WIRE LINES WITH LESS THAN 750 VOLTS IN NON-ELECTRIFIED TERRITORY
27'-0" ABOVE TOP OF RAIL MINIMUM
(IN ELECTRIFIED TERRITORY--35'-0" ABOVE TOP OF RAIL MINIMUM)
(SEE MW RULE 54.1 FOR HIGHER VOLTAGES)

45° ANGLE

20'-0" DOORWAYS AT RAILROAD SHOPS AND SERVICING FACILITIES
9'-0" WATER AND FUELING COLUMNS
9'-0" MINIMUM CLEARANCE OUTLINE
12'-4" MINIMUM SIGNS (NOTE 5)
15'-0" FOR MAIN TRACK
10'-0" FOR SIDE TRACK
7'-0" DOORWAYS AT RAILROAD SHOPS AND SERVICING FACILITIES
6'-9" CATTLE GUARD AT TOP OF RAIL
6'-0" BRIDGES AT TOP OF RAIL
5'-0" Switch stands located between tracks
TOP OF RAIL

5'-0"
6'-0"

23'-4" ABOVE TOP OF RAIL-MINIMUM STRUCTURE HEIGHT
12'-5" R
5'-2 3/8"

GENERAL NOTES (SEE PAGE 3 FOR TRACK NOTES):

1. ALL STRUCTURES OR FACILITIES NOT SHOWN MUST BE AT LEAST 9'-0" FROM THE CENTER LINE OF TRACK AND AT LEAST 23'-4" ABOVE THE TOP OF RAIL.

2. CLEARANCES FOR STRUCTURES OR FACILITIES ON CURVES MUST BE INCREASED LATERALLY ON EACH SIDE 1 1/2" PER EACH DEGREE OF CURVATURE, EXTENDING TO 80'-0" BEYOND THE END OF THE CURVE.

3. ANY FACILITIES FALLING WITHIN THESE DIMENSIONS WILL BE CONSIDERED IMPAIRED CLEARANCE, SUBJECT TO AGREEMENT, AND MUST BE APPROVED PRIOR TO CONSTRUCTION BY UNION PACIFIC RAILROAD'S OFFICE OF THE CHIEF ENGINEER OF DESIGN.

4. WHERE STATE OR LOCAL LAWS REQUIRE GREATER CLEARANCES THAN SHOWN HERE, THOSE LAWS SHALL PREVAIL.

5. SIGNS FOR INTERIOR MAIN TRACKS IN MULTIPLE MAIN TRACK TERRITORY WILL BE A MINIMUM OF 9'-0" FROM CENTER OF TRACK.

THROUGH RAILROAD OWNED STRUCTURES AND FACILITIES
WIRE LINES WITH LESS THAN 750 VOLTS IN NON-ELECTRIFIED TERRITORY
27'-0" ABOVE TOP OF RAIL MINIMUM
(IN ELECTRIFIED TERRITORY--35'-0" ABOVE TOP OF RAIL MINIMUM)
(SEE M/W RULE 54.1 FOR HIGHER VOLTAGES)

23'-4" MINIMUM ALL OVERHEAD STRUCTURES
26'-0" IN ELECTRIFIED TERRITORY
9'-0" ALL BUILDINGS OR STRUCTURES INCLUDING ALL PROTRUSIONS
(DOWN SPOUTS, OPEN DOORS OR WINDOWS ETC.)

POLES
15'-0" FOR MAIN TRACKS
10'-0" FOR SIDE TRACKS

9'-0" UNLOADING COLUMNS
12'-4" MINIMUM SIGNS

9'-0" STOCKYARD FACILITIES MORE THAN 4'-0"
ABOVE TOP OF RAIL

9'-0" PLATFORMS OR DOCKS ADJACENT TO SPUR TRACKS
STORED MATERIAL
20'-0" MAIN TRACKS
12'-0" FOR SIDE TRACKS

TOP OF RAIL

THROUGH INDUSTRY OWNED STRUCTURES AND FACILITIES

TRACK NOTES (SEE PAGE 1 FOR GENERAL NOTES):

TRACK CENTERS:
1. TWO OR MORE MAIN TRACKS WILL BE A MINIMUM OF
   15'-0" CENTER TO CENTER. SIDE TRACKS
   ADJACENT TO A MAIN TRACK WILL BE A MINIMUM OF
   15'-0" CENTER TO CENTER.
2. ANY TWO OR MORE SIDE OR INDUSTRY TRACKS WILL
   BE A MINIMUM OF 14'-0" CENTER TO CENTER.
3. LADDER TRACKS AND ANY ADJACENT TRACK WILL BE A
   MINIMUM OF 20'-0" CENTER TO CENTER.
4. TEAM TRACKS IN PAIRS MAY BE A MINIMUM OF
   13'-0" CENTER TO CENTER.
5. ELECTRIFIED TERRITORY REFERS TO TRACKS WHERE
   ELECTRIC LOCOMOTIVES OPERATE.
6. ALL VERTICAL CLEARANCES ARE MEASURED FROM
   THE TOP OF HIGHEST RAIL.
7. FOR INDUSTRY OWNED STRUCTURES AND FACILITIES,
   ALL HORIZONTAL CLEARANCES SHALL BE MAINTAINED
   FROM THE TOP OF RAIL.

SUPERELEVATION:
1. AN ADDITIONAL 4 1/4" HORIZONTAL CLEARANCE AT
   20'-0" ABOVE TOP OF RAIL MUST BE ALLOWED ON
   THE LOW RAIL SIDE FOR EACH ONE INCH OF
   SUPERELEVATION TAPERING TO ZERO INCHES
   ADDITIONAL CLEARANCE AT THE TOP OF RAIL.

UNION PACIFIC RAILROAD
ENGINEERING STANDARDS

STANDARD MINIMUM
OPERATING CLEARANCES

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