

Rail

New, Industrial Quality (IQ) & Relay

Light Rail

25# ASCE

30# ASCE

40# ASCE

60# ASCE

80# ASCE

85# ASCE

Crane Rail

104# CR

105# CR

135# CR

171# CR

175# CR

Industrial Railroad

115# A.R.E.A.

132# A.R.E.A.

136 # A.R.E.A.



30 lb A.S.C.E. Rail

Rail Section 3040

30 lbs per yard
 Stock Lengths 30' and 40'
 Standard Drilling 2" x 4"

Joint Bars

16 1/8" length
 7.0 lbs per pair

Area

3.00"²

Weight

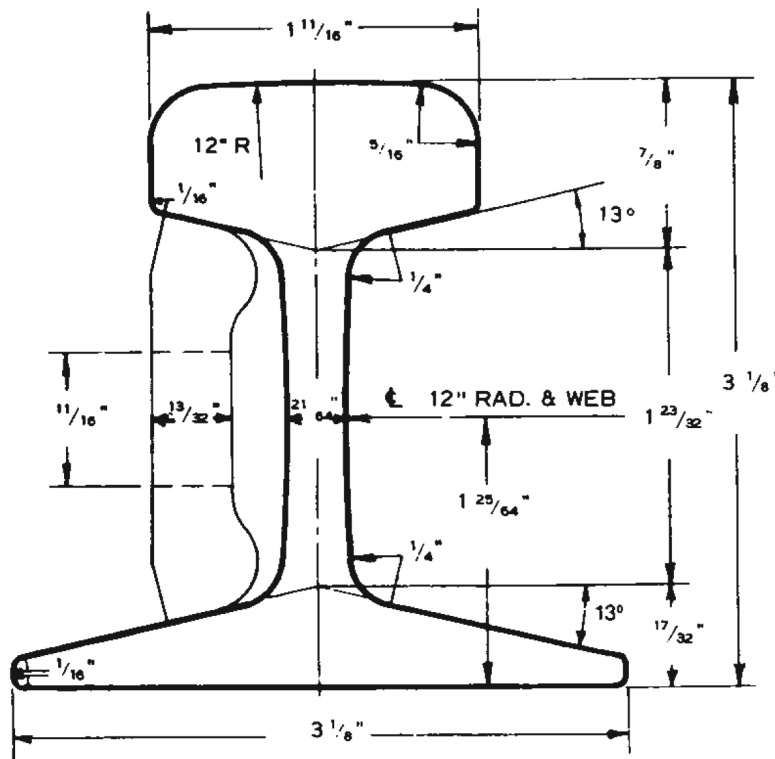
30 lbs/yd

Moment of Inertia

4.10"⁴

Section Modulus I/V (Head)

2.55"³



40 lb A.S.C.E. Rail

Rail Section 4040

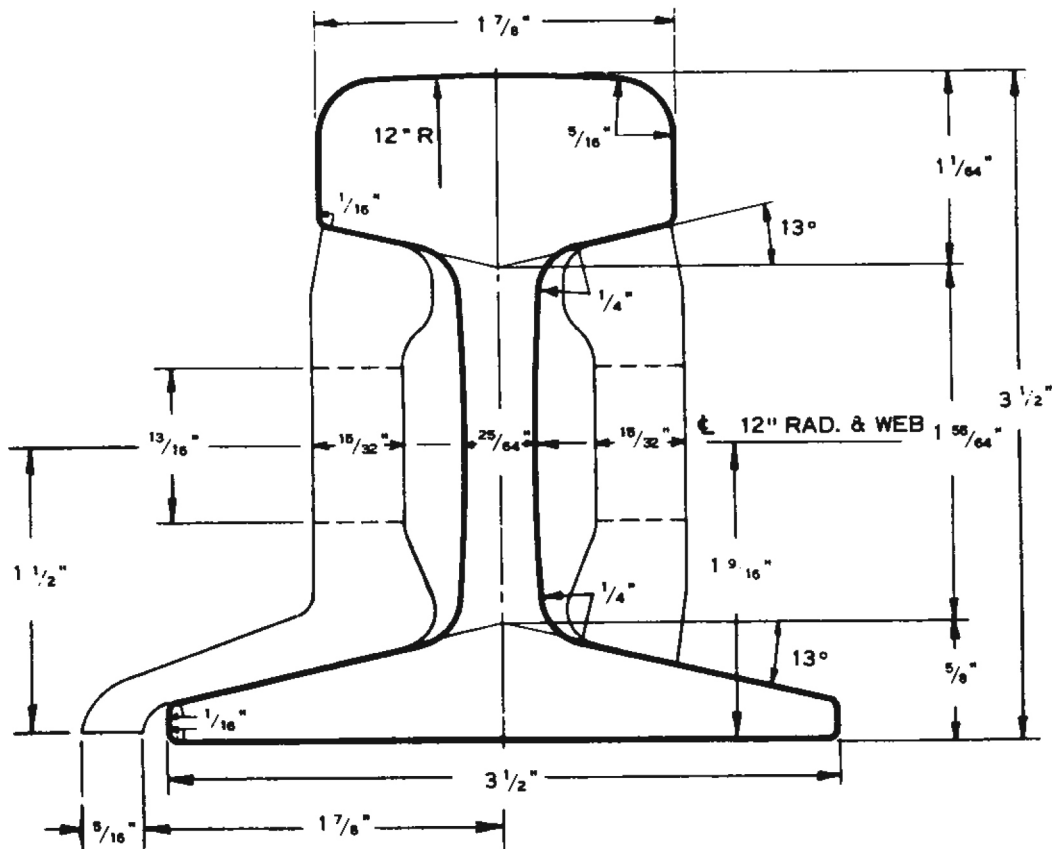
40 lbs per yard
 Stock Lengths 30' and 40'
 Standard Drilling 2-1/2" x 5"

Joint Bars

20" length
 15.2 lbs per pair (Full toe)
 12.0 lbs per pair (Toeless)

Area

3.94"²
 Weight 40 lbs/yd
 Moment of Inertia 6.54"⁴
 Section Modulus I/V (Head) 3.59"³



60 lb A.S.C.E. Rail

Rail Section 6040

60 lbs per yard

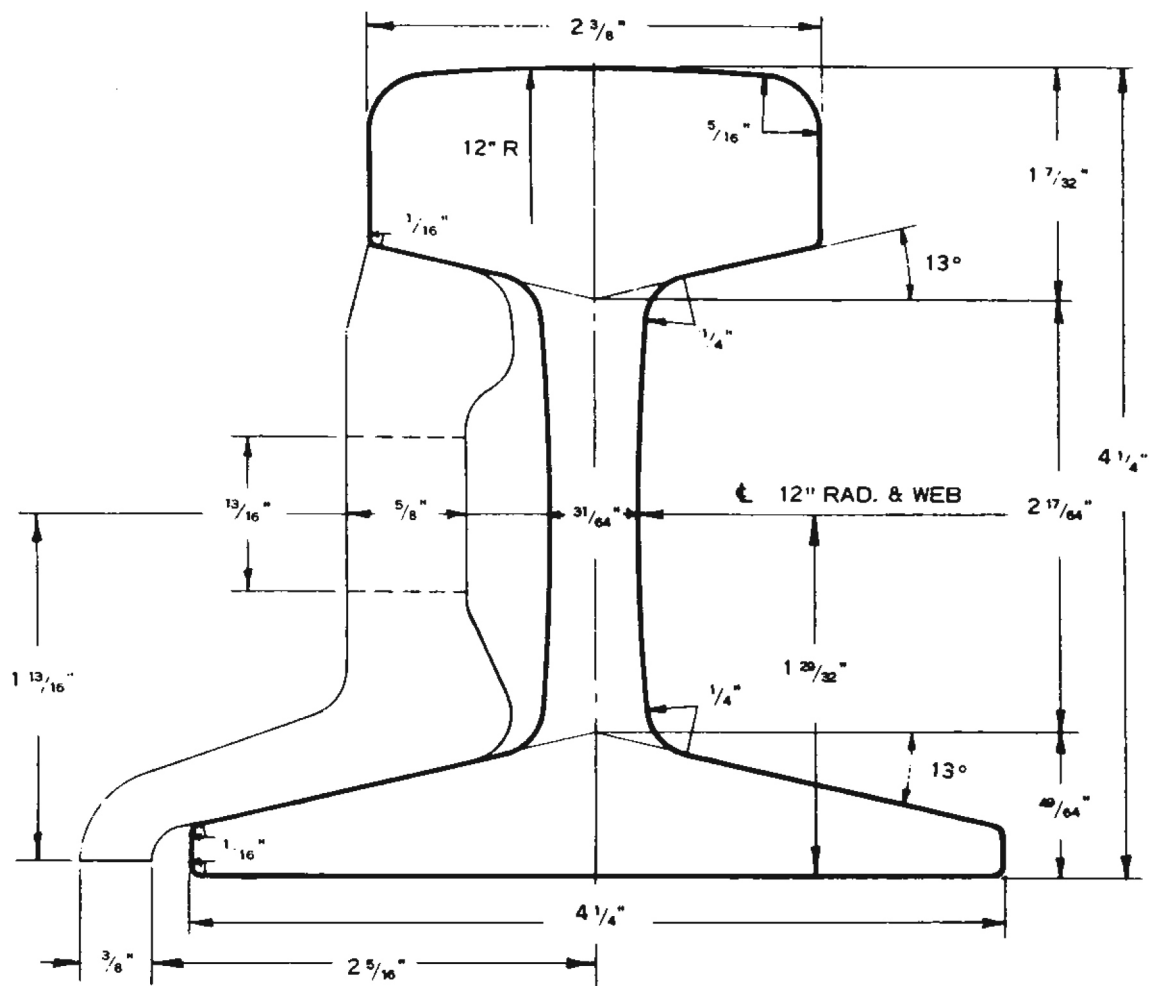
Stock Lengths 30', 33', and 40'

Standard Drilling 2-1/2" x 5"

Joint Bars

20" length

27.4 lbs per pair



80 lb A.S.C.E. Rail

Rail Section 8040

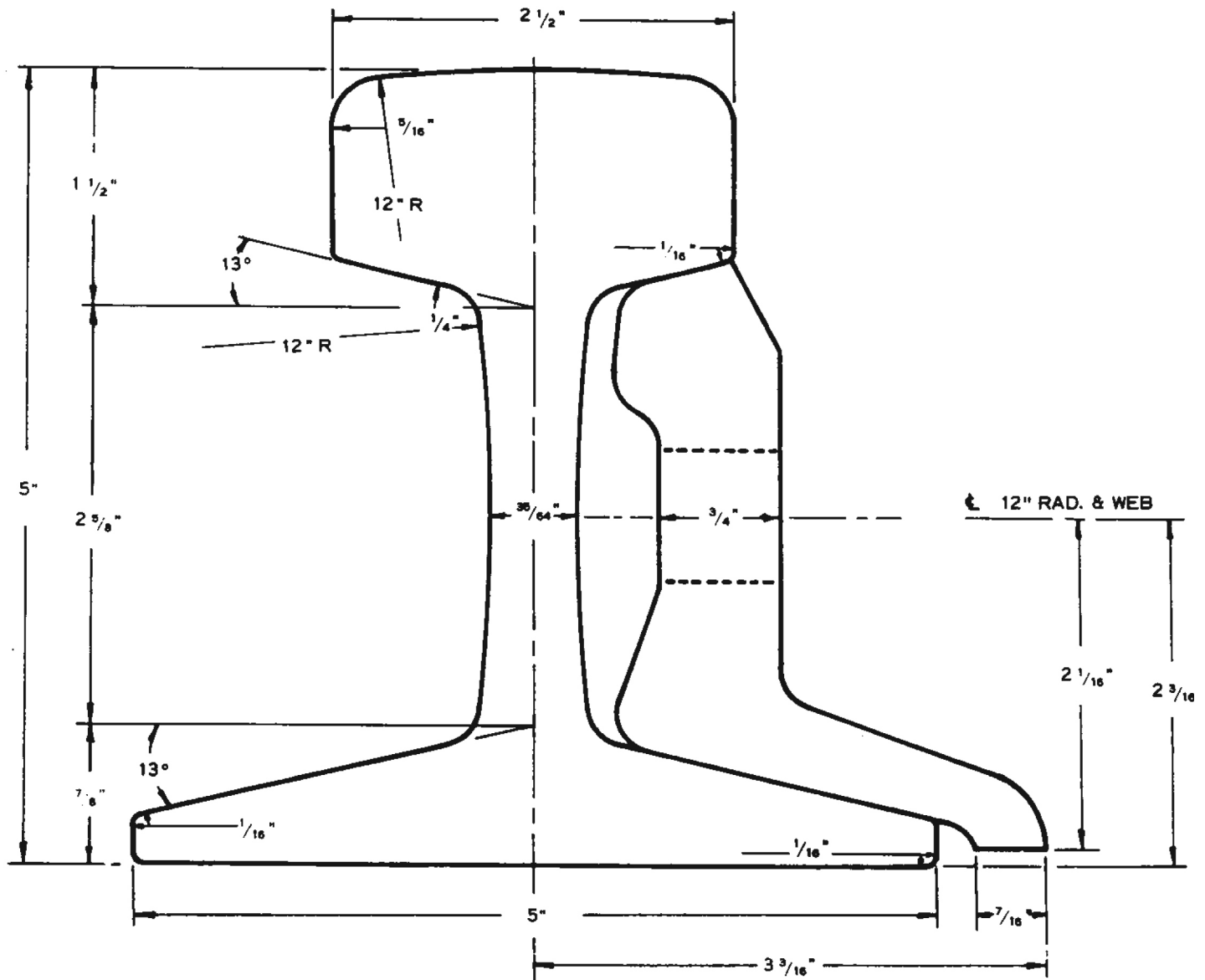
80 lbs per yard
 Stock Lengths 39' and 40'
 Standard Drilling 2-1/2" x 5"

Joint Bars

24" length
 46 lbs per pair
 34" length
 63.7 lbs per pair

Area

7.86 in.²
 Weight 80 lbs/yd
 Moment of Inertia 26.38 in.⁴
 Section Modulus I/V (Head) 10.07 in.³
 Section Modulus I/V (Base) 11.08 in.³



85 lb A.S.C.E Rail

Rail Section 8540

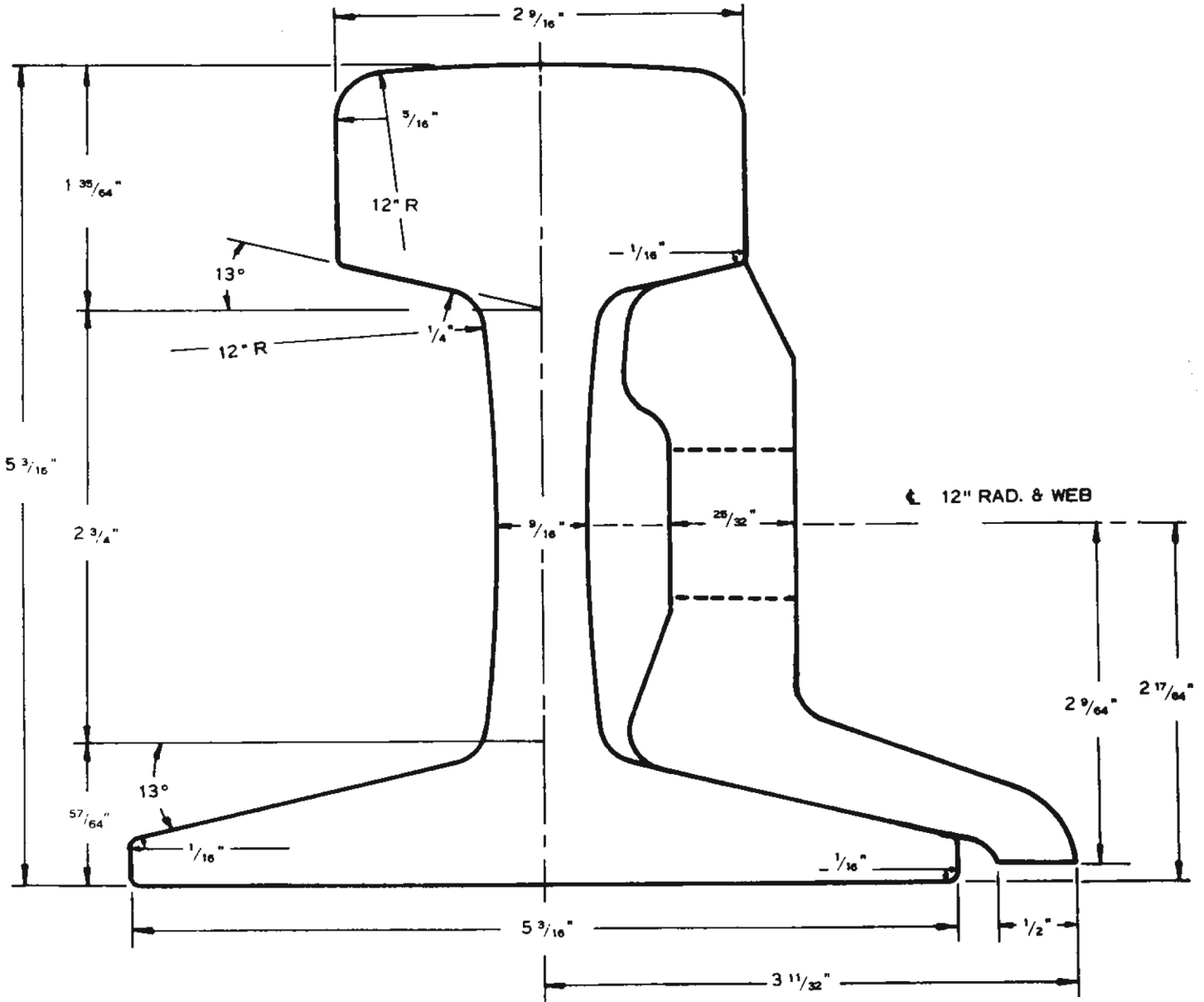
85 lbs per yard
 Stock Length 39'
 Standard Drilling 2 1/2" x 5"

Joint Bars

24" length
 49.6 lbs per pair
 34" length
 68.8 lbs per pair

Area

8.33 in.²
 Weight 85 lbs/yd
 Moment of Inertia 30.07" ⁴
 Section Modulus I/V (Head) 11.08" ³
 Section Modulus I/V (Base) 12.17" ³



104 lb Crane Rail

Rail Section 104CR

104 lbs per yard
Stock Length 39'
Standard Drilling 4" x 5" x 6"

Joint Bars

34" length
60.2 lbs per pair

Area

20.29^{m2}

Weight

104 lbs/yd

Moment of Inertia

29.84^{m4}

Section Modulus I/V (Head)

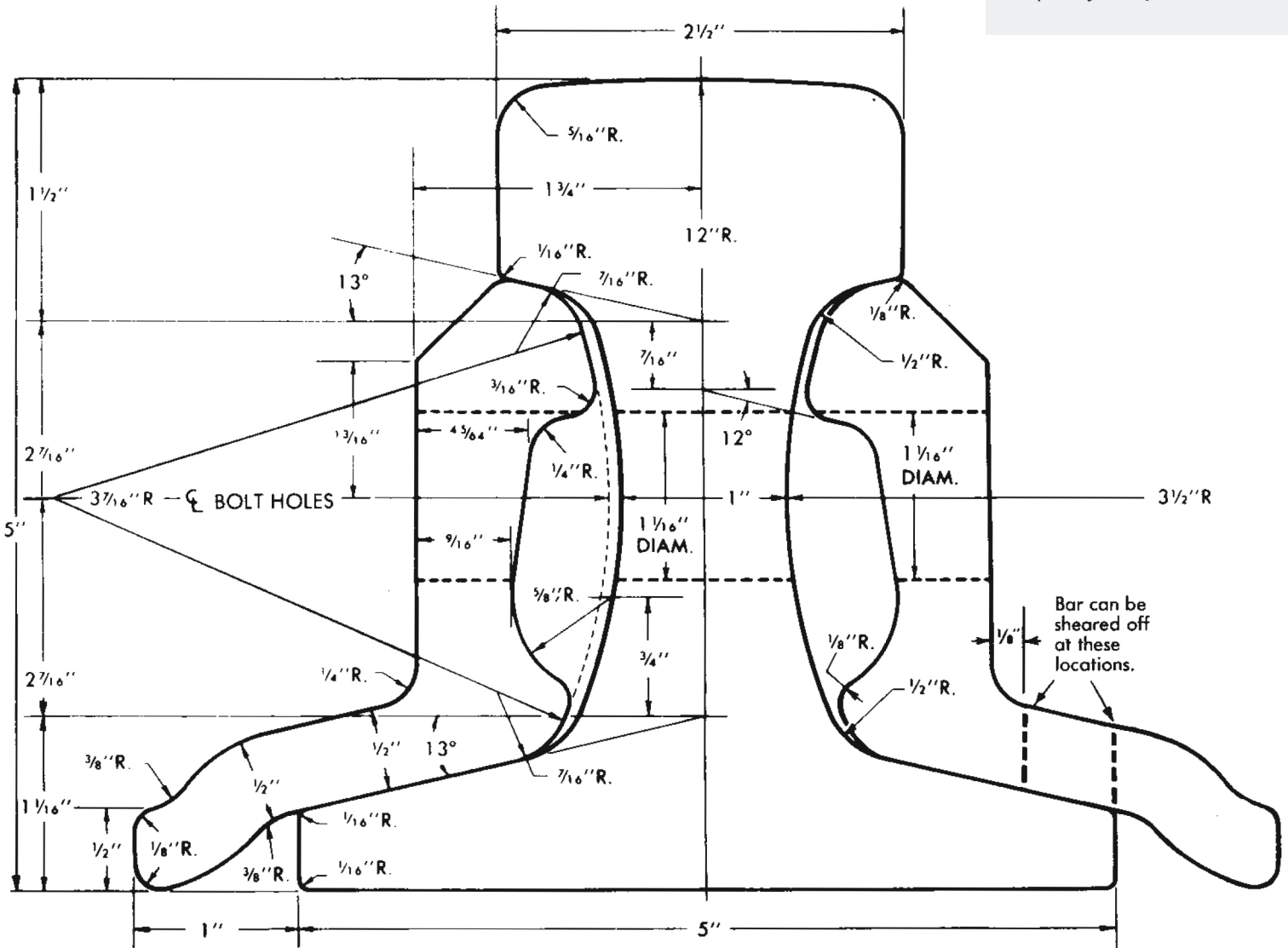
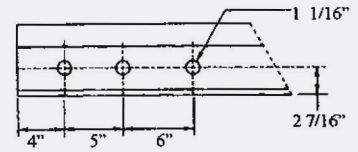
10.69^{m3}

Section Modulus I/V (Base)

13.51^{m3}

X-X to Base

2.209"



105 lb Crane Rail

Rail Section 105CR

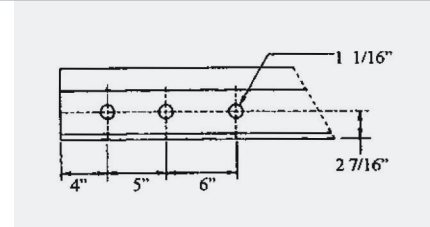
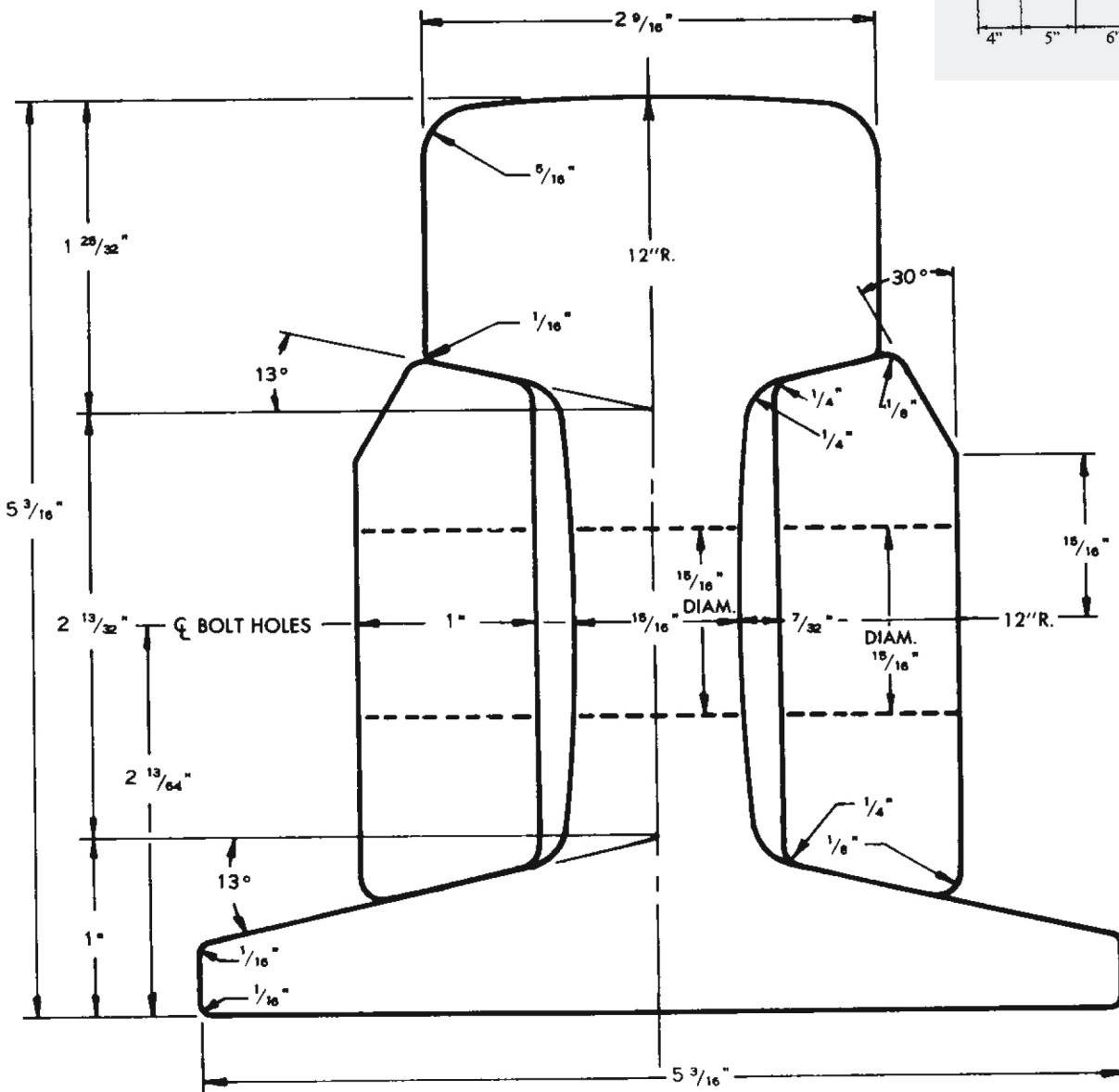
105 lbs per yard
 Stock Length 39'
 Standard Drilling 4" x 5" x 6"

Joint Bars

34" length
 51.6 lbs per pair

Area

10.30^{"2}
 Weight 105 lbs/yd
 Moment of Inertia 34.41^{"4}
 Section Modulus I/V (Head) 12.39^{"3}
 Section Modulus I/V (Base) 14.28^{"3}
 X-X to Base 2.410"



135 lb Crane Rail

Rail Section 135CR

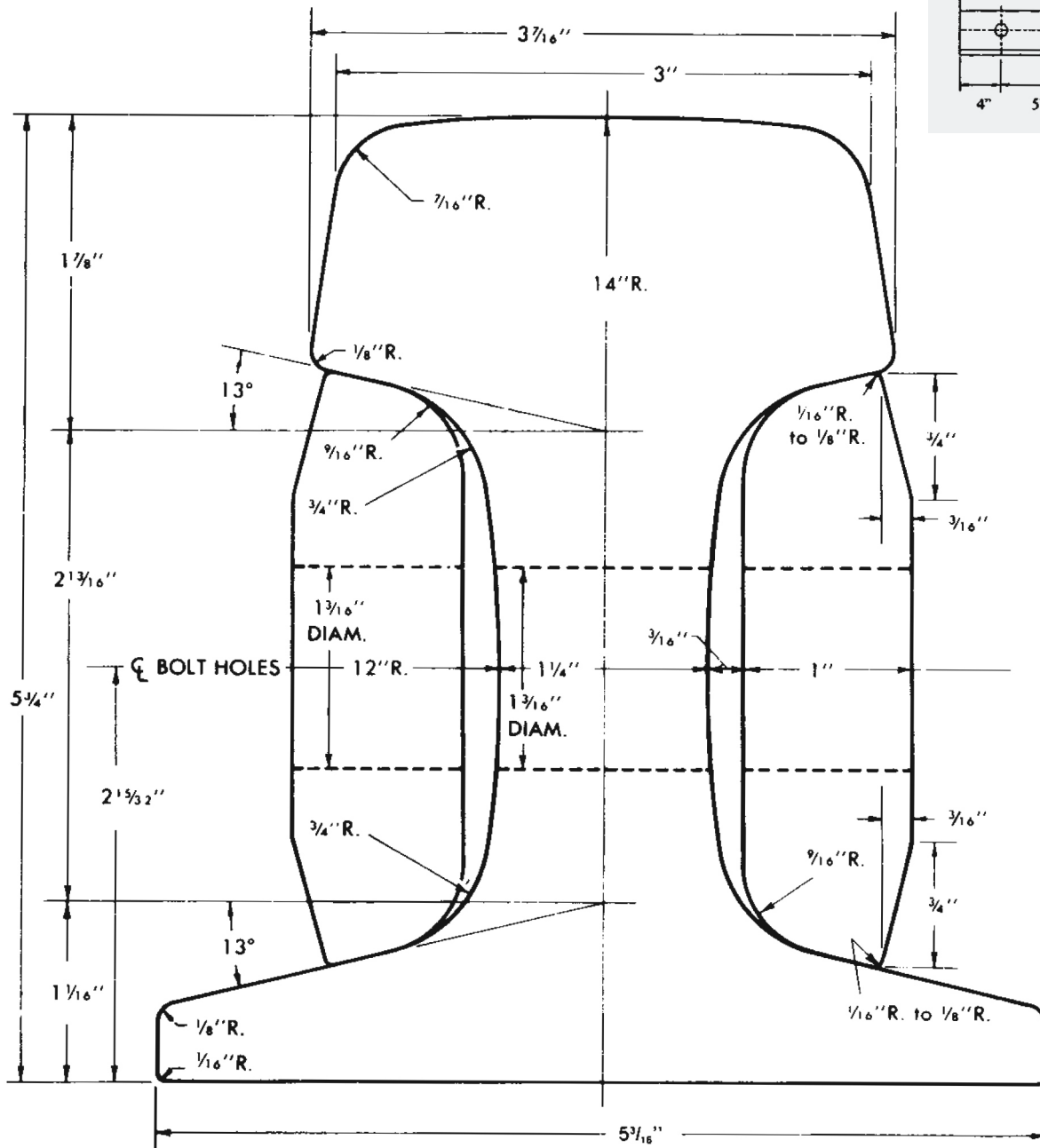
135 lbs per yard
 Stock Length 39'
 Standard Drilling 4" x 5" x 6"

Joint Bars

34" length
 57.8 lbs per pair

Area

13.32^{"2}
 Weight 135 lbs/yd
 Moment of Inertia 50.59^{"4}
 Section Modulus I/V (Head) 17.20^{"3}
 Section Modulus I/V (Base) 18.02^{"3}
 X-X to Base 2.807"



171 lb Crane Rail

Rail Section 171CR

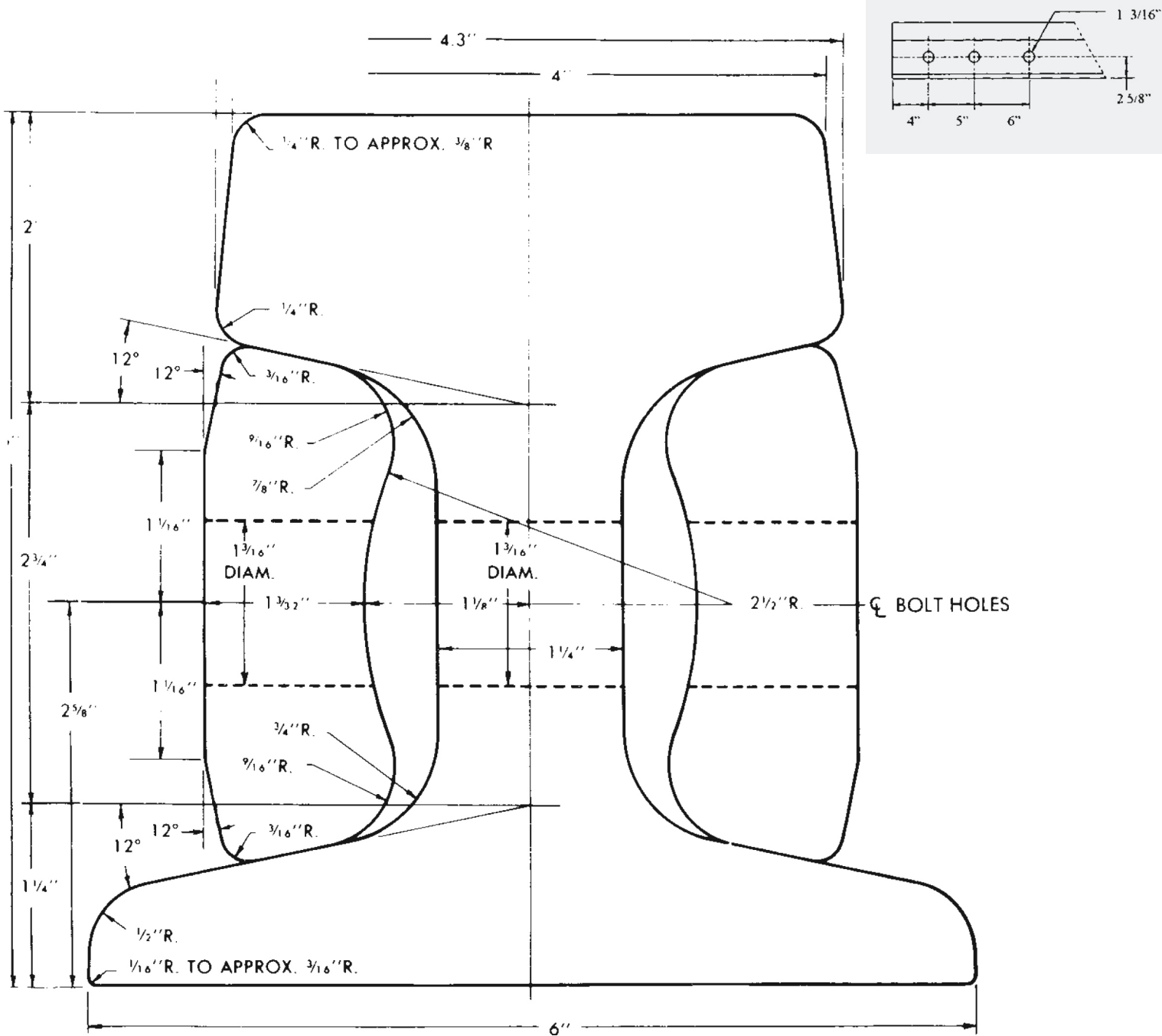
171 lbs per yard
 Stock Length 39'
 Standard Drilling 4" x 5" x 6"

Joint Bars

34" length
 72.1 lbs per pair

Area

16.81 ⁱⁿ²
 Weight 171 lbs/yd
 Moment of Inertia 73.40 ⁱⁿ⁴
 Section Modulus I/V (Head) 24.51 ⁱⁿ³
 Section Modulus I/V (Base) 24.42 ⁱⁿ³
 X-X to Base 3.006"



175 lb Crane Rail

Rail Section 175CR

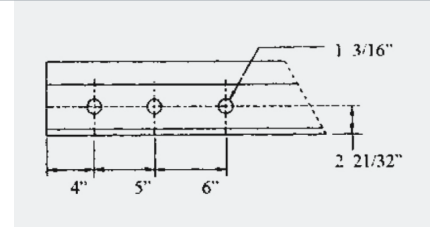
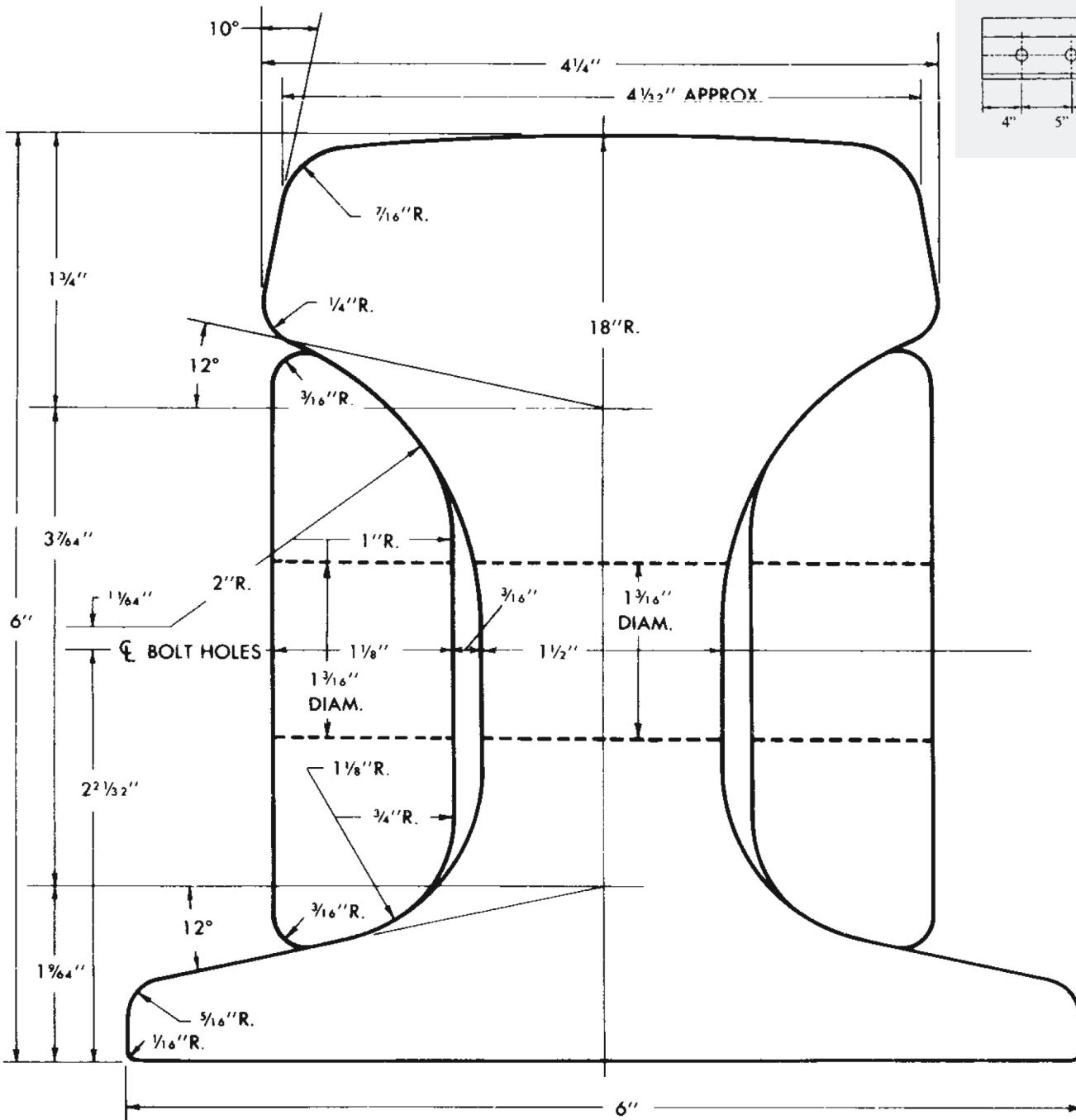
175 lbs per yard
 Stock Length 39'
 Standard Drilling 4" x 5" x 6"

Joint Bars

34" length
 69.4 lbs per pair

Area

17.12 ⁱⁿ2
 Weight 175 lbs/yd
 Moment of Inertia 70.22 ⁱⁿ4
 Section Modulus I/V (Head) 23.53 ⁱⁿ3
 Section Modulus I/V (Base) 23.28 ⁱⁿ3
 X-X to Base 3.016"



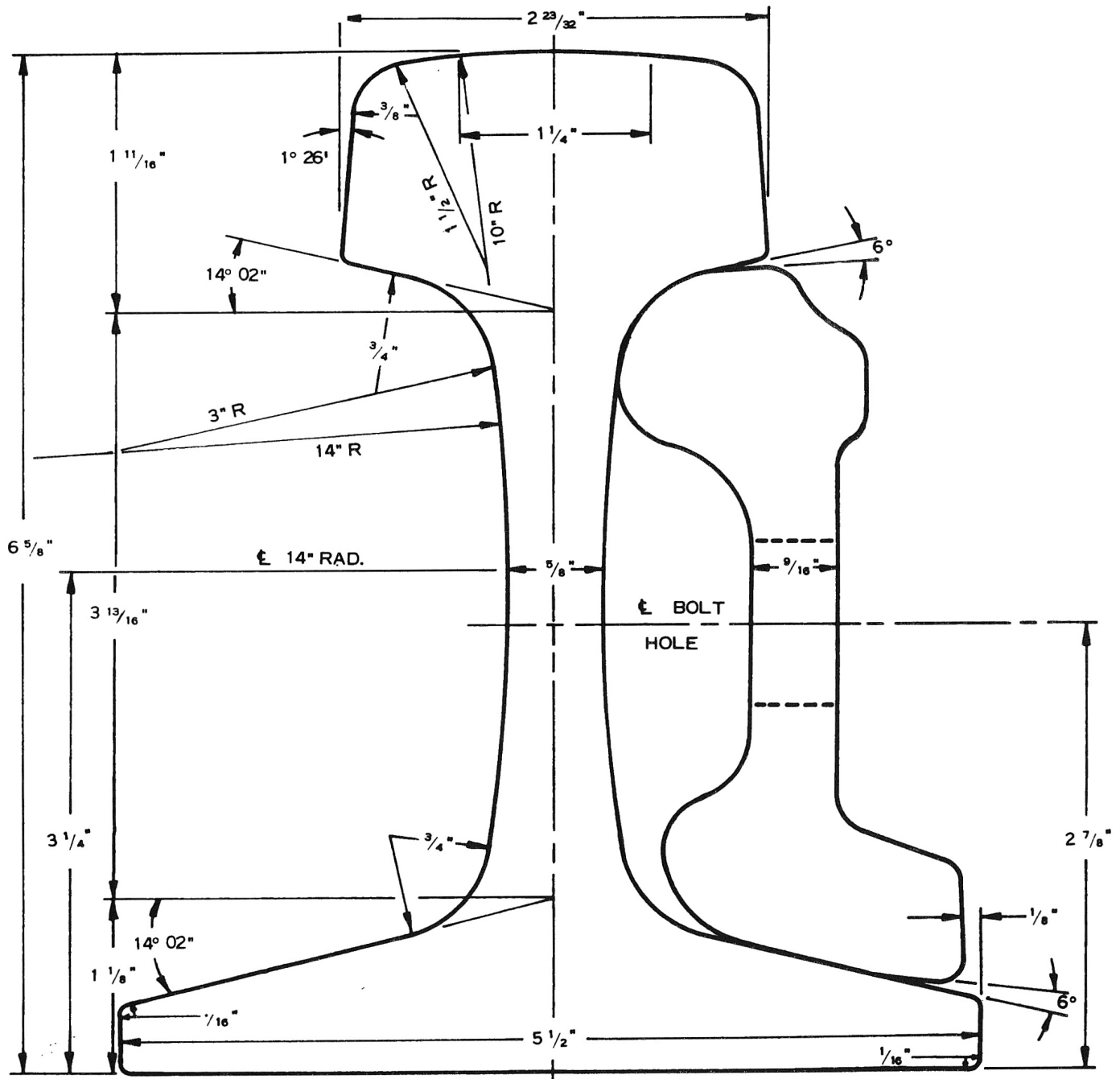
115 lb A.R.E.A Rail

Rail Section 11525

115 lbs per yard
Stock Lengths 33' and 78'

Joint Bars

24" length
70.3 lbs per pair
36" length
105.5 lbs per pair



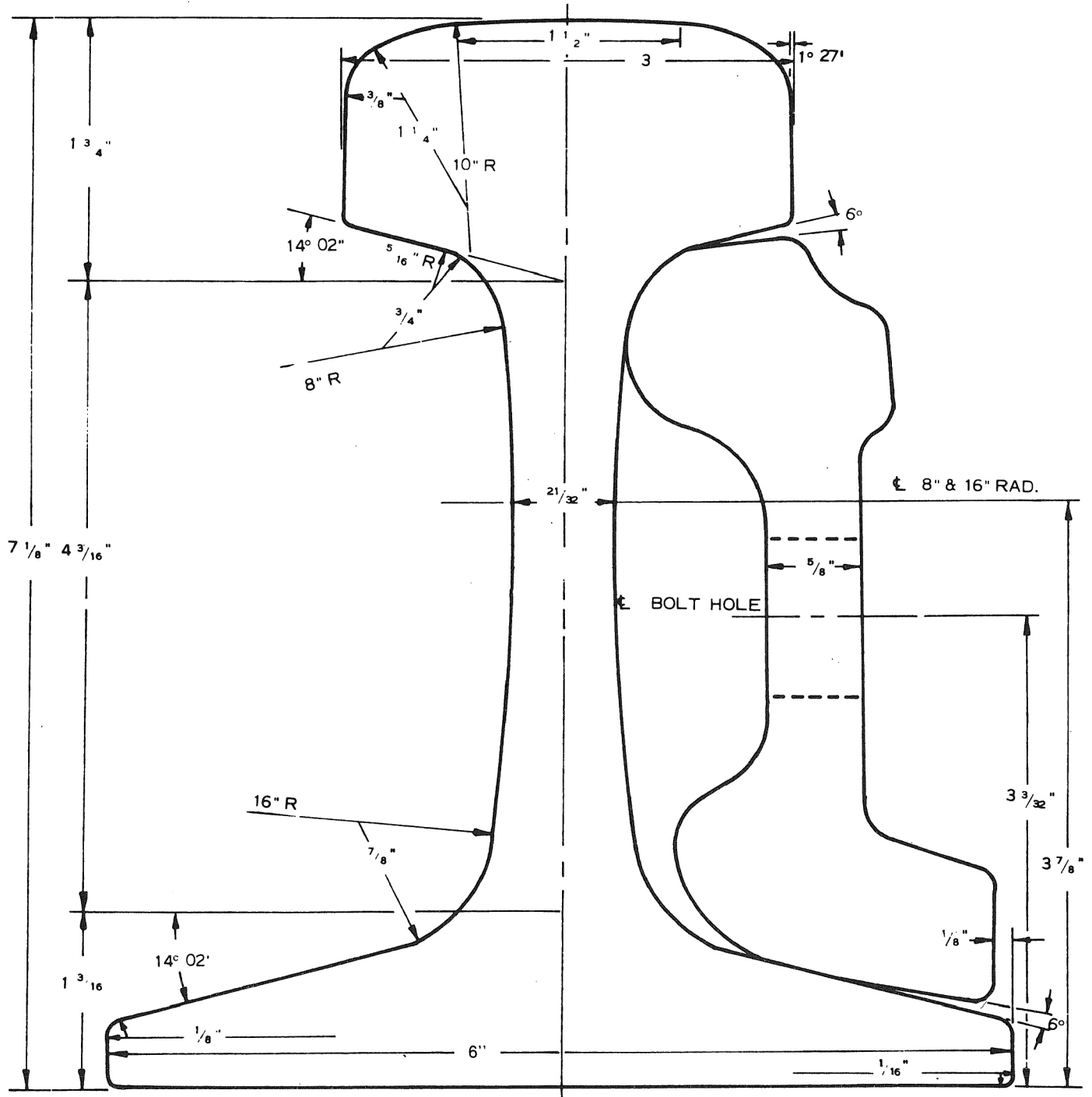
132 lb A.R.E.A Rail

Rail Section 13225

132 lbs per yard
Stock Lengths 33' and 78'

Joint Bars

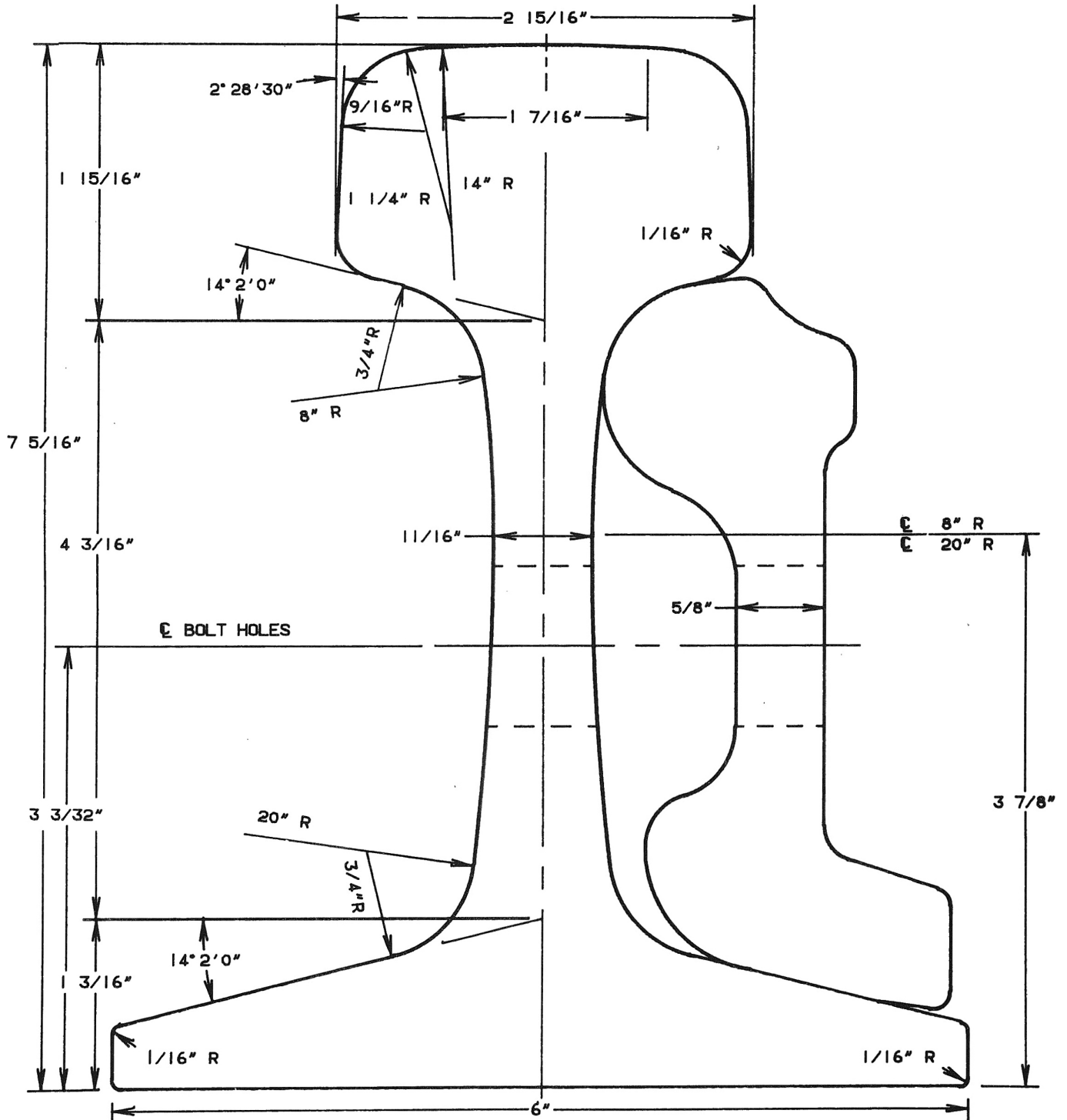
24" length
77 lbs per pair
36" length
115.5 lbs per pair



136 lb A.R.E.A Rail

Rail Section 13625
 136 lbs per yard
 Stock Lengths 33' and 78'

Joint Bars
 24" length
 77 lbs per pair
 36" length
 115.5 lbs per pair



Crane Rail Components

Wheel Stops

Hook Bolts

Crane Rail Clips

Crane Rail Clips Cont.

Clamps & Fillers

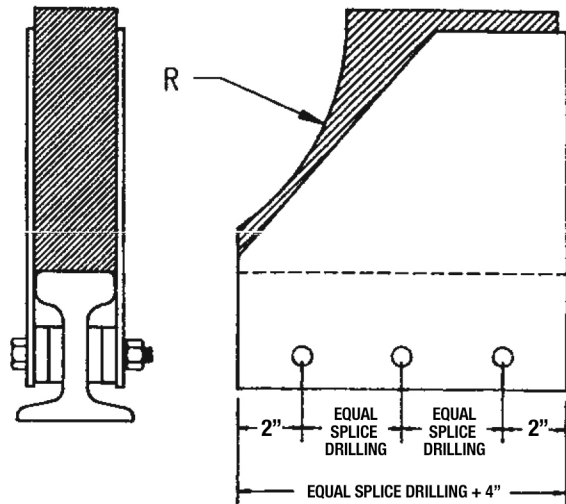
Wheel & Bumper Stops

Din Profiles

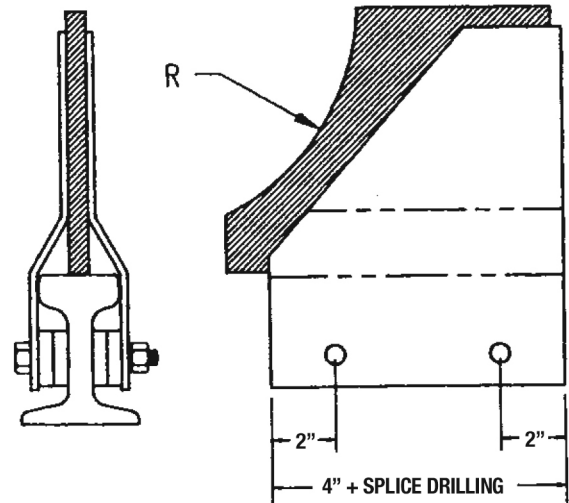


Wheel Stops

Heavy Duty Wheel Stops
For 60 lb through 175 lb Rail



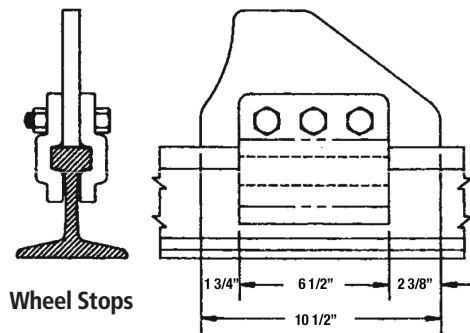
Fixed Duty Wheel Stops
For 20 lb through 60 lb Rail



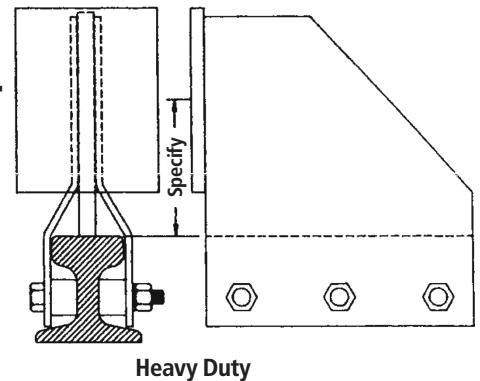
Wheel and Bumper Stops

Adjustable Wheel Stops

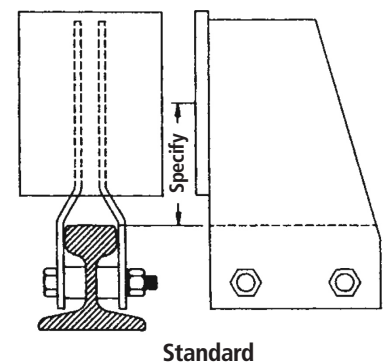
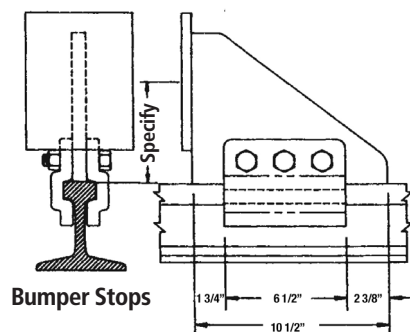
Adjusts lineally for length of runway.
No drilling required.



Fixed Bumper Stops

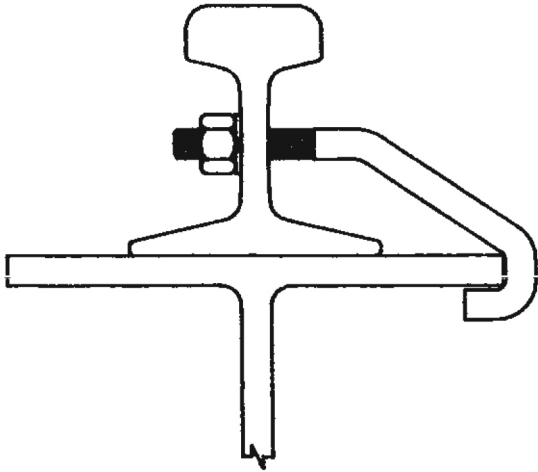


Adjustable Bumper Stops

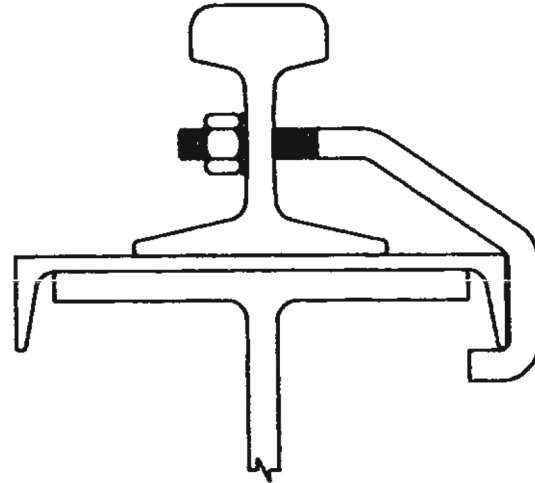


Hook Bolts

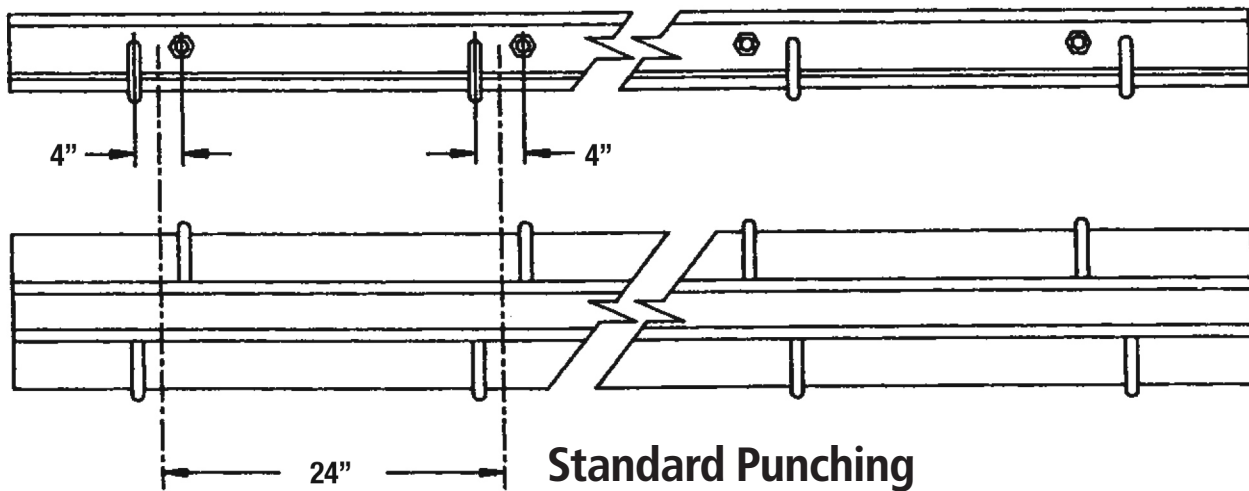
Wide Flange



Channel



Hook Bolt Spacing

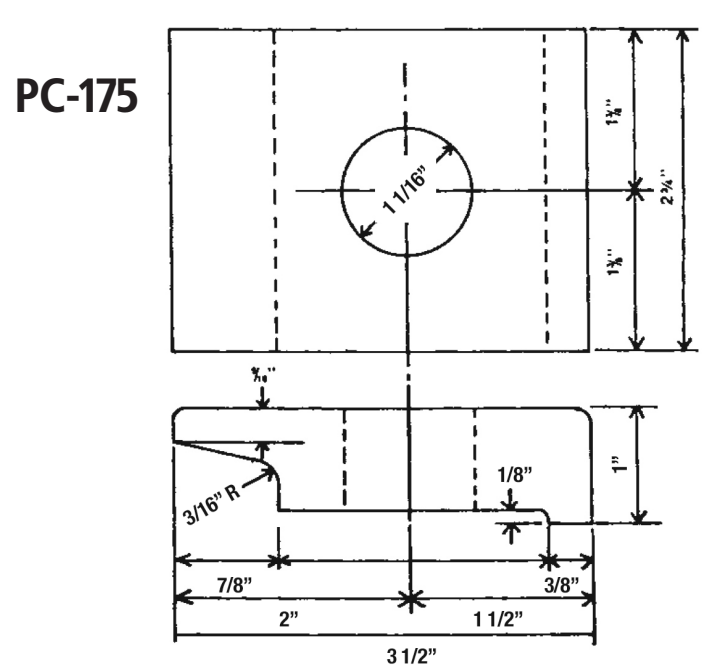
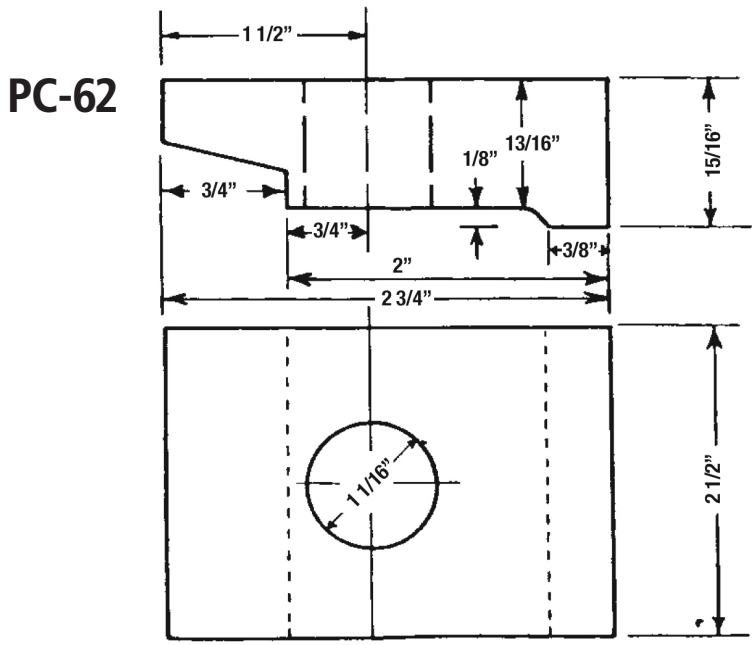
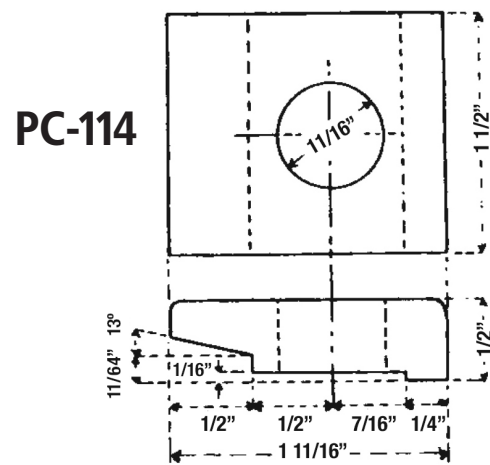
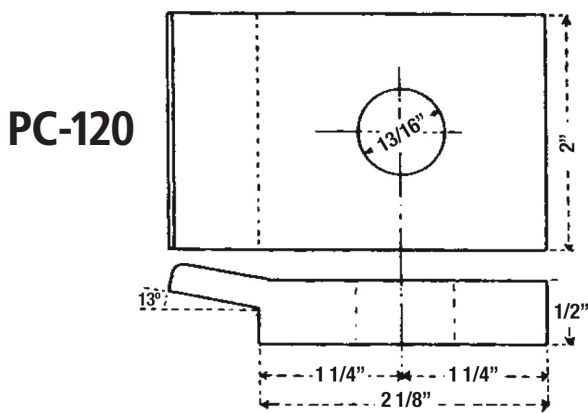


Crane Rail Clips

Used to bolt the crane rail to its supporting member by fitting over the base of the rail. The sizes listed are designed particularly for use with various crane rail sections.

Clip No.	Use with Rail Sections	Gauge C to C of Holes	Diameter of A-325 Hex Head Machine Bolts
#114	20 # ASCE - 40# ASCE	Rail Base + 1"	5/8"
#120	25# ASCE - 40# ASCE	Rail Base + 2 1/2"	3/4"
#103	40# ASCE - 100# AREA	Rail Base + 1 1/4"	3/4"
#106	60# ASCE - 100# AREA	Rail Base + 2"	3/4"
#62	80# ASCE - 175# CR	Rail Base + 1 1/2"	1"
#175	175# CR	8 1/4"	1"

Normal spacing for all clips is pairs every 2'

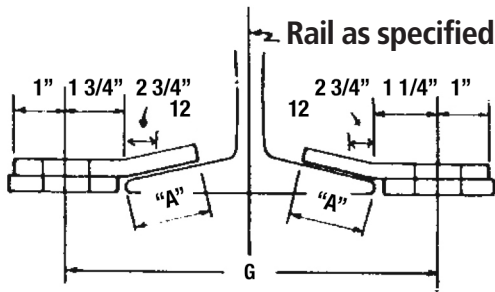


Clamps and Fillers

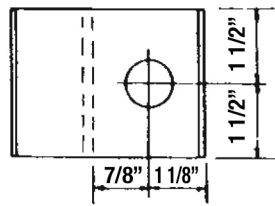
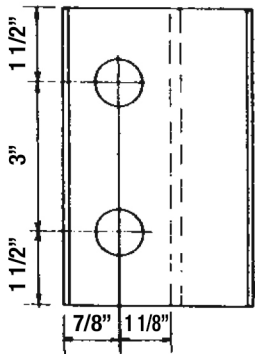
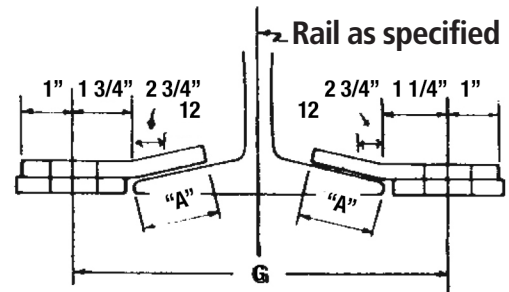
Hole Space for Clamps and Fillers

1. Standard gauge C to C of holes for all rail clamp & fillers is rail base plus 2-1/2"
2. Normal spacing for 1 hole clamp & fillers is pairs every 2 feet.
3. Normal spacing for 2 hole clamp & fillers is pairs every 3 feet.
4. Above also available in welded stud design.
5. Specify loose or tight fit.

Floating Rail Clamps with Eccentric Filler

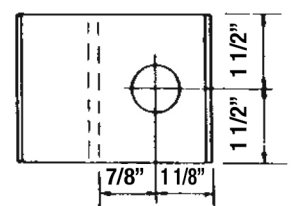
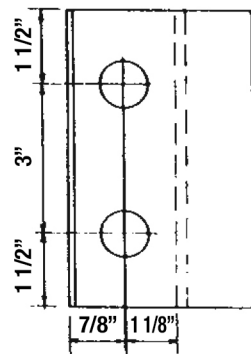


Tight Clamps with Eccentric Filler



2 Hole Clamp

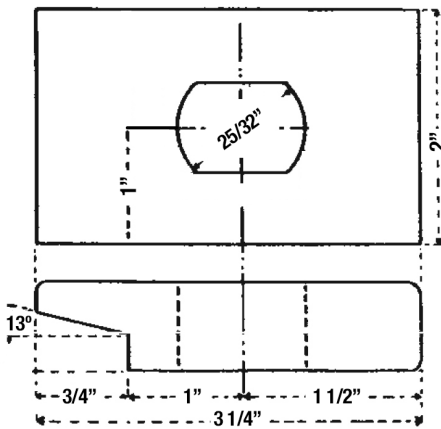
1 Hole Clamp



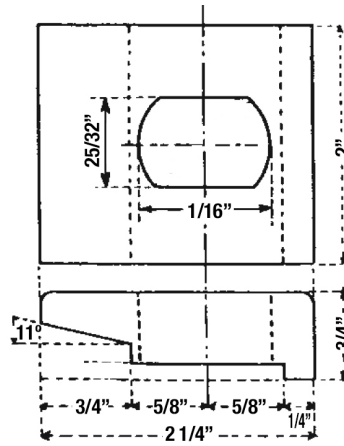
2 Hole Clamp

1 Hole Clamp

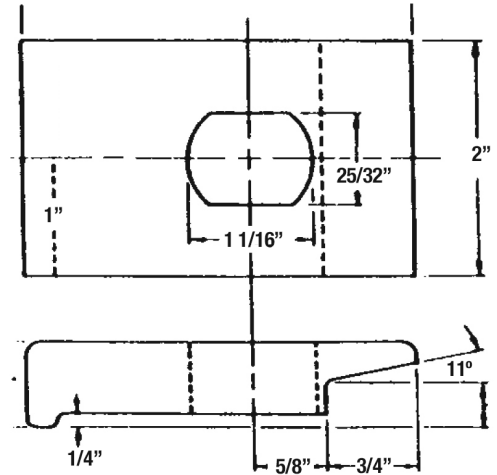
Bolts



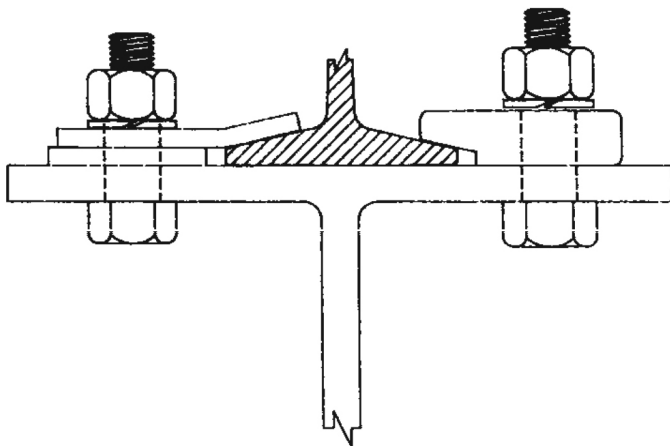
PC-106



PC-103



PC-128



Information required for ordering bolts

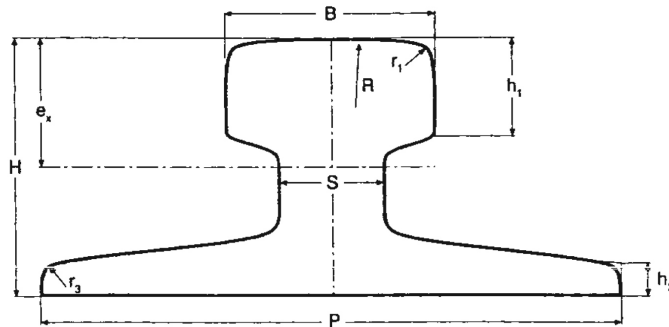
1. Bolt diameter
2. Grip through material
3. Lockwasher Yes No
4. Type of nut Standard washer Self locking nut
5. Grade of bolt 2 5 A325

Example of determining total grip (thickness through material)

Clip	= #106	2/4" (Clip thickness)
Wide Flange	= W24 x 94#	7/8" (Flange thickness)
Total Grip	=	1 5/8"

Din Profiles

Designation	Weight		B	S	P	H	R	h1	h2	r1	r3	eX
	kg/m	lbs/yd										
A 45	22.1	44.55	45	24	125	55	400	20.0	8	4	4	33.3
A 55	31.8	64.11	55	31	150	65	400	25.0	9	5	5	39.0
A 65	43.1	86.89	65	38	175	75	400	30.0	10	6	5	44.7
A 75	56.2	113.29	75	45	200	85	500	35.0	11	8	6	50.4
A 100	74.3	149.78	100	60	200	95	500	40.0	12	10	6	52.9
A 120	100.0	201.59	120	72	220	105	600	47.5	14	10	6	57.9
A 150	150.3	302.99	150	80	220	150	800	50.0	14	10	6	77.3



Designation	Weight		B	S	P	H	h1	h2	h3	h4	r2	r3	eX
	kg/m	lbs/yd											
MRS 73	73.63	148.43	70	32	146	157	33.30	17	48.40	32	10	5	89
MRS 86	85.50	172.40	102	80.30	165	102	45.10	16	-	-	10	10	54.50
MRS 87A	86.80	175	101.6	34.93	152.4	152.4	40.24	15.9	50.80	31.75	6.35-9.52	12.70	76.83
MRS 125	125	252	120	40	180	180	52	21	64.75	40	6	10	91.40
MRS 221	221.40	446.32	220.0	145	220.0	160.0	40	17.5	67.50	45	8	10	77.20

