Section B-B
Scale 1/4"=1 foot

Victaulic Coupling 16" Grip
Victaulic Coupling 14" Grip
3" Universal Cl Air Line
Victaulic Coupling 14" Grip
Planimes & angles cut & field welded Pipe recoated in field
Water Stop
Min 12" Conc
Concrete
Dresser Coupling
Pipe Invert -20.5
Tunnel invert -22.75
24" Pipe Slope up
Tunnel Slope down
Pipe Saddles
Concrete Fill under tunnel for full length
Approx Surface of Boulder Clay
24" Steel Pipe
open
Pipe Invert -21.0
Tunnel invert -22.5
188'
16'-0"
22'-0"
20'-0"
22'-0"
20'0"
22'0"
20'0"
22'0"
22'0"

Tunnel Section Scale 1/4" = 1 foot
Section of 24" pipe 14'0" long

Section A-A

Section C-C
Scale 1/4" = 1 foot

Section G-G
Scale 1/4" = 1 foot

Section F-F
Scale 1/4" = 1 foot

Section E-E

View D-D

Detail Air Vent to Tunnel (Air Vent D)
Scale 1/2" = 1 foot

Detail of Ladders - Galv.
Scale 1" = 1 foot

Sleeper - Arrangement
Scale 3/4" = 1 foot

Section H-H

Holes in Floor - Scale 1" = 1"
2 required (1 on top, 1 on Sec F-F

Bolt Location for base of 24" L.P. Ell
Scale 3/4" = 1 foot

Railing A - 2 places.

Railing B.
2 places

Detail of Pedestals
Scale 1 1/2" = 1 foot

Section of Tunnel
Scale 1/2" = 1 foot

Plug - End of Tunnel
Scale 1/2" = 1 foot

Water Stop at every construction joint
Scale 1/2" = 1 foot

PROVINCE OF MANITOBA
J. C. D. TAYLOR
REGISTERED ENGINEER

Water Main Crossing of Red River
Redwood Avenue
West Shaft & Tunnel

CITY OF WINNIPEG
ENGINEERING DEPARTMENT
W. D. HURST, CITY ENGINEER
A. J. S. TAUNTON, DEPUTY CITY ENGINEER

DRAWN BY ... DATE Aug. 3, 1954
TRACED BY ...
CHECKED BY ...
APPROVED ...
SCALE As Shown
DRAWING NO. 12531