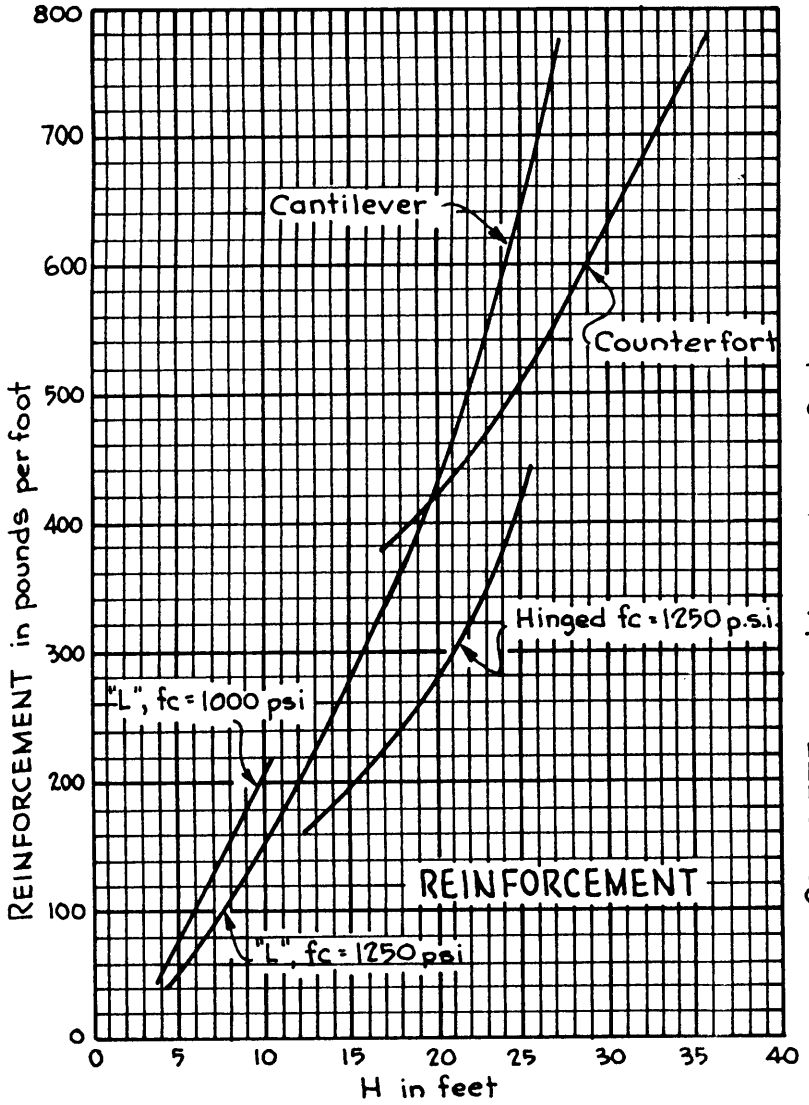
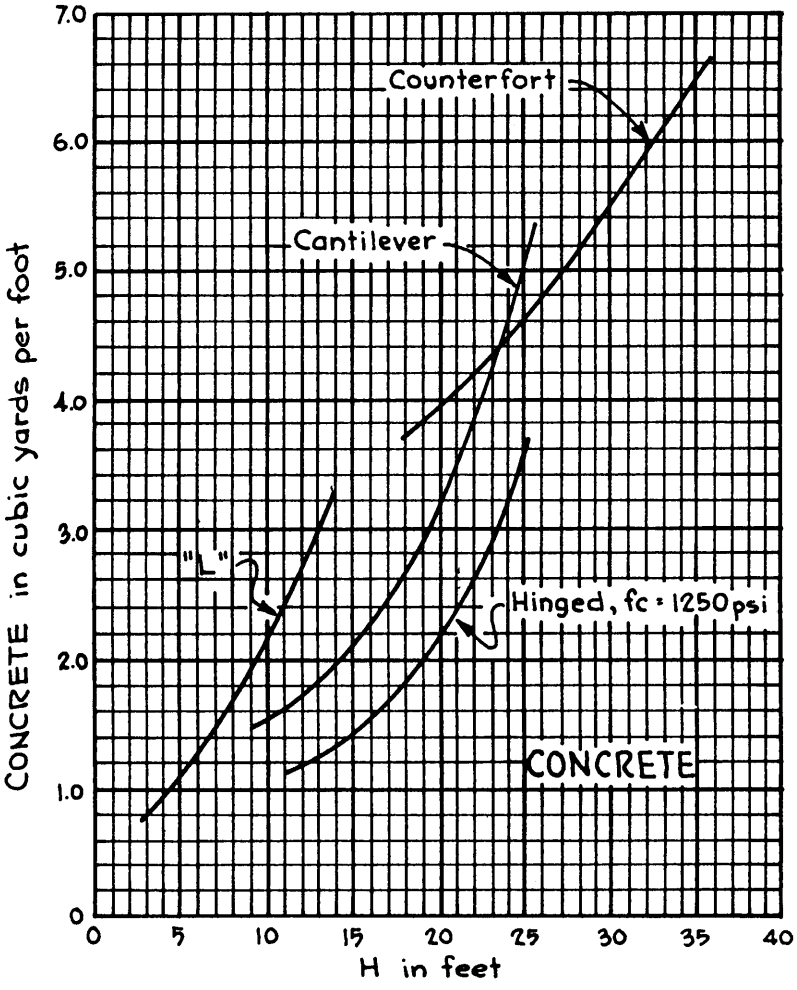
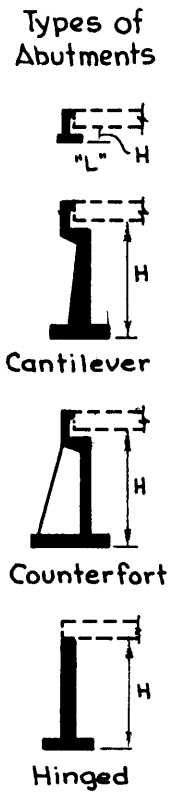






Loading: H20-S16-44.
f_s = 20,000 p.s.i.
f_c = Curves for 1,000 p.s.i. and 1,250 p.s.i. unless noted.

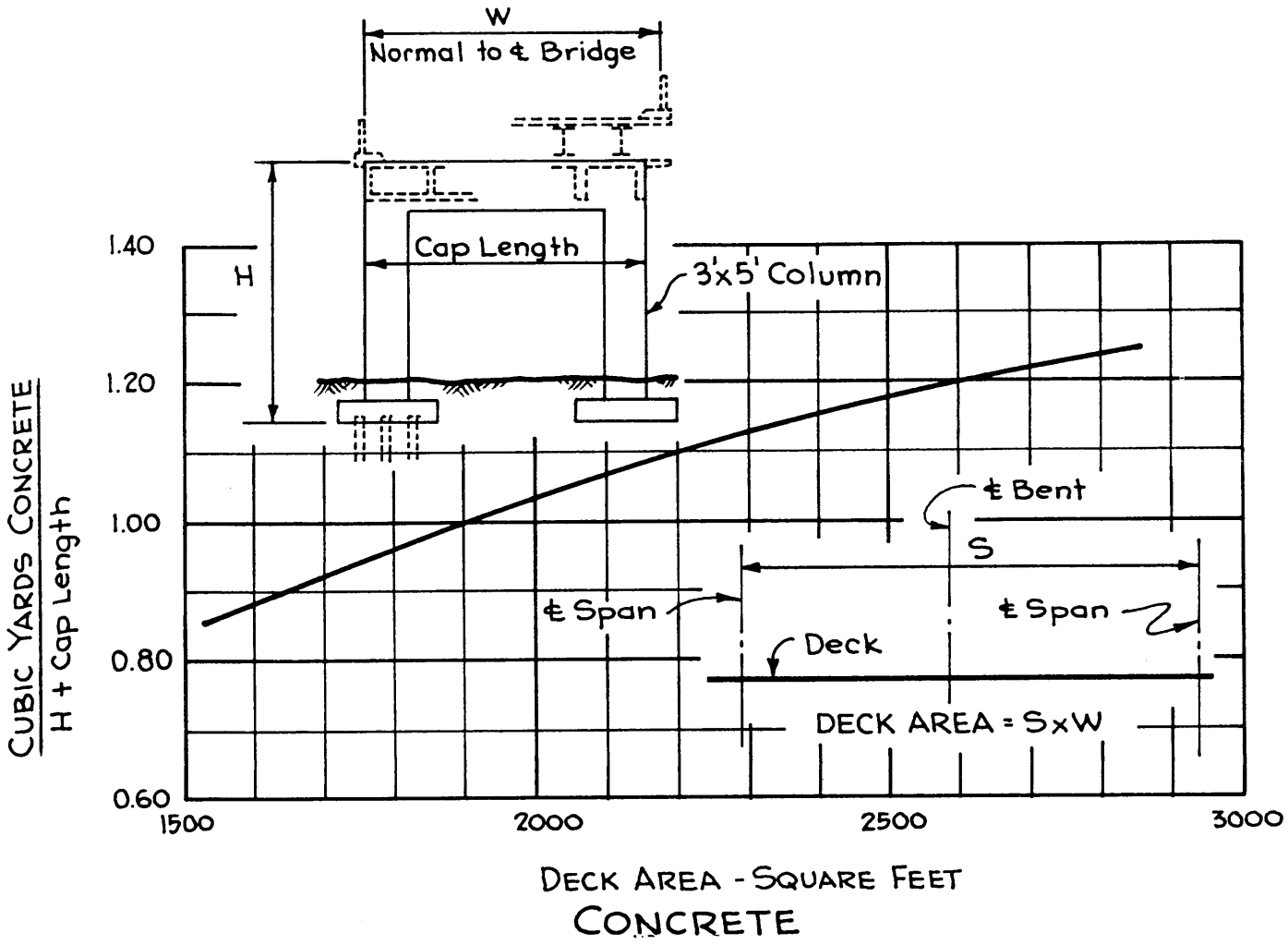
NOTES

1. To obtain the total quantity of concrete in cu. yds. and the total quantity of reinforcement in pounds for an abutment, multiply the values from the graphs by the rail to rail distance for the bridge in feet measured along the abutment layout line.
2. Footings and corner stub walls included. Tremie seals are not included.
3. "H" is the average value for the abutment.
4. Quantities good for spread and pile foundations. Use for T-beam and box girder.

PRELIMINARY QUANTITY SURVEYS

BENTS

TEE BEAM-BOX GIRDER AND STEEL BEAM BRIDGES



Deck Area—Sq. Ft.

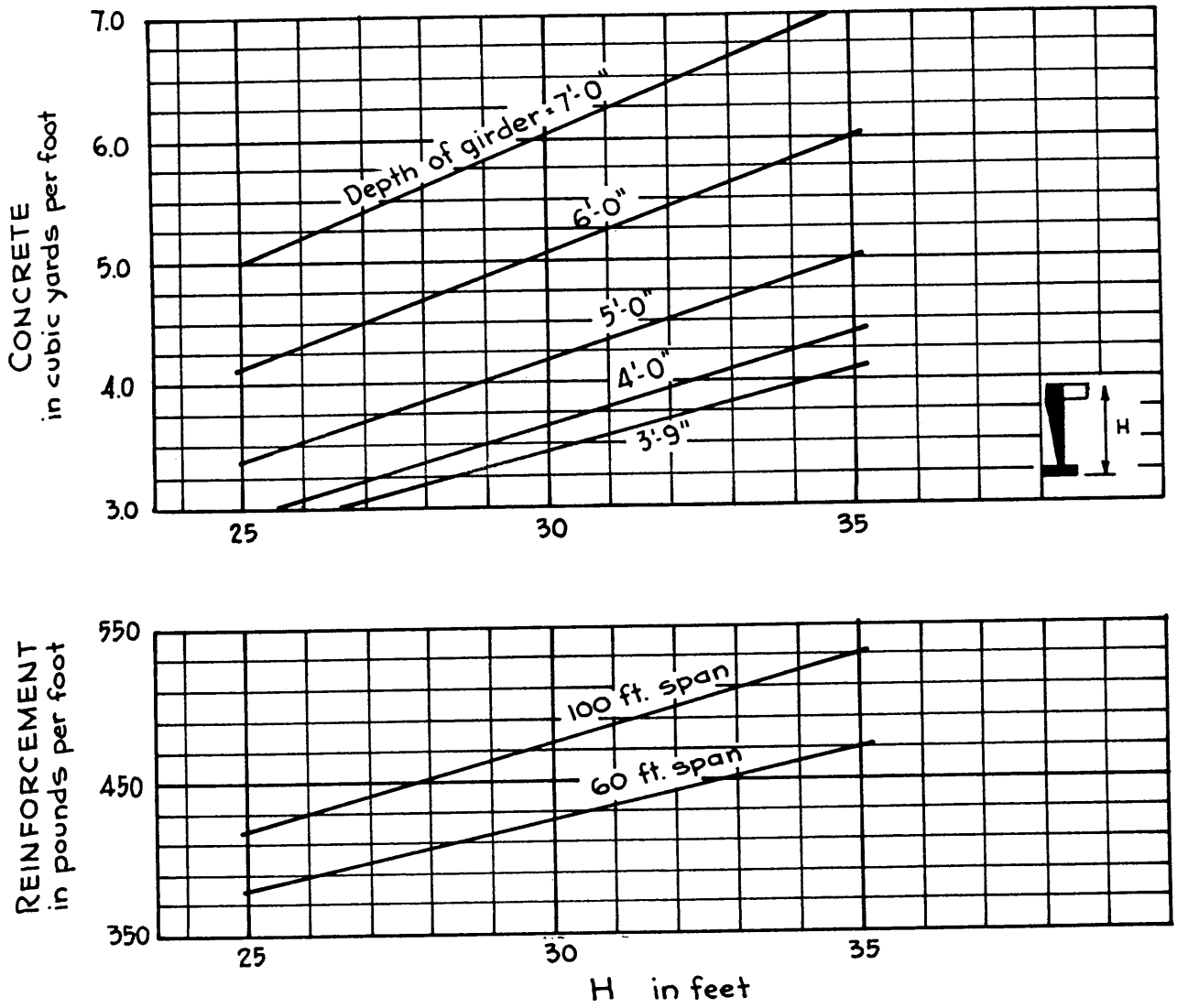
NOTES

Bent quantities are for tee beam, box girder and steel beam bridges only.
Quantities are for one bent only.
Quantities include cap, columns and footings but not tremie seal.
To obtain the c.y. of concrete for bent, multiply the value from the graph by the sum of H + cap length.
Reinforcement is 165 lbs/c.y. concrete.

Loading: H20 S16 44.
f_c = 1,000 psi or 1,250 psi.
f_s = 20,000 psi.

PRELIMINARY QUANTITY SURVEYS

RIGID FRAME ABUTMENTS



NOTES

1. To obtain the total quantity of concrete in cu. yds., and the total quantity of reinforcement in pounds for an abutment, multiply the values from the graphs by the rail to rail distance for the bridge in feet measured along the abutment layout line.
2. Quantities include footings, corner stub walls, and the abutment wall to the deck.
3. "H" is the average value for the abutment.
4. Quantities good for spread and pile foundations.

Loading: H20-S16-44.
$f_s = 20{,}000$ p.s.i.
$f_c = 1{,}250$ p.s.i.