

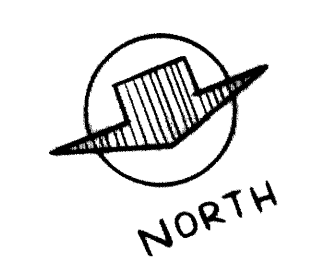
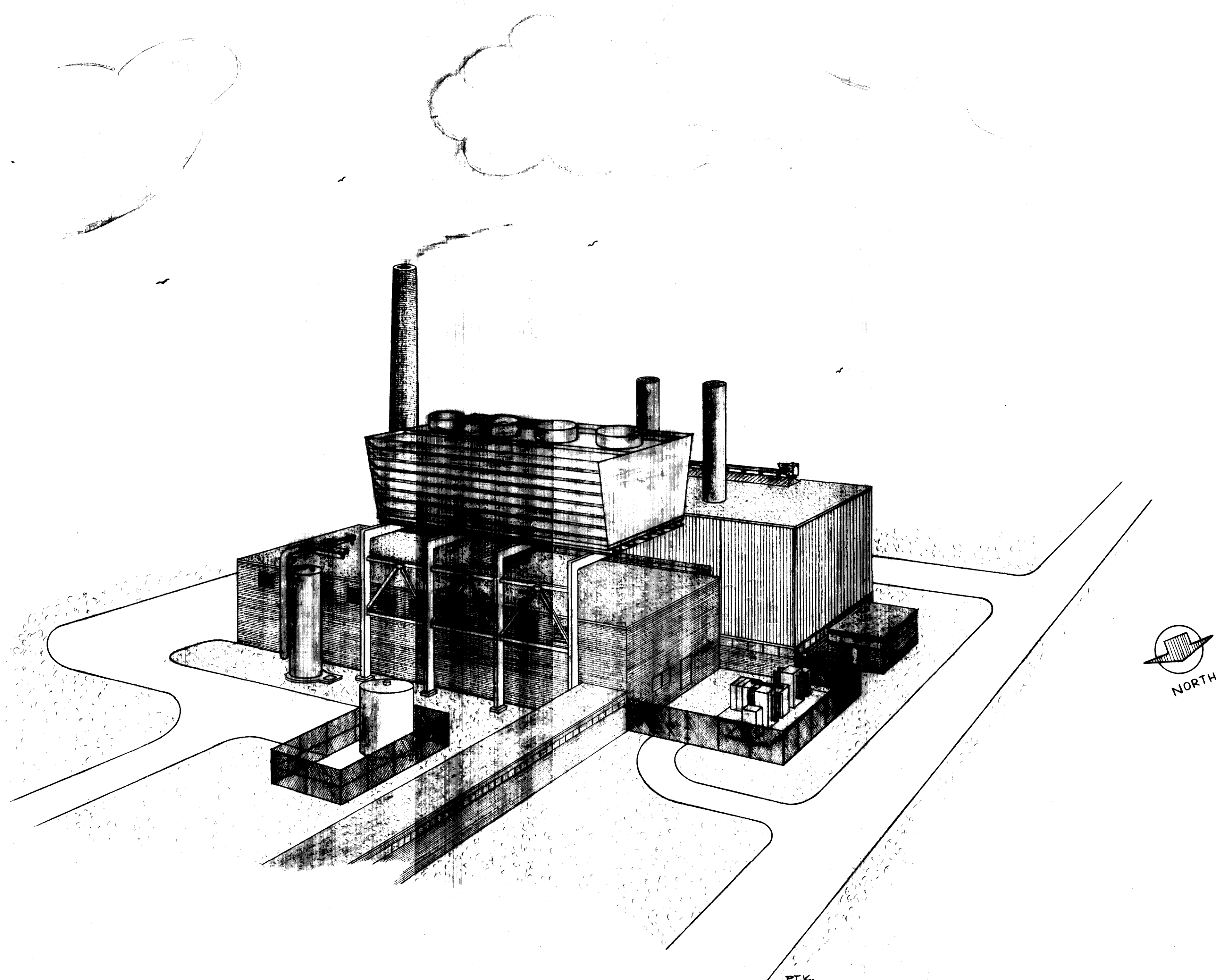
**ADDITIONS & RENOVATIONS TO  
HEATING & COOLING PLANT - A.B. CHANDLER MEDICAL CENTER  
UNIVERSITY OF KENTUCKY  
LEXINGTON, KENTUCKY**

**COMMONWEALTH OF KENTUCKY  
DEPARTMENT of FINANCE  
DIVISION of ENGINEERING**

**MASON & HANGER - SILAS MASON CO., INC.  
LEXINGTON, KENTUCKY**

**SCHEDULE of DRAWINGS**

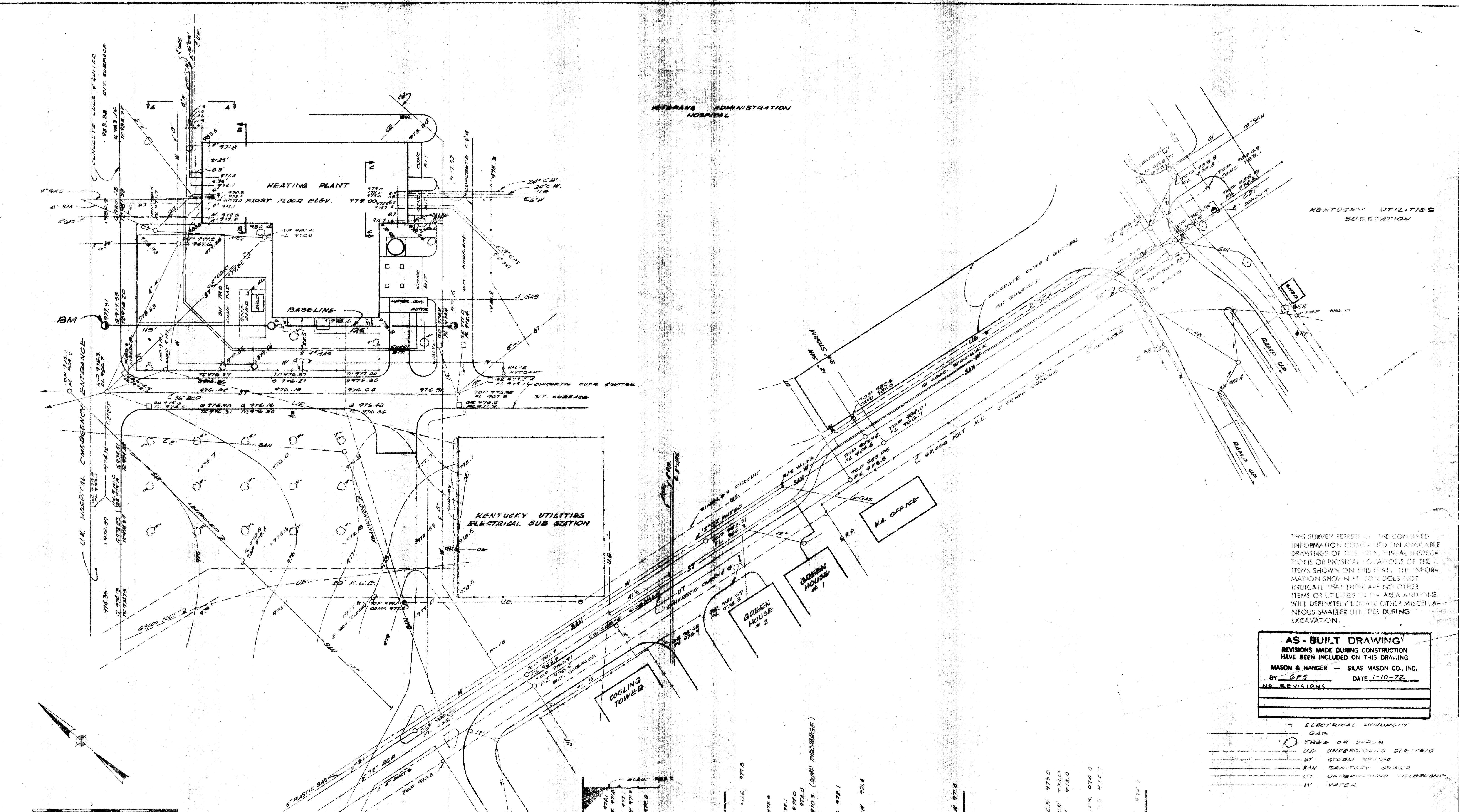
C- 1	PERSPECTIVE VIEW OF PLANT
C- 2	SITE SURVEY
C- 3	SITE PLAN-STRUCTURAL
C- 4	SUBSURFACE INVESTIGATION
S- 1	ELEVATIONS
S- 2	ELEVATIONS & GENERAL NOTES
S- 3	FOUNDATION PLAN & DETAILS
S- 4	FIRST FLOOR PLAN & DETAILS
S- 5	MEZZANINE FLOOR PLAN & COL. BASE
S- 6	ROOF PLAN & OPENING DETAILS
S- 7	BUILDING SECTION & DETAILS
S- 8	SECTIONAL END ELEVATION, EXISTING BLDG. & DETAILS
S- 9	DOOR, FRAME & WINDOW SCHEDULE & DETAILS
S-10	REMOVABLE WALL PANEL & DETAILS
S-11	MISCELLANEOUS DETAILS
S-12	BLDG. FRAMING PLANS & DTL.S.
S-13	BUILDING CONNECTION DETAILS
S-14	FLOOR GRATING, PLATFORM & DETAILS
S-15	COAL BUNKER SUPPORT & LARRY RAIL DETAILS
S-16	PLAN & ELEVATION - COOLING TOWER
S-17	FRAME ELEVATIONS & DETAILS-COOLING TOWER
S-18	STRINGER PLAN & BRACING DETAILS-COOLING TOWER
S-19	FRAME CONN. & BASE PLATES-COOLING TOWER
S-20	FOUNDATION DETAILS-COOLING TOWER
S-21	GAS METER HOUSE DETAILS
S-22	TRANSFORMER PAD & STORAGE TANK FOUNDATION
M- 1	UNDERGROUND PIPING & LEGEND
M- 2	INDIVIDUAL UTILITIES UNDERGROUND LINES
M- 3	BASEMENT PLAN
M- 4	FIRST FLOOR PLAN
M- 5	MEZZANINE FLOOR PLAN
M- 6	ROOF PLAN
M- 7	SECTIONAL ELEVATIONS
M- 8	PIPING & INSTRUMENT SCHEMATIC
M- 9	PIPING ISOMETRIC-LOOKING NORTH-STEAM, CONDENSATE, GAS
M-10	PIPING ISOMETRIC-LOOKING SOUTH-STEAM, CONDENSATE
M-11	STEAM & CONDENSATE FOR V.A. HOSPITAL - V.A. PROJECT NO. 16-5177
M-12	BOILER PANEL INSTRUMENTATION
M-13	BOILER WATER TREATMENT
M-14	BOILER FEEDWATER SYSTEM
M-15	SURGE TANK
M-16	PIPE SUPPORT DETAILS
M-17	HEATING, VENTILATING, COMPRESSED AIR & DETAILS
M-18	NEW COAL HANDLING EQUIPMENT
M-19	EMERGENCY GENERATOR SYSTEM & DETAILS
M-20	PLUMBING SYSTEM & DETAILS
M-21	COOLING TOWER WATER STORAGE TANK
M-22	COOLING TOWER WATER STORAGE TANK - PIPING & FOUNDATION
M-23	WATER COOLING TOWER - PIPING & SUPPORTS
E- 1	12 KV CABLE & DUCT PROFILE, H & C PLANT END
E- 2	12 KV CABLE & DUCT PROFILE, SUB NO. 1 END
E- 3	MAIN POWER SCHEMATIC
E- 4	DISTRIBUTION SCHEMATIC
E- 5	12 KV SUBSTATION NO. 1 & MANHOLE DETAILS
E- 6	12 KV MANHOLE DETAILS
E- 7	NEW 12 KV TO 4 KV SUBSTATION & DETAILS
E- 8	MEDICAL CENTER SWITCHGEAR DETAILS
E- 9	BASEMENT PLAN
E-10	NEW ADDITION FIRST FLOOR PLAN
E-11	NEW ADDITION MEZZANINE FLOOR PLAN
E-12	EXISTING BOILER ROOM & DETAILS
E-13	ROOF PLAN
E-14	WEIGH LARRY, LIGHTING & GROUNDING DETAILS
E-15	DETAILS
E-16	MOTOR CONTROL DETAILS
E-17	MOTOR CONTROL DETAILS



ADDITIONS & RENOVATIONS		
HEATING & COOLING PLANT — A. B. CHANDLER MEDICAL CENTER UNIVERSITY OF KENTUCKY LEXINGTON, KENTUCKY		
<b>DRAWN BY</b> P. T. K.	<b>PERSPECTIVE VIEW OF PLANT</b>	<b>DATE</b> 5-28-70
<b>TRACED BY</b> P. T. K.	<b>MASON &amp; HANGER-SILAS MASON CO., INC.</b> 1500 W. MAIN ST. LEXINGTON, KENTUCKY	<b>SCALE</b>
<b>CHECKED BY</b>	<b>COMMONWEALTH OF KENTUCKY</b> DEPARTMENT OF FINANCE DIVISION OF ENGINEERING FRANKFORT KENTUCKY	<b>SPEC. NO.</b>
		<b>DRAWING NO.</b> C-1
<b>APPROVED BY</b> <i>C. J. Marshall</i> AGENCY HEAD	<b>DATE</b> 5-28-70	
<b>APPROVED BY</b> <i>W. J. McConnell</i> DIRECTOR, DIVISION OF ENGINEERING	<b>DATE</b> 6-1-70	

U-4986

Document # 012325  
 Sheet A-1  
 Scale 1/8" = 1'-0"



VETERANS ADMINISTRATION HOSPITAL

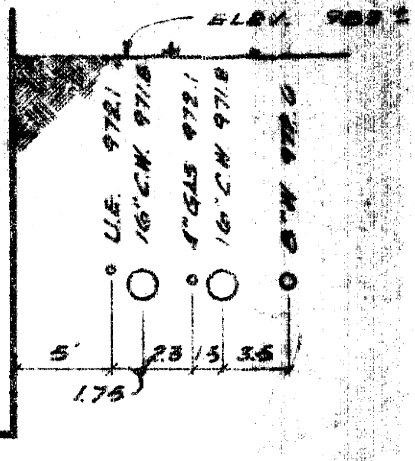
KENTUCKY UTILITIES SUBSTATION

THIS SURVEY REPRESENTS THE COMBINED INFORMATION CONTAINED ON AVAILABLE DRAWINGS OF THIS AREA, VISUAL INSPECTIONS OR PHYSICAL LOCATIONS OF THE ITEMS SHOWN ON THIS PLAN. THE INFORMATION SHOWN HEREON DOES NOT INDICATE THAT THERE ARE NO OTHER ITEMS OR UTILITIES IN THE AREA AND ONE WILL DEFINITELY LOCATE OTHER MISCELLANEOUS SMALLER UTILITIES DURING EXCAVATION.

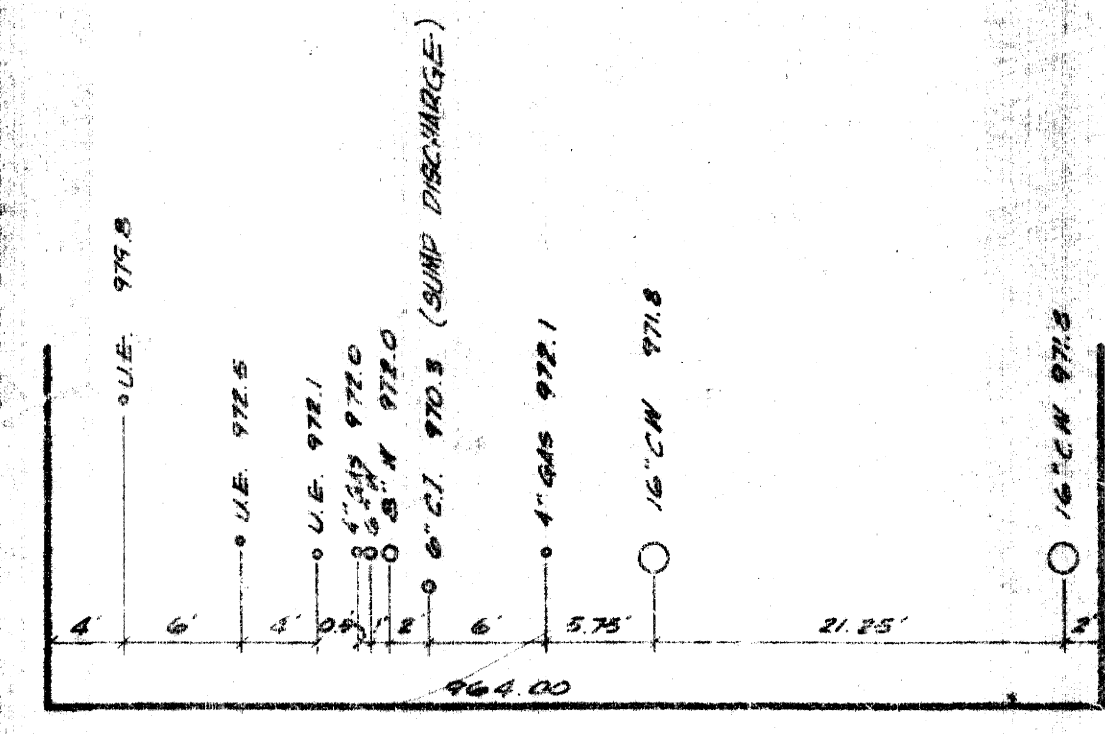
**AS-BUILT DRAWING**  
 REVISIONS MADE DURING CONSTRUCTION HAVE BEEN INCLUDED ON THIS DRAWING  
 MASON & HANGER - SILAS MASON CO., INC.  
 BY GFS DATE 1-10-72  
 NO REVISIONS

- ELECTRICAL MONUMENT
- GAS
- TREE OR SPERM
- UE UNDERGROUND ELECTRIC
- SY STORM SEWER
- SAN SANITARY SEWER
- UT UNDERGROUND TELEPHONE
- W WATER

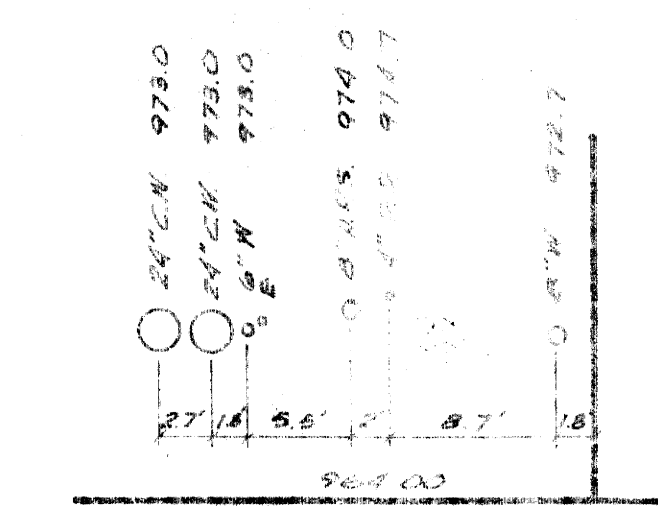
GRAPHIC SCALE 1" = 100'  
 U.S.G.S. DATUM



SECTION A-A



SECTION B-B

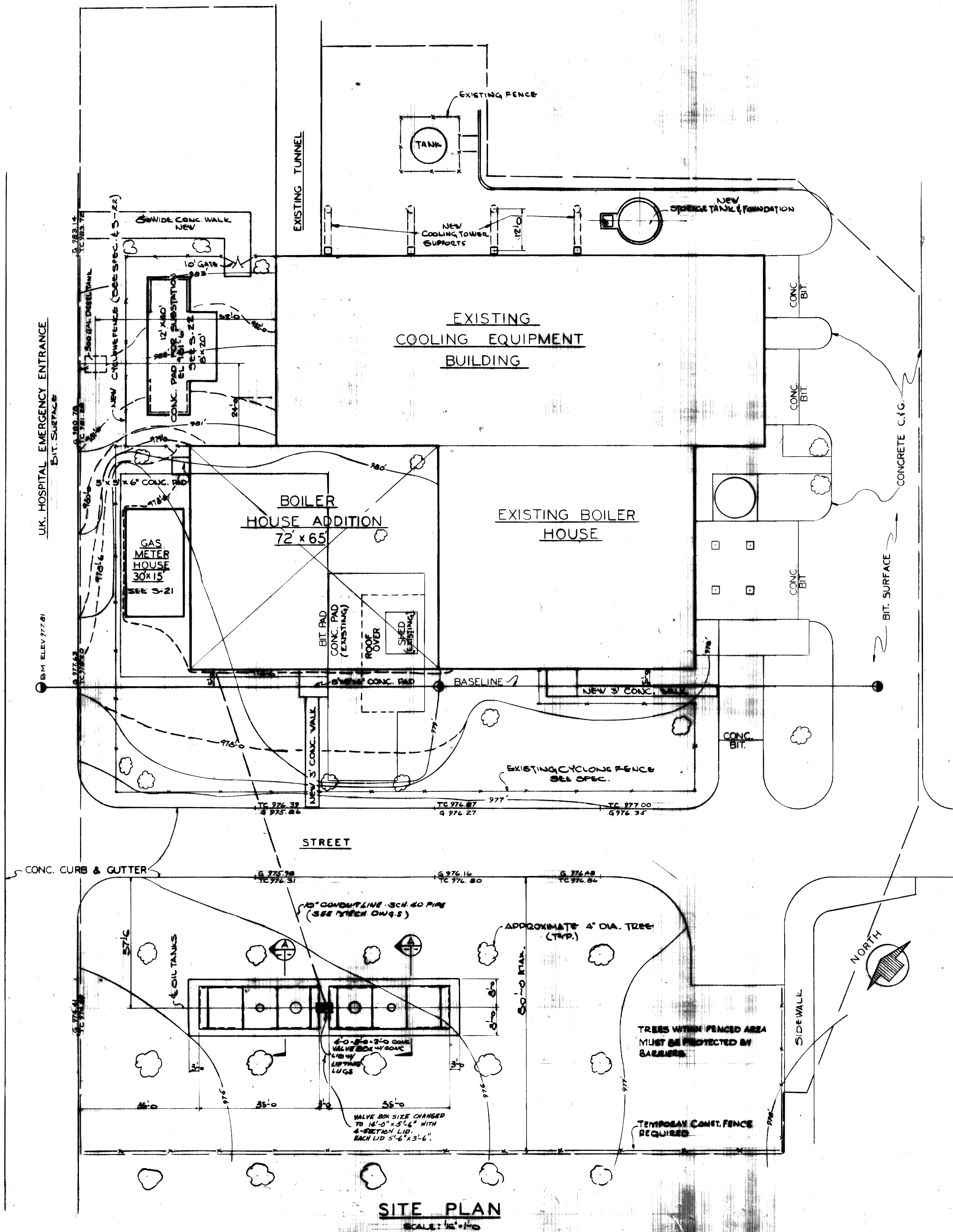


SECTION C-C

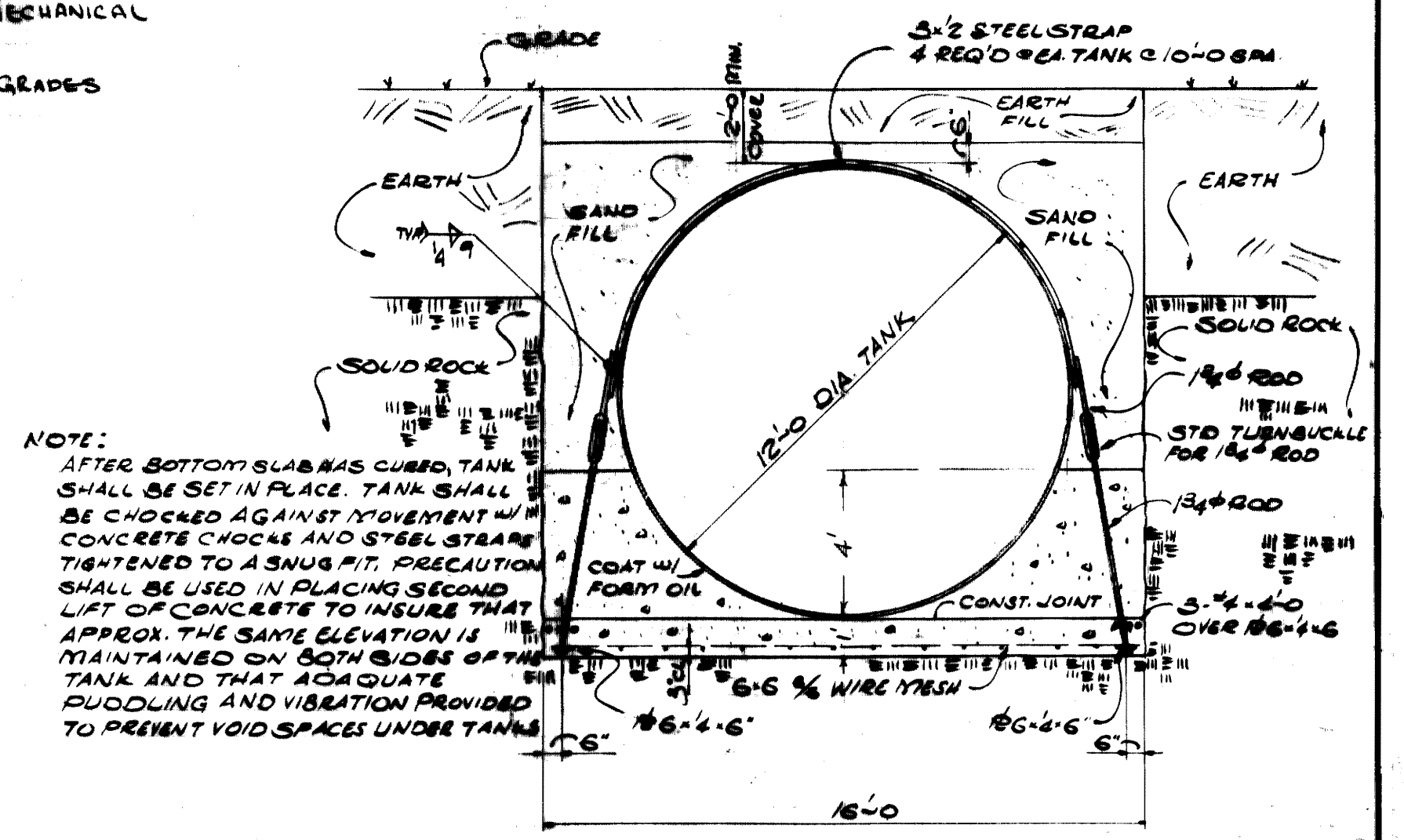
SITE SURVEY PREPARED BY  
**DAUGHERTY ENGINEERS**  
 366 WALLER AVENUE  
 LEXINGTON KENTUCKY



ADDITIONS & RENOVATIONS	
HEATING & COOLING PLANT - A. B. CHANDLER MEDICAL CENTER	
UNIVERSITY OF KENTUCKY LEXINGTON, KENTUCKY	
DRAWN BY <b>Z.U.</b>	SITE SURVEY DATE 5-28-70
TRACED BY	MASON & HANGER - SILAS MASON CO., INC. SCALE 1" = 30'
CHECKED BY <b>M.D.</b>	1500 W. MAIN ST. LEXINGTON, KENTUCKY SPEC. NO.
COMMONWEALTH OF KENTUCKY DEPARTMENT OF FINANCE DIVISION OF ENGINEERING FRANKFORT KENTUCKY	DRAWING NO. <b>C-2</b>
APPROVED BY <i>C.P. Marshall</i>	DATE 5-28-70
APPROVED BY <i>W.D. McConnell</i>	DATE 6-1-70

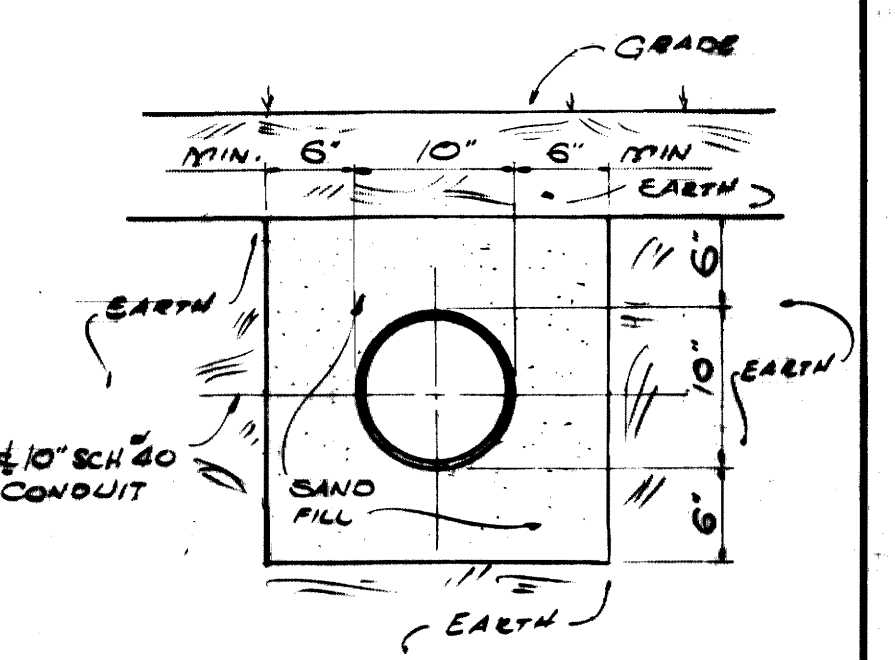


NOTES:  
 SEE SPECIFICATIONS FOR REMOVAL OF EXISTING ITEMS WITHIN CONSTRUCTION LIMITS  
 --- INDICATES CONSTRUCTION LIMITS SHEET FOR ELECTRICAL AND MECHANICAL WIRING AND PIPING.  
 DASHED CONTOURS ARE FOR PROPOSED GRADES



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

NOTES:  
 1) 10" FUEL OIL CONDUIT LINE IS TO BE LAID ON A STRAIGHT GRADE. INVERT ELEVATIONS AT VALVE BOX = 978.7' AND AT EDGE OF BUILDING = 974.8'. CONDUIT TRENCH IS TO BE UNDESCUT 6" BELOW INVERT ELEVATION AND BACKFILLED TO INVERT ELEV. WITH SAND BEFORE CONDUIT IS PLACED. CONDUIT TRENCH IS TO BE BACKFILLED WITH SAND TO AN ELEVATION 6" ABOVE CONDUIT AND REMAINING DEPTH FILLED WITH COMPACTED EARTH. UNDER EXISTING STREET, CONDUIT TRENCH IS TO BE BACKFILLED WITH SAND AND TAMPED TO AN ELEVATION 4" BELOW TOP OF PAVEMENT. FILL REMAINING DEPTH OF TRENCH WITH TWO LAYERS OF COMPACTED SLICK TOP.  
 2) FUEL OIL TANKS ARE TO BE SET ON A GRADE. TOP OF TANKS ELEVATION AT VALVE BOX END = 973.2' AND AT OTHER END = 972.7'

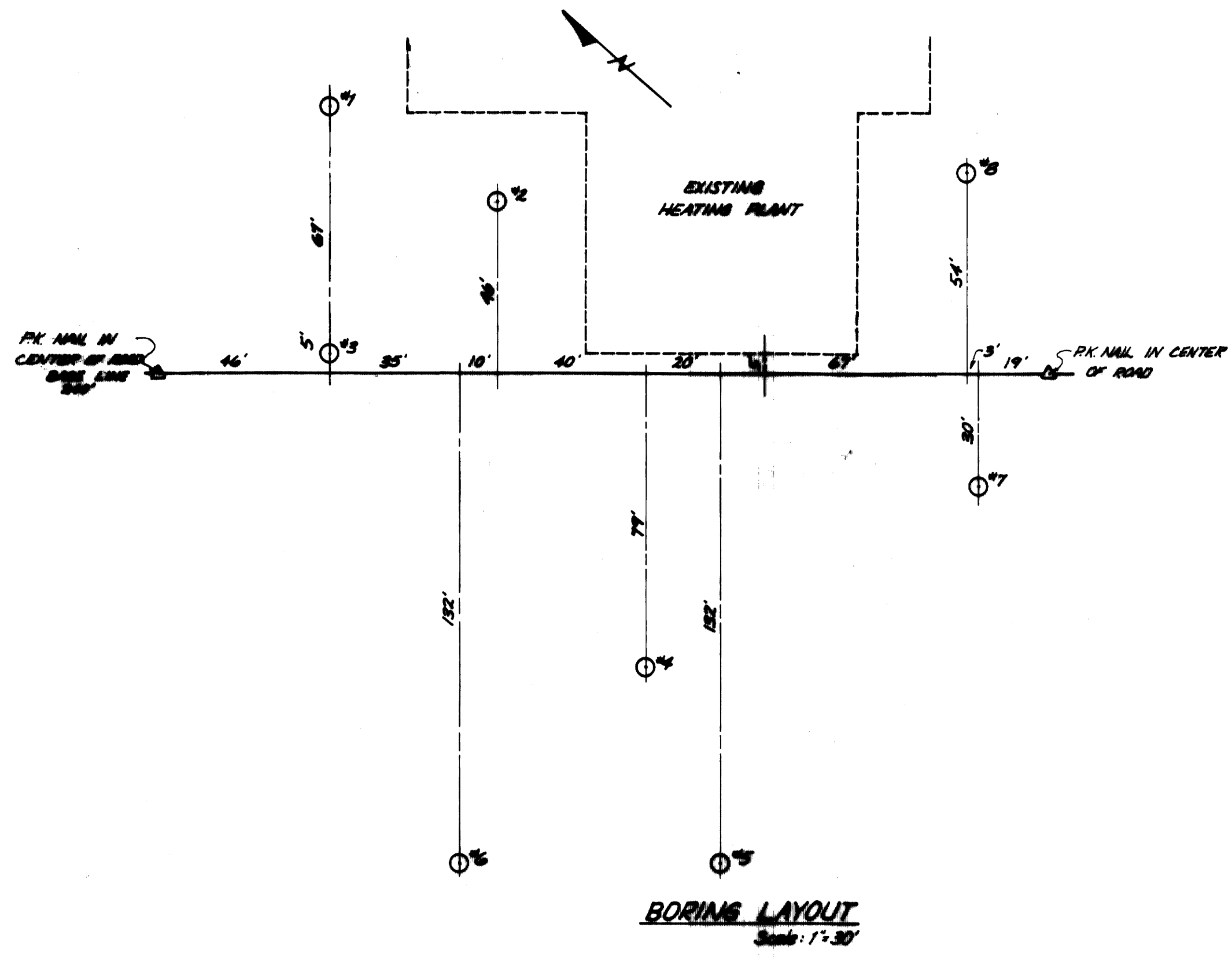


TYP. TRENCH & CONDUIT DETAIL  
 SCALE: 1" = 1'-0"

**AS-BUILT DRAWING**  
 REVISIONS MADE DURING CONSTRUCTION HAVE BEEN INCLUDED ON THIS DRAWING  
 MASON & HANGER - SILAS MASON CO., INC.  
 BY GFS DATE 1-10-72  
 REVISION DIMENSIONS ON CONCRETE DEPTHS UNDER TANKS  
 REVISION VALVE BOX SIZE TO OIL TANKS

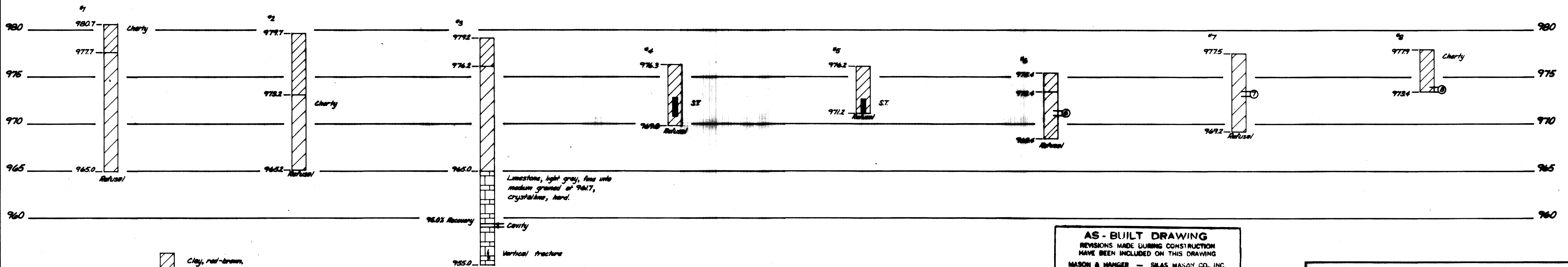
ADDITIONS & RENOVATIONS		
HEATING & COOLING PLANT - A. B. CHANDLER MEDICAL CENTER		
UNIVERSITY OF KENTUCKY LEXINGTON, KENTUCKY		
DRAWN BY	SITE PLAN - STRUCTURAL	DATE
B.C.		5-28-70
TRACED BY	MASON & HANGER - SILAS MASON CO., INC.	SCALE
	1800 W. MAIN ST.	AS NOTED
CHECKED BY	LEXINGTON, KENTUCKY	SPEC. NO.
P.F.H.		
COMMONWEALTH OF KENTUCKY		DRAWING NO.
DEPARTMENT OF FINANCE		C-3
DIVISION OF ENGINEERING		
FRANKFORT, KENTUCKY		
APPROVED BY	<i>[Signature]</i>	DATE
	PROJECT HEAD	5-28-70
APPROVED BY	<i>[Signature]</i>	DATE
	DIRECTOR DIVISION OF ENGINEERING	6-1-70





**CHEMICAL ANALYSES TEST RESULTS**

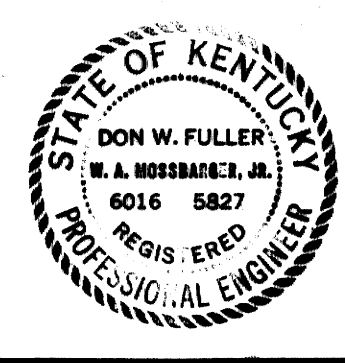
BORING NO.	SAMPLE DEPTH	SAMPLE ELEVATION	Parts Per Million					PH	CONDUCTIVITY (micromhos/cm)	RESISTIVITY (milohm-cm)	
			Na	K	Ca	Mg	Cl				SO <sub>4</sub>
6	4.0'	971.4'	51	140	3250	190	55	5	57	0.4	2.50
7	4.0'	973.4'	56	127	3350	180	106	74	6.8	0.8	1.25
8	4.0'	973.9'	64	90	3050	310	50	48	7.2	0.6	1.67

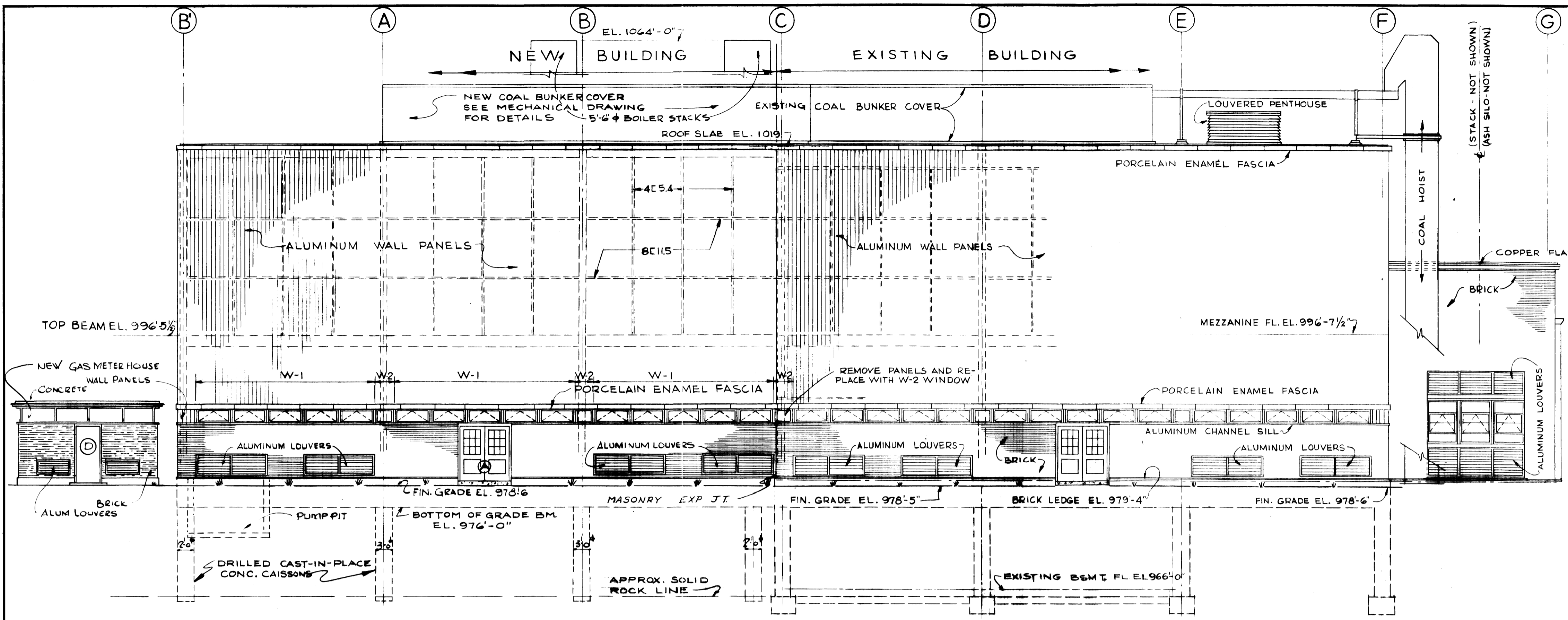


**AS-BUILT DRAWING**  
REVISIONS MADE DURING CONSTRUCTION  
HAVE BEEN INCLUDED ON THIS DRAWING  
MASON & HANGER - SILAS MASON CO., INC.  
BY: GFS DATE: 1-10-72  
NO. EMBELLIONS

ADDITIONS & RENOVATIONS		
HEATING & COOLING PLANT - A. B. CHANDLER MEDICAL CENTER		
UNIVERSITY OF KENTUCKY LEXINGTON, KENTUCKY		
DRAWN BY R.J.D.	SUBSURFACE INVESTIGATION	DATE 12/29/69
TRACED BY	MASON & HANGER - SILAS MASON CO., INC. 1800 W. MAIN ST. LEXINGTON, KENTUCKY	SCALE AS NOTED
CHECKED BY		SPEC. NO.
COMMONWEALTH OF KENTUCKY DEPARTMENT OF FINANCE DIVISION OF ENGINEERING FRANKFORT, KENTUCKY		DRAWING NO. C-4
APPROVED BY <i>[Signature]</i>	AGENCY HEAD	DATE 5-28-70
APPROVED BY <i>[Signature]</i>	DIRECTOR, DIVISION OF ENGINEERING	DATE 6-1-70

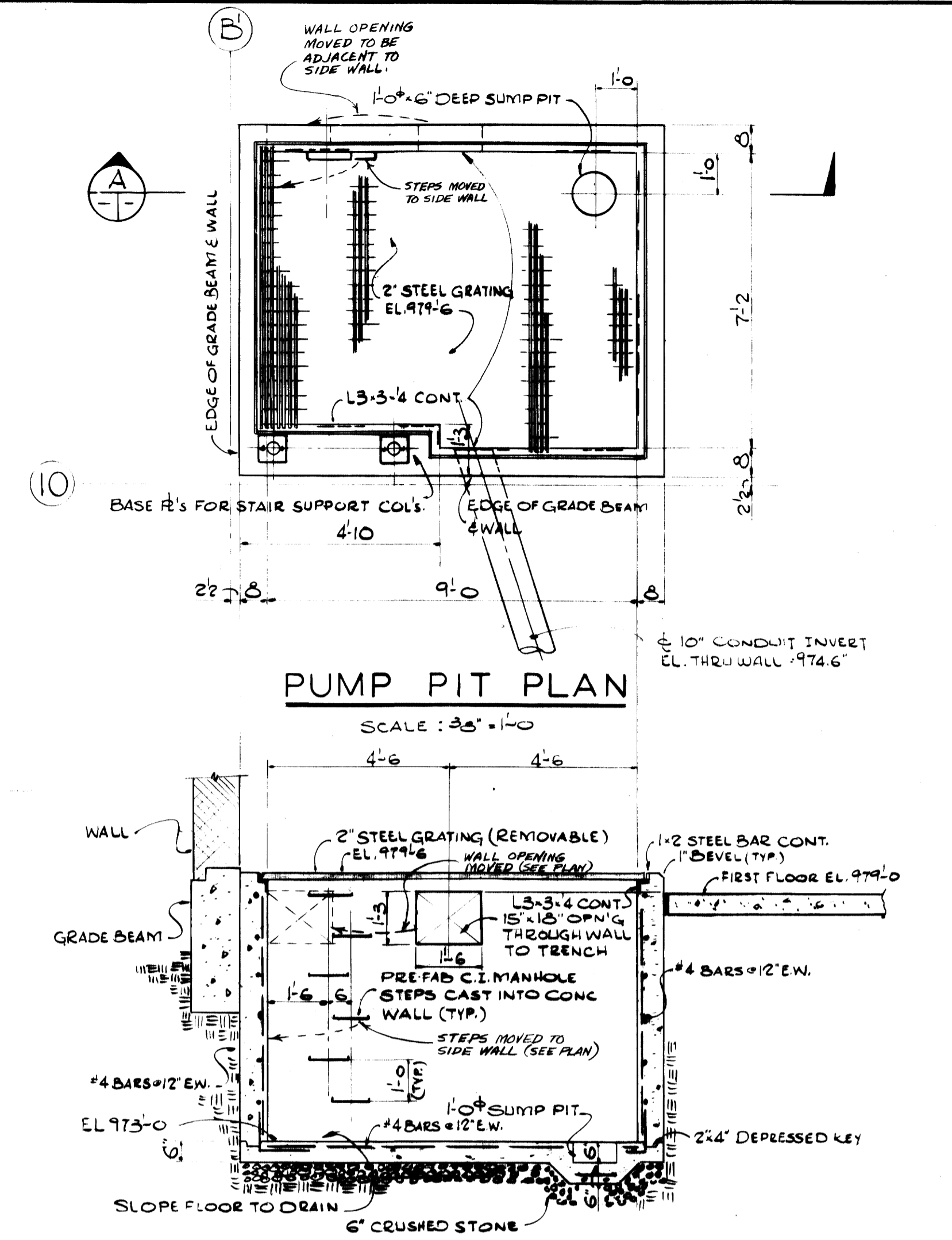
FULLER, MOSSBARGER & SCOTT  
CIVIL ENGINEERS INC.  
LEXINGTON, KENTUCKY





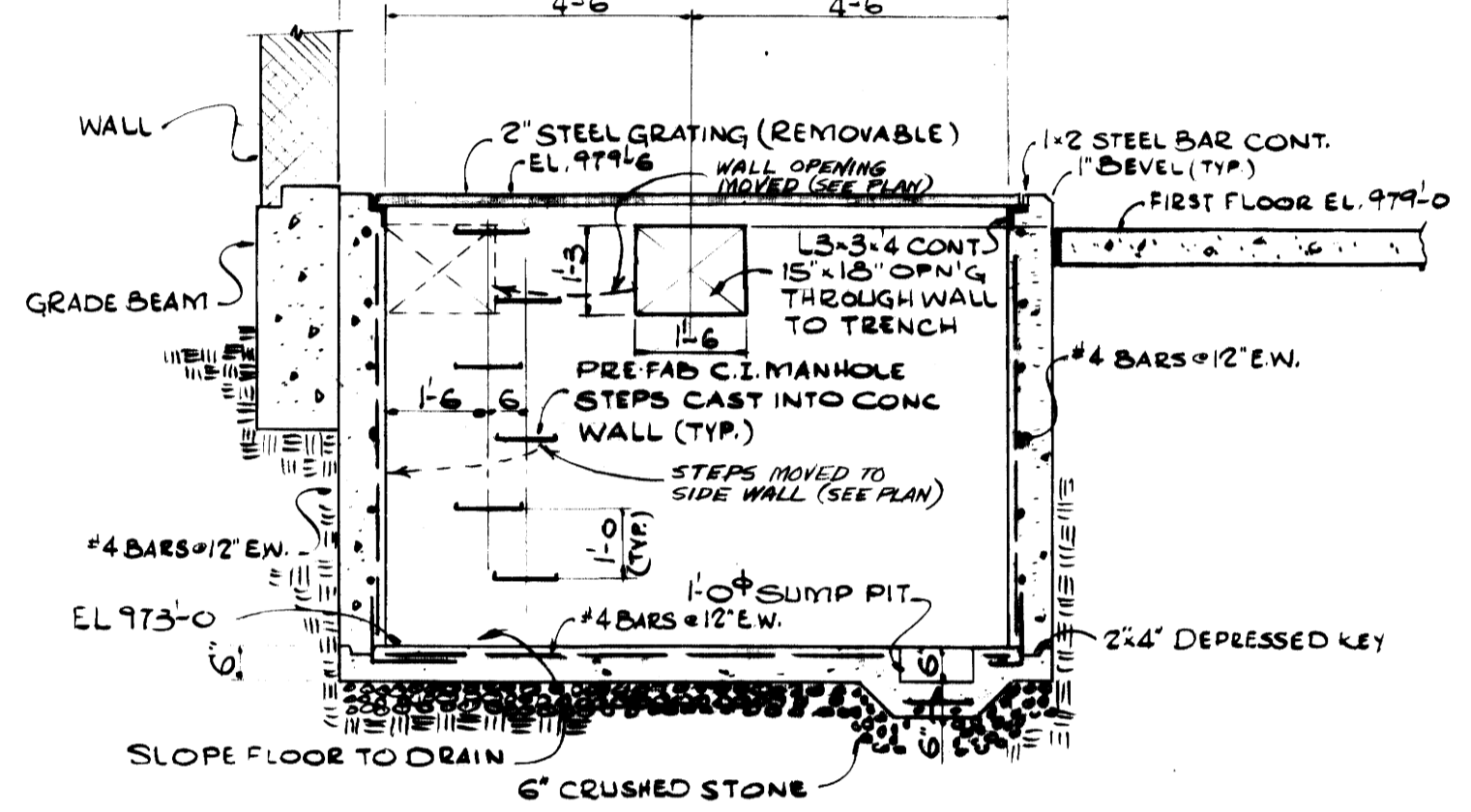
SOUTH ELEVATION

SCALE: 1/8" = 1'-0"



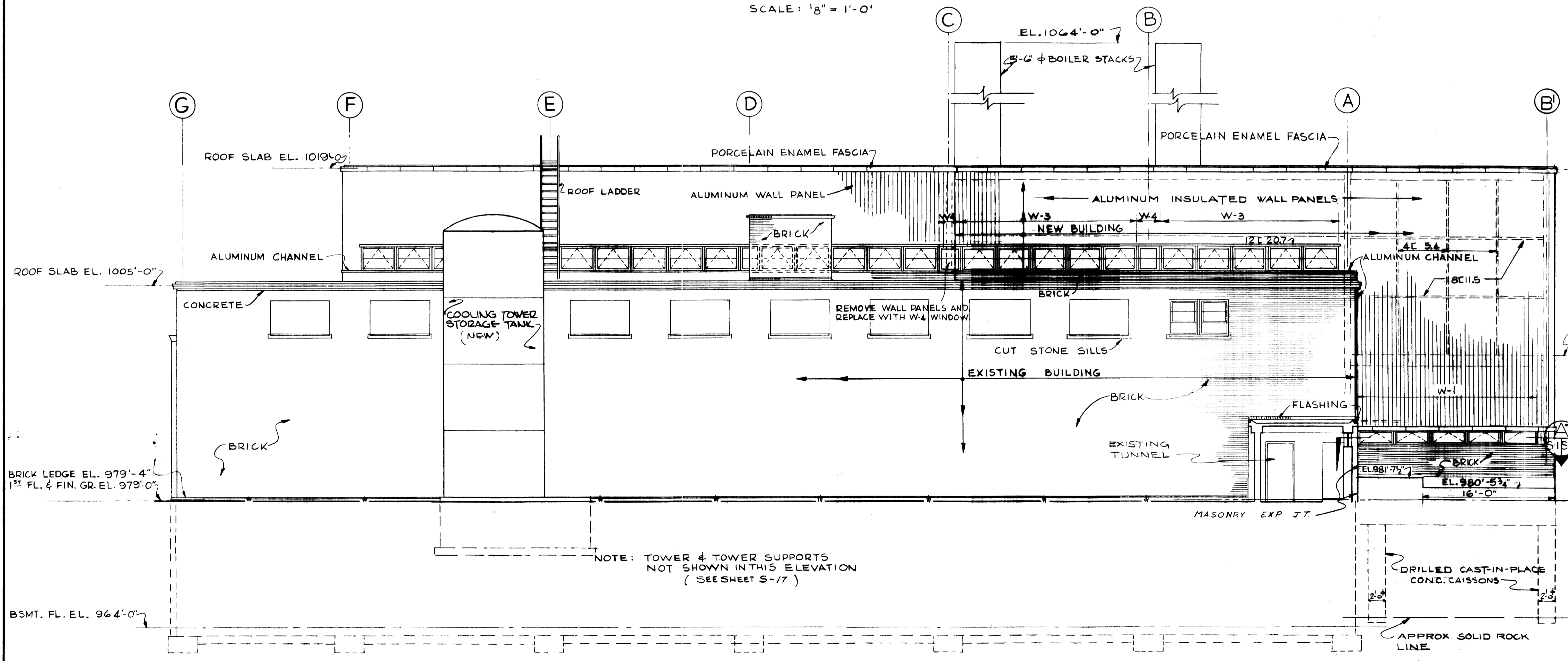
PUMP PIT PLAN

SCALE: 3/8" = 1'-0"



SECTION A-A

SCALE: 3/8" = 1'-0"



NORTH ELEVATION

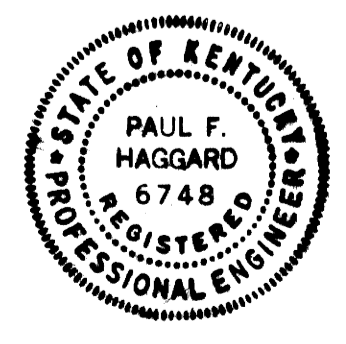
SCALE: 1/8" = 1'-0"

**AS-BUILT DRAWING**  
 REVISIONS MADE DURING CONSTRUCTION  
 HAVE BEEN INCLUDED ON THIS DRAWING  
 MASON & HANGER - SILAS MASON CO., INC.  
 BY GFS DATE 1-10-72  
 RELOCATED PUMP PIT STEPS  
 & WALL OPENING

NOTE: ELECTRICAL SUB-STATION  
 AND CYCLONE FENCE NOT SHOWN  
 IN THIS ELEVATION. (SEE SHEET S-22)

NOTE: TOWER & TOWER SUPPORTS  
 NOT SHOWN IN THIS ELEVATION  
 (SEE SHEET S-17)

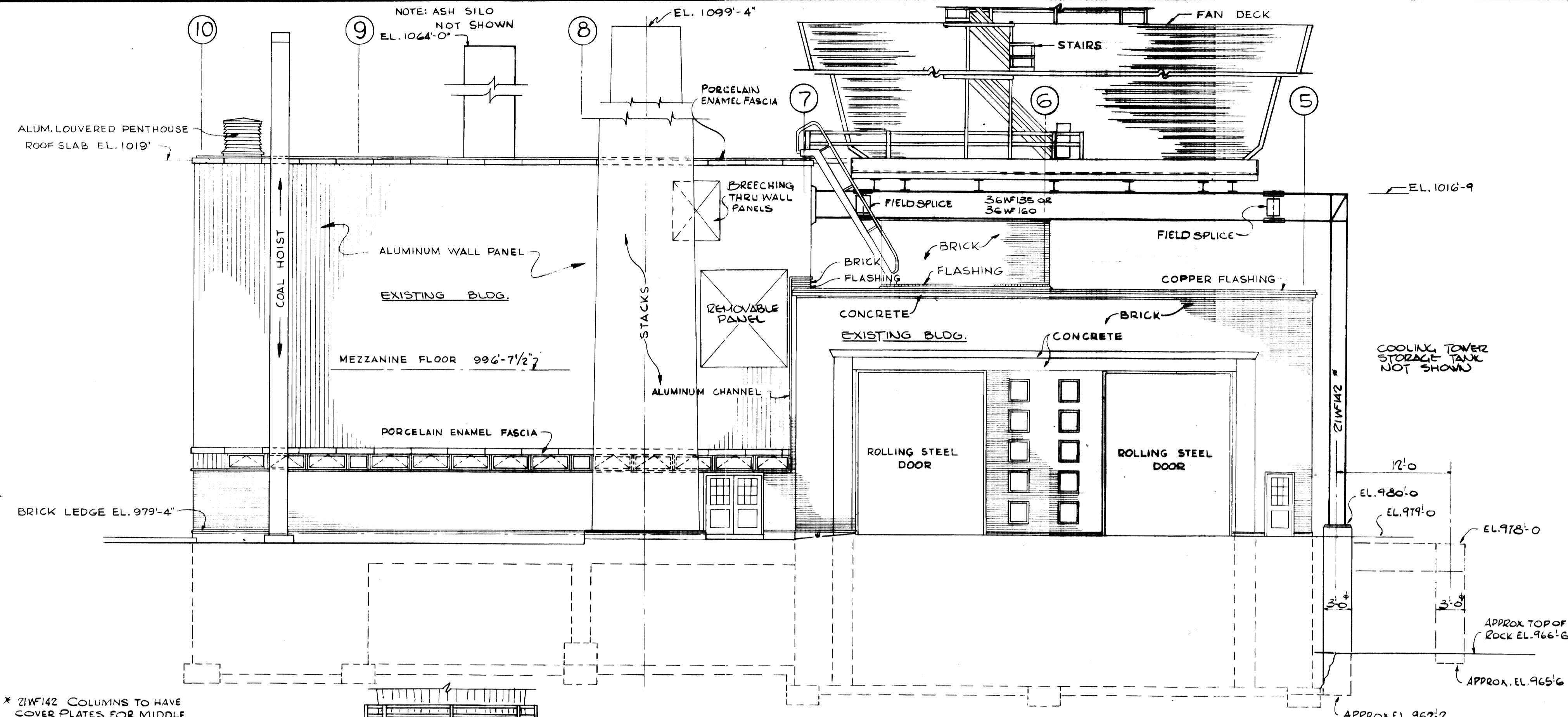
ADDITIONS & RENOVATIONS		
HEATING & COOLING PLANT - A. B. CHANDLER MEDICAL CENTER		
UNIVERSITY OF KENTUCKY LEXINGTON, KENTUCKY		
DRAWN BY A.P.	ELEVATIONS	DATE 5-28-70
TRACED BY P.F.H.	MASON & HANGER - SILAS MASON CO., INC. 1500 W. MAIN ST. LEXINGTON, KENTUCKY	SCALE AS NOTED SPEC. NO.
CHECKED BY P.F.H.	COMMONWEALTH OF KENTUCKY DEPARTMENT OF FINANCE DIVISION OF ENGINEERING FRANKFORT, KENTUCKY	DRAWING NO. S-1
APPROVED BY <i>[Signature]</i> AGENCY HEAD	DATE 5-28-70	
APPROVED BY <i>[Signature]</i> DIRECTOR, DIVISION OF ENGINEERING	DATE 6-1-70	



GENERAL STRUCTURAL NOTES

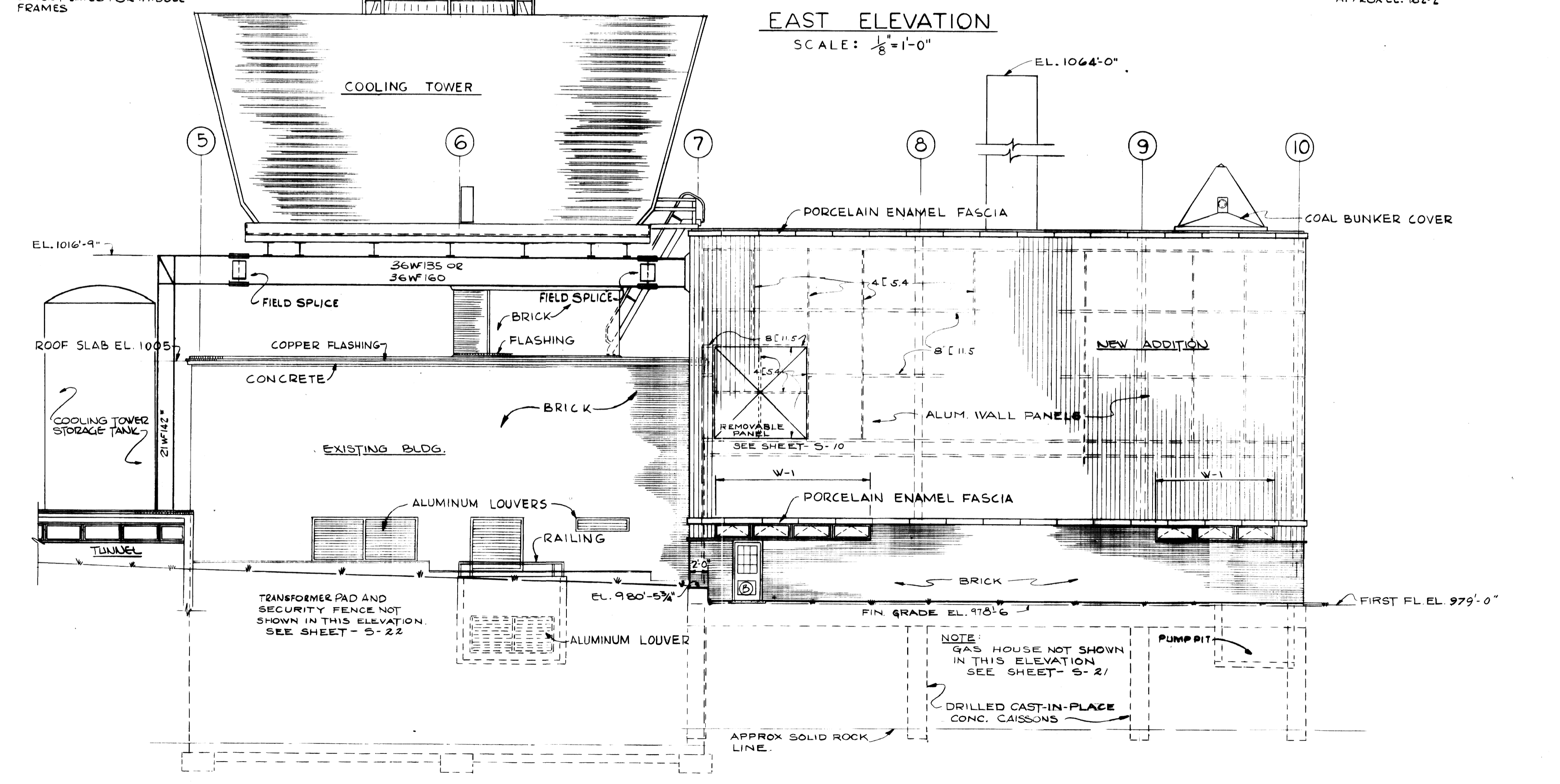
- ① FOUNDATIONS:
  - A. BEARING VALUE OF ROCK SHALL BE 40,000 LBS. PER SQ. FT.
  - B. BEARING VALUE OF SOIL SHALL BE 3,000 LBS. PER SQ. FT.
- ② DESIGN STRESSES
  - f<sub>c</sub> CONCRETE AT 28 DAYS 3,000 LBS. PER SQ. INCH EXCEPT
  - f<sub>c</sub> CONCRETE AT 28 DAYS 5,000 LBS. PER SQ. INCH, TO BE USED FOR COOLING TOWER FOUNDATIONS
  - f<sub>s</sub> REINFORCING STEEL 20,000 LBS. PER SQ. INCH. STRUCTURAL STEEL STRESSES ARE FOR A36 STEEL AND ARE GOVERNED BY A.I.S.C. CODE.
- ③ CODES USED FOR DESIGN:
  - BUILDING OFFICIALS CONFERENCE OF AMERICA BASIC BUILDING CODE, (1965).
  - A.I.S.C. MANUAL OF STEEL CONSTRUCTION, (1963).
  - AC.I. BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE (A.C.I. 318-63)
  - A.W.S. CODE FOR WELDING IN BUILDING CONSTRUCTION, (1967).
- ④ FABRICATION AND ERECTION OF STRUCTURAL STEEL MEMBERS GOVERNED BY A.I.S.C. CODE OF STANDARD PRACTICE.
- ⑤ ALL REINFORCEMENT TO BE STANDARD A305 REINFORCING BARS.
- ⑥ ALL REINFORCING BARS SHALL BE TIED AND SUPPORTED IN SUCH A MANNER AS TO PREVENT DISPLACEMENT DURING POURING OPERATIONS. REINFORCEMENT VENDOR TO FURNISH ALL ACCESSORIES, CHAIRS, SPACER BARS AND SUPPORTS NECESSARY TO SECURE STEEL IN ACCORDANCE TO ACI. CODE OF STANDARD PRACTICE AND AS DETAILED ON PLANS.
- ⑦ 1" BEVEL ON ALL EXPOSED CORNERS OF COLUMNS AND BEAMS UNLESS OTHERWISE SHOWN.
- ⑧ SPLICE IN TENSION REINFORCEMENT = 30 BAR DIAMETERS.
- ⑨ ALL SLABS ON GRADE TO BE POURED ON FIRM UNDISTURBED EARTH OR ON WELL COMPACTED FILL. PROVIDE 6" CRUSHED STONE AND VAPOR BARRIER UNDER ALL SLABS. SLABS TO BE REINFORCED WITH 6"x6" - 3/4" WELDED WIRE FABRIC, UNLESS OTHERWISE INDICATED.
- ⑩ PROVIDE DOWELS OR EXTENSION OF MAIN REINFORCEMENT IN WALLS, BEAMS, ETC., FOR ANY CONCRETE WORK NOT POURED AT THE TIME ORIGINAL WORK IS POURED. DOWELS TO BE SAME SIZE AS MAIN REINFORCING CONNECTED WORK AND SHALL LAP 24 BAR DIAMETERS UNLESS OTHERWISE DETAILED.
- ⑪ DURING THE CONSTRUCTION PERIOD ALL WALLS ARE TO BE HELD PLUMB AND IN LINE UNTIL SLABS CONNECTING TO WALLS ARE IN PLACE.
- ⑫ ALL PLUMBING THAT DOES NOT HAVE A FRAMED OPENING LOCATED OR SHOWN ON DRAWINGS IS TO BE SLEEVED THROUGH CONCRETE.
- ⑬ FOR SIZE AND LOCATION OF OPENINGS SEE MECHANICAL DRAWINGS. ALL DIMENSIONS FOR MECHANICAL EQUIPMENT SHALL BE CHECKED AND VERIFIED BY MECHANICAL CONTRACTOR.
- ⑭ CONCRETE COVERAGE FOR REINFORCEMENT:
 

BEAMS	1 1/2"
COLUMNS	1 1/2"
DRILLED IN CAISSONS	2"
WALLS	2" UNLESS DIMENSIONED
FOOTINGS	3"
SLABS	3 1/4"
- ⑮ PROVIDE 2-#6 BARS EACH SIDE OF ALL OPENINGS IN CONCRETE WALLS, SLABS, ETC., UNLESS OTHERWISE SHOWN. BARS TO EXTEND 2'-0" PAST FACE OF OPENING.
- ⑯ AT CORNERS OF CONCRETE FOUNDATION BEAMS, WALLS, PITS, ETC., PROVIDE 5'-0" LONG #5 CORNER BARS ON 12" CENTERS.
- ⑰ TEMPERATURE REINFORCEMENT FOR SLABS, WALLS, ETC., TO BE #4 @ 15" C/C AND AT RIGHT ANGLES TO MAIN REINFORCEMENT, UNLESS OTHERWISE SHOWN.
- ⑱ DURING THE CONSTRUCTION PERIOD IT IS THE CONTRACTOR'S RESPONSIBILITY TO CHECK ALL DIMENSIONS AND SECTIONS SHOWN ON THE STRUCTURAL DRAWINGS AND TO REPORT TO THE ENGINEER ANY DISCREPANCIES FOUND.
- ⑳ THESE STRUCTURAL DRAWINGS AND DETAILS REPRESENT THE DESIRED RESULT OF CONSTRUCTION. THE METHODS OF CONSTRUCTION AND THE RISKS INVOLVED DURING CONSTRUCTION ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. CONTRACTOR SHALL ADOPT A METHOD OF CONSTRUCTION WHICH WILL MINIMIZE THE INTERFERENCE WITH THE OPERATION OF EXISTING BOILER PLANT.



EAST ELEVATION

SCALE: 1/8" = 1'-0"



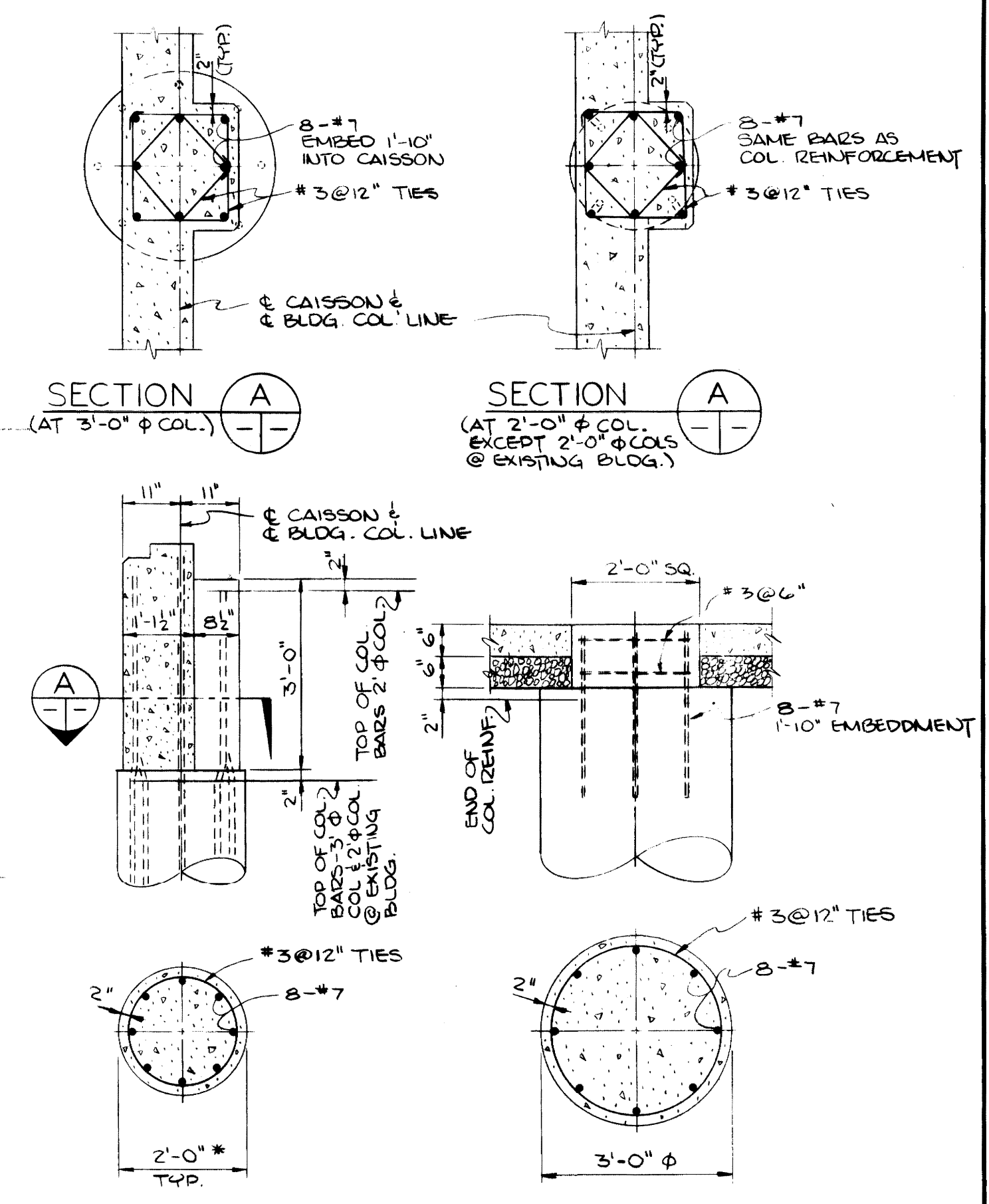
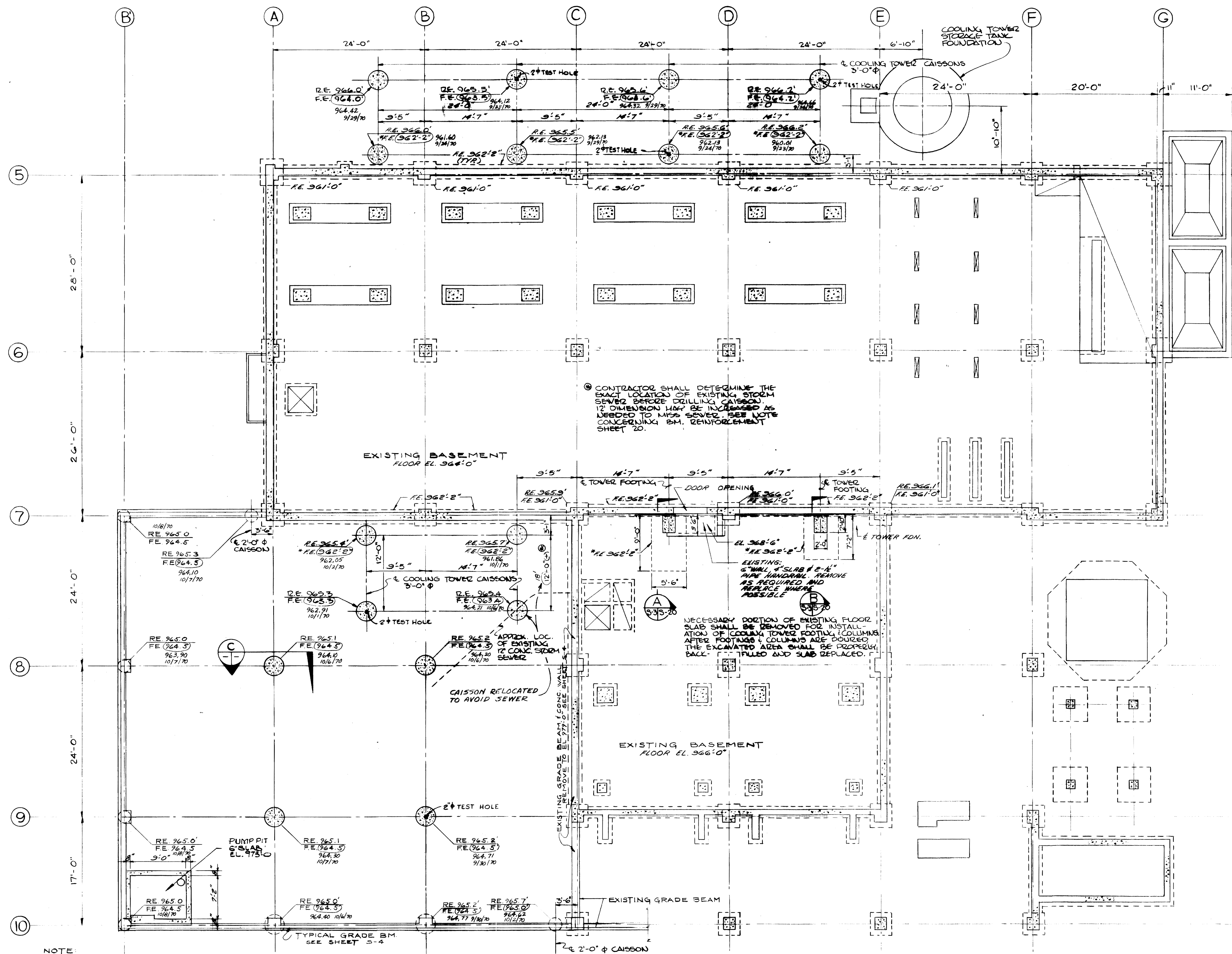
WEST ELEVATION

SCALE 1/8" = 1'-0"

**AS-BUILT DRAWING**  
 REVISIONS MADE DURING CONSTRUCTION  
 HAVE BEEN INCLUDED IN THIS DRAWING  
 MASON & HANGER - SILAS MASON CO., INC.  
 BY GFS DATE 1-10-72  
 CORRECTED IN PL. ELEVATION

ADDITIONS & RENOVATIONS		
HEATING & COOLING PLANT - A. B. CHANDLER MEDICAL CENTER UNIVERSITY OF KENTUCKY LEXINGTON, KENTUCKY		
DRAWN BY A.P.	ELEVATIONS & GENERAL NOTES	DATE 5-28-70
TRACED BY J.D.W.	MASON & HANGER - SILAS MASON CO., INC. 1500 W. MAIN ST. LEXINGTON, KENTUCKY	SCALE AS NOTED
CHECKED BY D.F.H.	COMMONWEALTH OF KENTUCKY DEPARTMENT OF FINANCE DIVISION OF ENGINEERING FRANKFORT, KENTUCKY	SPEC. NO. DRAWING NO. S-2
APPROVED BY <i>C. J. Marshall</i> AGENCY HEAD	DATE 5-28-70	
APPROVED BY <i>W. J. McCombs</i> DIRECTOR, DIVISION OF ENGINEERING	DATE 6-1-70	





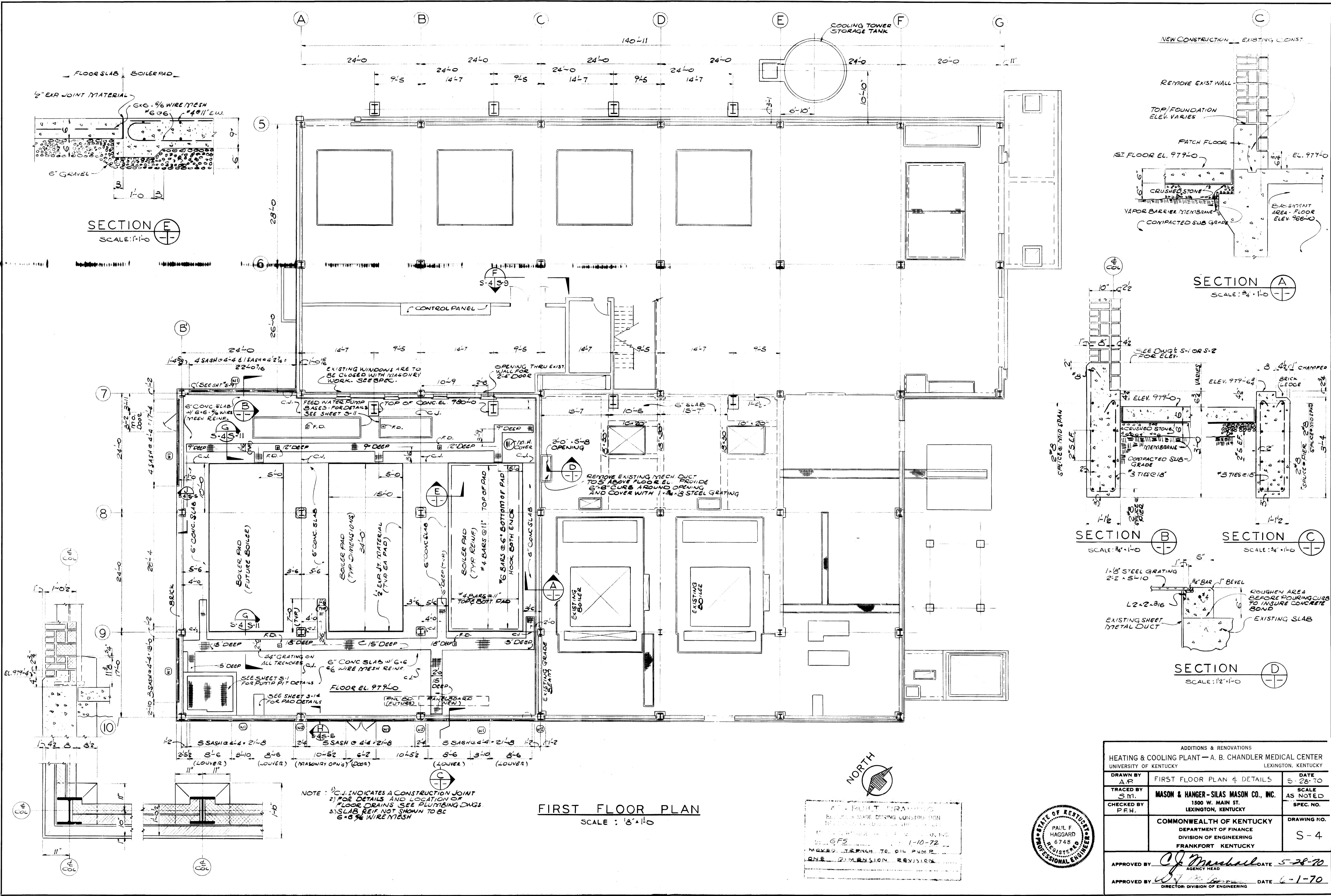
**BASEMENT PLAN & FOUNDATION**  
 SCALE: 1/8" = 1'-0"

AS-BUILT  
 1-10-72  
 NOTED - RELOCATED CAISSON  
 ACTUAL FOOTING ELEVATIONS & CONC. POURING RATES

ADDITIONS & RENOVATIONS			
HEATING & COOLING PLANT - A. B. CHANDLER MEDICAL CENTER			
UNIVERSITY OF KENTUCKY		LEXINGTON, KENTUCKY	
DRAWN BY	FOUNDATION PLAN & DETAILS	DATE	5-28-70
TRACED BY	MASON & HANGER-SILAS MASON CO., INC.	SCALE	AS NOTED
CHECKED BY	P.E.H.	LEXINGTON, KENTUCKY	SPEC. NO.
COMMONWEALTH OF KENTUCKY			DRAWING NO.
DEPARTMENT OF FINANCE			6748
DIVISION OF ENGINEERING			S-3
FRANKFORT KENTUCKY			
APPROVED BY	<i>[Signature]</i>	DATE	5-28-70
AGENCY HEAD			
APPROVED BY	<i>[Signature]</i>	DATE	6-1-70
DIRECTOR, DIVISION OF ENGINEERING			







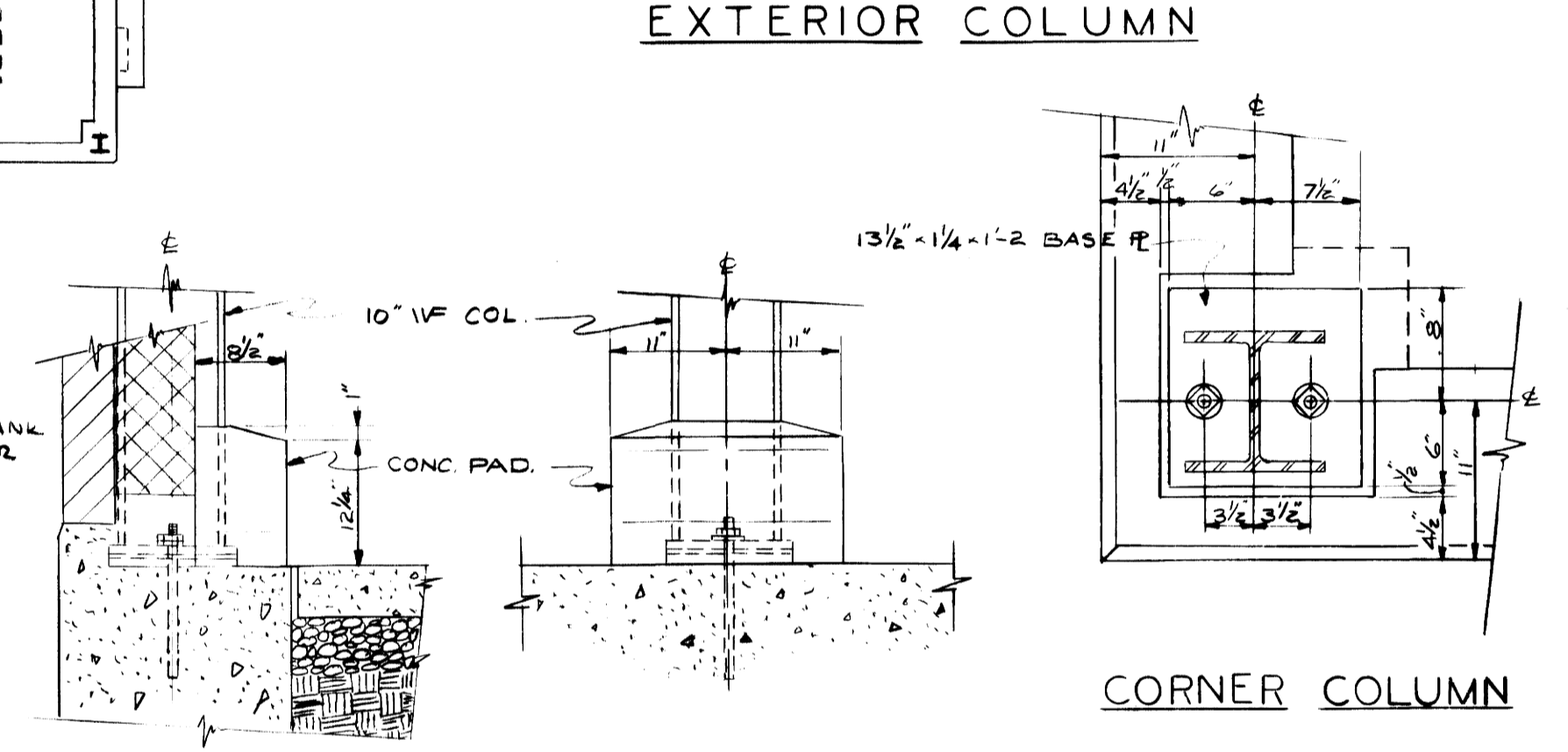
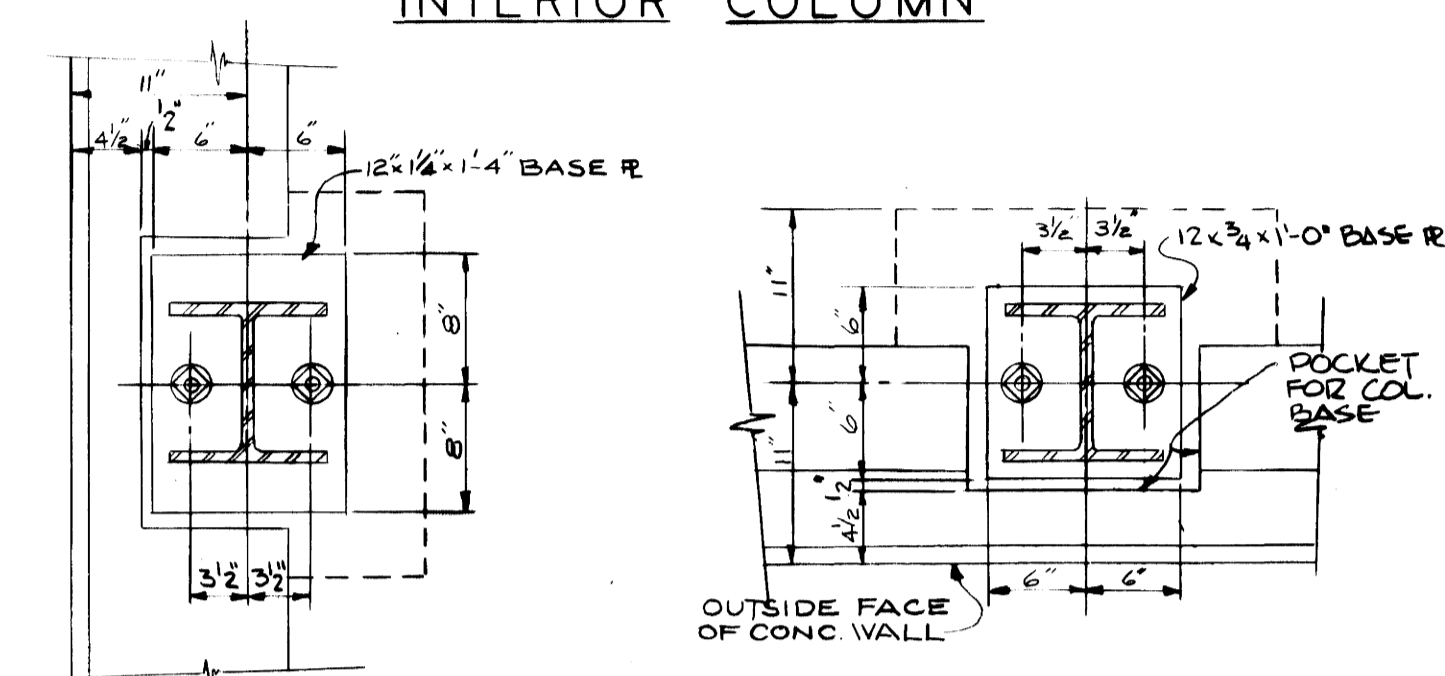
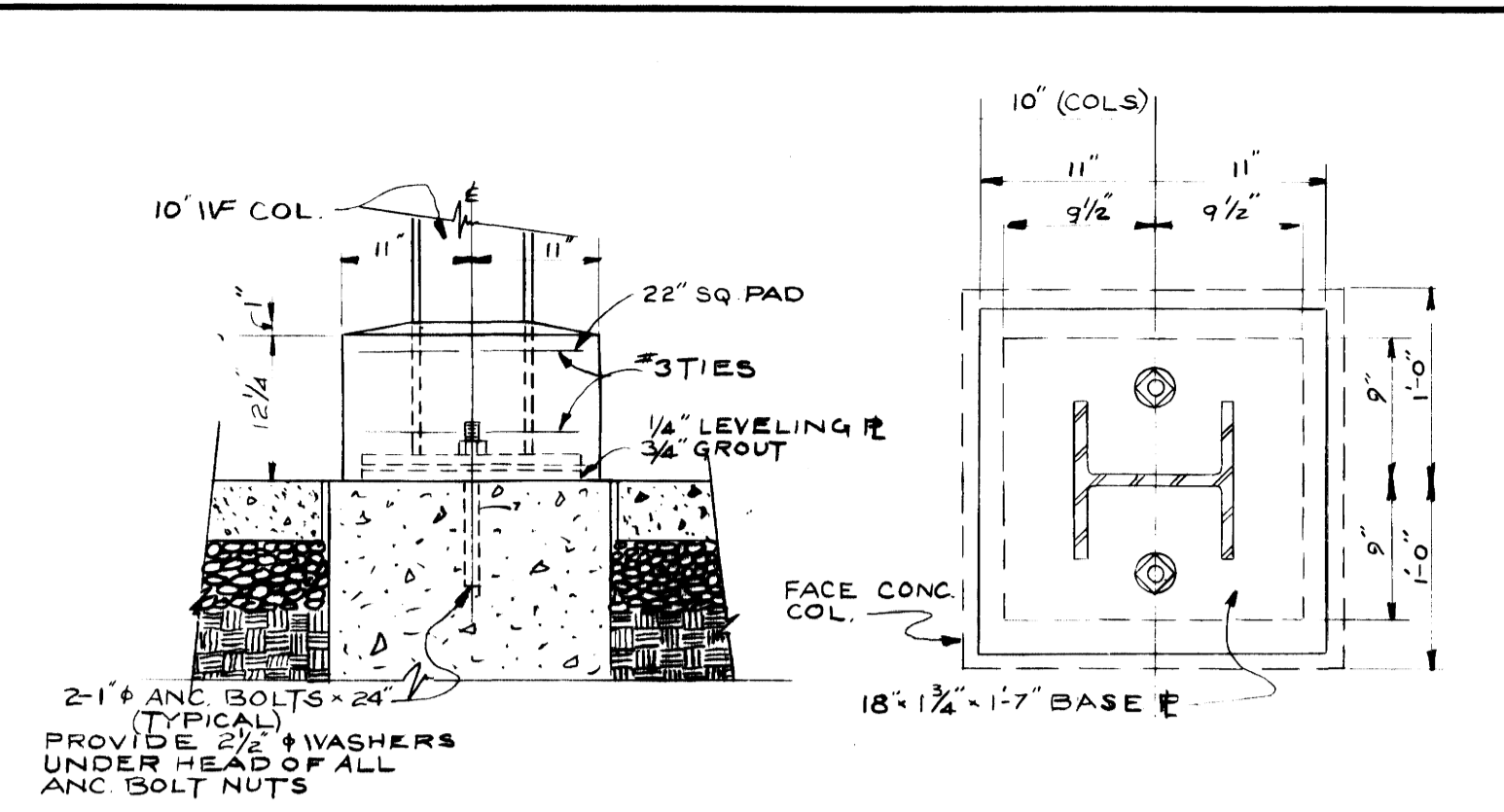
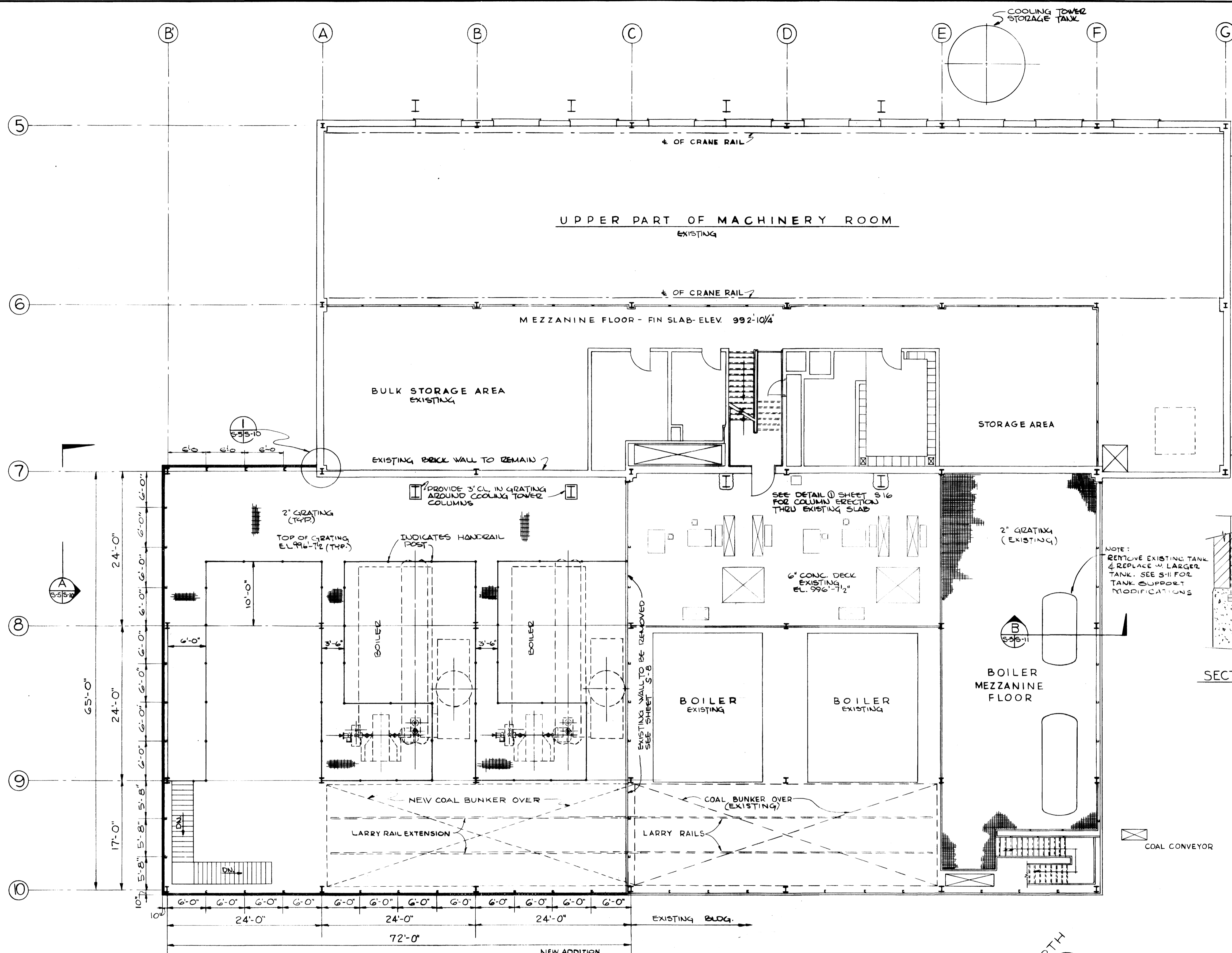
**FIRST FLOOR PLAN**  
SCALE: 1/8" = 1'-0"

NOTE: 1) C.I. INDICATES A CONSTRUCTION JOINT  
2) FOR DETAILS AND LOCATION OF FLOOR DRAINS SEE PLUMBING DINGS.  
3) SLAB REIF NOT SHOWN TO BE 6" @ 6" WIRE MESH

2-D DIMENSION DRAWING  
REVISIONS MADE DURING CONSTRUCTION  
BY MASON & HANGER-SILAS MASON CO., INC.  
DATE 1-10-72  
MOVED TRENCH TO OIL PUMP  
ONE DIMENSION REVISION



ADDITIONS & RENOVATIONS		
HEATING & COOLING PLANT - A. B. CHANDLER MEDICAL CENTER UNIVERSITY OF KENTUCKY LEXINGTON, KENTUCKY		
DRAWN BY A.P.	FIRST FLOOR PLAN & DETAILS	DATE 5-28-70
TRACED BY S.M.	MASON & HANGER-SILAS MASON CO., INC. 1500 W. MAIN ST. LEXINGTON, KENTUCKY	SCALE AS NOTED SPEC. NO.
CHECKED BY P.F.H.	COMMONWEALTH OF KENTUCKY DEPARTMENT OF FINANCE DIVISION OF ENGINEERING FRANKFORT, KENTUCKY	DRAWING NO. S-4
APPROVED BY <i>C. Marshall</i>	AGENCY HEAD	DATE 5-28-70
APPROVED BY <i>W. J. ...</i>	DIRECTOR, DIVISION OF ENGINEERING	DATE 6-1-70



COLUMN BASE DETAILS

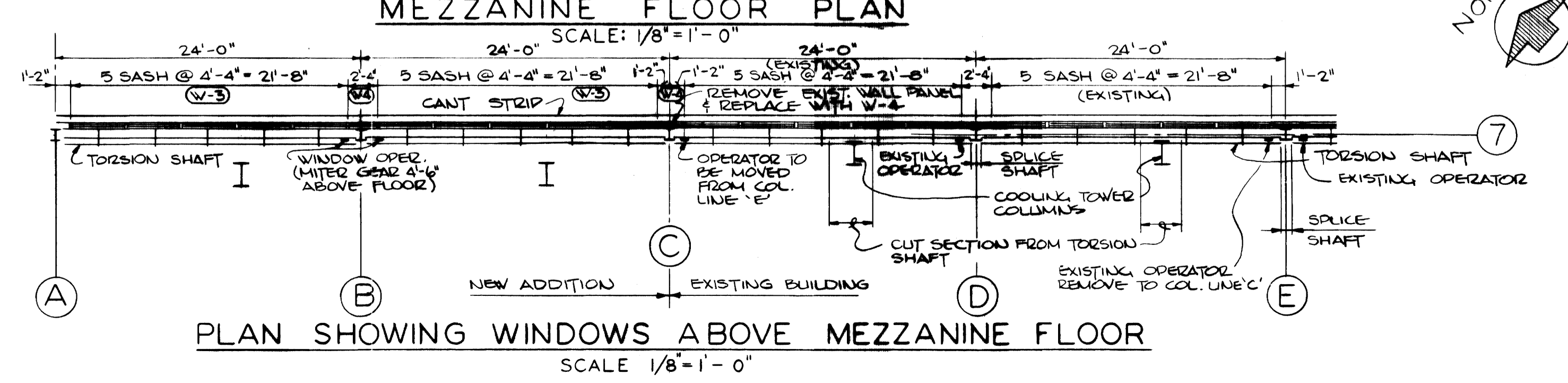
AG. BUILT DRAWING

REVISIONS MADE DURING CONSTRUCTION

DATE: 5-28-70

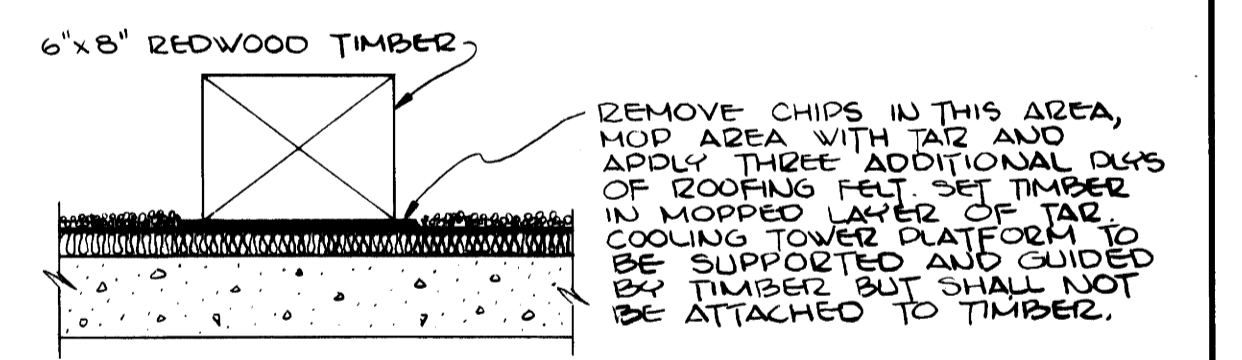
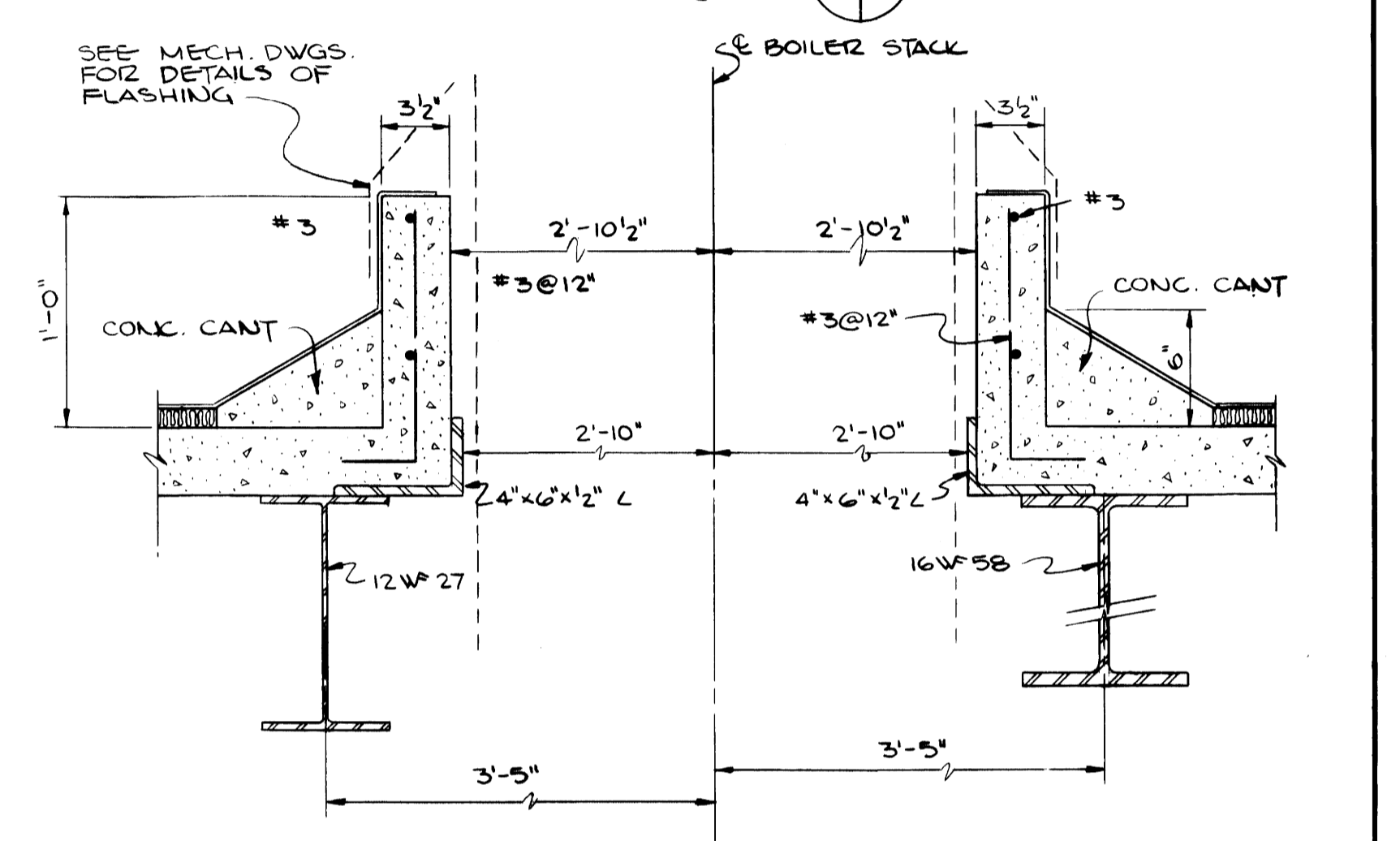
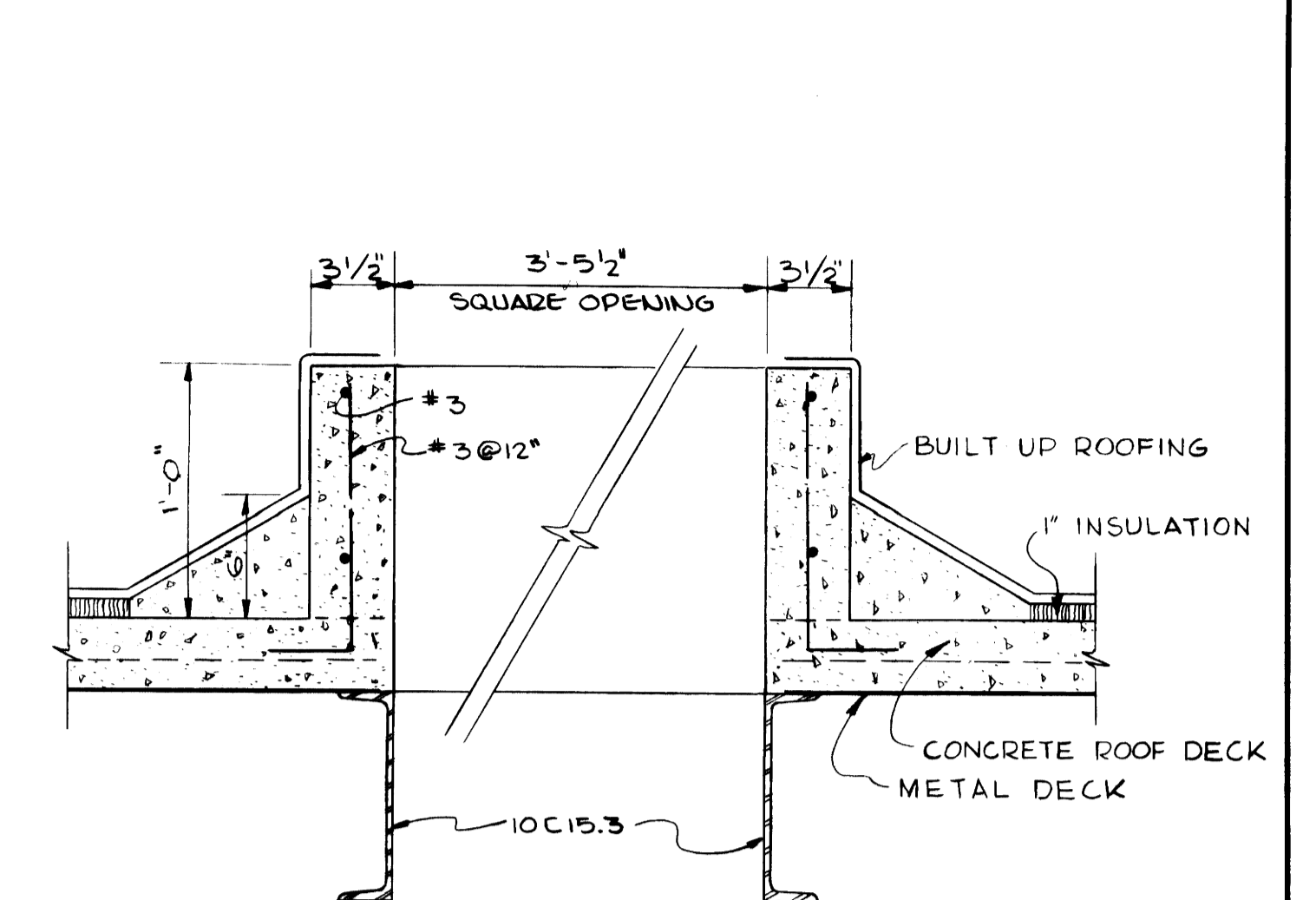
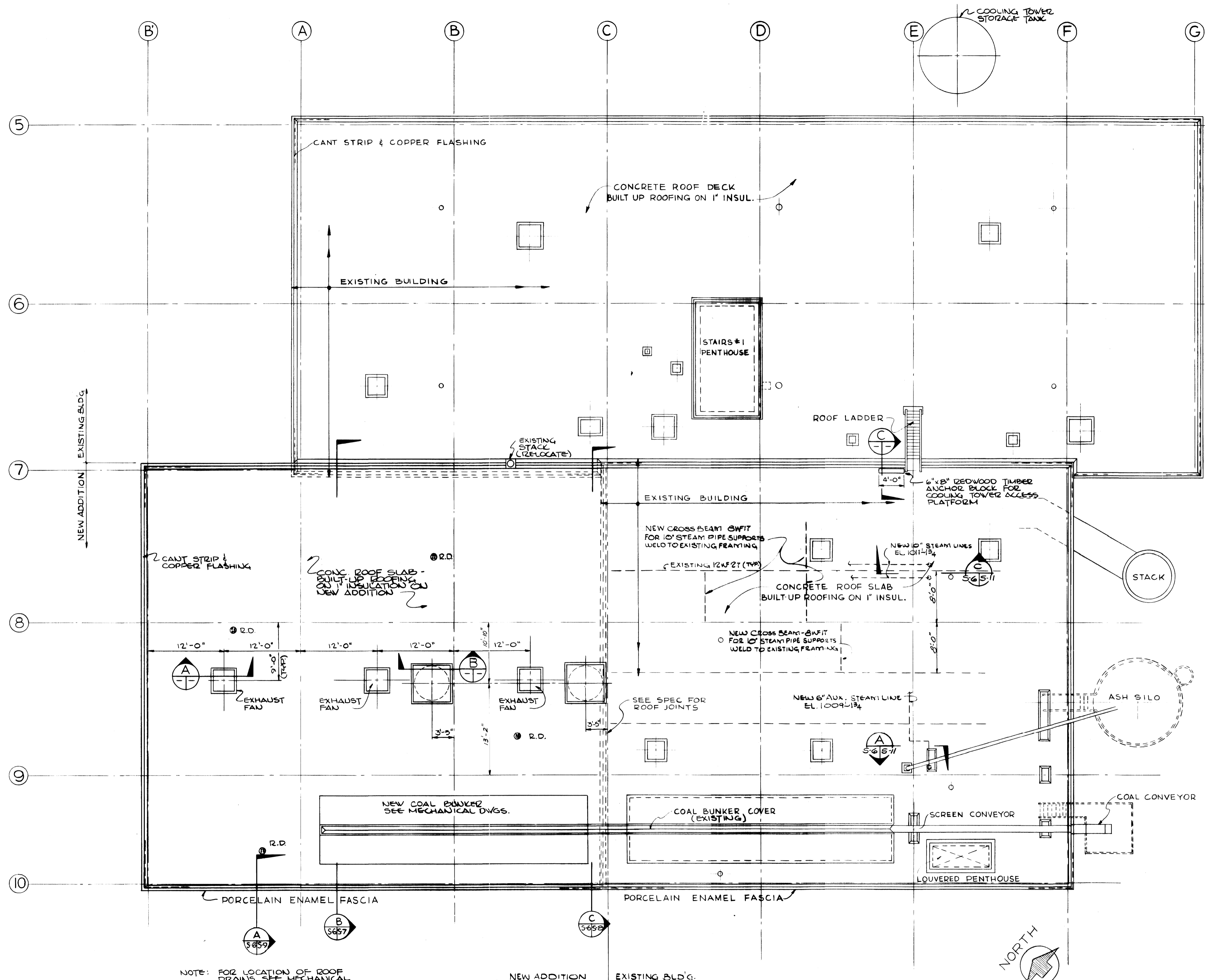
BY: GFS DATE: 1-10-72

NO REVISIONS



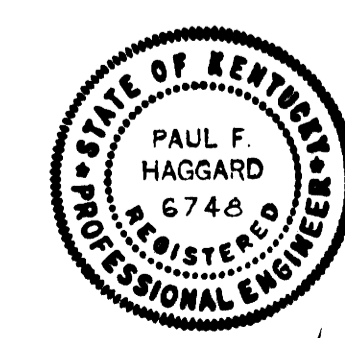
ADDITIONS & RENOVATIONS		
HEATING & COOLING PLANT - A. B. CHANDLER MEDICAL CENTER		
UNIVERSITY OF KENTUCKY LEXINGTON, KENTUCKY		
DRAWN BY	B.C.	MEZZANINE FLOOR PLAN & COL. BASE
TRACED BY	MASON & HANGER - SILAS MASON CO., INC.	DATE 5-28-70
CHECKED BY	P.F.H.	SCALE AS NOTED
COMMONWEALTH OF KENTUCKY		SPEC. NO.
DEPARTMENT OF FINANCE		DRAWING NO. S-5
DIVISION OF ENGINEERING		
FRANKFORT, KENTUCKY		
APPROVED BY	C. J. Marshall	DATE 5-28-70
AGENCY HEAD		
APPROVED BY	D. M. G...	DATE 6-1-70
DIRECTOR, DIVISION OF ENGINEERING		



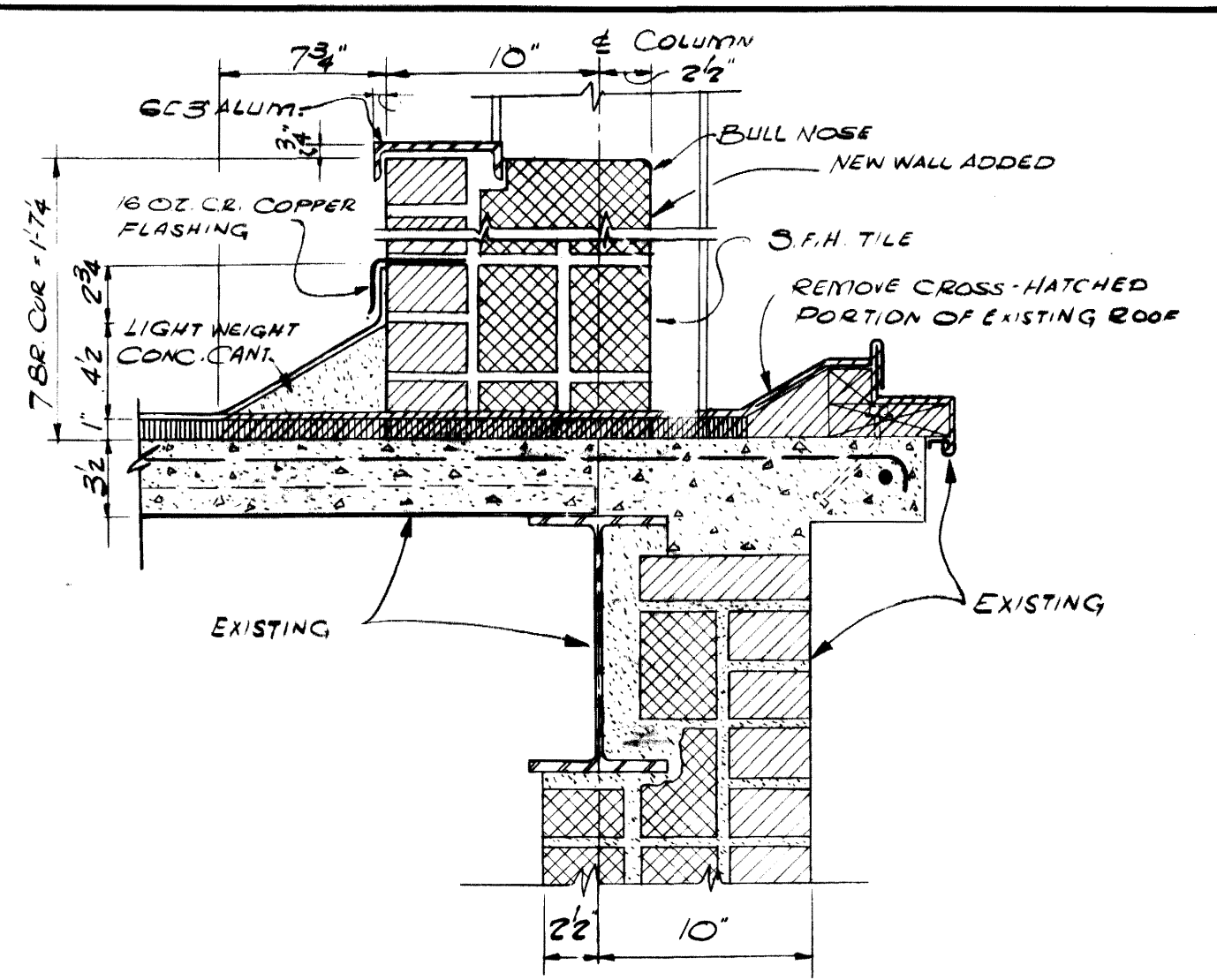
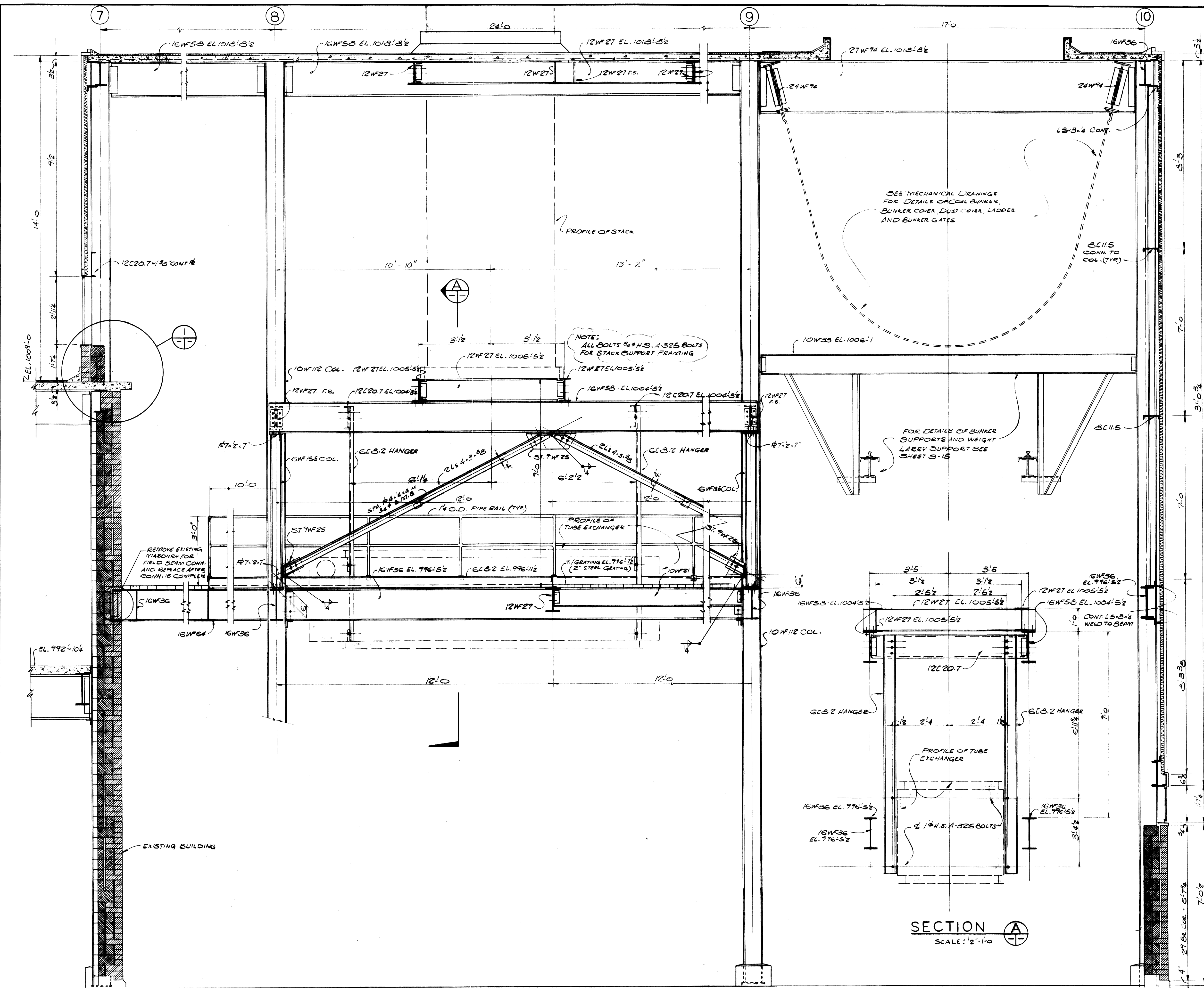


**ROOF PLAN**  
SCALE: 1/8" = 1'-0"

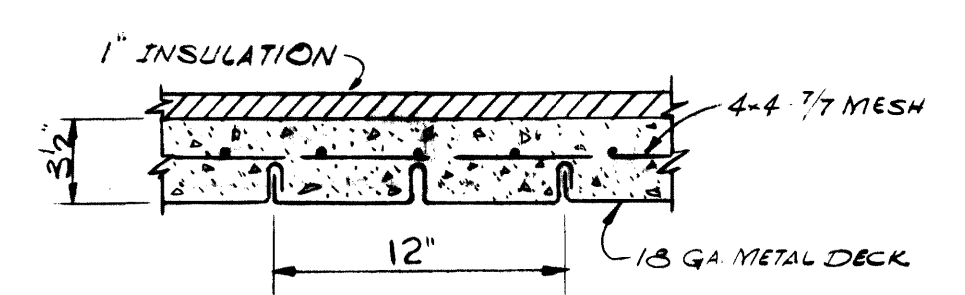
**AS-BUILT DRAWING**  
REVISIONS MADE DURING CONSTRUCTION HAVE BEEN INCLUDED ON THIS DRAWING.  
MASON & HANGER - SILAS MASON CO., INC.  
BY: G.S. DATE: 1-10-72  
DIMENSION REVISION ON STAIR OPENING LOCATION



ADDITIONS & RENOVATIONS		
HEATING & COOLING PLANT - A. B. CHANDLER MEDICAL CENTER UNIVERSITY OF KENTUCKY LEXINGTON, KENTUCKY		
DRAWN BY A.P.	ROOF PLAN / OPENING DETAILS	DATE 5-28-70
TRACED BY	MASON & HANGER - SILAS MASON CO., INC. 1500 W. MAIN ST. LEXINGTON, KENTUCKY	SCALE 1/8" = 1'-0"
CHECKED BY P.F.H.		SPEC. NO.
COMMONWEALTH OF KENTUCKY DEPARTMENT OF FINANCE DIVISION OF ENGINEERING FRANKFORT, KENTUCKY		DRAWING NO. S-6
APPROVED BY <i>C.J. Marshall</i>	AGENCY HEAD	DATE 5-28-70
APPROVED BY <i>[Signature]</i>	DIRECTOR, DIVISION OF ENGINEERING	DATE 6-1-70



DETAIL  
SCALE: 1 1/2\"/>



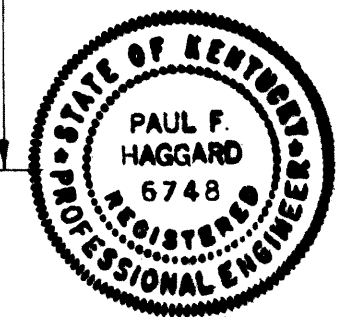
TYPICAL ROOF SECTION  
SCALE: 1 1/2\"/>

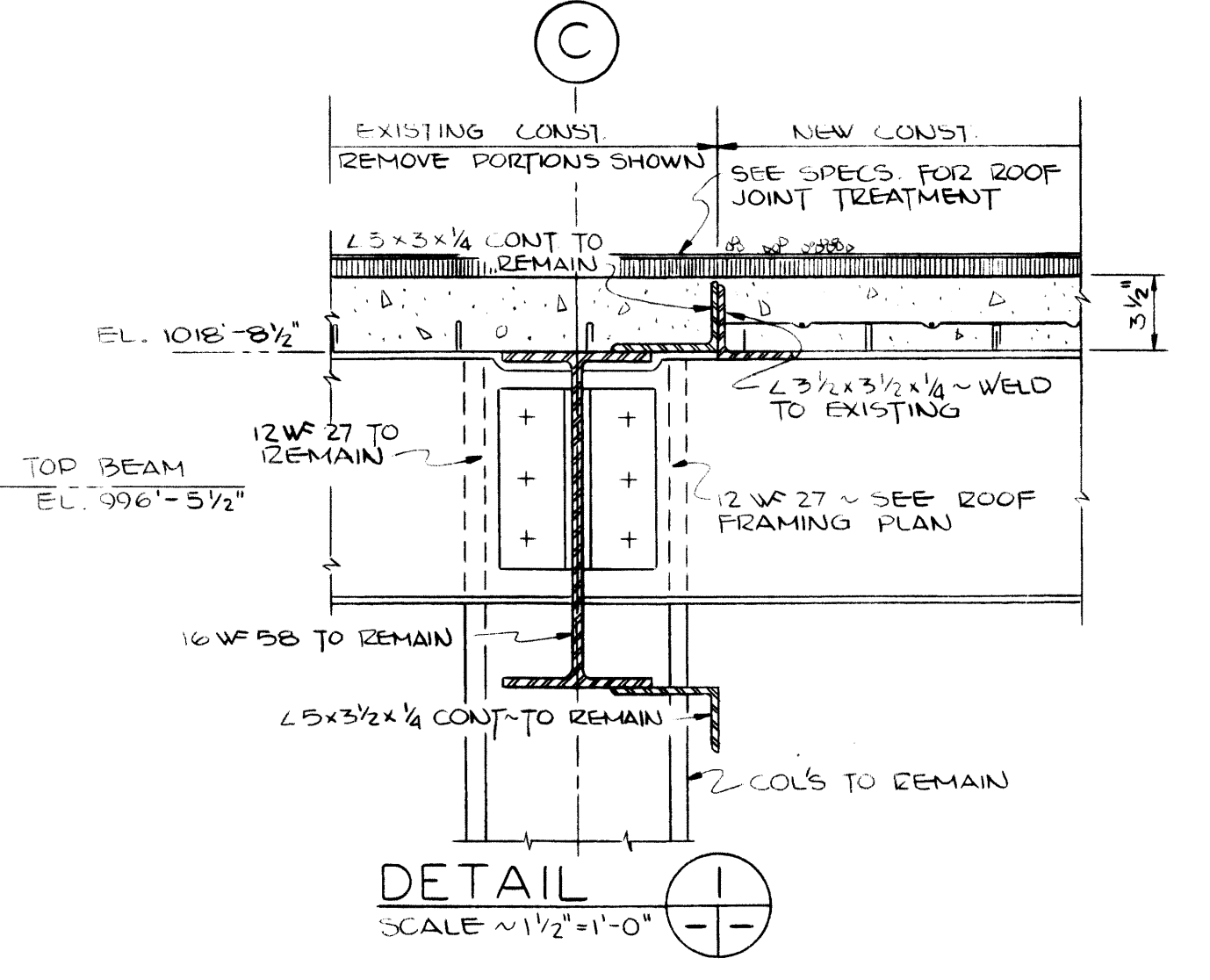
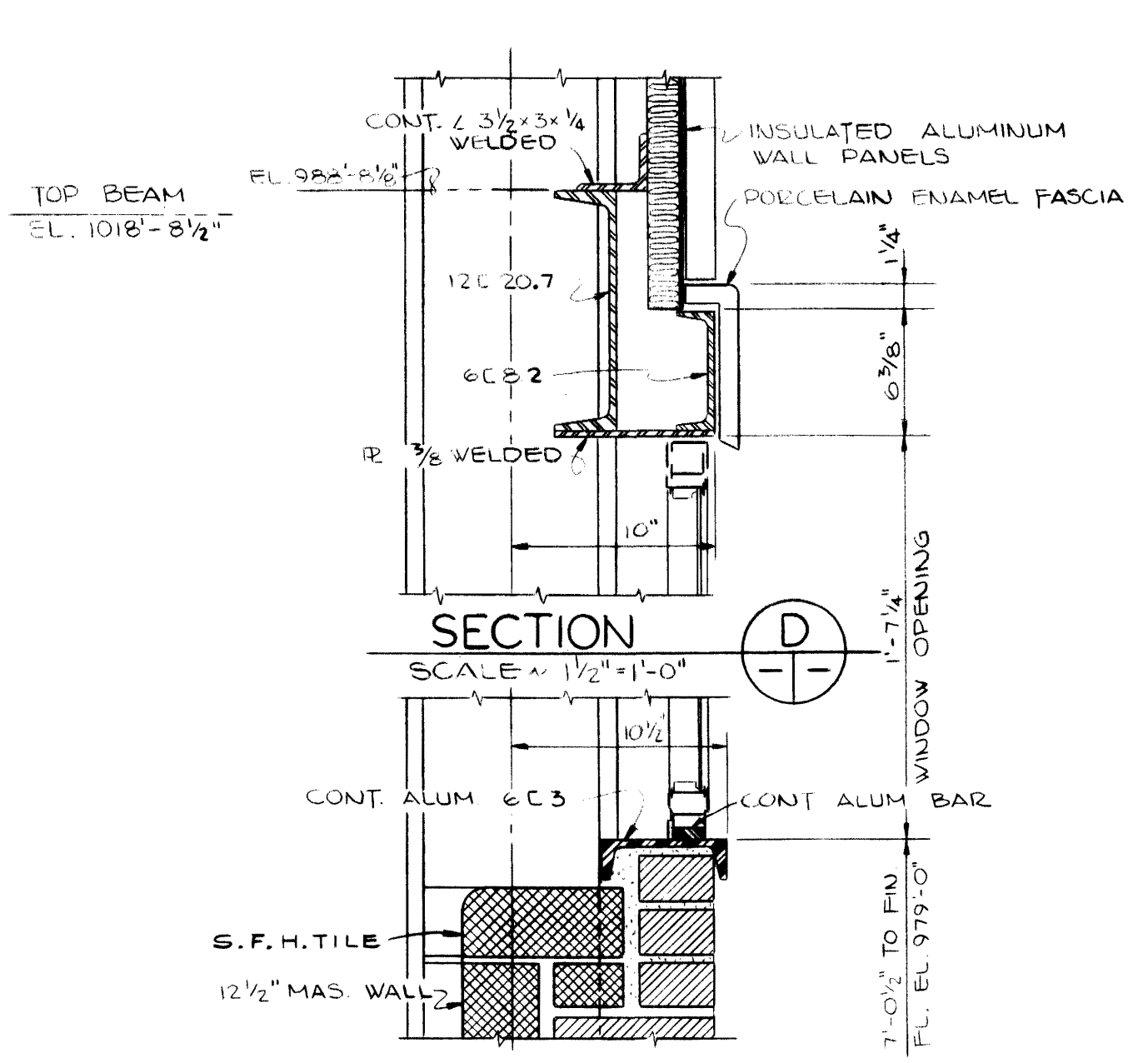
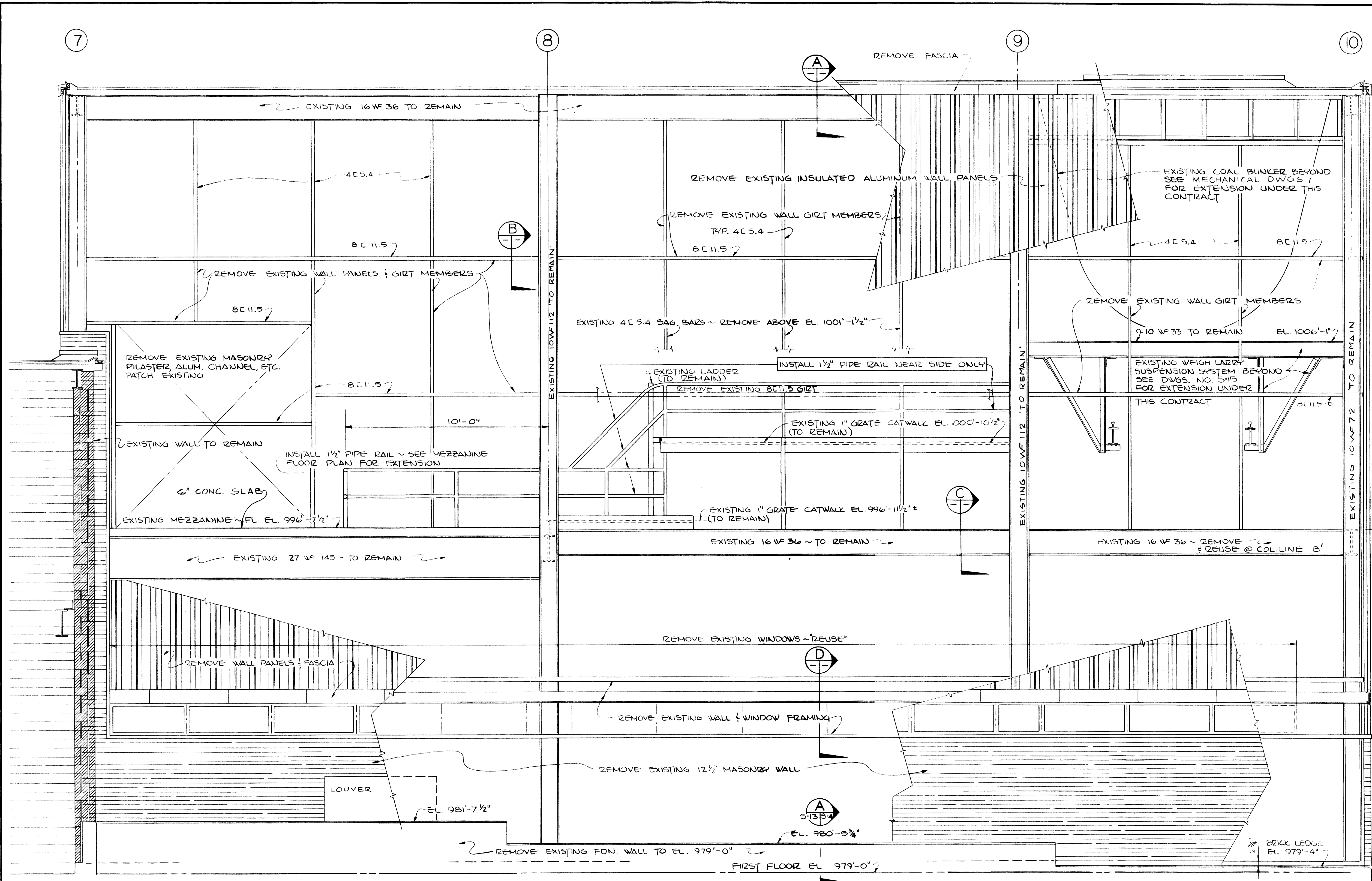
SECTION A  
SCALE: 1/2\"/>

SECTION B  
SCALE: 1/2\"/>

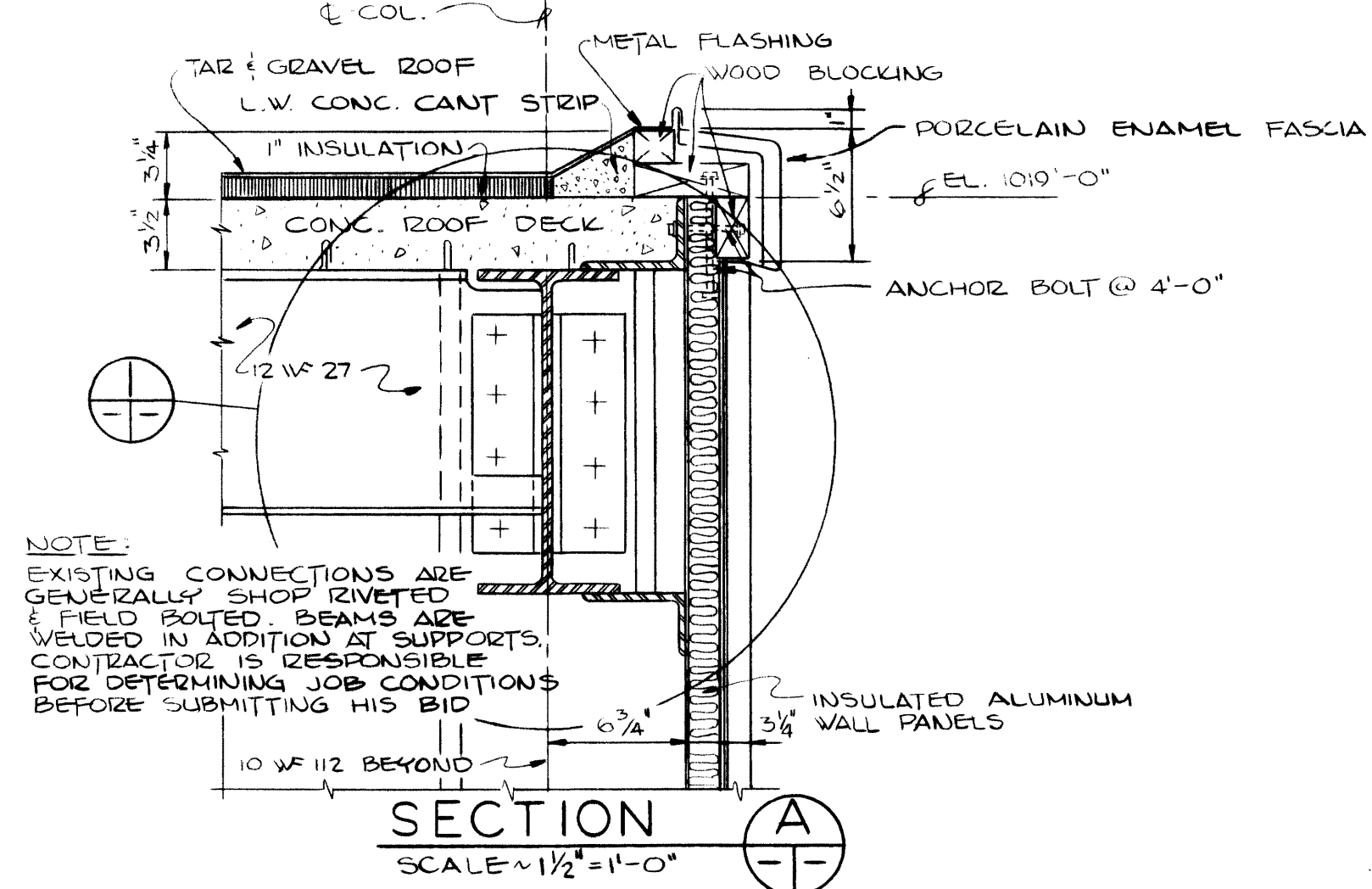
AS-BUILT DRAWING  
REVISIONS MADE DURING CONSTRUCTION  
HAVE BEEN INCLUDED ON THIS DRAWING  
MASON & HANGER - SILAS MASON CO., INC.  
BY G.E.S. DATE: 1-10-72  
REVISED DIMENSIONS OF STACK  
OPENING LOCATION

ADDITIONS & RENOVATIONS HEATING & COOLING PLANT - A. B. CHANDLER MEDICAL CENTER UNIVERSITY OF KENTUCKY LEXINGTON, KENTUCKY		
DRAWN BY D.W.	BUILDING SECTION & DETAILS	DATE 5-28-70
TRACED BY J.S.M.	MASON & HANGER - SILAS MASON CO., INC. 1500 W. MAIN ST. LEXINGTON, KENTUCKY	SCALE AS NOTED
CHECKED BY P.F.H.	COMMONWEALTH OF KENTUCKY DEPARTMENT OF FINANCE DIVISION OF ENGINEERING FRANKFORT, KENTUCKY	SPEC. NO. DRAWING NO. S-7
APPROVED BY <i>C. J. Marshall</i> AGENCY HEAD		DATE 5-28-70
APPROVED BY <i>W. T. McCombs</i> DIRECTOR, DIVISION OF ENGINEERING		DATE 6-1-70

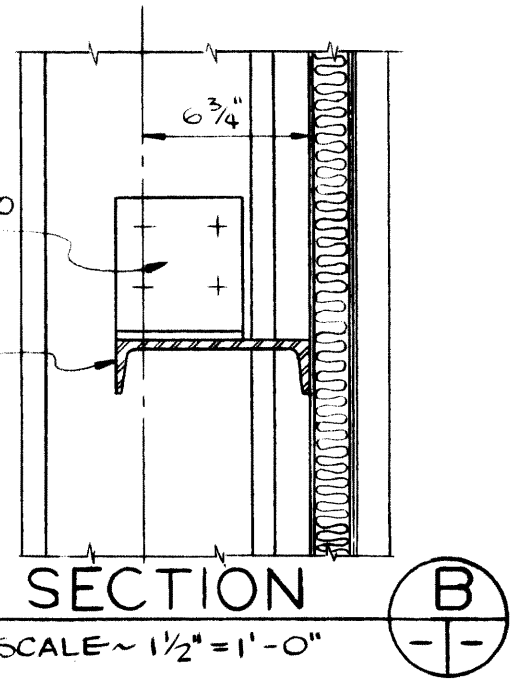




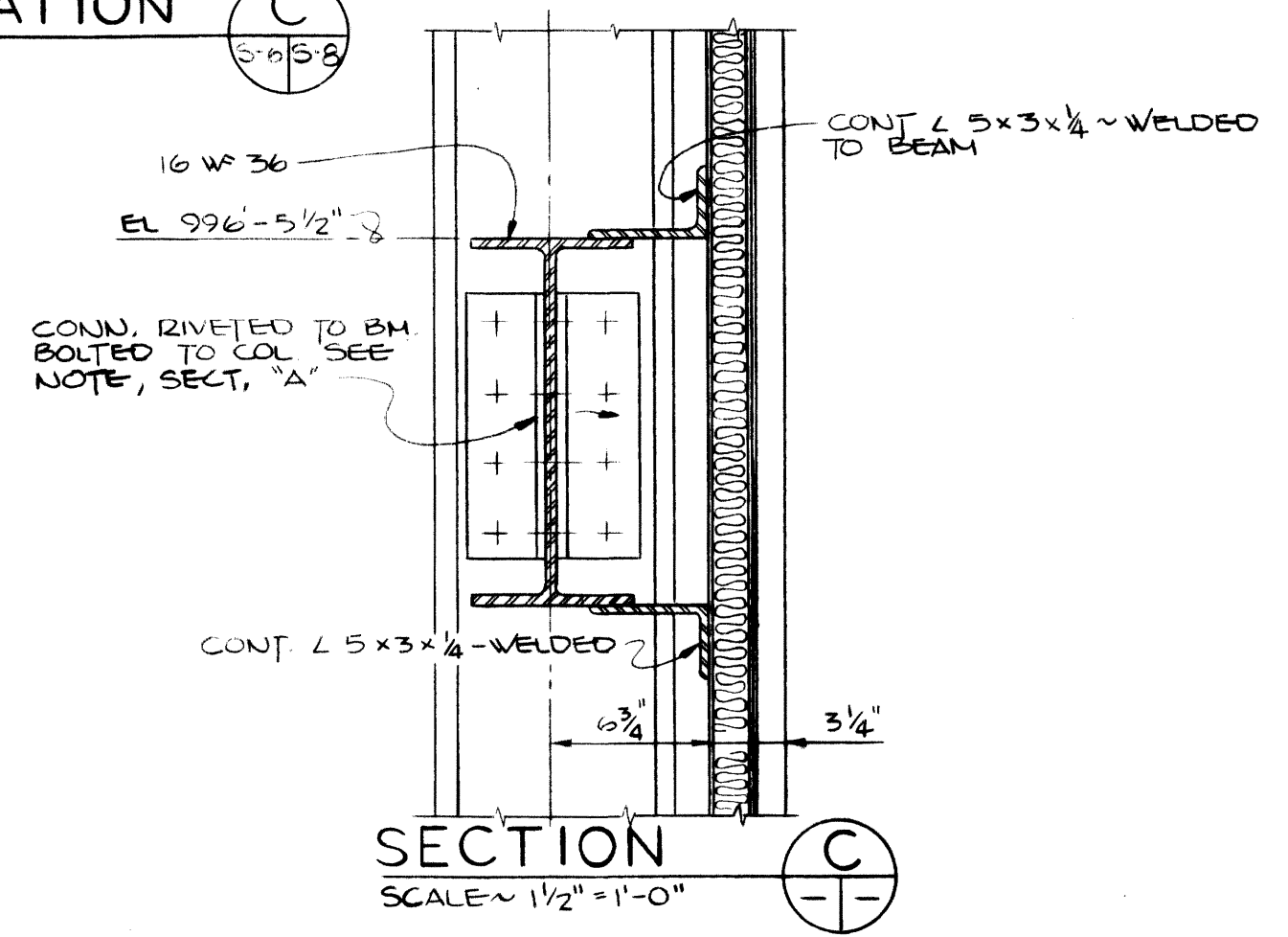
ALL REVISIONS MADE DURING CONSTRUCTION HAVE BEEN INDICATED ON THIS DRAWING BY MASON & HANGER - SILAS MASON CO., INC. DATE 1-10-72 NO REVISIONS



SECTIONAL ELEVATION C SCALE 3/8" = 1'-0"



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

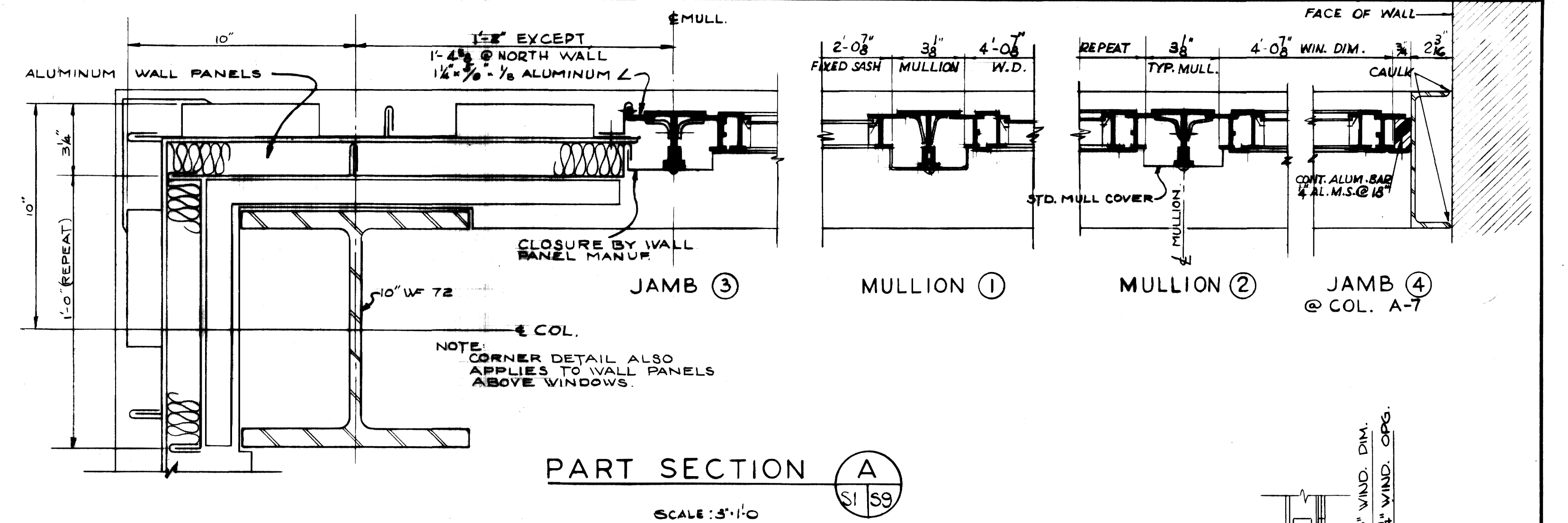
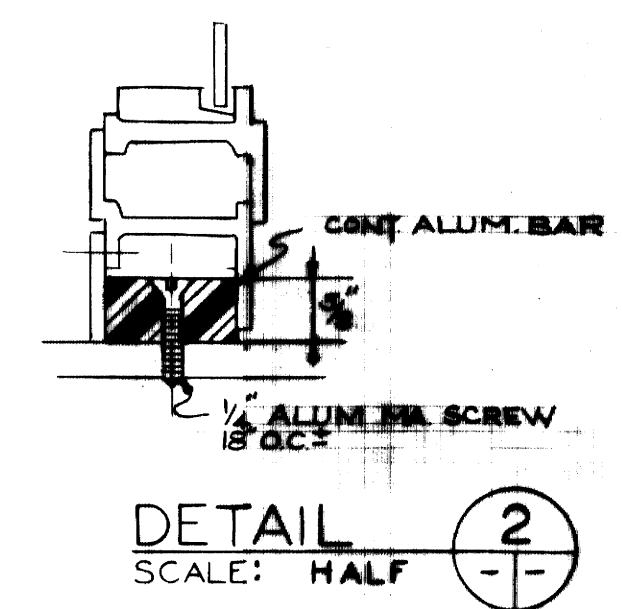
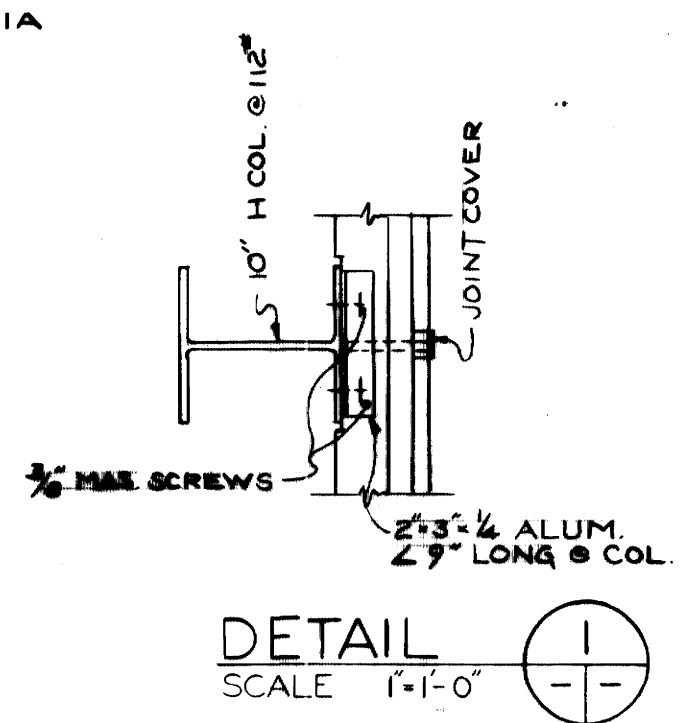
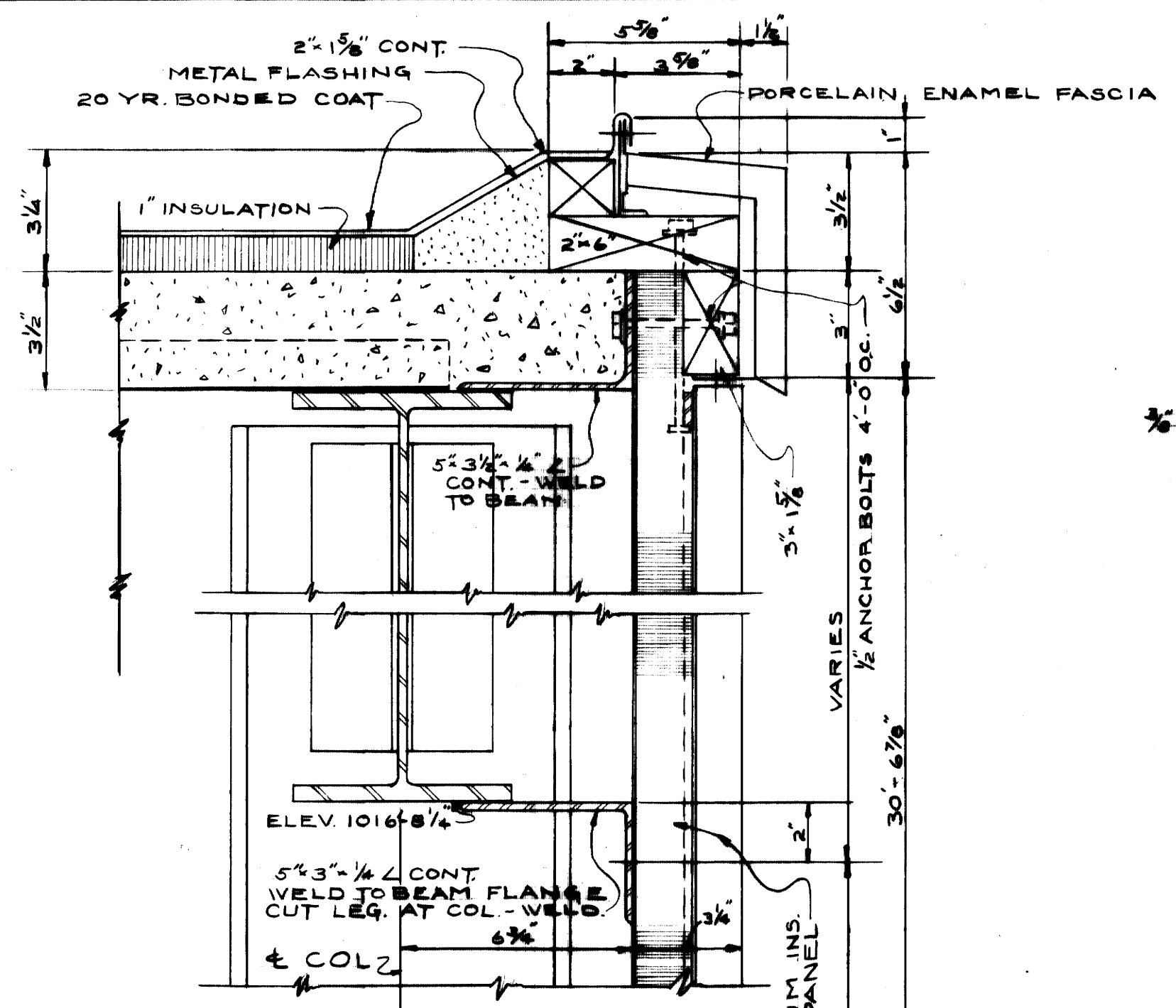


SECTION C SCALE 1/2" = 1'-0"

NOTE: EXISTING CONNECTIONS ARE GENERALLY SHOP RIVETED & FIELD BOLTED. BEAMS ARE WELDED IN ADDITION AT SUPPORTS. CONTRACTOR IS RESPONSIBLE FOR DETERMINING JOB CONDITIONS BEFORE SUBMITTING HIS BID.

ADDITIONS & RENOVATIONS		
HEATING & COOLING PLANT - A. B. CHANDLER MEDICAL CENTER		
UNIVERSITY OF KENTUCKY LEXINGTON, KENTUCKY		
DRAWN BY D.W.	SECTIONAL END ELEVATION, EXISTING BLDG. & DETAILS	DATE 5-28-70
TRACED BY J.B.W.	MASON & HANGER-SILAS MASON CO., INC. 1500 W. MAIN ST. LEXINGTON, KENTUCKY	SCALE AS NOTED
CHECKED BY P.F.H.	COMMONWEALTH OF KENTUCKY DEPARTMENT OF FINANCE DIVISION OF ENGINEERING FRANKFORT KENTUCKY	SPEC. NO. S-8
APPROVED BY <i>[Signature]</i>	AGENCY HEAD	DATE 5-28-70
APPROVED BY <i>[Signature]</i>	DIRECTOR, DIVISION OF ENGINEERING	DATE 6-1-70





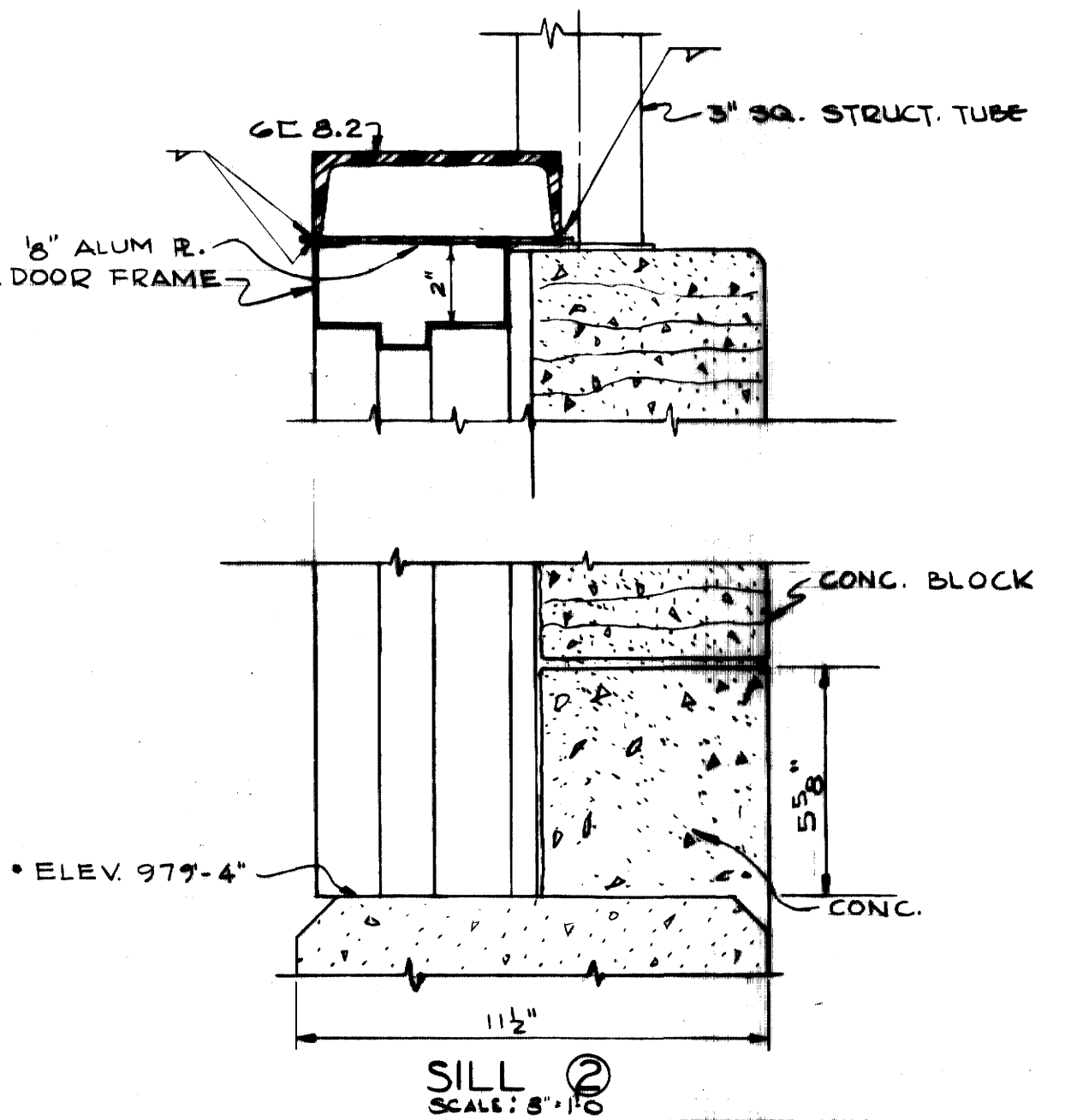
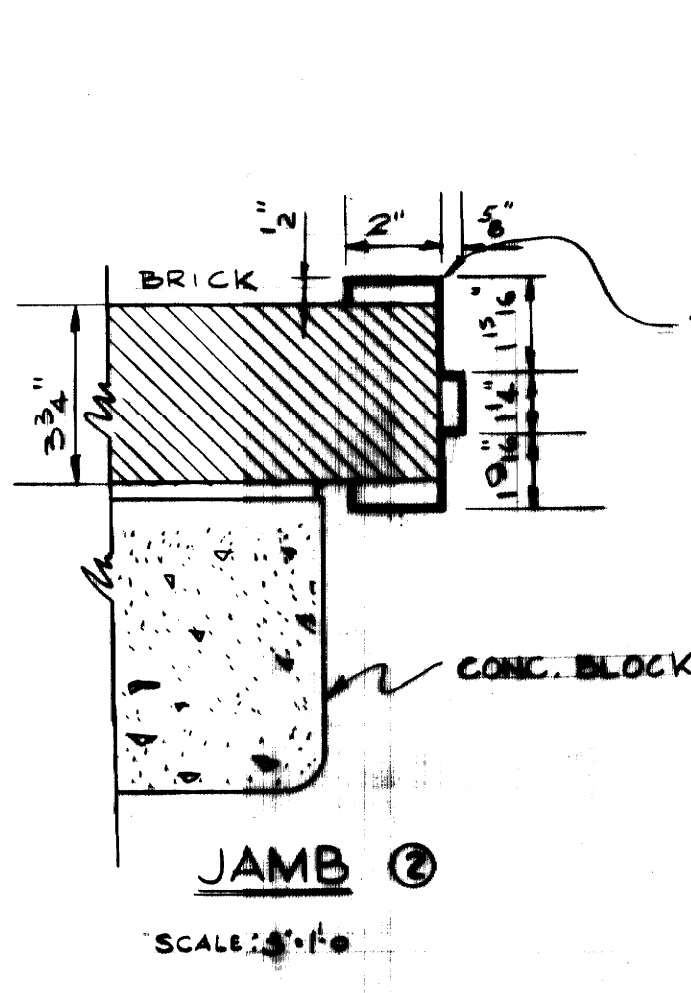
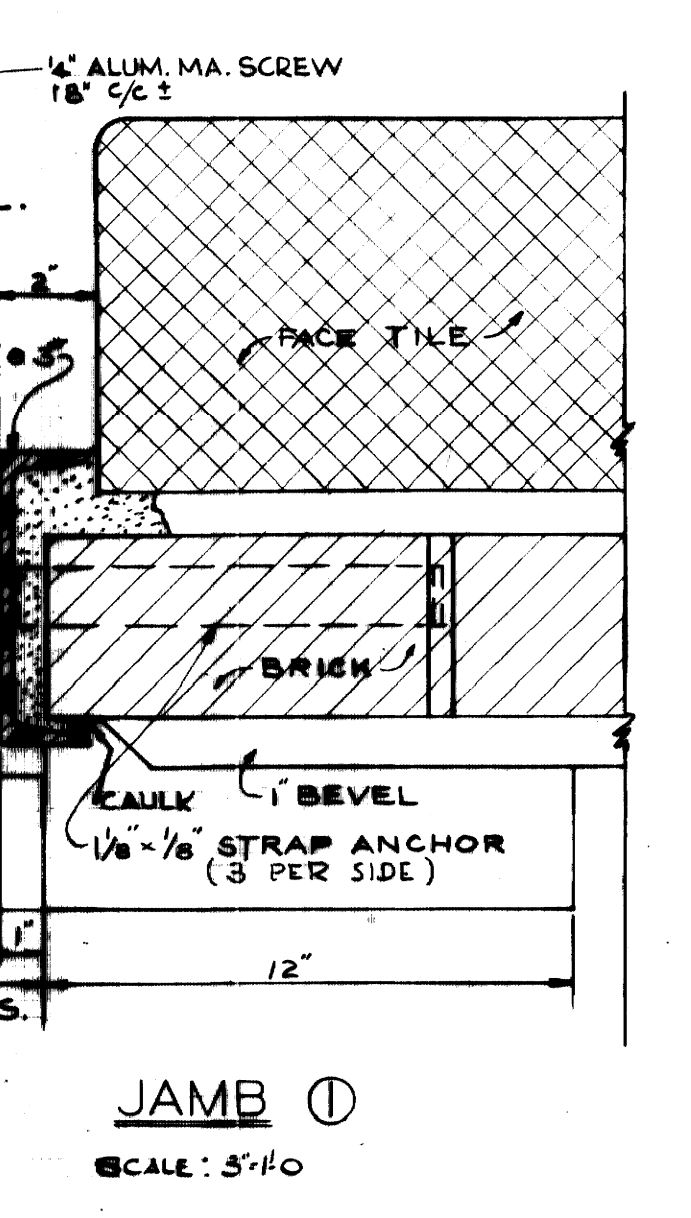
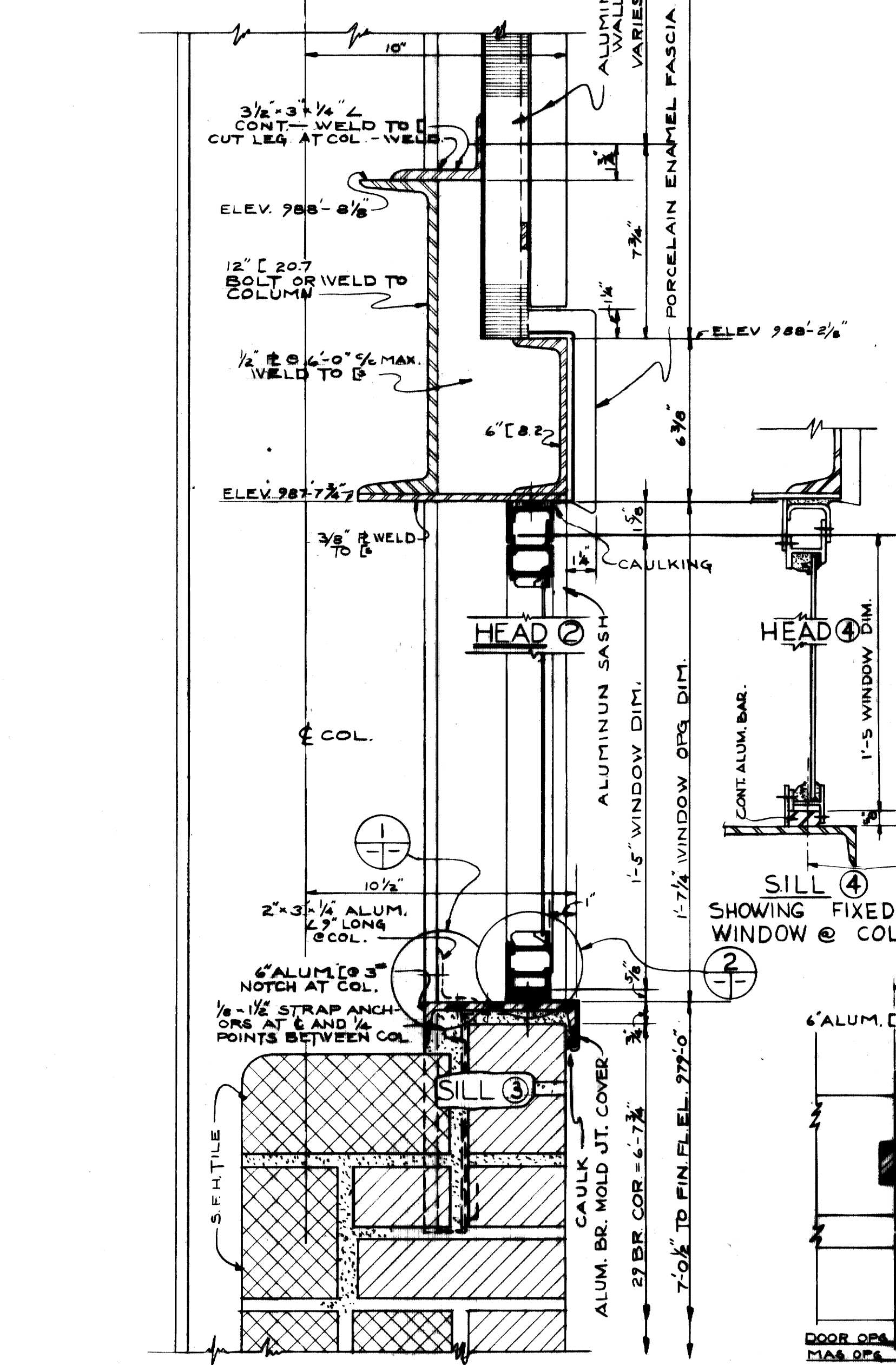
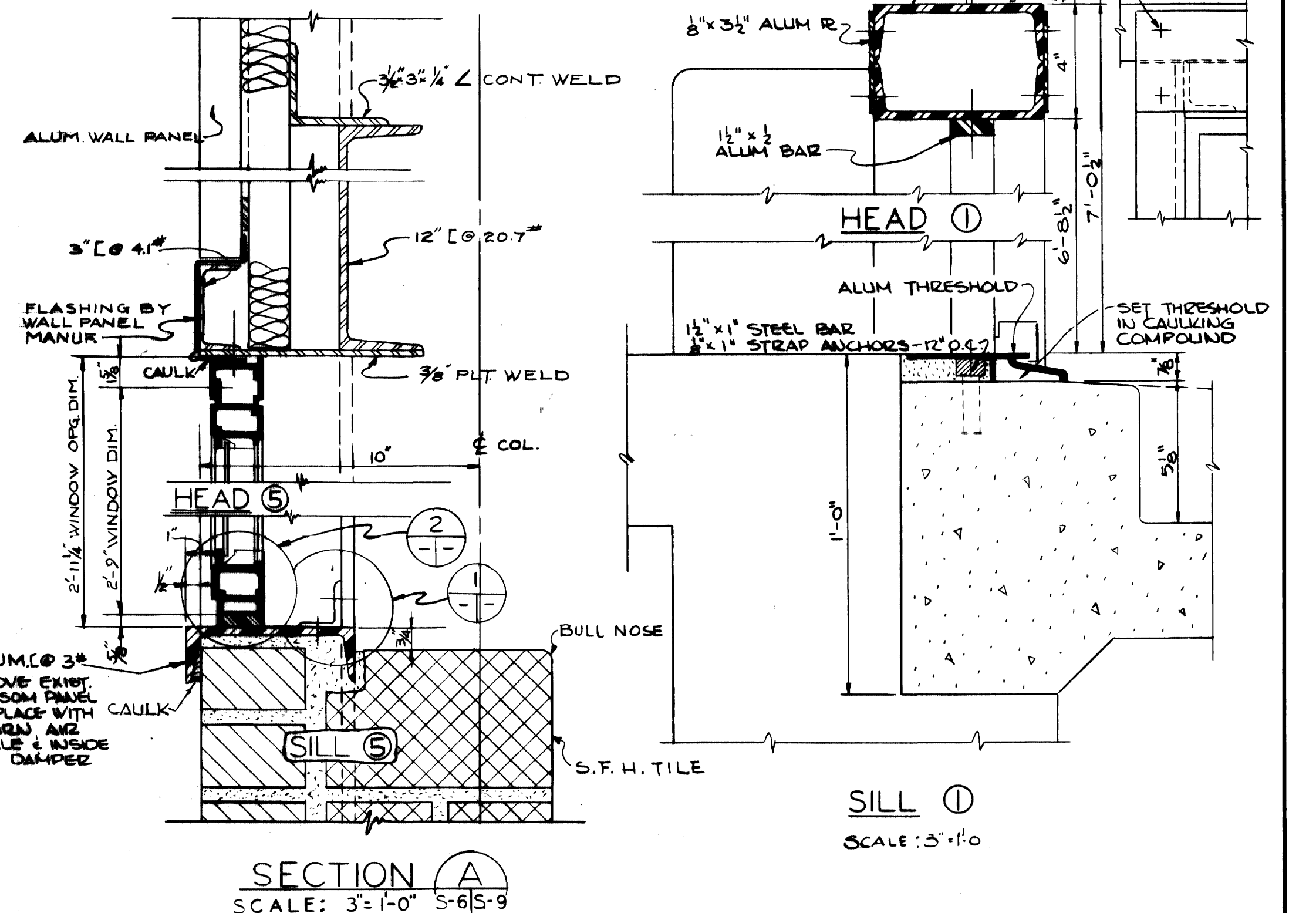
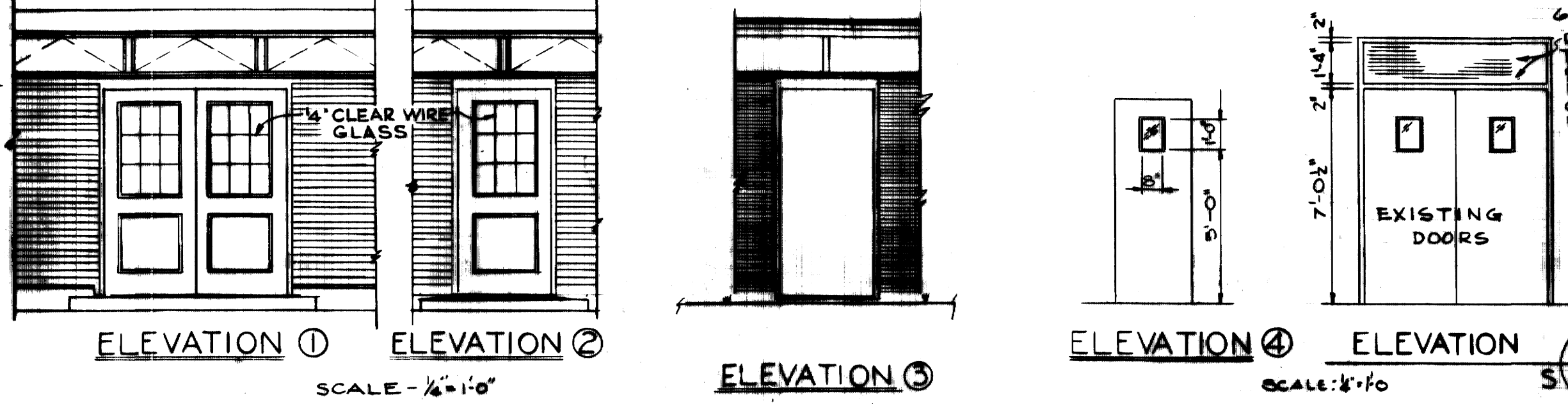
DOOR & FRAME SCHEDULE

MARK	DOOR			FRAME			MISC.			
	SIZE	MATERIAL	ELEVATION	HEAD	JAMB	SILL	MATERIAL	GLASS	HARDWARE	INSULATION
A	2'-3'-0" x 6'-8"-1 1/4"	STEEL	1	1	1	1	STEEL	AS SHOWN	SET #1	MINERAL WOOL
B	3'-0" x 6'-8"-1 1/4"	STEEL	2	1	1	1	STEEL	AS SHOWN	SET #2	"
C	2'-4" x 6'-8"-1 1/4"	STEEL (FIRE)	2	1	1	1	STEEL	AS SHOWN	SET #3	1/2 HR RATE
D	3'-0" x 6'-4"	STEEL	3	2	2	2	STEEL	---	SET #4	---

WINDOW SCHEDULE

MARK	QUANTITY	SIZE	TYPE	FRAME			MULLION	REMARKS
				HEAD	JAMB	SILL		
W-1	15	4'-0 3/8" x 1'-5"	ARCH PROJECTED	3	3 OR 4	3	1 OR 2	POLE OPERATED
W-2	1	2'-0 7/8" x 1'-5"	FIXED	4	---	4	1	---
W-3	10	4'-0 7/8" x 2'-9"	ARCH PROJECTED	5	3	5	1 OR 2	MITER GEAR OPER.
W-4	2	2'-0 7/8" x 2'-9"	FIXED	4	---	4	1	---

\* DOES NOT INCLUDE 12 (W-1) AND 2 (W-2) TO BE REMOVED AND REUSED FROM EXISTING BUILDING



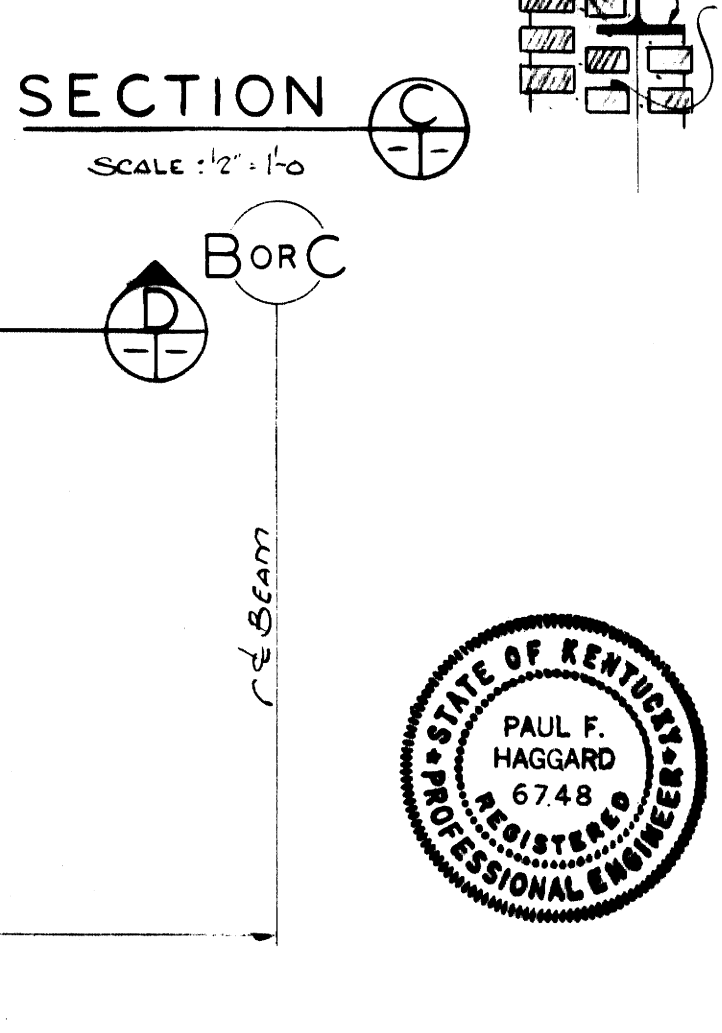
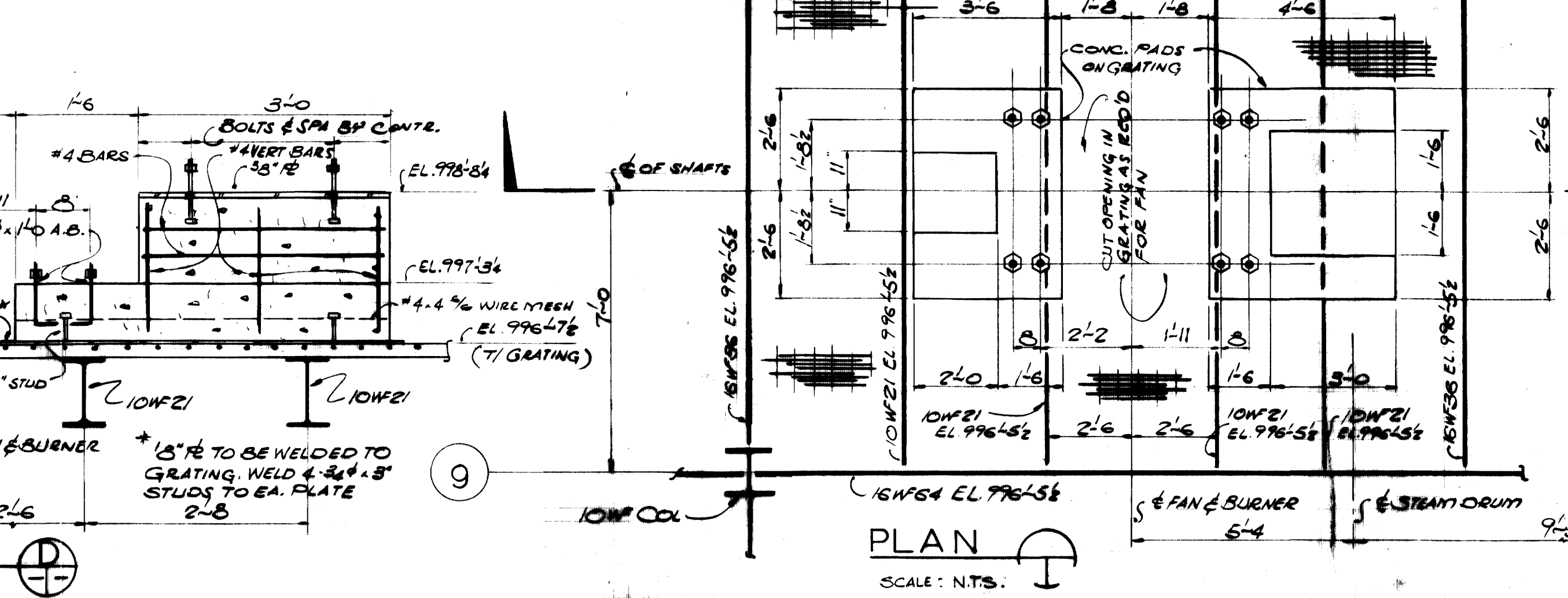
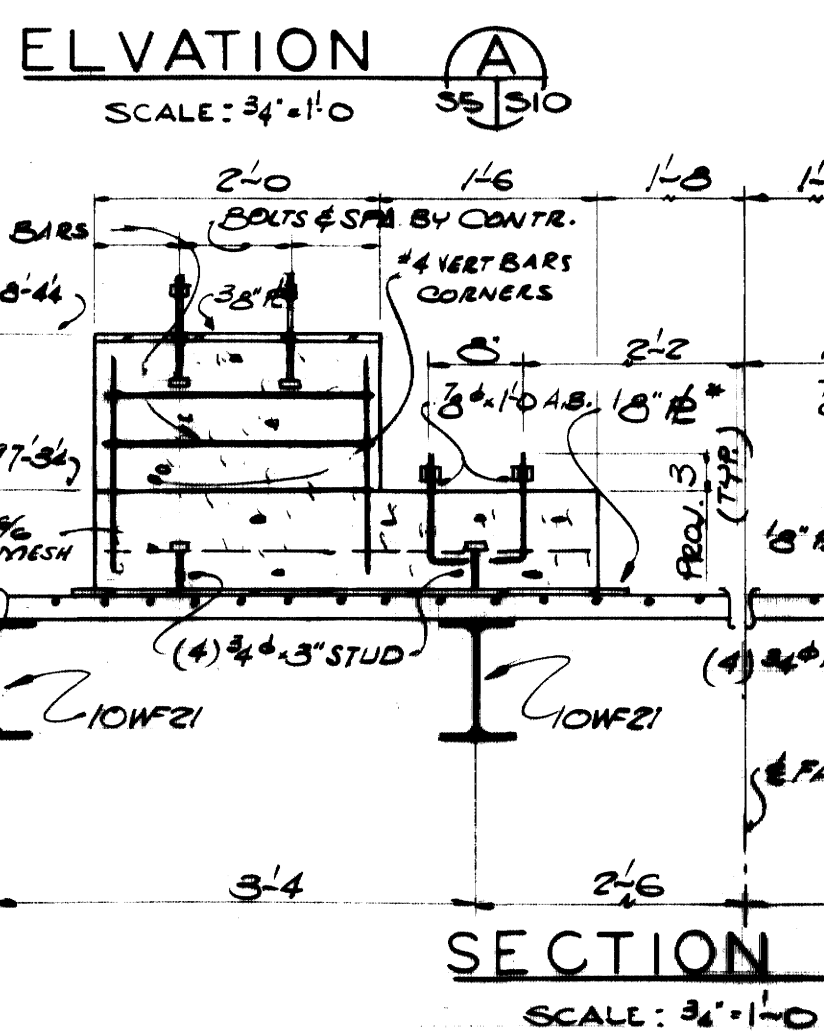
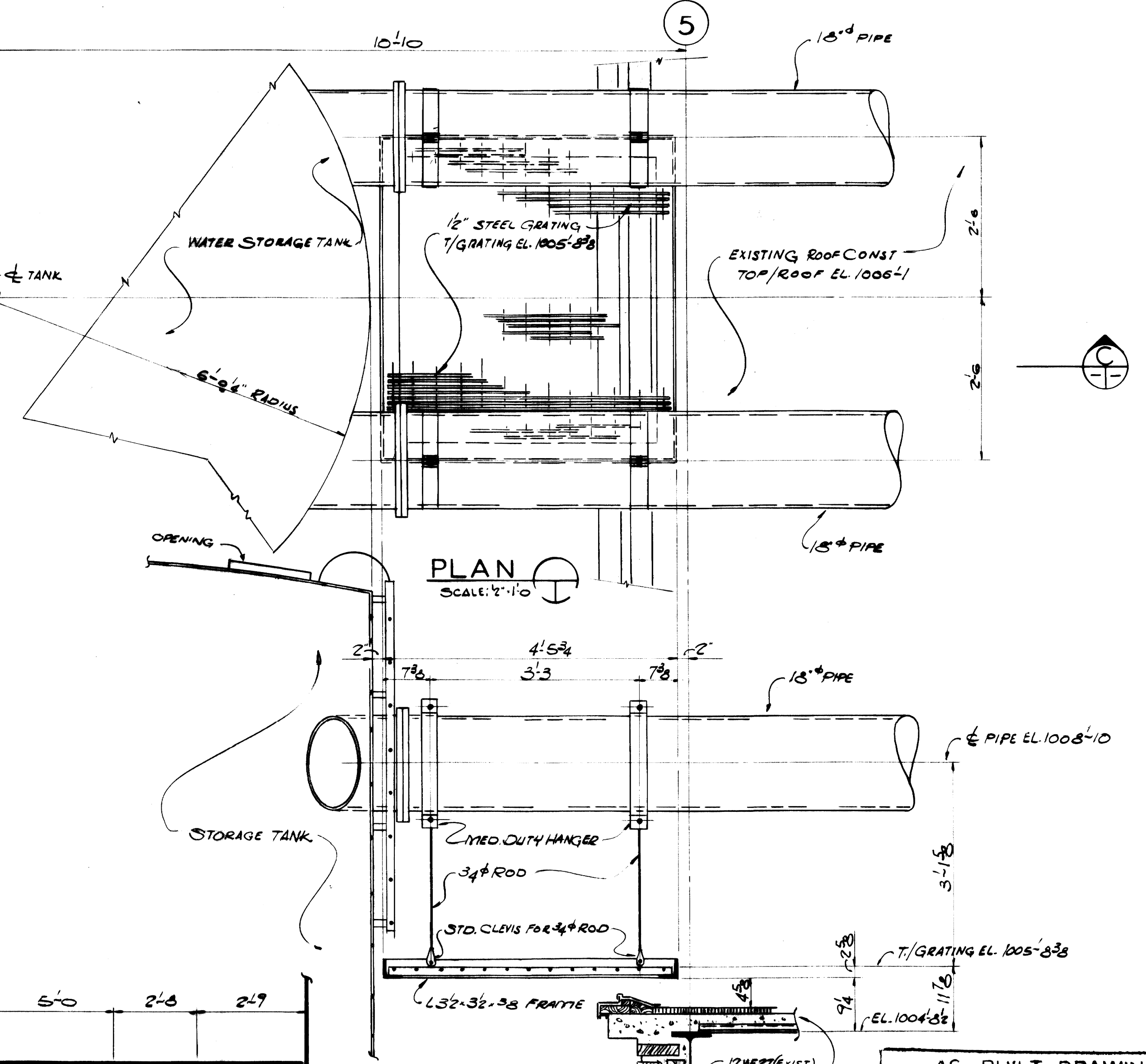
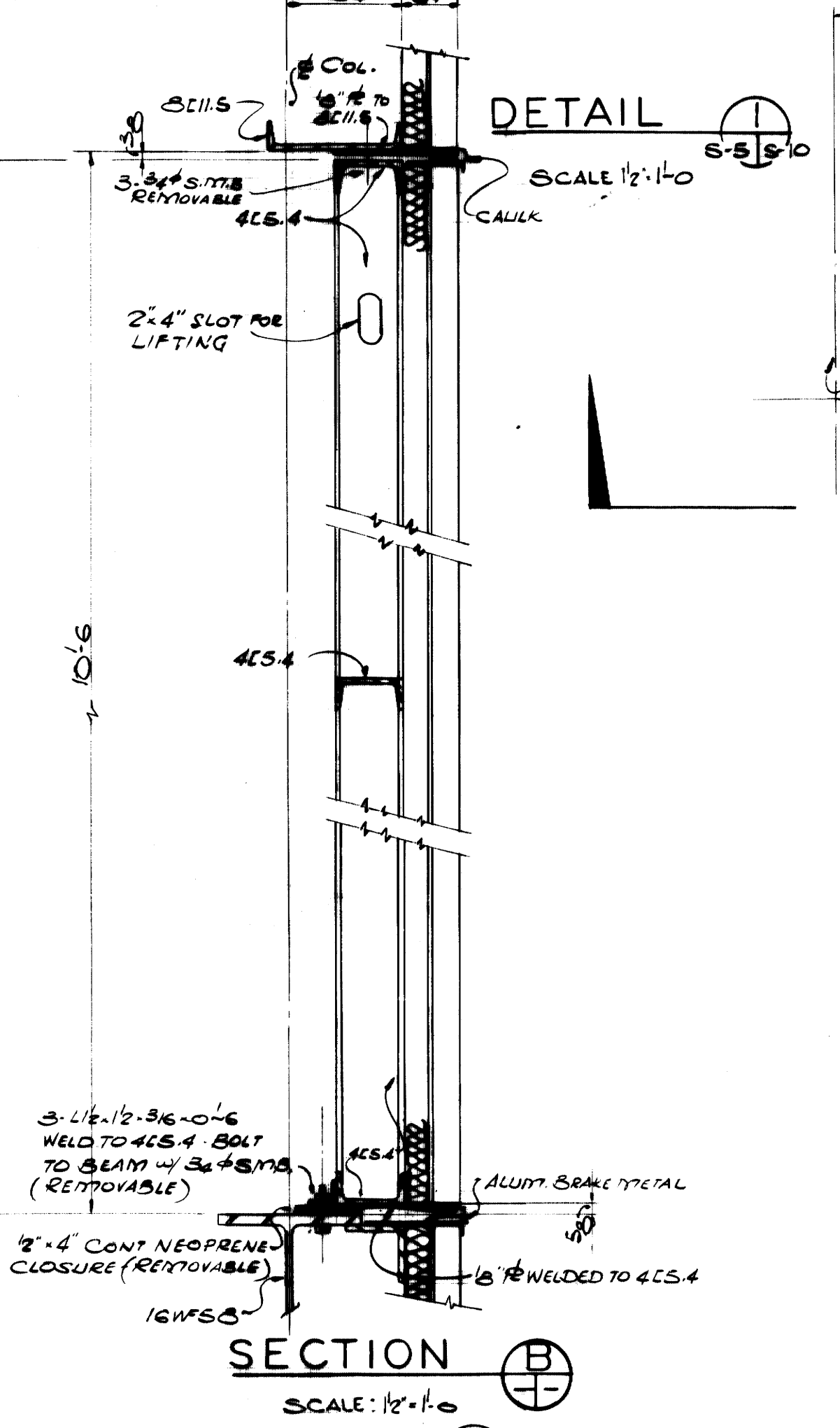
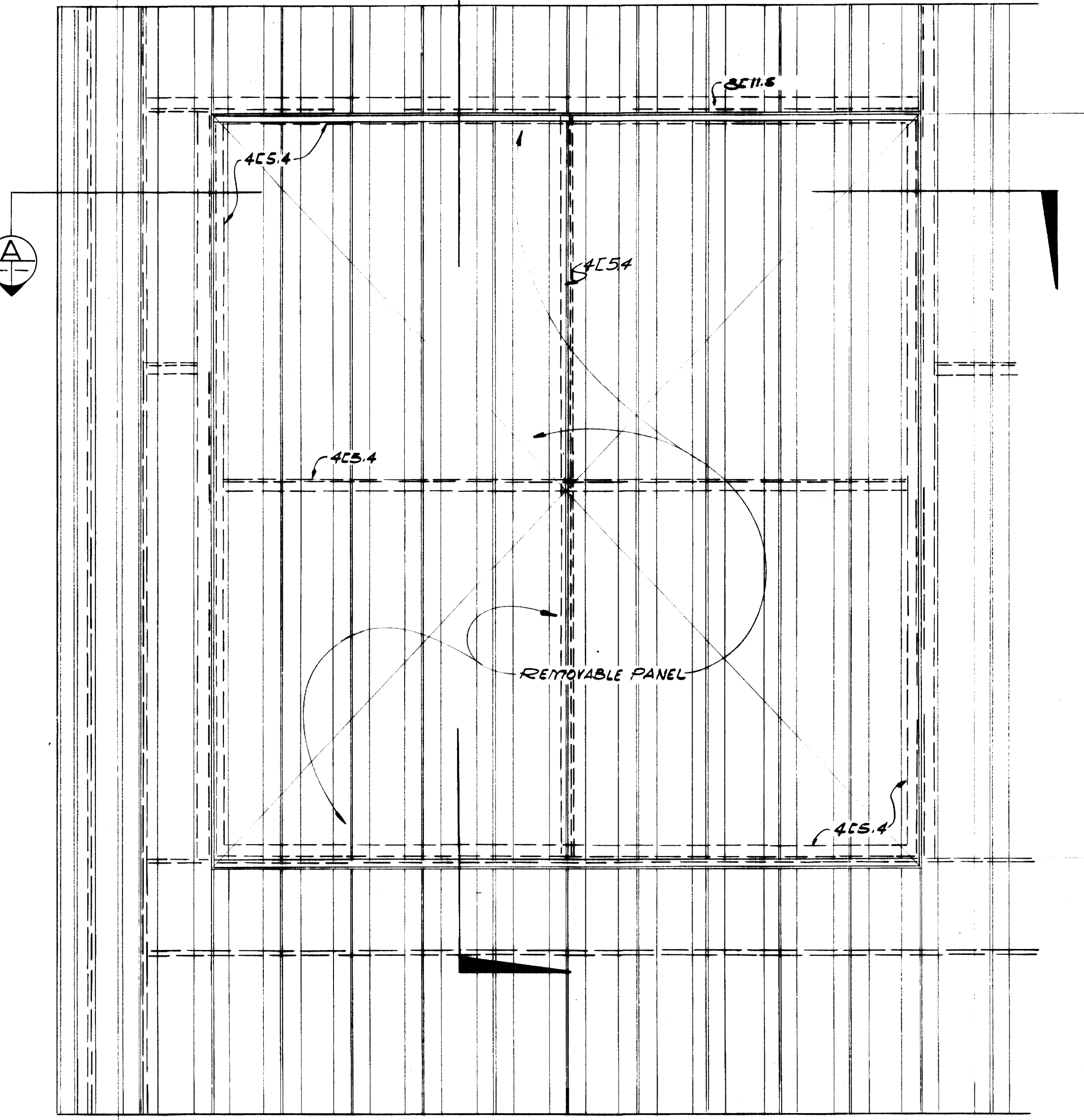
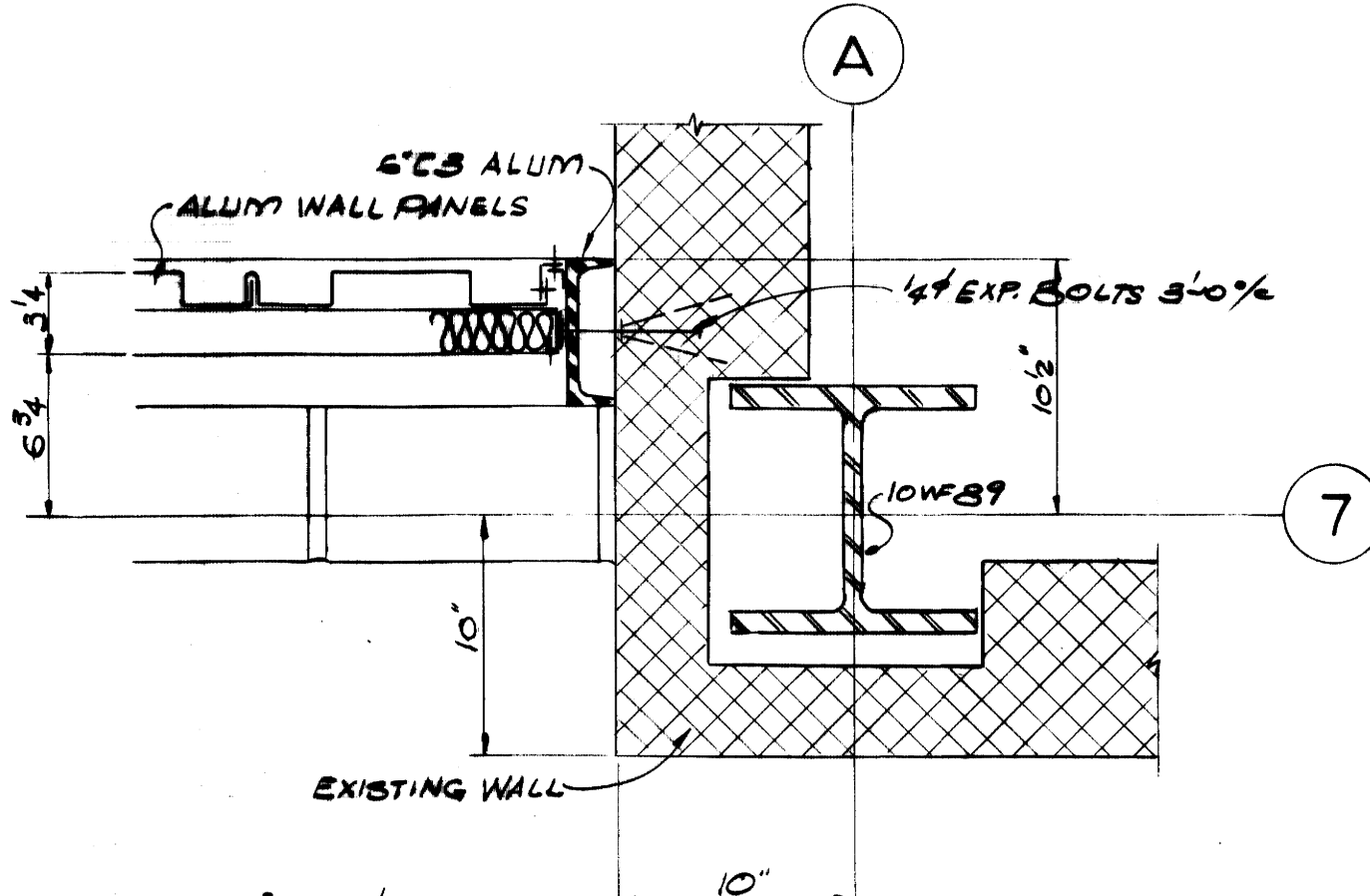
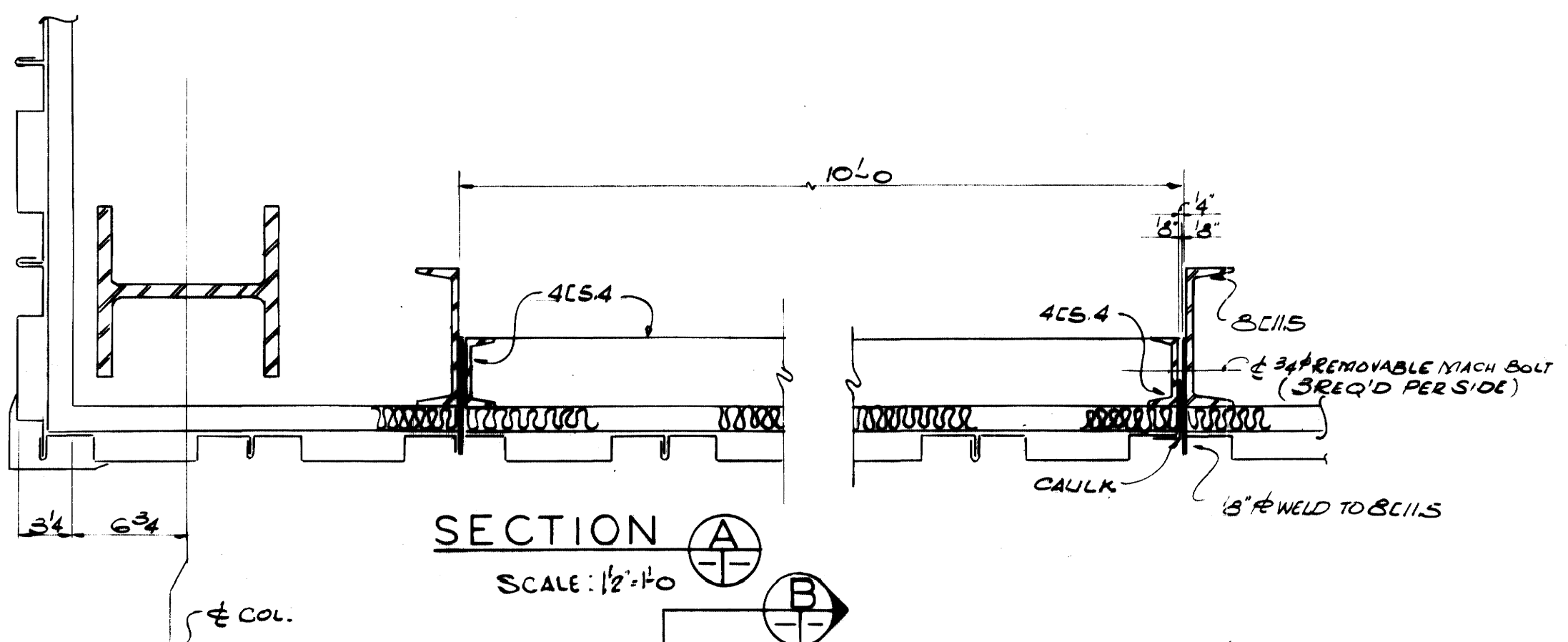
AS-BUILT DRAWING  
 REVISIONS MADE DURING CONSTRUCTION  
 HAVE BEEN INCLUDED ON THIS DRAWING  
 MASON & HANGER - SILAS MASON CO., INC.  
 BY GFS DATE 1-10-72  
 NO REVISIONS

ADDITIONS & RENOVATIONS  
 HEATING & COOLING PLANT - A. B. CHANDLER MEDICAL CENTER  
 UNIVERSITY OF KENTUCKY LEXINGTON, KENTUCKY

DRAWN BY D.C.	DOOR, FRAME & WINDOW SCHEDULE & DETAILS	DATE 5-28-70
TRACED BY	MASON & HANGER - SILAS MASON CO., INC. 1800 W. MAIN ST. LEXINGTON, KENTUCKY	SCALE AS NOTED
CHECKED BY R.F.H.	COMMONWEALTH OF KENTUCKY DEPARTMENT OF FINANCE DIVISION OF ENGINEERING FRANKFORT, KENTUCKY	SPEC. NO. DRAWING NO. S-9

APPROVED BY: *C. J. Marshall* DATE: 5-28-70  
 APPROVED BY: *W. J. McConnell* DATE: 6-1-70



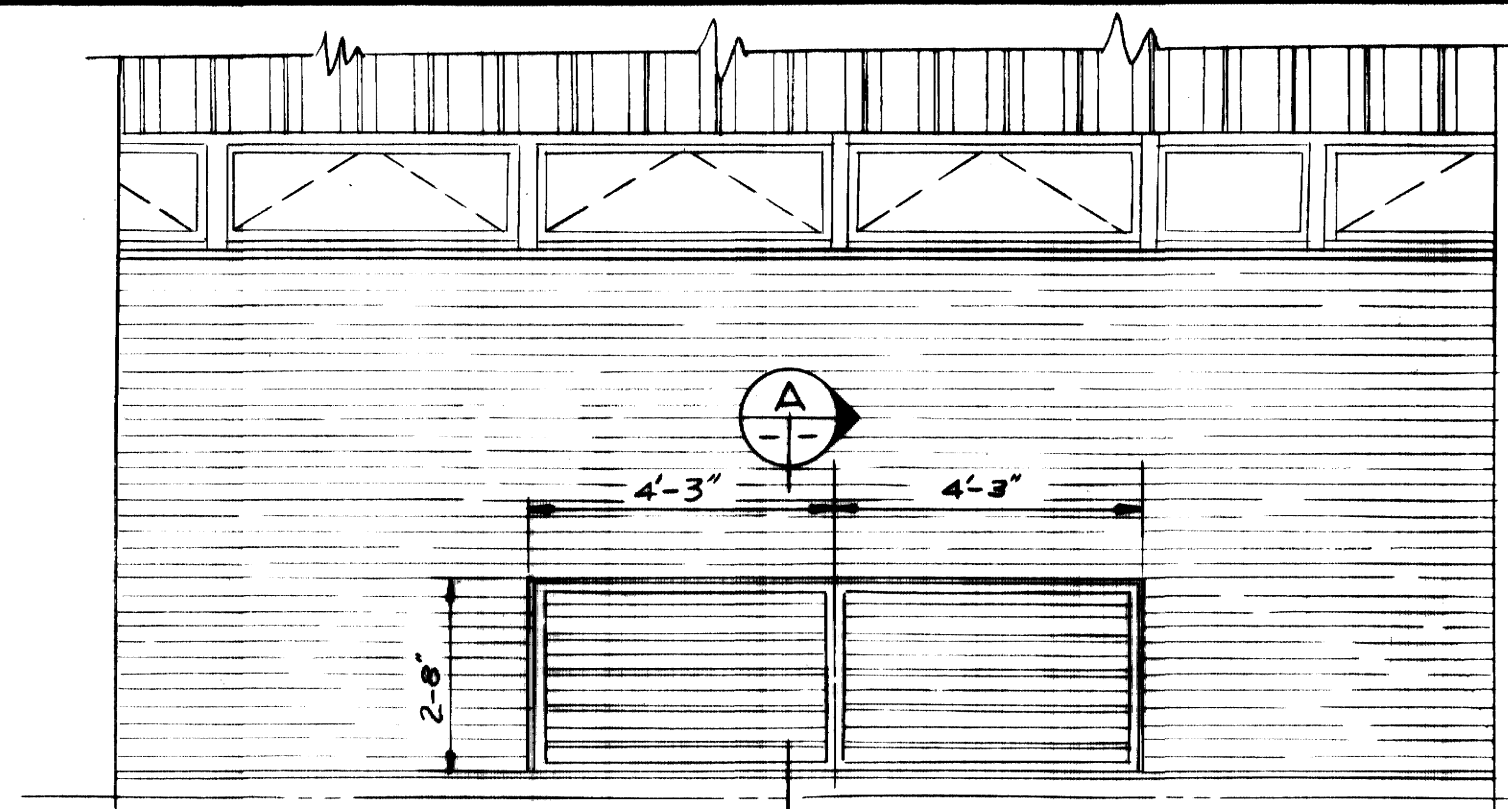


NOTES:  
 1) 3/8" BASE PLATE FOR TURBINE AND MOTOR ARE TO BE SET LEVEL. PLATES ARE TO BE DRILLED FOR ANCHOR BOLTS AND ARE TO BE ADJUSTED BY THE CONTRACTOR AS REQUIRED FOR COMPATIBILITY BETWEEN TURBINE, FAN, AND MOTOR.  
 2) PAD ELEVATIONS SHOWN ARE APPROX. ONLY AND ARE TO BE ADJUSTED BY THE CONTRACTOR AS REQUIRED FOR COMPATIBILITY BETWEEN TURBINE, FAN, AND MOTOR.  
 3) SIZE AND LOCATION OF ANCHOR BOLTS FOR MOTOR AND TURBINE ARE TO BE AS REQUIRED BY MFG'S.

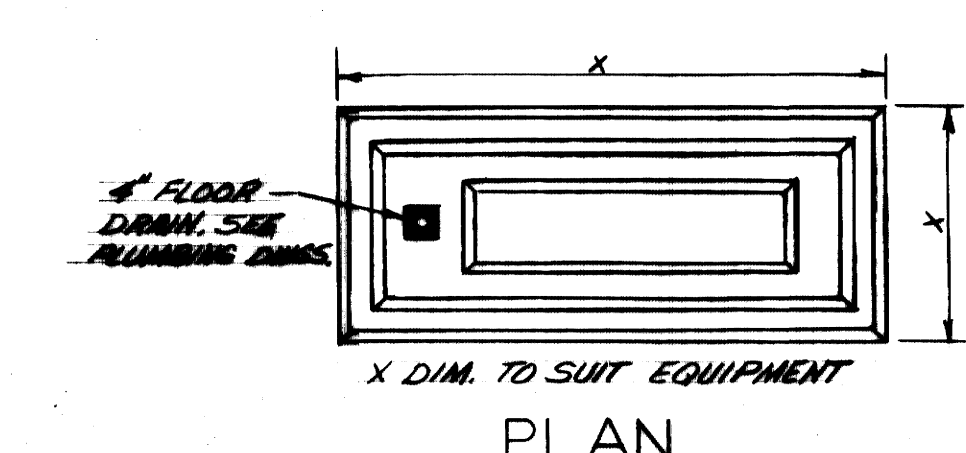
AS-BUILT DRAWING  
 REVISIONS MADE DURING CONSTRUCTION HAVE BEEN INCLUDED ON THIS DRAWING.  
 MASON & HANGER - SILAS MASON CO., INC.  
 BY GFS DATE 1-10-72  
 NO REVISIONS

ADDITIONS & RENOVATIONS		
HEATING & COOLING PLANT - A. B. CHANDLER MEDICAL CENTER UNIVERSITY OF KENTUCKY LEXINGTON, KENTUCKY		
DRAWN BY J.S.M.	REMOVABLE WALL PANEL-DETAILS	DATE 5-28-70
TRACED BY P.F.H.	MASON & HANGER - SILAS MASON CO., INC. 1500 W. MAIN ST. LEXINGTON, KENTUCKY	SCALE AS NOTED SPEC. NO.
CHECKED BY P.F.H.	COMMONWEALTH OF KENTUCKY DEPARTMENT OF FINANCE DIVISION OF ENGINEERING FRANKFORT, KENTUCKY	DRAWING NO. S-10
APPROVED BY [Signature]	DATE 5-28-70	
APPROVED BY [Signature]	DATE 6-1-70	

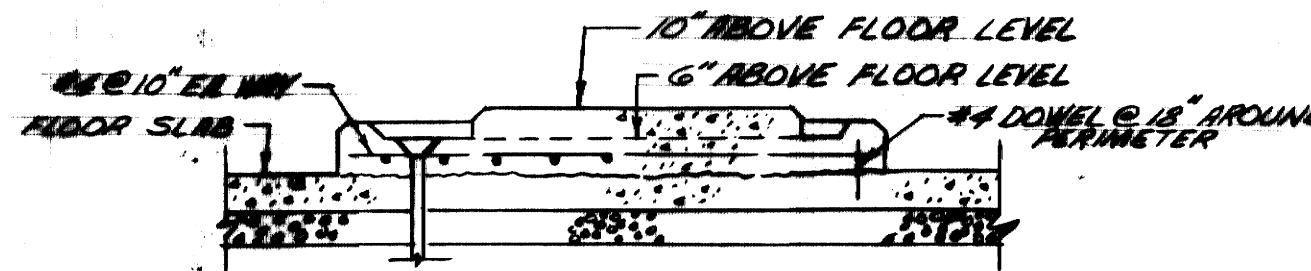




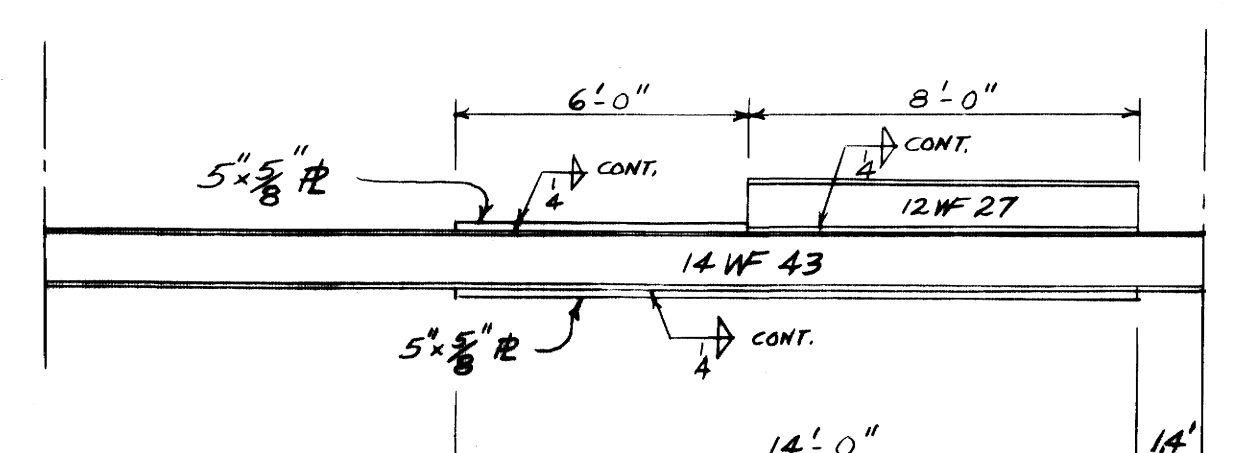
ELEVATION A  
SCALE: 3/4" = 1'-0"



PLAN  
X DIM. TO SUIT EQUIPMENT

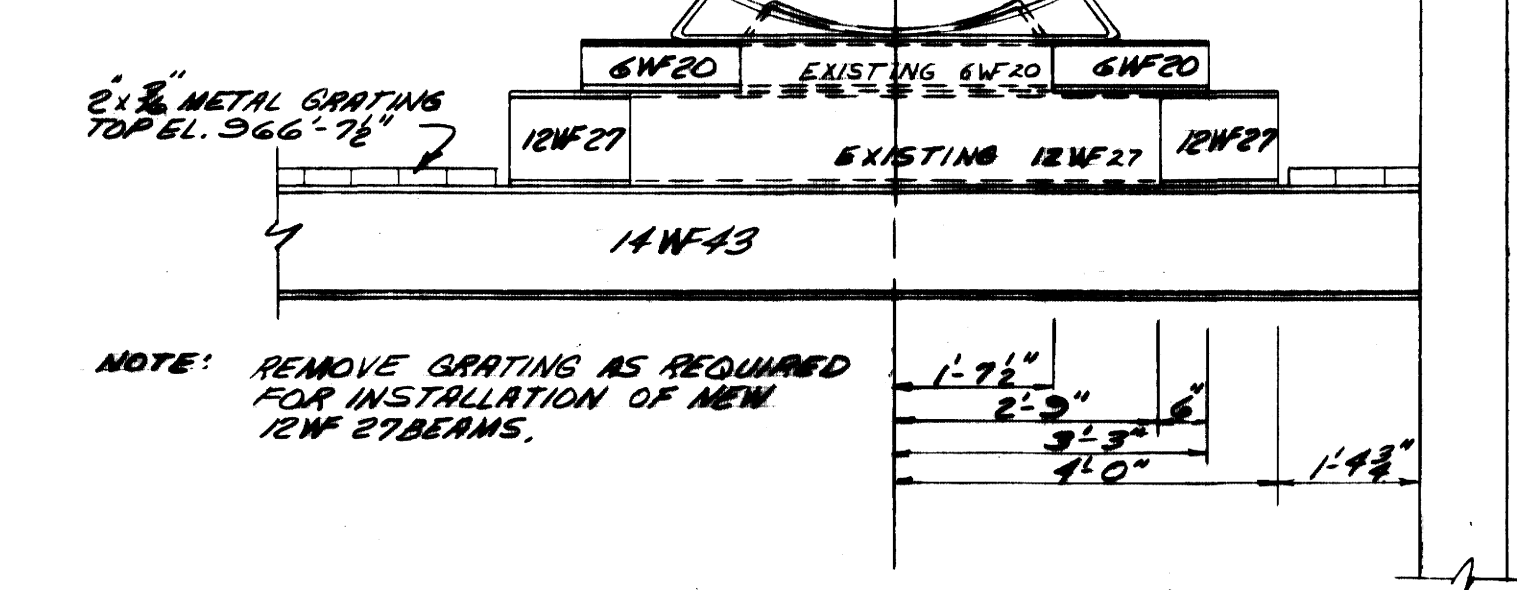
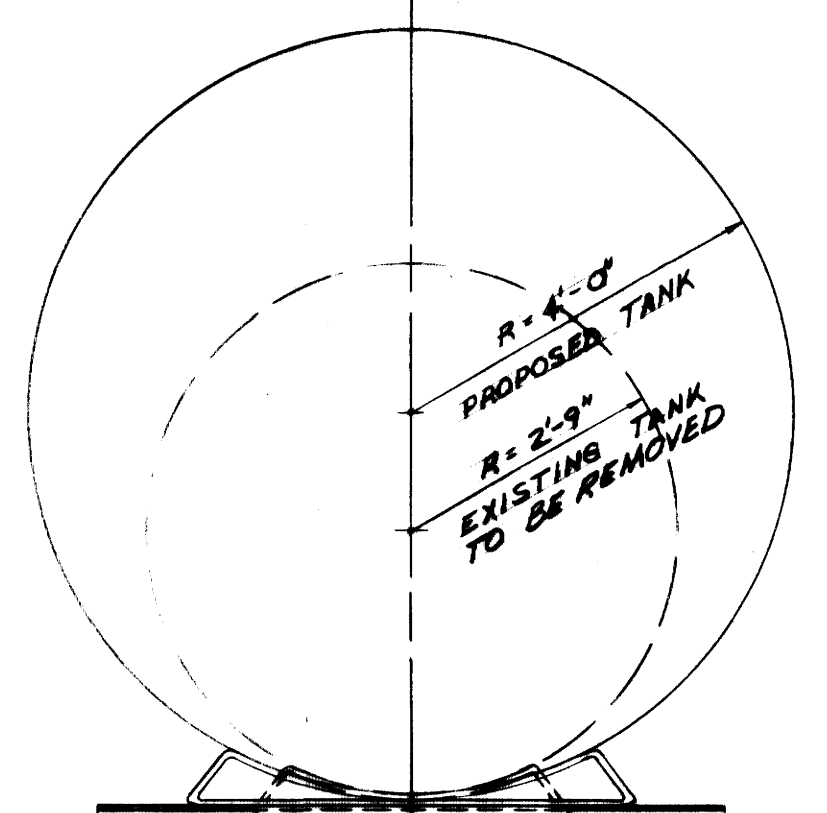


DETAIL OF CONCRETE BASE FOR FEED PUMP  
NO SCALE

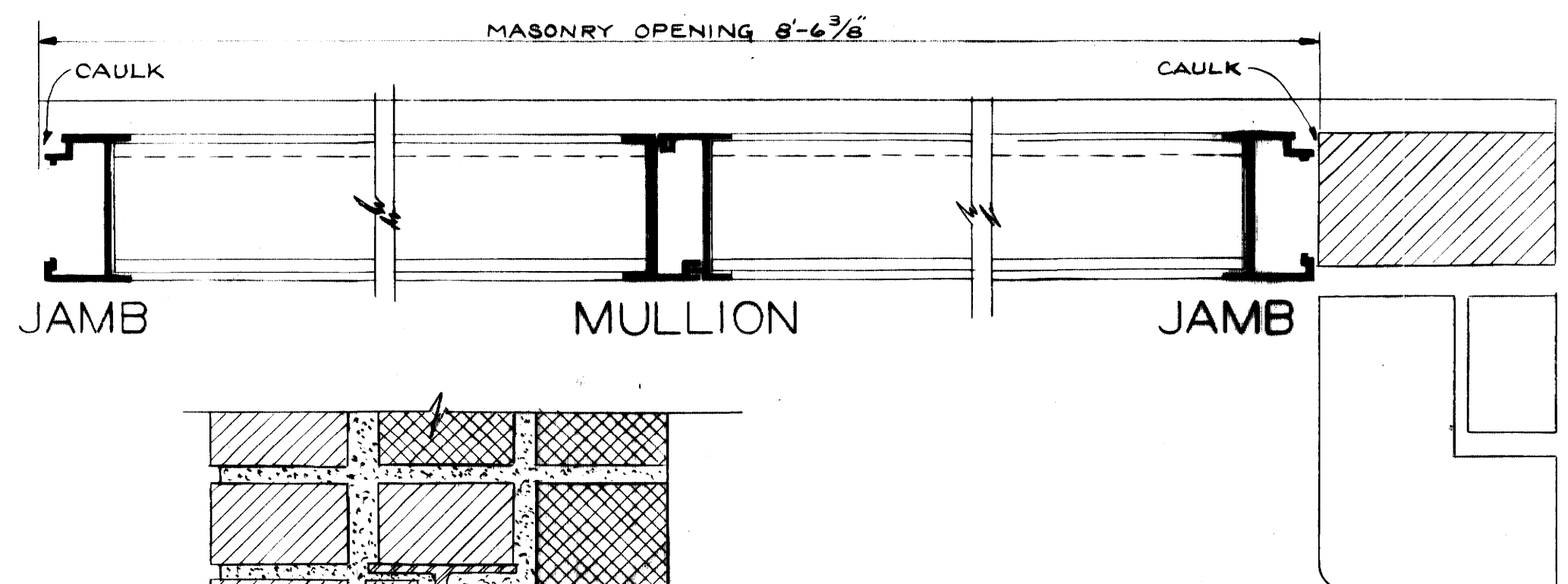


AS-BUILT NOTE

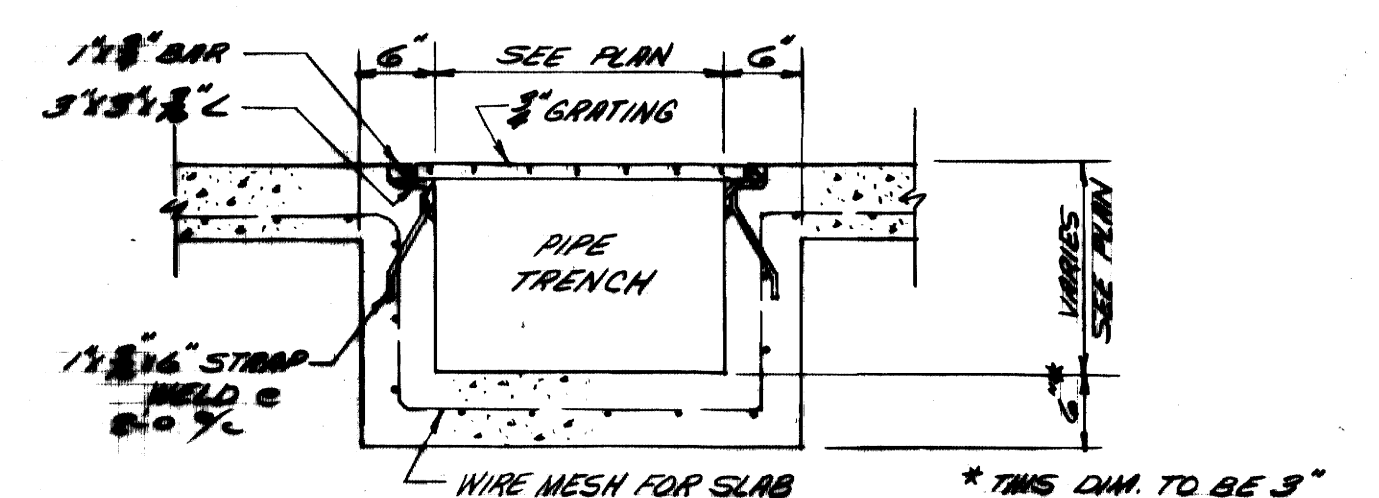
NEW SURGE TANK WAS LOCATED FURTHER FROM EAST WALL THAN PLANNED DUE TO EXISTING PIPING ARRANGEMENT. PLATES SHOWN IN ELEVATION ABOVE WERE ADDED TO EXISTING STRUCTURAL BEAM NEAR SOUTH END OF NEW SURGE TANK.



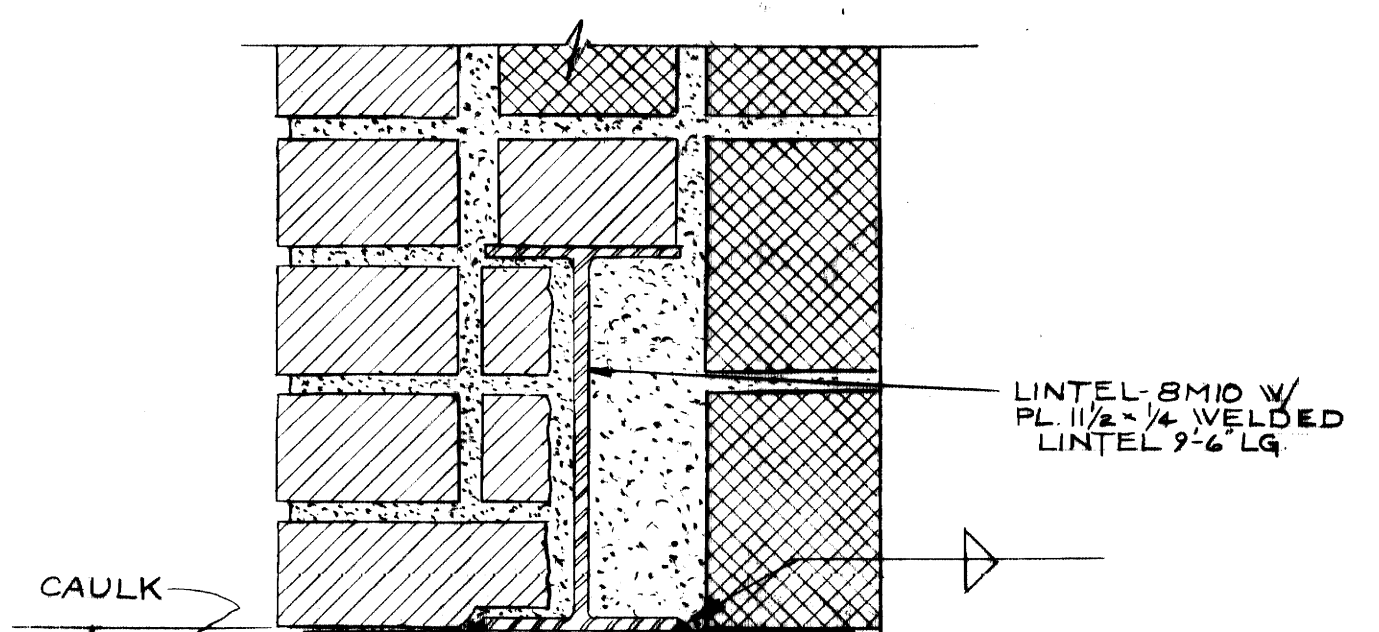
SECTION B  
SCALE: 1/2" = 1'-0"



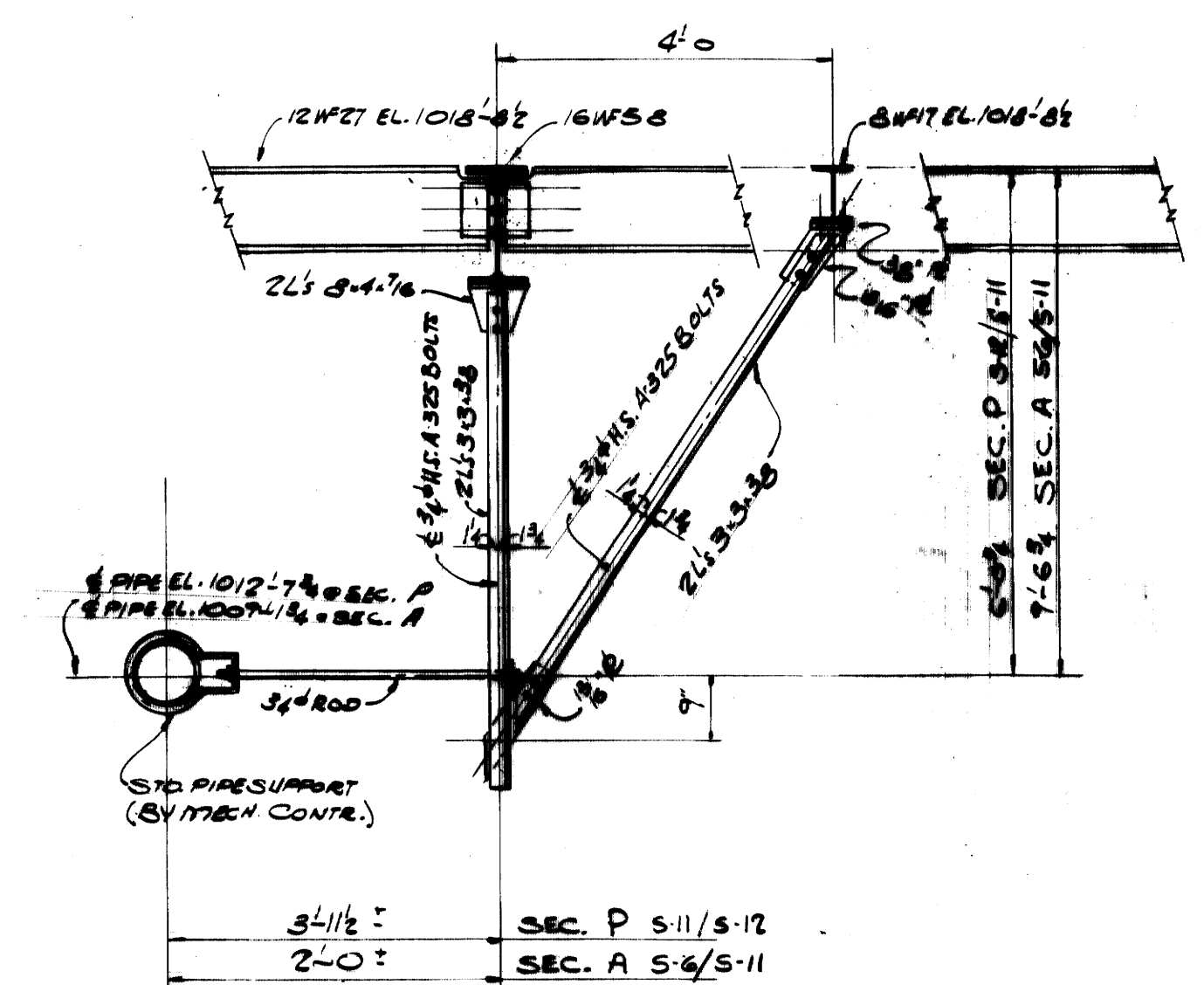
JAMB MULLION JAMB



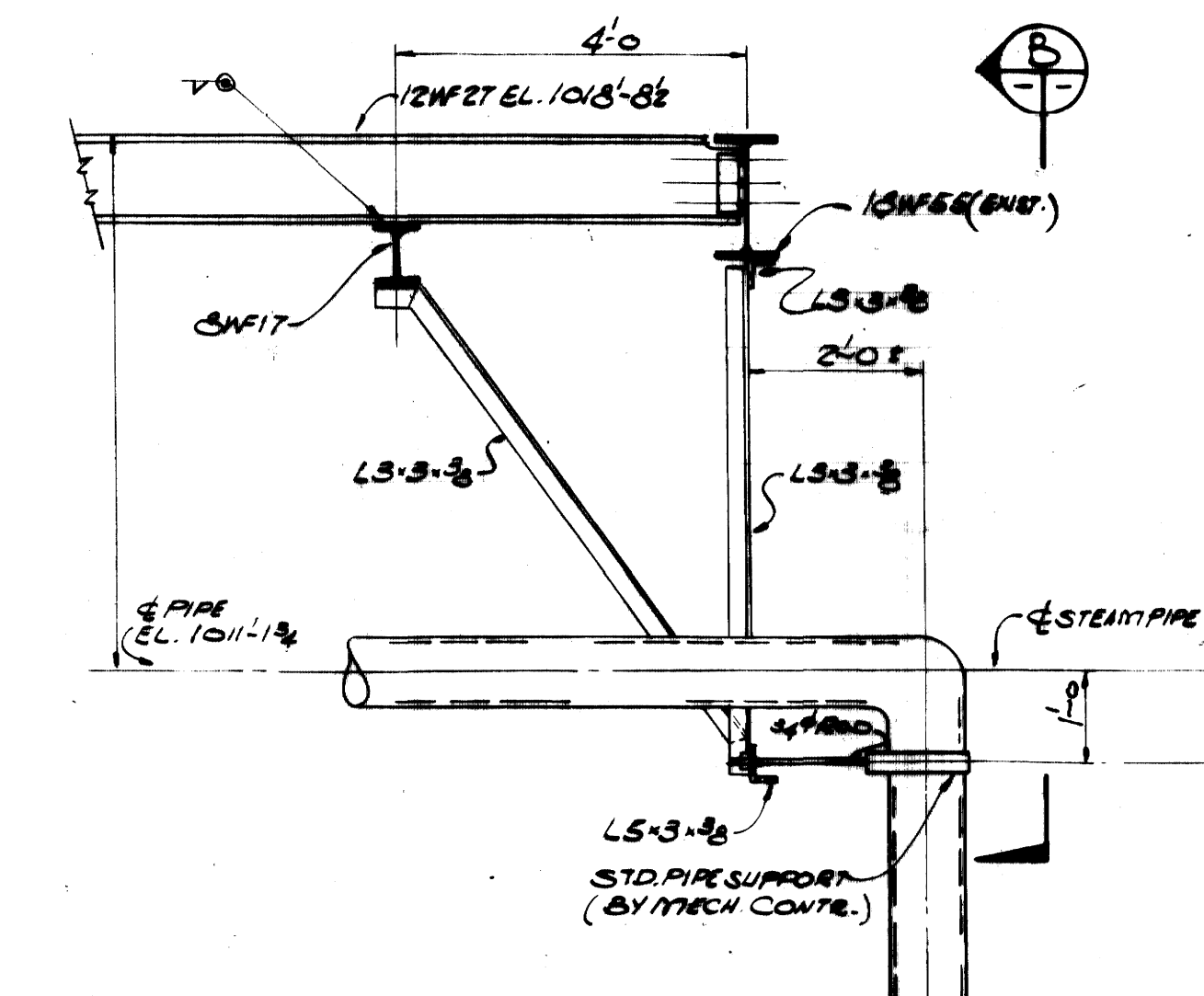
SECTION G  
SCALE: 3/4" = 1'-0"



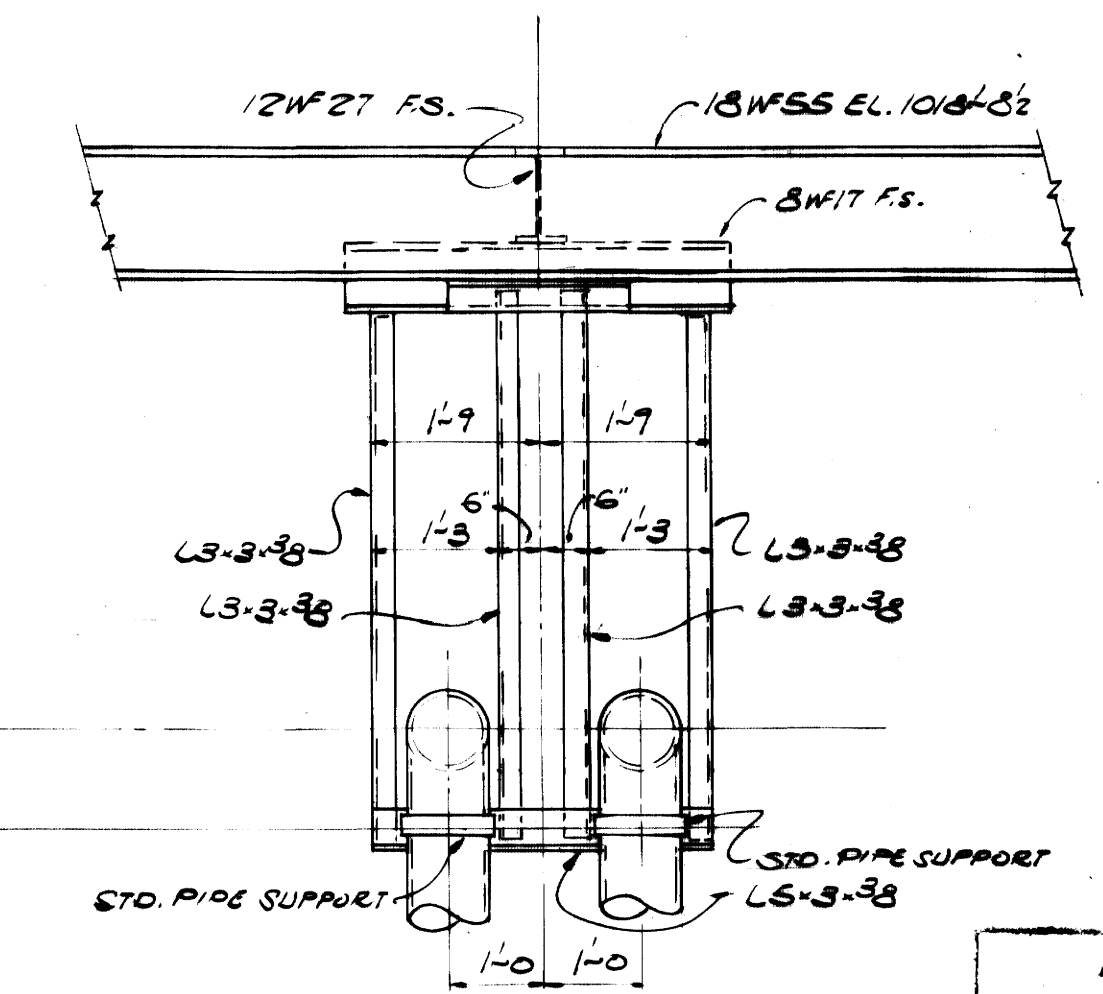
LINTEL 8" MID W/ PL 1/2" x 1/4" WELDED LINTEL 9" x 4" LG



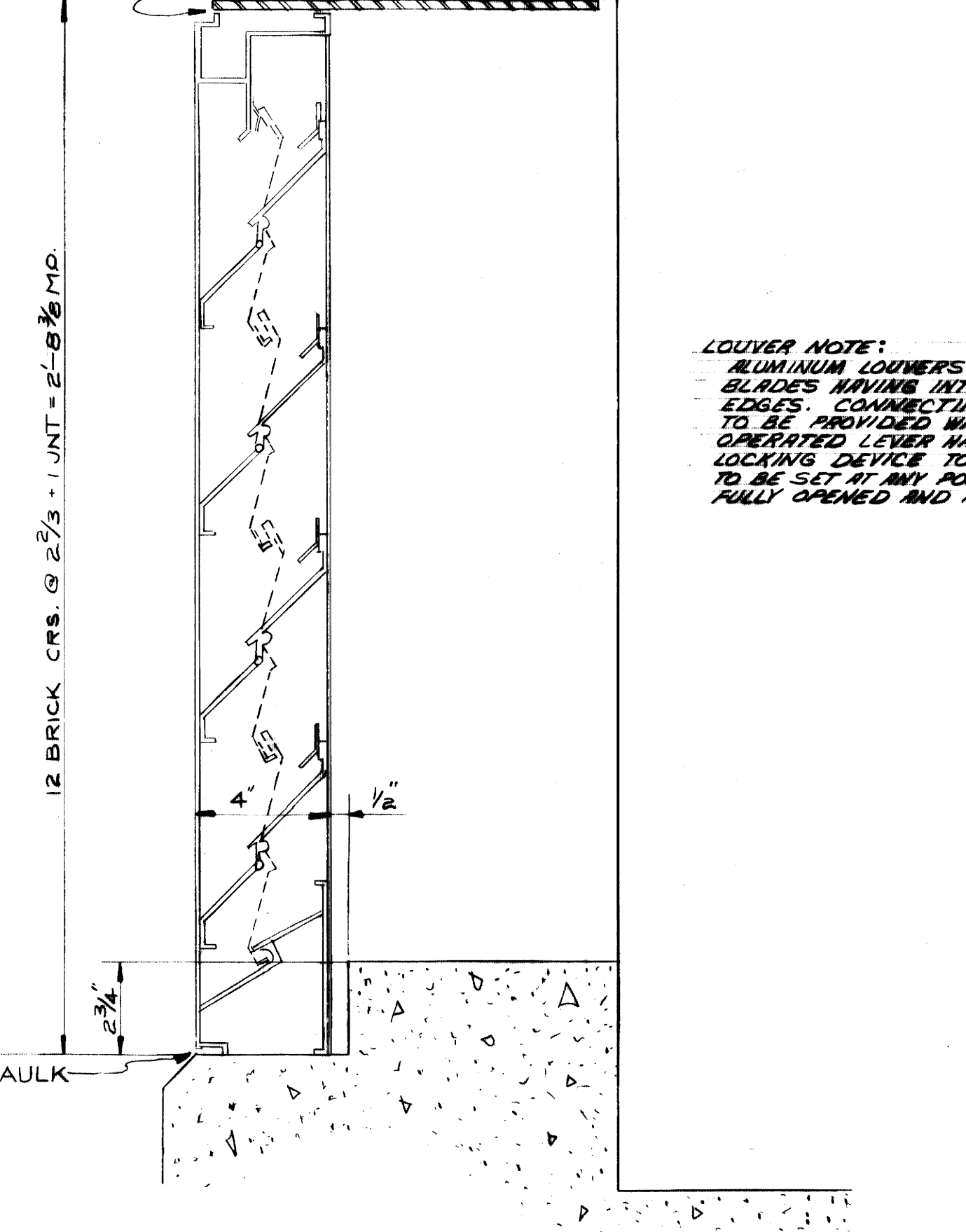
SECTION P  
SCALE: 1/2" = 1'-0"



SECTION C  
SCALE: 1/2" = 1'-0"

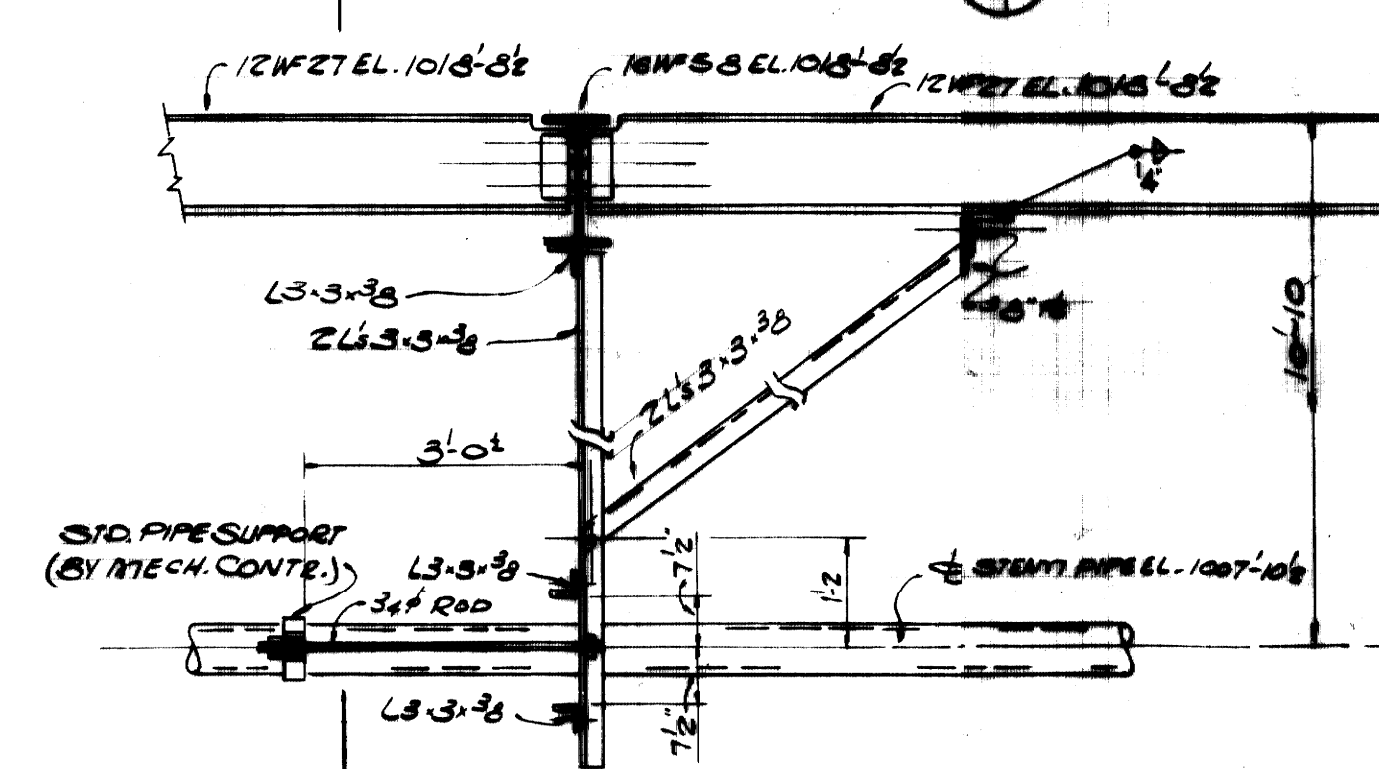


SECTION B  
SCALE: 1/2" = 1'-0"

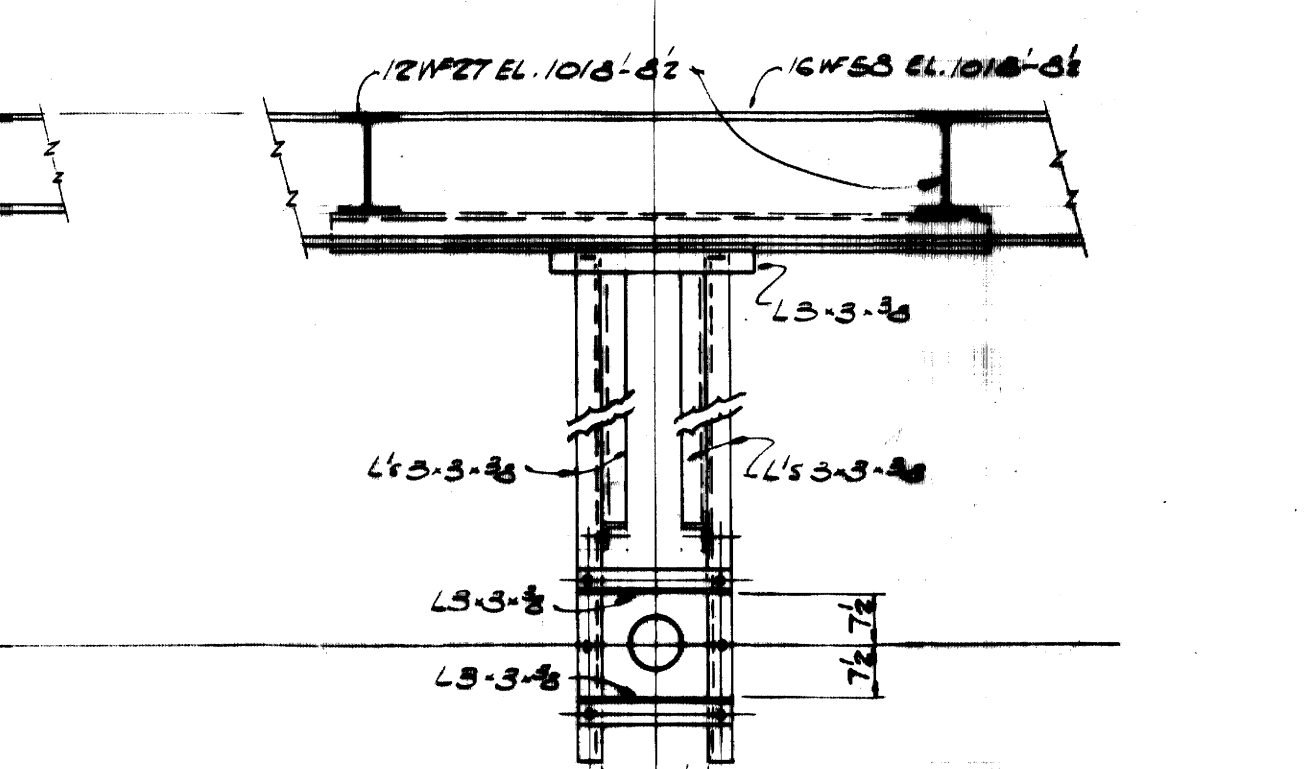


SECTION A  
SCALE: 3/8" = 1'-0"

LOUVER NOTE:  
ALUMINUM LOUVERS WITH PIVOTED BLADES HAVING INTERLOCKING FELTED EDGES. CONNECTING BLADE LIMBS TO BE PROVIDED WITH A MANUALLY OPERATED LEVER HAVING A WING-NUT LOCKING DEVICE TO PERMIT BLADES TO BE SET AT ANY POSITION BETWEEN FULLY OPENED AND FULLY CLOSED.



SECTION N  
SCALE: 1/2" = 1'-0"



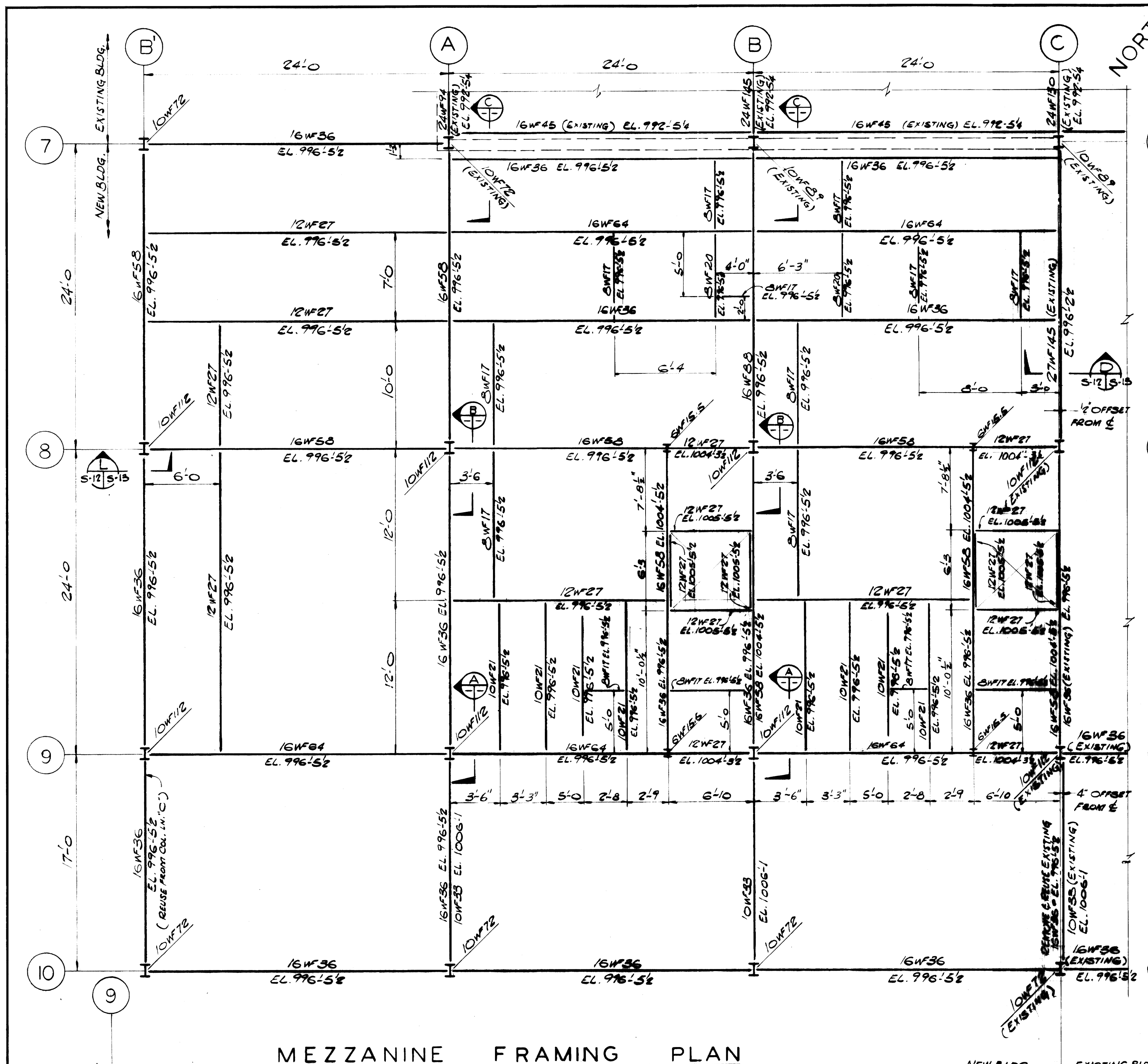
SECTION A  
SCALE: 1/2" = 1'-0"

AS-BUILT DRAWING  
REVISIONS MADE DURING CONSTRUCTION HAVE BEEN INCLUDED ON THIS DRAWING.  
MASON & HANGER - S.M.A.S. MASON CO., INC.  
BY GFS DATE 1-10-72  
ADDED REINFORCING PLATES TO SURGE TANK SUPPORTING BEAM

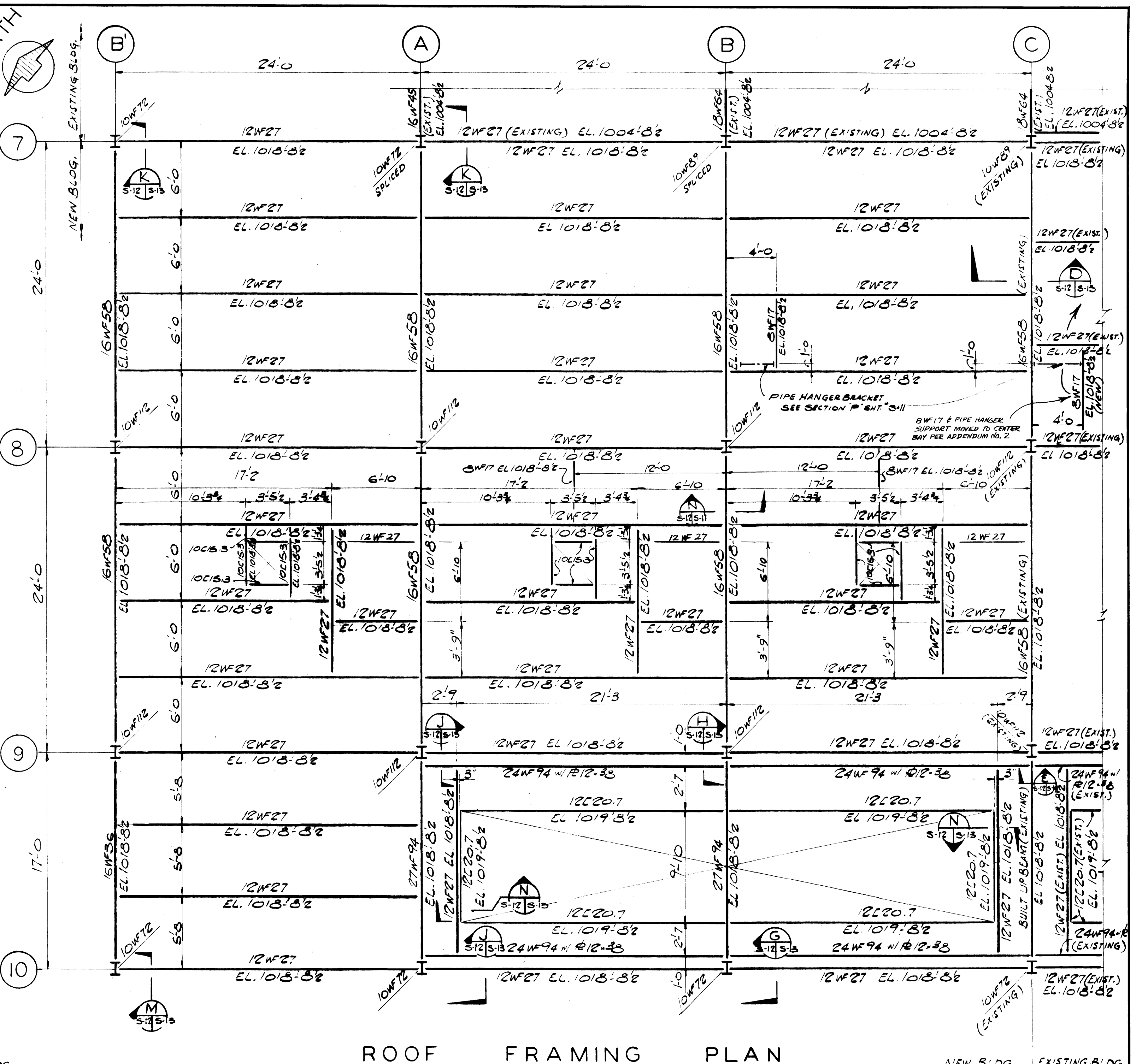


ADDITIONS & RENOVATIONS		
HEATING & COOLING PLANT - A. B. CHANDLER MEDICAL CENTER		
UNIVERSITY OF KENTUCKY		LEXINGTON, KENTUCKY
DRAWN BY	MISCELLANEOUS DETAILS	DATE 5-28-70
TRACED BY	MASON & HANGER - S.M.A.S. MASON CO., INC.	SCALE AS NOTED
CHECKED BY	1500 W. MAIN ST.	SPEC. NO.
	LEXINGTON, KENTUCKY	
COMMONWEALTH OF KENTUCKY		DRAWING NO.
DEPARTMENT OF FINANCE		S-11
DIVISION OF ENGINEERING		
FRANKFORT, KENTUCKY		
APPROVED BY	<i>C. J. Marshall</i>	DATE 5-28-70
	AGENCY HEAD	
APPROVED BY	<i>W. J. McConville</i>	DATE 6-1-70
	DIRECTOR, DIVISION OF ENGINEERING	

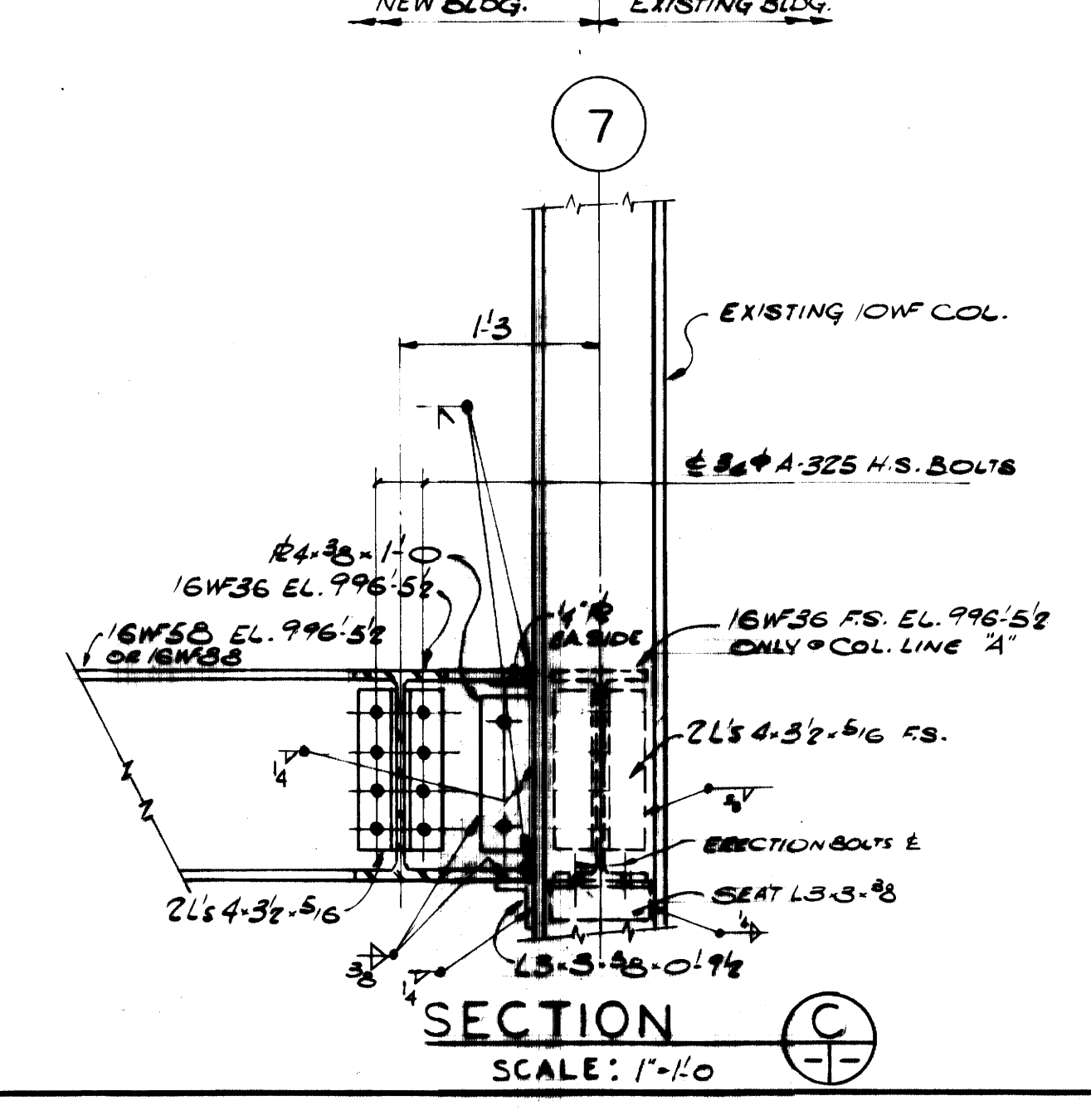
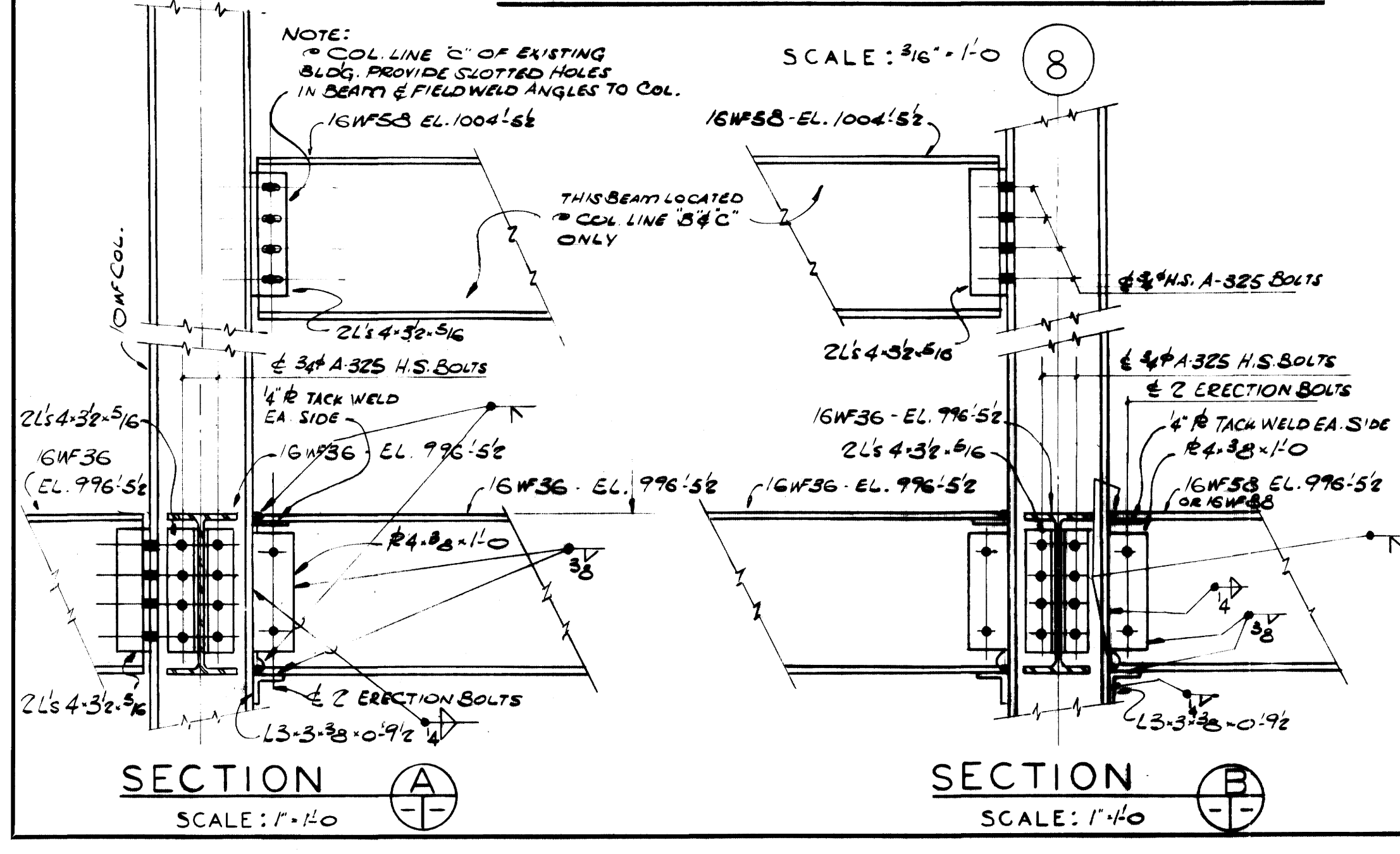




MEZZANINE FRAMING PLAN



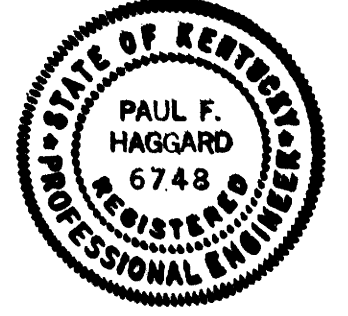
ROOF FRAMING PLAN

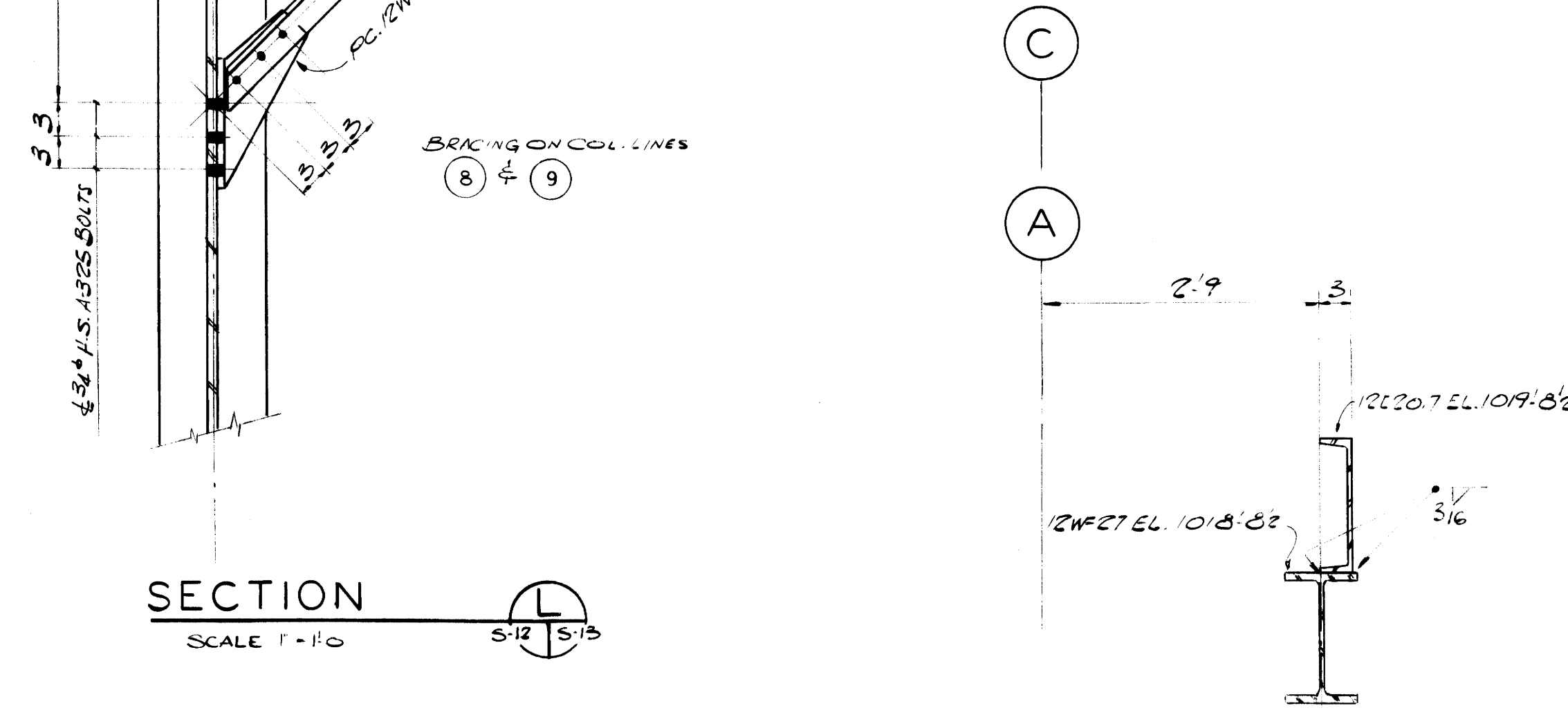
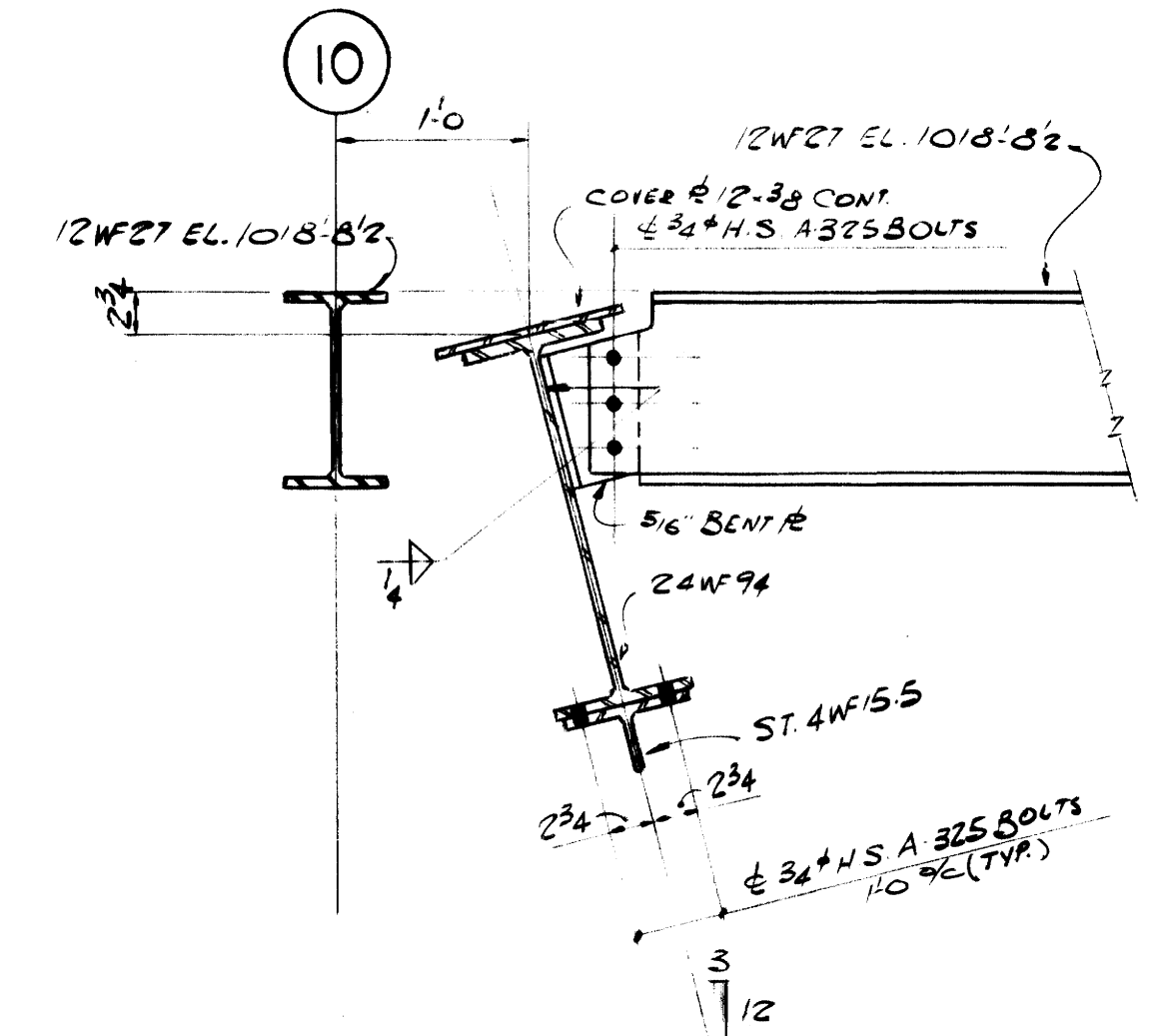
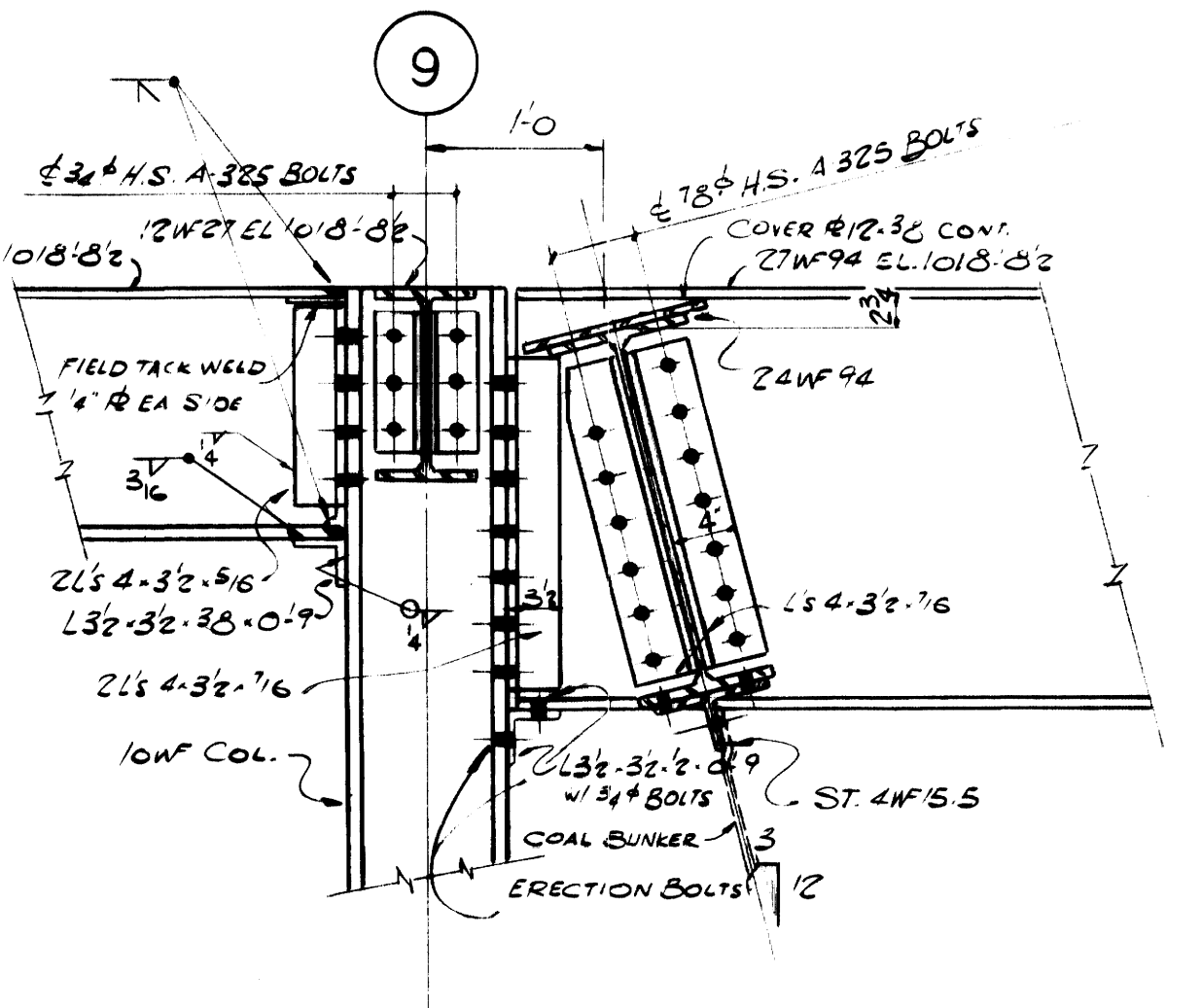
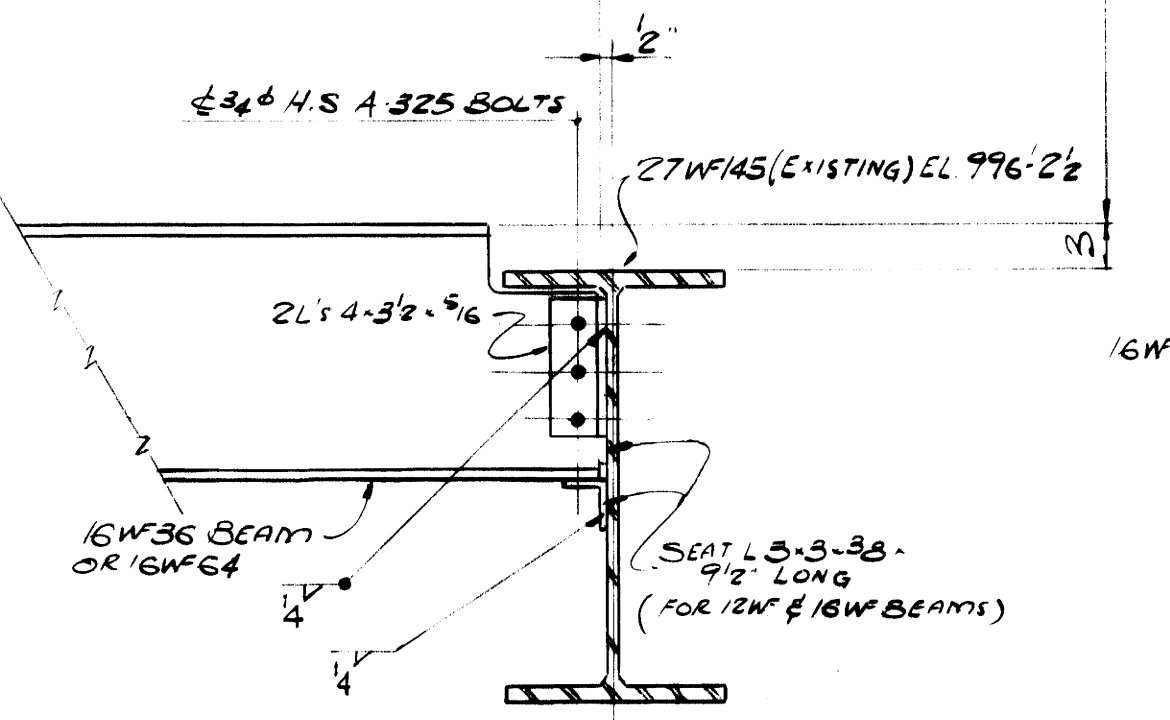
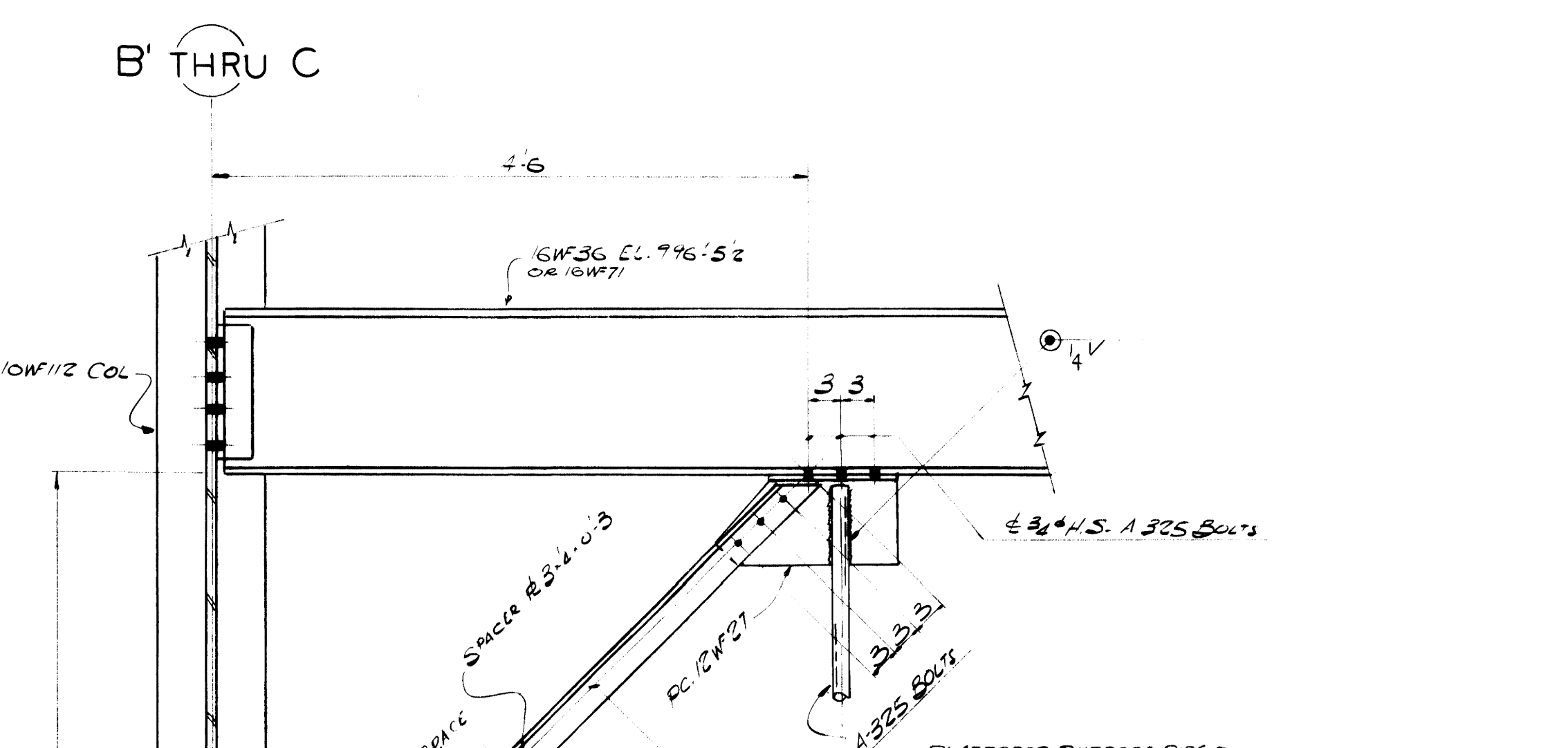
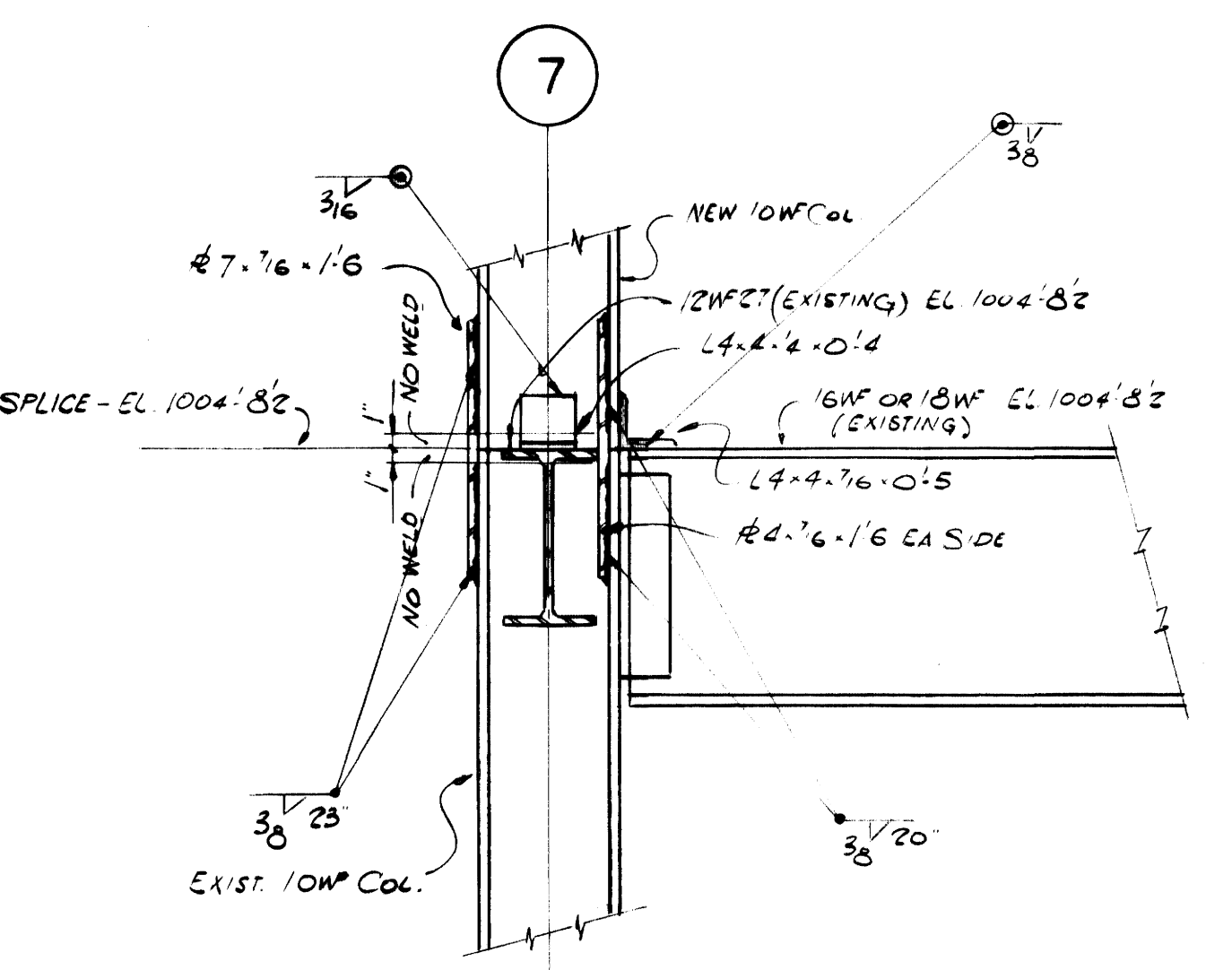
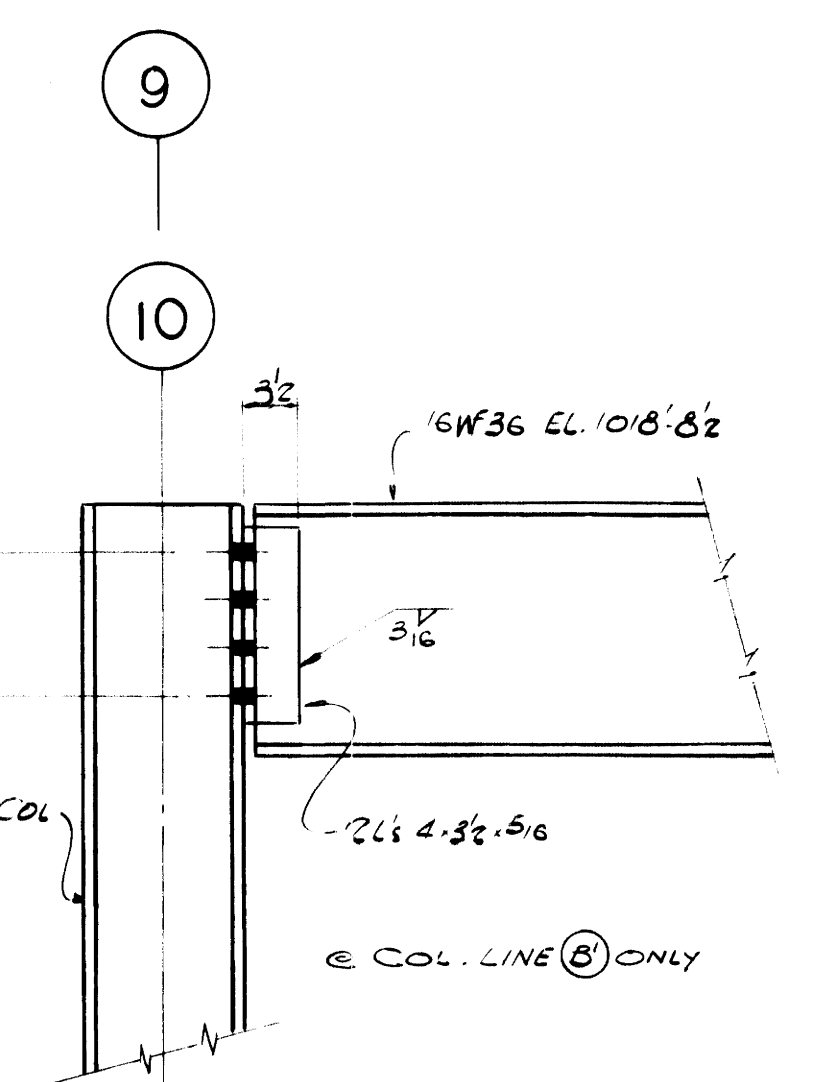
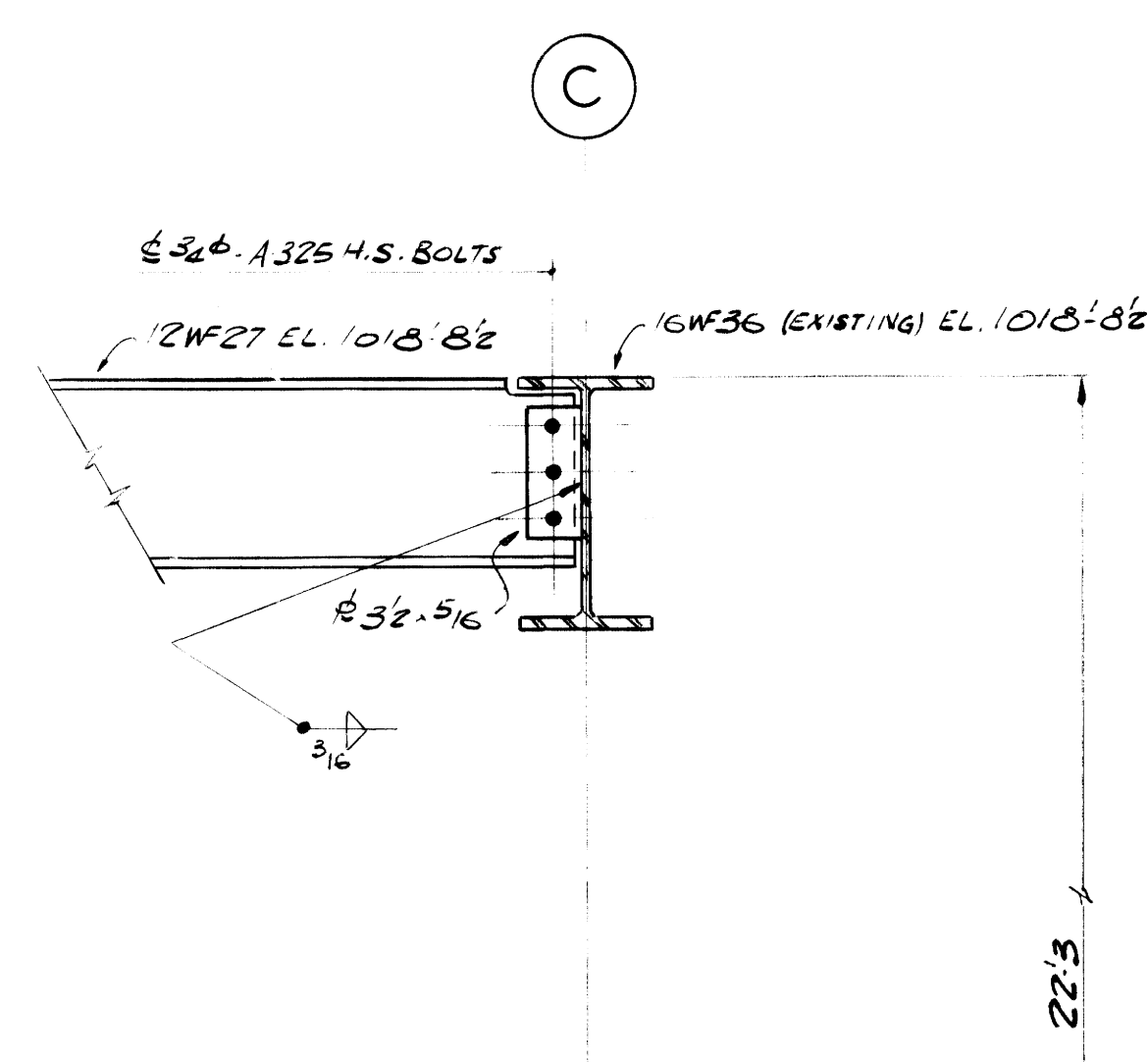


NOTE:  
 10 COL. LINE "C" OF EXISTING BLDG. PROVIDE SLOTTED HOLES IN BEAM & FIELD WELD ANGLES TO COL.

AS - BUILT DRAWING  
 REVISIONS MADE DURING CONSTRUCTION HAVE BEEN INCLUDED ON THIS DRAWING  
 MASON & HANGER - SILAS MASON CO., INC.  
 BY GFS DATE 1-10-72  
 ON MEZZANINE PLAN  
 NOTED RELOCATION R/W IN O.P.R. BUILDING AND THERE IS NO @ BOLTER STAGE OPENINGS REVISED DIMENSIONS FOR STALK OPENING LOCATION

ADDITIONS & RENOVATIONS		
HEATING & COOLING PLANT - A. B. CHANDLER MEDICAL CENTER		
UNIVERSITY OF KENTUCKY LEXINGTON, KENTUCKY		
DRAWN BY	J.S.M.	BLDG. FRAMING PLANS & DTLs
TRACED BY	MASON & HANGER - SILAS MASON CO., INC.	1500 W. MAIN ST. LEXINGTON, KENTUCKY
CHECKED BY	P.F.H.	COMMONWEALTH OF KENTUCKY DEPARTMENT OF FINANCE DIVISION OF ENGINEERING FRANKFORT KENTUCKY
APPROVED BY	<i>C. J. Marshall</i>	DATE 5-28-71
APPROVED BY	<i>P. F. Haggard</i>	DATE 6-1-70
DATE		SCALE
DATE		SPEC. NO.
DATE		DRAWING NO.
DATE		S-12



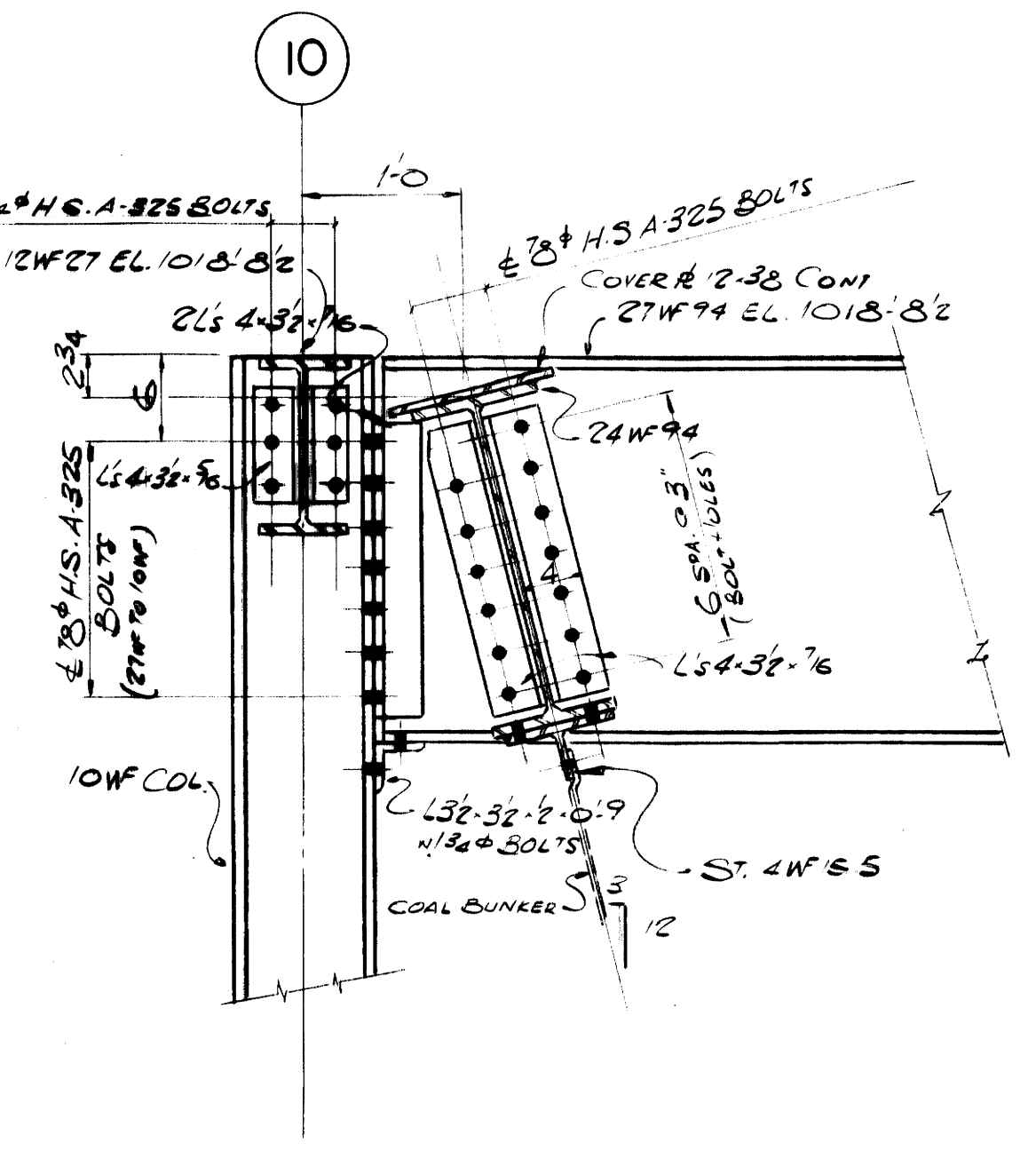
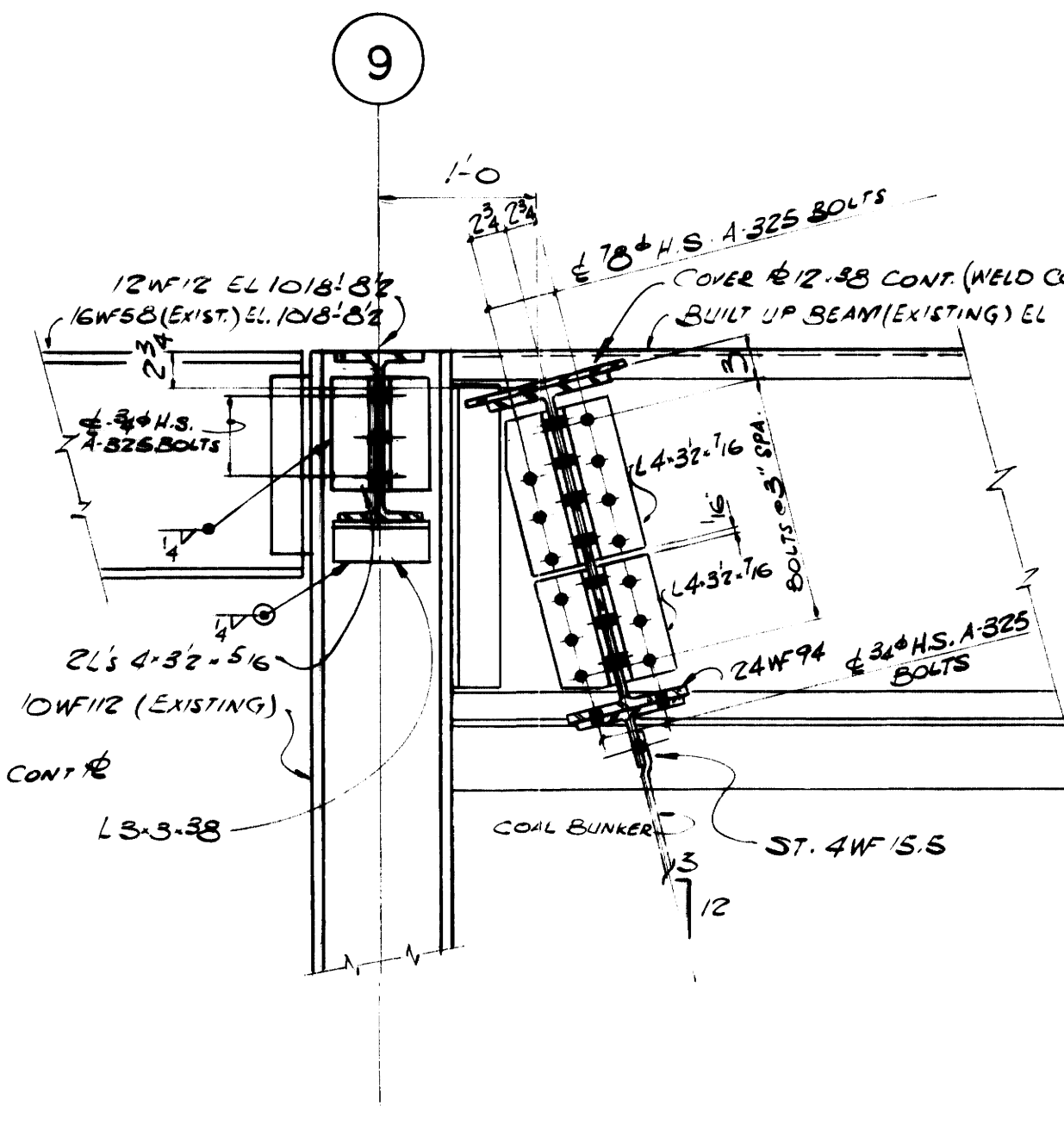
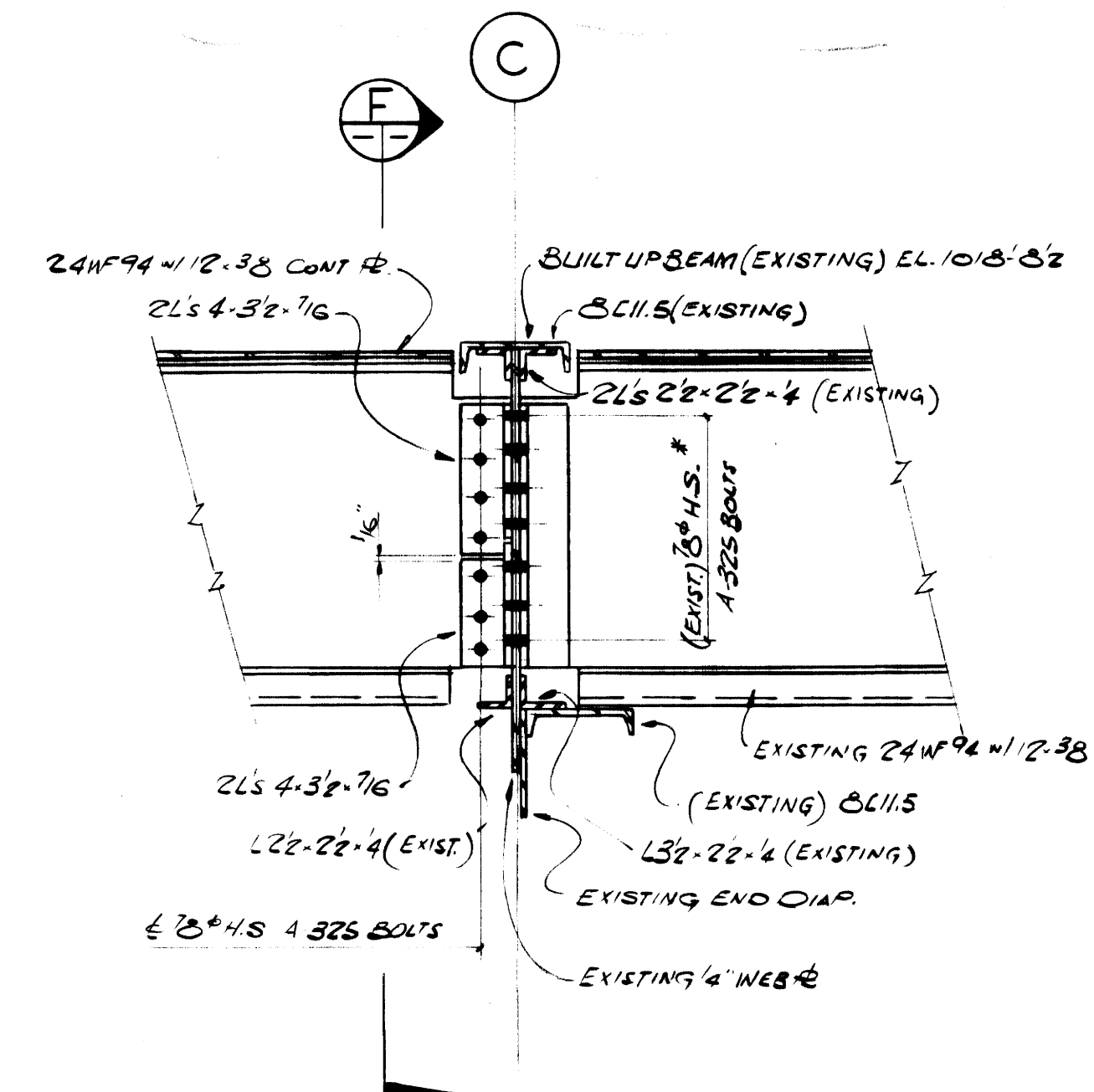


NOTE:  
 \* ONLY ONE HALF OF EXISTING BOLTS TO BE REMOVED AT ANY ONE TIME FOR THE INSTALLATION OF NEW BEAM CONN. IF LONGER BOLTS ARE REQUIRED REPLACE WITH NEW BOLTS CONN. TO BE MADE ONLY WHEN COAL BUNKER IS ONE HALF FULL OR LESS OF COAL. HOLES TO BE PROVIDED FOR CONN. OF COAL BUNKER. STRUCTURAL STEEL VENDOR TO CONSULT COAL BUNKER MANUFACTURER FOR SIZE AND SPACING OF HOLES

SECTION H SCALE: 1"=1'-0" S-12 S-13

SECTION J SCALE: 1"=1'-0" S-12 S-13

SECTION N SCALE: 1"=1'-0" S-12 S-13



SECTION E SCALE: 1"=1'-0" S-12 S-13

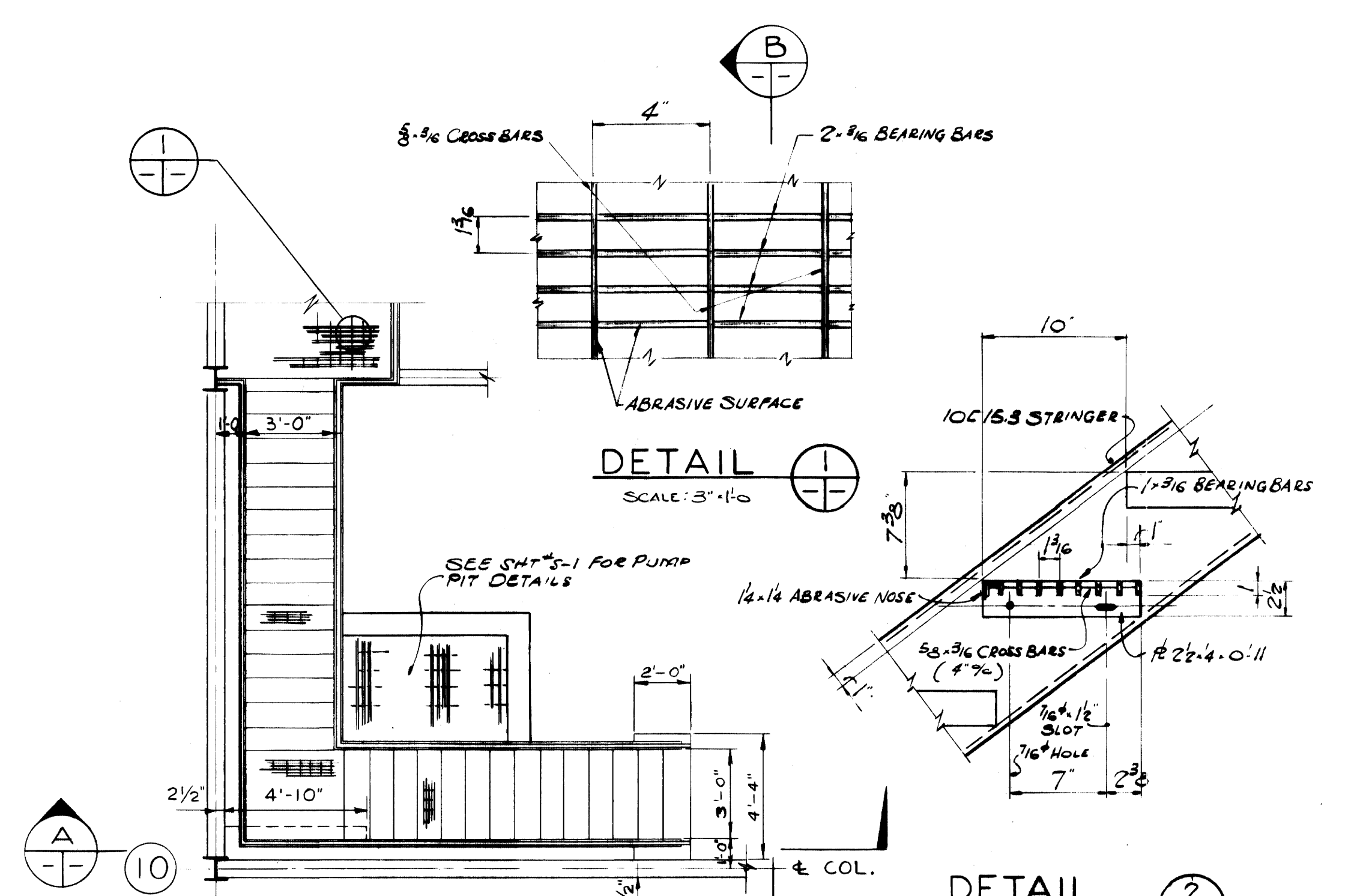
SECTION F SCALE: 1"=1'-0" S-12 S-13

SECTION G SCALE: 1"=1'-0" S-12 S-13

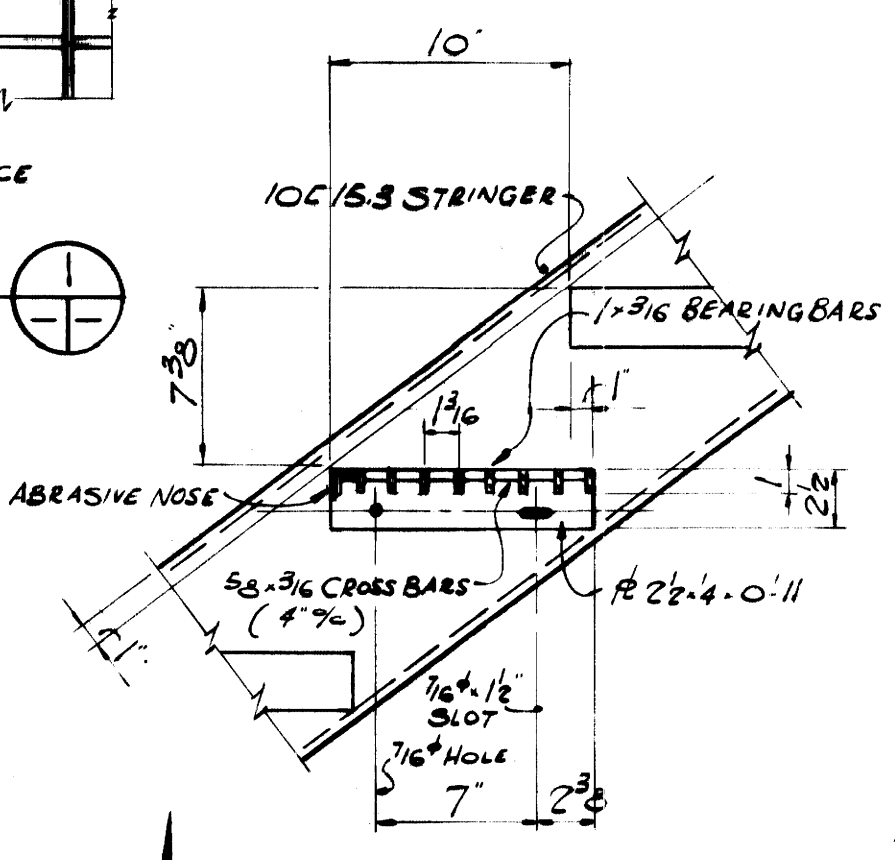
AS-BUILT DRAWING  
 REVISIONS MADE DURING CONSTRUCTION HAVE BEEN INCLUDED ON THIS DRAWING  
 MASON & HANGER - SILAS MASON CO., INC.  
 BY GFS DATE 1-10-72  
 NO REVISIONS

ADDITIONS & RENOVATIONS		
HEATING & COOLING PLANT - A. B. CHANDLER MEDICAL CENTER		
UNIVERSITY OF KENTUCKY - LEXINGTON, KENTUCKY		
DRAWN BY J.S.M.	BUILDING CONNECTION DETAILS	DATE 5-28-70
TRACED BY S.M.	MASON & HANGER - SILAS MASON CO., INC. 1500 W. MAIN ST. LEXINGTON, KENTUCKY	SCALE AS NOTED
CHECKED BY P.F.H.	COMMONWEALTH OF KENTUCKY DEPARTMENT OF FINANCE DIVISION OF ENGINEERING FRANKFORT, KENTUCKY	SPEC. NO. AS NOTED
APPROVED BY C.J. Marshall AGENCY HEAD	DATE 5-28-70	DRAWING NO. S-13
APPROVED BY D.W. Williams DIRECTOR, DIVISION OF ENGINEERING	DATE 6-1-70	

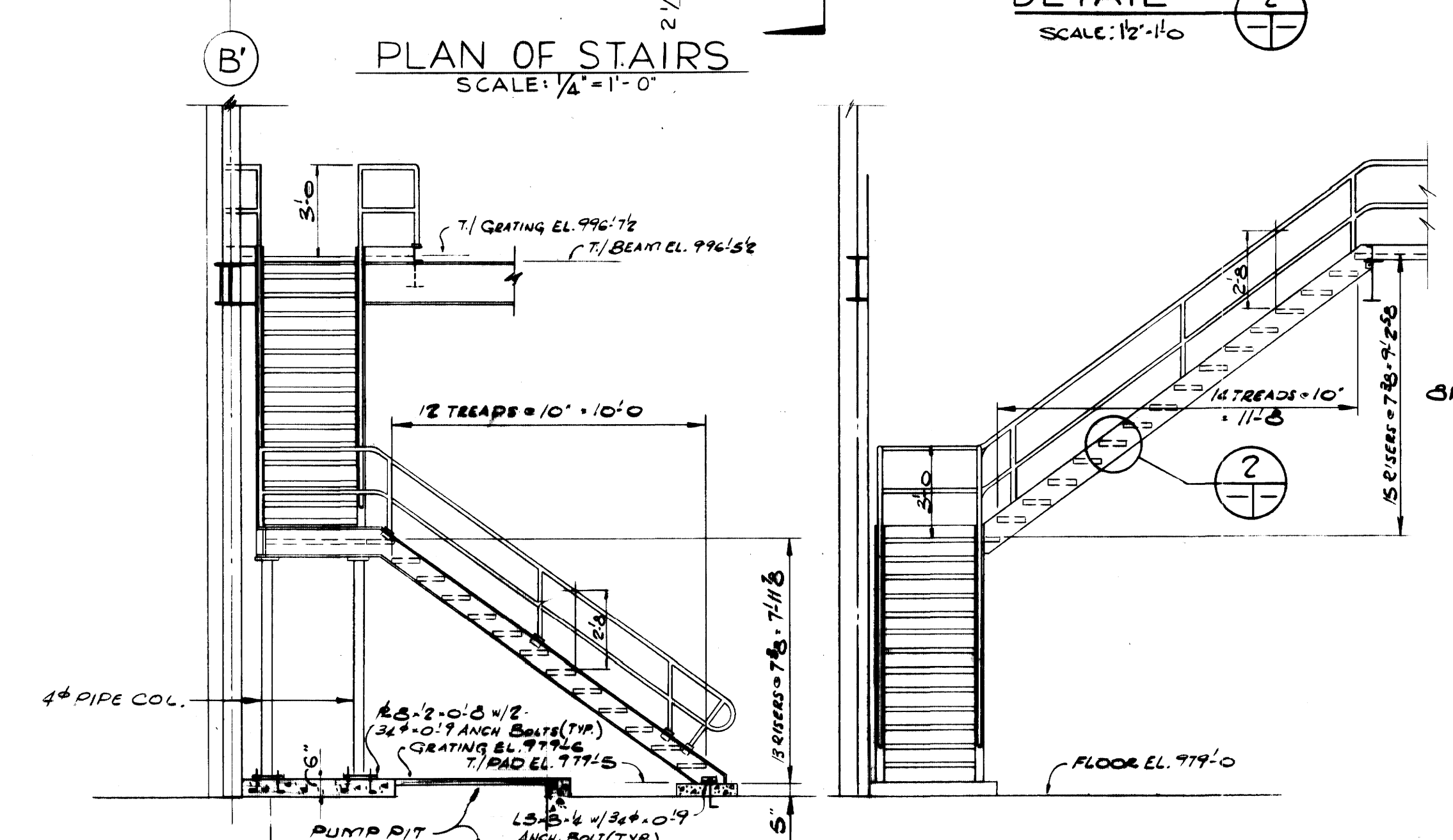




DETAIL 1  
SCALE: 3"=1'-0"

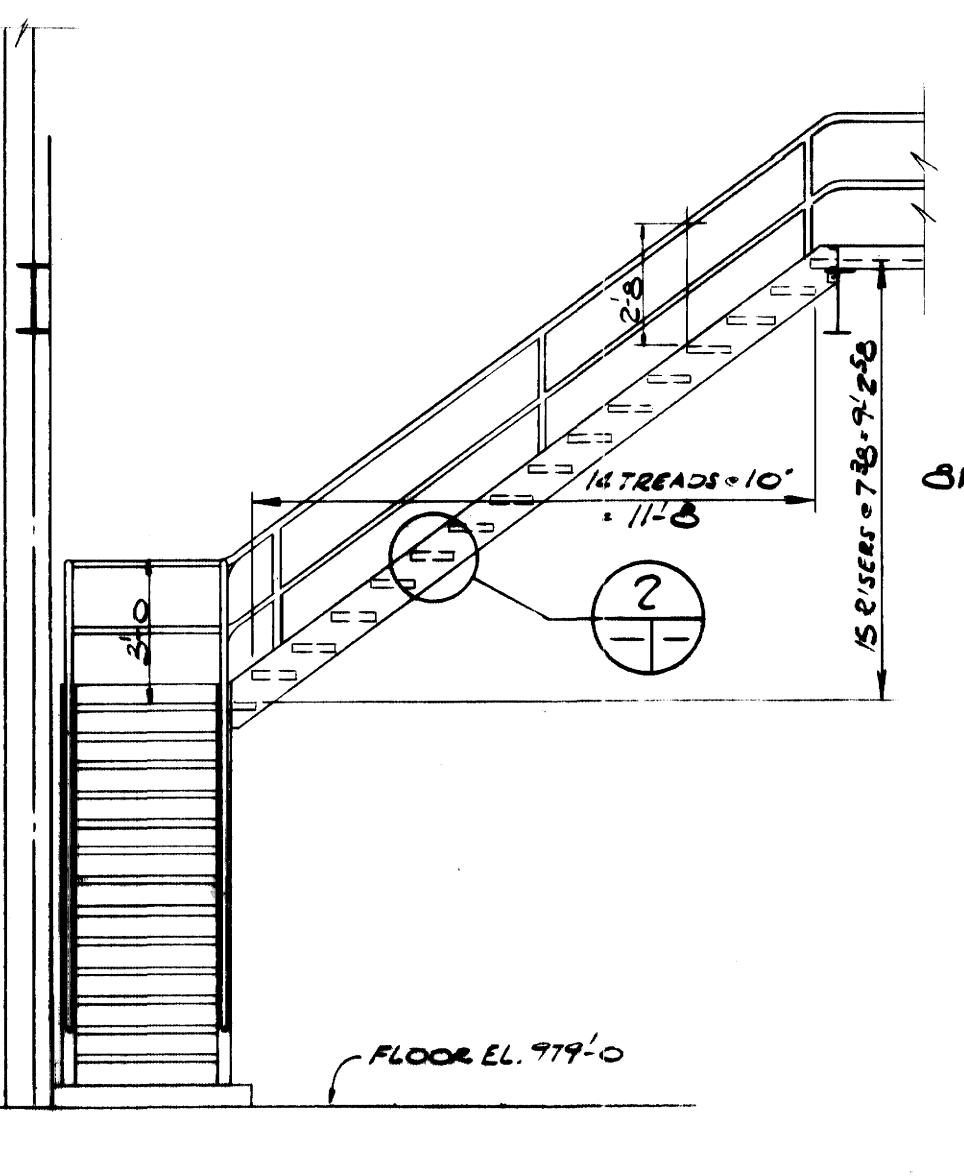


DETAIL 2  
SCALE: 1/2"=1'-0"

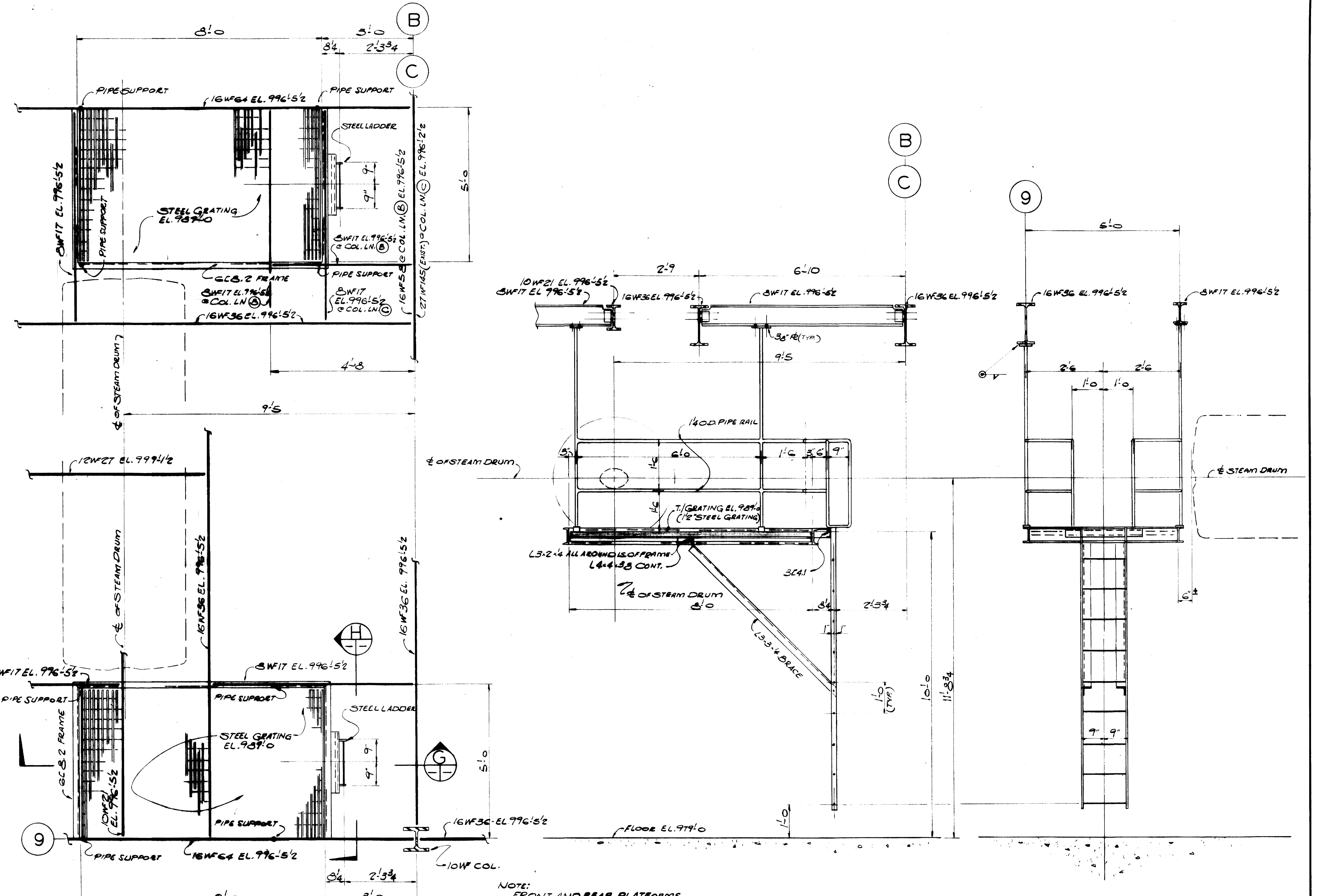


PLAN OF STAIRS  
SCALE: 1/4"=1'-0"

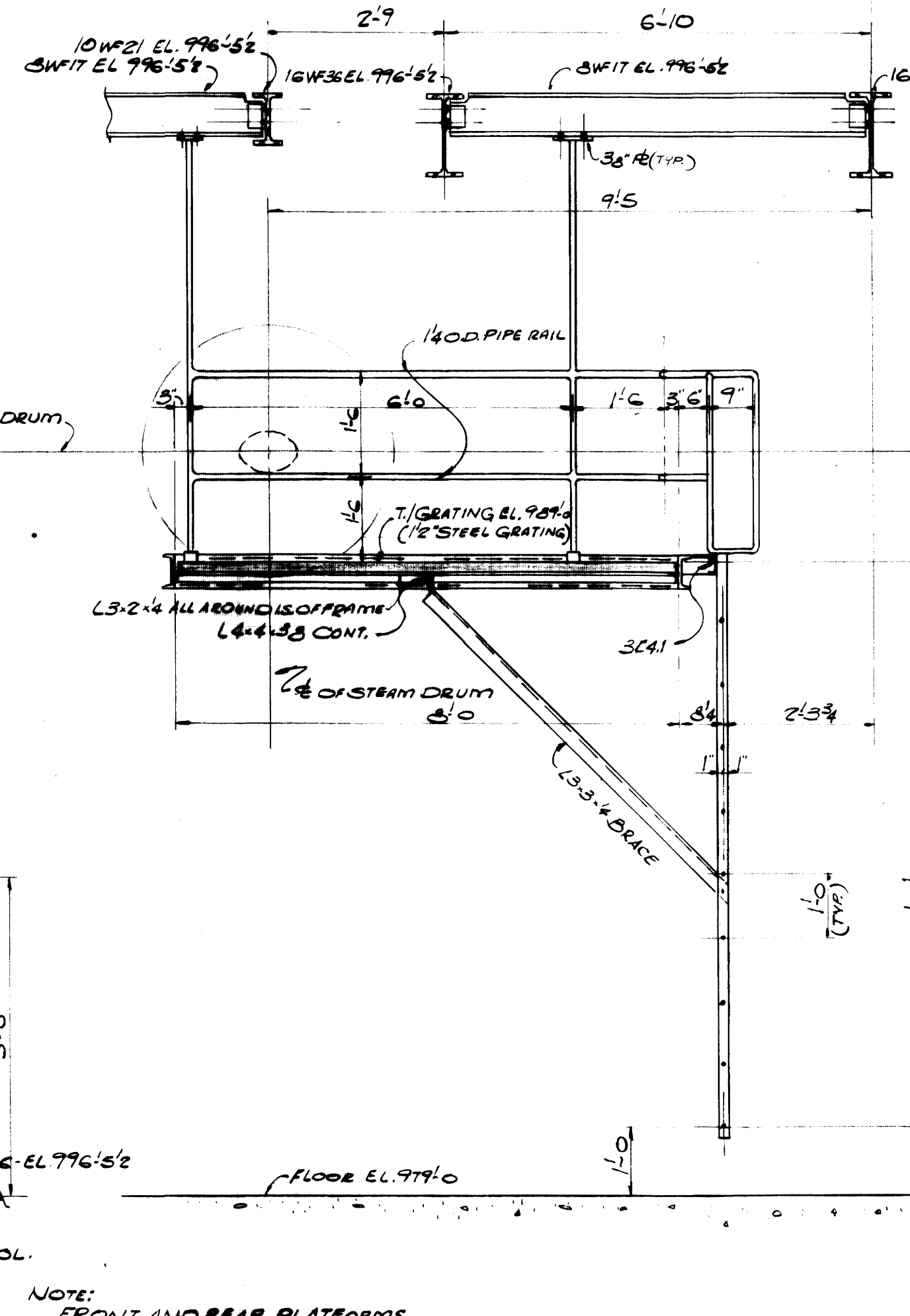
ELEVATION A  
SCALE: 1/4"=1'-0"



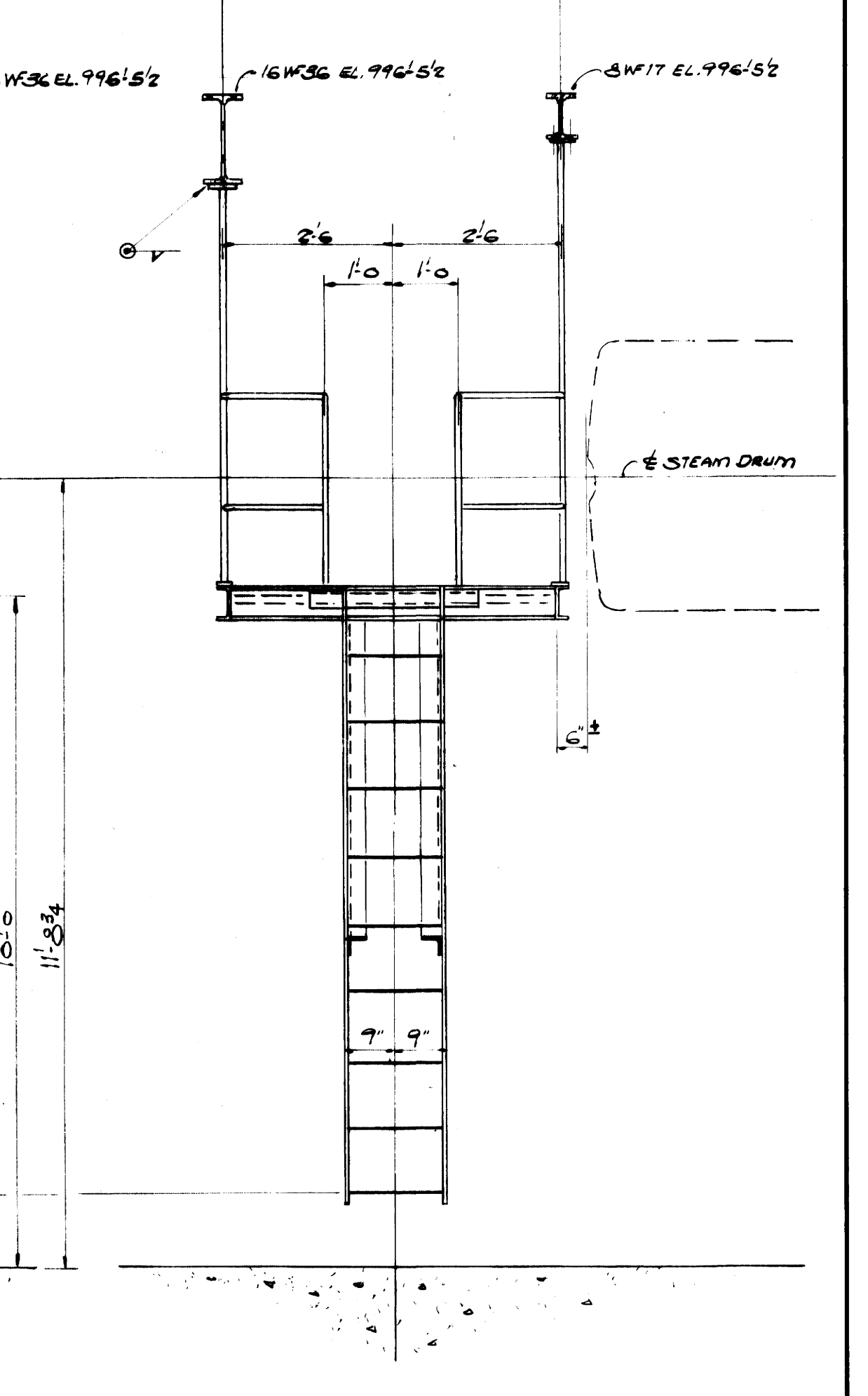
ELEVATION B  
SCALE: 1/4"=1'-0"



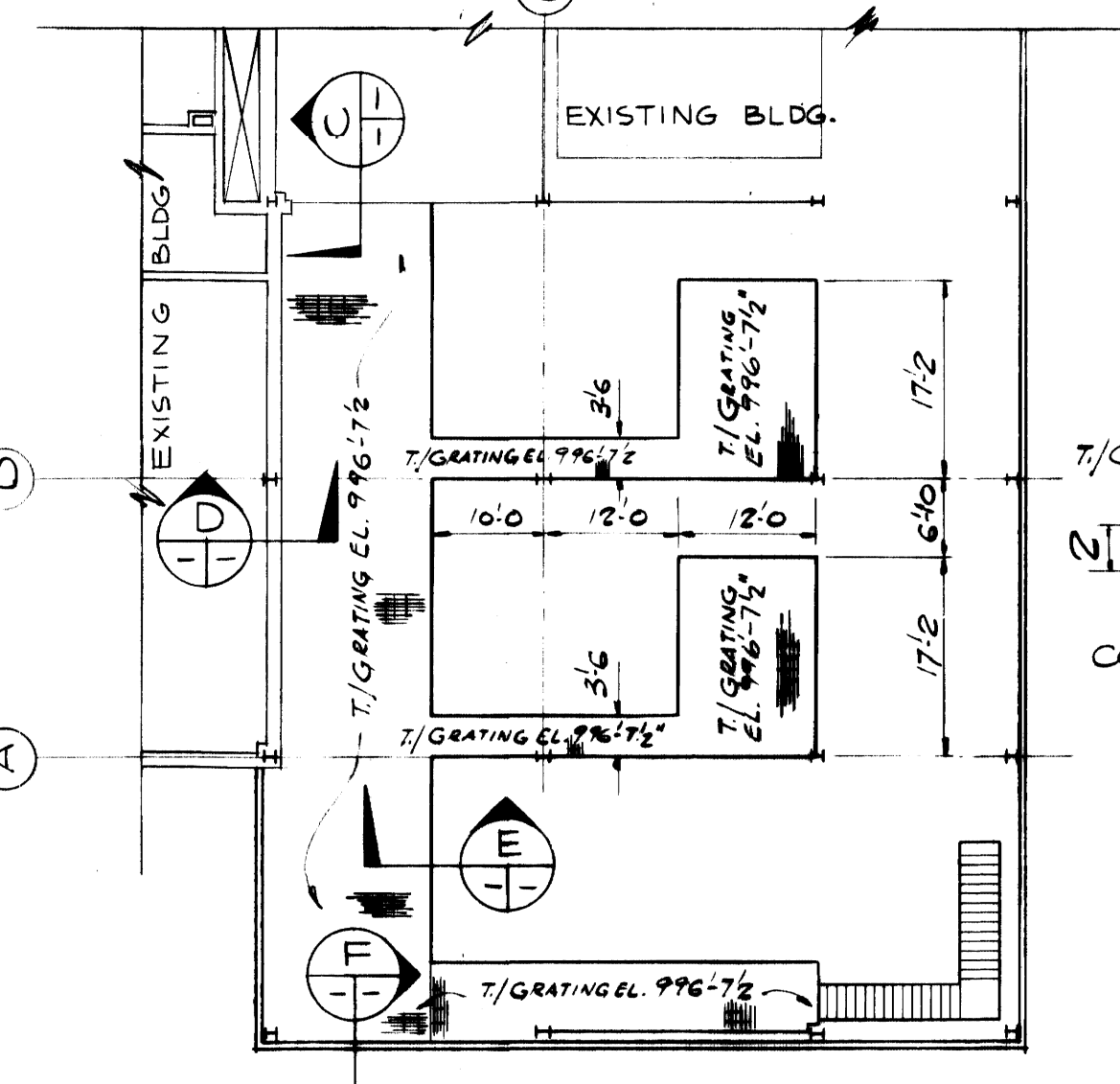
PLAN OF SERVICE PLATFORMS  
SCALE: 1/2"=1'-0"



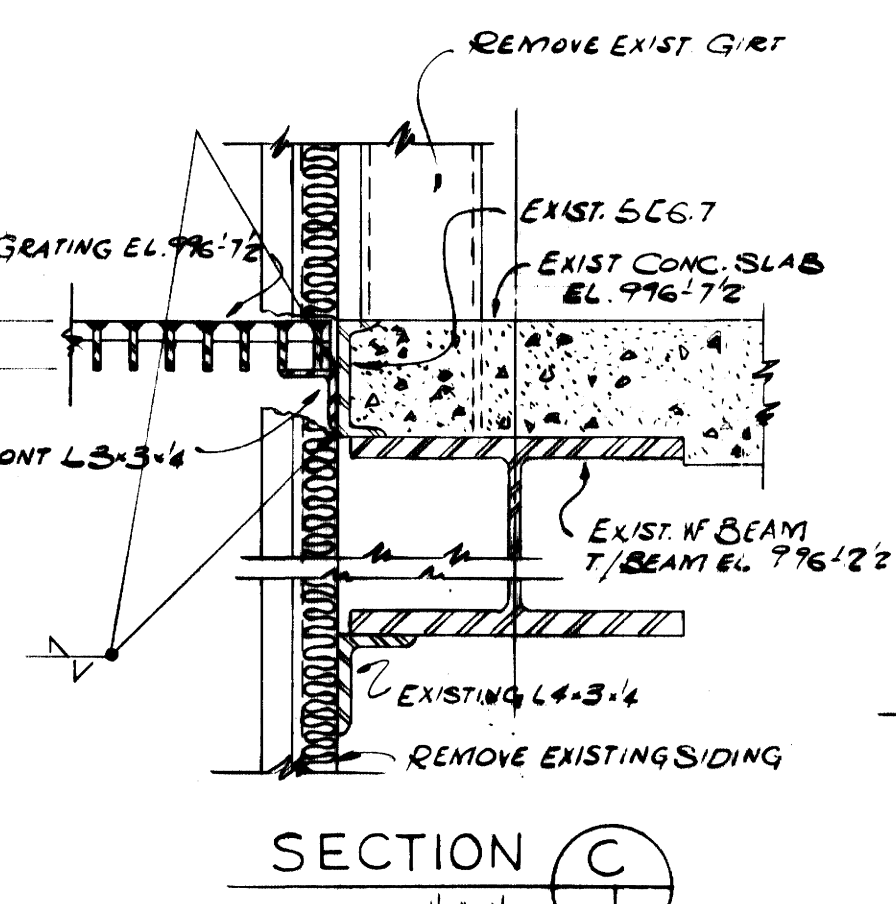
SECTION G  
SCALE: 1/2"=1'-0"



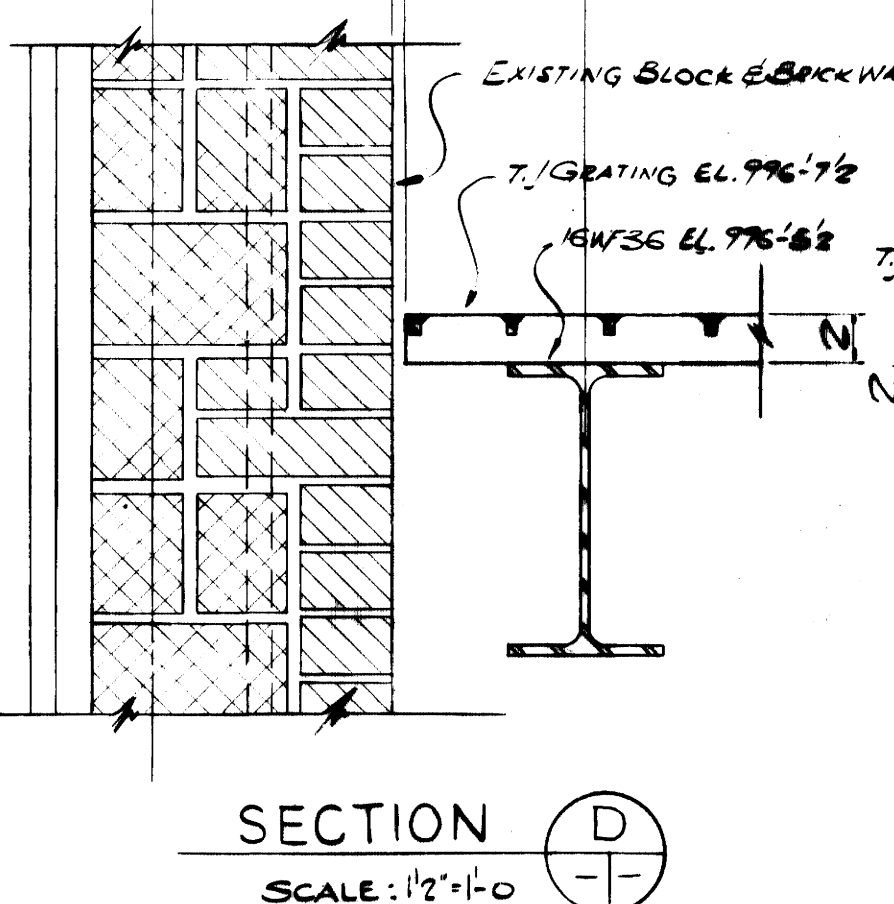
SECTION H  
SCALE: 1/2"=1'-0"



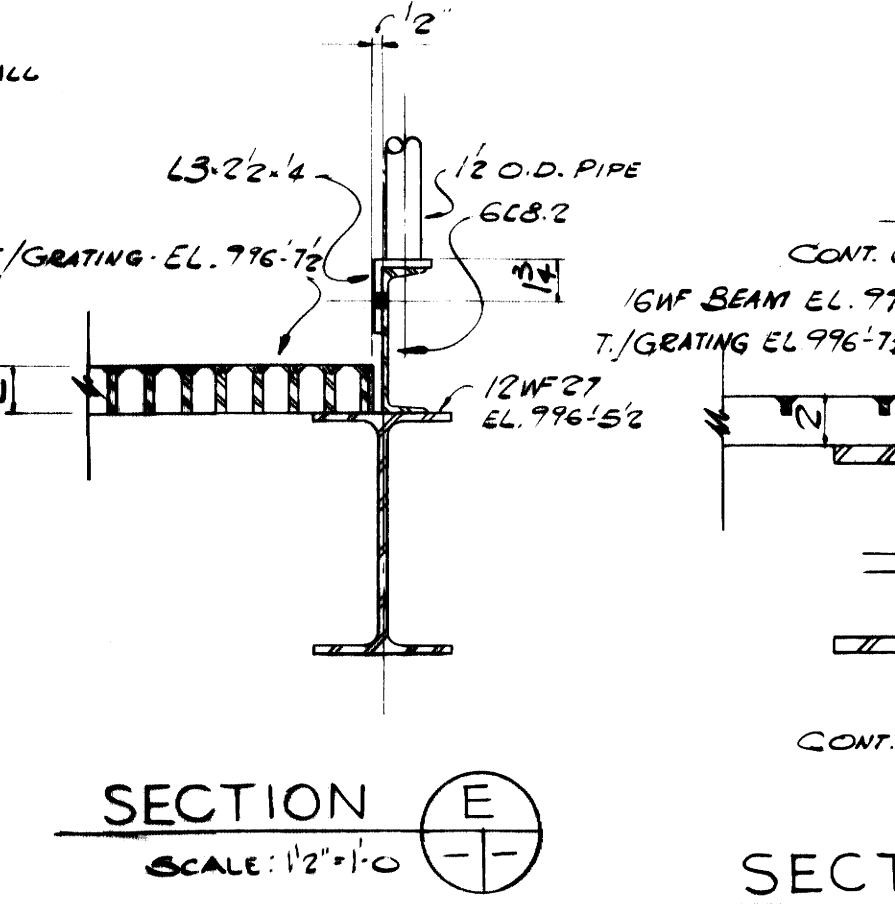
MEZZANINE FLOOR PLAN  
SCALE: 1/16"=1'-0"



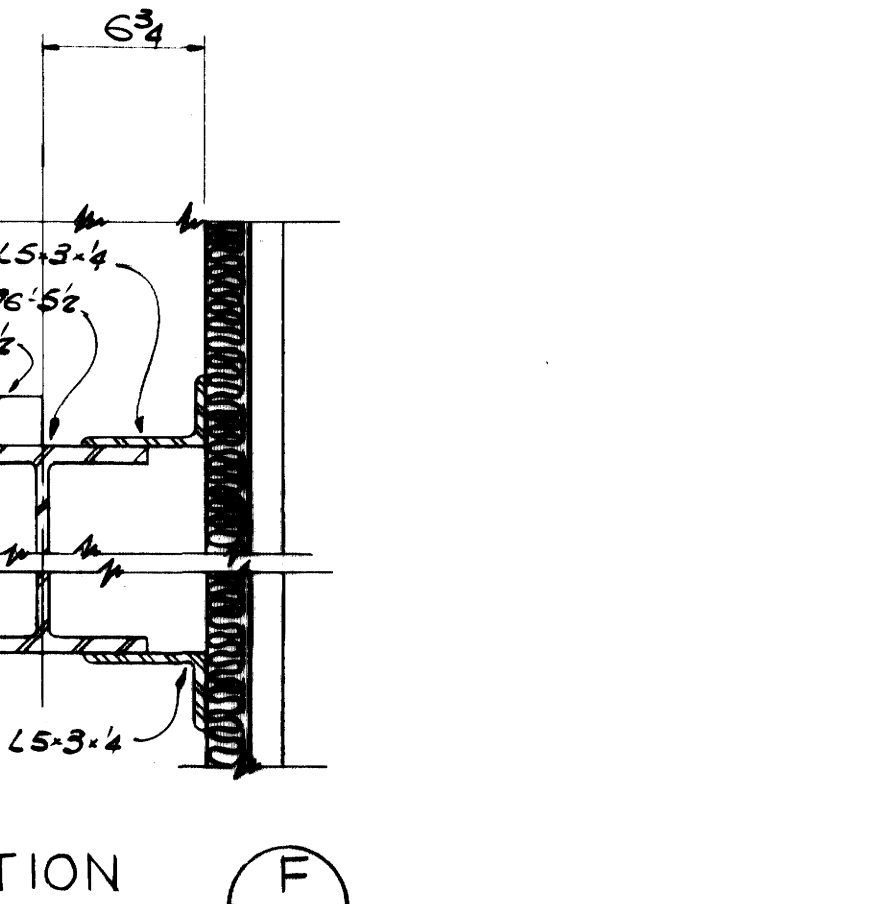
SECTION C  
SCALE: 1/2"=1'-0"



SECTION D  
SCALE: 1/2"=1'-0"



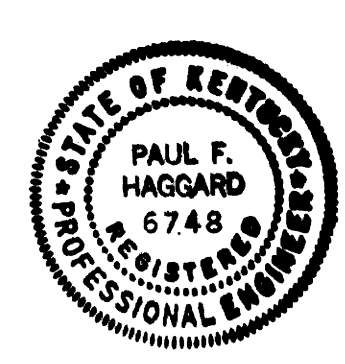
SECTION E  
SCALE: 1/2"=1'-0"

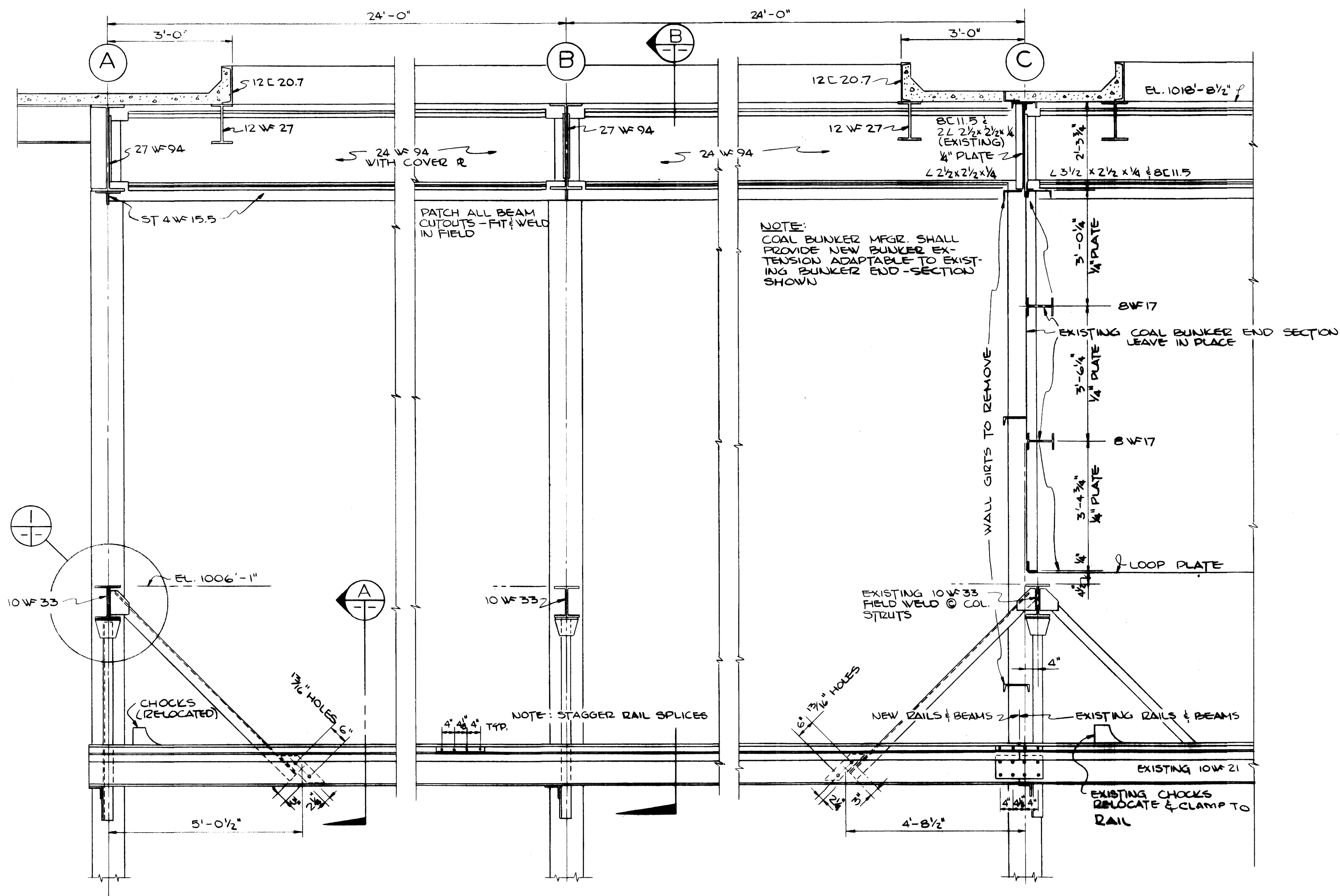


SECTION F  
SCALE: 1/2"=1'-0"

AS-BUILT DRAWING  
REVISIONS MADE DURING CONSTRUCTION  
HAVE BEEN INCLUDED ON THIS DRAWING  
MASON & HANGER - SILAS MASON CO., INC.  
BY GFS DATE 1-10-72  
NO REVISIONS

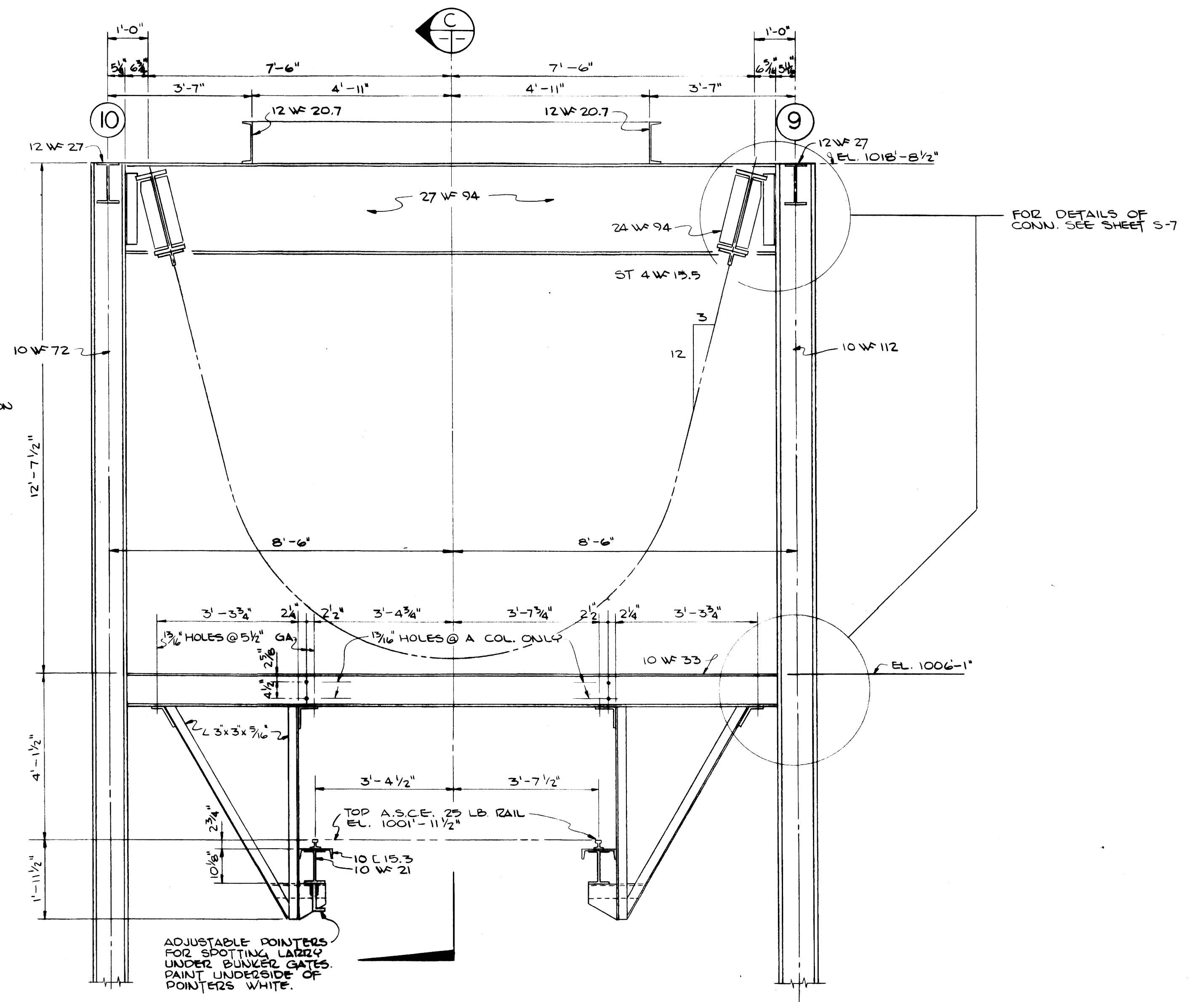
ADDITIONS & RENOVATIONS		
HEATING & COOLING PLANT - A. B. CHANDLER MEDICAL CENTER		
UNIVERSITY OF KENTUCKY LEXINGTON, KENTUCKY		
DRAWN BY J.S.M.	FLOOR GRATING, PLATFORM & DETAILS	DATE 5-28-70
TRACED BY	MASON & HANGER - SILAS MASON CO., INC.	SCALE AS NOTED
CHECKED BY P.F.H.	1500 W. MAIN ST. LEXINGTON, KENTUCKY	SPEC. NO.
COMMONWEALTH OF KENTUCKY		DRAWING NO.
DEPARTMENT OF FINANCE		S-14
DIVISION OF ENGINEERING		
FRANKFORT, KENTUCKY		
APPROVED BY <i>C.J. Marshall</i> AGENCY HEAD	DATE 5-30-70	
APPROVED BY <i>W.T. McConnel</i> DIRECTOR, DIVISION OF ENGINEERING	DATE 6-1-70	





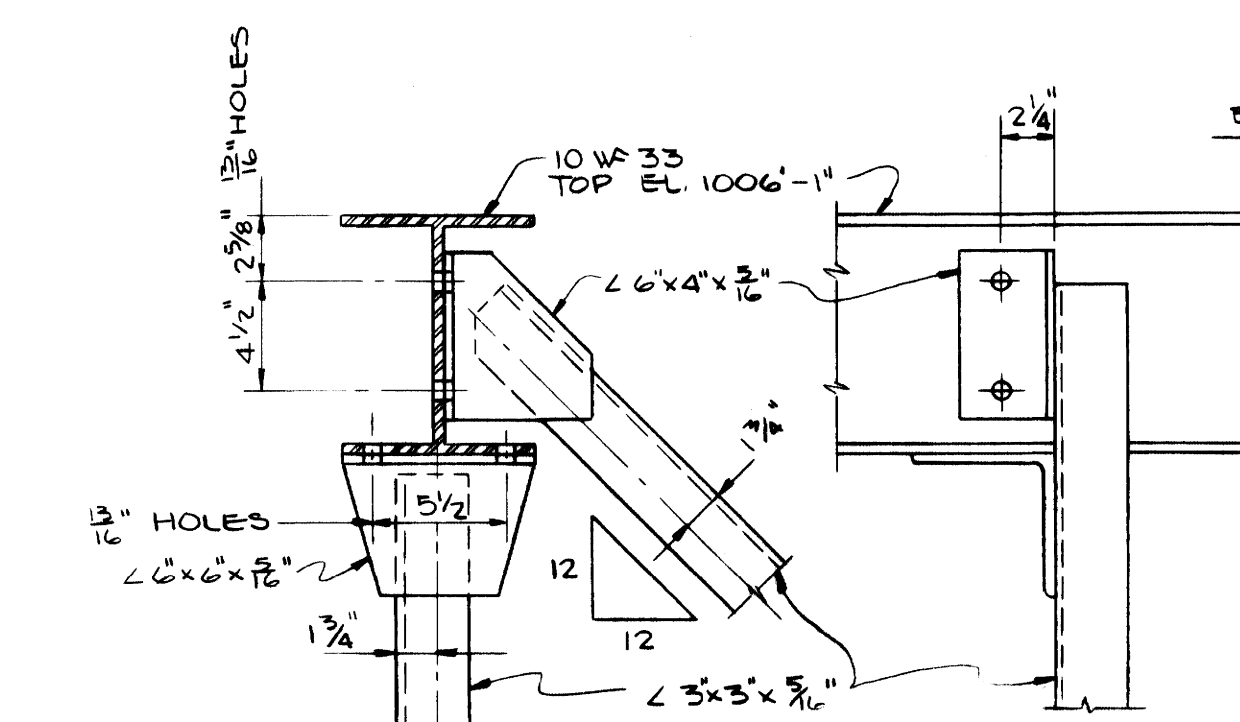
LONGITUDINAL SECTION THRU COAL BUNKER EXTENSION FRAMING

SCALE  $\frac{1}{2}'' = 1'-0''$



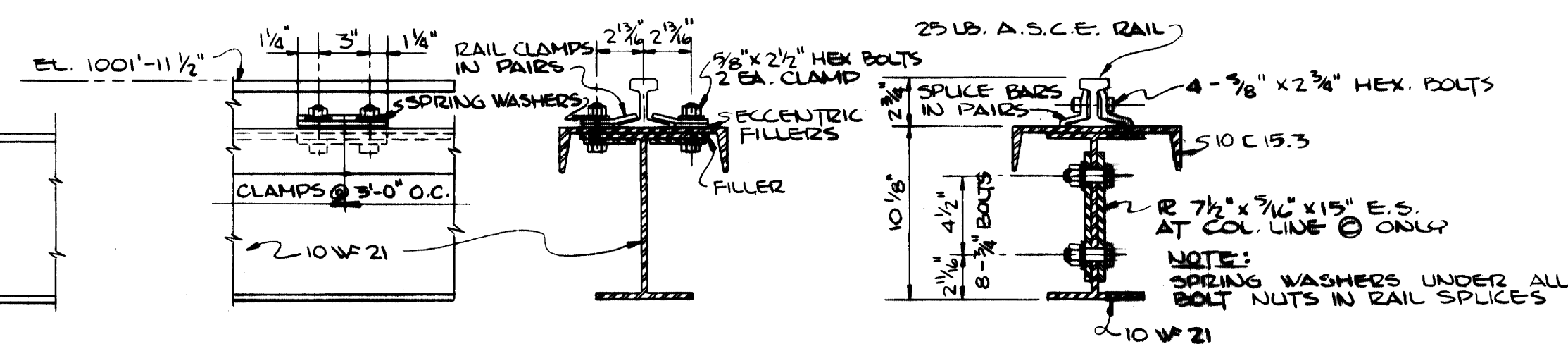
TRANSVERSE SECTION

SCALE  $\frac{1}{2}'' = 1'-0''$



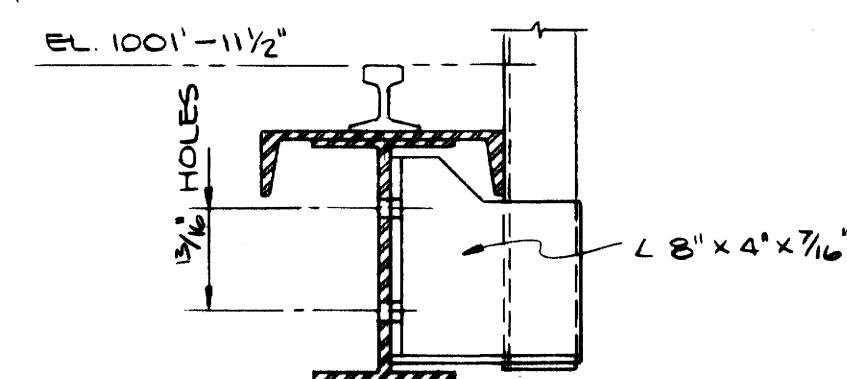
DETAIL

SCALE  $\frac{1}{2}'' = 1'-0''$



RAIL SPLICE & FASTENING DETAILS

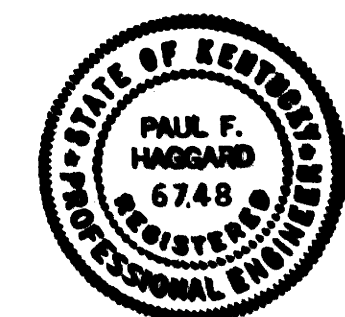
SCALE  $\frac{1}{2}'' = 1'-0''$



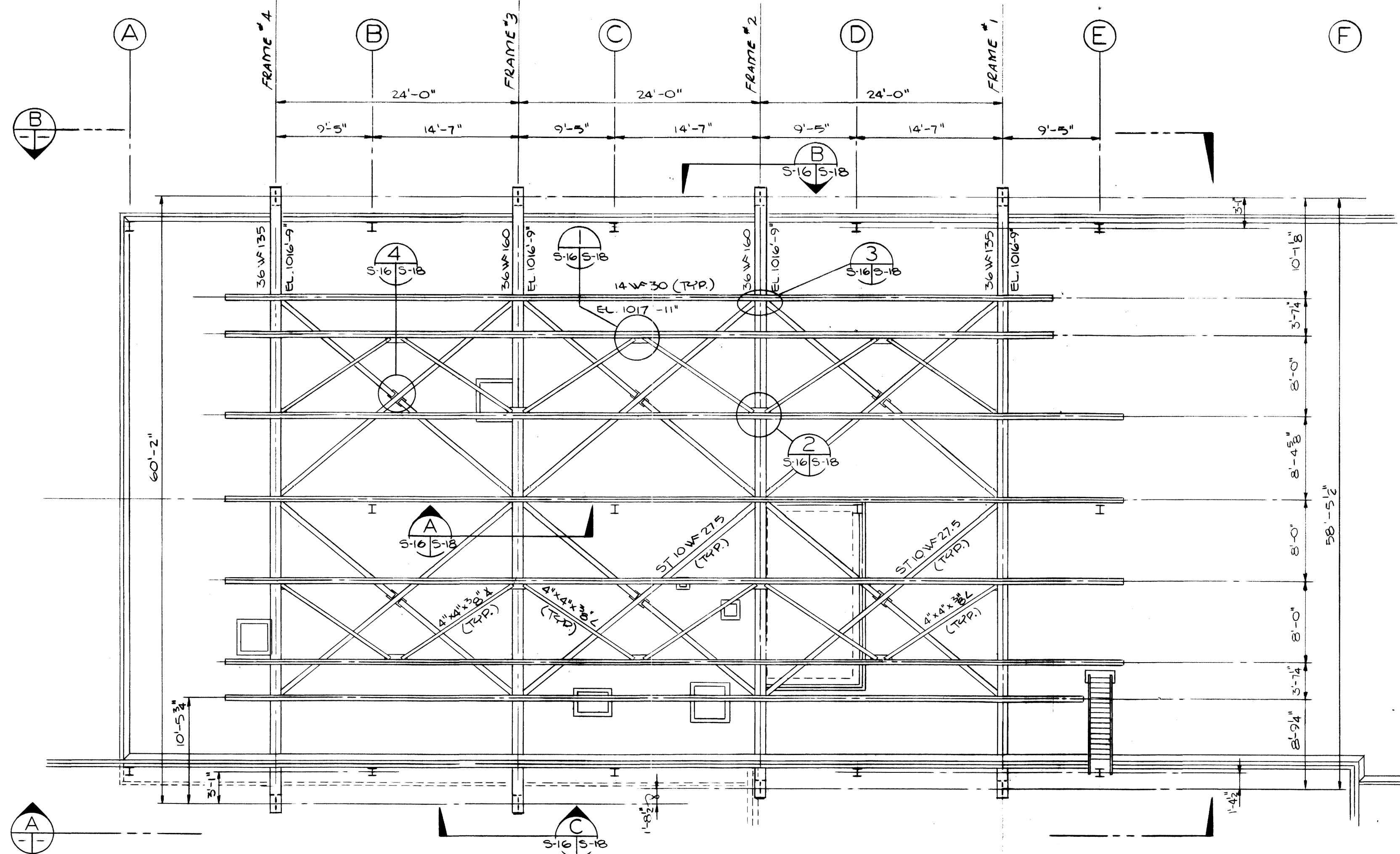
SECTION

SCALE  $\frac{1}{2}'' = 1'-0''$

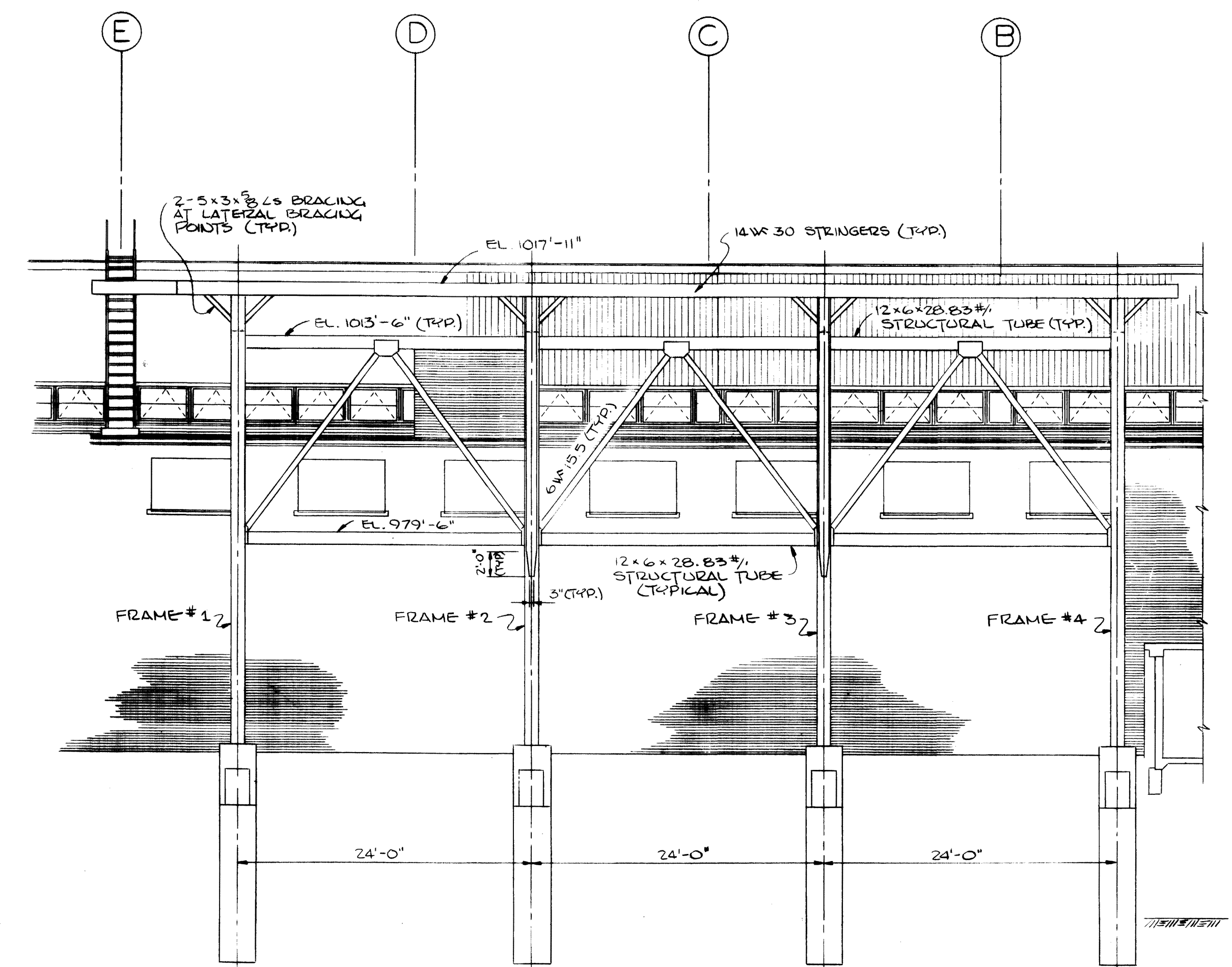
AS-BUILT DRAWING  
 REVISIONS MADE DURING CONSTRUCTION  
 HAVE BEEN INCLUDED ON THIS DRAWING  
 MASON & HANGER - SILAS MASON CO., INC.  
 BY GFS DATE 1-10-72  
 NO REVISIONS



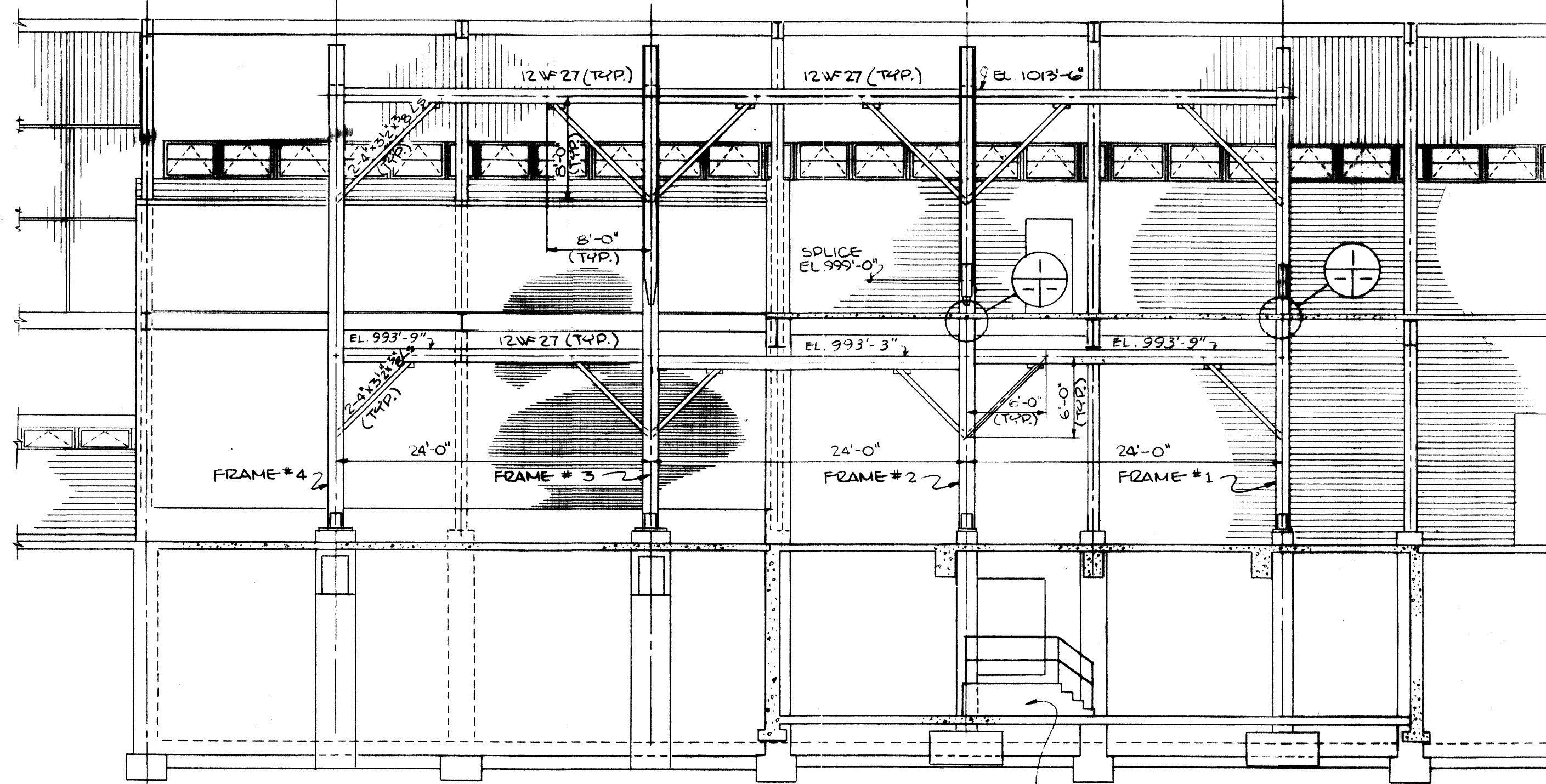
ADDITIONS & RENOVATIONS		
HEATING & COOLING PLANT - A. B. CHANDLER MEDICAL CENTER		
UNIVERSITY OF KENTUCKY LEXINGTON, KENTUCKY		
DRAWN BY	COAL BUNKER SUPPORT & LARRY RAIL DETAILS	DATE 5-28-70
TRACED BY	MASON & HANGER-SILAS MASON CO., INC.	SCALE AS NOTED
CHECKED BY	1500 W. MAIN ST. LEXINGTON, KENTUCKY	SPEC. NO.
COMMONWEALTH OF KENTUCKY		DRAWING NO.
DEPARTMENT OF FINANCE		S-15
DIVISION OF ENGINEERING		
FRANKFORT KENTUCKY		
APPROVED BY	<i>Paul F. Haggard</i>	DATE 5-28-70
APPROVED BY	<i>W. J. McCombs</i>	DATE 6-1-70
DIRECTOR, DIVISION OF ENGINEERING		



FRAMING PLAN - COOLING TOWER  
SCALE  $\frac{1}{8}'' = 1'-0''$

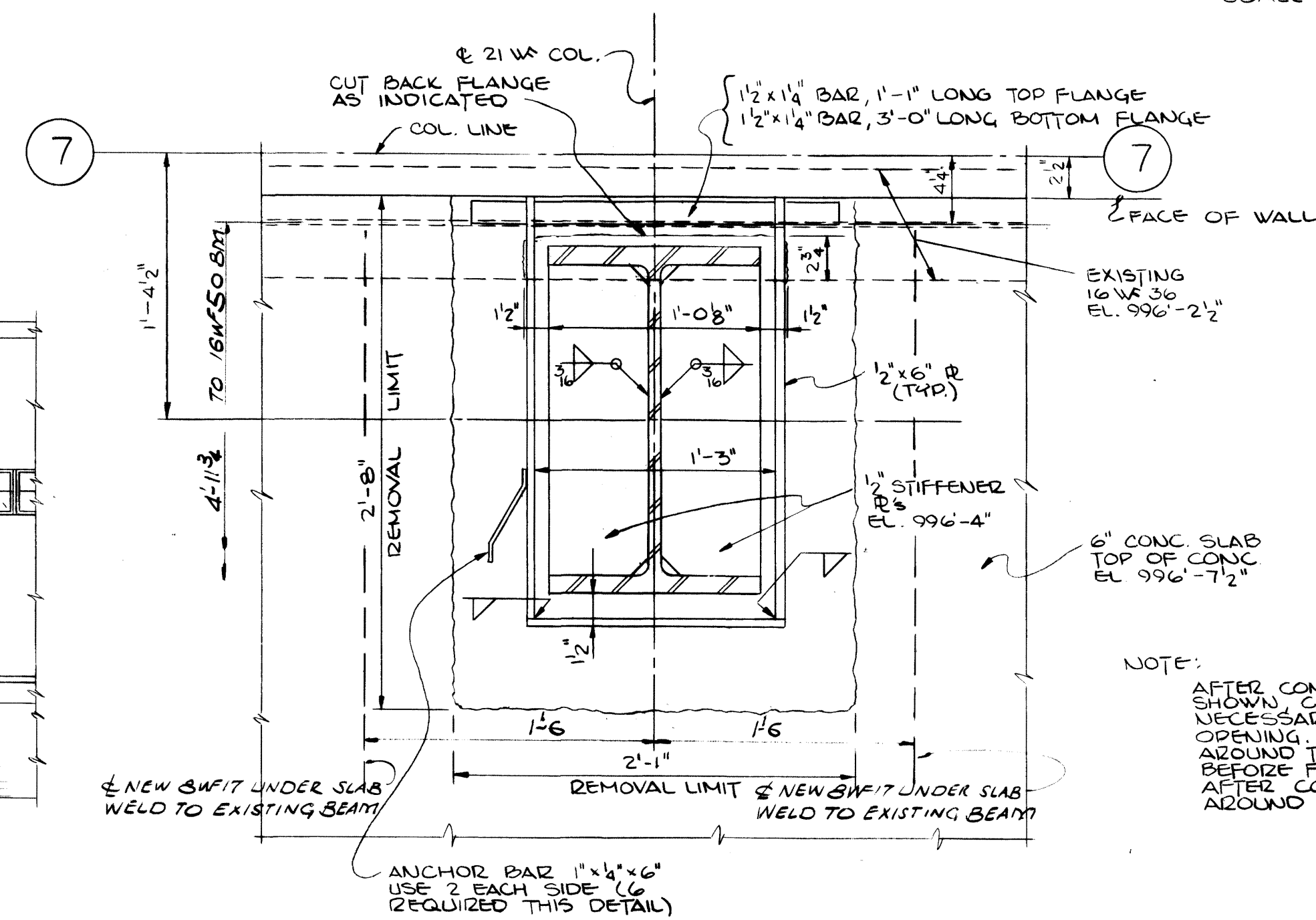


ELEVATION (B)  
SCALE  $\frac{1}{8}'' = 1'-0''$



ELEVATION (A)  
SCALE  $\frac{1}{8}'' = 1'-0''$

EXISTING:  
6" WALL & 4" SLAB & 2-1/2" DIPS HANDRAIL REMOVE AS REQUIRED AND REPLACE AFTER COLUMN IS CONST. WHERE POSSIBLE.

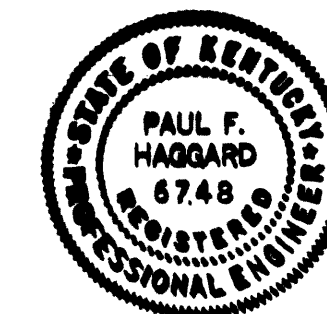


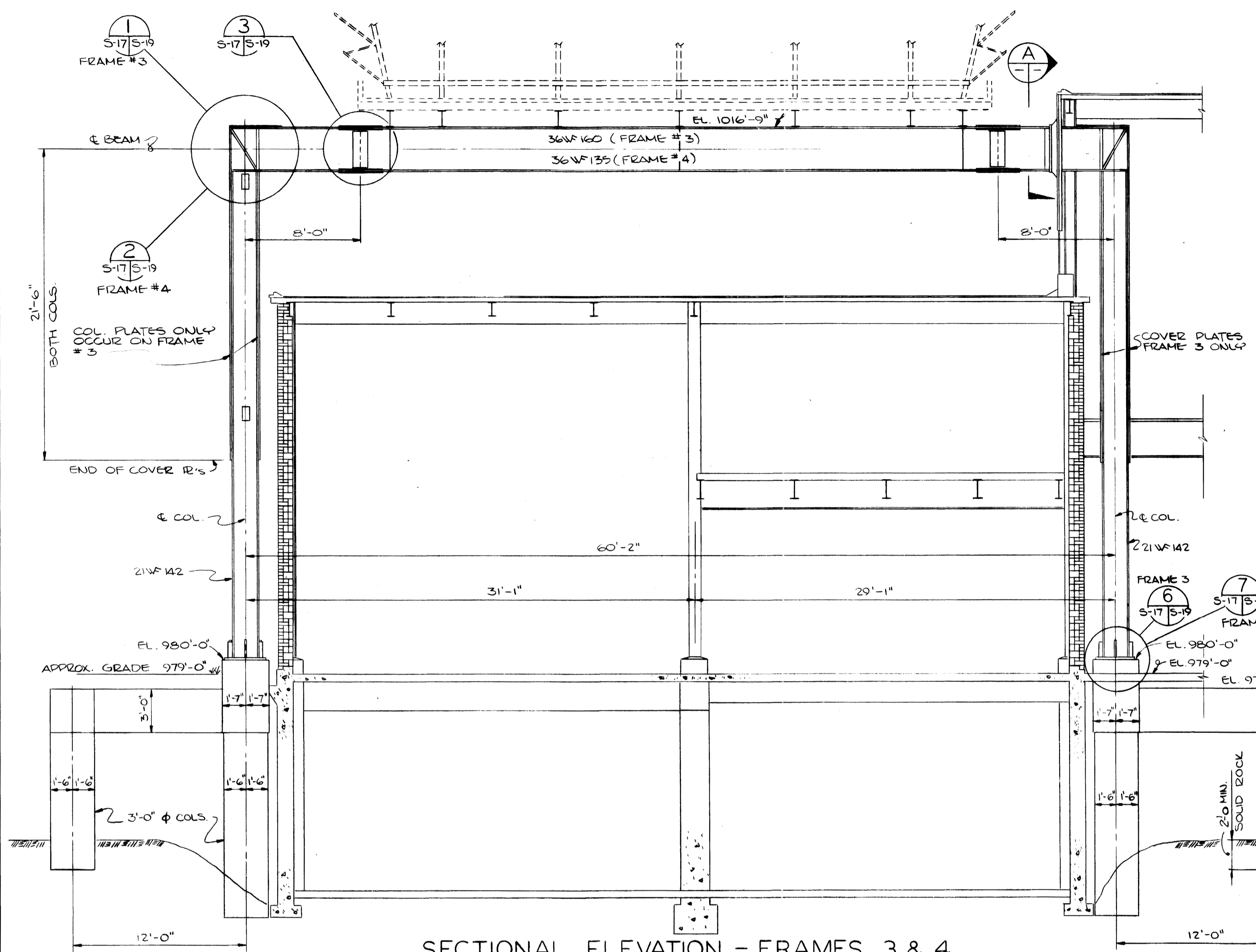
DETAIL (7)  
SCALE  $\frac{1}{2}'' = 1'-0''$

AS-BUILT DRAWING  
REVISIONS MADE DURING CONSTRUCTION  
HAVE BEEN INCLUDED ON THIS DRAWING  
MASON & HANGER - SILAS MASON CO., INC.  
BY GFS DATE 1-10-72  
CORRECTED FRAME NUMBERS  
REVISED CENTER BEAM TO 9.93'-3"

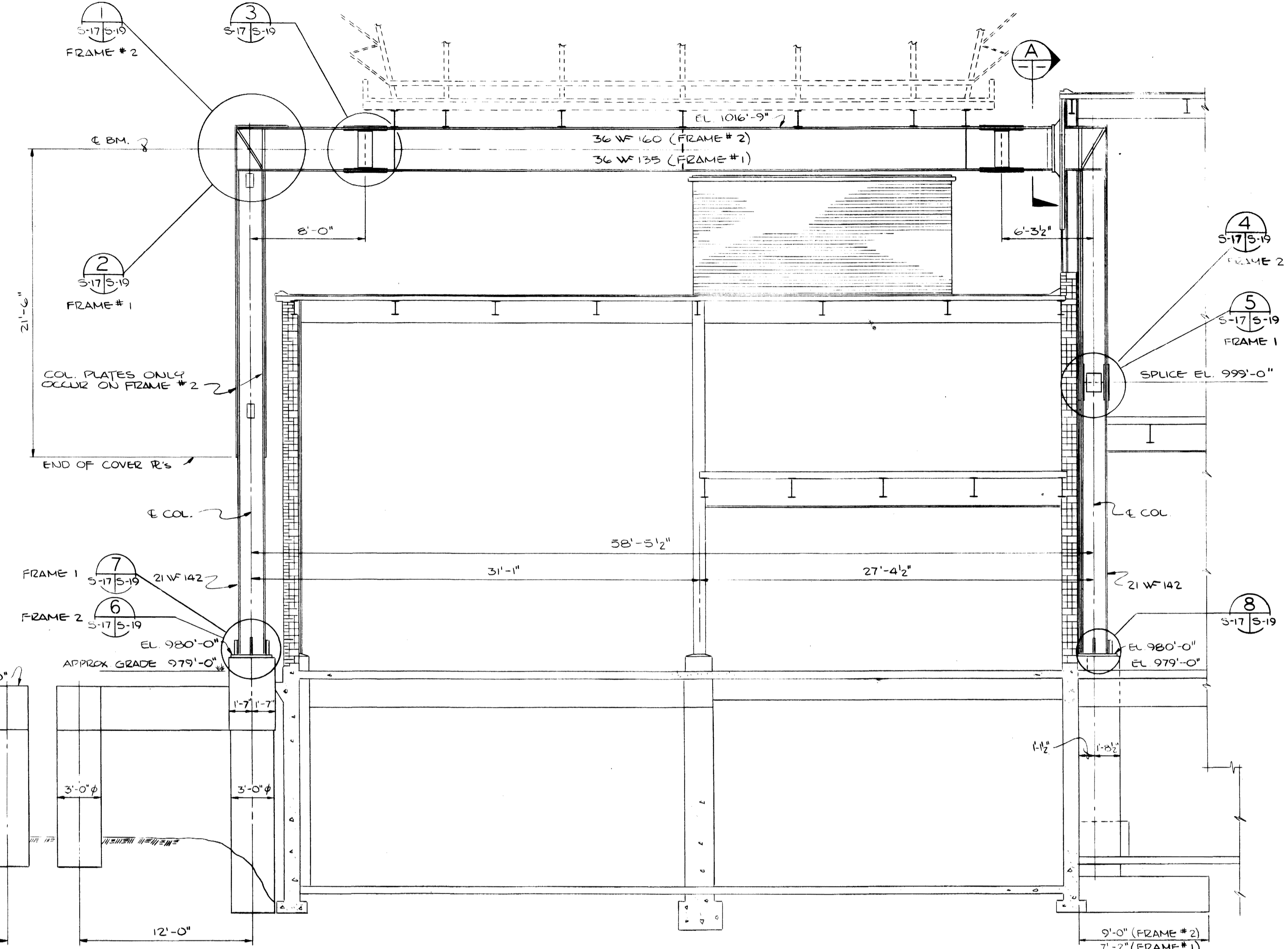
NOTE:  
AFTER CONCRETE IS REMOVED AS SHOWN CUT REINFORCEMENT WHERE NECESSARY AND BEND AROUND OPENING. WELD 1 1/2" x 1/4" BARS ALL AROUND TO TOP AND BOTTOM FLANGES BEFORE FLANGES ARE CUT BACK. AFTER COLUMN IS IN PLACE CONCRETE AROUND OPENING.

ADDITIONS & RENOVATIONS			
HEATING & COOLING PLANT - A. B. CHANDLER MEDICAL CENTER UNIVERSITY OF KENTUCKY LEXINGTON, KENTUCKY			
DRAWN BY J.B.W.	PLAN & ELEVATION-COOLING TOWER	DATE 5-28-70	SCALE AS SHOWN
TRACED BY	MASON & HANGER-SILAS MASON CO., INC. 1500 W. MAIN ST. LEXINGTON, KENTUCKY	SPEC. NO.	
CHECKED BY P.F.H.		DRAWING NO. S-16	
COMMONWEALTH OF KENTUCKY DEPARTMENT OF FINANCE DIVISION OF ENGINEERING FRANKFORT KENTUCKY			
APPROVED BY <i>[Signature]</i> AGENCY HEAD		DATE 5-28-70	
APPROVED BY <i>[Signature]</i> DIRECTOR, DIVISION OF ENGINEERING		DATE 6-1-70	

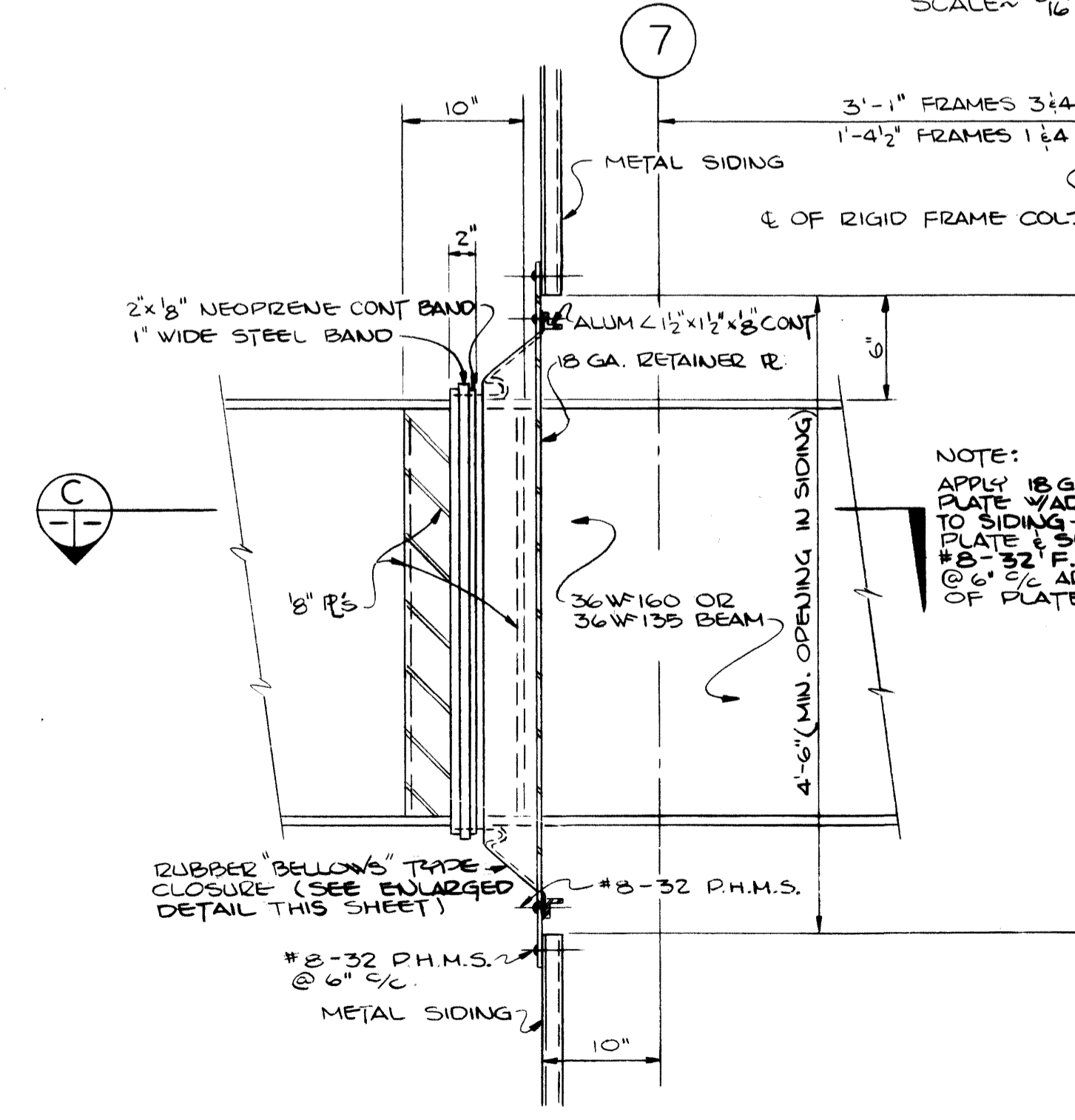




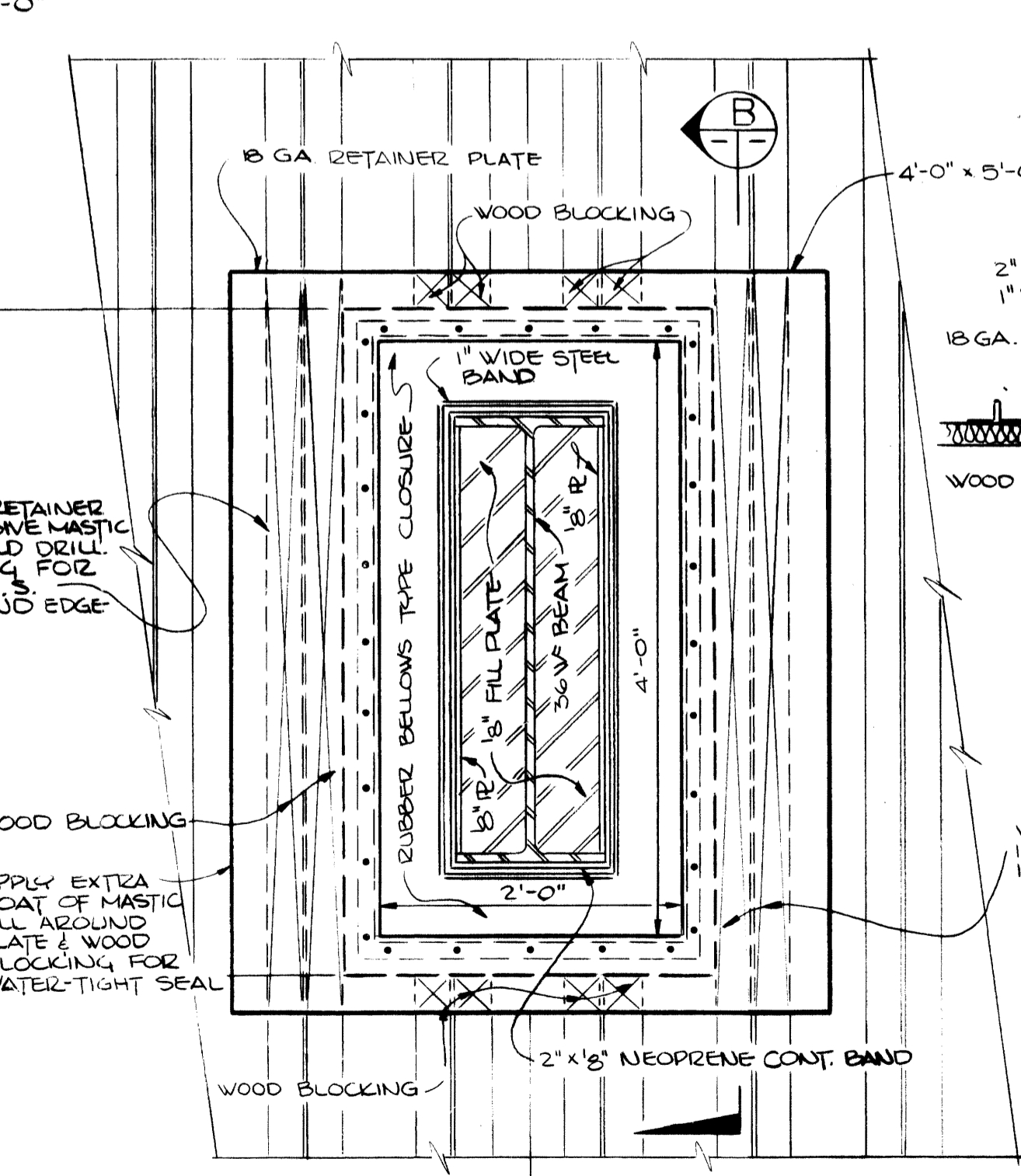
SECTIONAL ELEVATION - FRAMES 3 & 4  
SCALE ~ 3/16" = 1'-0"



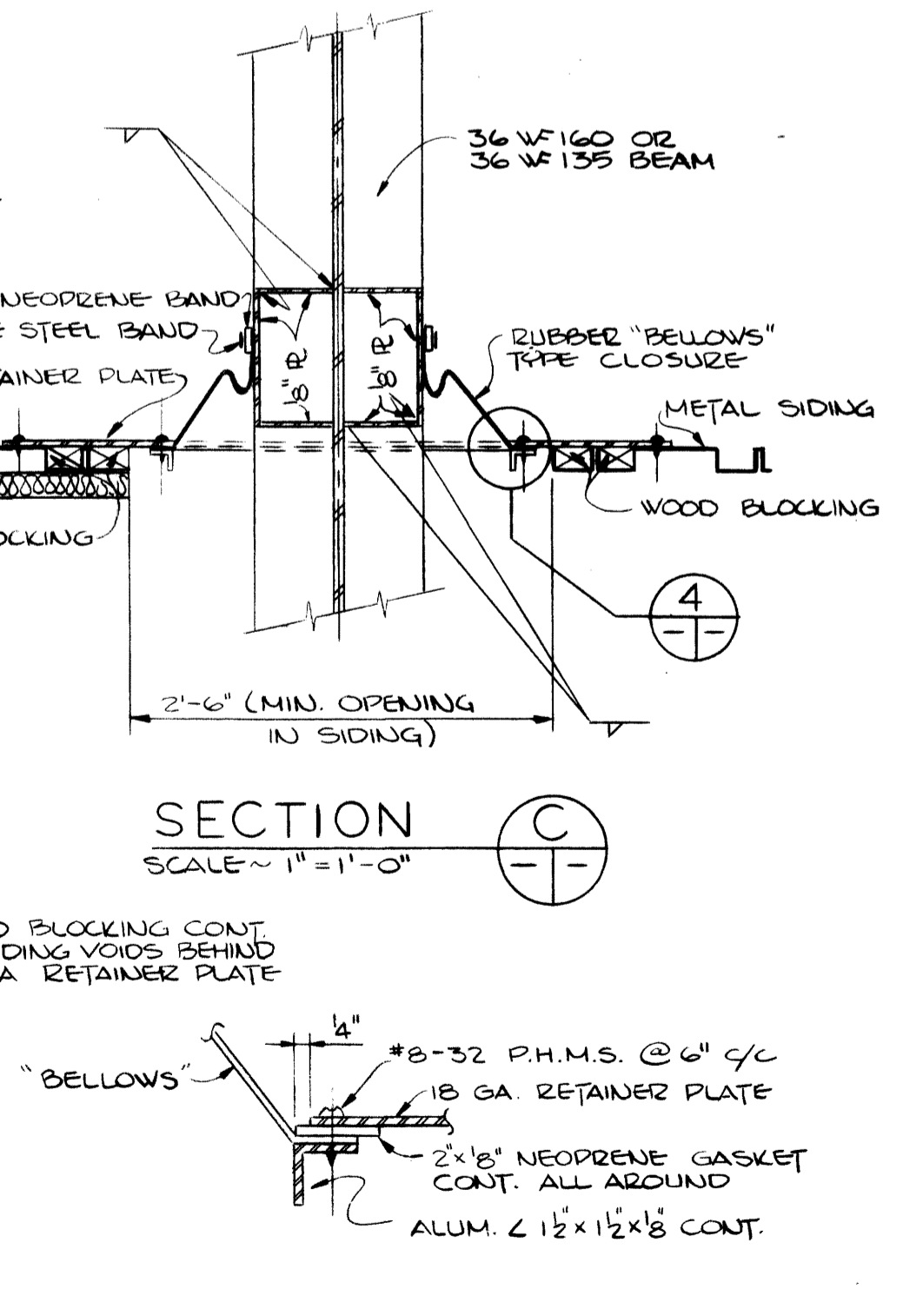
SECTIONAL ELEVATION - FRAMES 1 & 2  
SCALE ~ 3/16" = 1'-0"



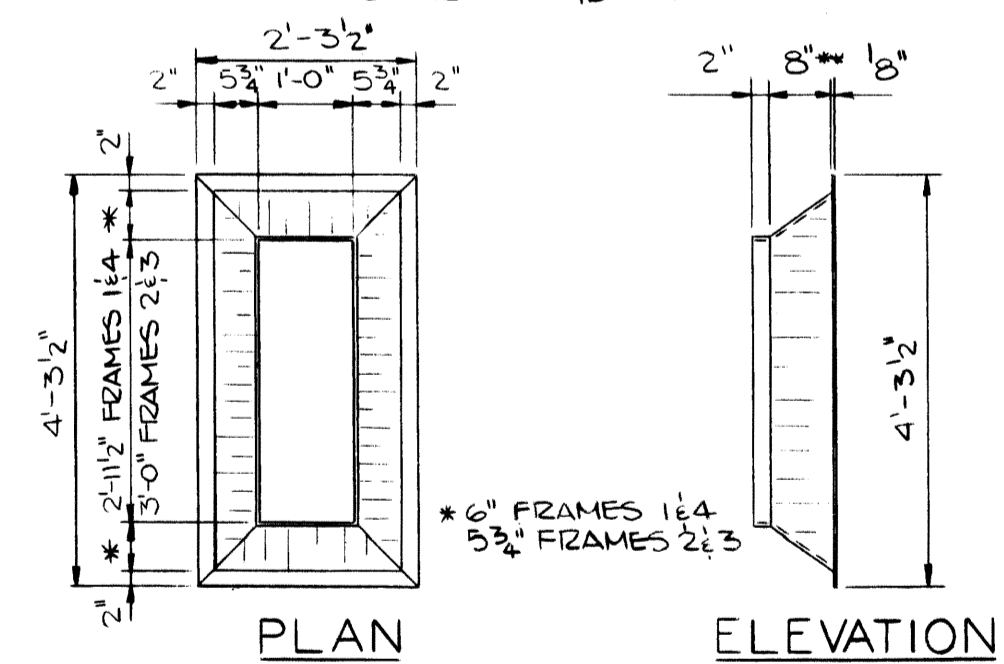
SECTION B  
SCALE ~ 1" = 1'-0"



SECTION A  
SCALE ~ 1" = 1'-0"



DETAIL 4  
SCALE ~ 3/4" = 1'-0"

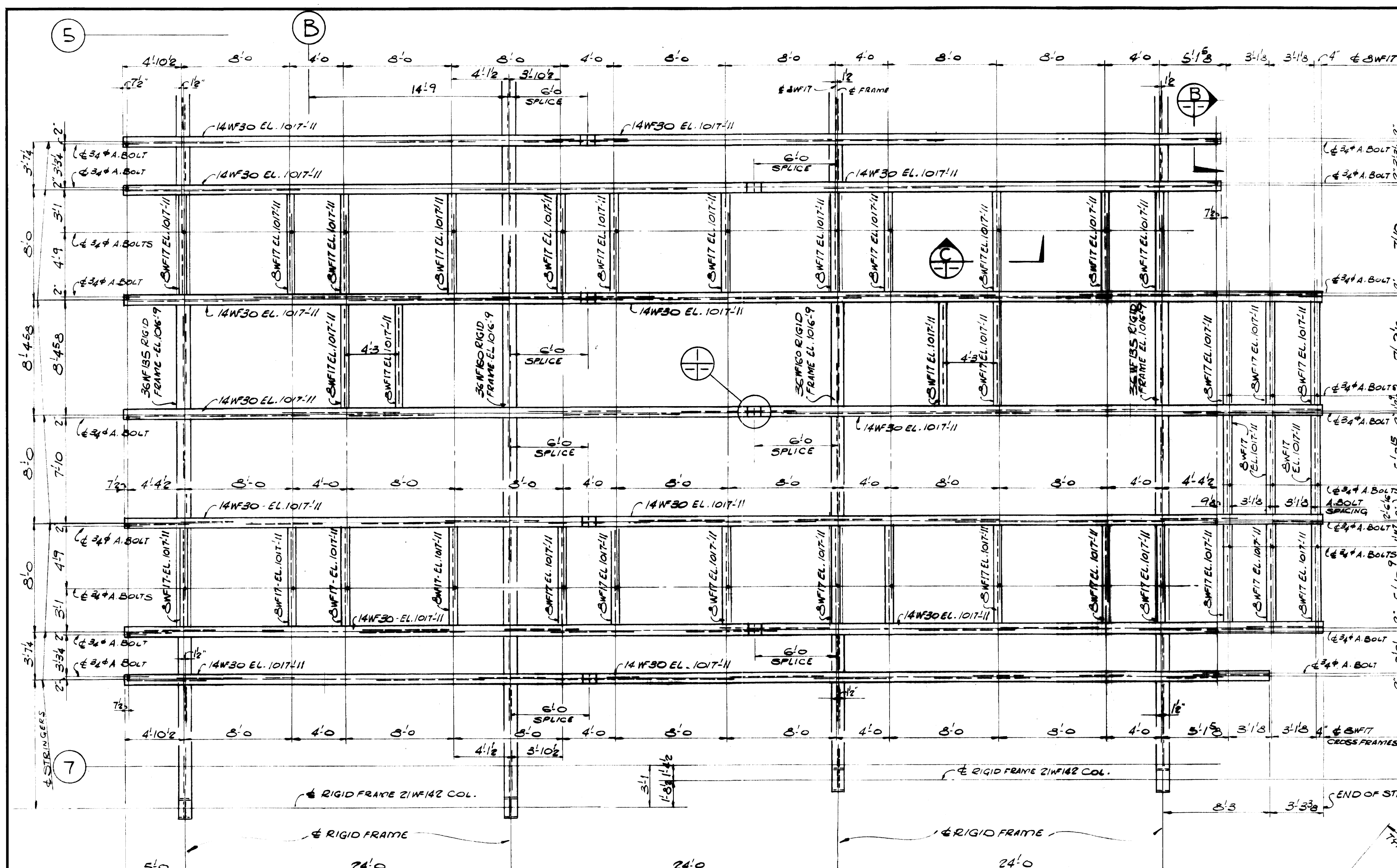


BELLOWS DETAIL  
SCALE ~ 1/2" = 1'-0"

AS-BUILT DRAWING  
REVISIONS MADE DURING CONSTRUCTION  
HAVE BEEN INCLUDED ON THIS DRAWING  
MASON & HANGER - SILAS MASON CO., INC.  
BY GFS DATE 1-10-72  
NO REVISIONS

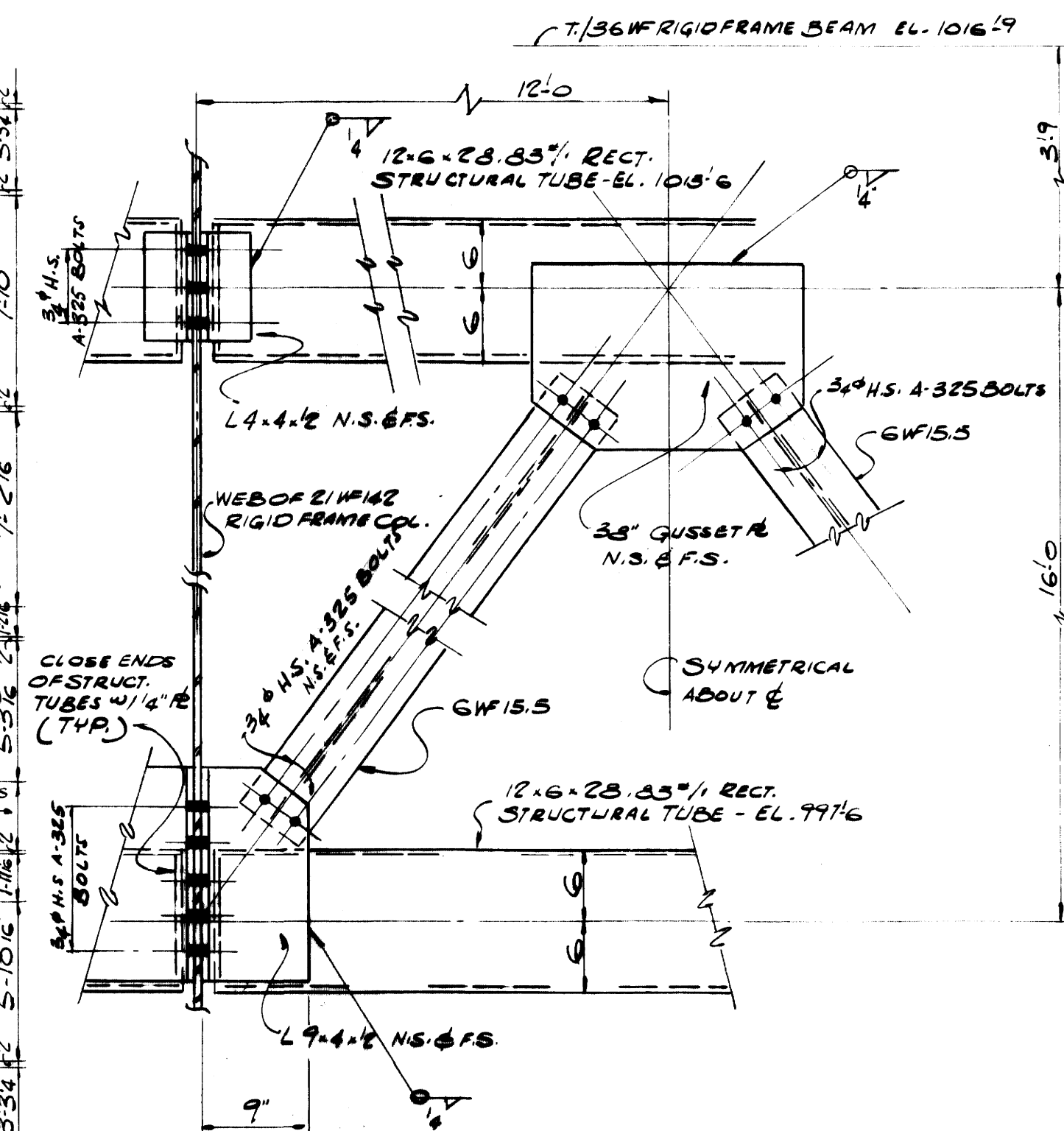


ADDITIONS & RENOVATIONS HEATING & COOLING PLANT - A. B. CHANDLER MEDICAL CENTER UNIVERSITY OF KENTUCKY LEXINGTON, KENTUCKY		
DRAWN BY J.B.W.	FRAME ELEVATIONS & DETAILS - COOLING TOWER	DATE 5-28-70
TRACED BY	MASON & HANGER - SILAS MASON CO., INC. 1500 W. MAIN ST. LEXINGTON, KENTUCKY	SCALE AS SHOWN
CHECKED BY P.F.H.	COMMONWEALTH OF KENTUCKY DIVISION OF ENGINEERING FRANKFORT, KENTUCKY	SPEC. NO. S-17
APPROVED BY <i>C.J. Marshall</i>	AGENCY HEAD	DATE 5-28-70
APPROVED BY <i>W.L. McCombs</i>	DIRECTOR, DIVISION OF ENGINEERING	DATE 6-1-70

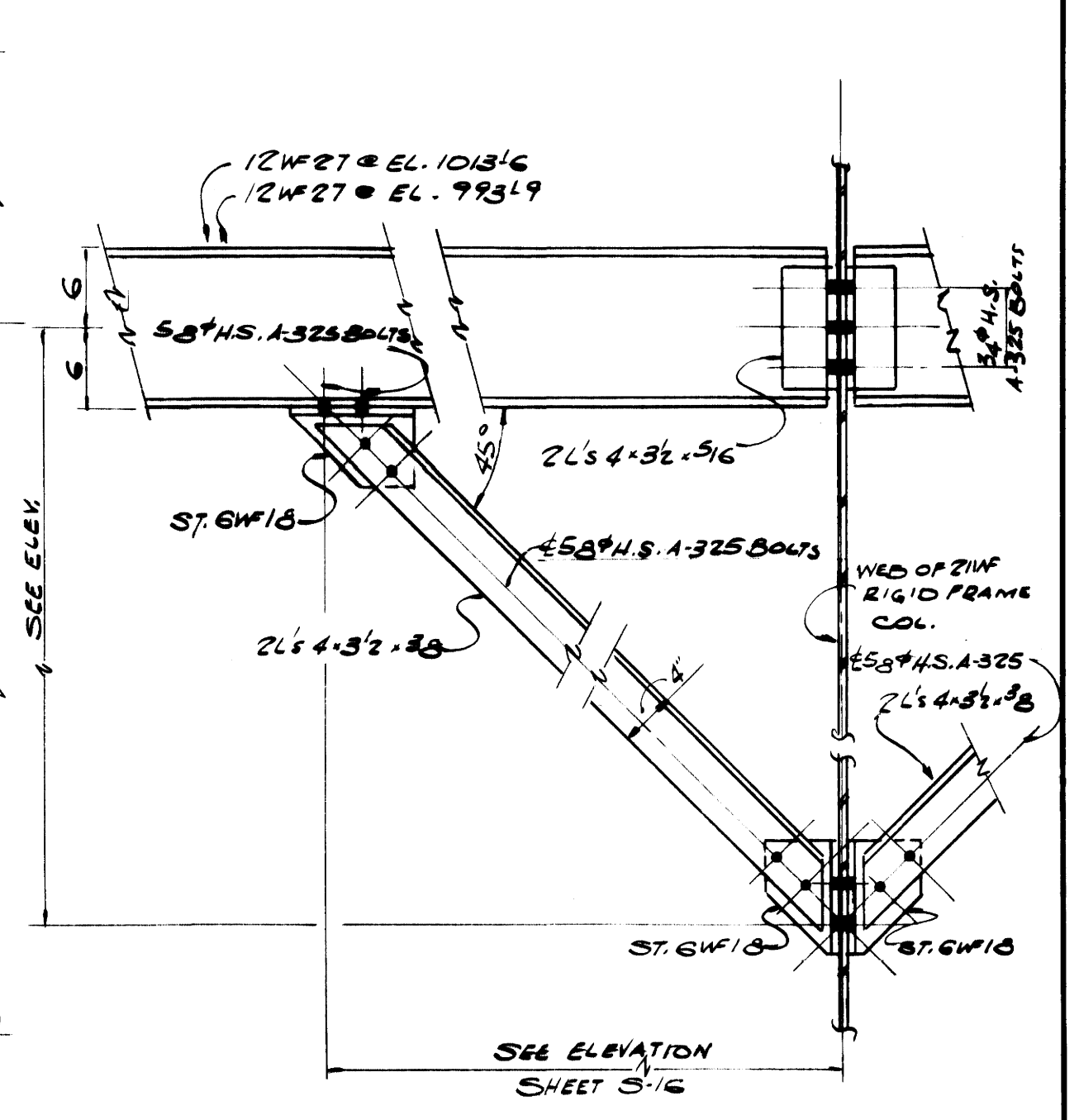


NOTE: ELEVATIONS SHOWN ON PLAN WITH STEEL SIZES ARE TOP OF STEEL ELEV.

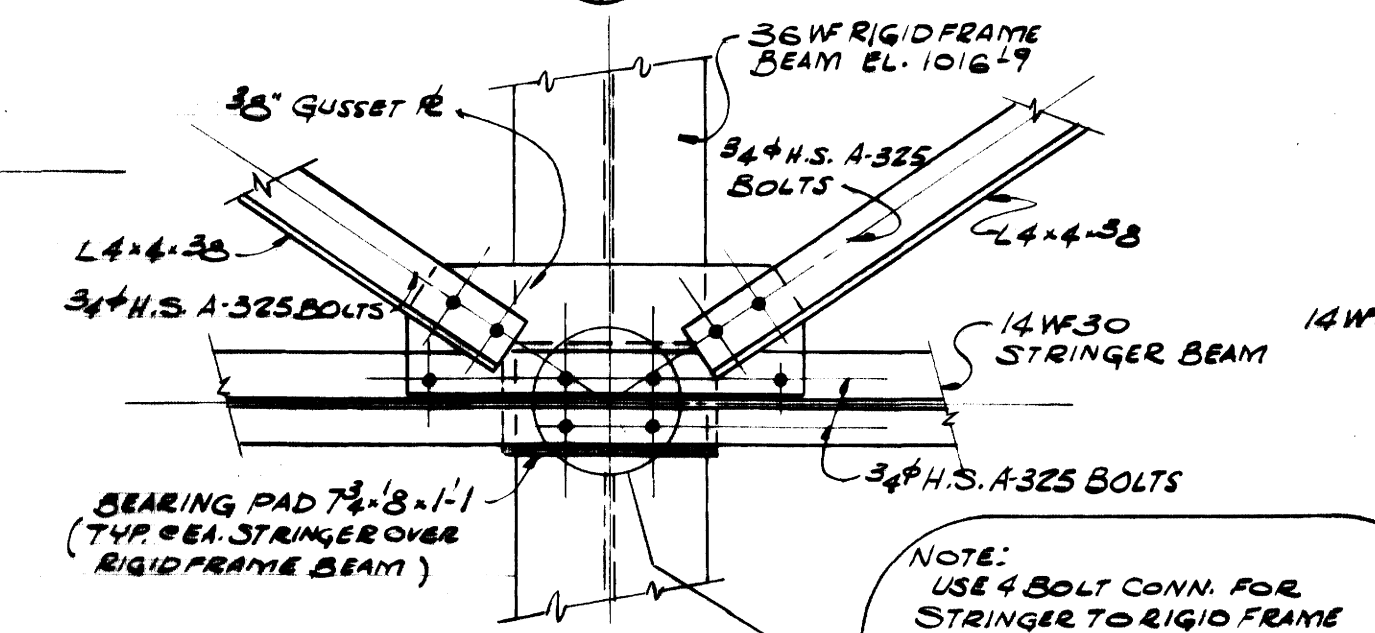
STRINGER PLAN - COOLING TOWER  
SCALE: 3/8" = 1'-0"



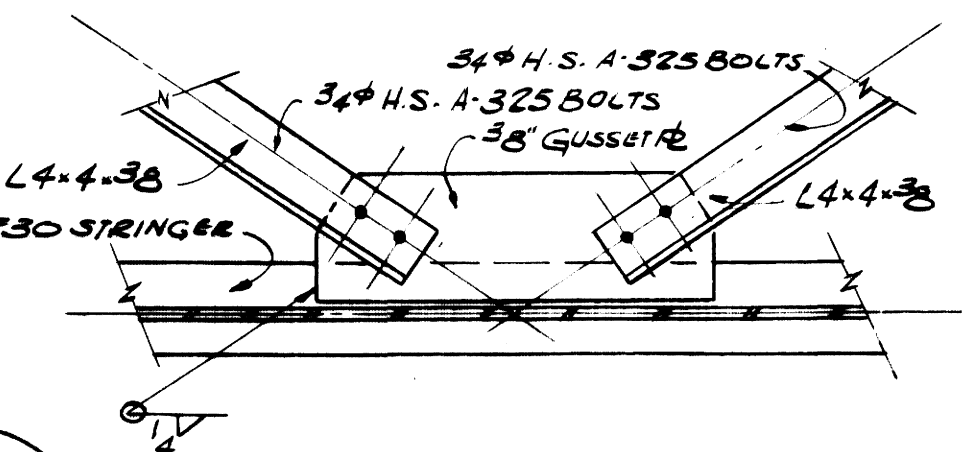
BRACING ELEV. (B)  
SCALE: 1/4" = 1'-0"



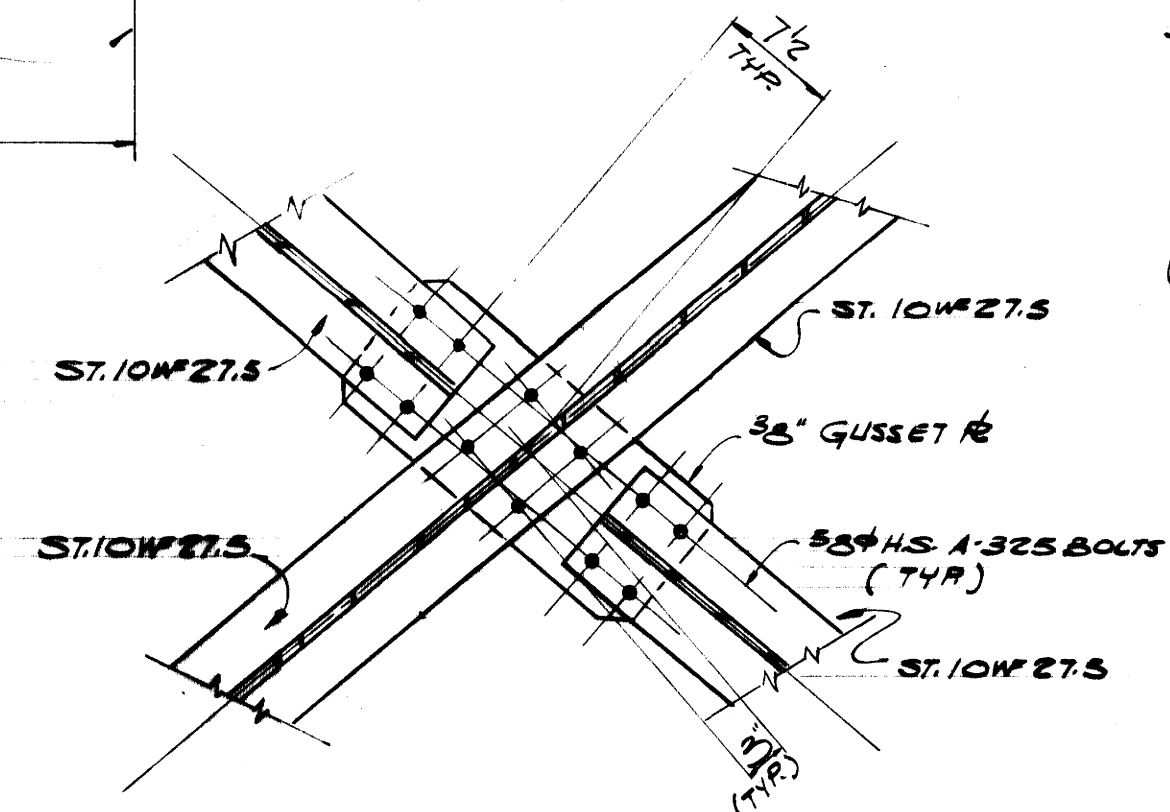
BRACING ELEV. (C)  
SCALE: 1/4" = 1'-0"



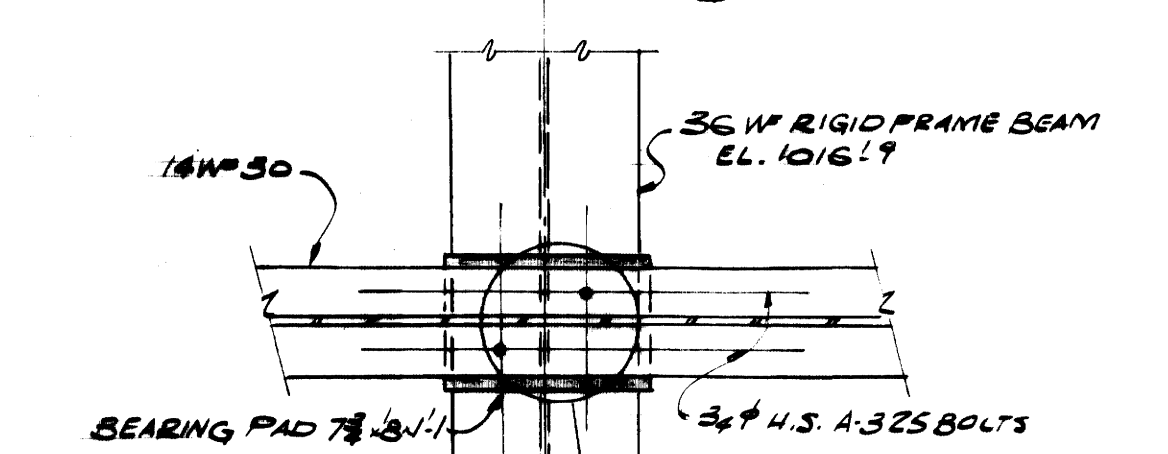
DETAIL (1)  
SCALE: 1/4" = 1'-0"



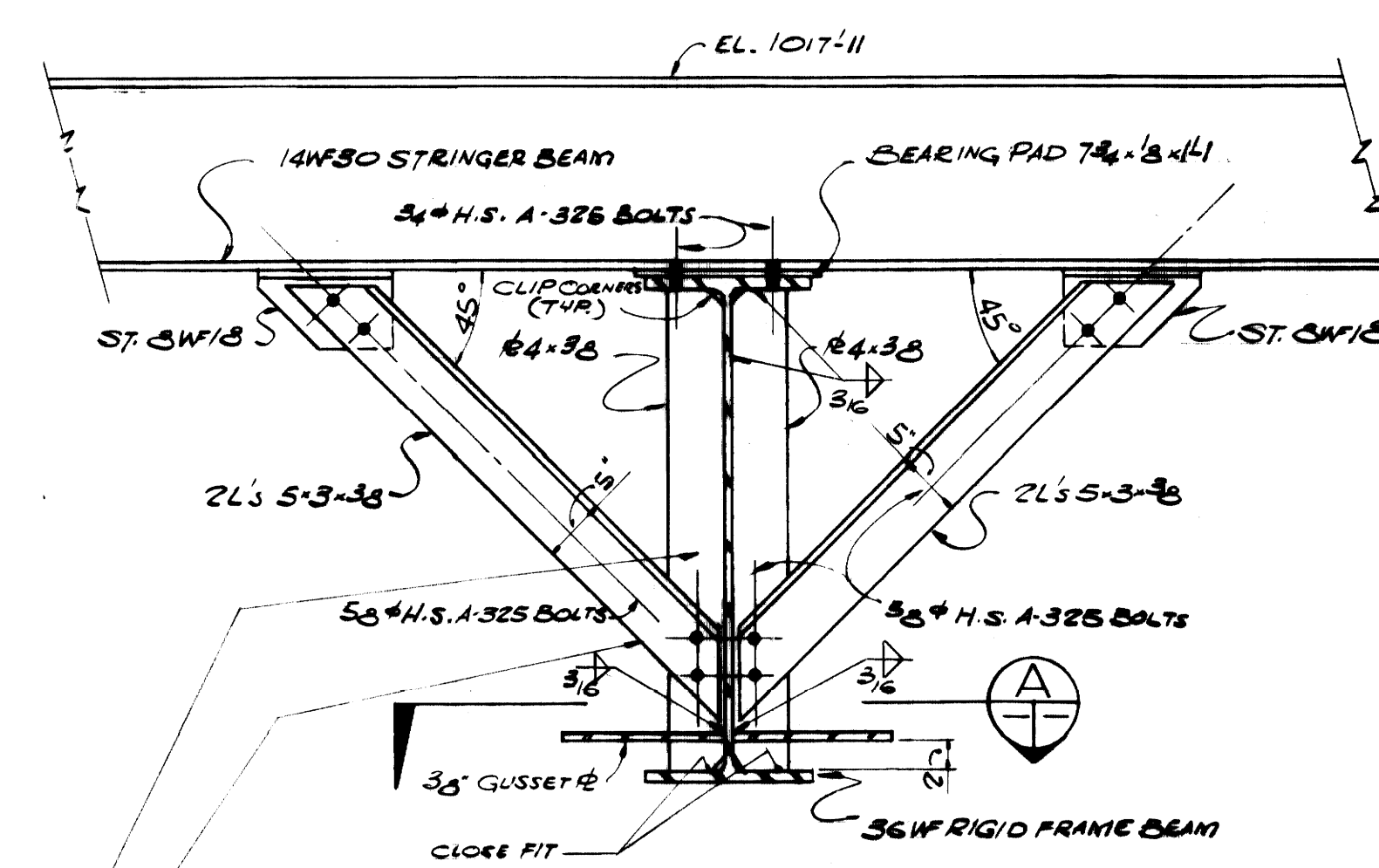
DETAIL (2)  
SCALE: 1/4" = 1'-0"



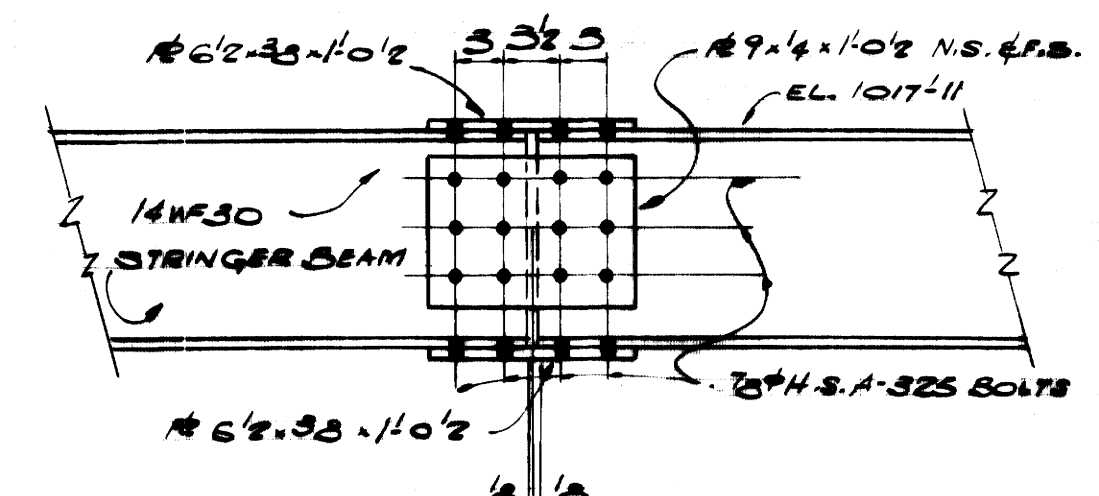
DETAIL (3)  
SCALE: 1/4" = 1'-0"



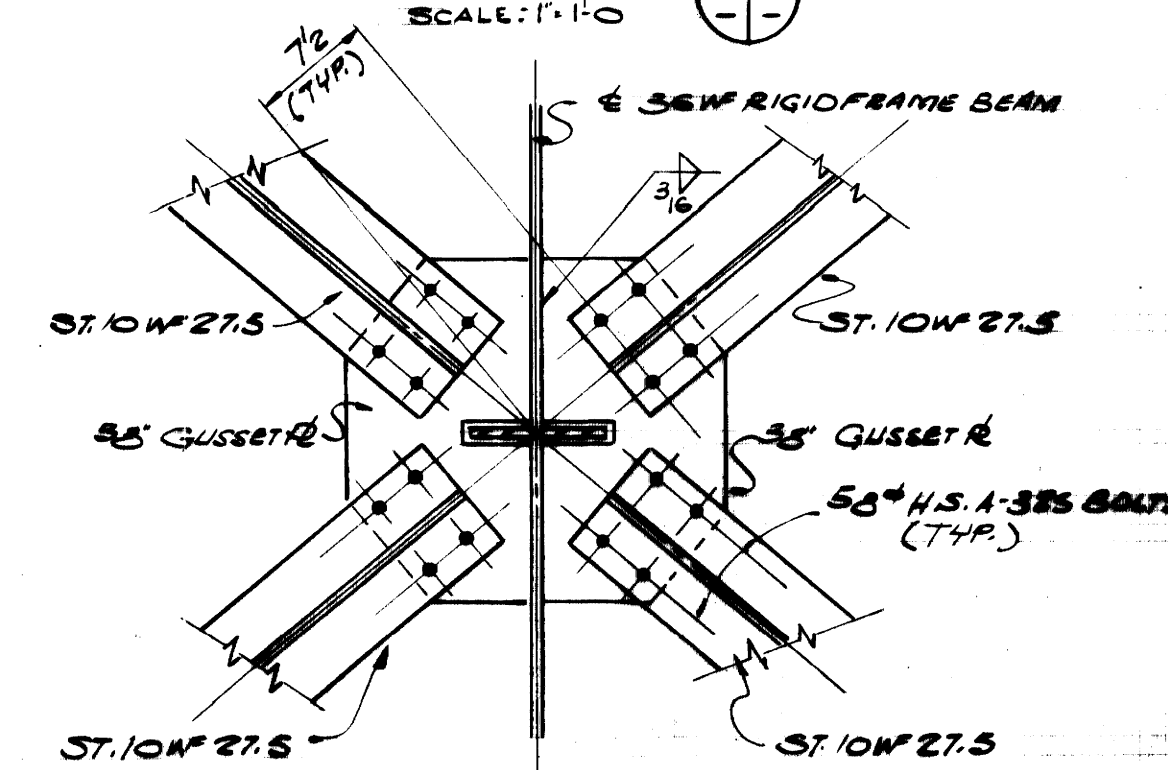
DETAIL (4)  
SCALE: 1/4" = 1'-0"



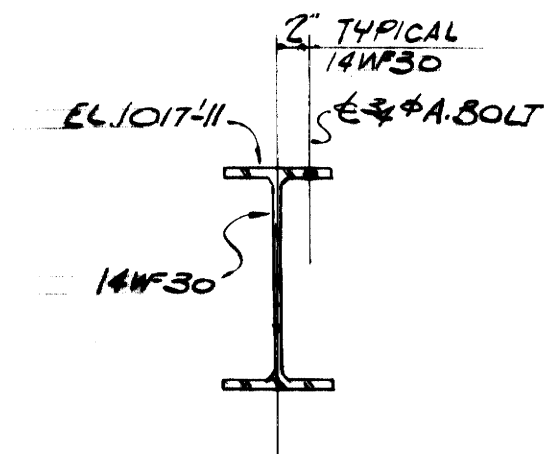
SECTION (A)  
SCALE: 1/4" = 1'-0"



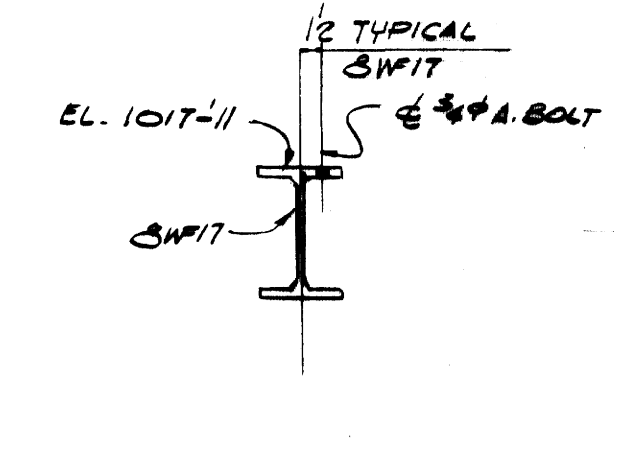
DETAIL (5)  
SCALE: 1/4" = 1'-0"



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



SECTION (C)  
SCALE: 1/4" = 1'-0"



SECTION (D)  
SCALE: 1/4" = 1'-0"

NOTE: 1/2" x 3" STIFFENERS AND 1/2" x 3" BRACING ARE TO OCCUR AT ALL POINTS AT WHICH 36WF BEAM IS BRACED AT BOTTOM

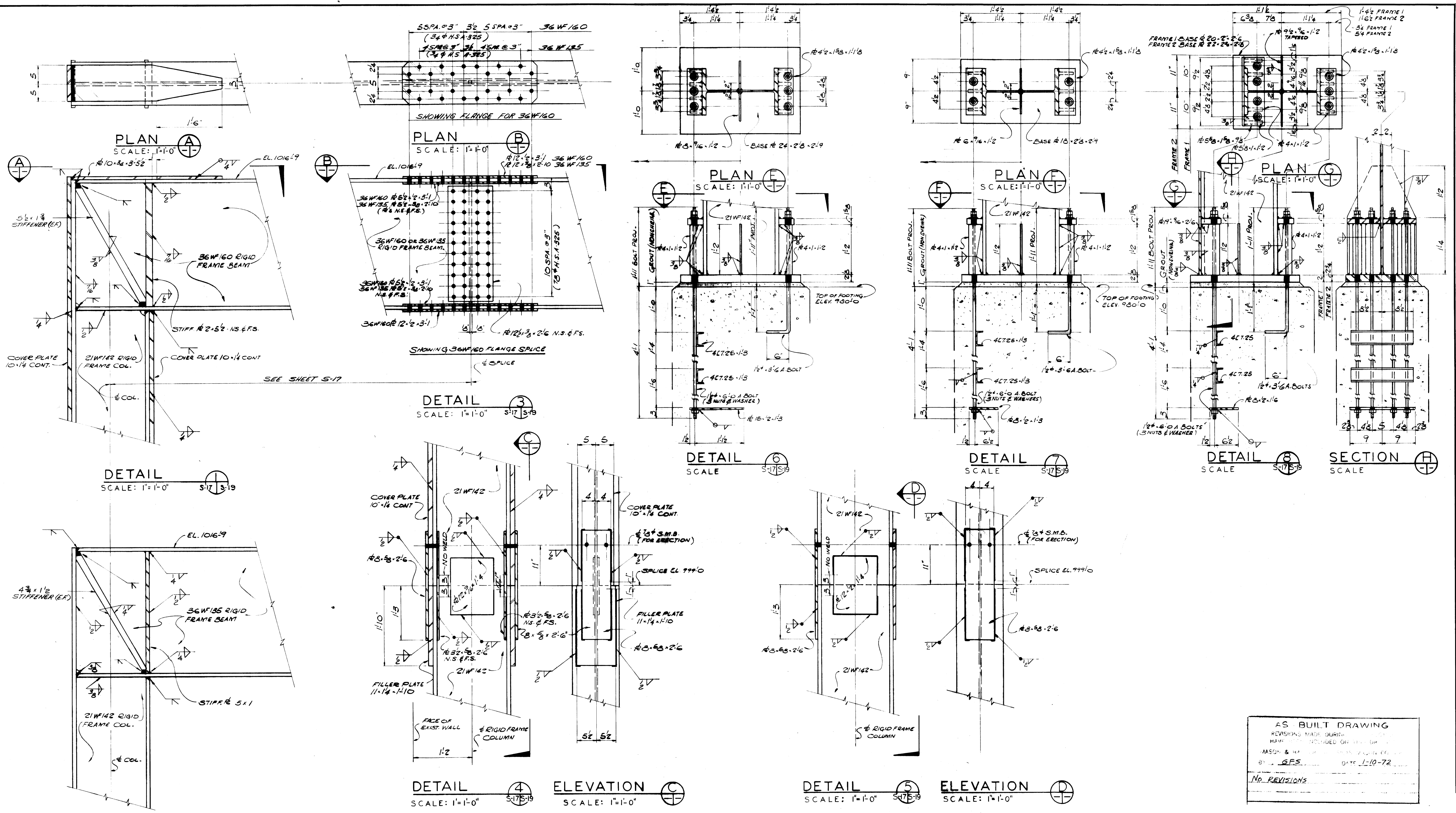
NOTE: USE 4 BOLT CONN. FOR STRINGER TO RIGID FRAME BEAM ONLY AT THIS COND. ALL OTHER STRINGERS TO RIGID FRAME BEAMS USE 2 BOLT CONN. AS SHOWN IN DETAIL

NOTE: THIS IS TYP. CONN. FOR STRINGER TO RIGID FRAME BEAM EXCEPT AS OTHERWISE NOTED.

AS-BUILT DRAWING  
REVISIONS MADE DURING CONSTRUCTION HAVE BEEN INCLUDED ON THIS DRAWING  
MASON & HANGLER - SILAS MASON CO., INC.  
BY: GFS DATE: 1-10-72  
NO REVISIONS



ADDITIONS & RENOVATIONS		
HEATING & COOLING PLANT - A. B. CHANDLER MEDICAL CENTER		
UNIVERSITY OF KENTUCKY LEXINGTON, KENTUCKY		
DRAWN BY	J.S.M. STRINGER PLAN & BRACING DETAILS - COOLING TOWER	DATE
TRACED BY	MASON & HANGLER - SILAS MASON CO., INC.	SCALE
CHECKED BY	P.F.H.	AS NOTED
COMMONWEALTH OF KENTUCKY		DRAWING NO.
DEPARTMENT OF FINANCE		S-18
DIVISION OF ENGINEERING		
FRANKFORT, KENTUCKY		
APPROVED BY	<i>[Signature]</i> DATE 5-28-70	
APPROVED BY	<i>[Signature]</i> DATE 6-1-70	
DIRECTOR, DIVISION OF ENGINEERING		



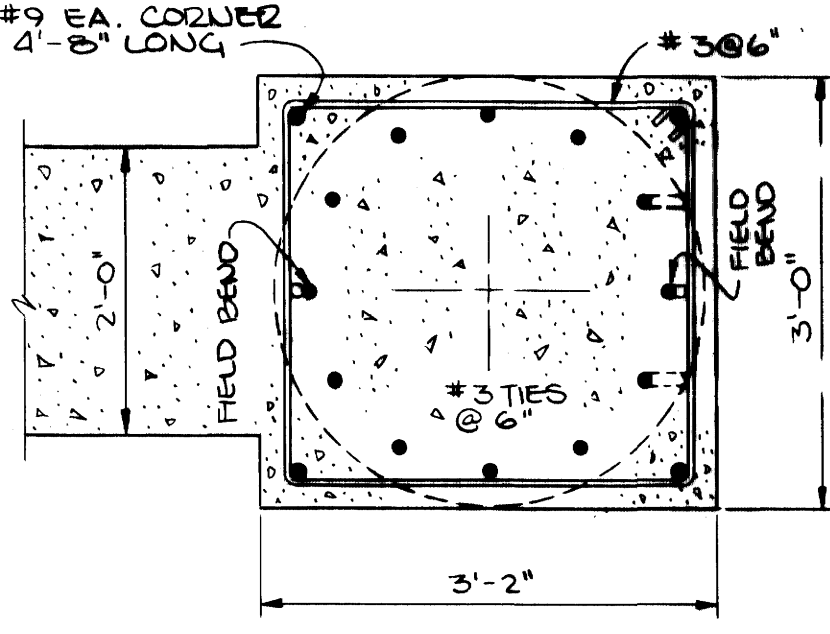
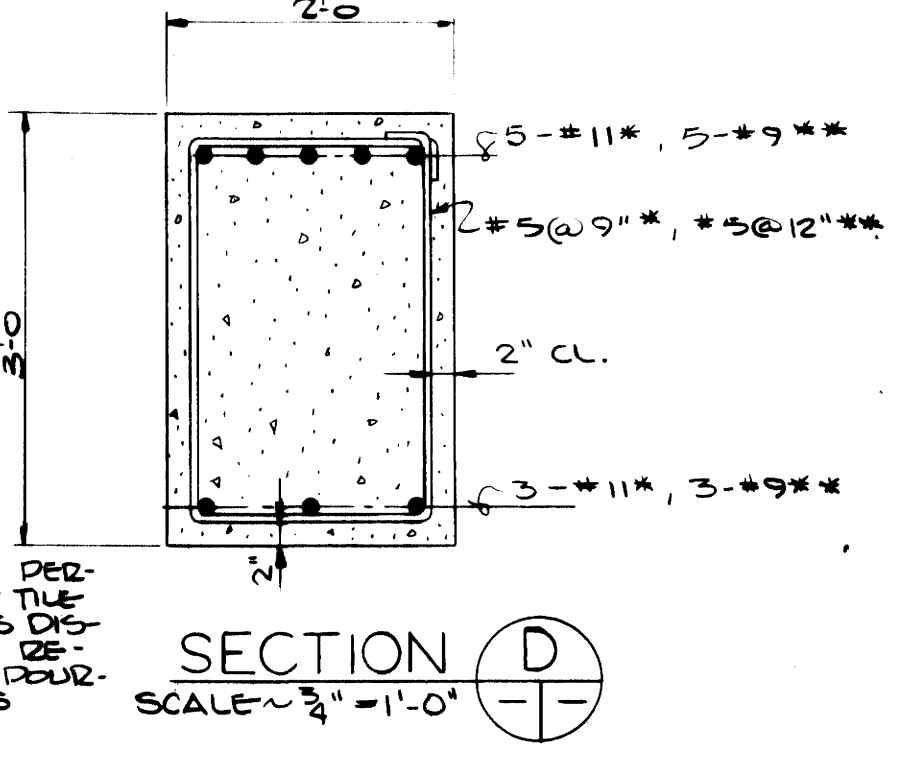
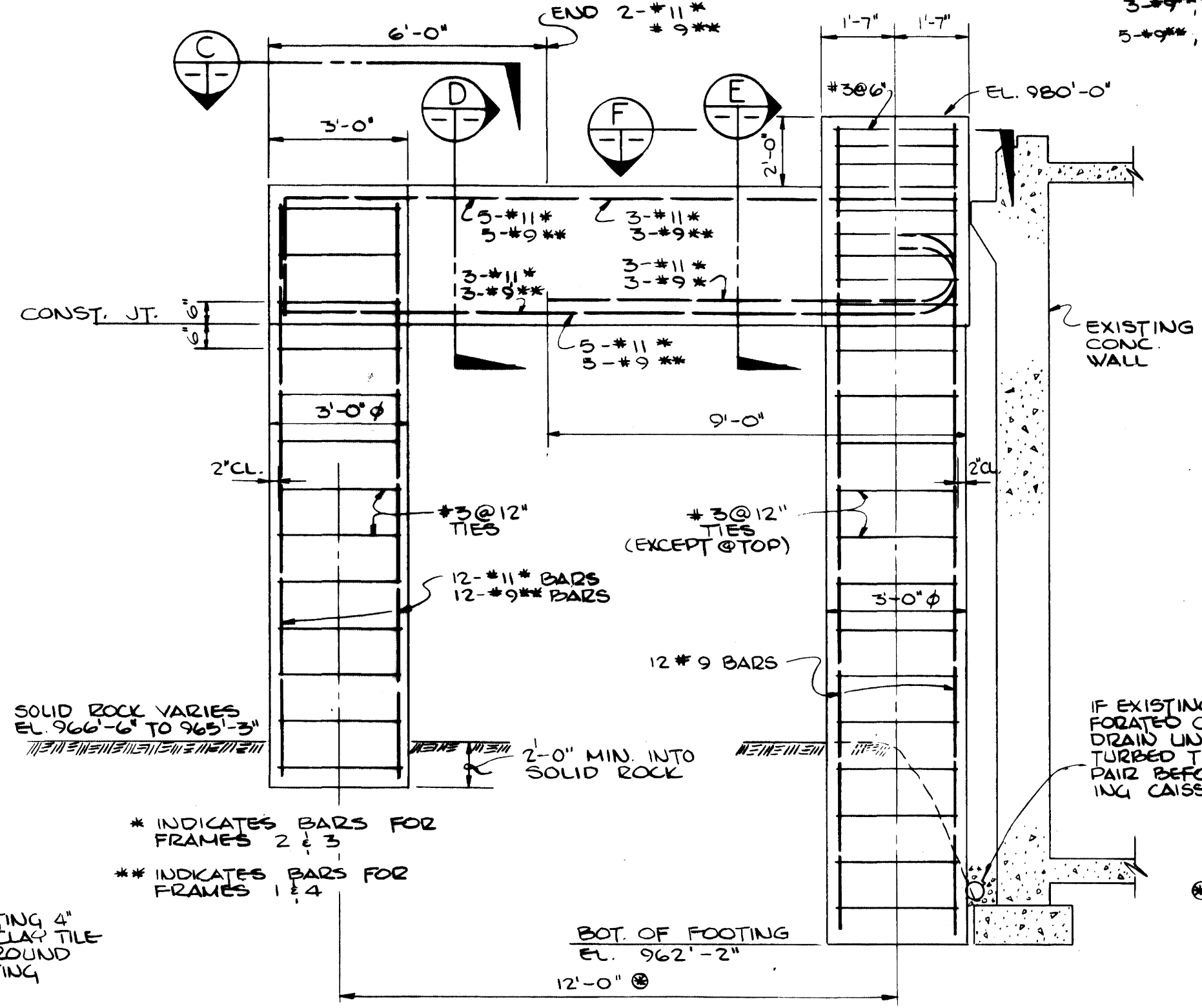
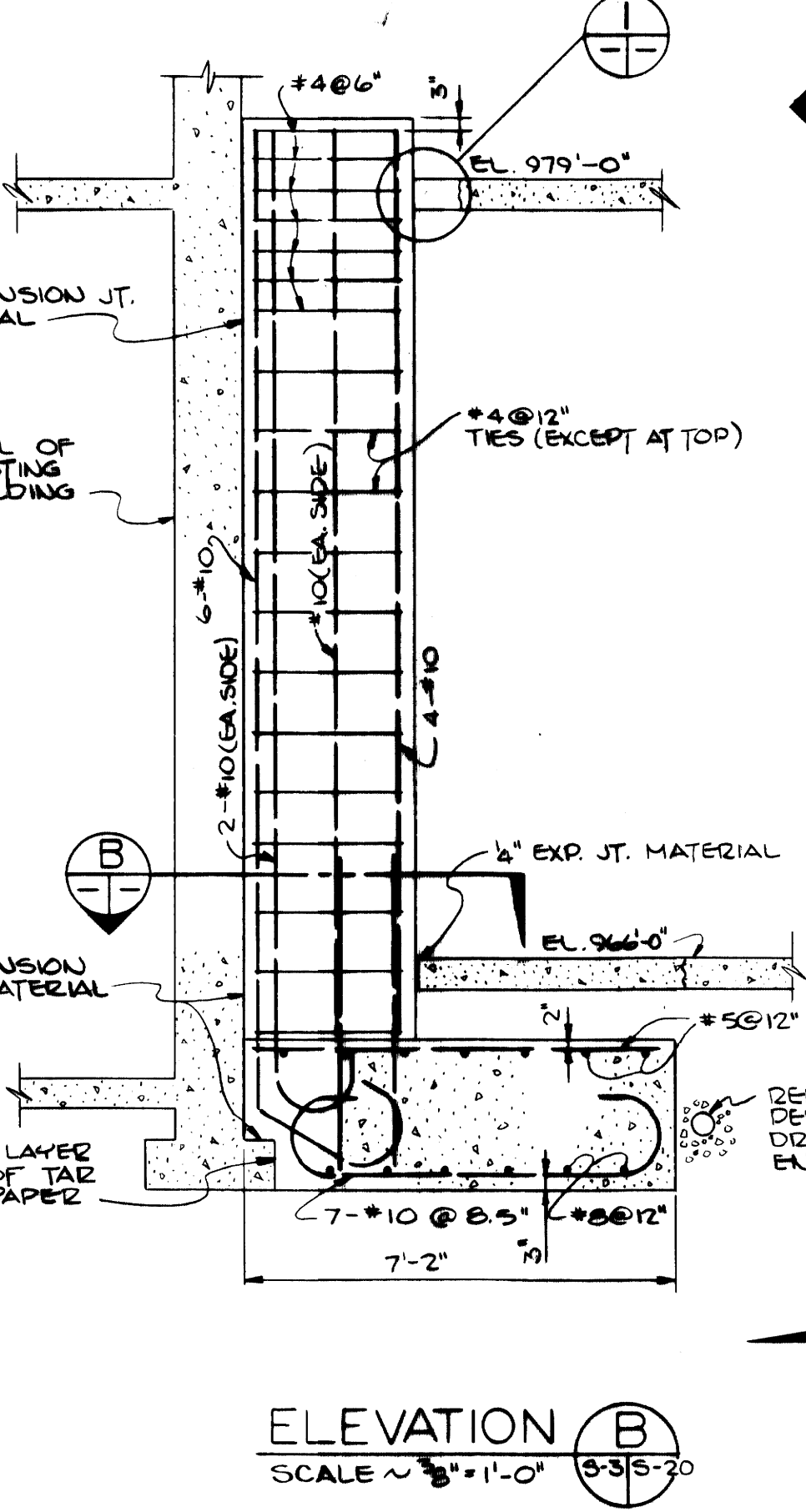
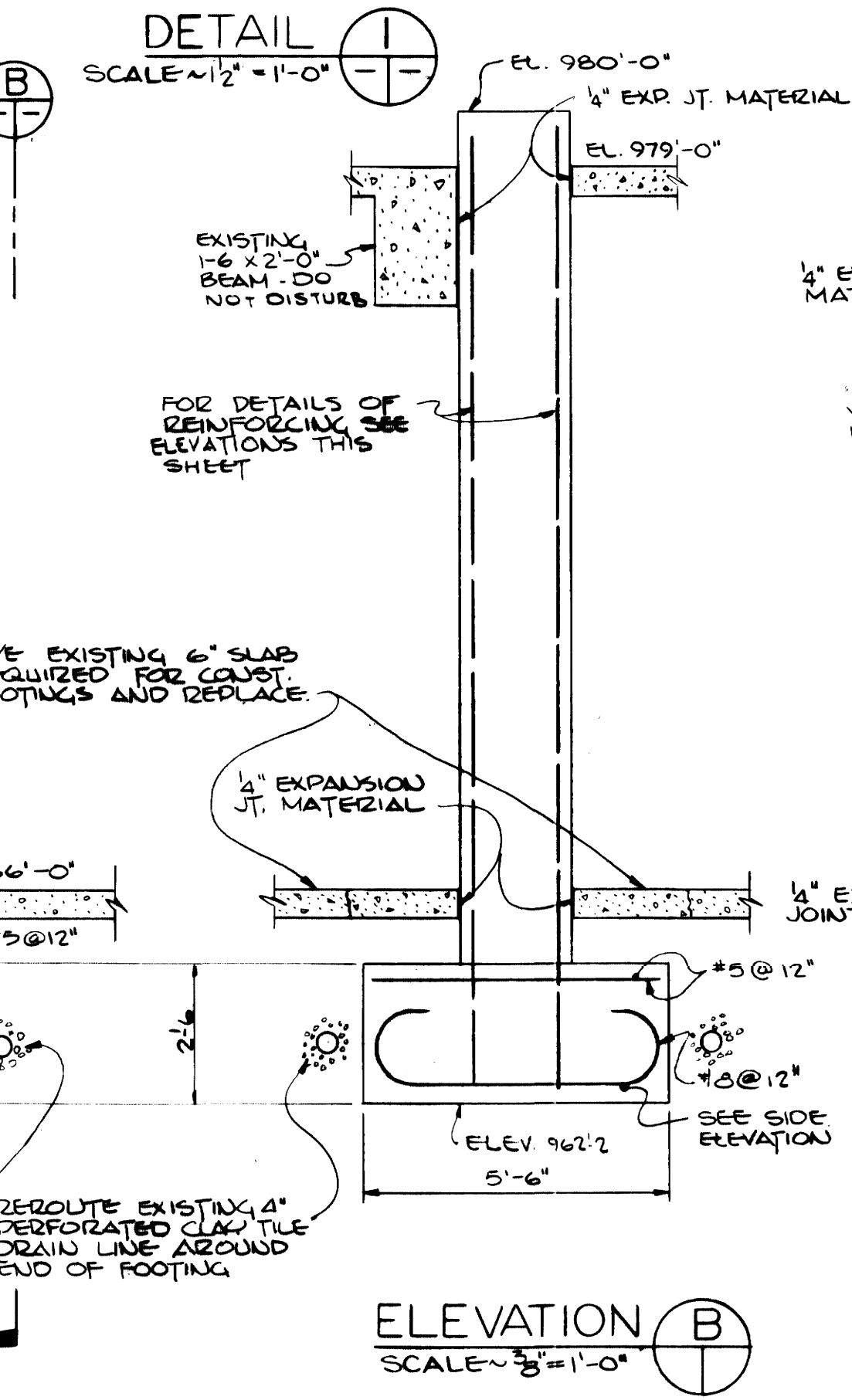
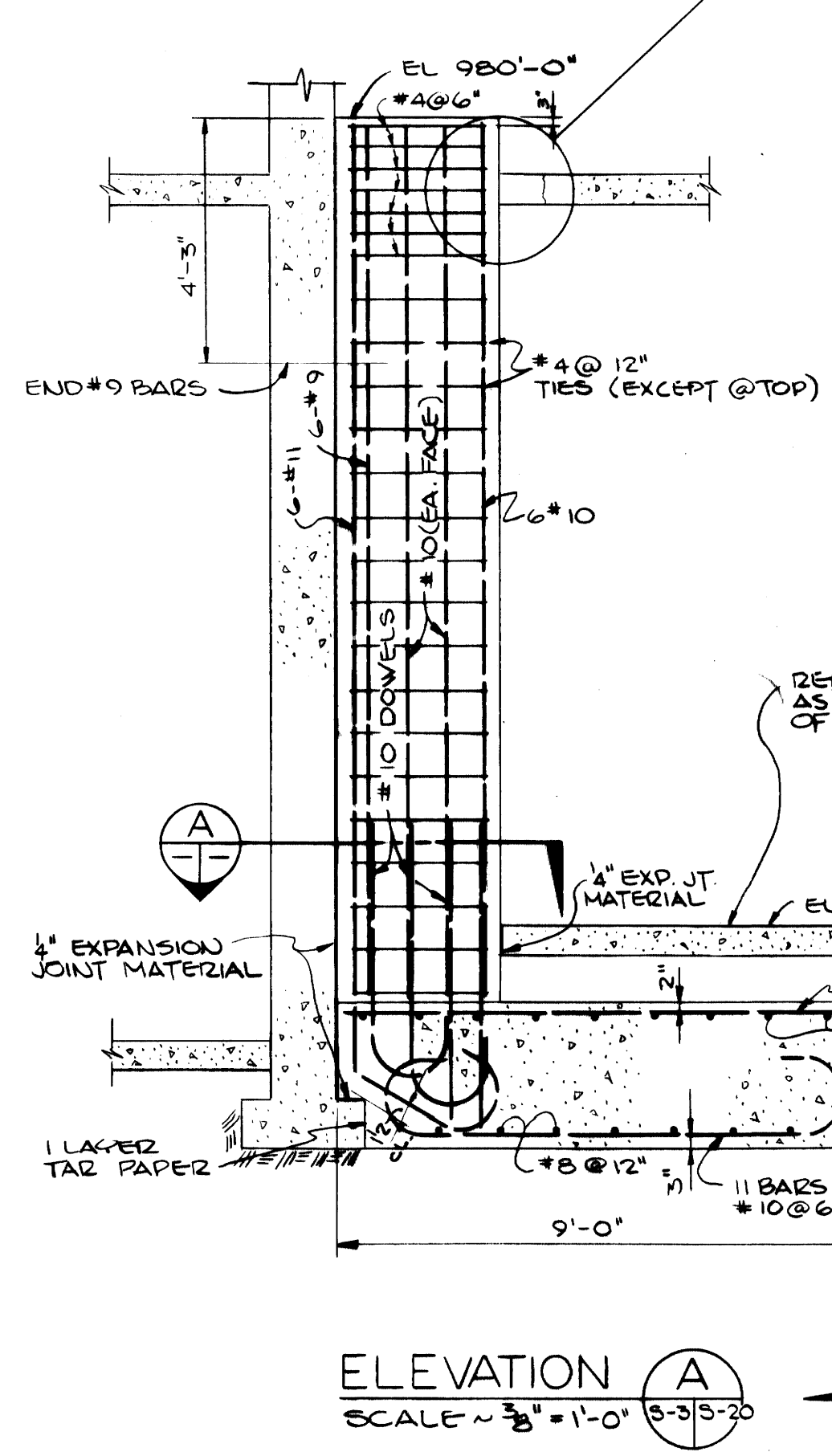
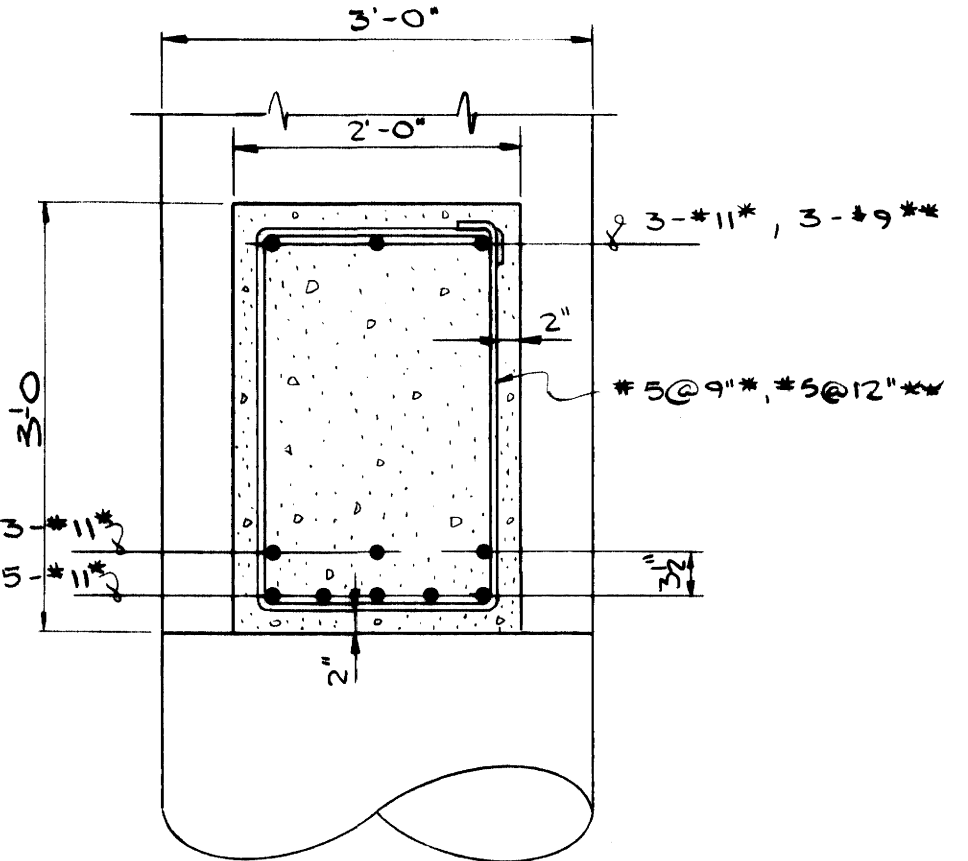
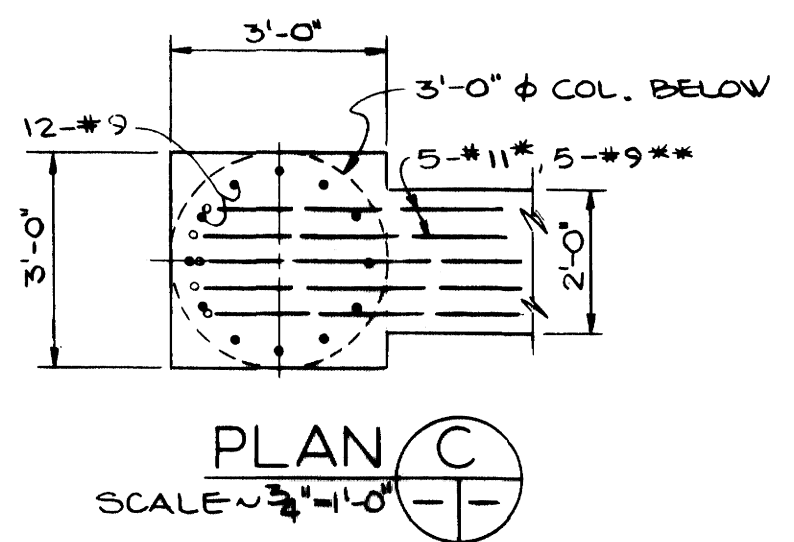
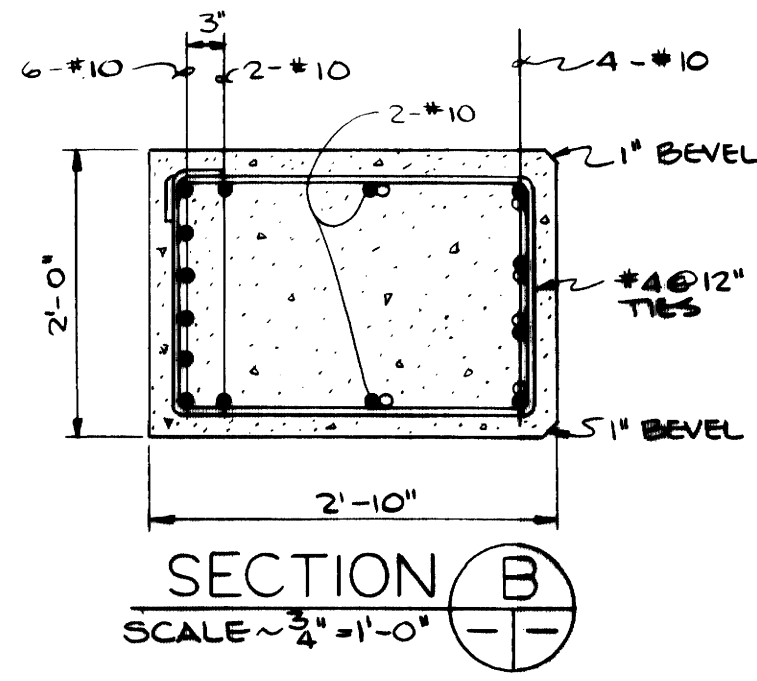
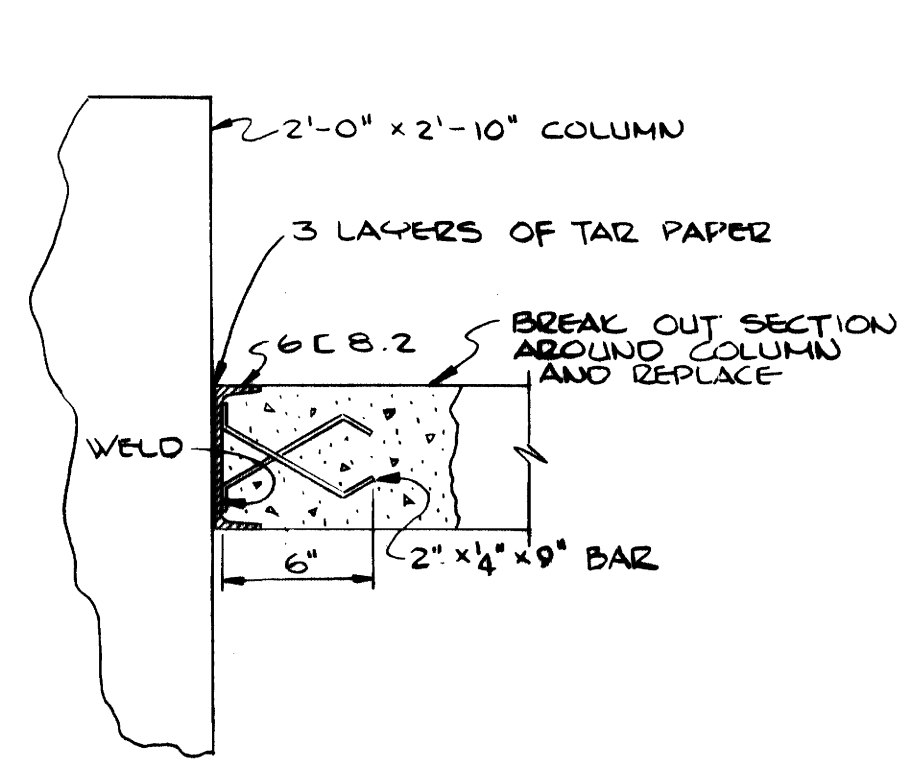
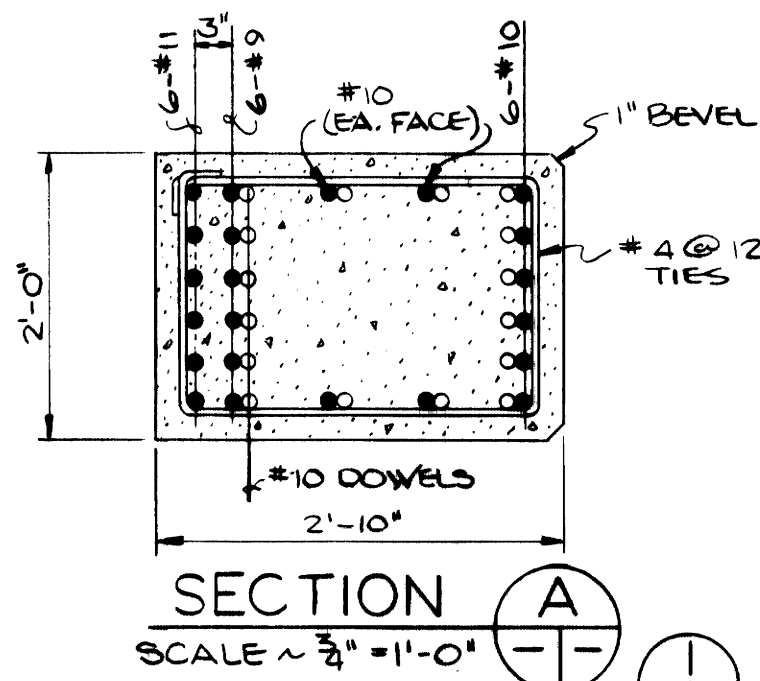
NOTE:  
ANCHOR BOLTS FOR COOLING TOWER  
BASE PLATES ARE TO BE A-325  $F_u = 40,000$  PSI

AS-BUILT DRAWING  
REVISIONS MADE DURING CONSTRUCTION  
HAVE BEEN INCLUDED ON THIS DRAWING  
BY: GFS DATE 1-10-72  
No REVISIONS

ADDITIONS & RENOVATIONS		
HEATING & COOLING PLANT - A. B. CHANDLER MEDICAL CENTER		
UNIVERSITY OF KENTUCKY		LEXINGTON, KENTUCKY
DRAWN BY	FRAME CONN. & BASE PLATES COOLING TOWER	DATE 5-28-70
TRACED BY	MASON & HANGER-SILAS MASON CO., INC.	SCALE AS SHOWN
1500 W. MAIN ST.	LEXINGTON, KENTUCKY	SPEC. NO.
CHECKED BY	COMMONWEALTH OF KENTUCKY	DRAWING NO
P.F.H.	DEPARTMENT OF FINANCE	S-19
	DIVISION OF ENGINEERING	
APPROVED BY	<i>C. J. Marshall</i>	DATE 5-28-70
	AGENCY HEAD	
APPROVED BY	<i>W. J. McConnel</i>	DATE 6-1-70
	DIRECTOR, DIVISION OF ENGINEERING	



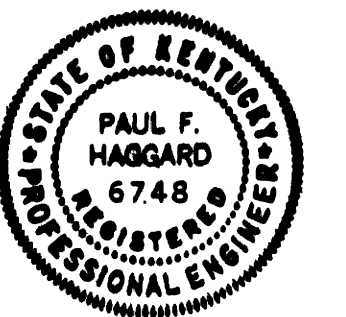




NOTE:  
CONCRETE FOR TOWER FOUNDATIONS  
TO BE 5,000 PSI

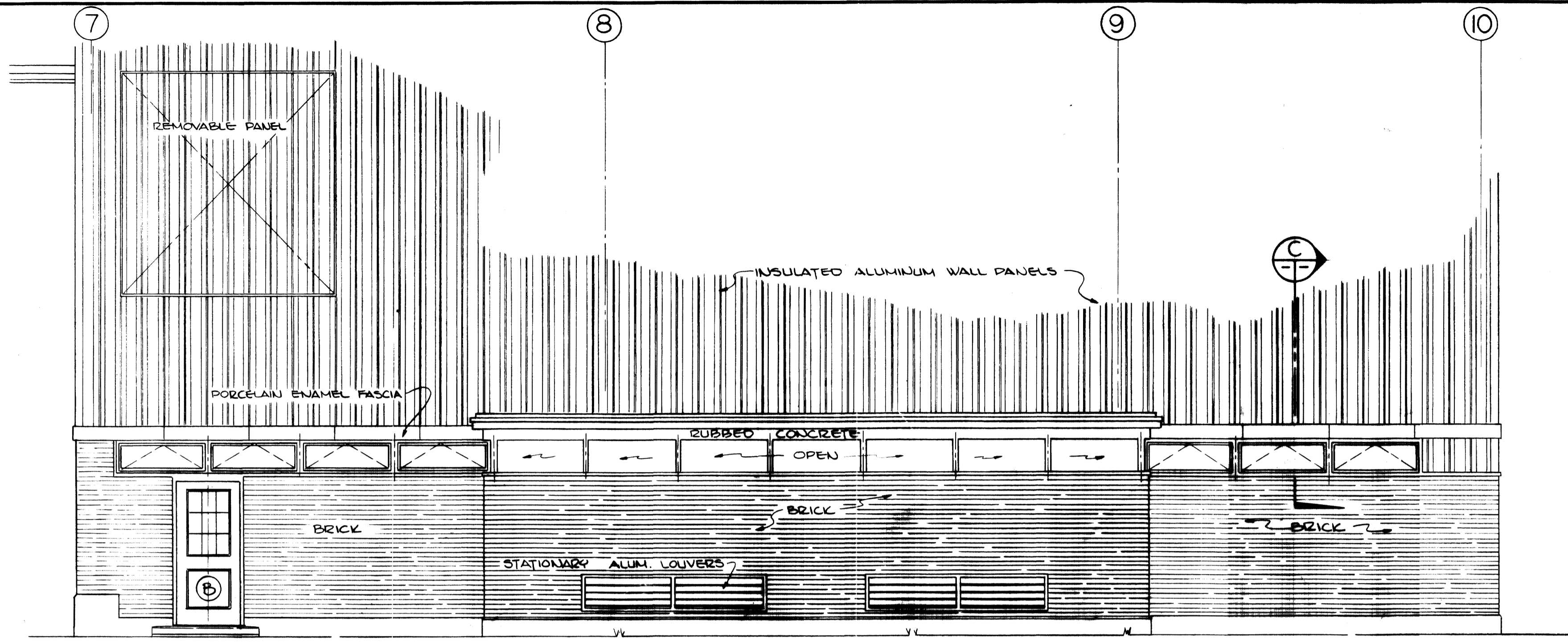
THIS DIMENSION FOR THE SOUTH FOUNDATION OF FRAME 3 MAY HAVE TO BE EXTENDED TO MISS STORM SEWER. IF DIMENSION IS INCREASED EXTEND OR SLICE LONGITUDINAL BARS IN CROSS BEAM BY THE SAME AMOUNT. PROVIDE ADDITIONAL STIRRUPS AT THE SAME SPACING.

AS-BUILT DRAWING  
REVISIONS MADE DURING CONSTRUCTION  
HAVE BEEN INCLUDED ON THIS DRAWING  
BY GFS DATE 1-10-72  
NO REVISIONS



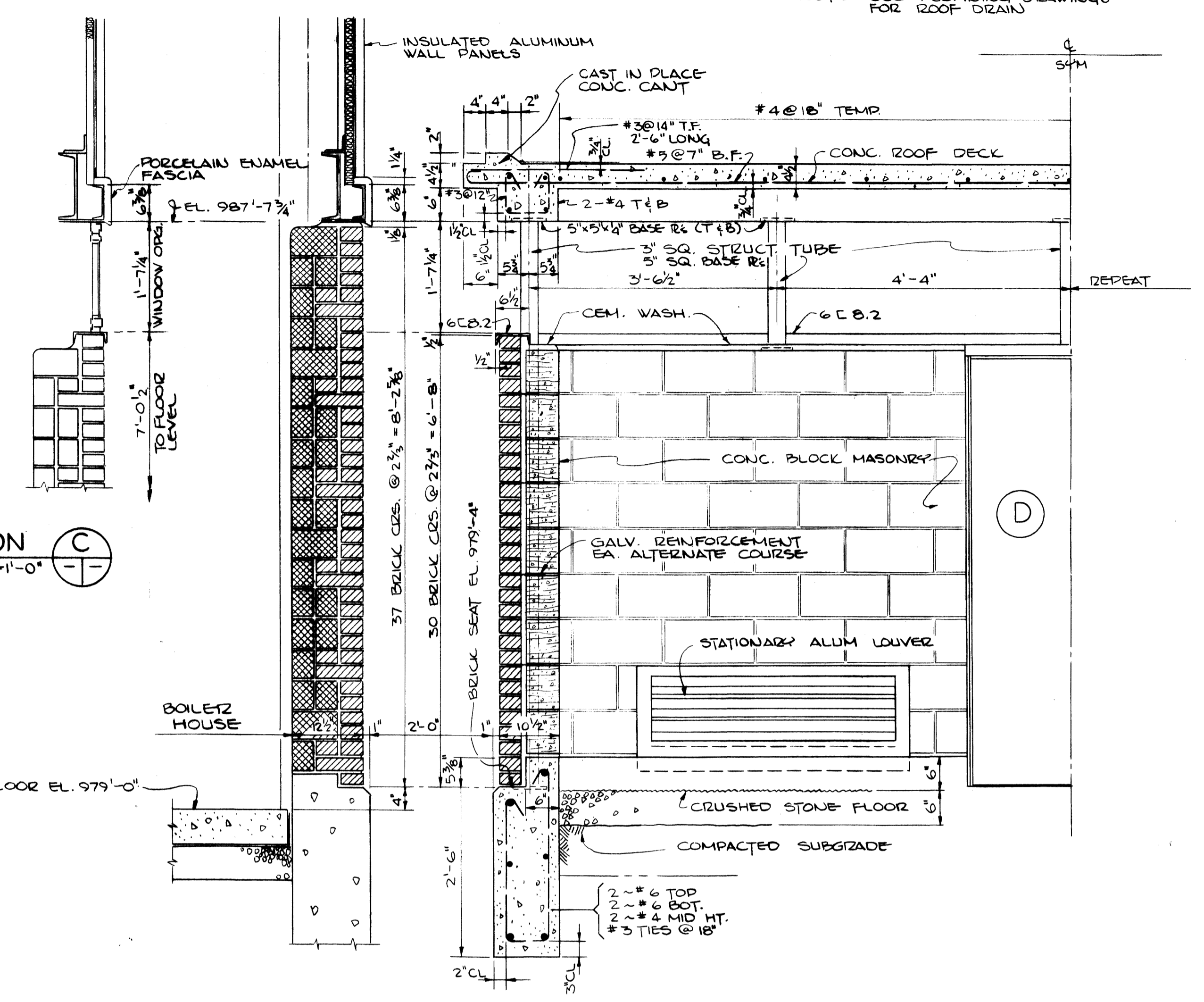
ADDITIONS & RENOVATIONS		
HEATING & COOLING PLANT - A. B. CHANDLER MEDICAL CENTER UNIVERSITY OF KENTUCKY LEXINGTON, KENTUCKY		
DRAWN BY J.B.W.	FOUNDATION DETAILS - COOLING TOWER	DATE 5-28-70
TRACED BY	MASON & HANGER - SILAS MASON CO., INC. 1500 W. MAIN ST. LEXINGTON, KENTUCKY	SCALE AS SHOWN SPEC. NO.
CHECKED BY R.F.H.	COMMONWEALTH OF KENTUCKY DEPARTMENT OF FINANCE DIVISION OF ENGINEERING FRANKFORT, KENTUCKY	DRAWING NO. S-20
APPROVED BY <i>[Signature]</i>	AGENCY HEAD	DATE 5-28-70
APPROVED BY <i>[Signature]</i>	DIRECTOR, DIVISION OF ENGINEERING	DATE 6-1-70

NOTE: SEE PLUMBING DRAWINGS FOR ROOF DRAIN

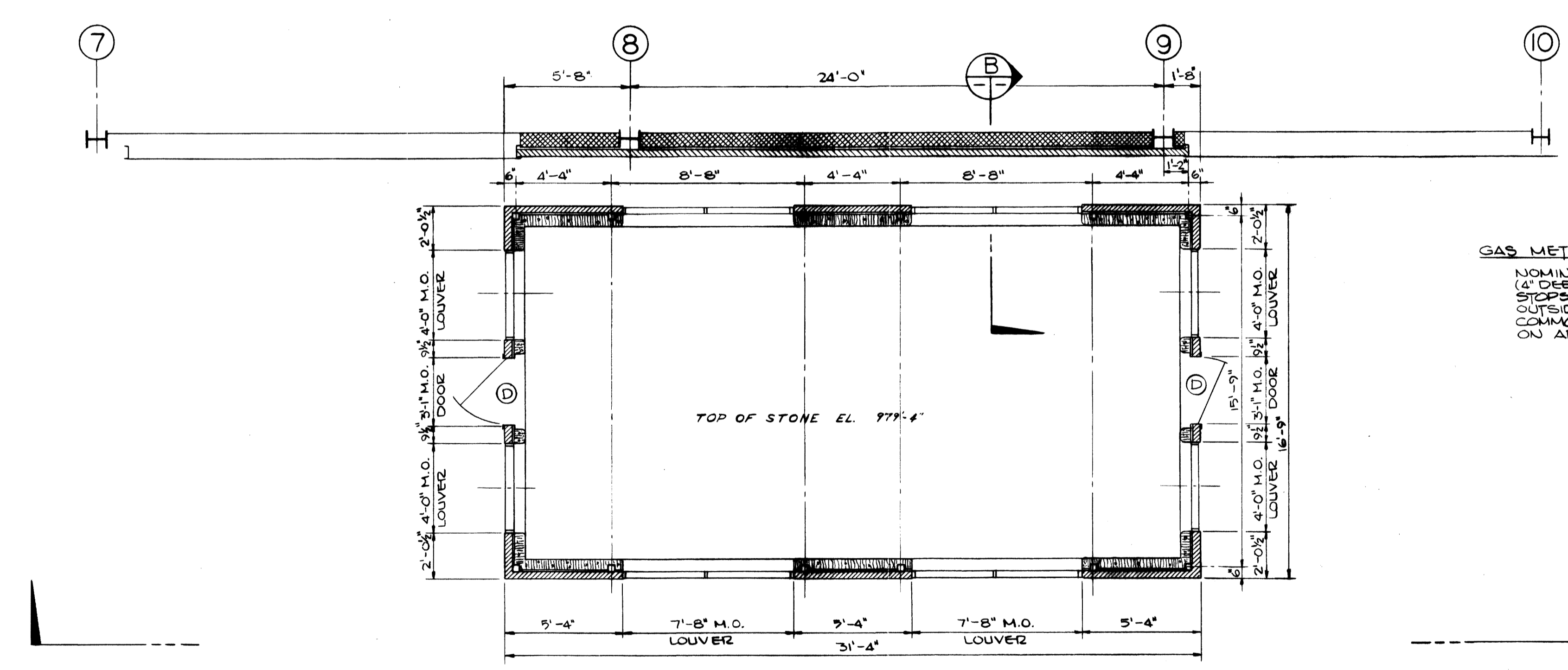


ELEVATION A  
SCALE 1/4" = 1'-0"

SECTION C  
SCALE 3/4" = 1'-0"

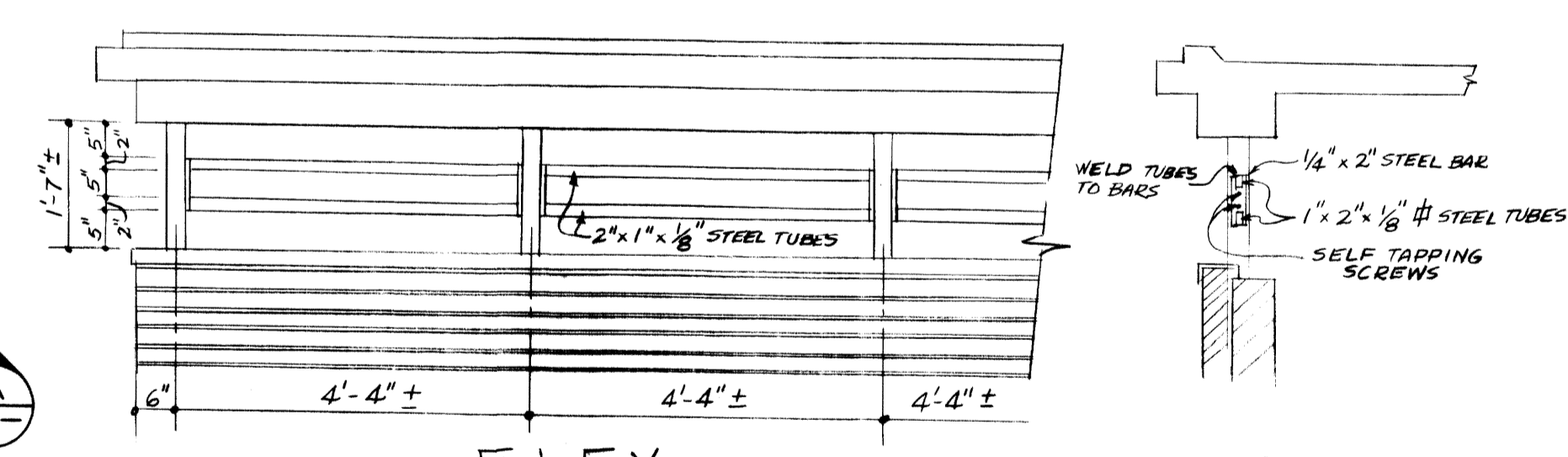


SECTION B  
SCALE 3/4" = 1'-0"



PLAN OF GAS METER HOUSE  
SCALE 1/4" = 1'-0"

**GAS METER HOUSE LOUVERS**  
NOMINAL 48" x 16" ALUMINUM WEATHER LOUVERS (4" DEEP) WITH BLADES (HAVING SINGLE WEATHER STOPS) SPACED ON 4" CENTERS. FRAMES TO HAVE OUTSIDE FLANGES. DOUBLE LOUVERS (WITH COMMON CENTER MULLIONS) TO OMIT FLANGES ON ADJOINING EDGES.

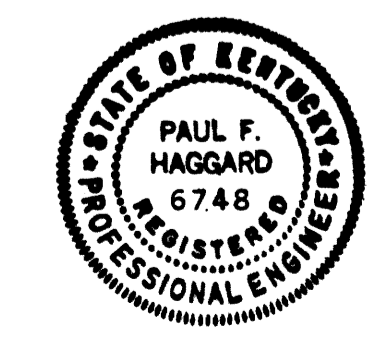


ELEV. SCALE 1/2" = 1'-0"  
SECT. SCALE 1/2" = 1'-0"

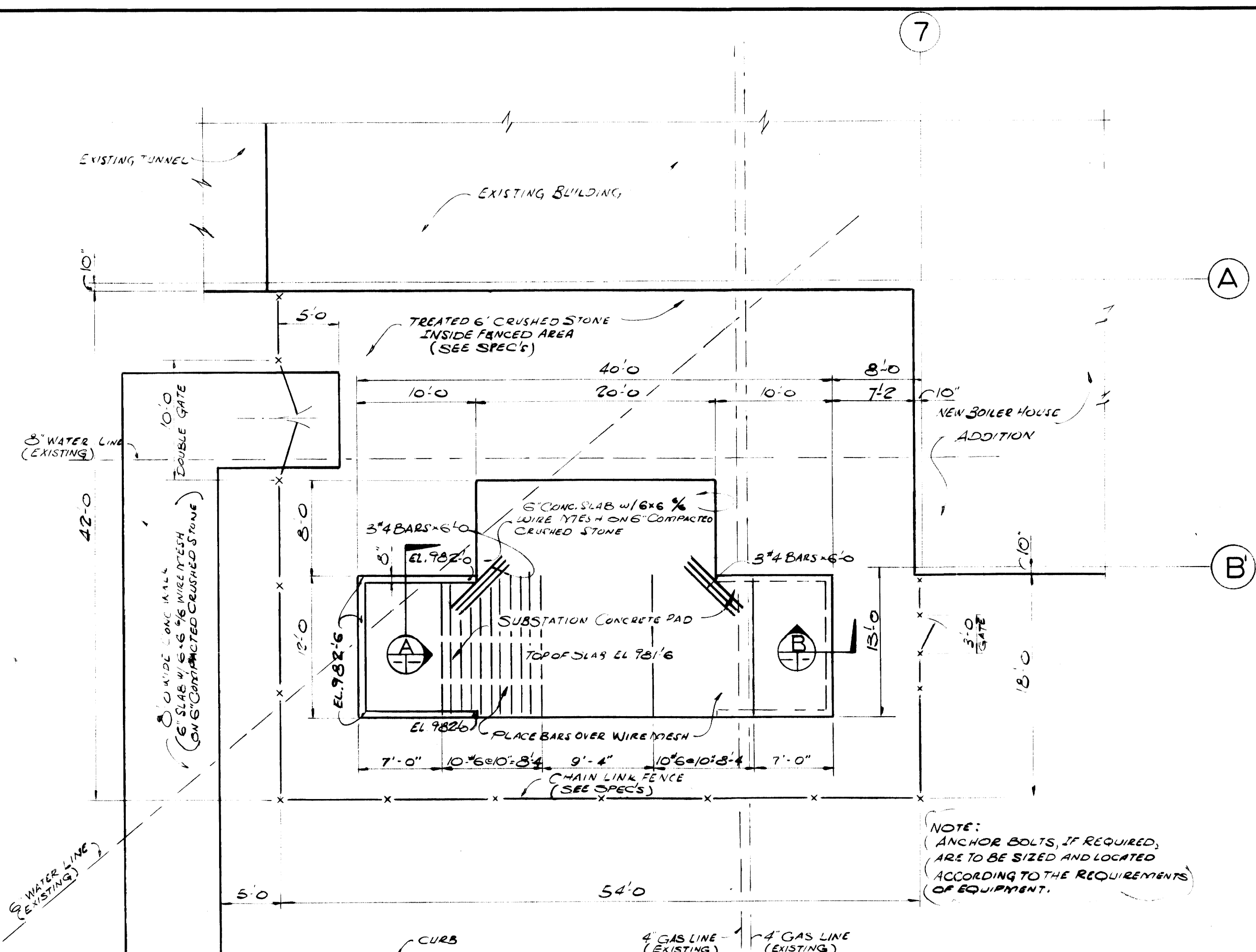
18 OPENINGS @ 4'-4 1/2" COL. SPA.  
4 OPENINGS @ 3'-6 1/2" COL. SPA.

**AS-BUILT DRAWING**  
REVISIONS MADE DURING CONSTRUCTION HAVE BEEN INCLUDED ON THIS DRAWING  
MASON & HANGER - SILAS MASON CO., INC.  
BY SFS DATE 1-10-72  
ADDED SECURITY BAR DETAIL

SECURITY BARS FOR WALL OPENINGS

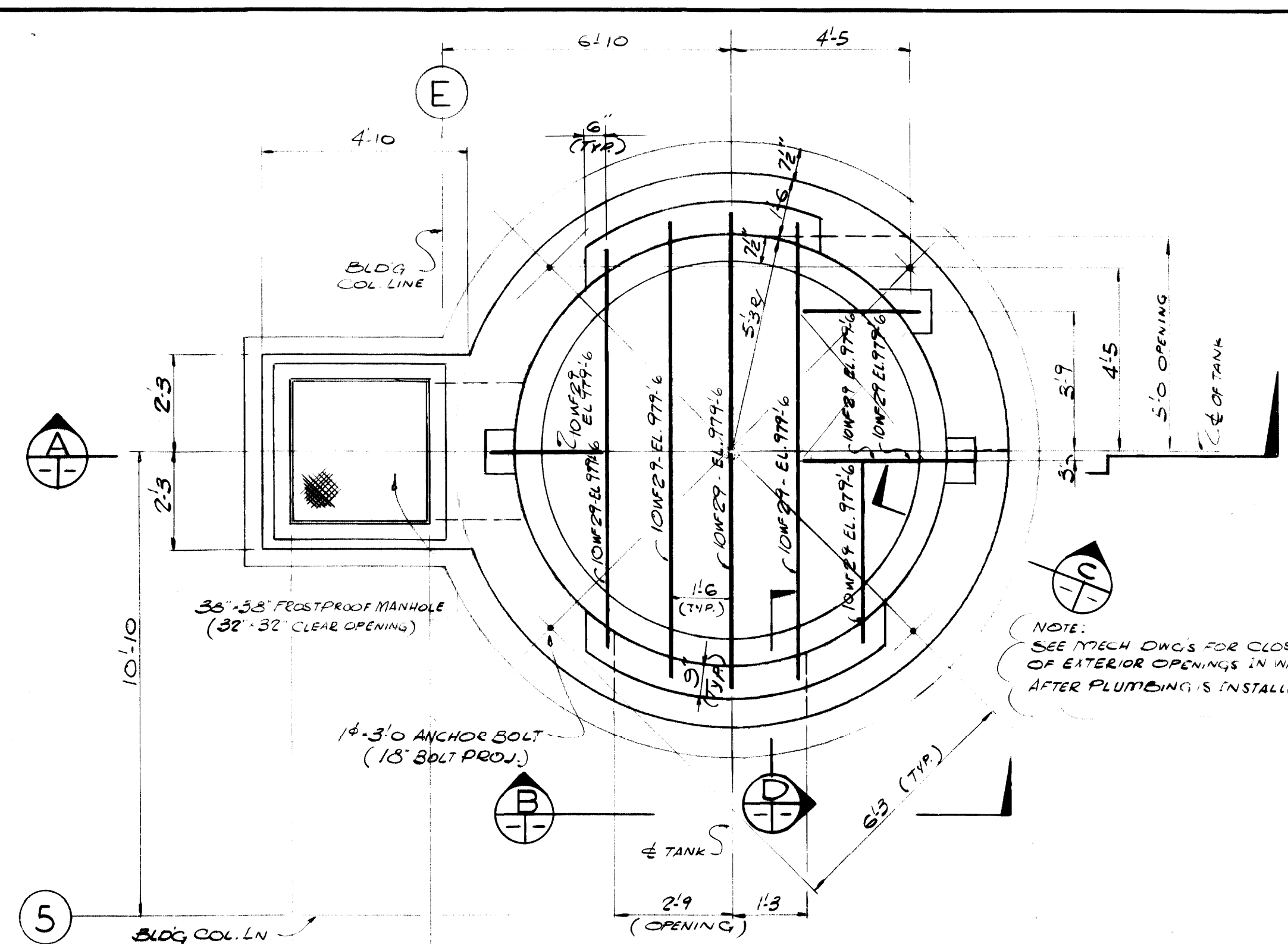


ADDITIONS & RENOVATIONS		
HEATING & COOLING PLANT - A. B. CHANDLER MEDICAL CENTER UNIVERSITY OF KENTUCKY LEXINGTON, KENTUCKY		
DRAWN BY D.W.	GAS METER HOUSE DETAILS	DATE 5-28-70
TRACED BY J.P.W.	MASON & HANGER - SILAS MASON CO., INC. 1500 W. MAIN ST. LEXINGTON, KENTUCKY	SCALE AS NOTED
CHECKED BY D.F.H.	COMMONWEALTH OF KENTUCKY DEPARTMENT OF FINANCE DIVISION OF ENGINEERING FRANKFORT KENTUCKY	SPEC. NO. DRAWING NO. S-21
APPROVED BY <i>[Signature]</i>	AGENCY HEAD	DATE 5-28-70
APPROVED BY <i>[Signature]</i>	DIRECTOR, DIVISION OF ENGINEERING	DATE 6-1-70



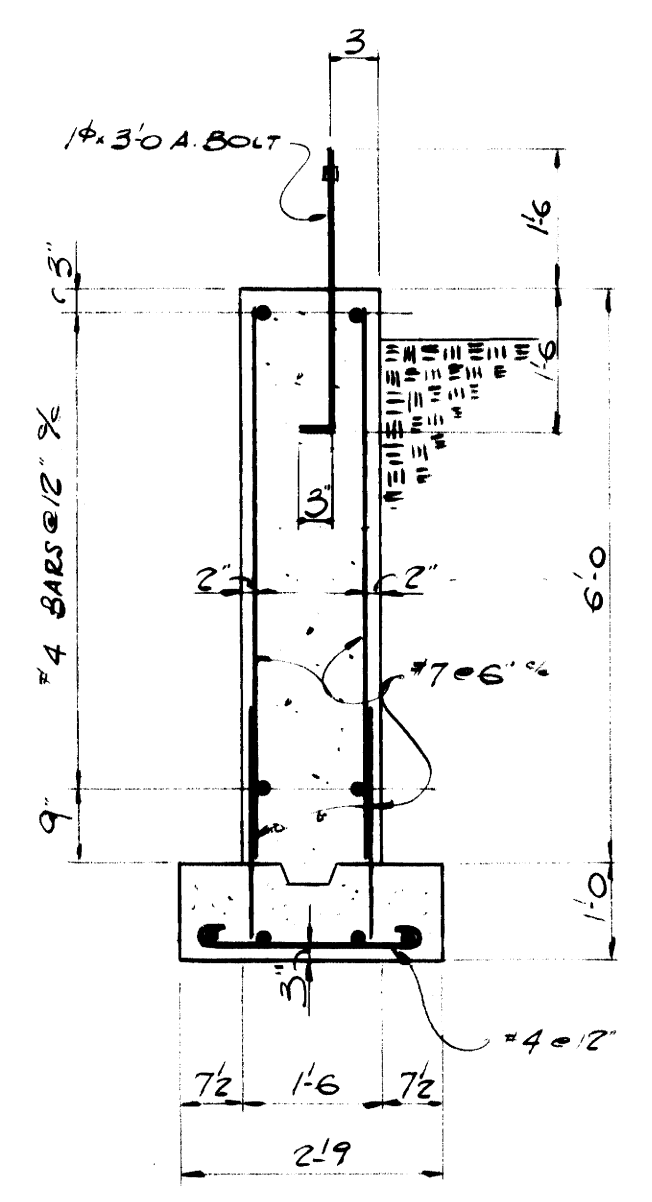
**SUBSTATION CONCRETE PAD PLAN**

SCALE: 1/8"=1'-0"



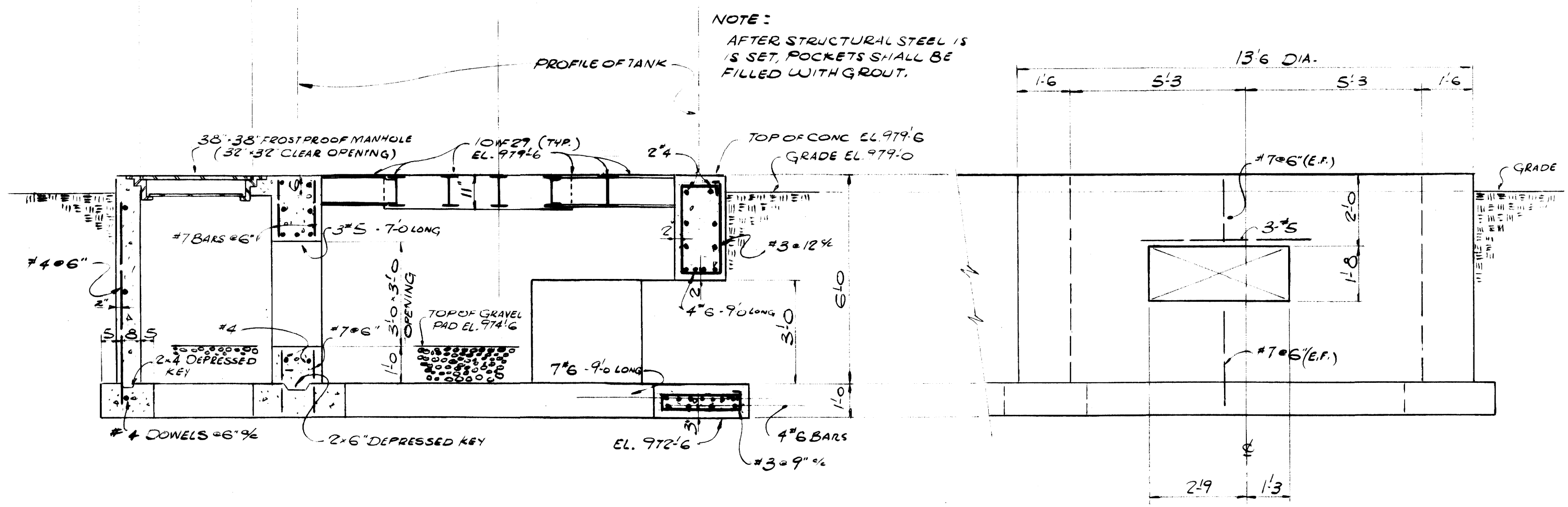
**STORAGE TANK FOUNDATION PLAN**

SCALE: 3/8"=1'-0"



**SECTION C-C**

SCALE: 3/8"=1'-0"

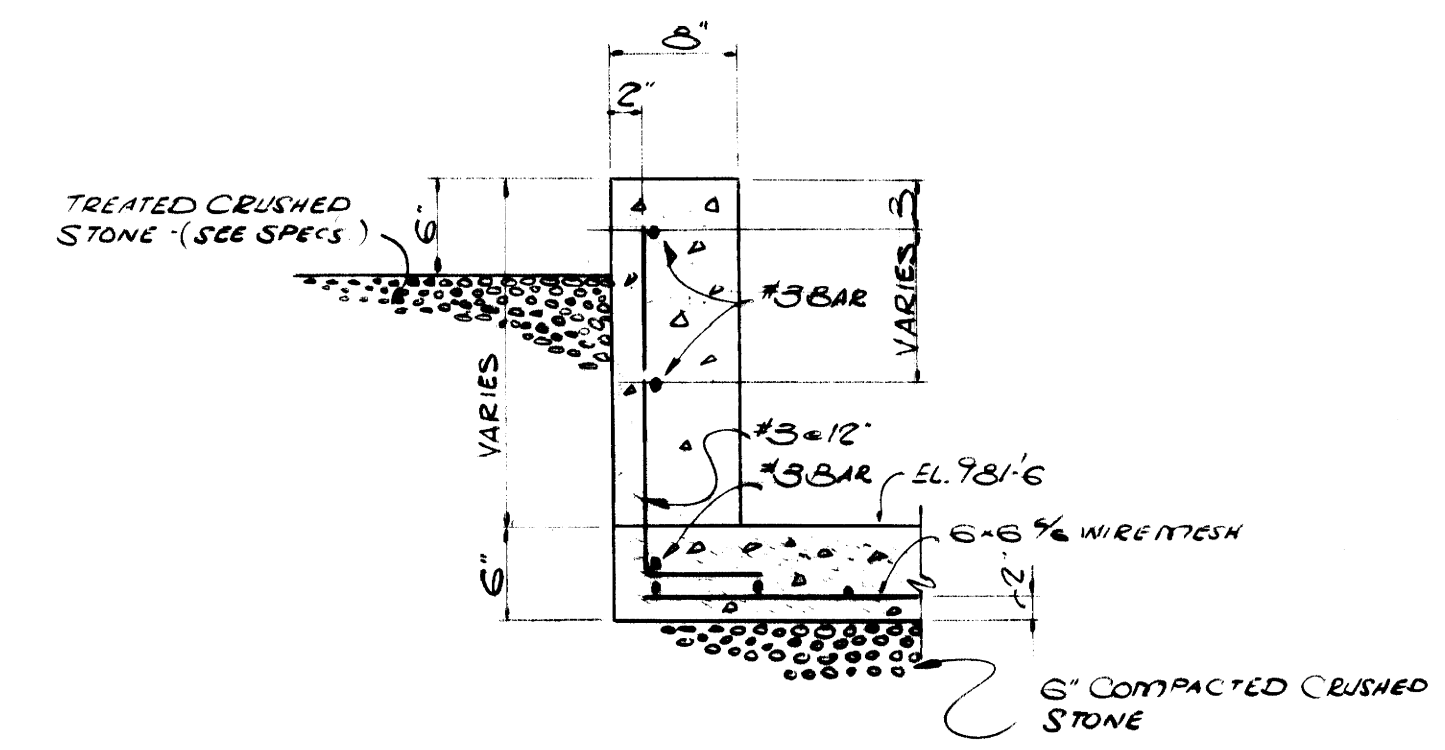


**SECTION A-A**

SCALE: 3/8"=1'-0"

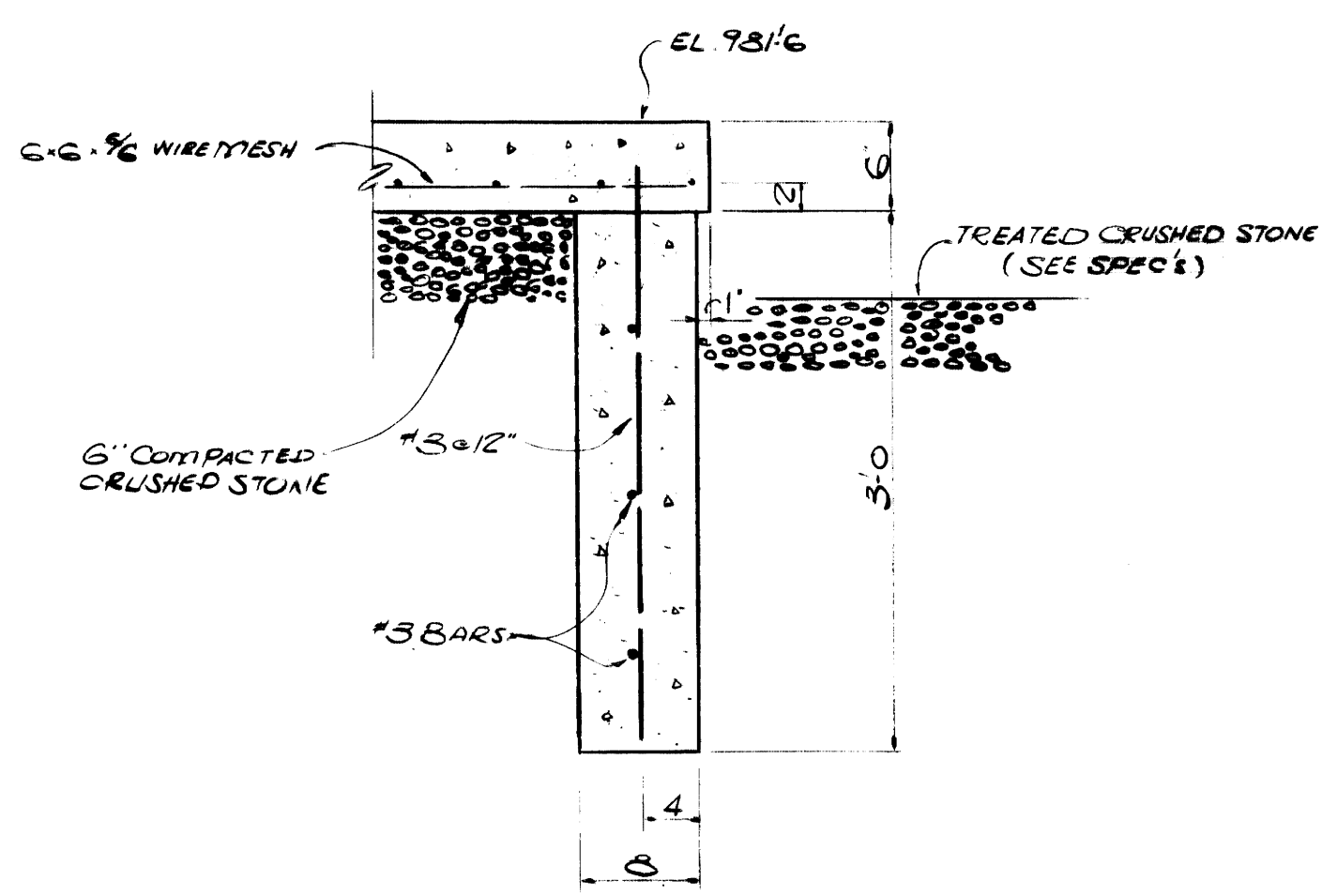
**ELEVATION B-B**

SCALE: 3/8"=1'-0"



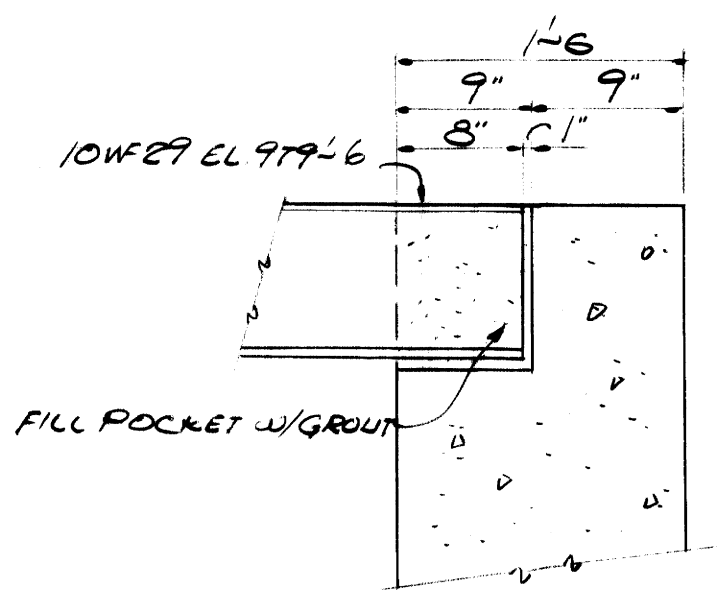
**SECTION A-A**

SCALE: 1"=1'-0"



**SECTION B-B**

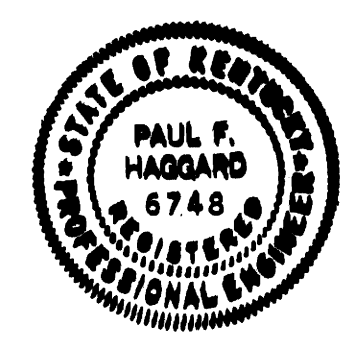
SCALE: 1"=1'-0"



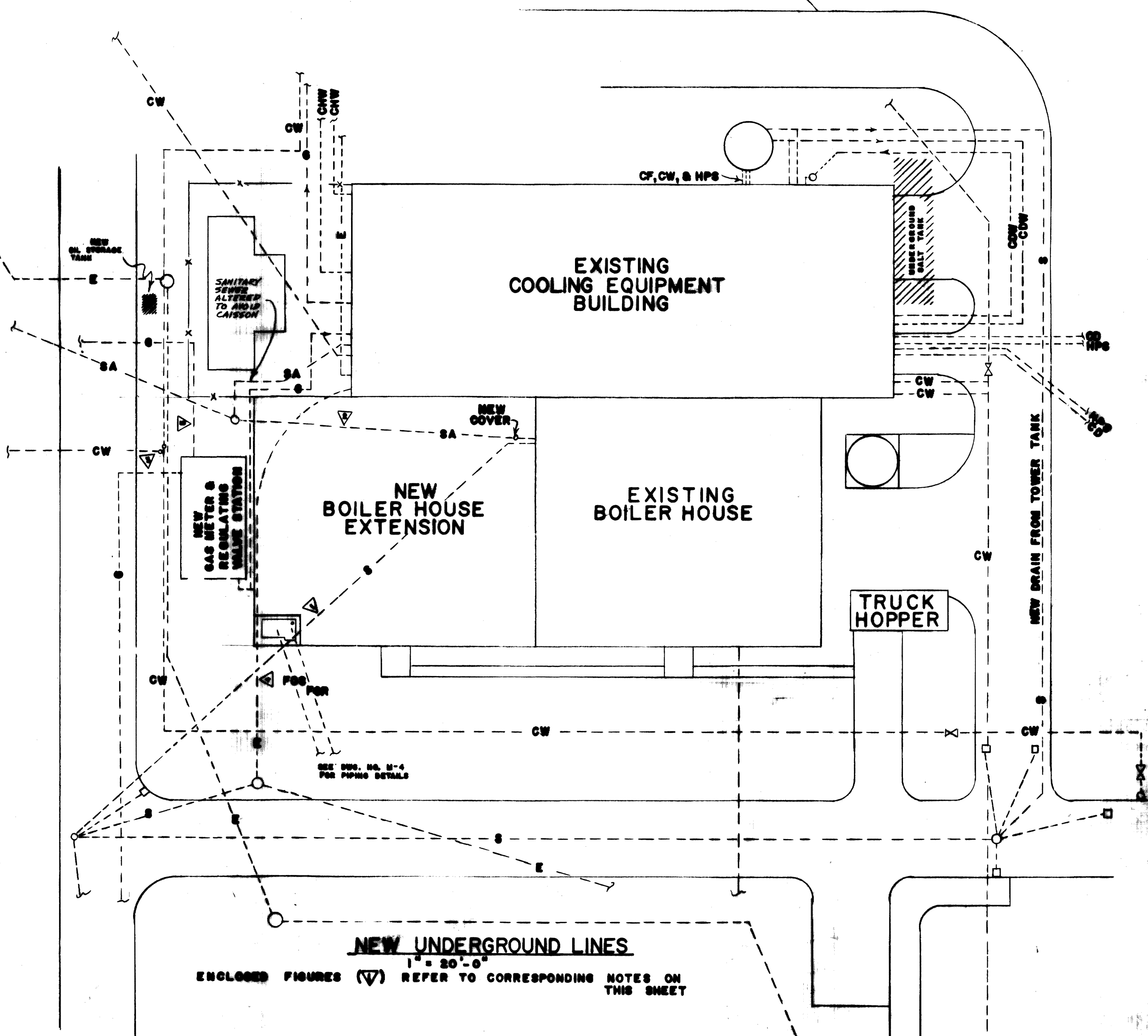
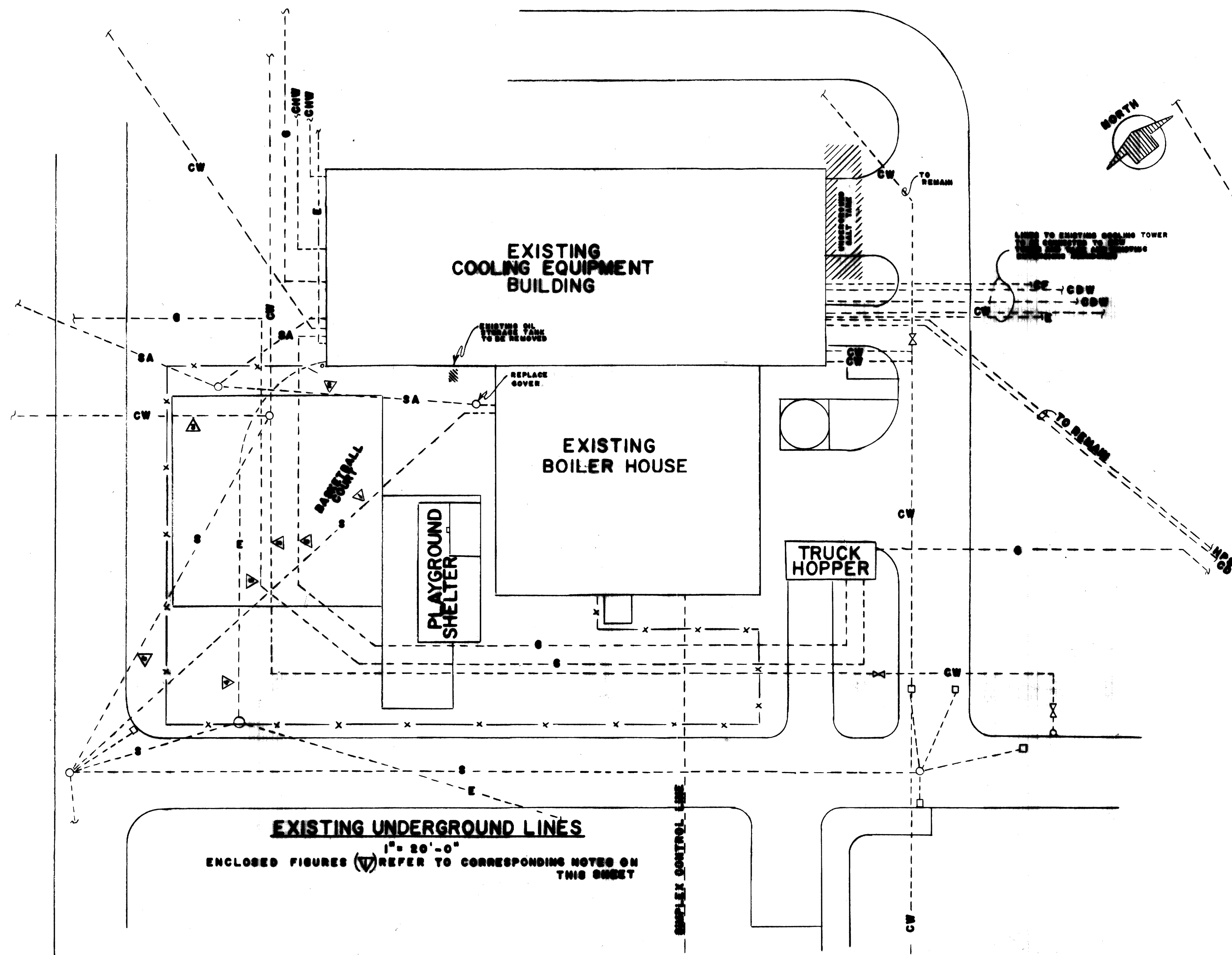
**SECTION D-D**

SCALE: 1"=1'-0"

REVISIONS  
 1-10-72  
 CORRECTED ELEVATION OF TANK FOUNDATION



ADDITIONS & RENOVATIONS		
HEATING & COOLING PLANT - A. B. CHANDLER MEDICAL CENTER		
UNIVERSITY OF KENTUCKY LEXINGTON, KENTUCKY		
DRAWN BY J.S.M.	TRANSFORMER PAD & STORAGE TANK FOUNDATION	DATE 5-28-70
TRACED BY	MASON & HANGER-SILAS MASON CO., INC. 1500 W. MAIN ST. LEXINGTON, KENTUCKY	SCALE AS NOTED
CHECKED BY P.F.H.	COMMONWEALTH OF KENTUCKY DEPARTMENT OF FINANCE DIVISION OF ENGINEERING FRANKFORT, KENTUCKY	SPEC. NO. S-22
APPROVED BY <i>[Signature]</i>	AGENCY HEAD	DATE 5-28-70
APPROVED BY <i>[Signature]</i>	DIRECTOR, DIVISION OF ENGINEERING	DATE 1-1-70



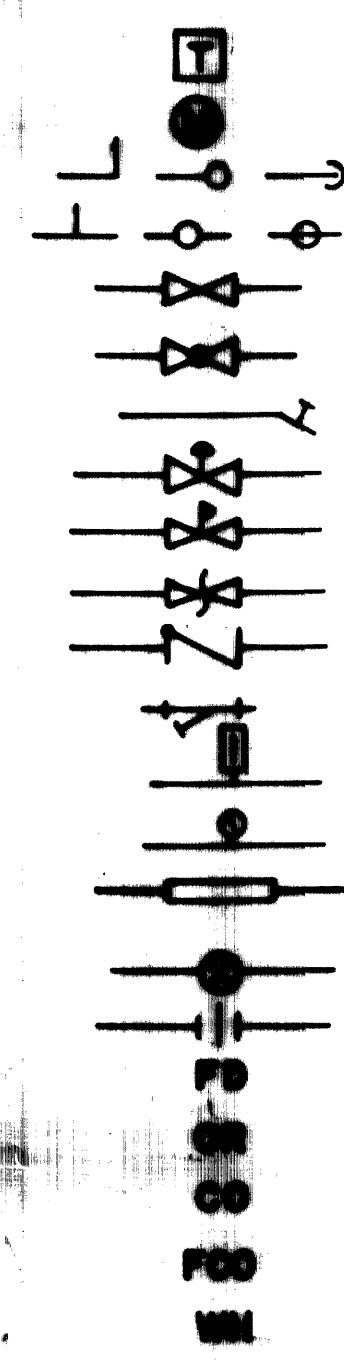
**EXISTING UNDERGROUND LINES**  
 1" = 20'-0"  
 ENCLOSED FIGURES (V) REFER TO CORRESPONDING NOTES ON THIS SHEET

**NEW UNDERGROUND LINES**  
 1" = 20'-0"  
 ENCLOSED FIGURES (V) REFER TO CORRESPONDING NOTES ON THIS SHEET

**MECHANICAL LEGEND**

EXISTING PIPING (ABOVE GROUND OR FLOOR)	—————
EXISTING PIPING (UNDER GROUND OR FLOOR)	-----
NEW PIPING (ABOVE GROUND OR FLOOR)	—————
NEW PIPING (UNDER GROUND OR FLOOR)	-----
PIPING USAGE SYMBOLS:	
AIR	A
BLOWDOWN	BD
CONTINUOUS BLOWDOWN	CB
CONDENSATE (STEAM)	CD
CONDENSING WATER	CDW
CHEMICAL FEED	CF
CHILLED WATER	CHW
COLD SOFT WATER	CSW
CITY WATER	CW
FIRE LINE	F
FUEL OIL RETURN	FOR
FUEL OIL SUPPLY	FOS
FEEDWATER	FW
GAS	G
HOT WATER	HW
HIGH PRESSURE STEAM	HPS
LOW PRESSURE STEAM	LPS
HIGH PRESSURE CONDENSATE	HPCD
LOW PRESSURE CONDENSATE	LPCD
STORM SEWER	S
SANITARY SEWER	SA

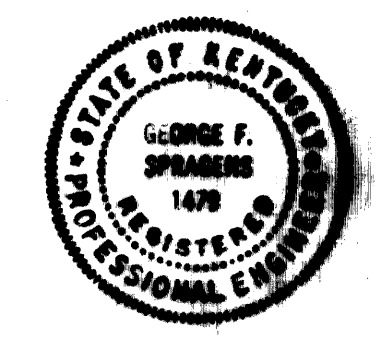
STEAM TRAP ASSEMBLY	
UTILITY MARKER	
ELBOW (PLAN, UP, DOWN)	
TEE (PLAN, UP, DOWN)	
GATE VALVE	
GLOBE VALVE	
HOSE COCK OR WALL HYDRANT	
MOTORIZED OR AUTOMATIC CONTROL VALVE	
PRESSURE REDUCING VALVE	
RELIEF VALVE	
CHECK VALVE	
STRAINER	
THERMOMETER	
PRESSURE GAUGE	
FLEXIBLE CONNECTOR IN PIPING	
GAS VALVE	
UNION	
FLOOR DRAIN	
OPEN RECEPTACLE	
CLEAN OUT	
FLUSH CLEAN OUT	
WALL HYDRANT	



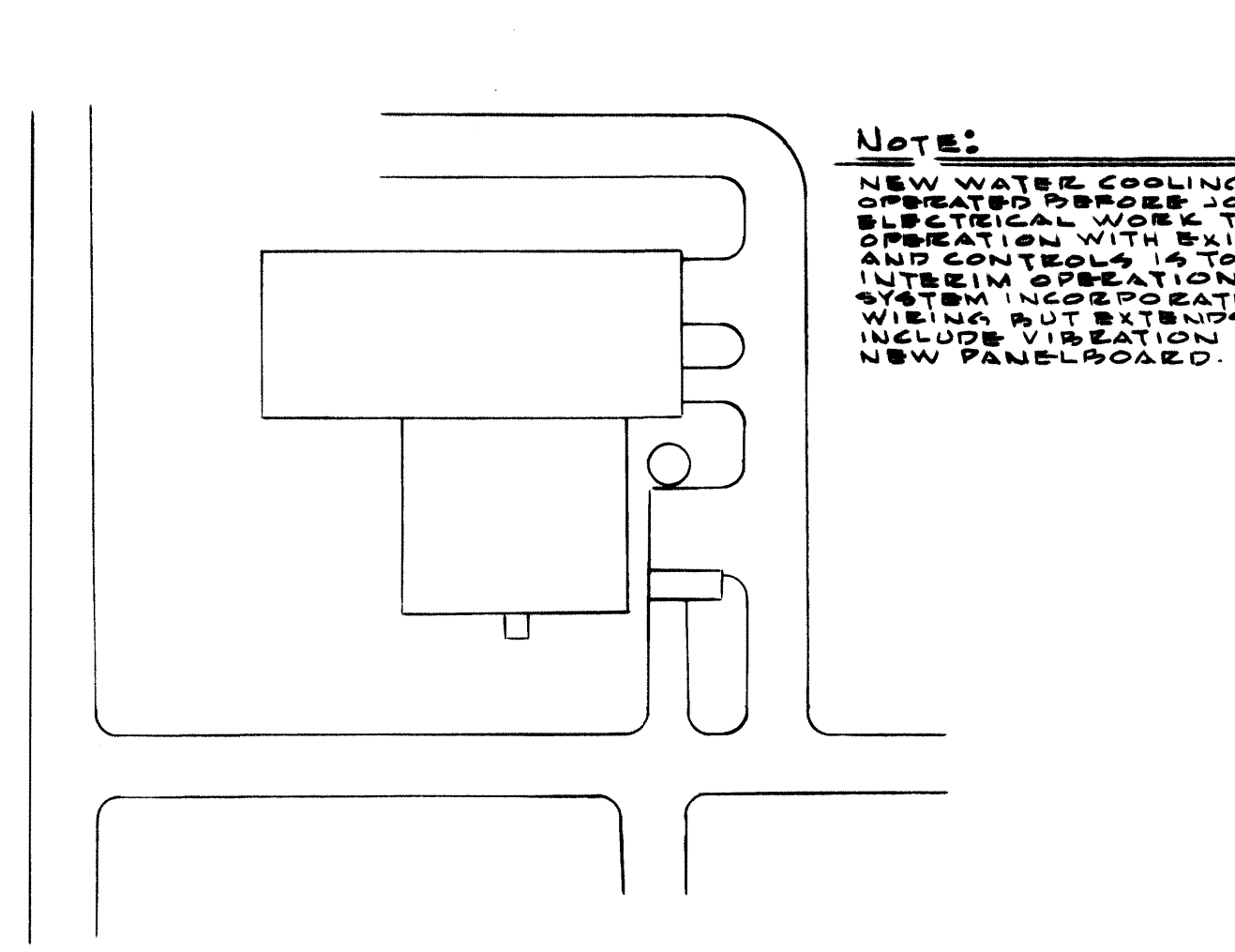
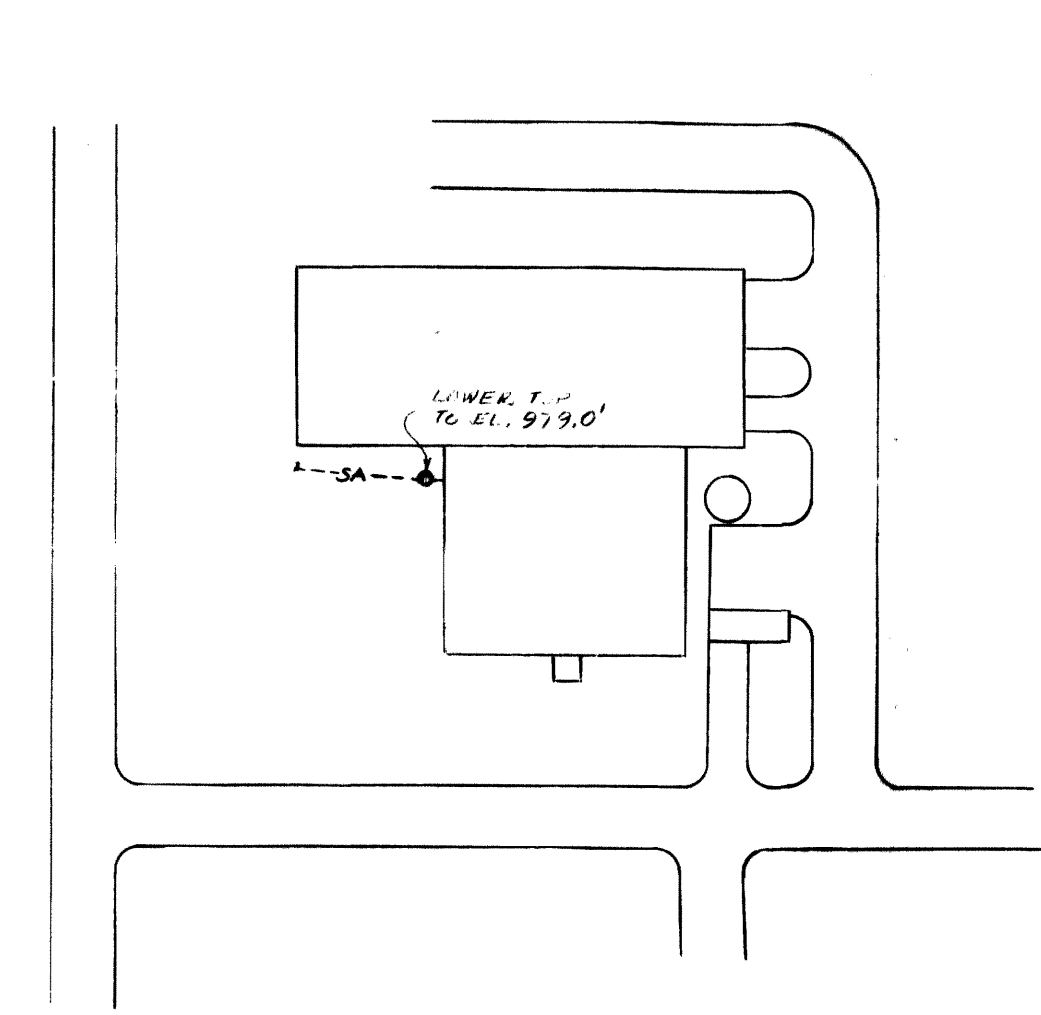
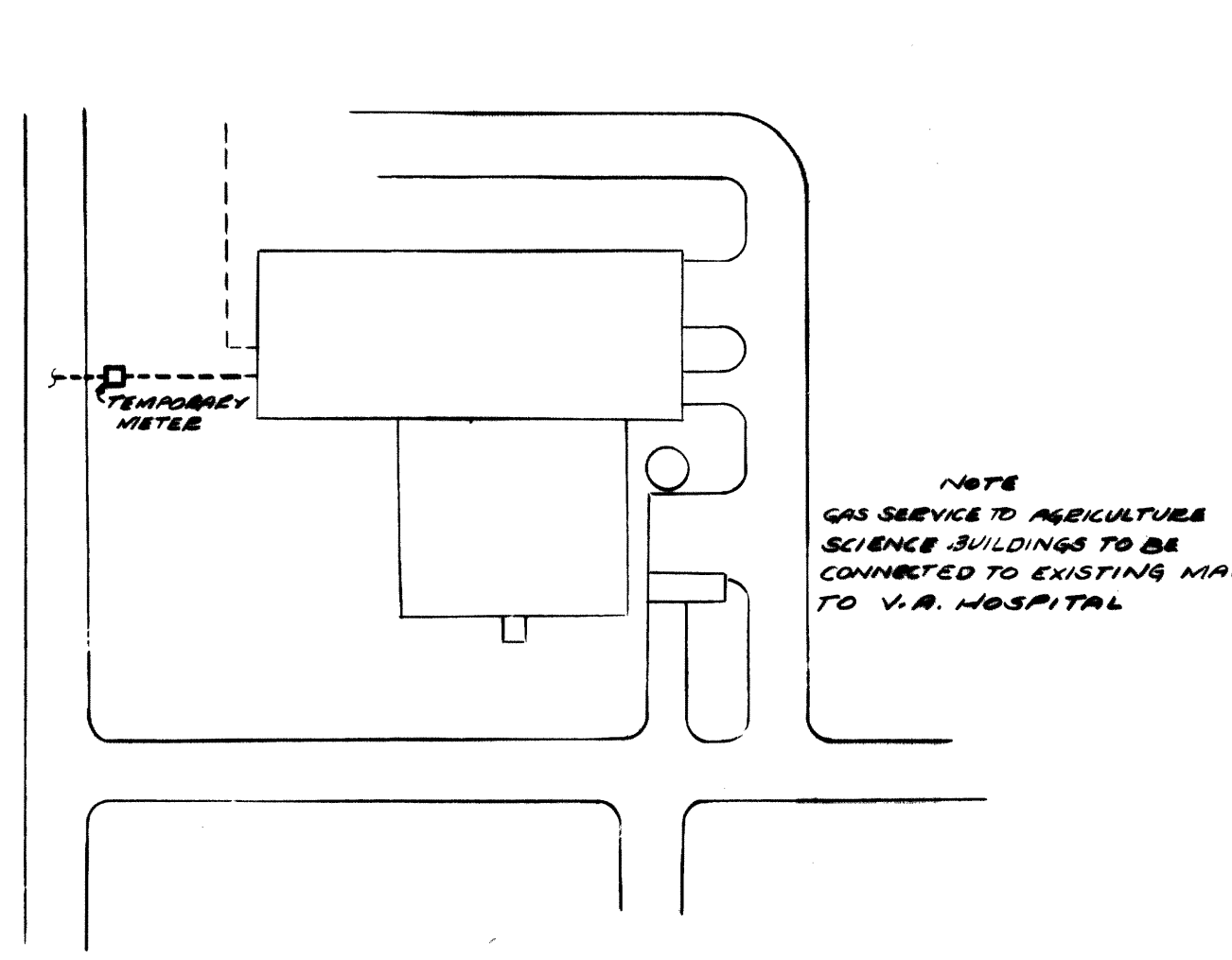
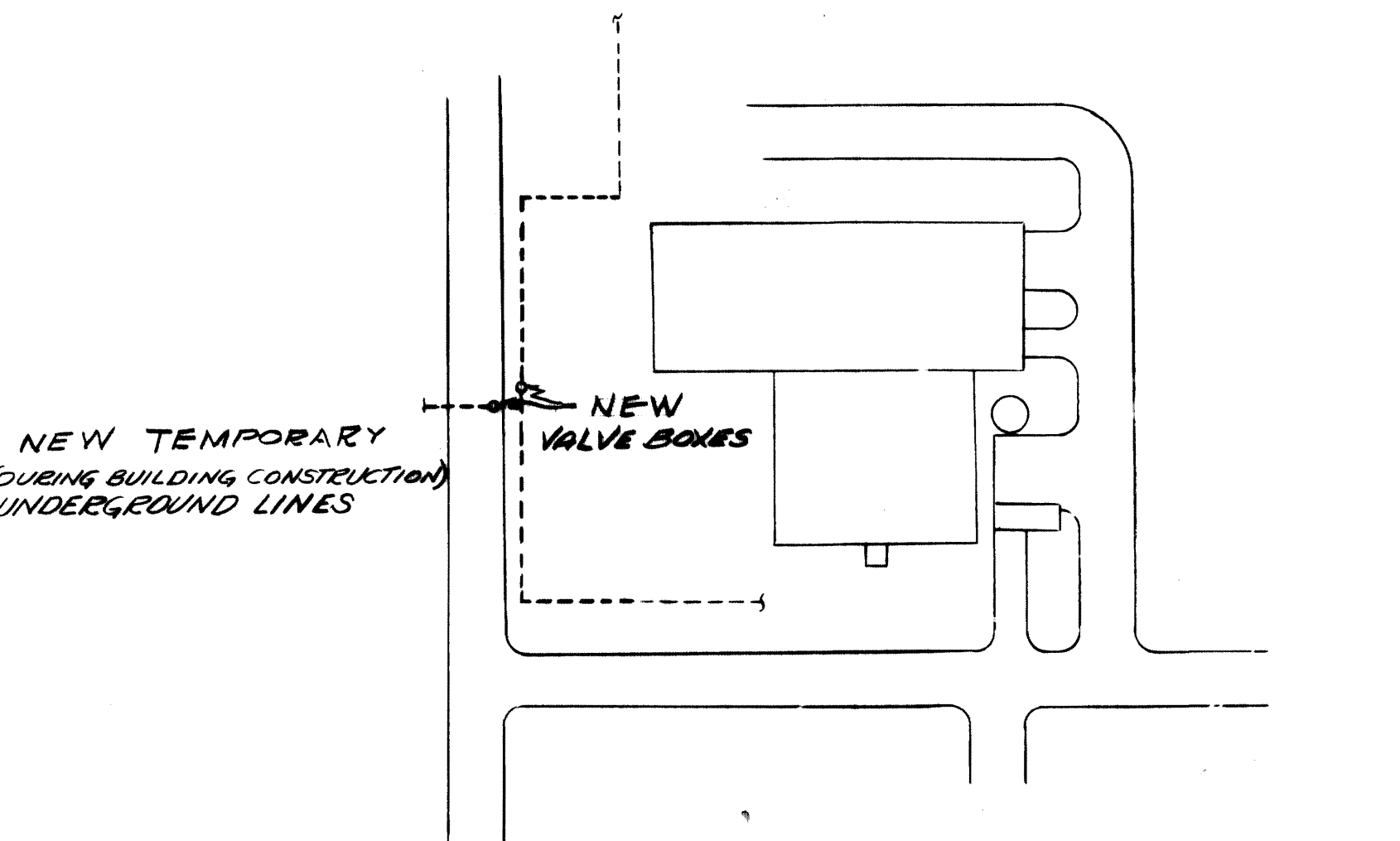
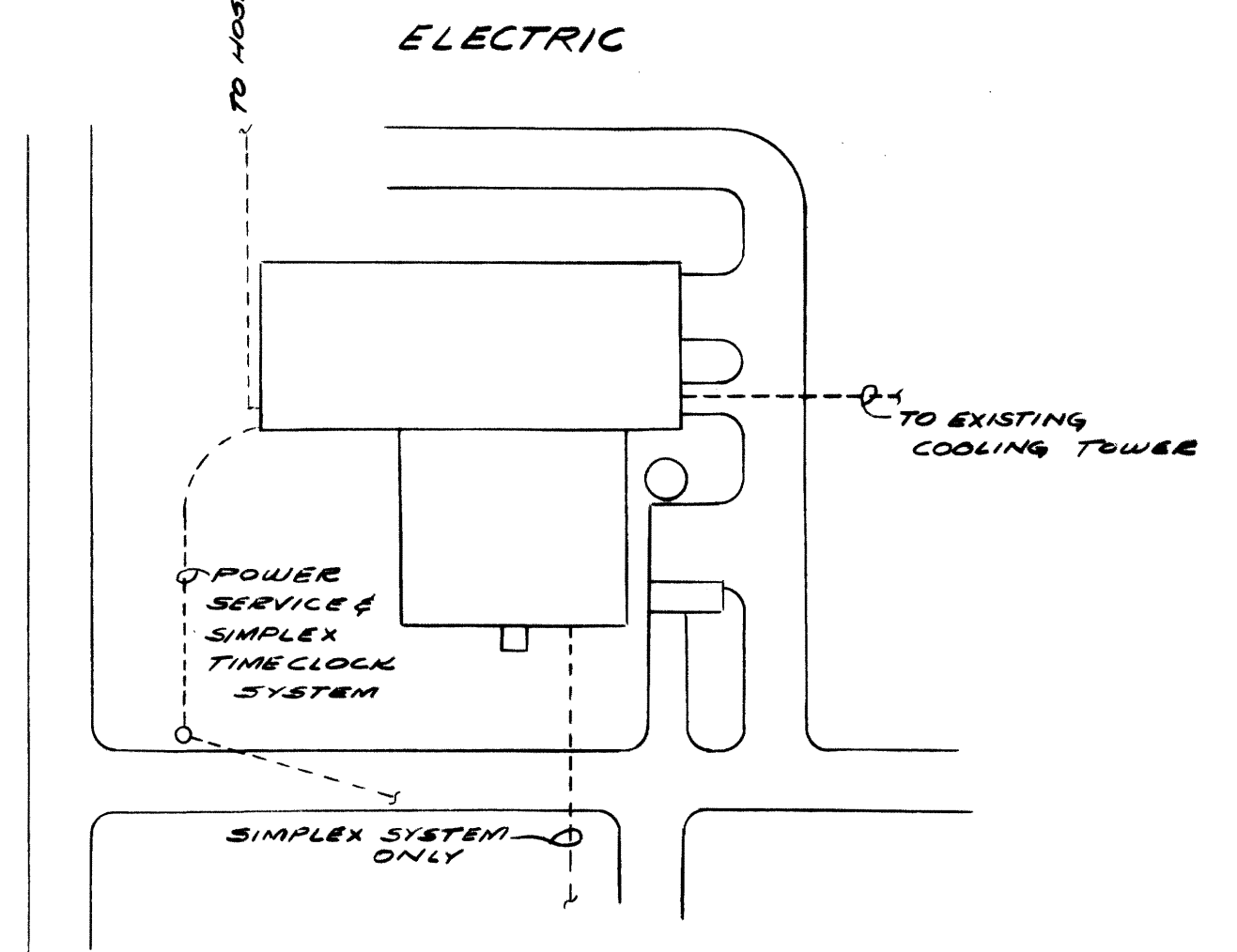
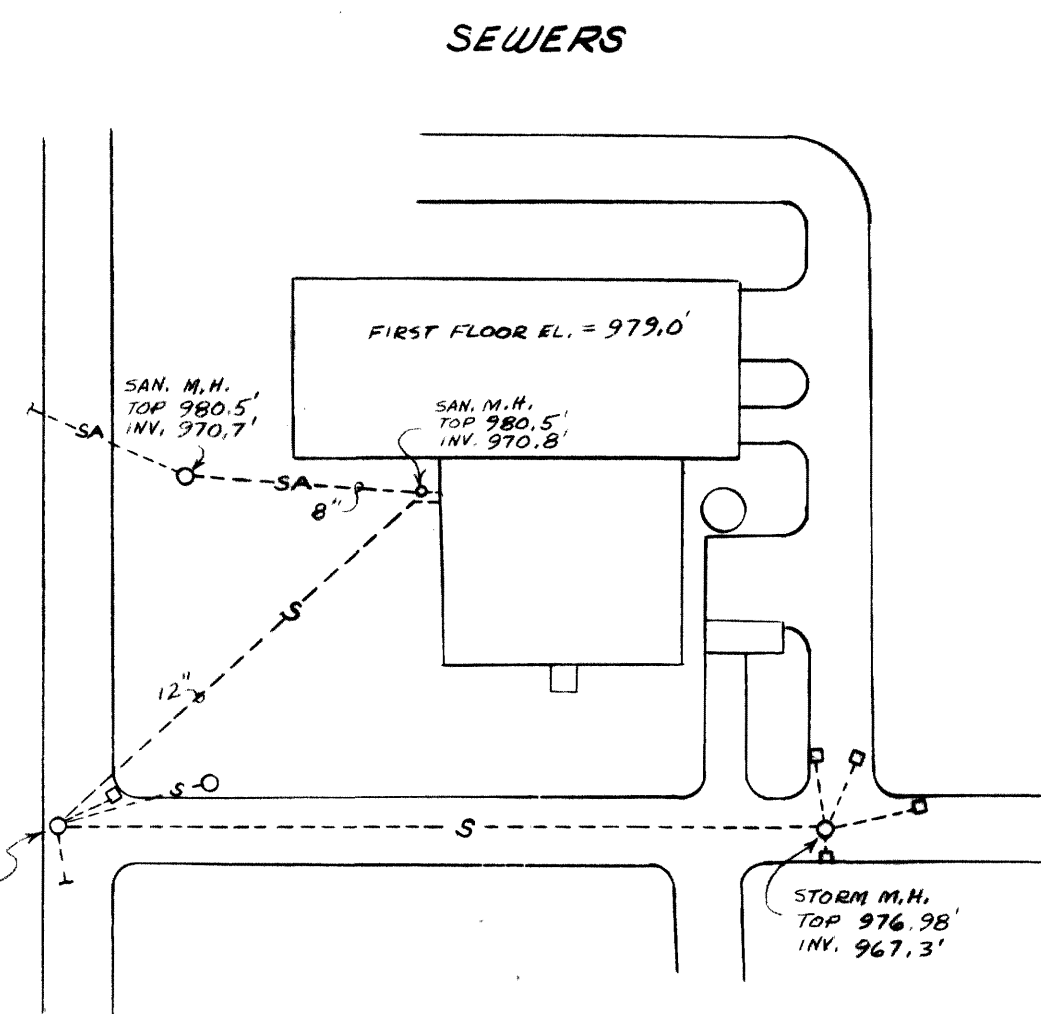
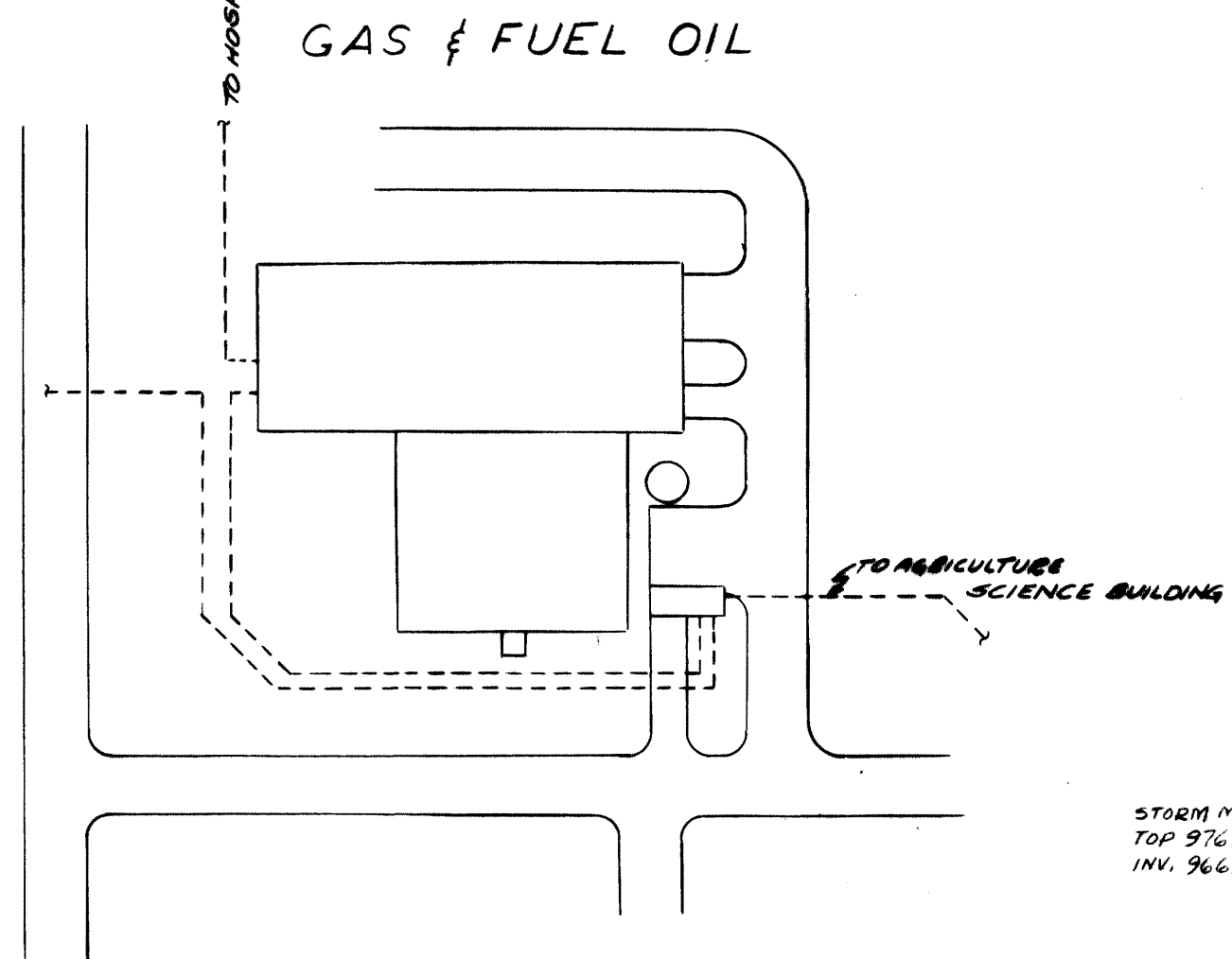
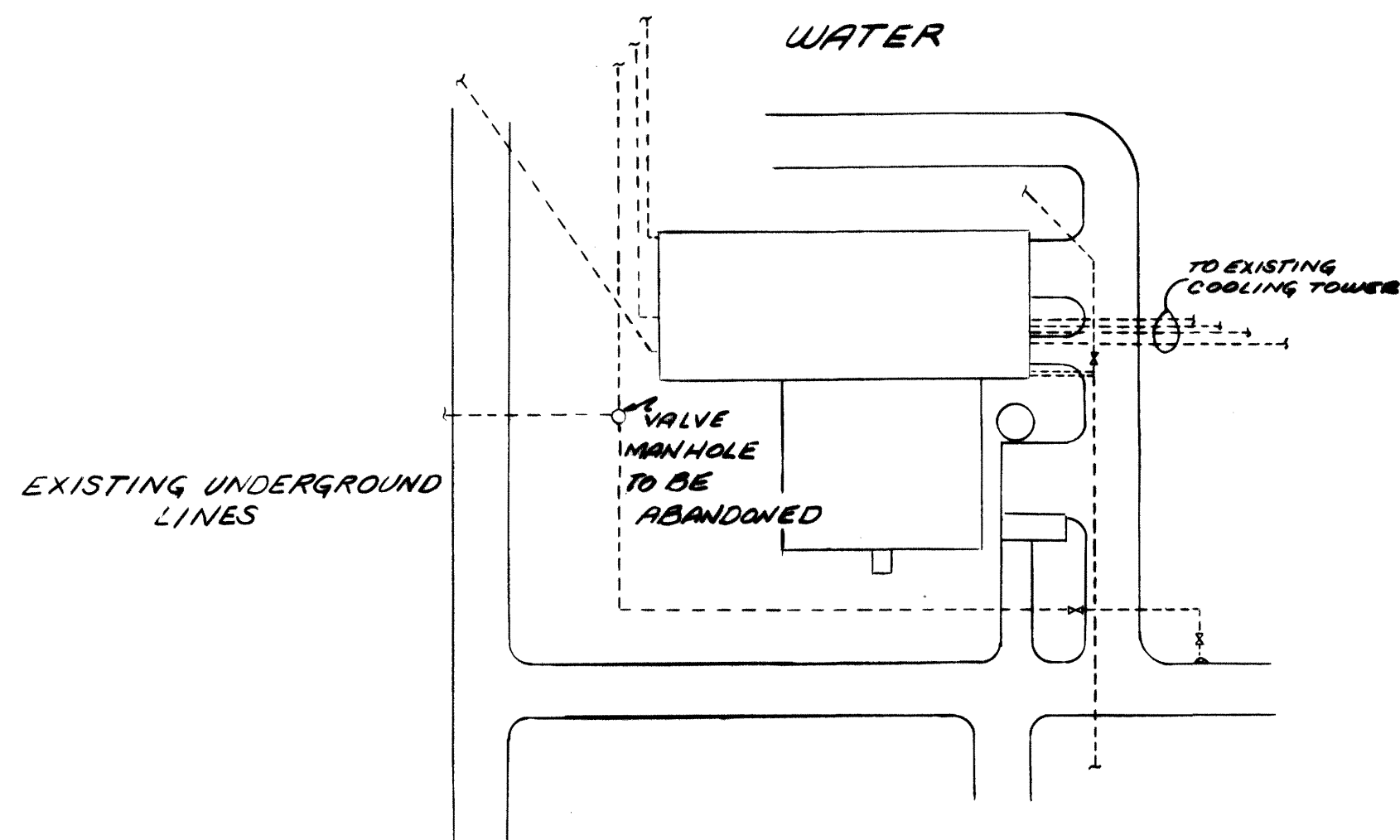
**NOTES**

- ▲ EXISTING 12" CONCRETE STORM SEWER TO REMAIN.
  - ▲ EXISTING 6" SANITARY SEWER TO REMAIN EXCEPT THAT TOP OF MANHOLE NEAR EXISTING BUILDING TO BE LOWERED 1.5' TO FIRST FLOOR ELEVATION AND COVER REPLACED WITH A BOLTED AND GASKETED TYPE SIMILAR TO NEEMAH R-1015-C.
  - ▲ WATER LINE MANHOLE (CONTAINING 2 VALVES) TO BE ABANDONED AND REPLACED BY TWO CAST-IRON VALVE BOXES SIMILAR TO CLOW F-2452. PORTIONS OF CONNECTING LINES TO BE RELOCATED, MOVING AWAY FROM AREA TO BE COVERED BY BUILDING ADDITION.
  - ▲ EXISTING ELECTRIC LINE TO REMAIN.
  - ▲ EXISTING GAS LINE FOR HOSPITAL TO BE TEMPORARILY ROUTED WITH TEMPORARY METER TO AVOID NEW BUILDING ADDITION AREA AND THEN RELOCATED FOLLOWING INSTALLATION OF NEW GAS SERVICE MAINS AND METER HOUSE. NEW GAS SERVICE WITH REDUCING VALVE AND METER FOR AGRICULTURE BUILDING TO BE CONNECTED TO MEDIUM PRESSURE LINE SERVING V.A. HOSPITAL.
  - ▲ EXISTING STORM DRAIN FROM WATER VALVE MANHOLE TO BE ABANDONED.
- SEE DRAWING M-2 FOR INDIVIDUAL SERVICE CHANGES.

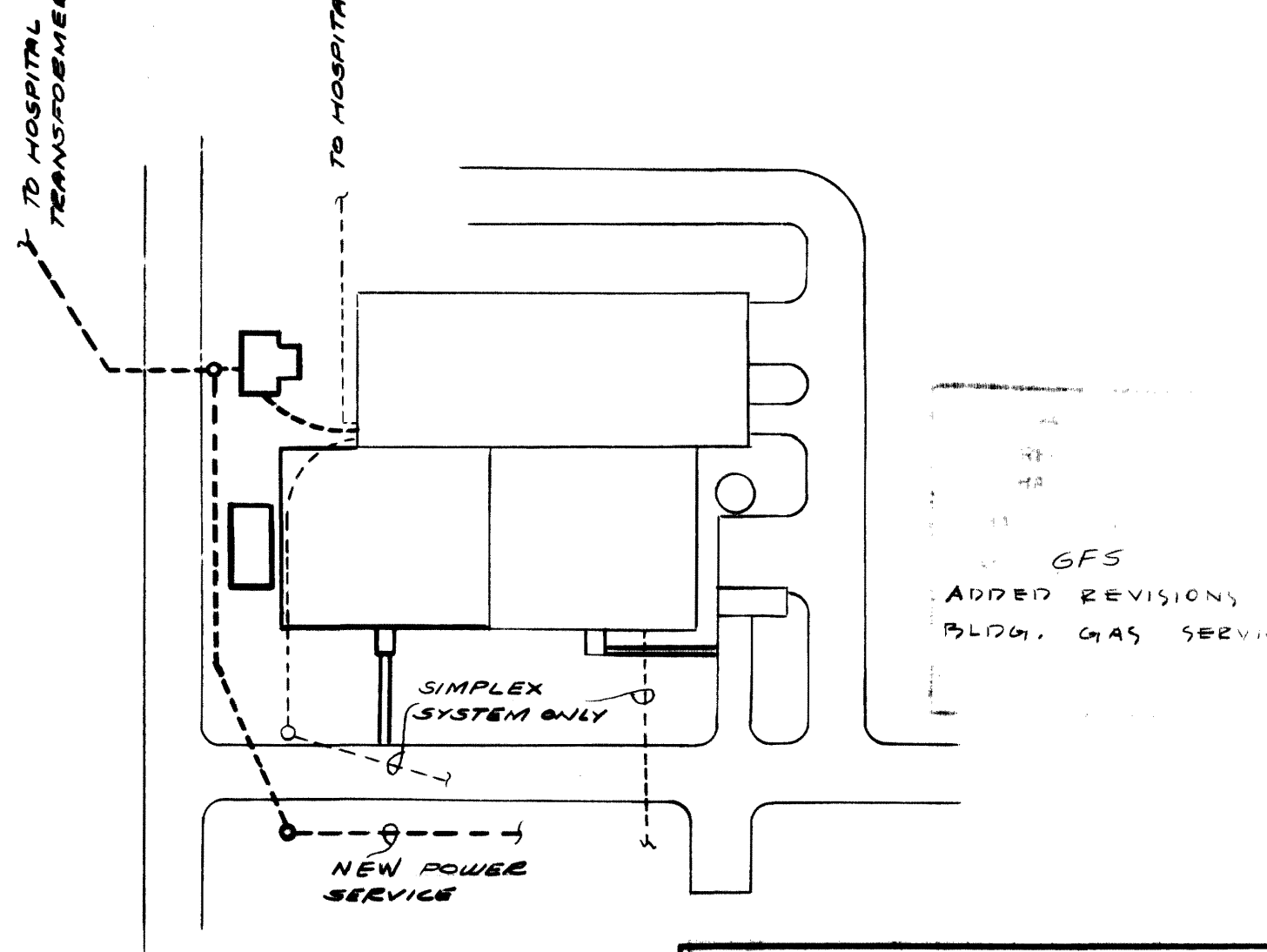
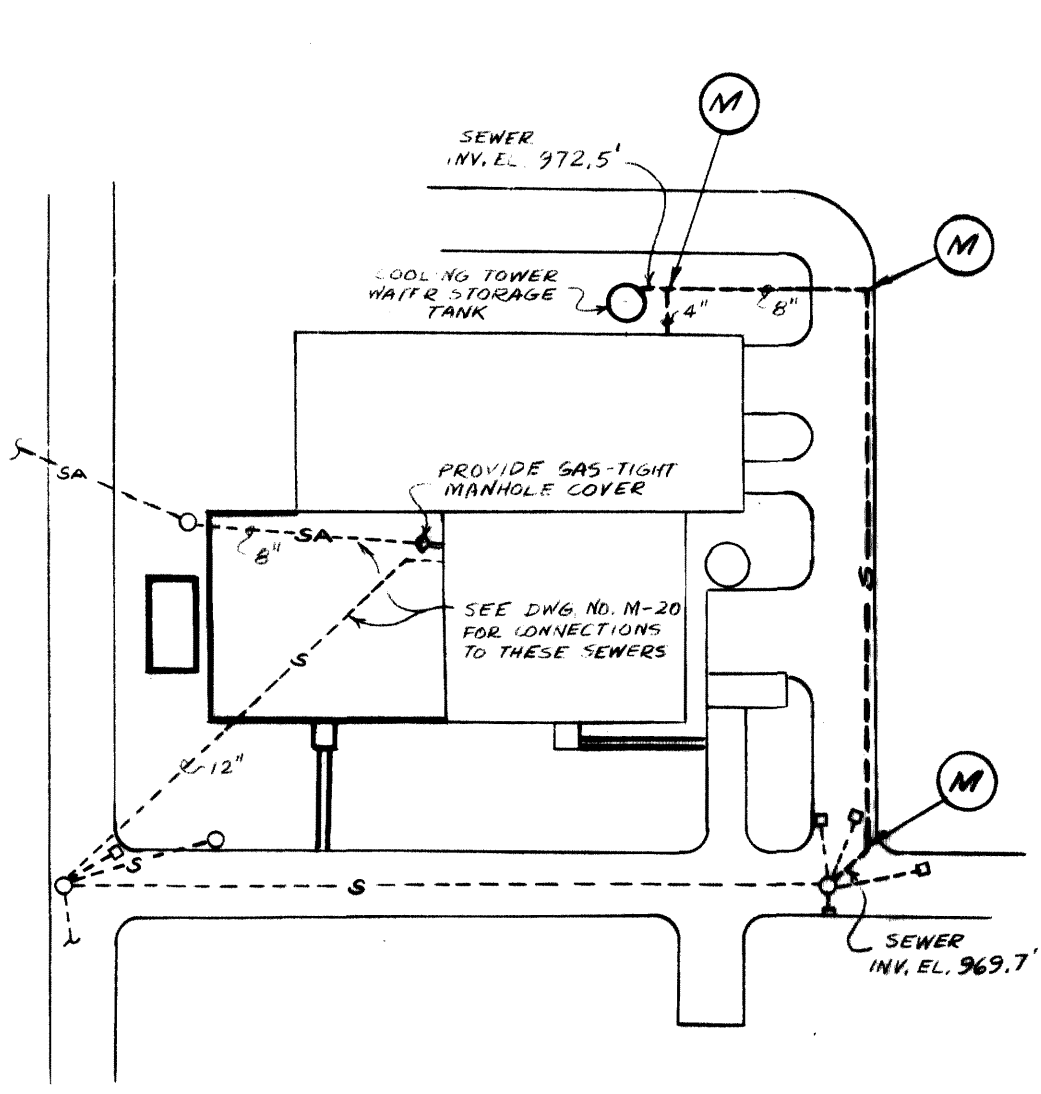
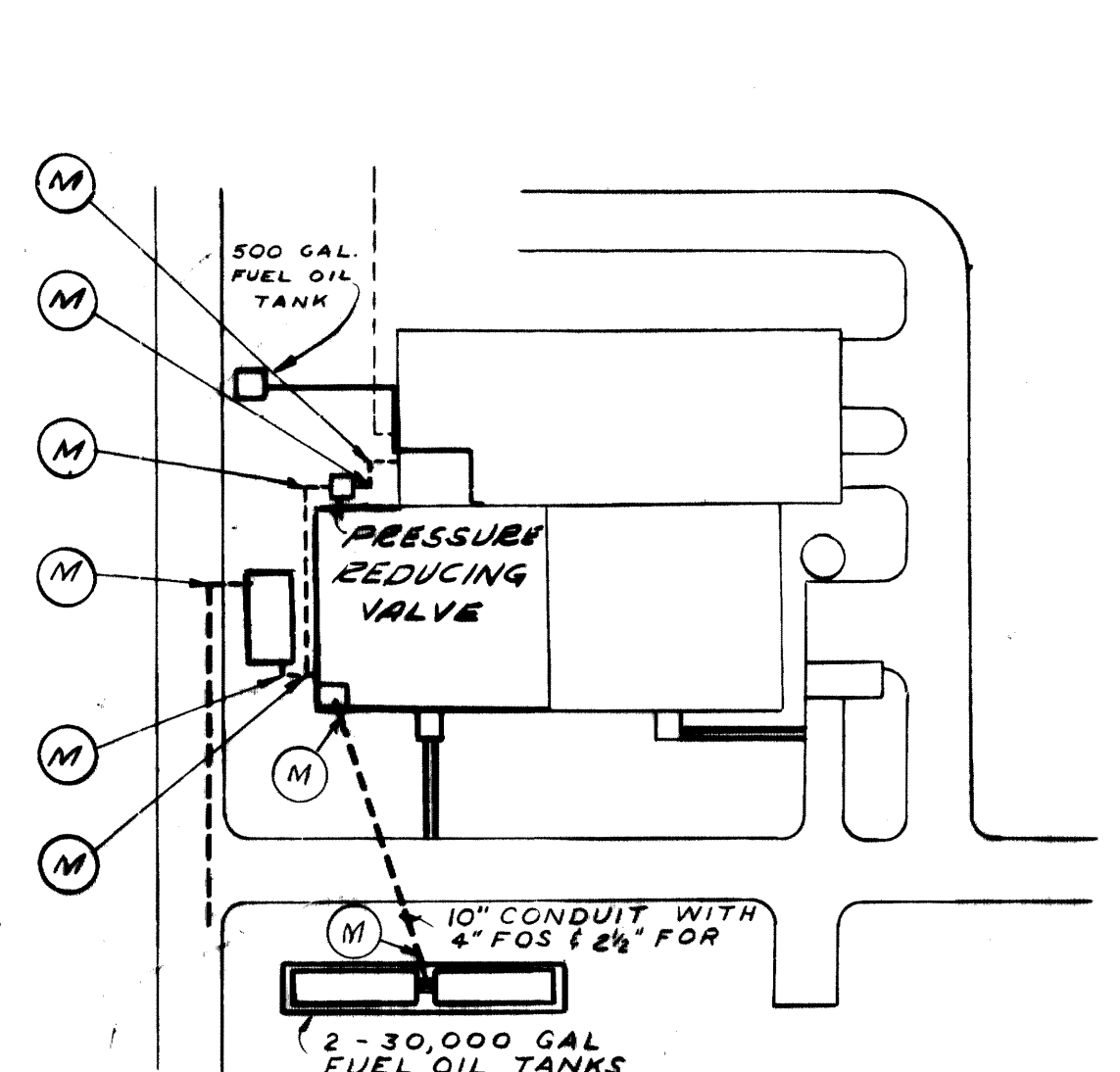
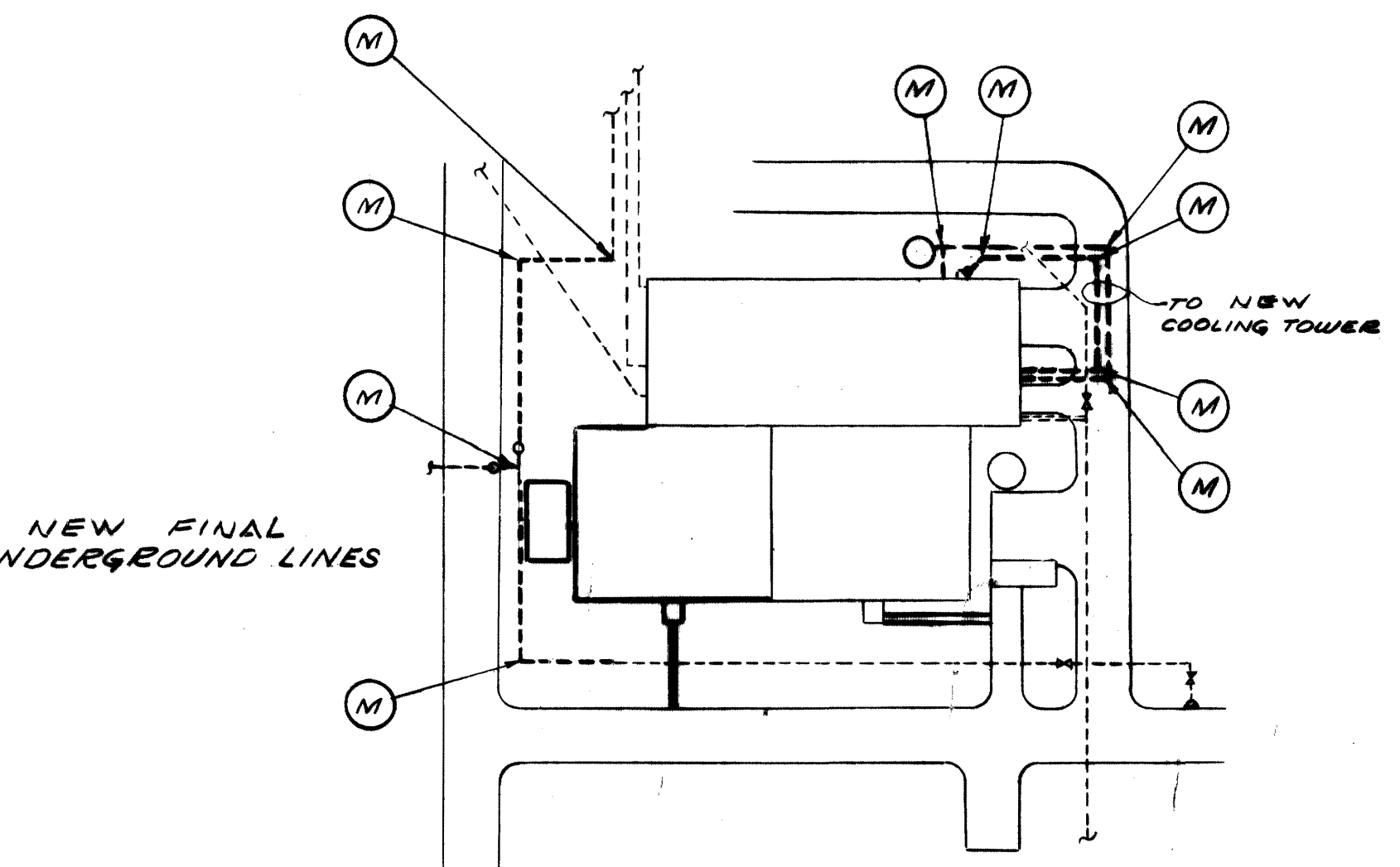
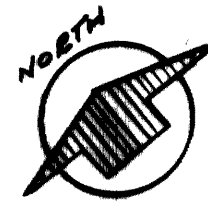
**AS-BUILT DRAWING**  
 REVISIONS MADE DURING CONSTRUCTION HAVE BEEN INCLUDED ON THIS DRAWING  
 MASON & HANGER - SILAS MASON CO., INC.  
 BY GFS DATE 1-10-72  
 NOTE: SEWER ALTERATION TO AVOID CAISSON.



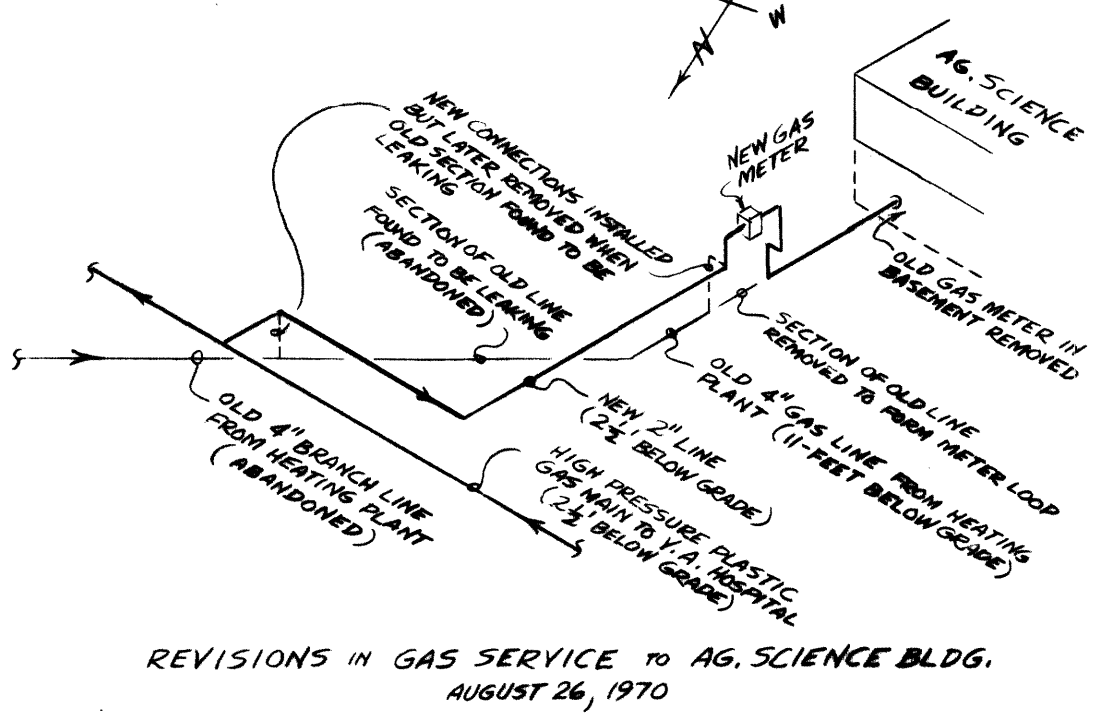
ADDITIONS & RENOVATIONS HEATING & COOLING PLANT — A. B. CHANDLER MEDICAL CENTER UNIVERSITY OF KENTUCKY LEXINGTON, KENTUCKY		
DRAWN BY J.K.-I.E.G.	<b>UNDERGROUND PIPING &amp; LEGEND</b>	DATE 5-28-70
TRACED BY I.E.G.	MASON & HANGER - SILAS MASON CO., INC. 1800 W. MAIN ST. LEXINGTON, KENTUCKY	SCALE 1" = 20'-0"
CHECKED BY GFS	COMMONWEALTH OF KENTUCKY DEPARTMENT OF FINANCE DIVISION OF ENGINEERING FRANKFORT, KENTUCKY	SPEC. NO. M-1
APPROVED BY <i>[Signature]</i>	DATE 5-28-70	
APPROVED BY <i>[Signature]</i>	DATE 6-1-70	



**NOTES:**  
 NEW WATER COOLING TOWER IS TO BE OPERATED PRIOR TO COMPLETION. ELECTRICAL WORK TO PERMIT THIS OPERATION WITH EXISTING WIRES AND CONTROLS IS TO BE PROVIDED FOR INTERIM OPERATION. FINAL ELECTRICAL SYSTEM INCORPORATES THIS INTERIM WIRING BUT EXTENDS THE SYSTEM TO INCLUDE VIBRATION INDICATORS ON NEW PANELBOARD.



GFS 1-10-72  
 ADDED REVISIONS TO AG-SCIENCE BLDG. GAS SERVICE

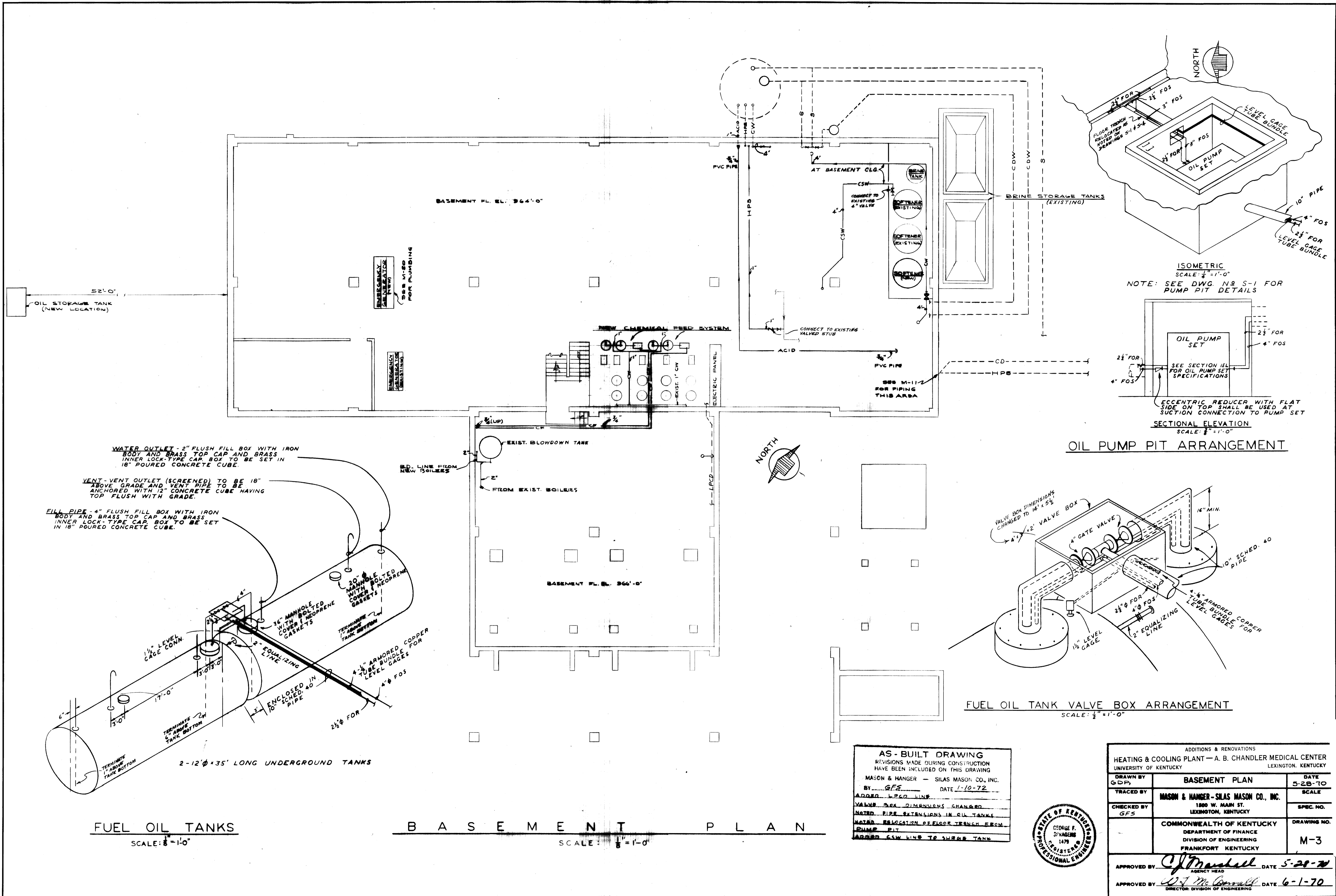


**NOTE**  
 UTILITY MARKERS AS DETAILED ON DRAWING NO. M-17 TO BE FURNISHED & INSTALLED AT LOCATIONS DESIGNATED

UTILITY MARKER LOCATIONS FOR ELECTRICAL LINES ARE SHOWN ON DRAWING NOS. E-1 & E-2



ADDITIONS & RENOVATIONS		
HEATING & COOLING PLANT - A. B. CHANDLER MEDICAL CENTER		
UNIVERSITY OF KENTUCKY LEXINGTON, KENTUCKY		
DRAWN BY	INDIVIDUAL UTILITIES UNDERGROUND LINES	DATE 5-28-70
TRACED BY	MASON & HANGER-SILAS MASON CO., INC. 1800 W. MAIN ST. LEXINGTON, KENTUCKY	SCALE NONE
CHECKED BY	GFS	SPEC. NO.
COMMONWEALTH OF KENTUCKY DEPARTMENT OF FINANCE DIVISION OF ENGINEERING FRANKFORT KENTUCKY		DRAWING NO. M-2
APPROVED BY	<i>G. McCall</i>	DATE 5-28-70
APPROVED BY	<i>G. McCall</i>	DATE 6-1-70



**FUEL OIL TANKS**  
SCALE: 1/8" = 1'-0"

**B A S E M E N T P L A N**  
SCALE: 1/8" = 1'-0"

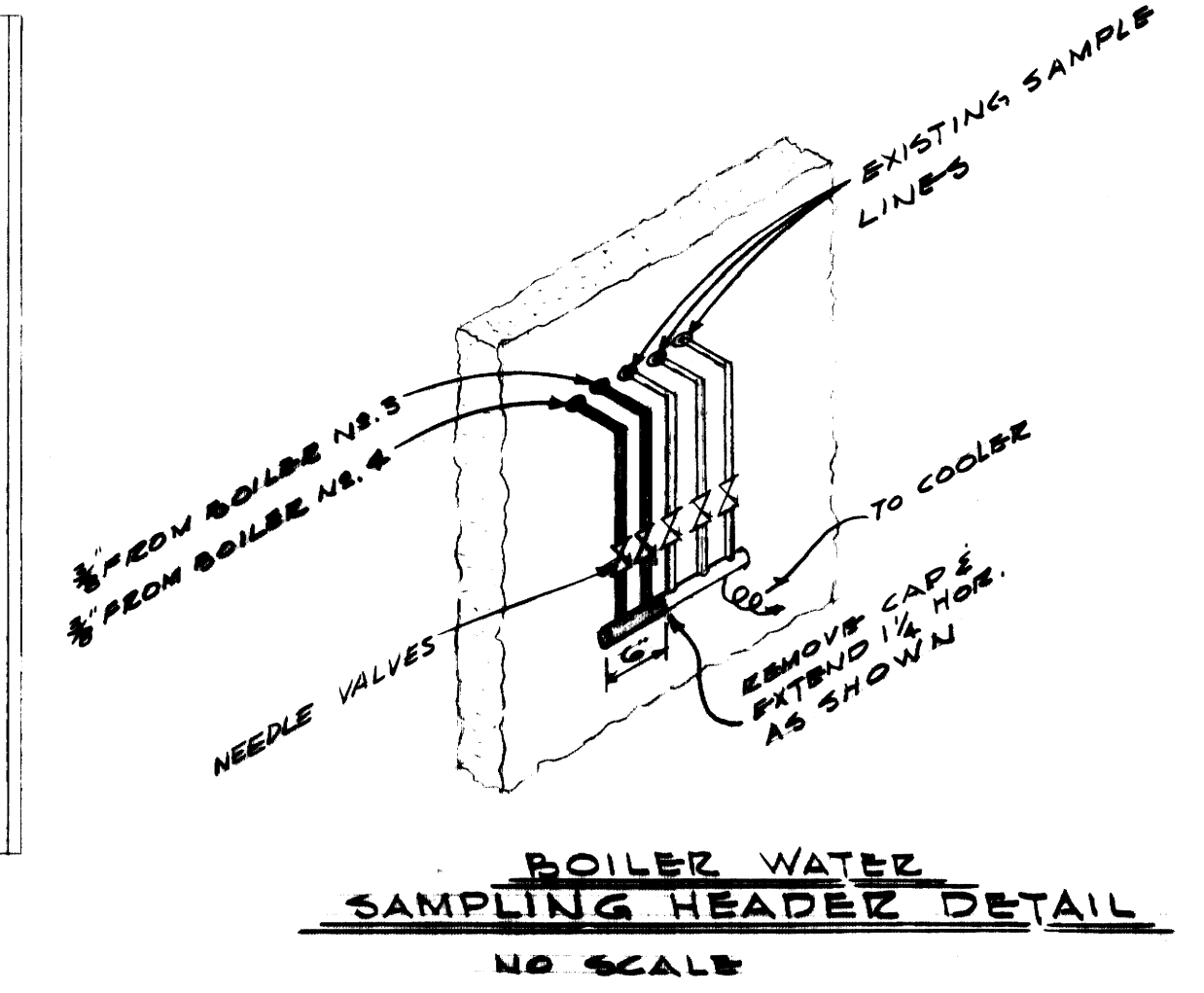
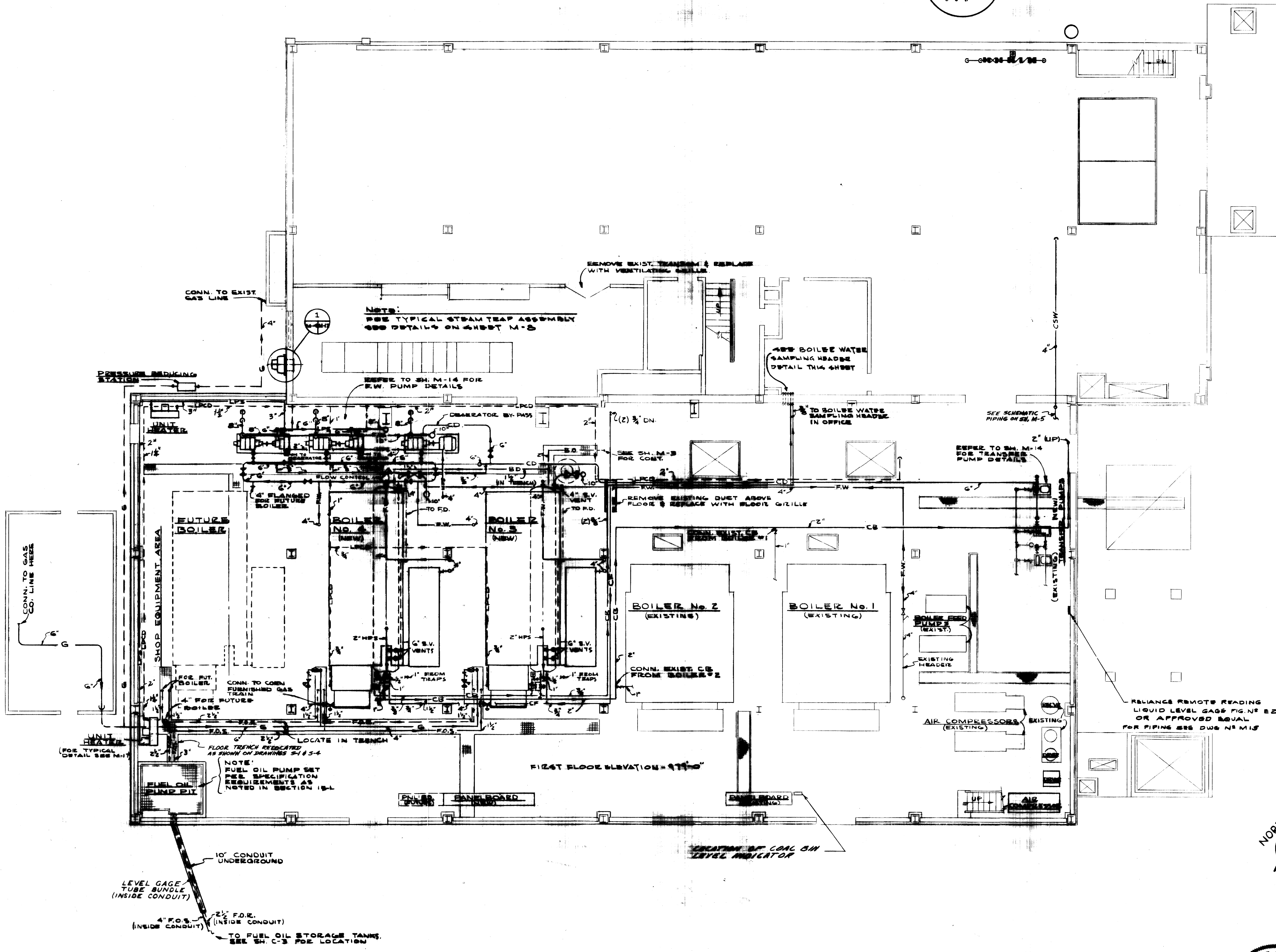
**OIL PUMP PIT ARRANGEMENT**  
SCALE: 1/2" = 1'-0"

**FUEL OIL TANK VALVE BOX ARRANGEMENT**  
SCALE: 1/2" = 1'-0"

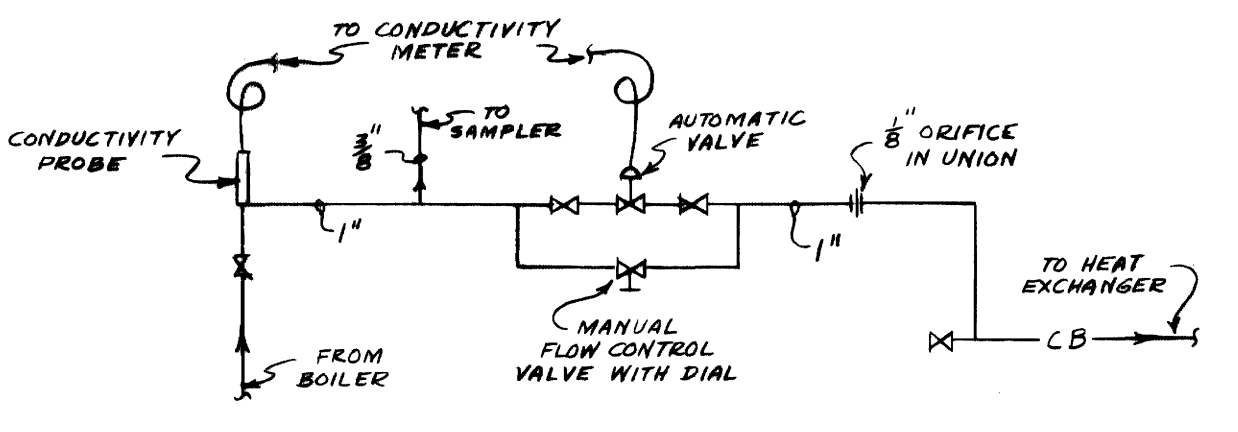
**AS - BUILT DRAWING**  
REVISIONS MADE DURING CONSTRUCTION  
HAVE BEEN INCLUDED ON THIS DRAWING  
MASON & HANGER - SILAS MASON CO., INC.  
BY: GFS DATE: 1-10-72  
ADDED L.P.C.D. LINE  
VALVE BOX DIMENSIONS CHANGED  
NOTED PIPE EXTENSIONS IN OIL TANKS  
NOTED RELOCATION OF FLOOR TRENCH FROM  
PUMP PIT  
ADDED C.W. LINE TO SHERB TANK



ADDITIONS & RENOVATIONS		
HEATING & COOLING PLANT - A. B. CHANDLER MEDICAL CENTER		
UNIVERSITY OF KENTUCKY		LEXINGTON, KENTUCKY
DRAWN BY GDP	<b>BASEMENT PLAN</b>	DATE 5-28-70
TRACED BY	<b>MASON &amp; HANGER - SILAS MASON CO., INC.</b>	SCALE
CHECKED BY GFS	1800 W. MAIN ST. LEXINGTON, KENTUCKY	SPEC. NO.
	<b>COMMONWEALTH OF KENTUCKY</b>	DRAWING NO.
	DEPARTMENT OF FINANCE DIVISION OF ENGINEERING FRANKFORT, KENTUCKY	<b>M-3</b>
APPROVED BY <i>C. J. Marshall</i>	AGENCY HEAD	DATE 5-28-70
APPROVED BY <i>D. J. McAnnally</i>	DIRECTOR, DIVISION OF ENGINEERING	DATE 6-1-70



- NOTES**
1. THE FOLLOWING EXISTING PIPING NEAR THE NORTHEAST WALL OF THE BOILER HOUSE SHALL BE RELOCATED BY THIS CONTRACTOR TO AVOID INTERFERENCE WITH NEW STEEL COLUMNS WHICH WILL SUPPORT THE NEW WATER COOLING TOWER.
  2. THE 3/4" LINE (WALL MOUNTED APPROX. 3' ABOVE FLOOR) SHALL BE OFFSET TO AVOID THE ONE COLUMN WHERE INTERFERENCE WOULD OTHERWISE OCCUR.
  3. THE 1" (BLACK) INSULATED HIGH-PRESSURE CONDENSATE LINE (HUNG FROM CEILING) SHALL BE MOVED TO THE SOUTHWEST SIDE OF THE NEARBY (ORANGE) STEAM LINE.
  4. THE 1/2" (DARK GREEN) INSULATED CONDENSATE RETURN LINE (HUNG FROM CEILING) SHALL BE OFFSET TO AVOID THE ONE COLUMN WHERE INTERFERENCE WOULD OTHERWISE OCCUR. ONE HANGER SUPPORT WITH A 1/2" ROD FOR THIS LINE AND TWO 3/4" RODS FOR A ROLLER HANGER UNDER THE STEAM LINE MUST ALSO BE RELOCATED.
  5. HOSE CABINET AND PIPING TO BE RELOCATED IN BASEMENT, ARE SHOWN ON DRAWING M-20.
  6. HIGH PRESSURE TRAP DISCHARGE LINES TO BE RETURNED TO HIGH PRESSURE TRAP RETURN CONNECTION AT DEAERATOR, SEE SH. M-5 & M-8.



**SCHEMATIC PIPING DIAGRAM OF AUTOMATIC CONTROL FOR CONTINUOUS BLOWDOWN**

**AS-BUILT DRAWING**  
 REVISIONS MADE DURING CONSTRUCTION HAVE BEEN INCLUDED ON THIS DRAWING  
 MASON & HANGER — SILAS MASON CO., INC.  
 BY GFS DATE 1-10-72  
 RELOCATED SURGE TANK LIQUID LEVEL GAUGE  
 RELOCATED COAL LEVEL INDICATOR  
 NOTED RELOCATION OF FLOOR TRENCH AT FUEL PUMP PIT  
 ADD 4" CSW TO SURGE TANK  
 CORRECTED LPOD LINE ROUTING  
 ADDED CONTINUOUS BLOWDOWN CONTROL SCHEMATIC

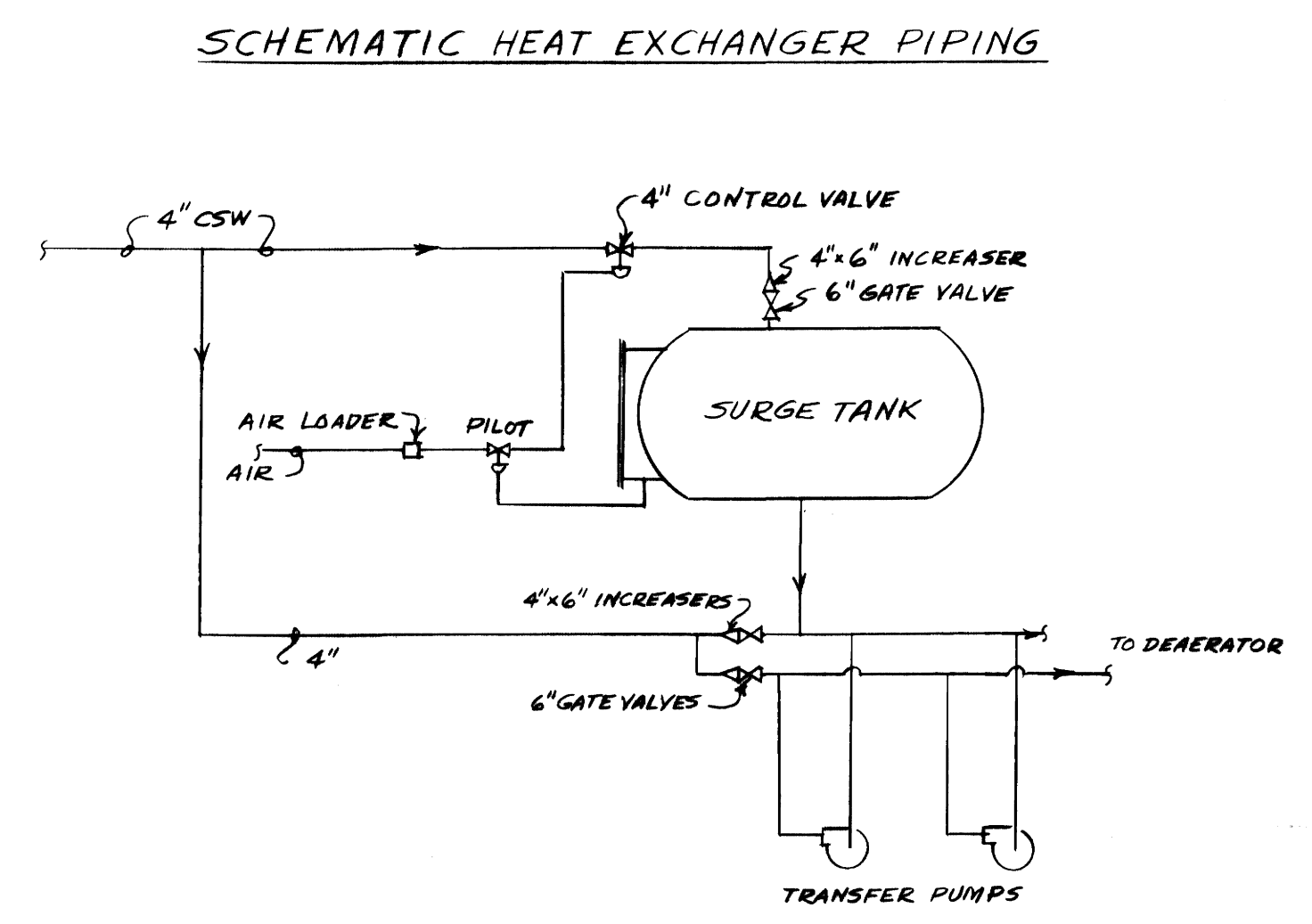
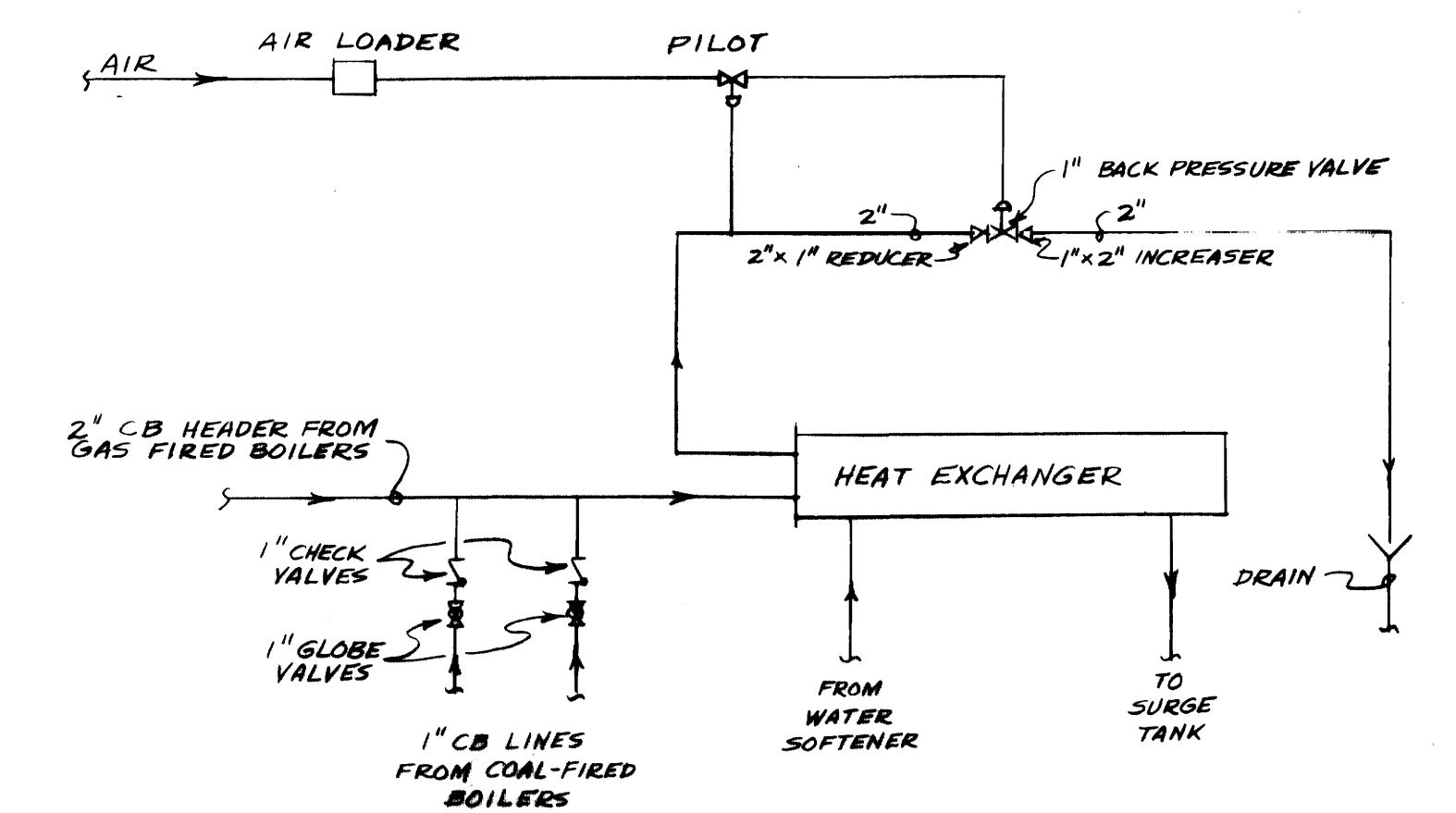
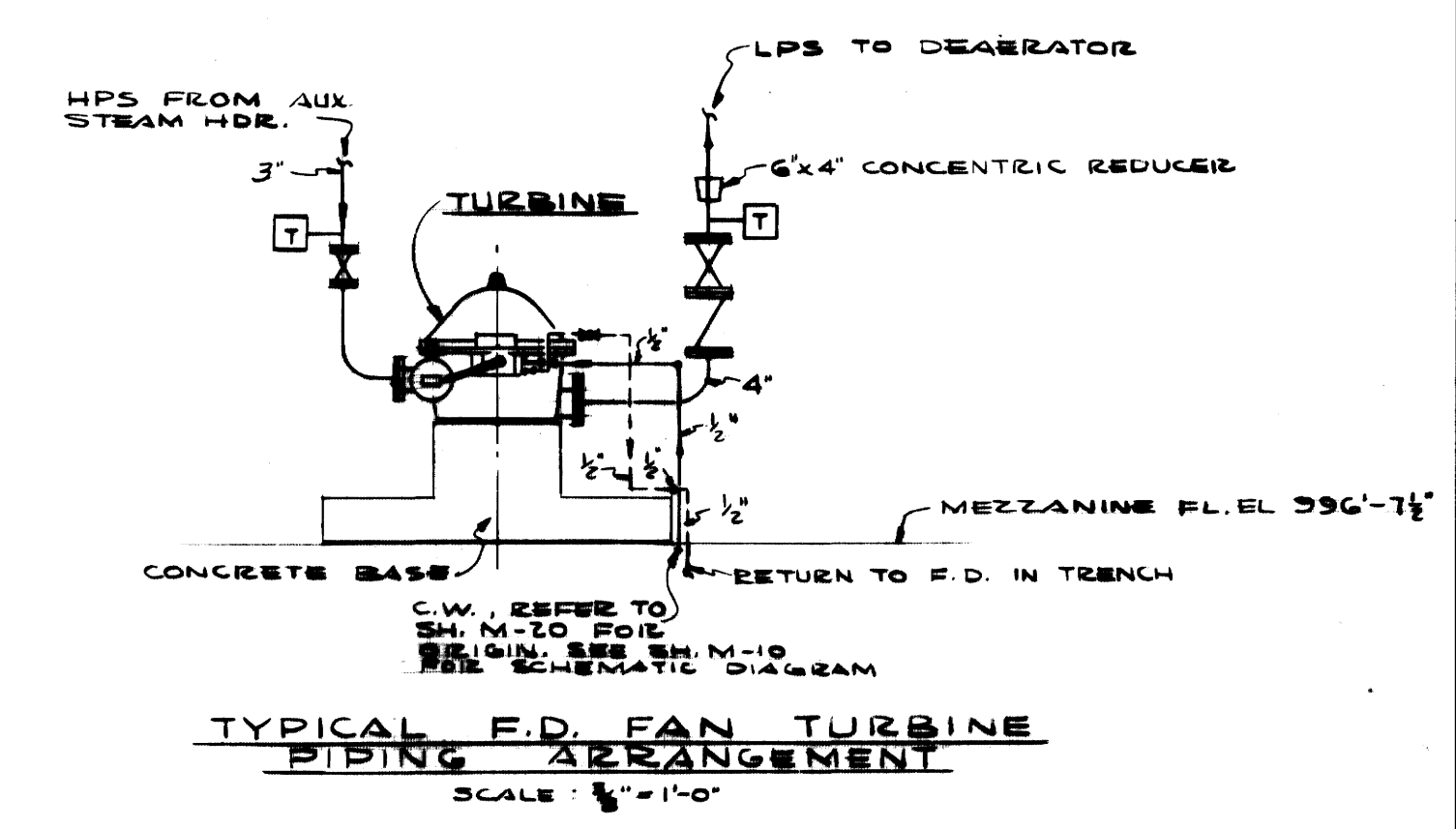
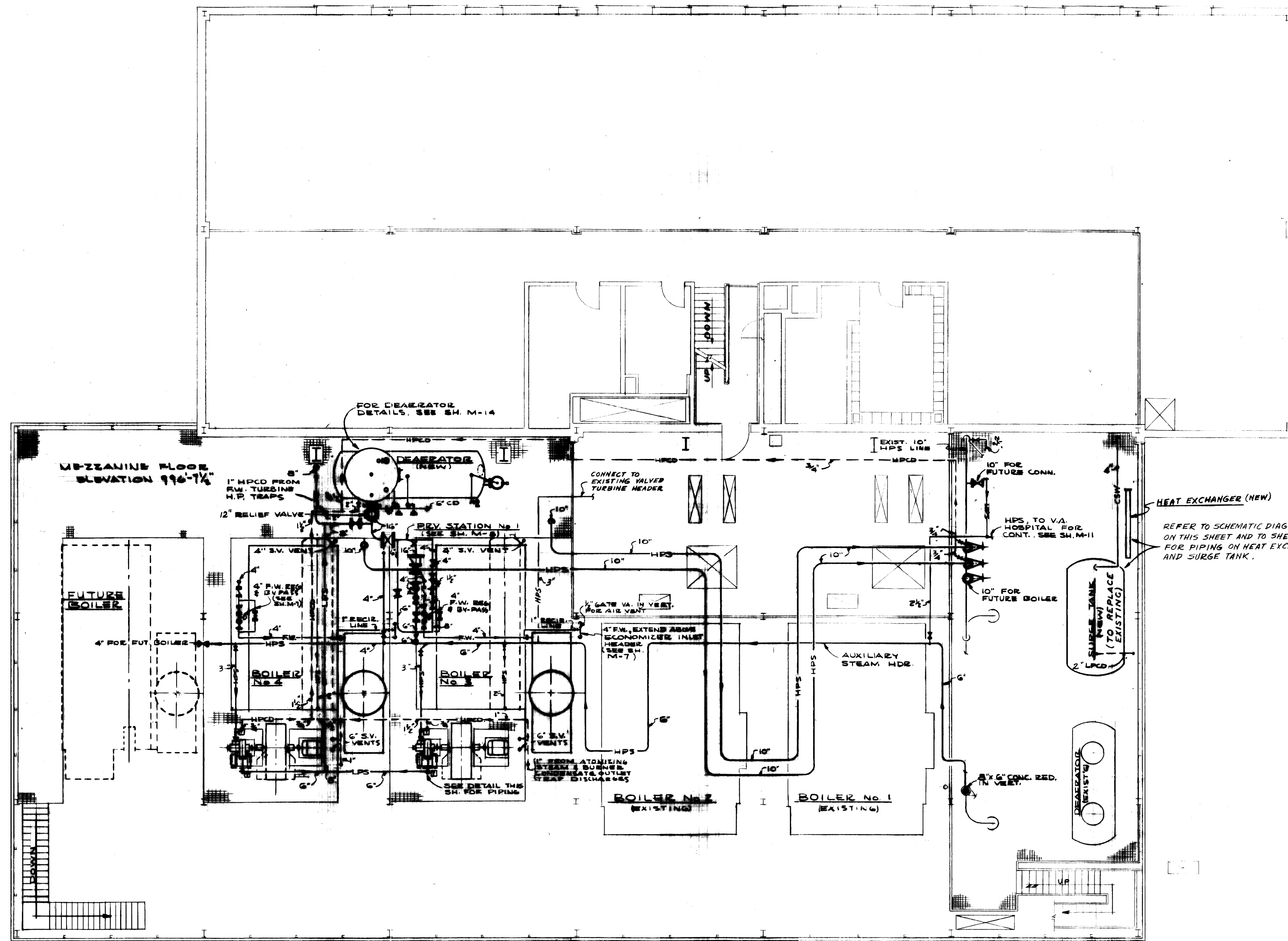
10' CONDUIT UNDERGROUND  
 LEVEL GAGE TUBE BUNDLE (INSIDE CONDUIT)  
 4" F.O.S. (INSIDE CONDUIT) TO FUEL OIL STORAGE TANKS. SEE SH. C-3 FOR LOCATION  
 2" F.O.S. (INSIDE CONDUIT)

**F I R S T F L O O R P L A N**

SCALE: 1/8" = 1'-0"

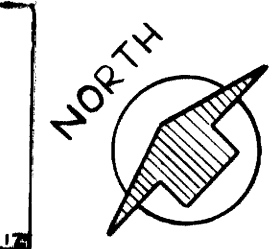


ADDITIONS & RENOVATIONS		
HEATING & COOLING PLANT — A. B. CHANDLER MEDICAL CENTER		
UNIVERSITY OF KENTUCKY LEXINGTON, KENTUCKY		
DRAWN BY	<b>FIRST FLOOR PLAN</b>	DATE <b>5-28-70</b>
TRACED BY	<b>MASON &amp; HANGER-SILAS MASON CO., INC.</b>	SCALE
CHECKED BY	1800 W. MAIN ST. LEXINGTON, KENTUCKY	SPEC. NO.
COMMONWEALTH OF KENTUCKY		DRAWING NO.
DEPARTMENT OF FINANCE		<b>M-4</b>
DIVISION OF ENGINEERING		
FRANKFORT KENTUCKY		
APPROVED BY	<i>[Signature]</i>	DATE <b>5-28-70</b>
APPROVED BY	<i>[Signature]</i>	DATE <b>6-1-70</b>



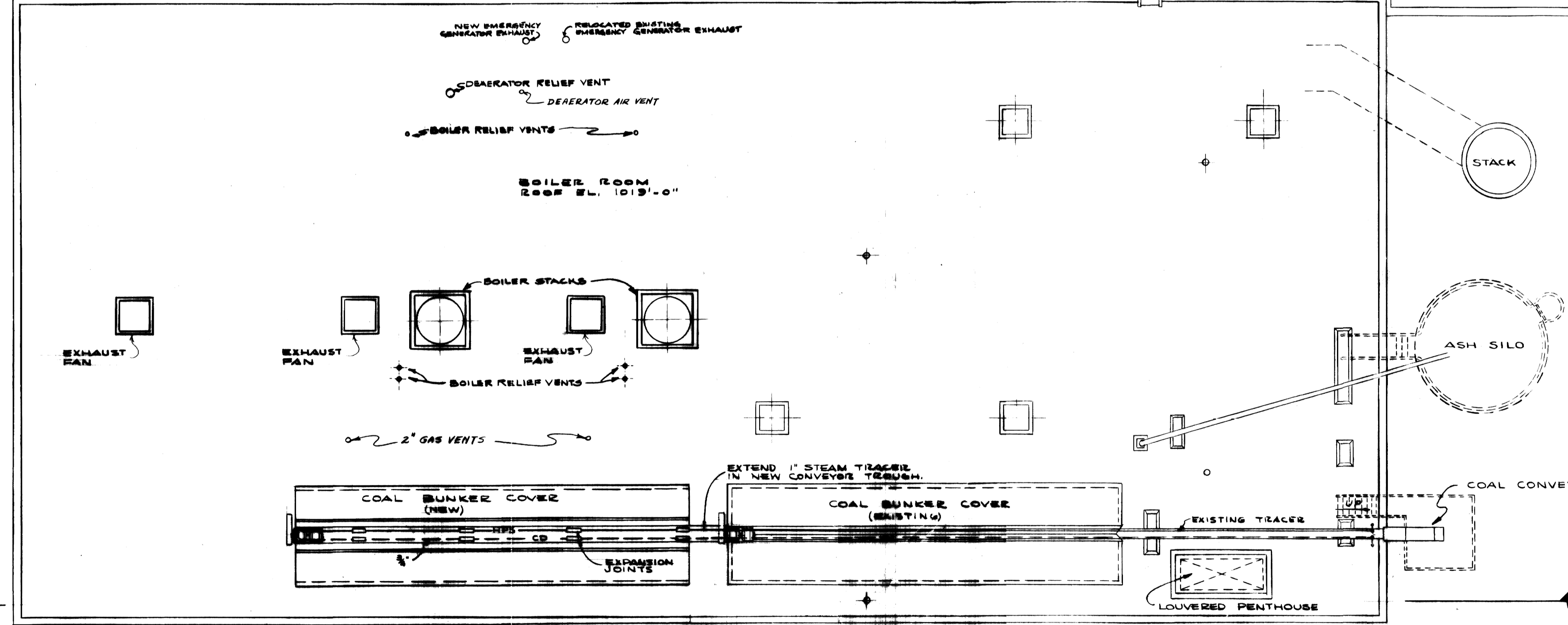
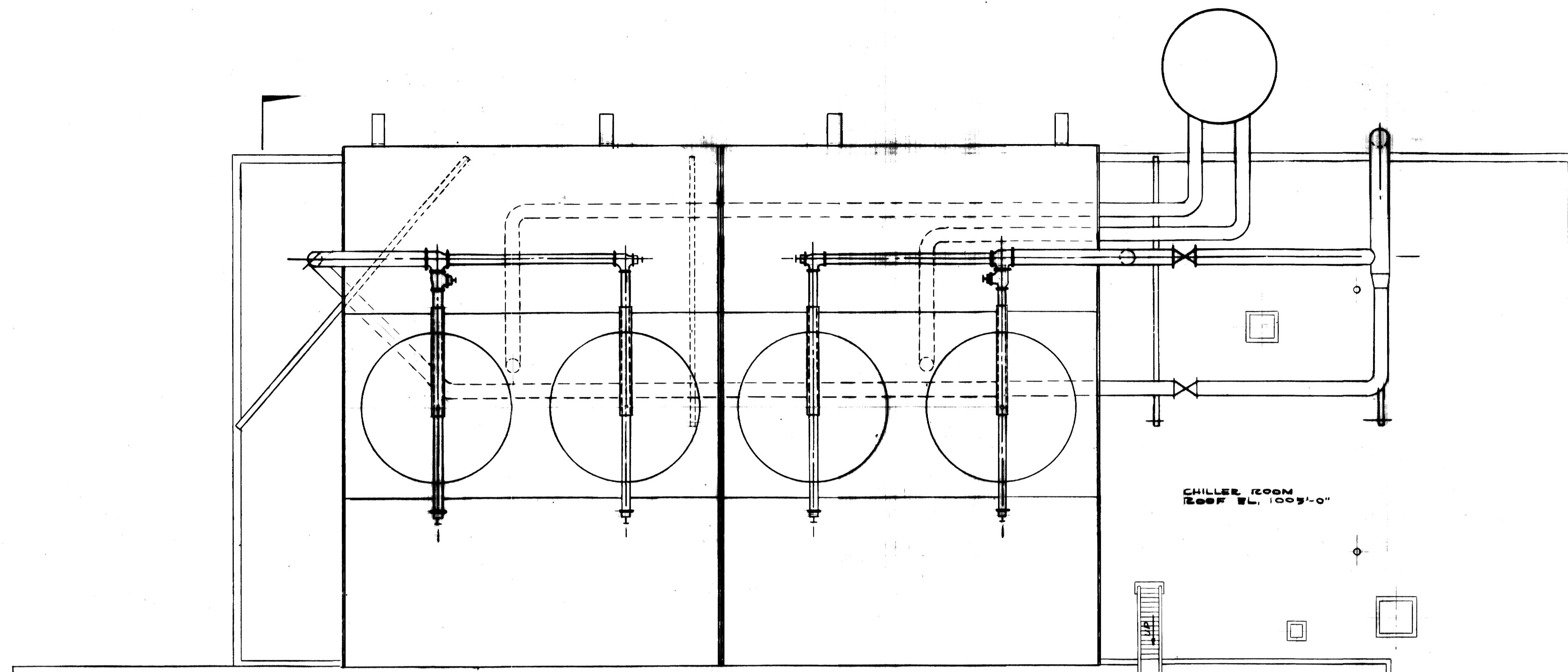
MEZZANINE FLOOR PLAN  
SCALE: 1/8" = 1'-0"

AS-BUILT DRAWING  
REVISIONS MADE DURING CONSTRUCTION  
HAVE BEEN INCLUDED ON THIS DRAWING  
MASON & HANGER - SILAS MASON CO., INC.  
BY GFS DATE 1-10-72  
CHANGED DEAERATOR RELIEF VALVE FROM 10" TO 12"  
ADDED SCHEMATIC PIPING DIAGRAMS  
ADDED 4" CSW TO SURGE TANK  
ADDED 5" HPS BETWEEN AUX. HEADERS  
CHANGED HPS LINE SIZE TO FAN TURBINE (2" TO 3")



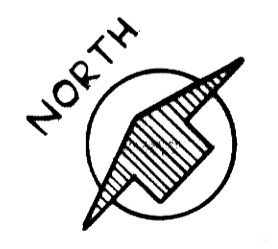
ADDITIONS & RENOVATIONS HEATING & COOLING PLANT - A. B. CHANDLER MEDICAL CENTER UNIVERSITY OF KENTUCKY LEXINGTON, KENTUCKY		
DRAWN BY GDP/TMS	MEZZANINE FLOOR PLAN	DATE 5-28-70
TRACED BY MASON & HANGER - SILAS MASON CO., INC. 1800 W. MAIN ST. LEXINGTON, KENTUCKY		SCALE 1/8" = 1'-0"
CHECKED BY GFS	COMMONWEALTH OF KENTUCKY DEPARTMENT OF FINANCE DIVISION OF ENGINEERING FRANKFORT KENTUCKY	SPEC. NO. M-5
APPROVED BY W. J. McAnnally DIRECTOR, DIVISION OF ENGINEERING	DATE 5-28-70	DATE 6-1-70



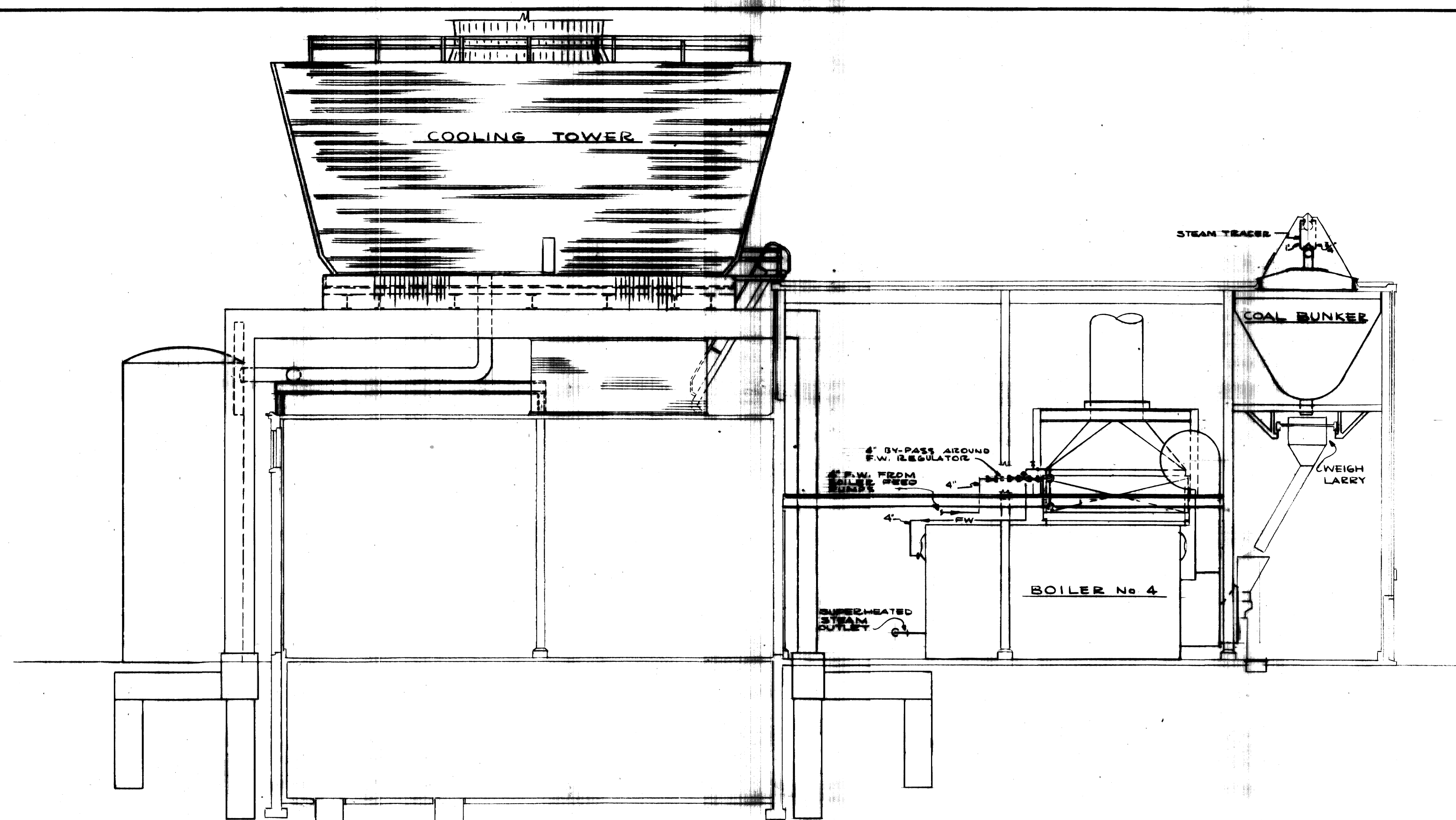


R O O F P L A N  
SCALE: 1/8" = 1'-0"

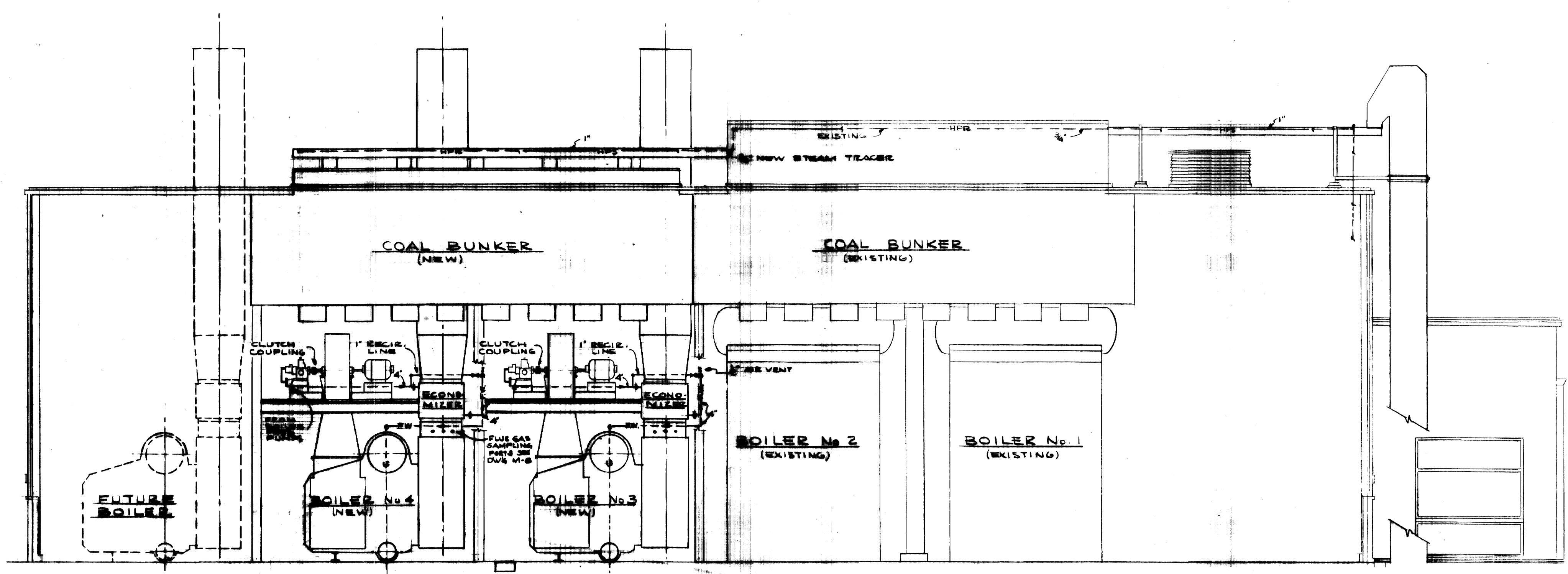
**AS-BUILT DRAWING**  
 REVISIONS MADE DURING CONSTRUCTION  
 HAVE BEEN INCLUDED ON THIS DRAWING  
 MASON & HANGER - SILAS MASON CO., INC.  
 BY GFS DATE 1-10-72  
 REVISED COOLING TOWER PIPING  
 ADDED GAS & DEAERATOR AIR VENTS



ADDITIONS & RENOVATIONS		
HEATING & COOLING PLANT - A. B. CHANDLER MEDICAL CENTER UNIVERSITY OF KENTUCKY LEXINGTON, KENTUCKY		
DRAWN BY GDP, WA	ROOF PLAN	DATE 5-28-70
TRACED BY	MASON & HANGER - SILAS MASON CO., INC. 1800 W. MAIN ST. LEXINGTON, KENTUCKY	SCALE 1/8" = 1'-0" SPEC. NO.
CHECKED BY GFS	COMMONWEALTH OF KENTUCKY DEPARTMENT OF FINANCE DIVISION OF ENGINEERING FRANKFORT KENTUCKY	DRAWING NO. M-6
APPROVED BY <i>[Signature]</i>	AGENCY HEAD	DATE 5-28-70
APPROVED BY <i>[Signature]</i>	DIRECTOR, DIVISION OF ENGINEERING	DATE 6-1-70

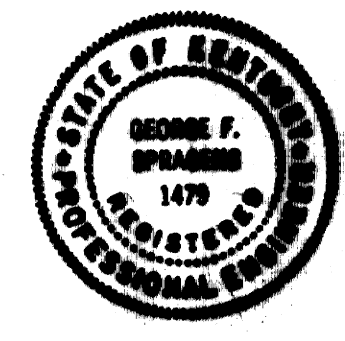


SECTION B  
SCALE: 1/8" = 1'-0"

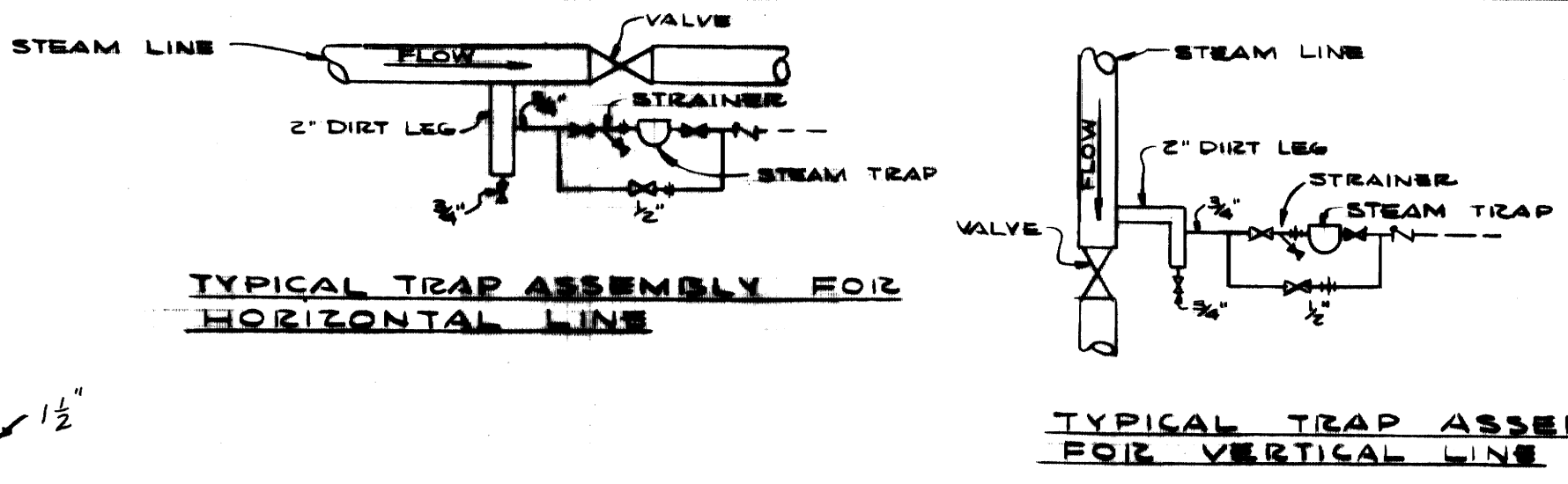
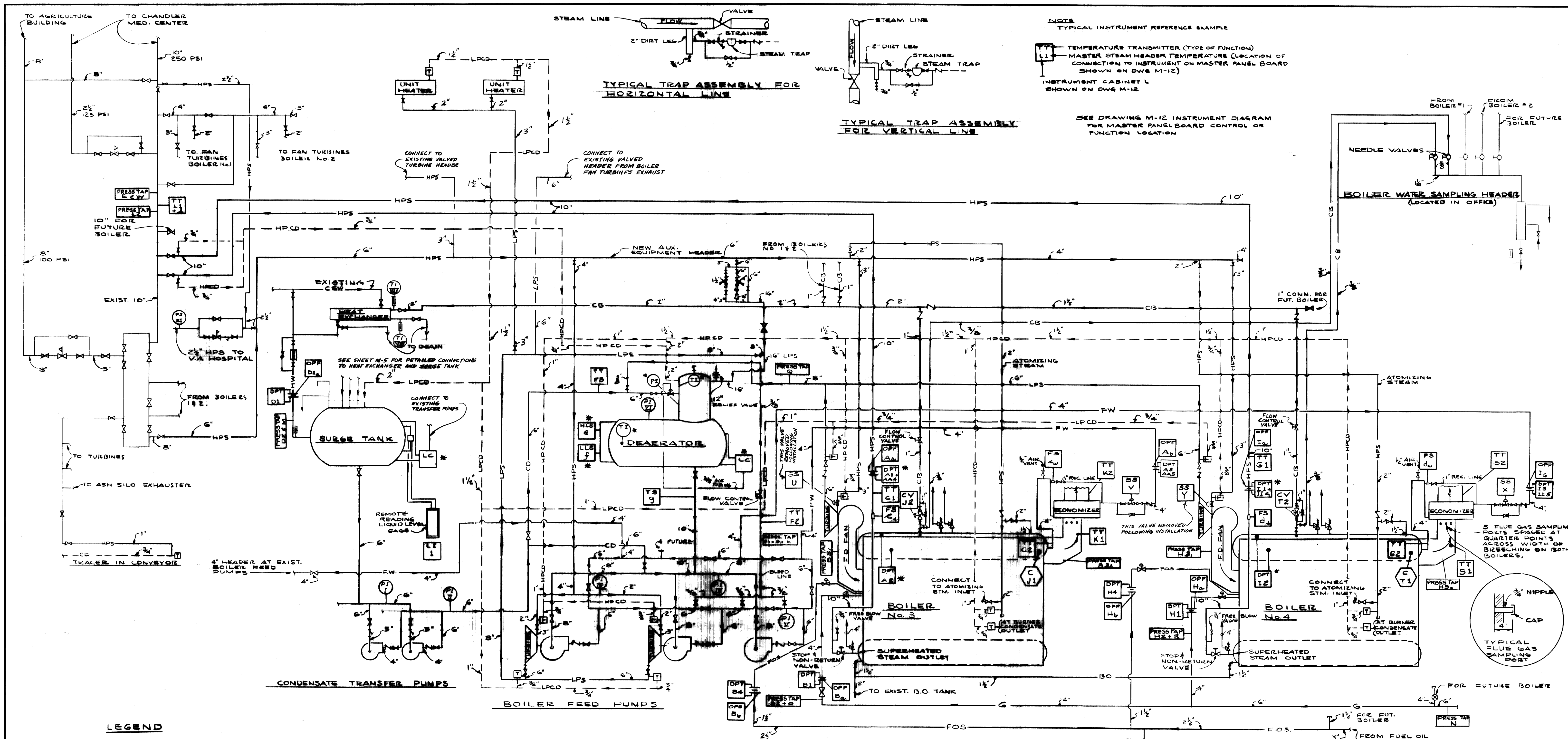


SECTION A  
SCALE: 1/8" = 1'-0"

**AS-BUILT DRAWING**  
 REVISIONS MADE DURING CONSTRUCTION  
 HAVE BEEN INCLUDED ON THIS DRAWING  
 MASON & HANGER - SILAS MASON CO., INC.  
 BY GFS DATE 1-10-72  
 NO REVISIONS



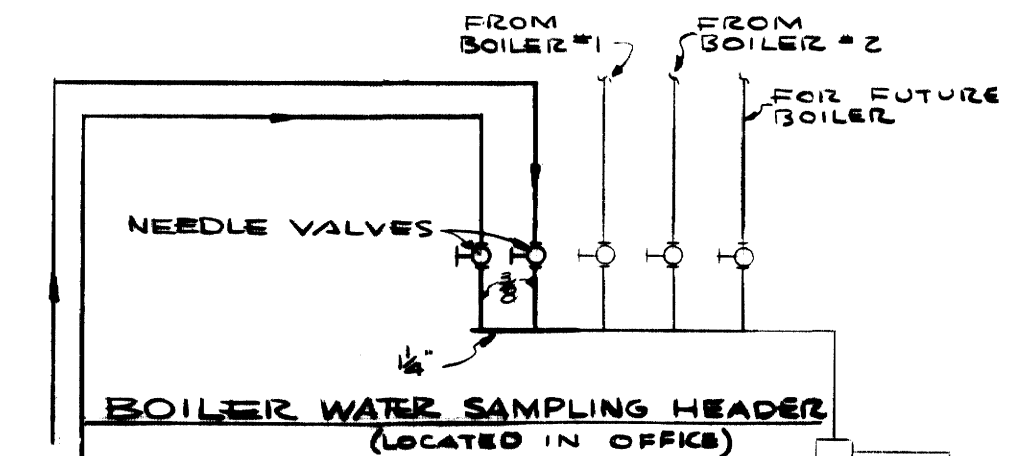
ADDITIONS & RENOVATIONS		
HEATING & COOLING PLANT - A. B. CHANDLER MEDICAL CENTER		
UNIVERSITY OF KENTUCKY		LEXINGTON, KENTUCKY
DRAWN BY GDP, RNS	SECTIONAL ELEVATIONS	DATE 5-28-70
TRACED BY	MASON & HANGER - SILAS MASON CO., INC.	SCALE 1/8" = 1'-0"
CHECKED BY GFS	1800 W. MAIN ST. LEXINGTON, KENTUCKY	SPEC. NO.
COMMONWEALTH OF KENTUCKY DEPARTMENT OF FINANCE DIVISION OF ENGINEERING FRANKFORT KENTUCKY		DRAWING NO. M-7
APPROVED BY <i>C. J. Marshall</i> AGENCY HEAD		DATE 5-28-70
APPROVED BY <i>W. J. McConner</i> DIRECTOR, DIVISION OF ENGINEERING		DATE 6-1-70



**NOTE**  
TYPICAL INSTRUMENT REFERENCE EXAMPLE

TT 1 - TEMPERATURE TRANSMITTER (TYPE OF FUNCTION)  
L 1 - MASTER STEAM HEADER TEMPERATURE (LOCATION OF CONNECTION TO INSTRUMENT ON MASTER PANEL BOARD SHOWN ON DWG M-12)  
INSTRUMENT CABINET L SHOWN ON DWG M-12

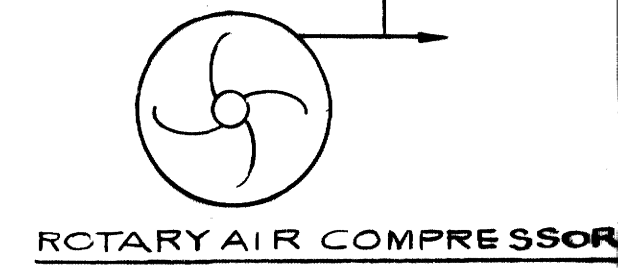
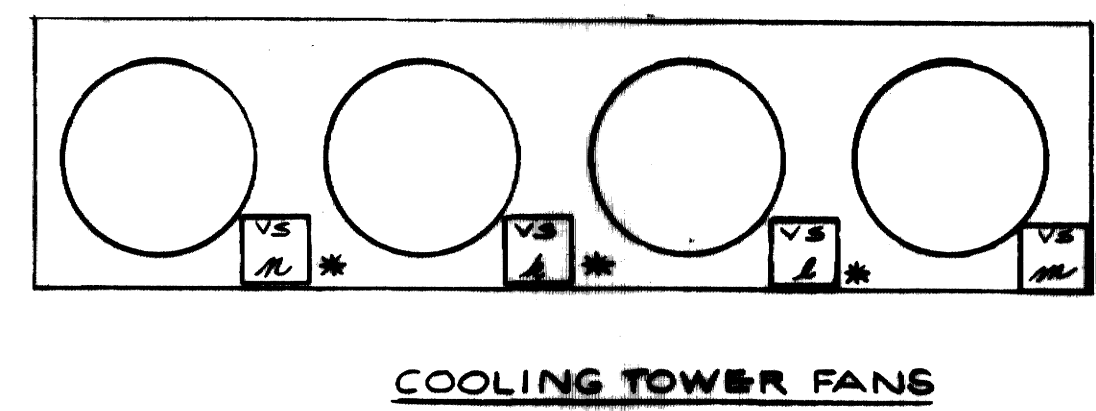
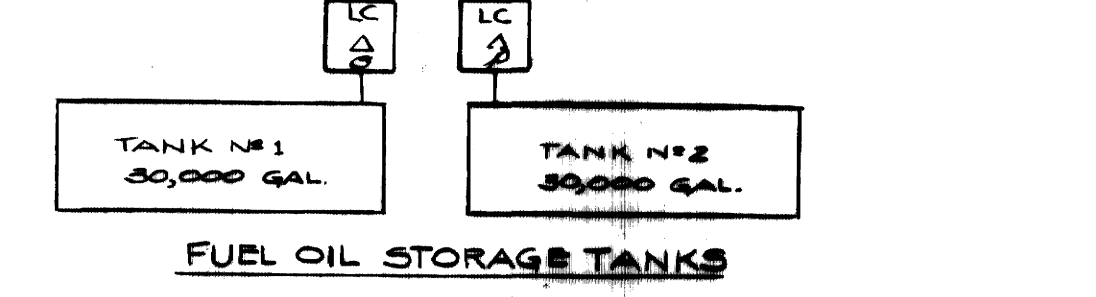
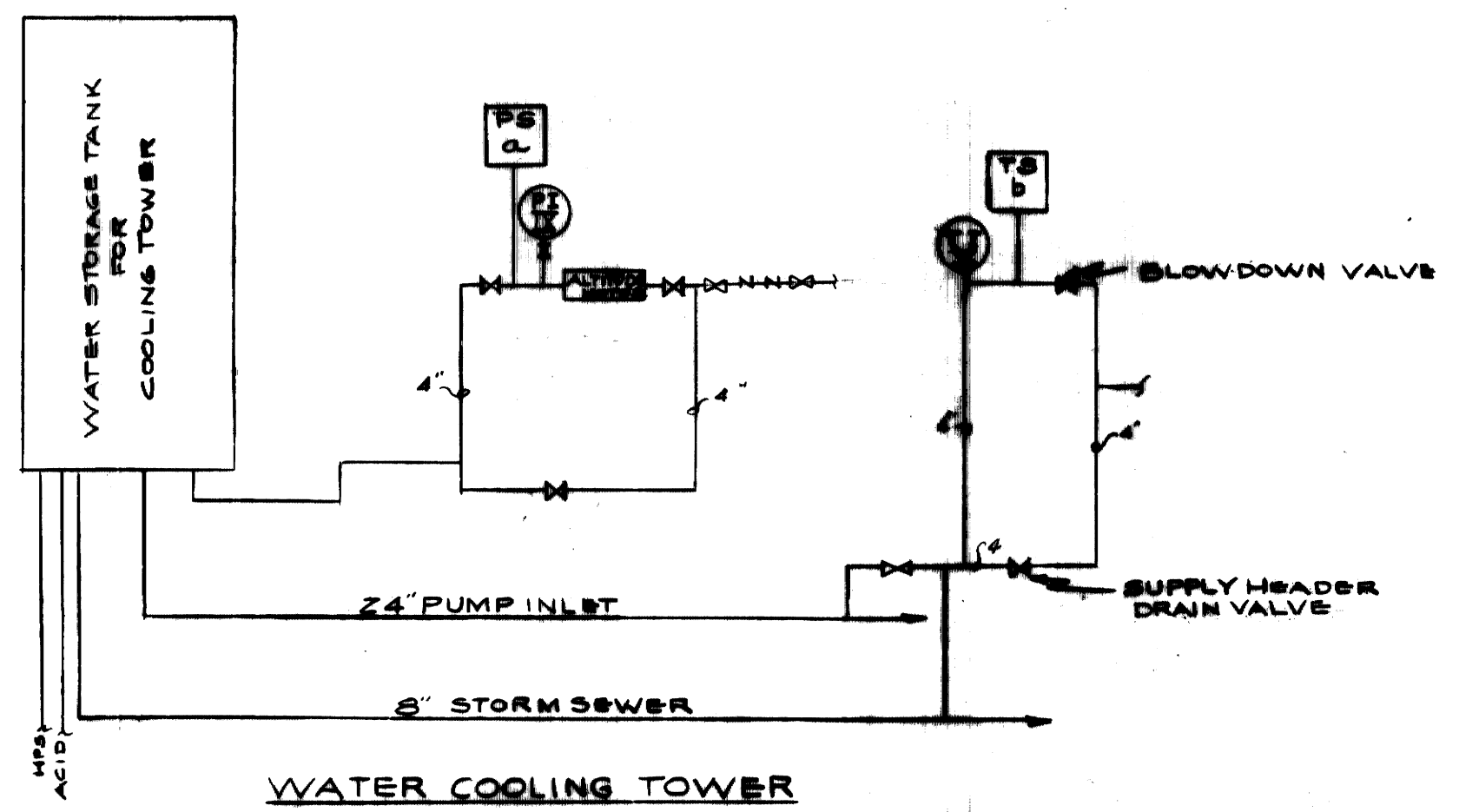
SEE DRAWING M-12 INSTRUMENT DIAGRAM FOR MASTER PANEL BOARD CONTROL OR FUNCTION LOCATION



**LEGEND**

- |     |                                    |     |                                 |
|-----|------------------------------------|-----|---------------------------------|
| PI  | PRESSURE GAGE                      | SS  | SELECTOR SWITCH                 |
| TI  | TEMPERATURE GAGE                   | PS  | PRESSURE SWITCH                 |
| PT  | PRESSURE TRANSMITTER               | CC  | COMBUSTION CONTROL              |
| TT  | TEMPERATURE TRANSMITTER            | ST  | STEAM TRAP ASSEMBLY             |
| DPT | DIFF. PRESSURE TRANSMITTER         | PS  | PRESSURE SWITCH                 |
| LLS | LOW LEVEL SWITCH                   | TS  | TEMPERATURE SWITCH              |
| HLS | HIGH LEVEL SWITCH                  | OPF | ORIFICE PLATE & ORIFICE FLANGES |
| HTS | HIGH TEMPERATURE SWITCH            | LI  | LEVEL INDICATOR                 |
| FS  | FLOW SWITCH                        | CV  | CONTROL VALVE                   |
| LC  | LEVEL CONTROL                      |     |                                 |
| TCL | TEMPERATURE CONTACT CONTROLLER LOW |     |                                 |
| VS  | VIBRATION SWITCH                   |     |                                 |
| C   | CONDUCTIVITY SENSOR                |     |                                 |

**NOTE**  
\* FURNISHED BY EQUIPMENT MANUFACTURER & INSTALLED BY CONTRACTOR



**NEW BOILERS**

BOILER #3 COMB. CONT. W-3  
BOILER #4 COMB. CONT. W-4

**EXISTING BOILERS**

BOILER #1 COMB. CONT. W-1  
BOILER #2 COMB. CONT. W-2

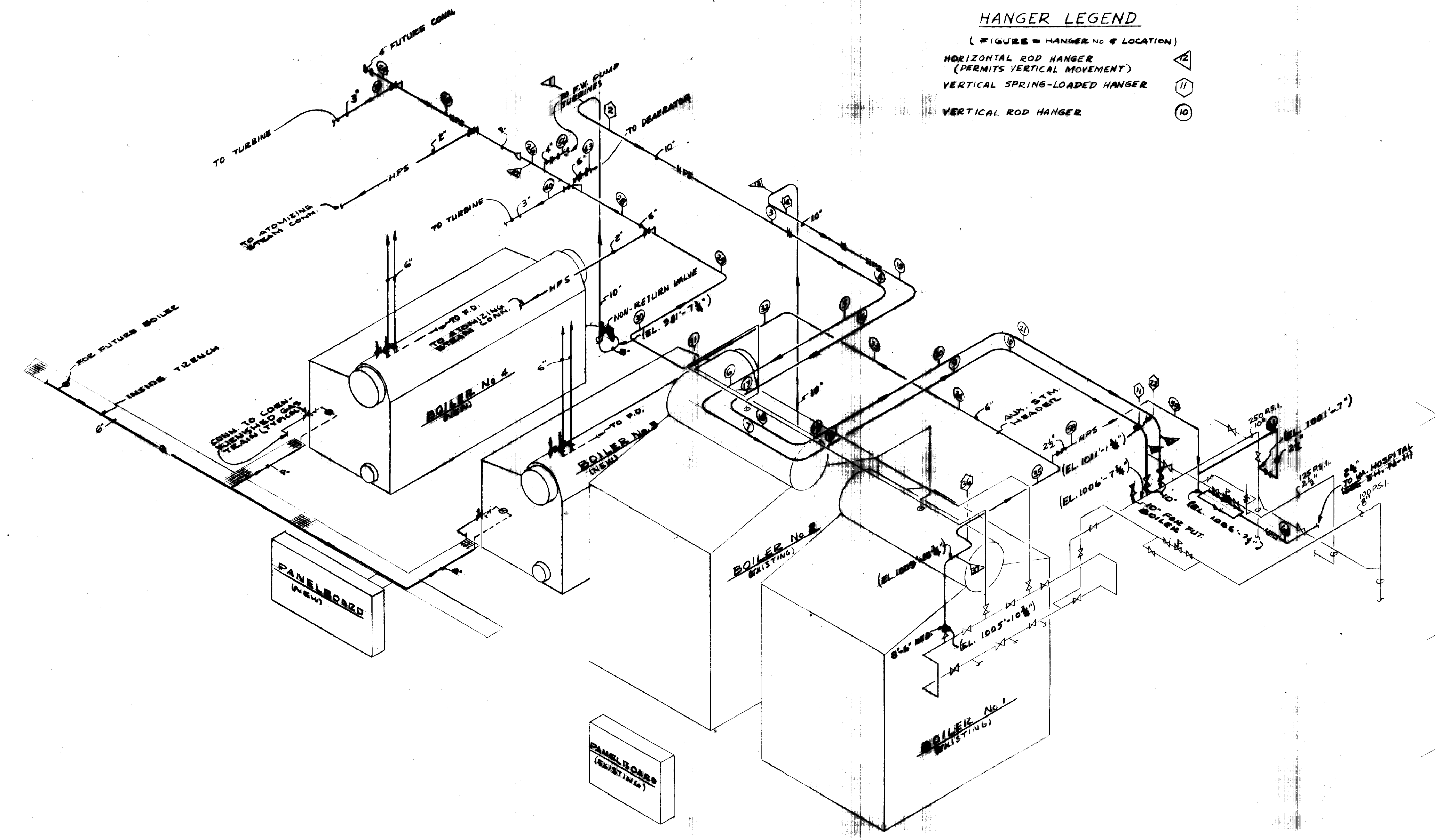
**AS-BUILT DRAWING**  
REVISIONS MADE DURING CONSTRUCTION HAVE BEEN INCLUDED ON THIS DRAWING

MASON & HANGER - SILAS MASON CO., INC.  
BY GFS DATE 1-10-72  
ADDED CROSSOVER LINES (6" LPS. & 3" HPS) BETWEEN OLD & NEW HEADPIPES  
INCREASED FAN TURBINE SUPPLY LINES (2" TO 3")  
CHANGED DEAERATOR BLEW VALVE (10" TO 12")

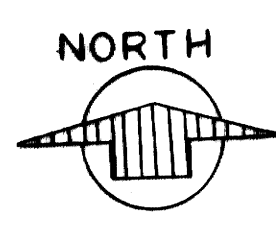
ADDITIONS & RENOVATIONS		DATE
HEATING & COOLING PLANT - A. B. CHANDLER MEDICAL CENTER		5-28-70
UNIVERSITY OF KENTUCKY LEXINGTON, KENTUCKY		SCALE
DRAWN BY	PIPING & INSTRUMENT SCHEMATIC	SPEC. NO.
TRACED BY	GDP, JKL	M-8
CHECKED BY	GFS	DRAWING NO.
MASON & HANGER - SILAS MASON CO., INC. 1500 W. MAIN ST. LEXINGTON, KENTUCKY		
COMMONWEALTH OF KENTUCKY DEPARTMENT OF FINANCE DIVISION OF ENGINEERING FRANKFORT, KENTUCKY		
APPROVED BY	DATE	
APPROVED BY	DATE	



**NOTES**  
 1. ALL REDUCERS IN HORIZONTAL STEAM PIPING SYSTEM SHALL BE ECCENTRIC. FLAT SIDE SHALL BE ON BOTTOM.  
 2. INDICATED ELEVATIONS REFER TO PIPE CENTERLINE



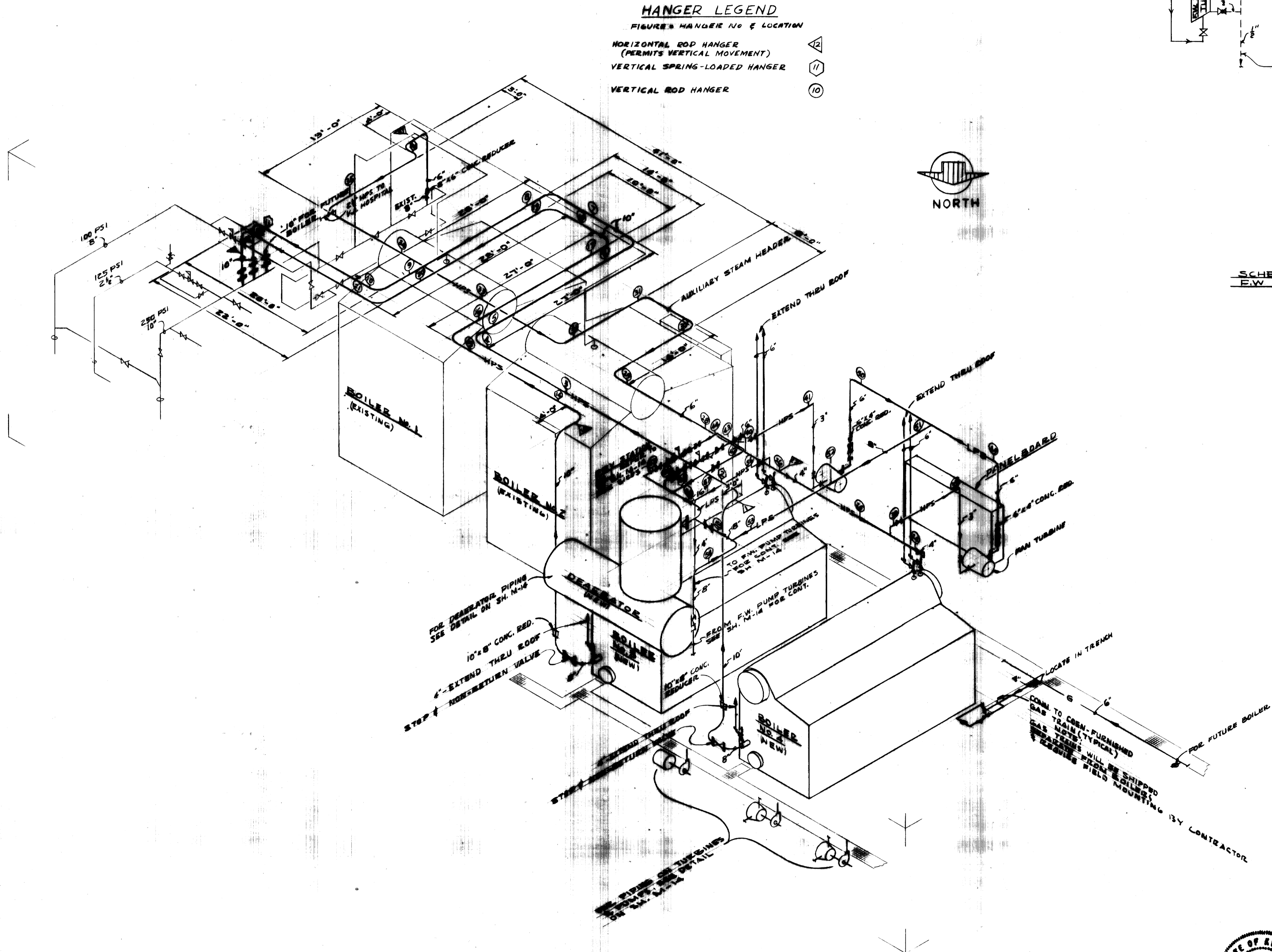
**HANGER LEGEND**  
 (FIGURE = HANGER No & LOCATION)  
 HORIZONTAL ROD HANGER (PERMITS VERTICAL MOVEMENT)   
 VERTICAL SPRING-LOADED HANGER   
 VERTICAL ROD HANGER



**AS-BUILT DRAWING**  
 REVISIONS MADE DURING CONSTRUCTION HAVE BEEN INCLUDED ON THIS DRAWING  
 MASON & HANGER — SILAS MASON CO., INC.  
 BY GFS DATE 1-10-72  
 CHANGED FAN TURBINE SUPPLY FROM 7" TO 8"



ADDITIONS & RENOVATIONS		
HEATING & COOLING PLANT — A. B. CHANDLER MEDICAL CENTER UNIVERSITY OF KENTUCKY LEXINGTON, KENTUCKY		
DRAWN BY S.D.P.	PIPING ISOMETRIC — LOOKING NORTH STEAM, CONDENSATE, GAS	DATE 5-28-70
TRACED BY	MASON & HANGER — SILAS MASON CO., INC. 1800 W. MAIN ST. LEXINGTON, KENTUCKY	SCALE NONE
CHECKED BY GFS		SPEC. NO.
COMMONWEALTH OF KENTUCKY DEPARTMENT OF FINANCE DIVISION OF ENGINEERING FRANKFORT, KENTUCKY		DRAWING NO. M-9
APPROVED BY <i>G. F. Spangars</i> AGENCY HEAD	DATE 5-28-70	
APPROVED BY <i>W. J. McConally</i> DIRECTOR, DIVISION OF ENGINEERING	DATE 6-1-70	

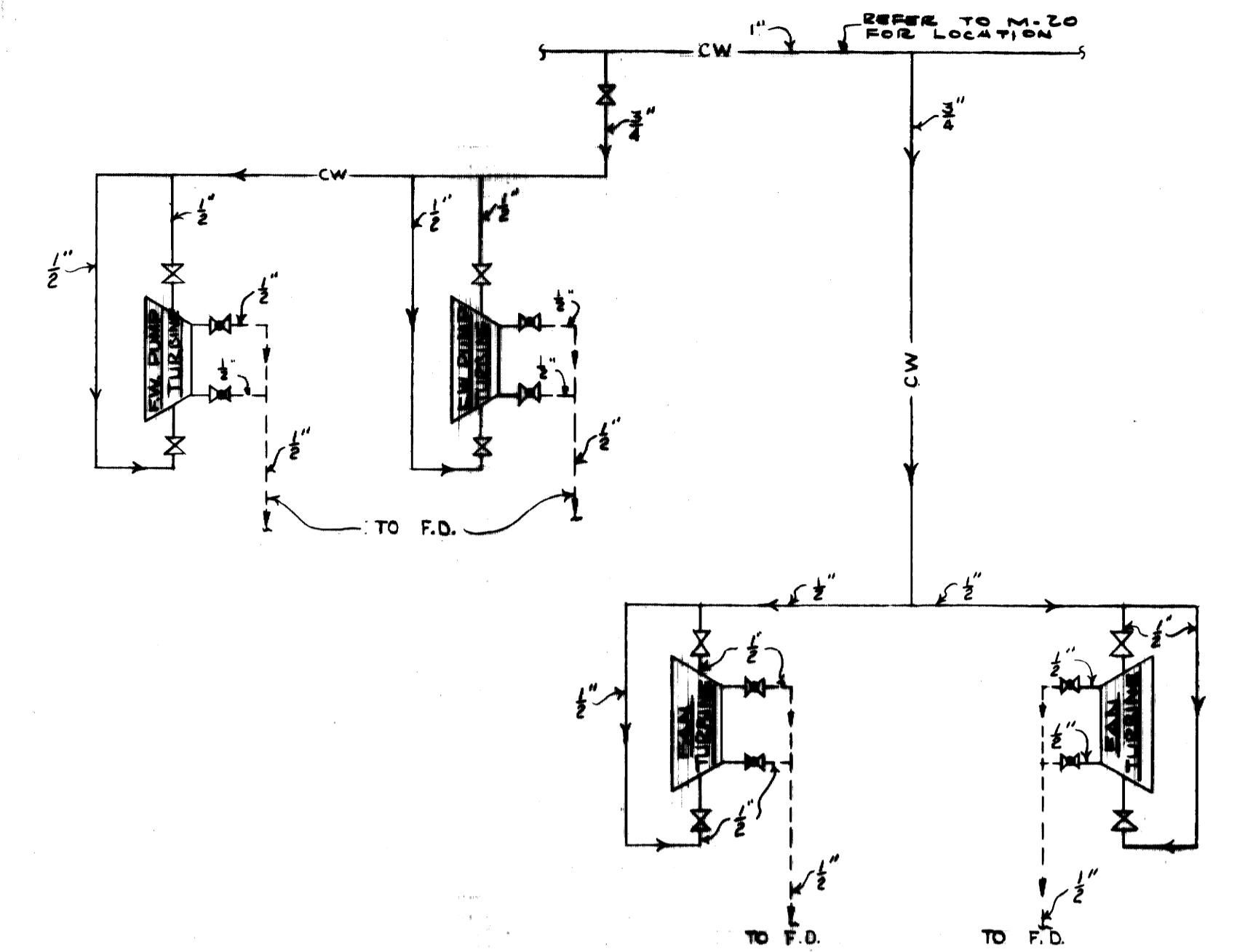


**HANGER LEGEND**  
 FIGURES HANGER NO & LOCATION

△ HORIZONTAL ROD HANGER (PERMITS VERTICAL MOVEMENT)

□ VERTICAL SPRING-LOADED HANGER

○ VERTICAL ROD HANGER



**SCHEMATIC WATER PIPING DIAGRAM FOR F.W. PUMP & FAN TURBINE BEARING**  
 NO SCALE

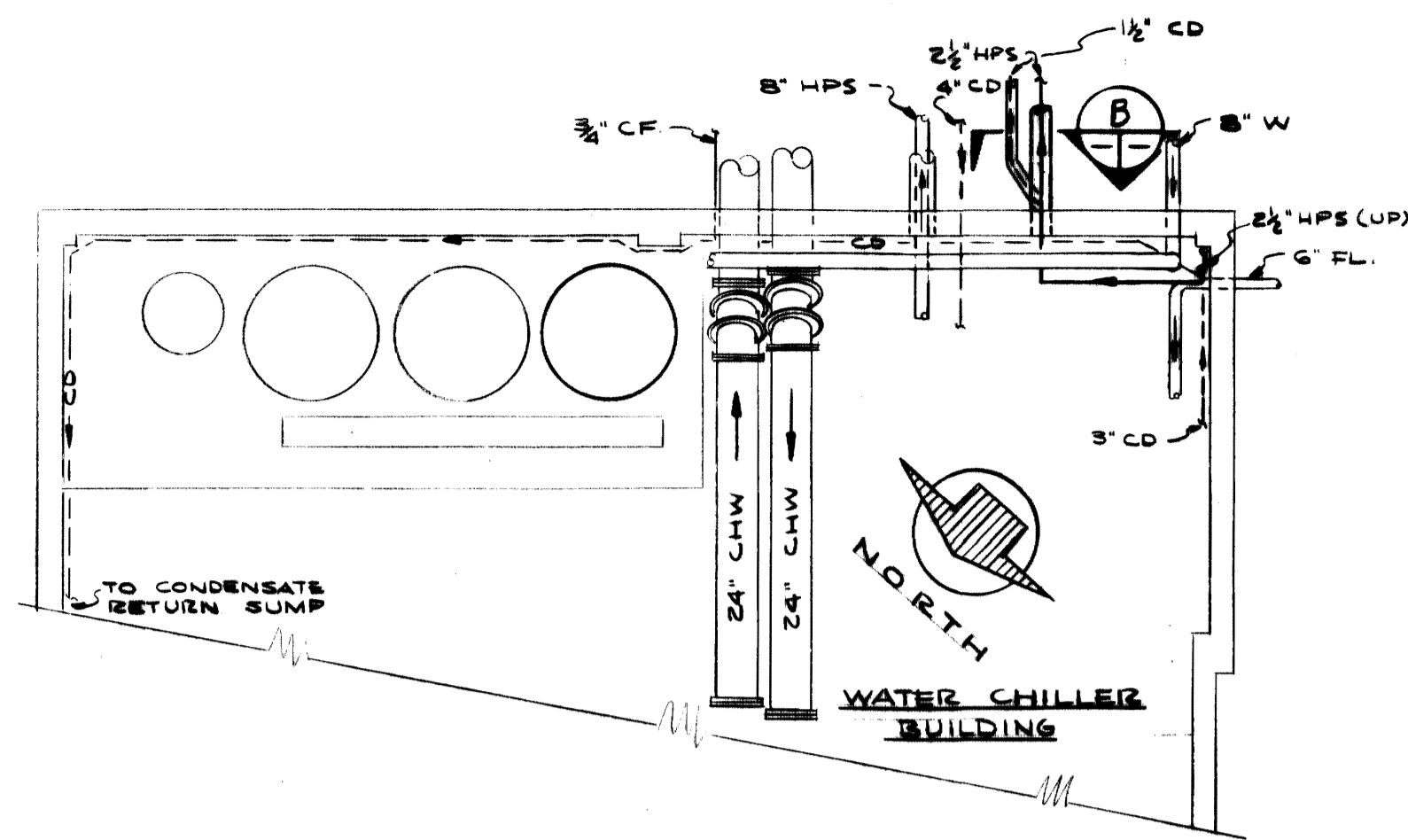
- NOTES**
1. ALL REDUCERS IN HORIZONTAL STEAM SYSTEMS SHALL BE ECCENTRIC. FLAT SIDE SHALL BE ON BOTTOM.
  2. INDICATED DIMENSIONS REFER TO PIPE CENTELINES.

**AS-BUILT DRAWING**  
 REVISIONS MADE DURING CONSTRUCTION HAVE BEEN INCLUDED ON THIS DRAWING

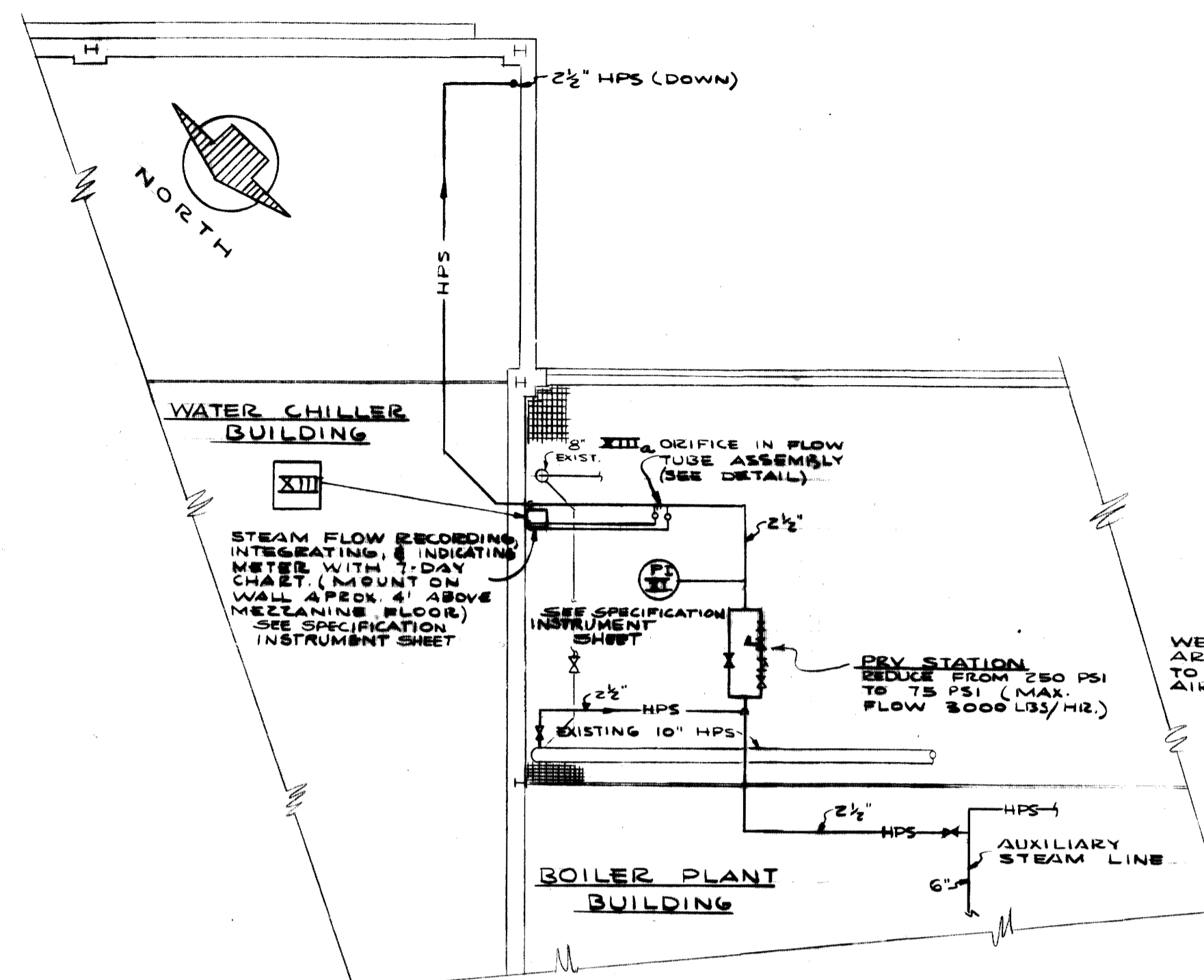
MASON & HANGER — SILAS MASON CO., INC.  
 BY GFS DATE 1-10-72  
 CHANGED FAN TURBINE SUPPLY LINE FROM 2" TO 3"



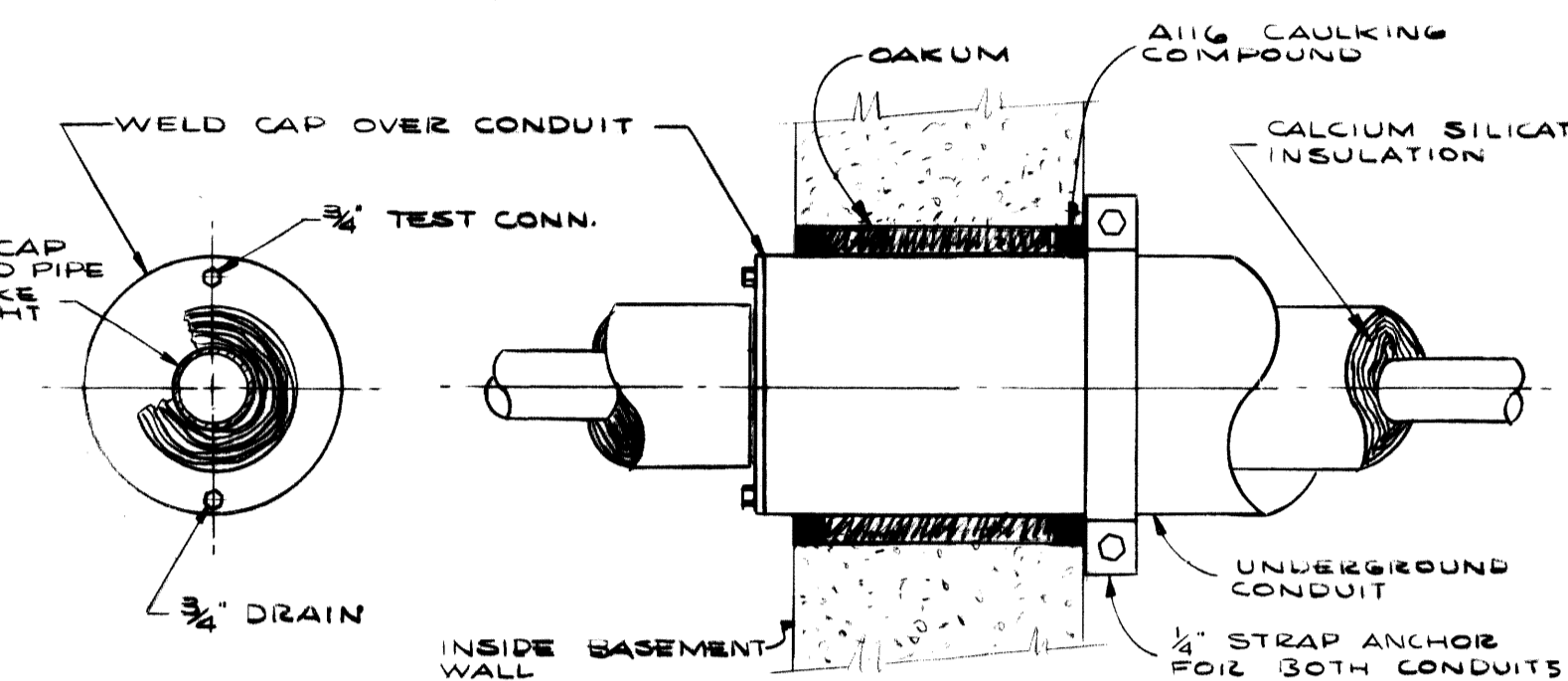
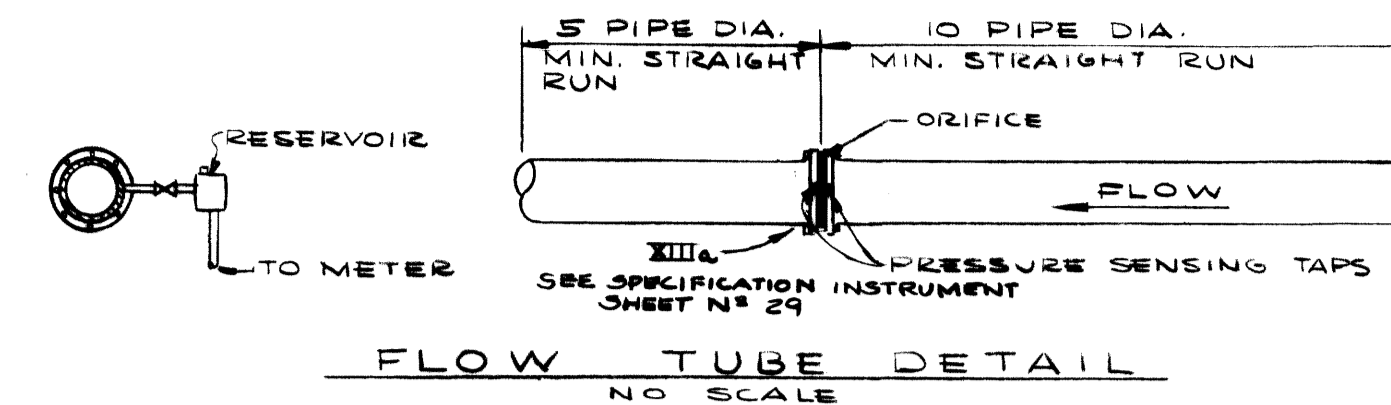
ADDITIONS & RENOVATIONS		
HEATING & COOLING PLANT — A. B. CHANDLER MEDICAL CENTER UNIVERSITY OF KENTUCKY LEXINGTON, KENTUCKY		
DRAWN BY GDP	PIPING ISOMETRIC LOKING SOUTH STEAM CONDENSATE	DATE 5-28-70
TRACED BY	MASON & HANGER — SILAS MASON CO., INC. 1800 W. MAIN ST. LEXINGTON, KENTUCKY	SCALE NARS SPEC. NO.
CHECKED BY GFS	COMMONWEALTH OF KENTUCKY DEPARTMENT OF FINANCE DIVISION OF ENGINEERING FRANKFORT, KENTUCKY	DRAWING NO. M-10
APPROVED BY <i>C. J. Marshall</i>	AGENCY HEAD	DATE 5-28-70
APPROVED BY <i>W. V. Mc Connell</i>	DIRECTOR, DIVISION OF ENGINEERING	DATE 6-1-70



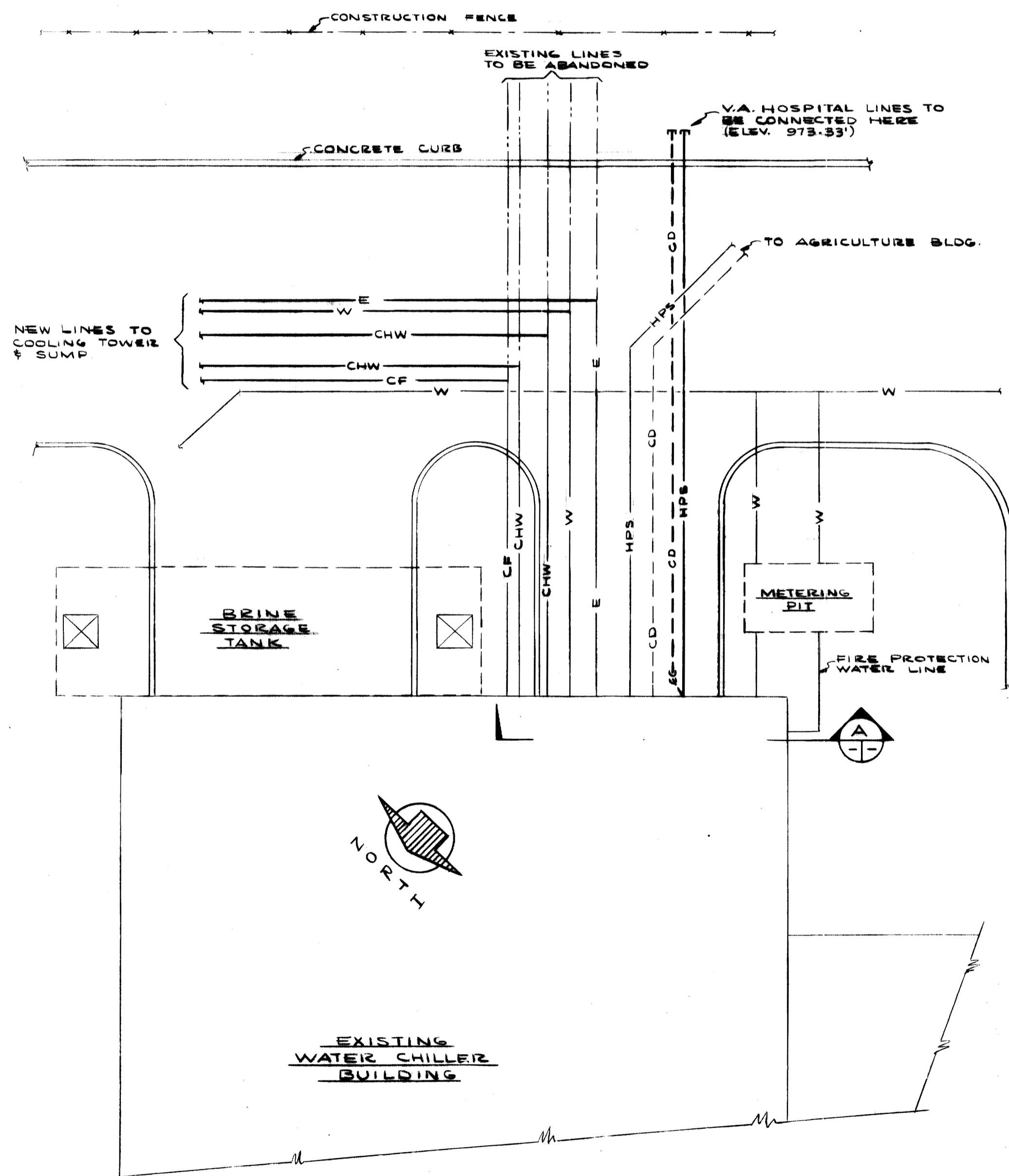
PARTIAL BASEMENT PLAN  
SCALE: 1/4" = 1'-0"



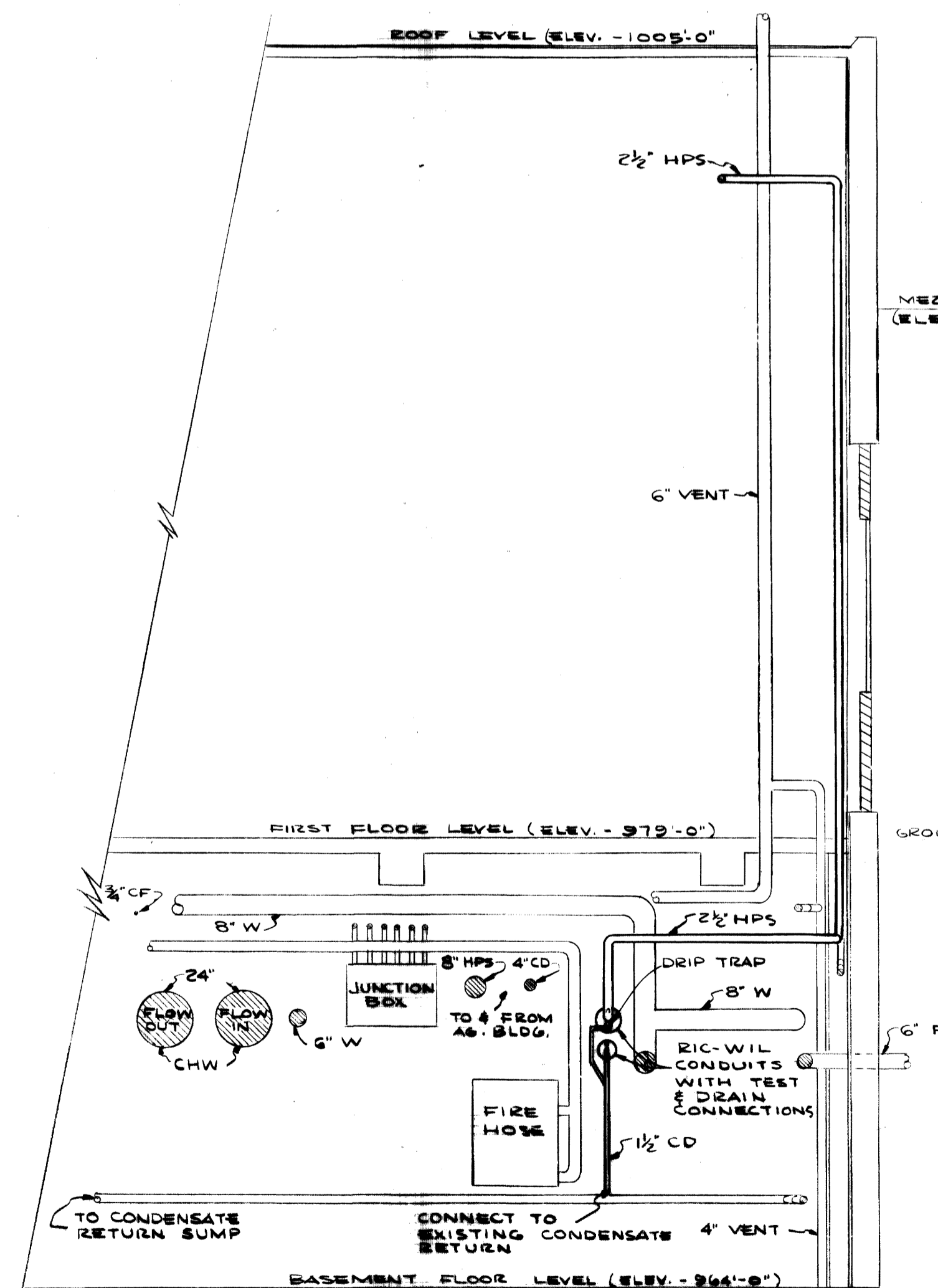
PARTIAL MEZZANINE PLAN  
SCALE: 1/4" = 1'-0"



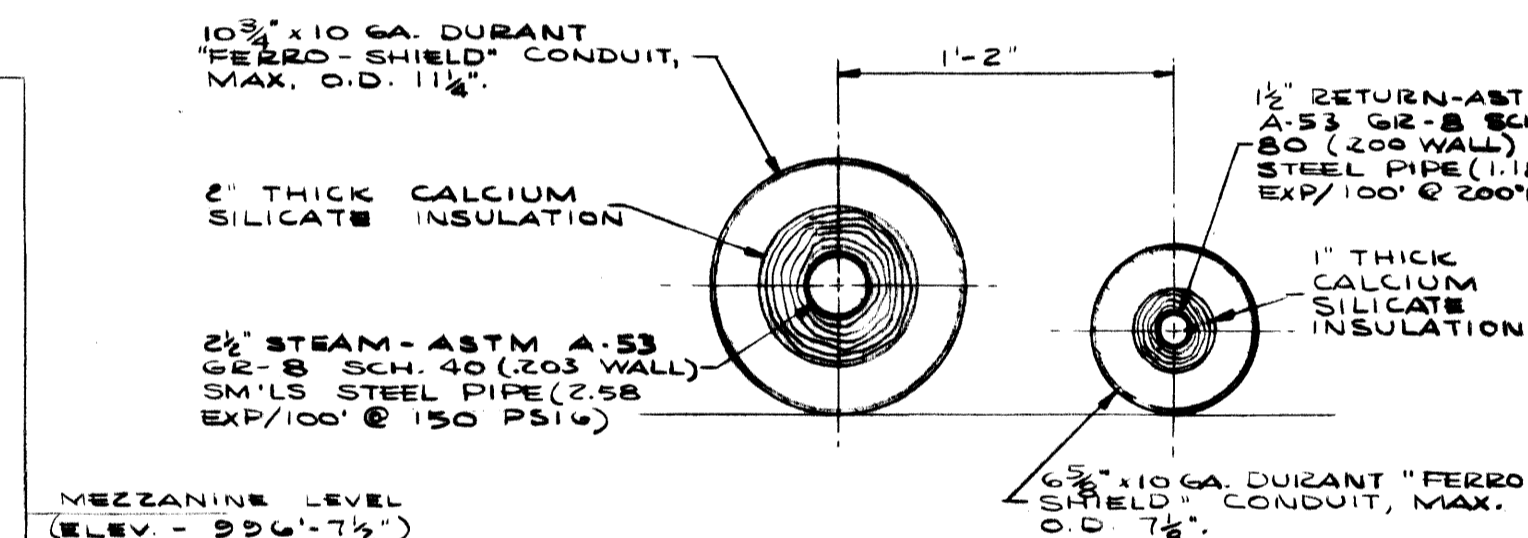
DETAIL OF CONDUIT AT BASEMENT WALL  
NO SCALE



PARTIAL SITE PLAN  
SCALE: 1/4" = 1'-0"



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



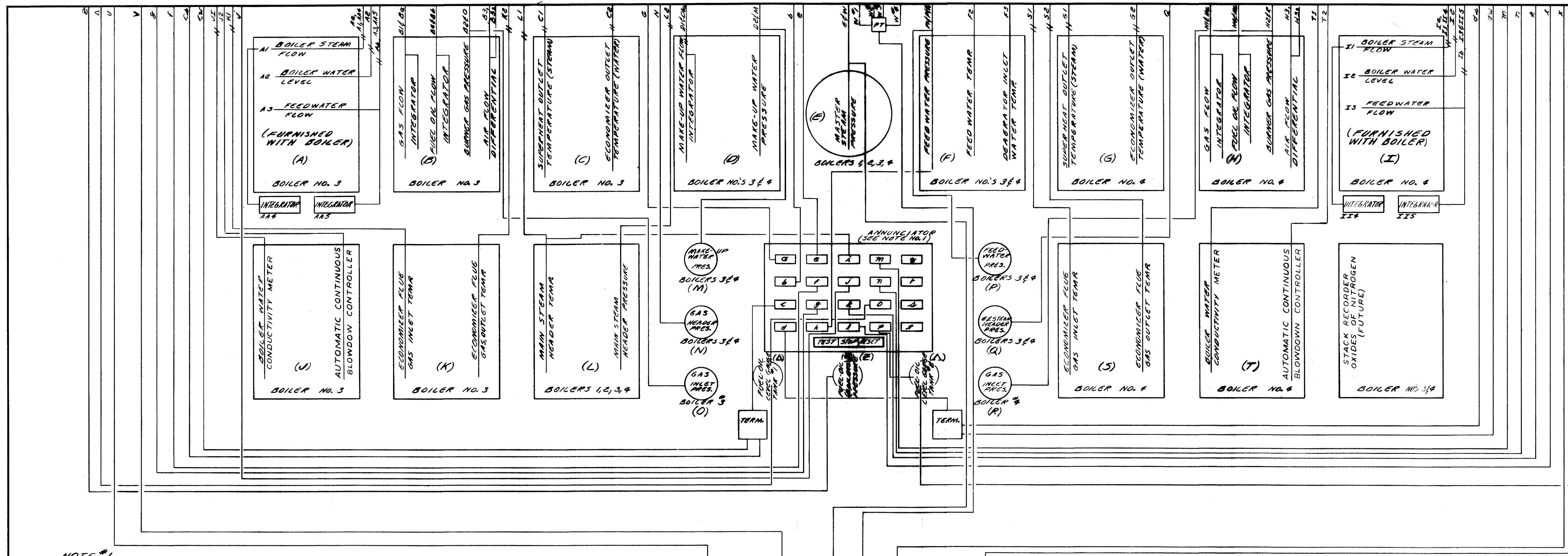
SECTION B  
SCALE: 1/2" = 1'-0"

AS-BUILT DRAWING  
REVISIONS MADE DURING CONSTRUCTION  
HAVE BEEN INCLUDED ON THIS DRAWING  
MASON & HANGER - SILAS MASON CO., INC.  
BY GFS DATE 1-10-72  
NO REVISIONS

ADDITIONS & RENOVATIONS		
HEATING & COOLING PLANT - A. B. CHANDLER MEDICAL CENTER		
UNIVERSITY OF KENTUCKY LEXINGTON, KENTUCKY		
DRAWN BY GDP	STEAM & CONDENSATE FOR V.A. HOSPITAL V.A. PROJECT NO. 16-5177	DATE 5-28-70
TRACED BY GFS	MASON & HANGER - SILAS MASON CO., INC. 1800 W. MAIN ST. LEXINGTON, KENTUCKY	SCALE AS NOTED
CHECKED BY GFS	COMMONWEALTH OF KENTUCKY DEPARTMENT OF FINANCE DIVISION OF ENGINEERING FRANKFORT KENTUCKY	SPEC. NO. DRAWING NO. M-11

APPROVED BY: *Dr. Marshall* AGENCY HEAD DATE 5-28-70  
APPROVED BY: *Dr. McConnell* DIRECTOR, DIVISION OF ENGINEERING DATE 6-1-70



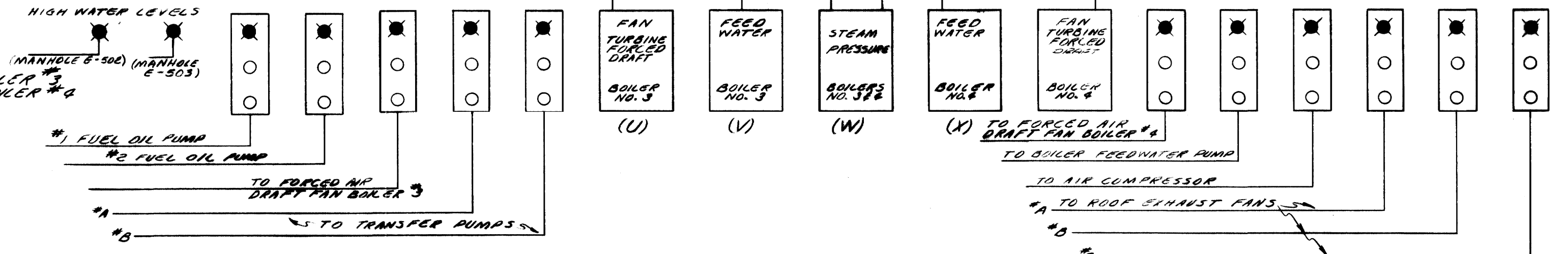


**NOTE #2**  
 TYPICAL INSTRUMENT REFERENCE EXAMPLE

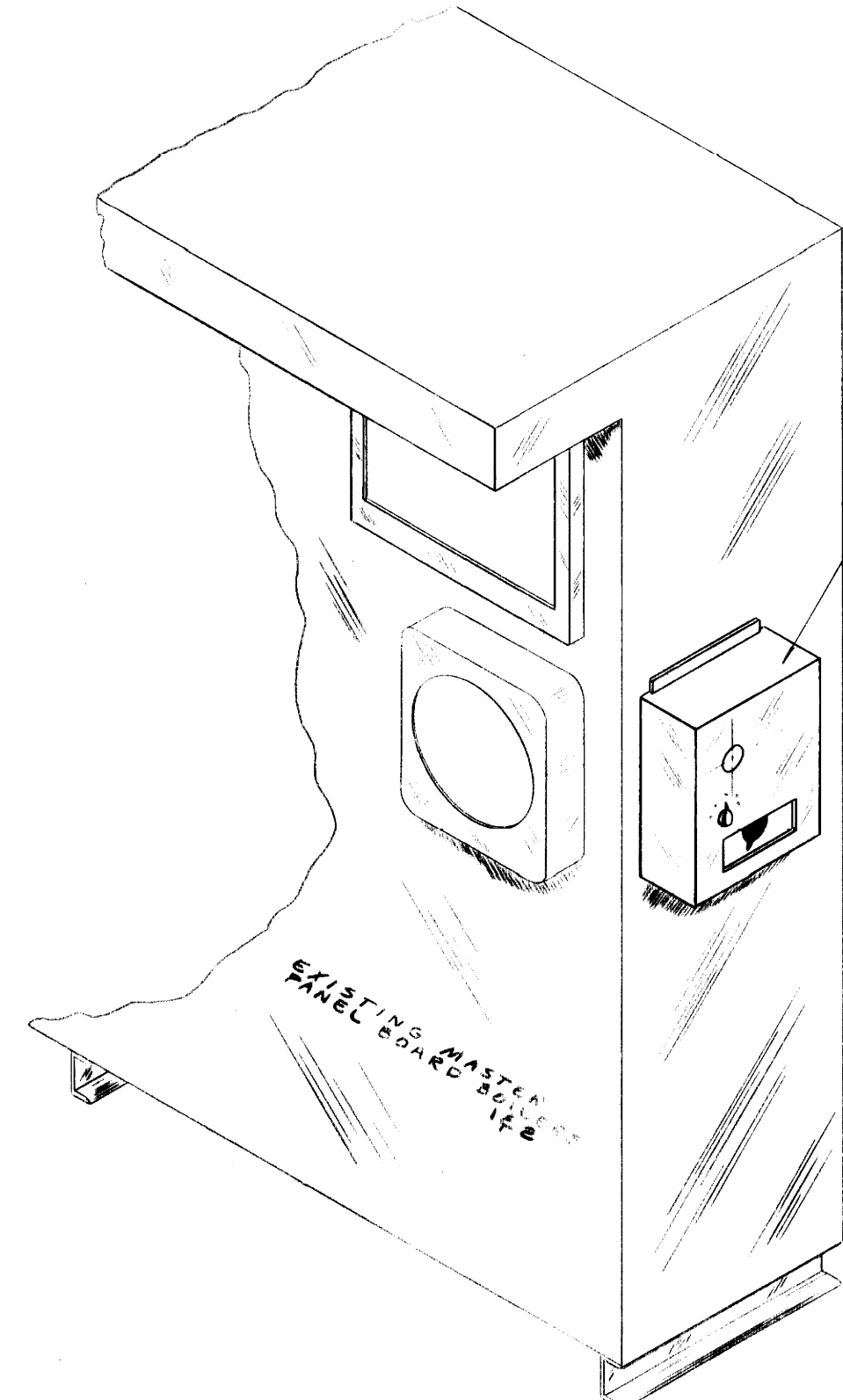
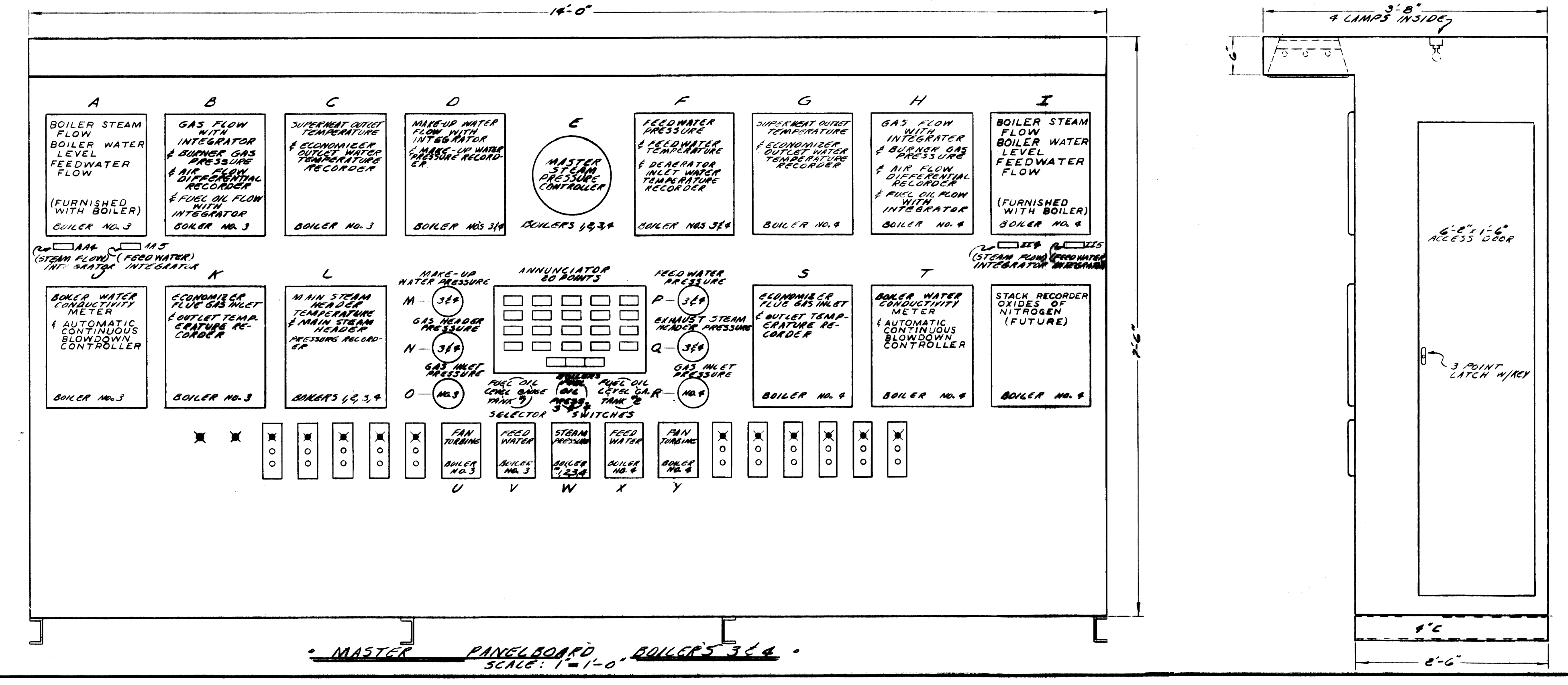
**NOTE #3**  
 \* INDICATES PNEUMATIC SIGNAL TO PANELBOARDS & SUPPLY AIR TO TRANSMITTER

**NOTE #4**  
 ALL INSTRUMENT COPPER & HIGH PRESSURE STEEL TUBING SHALL BE CONTINUOUSLY SUPPORTED BY TRAYS, CHANNELS, & BEARS OR RACKS OF 16 GAGE MINIMUM THICKNESS WITH HEAVENED ROSS REINFORCEMENT. CONTRACTOR SHALL FURNISH ALL HANGER RODS & SUPPORTS WITH 3" MINIMUM ROD DIA. & SUPPORT SPACING 4' MIN.

- NOTE #1**  
 ANNUNCIATOR POINTS (CO)
- A LOW LEVEL ALARM - WATER IN COOLING TOWER
  - B HIGH TEMPERATURE ALARM - WATER IN COOLING TOWER
  - C ECONOMIZER RECIRCULATING VALVE INCORRECTLY SET BOILER NO. 3
  - D ECONOMIZER RECIRCULATING VALVE INCORRECTLY SET BOILER NO. 4
  - E HIGH LEVEL ALARM - GENERATOR WATER
  - F LOW LEVEL ALARM - GENERATOR WATER
  - G LOW TEMPERATURE - GENERATOR WATER
  - H LOW PRESSURE - FEED WATER
  - I HIGH TEMPERATURE ALARM - MAIN STEAM HEADER
  - J LOW PRESSURE ALARM - COMPRESSOR AIR
  - K COOLING TOWER VIBRATION SHUT DOWN
  - L " " " " " "
  - M " " " " " "
  - N " " " " " "
  - O FUEL OIL TANK NO. 1 - LOW LEVEL ALARM
  - P FUEL OIL TANK NO. 2 - LOW LEVEL ALARM
  - Q SPARE
  - R " " " " " "
  - S " " " " " "
  - T " " " " " "
  - U " " " " " "
  - V " " " " " "
  - W " " " " " "
  - X " " " " " "
  - Y " " " " " "



ORIGINAL DRAWING FOR INFORMATION PURPOSES ONLY

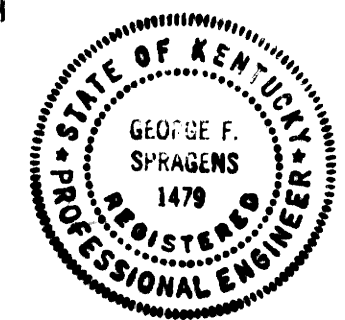
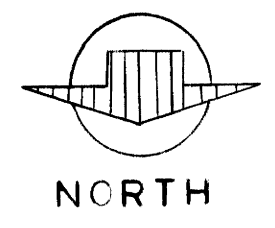


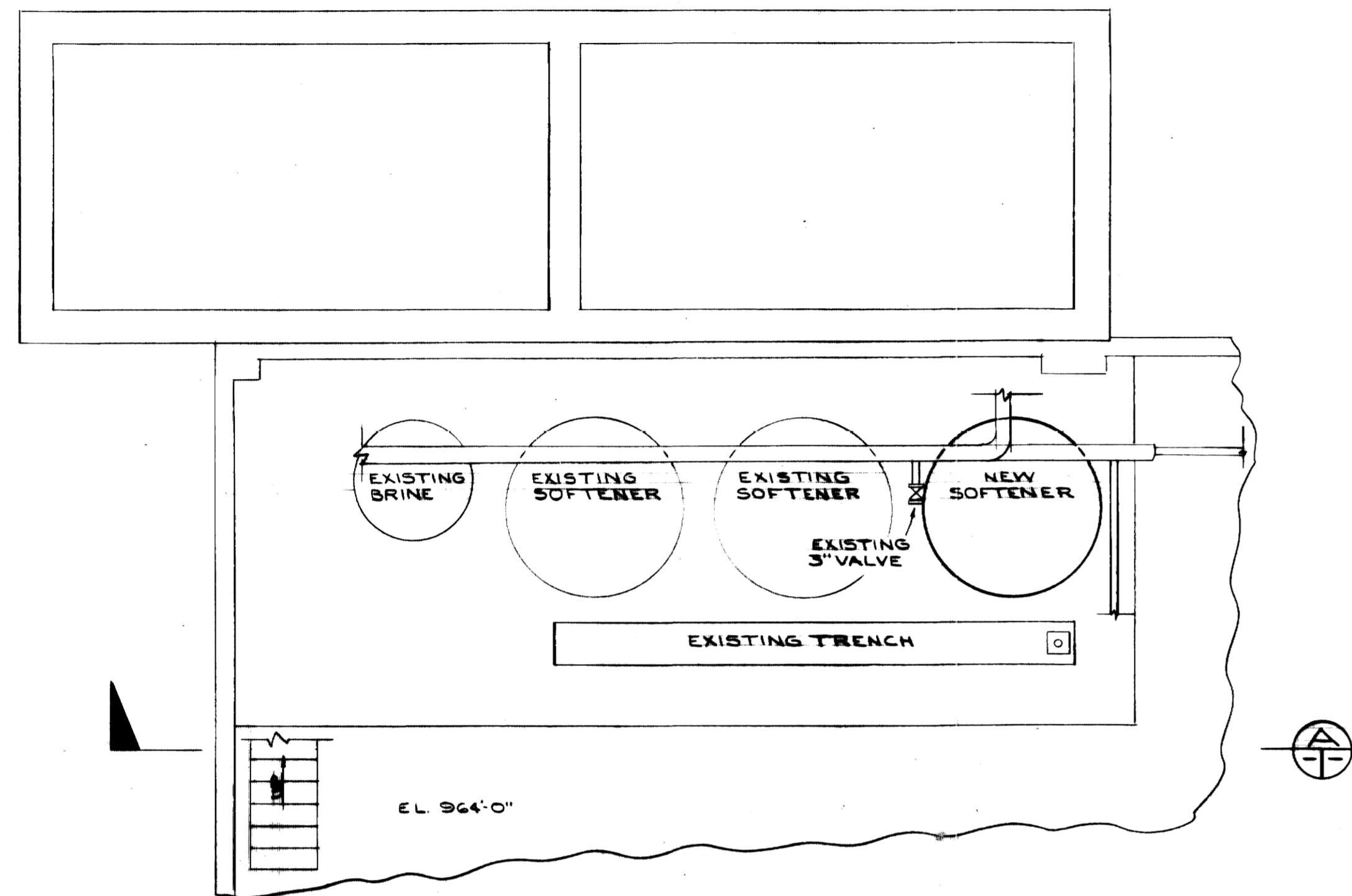
LOCATION OF (NEW) COAL BIN LEVEL INDICATOR ON END OF THIS CABINET

**AS-BUILT DRAWING**  
 REVISIONS MADE DURING CONSTRUCTION HAVE BEEN INCLUDED ON THIS DRAWING  
 MASON & HANGER — SILAS MASON CO., INC.  
 BY: G.F.S. DATE: 1-10-72  
 NO. 2 REVISIONS

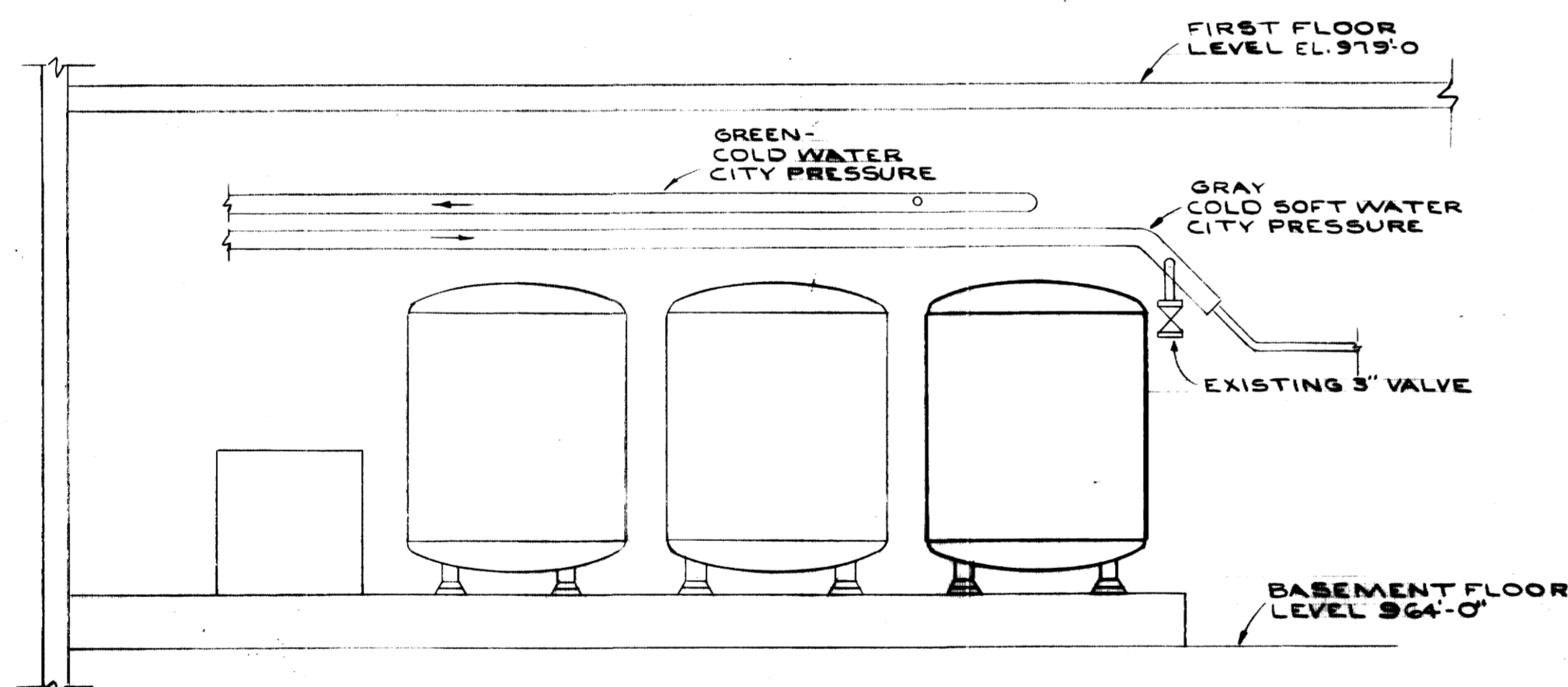
ADDITIONS & RENOVATIONS  
 HEATING & COOLING PLANT — A. B. CHANDLER MEDICAL CENTER  
 UNIVERSITY OF KENTUCKY LEXINGTON, KENTUCKY

DRAWN BY RKS	BOILER PANEL INSTRUMENTATION	DATE 5-28-70
TRACED BY RKS	MASON & HANGER — SILAS MASON CO., INC. 1500 W. MAIN ST. LEXINGTON, KENTUCKY	SCALE
CHECKED BY GFS	COMMONWEALTH OF KENTUCKY DEPARTMENT OF FINANCE DIVISION OF ENGINEERING FRANKFORT, KENTUCKY	SPEC. NO.
APPROVED BY G.F. Marshall AGENCY HEAD	DATE 5-28-70	DRAWING NO. M-12
APPROVED BY W. J. McConnaughy DIRECTOR, DIVISION OF ENGINEERING	DATE 6-1-70	



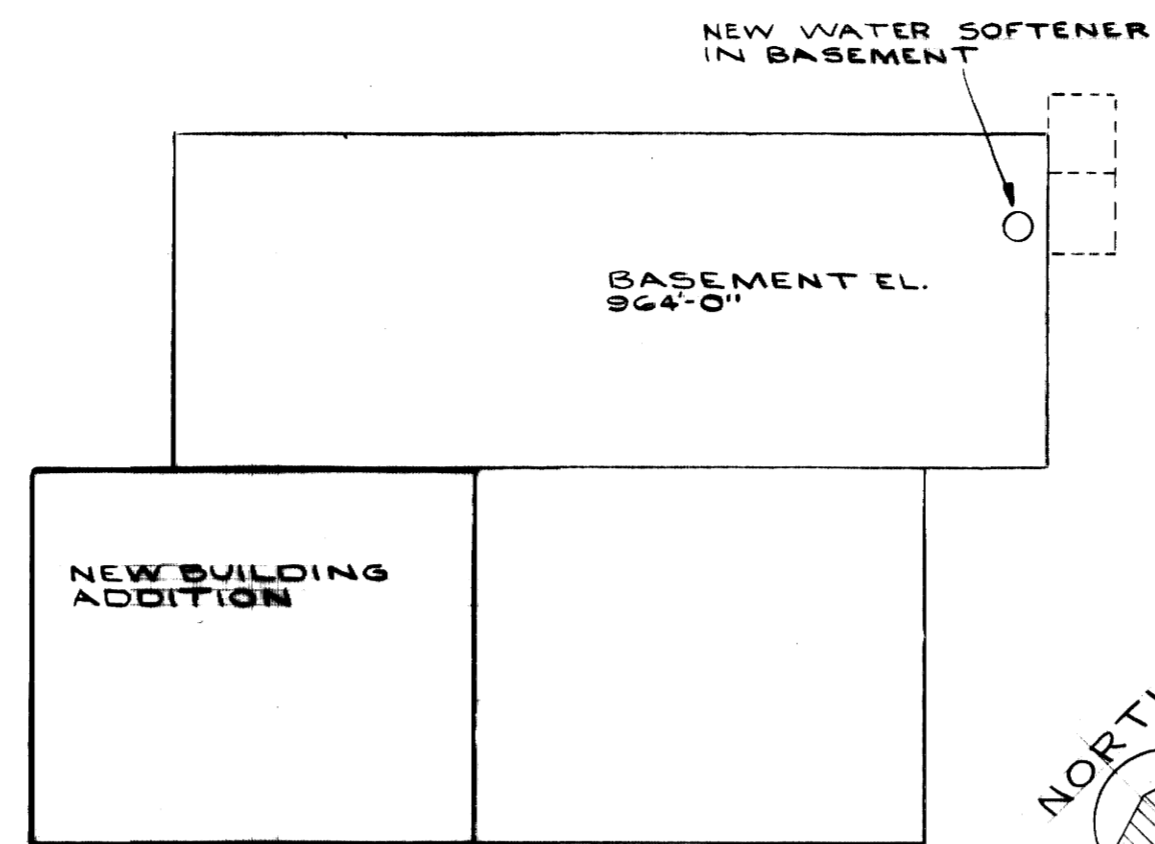


PLAN  
SCALE: 1/4" = 1'-0"

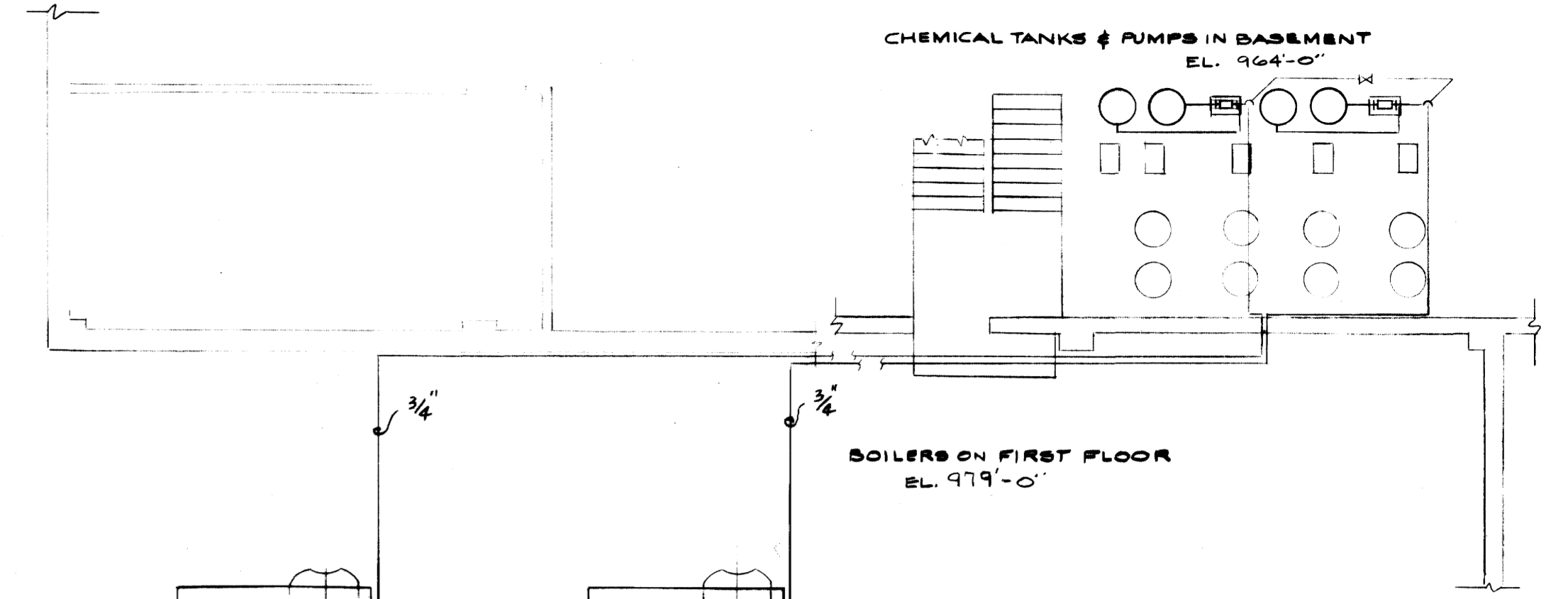


ELEVATION  
SCALE: 1/4" = 1'-0"

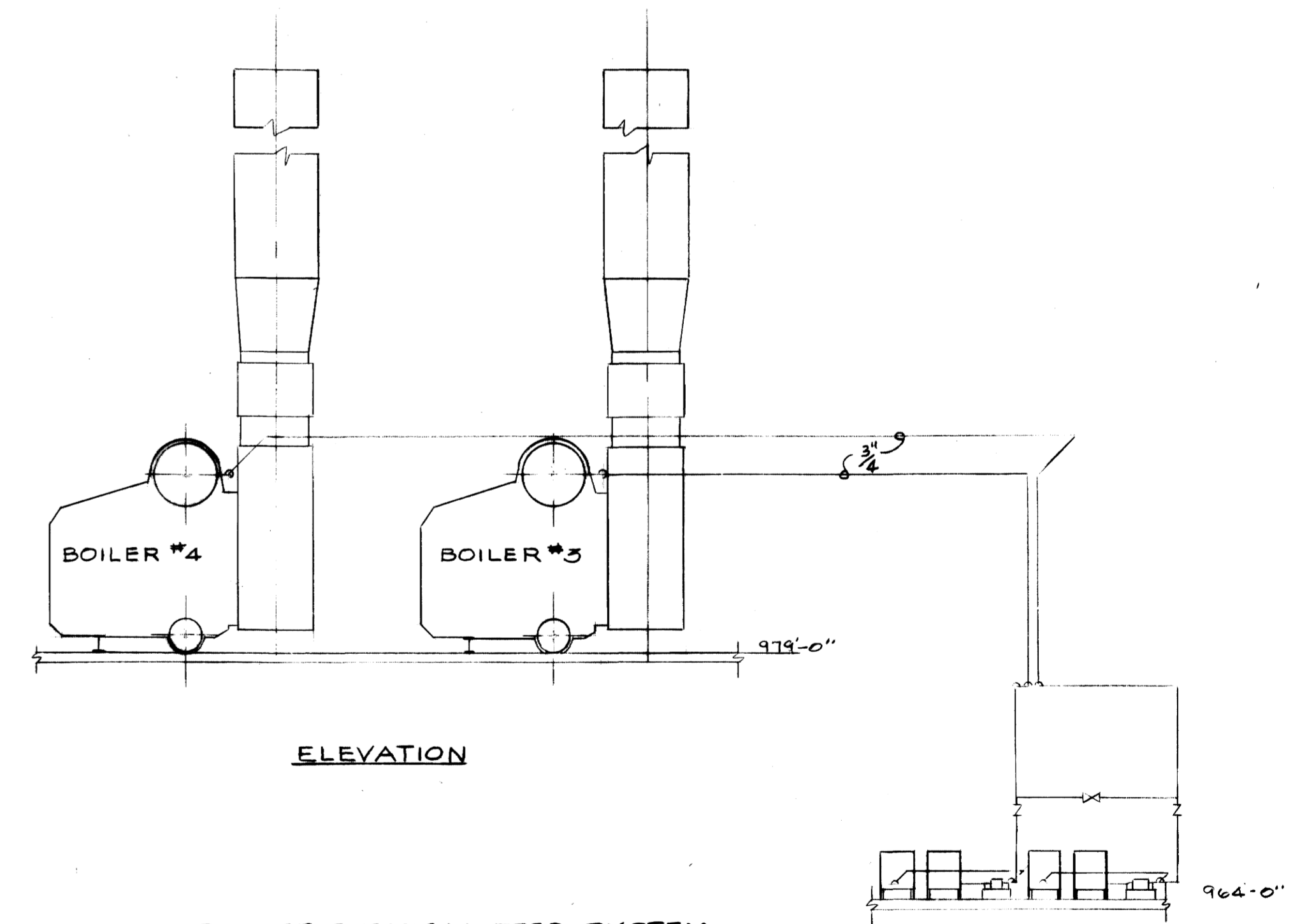
NEW WATER SOFTENER



BUILDING OUTLINE  
SCALE: 1/32" = 1'-0"



PLAN



ELEVATION

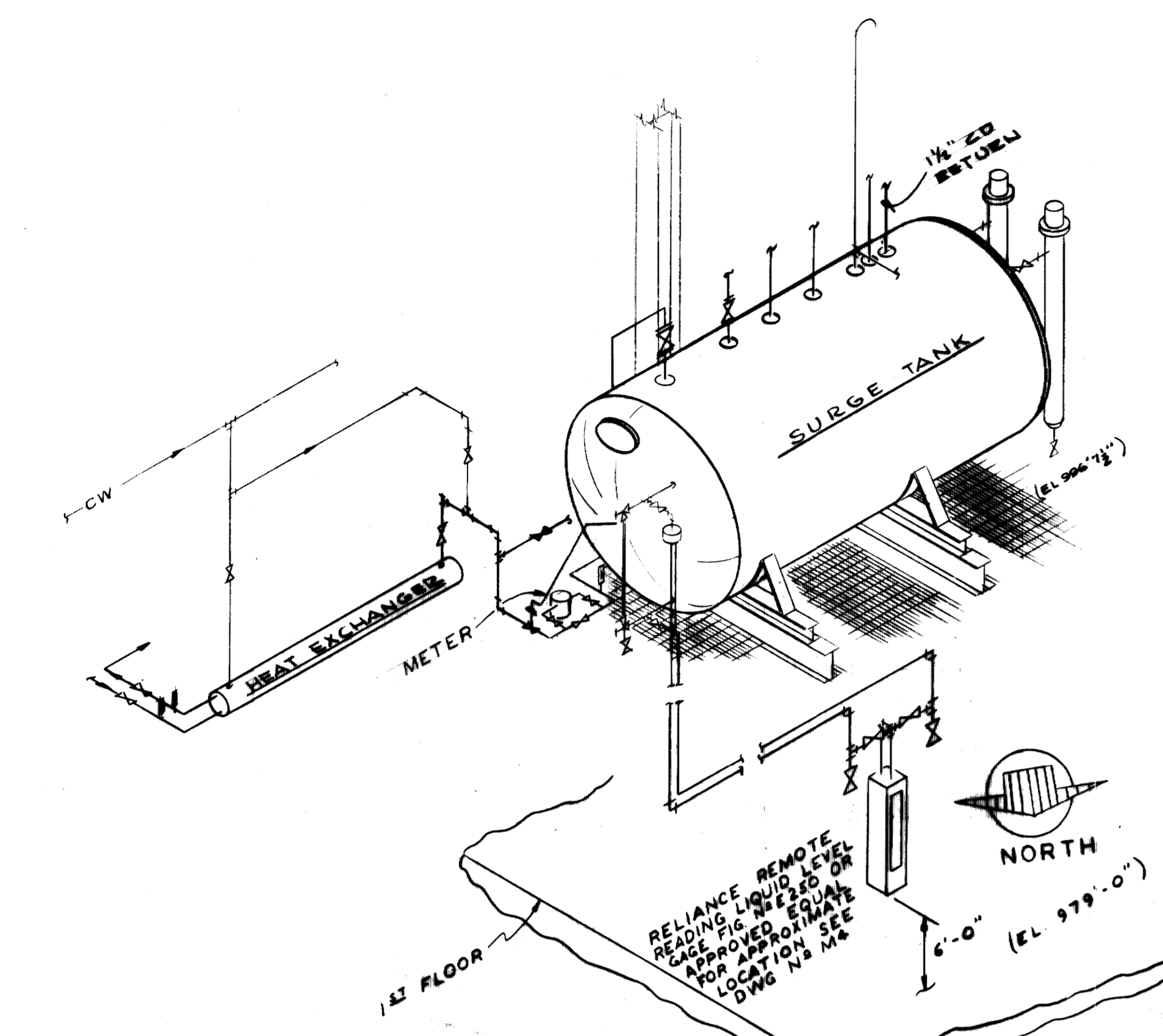
BOILER CHEMICAL FEED SYSTEM  
SCALE: 1/8" = 1'-0"

AS-BUILT DRAWING  
REVISIONS MADE DURING CONSTRUCTION  
HAVE BEEN INCLUDED ON THIS DRAWING  
MASON & HANGER - SILAS MASON CO., INC.  
BY GFS DATE 1-10-72  
CHANGED CHEMICAL FEED LINES  
FROM 1/2" TO 3/4"

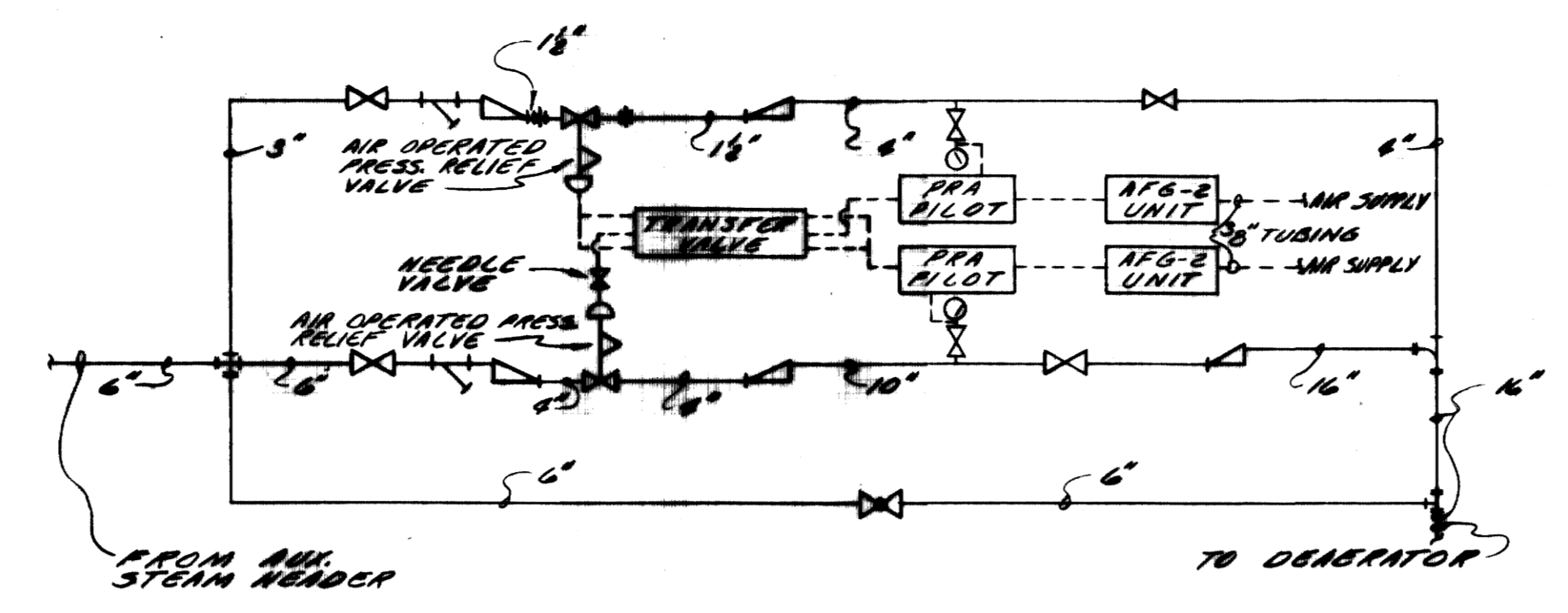


ADDITIONS & RENOVATIONS HEATING & COOLING PLANT - A. B. CHANDLER MEDICAL CENTER UNIVERSITY OF KENTUCKY LEXINGTON, KENTUCKY		
DRAWN BY <b>BOILER WATER TREATMENT</b>	DATE 5-28-70	
TRACED BY <b>MASON &amp; HANGER-SILAS MASON CO., INC.</b>	SCALE AS NOTED	
CHECKED BY GFS	1500 W. MAIN ST. LEXINGTON, KENTUCKY	SPEC. NO.
COMMONWEALTH OF KENTUCKY DEPARTMENT OF FINANCE DIVISION OF ENGINEERING FRANKFORT, KENTUCKY		DRAWING NO. M-13
APPROVED BY <i>O. J. Mitchell</i> AGENCY HEAD	DATE 5-28-70	
APPROVED BY <i>W. J. McConnell</i> DIRECTOR, DIVISION OF ENGINEERING	DATE 6-1-70	

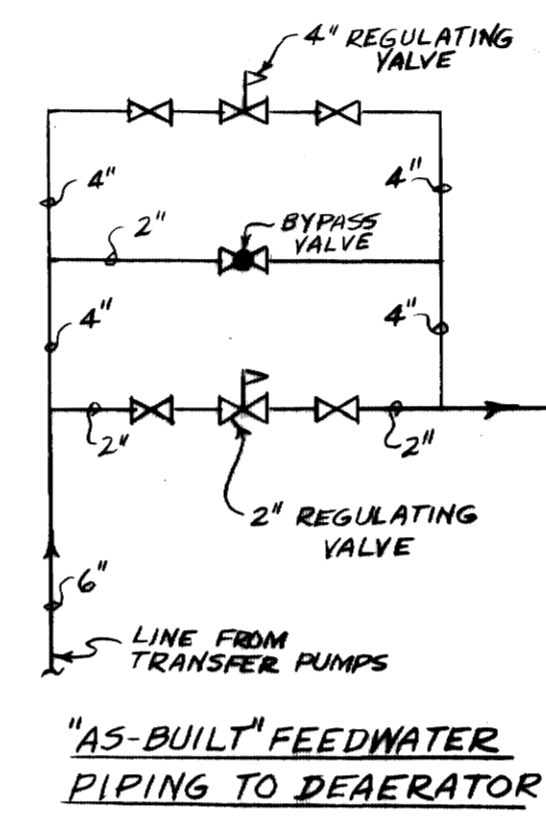




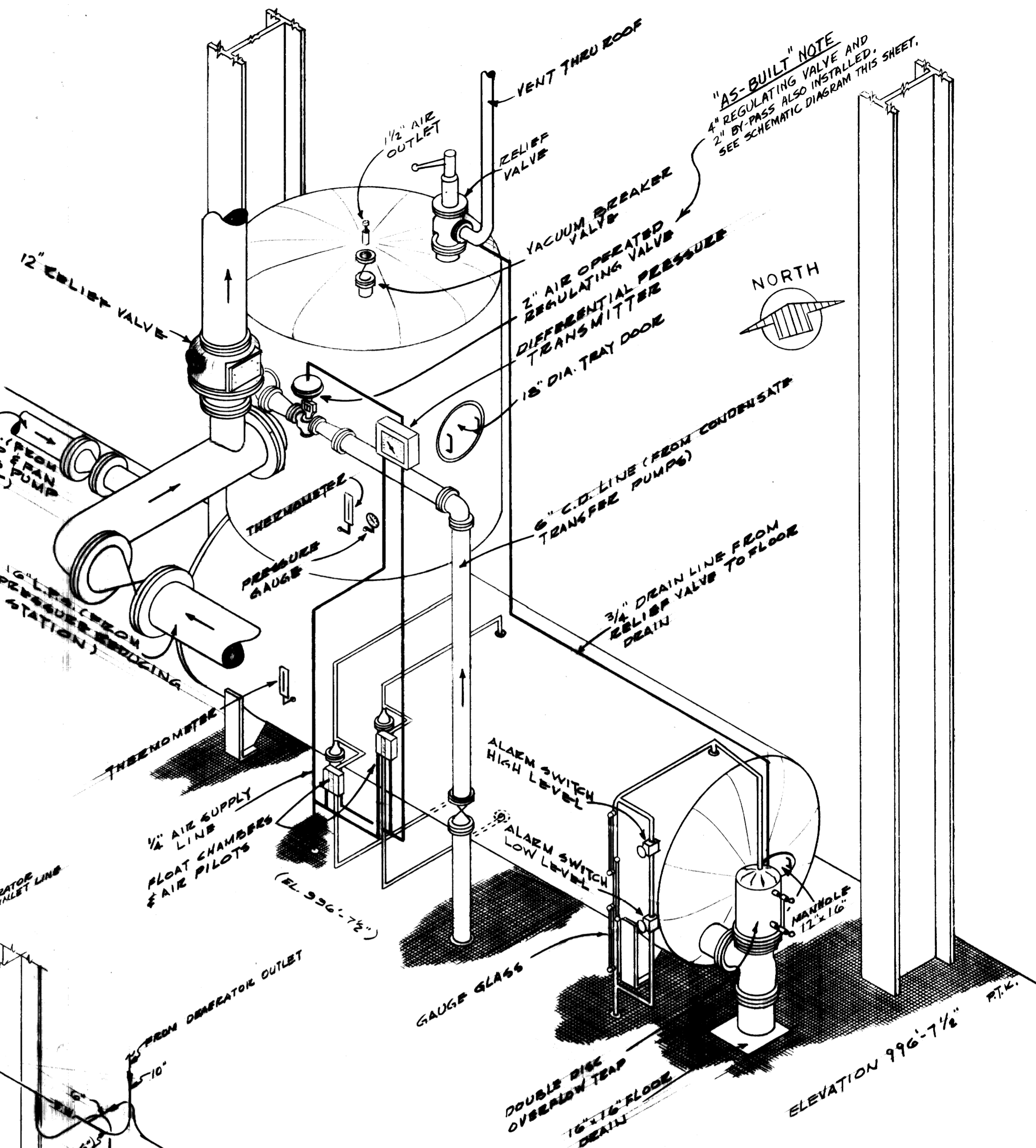
HEAT EXCHANGER & SURGE TANK DETAIL



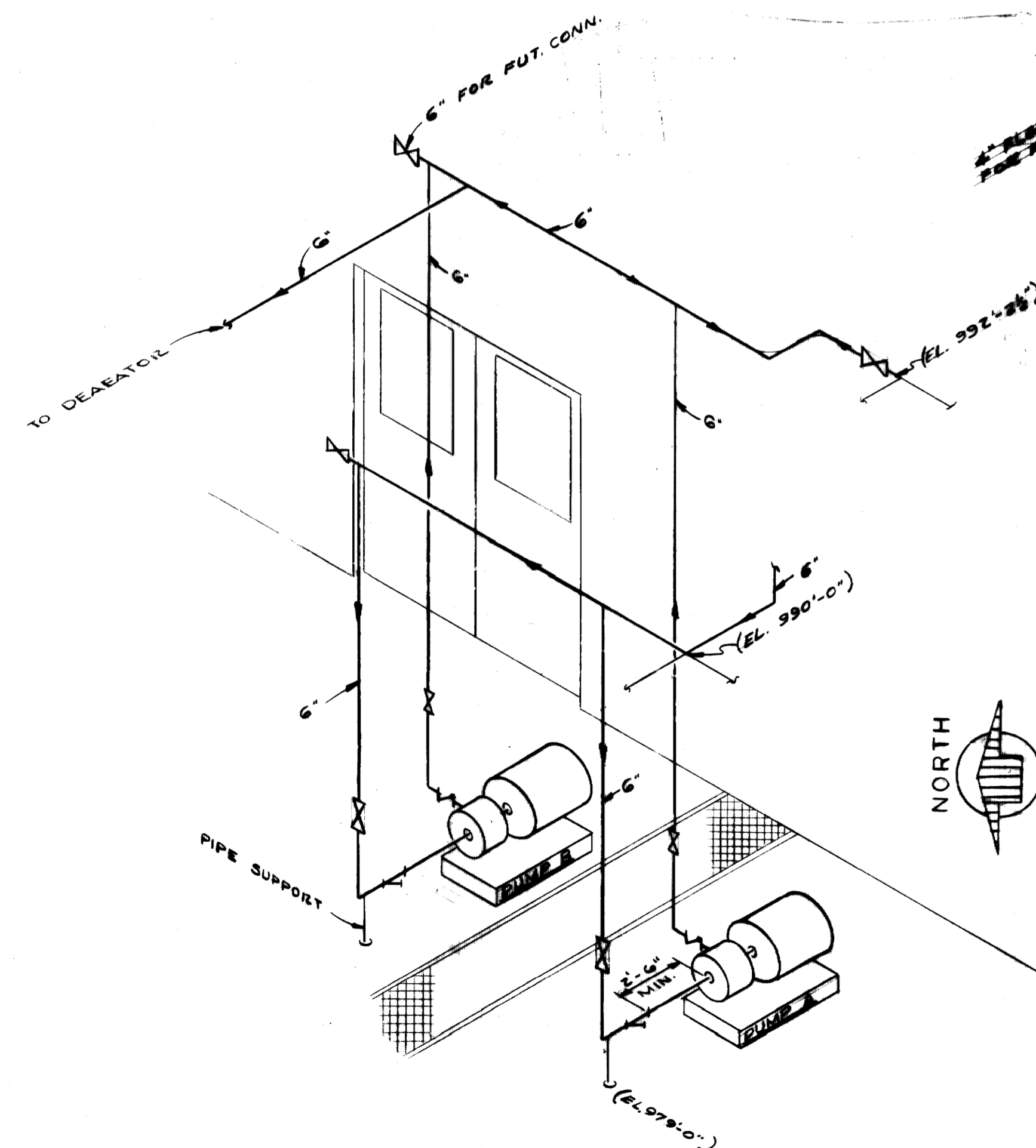
"STEAM PRESSURE REDUCING STATION"  
(ECCENTRIC REDUCERS ON HORIZ. PIPING)  
(DEAERATOR STEAM)



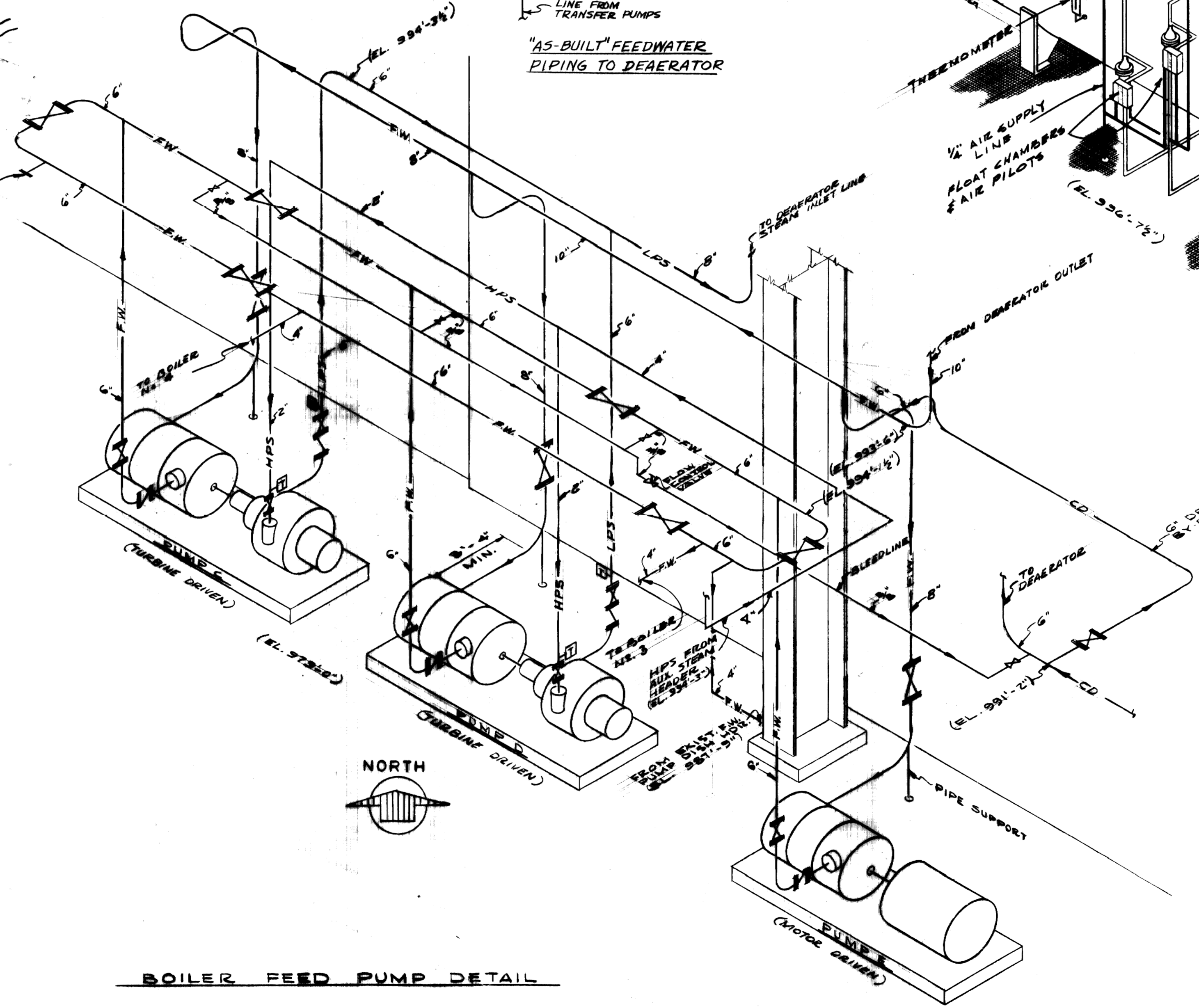
"AS-BUILT" FEEDWATER PIPING TO DEAERATOR



DEAERATOR DETAIL



CONDENSATE TRANSFER PUMP DETAIL



BOILER FEED PUMP DETAIL

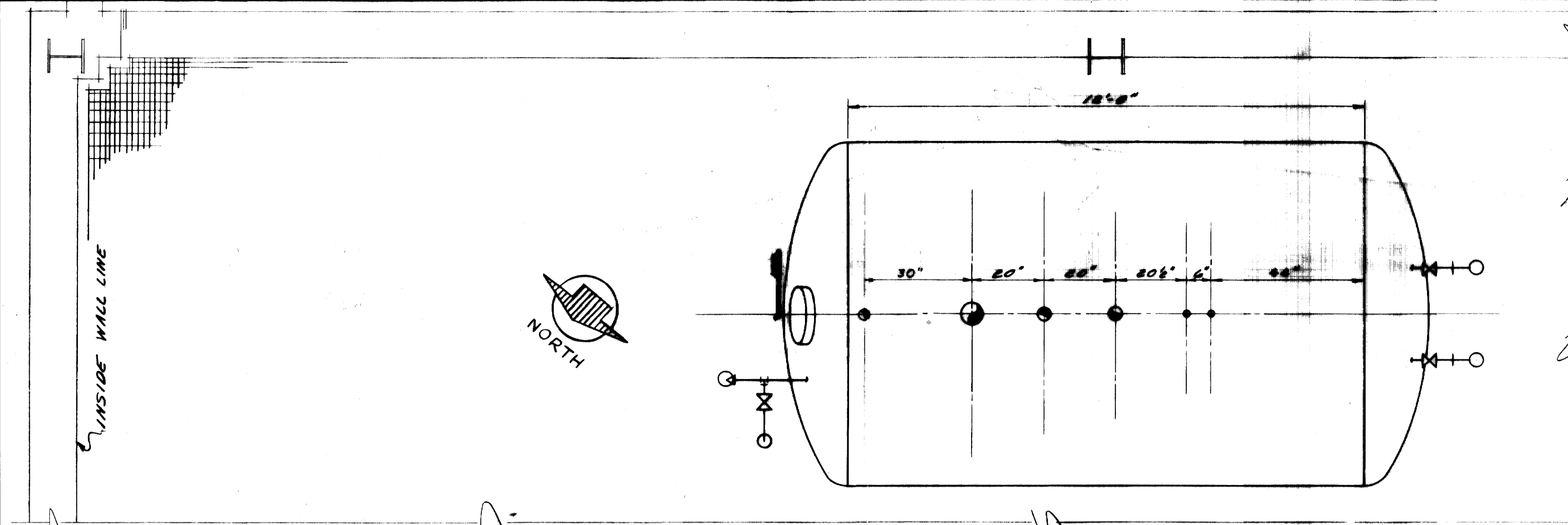
- NOTES
1. ALL ROTATING EQUIPMENT SHALL BE GROUTED WITH NON-SHRINKING GROUT
  2. REFER TO S.H. M.S. FOR INSTRUMENTATION

**AS-BUILT DRAWING**  
REVISIONS MADE DURING CONSTRUCTION HAVE BEEN INCLUDED ON THIS DRAWING  
MASON & HANGER - SILAS MASON CO., INC.  
DATE 1-10-72  
ADDED 4\"/>

ADDITIONS & RENOVATIONS HEATING & COOLING PLANT - A. B. CHANDLER MEDICAL CENTER UNIVERSITY OF KENTUCKY LEXINGTON, KENTUCKY		
DRAWN BY S.T.C.	<b>BOILER FEEDWATER SYSTEM</b>	DATE 5-28-70
TRACED BY	MASON & HANGER - SILAS MASON CO., INC. 1500 W. MAIN ST. LEXINGTON, KENTUCKY	SCALE 1/8\"/>
CHECKED BY GFS	COMMONWEALTH OF KENTUCKY DEPARTMENT OF FINANCE DIVISION OF ENGINEERING FRANKFORT, KENTUCKY	SPEC. NO. DRAWING NO. M-14

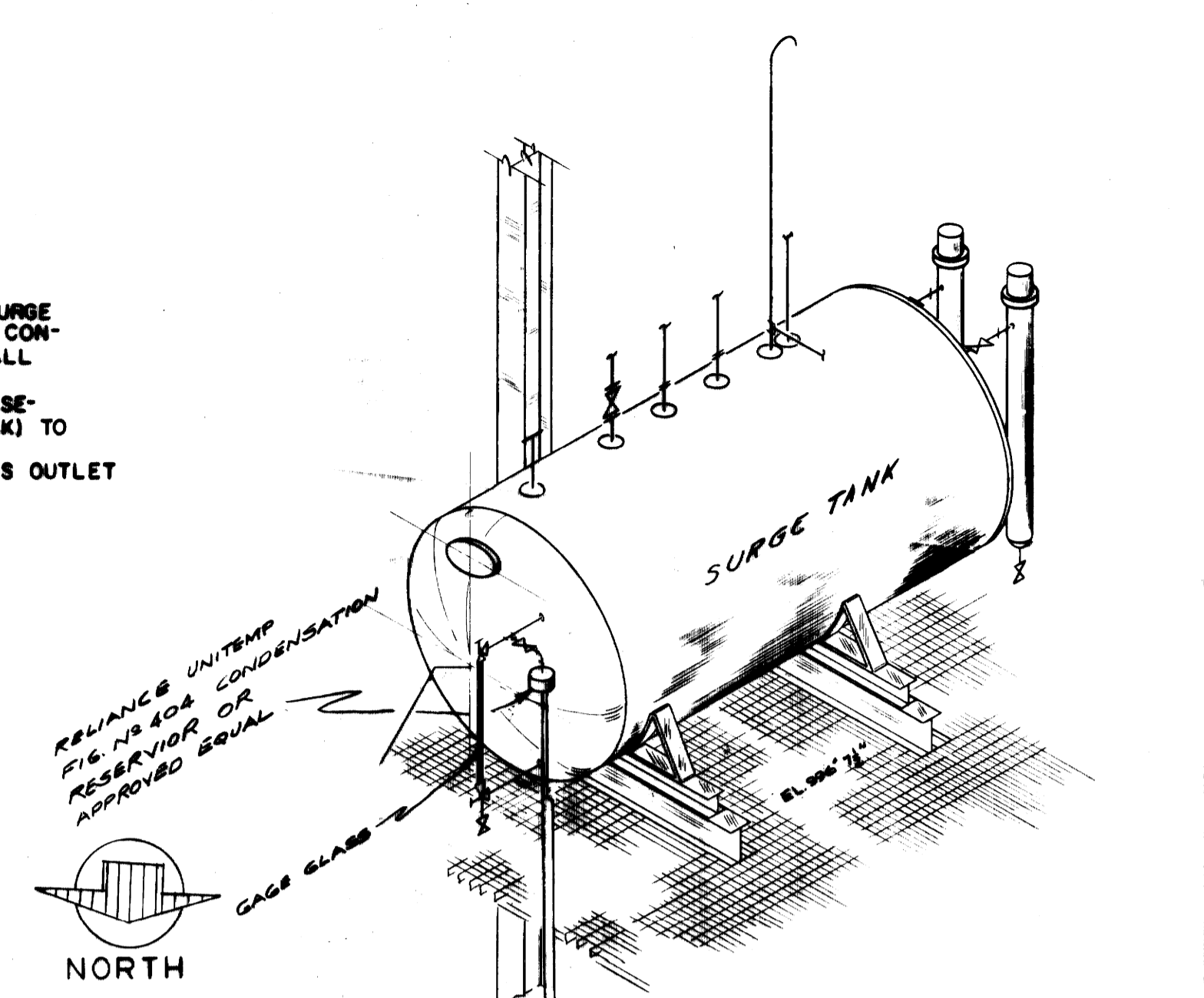
APPROVED BY: *[Signature]* DATE 5-28-70  
AGENCY HEAD  
APPROVED BY: *[Signature]* DATE 6-1-70  
DIRECTOR, DIVISION OF ENGINEERING



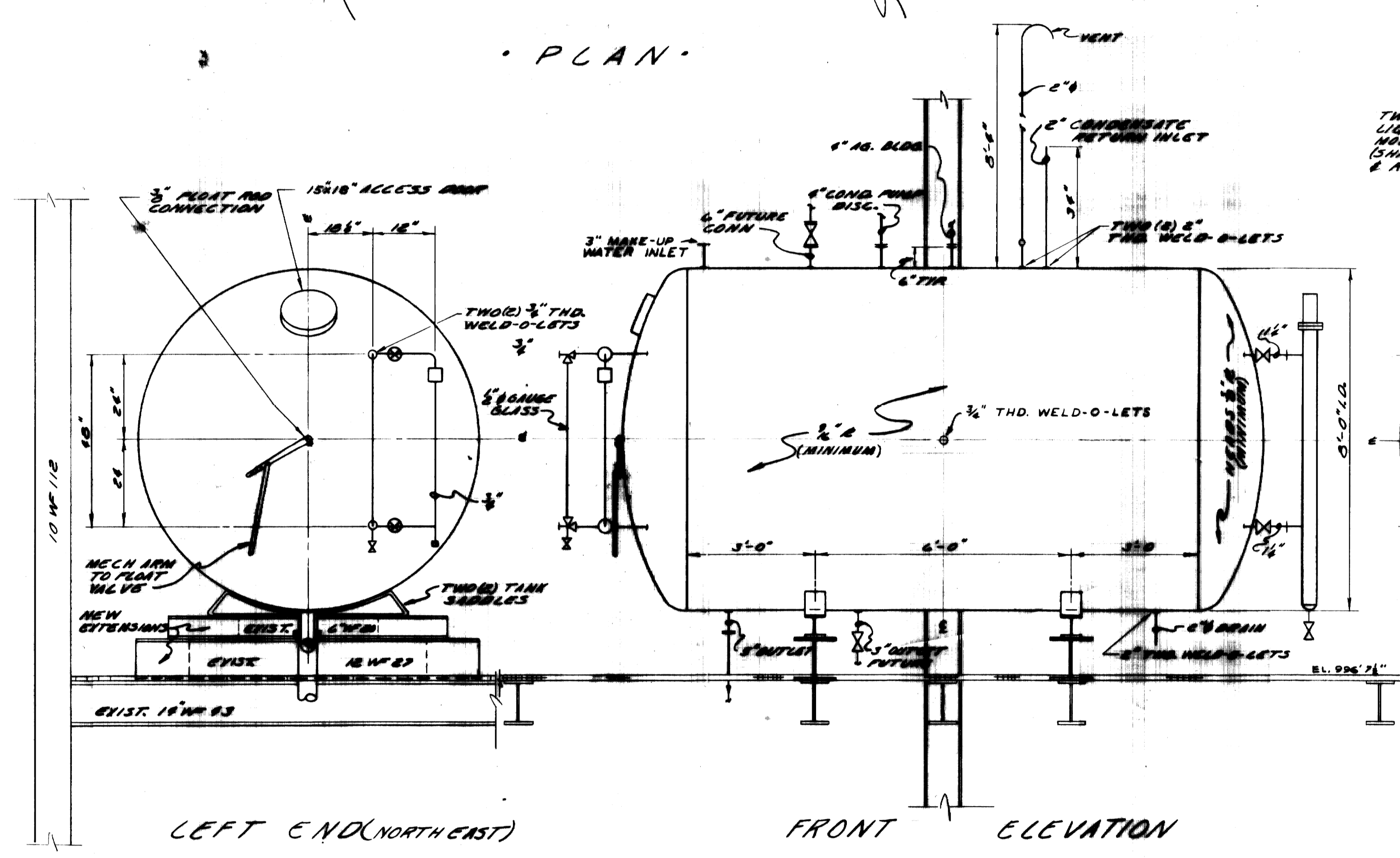


PLAN

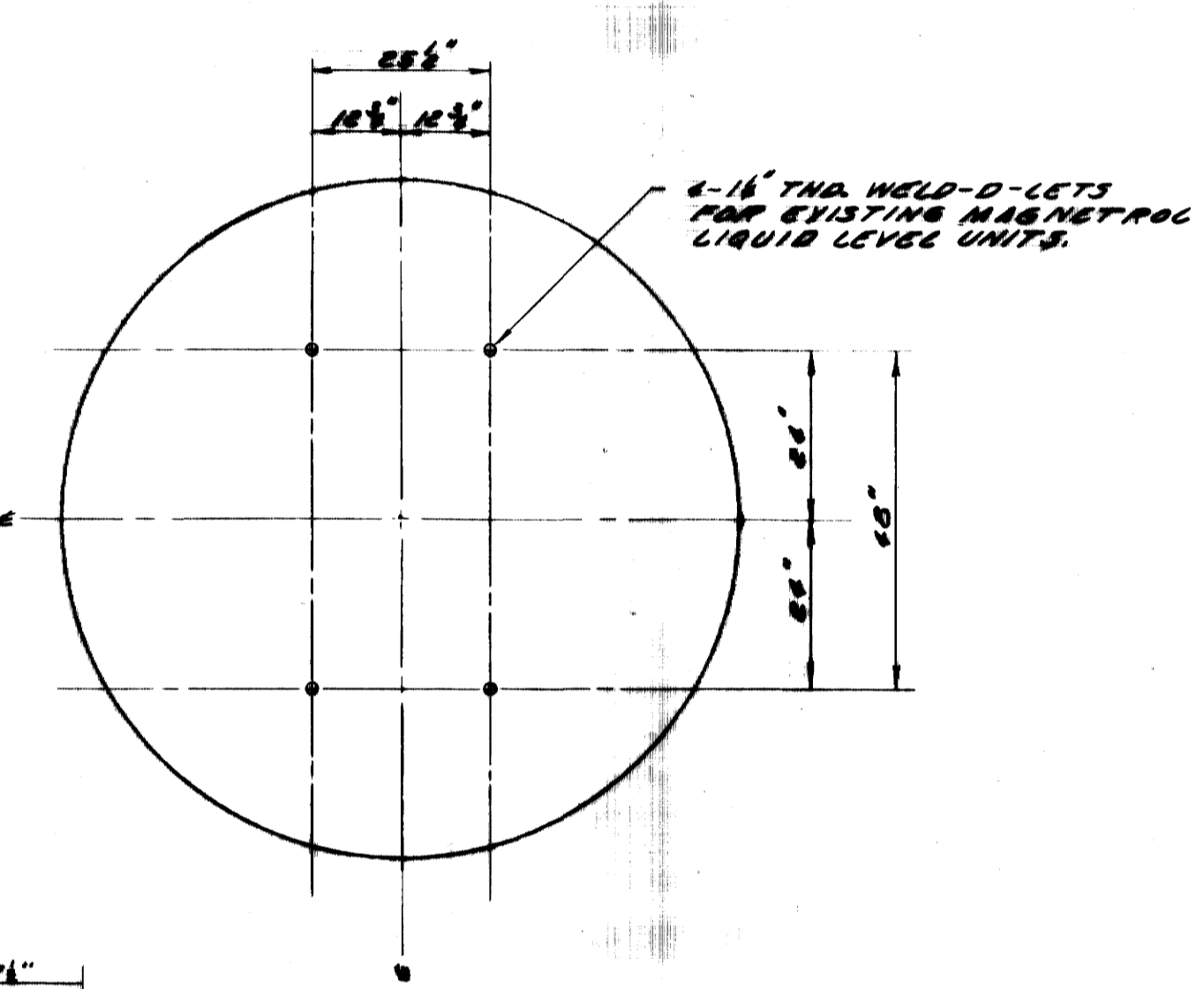
**NOTE**  
 WHILE REPLACING THE EXISTING SURGE TANK WITH THE NEW SURGE TANK, CONTRACTOR SHALL PROVIDE TEMPORARY PIPING TO PERMIT CONTINUOUS OPERATION OF EXISTING BOILERS. TEMPORARY PIPING SHALL INCLUDE:  
 (1) A 4" LINE FROM THE CONDENSATE LINE (DISCHARGING FROM BASEMENT SUMP AND CONNECTED TO TOP OF EXISTING SURGE TANK) TO THE EXISTING TRANSFER PUMPS INLET MANIFOLD.  
 (2) A 2" VALVED WATER LINE FROM THE EXISTING WATER SOFTENERS OUTLET MANIFOLD TO THE BASEMENT CONDENSATE PUMP SUMP.



**SURGE TANK & REMOTE READING LEVEL GAGE**  
 ISOMETRIC  
 SCALE 1/4" = 1'-0"



TWO (2) EXISTING MAGNETIC LIQUID LEVEL UNITS (MODEL A-33-1175) DESIGN 9 1/2" DIA. 18'-0" TANK (SHALL BE REMOVED FROM EXIST. 5'-0" DIA. 18'-0" TANK & REINSTALLED ON NEW 6'-0" DIA. 18'-0" TANK



RIGHT END (SOUTH WEST)

**SURGE TANK**  
 SCALE 1/2" = 1'-0"

AS-BUILT DRAWING	
REVISIONS MADE DURING CONSTRUCTION HAVE BEEN INCLUDED ON THIS DRAWING	
MASON & HANGER - SILAS MASON CO., INC.	
BY G.F.S.	DATE 1-10-72
NO REVISIONS	

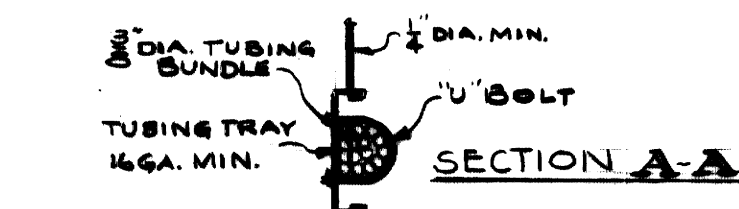


ADDITIONS & RENOVATIONS		
HEATING & COOLING PLANT - A. B. CHANDLER MEDICAL CENTER		
UNIVERSITY OF KENTUCKY		LEXINGTON, KENTUCKY
DRAWN BY R.L.S.	<b>SURGE TANK</b>	DATE 5-28-70
TRACED BY R.H.S.	MASON & HANGER - SILAS MASON CO., INC.	SCALE 1/4" = 1'-0"
CHECKED BY G.F.S.	1800 W. MAIN ST. LEXINGTON, KENTUCKY	SPEC. NO.
COMMONWEALTH OF KENTUCKY		DRAWING NO. M-15
DEPARTMENT OF FINANCE DIVISION OF ENGINEERING FRANKFORT, KENTUCKY		
APPROVED BY G.F. Spragens AGENCY HEAD	DATE 5-28-70	
APPROVED BY W.J. McConnell DIRECTOR, DIVISION OF ENGINEERING	DATE 6-1-70	

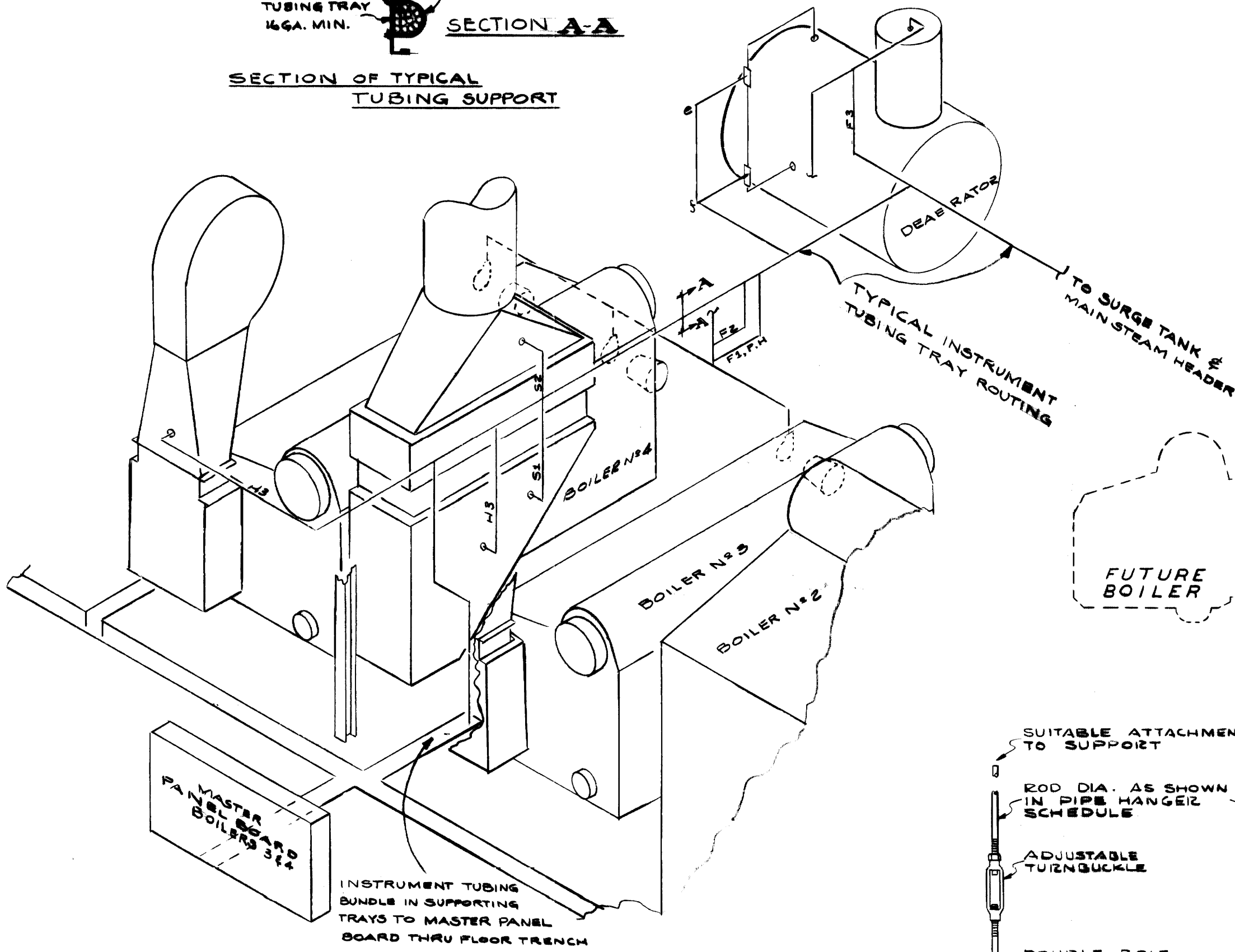
HANGER NO.	SHOWN ON DRAWING NO.	HANGER TYPE	ROD DIAM. (IN.)	SPRING K (LBS./IN.)	COLD HYDROSTATIC LOAD (LBS.)	HOT OPERATING LOAD (LBS.)	COLD TO HOT PIPE DEFLECTION UP (IN.)
2	M-9,10,16	SPRING-LOADED	1-1/2	800	6,650	4,661	1.08
11	"	"	1	217-1/2	2,035	1,602	0.80
14	"	"	1-1/2	800	6,200	4,384	1.08
22	"	"	1	217-1/2	2,035	1,602	0.80
36	"	"	3/4	70	793	557	0.60

HANGER NO.	SHOWN ON DRAWING NO.	HANGER TYPE	ROD DIAM. (IN.)
1	M-9,10,16	HORIZONTAL ROD	1/2
12	"	"	1/2
13	"	"	1/2
23	"	"	1/2
27	"	"	1/2
37	"	"	1/2
3	M-9,10,16	VERTICAL ROD	3/4
4	"	"	3/4
5	"	"	3/4
6	"	"	3/4
7	"	"	3/4
8	"	"	3/4
9	"	"	3/4
10	"	"	3/4
15	"	"	3/4
16	"	"	3/4
17	"	"	3/4
18	"	"	3/4
19	"	"	3/4
20	"	"	3/4
21	"	"	3/4
24	"	"	5/8
25	"	"	5/8
26	"	"	3/4
28	"	"	3/4
29	"	"	3/4
30	"	"	3/4
31	"	"	3/4
32	"	"	3/4
33	"	"	3/4
34	"	"	3/4
35	"	"	3/4
38	"	"	3/8
39	"	"	3/8
40	M-9,10	"	3/8
41	M-10	"	3/8
42	"	"	3/4
43	M-9,10	"	3/4
44	M-10	"	1/2
45	"	"	3/4
46	"	"	3/4
47	"	"	5/8
48	"	"	1
49	"	"	3/4
50	"	"	3/4
51	"	"	3/4
52	"	"	3/4
53	"	"	3/4
54	"	"	3/4
55	M-9,10	"	3/4
56	M-10	"	5/8
57	"	"	5/8
58	M-9	"	1/2
59	"	"	1/2
60	"	"	1/2
61	"	"	1/2

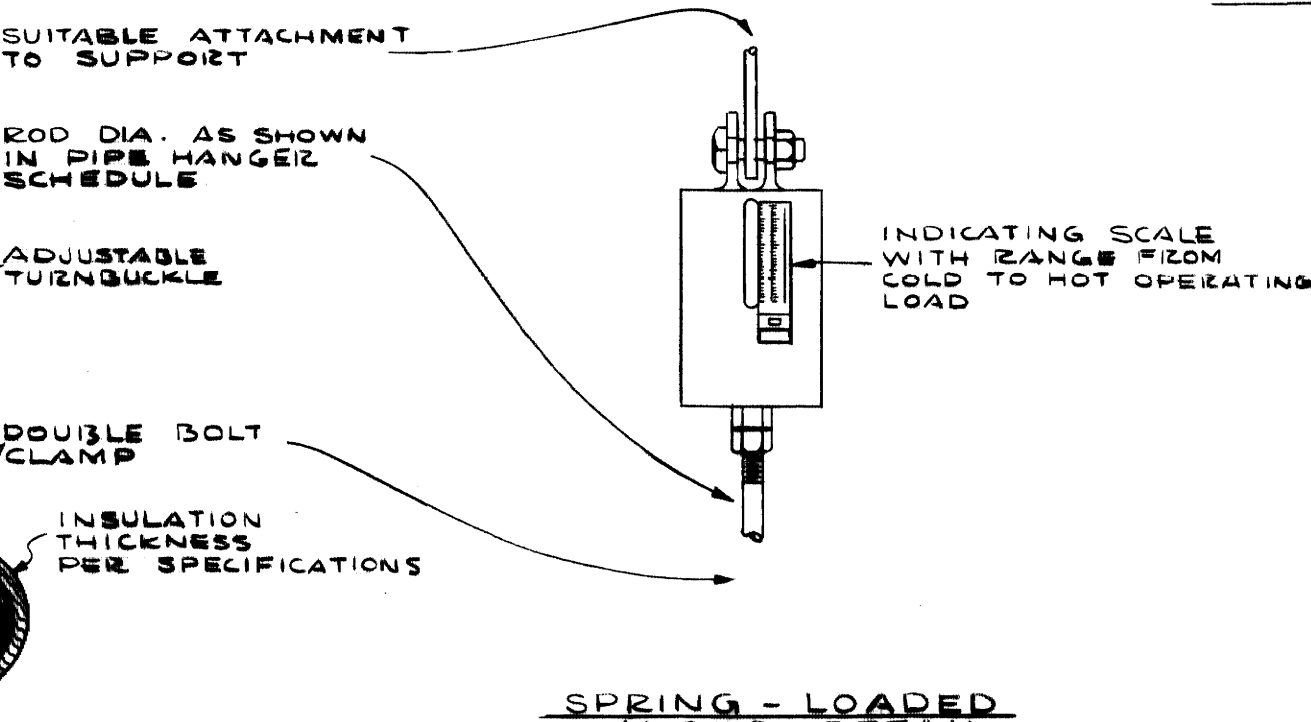
- NOTES**
- HANGERS INDICATED ON DRAWINGS ARE MINIMUM REQUIRED ON MAINS AND CERTAIN BRANCHES. CONTRACTOR SHALL FURNISH SUPPORTING STEEL, SUPPORTS AND HANGERS FOR ALL NEW AND RELOCATED PIPING WITH SIZES AND SPACING CONFORMING WITH SPECIFICATIONS.
  - ALL STEAM AND CONDENSATE LINES TO BE PITCHED DOWN 1/4" PER FOOT IN DIRECTION OF FLOW.
  - ALL INSTRUMENT COPPER TUBING AND HIGH PRESSURE STEEL TUBING SHALL BE CONTINUOUSLY SUPPORTED BY TRAYS, CHANNELS, Z-BARS OR RACKS OF 1/2" GAUGE MINIMUM THICKNESS WITH REINFORCED BOLT CONNECTIONS. CONTRACTOR SHALL FURNISH ALL HANGER RODS AND SUPPORTS WITH 1/2" MINIMUM ROD DIAMETER AND SUPPORT SPACING 4' MAXIMUM.
  - REFER TO SH. M-8 FOR INSTRUMENTATION.
  - ALL PIPE HANGER ASSEMBLIES TO BE HEAVY DUTY RIGID TYPE AS MANUFACTURED BY POWER PIPING, GRINNELL, BERGEN-PATERSON OR APPROVED EQUAL.
  - COLD HYDROSTATIC CONDITION IS COLD PIPE FILLED WITH WATER WITH NO INSULATION.
  - HOT OPERATING CONDITION IS INSULATED PIPE FILLED WITH STEAM AT 250 PSI AND 500°F.
  - SPRING-LOADED HANGERS ARE TO BE PROVIDED WITH INDICATING SCALE WITH RANGE FROM COLD TO HOT OPERATING LOAD.
  - FORCES ON BOILER OUTLETS SHALL NOT EXCEED 1000 LBS. AND 4000 FT.-LBS. MOMENT.
  - HANGERS 2 & 14 SHALL BE CONTINUOUSLY MONITORED FOR LOAD CHANGES BETWEEN COLD HYDROSTATIC AND HOT OPERATING CONDITIONS TO INSURE LOAD LIMITS ON BOILER CONNECTIONS ARE NOT EXCEEDED.



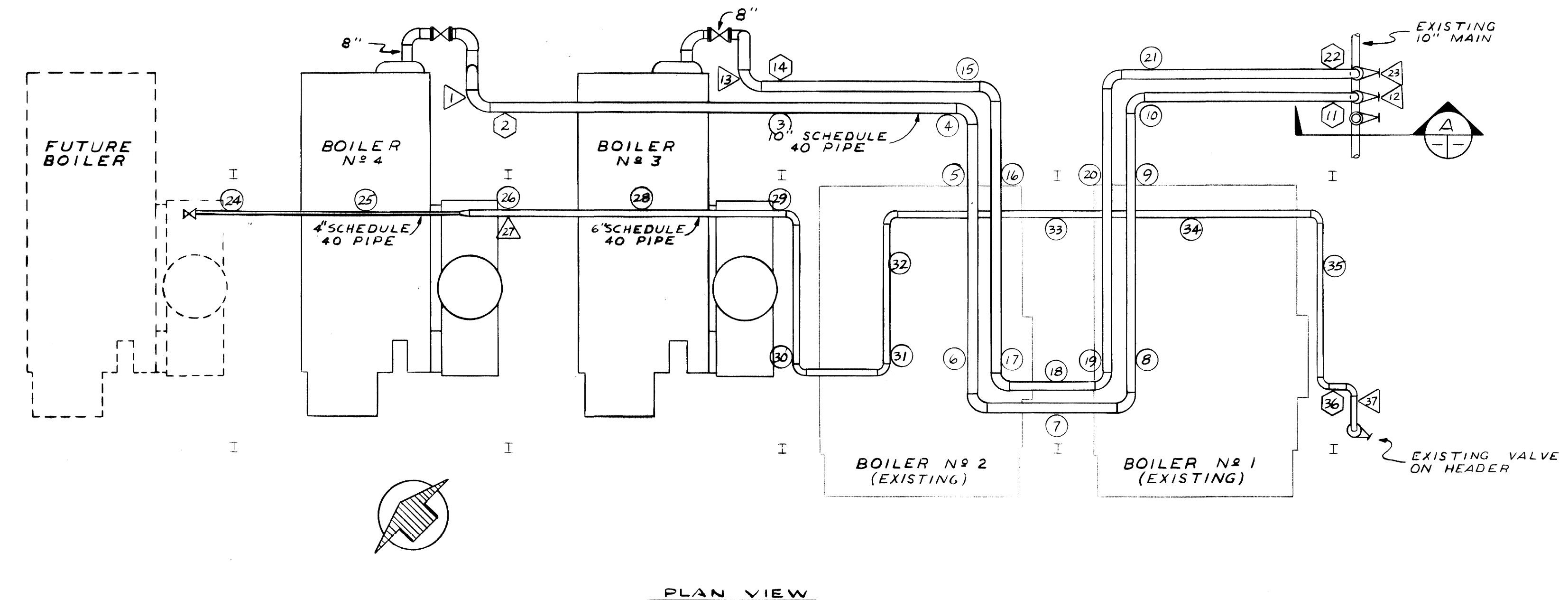
**SECTION OF TYPICAL TUBING SUPPORT**



**PARTIAL INSTRUMENT TUBING TRAY SUPPORT (NO SCALE)**



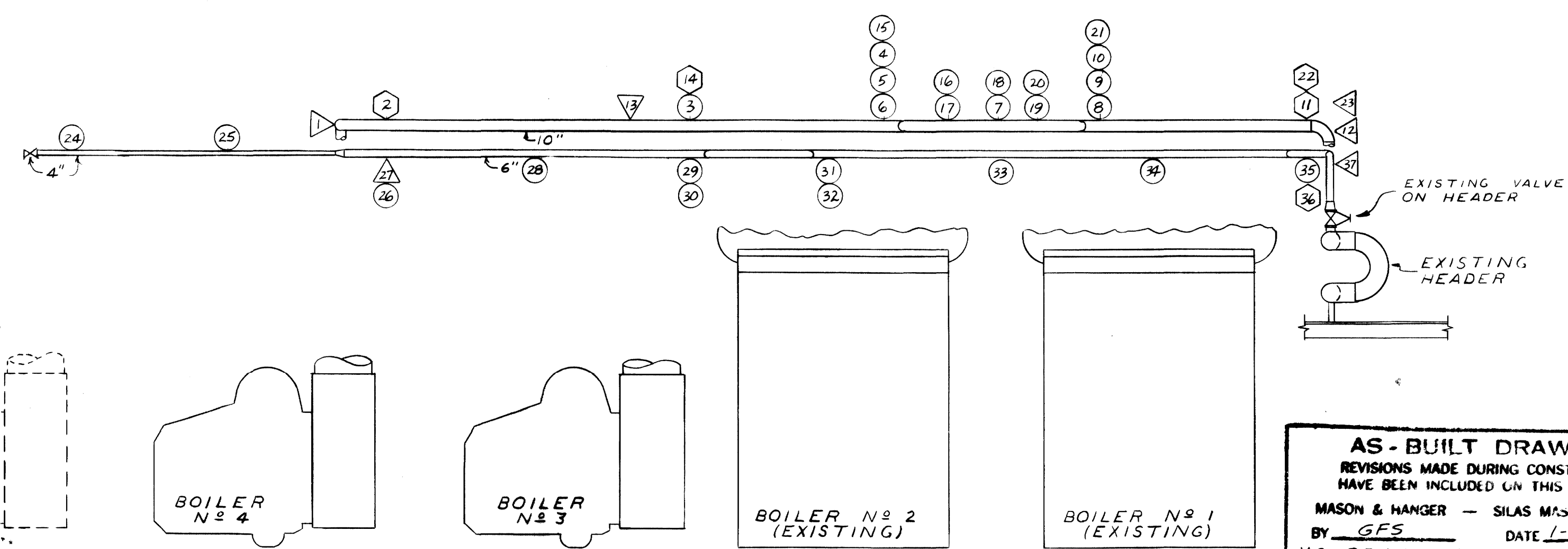
**HORIZONTAL OR VERTICAL ROD HANGER DETAIL (NO SCALE)**



**PLAN VIEW**

**HANGER LEGEND**

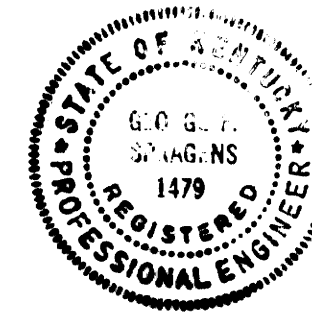
- FIGURE - HANGER NO & LOCATION
- HORIZONTAL ROD HANGER (PERMITS VERTICAL MOVEMENT) [Symbol]
- VERTICAL SPRING-LOADED HANGER [Symbol]
- VERTICAL ROD HANGER [Symbol]

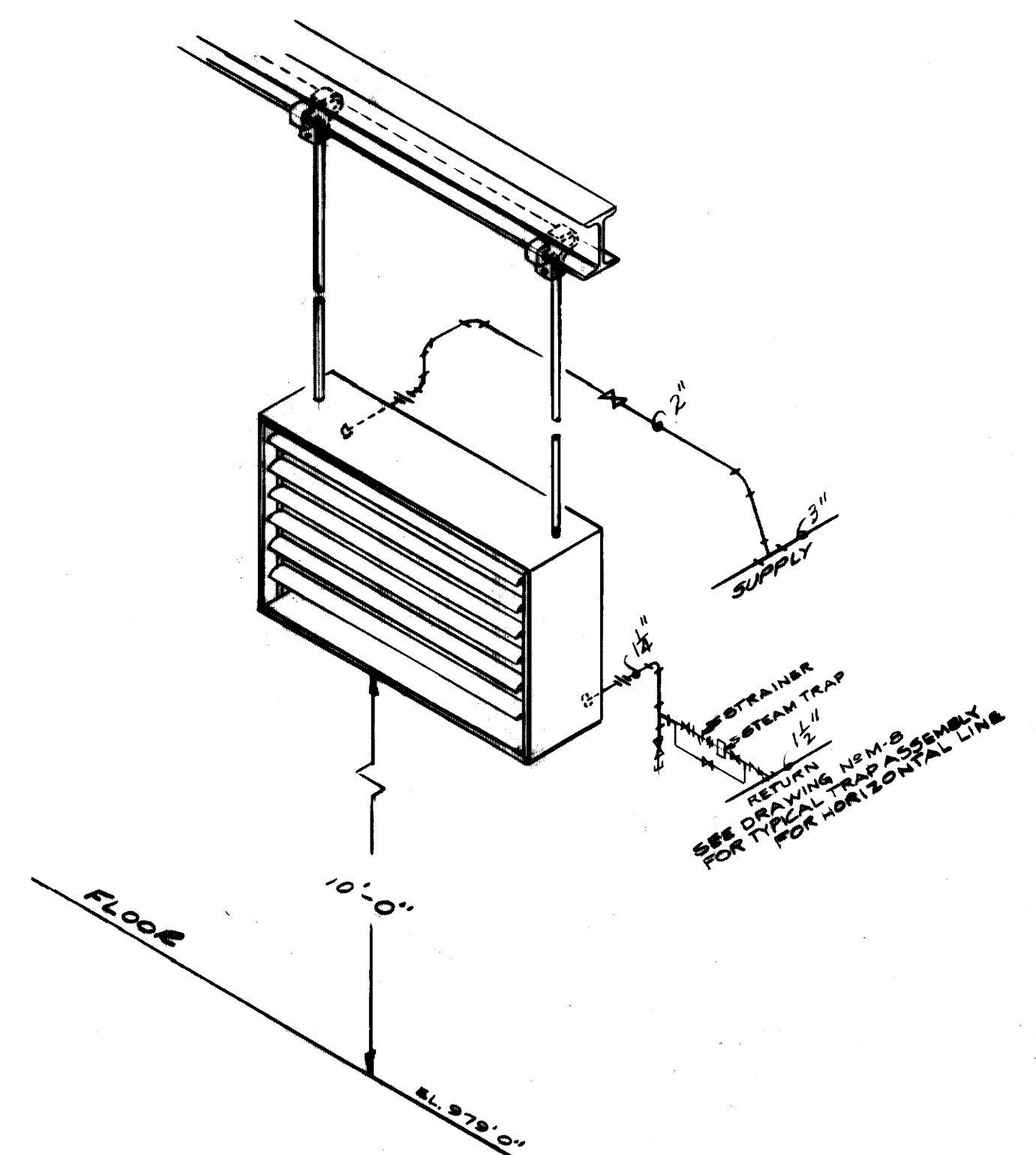


**ELEVATION**  
**NEW STEAM MAINS (SCALE: 1/8" = 1'-0")**

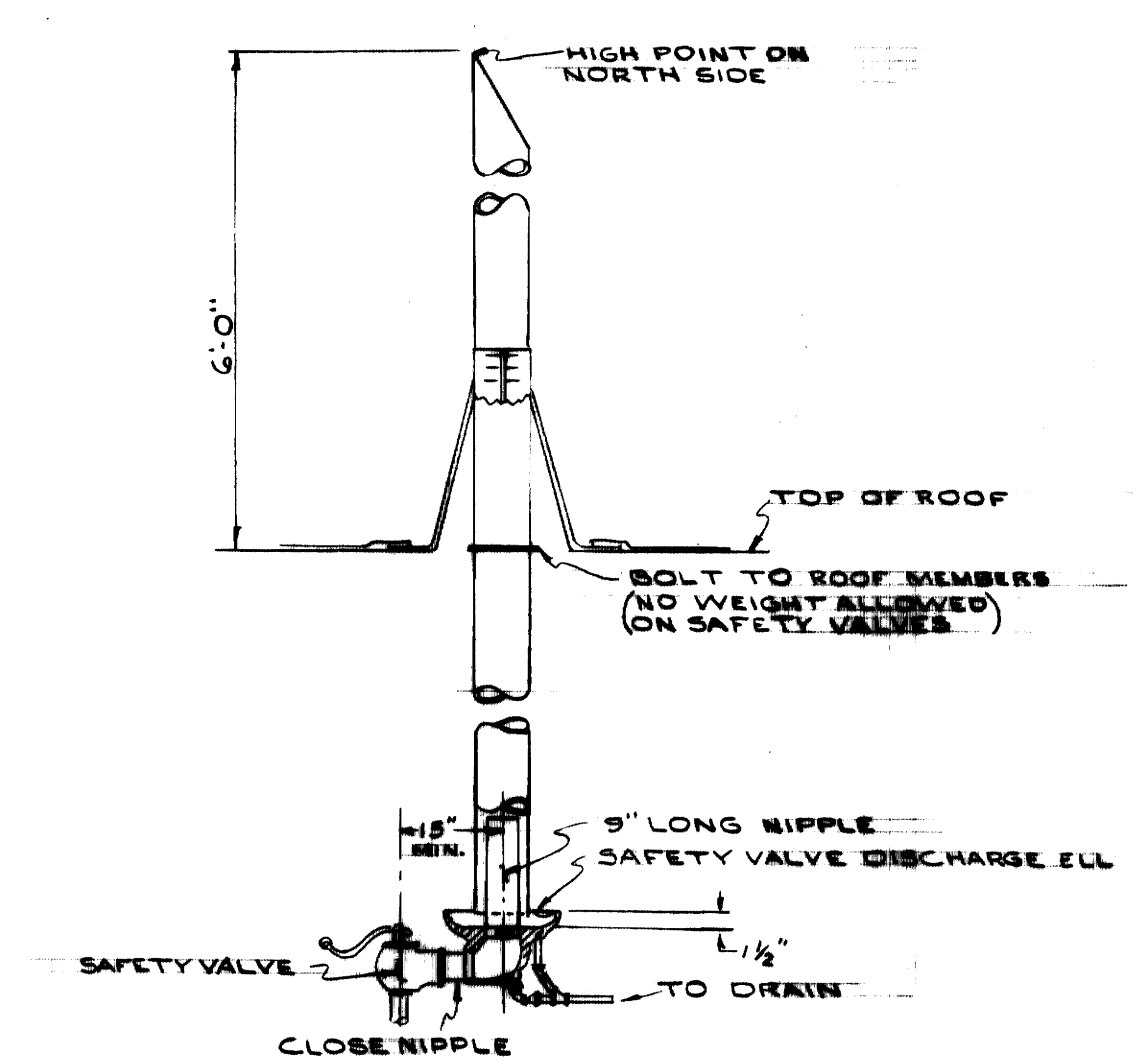
**AS-BUILT DRAWING**  
REVISIONS MADE DURING CONSTRUCTION HAVE BEEN INCLUDED ON THIS DRAWING  
MASON & HANGER - SILAS MASON CO., INC.  
BY: GFS DATE: 1-10-72  
NO REVISIONS

ADDITIONS & RENOVATIONS		DATE
HEATING & COOLING PLANT - A. B. CHANDLER MEDICAL CENTER		5-28-70
UNIVERSITY OF KENTUCKY LEXINGTON, KENTUCKY		SCALE
DRAWN BY ALLEN	PIPE SUPPORT DETAILS	1/8" = 1'-0"
TRACED BY	MASON & HANGER - SILAS MASON CO., INC.	SPEC. NO.
CHECKED BY GFS	1500 W. MAIN ST. LEXINGTON, KENTUCKY	DRAWING NO.
COMMONWEALTH OF KENTUCKY		M-16
DEPARTMENT OF FINANCE		
DIVISION OF ENGINEERING		
FRANKFORT KENTUCKY		
APPROVED BY <i>J. Marshall</i>	DATE 5-28-70	
APPROVED BY <i>B. J. Mc Connell</i>	DATE 6-1-70	
DIRECTOR, DIVISION OF ENGINEERING		

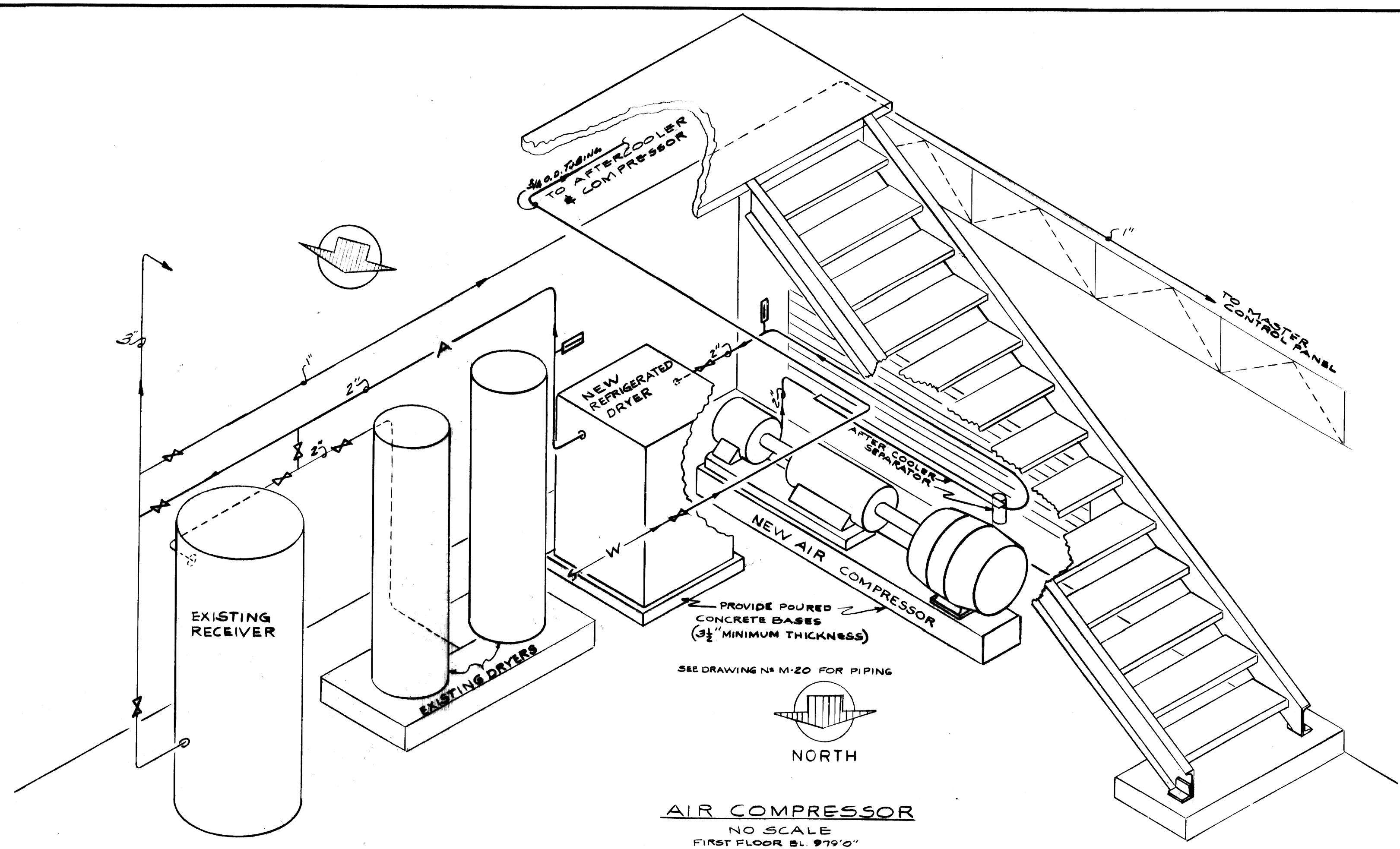




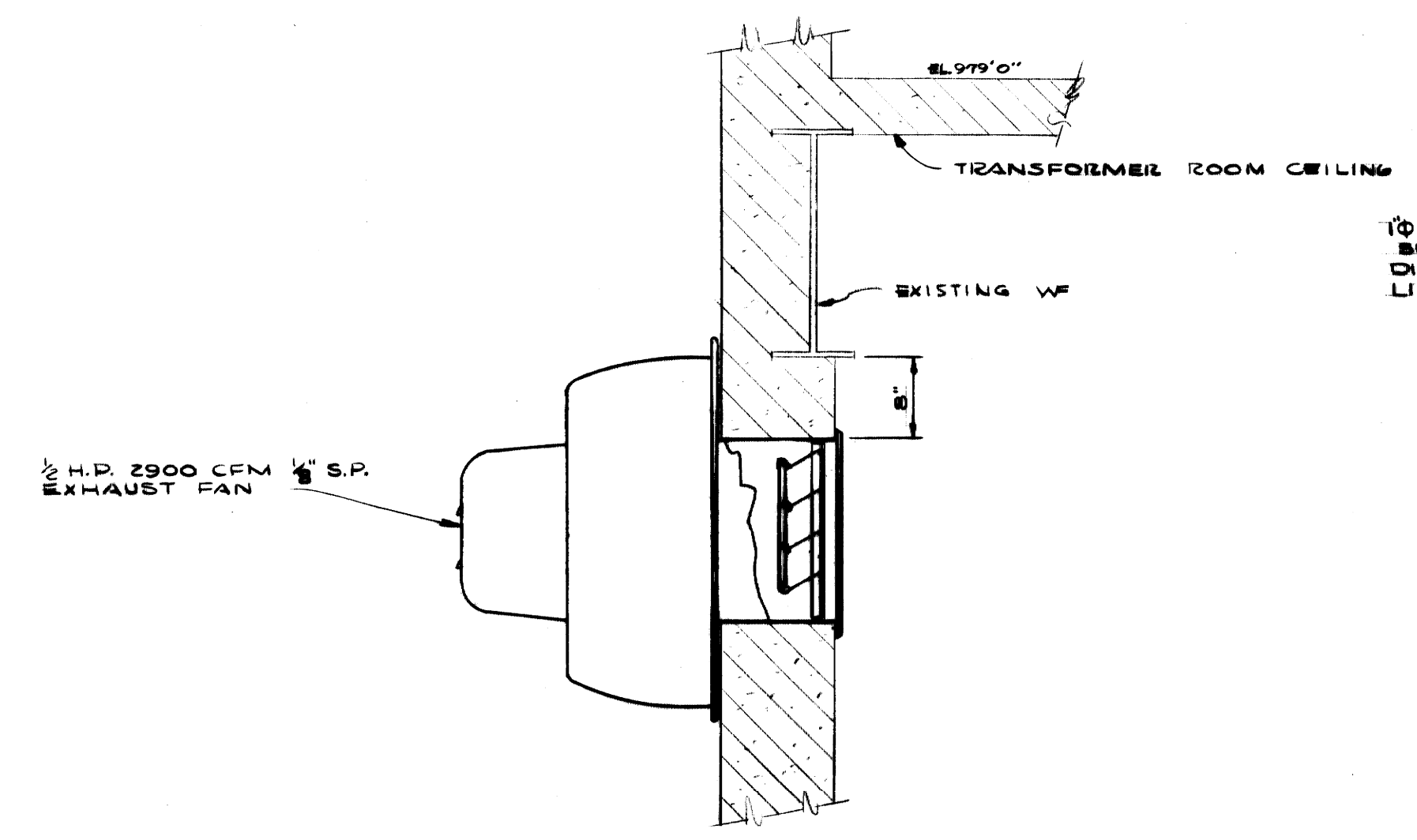
ISOMETRIC VIEW OF TYPICAL UNIT HEATER INSTALLATION  
NO SCALE



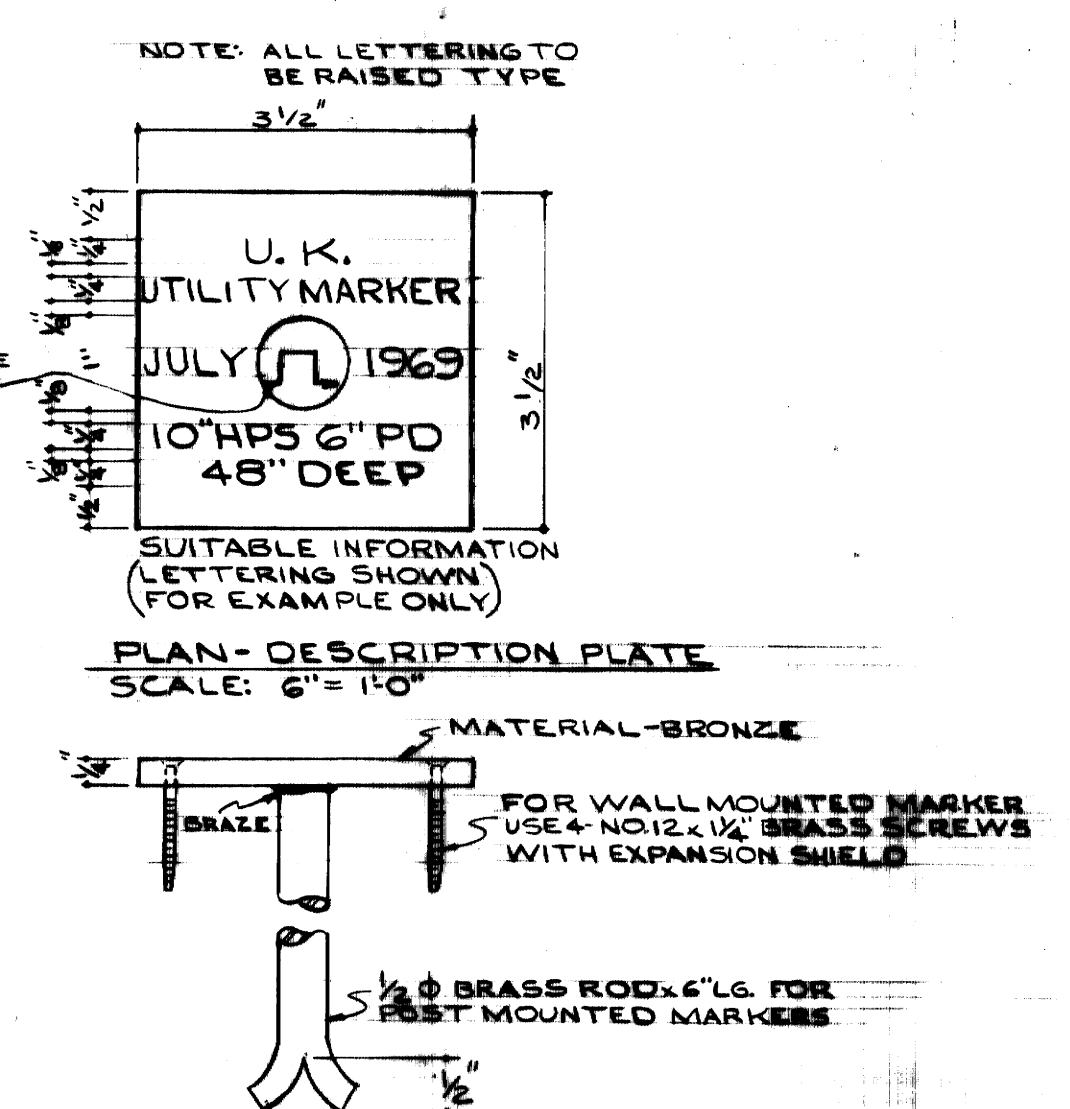
TYPICAL RELIEF VALVE VENT  
SCALE - NONE



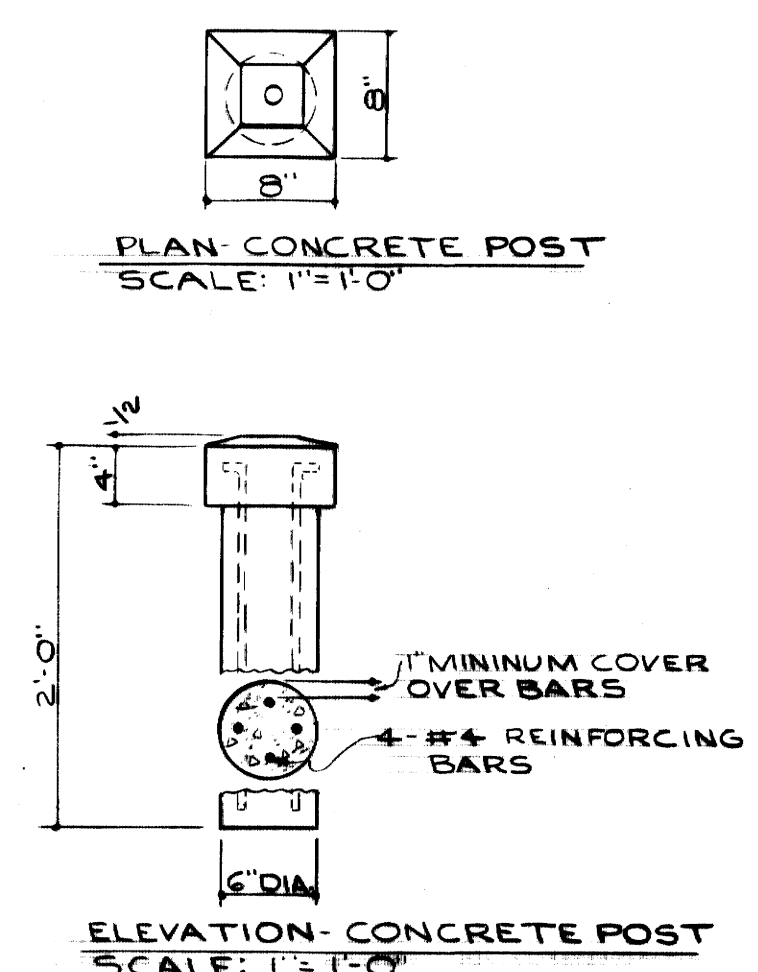
AIR COMPRESSOR  
NO SCALE  
FIRST FLOOR EL. 979'0"



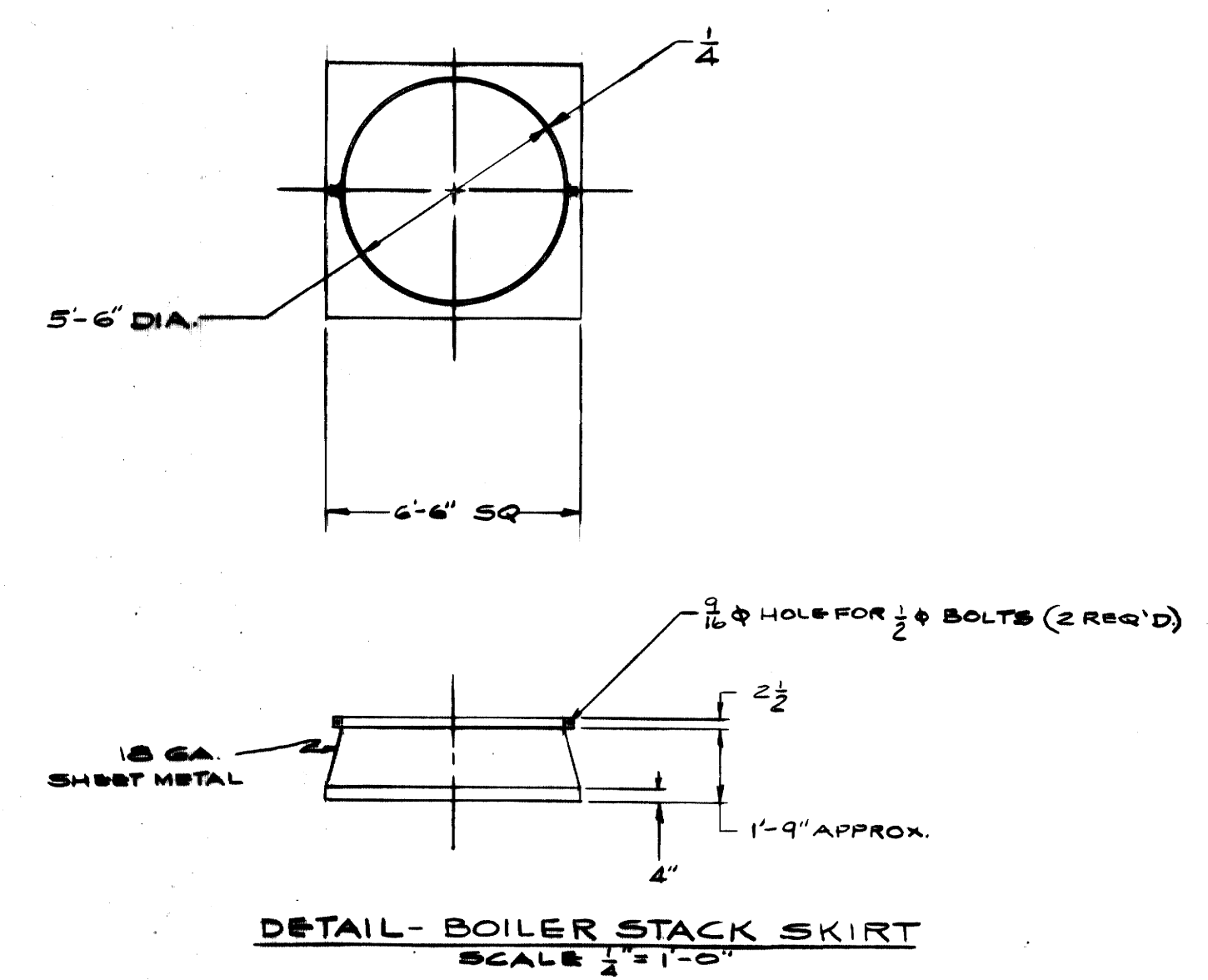
EXHAUST FAN SECTION  
NO SCALE



TYPICAL UTILITY MARKER  
(SEE DRAWINGS B-1, B-2 & M-2 FOR REQUIRED LOCATIONS)



ELEVATION - CONCRETE POST  
SCALE: 1\"/>

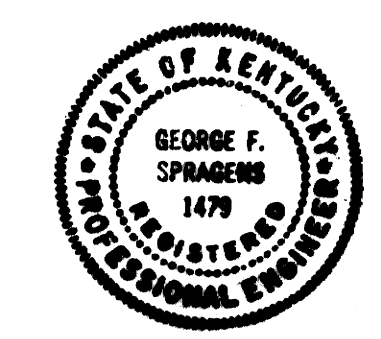


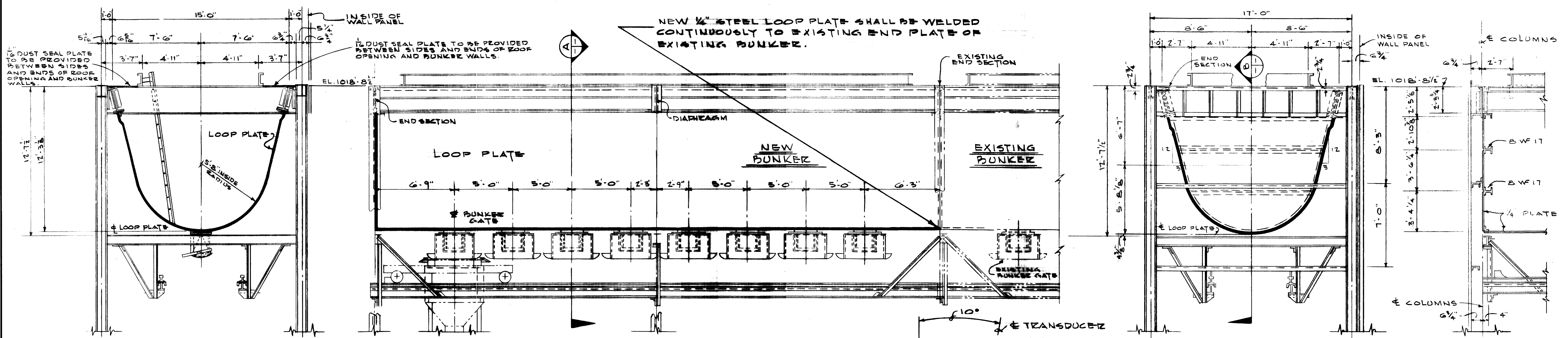
DETAIL - BOILER STACK SKIRT  
SCALE 1/2\"/>

AS-BUILT DRAWING  
REVISIONS MADE DURING CONSTRUCTION  
HAVE BEEN INCLUDED ON THIS DRAWING  
MASON & HANGER - SILAS MASON CO., INC.  
BY GFS DATE 1-10-72  
NO REVISIONS

NOTE: ALL ROTATING EQUIPMENT SHALL BE GROUTED WITH NON-SHRINK GROUT.

ADDITIONS & RENOVATIONS		
HEATING & COOLING PLANT - A. B. CHANDLER MEDICAL CENTER		
UNIVERSITY OF KENTUCKY		LEXINGTON, KENTUCKY
DRAWN BY	HEATING, VENTILATING, COMPRESSION AIR & DETAILS	DATE 5-28-70
TRACED BY	MASON & HANGER - SILAS MASON CO., INC.	SCALE AS NOTED
CHECKED BY	GFS	SPEC. NO.
COMMONWEALTH OF KENTUCKY		DRAWING NO.
DEPARTMENT OF FINANCE		M-17
DIVISION OF ENGINEERING		
FRANKFORT, KENTUCKY		
APPROVED BY	<i>G. F. Spangenberg</i>	DATE 5-28-70
AGENCY HEAD		
APPROVED BY	<i>W. T. McConnell</i>	DATE 6-1-70
DIRECTOR, DIVISION OF ENGINEERING		



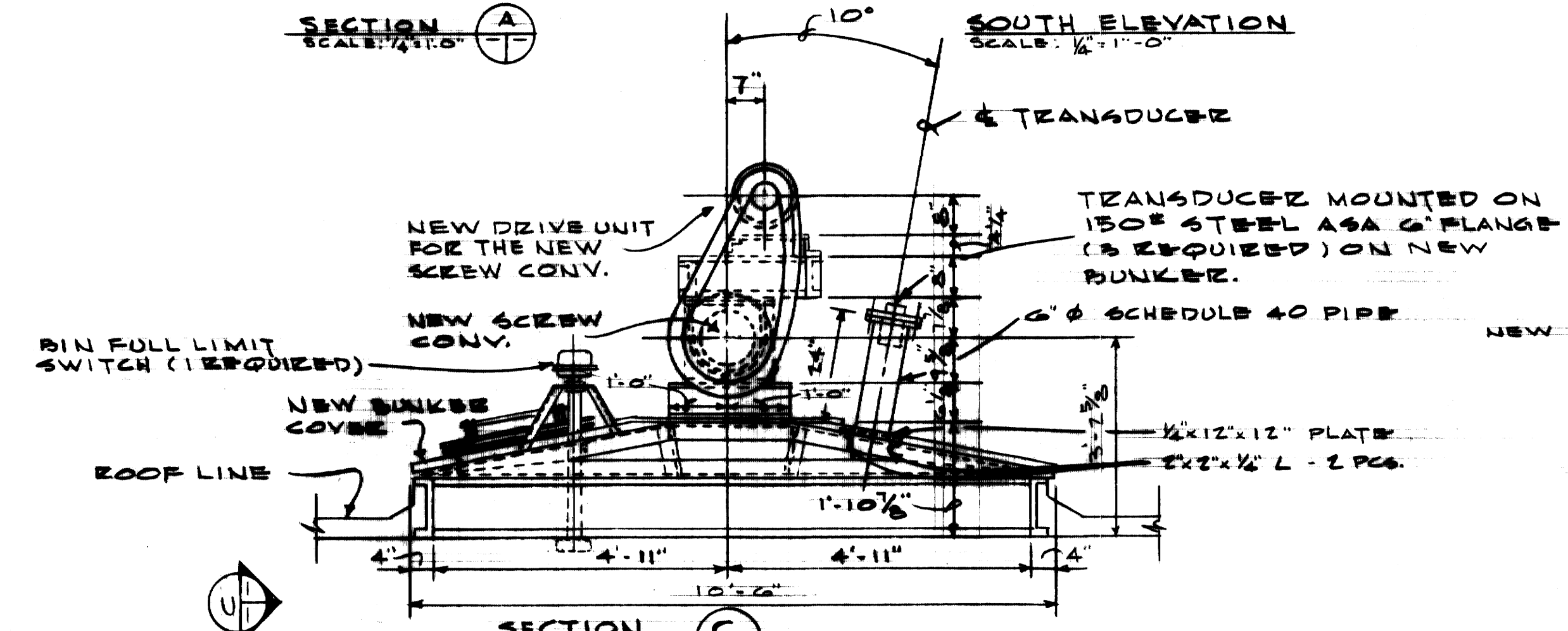


SECTION A  
SCALE: 1/4" = 1'-0"

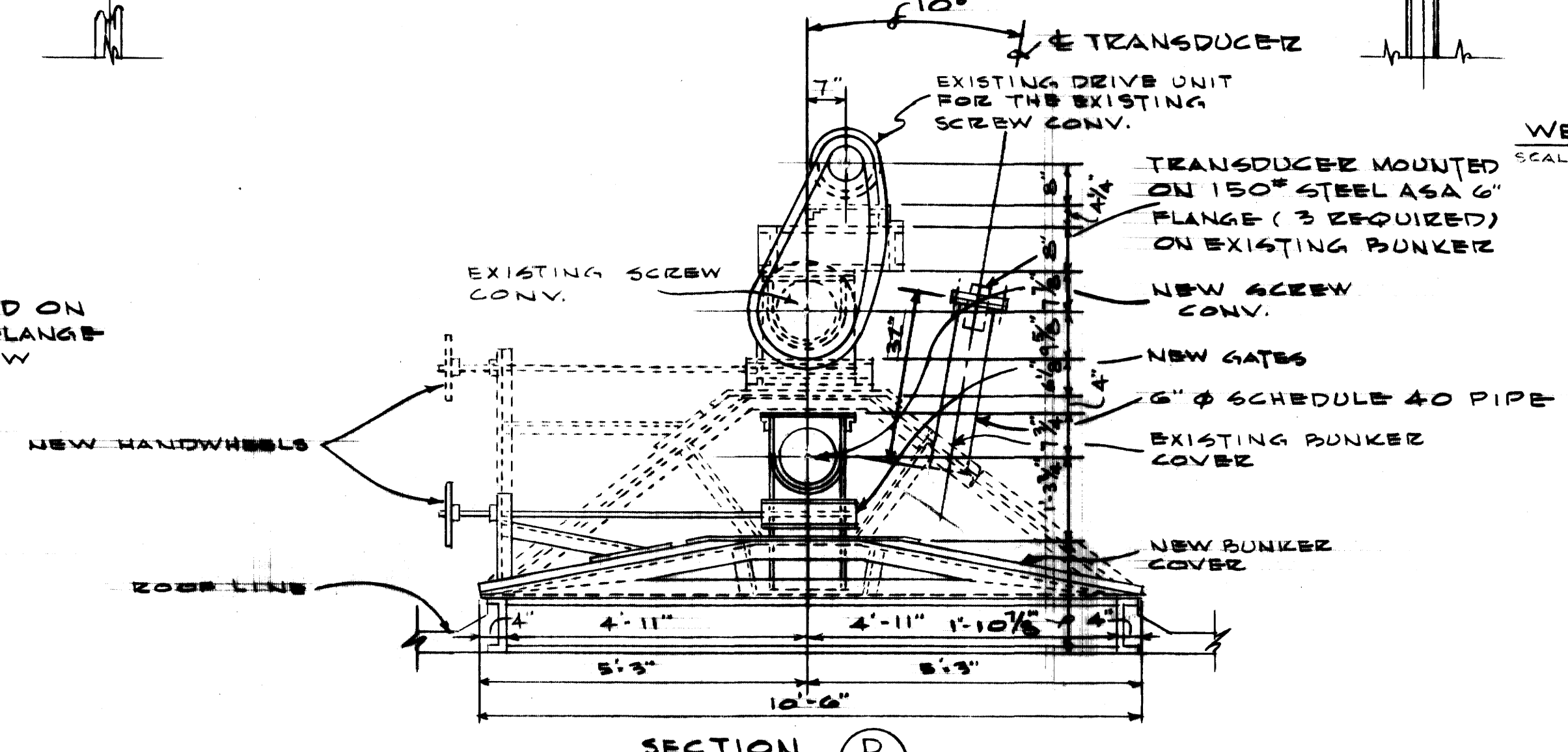
SOUTH ELEVATION  
SCALE: 1/4" = 1'-0"

WEST END ELEVATION  
SCALE: 1/4" = 1'-0"

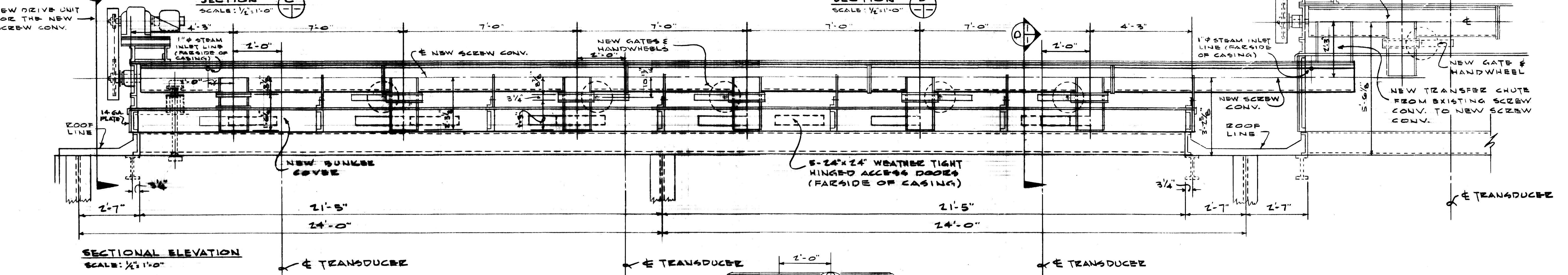
SECTION B  
SCALE: 1/4" = 1'-0"



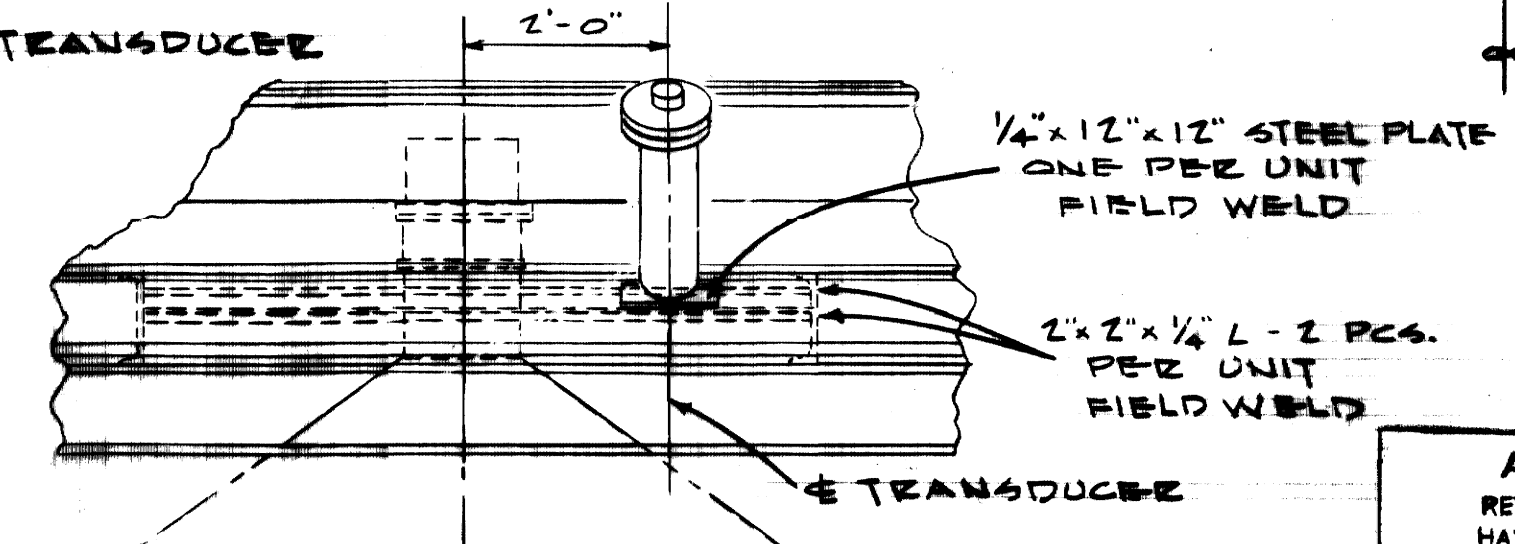
SECTION C  
SCALE: 1/2" = 1'-0"



SECTION D  
SCALE: 1/2" = 1'-0"



SECTIONAL ELEVATION  
SCALE: 1/4" = 1'-0"

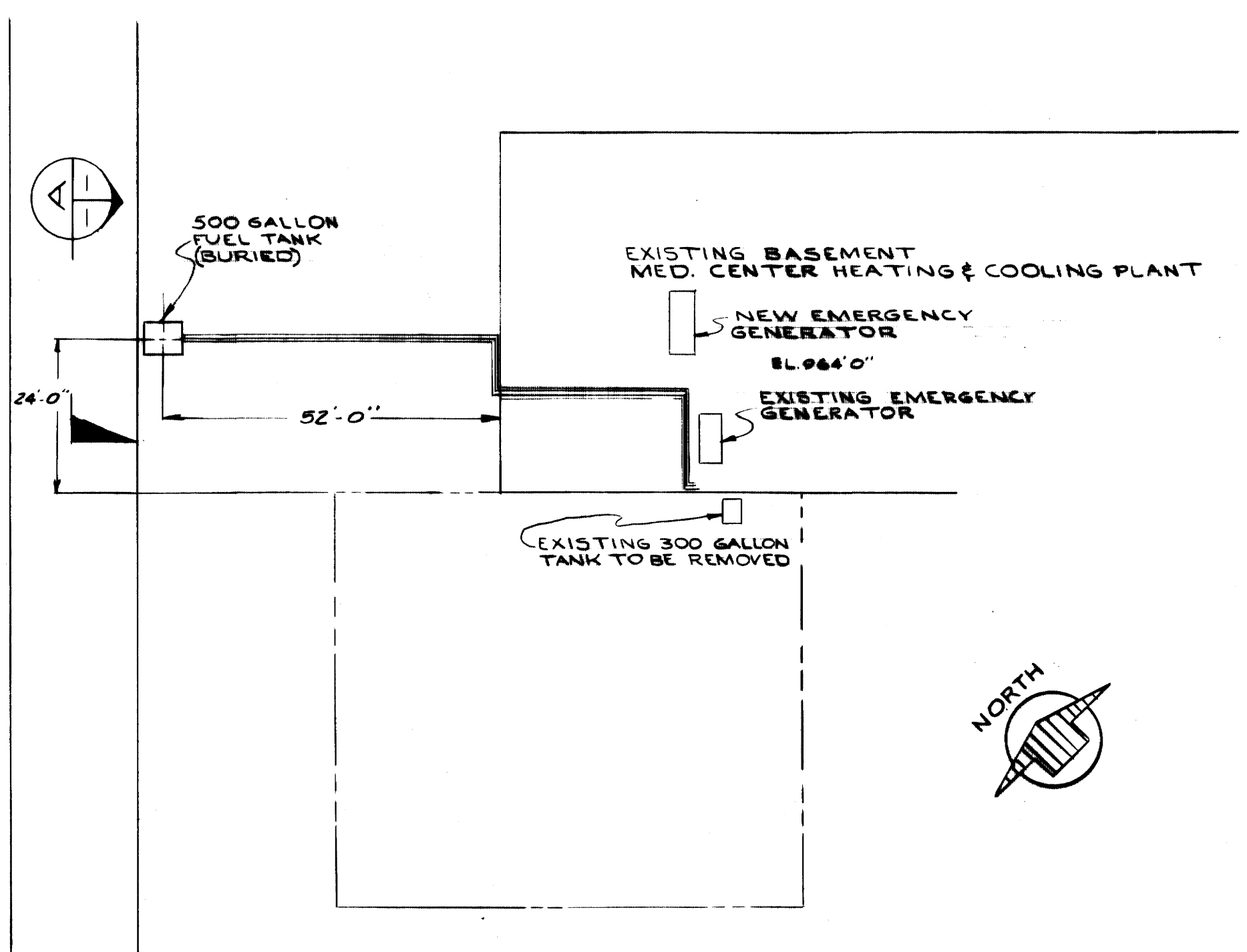


AUXILIARY VIEW  
TYPICAL TRANSDUCER INSTALLATION  
SCALE: 1/4" = 1'-0"

AS-BUILT DRAWING  
REVISIONS MADE DURING CONSTRUCTION  
HAVE BEEN INCLUDED ON THIS DRAWING  
MASON & HANGER - SILAS MASON CO., INC.  
BY GFS DATE 1-10-72  
NO REVISIONS

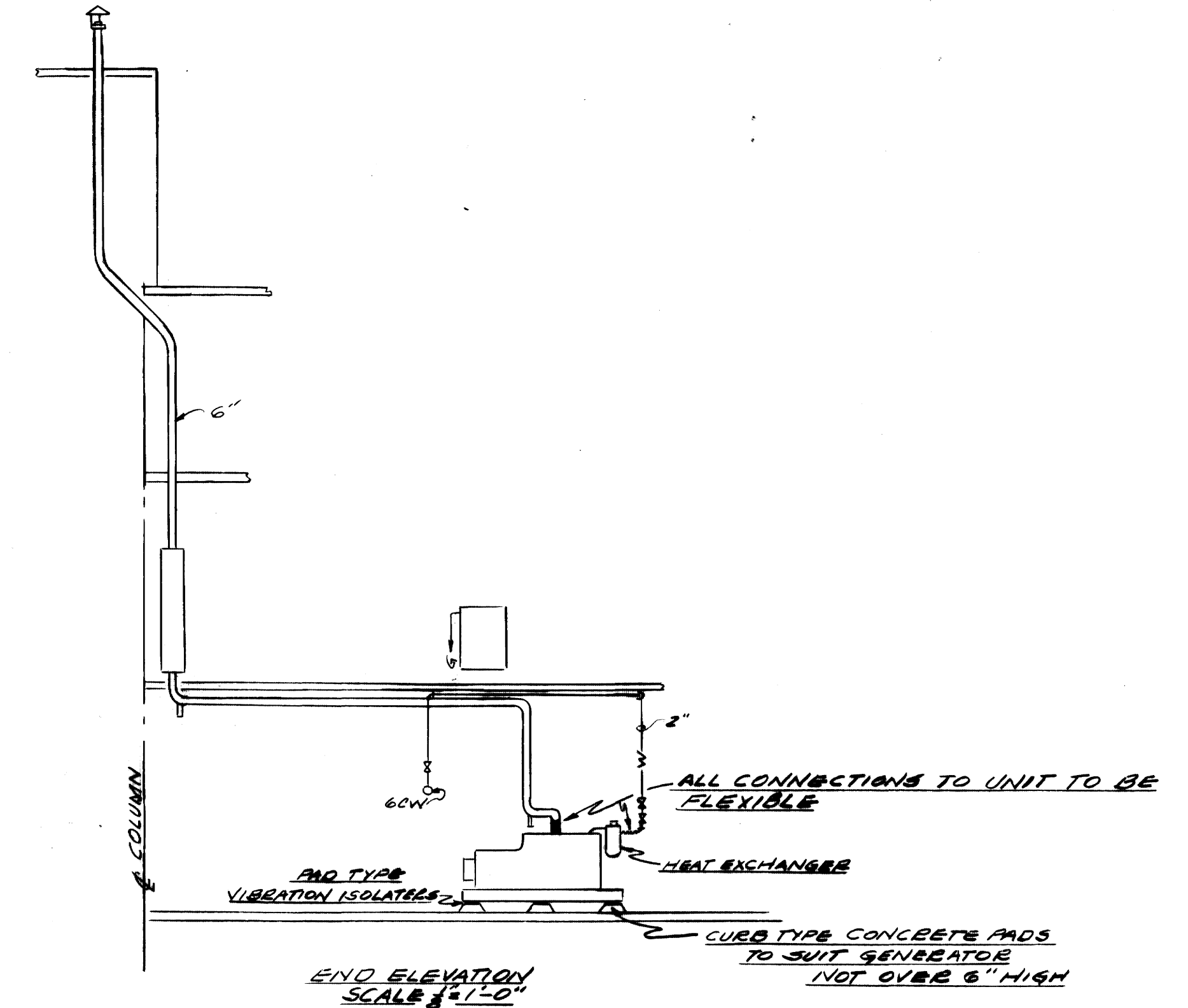
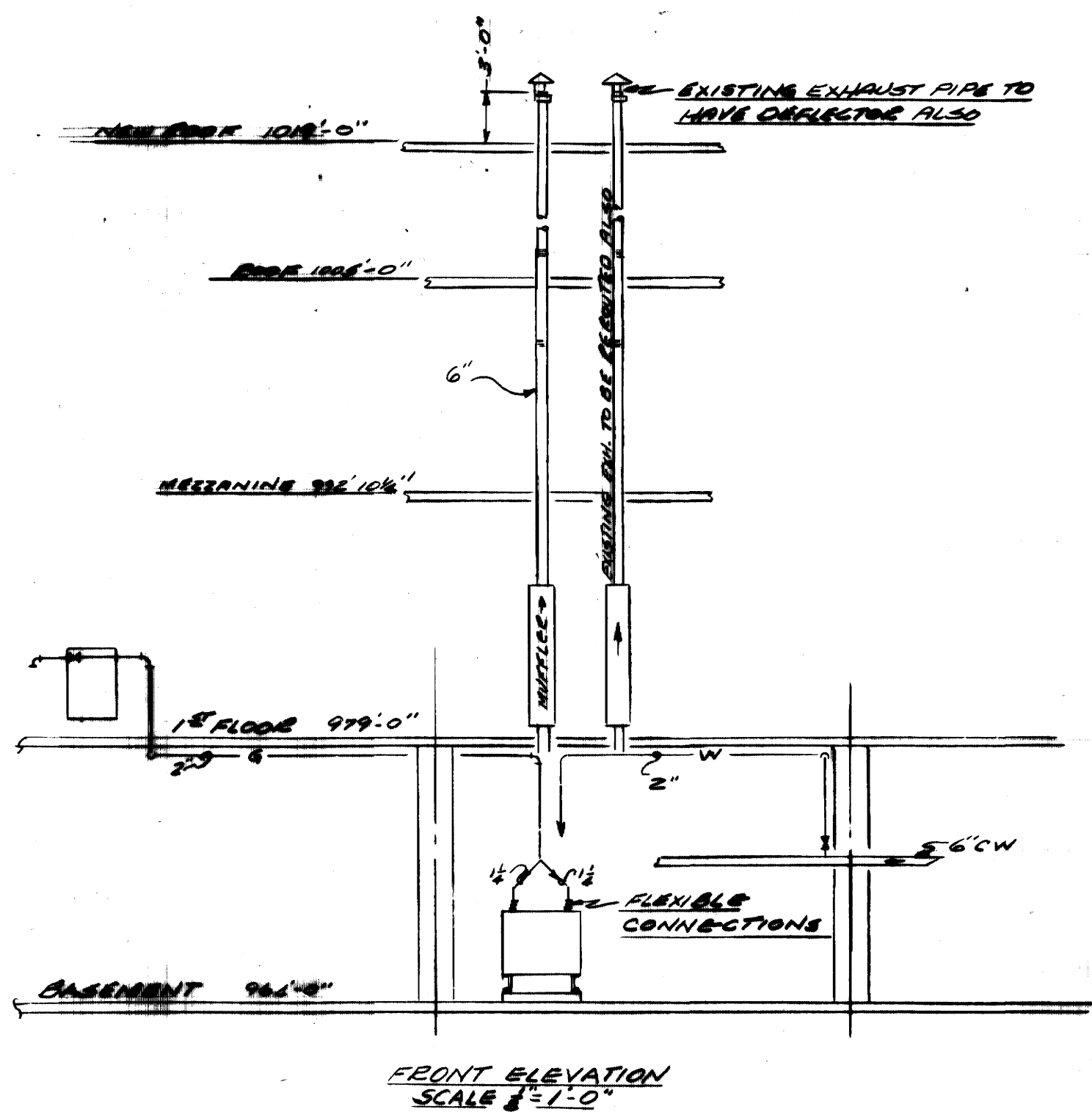
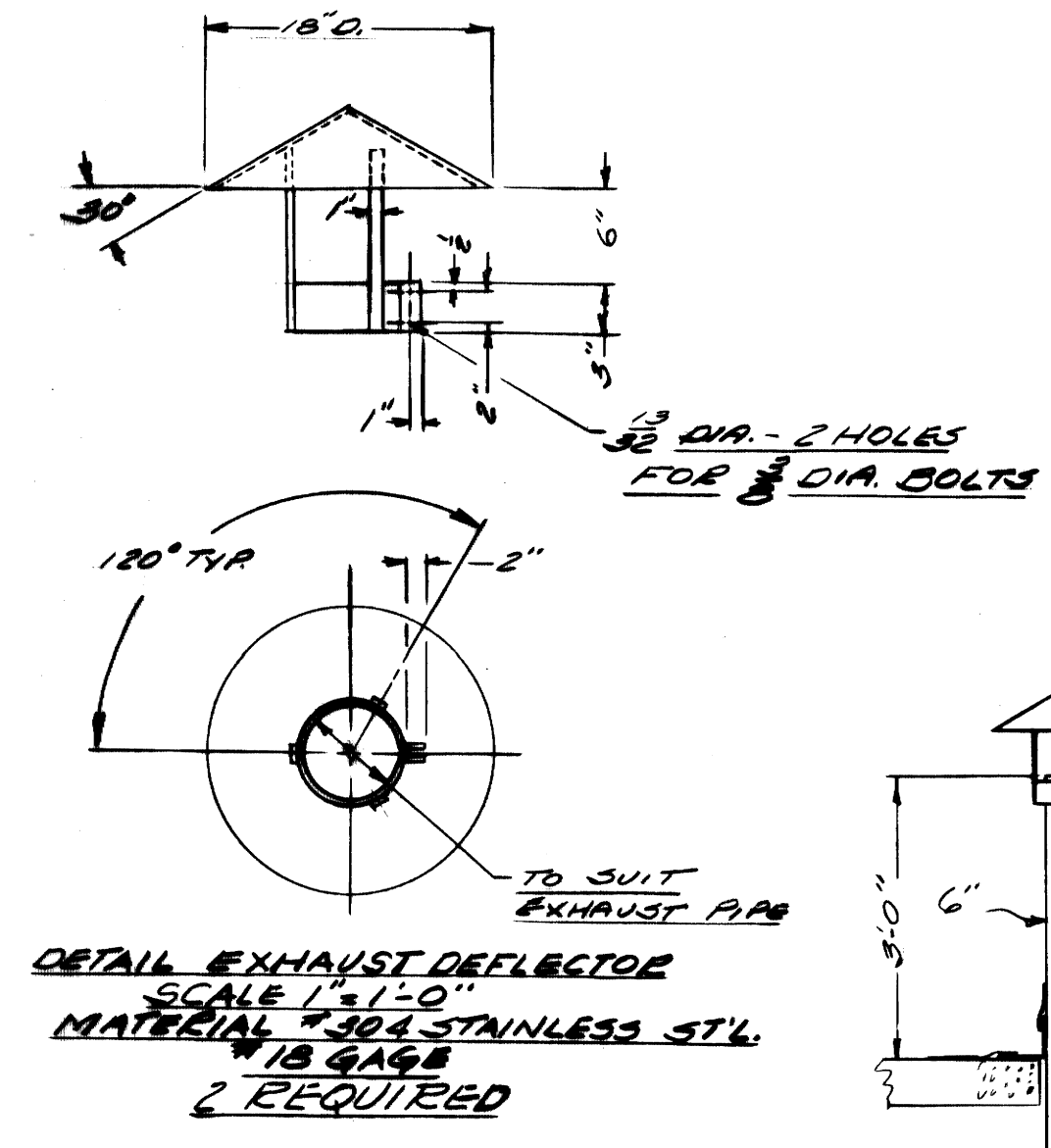
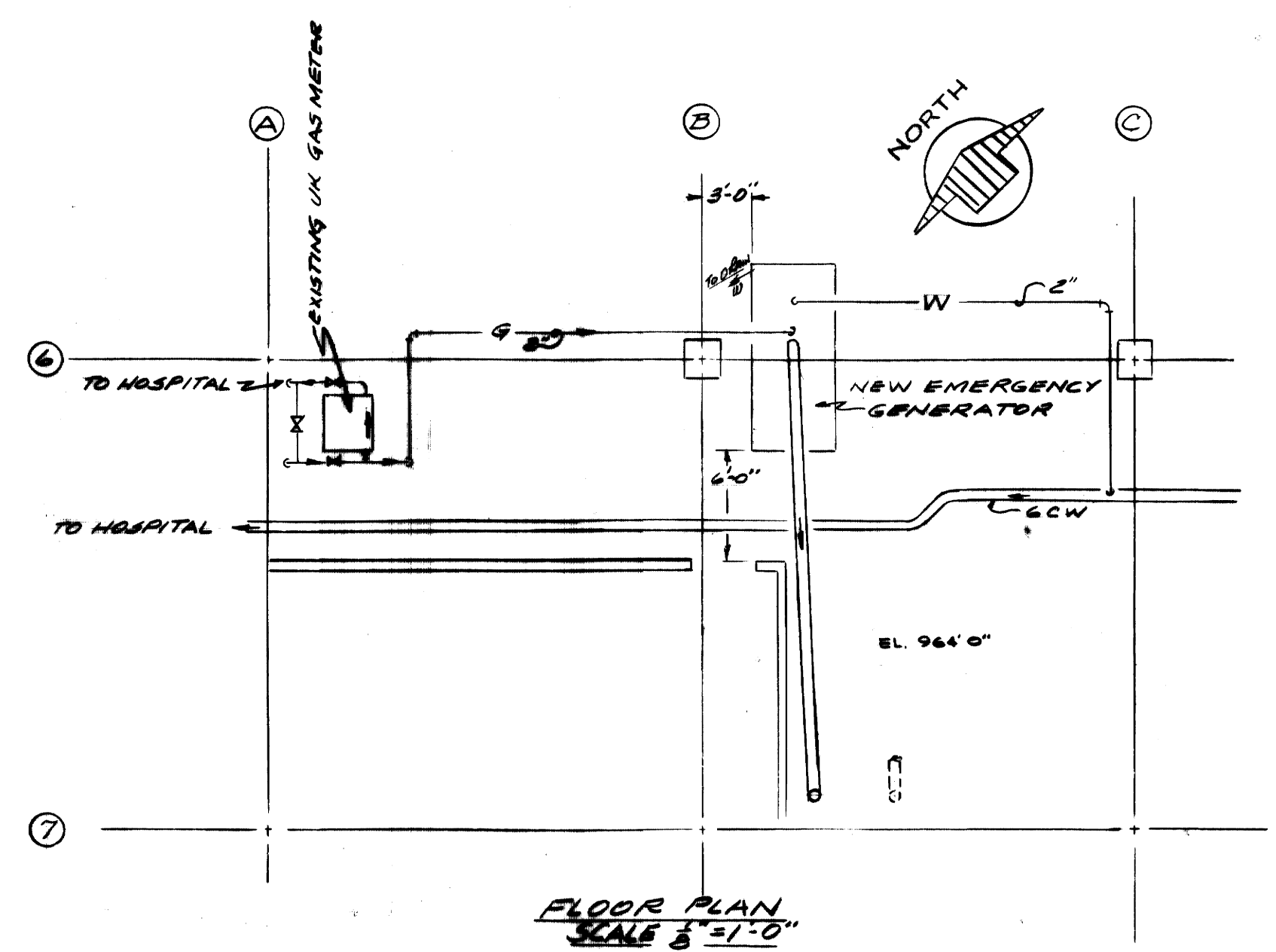
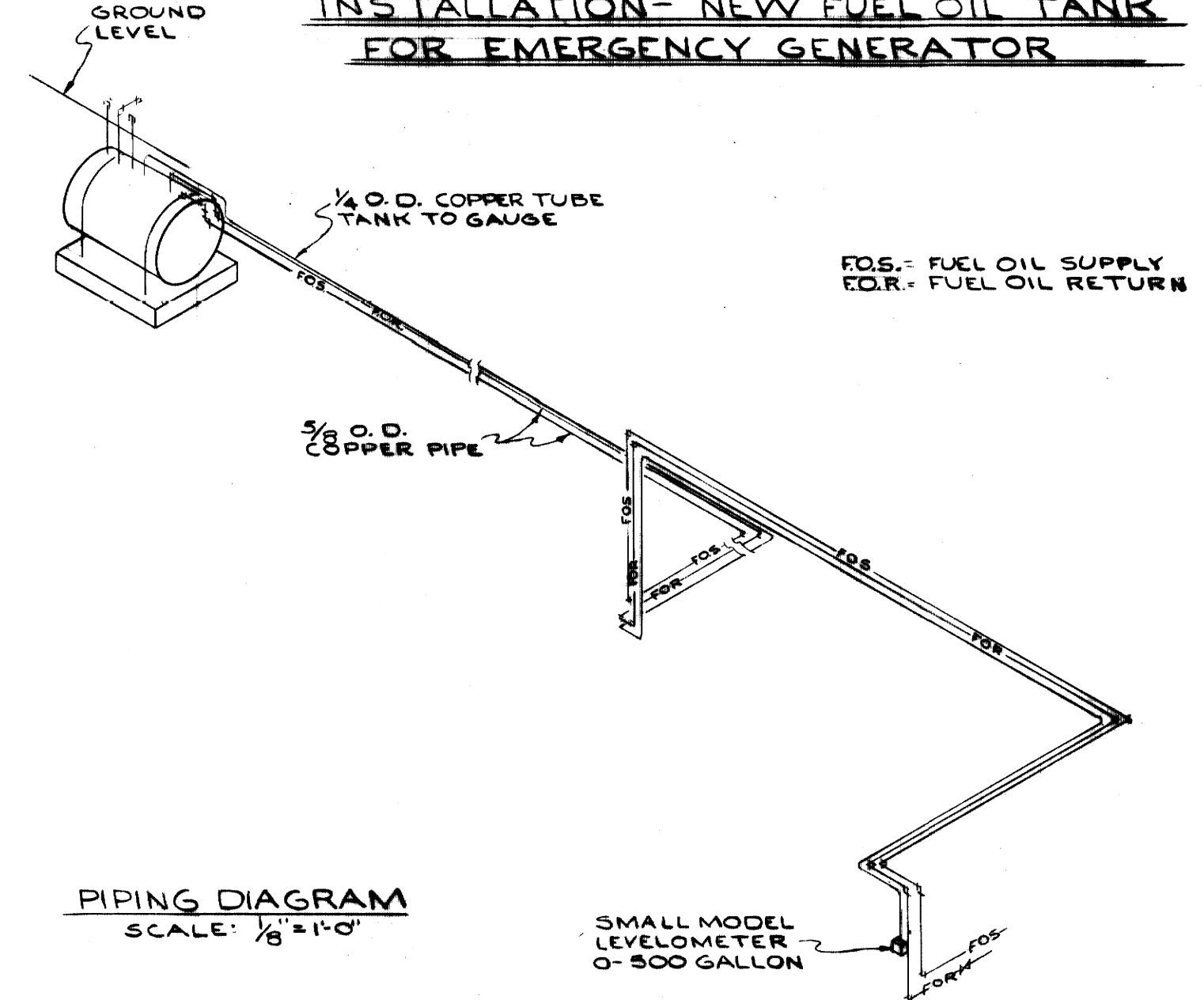


ADDITIONS & RENOVATIONS HEATING & COOLING PLANT - A. B. CHANDLER MEDICAL CENTER UNIVERSITY OF KENTUCKY LEXINGTON, KENTUCKY		
DRAWN BY P.T.V.	NEW COAL HANDLING EQUIPMENT	DATE 5-28-70
TRACED BY P.T.V.	MASON & HANGER - SILAS MASON CO., INC. 1500 W. MAIN ST. LEXINGTON, KENTUCKY	SCALE AS NOTED SPEC. NO.
CHECKED BY GFS	COMMONWEALTH OF KENTUCKY DEPARTMENT OF FINANCE DIVISION OF ENGINEERING FRANKFORT, KENTUCKY	DRAWING NO. M-18
APPROVED BY <i>[Signature]</i>	AGENCY HEAD	DATE 5-28-70
APPROVED BY <i>[Signature]</i>	DIRECTOR, DIVISION OF ENGINEERING	DATE 6-1-70

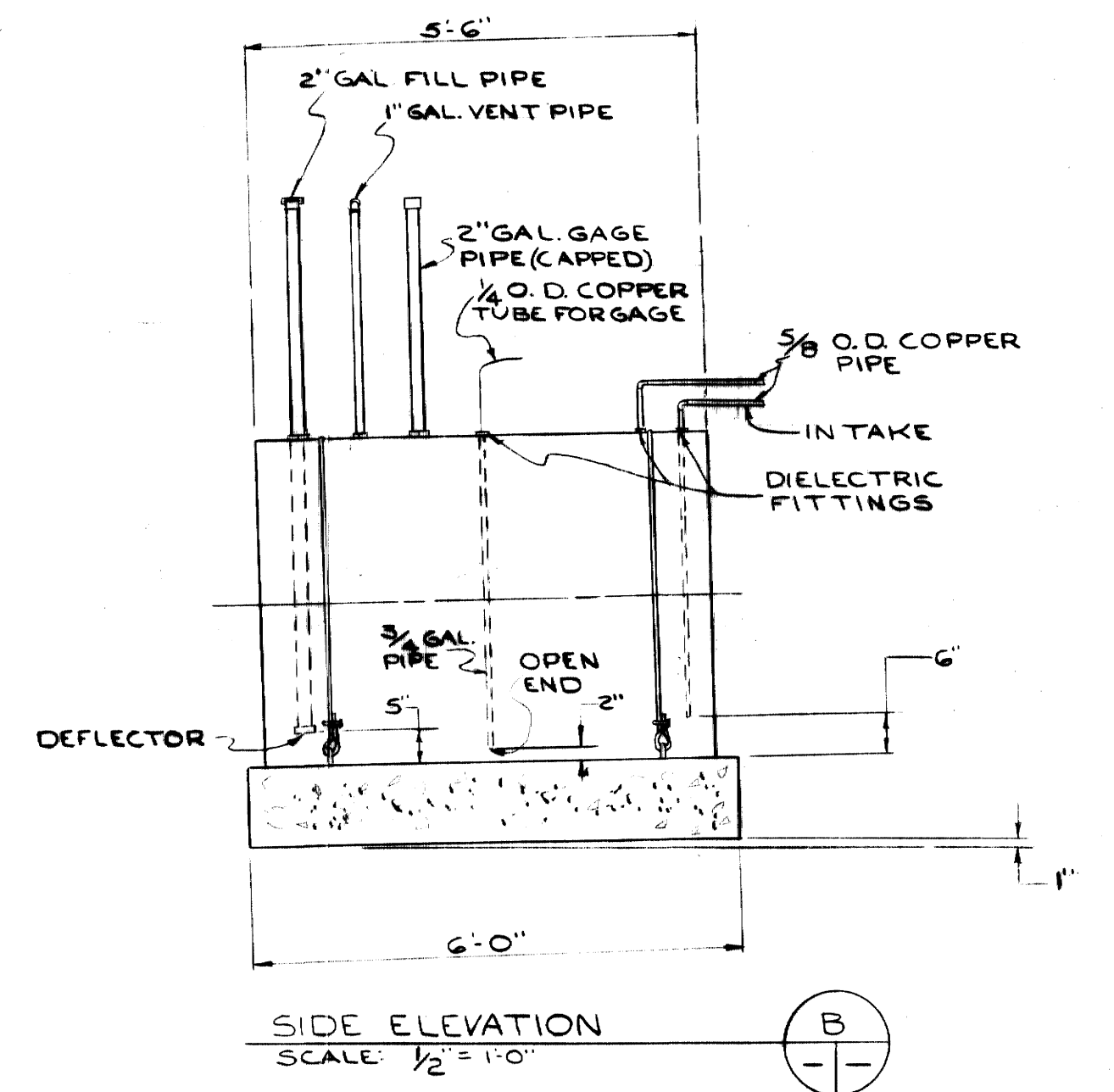
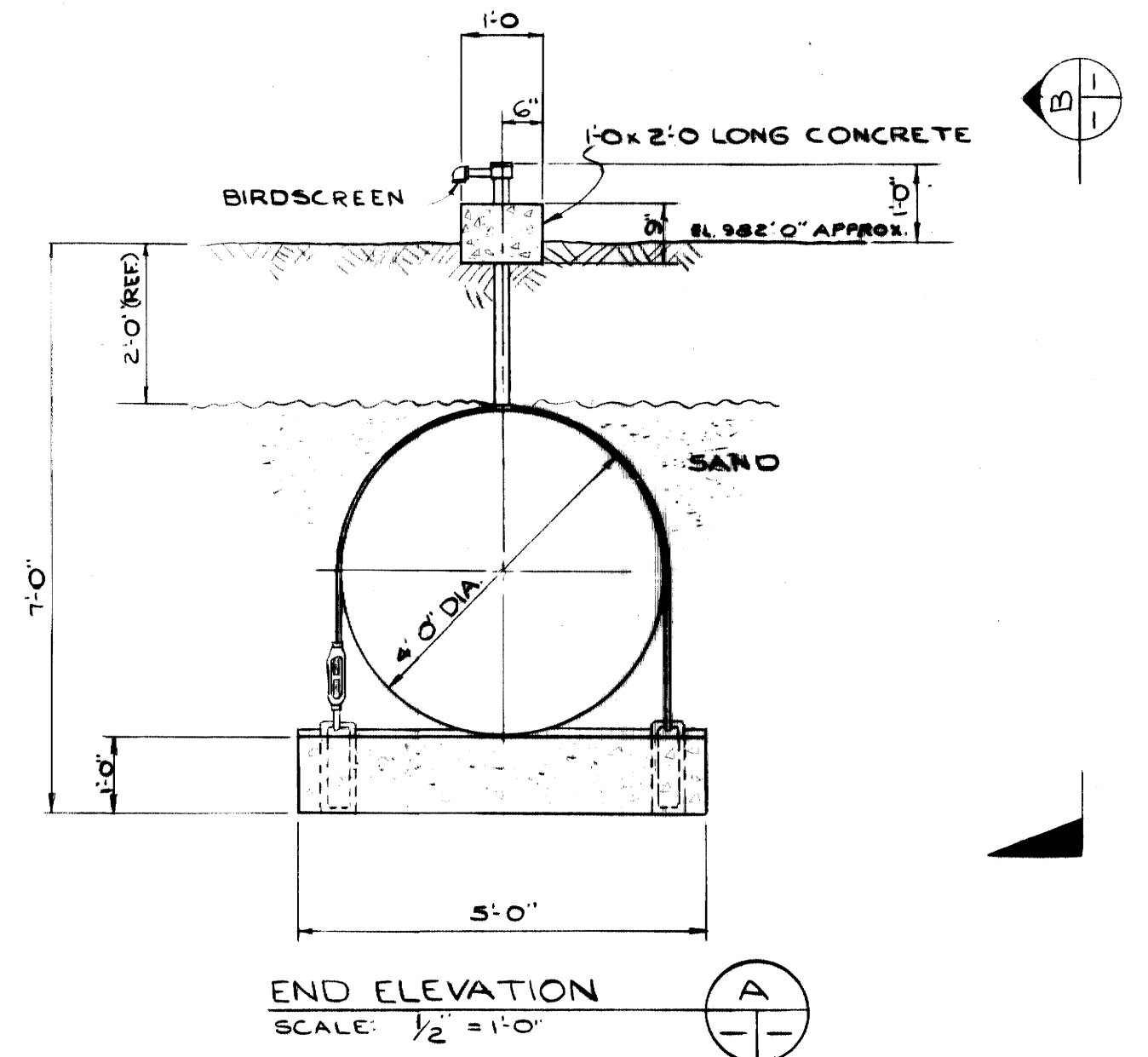


FUEL TANK LOCATION  
 SCALE: 1" = 20'-0"

INSTALLATION - NEW FUEL OIL TANK FOR EMERGENCY GENERATOR



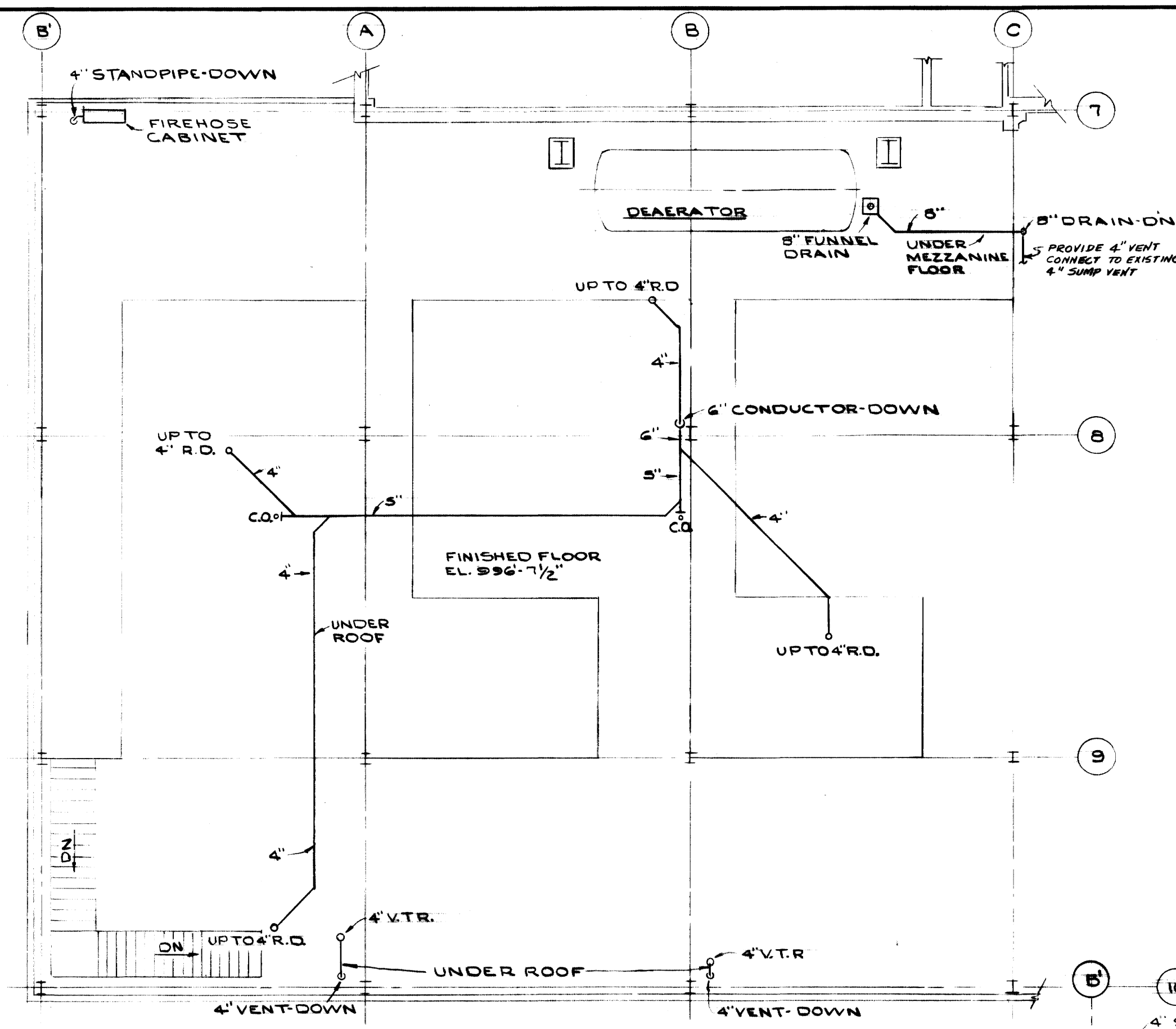
INSTALLATION NEW EMERGENCY GENERATOR



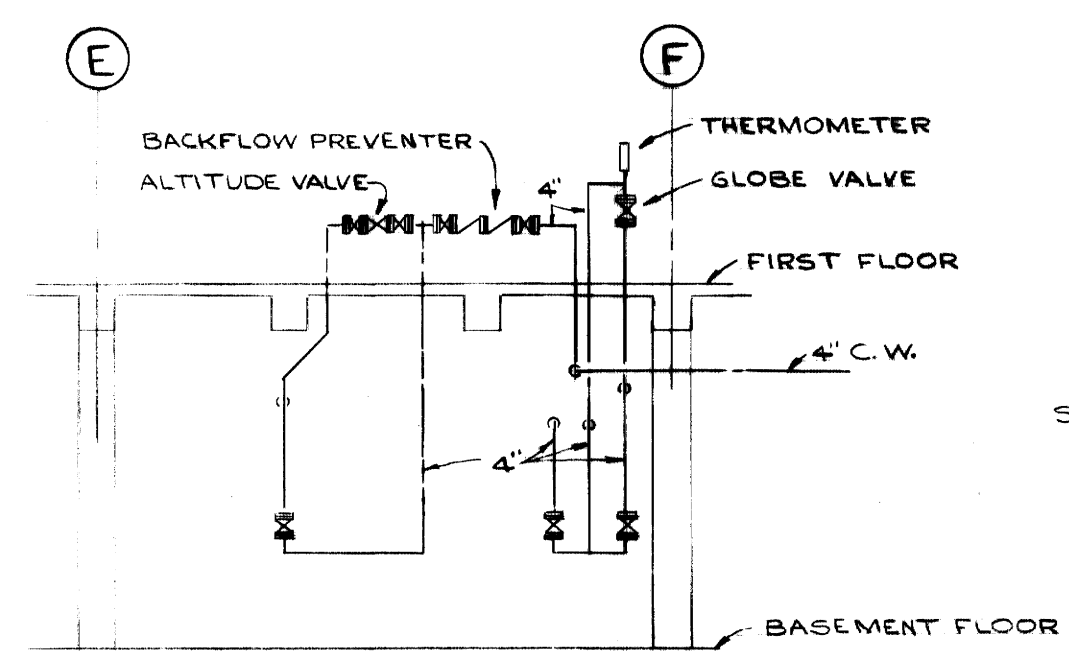
AS-BUILT DRAWING  
 REVISIONS MADE DURING CONSTRUCTION HAVE BEEN INCLUDED IN THIS DRAWING  
 MASON & HANGER - SILAS MASON CO., INC.  
 BY: GFS DATE: 1-10-72  
 NO. REVISIONS



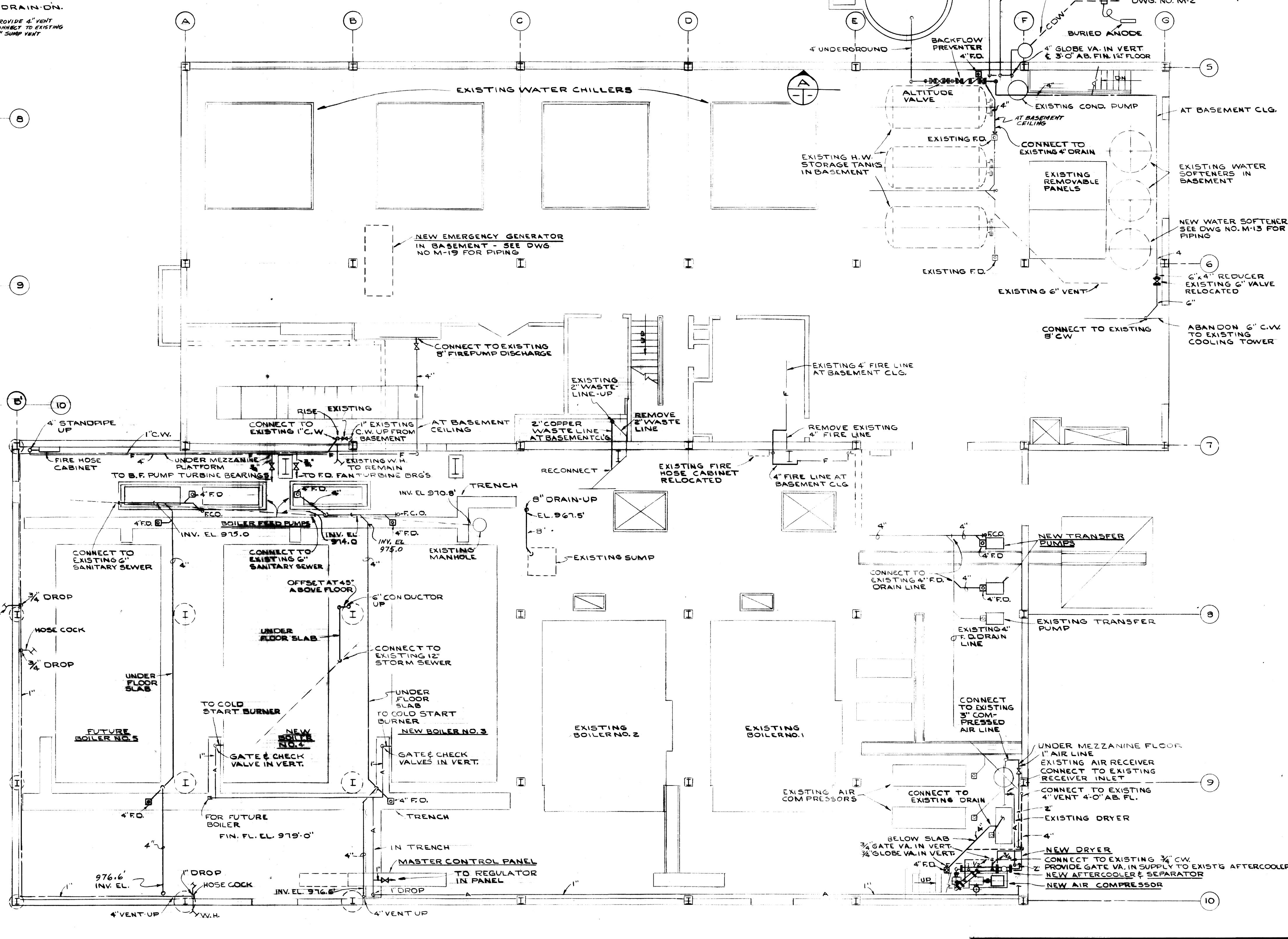
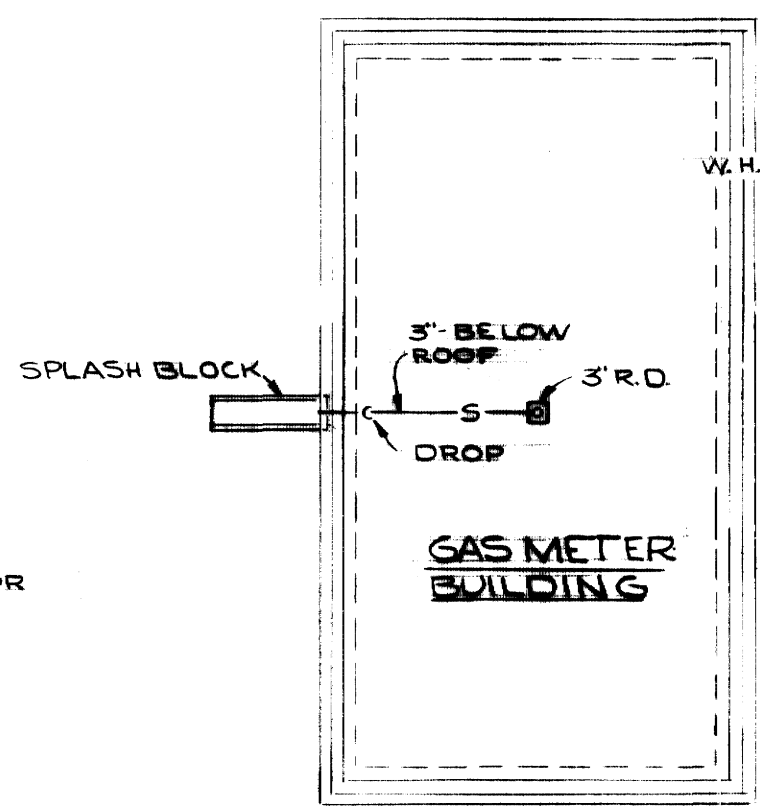
ADDITIONS & RENOVATIONS HEATING & COOLING PLANT - A. B. CHANDLER MEDICAL CENTER UNIVERSITY OF KENTUCKY LEXINGTON, KENTUCKY		
DRAWN BY L.C.	EMERGENCY GENERATOR SYSTEM & DETAILS	DATE 5-28-70
TRACED BY GFS	MASON & HANGER - SILAS MASON CO., INC. 1500 W. MAIN ST. LEXINGTON, KENTUCKY	SCALE AS NOTED
CHECKED BY GFS	COMMONWEALTH OF KENTUCKY DEPARTMENT OF FINANCE DIVISION OF ENGINEERING FRANKFORT KENTUCKY	SPEC. NO. M-19
APPROVED BY G.F. Marshall AGENCY HEAD	DATE 5-28-70	
APPROVED BY W.J. McCombes DIRECTOR, DIVISION OF ENGINEERING	DATE 6-1-70	



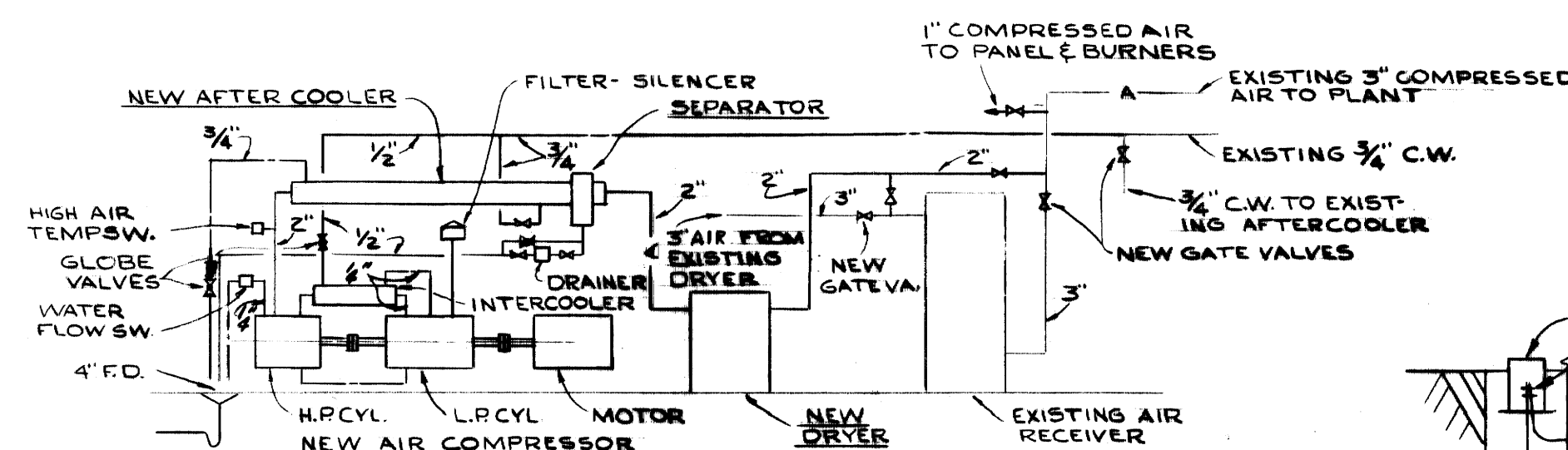
**MEZZANINE FLOOR PLAN**  
SCALE: 1/8" = 1'-0"



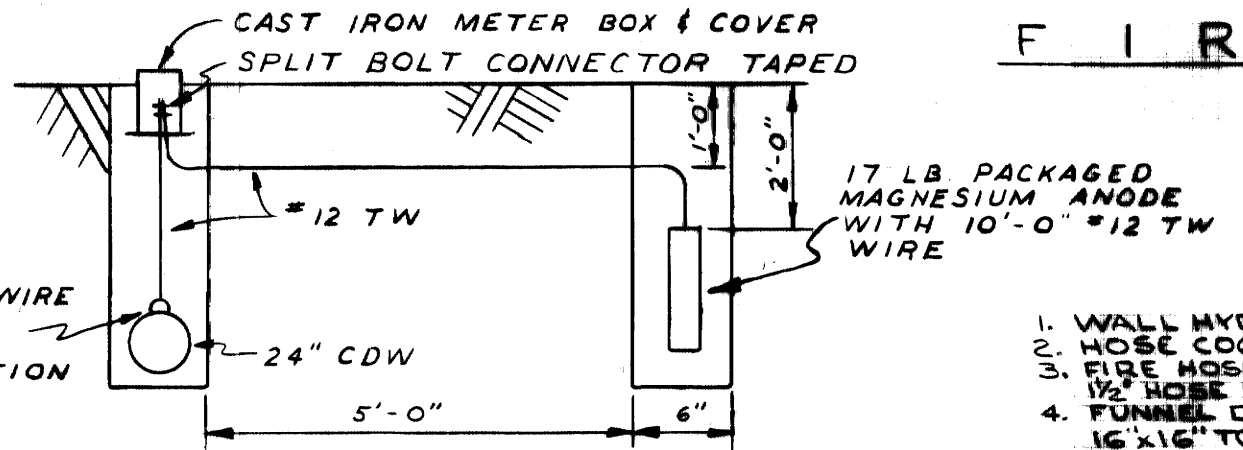
**SECTION A**  
SCALE: 1/8" = 1'-0"



**FIRST FLOOR PLAN**  
SCALE: 1/8" = 1'-0"



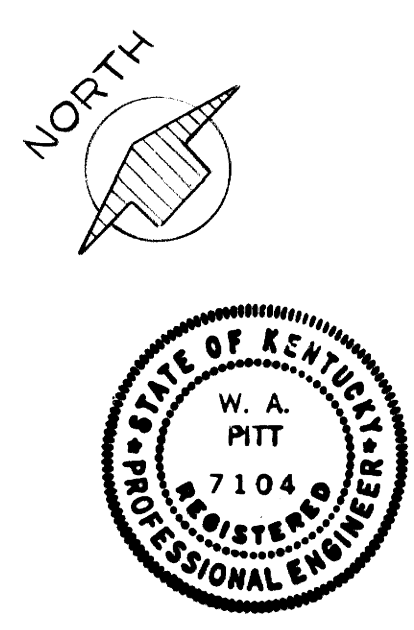
**PIPING DIAGRAM AIR COMPRESSOR**  
NO SCALE



**TYPICAL ANODE DETAIL**  
NO SCALE

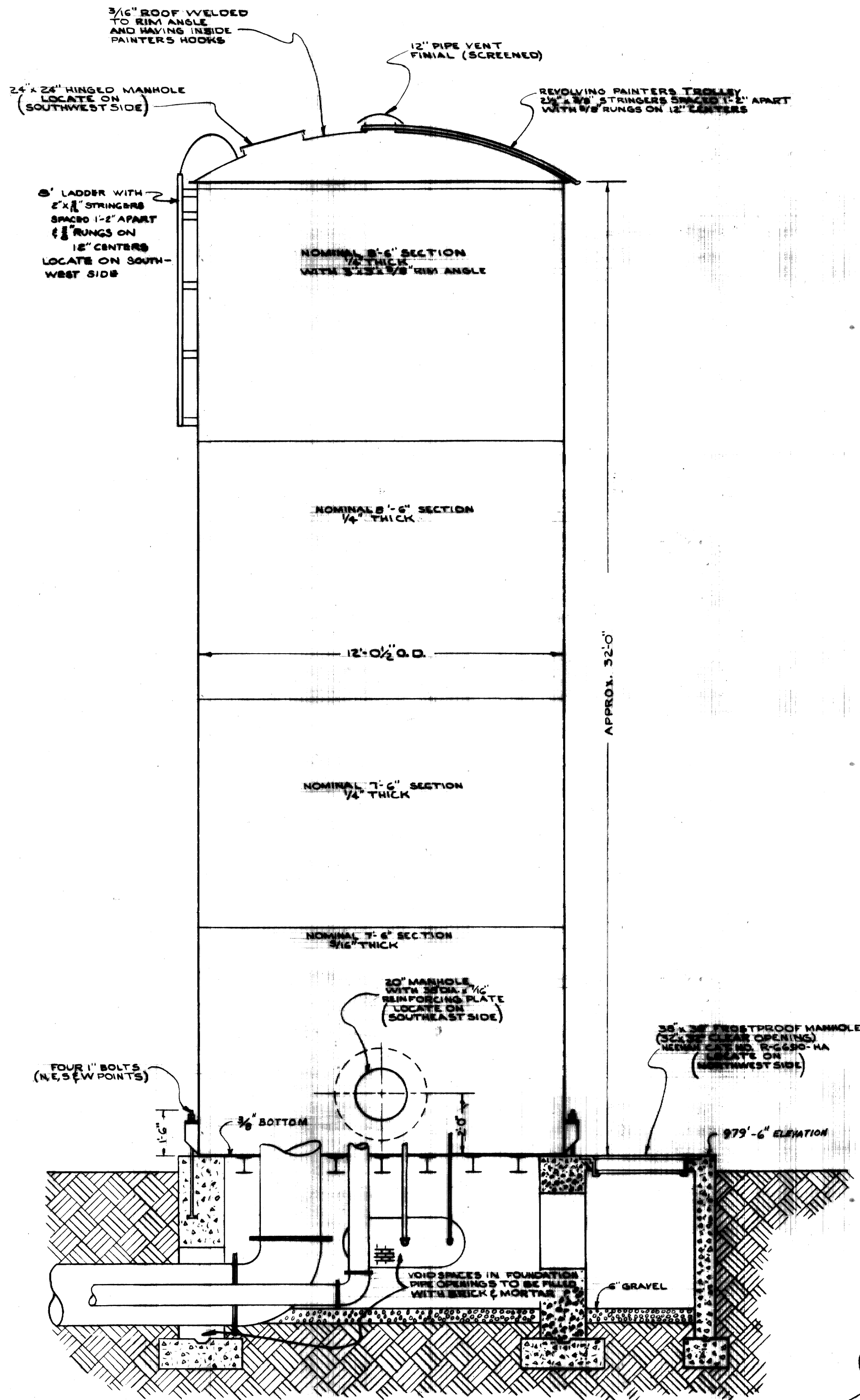
- NOTES**
1. WALL HYDRANTS TO BE 24" ABOVE FIN. GR.
  2. HOSE COCKS TO BE 3'-0" ABOVE FIN. FL.
  3. FIRE HOSE CABINET TO BE LOCATED WITH 1/2" HOSE VALVE 5'-0" ABOVE FINISHED FLOOR.
  4. FUNNEL DRAIN SHALL BE ZURN NO. Z-566, 1 1/2" X 1 1/2" TOP, OR APPROVED EQUAL.
  5. F.D. FAN TURBINE BEARINGS COOLING WATER DRAINS TO TRENCH. PROVIDE SIGHT FLOW FUNNEL AT EACH BEARING.
  6. ALL ROTATING EQUIPMENT SHALL BE GROUTED WITH NON-SHRINK GROUT.

**AS-BUILT DRAWING**  
REVISIONS MADE DURING CONSTRUCTION HAVE BEEN INCLUDED ON THIS DRAWING.  
MASON & HANGER - SILAS MASON CO., INC.  
BY GFS DATE 1-10-72  
REMOVED 3 CLEANOUTS BELOW ROOF  
DRAWS ON MEZZANINE PLAN  
ALTERED VENTS LISTED IN ADDENDUM #7  
MISC. ELEVATIONS & PIPING ALTERATIONS

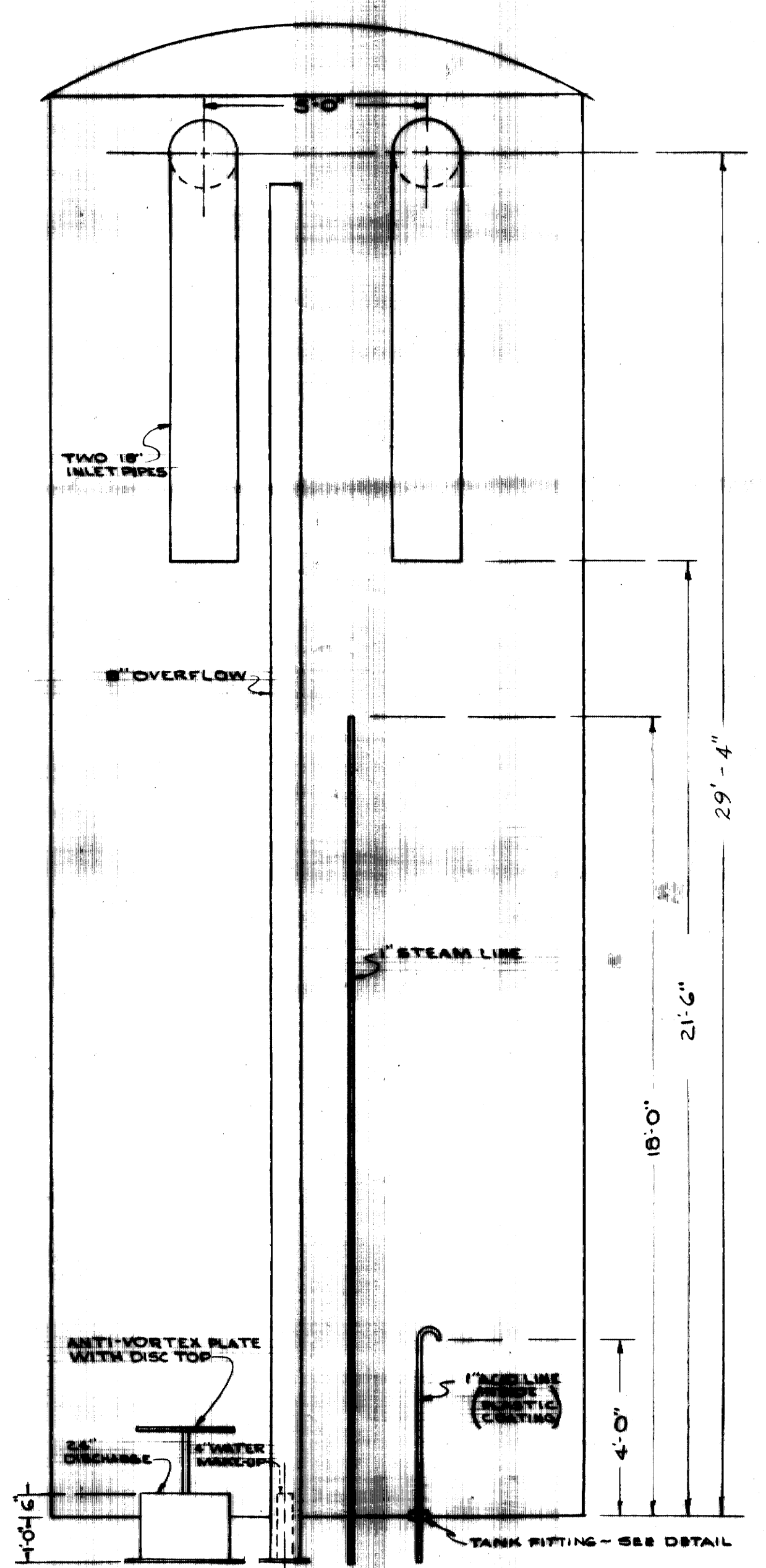
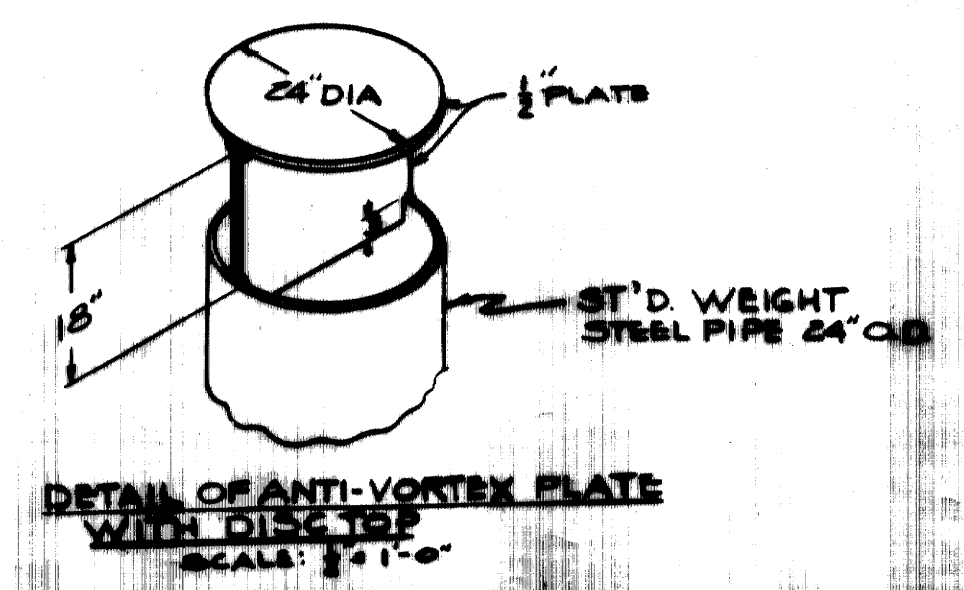


ADDITIONS & RENOVATIONS		
HEATING & COOLING PLANT - A. B. CHANDLER MEDICAL CENTER		
UNIVERSITY OF KENTUCKY LEXINGTON, KENTUCKY		
DRAWN BY L. C.	PLUMBING SYSTEM & DETAILS	DATE 5-28-70
TRACED BY GFS	MASON & HANGER - SILAS MASON CO., INC. 1500 W. MAIN ST. LEXINGTON, KENTUCKY	SCALE AS NOTED
CHECKED BY GFS	COMMONWEALTH OF KENTUCKY DEPARTMENT OF FINANCE DIVISION OF ENGINEERING FRANKFORT KENTUCKY	SPEC. NO. DRAWING NO. M-20
APPROVED BY <u>C. J. Meacham</u> DATE <u>5-28-70</u>		
APPROVED BY <u>W. J. McCombs</u> DATE <u>6-1-70</u>		
DIRECTOR: DIVISION OF ENGINEERING		

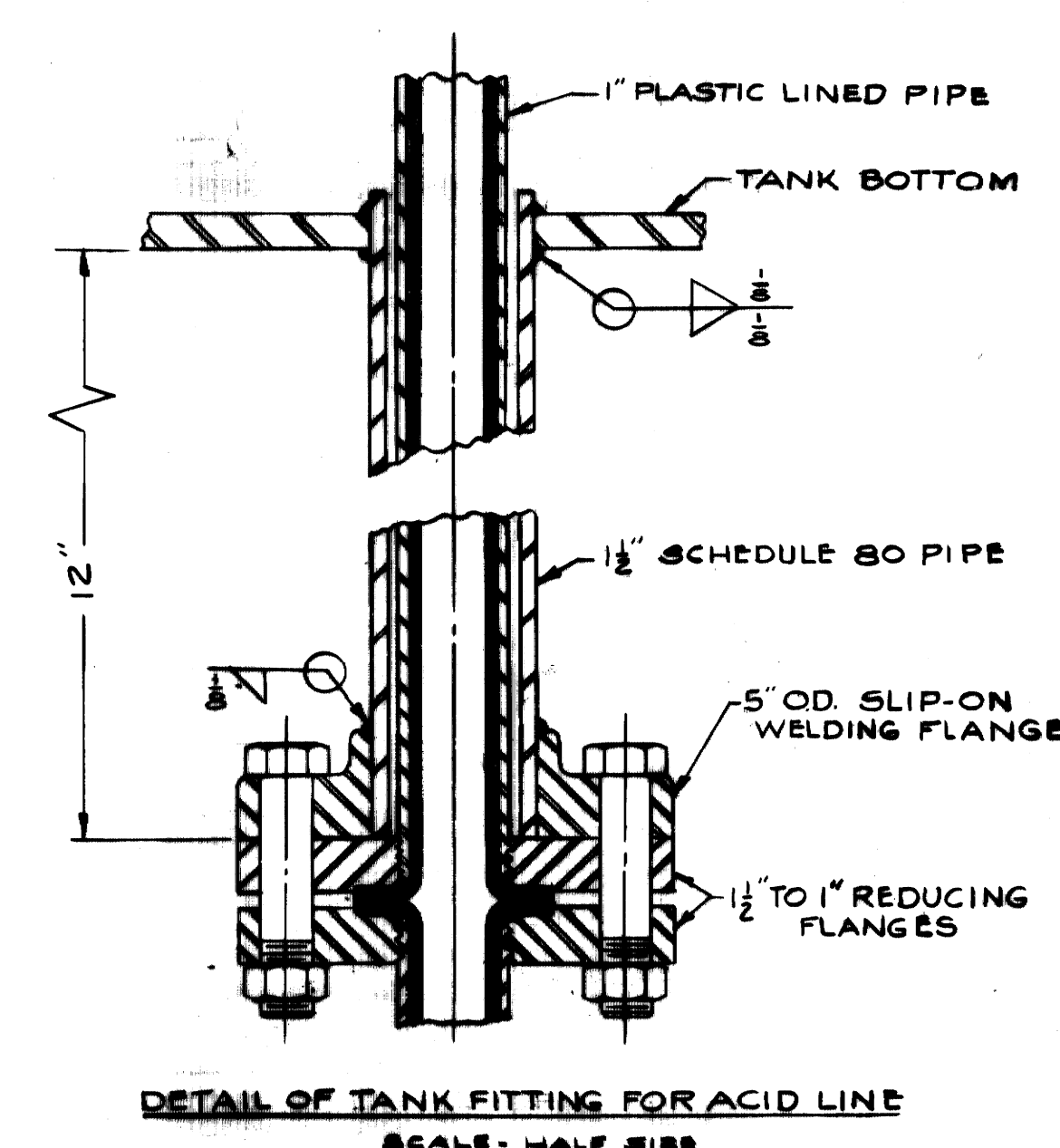
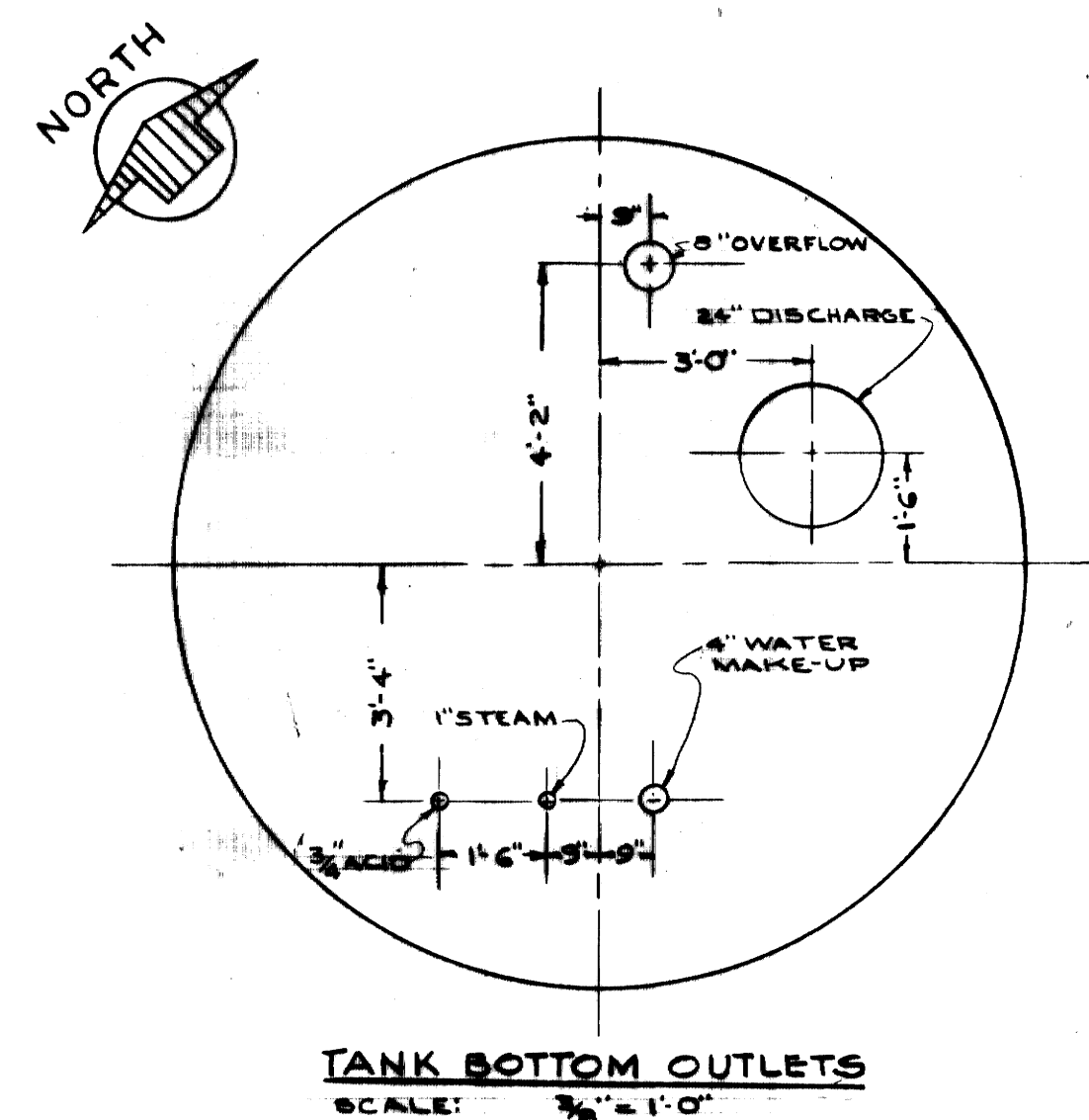
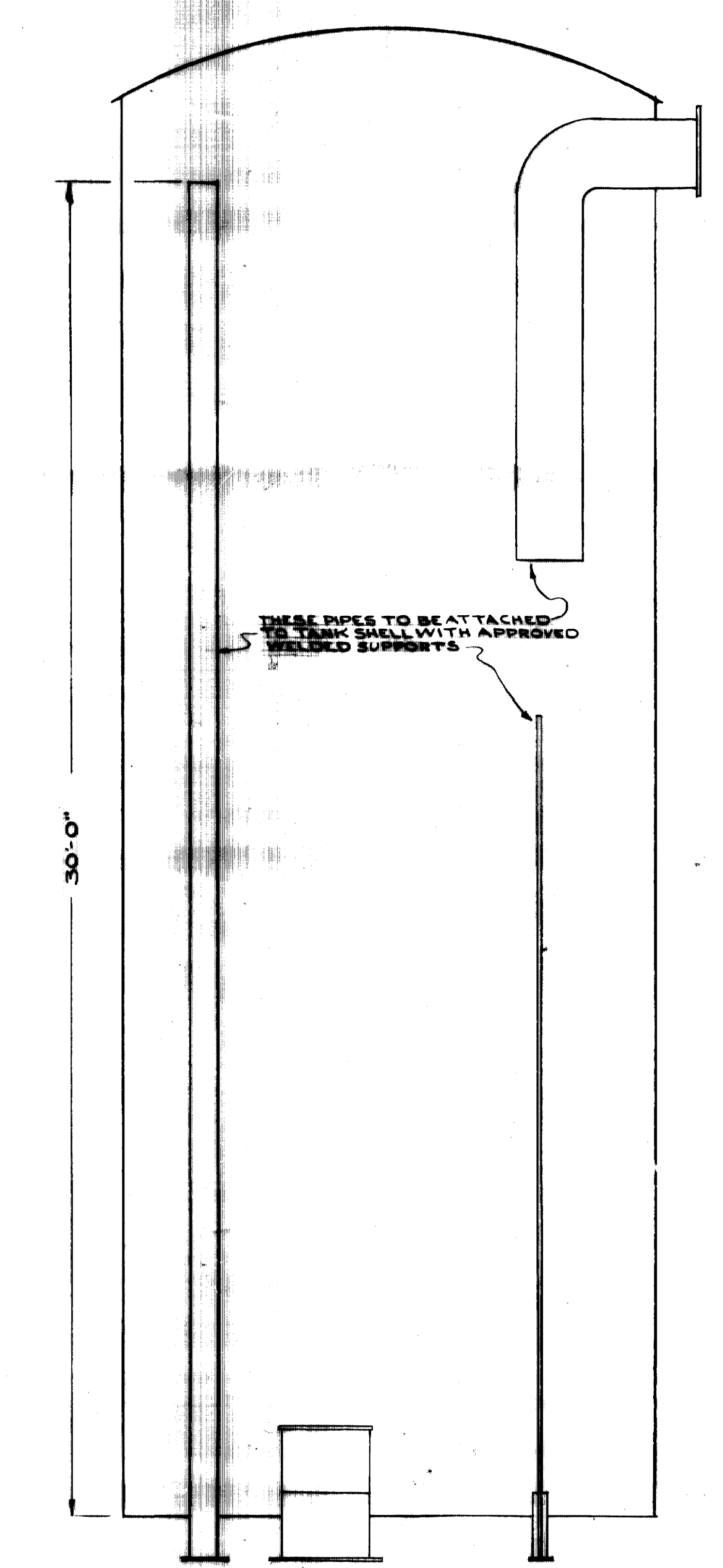
**NOTE**  
 PROVIDE APPROVED INSIDE PIPE SUPPORTS AND SIDE BRACES WITH SUFFICIENT STRENGTH TO WITHSTAND ICE LOADS WHEN STORED WATER IS UNHEATED AT WINTER AMBIENT TEMPERATURES. INSIDE 1/2 INCH THICK REINFORCING PLATES (6" X 6" MINIMUM) SHALL BE LOCATED AT ALL ATTACHMENT POINTS OF SUPPORTS TO TANK WALLS



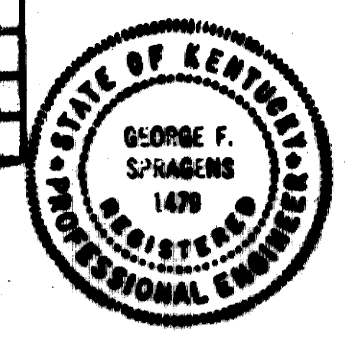
**COOLING TOWER WATER STORAGE TANK**  
 SCALE: 3/8" = 1'-0"



**INSIDE TANK PIPING**

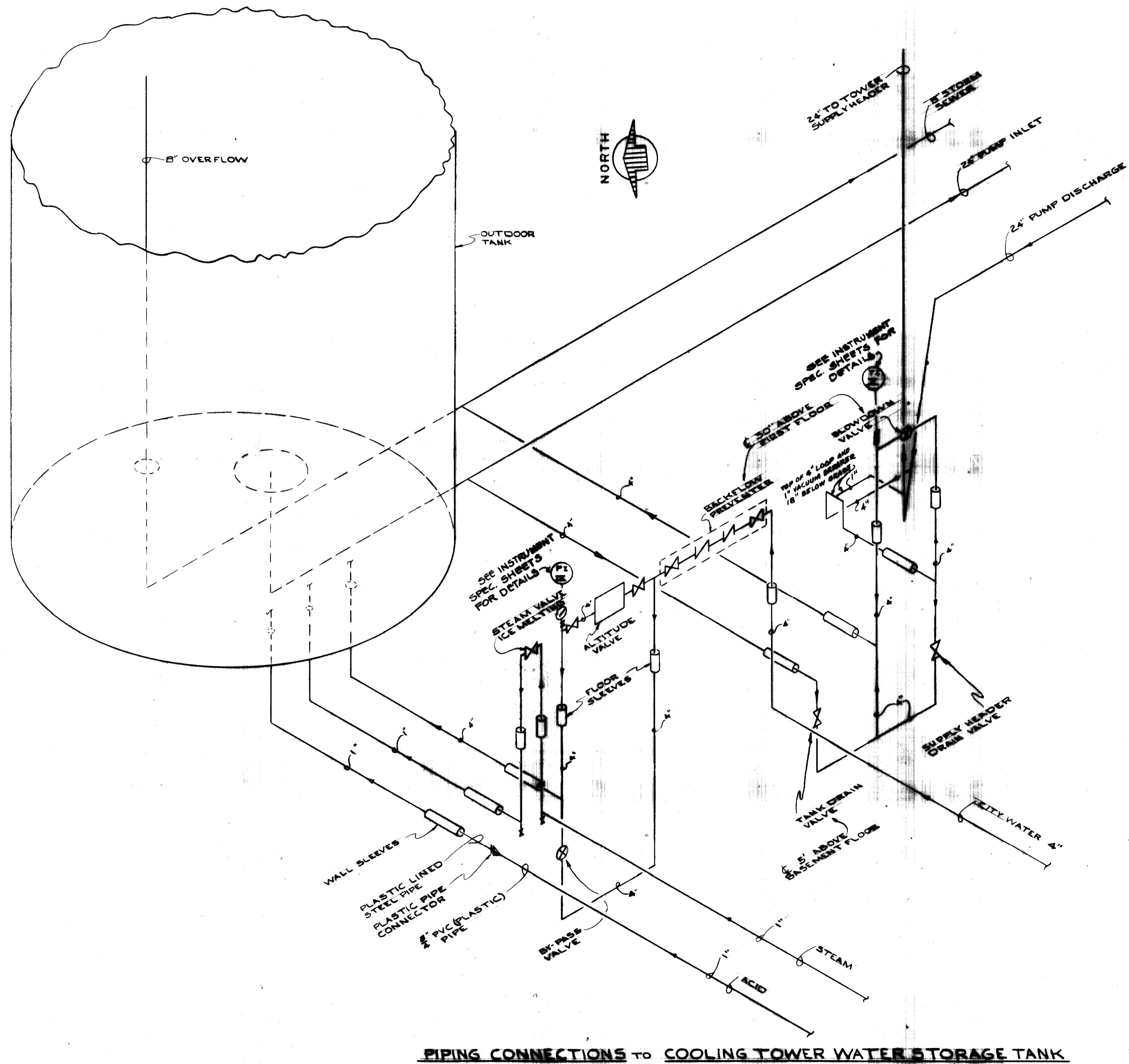


**AS-BUILT DRAWING**  
 REVISIONS MADE DURING CONSTRUCTION HAVE BEEN INCLUDED ON THIS DRAWING  
 MASON & HANGER - SILAS MASON CO., INC.  
 BY: GES DATE: 1-10-72  
 BY: R. MILLER

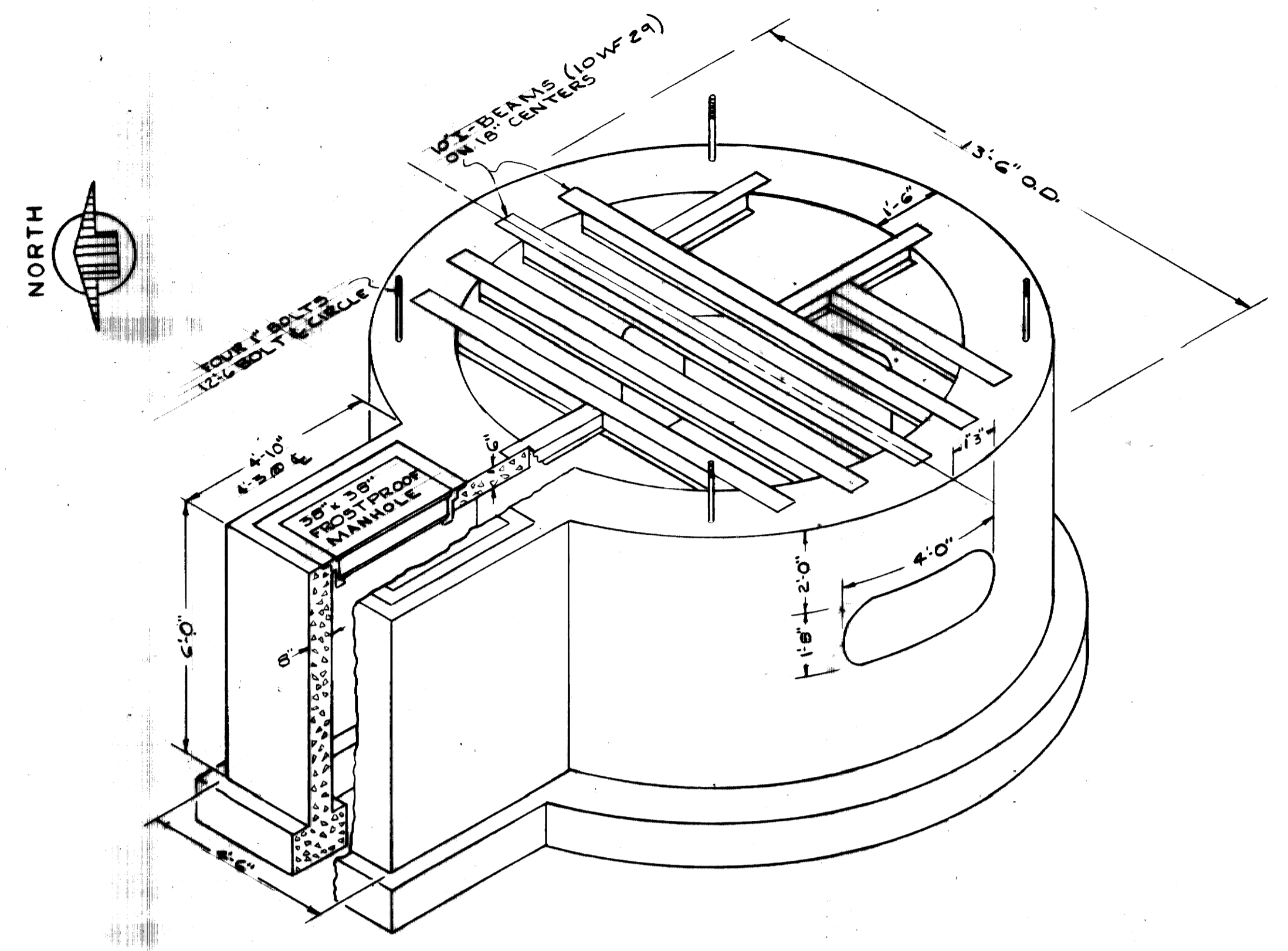


ADDITIONS & RENOVATIONS		
HEATING & COOLING PLANT - A. B. CHANDLER MEDICAL CENTER		
UNIVERSITY OF KENTUCKY		LEXINGTON, KENTUCKY
DRAWN BY	COOLING TOWER WATER STORAGE TANK	DATE 5-28-70
TRACED BY	L.C.	SCALE 1/8" = 1'-0"
CHECKED BY	SFS	SPEC. NO.
COMMONWEALTH OF KENTUCKY		DRAWING NO. M-21
DEPARTMENT OF FINANCE		
DIVISION OF ENGINEERING		
FRANKFORT, KENTUCKY		
APPROVED BY	<u>[Signature]</u>	DATE 5-21-70
APPROVED BY	<u>[Signature]</u>	DATE 6-1-70

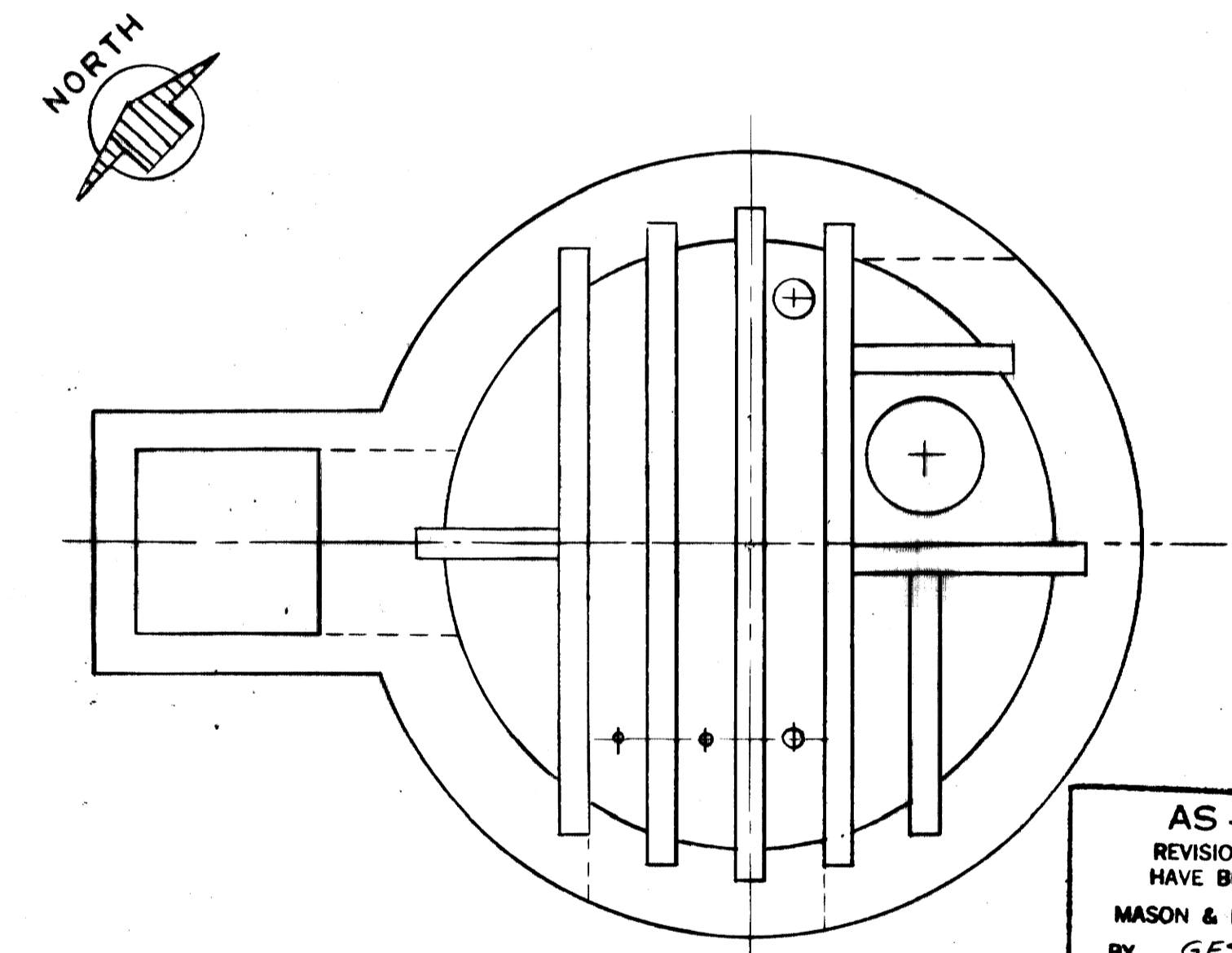




**PIPING CONNECTIONS TO COOLING TOWER WATER STORAGE TANK**

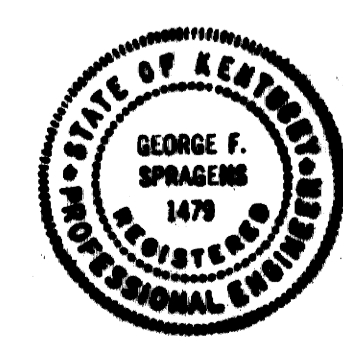


**ISOMETRIC VIEW OF TANK FOUNDATION**  
SEE DWG. NO. S-22 FOR DETAILS

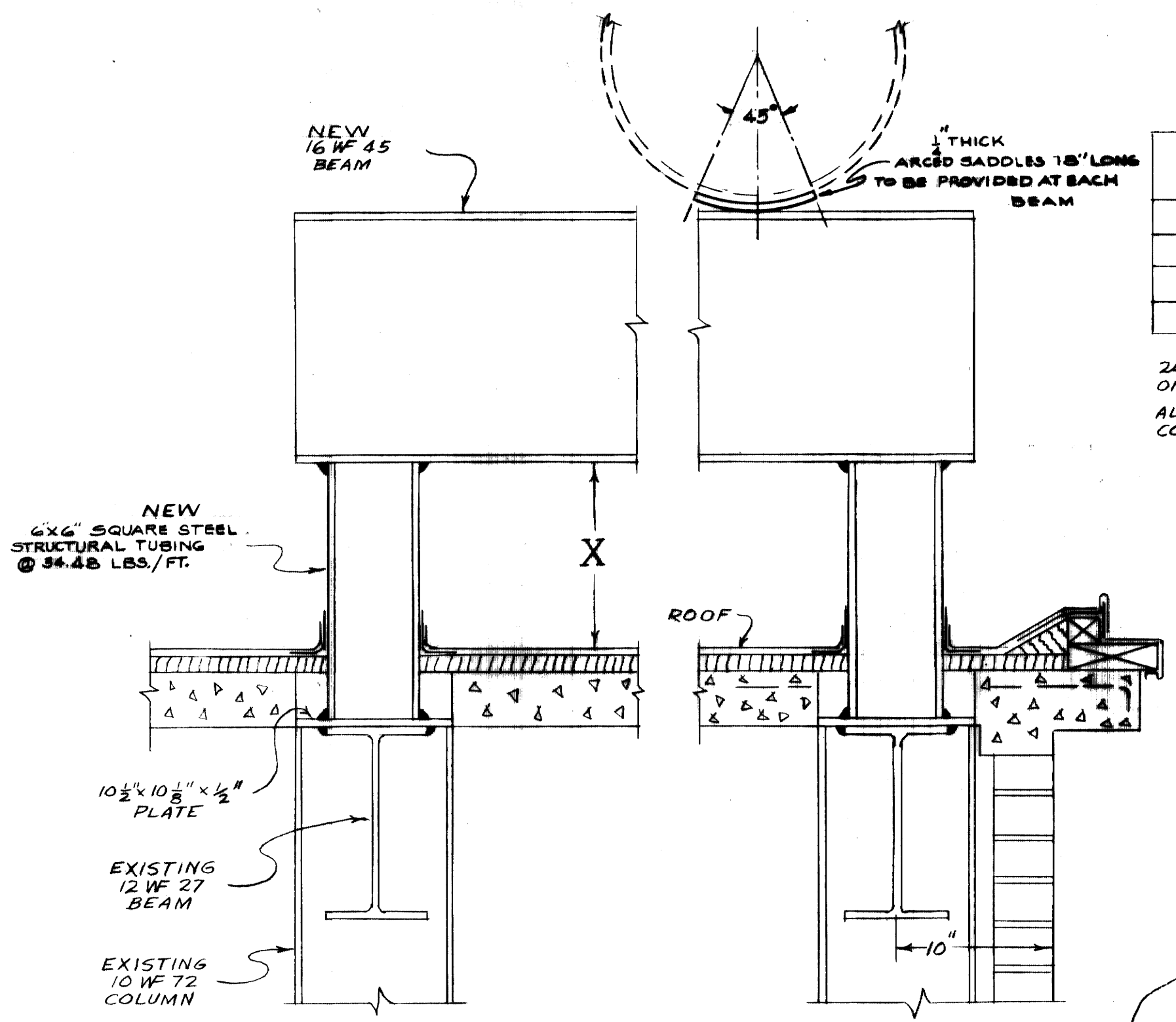


**TANK FOUNDATION PLAN**  
SEE DWG. NO. S-22 FOR DETAILS

**AS-BUILT DRAWING**  
REVISIONS MADE DURING CONSTRUCTION  
HAVE BEEN INCLUDED ON THIS DRAWING  
MASON & HANGER — SILAS MASON CO., INC.  
BY GFS DATE 1-10-72  
ADDED "VACUUM BREAKER"

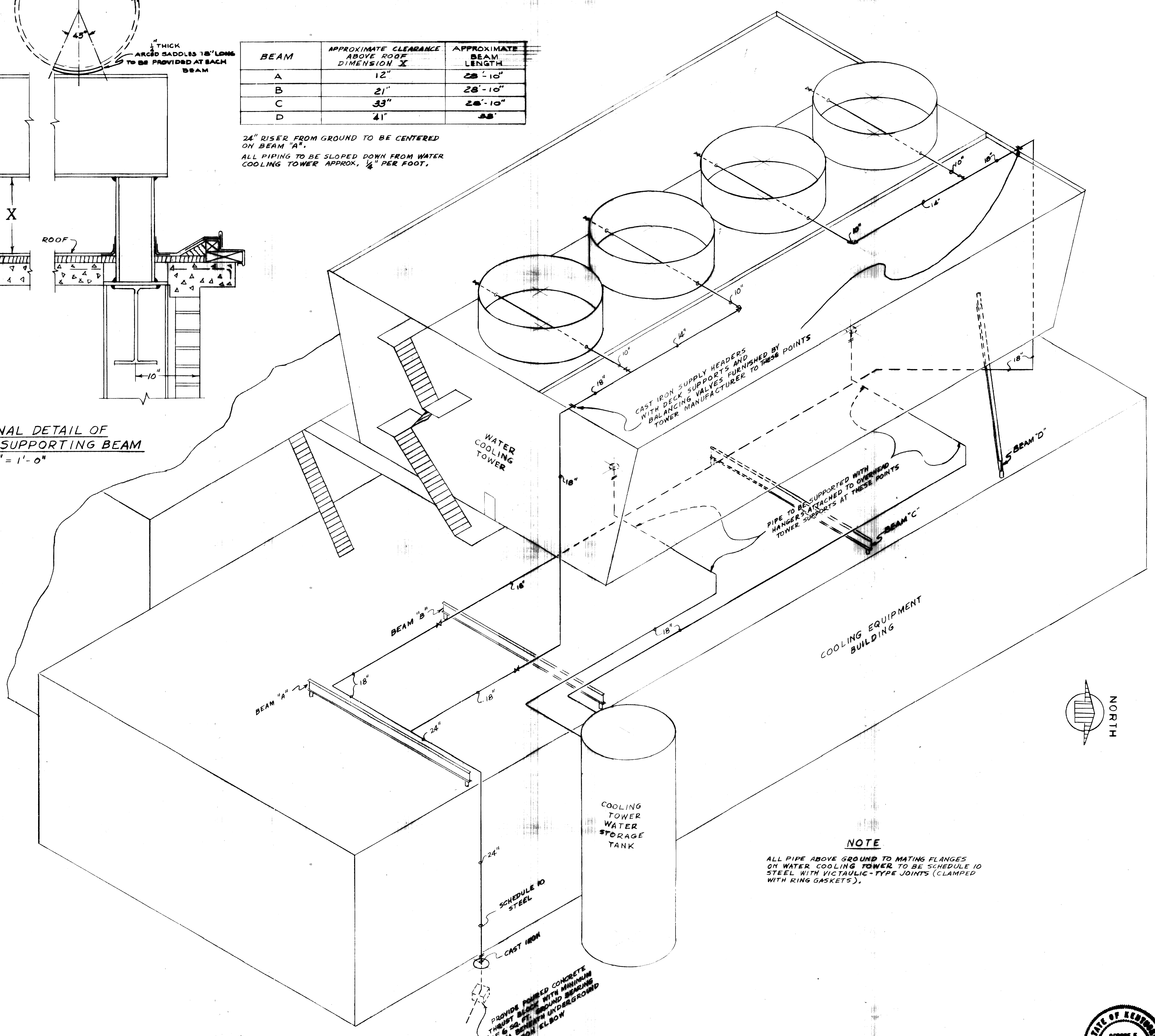


ADDITIONS & RENOVATIONS		
HEATING & COOLING PLANT — A. B. CHANDLER MEDICAL CENTER		
UNIVERSITY OF KENTUCKY LEXINGTON, KENTUCKY		
DRAWN BY	COOLING TOWER WATER STORAGE TANK PIPING & FOUNDATION	DATE 5-28-70
TRACED BY	L.C.	SCALE NONE
CHECKED BY	GFS	SPEC. NO.
COMMONWEALTH OF KENTUCKY DEPARTMENT OF FINANCE DIVISION OF ENGINEERING FRANKFORT, KENTUCKY		DRAWING NO. M-22
APPROVED BY	<i>G. Marshall</i>	DATE 5-28-70
APPROVED BY	<i>G. J. McConnell</i>	DATE 6-1-70



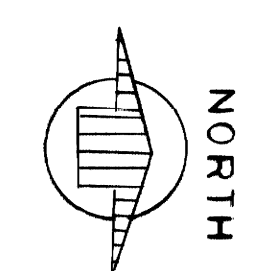
BEAM	APPROXIMATE CLEARANCE ABOVE ROOF DIMENSION X	APPROXIMATE BEAM LENGTH
A	12"	28'-10"
B	21"	28'-10"
C	33"	28'-10"
D	41"	38'

SECTIONAL DETAIL OF TYPICAL PIPE SUPPORTING BEAM  
1 1/2" = 1'-0"



ISOMETRIC DIAGRAM OF WATER COOLING TOWER PIPING  
1/8" = 1'-0"

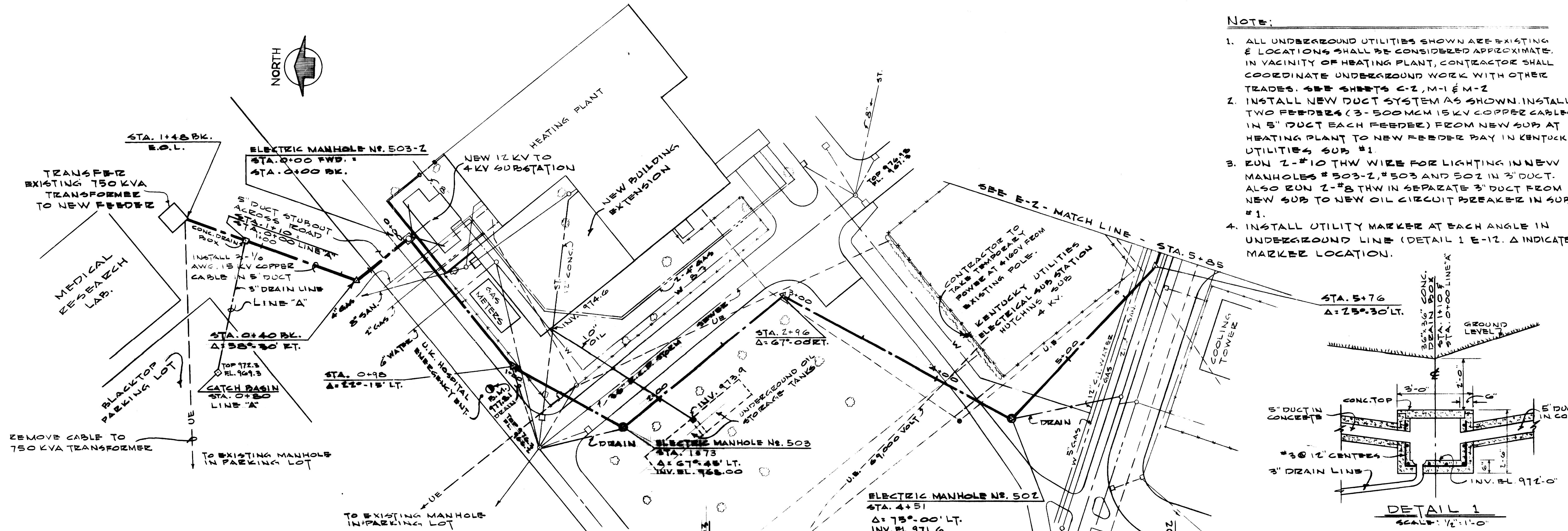
**NOTE**  
ALL PIPE ABOVE GROUND TO MATING FLANGES ON WATER COOLING TOWER TO BE SCHEDULE 10 STEEL WITH VICTAULIC-TYPE JOINTS (CLAMPED WITH RING GASKETS).



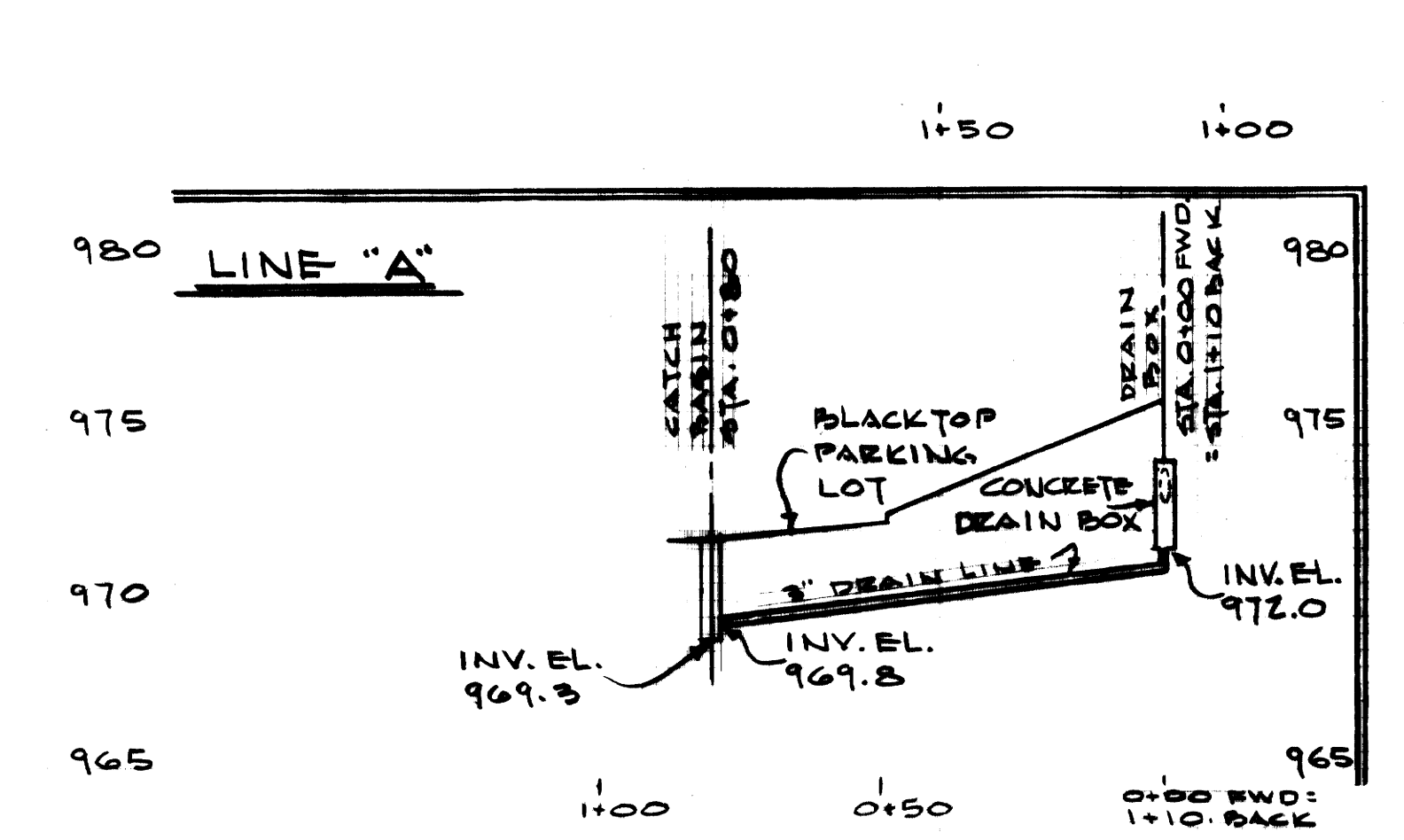
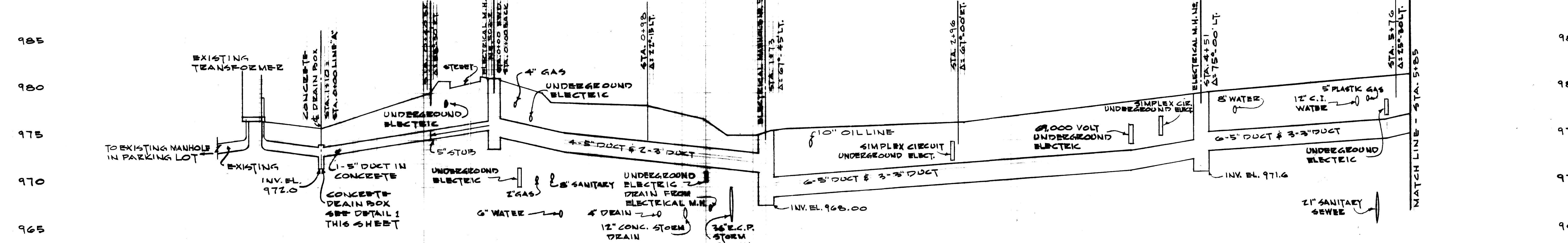
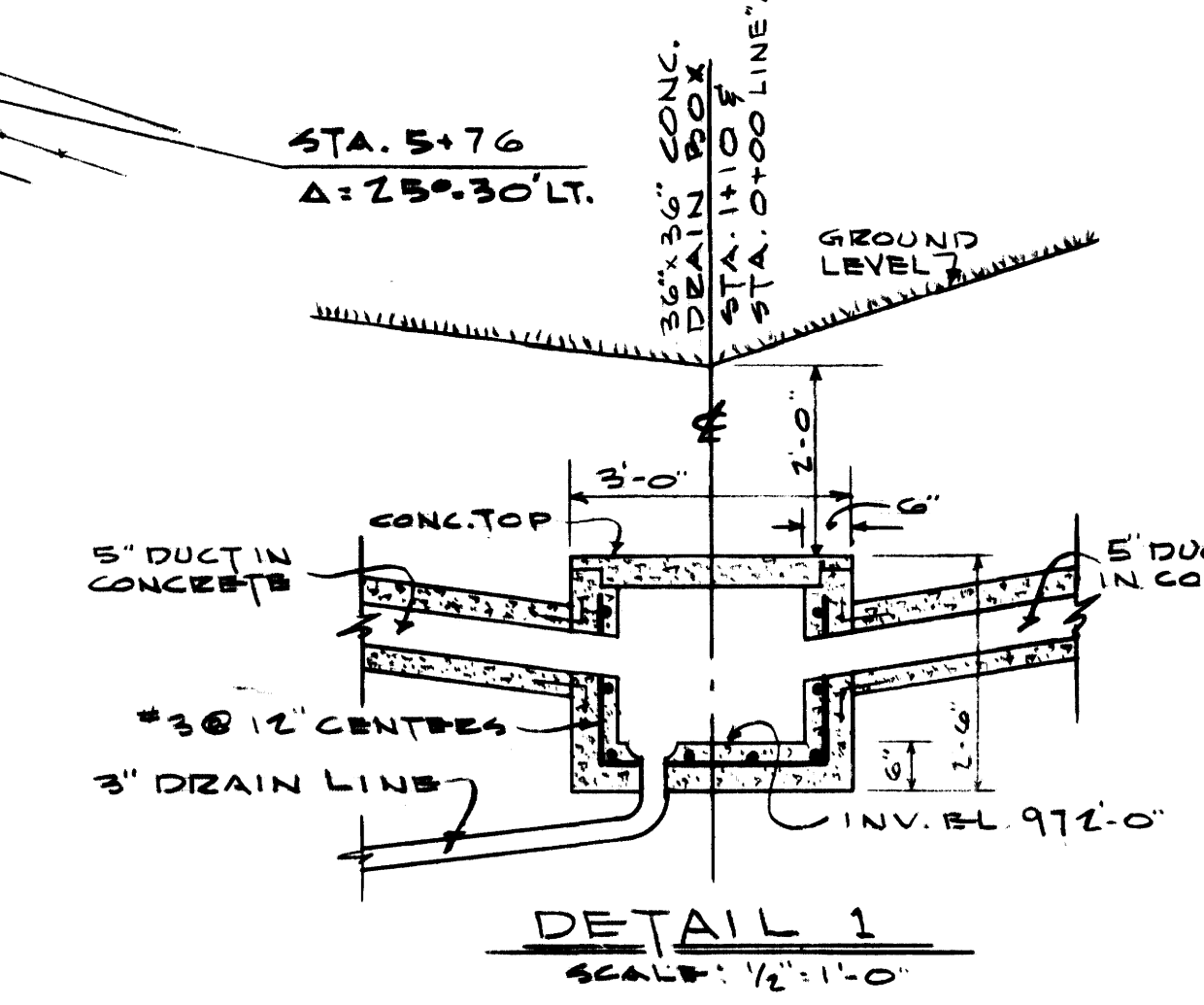
**AS-BUILT DRAWING**  
REVISIONS MADE DURING CONSTRUCTION HAVE BEEN INCLUDED ON THIS DRAWING.  
MASON & HANGER - SILAS MASON CO., INC.  
BY GFS DATE 1-10-72  
REVISED ROUTING OF SUPPLY LINE TO N.W. END OF TOWER

ADDITIONS & RENOVATIONS		
HEATING & COOLING PLANT - A. B. CHANDLER MEDICAL CENTER UNIVERSITY OF KENTUCKY LEXINGTON, KENTUCKY		
DRAWN BY	WATER COOLING TOWER - PIPING & SUPPORTS	DATE 5-28-70
TRACED BY	MASON & HANGER - SILAS MASON CO., INC. 1800 W. MAIN ST. LEXINGTON, KENTUCKY	SCALE AS NOTED
CHECKED BY	GFS	SPEC. NO.
COMMONWEALTH OF KENTUCKY DEPARTMENT OF FINANCE DIVISION OF ENGINEERING FRANKFORT, KENTUCKY		DRAWING NO. M-23
APPROVED BY	W. J. McConnell AGENCY HEAD	DATE 5-28-70
APPROVED BY	W. J. McConnell DIRECTOR, DIVISION OF ENGINEERING	DATE 6-1-70



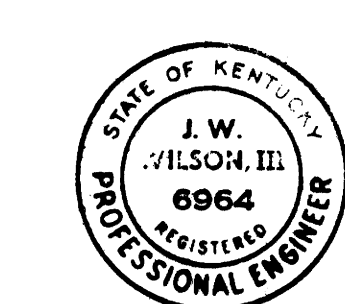


- NOTE:**
1. ALL UNDERGROUND UTILITIES SHOWN ARE EXISTING & LOCATIONS SHALL BE CONSIDERED APPROXIMATE. IN VICINITY OF HEATING PLANT, CONTRACTOR SHALL COORDINATE UNDERGROUND WORK WITH OTHER TRADES. SEE SHEETS C-2, M-1 & M-2
  2. INSTALL NEW DUCT SYSTEM AS SHOWN. INSTALL TWO FEEDERS (3-500 MCM 15KV COPPER CABLES IN 5" DUCT EACH FEEDER) FROM NEW SUB AT HEATING PLANT TO NEW FEEDER BAY IN KENTUCKY UTILITIES SUB #1.
  3. RUN 2-#10 THW WIRE FOR LIGHTING IN NEW MANHOLES # 503-Z, # 503 AND 502 IN 3" DUCT. ALSO RUN 2-#8 THW IN SEPARATE 3" DUCT FROM NEW SUB TO NEW OIL CIRCUIT BREAKER IN SUB #1.
  4. INSTALL UTILITY MARKER AT EACH ANGLE IN UNDERGROUND LINE (DETAIL 1 E-12. Δ INDICATES MARKER LOCATION).

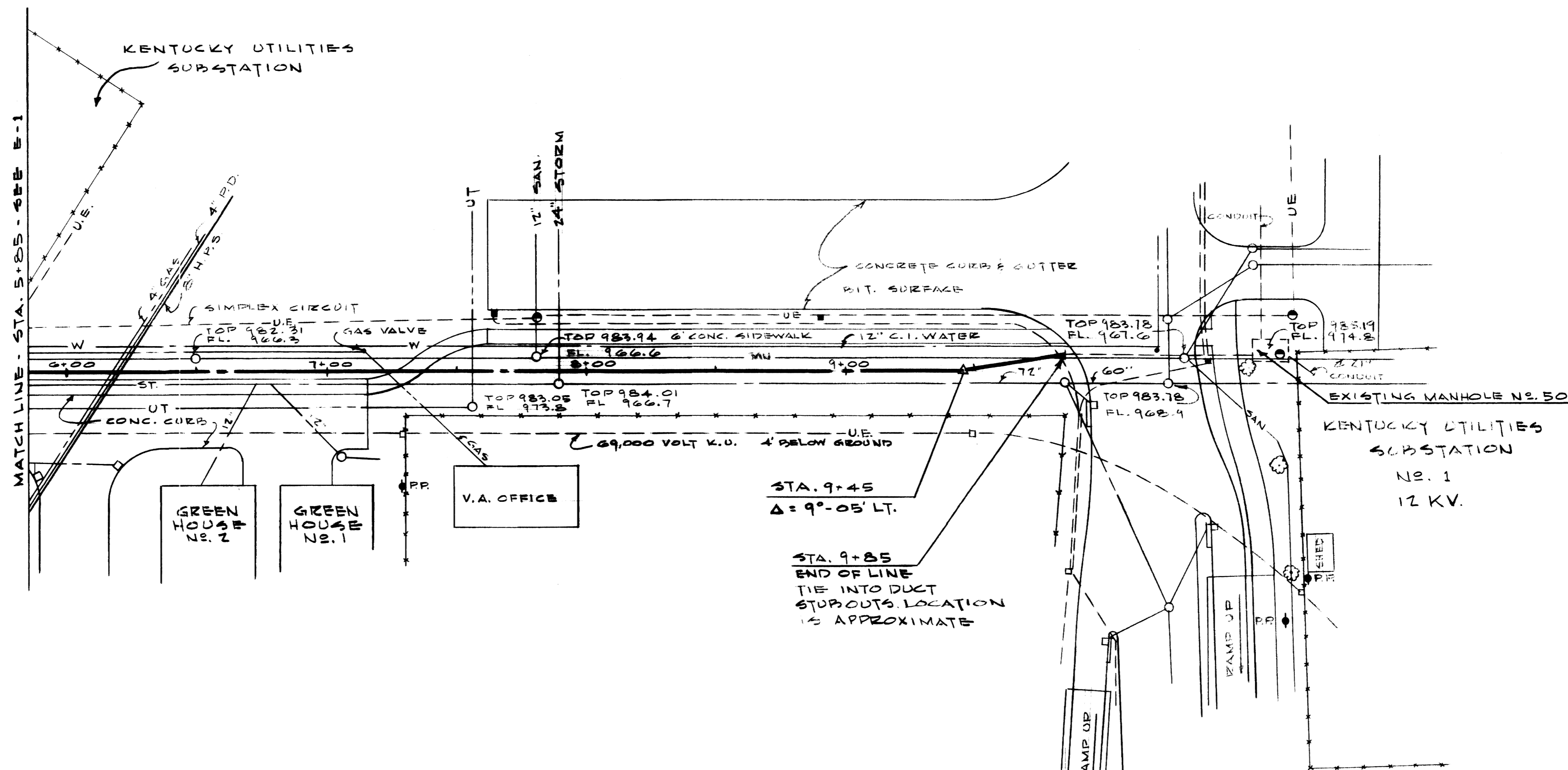
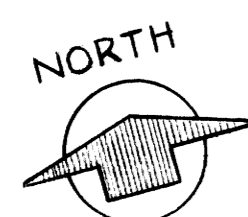


SEE NOTE 1 THIS SHEET

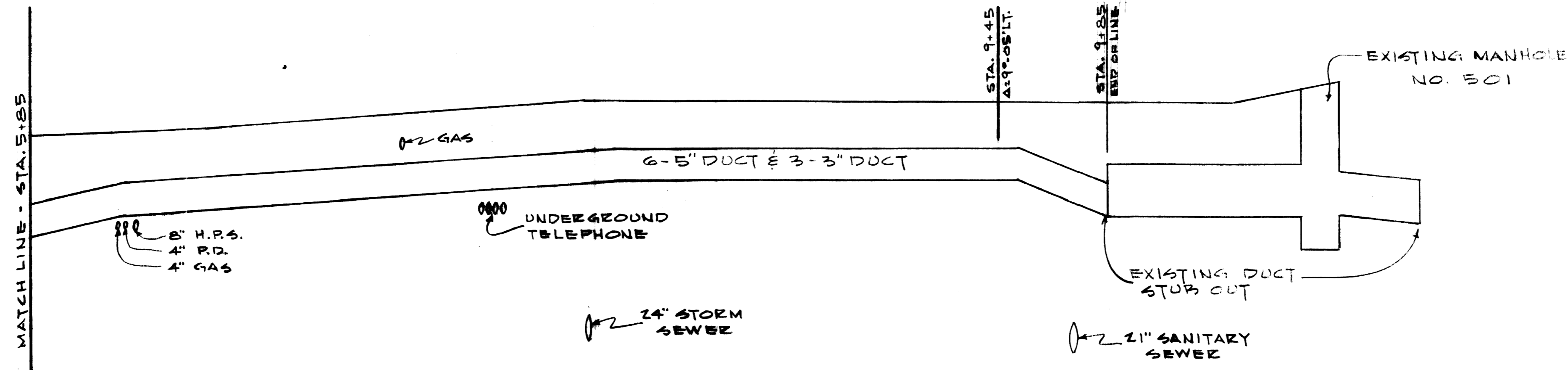
**AS-BUILT DRAWING**  
REVISIONS MADE DURING CONSTRUCTION HAVE BEEN INCLUDED ON THIS DRAWING  
MASON & HANGER - SILAS MASON CO., INC.  
BY GFS DATE 1-10-72  
NO REVISION



ADDITIONS & RENOVATIONS		
HEATING & COOLING PLANT - A. B. CHANDLER MEDICAL CENTER		
UNIVERSITY OF KENTUCKY LEXINGTON, KENTUCKY		
DRAWN BY P.T.K.	12 KV CABLE & DUCT PROFILE, H. & C. PLANT END	DATE 5/28/77
TRACED BY P.T.K.	MASON & HANGER - SILAS MASON CO., INC. 1500 W. MAIN ST. LEXINGTON, KENTUCKY	SCALE 1" = 30'
CHECKED BY J.W.W.		SPEC. NO.
COMMONWEALTH OF KENTUCKY DEPARTMENT OF FINANCE DIVISION OF ENGINEERING FRANKFORT, KENTUCKY		DRAWING # E-1
APPROVED BY <i>J. J. Marshall</i> AGENCY HEAD	DATE 5-28	
APPROVED BY <i>W. J. McConville</i> DIRECTOR, DIVISION OF ENGINEERING	DATE 6-1-70	



985  
980  
975  
970  
965



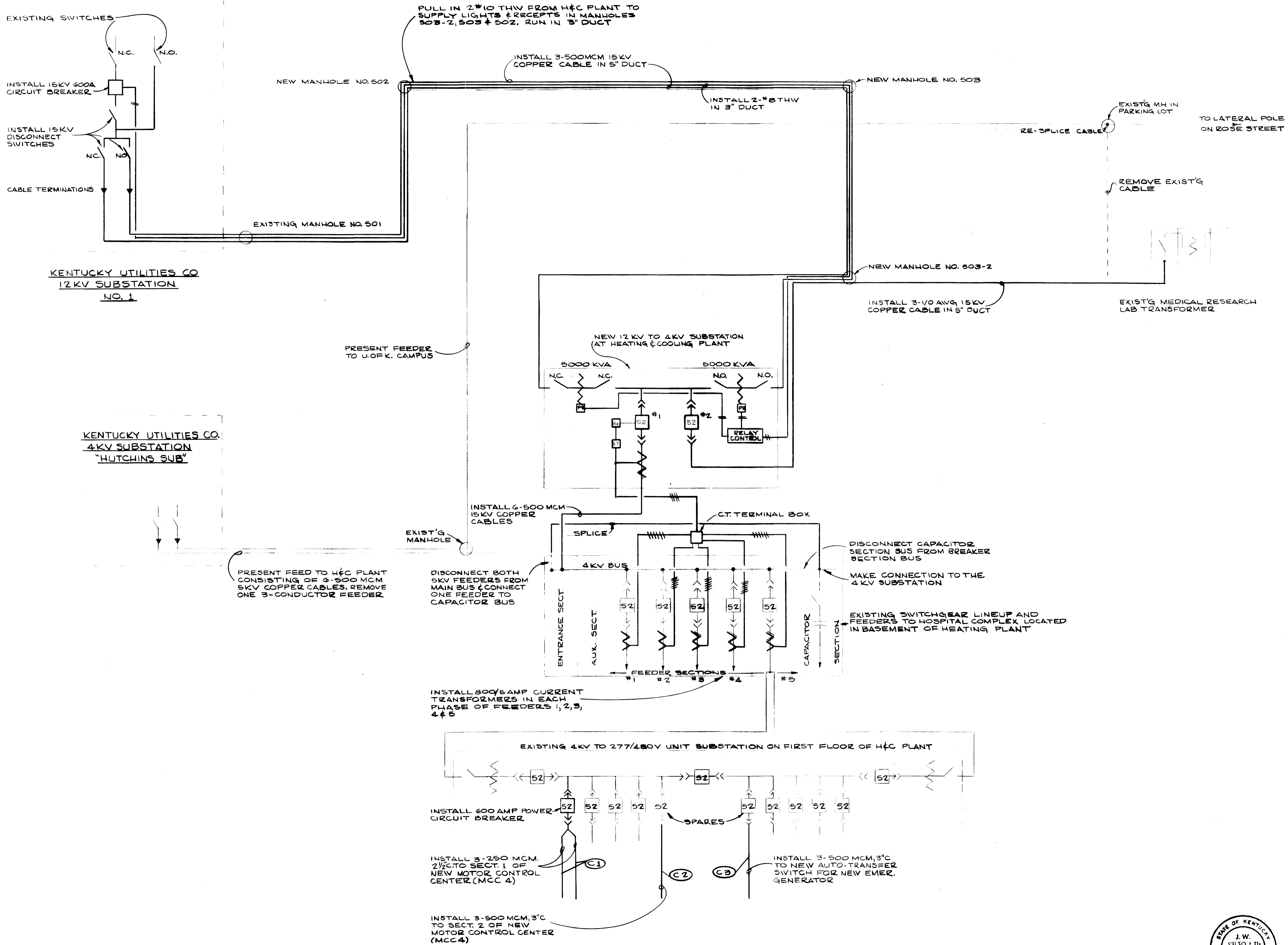
985  
980  
975  
970  
965

5+85 6+00 6+50 7+00 7+50 8+00 8+50 9+00 9+50 10+00 10+50 11+00

**AS - BUILT DRAWING**  
 REVISIONS MADE DURING CONSTRUCTION  
 HAVE BEEN INCLUDED ON THIS DRAWING.  
 MASON & HANGER - SILAS MASON CO., INC.  
 BY GFS DATE 1-10-72  
 NO. 5 REVISIONS



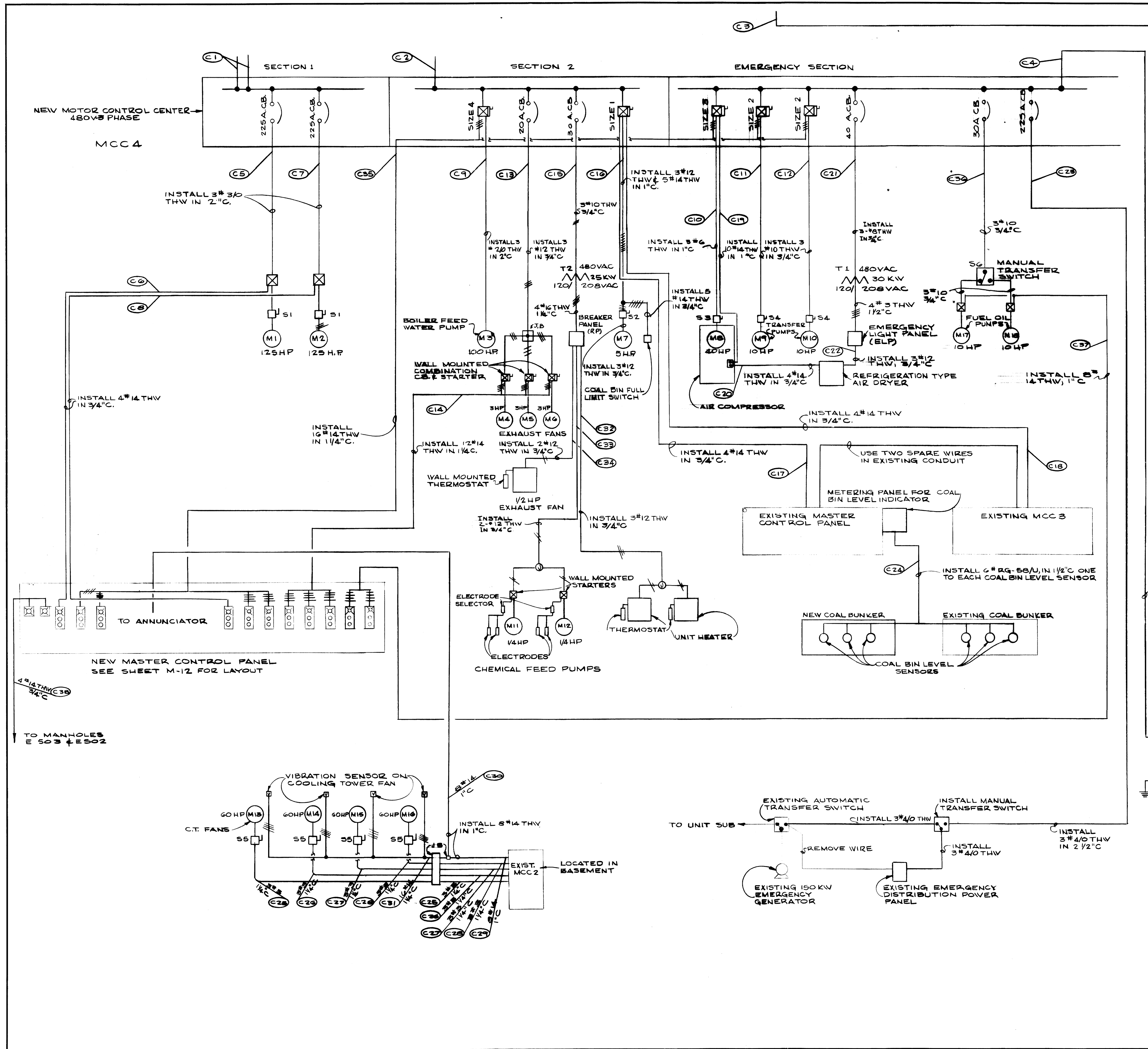
ADDITIONS & RENOVATIONS		
HEATING & COOLING PLANT - A. B. CHANDLER MEDICAL CENTER		
UNIVERSITY OF KENTUCKY LEXINGTON, KENTUCKY		
DRAWN BY P.T.V.	12 KV CABLE & DUCT PROFILE, SUB NO. 1 END	DATE 5/28/77
TRACED BY P.T.V.	MASON & HANGER - SILAS MASON CO., INC. 1500 W. MAIN ST. LEXINGTON, KENTUCKY	SCALE 1" = 30'
CHECKED BY J.W.W.	COMMONWEALTH OF KENTUCKY DEPARTMENT OF FINANCE DIVISION OF ENGINEERING FRANKFORT, KENTUCKY	SPEC NO. DRAWING NO. E-2
APPROVED BY <i>[Signature]</i>	AGENCY HEAD	DATE 5-28-78
APPROVED BY <i>[Signature]</i>	DIRECTOR DIVISION OF ENGINEERING	DATE 6-1-70



**AS-BUILT DRAWING**  
 REVISIONS MADE DURING CONSTRUCTION  
 HAVE BEEN INCLUDED ON THIS DRAWING  
 MASON & HANGER - SILAS MASON CO., INC.  
 BY: GFS DATE: 1-10-72  
 NO. REVISIONS

ADDITIONS & RENOVATIONS		
HEATING & COOLING PLANT - A. B. CHANDLER MEDICAL CENTER UNIVERSITY OF KENTUCKY LEXINGTON, KENTUCKY		
DRAWN BY J.W.W.	<b>MAIN POWER SCHEMATIC</b>	DATE 5/28/70
TRACED BY N.G.	MASON & HANGER - SILAS MASON CO., INC. 1500 W. MAIN ST. LEXINGTON, KENTUCKY	SCALE AS NOTED
CHECKED BY J.W.W.	COMMONWEALTH OF KENTUCKY DEPARTMENT OF FINANCE DIVISION OF ENGINEERING FRANKFORT, KENTUCKY	SPEC. NO. E-3
APPROVED BY <i>[Signature]</i> AGENCY HEAD		DATE 5-28-70
APPROVED BY <i>[Signature]</i> DIRECTOR, DIVISION OF ENGINEERING		DATE 6-1-70





**MOTOR SCHEDULE**

- M1 NEW BOILER #3 DRAFT FAN MOTOR
- M2 " " #4 " " " "
- M3 BOILER FEED PUMP
- M4 " " " " " " " "
- M5 " " " " " " " "
- M6 " " " " " " " "
- M7 SCREW COAL CONVEYOR MOTOR
- M8 AIR COMPRESSOR MOTOR
- M9 TRANSFER PUMP
- M10 TRANSFER PUMP
- M11 CHEMICAL FEED PUMP
- M12 CHEMICAL FEED PUMP
- M13 " " " " " " " "
- M14 " " " " " " " "
- M15 " " " " " " " "
- M16 " " " " " " " "
- M17 FUEL OIL PUMPS
- M18 " " " " " " " "

**LEGEND**

- COMBINATION CIRCUIT BREAKER & MOTOR STARTER
- MOTOR STARTER
- SAFETY DISCONNECT SWITCH
- START-STOP PUSHBUTTON STATION WITH RED RUNNING LIGHT
- MOTOR STARTER WITH PUSH BUTTON STATION

**EQUIPMENT SCHEDULE**

- NOTE  
ALL SWITCHES ARE 3 POLE, 480VAC NON FUSABLE TYPE
- S1 200 AMP SAFETY SWITCH IN NEMA 1 ENCLOSURE
  - S2 30 AMP SAFETY SWITCH IN NEMA 3R ENCLOSURE
  - S3 100 AMP SAFETY SWITCH IN NEMA 1 ENCLOSURE
  - S4 30 AMP SAFETY SWITCH IN NEMA 1 ENCLOSURE
  - S5 100 AMP SAFETY SWITCH IN NEMA 3R ENCLOSURE
  - S6 30 AMP DOUBLE THROW SWITCH IN NEMA 1 ENCLOSURE

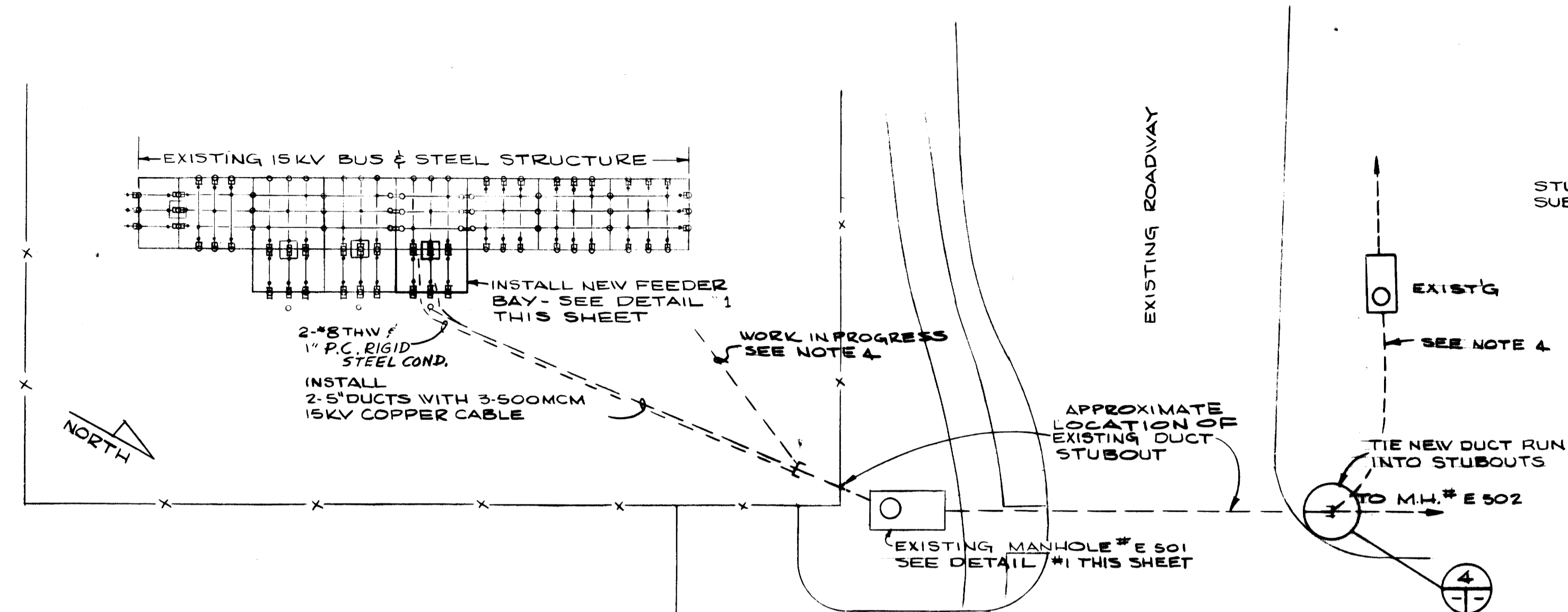
AS-BUILT DRAWING  
REVISIONS MADE DURING CONSTRUCTION HAVE BEEN INCLUDED ON THIS DRAWING  
MASON & HANGER — SILAS MASON CO., INC.  
BY GFS DATE 1-10-72  
CHANGED STARTER & WIRE SIZE  
TO M-9 & M-10

ADDITIONS & RENOVATIONS		
HEATING & COOLING PLANT — A. B. CHANDLER MEDICAL CENTER		
UNIVERSITY OF KENTUCKY		LEXINGTON, KENTUCKY
DRAWN BY M. P.	DISTRIBUTION SCHEMATIC	DATE 5/26/70
TRACED BY N. Q.	MASON & HANGER-SILAS MASON CO., INC. 1500 W. MAIN ST. LEXINGTON, KENTUCKY	SCALE AS NOTED
CHECKED BY J. W. W.	COMMONWEALTH OF KENTUCKY DEPARTMENT OF FINANCE DIVISION OF ENGINEERING FRANKFORT KENTUCKY	SPEC. NO. DRAWING NO. E-4
APPROVED BY <i>J. W. Wilson, III</i>	AGENCY HEAD	DATE 5-28-70
APPROVED BY <i>G. J. Marshall</i>	DIRECTOR, DIVISION OF ENGINEERING	DATE 6-1-70

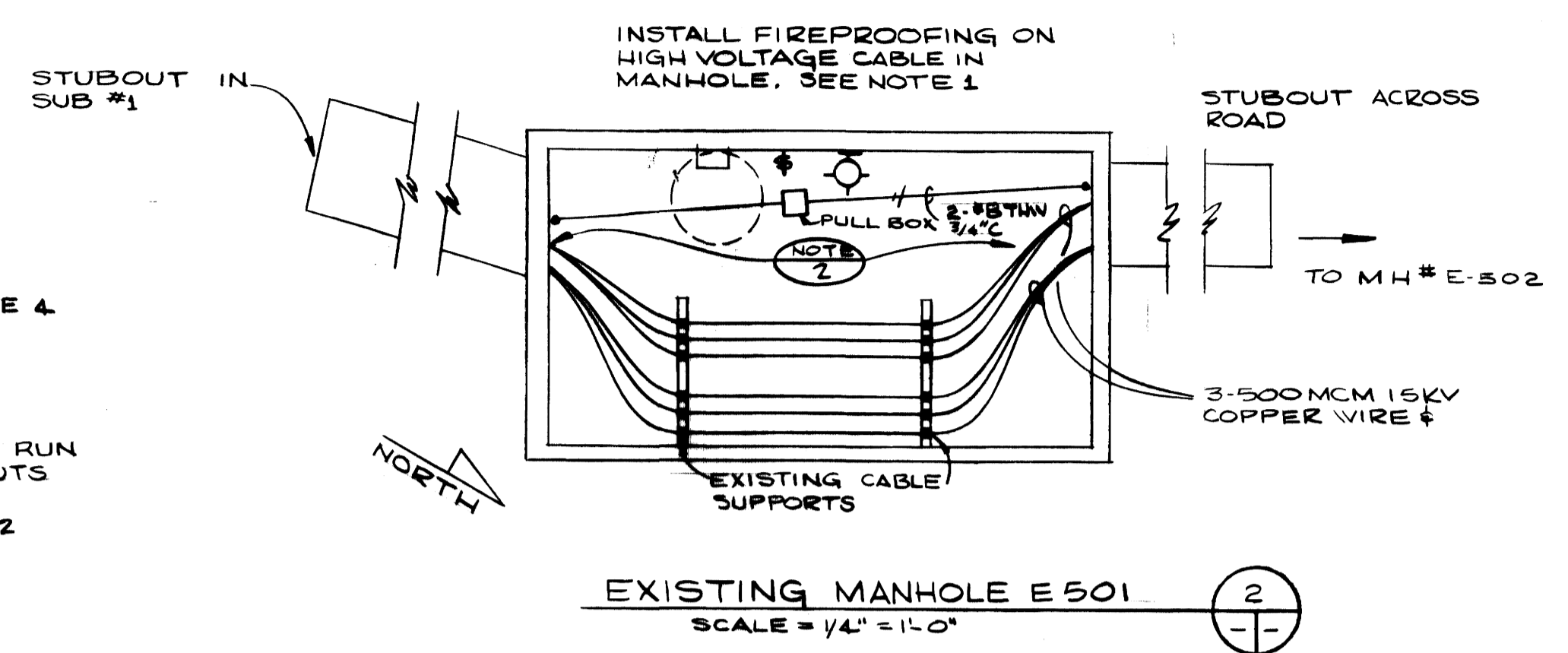


NOTES

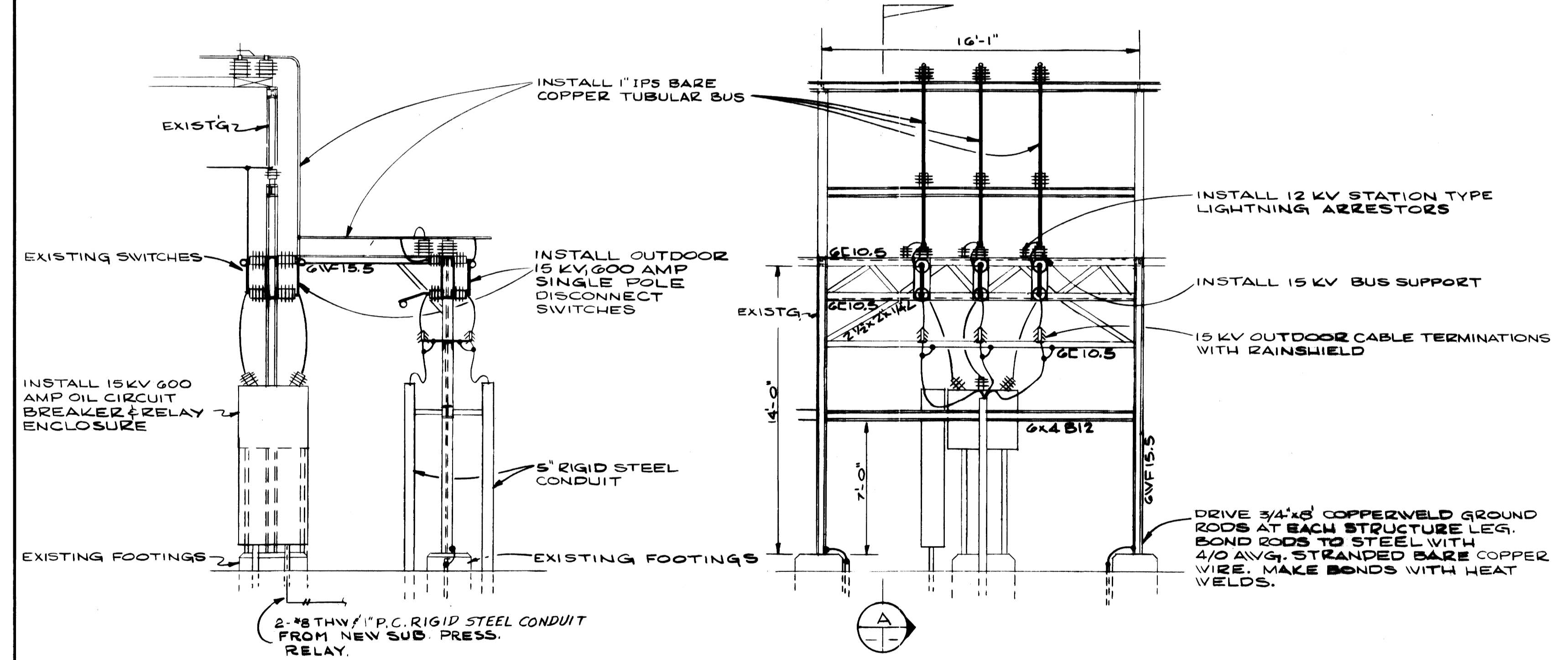
1. FIREPROOF CABLE WITH DOUBLE WRAP OF ELECTRIC ARC & FIREPROOF TAPE. FIRST WRAP SHALL BE HALF LAP AND THE SECOND WRAP SHALL BE A BUTT WRAP
2. UTILIZE 2-5" DUCTS AT LOWEST ELEVATION AVAILABLE IN DUCT BANK
3. SUBSTATION FRAMEWORK STEEL SHALL MATCH EXISTING. NOTED DIMENSIONS ARE APPROXIMATE
4. WORK IN PROGRESS CONNECTED WITH AG. SCIENCE #2 BLDG. CONTRACTOR SHALL AVOID CONFLICT



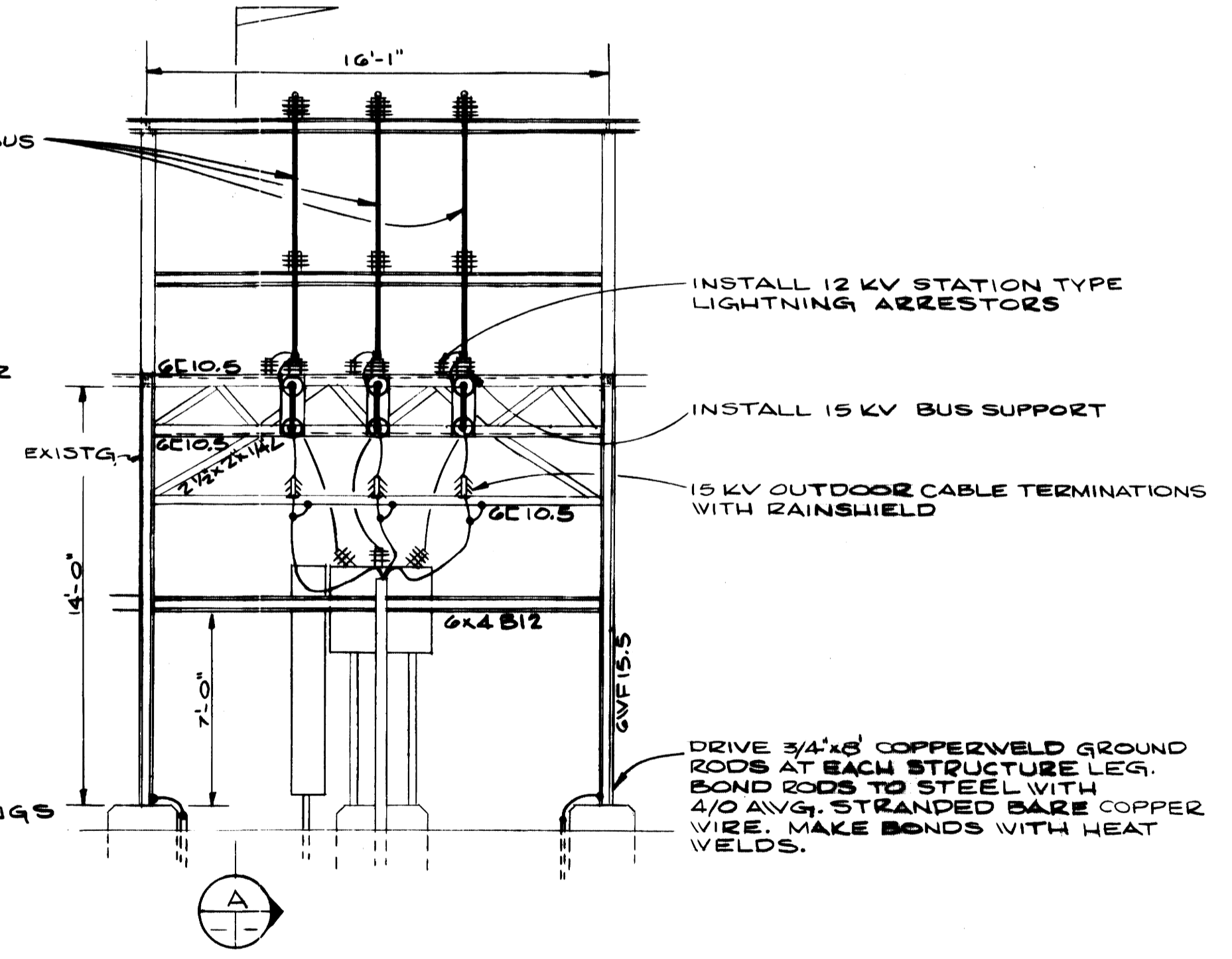
KENTUCKY UTILITY SUBSTATION #1  
15 KV BUS DETAIL  
NO SCALE



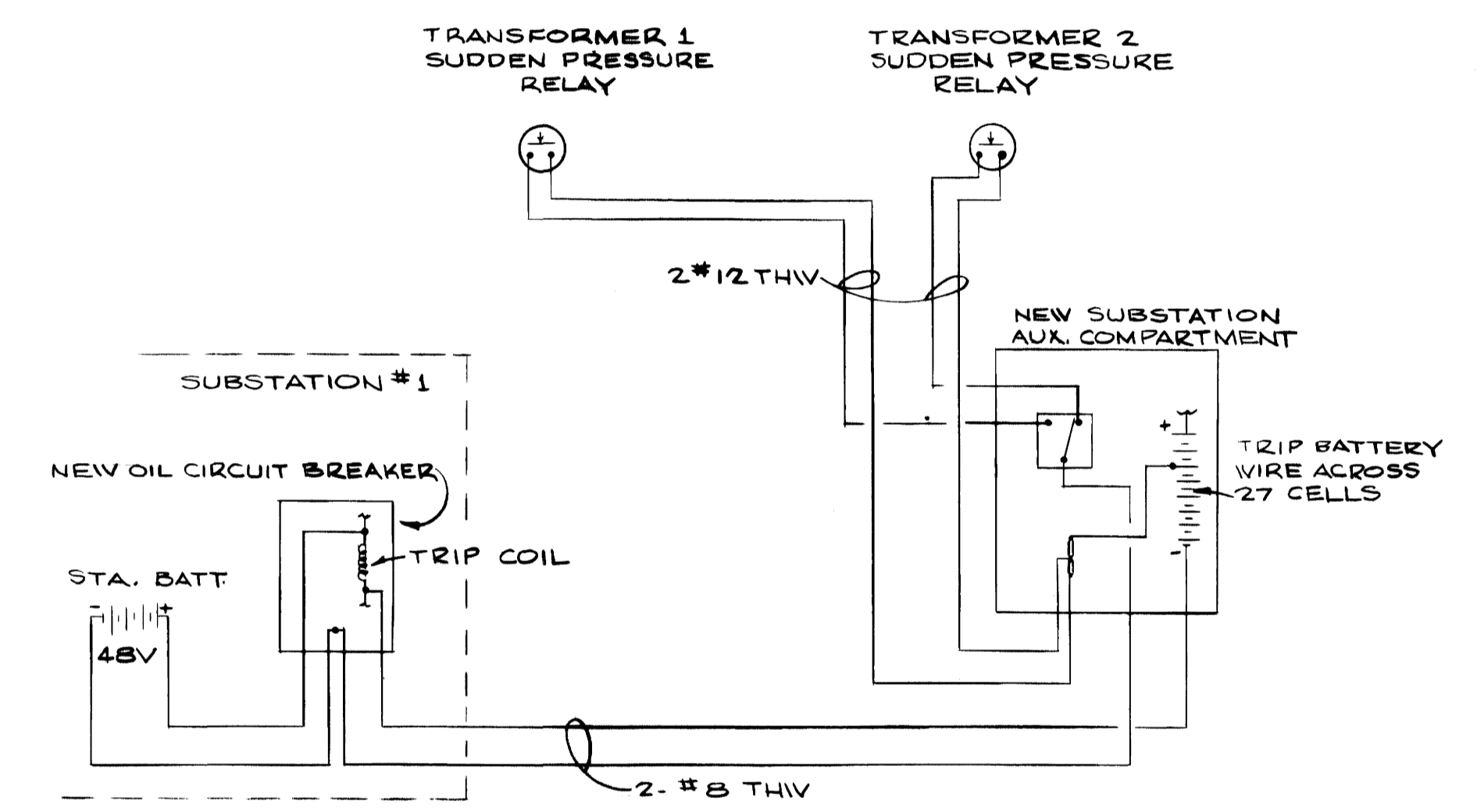
EXISTING MANHOLE E 501  
SCALE = 1/4" = 1'-0"



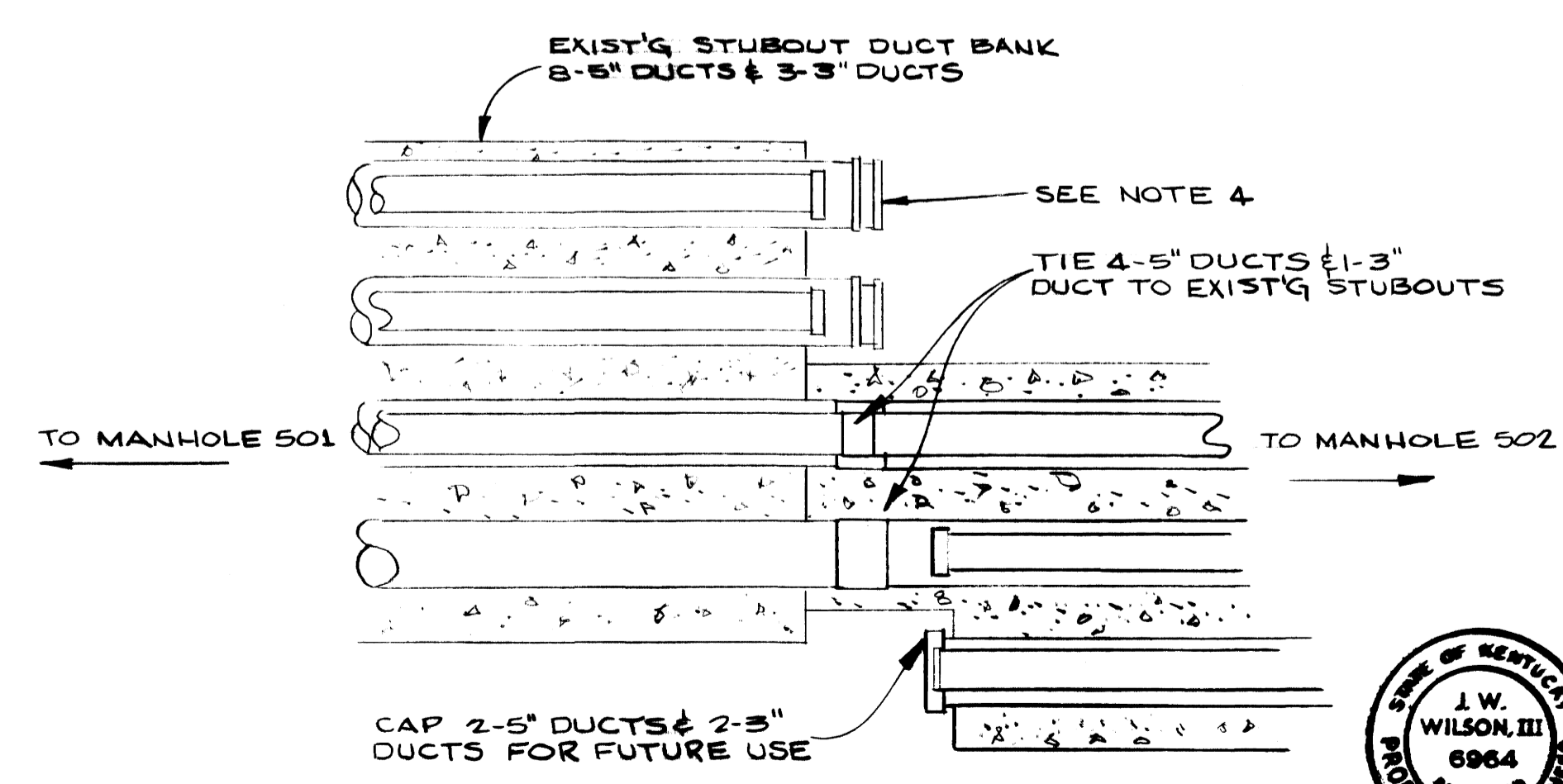
NEW FEEDER BAY DETAIL  
SCALE 1/4" = 1'-0"



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



NEW SUB. SUDDEN PRESSURE RELAY DETAIL  
SCALE 1/4" = 1'-0"

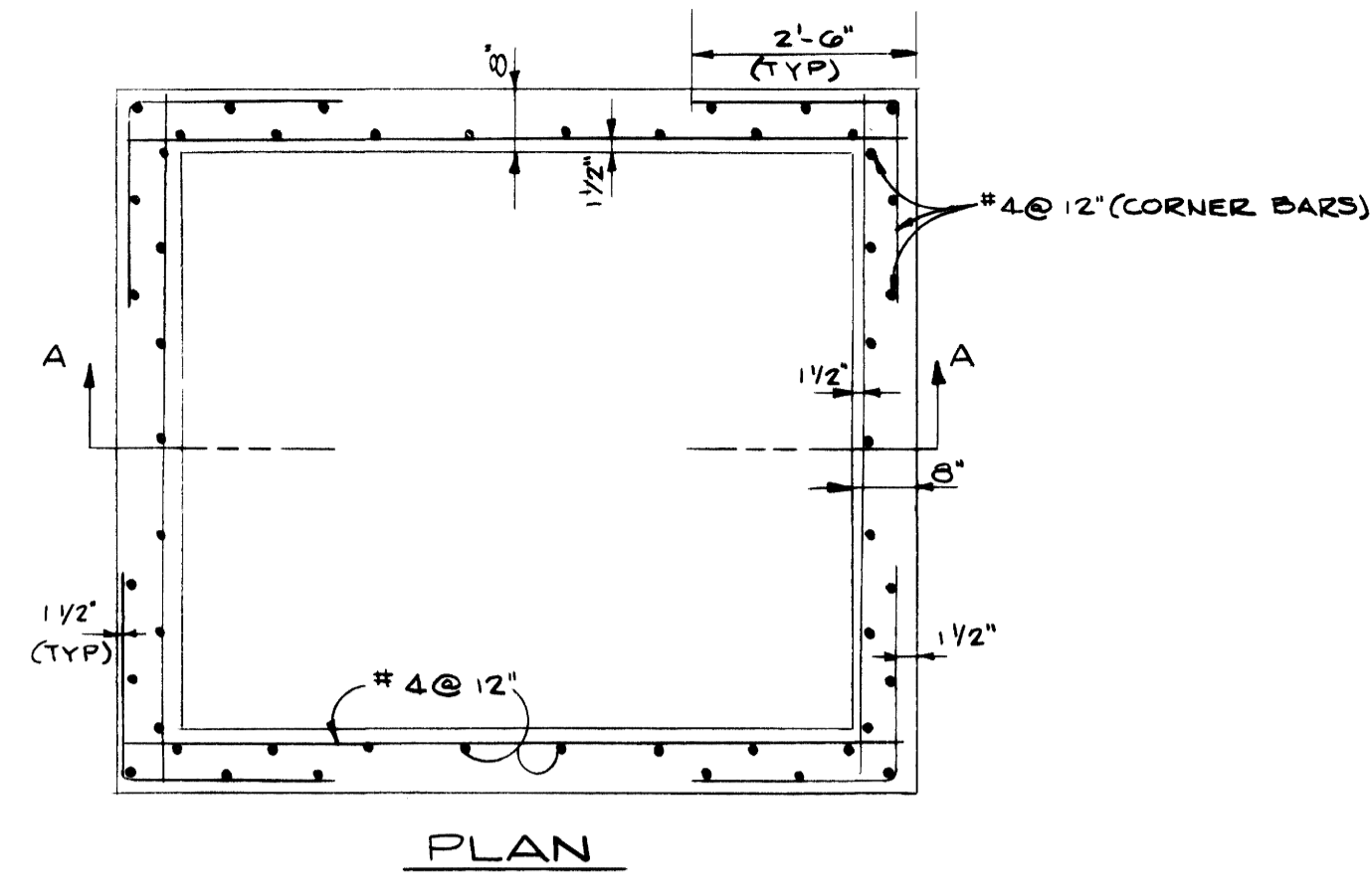


DUCT JUNCTION DETAIL  
SCALE 1" = 1'-0"

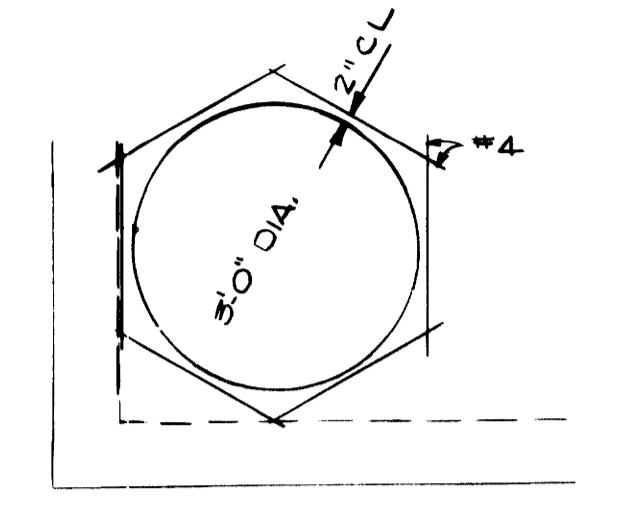
AS-BUILT DRAWING  
REVISIONS MADE DURING CONSTRUCTION  
HAVE BEEN INCLUDED ON THIS DRAWING  
MASON & HANGER - SILAS MASON CO., INC.  
BY GFS DATE 1-10-72  
CHANGED CAST IRON UNDERGROUND  
CONDUIT TO PLASTIC COATED RIBBON  
STEEL.

ADDITIONS & RENOVATIONS HEATING & COOLING PLANT - A. B. CHANDLER MEDICAL CENTER UNIVERSITY OF KENTUCKY LEXINGTON, KENTUCKY		
DRAWN BY J.W.W.	12 KV SUBSTATION NO. 1 & MANHOLE DETAILS	DATE 5/28/70
TRACED BY N.S.	MASON & HANGER - SILAS MASON CO., INC. 1500 W. MAIN ST. LEXINGTON, KENTUCKY	SCALE AS NOTED
CHECKED BY S.W.W.	COMMONWEALTH OF KENTUCKY DEPARTMENT OF FINANCE DIVISION OF ENGINEERING FRANKFORT KENTUCKY	SPEC. NO. E-5
APPROVED BY I. W. Wilson, III AGENCY HEAD		DATE 5-28-70
APPROVED BY W. J. McConnaughey DIRECTOR, DIVISION OF ENGINEERING		DATE 6-1-70

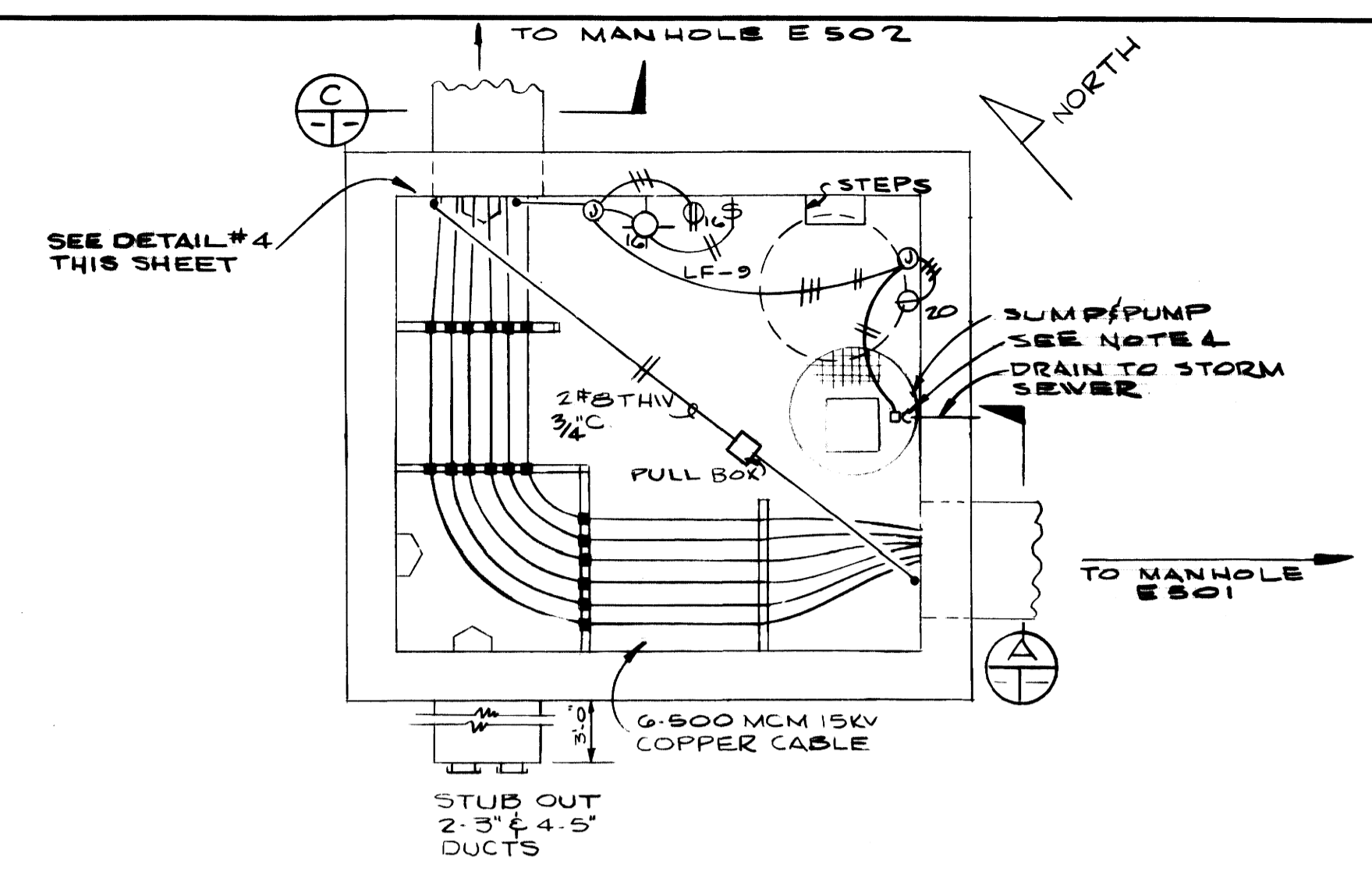




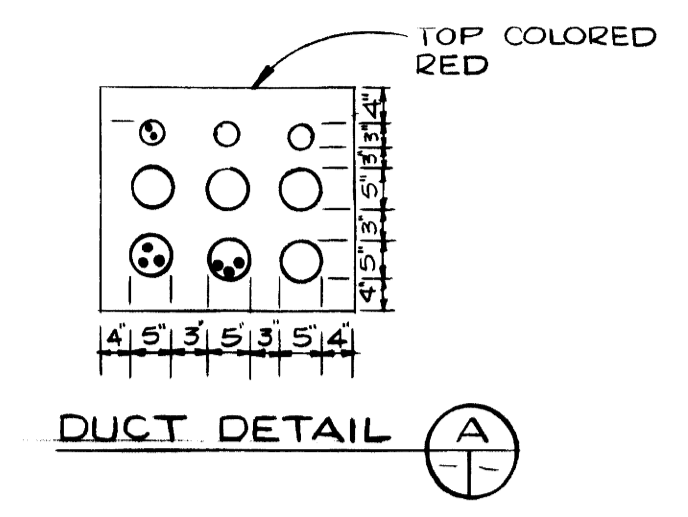
PLAN



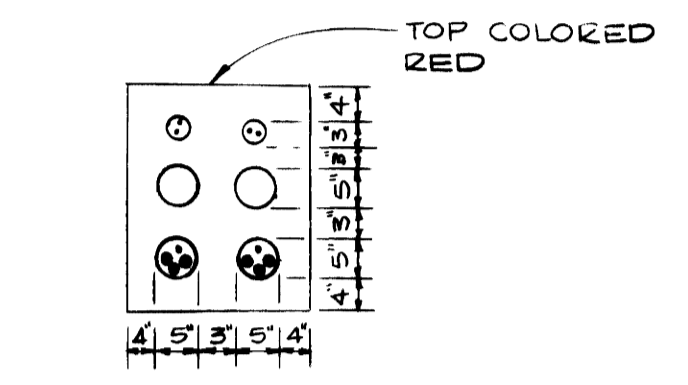
OPENING FOR MANHOLE  
SCALE 1/2"=1'-0"



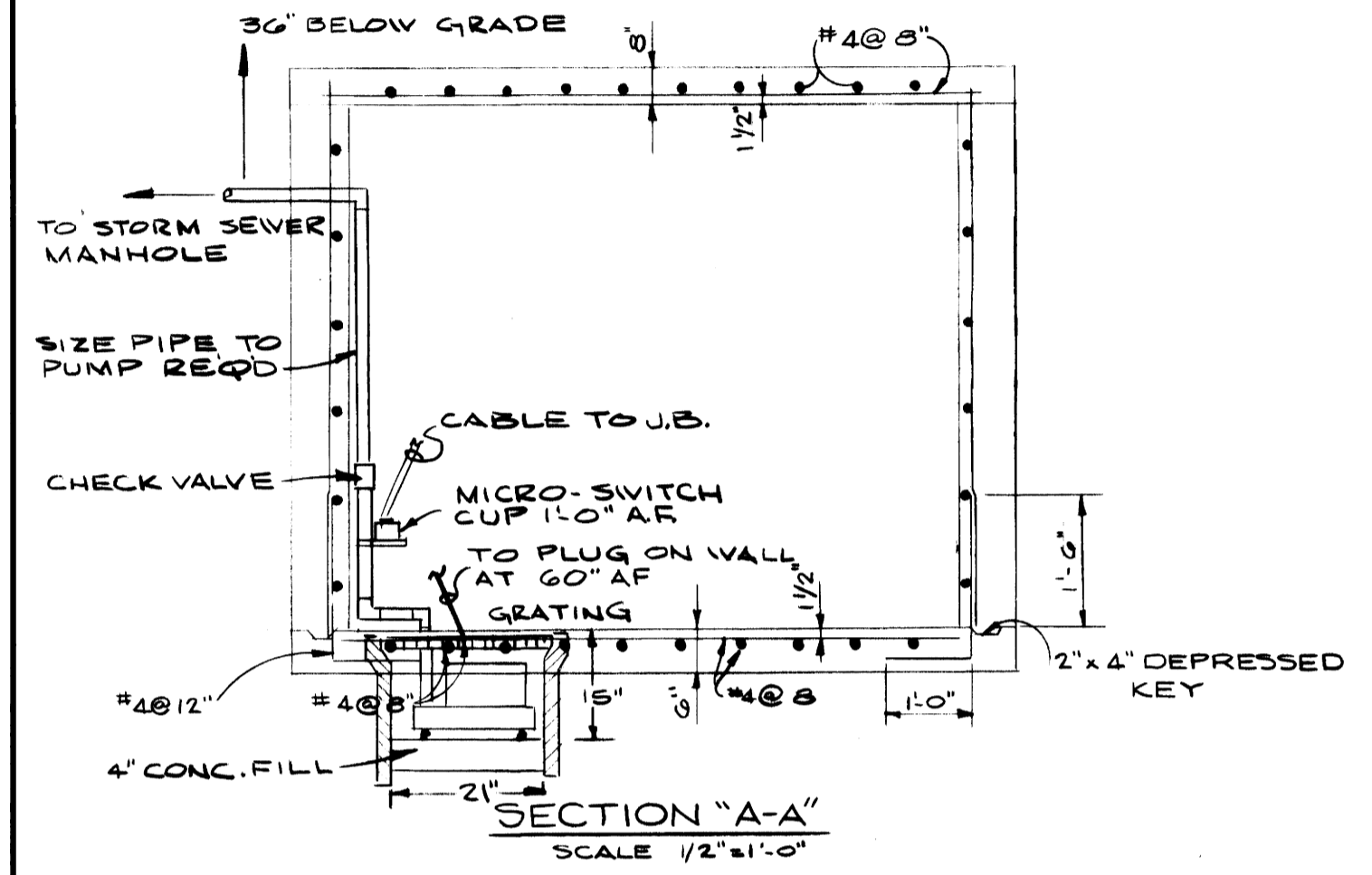
MANHOLE # E-502  
SCALE 1/2"=1'-0"



DUCT DETAIL A

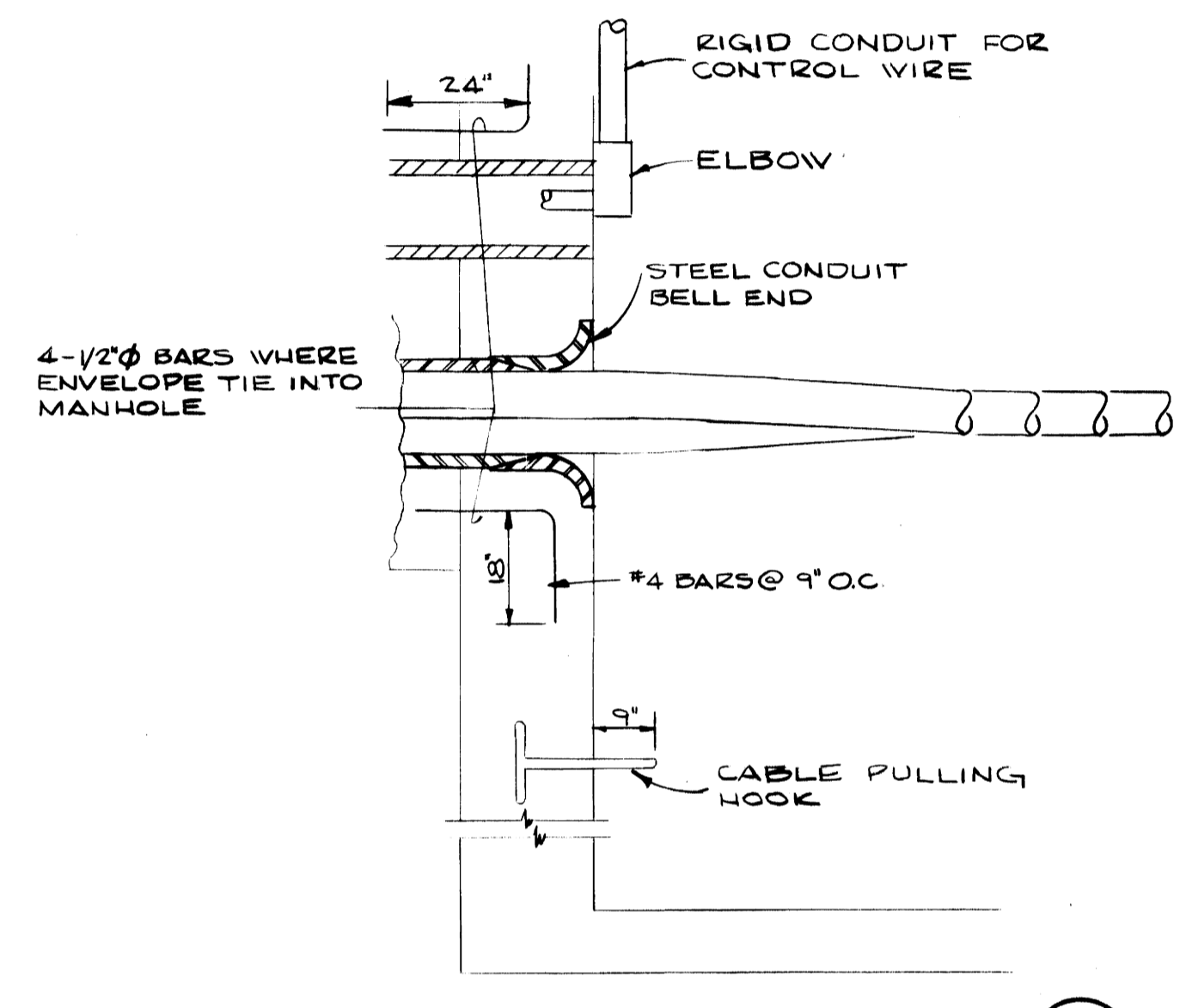


DUCT DETAIL B

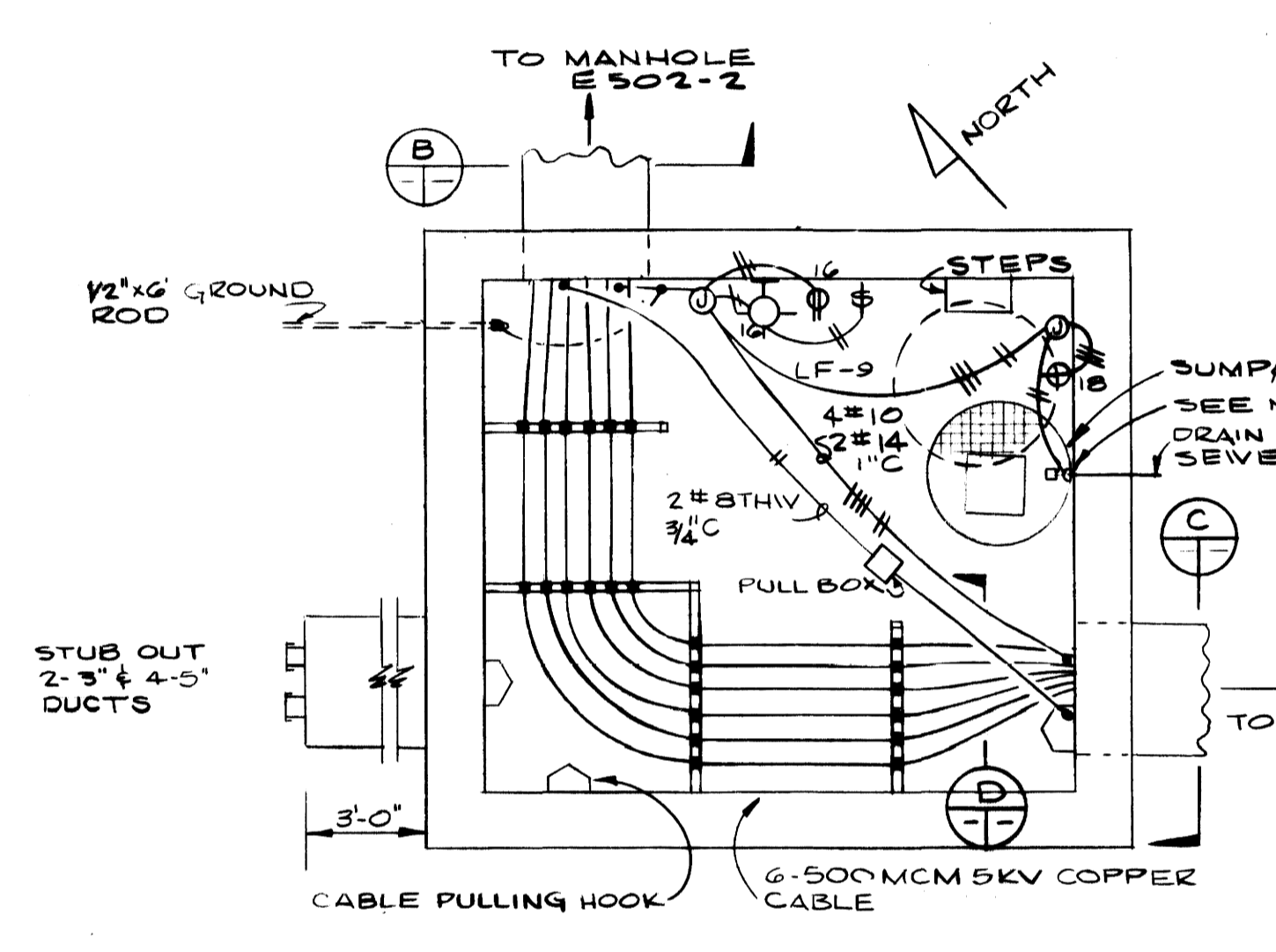


SECTION "A-A"  
SCALE 1/2"=1'-0"

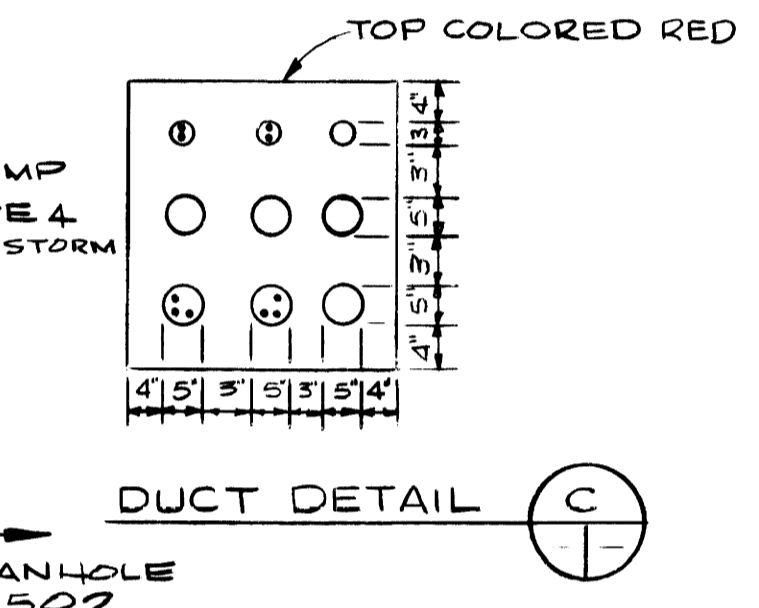
TYPICAL MANHOLE STRUCTURAL DETAIL  
SCALE 1/2"=1'-0"



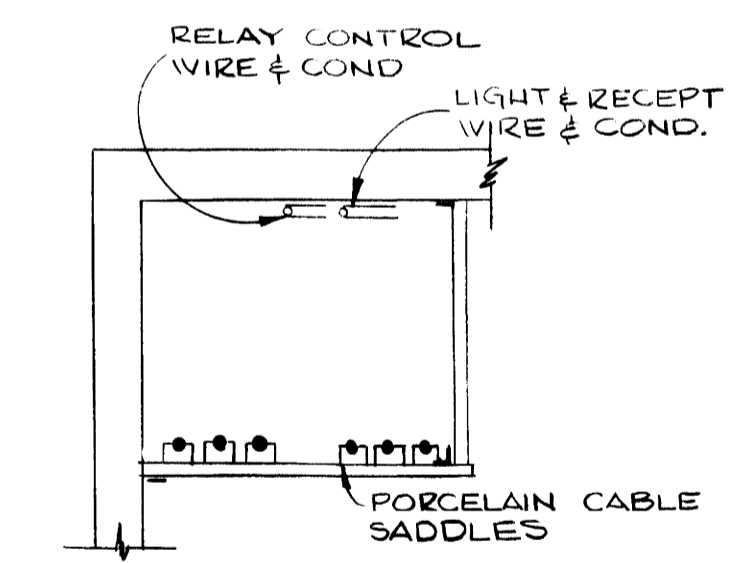
CONDUIT ENTRANCE  
NO SCALE



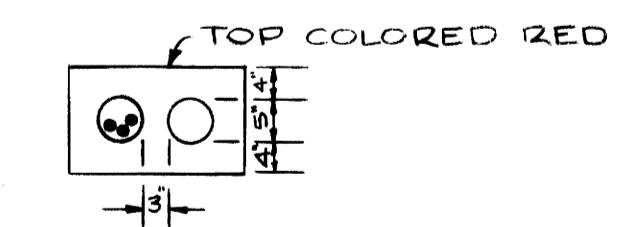
MANHOLE # E-503  
SCALE 1/2"=1'-0"



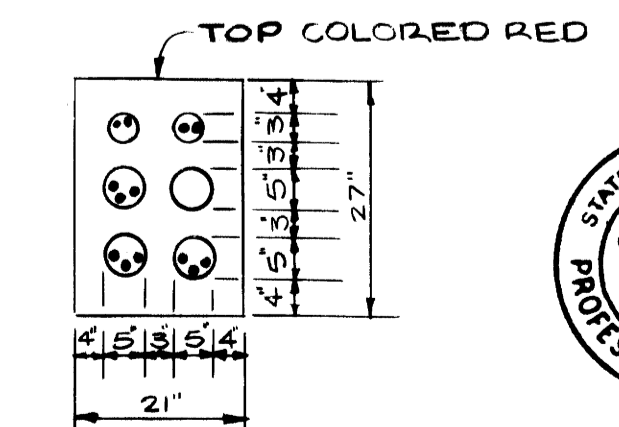
DUCT DETAIL C



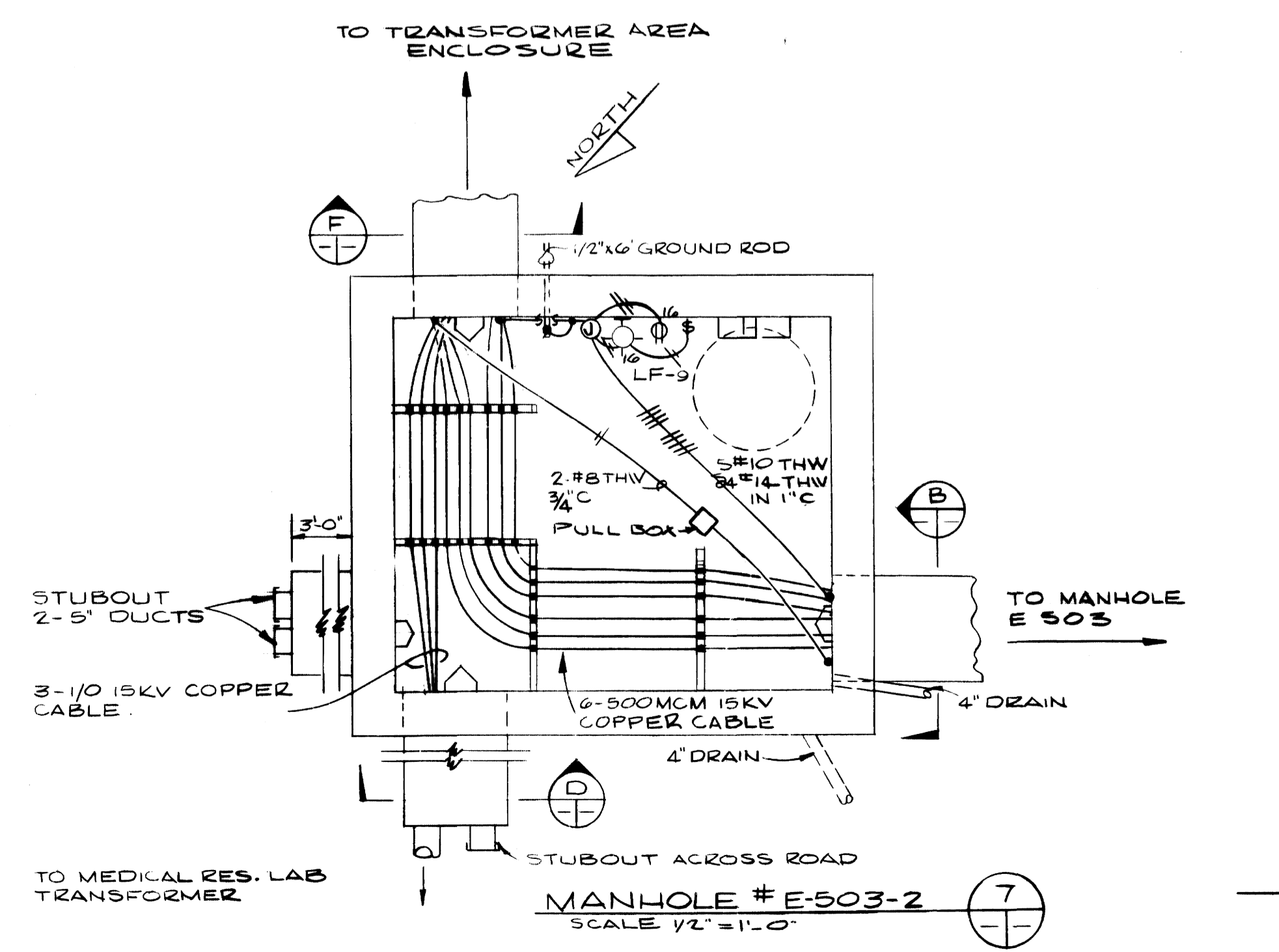
CABLE SUPPORT



DUCT DETAIL D



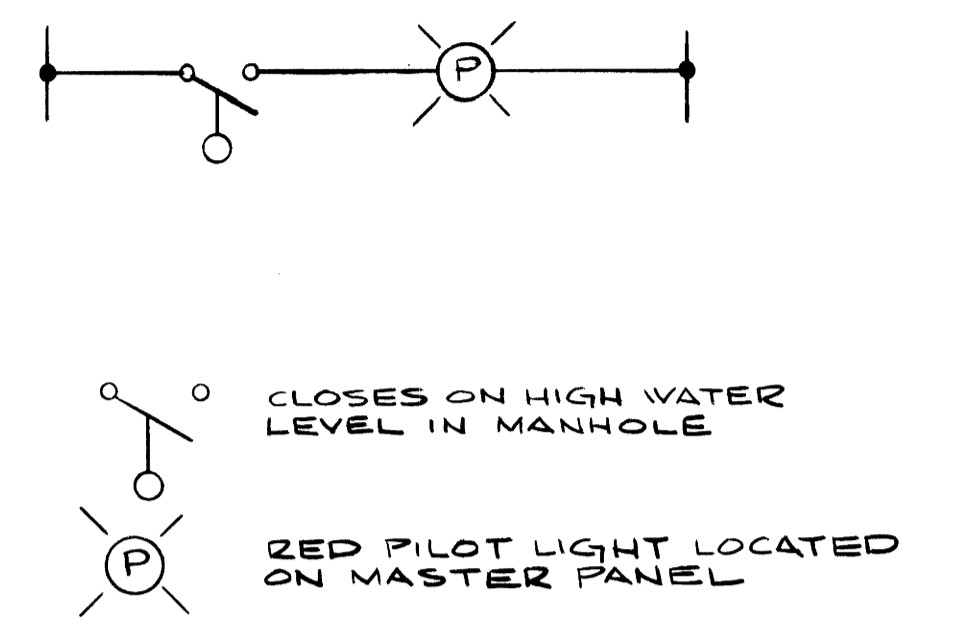
DUCT DETAIL E



MANHOLE # E-503-2  
SCALE 1/2"=1'-0"

DUCT DETAIL F

- NOTES
- 1 ALL LOW VOLTAGE POWER & CONTROL WIRE SHALL BE RUN IN RIGID CONDUIT INSIDE OF MANHOLES
  - 2 LOCATE ALL LIGHTS, RECEPTS, & CONDUIT ABOVE 5'-0" ELEVATION
  - 3 RUN EQUIPMENT GROUND FROM PANEL RPT TO RECEPTS IN MANHOLES
  - 4 CIRCUIT RP 20 110VAC LIQUID LEVEL

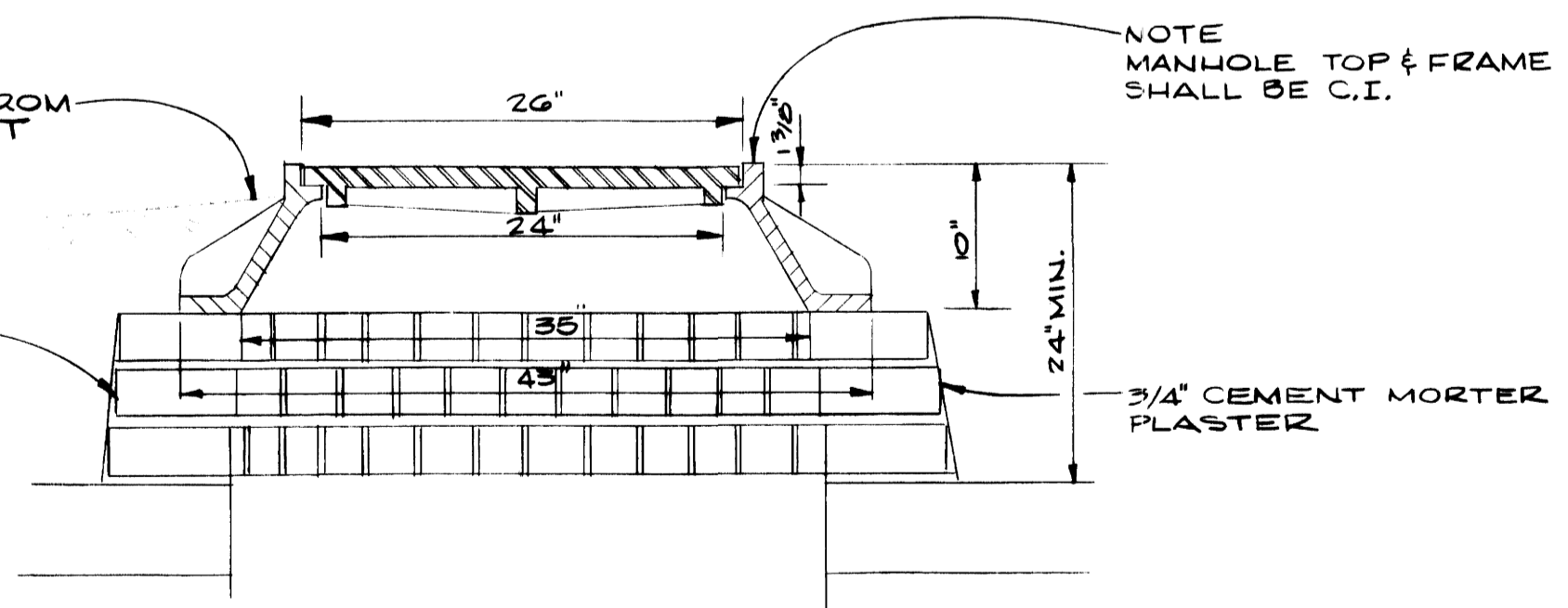


MH TOP & FRAME TO CONFORM TO EXIST'G GRADE & SLOPES MH TOP SHALL BE 1" ABOVE EXIST'G GRADE TO ENABLE EARTH TO SLOPE AWAY FROM OPENING

GRADE TO SLOPE AWAY FROM COVER AT 1/2" PER FOOT FOR AT LEAST 5'

NEW HARD BURNED COMMON CLAY BRICK NR OF LAYERS AS REQ'D

NOTE MANHOLE TOP & FRAME SHALL BE C.I.



MANHOLE COVER AND FRAME (TYP)

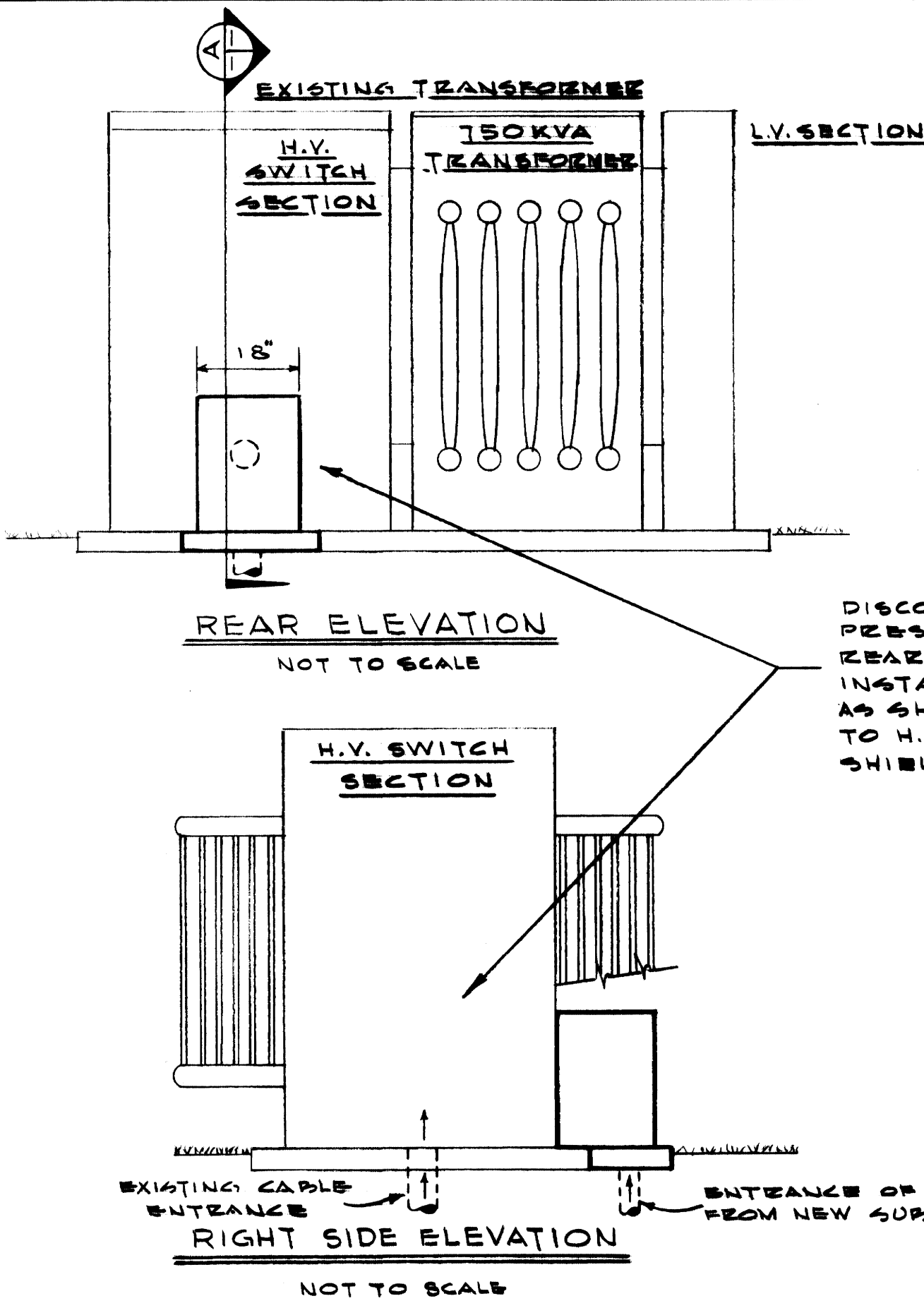
GFS 1-10-72  
NO REVISIONS

ADDITIONS & RENOVATIONS		
HEATING & COOLING PLANT - A. B. CHANDLER MEDICAL CENTER		
UNIVERSITY OF KENTUCKY LEXINGTON, KENTUCKY		
DRAWN BY T.W.W.	12 KV MANHOLE DETAILS	DATE 5/28/70
TRACED BY N.C.	MASON & HANGER-SILAS MASON CO., INC. 1500 W. MAIN ST. LEXINGTON, KENTUCKY	SCALE A9 NOT TO D
CHECKED BY T.W.W.	COMMONWEALTH OF KENTUCKY DEPARTMENT OF FINANCE DIVISION OF ENGINEERING FRANKFORT KENTUCKY	SPEC. NO. E-6
APPROVED BY <i>[Signature]</i>	AGENCY HEAD	DATE 5-28-70
APPROVED BY <i>[Signature]</i>	DIRECTOR, DIVISION OF ENGINEERING	DATE 6-1-70

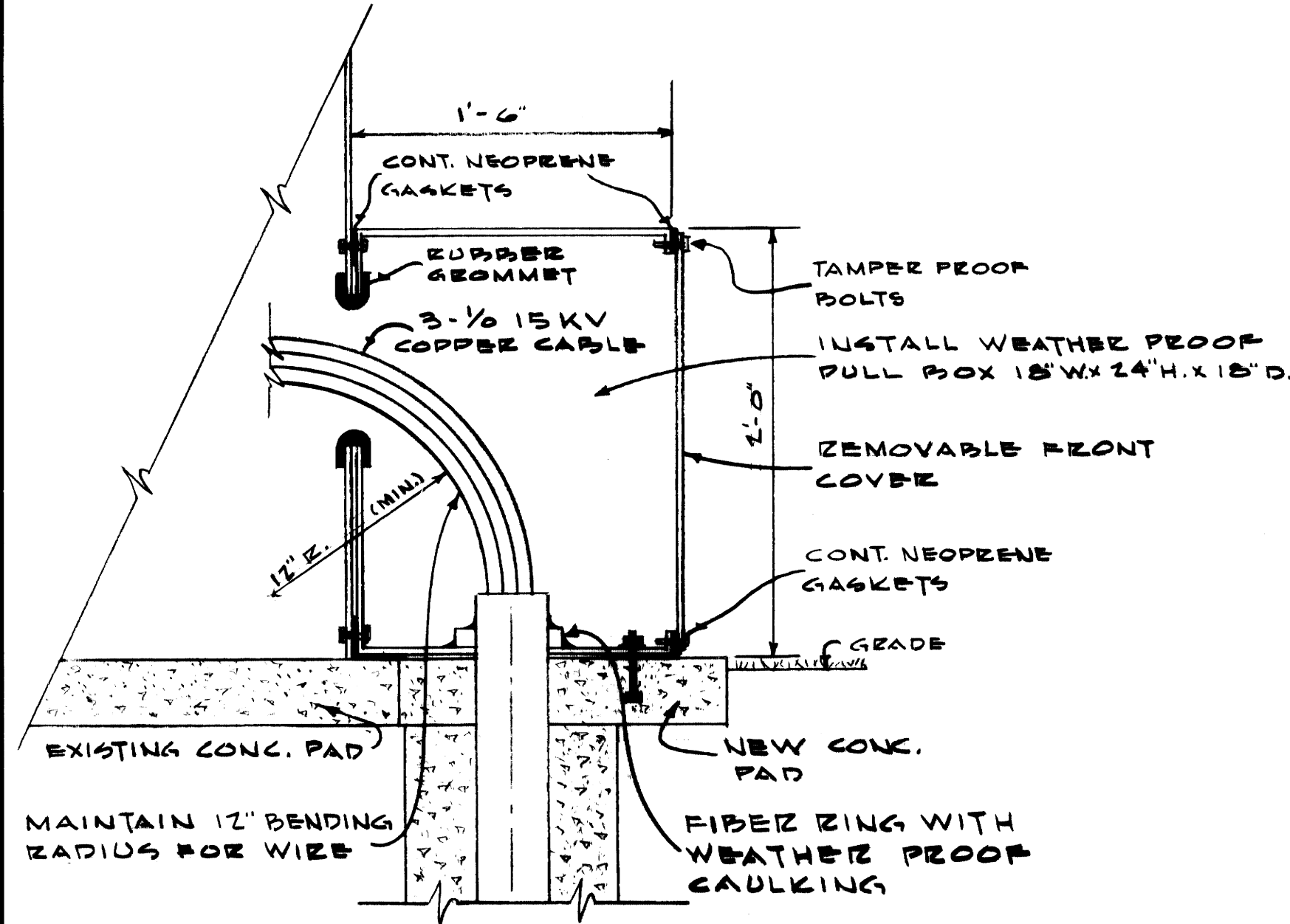




NOTE:  
 1. EXISTING GROUNDING GRID LOCATED IN FOUNDATION AREA OF NEW BOILER ROOM. CONTRACTOR TO REMOVE GRID. TIE TO EXISTING GROUND OF 4 KV SWITCHGEAR AND TO EXISTING GROUND OF 480 SWITCHGEAR SEE DETAIL #3, SHEET E-8.  
 2. REMOVE EXISTING (3) LIGHTING CIRCUITS FROM PANEL BOARD TO A POINT APPROX. 4' FROM BUILDING. INSTALL ONE CKT. OF 3-#2 THW IN 1/2" C. TWO CKT. OF 3-#4 THW EACH IN 1/2" C. ONE SPARE 1/2" C. CONDUCTORS SHALL BE ALUMINUM & CONDUIT SHALL BE P.C. RIGID STEEL. INSTALL A 24" X 24" X 3" INSIDE CONCRETE SPLICE BOX AT LOCATION SHOWN & SPLICE NEW CABLE TO EXISTING CKTS.

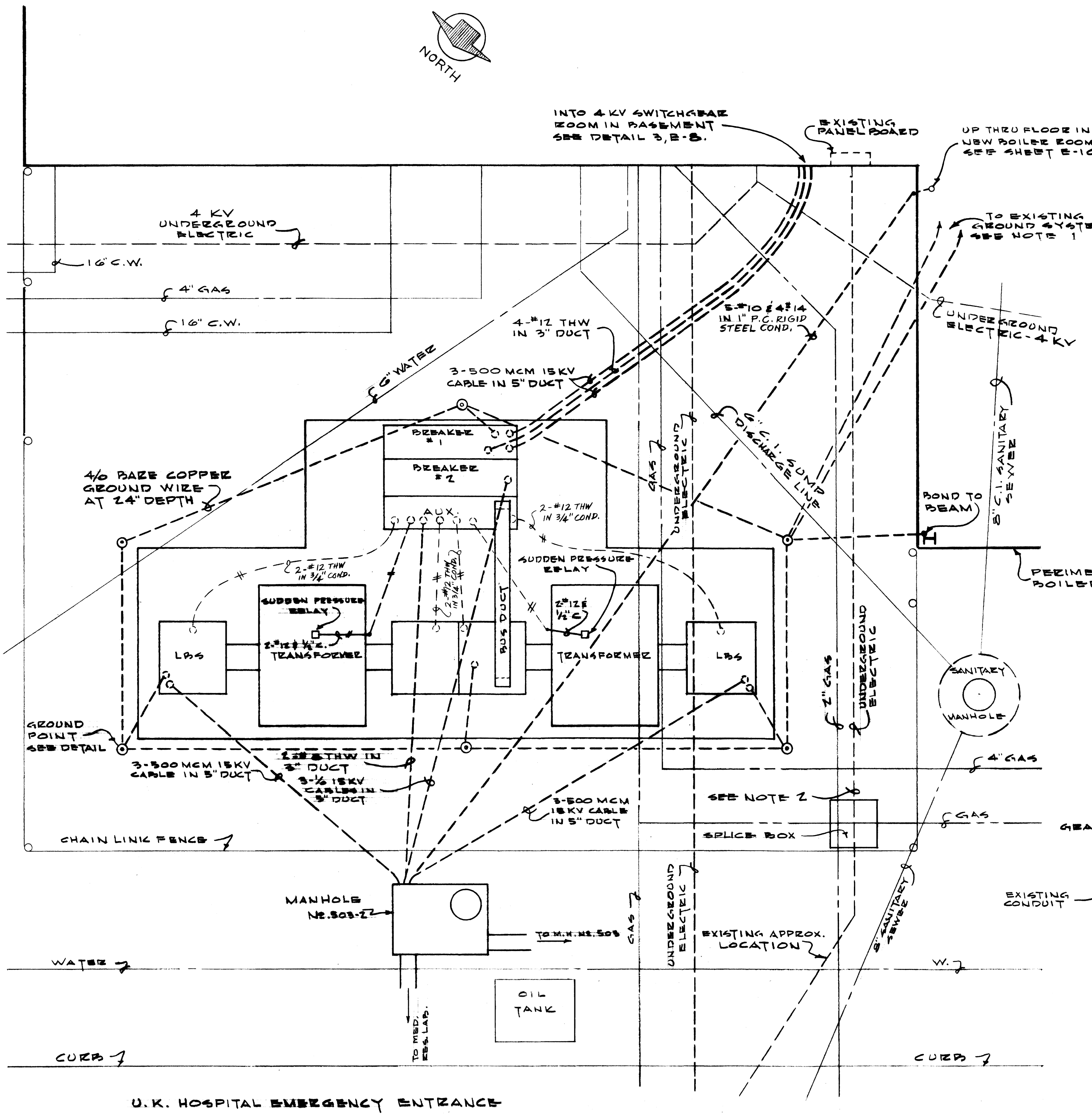


DISCONNECT TRANSFORMER FROM PRESENT FEED. CUT 6" HOLE IN REAR OF H.V. SWITCH SECTION & INSTALL PULL BOX AND CABLE AS SHOWN. CONNECT NEW CABLE TO H.V. SWITCH & GROUND CABLE SHIELD.



SECTION A  
 NOT TO SCALE

MEDICAL RESEARCH CENTER  
 TRANSFORMER DETAILS

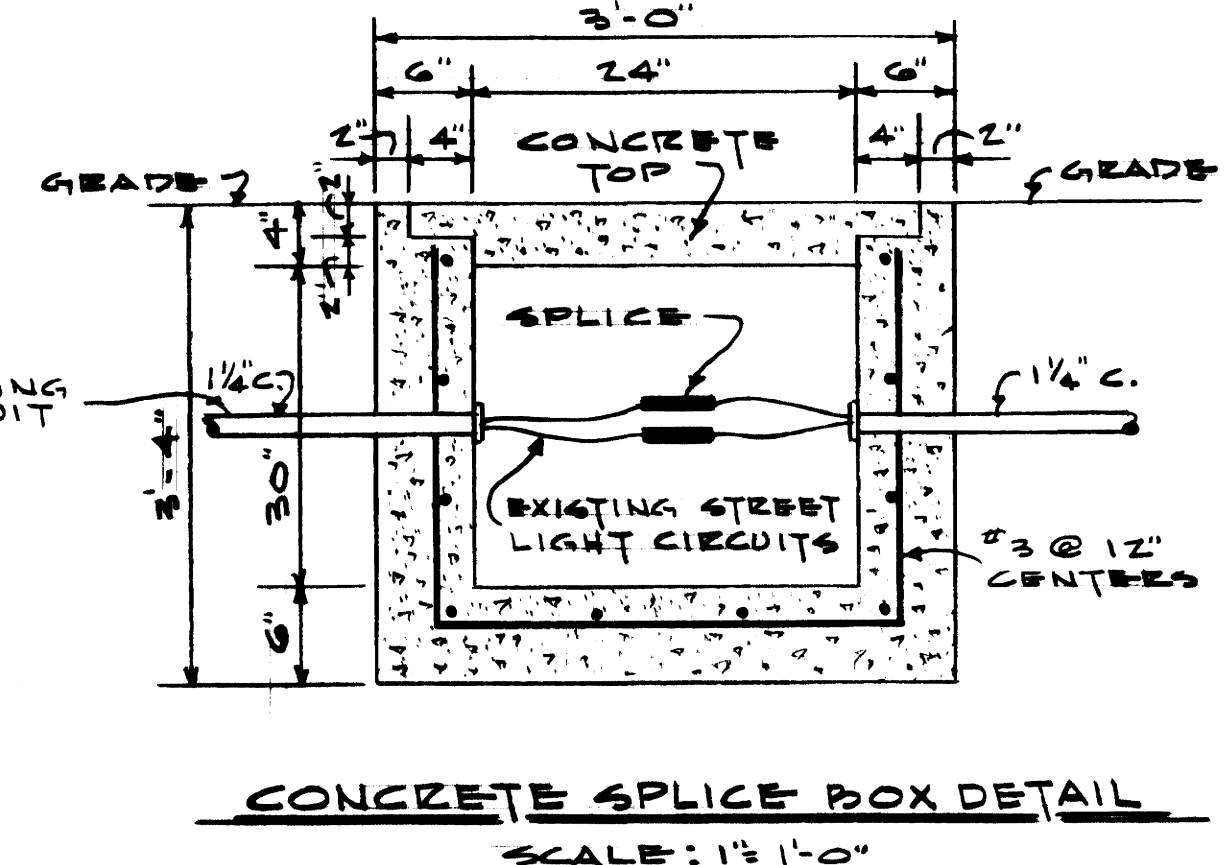


U. K. HOSPITAL EMERGENCY ENTRANCE

NEW SUBSTATION INSTALLATION DETAIL

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

AS-BUILT DRAWING  
 REVISIONS MADE DURING CONSTRUCTION HAVE BEEN INCLUDED ON THIS DRAWING.  
 MASON & HANGER - SILAS MASON CO., INC.  
 BY GES DATE 1-10-72  
 CHANGED CAST IRON CONDUIT TO P.C.  
 RIGID STEEL.  
 ON SUBSTATION DETAIL - ADDED WIRING FROM AUXILIARY COMPARTMENT TO EACH OF 4 SWITCHES (FOR ELECTRIC HEATERS)



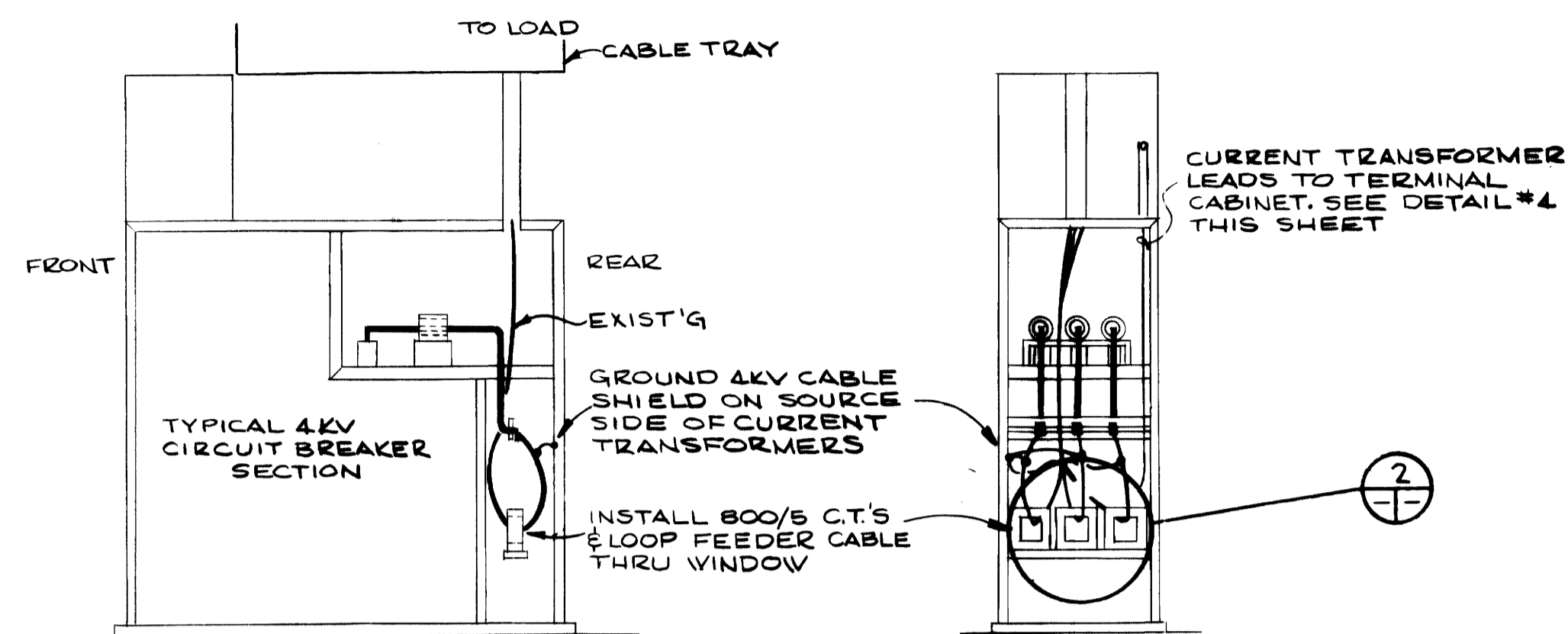
CONCRETE SPLICE BOX DETAIL  
 SCALE: 1 1/2" = 1'-0"



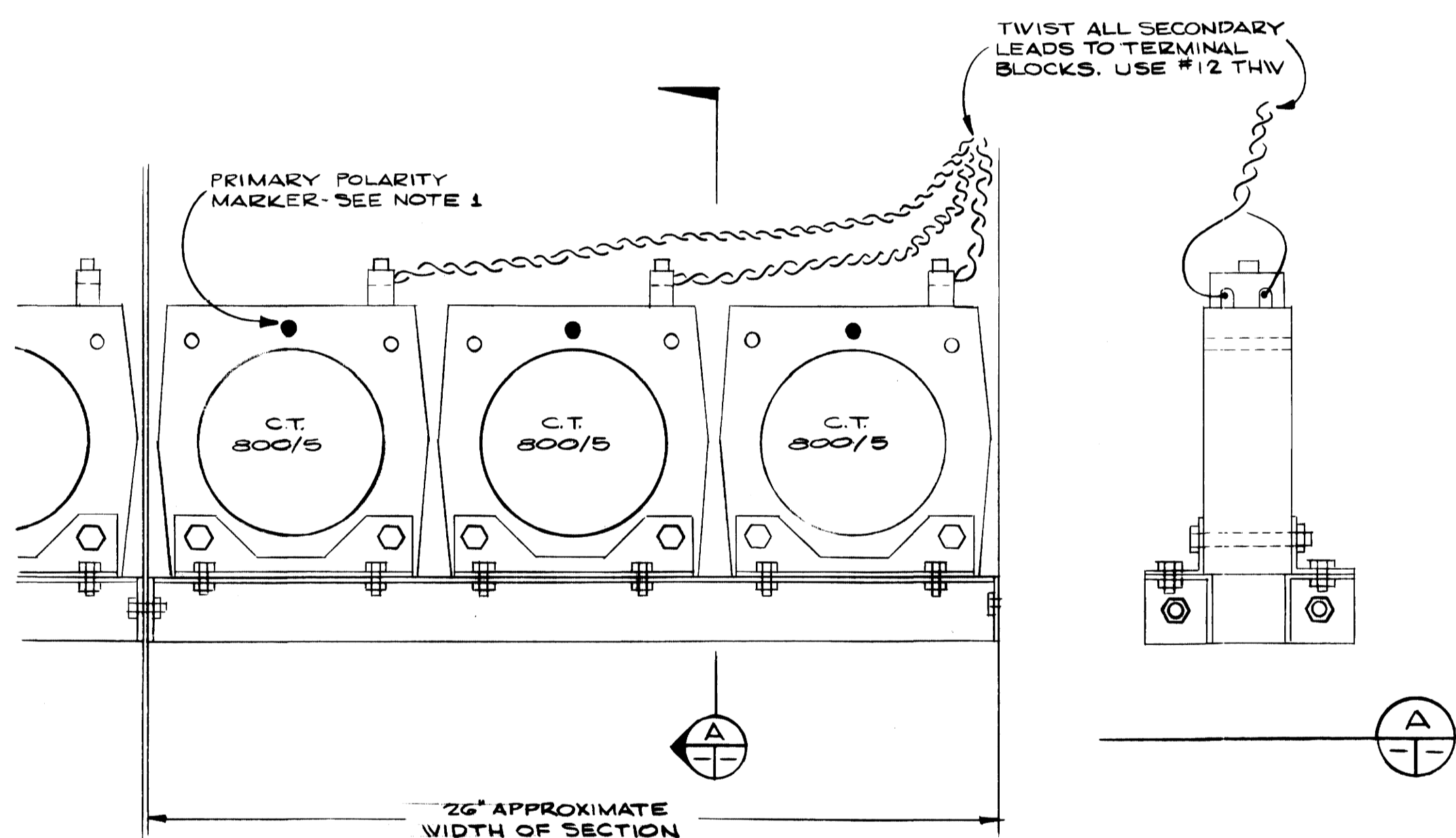
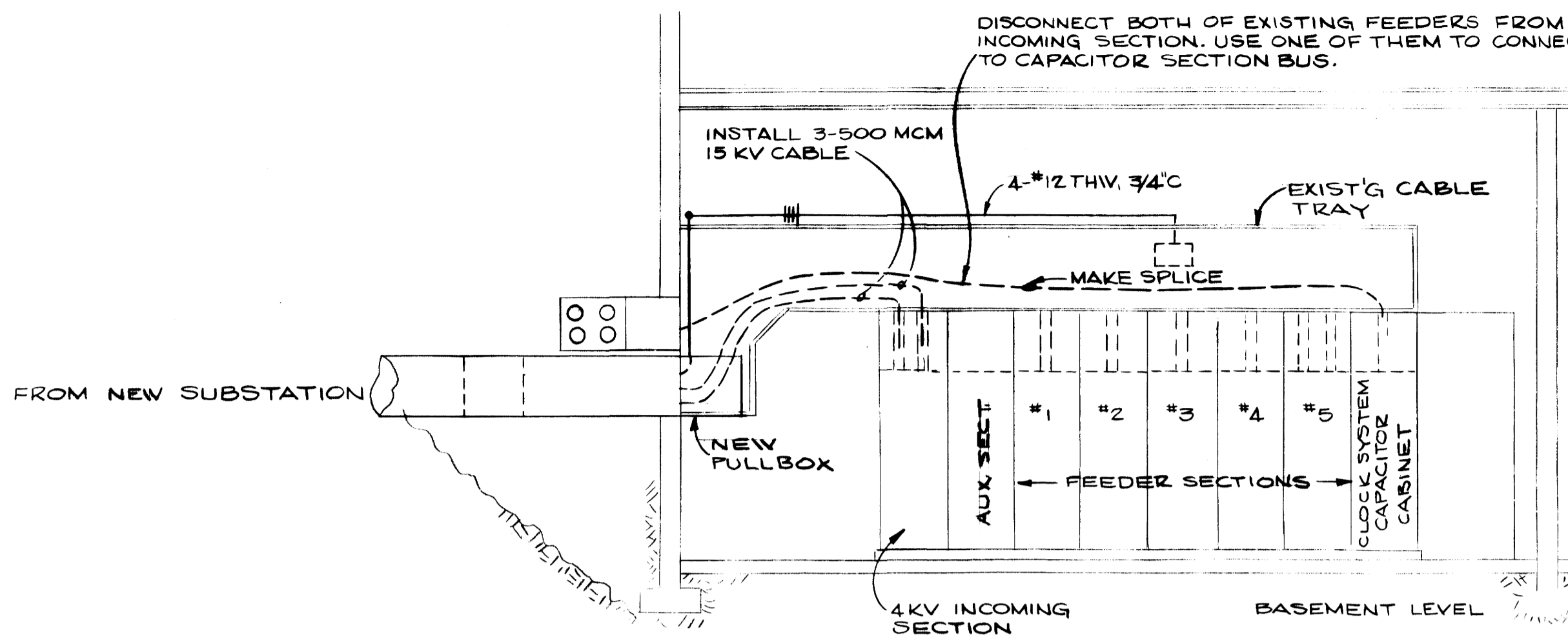
ADDITIONS & RENOVATIONS		
HEATING & COOLING PLANT - A. B. CHANDLER MEDICAL CENTER		
UNIVERSITY OF KENTUCKY LEXINGTON, KENTUCKY		
DRAWN BY P. T. K.	NEW 12 KV TO 4 KV SUBSTATION & DETAILS	DATE E/28/70
TRACED BY P. T. K.	MASON & HANGER-SILAS MASON CO., INC.	SCALE AS SHOWN
CHECKED BY J. W. W.	1500 W. MAIN ST. LEXINGTON, KENTUCKY	SPEC. NO.
COMMONWEALTH OF KENTUCKY		DRAWING NO.
DEPARTMENT OF FINANCE DIVISION OF ENGINEERING		E-7
APPROVED BY: [Signature]		DATE 5-20-70
APPROVED BY: [Signature]		DATE 6-1-70

NOTES

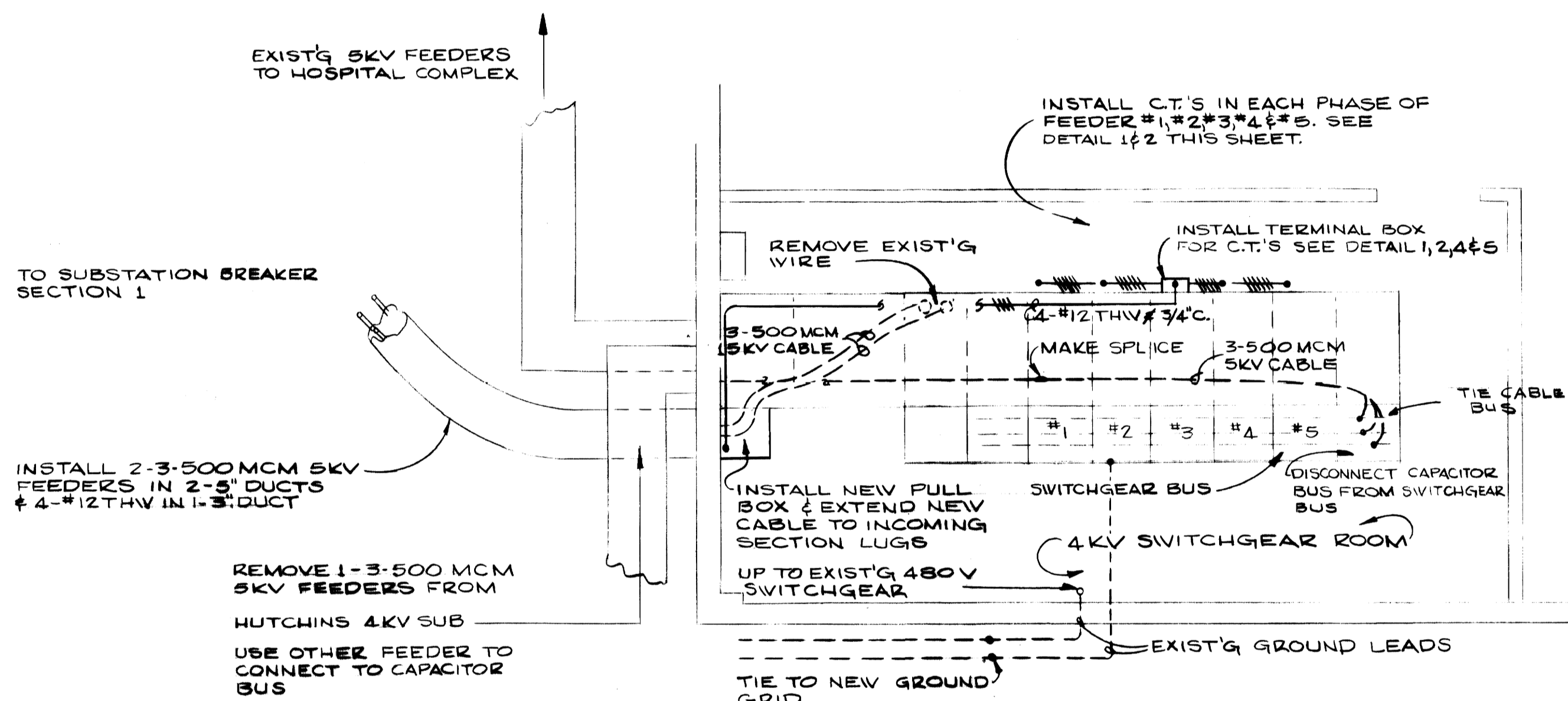
1. PRIMARY POLARITY SHALL MATCH C.T.'S IN NEW MAIN BREAKER #1. CONSULT SHOP DRAWINGS FROM SUBSTATION MANUFACTURER.



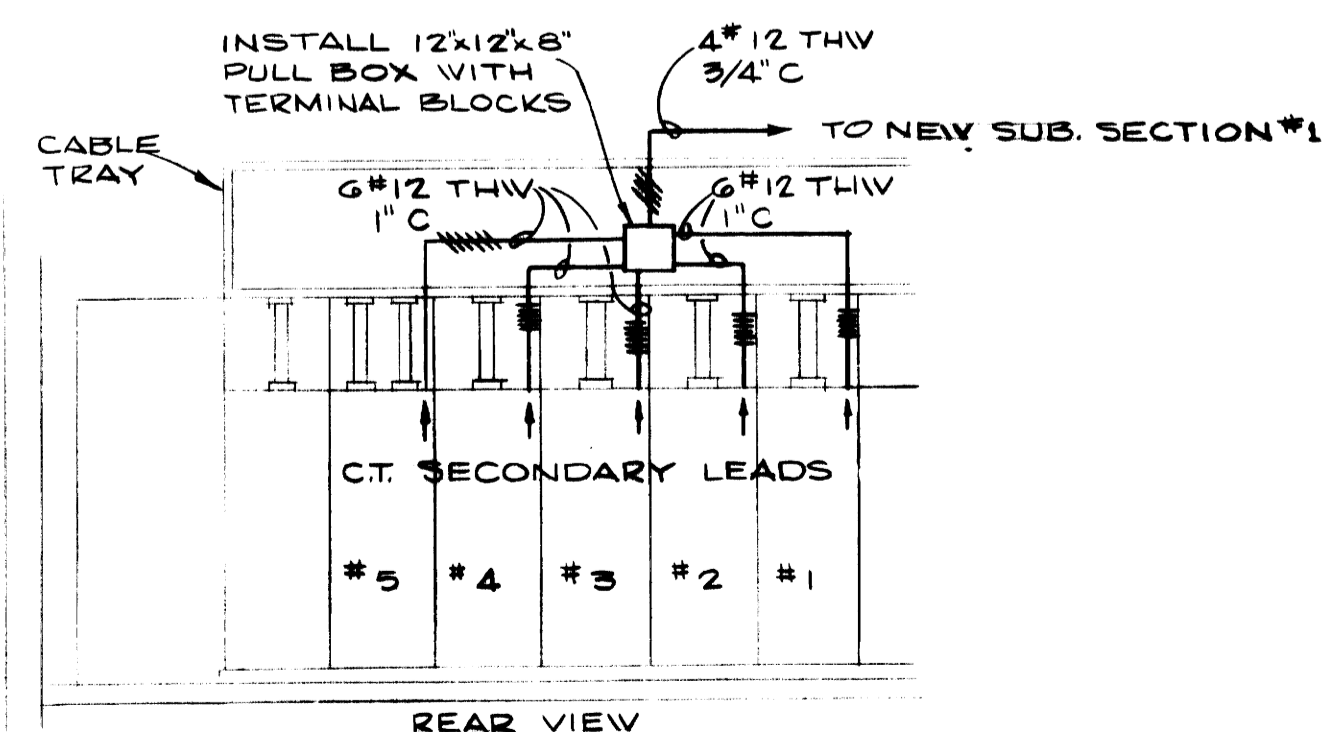
TYPICAL CURRENT TRANSFORMER INSTALLATION  
1/2" = 1'-0"



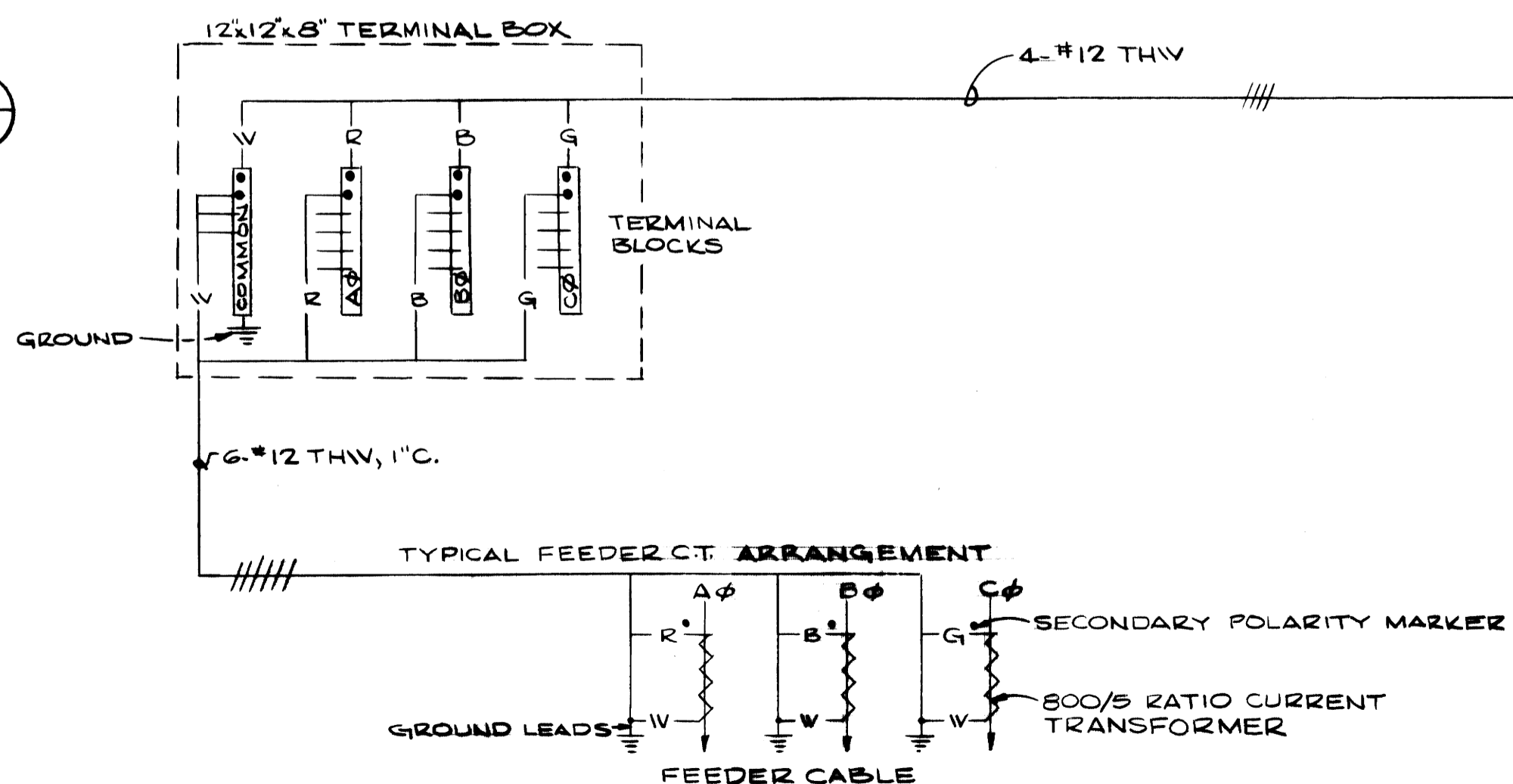
CURRENT TRANSFORMER MOUNTING  
3" = 1'-0"



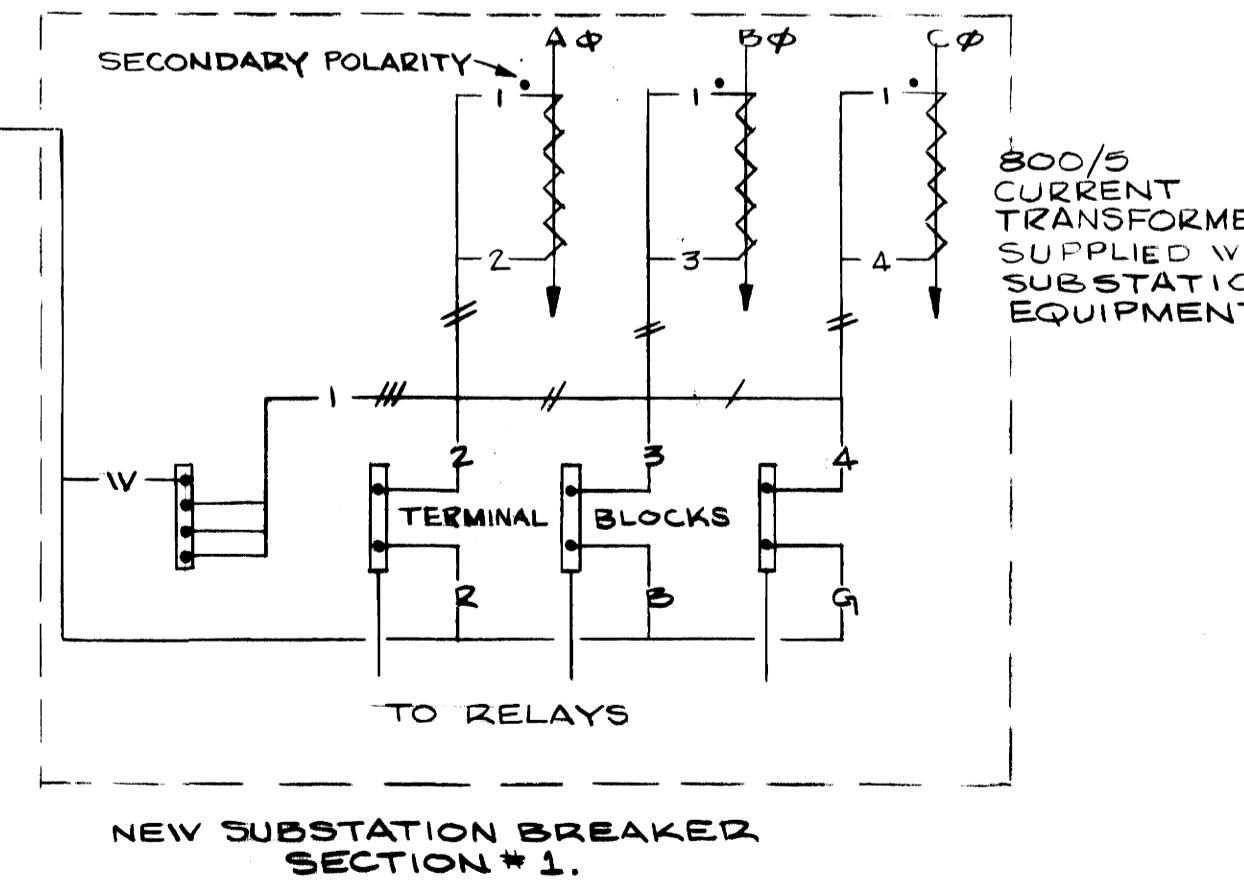
NEW 4KV FEEDER ENTRANCE DETAIL  
SCALE 1/4" = 1'-0"



CURRENT TRANSFORMER TERMINAL BOX  
4

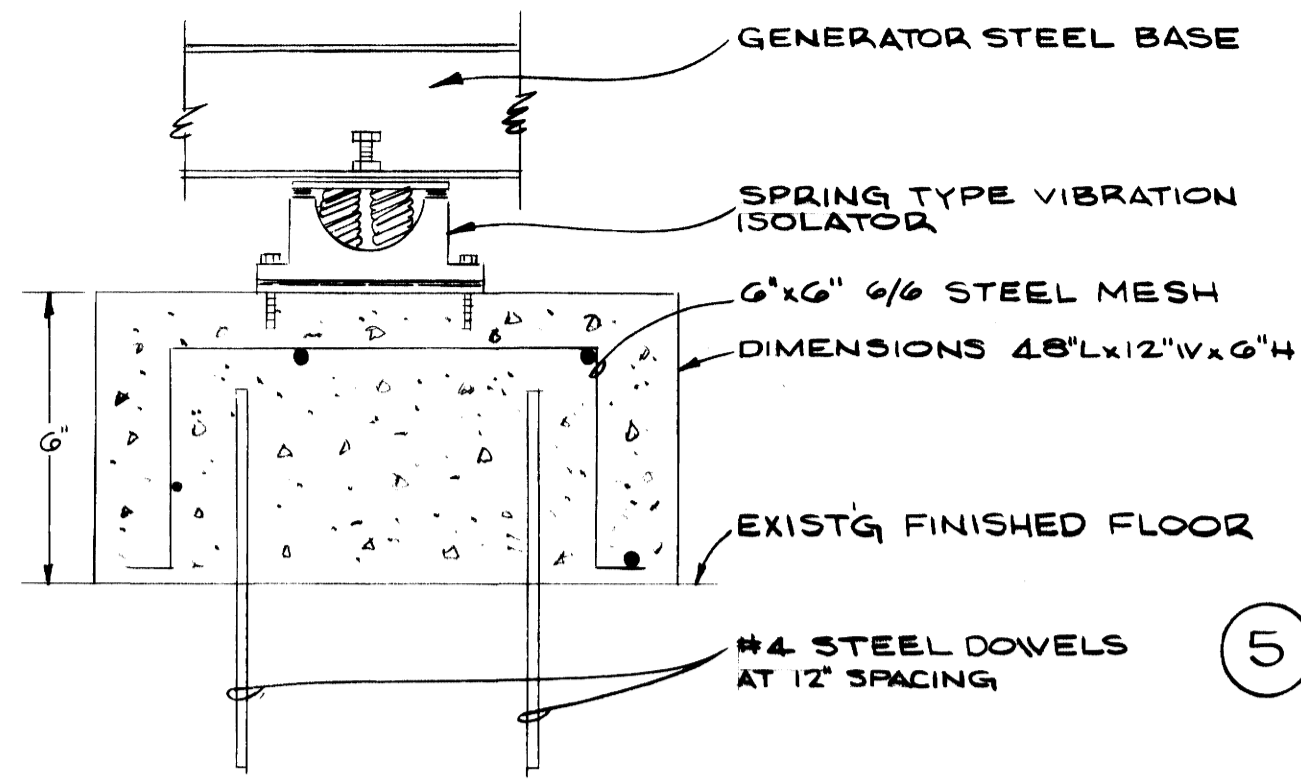


DIFFERENTIAL RELAY C.T. WIRING DIAGRAM  
5

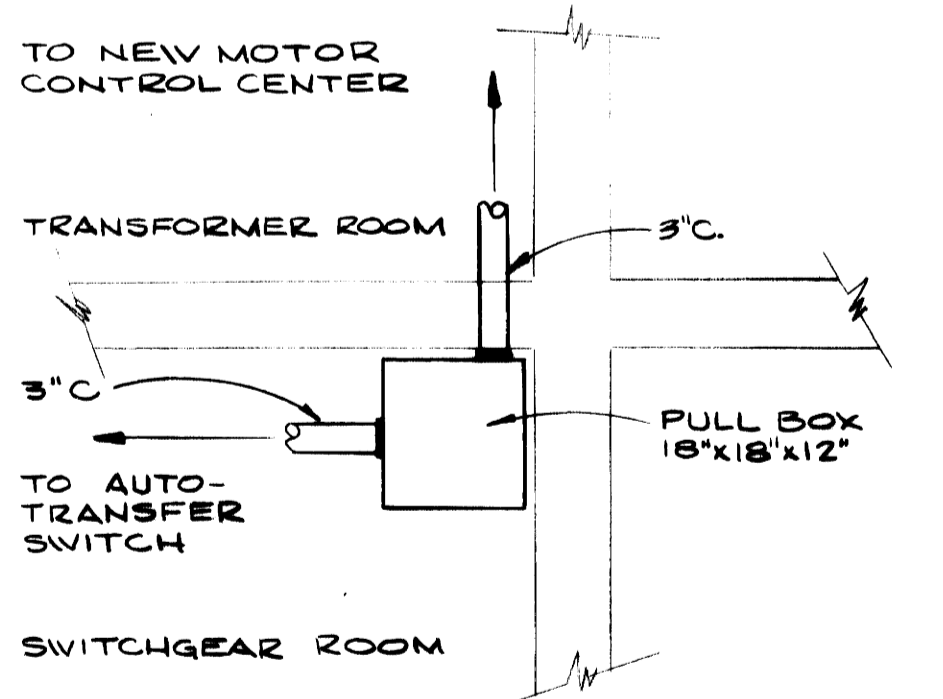
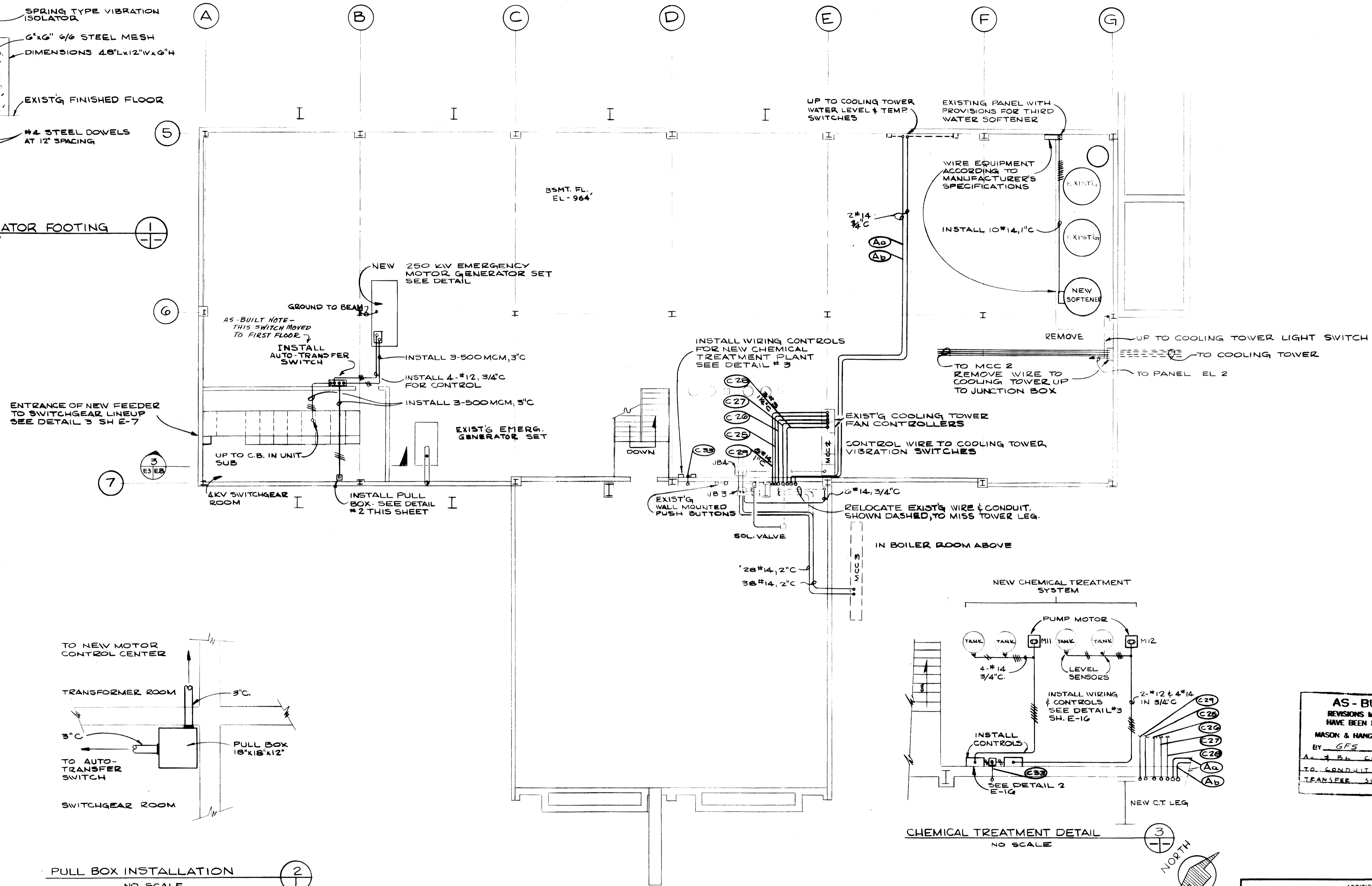


AS-BUILT DRAWING  
REVISIONS MADE DURING CONSTRUCTION HAVE BEEN INCLUDED ON THIS DRAWING  
MASON & HANGER - SILAS MASON CO., INC.  
BY GFS DATE 1-10-72  
NO REVISIONS

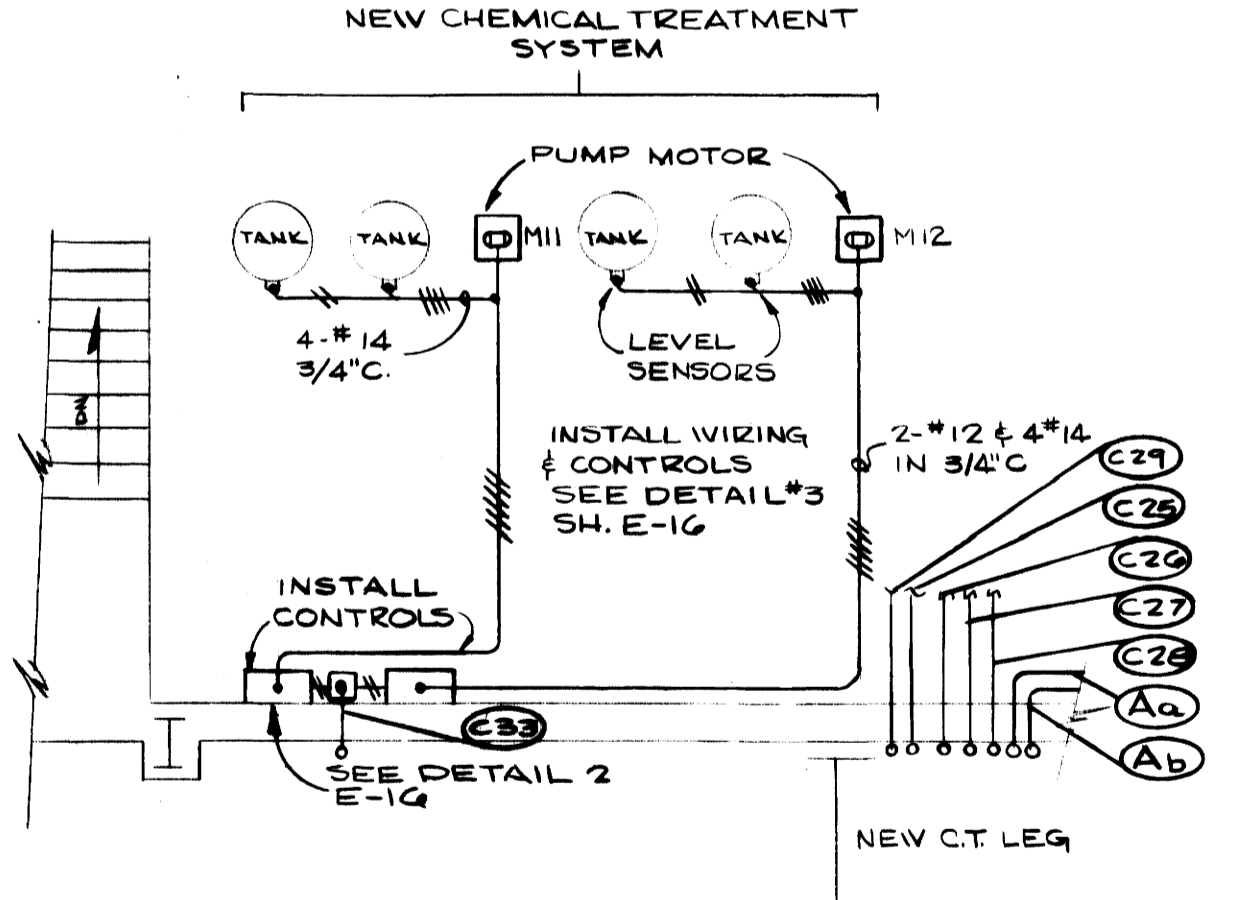
ADDITIONS & RENOVATIONS HEATING & COOLING PLANT - A. B. CHANDLER MEDICAL CENTER UNIVERSITY OF KENTUCKY LEXINGTON, KENTUCKY		
DRAWN BY J.W.W.	MEDICAL CENTER SWITCHGEAR DETAILS	DATE 5/28/70
TRACED BY N.G.	MASON & HANGER-SILAS MASON CO., INC. 1500 W. MAIN ST. LEXINGTON, KENTUCKY	SCALE A4 NOTED SPEC. NO.
CHECKED BY J.W.W.	COMMONWEALTH OF KENTUCKY DEPARTMENT OF FINANCE DIVISION OF ENGINEERING FRANKFORT KENTUCKY	DRAWING NO. E-8
APPROVED BY <i>[Signature]</i>	AGENCY HEAD	DATE 5-28-70
APPROVED BY <i>[Signature]</i>	DIRECTOR, DIVISION OF ENGINEERING	DATE 6-1-70



TYPICAL EMER GENERATOR FOOTING  
 SCALE 3"=1'-0"



PULL BOX INSTALLATION  
 NO SCALE



CHEMICAL TREATMENT DETAIL  
 NO SCALE

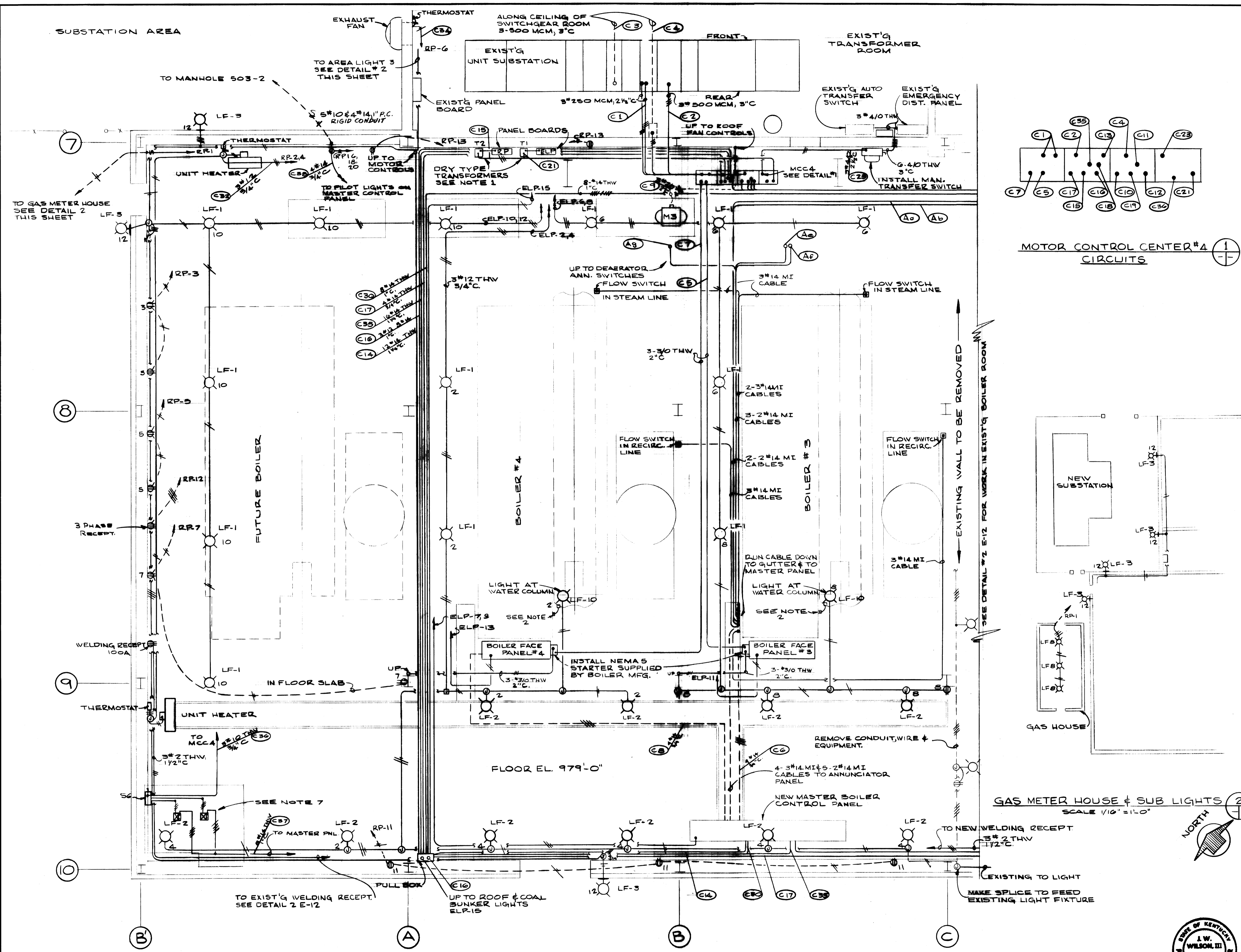
AS-BUILT DRAWING  
 REVISIONS MADE DURING CONSTRUCTION HAVE BEEN INCLUDED ON THIS DRAWING  
 MASON & HANGER - SILAS MASON CO., INC.  
 BY GFS DATE 1-10-72  
 AS-BUILT CHANGED FROM ALL CABLE TO CONDUIT  
 TRANSFER SWITCH RELOCATION NOTED

B A S E M E N T P L A N

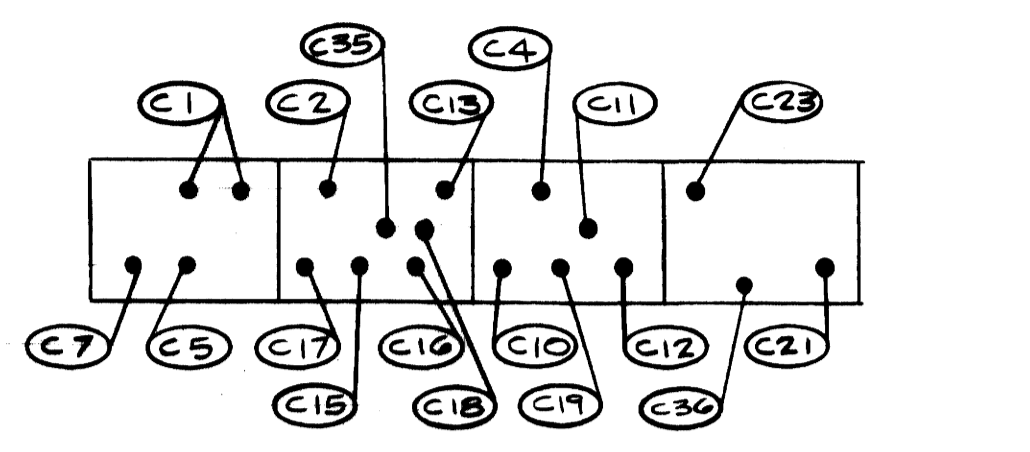
SCALE: 1/8" = 1'-0"



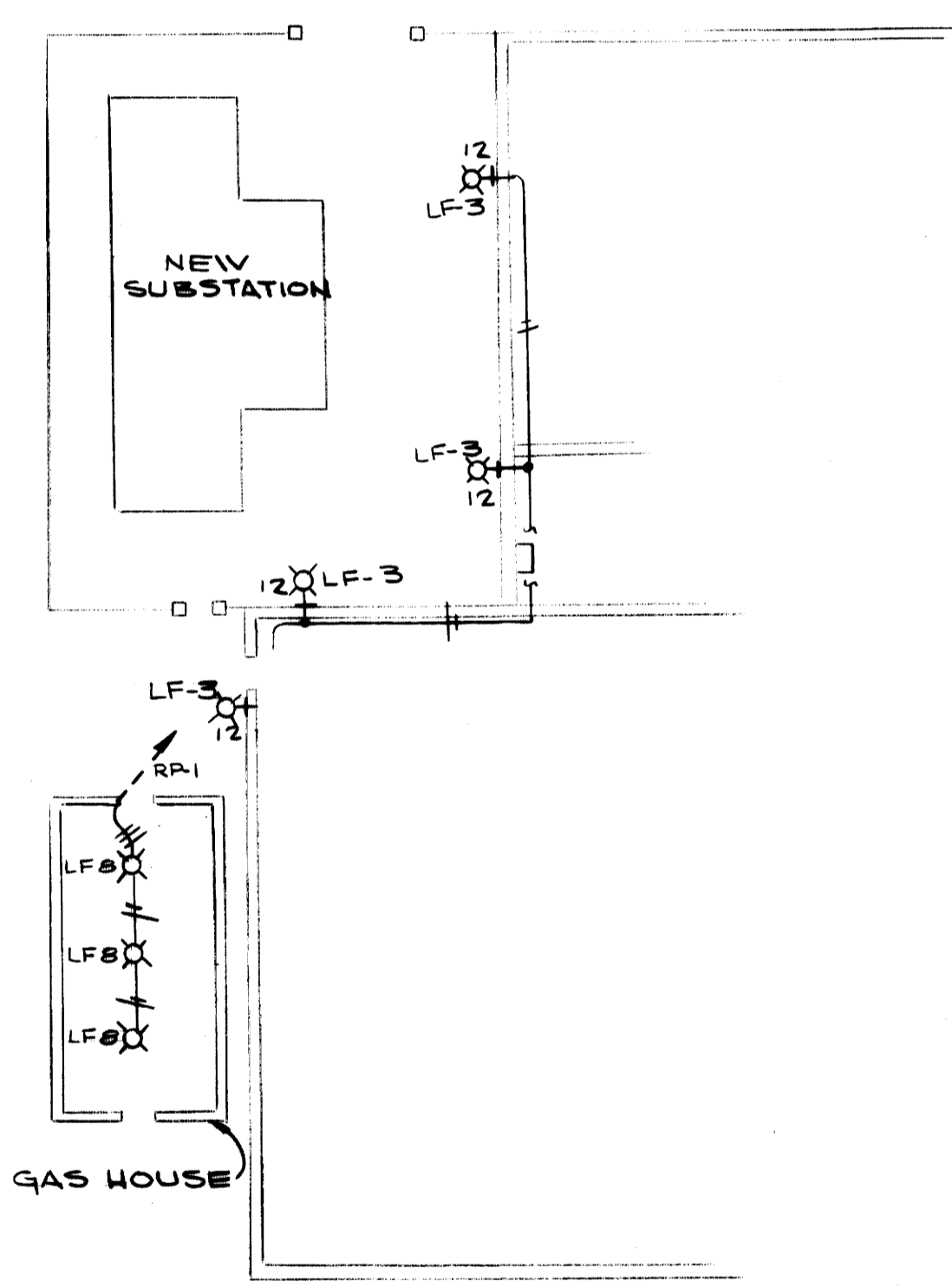
ADDITIONS & RENOVATIONS		
HEATING & COOLING PLANT - A. B. CHANDLER MEDICAL CENTER		
UNIVERSITY OF KENTUCKY		LEXINGTON, KENTUCKY
DRAWN BY T.W.W.	BASEMENT PLAN	DATE 5/28/70
TRACED BY N.G.	MASON & HANGER - SILAS MASON CO., INC. 1500 W. MAIN ST. LEXINGTON, KENTUCKY	SCALE AS NOTED
CHECKED BY T.W.W.	COMMONWEALTH OF KENTUCKY DEPARTMENT OF FINANCE DIVISION OF ENGINEERING FRANKFORT KENTUCKY	SPEC. NO. DRAWING NO. E-9
APPROVED BY	AGENCY HEAD	DATE
APPROVED BY W. McCombs	DIRECTOR, DIVISION OF ENGINEERING	DATE 6-1-70



- NOTES**
1. WALL MOUNTED DRY TYPE (480A-120/208Y) TRANSFORMERS T1 - 30 KW, T2 - 25 KW
  2. MOMENTARY CONTACT SWITCH (SUPPLIED BY BOILER MFG.) TO BE WIRED TO LOW WATER LEVEL ALARM SWITCH ON BOILER WATER COLUMN. USE 2#14 MI CABLE.
  3. MOUNT LIGHT FIXTURES AT ELEVATION TO MATCH EXISTING.
  4. MOUNT ALL RECEP.T. AT 36" ABOVE FLOOR. MOUNT SWITCHES AT 54" ABOVE FLOOR.
  5. MOUNT DOOR LIGHTS / LIGHTS AT NEW TRANSFORMER AT SAME ELEVATION AS EXIST'G.
  6. MINIMUM CONDUIT SIZE SHALL BE 3/4" RIGID
  7. STARTER FOR M17#M18 TO BE SUPPLIED BY FUEL OIL PUMP VENDOR.



MOTOR CONTROL CENTER #4  
CIRCUITS



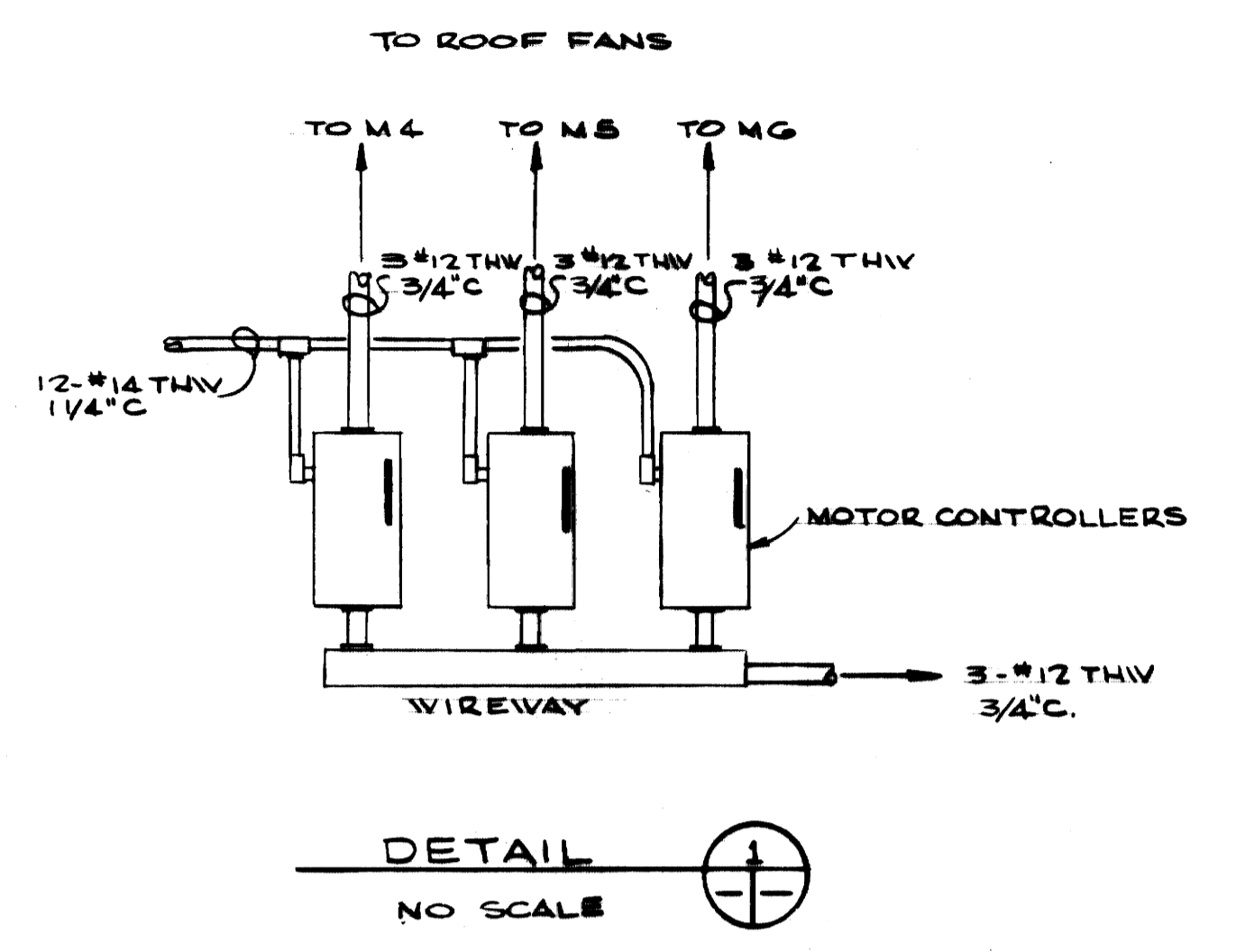
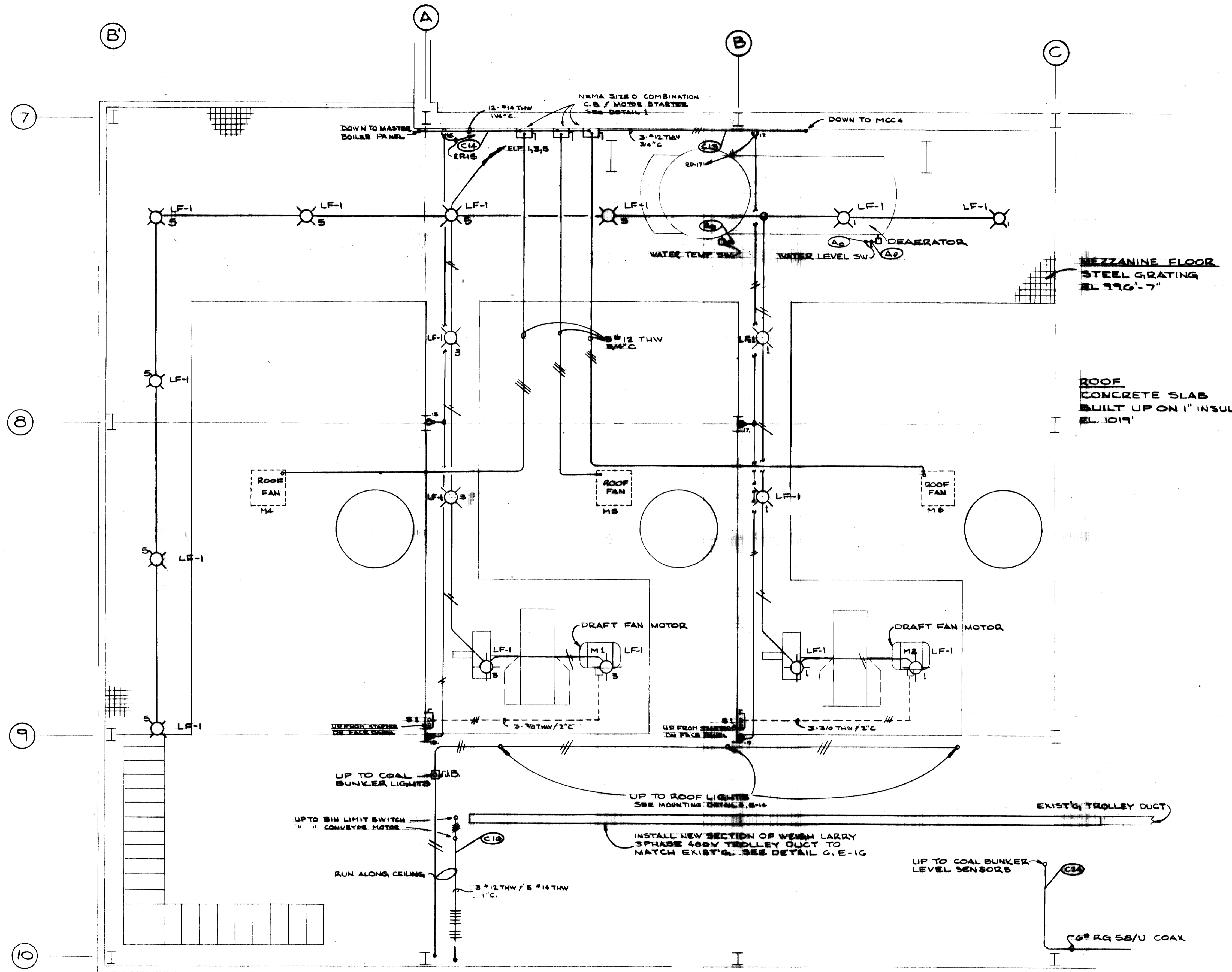
GAS METER HOUSE & SUB LIGHTS  
SCALE 1/16" = 1'-0"

**AS-BUILT DRAWING**  
 REVISIONS MADE DURING CONSTRUCTION  
 HAVE BEEN INCLUDED ON THIS DRAWING.  
 MASON & HANGER - SILAS MASON CO., INC.  
 BY G.E.S. DATE 1-10-72  
 CHANGED CONDUIT TO MH 503-2  
 FROM C.I. TO P.S. RIGID STEEL

FIRST FLOOR PLAN  
 SCALE 1/4" = 1'-0"

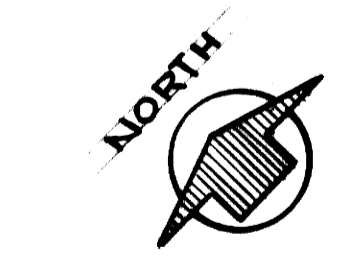
ADDITIONS & RENOVATIONS		
HEATING & COOLING PLANT - A. B. CHANDLER MEDICAL CENTER		
UNIVERSITY OF KENTUCKY LEXINGTON, KENTUCKY		
DRAWN BY M.P.	NEW ADDITION FIRST FLOOR PLAN	DATE 5/28/70
TRACED BY N.Q.	MASON & HANGER-SILAS MASON CO., INC. 1500 W. MAIN ST. LEXINGTON, KENTUCKY	SCALE AS NOTED
CHECKED BY J.W.W.	COMMONWEALTH OF KENTUCKY DEPARTMENT OF FINANCE DIVISION OF ENGINEERING FRANKFORT KENTUCKY	SPEC. NO. DRAWING NO. E-10
APPROVED BY <i>[Signature]</i>	AGENCY HEAD	DATE 5-28-70
APPROVED BY <i>[Signature]</i>	DIRECTOR, DIVISION OF ENGINEERING	DATE 6-1-70



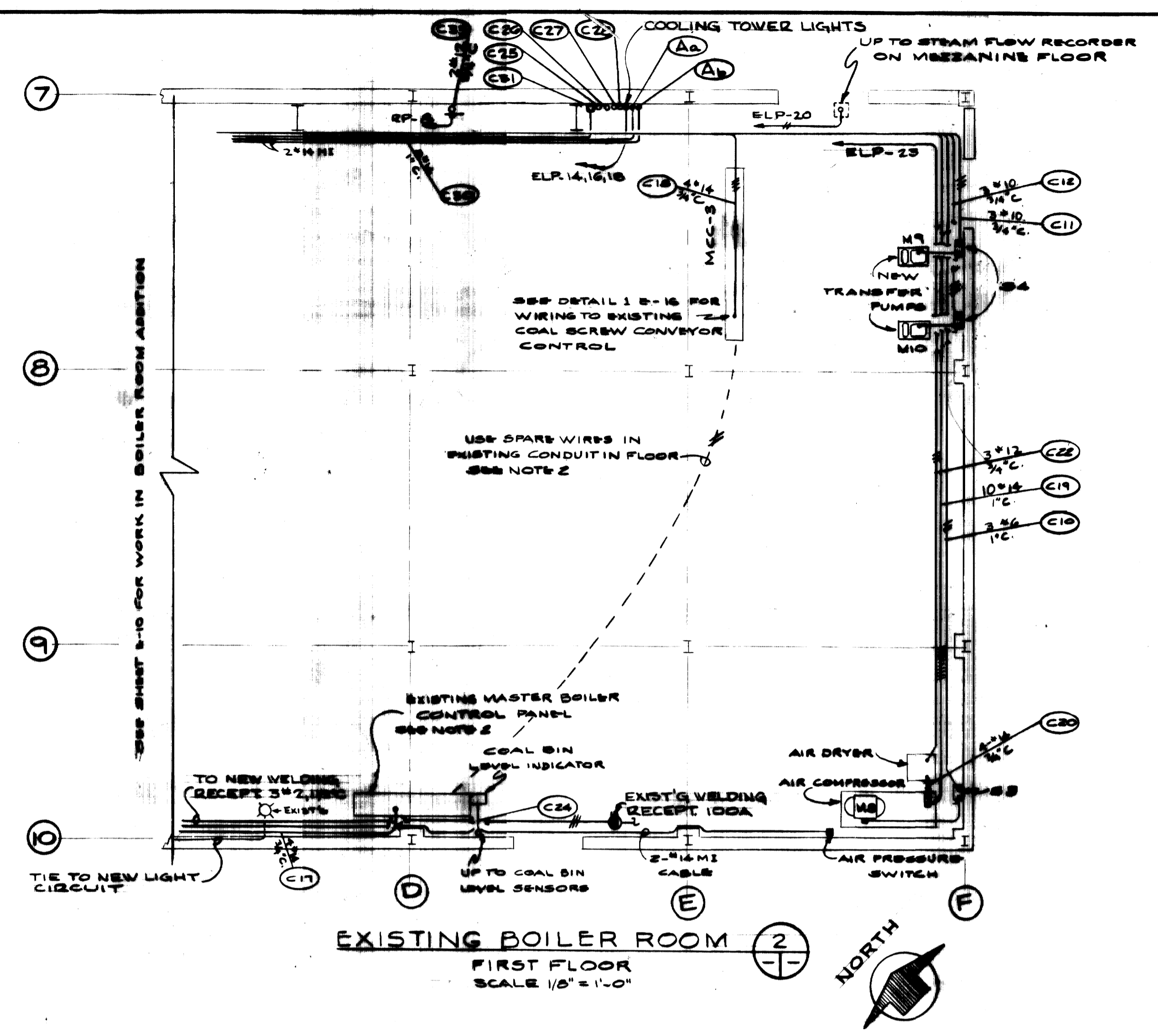
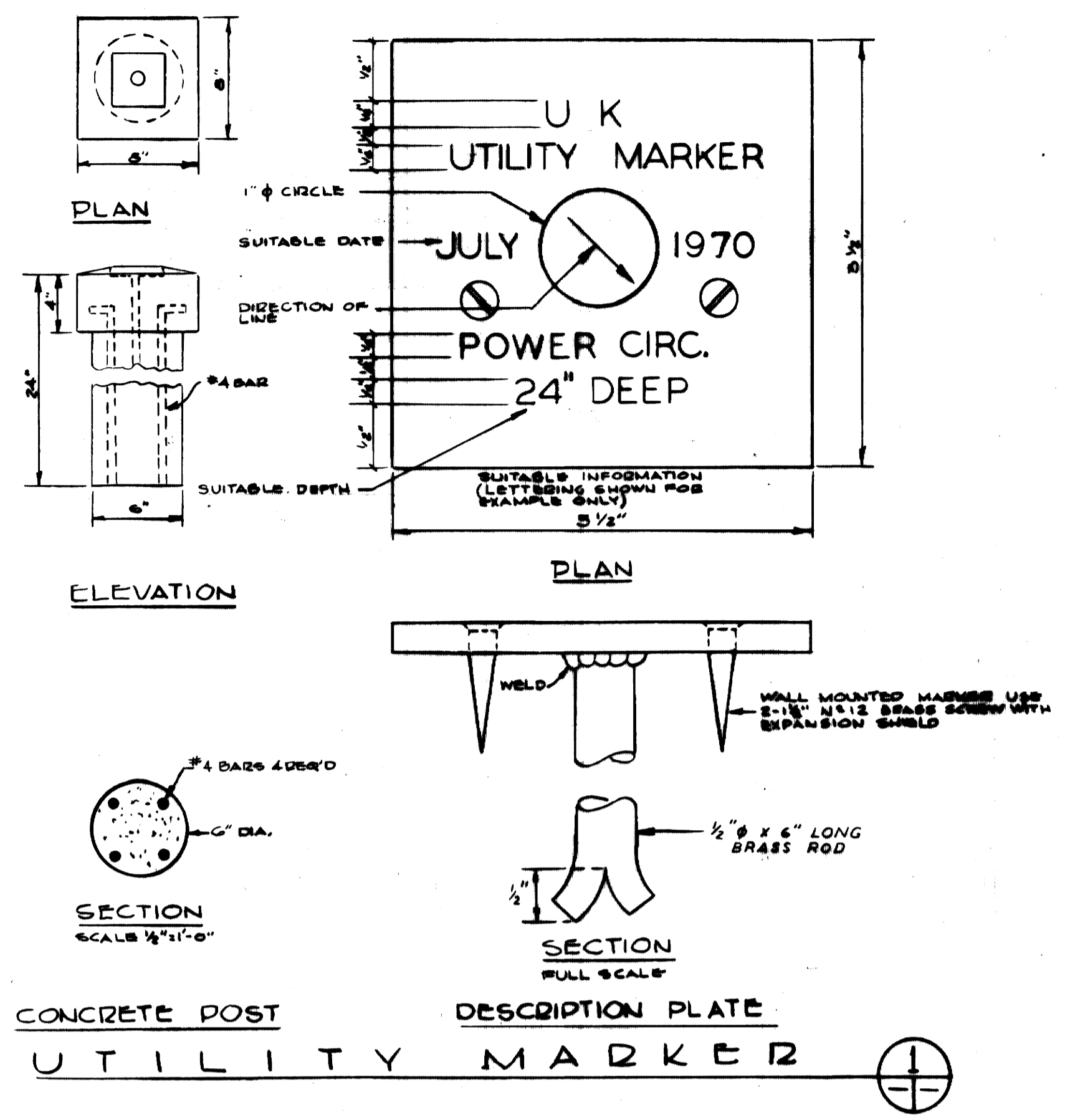


AS - BUILT DRAWING  
 REVISIONS MADE DURING CONSTRUCTION  
 HAVE BEEN INCLUDED ON THIS DRAWING  
 MASON & HANGER - SILAS MASON CO., INC.  
 BY GFS DATE 1-10-72  
 NO REVISIONS

MEZZANINE FLOOR PLAN  
 SCALE 1/4" = 1'-0"



ADDITIONS & RENOVATIONS		
HEATING & COOLING PLAN - A. B. CHANDLER MEDICAL CENTER UNIVERSITY OF KENTUCKY LEXINGTON, KENTUCKY		
DRAWN BY M.P.	NEW ADDITION MEZZANINE FLOOR PLAN	DATE 5/28/70
TRACED BY J.E.G.	MASON & HANGER - SILAS MASON CO., INC. 1800 W. MAIN ST. LEXINGTON, KENTUCKY	SCALE AS NOTED
CHECKED BY J.W.W.	COMMONWEALTH OF KENTUCKY DEPARTMENT OF FINANCE DIVISION OF ENGINEERING FRANKFORT, KENTUCKY	SPEC. NO. DRAWING NO. E-11
APPROVED BY <i>C.J. Marshall</i> AGENCY HEAD		DATE 5-28-70
APPROVED BY <i>W.T. McConnel</i> DIRECTOR, DIVISION OF ENGINEERING		DATE 6-1-70



NOTE

1. INSTALL NEW TWO POSITION SELECTOR SWITCH & RED PILOT LIGHT ON EXISTING MASTER BOILER CONTROL PANEL FOR NEW & EXISTING COAL SCREW CONVEYOR CONTROL SEE DETAIL 1 E-16 FOR WIRING

2. SPARE WIRES TO BE USED TO WIRE ONE CONTACT SET OF NEW SELECTOR SWITCH INTO EXISTING SCREW CONVEYOR CONTROLS IN MCC3 SEE DETAIL 1 E-16

**PANEL RP**

120/208V, 3Ø, 4 WIRE, 3/4" SN SURFACE MOUNTED 100 AMP MAIN BREAKER

POLE NO.	CIRCUIT	AMP TRIP	WIRE & COND.	LOAD SERVED	LOAD - WATTS			WIRE & COND.	LOAD SERVED	
					A	B	C			
1	1	20	2 #12 THW 3/4" C.	GAS METER HOUSE LIGHTS	300			2 #12 THW 3/4" C.	UNIT HEATER 1	
3	3	20		RECEPTS	1800			2 #12 THW 3/4" C.	UNIT HEATER 2	
5	5	20			1800	1200		2 #12 THW 3/4" C.	TRANSFORMER RM	
7	7	20			1400			2 #12 THW 3/4" C.	CHEMICAL TREAT PUMPS	
9	9	20			1800	1800		2 #12 THW 3/4" C.		
11	11	20			1800	1800		2 #12 THW 3/4" C.	3 PHASE RECEPT	
13	13	20			1800	1800		2 #12 THW 3/4" C.		
15	15	20			1800	1800		2 #12 THW 3/4" C.	MAIN HOLE POWER	
17	17	20			300			2 #12 THW 3/4" C.	PUMP PUMP MH	
19	19	20		SPARE	475			2 #12 THW 3/4" C.	PUMP PUMP MH	
21	21	20		SPARE				2 #12 THW 3/4" C.	SPARE	
TOTAL					10,375	12,300	8,875			

CONNECTED 31.88 KW LOAD FACTOR 55% FUTURE DEMAND 17 KW

**PANEL ELP**

120/208V, 3Ø, 4 WIRE, 3/4" SN SURFACE MOUNTED 100 AMP MAIN BREAKER

POLE NO.	CIRCUIT	AMP TRIP	WIRE & COND.	LOAD SERVED	LOAD - WATTS			WIRE & COND.	LOAD SERVED	
					A	B	C			
1	1	20		CEILING LIGHTS	1800			2 #12 THW 3/4" C.	CEILING LIGHTS FIRST FLOOR	
3	3	20			1500			2 #12 THW 3/4" C.		
5	5	20			1800	1800		2 #12 THW 3/4" C.		
7	7	20			1000			2 #12 THW 3/4" C.		
9	9	20			1800			2 #12 THW 3/4" C.		
11	11	20			1800	1800		2 #12 THW 3/4" C.	OUTSIDE LIGHTS	
13	13	20			1000	700		2 #12 THW 3/4" C.	COOLING TOWER	
15	15	20			1800	1800		2 #12 THW 3/4" C.	COOLING TOWER	
17	17	20			1800	1800		2 #12 THW 3/4" C.	COOLING TOWER	
19	19	20			1800	1800		2 #12 THW 3/4" C.	COOLING TOWER	
21	21	20		SPARE				2 #12 THW 3/4" C.	SPARE	
23	23	20	3	AIR DRYER	450			2 #12 THW 3/4" C.		
25	25	20			1800			2 #12 THW 3/4" C.		
TOTAL					13,250	11,580	10,380			

CONNECTED 34.75 KW LOAD FACTOR 56% FUTURE DEMAND 30 KW

AS-BUILT DRAWING

REVISIONS MADE DURING CONSTRUCTION HAVE BEEN INCLUDED ON THIS DRAWING

MASON & HANGER - SILAS MASON CO., INC.

1500 W. MAIN ST. LEXINGTON, KENTUCKY

BY GFS DATE 1-10-72

CHANGED WIRE SIZE TO #12 & #10 ON DETAIL 2

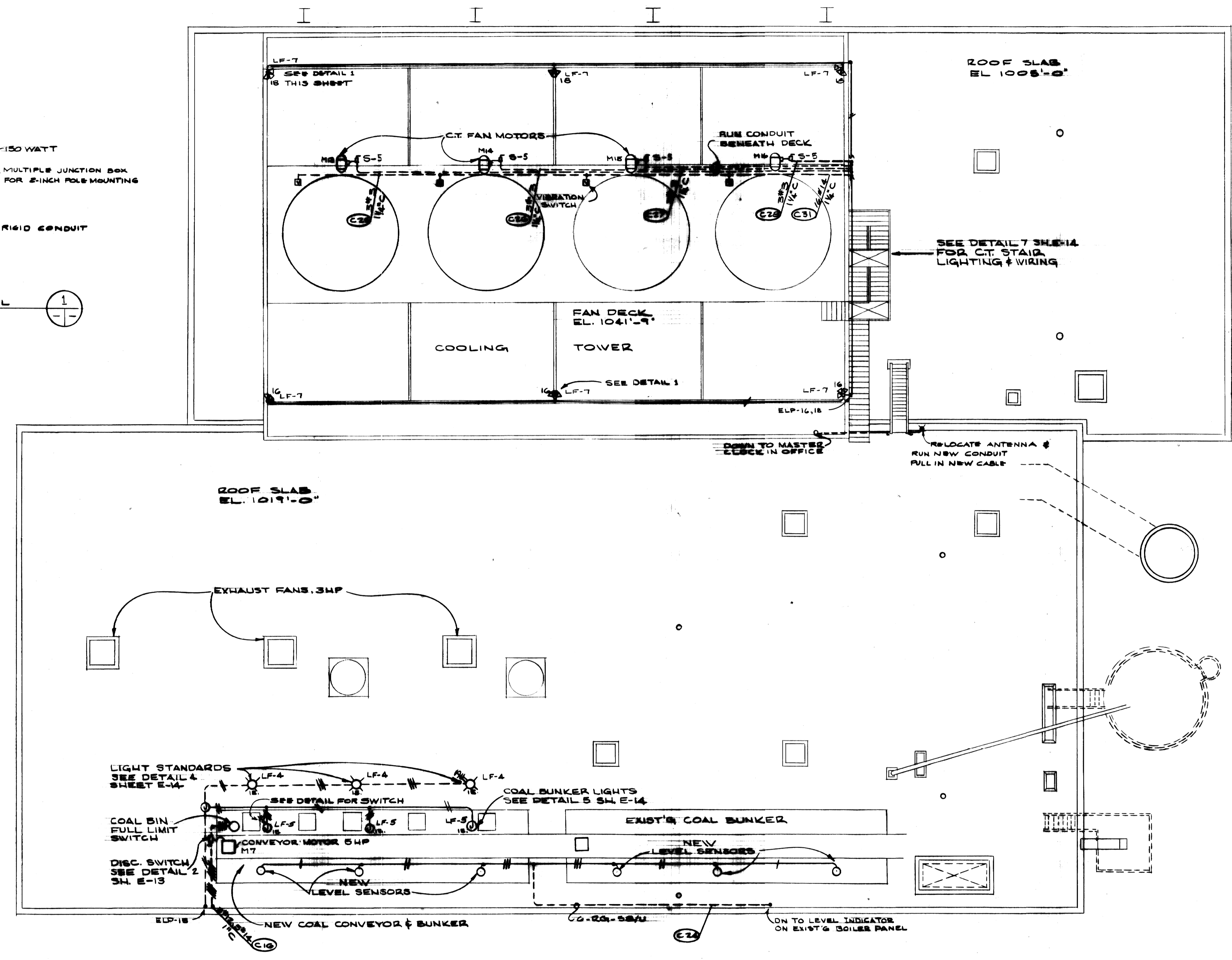
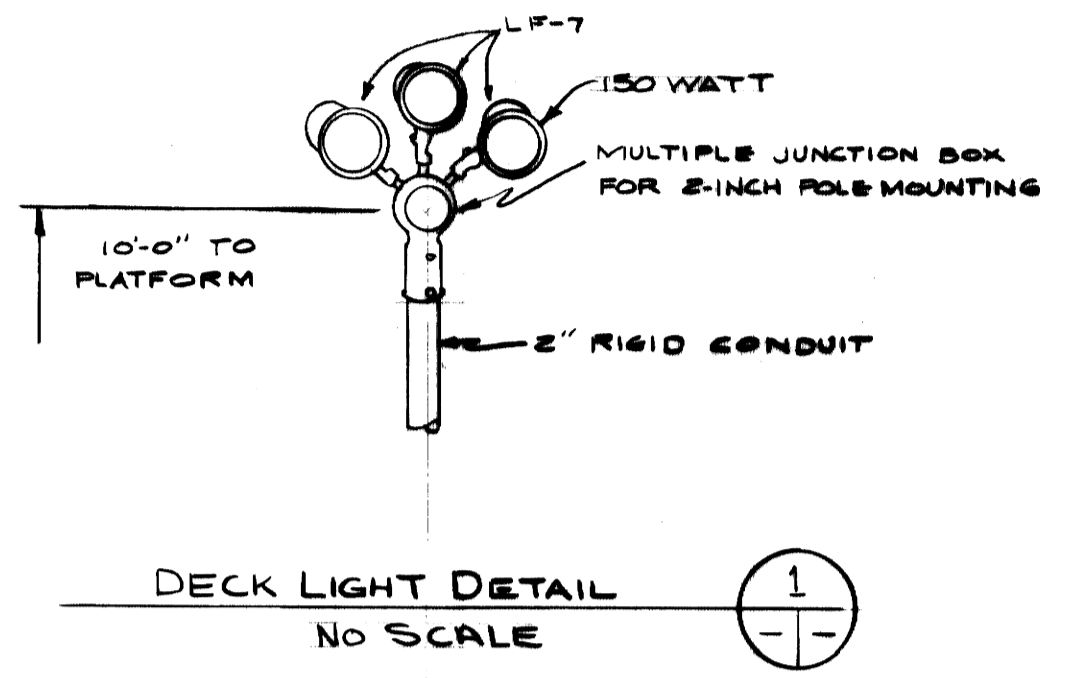
ADDITIONS & RENOVATIONS

HEATING & COOLING PLANT - A. B. CHANDLER MEDICAL CENTER

UNIVERSITY OF KENTUCKY LEXINGTON, KENTUCKY

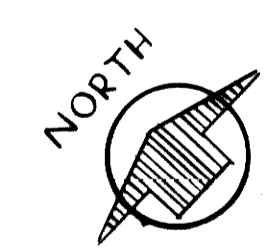
DRAWN BY	EXISTING BOILER ROOM & DETAILS	DATE	5/28/70
TRACED BY	MASON & HANGER - SILAS MASON CO., INC.	SCALE	AS NOTED
CHECKED BY	1500 W. MAIN ST. LEXINGTON, KENTUCKY	SPEC. NO.	
	COMMONWEALTH OF KENTUCKY	DRAWING NO.	E-12
	DEPARTMENT OF FINANCE		
	DIVISION OF ENGINEERING		
	FRANKFORT, KENTUCKY		
APPROVED BY	<i>J. Marshall</i>	DATE	5-28-70
	AGENCY HEAD		
APPROVED BY	<i>W. J. McConnell</i>	DATE	6-1-70
	DIRECTOR, DIVISION OF ENGINEERING		



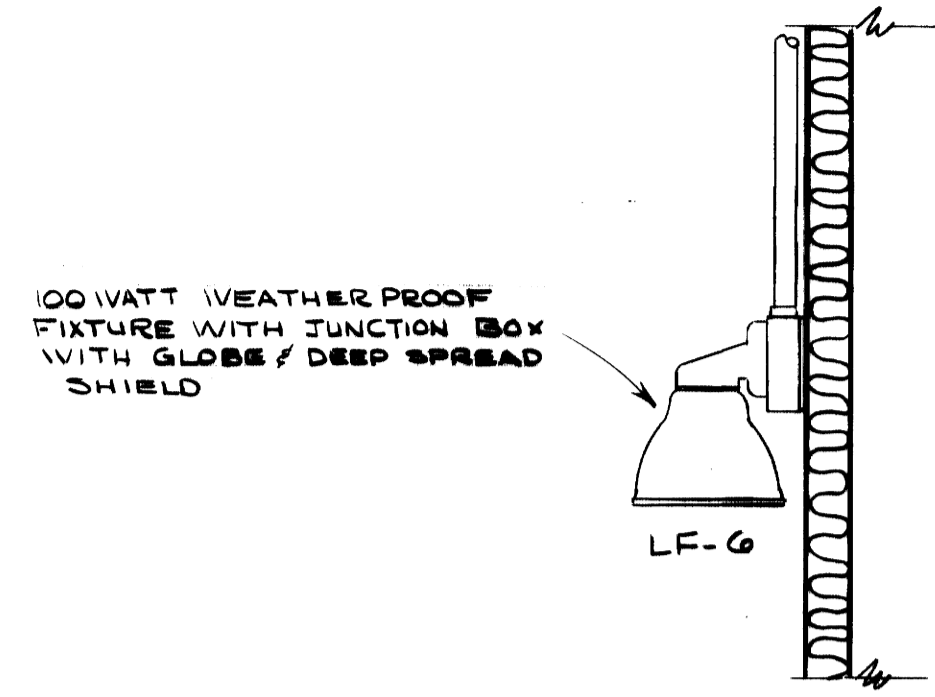


R O O F P L A N  
SCALE: 1/8" = 1'-0"

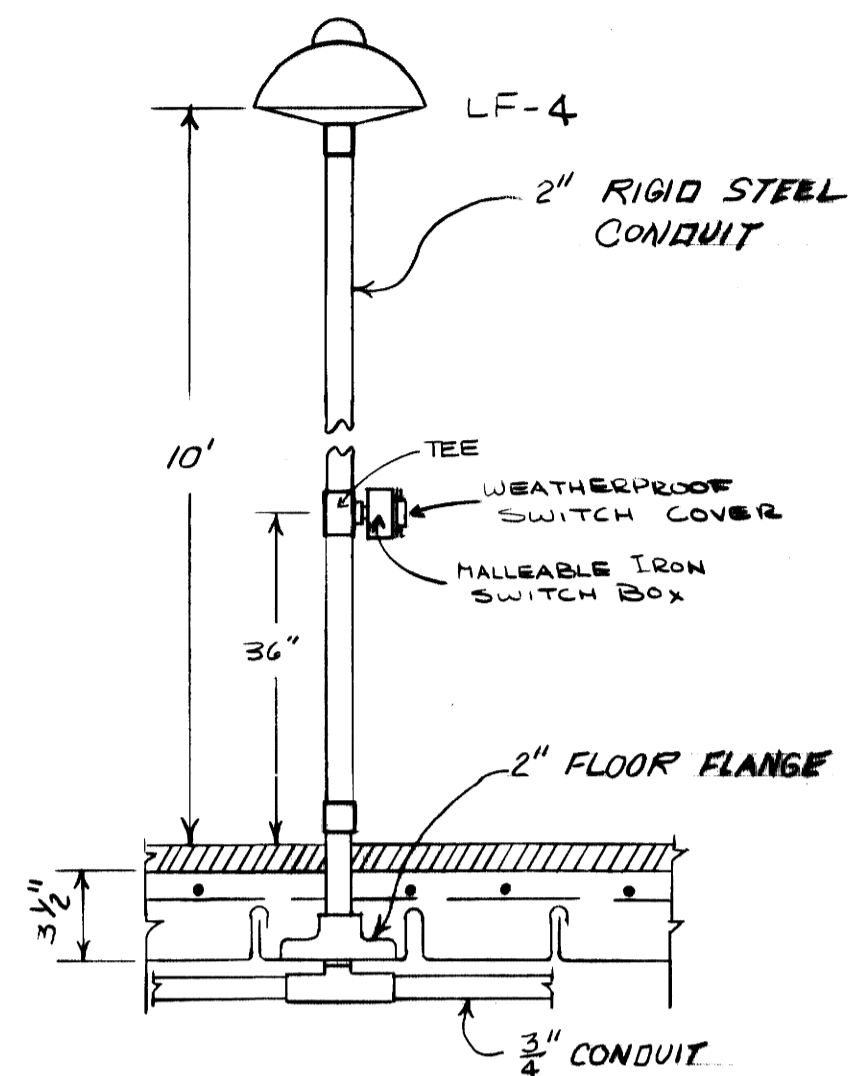
**AS-BUILT DRAWING**  
REVISIONS MADE DURING CONSTRUCTION  
HAVE BEEN INCLUDED ON THIS DRAWING  
MASON & HANGER - SILAS MASON CO., INC.  
BY GFS DATE 1-10-72  
NO REVISIONS



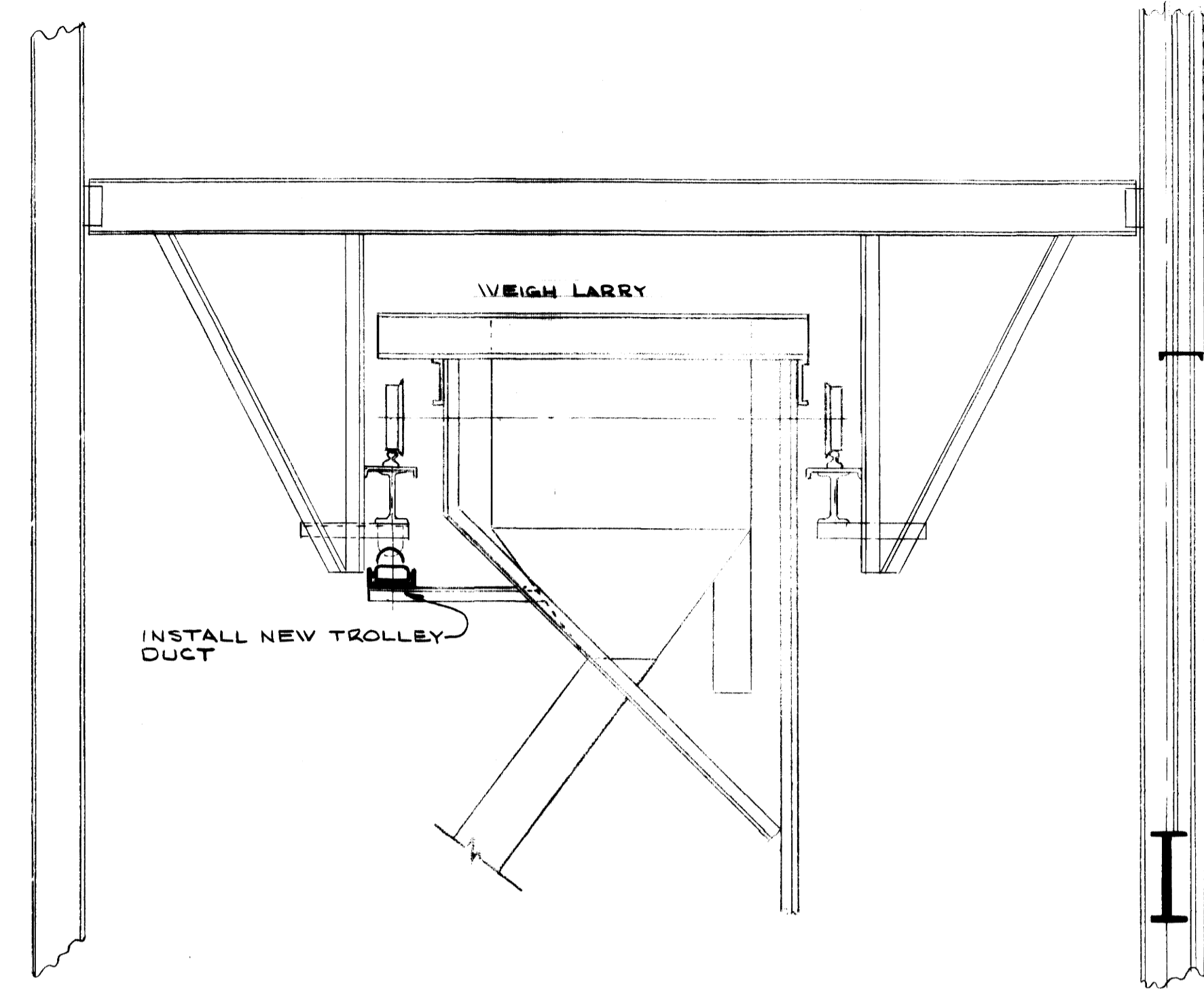
ADDITIONS & RENOVATIONS		
HEATING & COOLING PLANT - A. B. CHANDLER MEDICAL CENTER UNIVERSITY OF KENTUCKY LEXINGTON, KENTUCKY		
DRAWN BY M.P.	ROOF PLAN	DATE 5/28/70
TRACED BY N.C.	MASON & HANGER-SILAS MASON CO., INC. 1500 W. MAIN ST. LEXINGTON, KENTUCKY	SCALE AS NOTED
CHECKED BY T.W.W.	COMMONWEALTH OF KENTUCKY DEPARTMENT OF FINANCE DIVISION OF ENGINEERING FRANKFORT KENTUCKY	SPEC. NO. DRAWING NO. E-13
APPROVED BY <i>[Signature]</i>	AGENCY HEAD	DATE 5-28-70
APPROVED BY <i>[Signature]</i>	DIRECTOR, DIVISION OF ENGINEERING	DATE 6-1-70



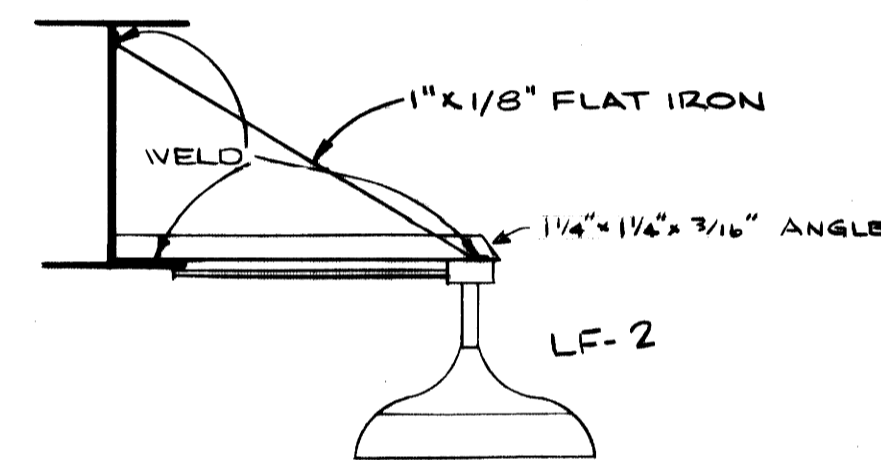
COOLING TOWER LIGHT DETAIL  
SCALE 1"=1'-0"



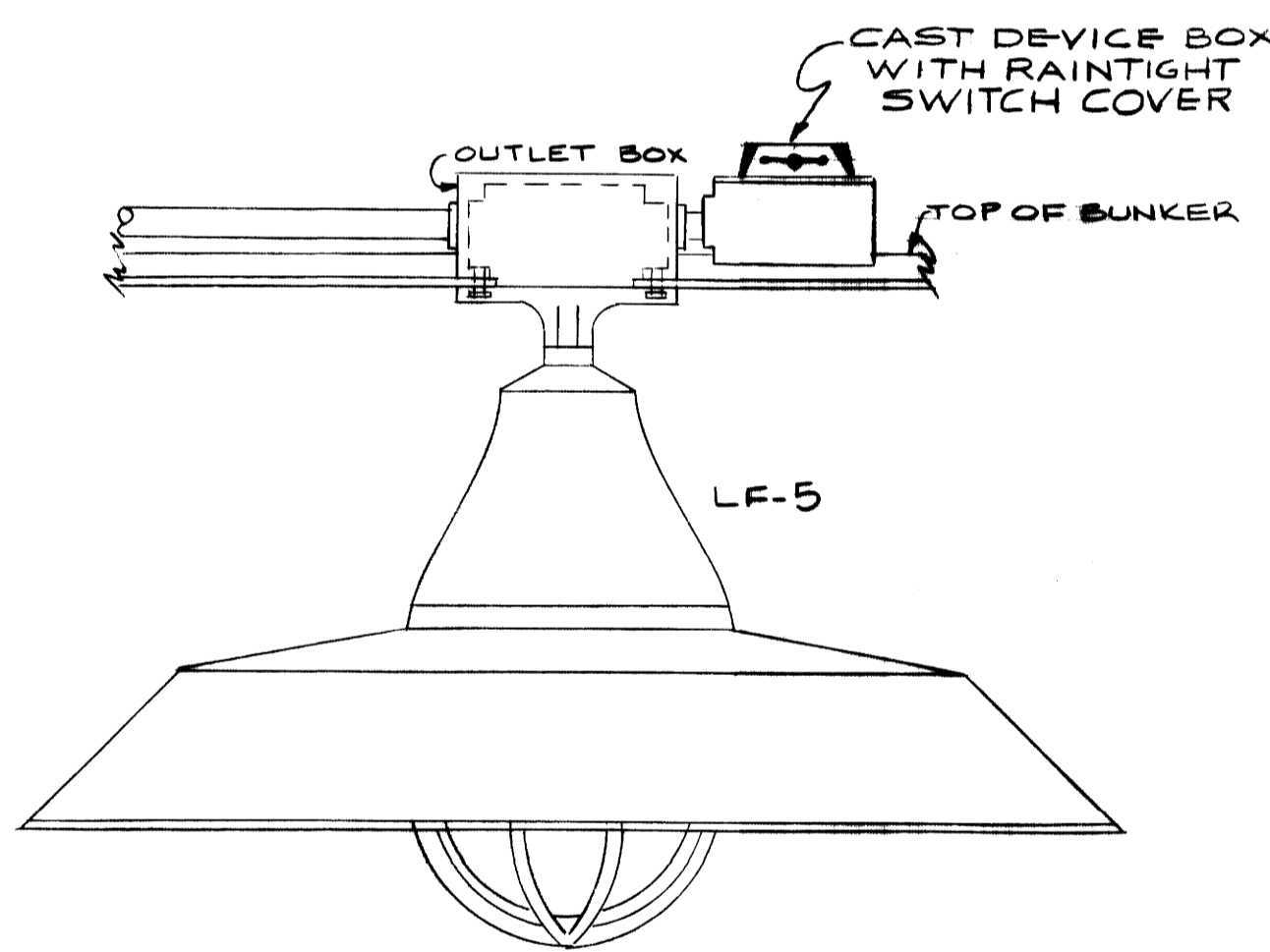
ROOF LIGHT DETAIL  
NO SCALE



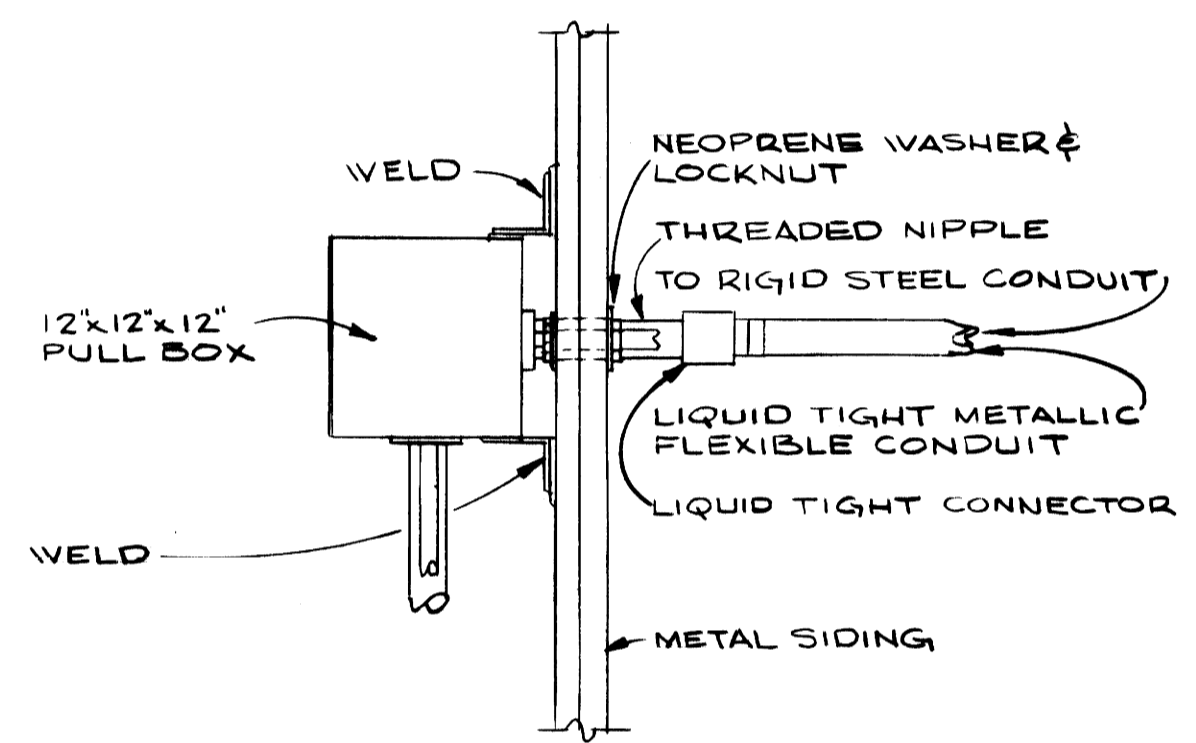
WEIGH LARRY  
TROLLEY BUS DUCT SUPPORT DETAIL  
NO SCALE



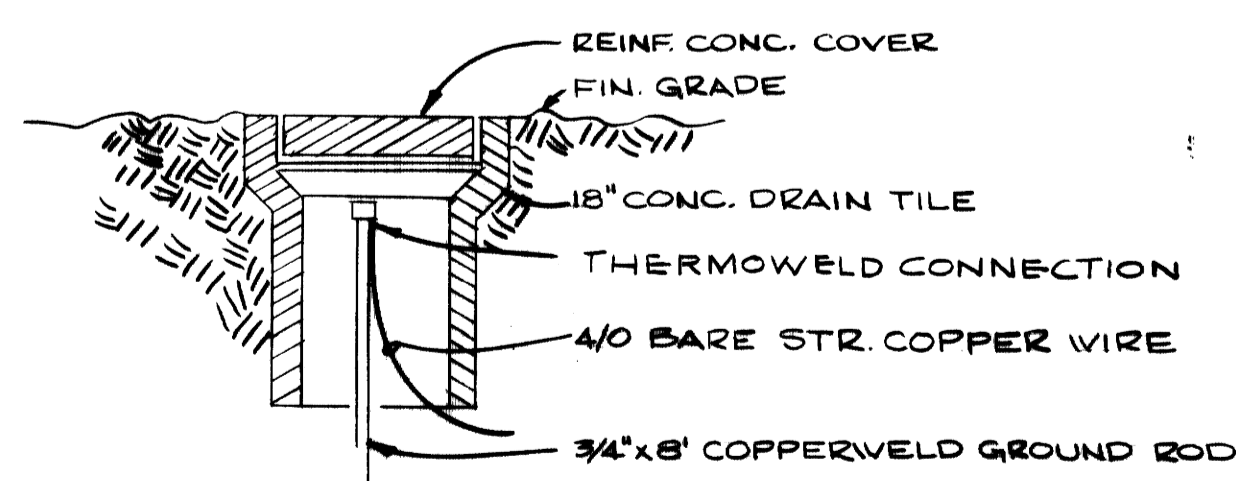
BOILER OPERATOR AREA  
LIGHT DETAIL  
NO SCALE



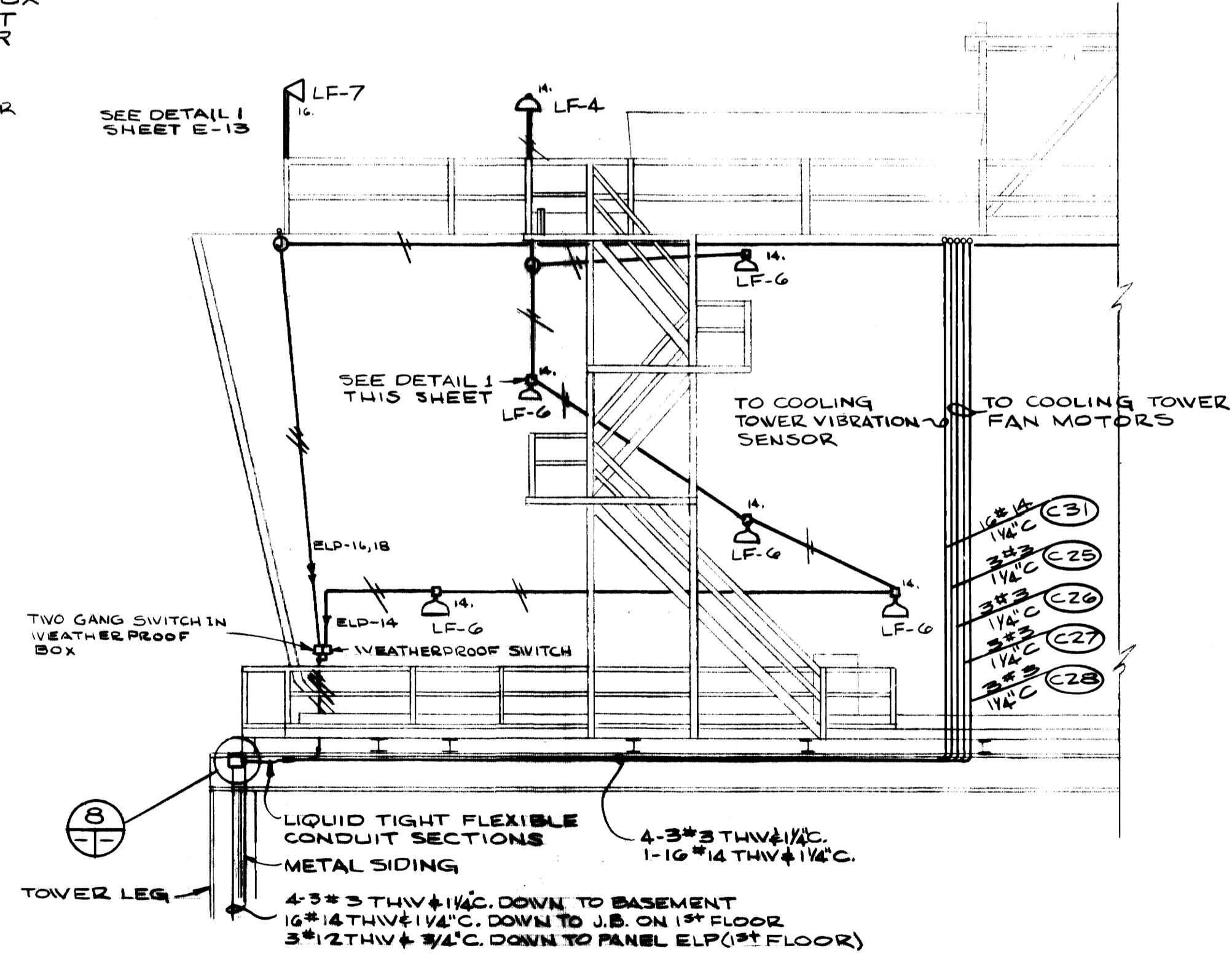
COAL BUNKER LIGHT DETAIL  
NO SCALE



PULLBOX DETAIL  
SCALE 1"=1'-0"



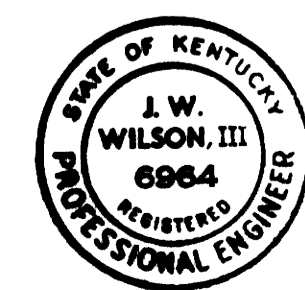
TYPICAL INSTALLATION GROUND POINT  
NO SCALE



COOLING TOWER STAIR LIGHTING DETAIL

AS-BUILT DRAWING	
REVISIONS MADE DURING CONSTRUCTION HAVE BEEN INCLUDED ON THIS DRAWING	
MASON & HANGER - SILAS MASON CO., INC.	DATE 1-10-72
BY GFS	
NO. REVISIONS	

ADDITIONS & RENOVATIONS		
HEATING & COOLING PLANT - A. B. CHANDLER MEDICAL CENTER		
UNIVERSITY OF KENTUCKY LEXINGTON, KENTUCKY		
DRAWN BY J.W.W.	WEIGH LARRY, LIGHTING & GROUNDING DETAILS	DATE 5/28/70
TRACED BY N.G.	MASON & HANGER - SILAS MASON CO., INC. 1500 W. MAIN ST. LEXINGTON, KENTUCKY	SCALE AS NOTED SPEC. NO.
CHECKED BY J.W.W.	COMMONWEALTH OF KENTUCKY DEPARTMENT OF FINANCE DIVISION OF ENGINEERING FRANKFORT, KENTUCKY	DRAWING NO. E-14

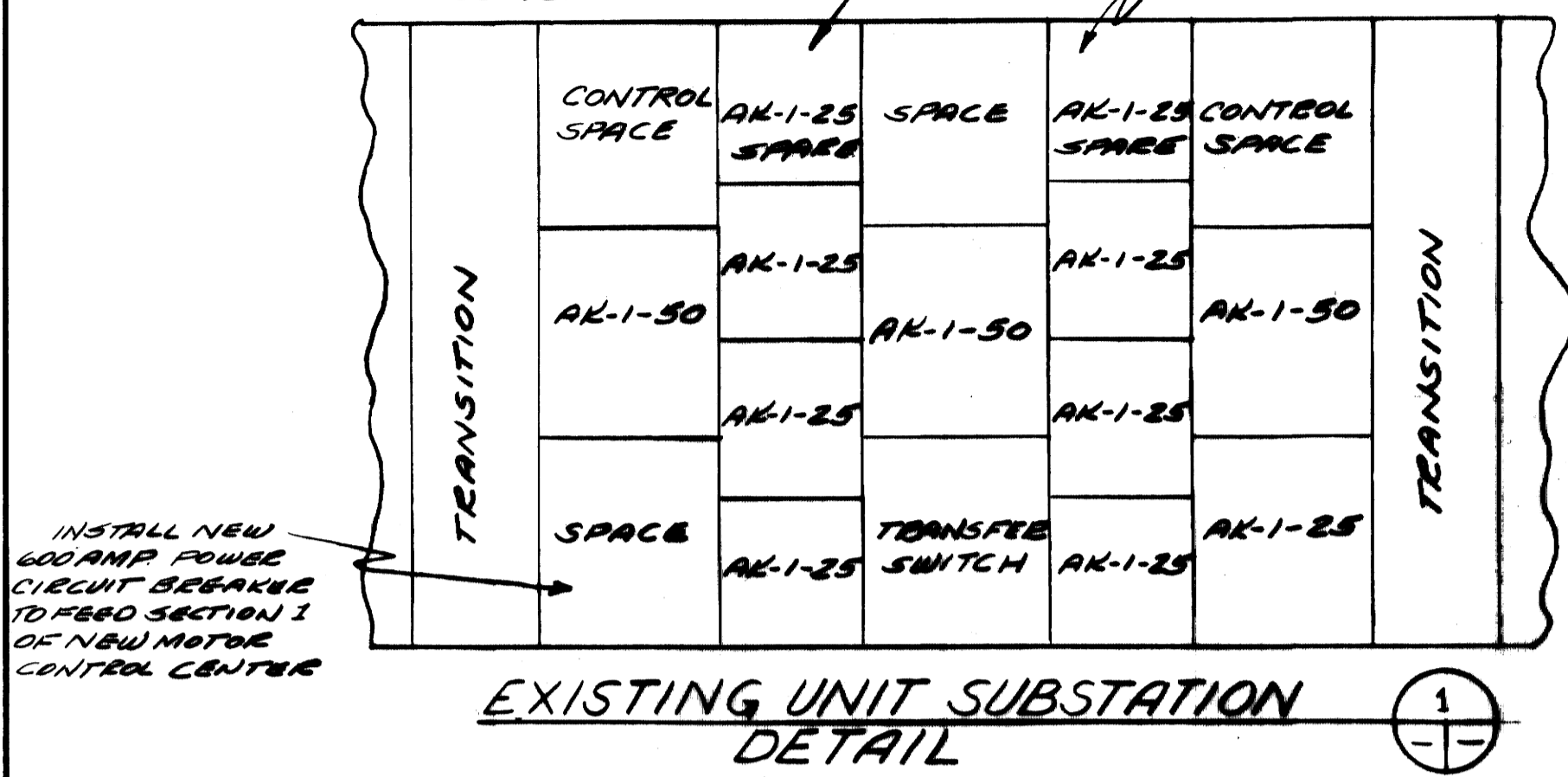


APPROVED BY *J. W. Wilson, III* DATE 5-28-70  
AGENCY HEAD  
APPROVED BY *[Signature]* DATE 6-1-70  
DIRECTOR, DIVISION OF ENGINEERING

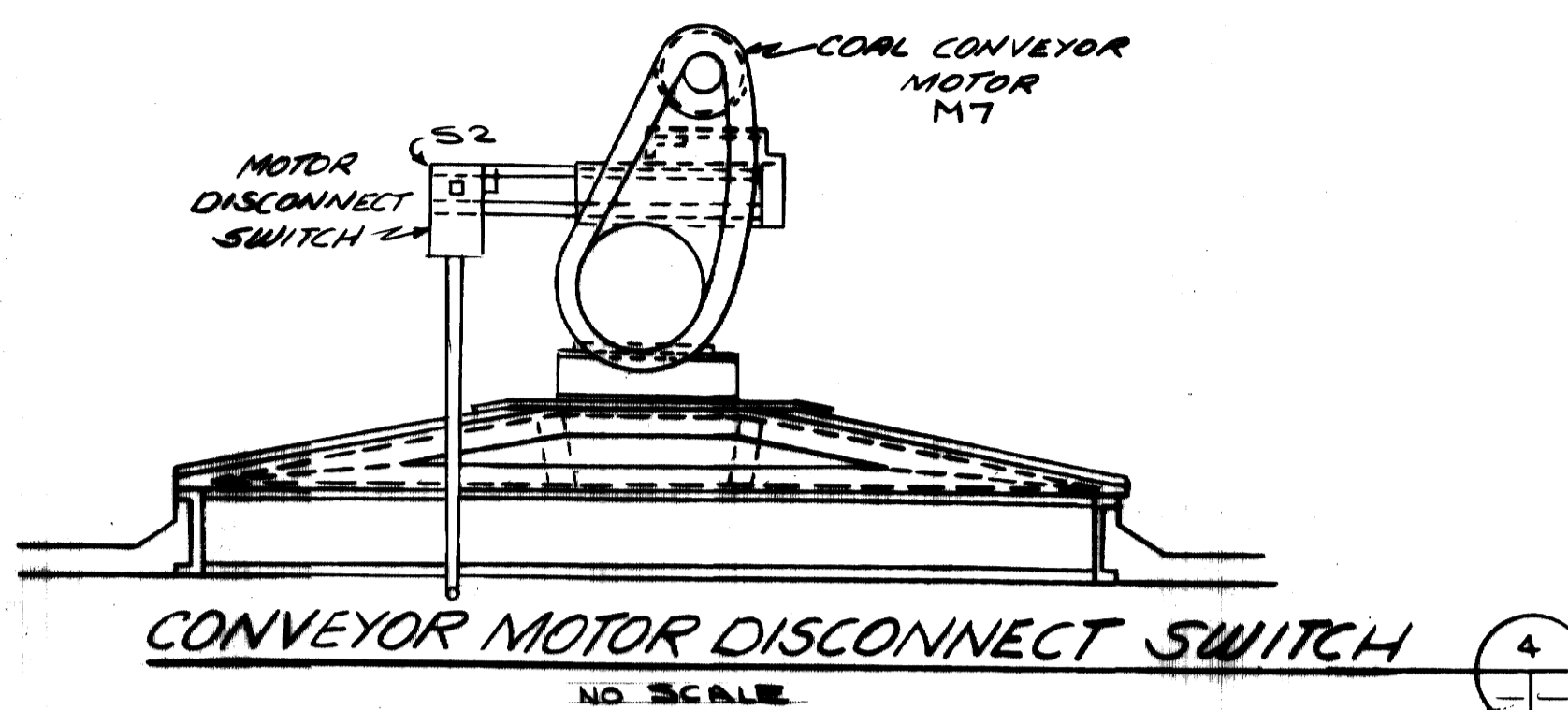


USE EXISTING C.B. TO FEED SECTION 2 OF NEW MOTOR CONTROL CENTER

USE EXISTING C.B. TO FEED THROUGH AUTO-TRANSFER SWITCH FOR NEW EMERGENCY GENERATOR



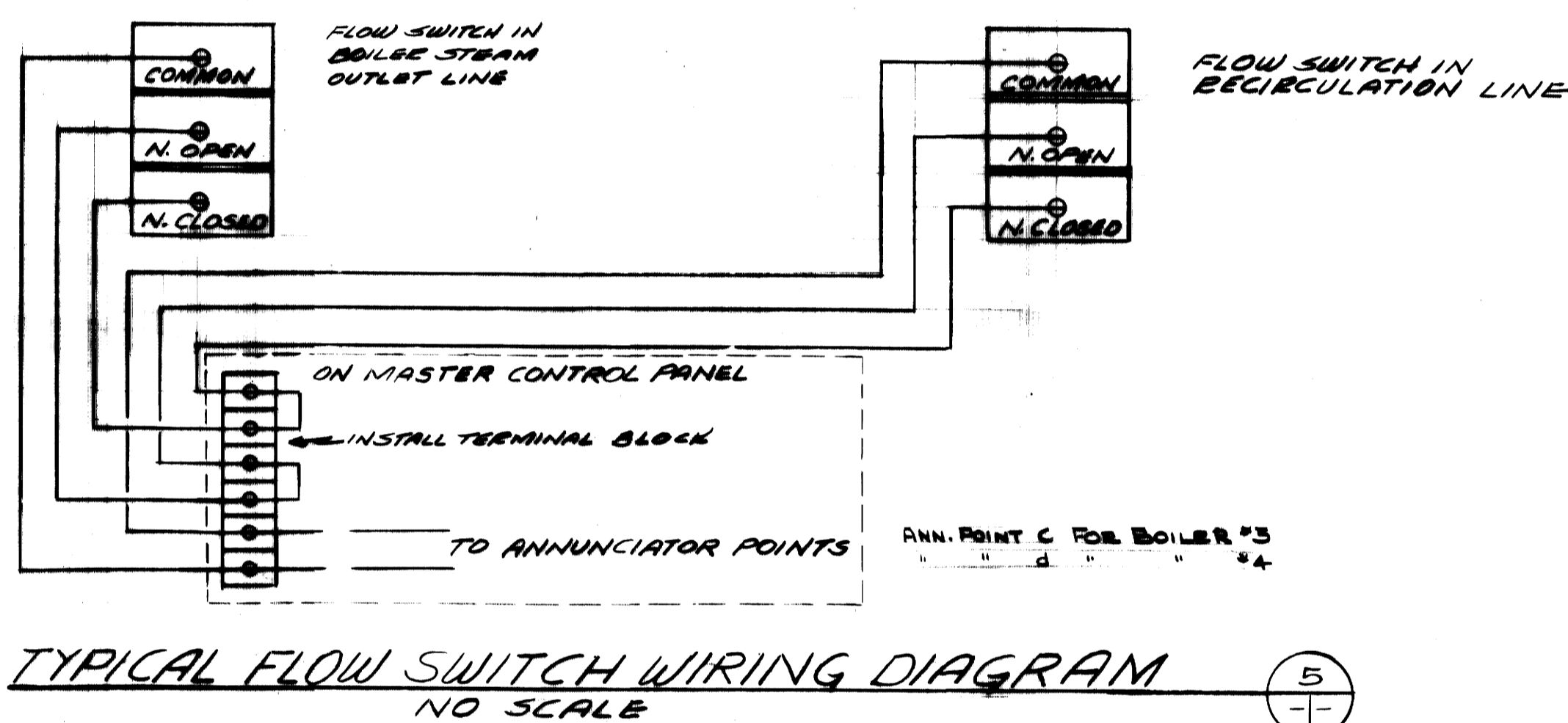
INSTALL NEW 600 AMP POWER CIRCUIT BREAKER TO FEED SECTION 1 OF NEW MOTOR CONTROL CENTER



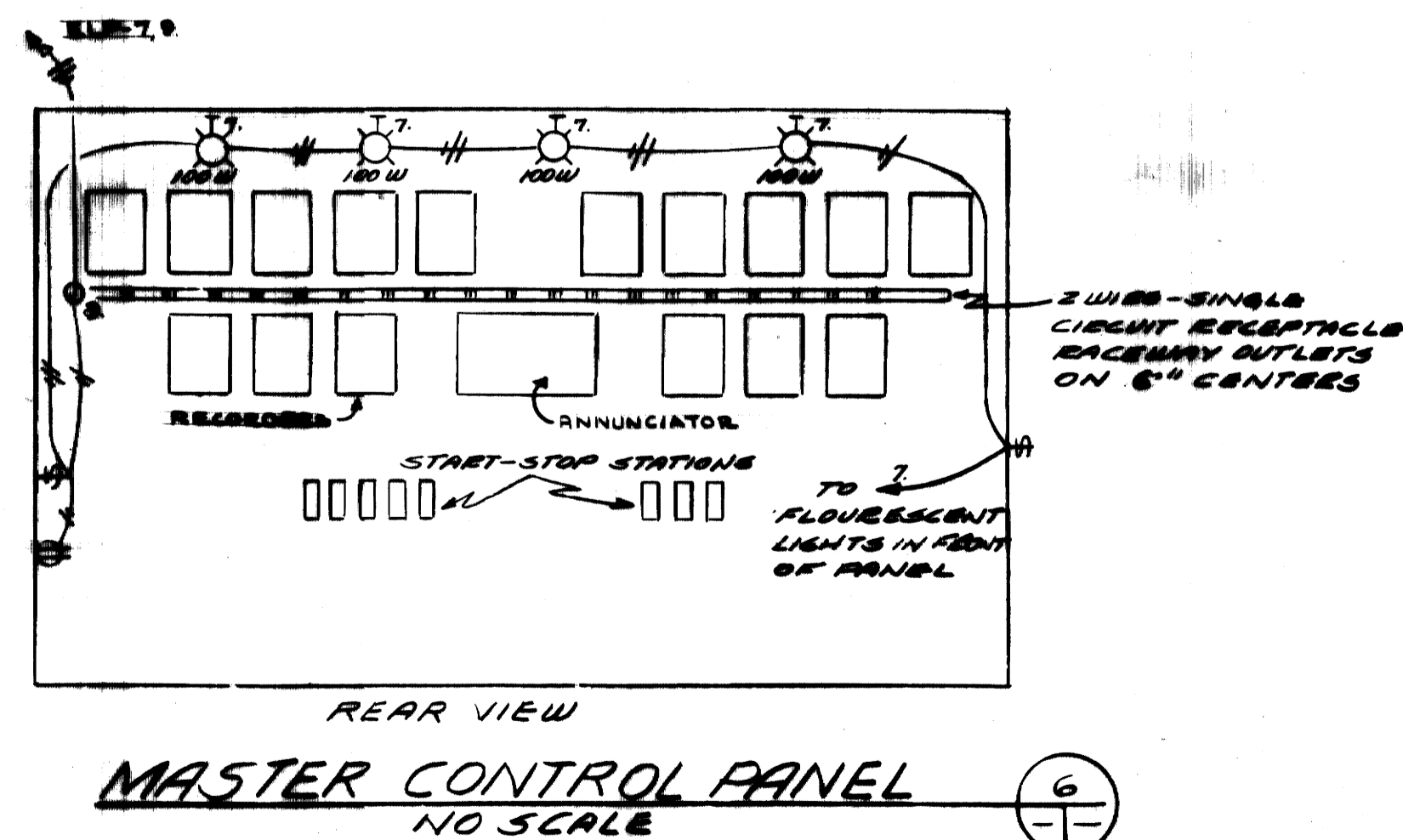
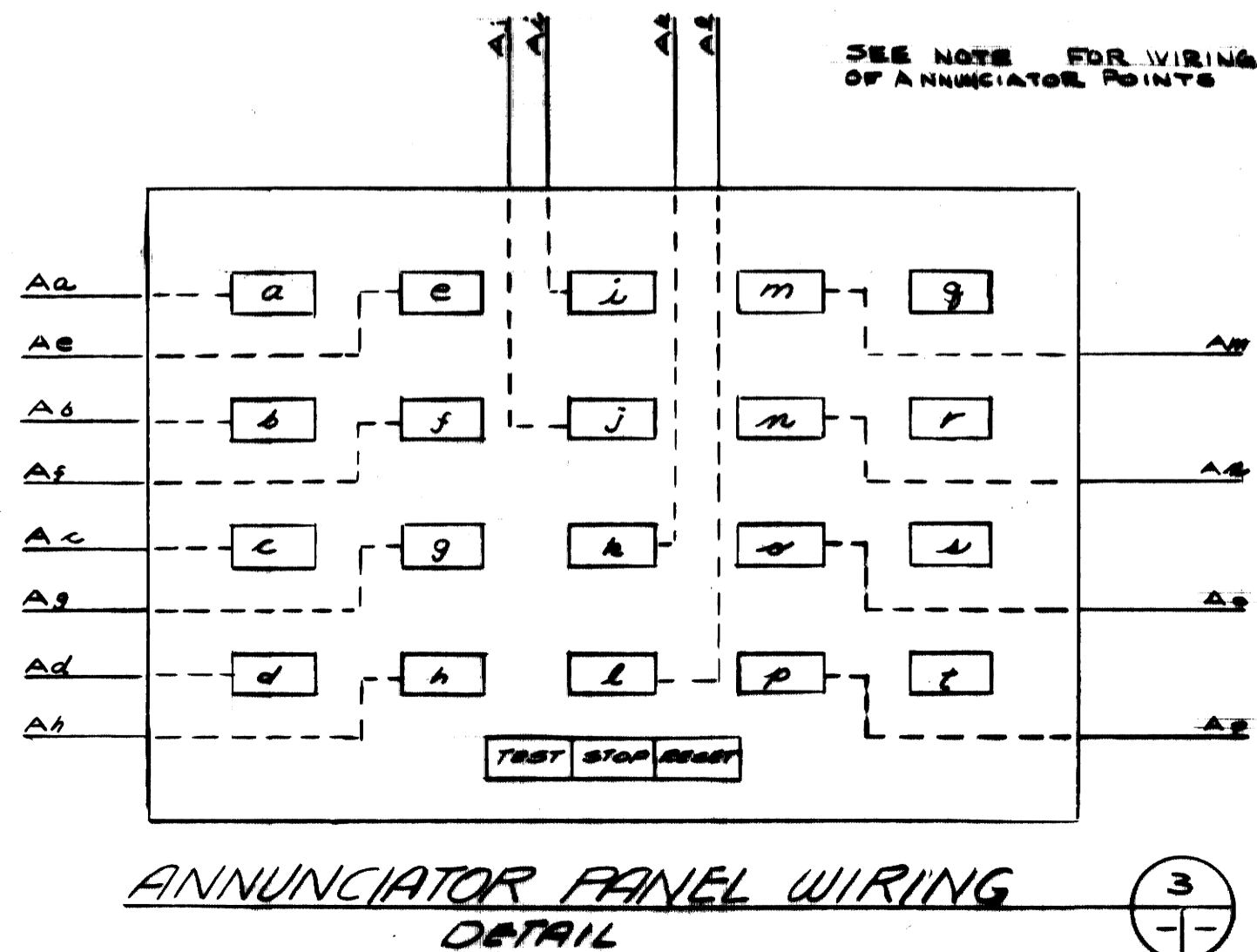
- NOTE**
- ANNUNCIATOR POINTS SHALL BE WIRED TO SWITCH POINTS AS NOTED BELOW
- Aa - WIRE TO COOLING TOWER LOW WATER LEVEL SWITCH
  - Ab - WIRE TO COOLING TOWER WATER TEMP. SWITCH
  - Ac - SEE DETAIL 5 THIS SHEET
  - Ad - " " " " " " " "
  - Ae - WIRE TO DEARATOR HIGH WATER LEVEL SWITCH
  - Af - " " " " " " " "
  - Ag - " " " " " " " "
  - Ah - WIRE TO CONTACT POINTS ON FEEDWATER PRESSURE RECORDER
  - Al - WIRE TO CONTACT POINTS ON MAIN STEAM HEADER TEMP. RECORDER
  - Aj - WIRE TO NEW AIR COMPRESSOR LOW PRESSURE SWITCH
  - Am - WIRE TO COOLING TOWER VIBRATION SWITCH #1
  - Al - " " " " " " " " 2
  - Am - " " " " " " " " 3
  - An - " " " " " " " " 4
  - Ap - WIRE TO FUEL OIL TANK #1 LEVEL GAUGE
  - Aq - WIRE TO FUEL OIL TANK #2 LEVEL GAUGE

SECTION #1	SECTION #2	EMERGENCY SECTION
SECTION #1	SECTION #2	
1) SPARE FOR FUTURE BOILER	4) SPARE	SPACE
2) 225 C.B. BOILER #3 FAN MOTOR	5) 5 HP NEMA SIZE 1 SCREW CONN.	SPACE
3) 225 C.B. BOILER #4 FAN MOTOR	6) 30 A. C.B. PANEL #1 TO A. C.B. FUEL OIL FEED LINE	11) 30 AMP C.B. FUEL OIL CONDENSATE TRIP PUMP
	7) 100 HP NEMA 4 BOILER FEED WATER	12) 40 AMP CB EMERGENCY LIGHT PANEL
	8) 15 HP NEMA 2 CONDENSATE TRIP PUMP	13) 25 AMP CB EXISTING EMERGENCY FEEDER
	9) 15 HP NEMA 2 CONDENSATE TRIP PUMP	
	10) 20 HP NEMA 3 AIR COMPRESSOR	

NOTE: ALL CIRCUIT BREAKERS SHALL HAVE AN INTERRUPTING RATING OF 14,000 AMP RMS SYMMETRICAL



**ELEVATION VIEW OF MOTOR CONTROL CENTER #4**  
1/8" = 1'-0"



**AS-BUILT DRAWING**  
REVISIONS MADE DURING CONSTRUCTION HAVE BEEN INCLUDED BY THIS DRAWING  
MASON & HANGER - SILAS MASON CO., INC.  
BY GFS DATE 1-10-72  
ON DETAIL 2 CHANGED CONTROLS A-E 9 TO 15 HP NEMA 2 FROM 10 HP NEMA 1

ADDITIONS & RENOVATIONS  
**HEATING & COOLING PLANT - A. B. CHANDLER MEDICAL CENTER**  
UNIVERSITY OF KENTUCKY LEXINGTON, KENTUCKY

DRAWN BY J.W.W.	DETAILS	DATE 5/28/70
TRACED BY N.Q.	MASON & HANGER - SILAS MASON CO., INC. 1800 W. MAIN ST. LEXINGTON, KENTUCKY	SCALE AS NOTED
CHECKED BY J.W.W.	COMMONWEALTH OF KENTUCKY DEPARTMENT OF FINANCE DIVISION OF ENGINEERING FRANKFORT KENTUCKY	SPEC. NO. DRAWING NO. E-15

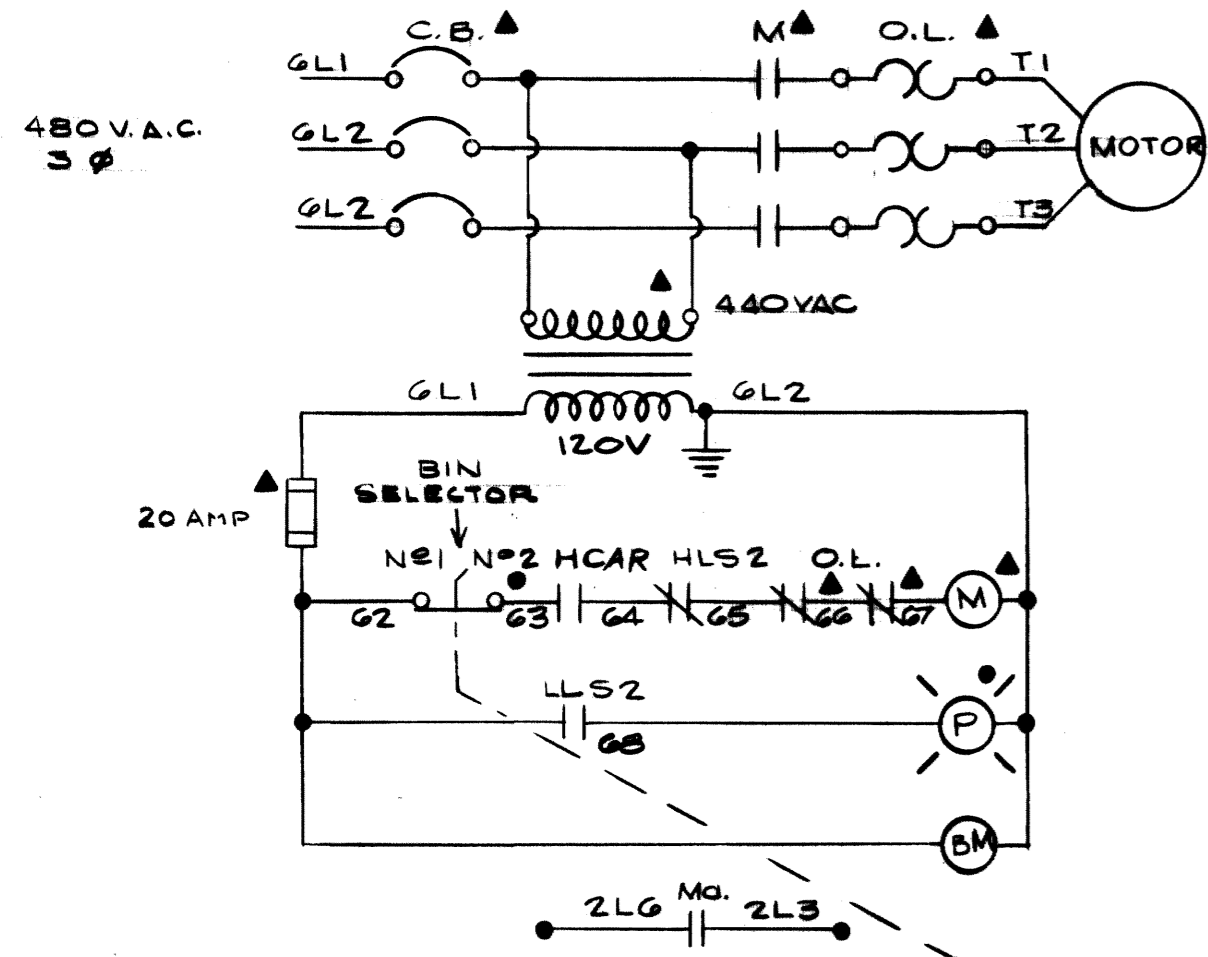
APPROVED BY: [Signature] DATE: 6-1-70  
DIRECTOR, DIVISION OF ENGINEERING



u-5049

ELEMENTARY WIRING DIAGRAM FOR NEW SCREW CONVEYOR

1

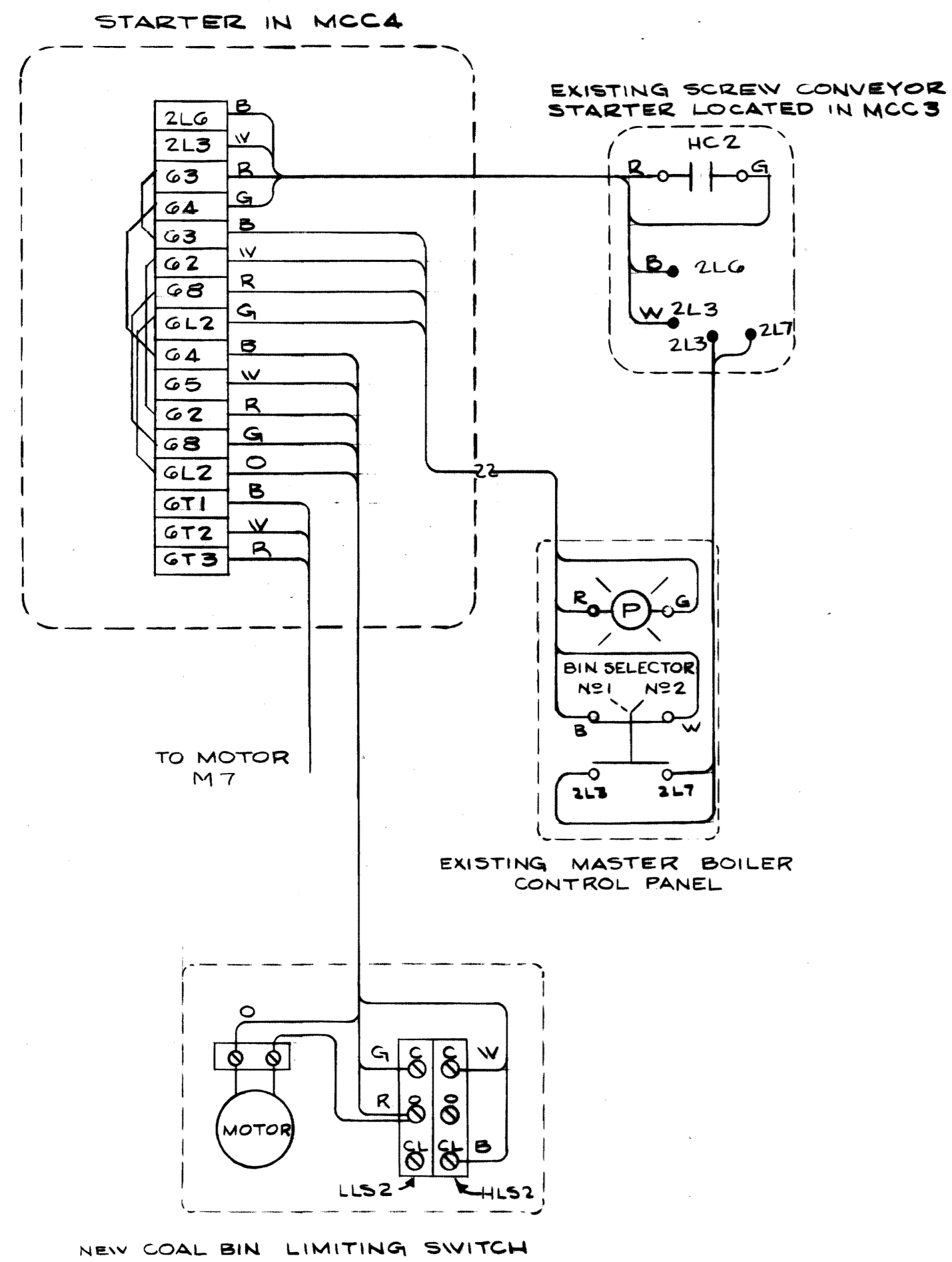
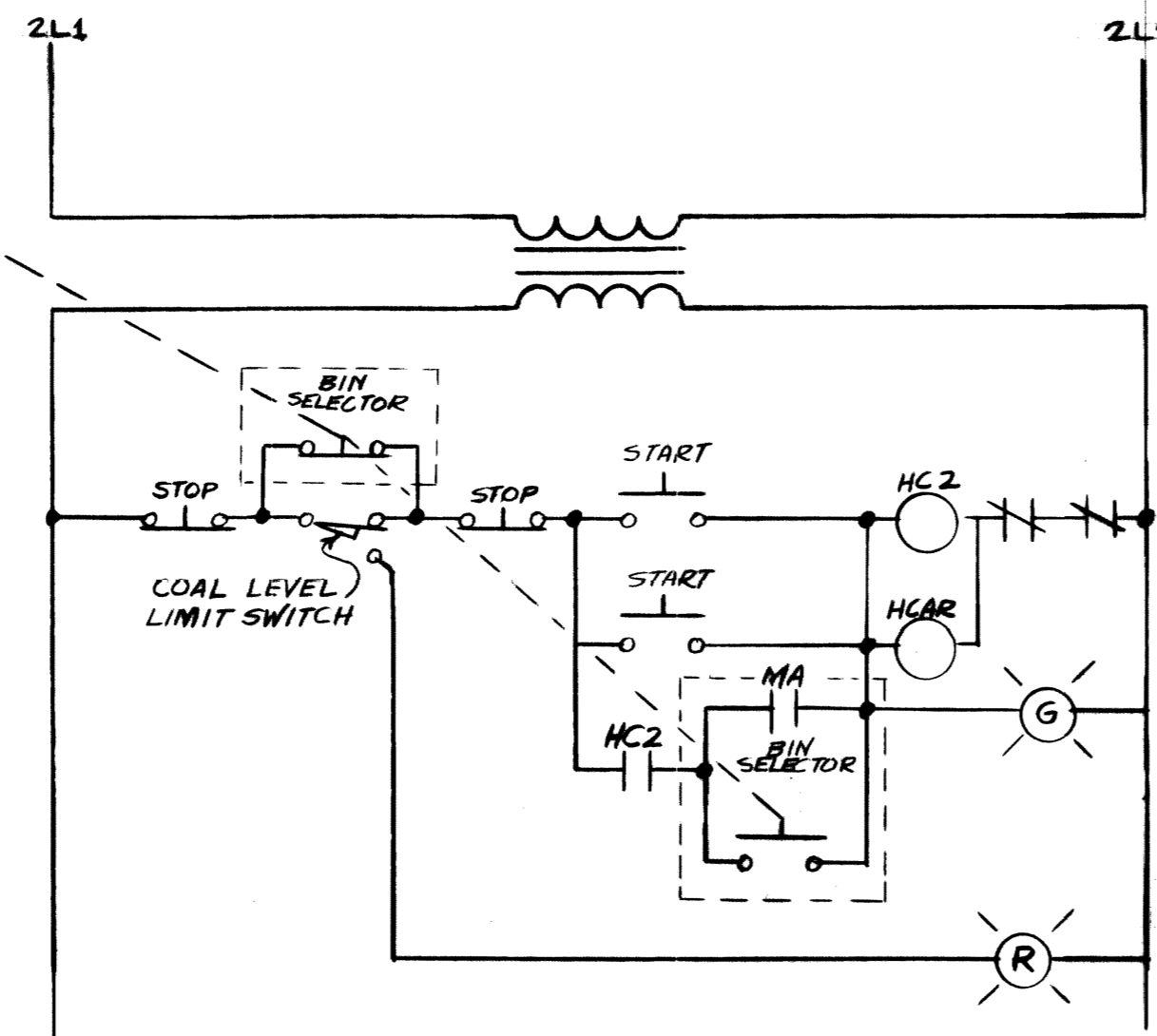


NOTE

- AUXILIARY CONTACTS (Ma) FROM STARTER NO 6 IN MCC-4 AND CONTACTS FROM BIN SELECTOR SWITCH TO BE ADDED TO EXISTING MASTER CONTROL PANEL ARE TO BE ADDED TO THE CONTROL CIRCUIT OF THE EXIST'G SCREW CONVEYOR MOTOR LOCATED IN MCC-3.
- INSTALL NEW COAL BIN LOW LEVEL LIGHT & COAL BIN SELECTOR SWITCH ON EXIST'G MASTER CONTROL PANEL BELOW EXIST'G LOW LEVEL LIGHT FOR EXIST'G COAL BIN.

CONTROL SCHEMATIC FOR EXIST'G SCREW CONVEYOR

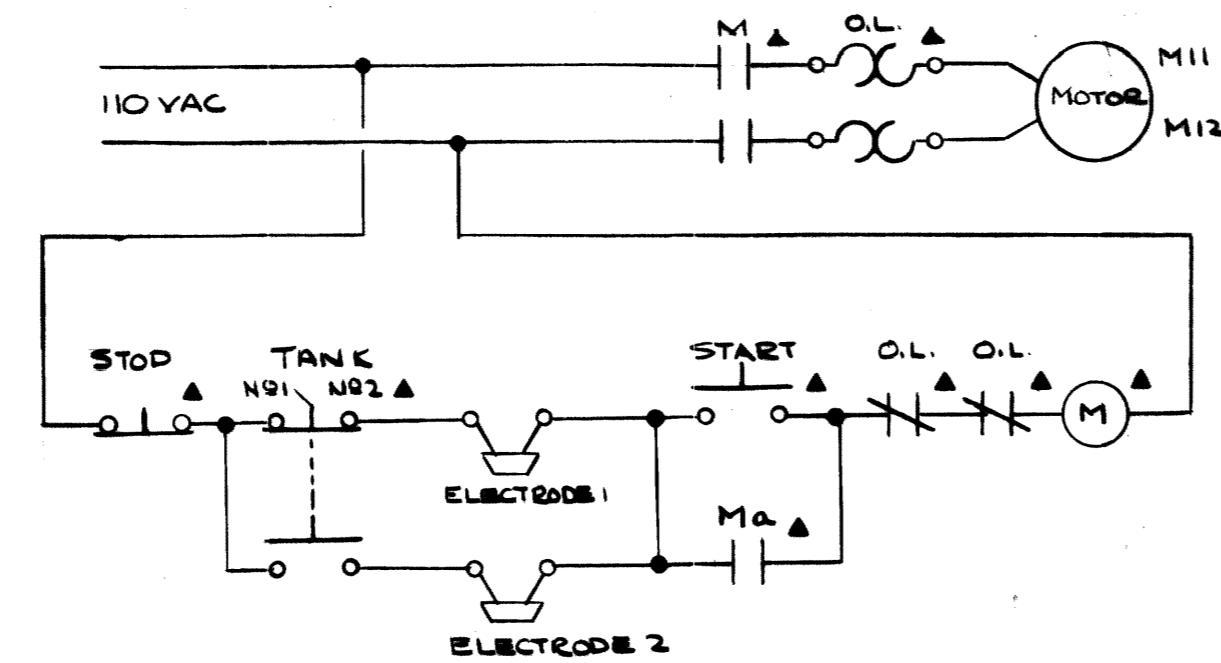
2



MOTOR #	NAME	WIRE NO.	LOCATION OF MOTOR
M 7	NEW SCREW CONVEYOR	AS SHOWN	WEST END ON SCREW CONVEYOR EXTENSION ON ROOF

CONTROL FOR CHEMICAL FEED PUMPS

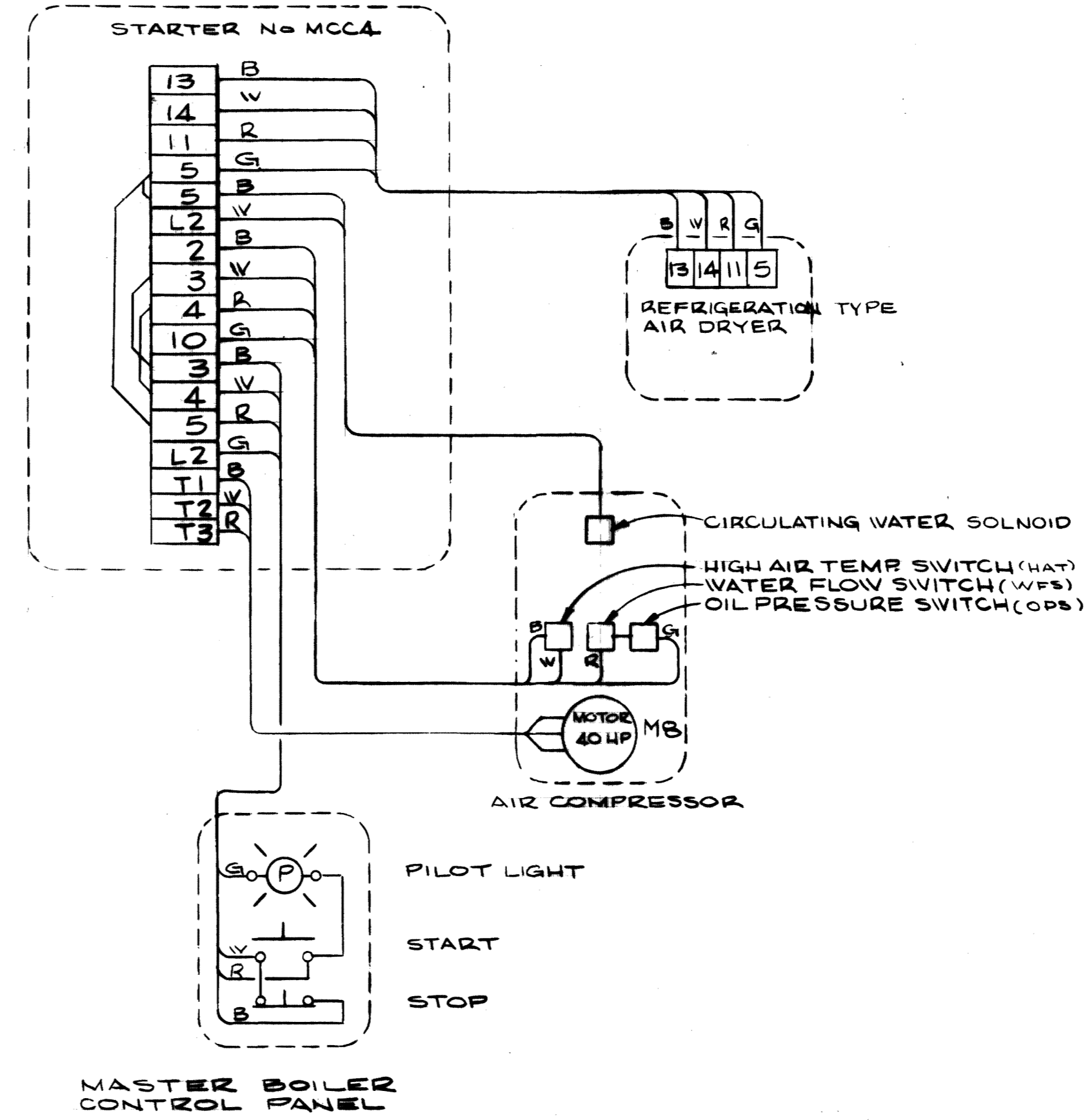
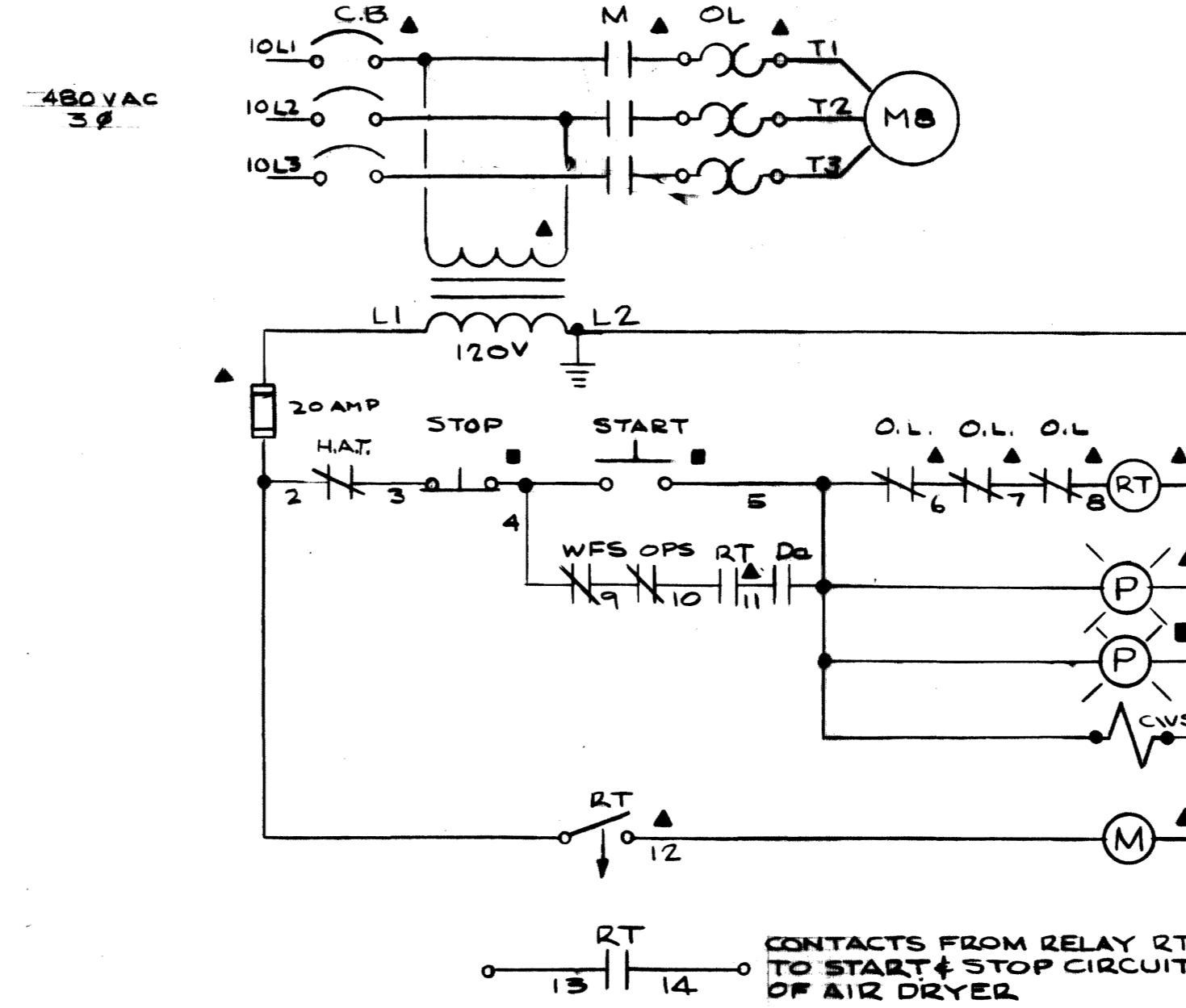
3



MOTOR #	NAME	LOCATION
M11	CHEMICAL FEED PUMP	BASEMENT EXIST'G BUILDING
M12	CHEMICAL FEED PUMP	BASEMENT

ELEMENTARY WIRING DIAGRAM FOR AIR COMPRESSOR

4



MOTOR #	NAME	WIRE NUMBER	LOCATION OF MOTOR
M 8	AIR COMPRESSOR	ADD PREFIX 10 TO WIRE NO. SHOWN	SOUTH EAST CORNER OF EXIST'G BOILER ROOM

SYMBOL SCHEDULE

SYMBOL	DESCRIPTION
▲	LOCATED IN STARTER
■	LOCATED ON NEW MASTER CONTROL PANEL
●	LOCATED ON EXISTING MASTER CONTROL PANEL
*	LOCATED ON BOILER FACE PANEL
(M)	ENERGIZING COIL OF STARTER CONTACTOR
M	MAIN CONTACTS OF STARTER
Ma	AUXILIARY CONTACTS ON STARTER
(P)	PILOT LIGHT WITH RED LENS
HCAR	AUXILIARY RELAY TO BE INSTALLED IN EXISTING SCREW CONVEYOR STARTER
HLS-2	CONTACTS IN NEW COAL BIN LIMIT SWITCH OPENS WHEN COAL BIN IS FULL
LLS-2	CONTACTS IN NEW COAL BIN LIMIT SWITCH CLOSSES WHEN COAL LEVEL IS LOW
(RM)	ROTOR MOTOR OF COAL BIN LIMIT SWITCH LOCATED IN TOP OF NEW COAL BUNKER
H.A.T.	CONTACTS OPEN ON HIGH DISCHARGE AIR TEMPERATURE OF AIR COMPRESSOR
WFS.	CONTACTS OPEN WHEN THERE IS NO WATER FLOW IN COOLING WATER SYSTEM OF AIR COMPRESSOR
O.P.	CONTACTS OPEN ON HIGH OIL PRESSURE IN LUBRICATION SYSTEM OF AIR COMPRESSOR
CWS	CIRCULATING WATER/SOLENOID IN COOLING WATER SYSTEM OF AIR COMPRESSOR
(E)	ELECTRODE LOCATED IN BOILER FEED CHEMICAL TANK. CONTACTS OPEN ON LOW LIQUID LEVEL IN TANK.
(RT)	PNEUMATIC TIMING RELAY WITH FOUR NORMALLY OPEN CONTACTS, TWO INSTANTANEOUSLY CLOSE AND TWO TIMED CLOSE
RT	TIMED CLOSE CONTACT OF RELAY RT (1 MIN DELAY)
Da	NORMALLY OPEN CONTACTS ON AIR DRYER STARTER
HCZ	HOLDING COIL FOR EXISTING SCREW CONVEYOR STARTER

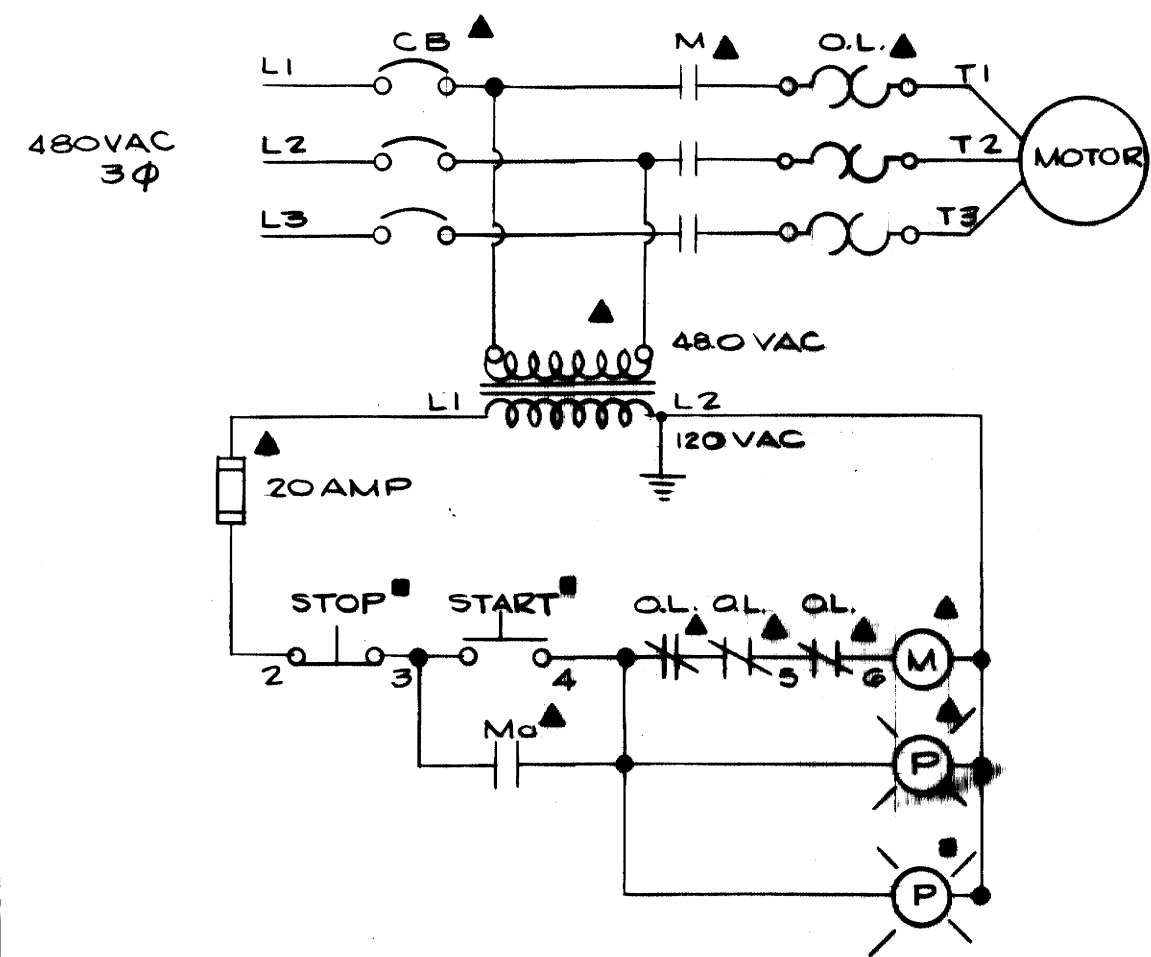
AS-BUILT DRAWING  
 REVISIONS MADE DURING CONSTRUCTION  
 HAVE BEEN INCLUDED ON THIS DRAWING  
 MASON & HANGER - SILAS MASON CO., INC.  
 BY GFS DATE 1-10-72  
 REVISED CONTROL SCHEMATIC  
 FOR EXISTING SCREW CONVEYOR



ADDITIONS & RENOVATIONS		
HEATING & COOLING PLANT - A. B. CHANDLER MEDICAL CENTER UNIVERSITY OF KENTUCKY LEXINGTON, KENTUCKY		
DRAWN BY M.P.	MOTOR CONTROL DETAILS	DATE 5/28/70
TRACED BY N.C.	MASON & HANGER - SILAS MASON CO., INC. 1500 W. MAIN ST. LEXINGTON, KENTUCKY	SCALE AS NOTED SPEC. NO.
CHECKED BY J.W.W.	COMMONWEALTH OF KENTUCKY DEPARTMENT OF FINANCE DIVISION OF ENGINEERING FRANKFORT KENTUCKY	DRAWING NO. E-16
APPROVED BY AGENCY HEAD	DATE 5-28-70	
APPROVED BY DIRECTOR, DIVISION OF ENGINEERING	DATE 6-1-70	

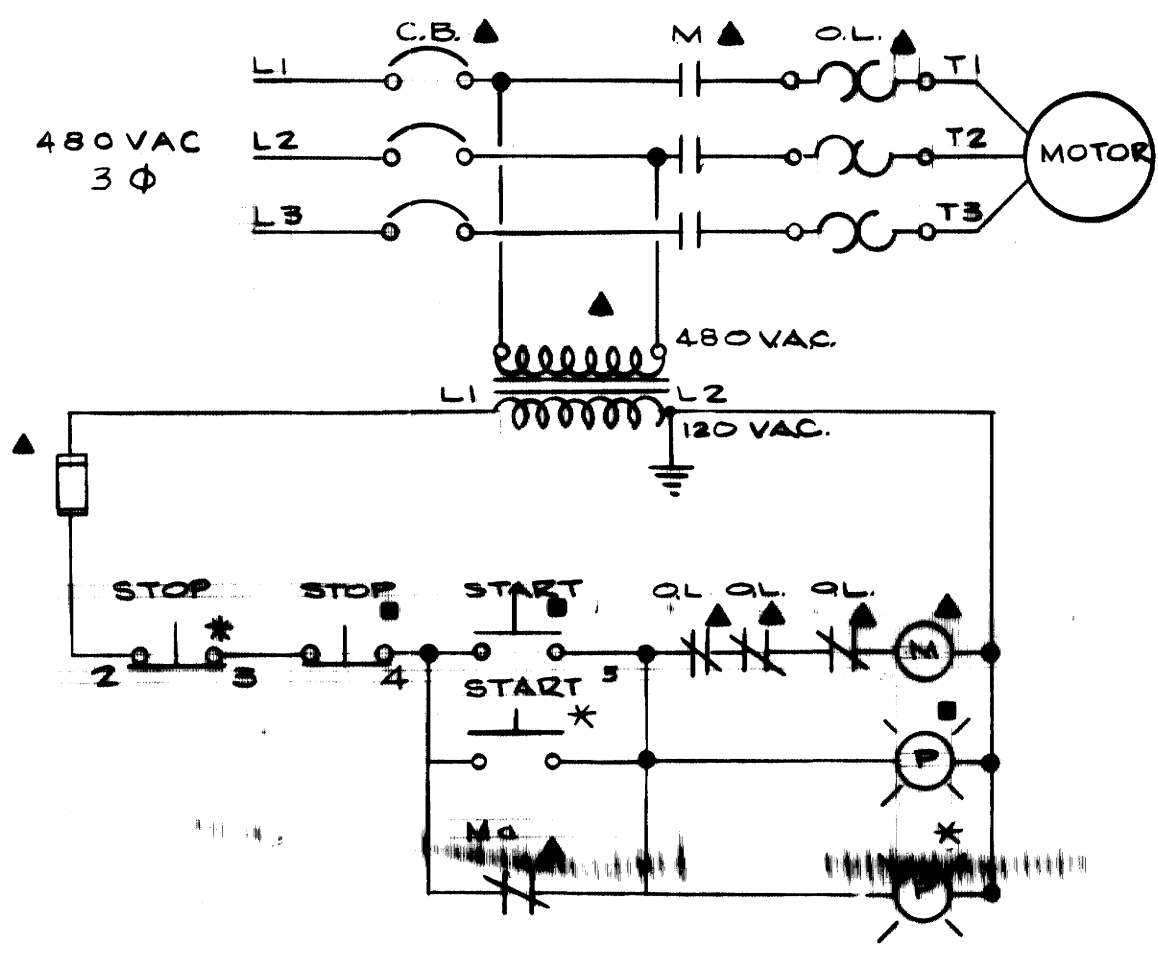
ELEMENTARY WIRING DIAGRAM FOR STARTER 7, 8, & 9

1



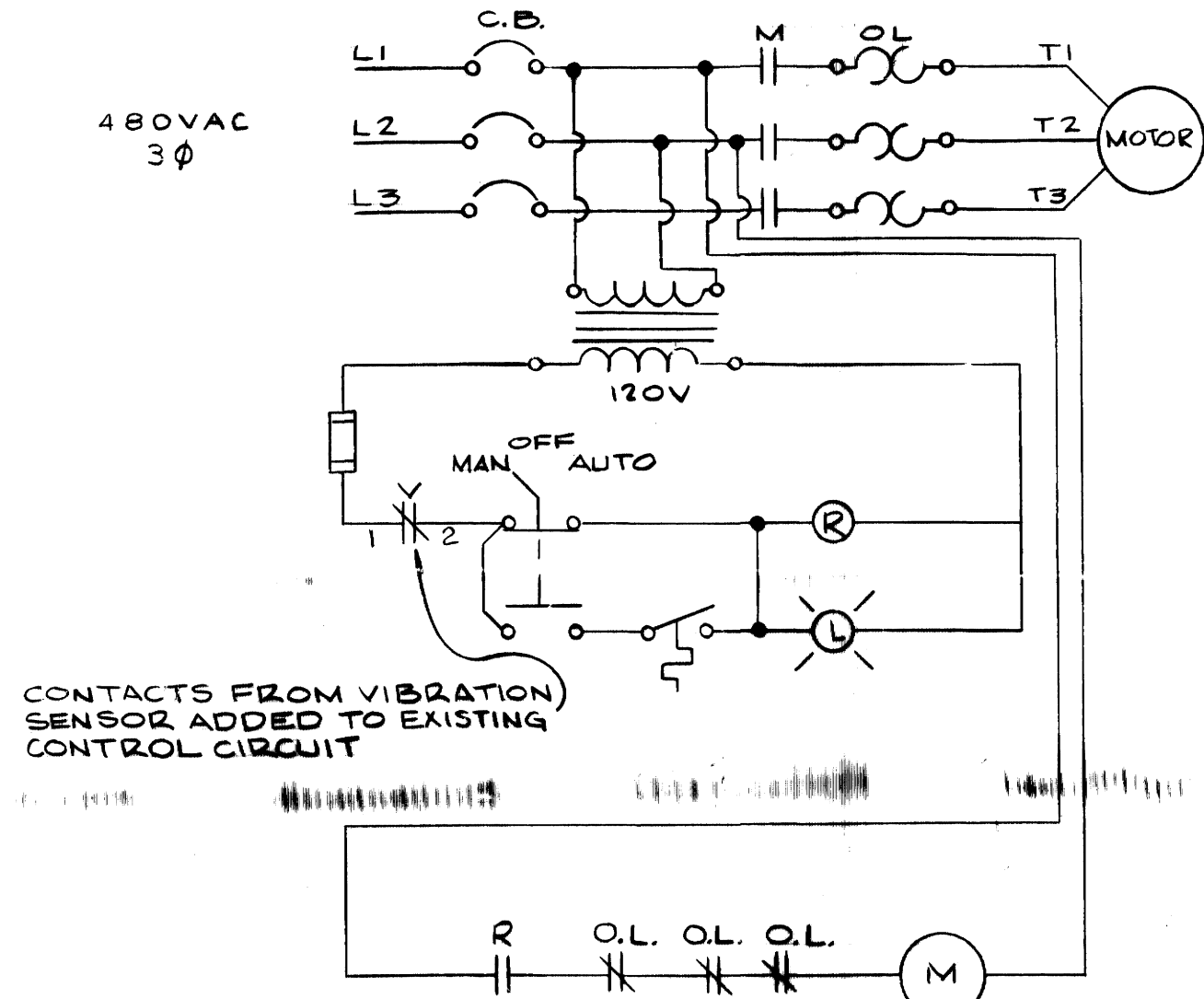
ELEMENTARY WIRING DIAGRAM

2



ELEMENTARY WIRING DIAGRAM FOR COOLING TOWER FANS MOTOR NO. 13, 14, 15 & 16

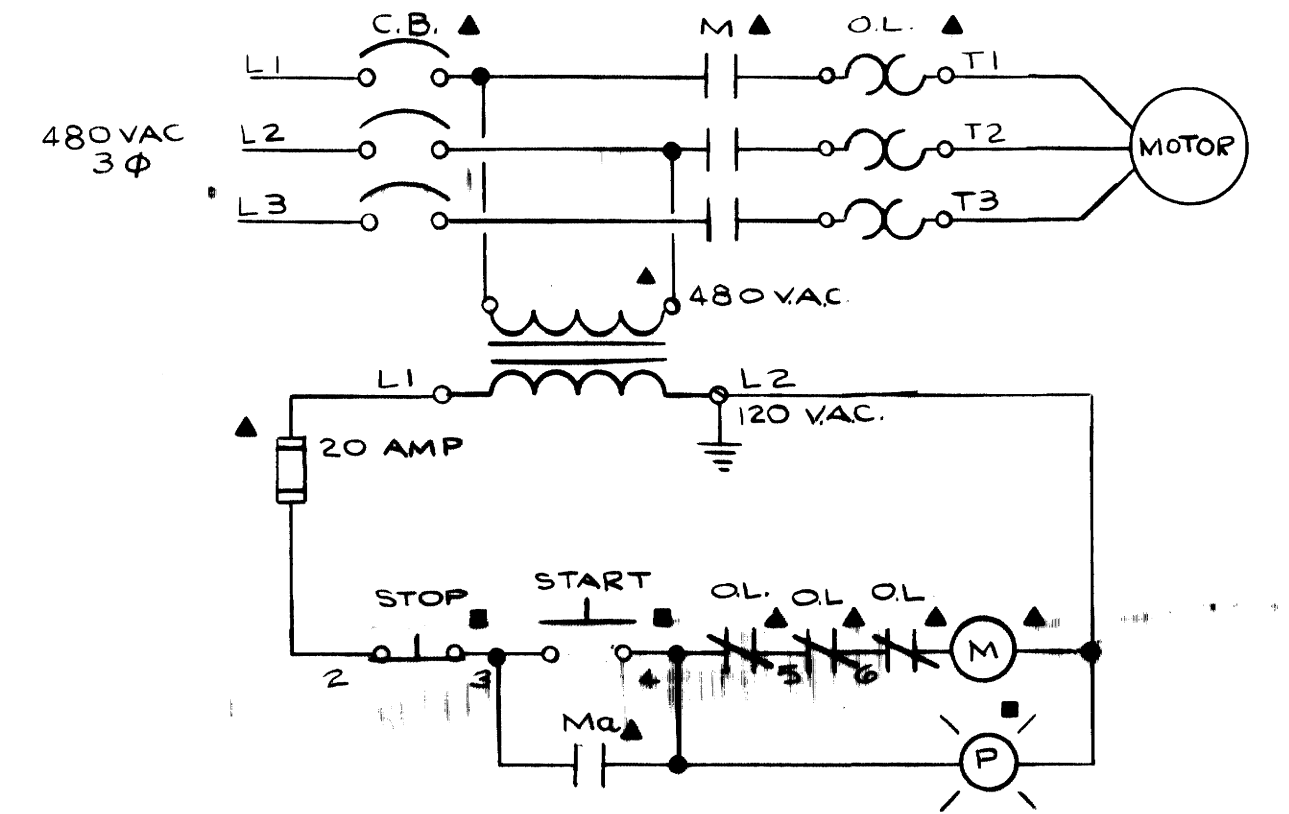
3



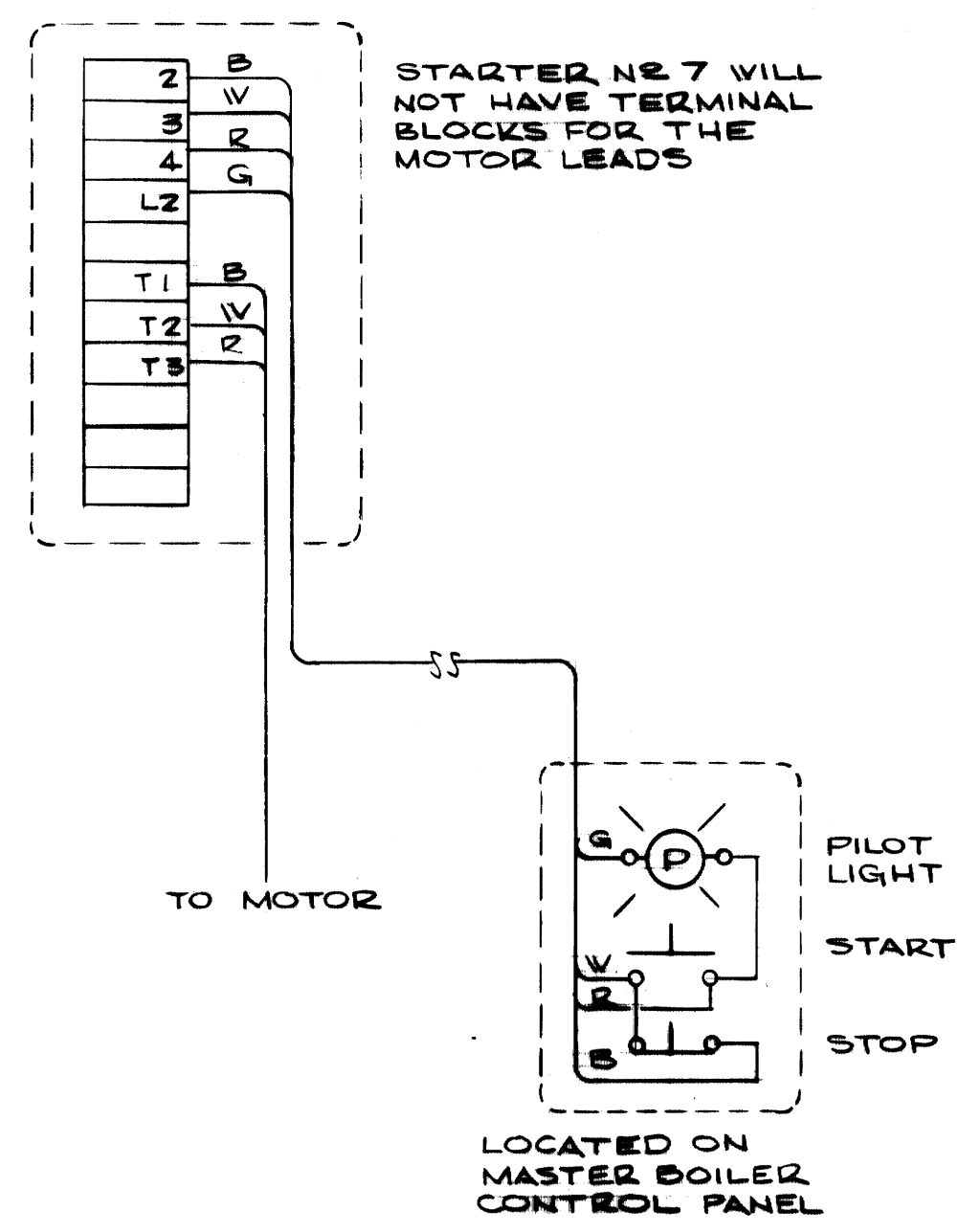
CONTACTS FROM VIBRATION SENSOR ADDED TO EXISTING CONTROL CIRCUIT

ELEMENTARY WIRING DIAGRAM

4



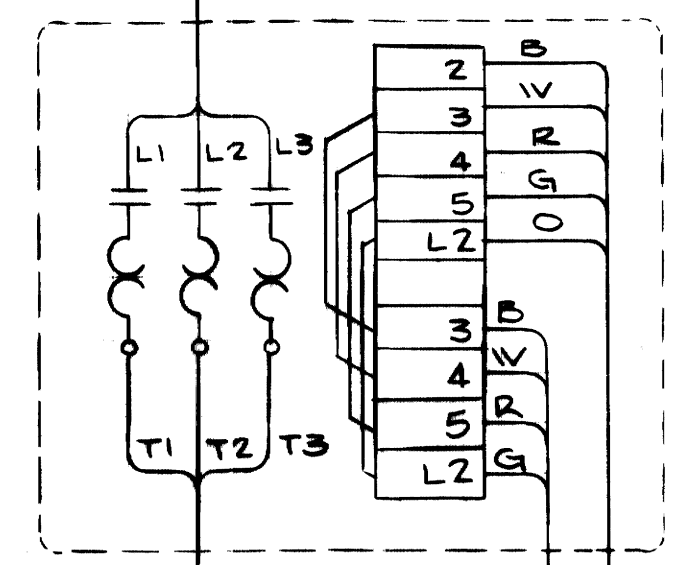
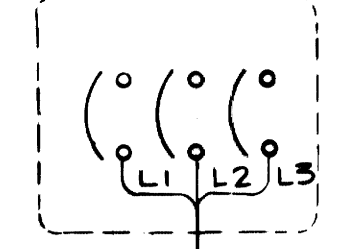
STARTER IN MCC-4



STARTER NO 7 WILL NOT HAVE TERMINAL BLOCKS FOR THE MOTOR LEADS

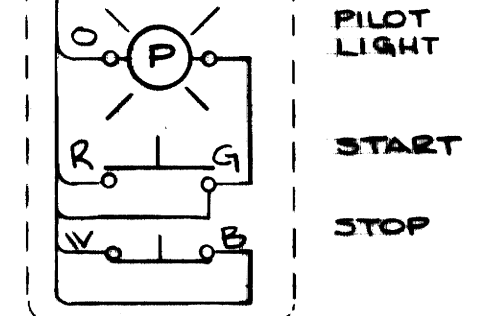
LOCATED ON MASTER BOILER CONTROL PANEL

CIRCUIT BREAKER IN MCC-4

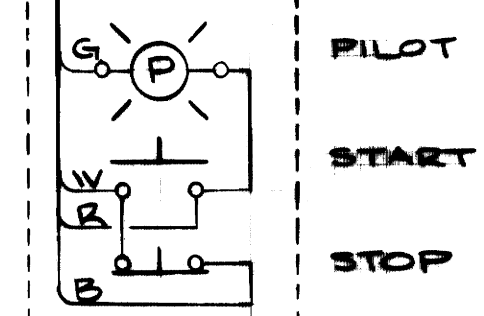


STARTER SUPPLIED BY STARTER MANUFACTURER TO BE MOUNTED ON SIDE OF BOILER FACE PANEL

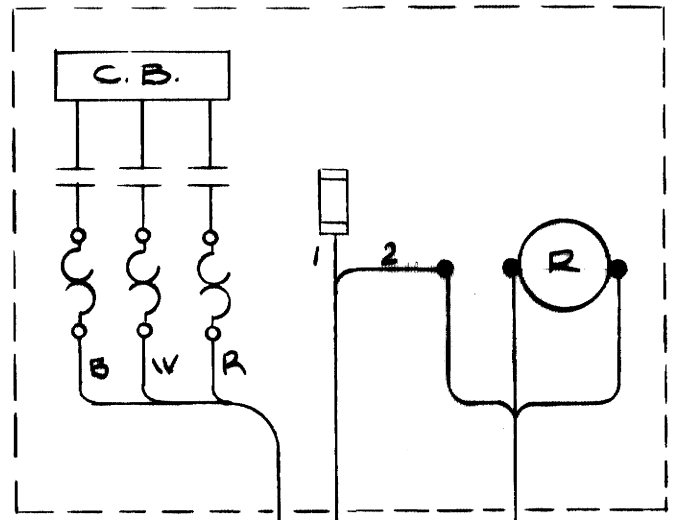
LOCATED ON BOILER FACE PANEL



LOCATED ON BOILER FACE PANEL



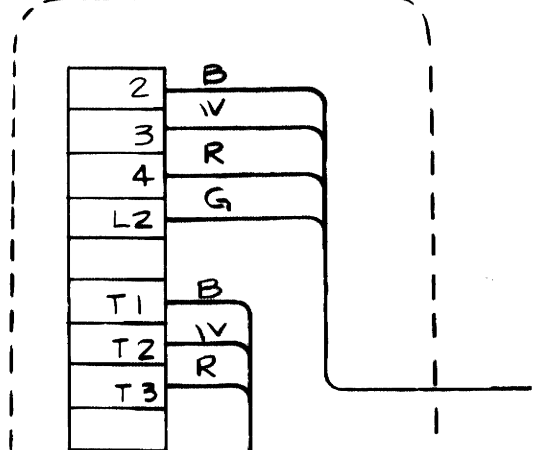
STARTER EXISTING IN MCC-2 LOCATED IN BASEMENT



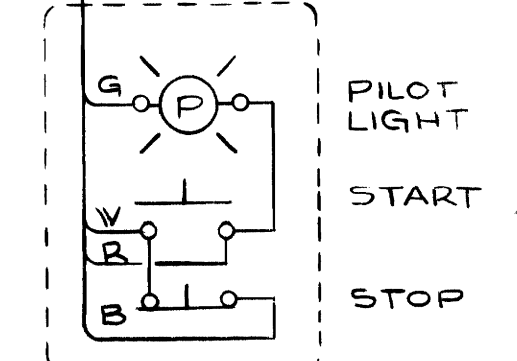
NEW 60 HP MOTOR WIRED TO EXISTING STARTER

TO ANNUNCIATOR IN NEW MASTER CONTROL PANEL

STARTER MOUNTED ON NORTH WALL OF MEZZANINE FLOOR



TO MOTOR



LOCATED ON MASTER BOILER CONTROL PANEL

MOTOR NO.	NAME	WIRE NO.	LOCATION OF MOTOR
M 3	BOILER FEED WATER PUMP	ADD PREFIX 7 TO WIRE NOS SHOWN	NORTH SIDE NEW ADDITION 1ST FLOOR
M 9	CONDENSATE TRANSFER PUMP	ADD PREFIX 8 TO WIRE NOS SHOWN	EAST END OF FIRST FLOOR
M 10	CONDENSATE TRANSFER PUMP	ADD PREFIX 9 TO WIRE NOS SHOWN	EAST END OF FIRST FLOOR

MOTOR NO.	NAME	WIRE NO.	LOCATION OF MOTOR
M 1	#3 BOILER DRAFT FAN MOTOR	ADD PREFIX 2 TO WIRE NOS SHOWN	ON MEZZANINE FLOOR OVER FRONT OF BOILER
M 2	#4 BOILER DRAFT FAN MOTOR	ADD PREFIX 3 TO WIRE NOS SHOWN	ON MEZZANINE FLOOR OVER FRONT OF BOILER

MOTOR NO.	NAME	LOCATION OF MOTOR
M 4	ROOF EXHAUST FAN MOTOR	IN ROOF OVER FUTURE BOILER NO. 5
M 5	ROOF EXHAUST FAN MOTOR	IN ROOF OVER BOILER NO. 4
M 6	ROOF EXHAUST FAN MOTOR	IN ROOF OVER BOILER NO. 3

AS PER DRAWING REVISIONS HAVE BEEN MADE TO THIS DRAWING BY GFS DATE 1-10-72 NO. REVISIONS



ADDITIONS & RENOVATIONS  
HEATING & COOLING PLANT - A. B. CHANDLER MEDICAL CENTER  
UNIVERSITY OF KENTUCKY LEXINGTON, KENTUCKY

DRAWN BY M.P.	MOTOR CONTROL DETAILS	DATE 5/28/70
TRACED BY N.G.	MASON & HANGER-SILAS MASON CO., INC. 1500 W. MAIN ST. LEXINGTON, KENTUCKY	SCALE AS NOTED
CHECKED BY T.W.W.	COMMONWEALTH OF KENTUCKY DEPARTMENT OF FINANCE DIVISION OF ENGINEERING FRANKFORT, KENTUCKY	SPEC. NO. DRAWING NO. E-17

APPROVED BY *C.J. Meehan* DATE 5-28  
APPROVED BY *W.T. McConnel* DATE 6-1-70  
DIRECTOR, DIVISION OF ENGINEERING