

AASHTO T-3 TRIAL DESIGN BRIDGE LIST

No.	State	Trial Design	Design Accel. 1.0 second	SDC	Strategy	Superstructure Type	Spans	Substructure Type	Foundation	Abutments
1	Alaska	AK-1	0.454 g	"C"	Type 1	Precast, prestressed, deck bulb-tee girders	Three@120ft (36.5m)	Two 5.0ft diameter (1.524m) reinforced concrete columns per bent with a 5.9ft square (1.8m) reinforced concrete cap beam	Spread footing at one bent and drilled shaft at the second bent	Seat type founded on piles
2	Illinois	IL-1	0.849g	"D"	Type 1	Simply supported "I" girder with composite concrete deck	56.8ft-67.2ft-56.8ft (total 176.3ft)	Drop cap supported by 4 circular reinforced concrete columns	Drilled shafts at bents and abutments	Cap supported directly on drilled shafts
3	Illinois	IL-2	0.487g	"C"	Type 1	Simply supported steel wide flange with concrete deck	62.0ft-77.0ft-62.0ft (total 201.0ft)	Drop cap supported on 4 reinforced concrete columns with monolithic connections at column top and bottom	Steel piles at the abutments and bents	Seat type supported on steel piles
4	Illinois	IL-3	0.487g	"C"	Type 1	Simply supported steel plate girder composite with a concrete deck	134.5ft - 167.3ft - 134.5ft (total 436.3ft)	Tapered concrete pier wall supported on a pile cap at the bent	Steel piles at abutments and bents	Seat type supported on steel piles
5	Illinois	IL-4	0.487g	"C"	Type 1	Simply supported PPC-I beam composite with concrete deck	4@43.5ft (total 174.0ft)	Pier wall supported on pile cap at bents	Steel piles at abutments and bents	Seat type supported on steel piles
6	Illinois	IL-5	0.487g	"C"	Type 1	Simply supported PPC-I beam composite with concrete deck	3@50.0ft (total 150.0ft)	Trapezoidal pier columns supported on a deep grade beam	Steel piles at abutments and bents	Seat type supported on steel piles
7	Washington	WA-1	0.454g	"C"	Type 1	Steel box girder with composite concrete deck	Two spans 76.0m (249.3ft) and 54.5m (178.8ft)	Four rectangular 1.53m by 1.39m (5.02ft by 4.56ft) reinforced concrete columns at bent 2	Spread footings @ abutments and 3.05m (10.0ft) dia. Concrete shaft @ bent 2	Seat type abutments with abutment backwalls extending down to the footing
8	Washington	WA-2	0.679g	"D"	Type 1	Continuous prestressed precast girders (W83G) composite with reinforced concrete deck	Five spans @180.0ft each	Two 6.0ft dia. Reinforced concrete columns per bent integral with superstructure	Abutments 2.0ft dia. Reinforced concrete piles with steel casing and at bents 10.0ft shafts	Seat type cantilevered from pile supported footing
9	Missouri	MO-1	0.25g	"B" however "D" assumed for trial design	Type 1	Continuous steel plate girder with composite concrete deck	Four spans(ft) 29.5 -125.3 - 125.3 -29.5 and reinforced concrete end slab approach	Three reinforced concrete columns at Bent 2	Cast-in-place reinforced concrete piles	Seat type supported on a pile cap
10	Missouri	MO-2	0.86g	"D"	Type 1	Prestressed precast concrete "I" girder	Three spans @ 59.2ft - 60.0ft - 59.2ft	Three 3.0ft dia. reinforced concrete columns per bent	Cast-in-place reinforced concrete piles with 14 in dia. steel casing	Integral diaphragm wall supported on 14 inch dia. CIP pile
11	Tennessee	TN-1	0.37g	"C"	Type 1	Continuous steel girder with composite concrete deck	Three spans @ 120.0ft - 210.0ft -120.0ft	Two 4.0ft dia. concrete columns per bent	Prestressed concrete friction piles	Integral on prestressed concrete friction piles
12	Tennessee	TN-2	0.35g	"C"	Type 1	Continuous steel welded plate girder with composite concrete deck	Three spans @ 105.0ft - 216.0ft -105.0ft	Three 3.5ft dia. concrete columns per bent	Prestressed concrete friction piles	Integral on prestressed concrete friction piles
13	Tennessee	TN-3	0.348g	"C"	Type 1	Prestressed precast AASHTO Type II I-beams with composite concrete deck	Three spans @ 40.0ft - 60.0ft - 48.0ft	Four 3.0ft dia. concrete columns per bent	Prestressed concrete friction piles	Integral on prestressed concrete friction piles

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14	Arkansas	AR-1	0.67g	"D" and a Critical Bridge	Type 2	Continuous composite W-Beam Units	66' -88' -88' -66'	Multi-column intermediate bents; cap and seat end bents	Pile footing (intermediate bents)	Standard cap-seat end bents supported by steel shell pile
15	Arkansas	AR-2	0.533g	"D"	Type 1	Continuous composite W-Beam Units	28' -34' -28'	Trestle pile bent	Steel shell friction piles	Integral pile bent
16	Montana	MT-1	0.366G	"C"	Type 1	Continuous rolled steel girder	95.125' -123' -95.125'	6.0ft dia. Single drilled shaft/column piers	6.0ft dia. Prismatic drilled shafts	Semi-integral stub abutment on driven piles
17	Montana	MT-2	0.29g	"B"	Type 1	Continuous rolled steel girder	95.125' -123' -95.125'	6.0ft dia. Single drilled shaft/column piers	6.0ft dia. Prismatic drilled shafts	Semi-integral stub abutment on driven piles
18	California	CA-1	0.97g	"D"	Type 1	Continuous prestressed reinforced concrete box girder	Three spans 126ft - 168ft - 118ft	Two 6.0ft dia. Reinforced concrete columns per pier	Pile	Seat type supported on piles
19	Nevada	NV-1	0.53g	"C"	Type 1	Post-tensioned Cast-in-place concrete Box girder	135ft(41.1m) -130ft(39.6m) - 130ft(39.6m)	Three 5.0ft (1.524m) dia. reinforced concrete columns per bent with Integral Cap	Spread footings, continuous, founded on 18in. (457mm) steel pipe piles	Diaphragm on 18in. (457mm) driven piles