Building 45 **IL HABS No. (S-2008-1)**
(Former Building 13/Steam Plant)
45 Yonkie St.
Scott Air Force Base
St. Clair County
Illinois

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ILLINOIS HISTORIC AMERICAN BUILDINGS SURVEY

BUILDING 45
(Former Building 13/Central Heating Plant)

IL HABS Number S-2008-1

Location: 45 Yonkie St., Building 45, Scott AFB
Scott Air Force Base, Illinois

Present Owner: United States Air Force

Present Use: The building is vacant. Scott AFB plans to demolish the building, remove the debris, and grade the site for future use.

Significance: The significance of this property is its association with the growth and expansion of Scott Field (now Scott Air Force Base), in the late 1930s and early 1940s. Building 45 retains historical and architectural significance which contribute to the character of the Scott Field Historic District which is listed on the National Register of Historic Places.

PART I. HISTORICAL INFORMATION

A. Physical History

1. Date(s) of construction: Completed June 16, 1940

2. Architect: Construction Division, Office of the Quartermaster General (Approved by Direction: Elmer J. Walters, Captain, QMC)

3. Original and subsequent owners:
United States Air Force

4. Builder, contractor, suppliers: Unknown.

5. Original plans and construction: Original construction plans, and modification plans are in the office of the engineer at Scott Air Force Base. Copies of original plans are included with this documentation. Digital images only of many of the plans of modifications to Building 45 are also submitted with this documentation.

6. Alterations and additions: (see attached reference plan drawings)

In approximately 1970, a one-story addition of brick-masonry construction and with a shed-profile roof was added to the southeast side of the building.

In 1971 and 1972, a project was undertaken to remove coal-burning equipment and modify boiler walls and fire boxes to be utilized as oil-burning equipment. The $386,000 fuel conversion program was implemented in order to reduce air pollution. A 200,000 gallon above-ground oil storage tank and pump house were added near Building 45. These are no longer extant.

In April of 1992, aluminum frame and multiple-light windows with translucent glazing were installed to replace most of the original steel sash windows which had multiple fixed lights with center hopper operating sashes. The original windows were of varying sizes and numbers of lights. The original steel sash windows are extant at the upper half of the left bay of the southwest façade; and at the upper half of the right bay of the northwest façade.

All of the four boilers and stacks; coal bunkers and conveyors; piping, valves and other equipment have been removed from the building.

B. Historical Context:

Scott Air Force Base

Scott AFB is located in St. Clair County, Illinois, which is approximately 20 miles east of St. Louis, Missouri. The installation comprises approximately 2,848 acres and is located in predominately agricultural area. The installation is immediately south of Interstate Highway 64, near the cities of O'Fallon and Belleville.

Scott AFB is one of the oldest continuous service Air Force installations. Over the years, the installation has supported a variety of missions, beginning with the training of combat pilots during WWI. The aviation field was named after Corporal Frank Scott, the first enlisted person to be killed in an aviation crash. On September 2, 1917 the arrival of the 11th and 21st Aero Squadrons initiated Scott AFB's combat training mission. In 1918, Scott AFB's air ambulance was established; this early aeromedical evacuation was the beginning of a primary role for Scott AFB. Following WWI, the government decided that the field should be turned over to the lighter-than-air (LTA) branch of the Air Corps where balloon observers and airship pilots trained. This continued until 1937 when the LTA crafts were discontinued at the field and the War Department changed Scott AFB to a heavier-than-air field. In 1938 the field was designated as the new home of the General Headquarters of the Air Forces of the entire United States Army

making the field the nerve center of the entire Army Air Corps. In 1939, Scott AFB was designated as the Scott Field branch of the Army Air Corps. Today, Scott AFB is home to three headquarters: TRANSCOM, AMC, and the Defense Information Technology Contracting Organization. The 375th Airlift Wing is also host to more than 30 tenant units, including the Air Force Communications Agency; the Air Force Office of Special Investigations 3rd Field Investigations Region; and Air Force Reserve wing; and an Air National Guard unit.

The primary mission of Scott AFB is global mobility. The installation commands and controls all logistics of United States military in air, over land and across the sea. The installation is responsible for providing United States aeromedical evacuation capabilities, flying operational support airlift in the C-21, and air refueling missions in the KC-135. Scott AFB supplies forces to theater combatant commanders. (Toftemark, 2008).

Building 45

Building 45 was constructed during the base expansion of the late 1930s and early 1940s, as a steam heating facility for the base. It was completed June 16, 1940 at a cost of $170,800. The building continued to serve as one of the primary heating plants for the base until 1997 when the plant was decommissioned. The building was originally referenced as Building No. 13, Central Heating Plant. (Property Data Card; Original Architectural Drawings).

PART II. ARCHITECTURAL INFORMATION

A. General Statement:

1. Architectural character: Building 45 is a three-story brick, rectangular plan, industrial building. A small, one-story ell, which was originally the transformer room, extends from the northeast side of the building. The building has a concrete foundation, and flat profile roofs. The first story has horizontal brick bands and a concrete belt course which divides the first and second floors. On the upper façade are brick piers capped with concrete which separates each bay. Building 45 is a good example of first-quarter twentieth century industrial architecture.

2. Condition of fabric: Fair to good. The building is intact, but deteriorating due to lack of maintenance following the discontinuation of its use.

B. Description of Exterior:

1. Overall dimensions:

The overall building length is approximately 65 feet 9 inches, north to south and approximately 143 feet 8 inches, east to west (see attached reference plan for building dimensions).

The existing Generator Room at the south side of the building is approximately 12 feet 8 inches, north to south and approximately 19 feet 2-1/2 inches east to west and is located approximately 31 feet 8 inches from the south-east building corner.

The existing Electrical Room at the east side of the building is approximately 10 feet 3 inches, east to west and approximately 14 feet 3 inches, north to south and is located approximately 6 feet 0 inches from the north-east corner of the building.

The existing Storage Room and all associated building materials at the east side of the building had been removed prior to the March 2008 on-site visit by the documentation team. A concrete floor slab approximately 13 feet by 16 feet remained at the location of the removed Storage Room.

Total Building Area: 9,104 square feet (footprint of building).

2. Foundations:

Foundations are poured concrete.

3. Walls:

Exterior non-load bearing walls consist of 3 ¾" brick veneer exterior wythe with 8" clay tile masonry units back-up course and 3 ¾" brick veneer interior wythe. Total exterior wall thickness is 12 ½".

See attached sketch for exterior and interior brick veneer coursing – typical.

Cut stone exterior detail bands occur at second floor line, top of exterior brick pilasters and at the typical stone coping cap.

4. Structural system, framing:

Exterior Walls Construction

The building is supported by a structural steel interior skeleton composed of steel wide flange columns, steel beams and girders (see attached reference plan). Partially engaged columns are typical at exterior wall locations.

Floor Construction.

The floor is a concrete slab-on-grade at the first floor level throughout, with poured concrete equipment slabs, poured concrete equipment curbs and poured concrete trenches and tunnels.

Roof Construction.

The roof is a flat profile with a bituminous roof membrane and gravel ballast over pre-cast concrete slab roof deck supported by structural steel skeleton.

Interior Wall Construction.

Typical interior walls are 8" thick, double wythe clay tile at the northwest corner room.

Glazed tile interior walls are 8" thick, with single wythe clay tile back-up at northwest corner room.

5. Porches, stoops, balconies, bulkheads:

Exterior entrances to the building are slightly recessed and accessed by adjacent concrete site pavement and open lawn areas near grade level.

Poured concrete slabs at exterior transformer pads, exterior concrete sidewalks and concrete service drives (south, east and west sides only).

6. Chimneys:

Presently there are no chimneys located on the building.

7. Openings:

a. Doorways and doors: Exterior doorways and doors are slightly recessed from the exterior building façade. The west entrance is comprised of a hollow metal door and frame. There is an existing

man door and pair of oversized, hinged, hollow metal doors and frame along the south side of the building.

1. Single pane glazing units are missing from existing exterior doors. Temporary plywood covering has been applied to the exterior side of doors over gazing opening – typical.

b. Most of the exterior windows are composed of large 2-1/2" thick, aluminum frames with translucent glazing materials. The lower portions of the windows remain operational. Windows are awning style operation opening to the exterior of the building.

c. The original steel sash windows are extant at the upper half of the north bay of the west façade; and at the upper half of the west bay of the north façade.

8. Roof:

a. Shape, covering: All roofs are flat, with a slight structural slope to the south.

b. Storm water is collected along the south side of the building roof area at scuppers and transferred to copper conductor heads and copper downspouts.

C. Description of Interior:

1. Floor plans:

a. Basement: There are a series of underground trenches and tunnels composed of poured concrete. Select locations have exposed brick masonry veneer.

b. Main Floor: The main (ground) floor is an open floor plan with abandoned concrete equipment curbs and equipment pads at various locations. Metal stairs in the east and south corners connect to First Mezzanine above (see attached drawing – MAIN FLOOR PLAN).

c. First Mezzanine: The First Mezzanine level is comprised of a series of steel stairs and catwalks (Levels 1A, 1B and 1C – see attached drawing - FIRST MEZZANINE PLAN) covered with "L" shaped steel frames with 1-1/4" thick steel grating. Stair connections to Main Floor level are located in the east and south corners of the building.

d. Second Mezzanine: The Second Mezzanine level is a series of steel stairs and catwalks (Levels 2A and 2B – see attached drawing - SECOND MEZZANINE PLAN) covered with "L" shaped steel frames with 1-1/4" thick steel grating. Stair connections to First Mezzanine and Third Mezzanine are located in the east and south corners of the building.

e. Third Mezzanine: The Third Mezzanine level is a series of steel stairs and catwalks (Levels 3A, 3B and 3C – see attached drawing - THIRD MEZZANINE PLAN) covered with "L" shaped steel frames with 1-1/4" thick steel grating. Stair connections to the Second Mezzanine are located in the east and south corners. Stair connection to the Fourth Mezzanine is located in the north corner.

f. Fourth Mezzanine: The Fourth Mezzanine level is a series of steel stairs and catwalks (Levels 4A, 4B, 4C, 4D and 4E – see attached drawings – THIRD MEZZANINE PLAN and CLERESTORY PLAN) covered with "L" shaped steel frames with 1-1/4" thick steel grating. Stair connection to Third Mezzanine is located in the east corner. A stair connection to the Fifth Mezzanine is located in the east corner.

f. Fifth Mezzanine: The Fifth Mezzanine level is a series of steel stairs and catwalks (Level 5 – see attached drawing CLERESTORY PLAN) covered with "L" shaped steel frames with 1-1/4" thick steel grating. Stair connections to the Fourth Mezzanine and Main Roof Area are located in the east corner.

2. Stairways:

Stairways to the upper mezzanine floor levels are open to the main floor area and composed of steel stringers with open risers, stair treads and stair landings are composed of "L" shaped steel frames with 1-1/4" thick steel grating (see attached sketch). Stairways are not enclosed at the tops and bottoms.

3. Flooring:

The flooring at the main (first) floor level is an exposed concrete slab on grade at the throughout with abandoned poured concrete equipment slabs, poured concrete equipment curbs and poured concrete trenches and tunnels.

1" x 1" ceramic tile is installed over poured concrete floor deck at the restroom located in the west corner of the main (first) floor.

At the second floor, the northwest corner room only has a poured concrete floor deck on steel structure. The floor deck connects to the First Mezzanine.

At the third floor, the west corner room (former office) only has a plywood floor deck over dimensional lumber, wood framing. The floor deck connects to the Third Mezzanine.

4. Wall and ceiling finish:

Walls. Walls are painted brick masonry, painted concrete masonry, and glazed tile.

Ceilings. Ceilings are exposed pre-cast concrete slabs.

5. Openings:

a. Doorways and doors:

Interior doors throughout the building have been removed. Hollow metal door frames remain at select locations.

b. Windows:

Windows are composed of large 2-1/2" thick, aluminum frames with translucent glazing panels. The lower portions of the windows remain operational. Windows are awning style operation opening to the exterior of the building.

c. The original steel sash, multiple-light windows are extant at the upper half of the north bay of the west façade; and at the upper half of the west bay of the north façade.

6. Decorative features and trim:

The interior of the building is void of any decorative features and trim.

7. Hardware:

All interior doors and associated hardware have been removed. Exterior door hardware is plain, steel and brass knobs and locks of varying profiles.

8. Mechanical equipment:

a. Heating, air conditioning, ventilation:

Heating, ventilating and associated devices have been removed.

b. Lighting:

Light fixtures, shades and associated devices have been removed.

c. Plumbing:

One (1) restroom was located in the west corner of the building at the 1st floor only. All plumbing fixtures have been removed. One (1) individual shower stall area is located in the west corner of the restroom.

d. Distinctive Features.

No distinctive features present.

D. Site:

1. General setting and orientation:

Building 45 is located in the eastern expansion area of Scott Air Force Base that was developed between 1937 and 1940. The site is bordered by Yonkie Street (formerly "C Street") on the southeast, Fifth Street on the north, and a parking lot between Building 45 and Building 18 (former gas station) on the southwest.

The building is oriented approximately 45 degrees off of the cardinal axes. The principal entry to the building is through the southwest façade. The longitudinal axis of the building is oriented southwest to northeast

2. Historic landscape design:

The historic landscape design was a very simple, unplanned, open lawn space along the northeast and northwest sides of the building with open lawn areas, crushed stone drives and poured concrete aprons along the southwest and southeast sides of the building. An abandoned, at-grade, vehicular scale is located at the southeast side of the building.

3. Outbuildings:

There are no extant outbuildings.

PART III. SOURCES OF INFORMATION

A. Original Architectural Drawings:

Original architectural drawings are on file in the office of the engineer (375 CES/CECD) at Scott Air Force Base, Illinois.

B. Early Views:

1. Early views of Building 45 are found at the Office of the Base Historian (375 AW/HO), Scott Air Force Base, Illinois:

   a. Scott Air Force Base, Real Estate Records, 1917 – 1943. Bound volume with property data cards.
   b. Aerial Views – Construction Scott Field, ILL.
   c. Photo "Soon a Memory" in Command Post, Friday, January 28, 1972.
   d. Central Heating Plant Conversion #6 Oil Burners at Boiler No. 1, 50% Complete, 13 December 1971.
   e. Central Heating Plant Conversion, Typical Oil Burner, 100% Complete as of 18 May 1972.
   f. Central Heating Plant Conversion, Oil Burner Control Panels, 100% Complete as of 18 May 1972.
   g. Central Heating Plant Conversion, 420000 Fuel Oil Tank, 100% Complete as of 18 May 1972.

C. Interviews:

1. Mel Oller, Operations Flight Chief, (mechanic at Central Heating Plant from 1974 to 1987), March 24, 2008, Scott Air Force Base, Illinois.

D. Bibliography:

1. Primary and unpublished sources:

   a. Scott Air Force Base, Real Estate Records, 1917 – 1943. Bound volume with property data cards at the Office of the Base Historian, Scott Air Force Base.
   b. Original construction plans, and modification plans in the office of the engineer (375 CES/CECD), at Scott Air Force Base, Illinois.

c. Toftemark, Elizabeth; Chief, Conservation; Scott Air Force Base. Personal communication, October 24, 2007.

2. Secondary and published sources:

a. National Register of Historic Places Registration Form, Scott Field Historic District, September 13, 1993.
b. SSGT. Randy Hamm. "Scott attacks pollution problem." Command Post, O'Fallon, Illinois, VOL. 4 NO. 18, Friday, July 30, 1971.

E. Likely Sources Not Yet Investigated:

Locally knowledgeable informants.

PART IV. METHODOLOGY OF RESEARCH

A. Research Strategy:

1. Preliminary investigation of the property through on-site visit.
2. On-site interviews with former employee.
3. Records search at the Office of the Base Historian, and at the Office of Engineering (375 CES/CECD), Scott Air Force Base.
4. Review of Command Post newspaper articles from 1971 and 1972.

B. Actual Research Process:

The research process followed the strategy above. However, no significant early newspaper articles or early published histories were found.

C. Archives and Repositories Used:

Scott Air Force Base - Office of the Base Historian, and the Office of Engineering (375 CES/CECD), Scott Air Force Base, Illinois.

E. Research Staff:

1. Primary Preparer:

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White & Borgognoni Architects P.C. - Carbondale, Illinois

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3. Delineator:

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PART V. PROJECT INFORMATION

(Provided by IHPA)

Index to Original Construction Drawings

Illinois Historic American Building Survey
Building 45 (Former Building 13/Steam Plant)
IL HABS Number S-2008-1
Scott Air Force Base, Illinois

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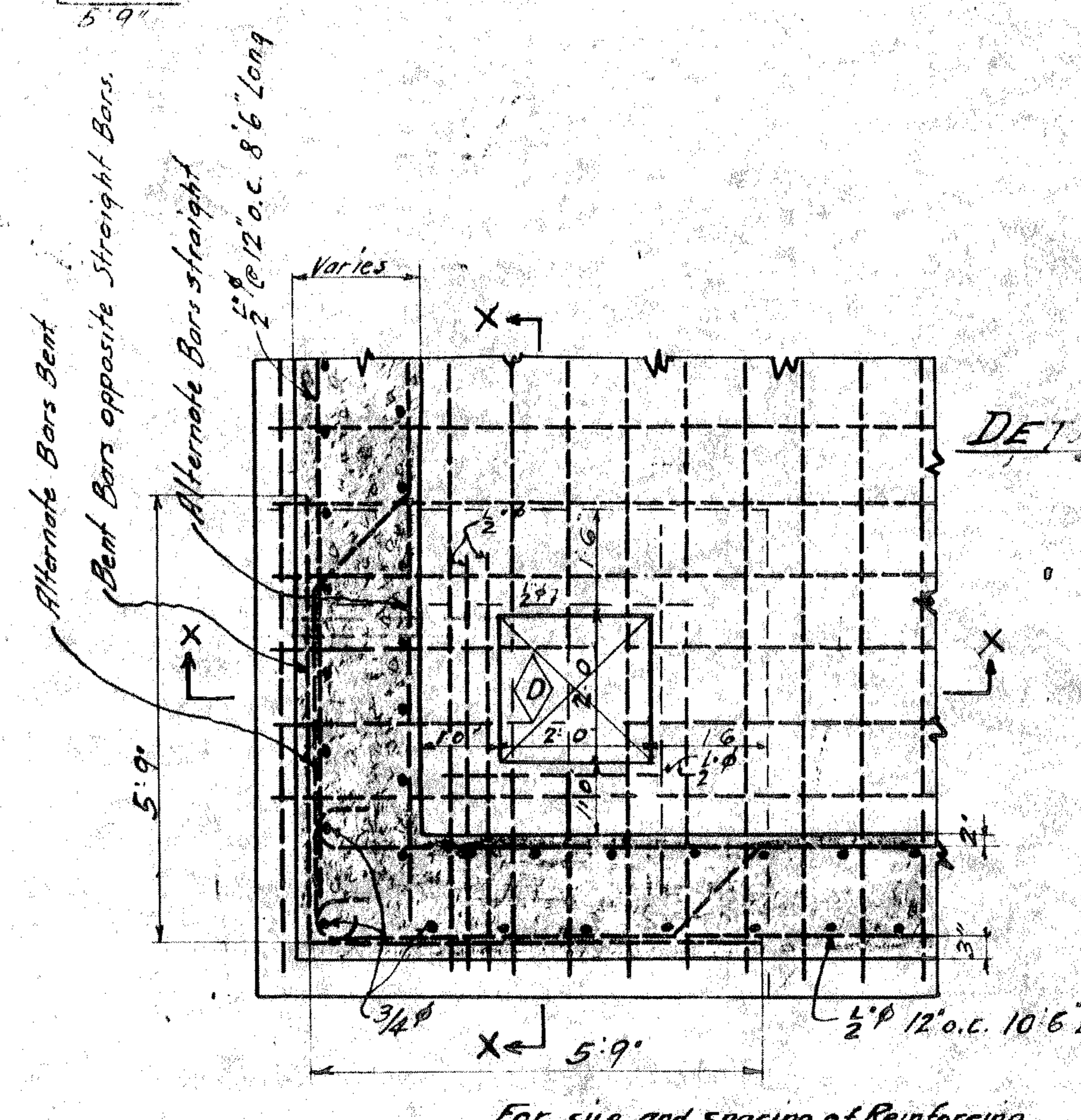
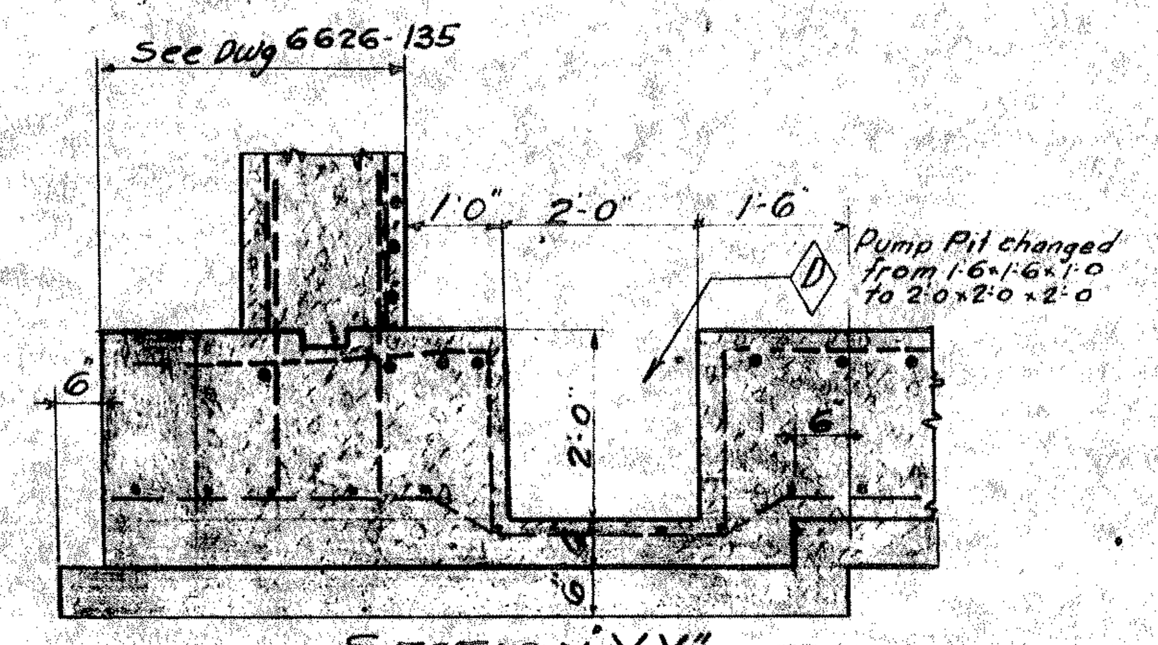


For size and spacing of Reinforcing see Section 1-1 on Foundation plan.

PART PLAN OF TRACK HOPPER SHOWING LOCATION OF SUMP & BENDING OF REINFORCING.



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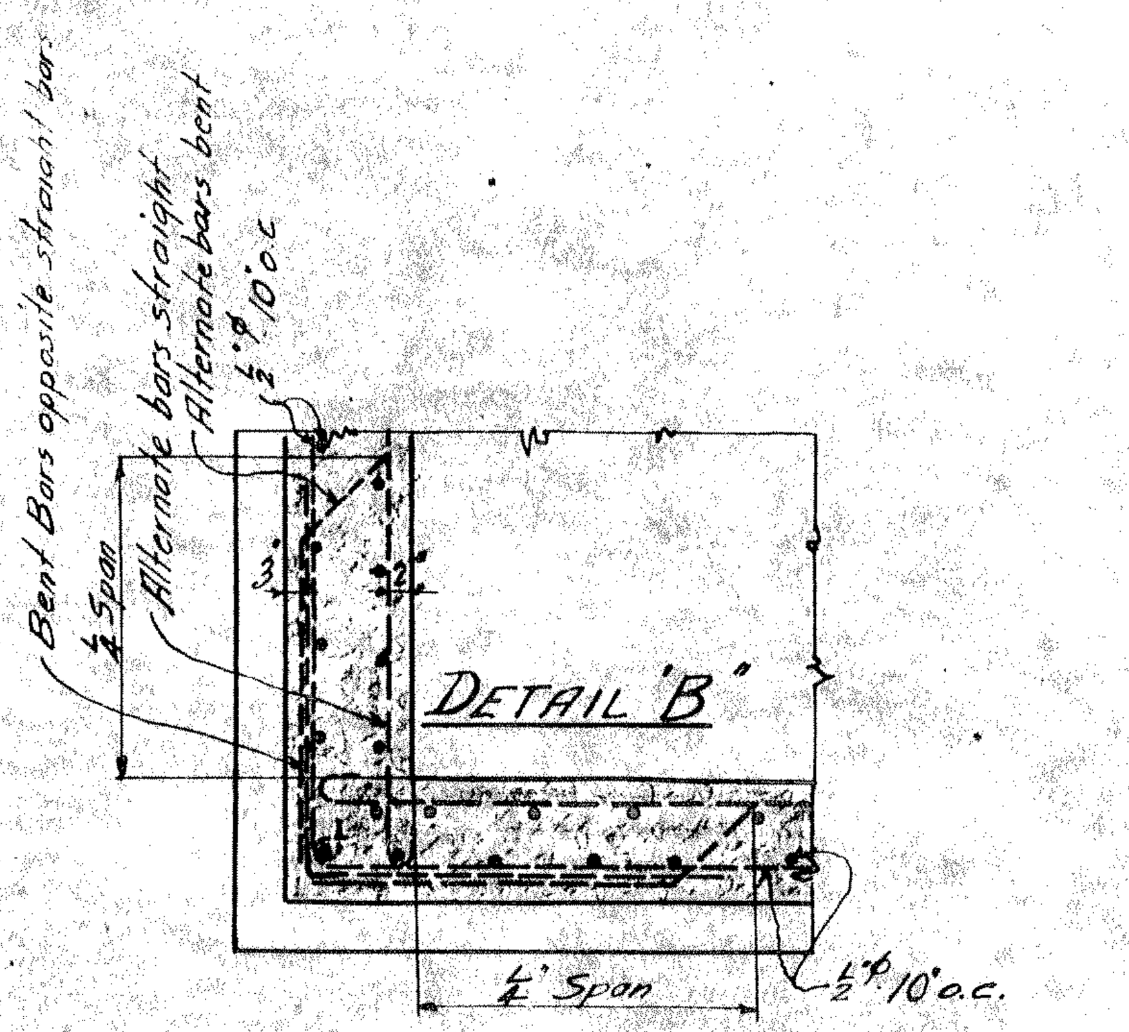
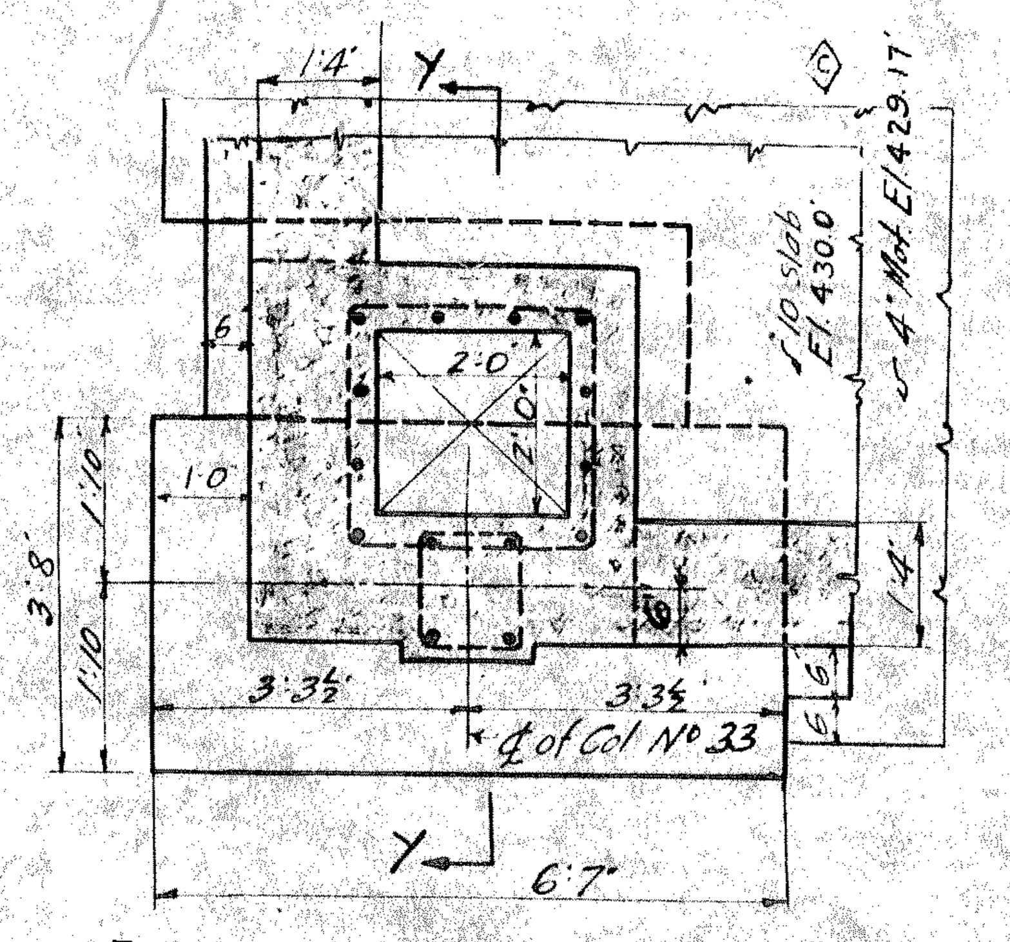
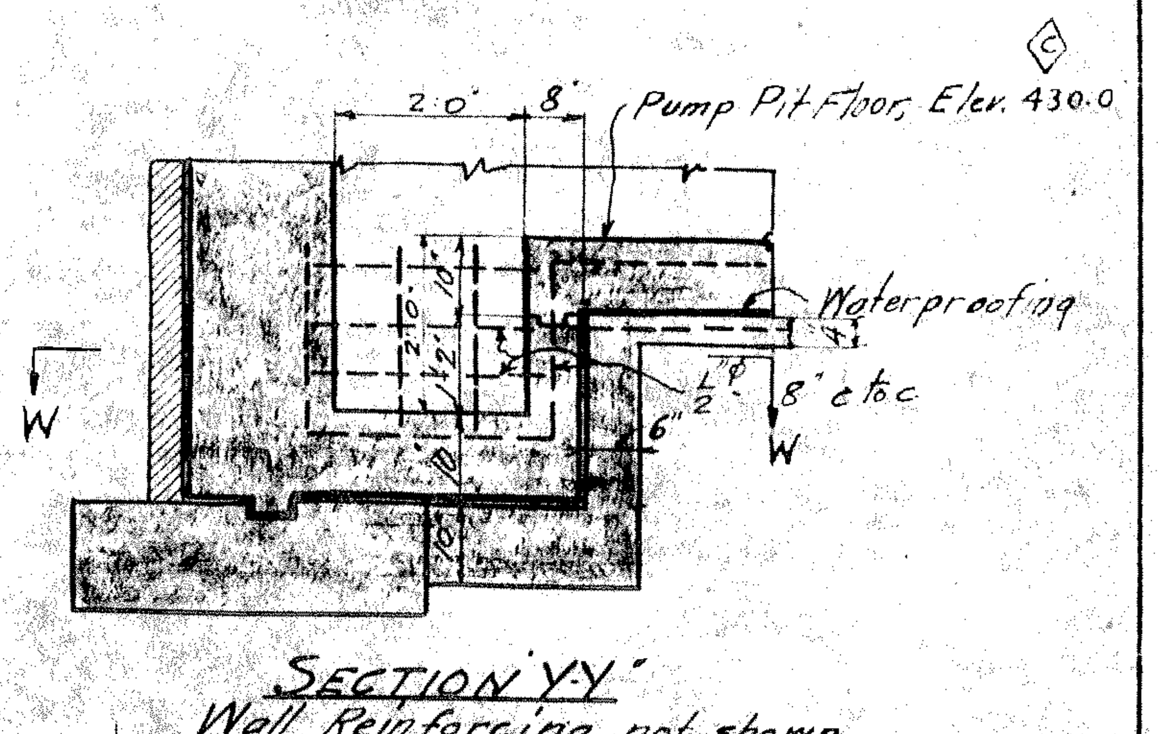


For size and Spacing of Wall Reinforcing see Sections 1-1 & 2-2 on Foundation Plan.

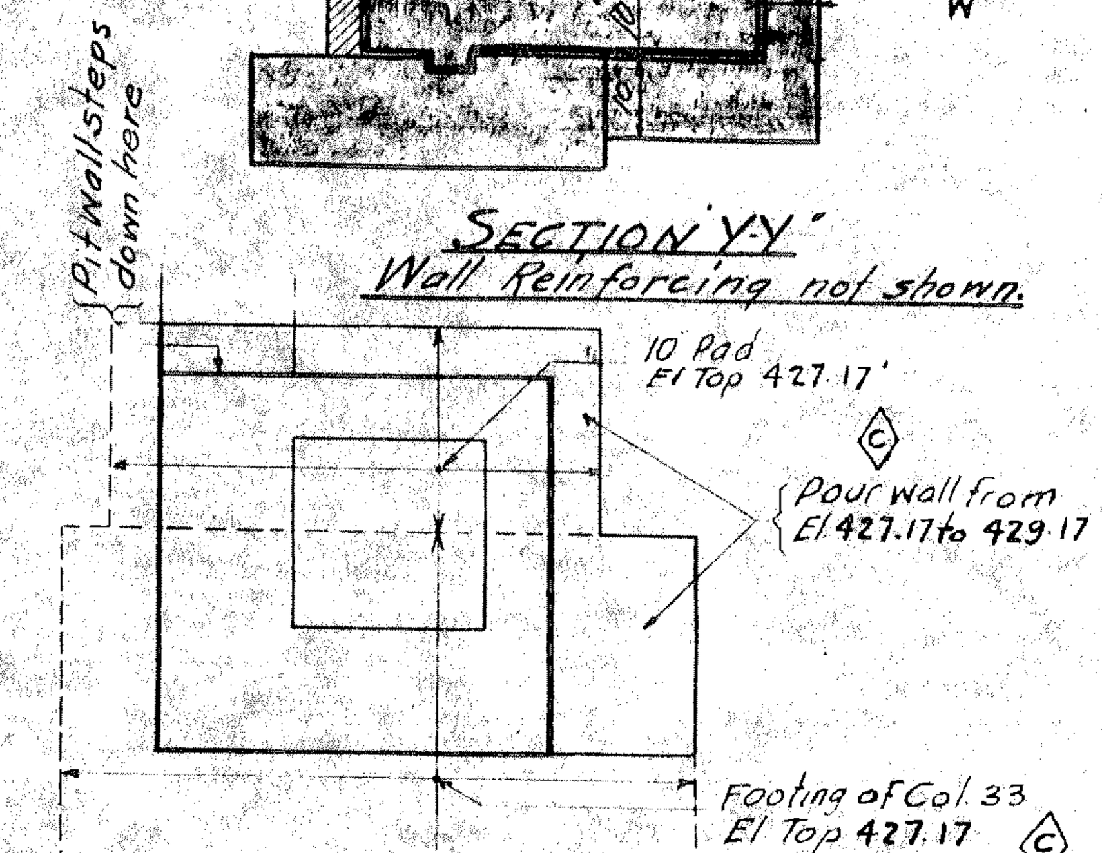
PART PLAN OF ELEVATOR & PUMP PITS SHOWING BENDING OF WALL REINFORCING



DETAIL OF SUMP IN PUMP PIT.



SECTION "YY"
Wall Reinforcing not shown.



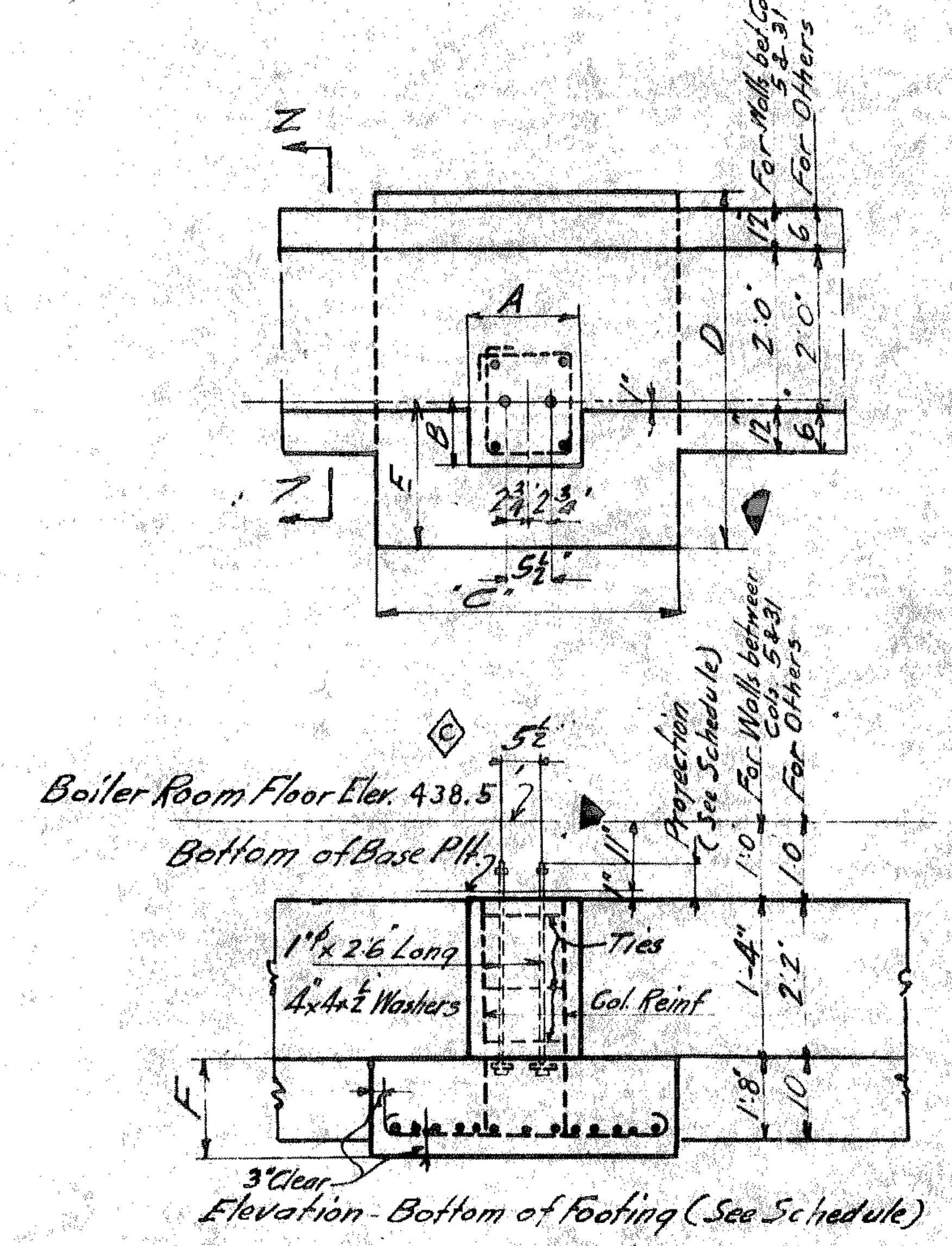
SECTIONAL PLAN "W-W"

CONCRETE COLUMN AND FOOTING SCHEDULE (See Typical details of Wall and Column Footings)													
	COLUMNS						FOOTINGS						
	A	B	Vertical Reinforc	Ties	Elev. Top of Col.	Bolt Proj.	C	D	E	F	Reinf. each way	Elev Bot of Foot's	Remarks
1	See	Plan	4-3/4"φ	3/8"φ 12" c.c.	437.5	4"	1'0" Projec.			1'8"	None	[illegible]	Col Ties (16 x 20)
2	1'10"	10"	do	3/8"φ-12" cc	do	4"	1'3" Projec.			2'0"	None	[illegible]	do
3	1'4"	10"	do	3/8"φ 12" c.c.	do	4"	1'0" Projec.			1'8"	None	[illegible]	do
4 & 35	See	Plan	do	3-3/8"φ	do	4"	1'0" Projec.			1'8"	None	[illegible]	do
5	See Plan	1'0"	4-1"φ	3/8"φ 16" o.c.	do	4 1/2"	7'6"	7'6"	3'4"	2'0"	13-1/2"φ	[illegible]	
8-12 & 16	1'4"	10"	4-3/4"φ	3-3/8"φ	do	4"	5'9"	5'9"	2'5"	1'6"	9-1/2"φ	434.0	
9-13	2'0"	12"	4-1"φ	4-3/8"φ	do	4 1/2"	See	Detail				[illegible]	Combined Footing
17	2'0"	1'1"	4-1"φ	3-3/8"φ	do.	5 1/2"	11'0"	11'0"	5'2"	2'10"	15-3/4"φ	[illegible]	
20 & 28	1'4"	10"	4-3/4"φ	3-3/8"φ	do	4"	7'0"	7'0"	3'1"	1'10"	12-1/2"φ	[illegible]	
25	2'0"	1'0"	4-1"φ	3-3/8"φ	do	5 1/2"	9'0"	9'0"	4'3"	2'4"	11-3/4"φ	[illegible]	
31	See	Plan	4-1"φ	3-3/8"φ	do	5"	8'6"	8'6"	4'3"	2'4"	13-5/8"φ	[illegible]	
33	1'4"	10"	4-3/4"φ	3/8"φ 12" c.c.	do	4"	6'7"	3'8"	1'10"	1'2"	12-3/8"φ	[illegible]	
34	See Plan	10"	4-3/4"φ	3/8"φ 12" c.c.	do	4"	6'7"	4'8"	1'9"	1'8"	11-1/2"φ Short Way	[illegible]	Col Ties (16 x 20)
36	1'4"	10"	4-3/4"φ	3-3/8"φ	do	4"	6'8"	6'8"	2'11"	1'10"	11-1/2"φ	433.67	
37	1'4"	10"	4-3/4"φ	3/8"φ 12" o.c.	do	4"	5'8"	5'8"	2'4"	1'6"	11-3/8"φ	[illegible]	
38	See	Plan	4-3/4"φ	3/8"φ 12" c.c.	do	4"	6" Projec.			0'10"	Pump Pit Reinf.	[illegible]	Col Ties (16 x 20)

Col Footing 3 Lowered

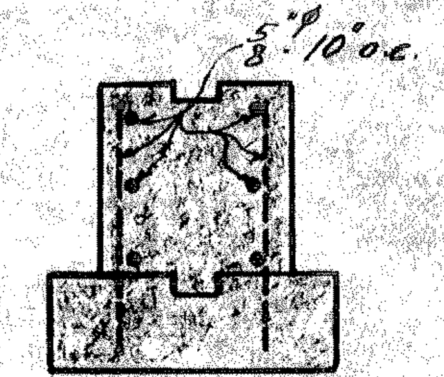
All Footing Bars Hooked 180°

Elevations changed due to changing El. of Boiler Room Floor from 289.50 to 438.50

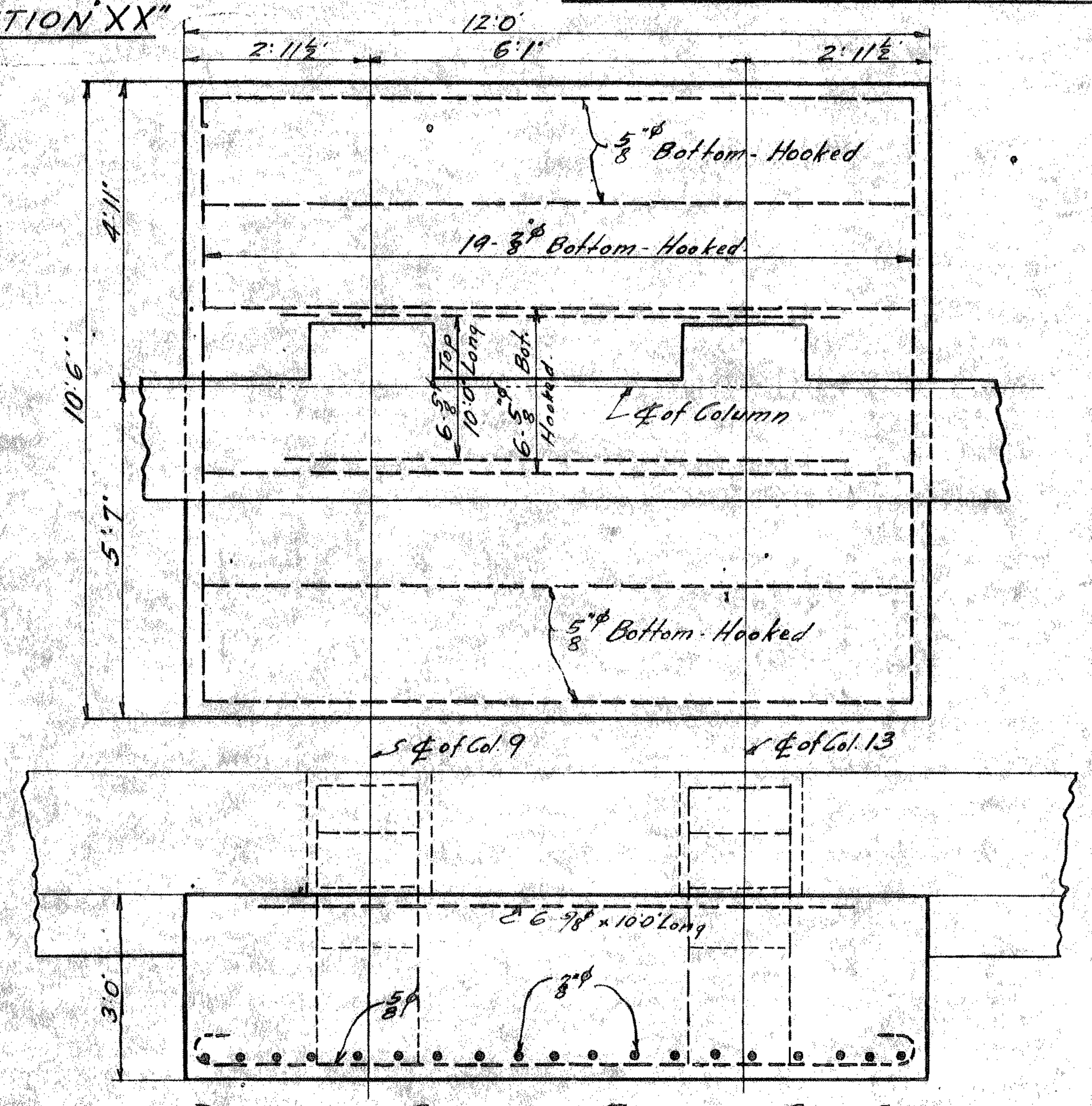


Elevation - Bottom of Footing (See Schedule)

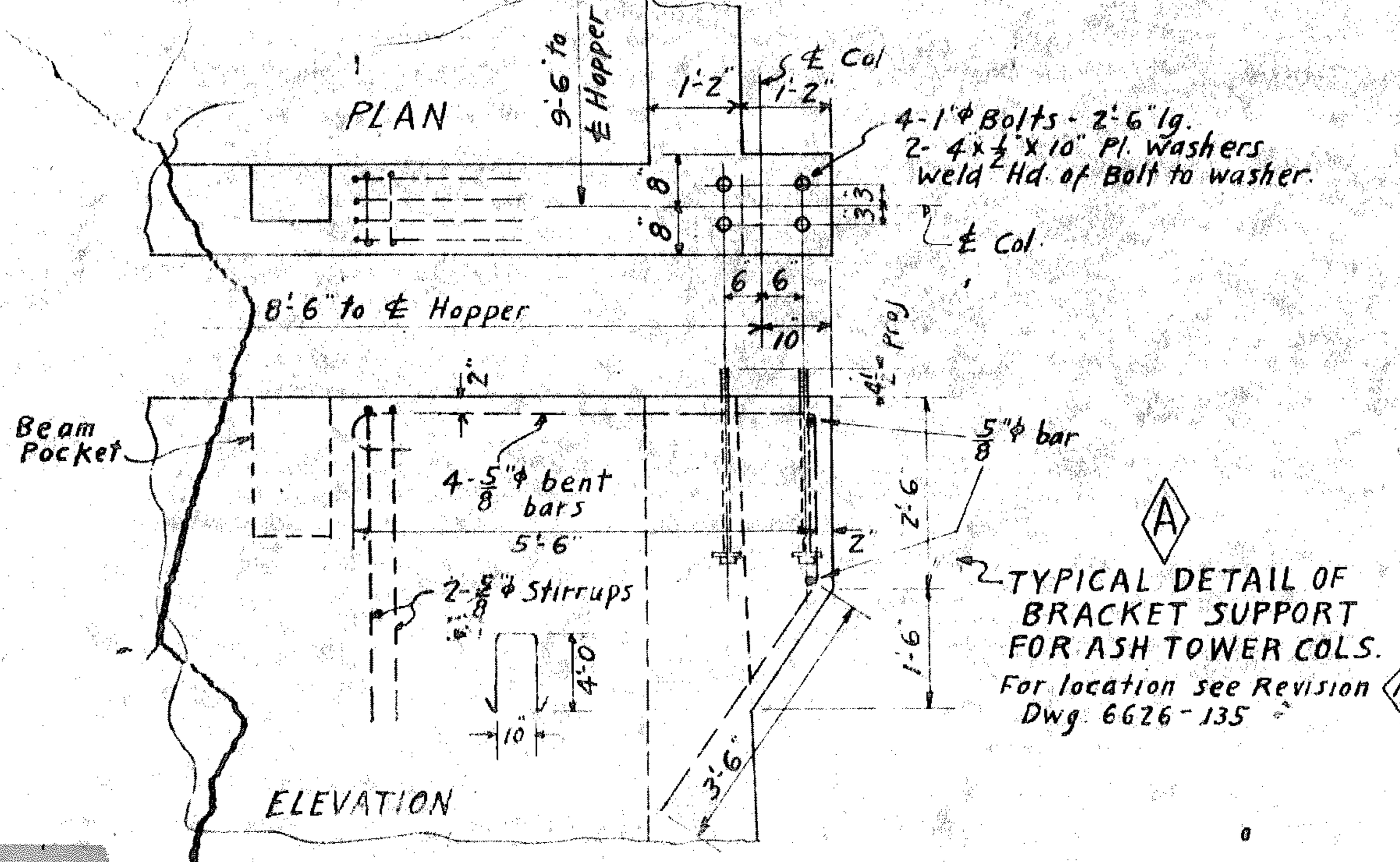
TYPICAL DETAILS OF WALL & COLUMN FOOTING



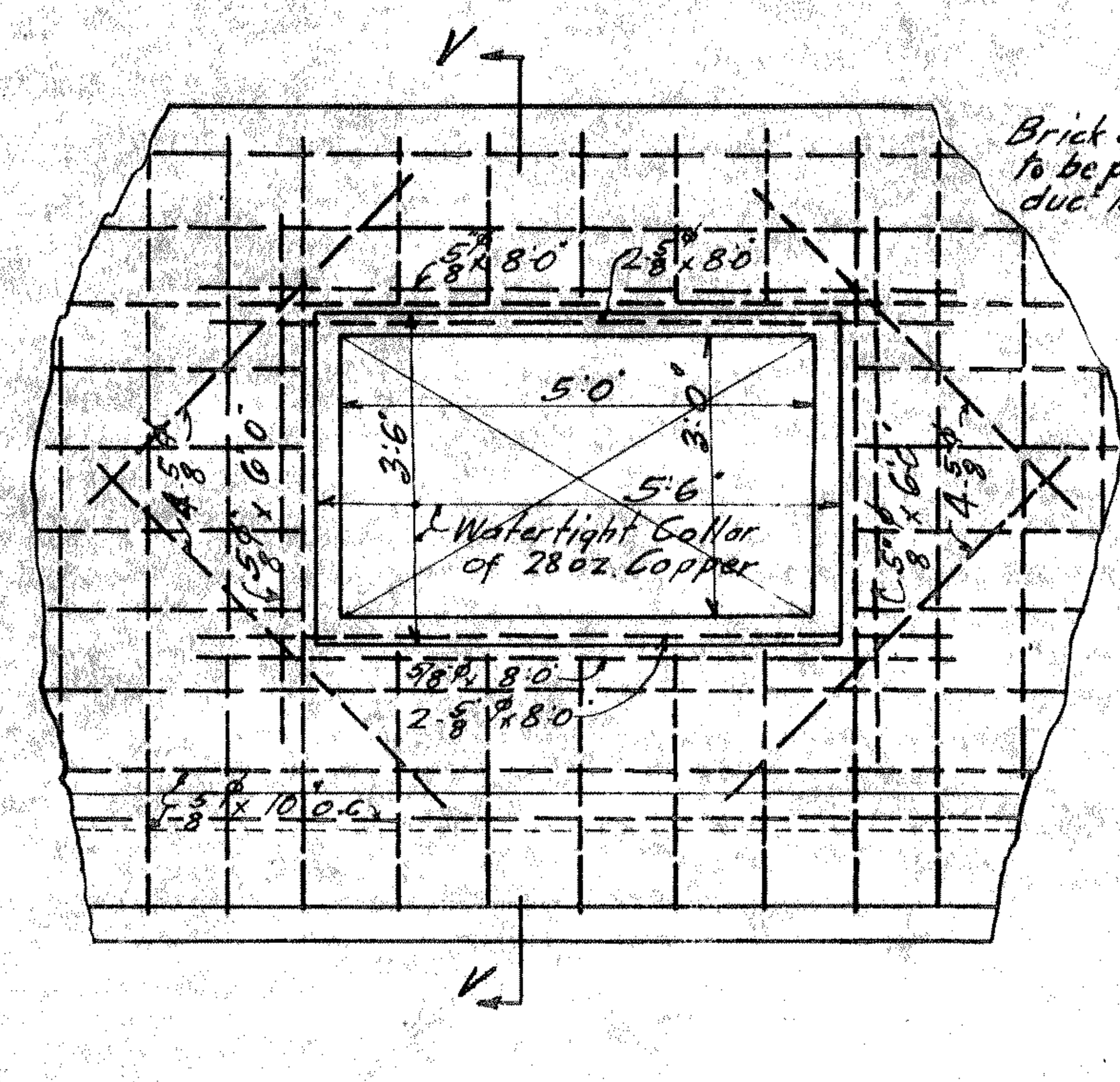
SECTION "ZZ"



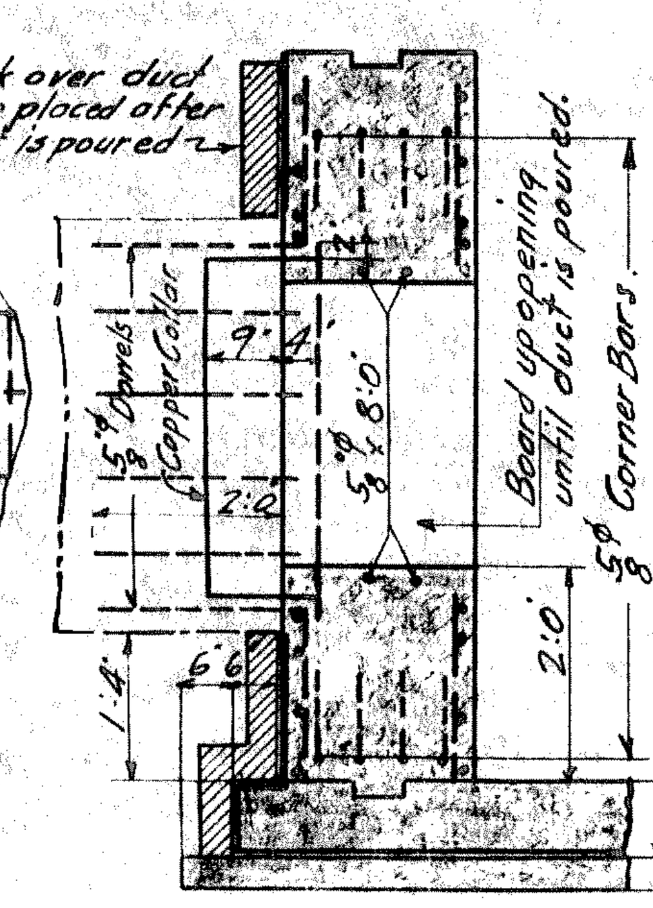
DETAIL OF COMBINED FOOTINGS COL'S 9 & 13



TYPICAL DETAIL OF BRACKET SUPPORT FOR ASH TOWER COLS.
For location see Revision (A) Dwg. 6626-135



DETAIL OF DUCT OPENINGS IN PUMP PIT.

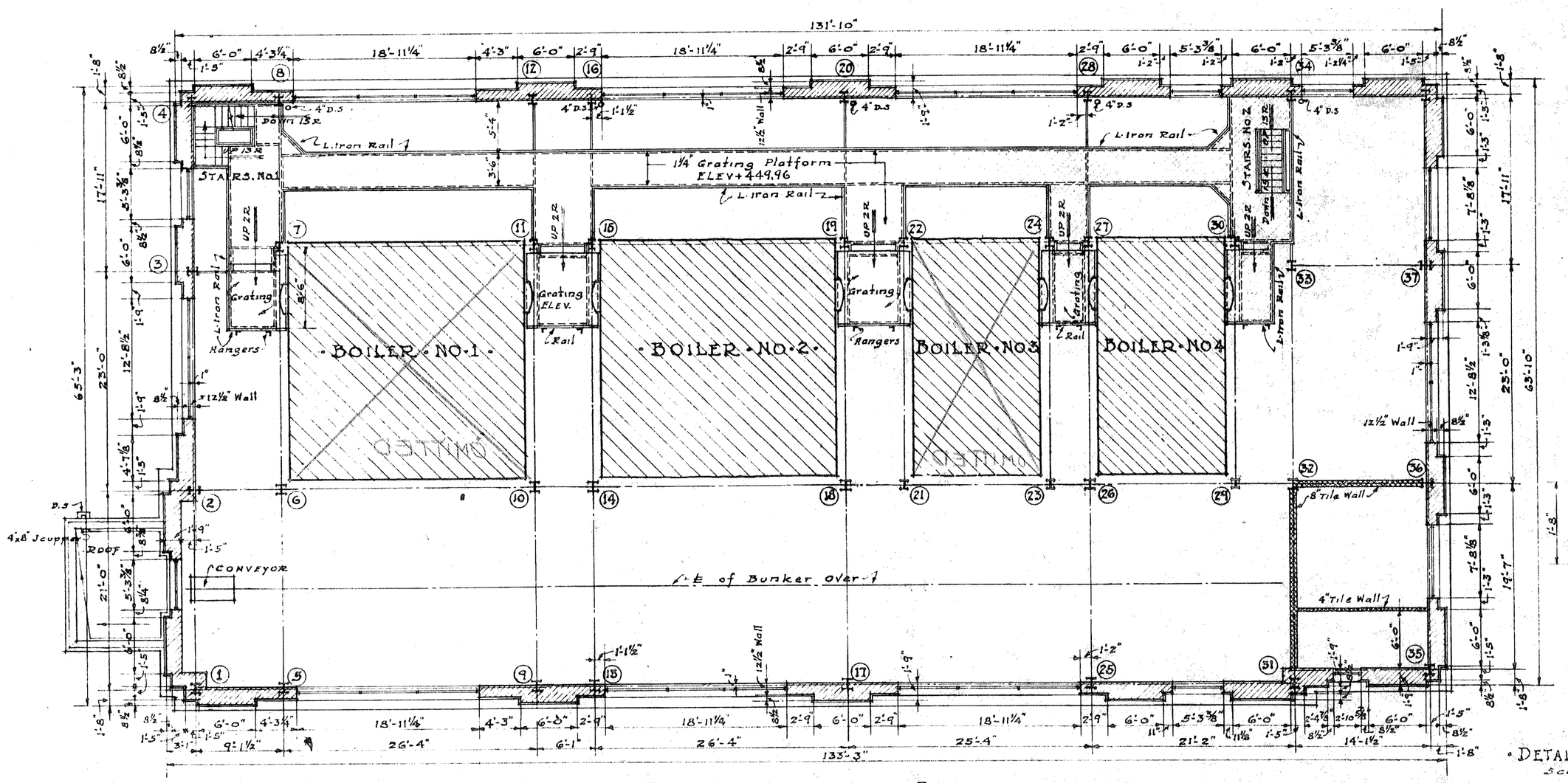


SECTION "VV"

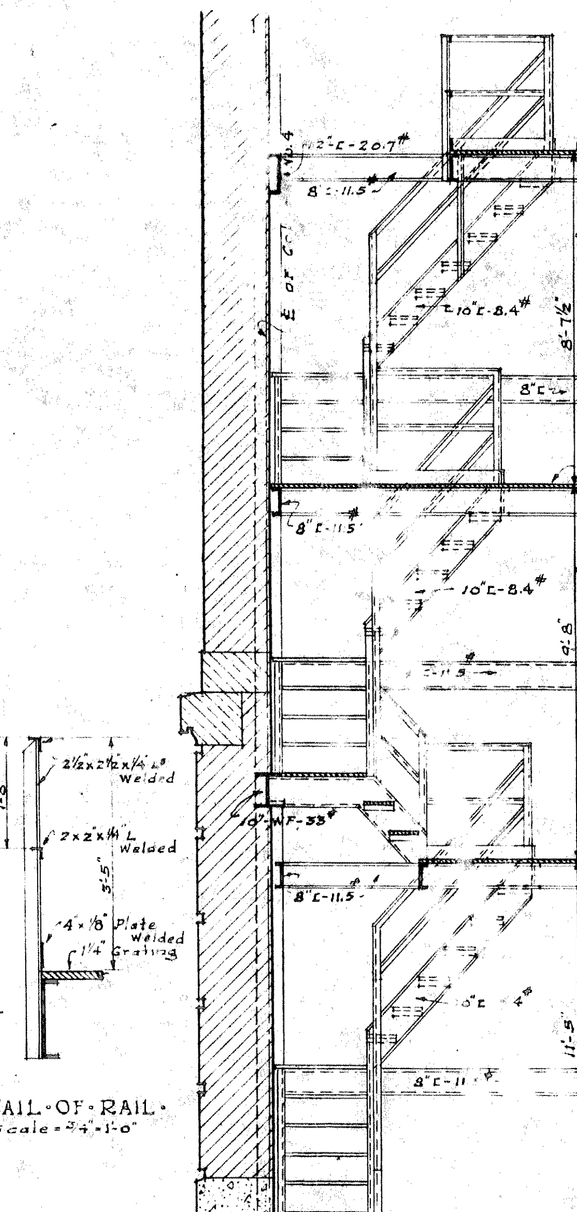
SCALE	CONSTRUCTION DIVISION OFFICE OF THE QUARTERMASTER GENERAL
1/2" = 1'0"	SCOTT FIELD, ILLINOIS HEATING PLANT FOUNDATION DETAILS
REVISIONS: (A) 8/12/38; (B) 8/13/38; (C) 8/25/38; (D) 9/9/38	DRAWN BY Jones; TRACED BY Howard; CHECKED BY; APPROVED BY DIRECTION Captain; DATE Aug 11, 1938; PLAN NUMBER 6626-136

BL60045-81

Plans only

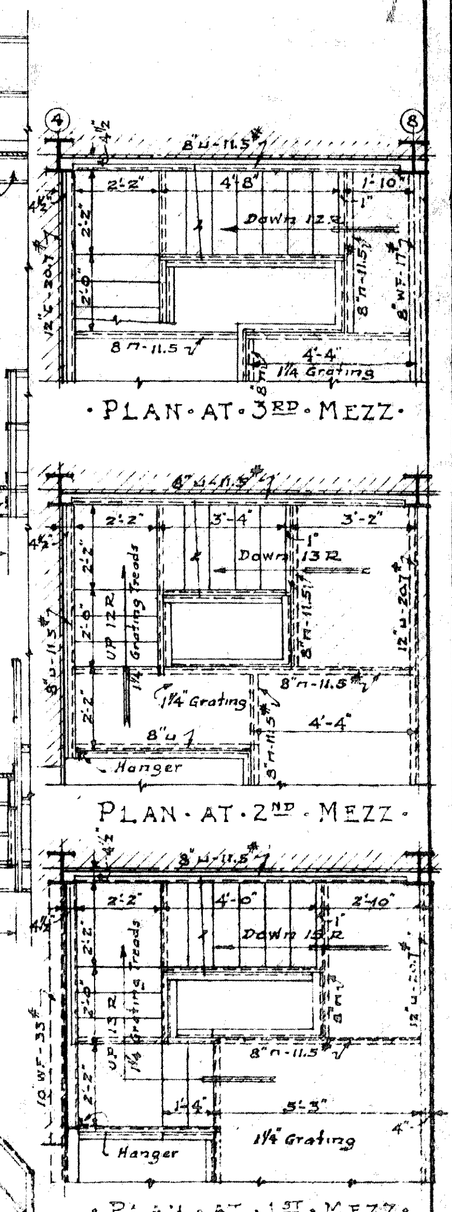


• FIRST • MEZZANINE • PLAN •



• DETAIL • OF • RAIL •
Scale = 3/4" = 1'-0"

DETAIL • OF • STAIRS • NO. 1 •
Scale = 3/8" = 1'-0"

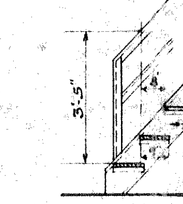


• PLAN • AT • 3RD • MEZZ •

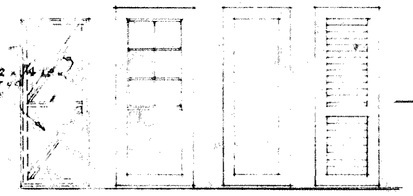
• PLAN • AT • 2ND • MEZZ •

• PLAN • AT • 1ST • MEZZ •

• PLAN • AT • BOILER • RM • FLOOR

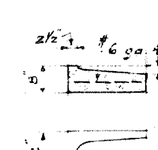


• STAIR • DETAIL •
Scale = 3/8" = 1'-0"

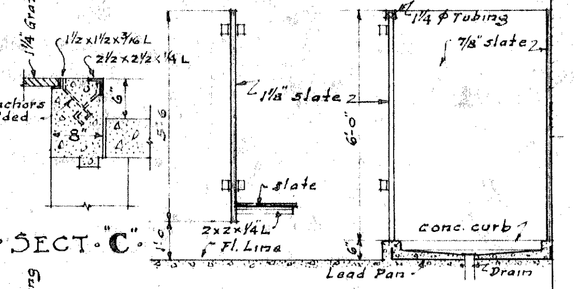


• DOOR • SCHEDULE •

1	3'-7" x 7'-10" - Metal - Glazed - See detail
2	4'-2" x 7'-10" - Metal - Glazed - See detail.
3	2'-8" x 9'-8" - Glazed - Metal - See detail
4	3'-0" x 7'-0" - Metal - Glazed - 9"L Frame
5	2'-6" x 7'-0" - Metal - 9"L Frame
6	2'-8" x 7'-6" - Metal - Louver - 6"L Frame.
7	3'-0" x 7'-0" - Metal - Glazed - 9"L Frame.
8	2'-6" x 6'-10" - Metal - 4"L Frame - See detail
9	2'-2" x 6'-6" - Metal - 4"L Frame same as door #8.
10	2'-2" x 2'-8" - A.P.M. - 4"L Frame.
11	2'-8" x 6'-8" - A.P.M. - 4"L Frame.

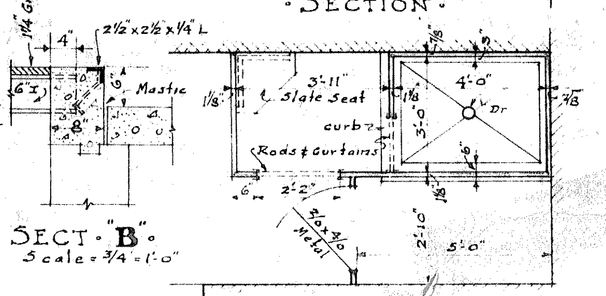


• SPLASH • BLOCK •



• SECT • "C" •

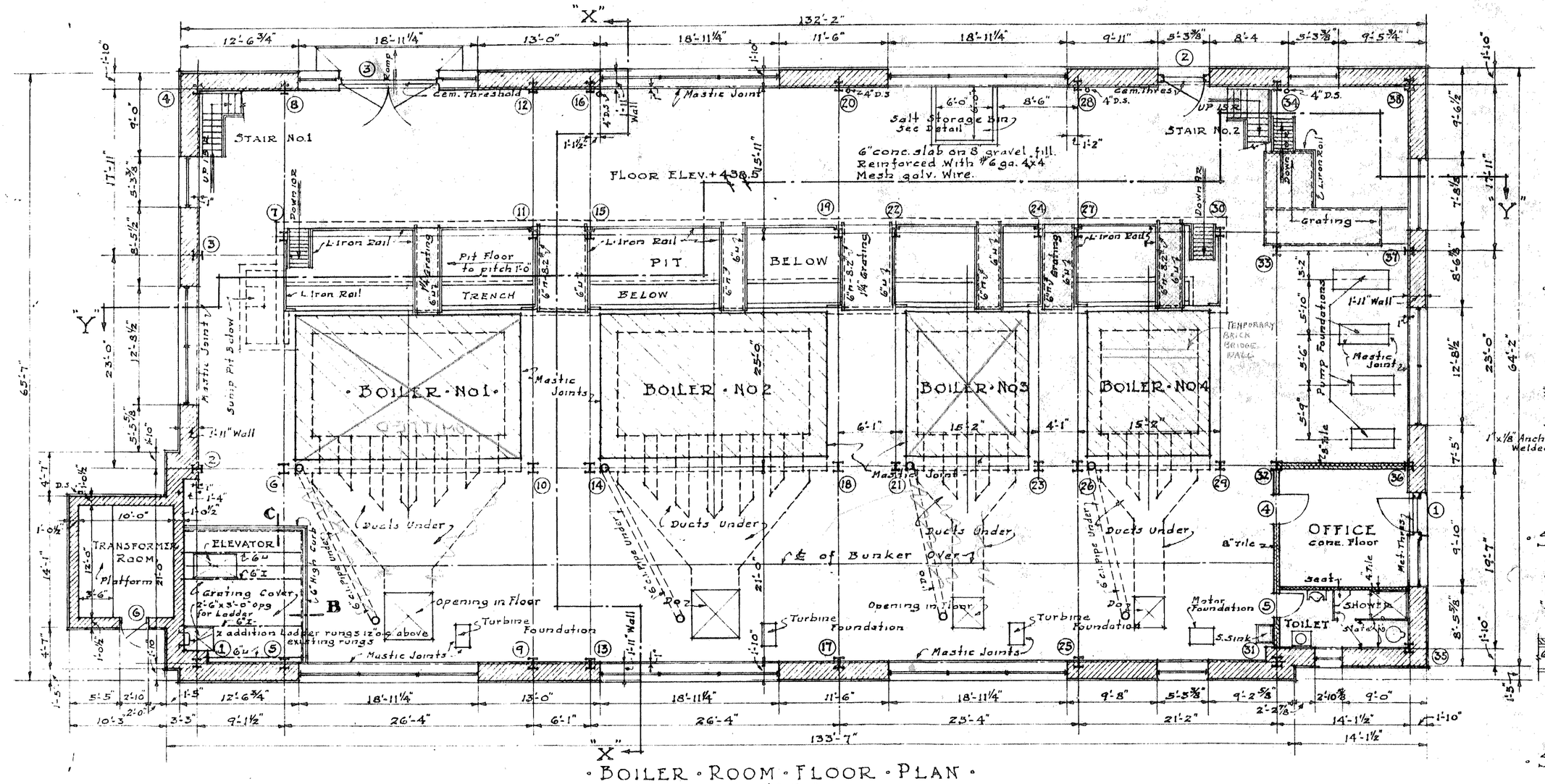
• SECTION •



• SECT • "B" •
Scale = 3/4" = 1'-0"

• PLAN •

• DETAILS • OF • SHOWER •
Scale = 3/8" = 1'-0"



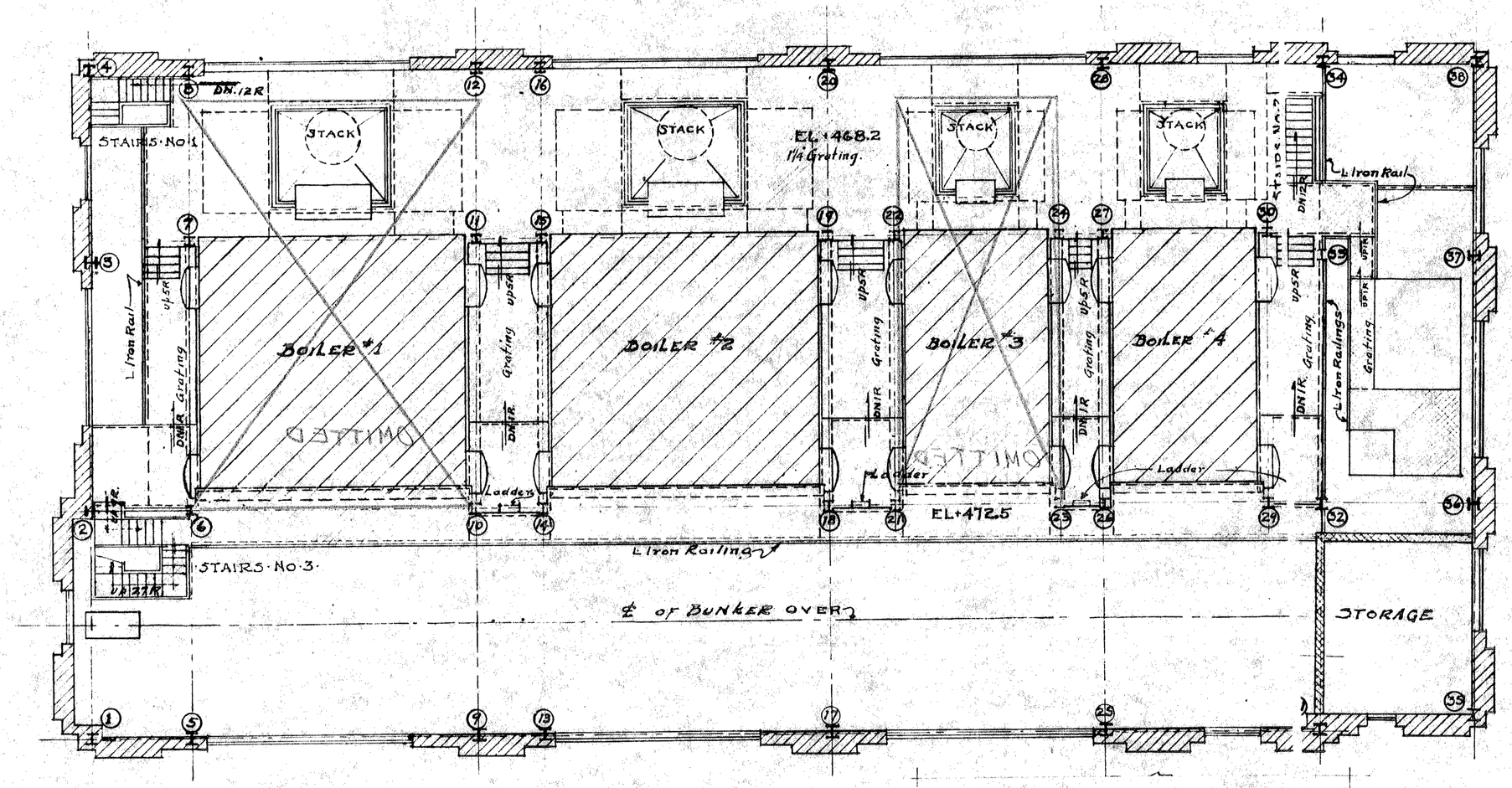
• BOILER • ROOM • FLOOR • PLAN •
Scale = 1/8" = 1'-0"

GENERAL • NOTE

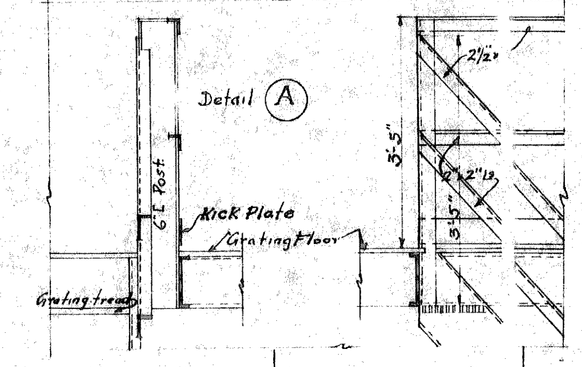
FRAMING • PLATFORMS • TRENCHES
FOUNDATIONS IN CONNECTION WITH
PMENT SHALL BE SUBJECT TO THE
PMENT PURCHASED
AND FIT GRATING NEATLY AROUND PIPES AND
PMENT AS APPROVED BY THE C.Q.M.

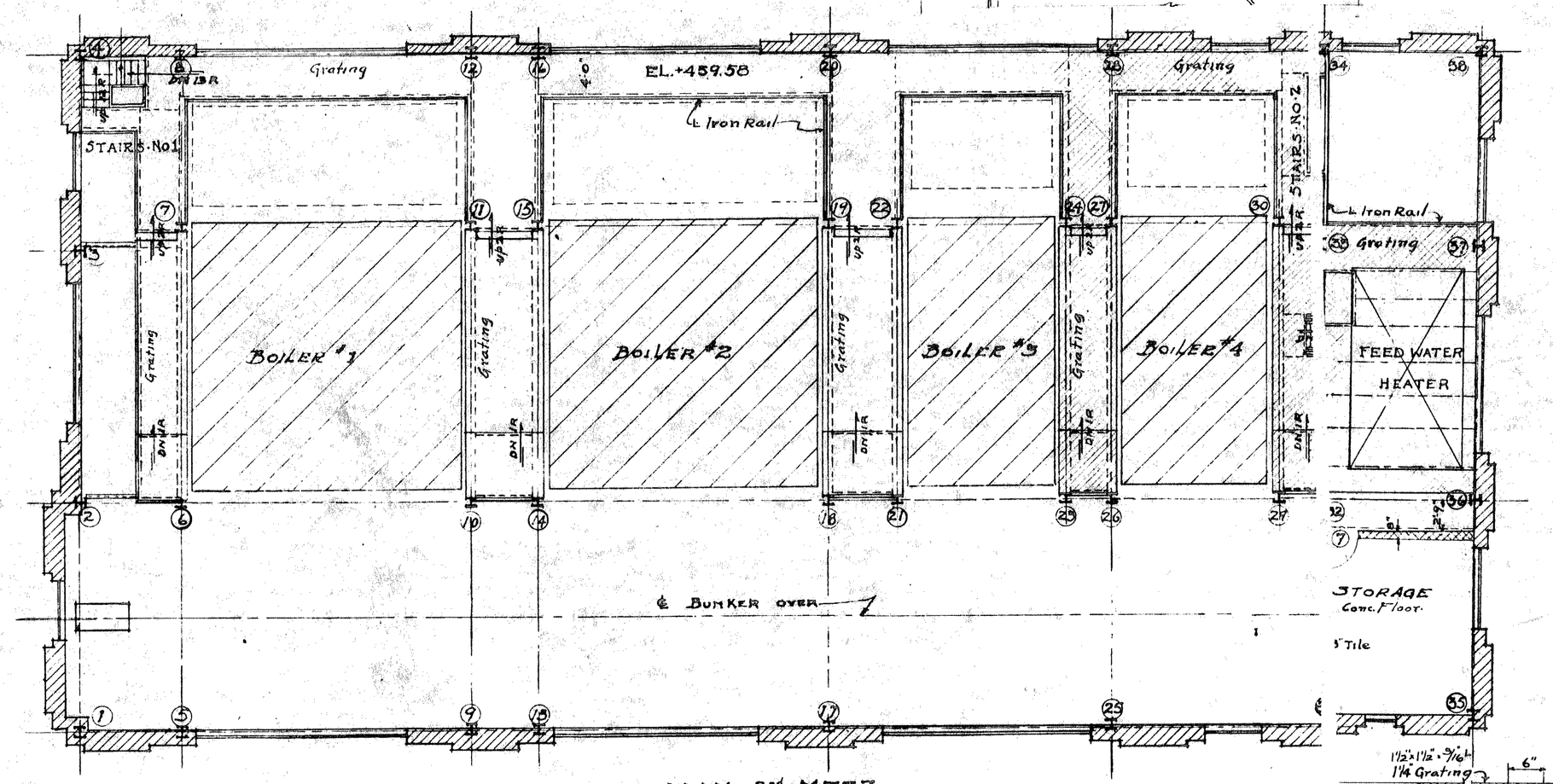
SCALE: AS NOTED	CONSTRUCTION DIVISION, OFFICE OF THE QUARTERMASTER GENERAL		
REVISIONS	• SCOTT • FIELD • ILLINOIS •		
	• CENTRAL • HEATING • PLANT •		
	BOILER • FLOOR - FIRST • MEZZ • & • DETAIL		
DRAWN BY: Guy	CHECKED BY:	APPROVED BY DIRECTION: Elmer E. Kelton, CAPTAIN, J.M.C.	DATE: NOV. 9, 1918
TRACED BY: Guy			PLAN NUMBER: 6626-137

BL-G 6045-81

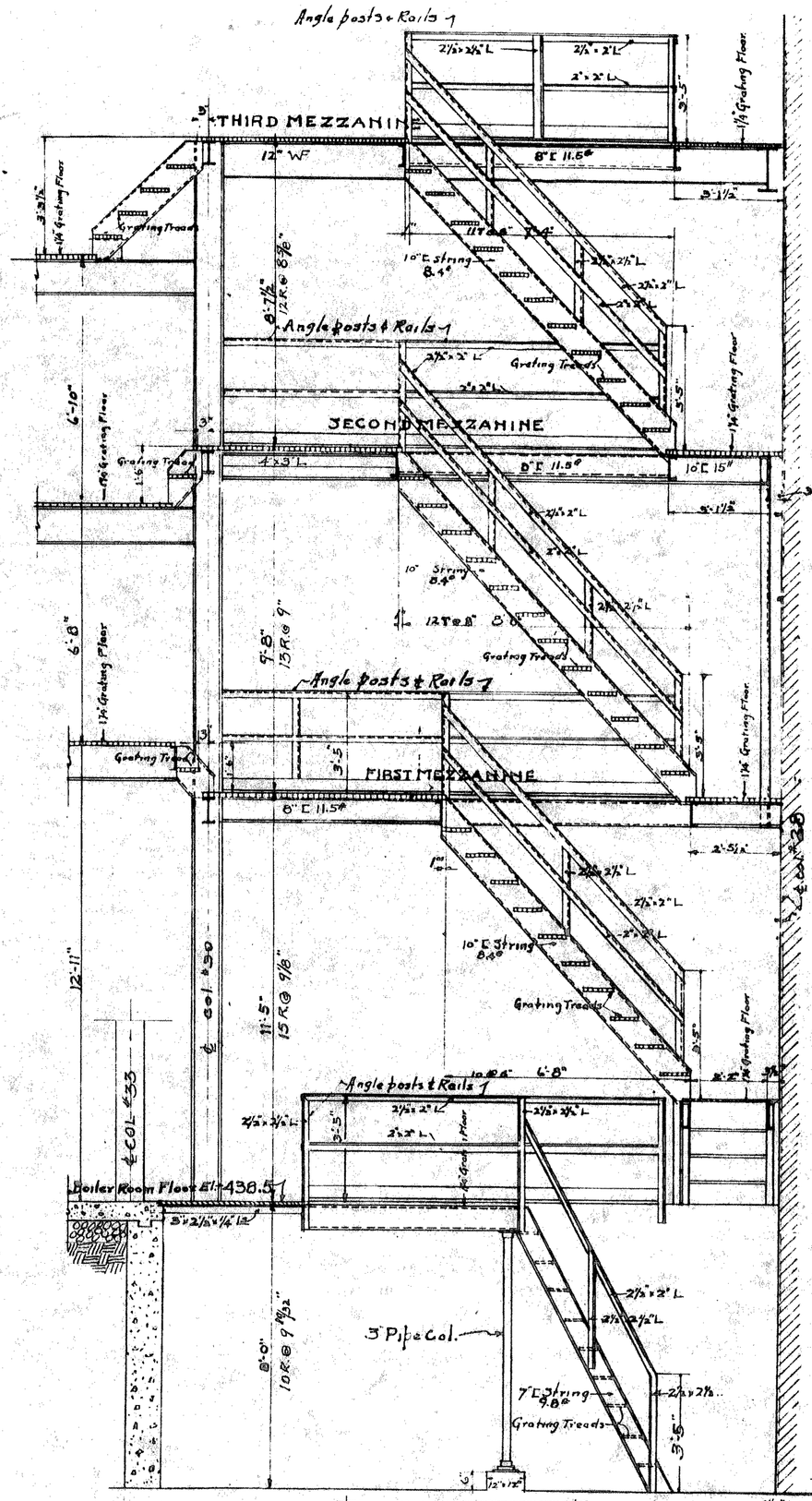


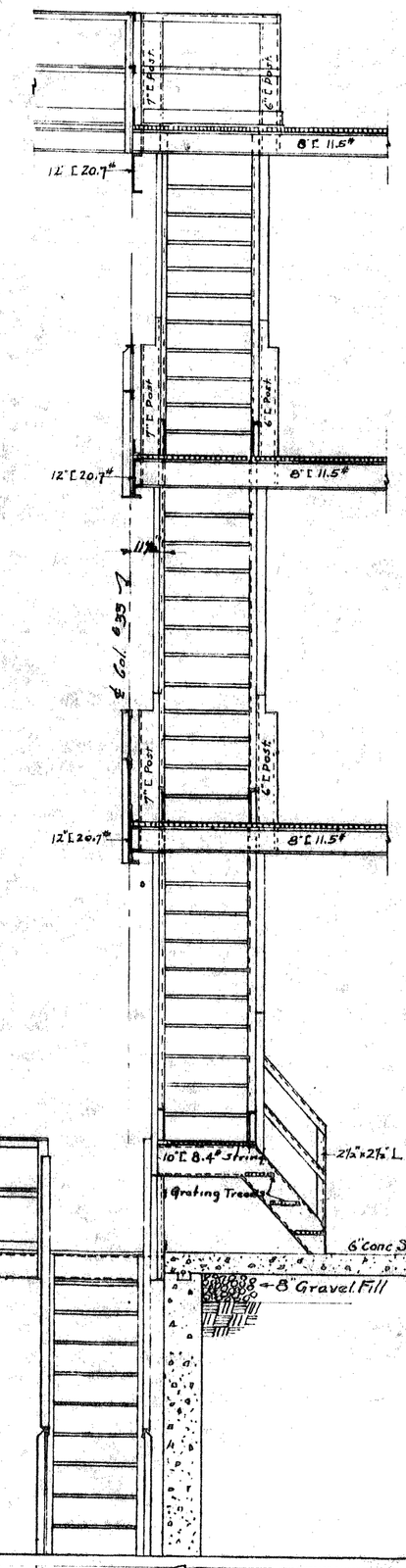
PLAN 3rd MEZZ.

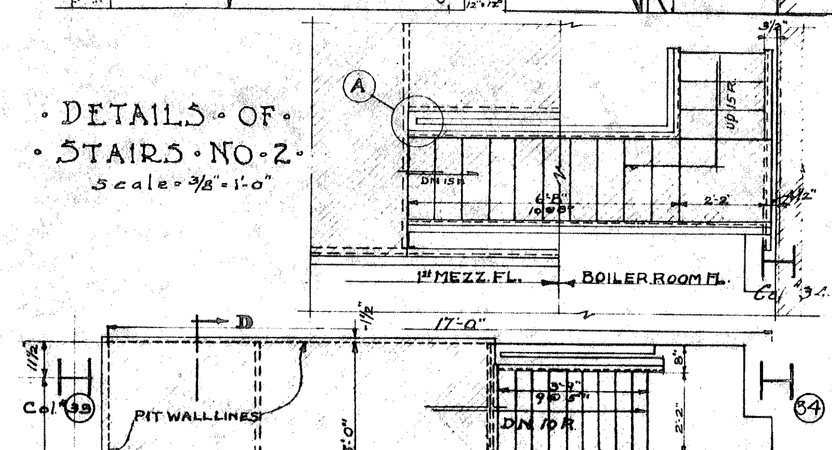


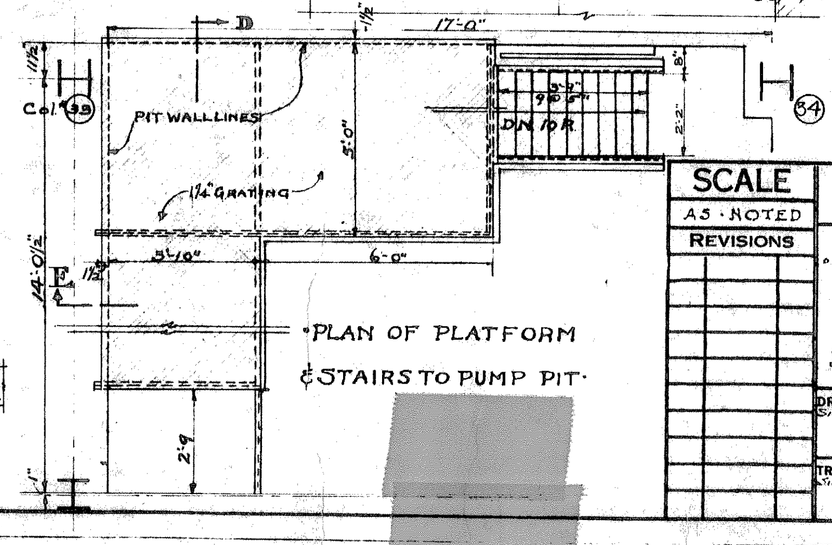


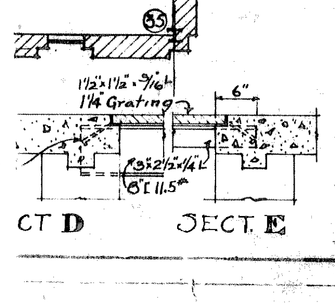
PLAN 2nd MEZZ
Scale = 1/8" = 1'-0"





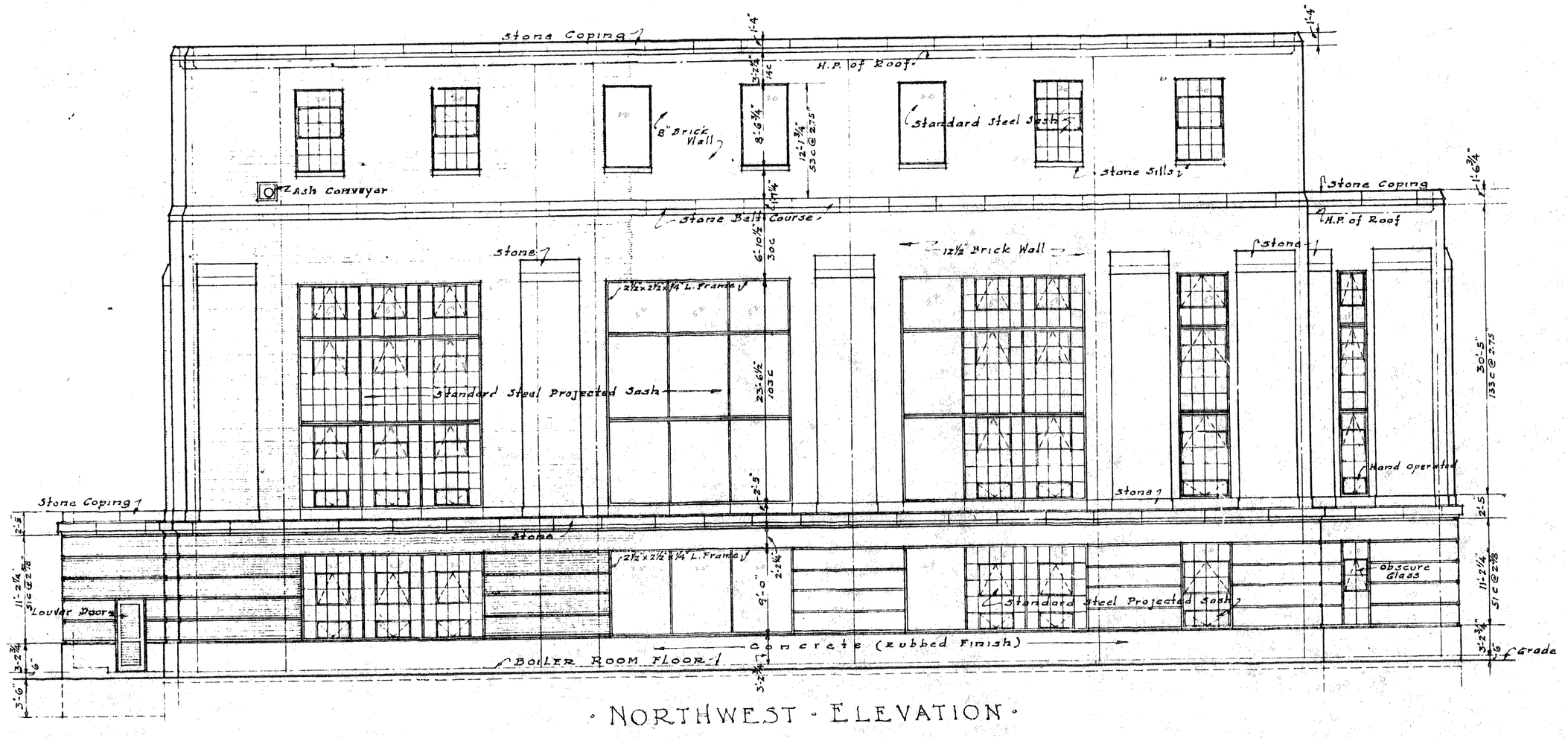




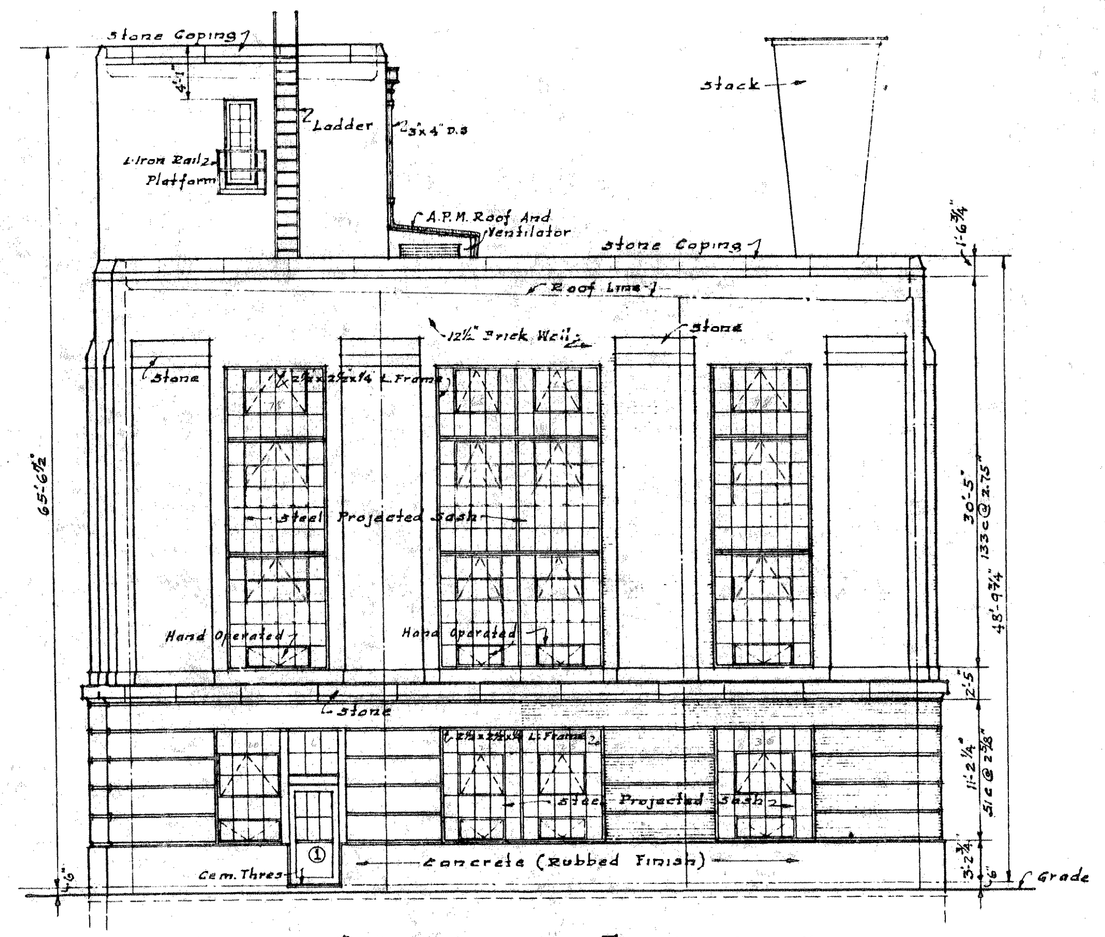


SCALE	CONSTRUCTION DIVISION OFFICE OF THE QUARTERMASTER GENERAL
AS NOTED	SCOTT FIELD ILLINOIS CENTRAL HEATING PLANT SECOND & THIRD MEZZANINE FLOORS & DETAILS
REVISIONS	
DRAWN BY Simmons	CHECKED BY
TRACED BY Simmons	APPROVED BY DIRECTION Edmund J. Walker CAPTAIN Q.M.C.
	DATE NOV. 9. 1938
	PLAN NUMBER 6626-138

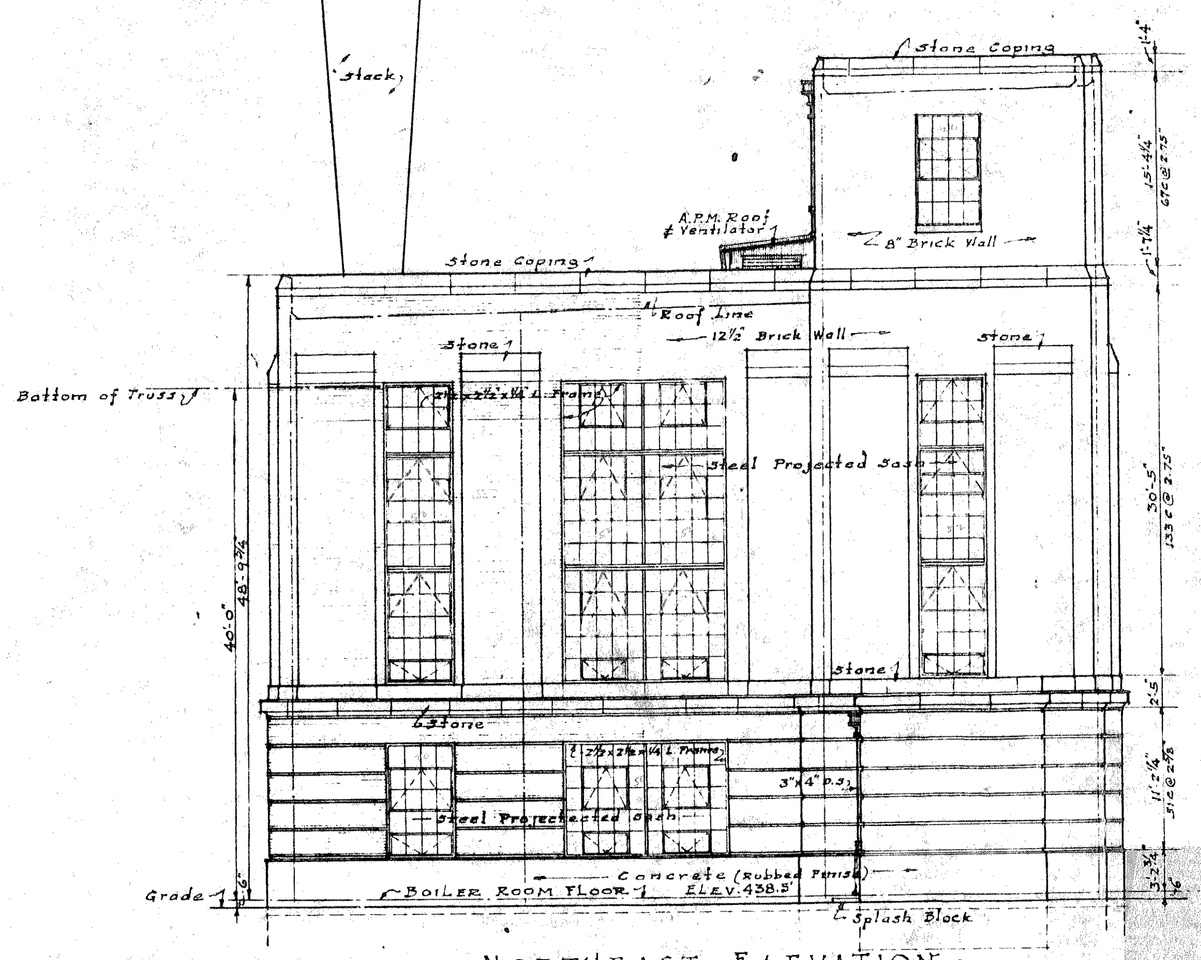
BLG0045-01



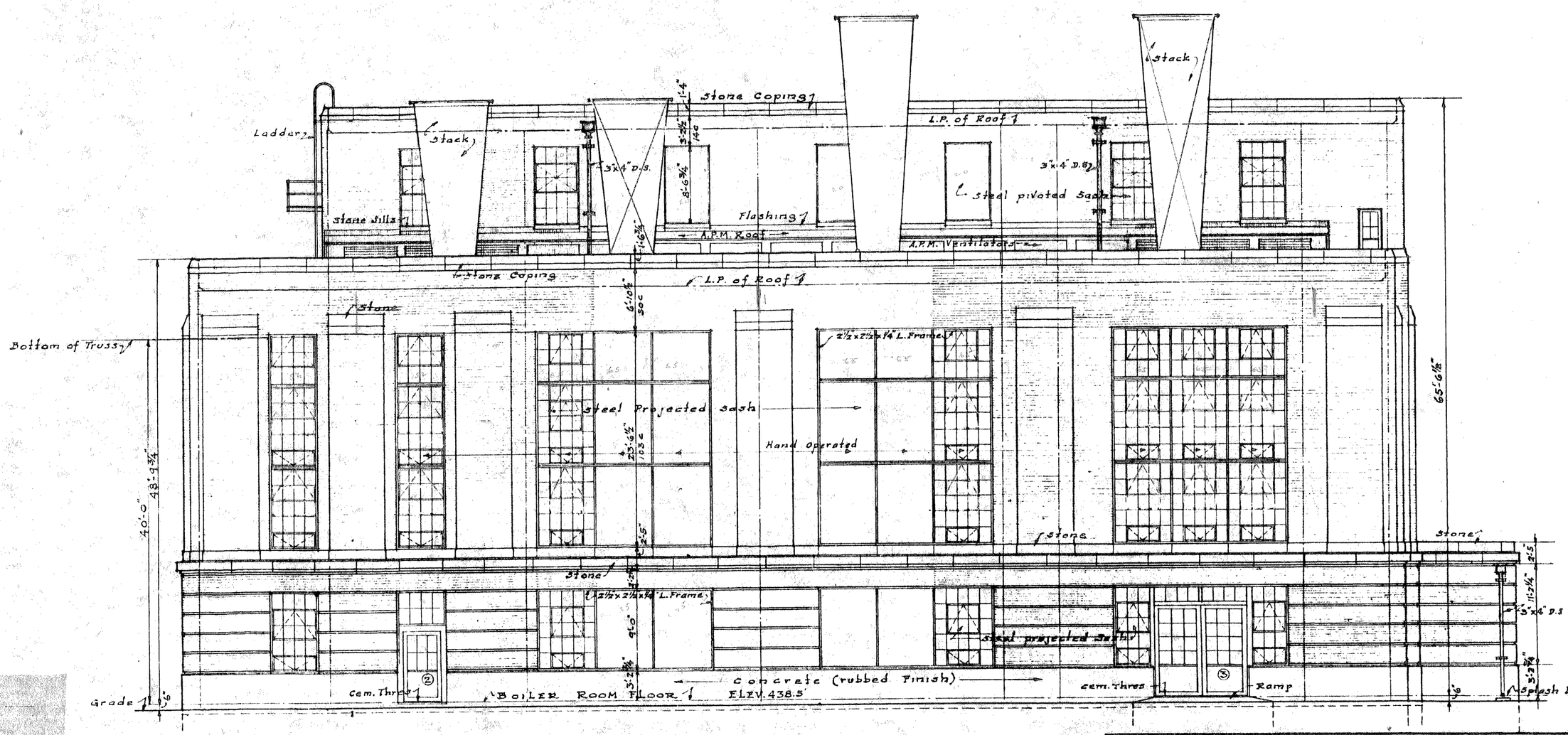
· NORTHWEST · ELEVATION ·



· SOUTHWEST · ELEVATION ·



· NORTHEAST · ELEVATION ·

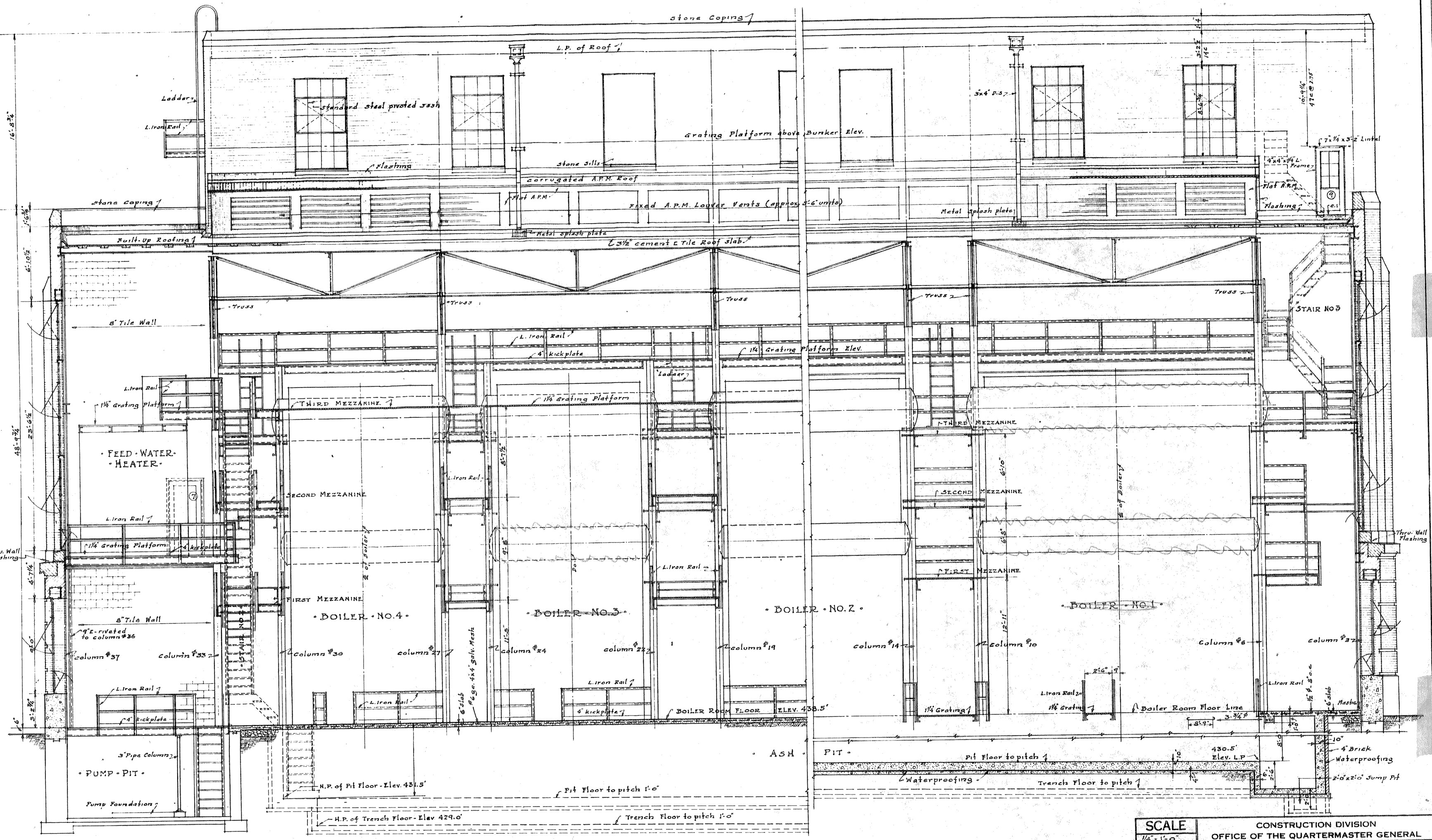


· SOUTHEAST · ELEVATION ·

SCALE	CONSTRUCTION DIVISION
1/8" = 1'-0"	OFFICE OF THE QUARTERMASTER GENERAL
REVISIONS	· SCOTT · FIELD · ILLINOIS ·
	· CENTRAL · HEATING · PLANT ·
	· ELEVATIONS · 13-25

DRAWN BY	CHECKED BY	APPROVED BY DIRECTION	DATE
Guy		Elmer E. Wheeler, CAPTAIN Q.M.C.	Nov. 9. 1938
TRACED BY Guy			PLAN NUMBER 6626-140

BLG0045-01



· PARTIAL · LONGITUDINAL · SECTION · ON · LINE "Y Y"

SCALE	1/4" = 1'-0"
REVISIONS	

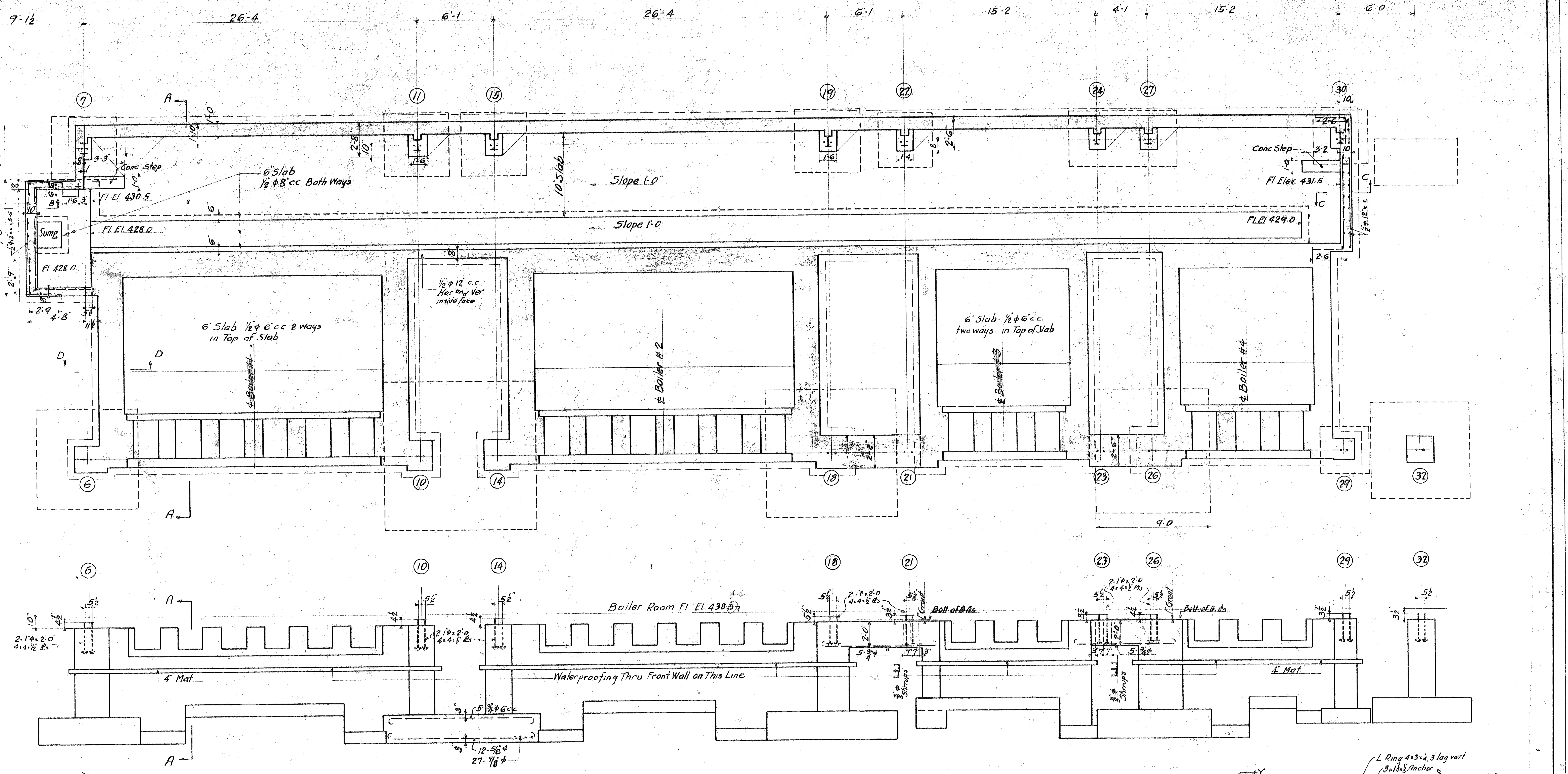
CONSTRUCTION DIVISION
OFFICE OF THE QUARTERMASTER GENERAL

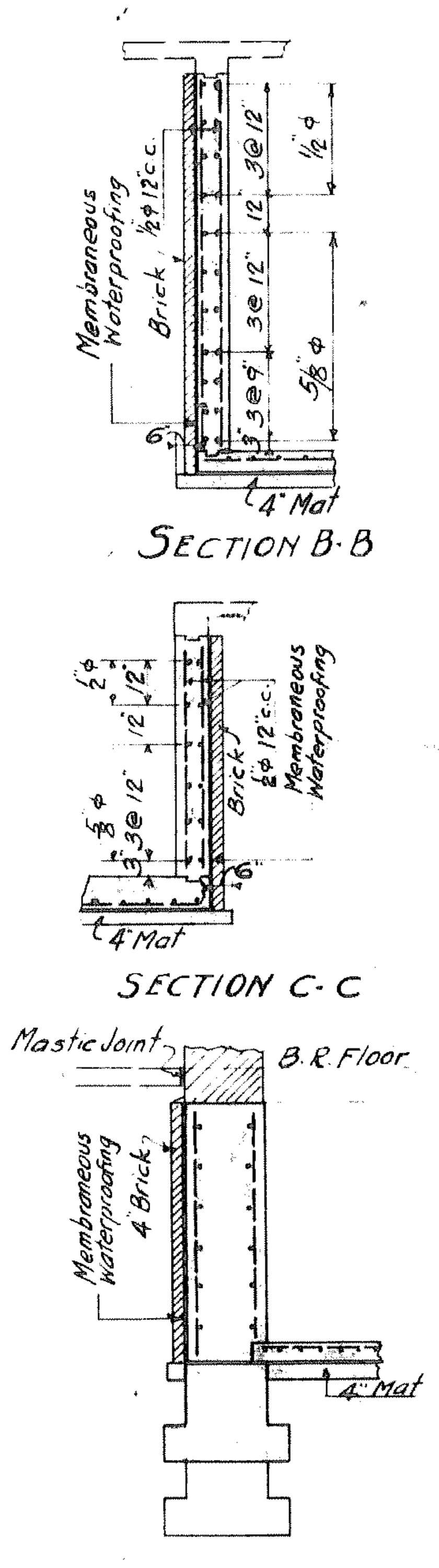
· SCOTT · FIELD · ILLINOIS ·
· CENTRAL · HEATING · PLANT ·
· LONGITUDINAL · SECTION ·

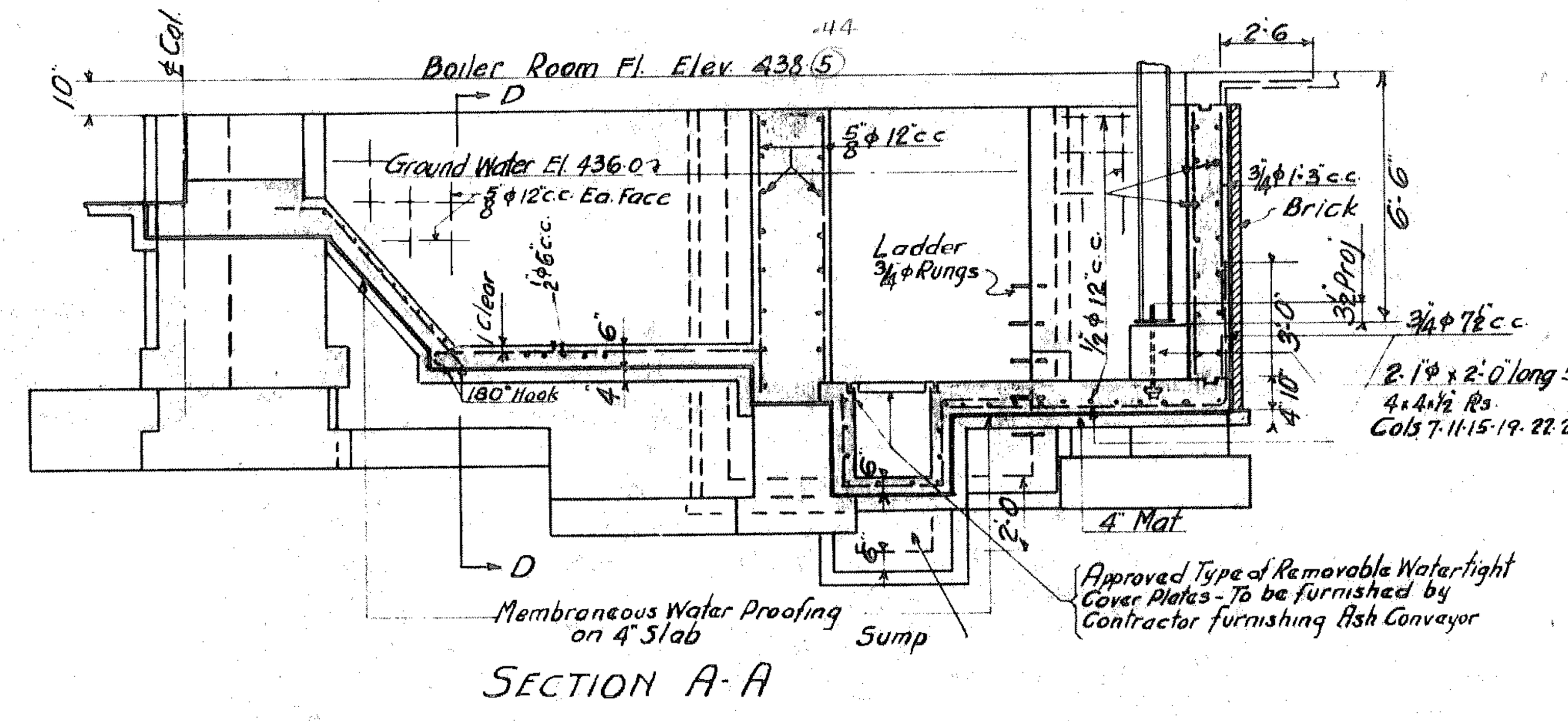
DRAWN BY	CHECKED BY	APPROVED BY DIRECTION	DATE
Guy		Elmer J. Walton, CAPTAIN O.M.C.	Nov. 1. 1938.
TRACED BY Guy			PLAN NUMBER 662G-142

BLG0045-01
13-27


DETAIL "A"
LEADER HEAD
PLAN AT COL. 2
PART ELEVATION
SECTION
DETAILS OF LOUVER VENT
ELEV. OF BALCONY
DETAILS OF BALCONY AT BUNKER PLATFORM LEVEL
SECTION Z
ELEVATION OF DOOR NO. 2
PLAN AT COL. 31
SECTION THRU TRANSFORMER ROOM
SECT. BETWEEN COL'S NO 32 & 36
SECT. THRU WALL BETWEEN COL'S 31 & 32
PLANS AT COL'S 32 & 36
BOILER ROOM FLOOR ELEV.
SCALE AS NOTED
REVISIONS
CONSTRUCTION DIVISION
OFFICE OF THE QUARTERMASTER GENERAL
SCOTT FIELD ILLINOIS
CENTRAL HEATING PLANT
EXTERIOR & MISC. DETAILS
DRAWN BY Guy
CHECKED BY
TRACED BY Guy
APPROVED BY DIRECTION
CAPTAIN Q.M.C.
DATE NOV. 9, 1938
PLAN NUMBER 6626-143

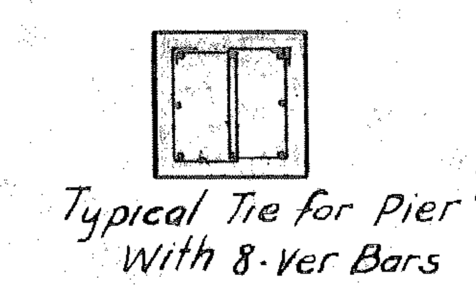


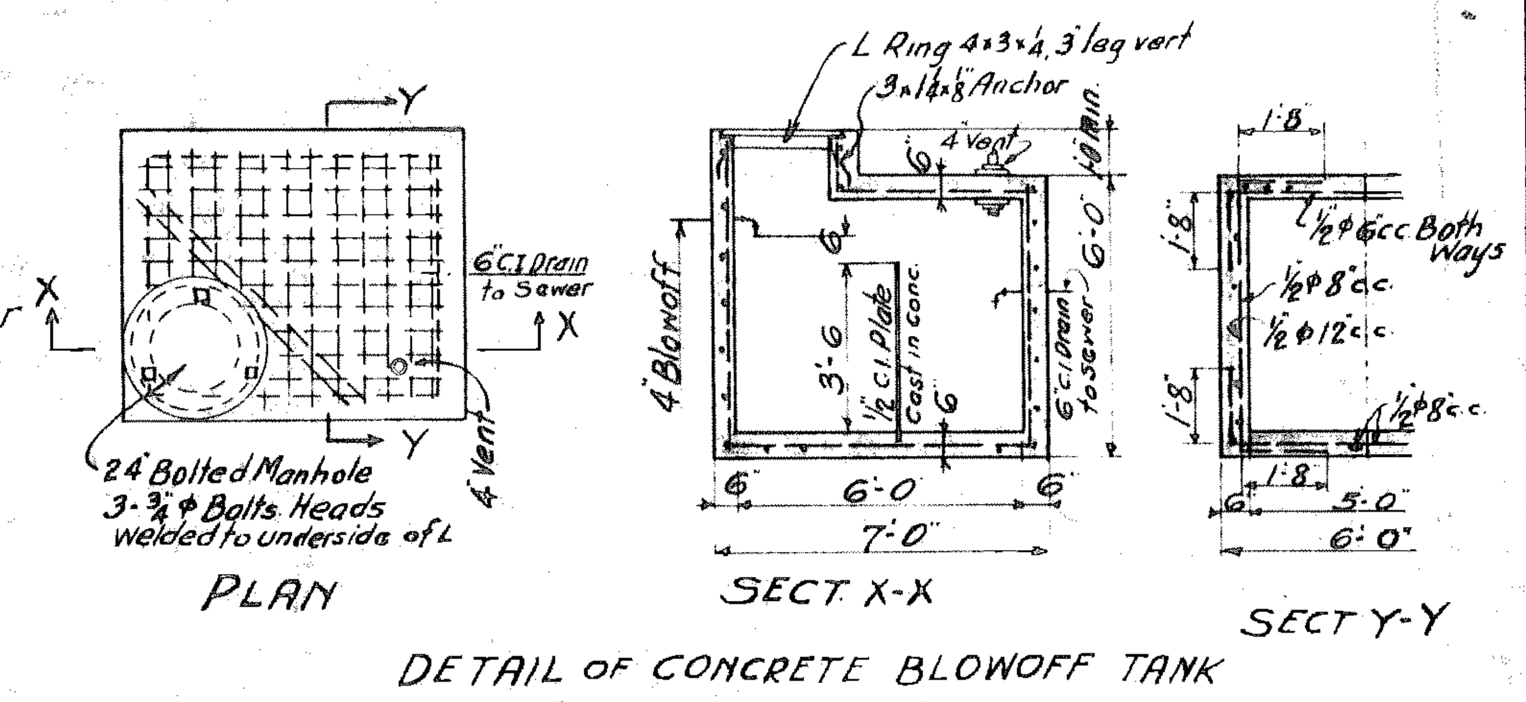




PIER & FOOTING SCHEDULE								
PIER					FOOTING			
COL No	SIZE OF PIER	VERT. REINF	TIES	ELEV. TOP OF PIER	SIZE	REINF	EL. BOTT. FOOTING	REMARKS
6	26x26	8-¾"φ	⅜"φ 12" c.c.	437.67	8'0"x8'0"x26"	13-⅝"φ 2 Ways	428.33	
10 & 14	24x30	do	do	do	12'0"x12'0"x28"	See Detail	428.17	Comb. Foot
18	30x32	8-⅞"φ	do	do	10'4"x10'4"x28"	16-¾"φ 2 Ways	do	
26	30x30	do	do	do	9'0"x10'0"x28	14-¾"φ 2 Ways	do	
32	26x26	8-¾"φ	do	do	7'9"x7'9"x24"	8-¾"φ 2 Ways	429.33	
21-23	Steel Col. Rests on Concrete Beam							
29	20x20	4-⅞"φ	⅜"φ 12" c.c.	437.67	3'10"x3'10"x14"	9-⅜"φ 2 Ways	429.33	
7	18x32	do	do	432.00	5'2"x5'2"x16"	10-½"φ 2 Ways	427.17	
11-15-19	18x32	do	do	do	do	do	428.00	
22	16x30	do	do	do	4'4"x4'4"x16"	12-⅜"φ 2 Ways	do	
24-27	16x30	do	do	do	4'6"x8'6"x18"	5-⅝"φ Long Way 13-⅝"φ Sh. Way	do	Comb. Foot
30	18x30	do	do	do	4'4"x4'4"x16"	12-⅜"φ 2 Ways	426.0	

All Footing bars Hooked 180° and to have 3" protection on Bottom and Sides of Footing
Pier reinforcing to extend into Footings to act as dowels





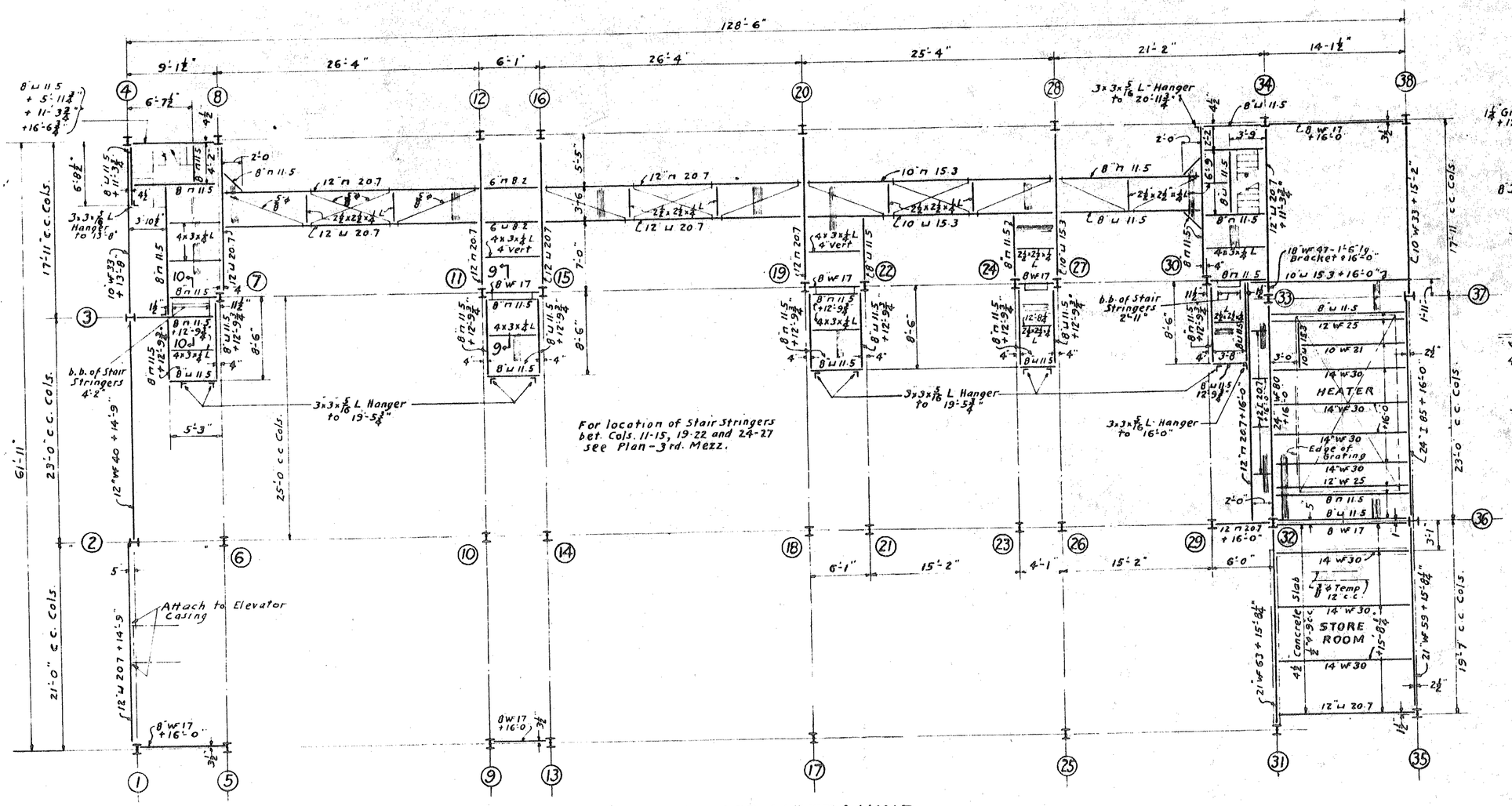
DETAIL OF CONCRETE BLOWOFF TANK
(FOR LOCATION SEE PLANS)

NOTE:
Keep Ground Water below Elev. 430.0 until Boiler and Pit Walls are poured to Elev. 437.67
Bearing on Soil 4000# per Sq. Ft. Excavate to a depth necessary to obtain this value

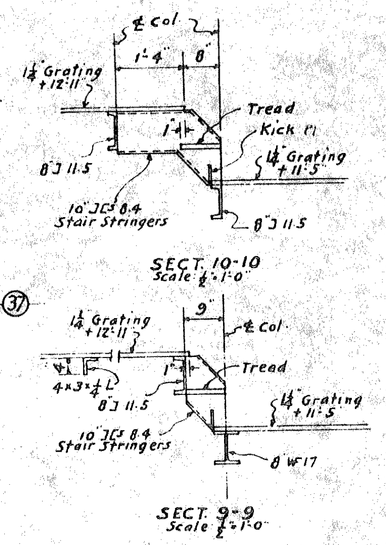
SCALE ¼" = 1'0"	CONSTRUCTION DIVISION OFFICE OF THE QUARTERMASTER GENERAL
REVISIONS	SCOTT FIELD, ILLINOIS. HEATING PLANT BOILER AND INTERIOR COLUMN FOOTINGS

DRAWN BY	CHECKED BY	APPROVED BY DIRECTION	DATE
E.L. Jones		Elmer J. Walters, Captain Q.M.C.	NOV. 9, 1938
TRACED BY E.L. Jones			PLAN NUMBER 6626-144

BLG 0045-01
18-29



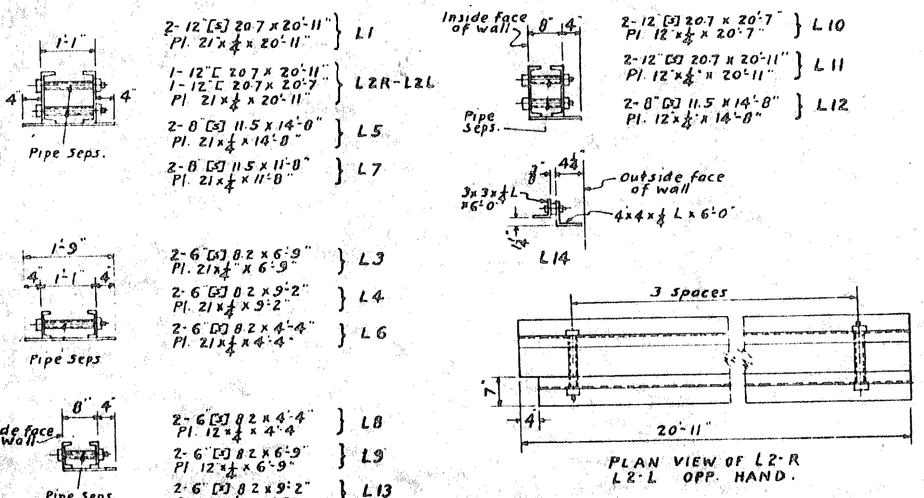
PLAN - 1ST MEZZANINE
Scale ⅛" = 1'-0"
Elev. Top of Steel not indicated +11'-3¾"



COLUMN SCHEDULE

COL. No	1	2	3-4-8 12-16 34-37 38	5	6	7-11 15-19	9 13	10 14	17	18	20 28	21 23 29	22 24 27 30	25	26	31	32	33	35	36
+63'-0"																				
+62'-6"																				
+61'-6⅝"																				
+61'-0⅛"																				
	8 WF 31	10 WF 33		8 WF 31	8 WF 31		8 WF 31	8 WF 31	8 WF 31	8 WF 31				8 WF 31	8 WF 31	8 WF 31	8 WF 31			
Splice +46'-6																				
Splice +46'-0																				
+45'-5⅜"																				
+33'-10¾"																				
+29'-7¼"																				
	12" WF 40	10" WF 33	10" WF 33	12" WF 40	12" WF 65	10" WF 33	12" WF 53	12" WF 65	12" WF 72	12" WF 92	10" WF 37	10" WF 33	10 WF 33	12" WF 65	12" WF 79	12" WF 53	12" WF 65	10" WF 33	10" WF 33	10" WF 33
B.R. Fl. ±0'-0"					235			251	353		54				299		223			
-0'-9"	15	30	64	137			154			244		100		216		150		61	36	95
-0'-11"						99							70							
Bott. of Base Pl. -6'-5"																				
Size of Base Pl.	11"x15"x⅞	11"x15"x⅞	11"x15"x⅞	18"x18"x1¼	20"x22"x2	13"x15"x⅞	18"x18"x1¼	20"x22"x2	20"x22"x2	25"x28"x3	12"x16"x1¼	11"x15"x⅞	11"x15"x⅞	20"x20"x1¼	24"x25"x2	18"x18"x1¼	20"x22"x2	11"x15"x⅞	11"x15"x⅞	12"x16"x1¼

Loads given thus (64) are in 1000# Units and refer to heaviest loaded Col. in Group



LINTELS

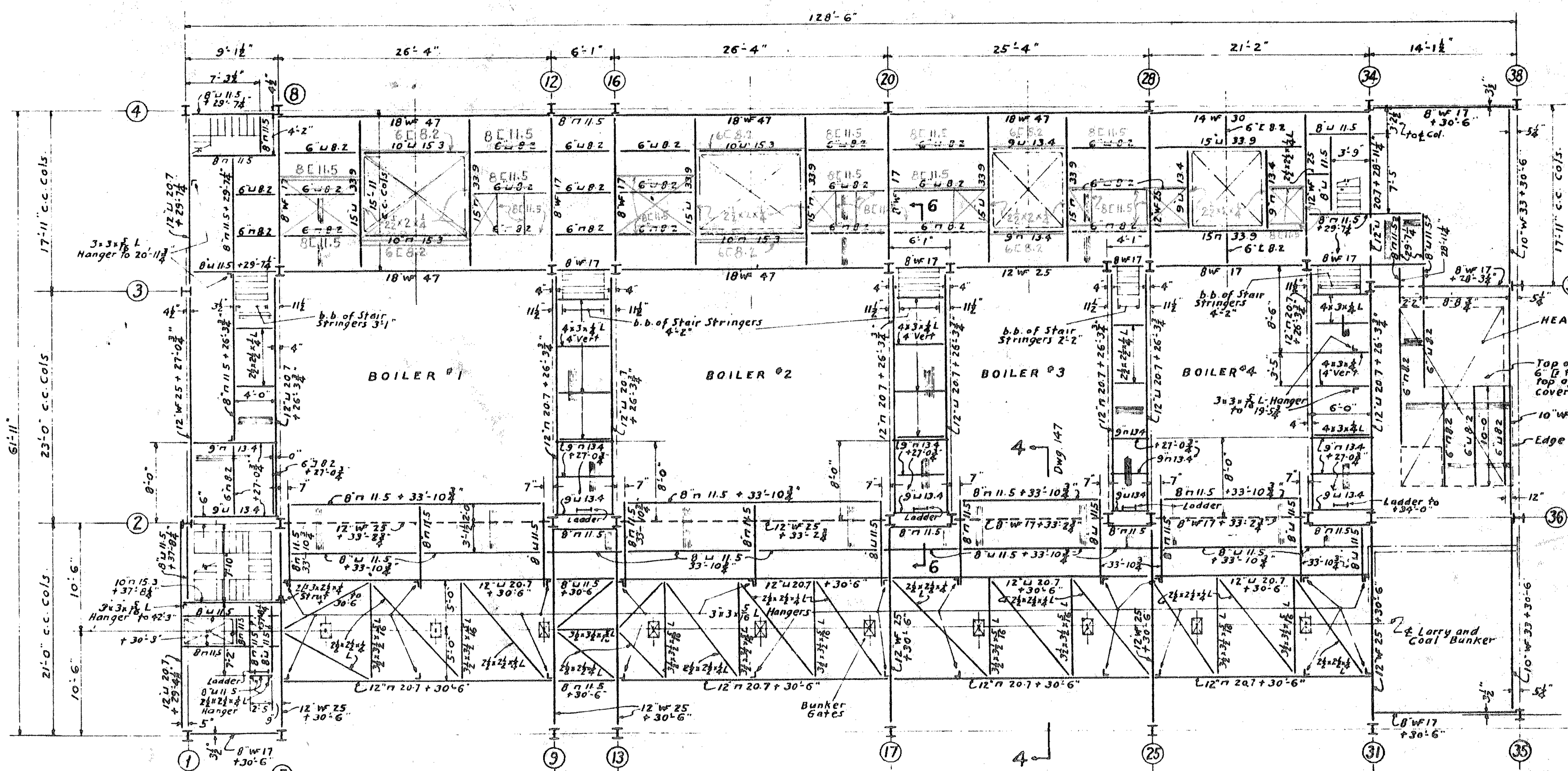
For location see Dwg. 6626-140

NOTE:-
ALL ELEVATIONS ARE GIVEN WITH REFERENCE TO BOILER ROOM FLOOR AS DATUM ± 0'-0".
ELEV. OF BOILER ROOM FLOOR = + 438.50'.

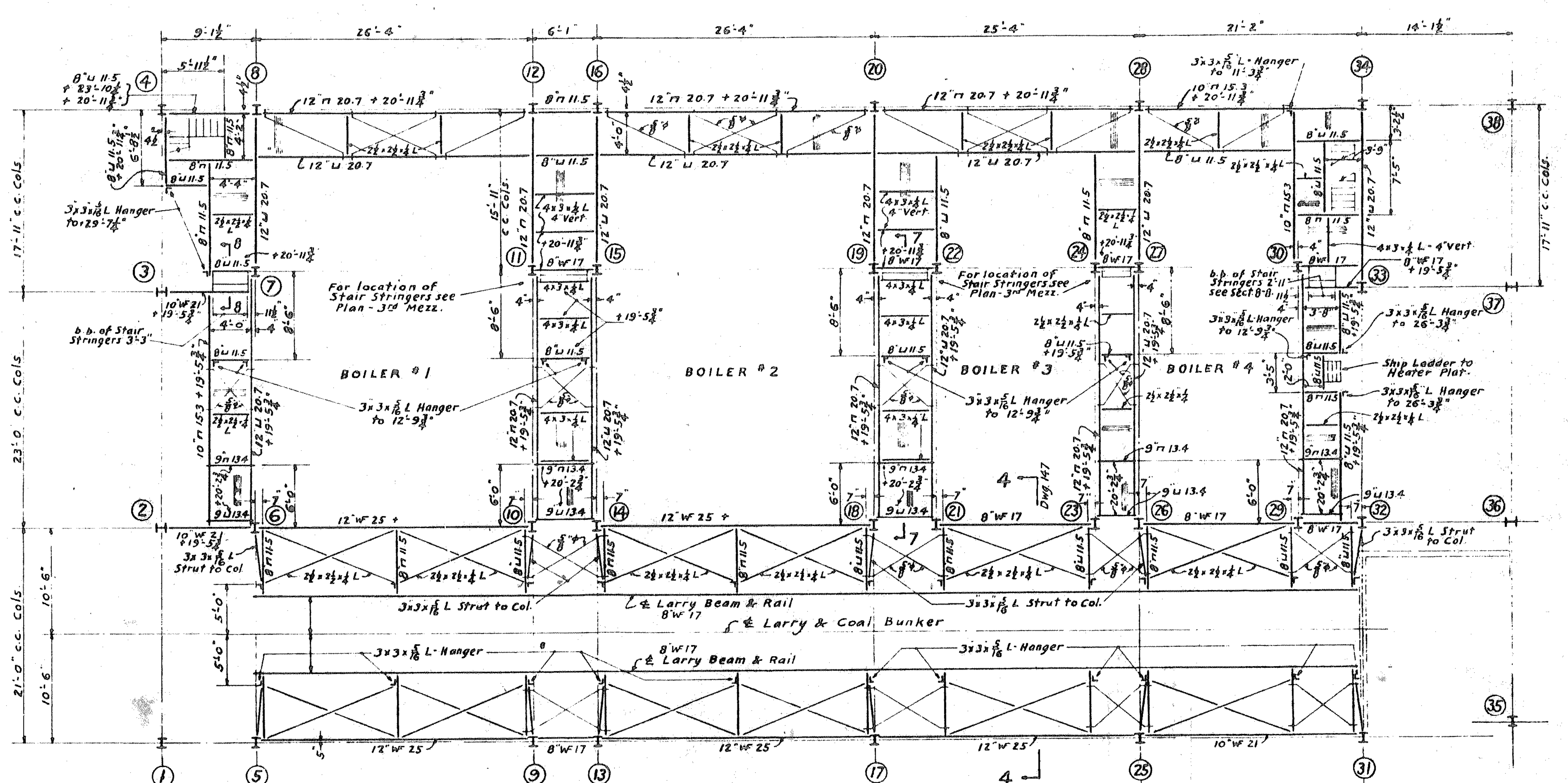
For detail of Stairs and construction at Boiler Room Floor see Architects' Dwgs.

SCALE	CONSTRUCTION DIVISION
⅛" = 1'-0"	OFFICE OF THE QUARTERMASTER GENERAL
REVISIONS	SCOTT FIELD, ILLINOIS. HEATING PLANT FRAMING PLAN — 1ST MEZZ. LINTELS - COLUMN SCHEDULE.
	DRAWN BY: Jones, Hoeberle; CHECKED BY: ; APPROVED BY DIRECTION: Edmund Wales, Captain Q.M.C.; DATE: Nov 9-1938; TRACED BY: Hoeberle; PLAN NUMBER: 6626-145

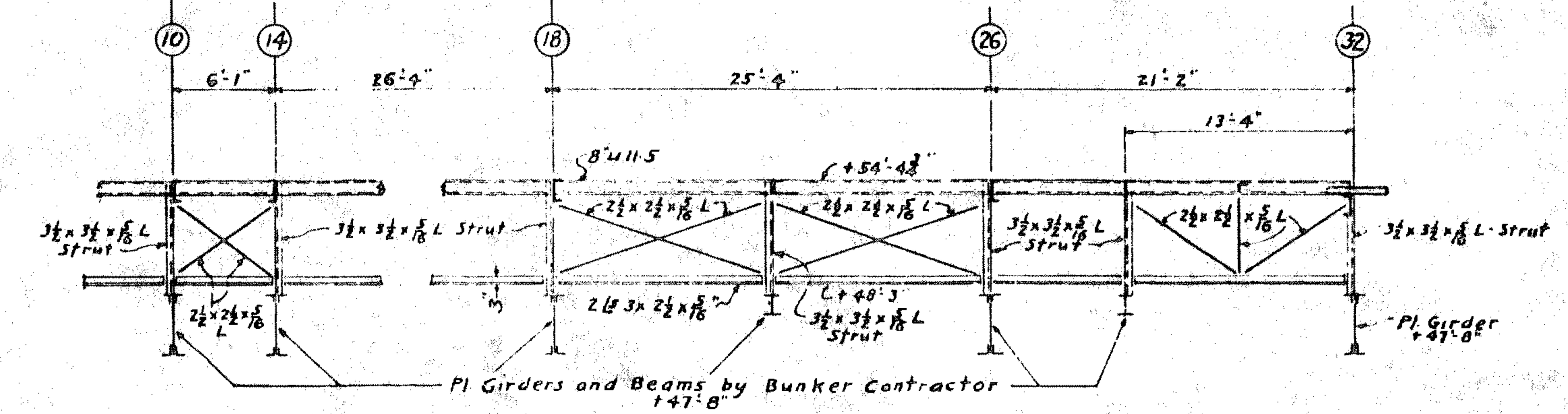
BLG0045-01



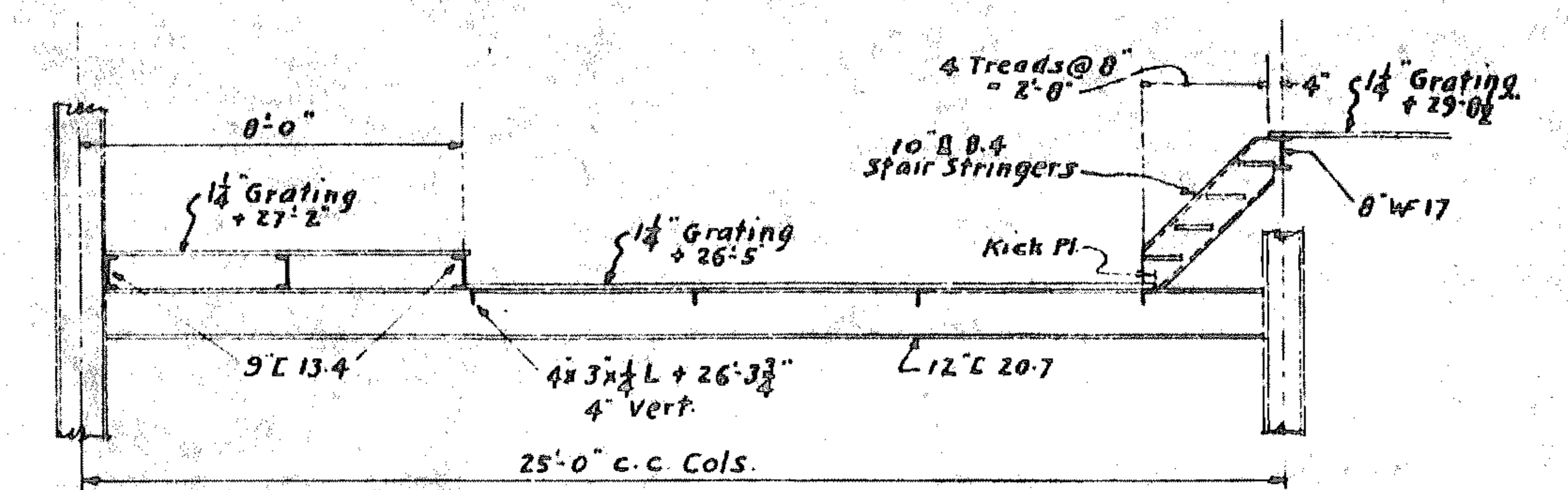
PLAN - 3RD MEZZANINE
Scale 1/8" = 1'-0"
Elev. Top of Steel not indicated + 29'-7 1/4".



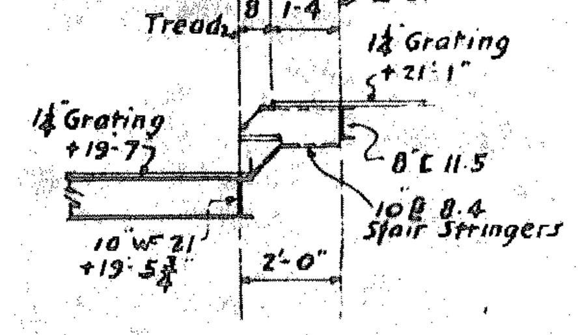
PLAN - 2ND MEZZANINE
Scale 1/8" = 1'-0"
Elev. Top of Steel not indicated + 20'-11 3/8"



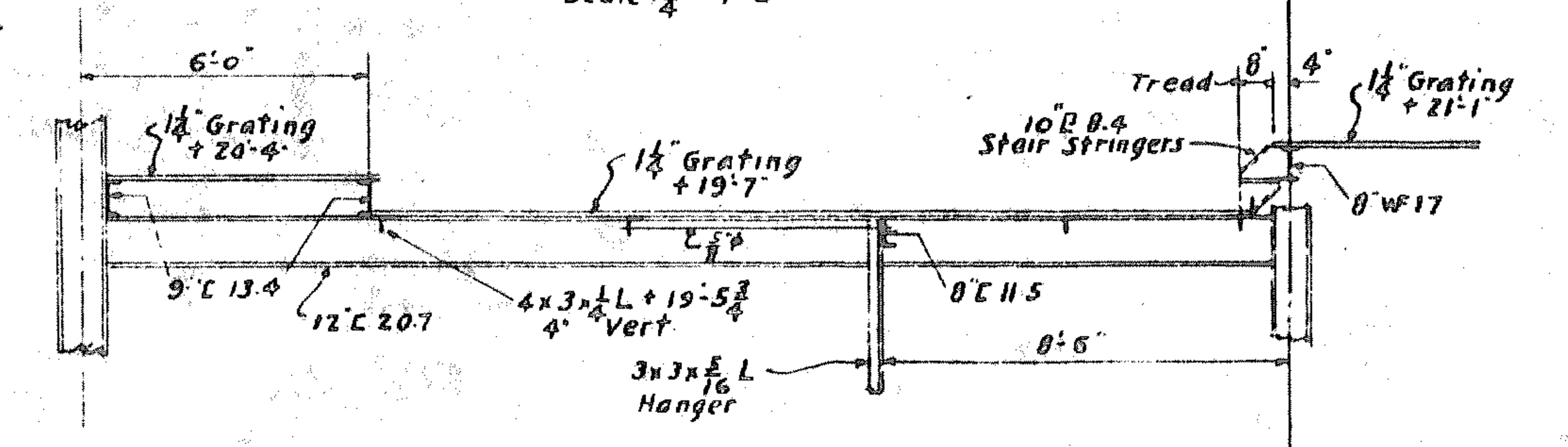
SECT. 5-5
Scale: 1/8" = 1'-0"



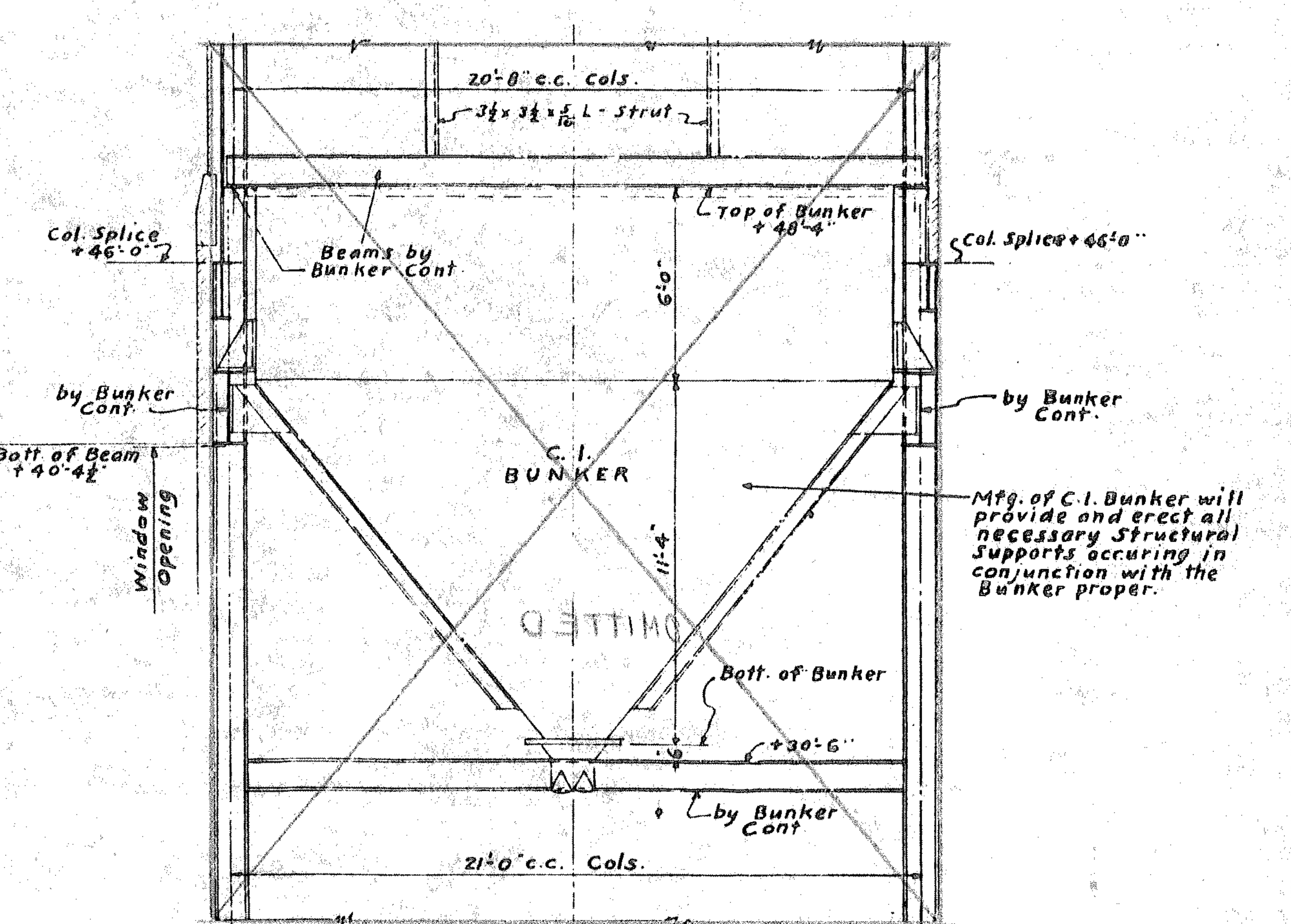
SECT. 6-6
Scale 1/4" = 1'-0"



SECT. 8-8
Scale 1/4" = 1'-0"



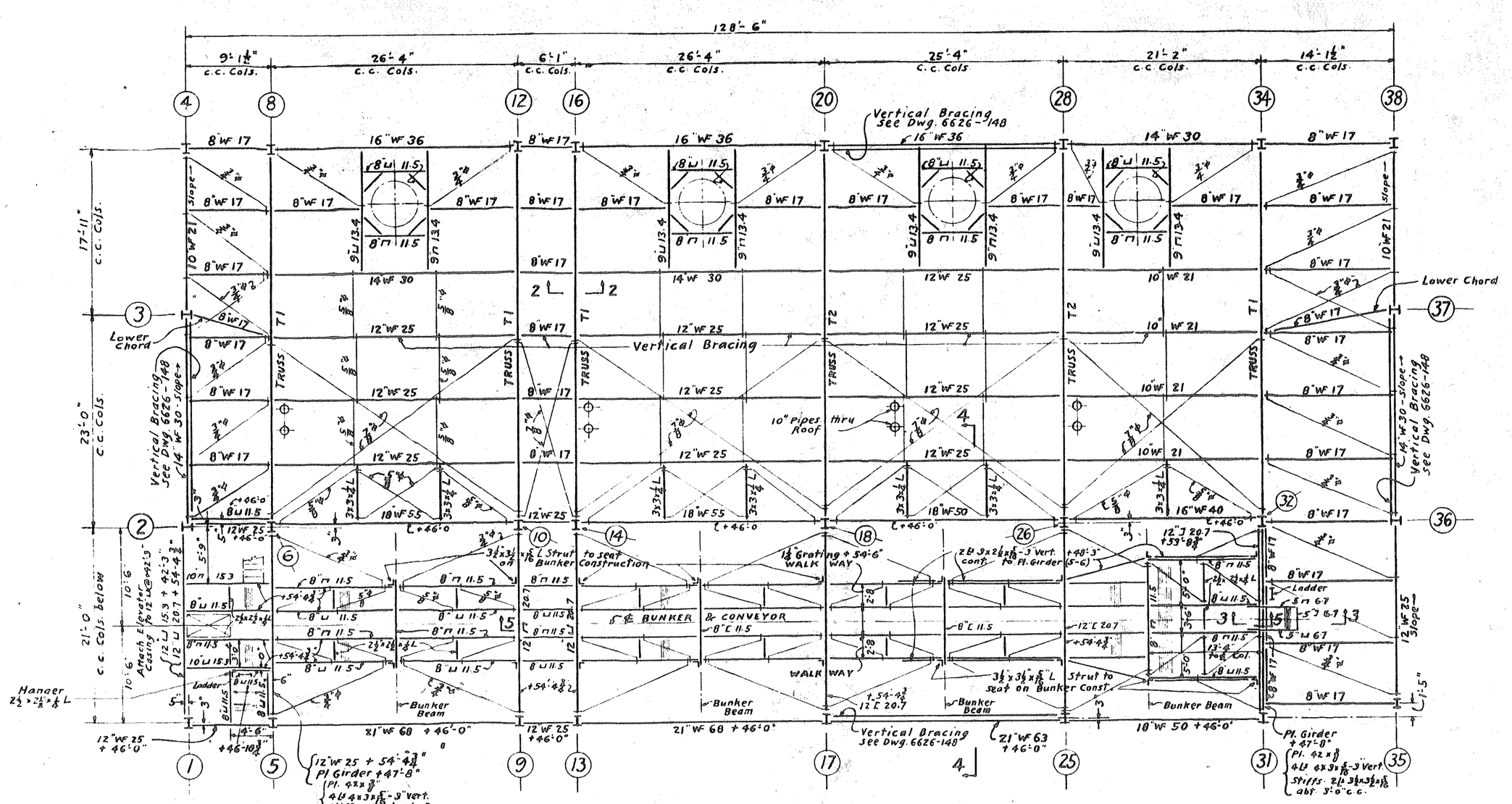
SECT. 7-7
Scale 1/4" = 1'-0"



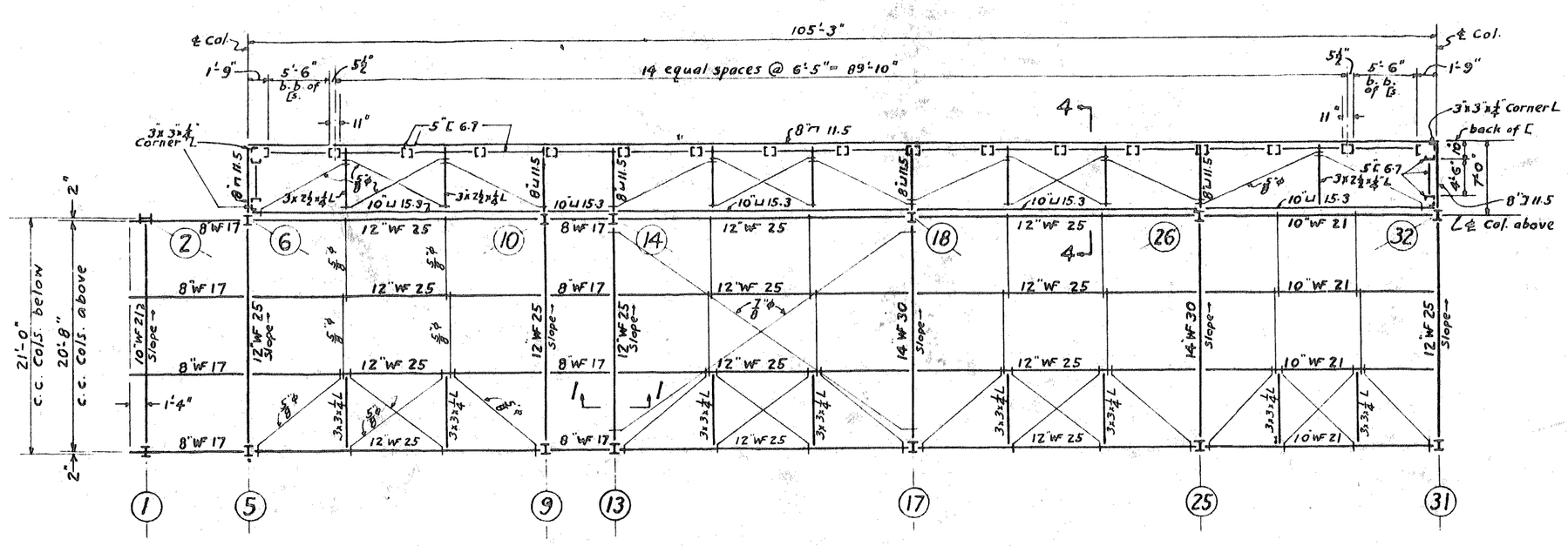
ALTERNATE FRAMING FOR BUNKER.
Scale: 1/4" = 1'-0"

SCALE 1/8" - 1/4" = 1'-0"	CONSTRUCTION DIVISION OFFICE OF THE QUARTERMASTER GENERAL
REVISIONS	SCOTT FIELD, ILLINOIS. HEATING PLANT FRAMING PLANS - 2ND & 3RD MEZZ. SECTIONS 13-211
DRAWN BY Jones Haeberle / CHECKED BY / TRACED BY Haeberle	APPROVED BY DIRECTION Elmer ... Captain Q.M.C.
DATE Nov. 9-1938	PLAN NUMBER 6626-146

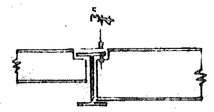
BLG0045-01



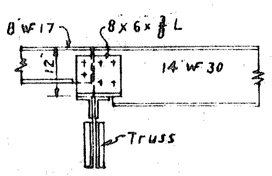
PLAN OF LOW ROOF AND CONVEYOR PLATFORMS
Scale: ⅛"=1'-0"



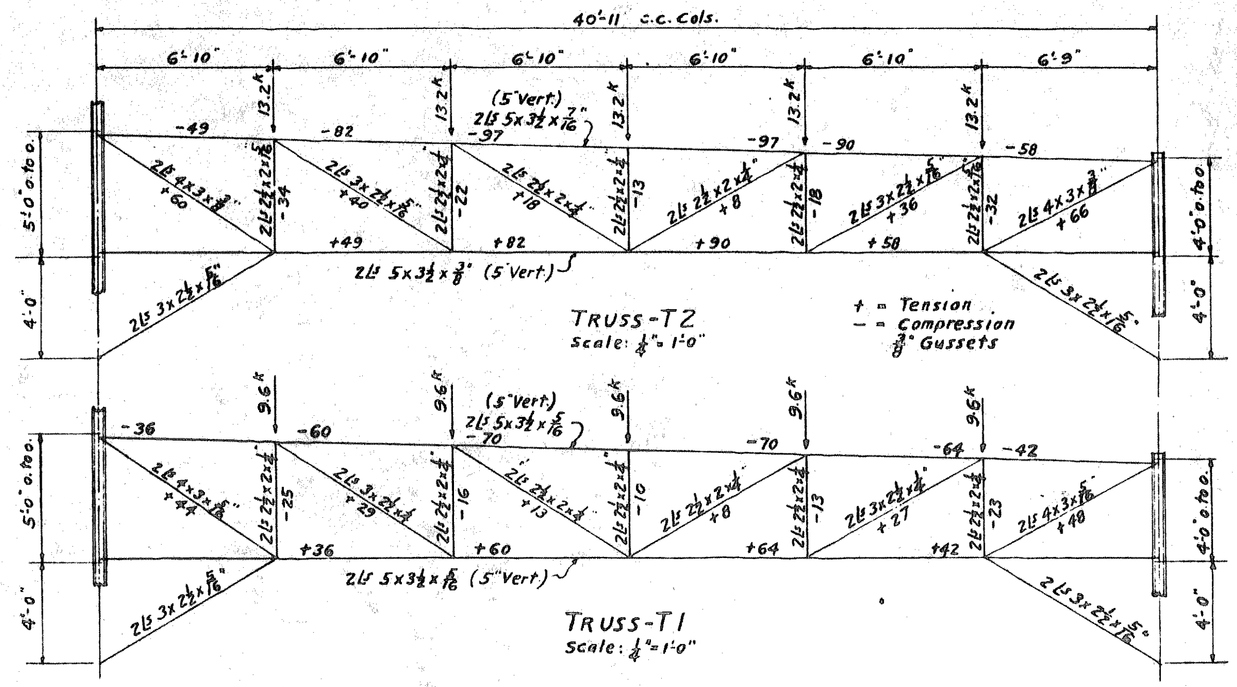
PLAN OF ROOF OVER BUNKER AND LOUVRES.
Scale: ⅛"=1'-0"



SECT 1-1
Typical of High Roof

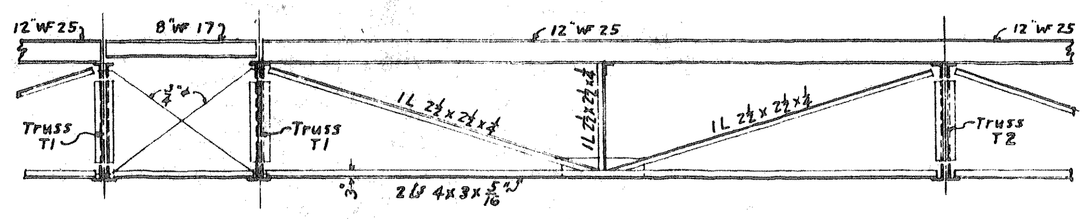


SECT. 2-2

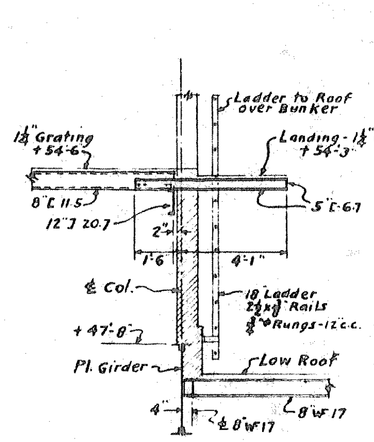


TRUSS-T2
Scale: ⅛"=1'-0"

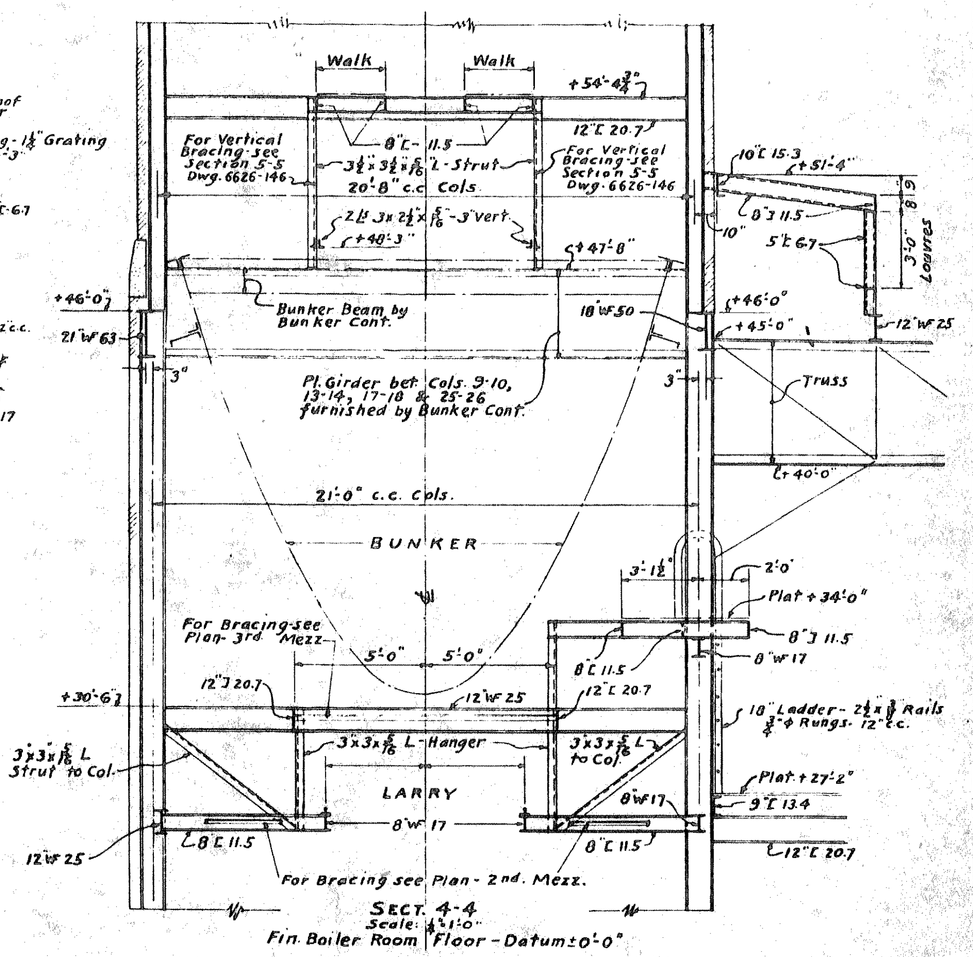
TRUSS-T1
Scale: ⅛"=1'-0"



VERTICAL BRACING



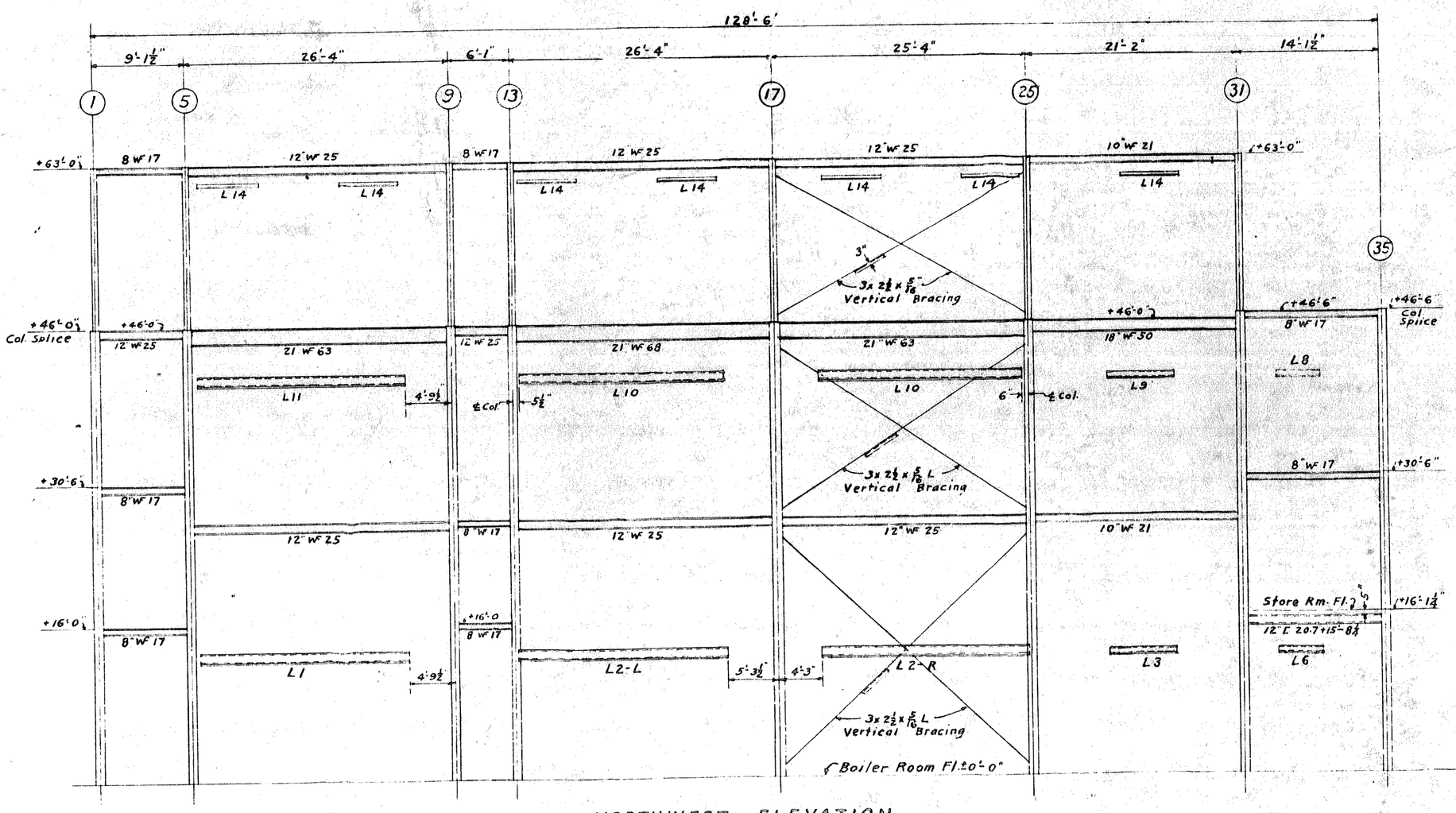
SECT. 3-3
Scale: ½"=1'-0"



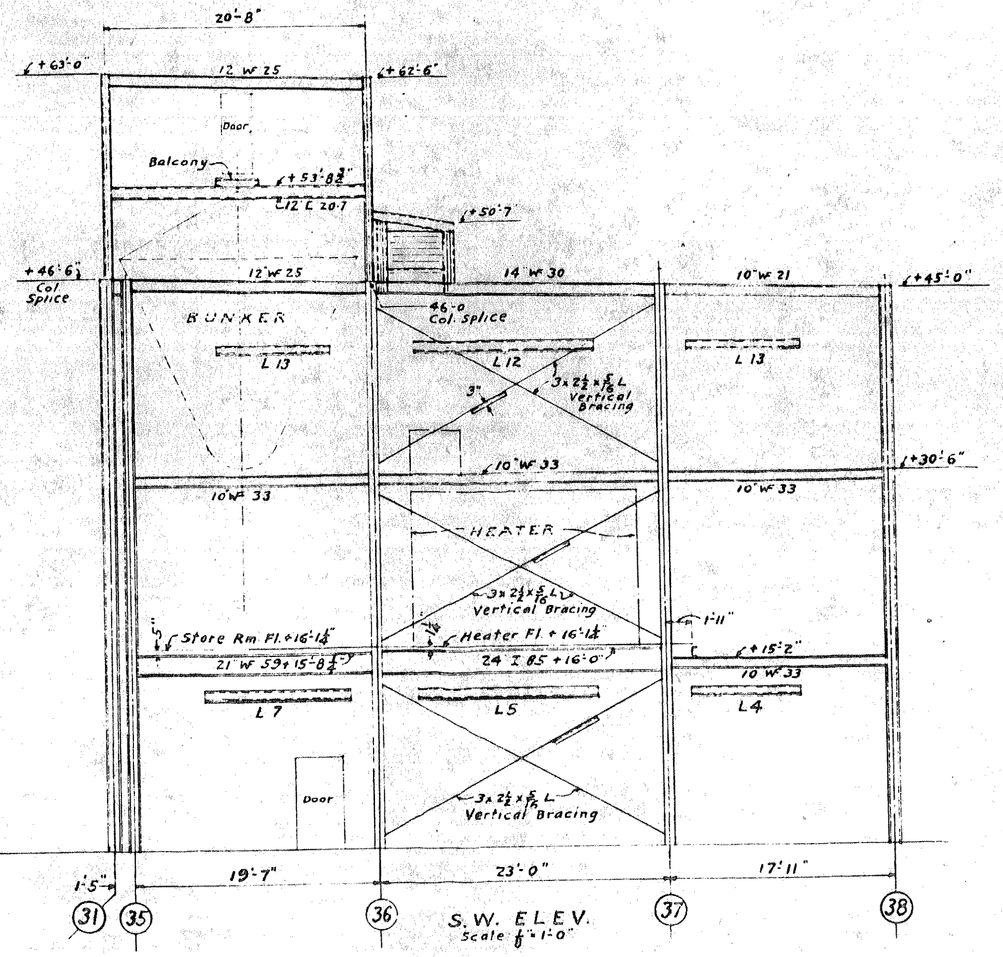
SECT. 4-4
Scale: ⅛"=1'-0"
Fin. Boiler Room Floor - Datum ±0'-0"

SCALE	CONSTRUCTION DIVISION
⅛"=1'-0"	OFFICE OF THE QUARTERMASTER GENERAL
REVISIONS	SCOTT FIELD, ILLINOIS.
	HEATING PLANT
	FRAMING PLAN—HIGH & LOW ROOF & CONVEYOR PLATFORMS—SECTIONS.
DRAWN BY Jones Haeberle	CHECKED BY
TRACED BY Haeberle	APPROVED BY DIRECTION Captain Q.M.C.
DATE Nov 9-1938	PLAN NUMBER 6626-147

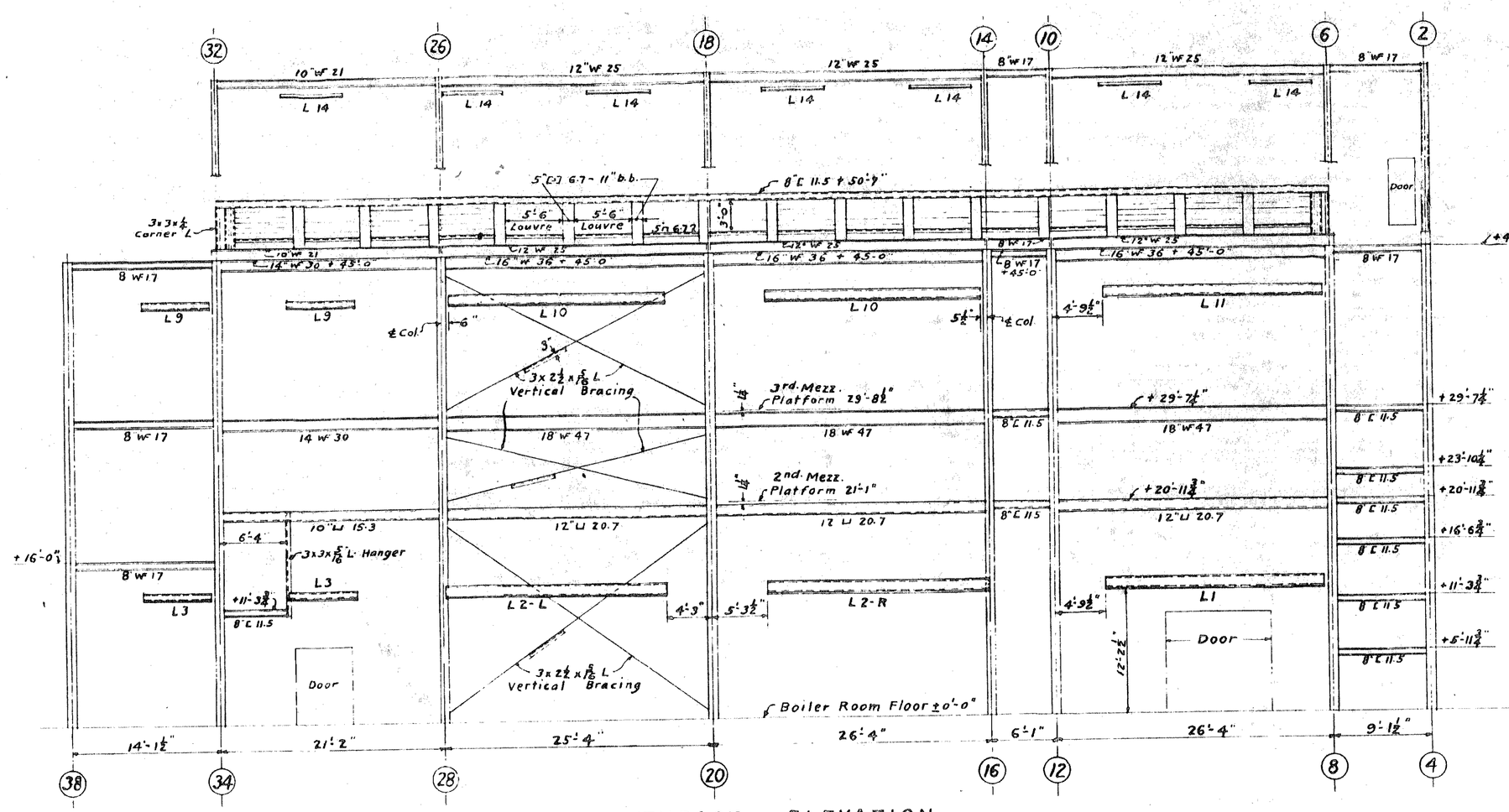
BLG 00145-01



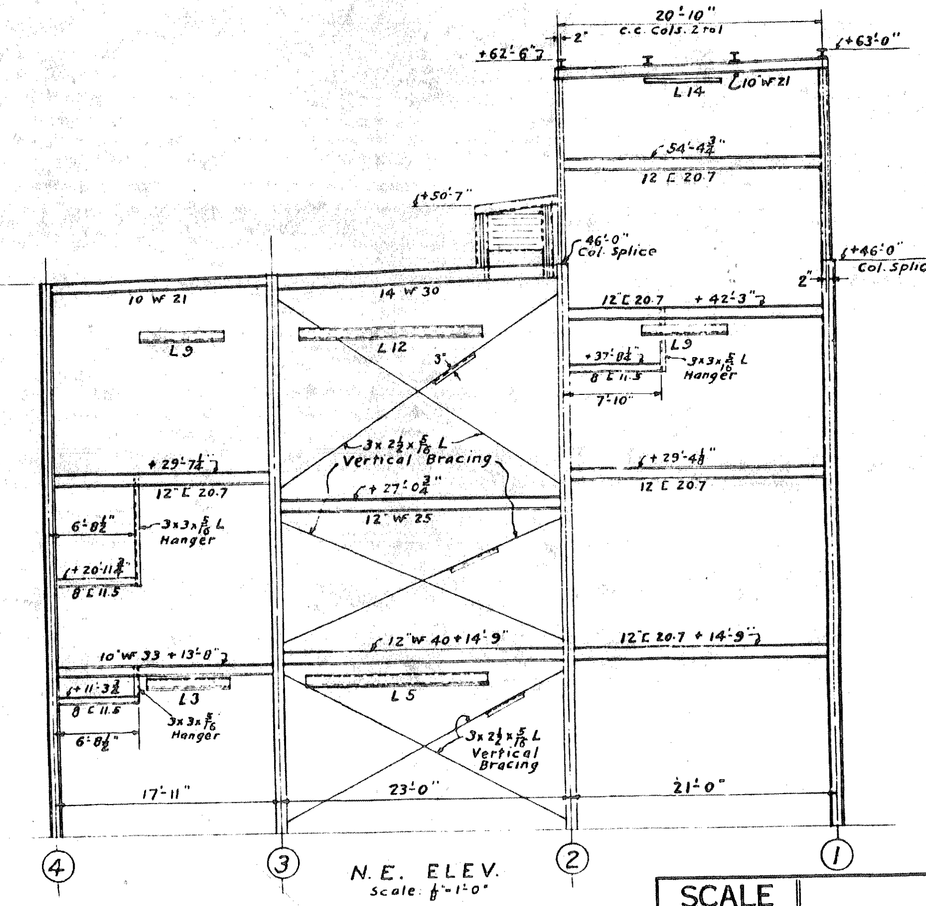
NORTHWEST ELEVATION
Scale: 1/8"=1'-0"



S.W. ELEV.
Scale 1/8"=1'-0"



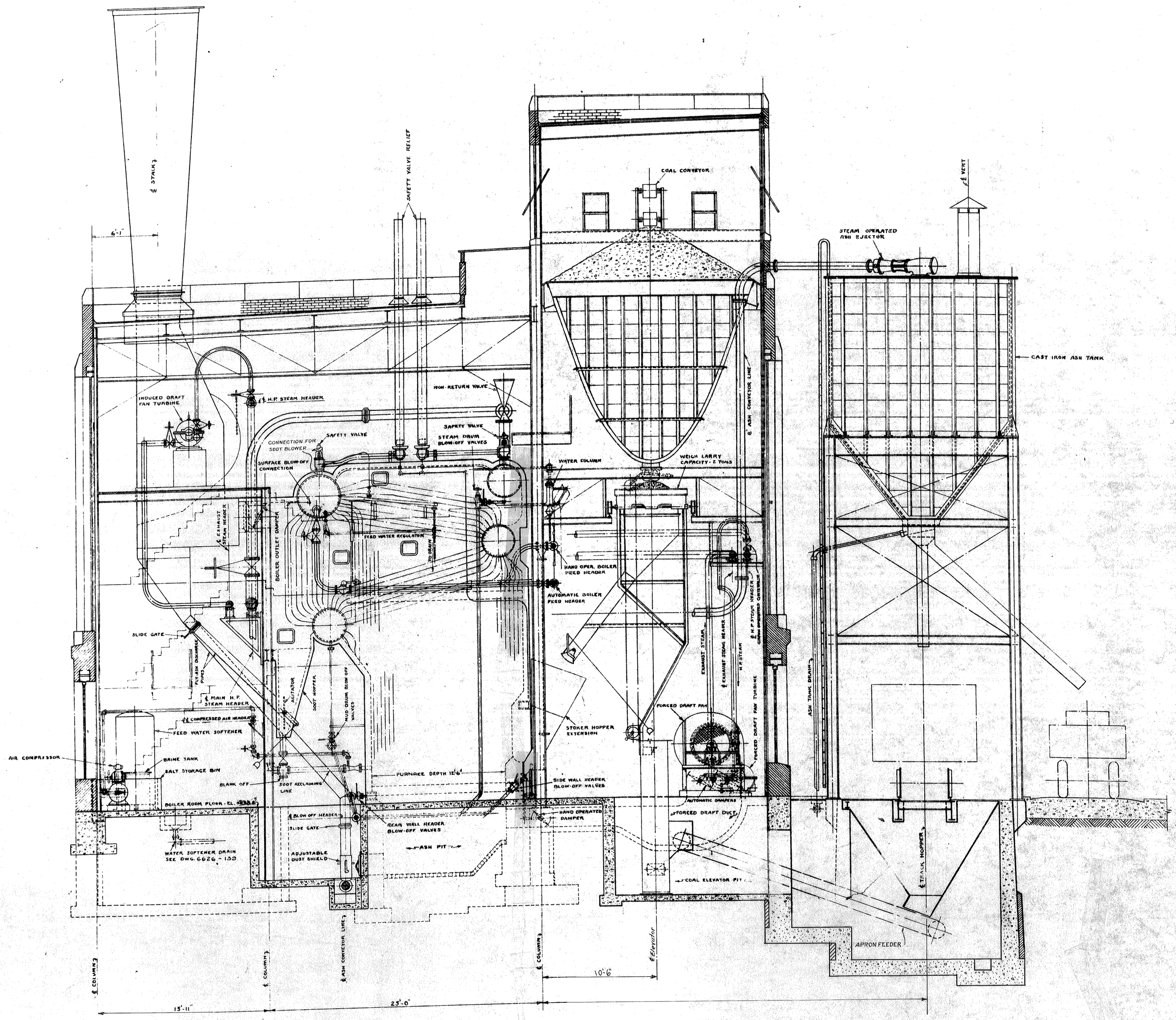
SOUTHEAST ELEVATION
Scale: 1/8"=1'-0"



N.E. ELEV.
Scale 1/8"=1'-0"

SCALE 1/8" = 1'-0"	CONSTRUCTION DIVISION OFFICE OF THE QUARTERMASTER GENERAL
REVISIONS	SCOTT FIELD, ILLINOIS. HEATING PLANT STEEL ELEVATIONS
	DRAWN BY: Jones / Haeberle — CHECKED BY: — APPROVED BY DIRECTION: Thomas J. Dallas, Captain, Q.M.C. — DATE: Nov. 9 - 1938
	TRACED BY: Haeberle — PLAN NUMBER: 6626-148

BLG 0046-01



MECHANICAL PLAN

CONSTRUCTION DIVISION
OFFICE OF THE QUARTERMASTER GENERAL

SCOTT FIELD ILL.

CENTRAL HEATING PLANT

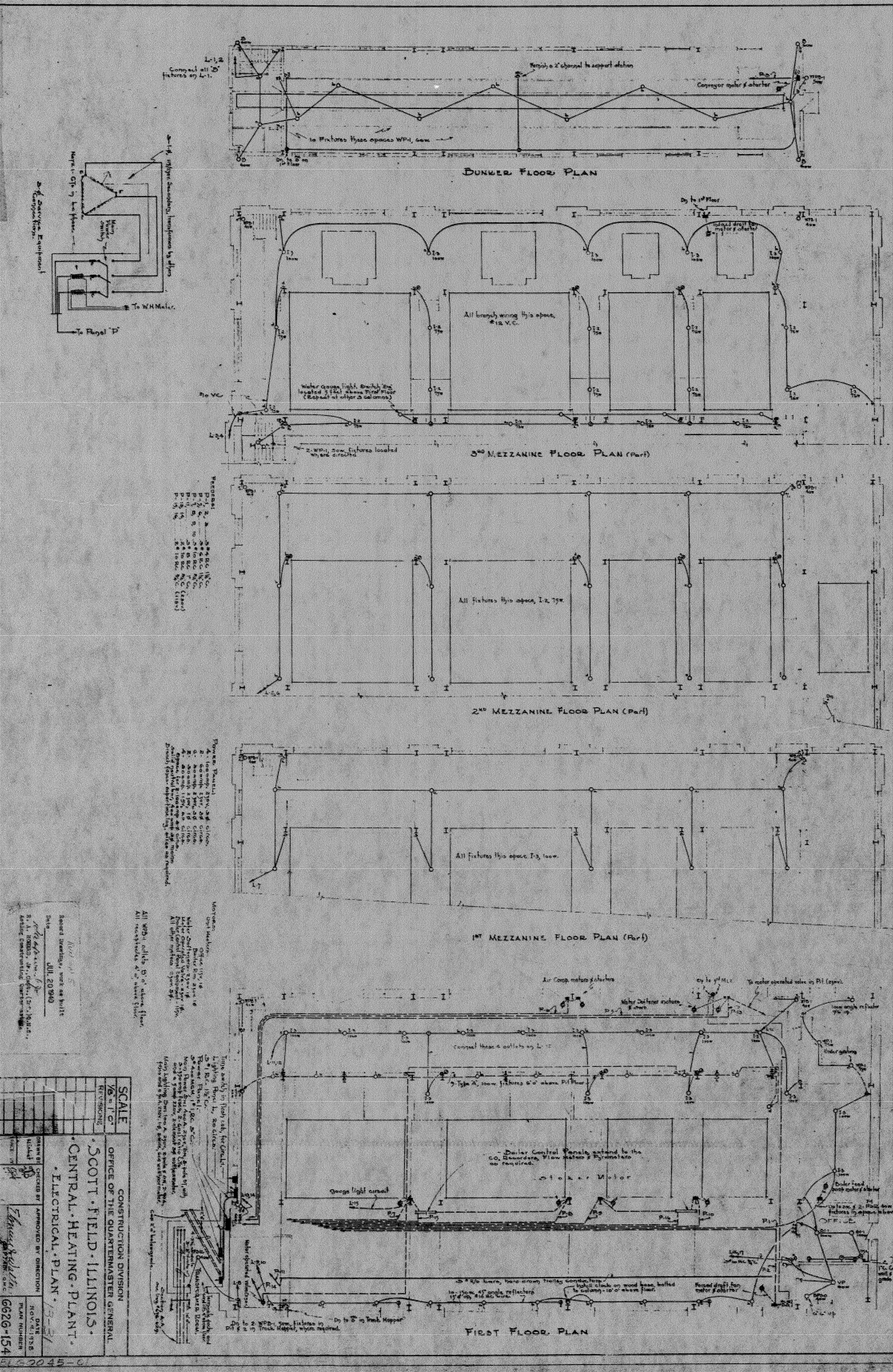
CROSS SECTION

DATE
NOV. 9 1938

PLAN NUMBER
6626-151

13-92

BL60045-01



CONSTRUCTION DIVISION
OFFICE OF THE QUARTERMASTER GENERAL

· SCOTT · FIELD · ILLINOIS ·
· CENTRAL · HEATING · PLANT ·
· ELECTRICAL · PLAN ·

SCALE 1/8" = 1'-0"

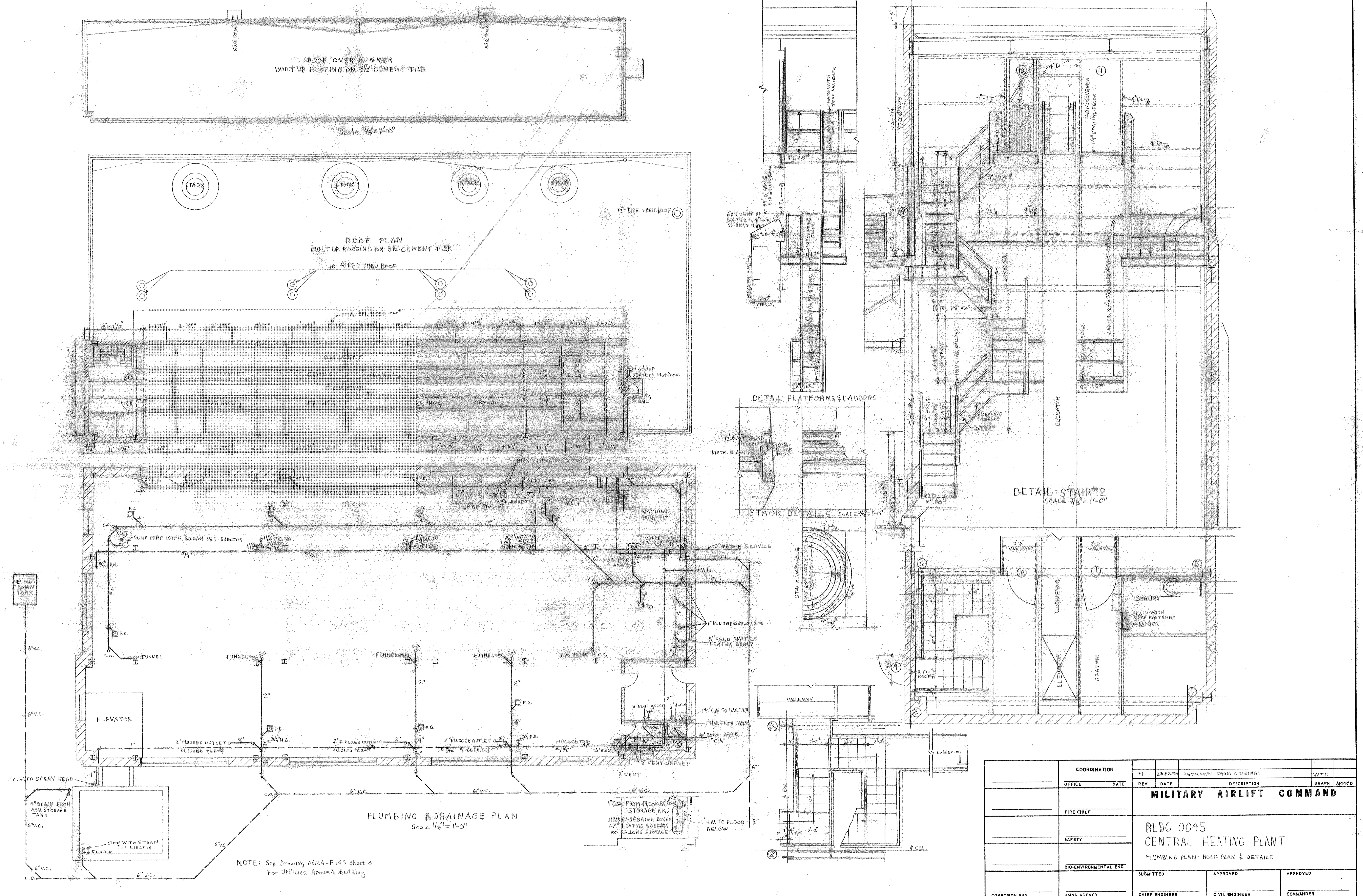
REVISIONS

DRAWN BY | CHECKED BY | APPROVED BY DIRECTION

DATE NOV. 4, 1938

PLAN NUMBER 6626-154

BLG 2045-01



COORDINATION		REV	DATE	DESCRIPTION	DRAWN	APPR'D
OFFICE	DATE	1	29 JUN 88	REDRAWN FROM ORIGINAL	W.T.F.	

MILITARY AIRLIFT COMMAND

FIRE CHIEF

SAFETY

BIO-ENVIRONMENTAL ENG

CORROSION ENG

USING AGENCY

CONSTRUCTION MANAGER

BASE COMMUNICATIONS

BLDG 0045
CENTRAL HEATING PLANT
PLUMBING PLAN - ROOF PLAN & DETAILS

SUBMITTED	APPROVED	APPROVED
CHIEF ENGINEER	CIVIL ENGINEER	COMMANDER
DRAWN BY W.T.F.	DESIGNED BY	DATE 9 NOV. 1988
SCALE AS NOTED	PROJECT NO.	DRAWING NO.

SHEET 1 of 1

MAC FORM SEP 71 71 PREVIOUS EDITION WILL BE USED

STANDARD E LAYOUT (28 X 40")

U.S. GOVERNMENT PRINTING OFFICE: 1982 566-937

BLDG-0045-01

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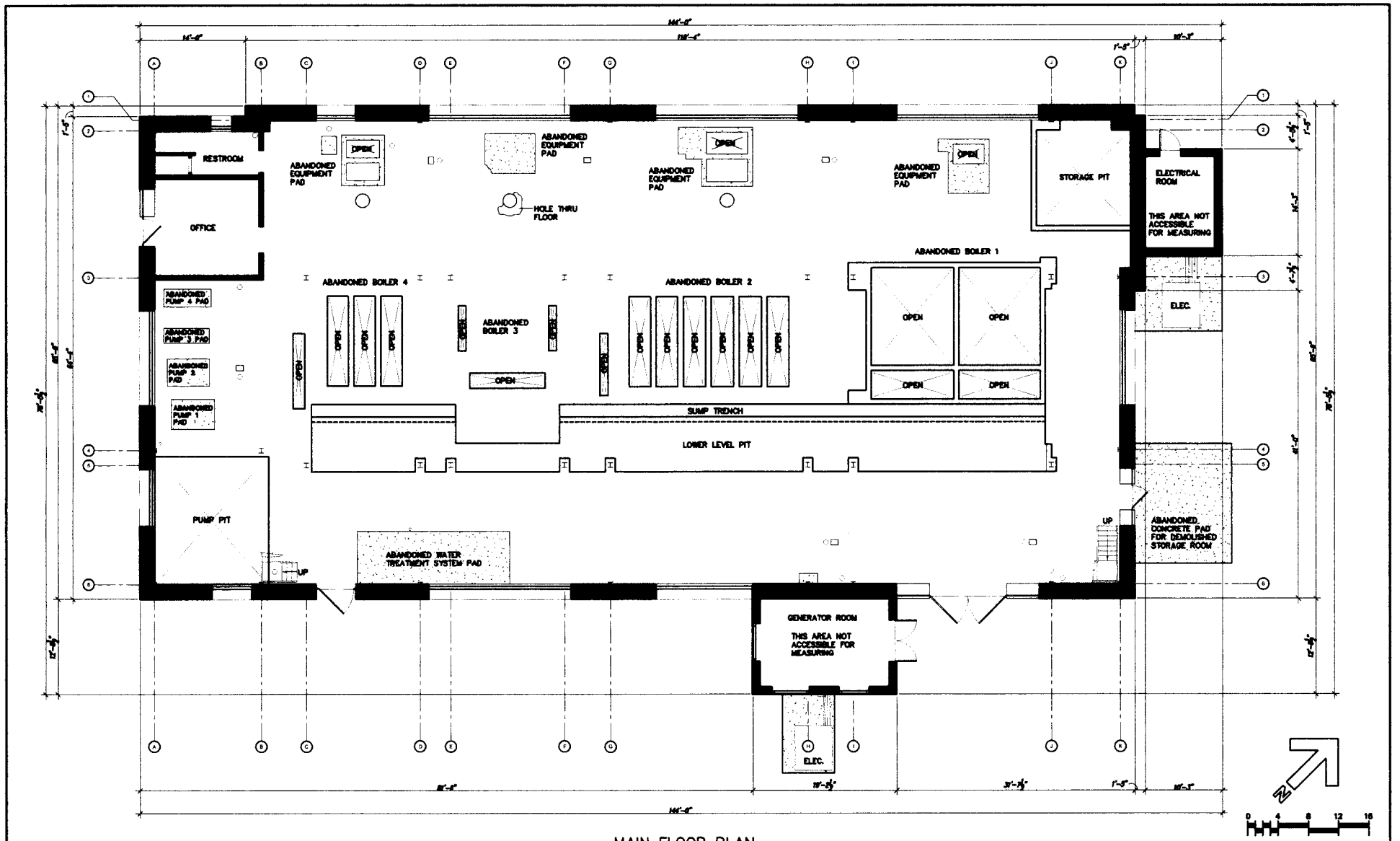
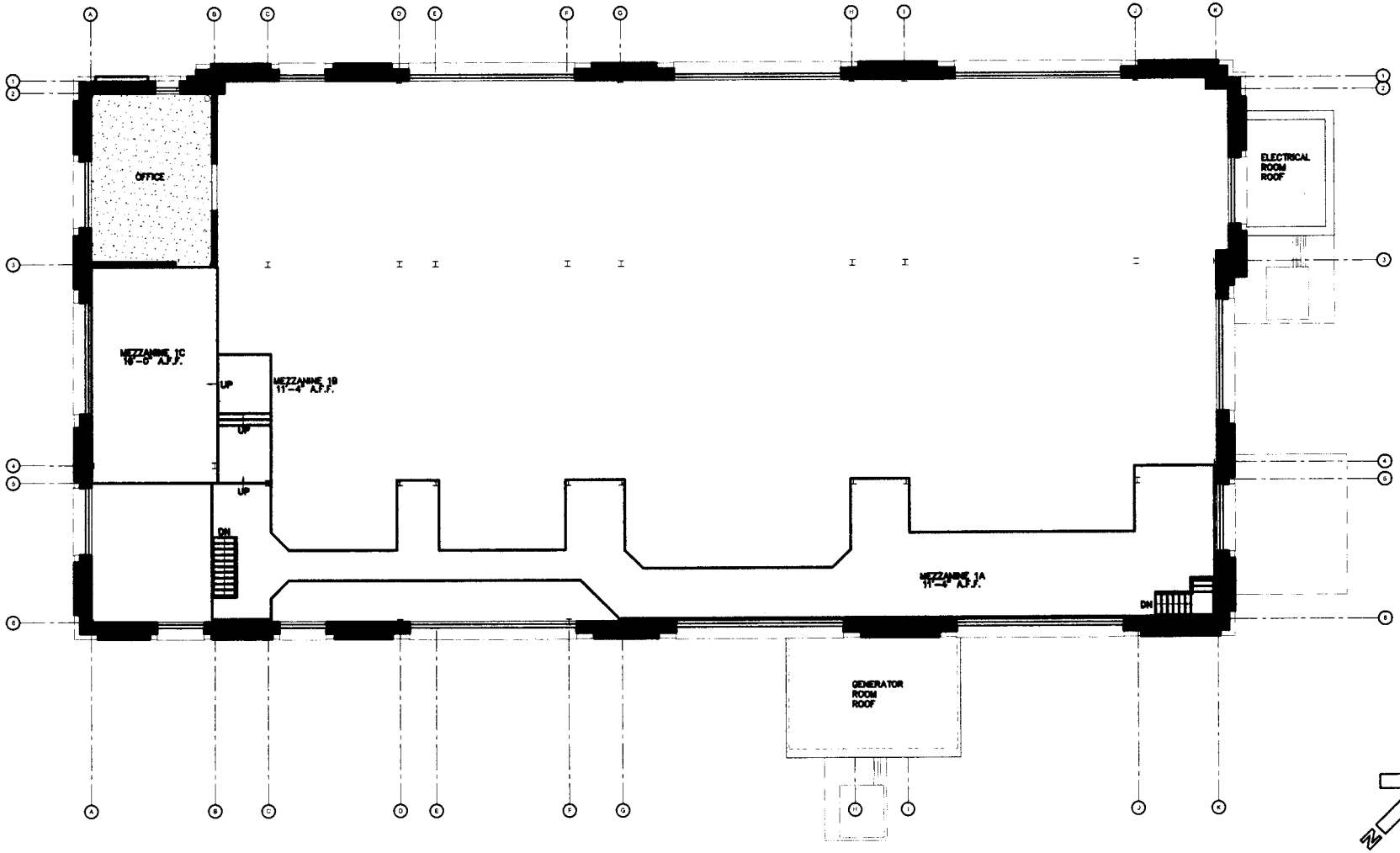
Illinois Historic American Building Survey
Building 45 (Former Building 13/Steam Plant)
IL HABS Number S-2008-1
Scott Air Force Base, Illinois



MAIN FLOOR PLAN

PROJECT: ILLINOIS HISTORIC AMERICAN BUILDINGS SURVEY
BUILDING 45 (FORMER BUILDING 13/STEAM PLANT)

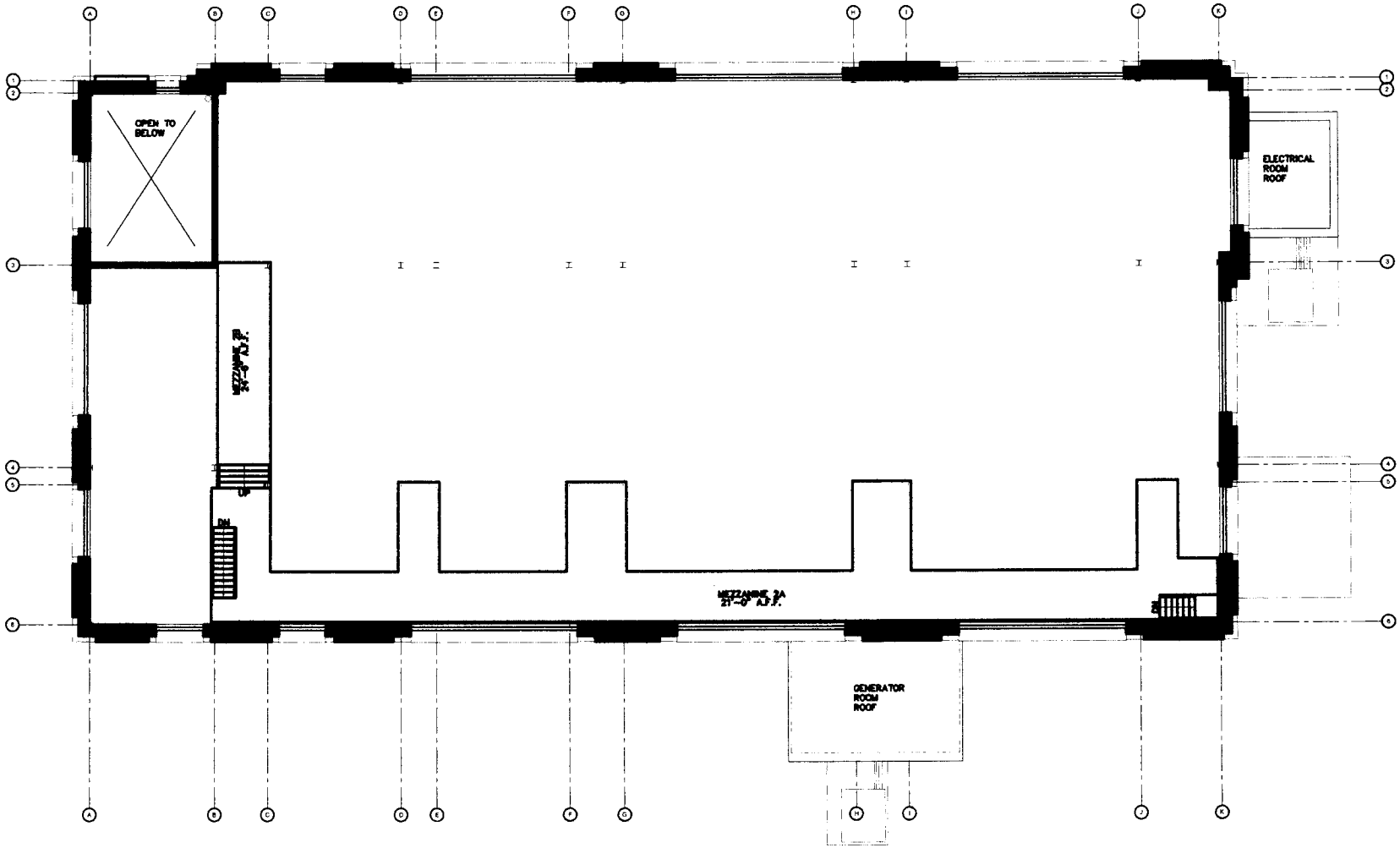
DATE: APRIL 07, 2008
IL HABS No.: S-2008-1



FIRST MEZZANINE PLAN

PROJECT: ILLINOIS HISTORIC AMERICAN BUILDINGS SURVEY
BUILDING 45 (FORMER BUILDING 13/STEAM PLANT)

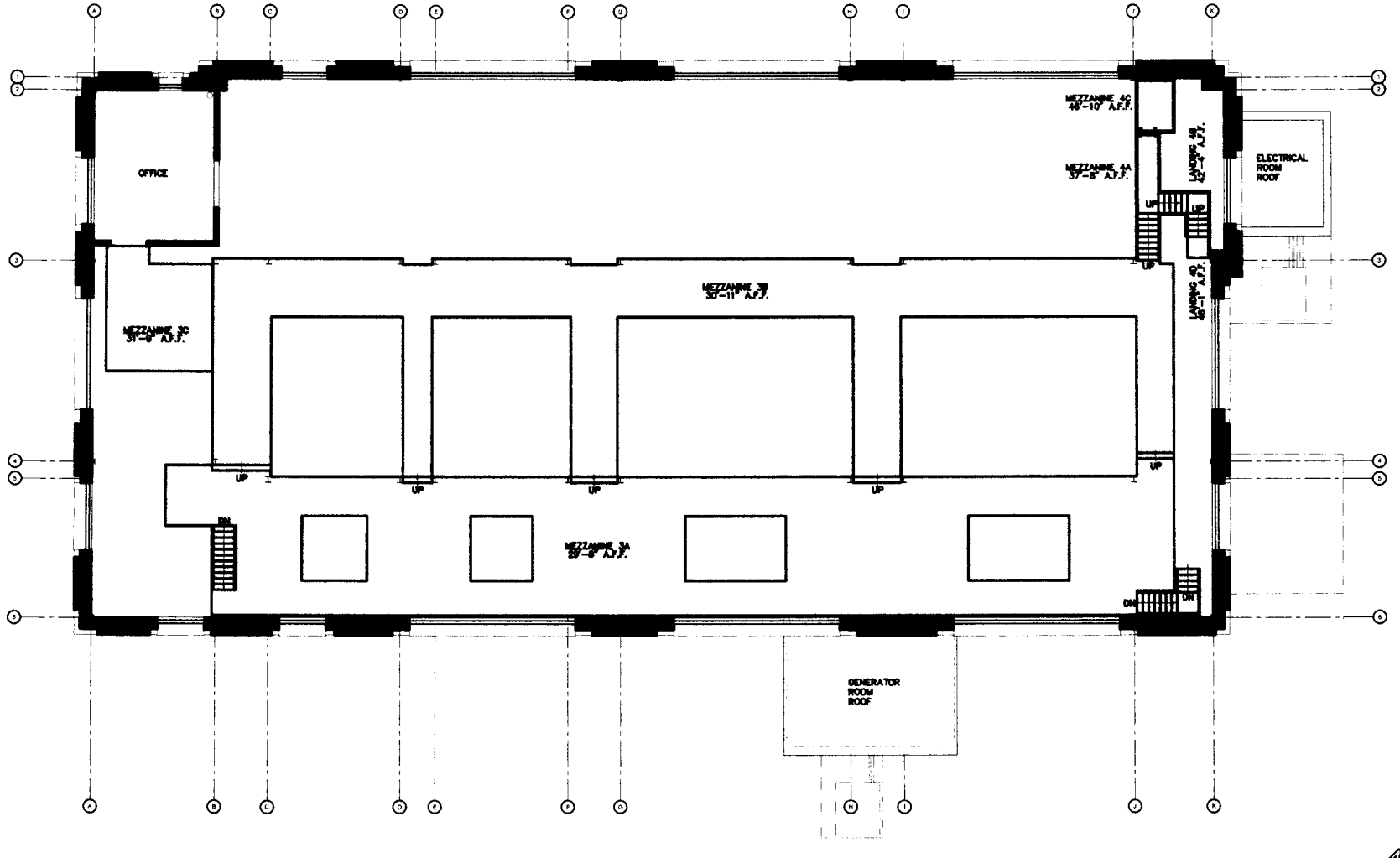
DATE: APRIL 07, 2008
IL HABS No.: S-2008-1



SECOND MEZZANINE PLAN

PROJECT: ILLINOIS HISTORIC AMERICAN BUILDINGS SURVEY
BUILDING 45 (FORMER BUILDING 13/STEAM PLANT)

DATE: APRIL 07, 2008
IL HABS No.: S-2008-1



THIRD MEZZANINE PLAN

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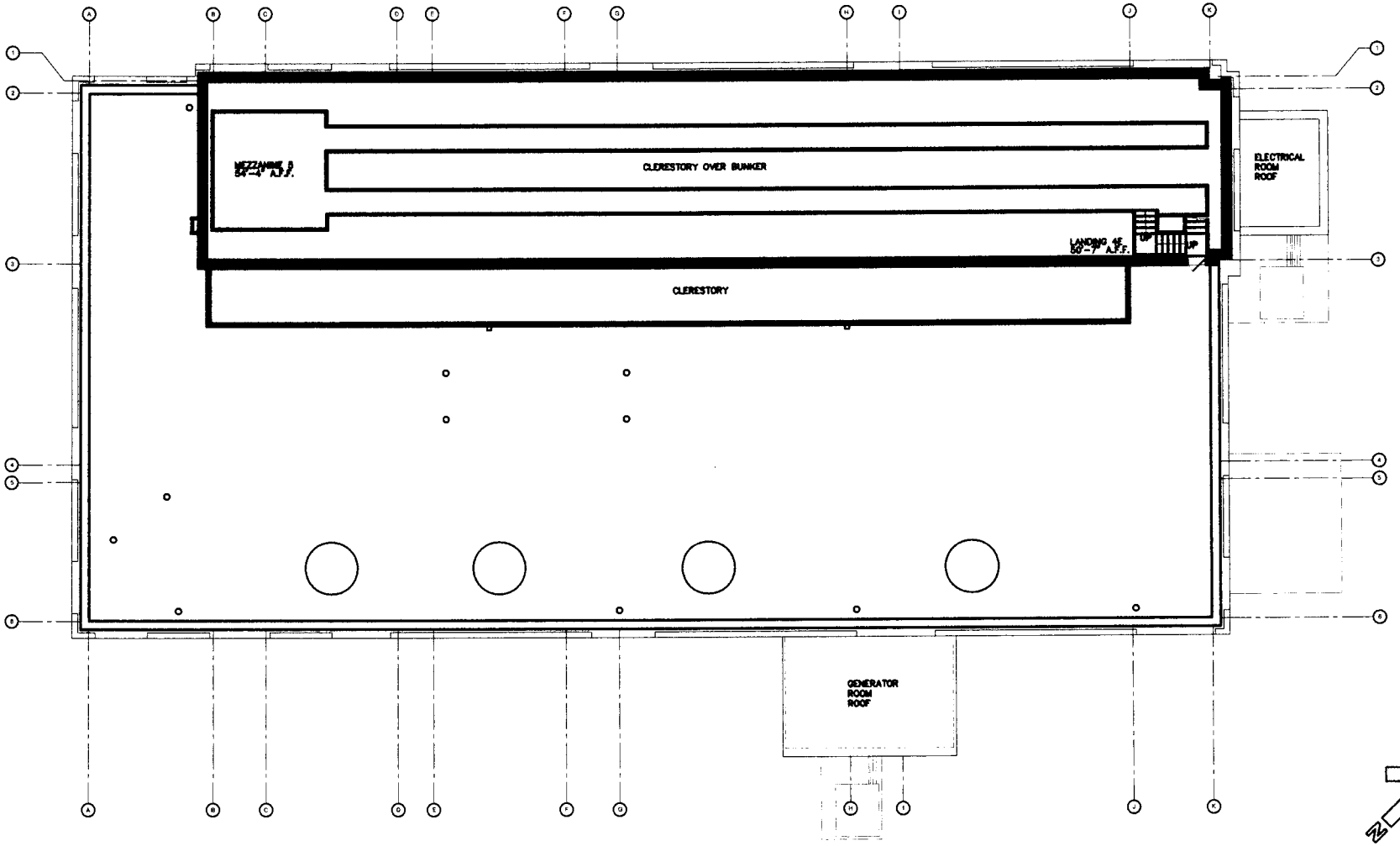
BUILDING 45 (FORMER BUILDING 13/STEAM PLANT)

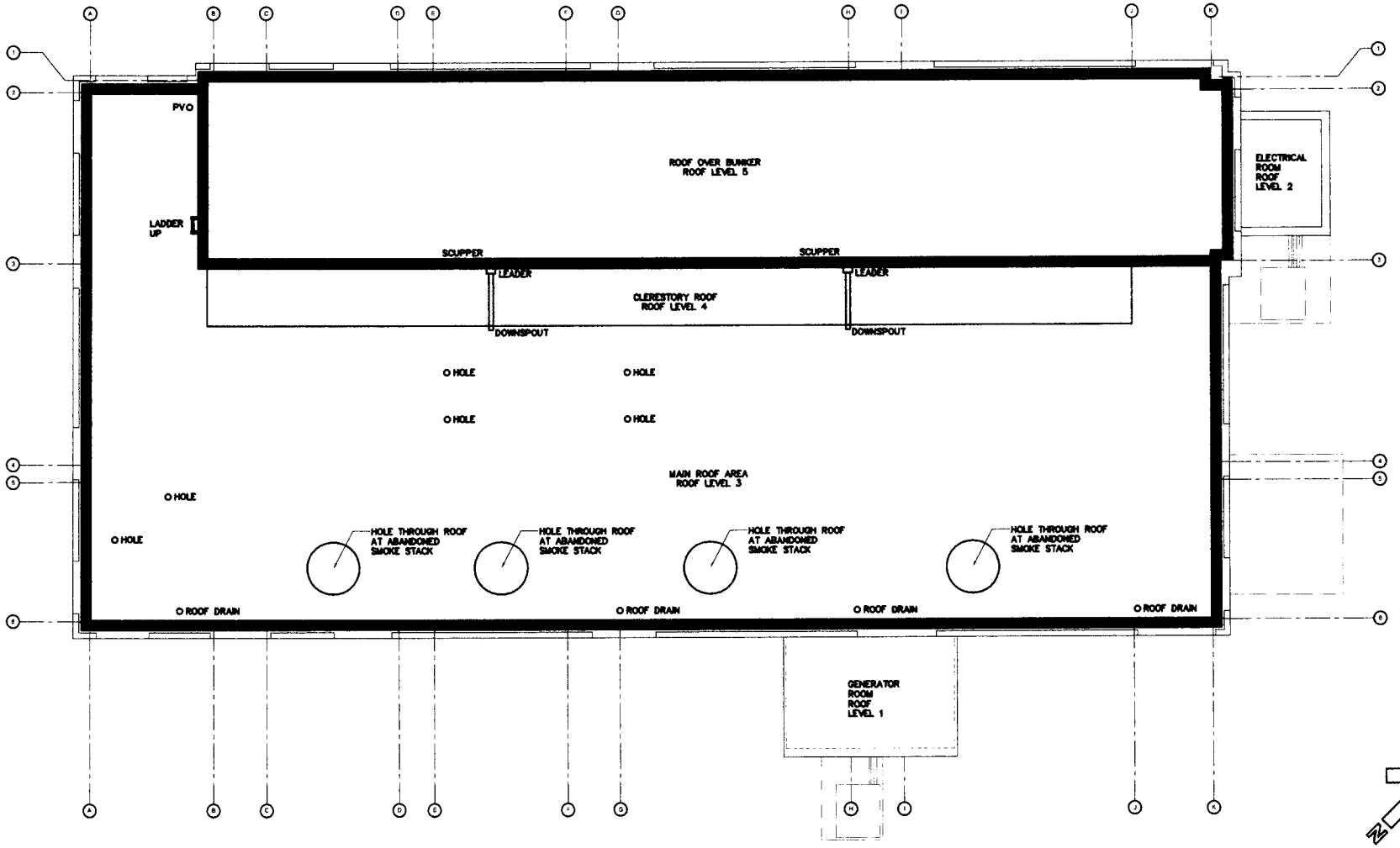
DATE: APRIL 07, 2008
IL HABS No.: S-2008-1



CLERESTORY PLAN

PROJECT: ILLINOIS HISTORIC AMERICAN BUILDINGS SURVEY
BUILDING 45 (FORMER BUILDING 13/STEAM PLANT)

DATE: APRIL 07, 2008
IL HABS No.: IL-2008-1



ROOF PLAN

PROJECT: ILLINOIS HISTORIC AMERICAN BUILDINGS SURVEY
BUILDING 45 (FORMER BUILDING 13/STEAM PLANT)

DATE: APRIL 07, 2008
IL HABS No.: 9-2008-1

Index to Photographs

Illinois Historic American Building Survey
Building 45 (Former Building 13/Steam Plant)
IL HABS Number S-2008-1
Scott Air Force Base, Illinois

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IL HABS Number S-2008-1.2	Building 45 Exterior — View from Northwest
IL HABS Number S-2008-1.3	Building 45 Exterior — View from Northeast
IL HABS Number S-2008-1.4	Building 45 Exterior — View from Southwest
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IL HABS Number S-2008-1.6	Building 45 Interior — View Looking East
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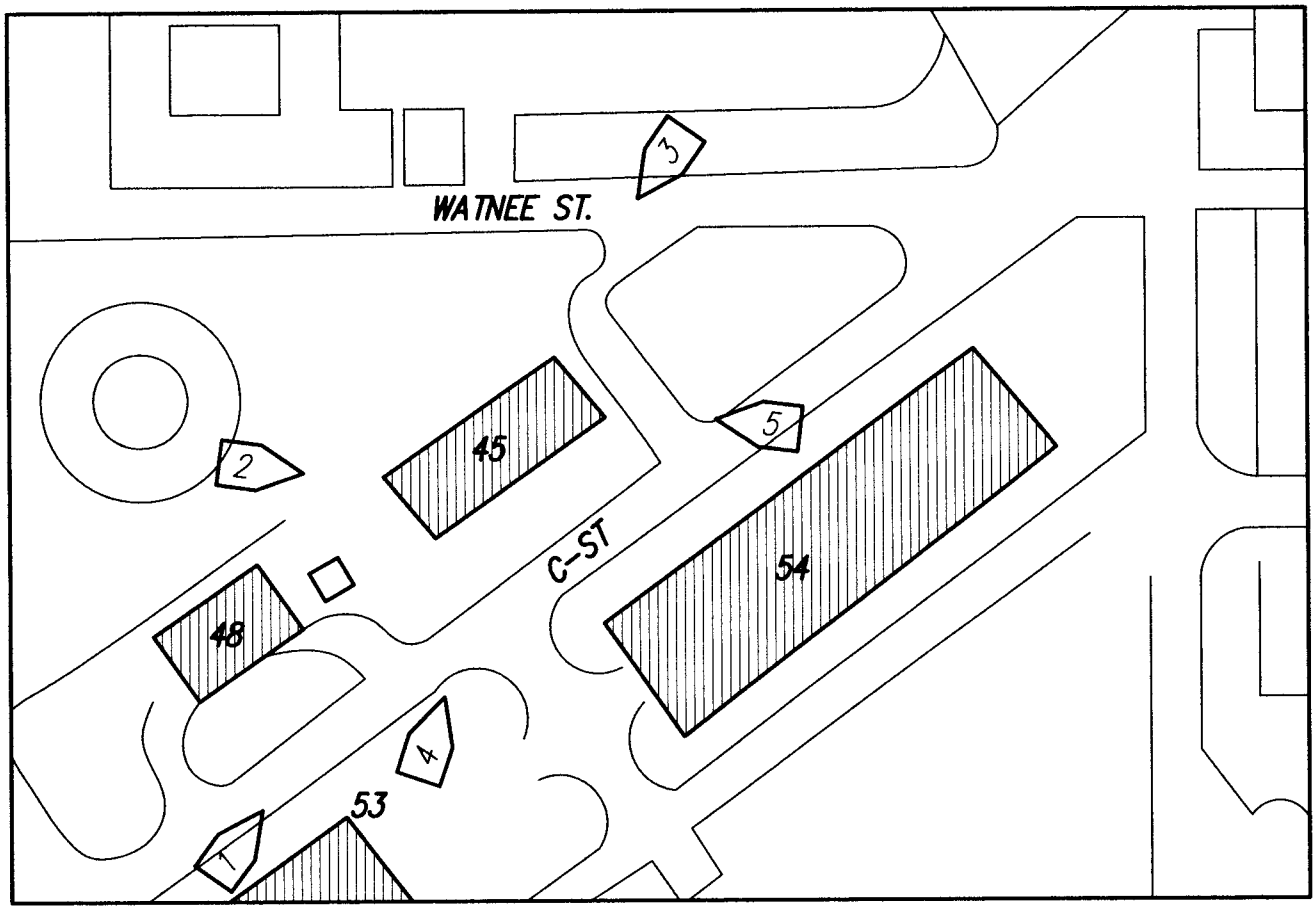
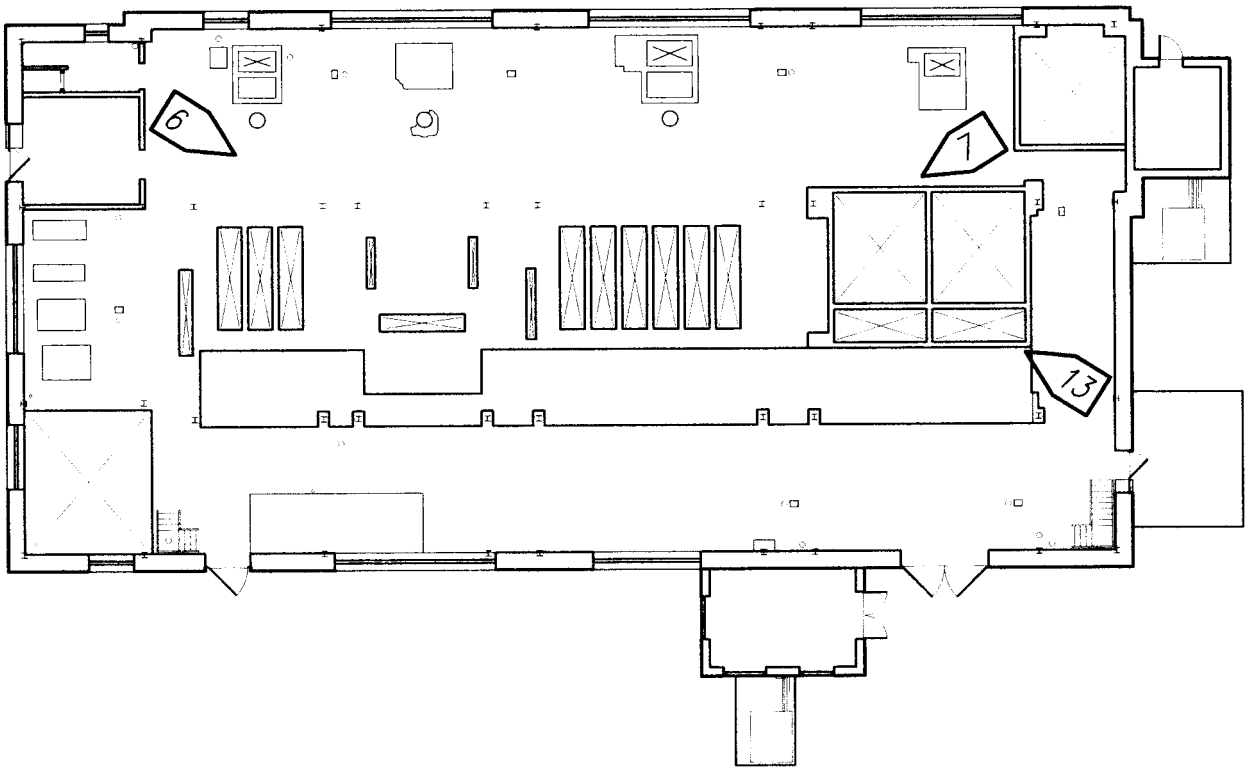
IL HABS Number S-2008-1.10	Building 45 Interior Fourth Floor Mezzanine — View Looking Southwest
IL HABS Number S-2008-1.11	Building 45 Interior — View Looking Southwest and Down from Fourth Floor Mezzanine
IL HABS Number S-2008-1.12	Building 45 Interior — View Looking North and Down from Third Floor Mezzanine
IL HABS Number S-2008-1.13	Building 45 Interior — View Boiler #1 Ash Pit



BUILDING 45 SITE PLAN (PHOTO VIEW KEY)

NOT TO SCALE

PROJECT: ILLINOIS HISTORIC AMERICAN BUILDING SURVEY BUILDING 45 (FORMER BUILDING 13/STEAM PLANT)	DATE: MARCH 24, 2008 IL HABS No.: S-2008-1



BUILDING 45 MAIN FLOOR PLAN (PHOTO VIEW KEY)

NOT TO SCALE

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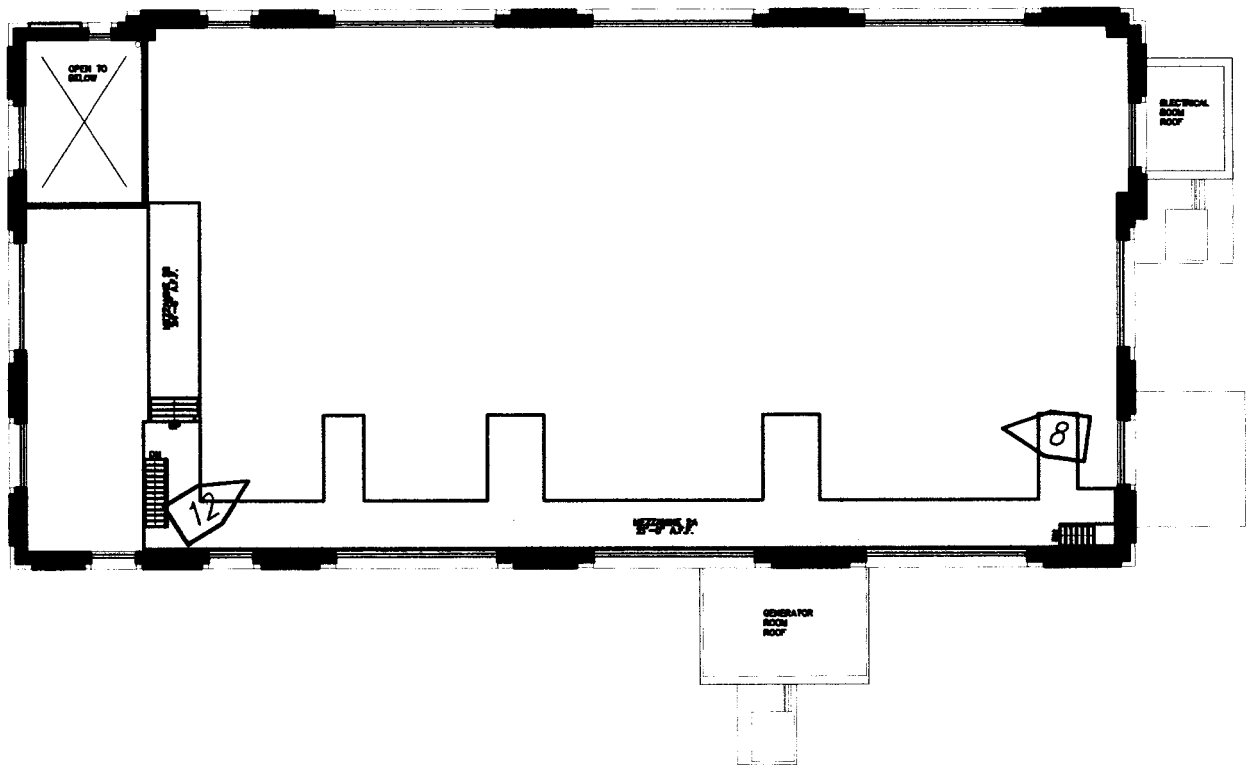
PROJECT:
ILLINOIS HISTORIC AMERICAN
BUILDING SURVEY
BUILDING 45 (FORMER BUILDING 13/STEAM PLANT)

DATE:
MARCH 24, 2008
IL HABS No.:
S-2008-1



BUILDING 45 FIRST MEZZANINE PLAN
(PHOTO VIEW KEY)

NOT TO SCALE

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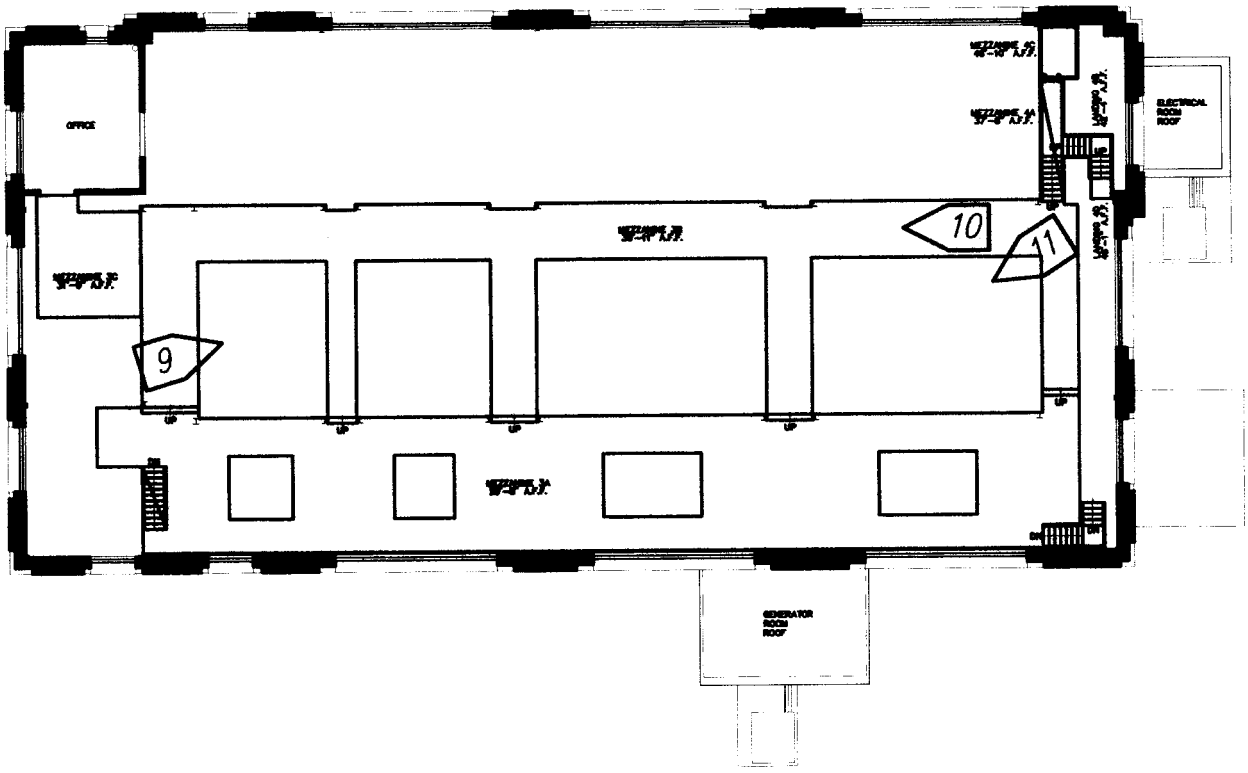
PROJECT: ILLINOIS HISTORIC AMERICAN BUILDING SURVEY BUILDING 45 (FORMER BUILDING 13/STEAM PLANT)	DATE: MARCH 24, 2008 IL HABS No.: S-2008-1



BUILDING 45 THIRD MEZZANINE PLAN
(PHOTO VIEW KEY)

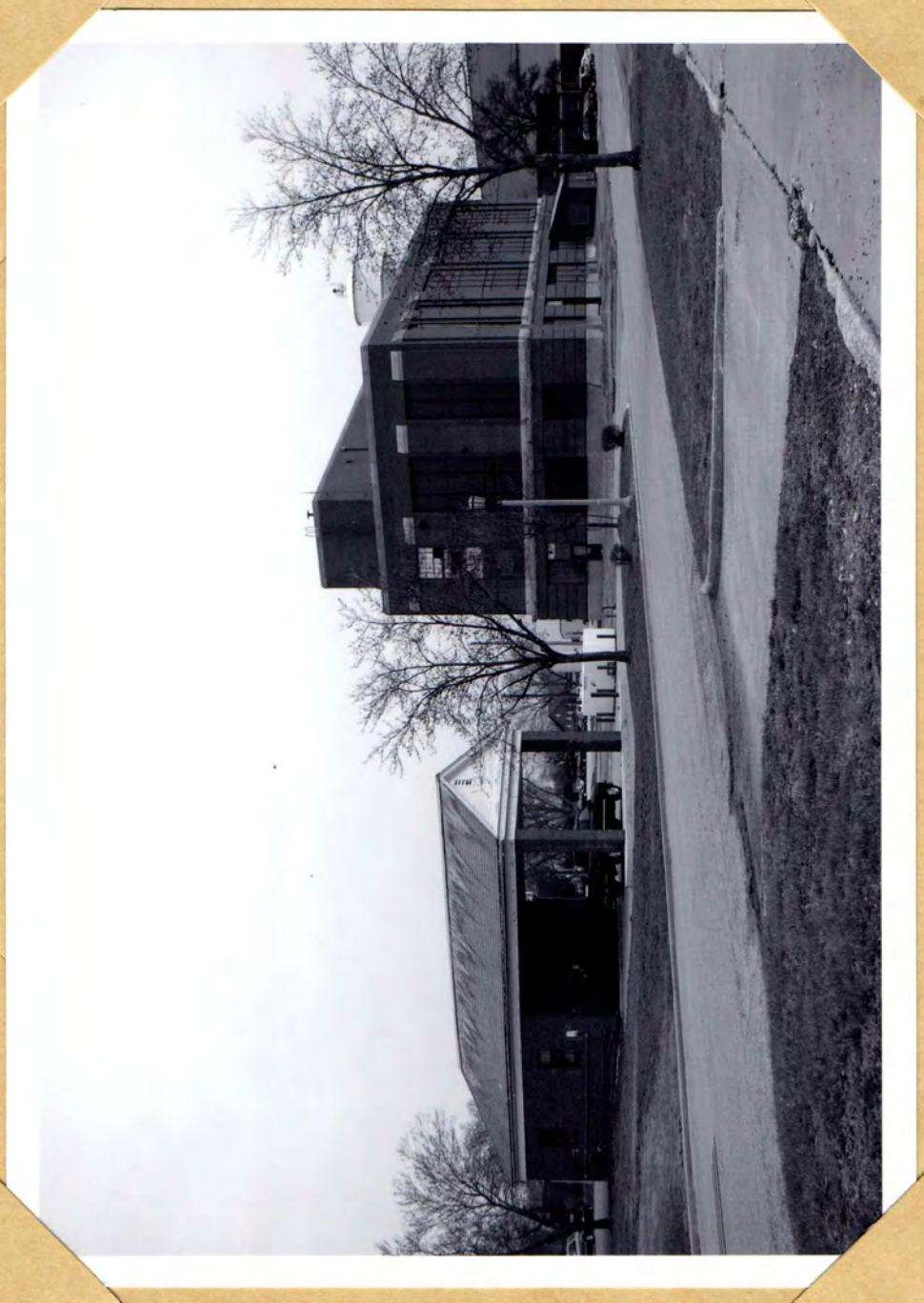
NOT TO SCALE

N

PROJECT:
ILLINOIS HISTORIC AMERICAN
BUILDING SURVEY
BUILDING 45 (FORMER BUILDING 13/STEAM PLANT)

DATE:
MARCH 24, 2008
IL HABS No.:
S-2008-1

IL. HABS NO. (S-2008-1.1)
SEE INDEX TO PHOTOGRAPHS FOR CAPTIONS



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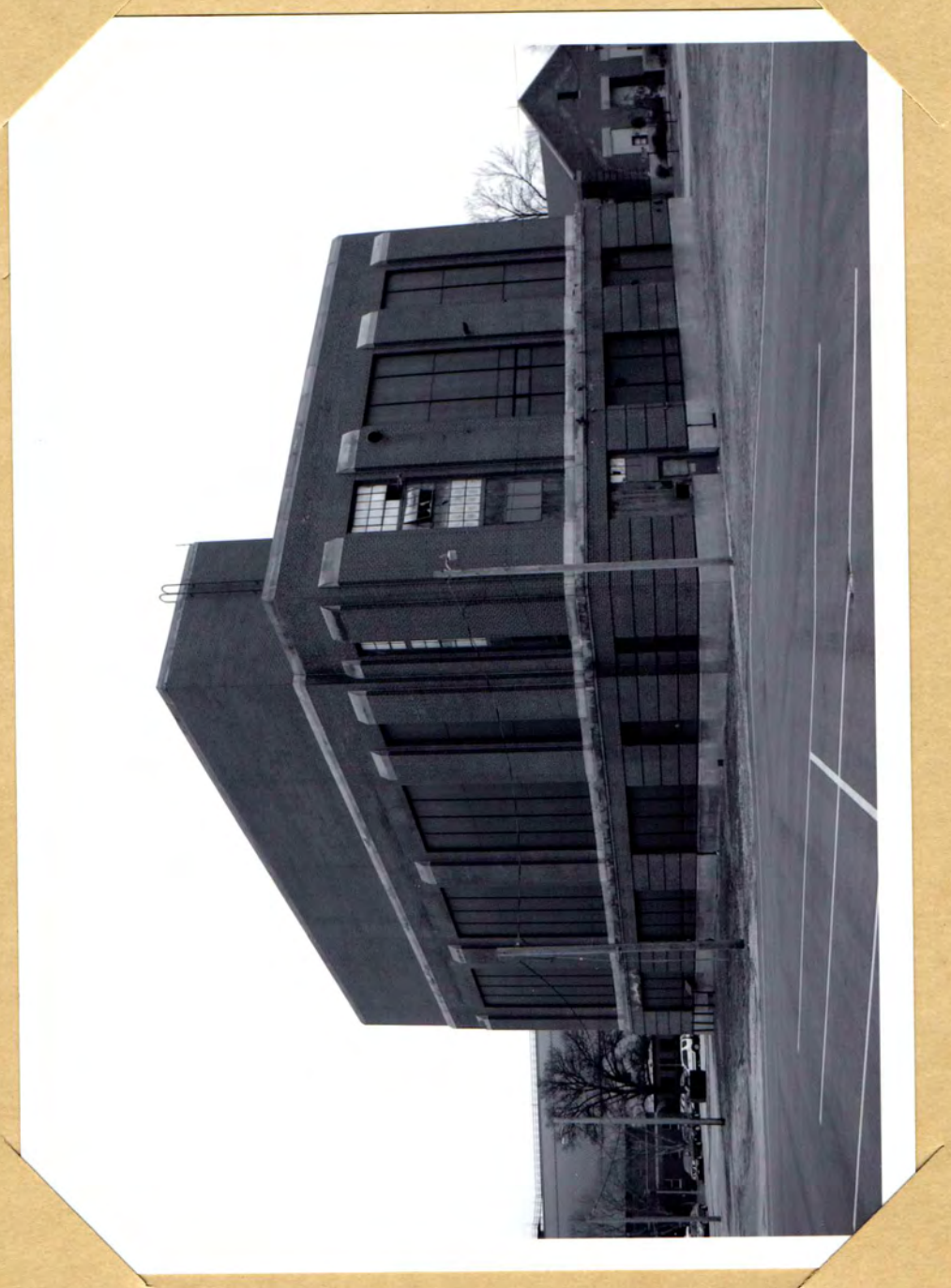

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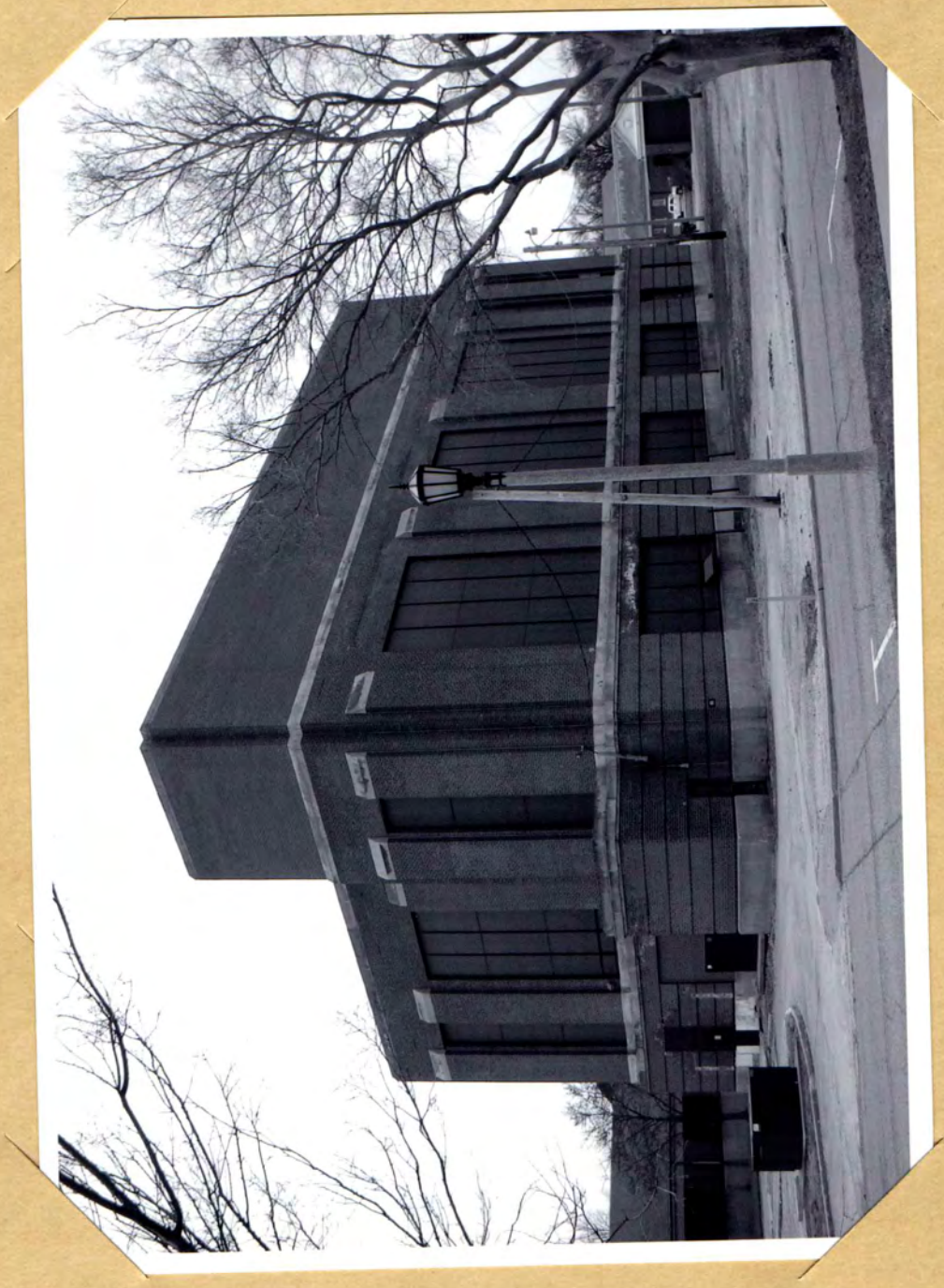
SEE INDEX TO PHOTOGRAPHS FOR CAPTIONS



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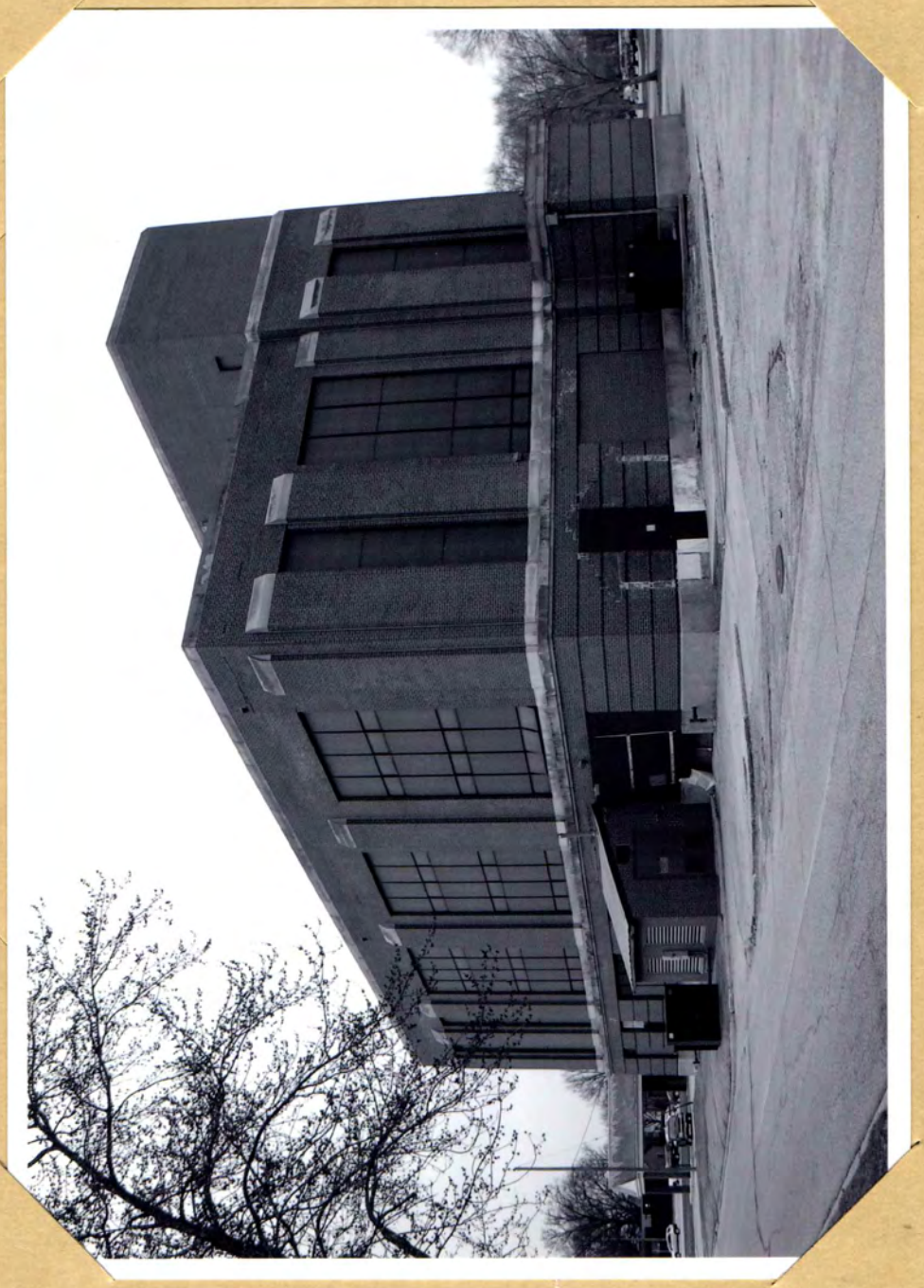

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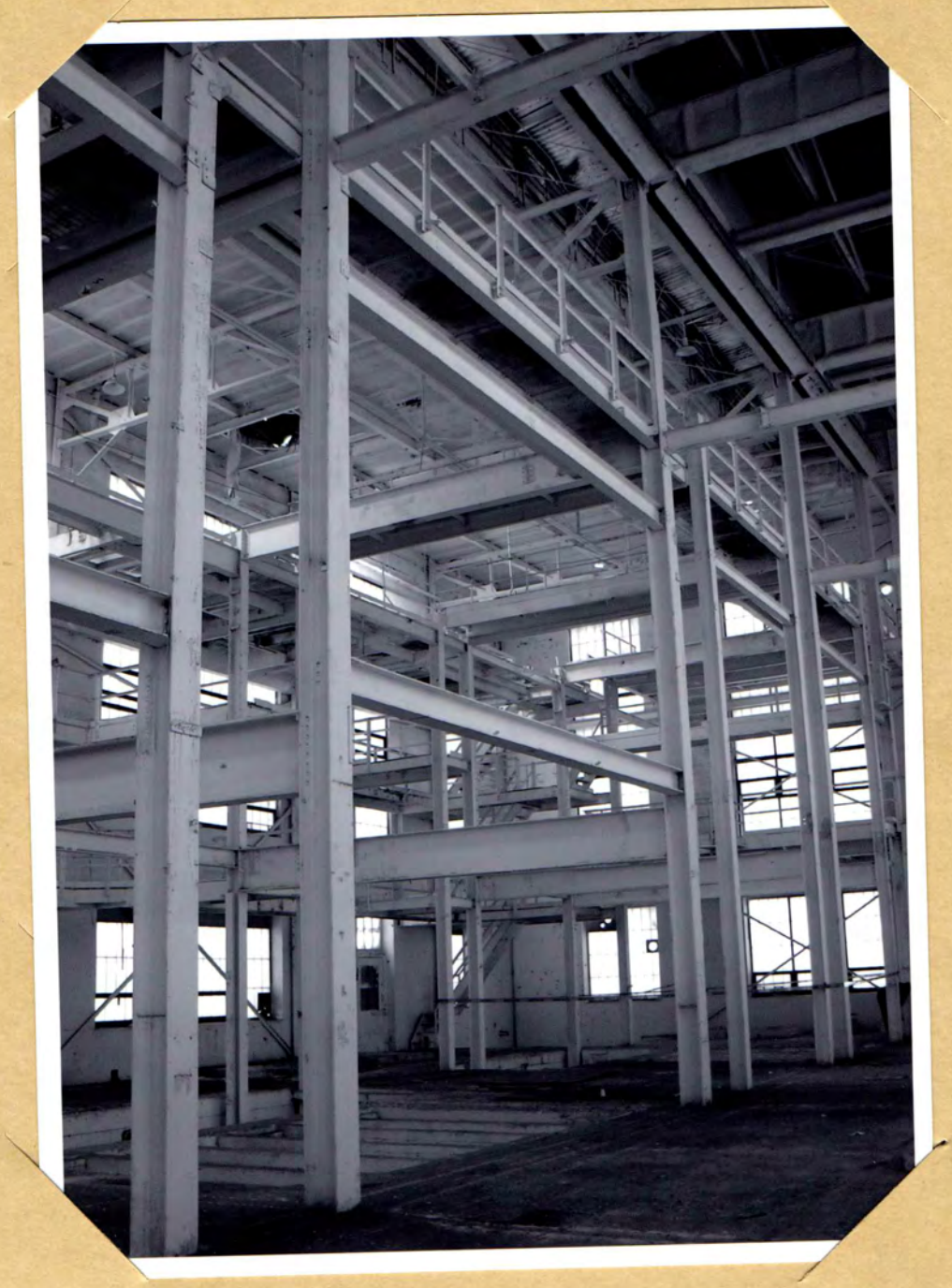

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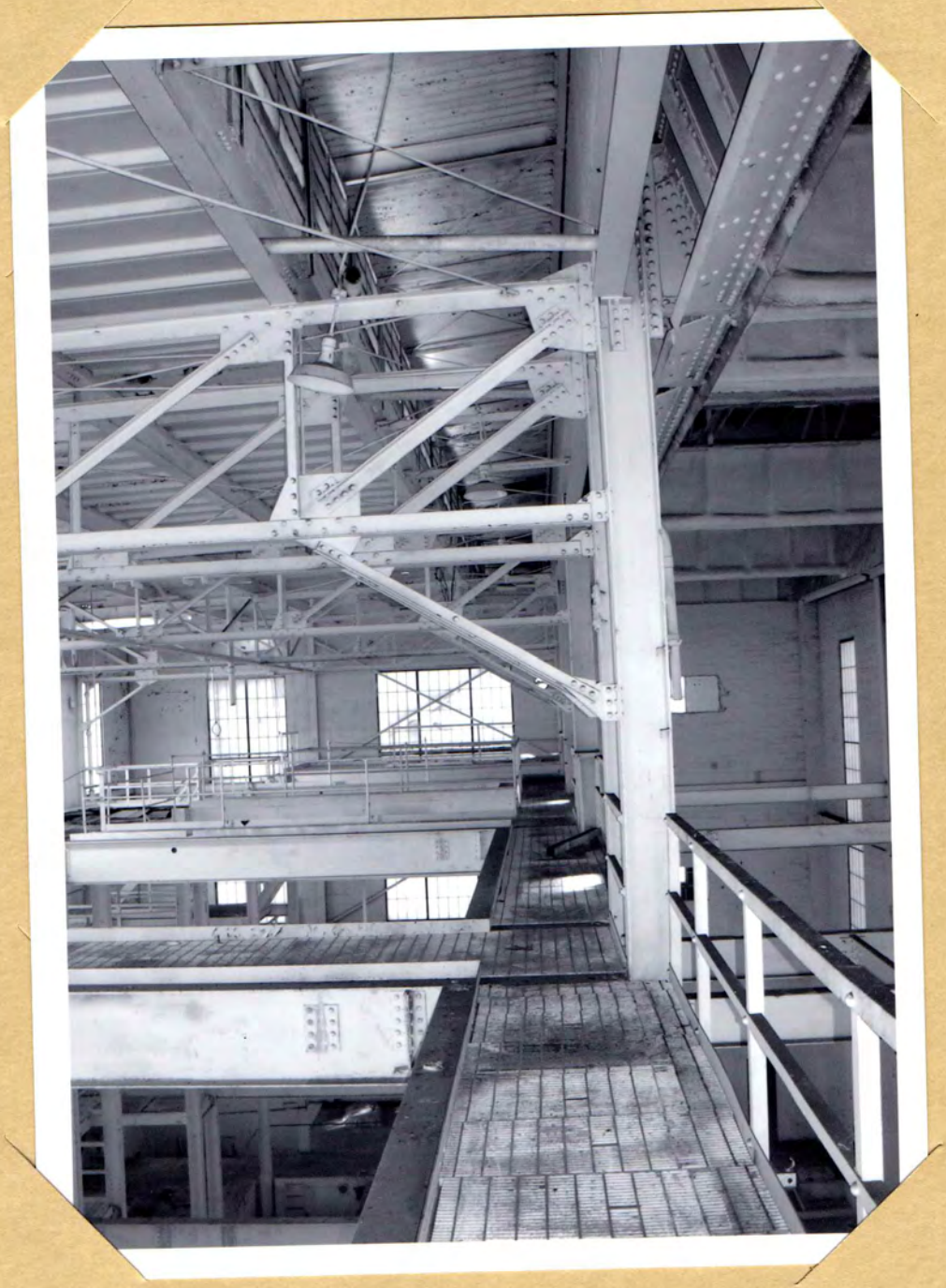

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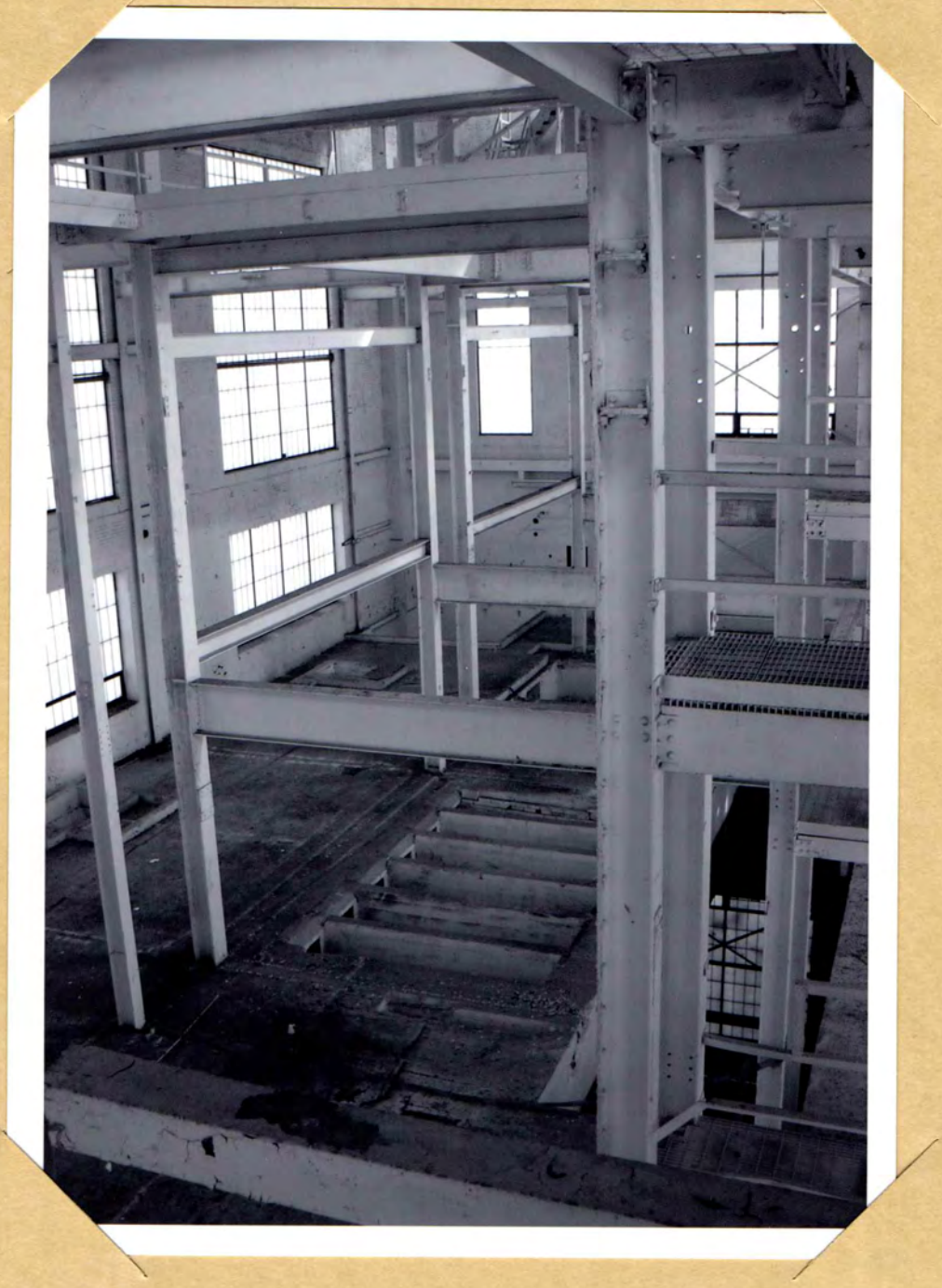

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