	12"	5'-11%	' 0'- 4 ¹ /2"	3'- 1/8"	0'- 5%	0'- 3 ³ /4'	31'- 1/8"	3'-10%	31'-10"	124	50	121.190	2.432	299.219	32'-10"	6	32'- 6"	3	21	4.174	265.066	4.141	195.260	G
7	8	4	12"	5'-11%	' 0'- 4'/2"	3'- 1%	0'- 51/8"	0'- 3%	31'- 1/8"	3'-10%8"	31'-10"	124	70	128.250	2.677	324.059	32'-10"	6	32'- 6"	3	27	4.397	285.774	4.326	195.260	K
(10	4	11"	5'-11%8"	0'- 4'/2"	3' - 1'/8''	0'- 5%	0'- 374'	31'- '/8"	3'-10%8"	31'-10"	124	90 70	135.310	2.920	374.109	32'-10"	6	32'- 6"	5 7	33	4.620	306,482	4.512	195.260	
0 8	4	4		6'- 854'	0 - 474	J - 078	0 - 674		34-1178	4 - 578	35-10	140	50	121.490	2.435	3/5 357	36'-10	0 6	36'- 6"	ך א	21	4.534	289.098	4.551	219.292	
8	8	4	10"	6'- 85%'	0'- 5"	3'- 6 ¹ /8"	0'- 61/2"	0' - 4'/4'	34'-11%"	4'- 5%	35'-10"	140	70	141.610	2.133	386 268	36'-10"	6	36'- 6"	3	21	4 757	309.806	4 700	219.292	ĸ
8	10	4	9"	6'- 81/2'	" 0'- 5 ¹ /4"	3'- 5 ⁷ /8"	0'- 61/2"	$0' - 4'/_{2'}$	34'-11%	4'- 5 ¹ /8"	35'-11"	140	90	148.670	3.276	447.410	36'-10"	6	36'- 6"	3	33	4.957	330.514	4.863	219.292	0
9	4	4	9"	7'- 6"	0'- 51/2"	3'-101/2"	0'- 71/4"	0'- 43/4'	39'- 0"	5'- 0"	40'- 0"	156	30	140.850	2.812	451.848	40'-10"	6	40'- 6"	3	15	4.659	292.422	4.689	243.324	С
9	6	4	9"	7'- 51/8'	" 0'- 5¾"	3'-101/4"	0'- 75/8"	0'- 5"	39'- 0"	4'-113⁄4"	40'- 0"	156	50	147.910	3.119	459.598	40'-10"	6	40'- 6"	3	21	4.875	313.130	4.868	243.324	н
9	8	4	9"	7'- 5¾	" 0'- 6"	3'-10"	0'- 8"	0'- 51/4'	39'- 0"	4'-11/2"	40'- I"	156	70	154.970	3.424	492.432	40'-10"	6	40'- 6"	3	27	5.072	333.838	5.028	243.324	L
9	10	4	9"	7'- 5¾'	" 0'- 6"	3'-10"	0'- 8"	0'- 5 ¹ /4'	39'- 0"	4'-11/2"	40'- I"	156	90	162.030	3.666	554.516	40'-10"	6	40'- 6"	3	33	5.295	354.546	5.213	243.324	Ρ
9	12	4	8"	7'- 5%	" 0'- 6 ¹ /4"	3'- 9¾"	0'- 83/8"	0'- 5 ¹ /2'	39'- 0"	4'- /4"	40'- 2"	156	110	169.090	3.970	599.804	40'-10"	6	40'- 6"	3	39	5.492	375.254	5.373	243.324	T
10	4	4	8"	8'- 3 ¹ /4'	" 0'- 6 ¹ /4"	4'- 2 ¹ /2"	0'- 83/8"	0'- 5 ¹ /2'	43'- 0"	5'- 6 /2"	44'- 2"	172	30	154.210	3.229	519.693	44'-10"	6	44'- 6"	3	15	4.985	316.454	5.028	267.356	D
10	6	4	8"	8'- 3 ¹ /8'	0'- 6 ¹ /2"	4'- 2 ¹ /4"	0'- 85/8"	0'- 5¾'	43'- 0"	5'- 6 ¹ /4"	44'- 2"	172	50	161.270	3.541	540.827	44'-10"	6	44'- 6"	3	21	5.179	337.162	5.185	267.356	н
10	8	4	8"	8'- 3"	0 - 61/4"	4'- 2"	0'- 9"	0'- 6"	43'- 0"	5'- 6"	44'- 3"	172	70	168.330	3.853	574.370	44'-10"	6	44'- 6"	3	27	5.373	357.870	5.342	267.356	L
10	10	4	8"	8'- 3"	0'- 6¾	4'- 2"	0'- 9"	0'- 6"	43'- 0"	5'- 6"	44'- 3"	172	90	175.390	4.094	649.612	44'-10"	6	44'- 6"	3	33	5.595	378.578	5.527	267.356	P
10	12	5	10"	8'- 2%	" 0'- 7'/8" " 0' 9//"	4'- 1%4"	0'- 9'/2"	0'- 6'/4'	43'- 0"	5'- 5%4"	44'- 3"	172	110	182.450	4.405	775 921	44'-10"	6	44'- 6"	5 7	39	5.790	399.286	5.684	261.356	H
12	0 9	6	12"	9 - 9/2	0 - 8/2"	4 - 10%	0 - 11 %8"	$0 = \frac{1}{2}$	51 - 78	6'- 67/8"	52'- 6"	204	50 70	181.990	4.575	797 944	52 - 10"	6	52'- 6"	כ ד	21	2.636	J05 934	5.128	315.420	
12	10	5	9"	9'- 93/2	0 072	4'- 97%"	0'-115%"	0' - 73/4'	51'- 1/8"	6'- 65%"	52'- 7"	204	90	202 110	5 142	811.072	52'-10"	6	52'- 6"	3	33	6.106	426 642	6.065	315 420	P
12	12	5	9"	9'- 9'/1'	0'- 8%	4'- 95%"	1'- 0"	0'- 8"	51'- 1/8"	6'- 63/	52'- 8"	204	110	209.170	5.464	873.156	52'-10"	6	52'- 6"	3	39	6.294	447.350	6.215	315.420	T
		-		1/4	A	COPY C	F THE (SEALED	AND SIG	NED DRA	WING	IS C	N FILE	IN THE	CENTRA	L OFFICE									
SPE	CIFIC	ATIO	N										<u> </u>													\dashv
RI	FERE	NCE	-				Q	UAE	JRUF	LΕ	BOX		CU	LVE	RT	S					R	ROAD AND BRIDGE STANDARDS				
									5	TO 1	0 FT.	FI	LS								REVISION DATE SHEF				2 OF	2
									VIRGINIA	DEPARTM	ENT OF	TRAN	SPOR	TATION								07/13	F	10	05.10	

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				OSS-1
TYPICA	NDATION	LOCATION OF F USE CONDUITS DOUBLE END F STRUCTURE	UTURE FOR POLE S	
FINISH GRADE SPARE CONDUITS	ED 6'' 6'' 6'' 6'' 6'' 6'' 6'' 6'		©_** ¢_**	
NOTES	<u>S:</u>			
THE TYP FOOTINGS	E, SIZE, NUMBER AND ORIENTATION OF CONDUITS ENTERING AND EXITING S MAY VARY PER SIGN LOCATION.			
IN ADDITI REQUIRED FOR FUT FUTURE FOR LOC STRUCTU	ON TO THE CONDUITS SPECIFIED ON THE PLANS, ONE - 1" CONDUIT) FOR GROUND WIRE AND TWO - 2" PVC HEAVY WALL CONDUITS REQUIRED URE USE.FUTURE USE CONDUITS SHALL BE STUBBED OUT AND CAPPED. USE CONDUITS SHALL BE ORIENTED TO RUN PARALLEL TO THE ROADWAY. ATION OF FUTURE USE CONDUITS IN FOUNDATIONS FOR DOUBLE END POLE RES, SEE DRAWING AT RIGHT.	* FUTURE USE CON PARALLEL TO TH	DUITS PLACED E ROADWAY	
EACH FO WHICH C FINISHING LONG. LO MARK MA	UNDATION SHALL BE PERMANENTLY MARKED TO INDICATE ALL SIDES FROM ONDUITS PASS. THIS MARK SHALL BE MADE WITH A TROWEL WHEN THE CONCRETE AND SHALL BE 1/4 " DEEP AND 4" TO 6" CATIONS OF EMPTY CONDUITS SHALL HAVE AN ADDITIONAL 2" LONG DE PERPENDICULAR TO AND CENTERED ON THIS MARK.	** FUTURE USE CON AT AN ANGLE TO BACK FOUNDATIOI BOLTS IN A SPRE FOUNDATION.	DUITS PLACED MISS THE N OR ANCHOR AD FOOTING	
FOUNDAT EDGES.	IONS ABOVE FINISHED GRADE SHALL BE CHAMFERED $rac{3}{4}$ " ON ALL			
GROUNDIN	NG BUSHINGS SHALL BE INSTALLED ON EACH END OF METAL CONDUITS.			
BELL END	DS SHALL BE INSTALLED ON EACH END OF PVC CONDUITS.			
BELL ENI AND ROD	DS & BUSHINGS OF EMPTY CONDUITS SHALL BE PLUGGED TO PREVENT MOISTURE IENT ENTRY.			
VOIDS RE SHALL BI	EMAINING AFTER CONDUCTORS EXIT OR ENTER BELL ENDS OR BUSHINGS OF CONDUITS E SEALED WITH SILICONE TO PREVENT MOISTURE AND RODENT ENTRY.			
NO MORT AND TOP	AR, GROUT, OR CONCRETE SHALL BE PLACED BETWEEN BOTTOM OF BASE PLATE OF FOUNDATION.			
SPECIFICATION REFERENCE	a copy of the original sealed and signed standard drawing is on f $OVERHEAD$ SIGN STRUCT	URE		
700	FOUNDATION DETAILS		REVISION DATE	SHEET 4 OF 7
700	VIRGINIA DEPARTMENT OF TRANSPORTATION		7/13	1324.13