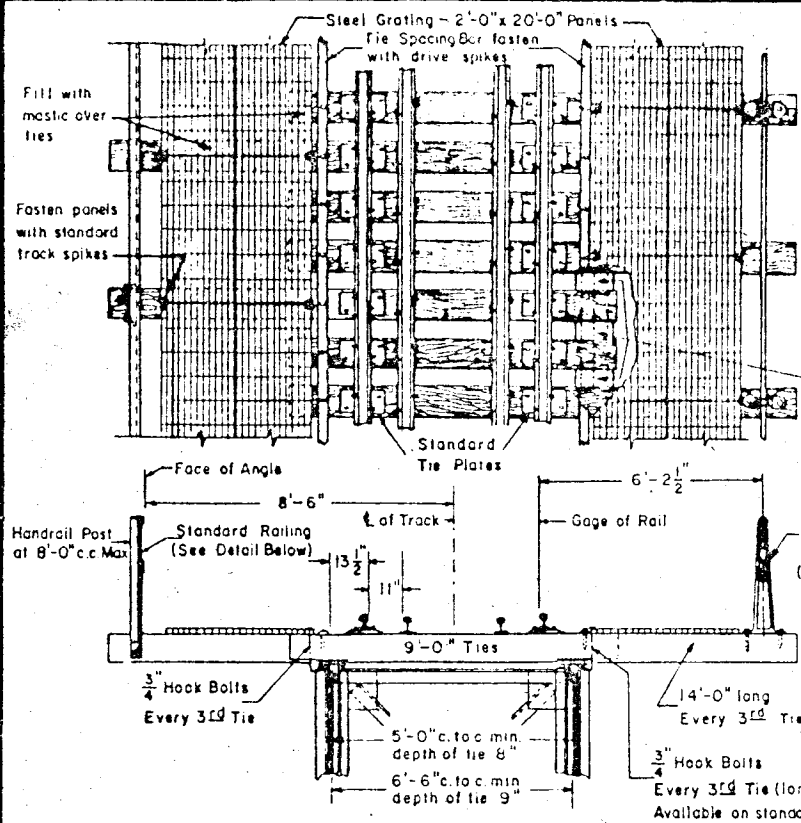
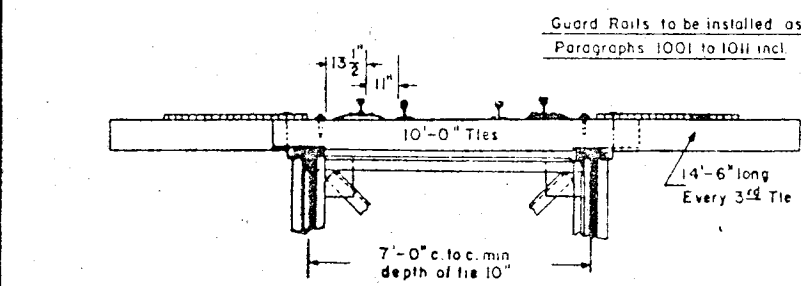




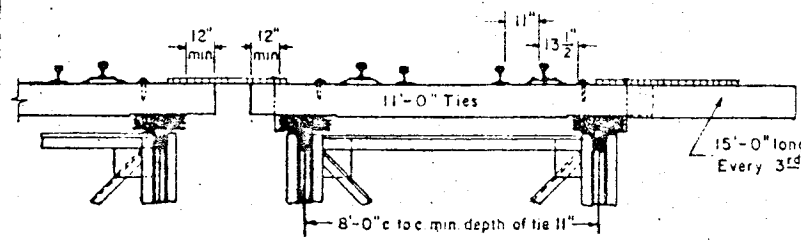
DRIVE SPIKE

Cone Neck (Galvanized)

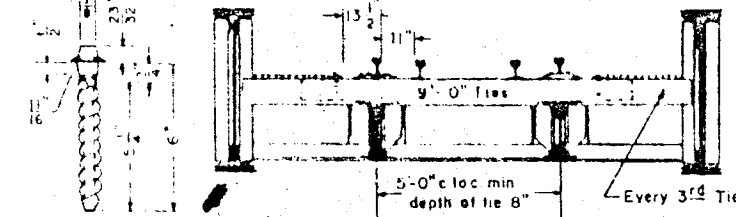
Spacing Blocks (Typical Application)
Fasten blocks to ties with 10" nails. Jack ties and spacing blocks tight before applying tie spacing bar.



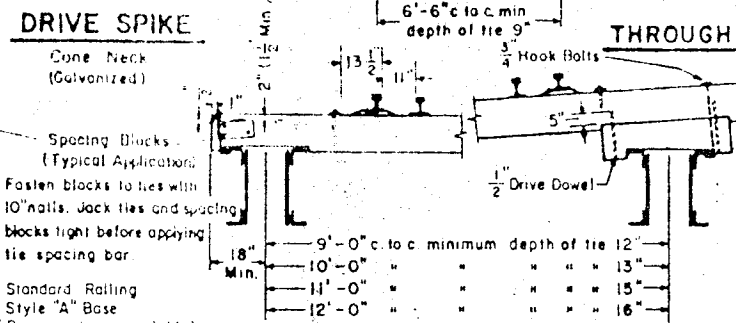
SINGLE TRACK DECK PLATE GIRDER BRIDGES



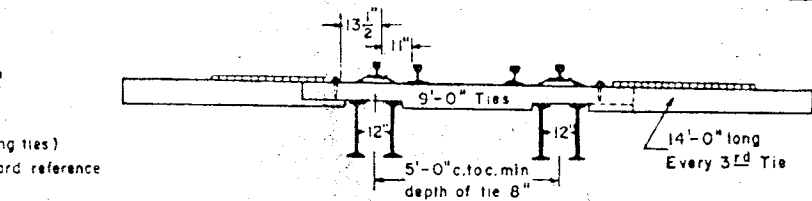
DOUBLE TRACK DECK PLATE GIRDER BRIDGES



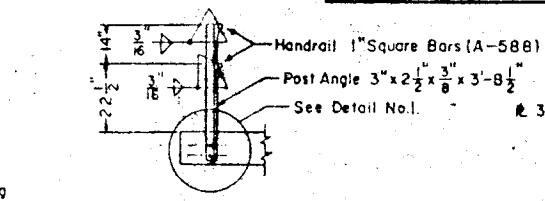
THROUGH PLATE GIRDER BRIDGES



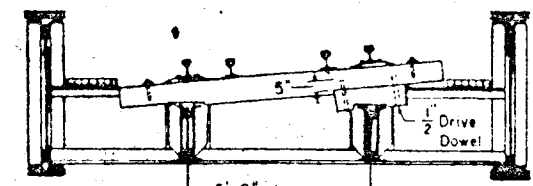
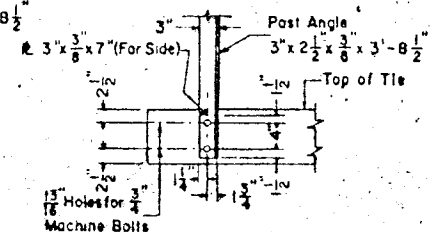
DECK TRUSS BRIDGES



I BEAM BRIDGES



HANDRAIL DETAIL STANDARD ANGLE POST (A.S.T.M. Specs A-588)



TIE SPACING BAR

Spacing blocks shown with W=7" will provide 16" spacing with 9" wide ties and should be shown on requisition as 7" spacing block.

In order to space ties and miss cover plates on deck girder bridges or to fit ties on stringers between floor beams, it may be necessary to provide spacing blocks less than 7" wide. Spacing blocks may be ordered with "W" dimension varying from 4" to 7" by 1" increments. The "W" dimension will provide the name of the spacing block and should be shown accordingly on requisition. For Example: 4" block-W=4", 5" block-W=5", 6" block-W=6" or 7" block-W=7".

Blocks are to be used on main line bridges or major secondary lines. Eliminate on sidings or minor lines where conventional rail will be used.

SPACING BLOCKS

NOTES

- 1 - All bridge ties shall be 9" wide on top and spaced on 16" center to center.
- 2 - The depth of tie (undapped) at middle of span shall be as shown. After dapping the minimum depth remaining over cover plates shall be equal to specified depth of tie less 1/2 inch. The maximum dap shall be 1/2 inch.
- 3 - Ties shall be ordered in inch depth. Requisitions must be accompanied by detailed plans for framing timbers.
- 4 - On curves, the super-elevation of track up to 2 inches shall be obtained by the use of beveled ties. Additional elevation shall be obtained by the use of raising blocks under ties, fastened with 1/2 inch drive dowels extending not less than 5" into tie.
- 5 - On a through bridge, a space of at least 1 inch must be provided between the tie and the floor beam to permit debris to be cleaned off the floor beam.
- 6 - Steel grating shall be A-588, with carrying bars a minimum of 1 1/4" x 3/16" at 1 3/16" o.c. and 5/16" square cross bars 4" o.c., welded construction, with all ends banded. Use 2'-0" x 20'-0" panels where possible.
- 7 - Drive spikes, track spikes and grating spikes shall be driven into prebored holes.
- 8 - Planking shall be used between rails only where required to protect public highway.

PENN CENTRAL
STANDARD

**TIMBER DECK WITH STEEL GRATING FOOTWALKS
STEEL BRIDGES AND TURNABLES**

APRIL, 1970

Chief Engineer
Chief Engineer - Maintenance of Way

Chief Engineer
Chief Engineer - Maintenance of Way

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