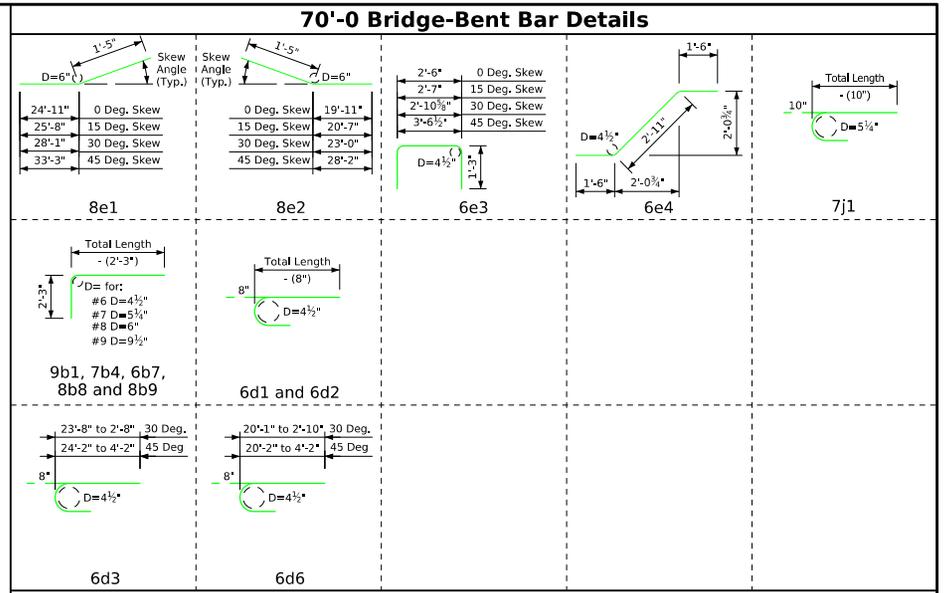


Epoxy Steel Reinforcing for Superstructure-70' Bridge													
Location	Degree Skew		0		15		30		45		Weight		
	Bar	No.	Length	Weight	No.	Length	Weight	No.	Length	Weight			
Slab Longitudinal Bottom	7a1	53	14'-6"	1571	53	14'-6"	1571	53	14'-6"	1571	53	14'-6"	1571
Slab Longitudinal Bottom	8a2	53	23'-2"	3279	53	23'-2"	3279	53	23'-2"	3279	53	23'-2"	3279
Slab Longitudinal Bottom	7a3	53	22'-6"	2438	53	22'-6"	2438	53	22'-6"	2438	53	22'-6"	2438
Slab Longitudinal Bottom	8a4	52	18'-0"	2500	52	18'-0"	2500	52	18'-0"	2500	52	18'-0"	2500
Slab Longitudinal Bottom	7a5	26	21'-1"	1121	26	21'-1"	1121	26	21'-1"	1121	26	21'-1"	1121
Slab Longitudinal Bottom, at Rail	7a6	8	25'-2"	412	8	25'-2"	412	8	25'-2"	412	8	25'-2"	412
Slab Longitudinal Bottom, at Rail	7a7	4	27'-4"	224	4	27'-4"	224	4	27'-4"	224	4	27'-4"	224
Slab Longitudinal Bottom, at Rail	8a8	8	19'-2"	410	8	19'-2"	410	8	19'-2"	410	8	19'-2"	410
Slab Longitudinal Bottom, at Rail	8a9	4	24'-3"	259	4	24'-3"	259	4	24'-3"	259	4	24'-3"	259
Slab Longitudinal Top	9b1	53	7'-11"	1427	53	7'-11"	1427	53	7'-11"	1427	53	7'-11"	1427
Slab Longitudinal Top	8b2	53	12'-11"	1828	53	12'-11"	1828	53	12'-11"	1828	53	12'-11"	1828
Slab Longitudinal Top	8b3	53	9'-0"	1274	53	9'-0"	1274	53	9'-0"	1274	53	9'-0"	1274
Slab Longitudinal Top	7b4	52	22'-4"	2374	52	22'-4"	2374	52	22'-4"	2374	52	22'-4"	2374
Slab Longitudinal Top	8b5	52	11'-7"	1609	52	11'-7"	1609	52	11'-7"	1609	52	11'-7"	1609
Slab Longitudinal Top	6b6	26	22'-8"	886	26	22'-8"	886	26	22'-8"	886	26	22'-8"	886
Slab Longitudinal Top	6b7	53	21'-9"	1732	53	21'-9"	1732	53	21'-9"	1732	53	21'-9"	1732
Slab Longitudinal Top, at Rail	8b8	8	39'-11"	853	8	39'-11"	853	8	39'-11"	853	8	39'-11"	853
Slab Longitudinal Top, at Rail	8b9	8	29'-0"	620	8	29'-0"	620	8	29'-0"	620	8	29'-0"	620
Slab Transverse Bottom	6c1	67	24'-4"	2449	67	24'-4"	2449	67	24'-4"	2449	67	24'-4"	2449
Slab Transverse Bottom	6c2	67	21'-3"	2139	67	21'-3"	2139	67	21'-3"	2139	67	21'-3"	2139
Slab Transverse Ends, Bottom	6c3	-	-	-	-	-	-	13	VARIABLES	262	21	VARIABLES	447
Slab Transverse Ends, Bottom	6c4	-	-	-	-	-	-	11	VARIABLES	235	20	VARIABLES	386
Slab Transverse Ends, Bottom	6c5	-	-	-	-	-	-	10	VARIABLES	173	17	VARIABLES	298
Slab Transverse Ends, Bottom	6c6	-	-	-	-	-	-	11	VARIABLES	191	17	VARIABLES	311
Slab Transverse Top	6d1	67	25'-10"	2600	67	25'-10"	2600	67	25'-10"	2600	67	25'-10"	2600
Slab Transverse Top	6d2	67	21'-11"	2206	67	21'-11"	2206	67	21'-11"	2206	67	21'-11"	2206
Slab Transverse Ends, Top	6d3	-	-	-	-	-	-	13	VARIABLES	271	20	VARIABLES	466
Slab Transverse Ends, Top	6d4	-	-	-	-	-	-	11	VARIABLES	247	20	VARIABLES	411
Slab Transverse Ends, Top	6d5	-	-	-	-	-	-	10	VARIABLES	173	17	VARIABLES	298
Slab Transverse Ends, Top	6d6	-	-	-	-	-	-	11	VARIABLES	202	17	VARIABLES	328
Slab, Transverse at Abutment	8e1	18	26'-4"	1266	18	27'-1"	1302	18	29'-6"	1418	18	34'-8"	1667
Slab, Transverse at Abutment	8e2	18	21'-4"	1026	18	22'-0"	1058	18	24'-5"	1174	18	29'-7"	1422
Slab, Hairpins, at Abutment	6e3	92	5'-0"	691	92	5'-1"	703	92	5'-5"	749	92	6'-1"	841
Slab, Diagonal, at Abutment	6e4	92	5'-11"	818	92	5'-11"	818	92	5'-11"	818	92	5'-11"	818
Top of Slab, Transverse, at Rail	7j1	132	8'-3"	2226	132	8'-3"	2226	132	8'-3"	2226	132	8'-3"	2193
Wing, Vertical	5m1	40	4'-5"	185	40	4'-5"	185	40	4'-5"	185	40	4'-5"	185
Wing, Horizontal Back Face	5n1	48	6'-8"	334	48	6'-8"	334	48	6'-8"	334	48	6'-8"	334



Stainless Steel Reinforcing for Superstructure					
(All Skews)					
Location	Shape	Bar	No.	Length	Weight
Abutment Paving Notch Bar		8u1	40	2'-1"	223

8u1 bars are to be paid for under the price bid for "Reinforcing Steel, Stainless Steel". Weight = lbs.

Estimated Quantities for Superstructure 70' Bridge

Item	Monolithic Cap				Non-Monolithic Cap			
	0°	15°	30°	45°	0°	15°	30°	45°
With Single-Slope Rail								
* Structural Concrete (Bridge) (c.y.)	160.4	161.2	163.6	169.0	163.8	164.6	167.5	173.6
Reinf. Steel Epoxy Coated (lbs.)	44,163	44,562	45,004	45,477	44,163	44,562	45,004	45,477
Δ Reinf. Steel Stainless Steel (lbs.)	1888	1888	1888	1888	1888	1888	1888	1888
Concrete single-slope barrier or open rail (lin.ft.)	162.0	162.2	162.9	164.5	162.0	162.2	162.9	164.5
With Open Rail								
* Structural Concrete (Bridge) (c.y.)	160.3	161.1	163.4	168.9	163.6	164.5	167.3	173.5
Reinf. Steel Epoxy Coated (lbs.)	44,823	45,222	45,664	46,137	44,823	45,222	45,664	46,137
Δ Reinf. Steel Stainless Steel (lbs.)	1795	1795	1795	1795	1795	1795	1795	1795

* Includes 4 wings at 1.114 cubic yard each; excludes rail concrete.
 Δ Includes abutment paving notch bar weight.

Note:
 See J40-26-25 Sheet for Monolithic Pier Cap reinforcing details and quantities.
 See J40-28-25 Sheet for Non-Monolithic Pier Cap reinforcing details and quantities.

Latest Revision Date Approved By Bridge Engineer	IOWA DOT
	Standard Design-40'-0" Roadway, 3 Span Bridge Continuous Concrete Slab Bridge July, 2025
	Superstructure Details 70'-0" Bridge Quantities J40-03-25