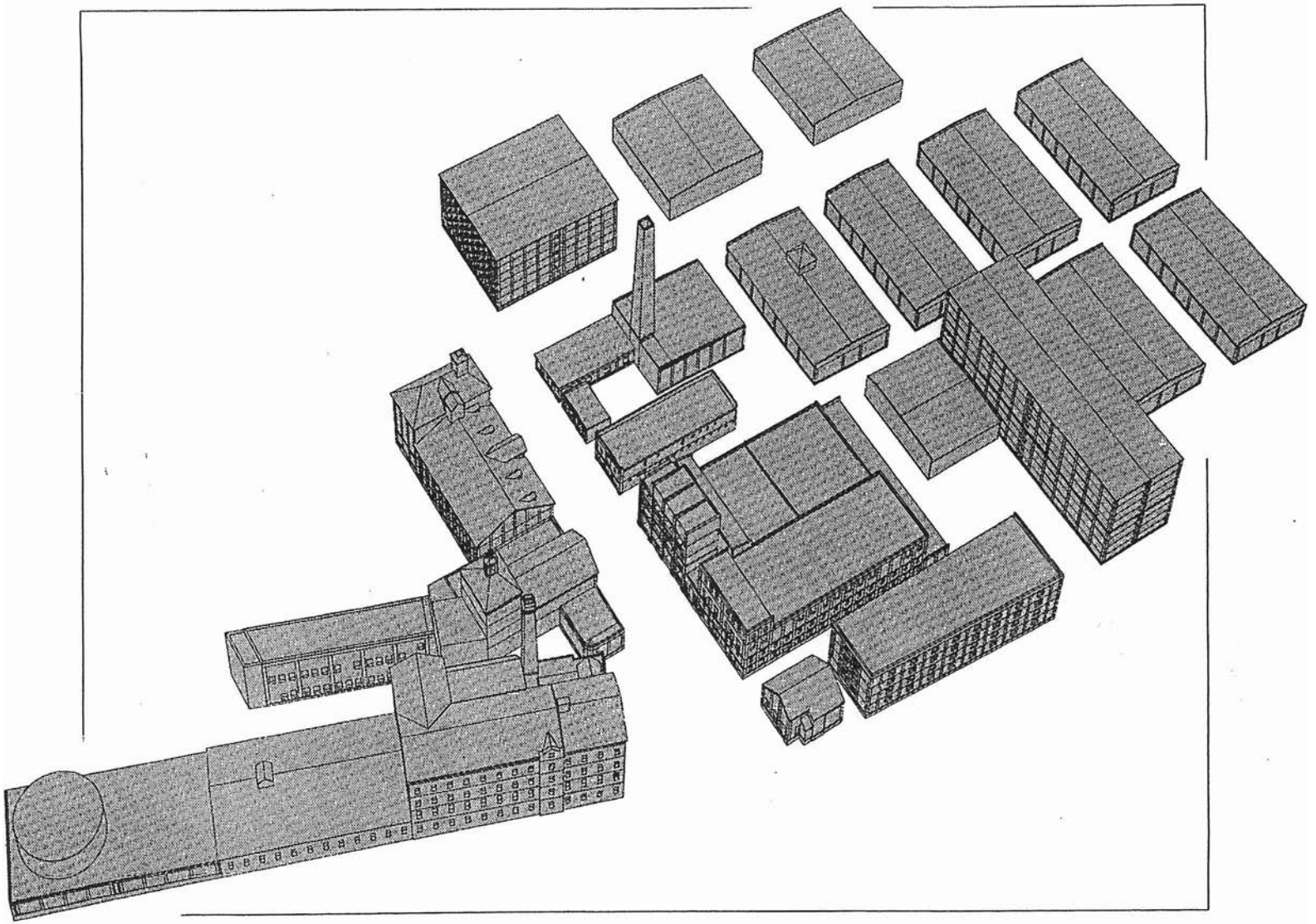
GOODERHAM & WORTS

HERITAGE PLAN



REPORT No. 10 — ARCHITECTURAL DRAWINGS

ROGER DU TOIT ARCHITECTS LIMITED

AUGUST 1994
REVISED NOVEMBER 1994

Gooderham & Worts Heritage Plan

LIST OF REPORTS

This is Report No. 10 of the Gooderham & Worts Heritage Plan which is composed of a series of co-ordinated reports as listed below.

HISTORY/ARCHAEOLOGY

1. Aboriginal and Early European Settlement
   Stephen A. Otto/du Toit Allsopp Hillier, 1994

2. Gooderham & Worts Distillery
   Stephen A. Otto, 1988

3. Oral History
   Historica Research Limited, 1994

ARCHIVAL RECORD

4. Inventory of Archival Sources
   Stephen A. Otto, 1994

INDUSTRIAL ARCHAEOLOGY AND INTERPRETATION

5. Heritage Equipment Registry
   David Nasby & Associates, 1994

6. Industrial Heritage Assessment and Interpretation Programme
   Historica Research Limited/David Nasby & Associates, 1994

LANDSCAPE

7. Landscape History, Inventory and Guidelines
   du Toit Allsopp Hillier, 1994

ARCHITECTURE

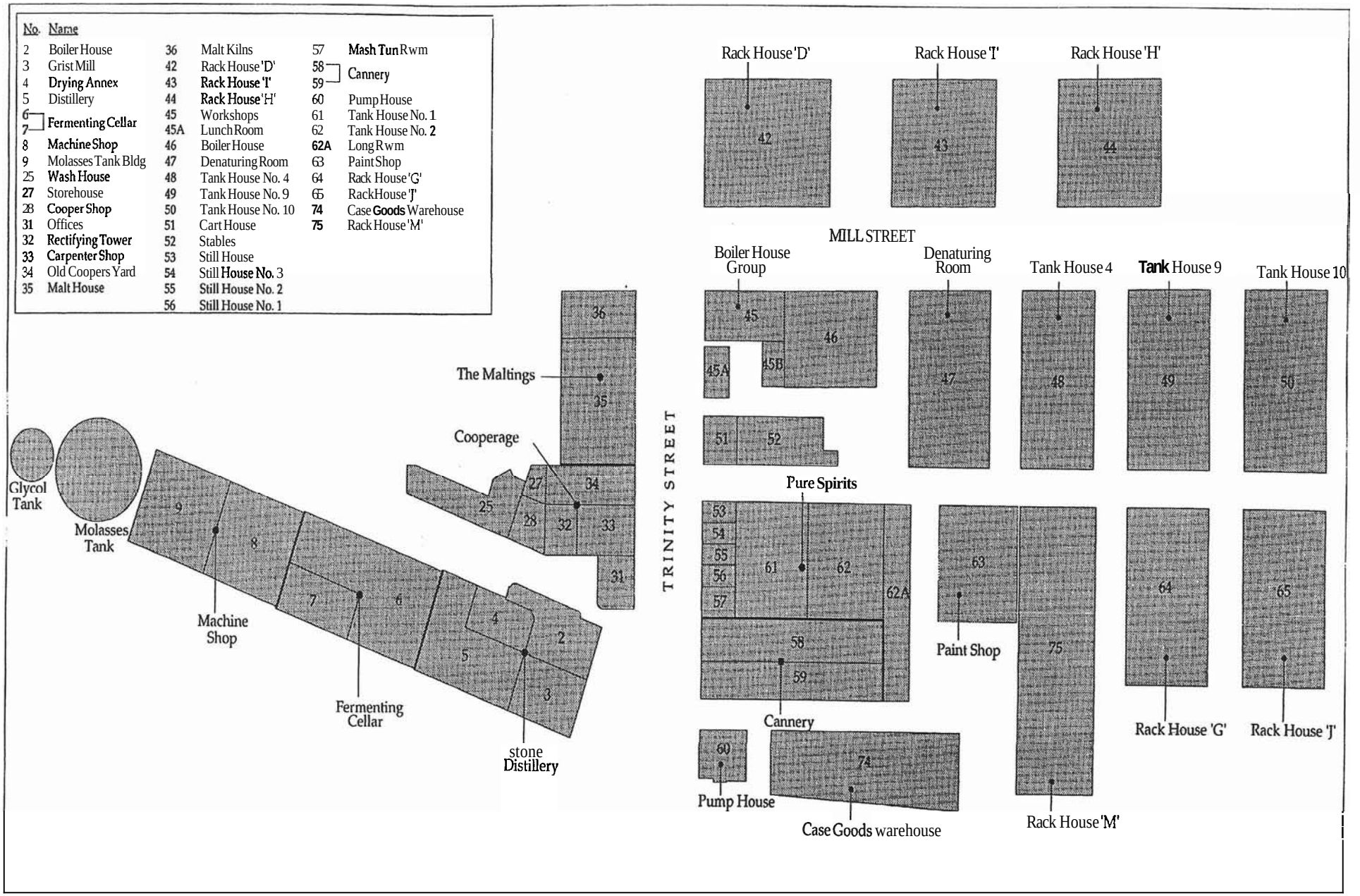
8. Photographic Record
   Spencer R. Higgins, Architect Incorporated, 1994

9. Architectural Description
   Spencer R. Higgins, Architect Incorporated, 1994

10. Architectural Drawings
    Roger du Toit Architects Limited, 1989 - 1994

11. Conservation and Adaptive Reuse Guidelines
    Polymath and Thaumaturge Inc., 1990/Roger du Toit Architects Limited, 1994

12. Schematics for Adaptive Reuse
    Roger du Toit Architects Limited, 1994



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SHOWING BUILDING NUMBERS AND NAMES

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INTRODUCTION

This report is one of a series of co-ordinated reports which make up the Gooderham & Worts Heritage Plan This Report, Number 10 in the series, is intended to serve as a comprehensive reference guide to the Gooderham & Worts Distillery heritage buildings in their existing condition. The following architectural drawing inventory information is included for each building or building group:

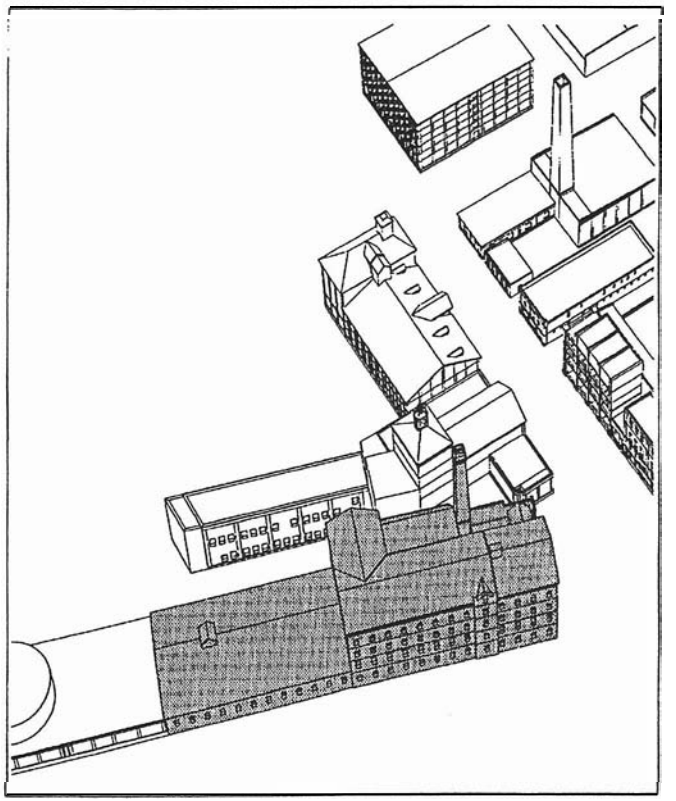
- floor plans for each floor showing existing wall structure configuration, door and window openings, changes in floor level and vertical circulation systems as well as significant building features and process-related items of equipment (reduced from original scales at 1:200 or 1:250, refer to bar scale for each drawing);

  cross sections showing existing floor, roof and wall structure configuration, (including construction notes) and relevant vertical dimensions (reduced from original scales at 1:200 or 1:250, refer to bar scale for each drawing); and

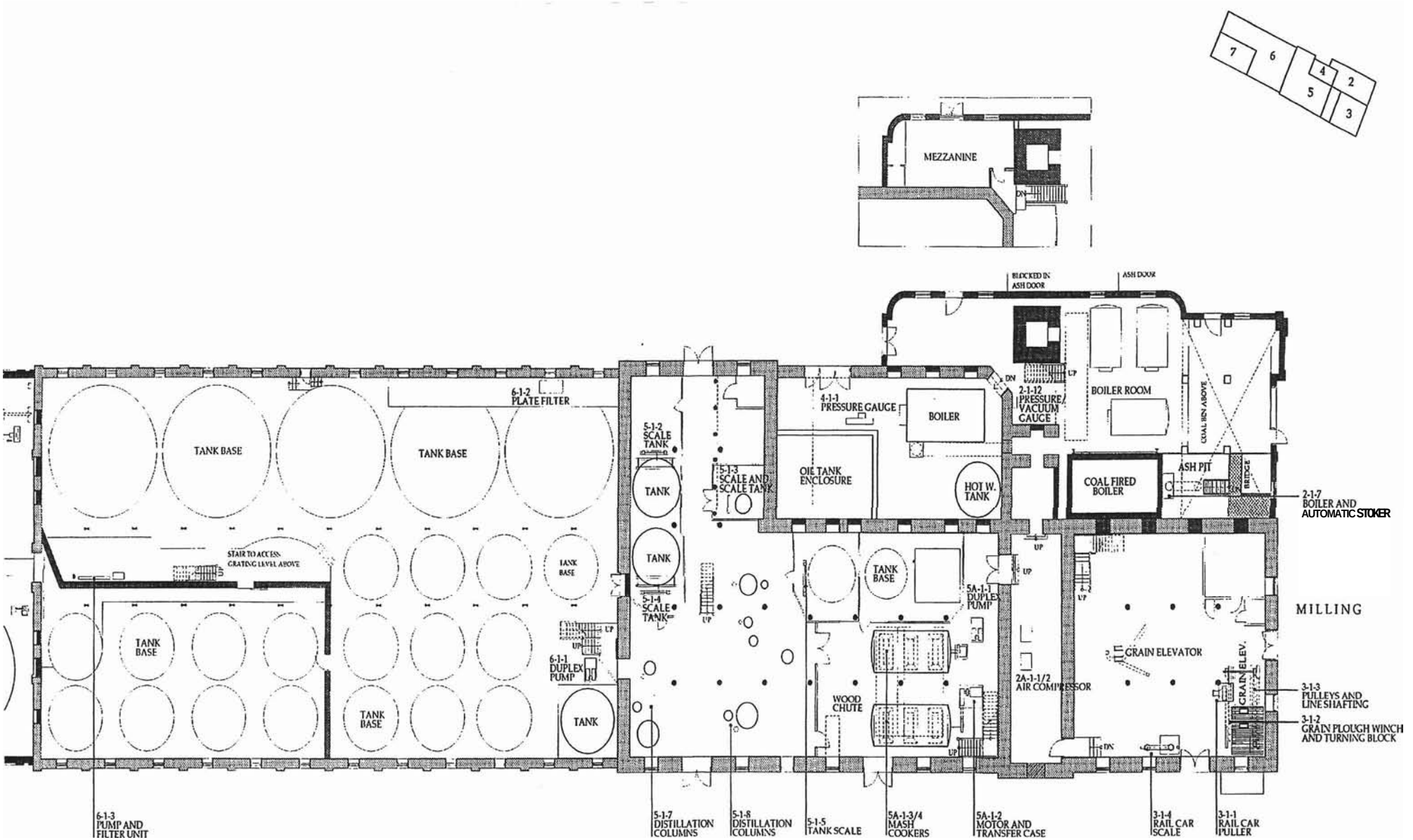
- elevations of each building facade showing all door and window openings and major architectural features (reduced from original scales at 1:200 or 1:250, refer to bar scale for each drawing).

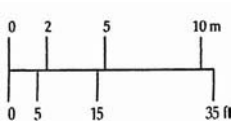
The above information has been gathered from a number of sources including archival drawings held by Gooderham & Worts, photographs and site measurements. Whenever possible information shown has been verified by on-site measurement. They are suitable for understanding the placement of architectural elements and major items of equipment at a level of detail suitable for a Heritage Plan Further checking and additional information should be added before use as construction aids.

This report may be read in conjunction with Report No. 8, Photographic *Record*, Report No. 9, *Architectural Description* and Report No. 12, *Schematics for Adaptive Re-Use*, for which it forms the reference base.



1. STONE DISTILLERY
BUILDING GROUP

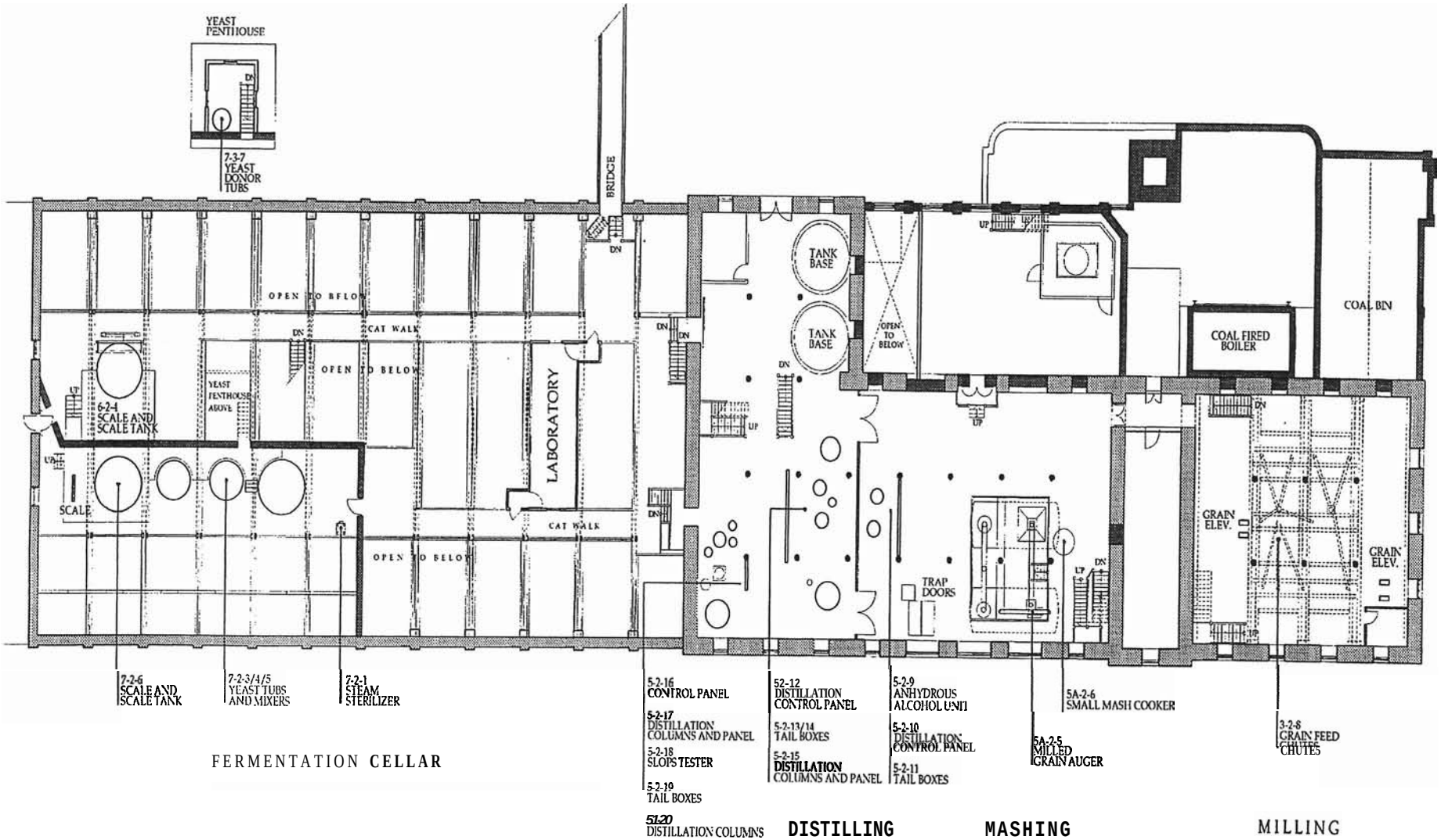


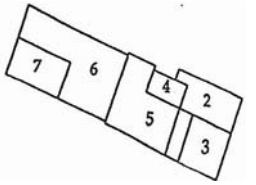


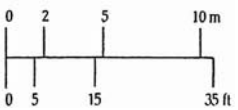
STONE DISTILLERY

GROUND FLOOR PLAN

EXISTING



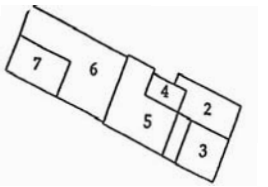


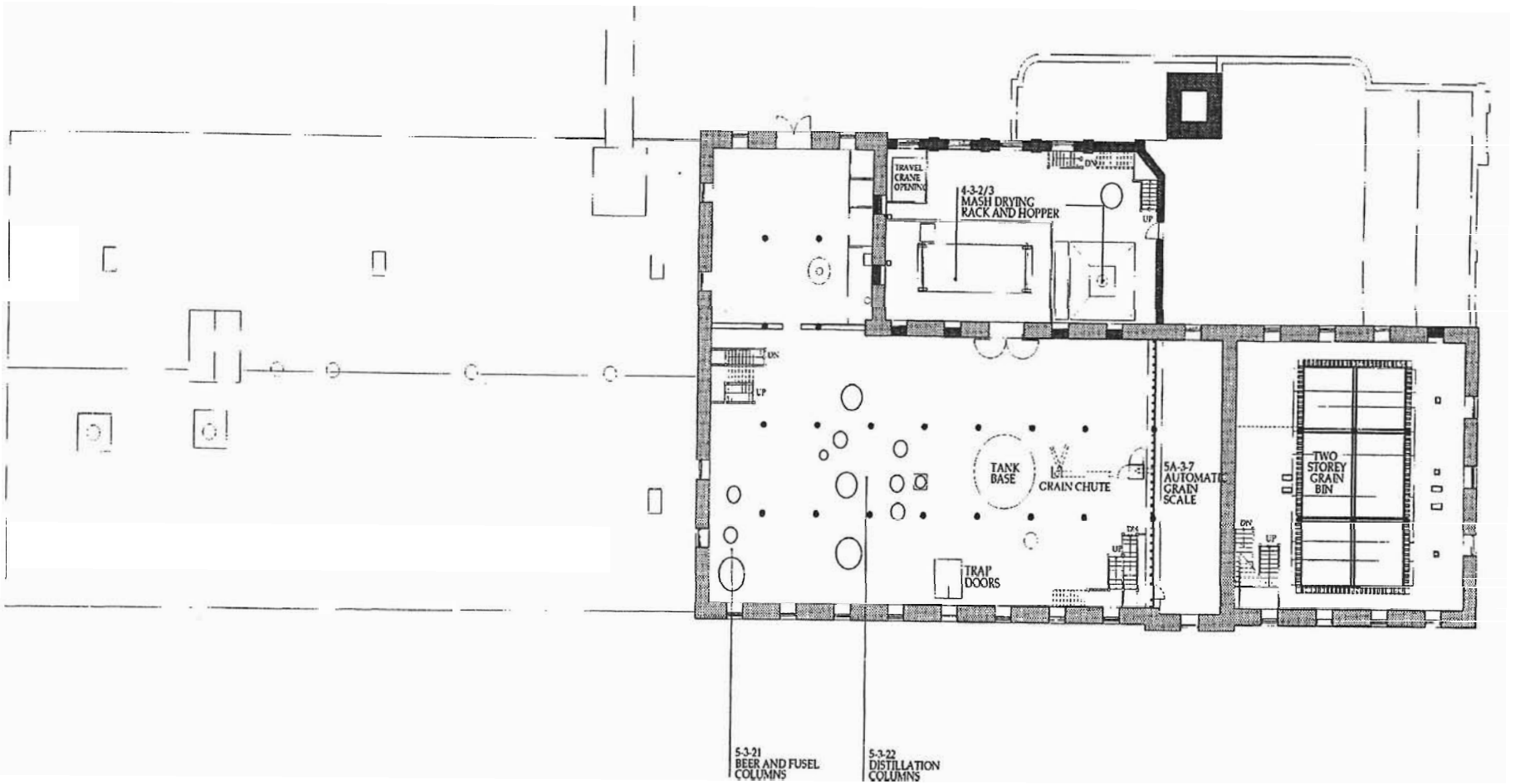


STONE DISTILLERY

2ND FLOOR PLAN

EXISTING





STONE DISTILLERY

3RD FLOOR PLAN

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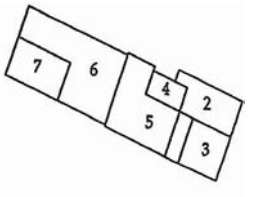

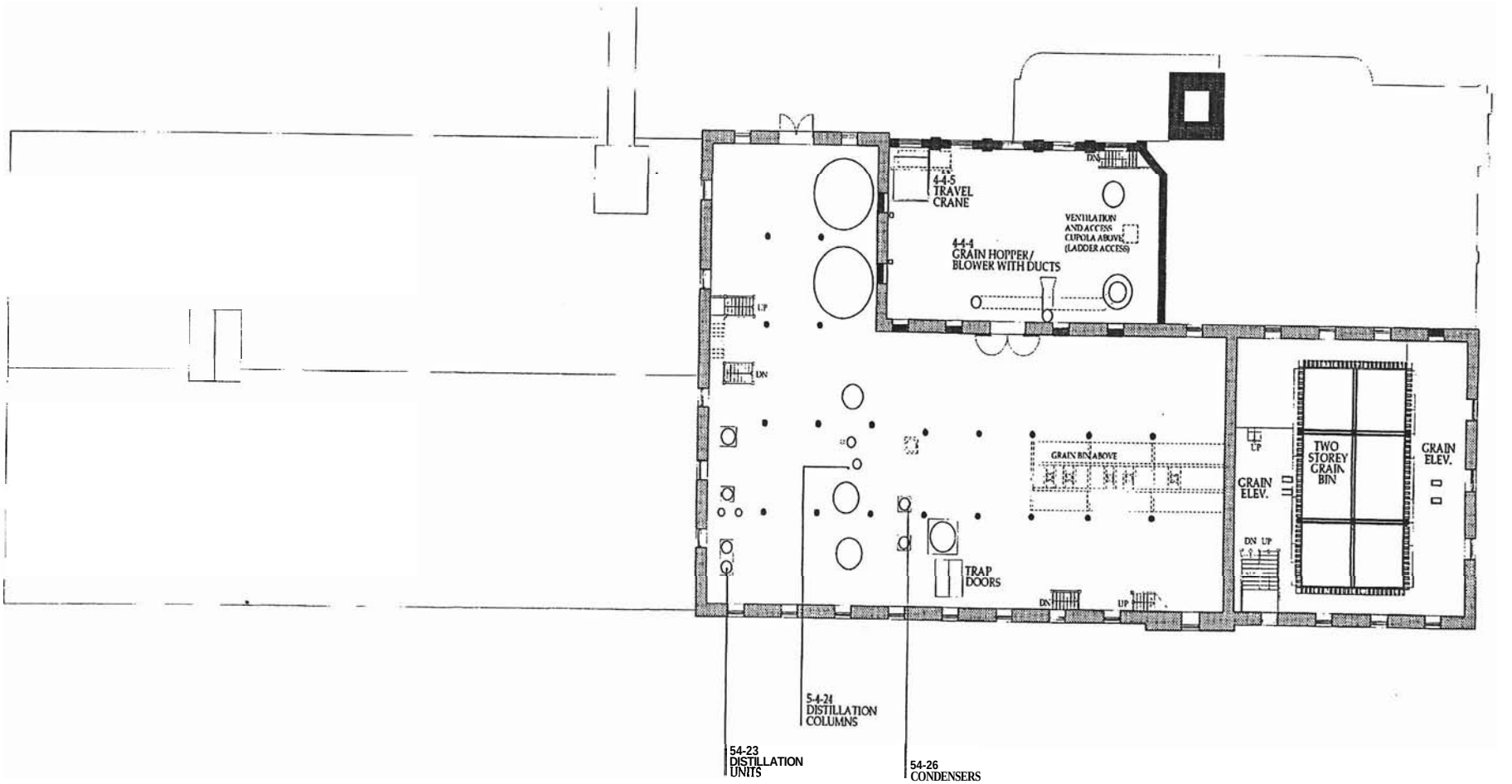

STONE DISTILLERY

4TH FLOOR PLAN

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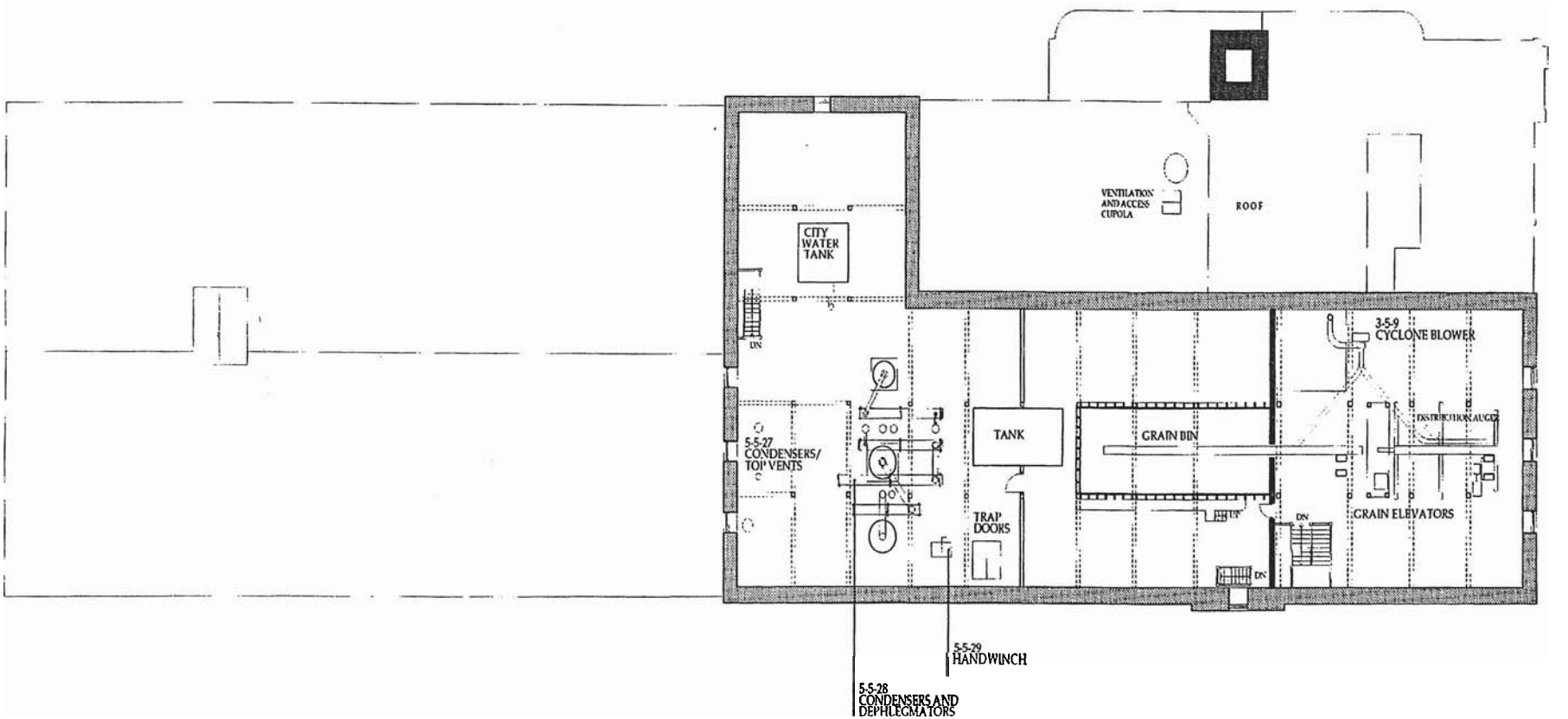

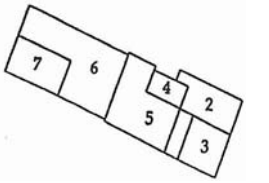

STONE DISTILLERY

5TH FLOOR PLAN

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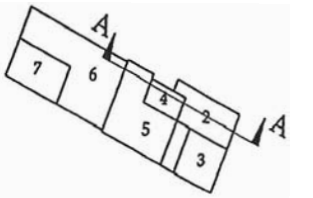

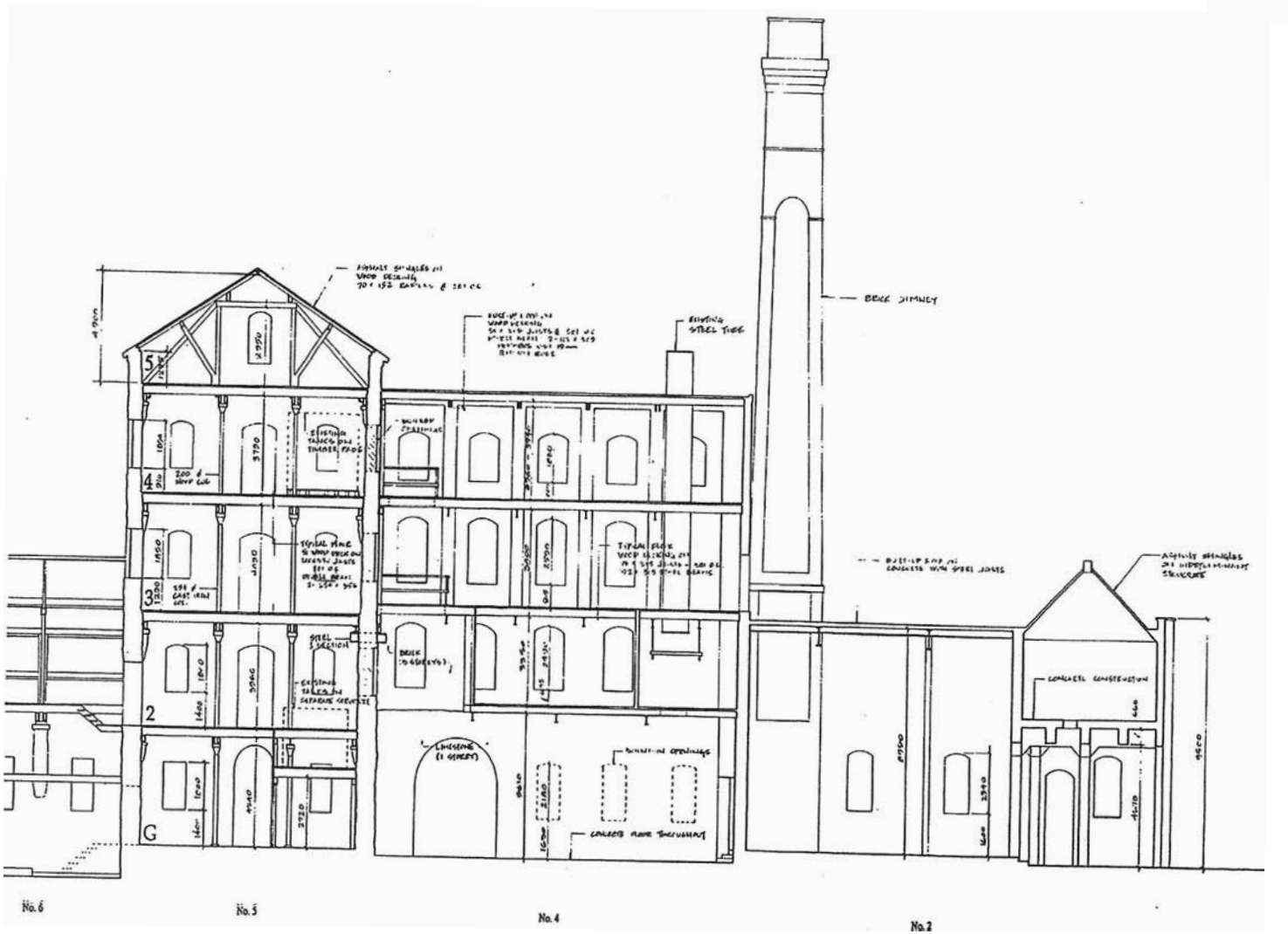

STONE DISTILLERY

SECTION **A-A**

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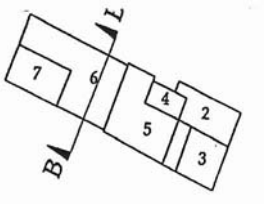
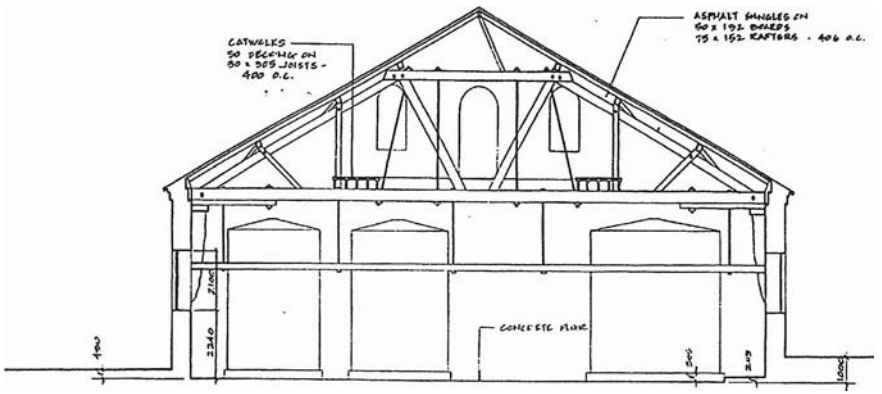
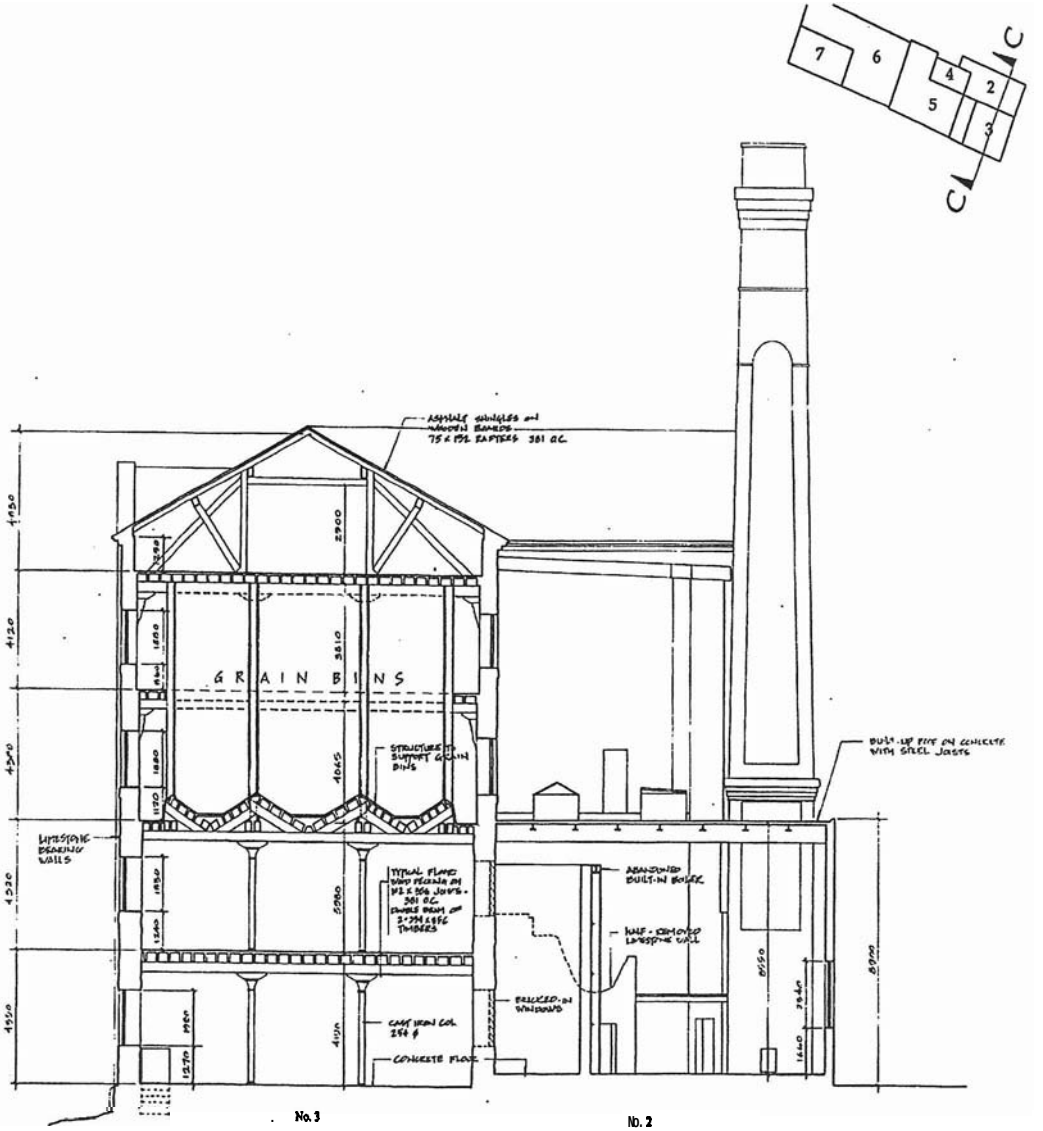




No.6

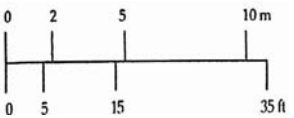
SECTION B-B



No. 3

No. 2

SECTION C-C



STONE DISTILLERY

SECTIONS B-B, C-C

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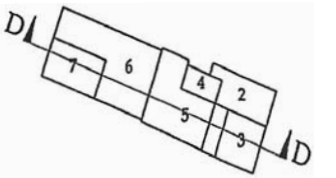
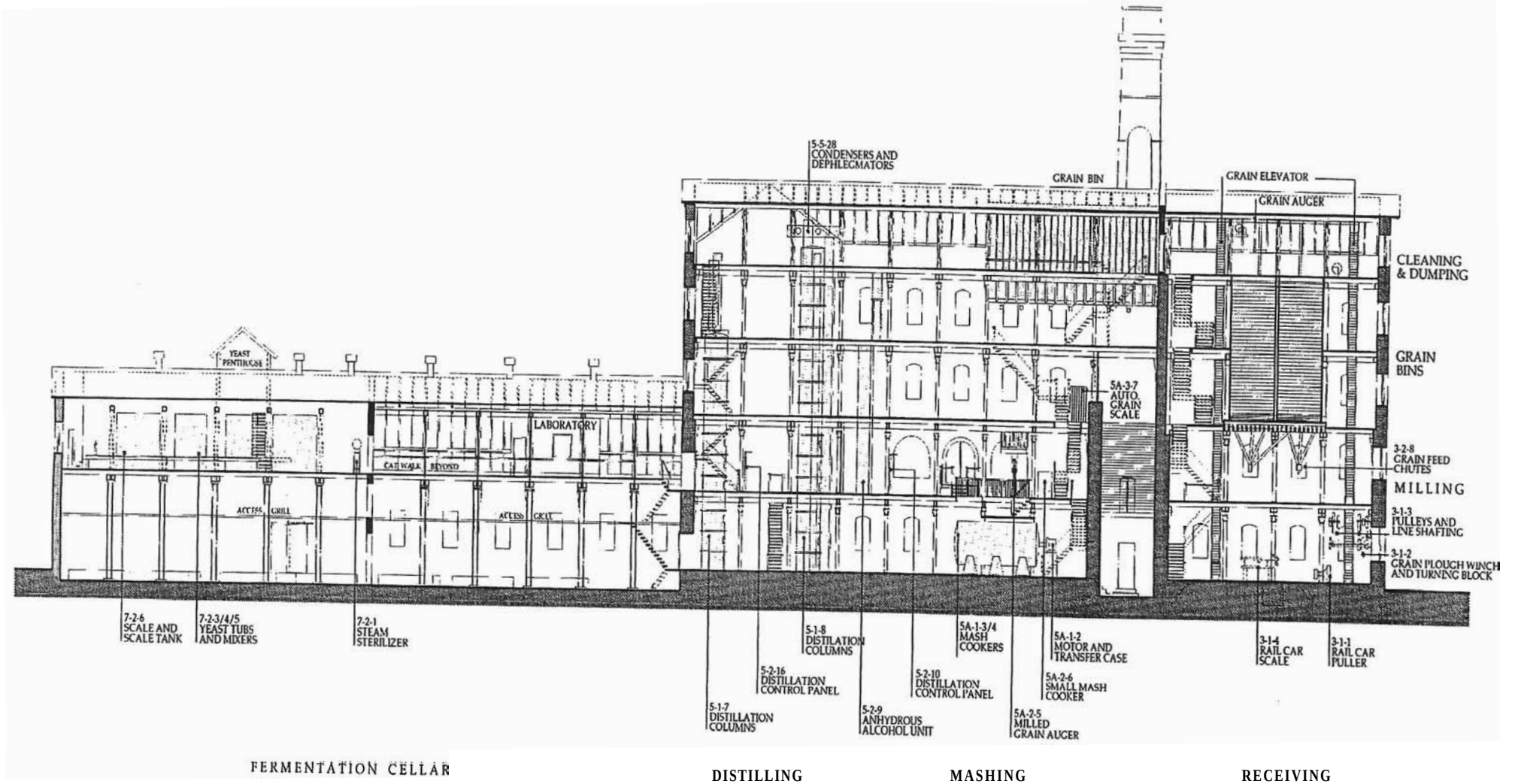
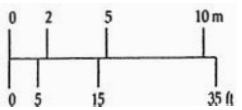
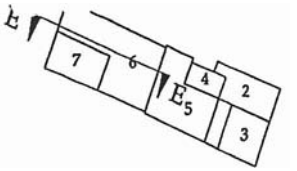
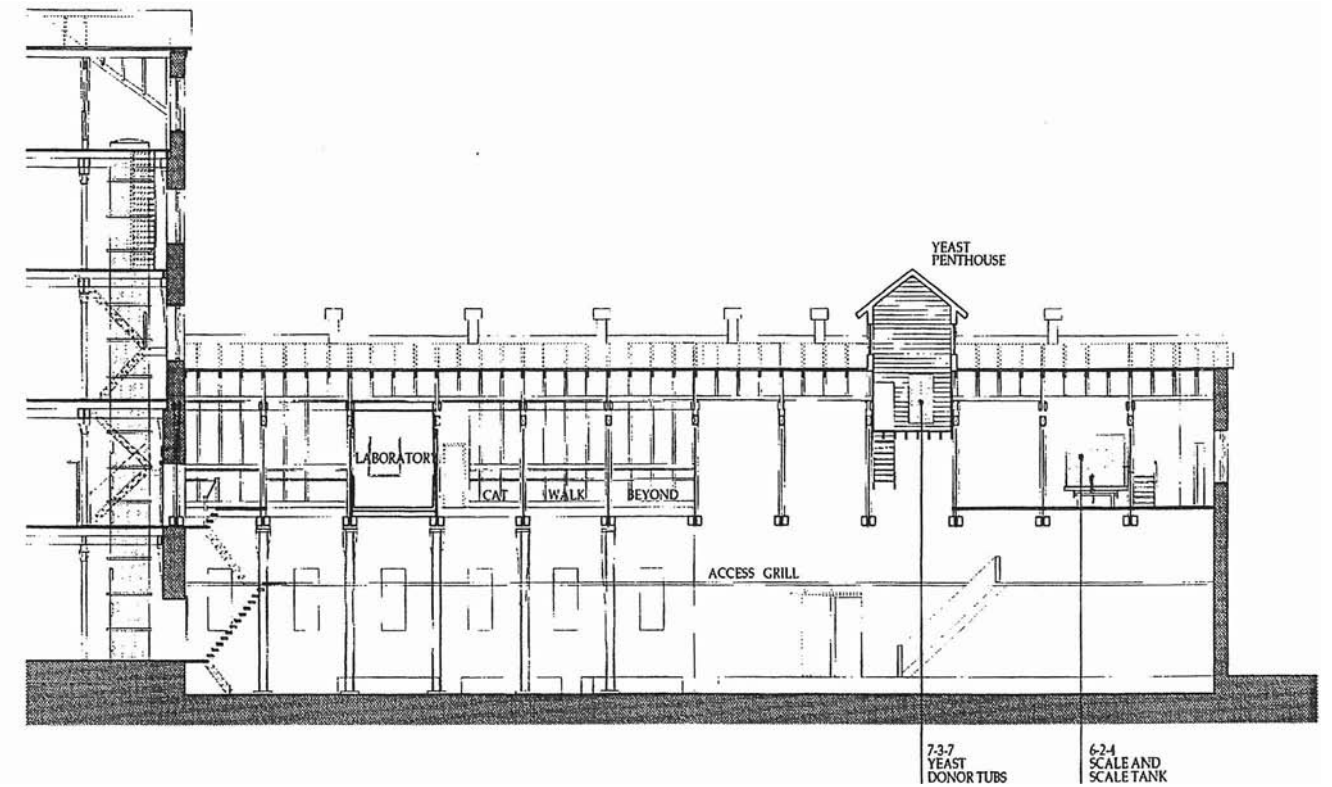


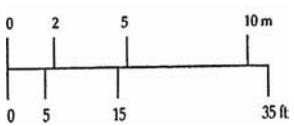




STONE DISTILLERY
SECTION **D-D**
EXISTING







STONE DISTILLERY

SECTION E-E

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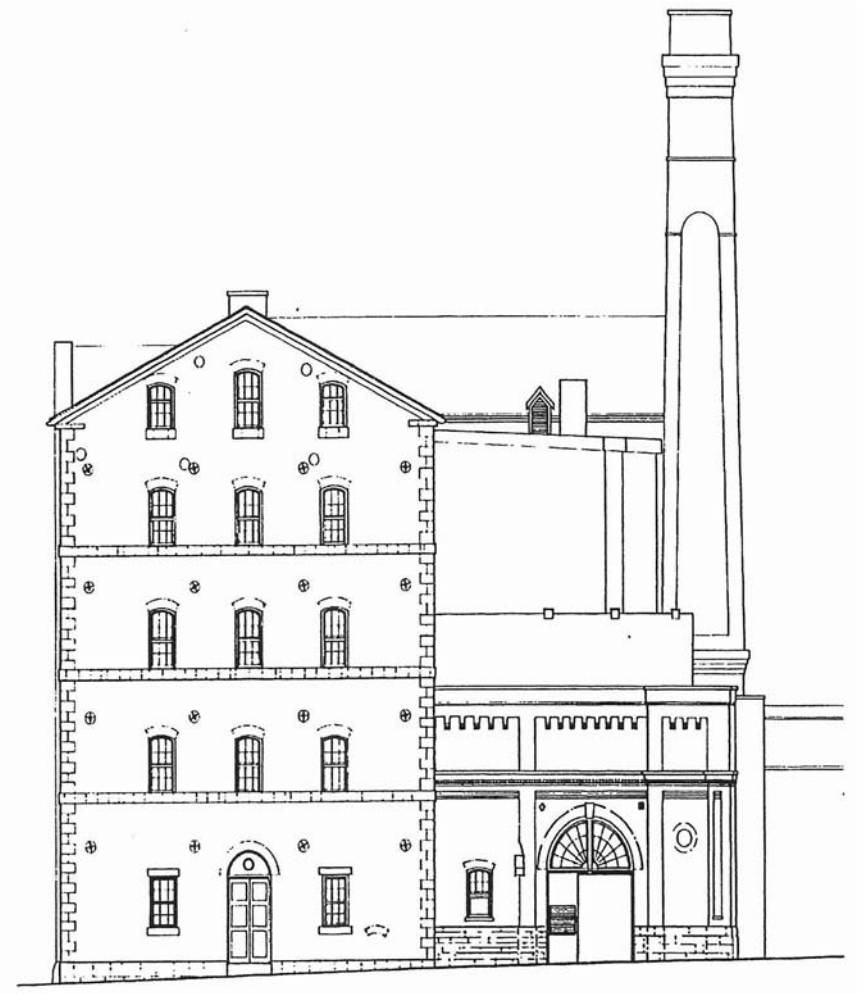
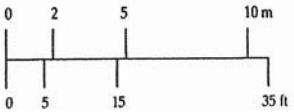




STONE DISTILLERY

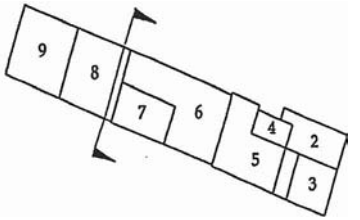
EAST ELEVATION

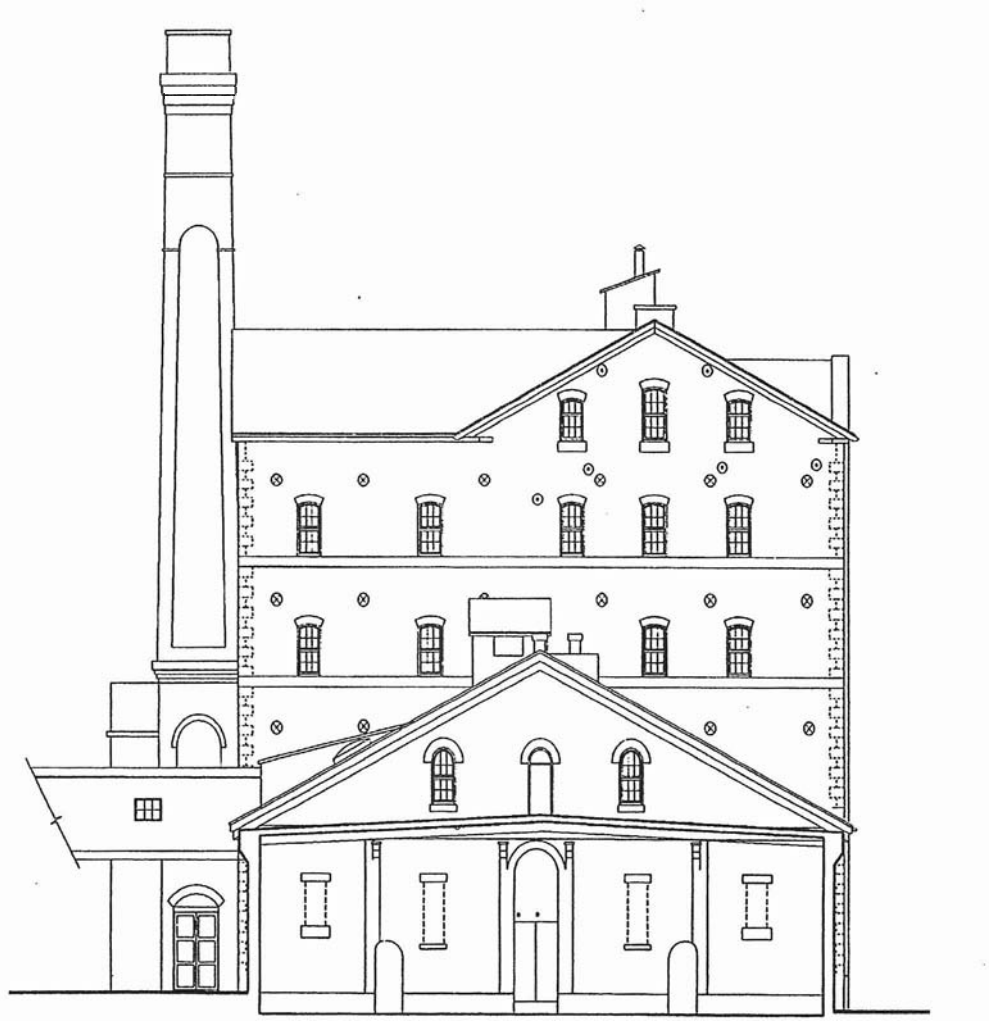
EXISTING

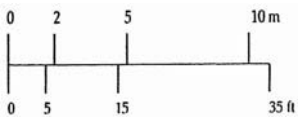
STONE DISTILLERY

NORTH ELEVATION

EXISTING







STONE DISTILLERY

WEST ELEVATION

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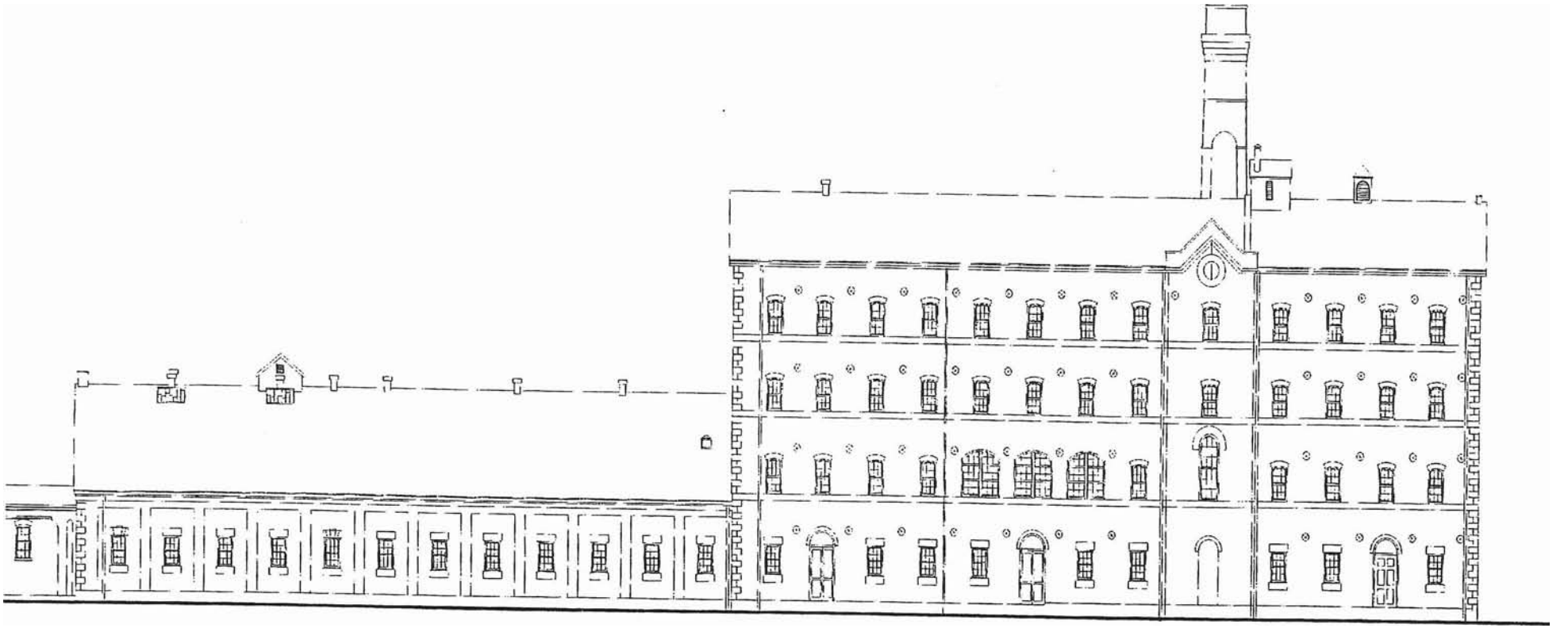

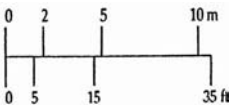

STONE DISTILLERY

SOUTH ELEVATION

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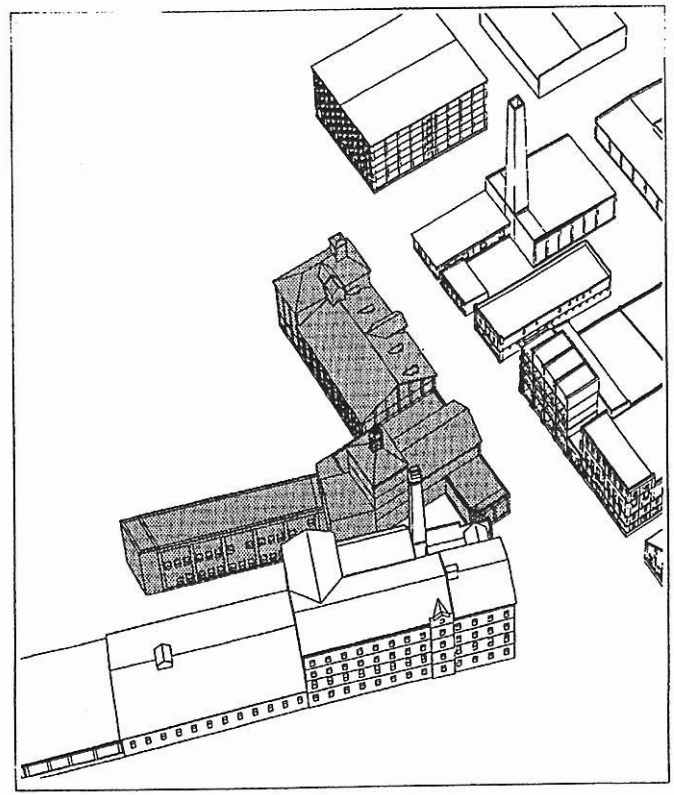
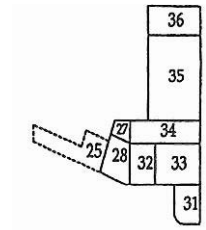
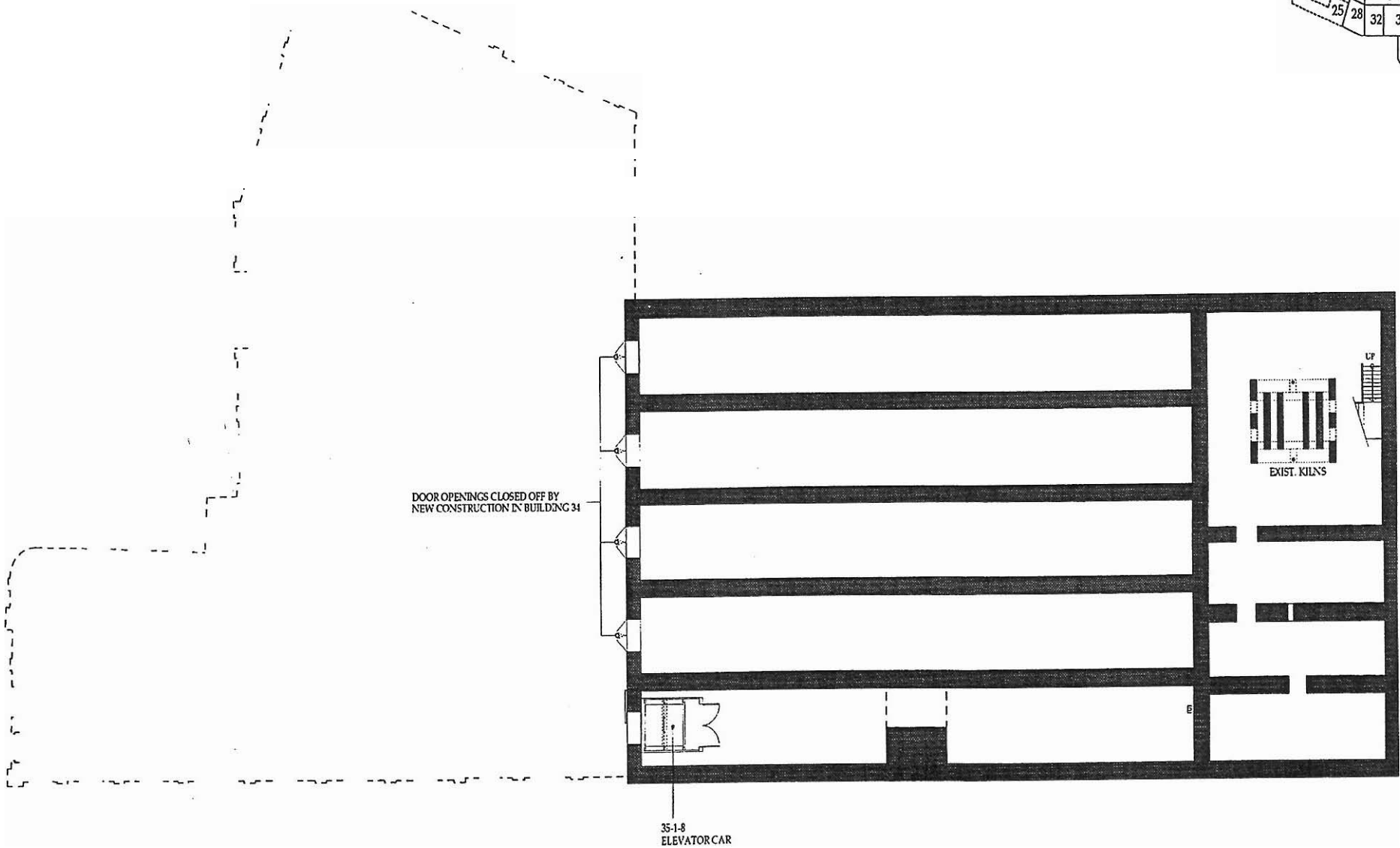
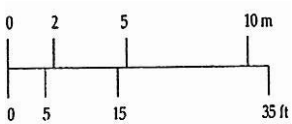


2. THE MALTINGS/COOPERAGE BUILDING GROUP







THE MALTINGS/COOPERAGE

BASEMENT FLOOR PLAN

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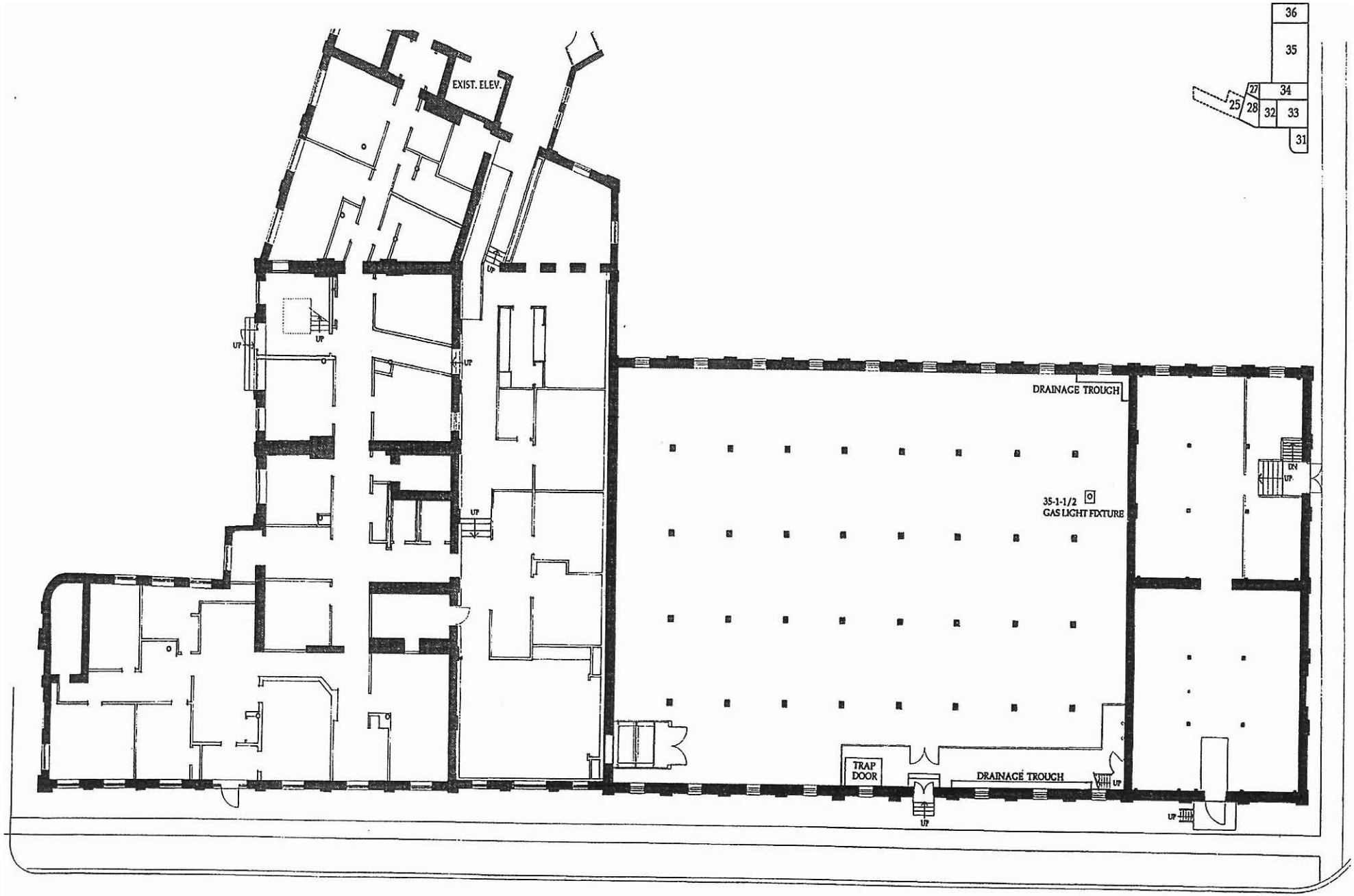

0 2 5 10 m

0 5 15 35 ft

THE MALTINGS/COOPERAGE

GROUND FLOOR PLAN

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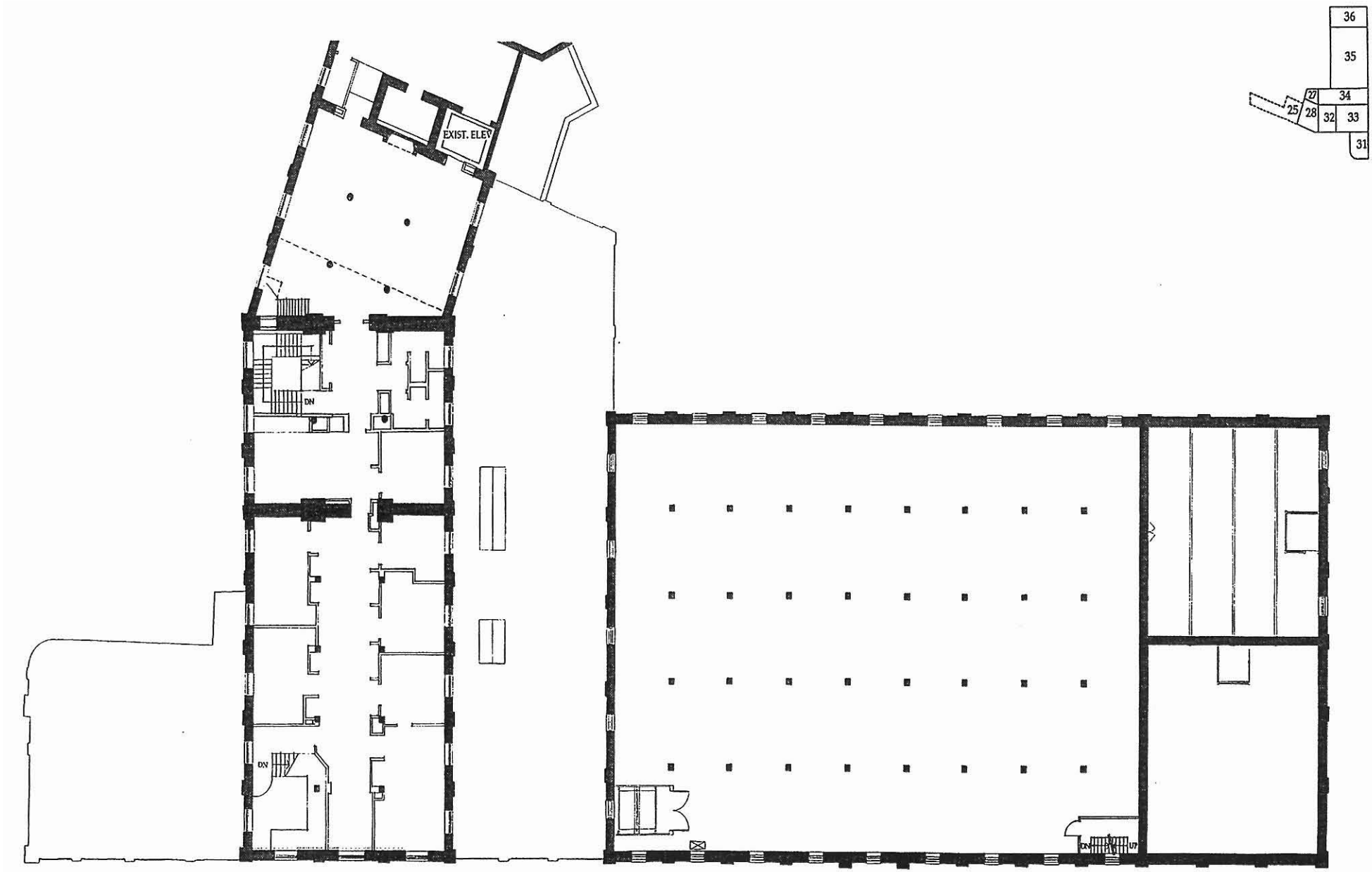
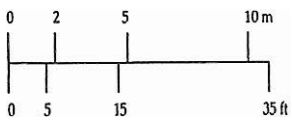
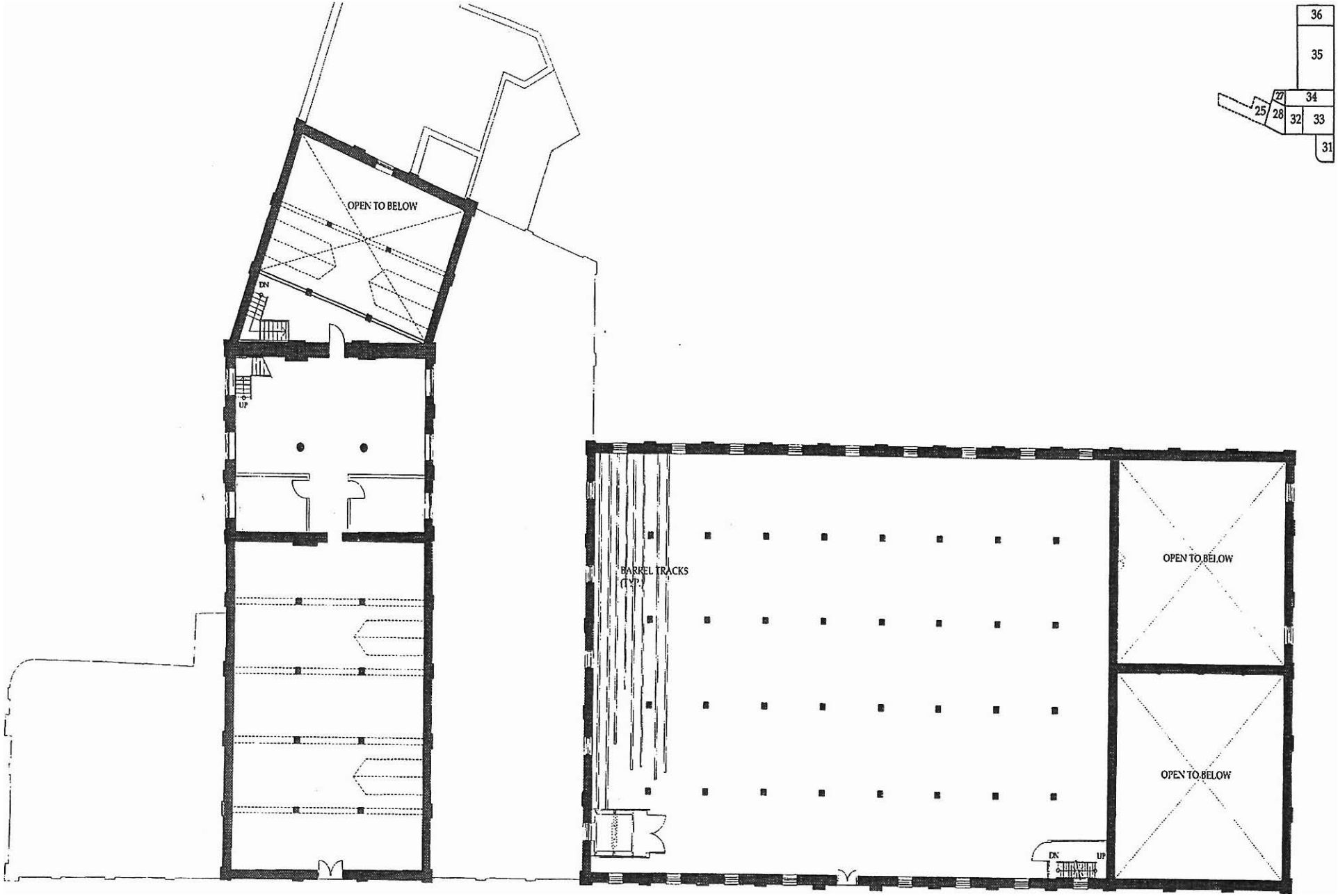


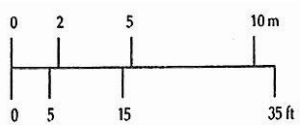


THE MALTINGS/COOPERAGE

2ND FLOOR PLAN

EXISTING

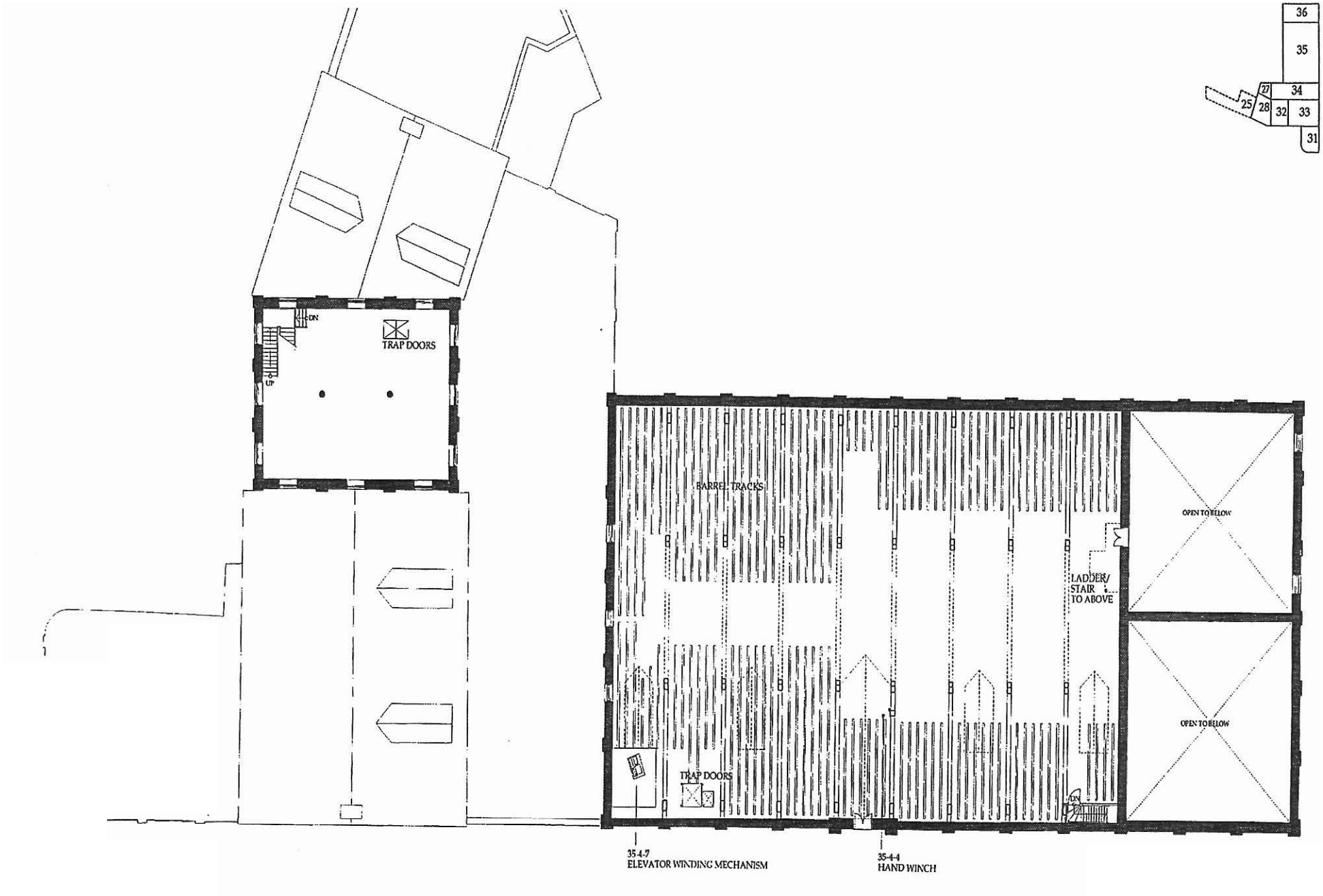




THE MALTINGS/COOPERAGE

3RD FLOOR PLAN

EXISTING



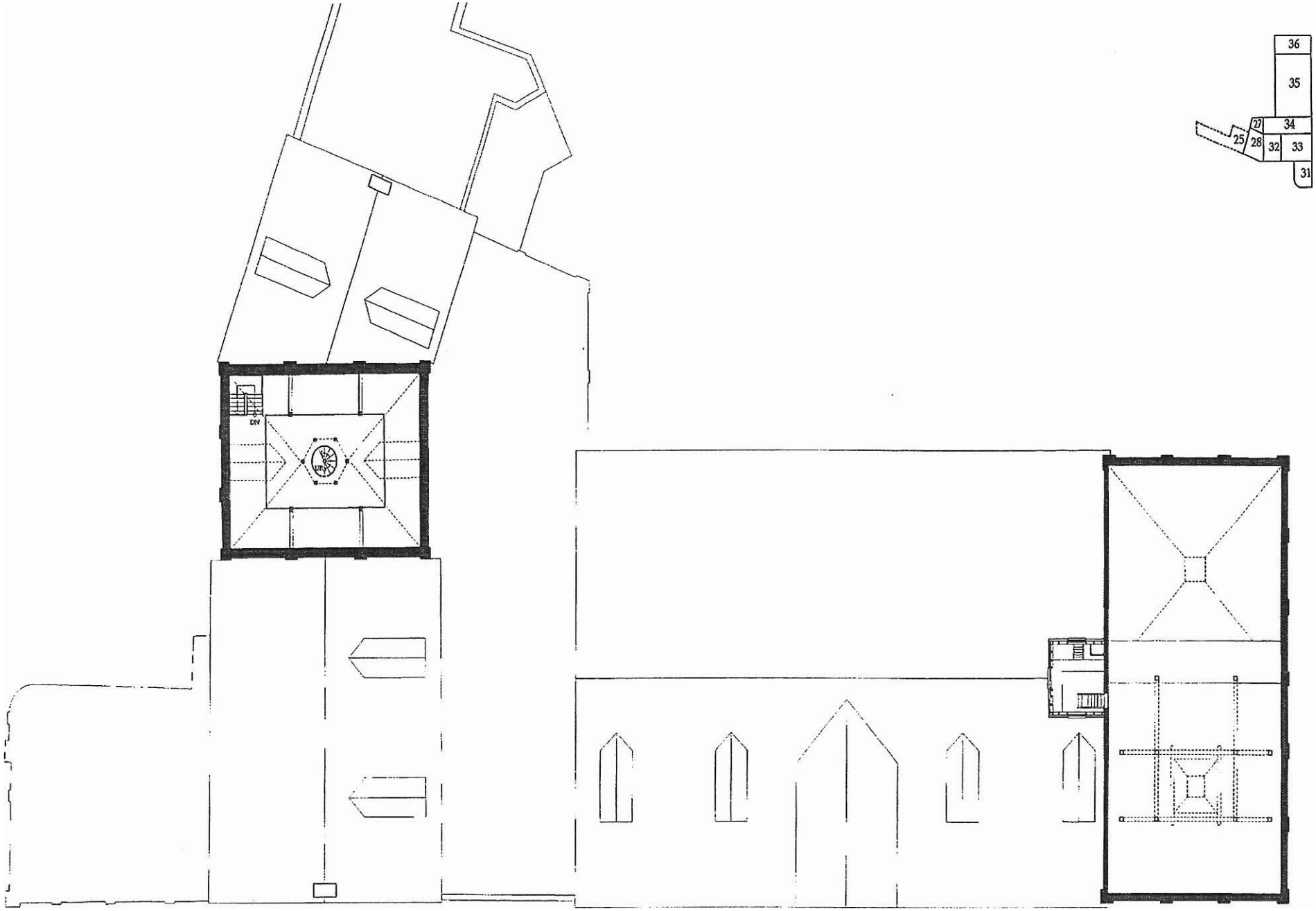
0 2 5 10 m

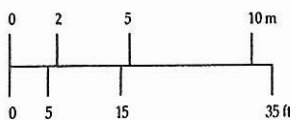
0 5 15 35 ft

THE MALTINGS/COOPERAGE

4TH FLOOR PLAN

EXISTING

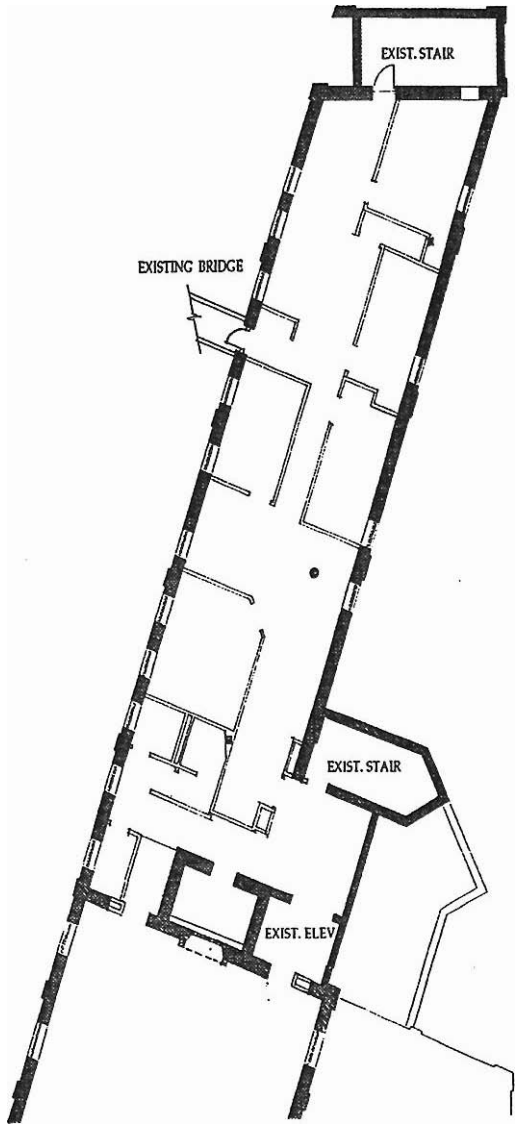




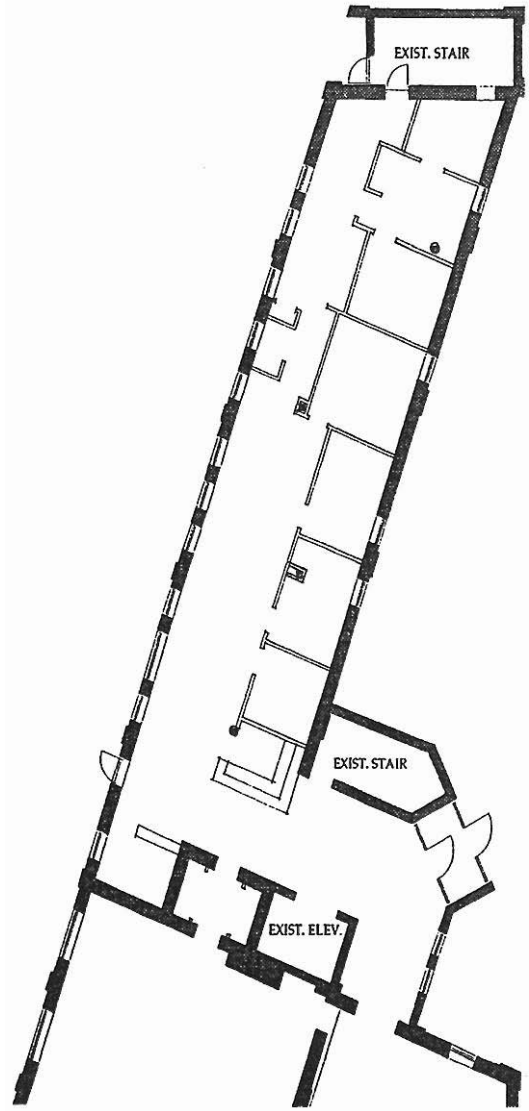
THE MALTINGS/COOPERAGE

5TH FLOOR PLAN

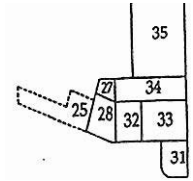
EXISTING

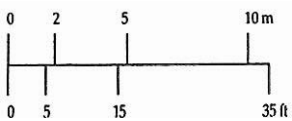


2ND FLOOR PLAN



GROUND FLOOR PLAN

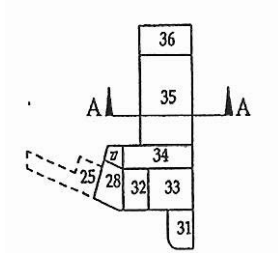


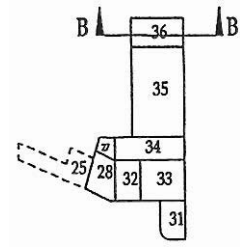


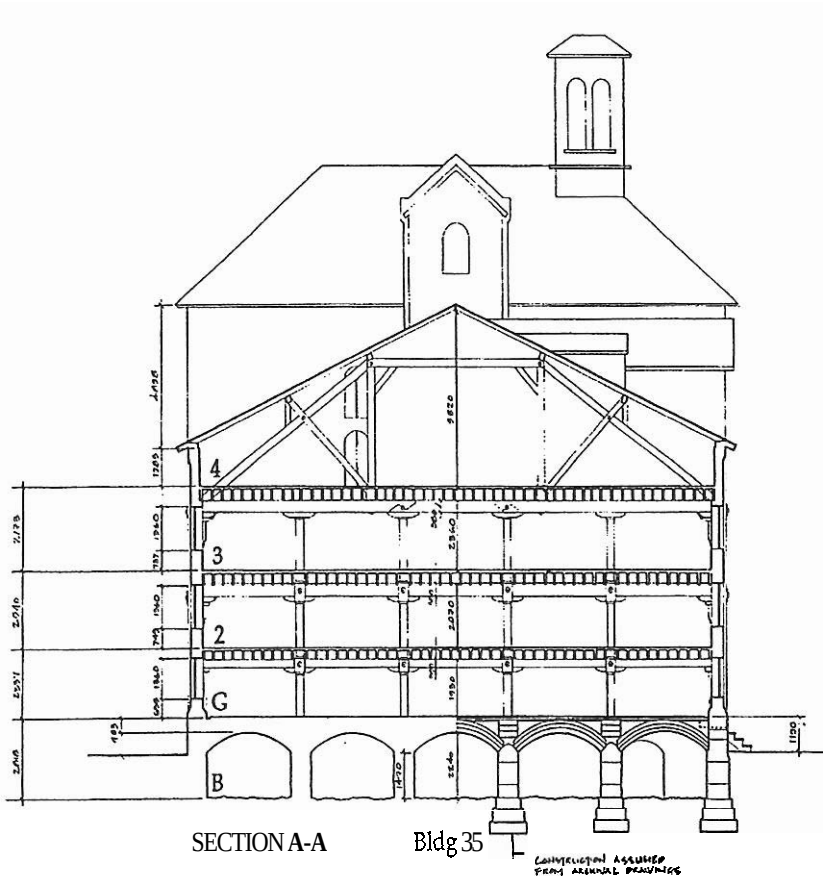
THE MALTINGS/COOPERAGE

BARREL WASH HOUSE FLOOR PLANS

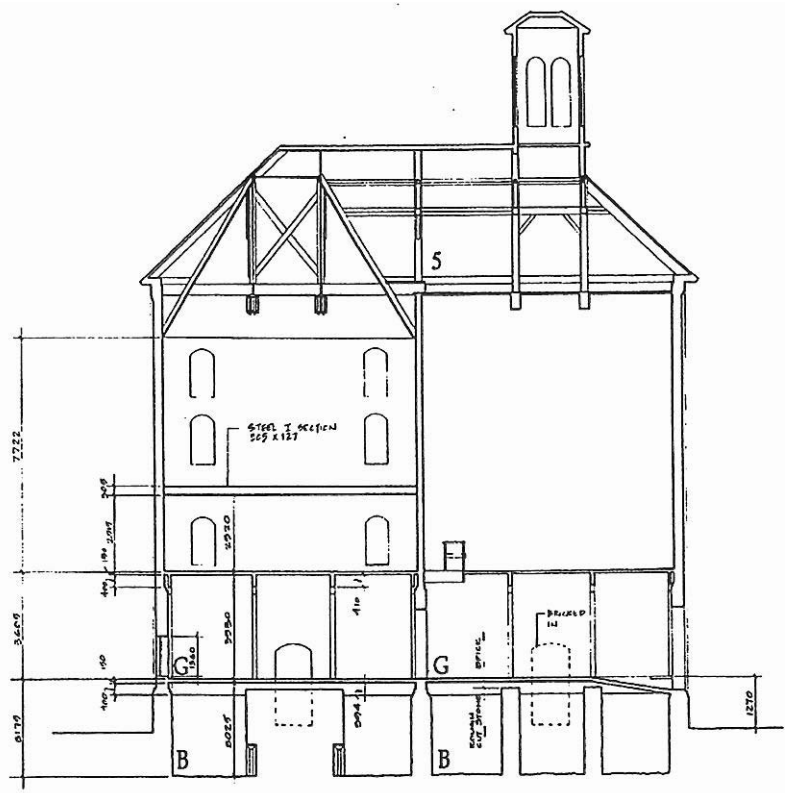
EXISTING



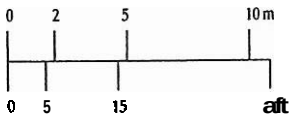




SECTION **A-A** Bldg 35



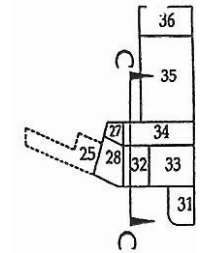
SECTION **B-B** Bldg 36

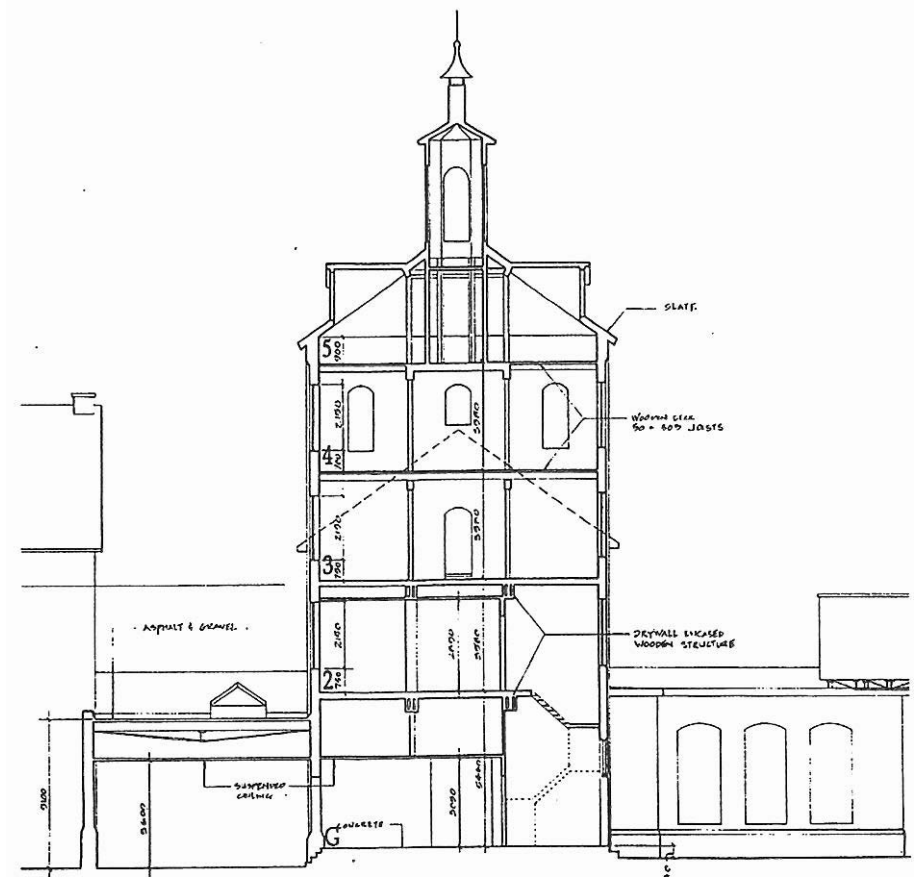


THE MALTINGS/COOPERAGE

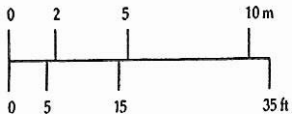
SECTIONS A-A, B-B

EXISTING

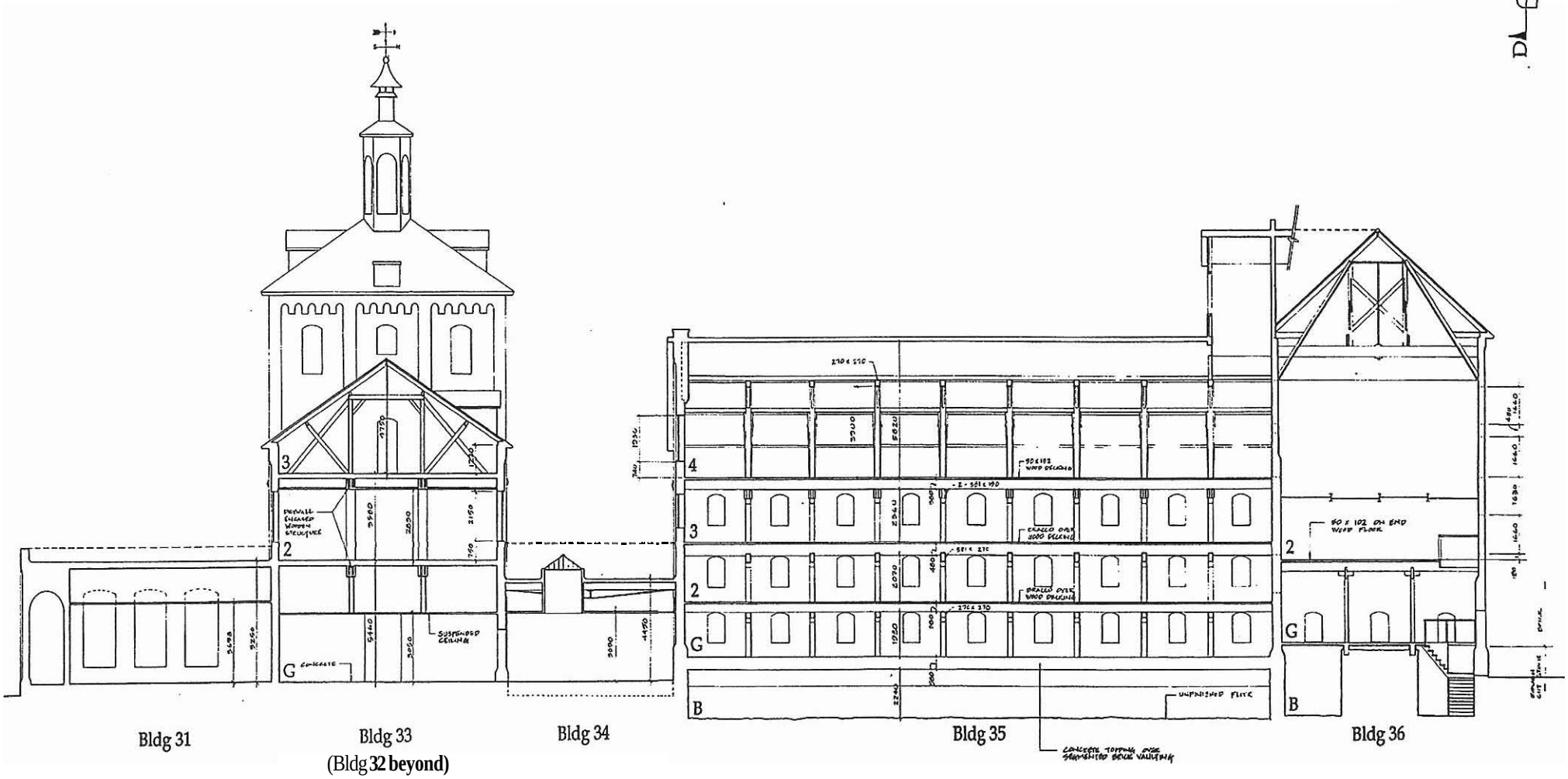


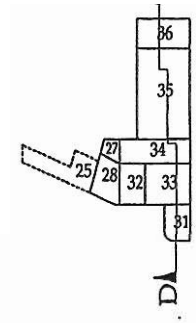


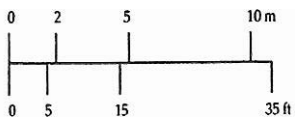
Bldg 34 Bldg 32 (Bldg 31 beyond)



THE MALTINGS/COOPERAGE
SECTION C-C
EXISTING



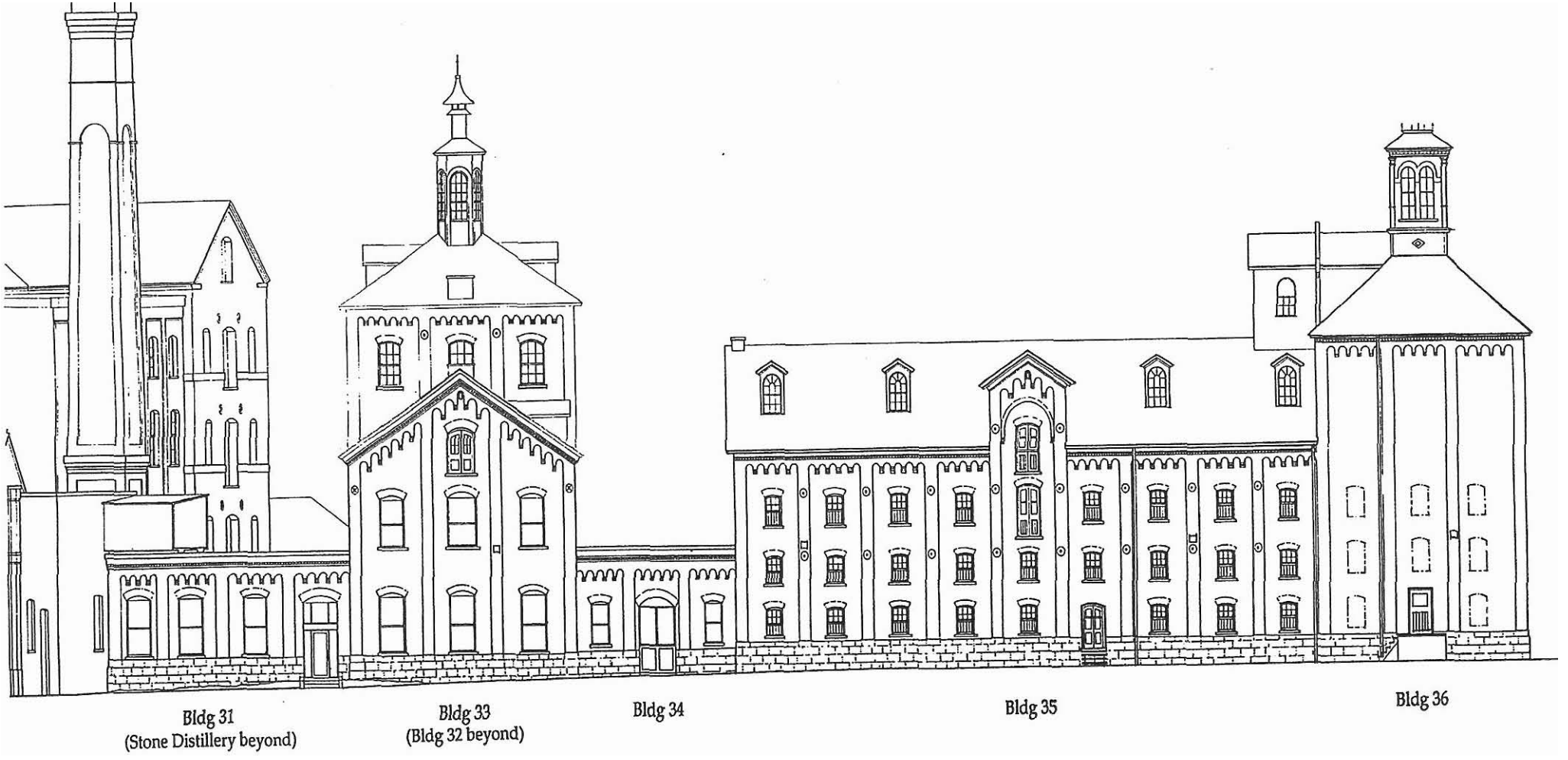


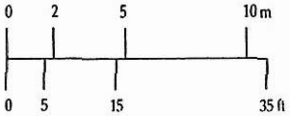


THE MALTINGS/COOPERAGE

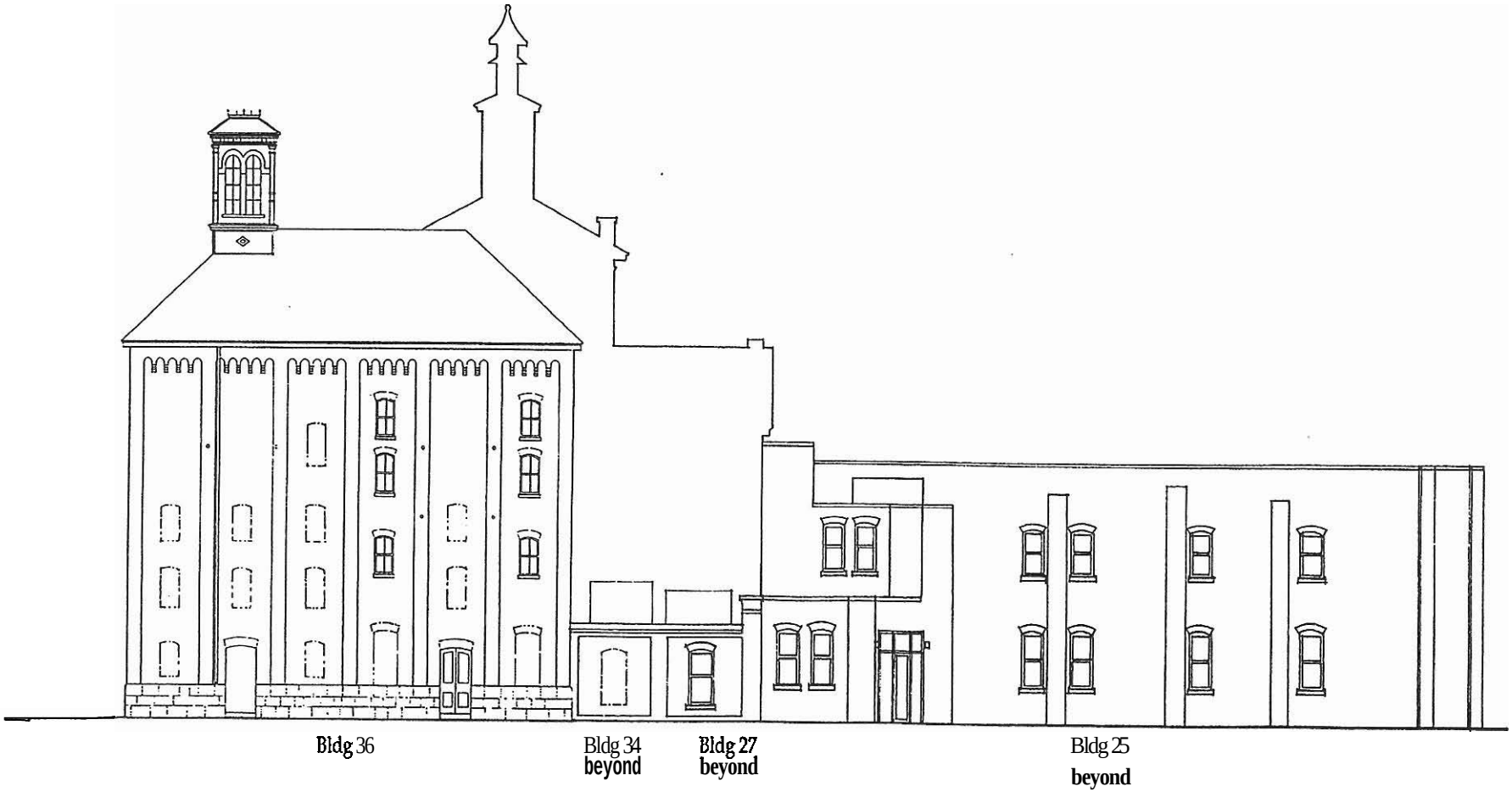
SECTION D-D

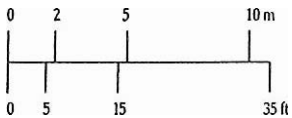
EXISTING



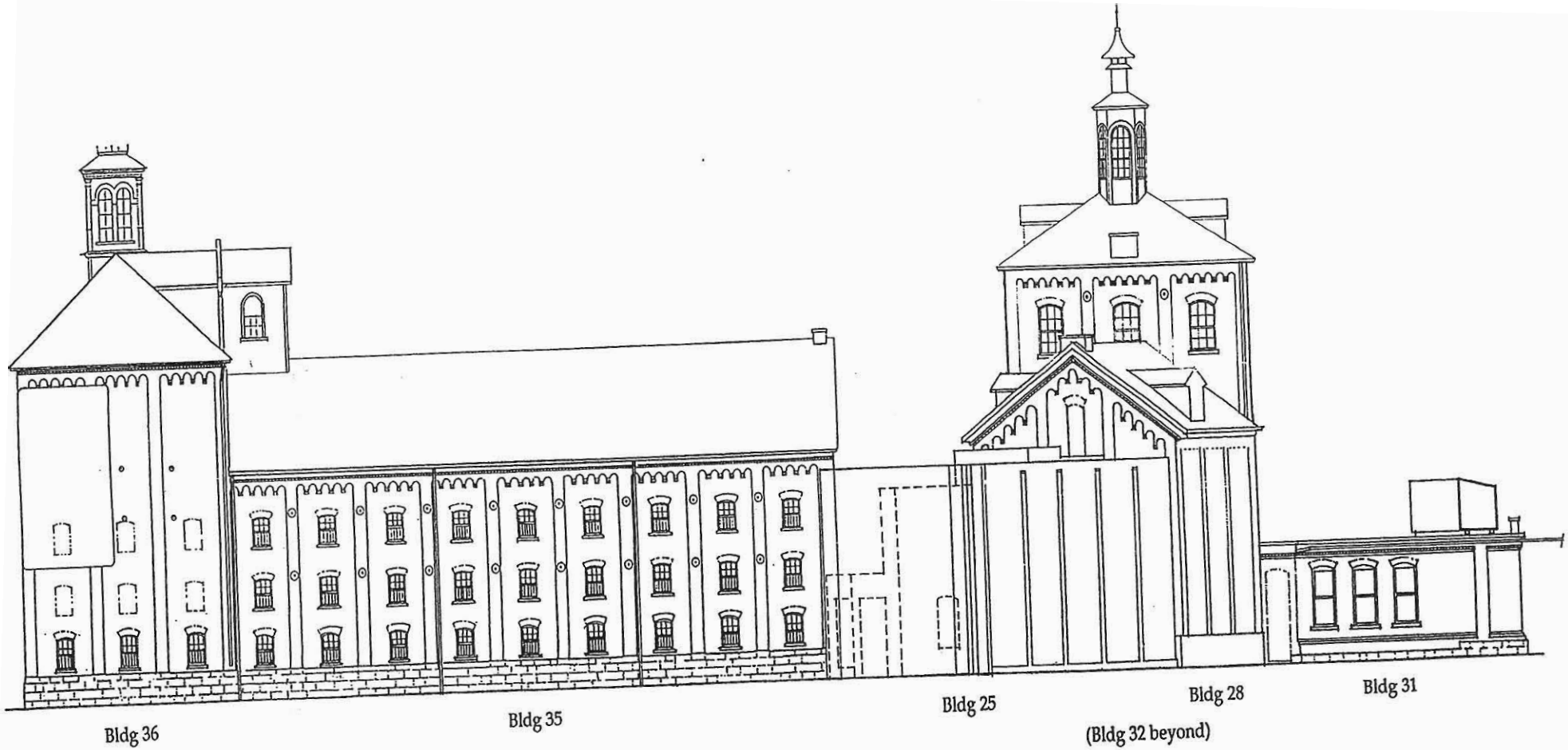


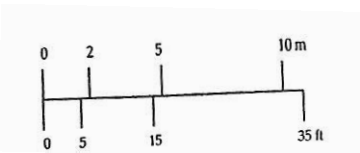
THE MALTINGS/COOPERAGE
EAST ELEVATION
EXISTING





THE MALTINGS/COOPERAGE
NORTH ELEVATION
EXISTING





THE MALTINGS/COOPERAGE
WEST ELEVATION
EXISTING

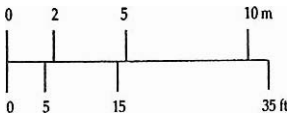
Source: Shore Tilbe Henschel Irwin Peters drawing

Bldg 25

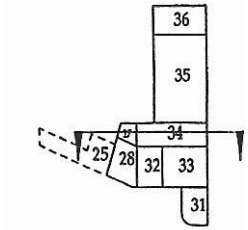
Bldg 28

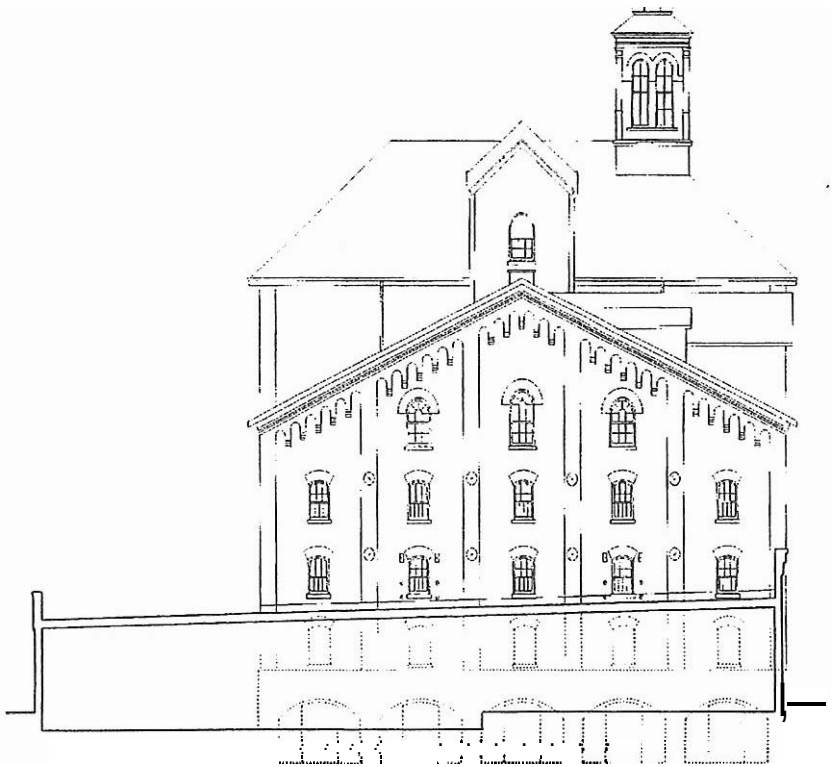
Bldg 32

Bldg 31
(Bldg 33 beyond)



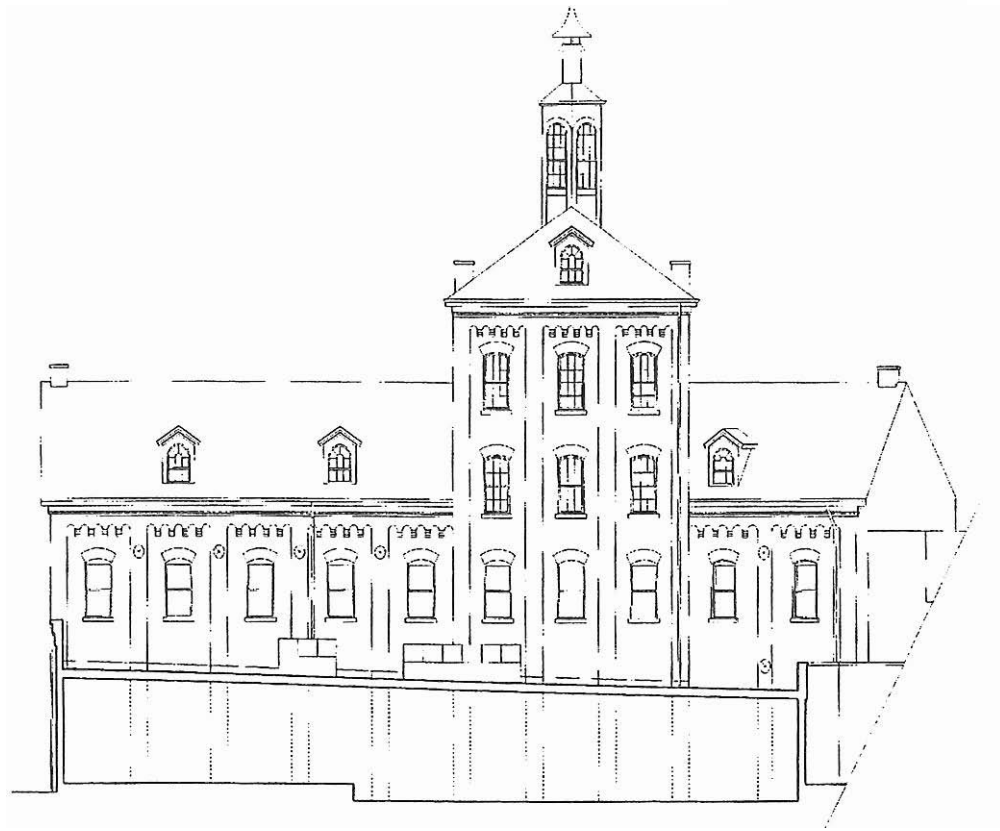
THE MALTINGS/COOPERAGE
SOUTH ELEVATION
EXISTING





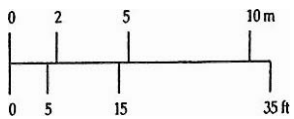
Bldg 35
(Bldg 36 beyond)

SOUTH ELEVATION - THE MALTINGS

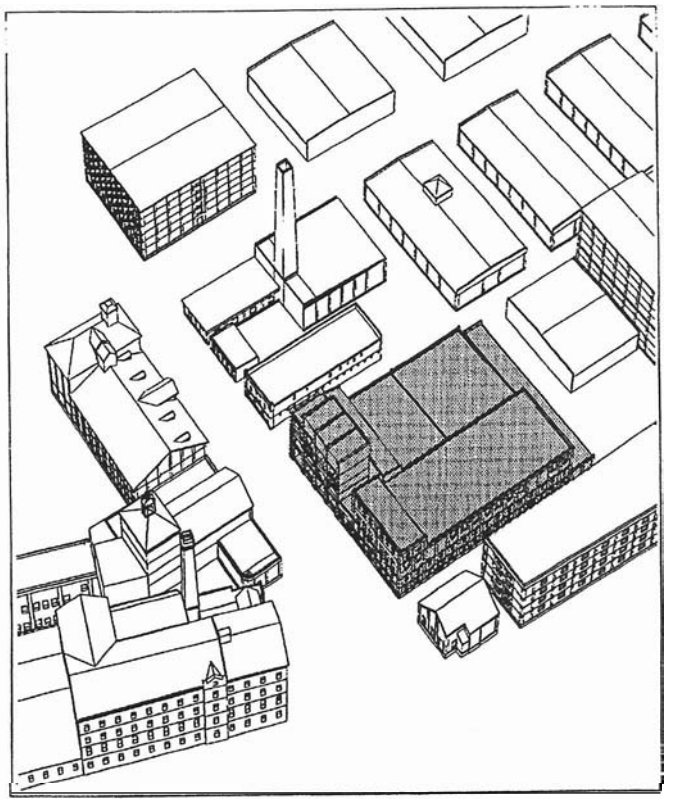


Bldg 33 Bldg 32 Bldg 28

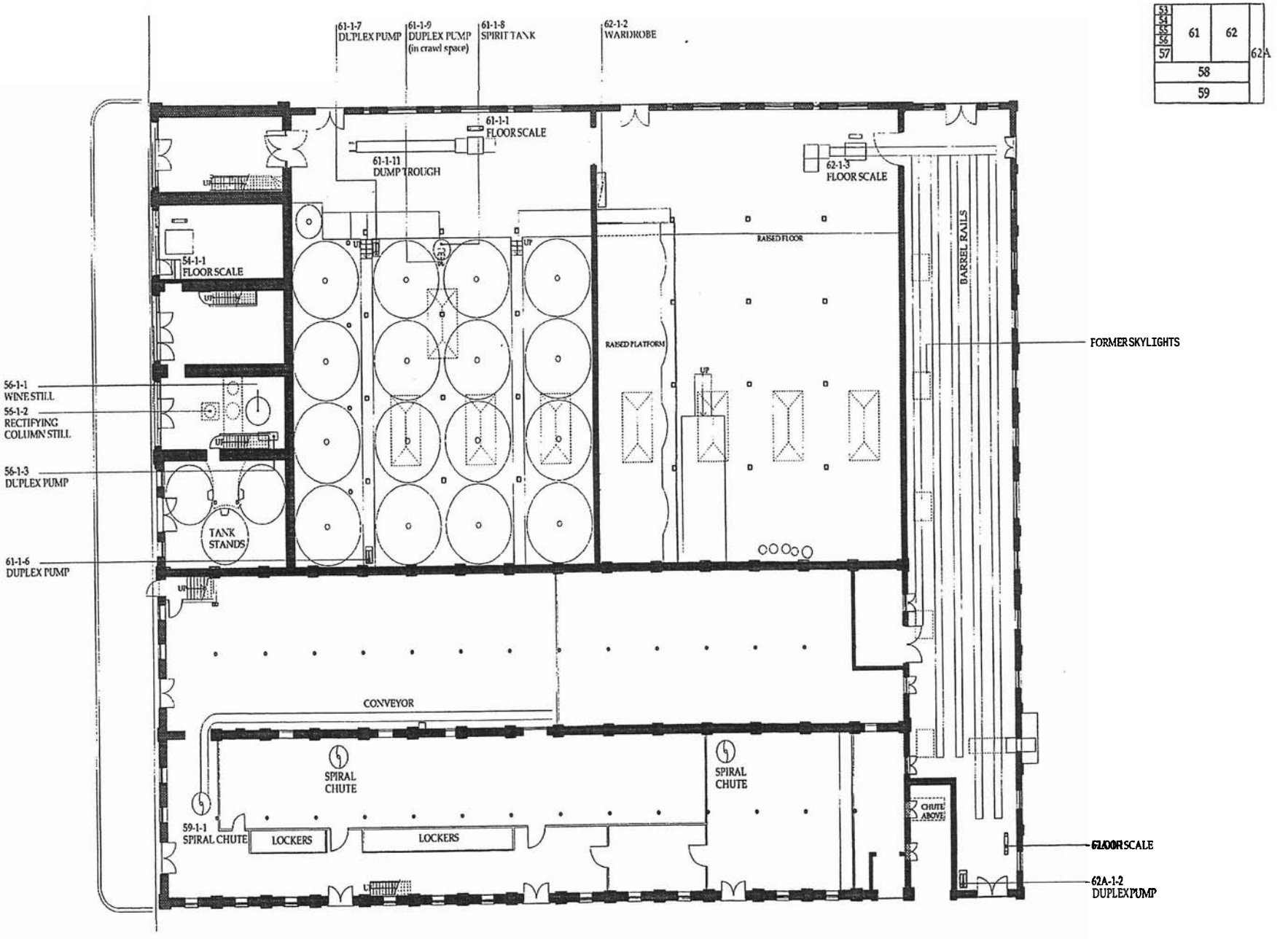
NORTH ELEVATION - COOPERAGE

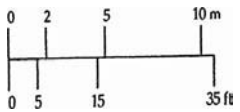


THE MALTINGS/COOPERAGE
OTHER ELEVATIONS
EXISTING



3. PURE SPIRITS/CANNERY
BUILDING GROUP

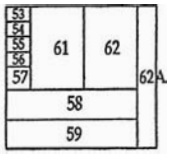


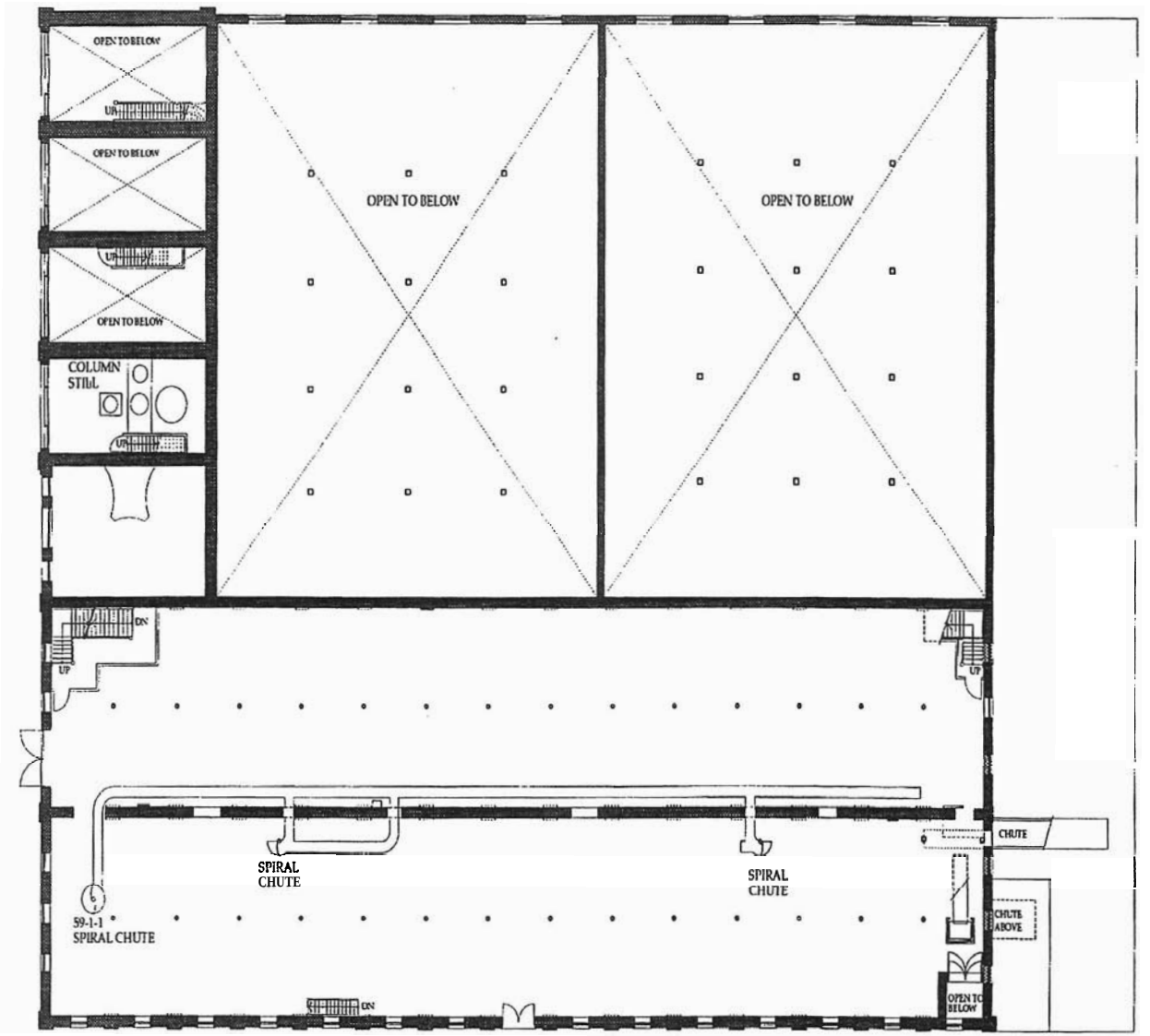


PLJRE SPIRITS/CANNERY

GROUND FLOOR PLAN

EXISTING

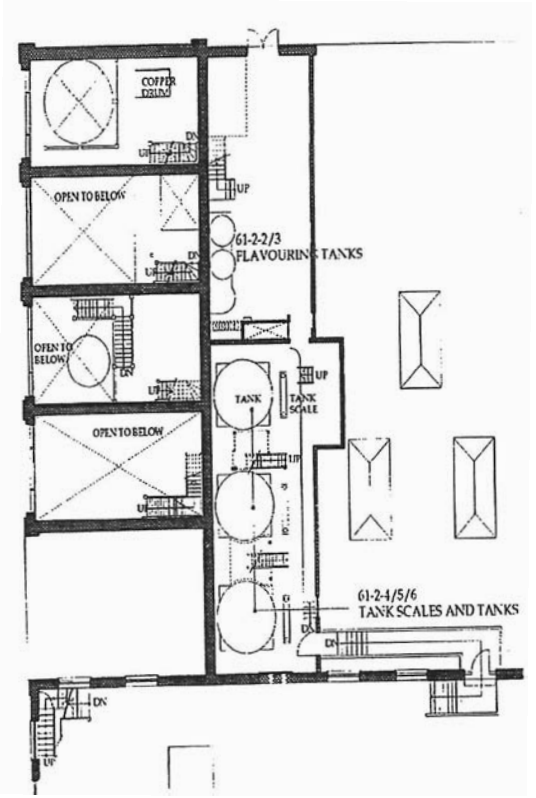




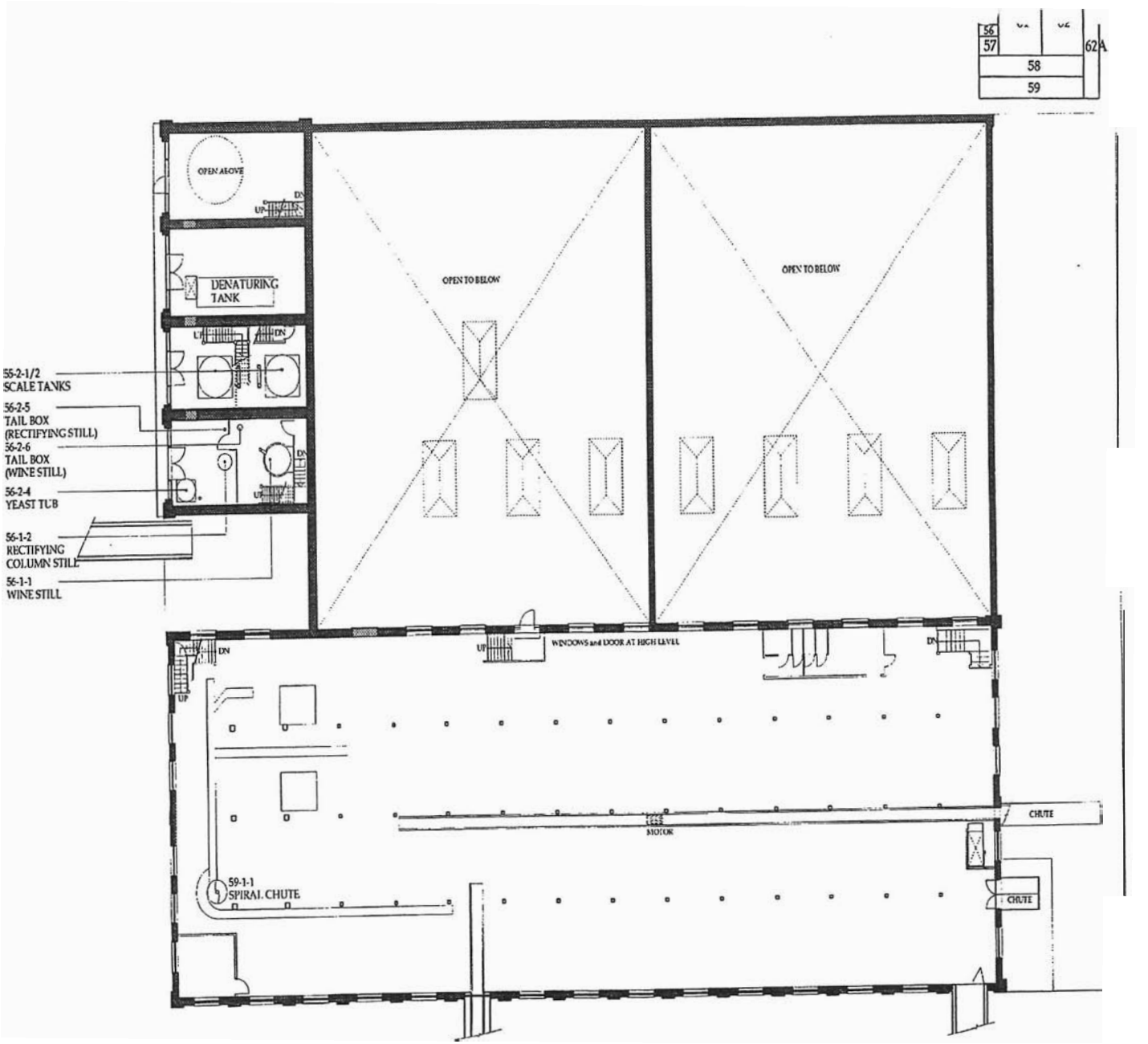
PURE SPIRITS/CANNERY

2ND FLOOR PLAN – CANNERY

EXISTING



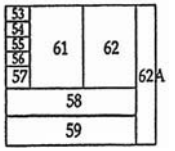
2ND **MEZZANINE** FLOOR PLAN
PURE SPIRITS

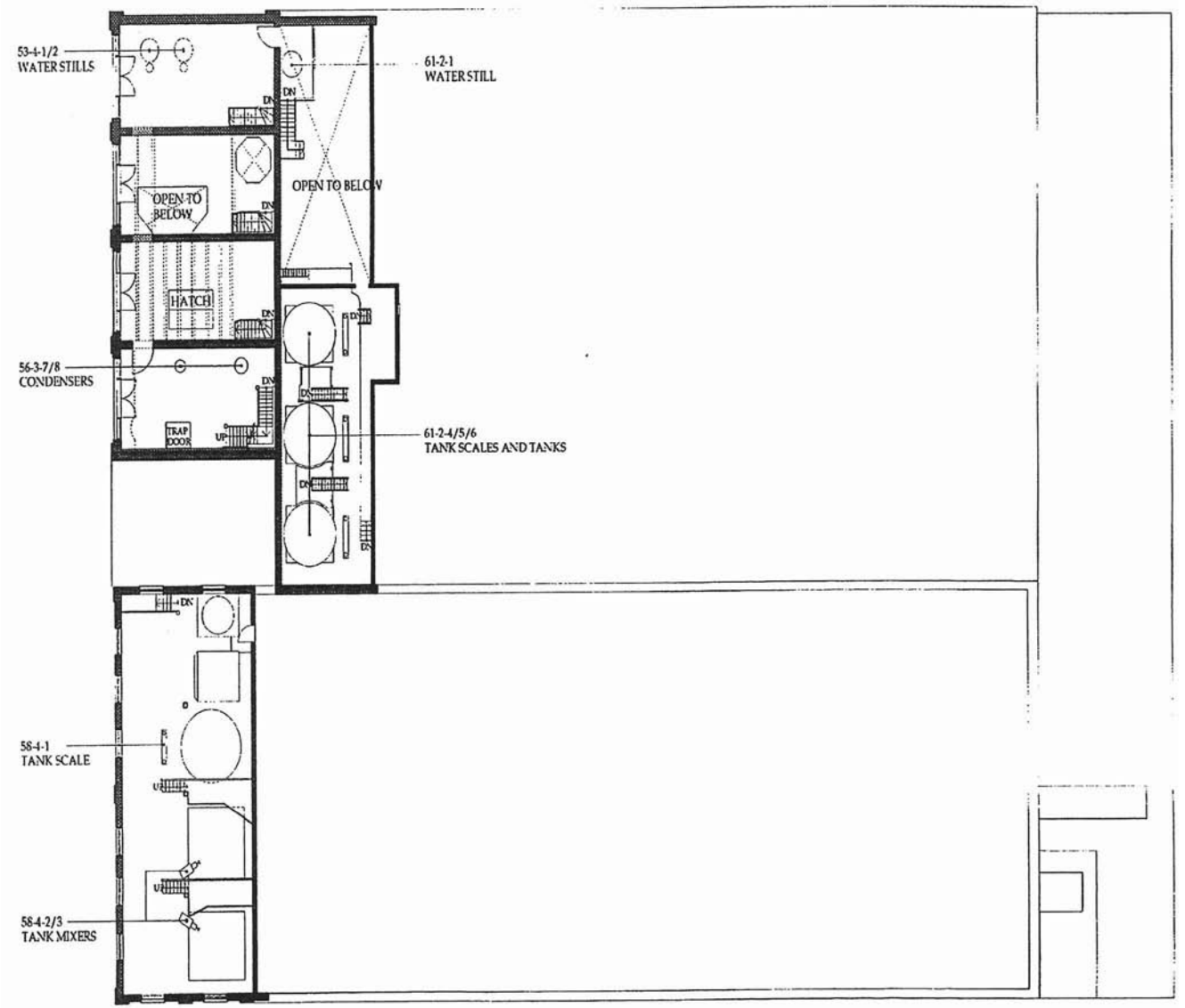


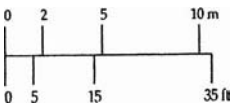
PURE SPIRITS/CANNERY

2ND FLOOR PLAN – PURE SPIRITS
3RD FLOOR PLAN – CANNERY

EXISTING



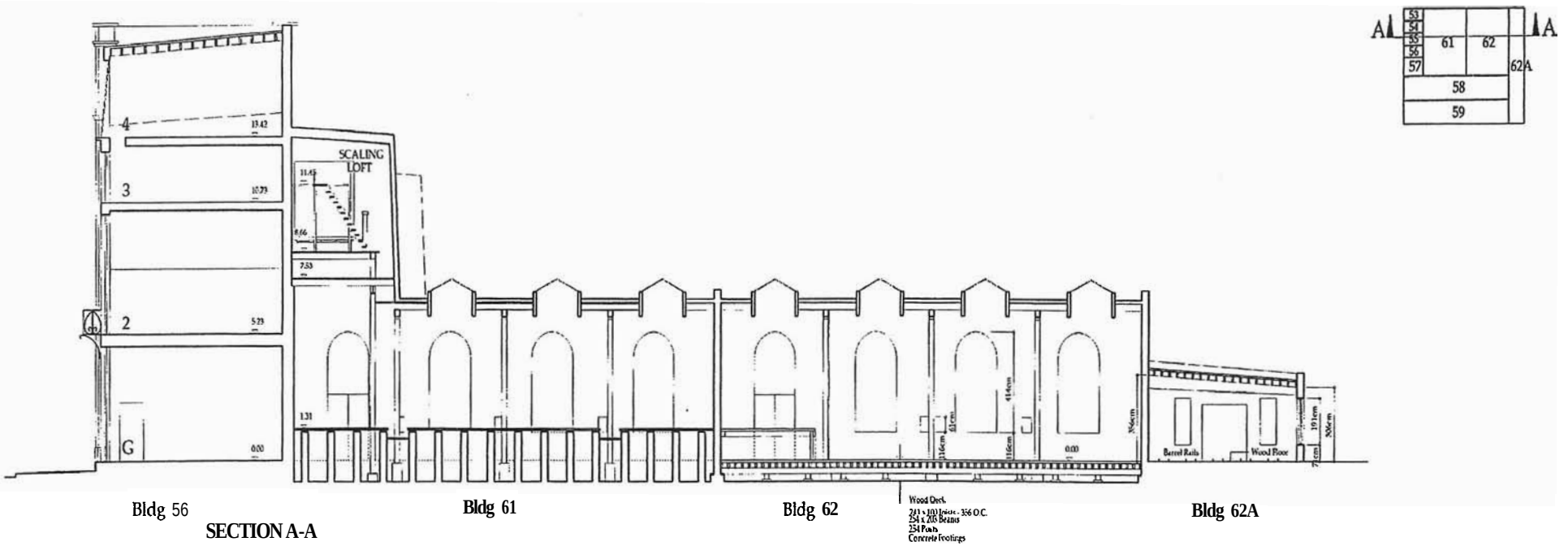




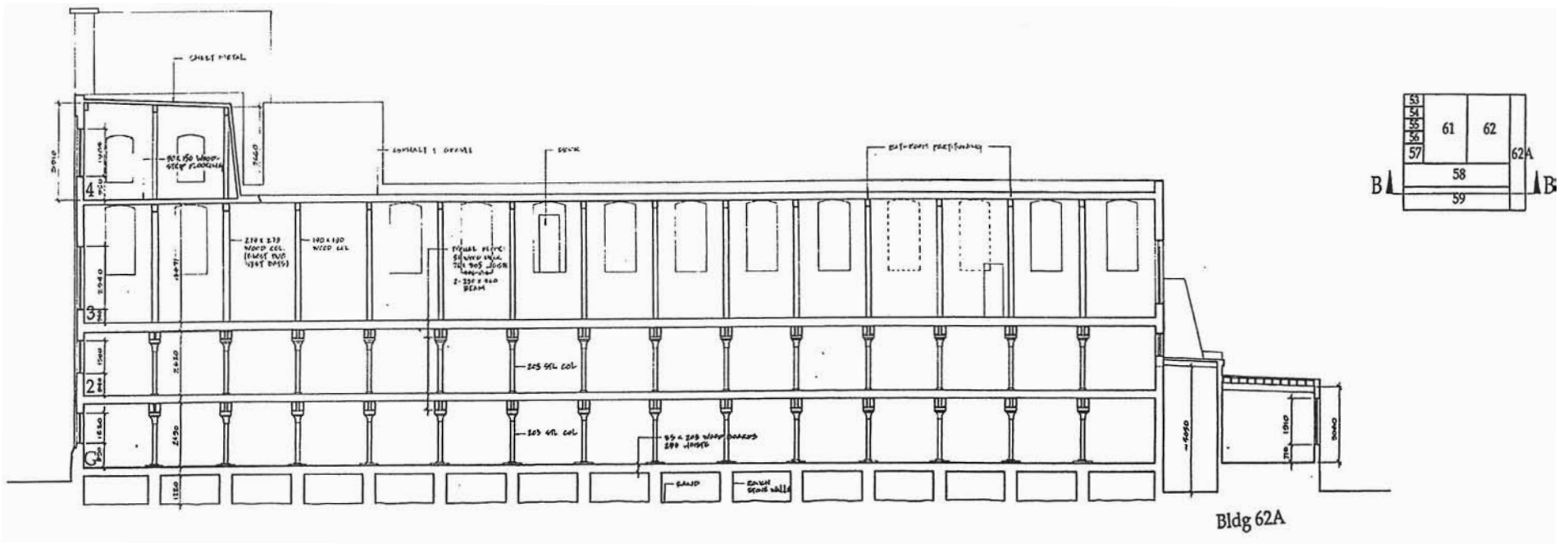
PURE SPIRTS/CANNERY

3RD FLOOR PLAN – PURE SPIRITS
4TH FLOOR PLAN – CANNERY

EXISTING



SECTION A-A



Bldg 59

SECTION B-B

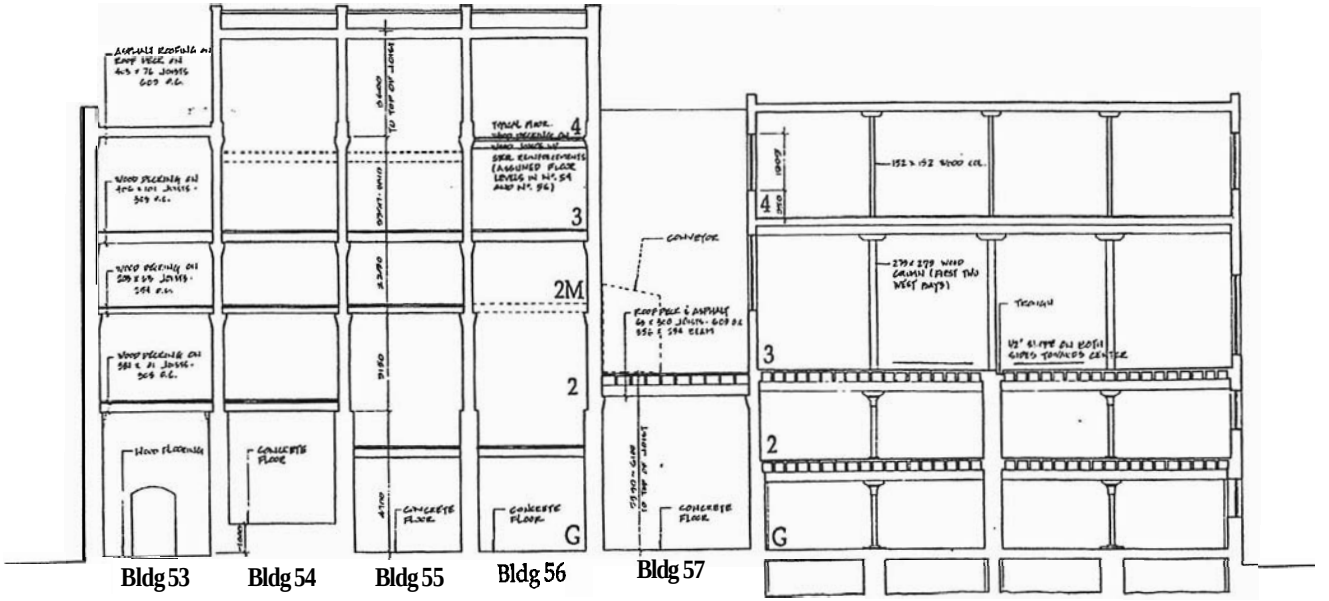
10 m

0 5 15 35 ft

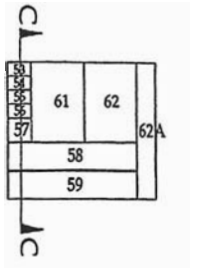
PURE SPIRITS/CANNERY

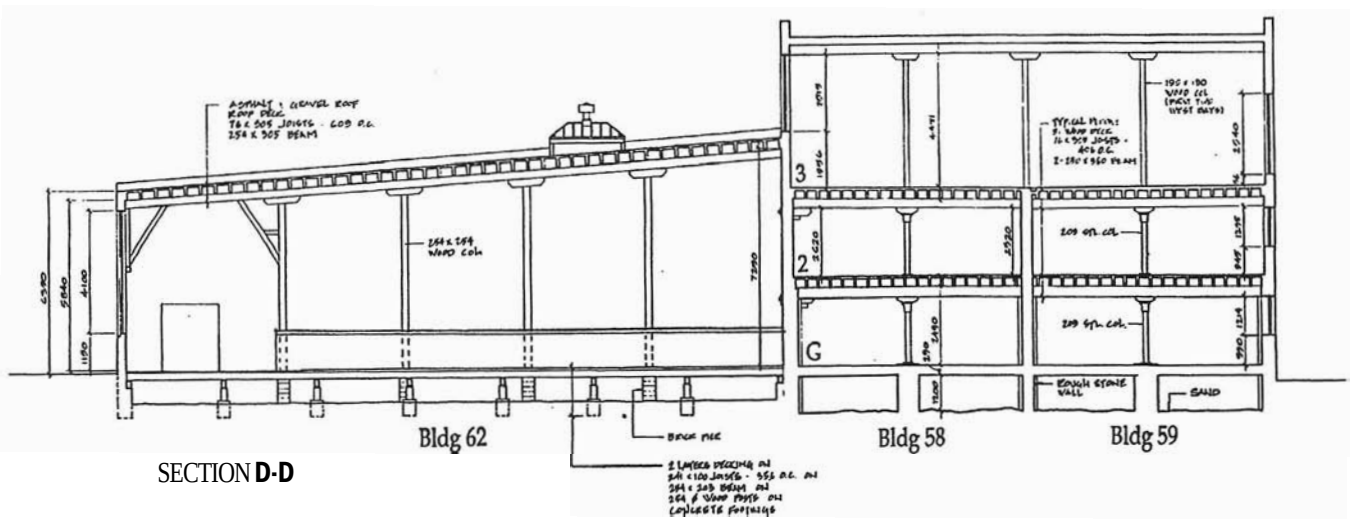
SECTIONS A-A, B-B

EXISTING

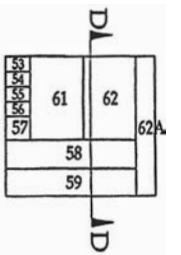


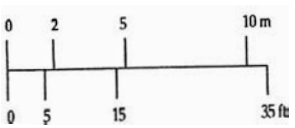
SECTION C-C





SECTION **D-D**

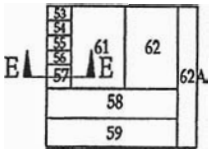


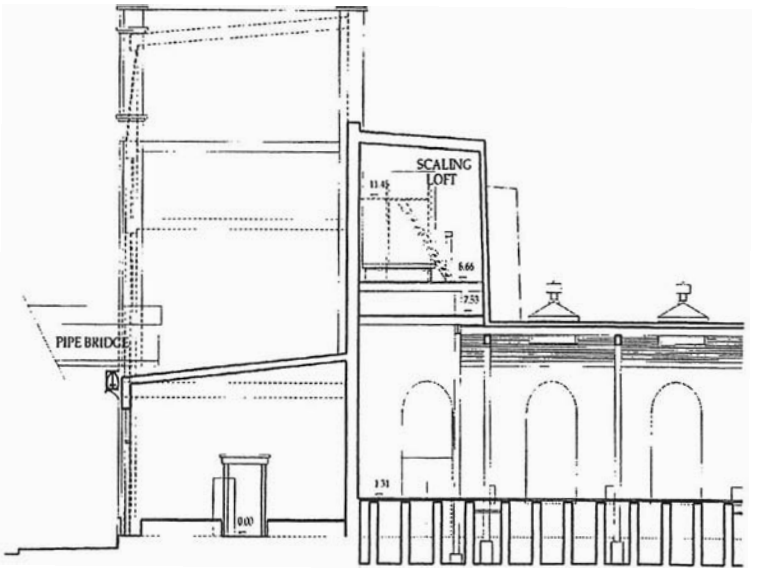


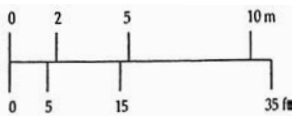
PURE SPIRITS/CANNERY

SECTIONS *C-C*, **D-D**

EXISTING





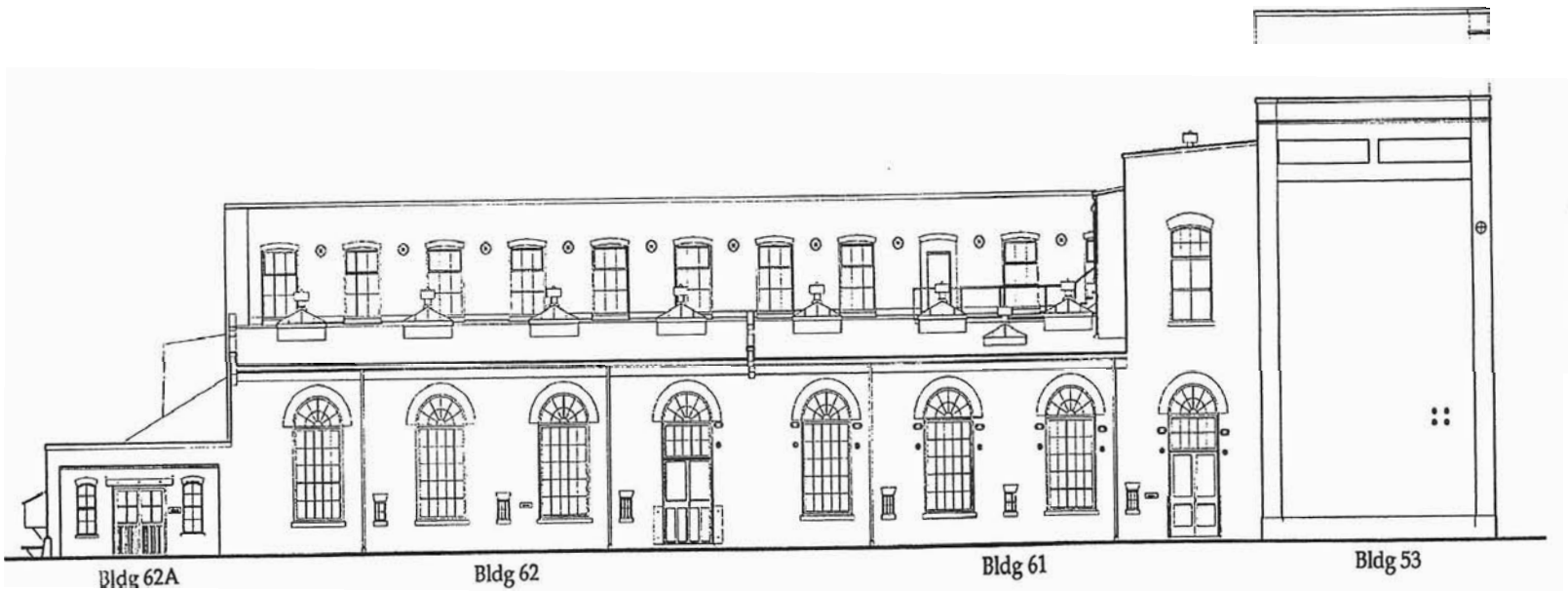


PURE SPIRITS/CANNERY

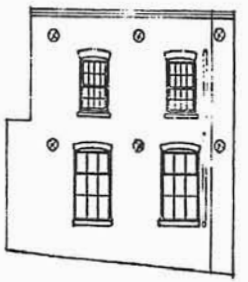
SECTION E-E

EXISTING

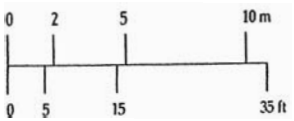
WEST ELEVATION



NORTH ELEVATION



NORTH ELEVATION OF BLDG 58 BEYOND

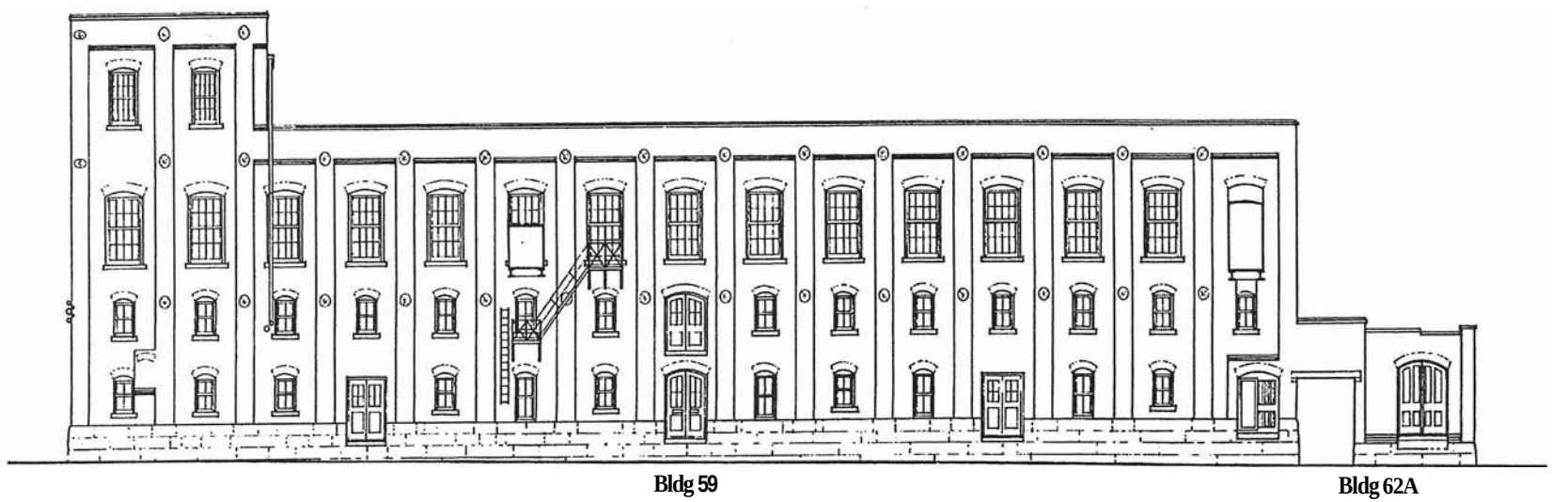


PURE SPIRITS/CANNERY

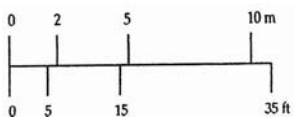
WEST, NORTH ELEVATIONS

EXISTING

EAST ELEVATION



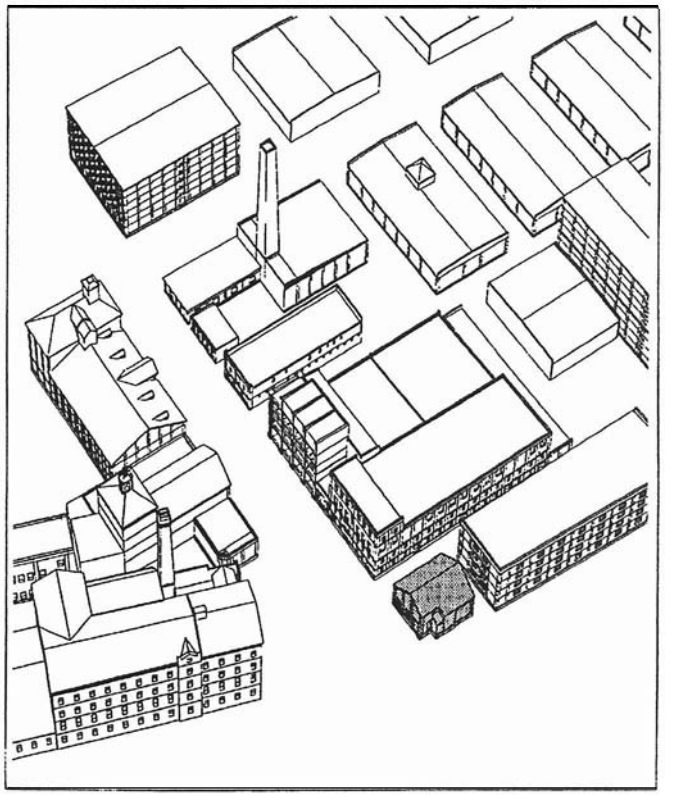
SOUTH ELEVATION



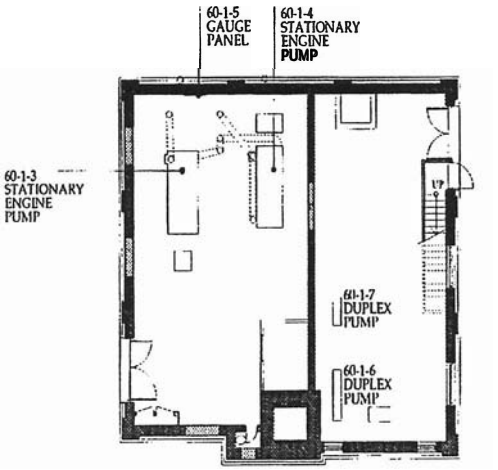
PURE SPIRITS/CANNERY

EAST, SOUTH ELEVATIONS

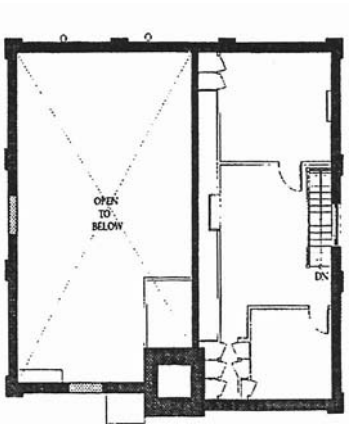
EXISTING



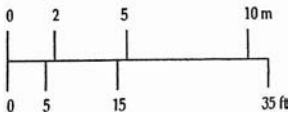
4. PUMPHOUSE



GROUND FLOOR **PLAN**



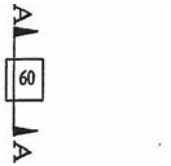
MEZZANINE FLOOR **PLAN**

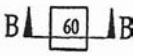


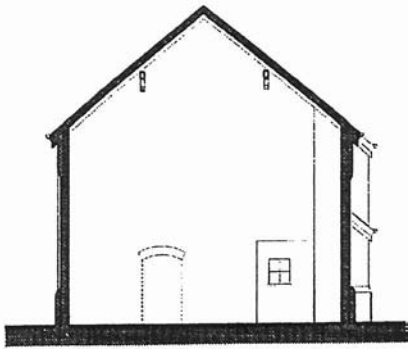
PUMP HOUSE

FLOOR PLANS

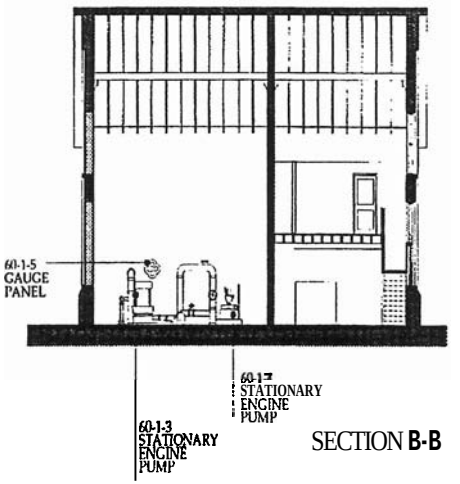
EXISTING



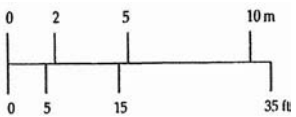




SECTION **A-A**



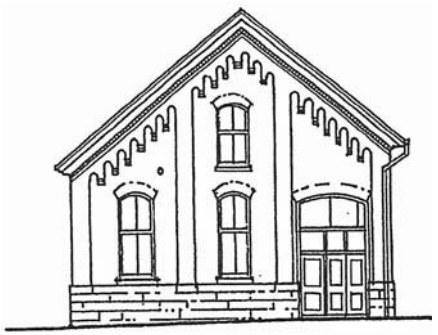
SECTION **B-B**



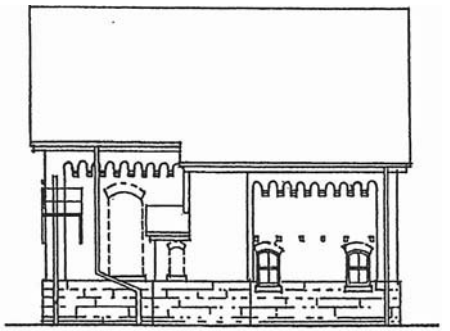
PUMP HOUSE

SECTIONS **A-A,** B-B

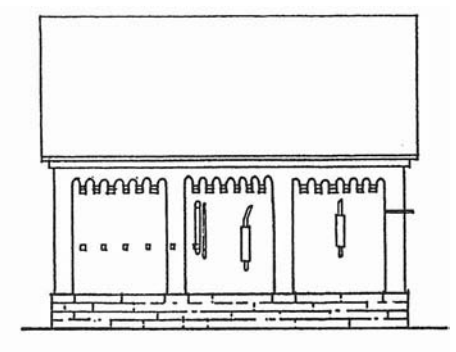
EXISTING



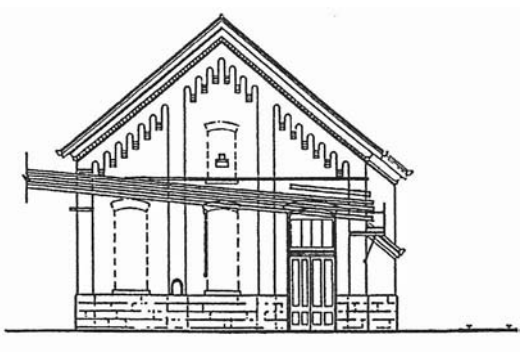
EAST ELEVATION



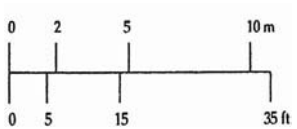
SOUTH ELEVATION



NORTH ELEVATION



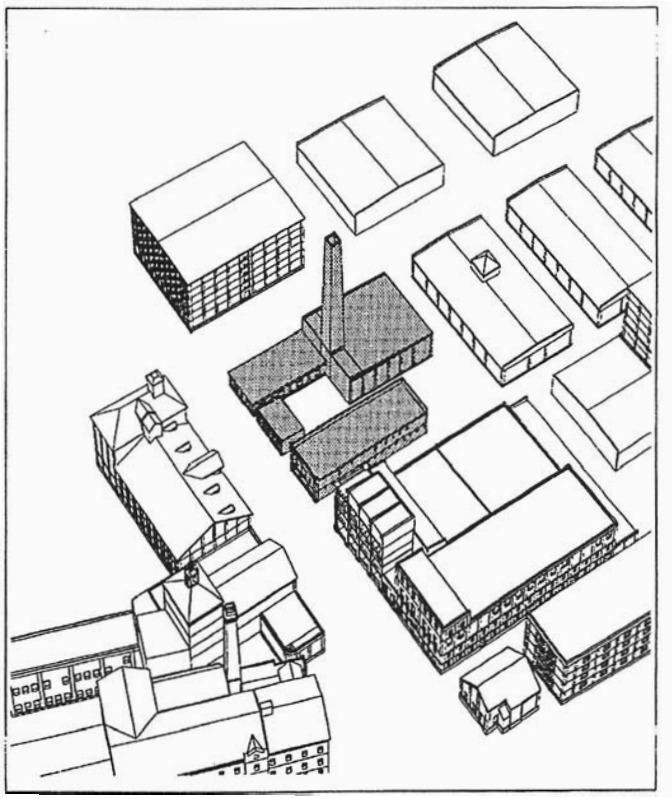
WEST ELEVATION



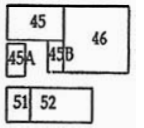
PUMP HOUSE

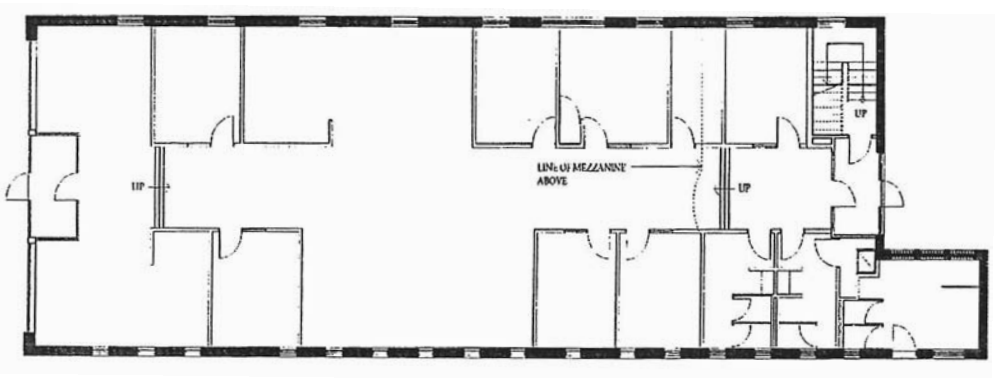
ELEVATIONS

EXISTING



5. BOILER HOUSE
BUILDING **GROUP**

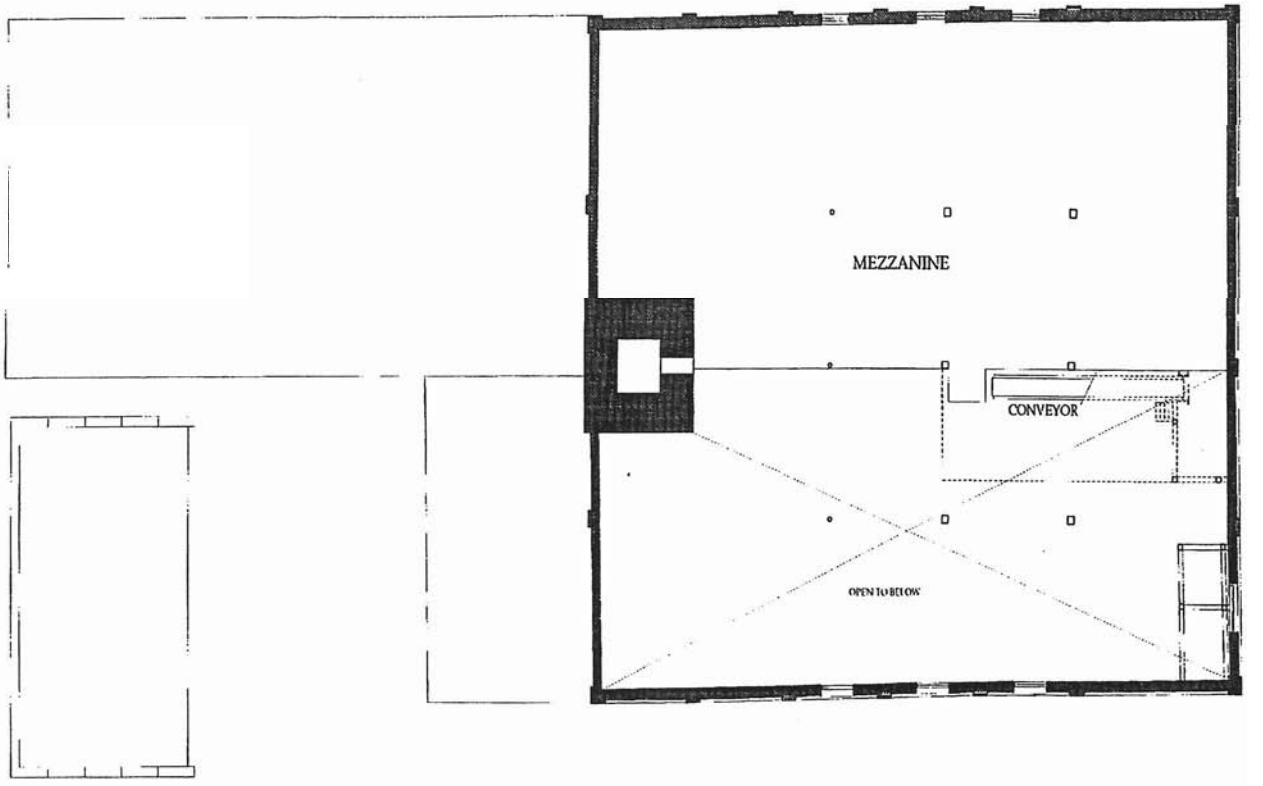


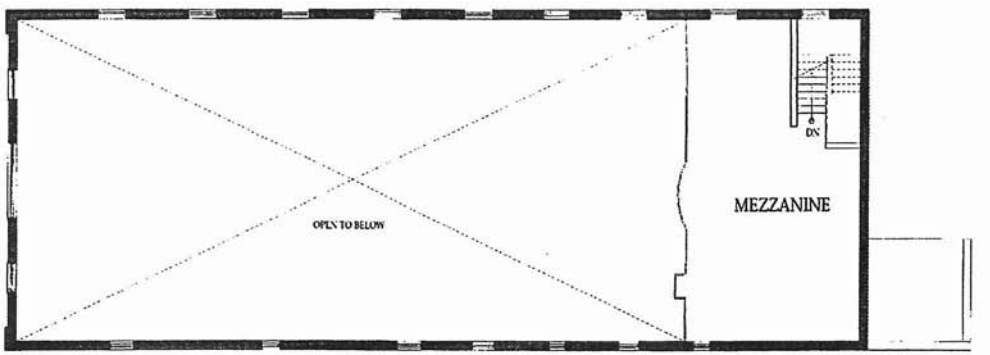


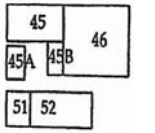
BOILER HOUSE GROUP

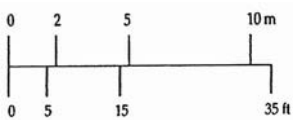
GROUND FLOOR PLAN

EXISTING





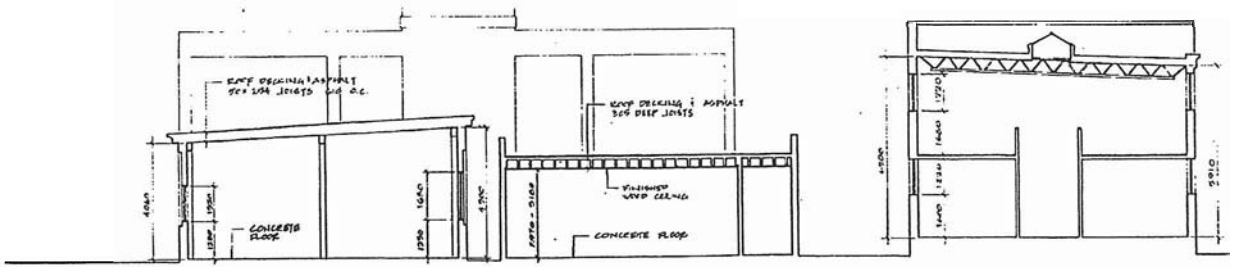


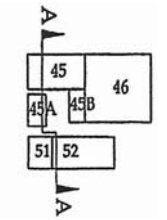


BOILER HOUSE GROUP

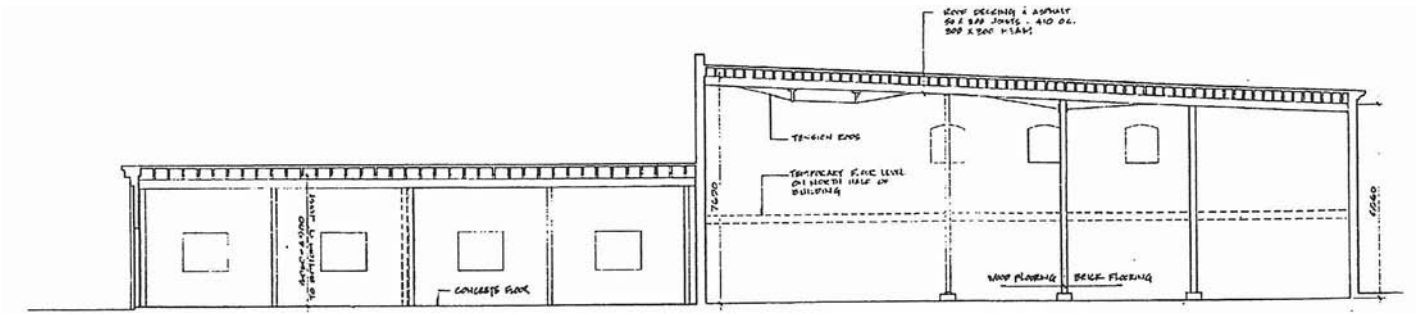
MEZZANINE FLOOR PLAN

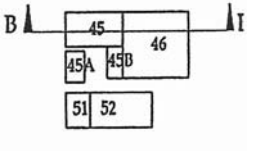
EXISTING



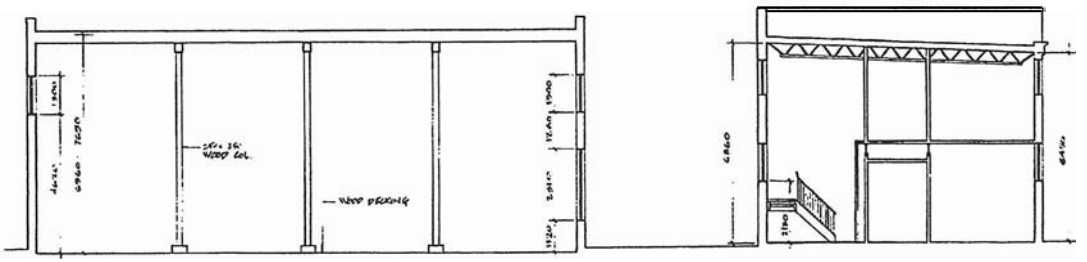


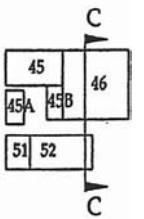
SECTION A-A



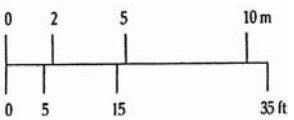


SECTION B-B





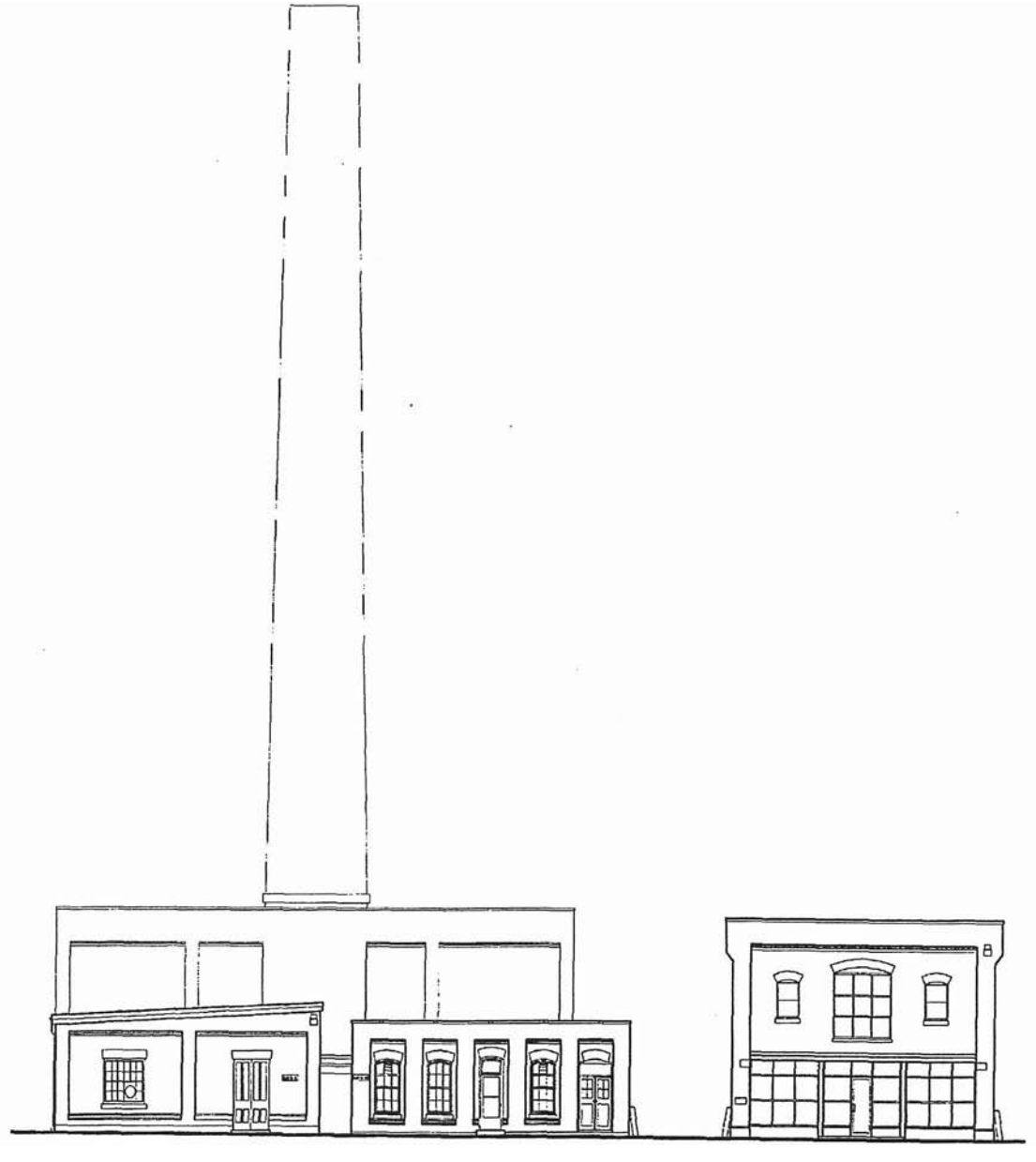
SECTION C-C

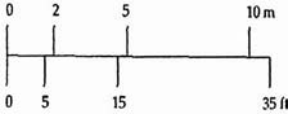


BOILER **HOUSE GROUP**

SECTIONS **A-A, B-B, C-C**

EXISTING

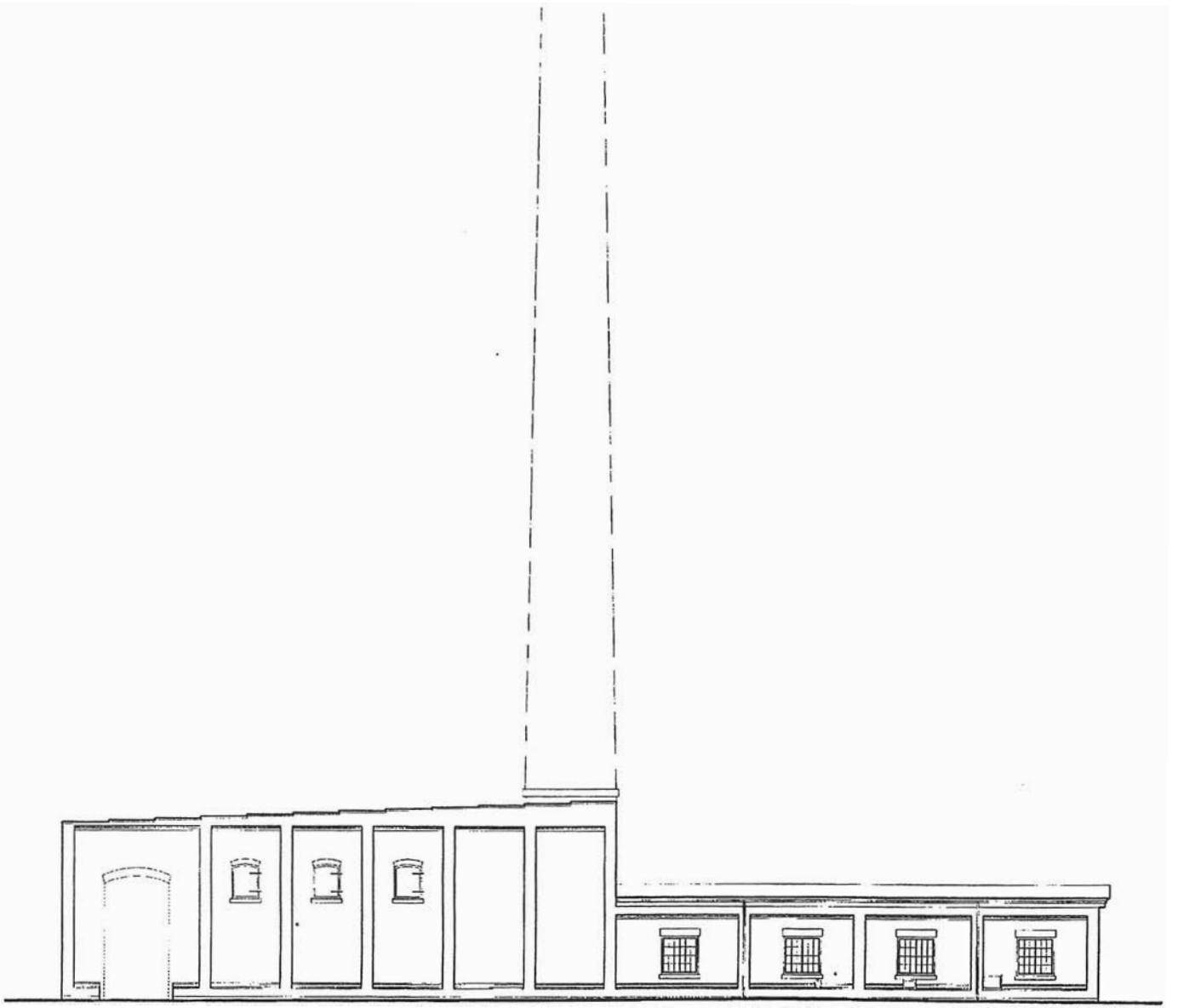




BOILER HOUSE GROUP

WEST ELEVATION

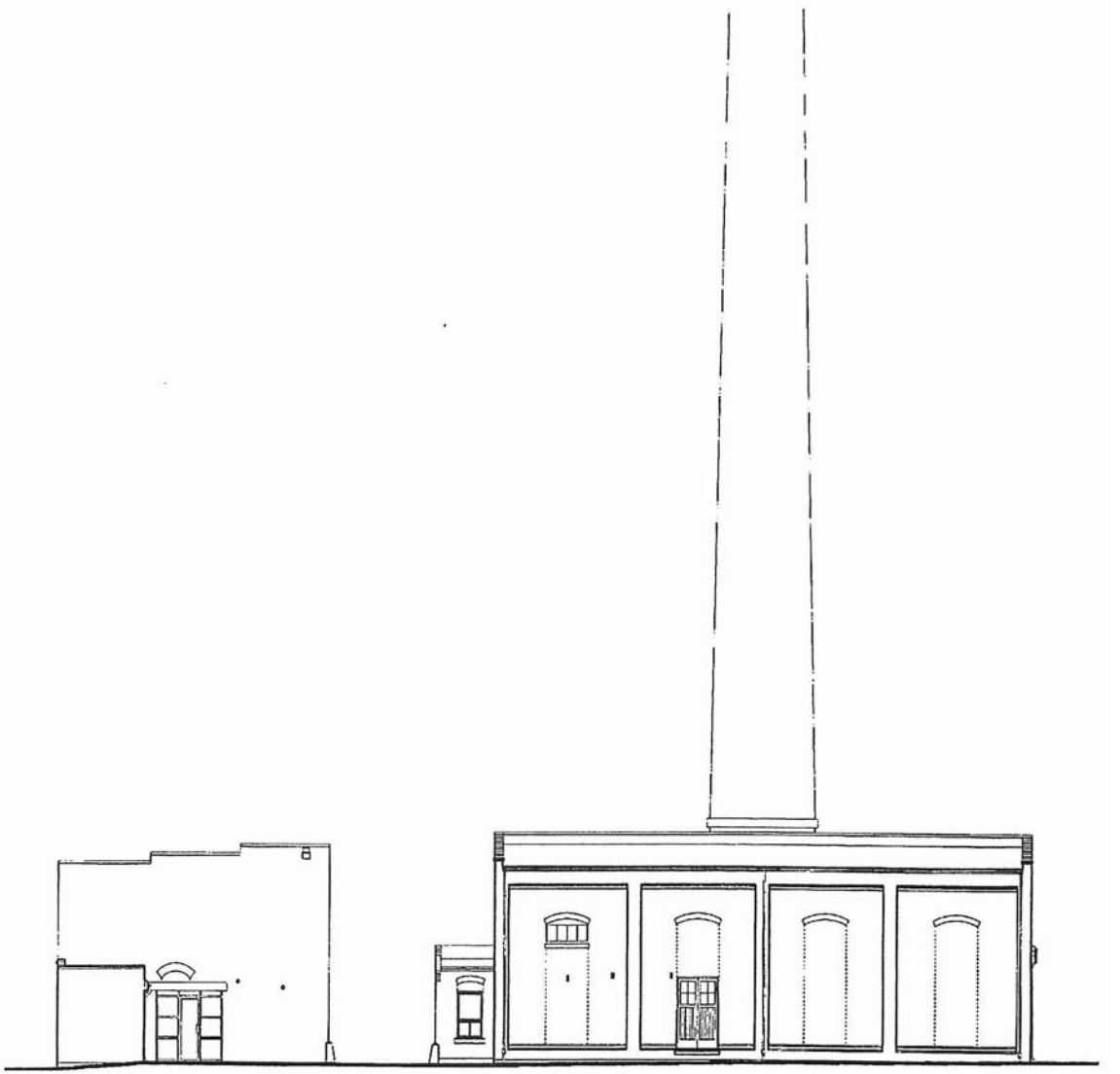
EXISTING

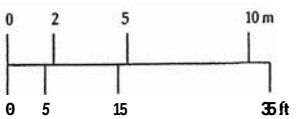


BOILER HOUSE GROUP

NORTH ELEVATION

EXISTING

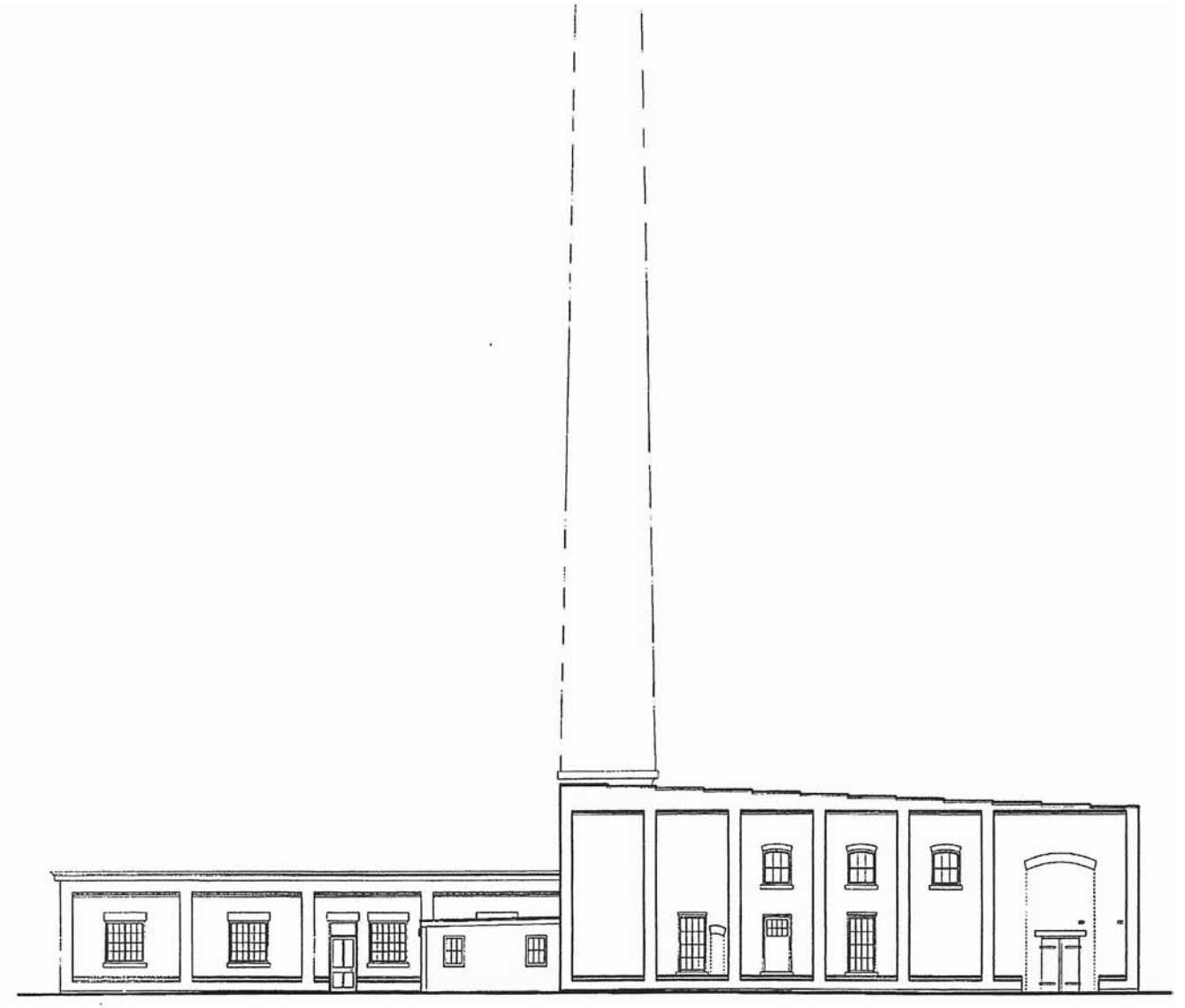


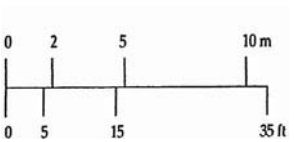


BOILER HOUSE **GROUP**

EAST ELEVATION

EXISTING

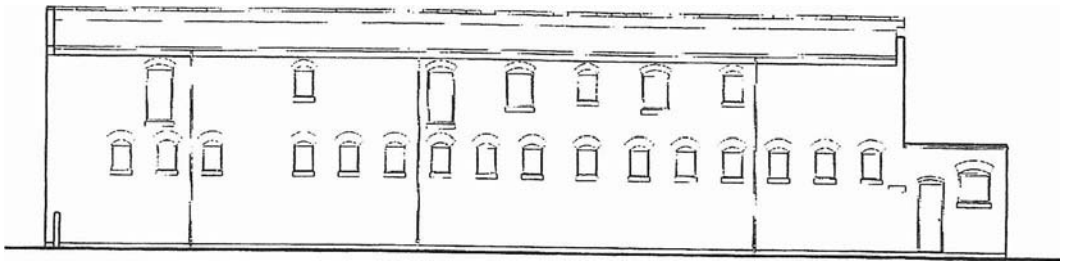




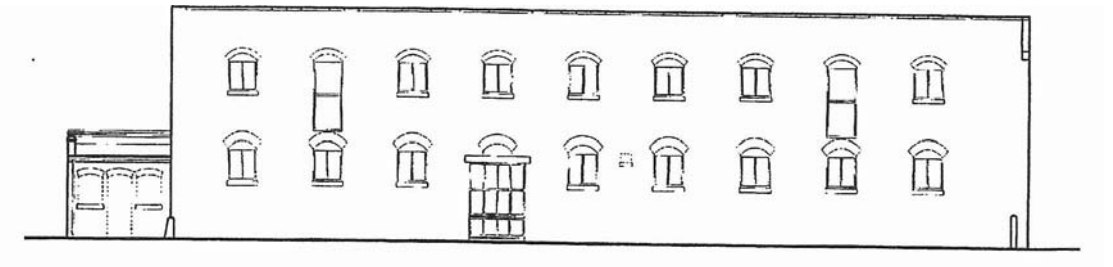
BOILER HOUSE GROUP

SOUTH ELEVATION

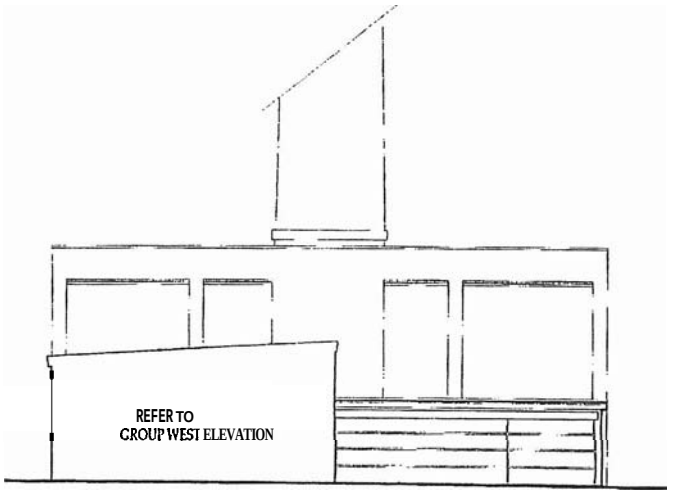
EXISTING



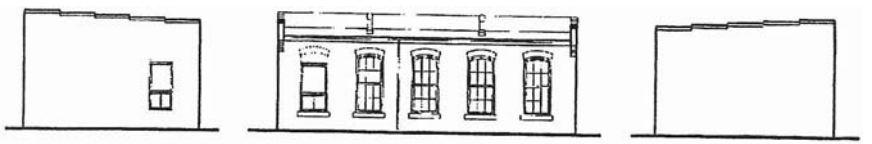
BUILDING #52
South Elevation



BUILDING #52
North Elevation

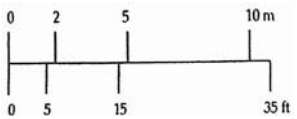


BUILDING #46
West Elevation



South **East** **North**

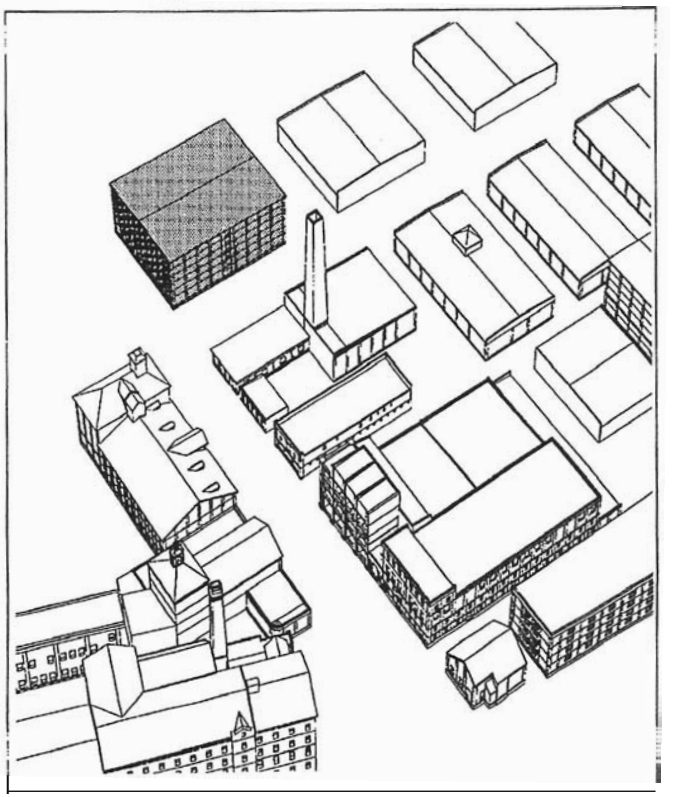
BUILDING **#45A**



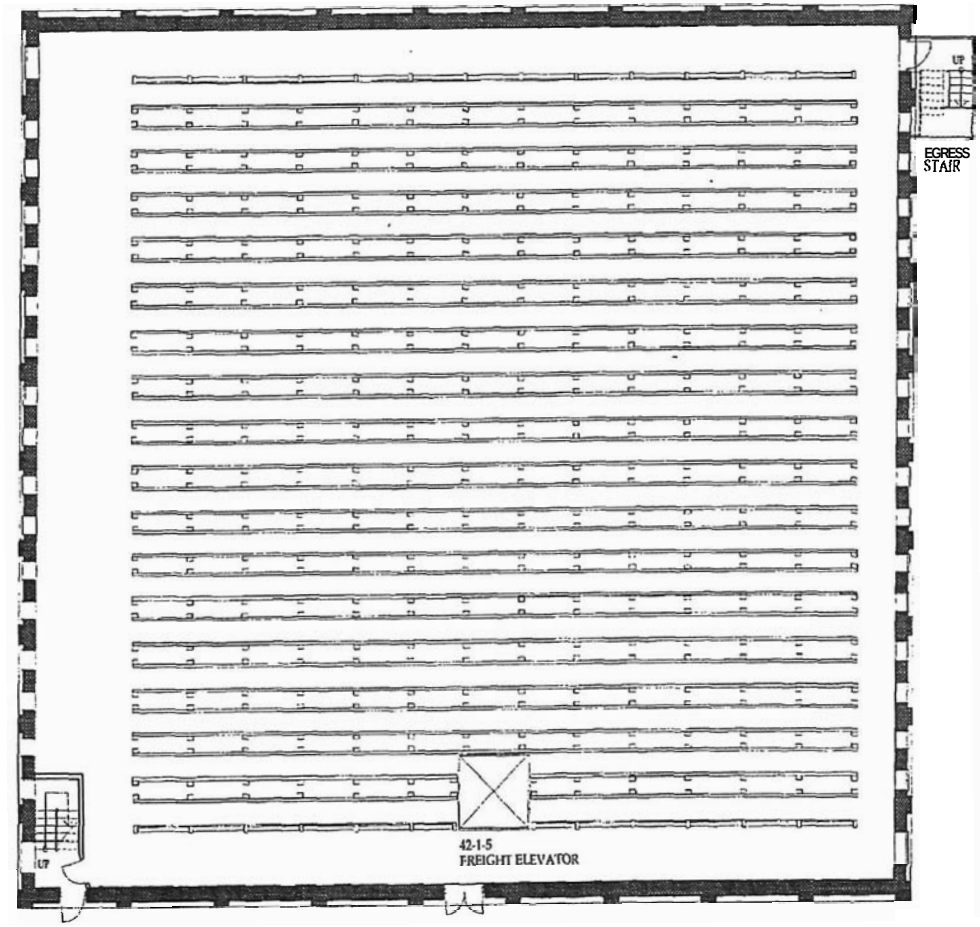
BOILER HOUSE GROUP

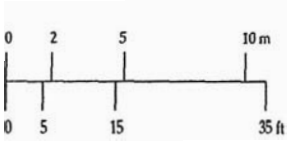
OTHER ELEVATIONS

EXISTING



6. RACK HOUSE 'D'

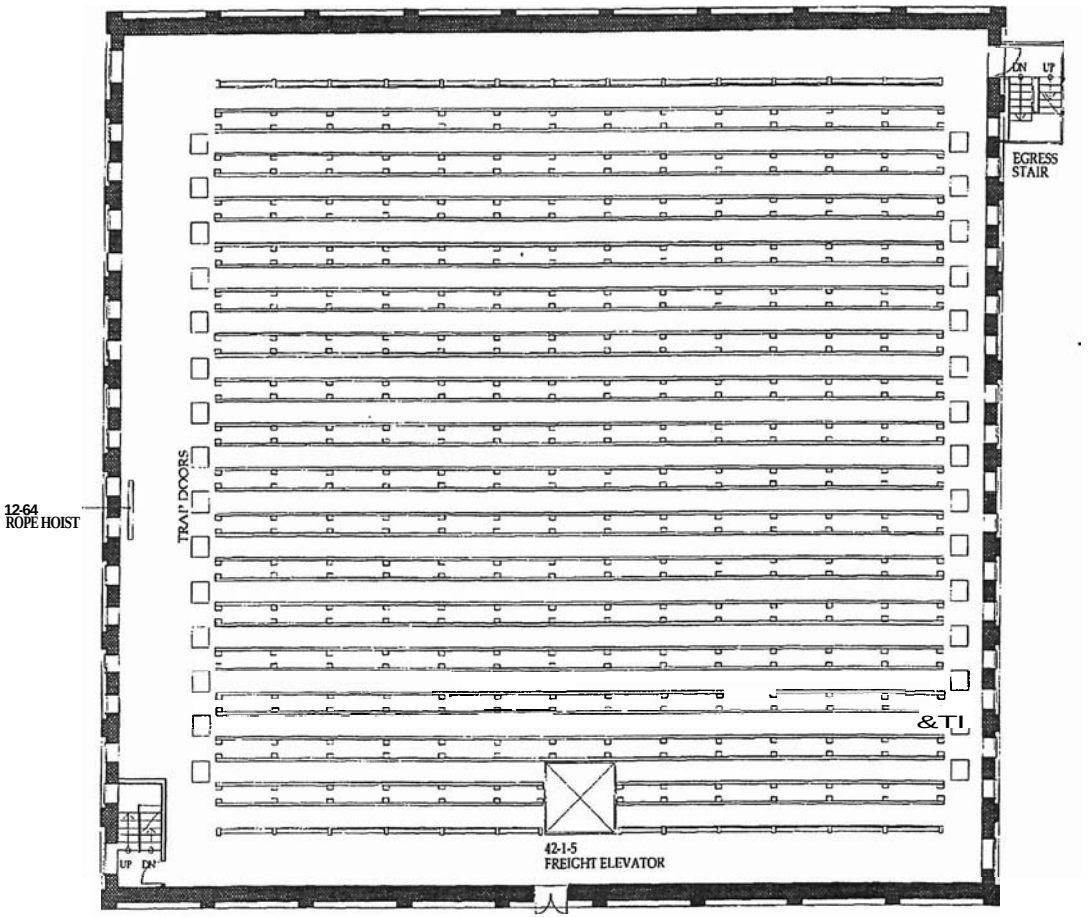


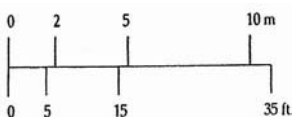


RACK HOUSE 'D'

GROUND FLOOR PLAN

EXISTING

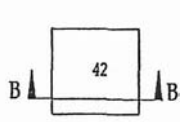


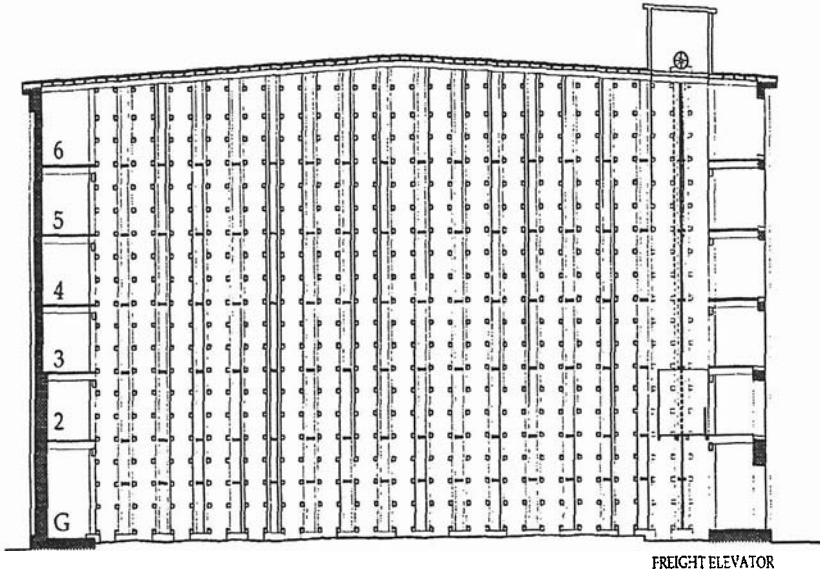


RACK HOUSE 'D'

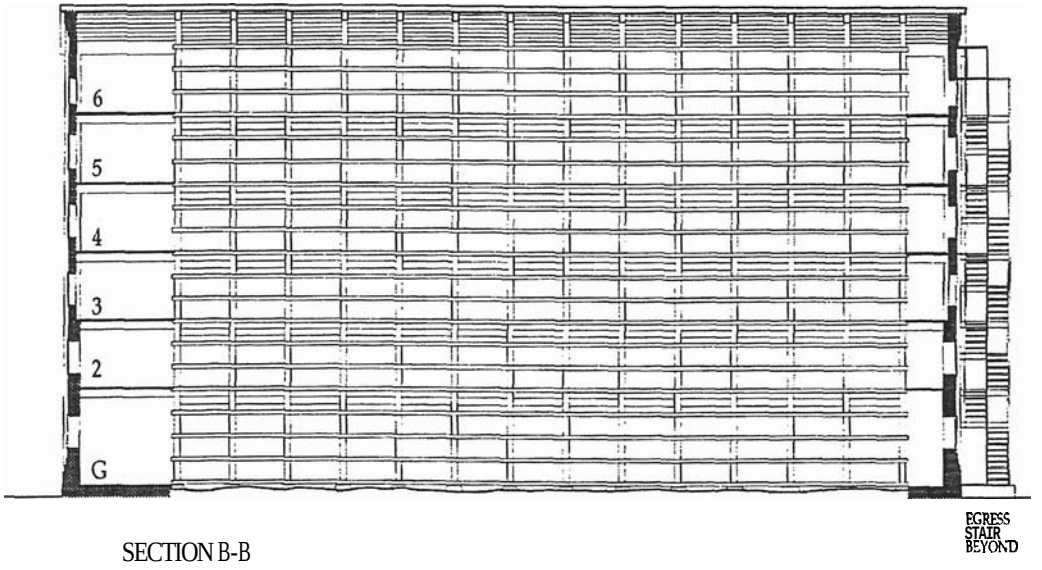
TYPICAL UPPER FLOOR **PLAN**

EXISTING

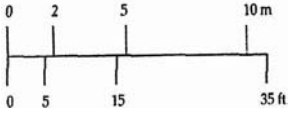




SECTION **A-A**



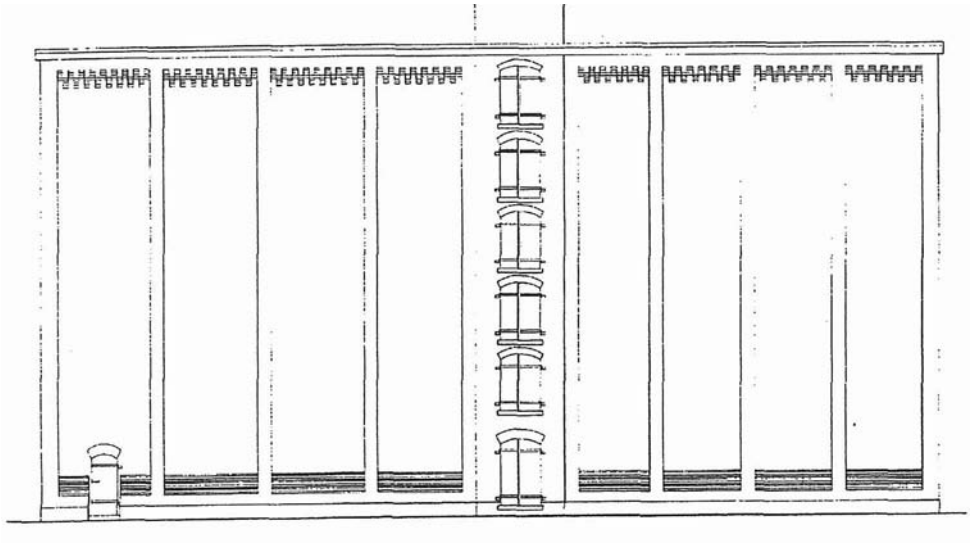
SECTION B-B



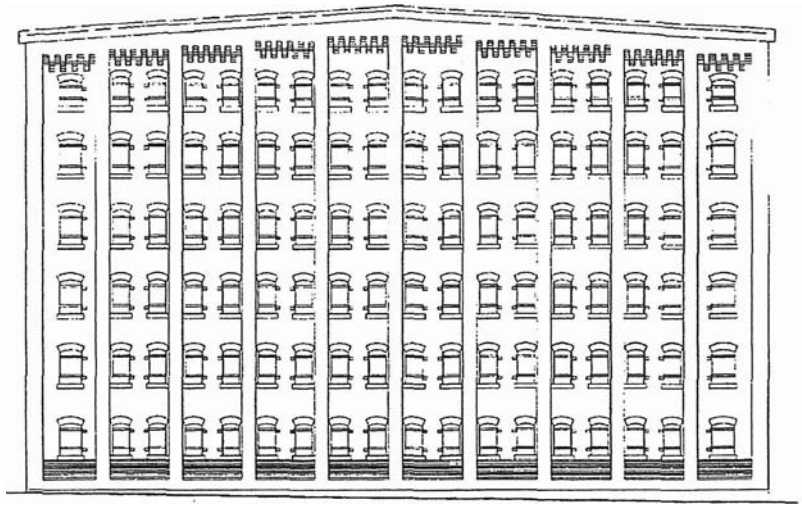
RACK HOUSE 'D'

SECTIONS A-A, B-B

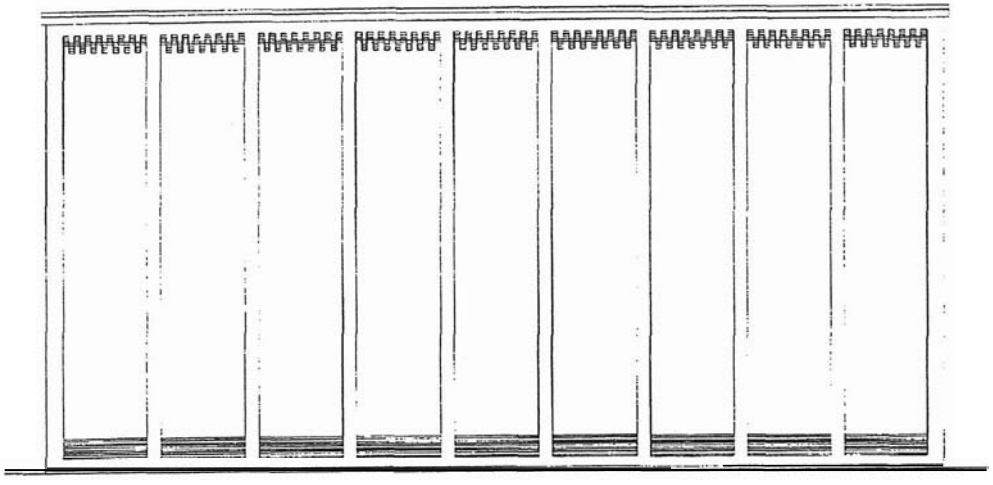
EXISTING



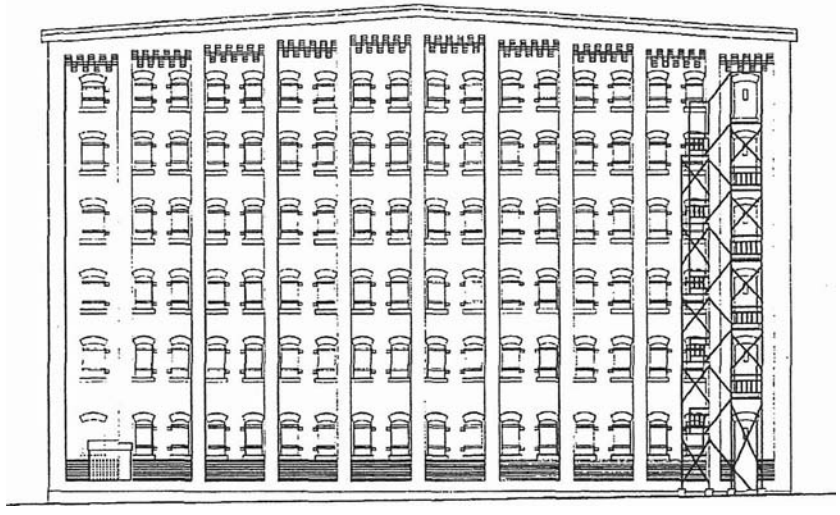
SOUTH ELEVATION



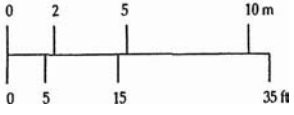
WEST ELEVATION



NORTH ELEVATION



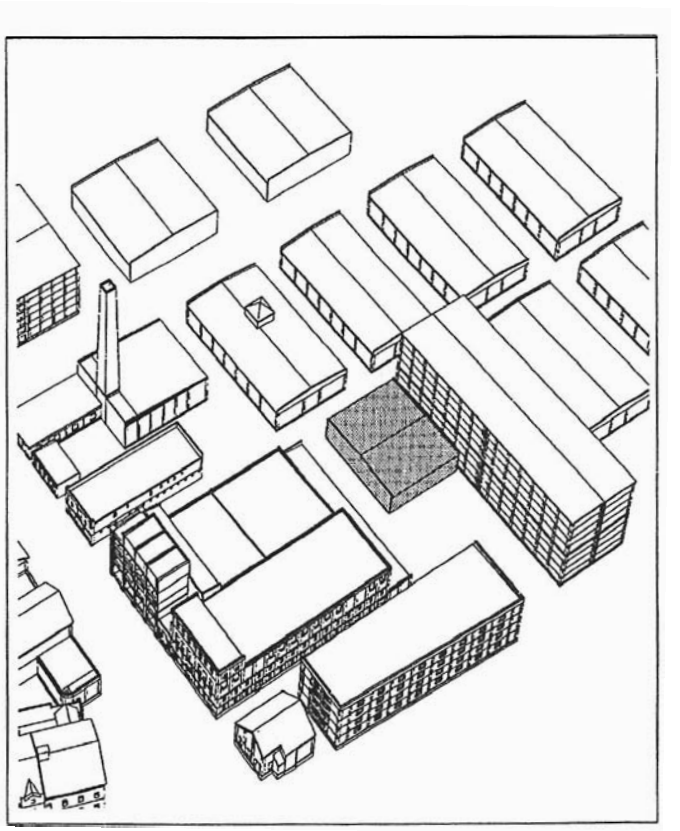
EAST ELEVATION



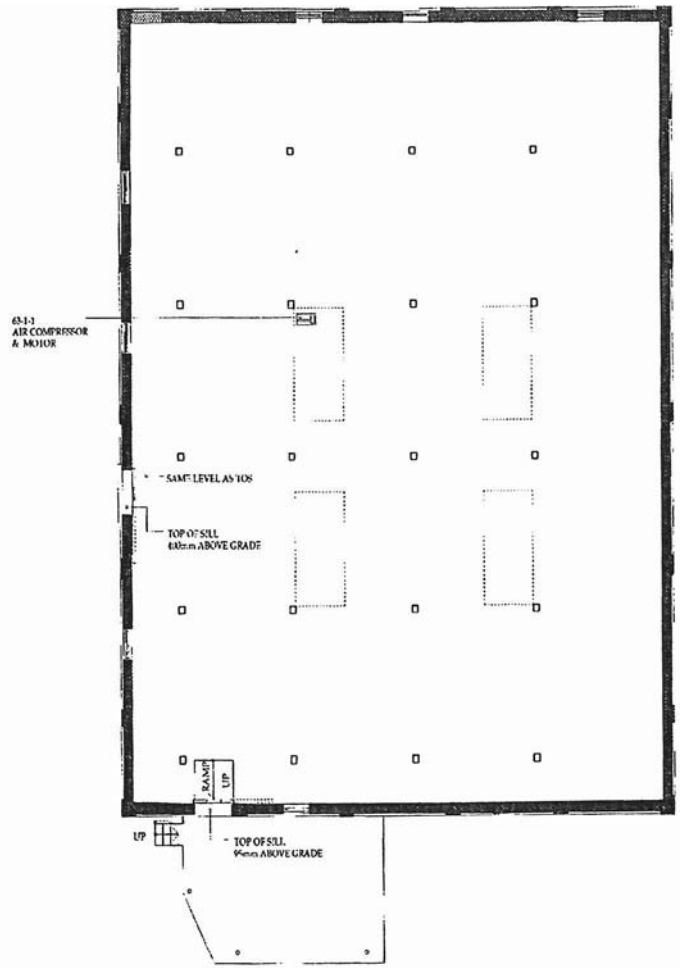
RACK HOUSE 'D'

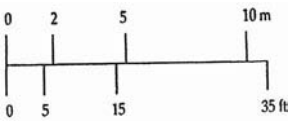
ELEVATIONS

EXISTING



7, PAINT SHOP

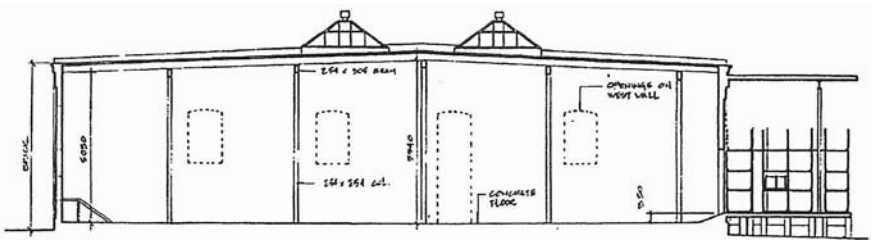




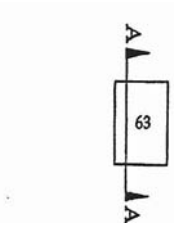
PAINTSHOP

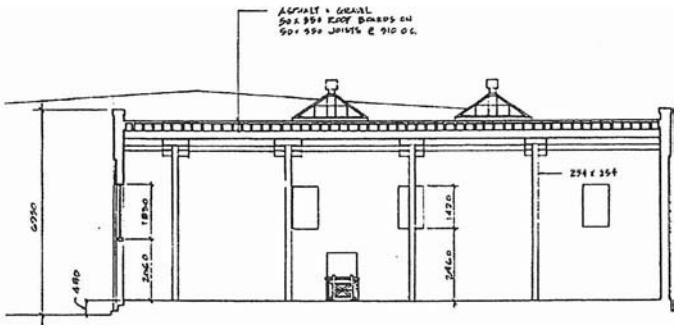
FLOOR PLAN

EXISTING

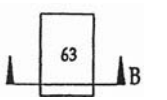


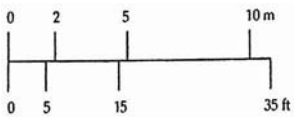
SECTION **A-A**





SECTION B-B

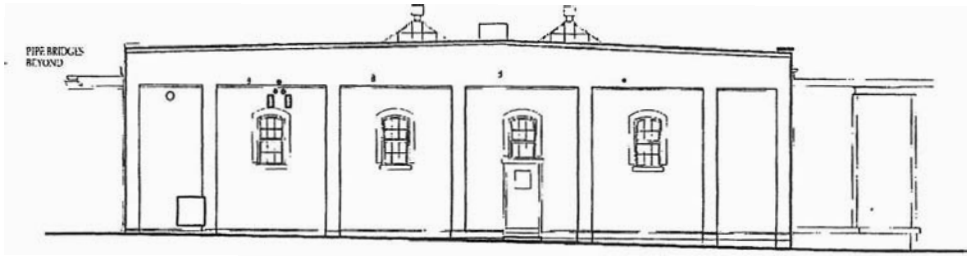




PAINT SHOP

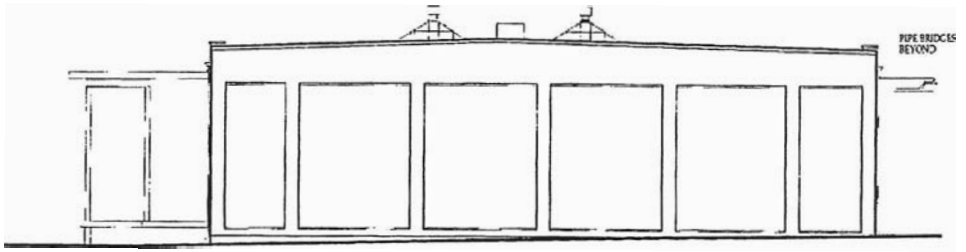
SECTIONS **A-A,** B-B

EXISTING



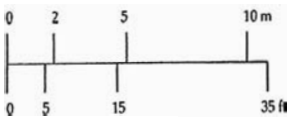
WEST ELEVATION

SOUTH ELEVATION



EAST ELEVATION

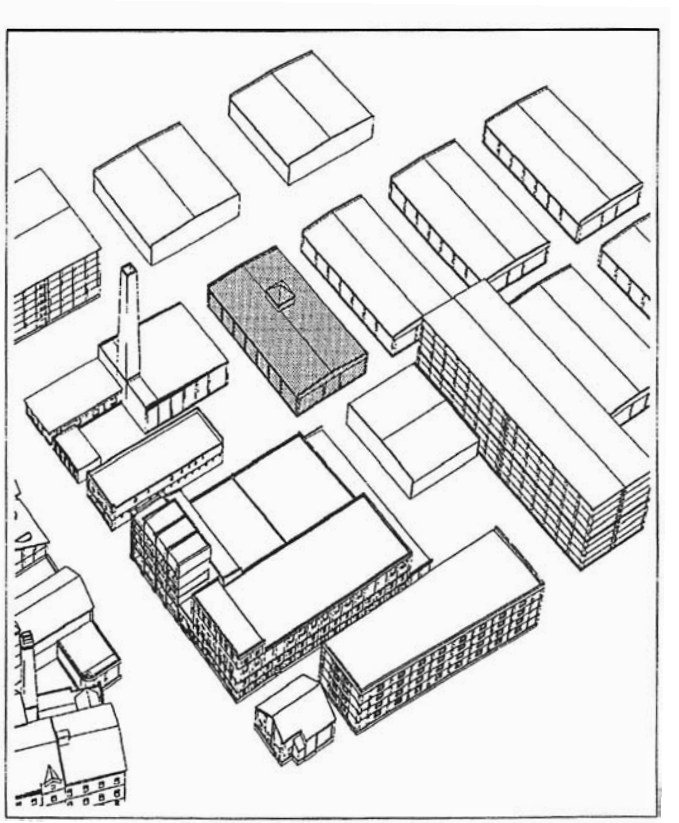
NORTH ELEVATION



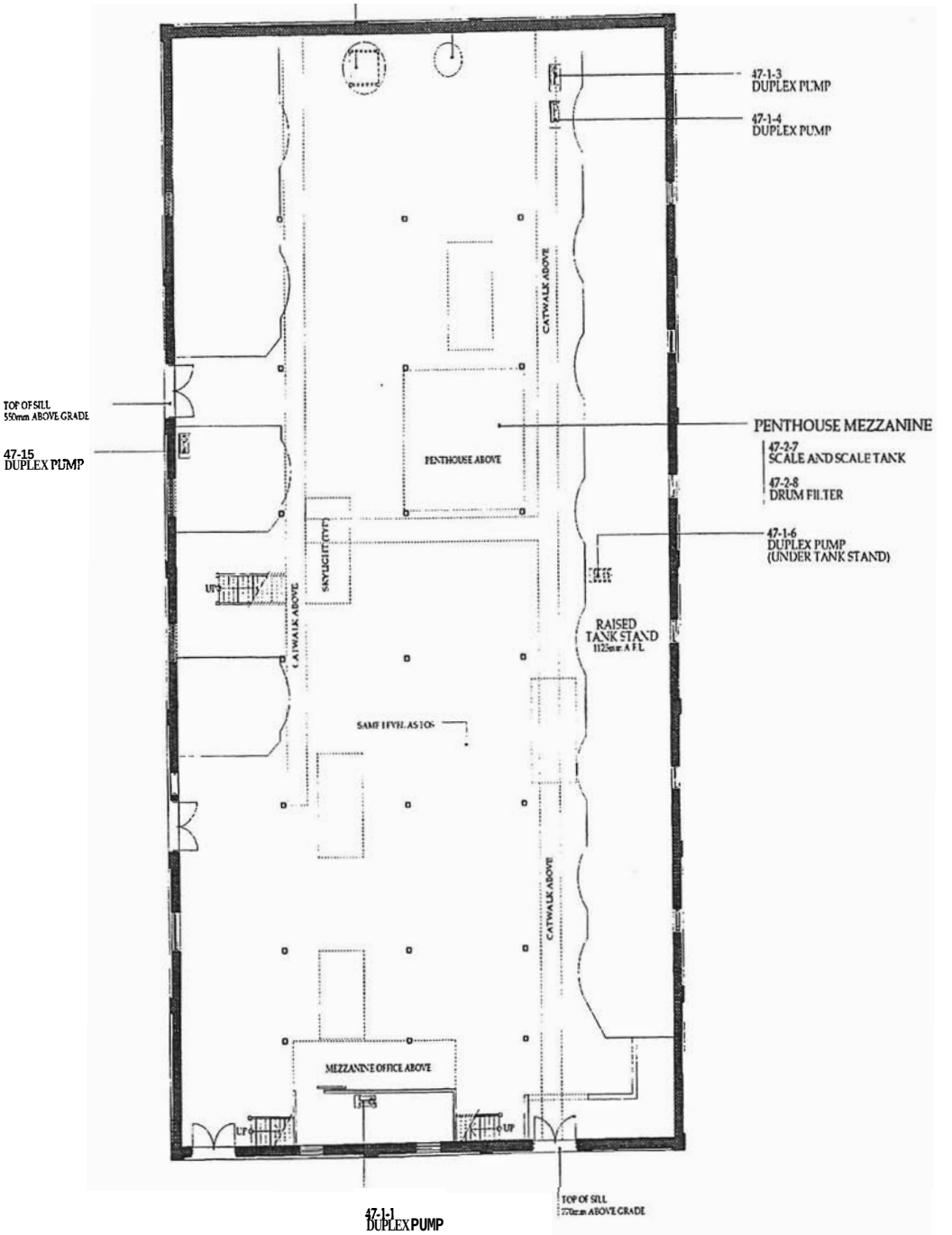
PAINT SHOP

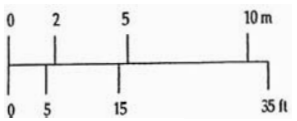
ELEVATIONS

EXISTING



8. DENATURING ROOM

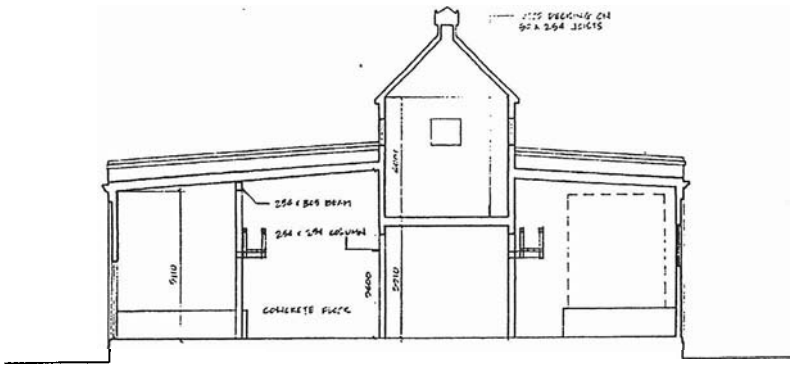




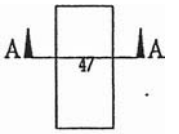
DENATURING ROOM

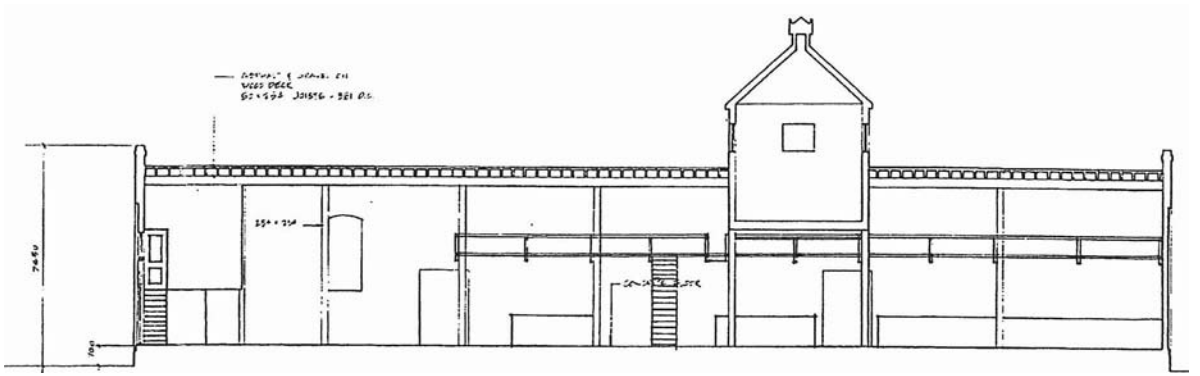
FLOOR PLAN

EXISTING

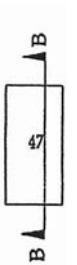


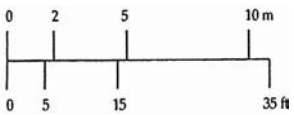
SECTION **A-A**





SECTION B-B



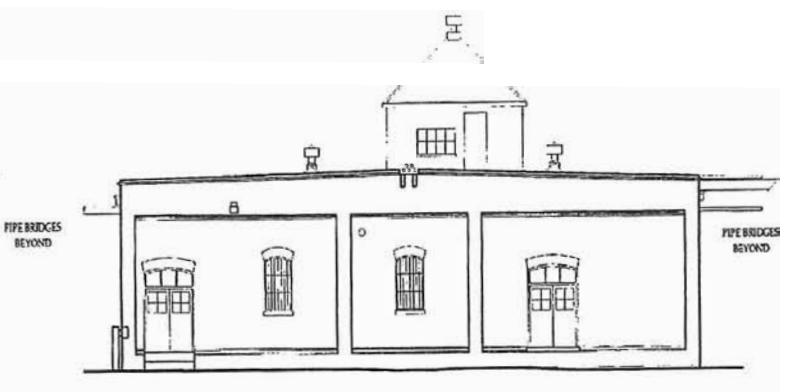


DENATURING ROOM

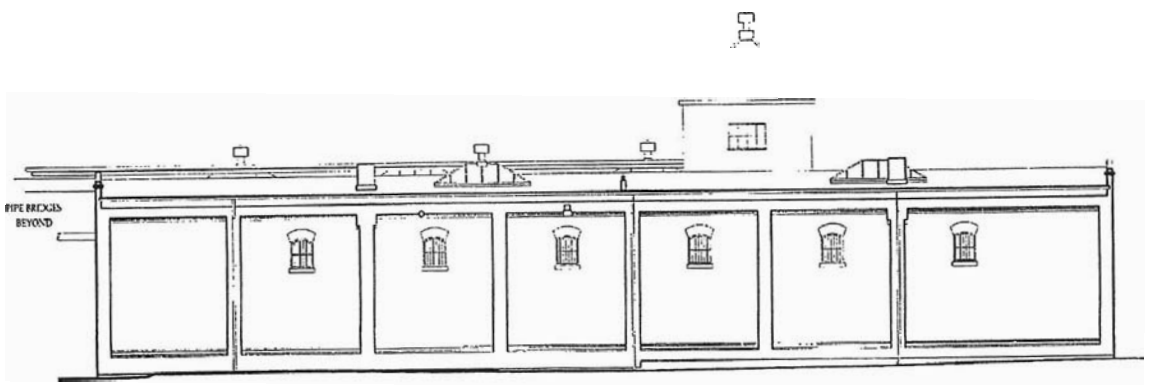
SECTIONS **A-A,** B-B

EXISTING

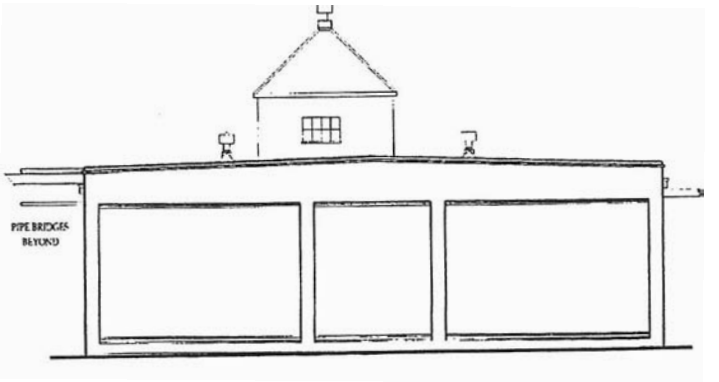
WEST ELEVATION



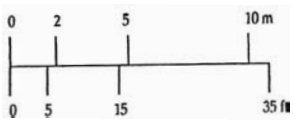
SOUTH ELEVATION



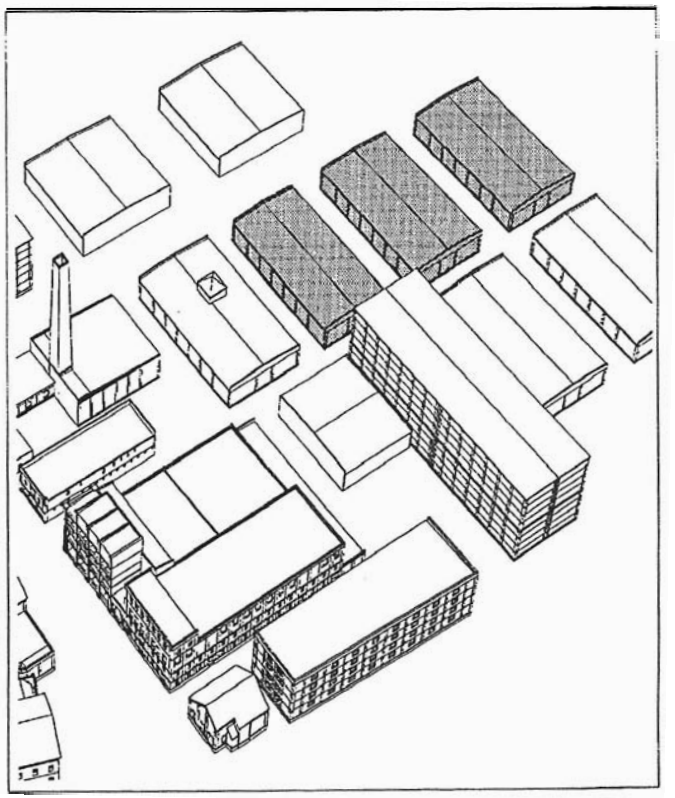
EAST ELEVATION



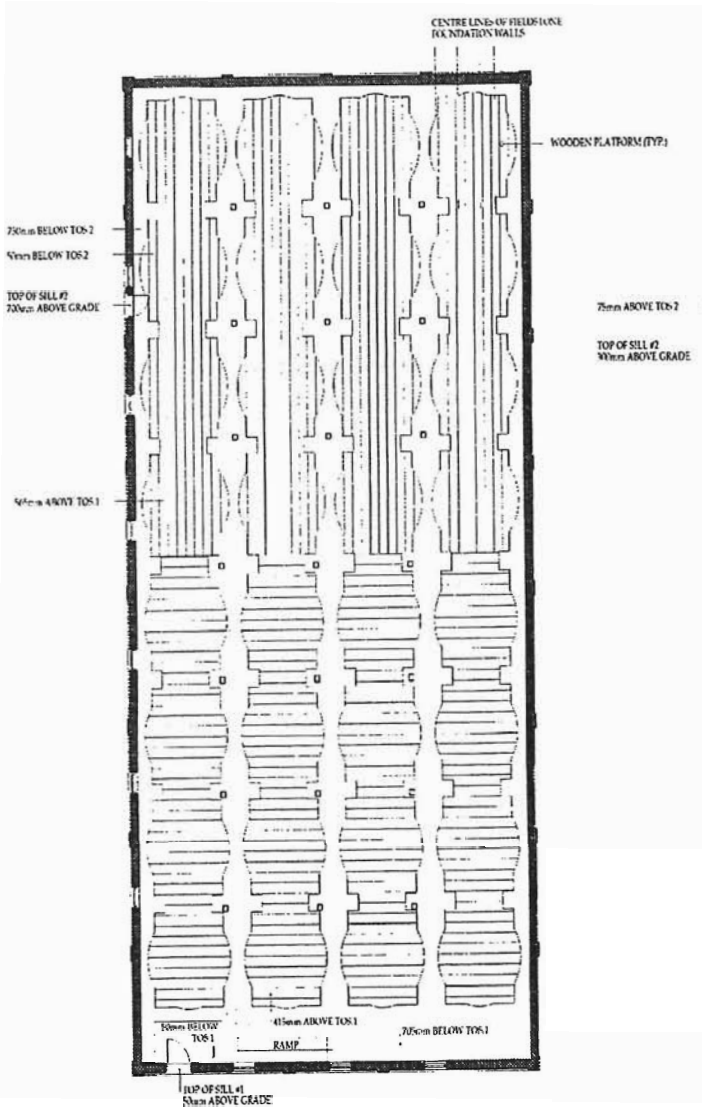
NORTH ELEVATION



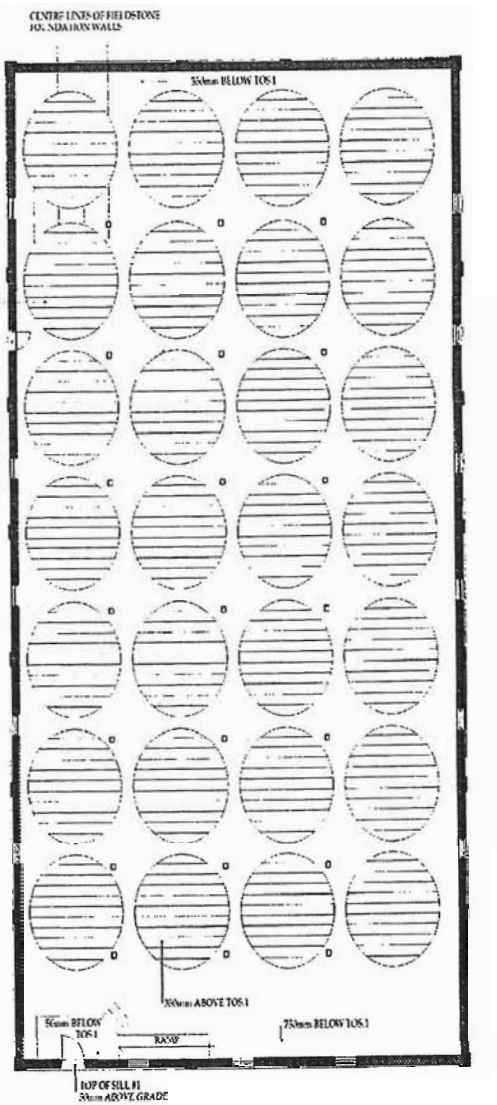
DENATURING ROOM
ELEVATIONS
EXISTING



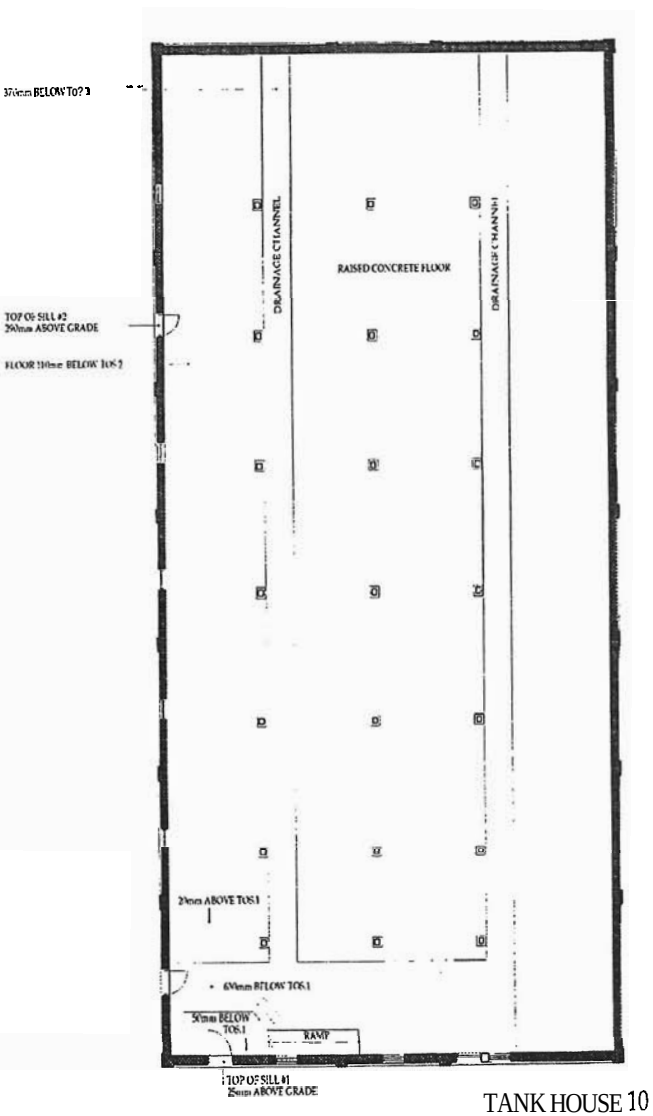
9. TANK HOUSES 4,9 AND 10



TANK HOUSE 4



TANK HOUSE 9

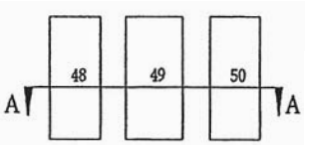


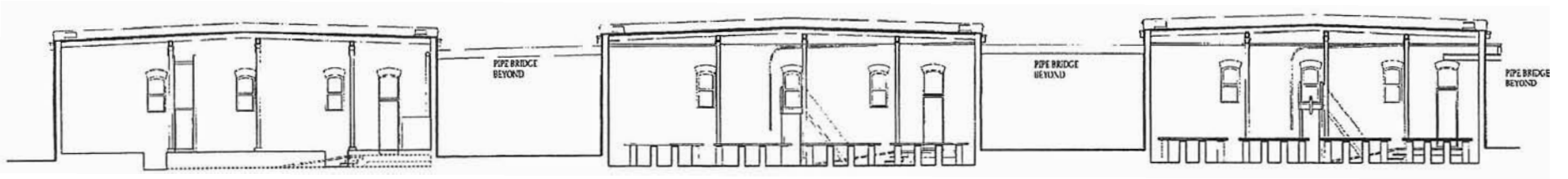
TANK HOUSE 10

TANK HOUSES 4,9 AND 10

FLOOR PLANS

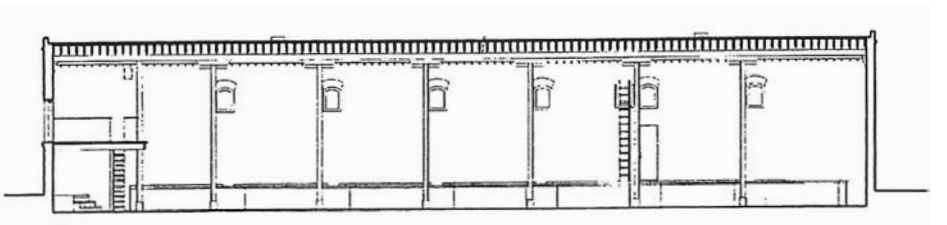
EXISTING





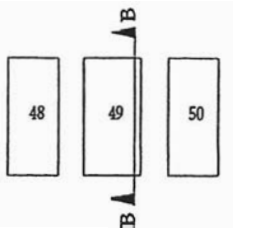
TANK HOUSE 10 TANK HOUSE 9 TANK HOUSE 4

SECTION **A-A**



TYPICAL LONGITUDINAL SECTION
TANK HOUSE 9

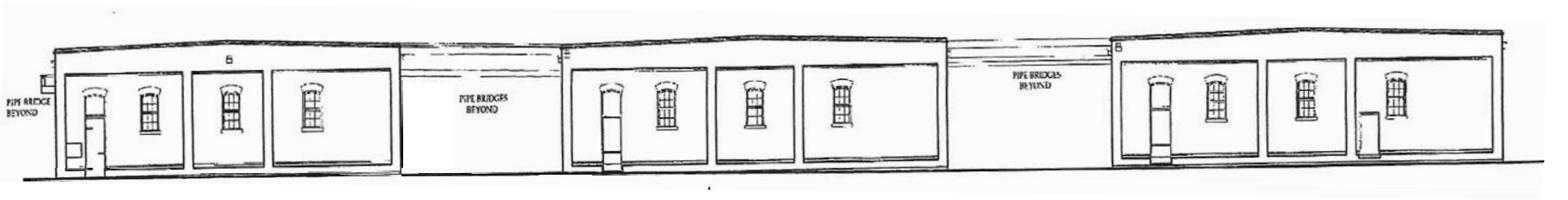
SECTION B-B



TANK HOUSES 4,9 **AND** 10

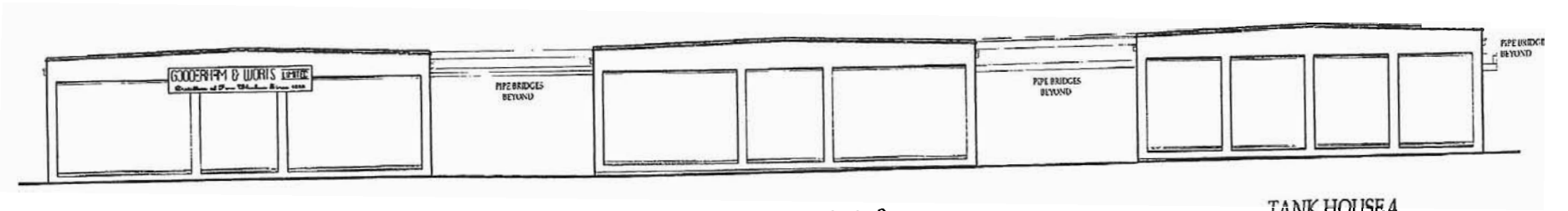
SECTIONS A-A, B-B

EXISTING



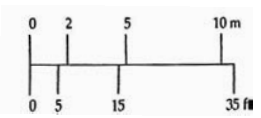
TANK HOUSE 4 TANK HOUSE 9 TANK HOUSE 10

SOUTH ELEVATION



TANK HOUSE 10 TANK HOUSE 9 TANK HOUSE 4

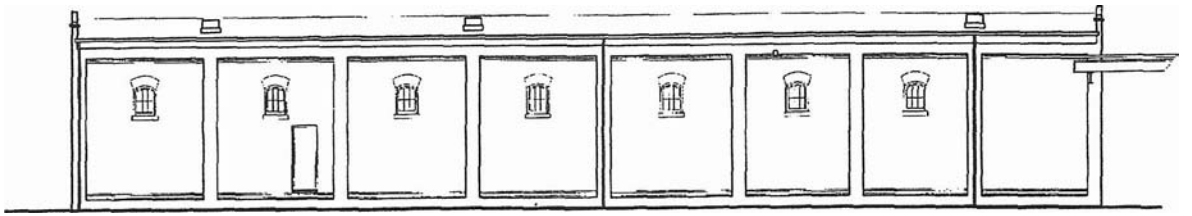
NORTH ELEVATION



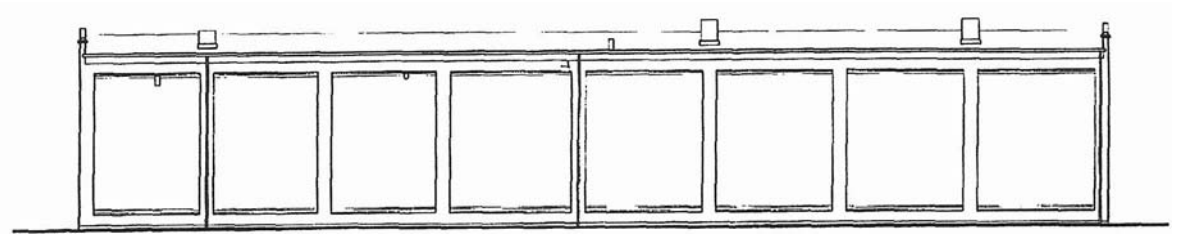
TANK HOUSES 4,9 AND 10

NORTH, SOUTH ELEVATIONS

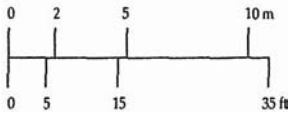
EXISTING



WEST **ELEVATION**



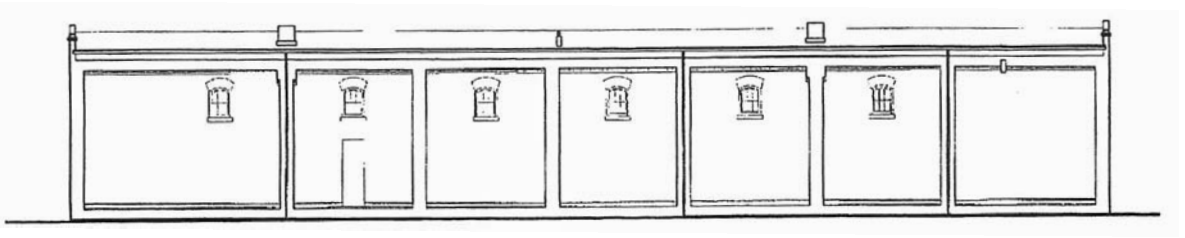
EAST ELEVATION



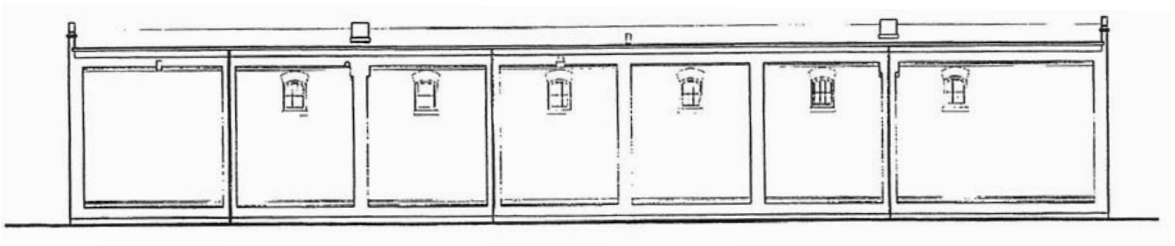
TANK HOUSE **4**

WEST, EAST ELEVATIONS

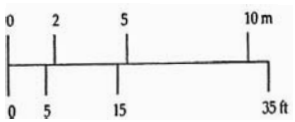
EXISTING



WEST ELEVATION



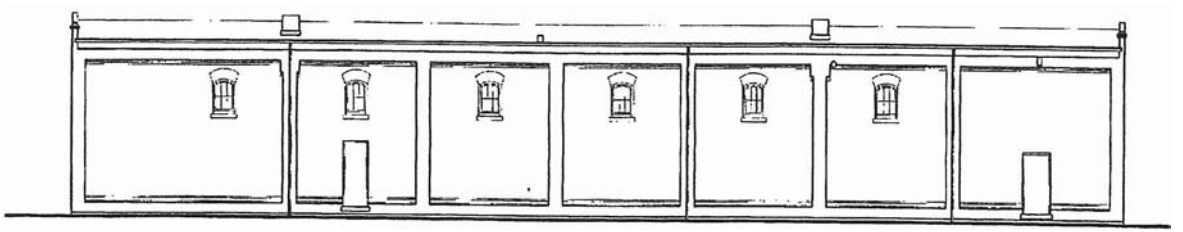
EAST ELEVATION



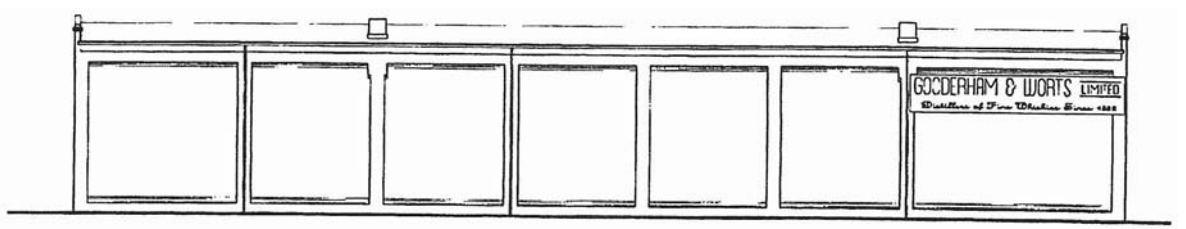
TANK **HOUSE** 9

WEST, EAST ELEVATIONS

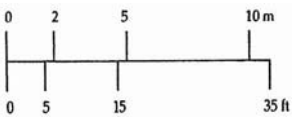
EXISTING



WEST ELEVATION



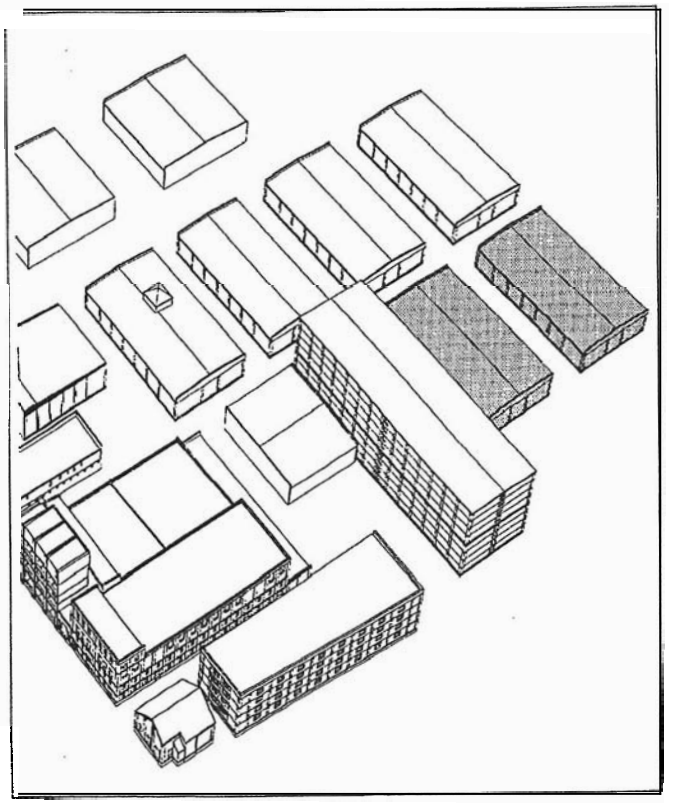
EAST ELEVATION



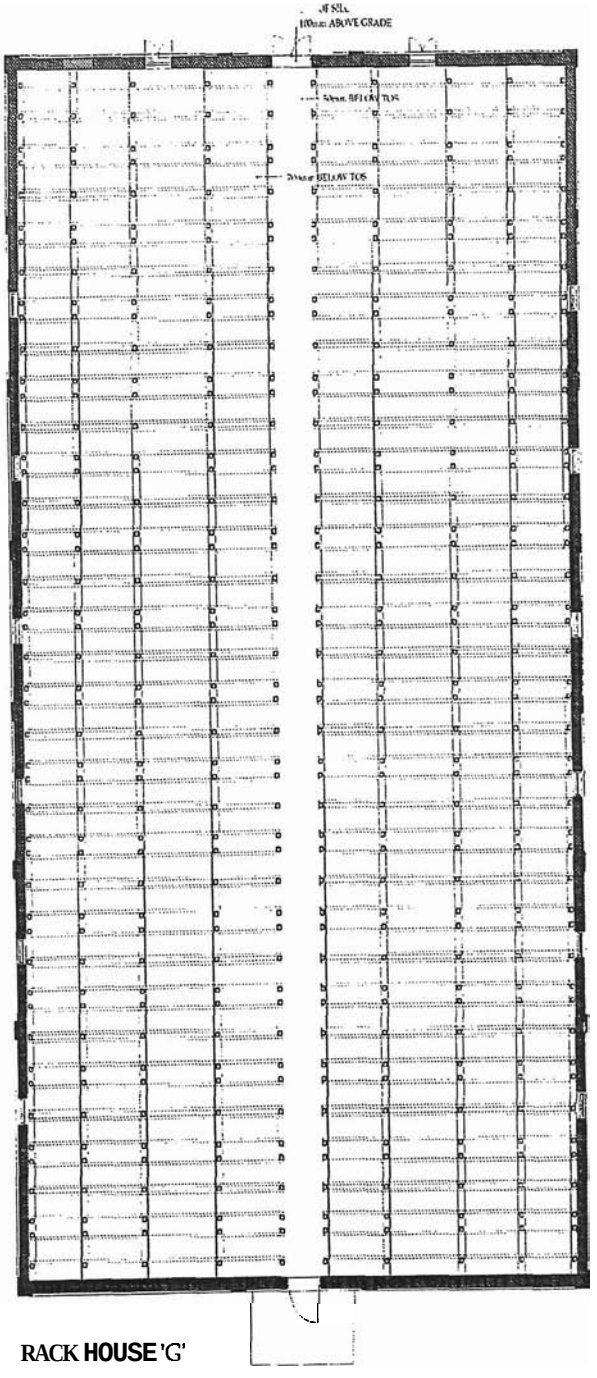
TANK **HOUSE 10**

WEST, EAST ELEVATIONS

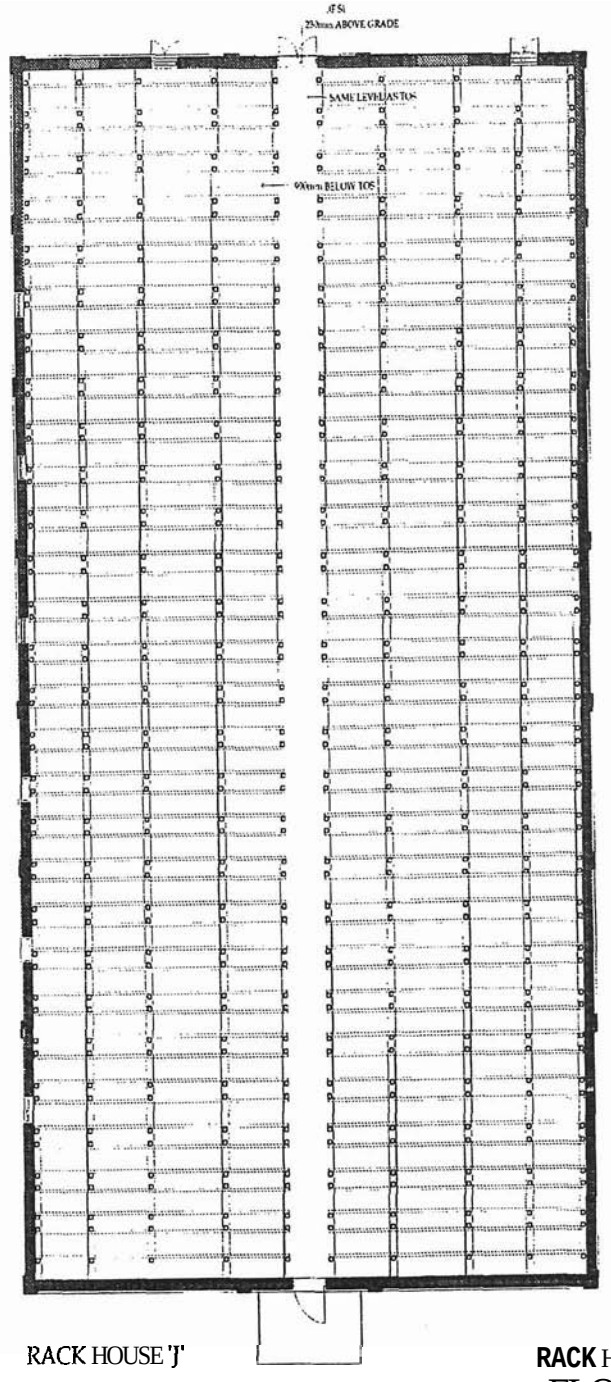
EXISTING



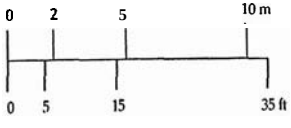
10. RACK HOUSES 'G' AND 'J'



RACK **HOUSE** 'G'



RACK HOUSE 'J'

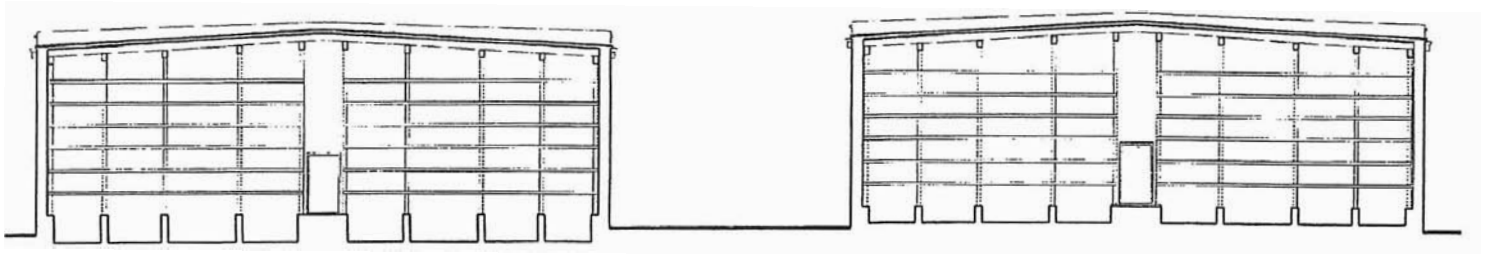


64 65

RACK HOUSES **'G' AND 'J'**

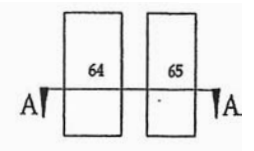
FLOOR PLANS

EXISTING

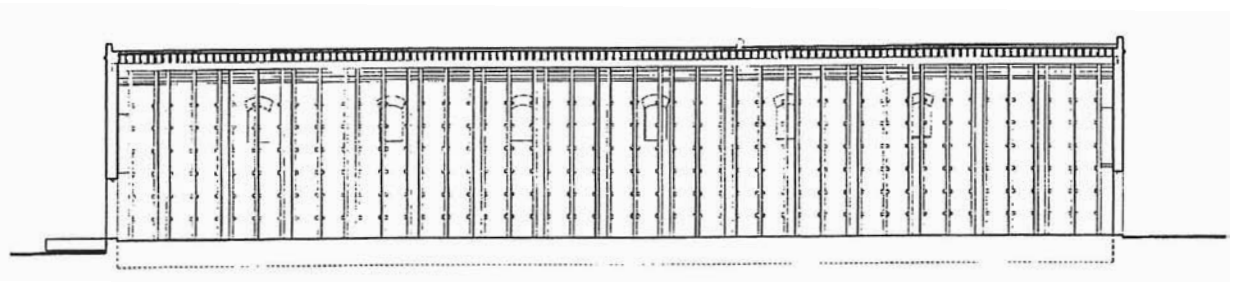


RACK HOUSE 'J'

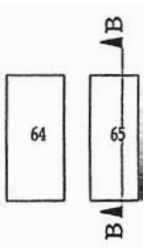
RACK HOUSE 'G'



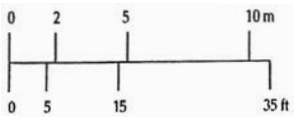
SECTION **A-A**



TYPICAL LONGITUDINAL SECTION
RACK HOUSE 'J'



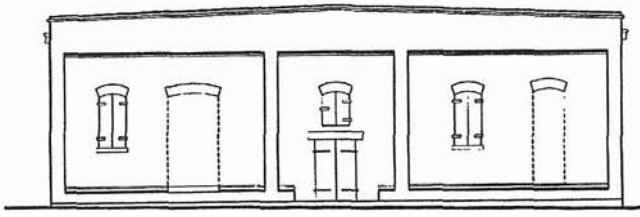
SECTION B-B



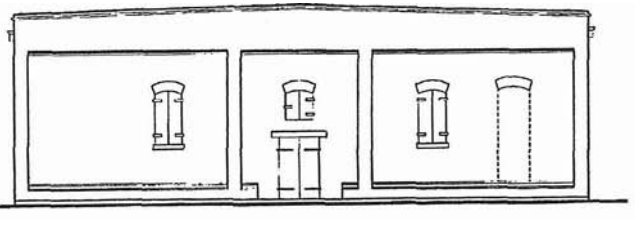
RACK HOUSES 'G' AND 'J'

SECTIONS A-A, B-B

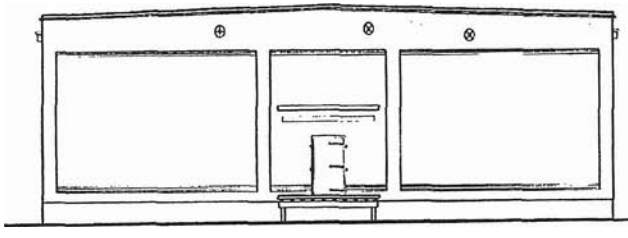
EXISTING



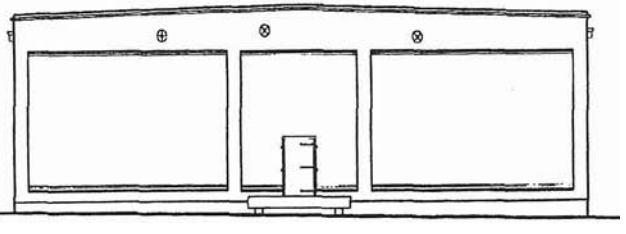
NORTH ELEVATION,RACK HOUSE 'J'



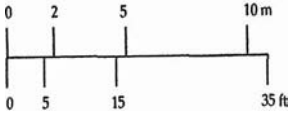
NORTH ELEVATION,RACK HOUSE 'G'



SOUTH ELEVATION,RACK HOUSE 'G'



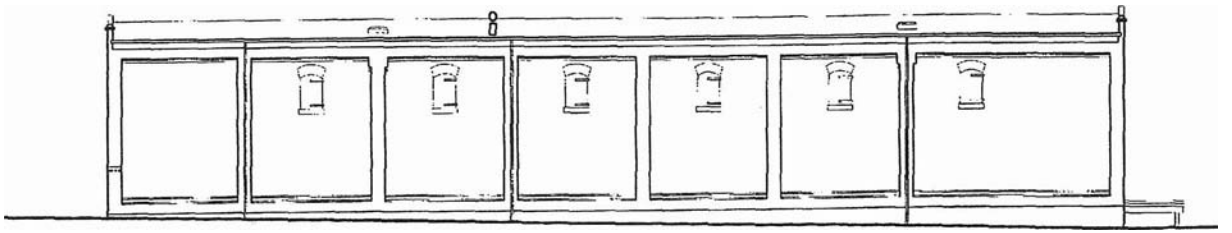
SOUTH ELEVATION,RACK HOUSE 'J'



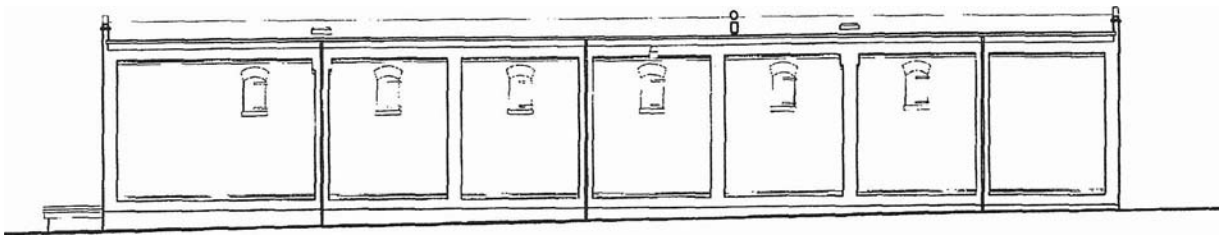
RACK HOUSES 'G' AND 'J'

NORTH, SOUTH ELEVATIONS

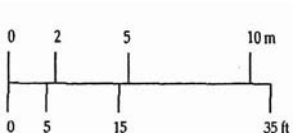
EXISTING



WEST **ELEVATION**



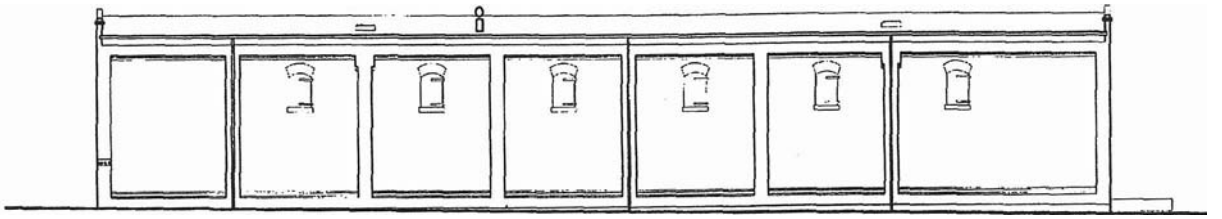
EAST ELEVATION



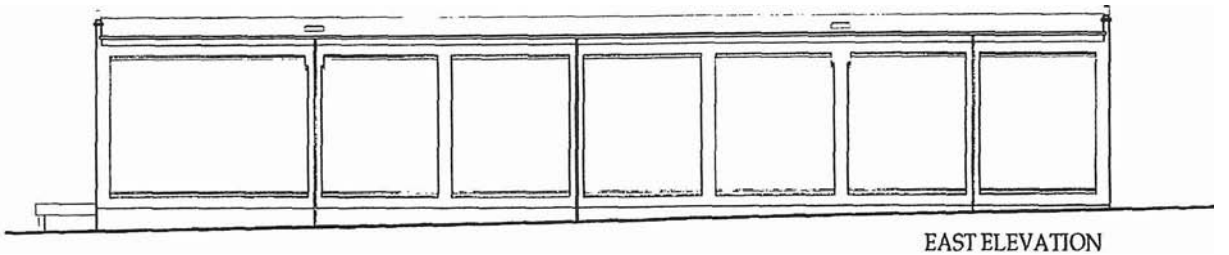
RACK HOUSE *'G'*

WEST, EAST ELEVATIONS

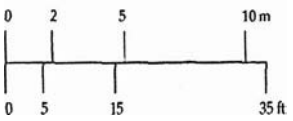
EXISTING



WEST ELEVATION

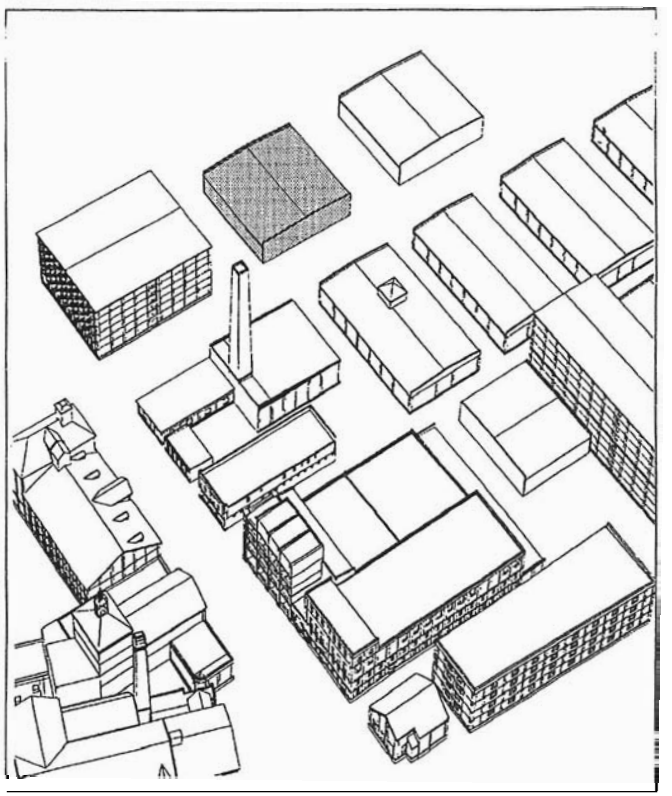


EAST ELEVATION

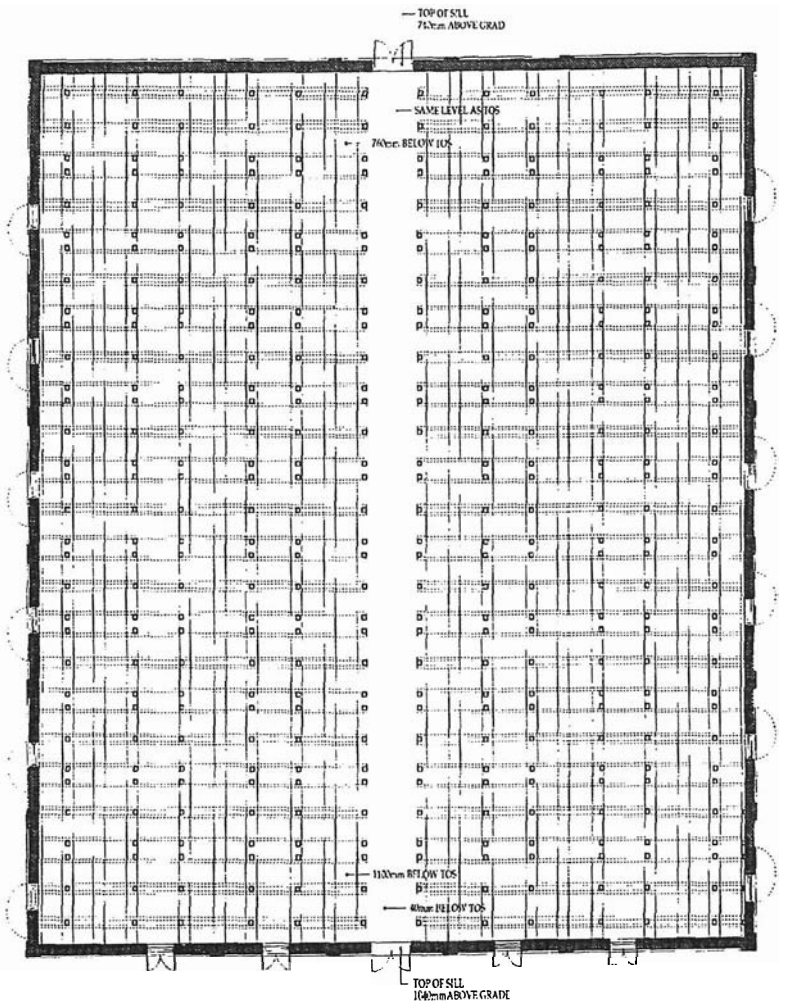


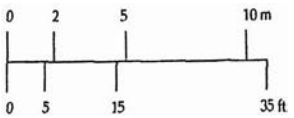
RACK HOUSE 'J'

WEST, EAST ELEVATIONS EXISTING



11. RACK HOUSE 'I'

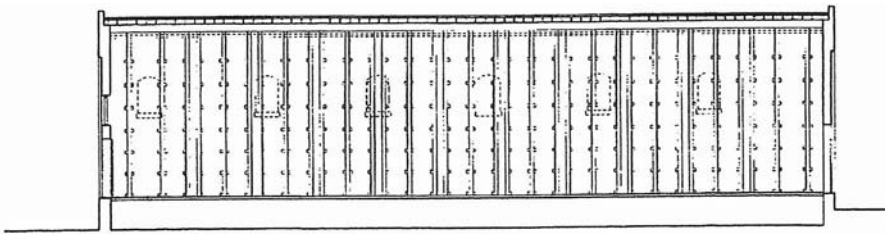




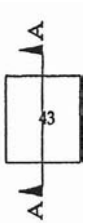
RACK HOUSE 'T'

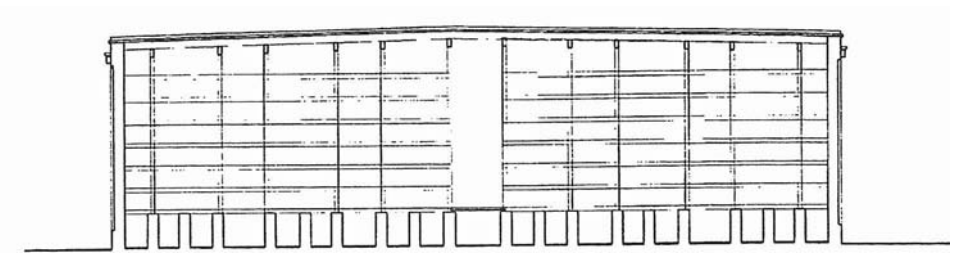
FLOOR PLAN

EXISTING

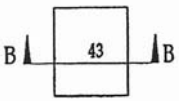


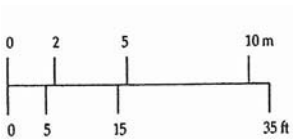
SECTION **A-A**





SECTION **B-B**

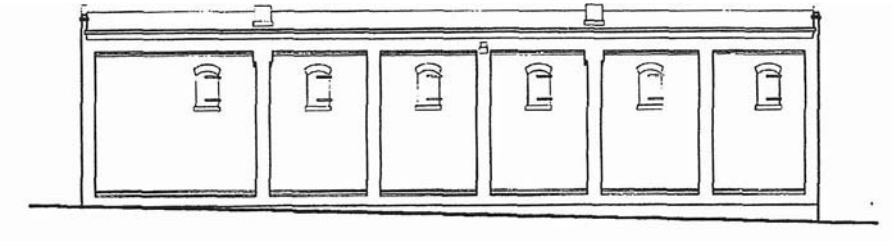




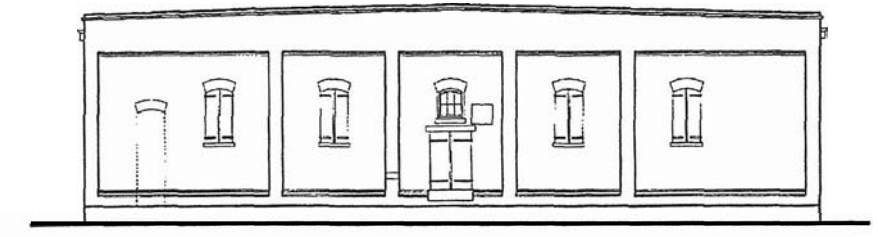
RACK HOUSE **T**

SECTIONS **A-A,** B-B

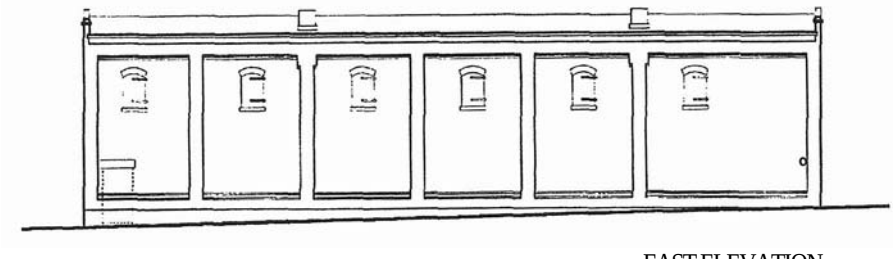
EXISTING



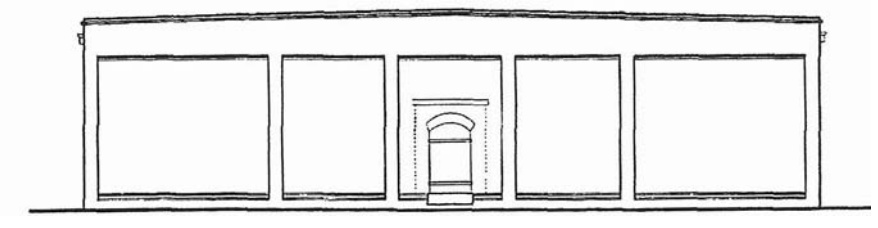
WEST ELEVATION



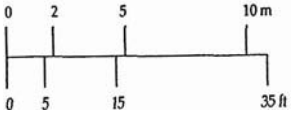
SOUTH ELEVATION



EAST ELEVATION



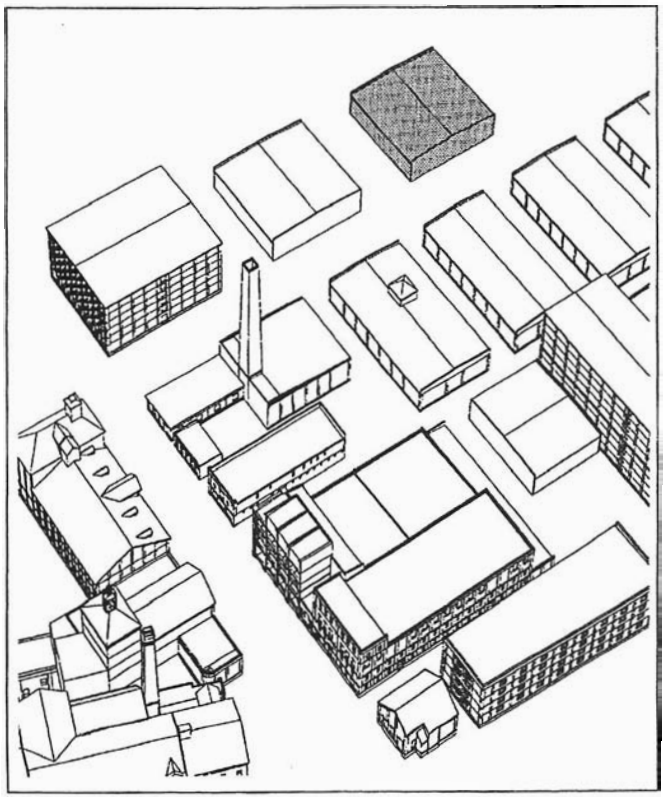
NORTH ELEVATION



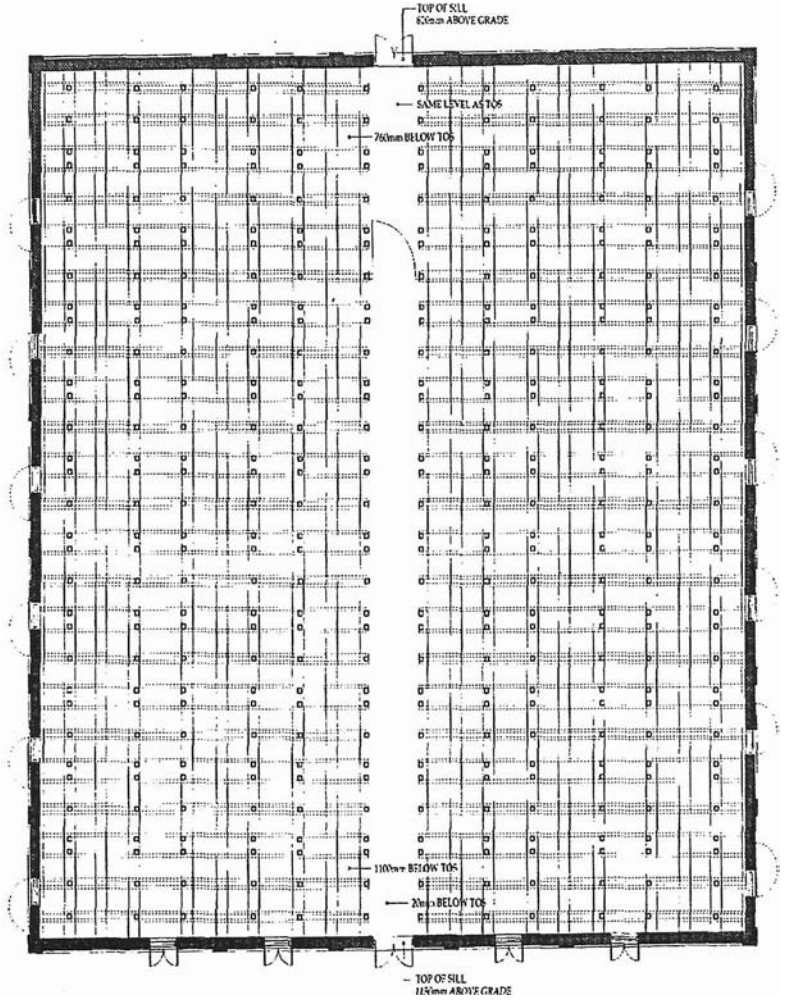
RACK HOUSE T

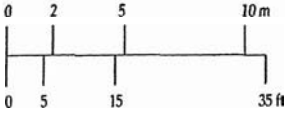
ELEVATIONS

EXISTING



1.2. RACK HOUSE 'H'

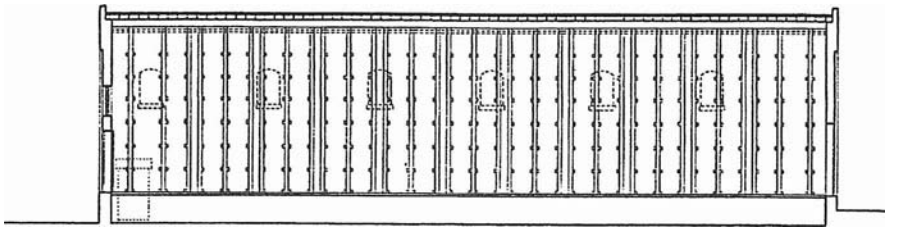




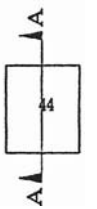
RACK HOUSE 'H'

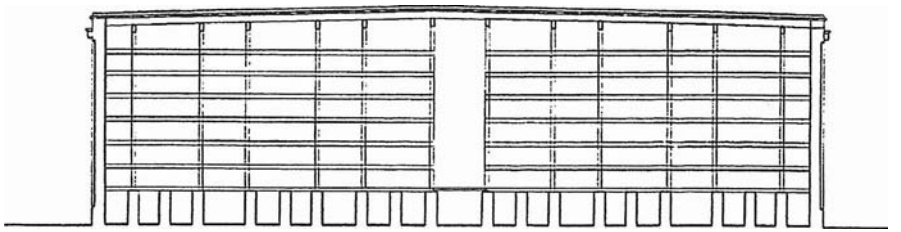
FLOOR **PLAN**

EXISTING

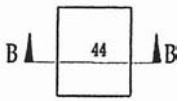


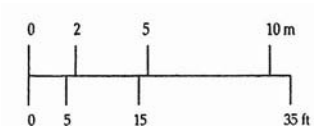
SECTION A-A





SECTION **B-B**

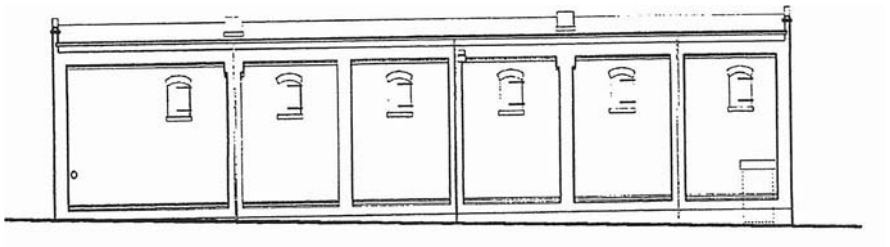




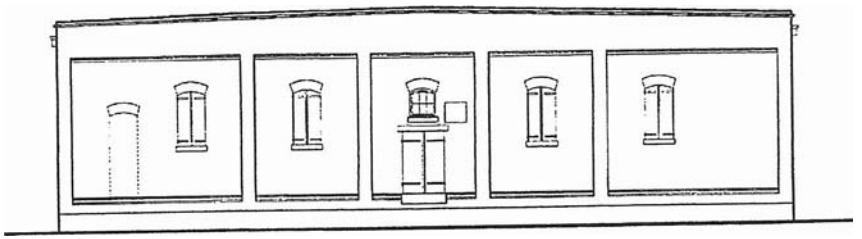
RACK HOUSE 'H'

SECTIONS A-A, B-B

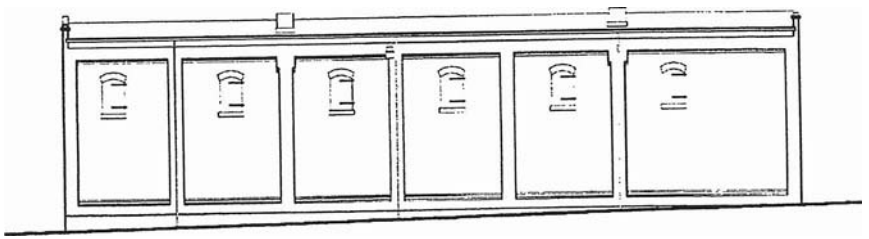
EXISTING



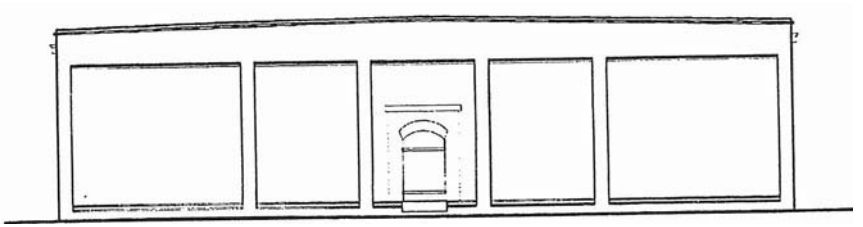
WEST ELEVATION



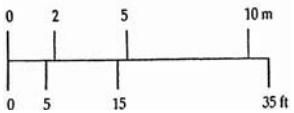
SOUTH ELEVATION



EAST ELEVATION



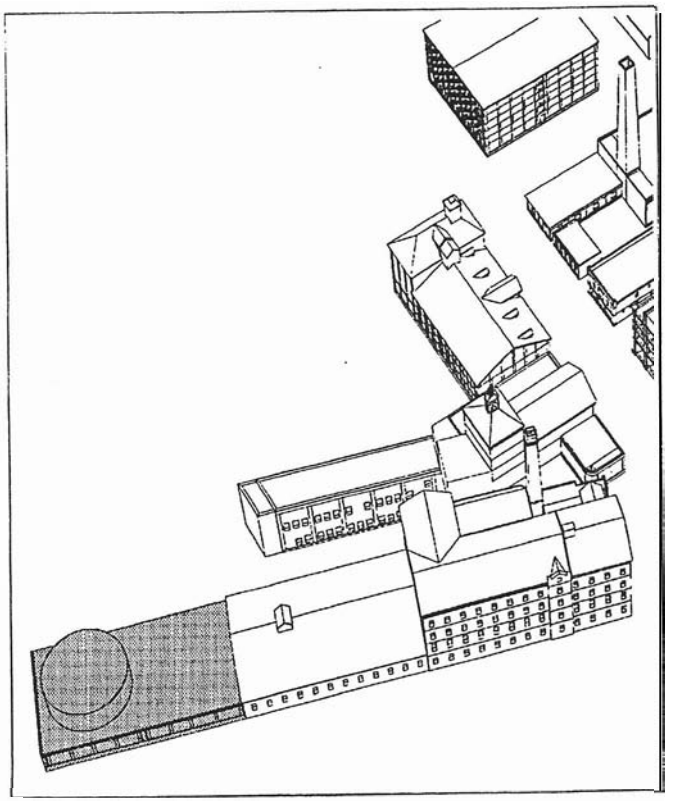
NORTH ELEVATION



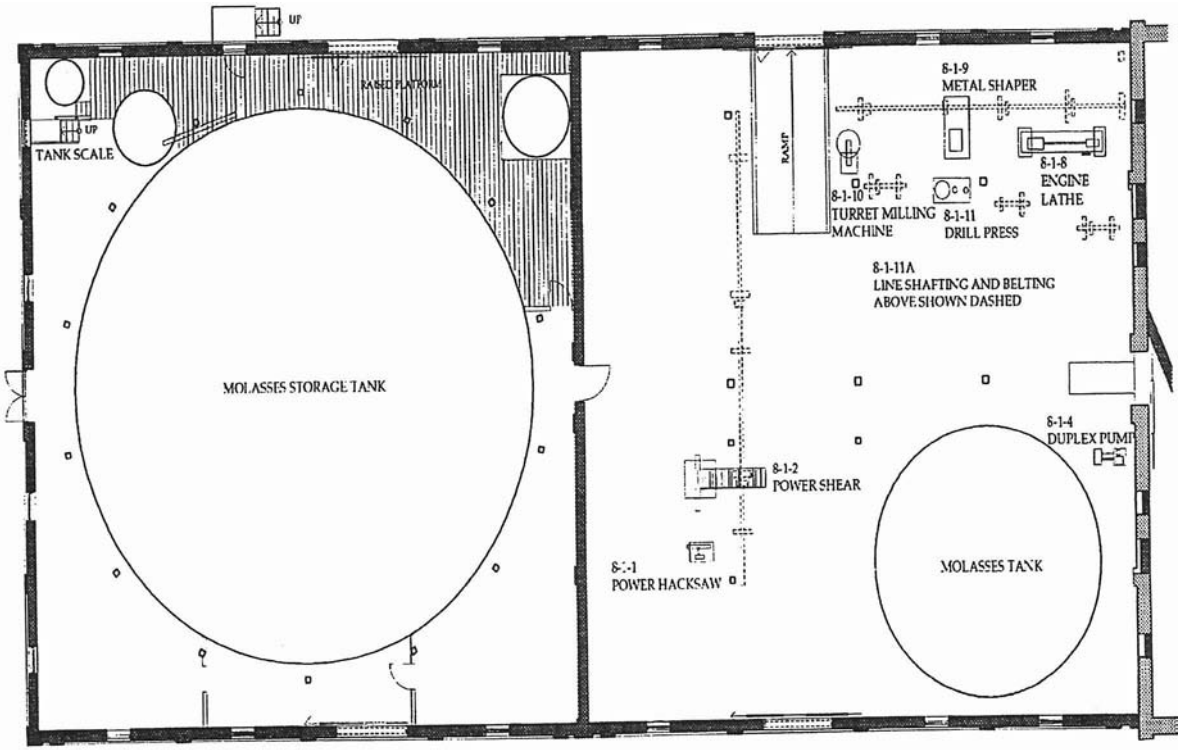
RACK HOUSE 'H'

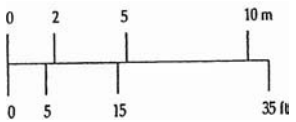
ELEVATIONS

EXISTING



1.3. MACHINE SHOP

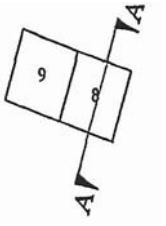


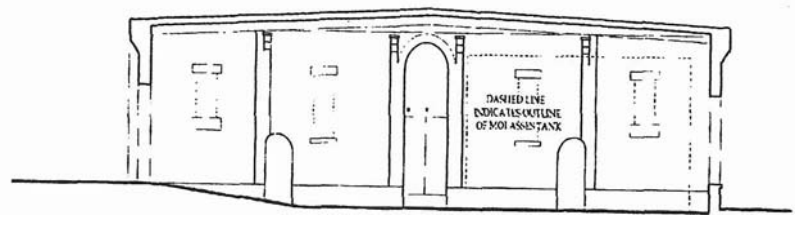


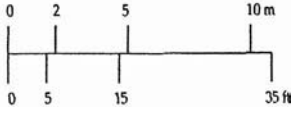
MACHINESHOP

FLOOR PLAN

EXISTING





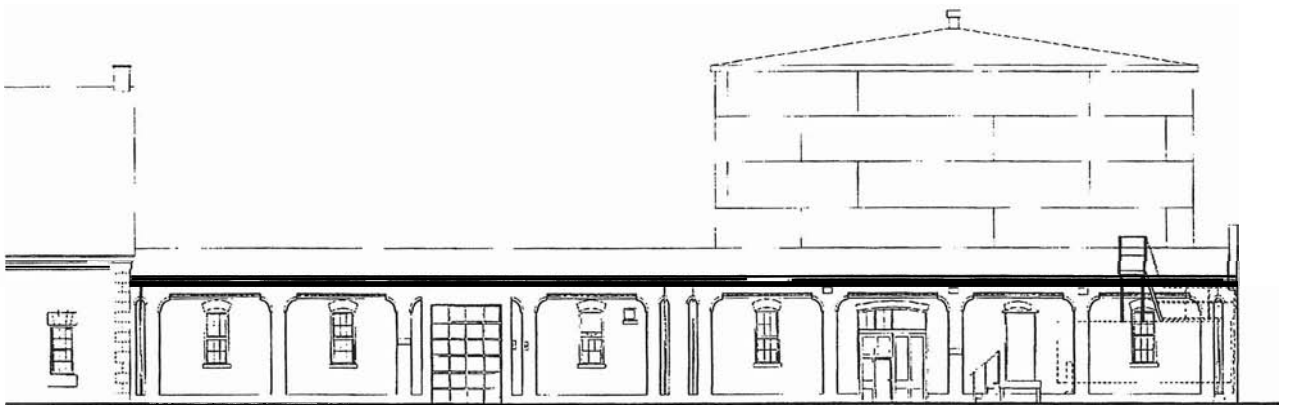


MACHINE SHOP

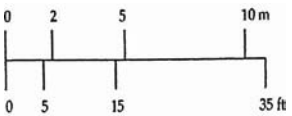
SECTION A-A

EXISTING

SOUTH ELEVATION



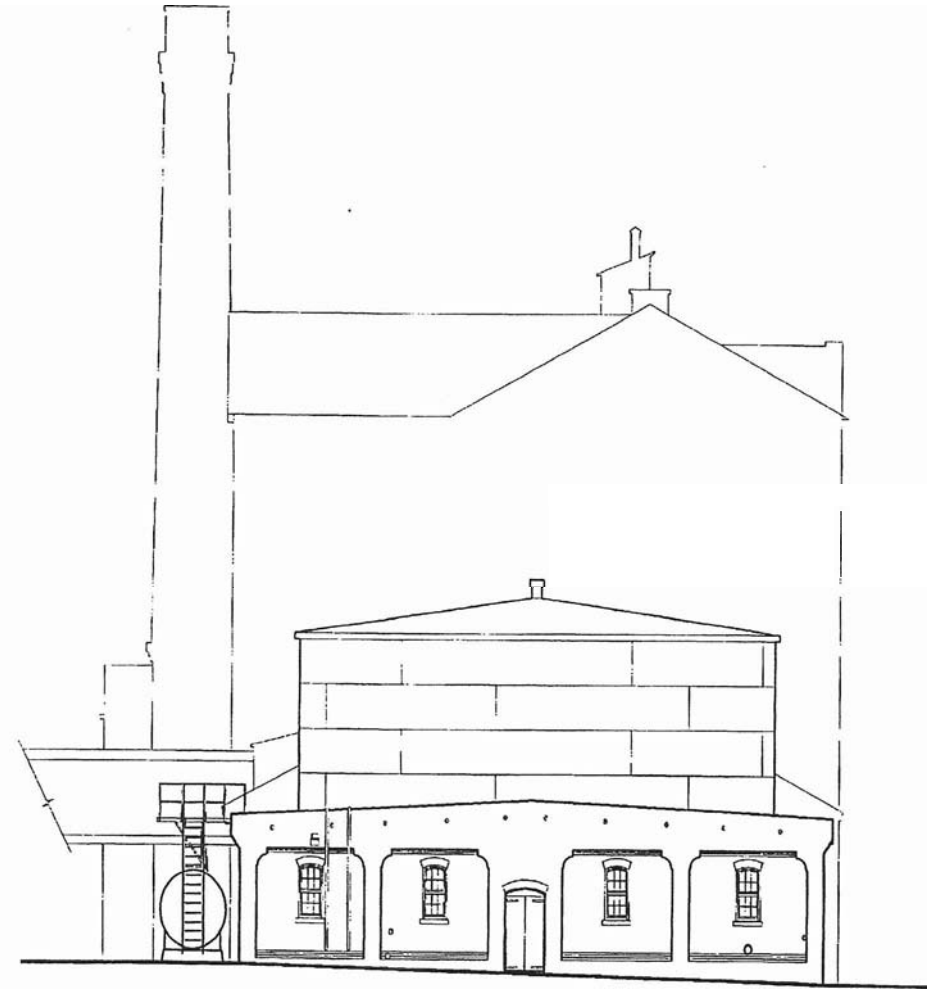
NORTH ELEVATION

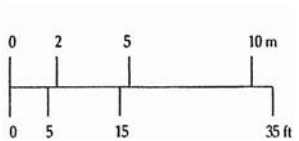


MACHINE SHOP

SOUTH, NORTH ELEVATIONS

EXISTING

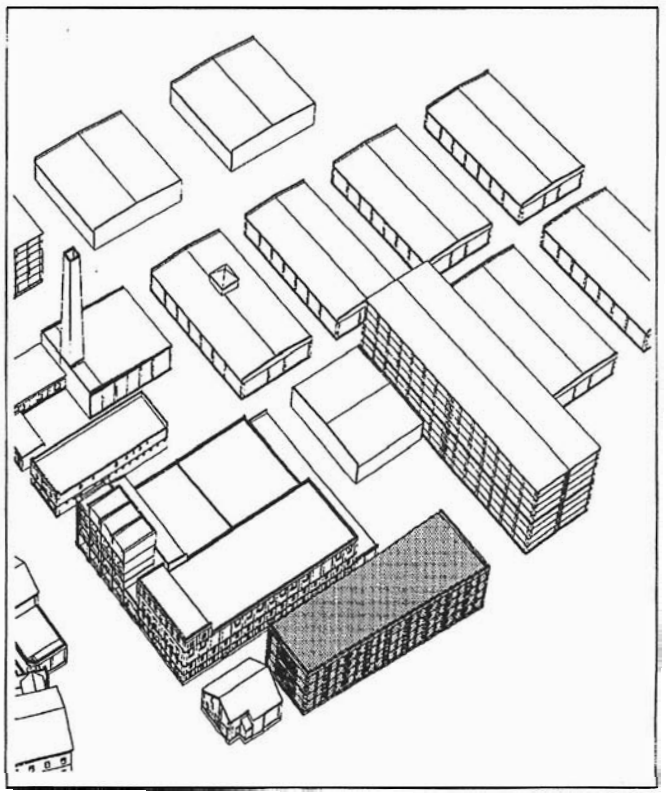




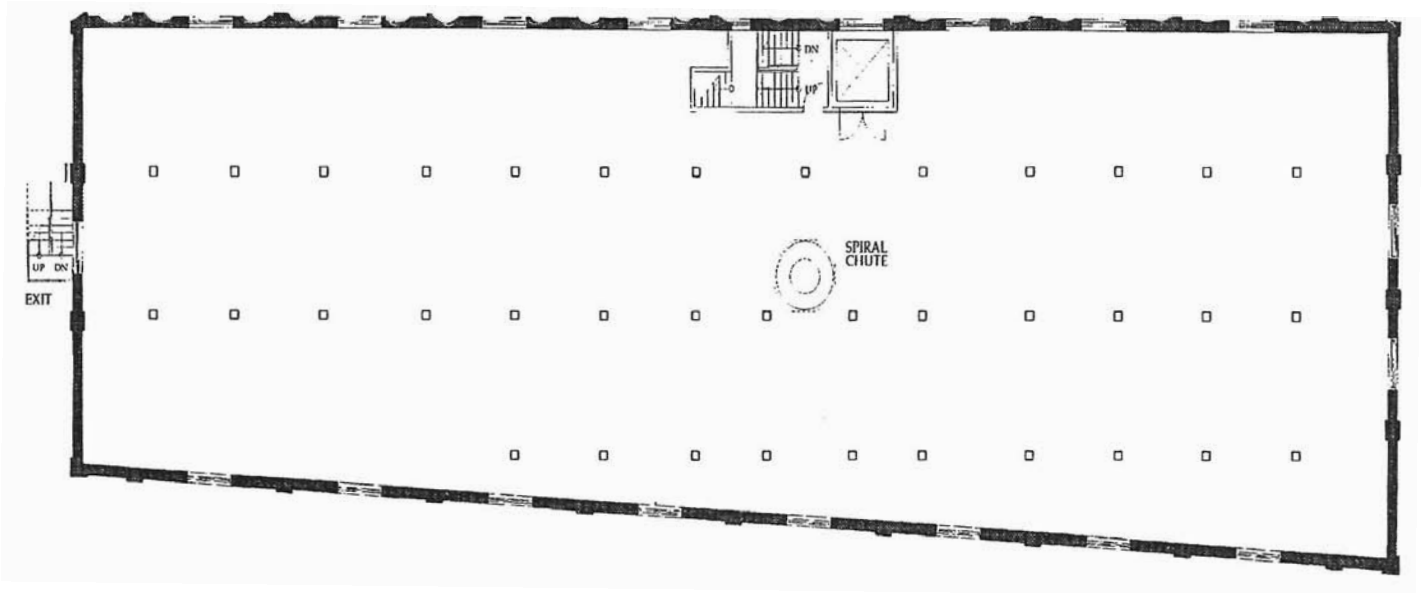
MACHINE **SHOP**

WEST ELEVATION

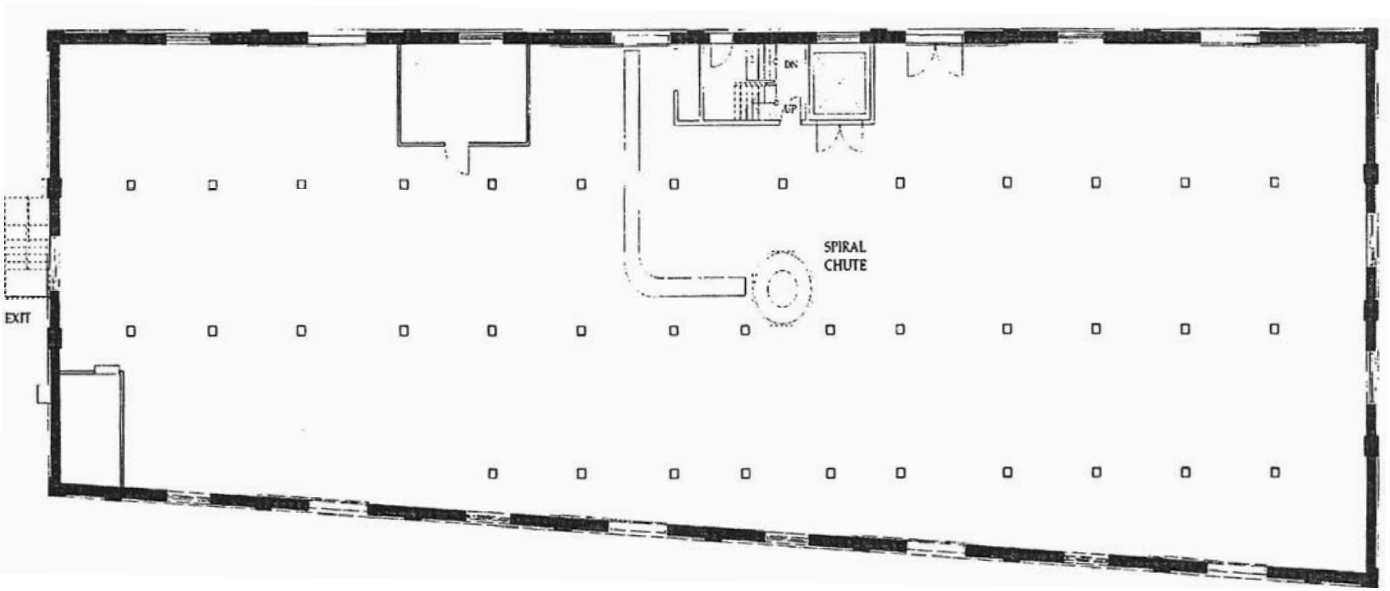
EXISTING



14. CASE GOODS WAREHOUSE



2ND FLOOR **PLAN**

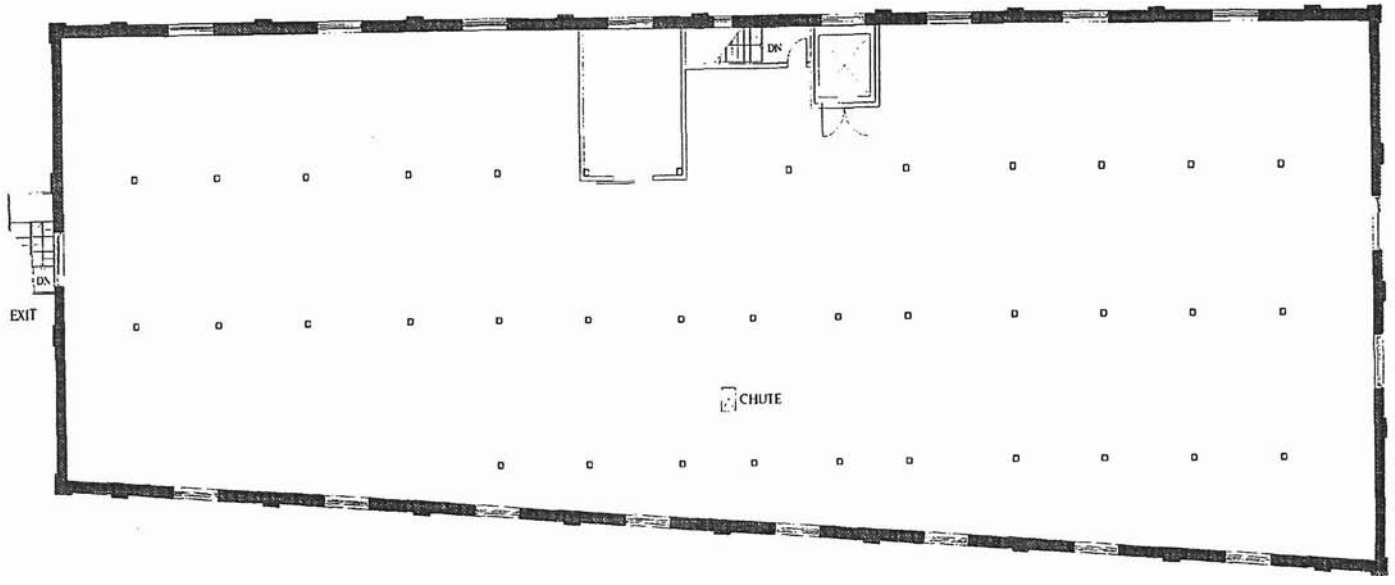


GROUND FLOOR **PLAN**

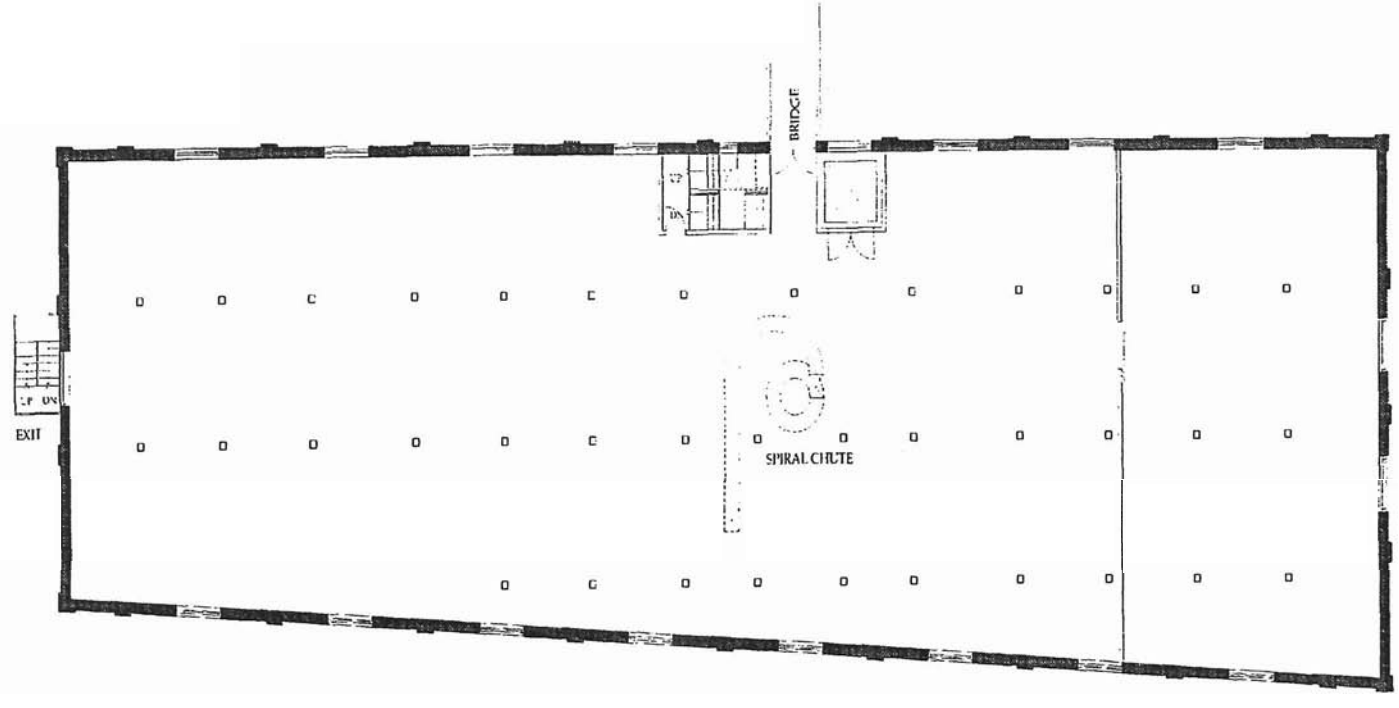
CASE GOODS **WAREHOUSE**

GROUND, 2ND FLOOR PLANS

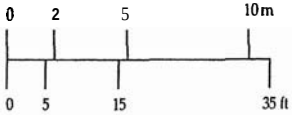
EXISTING



4TH FLOOR PLAN



3RD FLOOR **PLAN**



CASE GOODS **WAREHOUSE**

3RD, 4TH FLOOR PLANS

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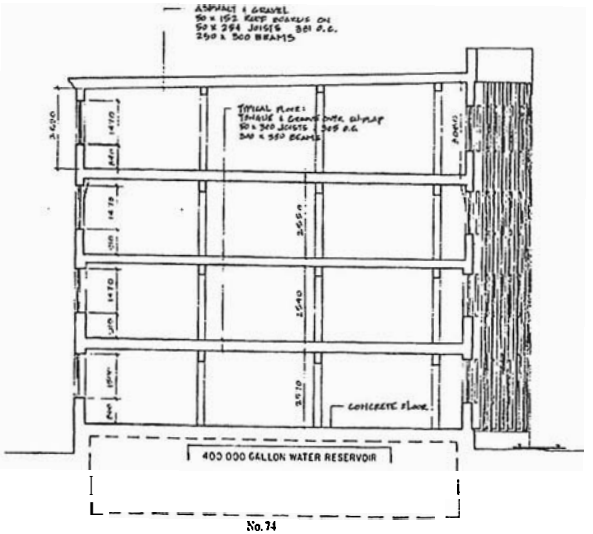
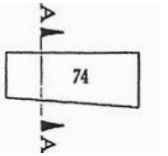
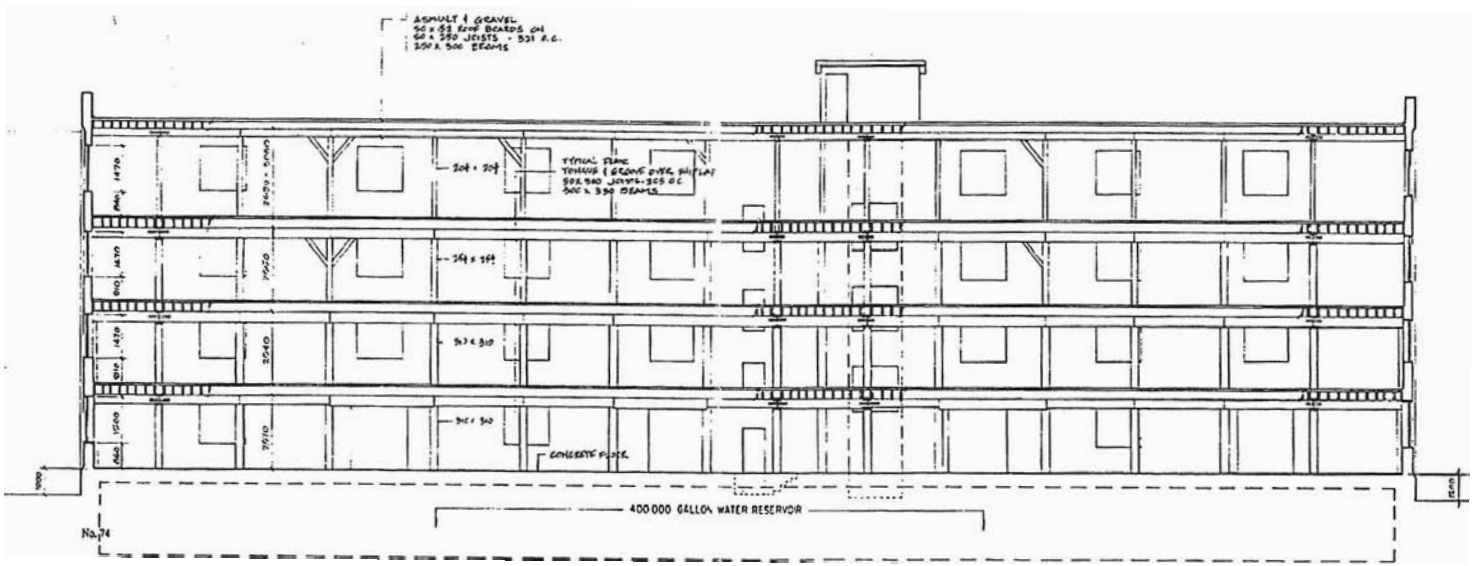


SECTION A-A





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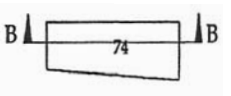

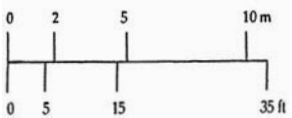

CASE GOODS WAREHOUSE

SECTIONS A-A, B-B

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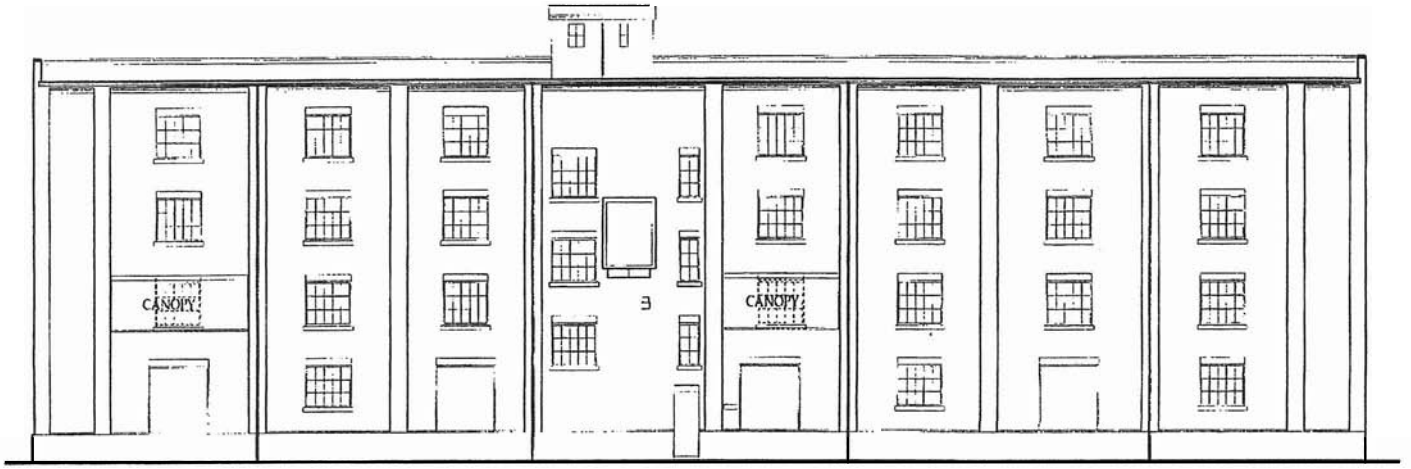

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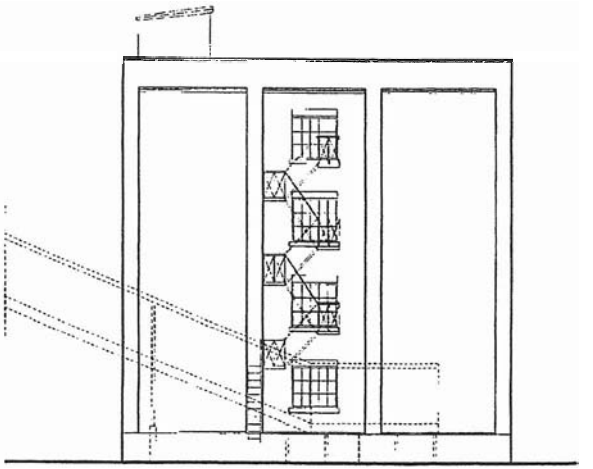

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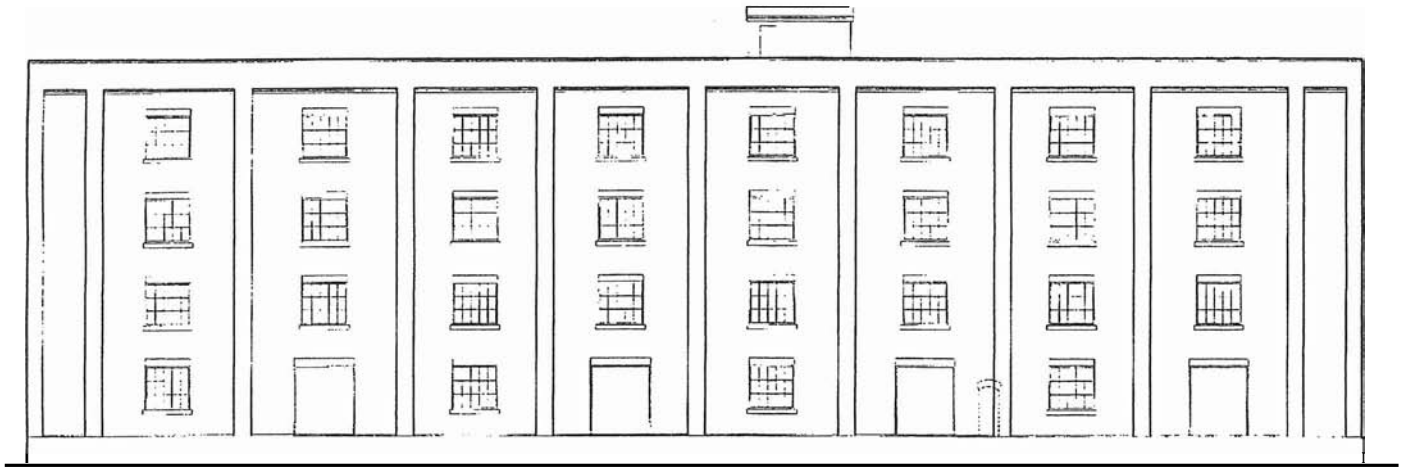

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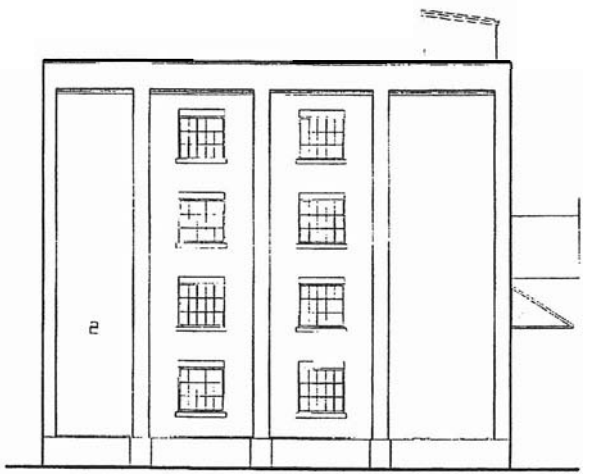
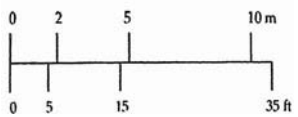


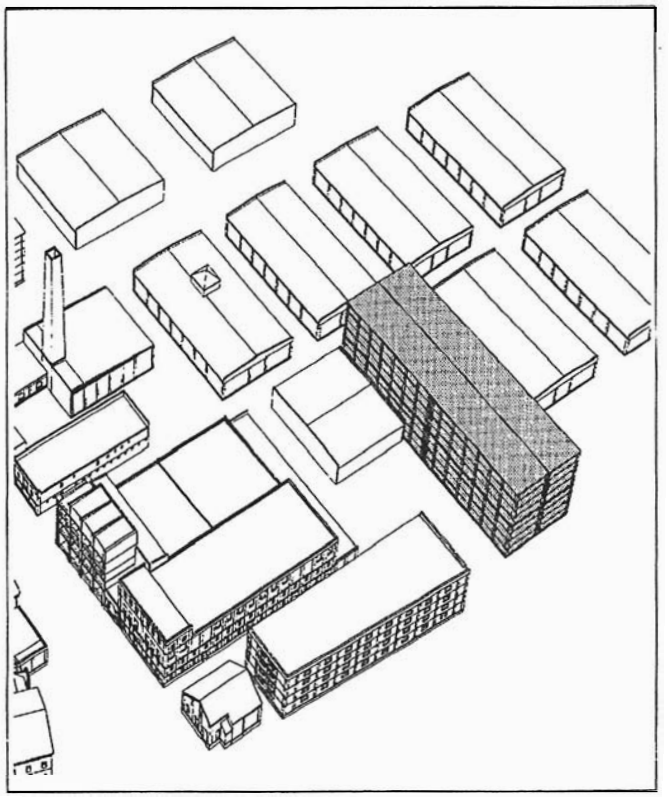
EAST ELEVATION



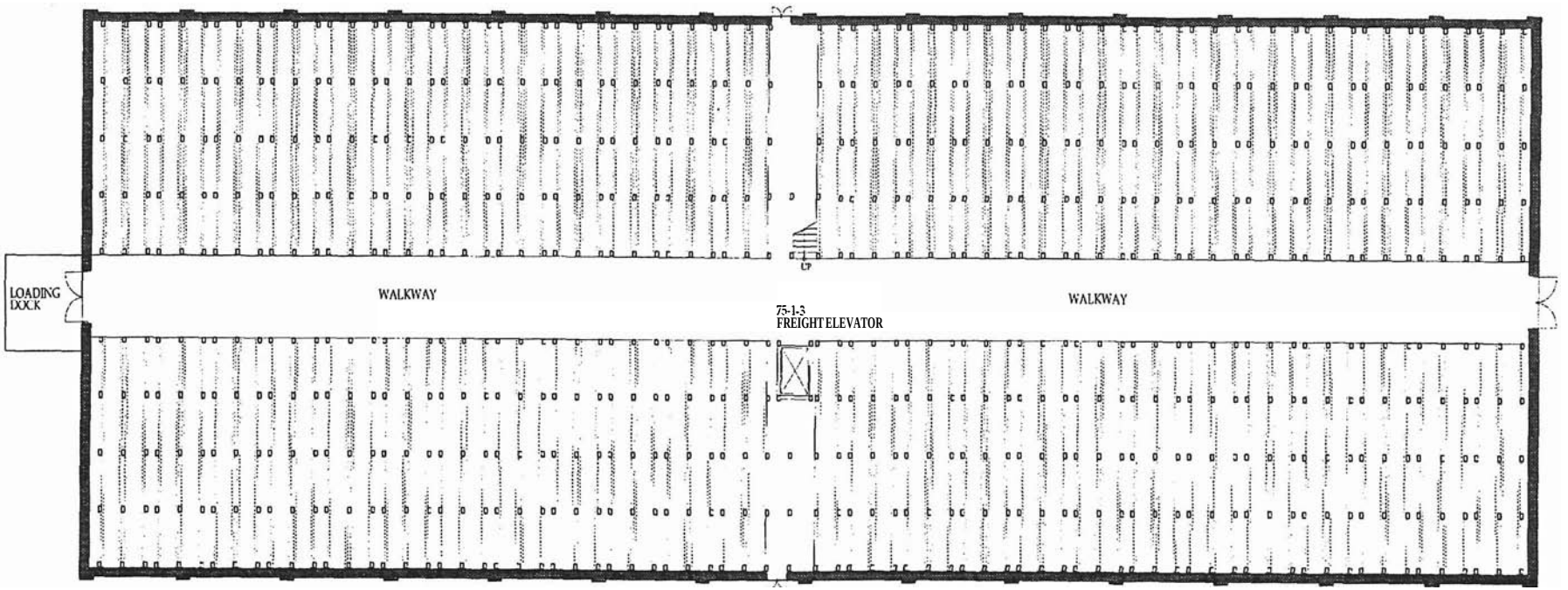
CASE **GOODS** WAREHOUSE

ELEVATIONS

EXISTING



15 . RACK HOUSE 'M'



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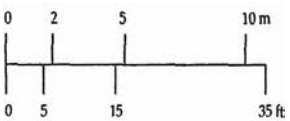
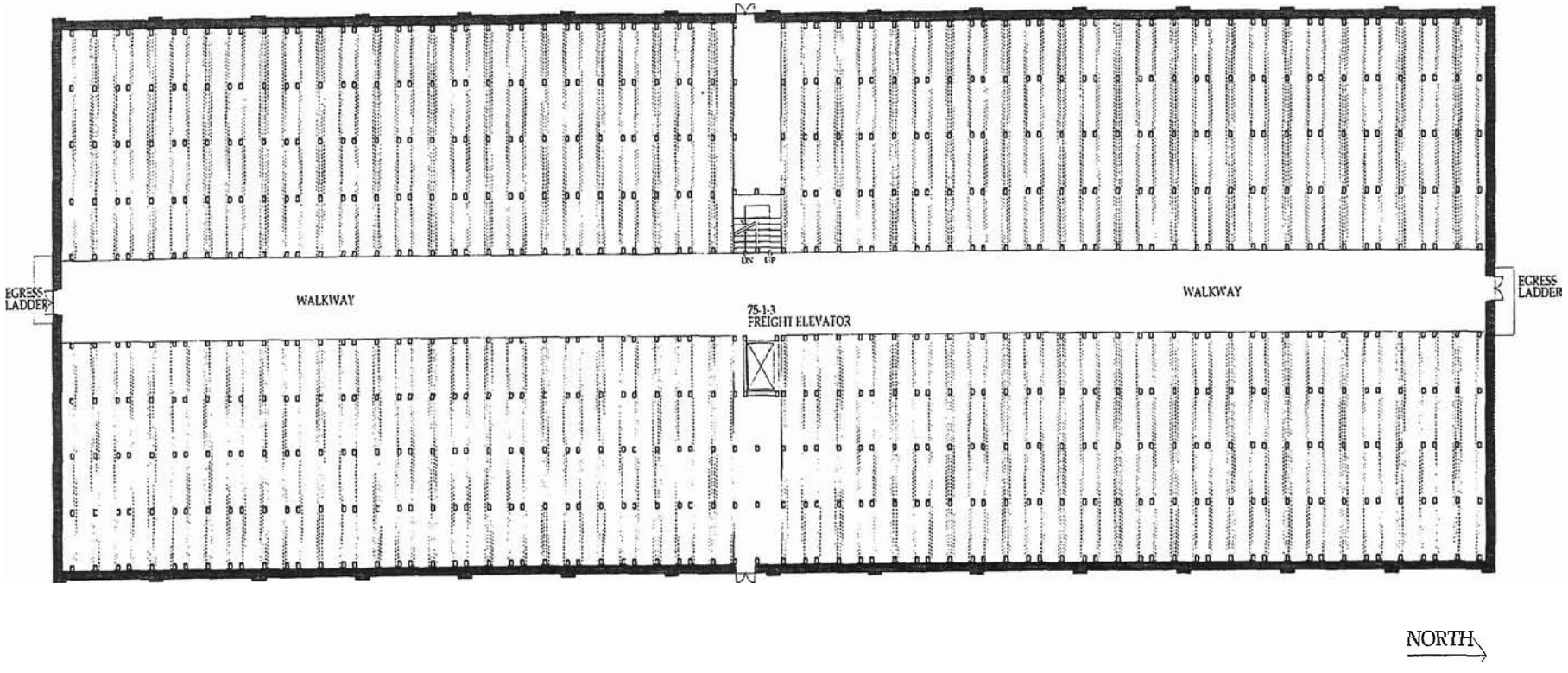
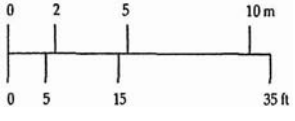


RACK HOUSE 'M'

GROUND FLOOR PLAN

EXISTING

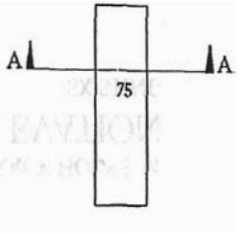


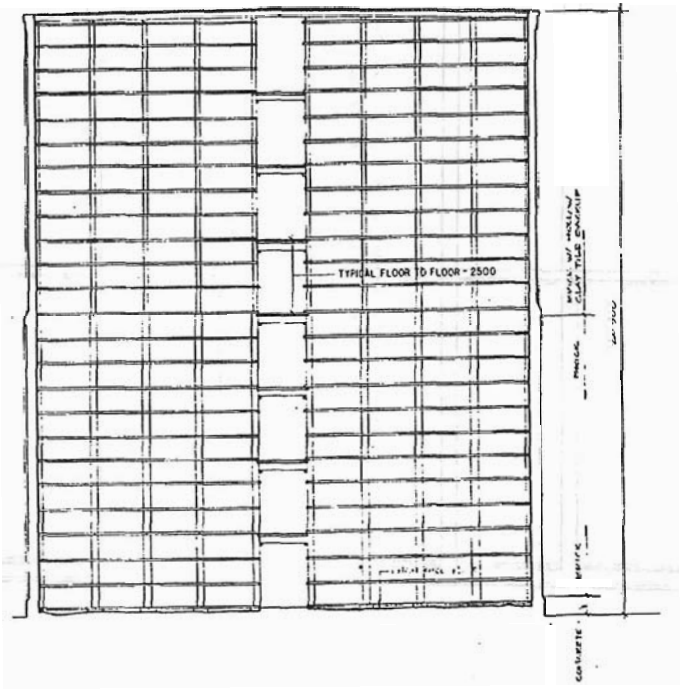


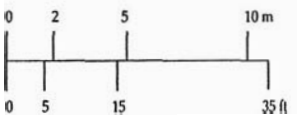
RACK HOUSE 'M'

TYPICAL UPPER FLOOR PLAN

EXISTING







RACK HOUSE 'M'

SECTION A-A

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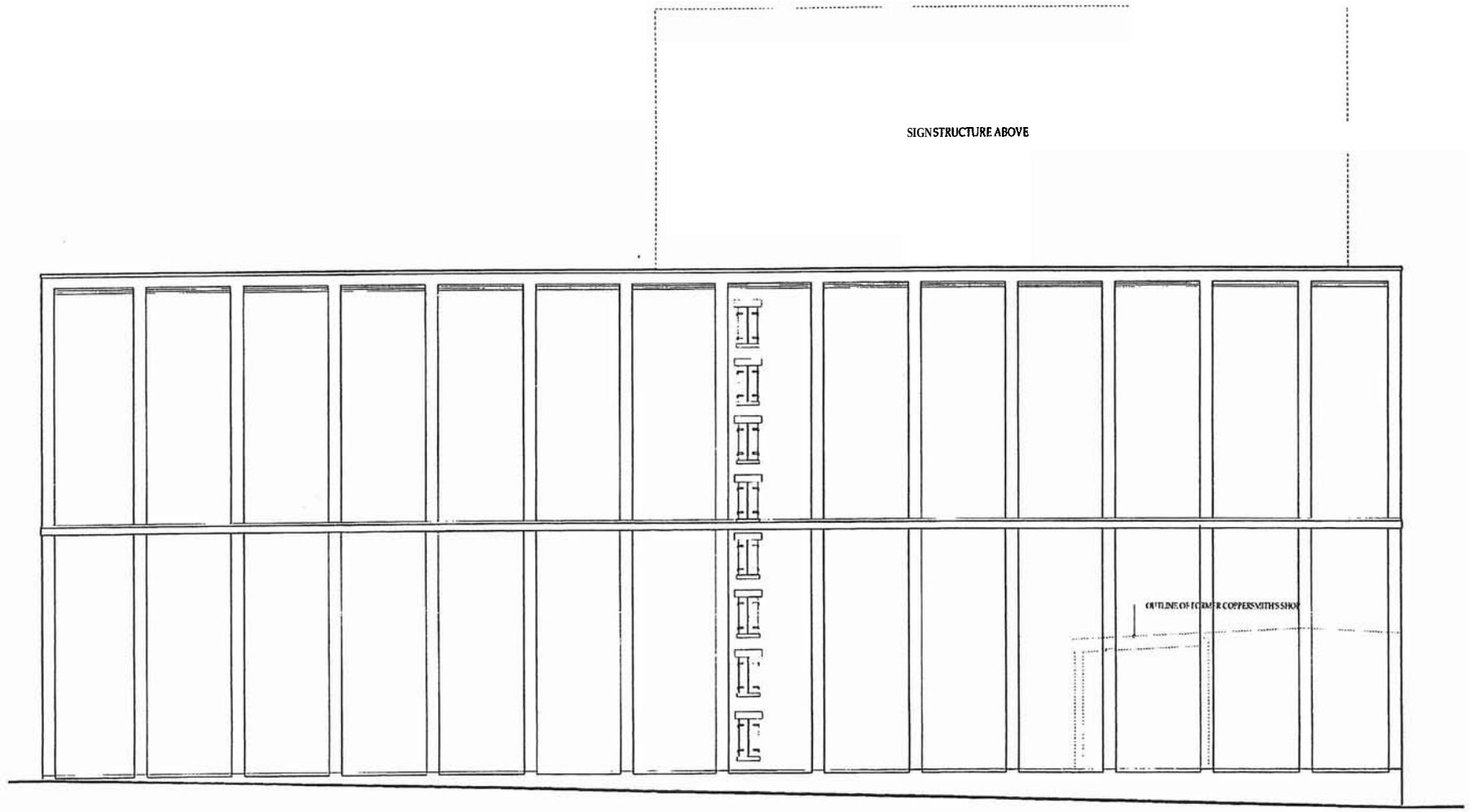

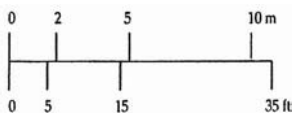

RACK HOUSE **'M'**

WEST ELEVATION

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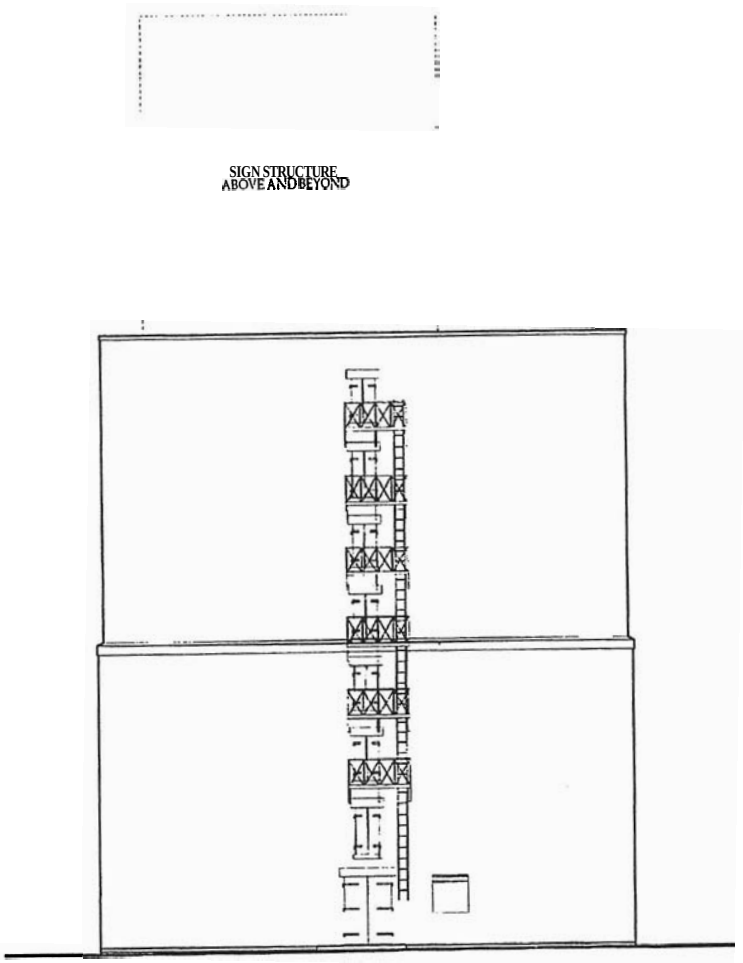
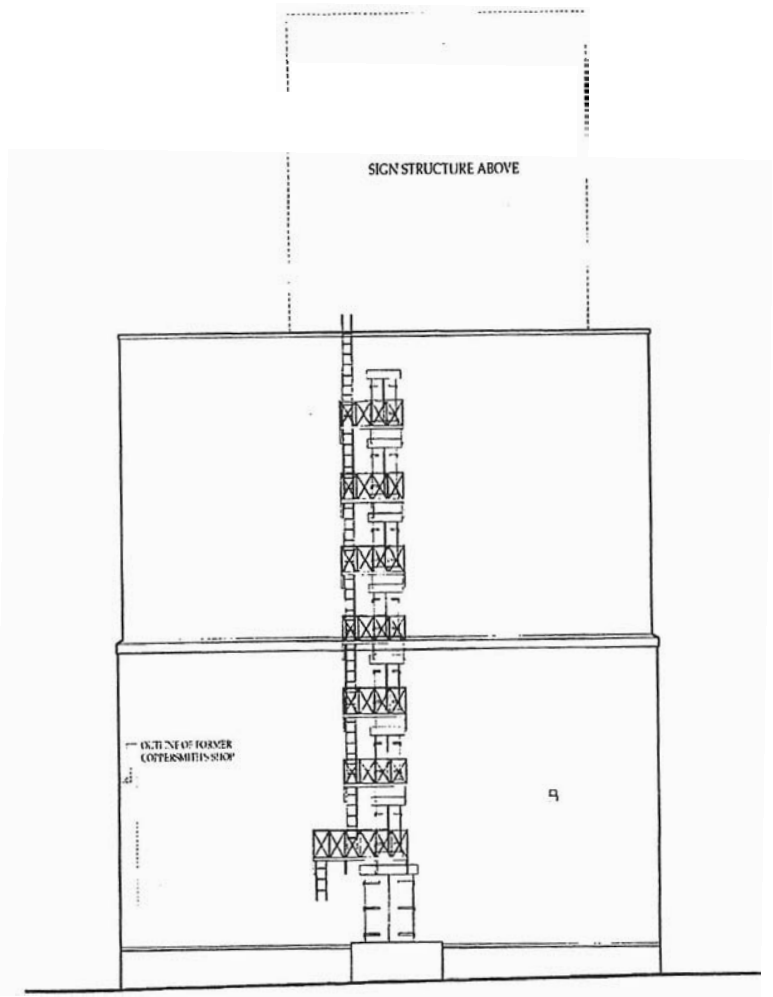
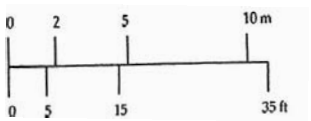


NORTH ELEVATION



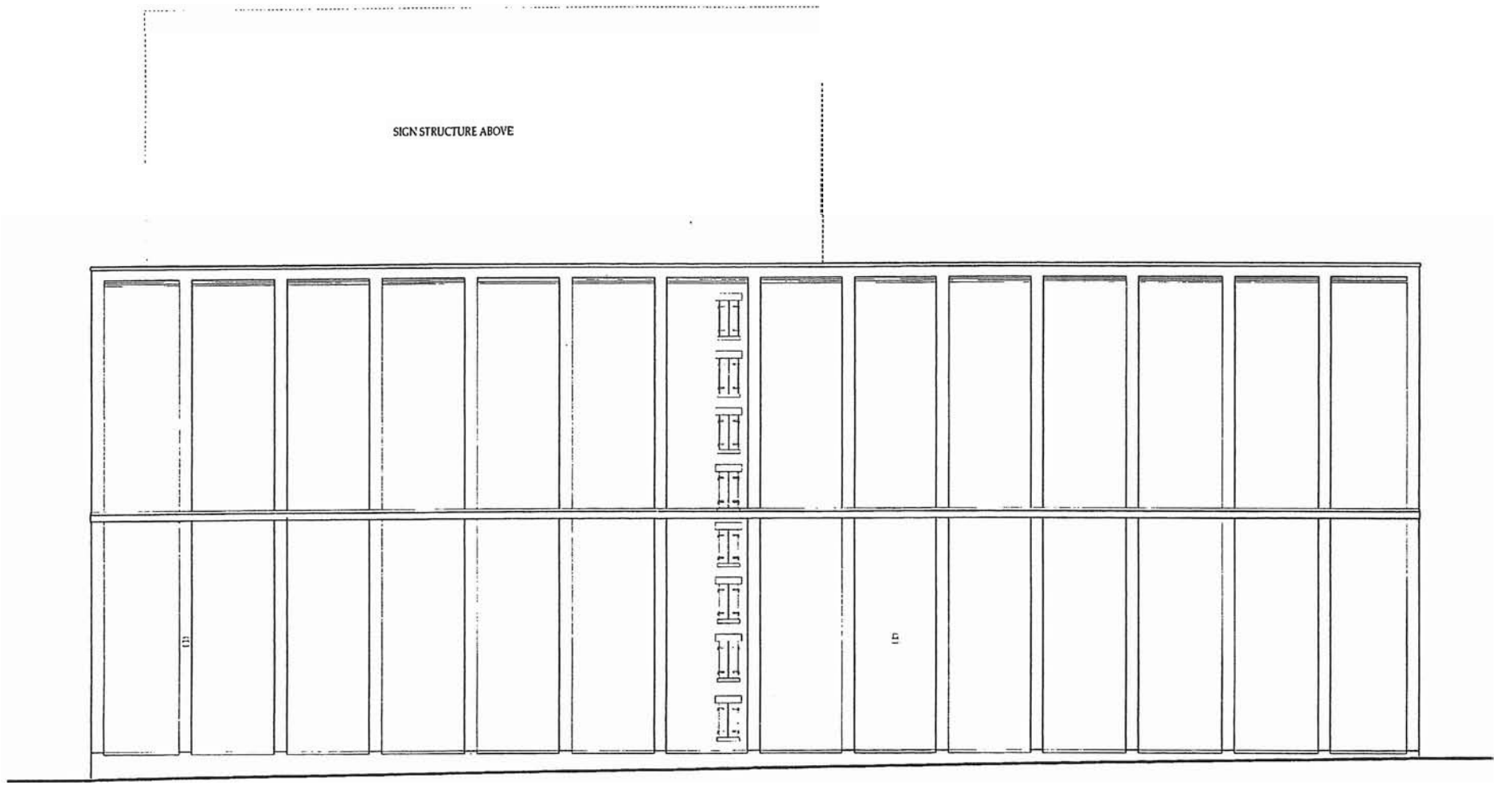
SOUTH ELEVATION

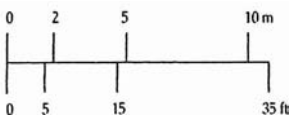


RACK HOUSE 'M'

NORTH, SOUTH ELEVATIONS

EXISTING

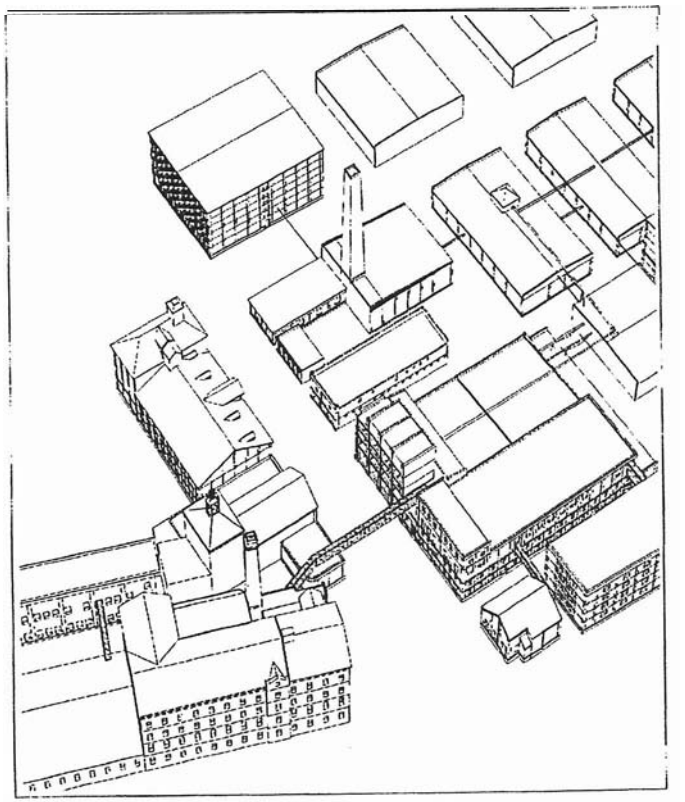




RACK HOUSE 'M'

EAST ELEVATION

EXISTING



16 . BRIDGES

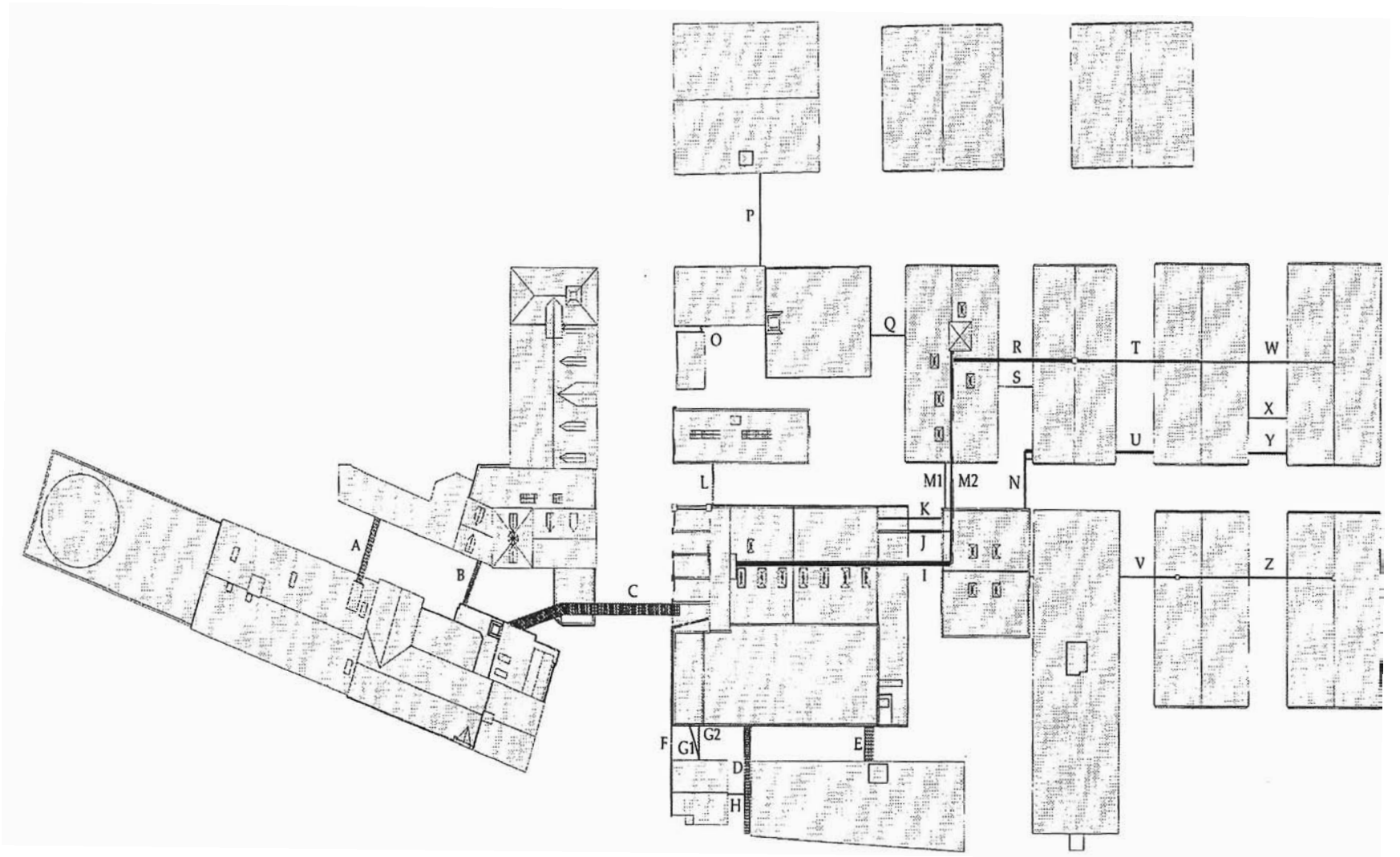
BRIDGES

INTRODUCTION

Bridges, Chutes and Overhead Pipes

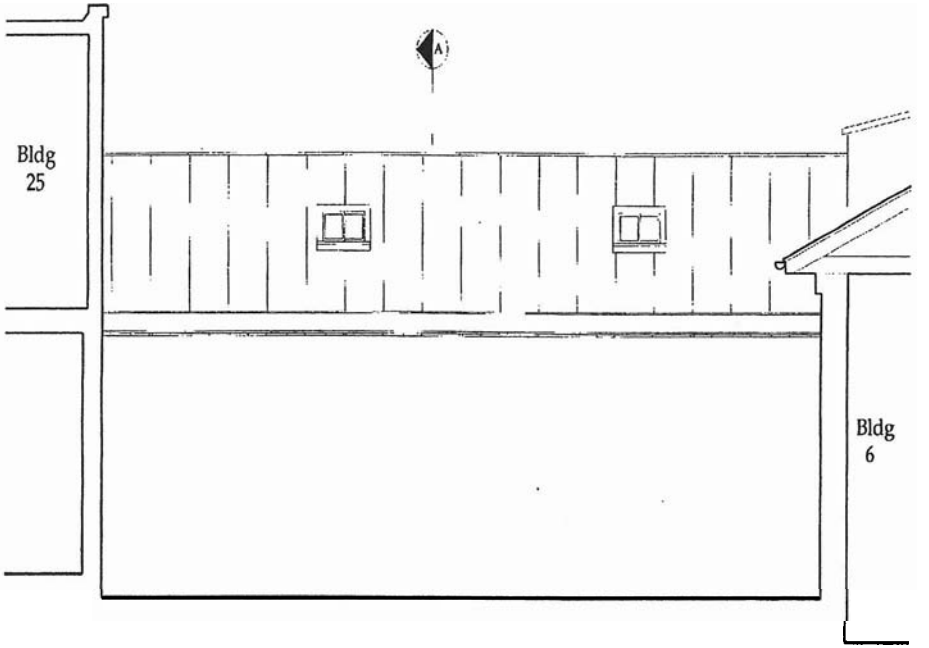
These overhead structures contribute to the distillery's industrial plant character. Unlike buildings in cities where services are connected under the street, the industrial plant uses the more economical above-grade distribution systems to allow for the efficient movement of energy sources, people, 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.

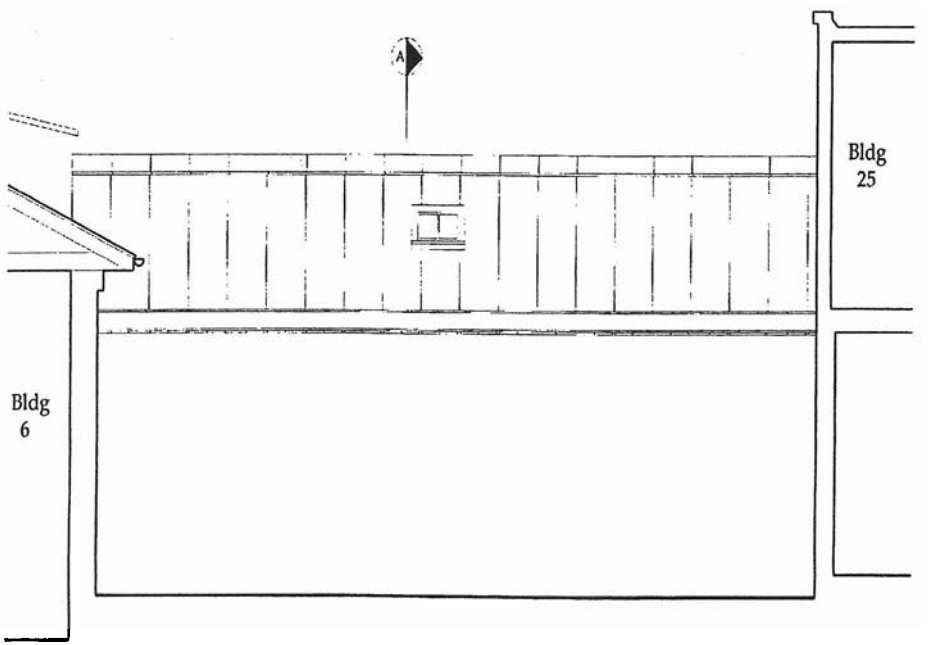


KEY PLAN

SHOWING BRIDGES, CHUTES **AND** OVERHEAD PIPES



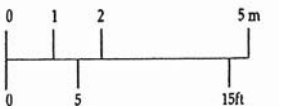
WEST ELEVATION



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

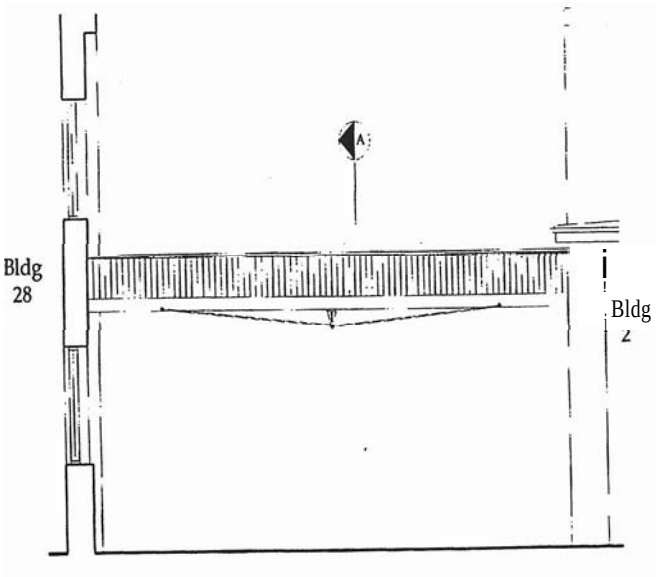
SECTION A



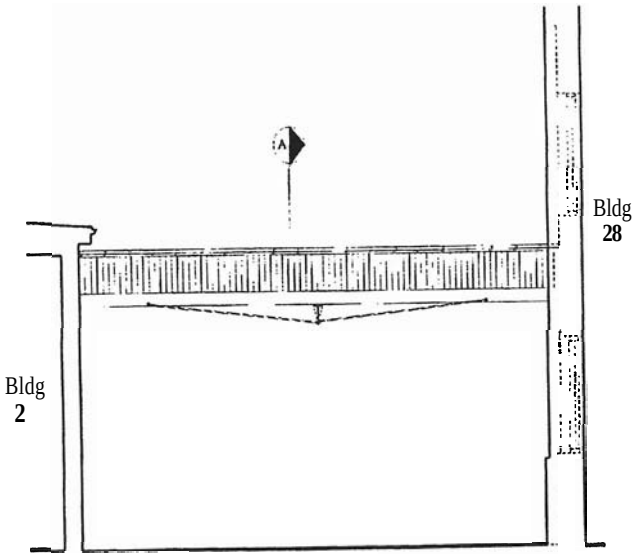
BRIDGE 'A'

FROM BLDG. 25 TO BLDG. 6

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

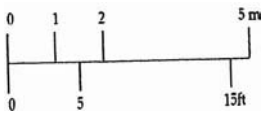


WEST ELEVATION



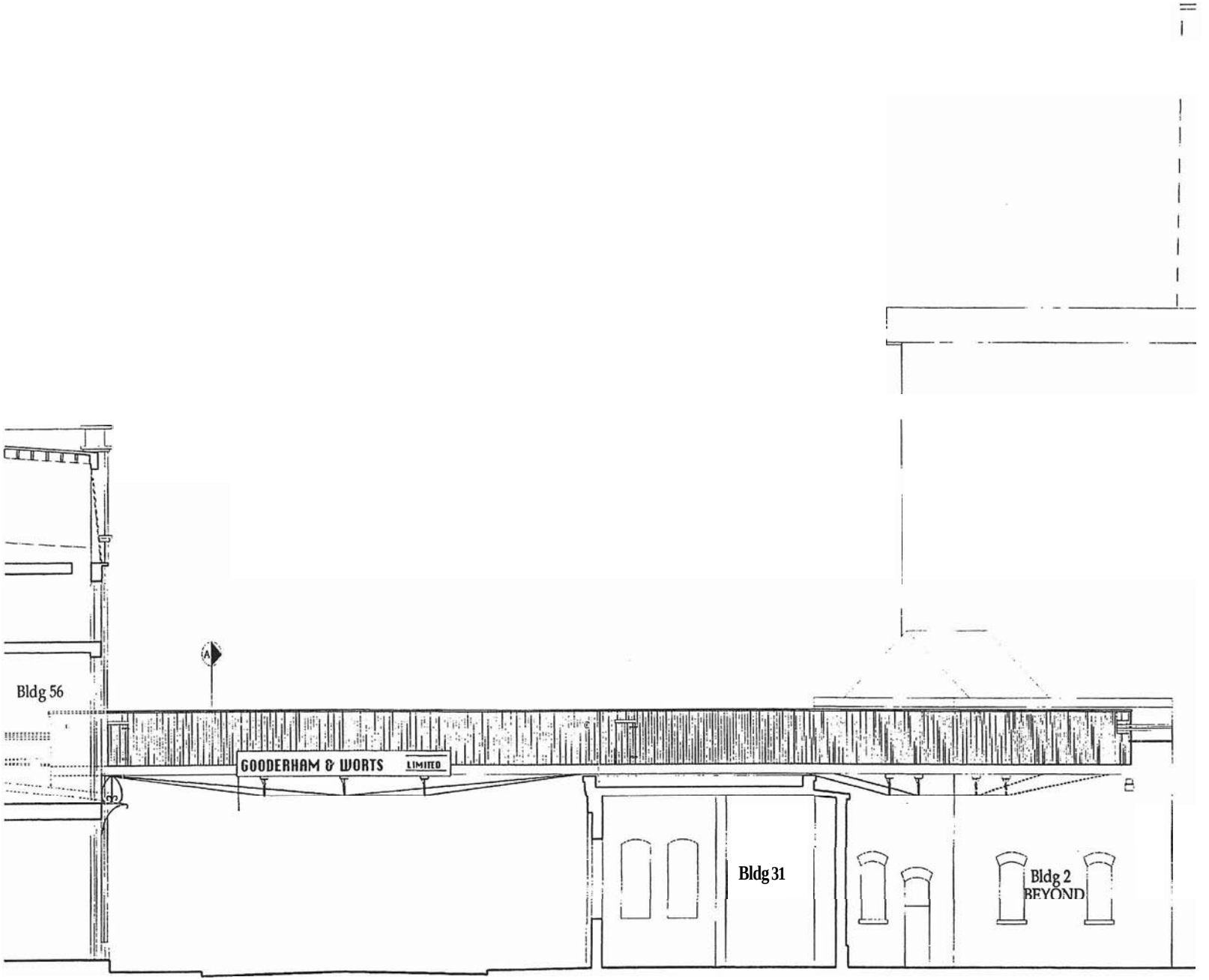
EAST ELEVATION

SECTION A

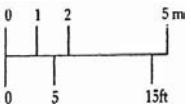


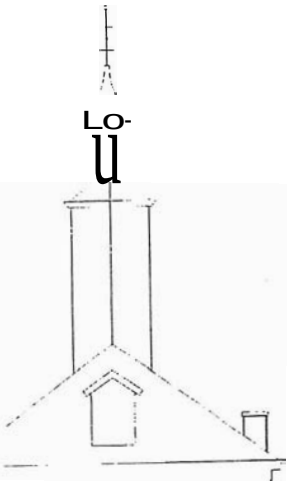
BRIDGE 'B'

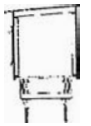
FROM BLDG. 28 TO BLDG. 2



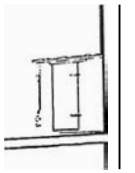
NORTH ELEVATION





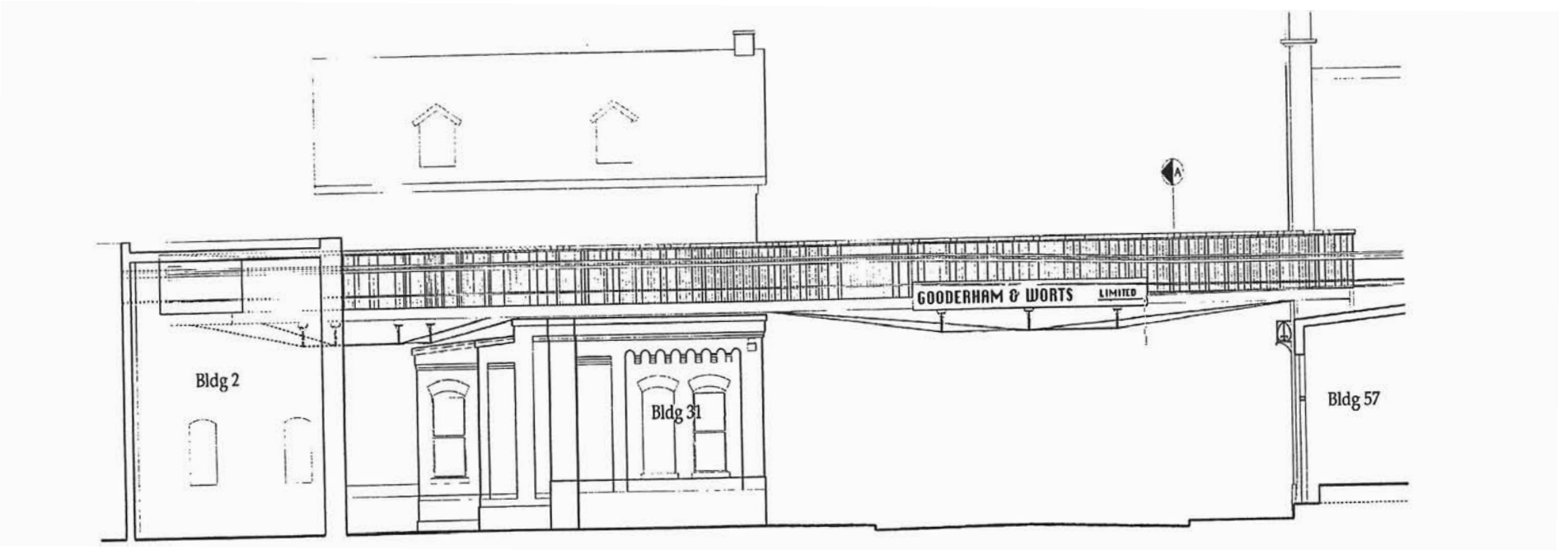


SECTION A

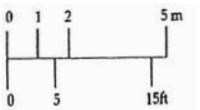


EAST ELEVATION

Location:	wall to roof to roof
Length:	41m - two spans: 15m and 26m
Width:	2.0m
Depth:	1.3.2m
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

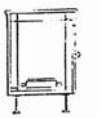


SOUTH ELEVATION

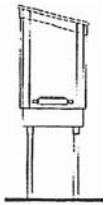


BRIDGE 'C'

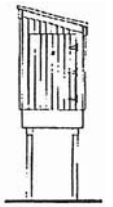
FROM BLDG. 2 TO BLDG. 31 TO BLDG. 57



SECTION A

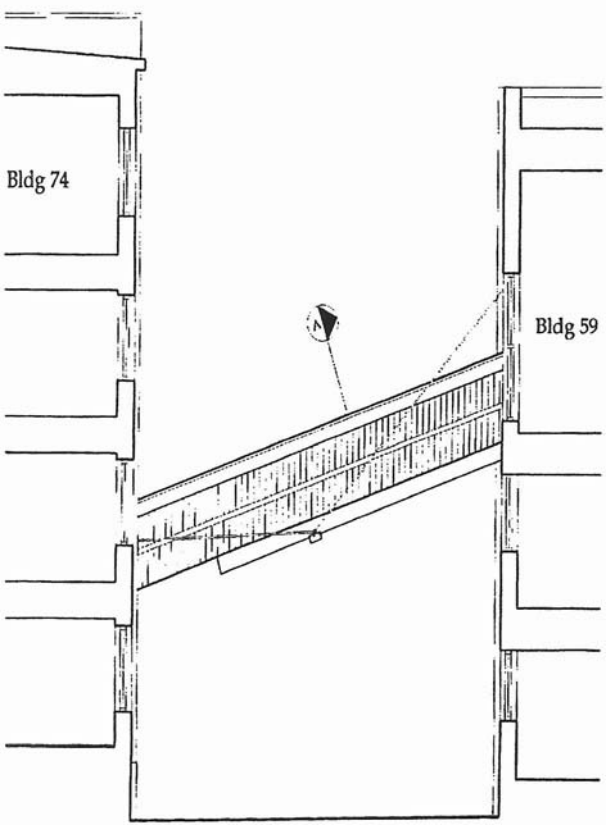


SECTION B

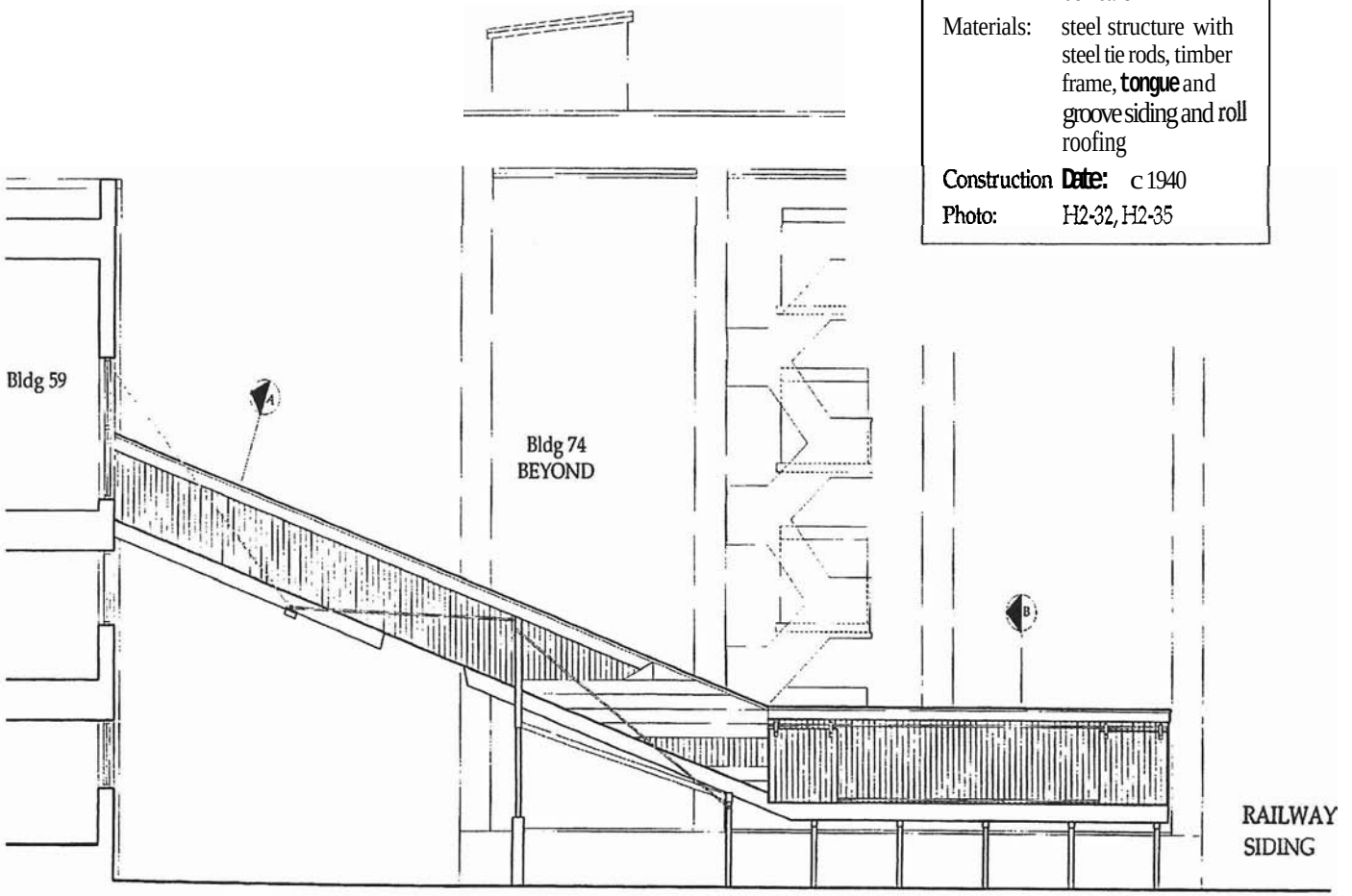


SOUTH ELEVATION

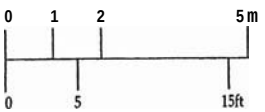
Location:	wall beside wall to railway siding
Length:	23m, 7.5m span
Width:	1.3m
Depth:	1.3m
Clearance:	4.1m to 7.1m
Purpose:	Casegoods (antifreeze) conveyor to railway box cars
Materials:	steel structure with steel tie rods, timber frame, tongue and groove siding and roll roofing
Construction Date:	c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



EAST ELEVATION



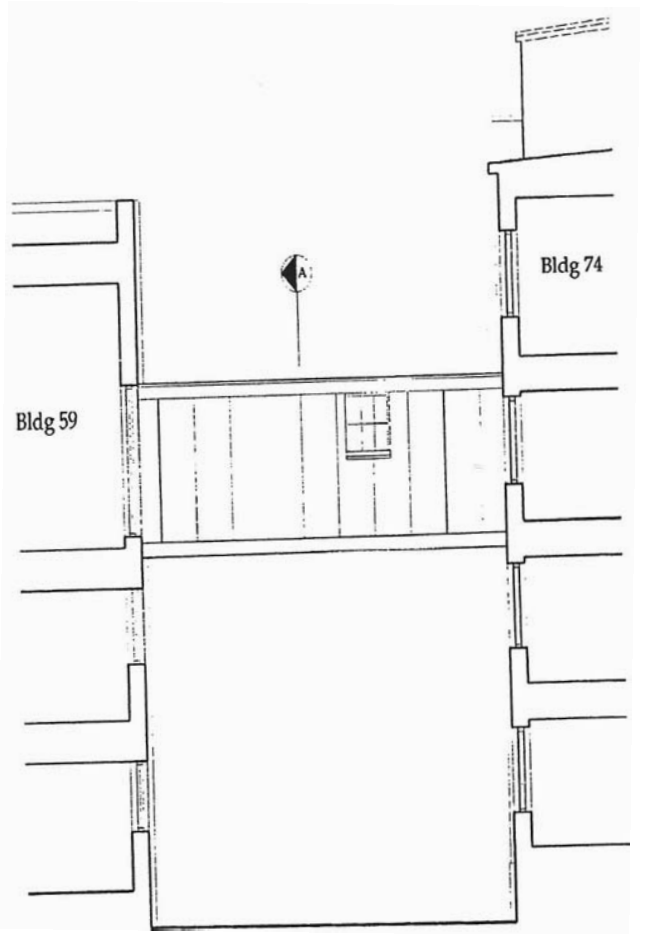
WEST ELEVATION



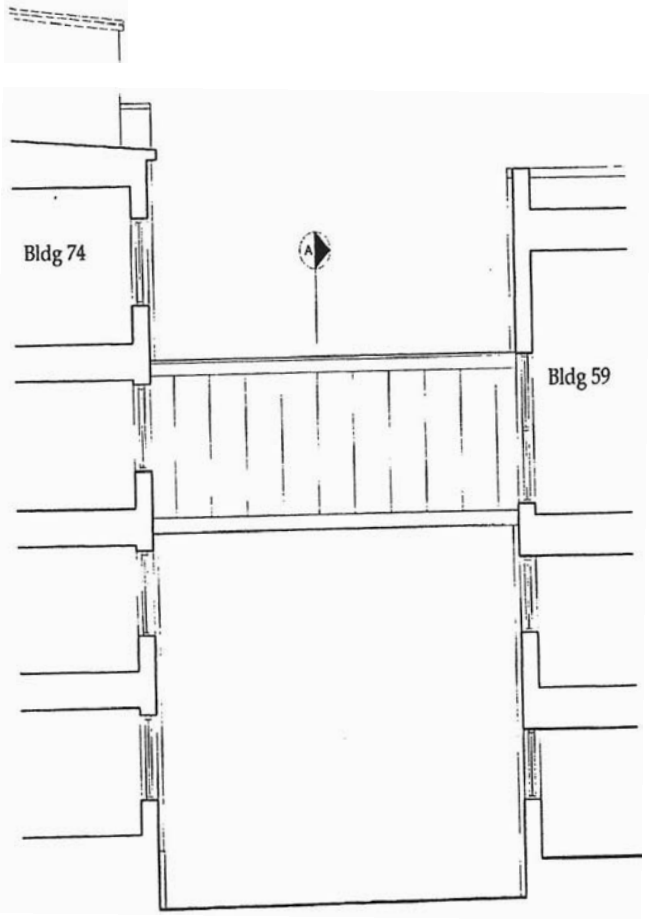
BRIDGE 'D'

FROM BLDG. 59 TO RAILWAY SIDING

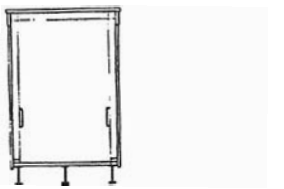
Location:	wall to wall
Length:	7.46m
Width:	2.16m
Depth:	2.9m
Clearance:	6.4m
Purpose:	pedestrian link
Materials	3 steel T beams and structure, timber frame, corrugated steel siding with a tongue and groove siding interior
Construction Date:	n/a
Photo:	H2-36, H2-37



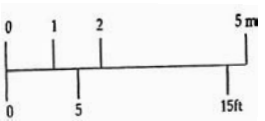
WEST ELEVATION



EAST ELEVATION



SECTION A



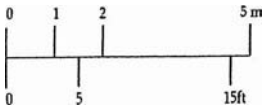
BRIDGE 'E'

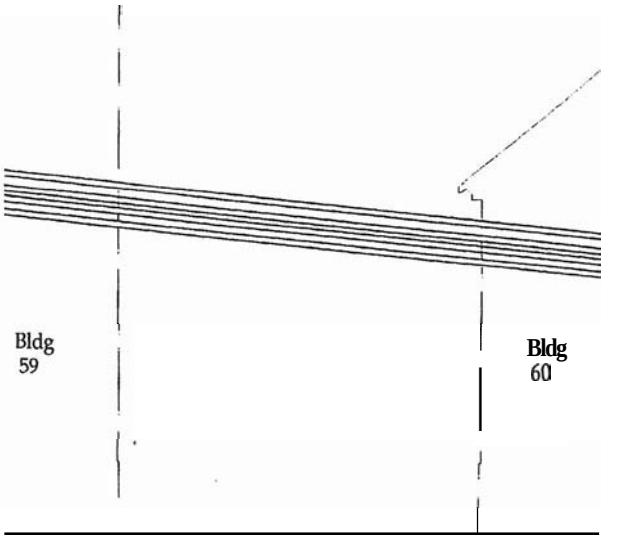
FROM BLDG. 59 TO BLDG. 74

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



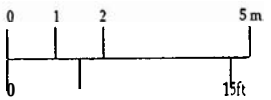


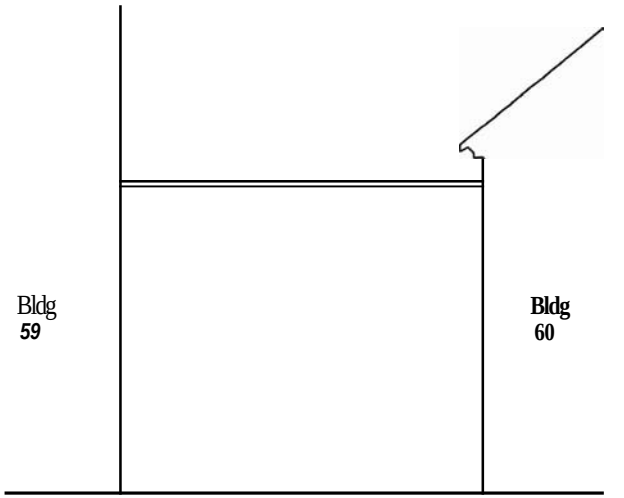
WEST ELEVATION

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



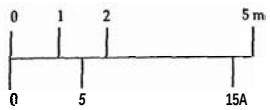


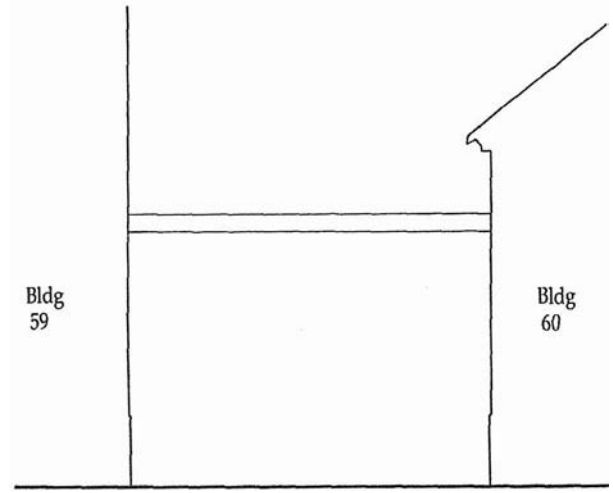
WEST ELEVATION

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



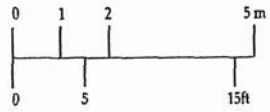


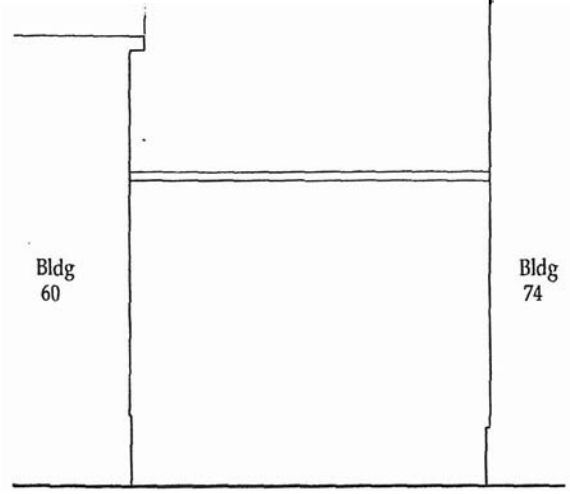
WEST ELEVATION

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



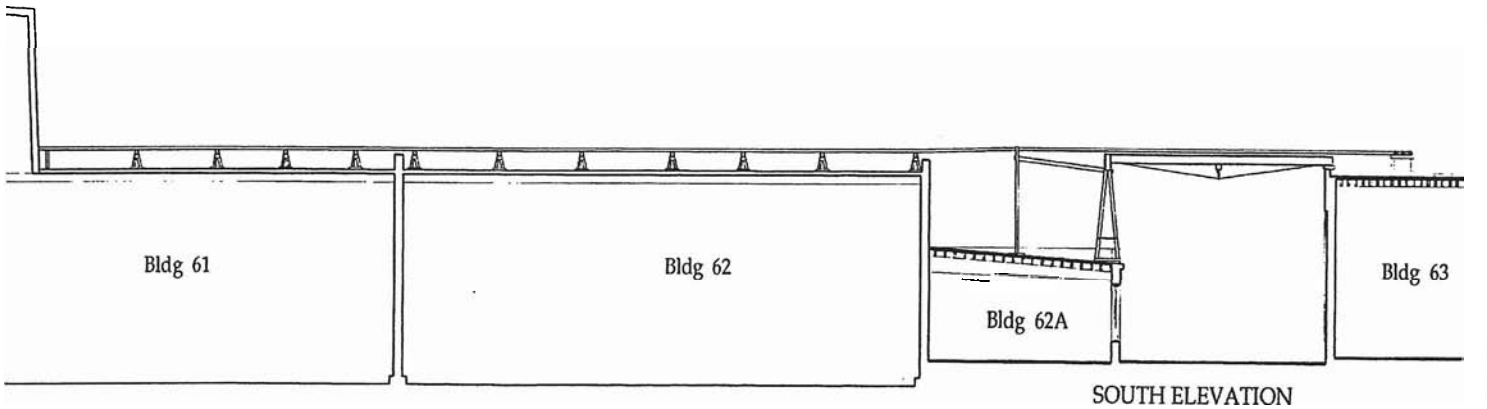


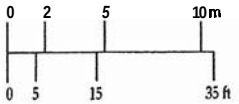
SOUTH ELEVATION

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

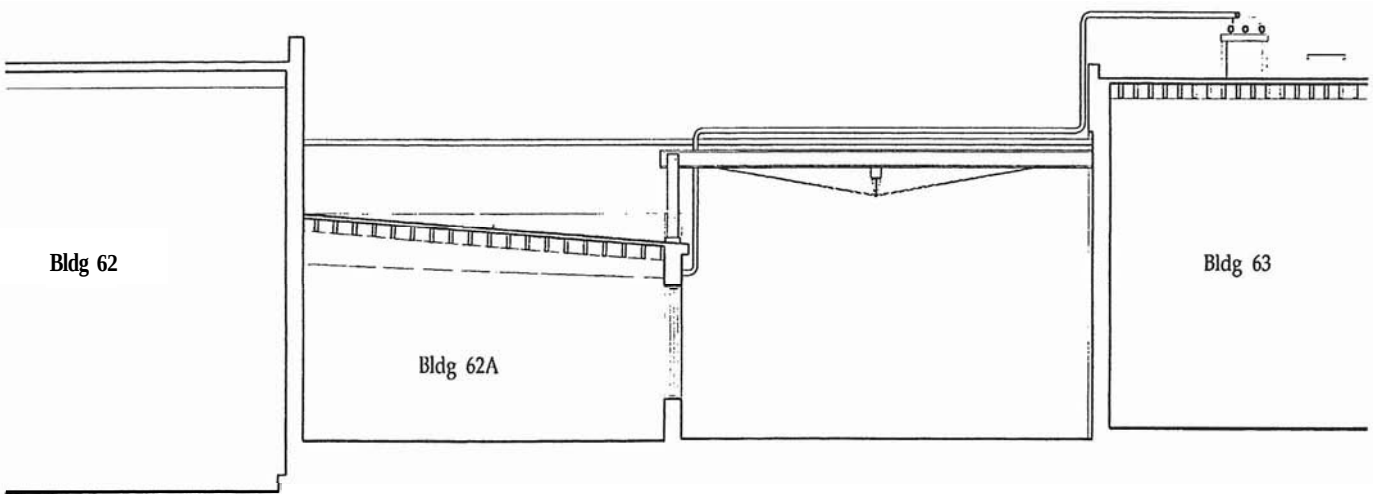


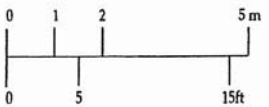


BRIDGE 'J'

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

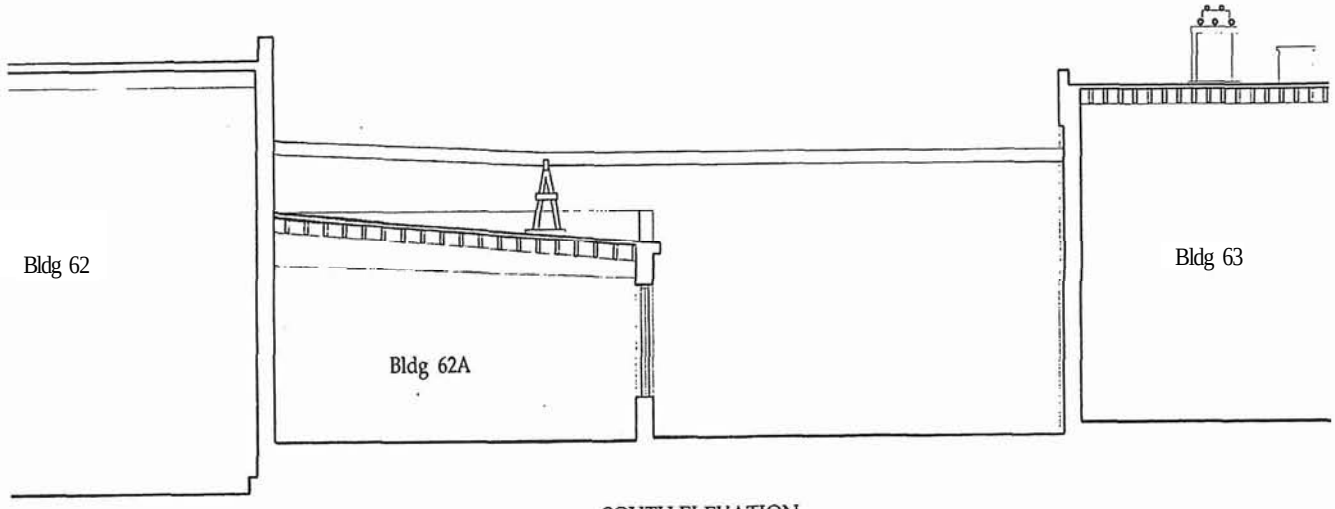




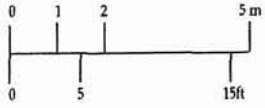
BRIDGE 'K'

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



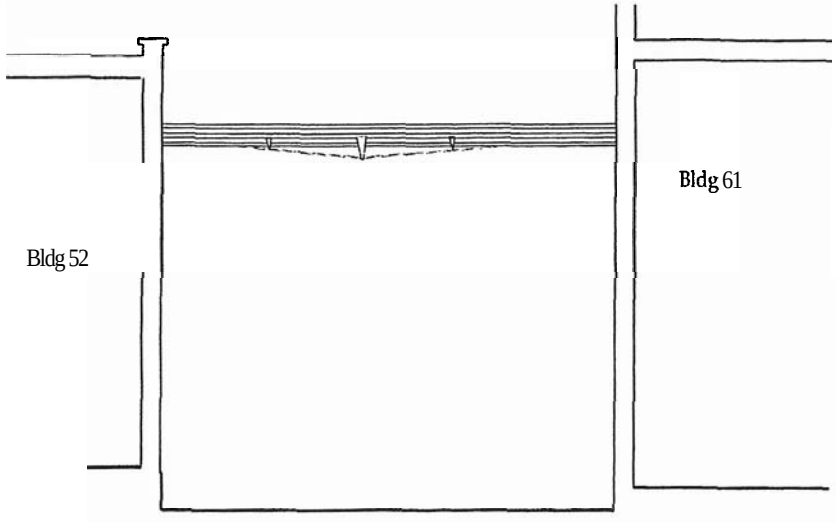
SOUTH ELEVATION



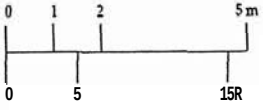
BRIDGE 'L'

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



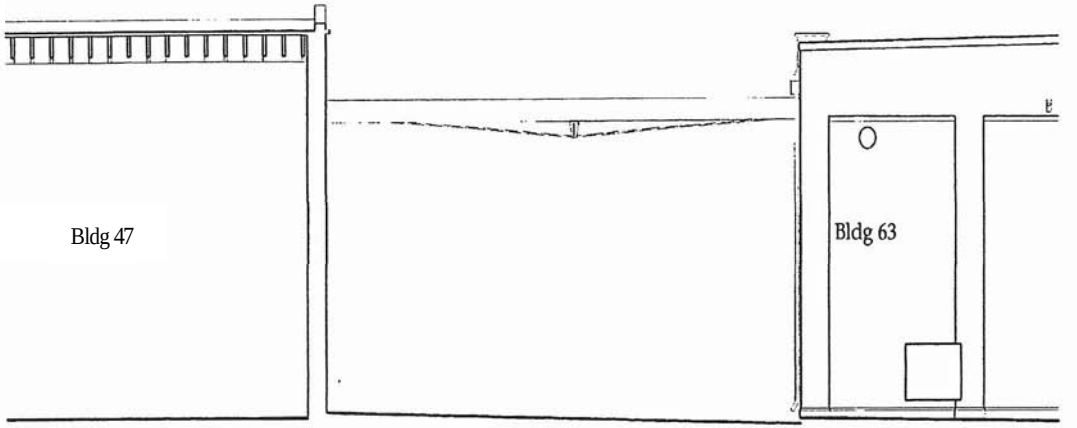
WEST ELEVATION



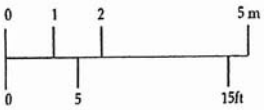
BRIDGE 'M1'

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



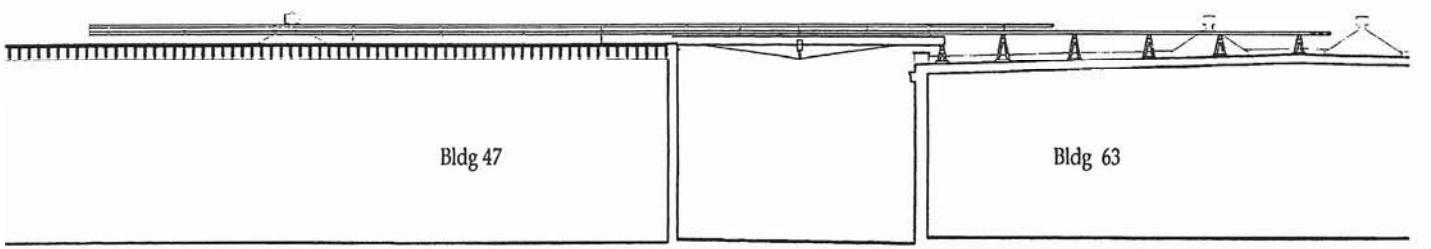
WEST ELEVATION



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

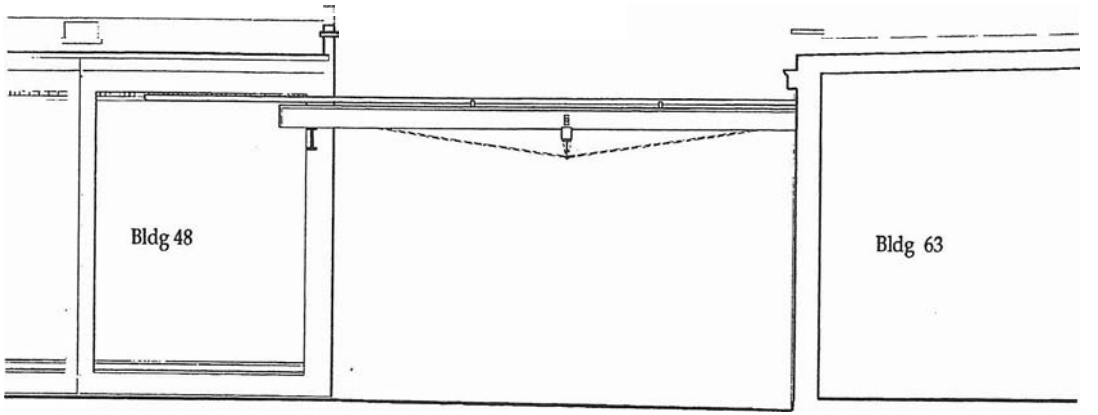


WEST ELEVATION

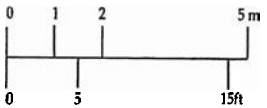
BRIDGE 'N'

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



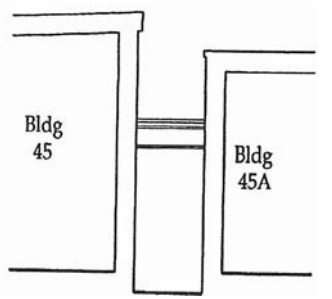
WEST ELEVATION



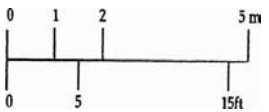
BRIDGE 'O'

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



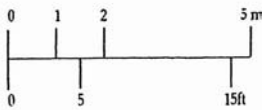
WEST ELEVATION

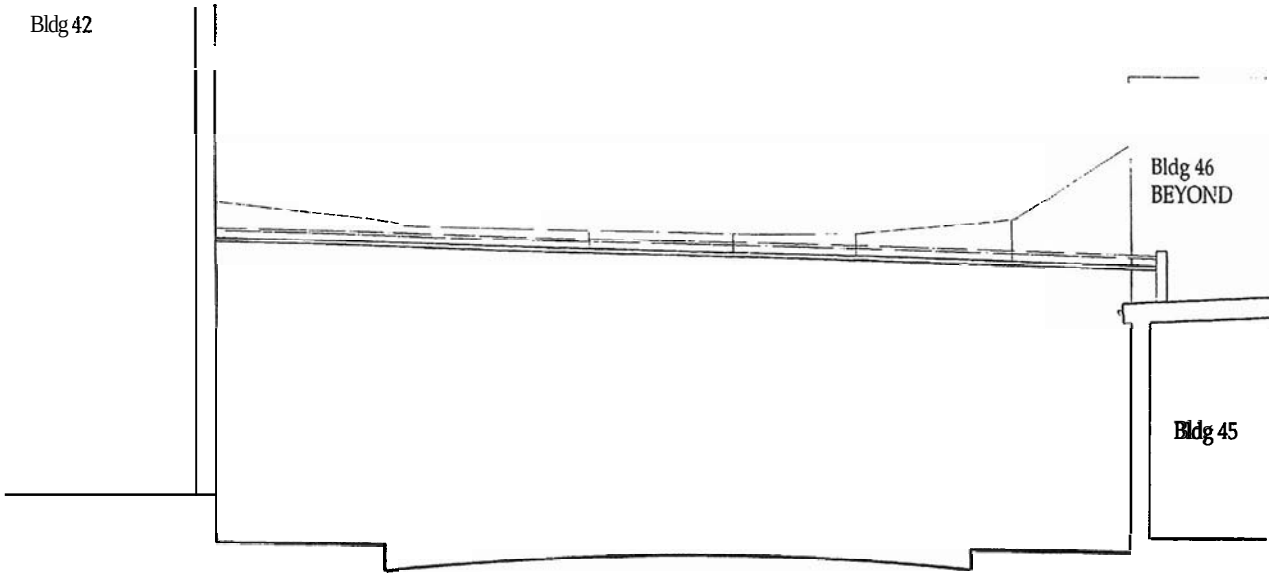


BRIDGE 'P'

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



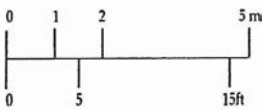


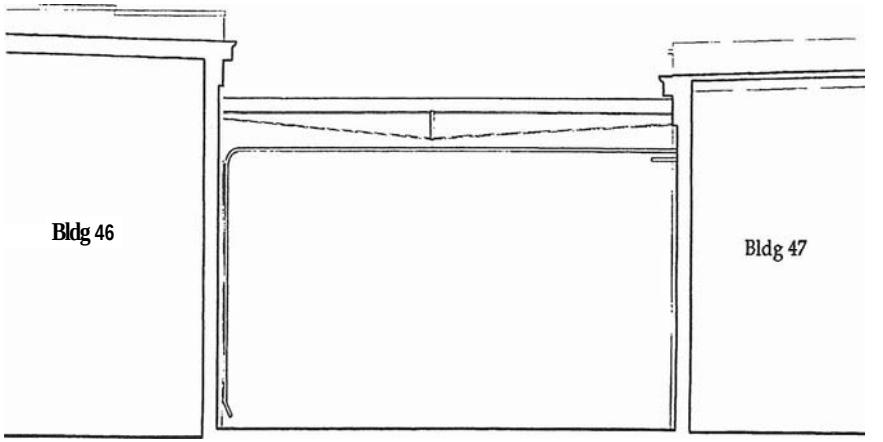
WEST ELEVATION

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



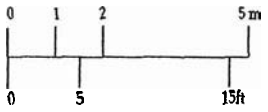


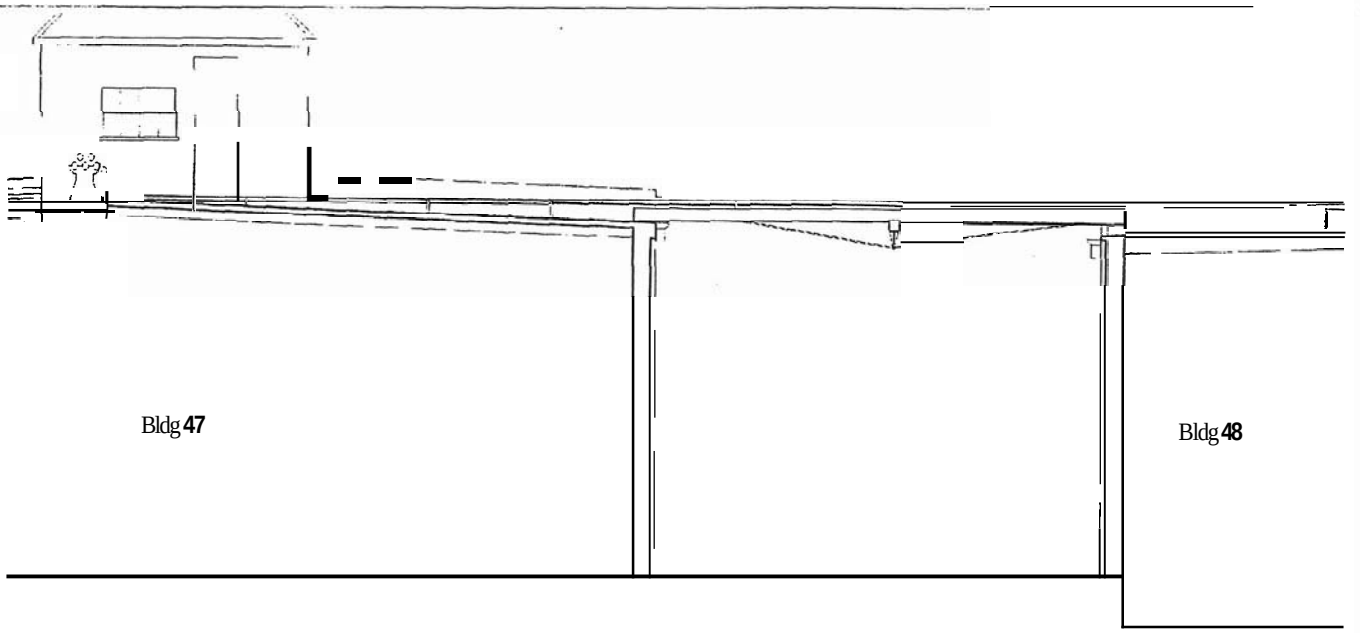
SOUTH ELEVATION

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



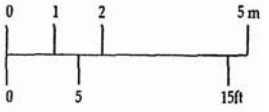


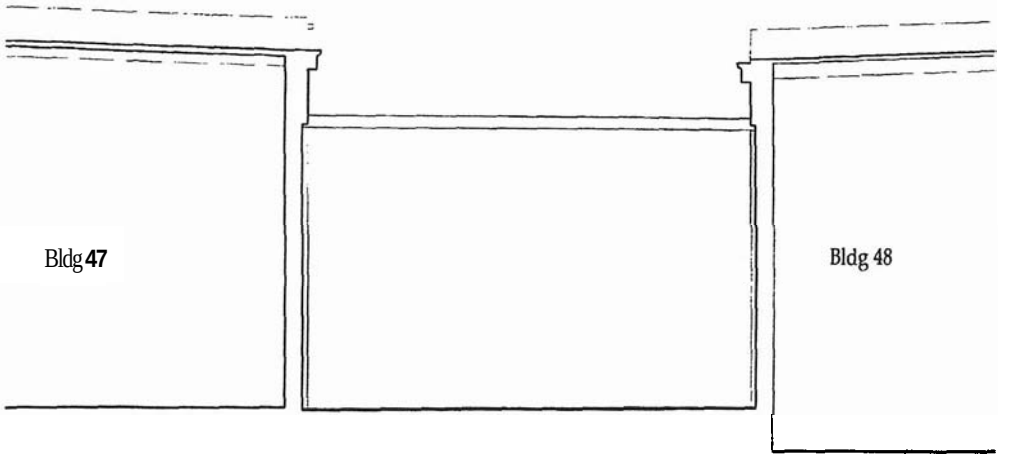
SOUTH ELEVATION

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



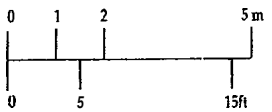


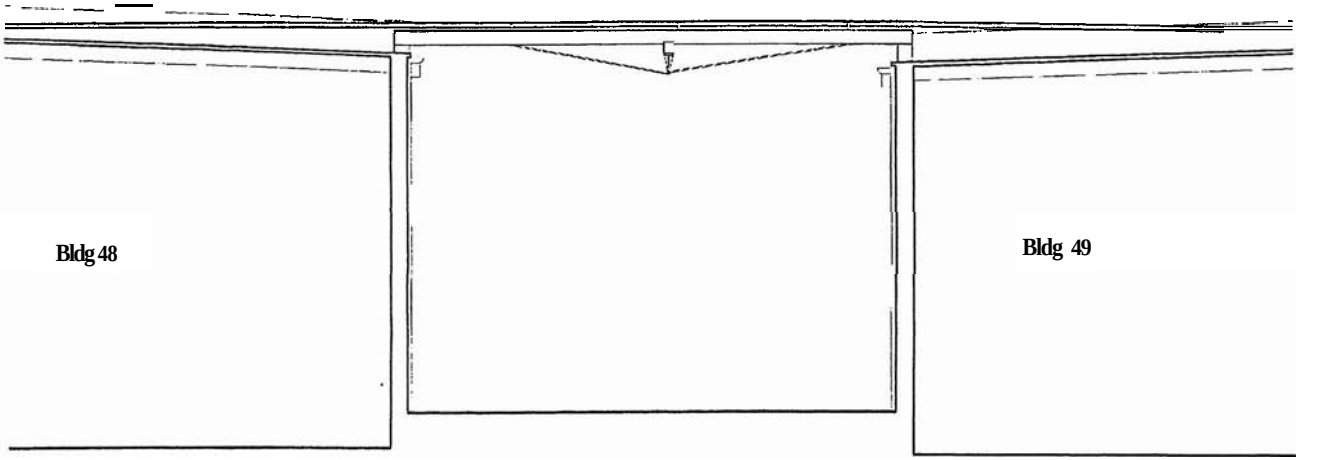
SOUTH ELEVATION

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



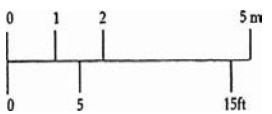


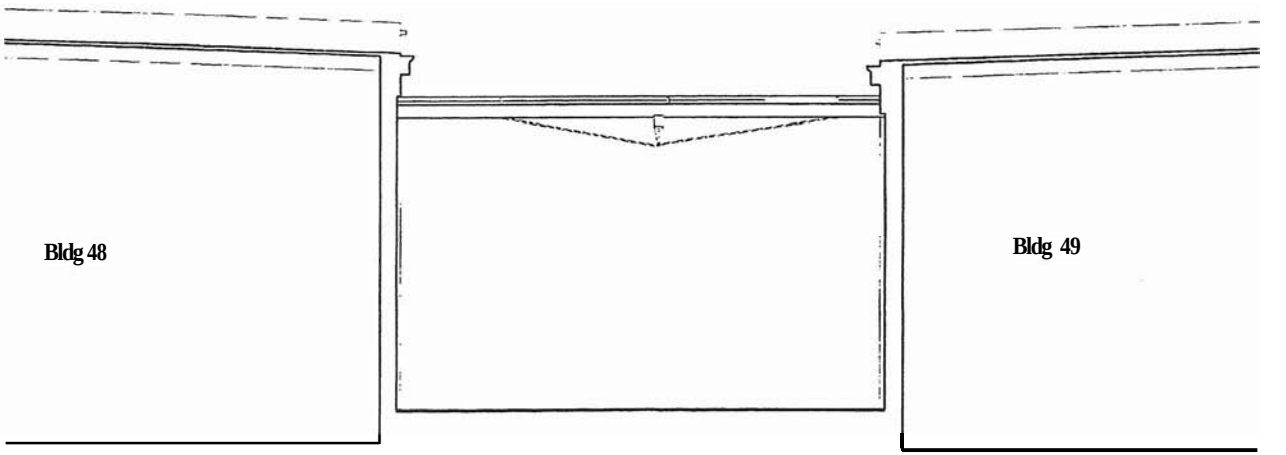
SOUTH ELEVATION

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



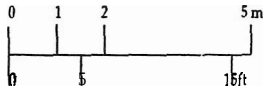


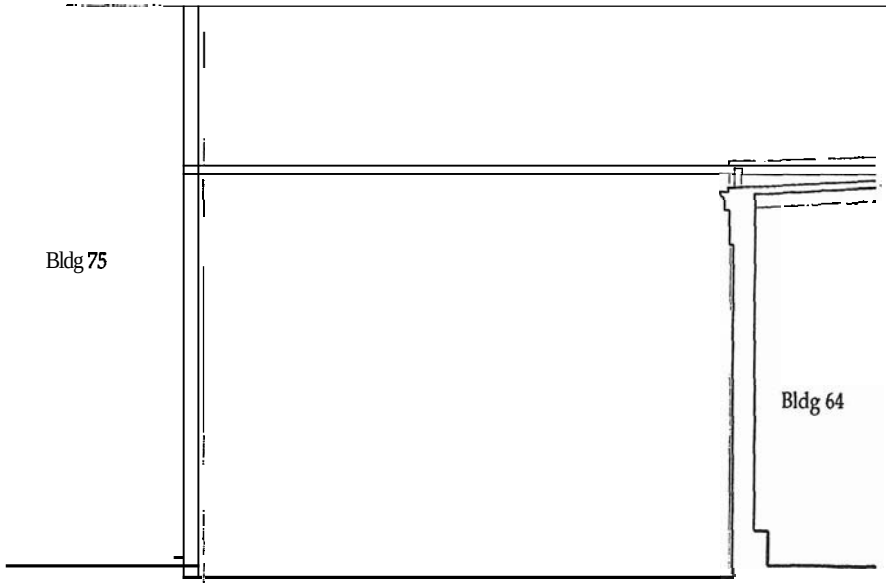
SOUTH ELEVATION

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



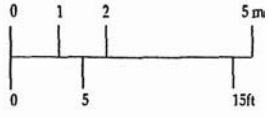


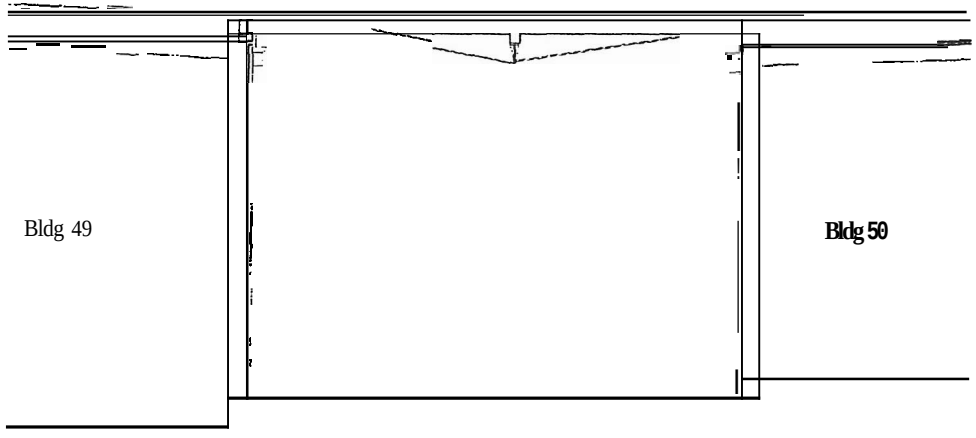
SOUTH ELEVATION

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



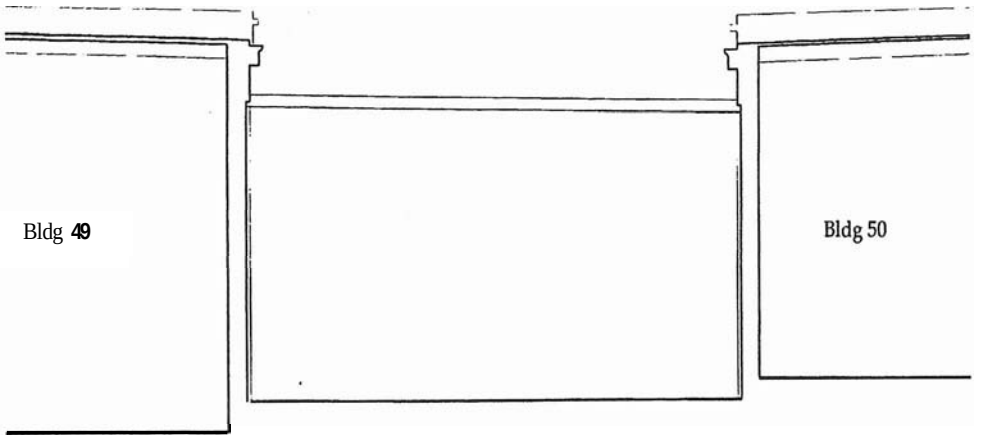


SOUTH ELEVATION

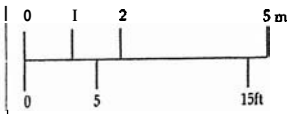
BRIDGE 'X'

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



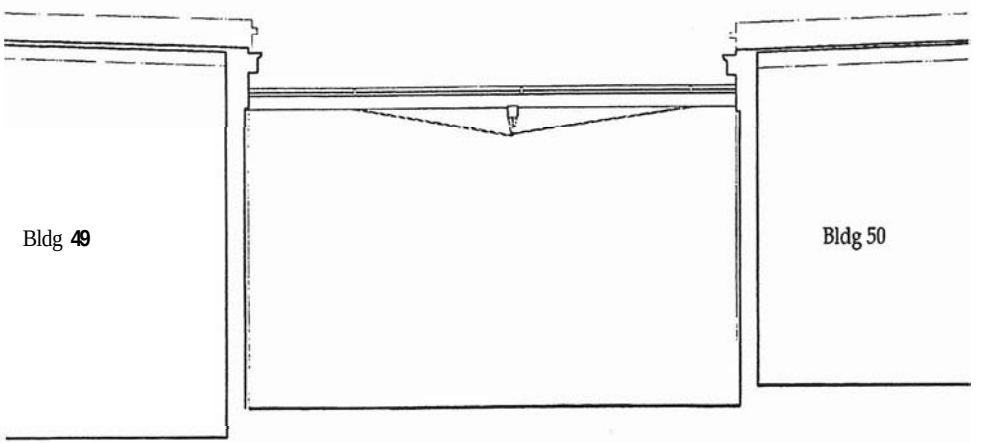
SOUTH ELEVATION



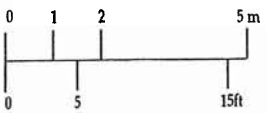
BRIDGE 'Y'

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



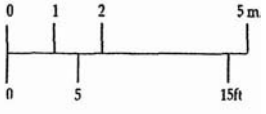
SOUTH **ELEVATION**

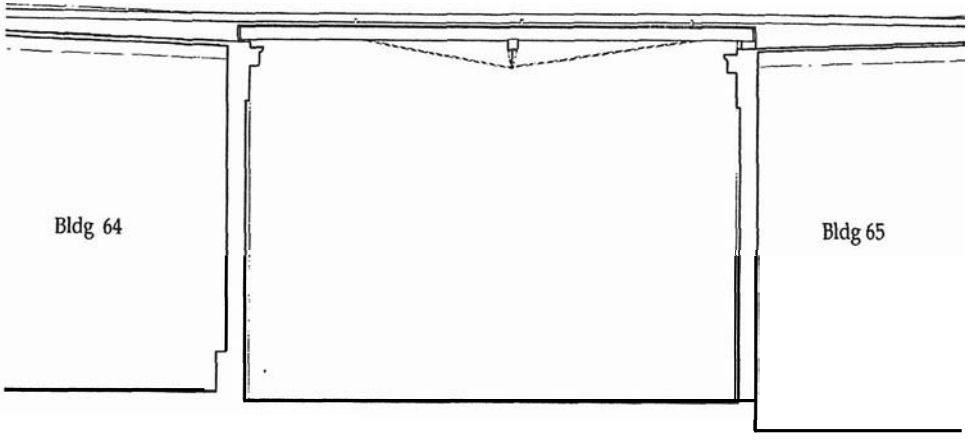


BRIDGE 'Z'

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