

Ministry of Works – Standard plans for highway bridges (Green Folder) (1970)

Type of structure or subject	Description	Width of roadway	Live load capacity	Span lengths (feet)	Drawing no.	Approved or amended date	File	
Standard plans for highway bridges - Index					M.O.W 9506	1.4.70	G00-MOW9506-Green-Folder-1970-Index.pdf	
Composite universal bridge beams	Simply supported composite action steel beam spans	24'	H20-S16-T16	20, 25, 30, 35.	M.O.W. 5916	28.5.63	G01-MOW5916-1.pdf	
		24'		40, 45, 50, 60.	M.O.W. 5917		G02-MOW5917-1.pdf	
		24'		70, 80.	M.O.W. 5918		G03-MOW5918-1.pdf	
Welded splice for univ. beams					M.O.W. 3050	26.9.61	G04-MOW3050-1.pdf	
Continuous universal beam bridges	Continuous 3 span	24'		H20-S16-T16	Typical details	M.O.W. 8796	27.4.64	G05-MOW8796-1.pdf
		24'			25 – 30 – 25	M.O.W. 8797		G06-MOW8797-1.pdf
		24'			27'-6" – 35' – 27'-6"	M.O.W. 8798		G07-MOW8798-1.pdf
		24'			30 – 40 – 30	M.O.W. 8799		G08-MOW8799-1.pdf
		24'			32'-6" – 45' – 32'-6"	M.O.W. 8800		G09-MOW8800-1.pdf
		24'			35 – 50 – 35	M.O.W. 8801		G10-MOW8801-1.pdf
		24'	42'-6" – 55' – 42'-6"		M.O.W. 8802	G11-MOW8802-1.pdf		
		24'	47'-6" – 65' – 47'-6"		M.O.W. 8803	G12-MOW8803-1.pdf		
		24'	55 – 70 – 55		M.O.W. 8804	G13-MOW8804-1.pdf		
		24'	60 – 80 – 60		M.O.W. 8805	G14-MOW8805-1.pdf		
		24'	65 – 90 – 65		M.O.W. 8806	G15-MOW8806-1.pdf		
		24'	72'-6" – 95' – 72'-6"		M.O.W. 8807	G16-MOW8807-1.pdf		
		Composite plate girder bridges	Simply supported composite action steel beam spans		24'			50, 60, 70, 80, 90, 100
Welded splice for plate girders					M.O.W. 6020	23.8.62	G18-MOW6020-1.pdf	
Reinforced concrete slab bridges	Simply supported	12'	H20-S16-44	15, 17½, 20, 22½, 25	P.W.D. 148341	2.10.56	G19-PWD148341-1.pdf	
		24'		15, 17½, 20, 22½, 25	P.W.D. 148432		G20-PWD148432-1.pdf	
Reinforced concrete slab frame bridges	Continuous 3 span	24'	H20-S16-T16	20 – 25 – 20	M.O.W. 8097	25.9.63	G21-MOW8097-1.pdf	
		24'		22½ – 30 – 22½	M.O.W. 8098		G22-MOW8098-1.pdf	
		24'		25 – 35 – 25	M.O.W. 8099		G23-MOW8099-1.pdf	
		24'		30 – 40 – 30	M.O.W. 8100		G24-MOW8100-1.pdf	
Pretensioned I beam bridges			H20-S16-T16	New 35'-60' spans	M.O.W. 6493	5.4.66	G25-MOW6493-1.pdf	
Standard pretensioned beams	Simply supported composite action	24'	H20-S16-T16	Modified 45 ft span	M.O.W. 6316	13.2.64	G26-MOW6316-1.pdf	
				Modified 55 ft span	M.O.W. 9221	21.2.64	G27-MOW9221-1.pdf	
				Modified 50 ft span	M.O.W. 9247	21.2.64	G28-MOW9247-1.pdf	
				Modified 40 ft span	M.O.W. 9271	21.2.64	G29-MOW9271-1.pdf	

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Post-tensioned I beam bridges	Simply supported composite action	24'	H20-S16-T16	40 – 100	M.O.W. 8123	31.8.66	G30-MOW8123-1.pdf	
				40	M.O.W. 8116	11.12.63	G31-MOW8116-1.pdf	
				50	M.O.W. 8117		G32-MOW8117-1.pdf	
				60	M.O.W. 8118		G33-MOW8118-1.pdf	
				70	M.O.W. 8119		G34-MOW8119-1.pdf	
				80	M.O.W. 8120		G35-MOW8120-1.pdf	
				90	M.O.W. 8121		G36-MOW8121-1.pdf	
				100	M.O.W. 8122		G37-MOW8122-1.pdf	
	Design details	24'		40 – 100	M.O.W. 6266			G38-MOW6266-1.pdf
Precast pretensioned plank bridges	Precast bridge units		H20-S16-44	10 to 30	P.W.D. 150307	1.4.66	G39-PWD150307-1.pdf	
	Bridge section	24'		10 to 30	P.W.D. 150320 (sh. 1)	2.4.63	G40-PWD150320-1.pdf	
	Bridge section	12'		10 to 30	P.W.D. 150320 (sh. 2)	2.4.63	G41-PWD150320-2.pdf	
	Precast bridge units		H20-S16-T16	35	M.O.W. 4373	1.4.66	G42-MOW4373-1.pdf	
	Precast bridge units			40	M.O.W. 4419	1.4.66	G43-MOW4419-1.pdf	
	Deck details	24'		35 & 40	M.O.W. 4418	8.8.62	G44-MOW4418-1.pdf	
	Precast bridge units modified for 3/8" strands			20, 22½, 25, 27½, 30	M.O.W. 9502	10.4.64	G45-MOW9502-1.pdf	
	Precast bridge units - 36" width				40	M.O.W. 11120	22.10.65	G46-MOW11120-1.pdf
					20	M.O.W. 11112		G47-MOW11112-1.pdf
					22½	M.O.W. 11113		G48-MOW11113-1.pdf
					25	M.O.W. 11114		G49-MOW11114-1.pdf
					27½	M.O.W. 11115		G50-MOW11115-1.pdf
					30	M.O.W. 11116		G51-MOW11116-1.pdf
			32½		M.O.W. 11117	G52-MOW11117-1.pdf		
35	M.O.W. 11118	G53-MOW11118-1.pdf						
37½	M.O.W. 11119	G54-MOW11119-1.pdf						
Deck details - 36" units	24'		20 - 40	M.O.W. 11121		G55-MOW11121-1.pdf		

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Farm bridges	Timber spans	8 & 12	6 ton truck	6, 8, 10, 15, 20, 25, 30	P.W.D. 144343 (sh. 1)	31.3.64	G56-PWD144343-1.pdf
	RSJ spans	8 & 12		6, 8, 10, 15, 20, 25, 30	P.W.D. 144343 (sh. 2)		G57-PWD144343-2.pdf
	Composite laminated timber	12'		25 & 30	M.O.W. 6327		G58-MOW6327-1.pdf
	Nail laminated	12'		10, 15, 20	M.O.W. 6328		G59-MOW6328-1.pdf
Reinforced concrete box culverts	Single, two & three cell				P.W.D. 119465 (3 sh.)	2.11.56	G60-PWD119465-1.pdf G61-PWD119465-2.pdf G62-PWD119465-3.pdf
	Wingwalls & apron				P.W.D. 120351 (2 sh.)		G63-PWD120351-1.pdf G64-PWD120351-2.pdf
	Diagrams & notes				P.W.D. 120433		G65-PWD120433-1.pdf
Miscellaneous details	Standard bridge kerb				M.O.W. 4804	12.12.62	G66-MOW4804-1.pdf
	Deformed bars for concrete reinforcement				M.O.W. 4627	17.9.64	G67-MOW4627-1.pdf
	NZR clearance standards to main lines				M.O.W. 9578	20.4.65	G68-MOW9578-1.pdf
	Standard tubular steel handrails		Hor 300lbs/lin ft Vert 50 lbs/lin ft		M.O.W. 7712	21.11.67	G69-MOW7712-1.pdf G70-MOW7712-1a.pdf
	Bronze date & loading panel – for casting into bridge deck surface				M.O.W. 10501	24.12.64	G71-MOW10501-1.pdf
	Highway guardrail steel 'W' type				M.O.W. 13966	31.7.68	G72-MOW13966-1.pdf G73-MOW13966-2.pdf
	Bridge kerb end treatment				M.O.W. 16157	9.3.70	G74-MOW16157-1.pdf
	Transflex deck joints				M.O.W. 16566	13.4.72	G75-MOW16566-1.pdf

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Piles	Steel 'H' inspection pipe details				P.W.D. 153215	18.9.59	G76-PWD153215-1.pdf
	Steel 'H' bending details				P.W.D. 147983	15.11.57	G77-PWD147983-1.pdf
	Shoes for timber piles				P.W.D. 73991	12.6.63	G78-PWD73991-1.pdf
	Pile shoes for timber piles				M.O.W. 4778	19.6.63	G79-MOW4778-1.pdf
	Standard 14" square				P.W.D. 97122	18.9.59	G80-PWD97122-1.pdf
	Standard 14" octagonal				P.W.D. 130263		G81-PWD130263-1.pdf
	Standard 14" sq. (1/4" stirrups)				P.W.D. 127699		G82-PWD127699-1.pdf
	Standard 14" PSC sq. ended				P.W.D. 155095	30.5.63	G83-PWD155095-1.pdf
	Standard 14" PSC octagonal				P.W.D. 155849		G84-PWD155849-1.pdf
	Standard 14" octagonal with timber leaders				P.W.D. 156229	18.9.59	G85-PWD156229-1.pdf
	Standard 14" octagonal & timber leader				P.W.D. 109379		G86-PWD109379-1.pdf
	Standard 14" sq. PSC (hard driving)				P.W.D. 159159	30.5.63	G87-PWD159159-1.pdf
	Standard 15" PSC (sq. ended)				P.W.D. 155094		G88-PWD155094-1.pdf
	Standard 15" sq. PSC (hard driving)				P.W.D. 159160		G89-PWD159160-1.pdf
	Standard 16" octagonal				P.W.D. 152992	18.9.59	G90-PWD152992-1.pdf
16" square reinforced concrete				P.W.D. 143803 (sh. 4)	G91-PWD143803-4.pdf		

Type of structure or subject	Description	Width of roadway	Live load capacity	Span lengths (feet)	Drawing no.	Approved or amended date	File
Piles (cont.)	Standard 16" PSC octagonal				P.W.D. 155850	30.5.63	G92-PWD155850-1.pdf
	Standard 16" PSC sq. ended				P.W.D. 155093		G93-PWD155093-1.pdf
	Standard 16" PSC (hard driving)				P.W.D. 159161		G94-PWD159161-1.pdf
	Standard 17" octagonal				P.W.D. 153211	18.9.59	G95-PWD153211-1.pdf
	Standard 17" PSC (sq. ended)				P.W.D. 155092	30.5.63	G96-PWD155092-1.pdf
	Standard 17" sq. PSC (hard driving)				P.W.D. 159162		G97-PWD159162-1.pdf
	Standard 18" PSC octagonal				P.W.D. 155851		G98-PWD155851-1.pdf
	Standard 18" PSC (sq. ended)				P.W.D. 155091		G99-PWD155091-1.pdf
	Standard 18" sq. PSC (hard driving)				P.W.D. 159163		G100-PWD159163-1.pdf
	Standard 20" PSC (sq. ended)				P.W.D. 158718		G101-PWD158718-1.pdf
	Standard 20" sq. PSC (hard driving)				P.W.D. 160091		G102-PWD160091-1.pdf
	Steel 'H' piles inspection pipe details				GCH 6055/32	8-72	G103-GCH6055-32-1.pdf
	Civil divisional circular 1973/6	Prestressed concrete bridges: Interim standards: 80' post tensioned & 60' pretensioned units			80' - 60'	Supersedes M.O.W. 8120	7/73
Standard precast post tensioned I beam	80ft span - 4 and 5-beam systems	24'	H20-S16-T16	80'	M.O.W. 34611 (sh. 1)	7/73	G105-MOW34611-1.pdf
Standard precast pretensioned I beam	60ft span - 4-beam system			60'	M.O.W. 34611 (sh. 2)	8.9.72	G106-MOW34611-2.pdf
Standard precast I beams	Typical end diaphragm details				M.O.W. 34611 (sh. 3)	8.9.72	G107-MOW34611-3.pdf