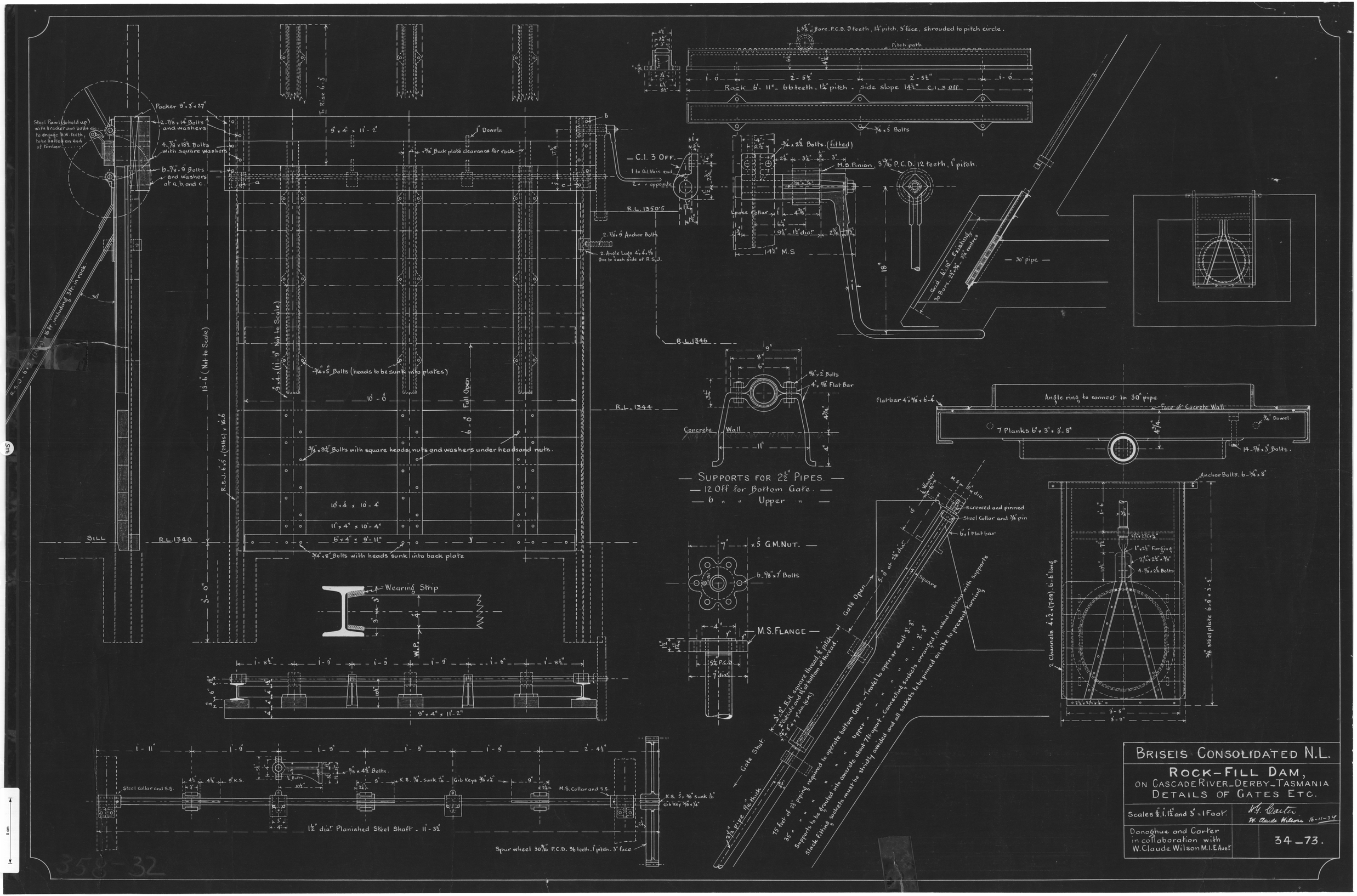
Packer 9" x 3" x 27"
Steel Pawl (to hold up) with bracket and bolts etc to engage B.W. teeth, tube Bolted on end of timber.
2-7/8" x 14" Bolts and washers
4-7/8" x 18½" Bolts with square washers
6-7/8" x 9" Bolts and washers at a, b, and c.
Rise 6'-3"
9" x 4" x 11'-2"
1" Dowels
3/8" Back plate clearance for rock
C.I. 3 Off.
1 to Oil this end
2 " " opposite
R.L. 1350·5
2-7/8" x 9" Anchor Bolts
2. Angle Lugs 4" x 4" x 5/8" One to each side of R.S.J.
R.S.J. 6" x 5" (26 lbs) x 16 ft. including 3 ft. in rock
30°
13'-6" (Not to Scale)
9" x 4" x (11'-9" Not to Scale)
3/4" x 5" Bolts (heads to be sunk into plates)
10'-0"
Full Open
6'-0"
R.L. 1344
3/4" x 9½" Bolts with square heads, nuts and washers under heads and nuts.
R.S.J. 6" x 5" x (25 lbs) x 16'-6"
10" x 4" x 10'-4"
11" x 4" x 10'-4"
6" x 4" x 9'-11"
3/4" x 8" Bolts with heads sunk into back plate
SILL
R.L. 1340
3'-0"
Wearing Strip
W.P.
1'-8½" 1'-9" 1'-9" 1'-9" 1'-9" 1'-8½"
9" x 4" x 11'-2"
Bore P.C.D. 9 teeth, 1¼" pitch, 3" face, shrouded to pitch circle.
Pitch path
1'-0" 2'-5½" 2'-5½" 1'-0"
Rack 6'-11" - 66 teeth - 1¼" pitch - side slope 14½° C.I. 3 off.
3/4" x 5" Bolts
3/4" x 22" Bolts (fitted)
M.S. Pinion 3 9/16" P.C.D. 12 teeth, 1" pitch.
Spoke Collar
1·42" M.S.
18"
Grid 1'-10" Existing 30 Bars - 2½" x ¾" 3/4" centres
30" pipe
R.L. 1346
9" 8" 6"
9/8" x 2" Bolts
4" x 5/8" Flat Bar
Concrete Wall
11"
Supports for 2½" Pipes.
12 Off for Bottom Gate.
6 " " Upper " "
Flat bar 4" x 7/8" x 6'-4"
Angle ring to connect to 30" pipe
Face of Concrete Wall
7 Planks 6" x 3" x 8'-8"
3/4" Dowel
14-9/8" x 3" Bolts.
Anchor Bolts. 6-3/4" x 8"
1'-6"
2¼" x 2¼" x ¼"
1" x 2½" Forging
2¼" x 2½" x 3/8"
4-5/8" x 2½" Bolts
2 Channels 4" x 2" x (7·09). 6'-6" long
3/8" steel plate 6'-9" x 3'-5"
3'-5"
3'-9"
7" x 5" G.M. Nut.
6-5/8" x 7" Bolts
M.S. Flange
4"
5¼" P.C.D.
7" dia.
Gate Open
5'-0" or 24" dia.
Square
Screwed and pinned
Steel Collar and 3/4" pin
6" x 1" Flat bar
Gate Shaft
3½" x 3½" Bolt square thread ¾" pitch. Outside and top bottom of thread.
2¼" x 2¼" x ¼" (x 4)
2¼" pipe 3/16" thick
75 feet of 2½" piping required to operate bottom Gate - Travel to open or shut 3'-3"
35 " " " " " Upper " " " " " 3'-3"
Supports to be grouted into concrete about 7 ft. apart - Connecting sockets arranged to avoid collision with supports
Stock fitting sockets must be strictly avoided and all sockets to be pinned on site to prevent turning
1'-11" 1'-9" 1'-9" 1'-9" 1'-9" 2'-4½"
Steel Collar and S.S.
4½" 4½" 9" K.S.
5/8" x 4½" Bolts.
9" K.S. 3/8" - Sunk 1/16" - Gib Keys 3/8" x ¼"
M.S. Collar and S.S.
K.S. 5" x 3/8" Sunk 1/16" Gib Key 3/8" x 3/4"
1½" dia. Planished Steel Shaft - 11'-3½"
Spur wheel 30 7/16" P.C.D. 96 teeth. 1" pitch. 3" face
Briseis Consolidated N.L.
Rock-Fill Dam,
on Cascade River - Derby - Tasmania
Details of Gates Etc.
Scales ½", 1", 1½" and 3" = 1 Foot.
W. J. Carter
W. Claude Wilson 16-11-34
Donoghue and Carter in collaboration with W. Claude Wilson M.I.E.Aust.
34-73.