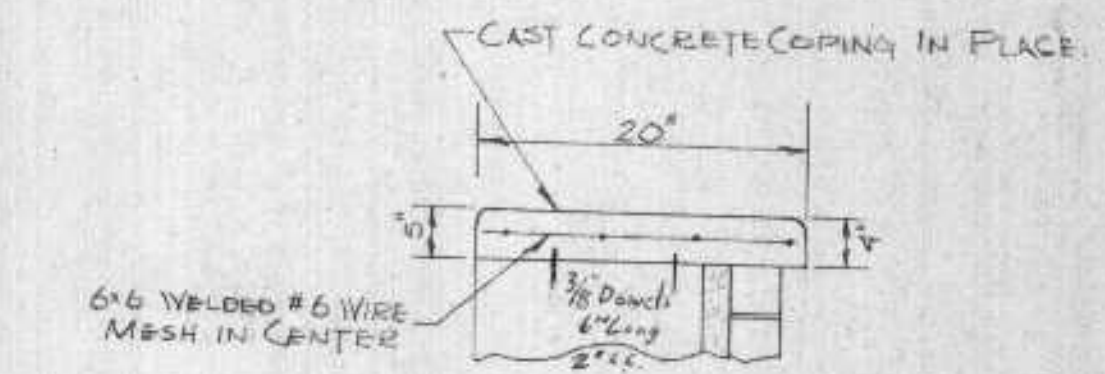
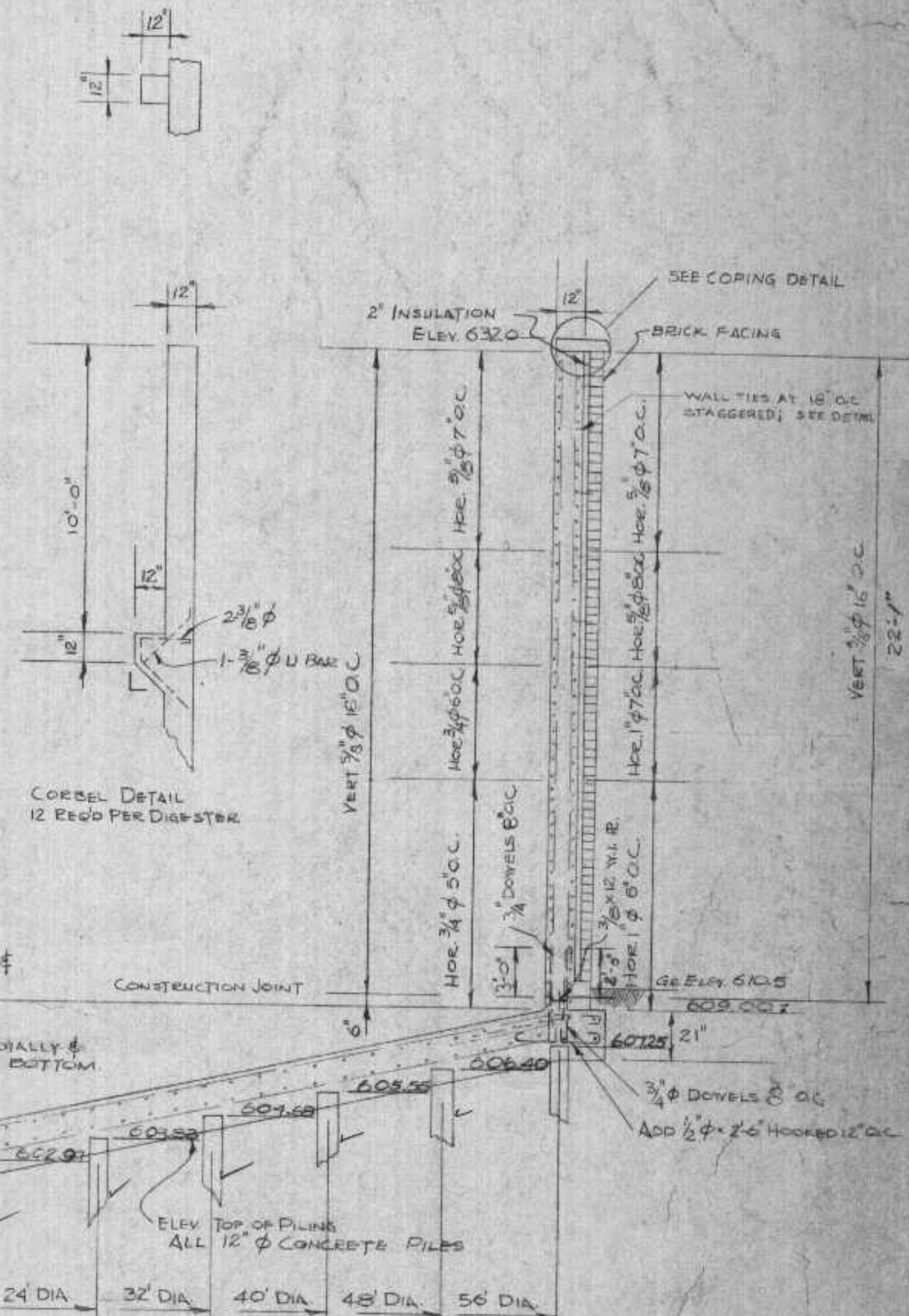


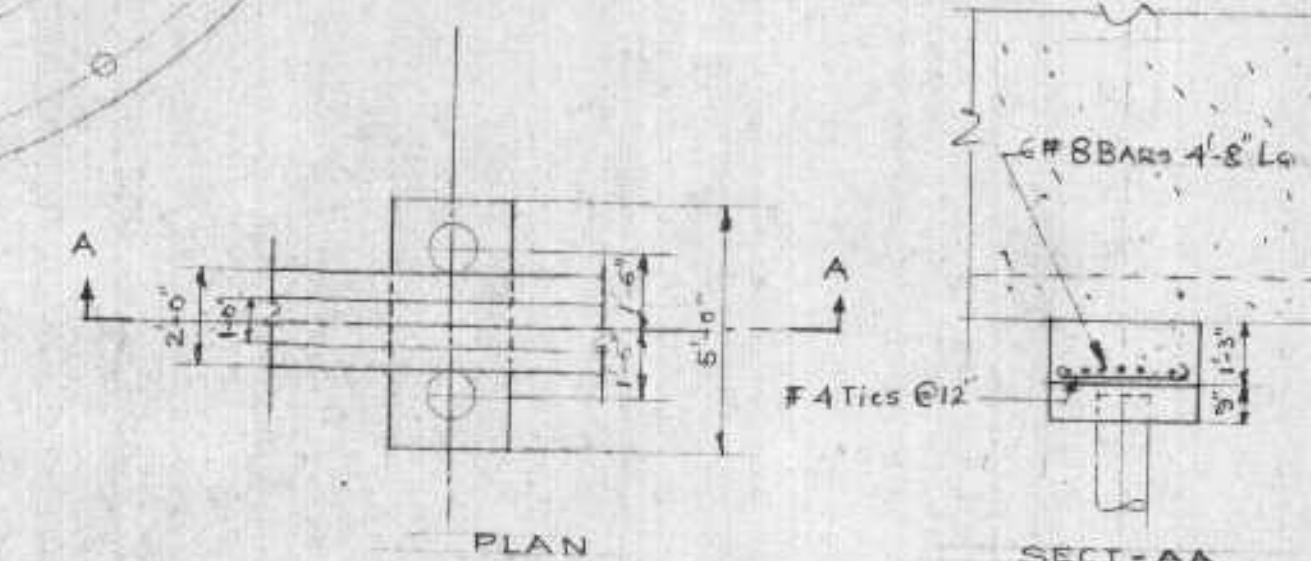
TANK WALL TIES & EXPANSION JOINT DETAIL
LOCATE EXPANSION JOINTS AT 20'-0" C.C.
SCALE 1/2" = 1'-0"



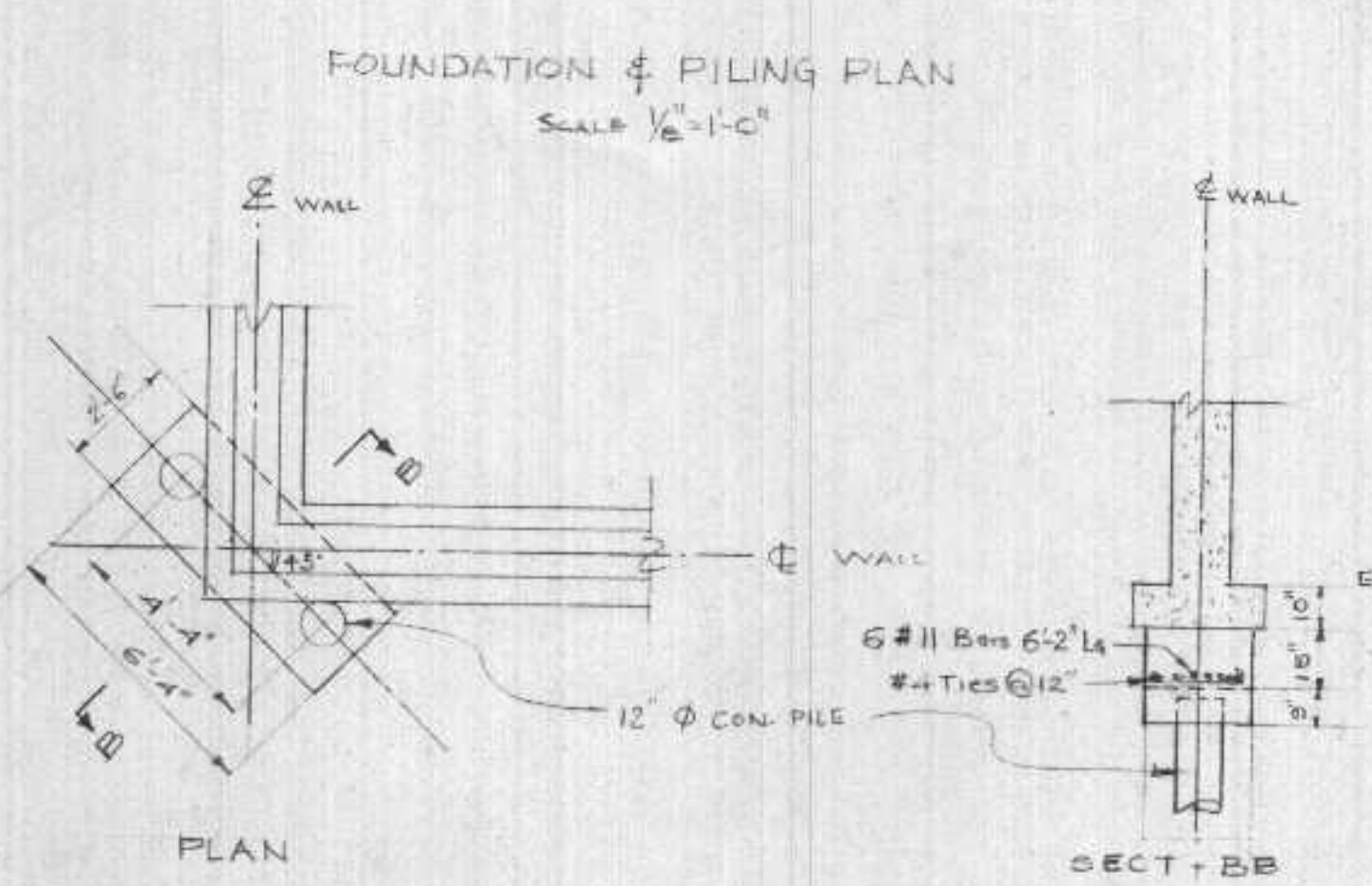
COPING DETAIL
SCALE 1/4" = 1'-0"



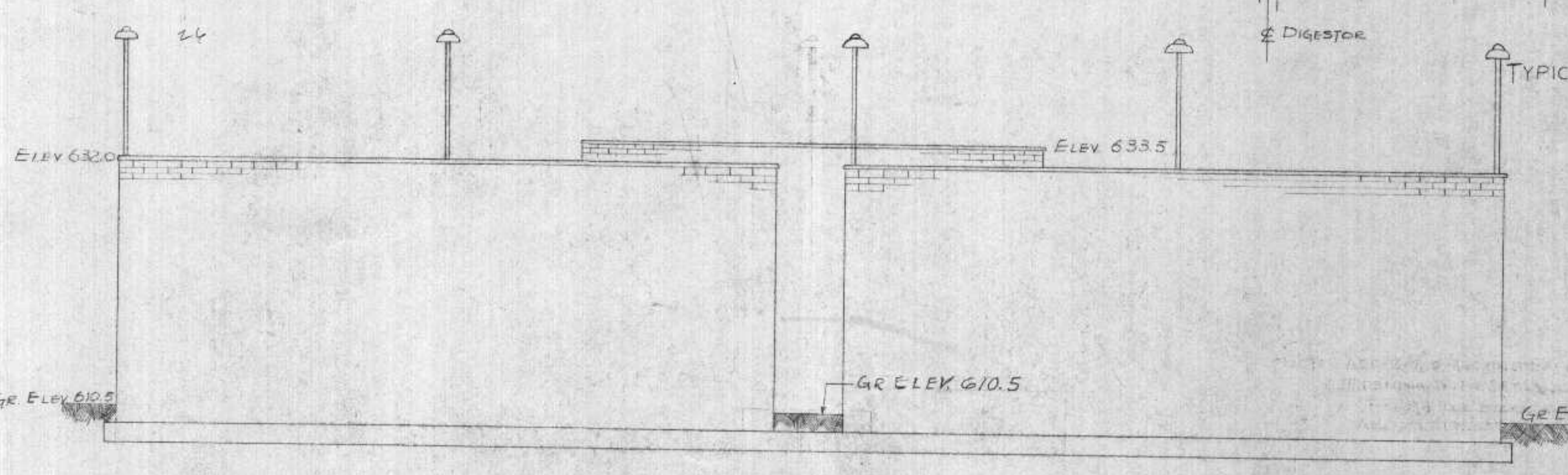
CORSEL DETAIL
12 REB'D PER DIGESTER



DETAIL - A
SCALE 1/4" = 1'-0"



DETAIL - B
SCALE 1/4" = 1'-0"



NORTHEAST ELEVATION
SCALE 1/8" = 1'-0"

DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE
DIVISION OF SANITARY SERVICES
This plan was prepared in connection with the work under the provisions of the Federal Water Pollution Control Act for the purpose of the design and construction of the digester. It is not to be used for any other purpose without the written approval of the Department of Health, Education, and Welfare.

and are hereby APPROVED (Date) _____

and are hereby APPROVED (Date) _____

NOTE: ADD 2" REB'D AROUND EACH DOOR & WINDOW OPENING WITH 2 FT. ANCHORAGE EACH END.
FOR GLASS BLOCK & DOOR SPECS SEE ARCHT'S DVS.

EXAMINED and reported upon by the Section on Environmental Sanitation
O. J. MUEGGE
State Sanitary Engineer

APPROVED by the State Board of Health, as required by Wisconsin Statutes, subject to conditions set forth in the letter of approval.
JUL 6 1956
CARL N. NEUBERT, M. D.
State Health Officer

REVISIONS		
DATE	DESCRIPTION	BY
7/1/56	Revised Piling in digester	J.D.
7/1/56	Added steel in digester	J.D.
7/1/56	Added expansion joint wall	J.D.
7/1/56	Added expansion joint	J.D.
7/1/56	Added expansion joint	J.D.

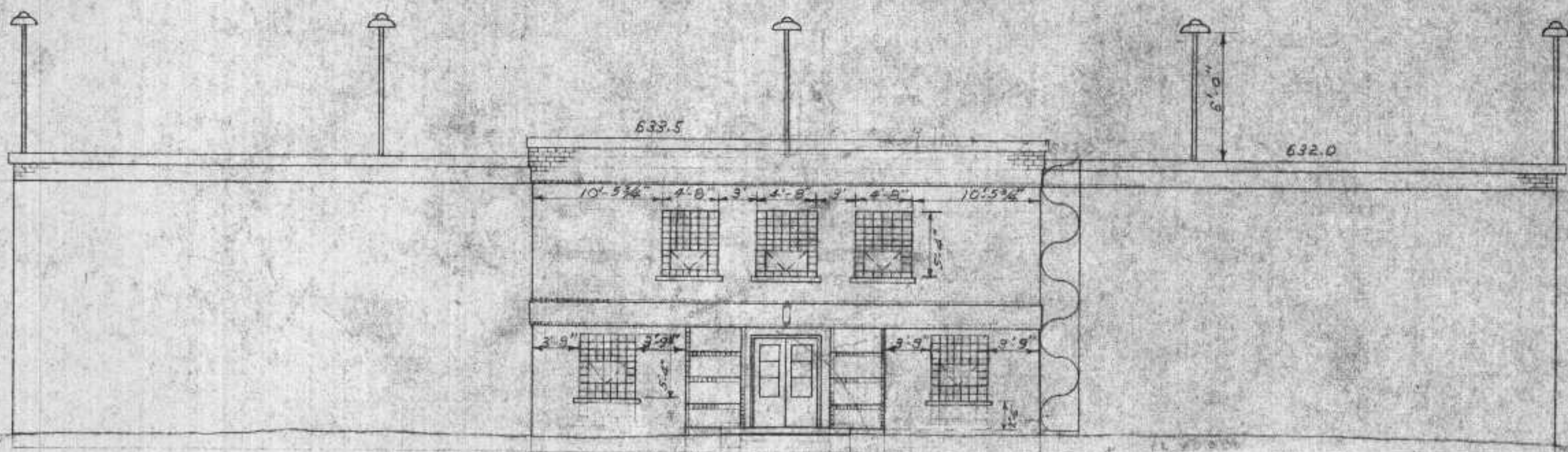
- DIGESTERS -
SEWAGE TREATMENT PLANT
SUPERIOR, WIS.

HITCHCOCK & ESTABROOK, INC.
CONSULTING ENGINEERS
300 LINCOLN BLDG.
MINNEAPOLIS 1, MINN.

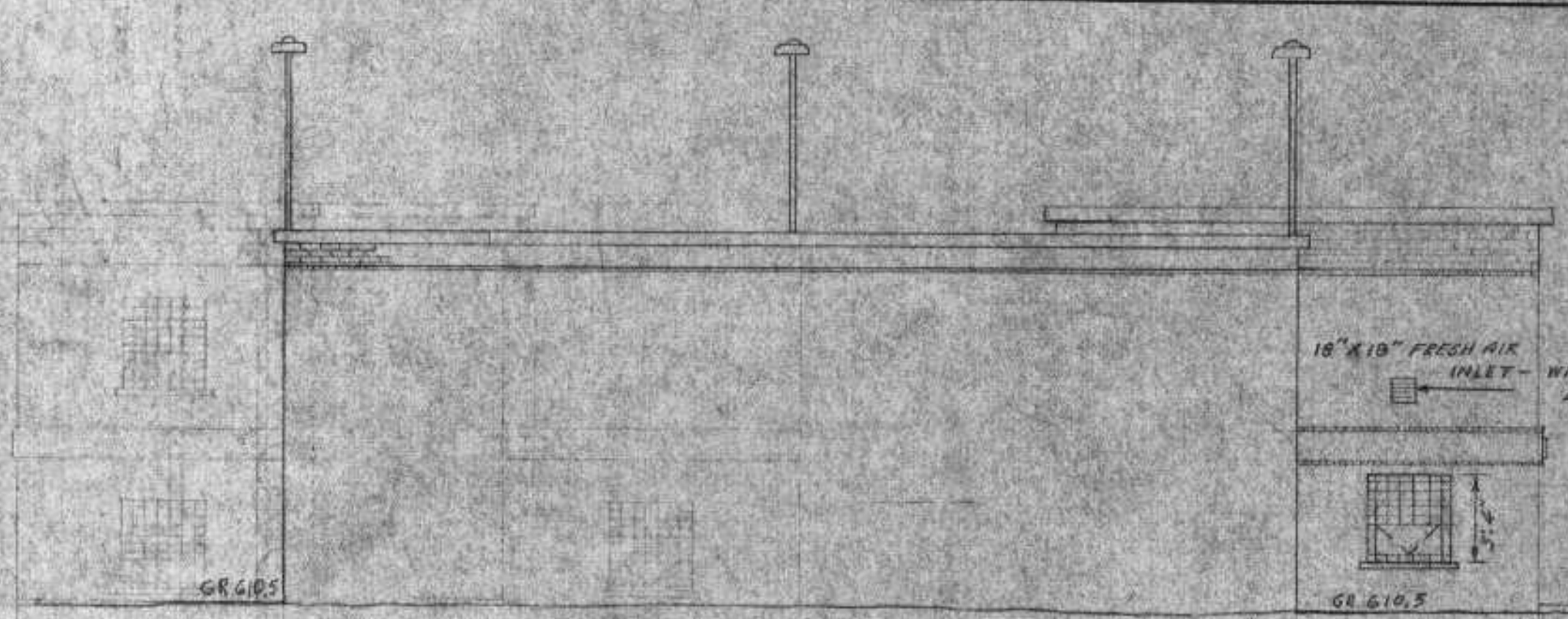
DR. TR. _____
CHKD. APPD. _____

DATE: 4/14/56 SCALE: AS SHOWN

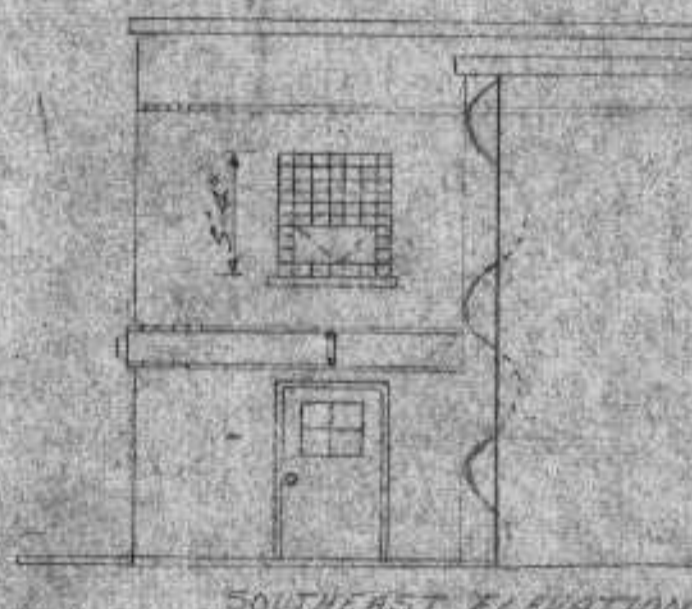
JOB NO. _____
SHEET NO. 53 OF 71



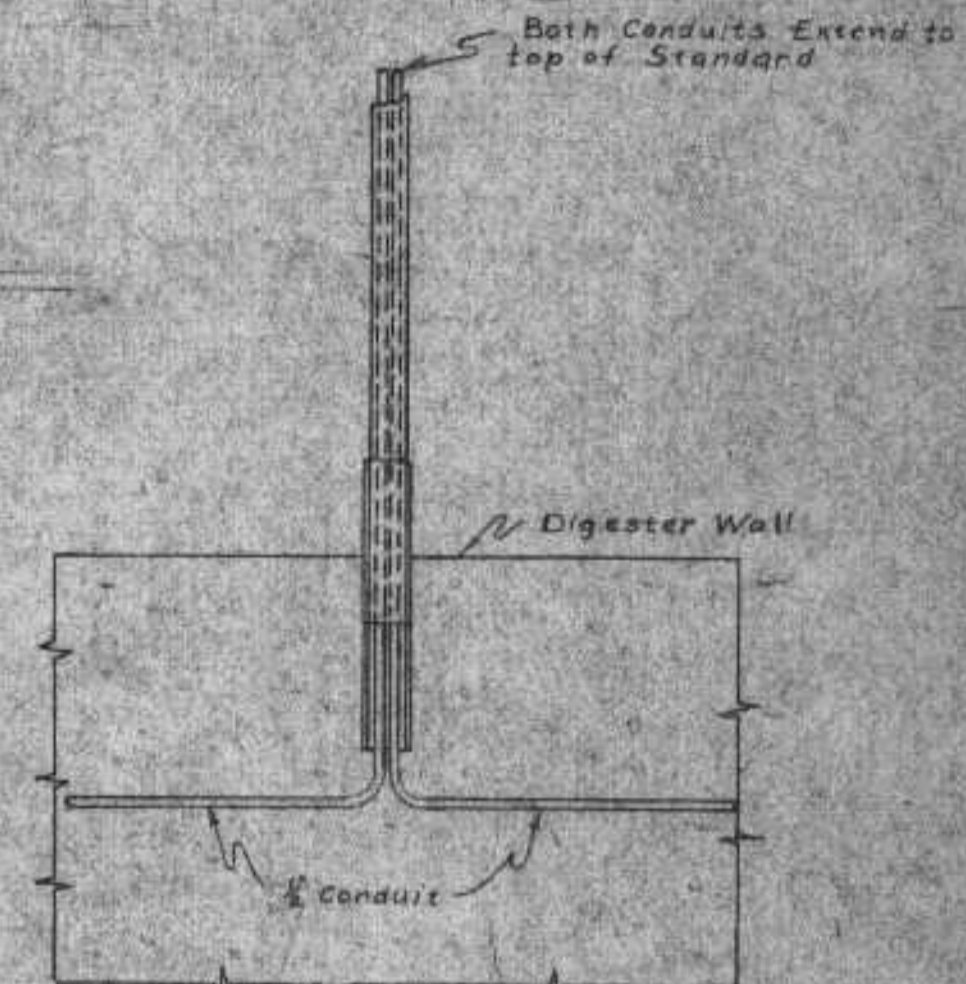
Southwest Elevation



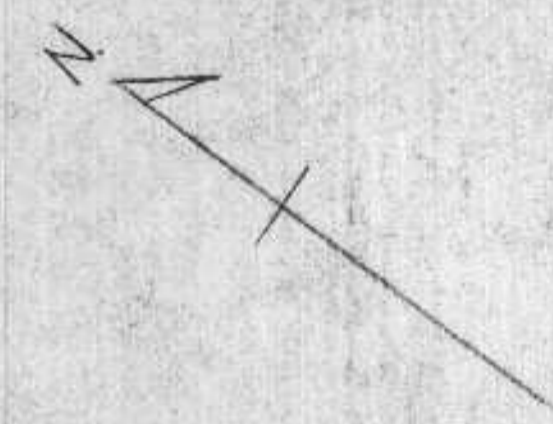
Northwest Elevation



Southeast Elevation

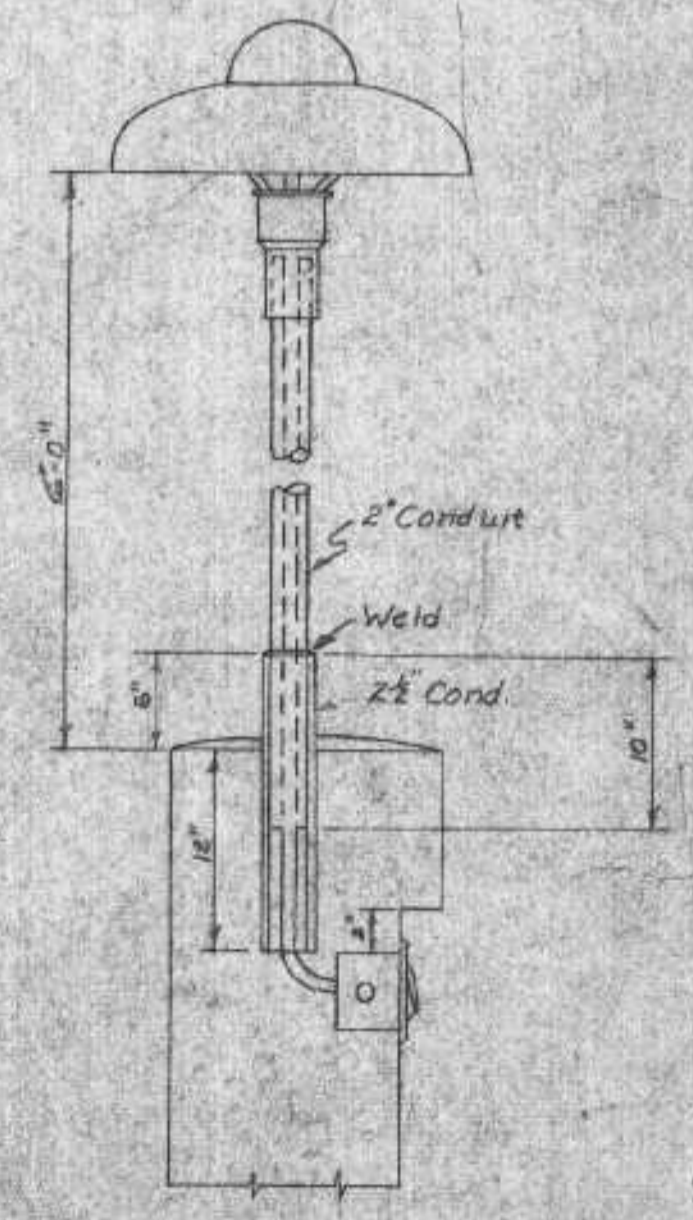
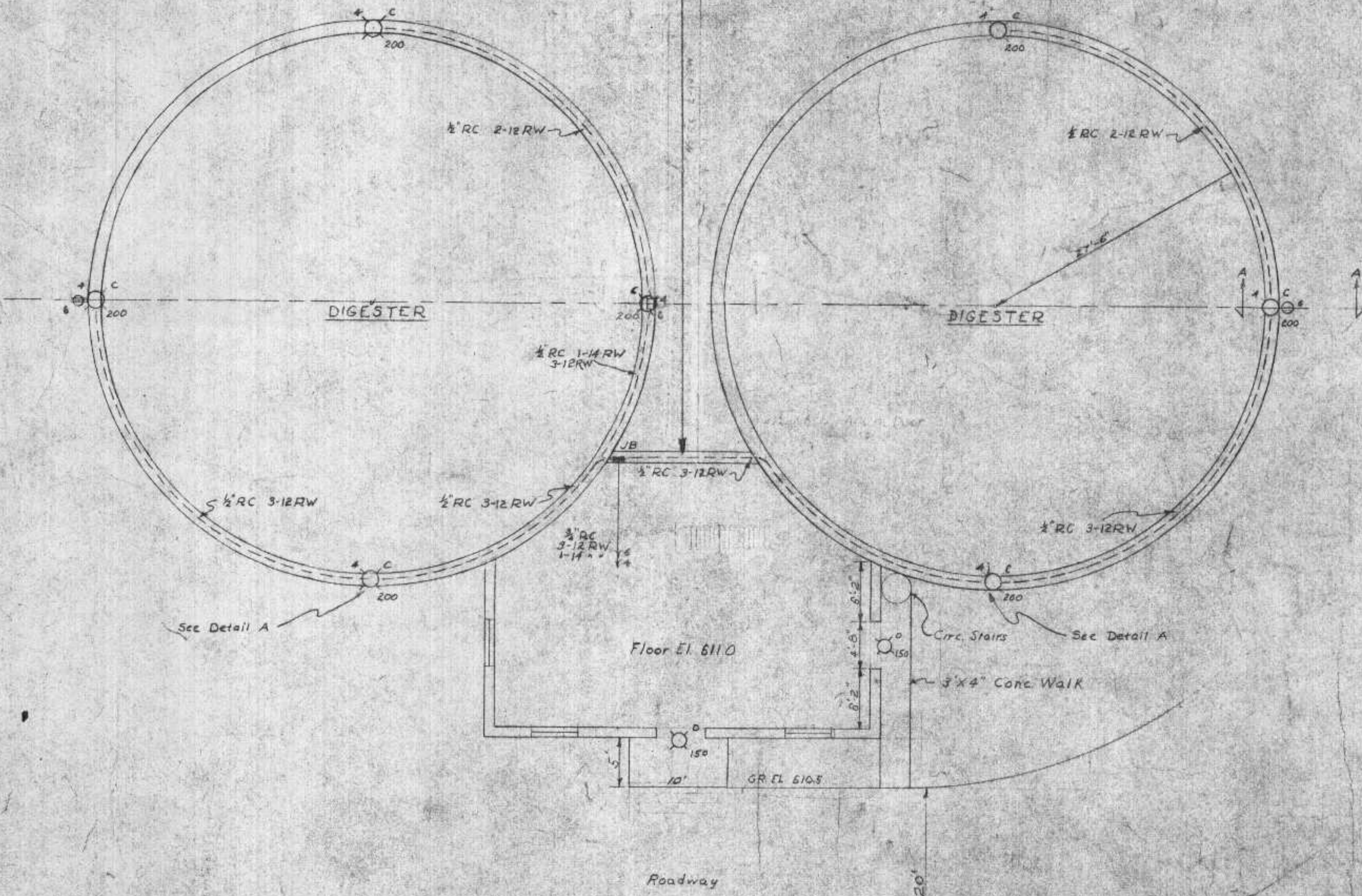


DETAIL A



NOTE WINDOW SILLS TO BE PRECAST CONCRETE OR CUT STONE

NOTE - ALL ELECTRICAL EQUIPMENT IN DIGESTER CONTROL BLDG. EXCEPT HEATER ROOM SHALL COMPLY WITH THE REQUIREMENTS OF THE N.E.C. FOR HAZARDOUS LOCATIONS, CLASS I, GROUP D



SECTION A-A

EXAMINED AND REPORTED UPON BY THE SECTION ON ENVIRONMENTAL SANITATION
 O. J. MUEGGE
 State Sanitary Engineer
 APPROVED by the State Board of Health, as required by various statutes, subject to conditions set forth in the letter of approval.
 JUL 14 1956
 CARL N. NEUPERT, M. D.
 State Health Officer
 Verification: J. J. [Signature]

LEGEND

- ⊙ C Goodrich Direct Standlite No 57 200 Watt lamp
- ⊙ D Goodrich Cylindrical Entrance Lantern No 929 150 Watts
- ⊕ Crouse-Hinds Plug Receptacle Housing with Recept. No DS334 15 Amp 2 Wire 3 Pole mounted on FS Series Conduit
- ⊕ TEB Thin wall cast iron Flanged Junction Box with cover & gasket GE Cat No 10753 (3 1/2 x 3 1/2 x 1 1/2)
- ⊕ B Crouse-Hinds Bracket-Type Explosion Proof Fixture Cat No EVB X 110 100 Watt
- ⊕ Crouse-Hinds Single Pole, Type EPS, 200, 110V Cat No EPS 1129 For Surface Mounting Seal on Incoming and Outgoing Sides
- ⊕ Crouse-Hinds Explosion Proof Outlet Receptacle Cat No CPS 15B-101 For Surface Mounting

REVISIONS		
DATE	DESCRIPTION	BY
7/15/56	Changed grade etc.	JL
7/15/56	Changed some lettering	JL
7/15/56	Added notes	JL

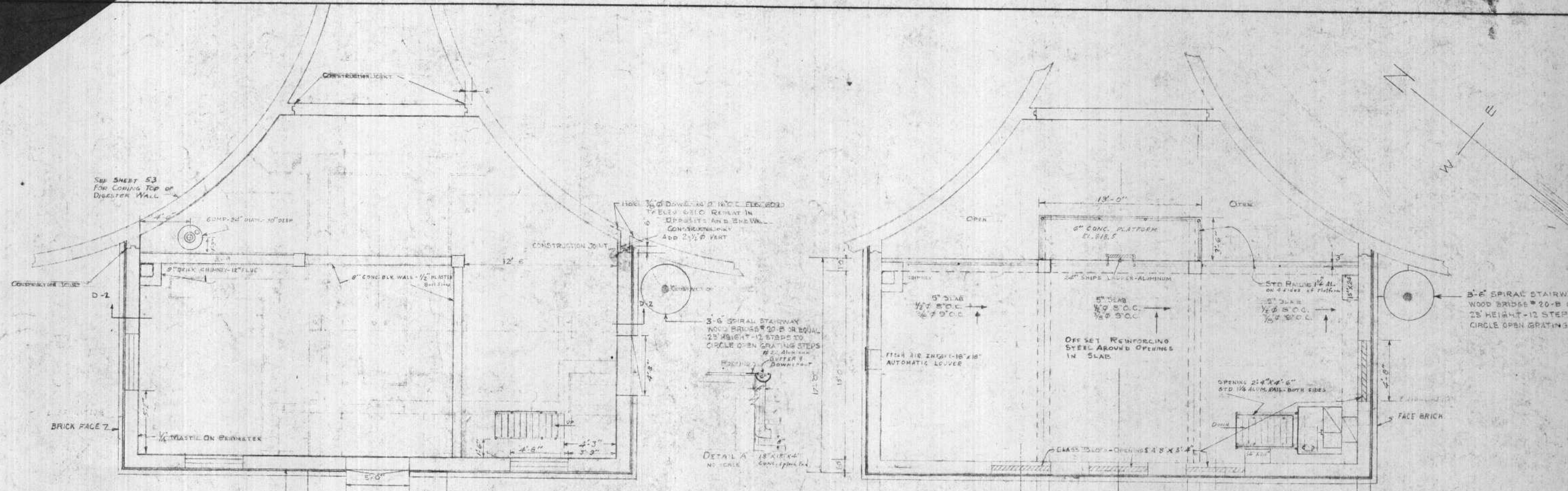
DIGESTER DETAILS AND PLAN

SUPERIOR, WIS.

HITCHCOCK & ESTABROOK, INC.
 CONSULTING ENGINEERS
 231 NEXTON BLDG.
 MINNEAPOLIS 15, MINN.

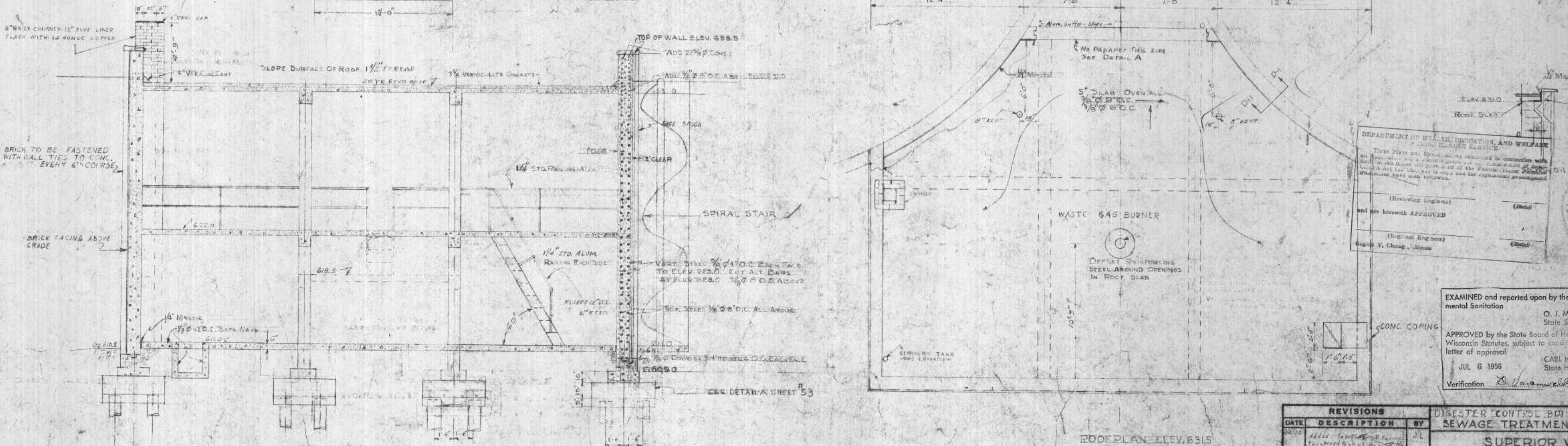
DR. TR. [Signature]
 CHKD. APPD. [Signature]

JOB NO. 400
 SHEET NO. 54 OF 77
 DATE 7/15/56 SCALE 3/8" = 1'-0"



FLOOR PLAN ELEV. 610.0

FLOOR PLAN ELEV. 622.0



ROOF PLAN ELEV. 631.5

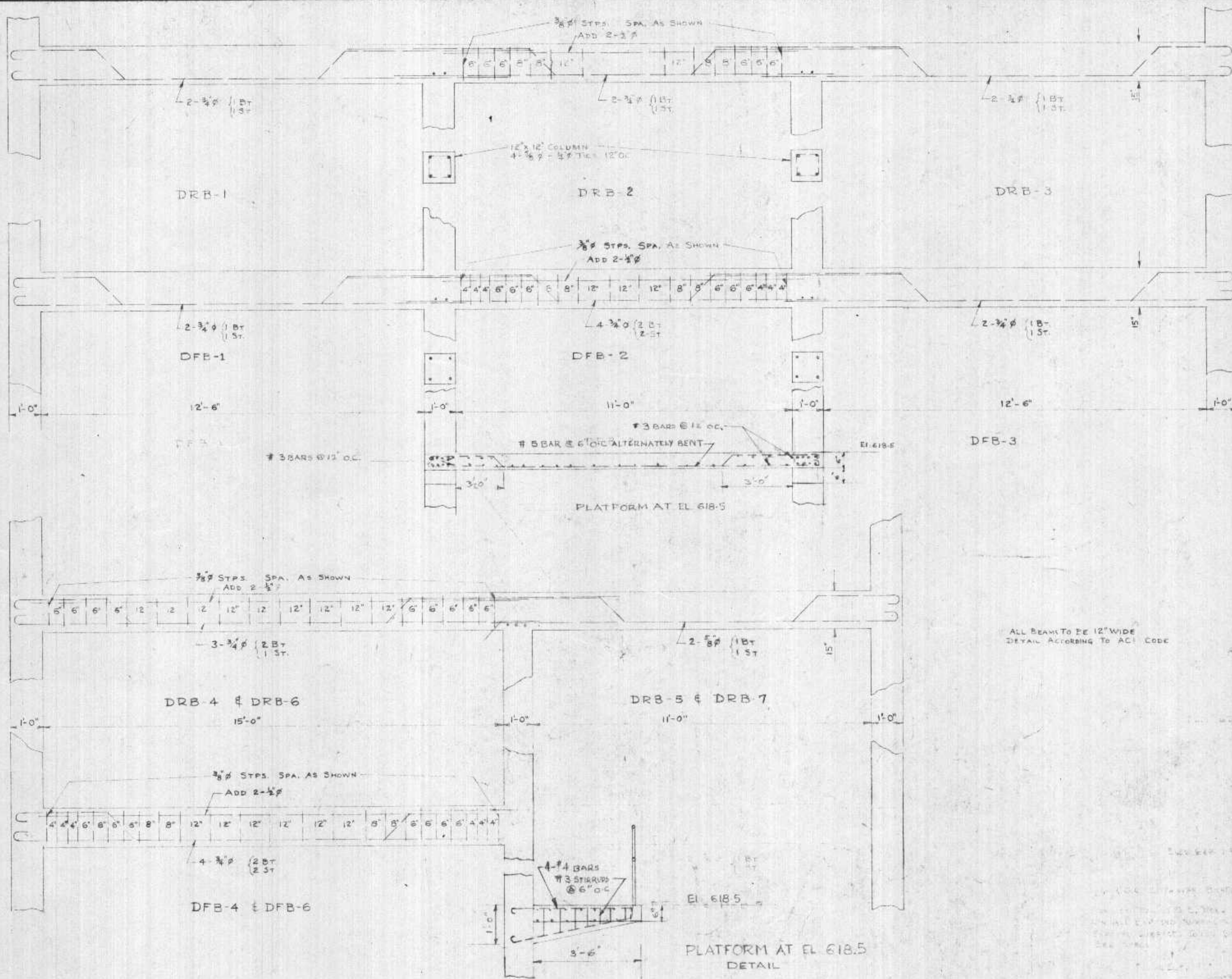
SECTION D-2

DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE
 State Sanitary Engineer
 These Plans are approved as submitted in connection with
 the proposed construction of the Disaster Control Building
 and are hereby APPROVED
 (Signature) _____
 (Signature) _____
 (Signature) _____

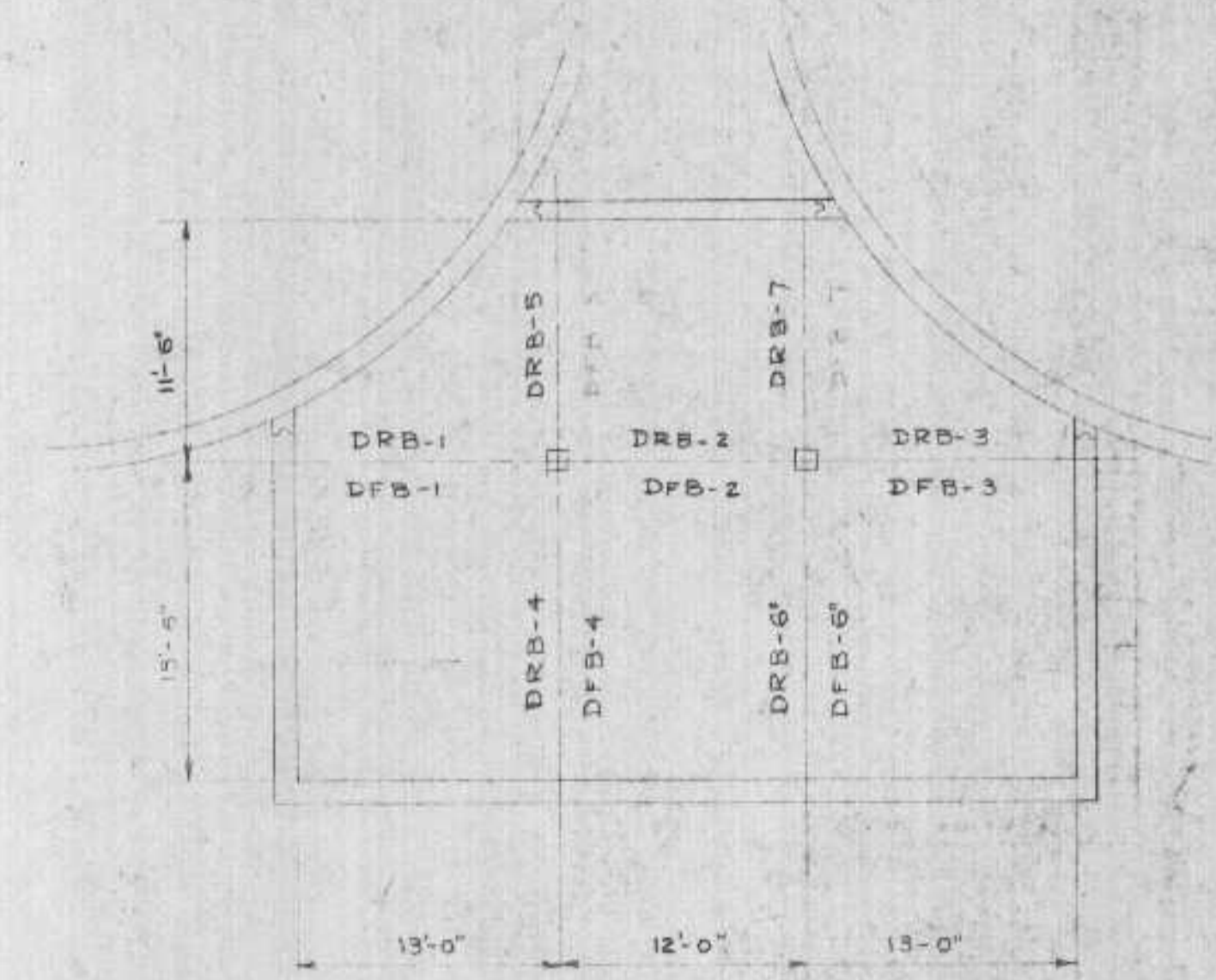
EXAMINED and reported upon by the Section on Environmental Sanitation
 O. J. MUEGGE
 State Sanitary Engineer
 APPROVED by the State Board of Health, as required by
 Wisconsin Statutes, subject to conditions set forth in the
 letter of approval
 JUL 6 1956
 Verification _____
 CARL N. NEUPERT, M. D.
 State Health Officer

REVISIONS		
DATE	DESCRIPTION	BY
6/25/56	Added...	JL
7/1/56	Added...	E.W.
7/1/56	Added...	E.W.
7/1/56	Added...	J.D.
7/1/56	Added...	J.D.

DISASTER CONTROL BUILDING - PLAN		SUPERIOR, WIS.	
HITCHCOCK & ESTABROOK, INC.			
CONSULTING ENGINEERS			
431 N. GUYTON BLDG.			
MINNEAPOLIS 15, MINN.			
DR.	TR.	JOB NO.	DATE
CHKD.	APPD.	56-171	1/26/56



BEAM DETAILS
SCALE 1/2"=1'-0"



PLAN VIEW OF DIGESTER BLDG.
SCALE 1/8"=1'-0"

DRB-1 DIGESTER ROOF BEAM-1 AT ELEV. 631.0
DFB-1 FLOOR BEAM-1 AT ELEV. 620.0

ALL BEAMS TO BE 12" WIDE
DETAIL ACCORDING TO ACI CODE

DEPARTMENT OF HEALTH, EDUCATION AND WELFARE
RURAL HEALTH SERVICE

These Plans and Specifications submitted in connection with an Application for a License to practice as a consultant in the State of Wisconsin, subject to the approval of the Board of Health, and Control Act (22 USC, 214a-2) and the regulations promulgated thereunder have been approved.

(Resolving Engineer) _____ (Date) _____
and are herewith APPROVED
(Regional Engineer) _____ (Date) _____
Region V, Chicago, Illinois

EXAMINED and reported upon by the Section on Environmental Sanitation

O. J. MUEGGE
State Sanitary Engineer

APPROVED by the State Board of Health, as required by Wisconsin Statutes, subject to conditions set forth in the letter of approval

JUL 6 1956

Verification *[Signature]*

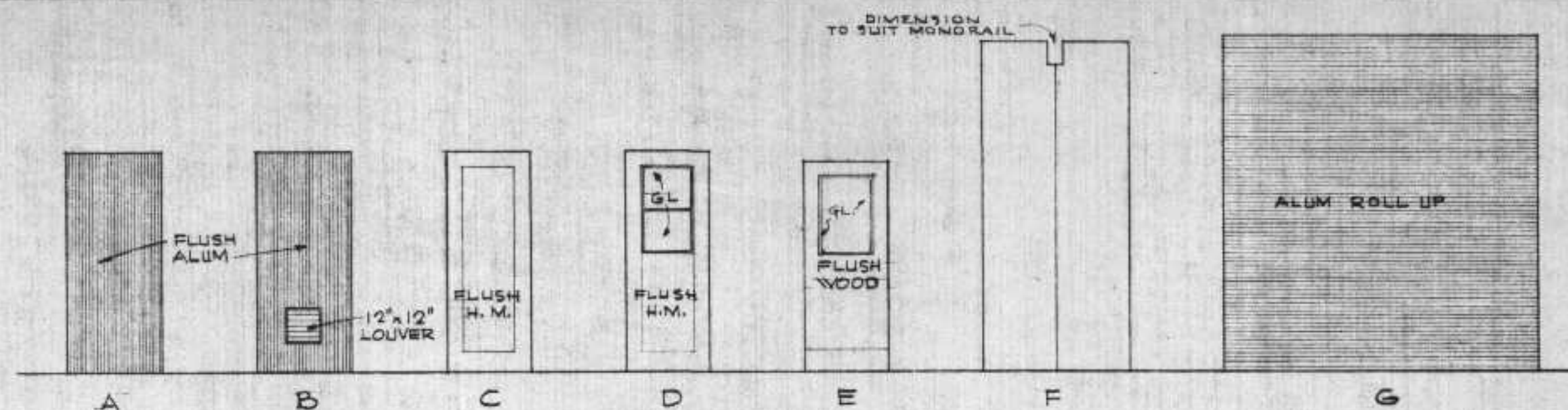
CARL N. NEUPERT, M. D.
State Health Officer



REVISIONS			DIGESTER BUILDING SEWAGE TREATMENT PLANT SUPERIOR, WIS.	
DATE	DESCRIPTION	BY	DR.	TR.
11/15	WASTE GAS PIPE ADDED	EVY	J.S.	J.S.
8/14	Add Platform details	J.D.	J.S.	J.S.

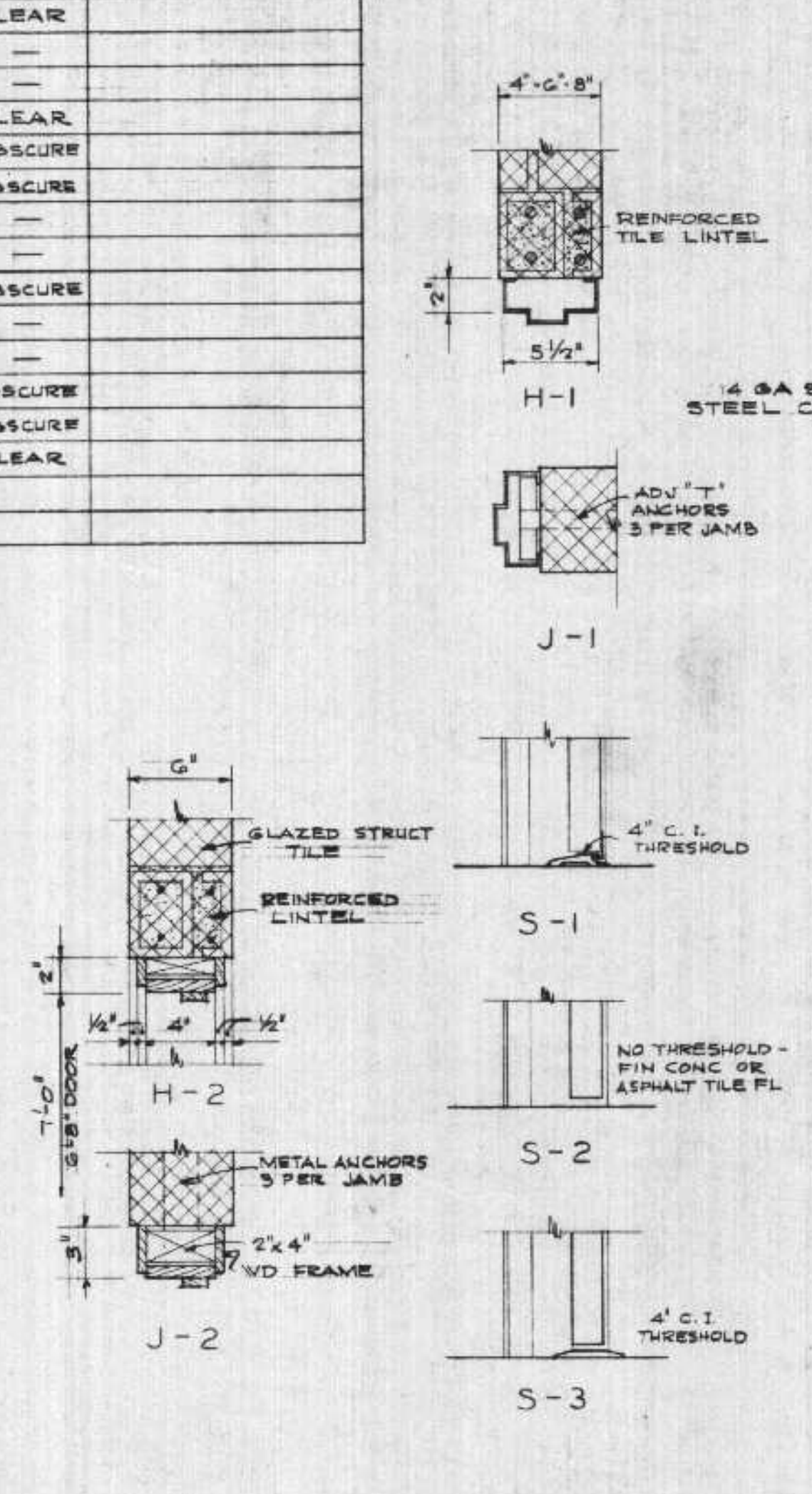
HITCHCOCK & ESTABROOK, INC. CONSULTING ENGINEERS 611 BENTON BLVD. MINNEAPOLIS 15, MINN.		JOB NO. 400
DATE: 12/55	SCALE: AS SHOWN	SHEET NO. 57 OF 71

DOOR SCHEDULE									
NO	SIZE	MATERIAL	TYPE	FRAME	HEAD	JAMB	SILL	GLASS	REMARKS
MAIN OPERATING BUILDING									
1	3'-0" x 7'-0" x 1 3/4"	FLUSH ALUM	A	ALUM	SPECIAL-SEE DTLS-SH 27				
2	10'-0" x 10'-8"	ALUM	G	ALUM	SPECIAL-SEE DTLS-SH 31				
3	2'-8" x 7'-0" x 1 3/4"	FLUSH ALUM	A	ALUM	SPECIAL-SEE DTLS-SH 27				
4	3'-0" x 7'-0" x 1 3/4"	FLUSH ALUM	A	ALUM	SPECIAL-SEE DTLS-SH 27				
5	3'-0" x 7'-0" x 1 3/4"	FLUSH ALUM	A	ALUM	SPECIAL-SEE DTLS-SH 27				
6	10'-0" x 10'-8"	ALUM	G	ALUM	SPECIAL-SEE DTLS-SH 31				
7	2'-8" x 6'-8" x 1 3/4"	WOOD S.C.	E	WOOD	H-2	J-2	S-2	CLEAR	
8	2'-8" x 7'-0" x 1 3/4"	FLUSH H.M.	D	PRESS STL	H-1	J-1	S-3	CLEAR	
9	2'-8" x 7'-0" x 1 3/4"	FLUSH H.M.	D	PRESS STL	H-1	J-1	S-1	CLEAR	
10	2'-2-4" x 10'-6" x 1 3/4"	WOOD S.C.	F	STRUCT STL	SPECIAL-SEE DTLS-THIS SH				
11	2'-2-4" x 10'-6" x 1 3/4"	WOOD S.C.	F	STRUCT STL	SPECIAL-SEE DTLS-THIS SH				
12	2'-8" x 7'-0" x 1 3/4"	FLUSH H.M.	D	PRESS STL	H-1	J-1	S-3	CLEAR	
13	2'-8" x 7'-0" x 1 3/4"	FLUSH H.M.	D	PRESS STL	H-1	J-1	S-3	OBSCURE	
14	2'-8" x 7'-0" x 1 3/4"	FLUSH H.M.	D	PRESS STL	H-1	J-1	S-2	OBSCURE	
15	2'-8" x 7'-0" x 1 3/4"	FLUSH H.M.	C	PRESS STL	H-1	J-1	S-2		
16	2'-8" x 7'-0" x 1 3/4"	FLUSH H.M.	C	PRESS STL	H-1	J-1	S-2		
17	2'-8" x 7'-0" x 1 3/4"	FLUSH H.M.	D	PRESS STL	H-1	J-1	S-2	OBSCURE	
18	2'-8" x 7'-0" x 1 3/4"	FLUSH H.M.	C	PRESS STL	H-1	J-1	S-3		
19	2'-8" x 7'-0" x 1 3/4"	FLUSH H.M.	C	PRESS STL	H-1	J-1	S-3		
20	2'-8" x 7'-0" x 1 3/4"	FLUSH H.M.	D	PRESS STL	H-1	J-1	S-3	OBSCURE	
21	2'-8" x 7'-0" x 1 3/4"	FLUSH H.M.	D	PRESS STL	H-1	J-1	S-2	OBSCURE	
22	2'-8" x 7'-0" x 1 3/4"	FLUSH H.M.	D	PRESS STL	H-1	J-1	S-2	CLEAR	

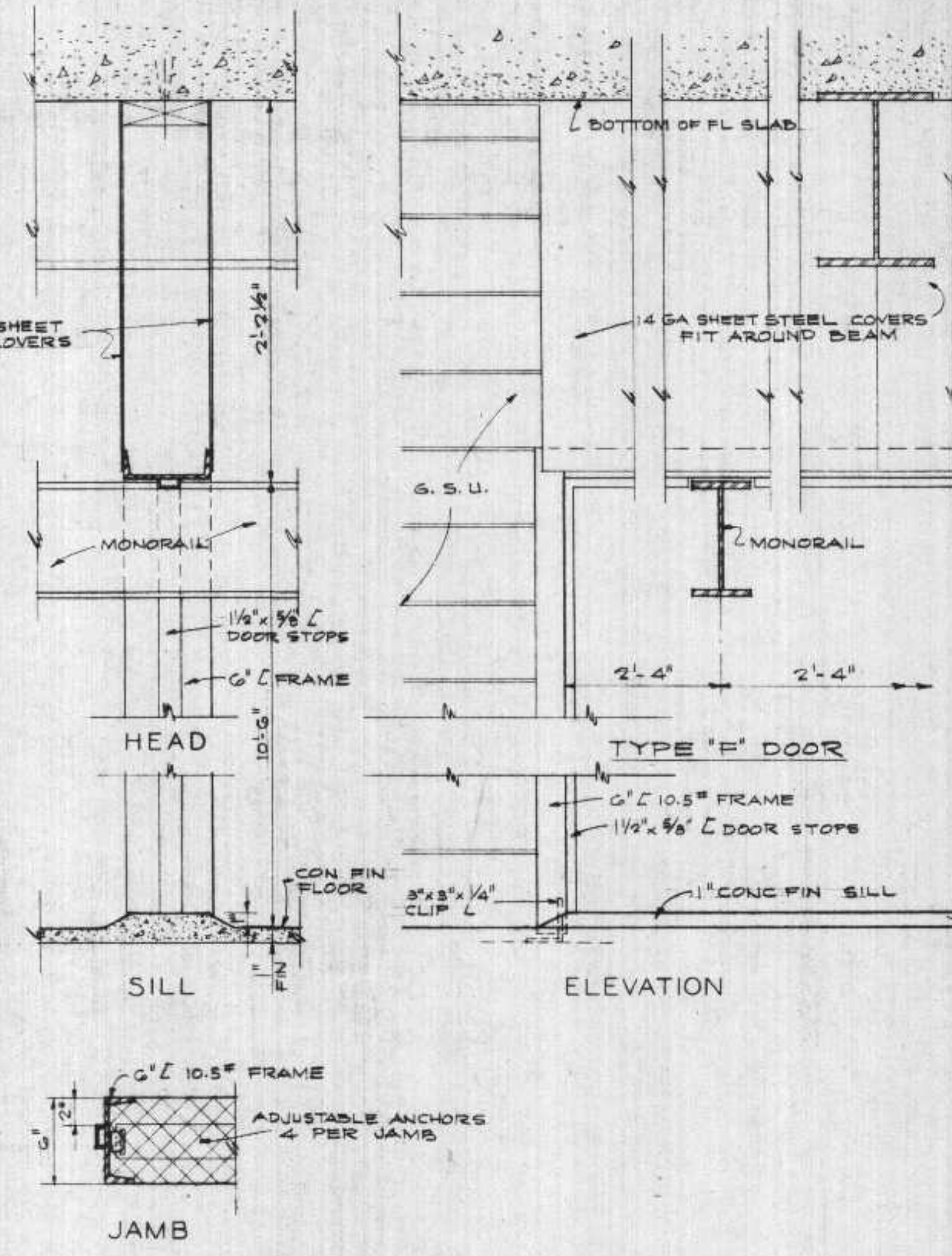


DOOR TYPES
SCALE: 1/4" = 1'-0"

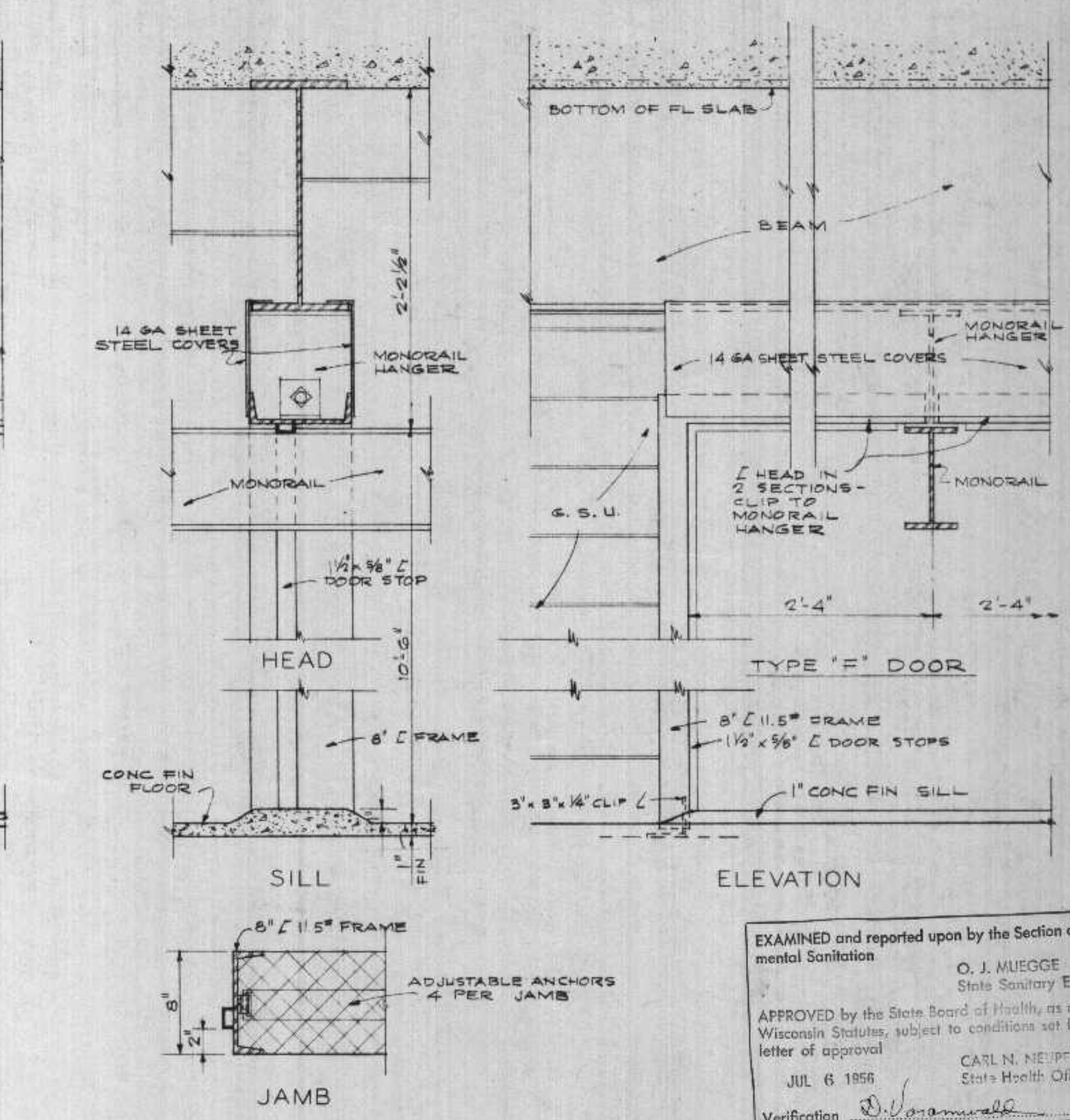
INTERIOR FINISH SCHEDULE				
AREA	FLOOR	WALLS	CEILING	REMARKS
MAIN OPERATING BUILDING				
ELECT CONTROL RM	CONC. FIN.	G.S.U. & STEEL FACED PANELS	EXPOSED	
CHLORINE SCALE RM	CONC. FIN.	G.S.U.	EXPOSED	
CHLORINE RM	CONC. FIN.	G.S.U.	EXPOSED	
PUMP RM	CONC. FIN.	G.S.U. & STEEL FACED PANELS	EXPOSED	
SHOP & STORAGE RM	CONC. FIN.	G.S.U. & STEEL FACED PANELS	EXPOSED	
TRUCKWAY	CONC. FIN.	G.S.U. & STEEL FACED PANELS	EXPOSED	
ENT. CORRIDOR	ASPHALT TILE	G.S.U.	PLASTER	
STAIR NO 1	C.I. TREADS	G.S.U.	PLASTER	
STAIR NO 2	C.I. TREADS	G.S.U. & STEEL FACED PANELS	EXPOSED	
OFFICE	ASPHALT TILE	G.S.U.	PLASTER	
LABORATORY	ASPHALT TILE	G.S.U.	PLASTER	
OFFICE CLOSET	ASPHALT TILE	G.S.U.	PLASTER	
LAB CLOSET	ASPHALT TILE	G.S.U.	PLASTER	
STORAGE RM	CONC. FIN.	G.S.U. & STEEL FACED PANELS	EXPOSED	
JANITOR'S RM	CONC. FIN.	G.S.U.	PLASTER	
TOILET RM	HUBBELITE	G.S.U.	PLASTER	PROVIDE 3" FLOOR FILL
LOCKER & TOILET RM	HUBBELITE	G.S.U.	PLASTER	PROVIDE 3" FLOOR FILL
LUNCH RM	ASPHALT TILE	G.S.U.	PLASTER	
CHEMICAL MIXING & DEWATERING RM	CONC. FIN.	G.S.U. & STEEL FACED PANELS	EXPOSED	
CORRIDOR	ASPHALT TILE	G.S.U.	PLASTER	
PIPE SPACE	FIN. CONC. FILL	CONCRETE	EXPOSED	STEEL TROWEL FL. FIN.



FRAME DETAILS
SCALE: 1/2" = 1'-0"

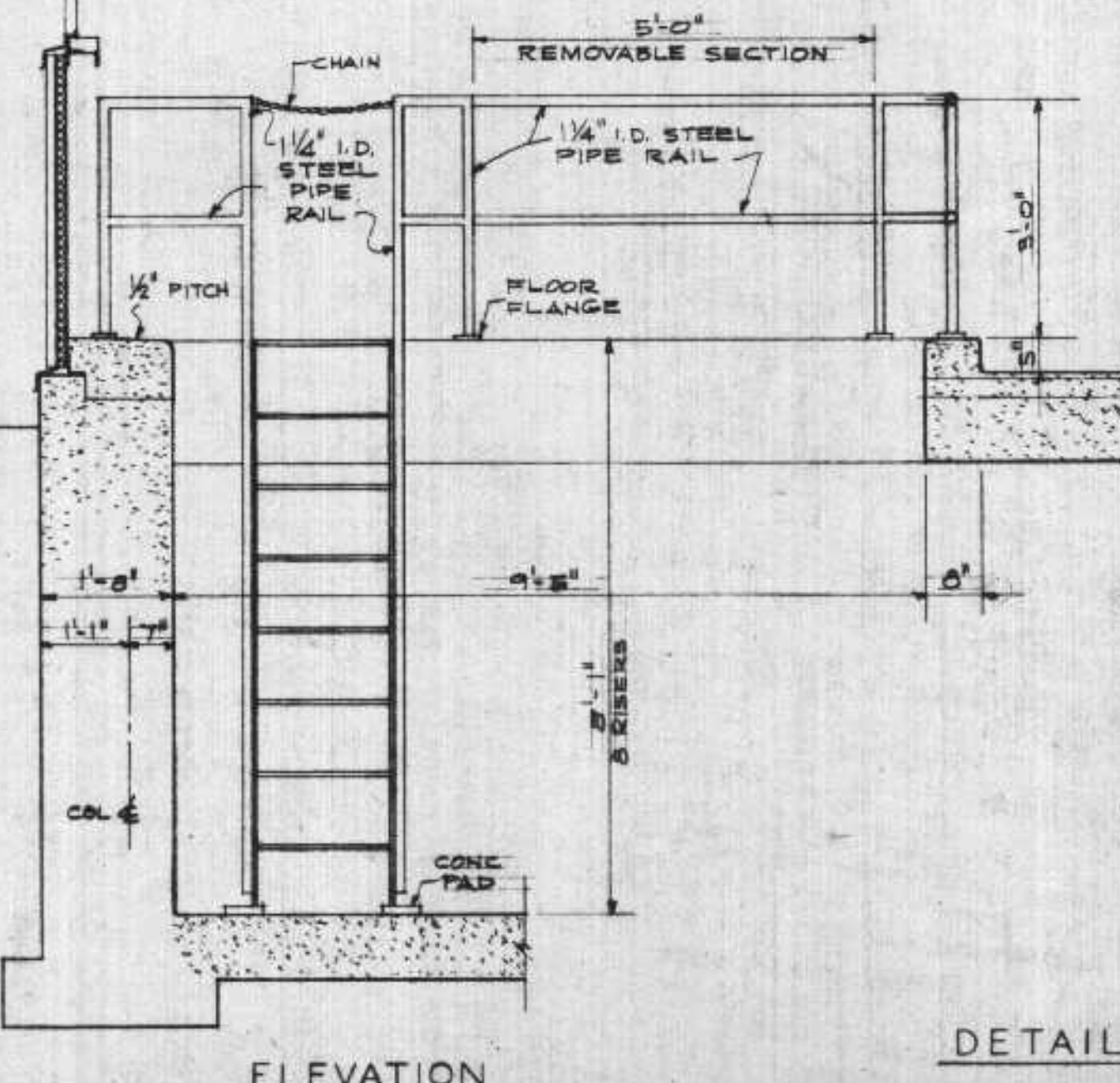


DETAILS - DOOR NO 10
SCALE: 1/2" = 1'-0"

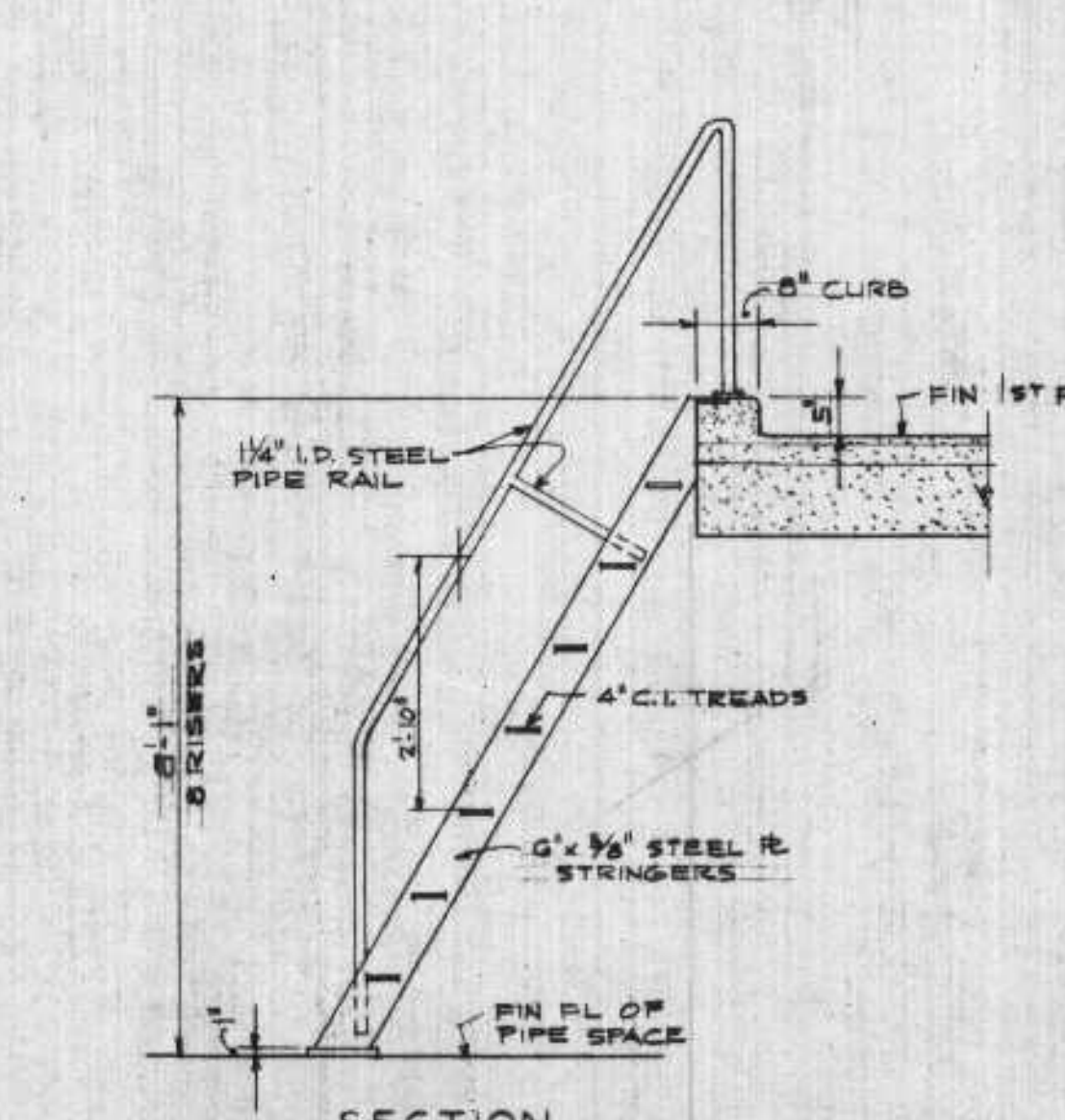


DETAILS - DOOR NO 11
SCALE: 1/2" = 1'-0"

NOTES:
ALL CEILING ARE TO BE FINISH PAINTED. CEILING INCLUDE PLASTER, EXPOSED UNDER-SIDES OF CONCRETE SLABS OR PRECAST ROOF SLABS TOGETHER WITH ALL EXPOSED SUPPORTING BEAMS, AND THAT PORTION OF EACH COLUMN ABOVE THE BOTTOM OF THE DEEPEST MEMBER FRAMING INTO IT. SHEET STEEL VENTRIAN BLIND SOCKETS AND ANY EXPOSED CONDUITS OR OTHER FERROUS METAL APPURTENANT TO THE CEILING MASONRY OR STEEL IS TO BE PAINTED. ALL EXPOSED WALL SURFACES EXCEPT GLAZED STRUCTURAL TILE AND ALUMINUM PARTS ARE TO BE FINISH PAINTED. WALL SURFACES INCLUDE PLASTER, COLUMNS UP TO THE LEVEL OF THE DEEPEST FRAMING MEMBER, EXPOSED INTERIOR FACE OF INSULATED METAL PANELS AND ALL SUPPORTING WALL STEEL SHEET STEEL TRIM, GRILLES, WOOD & STEEL DOORS AND FRAMES, EXPOSED STEEL PARTS OF ROLL-UP DOORS, EXPOSED PARTS OF LODGE LINTELS, AND MASONRY OPENING FRAMING, STEEL LADDER, AND ALL OTHER FERROUS METAL APPURTENANT TO THE WALLS AND COLUMNS INCLUDING VERTICAL PIPING RUNS NEAR THE WALLS.

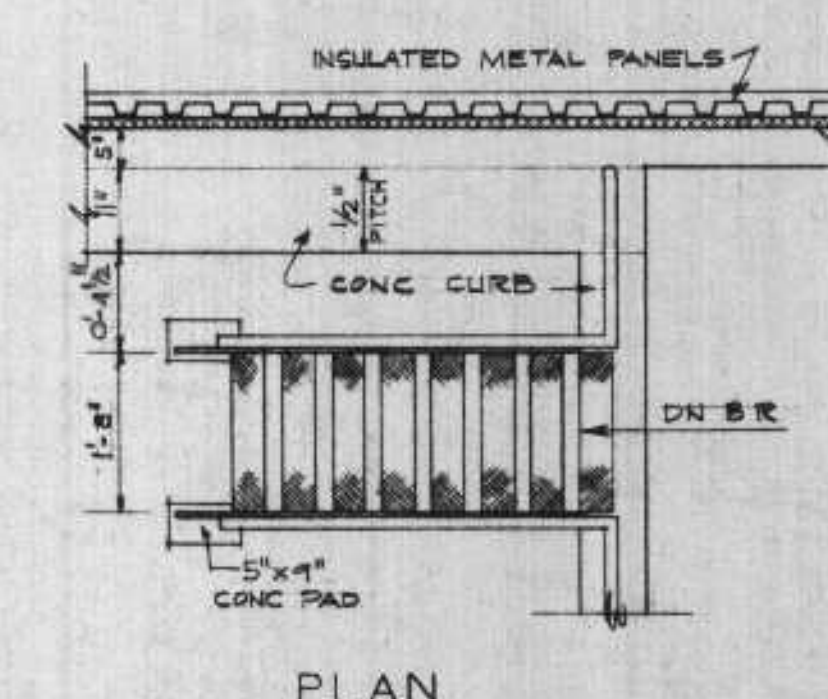


ELEVATION



SECTION

DETAILS OF SHIP'S LADDER
SCALE: 1/4" = 1'-0"



PLAN

REVISED - 6-12-56 AS FOLLOWS:
SHIPS LADDER TO BE SET 2 1/2" FROM WALL
FLOOR IN PIPE SPACE LOWERED 1 FT
FOR CONCRETE CURB AND WELFARE
OF MEN
These Plans are hereby approved in connection with an application for a license to operate the Sewage Treatment Plant at the City of Superior, Wisconsin, subject to conditions set forth in the letter of approval.
JUL 6 1956
Verification
O. J. MUEGGE
State Sanitary Engineer
CARL N. NEUBERT, M. D.
State Health Officer

SUPERIOR WIS.

SEWAGE TREATMENT PLANT
ARCHITECTURAL
SCHEDULES
AND
DOOR DETAILS

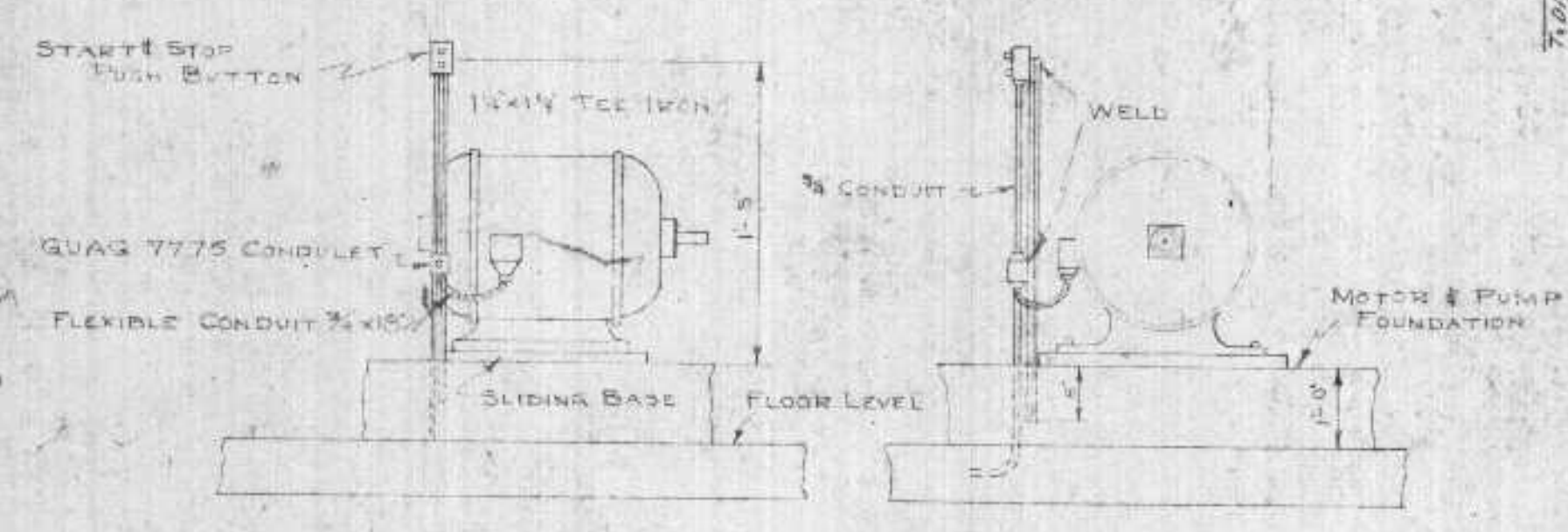
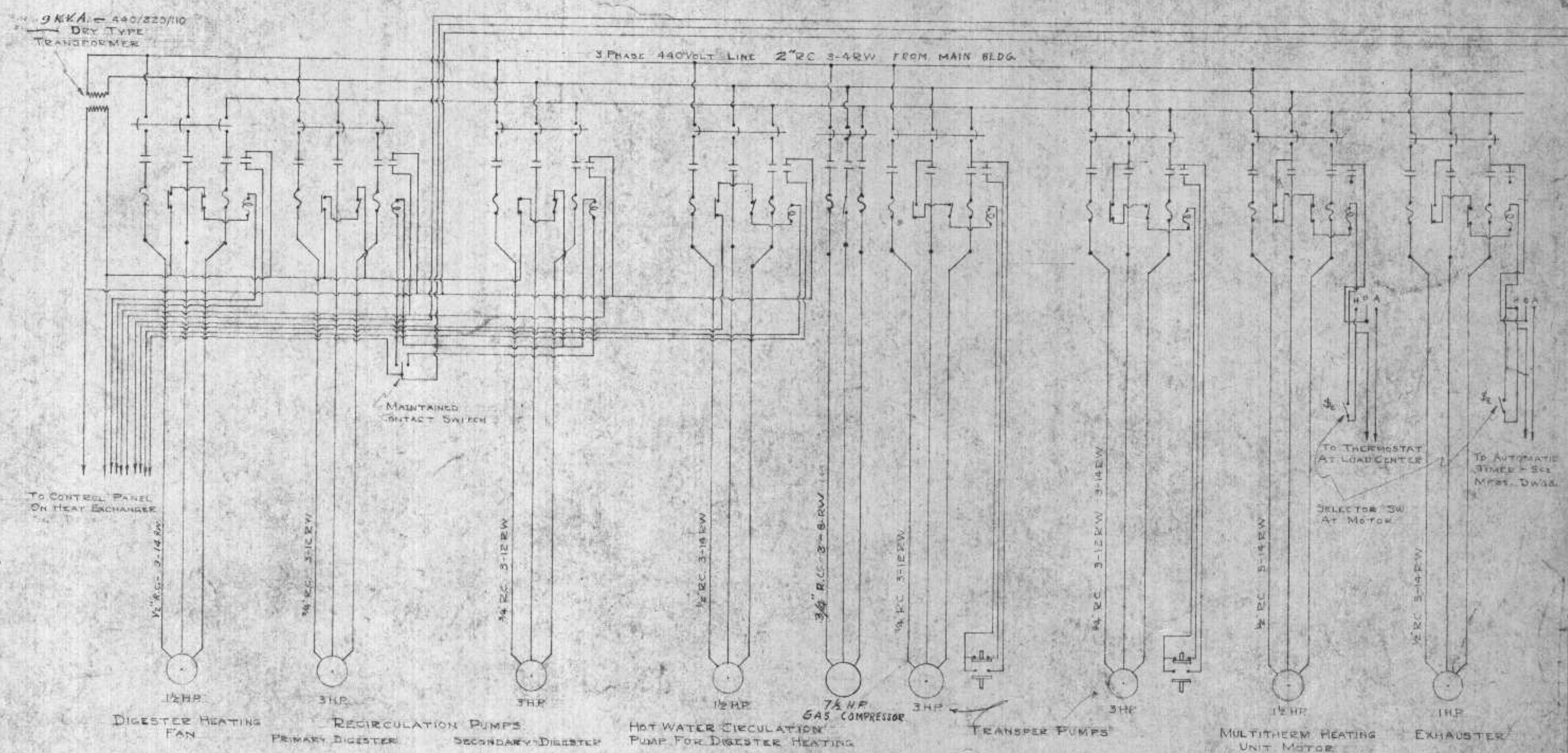
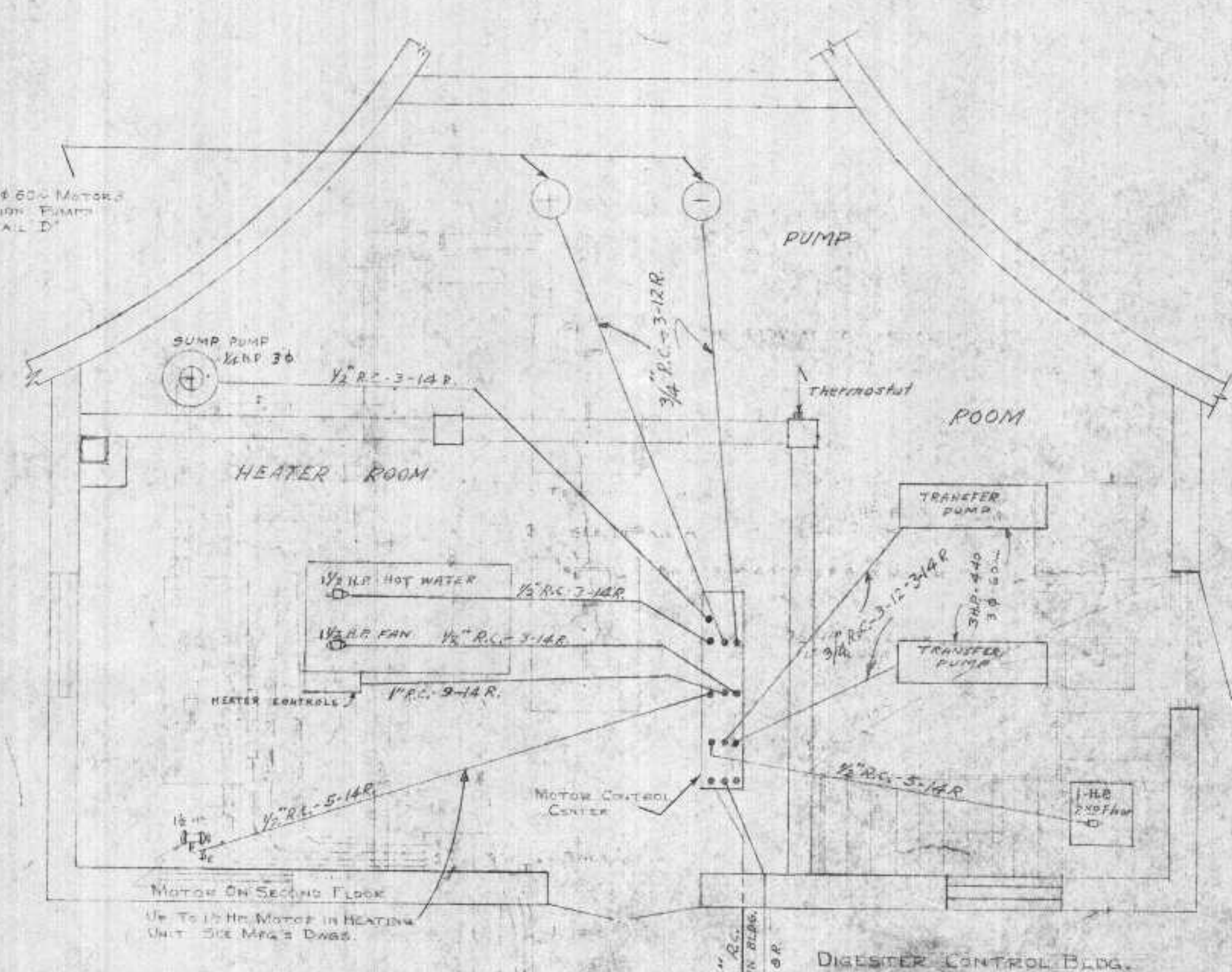
SCALE, AS SHOWN JAN. 1956

METCALF & EDDY
ENGINEERS
BOSTON, MASS.

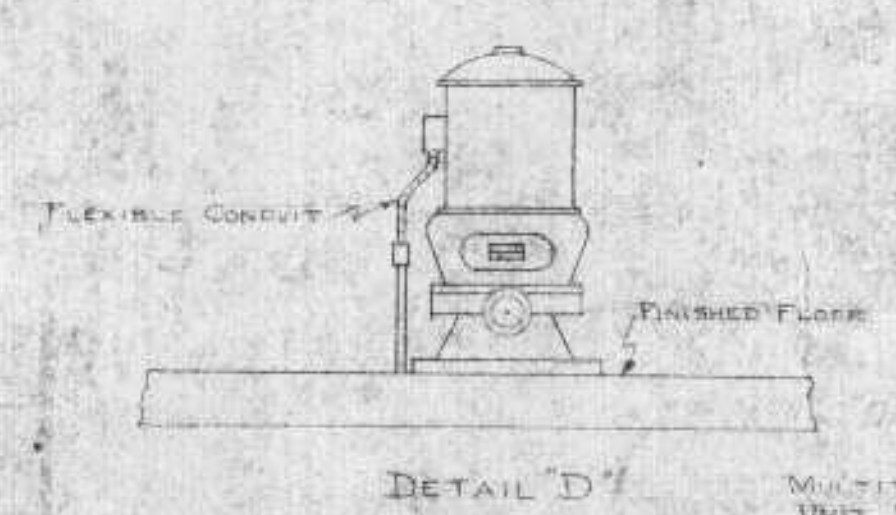
DRAWN BY NMD
TRACED BY NMD
CHECKED BY JOG

APPROVED
DATE

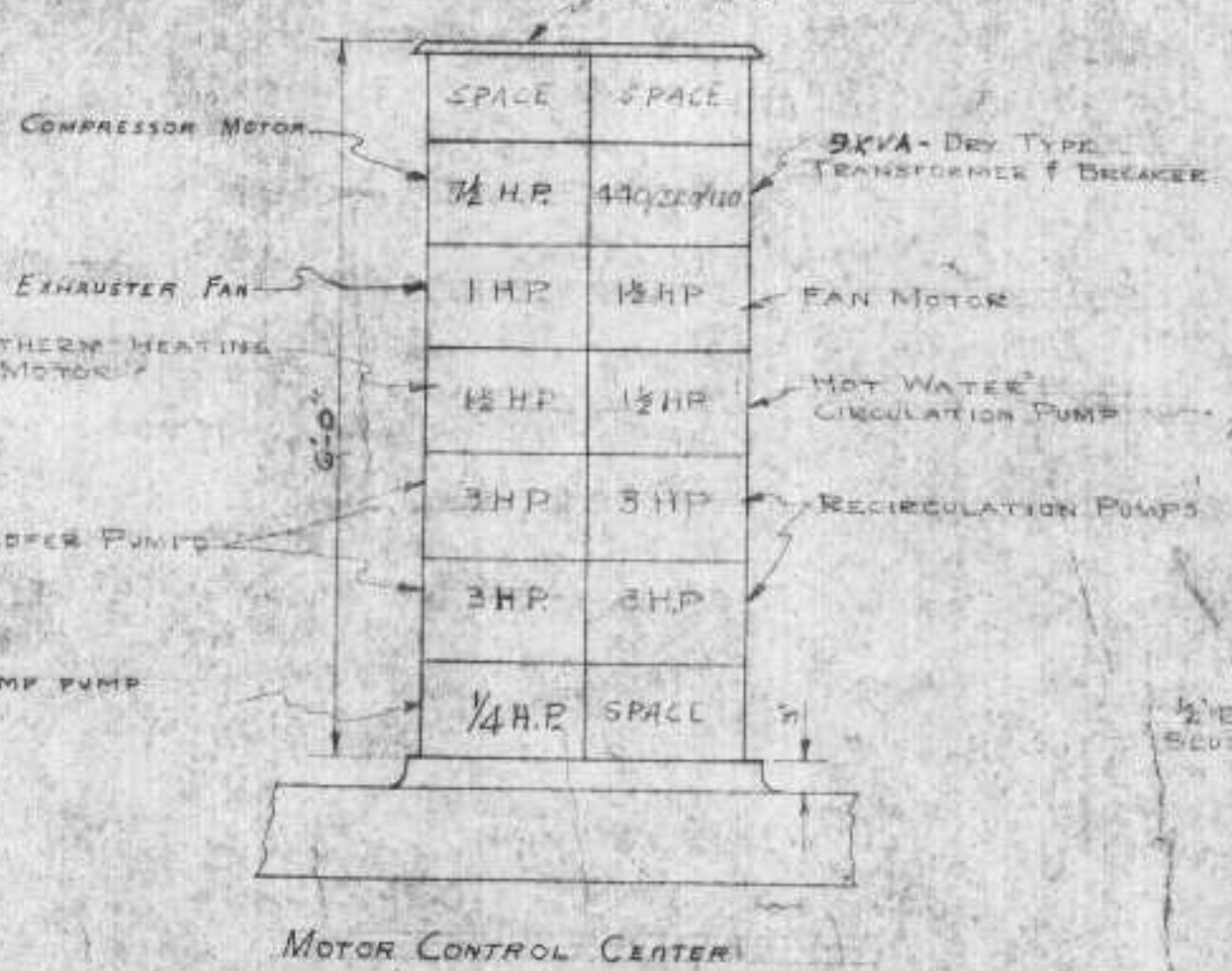
3HP 440V 3-Phase Motor
Recirculation Pump
See Detail D



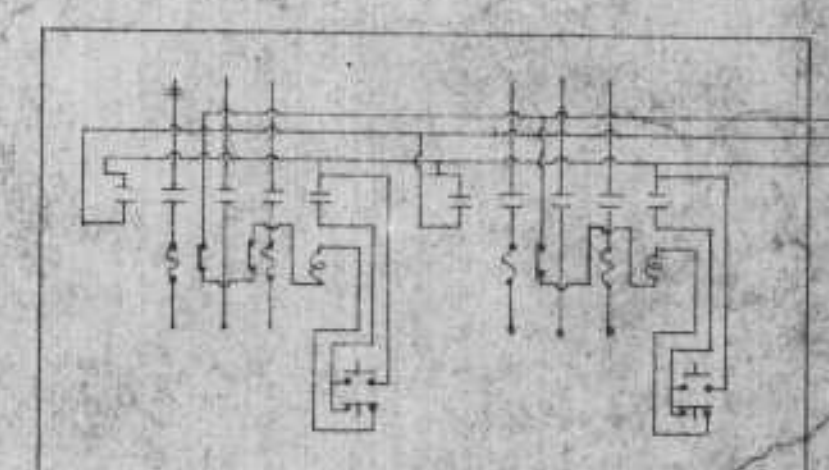
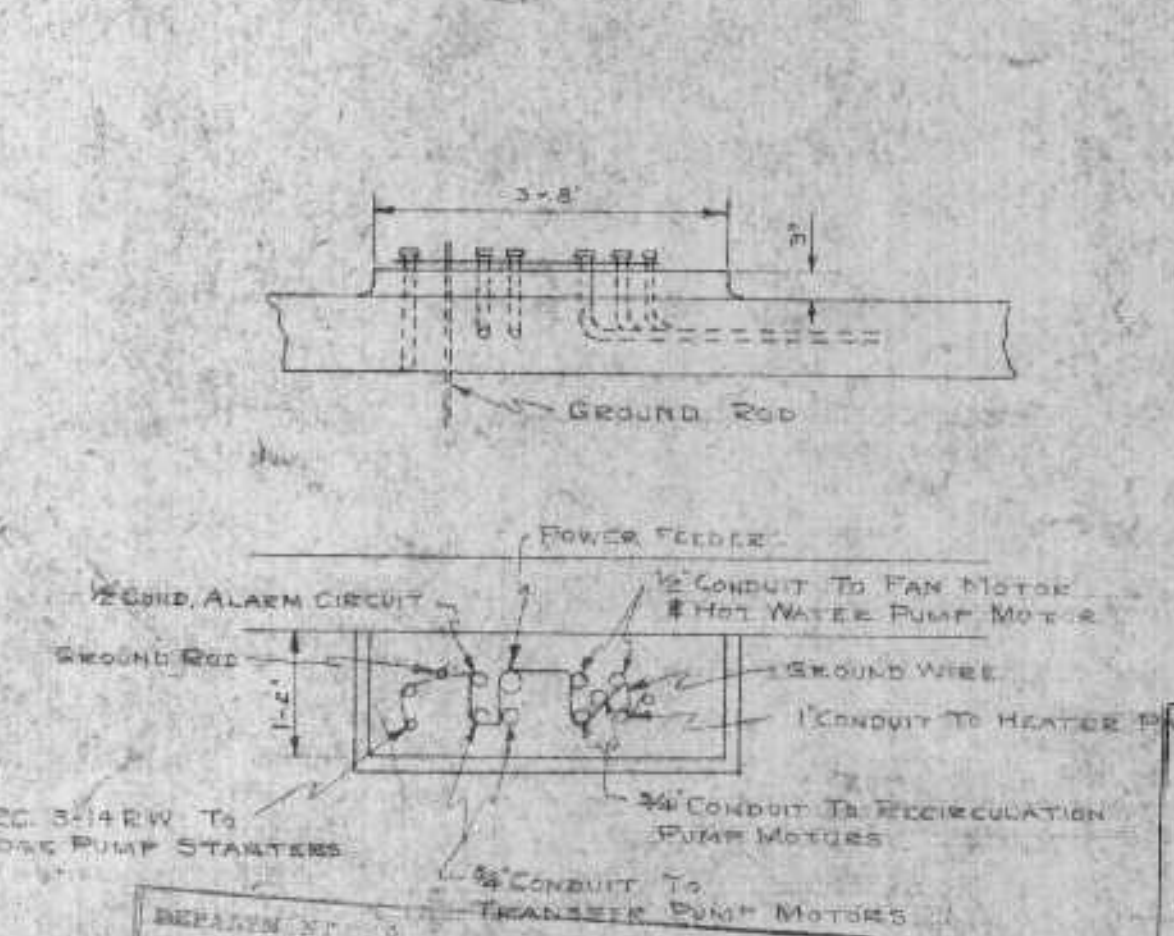
DETAIL A - TRANSFER PUMP MOTORS
NO SCALE



DETAIL D



MOTOR CONTROL CENTER



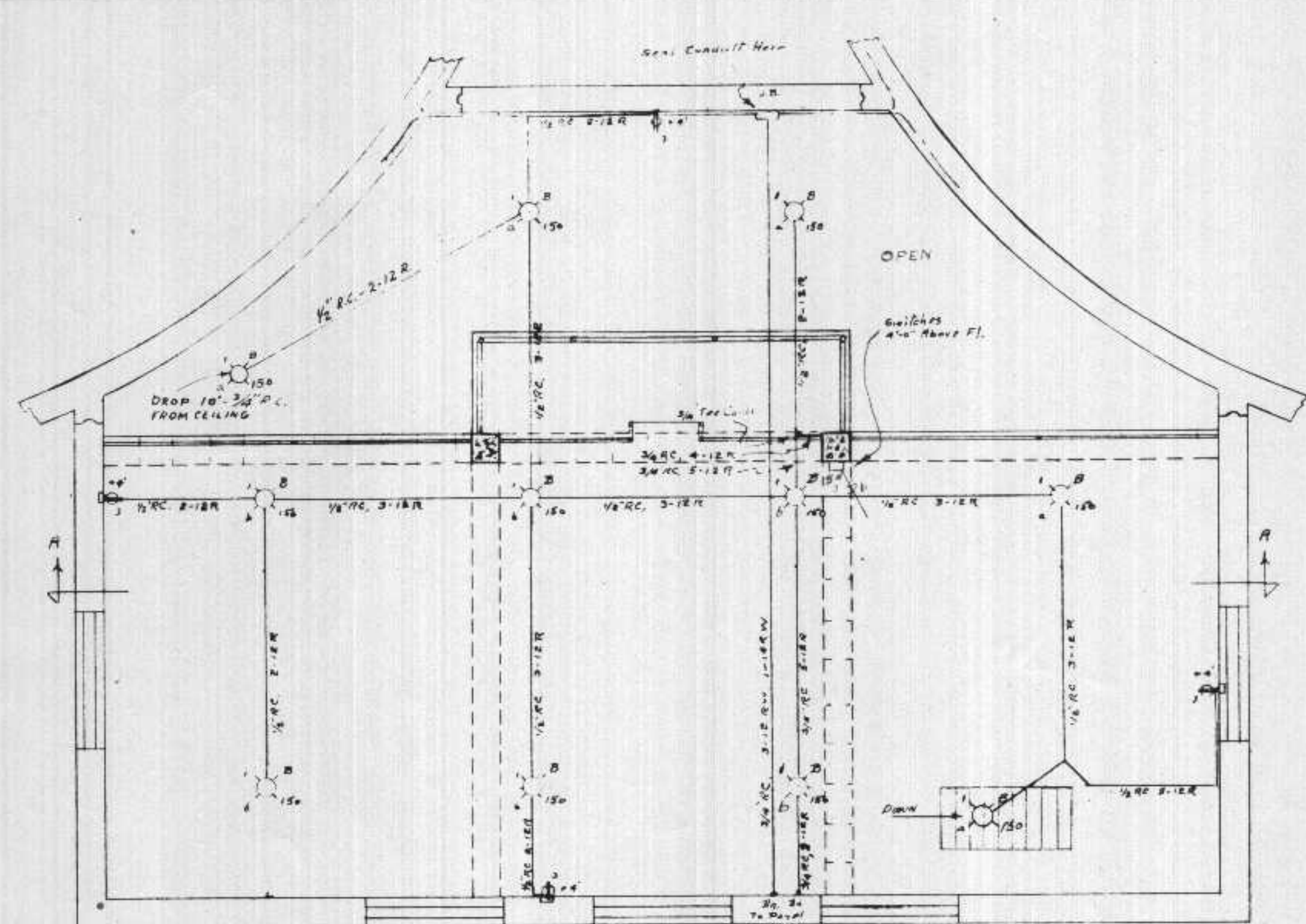
SLUDGE PUMP STARTERS
IN DIGESTER BUILDING

EXAMINED BY: [Signature]
DATE: [Date]
APPROVED BY: [Signature]
DATE: [Date]

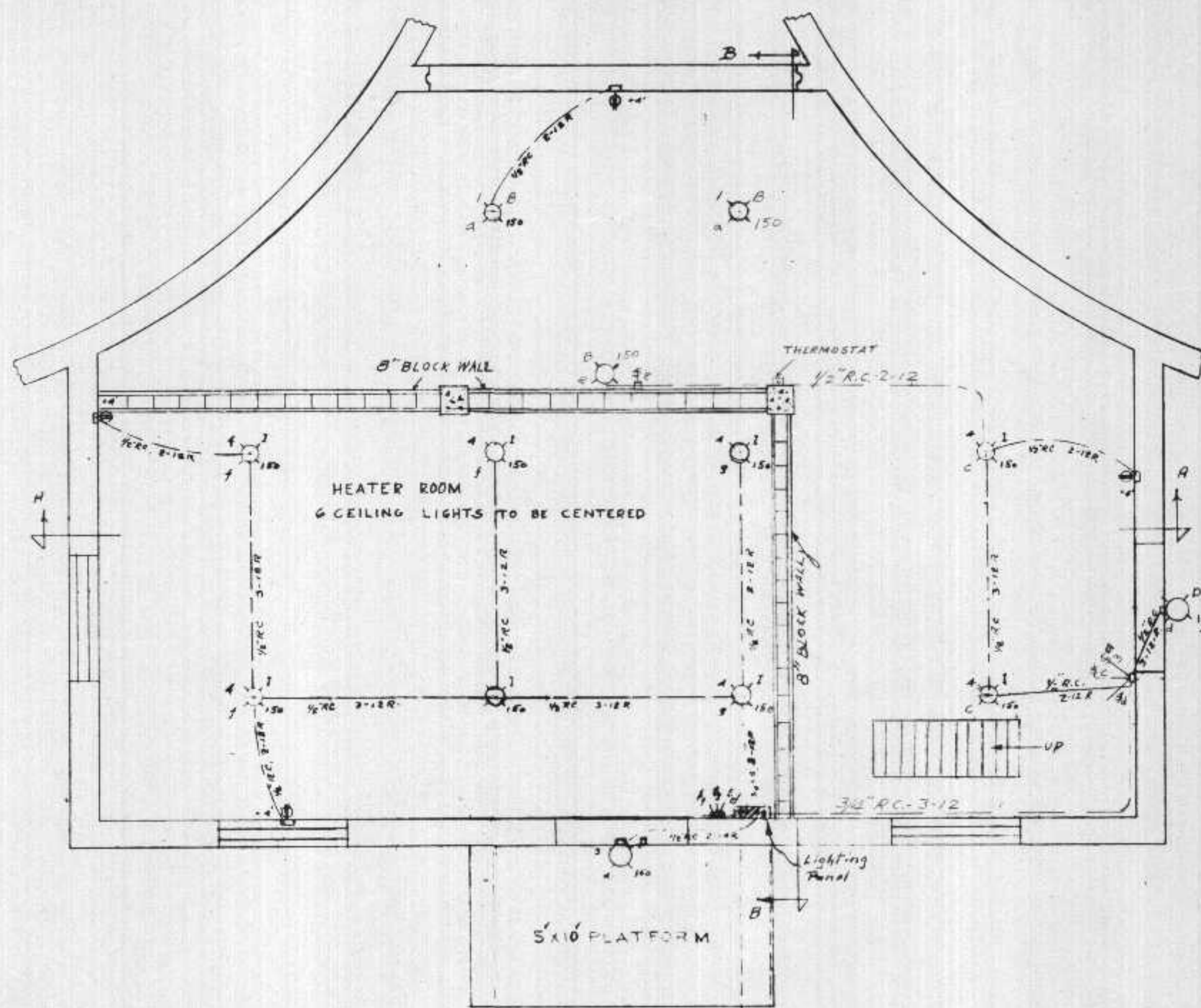
EXAMINED and reported upon by the Section on Environmental Sanitation
O. J. MUEGGE
State Sanitary Engineer
APPROVED by the State Board of Health, as required by Wisconsin Statutes, subject to conditions set forth in letter of approval
JUL 6 1956
CARL N. NEUPERT,
State Health Officer
Verification: [Signature]

REVISIONS		
DATE	DESCRIPTION	BY
7/6/56	REVISED	[Signature]
7/10/56	REVISED	[Signature]
7/17/56	REVISED	[Signature]

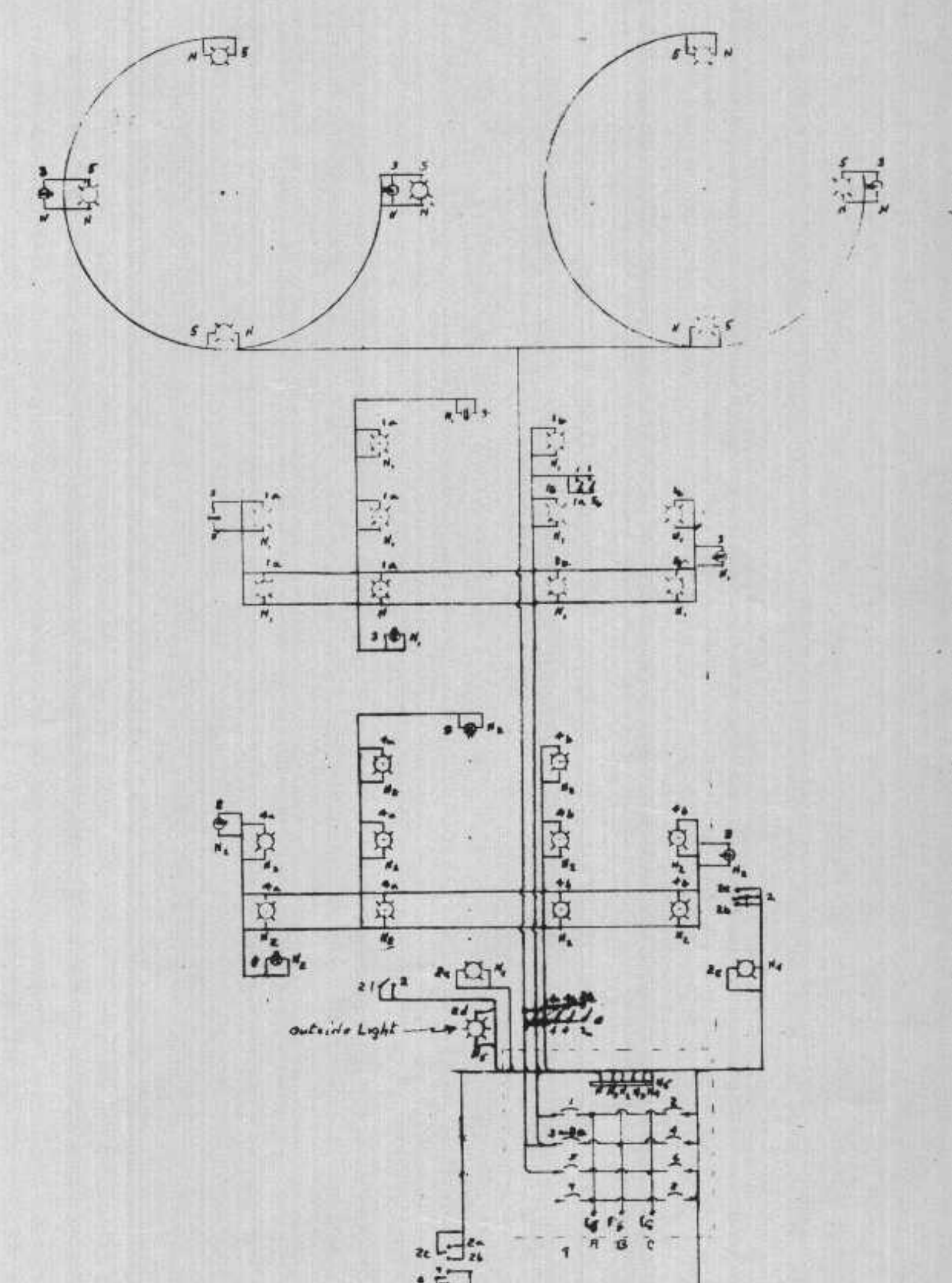
DR. TR.
HM. J.S.
CHKD. APPD.
DATE



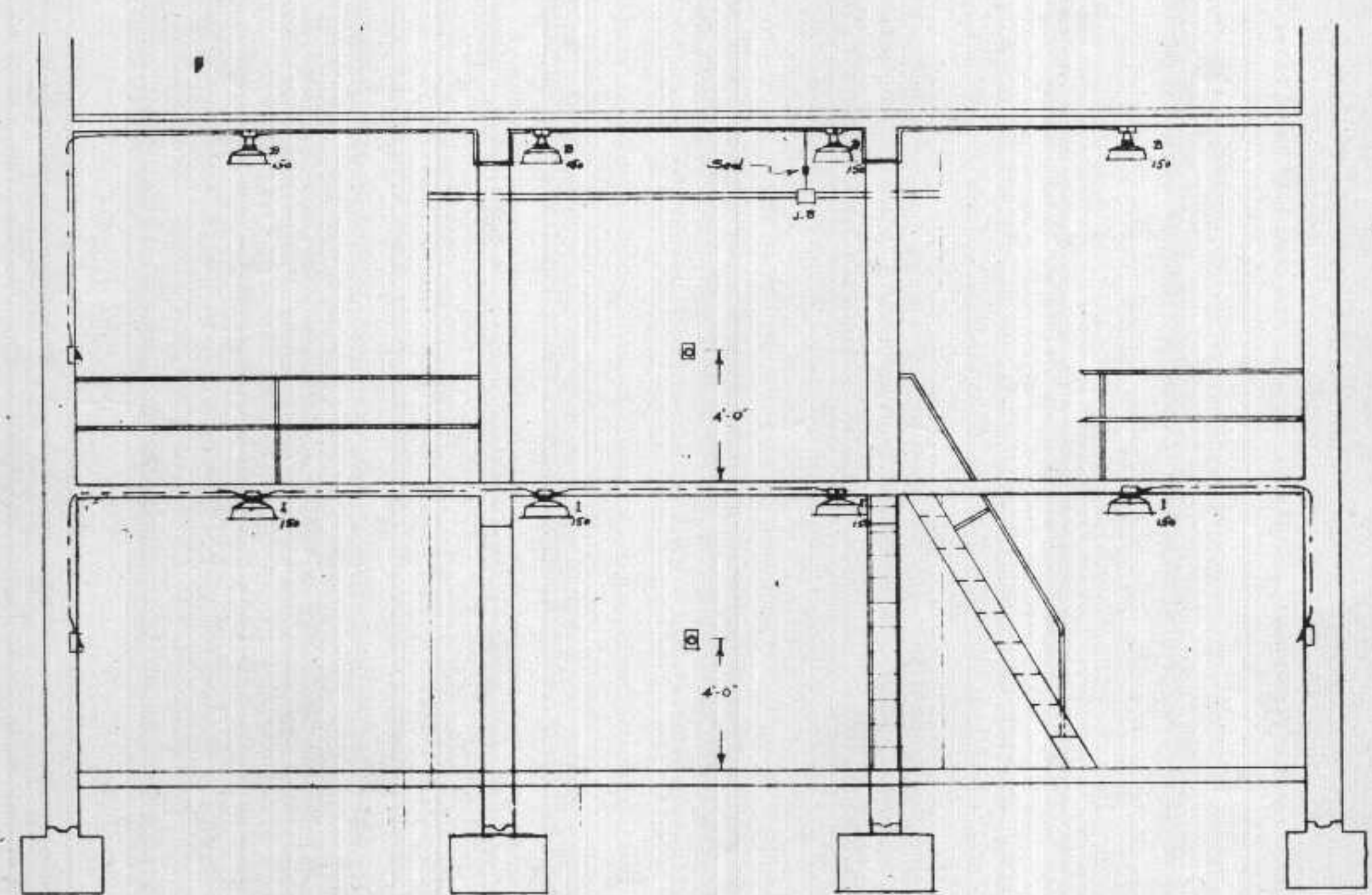
PLAN VIEW - ELEV. 622.0
SCALE: 1/4" = 1'-0"



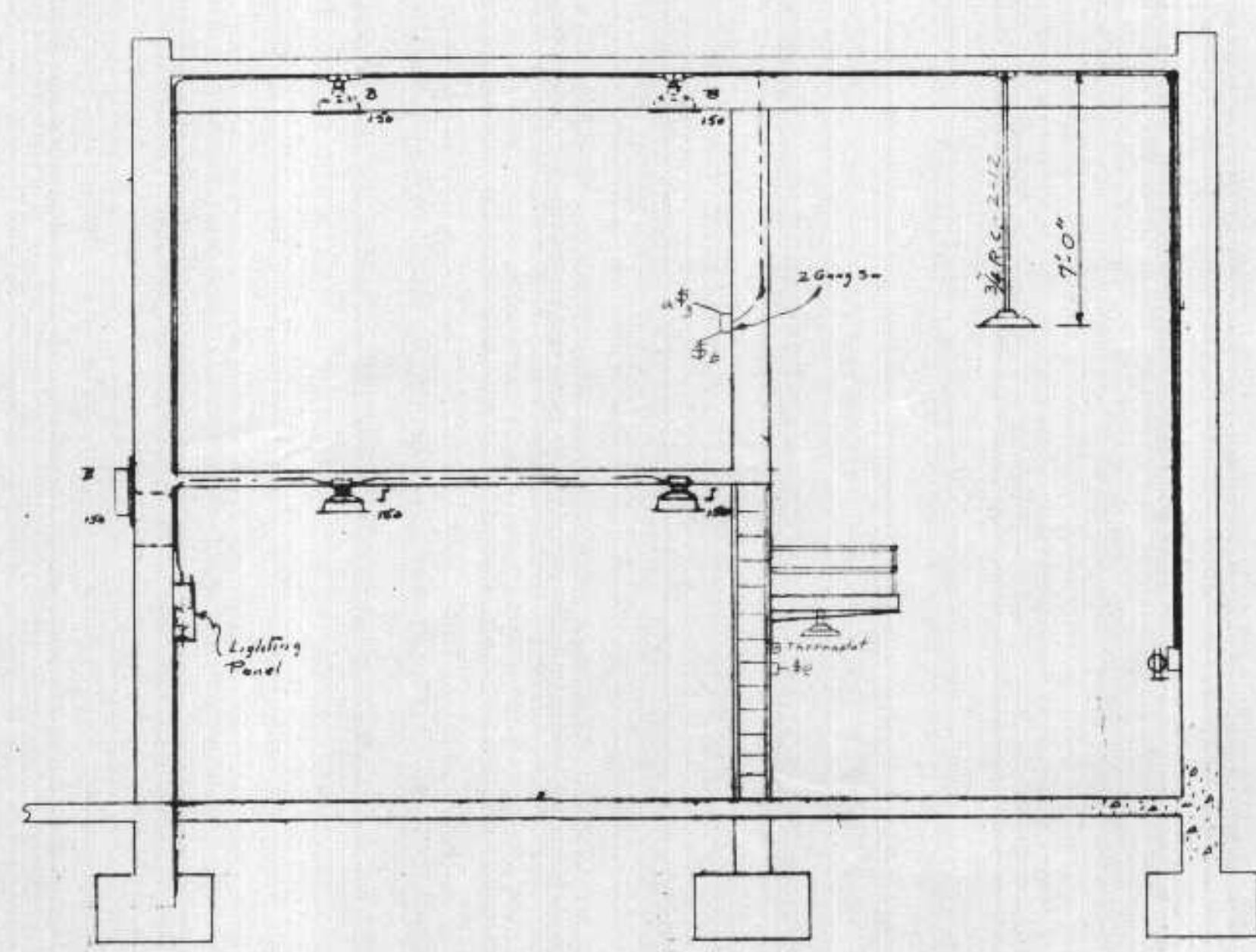
PLAN VIEW - ELEV. 611.0
SCALE: 1/4" = 1'-0"



Ground Floor Digester Bldg — Second Floor — Digester



SECTION A-A
SCALE: 1/4" = 1'-0"



SECTION B-B
SCALE: 1/4" = 1'-0"

LEGEND

- BENJAMIN STEEL REFLECTOR FOR VAPORLITE, CAT. NO. 146. DOME REFLECTOR 150 W. MOUNTED ON 4" OCTAGON OUTLET BOX.
- WHEELER VAPORLIGHT CEILING FIXTURE CAT. NO. 2145-06. SHALLOW DOME 100 W. LAMP MOUNTED ON SP5455 1" 5/8" DIA. OCTAGON OUTLET BOX 3" DEEP.
- WHEELER VAPORLIGHT LIGHT FIXTURE CAT. NO. 2187-0A. MOUNTED ON RIFP DENNIS CONDUIT.
- GOODRICH ENTRANCE LANTERN CAT. NO. 987 FOR 150 W. & 40 W. LAMP & SOCKETS.
- HUBBELL SINGLE-POLE TOGGLE SW. CAT. NO. 8808, 20A, 125V.
- HUBBELL 3-WAY TOGGLE SW. CAT. NO. 8953, 20A, 125V.
- C-N OUTLET RECEPTACLE CAT. NO. DS 334 3-WIRE, 2-POLE, 17A, 125V.
- INDICATES EXPOSED CONDUIT
- INDICATES CONDUIT IN CEILING SLAB

DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE
LABORATORY SERVICE

These Plans and Specifications are submitted in connection with an application for a permit to construct under the authority of the Wisconsin Statutes, subject to conditions set forth in the letter of approval.

Reviewed by: _____ (Date) _____
and are herewith APPROVED

Regional Engineer: _____ (Date) _____
Region V, Columbia, Illinois

NOTE - ALL ELECTRICAL EQUIPMENT IN DIGESTER BLDG. EXCEPT HEATER ROOM TO COMPLY WITH N.E.C. FOR HAZARDOUS LOCATIONS CLASS I-GROUP D

EXAMINED and reported upon by the Section on Environmental Sanitation

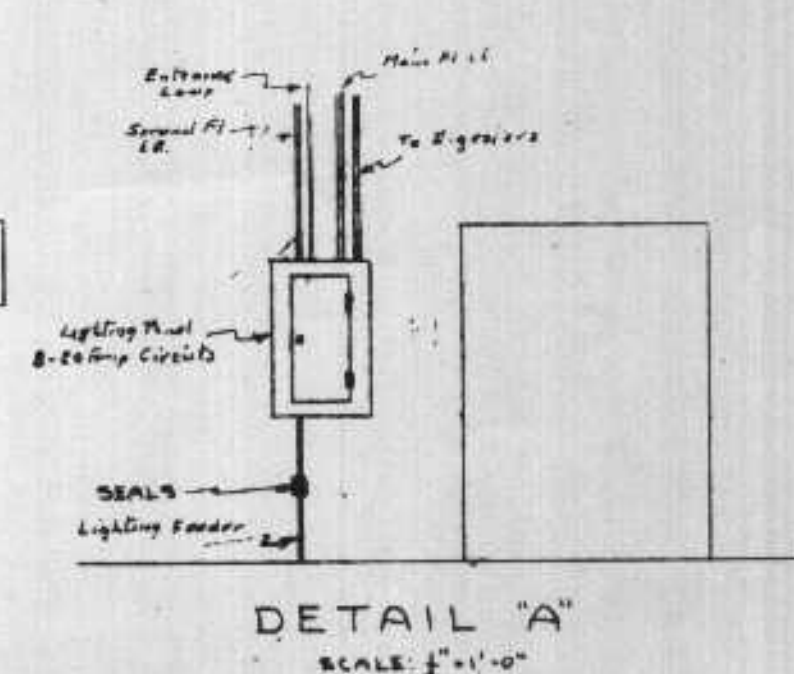
O. J. MUEGGE
State Sanitary Engineer

APPROVED by the State Board of Health, as required by Wisconsin Statutes, subject to conditions set forth in the letter of approval

JUL 6 1956

CARL N. NEUPERT, M. D.
State Health Officer

Verification: _____



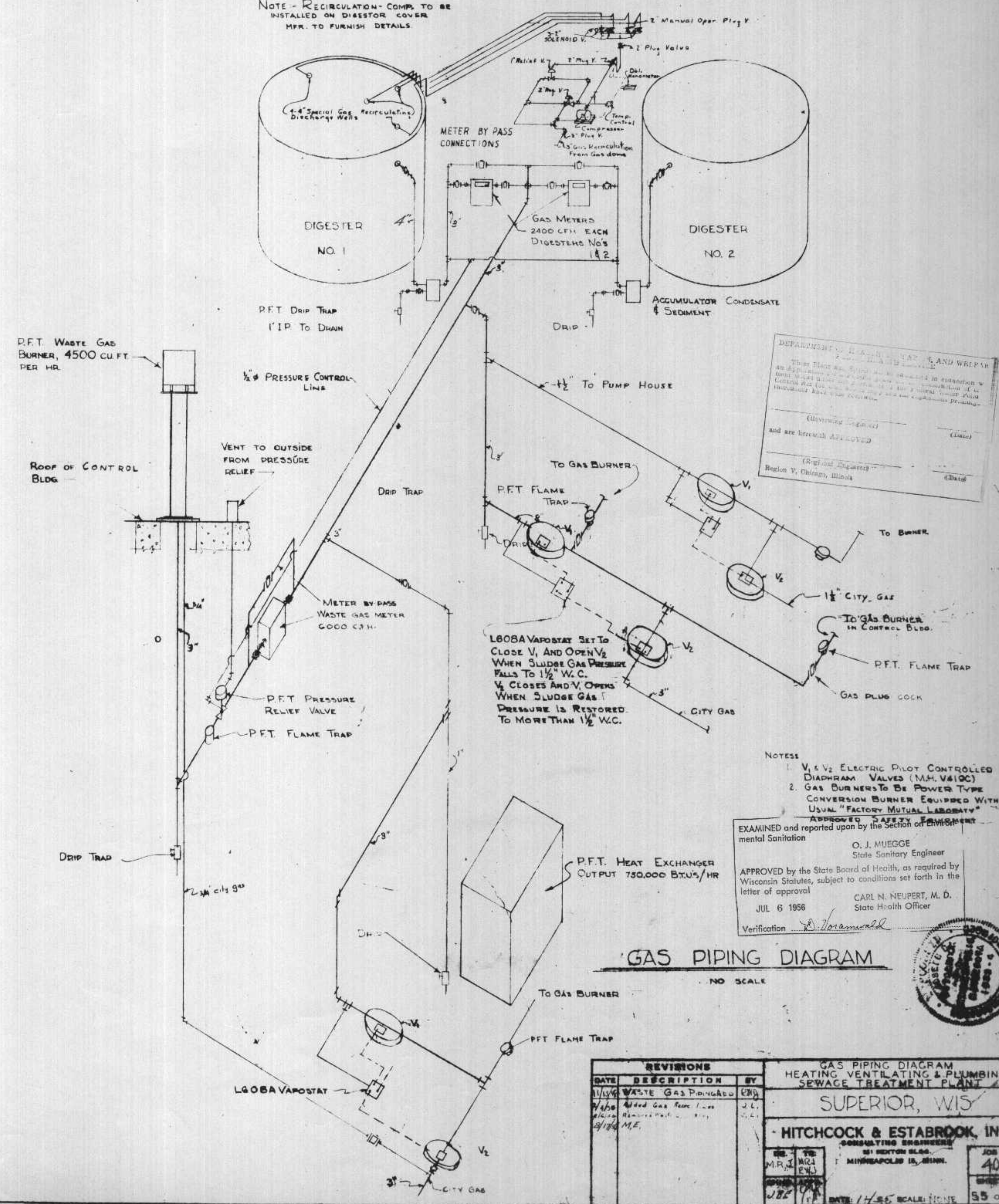
DETAIL A'
SCALE: 1/4" = 1'-0"

REVISIONS		
DATE	DESCRIPTION	BY
1/16/56	Removed Tunnel & Tunnel Lighting	ME
4/16/56	Revised steps elev. 620.0 and placed pipe opening at Elev. 611.0 at Digester Control Bldg.	ME
5/1/56	Changed per M.E. 8-1-56	ME
5/1/56	ME	ME

ELECTRIC LIGHTING DIGESTER CONTROL BLDG. SUPERIOR, WIS.		HITCHCOCK & ESTABROOK, INC. CONSULTING ENGINEERS 81 SEATON BLDG. MINNEAPOLIS 15, MINN.	JOB NO. 400
DR. TR. H.H. J.S.S.	CHKD. APPD. H.H. J.S.S.		SHEET NO. 69 OF 71
DATE: 12/55		SCALE: AS SHOWN	



NOTE - RECIRCULATION COMP. TO BE INSTALLED ON DIGESTOR COVER MFR. TO FURNISH DETAILS



DEPARTMENT OF HEALTH, LAND AND WATER
 These Plans are hereby approved in connection with the application for a permit for the construction of a Sewage Treatment Plant at the location shown on the attached map and are hereby APPROVED
 (Signature)
 (Signature)
 Region V, Chicago, Illinois

NOTES
 1. V₁ & V₂ ELECTRIC PILOT CONTROLLED DIAPHRAGM VALVES (M.M. V610C)
 2. GAS BURNERS TO BE POWER TYPE CONVERSION BURNER EQUIPPED WITH USUAL "FACTORY MUTUAL LABORATORY" APPROVED SAFETY EQUIPMENT
 EXAMINED and reported upon by the Section of Environmental Sanitation
 O. J. MUEGGE
 State Sanitary Engineer
 APPROVED by the State Board of Health, as required by Wisconsin Statutes, subject to conditions set forth in the letter of approval
 JUL 6 1956
 Verification *D. J. ...*
 CARL N. NEUPERT, M. D.
 State Health Officer

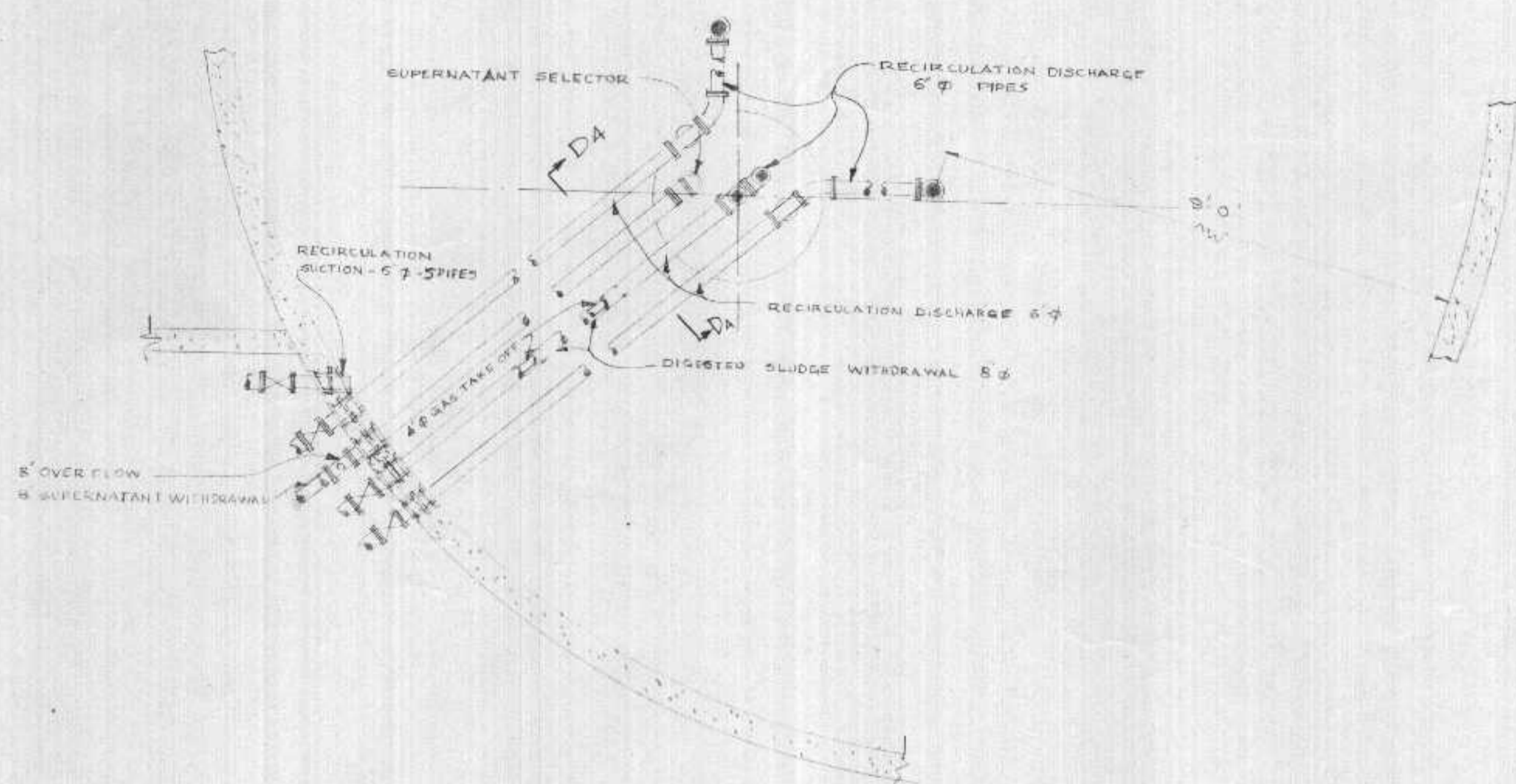
GAS PIPING DIAGRAM

NO SCALE

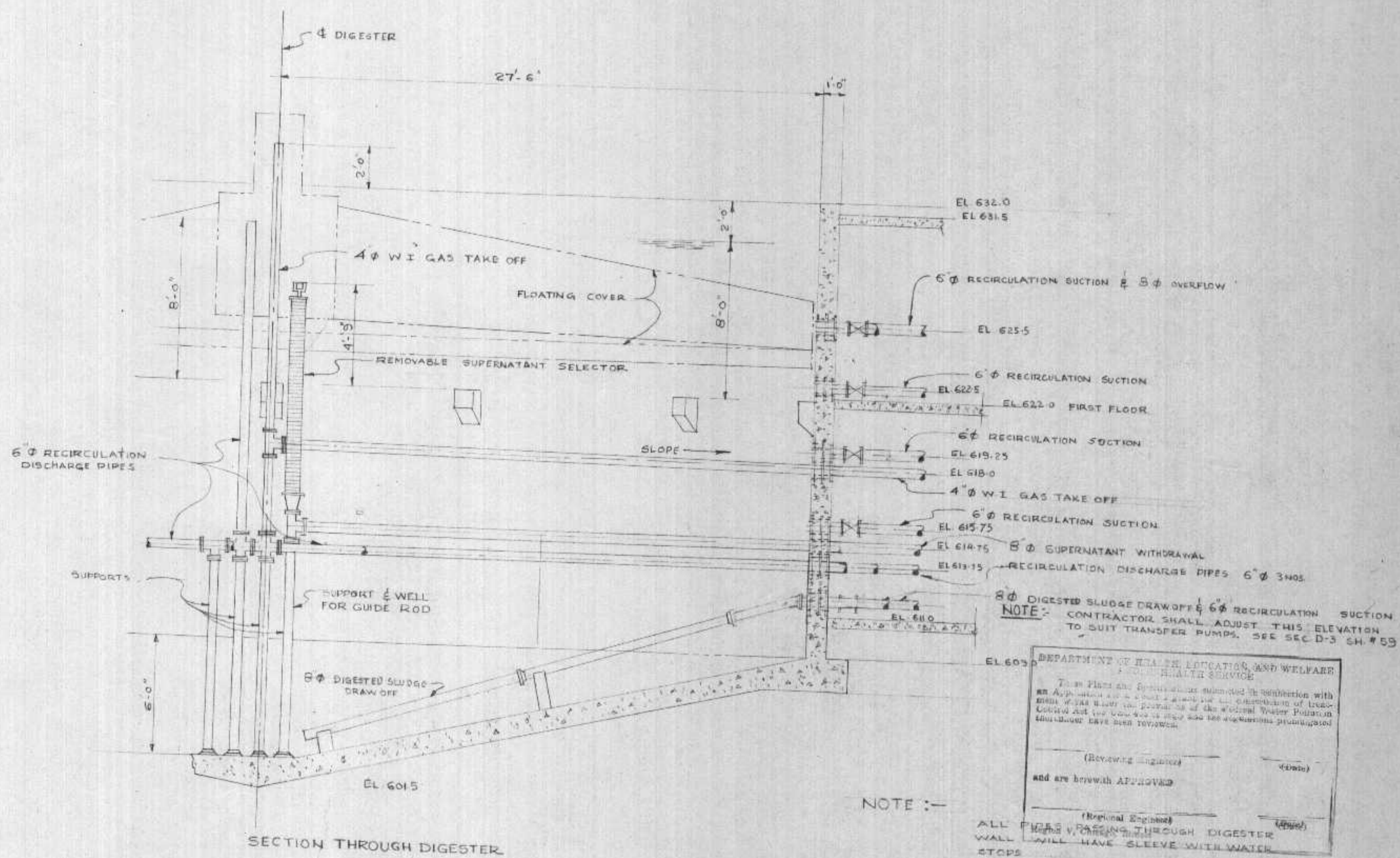
DATE	DESCRIPTION	BY
11/1/56	WASTE GAS PIPING	ENR
1/1/57	Added Gas Meter Lines	J.L.
1/1/57	Revised	J.L.
1/1/57	M.E.	J.L.

GAS PIPING DIAGRAM
 HEATING VENTILATING & PLUMBING
 SEWAGE TREATMENT PLANT
 SUPERIOR, WIS.
HITCHCOCK & ESTABROOK, INC.
 CONSULTING ENGINEERS
 81 WESTERN BLVD.
 MINNEAPOLIS 15, MINN.
 JOB NO. 400
 SHEET NO. 55 OF 78
 DATE 1/1/57 SCALE 1/8" = 1'-0"

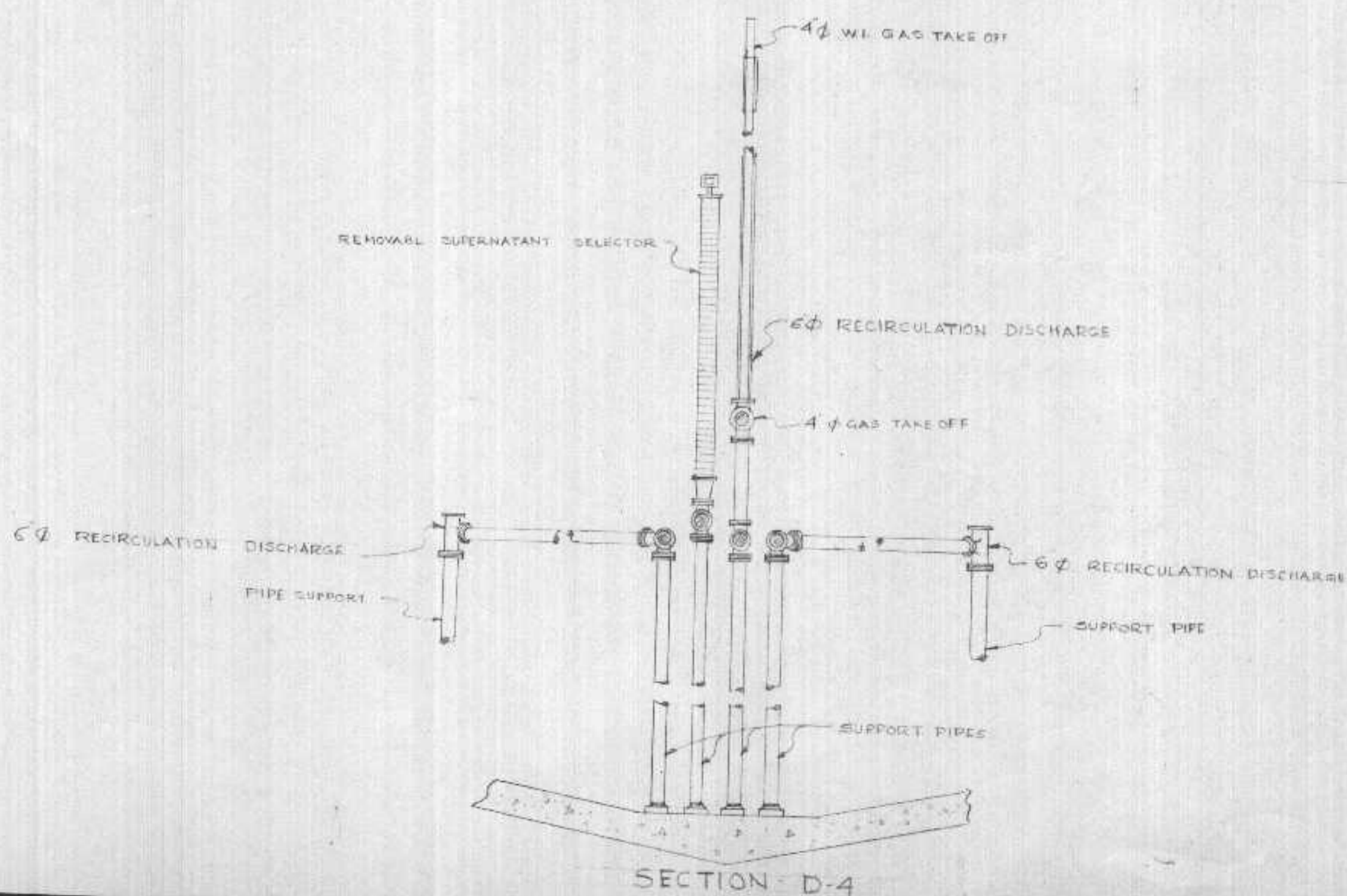




PLAN
NOTE - OTHER DIGESTER PIPES SIMILAR



SECTION THROUGH DIGESTER



SECTION D-4

DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE
PUBLIC HEALTH SERVICE
This Plan and Specifications submitted in connection with an application for a permit under the supervision of Engineer CARL N. NEUPERT, M. D., State Health Officer, and approved for construction under the provisions of the Wisconsin Sanitary Code Act and the Wisconsin Sanitary Code Regulations. All work shall conform to the above specifications and standards. All work shall be done in accordance with the provisions of the Wisconsin Sanitary Code Act and the Wisconsin Sanitary Code Regulations.

(Reviewing Engineer)
ADD AND APPROVED

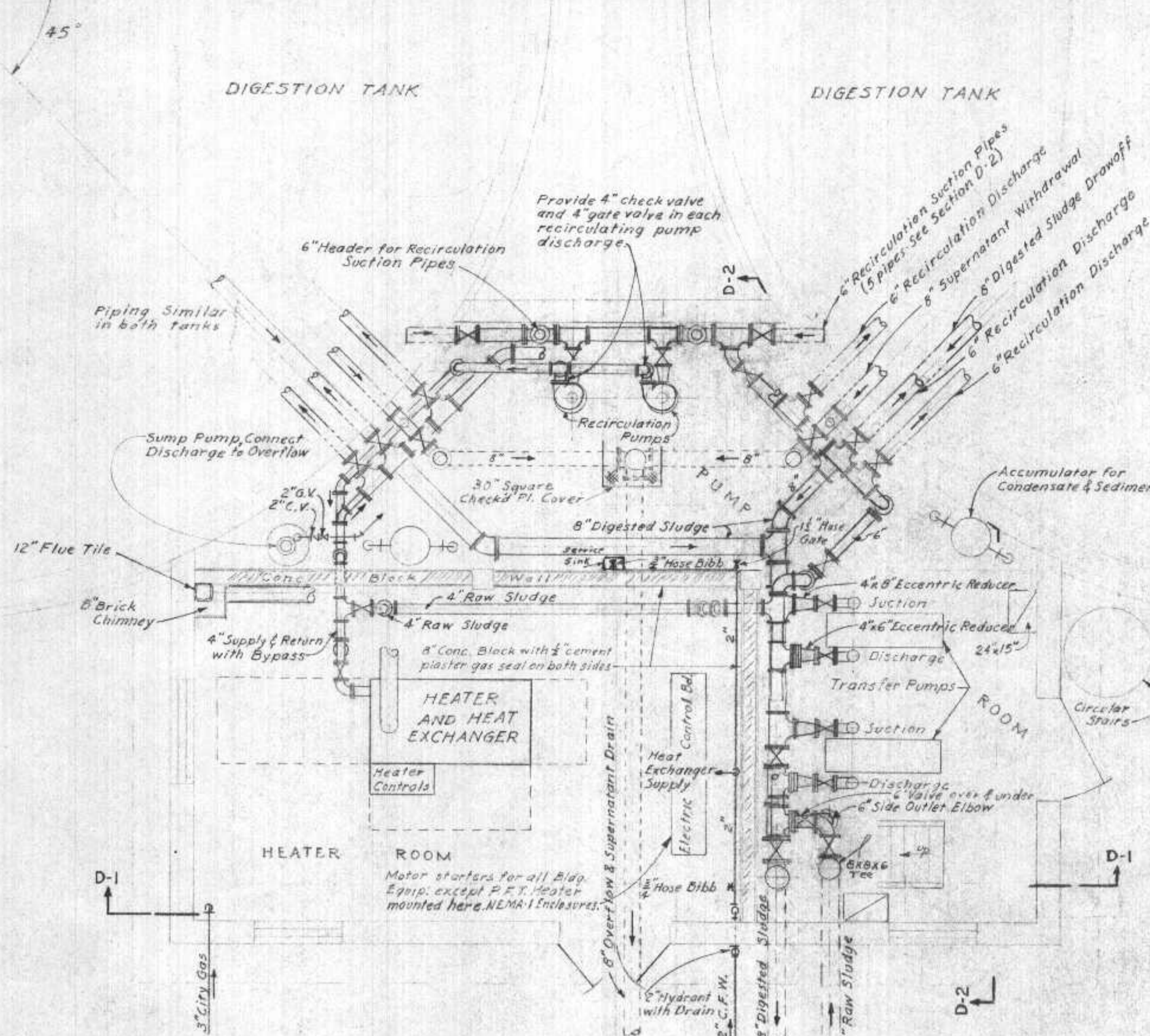
(Original Engineer)
ALL PIPES PASSING THROUGH DIGESTER WALL SHALL HAVE SLEEVE WITH WATER STOPS

EXAMINED and reported upon by the Section on Environmental Sanitation
O. J. MUEGGE
State Sanitary Engineer

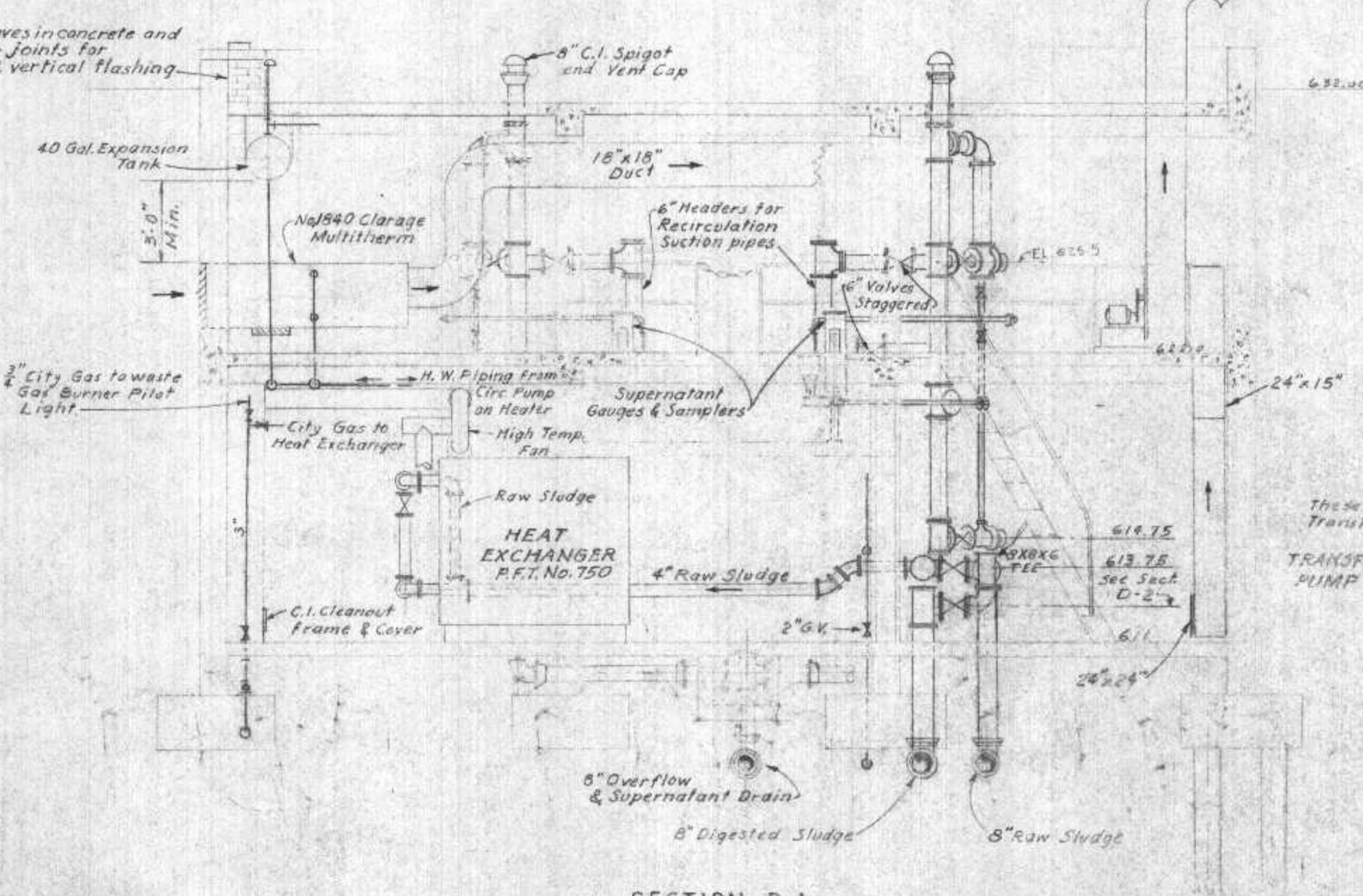
APPROVED by the State Board of Health, as required by Wisconsin Statutes, subject to conditions set forth in the letter of approval
JUL 6 1956
CARL N. NEUPERT, M. D.
State Health Officer

Verification *[Signature]*

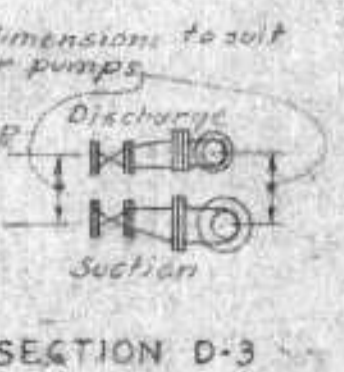
REVISIONS			DIGESTERS PIPING - PLAN & SECTIONS	
DATE	DESCRIPTION	BY	SUPERIOR - WIS.	
8/1/56	RECIRCULATION SECTION PIPES ADDED	J.D.	HITCHCOCK & ESTABROOK, INC. CONSULTING ENGINEERS 300 LINCOLN BLDG. MINNEAPOLIS 1, MINN.	
DR.	J.D.	TR.	JOB NO.	400
CHKD.	APPD.	PP.	SHEET NO.	58 OF 71
			DATE	8/9/56
			SCALE	1/4" = 1'-0"



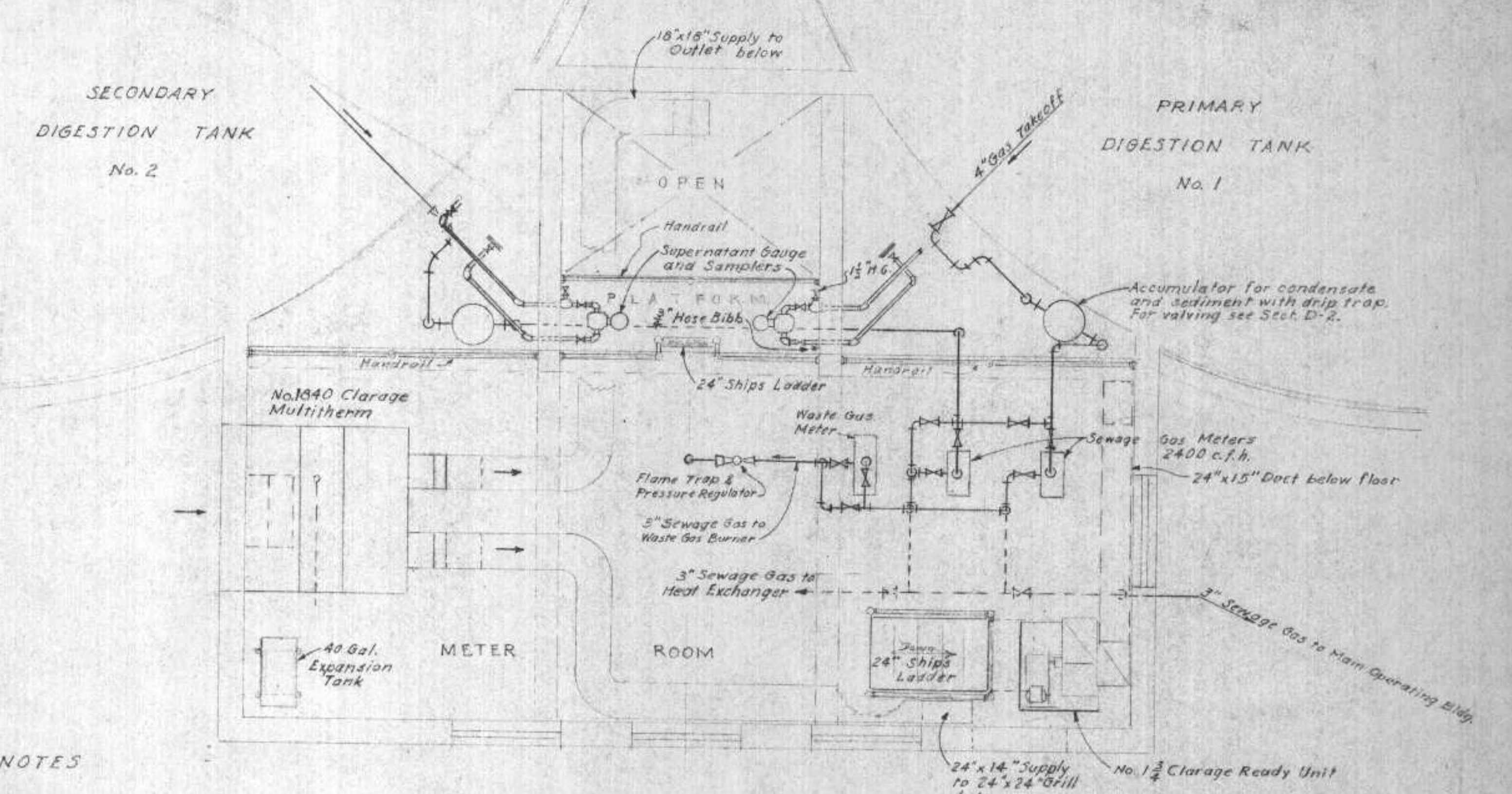
PLAN AT ELEV. 611



SECTION D-1



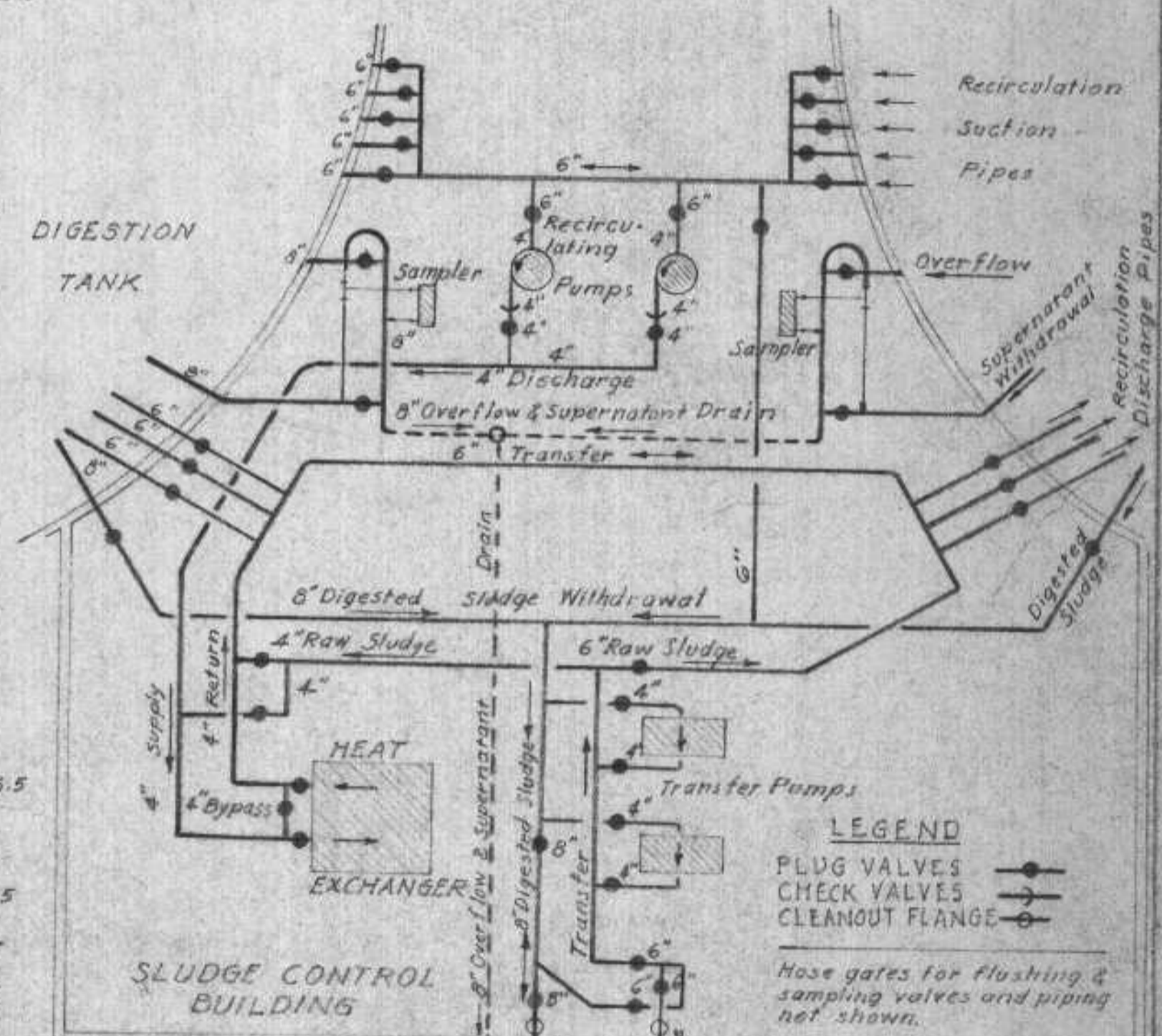
SECTION D-3



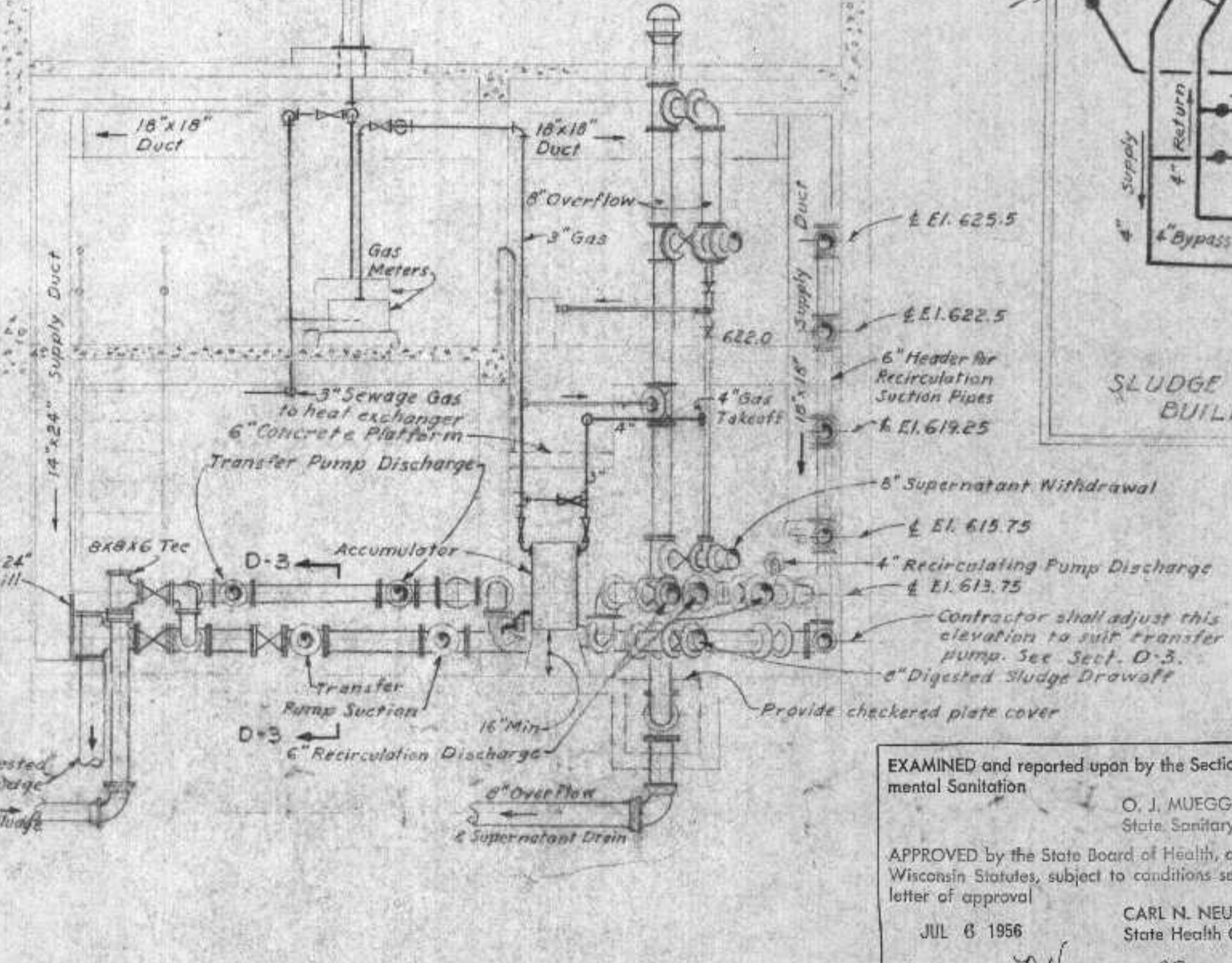
PLAN AT ELEV. 622

NOTES

1. All valves shall be lubricated plug valves unless otherwise noted.
2. All pipes passing through digestion tank walls shall be provided with C.I. wall sleeves with water stops.
3. Provide manual drip trap, PFT #6 or equal at bottom of all vertical runs of gas piping.
4. All sleeves and conduits between heater room & remainder of building shall be caulked gas tight.
5. All electrical equipment in pump room & on 2nd floor shall be explosion proof (Class I, Group D hazardous areas).
6. Provide 15-16" hose gates tapped into sludge piping for flushing & sampling connections, located as directed by the engineer.
7. Provide American Standard Service Slew #7650R with 3/8" C.W. Faucet, 5" trap & vent as required.
8. All valves 6" & larger, mounted 7' or higher above floor, to be chain operated.



SLUDGE PIPING FLOW DIAGRAM



SECTION D-2

EXAMINED and reported upon by the Section on Environmental Sanitation
O. J. MUEGGE
State Sanitary Engineer

APPROVED by the State Board of Health, as required by Wisconsin Statutes, subject to conditions set forth in the letter of approval
JUL 6 1956
CARL N. NEUPERT, M. D.
State Health Officer

Verification: *[Signature]*

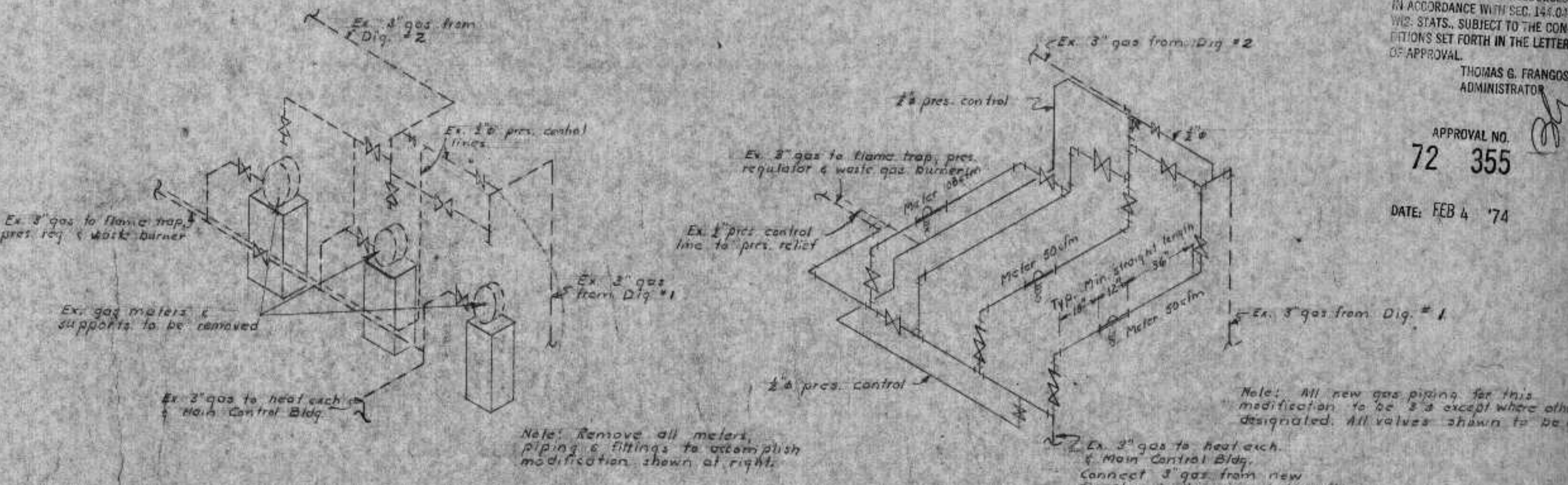
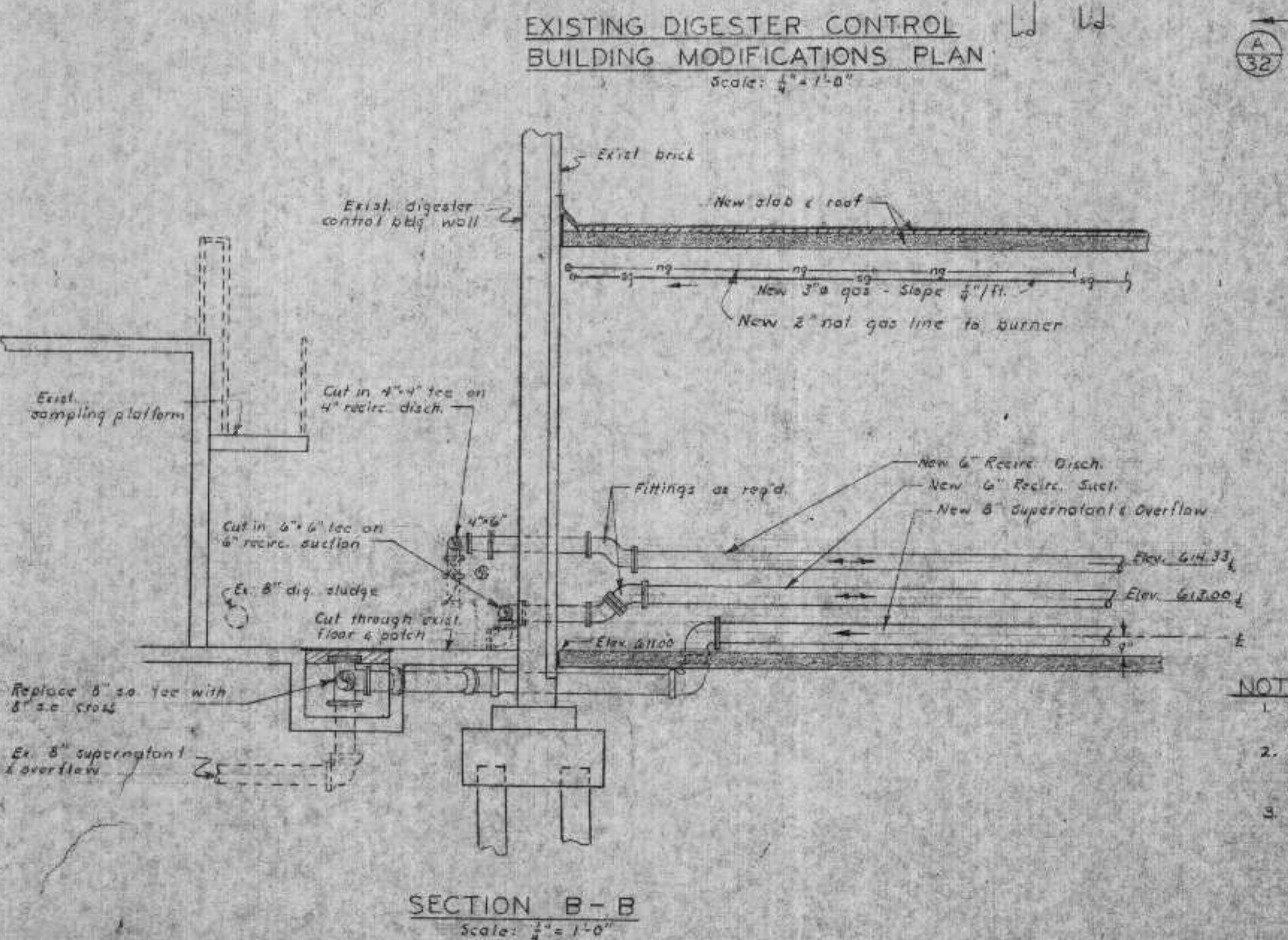
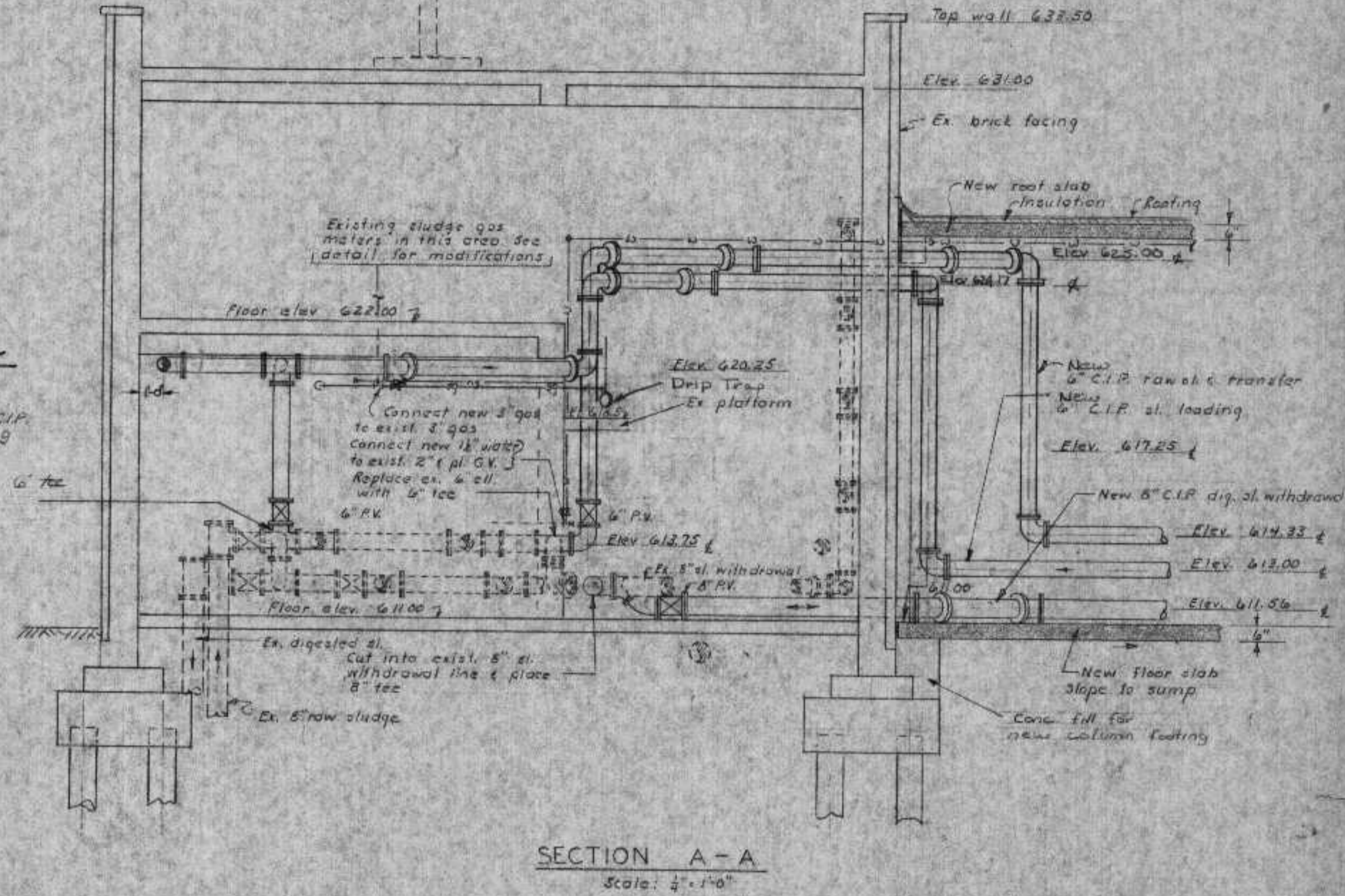
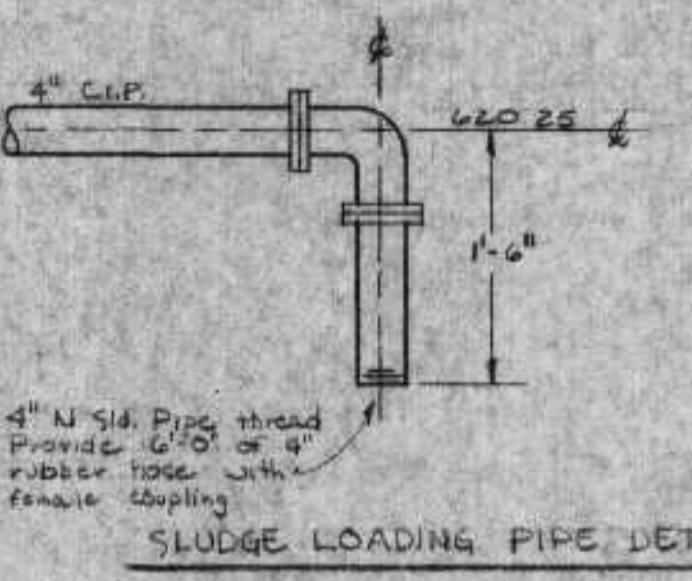
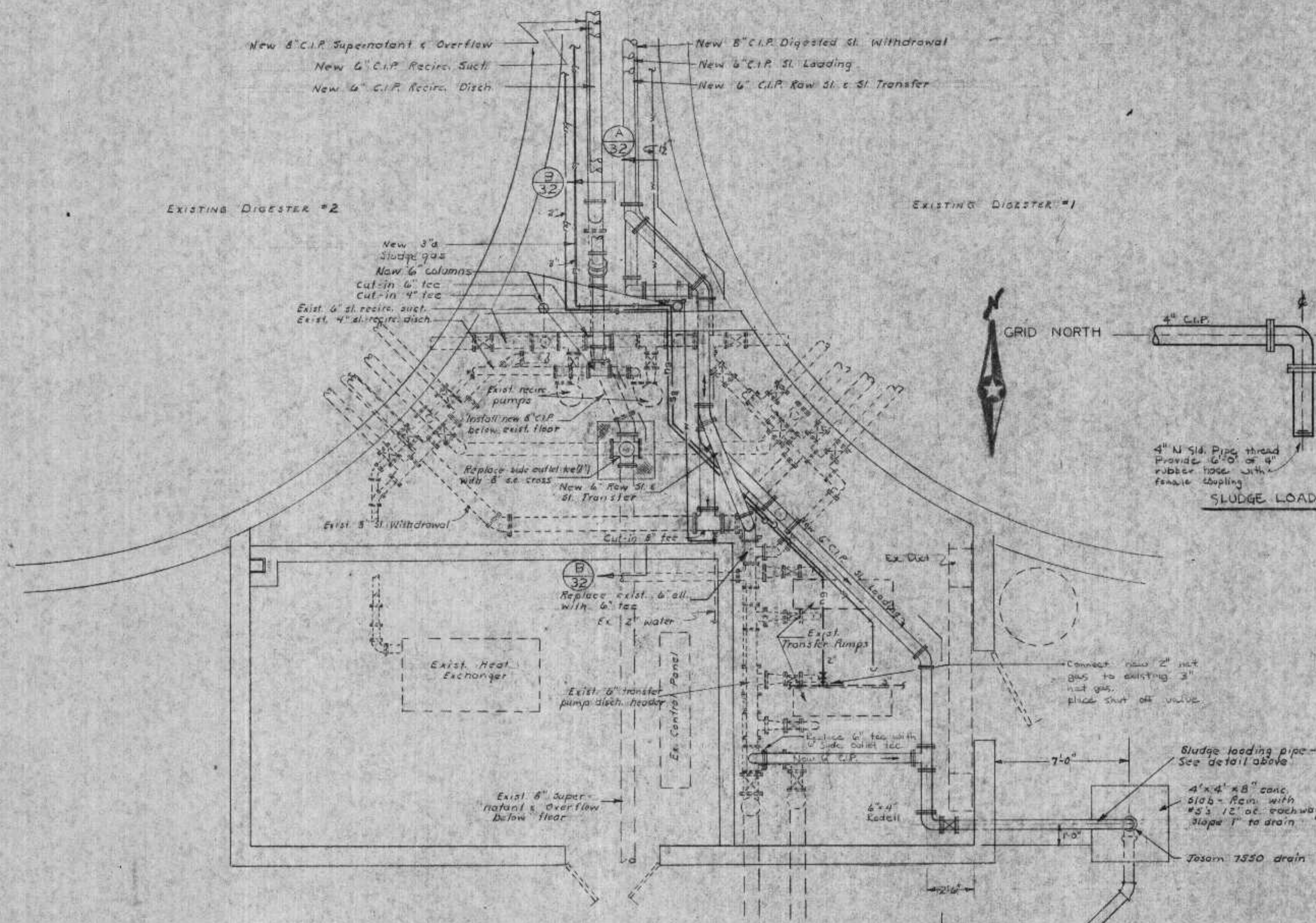
DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE
SUPERIOR, WISCONSIN

SEWAGE TREATMENT PLANT
SLUDGE CONTROL BUILDING
PLANS & SECTIONS

DRAWN BY: R. W. D.
TRACED BY: C. F. A.
CHECKED BY: *[Signature]*

SCALE: 1/4" = 1'-0" AUGUST 6, 1956

METCALF & EDDY
ENGINEERS
BOSTON, MASS.
SHEET 59 OF 71



- NOTES:**
1. EXISTING PIPING AND EQUIPMENT IS DESIGNATED WITH DASHED LINES.
 2. ALL DIMENSIONS OF EXISTING AND NEW PIPING ARE APPROXIMATE. CONTRACTOR TO FIELD VERIFY.
 3. SOME EXISTING PIPING IS NOT SHOWN ON THESE DRAWINGS. CONTRACTOR SHALL PROVIDE NEW PIPING GENERALLY AS SHOWN INCLUDING FITTINGS AS NECESSARY TO ACHIEVE DESIRED RESULT.

REVIEWED AND APPROVED BY THE
 DIV. OF ENVIRONMENTAL PROTECTION,
 DEPT. NATURAL RESOURCES,
 IN ACCORDANCE WITH SEC. 141.03,
 WIS. STAT., SUBJECT TO THE CONDITIONS
 SET FORTH IN THE LETTER OF APPROVAL.

THOMAS G. FRANGOS
 ADMINISTRATOR

APPROVAL NO.
72 355

DATE: FEB 4 '74

FUTURE DIGESTER

EXISTING DIGESTER NO. 2

EXISTING DIG. CONTROL BLDG.

NEW DIGESTER NO. 3

EXISTING DIGESTER NO. 1

REVIEWED AND APPROVED BY THE
 DIV. OF ENVIRONMENTAL PROTECTION,
 DEPT. NATURAL RESOURCES,
 IN ACCORDANCE WITH SEC. 144.05,
 WIS. STATS., SUBJECT TO THE CON-
 DITIONS SET FORTH IN THE LETTER
 OF APPROVAL.
 THOMAS G. FRANGOS
 ADMINISTRATOR

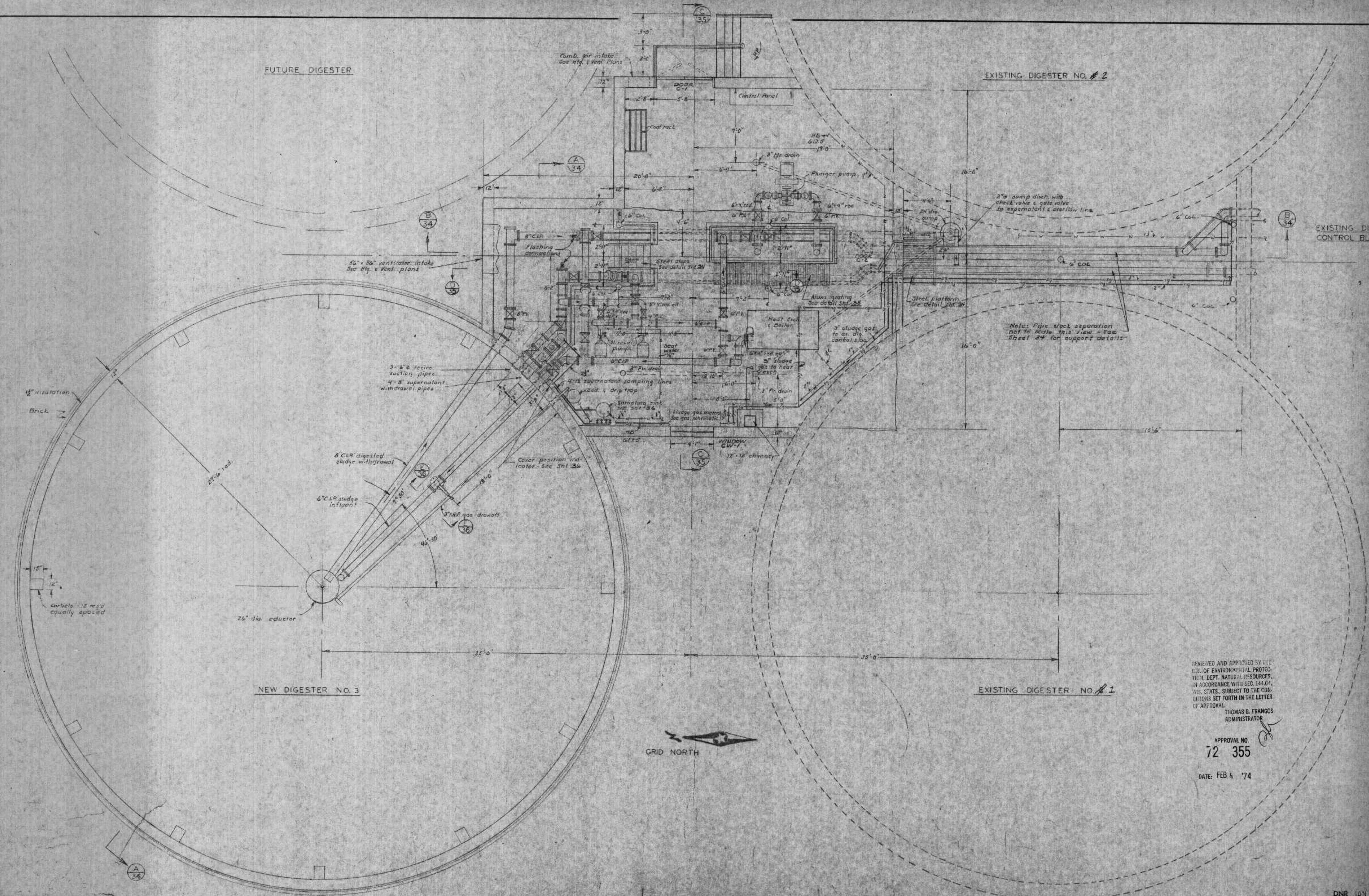
APPROVAL NO.
 72 355

DATE: FEB. 4 '74

GRID NORTH

DNR JAN 3 1974

SURVEY DRAWN DESIGN APPROVED	REVISIONS 91/17/74 2/1/74 2/1/74	DONESTRO, ROSENE, ANDERLIK & ASSOC., INC. ST. PAUL, MINNESOTA		SUPERIOR, WISCONSIN DATE: FEBRUARY 2, 1974 COMM. 6888A		DIGESTER AND DIGESTER CONTROL BLDG.		SHEET 33 64



Note: Pipe stack separation
 not to scale. This view - See
 Sheet 34 for support details.

56" x 36" vent/later intake
 See Htg. & Vent. plans

3-2" & recirc.
 suction pipes
 4-8" supernatant
 withdrawal pipes

8" CIP digested
 sludge withdrawal

6" CIP sludge
 influent

3" SRP gas drawoff

Cover position ind-
 icator - see Sht. 36

4-1/2" supernatant sampling lines
 lead & drip trap

Sampling line
 see Sht. 36

Sludge gas meter
 see gas schematic

12" x 12" chimney

W/INDOOR
 E.W.-7

Heat exch.
 & boiler

3" sludge gas
 to heat
 exch.

3" sludge gas
 to heat
 exch.

3" sludge gas
 to heat
 exch.

3" sludge gas
 to heat
 exch.

3" sludge gas
 to heat
 exch.

3" sludge gas
 to heat
 exch.

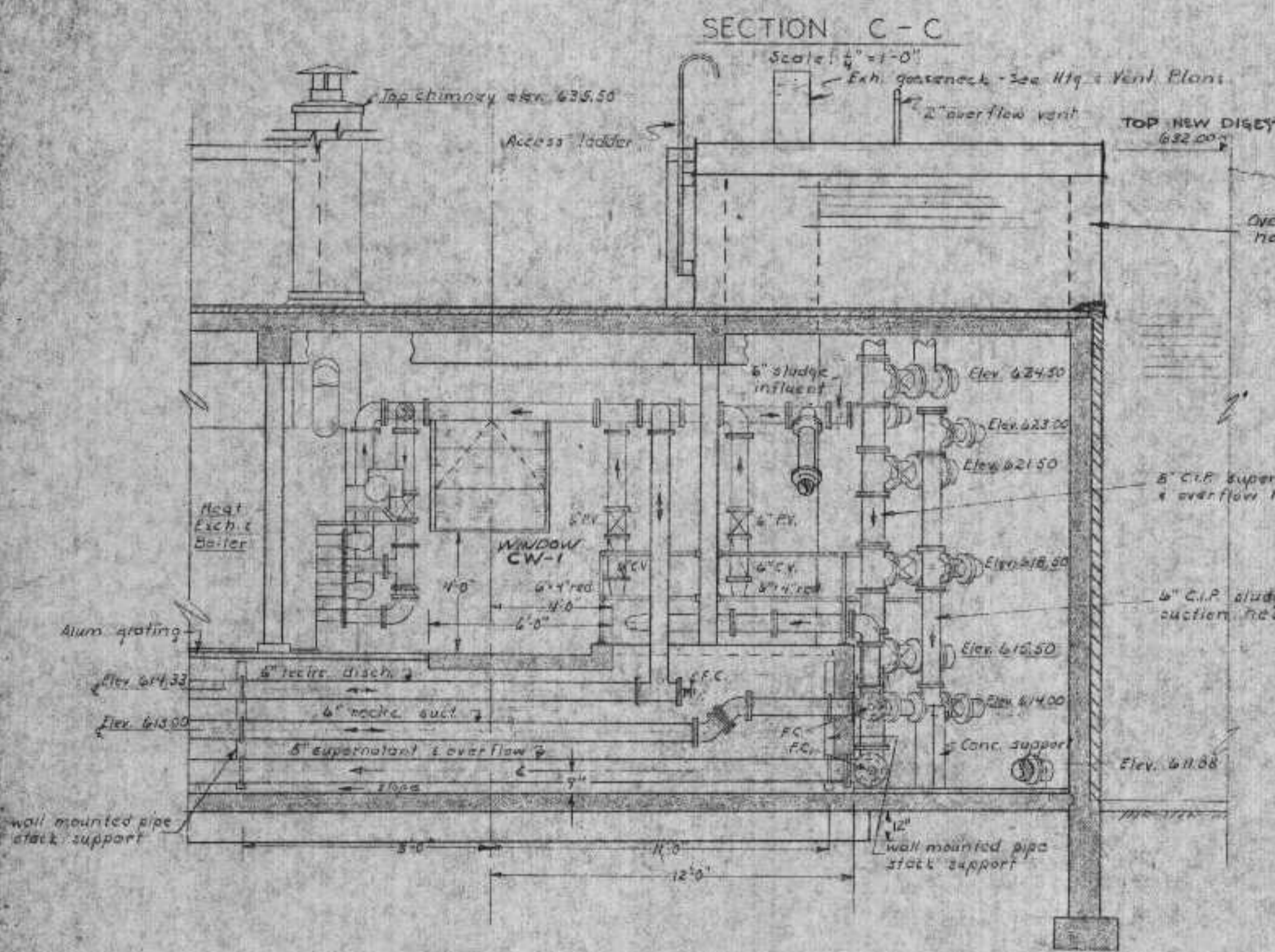
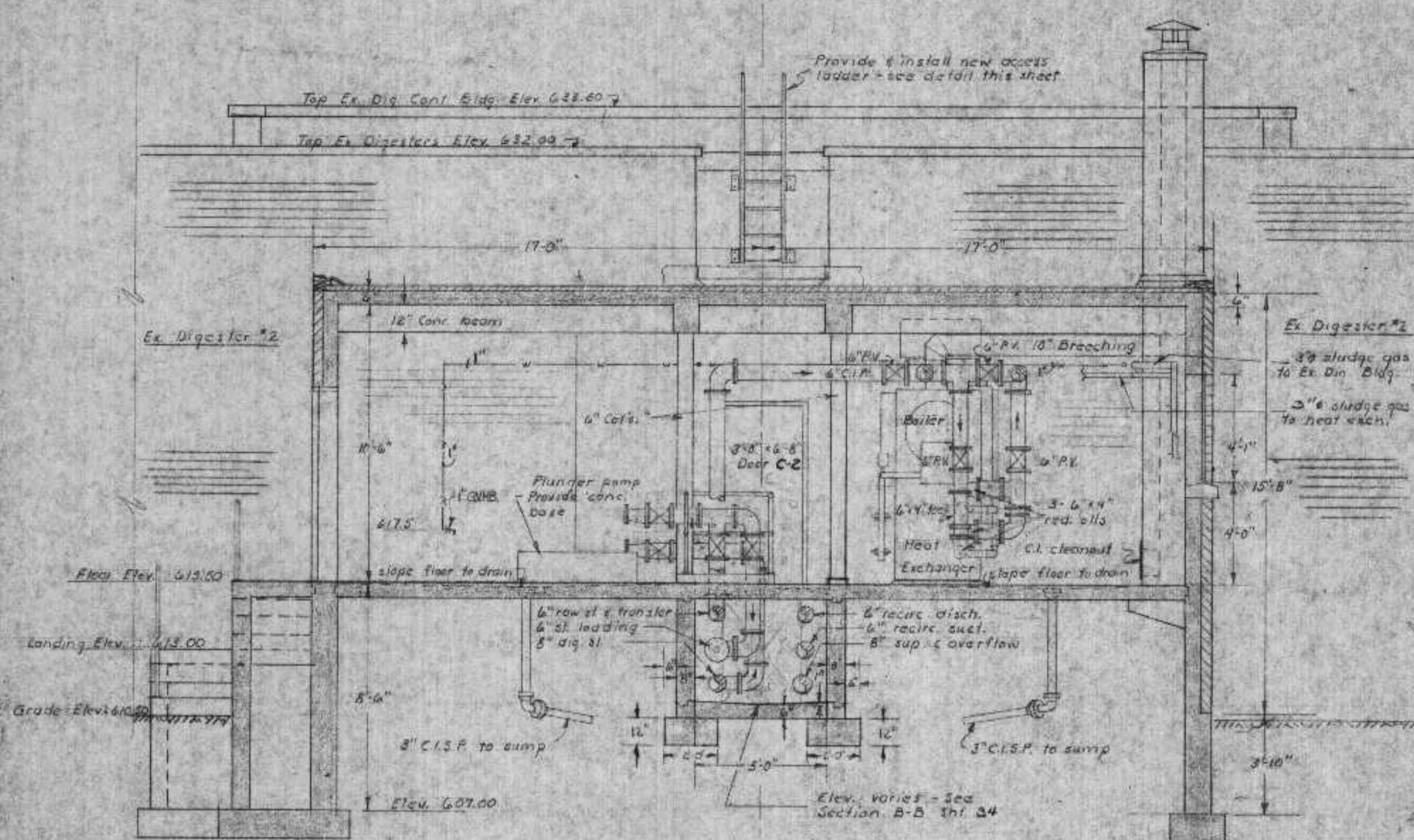
3" sludge gas
 to heat
 exch.

3" sludge gas
 to heat
 exch.

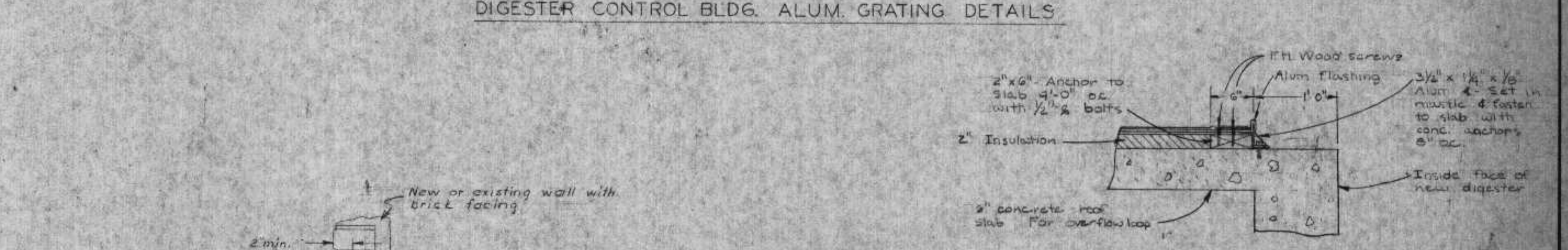
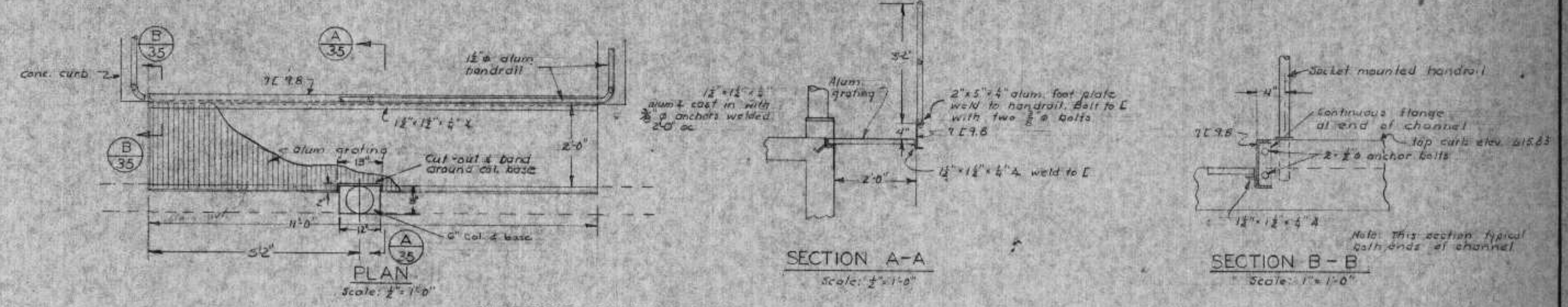
3" sludge gas
 to heat
 exch.

3" sludge gas
 to heat
 exch.

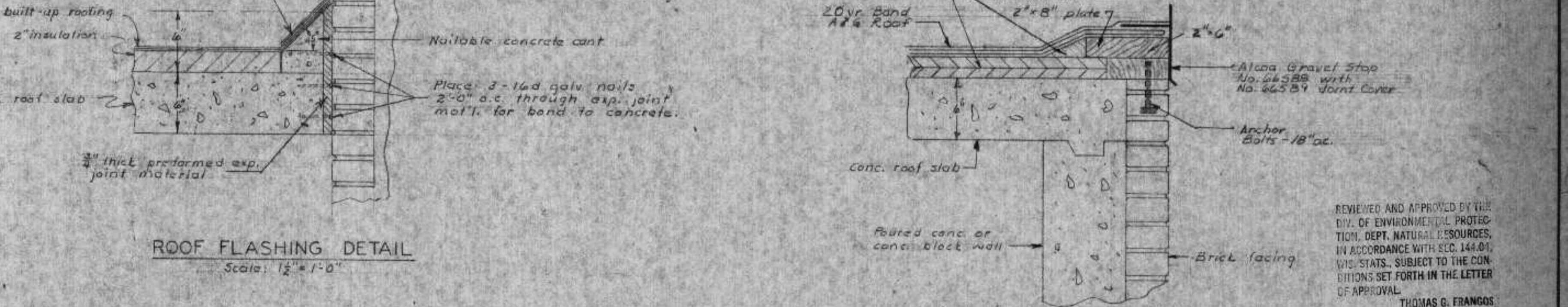
3" sludge gas
 to heat
 exch.



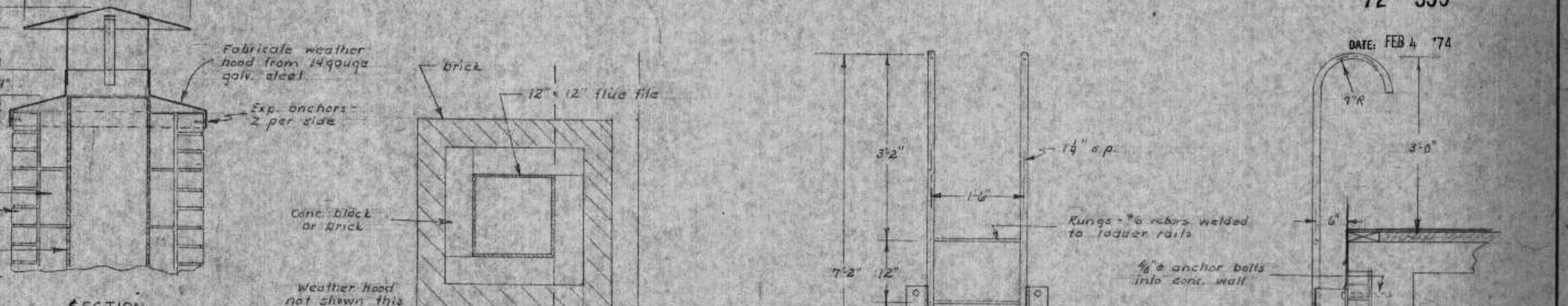
SECTION D-D
Scale: 1/4" = 1'-0"



OVERFLOW LOOP HOUSING GRAVEL STOP DETAIL
Scale: 1" = 1'-0"



ROOF FLASHING DETAIL
Scale: 1/2" = 1'-0"



CHIMNEY DETAILS
Scale: 1" = 1'-0"

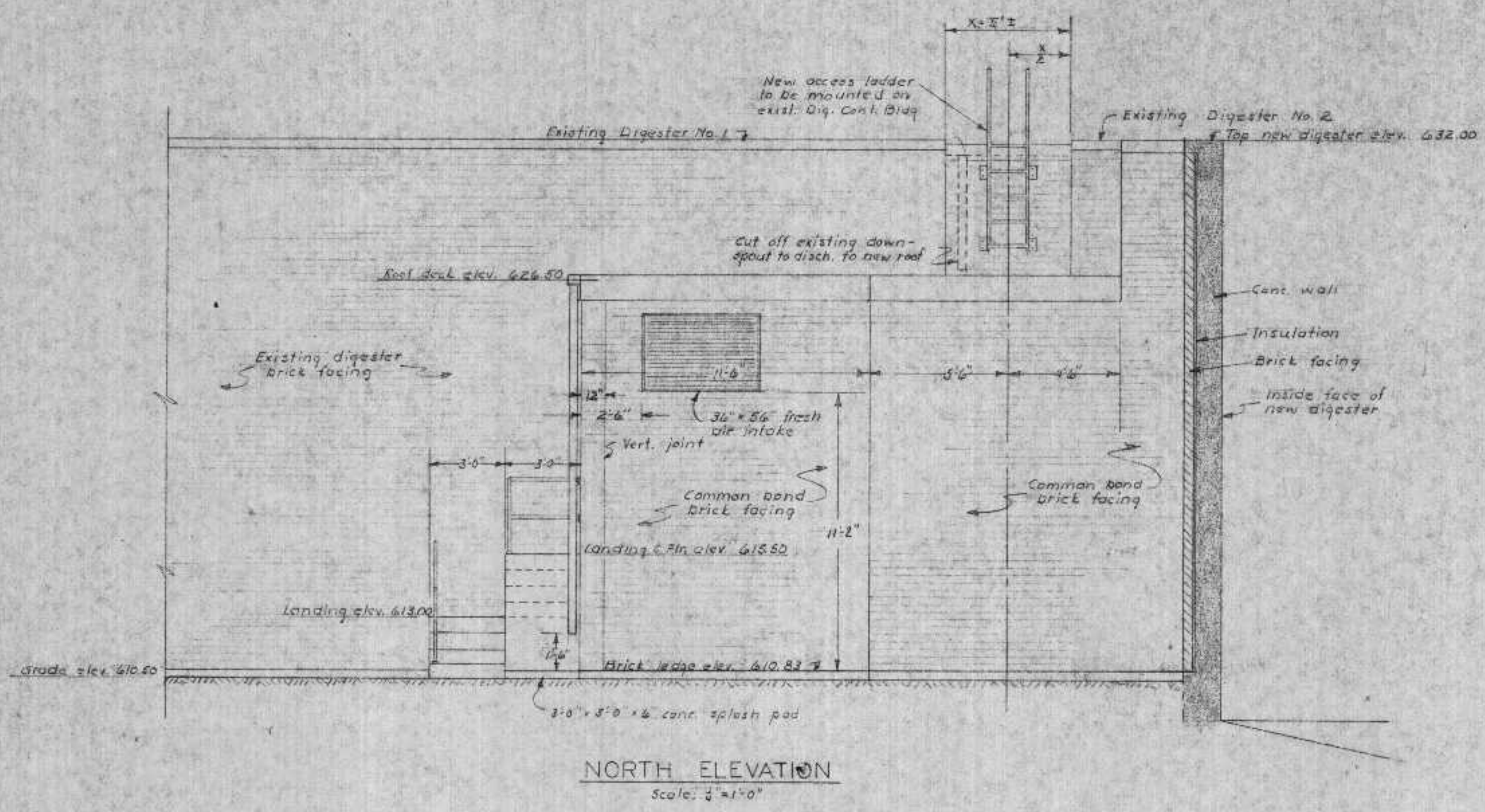


ACCESS LADDER DETAILS - 2 REQ'D
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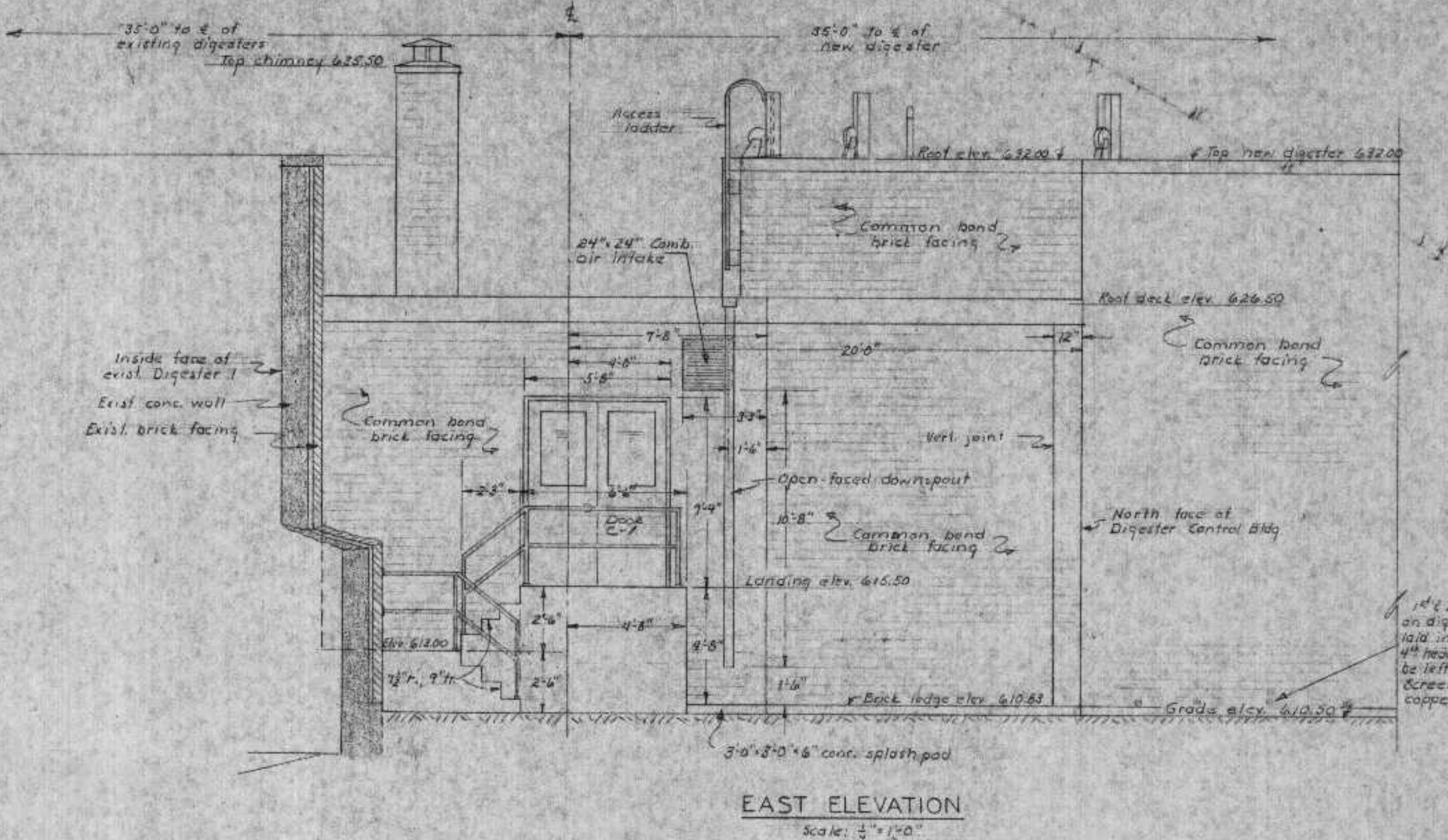
REVIEWED AND APPROVED BY THE
DIV. OF ENVIRONMENTAL PROTECT.
TION, DEPT. NATURAL RESOURCES,
IN ACCORDANCE WITH SEC. 144.01,
WIS. STATS. SUBJECT TO THE CON-
DITIONS SET FORTH IN THE LETTER
OF APPROVAL.
THOMAS G. FRANGOS
ADMINISTRATOR

APPROVAL NO.
72 355

DATE: FEB 4 '74

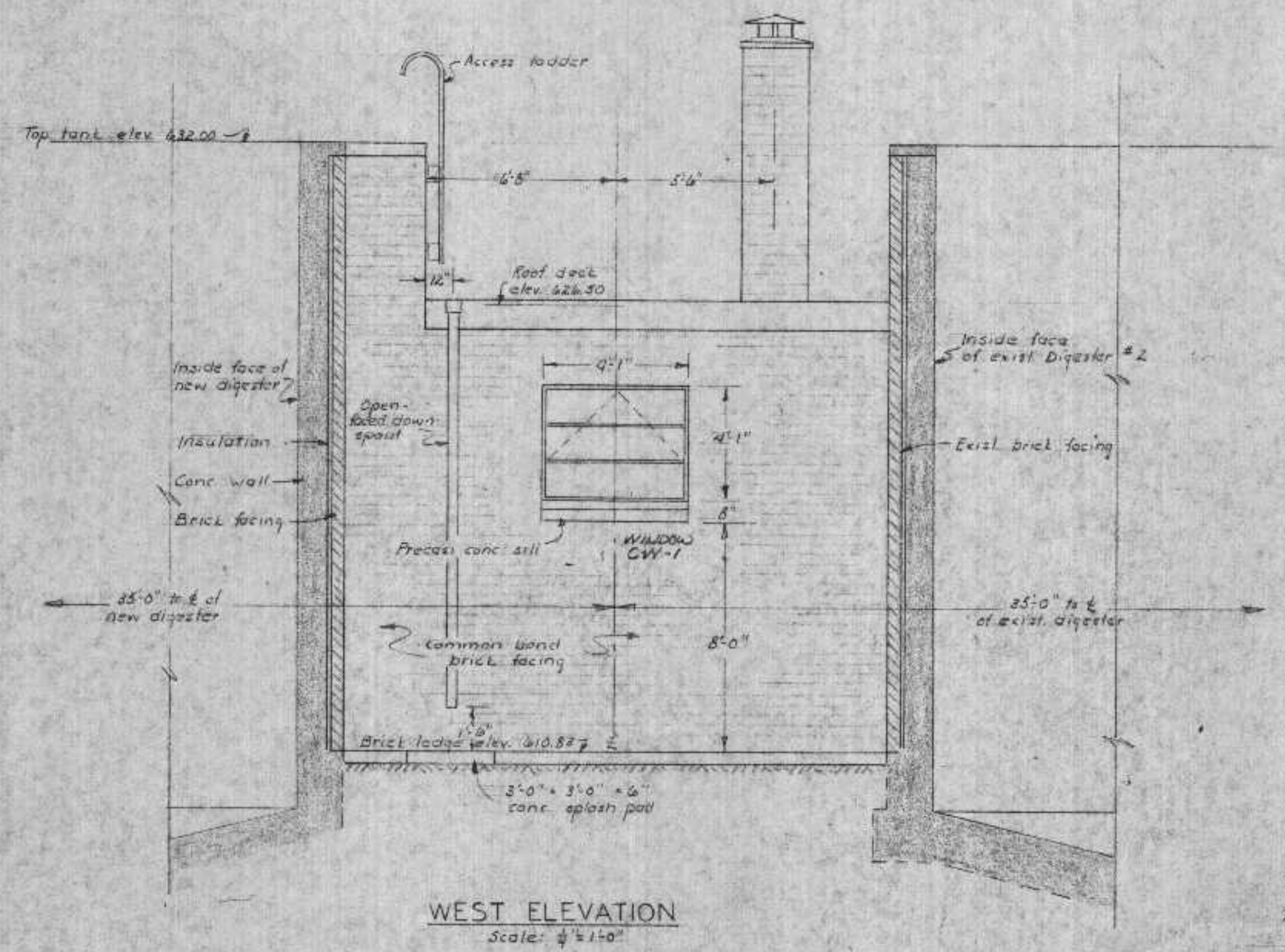


NORTH ELEVATION
Scale: 3/8" = 1'-0"

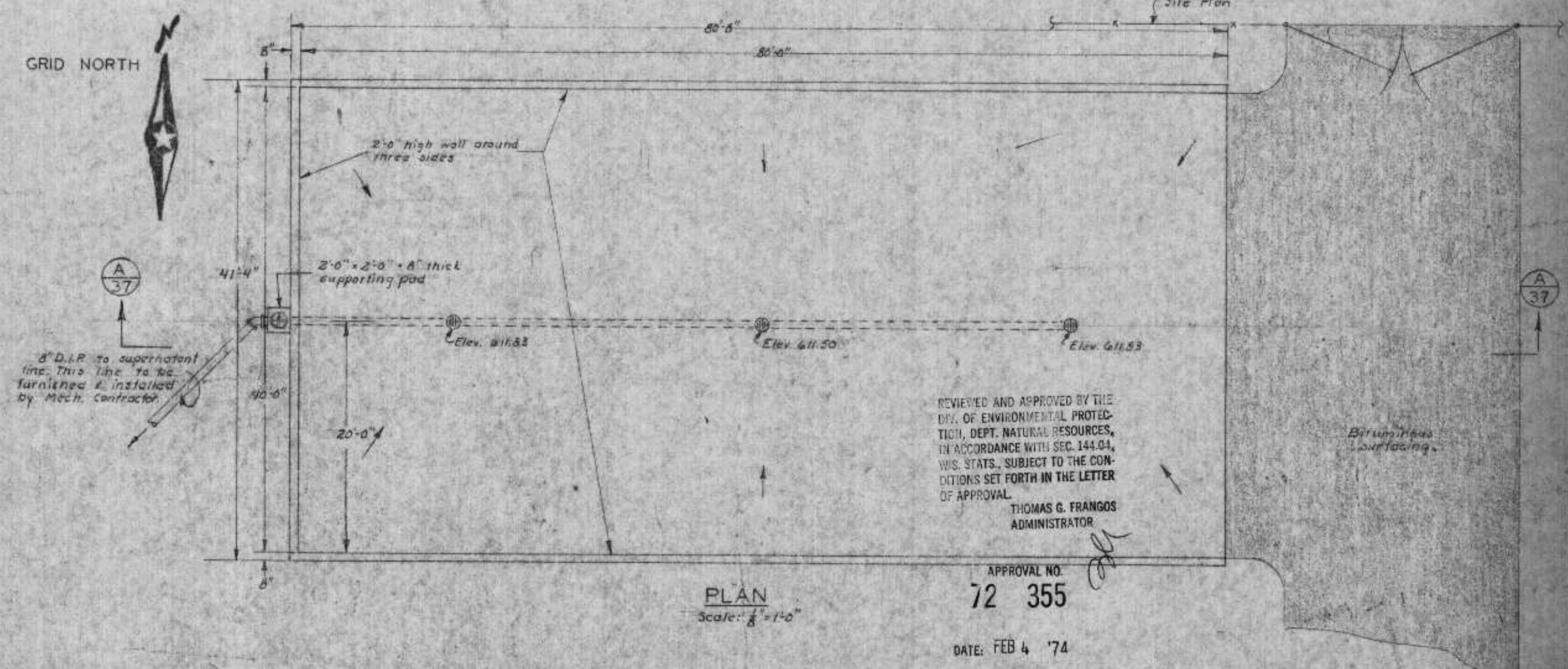


EAST ELEVATION
Scale: 3/8" = 1'-0"

DIGESTER ELEVATIONS

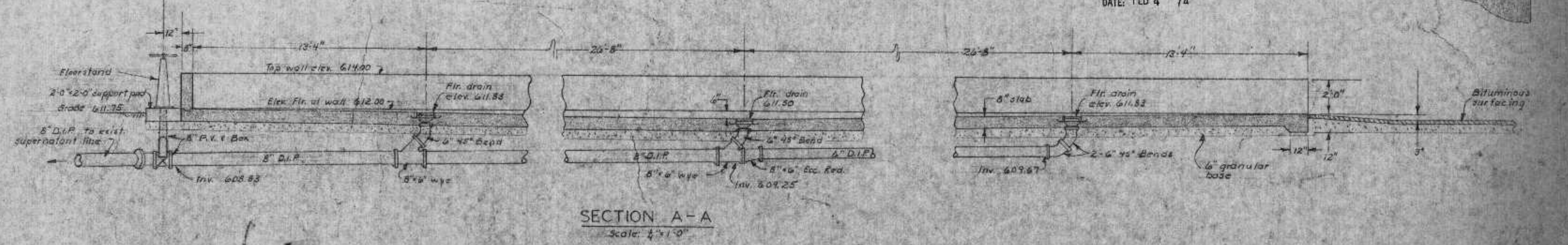


WEST ELEVATION
Scale: 3/8" = 1'-0"



PLAN
Scale: 3/8" = 1'-0"

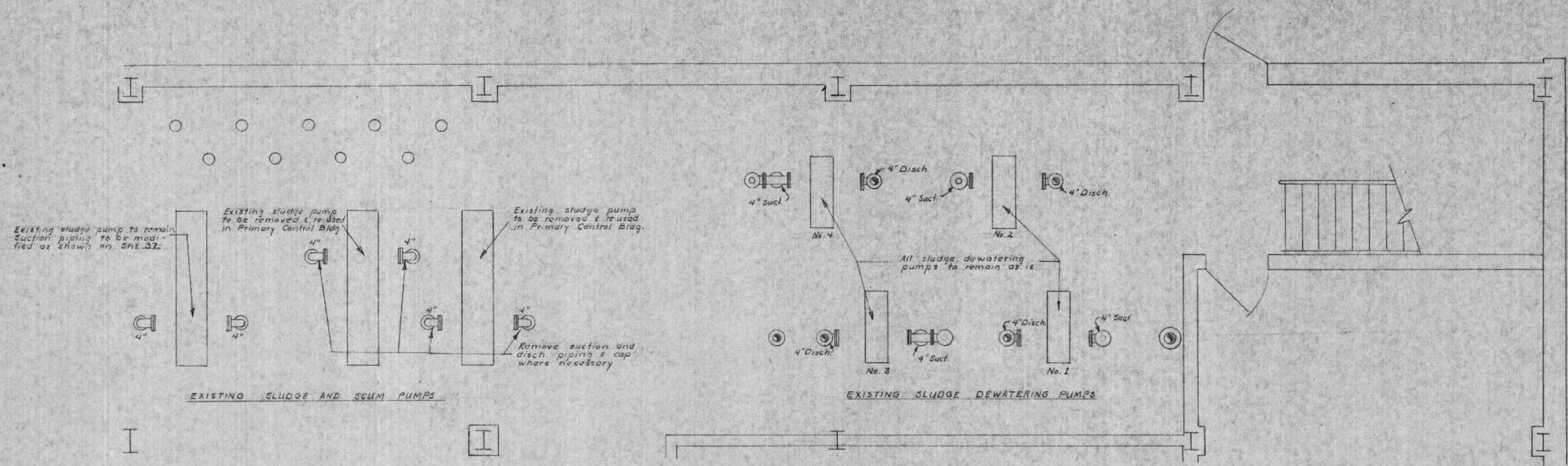
REVIEWED AND APPROVED BY THE
 DIV. OF ENVIRONMENTAL PROTECTION,
 DEPT. NATURAL RESOURCES,
 IN ACCORDANCE WITH SEC. 144.04,
 WIS. STATS., SUBJECT TO THE LETTER
 OF APPROVAL.
 THOMAS G. FRANGOS
 ADMINISTRATOR
 APPROVAL NO.
72 355
 DATE: FEB 4 '74



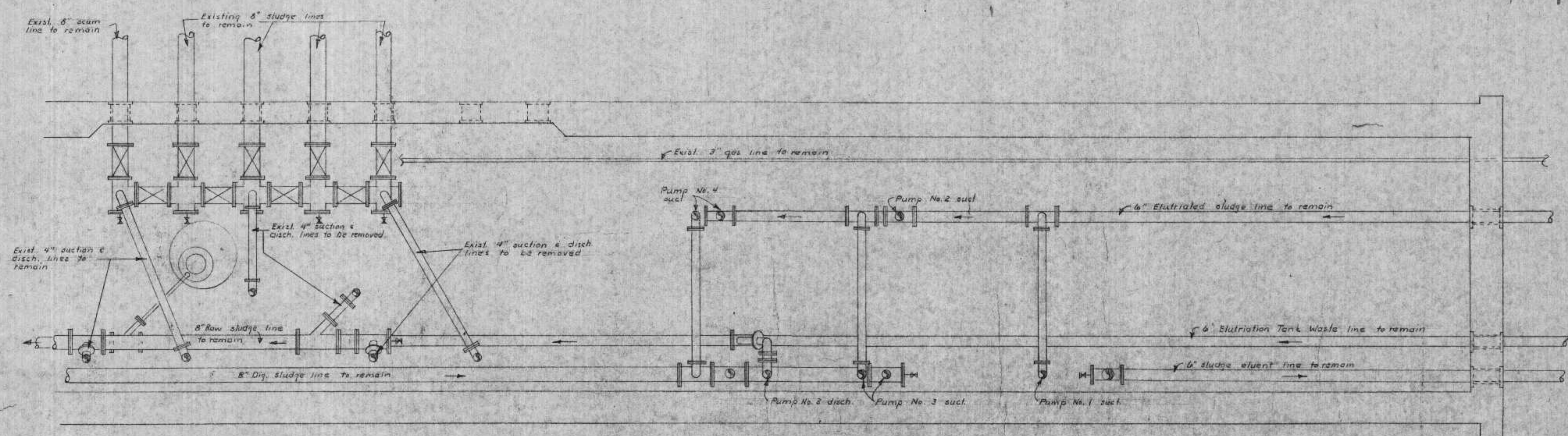
SECTION A-A
Scale: 1/2" = 1'-0"

FILTER CAKE STORAGE SLAB

DNR JAN 3 1974



EXISTING FLOOR PLAN OF SLUDGE PUMPS
FLOOR ELEV 611.0
Scale: 1/8" = 1'-0"



EXISTING PLAN OF PIPE SPACE
FLOOR ELEV 603.33
Scale: 1/8" = 1'-0"

Note:
For additions and modifications
refer see sheet no 37

REVIEWED AND APPROVED BY THE
DIR. OF ENVIRONMENTAL PROTECTION,
DEPT. NATURAL RESOURCES,
WIS. STATE, SUBJECT TO THE CONDITIONS SET FORTH IN THE LETTER
OF APPROVAL.
THOMAS G. FRANGOS
ADMINISTRATOR

APPROVAL NO.
72 355

DATE: FEB 4 '74

DNR JAN 3 1974

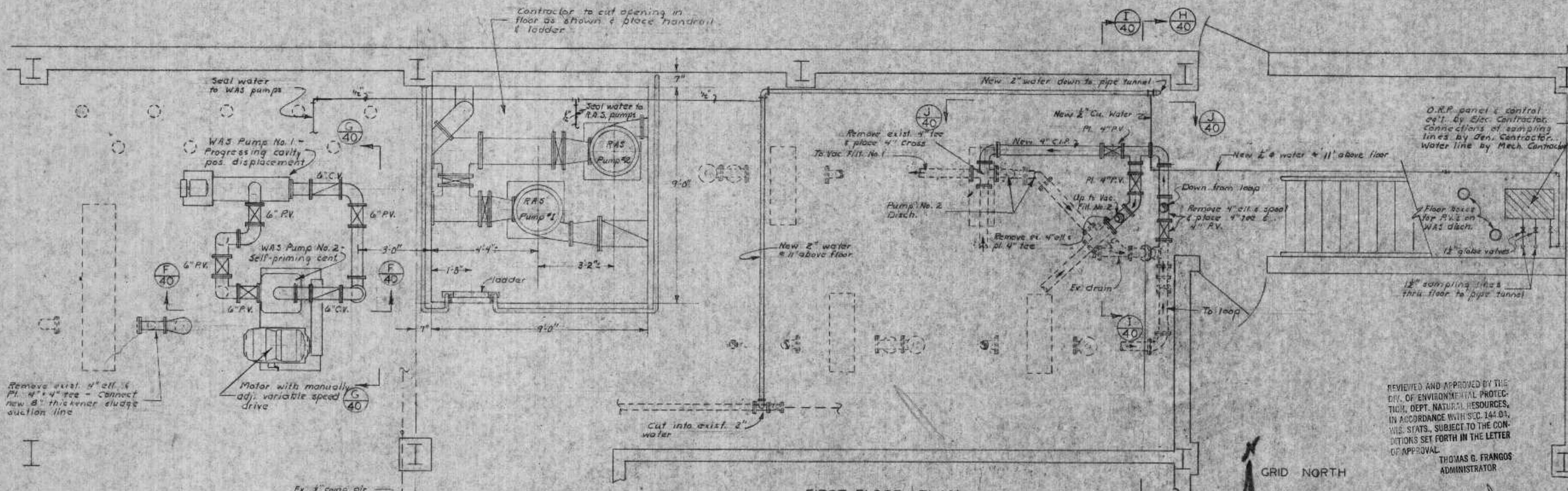
REVISIONS	
DESIGN	1/1
DRAWN	1/1
SURVEY	1/1
APPROVED	1/1

BONESTROO, ROSENE, ANDERLIK & ASSOC., INC.
ST. PAUL, MINNESOTA

SUPERIOR, WISCONSIN
DATE: FEBRUARY 2, 1971 COMM. 6888A

EXIST. SLUDGE PUMPING

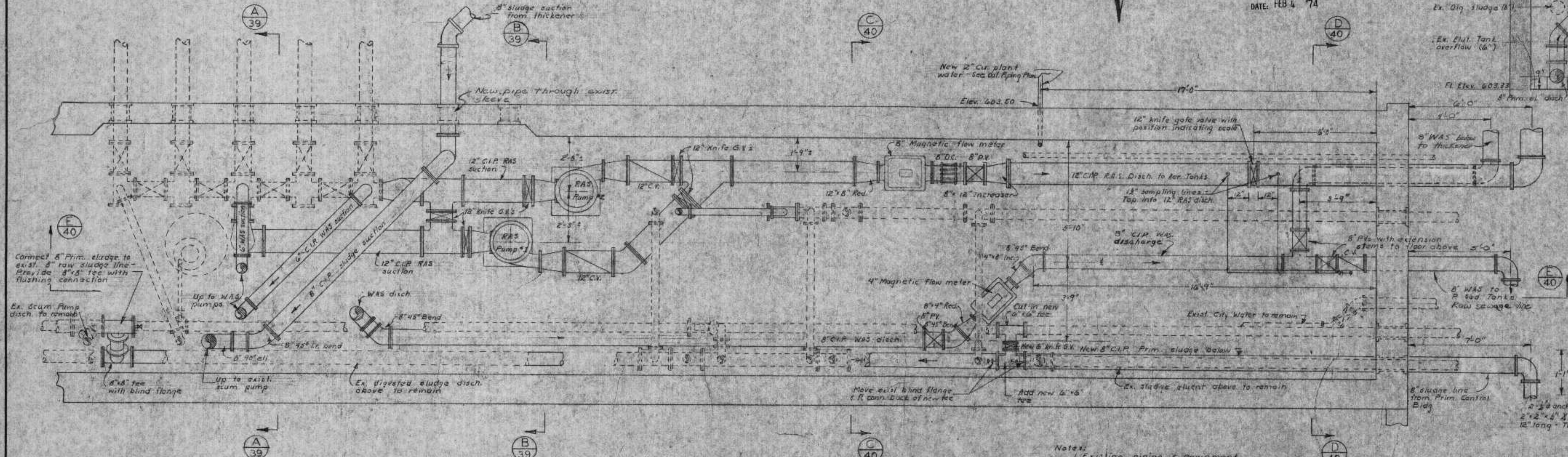
38
84



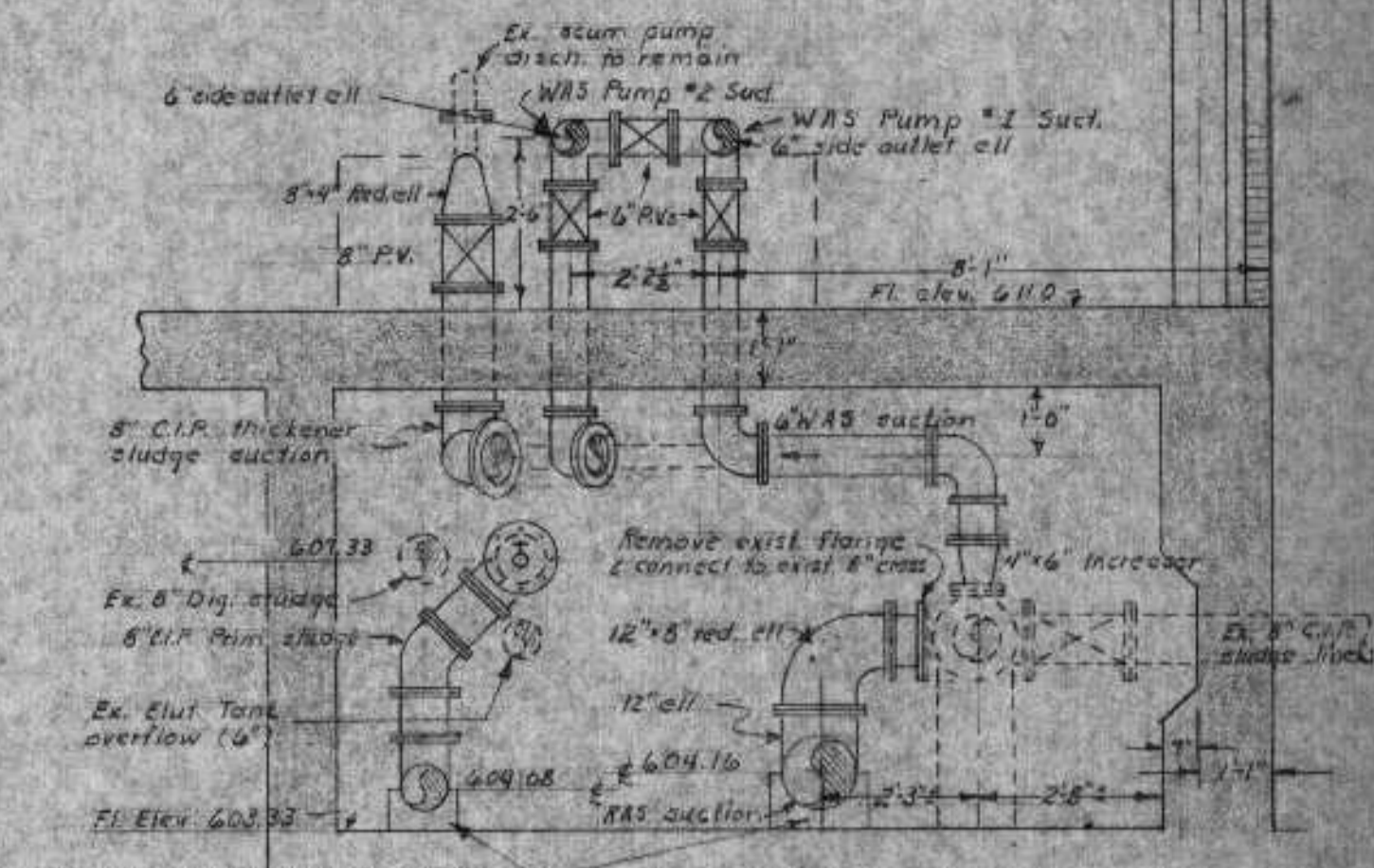
FIRST FLOOR PLAN
Scale: 3/8" = 1'-0"

REVIEWED AND APPROVED BY THE
DIV. OF ENVIRONMENTAL PROTECTION,
DEPT. NATURAL RESOURCES,
IN ACCORDANCE WITH SEC. 141.04,
WIS. STATS., SUBJECT TO THE CONDITIONS SET FORTH IN THE LETTER
OF APPROVAL
THOMAS G. FRANGOS
ADMINISTRATOR

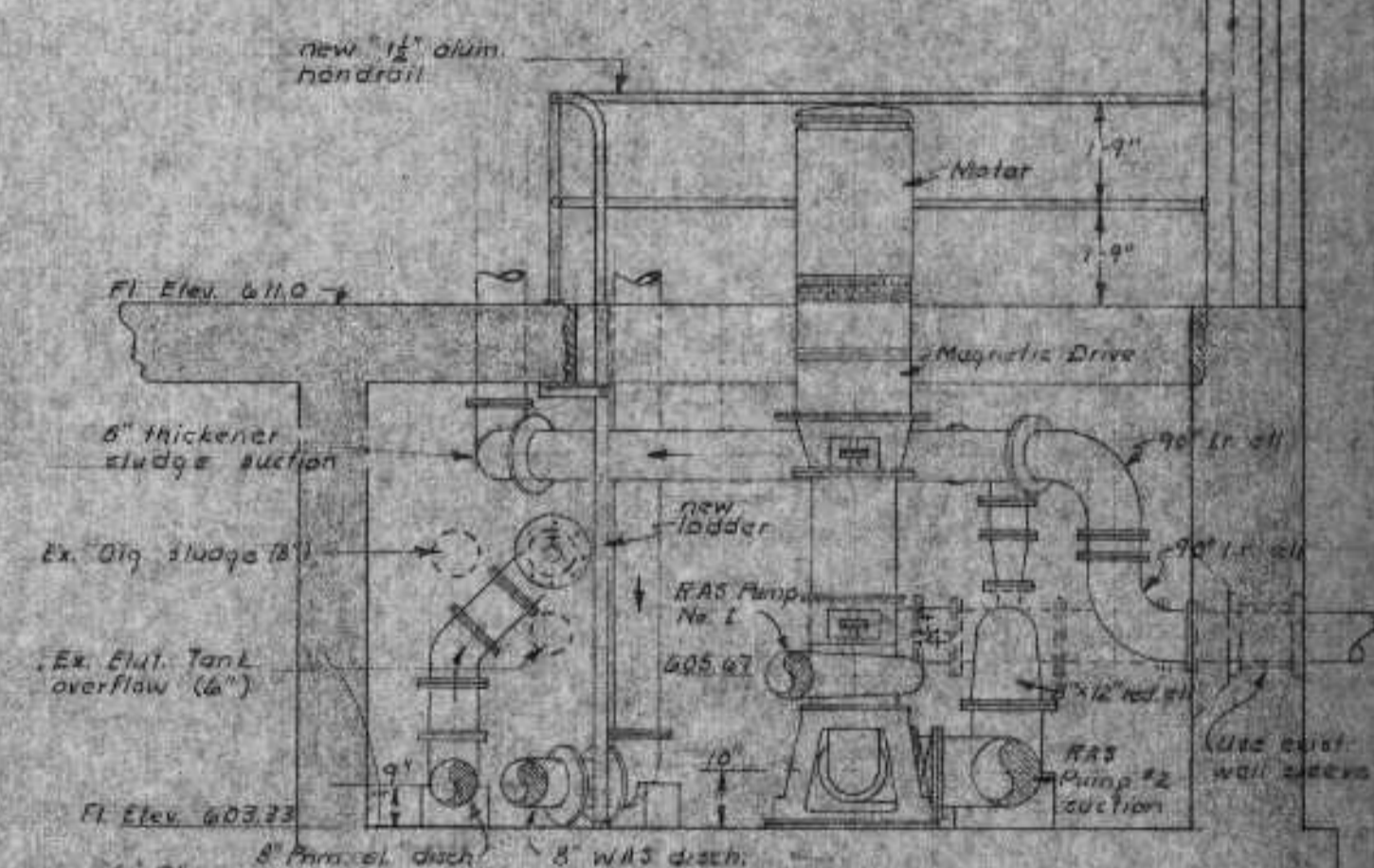
APPROVAL NO.
72 355
DATE: FEB 4 '74



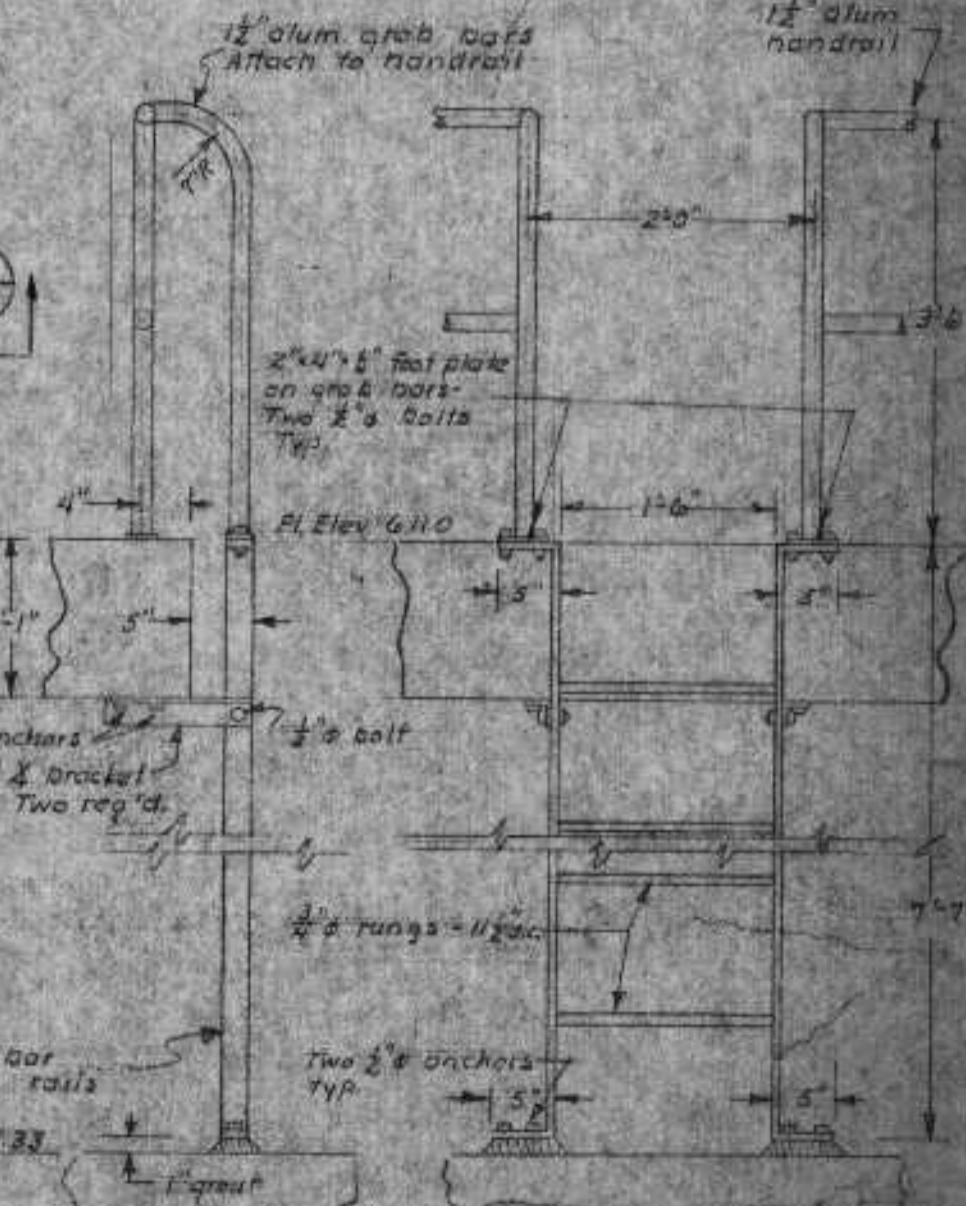
PIPE TUNNEL
Scale 3/8" = 1'-0"



SECTION A-A
Scale: 3/8" = 1'-0"

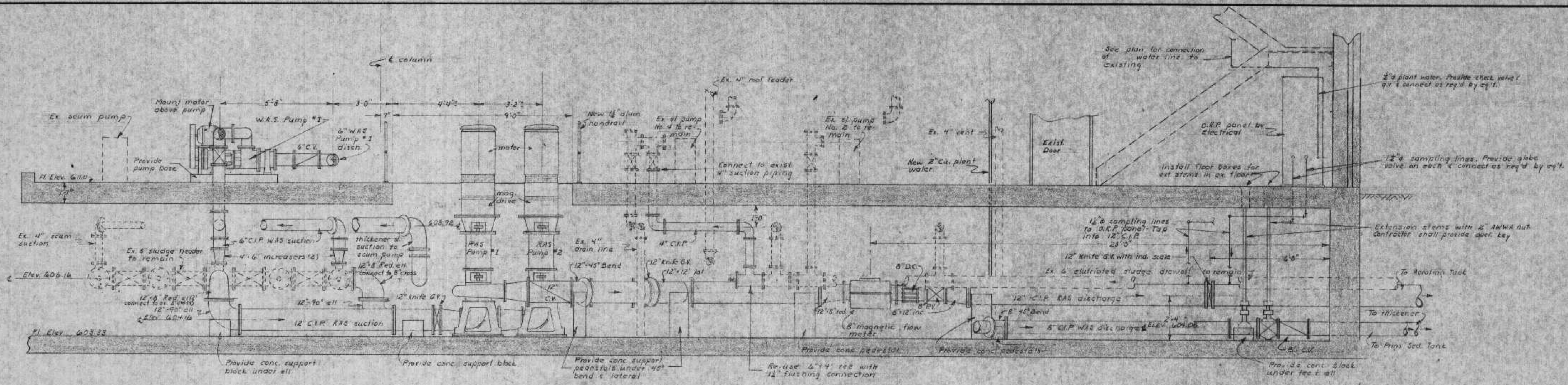


SECTION B-B
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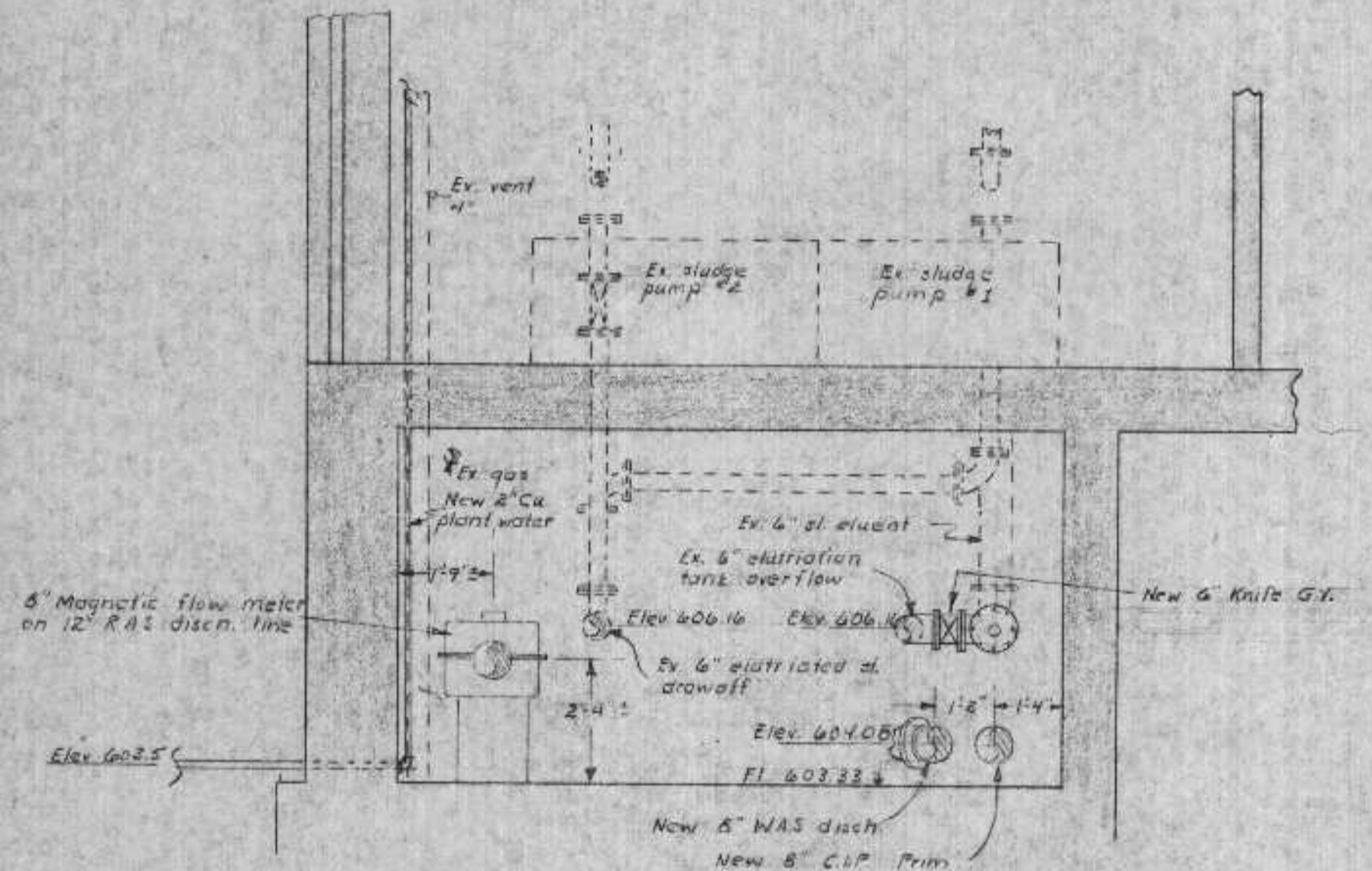


NEW LADDER DETAIL
Scale: 3/8" = 1'-0"

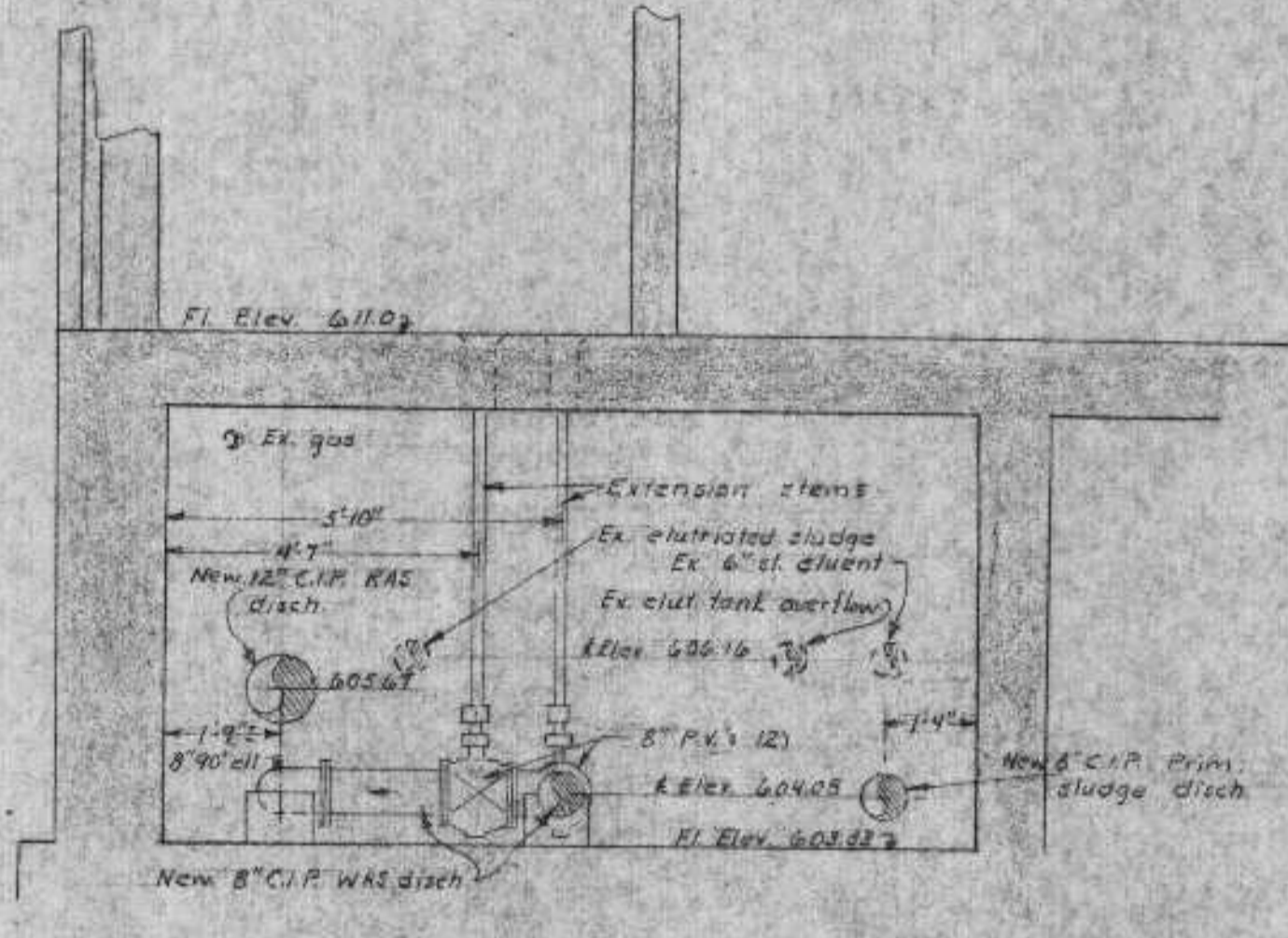
- Notes:
- 1. Existing piping & equipment shown with dashed lines.
 - 2. All dimensions to be verified by Contractor in the field.
 - 3. Contractor shall provide new piping generally as shown including fittings to match existing piping, whether shown or not, and to achieve the desired result.



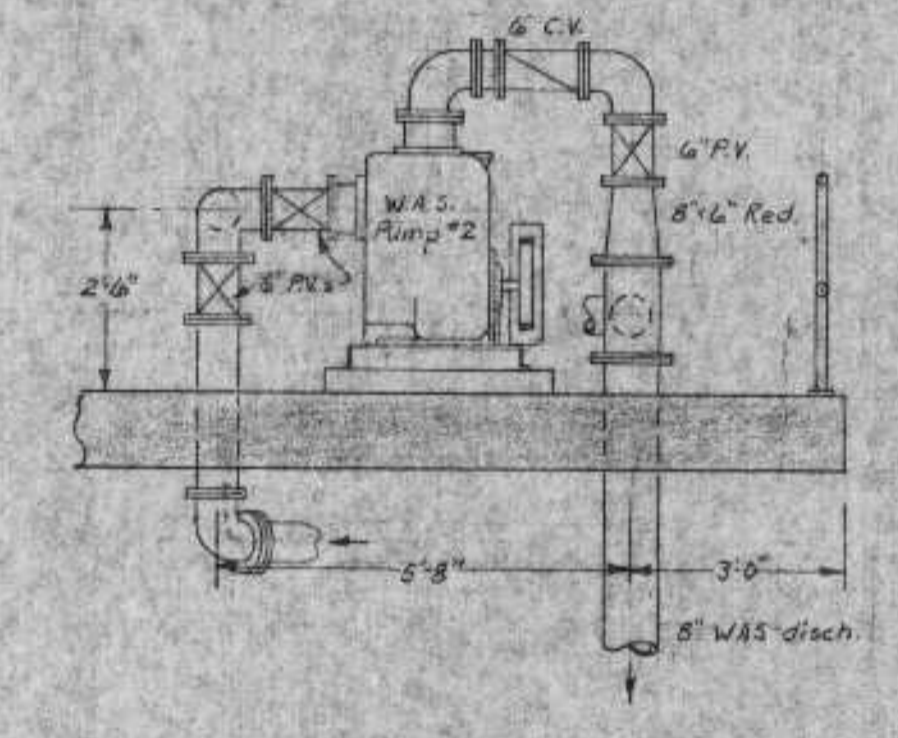
SECTION E-E
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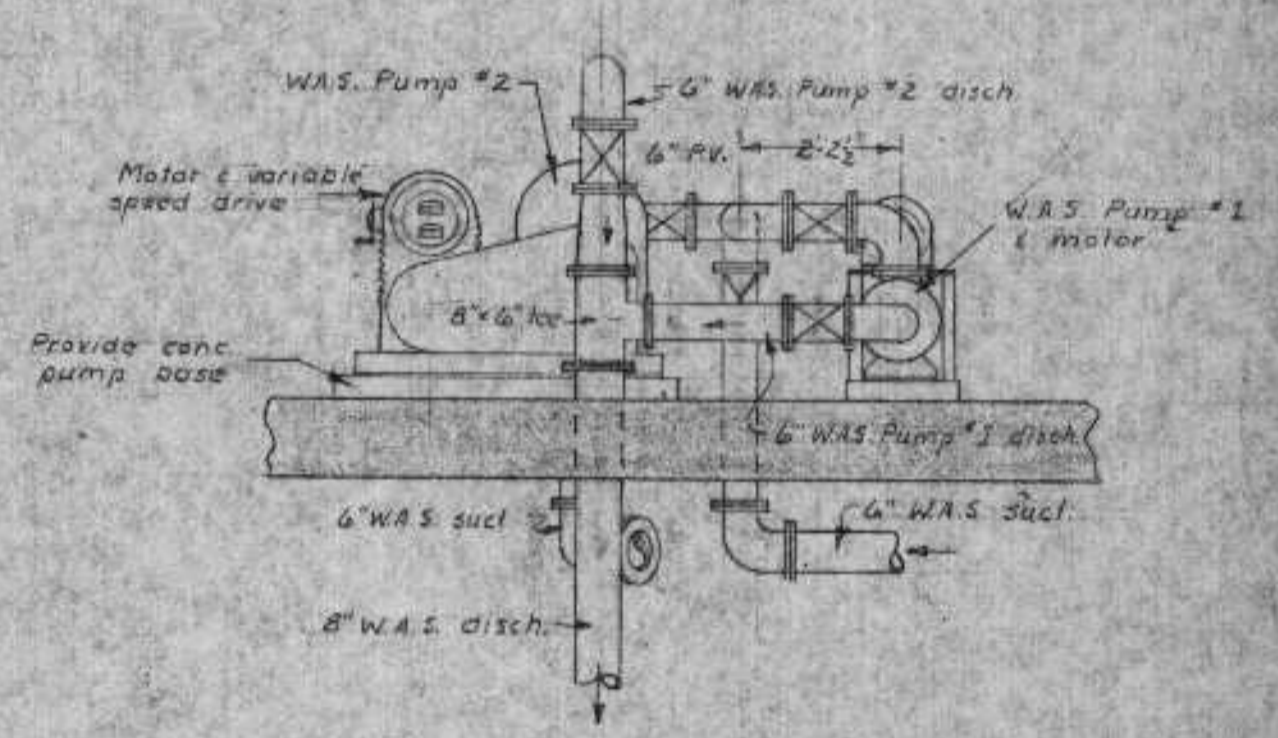
SECTION C-C
Scale: 1/8" = 1'-0"



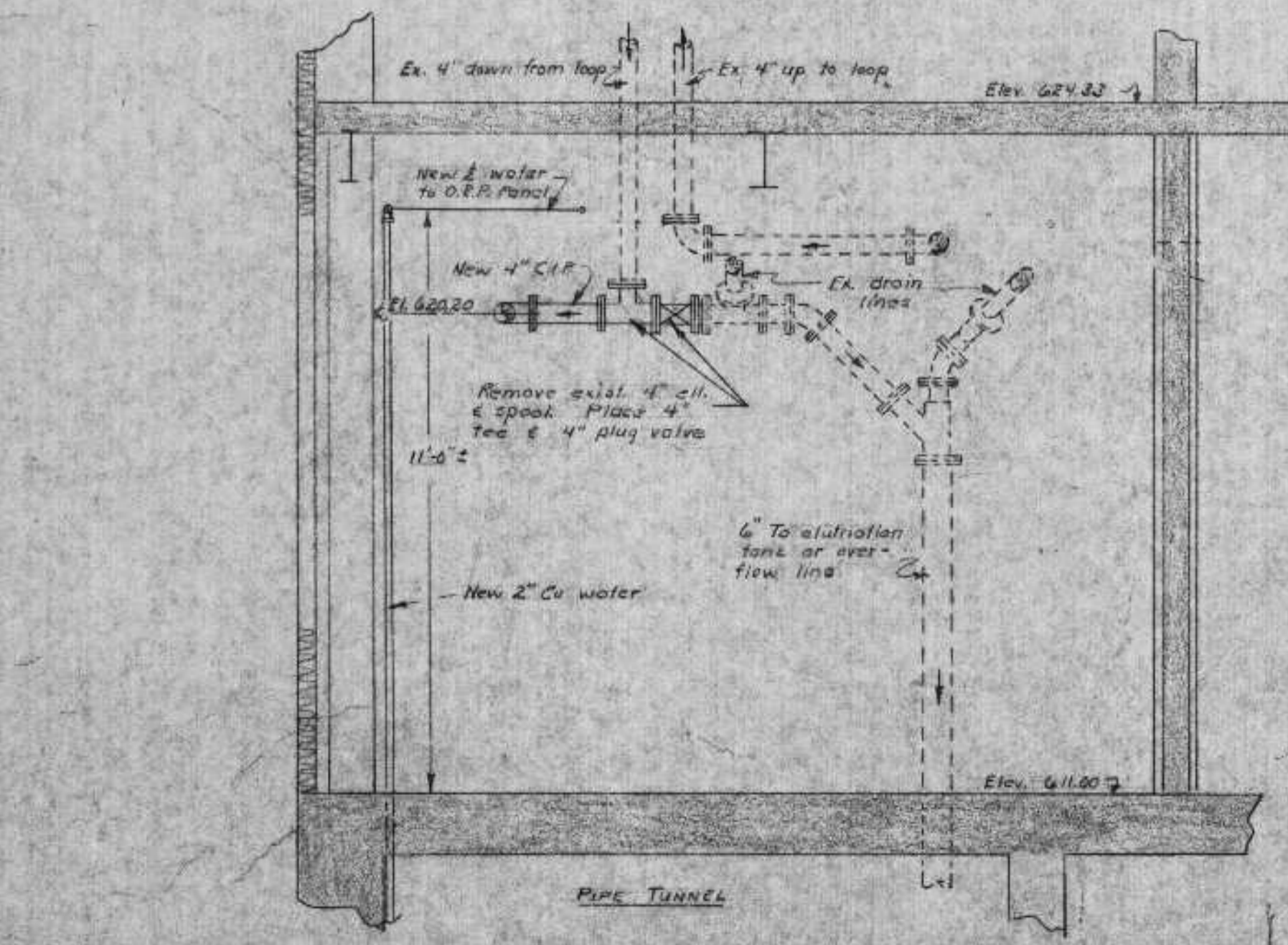
SECTION D-D
Scale: 1/8" = 1'-0"



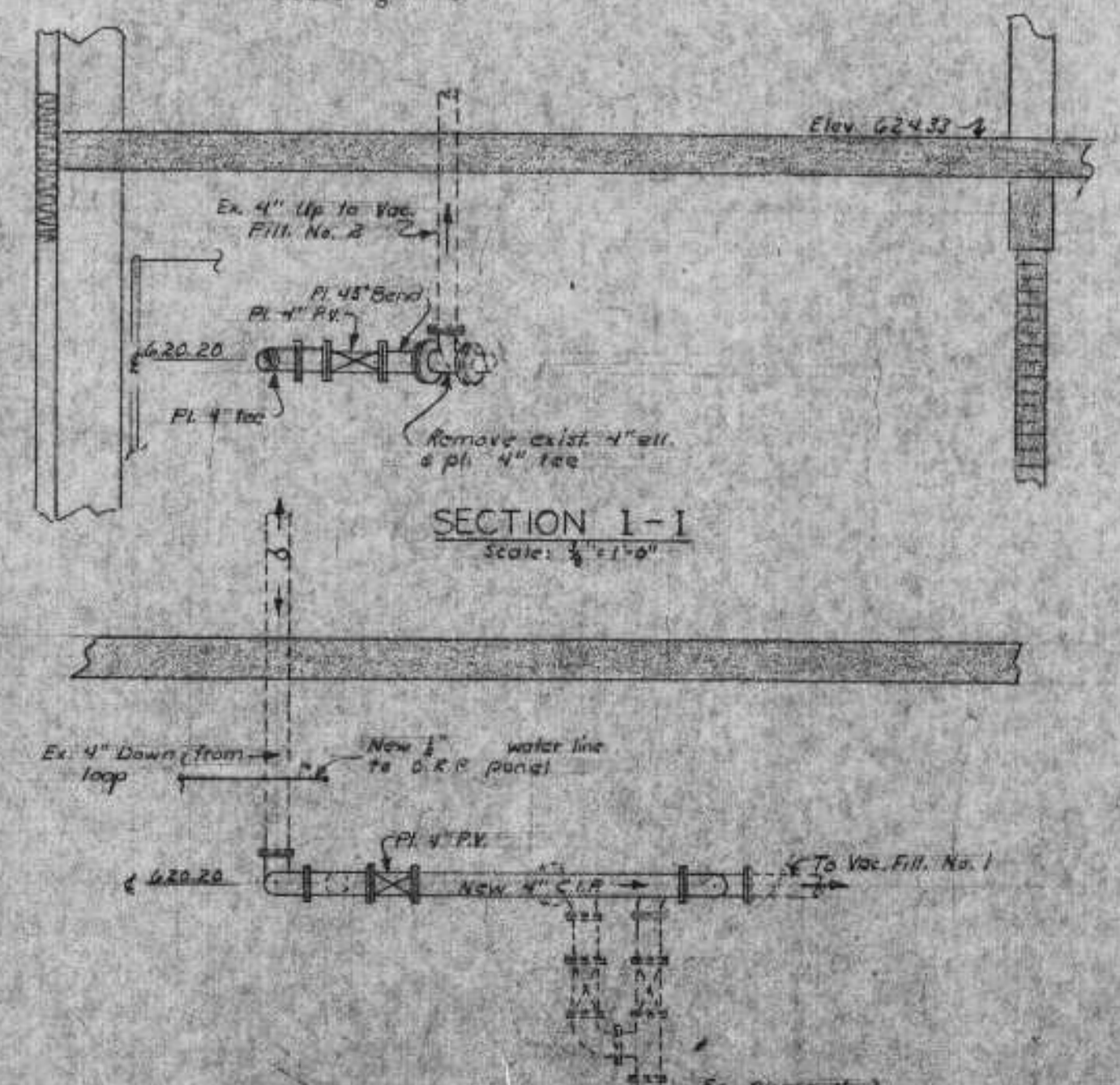
SECTION F-F
Scale: 1/8" = 1'-0"



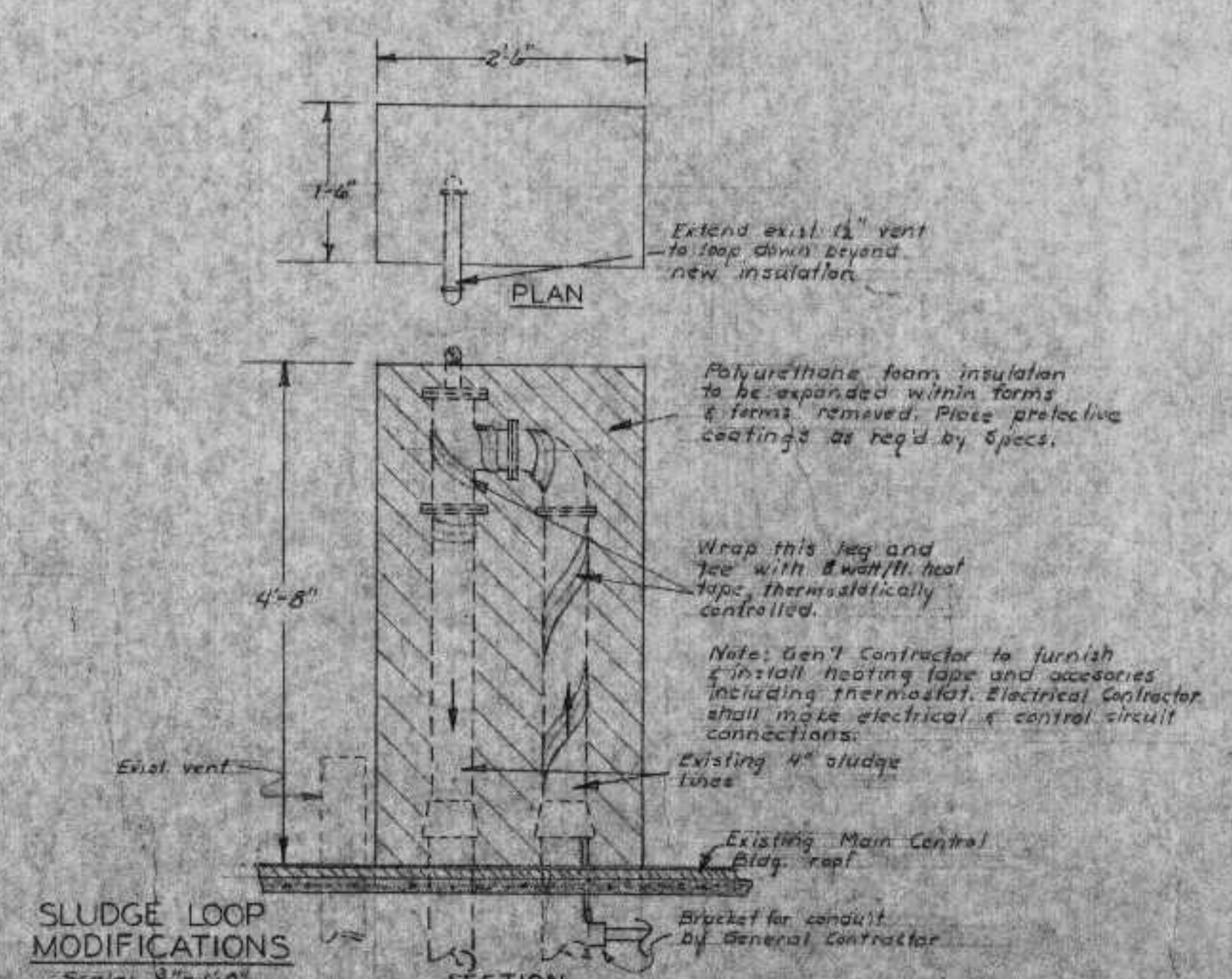
SECTION G-G
Scale: 1/8" = 1'-0"



SECTION H-H
Scale: 1/8" = 1'-0"



SECTION I-I
Scale: 1/8" = 1'-0"



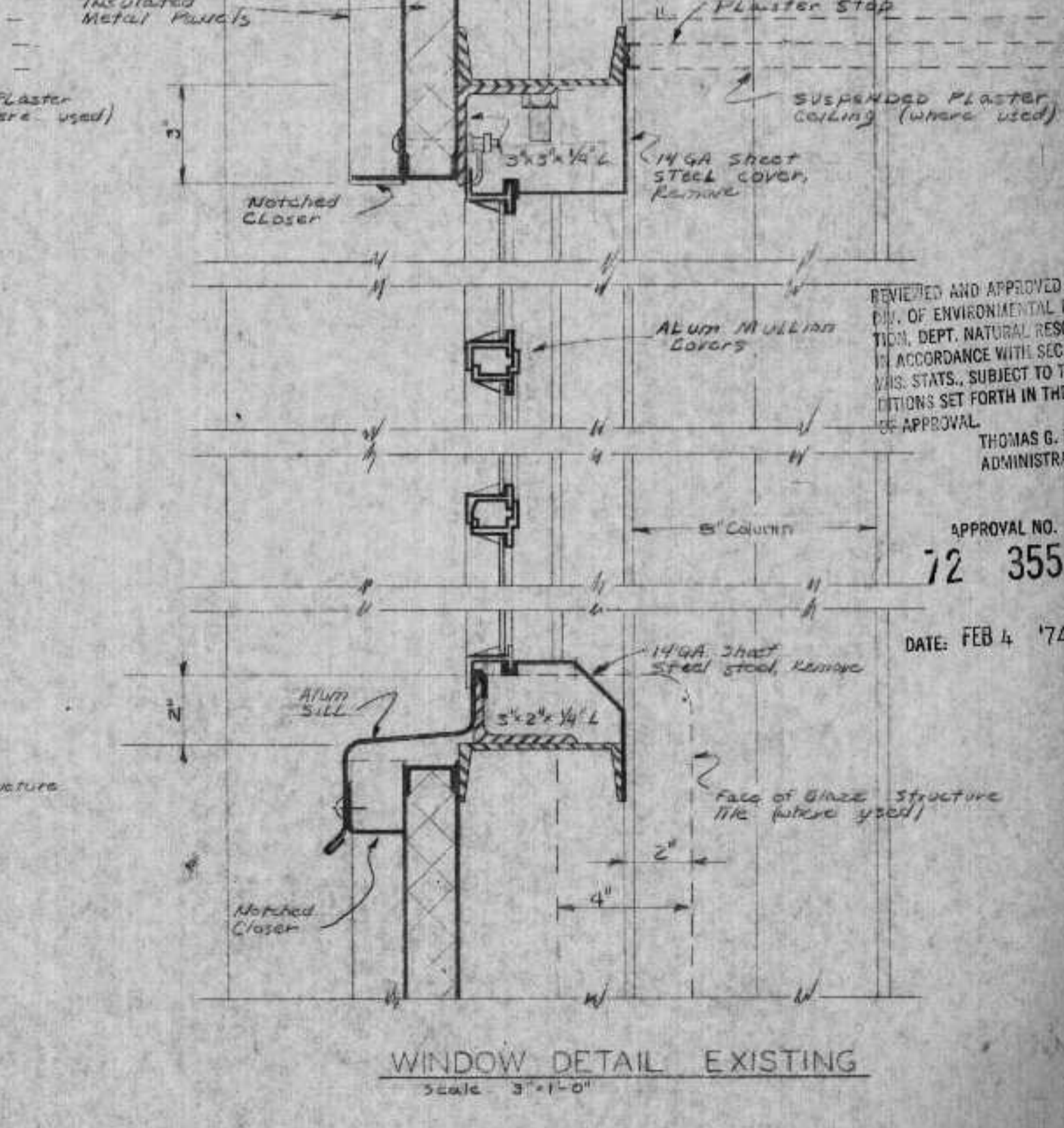
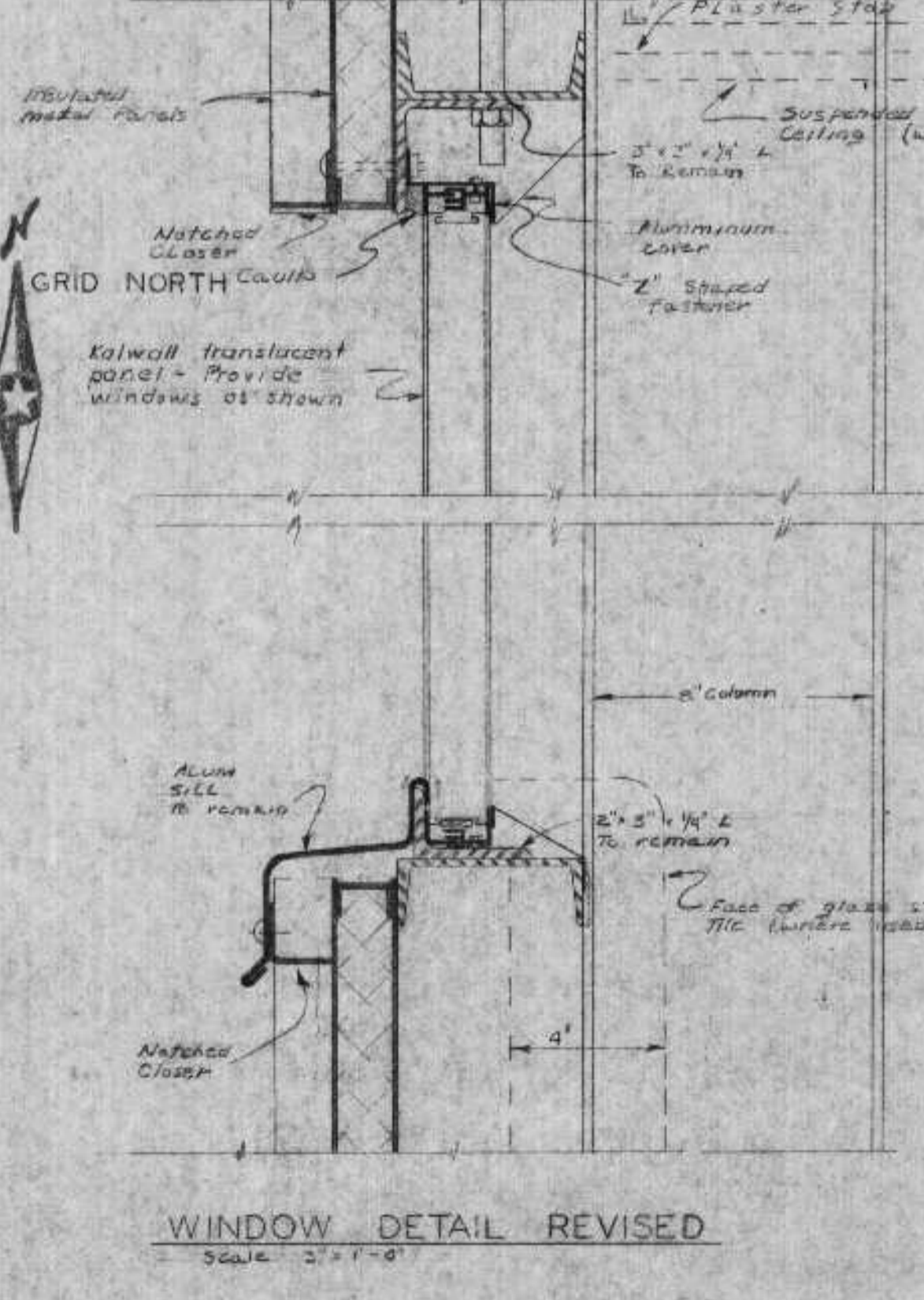
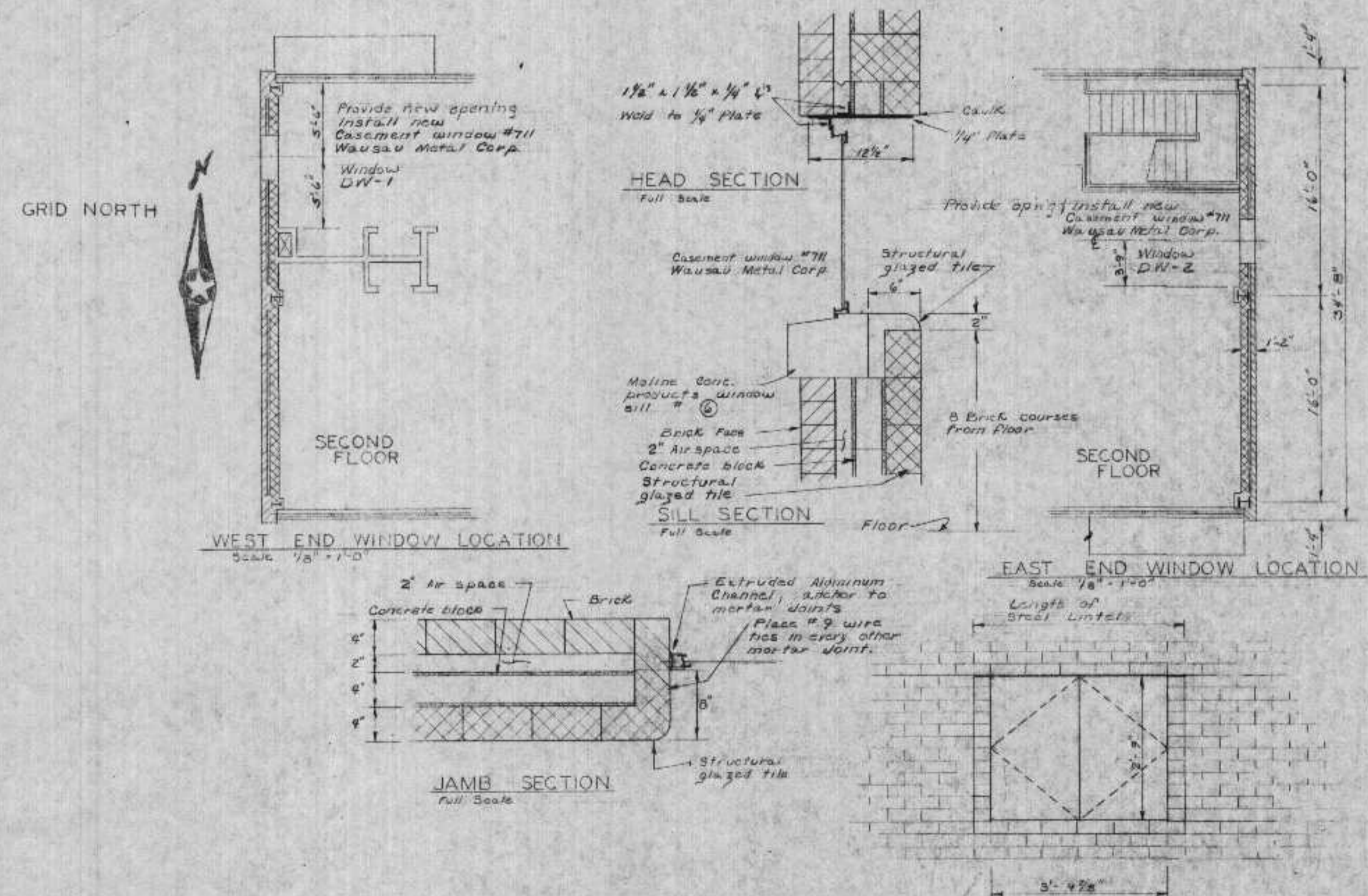
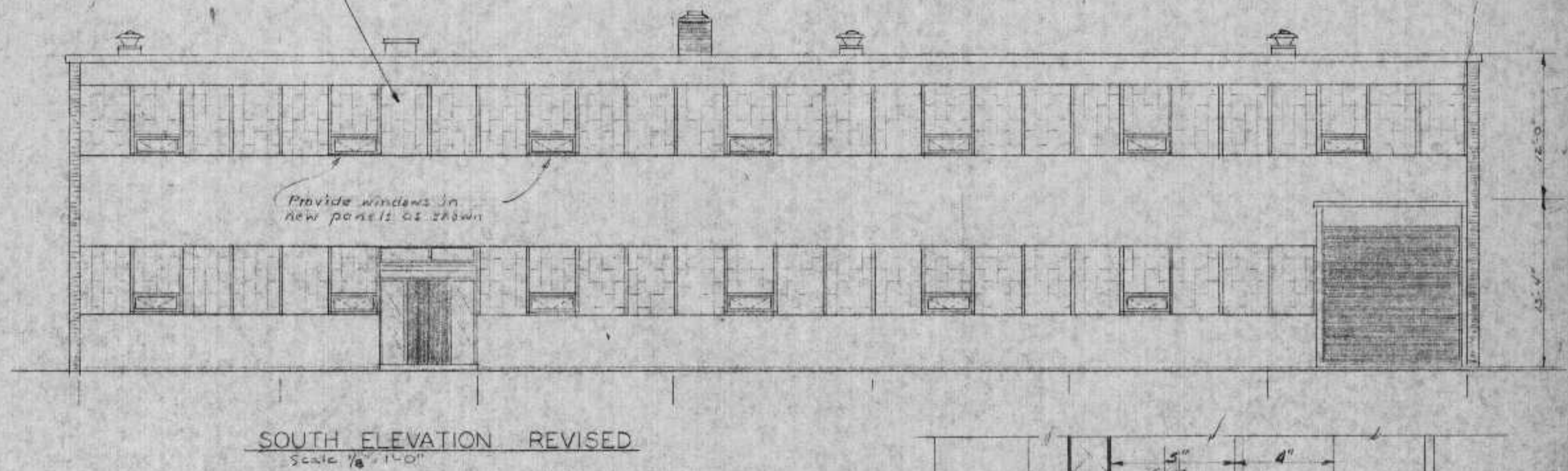
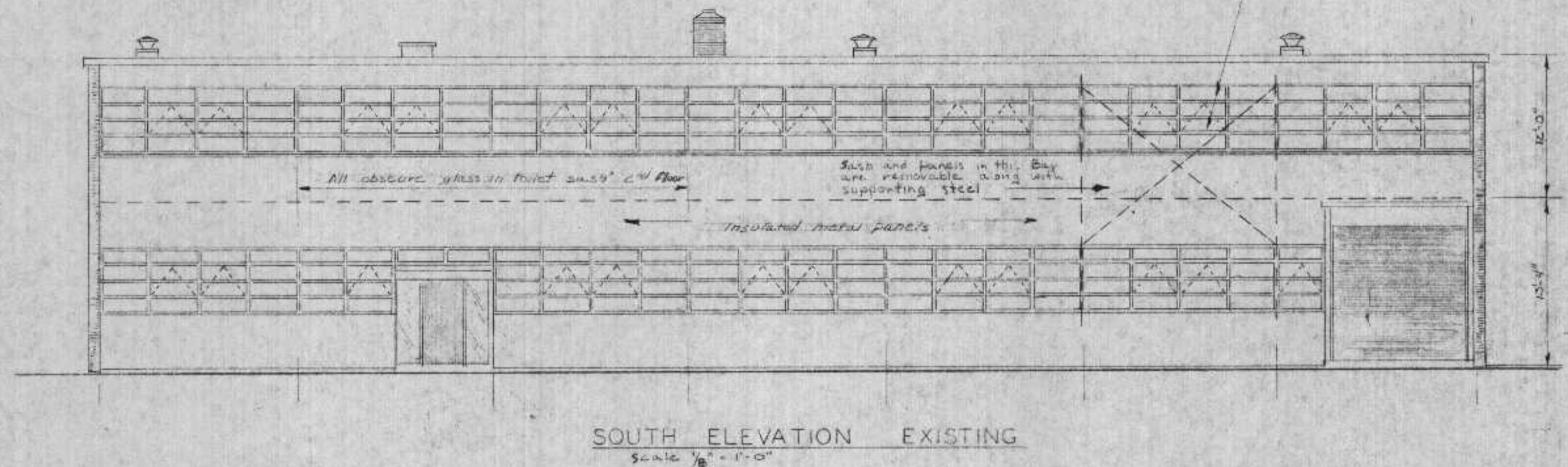
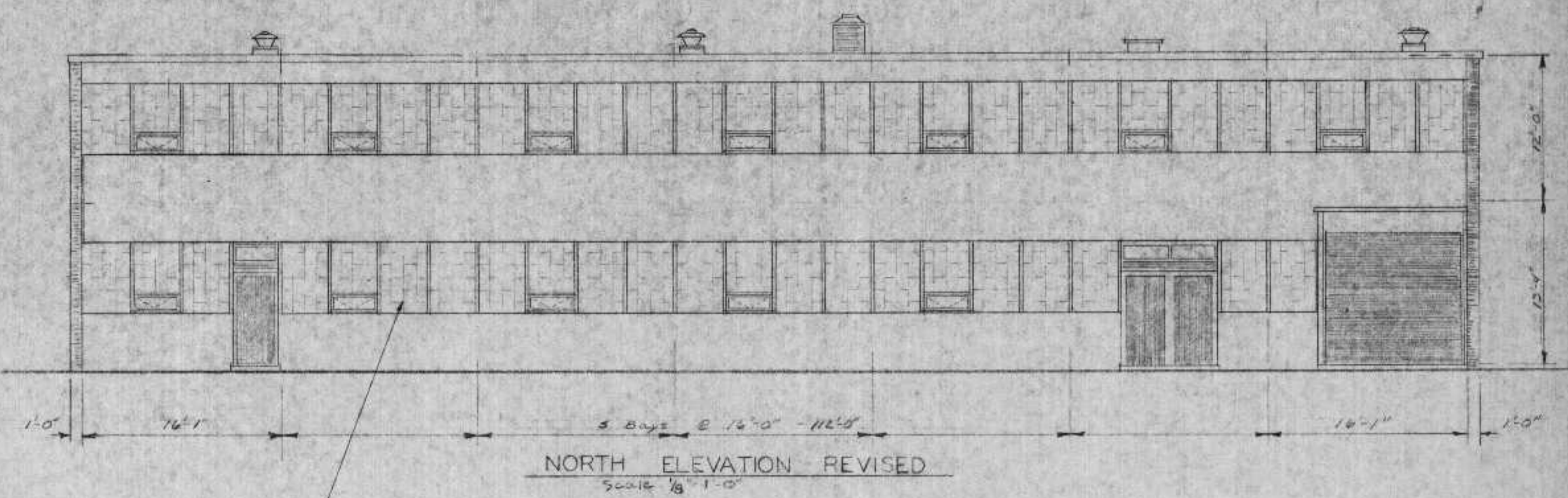
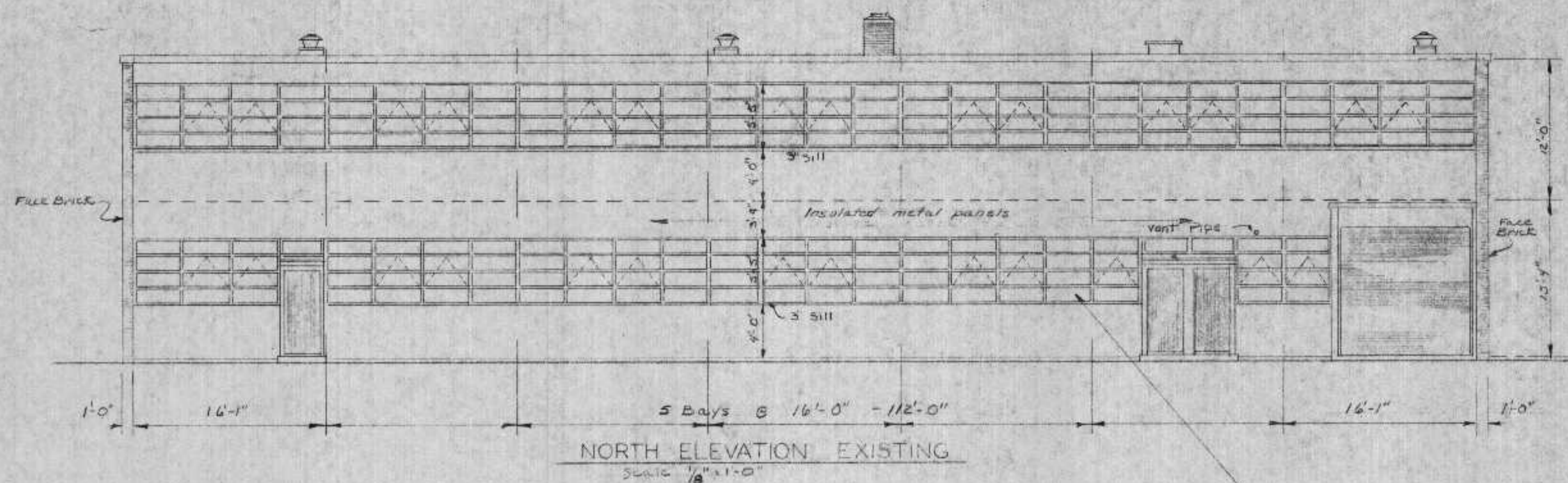
SECTION J-J
Scale: 1/8" = 1'-0"

REVIEWED AND APPROVED BY THE
DIR. OF ENVIRONMENTAL PROTECTION,
DEPT. NATURAL RESOURCES,
IN ACCORDANCE WITH SEC. 144.01,
WIS. STATS., SUBJECT TO THE CON-
DITIONS SET FORTH IN THE LETTER
OF APPROVAL.
THOMAS G. FRANGOS
ADMINISTRATOR

APPROVAL NO.
72 355

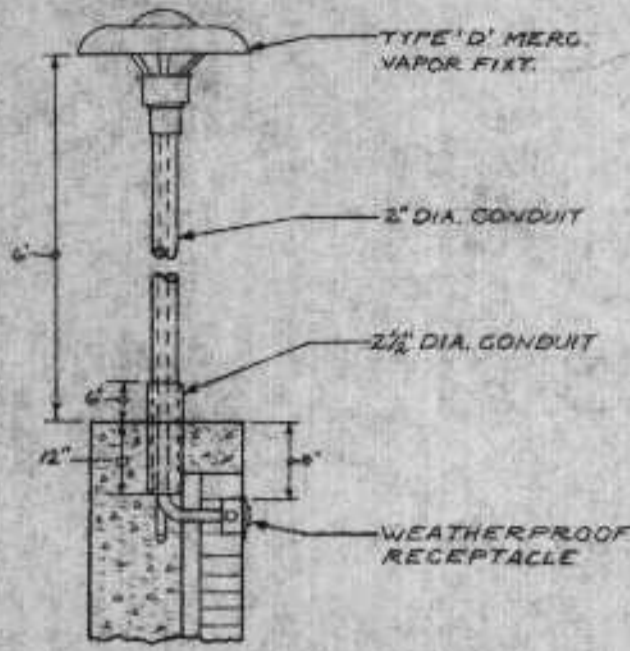
DATE: FEB 4 '74

DNR JAN 3 1974

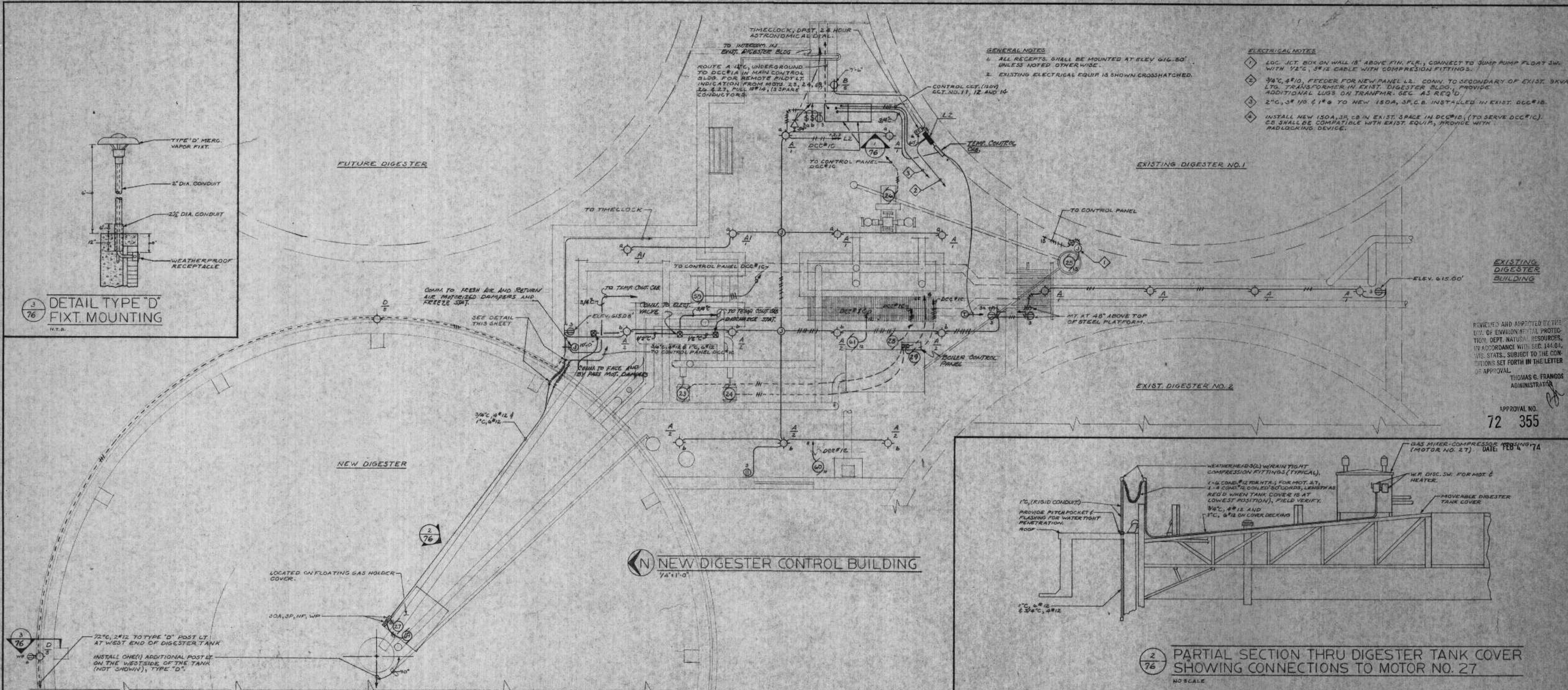


REVIEWED AND APPROVED BY THE
DIR. OF ENVIRONMENTAL PROTECTION,
DEPT. NATURAL RESOURCES,
IN ACCORDANCE WITH SEC. 144.03,
WIS. STAT., SUBJECT TO THE CONDITIONS SET FORTH IN THE LETTER OF APPROVAL.
THOMAS G. FRANCOIS
ADMINISTRATOR

APPROVAL NO. 72 355
DATE: FEB 4 '74



3
76
DETAIL TYPE "D"
FIXT. MOUNTING
N.T.S.

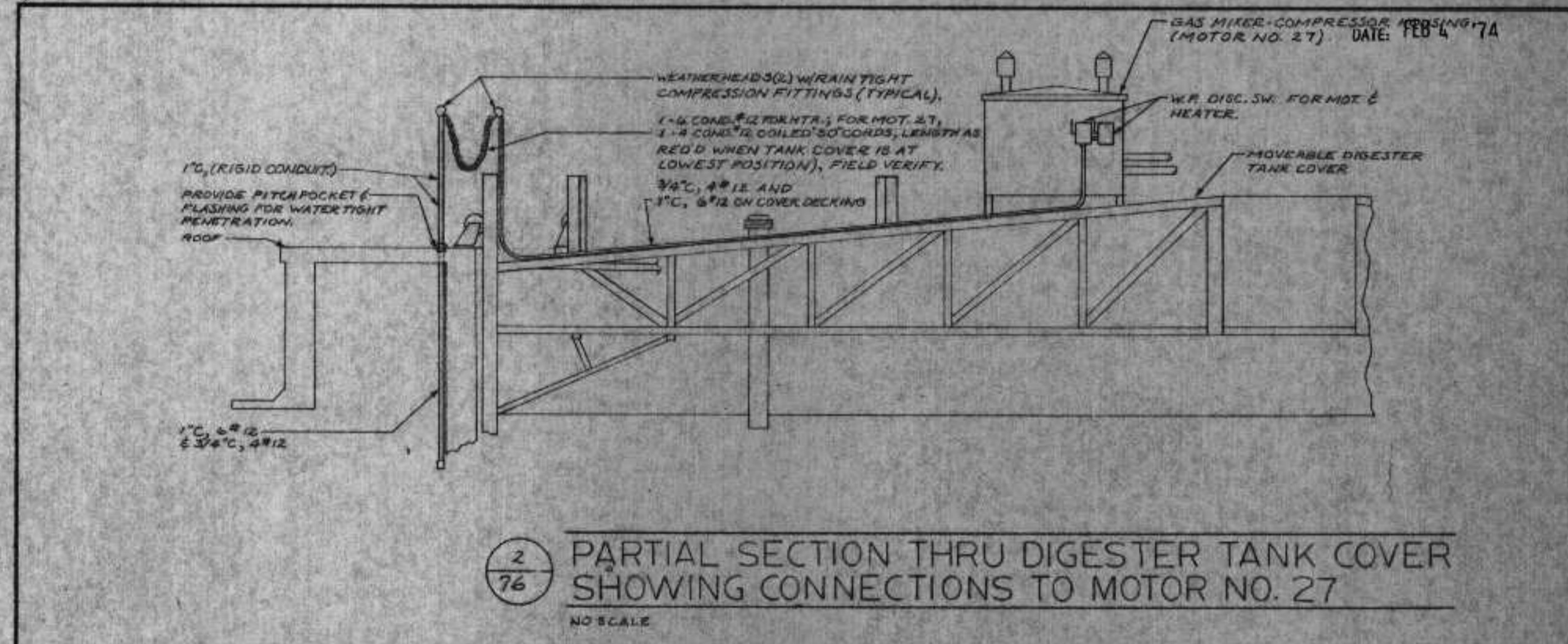


GENERAL NOTES
 1. ALL RECEP.TS. SHALL BE MOUNTED AT ELEV. 616.80' UNLESS NOTED OTHERWISE.
 2. EXISTING ELECTRICAL EQUIP. IS SHOWN CROSSHATCHED.

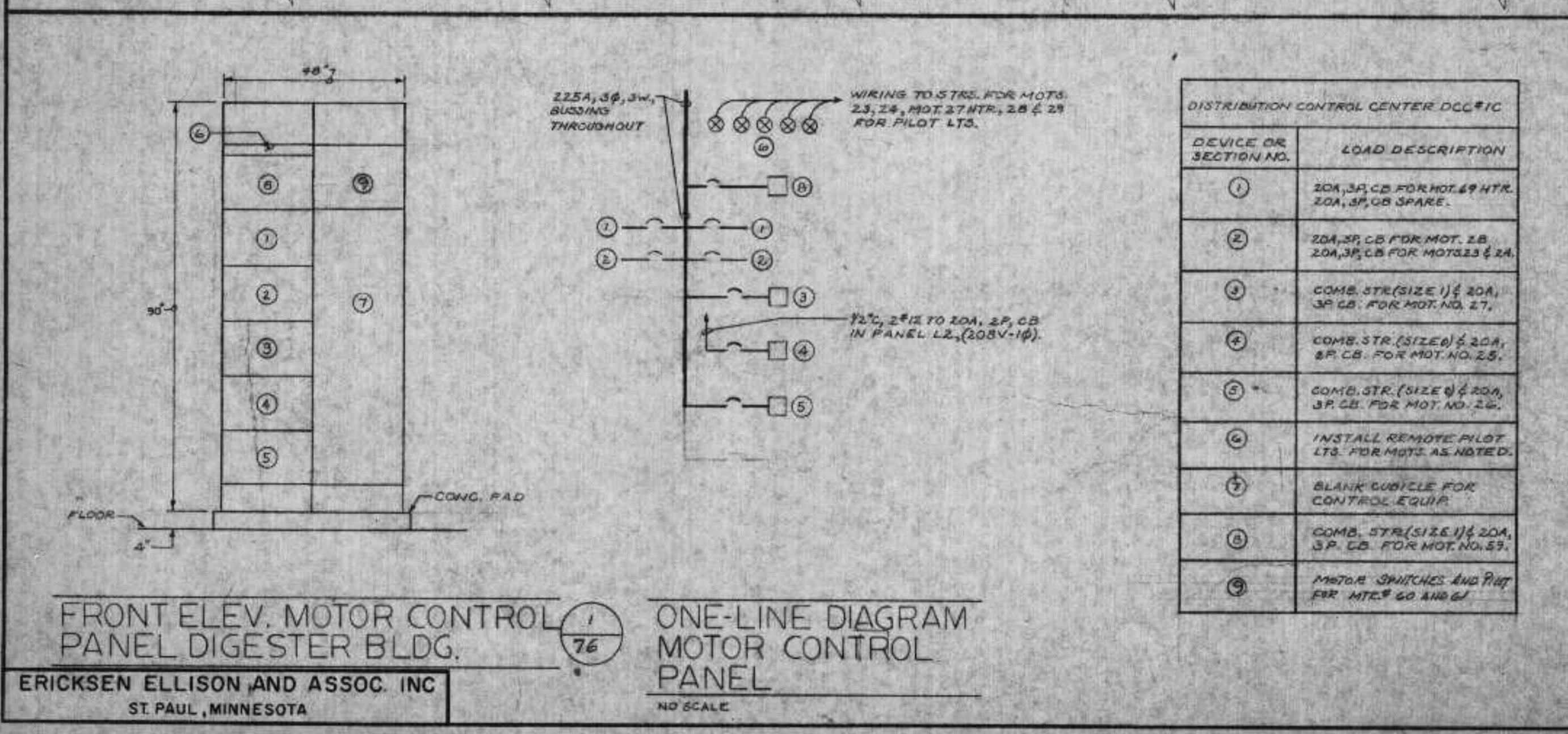
ELECTRICAL NOTES
 1. LOC. JCT. BOX ON WALL 18" ABOVE FIN. FLR.; CONNECT TO JUMP PUMP FLOAT SW. WITH 1/2" C, 3/4" CABLE WITH COMPRESSION FITTINGS.
 2. 3/4" C, 4#10, FEEDER FOR NEW PANEL L2. CONN. TO SECONDARY OF EXIST. 30KVA LTR. TRANSFORMER IN EXIST. DIGESTER BLDG.; PROVIDE ADDITIONAL LOCK ON TRAFFER. SEC. AS REQ'D.
 3. 2" C, 3# 1/2 1#6 TO NEW 150A, 3P.C.B. INSTALLED IN EXIST. DCC#12.
 4. INSTALL NEW 150A, 3P.C.B. IN EXIST. SPACE IN DCC#12. (TO SERVE DCC#12). CB SHALL BE COMPATIBLE WITH EXIST. EQUIP.; PROVIDE WITH PADLOCKING DEVICE.

EXISTING DIGESTER BUILDING
 REVIEWED AND APPROVED BY THE DIV. OF ENVIRONMENTAL PROTECTION, DEPT. NATURAL RESOURCES, IN ACCORDANCE WITH SEC. 141.04, WIS. STATS. SUBJECT TO THE CONDITIONS SET FORTH IN THE LETTER OF APPROVAL.
 THOMAS G. FRANGOS
 ADMINISTRATOR

APPROVAL NO.
 72 355

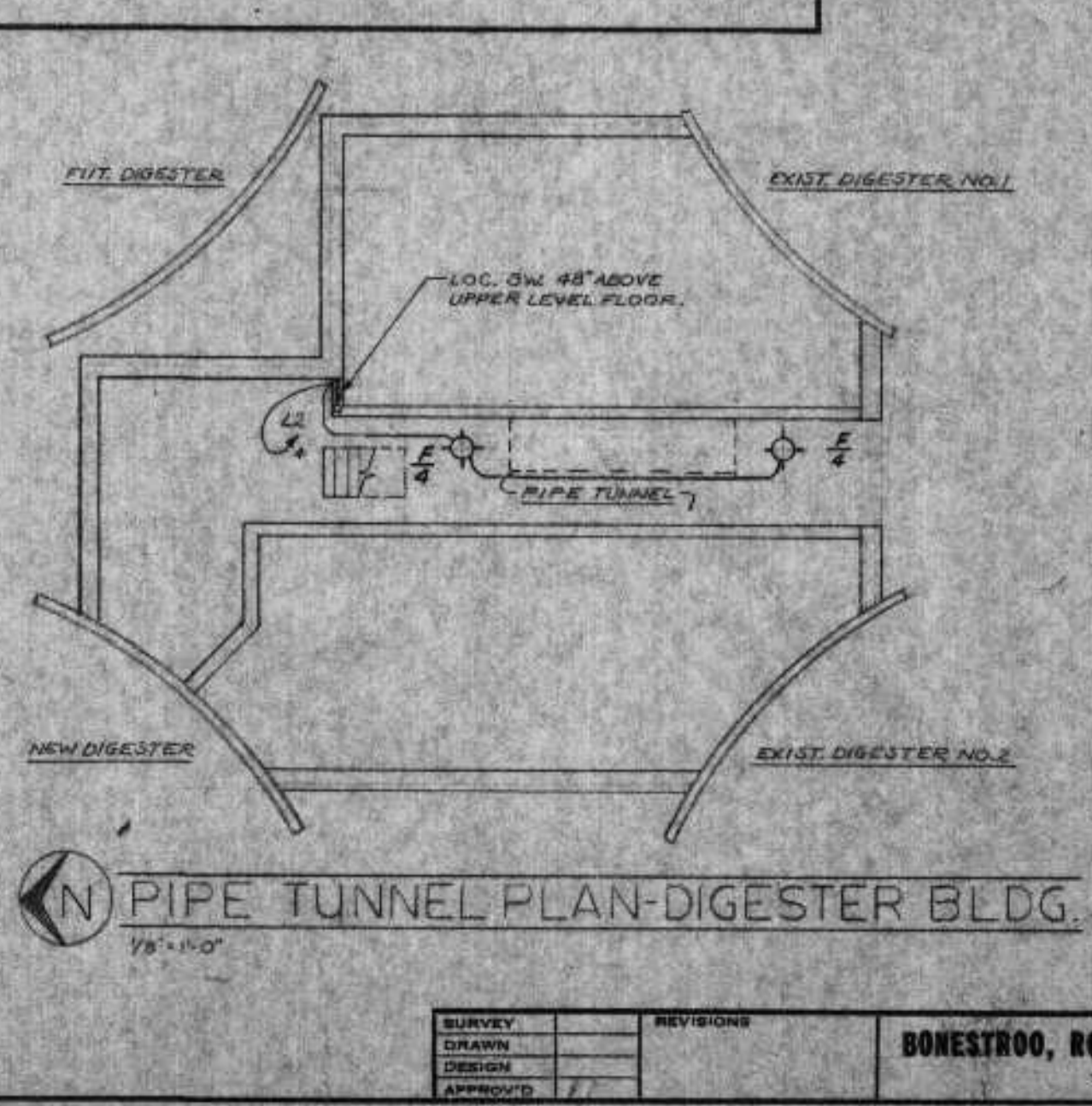


2
76
PARTIAL SECTION THRU DIGESTER TANK COVER
SHOWING CONNECTIONS TO MOTOR NO. 27
NO SCALE

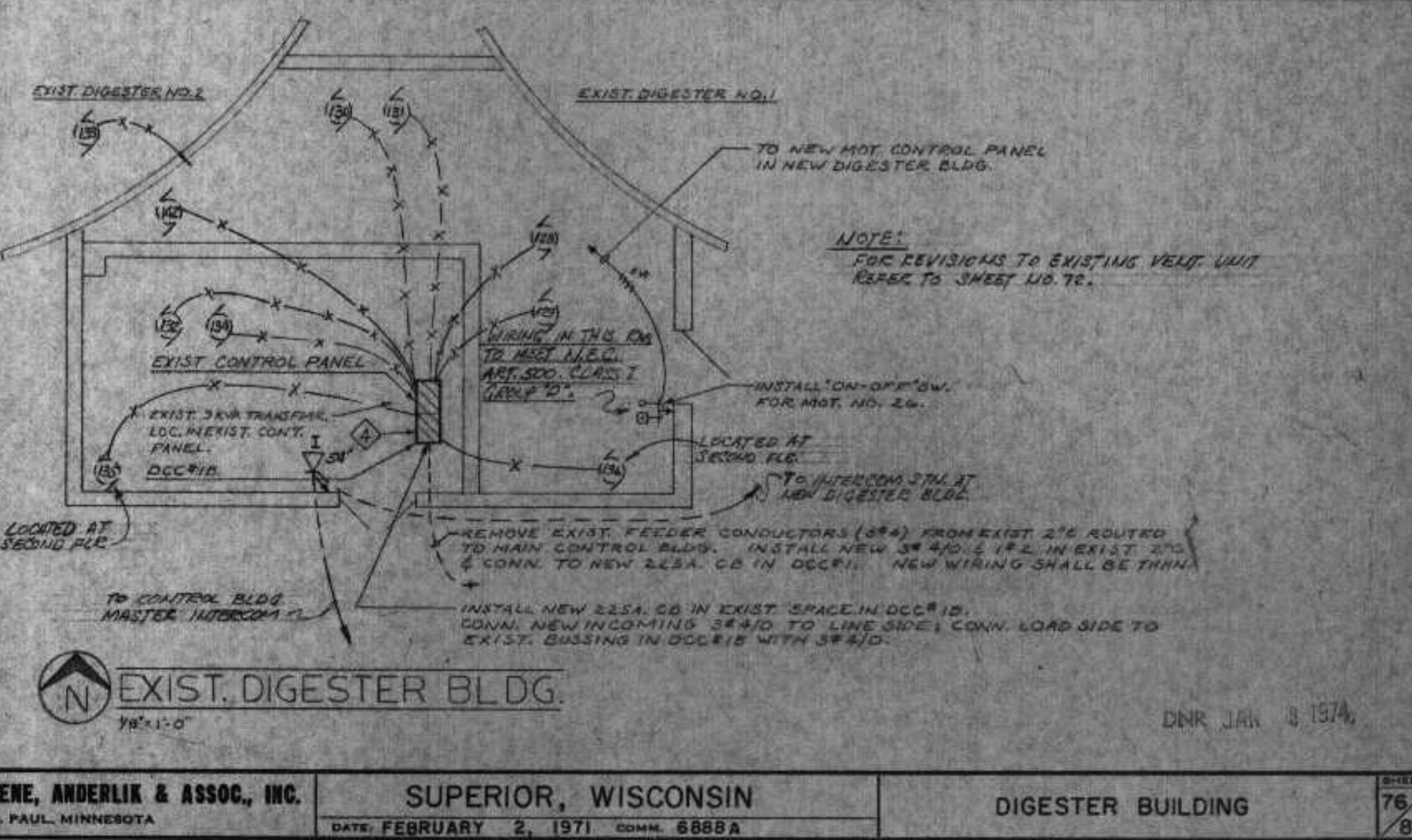


1
76
FRONT ELEV. MOTOR CONTROL PANEL DIGESTER BLDG.
 ONE-LINE DIAGRAM MOTOR CONTROL PANEL
 NO SCALE

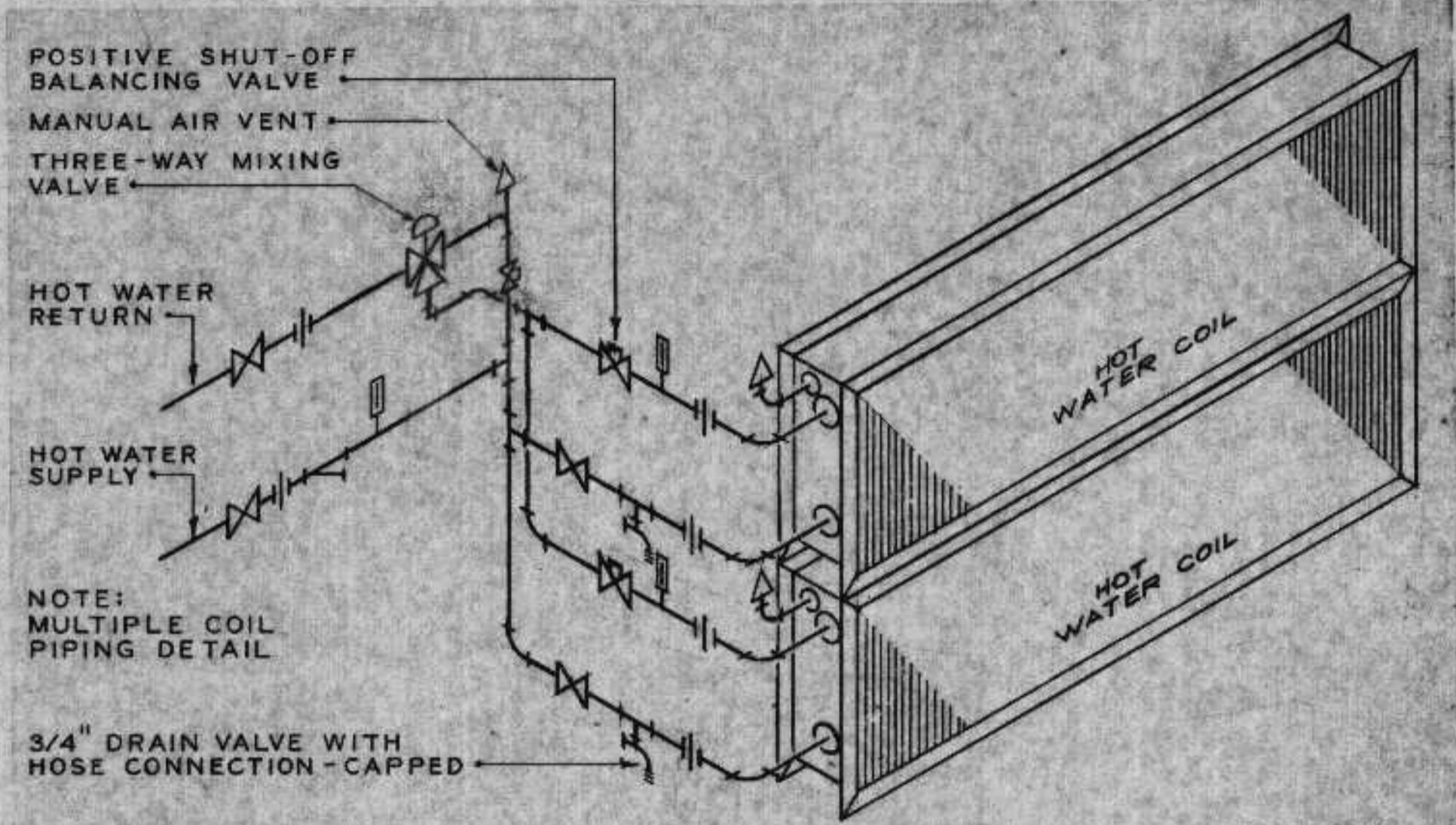
ERICKSEN ELLISON AND ASSOC. INC
 ST. PAUL, MINNESOTA



PIPE TUNNEL PLAN-DIGESTER BLDG.
 NO SCALE

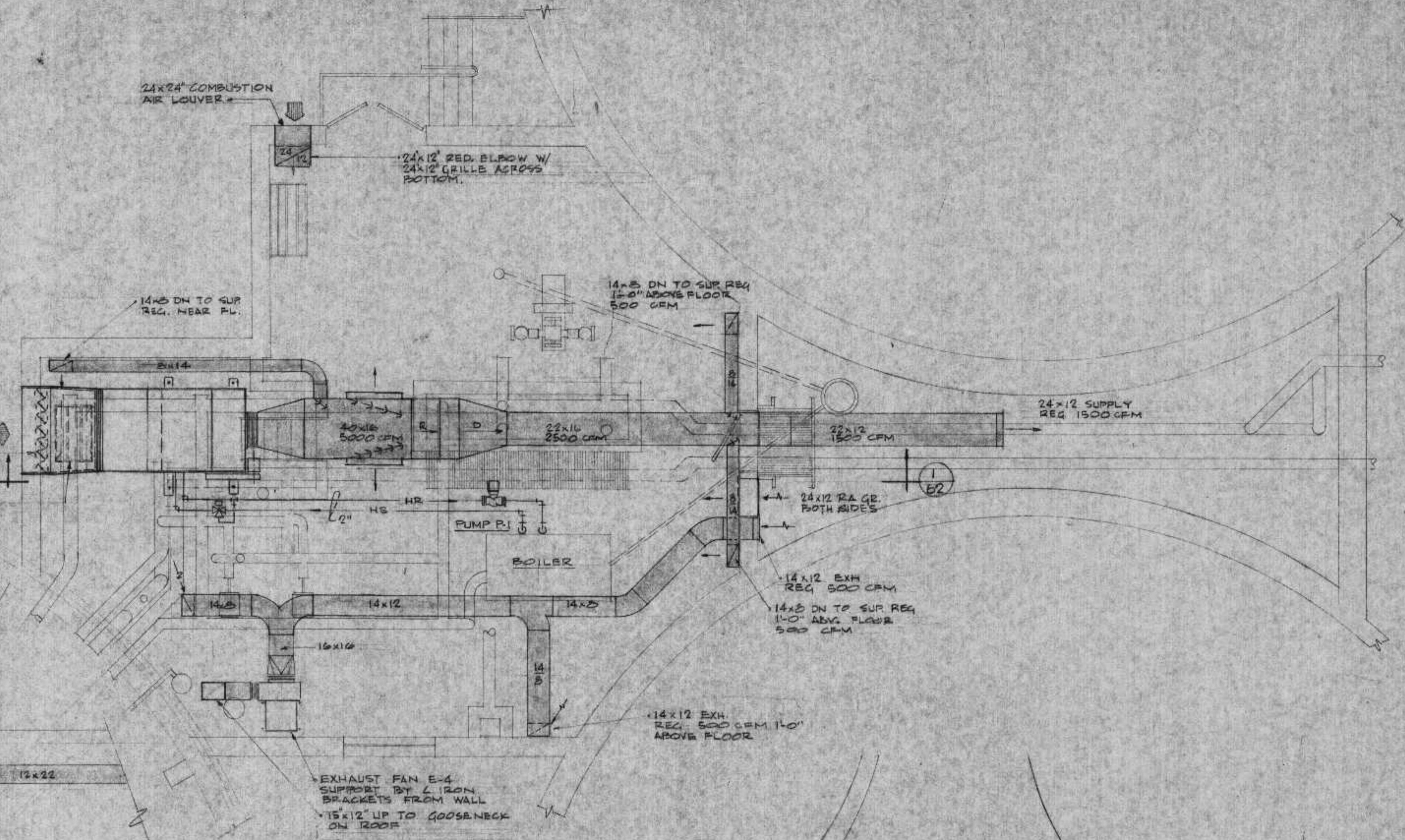


EXIST. DIGESTER BLDG.
 NO SCALE

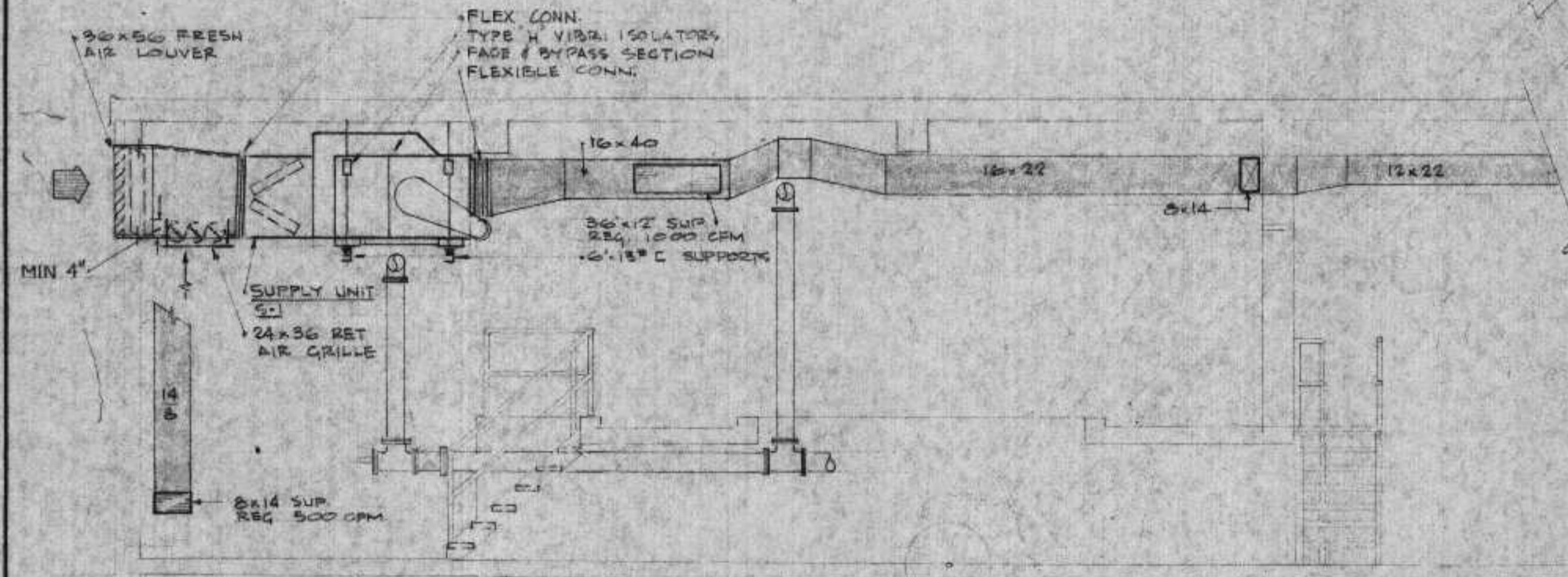


HOT WATER COIL PIPING DETAIL
(THREE-WAY MIXING VALVE)

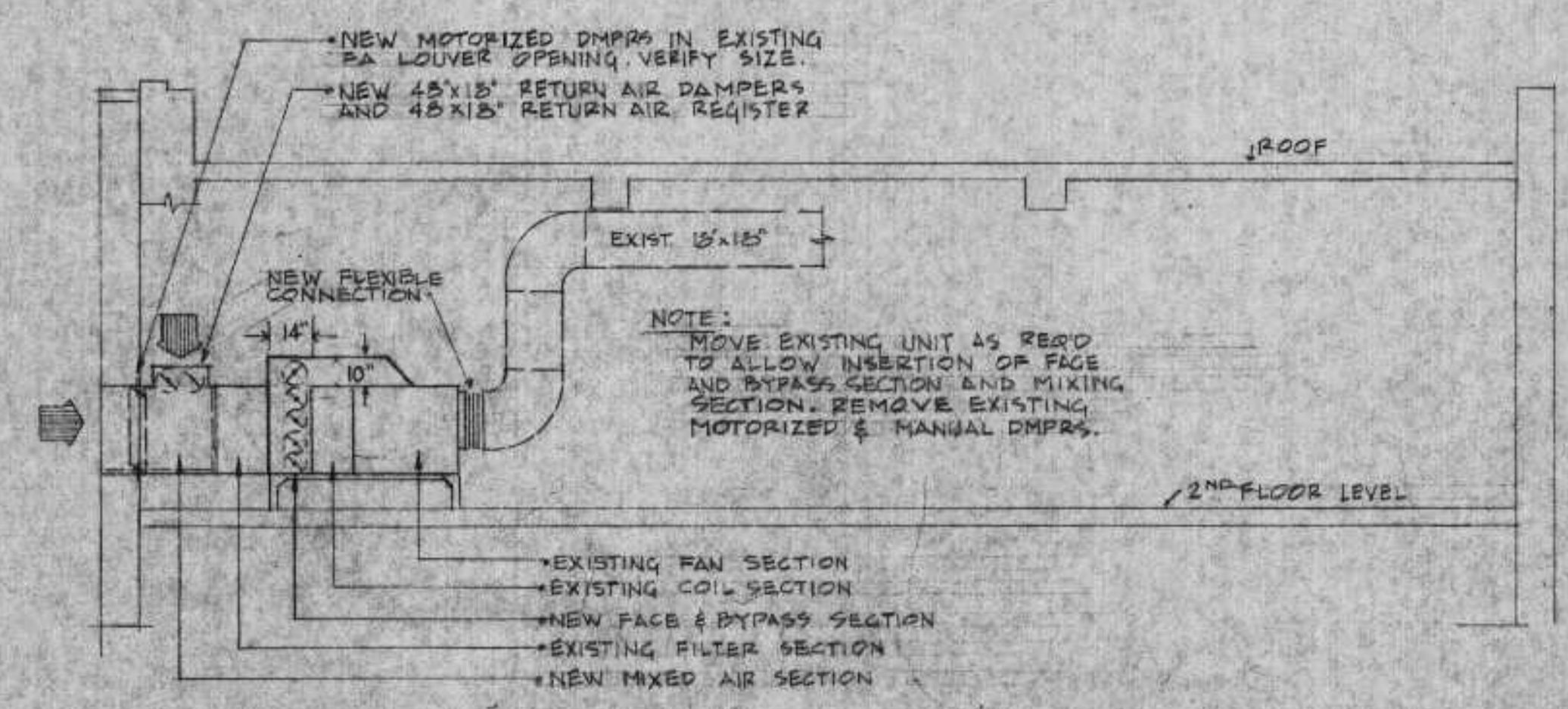
EEA nls M-912



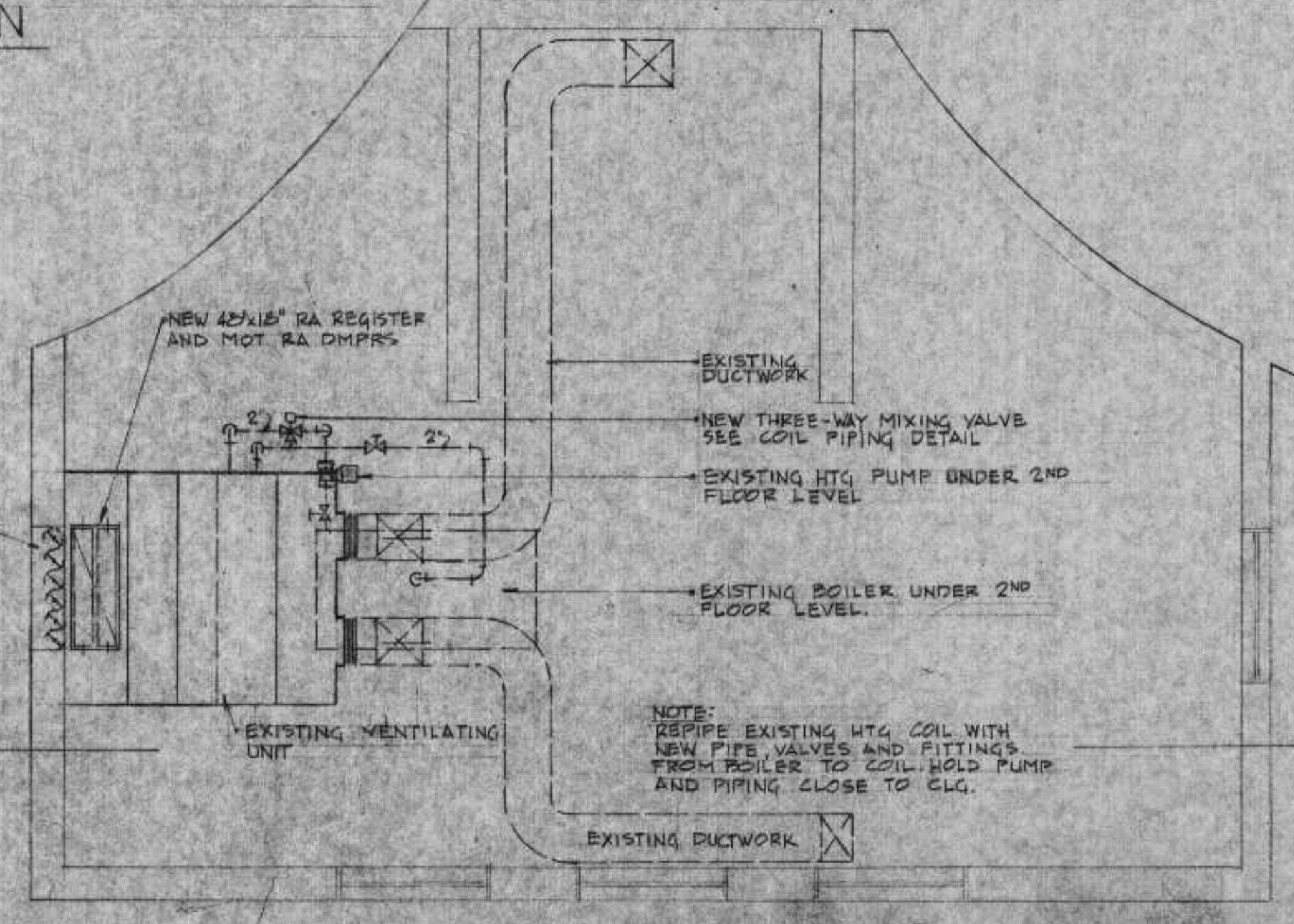
NEW DIGESTOR PLAN
SCALE 1/4" = 1'-0"



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



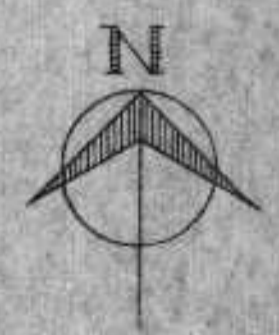
SECTION 2
SCALE 1/4" = 1'-0"

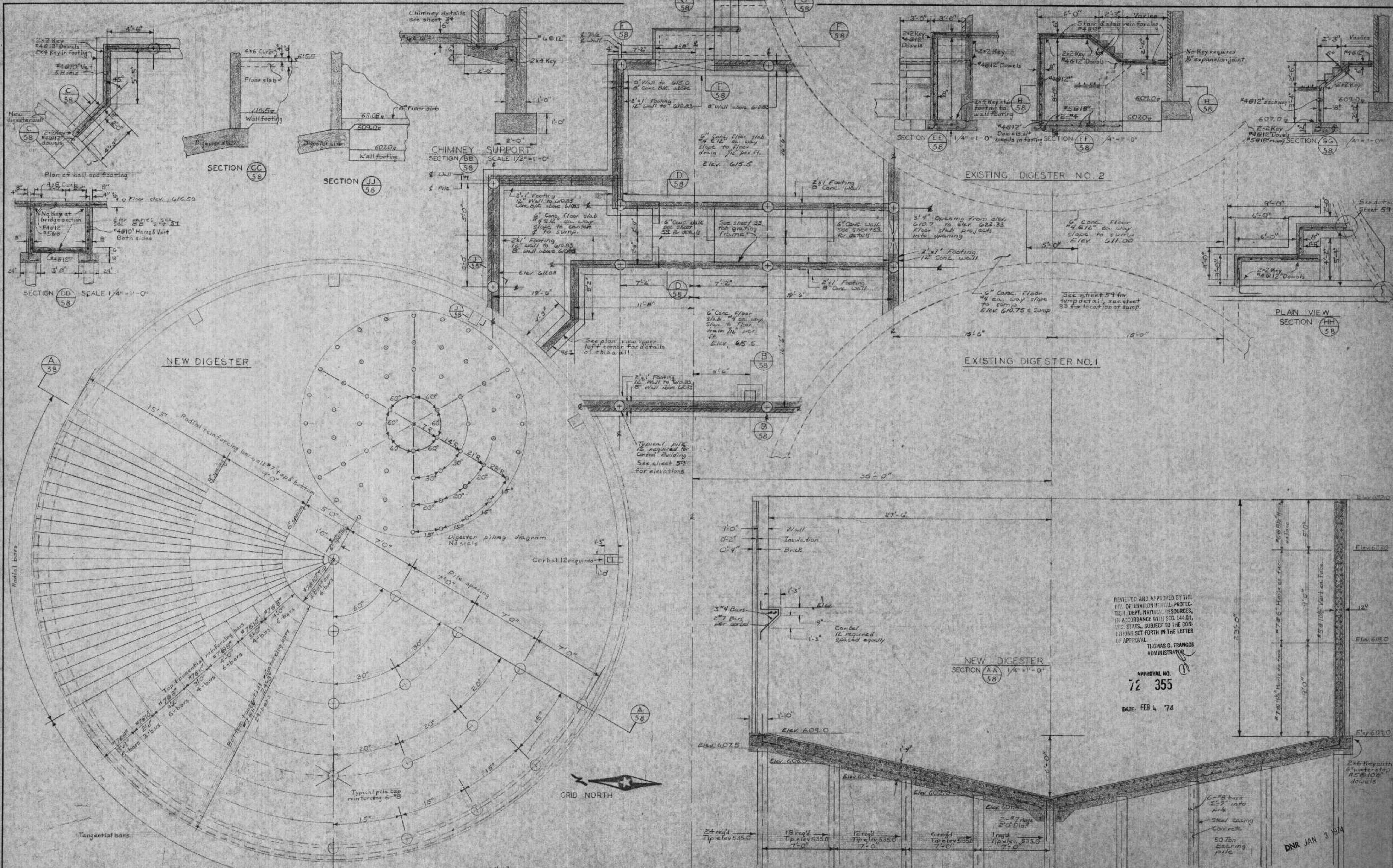


EXISTING DIGESTOR BLDG PLAN
SCALE 1/4" = 1'-0"

REVIEWED AND APPROVED BY THE DIV. OF ENVIRONMENTAL PROTECTION, DEPT. NATURAL RESOURCES, IN ACCORDANCE WITH SEC. 144.04, WIS. STATS. SUBJECT TO THE CONDITIONS SET FORTH IN THE LETTER OF APPROVAL.
THOMAS G. FRANGOS
ADMINISTRATOR

APPROVAL NO. 72 355
DATE: FEB 4 '74





REVISED AND APPROVED BY THE
 DIV. OF ENVIRONMENTAL PROTECTION,
 DEPT. NATURAL RESOURCES,
 IN ACCORDANCE WITH SEC. 144.04,
 WIS. STATS., SUBJECT TO THE CONDITIONS SET FORTH IN THE LETTER
 OF APPROVAL.
 THOMAS G. FRANGOS
 ADMINISTRATOR

APPROVAL NO.
72 355
 DATE: FEB 4 '74

DNR JAN 3 1974

SURVEY	DESIGN	REVISIONS	DATE	BY	CHKD	APP'D	PROJECT	DATE	COMM.	NO.	SHEET
1	1	1	AUG 1973				DIGESTER AND DIGESTER CONTROL BLDG.	FEBRUARY 2, 1974	6888A	58	

BONESTROO, ROSENE, ANDERLIK & ASSOC., INC.
 ST. PAUL, MINNESOTA

SUPERIOR, WISCONSIN

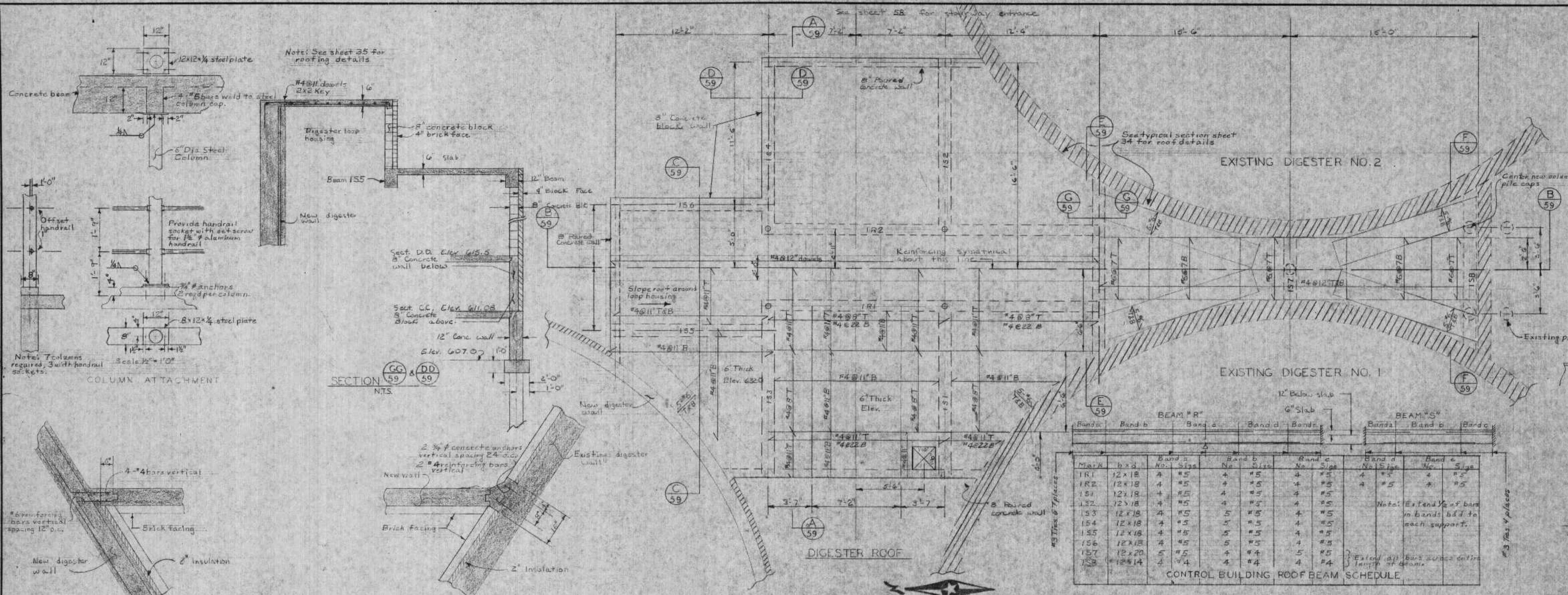
DIGESTER AND DIGESTER CONTROL BLDG.

STRUCTURAL 5-15

REVIEWED AND APPROVED BY THE
 DEPT. NATURAL RESOURCES
 IN ACCORDANCE WITH SEC. 144.03
 WIS. STATS. SUBJECT TO THE CON-
 DITIONS SET FORTH IN THE LETTER
 OF APPROVAL.
 THOMAS G. FRANCO
 ADMINISTRATOR

APPROVAL NO.
 72 355

DATE: FEB 4 '74

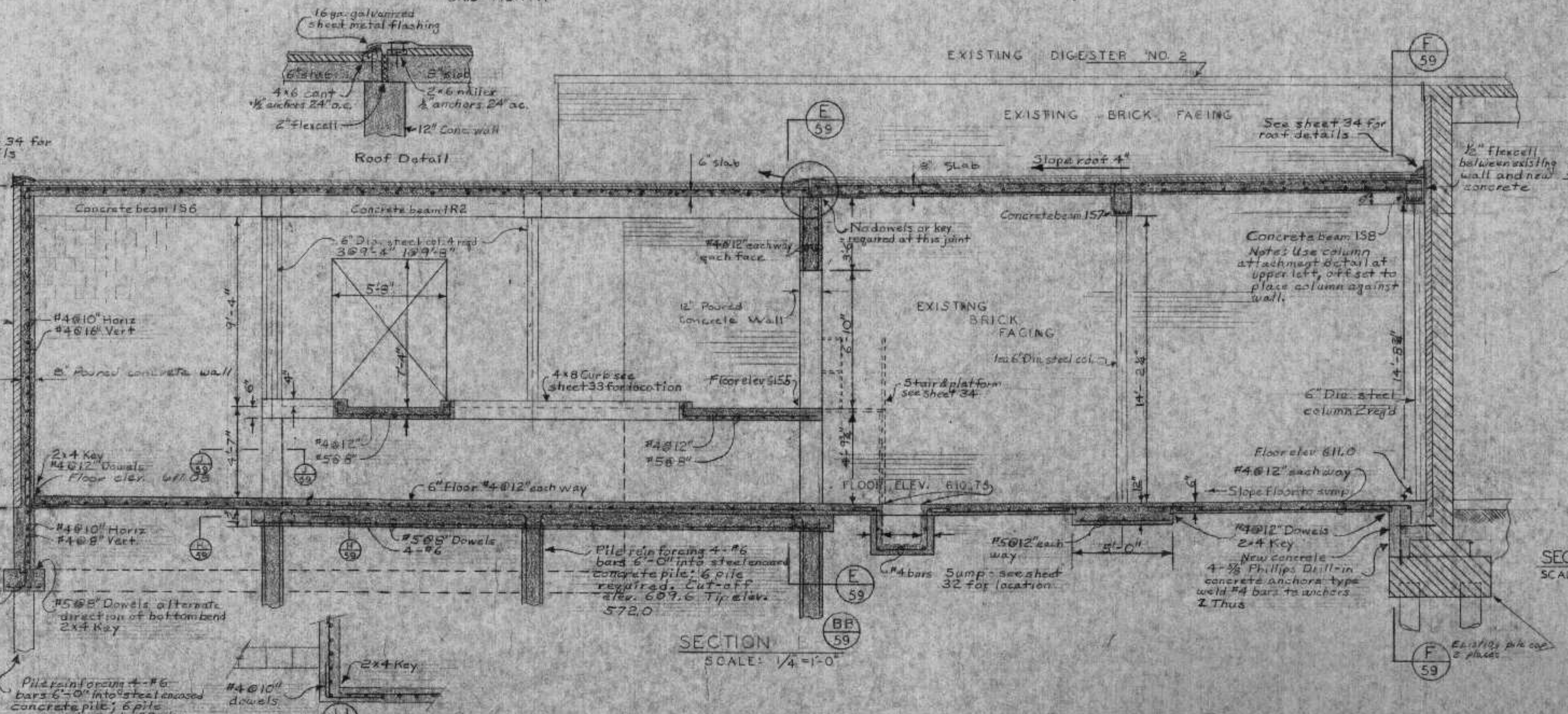
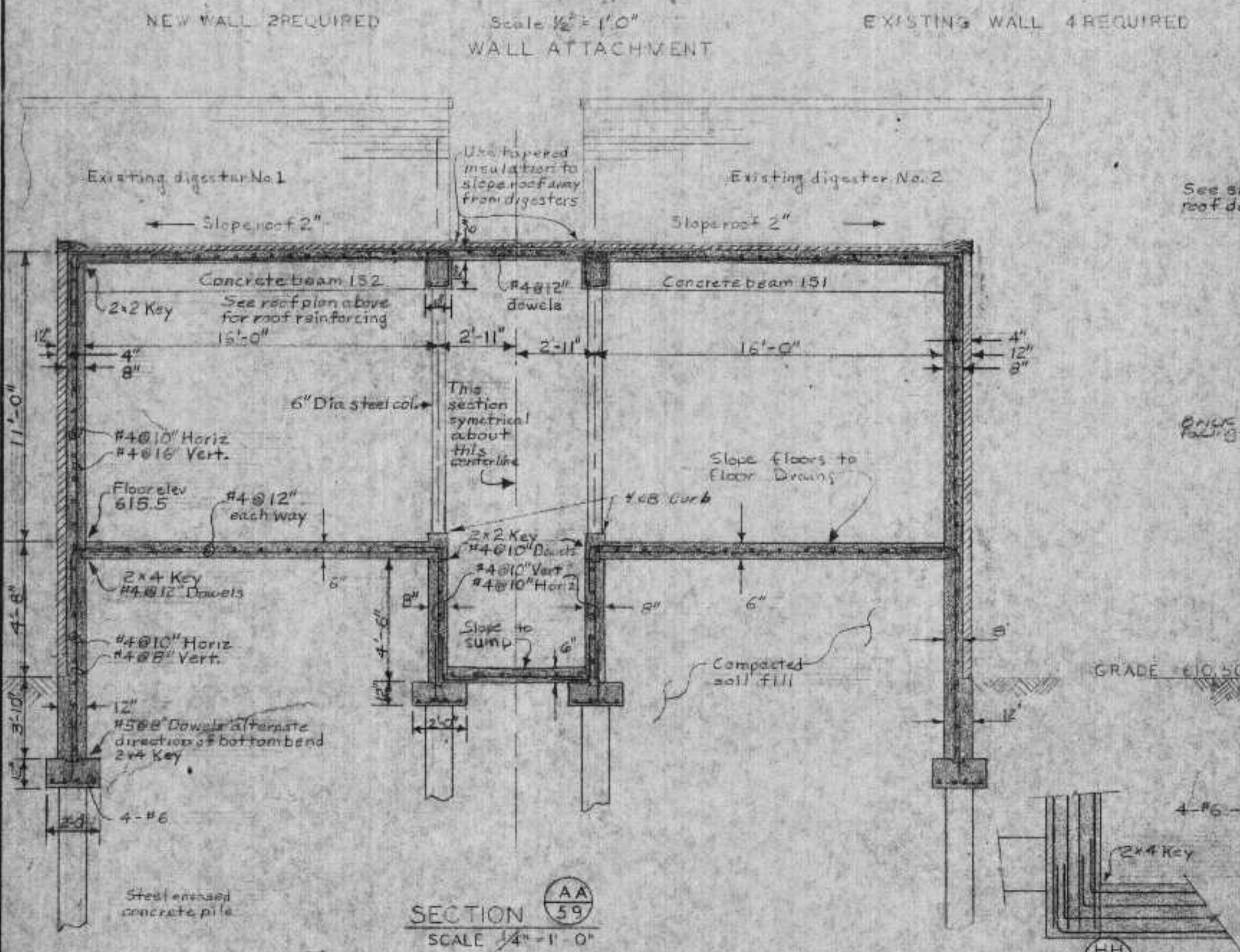
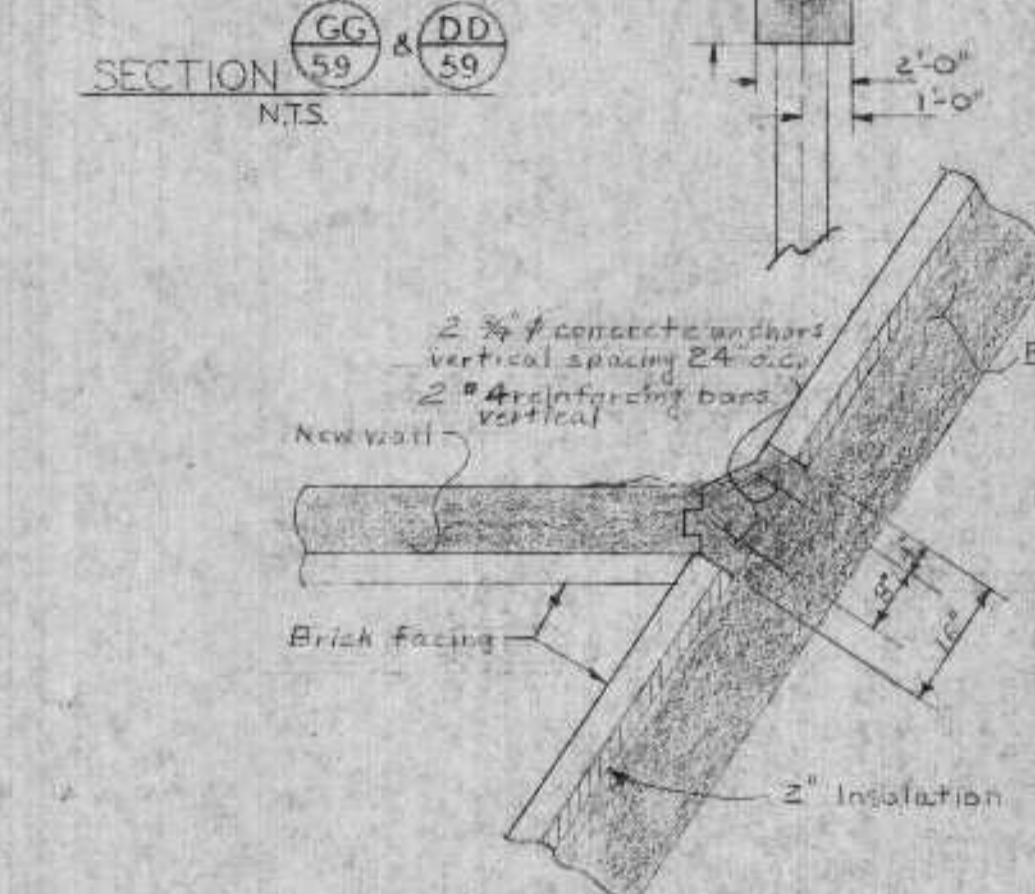
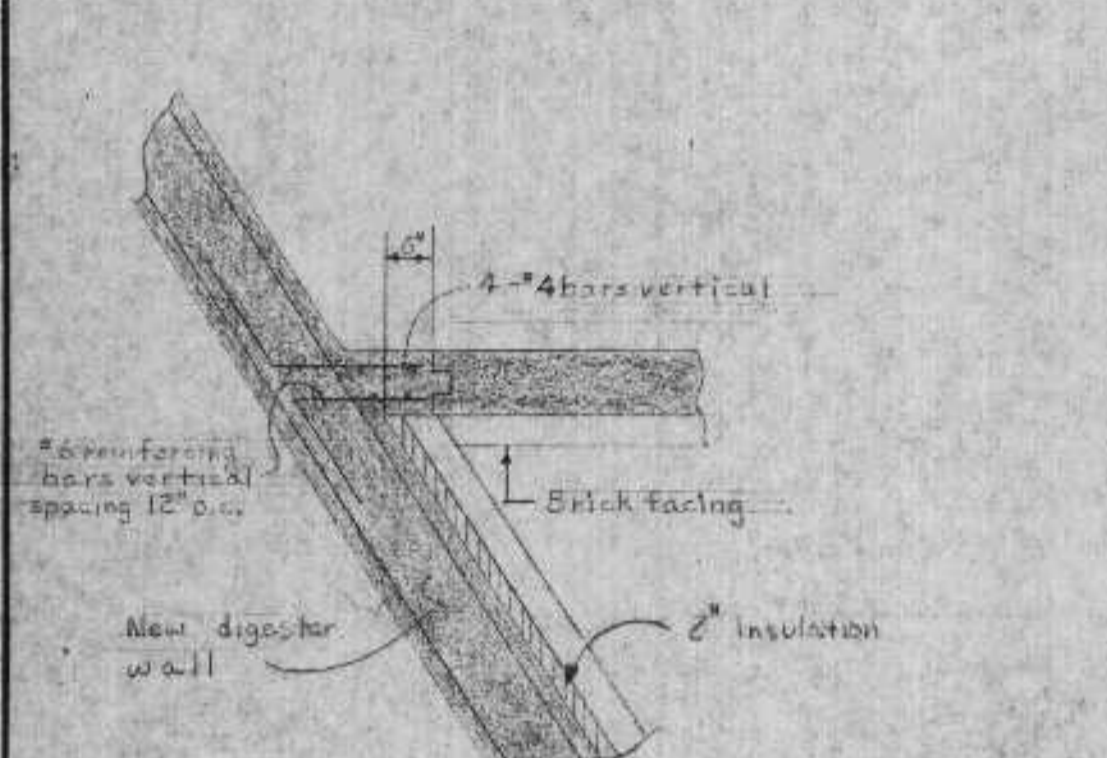
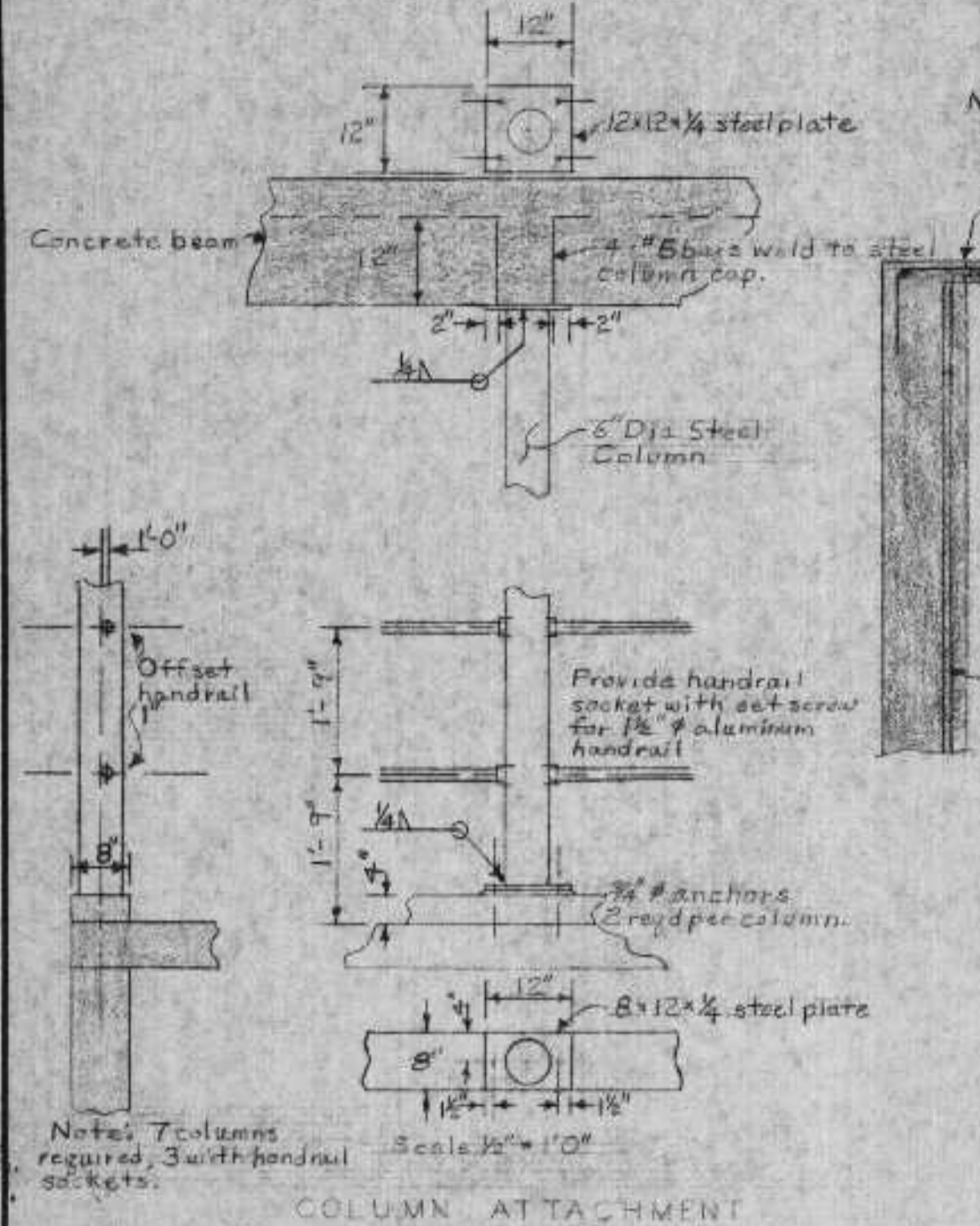


CONTROL BUILDING ROOF BEAM SCHEDULE

Mark	b x d	Band a	Band b	Band c	Band d	Band e
No.	Size	No.	Size	No.	Size	No.
1R1	12 x 18	4	#5	4	#5	4
1R2	12 x 18	4	#5	4	#5	4
1S1	12 x 18	4	#5	4	#5	4
1S2	12 x 18	4	#5	4	#5	4
1S3	12 x 18	4	#5	5	#5	4
1S4	12 x 18	4	#5	5	#5	4
1S5	12 x 18	4	#5	5	#5	4
1S6	12 x 18	4	#5	5	#5	4
1S7	12 x 20	5	#5	4	#5	5
1S8	12 x 14	4	#4	4	#4	4

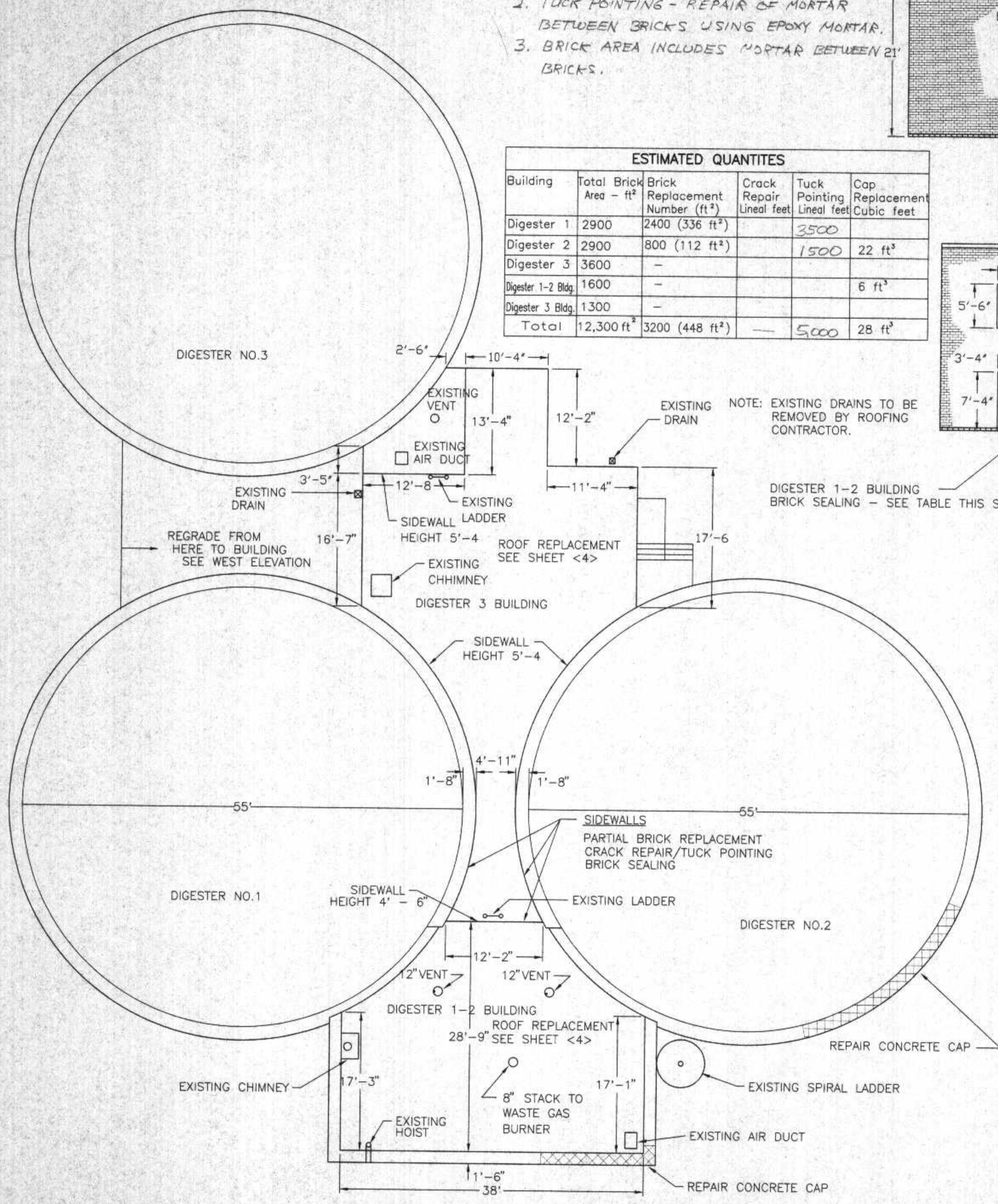
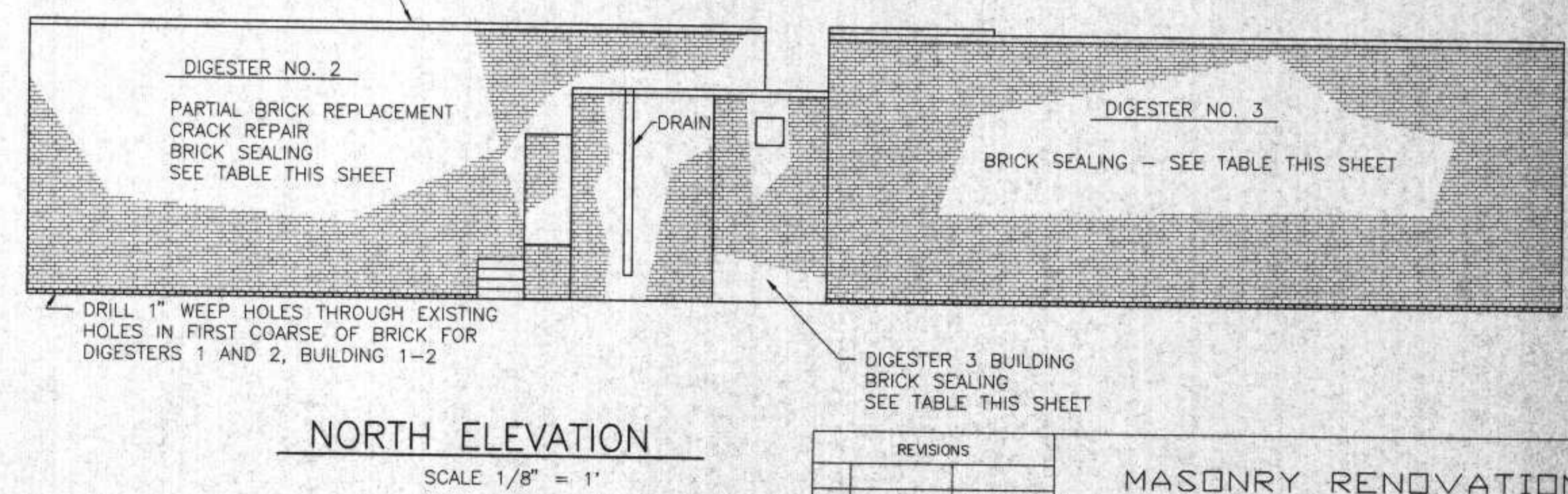
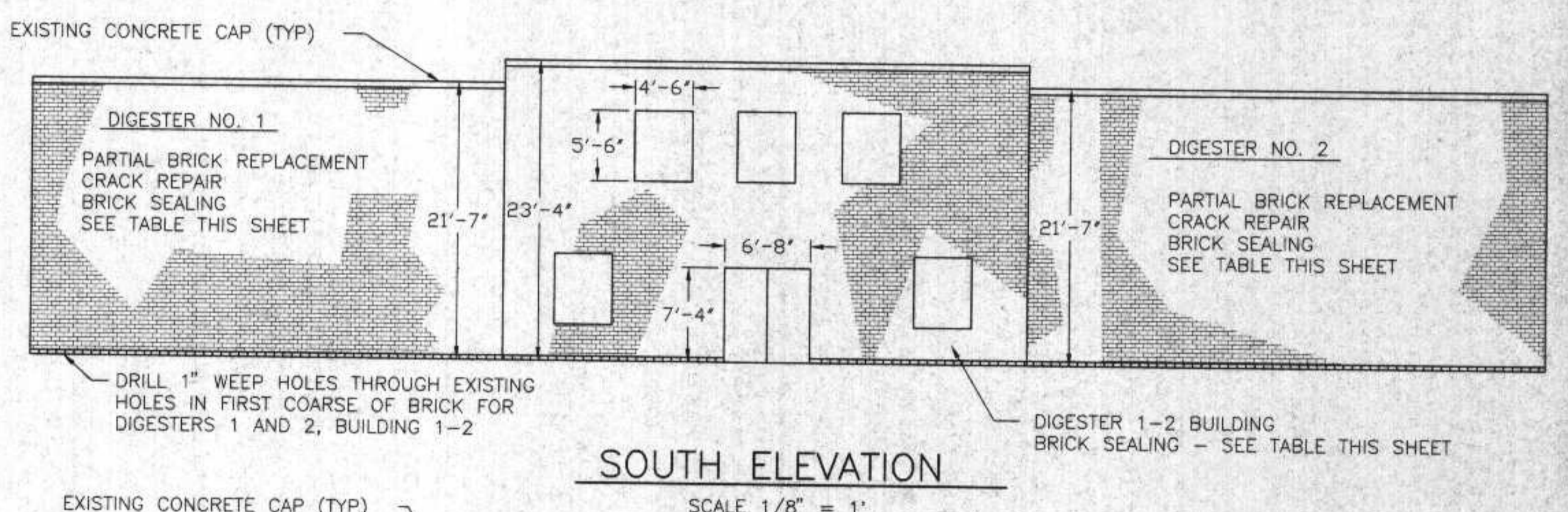
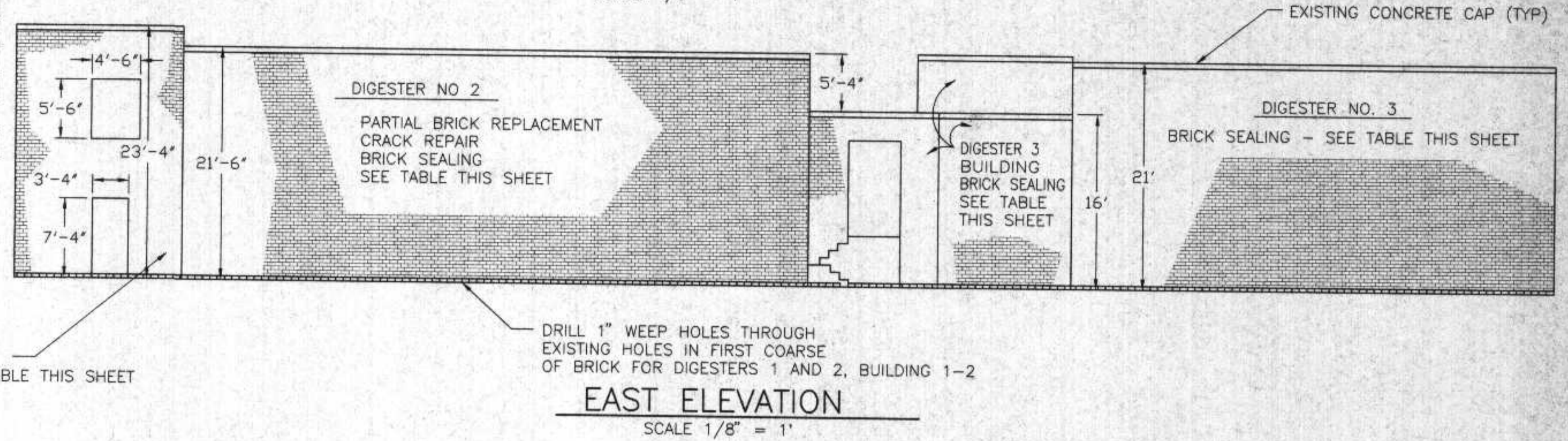
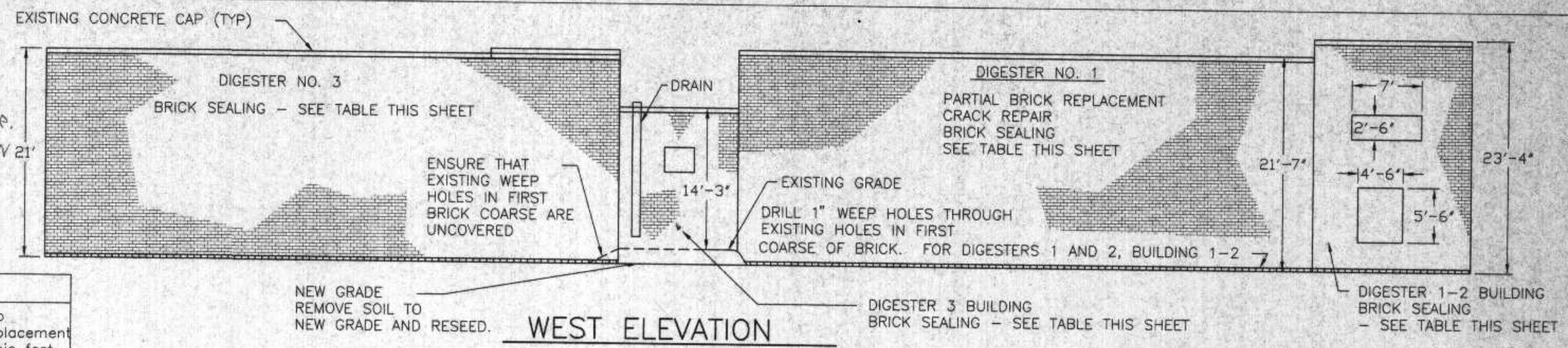
Note: Extend 1/2 of bars in bands b,d,f to each support.

Note: Extend all bars across entire length of beams.



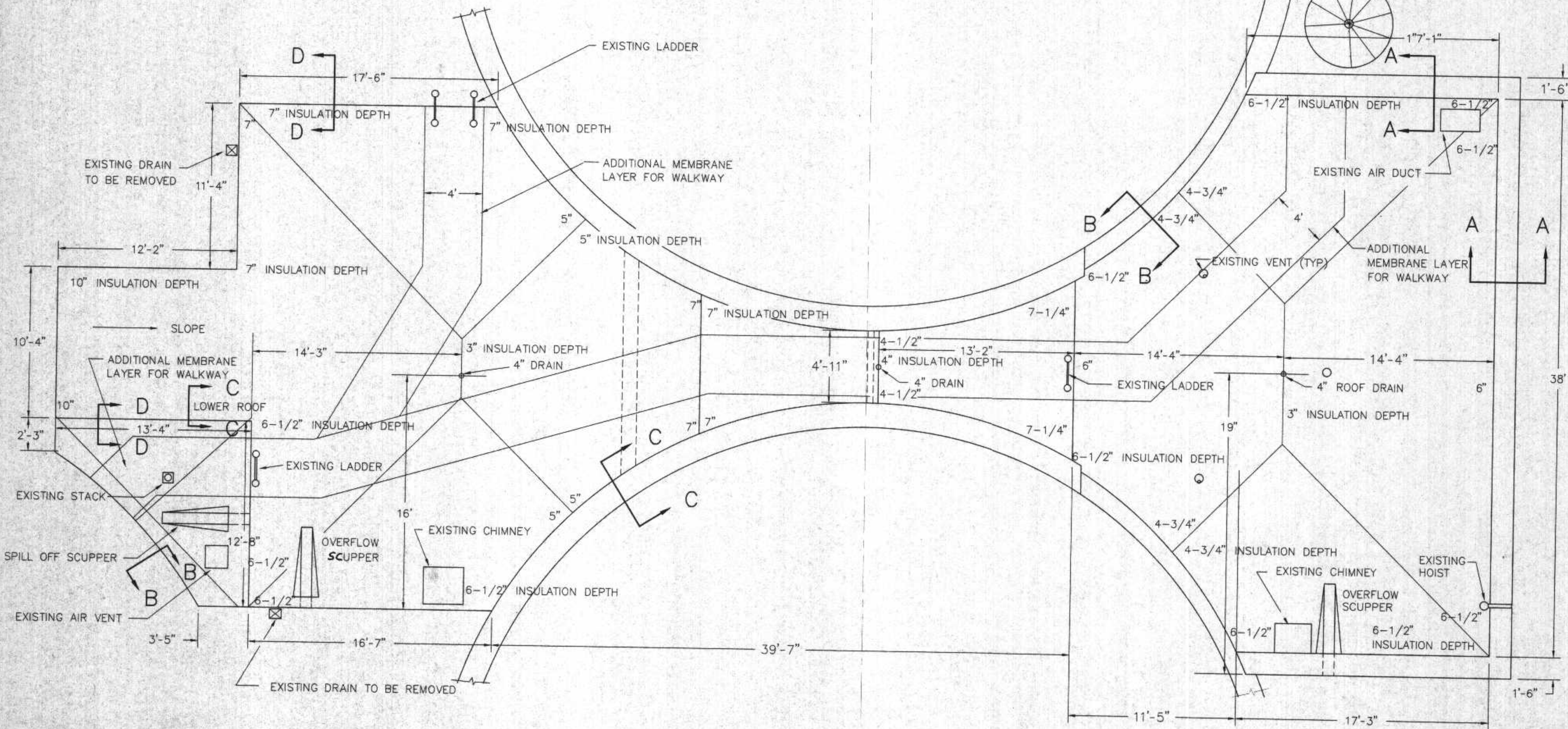
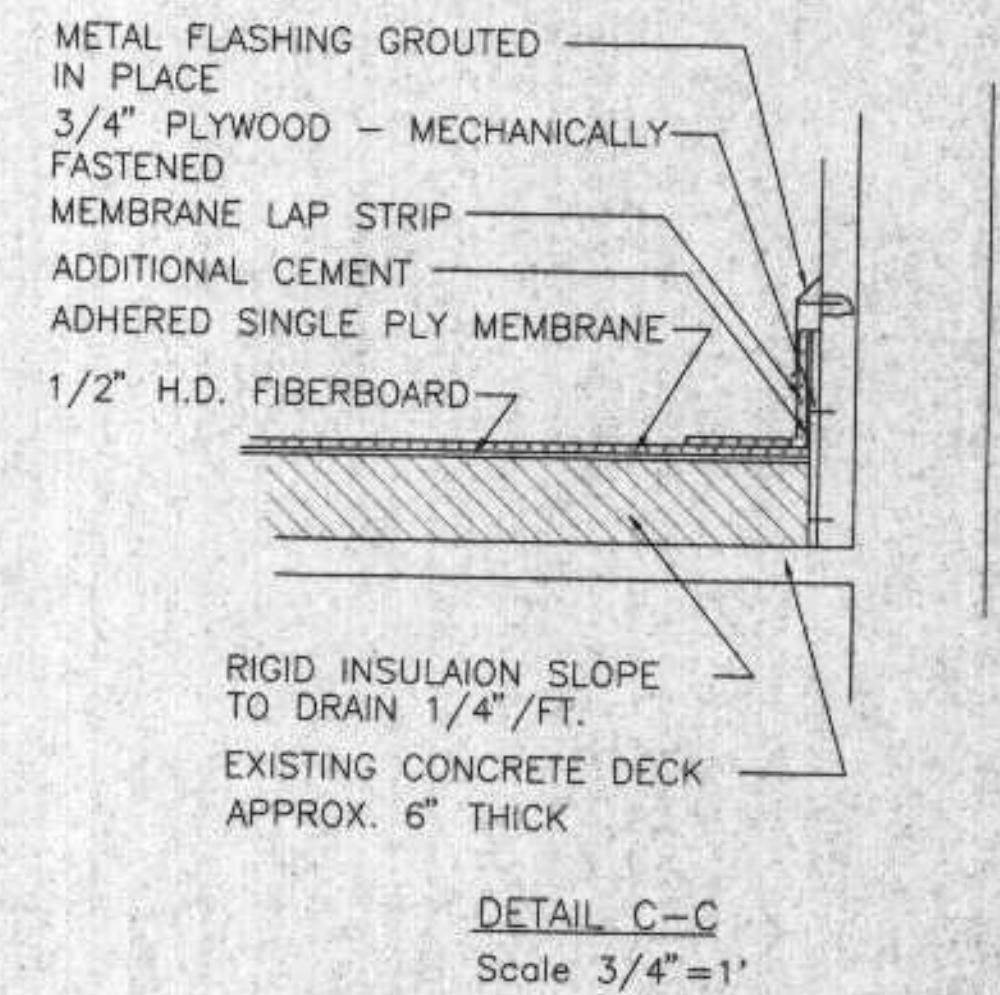
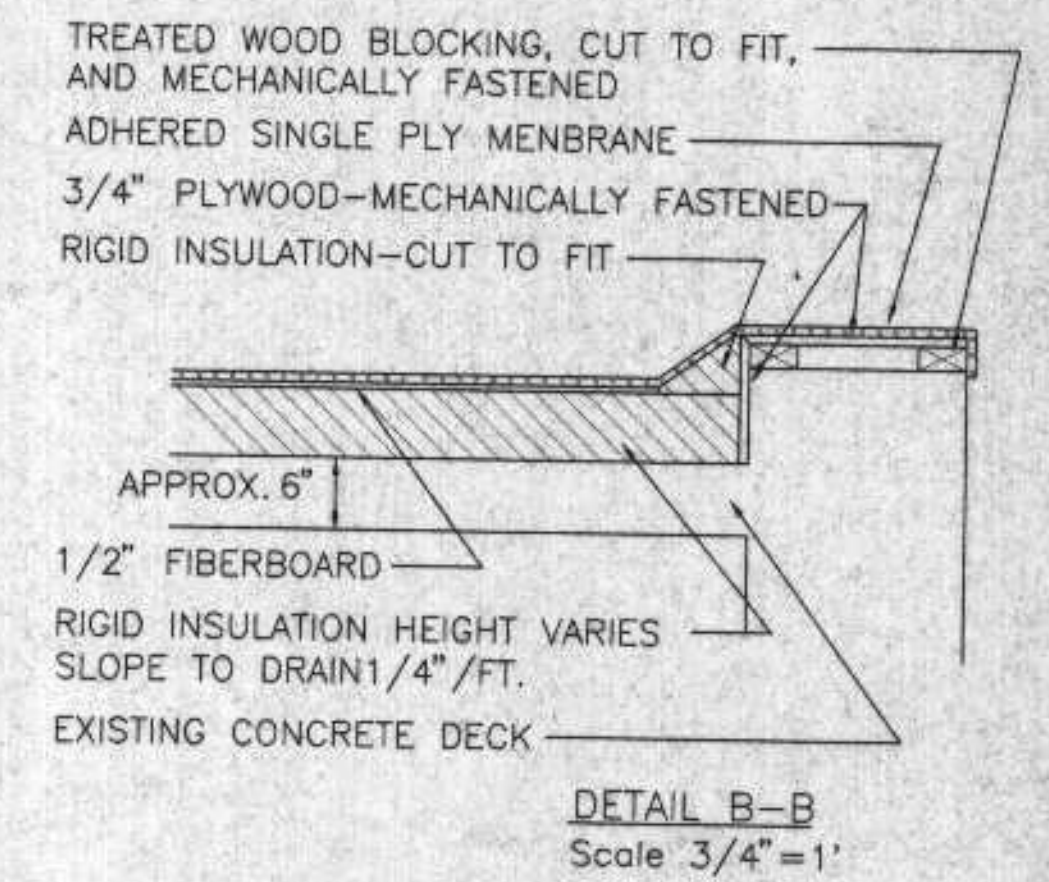
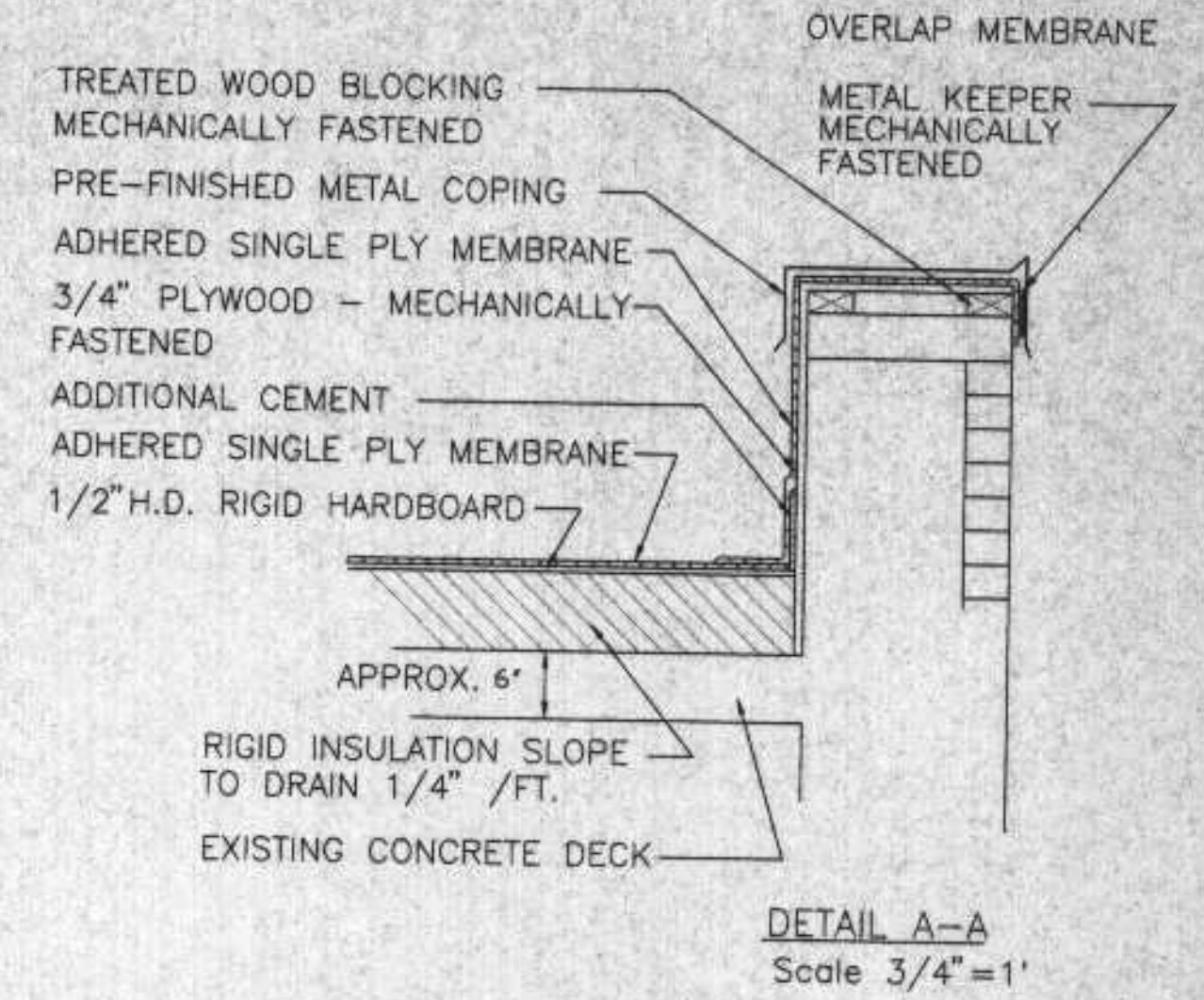
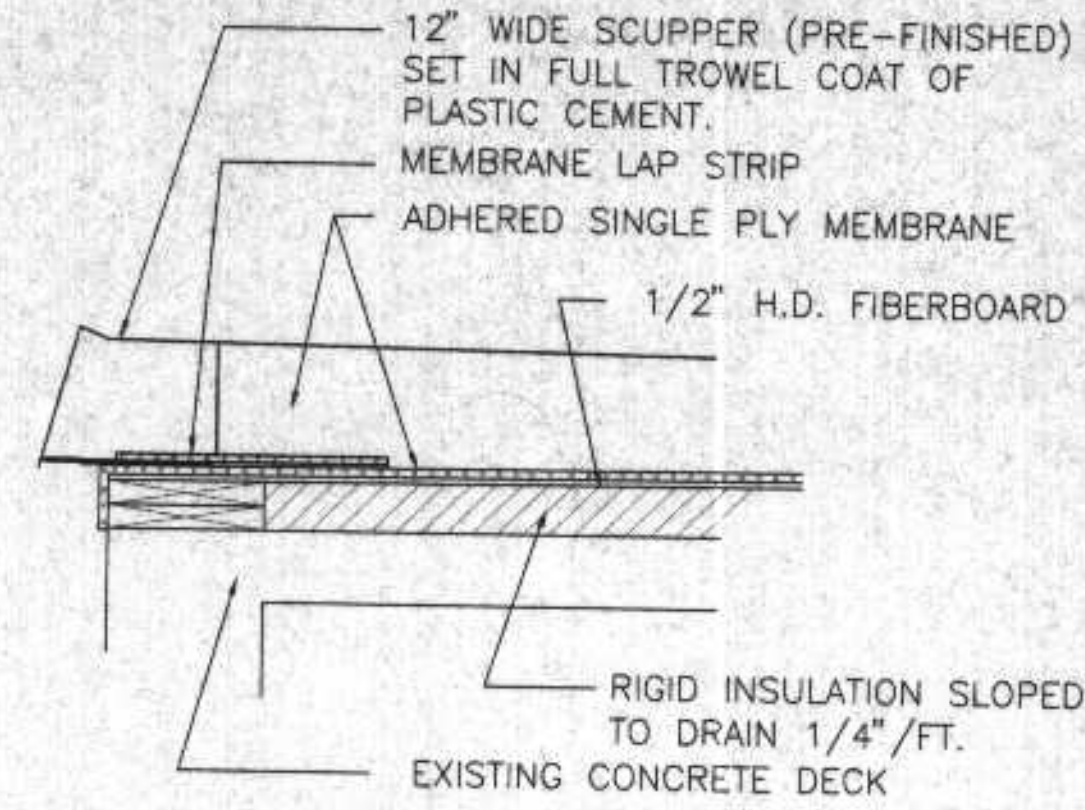
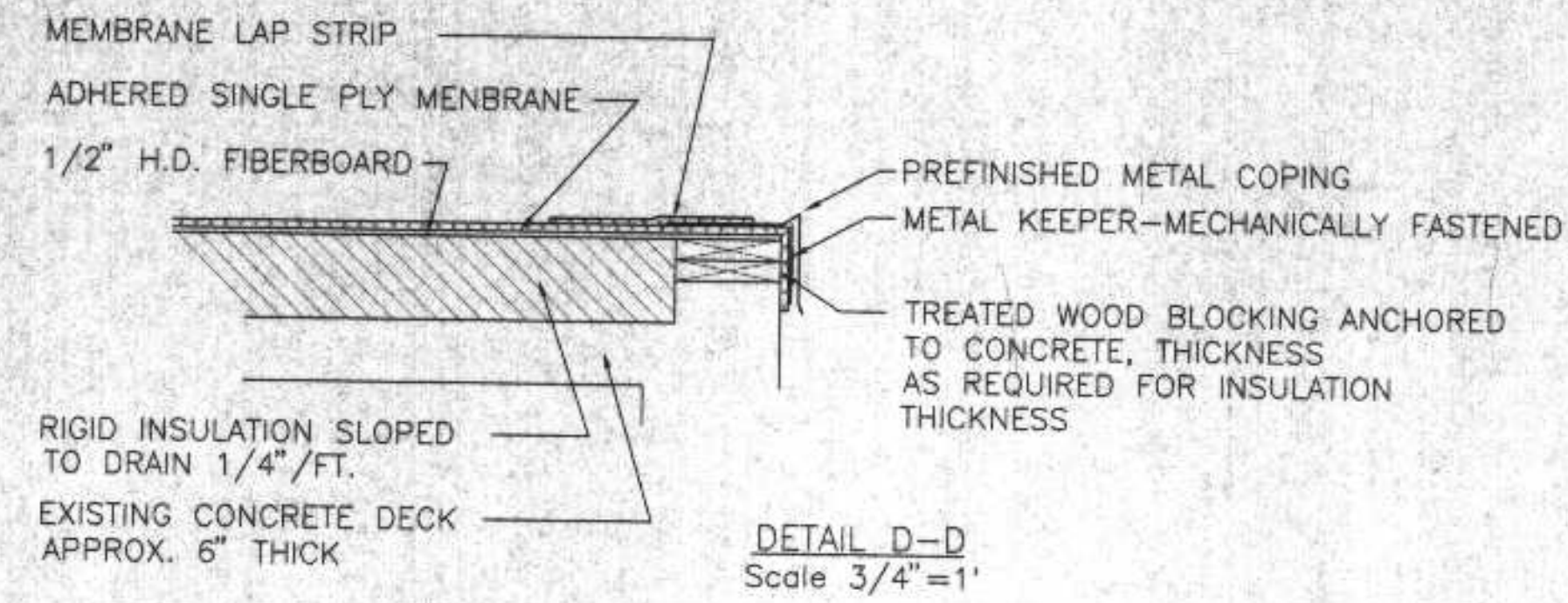
- NOTES: 1. CRACK REPAIR - REPAIR OF CRACKS IN CONCRETE USING EPOXY INJECTION.
 2. TUCK POINTING - REPAIR OF MORTAR BETWEEN BRICKS USING EPOXY MORTAR.
 3. BRICK AREA INCLUDES MORTAR BETWEEN BRICKS.

ESTIMATED QUANTITIES					
Building	Total Brick Area - ft ²	Brick Replacement Number (ft ²)	Crack Repair Lineal feet	Tuck Pointing Lineal feet	Cap Replacement Cubic feet
Digester 1	2900	2400 (336 ft ²)		3500	
Digester 2	2900	800 (112 ft ²)		1500	22 ft ³
Digester 3	3600	-			
Digester 1-2 Bldg.	1600	-			6 ft ³
Digester 3 Bldg.	1300	-			
Total	12,300 ft²	3200 (448 ft²)		5000	28 ft³



REVISIONS		MASONRY RENOVATION		
		DIGESTERS AND DIGESTER BUILDINGS		
DESIGNED BY	RWA	RMA ENGINEERING COMPANY CONSULTING ENGINEERS	SCALE	AS NOTED
DRAWN BY	DS		DATE	6/7/88
CHECKED BY			SHEET	3 of 8
APPROVED BY			JOB NO.	

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME, OR UNDER MY DIRECT SUPERVISION, AND AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF WISCONSIN.
Richard W. Coakley
 DATE: 6/9/88 REG. NO.: 25468



ROOF REPLACEMENT PLAN

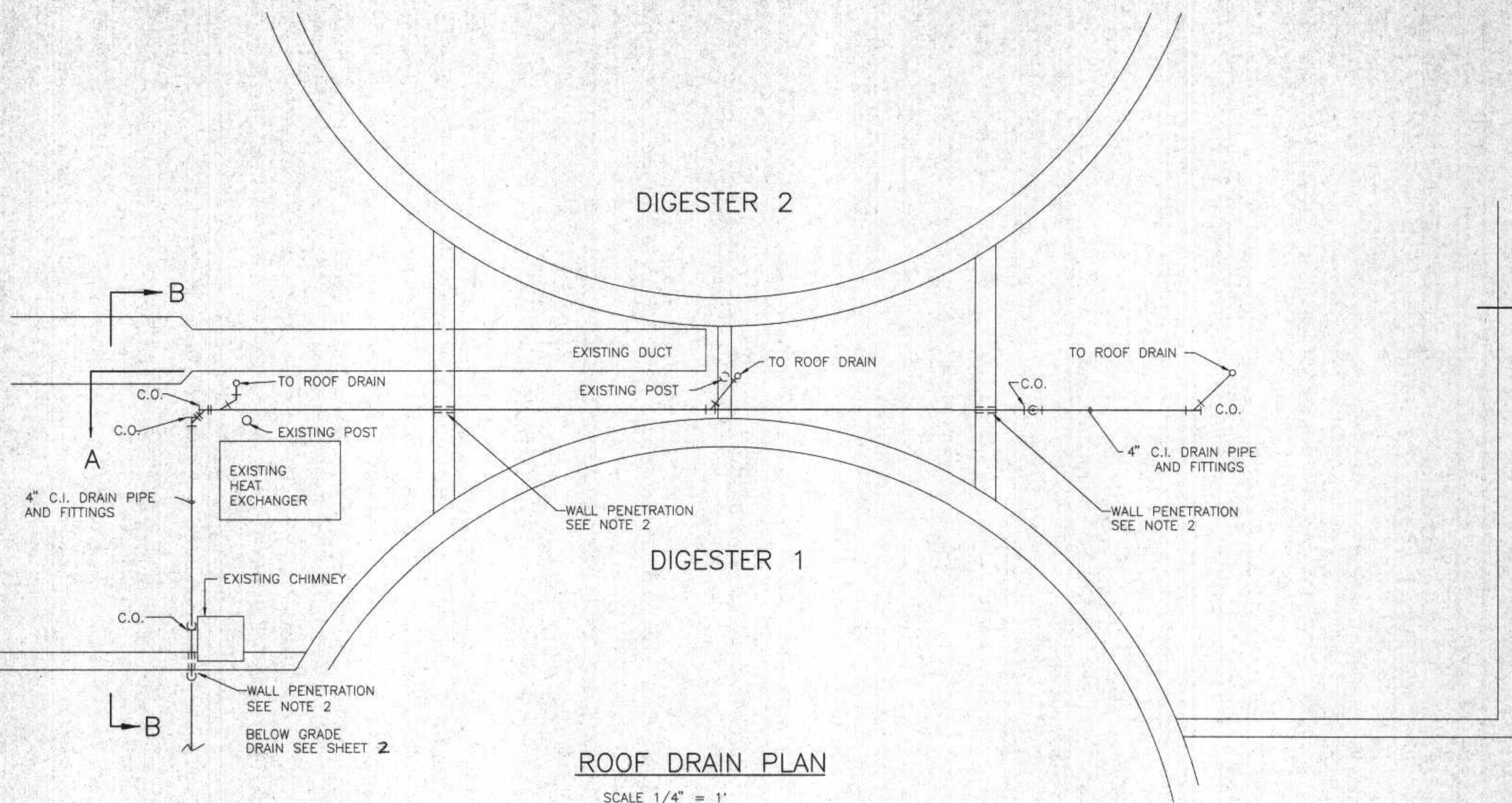
SCALE 1/4" = 1'

NOTES

1. VERIFY PLACEMENT OF ROOF DRAINS TO MISS VENTILATION DUCTS AND BEAMS BELOW ROOF
2. REMOVE EXISTING BUILT-UP ROOF DOWN TO CONCRETE DECKING

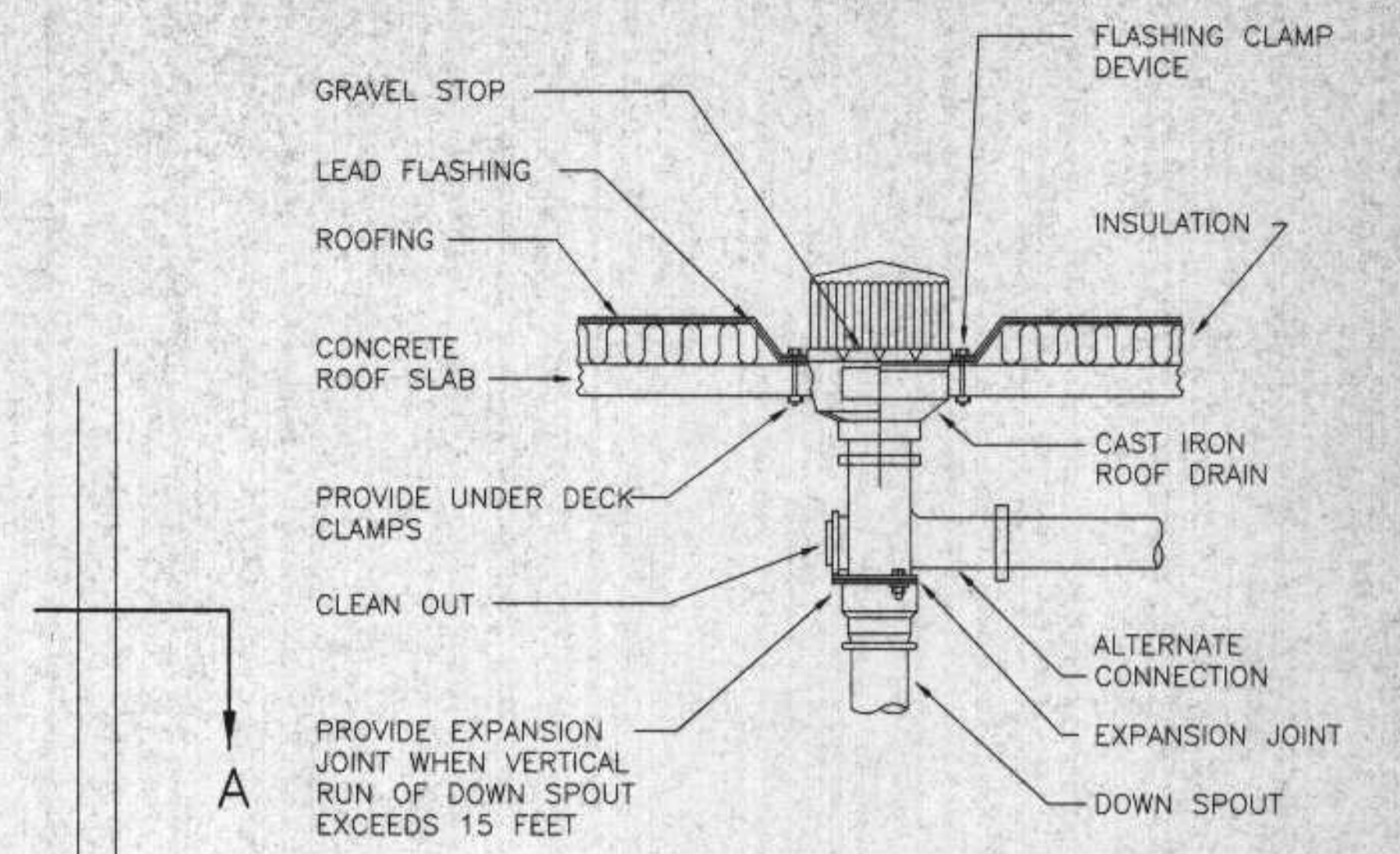
I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME, OR UNDER MY DIRECT SUPERVISION, AND I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF WISCONSIN.
Richard M. Cecchi
DATE: 6/9/98 REG. NO.: 25488

REVISIONS		ROOF REPLACEMENT PLAN	
		DIGESTER BUILDINGS	
DESIGNED BY	RMA	SCALE	AS NOTED
DRAWN BY	DS	DATE	6/9/98
CHECKED BY		SHEET	5 of 8
APPROVED BY		RMA ENGINEERING COMPANY CONSULTING ENGINEERS	



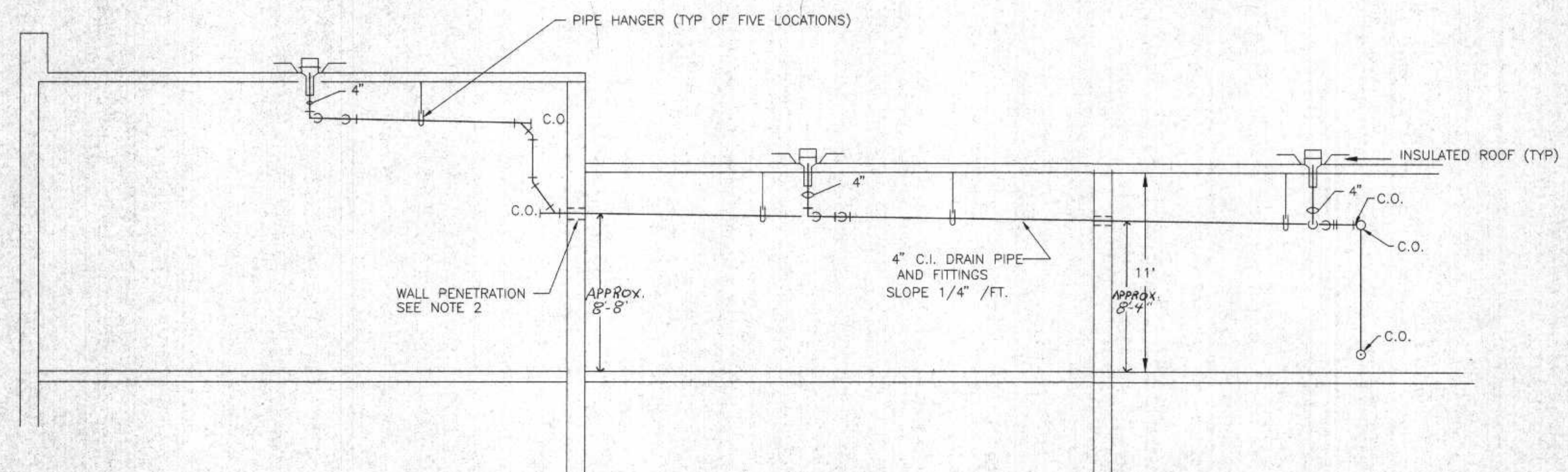
ROOF DRAIN PLAN

SCALE 1/4" = 1'



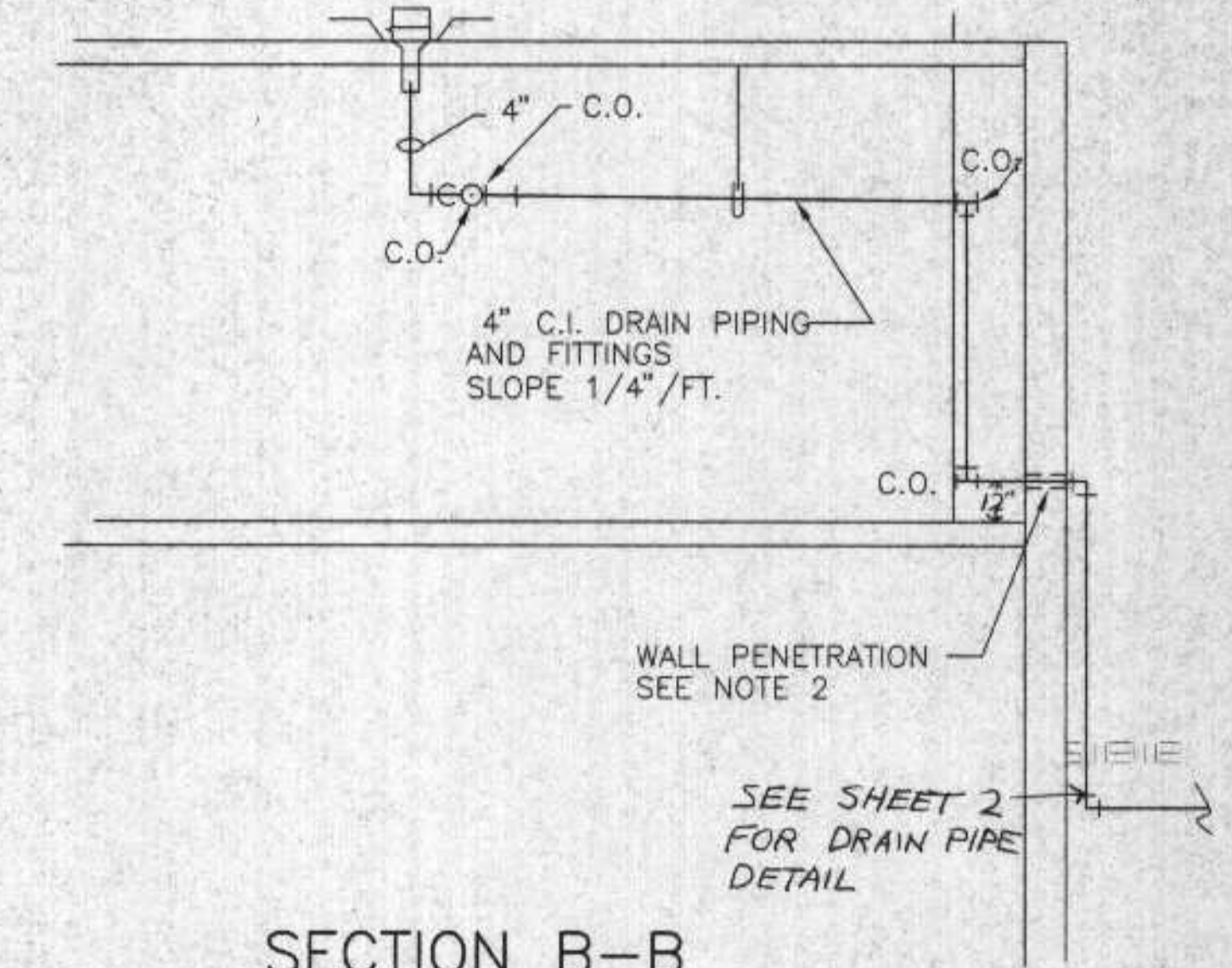
DETAIL ROOF DRAIN

N.T.S.



SECTION A-A

SCALE 1/4" = 1'



SECTION B-B

SCALE 1/4" = 1'

- NOTES:
- APPROXIMATE LOCATION OF DRAIN LINE IS SHOWN AND HAS BEEN LOCATED TO AVOID EXISTING PIPING AND EQUIPMENT IN THE DIGESTER BUILDINGS.
 - AT WALL PENETRATIONS (1) CORE DRILL 6" HOLE, (2) INSTALL LINK-SEAL 10LS-300-C, AND (3) FILL WITH NON-SHRINK GROUT.

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME, OR UNDER MY DIRECT SUPERVISION, AND I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF WISCONSIN.
Richard M. Curtlow
 DATE: 6/9/88 REG. NO.: 25488

REVISIONS		ROOF DRAINAGE PLAN	
		DIGESTER BUILDINGS	
DESIGNED BY	RMA	SCALE	AS NOTED
DRAWN BY	DS	RMA ENGINEERING COMPANY	DATE
CHECKED BY		CONSULTING ENGINEERS	6/9/88
APPROVED BY			SHEET 6 of 8