

16 . BRIDGES

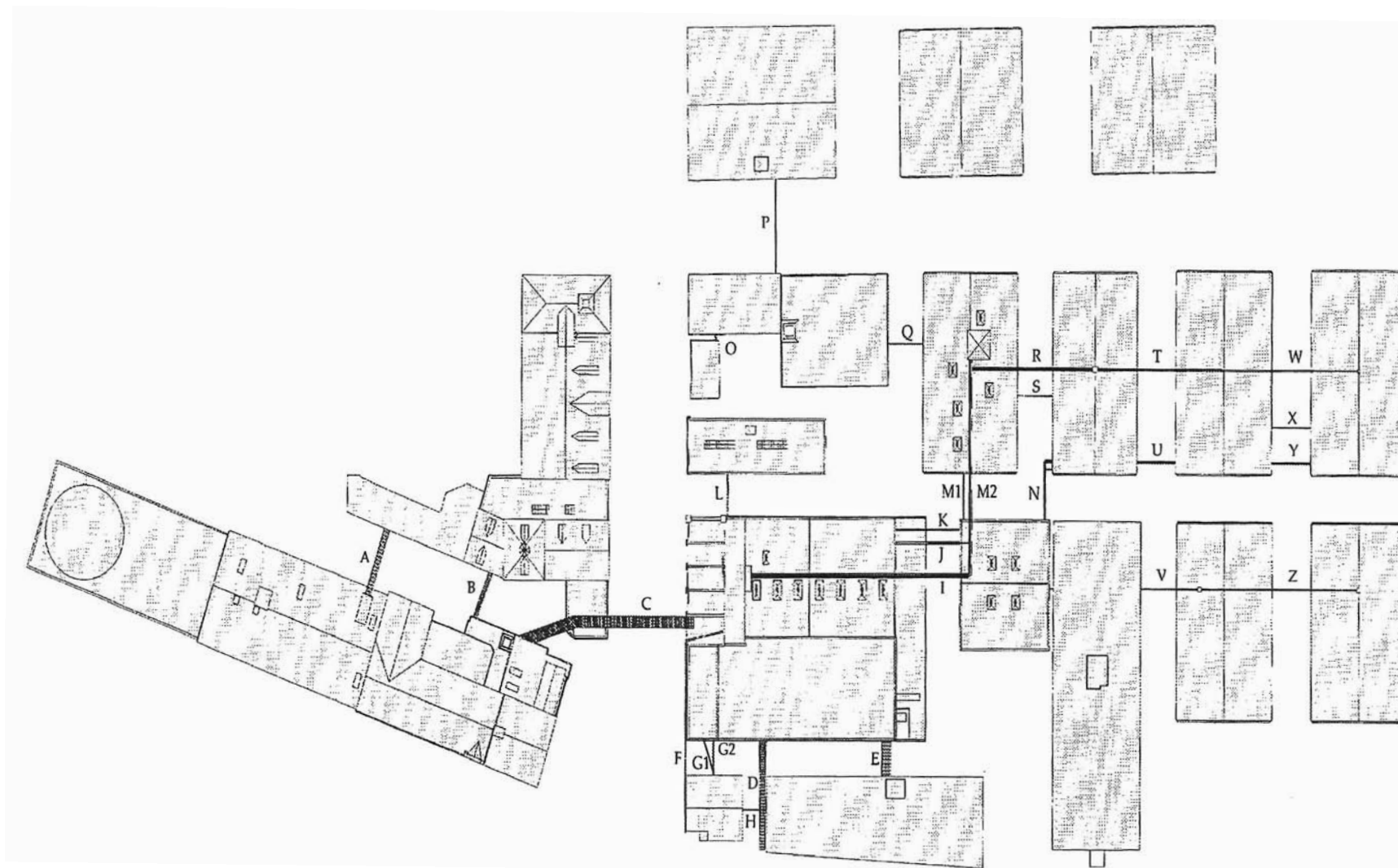
BRIDGES

INTRODUCTION

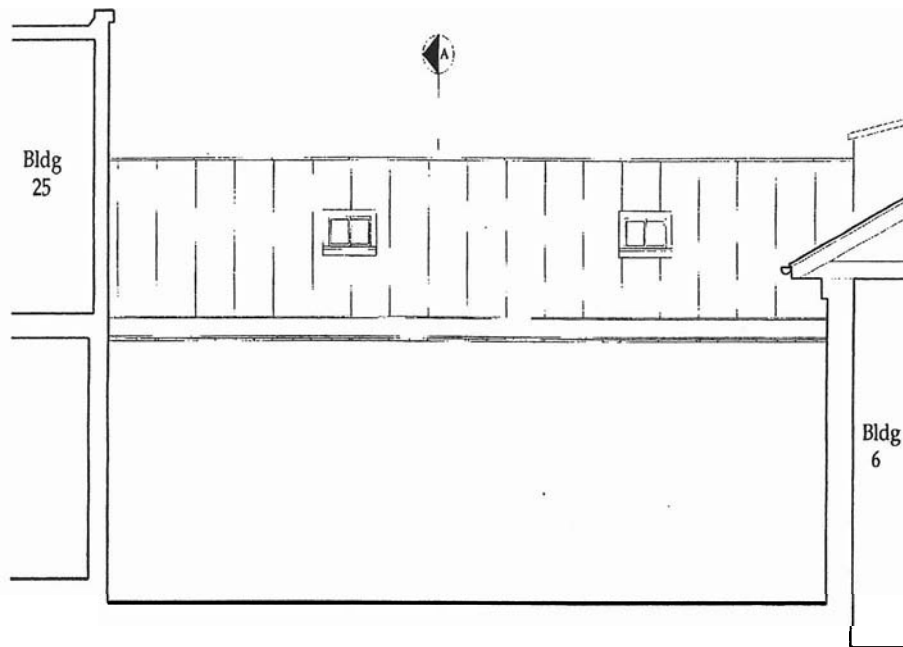
Bridges, Chutes and Overhead Pipes

These overhead structures contribute to the distillery's industrial plant character. Unlike buildings in cities where **services** are connected under the street, the industrial plant uses the more economical **above-grade** distribution systems to **allow** for the efficient movement of energy sources, people, and **products**. The **centrepiece** bridge **across** Trinity Street is the earliest construction, built in the late 1870s as a covered wooden structure with the signature cast iron **queen** post truss stiffening a wood superstructure. This became the construction motif for bridges on the site. Bridges, chutes and pipes, can **be** divided into five major types:

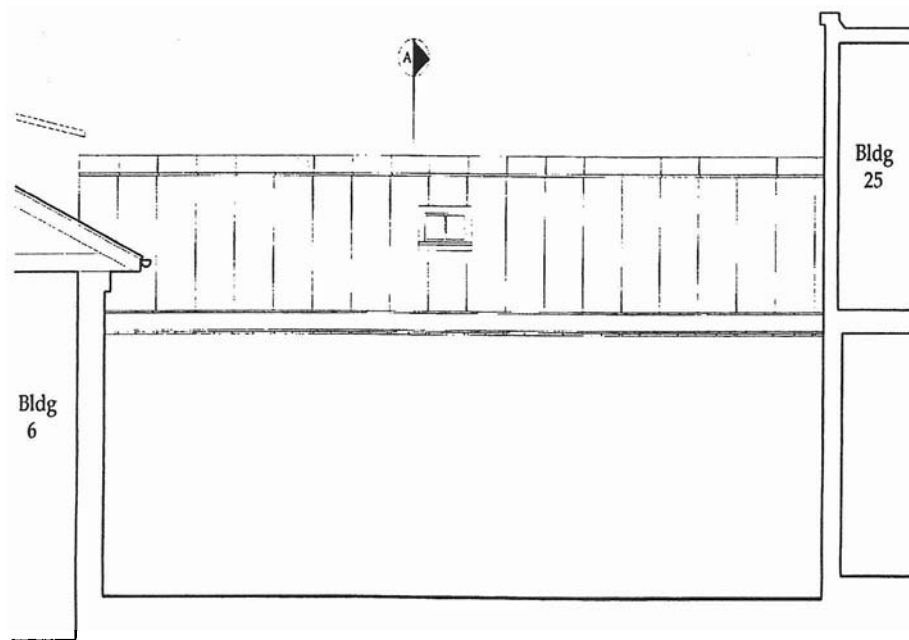
- **Alcohol Distribution:** is characterized by groups of blue painted **copper** pipes running from the distillery through to the scale lofts and out over the roofs distributing to various **tankhouses** for storage, blending or aging. Timber beams and queen post trusses support the alcohol lines as they span over spaces.
- **Steam Lines:** are insulated pipes which begin at the **Boiler** House beside the **Stone Distillery**. Throughout the site steam was **used** not only for space heating in the buildings and distilling, but also to drive duplex **pumps** for moving alcohol and other materials around the site.
- **The Fire Systems Control:** had both overhead and underground pipes **running** from the Pump House and **reservoir** among **all** **buildings** for the sprinkler system.
- **Case Goods:** were handled from the glycol canning operation in Buildings 58 and 59. **An** elaborate system of conveyors and chutes moved the cased anti-freeze goods from the canning line diagonally down to **trackside** for loading onto railway boxcars.
- **Pedestrian Bridges:** **linked** a number of buildings where it was **important** to move workers back and forth from one building to another.



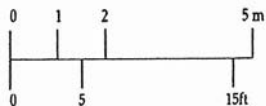
KEY PLAN
SHOWING BRIDGES, CHUTES AND OVERHEAD PIPES



WEST ELEVATION



EAST ELEVATION

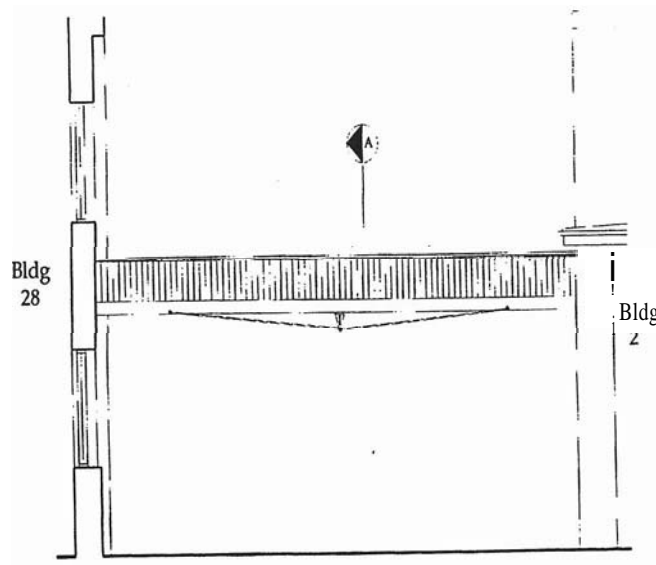


Location:	eave to wall
Length:	14m
Width:	1.45m
Depth:	3.06m
Clearance:	4.05m
Purpose:	pedestrian link
Materials	steel and timber structure, timber frame, tongue and groove interior paneling and corrugated iron exterior
Construction Date:	1941
Photo:	H2-31



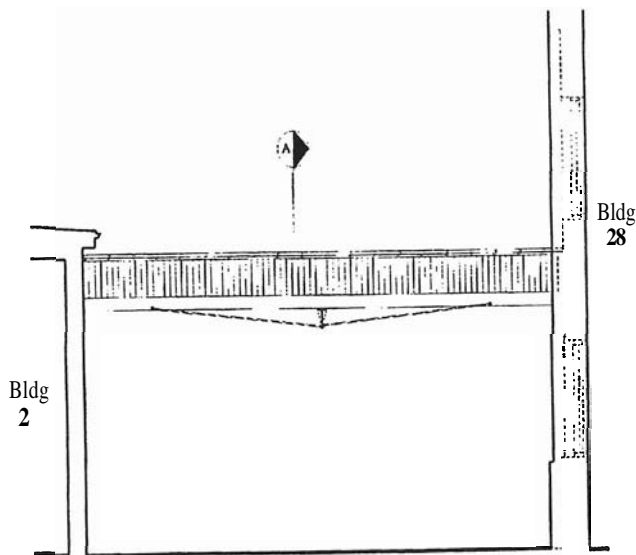
SECTION A

BRIDGE 'A'
FROM BLDG. 25 TO BLDG. 6

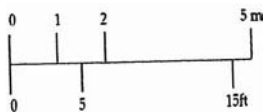
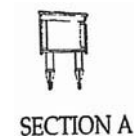


WEST ELEVATION

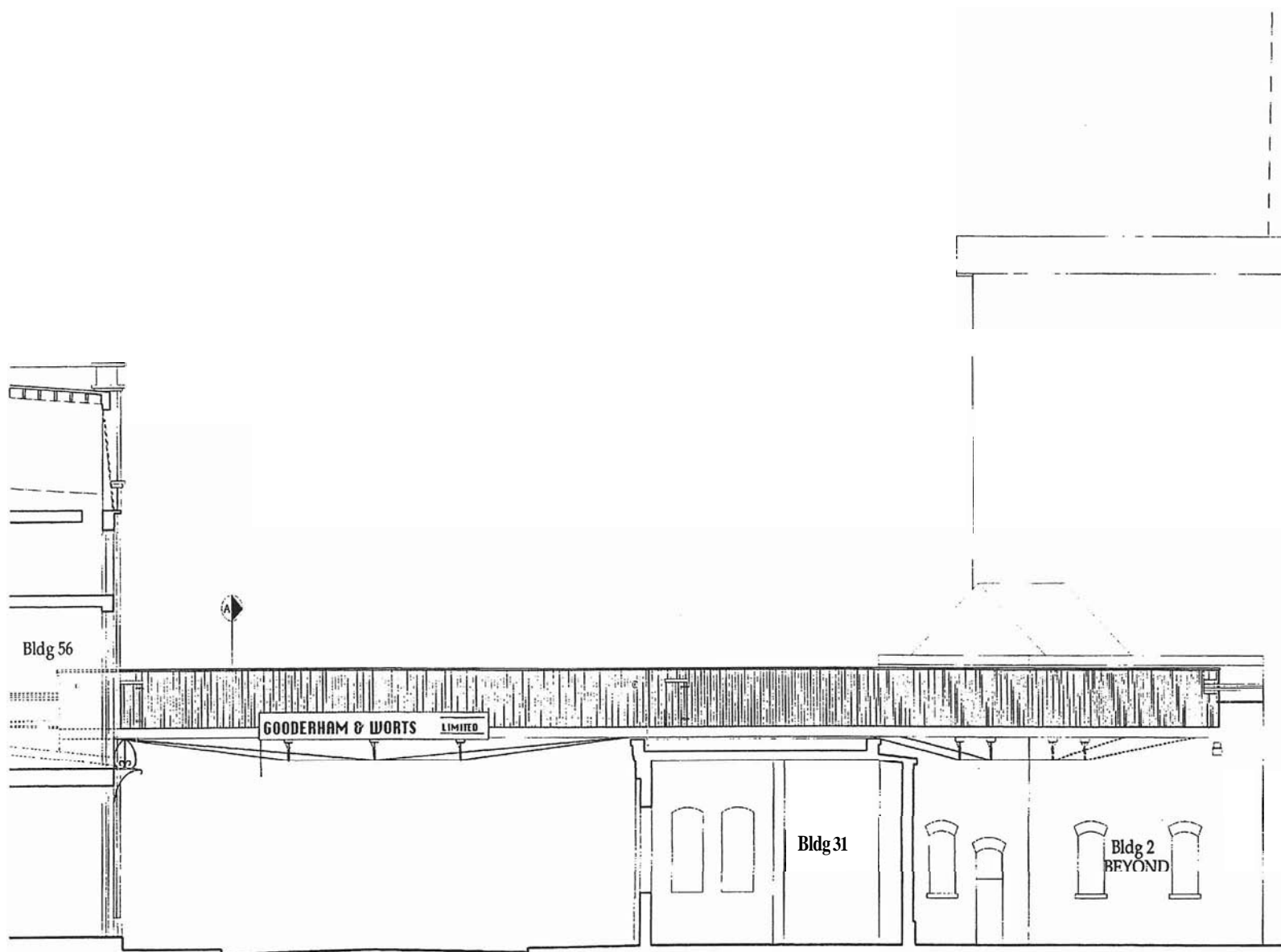
Location:	wall to wall
Length	9.3m
Width:	75cm
Depth:	1.45m
Clearance:	4.15m
Purpose:	steam and hot water
Materials:	2 timber beams with steel queen post truss, timber enclosure with roll roofing and batten roof
Photo:	H2-30



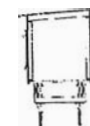
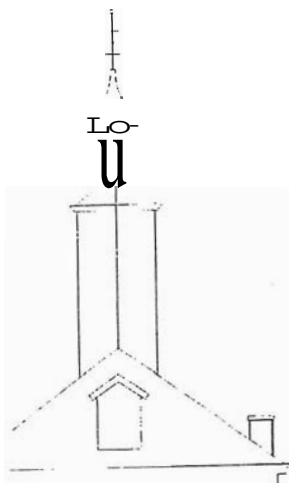
EAST ELEVATION



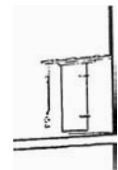
BRIDGE 'B'
FROM BLDG. 28 TO BLDG. 2



NORTH ELEVATION



SECTION A



EAST ELEVATION

Location:	wall to roof to roof
Length:	41m - two spans: 15m and 26m
Width:	2.0m
Depth:	13.2m
Clearance:	6.4m
Purpose:	general crawl access (alcohol, steam and condensate, sprinkler and glycol)
Materials:	timber with double steel queen post truss, timber enclosure with roll roofing and battens
Construction Date:	c 1880
Photo:	H2-33, HZ-34

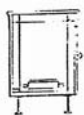


SOUTH ELEVATION

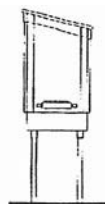


BRIDGE 'C'

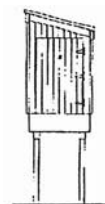
FROM BLDG. 2 TO BLDG. 31 TO BLDG. 57



SECTION A



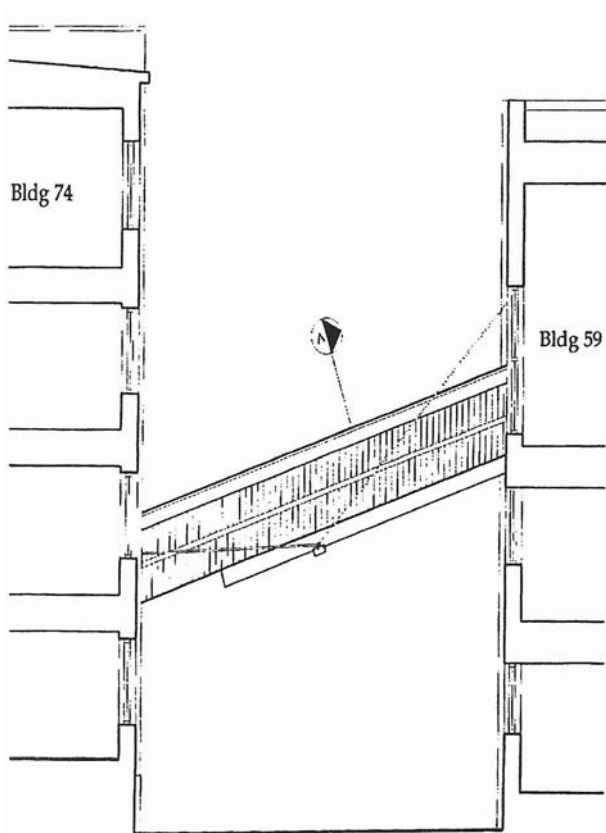
SECTION B



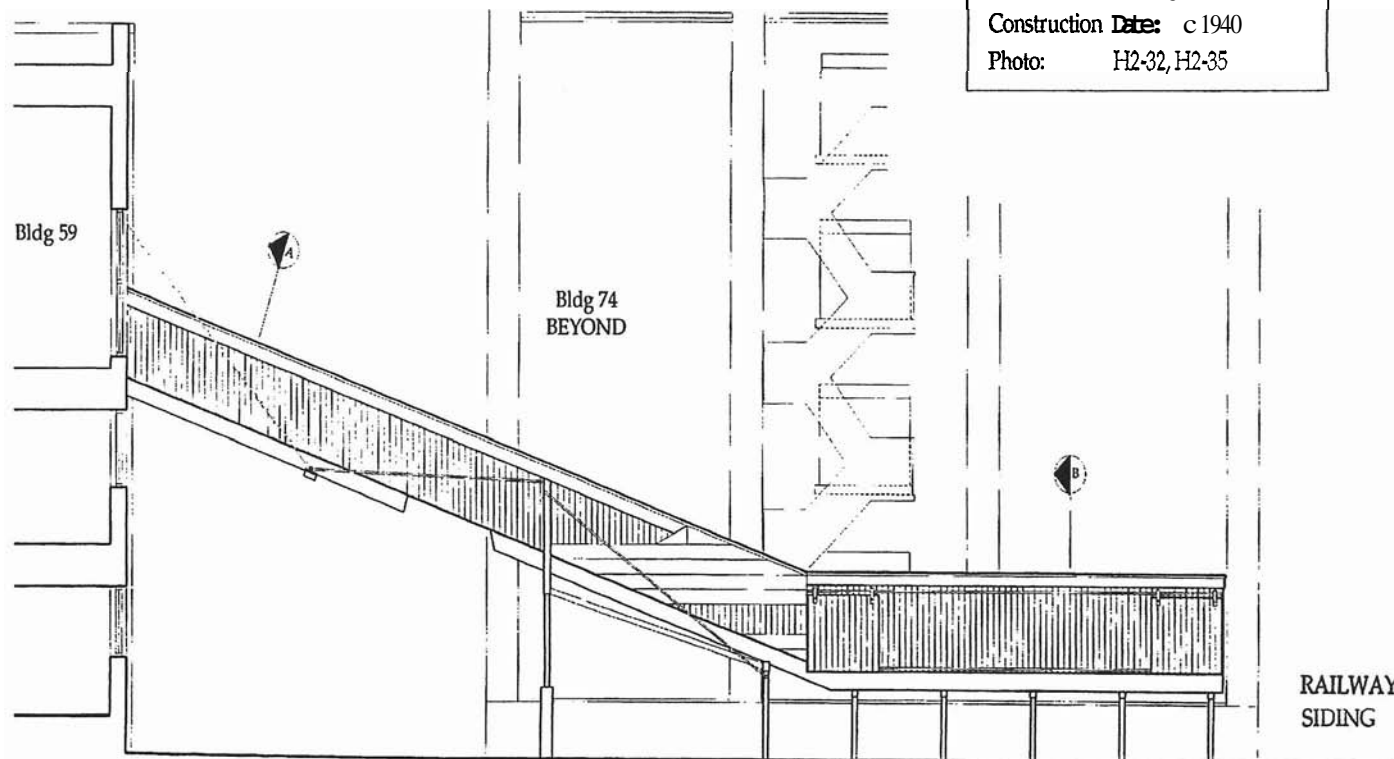
SOUTH ELEVATION



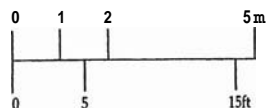
Location:	wall beside wall to railway siding
Length:	23m, 7.5m span
Width:	1.3m
Depth:	1.3m
Clearance:	4.1m to 7.1m
Purpose:	Casegoods (antifreeze) conveyor to railway box cars
Materials:	steel structure with steel tie rods, timber frame, tongue and groove siding and roll roofing
Construction Date:	c 1940
Photo:	H2-32, H2-35



EAST ELEVATION

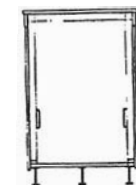


WEST ELEVATION



BRIDGE 'D'
FROM BLDG. 59 TO RAILWAY SIDING

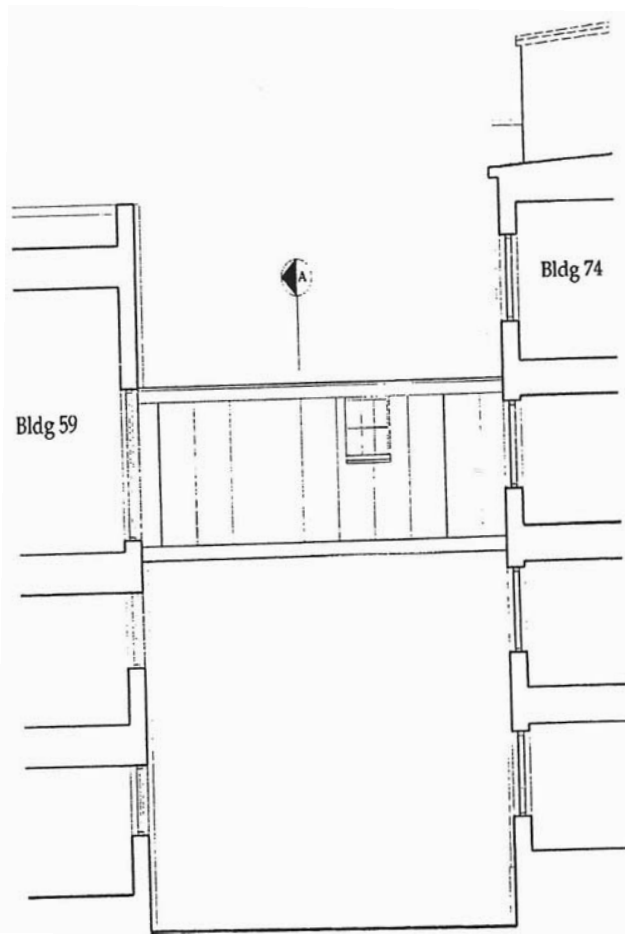
Location: wall to wall
 Length: 7.46m
 Width: 2.16m
 Depth: 2.9m
 Clearance: 6.4m
 Purpose: pedestrian link
 Materials: 3 steel T beams and structure, timber frame, corrugated steel siding with a tongue and groove siding interior
 Construction Date: n/a
 Photo: H2-36, H2-37



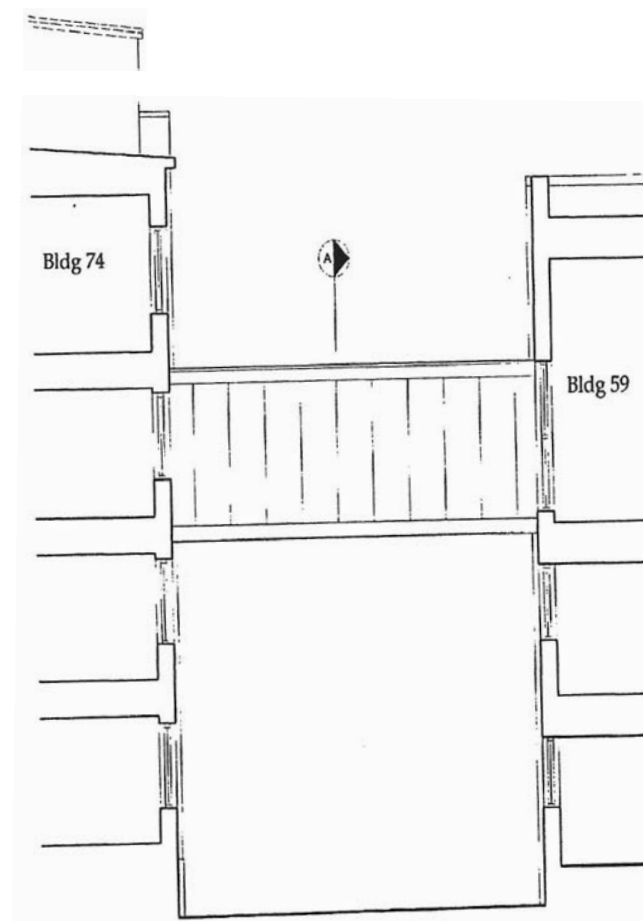
SECTION A

BRIDGE 'E'

FROM BLDG.59 TO BLDG.74



WEST ELEVATION



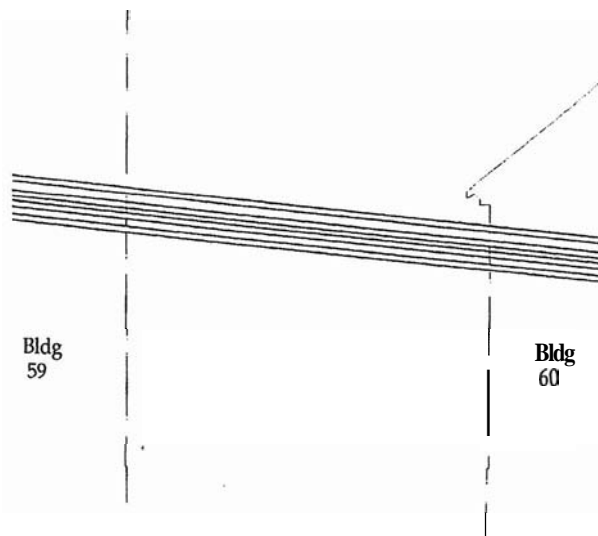
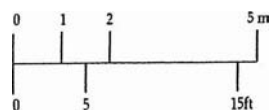
EAST ELEVATION



BRIDGE 'F'

FROM BLDG. 59 TO BLDG. 60

Location: sloping, building face to building face
 Length: 7.47m over laneway, 45m pipe run
 Width: 10cm
 Depth: 75cm
 Clearance: 5m sloping to 4.5m to the south
 Purpose: alcohol lines from pipe bridge to rail track valves
 Materials: copper pipe painted blue
 Photo: H2-32

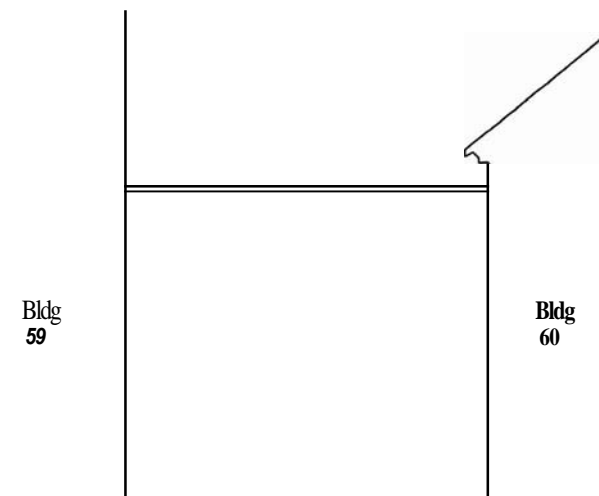
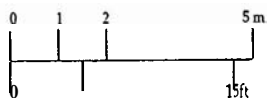


WEST ELEVATION

BRIDGE 'G1'

FROM BLDG. 59 TO BLDG. 60

Location: diagonal, wall to wall
 Length: 8m
 Width: 10cm
 Depth: 10cm
 Clearance: 5.2m
 Purpose: alcohol distribution to rail track valve
 Materials: copper pipe painted blue
 Photo: H2-32

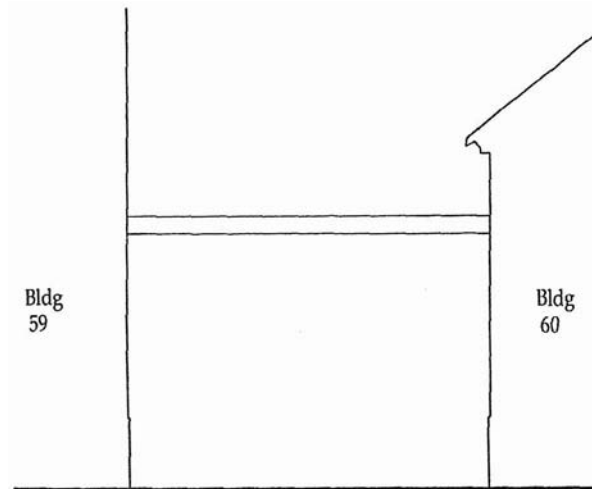
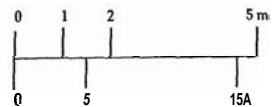


WEST ELEVATION

BRIDGE 'G2'

FROM BLDG. 59 TO BLDG. 60

Location: wall to wall
Length: 7.47m
Width: 30cm
Depth: 30cm
Clearance: 4.3m
Purpose: sprinkler water distribution pipe
Materials: insulated steel pipe
Photo: H2-32

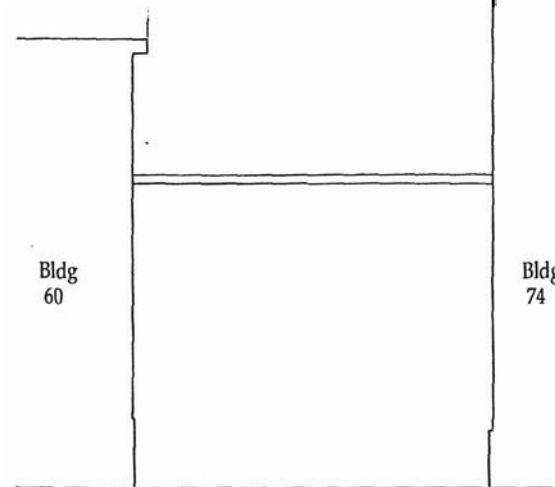
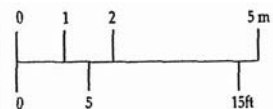


WEST ELEVATION

BRIDGE 'H'

FROM BLDG. 60 TO BLDG. 74

Location: wall to wall
Length: 7.3m
Width: 15cm
Depth: 15cm
Clearance: 5.2m
Purpose: steam distribution
Materials: insulated steel pipe
Photo: H2-35

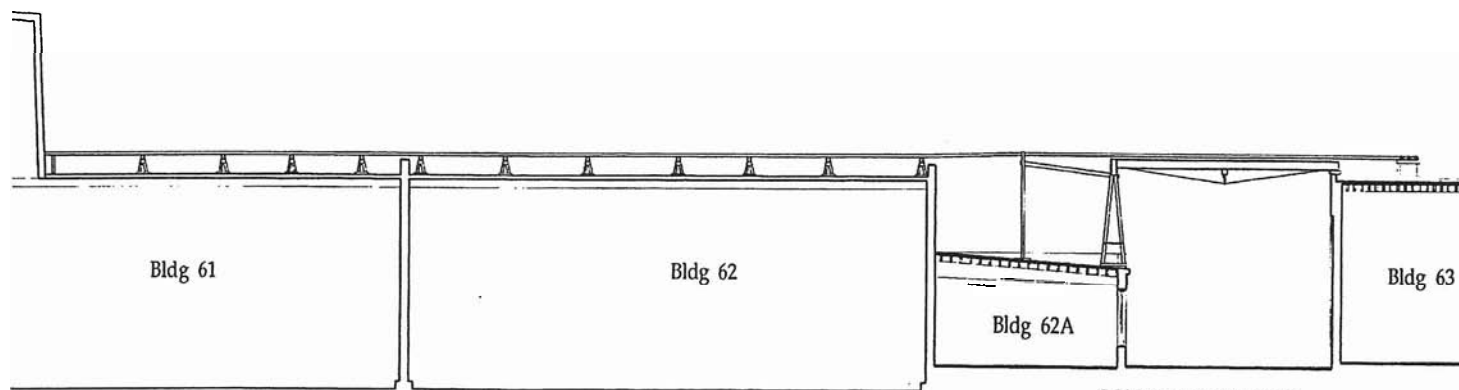


SOUTH ELEVATION

BRIDGE 'I'

FROM BLDG. 62A TO BLDG. 63

Location: roof to roof on wood trestle
 Length: 85m (span) 58m over roof
 Width: 1.0m
 Depth: 90cm
 Clearance: 7.5m
 purpose: alcohol distribution
 Materials: copper pipe double timber beams with steel queen post truss on timber pier
 Photo: H2-24

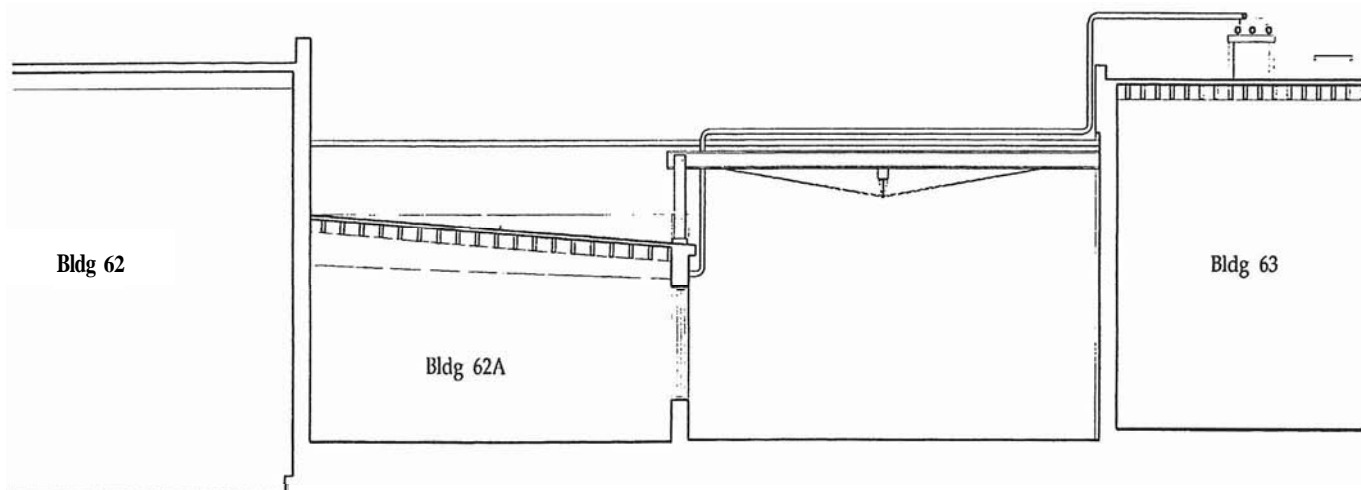


SOUTH ELEVATION

BRIDGE 'J'

FROM BLDG. 62A TO BLDG. 63

Location: wall over roof to wall on trestle
 Length: 8.5m (span) 16.5m over roof
 Width: 1.0m
 Depth: 76m
 Clearance: 4.2m
 Purpose: alcohol distribution
 Materials: copper pipe double timber beams with steel queen post truss on timber pier
 Photo: H2-24

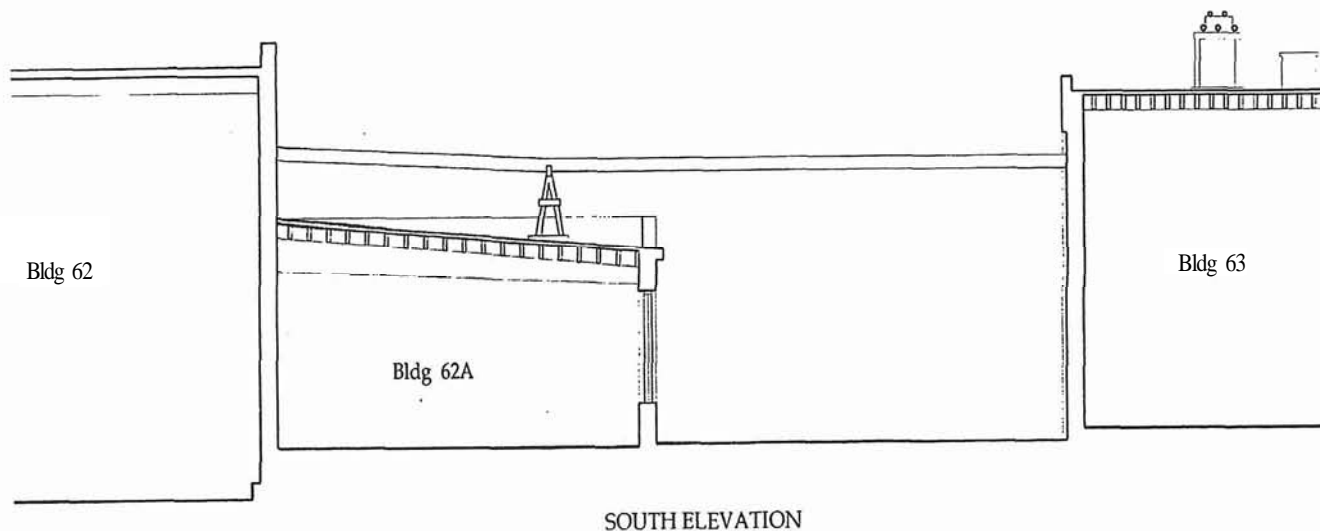
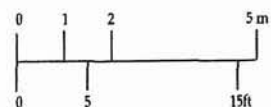


SOUTH ELEVATION

BRIDGE 'K'

FROM BLDG. 62A TO BLDG. 63

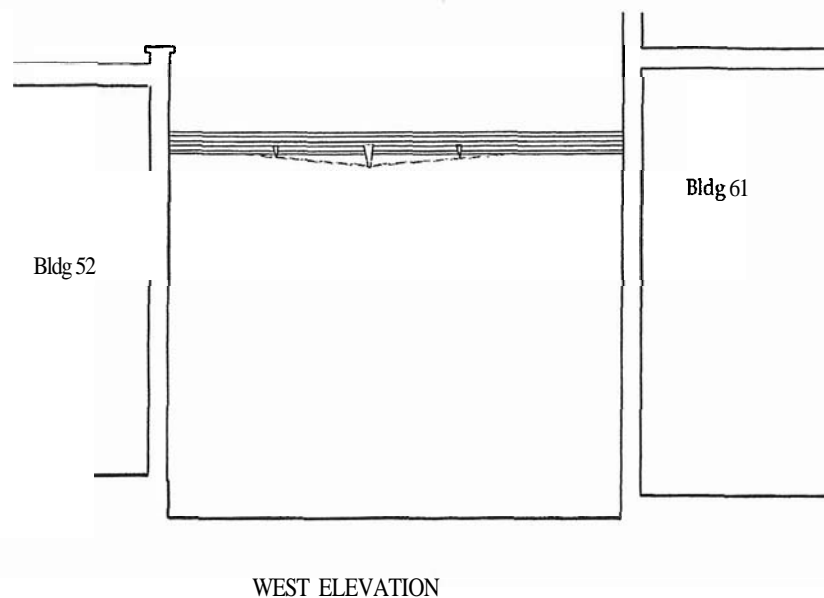
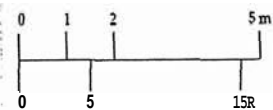
Location: wall over roof to wall on trestle
 Length: 8.5m (span) 16.5m over roof
 Width: 30cm
 Depth: 30cm
 Clearance: 4.2m
 Purpose: steam supply
 Materials: insulated steel pipe on timber pier
 Photo: H2-24



BRIDGE 'L'

FROM BLDG. 52 TO BLDG. 61

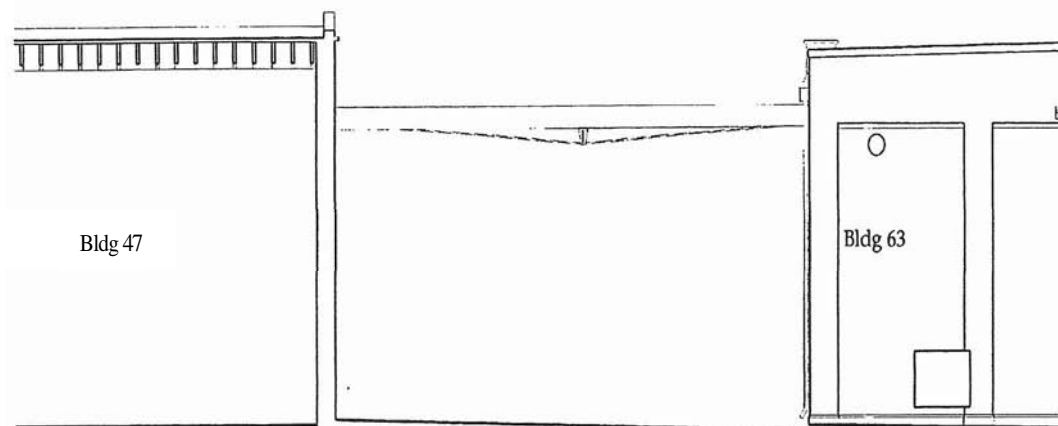
Location: wall to wall
 Length: 9.2m
 Width: 30cm
 Depth: 30cm
 Clearance: 4.7m
 Purpose: steam supply
 Materials: insulated steel pipe with steel queen post truss and electrical conduit
 Photo: H2-28



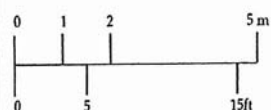
BRIDGE 'M1'

FROM BLDG. 47 TO BLDG. 63

Location: wall to wall
 Length: 9.46m
 Width: 15cm
 Depth: 30cm
 Clearance: 5m
 Purpose: steam supply
 Materials: insulated steel pipe with
 steel queen post truss
 Photo: H2-22



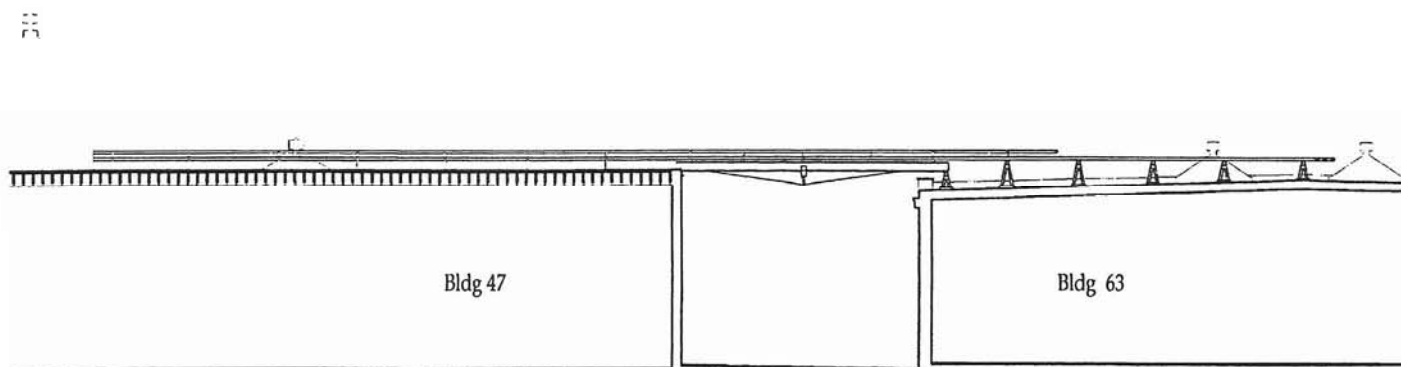
WEST ELEVATION



BRIDGE 'M2'

FROM BLDG. 47 TO BLDG. 63

Location: roof to roof on props
 Length: 9.46m span, 52m pipe run
 Width: 80cm
 Depth: 1.0m
 Clearance: 6.2m
 Purpose: alcohol distribution
 Materials: copper pipes timber beams
 and steel queen post truss
 Photo: H2-22



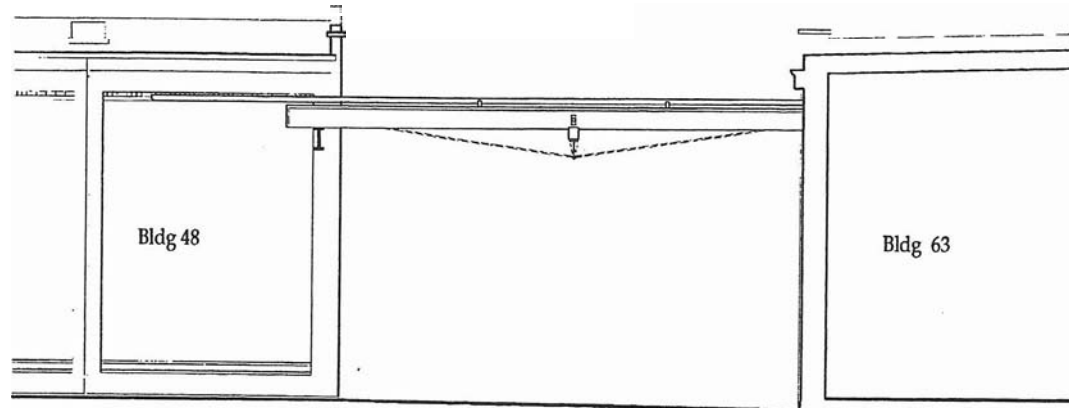
WEST ELEVATION



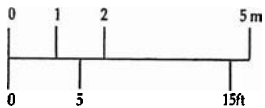
BRIDGE 'N'

FROM BLDG. 48 TO BLDG. 63

Location: wall to side of building
 Length: 11.25
 Width: 40cm
 Depth: 80cm
 Clearance: 5m
 Purpose: alcohol distribution
 Materials: copper pipe, timber beams,
 steel **queen** post truss and
 elbow brace corner
 Photo: H2-22



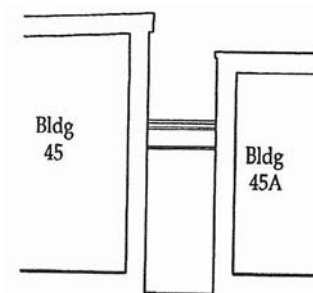
WEST ELEVATION



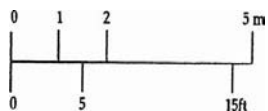
BRIDGE 'O'

FROM BLDG. 45 TO BLDG. 45A

Location: wall to wall
 Length: 1.5m
 Width: 40cm
 Depth: 35cm
 Clearance: 2.5m
 Purpose: steam
 Materials: timber box around 15cm
 insulated pipe
 Photo: H2-27



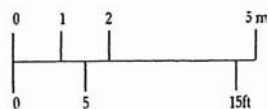
WEST ELEVATION



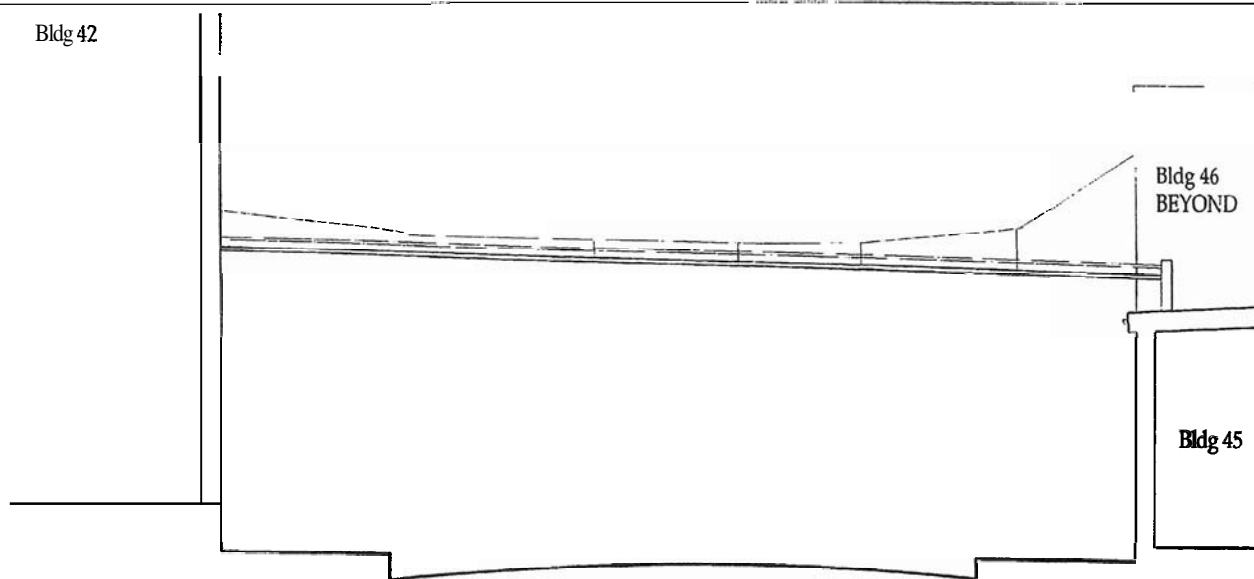
BRIDGE 'P'

FROM BLDG. 42 TO BLDG. 45

Location: wall to wall
 Length: 20.1m
 Width: 15cm
 Depth: 80cm
 Clearance: 5.2m
 Purpose: steam supply
 Materials: 15cm insulated steel pipe
 with wire rope catenary
 suspension and metal strap
 hangers
 Photo: H2-29



Bldg 42

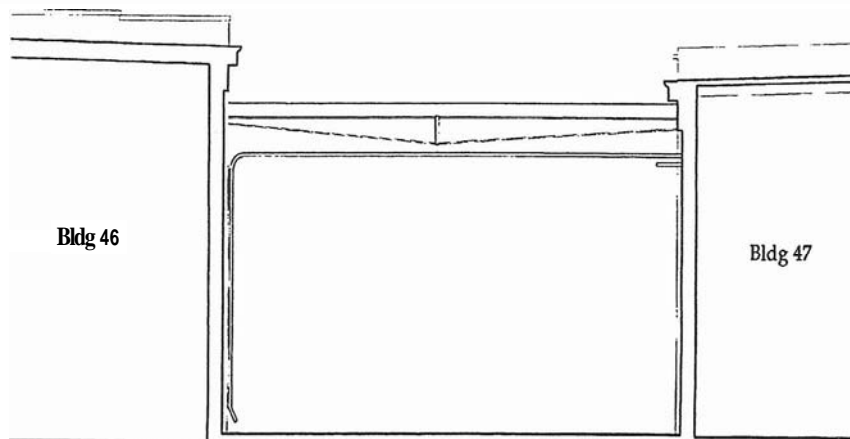
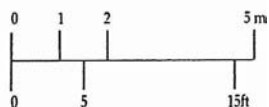


WEST ELEVATION

BRIDGE 'Q'

FROM BLDG. 46 TO BLDG. 47

Location: wall to wall
 Length: 9.65m
 Width: 15cm
 Depth: 45cm
 Clearance: 5m
 Purpose: steam supply with gas line
 suspended beneath metal
 strap
 Materials: insulated steel pipe
 Photo: H2-26

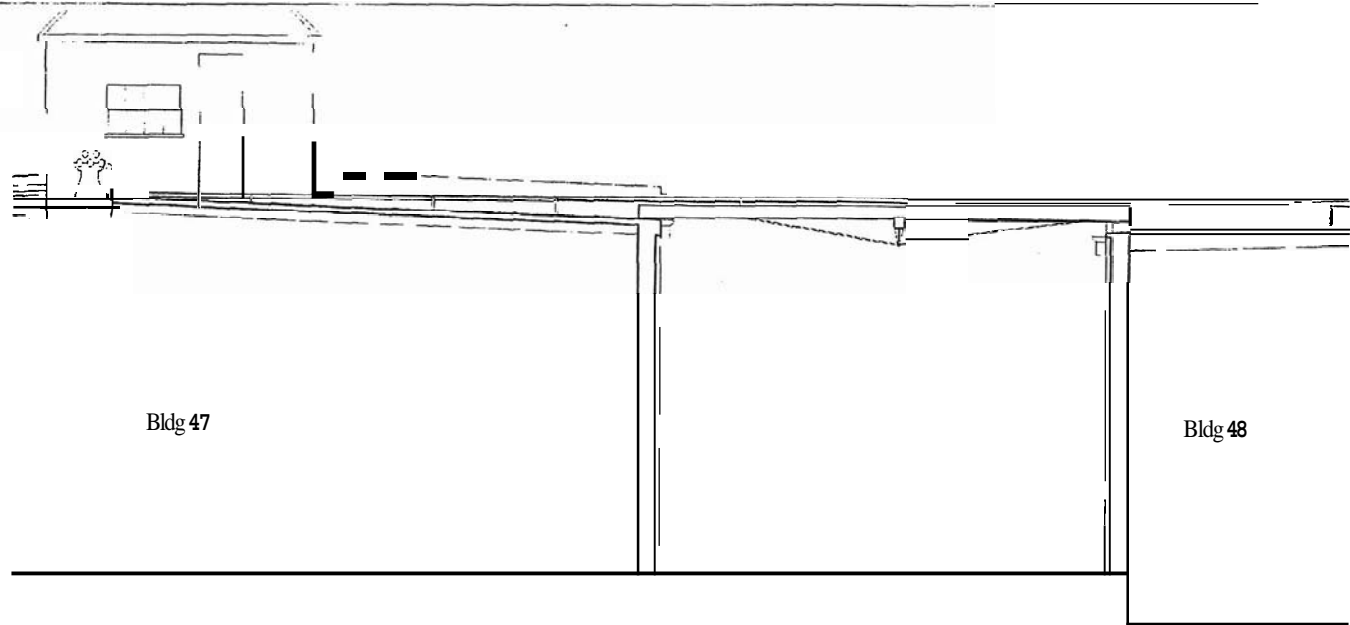


SOUTH ELEVATION

BRIDGE 'R'

FROM BLDG. 47 TO BLDG. 48

Location: roof to roof
 Length: 9.13m
 Width: 40cm
 Depth: 75cm
 Clearance: 6.0m
 Purpose: alcohol distribution
 Materials: copper pipes with timber beam and steel queen post truss
 Photo: H2-23

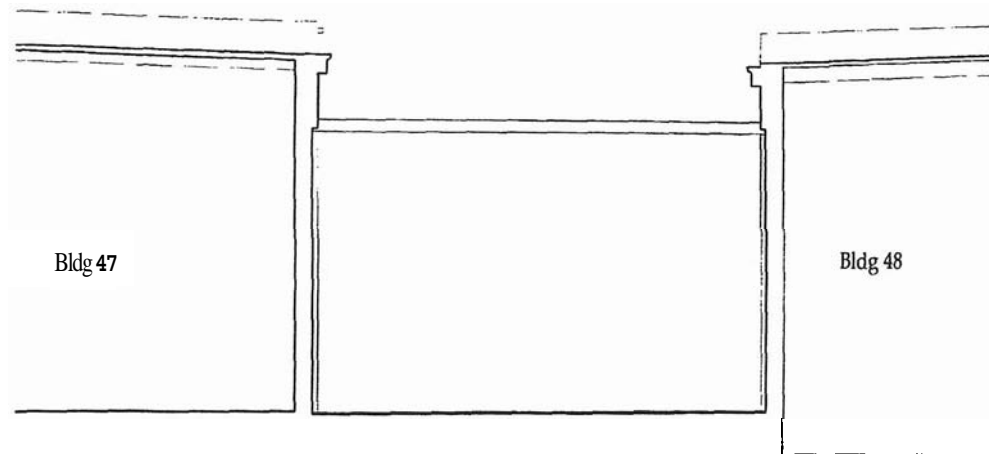


SOUTH ELEVATION

BRIDGE 'S'

FROM BLDG. 47 TO BLDG. 48

Location: wall to wall
 Length: 9.12m
 Width: 15cm
 Depth: 15cm
 Clearance: 5.2m
 Purpose: sprinkler pipe
 Materials: insulated steel pipe with wire strut and missing standoff
 Photo: H2-23

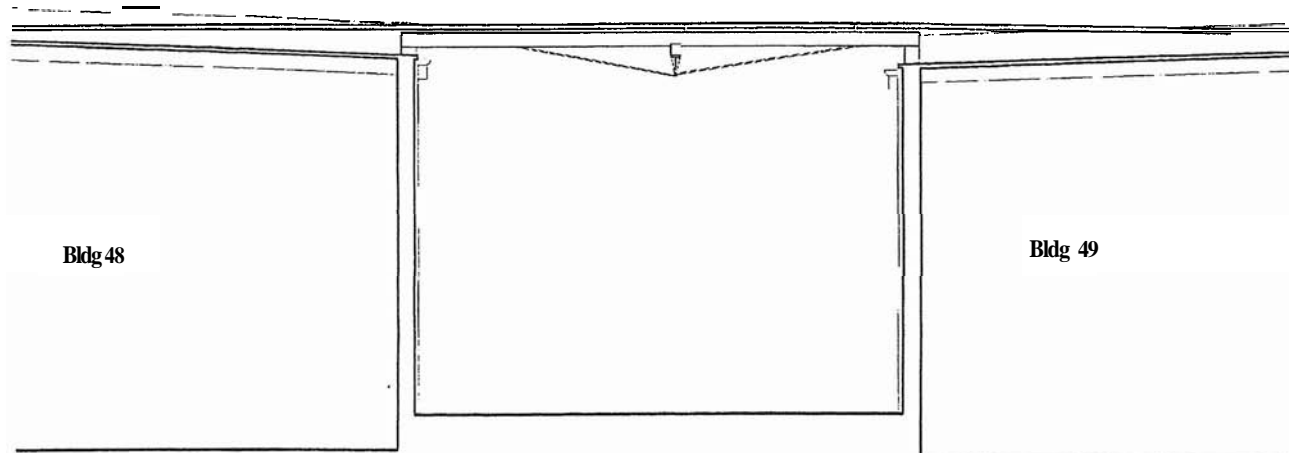


SOUTH ELEVATION

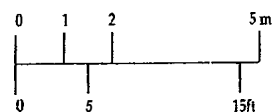
BRIDGE 'T'

FROM BLDG. 48 TO BLDG. 49

Location: roof to roof on props
 Length: 10.06m with 98m pipe run
 Width: 40cm
 Depth: 75cm
 Clearance: 6.0m
 Purpose: alcohol distribution
 Materials: copper pipes on timber beams with steel queen post truss
 Photo: H2-21



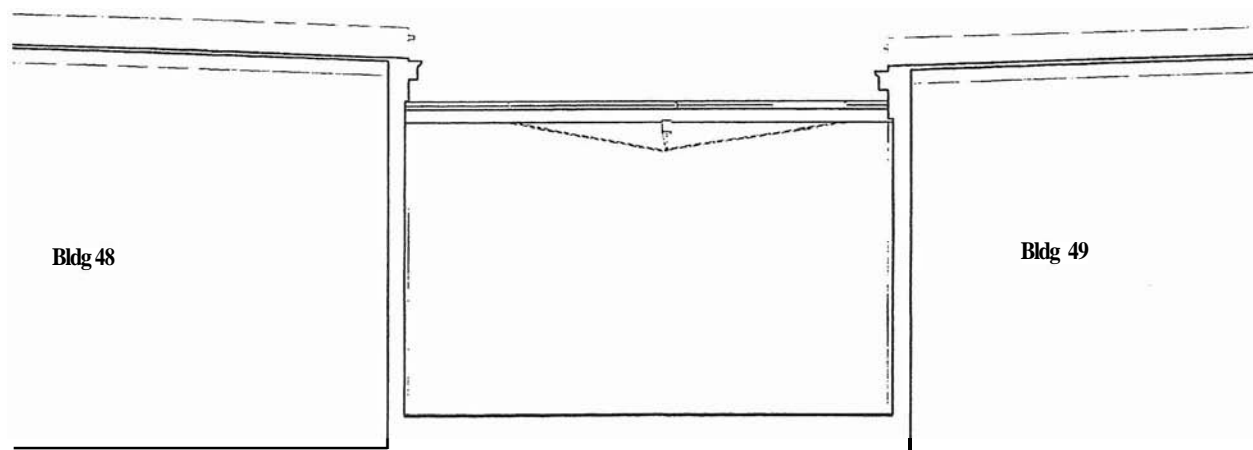
SOUTH ELEVATION



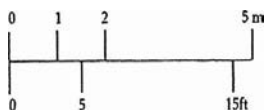
BRIDGE 'U'

FROM BLDG. 48 TO BLDG. 49

Location: wall to wall
 Length: 10.06m
 Width: 40cm
 Depth: 60cm
 Clearance: 5.4m
 Purpose: alcohol distribution
 Materials: copper pipe, timber beams, and queen post truss
 Photo: H2-21



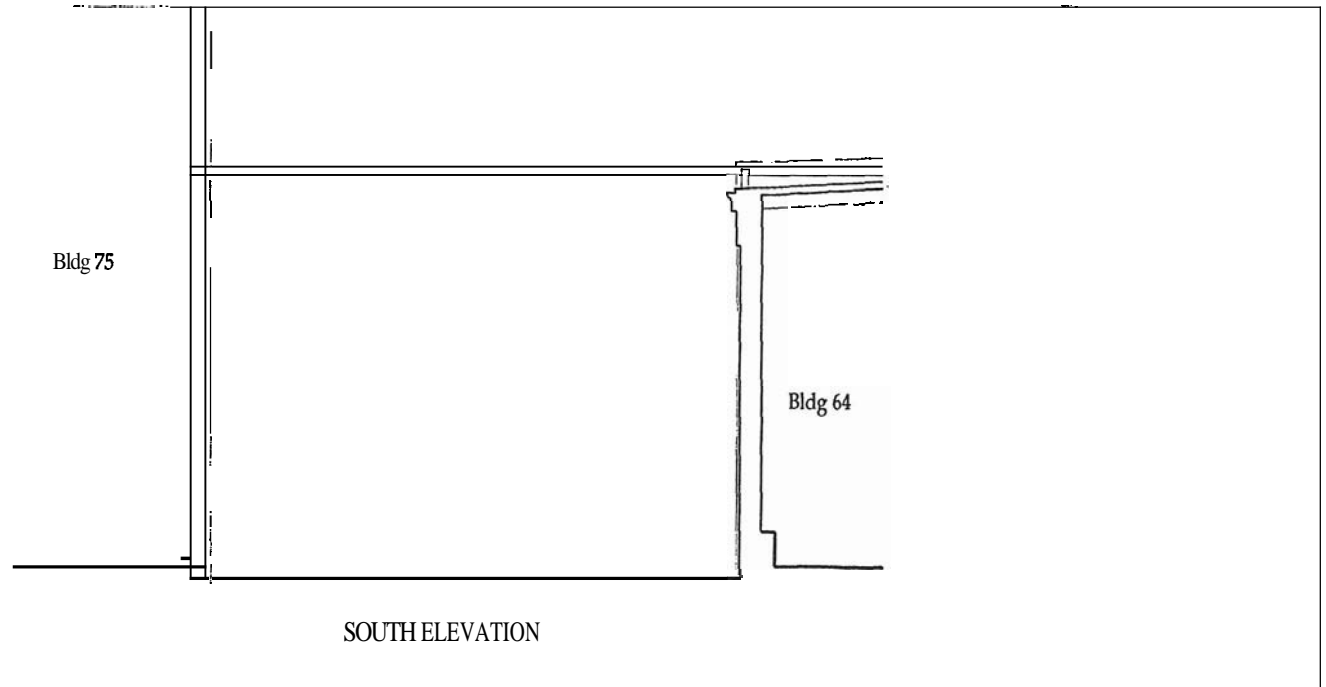
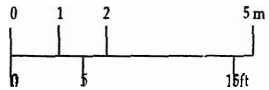
SOUTH ELEVATION



BRIDGE 'V'

FROM BLDG. 75 TO BLDG. 64

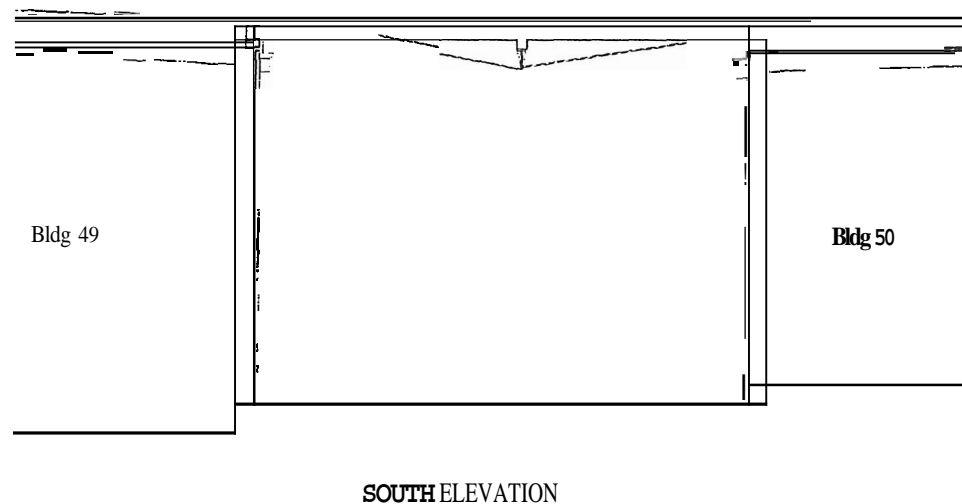
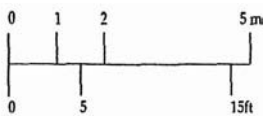
Location: roof to wall
Length: 9.25m ~~with~~ 55m pipe run
Width: 10cm
Depth: 10cm
Clearance: 6.2m
Purpose: alcohol distribution
Materials: self-supporting copper pipe
Photo: H2-20



BRIDGE 'W'

FROM BLDG. 49 TO BLDG. 50

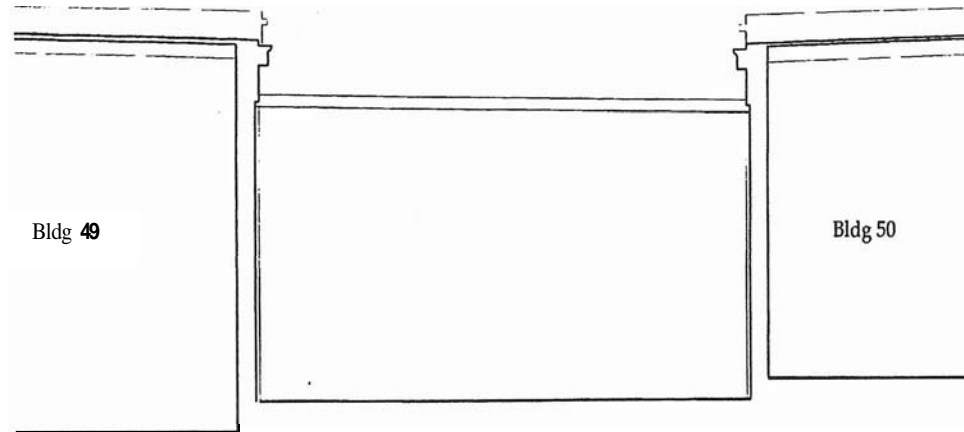
Location: roof to roof
Length: 10.24 span, 98m pipe run
Width: 40cm
Depth: 70cm
Clearance: 6.0m
Purpose: alcohol distribution
Materials: copper pipe with timber beams and steel queen post truss
Photo: H2-17



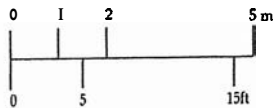
BRIDGE 'X'

FROM BLDG. 49 TO BLDG. 50

Location: wall to wall
 Length: 10.24m span
 Width: 15cm
 Depth: 15cm
 Clearance: 5.4m
Purpose: sprinkler line
 Materials: insulated steel pipe
 Photo: H2-17



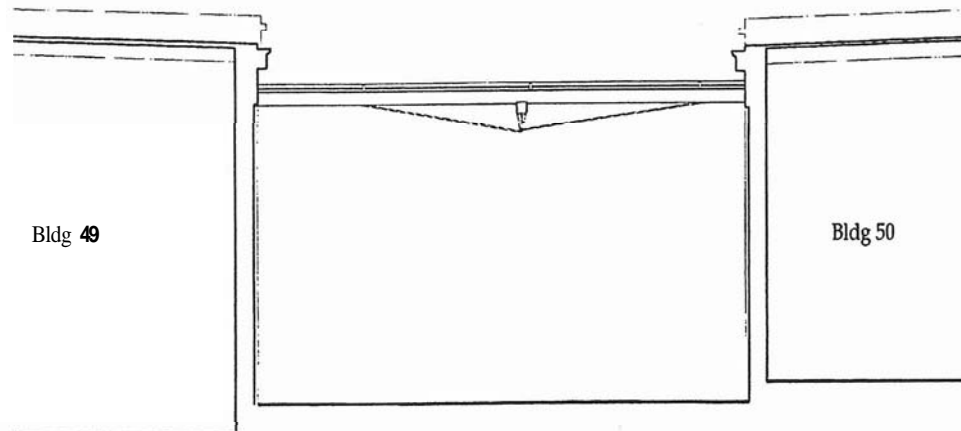
SOUTHELEVATION



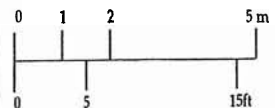
BRIDGE 'Y'

FROM BLDG. 49 TO BLDG. 50

Location: wall to ~~wall~~
 Length: 10.24m
 Width: 40cm
 Depth: 70cm
 Clearance: 3.7m
Purpose: alcohol distribution
 Materials: copper pipe with wood beams and steel queen **post** **truss**
 Photo: H2-17



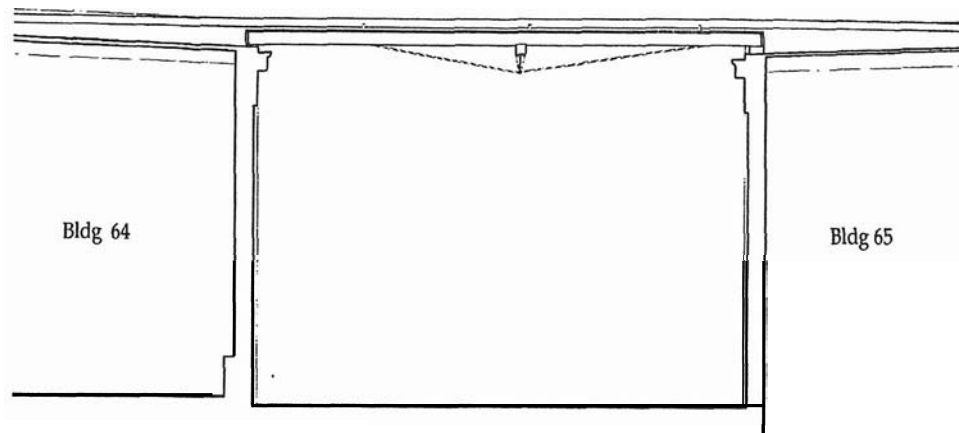
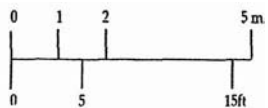
SOUTH ELEVATION



BRIDGE 'Z'

FROM BLDG. 64 TO BLDG. 65

Location: roof to roof
Length: 10.1m span, 55 pipe run
Width: 0.4m
Depth: 70cm
Clearance: 6.0m
Purpose: alcohol distribution
Materials: copper pipe with timber
beam and steel queen post
truss
Photo: H2-18



SOUTH ELEVATION