

TIME / COST COMPARISON

PRESTRESSED SLAB BRIDGE (from CPM schedule)	DAYS
Set prestressed slabs	1
Form concrete curbs	1
Place concrete curbs	1
Curing concrete curbs / Fabricate & place deck steel	2
Set up concrete screed machine	1
Place concrete deck	1
Cure concrete deck	7
Install railings and groove deck	1
TOTAL TIME TO CONSTRUCT SUPERSTRUCTURE =	15

STEEL BEAM BRIDGE (estimated)	DAYS
Set steel beams	1
Install deck forms	1
Install shear studs	1
Install deck steel	2
Set up concrete screed machine	1
Place concrete deck	1
Cure concrete deck	7
Form concrete curbs	1
Place concrete curbs	1
Cure concrete curbs	3
Install railings and groove deck	1
TOTAL TIME TO CONSTRUCT SUPERSTRUCTURE =	20

TOTAL TIME SAVINGS =

5 days

PRESTRESSED SLAB BRIDGE (actual costs)	COSTS
Prestressed slabs	\$ 264,000.00
Superstructure concrete	\$ 84,000.00
Metal railing	\$ 32,000.00
TOTAL COST TO CONSTRUCT SUPERSTRUCTURE =	\$ 380,000.00

STEEL BEAM BRIDGE (estimated)	COSTS
Structural Steel	\$ 220,000.00
Superstructure concrete (8" deck)	\$ 115,000.00
Superstructure Reinforcing Steel	\$ 24,000.00
Shear Studs	\$ 5,000.00
Metal railing	\$ 32,000.00
TOTAL COST TO CONSTRUCT SUPERSTRUCTURE =	\$ 396,000.00
ROAD USER COSTS (\$9,000/DAY) =	\$ 45,000.00
	\$ 441,000.00

TOTAL COST SAVINGS = \$ 61,000