



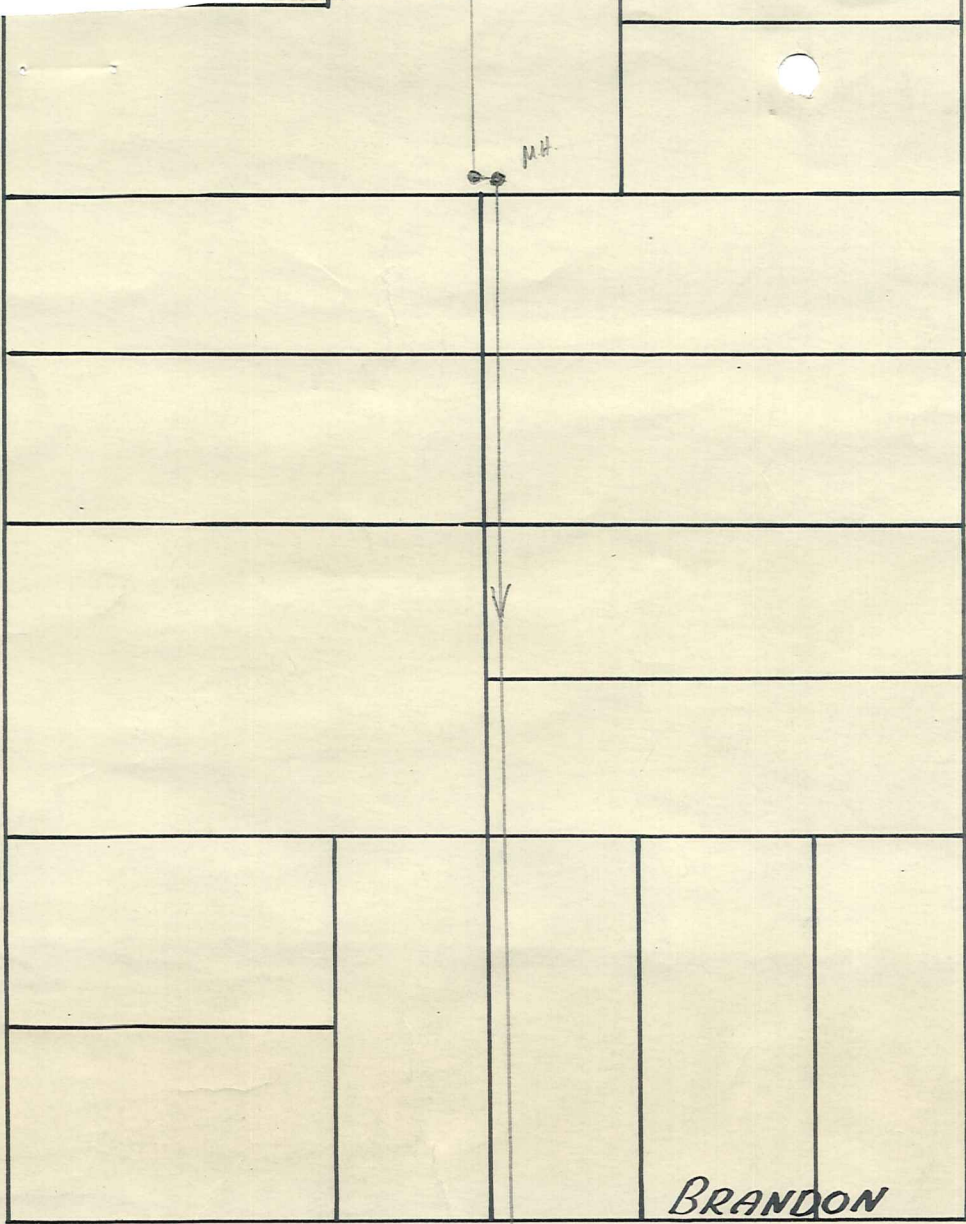
BOROUGH OF ALEXANDRA
 PLAN OF SUB-DIVISIONS & SEWERAGE
 SCALE 1 INCH = 4 CHAINS

N.B. Correction to levels shown to bring
 in terms of M.S.L. - Denedin Datum Add 0.92m
 August JHRP 20/3/79

— LEGEND —
 ○ Building (either house or business)
 which requires sewerage connection.
 Some have septic tanks at present.
 ● 119.10. Manhole & Invert Level.
 N.B. Levels are on Hydra Datum
 109.16' 0" on staff gauge at
 Alexandra Bridge.
 Level VII, p. 91, 1917

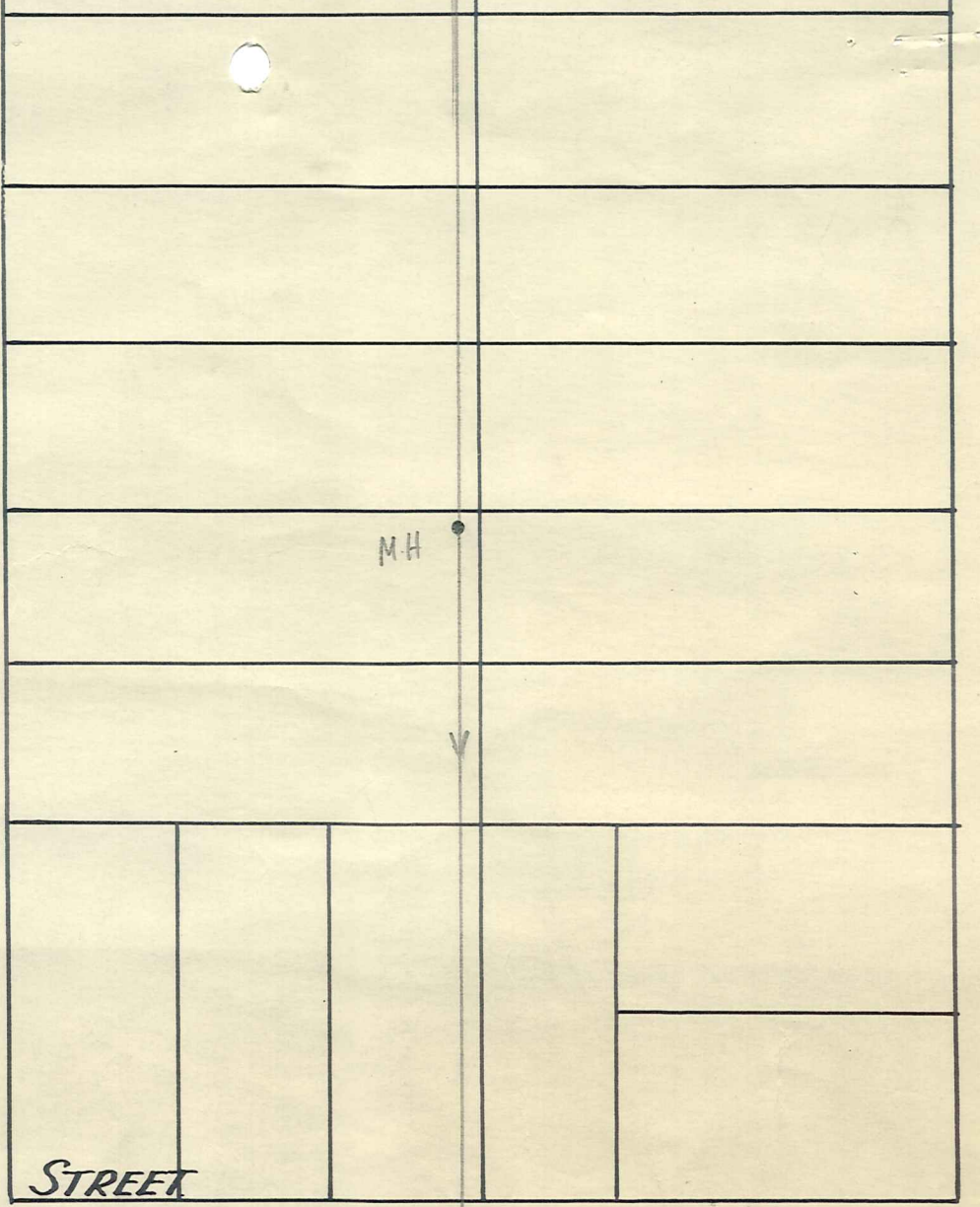
A539

CENTENNIAL



BRANDON

KENMARE

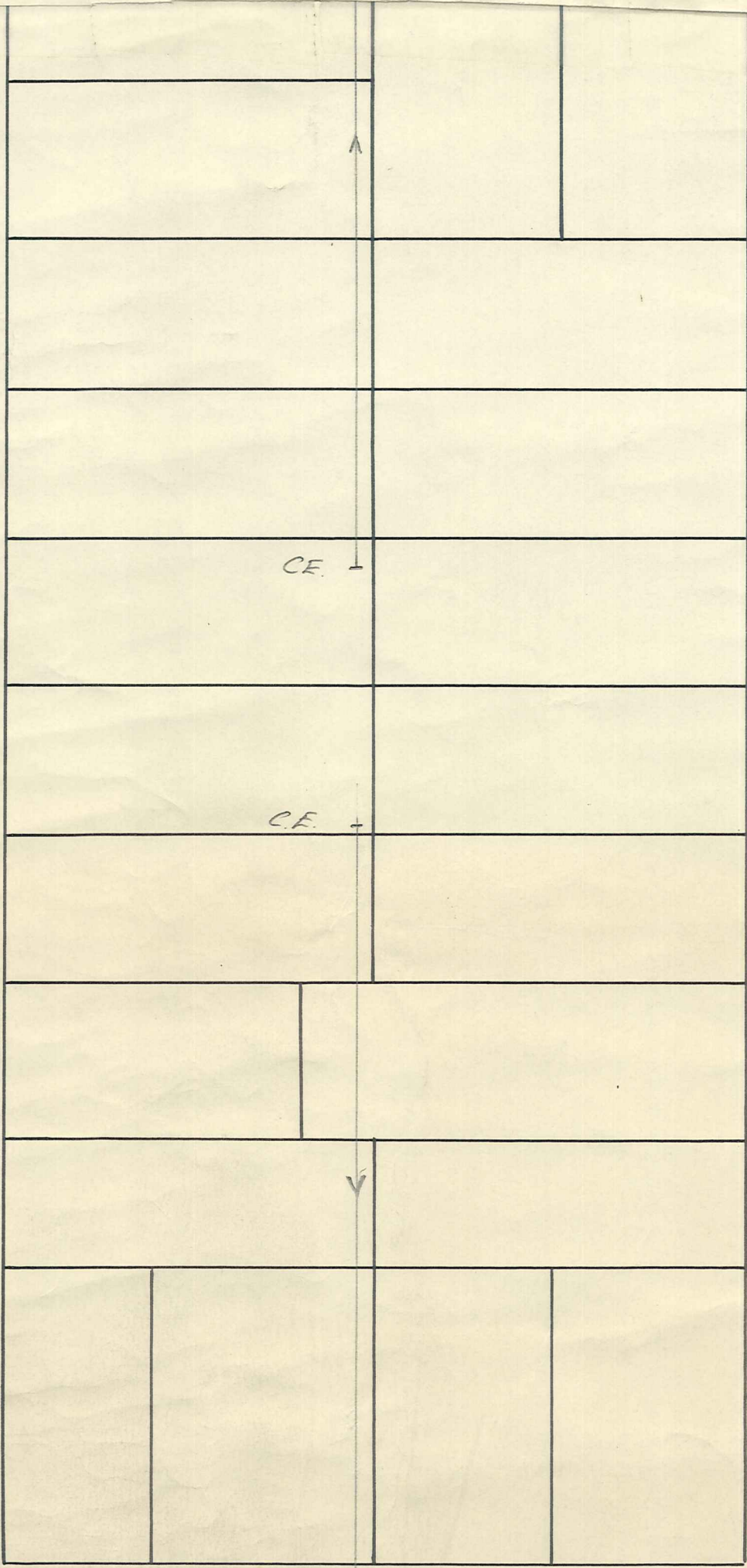


STREET

BANTRY

D 4

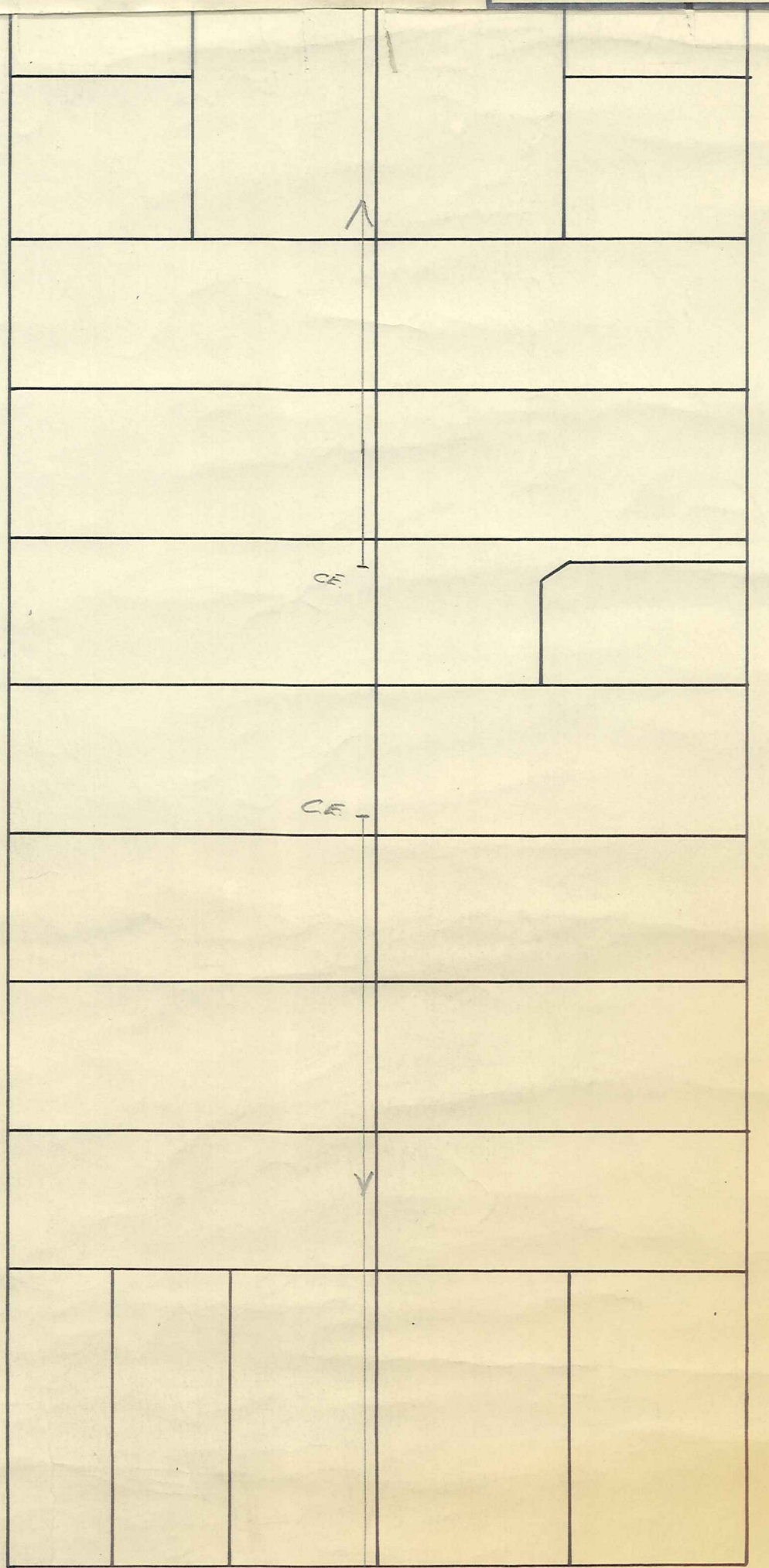
CENTENNIAL AVENUE



SHANNON

STREET

KENMARE



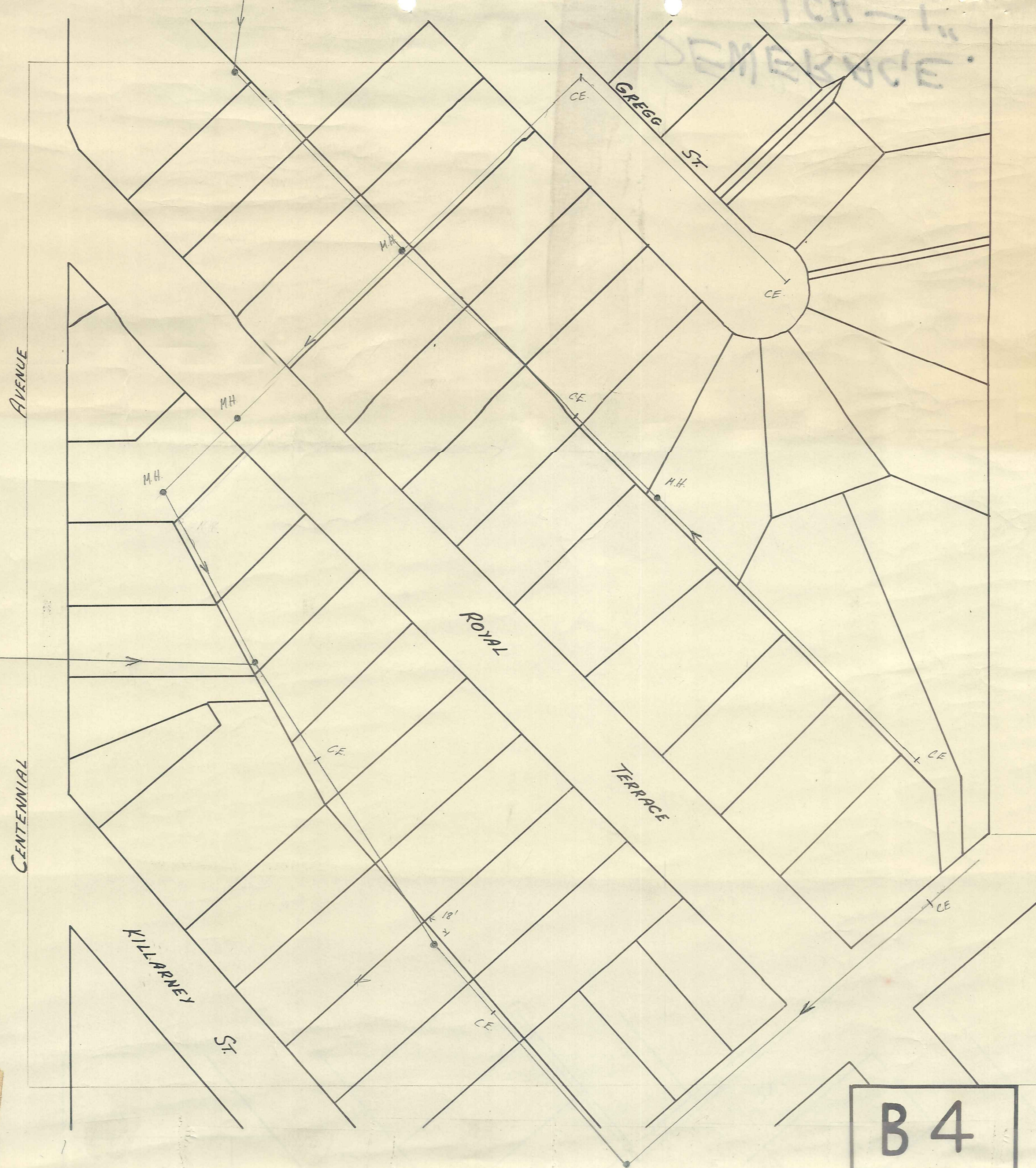
STREET

STREET

BANTRY

E 4

100-7-1
SEWERAGE

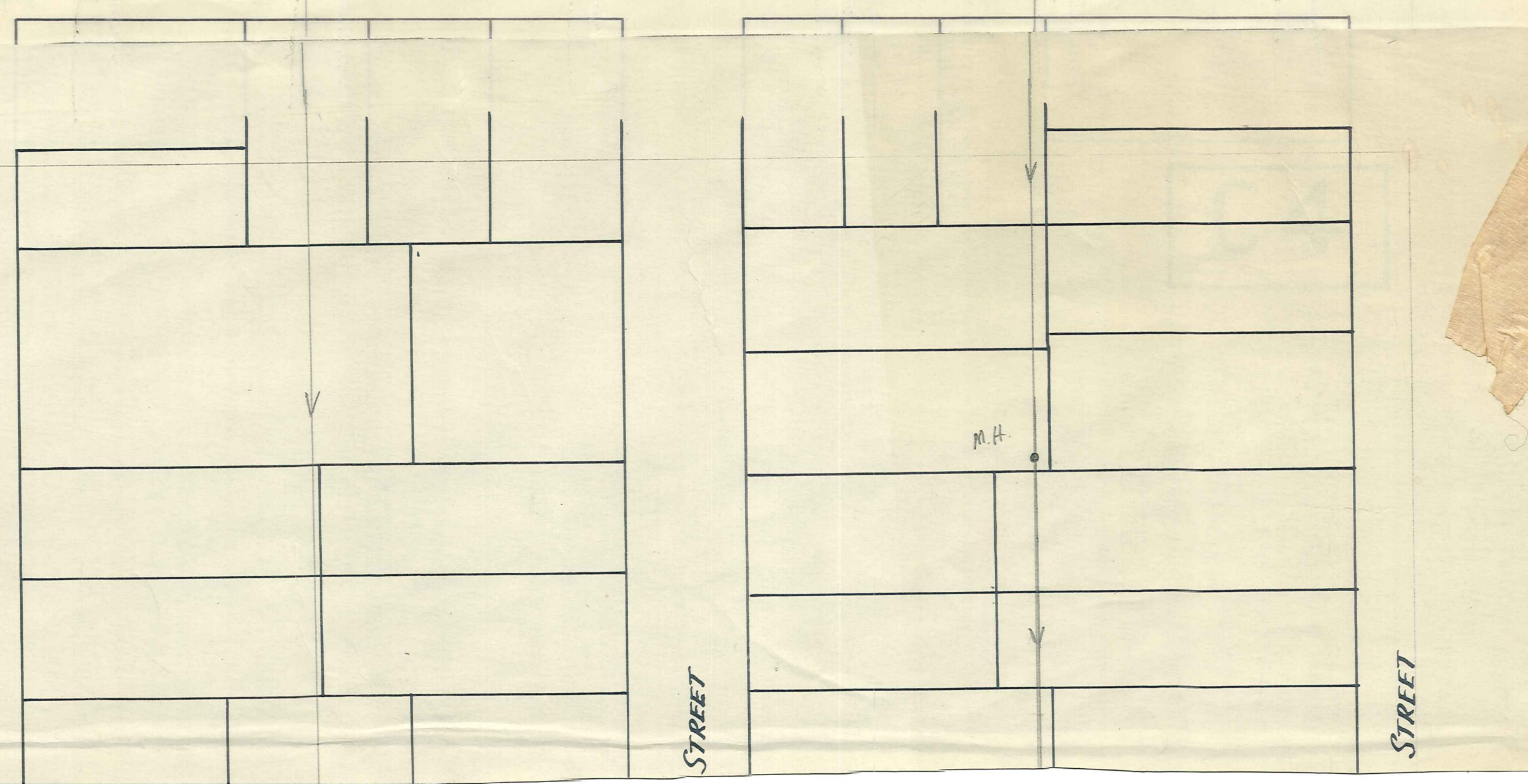
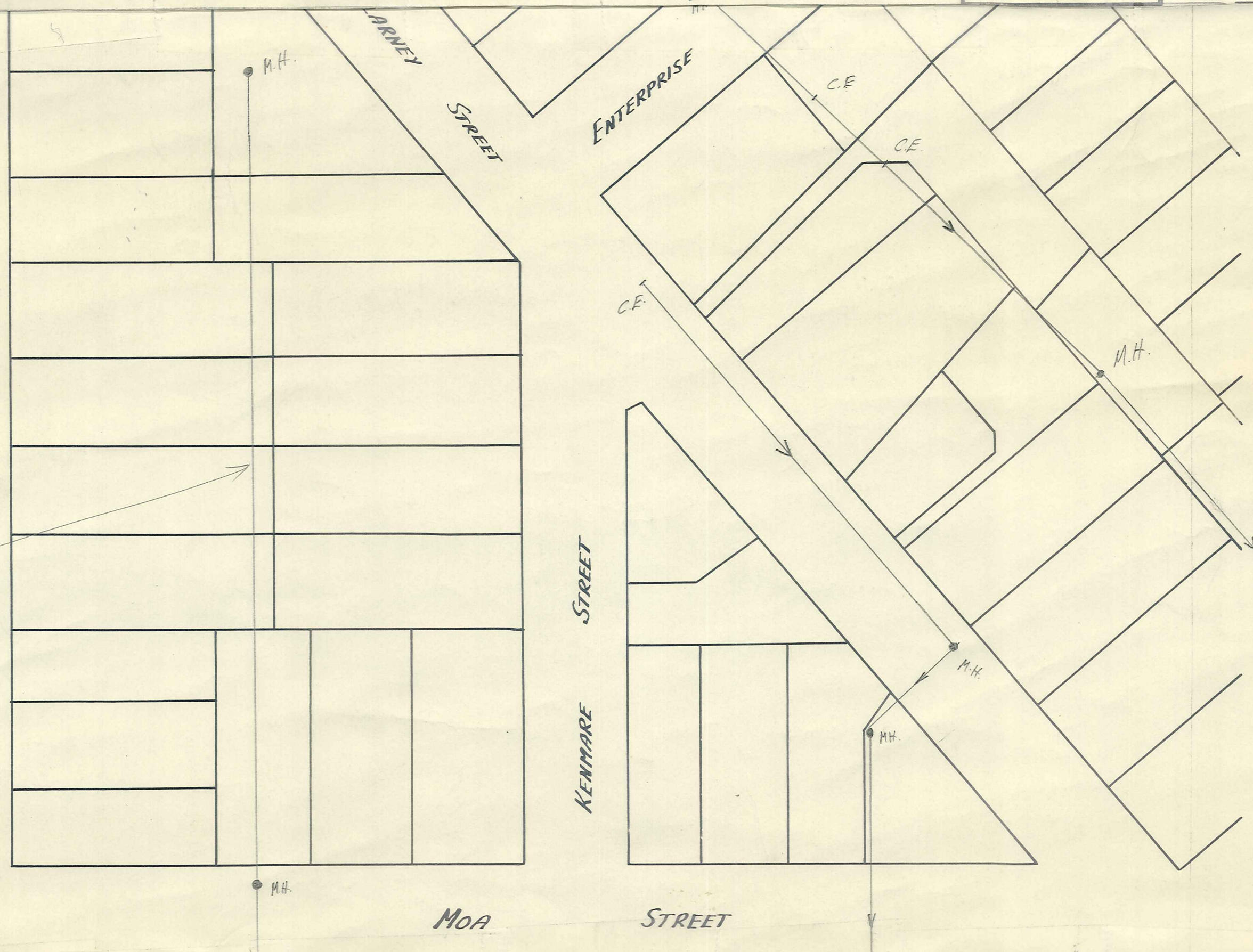


Check on site Before Tracing

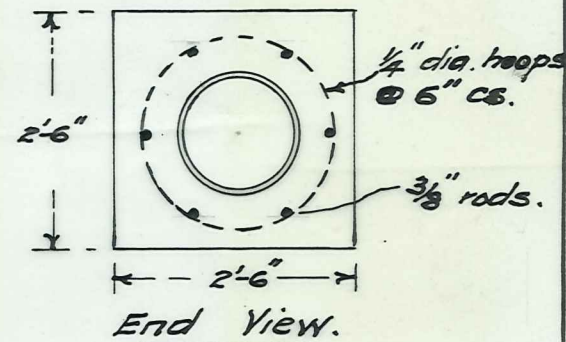
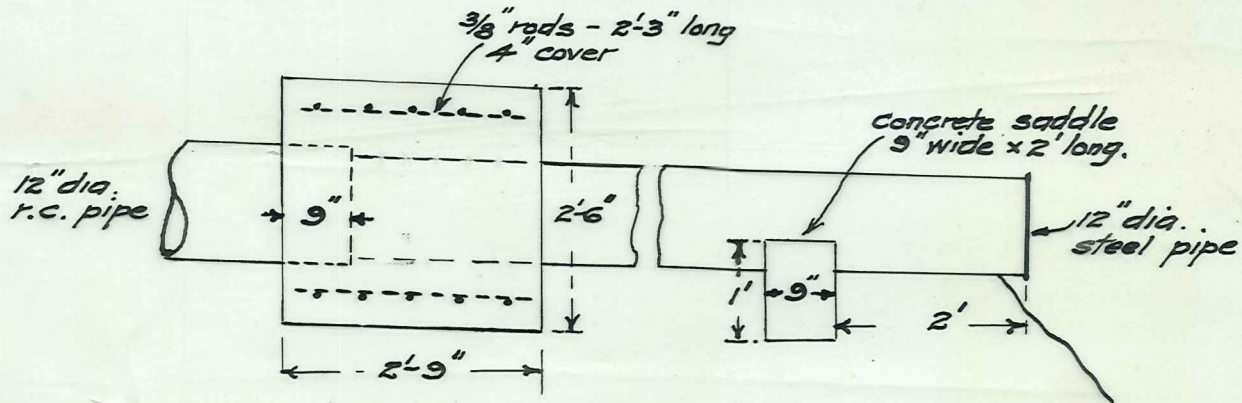
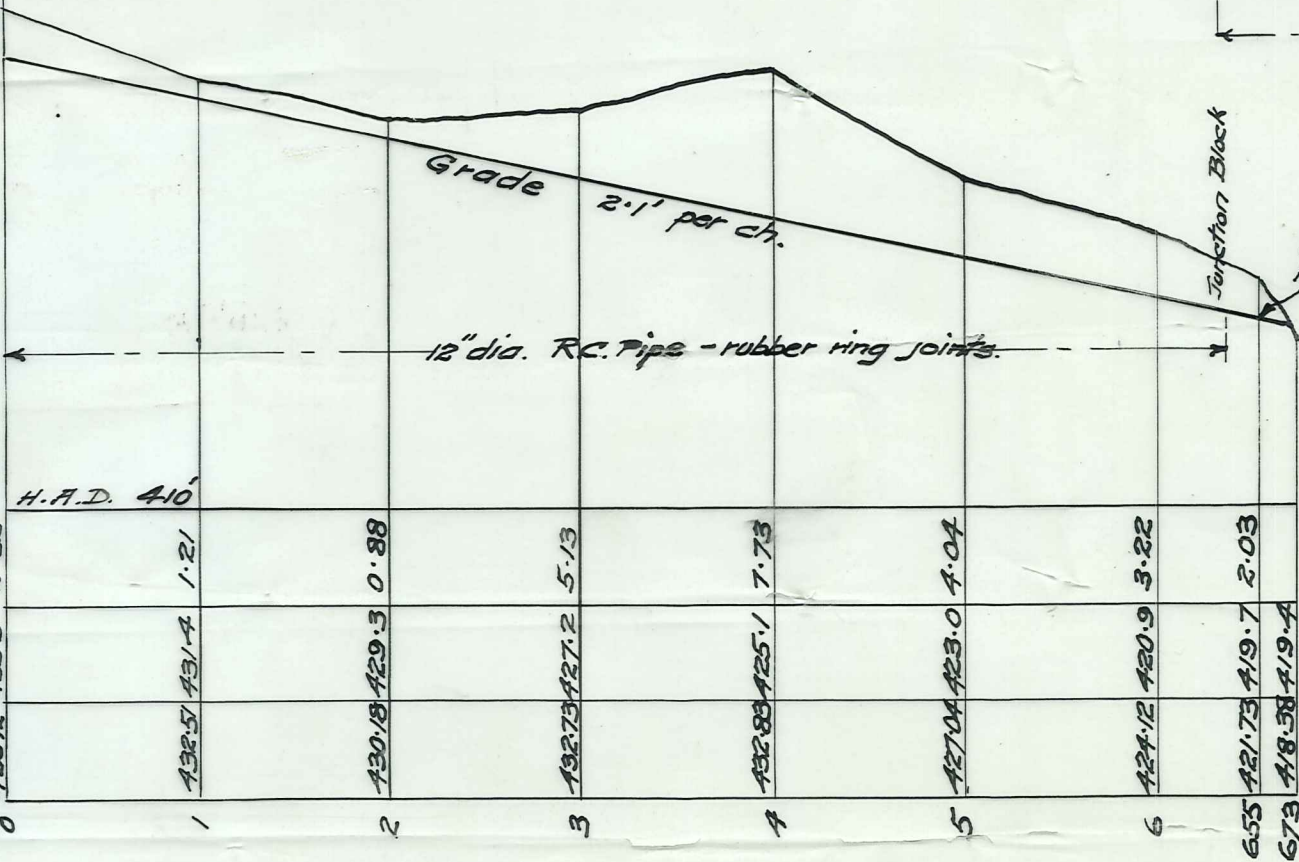
B 4

CHECK ON SITE BEFORE TRACING

holes in this length



R.L. 442'
Existing concrete manhole

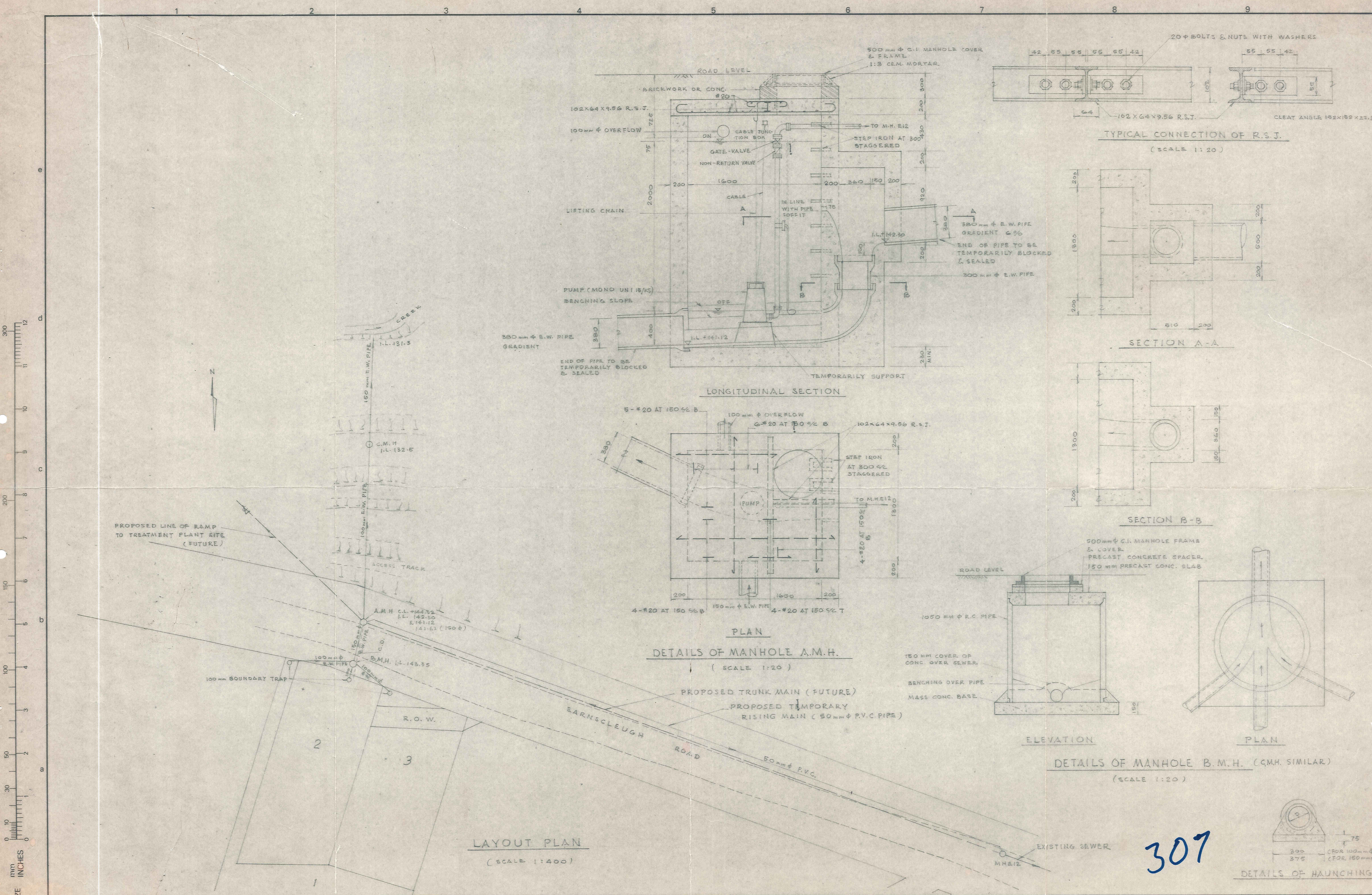


Details of Junction Block & Saddle.
Scale 2' to 1"

PROPOSED NEW SEWER OUTLET INTO
MANUHERIKIA RIVER.
Longitudinal Section.

Scales Vert 10' to 1"
Horiz 1 ch. to 1"

Note: Levels are based on Clutha R. Hydroelectric survey datum.



ORIGINAL SIZE
 300
 200
 150
 100
 50
 30
 10
 0
 0 10 20 30 40 50 60 70 80 90 100 110 120
 mm
 INCHES

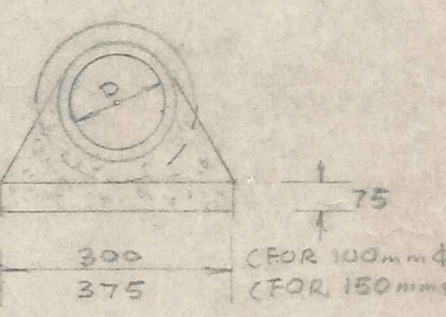
DUFFILL WATTS & KING LTD
 CONSULTING CIVIL & STRUCTURAL ENGINEERS
 Dunedin P.O. Box 5289 Ph. 77-123 Invercargill P.O. Box 576 Ph. 83049
 Balclutha P.O. Box 220 Phone 1425
 Cromwell P.O. Box 82 Phone 96

M^CGEORGE & ELDER
 SURVEYORS

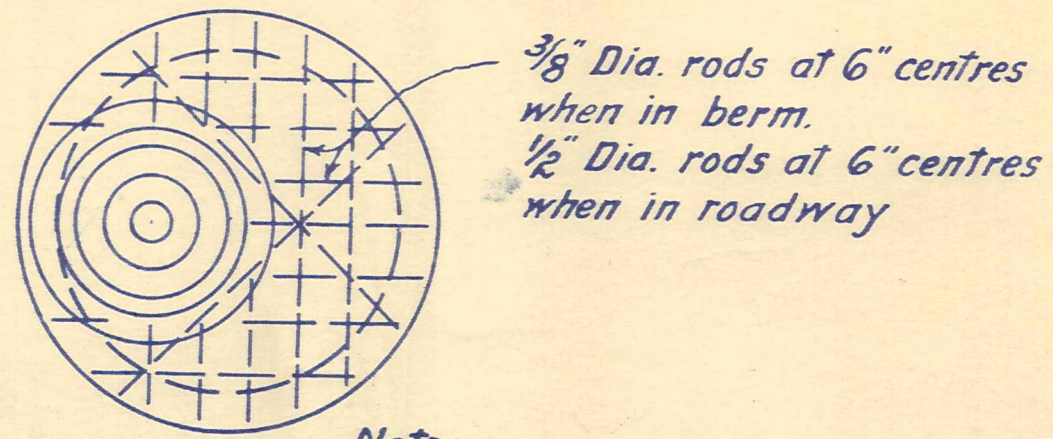
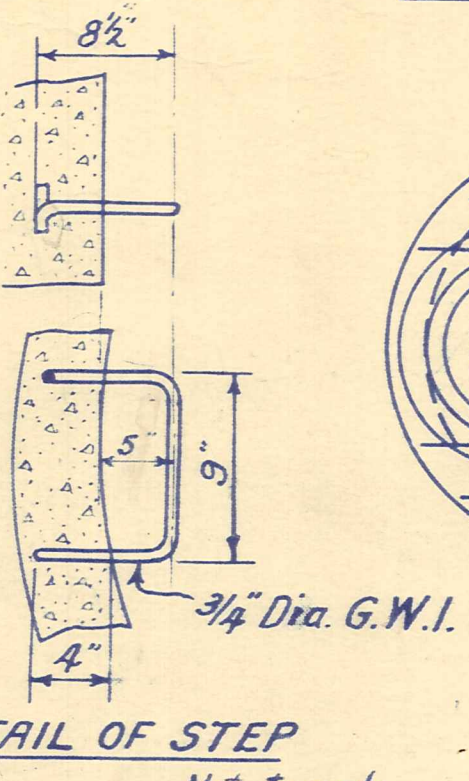
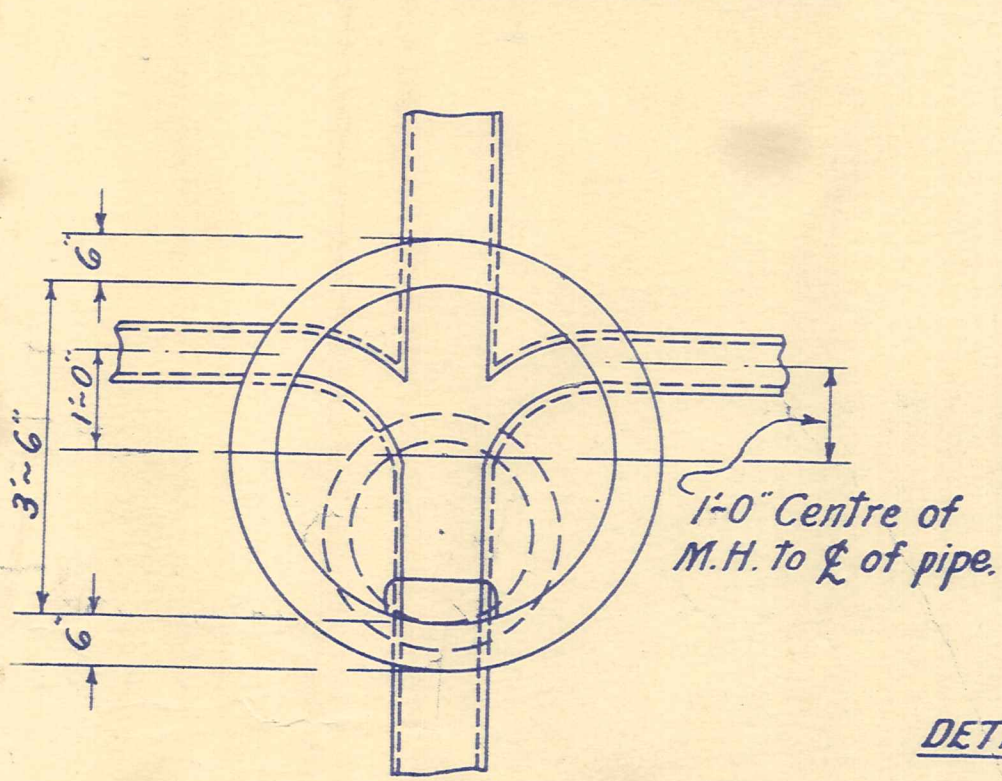
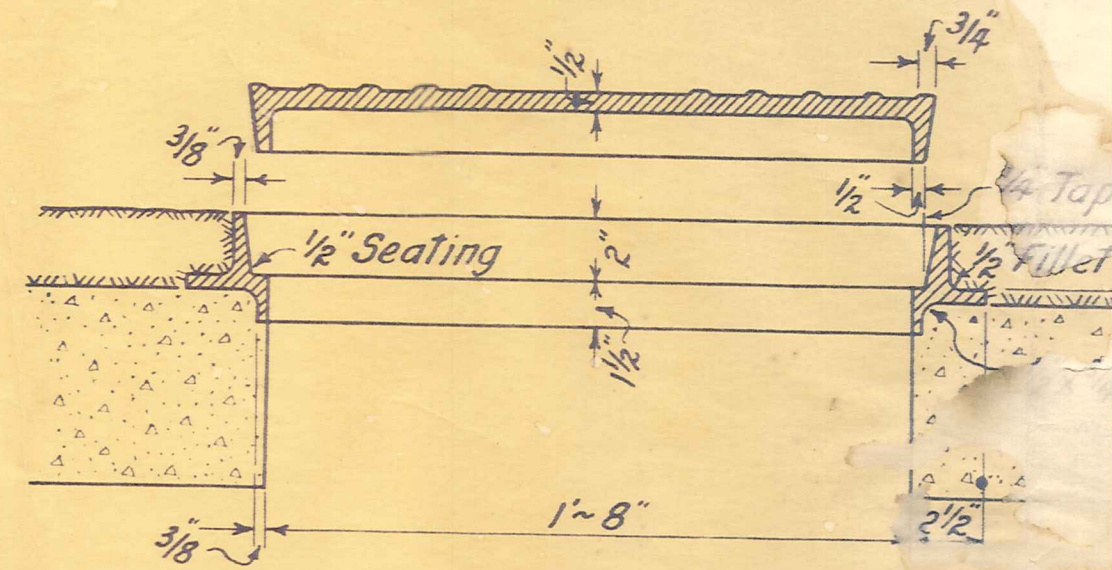
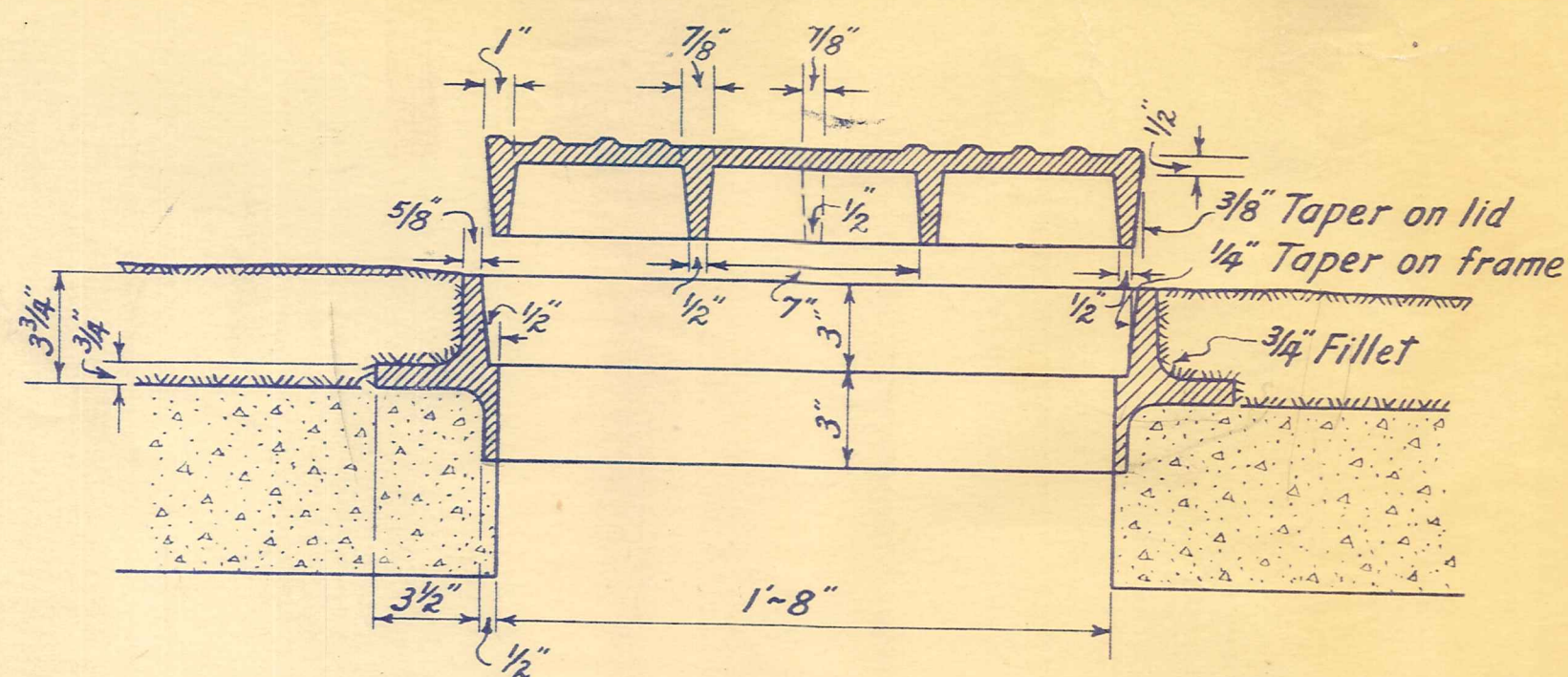
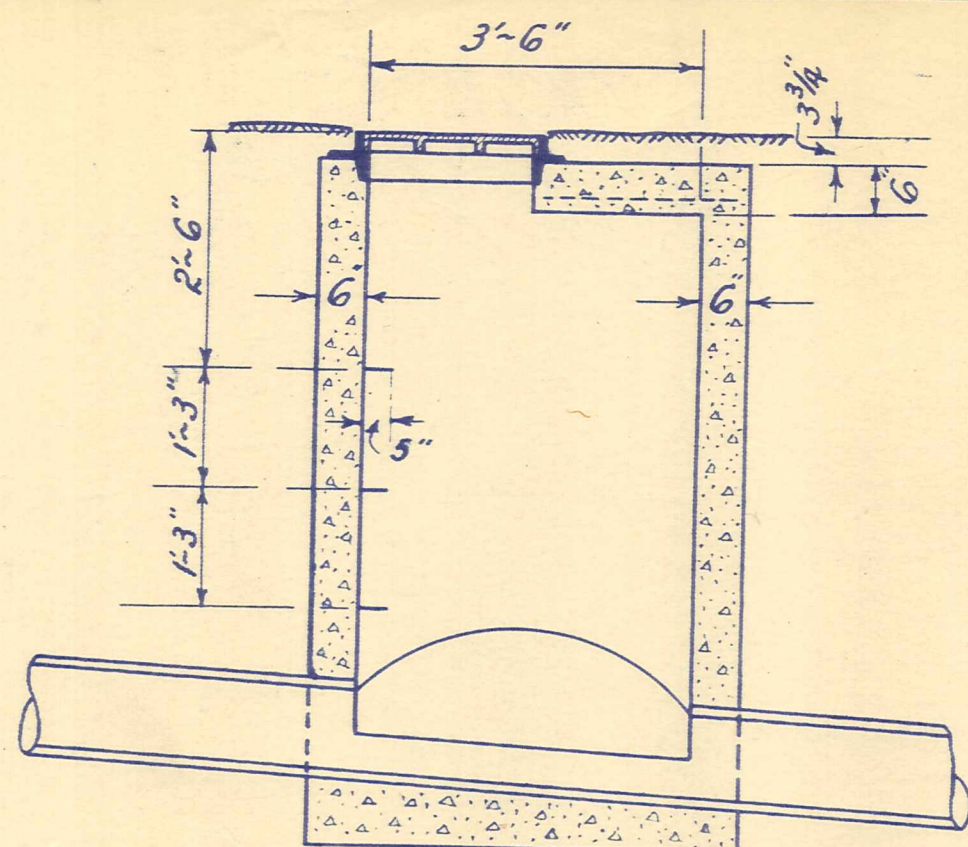
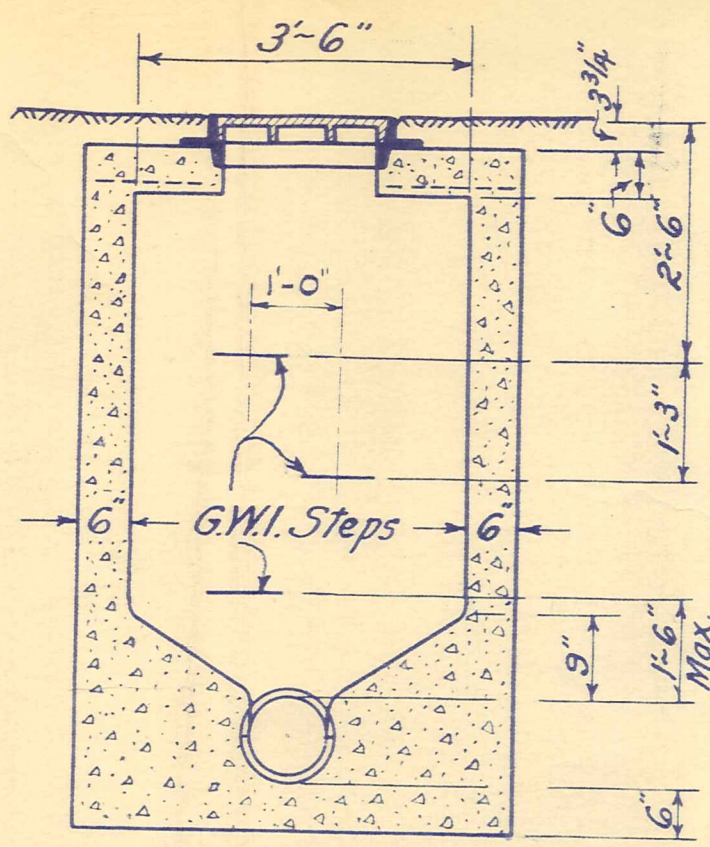
PROPOSED SEWERAGE DISPOSAL
ROSS SUBDIVISION ALEXANDRA

AMENDMENTS			NAME		DATE	JOB NO.	Sheet No
NO.	BY	DATE	Appvd.	Surveyed		8373	of shts
				Drawn	W.S. Young 4-6-1976		
				Calculations			
				Traced			
				Checked			
				Approved		File 19/317	L.B. F.B.

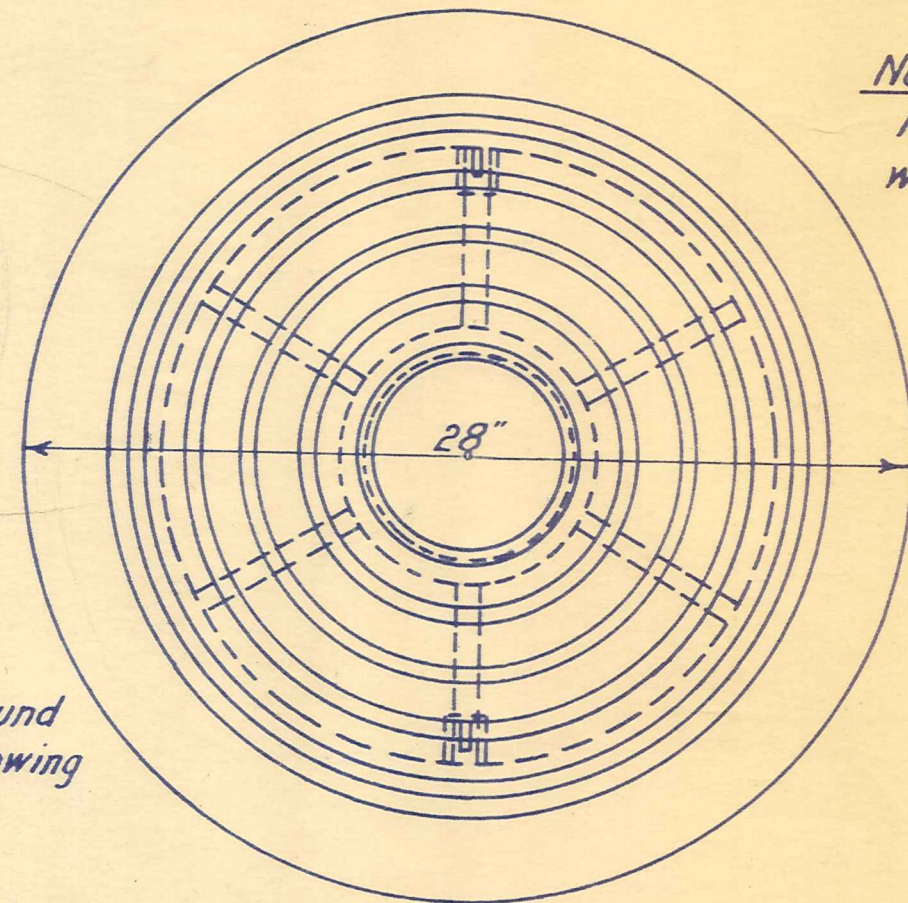
307



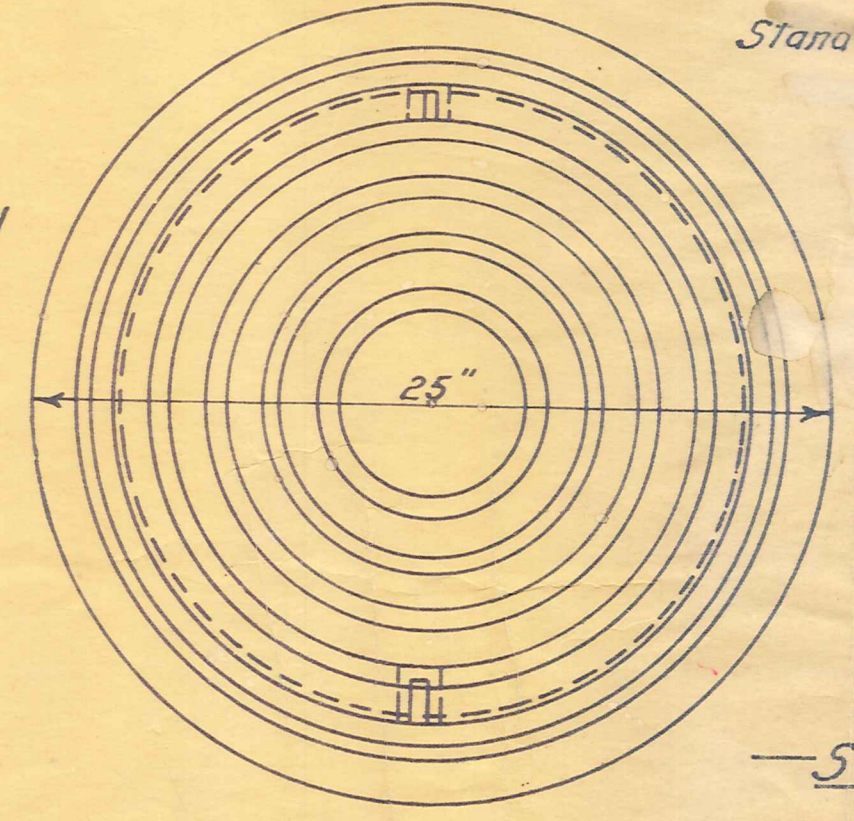
DETAILS OF HAUNCHING



Note:
For conc. pipes not greater than 9" dia. conc. surround will be required only when the cover is less than the following 1'-6" in roads and other places subject to traffic 1'-0" in places not subject to traffic. Where glazed earthenware pipes are used an additional 6" of cover is required.



HEAVY TYPE FOR ROADS



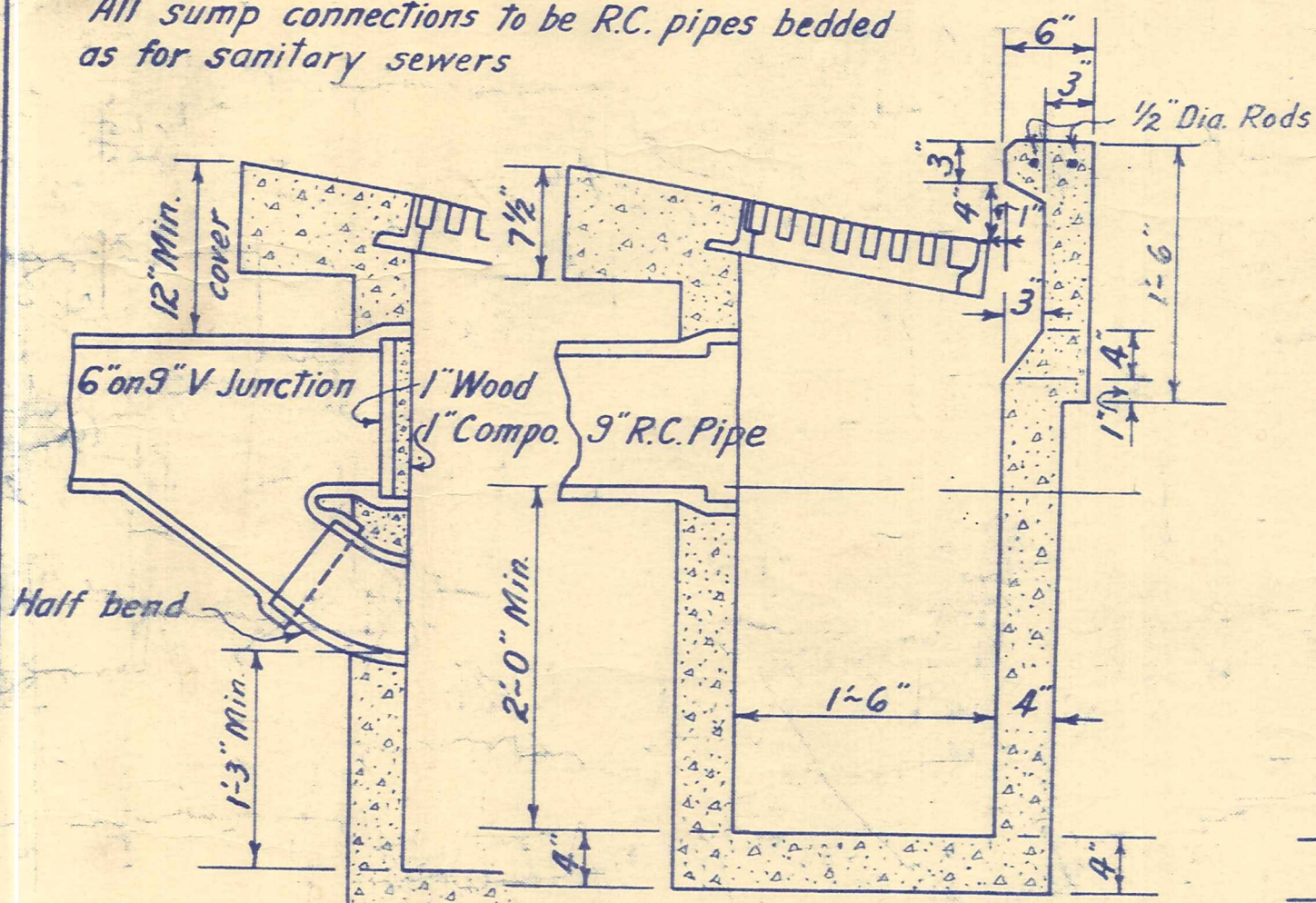
LIGHT TYPE MANHOLE COVER
(Use prohibited except in berms)

MANHOLES
Scale 1/2 ins = 1 ft.

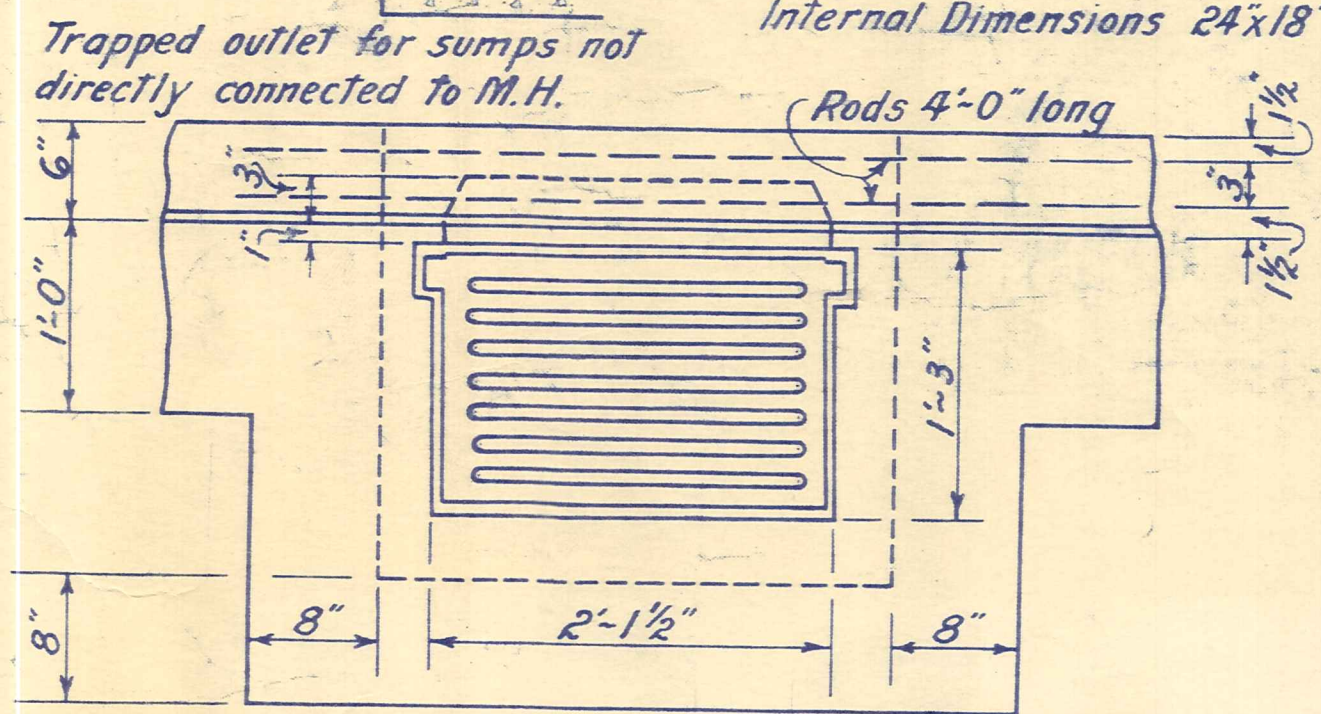
Note:
Manhole frame to be in position when pouring manhole top
Similar types of covers made locally may be used if approved

DETAIL OF MANHOLE COVERS
Scale 2 ins = 1 ft.

Note:
All sump connections to be R.C. pipes bedded as for sanitary sewers



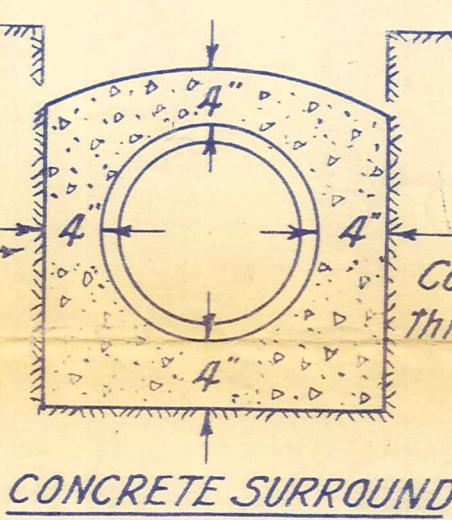
Internal Dimensions 24"x18"



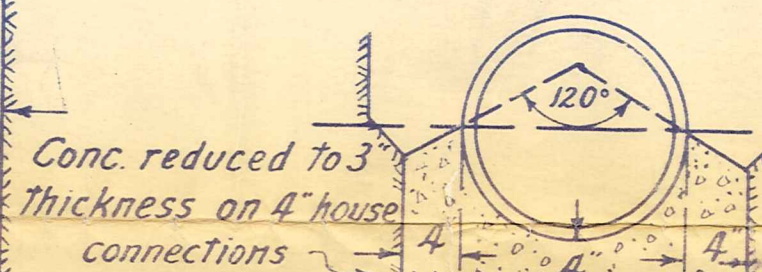
Note:
Other suitable gratings made locally may be used if approved.

STREET SUMP
Scale 1 ins = 1 ft.

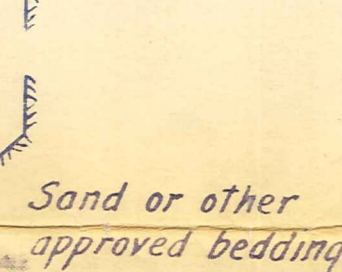
Conc. reduced to 3" thickness on 4" house connections



CONCRETE SURROUND



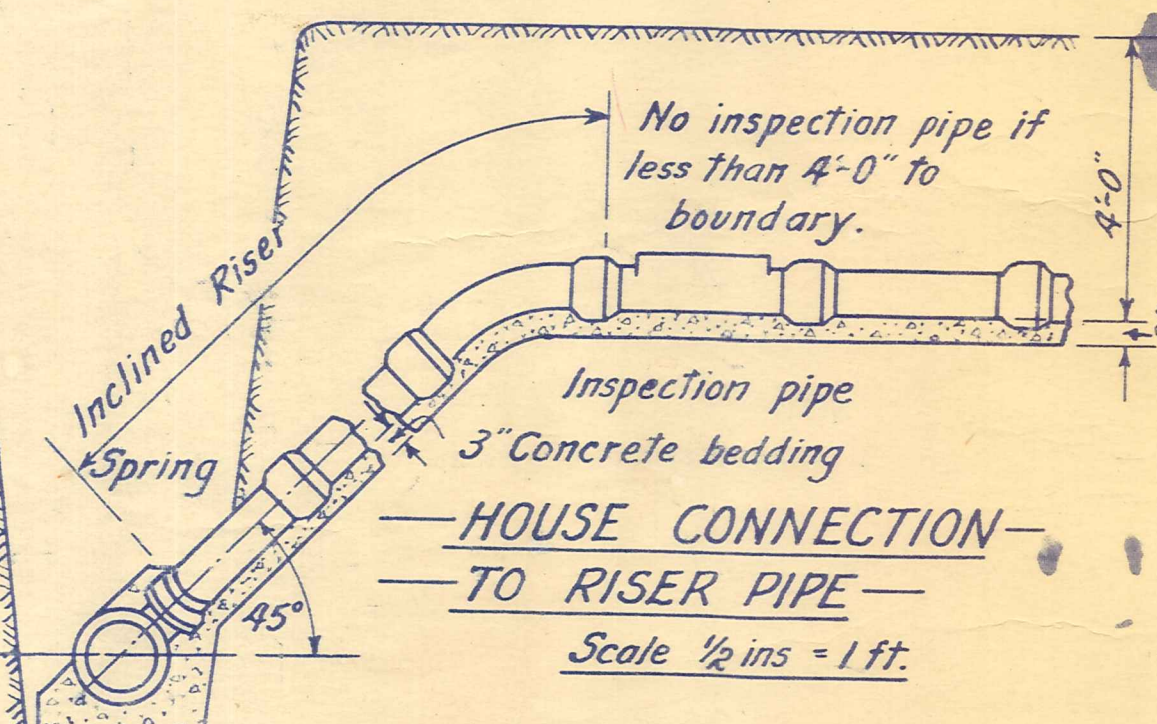
CONCRETE BEDDING



FIRST CLASS BEDDING

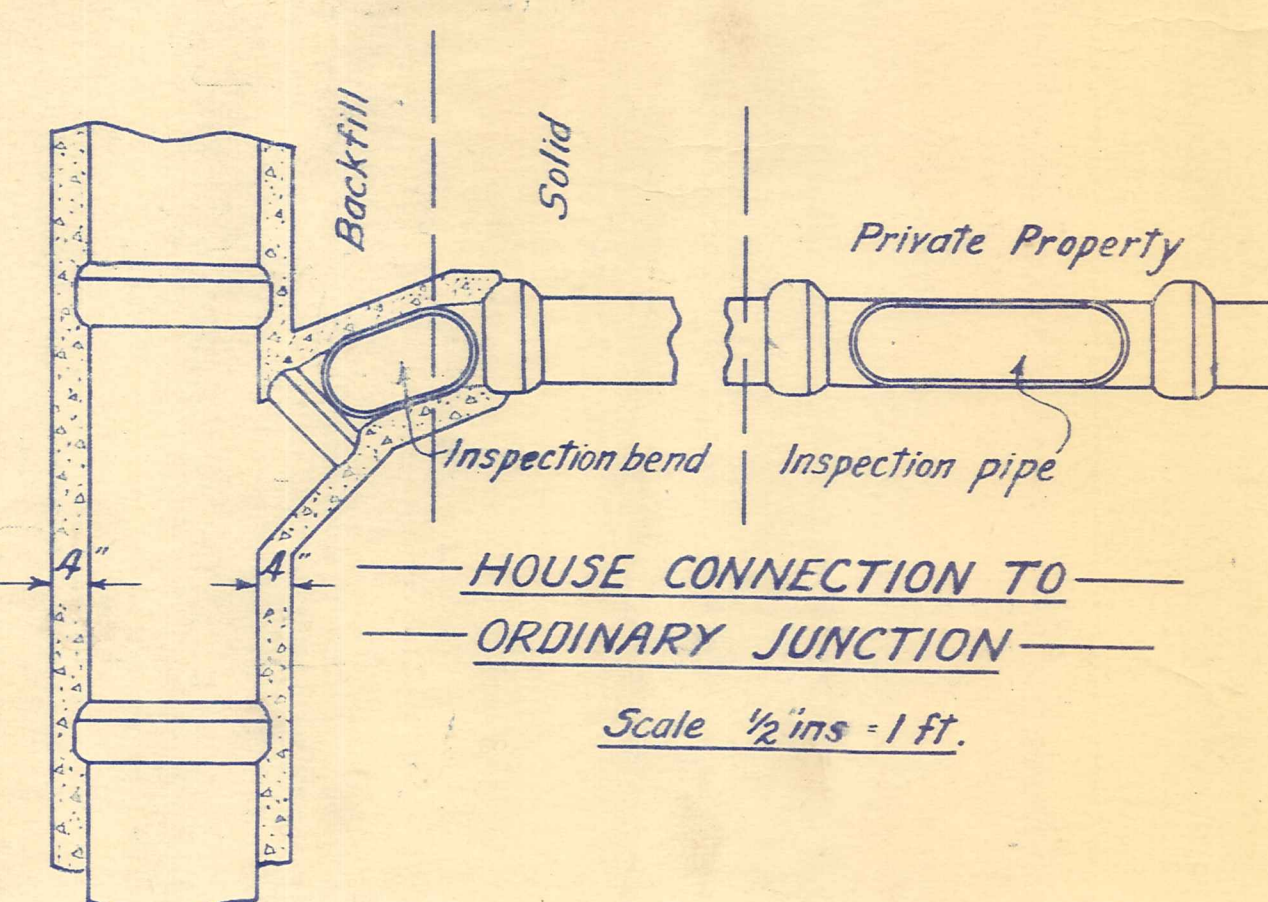
BEDDING OF SEWERS

Not to scale



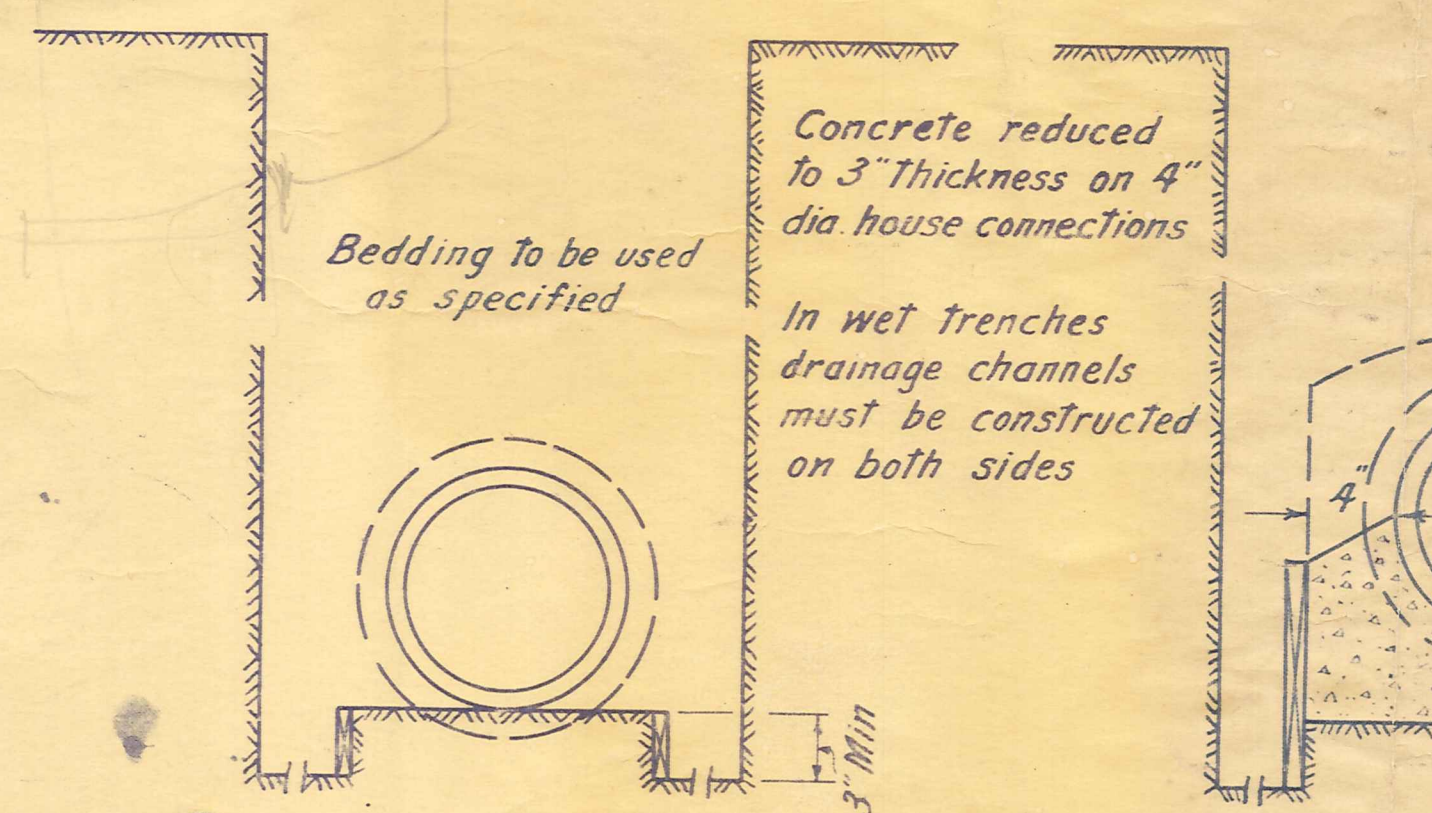
HOUSE CONNECTION TO RISER PIPE

Scale 1/2 ins = 1 ft.



HOUSE CONNECTION TO ORDINARY JUNCTION

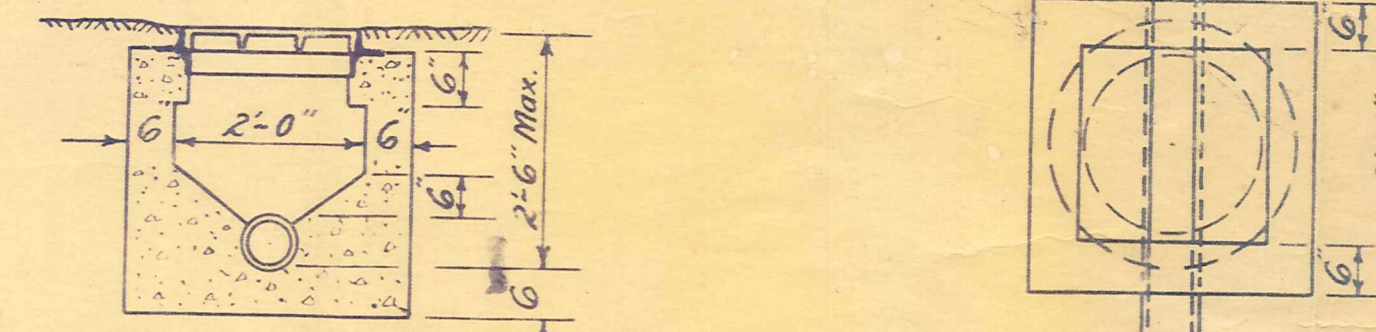
Scale 1/2 ins = 1 ft.



DEWATERING TRENCH FOR STORMWATER PIPES

DEWATERING

Not to scale



SHALLOW TYPE MANHOLE

Scale 1/2 ins = 1 ft.

Note:
These details may be used for works in areas where there is no local body with suitable standards of its own

TYPICAL DRAINAGE DETAILS

Name	Date	Date	Amend
Drawn H.D.W. 103/53/R3	8/47	25/156	Approved for drawing
Traced N.T. SUTTON	4/54		