

DELAWARE COUNTY, OHIO

OLENTANGY ENVIRONMENTAL CONTROL CENTER

CONTRACT "S 73-1"

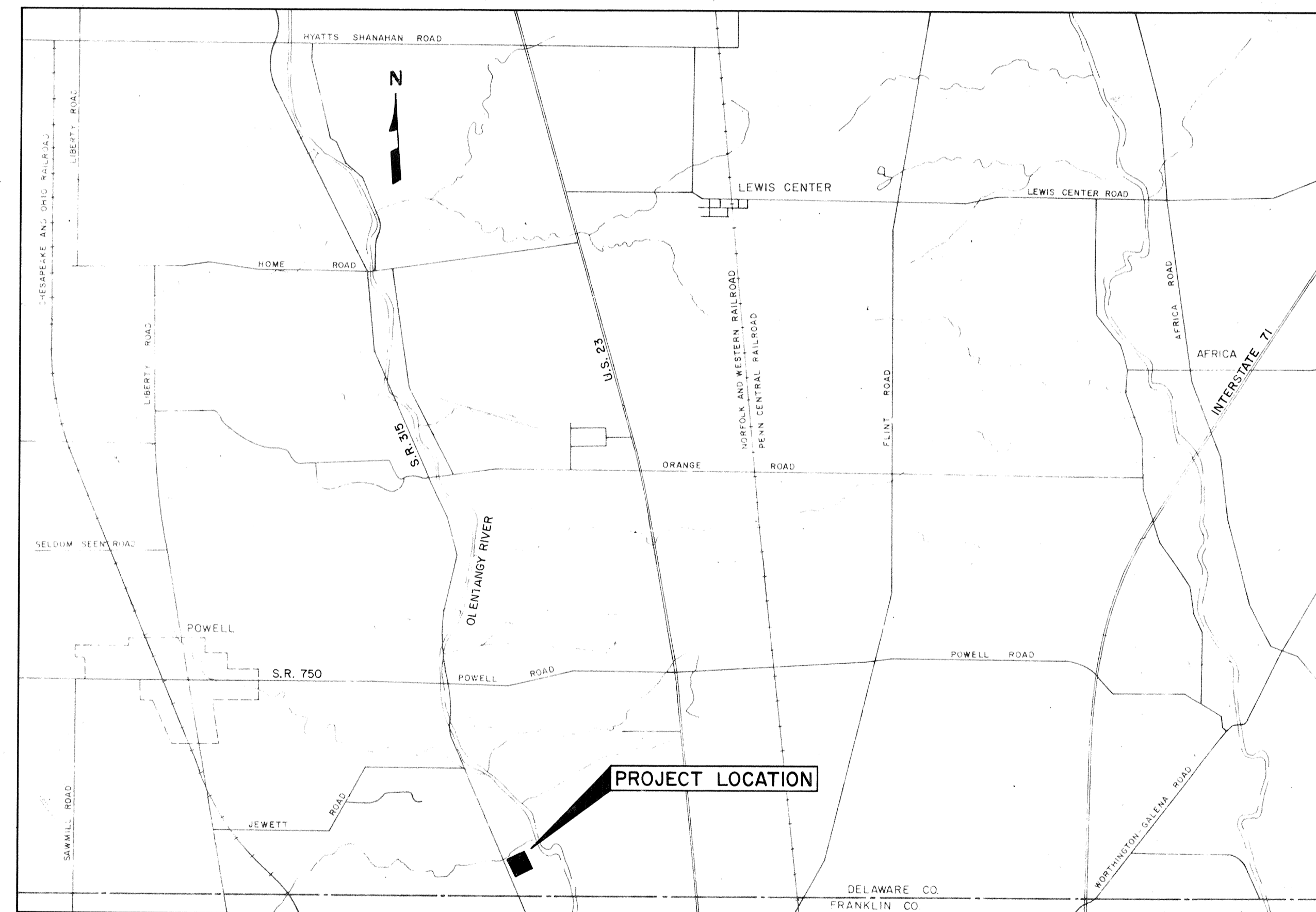
COUNTY STAFF

FRED L. STULTS
DOROTHY CONANT
HENRY E. SHAW
DAVID R. THOMAS
MADGE CONKLIN
TOM ELLIOT
GARY W. GILBERT

COUNTY ENGINEER
COUNTY RECORDER
PROSECUTING ATTORNEY
COUNTY AUDITOR
COUNTY TREASURER
DIRECTOR PLANNING
COMMISSION
ASST. SANITARY ENGINEER

BOARD OF COUNTY COMMISSIONERS

DEAN MILLER
JIM WHITNEY
KENNETH REED



VICINITY MAP
Scale: 1" = 3000'

BURGESS AND NIPLE, LIMITED
CONSULTING ENGINEERS
COLUMBUS, OHIO

JUNE 1973
REVISED APRIL, 1975

APPROVED THIS 30 DAY OF JULY, 1973

Fred L. Stults
Fred L. Stults, Delaware County Sanitary Engineer

ELECTRICAL SYMBOLS

	WALL SWITCH
	3 WAY WALL SWITCH
	4 WAY WALL SWITCH
	MANUAL MOTOR STARTER
	SWITCH & PILOTLIGHT
	VARIABLE SPEED WALL SWITCH
	DUPLEX RECEPTACLE
	220 VOLT RECEPTACLE
	TWISTLOCK RECEPTACLE
	CLOCK RECEPTACLE
	THERMOSTAT
	WIRED JUNCTION
	JUNCTION BOX
	TELEPHONE OUTLET
	DISCONNECT SWITCH
	SINGLE PHASE MOTOR
	THREE PHASE MOTOR
	CIRCUIT BREAKER
	SPECIAL DEVICE
	PUSHBUTTON STATION
	LIGHTING PANEL
	LIGHTING FIXTURE - CEILING
	LIGHTING FIXTURE - WALL MOUNTED
	CONDUIT - EXPOSED
	CONDUIT - CONCEALED
	ELECTRICAL CIRCUIT

PLUMBING SYMBOLS

	GATE VALVE
	NEEDLE VALVE
	SOLENOID VALVE
	PRESSURE RELIEF VALVE
	FLOAT VALVE
	GAS PLUG VALVE
	BACKPRESSURE VALVE
	CHECK VALVE
	PRESSURE REDUCING VALVE
	GLOBE VALVE
	TRAP
	UNION
	BALL VALVE

ABBREVIATIONS

A.B.	ANCHOR BOLT	L.S.	LOW SERVICE
A.C.	ASBESTOS-CEMENT	LTG.	LIGHTING
A.D.J.	ADJUSTABLE	MAX.	MAXIMUM
A.L.T.	ALTERNATE	M.C.C.	MOTOR CONTROL CENTER
ALUM.	ALUMINUM	M.G.D.	MILLION GALLONS DAILY
@	AT	M.H.	MAN HOLE
B.	BEAM	MIN.	MINIMUM
BKR.	BREAKER	MK.	MARK
BLDG.	BUILDING	M.S.	MOTOR STARTER
BOT.	BOTTOM	MT.	MOUNT
BRG.	BEARING	N.F.	NEAR FACE
BT.	BENT	N.S.	NEAR SIDE
C.	CONDUIT	N.W.L.	NORMAL WATER LEVEL
C.F.M.	CUBIC FEET PER MINUTE	NO.	NUMBER
C.I.P.	CAST IRON PIPE	O.F.	OUTSIDE FACE
C.	CENTERLINE	OP.G.	OPENING
C/C.	CENTERLINE TO CENTERLINE	OPP.	OPPOSITE
CKT.	CIRCUIT	OZ.	OUNCE
CL.	CLEAR	R.	PLATE OR PROPERTY LINE
C.O.	CLEAN OUT	PNL.	PANEL
COL.	COLUMN	POL.	POLISHED
CONC.	CONCRETE	P.S.I.	POUNDS PER SQUARE INCH
CONST.JT.	CONSTRUCTION JOINT	PVC.	POLYVINYL CHLORIDE
CONT.	CONTINUOUS	QUAN.	QUANTITY
C.Y.	CUBIC YARD	R.	RADIUS OR RISER
DIA.	DIAMETER	R.A.	RETURN AIR
DIM.	DIMENSION	R.D.	ROOF DRAIN
D.I.P.	DUCTILE IRON PIPE	REINF.	REINFORCING
DWG.	DRAWING	REQ'D.	REQUIRED
E.A.	EACH	SCHED.	SCHEDULE
E.F.	EACH FACE	SECT.	SECTION
EFF.	EFFLUENT	SHT.	SHEET
EL.	ELEVATION	S.P.	SEWER PIPE
E.W.	EACH WAY	SPC.	SPACES
EXIST.	EXISTING	SPG.	SPACING
EXP.JT.	EXPANSION JOINT	SQ.	SQUARE
F.A.	FRESH AIR	S.S.	SOLID SLAB
FB.	FREEBOARD	ST.	STRAIGHT
F.D.	FLOOR DRAIN	STD.	STANDARD
FDN.	FOUNDATION	STIR.	STIRRUP
F.F.	FAR FACE	STL.	STEEL
FIN.	FINISHED	S.STL.	STAINLESS STEEL
FL.	FLOOR	STR.	STRUCTURAL
FT.	FEET	SW.	SWITCH
FTG.	FOOTING	S.Y.	SQUARE YARD
GA.	GAUGE	SYM.	SYMMETRICAL
GAL.	GALLON	T.	TOP OR TREAD
GALV.	GALVANIZED	T.&B.	TOP AND BOTTOM
G.P.M.	GALLONS PER MINUTE	T.&G.	TONGUE AND GROOVE
GRD.	GROUND	TYP.	TYPICAL
HOL.MET.	HOLLOW METAL	URN.	URINAL
HORIZ.	HORIZONTAL	VERT.	VERTICAL
H.P.	HORSE POWER	W/	WITH
H.S.	HIGH SERVICE	W/O	WITHOUT
I.F.	INSIDE FACE	W.C.	WATER CLOSET
INF.	INFLUENT	W.H.	WATER HEATER
INT.	INTERIOR	WF	WIDE FLANGE
INV.	INVERT	WP	WEATHER PROOF
J.B.	JUNCTION BOX	X'FMR.	TRANSFORMER
LB.	POUND	XP.	EXPLOSION PROOF
LG.	LENGTH		

GENERAL SYMBOLS

	CUT CONCRETE
	FILL CONCRETE
	CONCRETE BLOCK
	BRICK
	CUT STONE
	GLAZED BRICK OR STRUCTURAL GLAZED TILE
	NEW PAVEMENT
	ASPHALTIC CONCRETE SIDEWALK
	GRAVEL SIDEWALK
	NEW PIPING OR CONTOURS
	EXISTING CONTOURS
	EXISTING PIPING
	FLANGED JOINT
	MECHANICAL JOINT
	BELL & SPIGOT JOINT
	CAST IRON SLEEVE COUPLING
	GATE VALVE
	CHECK VALVE
	BUTTERFLY VALVE
	PLUG VALVE
	WALL PIPE; FLANGE, MECHANICAL JOINT
	WALL SLEEVE
	SCREWED PIPING
	FIRE HYDRANT
	TEST HOLE
	TEST PIT
	MAJOR SECTION DESIGNATION
	PARTIAL SECTION DESIGNATION SHOWN ON SAME SHEET WHERE CUT

SECTION DESIGNATION
 SHEET ON WHICH SECTION IS CUT
 SHEET ON WHICH SECTION IS SHOWN

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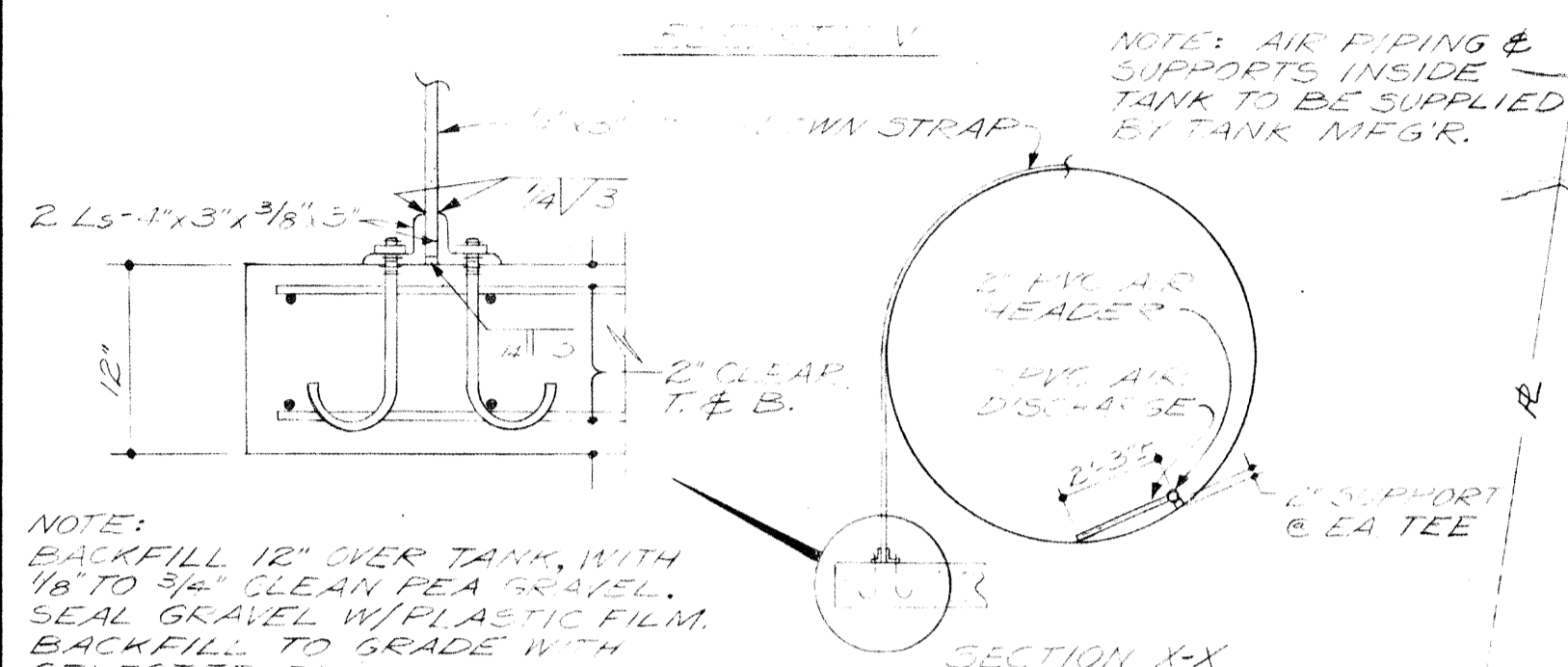
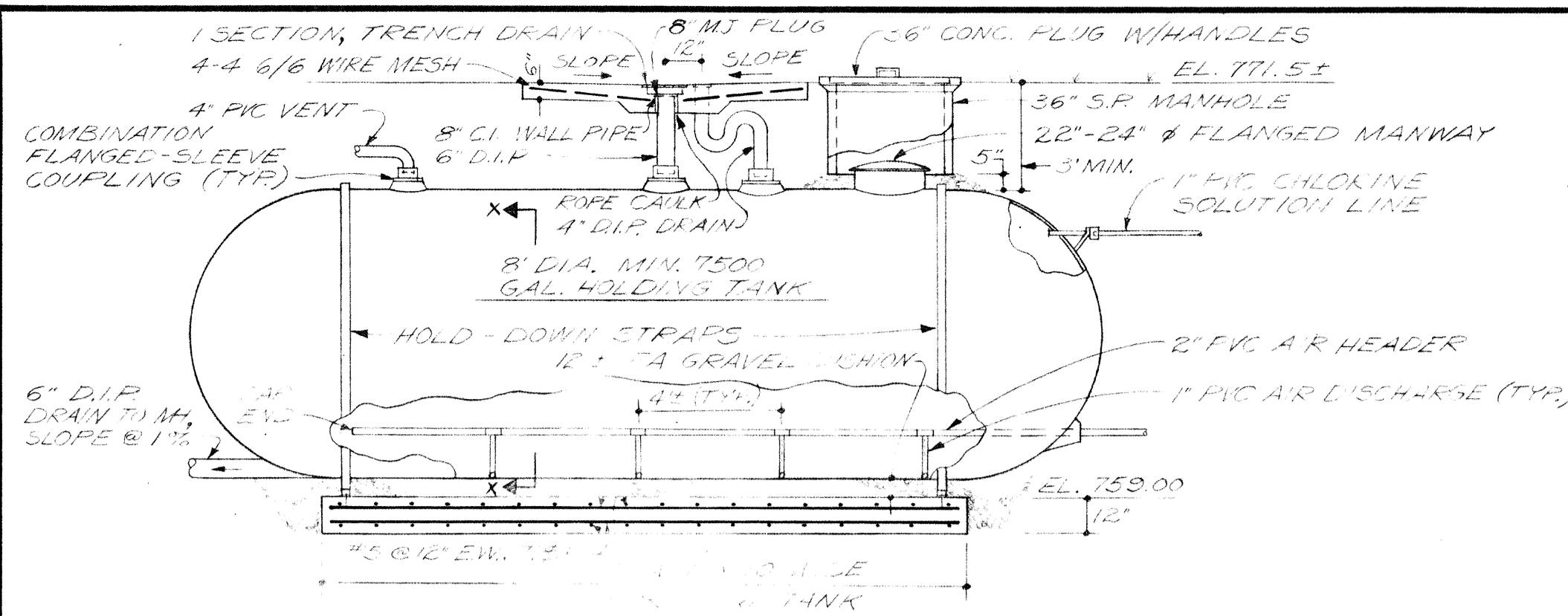
GENERAL NOTE

THE LOCATION OF UTILITIES AND STRUCTURES, BOTH SURFACE AND SUBSURFACE ARE SHOWN ON THESE PLANS FROM DATA AVAILABLE AT TIME OF SURVEY AND ARE NOT NECESSARILY COMPLETE OR CORRECT. THE EXACT LOCATION AND PROTECTION OF UTILITIES AND STRUCTURES IS THE RESPONSIBILITY OF THE CONTRACTOR. DURING CONSTRUCTION, THE CONTRACTOR SHALL USE DUE DILIGENCE IN PROTECTING FROM DAMAGE ALL EXISTING UTILITIES AND STRUCTURES WHETHER SHOWN IN THESE PLANS OR NOT. IF DAMAGE IS CAUSED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR OF THE SAME IN ACCORDANCE WITH THE DIRECTIONS OF THE ENGINEER AND FOR ANY RESULTING CONTINGENT DAMAGE.

BURGESS & NIPLÉ, LIMITED CONSULTING ENGINEERS
 COLUMBUS, OHIO

**DELAWARE COUNTY, OHIO
 OLENTANGY ENVIRONMENTAL CONTROL CENTER
 INDEX, SYMBOLS & ABBREVIATIONS**

REVISIONS	DRAWN BY <i>H.S.</i>	CHECKED BY
APRIL, 1975	TRACED BY <i>RRP</i>	APPROVED BY
JUNE, 1973	SCALE: NONE	SHEET 2 OF 75



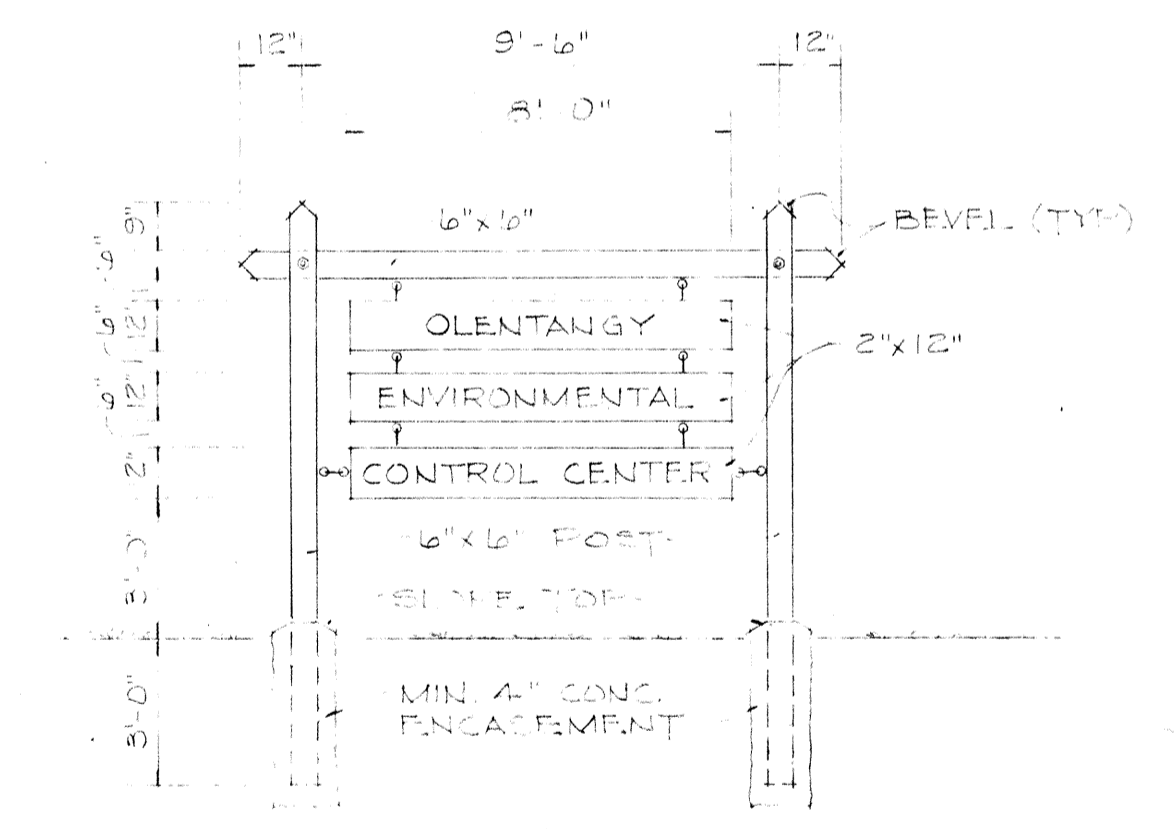
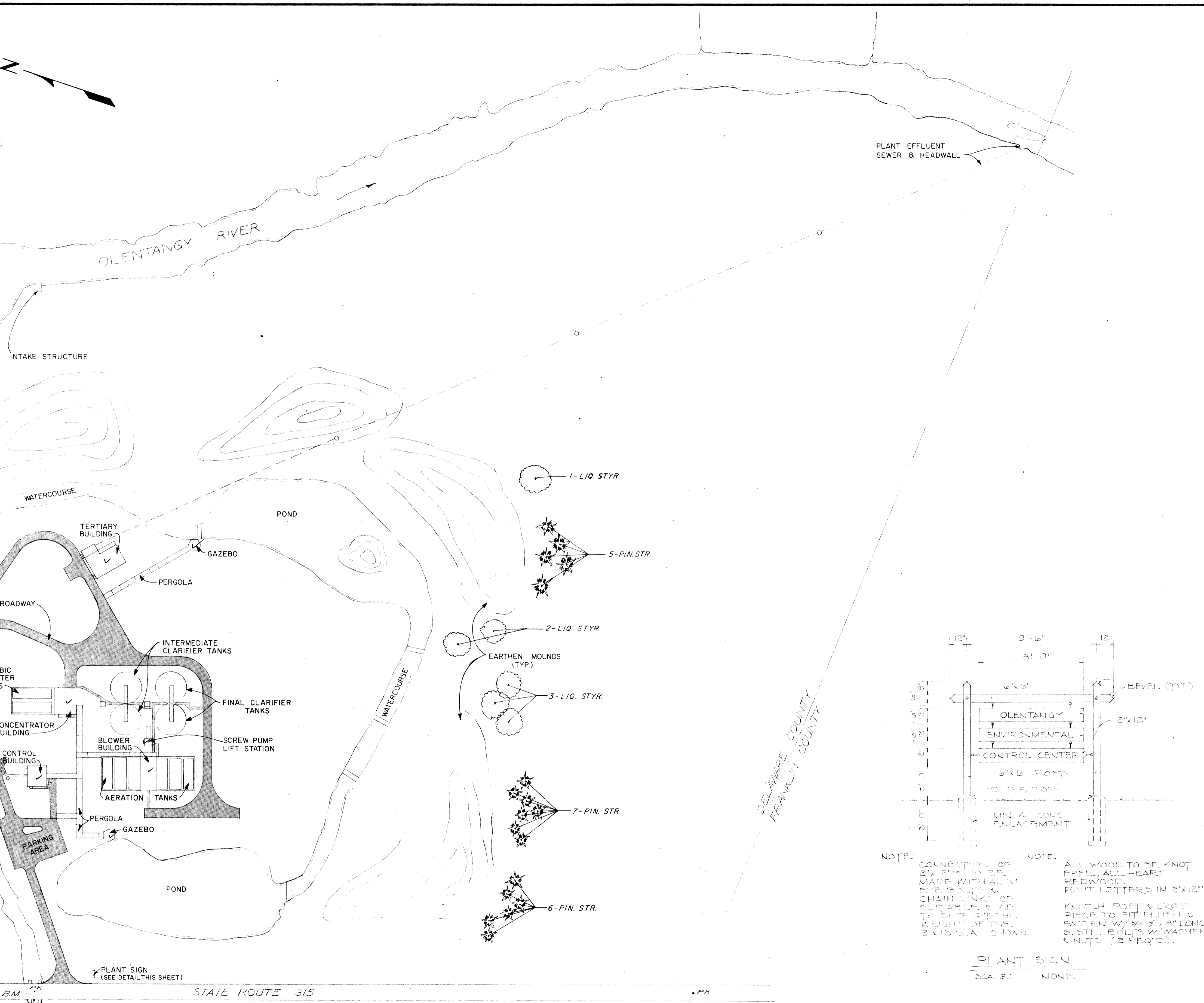
NOTE: AIR PIPING & SUPPORTS INSIDE TANK TO BE SUPPLIED BY TANK MFG'R.

NOTE: BACKFILL 12" OVER TANK, WITH 1/8" TO 3/4" CLEAN FEA GRAVEL. SEAL GRAVEL W/PLASTIC FILM. BACKFILL TO GRADE WITH SELECTED FILL.

DRAIN SHALL BE 6" FULL DRAIN CONNECTION AS RECOMMENDED BY TANK MANUFACTURER.

HOLDING TANK DETAILS
SCALE: NONE

BENCH MARK - CHISEL MARK IN NORTH WINGWALL OF CONCRETE CULVERT ON WEST SIDE OF S.R. 315 EL. 778.25



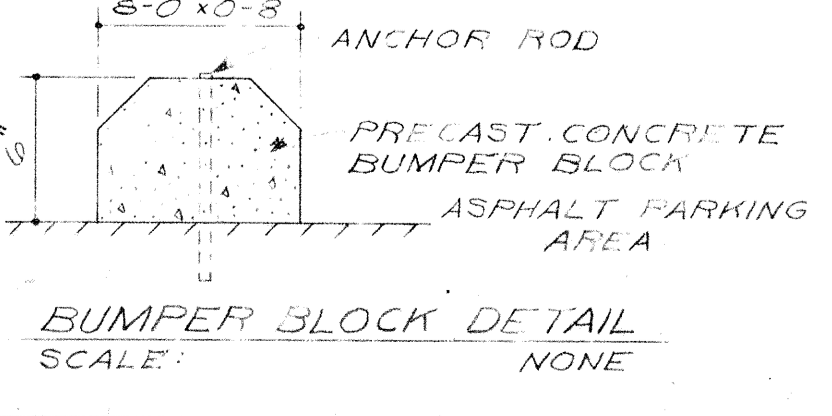
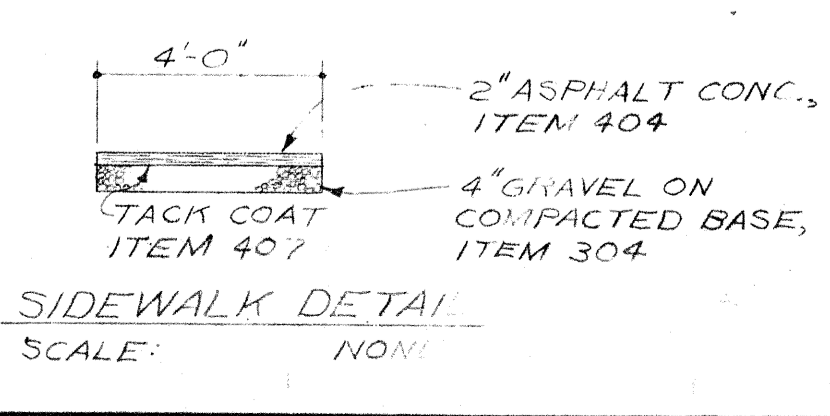
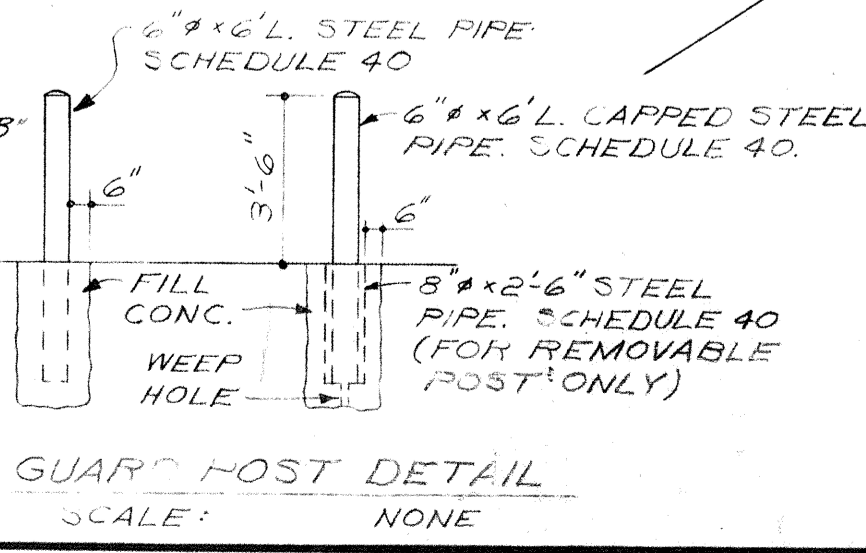
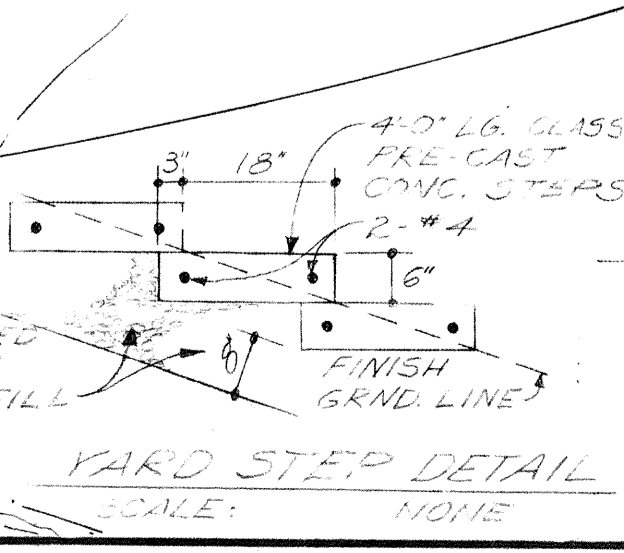
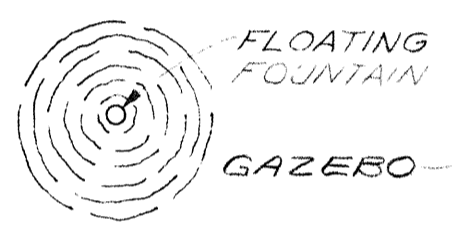
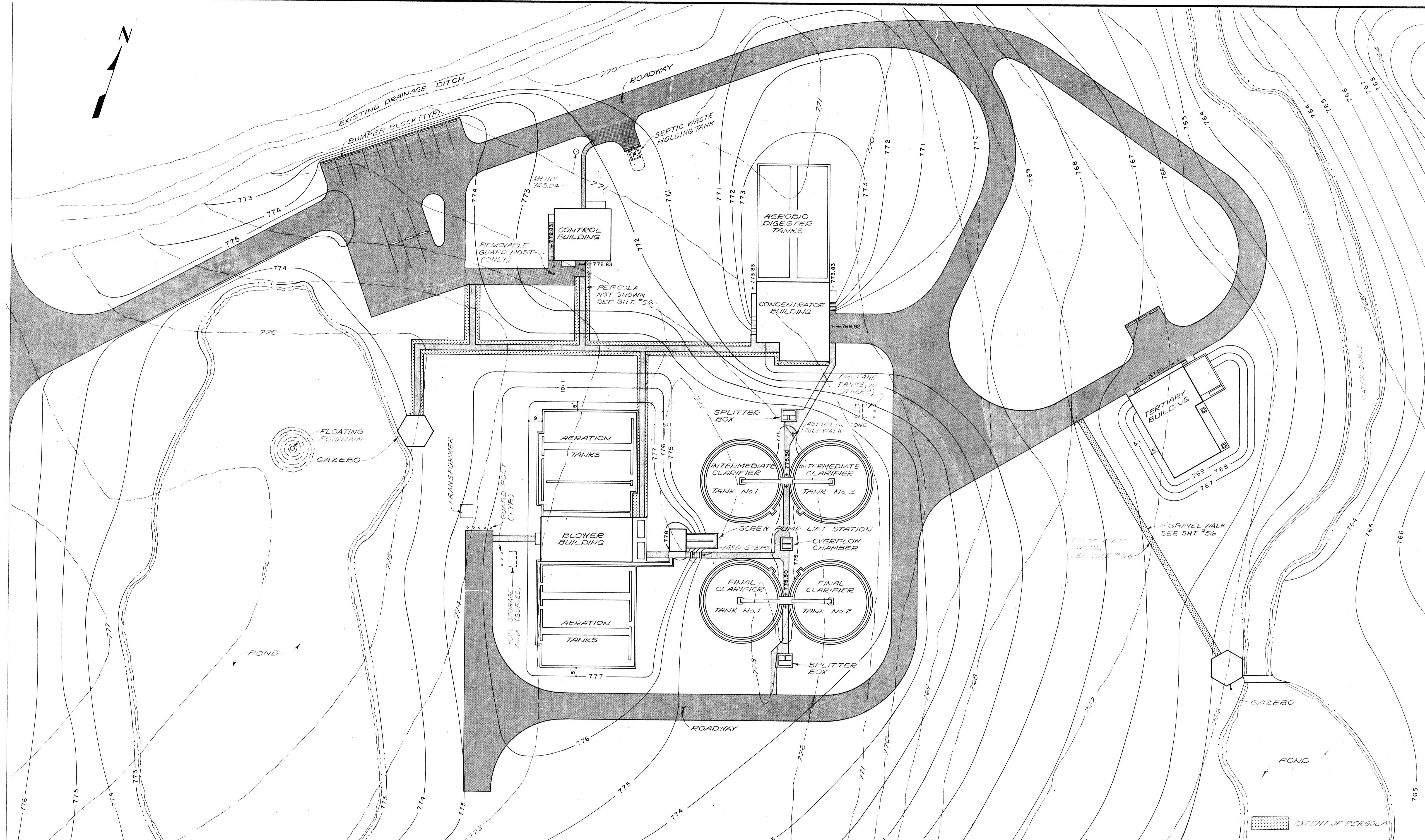
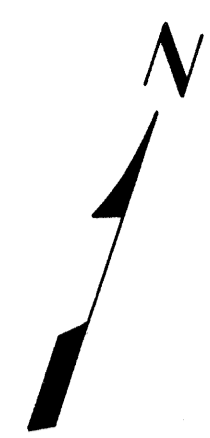
NOTE: CONNECTION OF 2"x12"s TO BE MADE WITH ALUM. BOLT & NUTS & CHAIN LINKS OF SUPPLIER. 6" RIS. TO SUPPLY THE WEIGHT OF THE 2"x12"s AS SHOWN.

NOTE: ALL WOOD TO BE KNOT FREE, ALL HEART REDWOOD. JOINT LETTERS IN 2"x12"s. KNOTH. POST & CROSS PIECE TO FIT HULLS & FASTEN W/ 3/4" x 8" LONG S. STEEL BOLTS W/ WASHERS & NUTS. (2 PER JOINT).

PLANT SIGN
SCALE: NONE

BURGESS & NIPLE, LIMITED		CONSULTING ENGINEERS
COLUMBUS, OHIO		
DELAWARE COUNTY, OHIO		
OLENTANGY ENVIRONMENTAL CONTROL CENTER		
SITE PLAN		
REVISIONS	DRAWN BY <i>DMS</i>	CHECKED BY
APRIL, 1975	TRACED BY <i>RRP</i>	APPROVED BY
JUNE, 1973	SCALE: 1" = 100'	SHEET 3 OF 75

STATE ROUTE 315

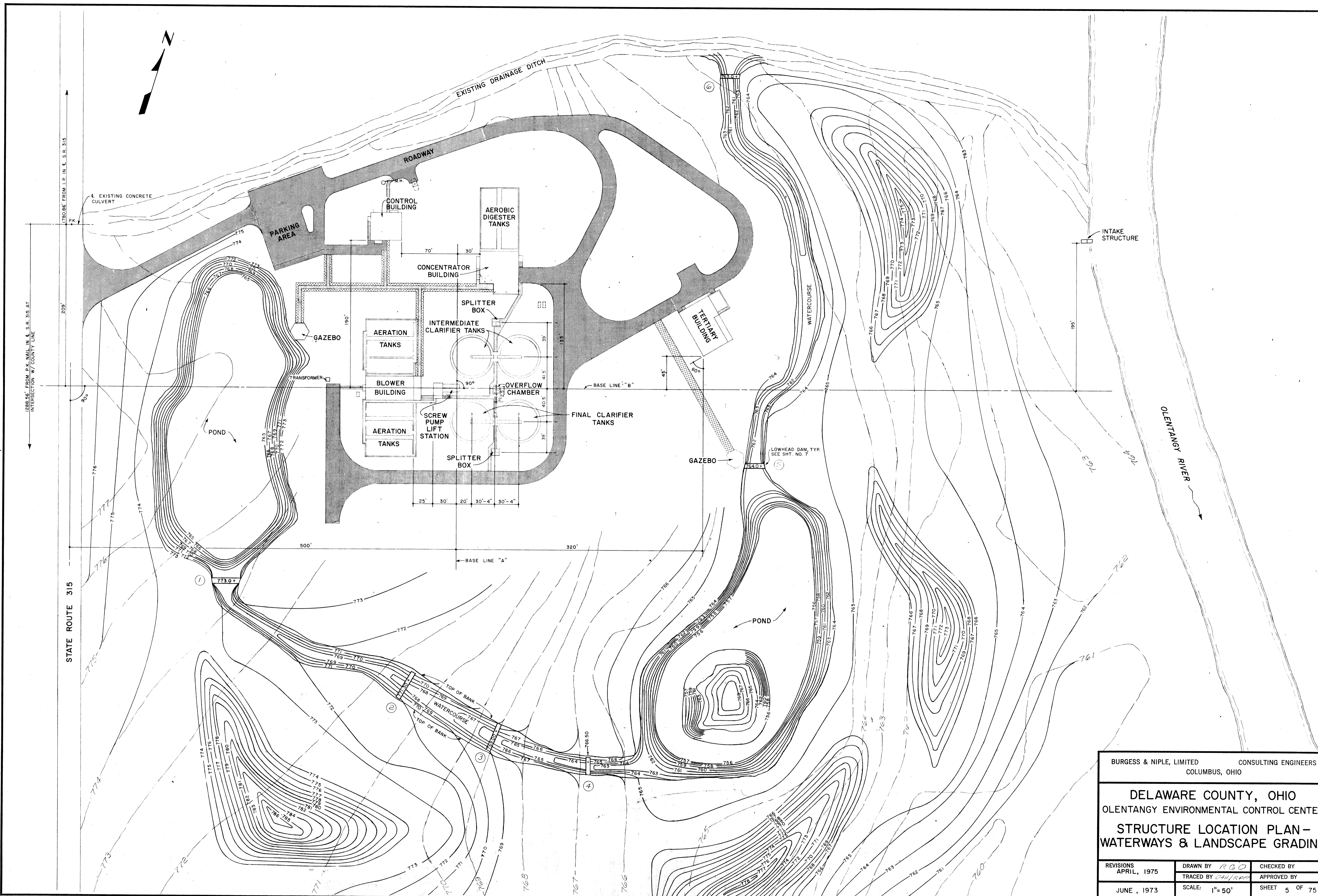


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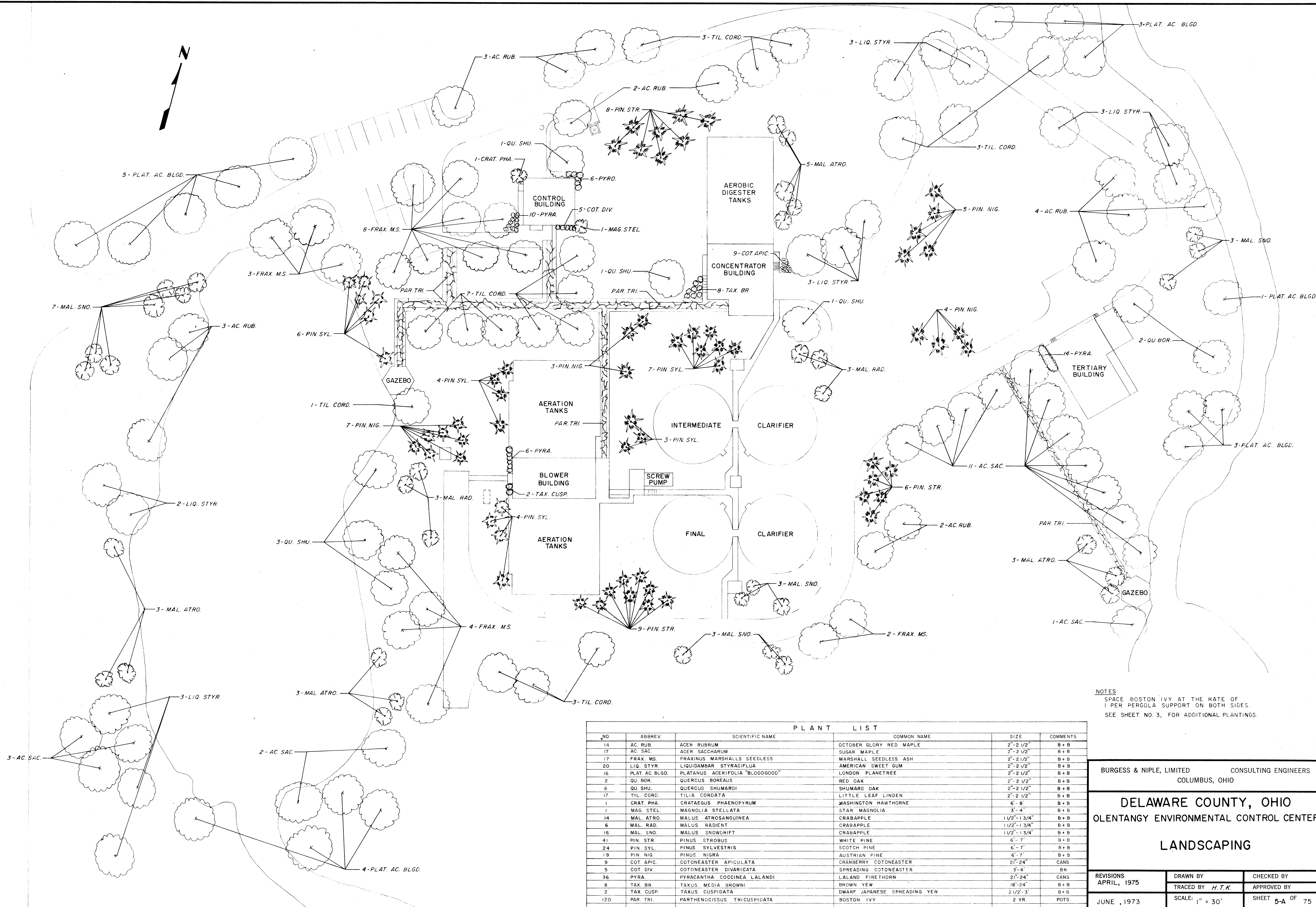
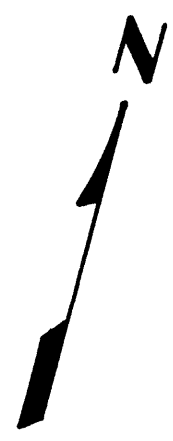
DELAWARE COUNTY, OHIO
OLENTANGY ENVIRONMENTAL CONTROL CENTER

GENERAL PLAN

REVISIONS APRIL, 1975	DRAWN BY RGO	CHECKED BY
JUNE, 1973	TRACED BY RRP	APPROVED BY
SCALE: 1" = 30'		SHEET 4 OF 75



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COLUMBUS, OHIO		
DELAWARE COUNTY, OHIO		
OLENTANGY ENVIRONMENTAL CONTROL CENTER		
STRUCTURE LOCATION PLAN -		
WATERWAYS & LANDSCAPE GRADING		
REVISIONS APRIL, 1975	DRAWN BY <i>RGD</i> TRACED BY <i>DAH/RRP</i>	CHECKED BY APPROVED BY
JUNE, 1973	SCALE: 1" = 50'	SHEET 5 OF 75



NOTES
 SPACE BOSTON IVY AT THE RATE OF
 1 PER PERGOLA SUPPORT ON BOTH SIDES.
 SEE SHEET NO. 3, FOR ADDITIONAL PLANTINGS.

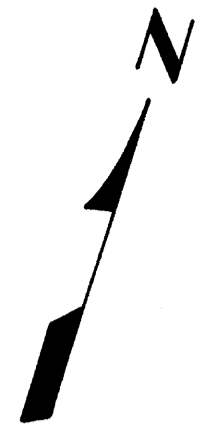
PLANT LIST					
NO.	ABBREV.	SCIENTIFIC NAME	COMMON NAME	SIZE	COMMENTS
14	AC. RUB.	ACER RUBRUM	OCTOBER GLORY RED MAPLE	2"-2 1/2"	B+B
17	AC. SAC.	ACER SACCHARUM	SUGAR MAPLE	2"-2 1/2"	B+B
17	FRAX. MS.	FRAXINUS MARSHALLS SEEDLESS	MARSHALL SEEDLESS ASH	2"-2 1/2"	B+B
20	LIQ. STYR.	LIQUIDAMBAR STYRACIFLUA	AMERICAN SWEET GUM	2"-2 1/2"	B+B
16	PLAT. AC. BLDG.	PLATANUS ACERIFOLIA "BLOODGOOD"	LONDON PLANETREE	2"-2 1/2"	B+B
2	QU. BOR.	QUERCUS BOREAUS	RED OAK	2"-2 1/2"	B+B
6	QU. SHU.	QUERCUS SHUMARDI	SHUMARD OAK	2"-2 1/2"	B+B
17	TIL. CORD.	TILIA CORDATA	LITTLE LEAF LINDEN	2"-2 1/2"	B+B
1	CRAT. PHA.	CRATAEGUS PHAENOPYRUM	WASHINGTON HAWTHORNE	6'-8'	B+B
1	MAG. STEL.	MAGNOLIA STELLATA	STAR MAGNOLIA	3'-4'	B+B
14	MAL. ATRO.	MALUS ATROSANGUINEA	CRABAPPLE	1 1/2"-1 3/4"	B+B
6	MAL. RAD.	MALUS RADIENT	CRABAPPLE	1 1/2"-1 3/4"	B+B
16	MAL. SNO.	MALUS SNOWDRIFT	CRABAPPLE	1 1/2"-1 3/4"	B+B
41	PIN. STR.	PINUS STROBUS	WHITE PINE	6'-7'	B+B
24	PIN. SYL.	PINUS SYLVESTRIS	SCOTCH PINE	6'-7'	B+B
19	PIN. NIG.	PINUS NIGRA	AUSTRIAN PINE	6'-7'	B+B
9	COT. APIC.	COTONEASTER APICULATA	CRANBERRY COTONEASTER	2 1/2"-2 3/4"	CANS
5	COT. DIV.	COTONEASTER DIVARICATA	SPREADING COTONEASTER	3'-4'	BR
36	PYRA.	PYRACANTHA COCCINEA LALANDI	LALAND FIRETHORN	2 1/2"-2 3/4"	CANS
8	TAX. BR.	TAXUS MEDIA BROWNII	BROWN YEW	18"-24"	B+B
2	TAX. CUSP.	TAXUS CUSPIDATA	DWARF JAPANESE SPREADING YEW	2 1/2"-3'	B+B
120	PAR. TRI.	PARTHENOCISSUS TRICUSPIDATA	BOSTON IVY	2 YR.	POTS

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 COLUMBUS, OHIO

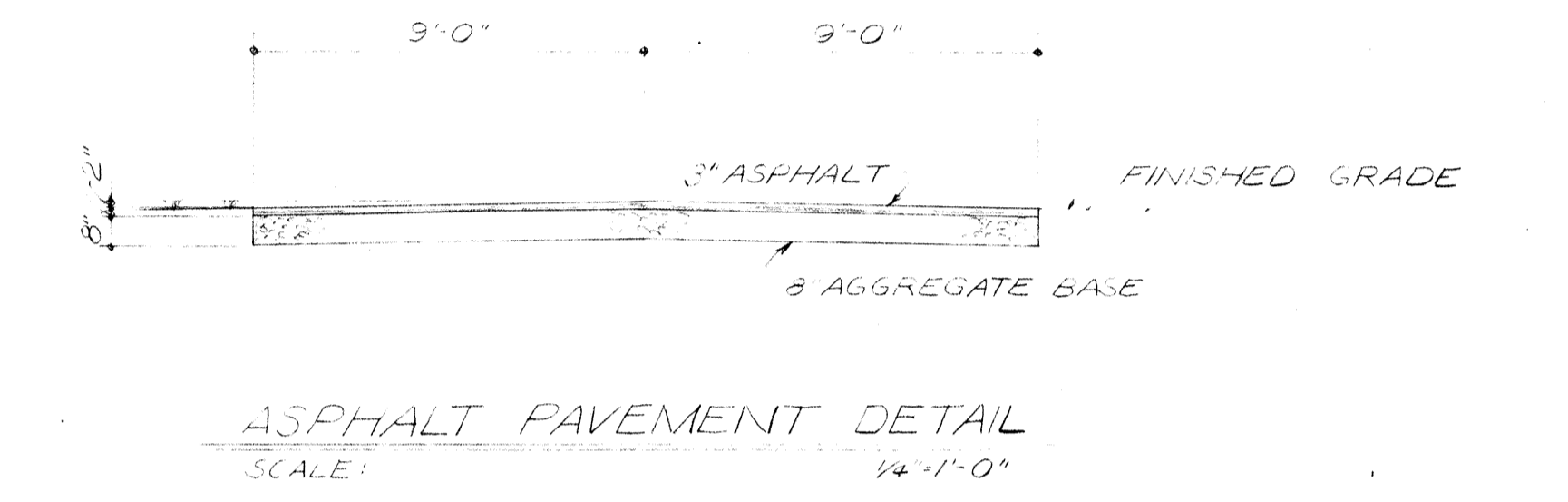
DELAWARE COUNTY, OHIO
OLENTANGY ENVIRONMENTAL CONTROL CENTER

LANDSCAPING

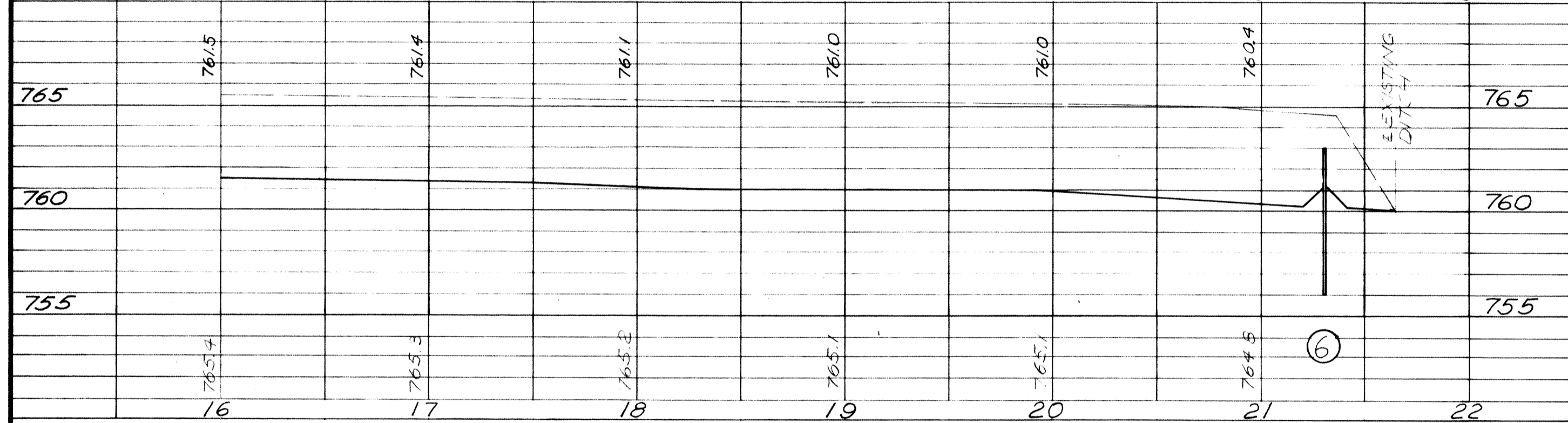
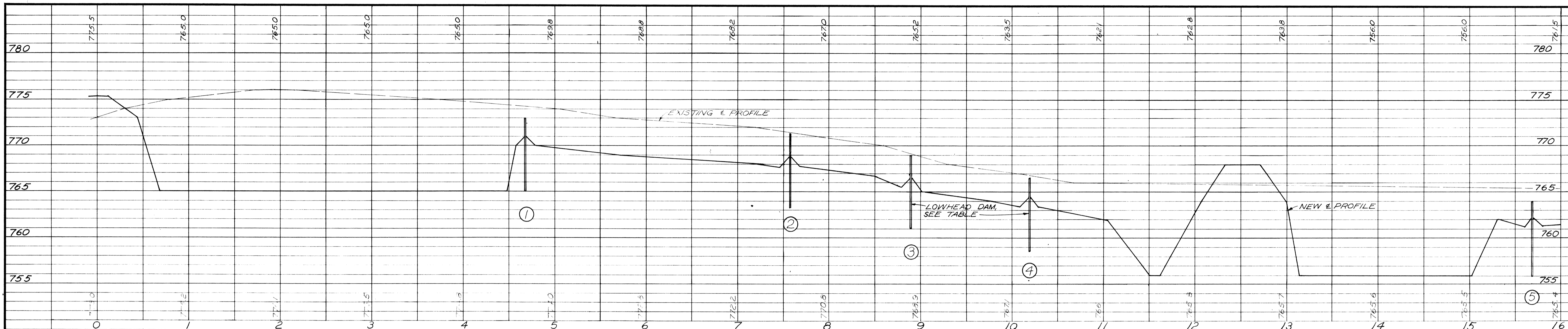
REVISIONS APRIL, 1975	DRAWN BY TRACED BY H.T.K.	CHECKED BY APPROVED BY
JUNE, 1973	SCALE: 1" = 30'	SHEET 5-A OF 75



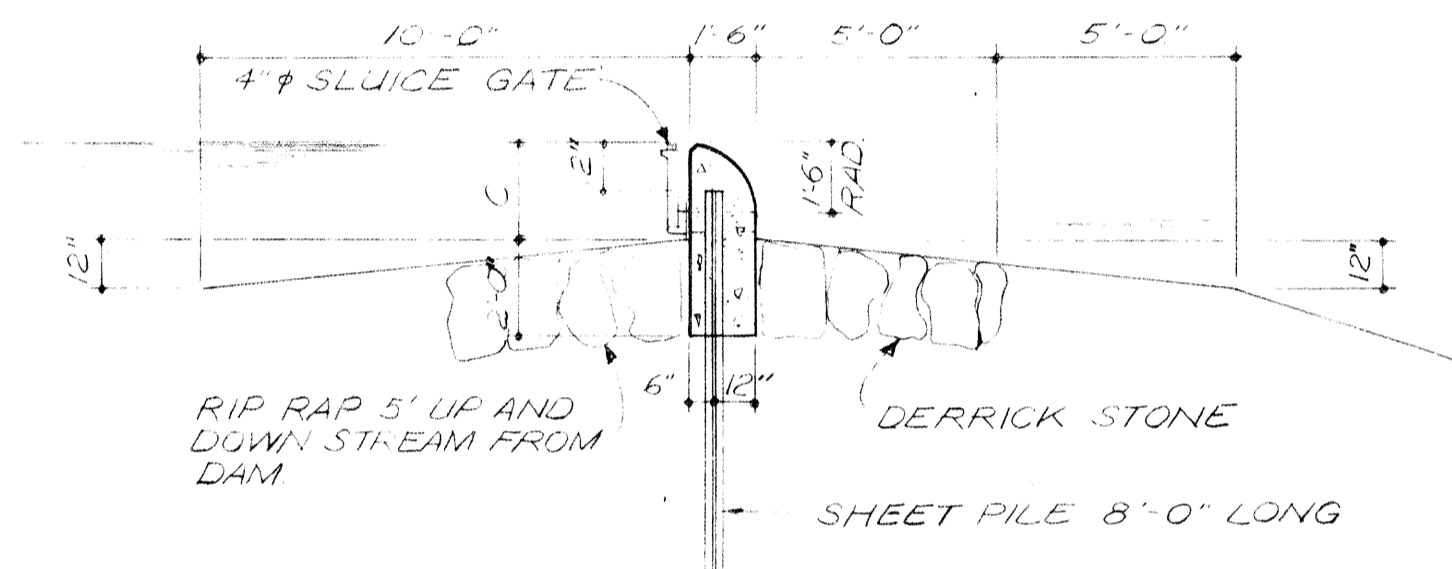
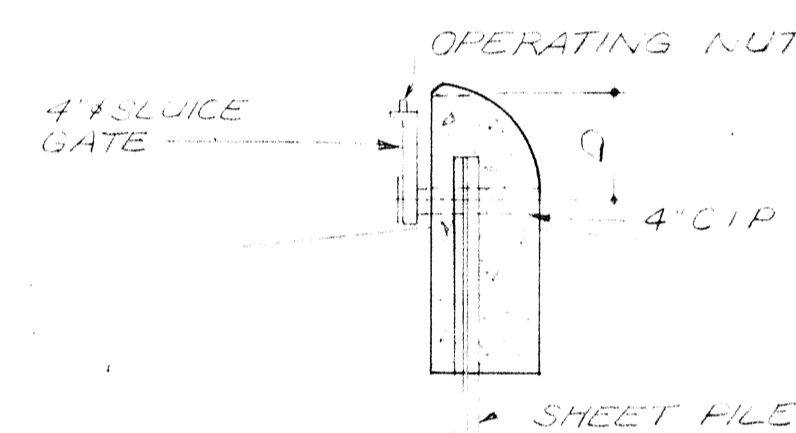
CURVE NO. 1 R=612' T=32.32' Δ=17°20' L=64.13' P.I. STA. 6+22.32	CURVE NO. 2 R=91' T=30.01' Δ=36°30' L=57.97' P.I. STA. 7+58.01	CURVE NO. 3 R=59' T=93.51' Δ=115°30' L=118.94' P.I. STA. 10+22.51
CURVE NO. 4 R=59' T=34.06' Δ=60° L=61.79' P.I. STA. 12+93.06	CURVE NO. 5 R=59' T=59' Δ=90° L=92.68' P.I. STA. 14+28.00	CURVE NO. 6 R=51' T=133.43' Δ=119°20' L=168.69' P.I. STA. 1+38.43



BURGESS & NIPLE, LIMITED		CONSULTING ENGINEERS
		COLUMBUS, OHIO
DELAWARE COUNTY, OHIO		
OLENTANGY ENVIRONMENTAL CONTROL CENTER		
LOCATION PLAN FOR		
ROADWAY & WATERWAY		
REVISIONS	DRAWN BY RGO/DAH	CHECKED BY
APRIL, 1975	TRACED BY DAH	APPROVED BY
JUNE, 1973	SCALE: 1" = 50'	SHEET 6 OF 75



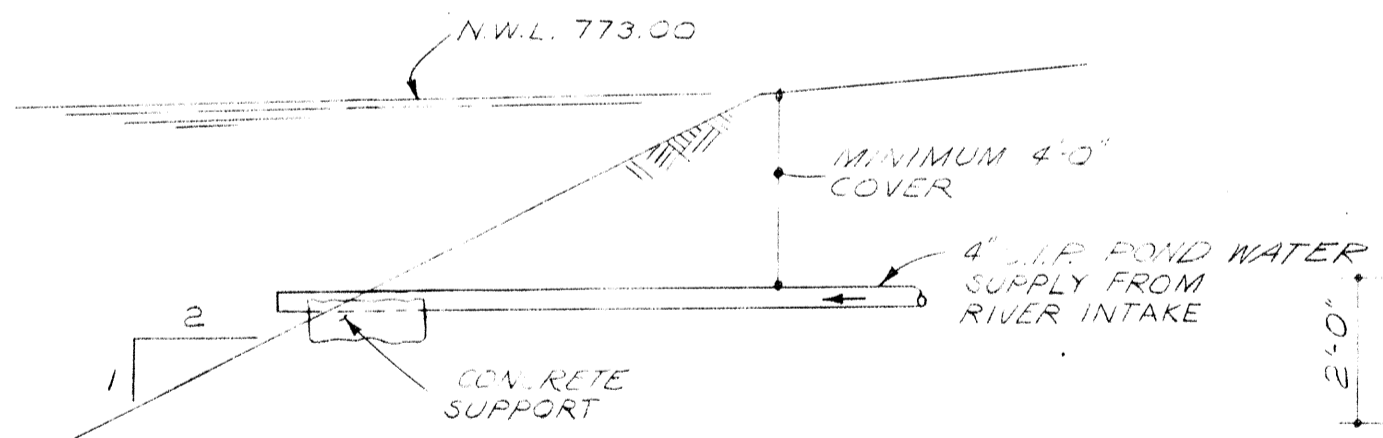
WATERWAY PROFILE
SCALE: 1" = 10' VERTICAL
1" = 50' HORIZONTAL



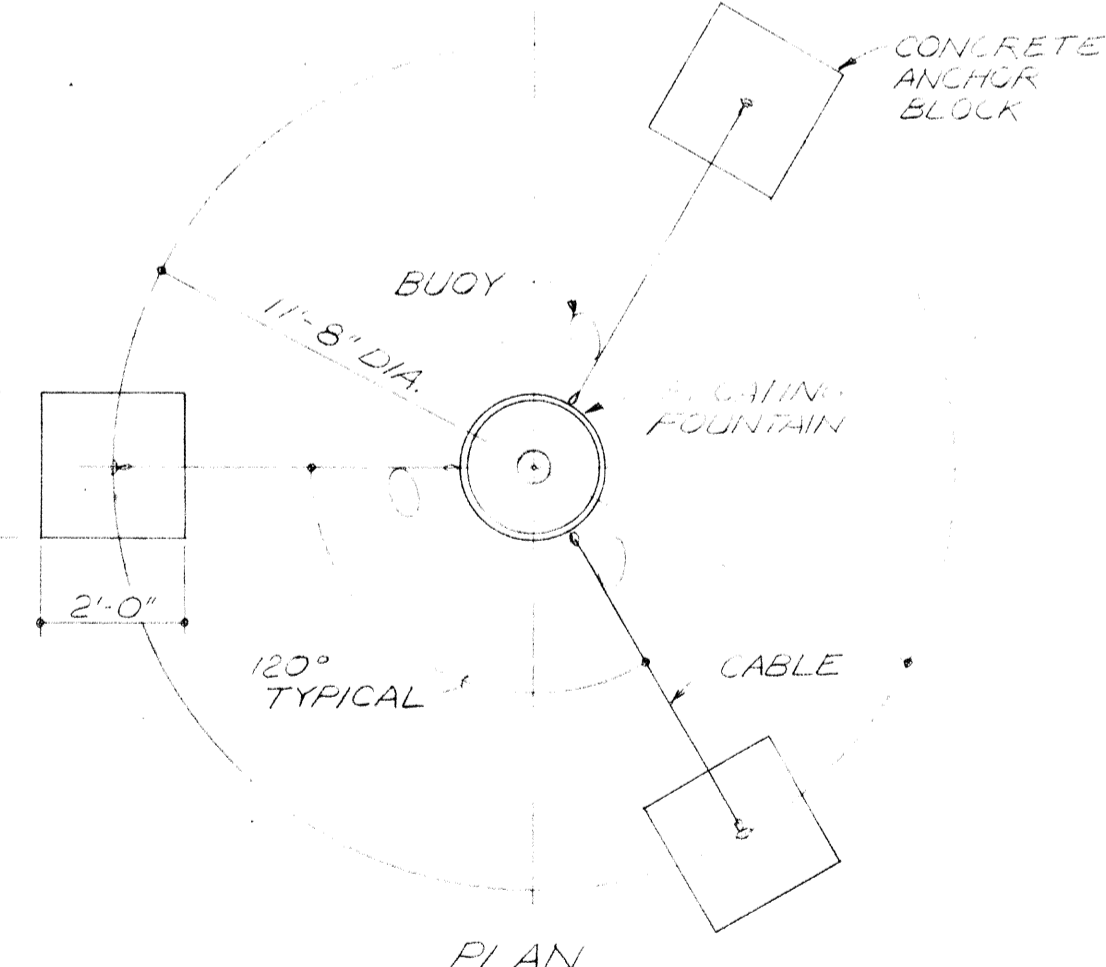
SECTION

WATERCOURSE & DRAIN DETAIL
SCALE: 1/8" = 1'-0"

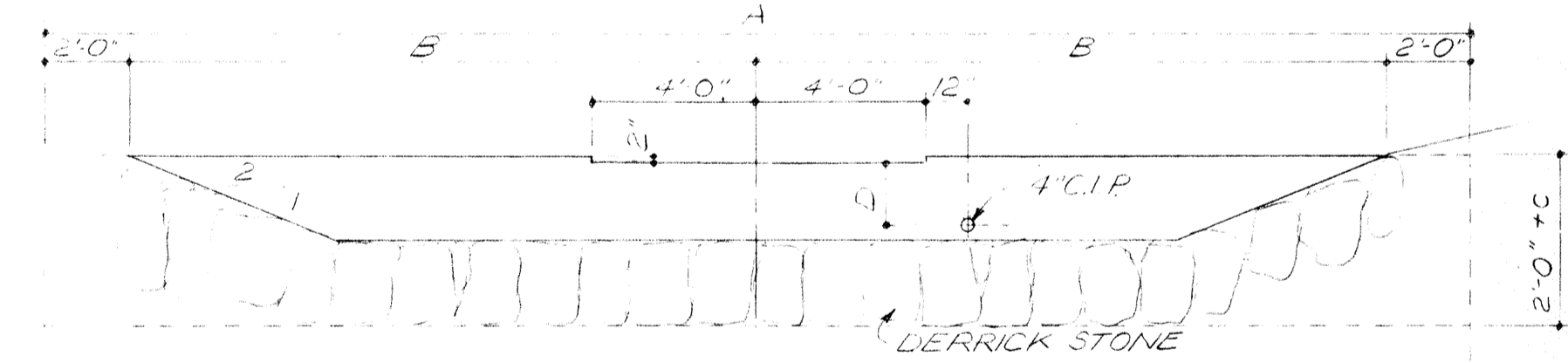
WATERCOURSE CROSS-SECTION



POND INFLUENT DETAIL
SCALE: NONE

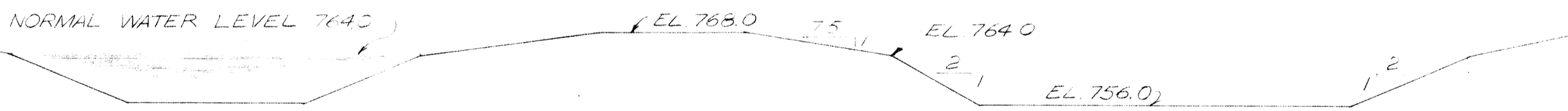


PLAN

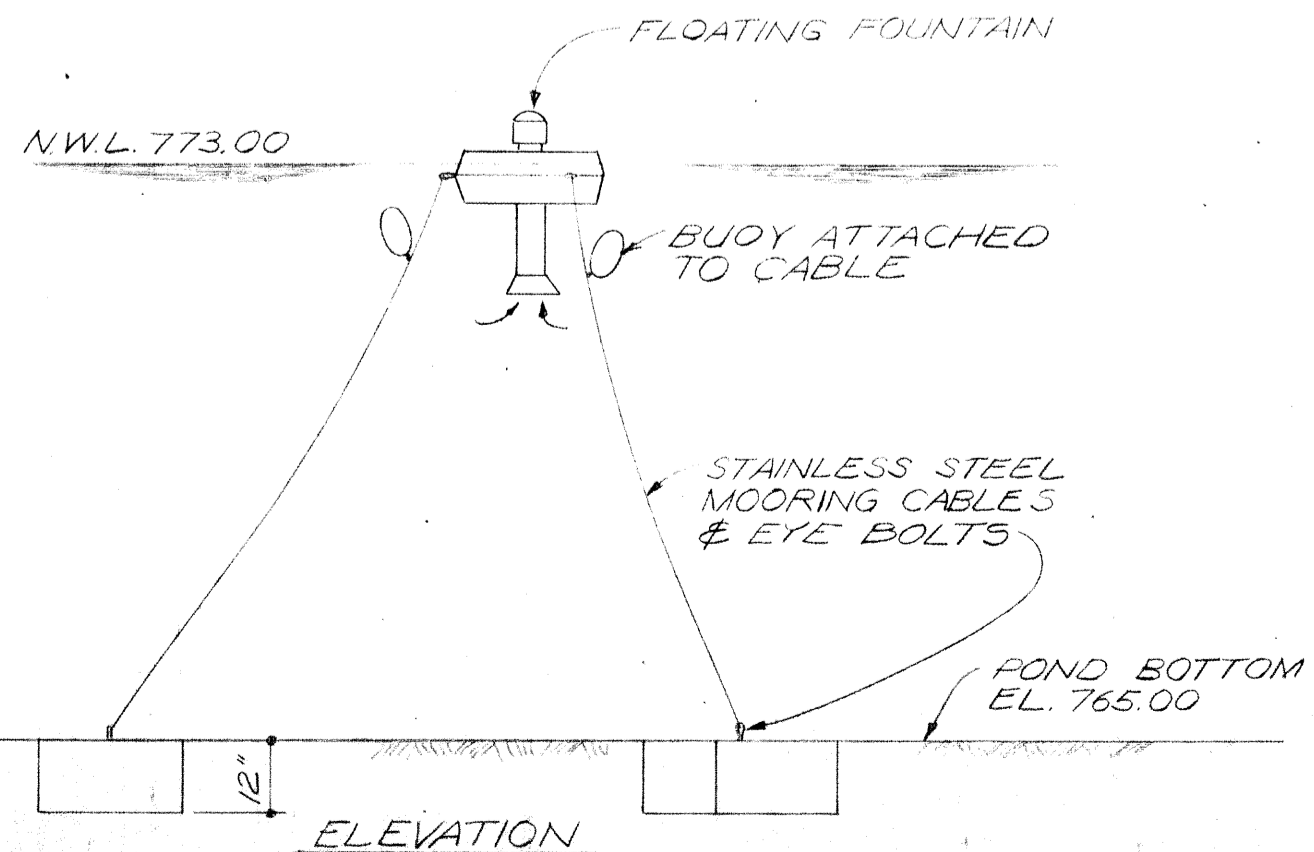


ELEVATION

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



ISLAND CROSS-SECTION
SCALE: 1" = 20'



ELEVATION

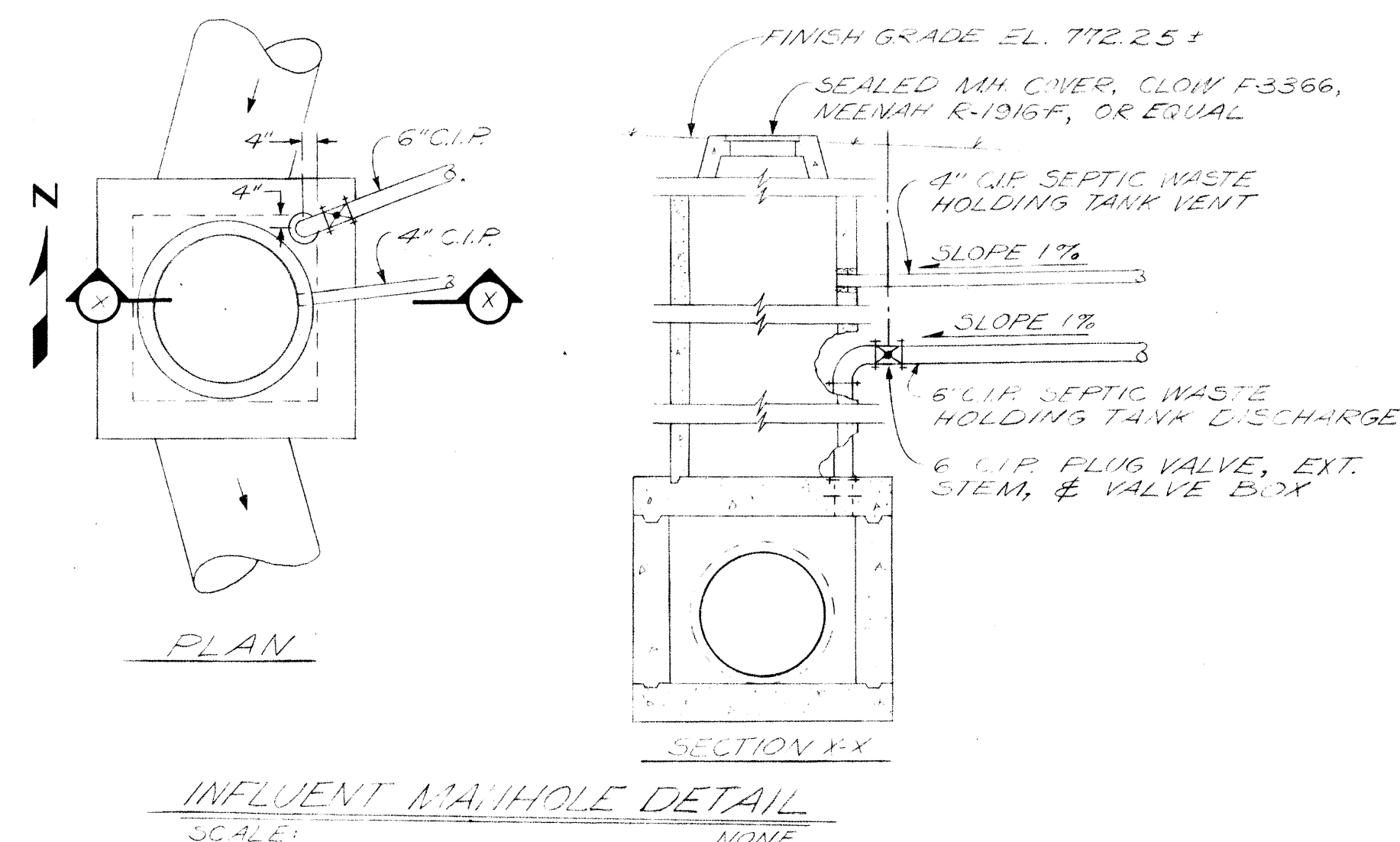
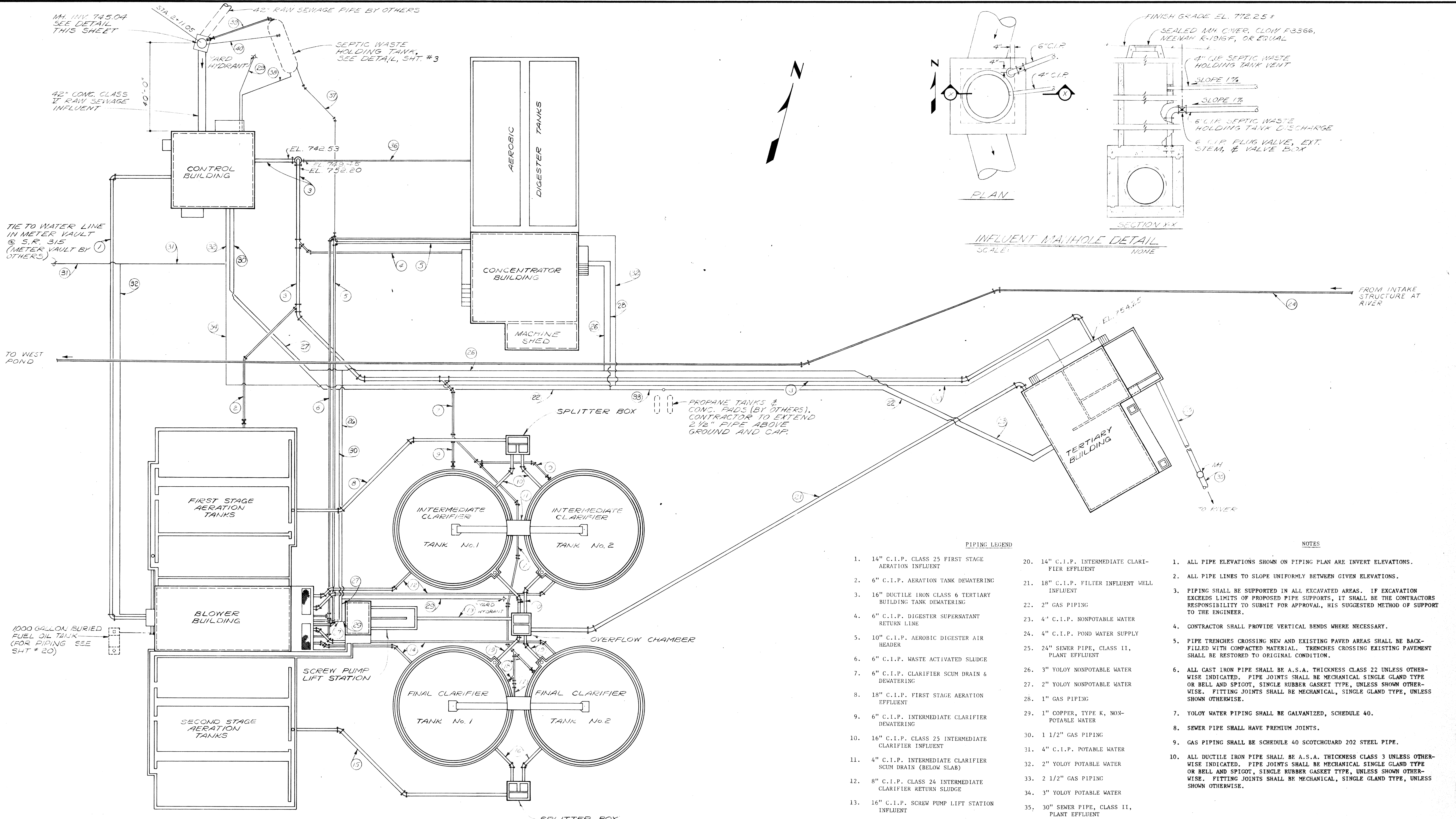
FLOATING FOUNTAIN ANCHOR DETAIL
SCALE: 3/8" = 1'-0"

DAM TABLE					
DAM NO.	A (FT)	B (FT)	C (FT)	D (FT)	SPILLWAY CREST ELEV
1	40	18	2.0	1.5	773.00
2	42	19	2.5	2.0	771.30
3	40	18	2.5	2.0	769.00
4	26	11	2.3	1.8	766.50
5	30	13	1.8	1.3	764.00
6	34	15	1.8	1.3	763.00

BURGESS & NIPLE, LIMITED CONSULTING ENGINEERS
COLUMBUS, OHIO

DELAWARE COUNTY, OHIO
OLENTANGY ENVIRONMENTAL CONTROL CENTER
WATERWAY PROFILE & DETAILS

REVISIONS APRIL, 1975	DRAWN BY D.A.H. TRACED BY D.A.H.	CHECKED BY APPROVED BY
JUNE, 1973	SCALE: AS NOTED	SHEET 7 OF 75



INFLUENT MANHOLE DETAIL
SCALE: NONE

- PIPING LEGEND**
- 14" C.I.P. CLASS 25 FIRST STAGE AERATION INFLUENT
 - 6" C.I.P. AERATION TANK DEWATERING
 - 16" DUCTILE IRON CLASS 6 TERTIARY BUILDING DEWATERING
 - 6" C.I.P. DIGESTER SUPERNATANT RETURN LINE
 - 10" C.I.P. AEROBIC DIGESTER AIR HEADER
 - 6" C.I.P. WASTE ACTIVATED SLUDGE
 - 6" C.I.P. CLARIFIER SCUM DRAIN & DEWATERING
 - 18" C.I.P. FIRST STAGE AERATION EFFLUENT
 - 6" C.I.P. INTERMEDIATE CLARIFIER DEWATERING
 - 16" C.I.P. CLASS 25 INTERMEDIATE CLARIFIER INFLUENT
 - 4" C.I.P. INTERMEDIATE CLARIFIER SCUM DRAIN (BELOW SLAB)
 - 8" C.I.P. CLASS 24 INTERMEDIATE CLARIFIER RETURN SLUDGE
 - 16" C.I.P. SCREW PUMP LIFT STATION INFLUENT
 - 8" C.I.P. CLASS 24 FINAL CLARIFIER RETURN SLUDGE
 - 18" C.I.P. SECOND STAGE AERATION EFFLUENT
 - 16" C.I.P. CLASS 25 FINAL CLARIFIER INFLUENT
 - 4" C.I.P. FINAL CLARIFIER SCUM DRAIN
 - 6" C.I.P. FINAL CLARIFIER DEWATERING
 - 14" C.I.P. FINAL CLARIFIER EFFLUENT
 - 14" C.I.P. INTERMEDIATE CLARIFIER EFFLUENT
 - 18" C.I.P. FILTER INFLUENT WELL INFLUENT
 - 2" GAS PIPING
 - 4" C.I.P. NONPOTABLE WATER
 - 4" C.I.P. POND WATER SUPPLY
 - 24" SEWER PIPE, CLASS II, PLANT EFFLUENT
 - 3" YOLOY NONPOTABLE WATER
 - 2" YOLOY NONPOTABLE WATER
 - 1" GAS PIPING
 - 1" COPPER, TYPE K, NON-POTABLE WATER
 - 1 1/2" GAS PIPING
 - 4" C.I.P. POTABLE WATER
 - 2" YOLOY POTABLE WATER
 - 2 1/2" GAS PIPING
 - 3" YOLOY POTABLE WATER
 - 30" SEWER PIPE, CLASS II, PLANT EFFLUENT
 - 6" C.I.P. AEROBIC DIGESTER DEWATERING
 - 2" C.I.P. SEPTIC WASTE HOLDING TANK AIR HEADER
 - 1/2" PVC CHLORINE SOLUTION
 - 6" C.I.P. SEPTIC WASTE HOLDING TANK DISCHARGE
 - 4" C.I.P. SEPTIC WASTE HOLDING TANK VENT

- NOTES**
- ALL PIPE ELEVATIONS SHOWN ON PIPING PLAN ARE INVERT ELEVATIONS.
 - ALL PIPE LINES TO SLOPE UNIFORMLY BETWEEN GIVEN ELEVATIONS.
 - PIPING SHALL BE SUPPORTED IN ALL EXCAVATED AREAS. IF EXCAVATION EXCEEDS LIMITS OF PROPOSED PIPE SUPPORTS, IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO SUBMIT FOR APPROVAL, HIS SUGGESTED METHOD OF SUPPORT TO THE ENGINEER.
 - CONTRACTOR SHALL PROVIDE VERTICAL BENDS WHERE NECESSARY.
 - PIPE TRENCHES CROSSING NEW AND EXISTING PAVED AREAS SHALL BE BACK-FILLED WITH COMPACTED MATERIAL. TRENCHES CROSSING EXISTING PAVEMENT SHALL BE RESTORED TO ORIGINAL CONDITION.
 - ALL CAST IRON PIPE SHALL BE A.S.A. THICKNESS CLASS 22 UNLESS OTHERWISE INDICATED. PIPE JOINTS SHALL BE MECHANICAL SINGLE GLAND TYPE OR BELL AND SPIGOT, SINGLE RUBBER GASKET TYPE, UNLESS SHOWN OTHERWISE. FITTING JOINTS SHALL BE MECHANICAL, SINGLE GLAND TYPE, UNLESS SHOWN OTHERWISE.
 - YOLOY WATER PIPING SHALL BE GALVANIZED, SCHEDULE 40.
 - SEWER PIPE SHALL HAVE PREMIUM JOINTS.
 - GAS PIPING SHALL BE SCHEDULE 40 SCOTCHGUARD 202 STEEL PIPE.
 - ALL DUCTILE IRON PIPE SHALL BE A.S.A. THICKNESS CLASS 3 UNLESS OTHERWISE INDICATED. PIPE JOINTS SHALL BE MECHANICAL SINGLE GLAND TYPE OR BELL AND SPIGOT, SINGLE RUBBER GASKET TYPE, UNLESS SHOWN OTHERWISE. FITTING JOINTS SHALL BE MECHANICAL, SINGLE GLAND TYPE, UNLESS SHOWN OTHERWISE.

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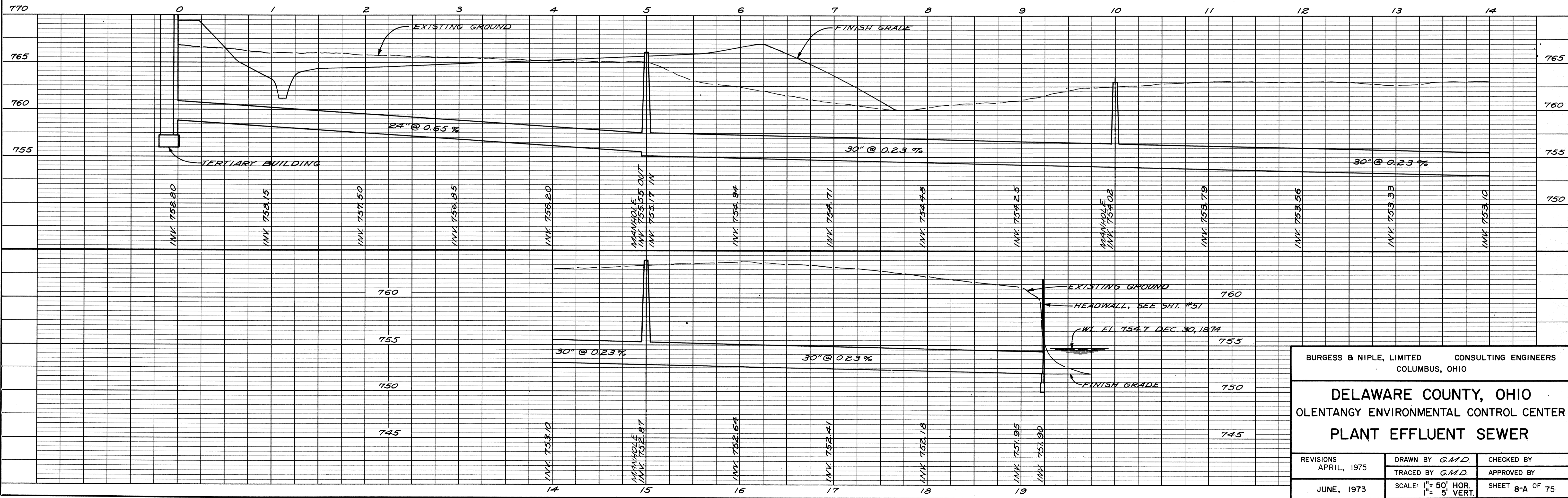
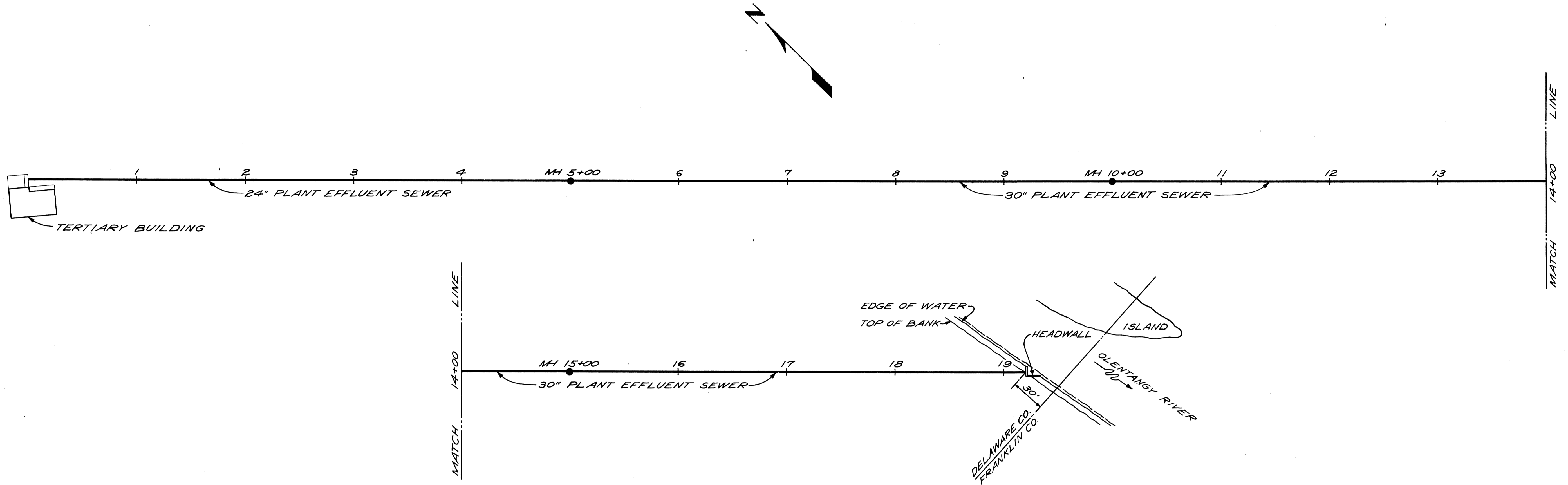
DELAWARE COUNTY, OHIO
OLENTANGY ENVIRONMENTAL CONTROL CENTER

PIPING PLAN

REVISIONS APRIL, 1975	DRAWN BY D.M.S. TRACED BY D.M.S.	CHECKED BY APPROVED BY
JUNE, 1973	SCALE: 1" = 20'	SHEET 8 OF 75

DATE	
BY	
SURVISED	
PROFITEER	
NOTE BOOK	
NO.	

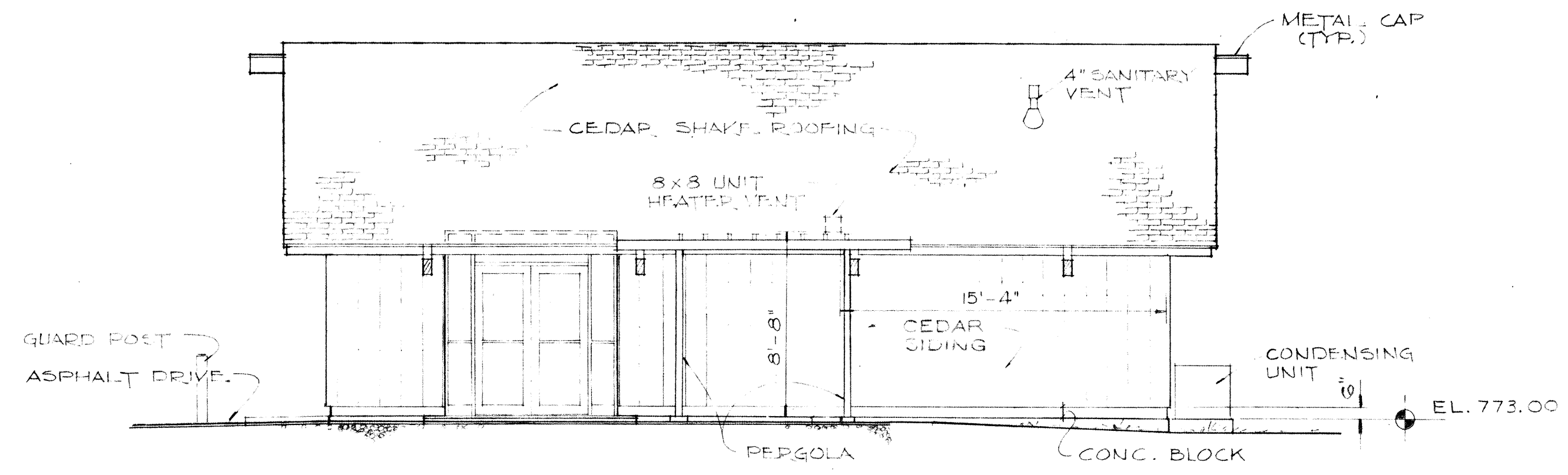
DATE	
BY	
SURVISED	
PROFITEER	
NOTE BOOK	
NO.	



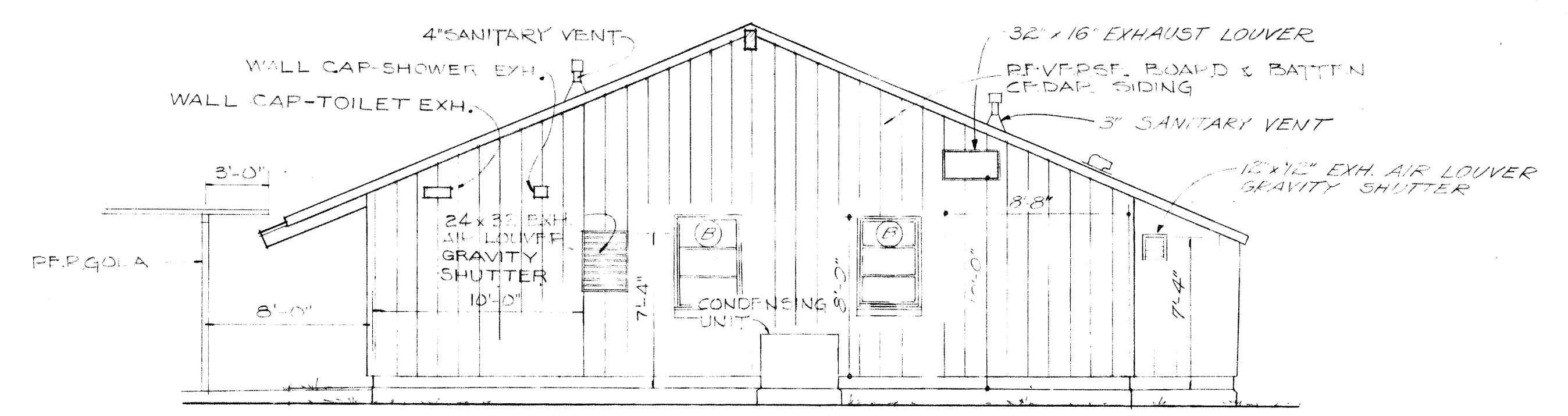
BURGESS & NIPLE, LIMITED CONSULTING ENGINEERS
COLUMBUS, OHIO

DELAWARE COUNTY, OHIO
OLENTANGY ENVIRONMENTAL CONTROL CENTER
PLANT EFFLUENT SEWER

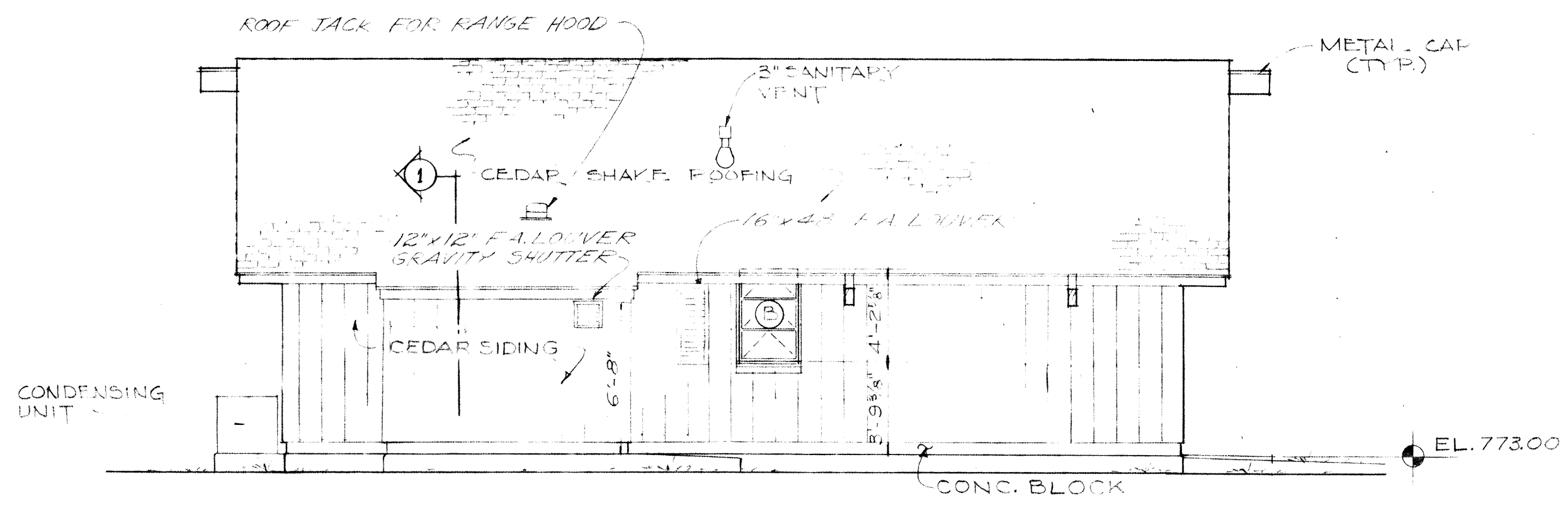
REVISIONS	DRAWN BY G.M.D.	CHECKED BY
APRIL, 1975	TRACED BY G.M.D.	APPROVED BY
JUNE, 1973	SCALE: 1" = 50' HOR. 1" = 5' VERT.	SHEET 8-A OF 75



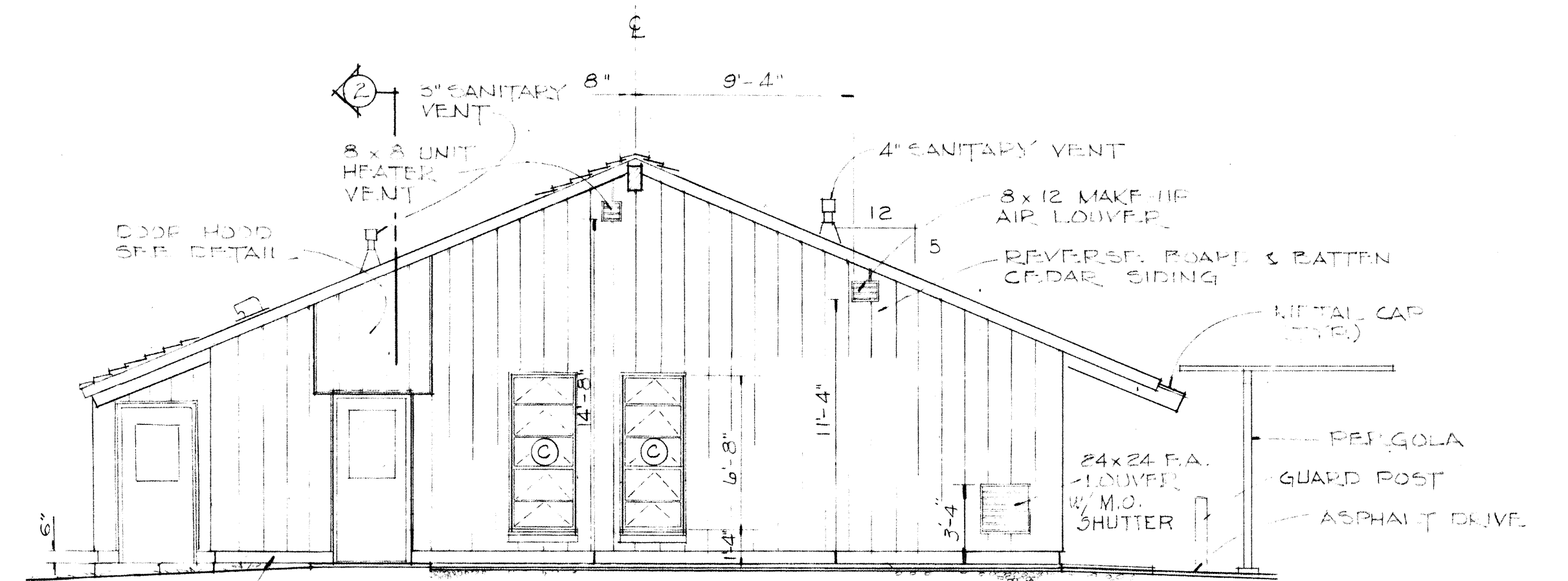
SOUTH



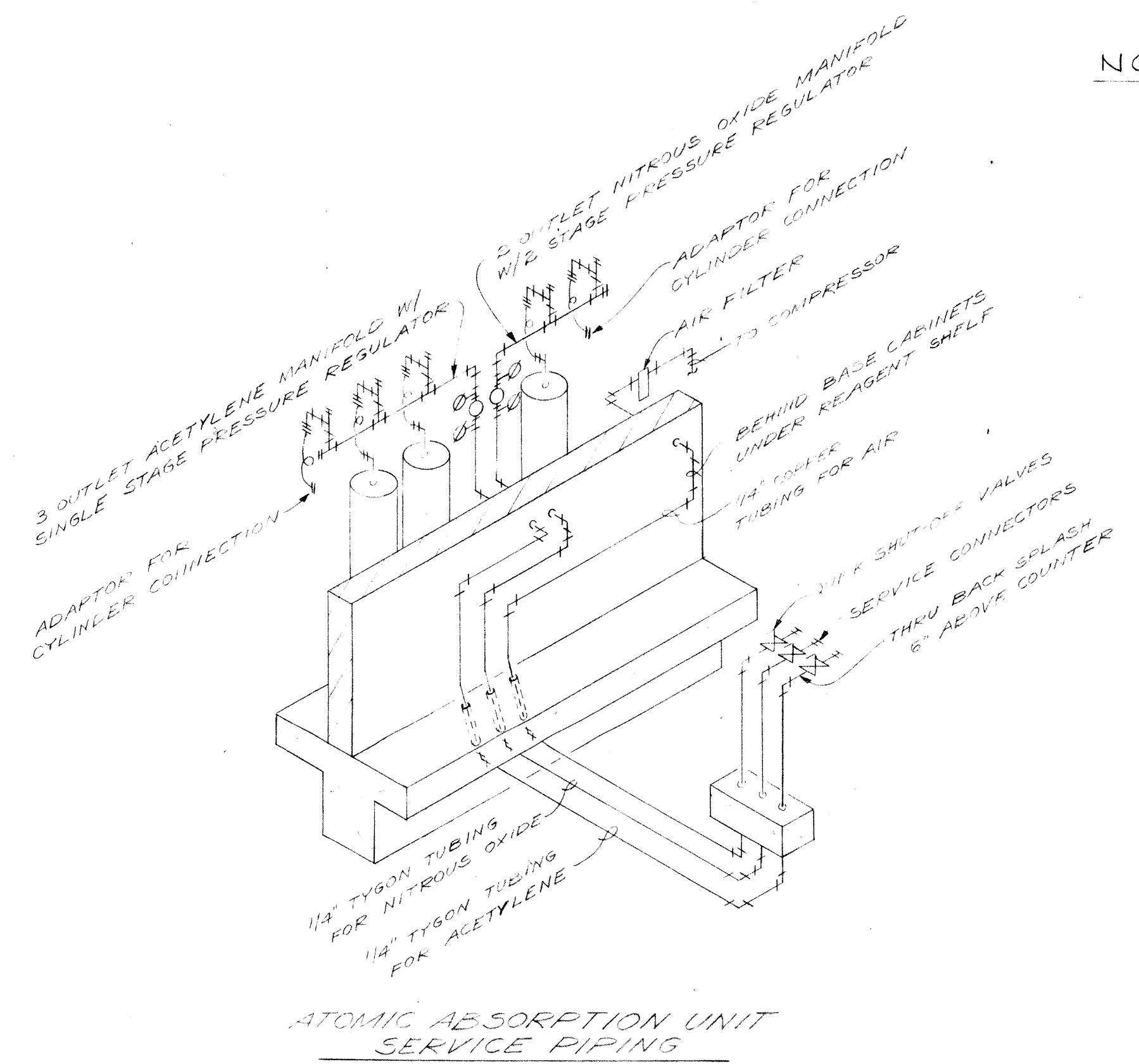
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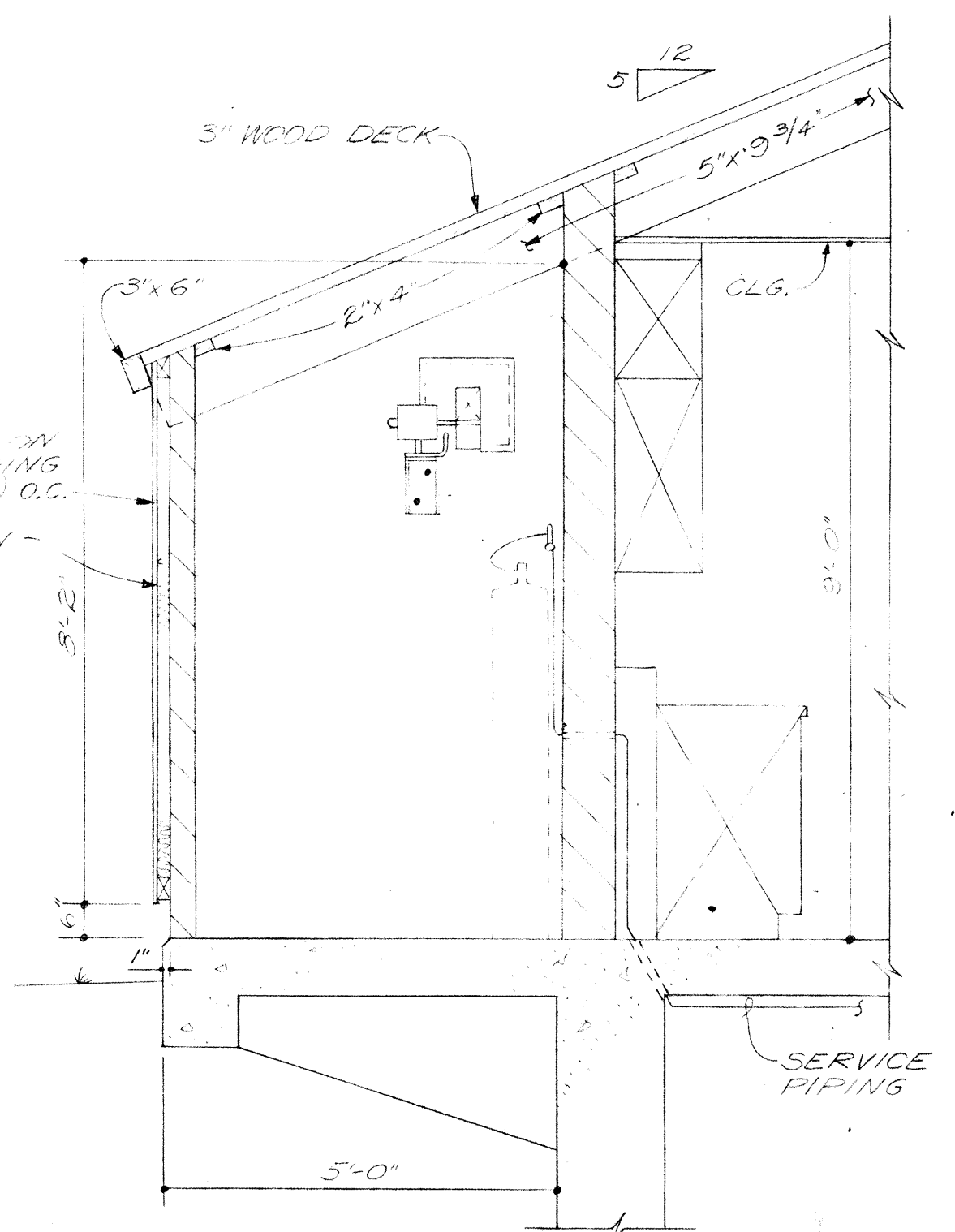
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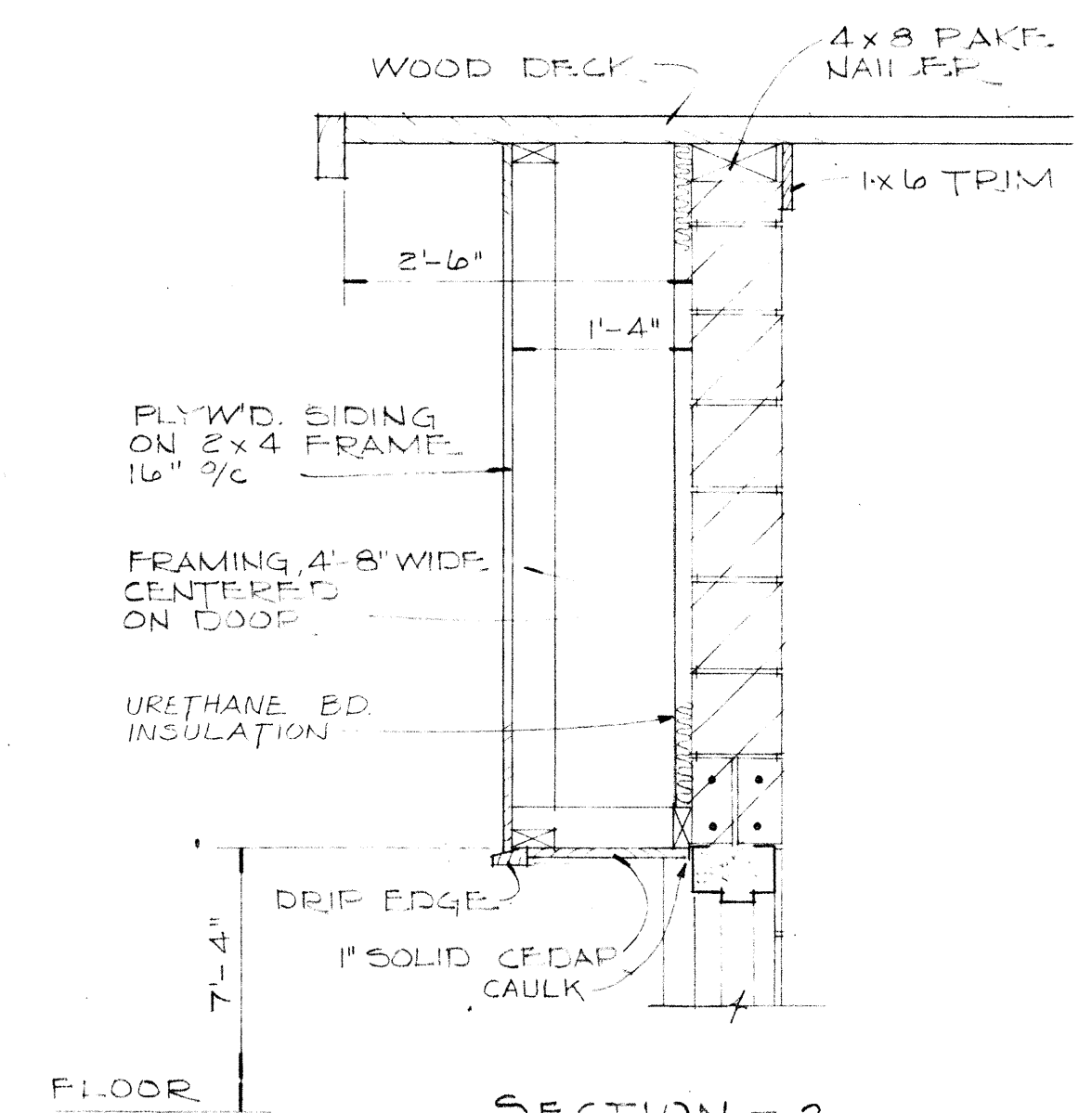
WEST



ATOMIC ABSORPTION UNIT SERVICE PIPING

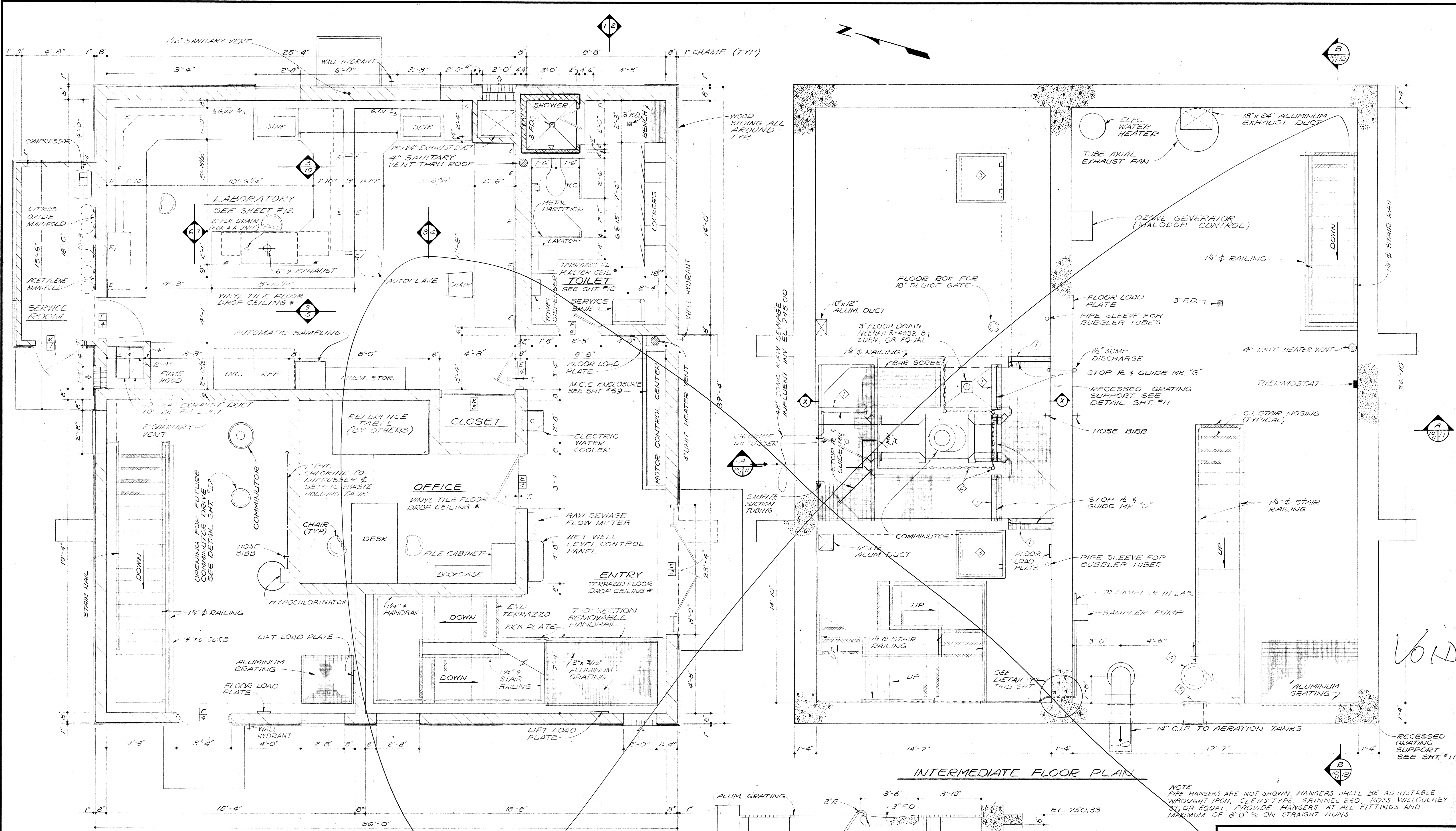


SECTION - 1
SCALE: 1/2" = 1'-0"



SECTION - 2
SCALE: 3/4" = 1'-0"

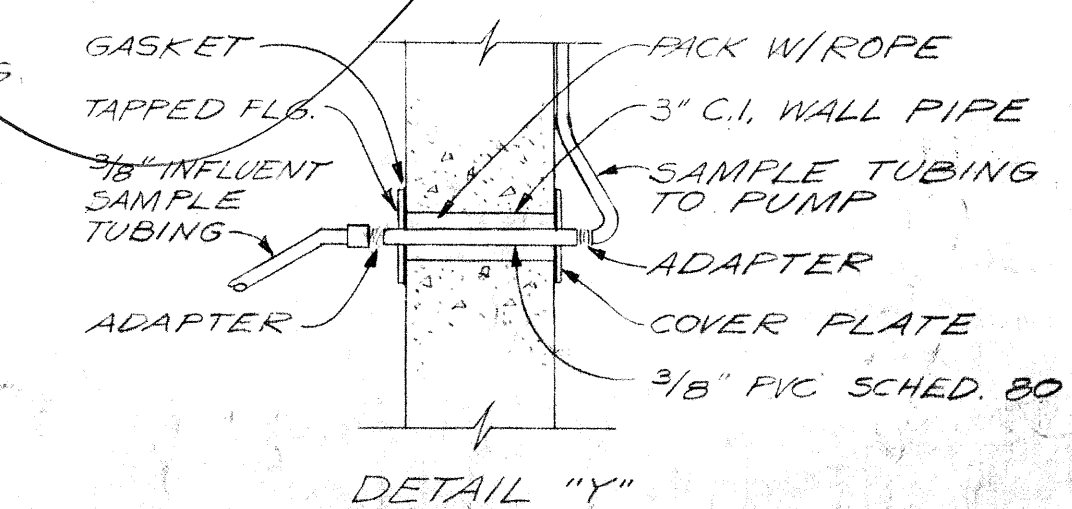
BURGESS & NIPLE, LIMITED		CONSULTING ENGINEERS
COLUMBUS, OHIO		
DELAWARE COUNTY, OHIO		
OLENTANGY ENVIRONMENTAL CONTROL CENTER		
CONTROL BUILDING ELEVATIONS		
REVISIONS	DRAWN BY WJN	CHECKED BY
APRIL, 1975	TRACED BY DEH	APPROVED BY
JUNE, 1973	SCALE: 3/16" = 1'-0" UNLESS NOTED	SHEET 9 OF 75



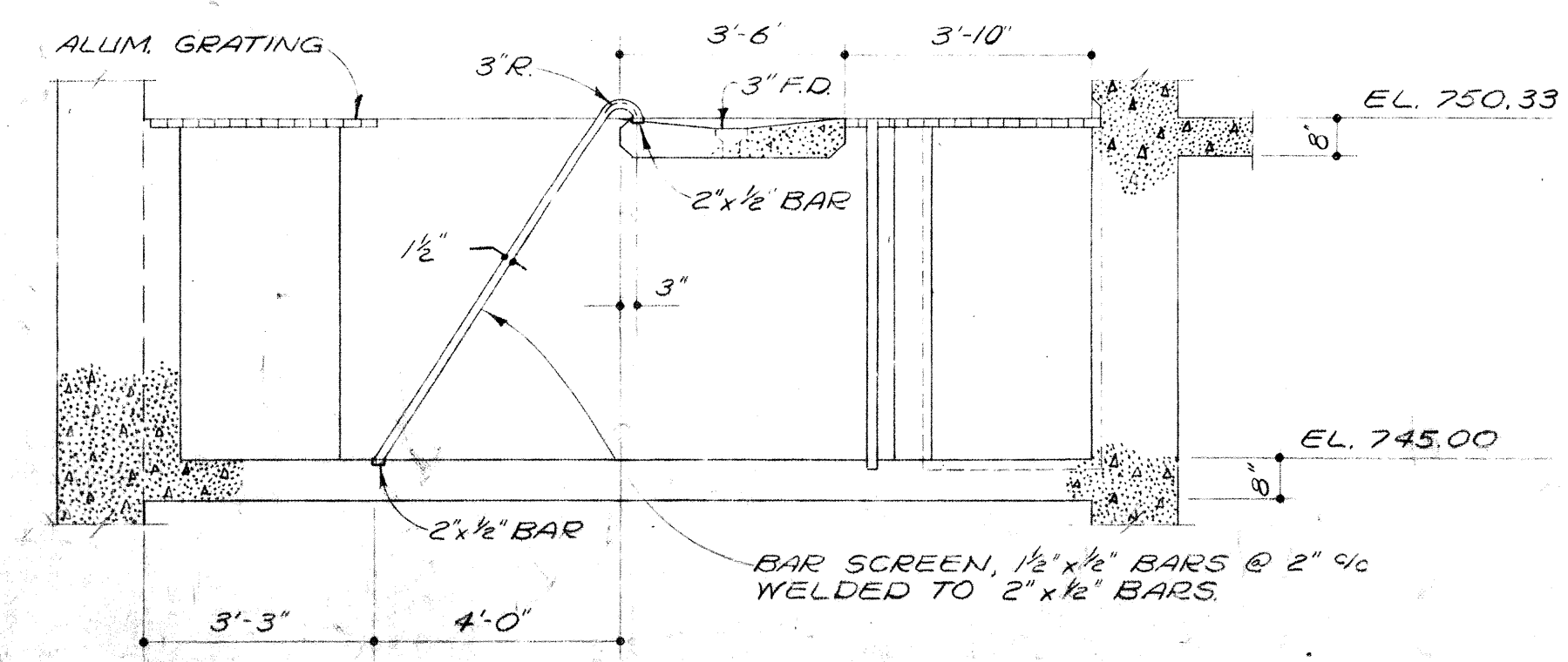
- ◇ PROVIDE LIFT OUT SECTION OF GRATING. SEE GRATING DETAILS SHEET #52
- ◇ REMOVABLE CHAIN & POSTS AROUND COMMUNICATOR PIT.
- ◇ 2'-6" x 2'-6" ACCESS FLOOR DOOR, BILCO TYPE "K-2", BABCOCK-DAVIS INC., OR EQUAL.
- ◇ 14" FF WALL PIPE W/BLIND FLANGE FOR FUTURE PUMP DISCHARGE.
- ◇ 14" F.M.T. WALL PIPE TAPPED FOR STUDS W/BLIND FLANGES EACH END FOR FUTURE PUMP DISCHARGE.

UPPER FLOOR PLAN

INTERMEDIATE FLOOR PLAN



DETAIL "Y"



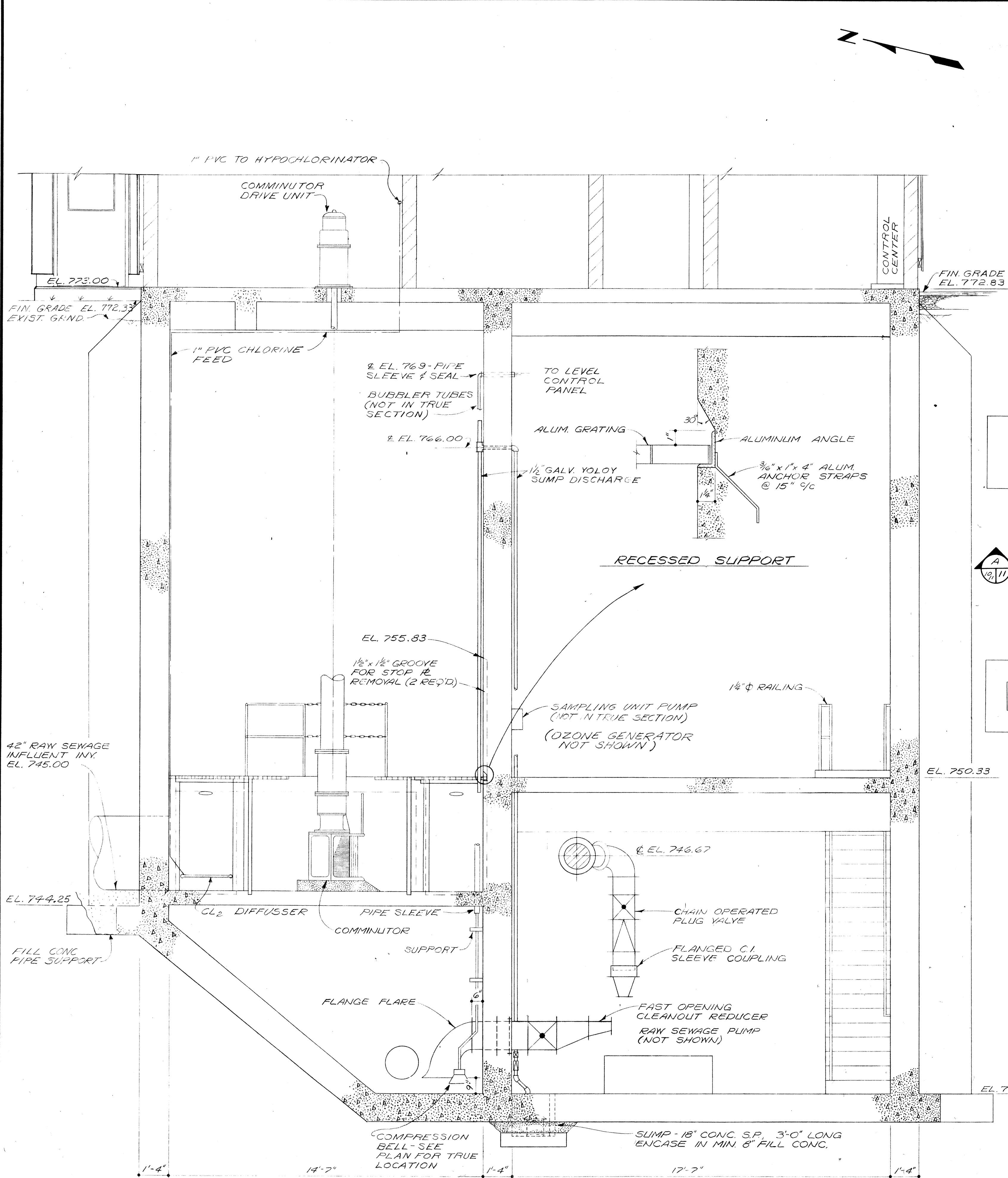
SECTION X-X
(BAR SCREEN DETAILS)

NOTE: PIPE HANGERS ARE NOT SHOWN. HANGERS SHALL BE ADJUSTABLE WROUGHT IRON, CLEVIS TYPE, GRINNEL 260; ROSS-WILLOUGHBY 37, OR EQUAL. PROVIDE HANGERS AT ALL FITTINGS AND MAXIMUM OF 8'-0" ON STRAIGHT RUNS.

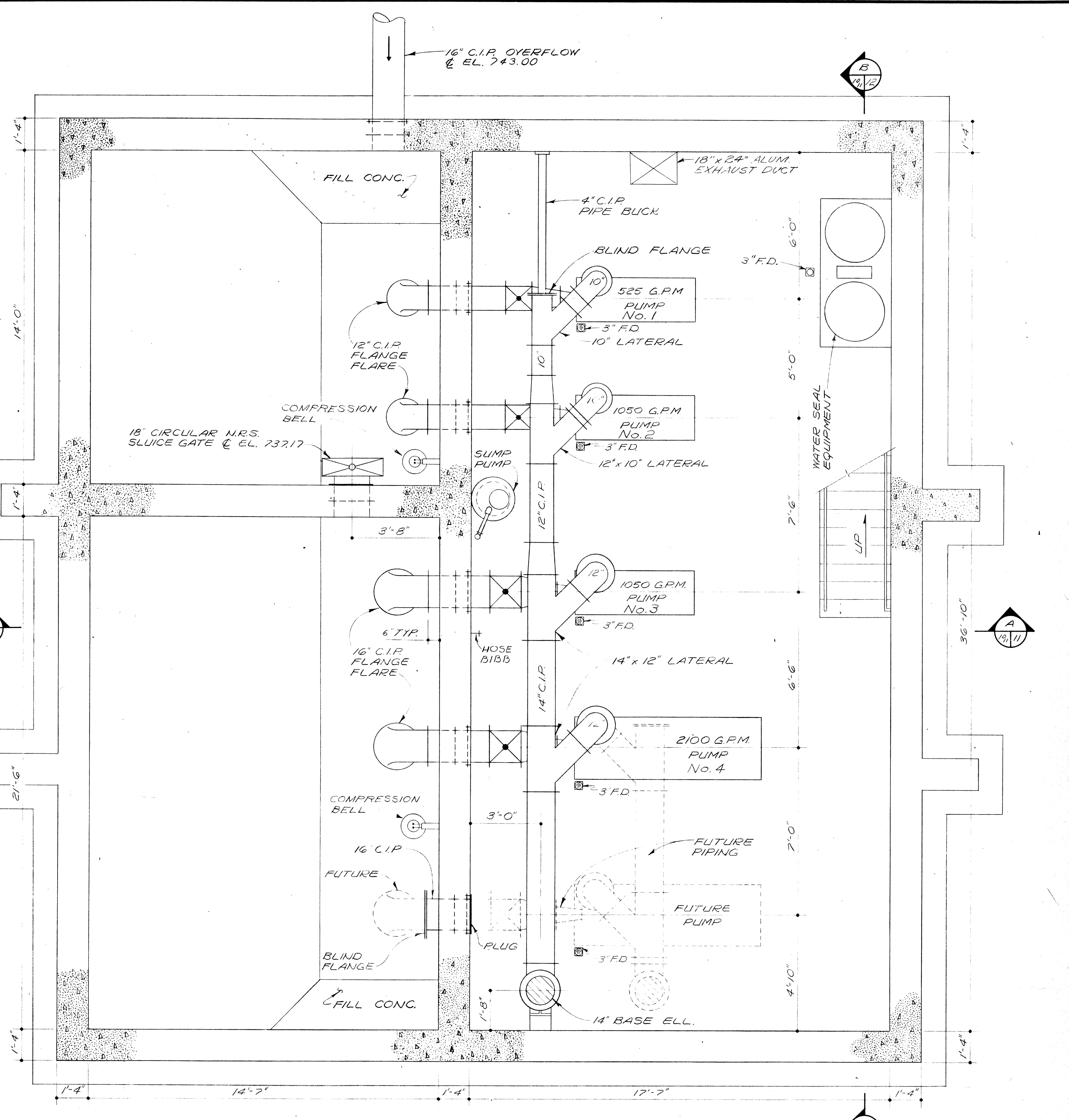
BURGESS & NIPLÉ, LIMITED CONSULTING ENGINEERS
COLUMBUS, OHIO

DELAWARE COUNTY, OHIO
OLENTANGY ENVIRONMENTAL CONTROL CENTER
CONTROL BUILDING
PLANS

REVISIONS APRIL, 1975	DRAWN BY RMW TRACED BY RMW	CHECKED BY APPROVED BY
JUNE, 1973	SCALE: 3/8" = 1'-0"	SHEET 10 OF 75



SECTION A
2/11



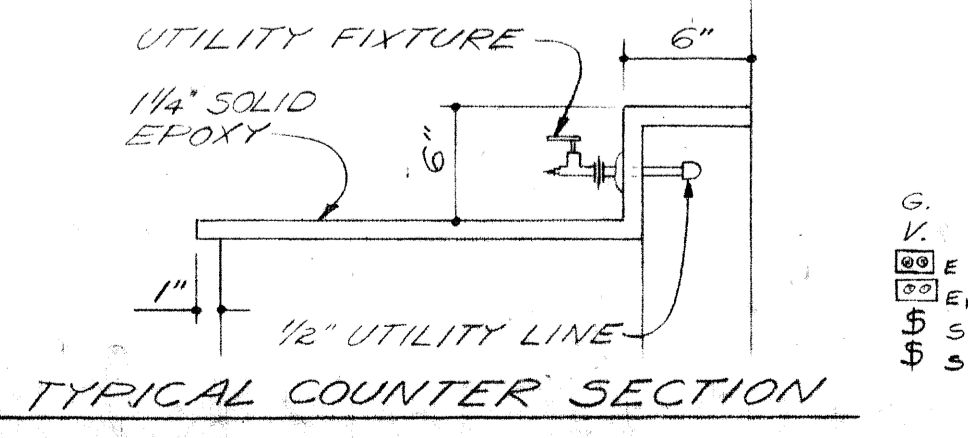
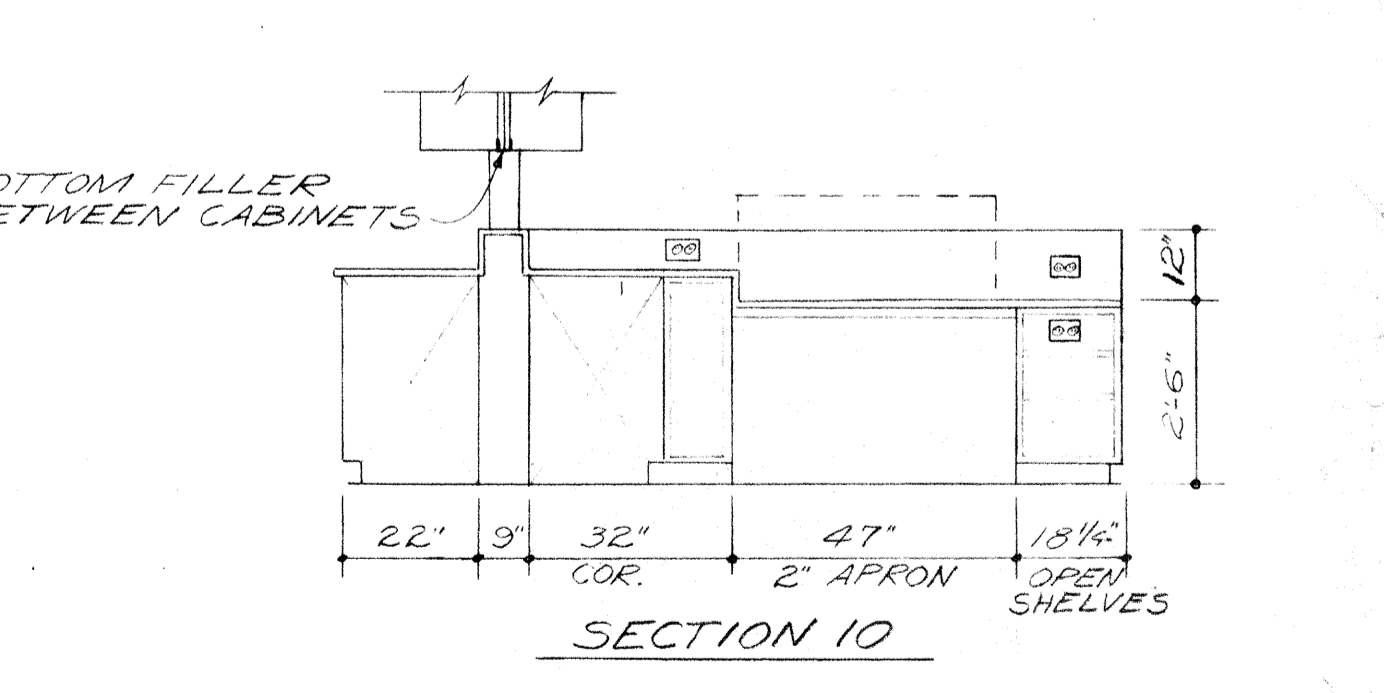
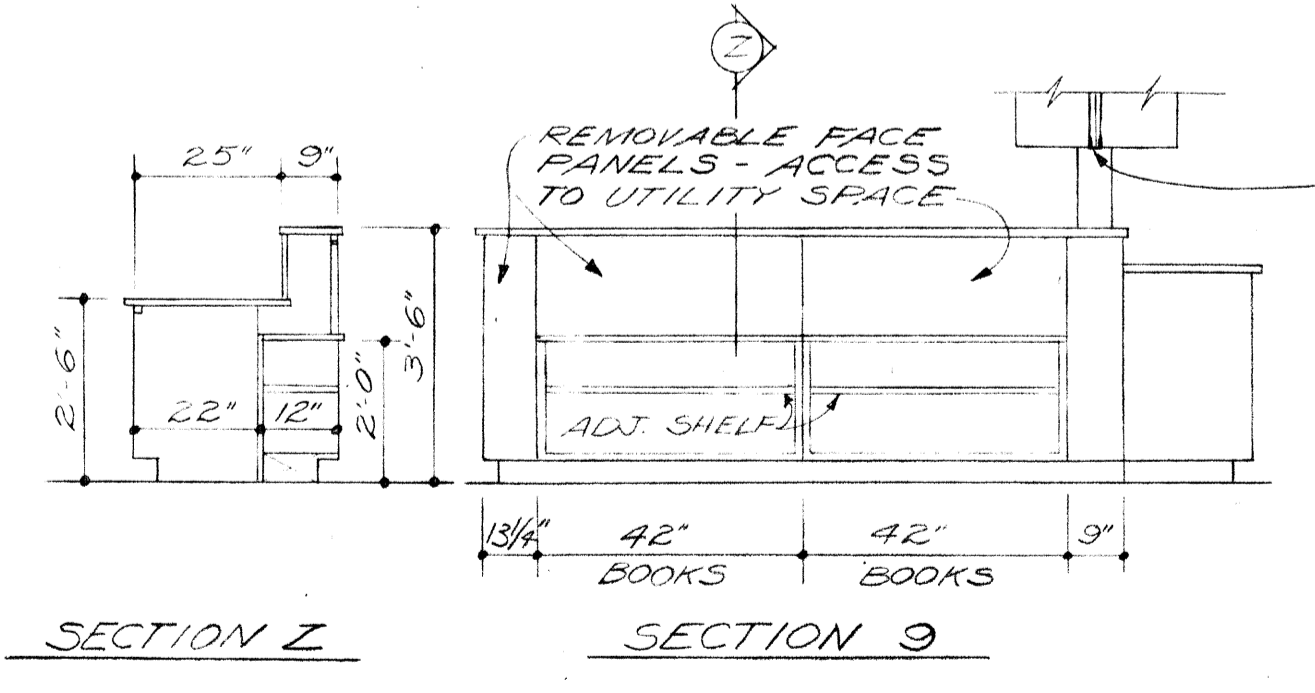
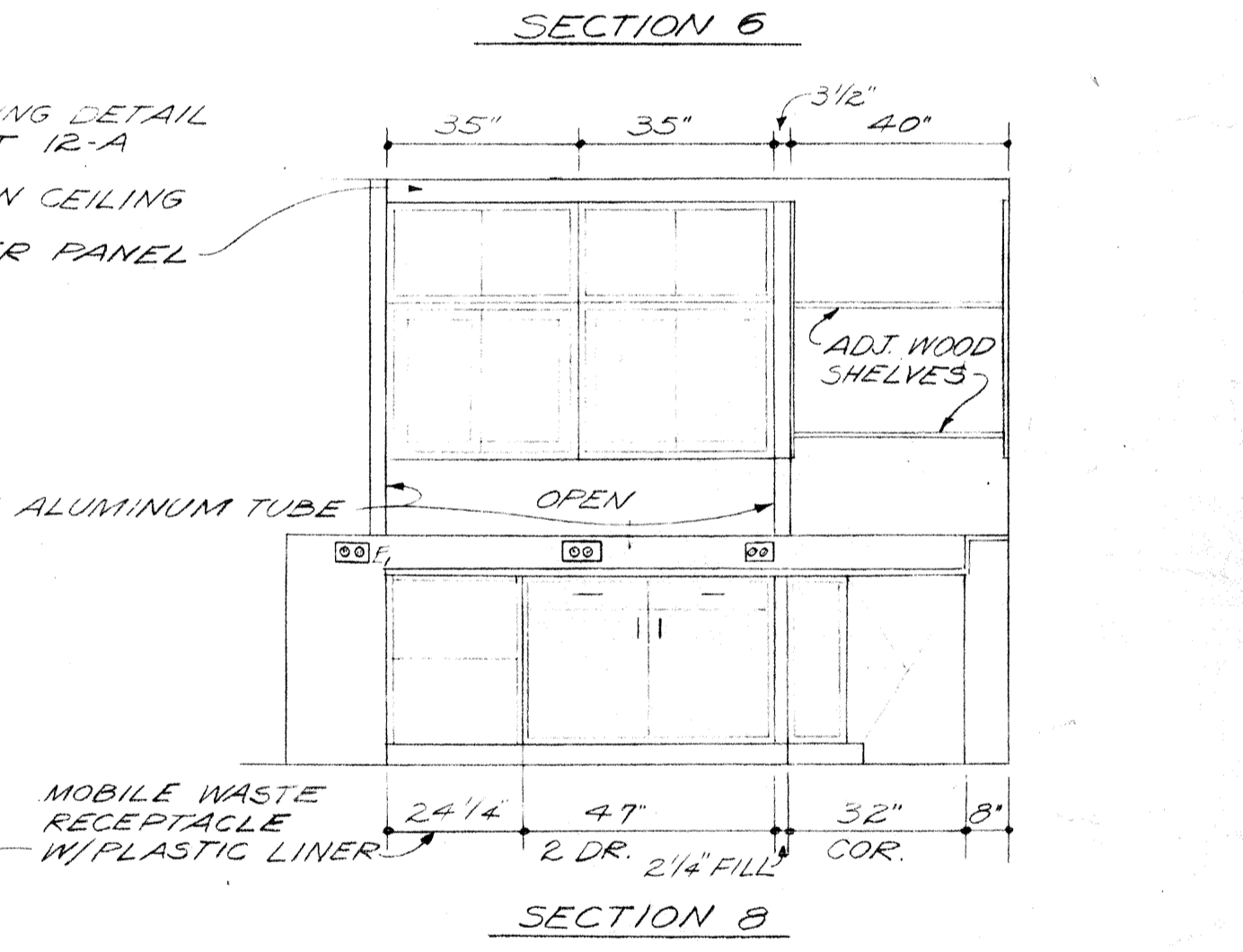
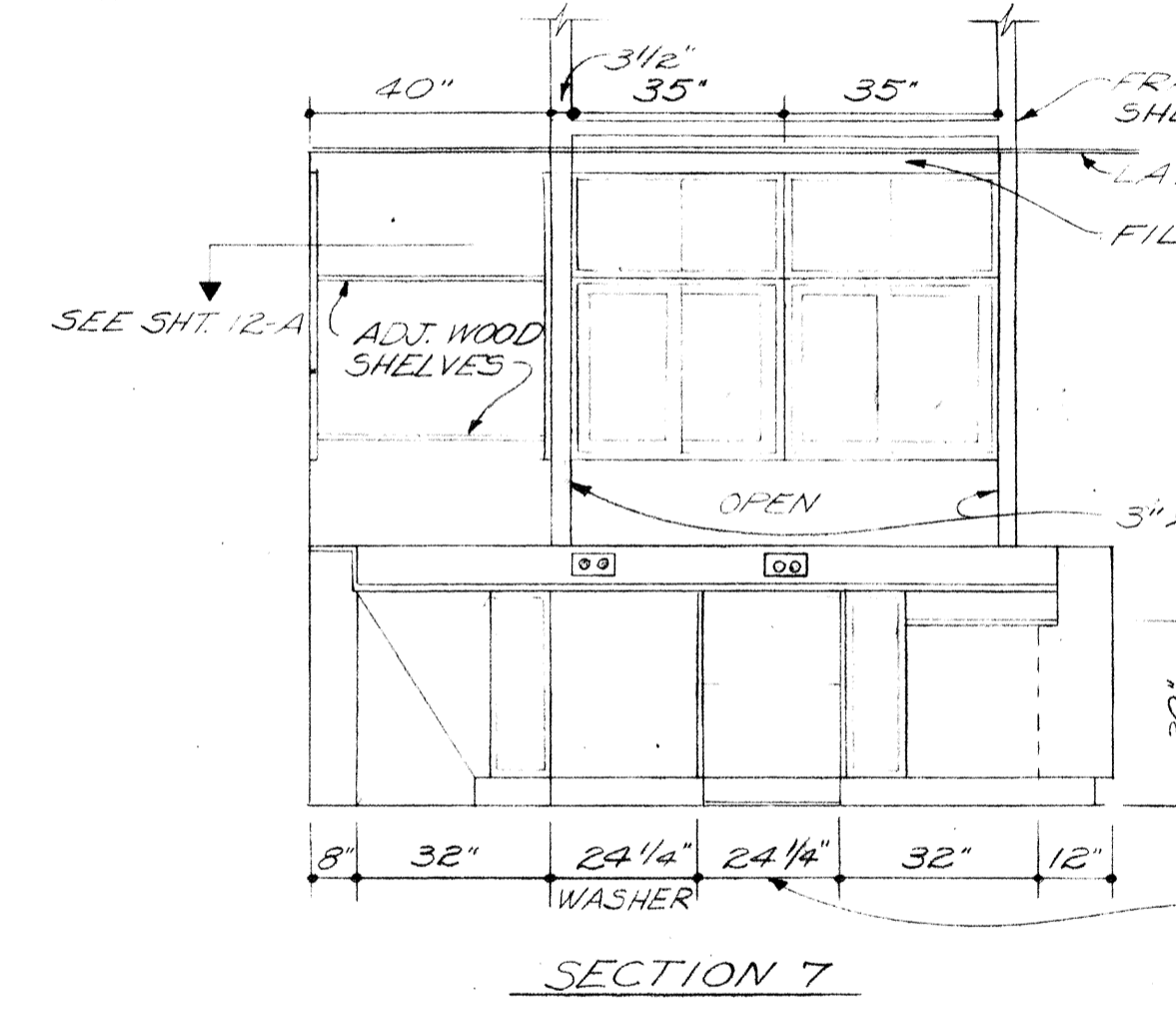
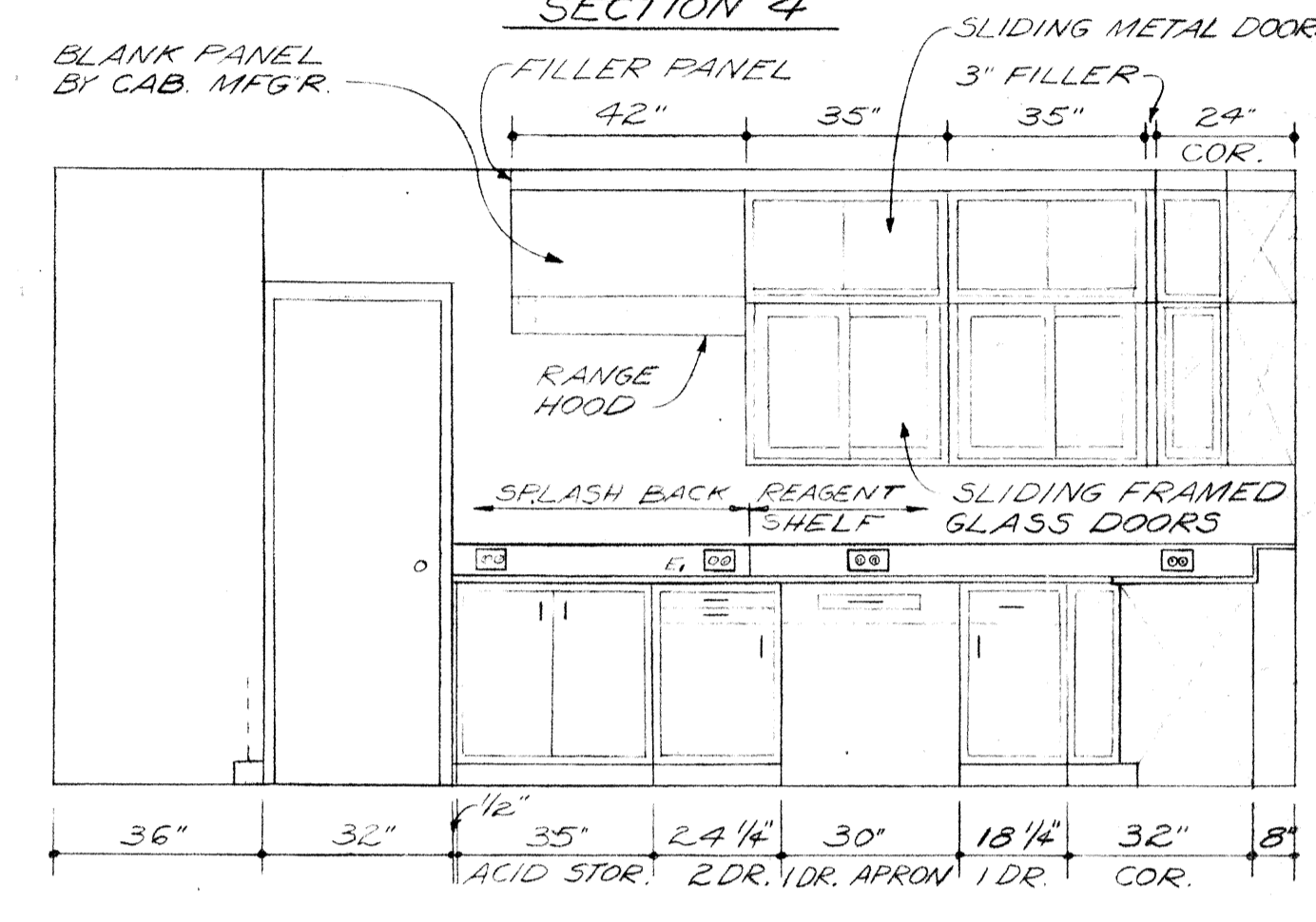
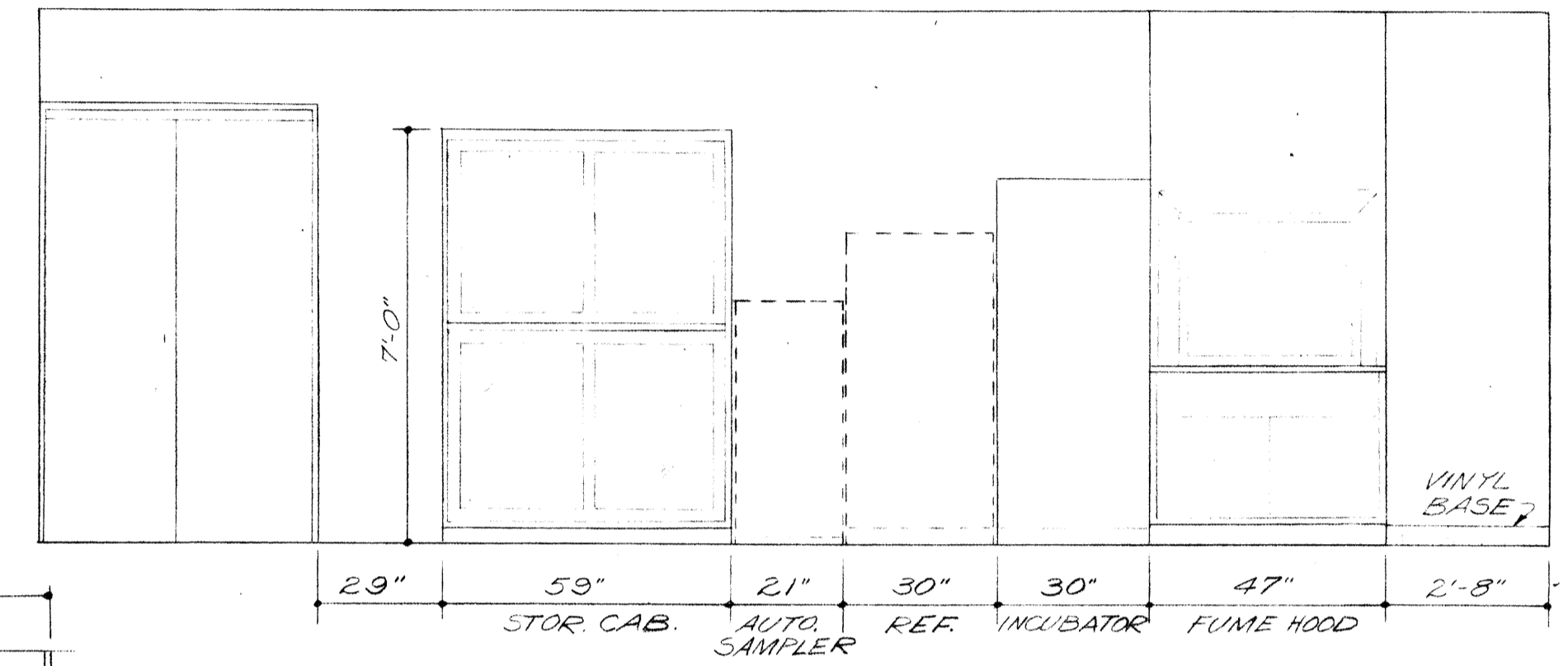
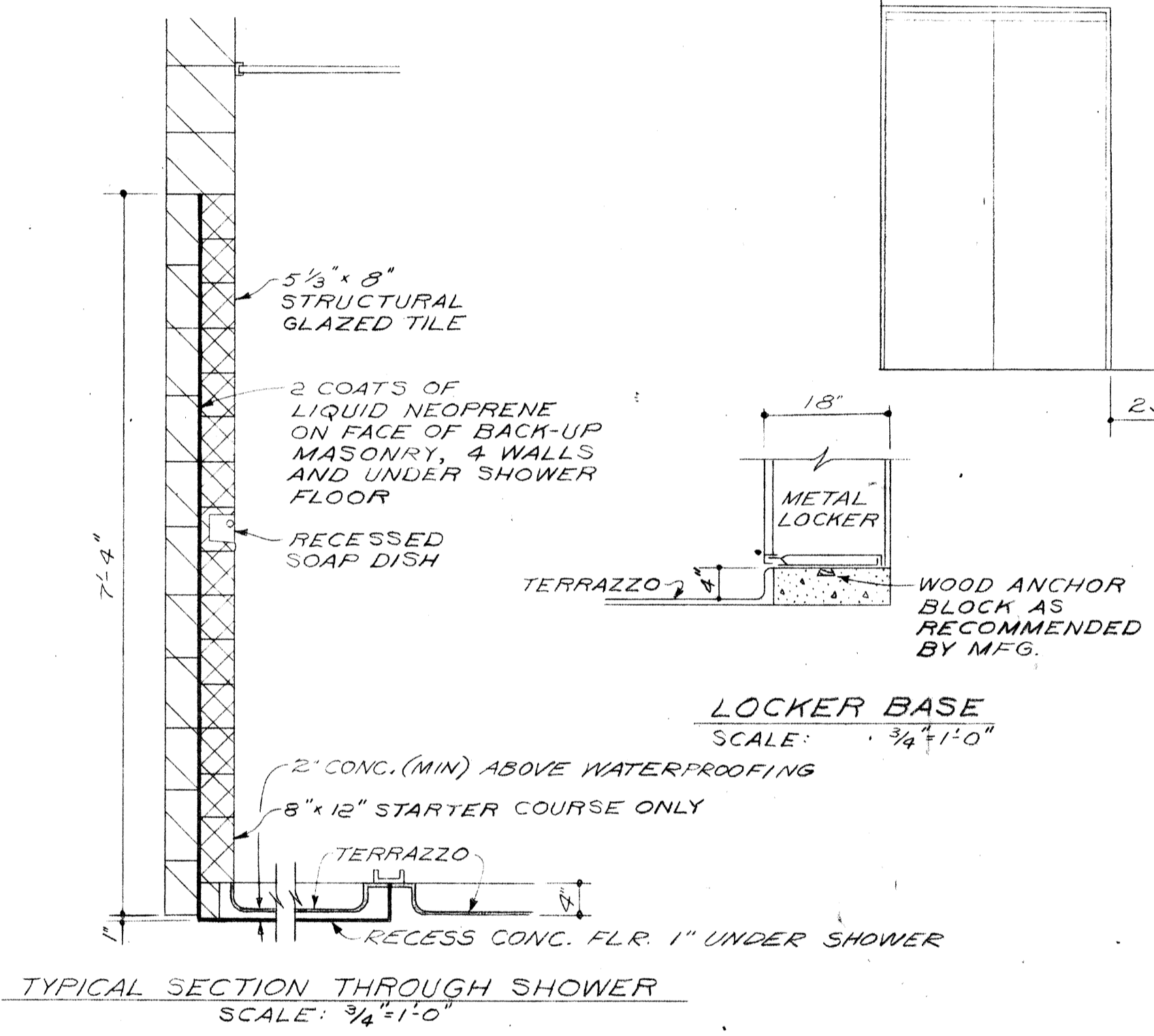
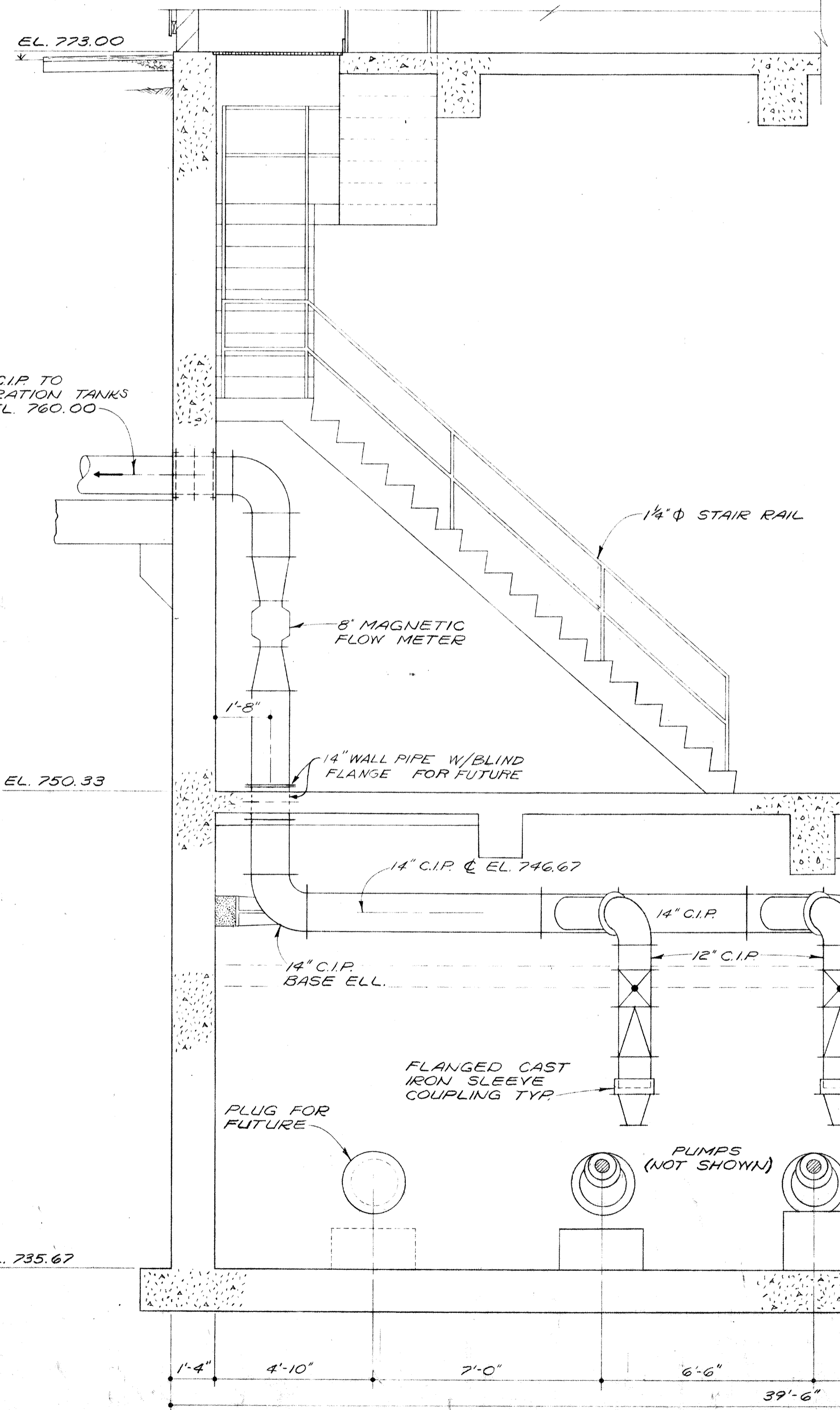
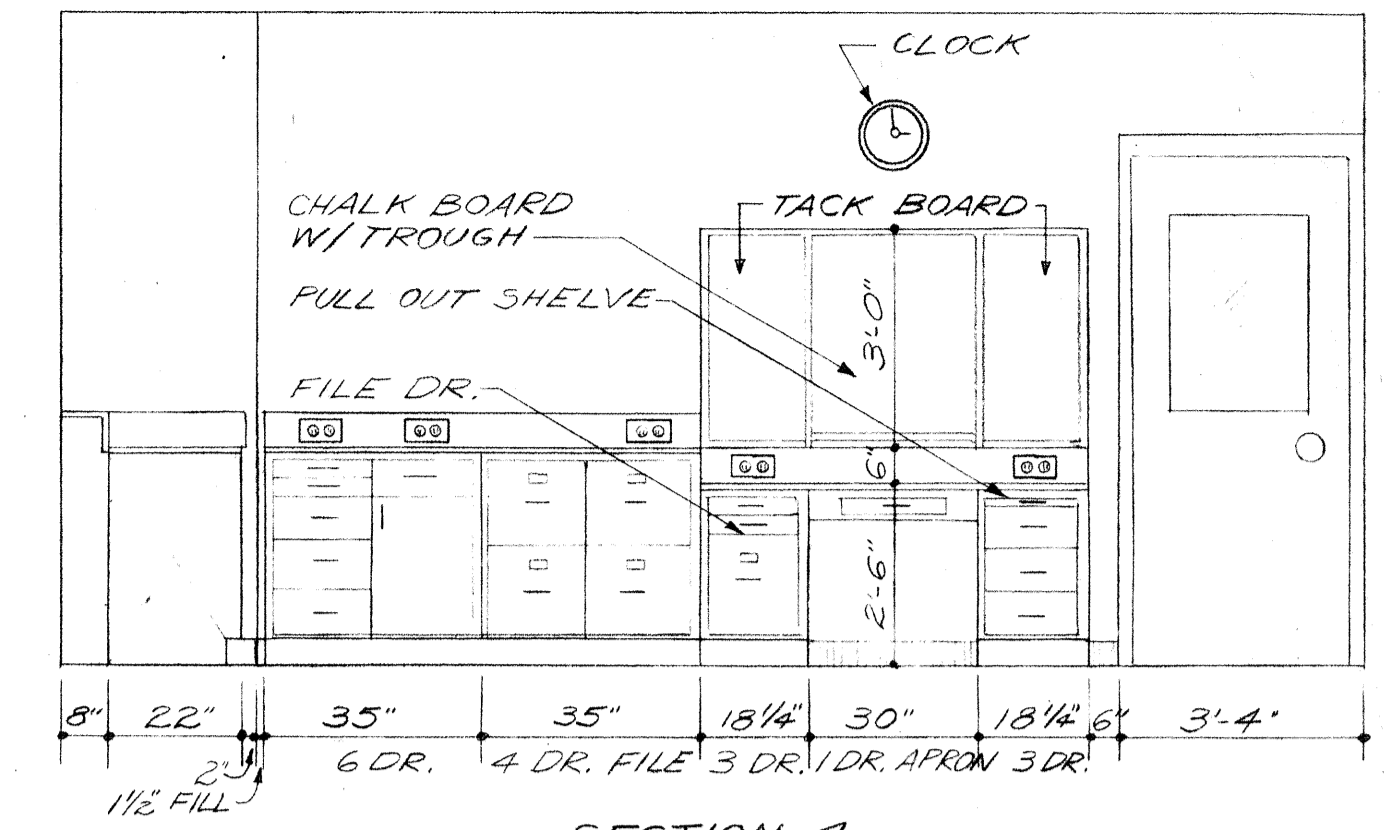
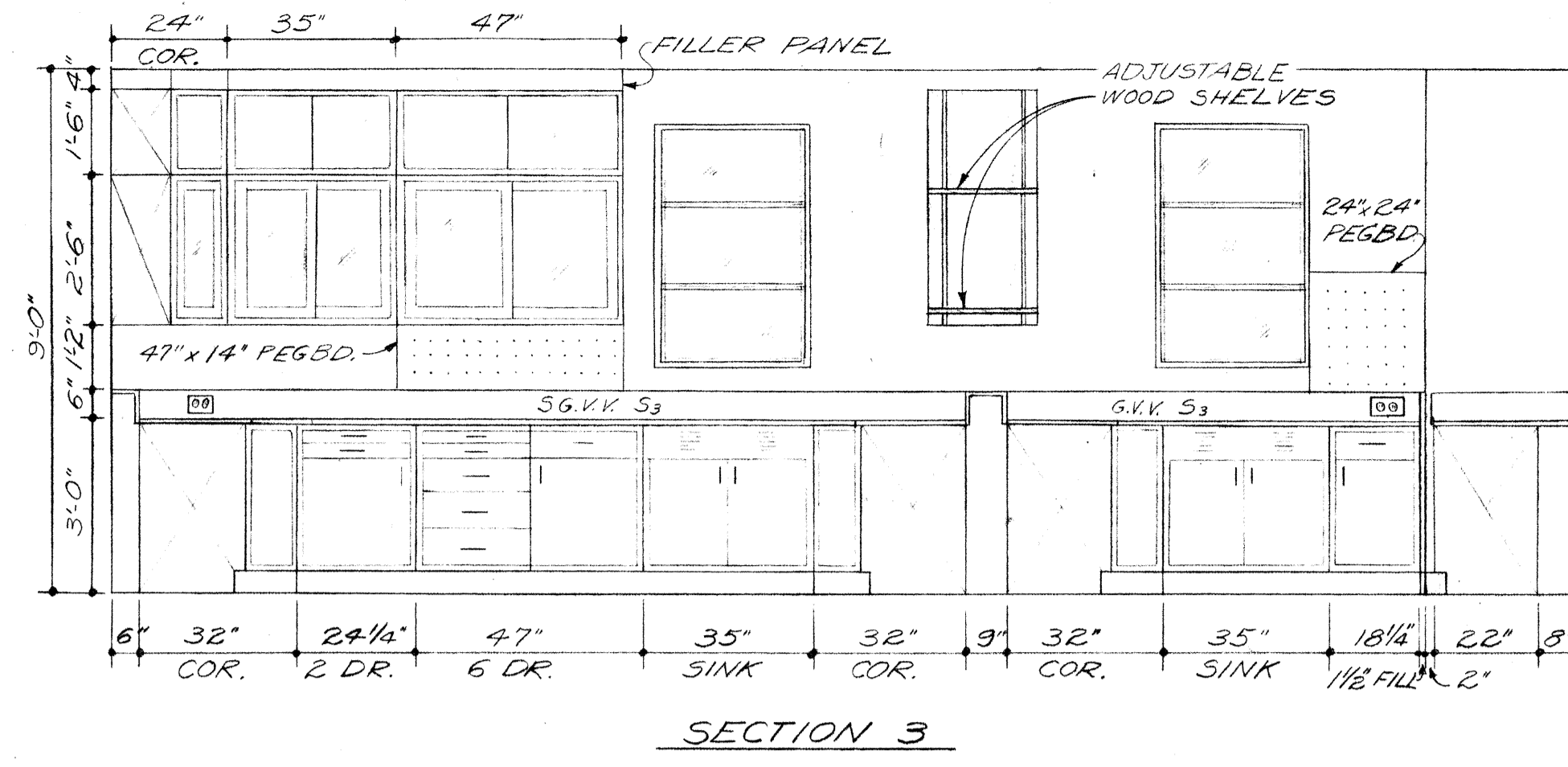
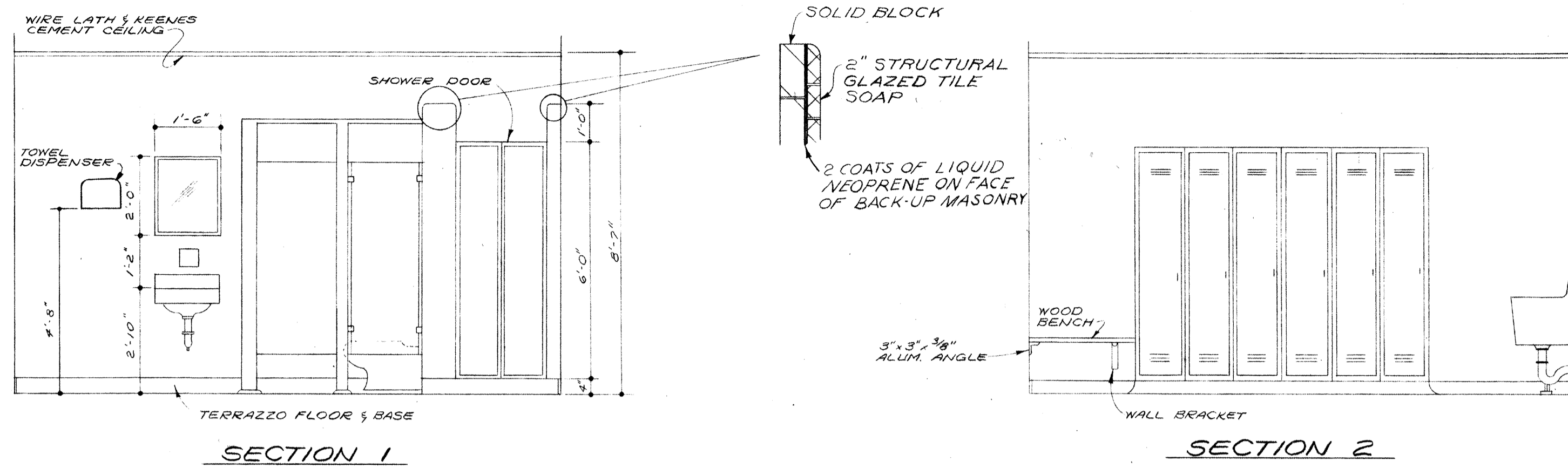
LOWER FLOOR PLAN

NOTE:
PIPE HANGERS ARE NOT SHOWN. HANGERS SHALL BE ADJUSTABLE WROUGHT IRON, CLEVIS TYPE GRINNEL 260, ROSS-WILLOUGHBY 97, OR EQUAL. PROVIDE HANGERS AT ALL FITTINGS AND MAXIMUM OF 5'-0" ON STRAIGHT RUNS.

BURGESS & NIPL, LIMITED CONSULTING ENGINEERS
COLUMBUS, OHIO

DELAWARE COUNTY, OHIO
OLENTANGY ENVIRONMENTAL CONTROL CENTER
CONTROL BUILDING
PLAN & SECTION

REVISIONS APRIL, 1975	DRAWN BY RMW	CHECKED BY
JUNE, 1973	TRACED BY RMW	APPROVED BY
SCALE: 3/8" = 1'-0"		SHEET 11 OF 75



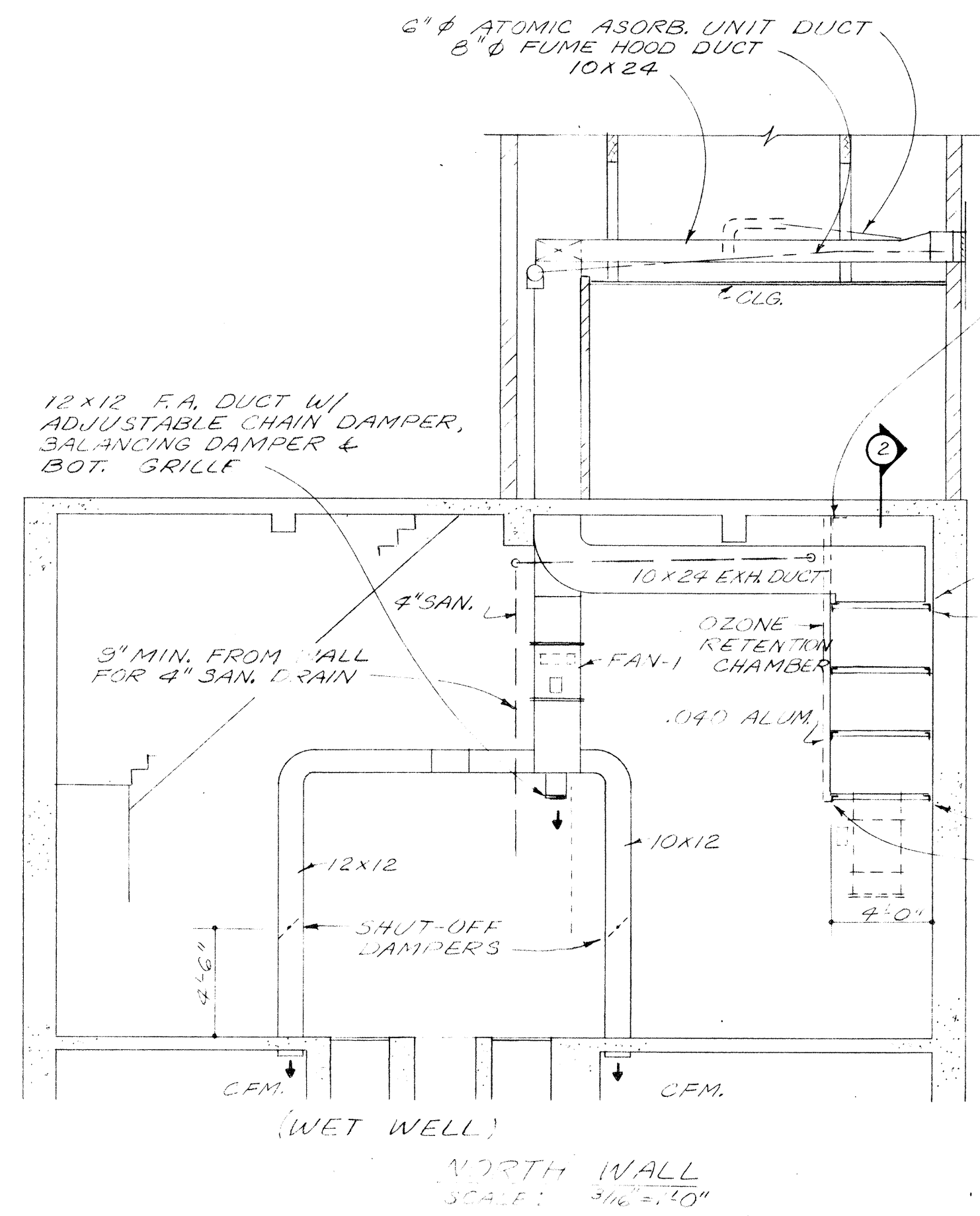
LABORATORY DETAILS (SEE SHEET #10 FOR PLAN)

BURGESS & NIPLE, LIMITED CONSULTING ENGINEERS
COLUMBUS, OHIO

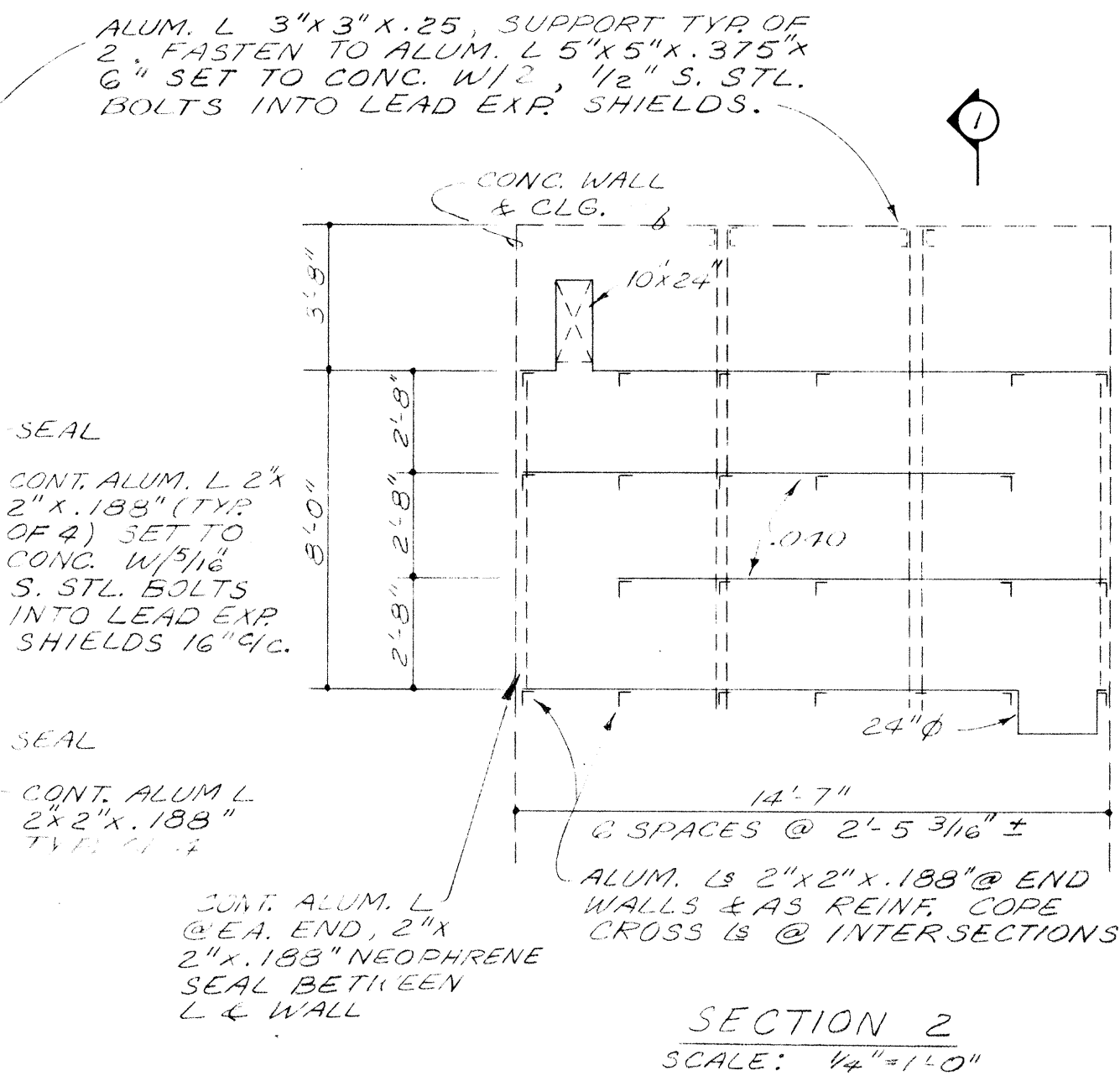
DELAWARE COUNTY, OHIO
OLENTANGY ENVIRONMENTAL CONTROL CENTER

CONTROL BUILDING
SECTION & DETAILS

REVISIONS APRIL, 1975	DRAWN BY RMW	CHECKED BY
JUNE, 1973	TRACED BY RMW	APPROVED BY
SCALE: 3/8" = 1'-0" UNLESS NOTED		SHEET 12 OF 75

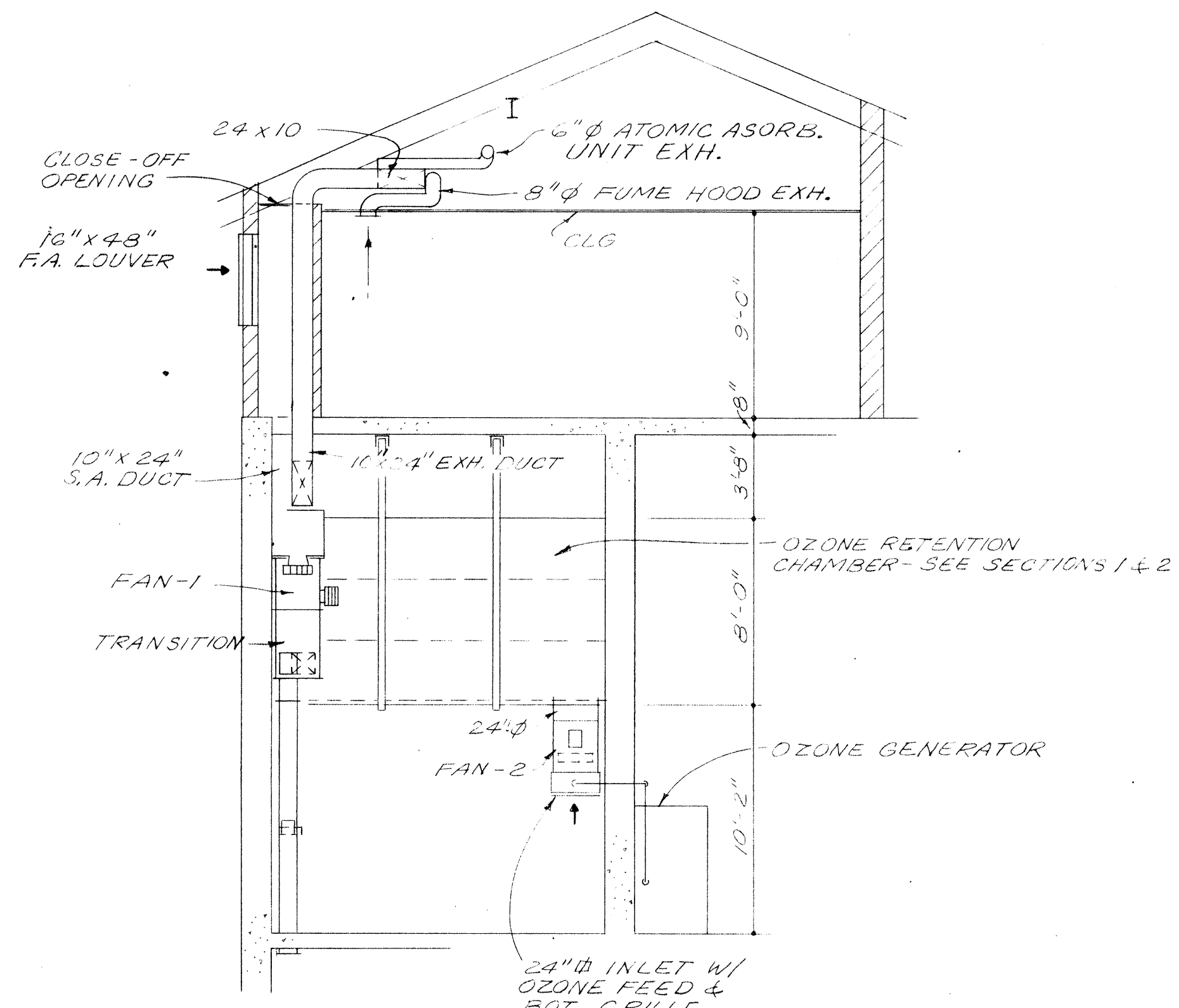


(WET WELL)
NORTH WALL
SCALE: 3/16" = 1'-0"

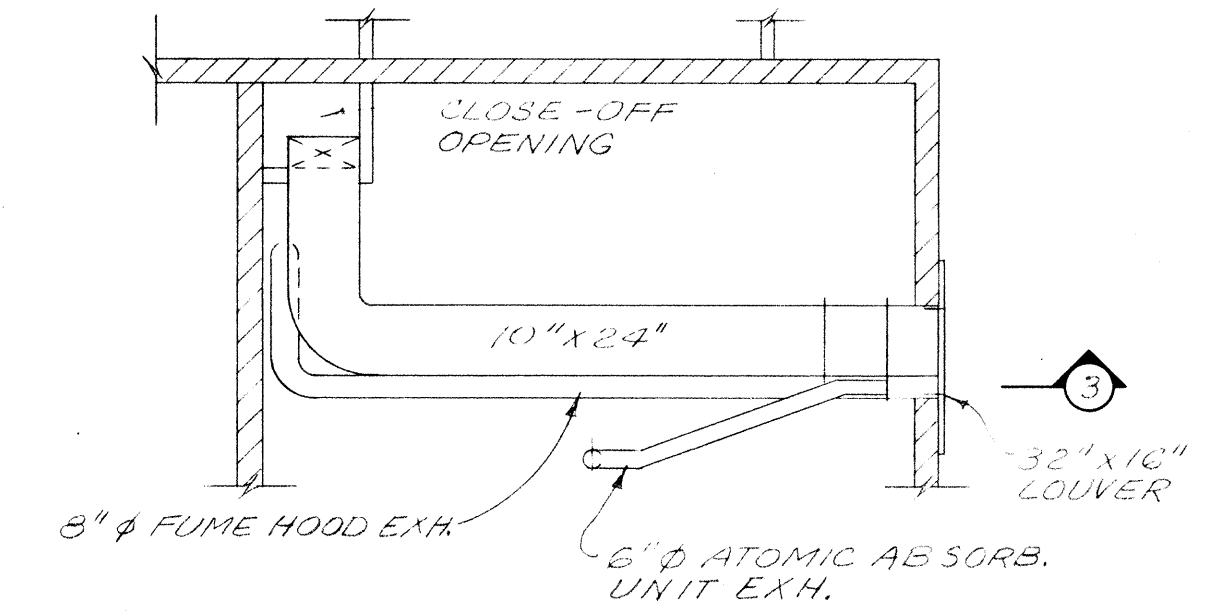


SECTION 2
SCALE: 1/4" = 1'-0"

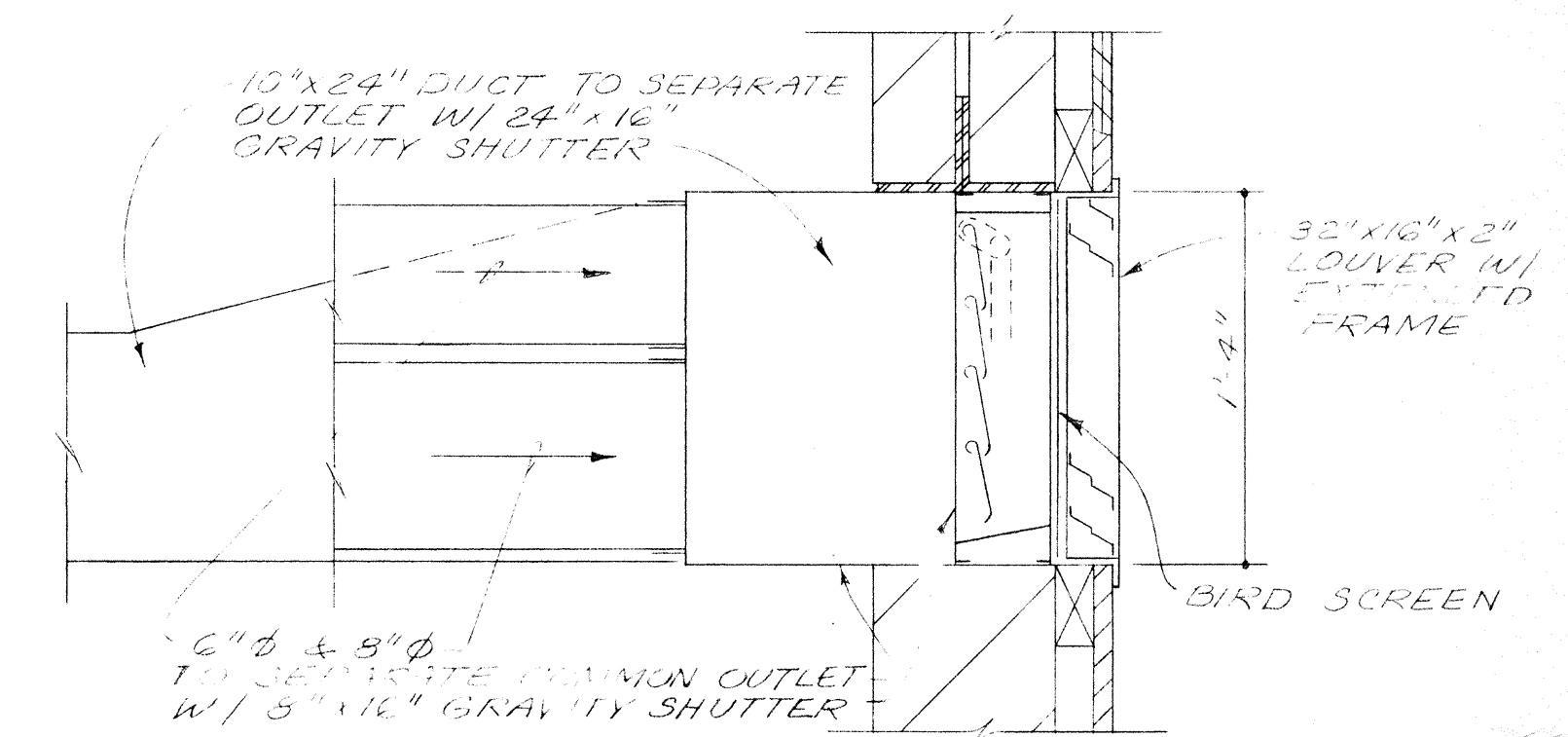
WET WELL VENTILATION - CONTROL BUILDING



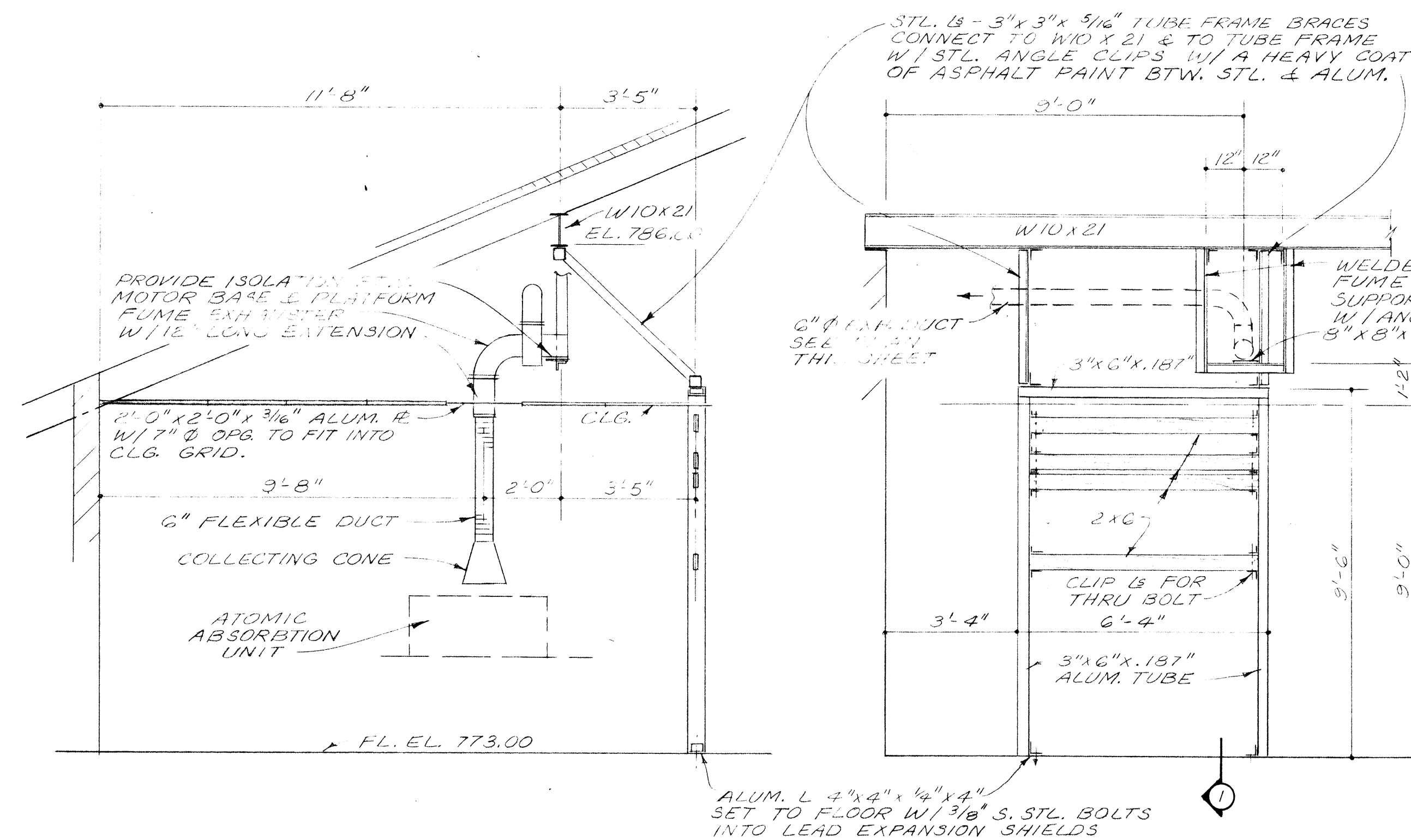
EAST WALL
SCALE: 3/16" = 1'-0"



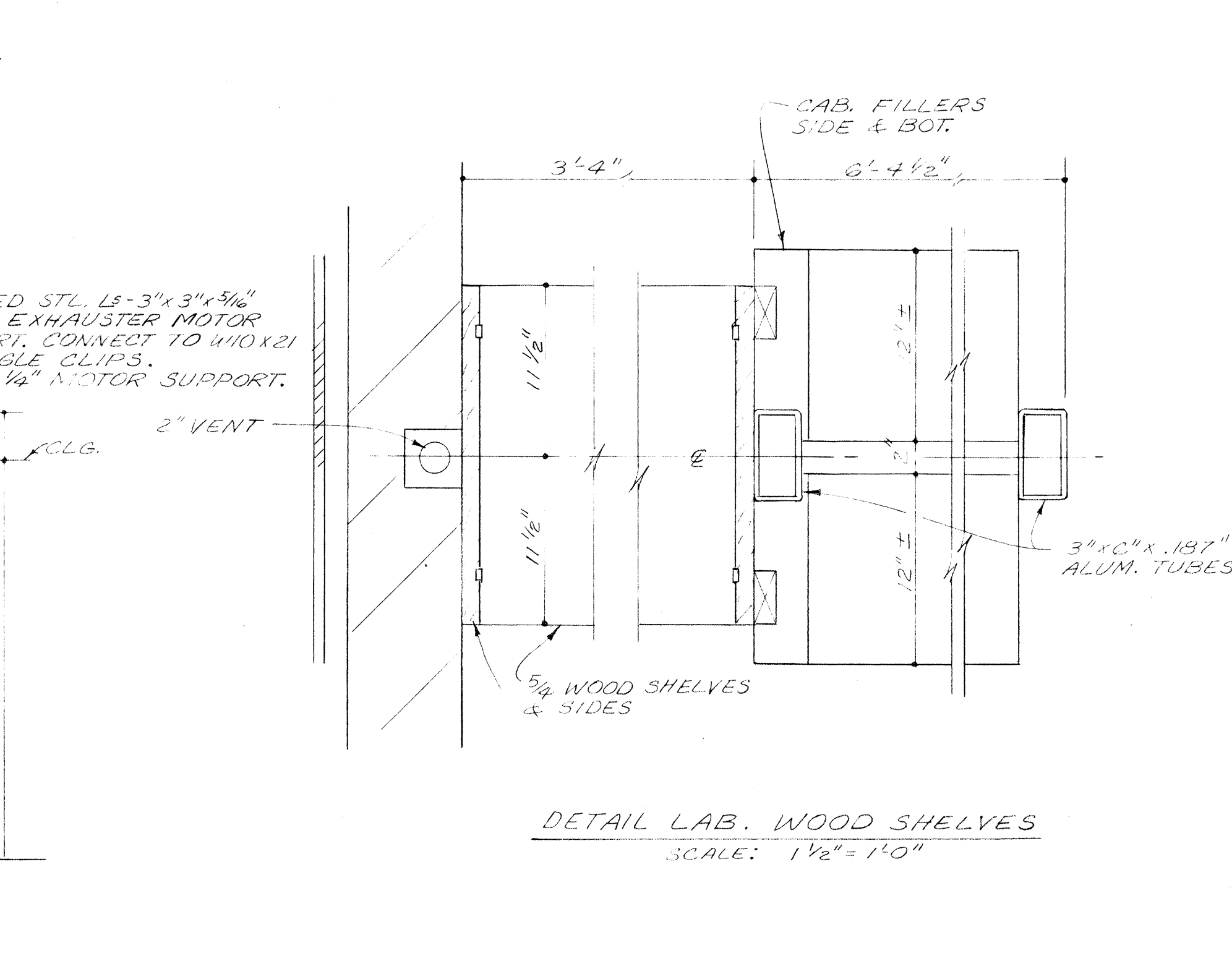
PLAN ABOVE LAB. CEILING
SCALE: 3/16" = 1'-0"



SECTION 3 (THRU LOUVER)
SCALE: 1/8" = 1'-0"



SECTION 1
ELEVATION
SUPPORT FOR LAB. CABINETS & FUME EXHAUSTER
SCALE: 3/16" = 1'-0"

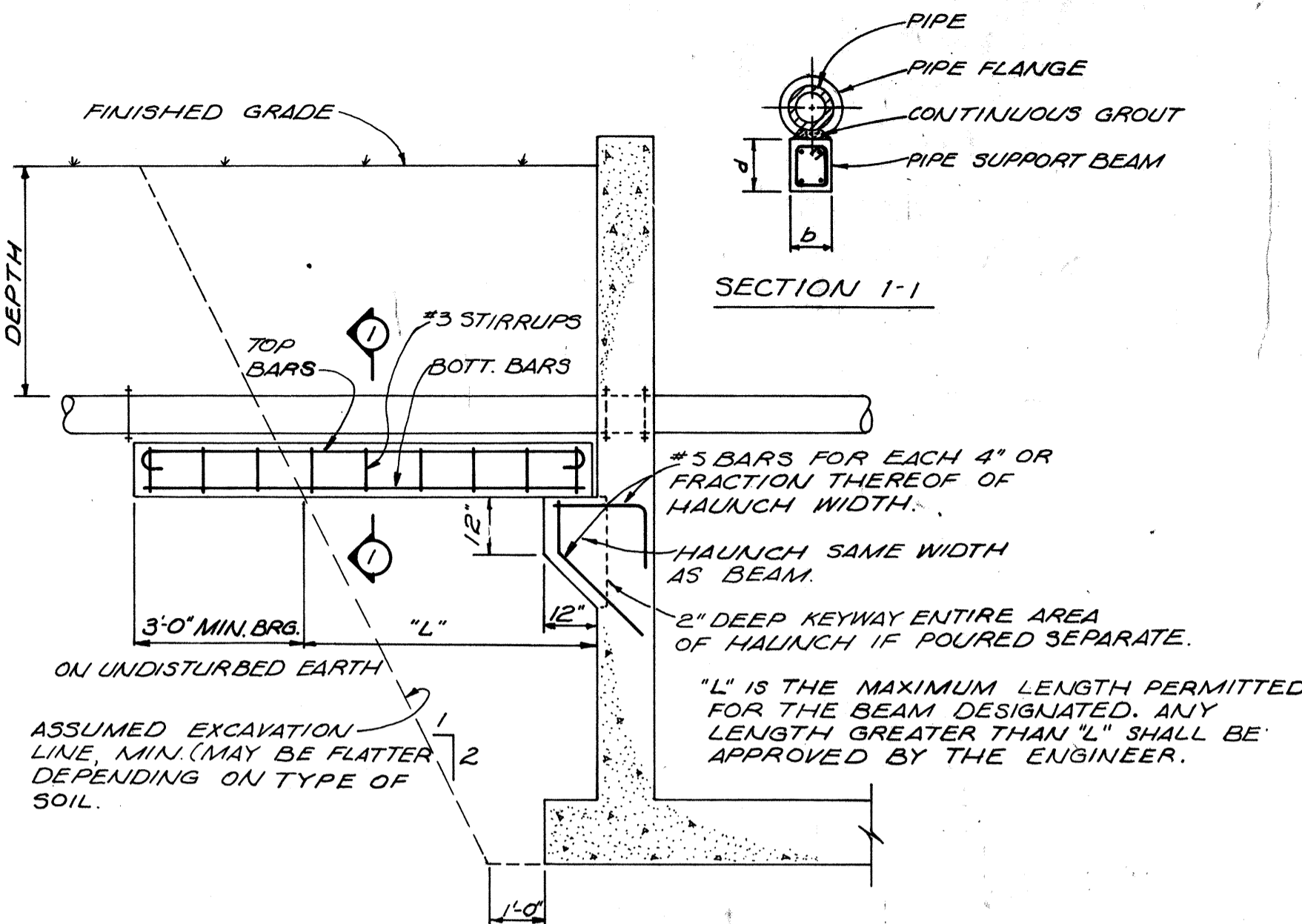


DETAIL LAB. WOOD SHELVES
SCALE: 1/2" = 1'-0"

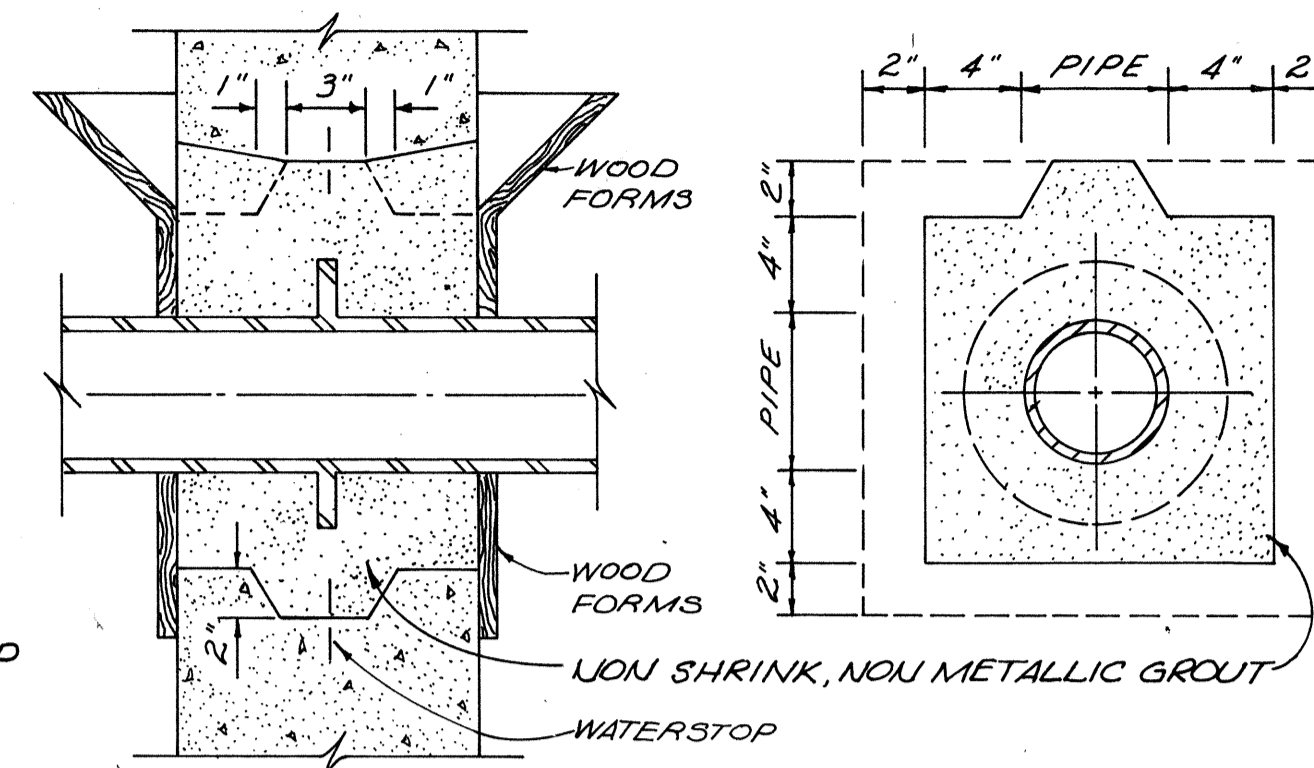
BURGESS & NIPLE, LIMITED		CONSULTING ENGINEERS
COLUMBUS, OHIO		
DELAWARE COUNTY, OHIO		
OLENTANGY ENVIRONMENTAL CONTROL CENTER		
CONTROL BUILDING		
SECTIONS & DETAILS		
REVISIONS APRIL, 1975	DRAWN BY J. J.	CHECKED BY
DATE JUNE, 1973	TRACED BY H. S.	APPROVED BY
	AS NOTED	SHEET 12-A OF 75

PIPE SUPPORT BEAM SCHEDULE

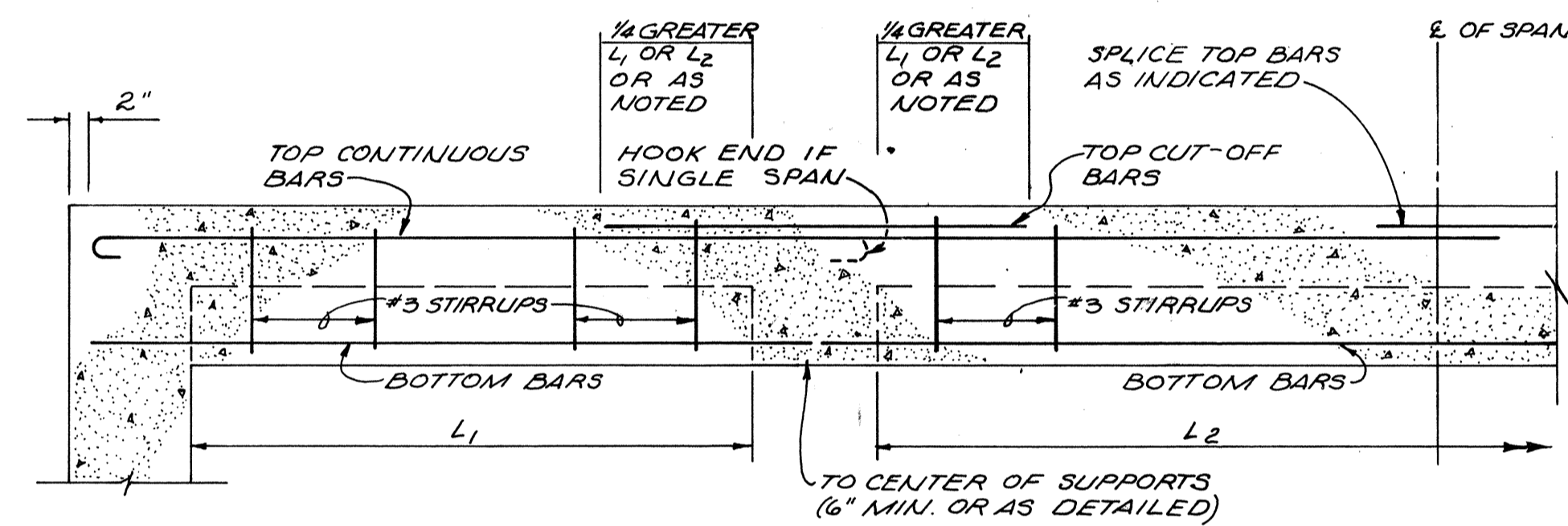
PIPE, SIZE, TYPE & LOCATION	BEAM SIZE		REINFORCING			
	b	d	MAX. LG. L	TOP No. SIZE	BOTTOM No. SIZE	#3 CLOSED STIRRUPS SPACED CONT. ALONG LENGTH OF BEAM.
CONTROL BUILDING *						
16" C.I.P. OVERFLOW, EAST SIDE OF BUILDING.	16"	16"	8'-0"	2-#6	2-#6	12"
14" C.I.P. TO AERATION TANK, WEST SIDE OF BUILDING.	14"	18"	15'-0"	2-#6	2-#8	12"
1-3/4", 1-3", 4-2", 2-1/2", 3-1", 1-3/4" ELECT. COND. SOUTH SIDE OF BLDG.	26"	14"	21'-0"	3-#6	5-#9	12"
1-2", 1-1" ELECT. COND. WEST SIDE OF BUILDING.	12"	16"	19'-0"	2-#6	4-#8	12"
1 1/2" GAS, 2" POTABLE WATER, 2" NON-POTABLE WATER, SOUTH SIDE OF BUILDING.	12"	14"	20'-0"	2-#6	2-#7	12"
BLOWER BUILDING AND AERATION TANKS						
14" C.I.P. RAW SEWAGE INF. & 2" POT. WATER, WEST SIDE OF BLDG.	16"	14"	9'-0"	2-#5	4-#5	12"
18" C.I.P. EFFLUENT TO INTERMEDIATE TANKS, EAST SIDE OF FIRST STAGE AERATION TANKS.	18"	14"	9'-0"	3-#5	4-#5	12"
18" C.I.P. EFFLUENT TO FINAL TANKS, EAST SIDE OF 2ND STAGE AERATION TANKS.	18"	14"	9'-0"	3-#5	4-#5	12"
6" C.I.P. WASTE ACTIVATED SLUDGE TO AEROBIC DIGESTER, 2 REQ'D. EAST SIDE OF BUILDING.	12"	12"	9'-0"	2-#5	4-#5	12"
10" C.I.P. AIR TO AEROBIC DIGESTER, EAST SIDE OF BUILDING.	12"	12"	11'-0"	2-#5	4-#5	12"
3-1" BLACK IRON FUEL LINES, WEST SIDE OF BUILDING.	12"	12"	11'-0"	2-#5	4-#5	12"
4-5", 1-1" ELECT. CONDUITS WEST SIDE OF BUILDING.	30"	12"	9'-0"	3-#5	6-#5	12"
3-3/4", 1-3", 5-2", 6-1/2", 4-1" ELECT. CONDUITS, 1/2" GAS, 2" NON-POTABLE WATER EAST SIDE OF BUILDING.	48"	12"	10'-0"	4-#5	8-#5	12"
INTERMEDIATE CLARIFIERS						
1-2" ELECT. CONDUIT, WEST SIDE OF BUILDING.	12"	12"	8'-0"	2-#5	3-#5	12"
FINAL CLARIFIERS						
1-2" ELECT. CONDUIT, WEST SIDE OF BUILDING.	12"	12"	8'-0"	2-#5	3-#5	12"
TERTIARY BUILDING						
2" GAS, 4" NON-POTABLE WATER, WEST SIDE OF BLD'G.	12"	12"	8'-0"	2-#5	3-#5	12"
2" POTABLE WATER NORTH SIDE BLDG.	12"	12"	8'-0"	2-#5	3-#5	12"
2-3/4", 1-2", 3-1/2", 1-1/4", 2-1" ELECT. CONDUITS, NORTH SIDE OF BUILDING.	16"	12"	10'-0"	2-#5	4-#5	12"
CONCENTRATOR BUILDING						
10" C.I.P. AIR TO AEROBIC DIGESTER, 6" C.I.P. WASTE SLUDGE FROM BLOWER BLDG. WEST SIDE OF BUILDING.	30"	12"	8'-0"	3-#5	6-#6	12"
1" GAS, 3" NON-POTABLE WATER, EAST SIDE OF BLDG.	12"	12"	8'-0"	2-#5	3-#5	12"
4-2", 2-1/2", 1-1/4", 2-1" ELECT. CONDUITS, SOUTH SIDE OF BUILDING.	16"	12"	10'-0"	2-#5	4-#5	12"
2" POTABLE WATER EAST SIDE BLDG.	12"	12"	8'-0"	2-#5	3-#5	12"
SCREW PUMP BUILDING						
1" NON-POTABLE WATER, 2-1/2", 1-1/4" ELECT. CONDUITS WEST SIDE OF BUILDING	OVER COMPACTED GRANULAR BACKFILL					
CONTROL BUILDING *						
1" NON-POTABLE WATER, 1/2" CHLORINE SOLUTION NORTH SIDE OF BUILDING	12"	14"	16'	2-#5	3-#8	12"



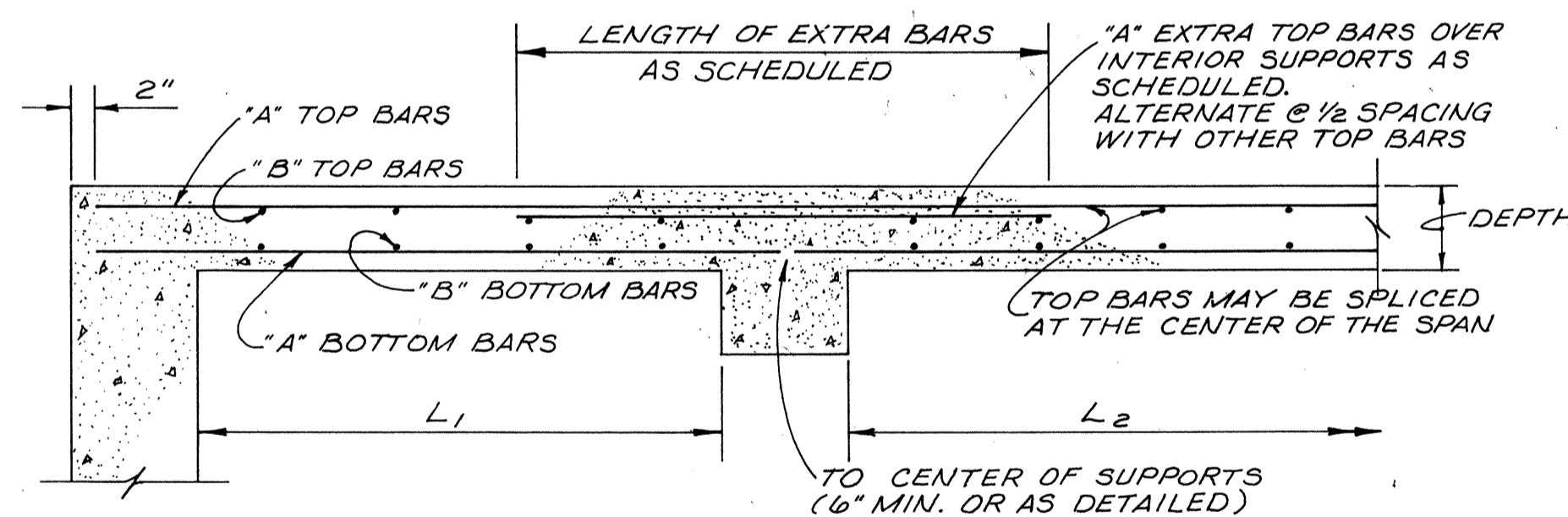
TYPICAL PIPE SUPPORT BEAM DETAIL



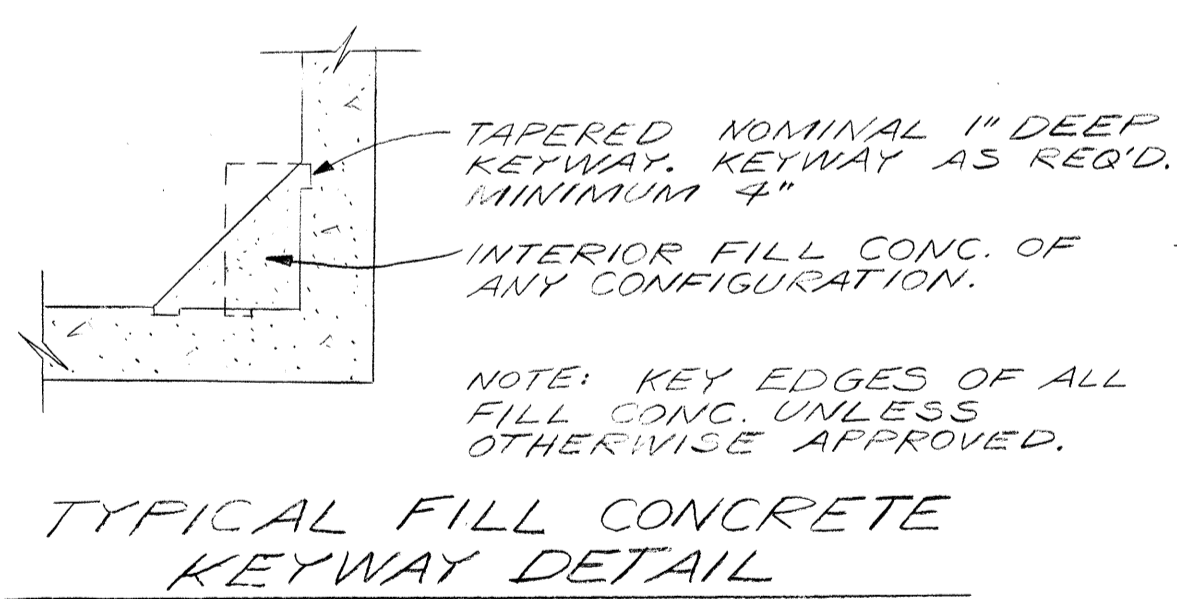
STANDARD BOX-OUT DETAIL



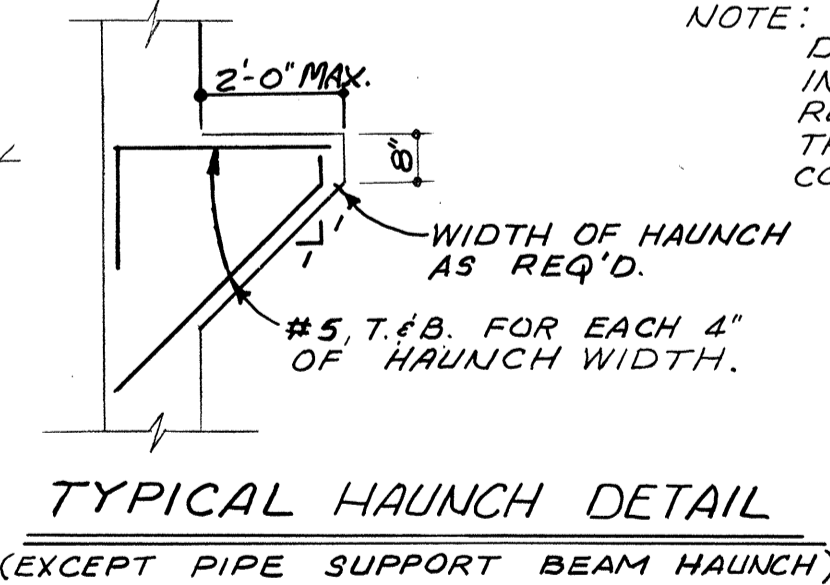
CONCRETE BEAM DETAIL



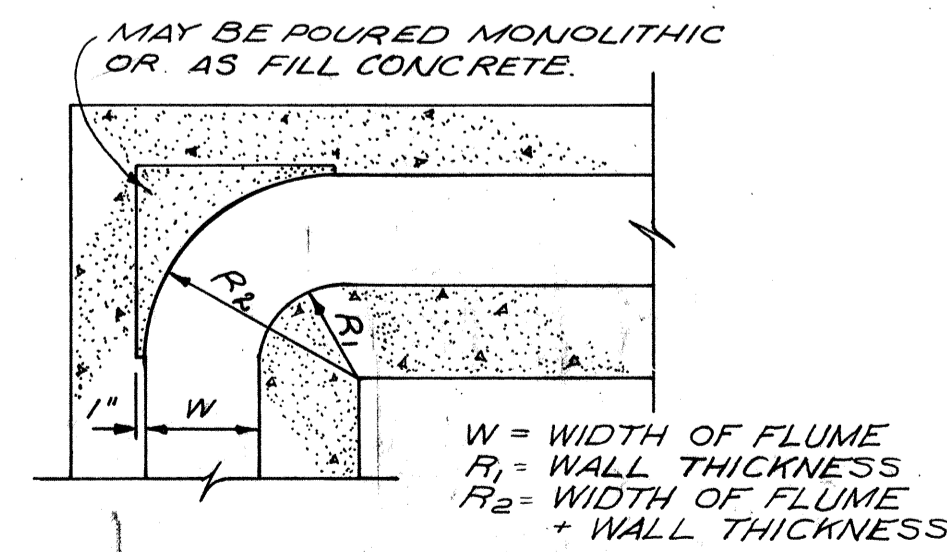
CONCRETE SLAB DETAIL



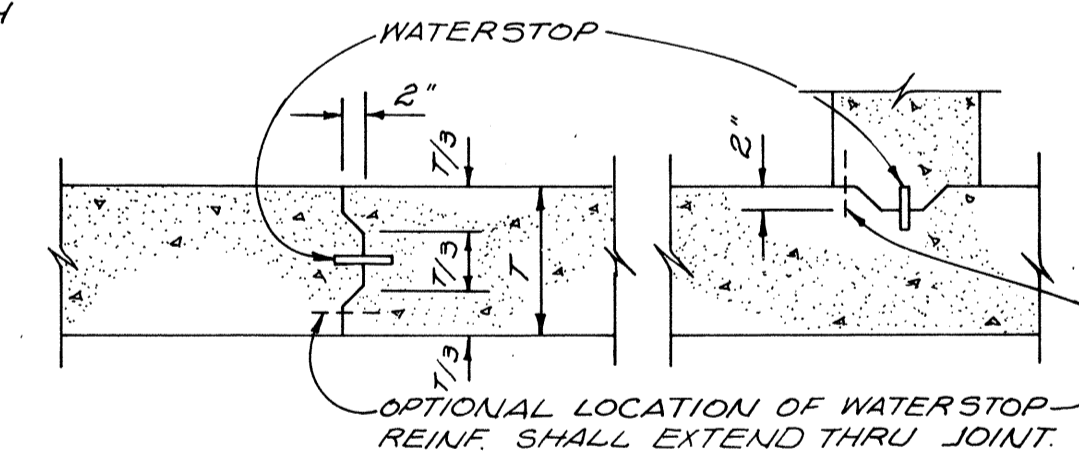
TYPICAL FILL CONCRETE KEYWAY DETAIL



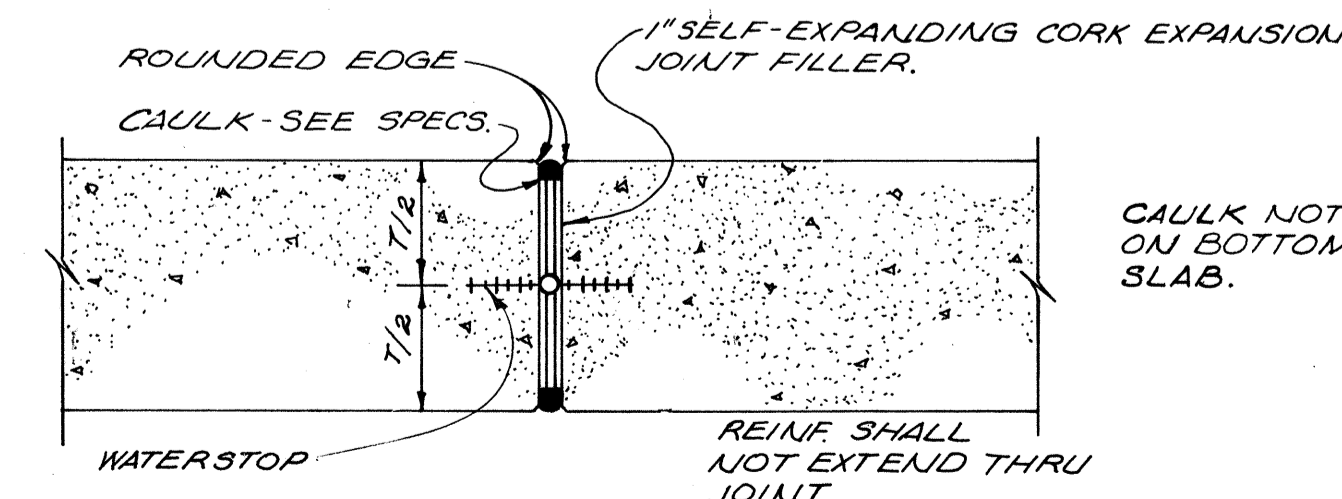
TYPICAL HAUNCH DETAIL (EXCEPT PIPE SUPPORT BEAM HAUNCH)



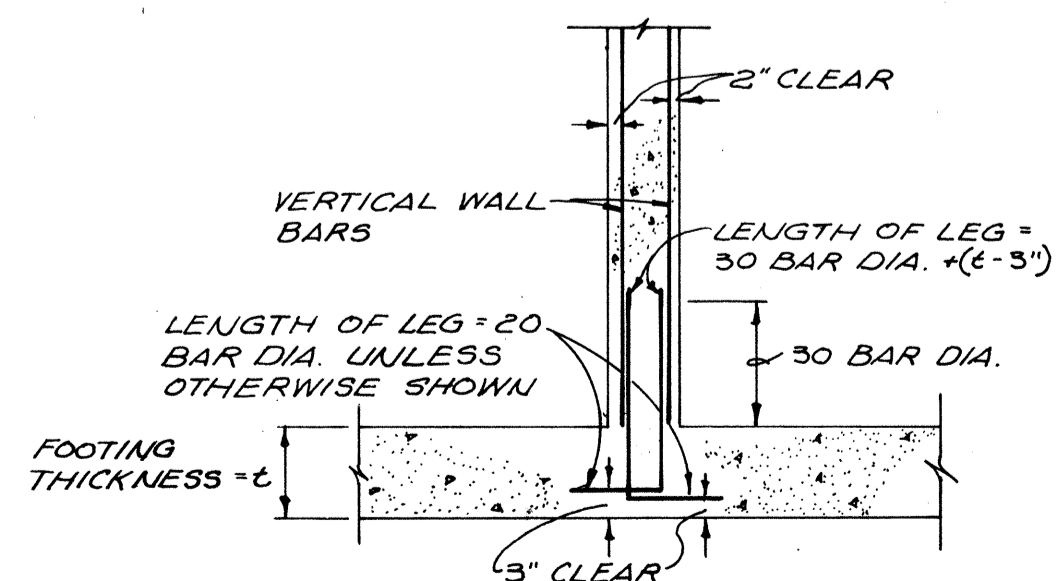
TYPICAL FLUME CORNER DETAIL



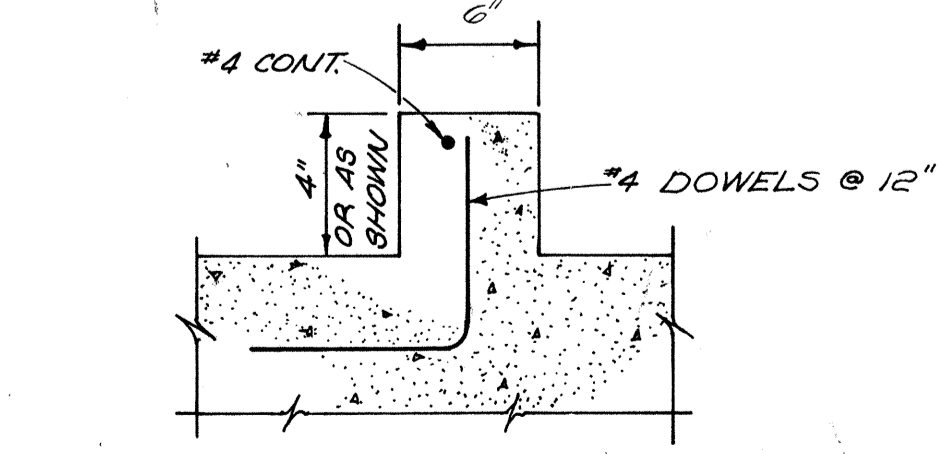
TYPICAL CONSTRUCTION JOINT DETAIL



TYPICAL EXPANSION JOINT DETAIL



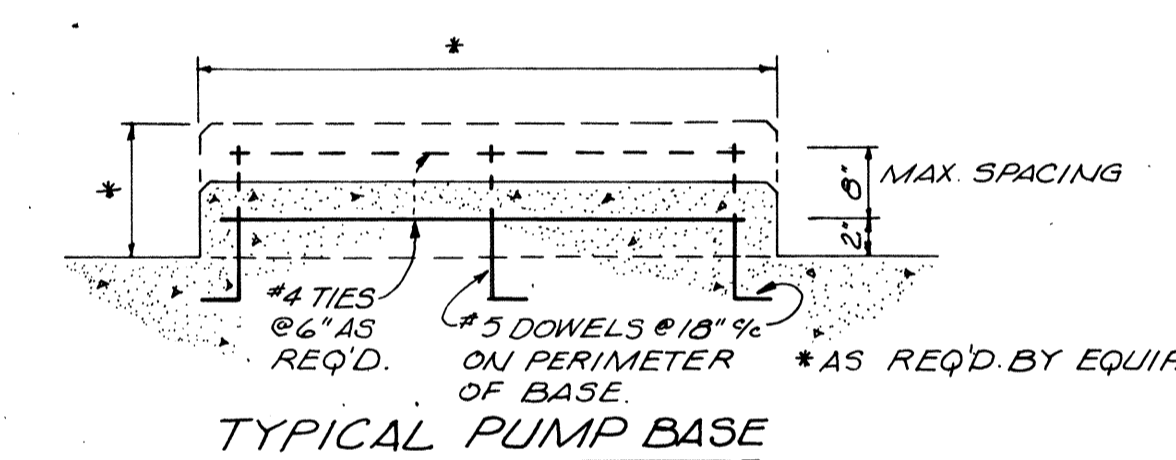
TYPICAL FOOTING DOWEL DETAIL



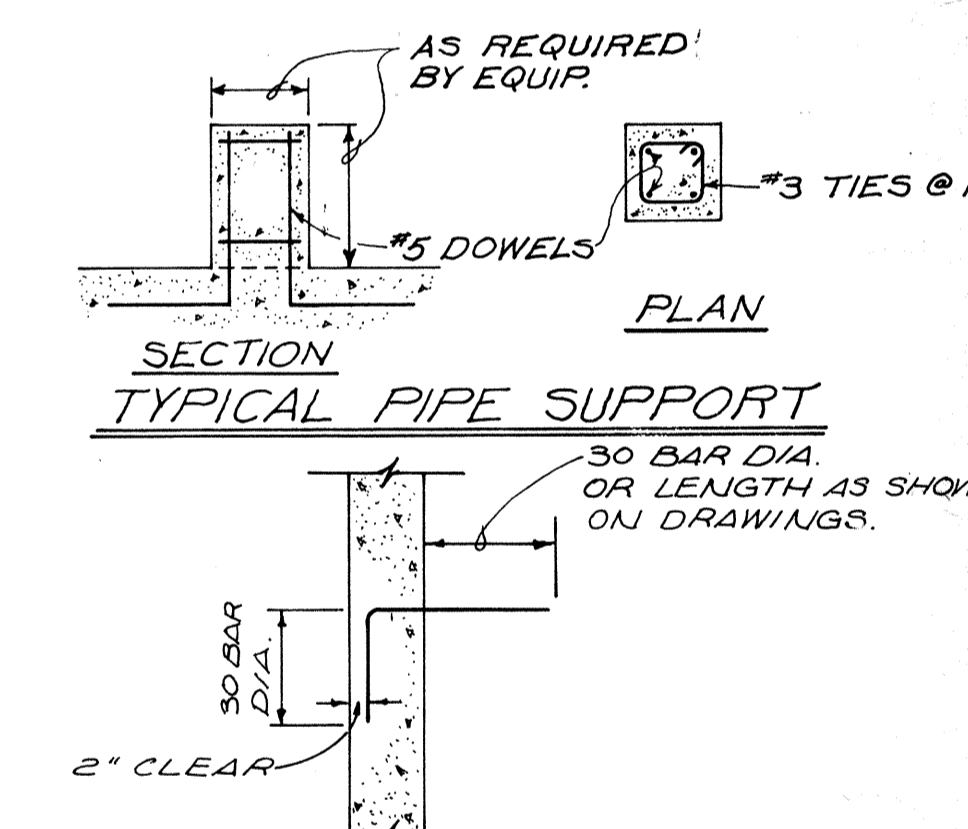
TYPICAL CURB DETAILS

NOTES

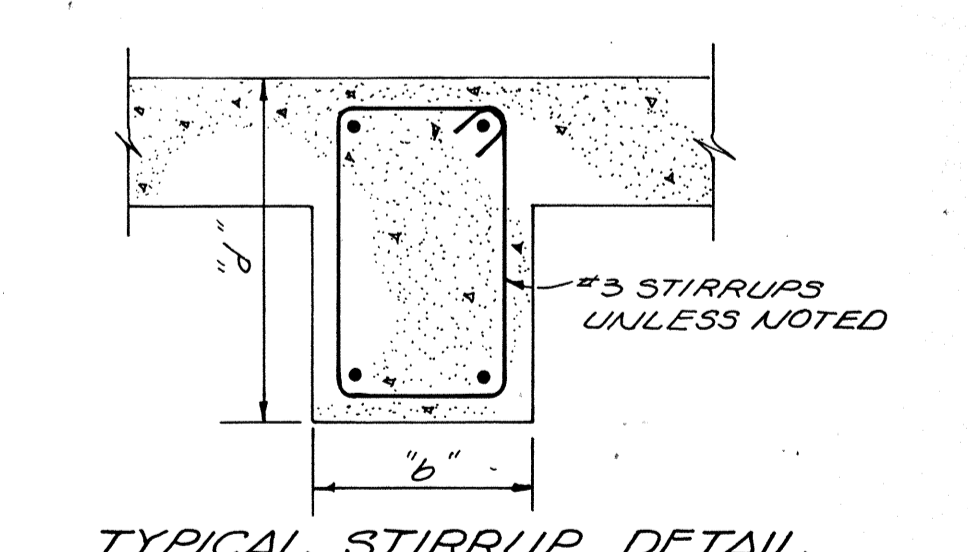
- STANDARD DETAILS AND NOTES APPLY TO ALL STRUCTURES AND BUILDINGS UNLESS OTHERWISE NOTED.
- DURING CONSTRUCTION, ALL TANKS ARE BUOYANT WHEN EMPTY. IN THE EVENT THAT THE EXCAVATION BECOMES FLOODED OR THE SURROUNDING GROUND BECOMES SATURATED, THE TANKS MUST BE FILLED WITH WATER TO PREVENT FLOATATION.
- ALL NON-REINFORCED CORNERS OF EXPOSED CONCRETE COLUMNS, BEAMS, PIERS, AND WALLS SHALL HAVE A 3/4" x 45° CHAMFER.
- SEE SPECIFICATIONS FOR CLEARANCES FOR ALL REINFORCING BARS.
- IN TWO WAY SOLID SLABS, PLACE SHORT SPAN BARS NEAREST TO THE SURFACE OF THE CONCRETE, UNLESS OTHERWISE SHOWN.
- TEMPERATURE STEEL SHALL BE PLACED FURTHEST FROM THE SURFACE OF THE CONCRETE.
- ALL REINFORCING STEEL LAPS AND SPLICES SHALL BE 30 BAR DIAMETERS AND NOT LESS THAN 12" UNLESS OTHERWISE NOTED OR SCHEDULED.
- ALL JOINTS SHALL BE LOCATED WHERE SHOWN ON THE DRAWINGS. NO HORIZONTAL JOINTS SHALL BE MADE IN SLABS OR BEAMS. CONSTRUCTION JOINTS REQUESTED BY THE CONTRACTOR AND NOT INDICATED ON THE DRAWINGS MUST BE APPROVED BY THE ENGINEER.
- ALL ALUMINUM IN CONTACT WITH CONCRETE OR DISSIMILAR METALS SHALL BE COATED WITH TWO COATS OF BITUMASTIC.
- WATERSTOP FOR HORIZONTAL CONSTRUCTION JOINTS SHALL BE PVC SERRATED TYPE WITHOUT CENTER BULB, NOT LESS THAN 6" WIDTH AND 3/8" THICK, OR 1/2 GAUGE GALVANIZED STEEL 5" WIDTH. WATERSTOP FOR VERTICAL CONSTRUCTION JOINTS SHALL BE PVC SERRATED TYPE WITHOUT CENTER BULB, NOT LESS THAN 6" WIDTH AND 3/8" THICK OR 20 OZ. COPPER OF A DESIGN APPROVED BY THE ENGINEER.
- PVC WATERSTOP FOR CONSTRUCTION JOINTS SHALL BE SERVICISED/ DURAJOINT NO.15; WATER SEALS INC OR EQUAL WITH ALL JOINTS SPLICED. JOINTS OF METAL WATERSTOPS SHALL BE LAPPED AT LEAST 4".
- WATERSTOP FOR EXPANSION JOINTS SHALL BE PVC SERRATED TYPE, NOT LESS THAN 9" WIDTH AND 3/8" THICK, SERVICISED/ DURAJOINT NO.7; WATER SEALS INC. OR EQUAL WITH ALL JOINTS SPLICED.
- GROUT FOR TANK BOTTOMS AND FLUMES SHALL BE CLASS B (3:1 BY VOLUME). TANK GROUT SHALL BE SCREEDED BY PROCESS EQUIPMENT.



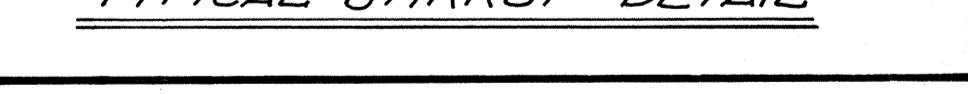
TYPICAL PUMP BASE



TYPICAL PIPE SUPPORT



TYPICAL WALL DOWEL DETAIL



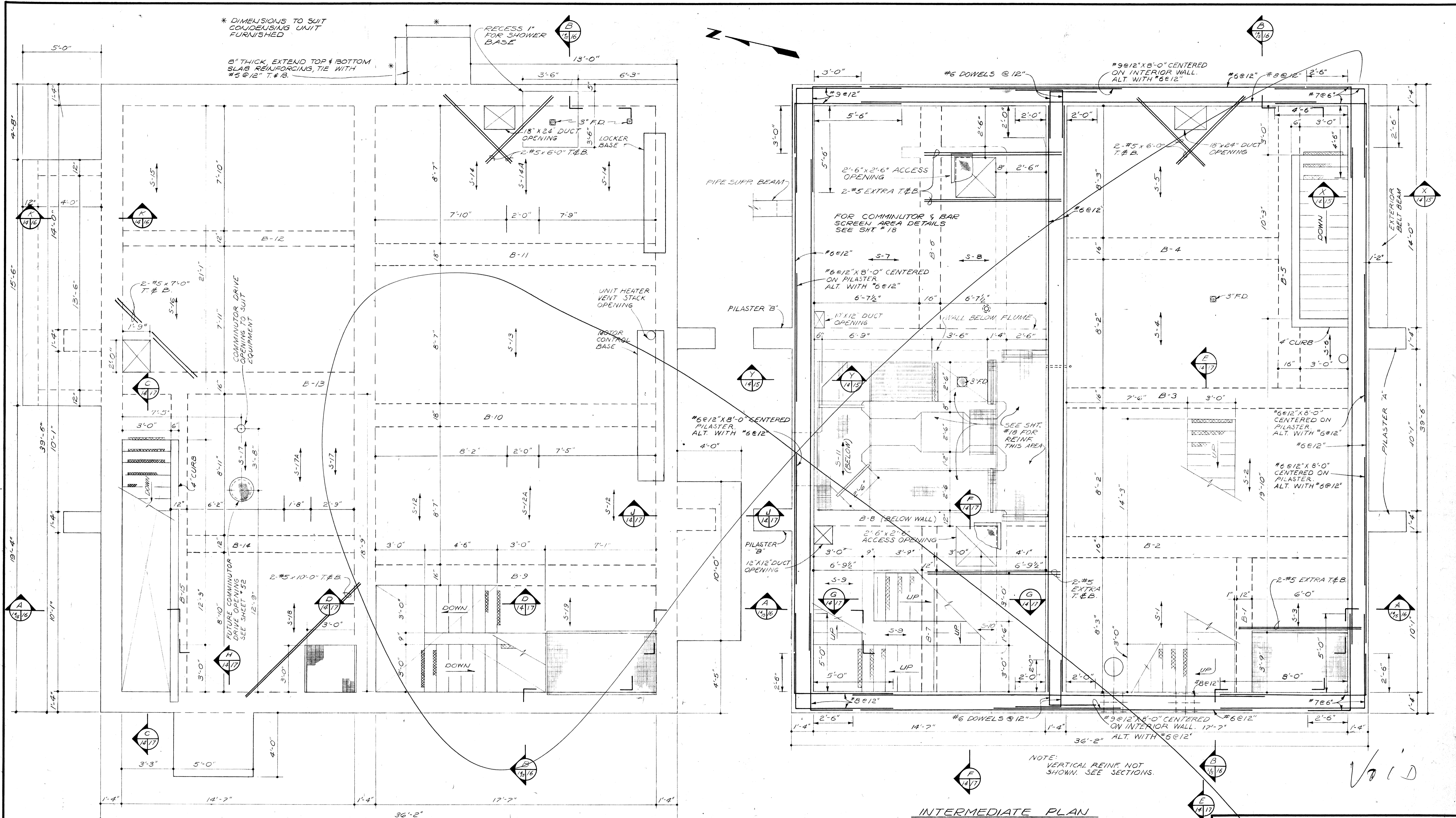
TYPICAL STIRRUP DETAIL

BURGESS & NIPLE, LIMITED CONSULTING ENGINEERS
COLUMBUS, OHIO

DELAWARE COUNTY, OHIO
OLENTANGY ENVIRONMENTAL CONTROL CENTER

CONCRETE & REINFORCING STEEL
MISCELLANEOUS DETAILS

REVISIONS APRIL, 1975	DRAWN BY A.S. TRACED BY R.M.W.	CHECKED BY
JUNE, 1973	SCALE: NONE	APPROVED BY
		SHEET 13 OF 75



* DIMENSIONS TO SUIT
CONDENSING UNIT
FURNISHED

8" THICK, EXTEND TOP & BOTTOM
SLAB REINFORCING, TIE WITH
#5 @ 12" T. & B.

RECESS 1"
FOR SHOWER
BASE

COMMINUTOR DRIVE
OPENING TO SUIT
EQUIPMENT

UNIT HEATER
VENT STACK
OPENING

FUTURE COMMINUTOR
DRIVE OPENING
SEE SHEET # 32

PIPE SUPP. BEAM

PILASTER 'B'

#6 @ 12" X 8'-0" CENTERED
ON PILASTER.
ALT. WITH #6 @ 12"

PILASTER 'B'

PILASTER 'B'

PILASTER 'B'

#6 DOWELS @ 12"

#9 @ 12" X 8'-0" CENTERED
ON INTERIOR WALL.
ALT. WITH #6 @ 12"

#6 @ 12" #8 @ 12" 2'-6"

FOR COMMINUTOR & BAR
SCREEN AREA DETAILS
SEE SHT # 18

#6 @ 12" X 8'-0" CENTERED
ON PILASTER.
ALT. WITH #6 @ 12"

SEE SHT.
18 FOR
REINFORCING
THIS AREA

#6 @ 12" X 8'-0" CENTERED
ON PILASTER.
ALT. WITH #6 @ 12"

#6 @ 12" X 8'-0" CENTERED
ON PILASTER.
ALT. WITH #6 @ 12"

#9 @ 12" X 8'-0" CENTERED
ON INTERIOR WALL. 17'-7"
36'-2" ALT. WITH #5 @ 12"

NOTE:
VERTICAL REINFORCING NOT
SHOWN. SEE SECTIONS.

INTERMEDIATE PLAN

UPPER PLAN

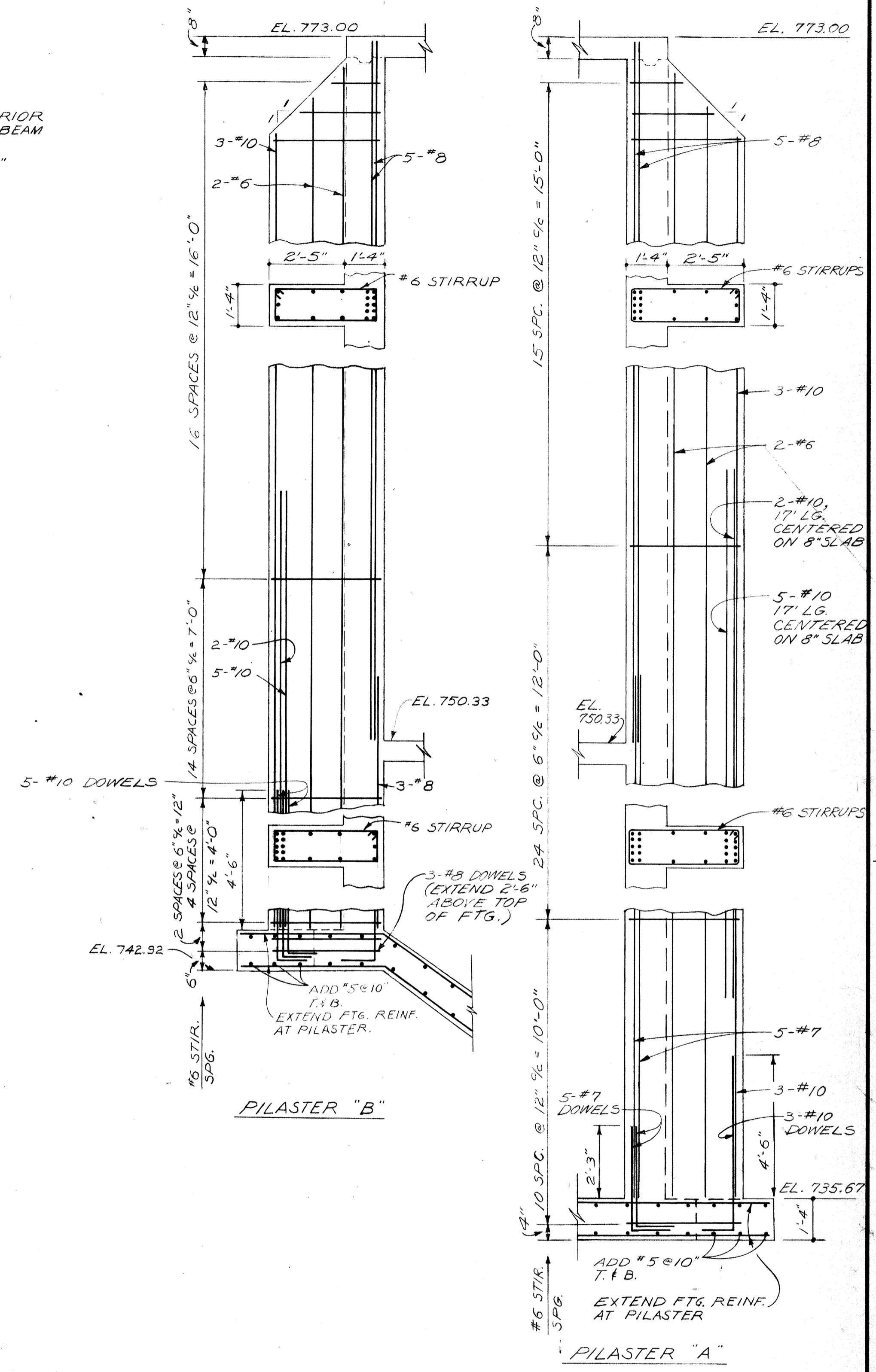
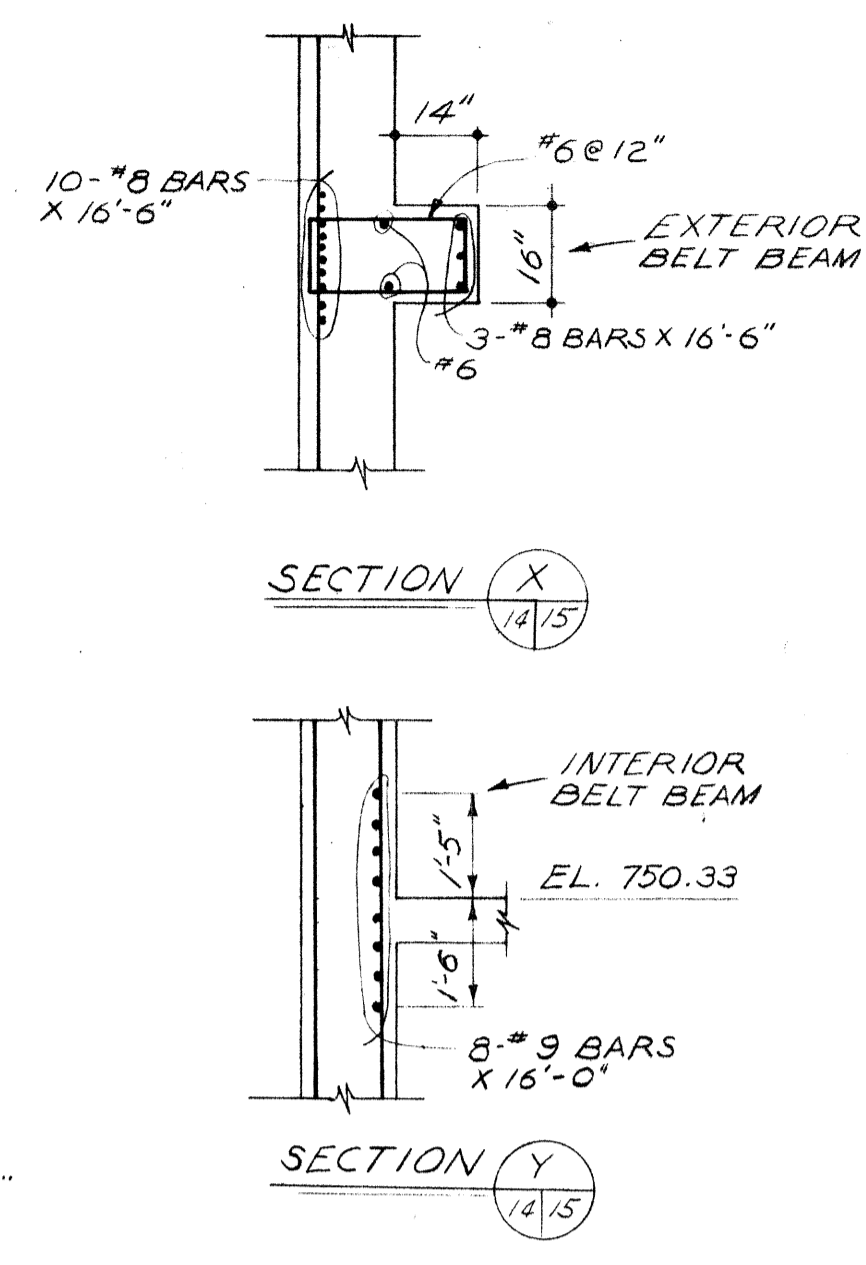
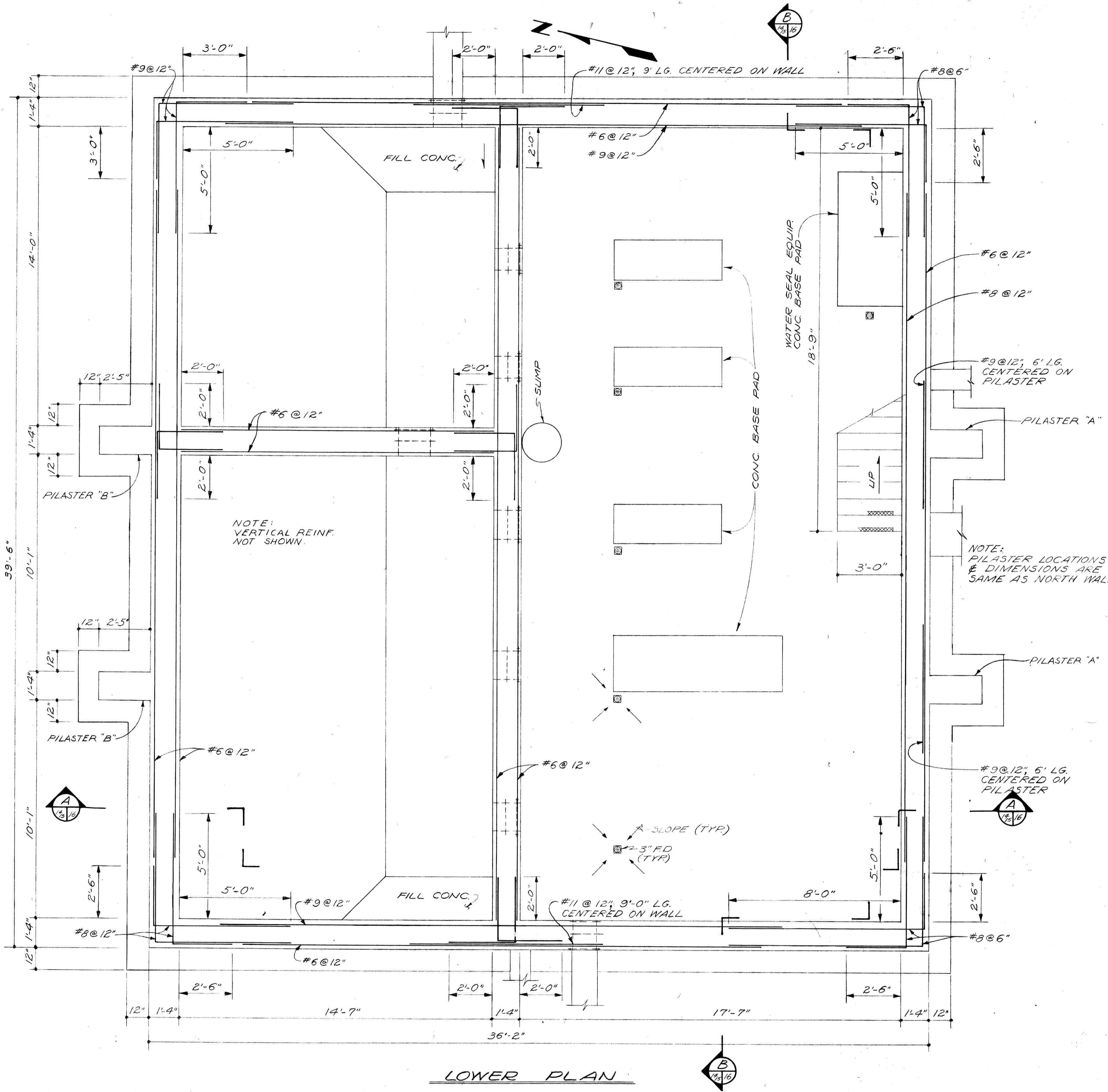
NOTE:
HANDRAIL NOT SHOWN. SEE MECHANICAL
DRAWINGS FOR ARRANGEMENT.

BURGESS & NIPLE, LIMITED CONSULTING ENGINEERS
COLUMBUS, OHIO

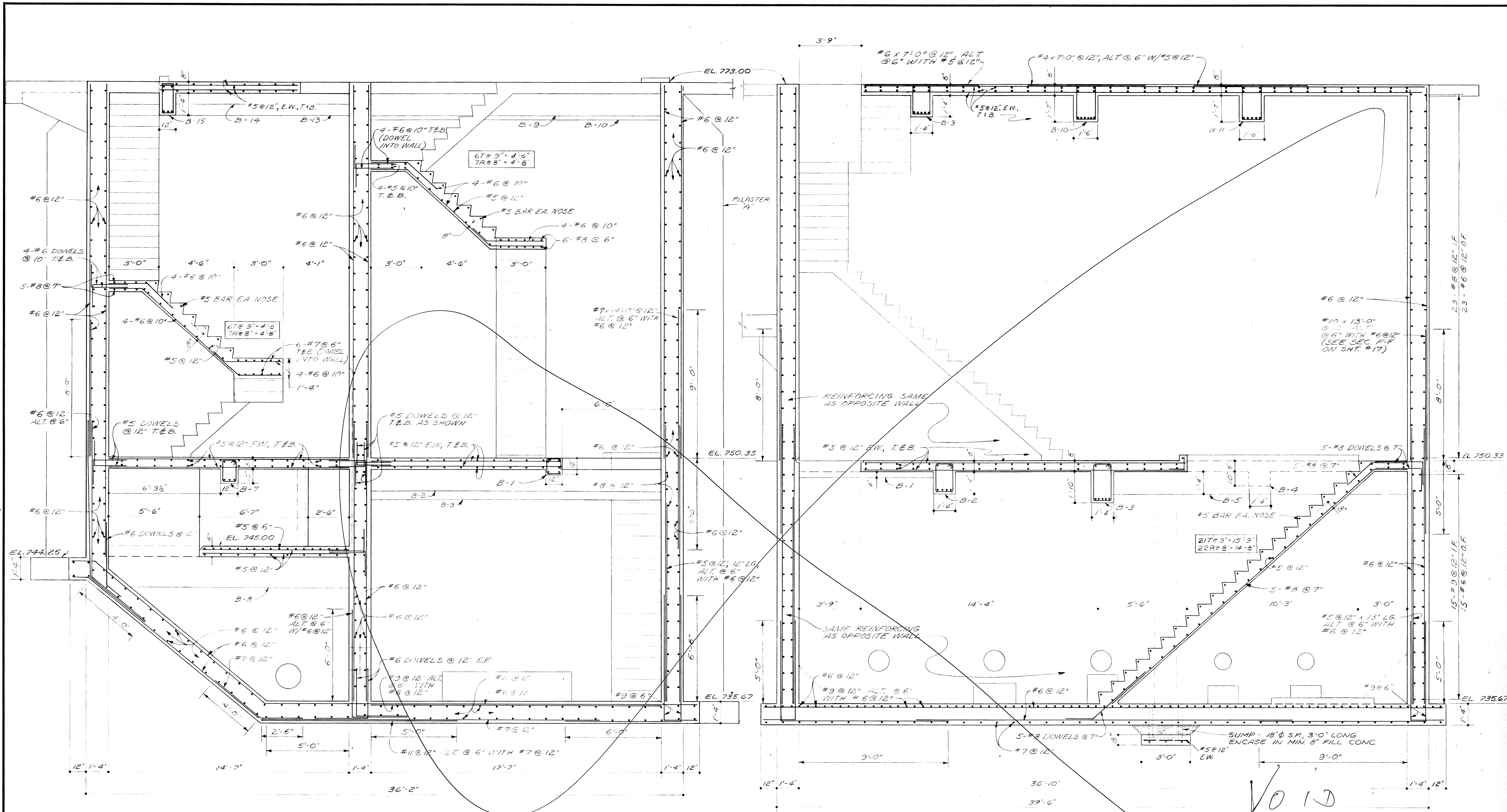
DELAWARE COUNTY, OHIO
OLENTANGY ENVIRONMENTAL CONTROL CENTER
CONCRETE & REINFORCING STEEL
CONTROL BUILDING

REVISIONS APRIL, 1975	DRAWN BY TRACED BY WAW/HTK	CHECKED BY
JUNE, 1973	SCALE: 3/8" = 1'-0"	APPROVED BY
		SHEET 14 OF 75

V.O.D.

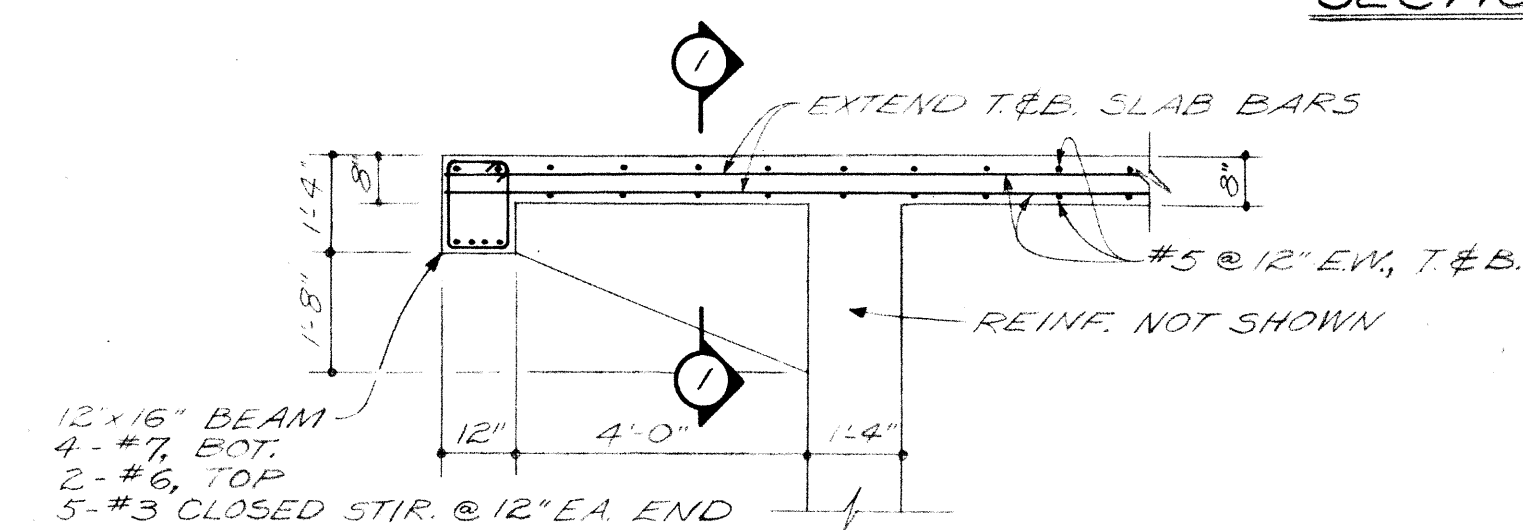


BURGESS & NIPLE, LIMITED CONSULTING ENGINEERS COLUMBUS, OHIO		
DELAWARE COUNTY, OHIO OLENTANGY ENVIRONMENTAL CONTROL CENTER CONCRETE & REINFORCING STEEL CONTROL BUILDING		
REVISIONS APRIL, 1975	DRAWN BY <i>RMW</i> TRACED BY <i>RMW/G.M.D.</i>	CHECKED BY APPROVED BY
JUNE, 1973	SCALE: 3/8" = 1'-0"	SHEET 15 OF 75

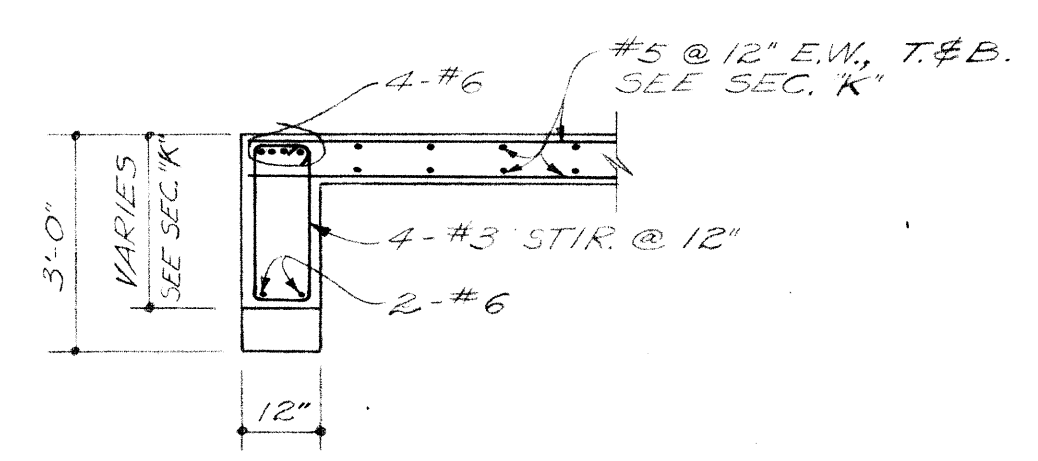


SECTION A
1/2" = 1'-0"

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



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

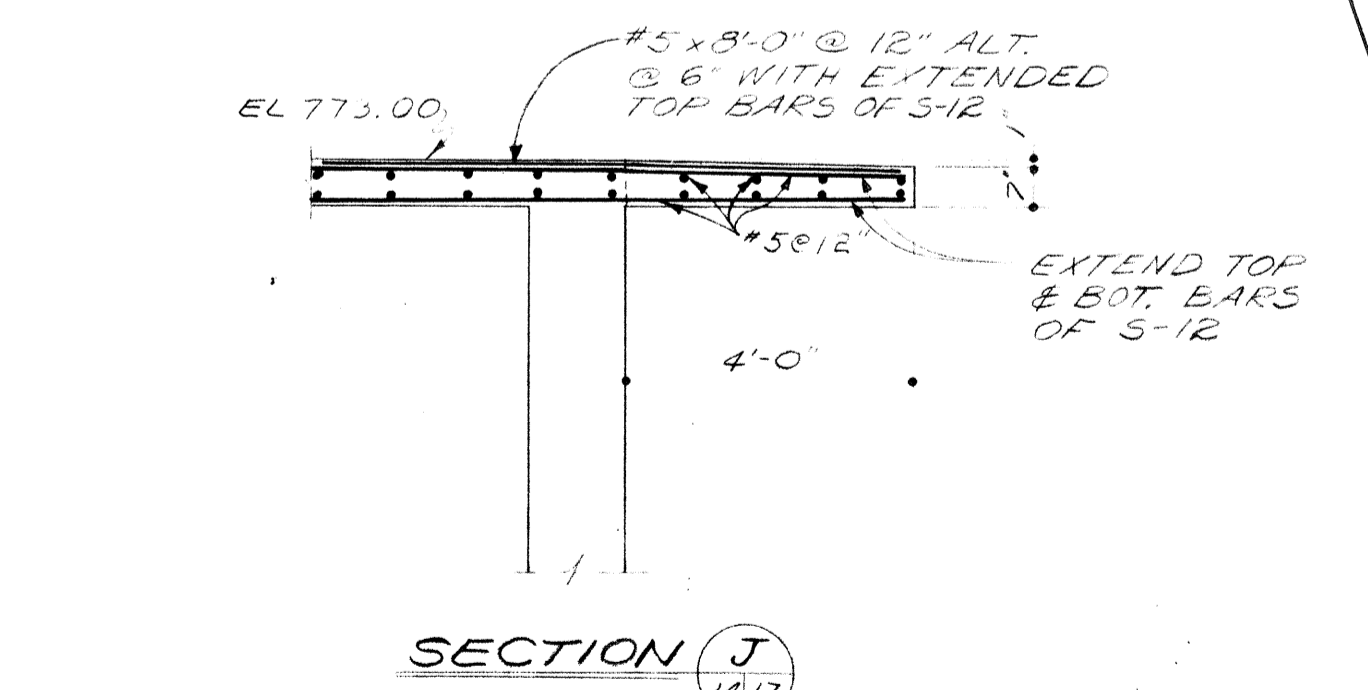
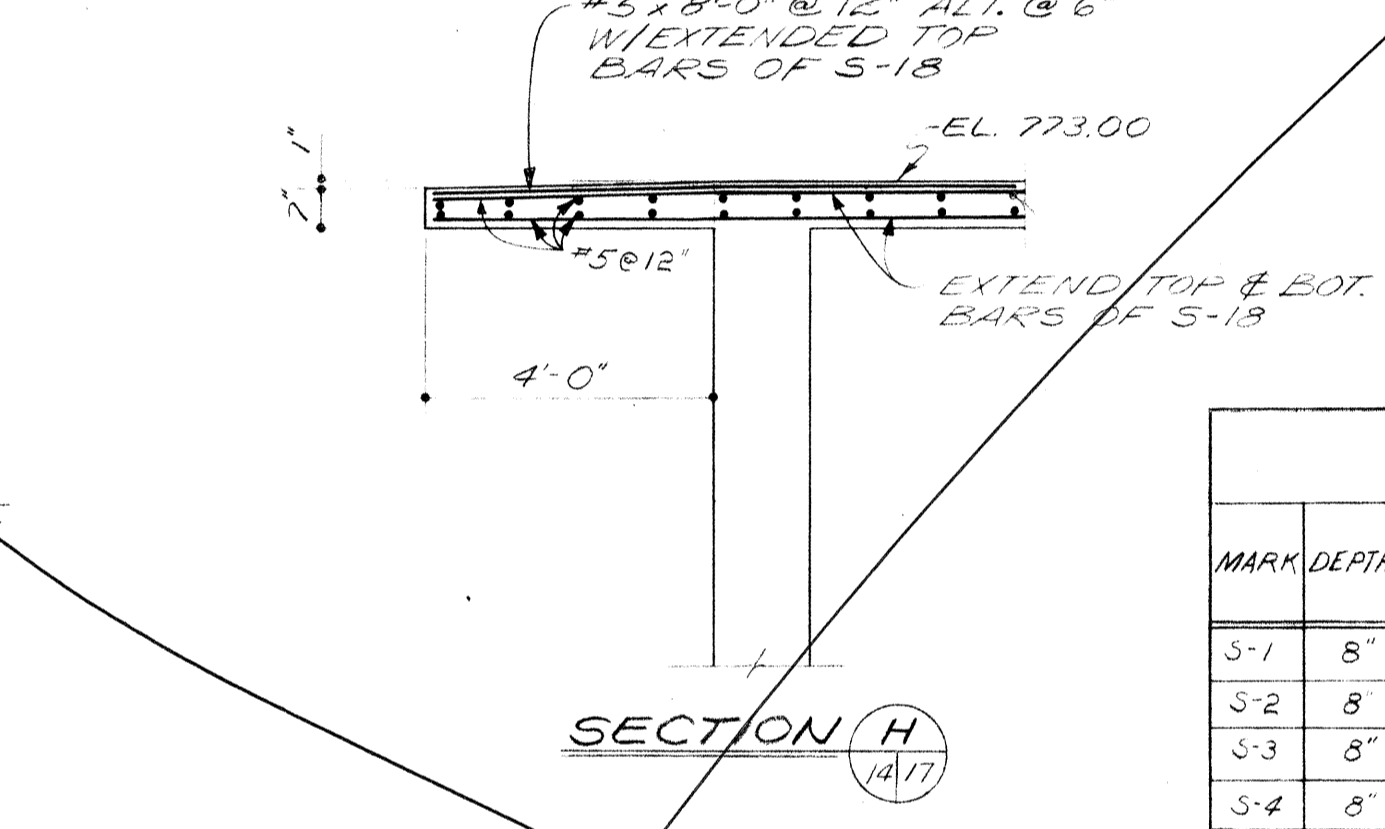
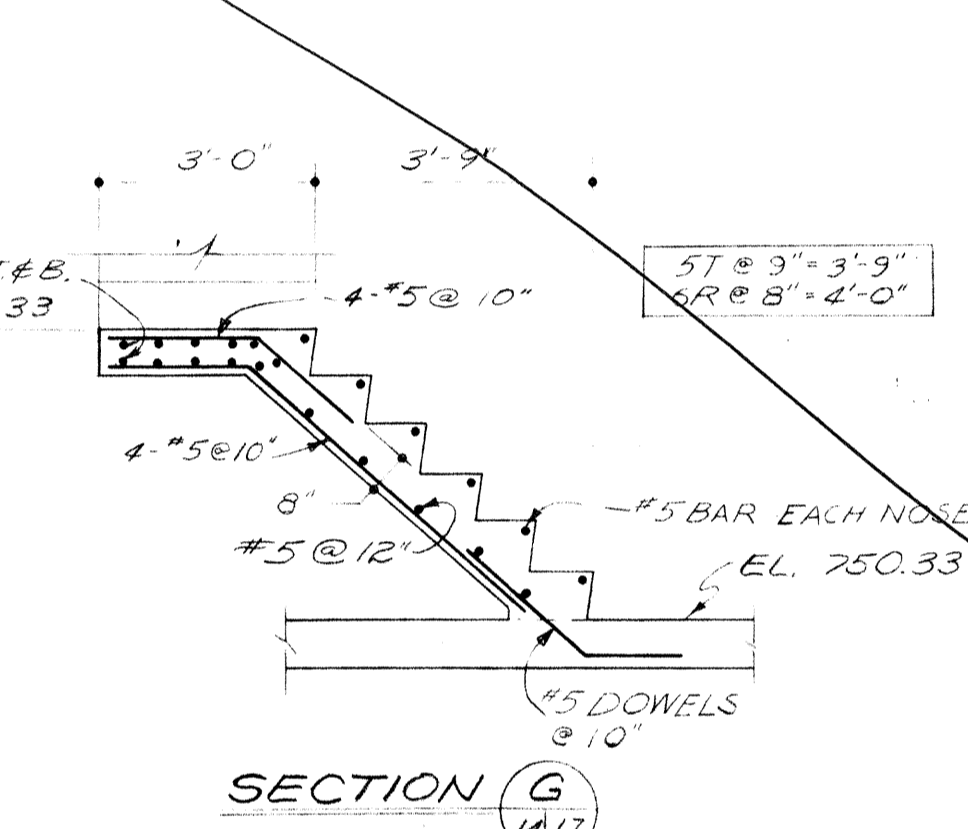
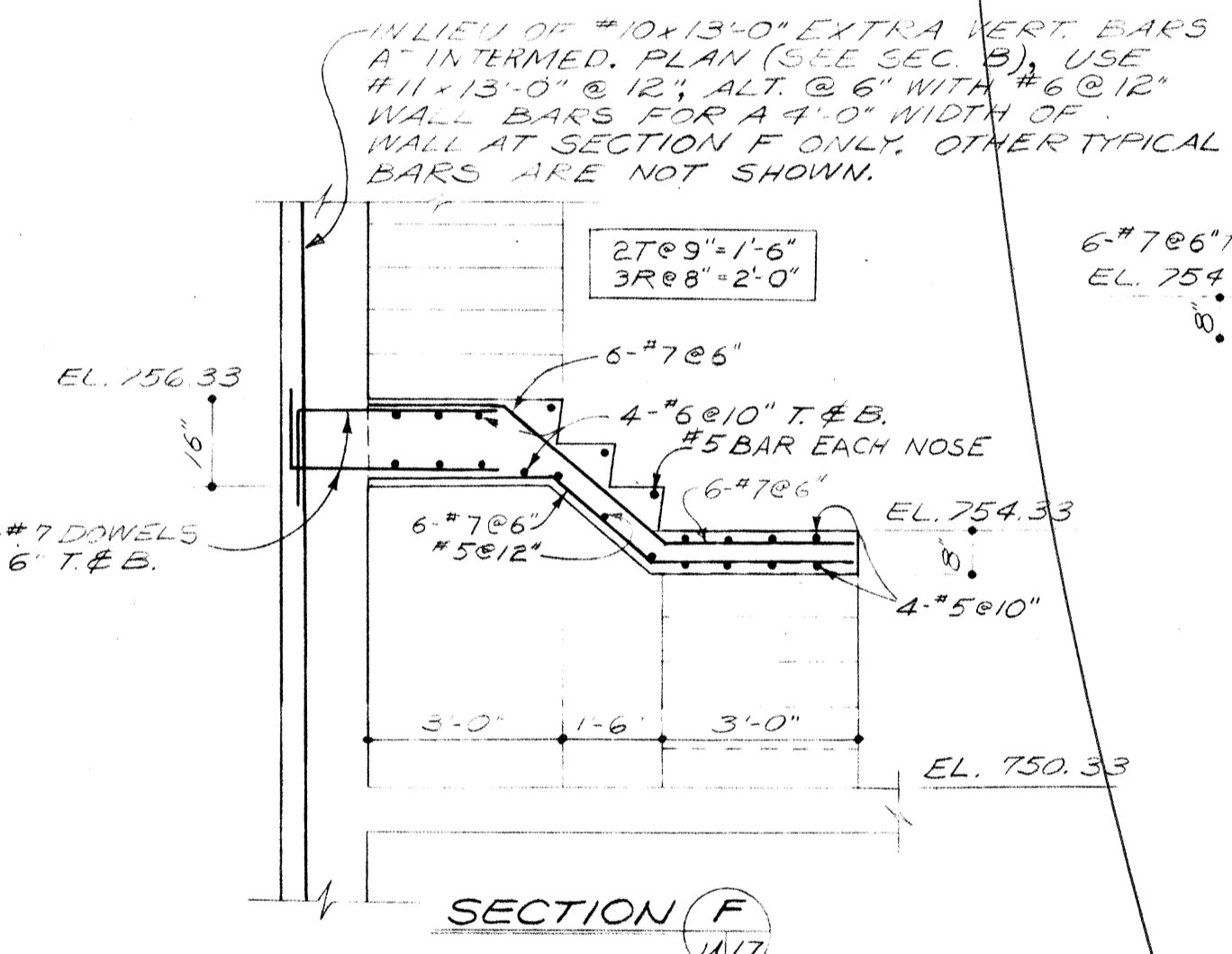
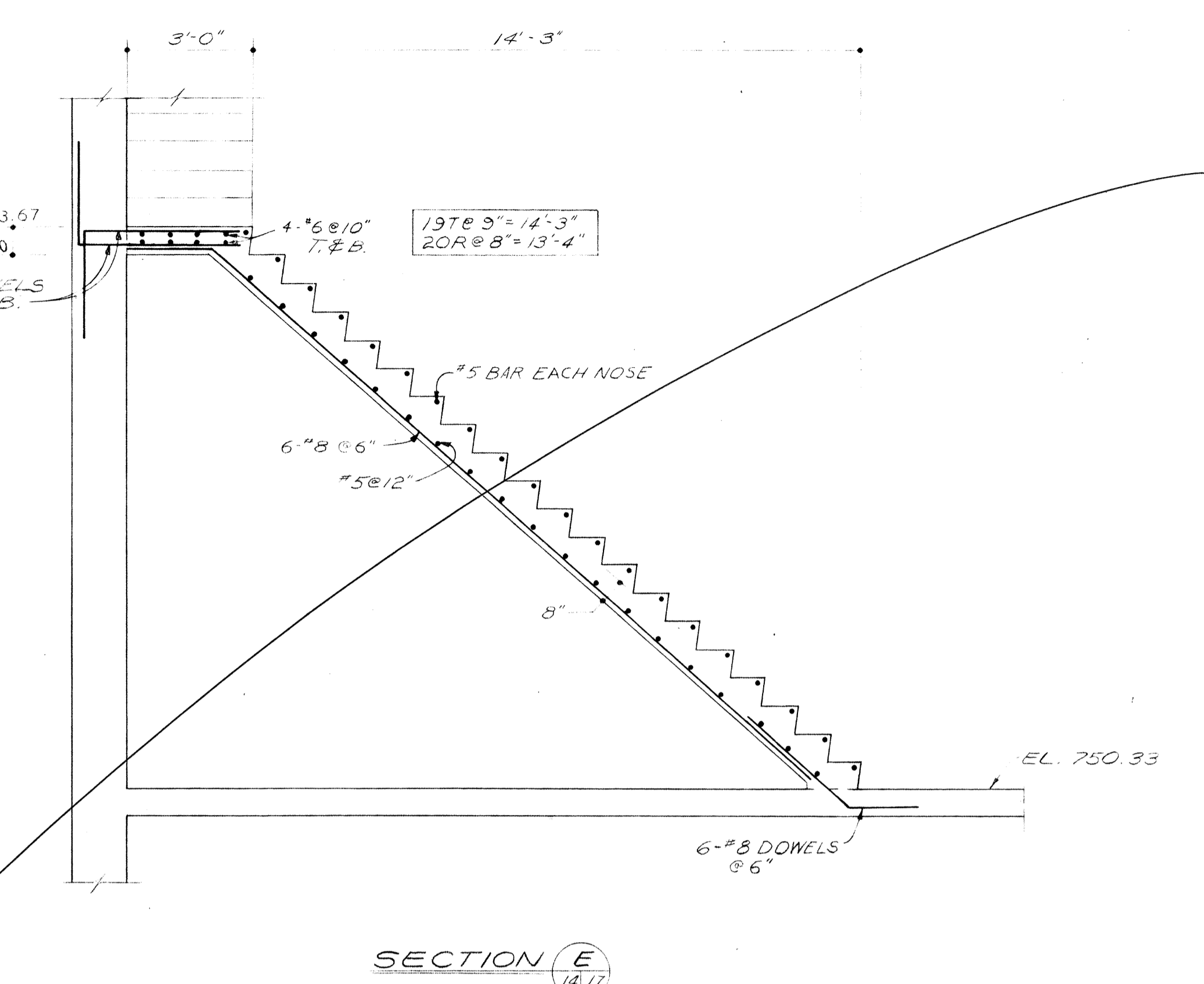
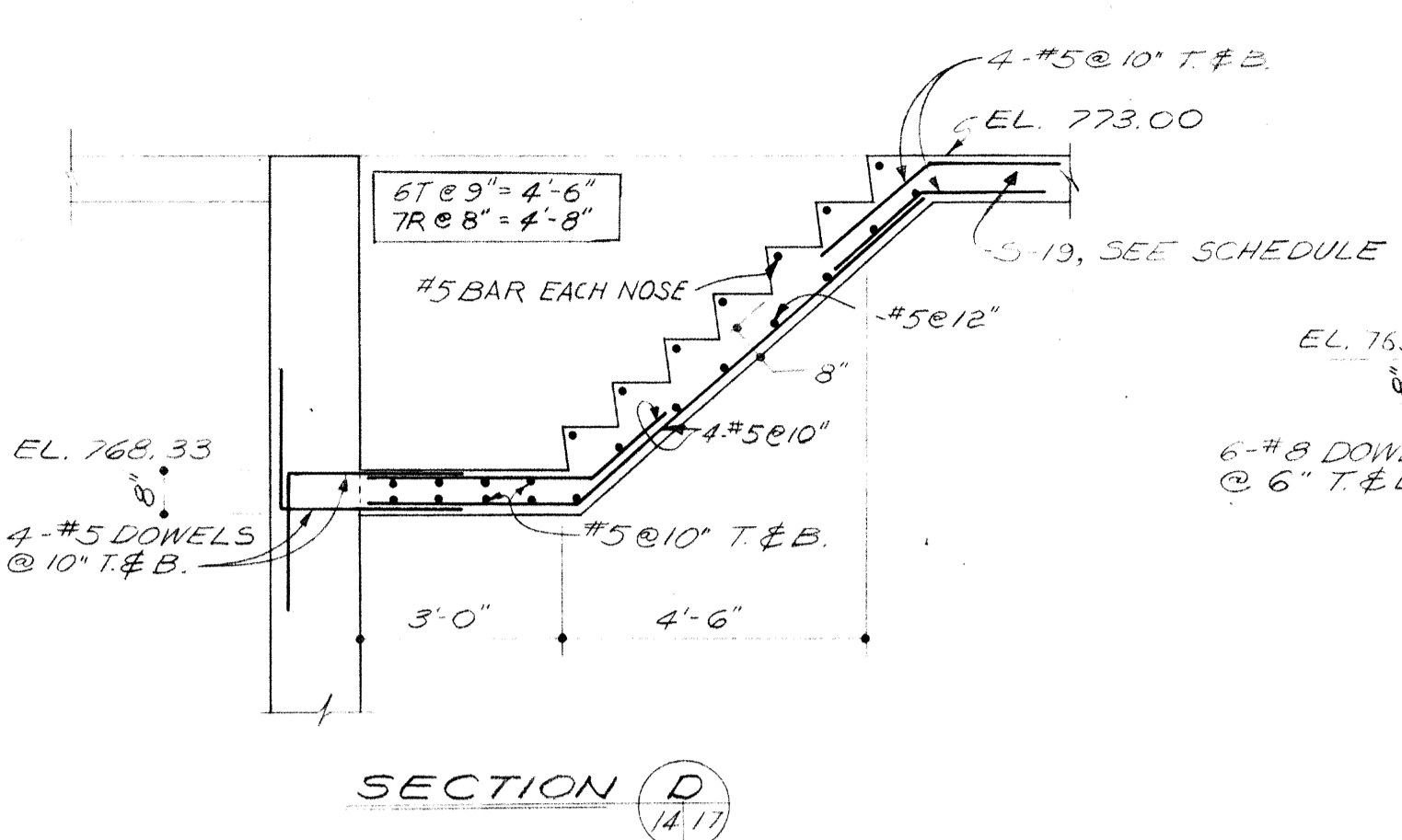
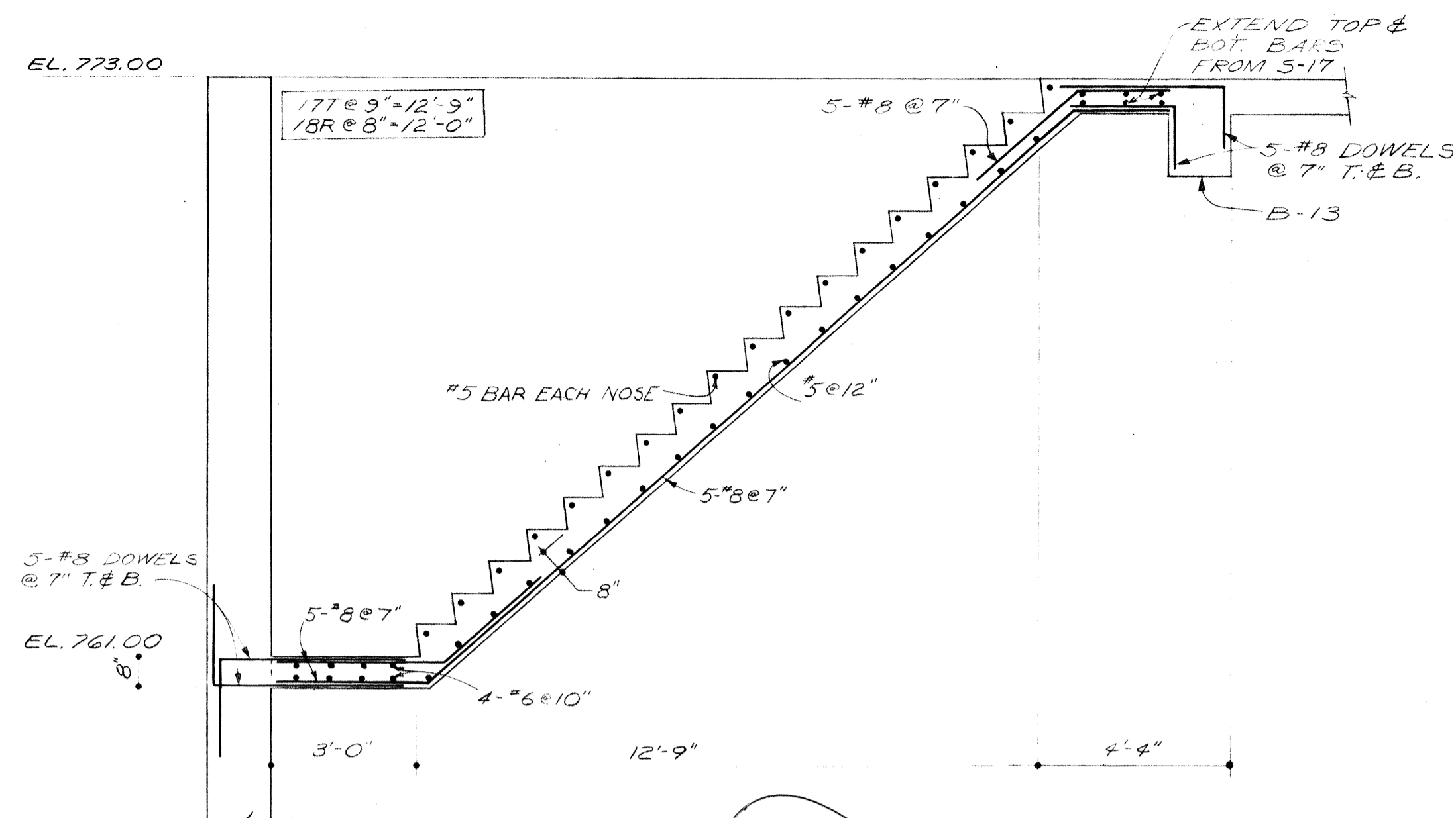


SECTION I-I

BURGESS & NIPLE, LIMITED CONSULTING ENGINEERS
COLUMBUS, OHIO

**DELAWARE COUNTY, OHIO
OLENTANGY ENVIRONMENTAL CONTROL CENTER
CONCRETE & REINFORCING STEEL
CONTROL BUILDING**

REVISIONS APRIL, 1975	DRAWN BY RMW TRACED BY RMW/G.M.D.	CHECKED BY APPROVED BY
JUNE, 1973	SCALE: 3/8" = 1'-0"	SHEET 16 OF 75



MARK	SIZE		REINFORCING		REMARKS	#3 CLOSED STIRRUPS SPACING FROM FACE OF SUPPORTS, EA END.
	B	D	BOTTOM NO.-SIZE	TOP NO.-SIZE		
B-1	12"	12"	2-#8	2-#6	-	2 @ 12"
B-2	16"	24"	4-#10	4-#8	-	5 @ 10", 1 @ 24"
B-3	16"	30"	3-#10	3-#9	-	10 @ 5", 2 @ 12"
B-4	16"	18"	4-#9	4-#7	-	6 @ 7", 1 @ 24"
B-5	16"	24"	3-#9	2-#10	-	4 @ 10", 2 @ 24"
B-6	16"	18"	2-#8	2-#9	-	3 @ 7", 2 @ 24"
B-7	12"	18"	3-#8	2-#7	-	4 @ 7", 1 @ 36"
B-8	12"	30"	2-#9	3-#9	3 BARS IN LOWER LAYER 2 BARS IN UPPER LAYER	1 @ 5", 5 @ 6", 3 @ 12"
B-9	16"	24"	5-#10	2-#9	-	8 @ 6", 2 @ 24"
B-10	18"	27"	6-#9	2-#9	-	4 @ 12", 3 @ 24"
B-11	18"	27"	5-#10	2-#9	-	4 @ 12", 3 @ 24"
B-12	12"	21"	3-#10	2-#7	-	4 @ 10", 2 @ 24"
B-13	16"	24"	4-#10	2-#8	-	12 @ 4", 2 @ 18"
B-14	12"	16"	3-#9	2-#6	-	6 @ 6", 2 @ 12"
B-15	12"	24"	3-#10	2-#7	-	4 @ 12", 1 @ 24"

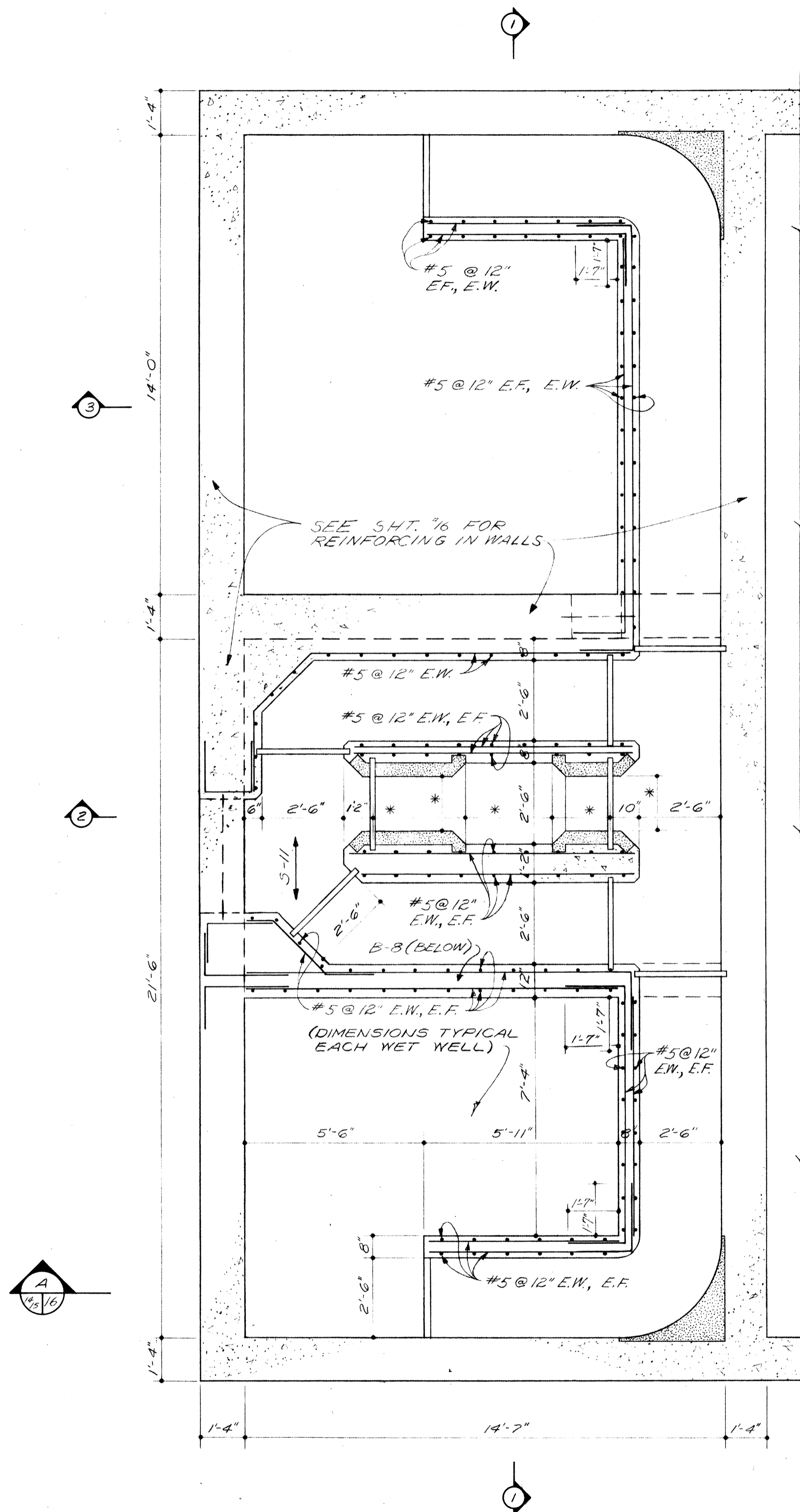
MARK	DEPTH	REINFORCING						REMARKS
		A' BOTTOM	A' TOP	A' EXTRA TOP	B' BOTTOM	B' TOP	B' EXTRA TOP	
S-1	8"	#5 @ 12"	#5 @ 12"	-	#5 @ 12"	#5 @ 12"	-	-
S-2	8"	#5 @ 12"	#5 @ 12"	-	#5 @ 12"	#5 @ 12"	-	-
S-3	8"	#5 @ 12"	#5 @ 12"	-	#5 @ 12"	#5 @ 12"	-	-
S-4	8"	#5 @ 12"	#5 @ 12"	-	#5 @ 12"	#5 @ 12"	-	-
S-5	8"	#5 @ 12"	#5 @ 12"	-	#5 @ 12"	#5 @ 12"	-	-
S-6	8"	#5 @ 12"	#5 @ 12"	-	#5 @ 12"	#5 @ 12"	-	-
S-7	8"	#5 @ 12"	#5 @ 12"	-	#5 @ 12"	#5 @ 12"	-	-
S-8	8"	#5 @ 12"	#5 @ 12"	-	#5 @ 12"	#5 @ 12"	-	-
S-9	8"	#5 @ 12"	#5 @ 12"	-	#5 @ 12"	#5 @ 12"	-	-
S-10	8"	#5 @ 12"	#5 @ 12"	-	#5 @ 12"	#5 @ 12"	-	-
S-11	8"	#5 @ 12"	#5 @ 12"	#5 DOWELS @ 12" 3'-0" OUT FROM FACE OF WALL, ALT. WITH #5 @ 12" CENTERED ON 8'-0" 18'-11"	#5 @ 12"	#5 @ 12"	#5 DOWELS @ 12" 3'-0" OUT FROM FACE OF WALL, ALT. WITH #5 @ 12" CENTERED ON 8'-0" 18'-11"	-
S-12	8"	#5 @ 12"	#5 @ 12"	-	#5 @ 12"	#5 @ 12"	-	-
S-12A	8"	#5 @ 6"	#5 @ 6"	-	#5 @ 12"	#5 @ 12"	-	-
S-13	8"	#5 @ 12"	#5 @ 12"	#4 @ 12" X 7'-0" ALT. WITH #5 @ 12" CENTERED ON 8'-0" 18'-11"	#5 @ 12"	#5 @ 12"	-	-
S-14	8"	#5 @ 12"	#5 @ 12"	-	#5 @ 12"	#5 @ 12"	-	-
S-14A	8"	#5 @ 12"	#5 @ 12"	#5 @ 4" X 7'-0" ALT. WITH 1-#5 @ 12" CENTERED ON B-11 DOWEL @ 12" ALT. WITH 1-#5 @ 12" 3'-0" OUT FROM FACE OF WALL	#5 @ 12"	#5 @ 12"	-	-
S-15	8"	#5 @ 12"	#5 @ 12"	-	#5 @ 12"	#5 @ 12"	-	-
S-16	8"	#5 @ 12"	#5 @ 12"	-	#5 @ 12"	#5 @ 12"	-	-
S-17	8"	#5 @ 12"	#5 @ 12"	-	#5 @ 12"	#5 @ 12"	-	-
S-17A	8"	#5 @ 12"	#5 @ 12"	#5 @ 12" X 6'-0" ALT. WITH #5 @ 12" CENTERED ON B-13 & B-14	#5 @ 12"	#5 @ 12"	-	-
S-18	8"	#5 @ 12"	#5 @ 12"	-	#5 @ 12"	#5 @ 12"	-	-
S-19	8"	#5 @ 12"	#5 @ 12"	#6 @ 12" X 7'-0" ALT. WITH #5 @ 12" EXTEND OVER B-9 TO FACE OF 4" CURB OR OF 6"	#5 @ 12"	#5 @ 12"	-	-

VOID

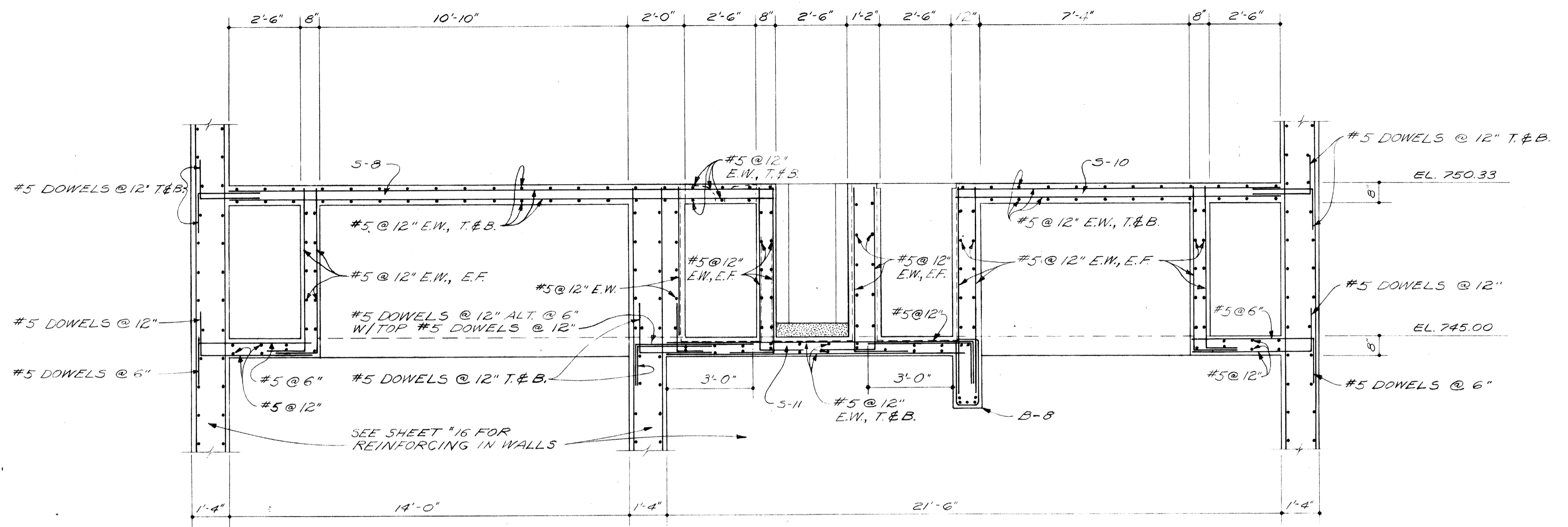
BURGESS & NIPLE, LIMITED CONSULTING ENGINEERS
COLUMBUS, OHIO

DELAWARE COUNTY, OHIO
OLENTANGY ENVIRONMENTAL CONTROL CENTER
CONCRETE & REINFORCING STEEL CONTROL BUILDING

REVISIONS APRIL, 1975	DRAWN BY RMW	CHECKED BY
JUNE, 1973	TRACED BY RMW/HTK	APPROVED BY
SCALE: 3/8"=1'-0"		SHEET 17 OF 75

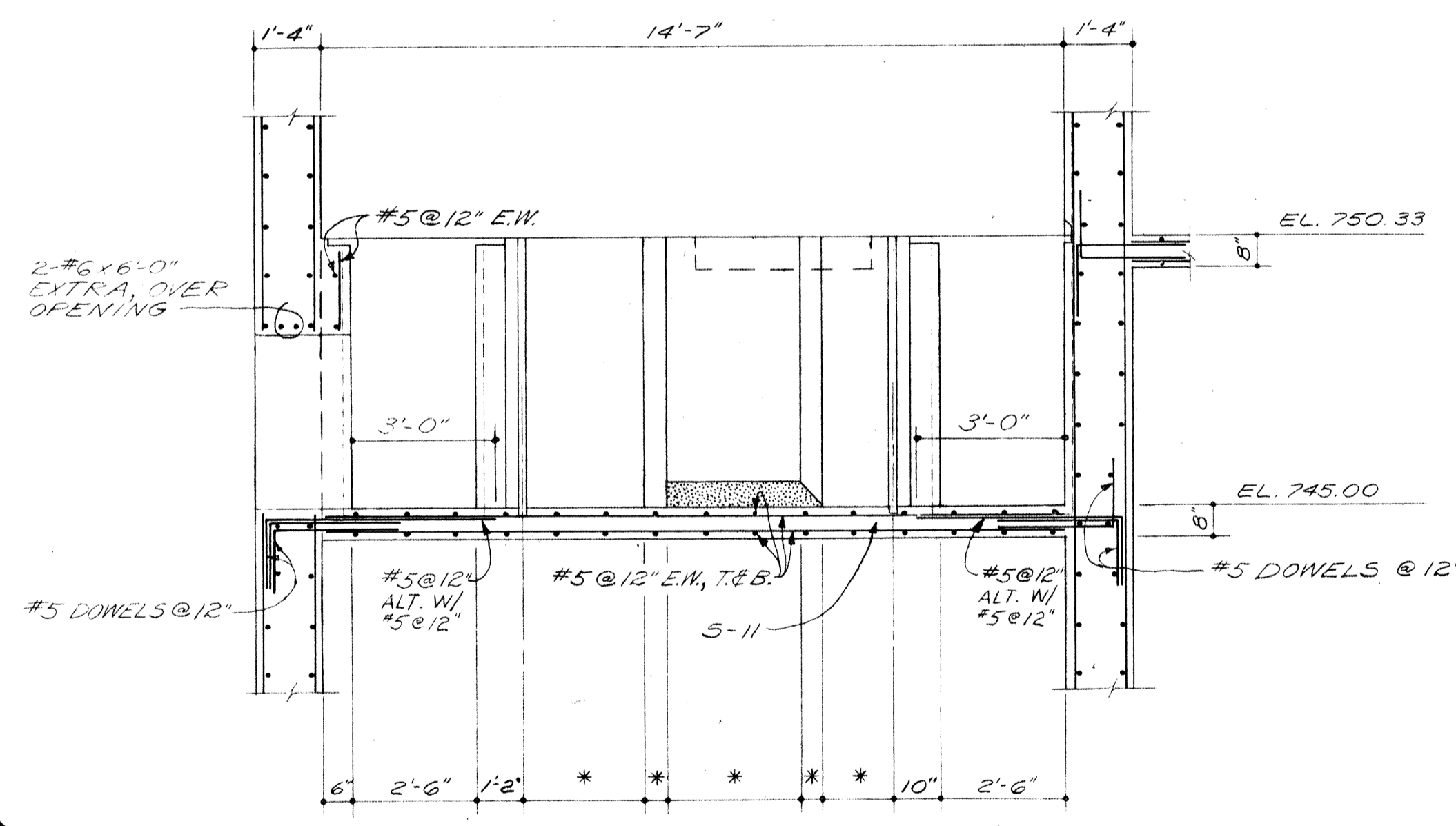


PLAN COMMUNITOR AREA
ELEV. 746.00

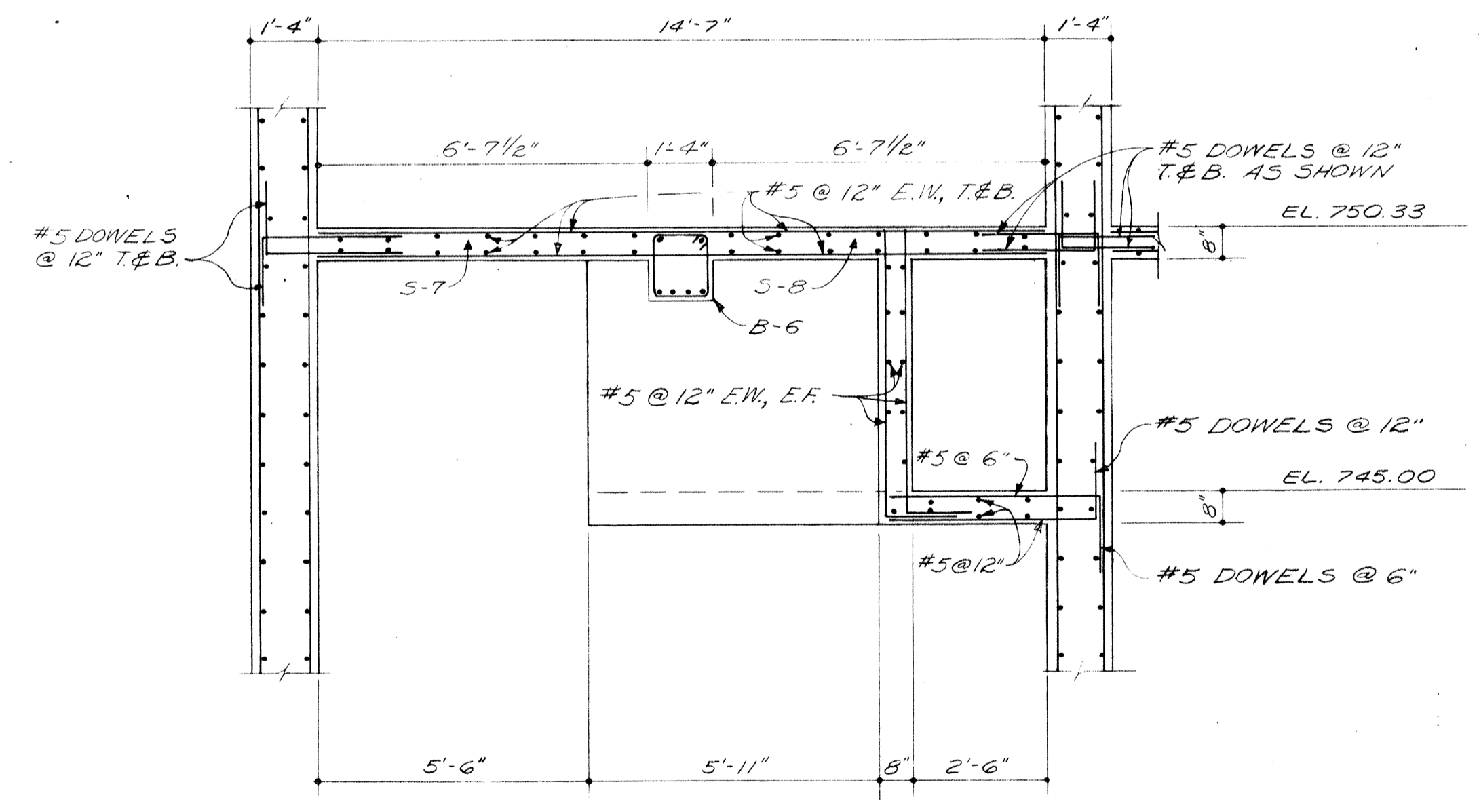


SECTION 1-1

* DIMENSIONS DETERMINED BY
COMMUNITOR EQUIPMENT FURNISHED

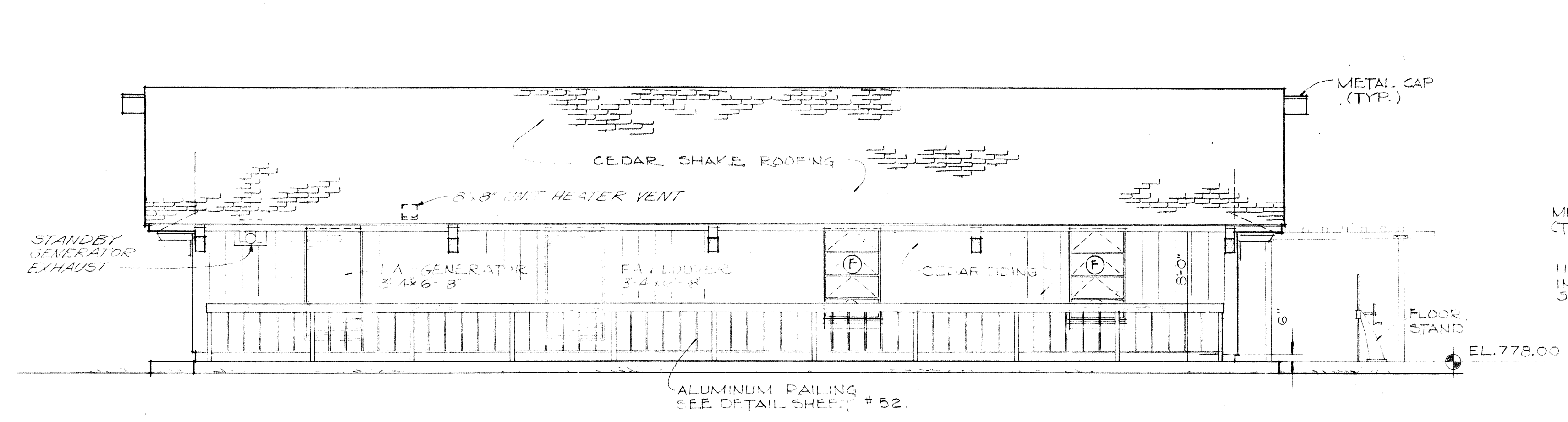


SECTION 2-2

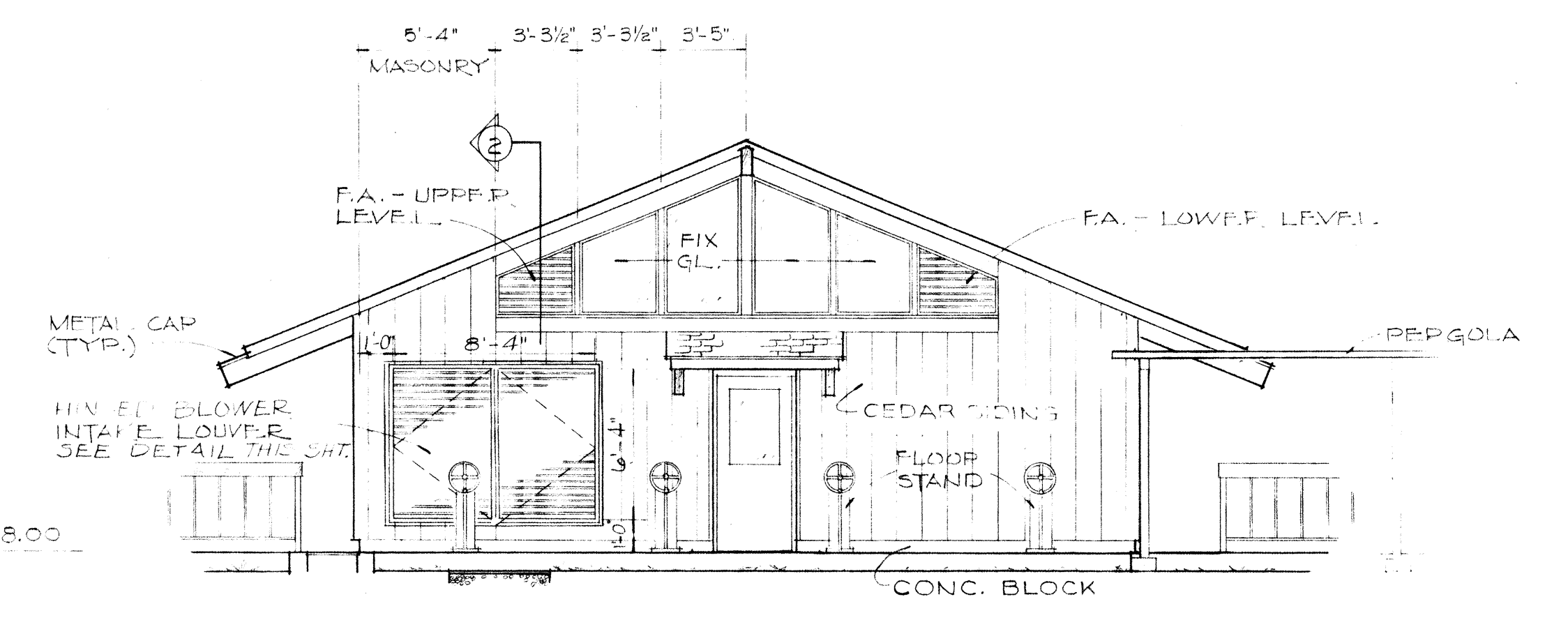


SECTION 3-3

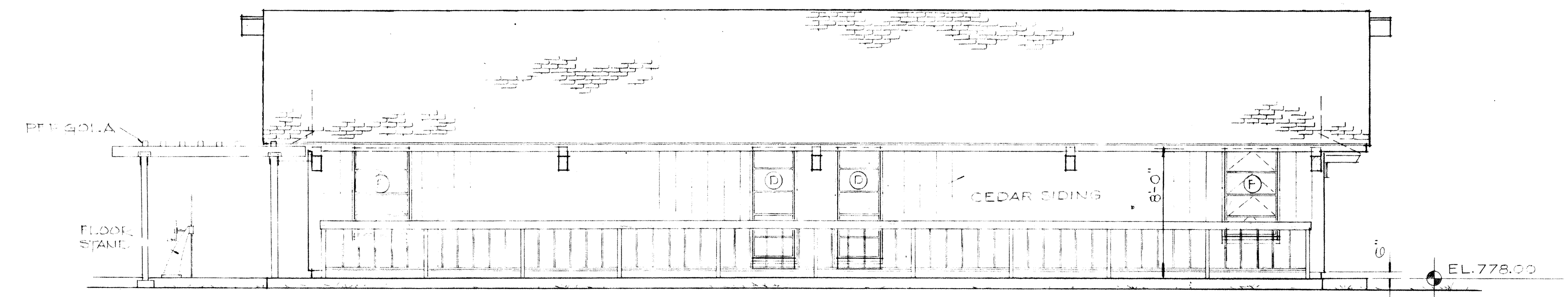
BURGESS & NIPLE, LIMITED		CONSULTING ENGINEERS
		COLUMBUS, OHIO
DELAWARE COUNTY, OHIO		
OLENTANGY ENVIRONMENTAL CONTROL CENTER		
CONCRETE & REINFORCING STEEL		
CONTROL BUILDING		
REVISIONS APRIL, 1975	DRAWN BY <i>RMW</i> TRACED BY <i>RMW/G.M.D.</i>	CHECKED BY APPROVED BY
JUNE, 1973	SCALE: 3/8"=1'-0"	SHEET 18 OF 75



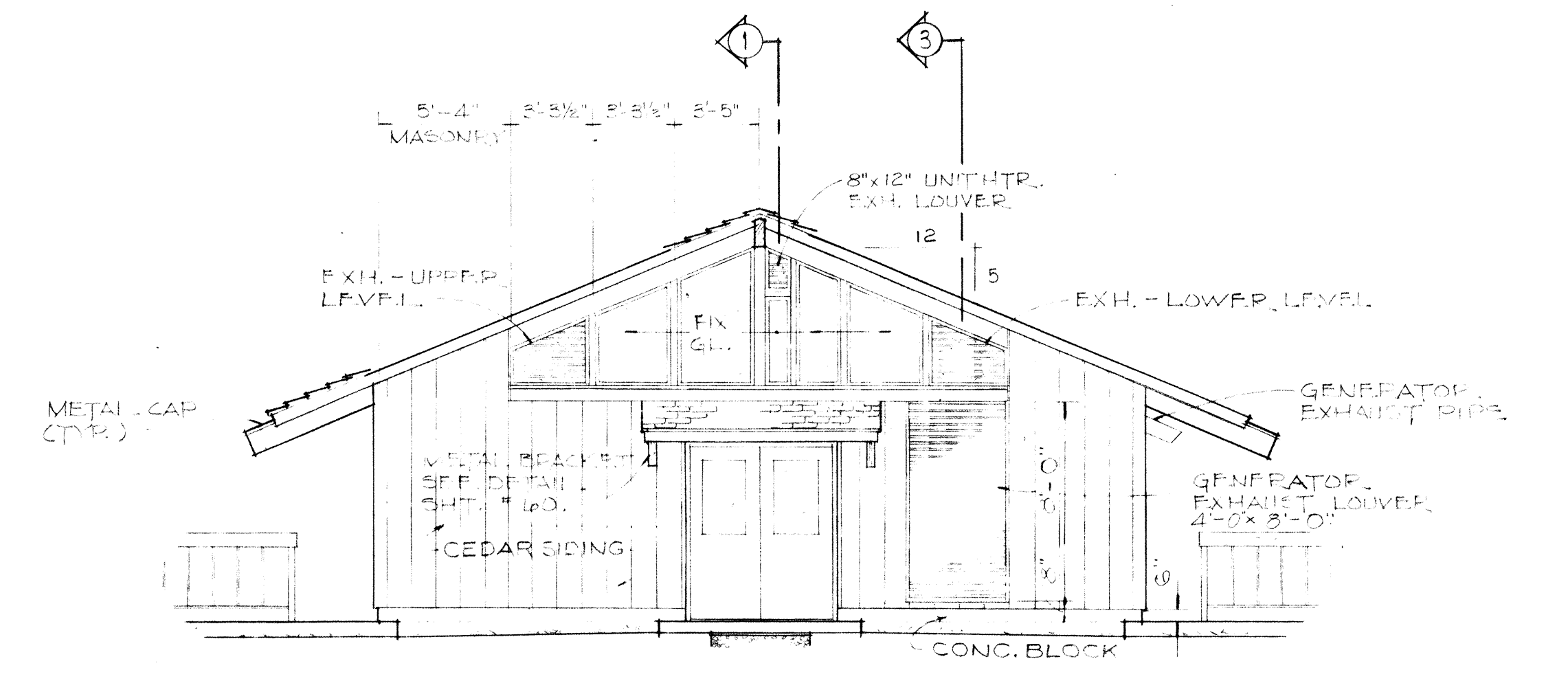
SOUTH



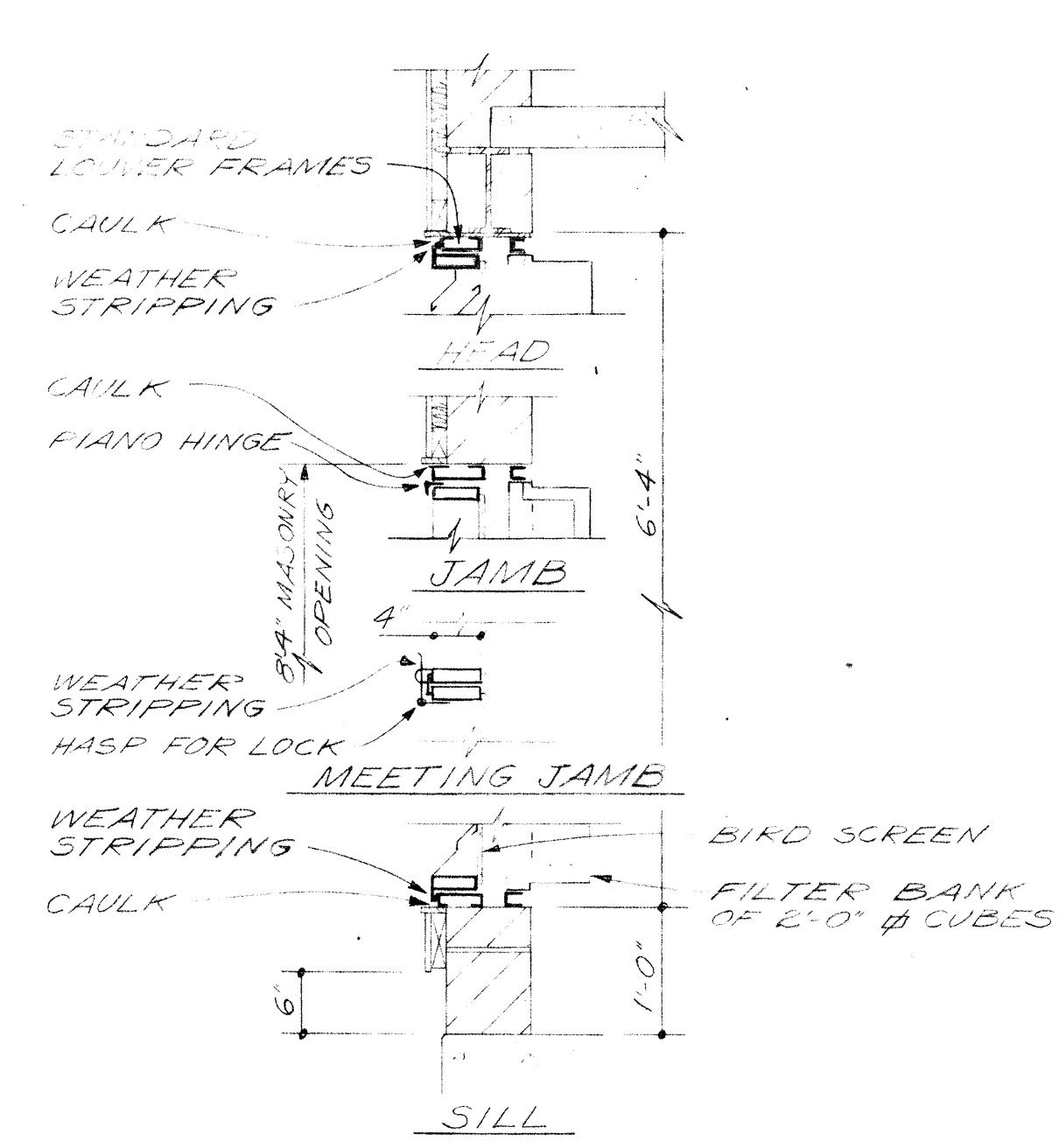
EAST



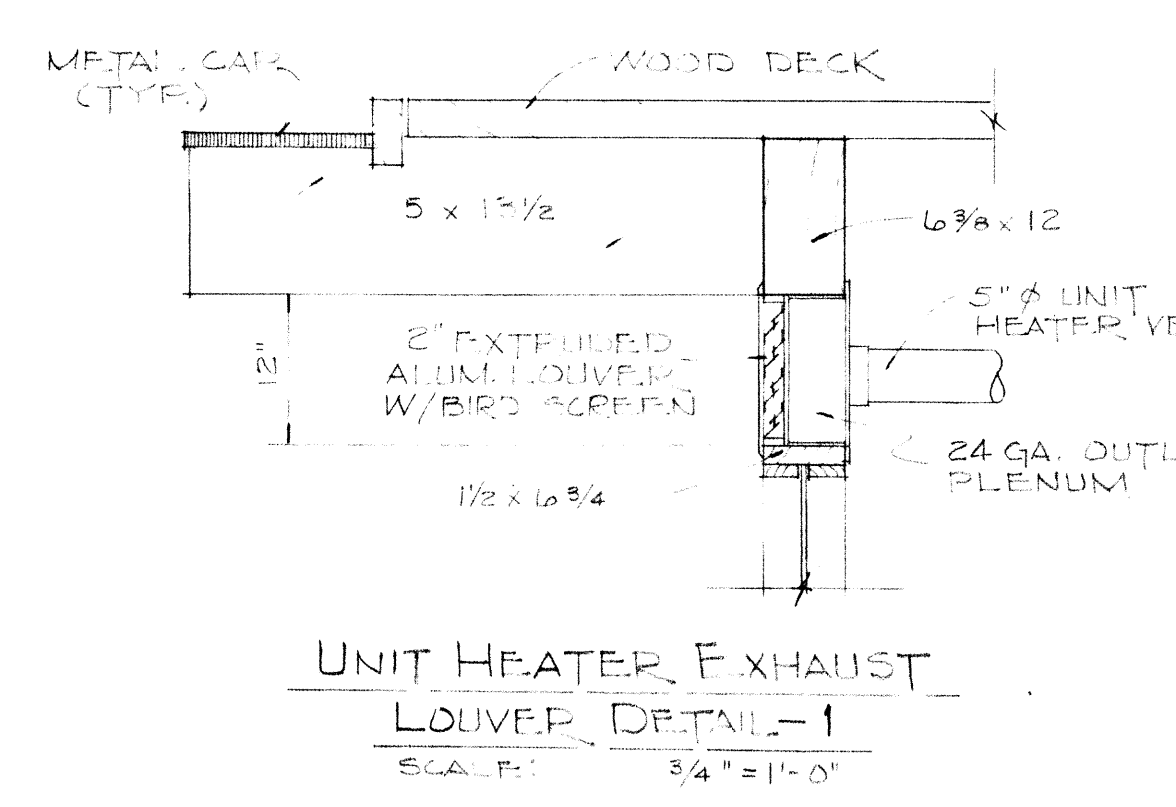
NORTH



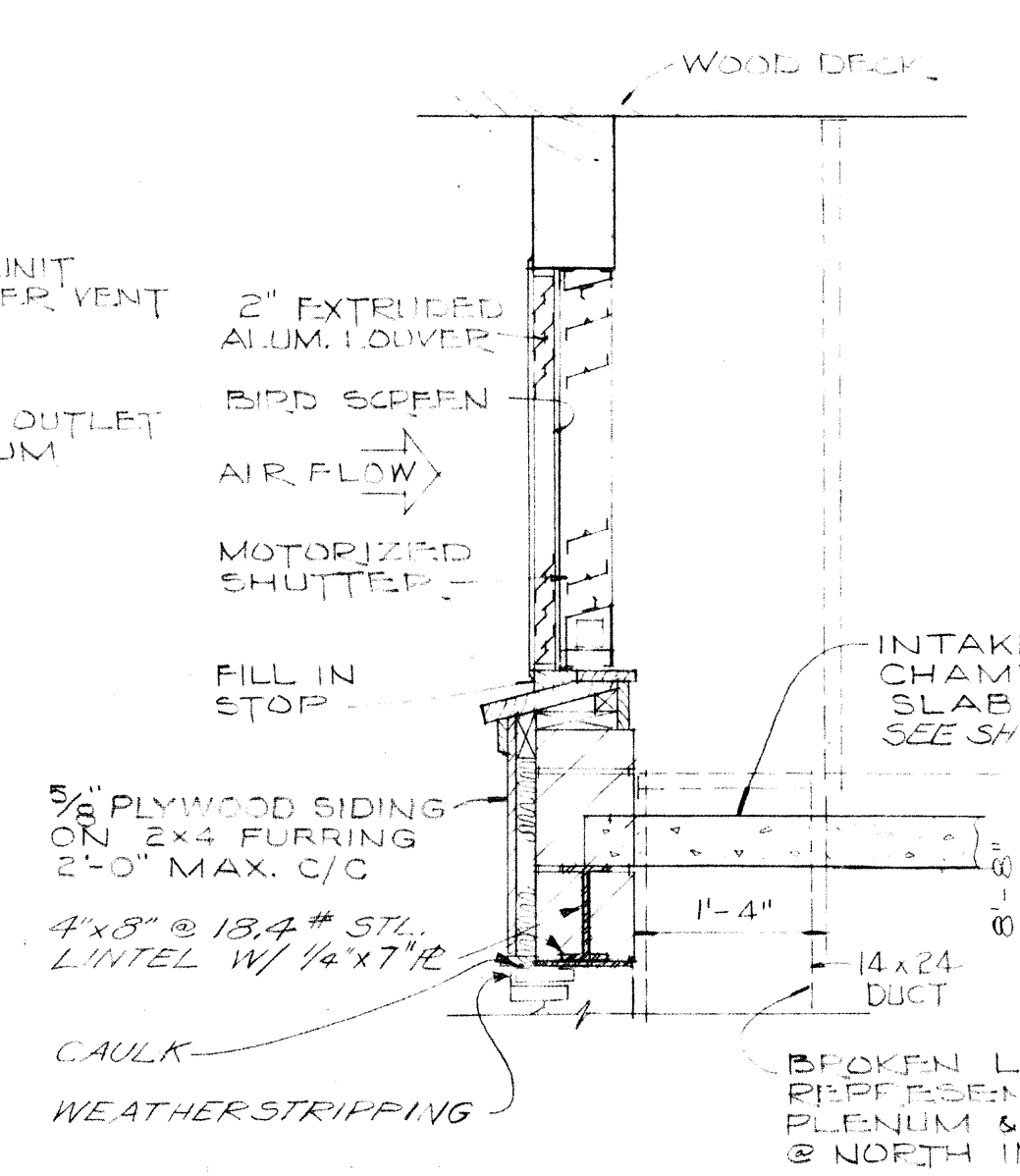
WEST



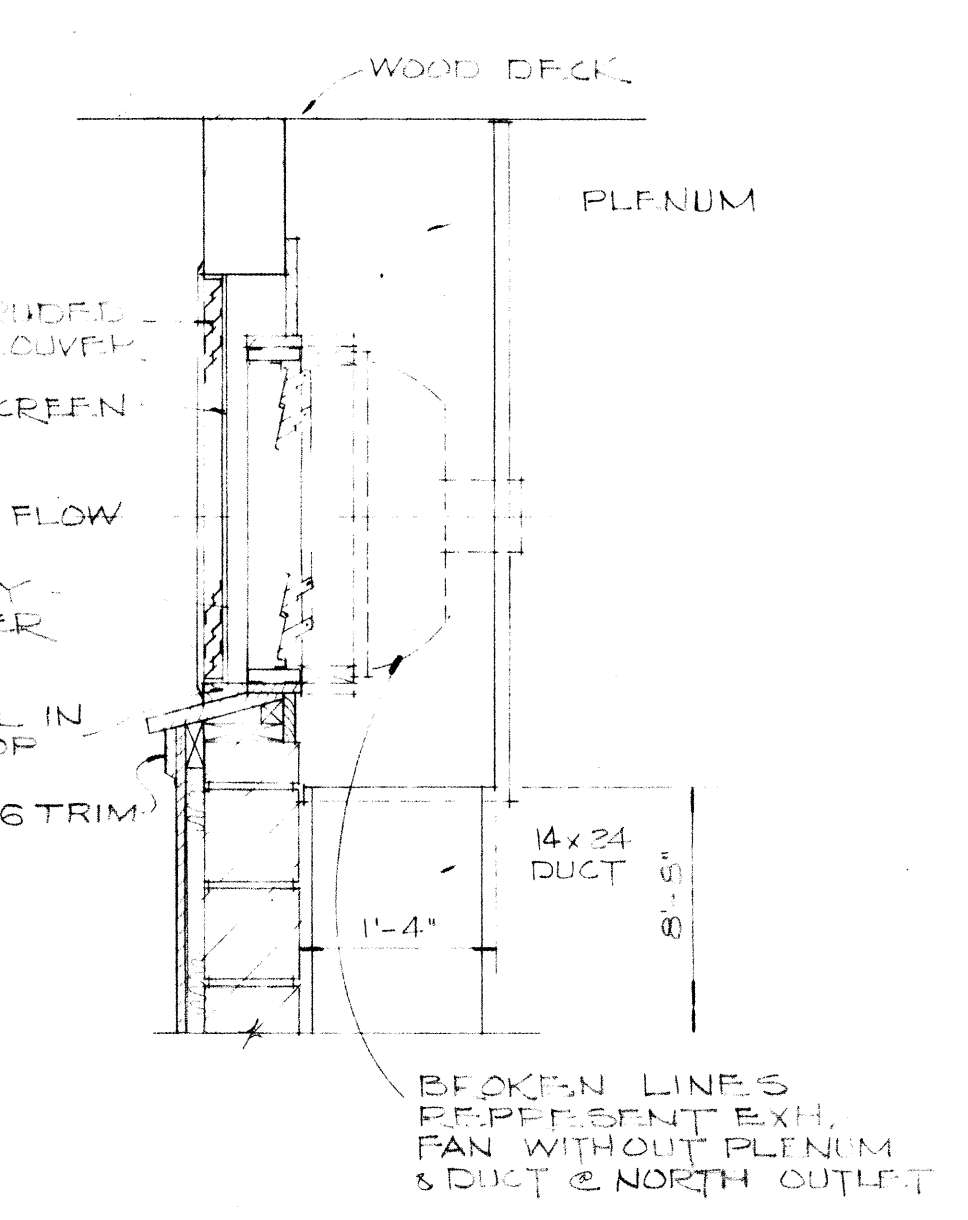
BLOWER INTAKE LOUVER DETAIL SCALE: 3/4" = 1'-0"



UNIT HEATER EXHAUST LOUVER DETAIL - 1 SCALE: 3/4" = 1'-0"

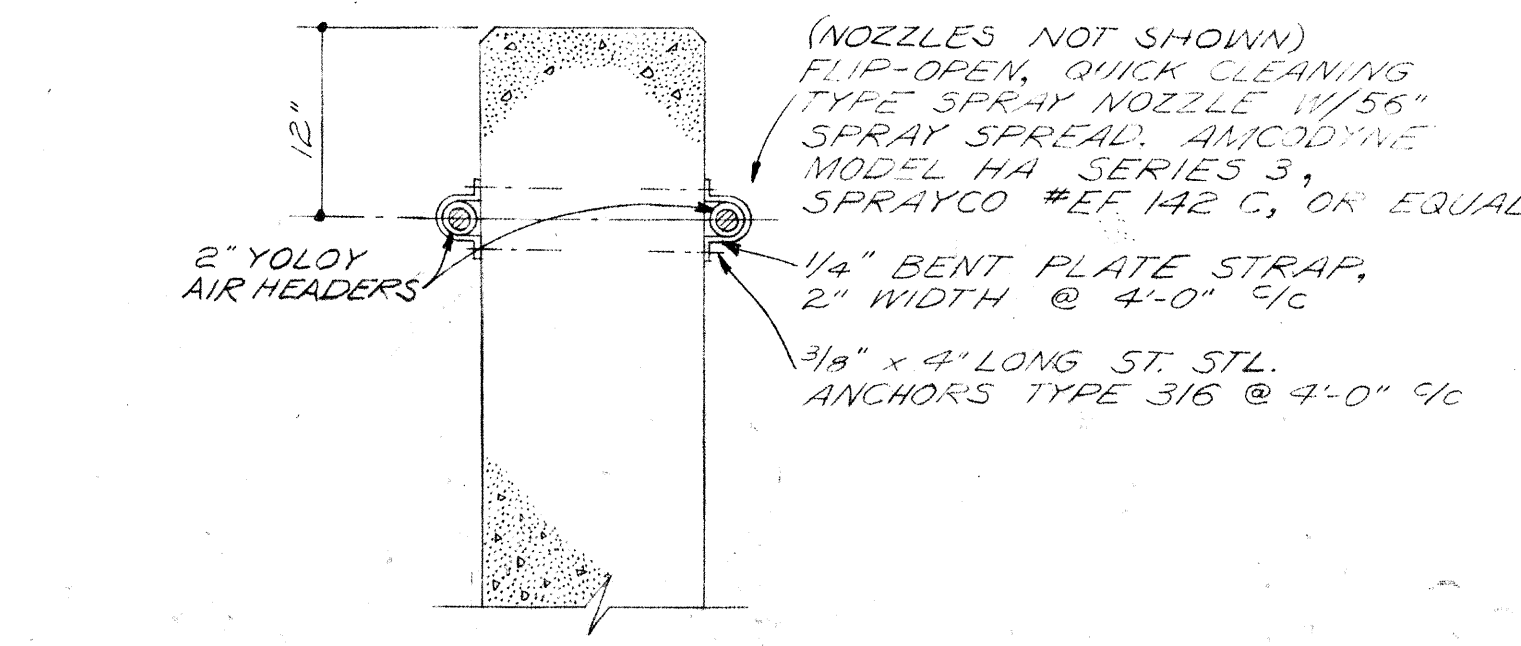
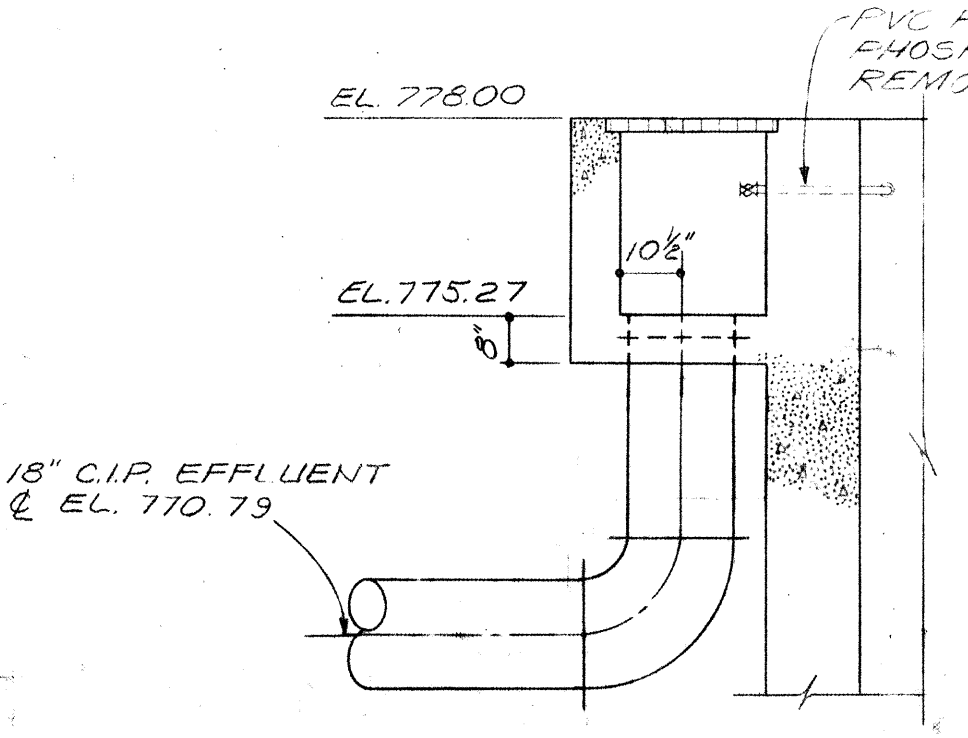
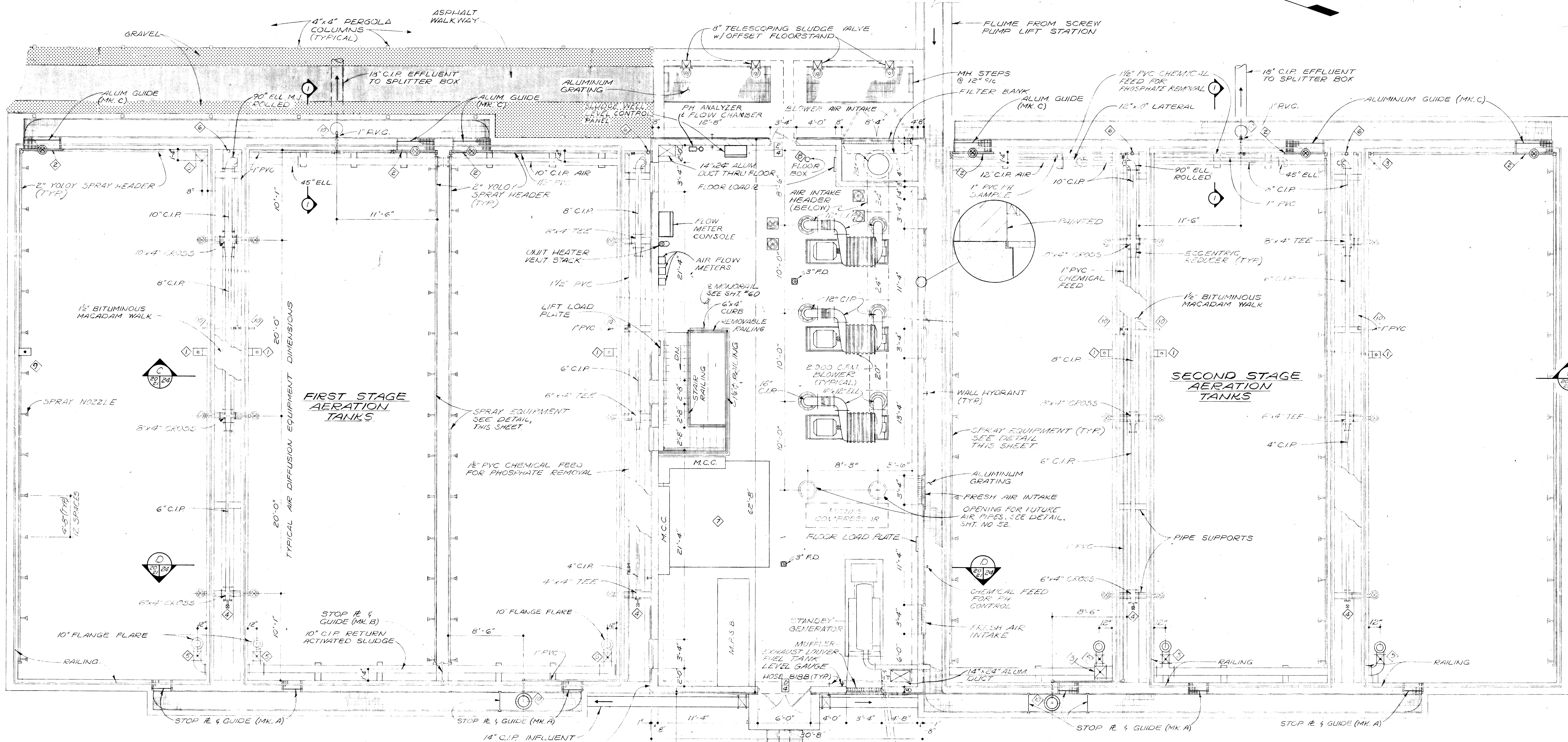
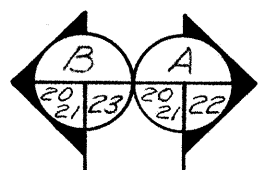


F.A. LOUVER DETAIL - 2 SCALE: 3/4" = 1'-0"



EXHAUST LOUVER DETAIL - 3 SCALE: 3/4" = 1'-0"

BURGESS & NIPLE, LIMITED		CONSULTING ENGINEERS
		COLUMBUS, OHIO
DELAWARE COUNTY, OHIO		
OLENTANGY ENVIRONMENTAL CONTROL CENTER		
BLOWER BUILDING ELEVATIONS		
REVISIONS APRIL, 1975	DRAWN BY WJN TRACED BY DEH	CHECKED BY APPROVED BY
JUNE, 1973	SCALE: 3/16" = 1'-0" UNLESS NOTED	SHEET 19 OF 75



UPPER PLAN

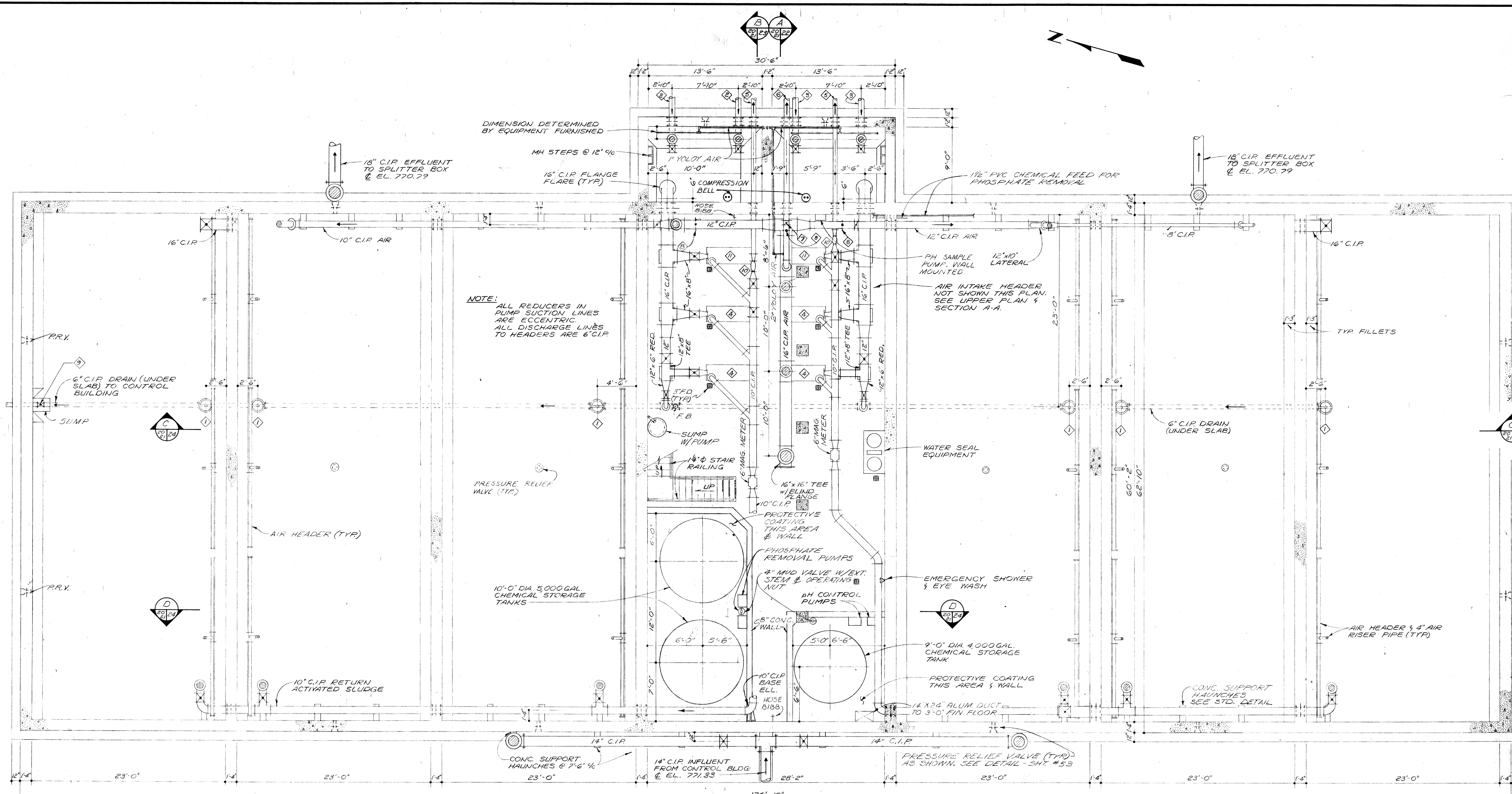
- ① 6" MUD VALVE WITH EXT. STEM, STEM GUIDES AND OPERATING NUT.
- ② SLIDE GATE. SEE DETAIL SHEET #24
- ③ 16" C.I.P., PLUG VALVE W/EXT. STEM, STEM GUIDE AND OPERATING NUT.
- ④ 1" BLOW-OFF VALVE AT BOTTOM WITH VALVE BOX.
- ⑤ 10" C.I.P., PLUG VALVE W/EXT. STEM, STEM GUIDES AND OPERATING NUT.
- ⑥ 2" DRAIN BOTTOM OF "Y" WALL. SEE SECTION E, SHEET #28.
- ⑦ SLAB AREA TO BE BOXED-OUT PENDING CHEMICAL STORAGE TANK DELIVERY.
- ⑧ FLOOR BOX FOR 8" C.I.P. AIR, BUTTERFLY VALVE
- ⑨ 5" C.I.P. PLUG VALVE W/EXT. STEM, STEM GUIDE & OPERATING NUT.
- ⑩ CHEMICAL FEED FOR PHOSPHATE REMOVAL. SLOPE LINES TO DRAIN. ALL VALVES TO BE PVC WITH VALVE BOX & COVER.

NOTE:
PIPE HANGERS ARE NOT SHOWN. HANGERS SHALL BE ADJUSTABLE WROUGHT IRON, CLEVIS TYPE, GRINNEL 260, ROSS WILLOUGHBY 77 OR EQUAL. PROVIDE HANGERS AT ALL FITTINGS AND MAXIMUM OF 8'-0" ON STRAIGHT RUNS.

BURGESS & NIPLE, LIMITED CONSULTING ENGINEERS
COLUMBUS, OHIO

**DELAWARE COUNTY, OHIO
OLENTANGY ENVIRONMENTAL CONTROL CENTER
BLOWER BUILDING &
AERATION TANKS
PLAN**

REVISIONS APRIL, 1975	DRAWN BY R.M.W. TRACED BY G.M.D./R.M.W.	CHECKED BY APPROVED BY
JUNE, 1973	SCALE: 3/16" = 1'-0"	SHEET 20 OF 75

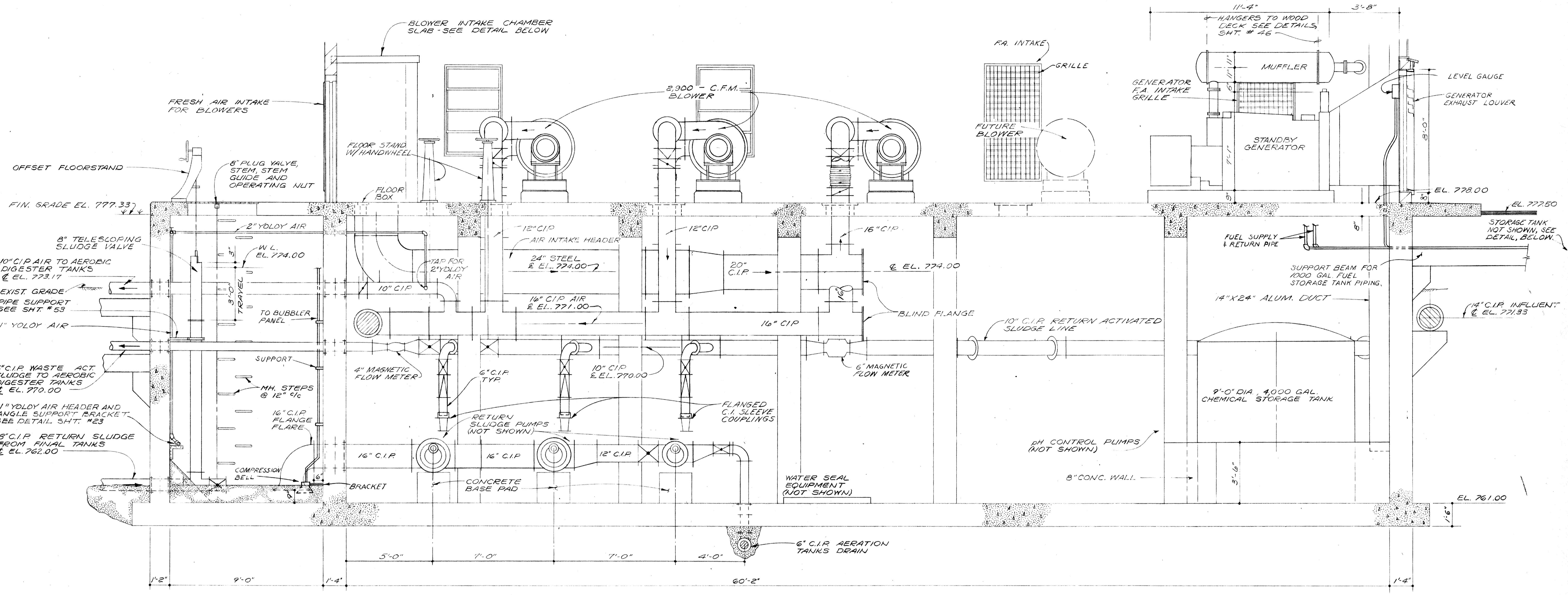


NOTE:
ALL REDUCERS IN
PUMP SUCTION LINES
ARE ECCENTRIC.
ALL DISCHARGE LINES
TO HEADERS ARE 6\"/>

LOWER PLAN

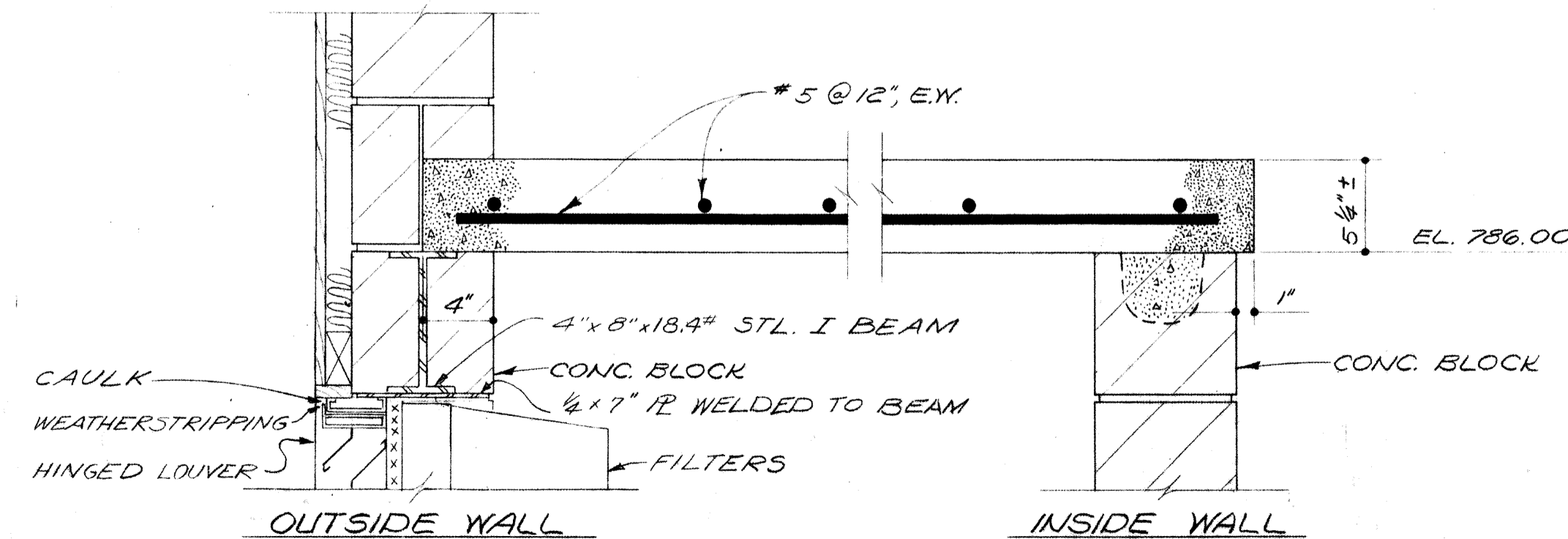
- ① 6" MUD VALVE WITH EXT. STEM, STEM GUIDES AND OPERATING NUT.
- ② 8" C.I.P. RETURN SLUDGE FROM INTERMEDIATE CLARIFIERS.
- ③ 8" C.I.P. RETURN SLUDGE FROM FINAL CLARIFIERS.
- ④ 525 GPM RETURN ACTIVATED SLUDGE PUMPS.
- ⑤ 6" C.I.P. WASTE ACTIVATED SLUDGE TO AEROBIC DIGESTER TANKS.
- ⑥ 10" C.I.P. AIR TO AEROBIC DIGESTER TANKS.
- ⑦ 10" C.I.P. AIR, BUTTERFLY VALVE, EXT. STEM & FLOOR BOX.
- ⑧ TAP PIPE FOR AIR FLOW SENSOR.
- ⑨ 6" C.I.P. PLUG VALVE W/EXT. STEM, STEM GUIDE & OPERATING NUT.
- ⑩ 4" MAGNETIC SLUDGE METER.
- ⑪ 525 GPM. VARIABLE SPEED RETURN ACTIVATED SLUDGE PUMP.

BURGESS & NIPLÉ, LIMITED		CONSULTING ENGINEERS
		COLUMBUS, OHIO
DELAWARE COUNTY, OHIO		
OLENTANGY ENVIRONMENTAL CONTROL CENTER		
BLOWER BUILDING & AERATION TANKS PLAN		
REVISIONS - APRIL, 1975	DRAWN BY RMW TRACED BY GMC/RMW	CHECKED BY APPROVED BY
JUNE, 1973	SCALE: 3/16"=1'-0"	SHEET 21 OF 75

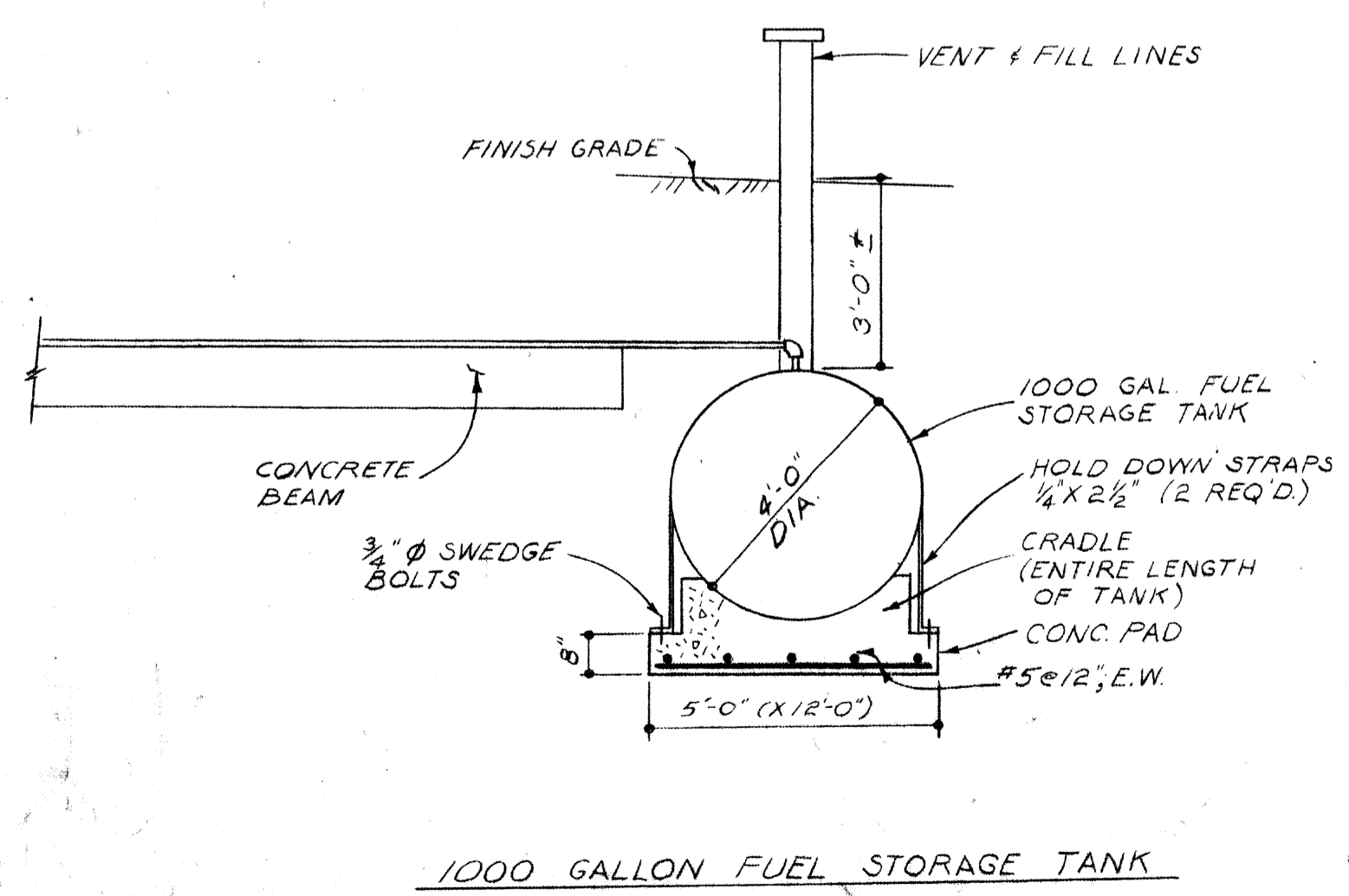


NOTE: ELECTRICAL CONDUIT ENCLOSURE THRU SLUDGE WELL NOT SHOWN THIS SECTION, SEE SHT. # 25 & 26

SECTION A



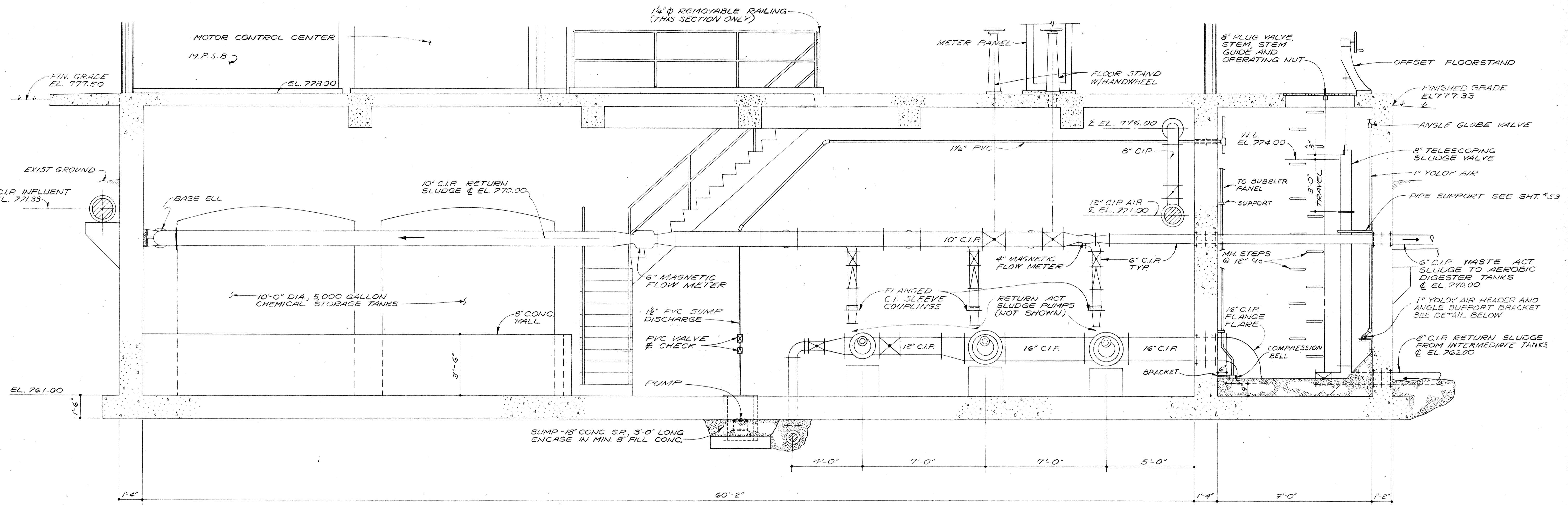
INTAKE CHAMBER SLAB
SCALE: 1/2" = 1'-0"



BURGESS & NIPLE, LIMITED CONSULTING ENGINEERS
COLUMBUS, OHIO

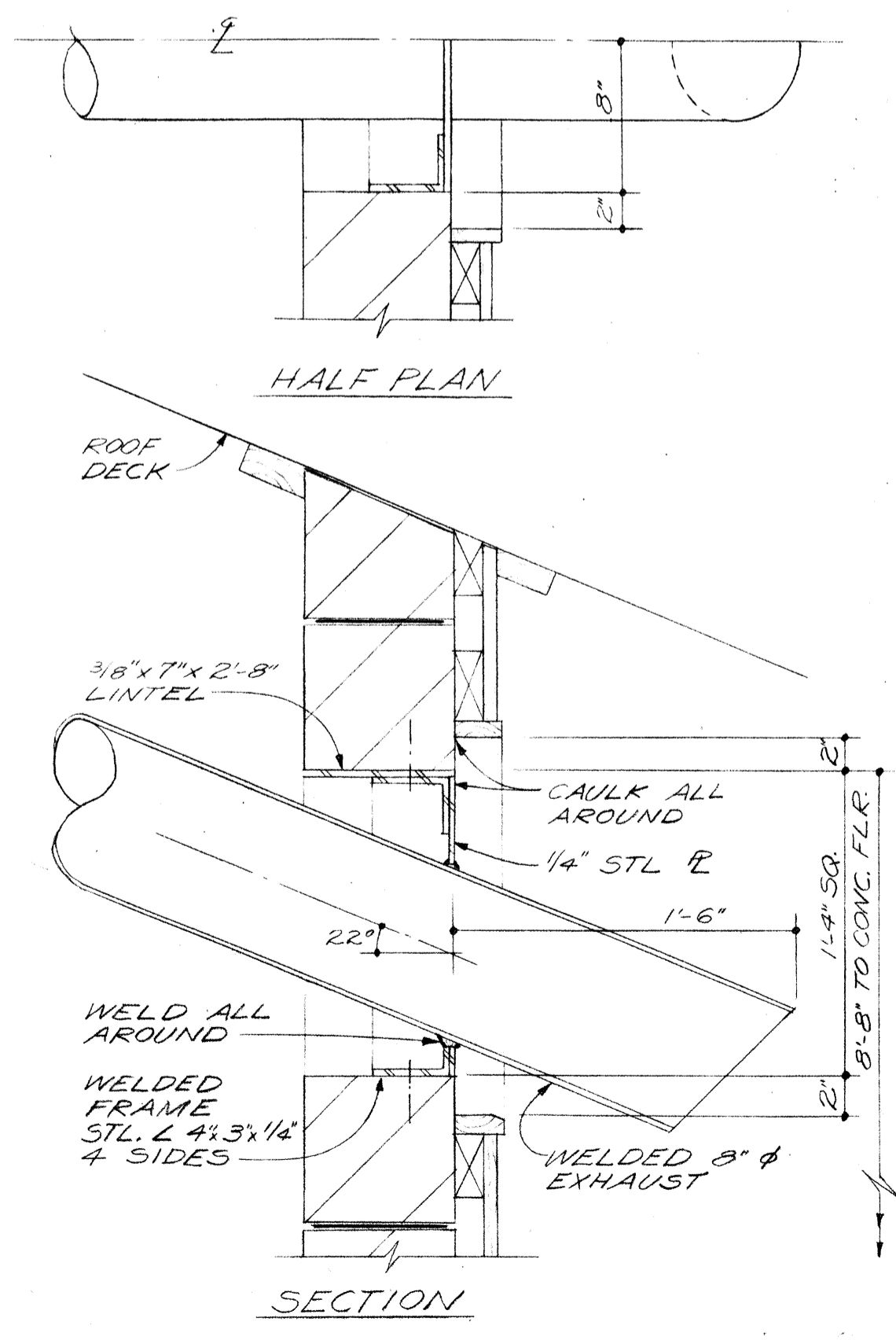
DELAWARE COUNTY, OHIO
OLENTANGY ENVIRONMENTAL CONTROL CENTER
BLOWER BUILDING
SECTION

REVISIONS APRIL, 1975	DRAWN BY RMW TRACED BY GMD/RMW	CHECKED BY APPROVED BY
JUNE, 1973	SCALE: 3/8" = 1'-0"	SHEET 22 OF 75

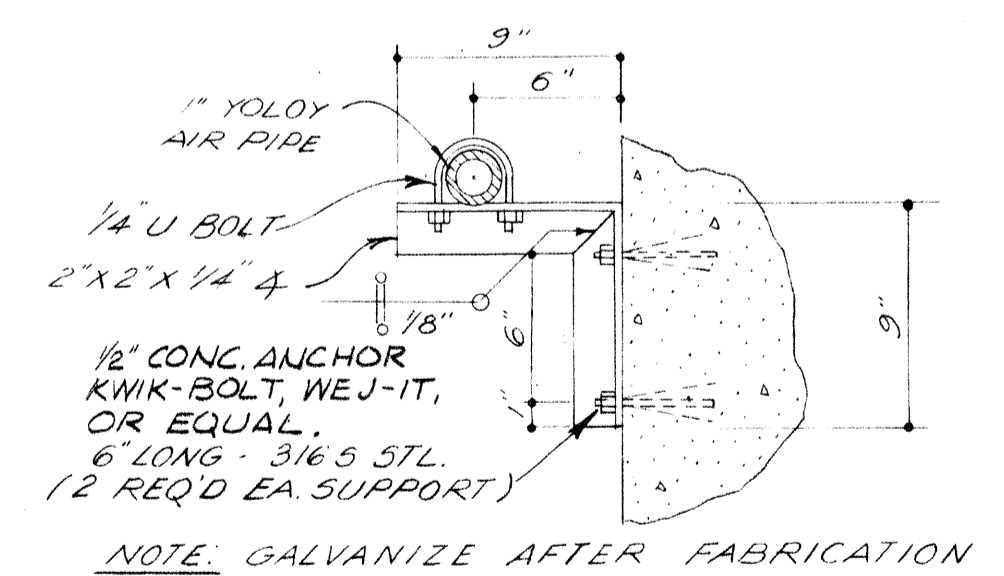


SECTION B

NOTE: ELECTRICAL CONDUIT ENCLOSURE THRU SLUDGE WELL NOT SHOWN THIS SECTION, SEE SHT. #25 & 26

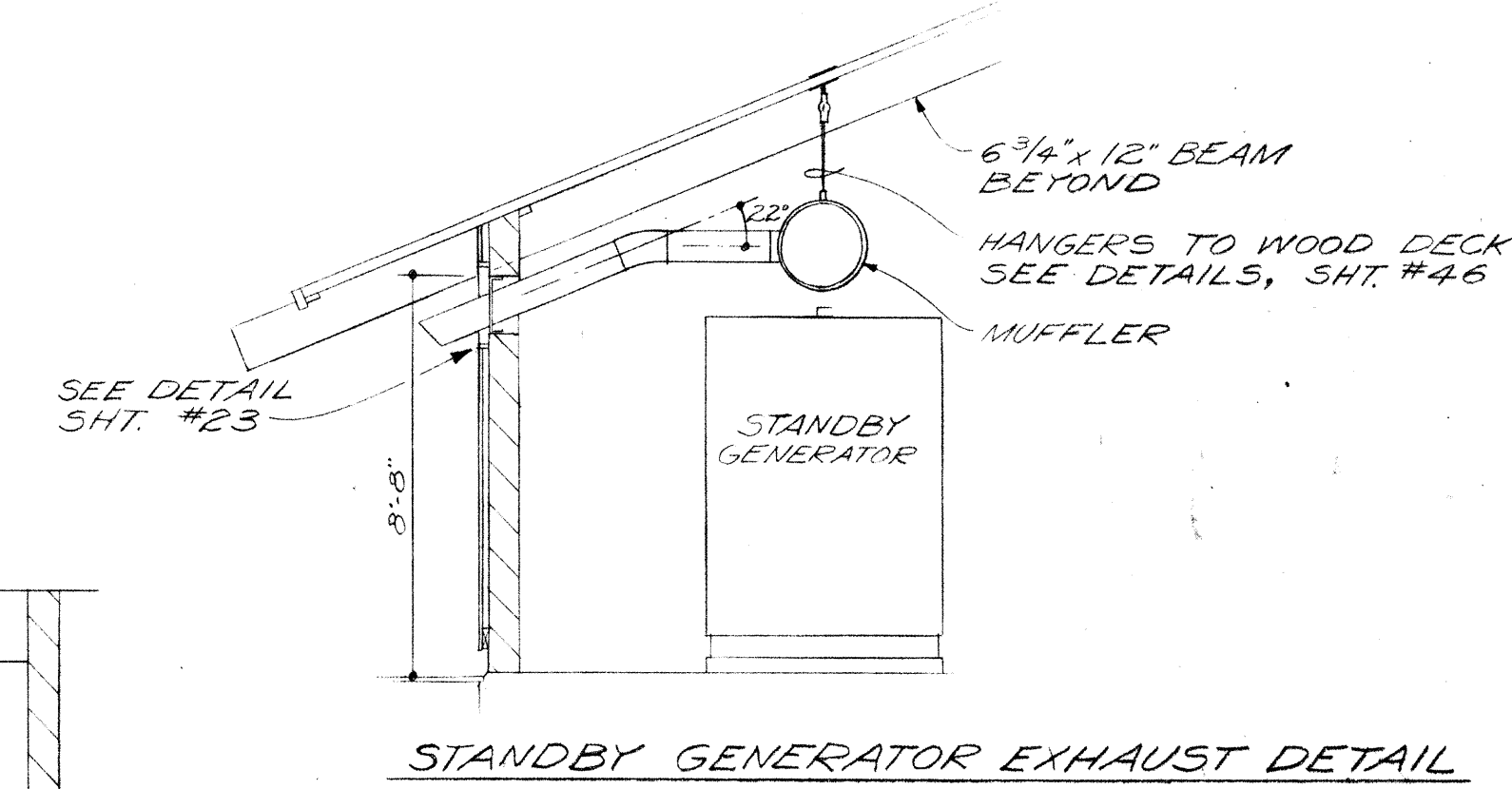
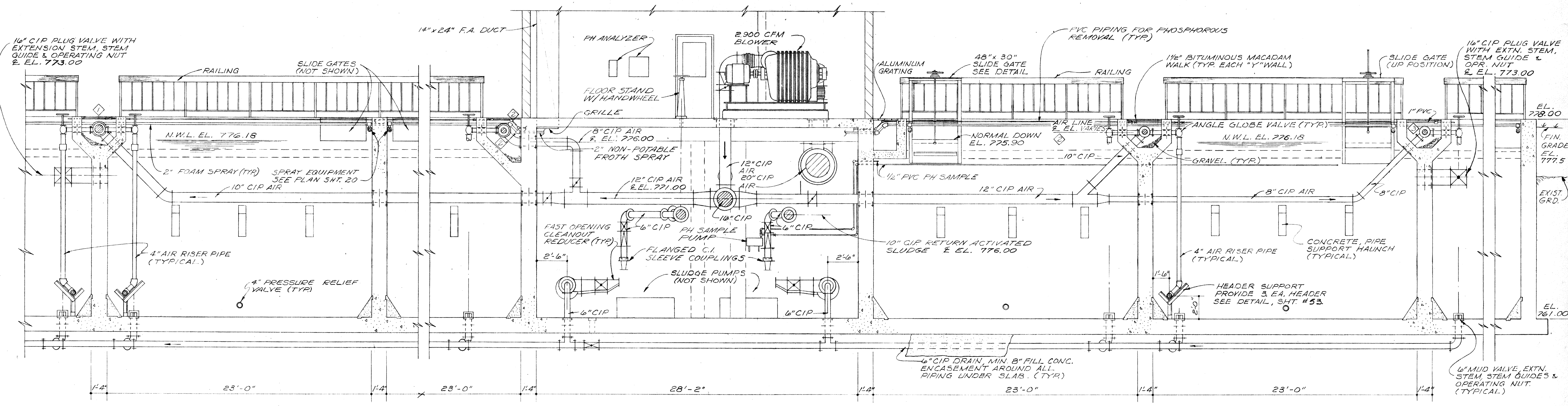


STANDBY GENERATOR EXHAUST THRU WALL
SCALE: 1/2" = 1'-0"



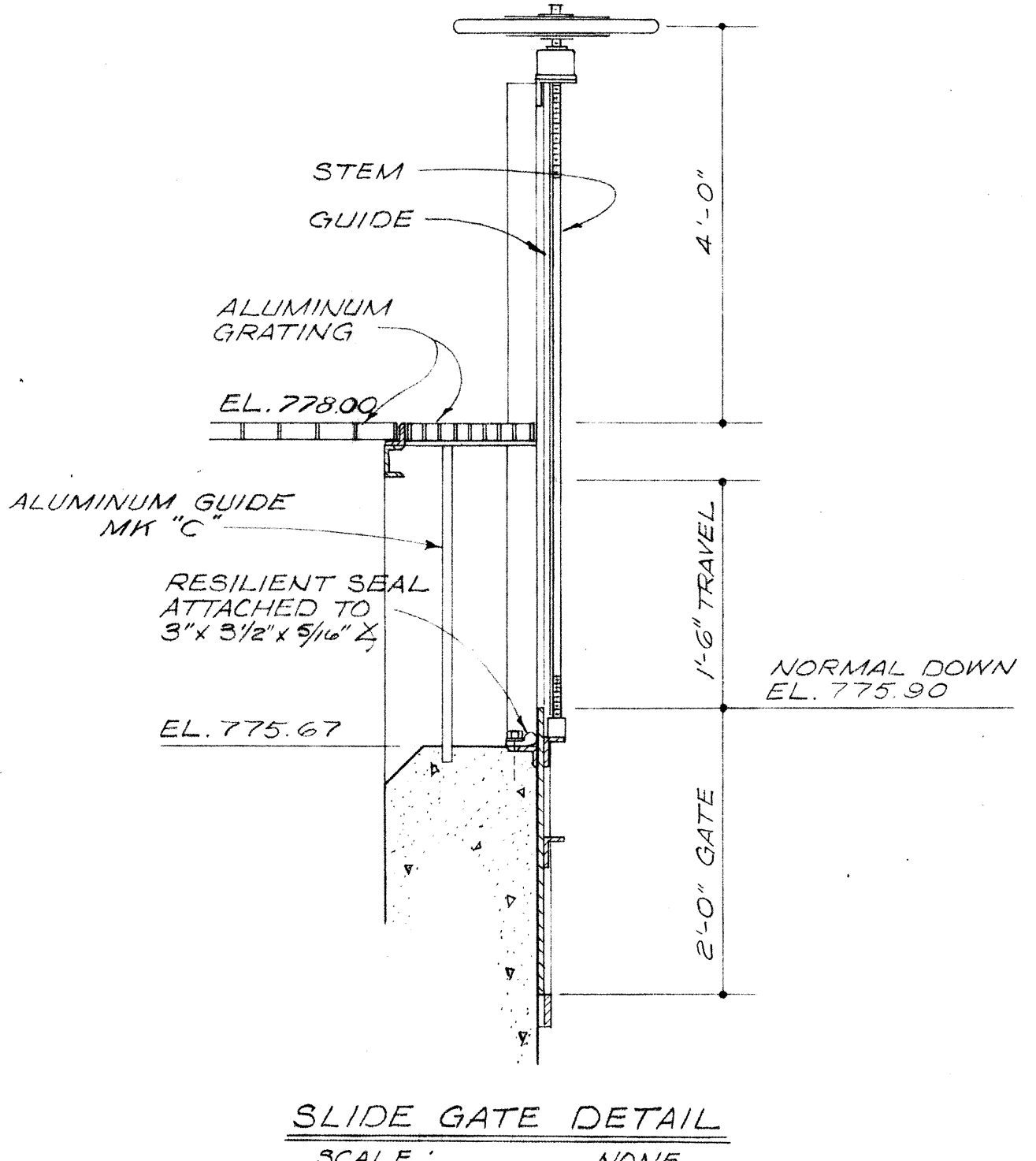
PIPE SUPPORT DETAIL
SCALE: 1/2" = 1'-0"
(6 REQ'D.)

BURGESS & NIPLE, LIMITED		CONSULTING ENGINEERS
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DELAWARE COUNTY, OHIO		
OLENTANGY ENVIRONMENTAL CONTROL CENTER		
BLOWER BUILDING SECTIONS		
REVISIONS	DRAWN BY RMW	CHECKED BY
APRIL, 1975	TRACED BY G.M.D.	APPROVED BY
JUNE, 1973	SCALE: 3/8" = 1'-0" UNLESS NOTED	SHEET 23 OF 75

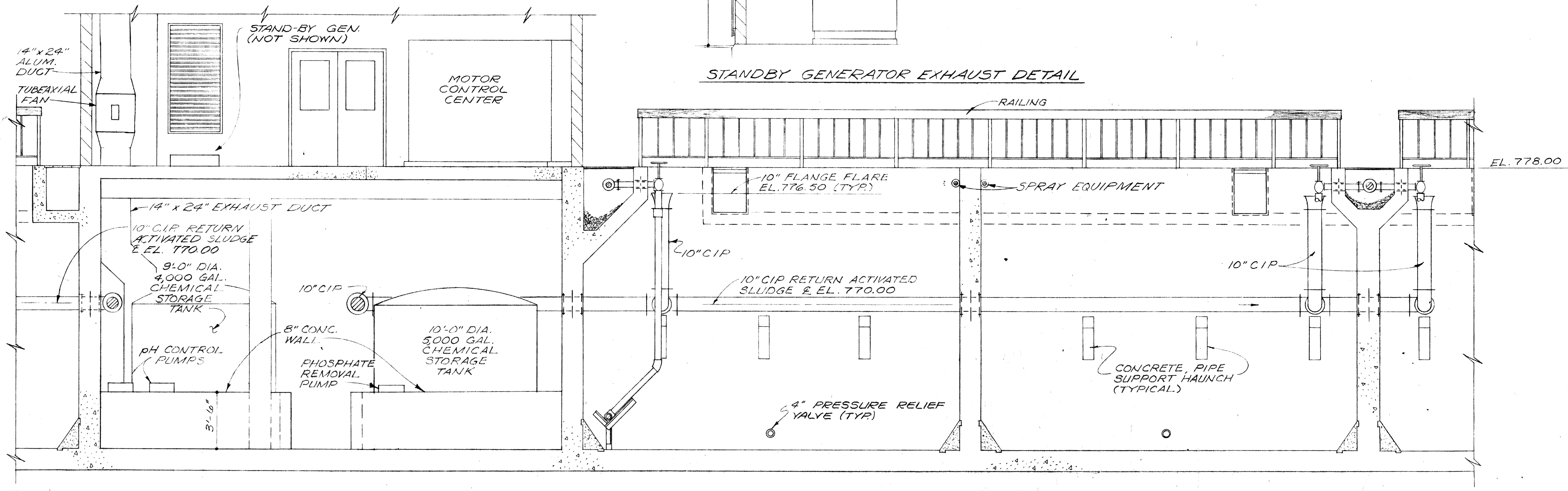


SECTION C

- ◇ ALL AIR LINES IN WYE WALL @ INV. EL. 776.50.
- ◇ ALL AIR LINES IN WYE WALL @ INV. EL. 776.58.
- ◇ ALL AIR LINES IN WYE WALL @ INV. EL. 776.67.



SLIDE GATE DETAIL
SCALE: NONE

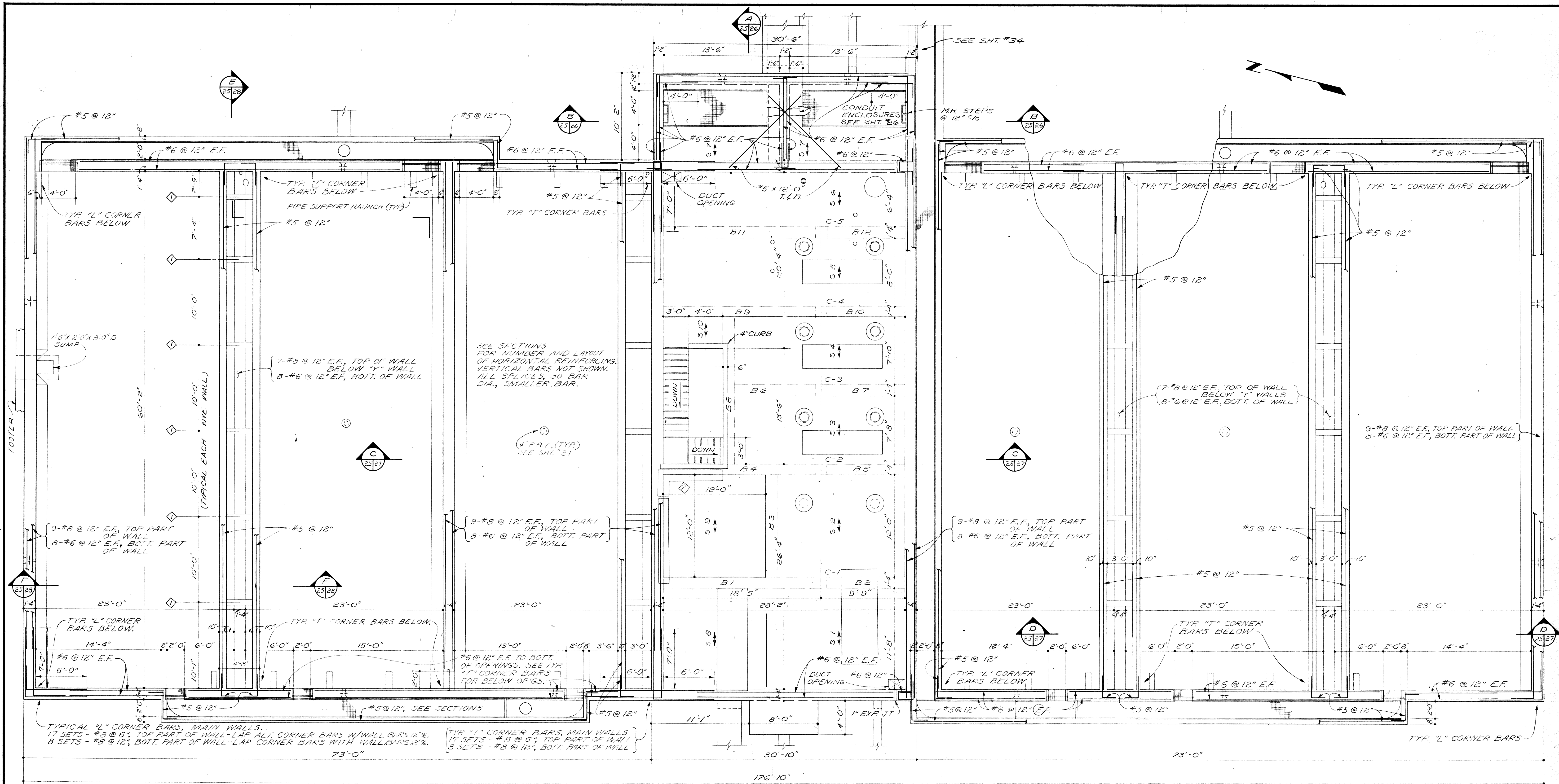


SECTION D

BURGESS & NIPLE, LIMITED CONSULTING ENGINEERS
COLUMBUS, OHIO

DELAWARE COUNTY, OHIO
OLENTANGY ENVIRONMENTAL CONTROL CENTER
BLOWER BUILDING &
AERATION TANKS
SECTIONS & DETAILS

REVISIONS APRIL, 1975	DRAWN BY RMW TRACED BY G.M.D.	CHECKED BY APPROVED BY
JUNE, 1973	SCALE: 1/4"=1'-0" UNLESS NOTED	SHEET 24 OF 75



SEE SECTIONS FOR NUMBER AND LAYOUT OF HORIZONTAL REINFORCING. VERTICAL BARS NOT SHOWN. ALL SPLICES, 30 BAR DIA., SMALLER BAR.

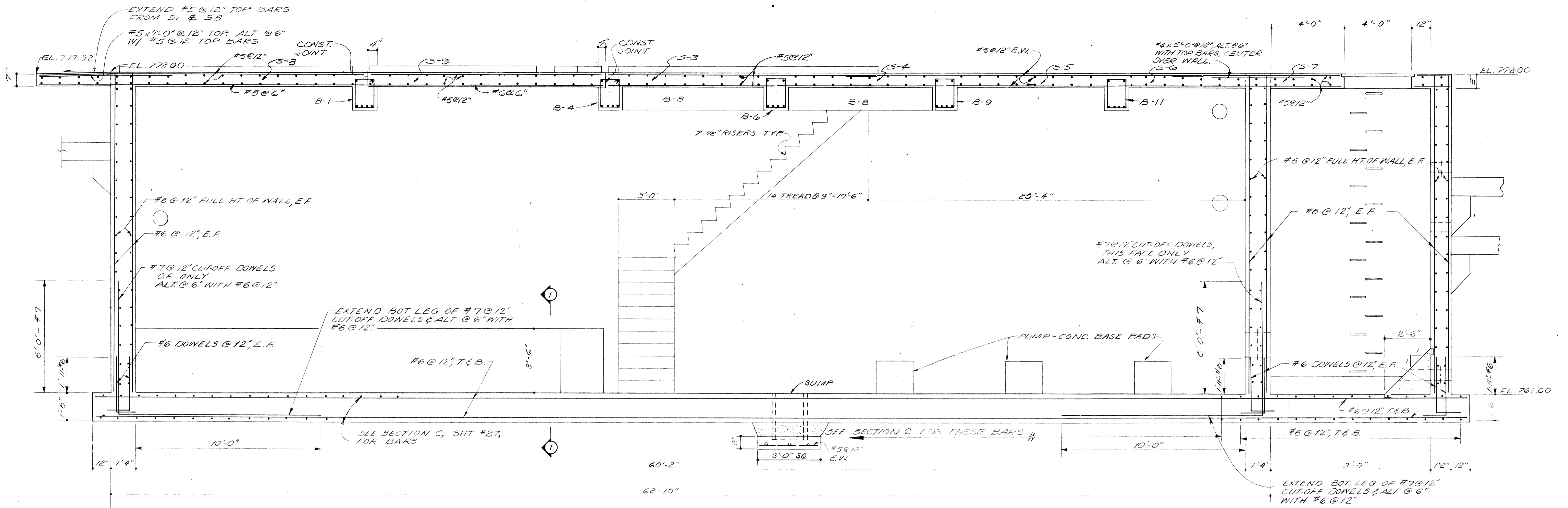
- ① 8" WIDE CONCRETE PIPE SUPPORT. PROVIDE DRAIN IN BOTTOM OF EACH SUPPORT. REINFORCING STEEL IS #5 @ 12" E.W.
- ② SLAB AREA TO BE BOXED OUT PENDING CHEM. STORAGE TANK DELIVERY.

NOTE:
ALL COLUMNS (C-1 TO C-5) ARE 16" x 16", 4-#6 VERT. BARS, 4-#6 DOWELS IN FOUNDATION SLAB #3 TIES @ 12"

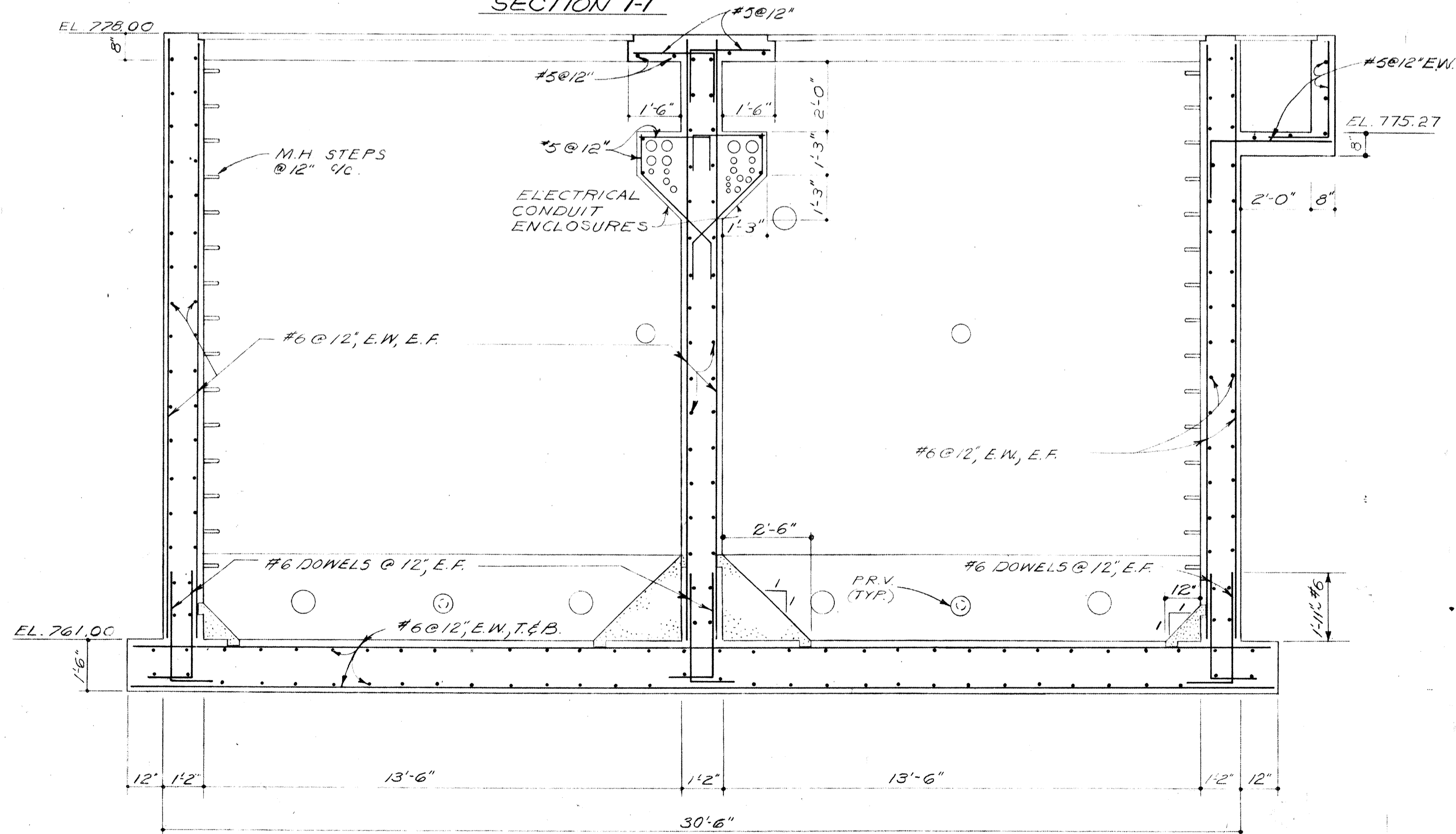
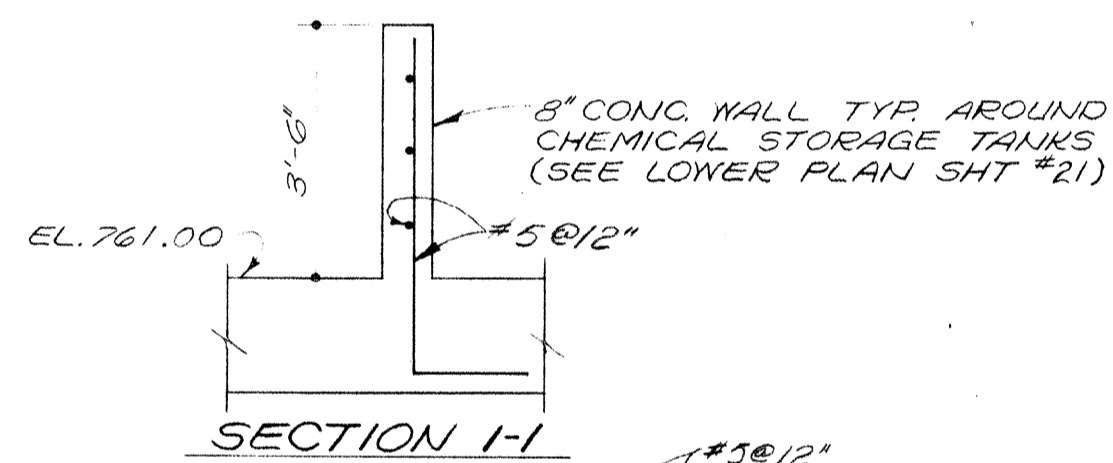
NOTE:
HANDRAIL NOT SHOWN. SEE MECHANICAL DRAWINGS FOR ARRANGEMENT.
SEE SHT. #26 FOR SLAB AND BEAM SCHEDULE.

UPPER PLAN
(SEE MECHANICAL SHT. FOR LOWER PLAN)

BURGESS & NIPLE, LIMITED		CONSULTING ENGINEERS
		COLUMBUS, OHIO
DELAWARE COUNTY, OHIO		
OLENTANGY ENVIRONMENTAL CONTROL CENTER		
CONCRETE & REINFORCING STEEL		
BLOWER BUILDING & AERATION TANKS		
REVISIONS APRIL, 1975	DRAWN BY G.M.D. TRACED BY DEH	CHECKED BY APPROVED BY
JUNE, 1973	SCALE: 3/16"=1'-0"	SHEET 25 OF 75



SECTION A



SECTION B

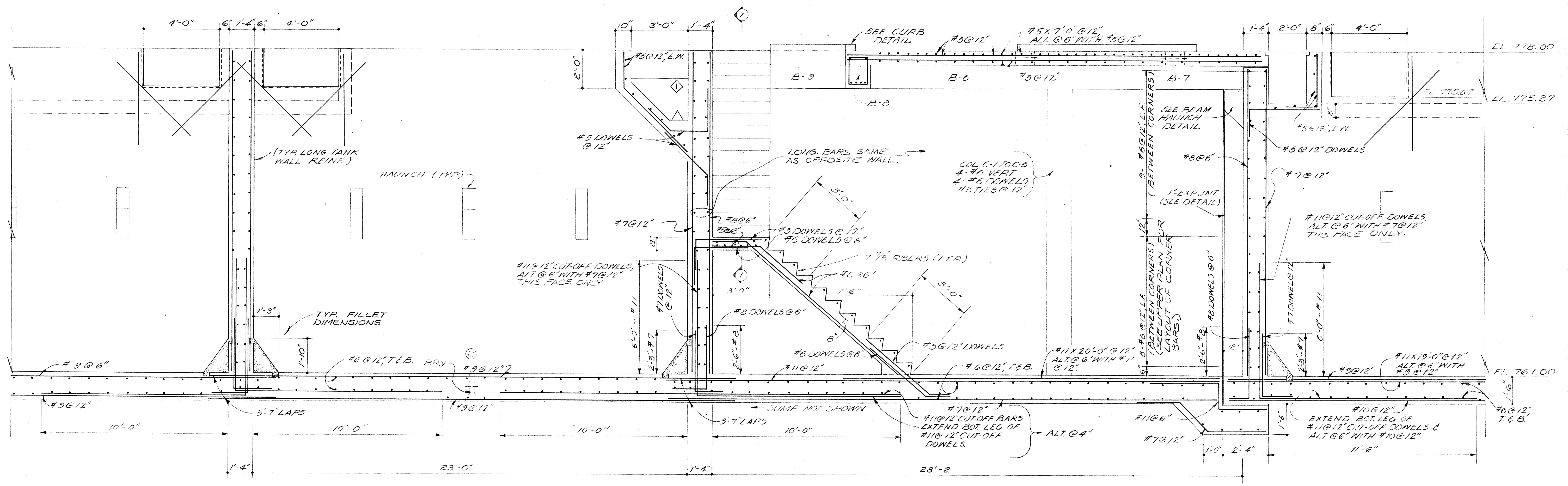
CONCRETE BEAM SCHEDULE						
MARK	SIZE		REINFORCING		REMARKS	#3 CLOSED STIRRUPS SPACING FROM FACE OF SUPPORTS, EA. END
	b	d	BOTTOM	TOP		
B1	16"	27"	4-#11	2-#11 CONT.	SEE B2	2@3; 3@4; 1@8; 1@12
B2	16"	27"	4-#5	2-#11 CONT. EXTEND 2-#11x16'-0" TOP BARS INTO TOP OF B1.		4@6; 1@8; 1@12
B3	16"	18"	4-#9	2-#7		4@4; 2@6; 2@12
B4	16"	24"	4-#10	2-#10 CONT.	SEE B5	2@3; 2@4; 1@8; 1@12
B5	16"	24"	4-#5	2-#10 CONT. EXTEND 2-#10x16'-0" TOP BARS INTO TOP OF B4.		4@6; 1@8; 1@12
B6	16"	24"	4-#5	2-#5 CONT. CENTER 2-#5 x 6'-0" OVER COLUMN.		4@6; 1@8; 1@12
B7	16"	24"	4-#5	2-#5 CONT.	SEE B6	4@6; 1@8; 1@12
B8	16"	24"	4-#8	2-#7		7@12
B9	16"	24"	4-#10	2-#9 CONT.	SEE B10	7@4; 3@6; 2@8; 2@12
B10	16"	24"	4-#5	2-#9 CONT. EXTEND 2-#9x16'-0" TOP BARS INTO TOP OF B9.		4@6; 1@8; 1@12
B11	16"	24"	2-#8 2-#9	2-#8 CONT.	SEE B12	4@6; 3@8; 3@12
B12	16"	24"	4-#5	2-#8 CONT. EXTEND 2-#8x16'-0" TOP BARS INTO TOP OF B11.		4@6; 1@8; 1@12

CONCRETE SLAB SCHEDULE							
MARK	DEPTH	REINFORCING					REMARKS
		9" BOTTOM	"A" TOP	"A" EXTRA TOP	"B" BOTTOM	"B" TOP	
S1	8"	#3@8"	#5@12"	#3x7'-0" @ 12" ALT. @ 6" WITH TOP BARS. CENTER OVER B-1 & B-2.	#5@12"	#5@12"	
S2	8"	#5@8"	#5@12"	#5x7'-0" @ 12" ALT. @ 5" WITH TOP BARS. CENTER OVER B-4 & B-5.	#5@12"	#5@12"	
S3	8"	#5@12"	#5@12"		#5@12"	#5@12"	
S4	8"	#5@12"	#5@12"		#5@12"	#5@12"	
S5	8"	#5@12"	#5@12"		#5@12"	#5@12"	
S6	8"	#5@12"	#5@12"	#4x5'-0" @ 12" ALT. @ 6" WITH TOP BARS. CENTER OVER WALL BETWEEN S6 & S7.	#5@12"	#5@12"	
S7	8"	#5@12"	#5@12"		#5@12"	#5@12"	
S8	8"	#8@6"	#5@12"		#5@12"	#5@12"	
S9	8"	#6@6"	#5@12"		#5@12"	#5@12"	
S10	8"	#5@12"	#5@12"		#5@12"	#5@12"	EXTEND TOP BARS FROM S5 INTO TOP OF S10.

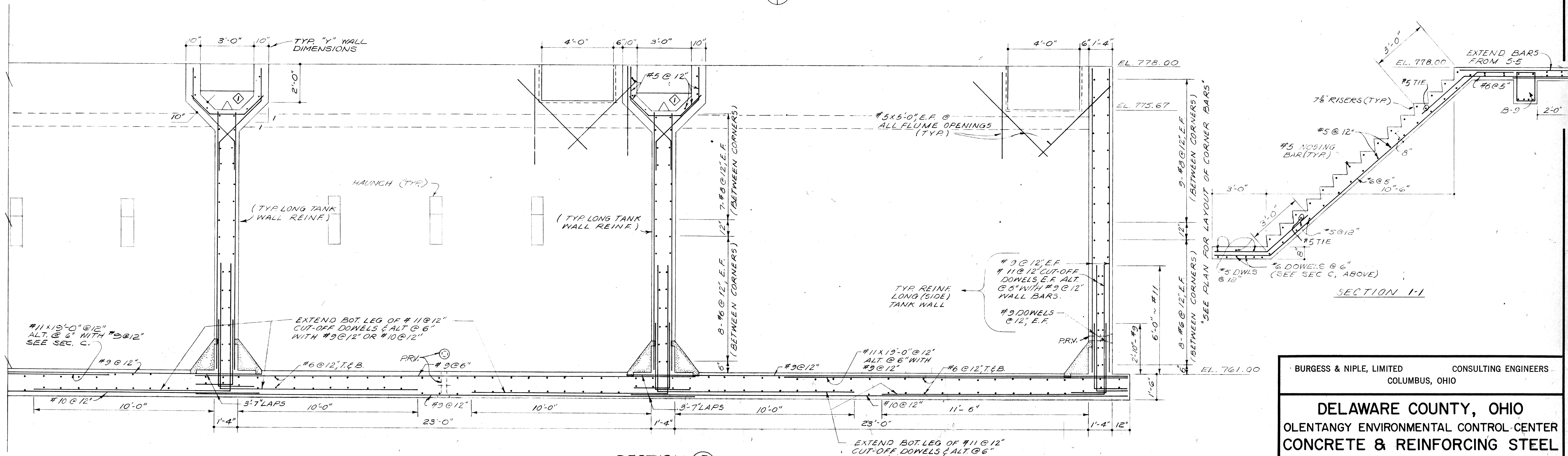
BURGESS & NIPLE, LIMITED CONSULTING ENGINEERS
COLUMBUS, OHIO

DELAWARE COUNTY, OHIO
OLENTANGY ENVIRONMENTAL CONTROL CENTER
CONCRETE & REINFORCING STEEL
BLOWER BUILDING

REVISIONS APRIL, 1975	DRAWN BY H.S.	CHECKED BY
	TRACED BY DEH	APPROVED BY
JUNE, 1973	SCALE: 3/8"=1'-0"	SHEET 26 OF 75



SECTION C
25/27



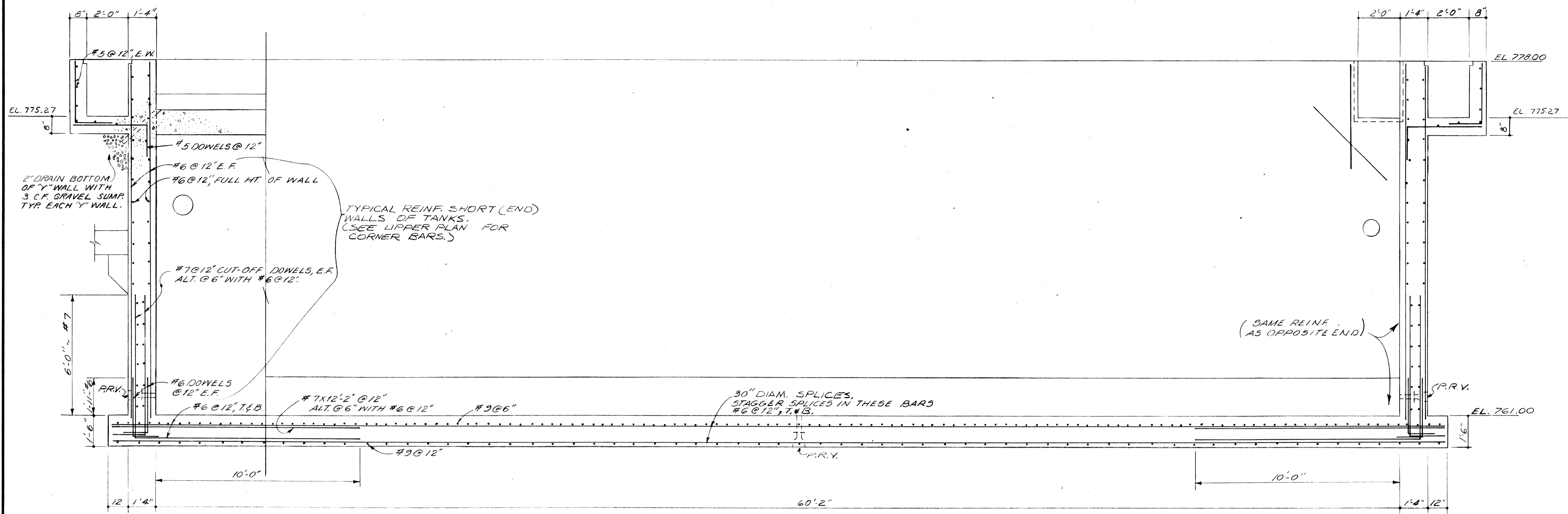
SECTION D
25/27

BURGESS & NIPLE, LIMITED CONSULTING ENGINEERS
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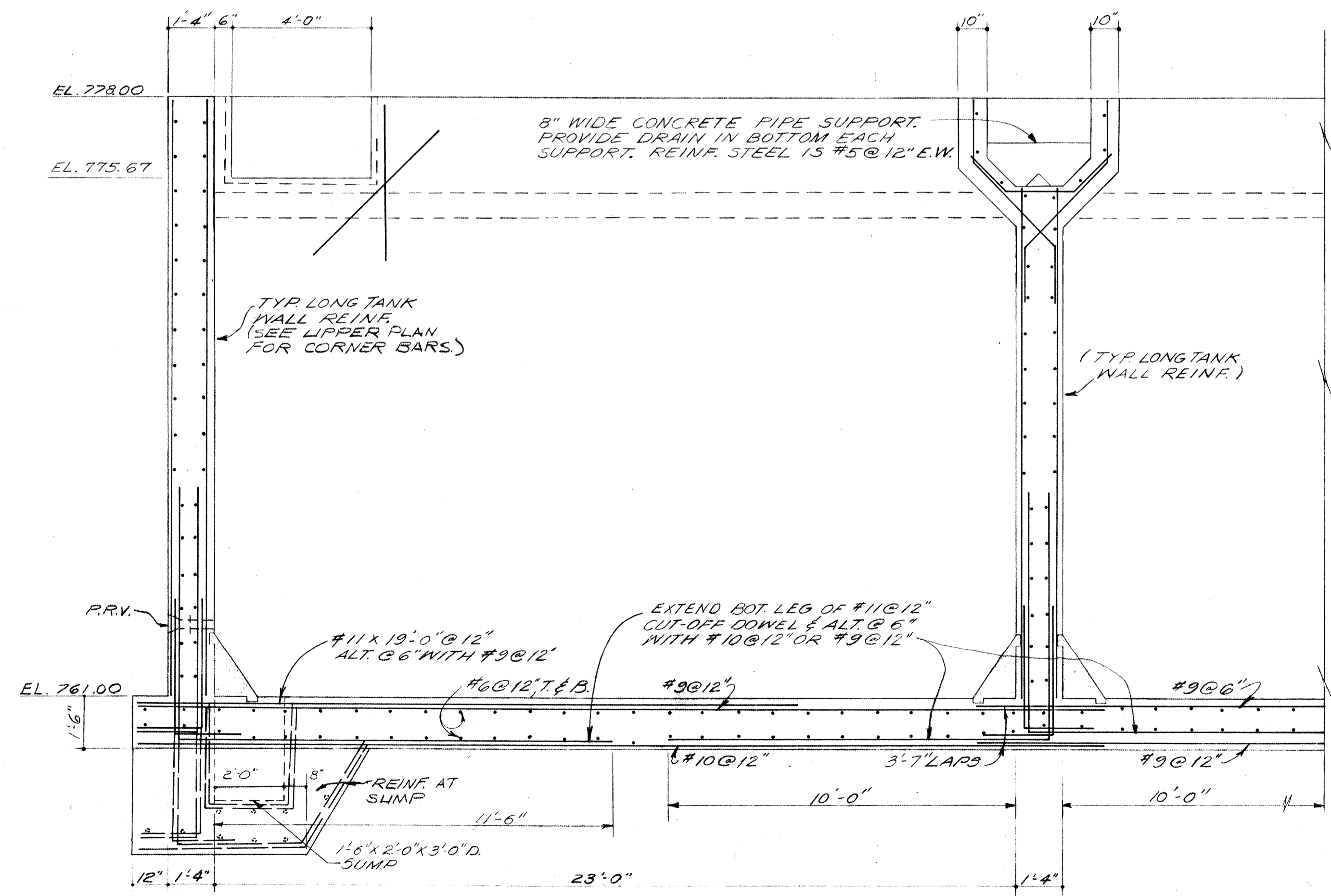
DELAWARE COUNTY, OHIO
OLENTANGY ENVIRONMENTAL CONTROL-CENTER
CONCRETE & REINFORCING STEEL
BLOWER BUILDING &
AERATION TANKS

REVISIONS	DRAWN BY H.S.	CHECKED BY
APRIL, 1975	TRACED BY W.A.W.	APPROVED BY
JUNE, 1973	SCALE: 3/8" = 1'-0"	SHEET 27 OF 75

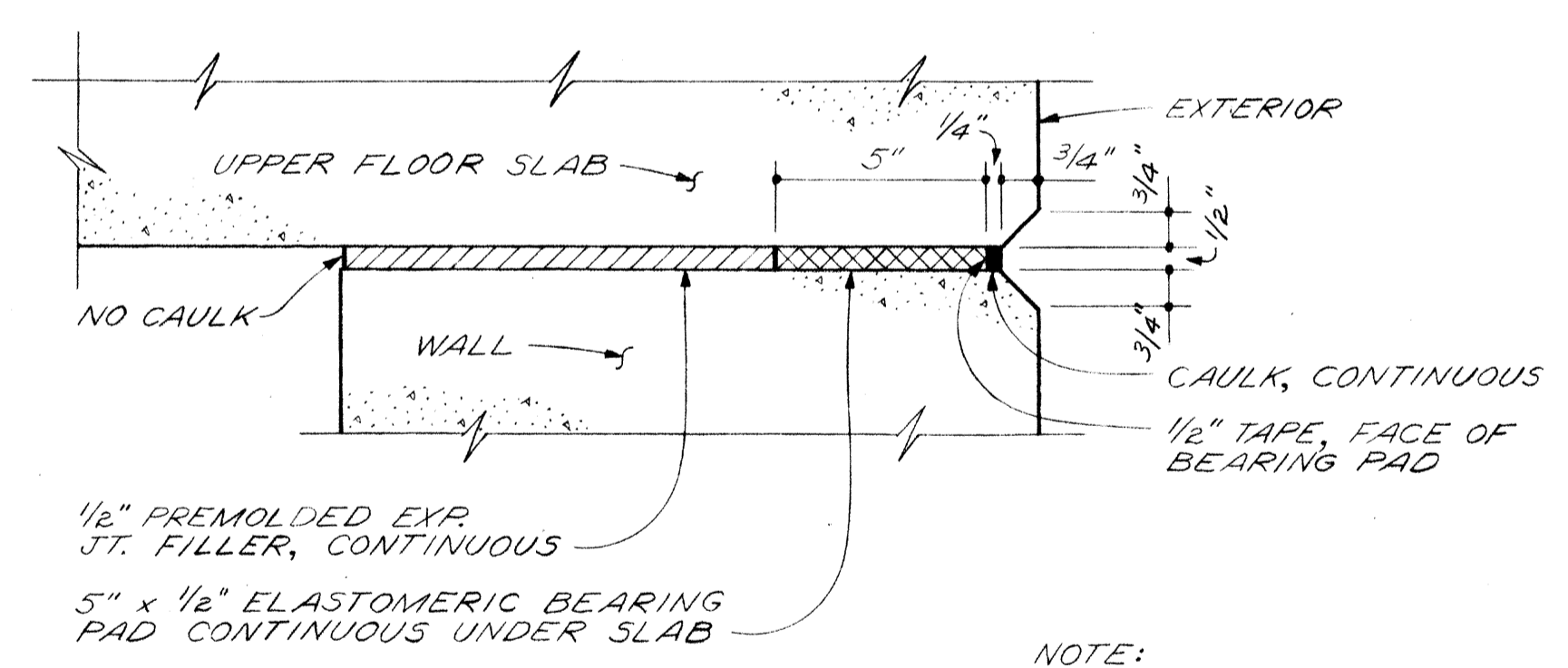
8" WIDE CONCRETE PIPE SUPPORT PROVIDE DRAIN IN BOTTOM EACH SUPPORT. REINFORCING STEEL IS #5 @ 12" E.W.



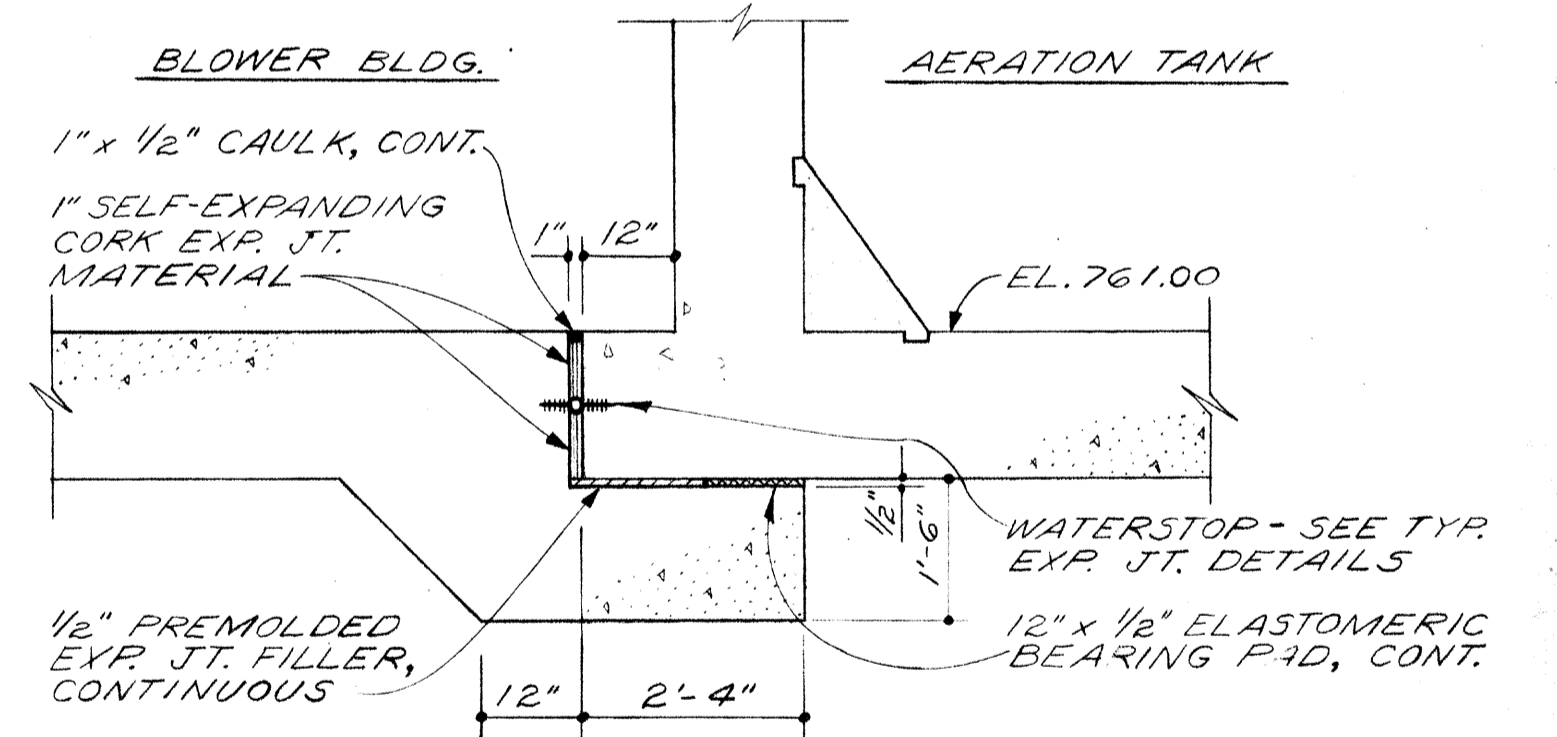
SECTION E
SCALE: 3/8" = 1'-0" 25/28



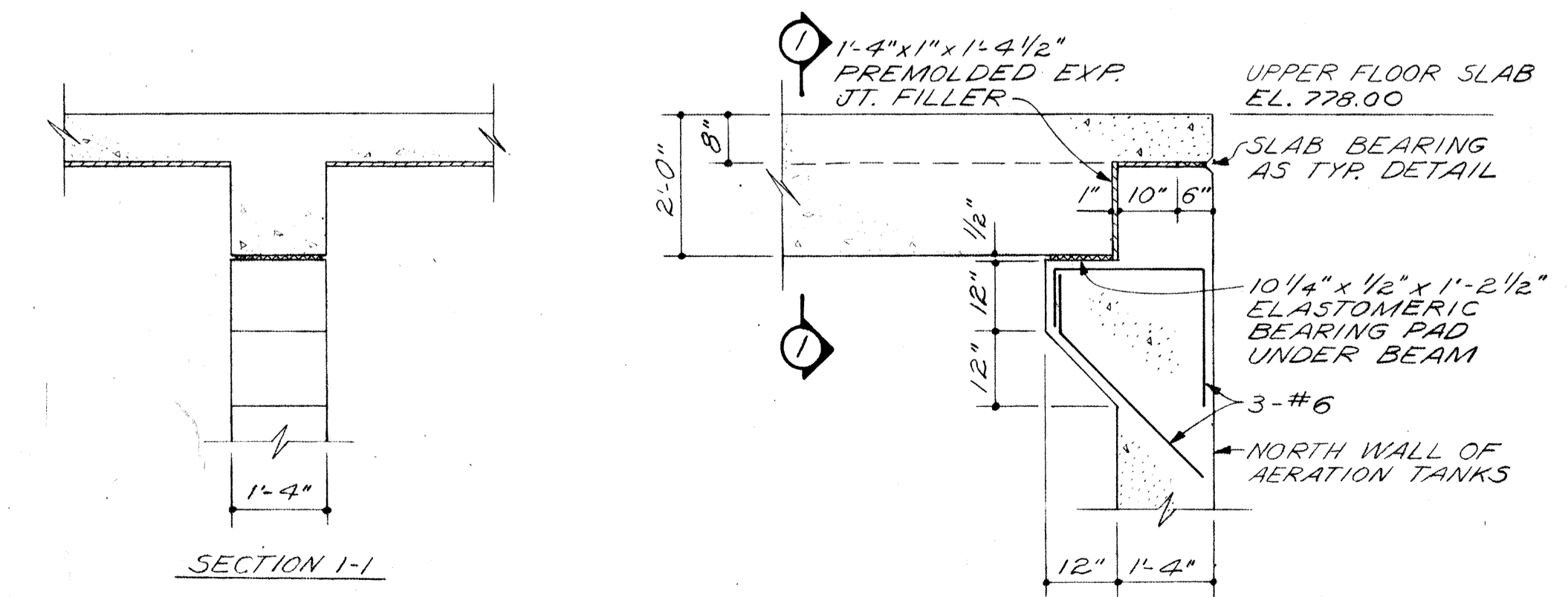
SECTION F
SCALE: 3/8" = 1'-0" 25/28



SLAB BEARING DETAILS
(AT EXPANSION END)
SCALE: 3" = 1'-0"

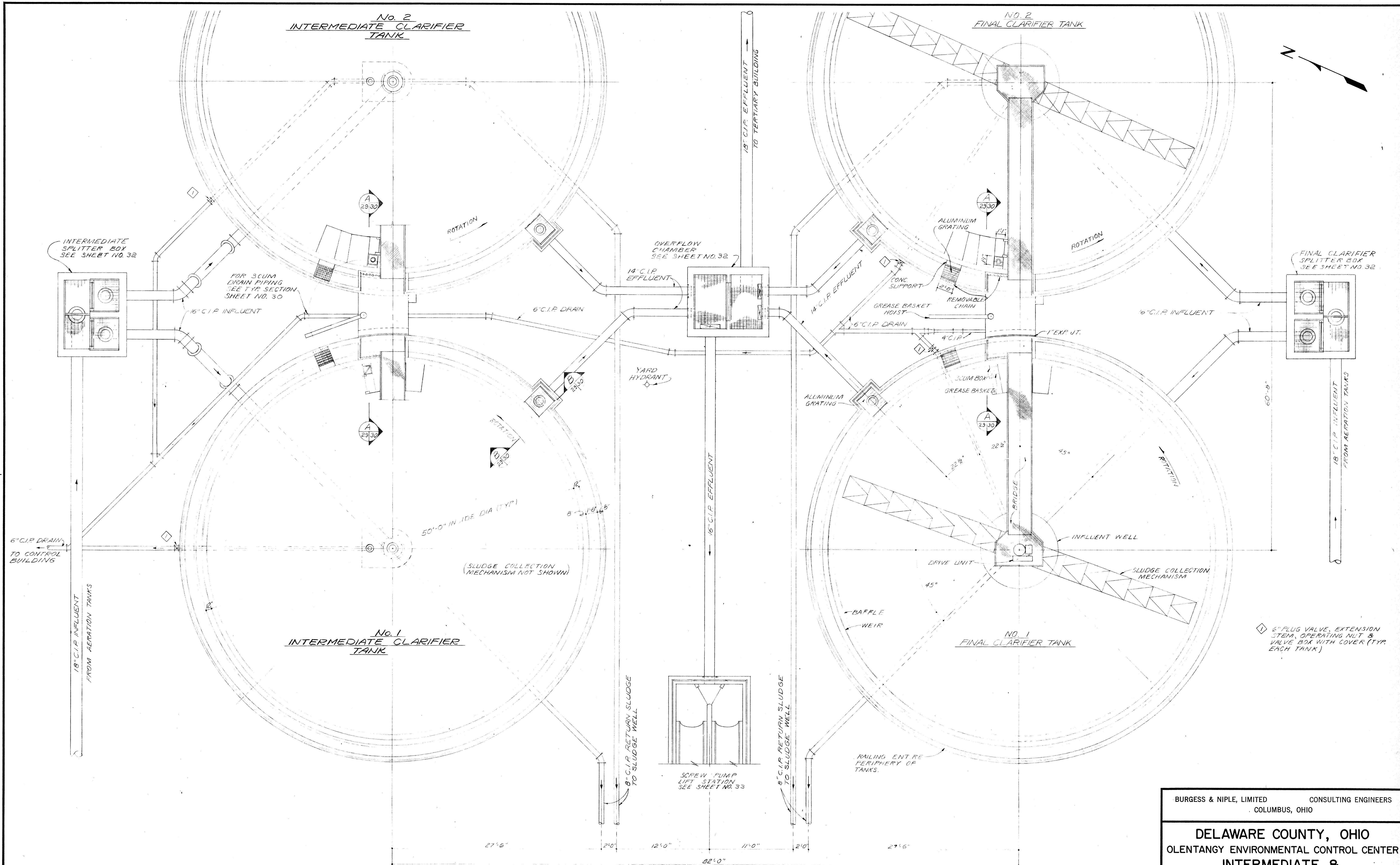


EXPANSION JOINT DETAILS
(AT BOTTOM SLAB)
SCALE: 1/2" = 1'-0"



SECTION I-1
TYPICAL BEAM & HAUNCH DETAIL
SCALE: 1/2" = 1'-0"
EXPANSION JOINT DETAILS FOR BEAMS & FLOOR SLABS

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DELAWARE COUNTY, OHIO		
OLENTANGY ENVIRONMENTAL CONTROL CENTER		
CONCRETE & REINFORCING STEEL		
AERATION TANKS		
REVISIONS APRIL, 1975	DRAWN BY TCC	CHECKED BY
	TRACED BY R.P.	APPROVED BY
JUNE, 1973	SCALE: AS NOTED	SHEET 28 OF 75

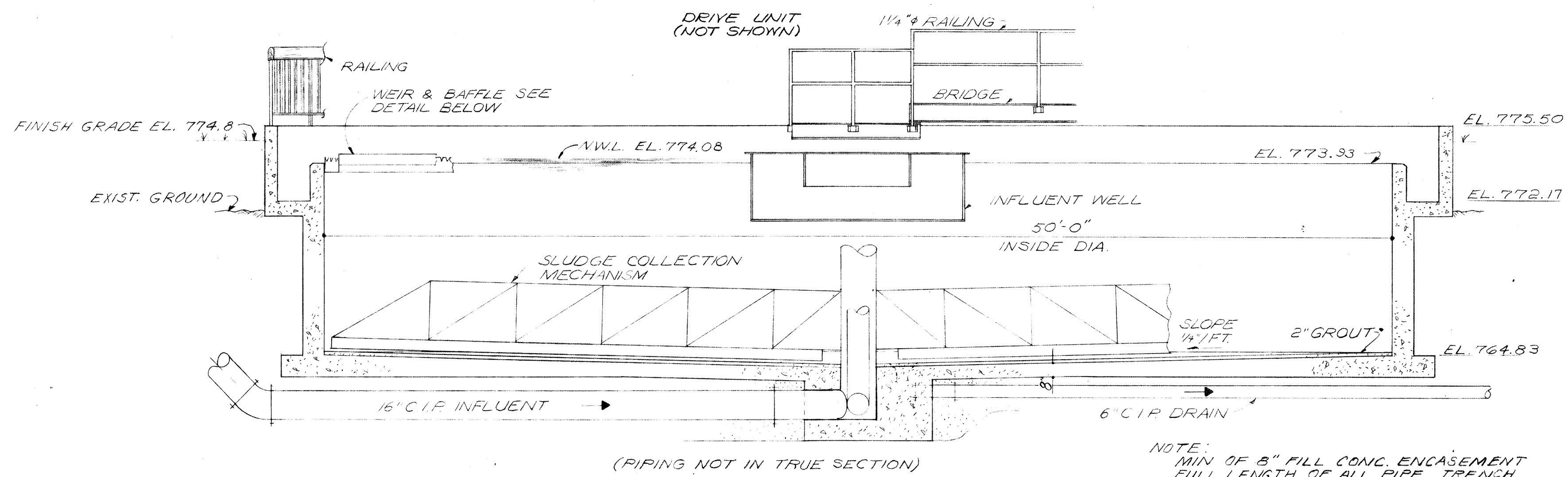


BURGESS & NIPLE, LIMITED CONSULTING ENGINEERS
COLUMBUS, OHIO

**DELAWARE COUNTY, OHIO
OLENTANGY ENVIRONMENTAL CONTROL CENTER
INTERMEDIATE &
FINAL CLARIFIER TANKS
PLAN**

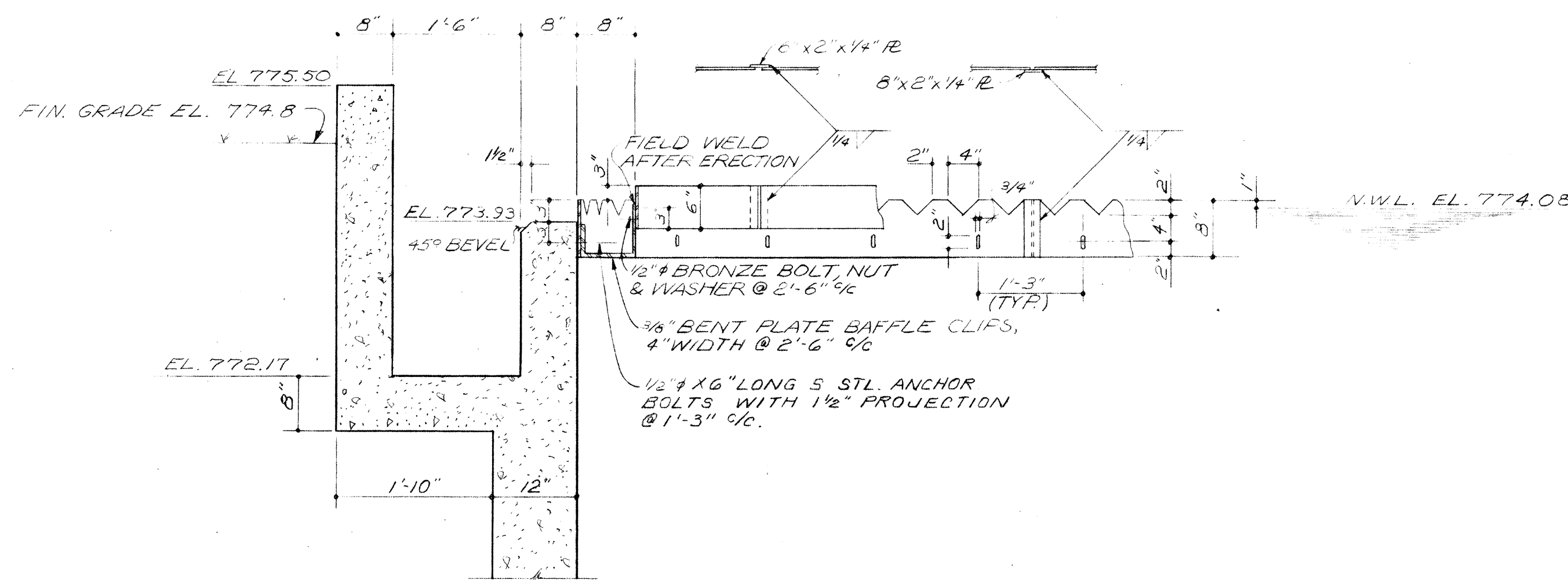
REVISIONS APRIL, 1975	DRAWN BY R.M.W. TRACED BY D.A.H.	CHECKED BY APPROVED BY
JUNE, 1973	SCALE: 3/16" = 1'-0"	SHEET 29 OF 75

NOTE:
ALL FOUR TANKS
SIMILAR IN CONSTRUCTION.

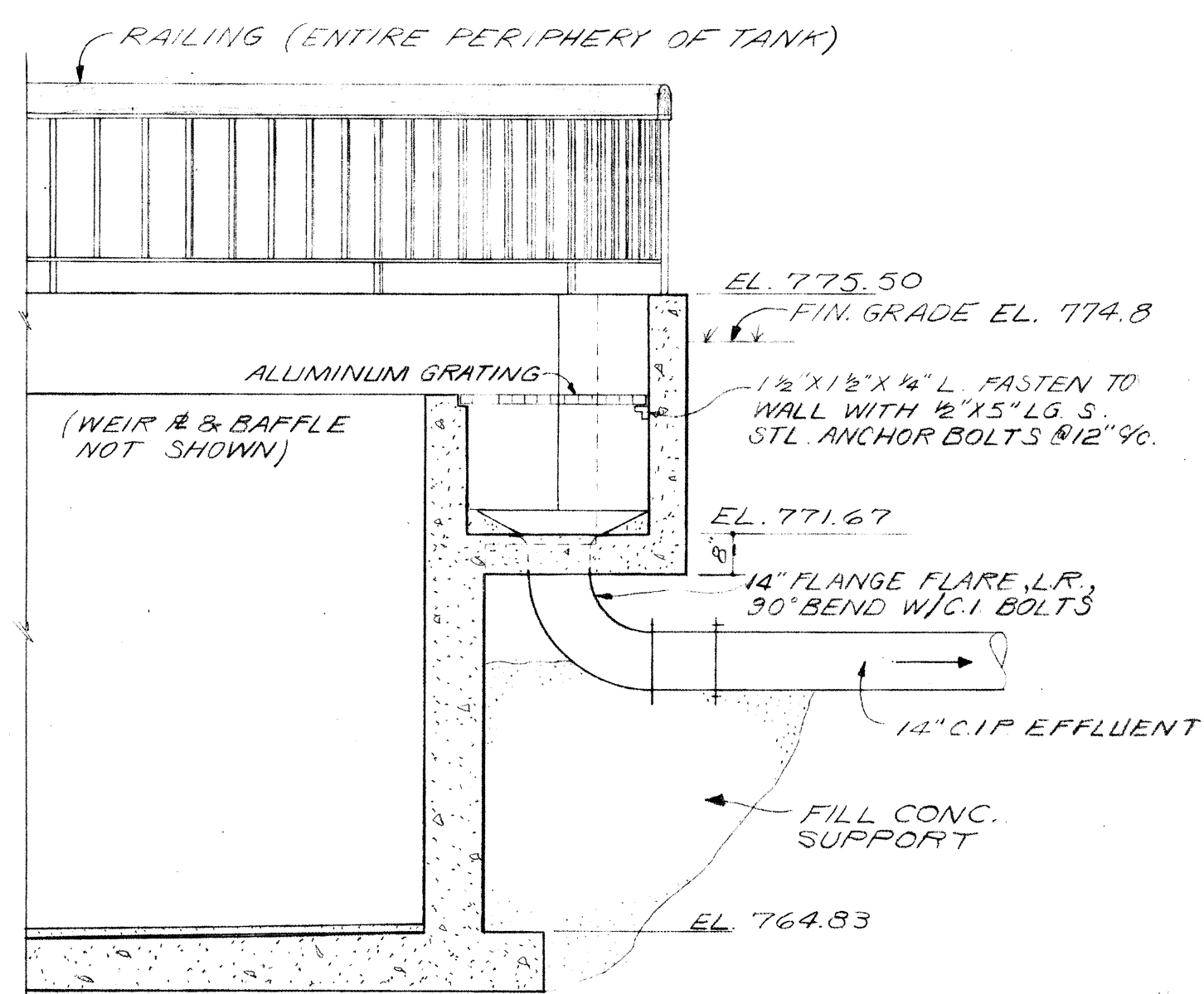


TYPICAL SECTION THRU TANK
SCALE: 1/4" = 1'-0"

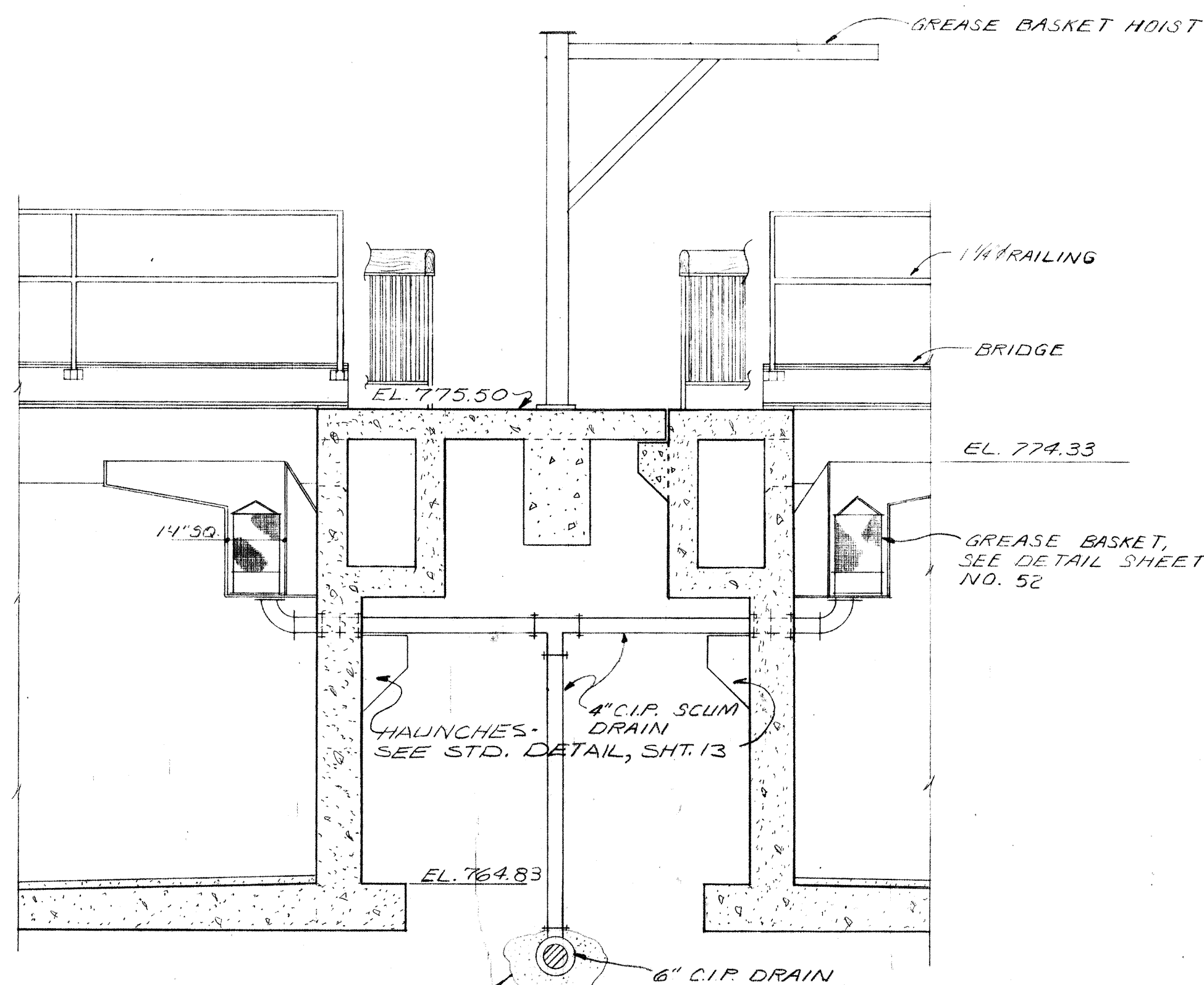
NOTE:
MIN. OF 8" FULL CONC. ENCASEMENT
FULL LENGTH OF ALL PIPE TRENCH
EXCAVATION UNDER TANK SLAB.



EFFLUENT FLUME, WEIR & BAFFLE DETAIL
SCALE: NONE



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

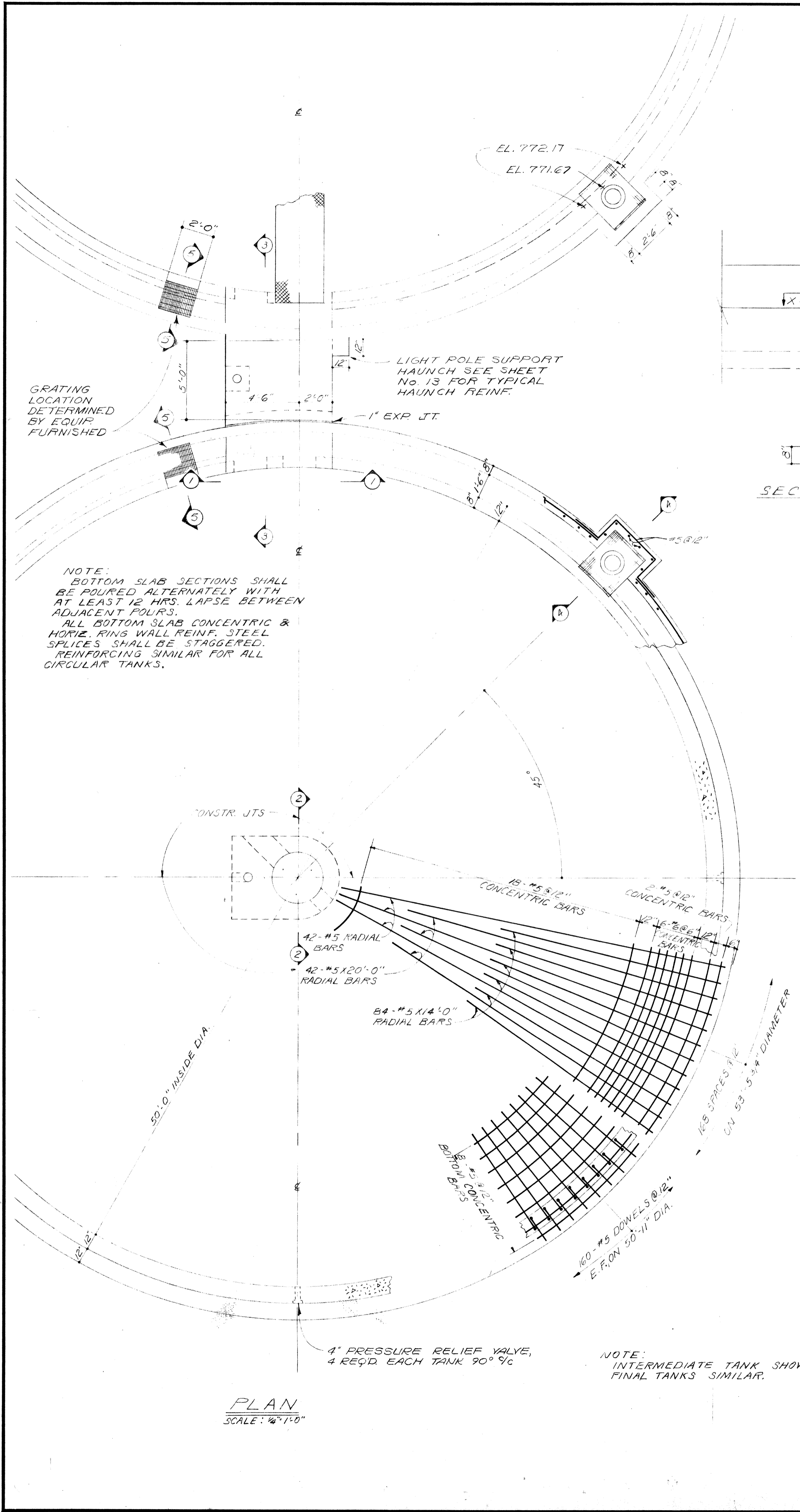


SECTION A
SCALE: 3/8" = 1'-0"

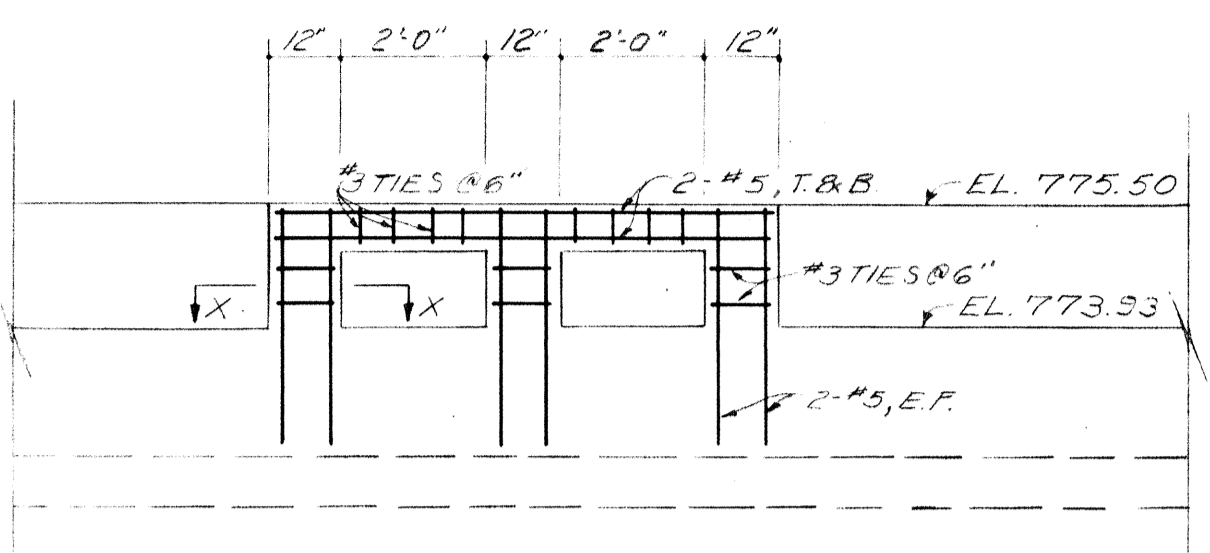
BURGESS & NIPLÉ, LIMITED CONSULTING ENGINEERS
COLUMBUS, OHIO

DELAWARE COUNTY, OHIO
OLENTANGY ENVIRONMENTAL CONTROL CENTER
INTERMEDIATE &
FINAL CLARIFIER TANKS
SECTIONS & DETAILS

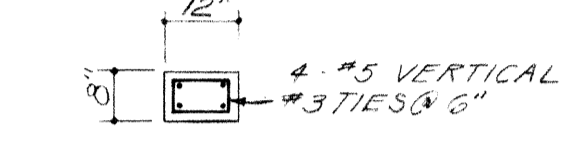
REVISIONS APRIL, 1975	DRAWN BY R.M.W. TRACED BY D.A.H.	CHECKED BY APPROVED BY
JUNE, 1973	SCALE: AS NOTED	SHEET 30 OF 75



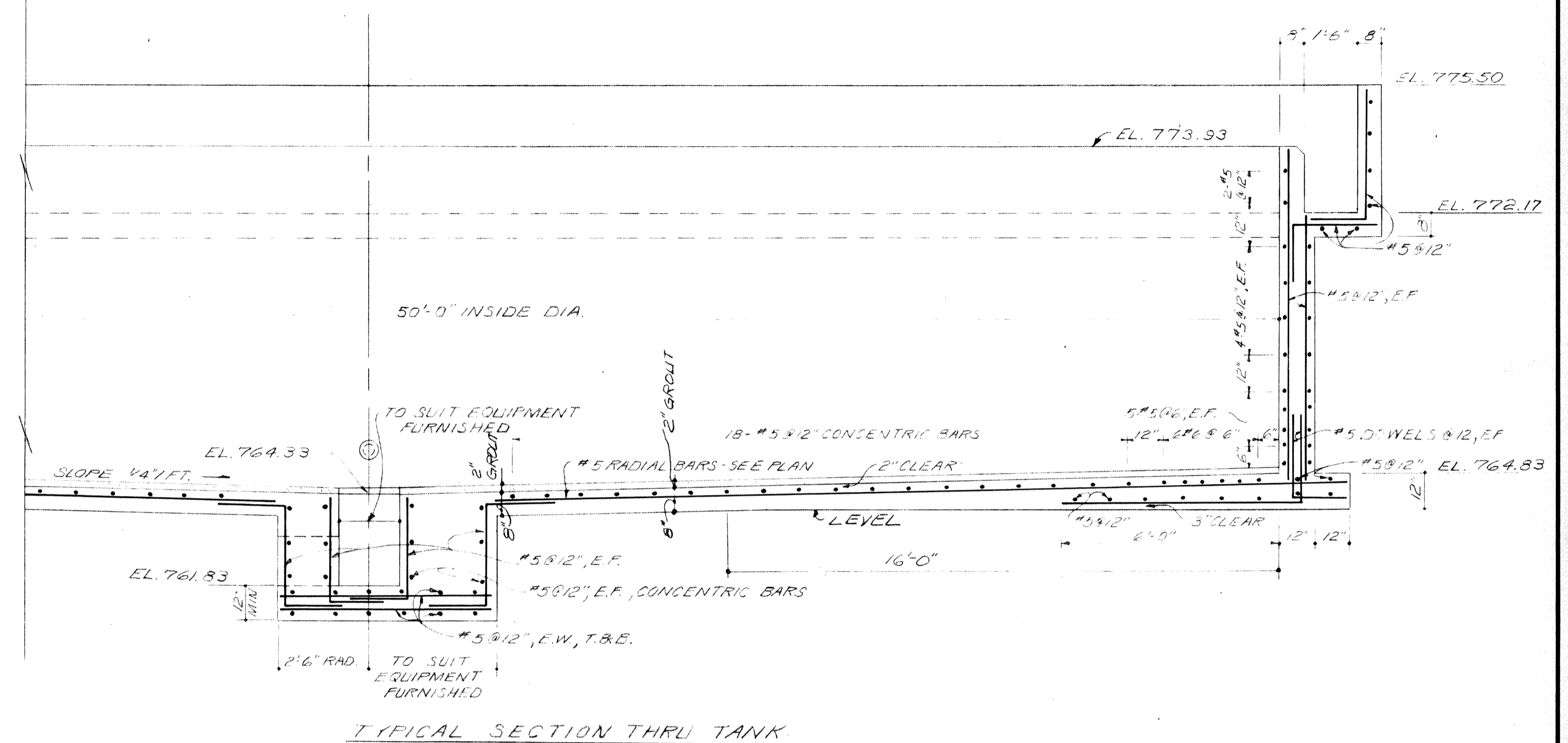
PLAN
SCALE: 1/4"=1'-0"



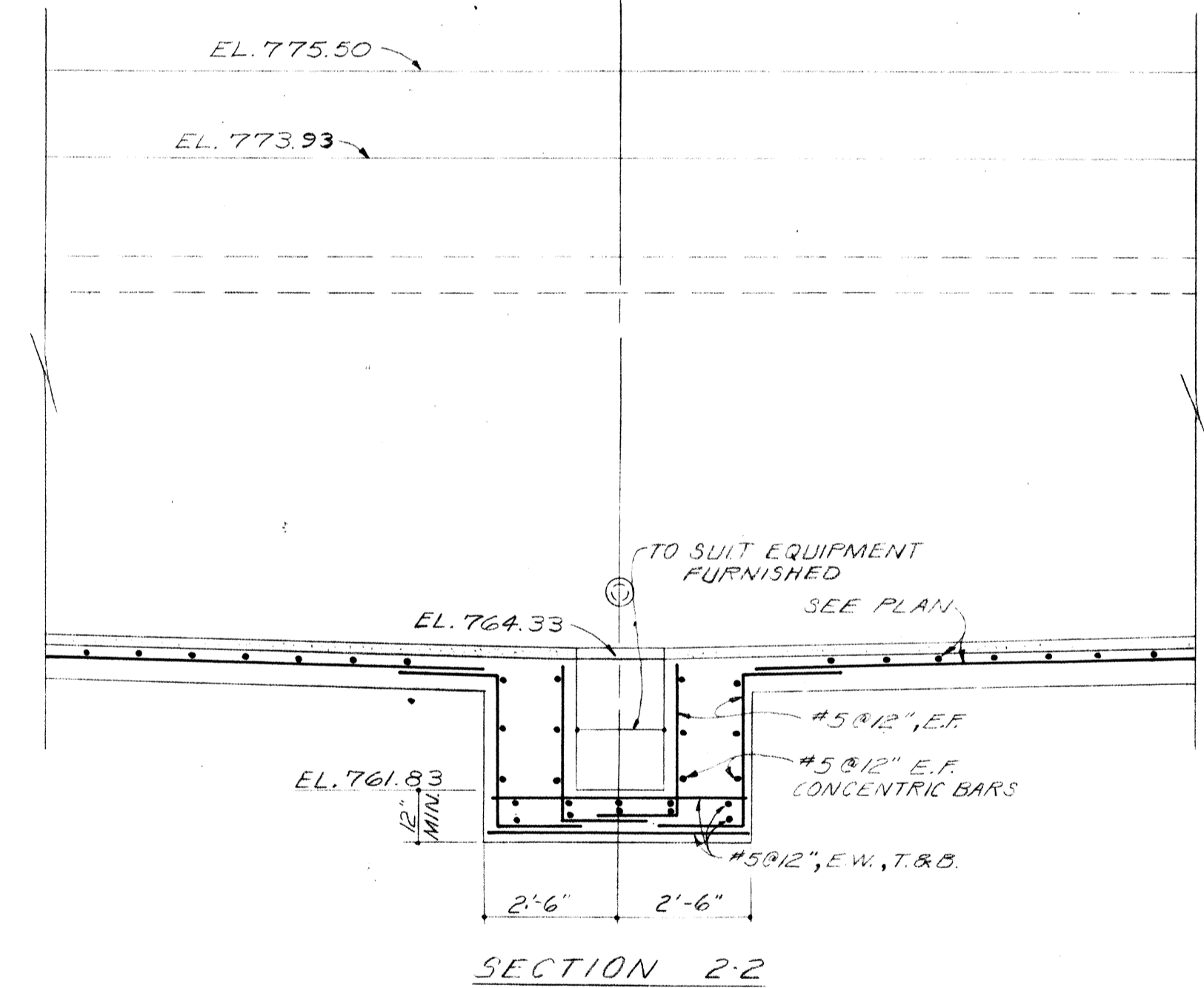
SECTION 1-1



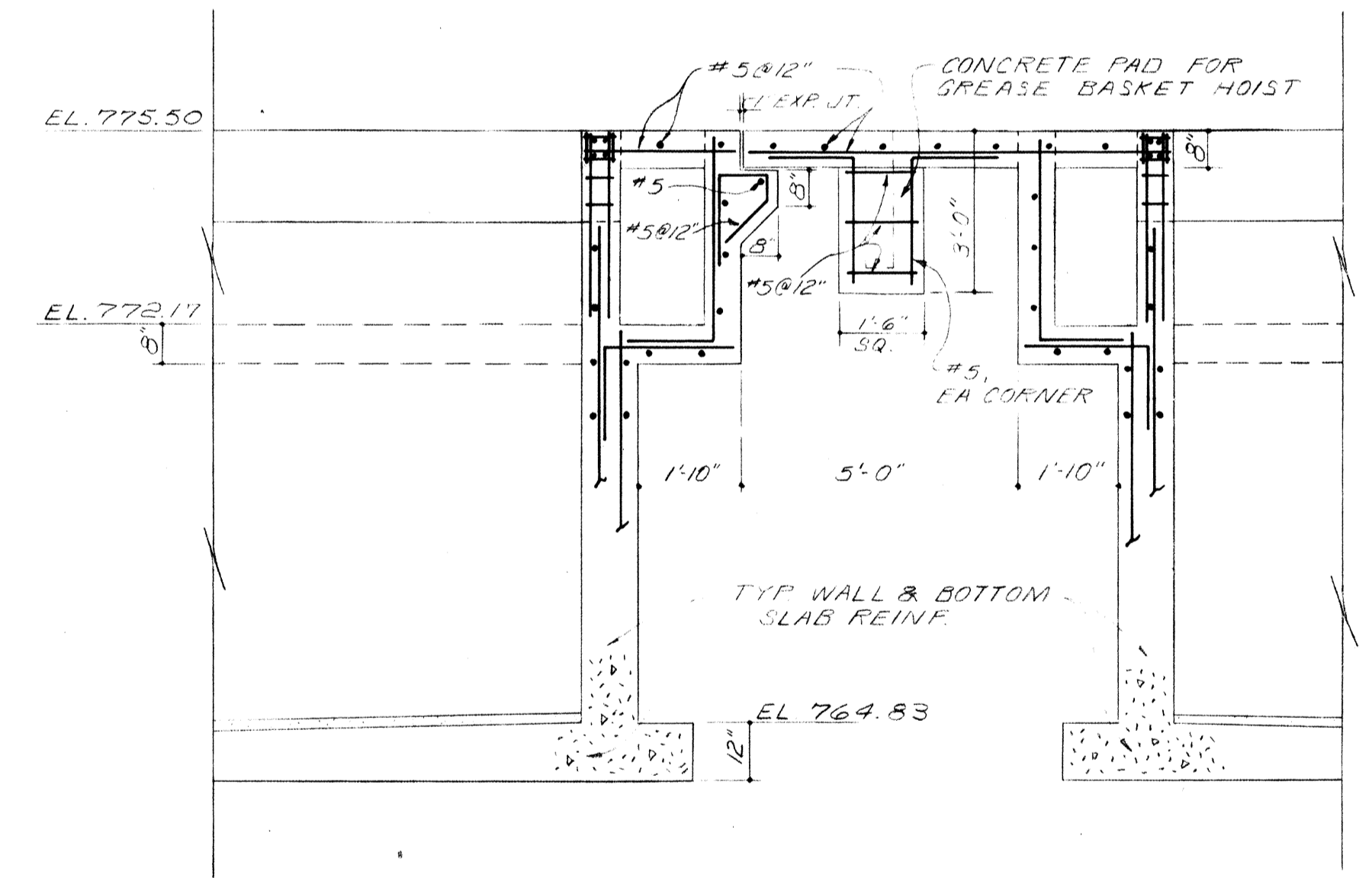
SECTION X-X



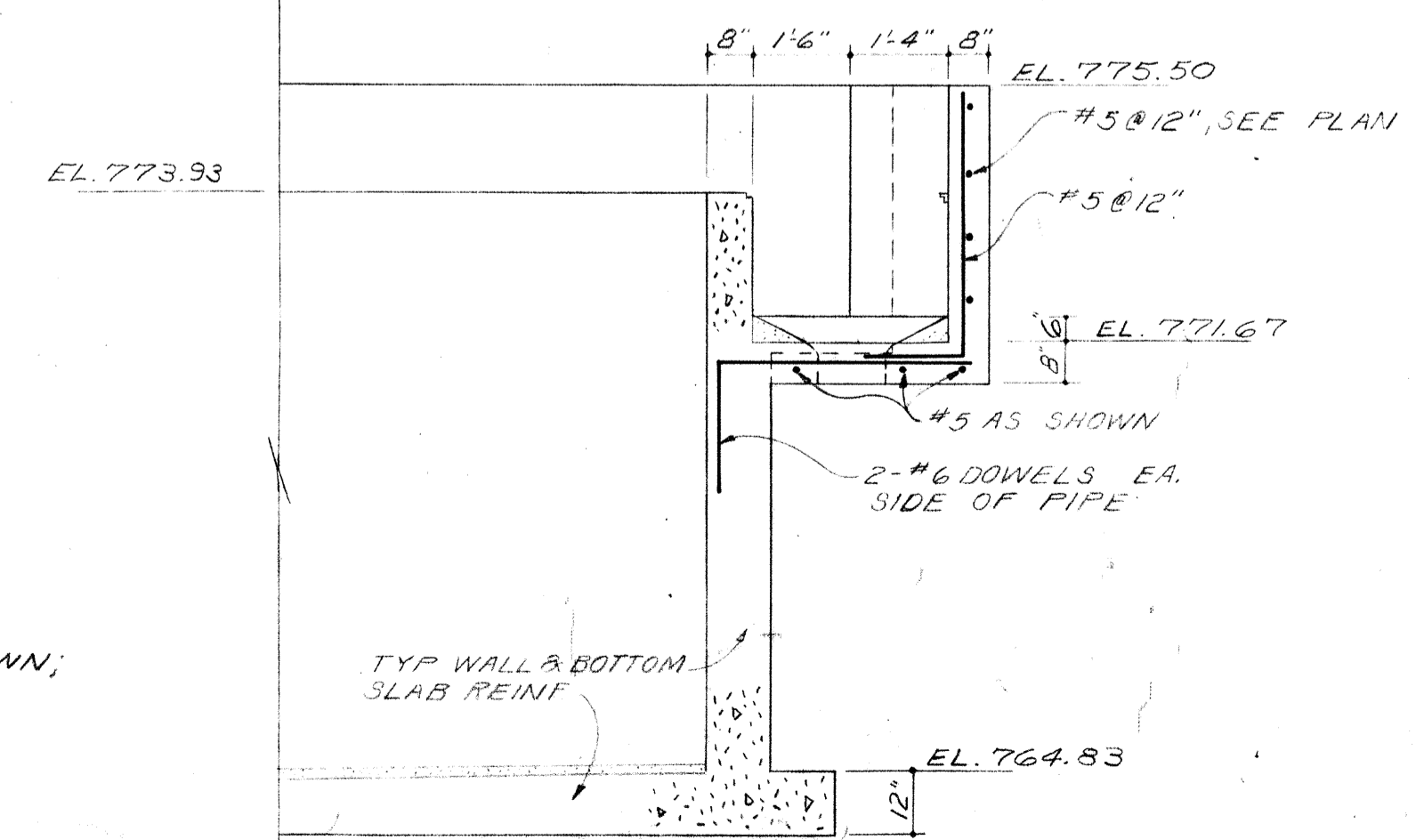
TYPICAL SECTION THRU TANK



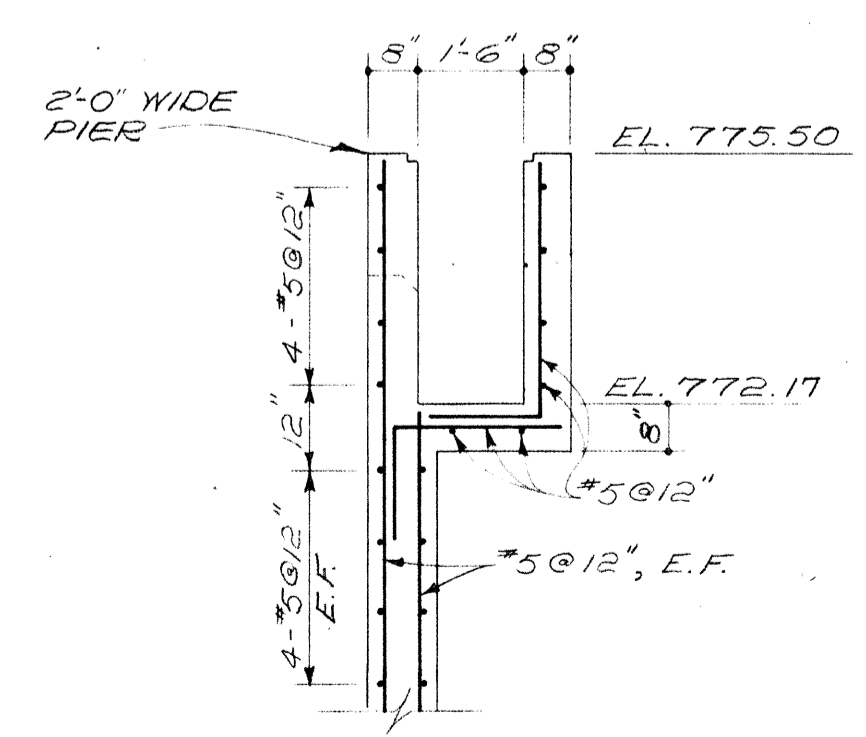
SECTION 2-2



SECTION 3-3



SECTION 4-4



SECTION 5-5

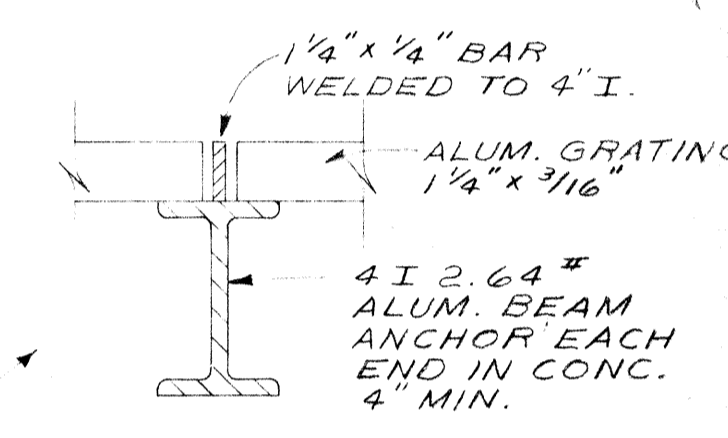
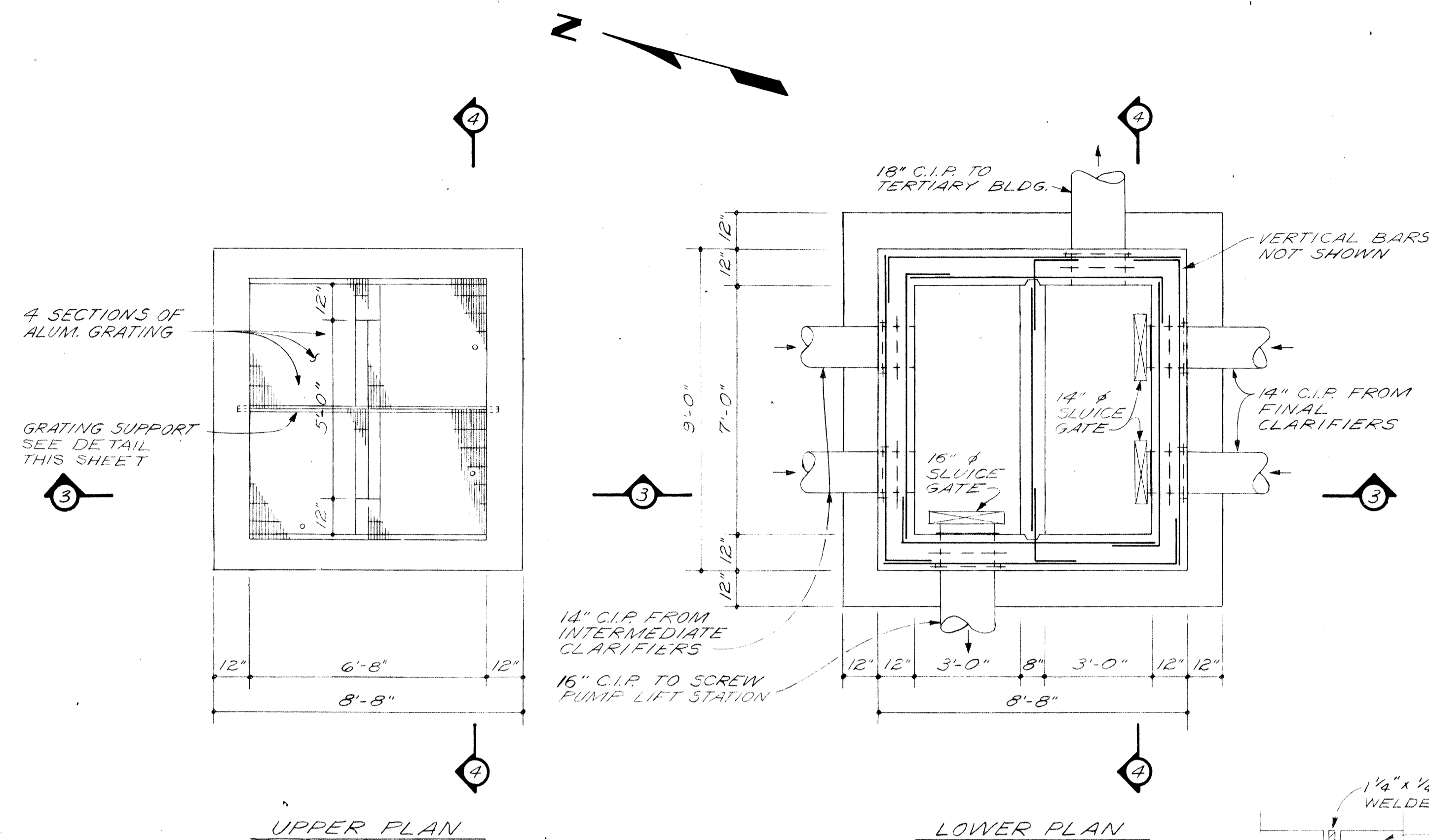
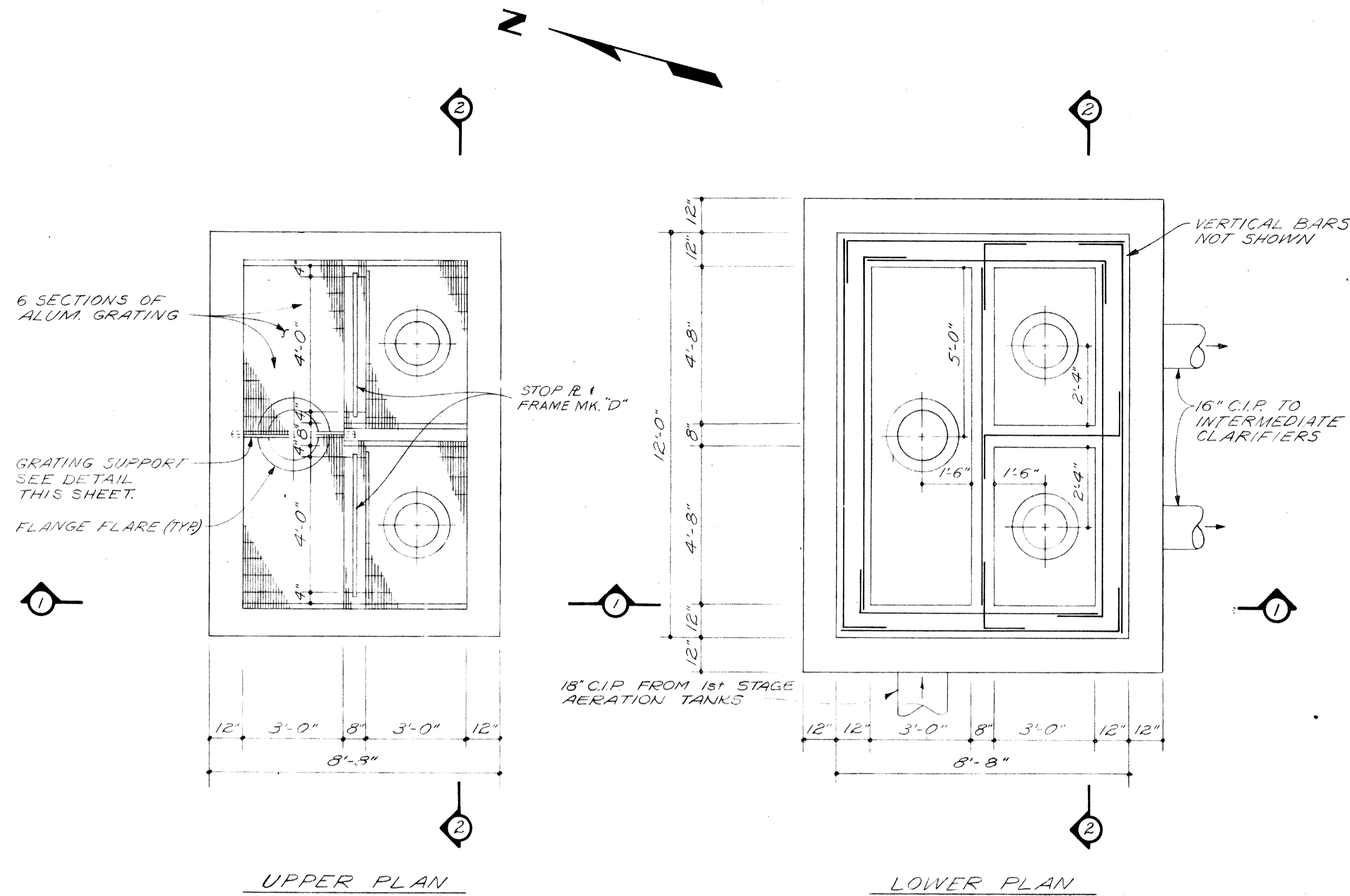
NOTE: INTERMEDIATE TANK SHOWN; FINAL TANKS SIMILAR.

1" PRESSURE RELIEF VALVE, 4 REQ'D. EACH TANK 90°/4

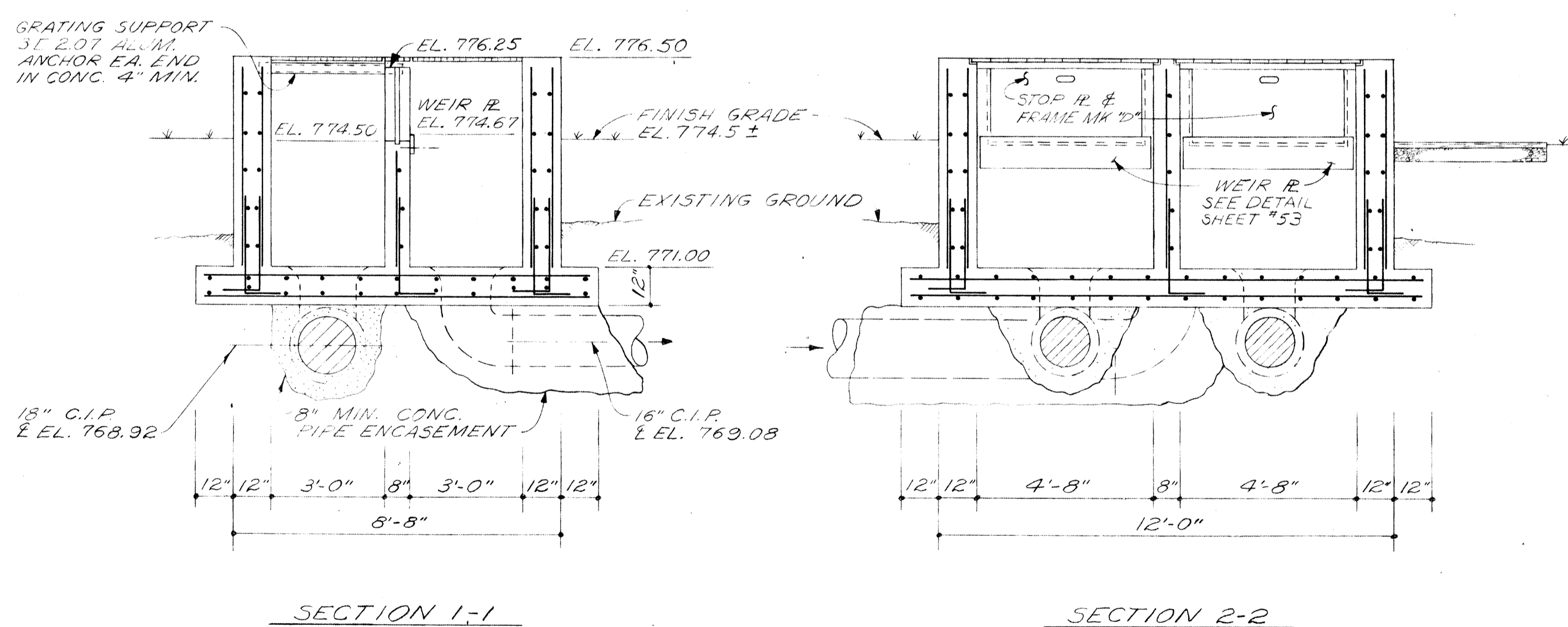
BURGESS & NIPLE, LIMITED CONSULTING ENGINEERS
COLUMBUS, OHIO

DELAWARE COUNTY, OHIO
OLENTANGY ENVIRONMENTAL CONTROL CENTER
CONCRETE & REINFORCING STEEL
INTERMEDIATE & FINAL
CLARIFIER TANKS

REVISIONS APRIL, 1975	DRAWN BY TCC TRACED BY RRP	CHECKED BY APPROVED BY
JUNE, 1973	SCALE: 3/8"=1'-0" UNLESS NOTED	SHEET 31 OF 75



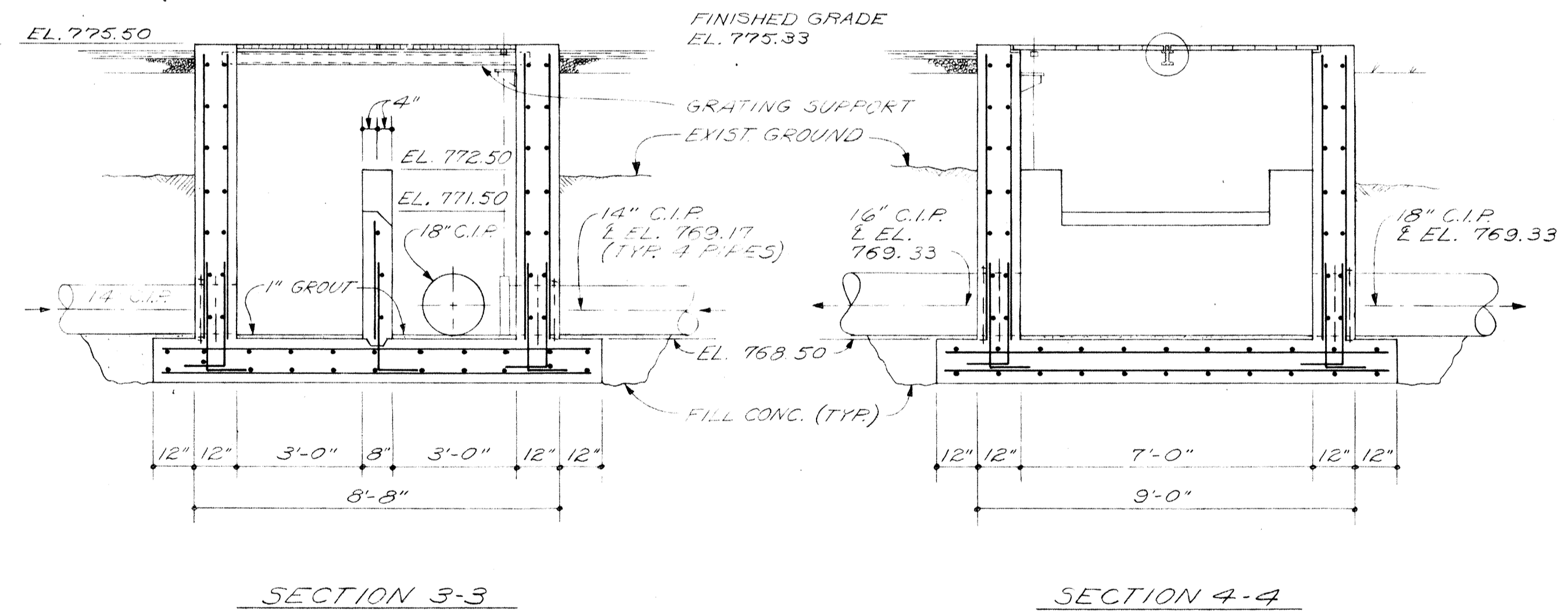
GRATING SUPPORT
SCALE: 3"=1'-0"



NOTE:
ALL REINFORCING
#5 @ 12" E.W. AS SHOWN.

INTERMEDIATE CLARIFIER SPLITTER BOX

NOTE: FINAL CLARIFIER SPLITTER BOX SIMILAR
IN CONSTRUCTION - SEE SHEET #29



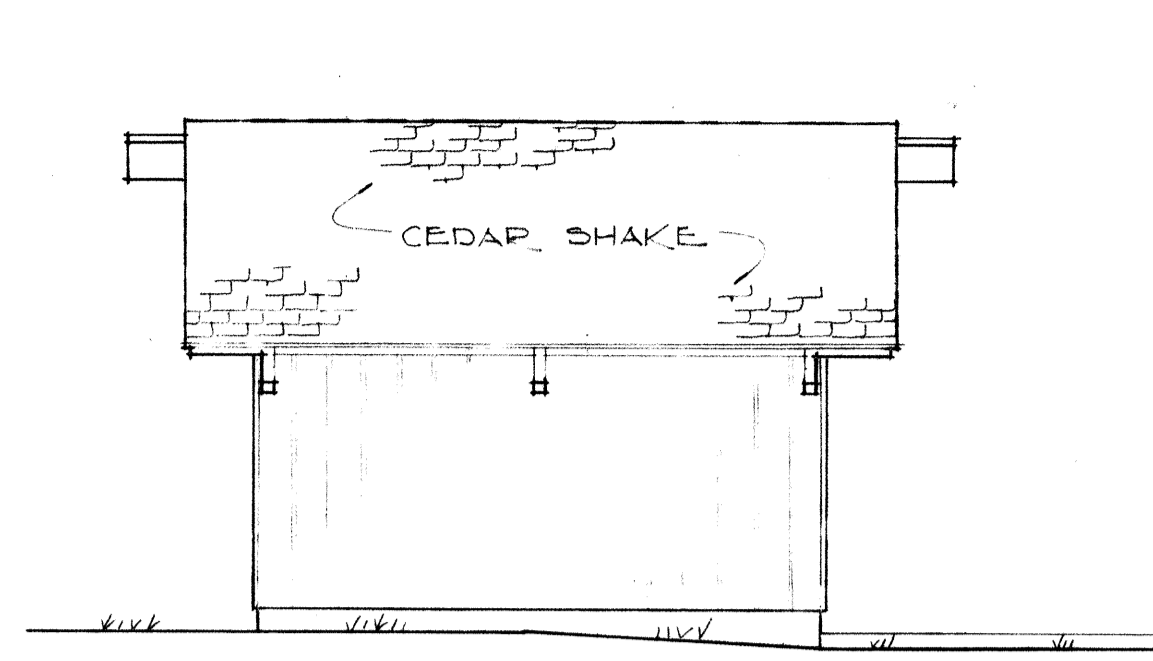
NOTE:
ALL REINFORCING
#5 @ 12" E.W. AS SHOWN.

OVERFLOW CHAMBER

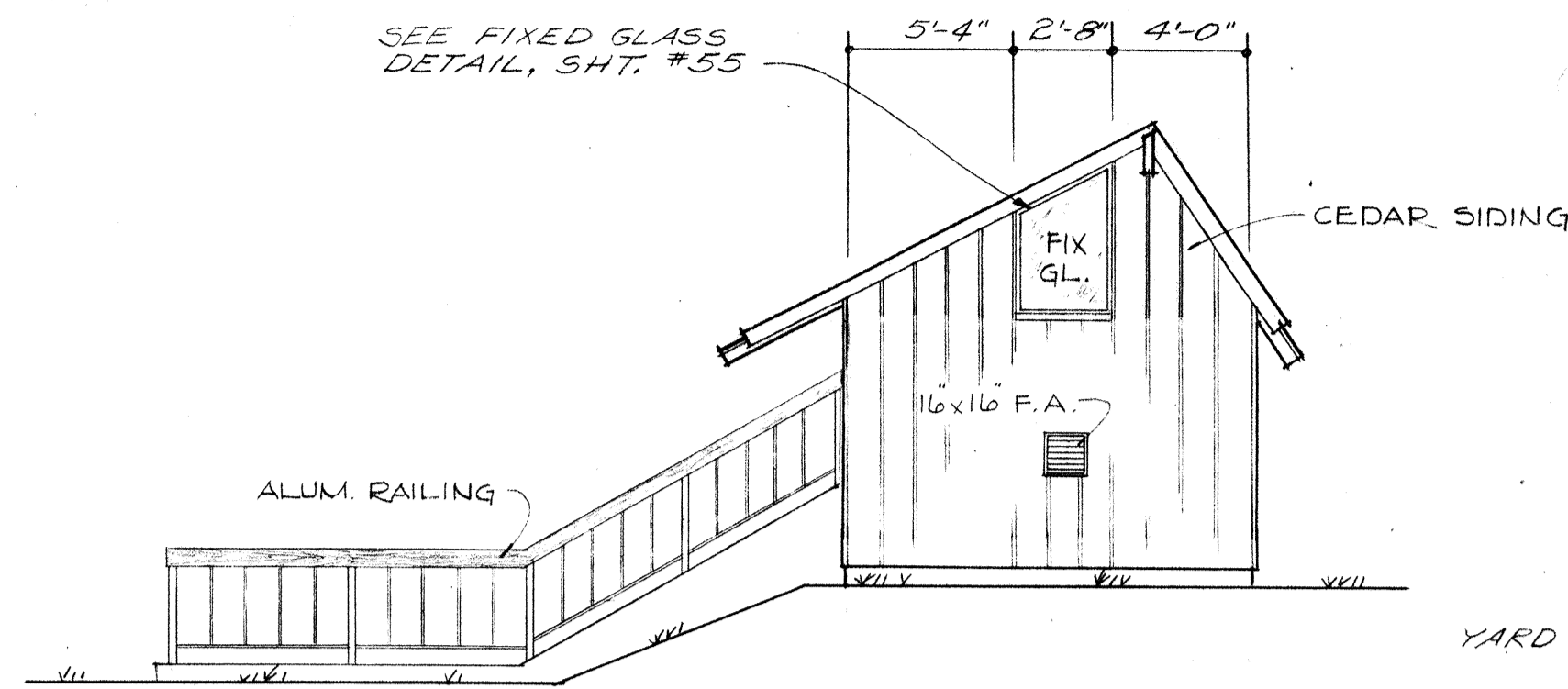
BURGESS & NIPLE, LIMITED CONSULTING ENGINEERS
COLUMBUS, OHIO

**DELAWARE COUNTY, OHIO
OLENTANGY ENVIRONMENTAL CONTROL CENTER
OVERFLOW CHAMBER &
SPLITTER BOXES**

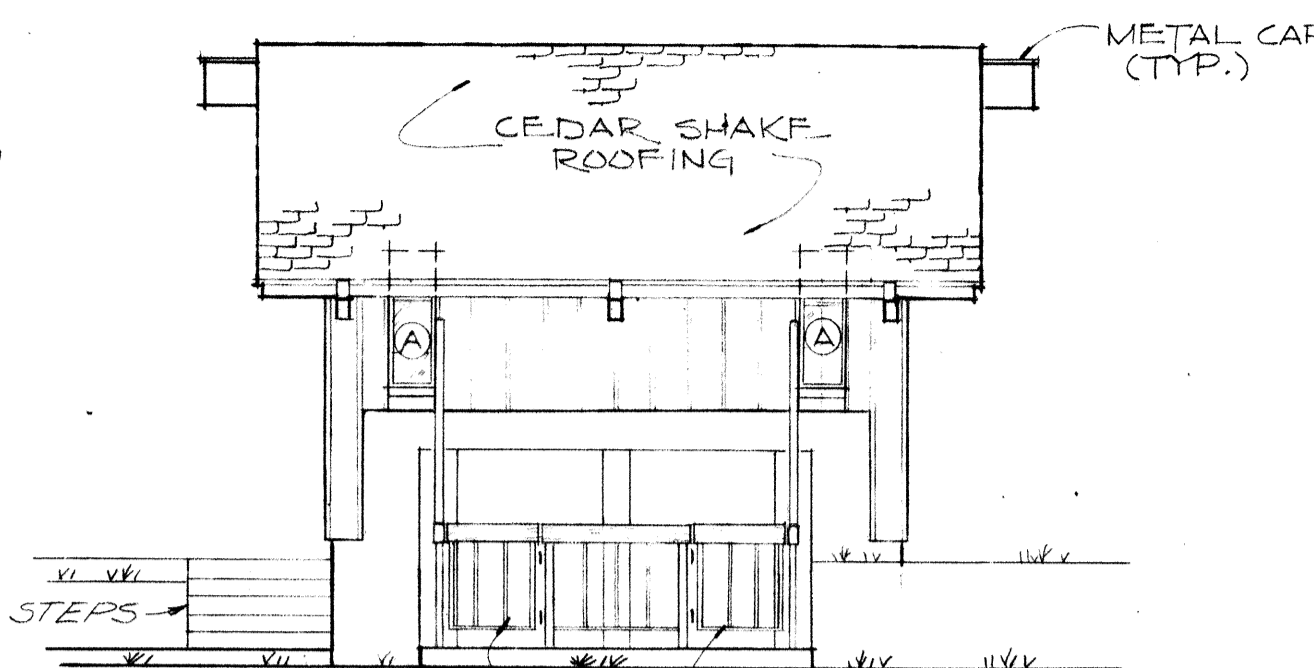
REVISIONS APRIL, 1975	DRAWN BY G.M.D. TRACED BY G.M.D.	CHECKED BY APPROVED BY
JUNE, 1973	SCALE: 3/8"=1'-0"	SHEET 32 OF 75



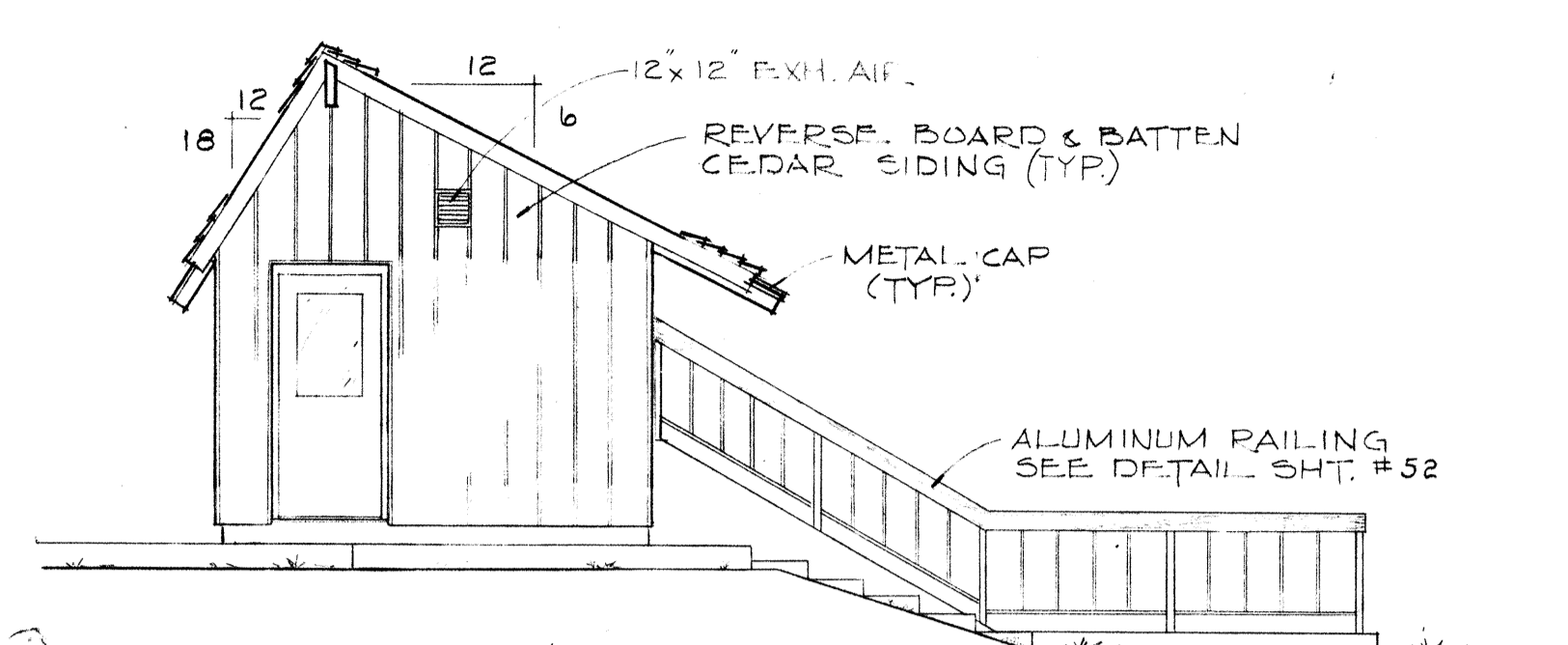
WEST



NORTH

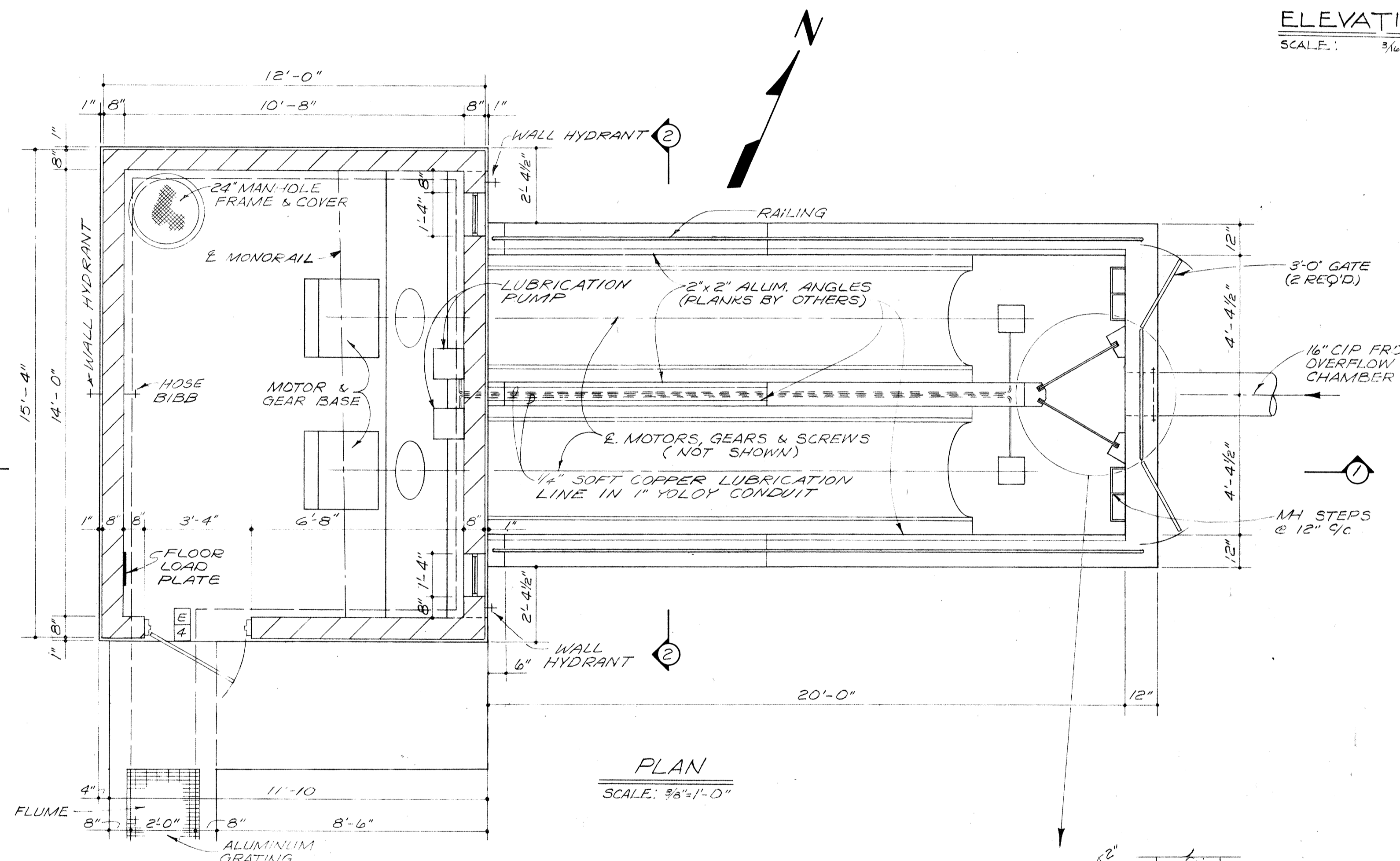


EAST

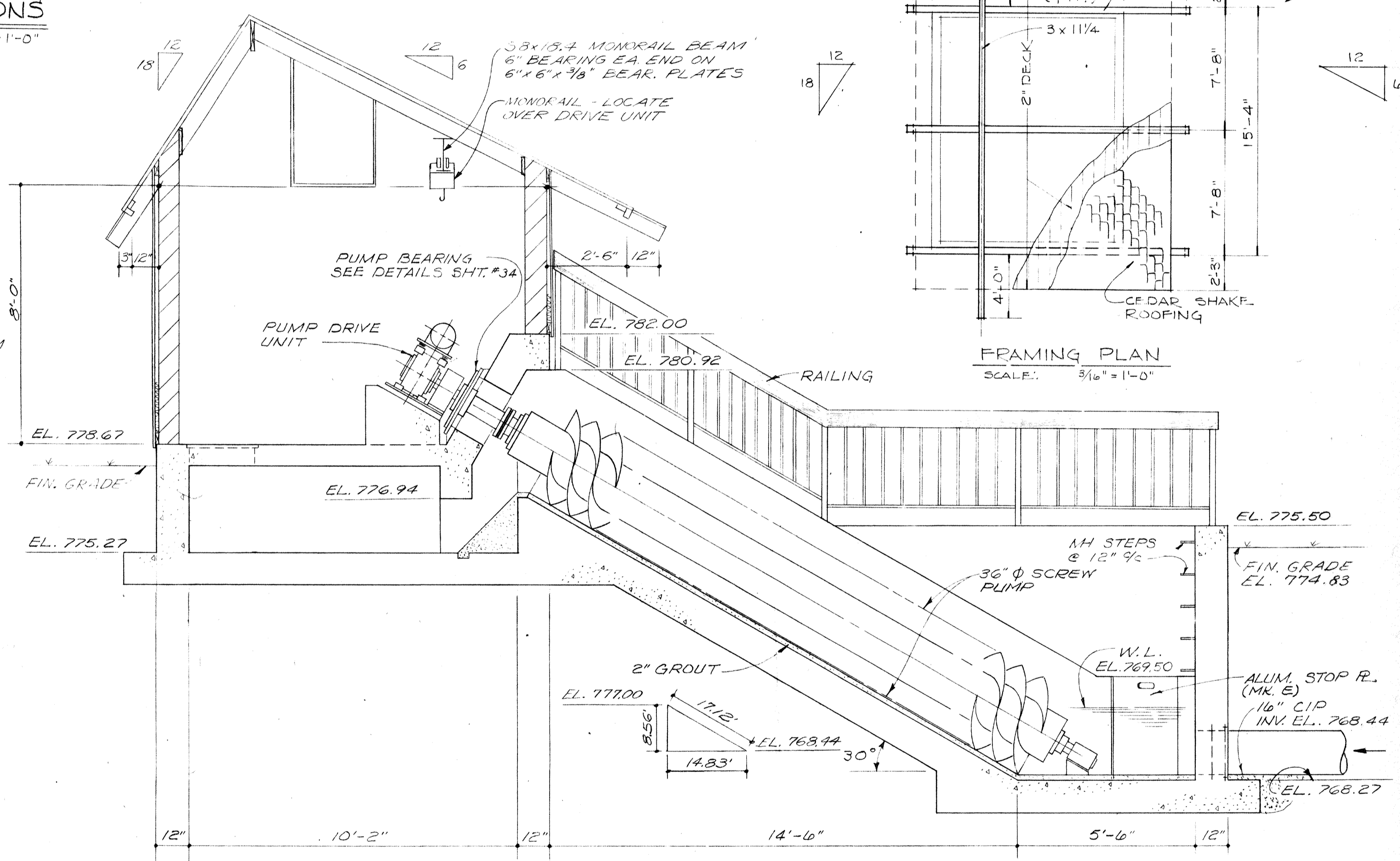


SOUTH

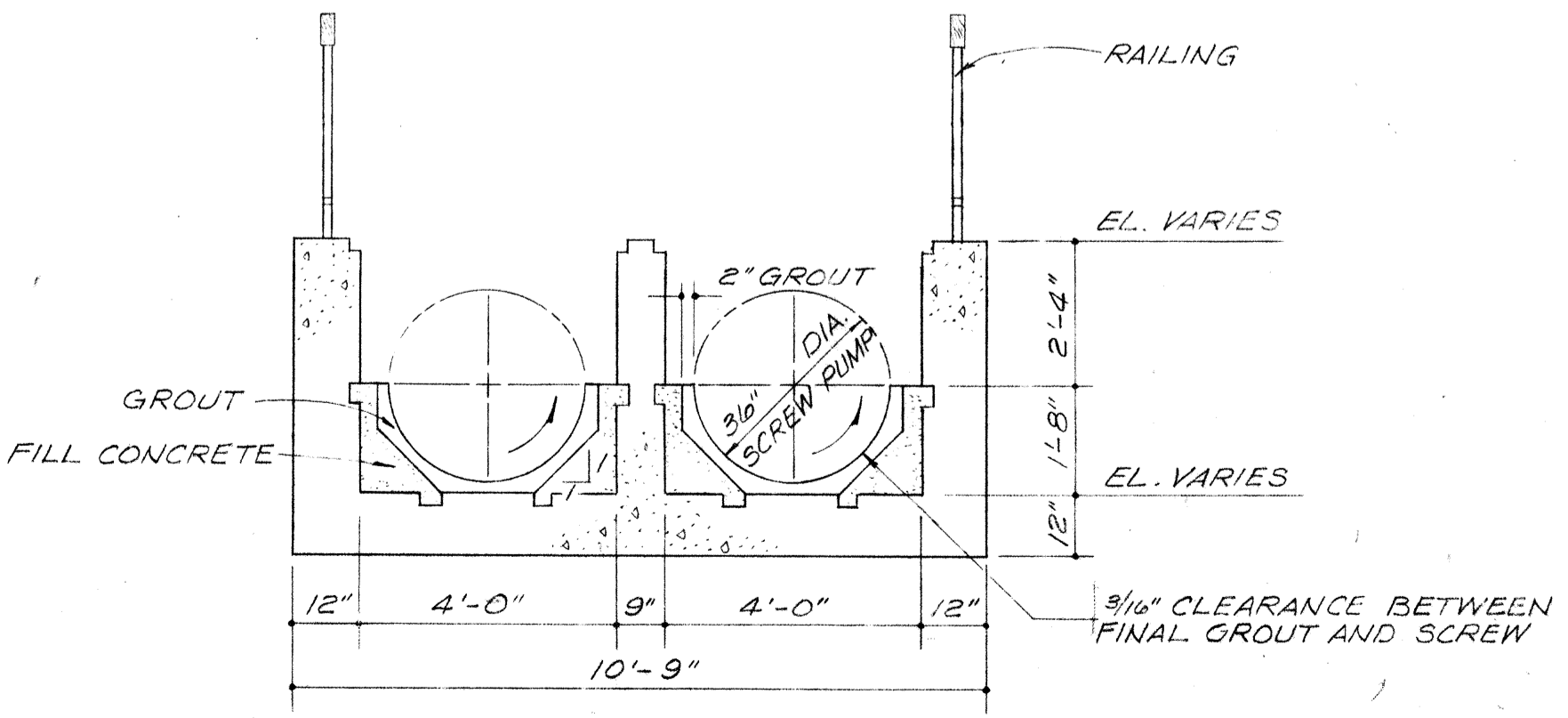
ELEVATIONS
SCALE: 3/16" = 1'-0"



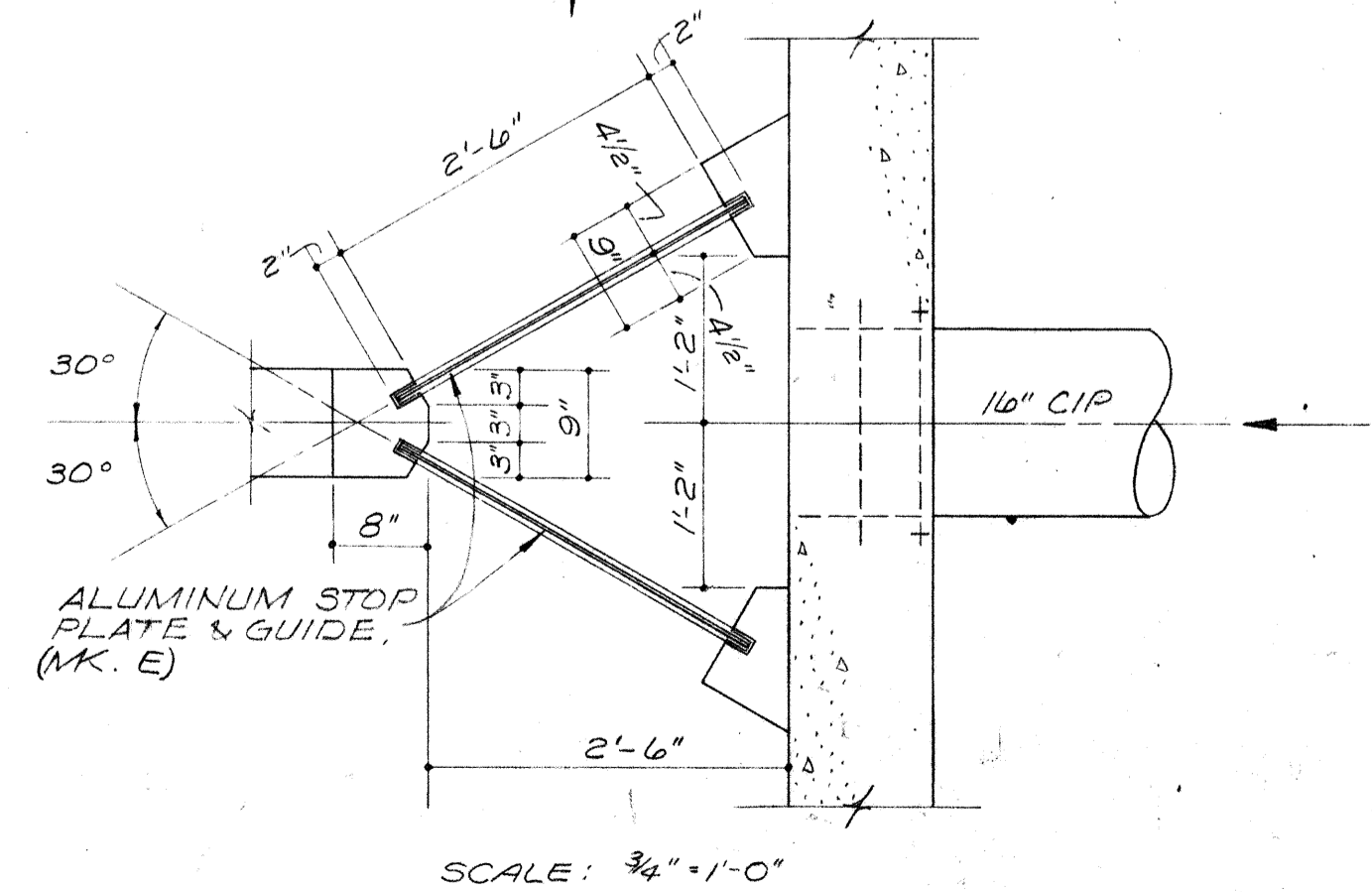
PLAN
SCALE: 3/8" = 1'-0"



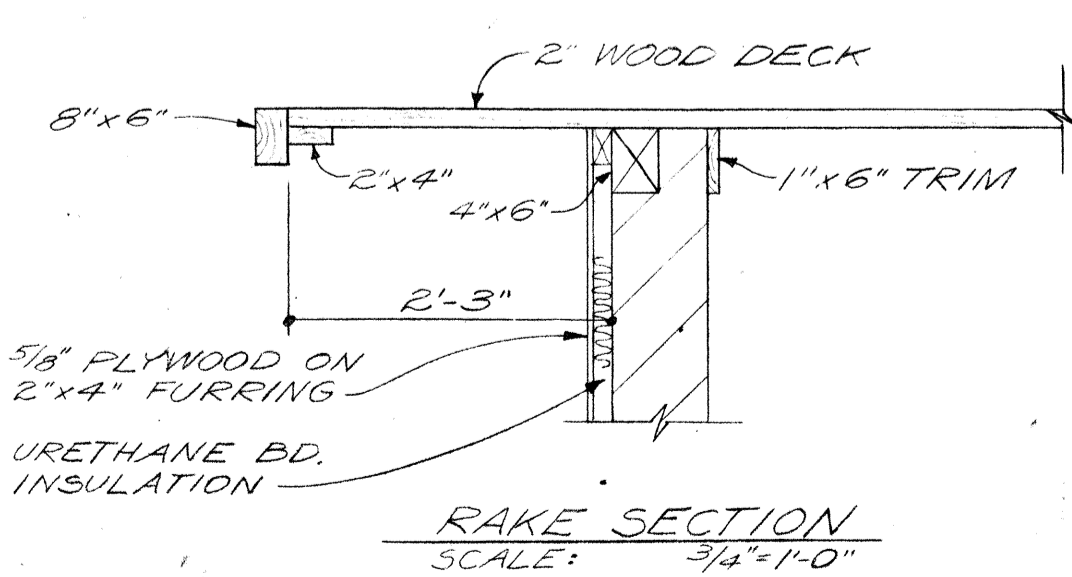
SECTION 1-1
SCALE: 3/8" = 1'-0"



SECTION 2-2
SCALE: 3/8" = 1'-0"

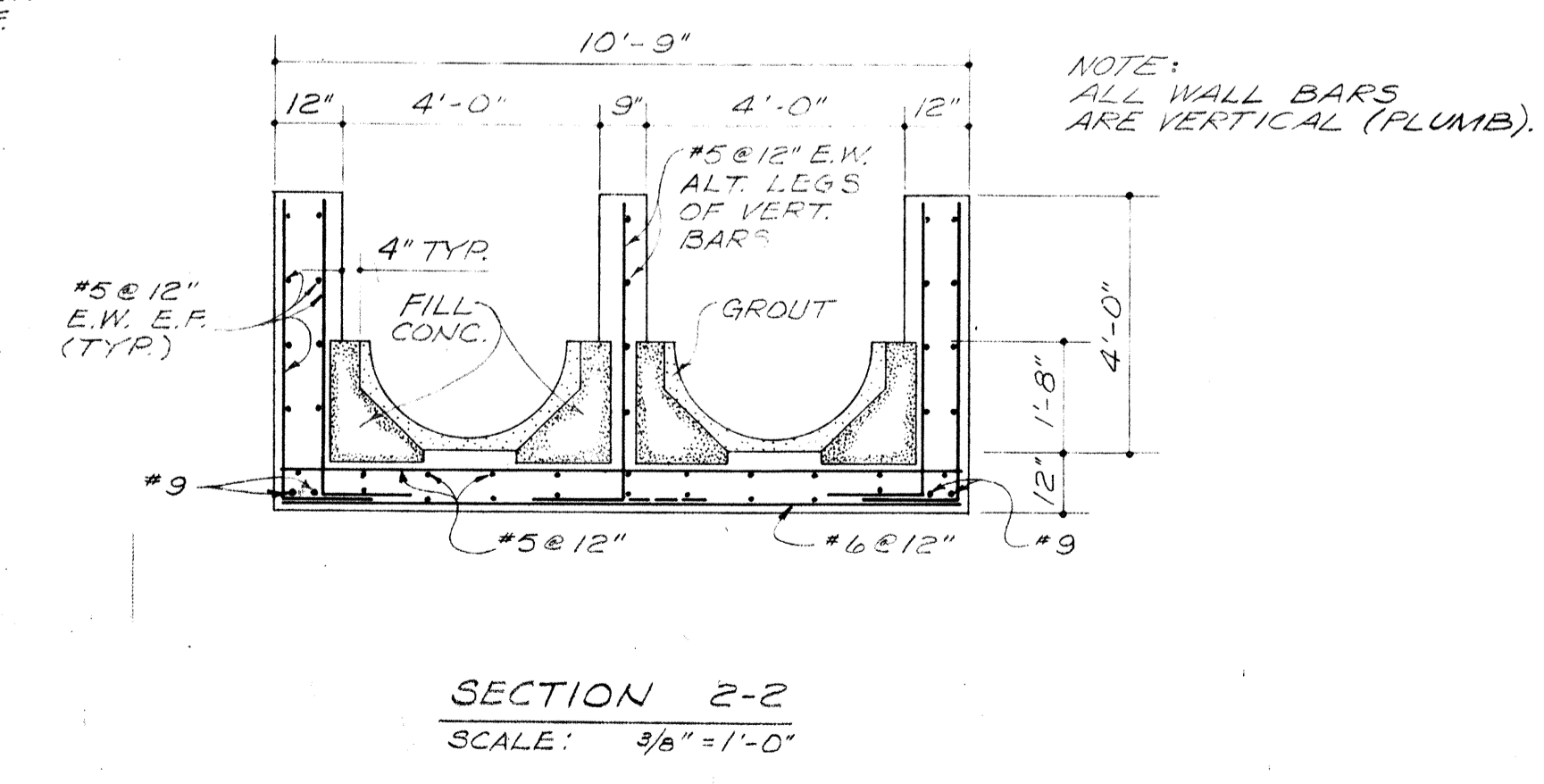
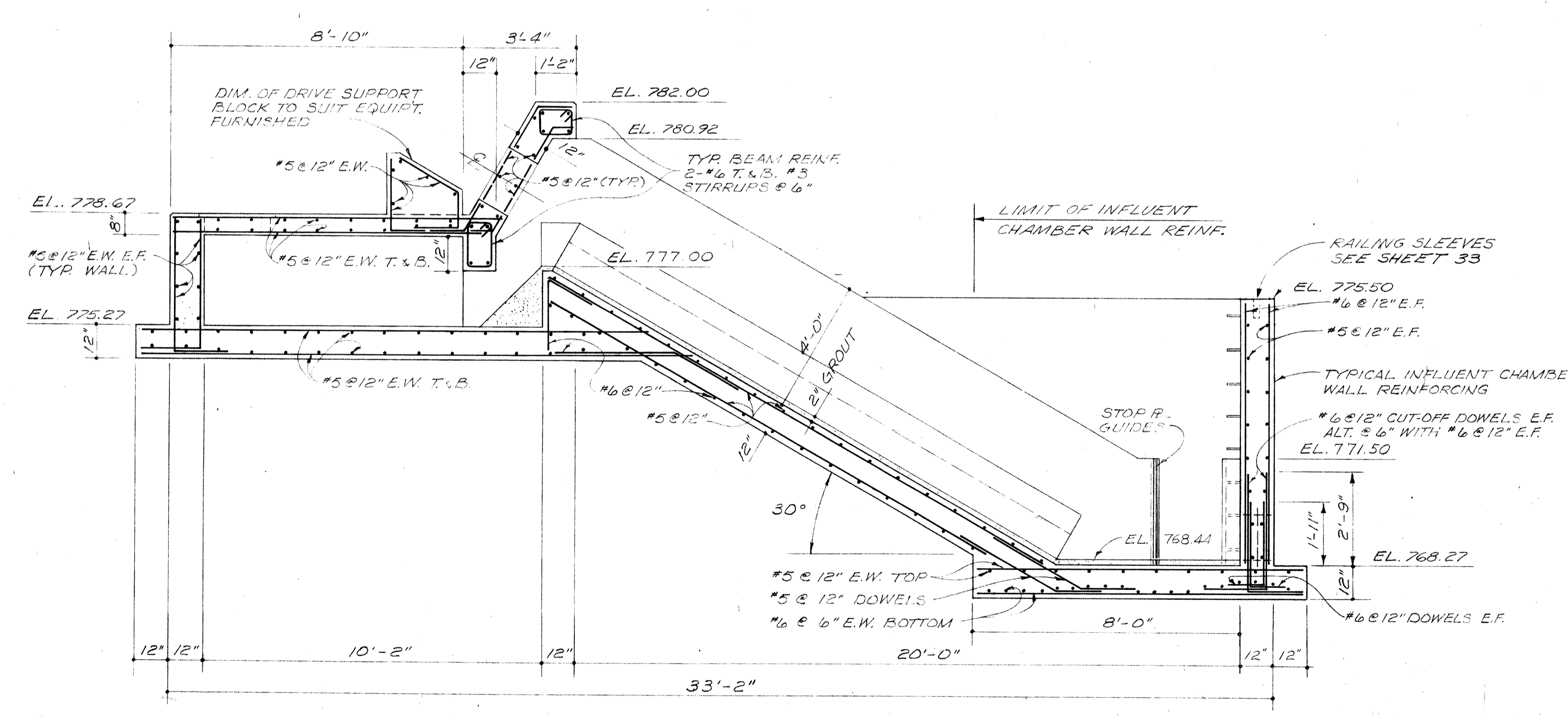
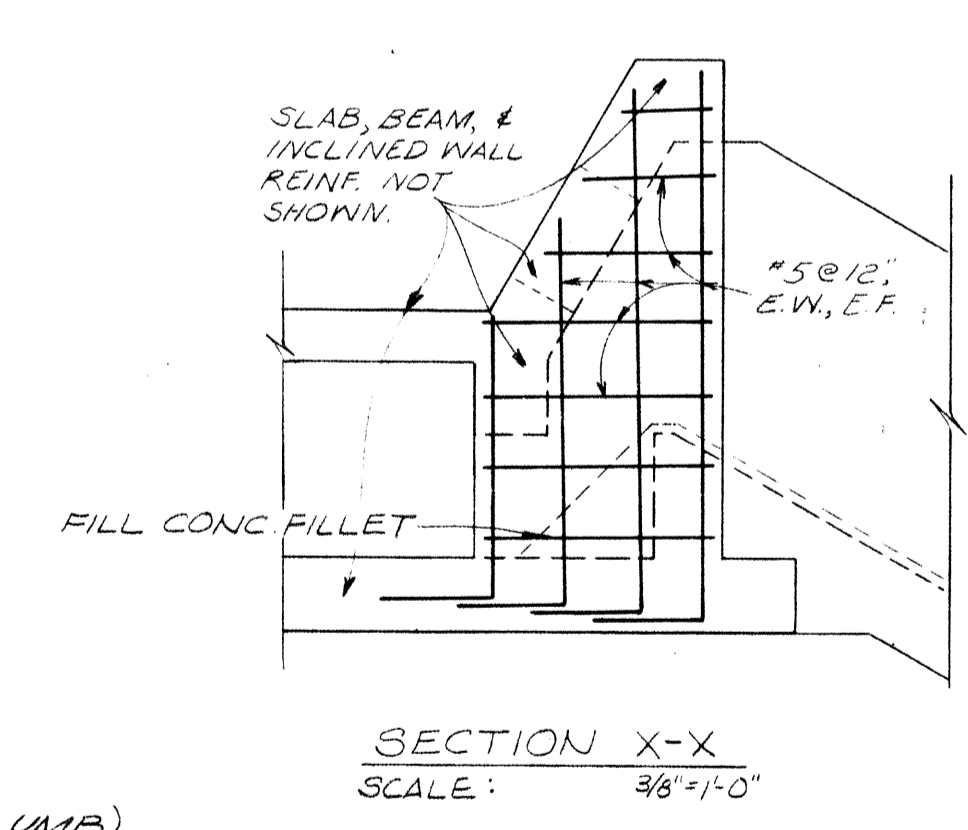
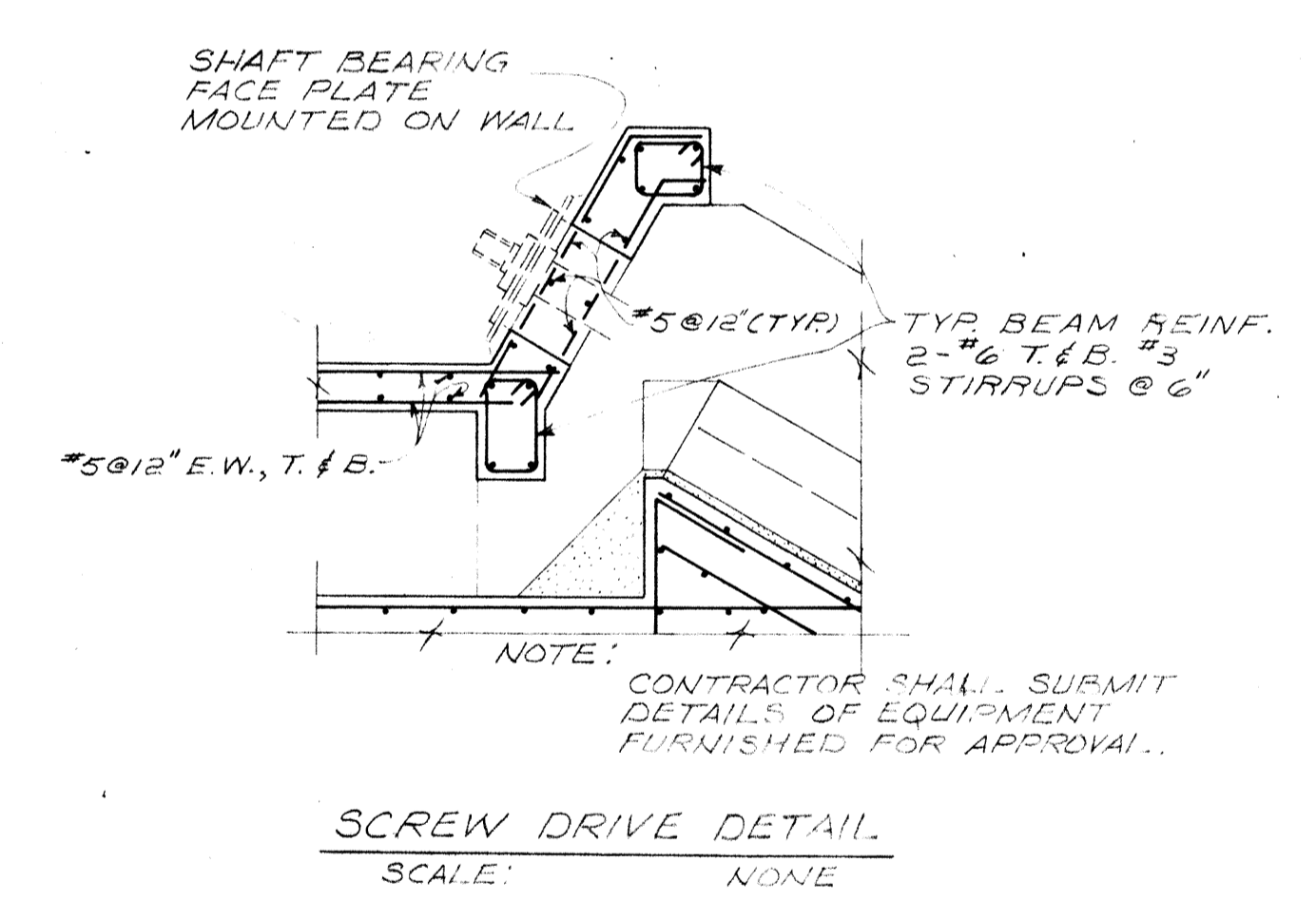
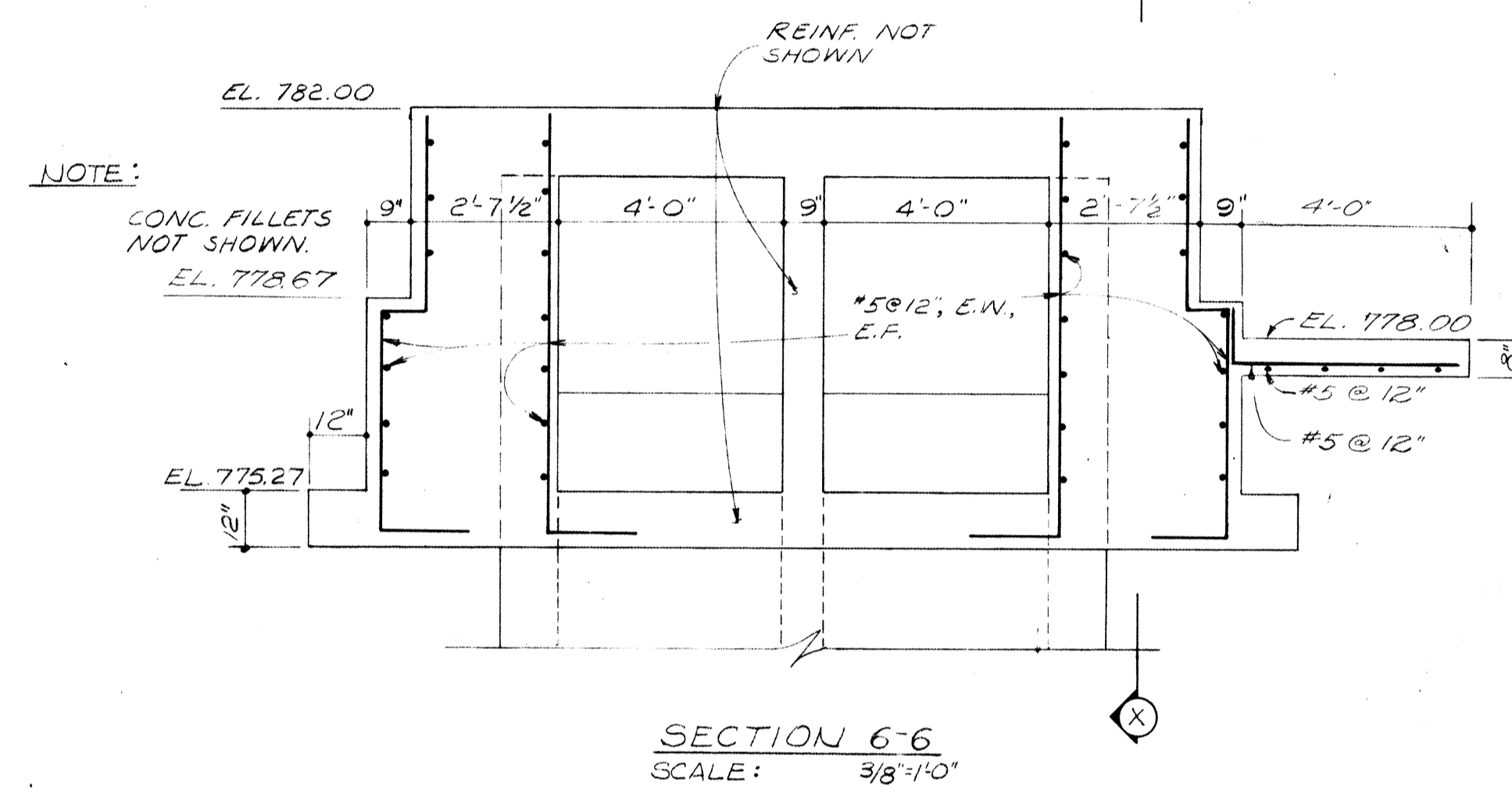
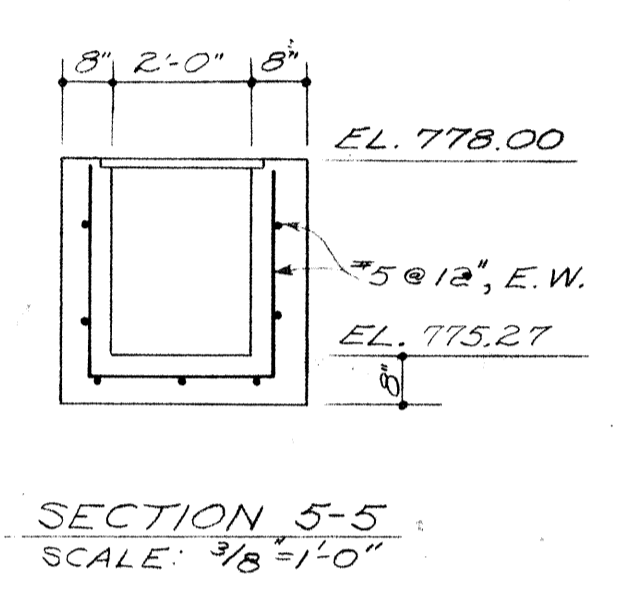
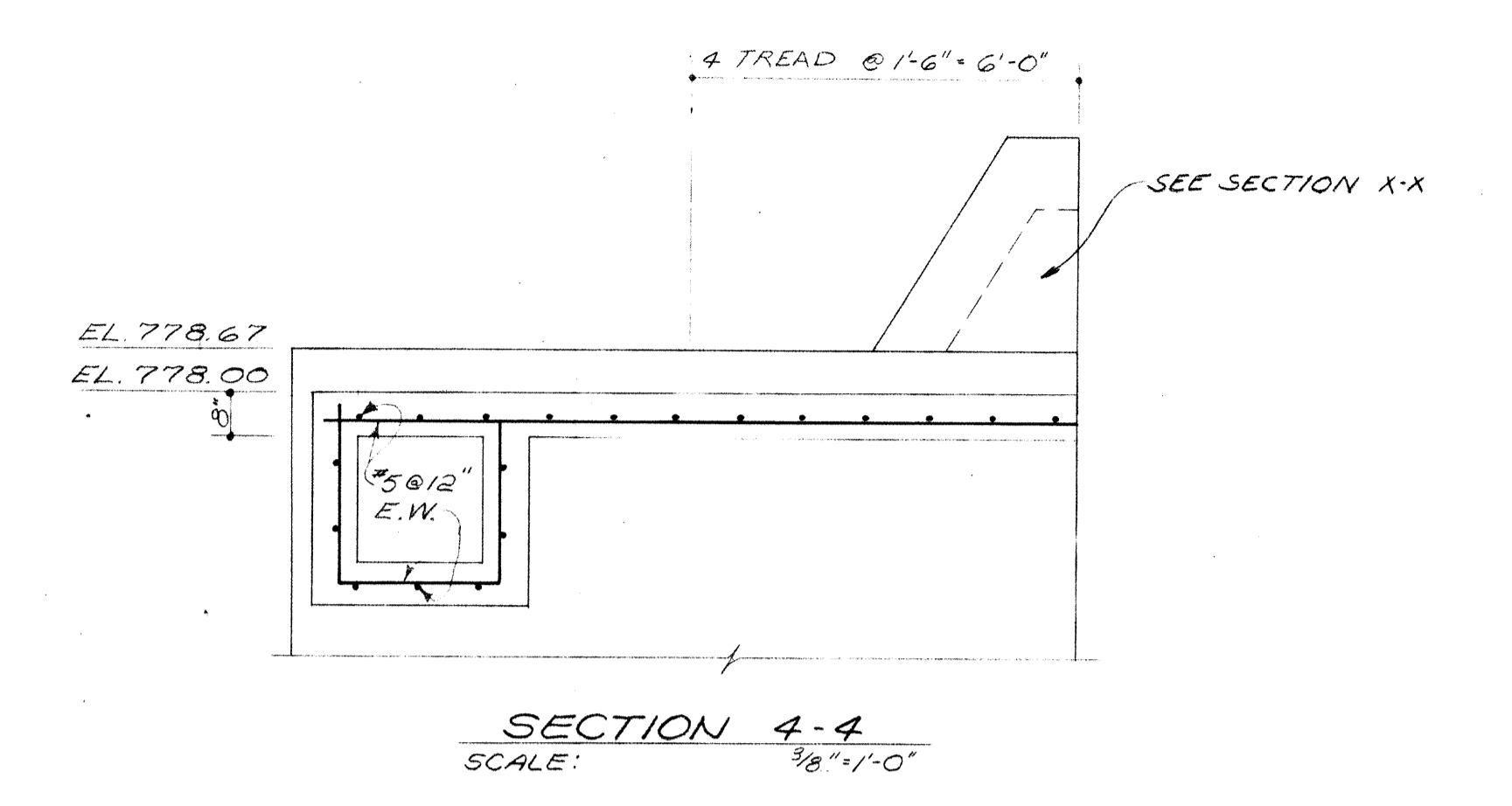
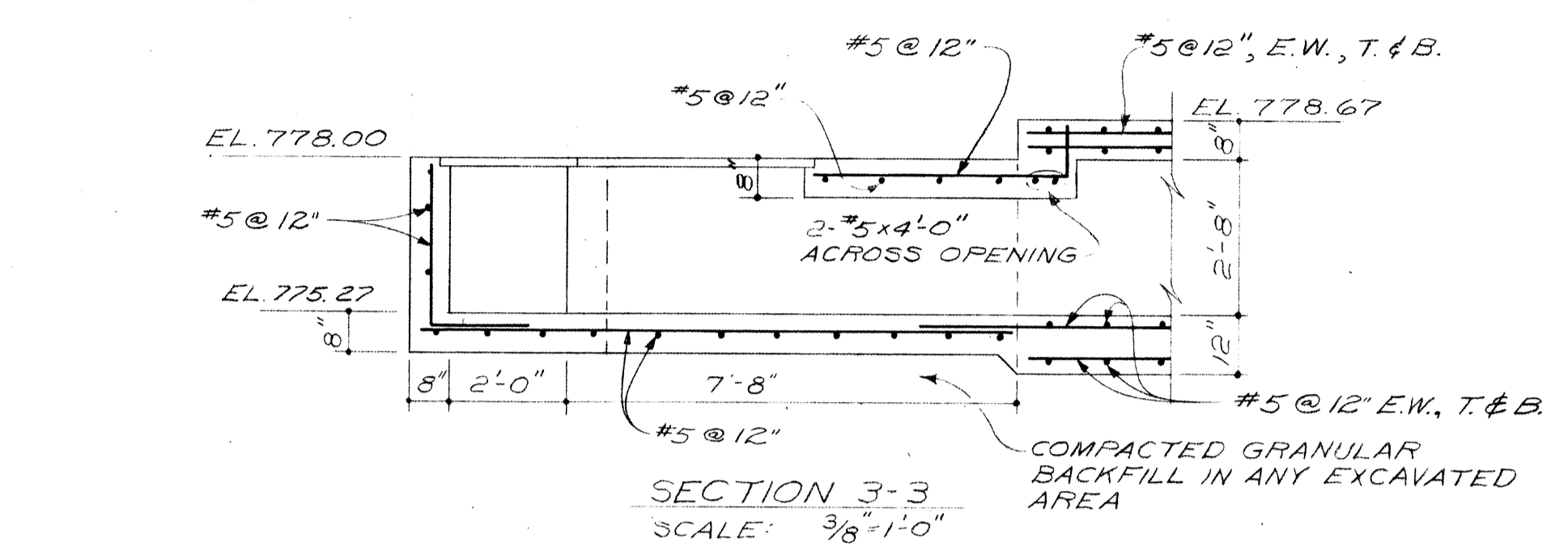
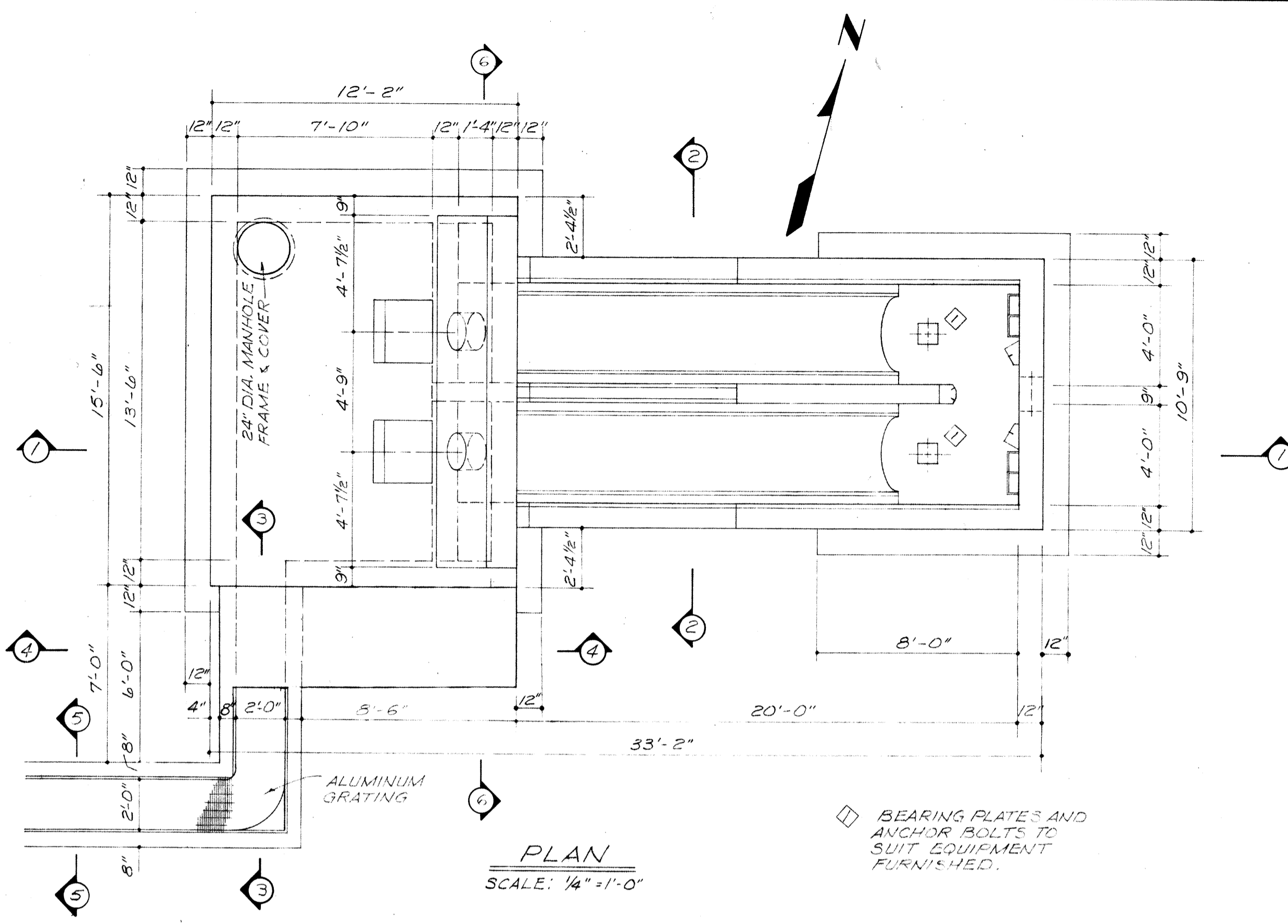


SCALE: 3/4" = 1'-0"

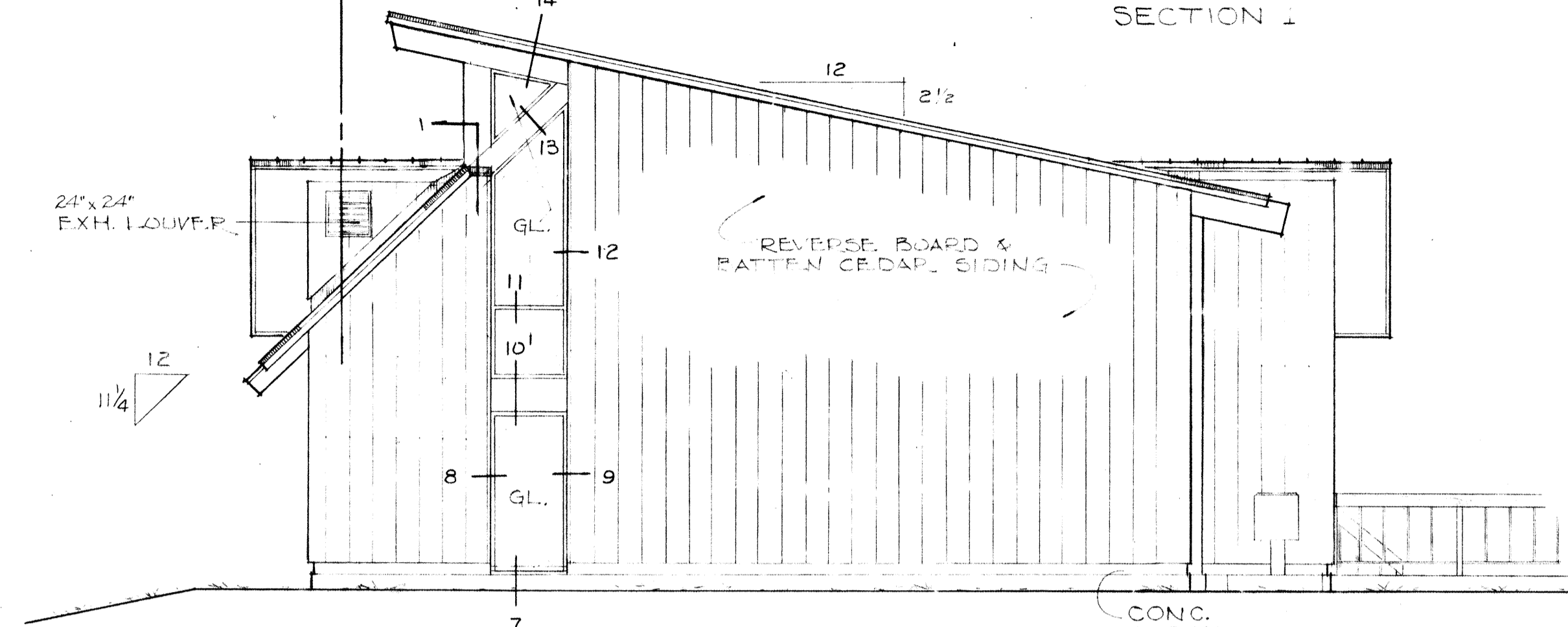
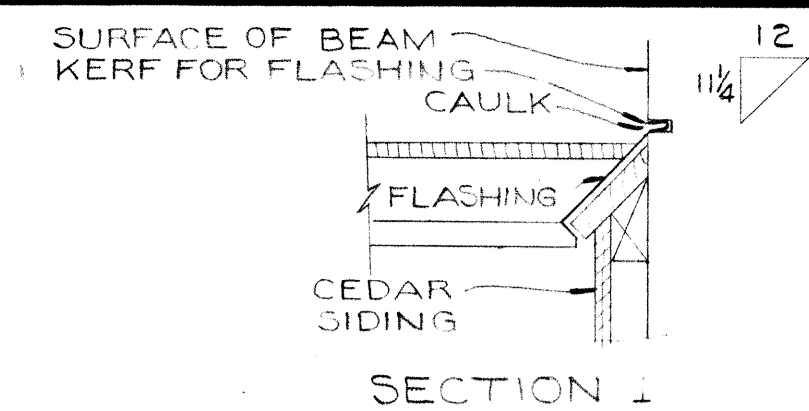


RAKE SECTION
SCALE: 3/4" = 1'-0"

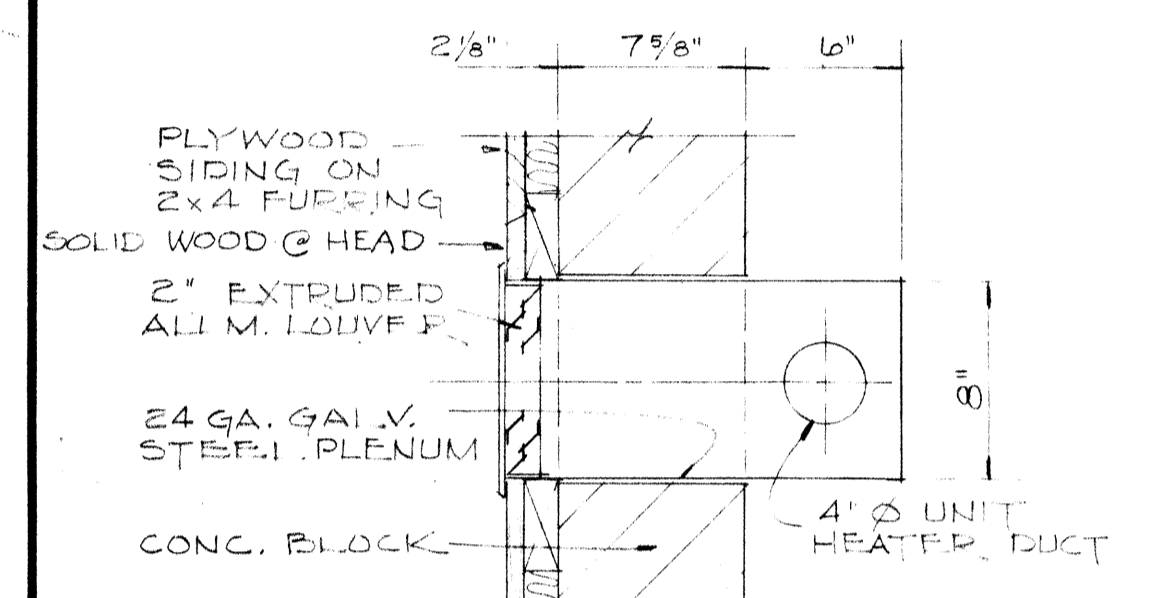
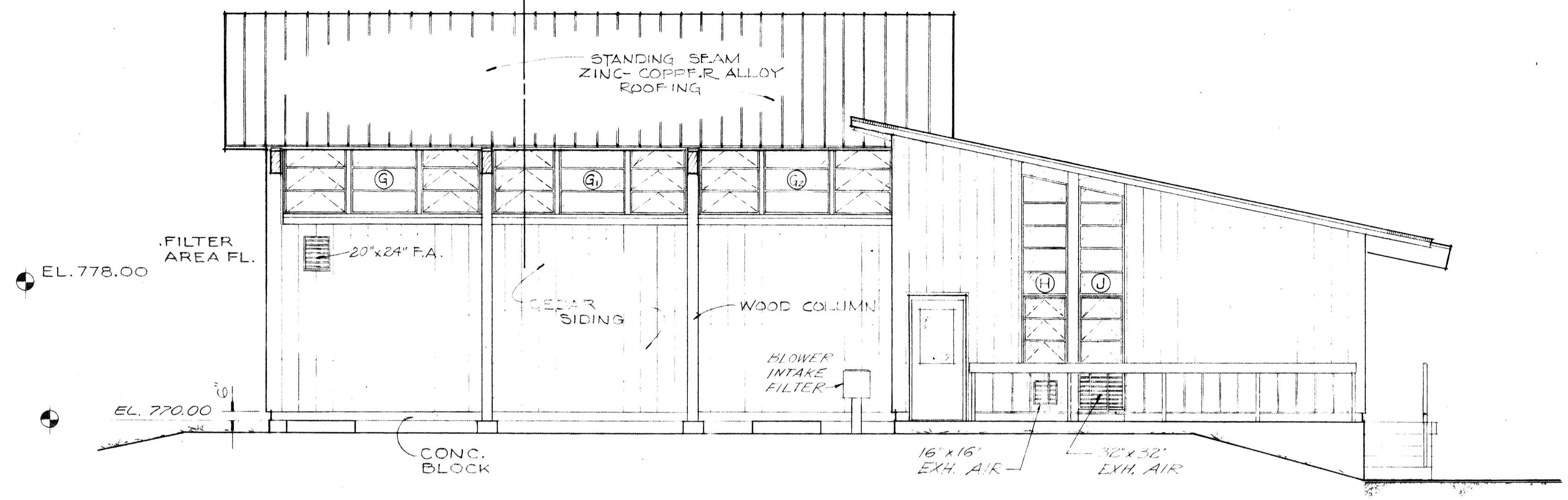
BURGESS & NIPLE, LIMITED		CONSULTING ENGINEERS
COLUMBUS, OHIO		
DELAWARE COUNTY, OHIO		
OLENTANGY ENVIRONMENTAL CONTROL CENTER		
SCREW PUMP LIFT STATION		
PLAN, SECTIONS & ELEVATIONS		
REVISIONS	DRAWN BY DEH	CHECKED BY
APRIL, 1975	TRACED BY DEH	APPROVED BY
JUNE, 1973	SCALE: AS NOTED	SHEET 33 OF 75



BURGESS & NIPLE, LIMITED		CONSULTING ENGINEERS
COLUMBUS, OHIO		
DELAWARE COUNTY, OHIO		
OLENTANGY ENVIRONMENTAL CONTROL CENTER		
CONCRETE & REINFORCING STEEL		
SCREW PUMP LIFT STATION		
REVISIONS APRIL, 1975	DRAWN BY H.S.	CHECKED BY
	TRACED BY DEH	APPROVED BY
JUNE 1973	SCALE: AS NOTED	SHEET 34 OF 75

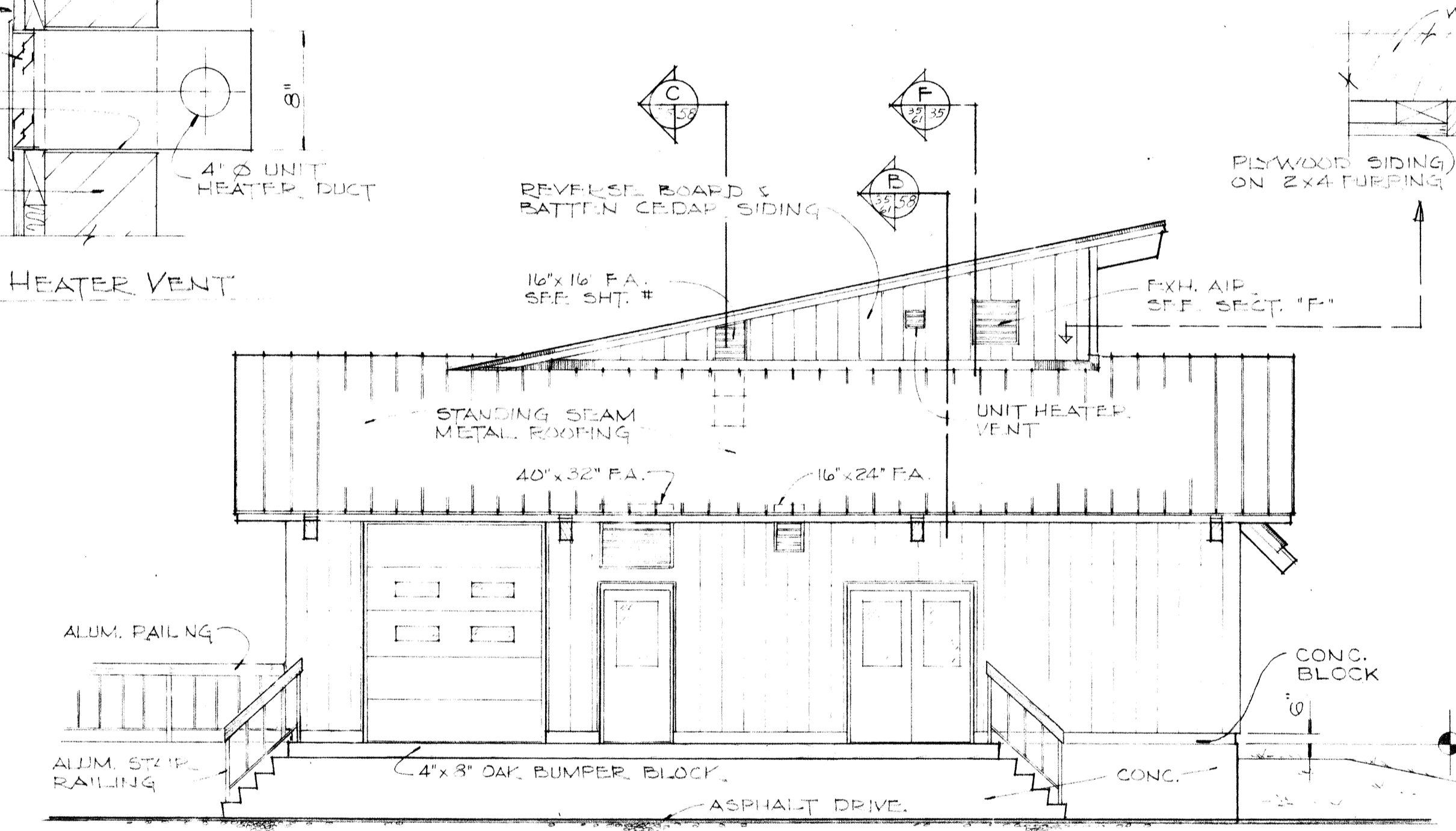


NOTE: FOR DETAILS 7-14 SEE SHT. # 55

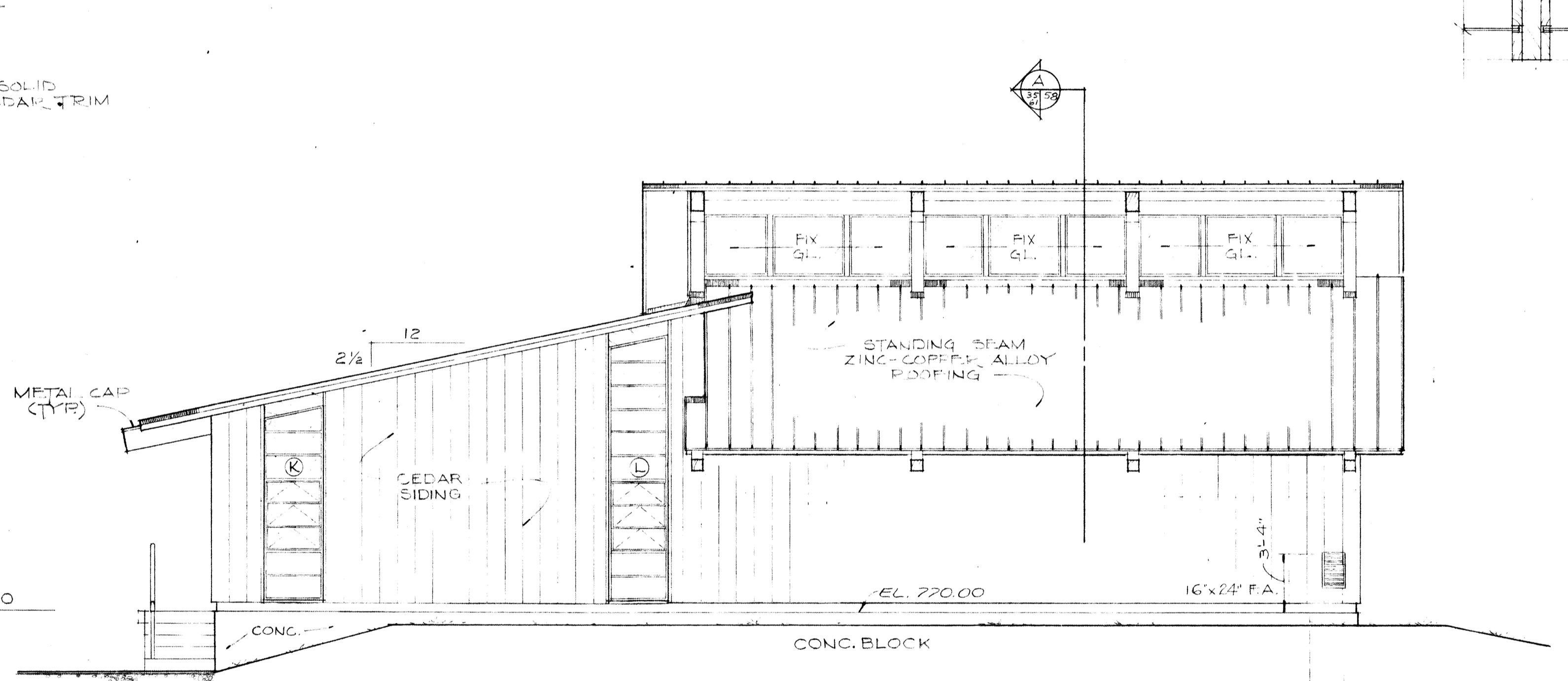


UNIT HEATER VENT

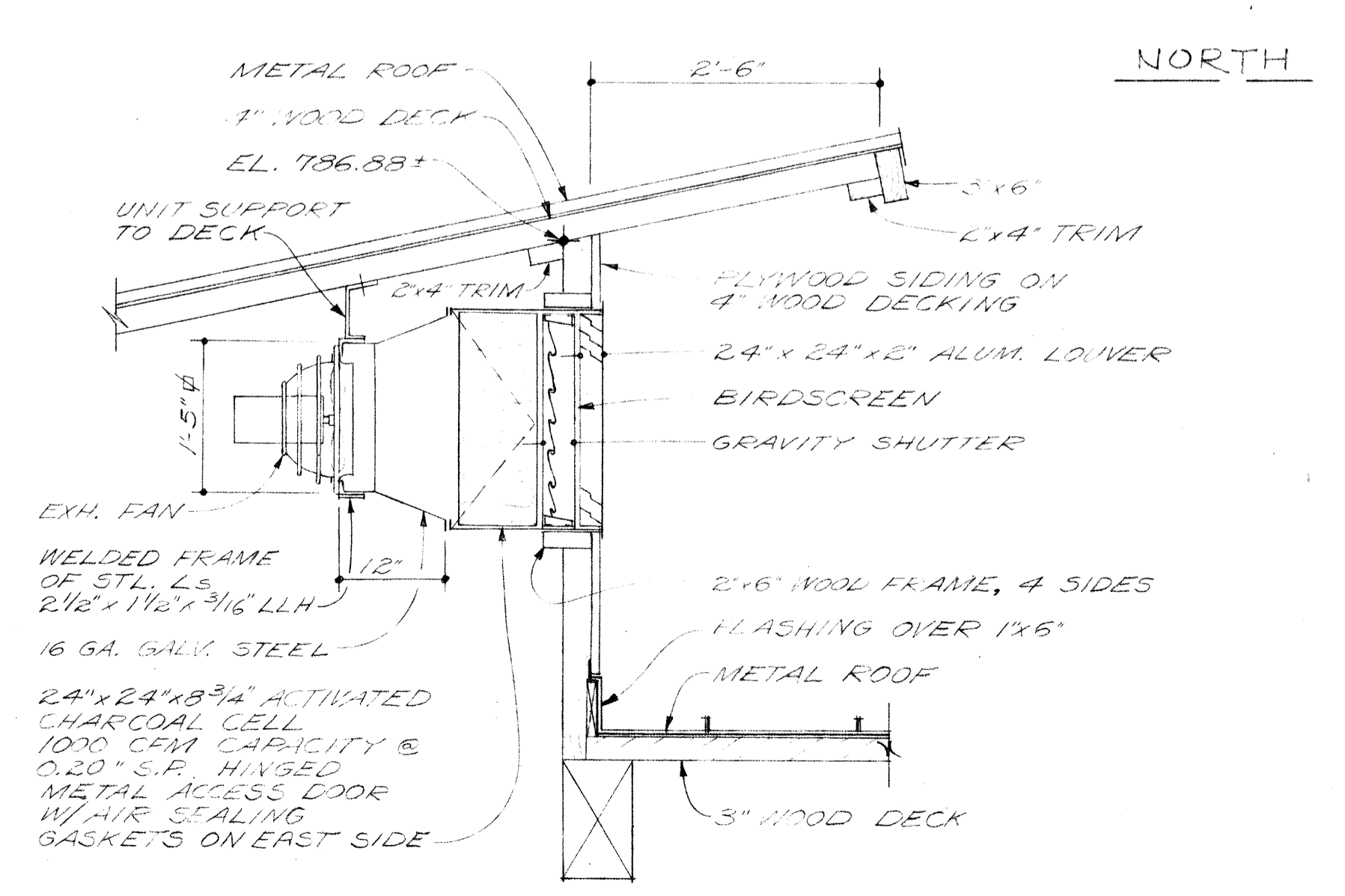
SOUTH



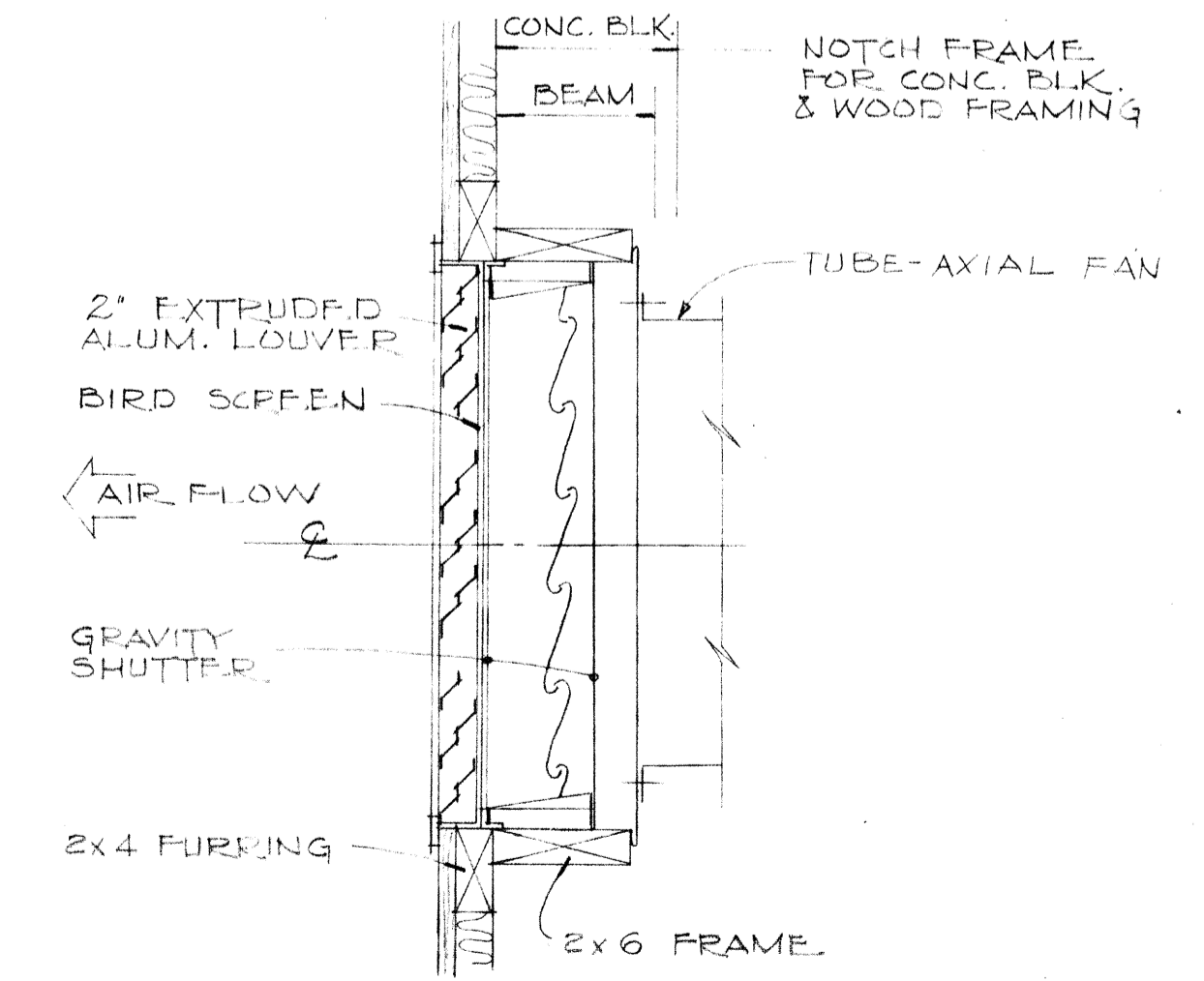
EAST



NORTH

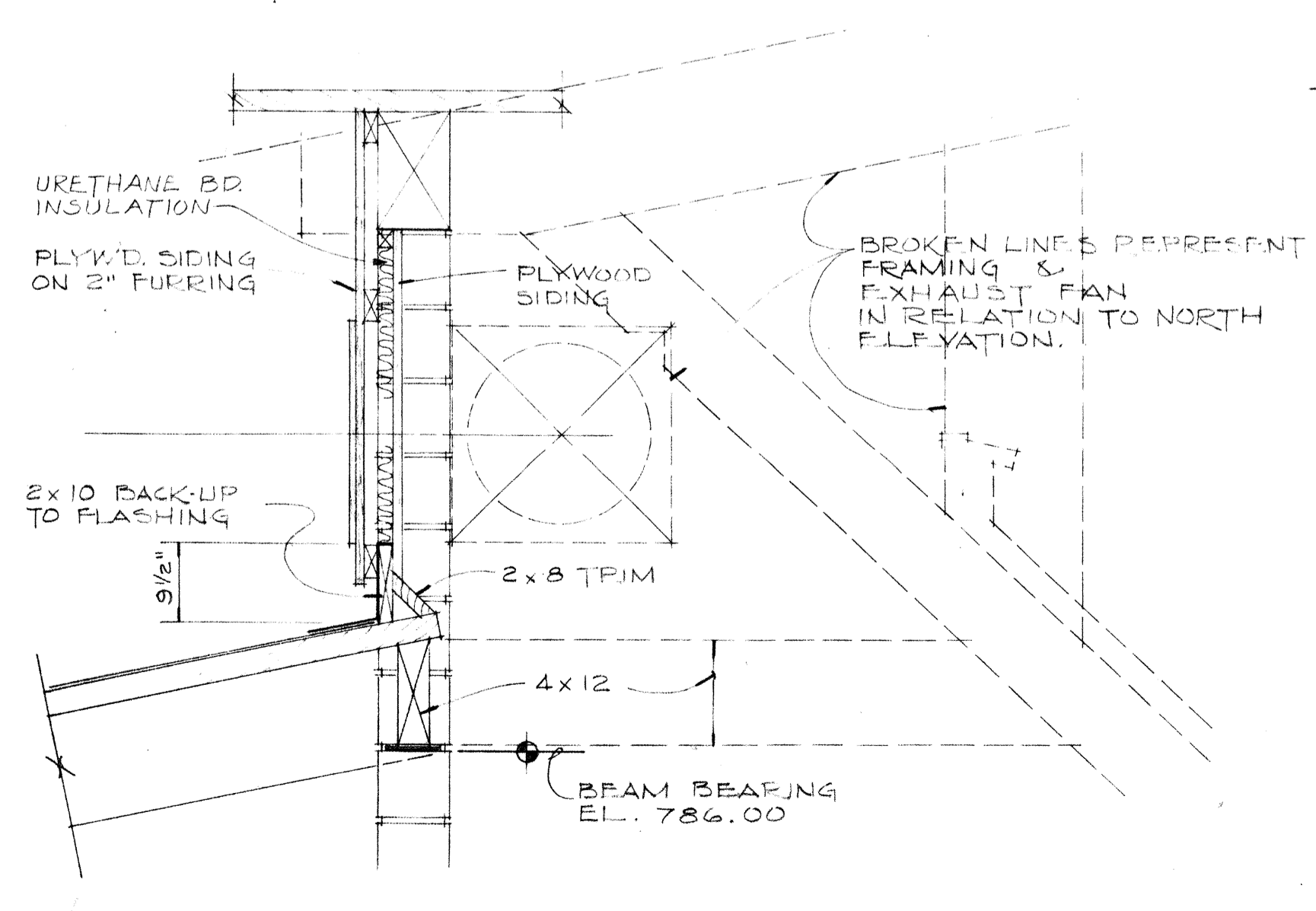


SECTION SCALE: 3/4\"/>



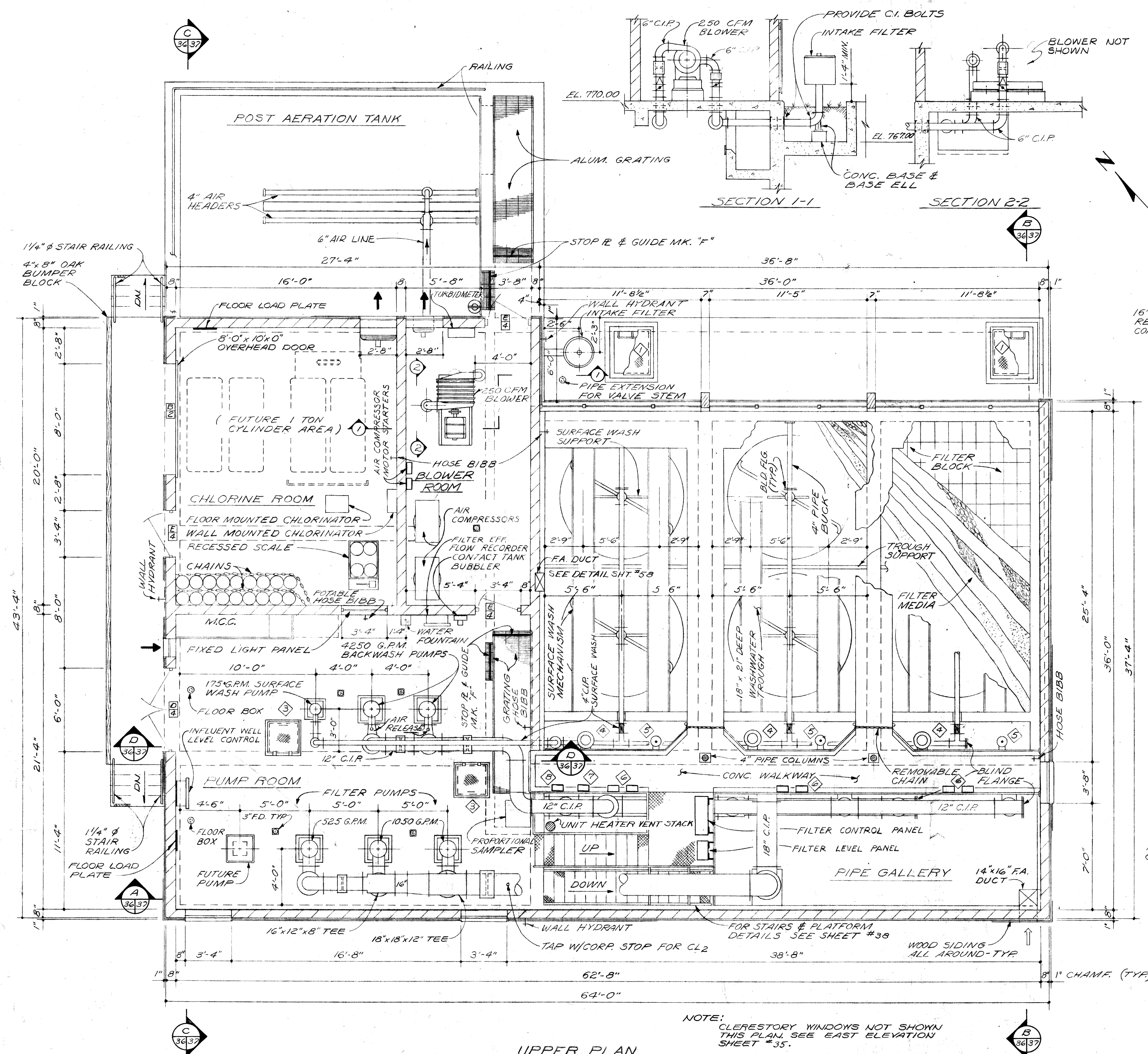
DETAIL - EXH. FAN @ SECTION F SCALE: 1/2\"/>

WEST



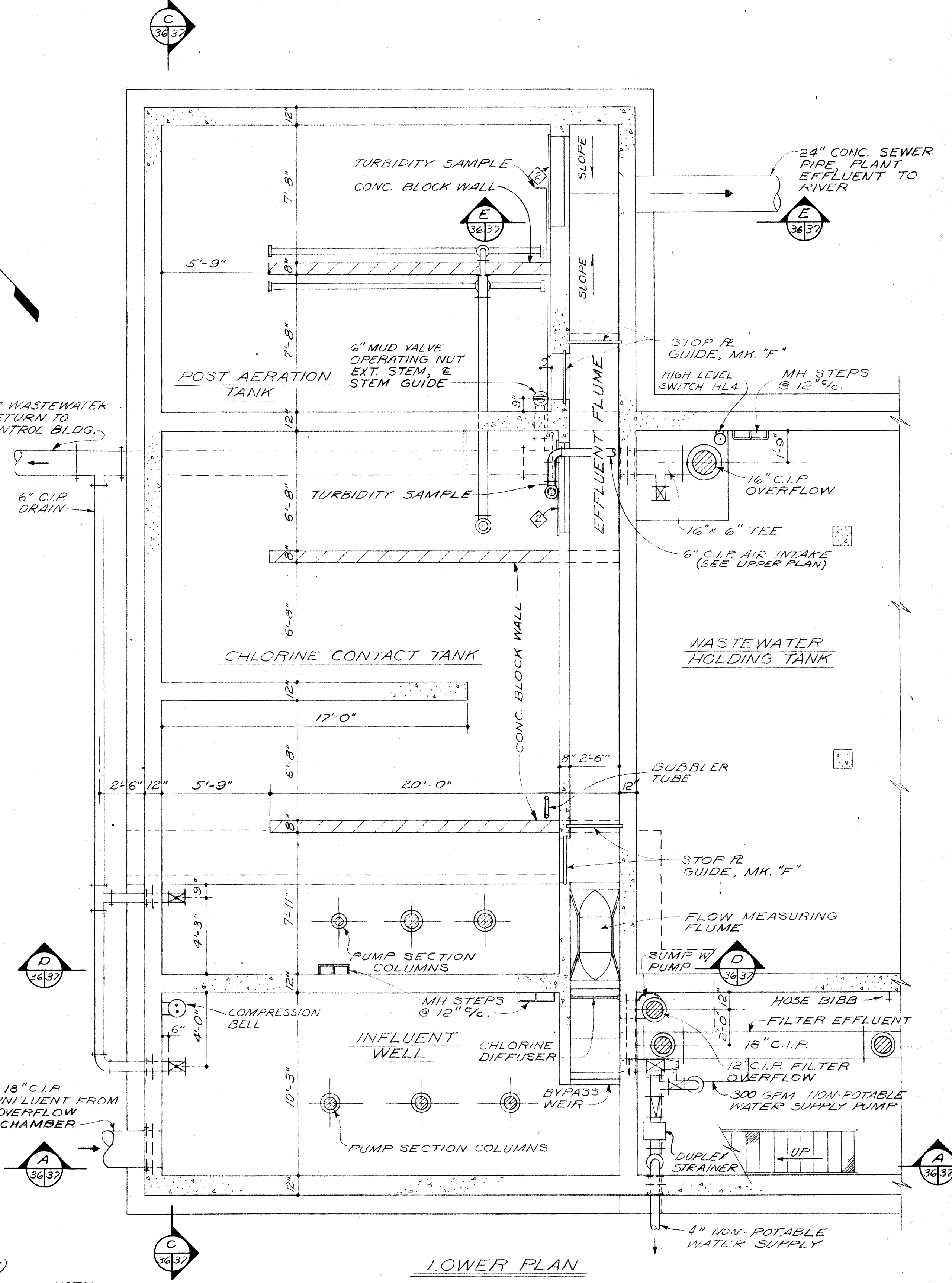
SECTION SCALE: 3/4\"/>

BURGESS & NIPLE, LIMITED		CONSULTING ENGINEERS
COLUMBUS, OHIO		
DELAWARE COUNTY, OHIO		
OLENTANGY ENVIRONMENTAL CONTROL CENTER		
TERTIARY BUILDING ELEVATIONS		
REVISIONS	DRAWN BY WJN	CHECKED BY
APRIL, 1975	TRACED BY DEH	APPROVED BY
JUNE, 1973	SCALE: 3/16\"/>	



NOTE:
CLERESTORY WINDOWS NOT SHOWN
THIS PLAN. SEE EAST ELEVATION
SHEET #35.

UPPER PLAN



NOTE:
PIPE HANGERS ARE NOT SHOWN. HANGERS SHALL BE
ADJUSTABLE WROUGHT IRON, CLEVIS TYPE, GRINNEL 260;
ROSS-WILLOUGHBY 97 OR EQUAL. PROVIDE HANGERS AT
ALL FITTINGS AND MAXIMUM OF 3'-0" ON STRAIGHT RUNS.
DO NOT HANG PIPING OR OTHER LOADS FROM DECKING
OR ROOF BEAMS UNLESS SPECIFICALLY SHOWN OTHERWISE.

LOWER PLAN

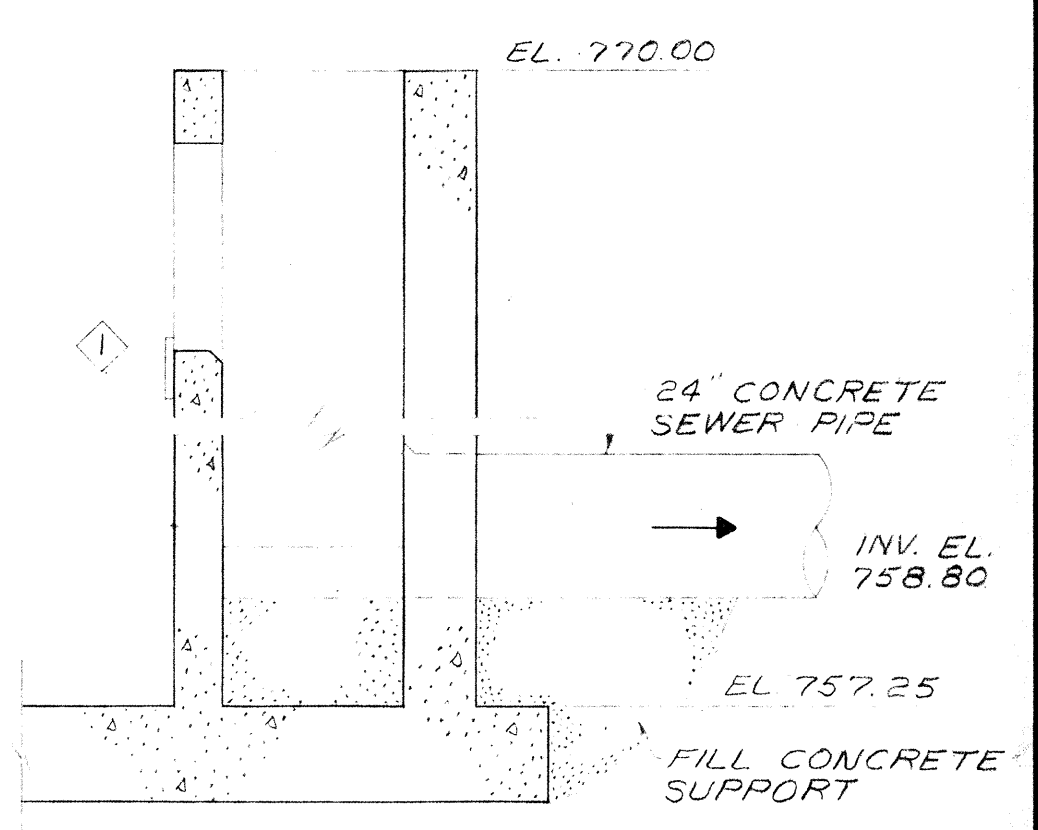
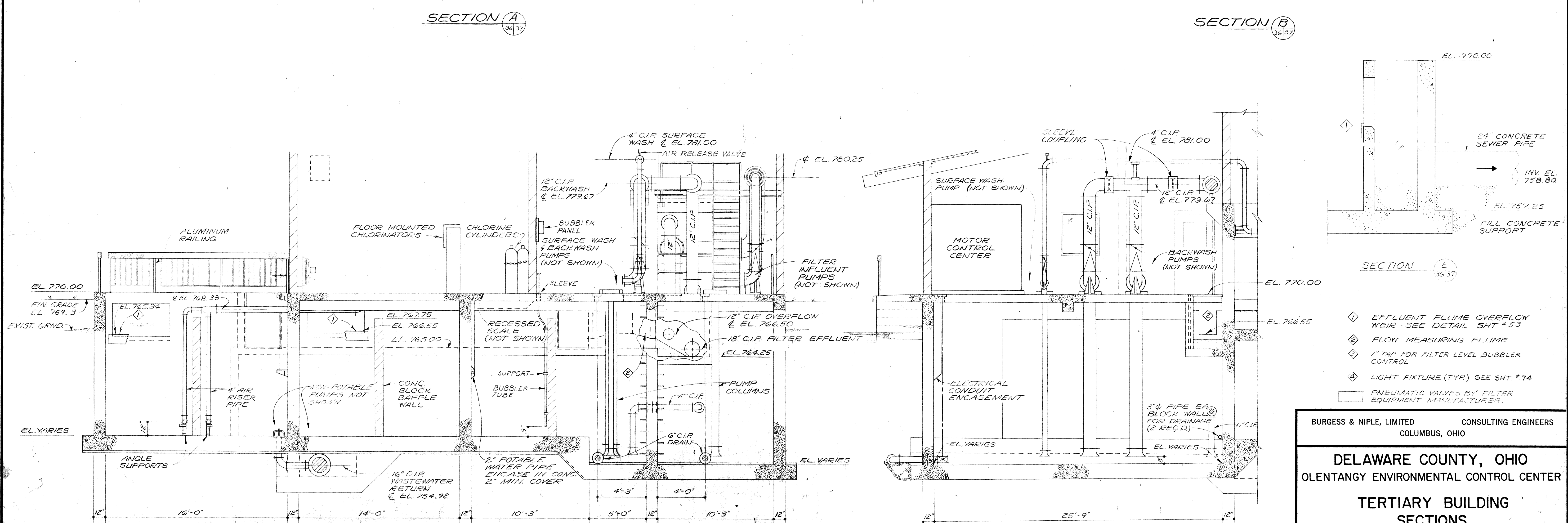
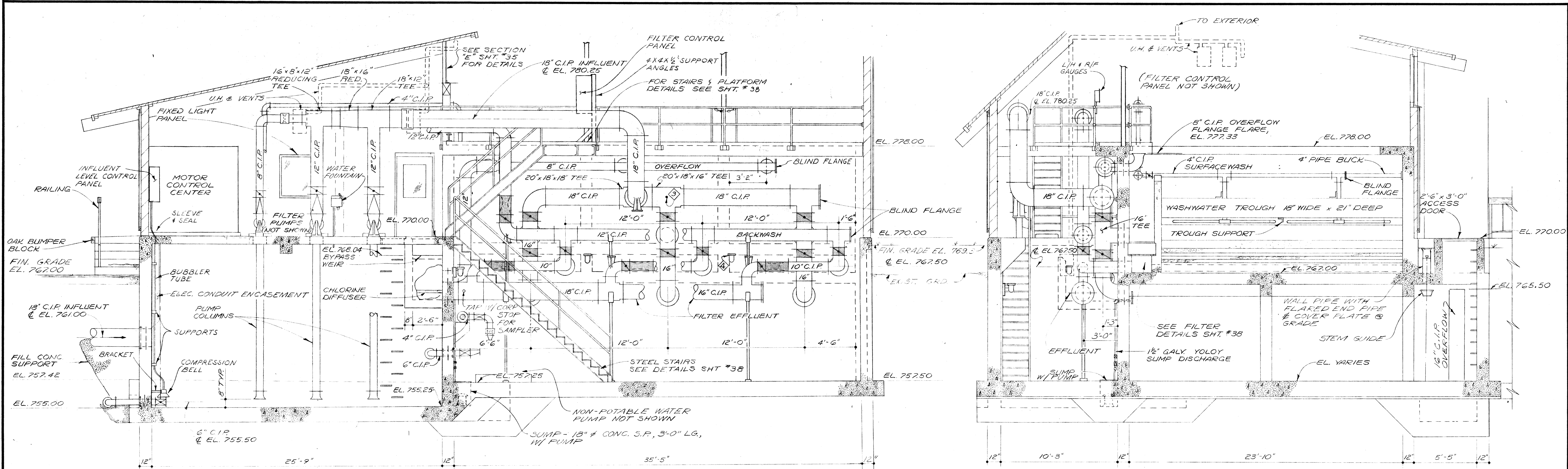
- 1 2'-6" x 3'-0" ACCESS DOOR, BILCO TYPE J-34L;
BABCOCK-DAVIS ASSOCIATES, OR EQUAL.
- 2 OVERFLOW WEIR - SEE DETAIL SHEET #53.
- 3 24" x 24" MANHOLE FRAME & COVER
NEENAH, R-6660-KH TYPE R BUTT
HINGES (SOLID BRONZE); CLOW CORP.,
OR EQUAL.
- 4 8" C.I.P. FLANGE FLARE, 90° BEND,
OVERFLOW, TOP EL. 777.33
- 5 FILTER HIGH LEVEL SWS, HL1, HL2, HL3 (SET AT EL. 777.33)
- 6 FILTER R/F CONTROLLER & L/H GAUGE - MOUNT ON HANDRAIL.
- 7 BACKWASH R/F CONTROLLER.
- 8 FILTER & HOLDING TANK HIGH ALARM PANEL.

PNEUMATIC VALVES BY FILTER EQUIPMENT
MANUFACTURER.

BURGESS & NIPLE, LIMITED CONSULTING ENGINEERS
COLUMBUS, OHIO

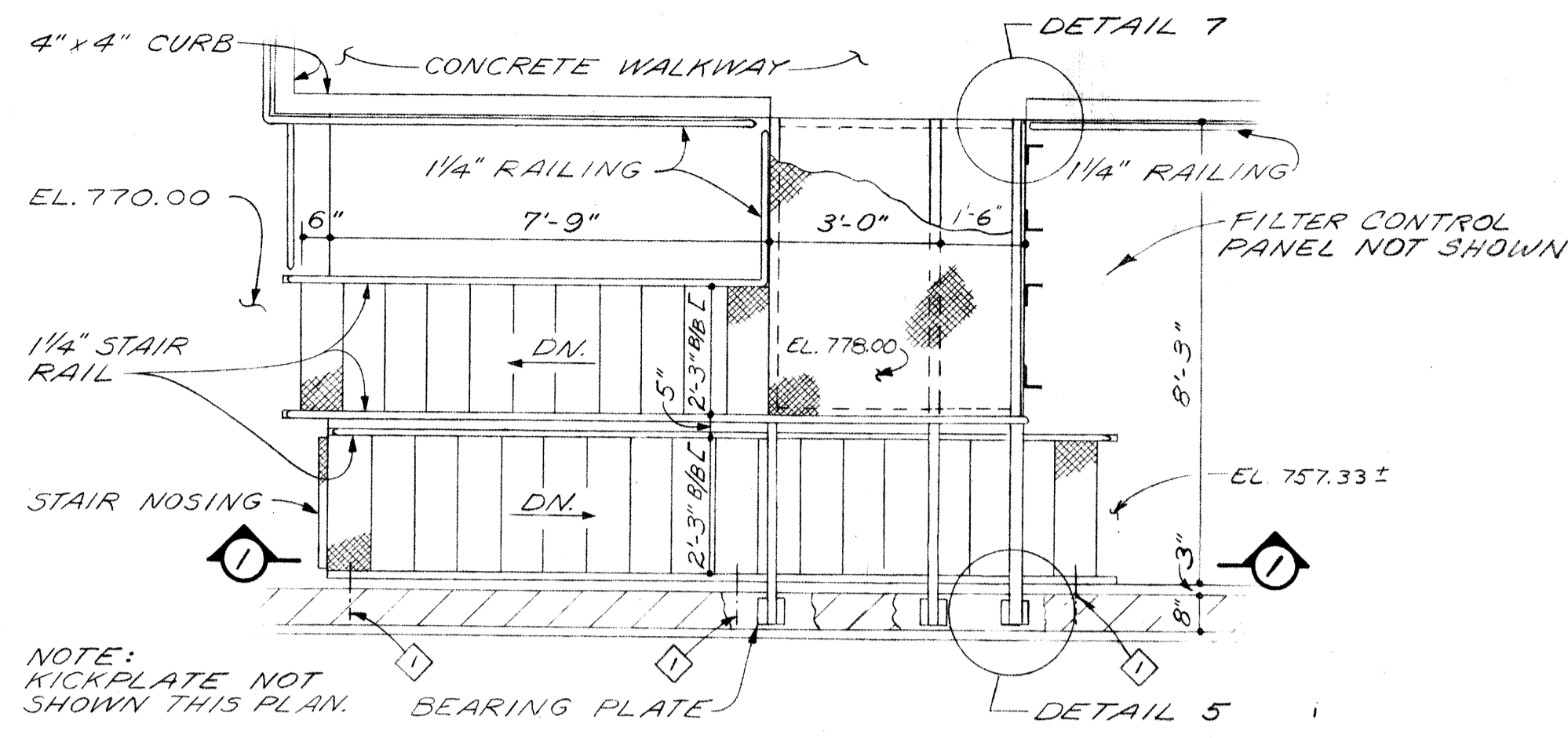
DELAWARE COUNTY, OHIO
OLENTANGY ENVIRONMENTAL CONTROL CENTER
TERTIARY BUILDING
PLANS

REVISIONS APRIL, 1975	DRAWN BY G.M.D. TRACED BY G.M.D.	CHECKED BY APPROVED BY
JUNE, 1973	SCALE: 1/4" = 1'-0"	SHEET 36 OF 75

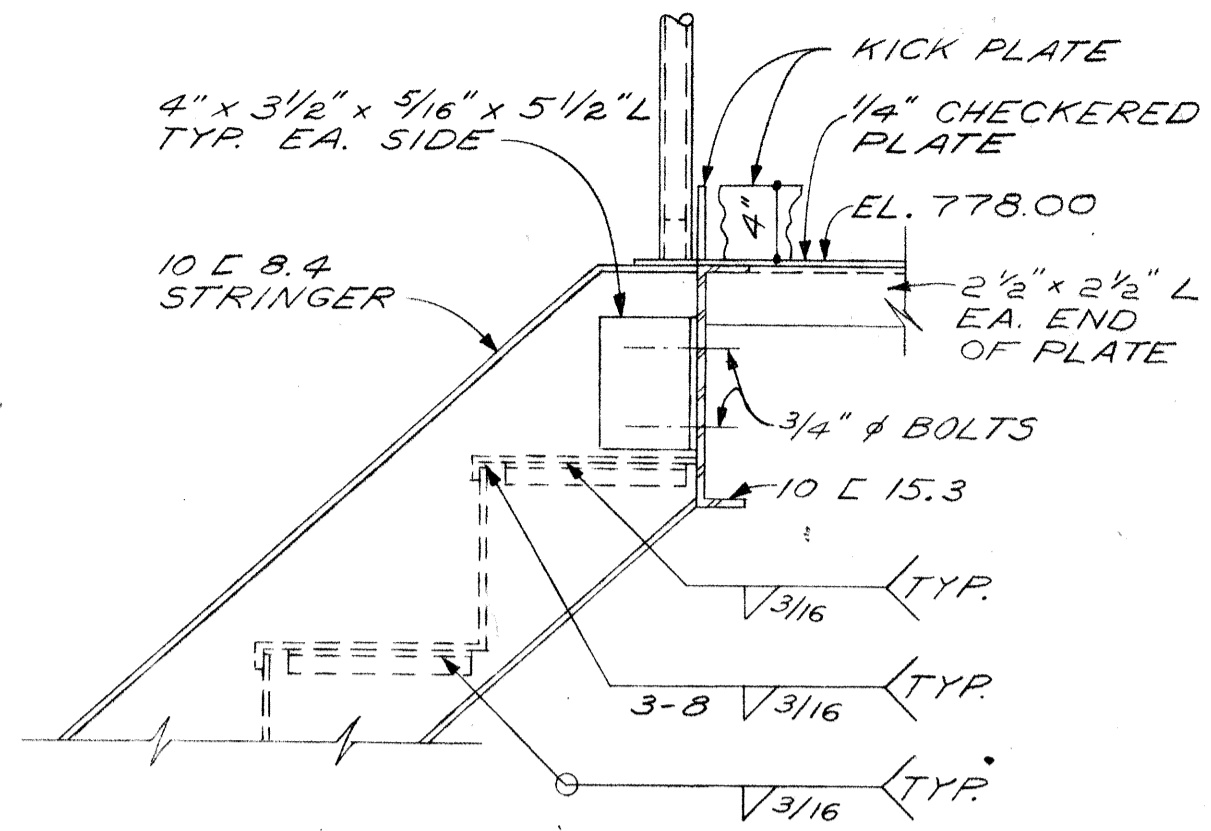


- ◆ EFFLUENT FLUME OVERFLOW WEIR - SEE DETAIL SHT # 53
- ◆ FLOW MEASURING FLUME
- ◆ 1" TAP FOR FILTER LEVEL BUBBLER CONTROL
- ◆ LIGHT FIXTURE (TYP) SEE SHT. # 74
- PNEUMATIC VALVES BY FILTER EQUIPMENT MANUFACTURER.

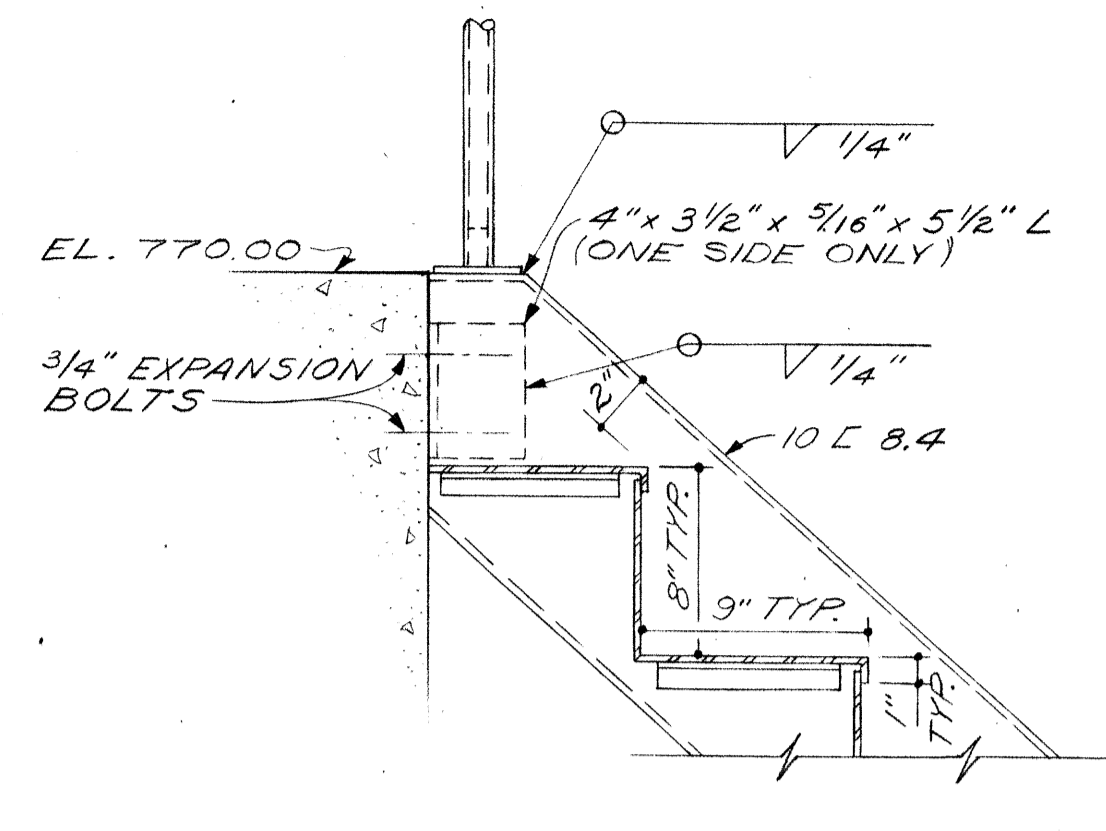
BURGESS & NIPLE, LIMITED		CONSULTING ENGINEERS	
COLUMBUS, OHIO			
DELAWARE COUNTY, OHIO			
OLENTANGY ENVIRONMENTAL CONTROL CENTER			
TERTIARY BUILDING SECTIONS			
REVISIONS APRIL, 1975	DRAWN BY G.M.D.	CHECKED BY	
	TRACED BY G.M.D./R.M.W.	APPROVED BY	
JUNE, 1973	SCALE: 1/4" = 1'-0"	SHEET 37	OF 75



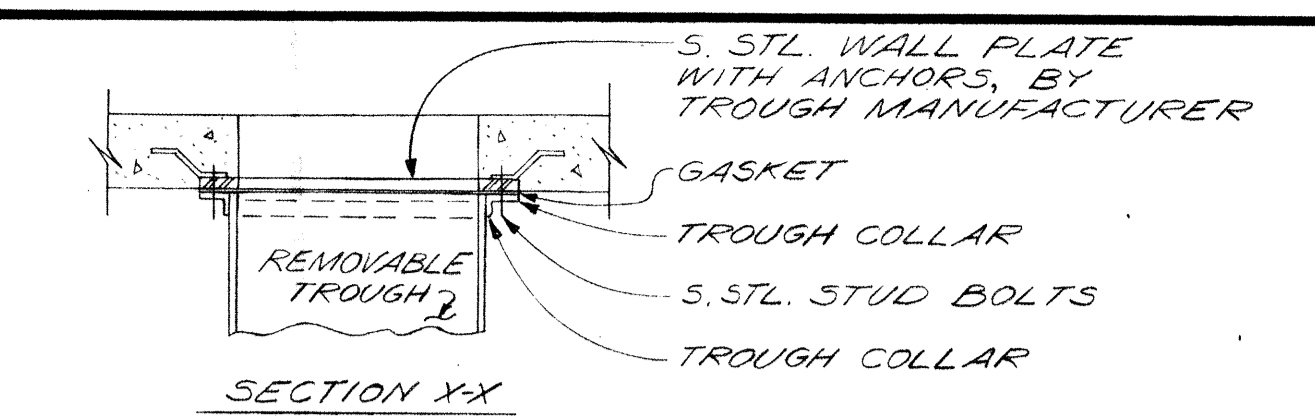
PLAN
SCALE: 3/8"=1'-0"



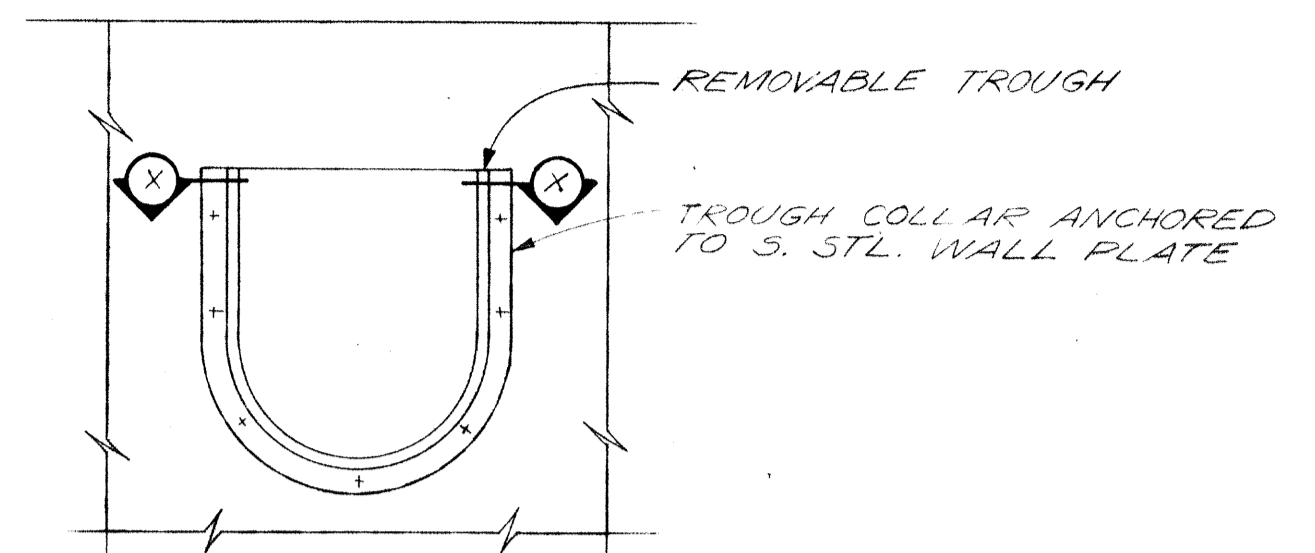
DETAIL 1



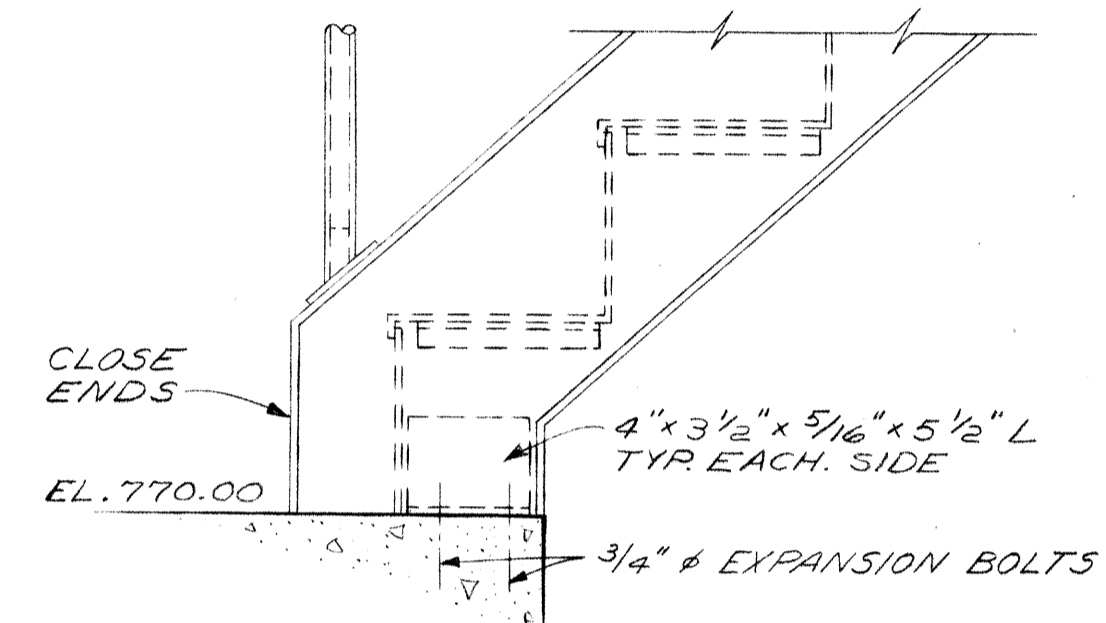
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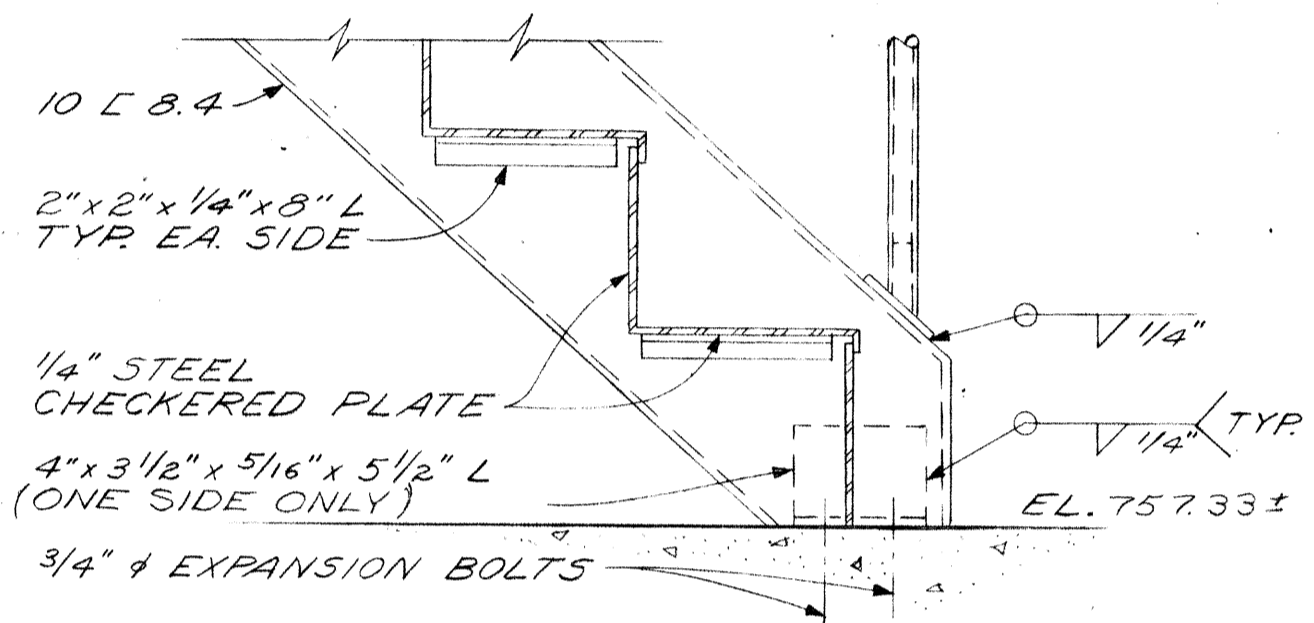
SECTION X-X



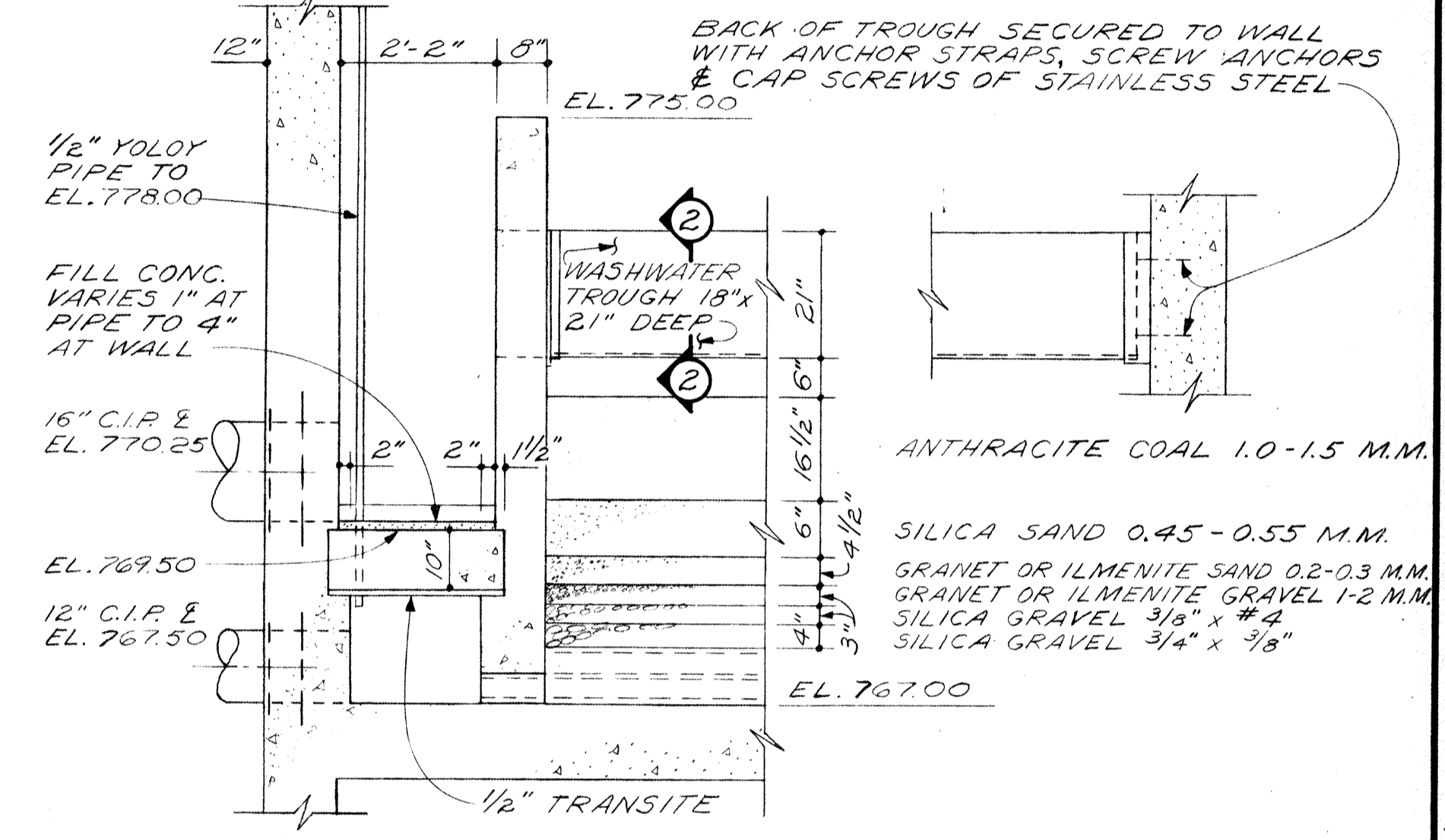
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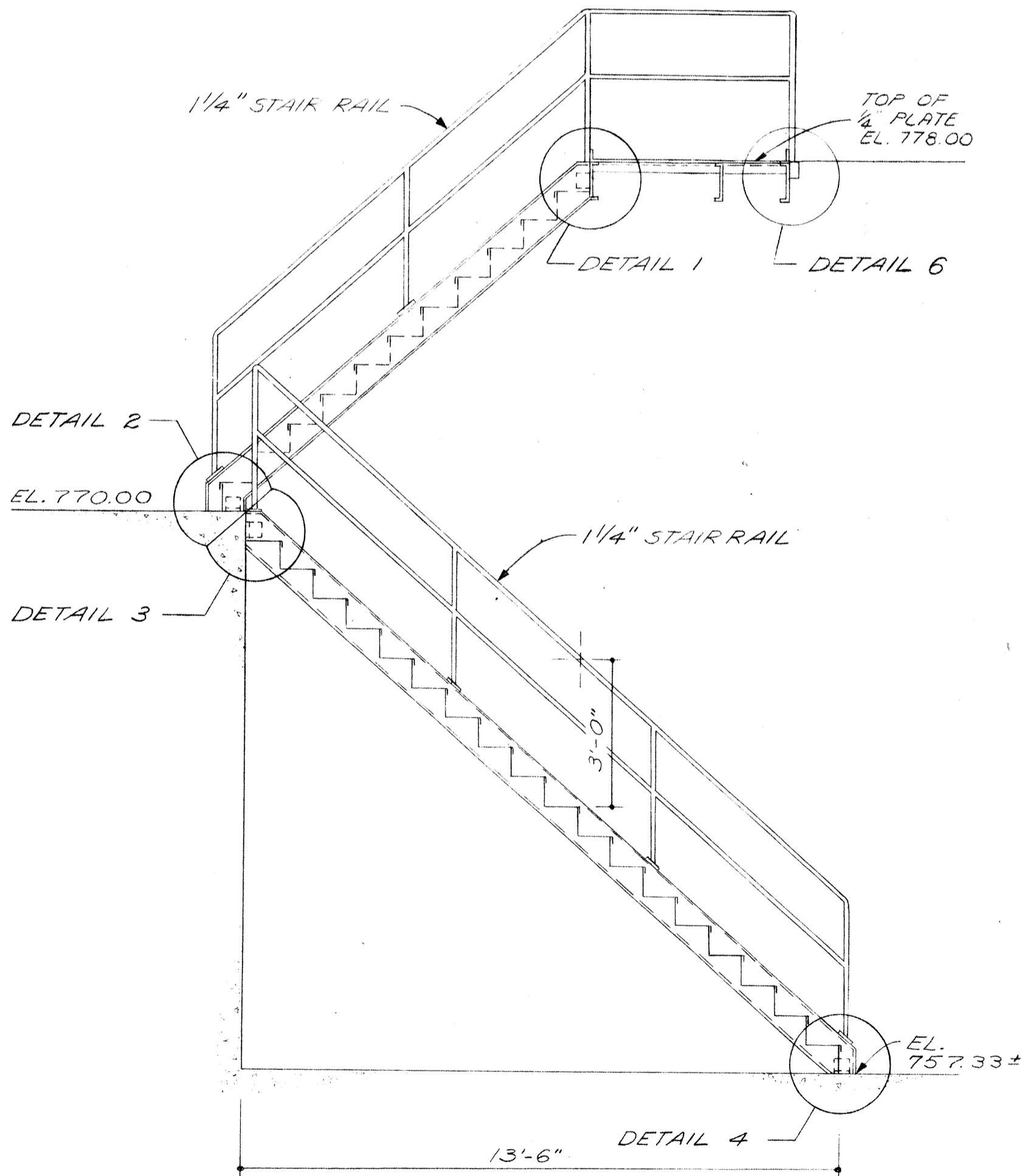
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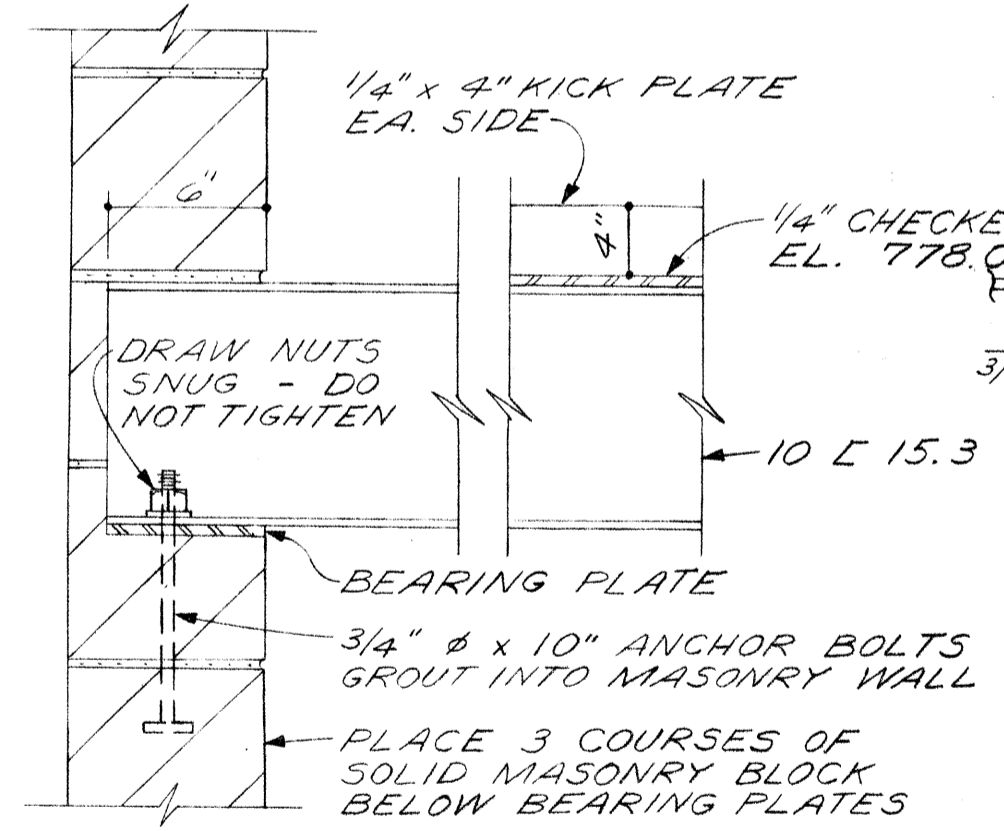
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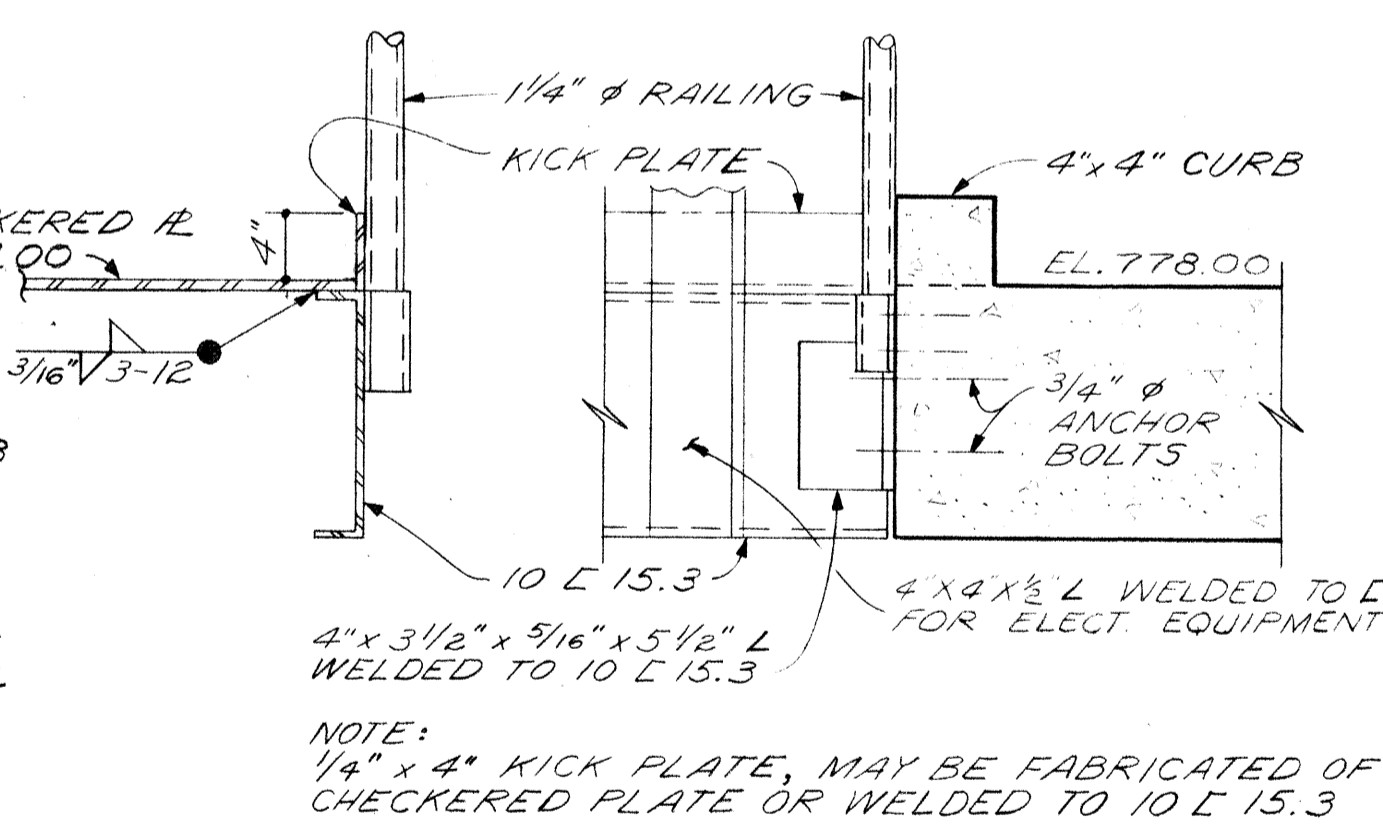
FILTER DETAIL
SCALE: 1/2"=1'-0"



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

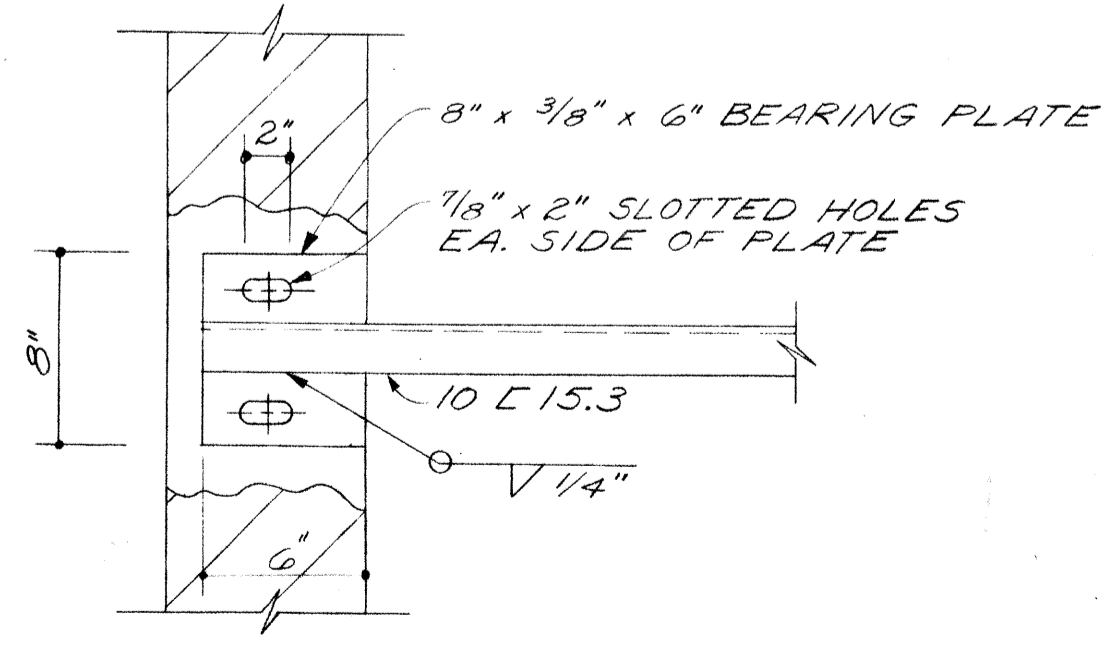


SECTION



DETAIL 6

DETAIL 7

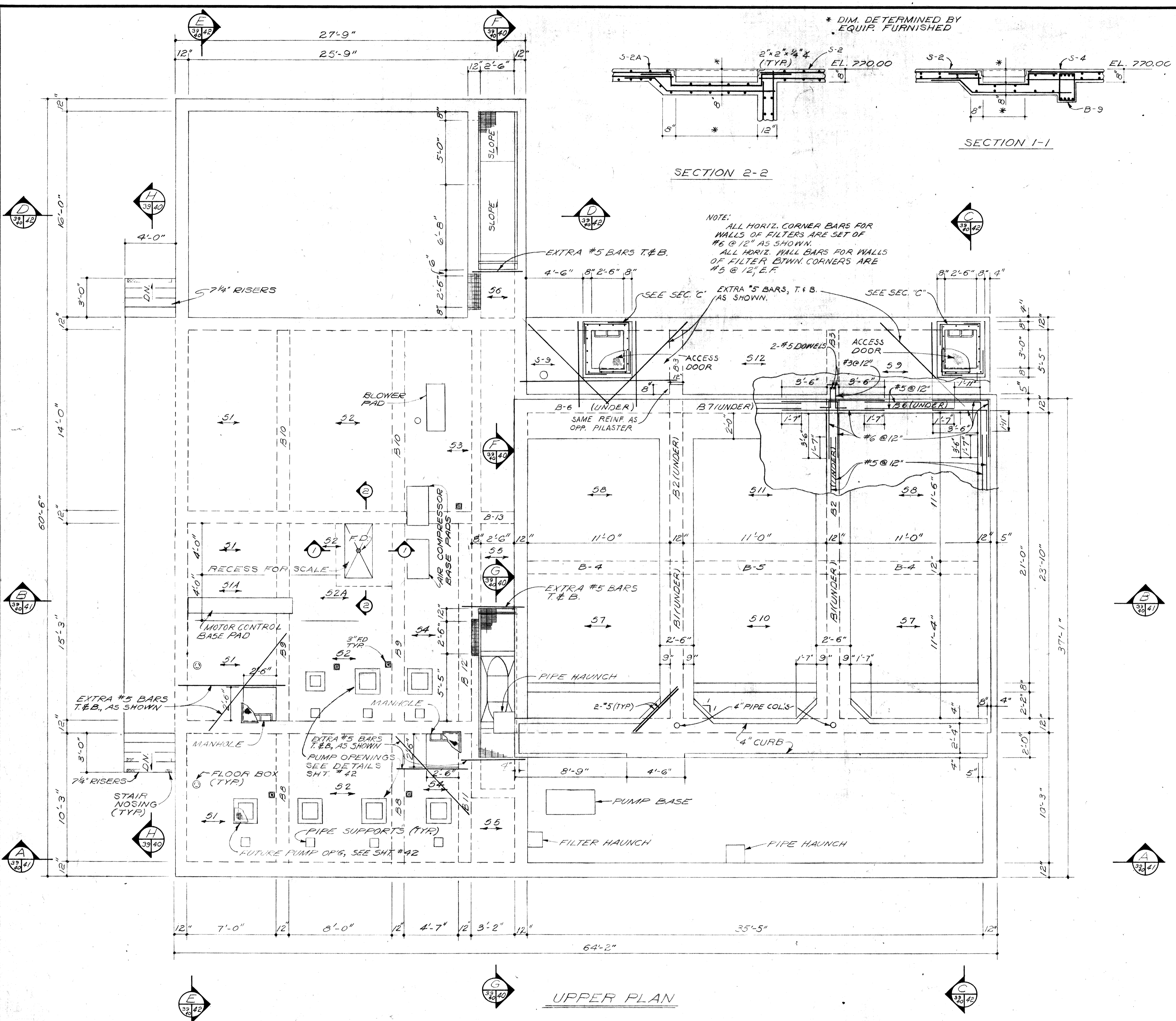


PLAN

DETAIL 5

STAIRS AND PLATFORM DETAILS

BURGESS & NIPLE, LIMITED CONSULTING ENGINEERS COLUMBUS, OHIO		
DELAWARE COUNTY, OHIO OLENTANGY ENVIRONMENTAL CONTROL CENTER		
TERTIARY BUILDING DETAILS		
REVISIONS APRIL, 1975	DRAWN BY G.M.D. TRACED BY G.M.D.	CHECKED BY
JUNE, 1973	SCALE: 1 1/2"=1'-0" UNLESS NOTED	APPROVED BY
		SHEET 38 OF 75



UPPER PLAN

* DIM. DETERMINED BY EQUIP. FURNISHED

NOTE:
ALL HORIZ. CORNER BARS FOR WALLS OF FILTERS ARE SET OF #6 @ 12" AS SHOWN.
ALL HORIZ. WALL BARS FOR WALLS OF FILTER BTWN. CORNERS ARE #5 @ 12", E.F.

MK	DEPTH	REINFORCING					
		"A" BOTTOM	"A" TOP	"A" EXTRA TOP	"B" BOTTOM	"B" TOP	"B" EXTRA TOP
51	8"	#5 @ 12"	#5 @ 12"	---	#5 @ 12"	#5 @ 12"	---
51A	8"	#5 @ 6"	#5 @ 12"	#5x5'-6" @ 12" ALT. @ 6" WITH TOP BARS. CENTER OVER B9 BETWEEN 51A & 52A	#5 @ 12"	#5 @ 12"	---
52	8"	#5 @ 12"	#5 @ 12"	---	#5 @ 12"	#5 @ 12"	---
52A	8"	#5 @ 6"	#5 @ 12"	#5x5'-6" @ 12" ALT. @ 6" WITH TOP BARS. CENTER OVER B9, BTWN. 52A & 54	#5 @ 12"	#5 @ 12"	---
53	8"	#5 @ 12"	#5 @ 12"	---	#5 @ 12"	#5 @ 12"	---
54	8"	#5 @ 12"	#5 @ 12"	---	#5 @ 12"	#5 @ 12"	---
55	8"	#5 @ 12"	#5 @ 12"	---	#5 @ 12"	#5 @ 12"	---
56	8"	#5 @ 12"	#5 @ 12"	---	#5 @ 12"	#5 @ 12"	---
57	12"	#5 @ 12"	#5 @ 12"	#5 @ 12" HOOK BARS, ALT. @ 6" WITH TOP BARS @ EXT. WALLS. (SEE SECTION B-B) #6x8'-0" @ 12" ALT. @ 6" WITH TOP BARS. CENTER OVER B1	#5 @ 12"	#5 @ 12"	#5 @ 12" HOOK BARS, ALT. @ 6" WITH TOP BARS @ EXT. WALLS. (SEE SEC. C-C) #6x8'-0" @ 12" ALT. @ 6" WITH TOP BARS. CENTER OVER B4
58	12"	#5 @ 12"	#5 @ 12"	#5 @ 12" HOOK BARS, ALT. @ 6" WITH TOP BARS @ EXT. WALLS. (SEE SECTION B-B) #6x8'-0" @ 12" ALT. @ 6" WITH TOP BARS. CENTER OVER B2	#5 @ 12"	#5 @ 12"	SEE 57 & 59
59	12"	#5 @ 12"	#5 @ 12"	#6x8'-0" @ 12" ALT. @ 6" WITH TOP BARS. CENTER OVER B3	#5 @ 12"	#5 @ 12"	#6x8'-0" @ 12" ALT. @ 6" WITH TOP BARS. CENTER OVER B6
510	12"	#5 @ 12"	#5 @ 12"	SEE 57	#5 @ 12"	#5 @ 12"	#3 @ 12" HOOK BARS, ALT. @ 6" WITH TOP BARS @ EXT. WALLS. (SEE SEC. C-C) #6x8'-0" @ 12" ALT. @ 6" WITH TOP BARS. CENTER OVER B5
511	12"	#5 @ 12"	#5 @ 12"	SEE 58	#5 @ 12"	#5 @ 12"	SEE 510 & 512
512	12"	#5 @ 12"	#5 @ 12"	SEE 59	#5 @ 12"	#5 @ 12"	#6x8'-0" @ 12" ALT. @ 6" WITH TOP BARS. CENTER OVER B7

MK	SIZE	REINFORCING		REMARKS	#3 CLOSED STIRRUPS, SPACING FROM FACE OF SUPPORT, EA. END
		BOTTOM	TOP		
B1	12" x 24"	2-#8 2-#11	2-#9 CONT. 2-#11x8'-0" CTR. 2-#11x8'-0" OVER COL. BETWEEN B-1 & B-2		12 @ 3", 2 @ 4", 3 @ 6"
B2	12" x 24"	4-#8	2-#9 CONT. 2-#11x8'-0" CTR. 2-#11x8'-0" OVER COL. BETWEEN B-2 & B-3		8 @ 3", 2 @ 4", 3 @ 6", 1 @ 8"
B3	12" x 24"	4-#5	2-#9 CONT.	SEE B-2	5 @ 4"
B4	12" x 24"	2-#8 2-#9	2-#9 CONT.	SEE B-5	7 @ 4", 2 @ 6", 1 @ 8", 1 @ 10"
B5	12" x 24"	2-#7 2-#8	2-#9 CONT. 2-#9x8'-0" CTR. 2-#9x8'-0" OVER COL., EA. END		4 @ 6", 1 @ 8", 2 @ 10"
B6	12" x 24"	2-#8 2-#9	2-#9 CONT.	SEE B-7	7 @ 4", 2 @ 6", 1 @ 8", 1 @ 10"
B7	12" x 24"	2-#7 2-#8	2-#9 CONT. 2-#9x8'-0" CTR. 2-#9x8'-0" OVER COL. EA. END		4 @ 6", 1 @ 8", 2 @ 10"
B8	12" x 20"	4-#6	2-#9 CONT. 2-#6x8'-0" CTR. 2-#6x8'-0" OVER WALL BETWEEN B-8 & B-9		4 @ 6", 2 @ 8"
B9	12" x 20"	4-#7	2-#9 CONT.	SEE B-8 & B-10	4 @ 6", 3 @ 8", 2 @ 10"
B10	12" x 20"	2-#8 2-#9	2-#9 CONT. 2-#9x9'-0" CTR. 2-#9x9'-0" OVER WALL BETWEEN B-9 & B-10		6 @ 4", 2 @ 6", 2 @ 8", 1 @ 10"
B11	12" x 20"	4-#5	2-#6 CONT. 2-#7x8'-0" CTR. 2-#7x8'-0" OVER WALL BETWEEN B-11 & B-12		4 @ 6", 2 @ 8"
B12	12" x 20"	2-#6 2-#7	2-#6 CONT.	SEE B-11	4 @ 6", 3 @ 8", 2 @ 10"
B13	12" x 20"	2-#6 2-#7	2-#6 CONT.	---	6 @ 6"

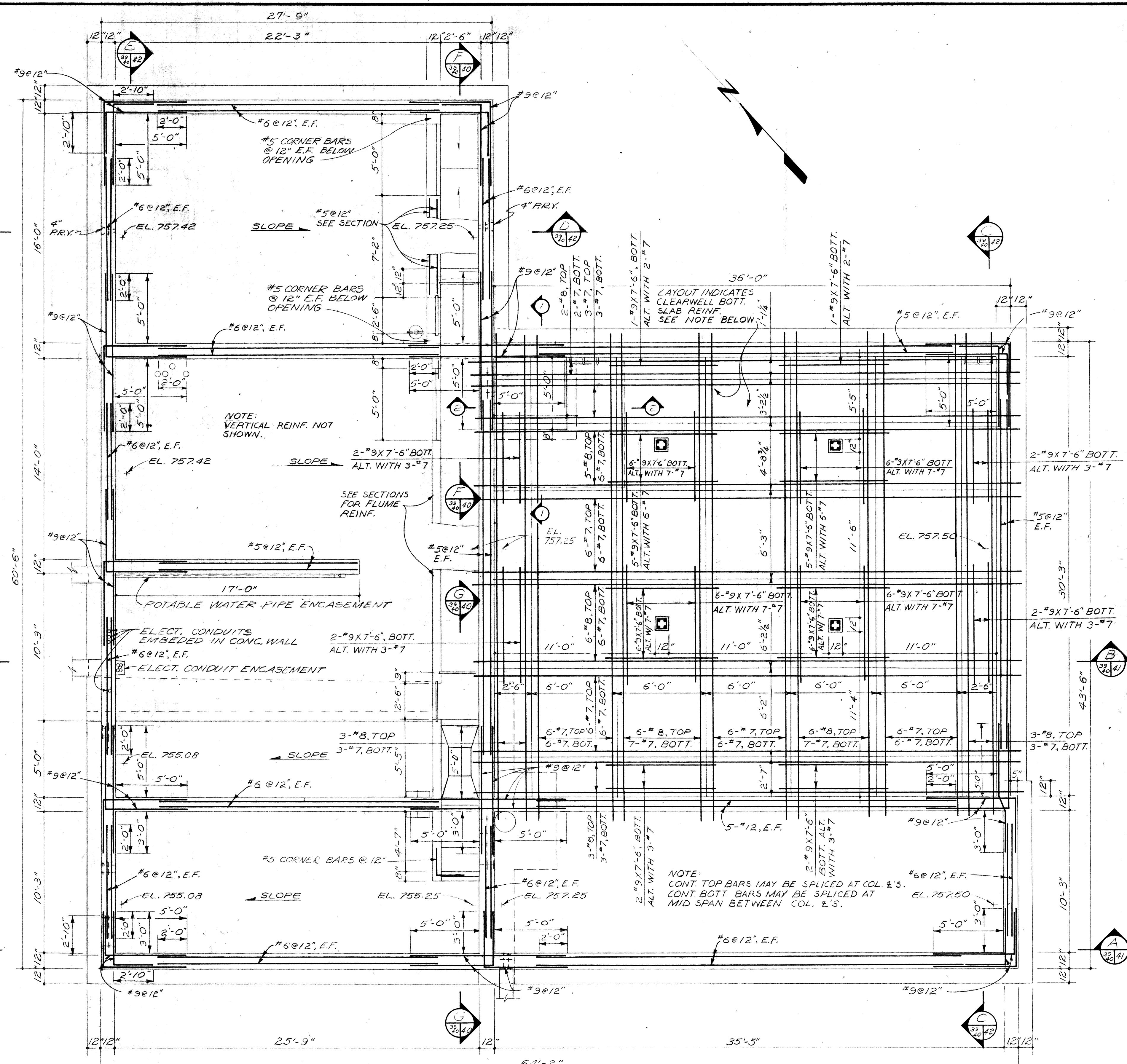
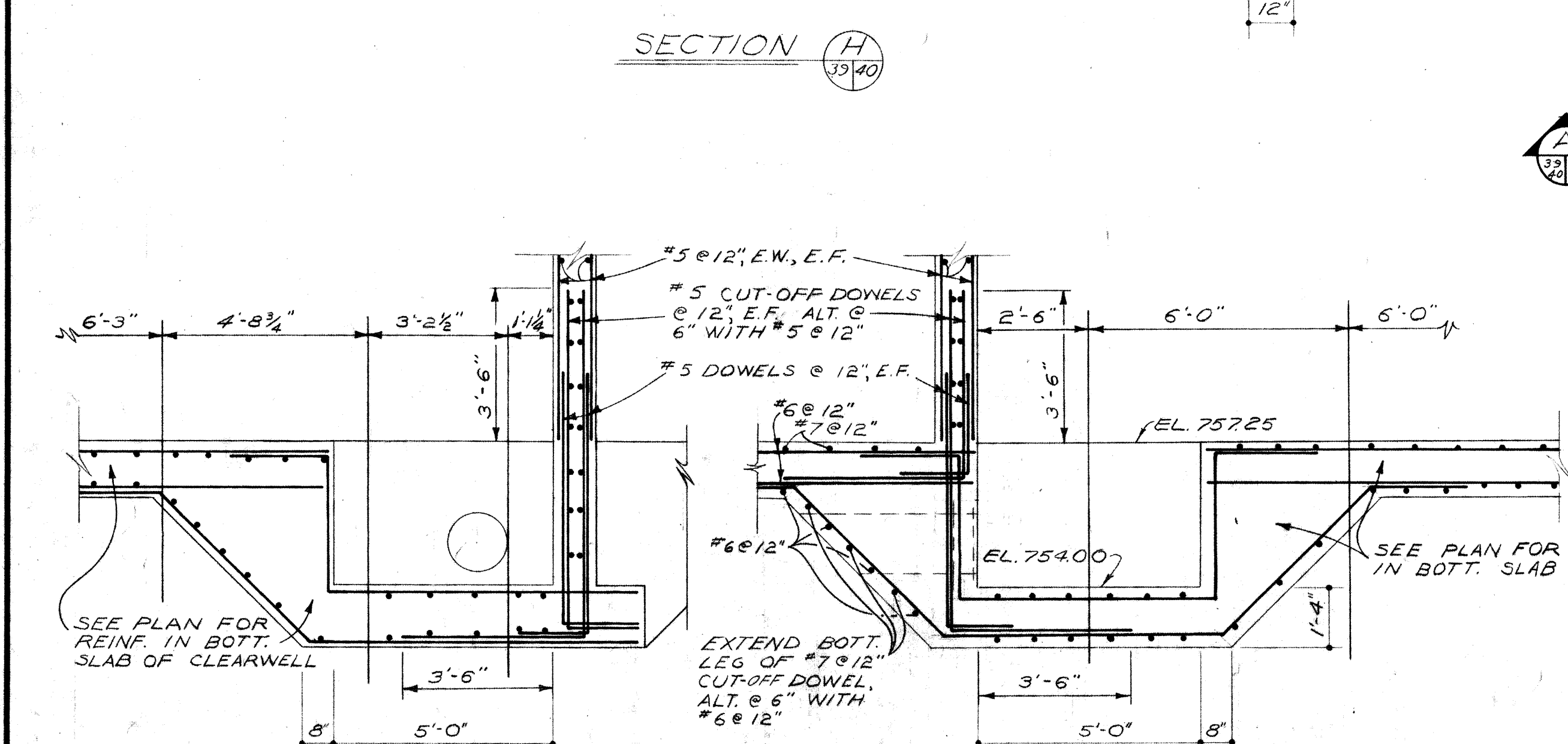
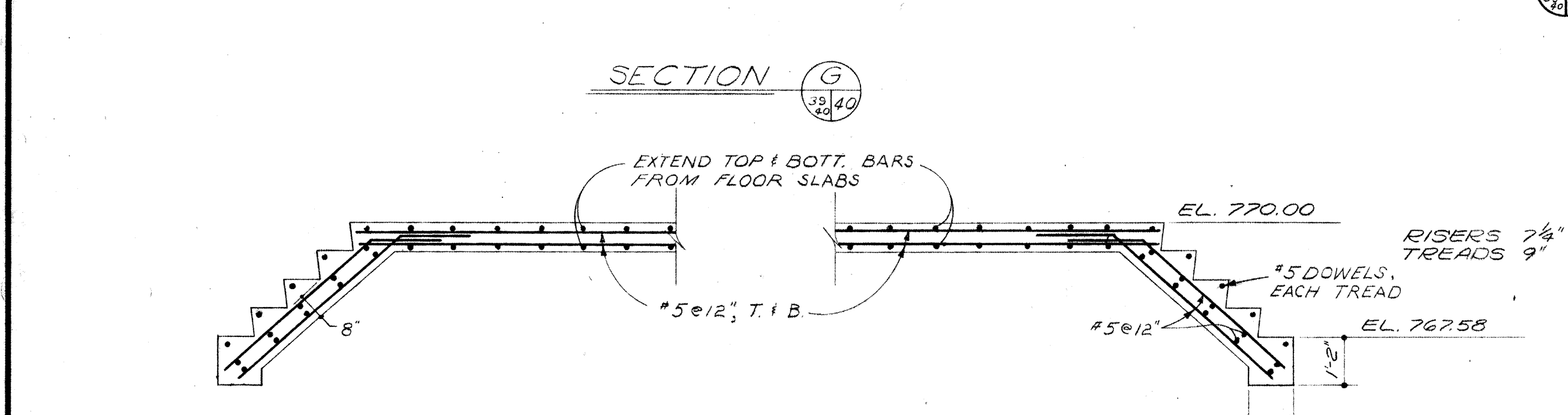
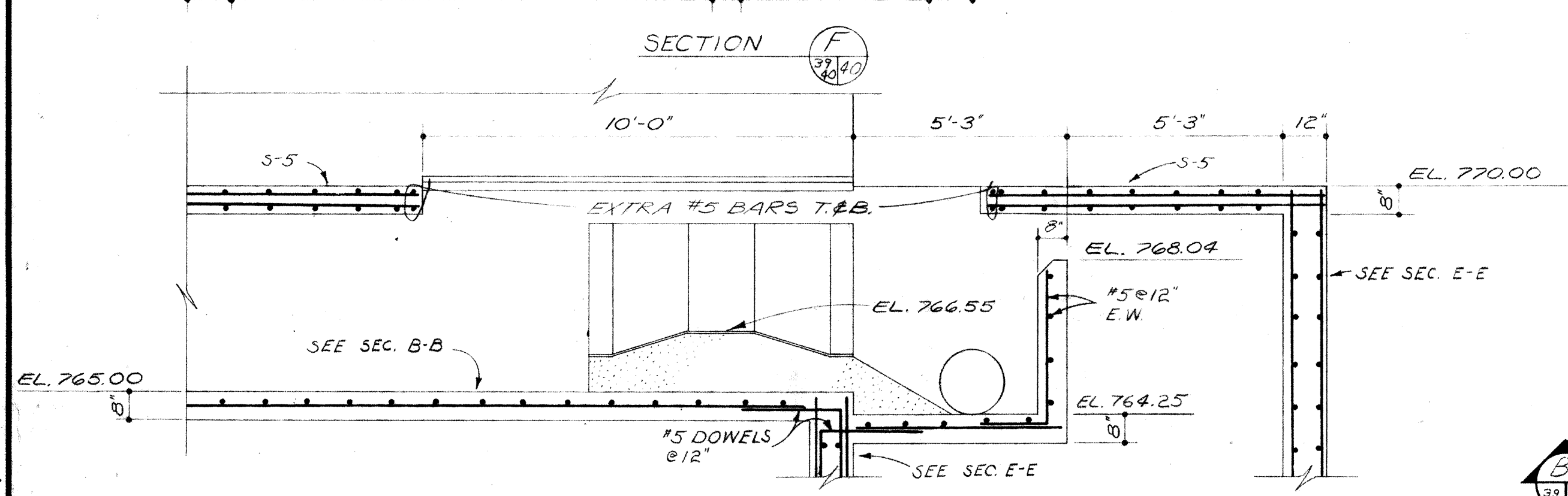
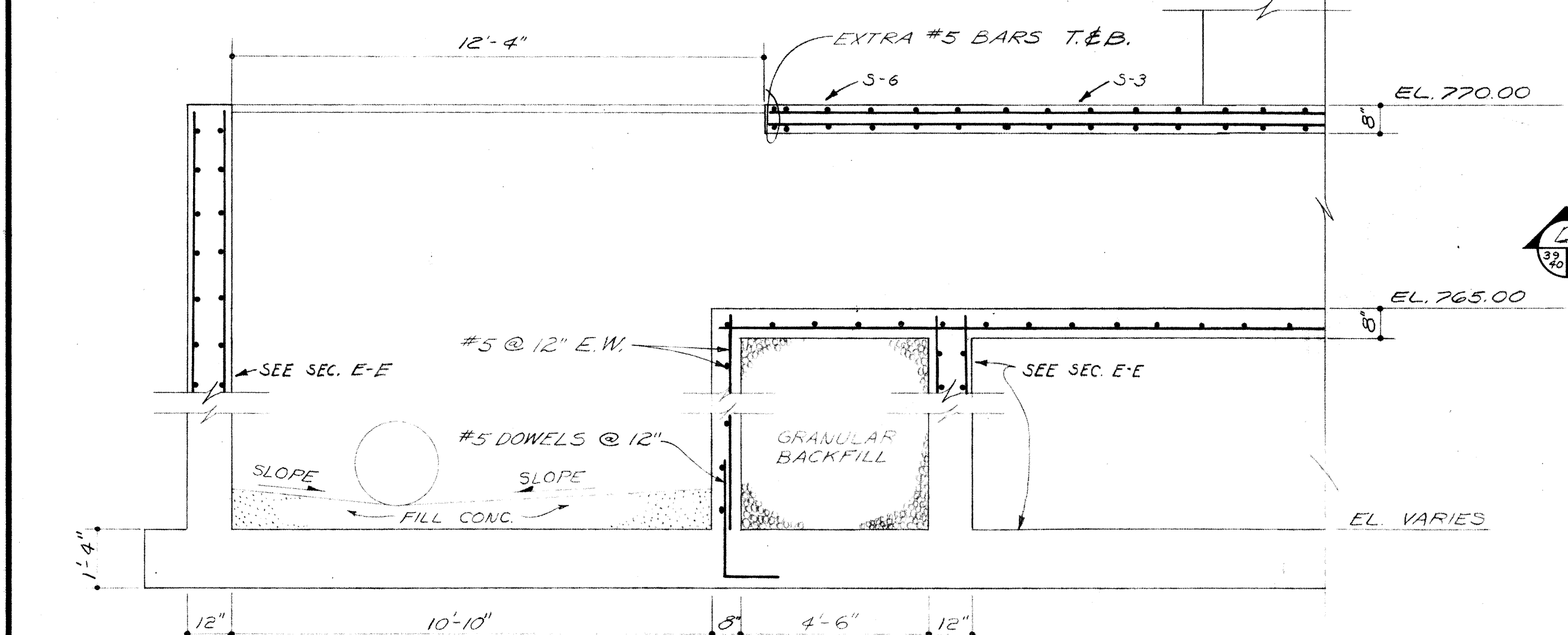
NOTE:
HANDRAIL NOT SHOWN. SEE MECHANICAL DRAWINGS FOR ARRANGEMENTS.

BURGESS & NIPLE, LIMITED CONSULTING ENGINEERS
COLUMBUS, OHIO

DELAWARE COUNTY, OHIO
OLENTANGY ENVIRONMENTAL CONTROL CENTER

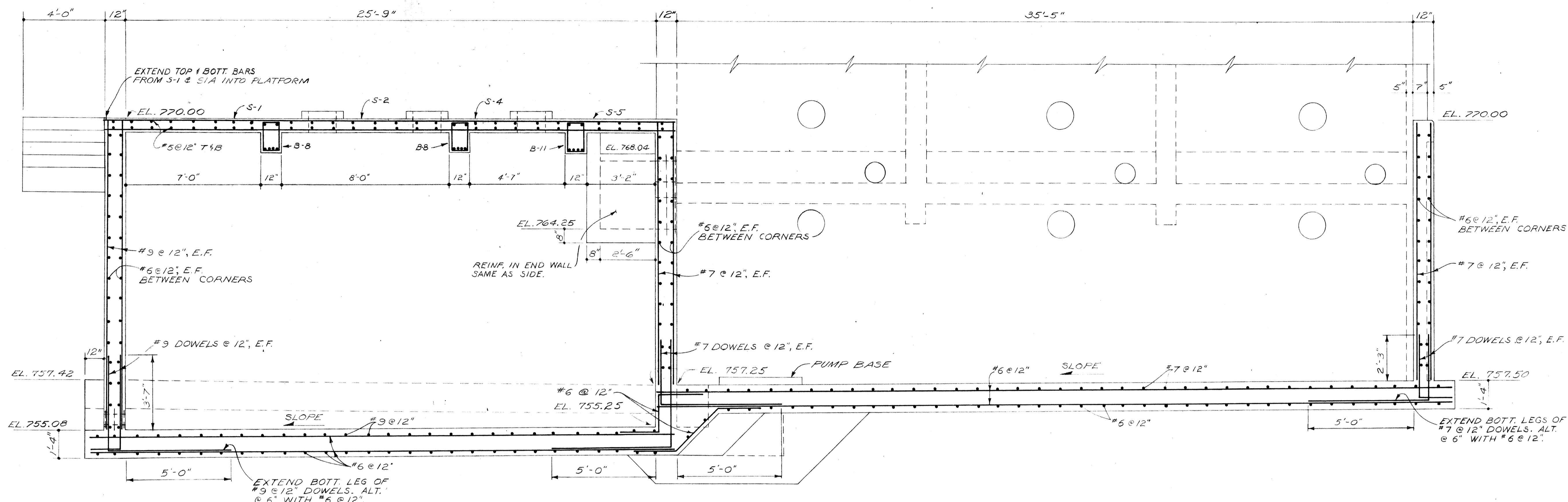
CONCRETE & REINFORCING STEEL
TERTIARY BUILDING

REVISIONS APRIL, 1975	DRAWN BY G.M.D. TRACED BY N.A.W.	CHECKED BY APPROVED BY
JUNE, 1973	SCALE: 1/4" = 1'-0"	SHEET 39 OF 75

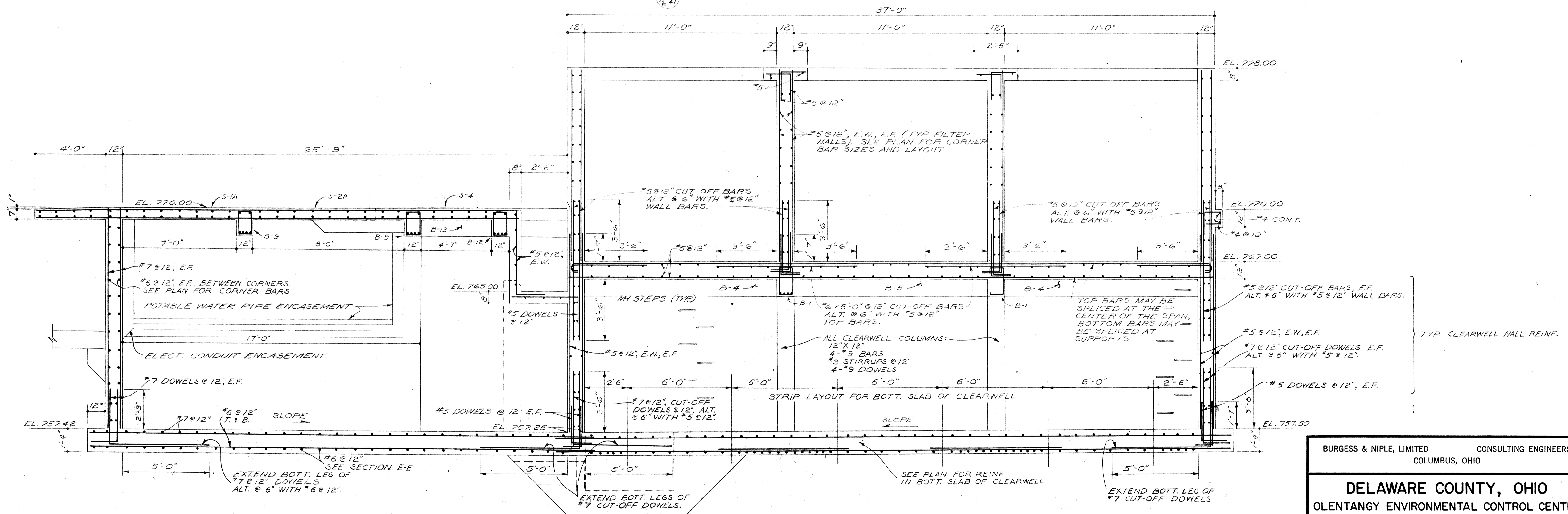


LOWER PLAN
SCALE: 1/4" = 1'-0"

BURGESS & NIPLE, LIMITED		CONSULTING ENGINEERS
COLUMBUS, OHIO		
DELAWARE COUNTY, OHIO		
OLENTANGY ENVIRONMENTAL CONTROL CENTER		
CONCRETE & REINFORCING STEEL		
TERTIARY BUILDING		
REVISIONS APRIL, 1975	DRAWN BY G.M.D. TRACED BY H.T.K.	CHECKED BY APPROVED BY
JUNE, 1973	SCALE: 3/8" = 1'-0" UNLESS NOTED	SHEET 40 OF 75

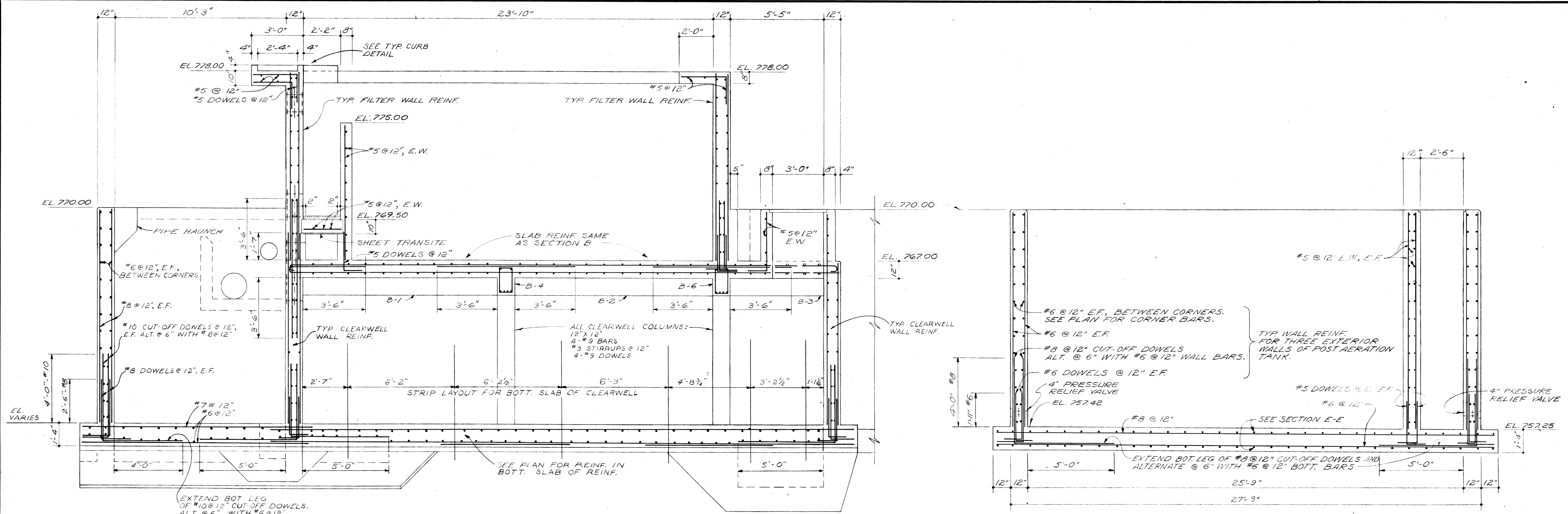


SECTION A
25/41



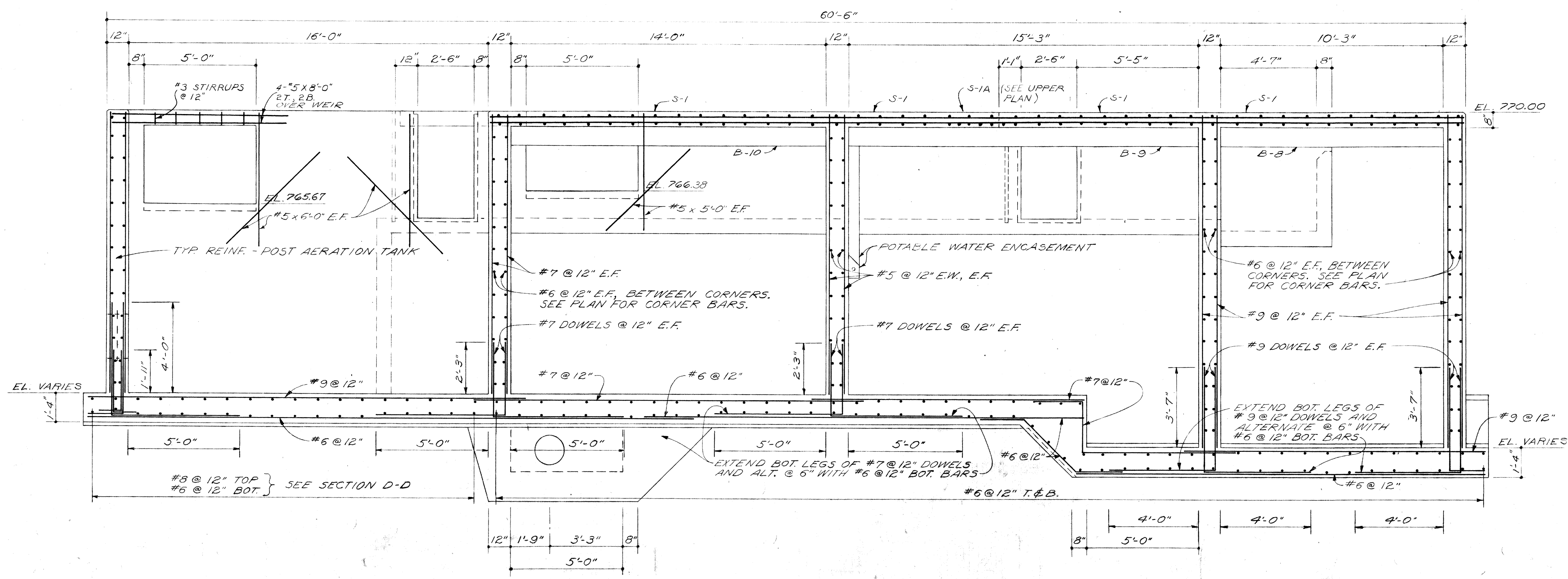
SECTION B
25/41

BURGESS & NIPLE, LIMITED		CONSULTING ENGINEERS
COLUMBUS, OHIO		
DELAWARE COUNTY, OHIO		
OLENTANGY ENVIRONMENTAL CONTROL CENTER		
CONCRETE & REINFORCING STEEL		
TERTIARY BUILDING		
REVISIONS APRIL, 1975	DRAWN BY G.M.D. TRACED BY G.M.D.	CHECKED BY APPROVED BY
JUNE, 1973	SCALE: 3/8"=1'-0"	SHEET 41 OF 75

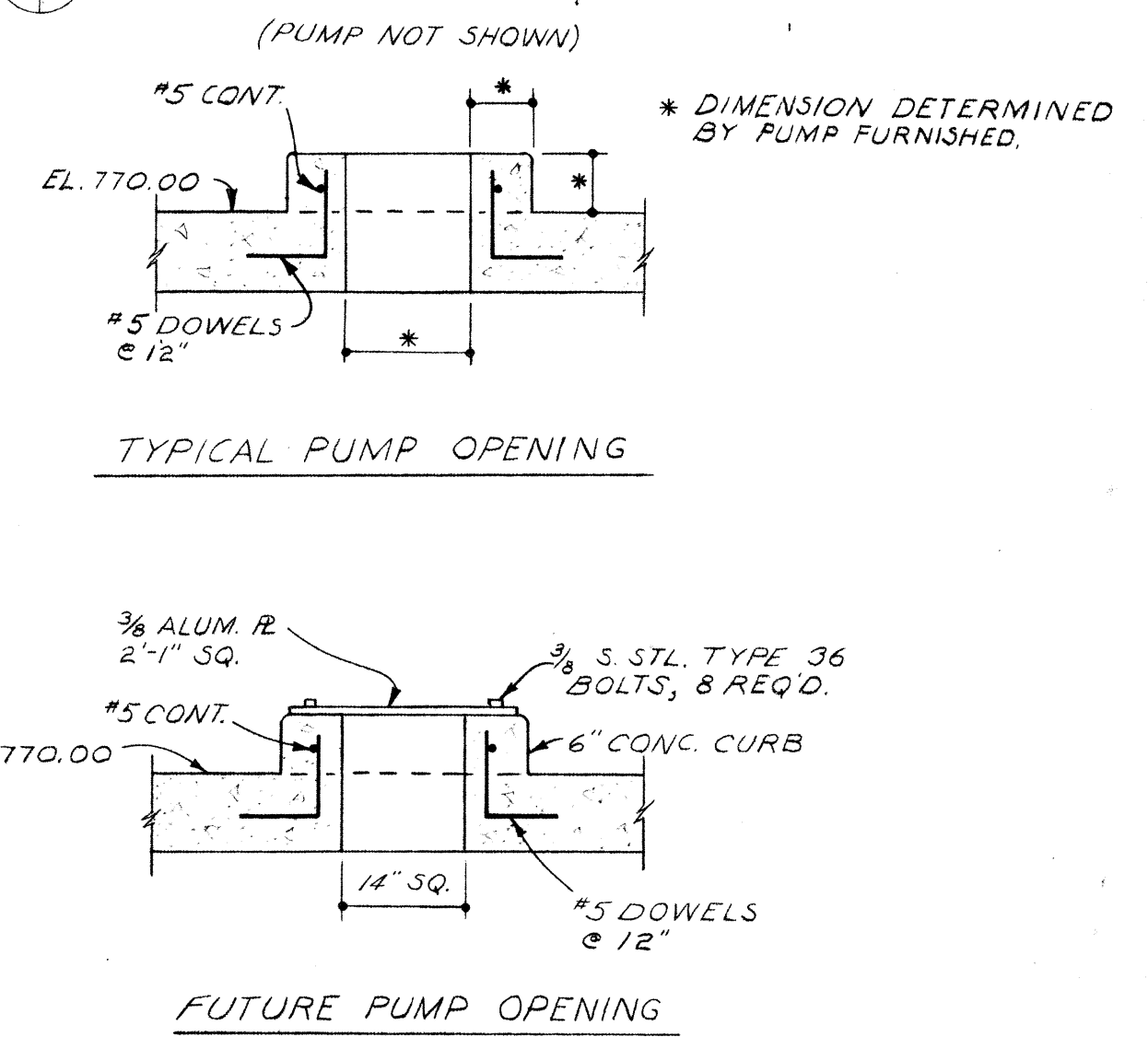


SECTION C

SECTION D



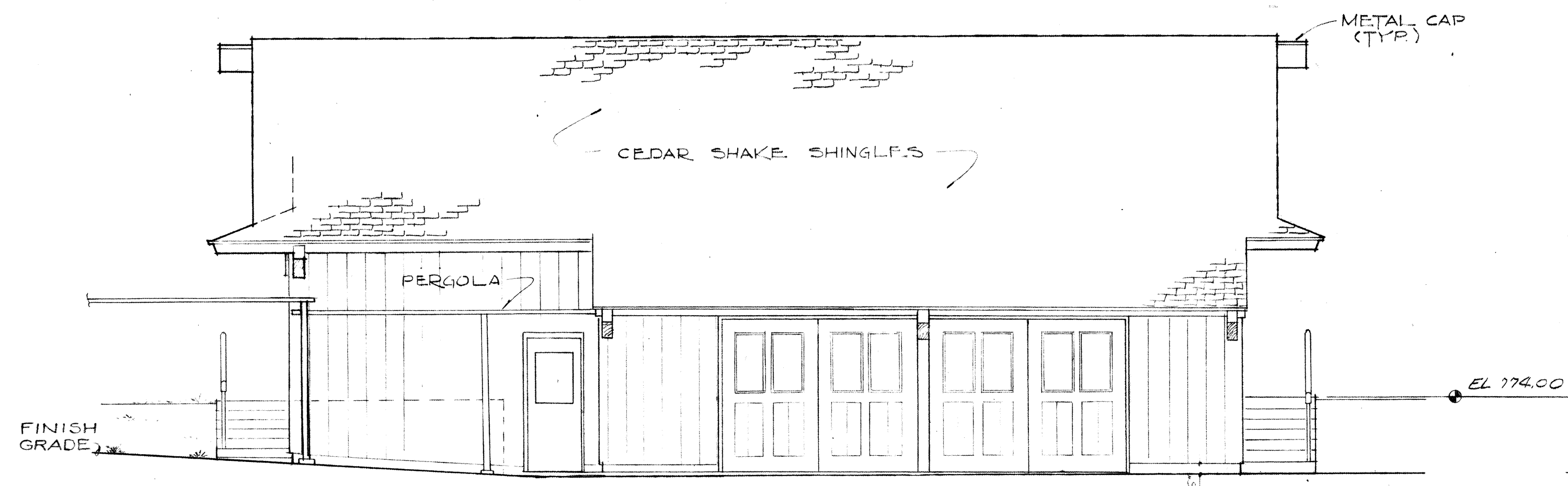
SECTION E



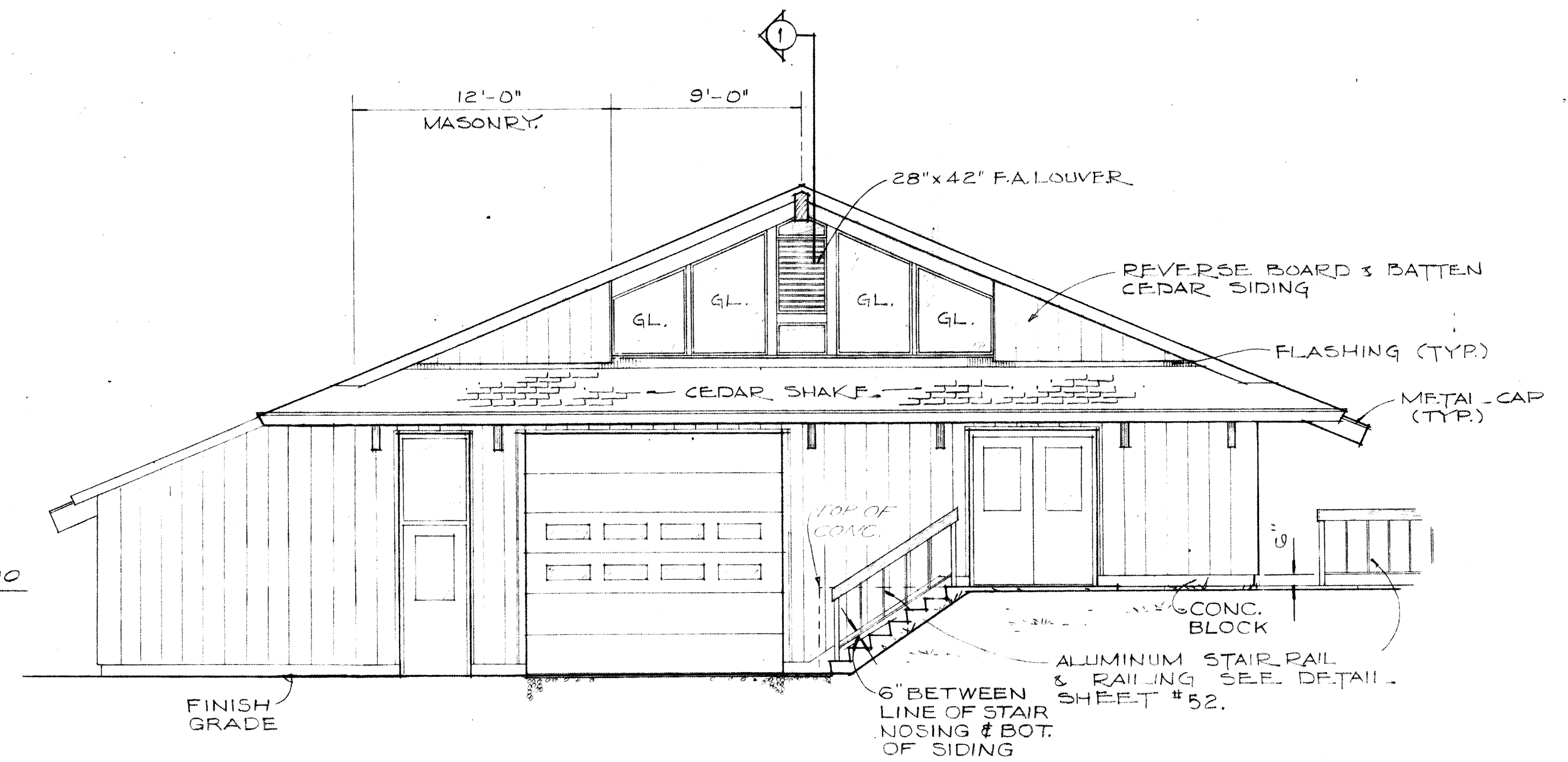
BURGESS & NIPLE, LIMITED CONSULTING ENGINEERS
COLUMBUS, OHIO

DELAWARE COUNTY, OHIO
OLENTANGY ENVIRONMENTAL CONTROL CENTER
CONCRETE & REINFORCING STEEL
TERTIARY BUILDING

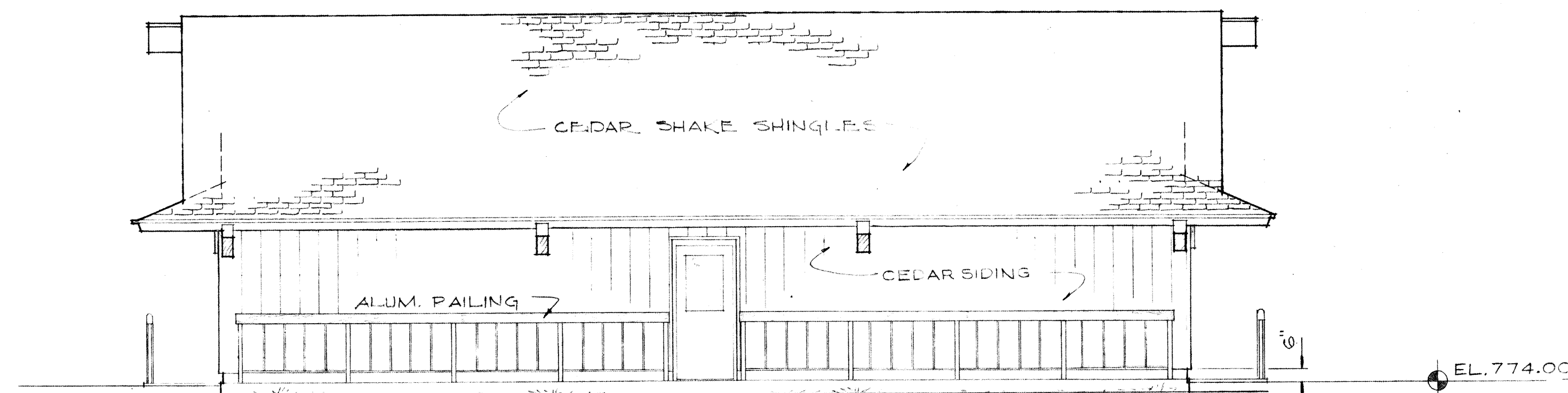
REVISIONS APRIL, 1975	DRAWN BY G.M.D. TRACED BY G.M.D.	CHECKED BY APPROVED BY
JUNE, 1973	SCALE: 3/8" = 1'-0"	SHEET 42 OF 75



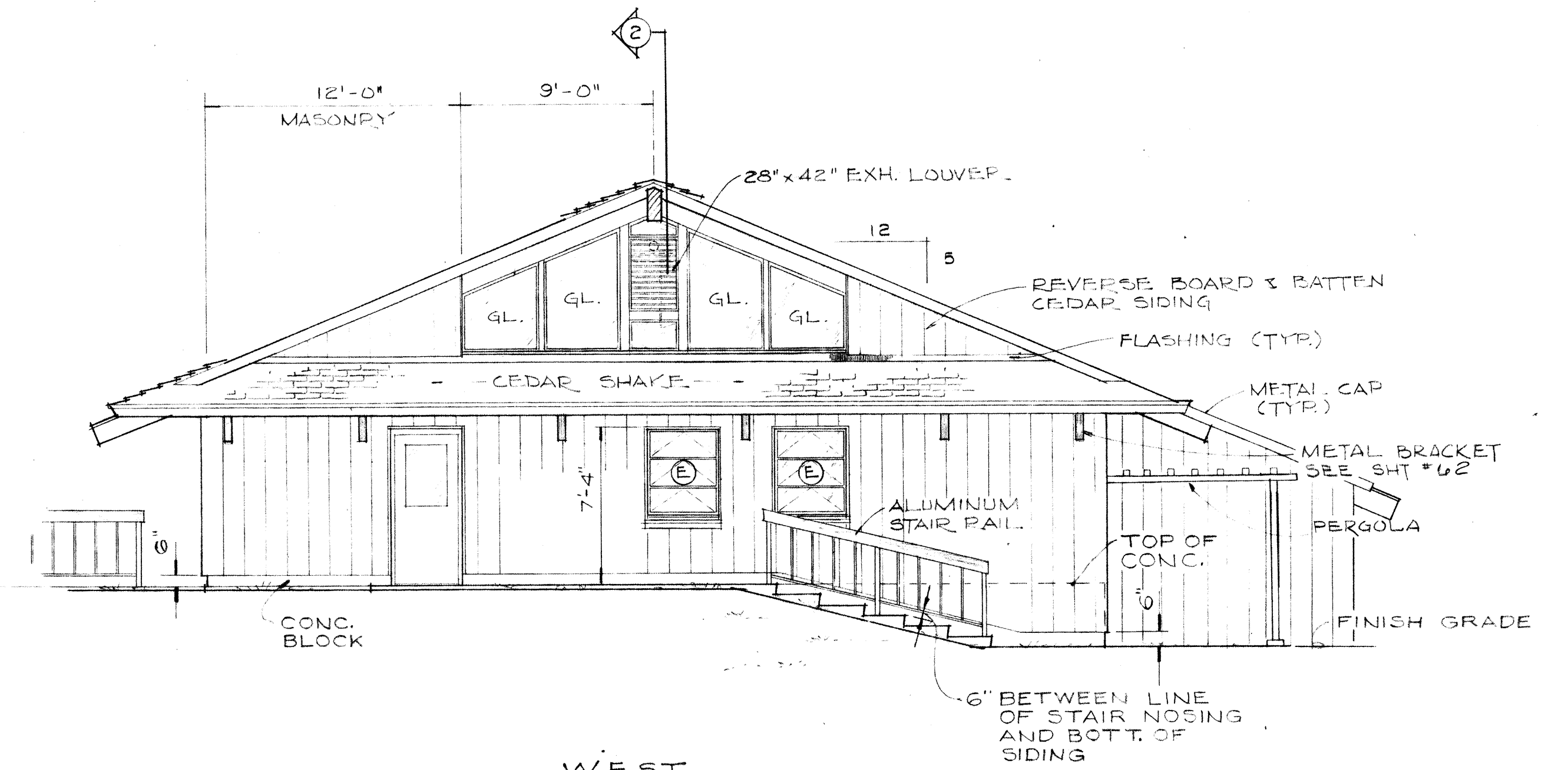
SOUTH



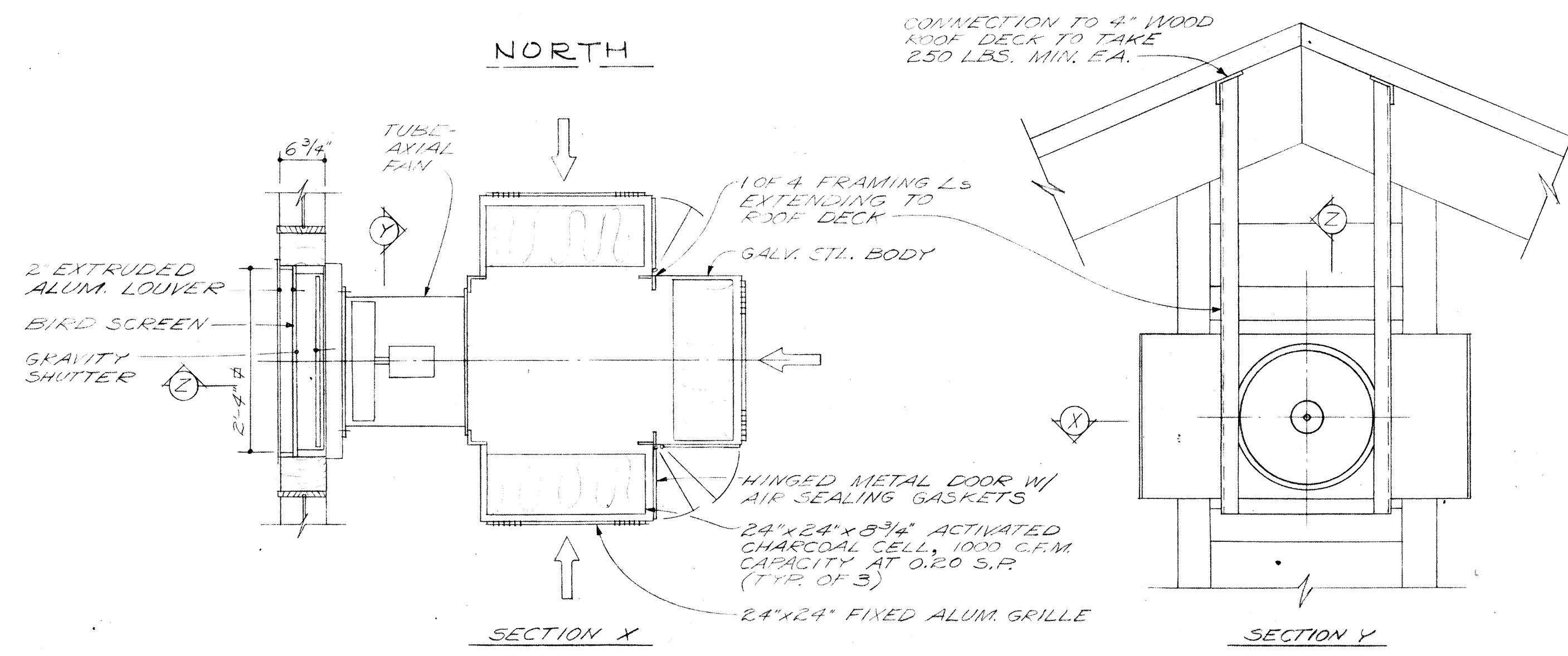
EAST



NORTH

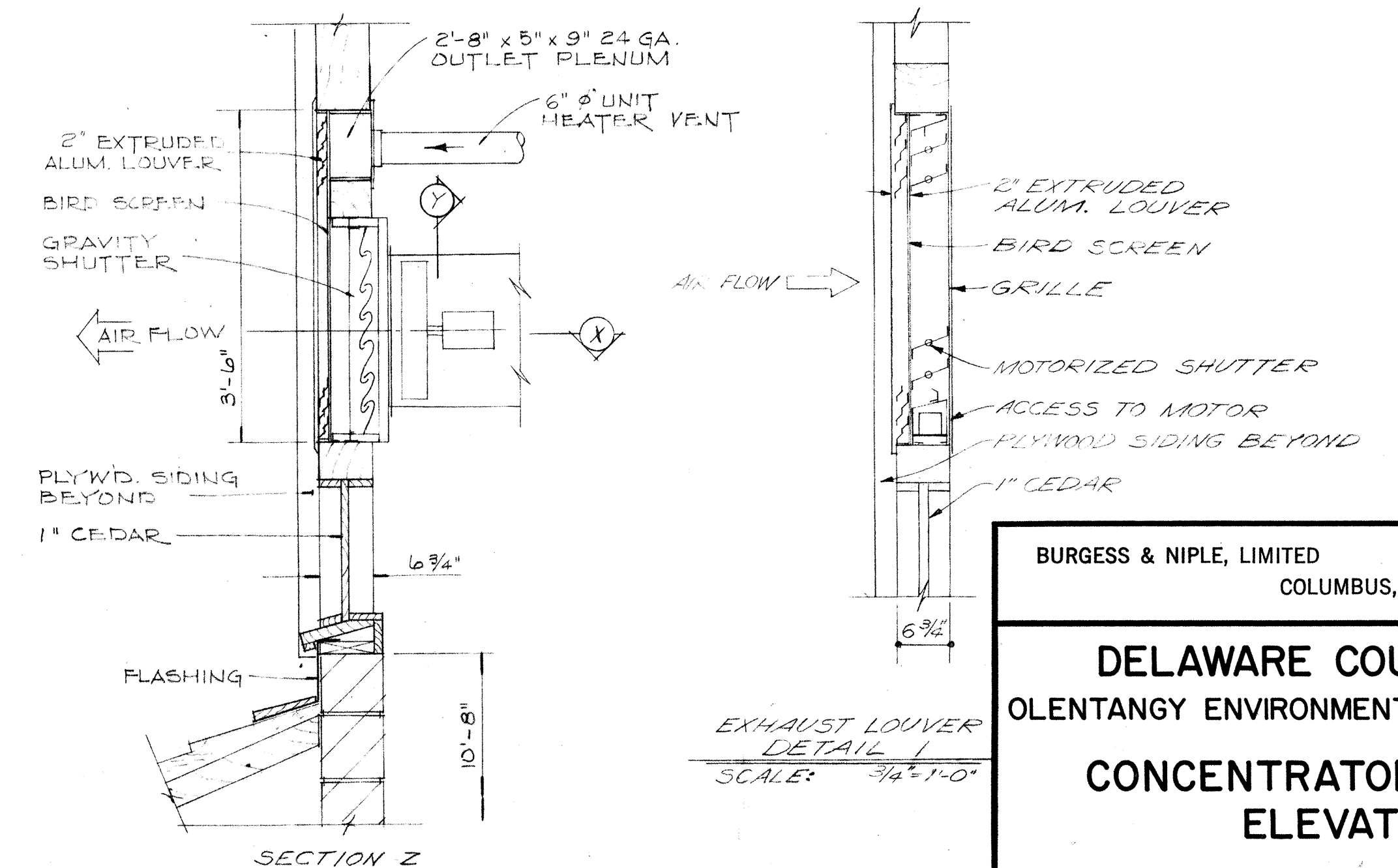


WEST



NOTE: EXHAUST UNIT OF FILTER AREA IN TERTIARY BUILDING TO BE SIMILAR EXCEPT IT SHALL BE FABRICATED TO TAKE 2 ACTIVATED CHARCOAL CELLS OF 1000 C.F.M. CAPACITY @ 0.20 S.P. AND SHALL EXHAUST THRU A 2'-0" x 2'-0" x 2" ALUM. LOUVER.

EXHAUST UNIT - DETAIL B
SCALE: 3/4" = 1'-0"

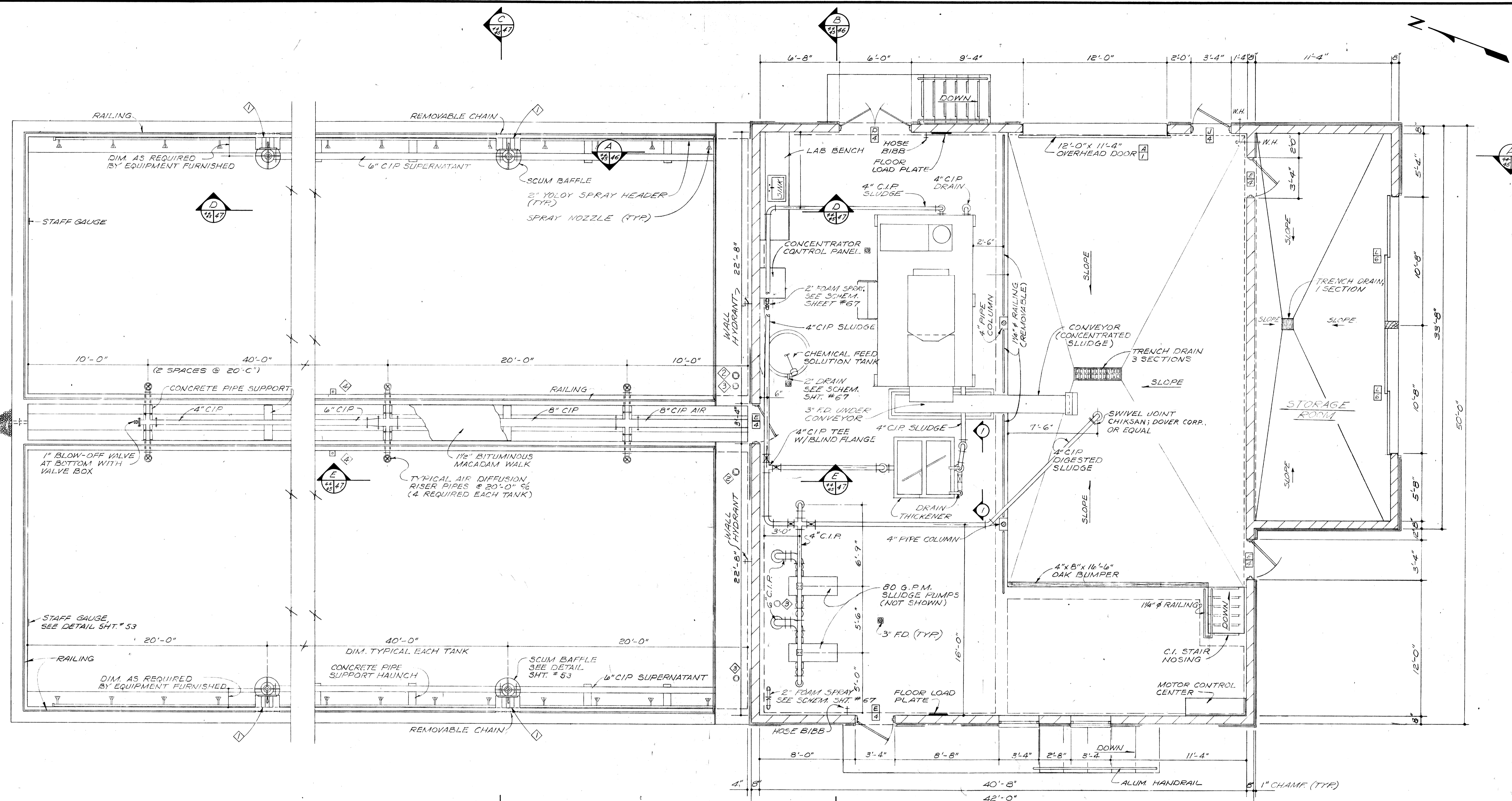


EXHAUST LOUVER DETAIL
SCALE: 3/16" = 1'-0"

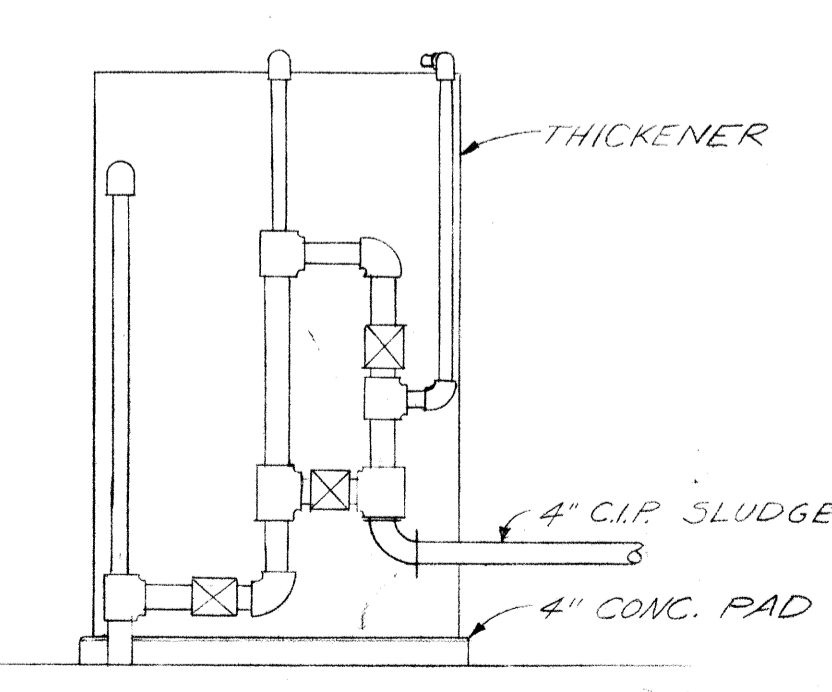
BURGESS & NIPLE, LIMITED CONSULTING ENGINEERS
COLUMBUS, OHIO

DELAWARE COUNTY, OHIO
OLENTANGY ENVIRONMENTAL CONTROL CENTER
CONCENTRATOR BUILDING ELEVATIONS

REVISIONS APRIL, 1975	DRAWN BY WJN TRACED BY DEJH	CHECKED BY APPROVED BY
JUNE, 1973	SCALE: 3/16" = 1'-0"	SHEET 43 OF 75



UPPER PLAN



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

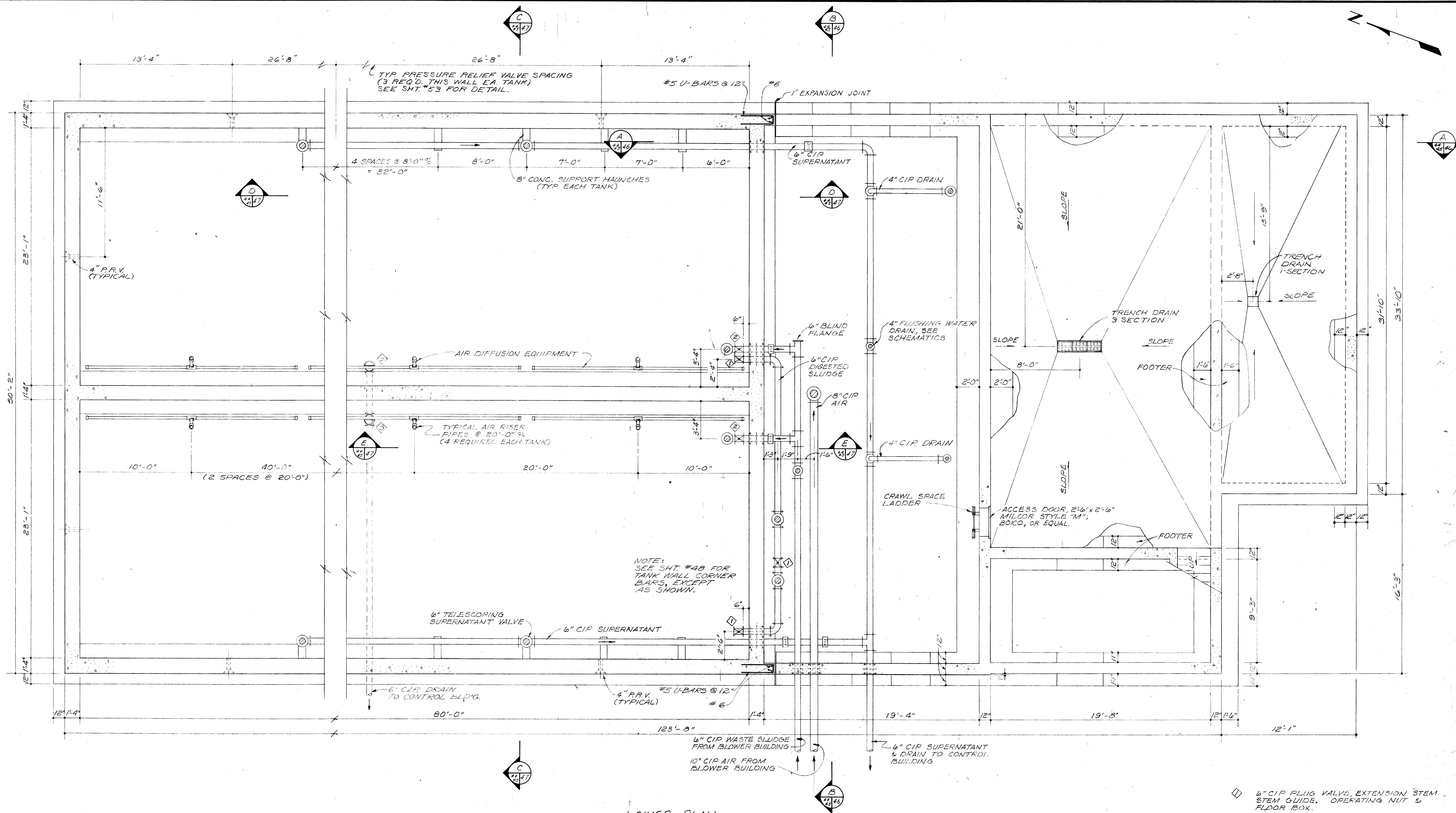
- ① 6" TELESCOPING SUPERNATANT VALVE WITH OFFSET FLOOR STAND.
- ② FLOOR BOX FOR 6" CIP WASTE SLUDGE PLUG VALVE.
- ③ FLOOR BOX FOR 6" CIP DIGESTED SLUDGE PLUG VALVE.
- ④ 6" MUD VALVE WITH EXTENSION STEM GUIDES AND OPERATING NUT.

NOTE: PIPE HANGERS ARE NOT SHOWN. HANGERS SHALL BE ADJUSTABLE WROUGHT IRON, CLEVIS TYPE GRINNELL 2&O; ROSS-WILLOUGHBY 97 OR EQUAL. PROVIDE HANGERS AT ALL FITTING AND MAXIMUM OF 8'-0" ON STRAIGHT RUNS.

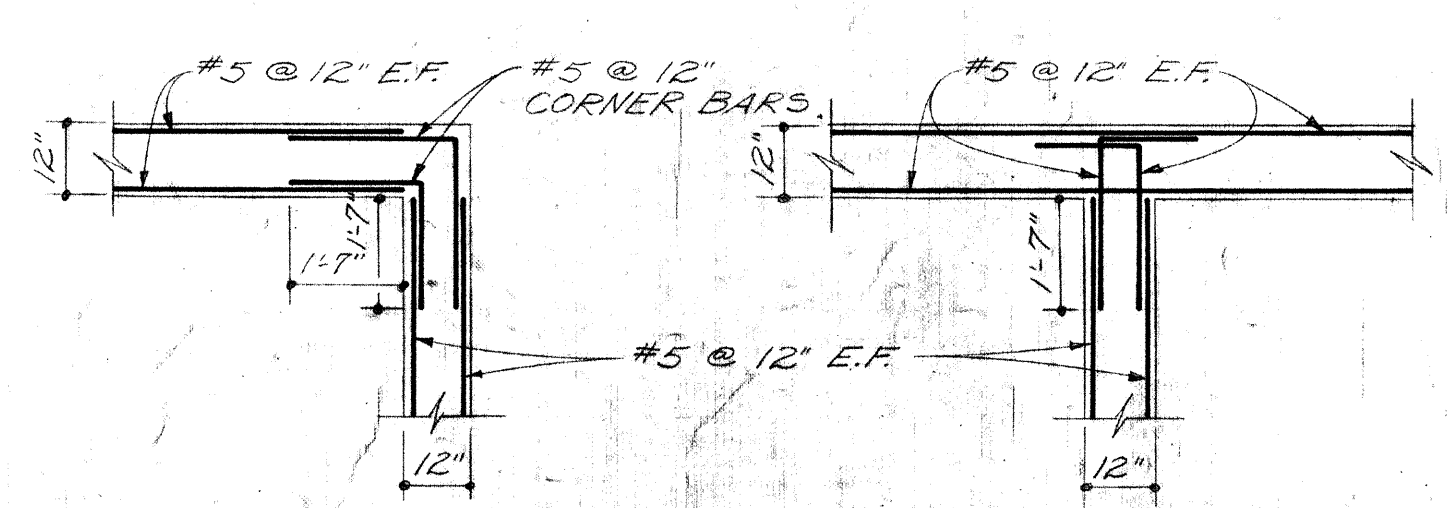
BURGESS & NIPLE, LIMITED CONSULTING ENGINEERS
COLUMBUS, OHIO

DELAWARE COUNTY, OHIO
OLENTANGY ENVIRONMENTAL CONTROL CENTER
CONCENTRATOR BUILDING & AEROBIC DIGESTER TANKS
PLAN

REVISIONS APRIL, 1975	DRAWN BY H.S. TRACED BY DEH	CHECKED BY APPROVED BY
JUNE, 1973	SCALE: 1/4" = 1'-0"	SHEET 44 OF 75



LOWER PLAN



TYP. "L" CORNER BARS
TYP. "TEE" CORNER BARS
CONCENTRATOR BUILDING WALL CORNER BARS
SCALE 3/8" = 1'-0"

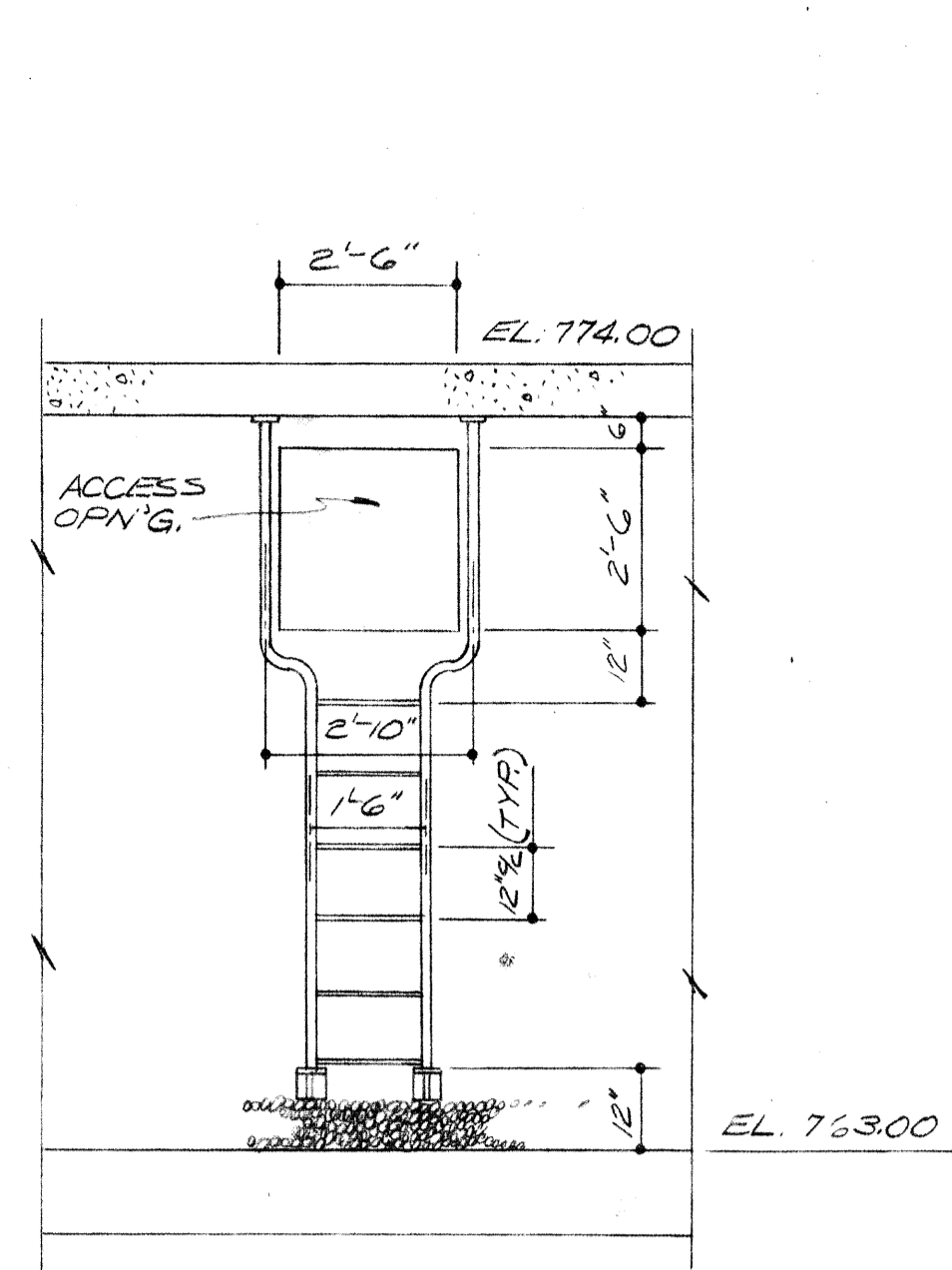
- ◇ 6" CIP PLUG VALVE, EXTENSION STEM, STEM GUIDE, OPERATING NUT & FLOOR BOX.
- ⊕ 6" CIP PLUG VALVE, EXTENSION STEM, OPERATING NUT & FLOOR BOX.
- ⊕ 6" CIP MUD VALVE, EXTENSION STEM & OPERATING NUT.

NOTE:
PIPE HANGERS ARE NOT SHOWN. HANGERS SHALL BE ADJUSTABLE WROUGHT IRON CLEVIS TYPE GRINNEL 260; ROSS-WILLOUGHBY 97 OR EQUAL. PROVIDE HANGERS AT ALL FITTINGS AND MAXIMUM OF 8'-0" ON STRAIGHT RUNS.

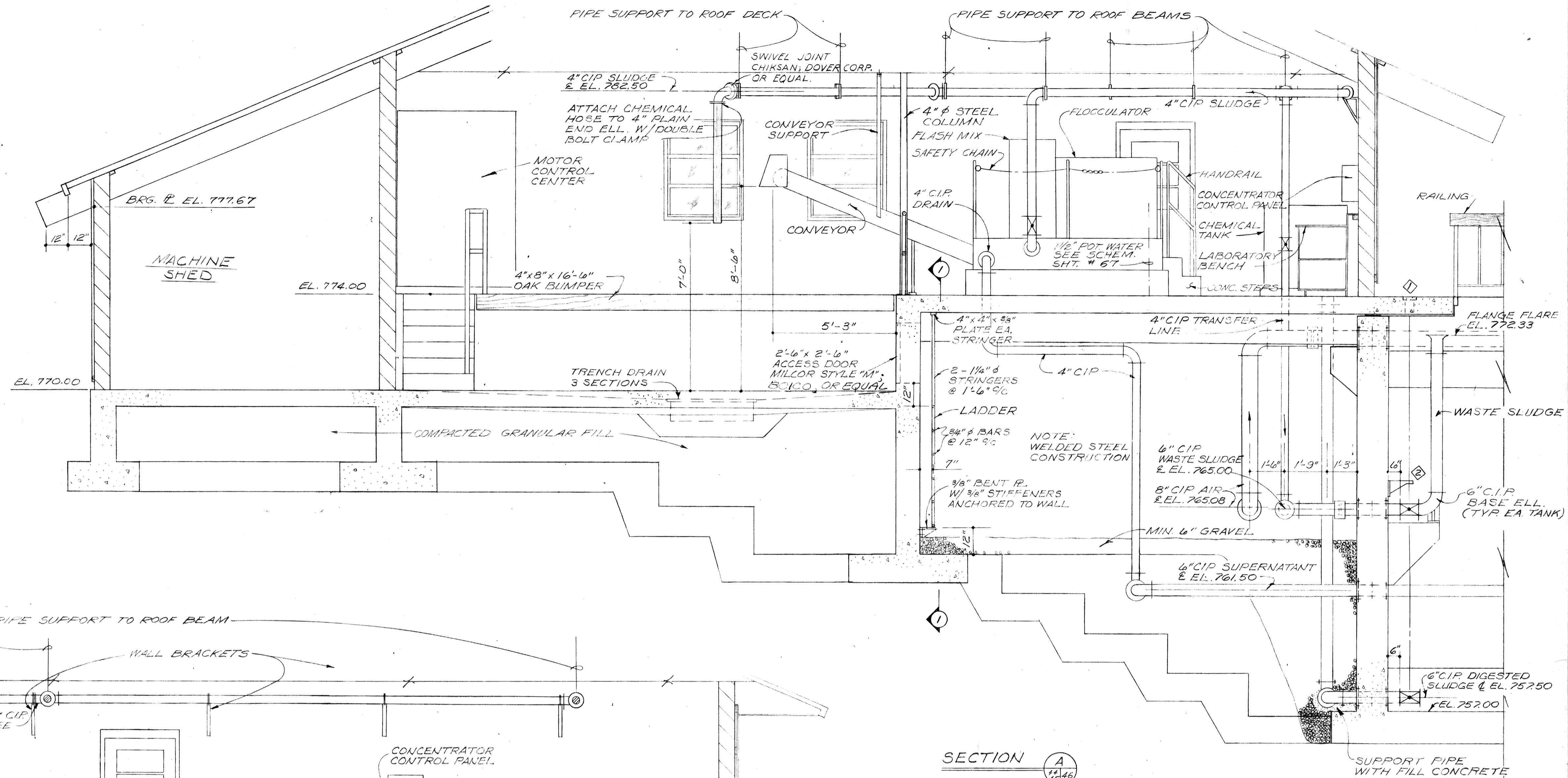
BURGESS & NIPL, LIMITED CONSULTING ENGINEERS
COLUMBUS, OHIO

**DELAWARE COUNTY, OHIO
OLENTANGY ENVIRONMENTAL CONTROL CENTER
CONCENTRATOR BUILDING &
AEROBIC DIGESTER TANKS
PLAN**

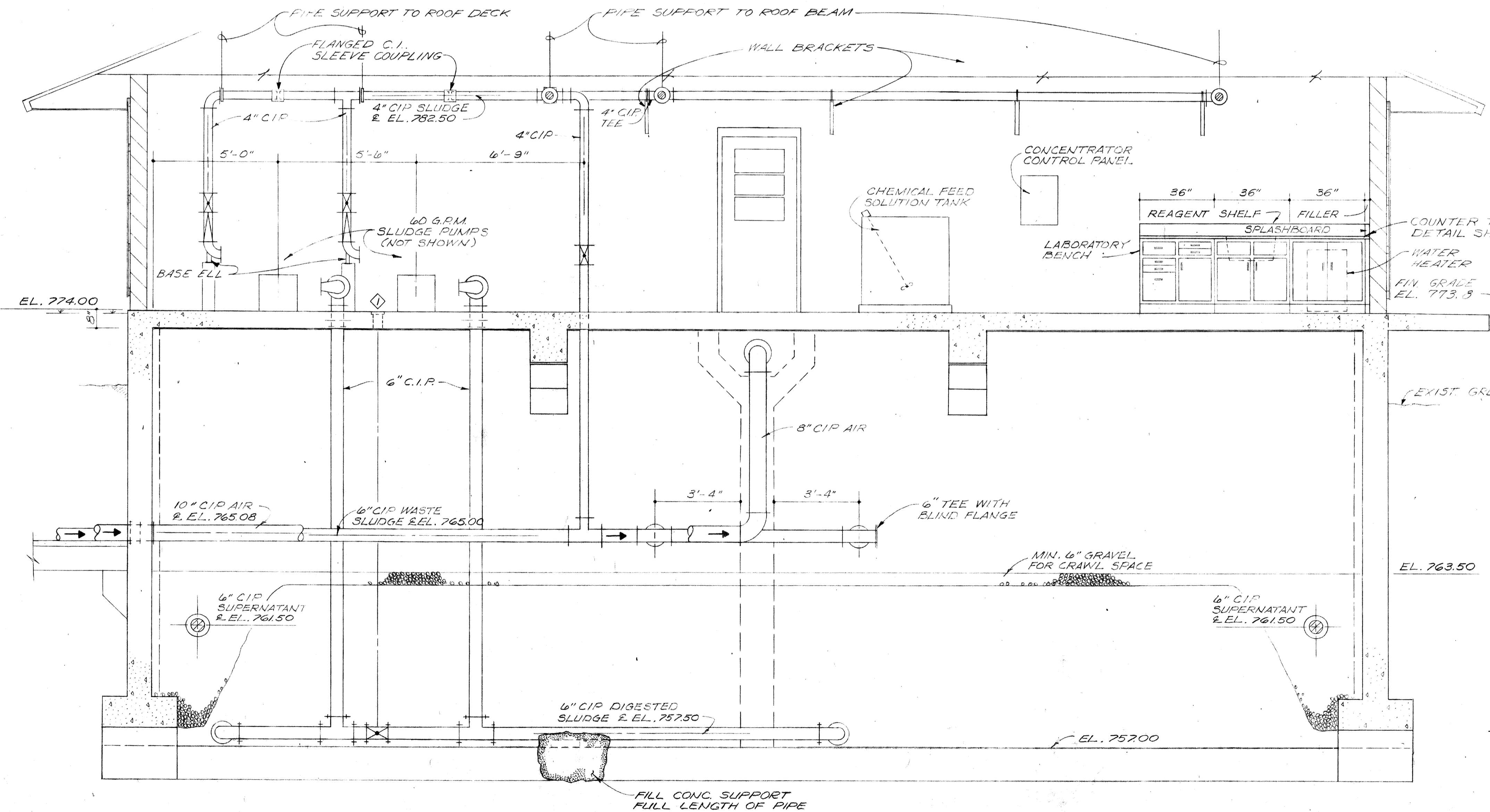
REVISIONS APRIL, 1975	DRAWN BY H. S.	CHECKED BY
JUNE, 1973	TRACED BY DEH	APPROVED BY
SCALE: 1/4" = 1'-0"		SHEET 45 OF 75



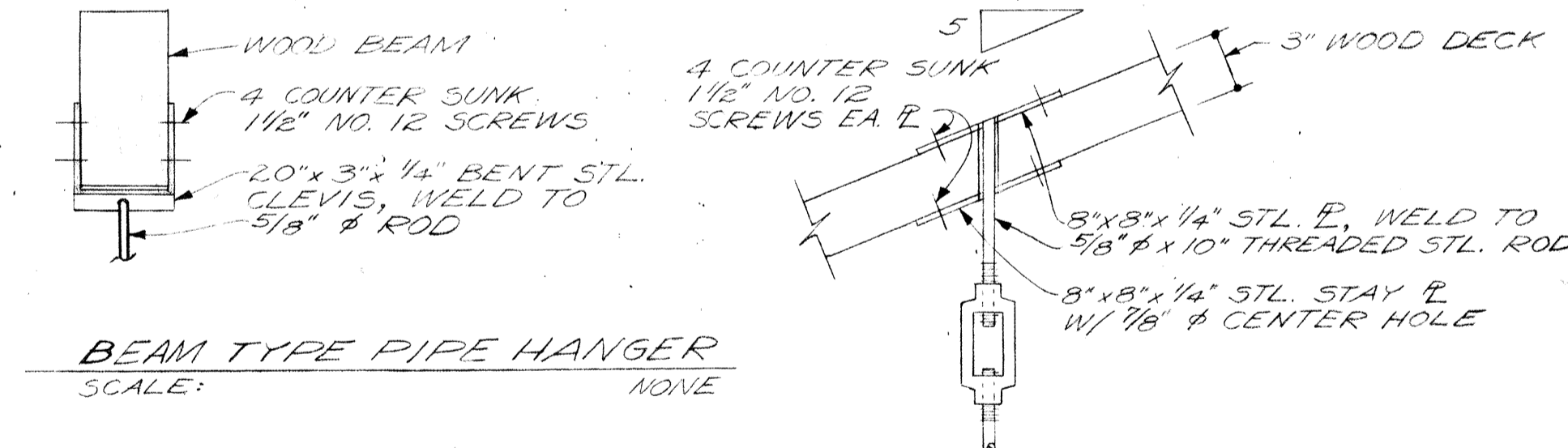
SECTION H
(CRAWL SPACE LADDER)



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

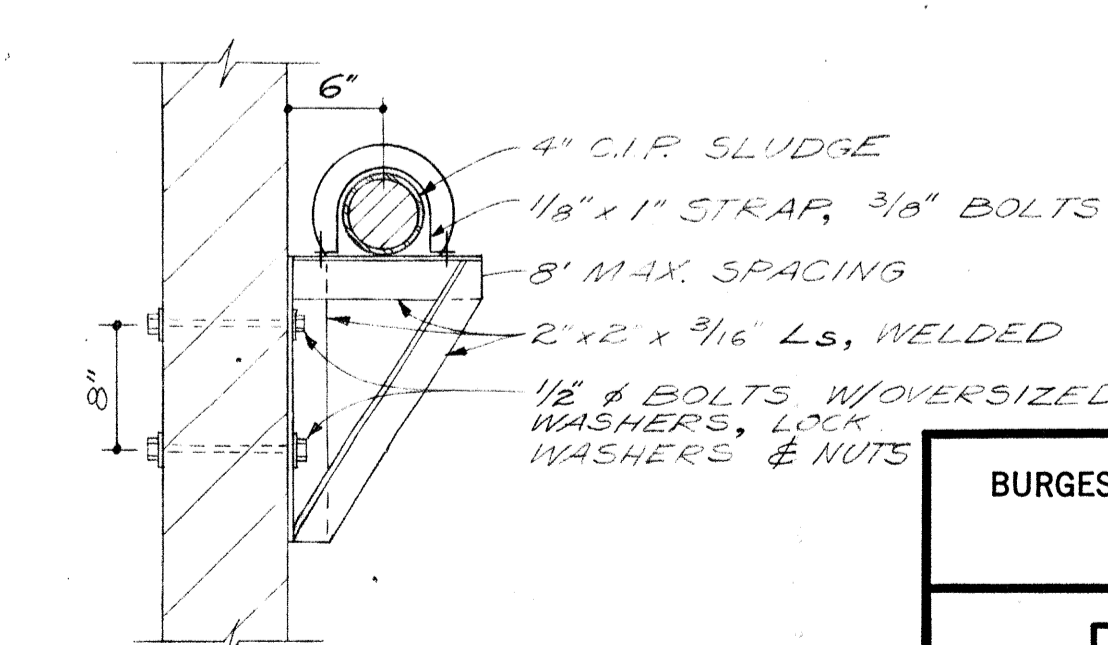


SECTION B
1/8" = 1'-0"



BEAM TYPE PIPE HANGER
SCALE: NONE

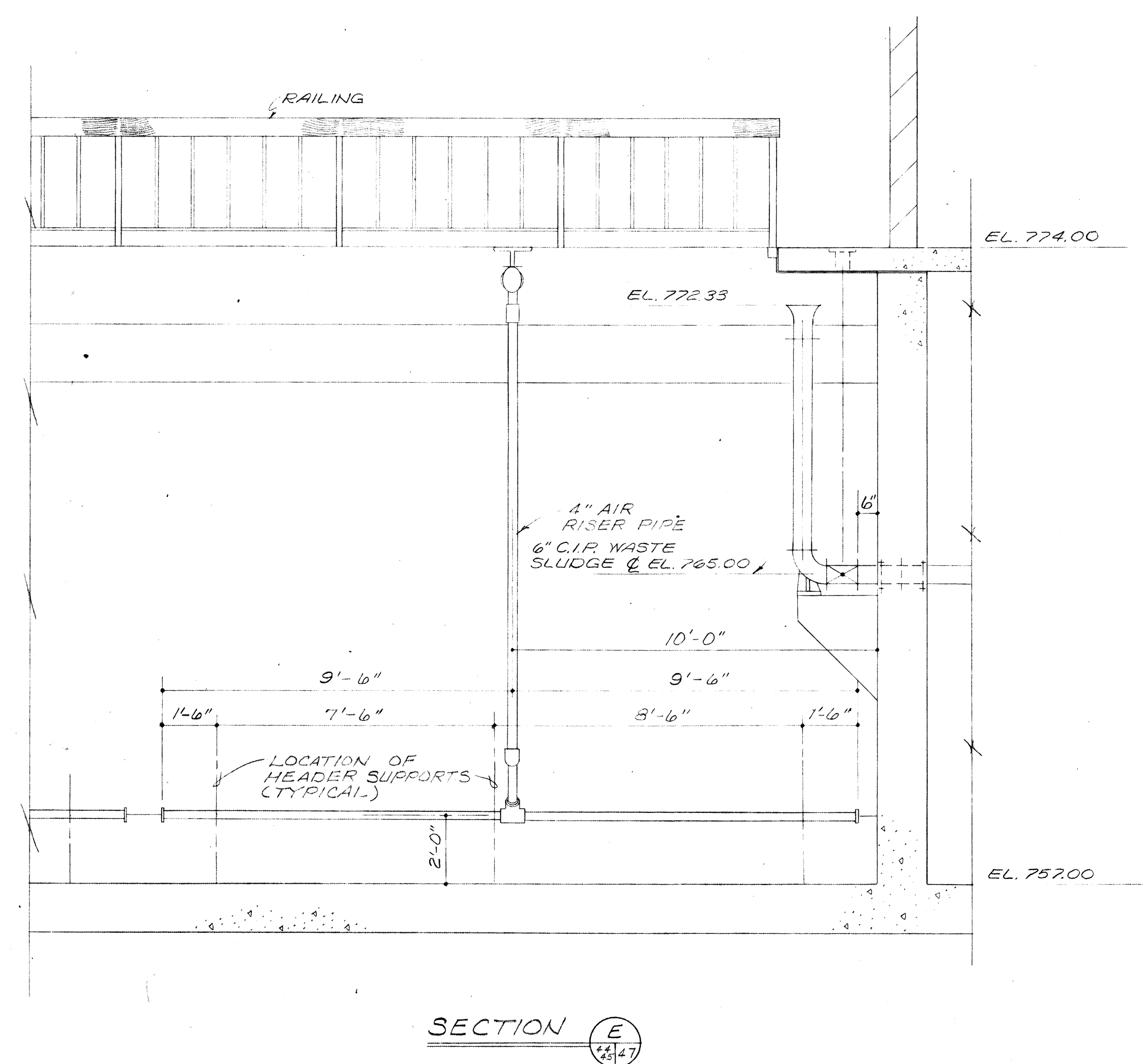
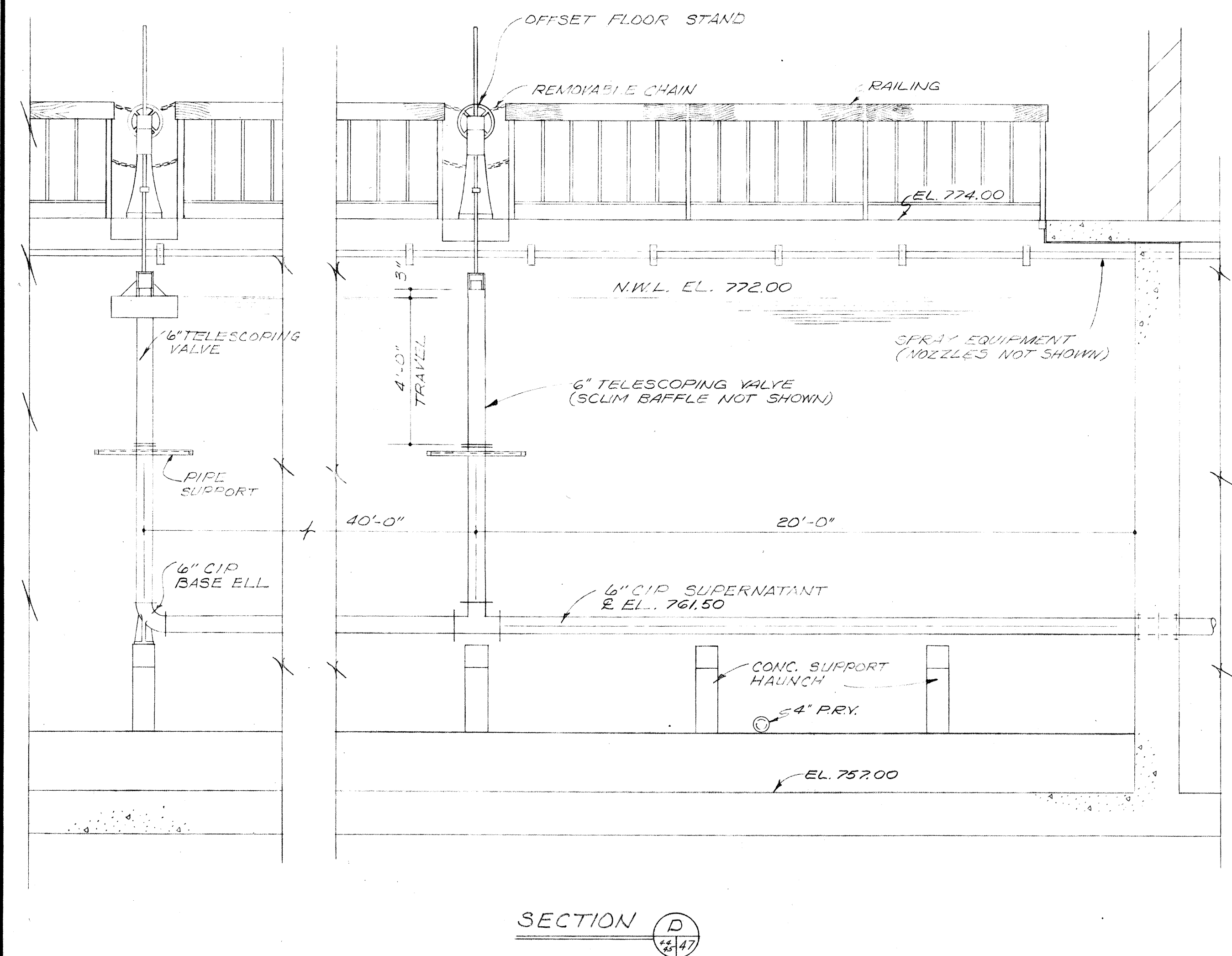
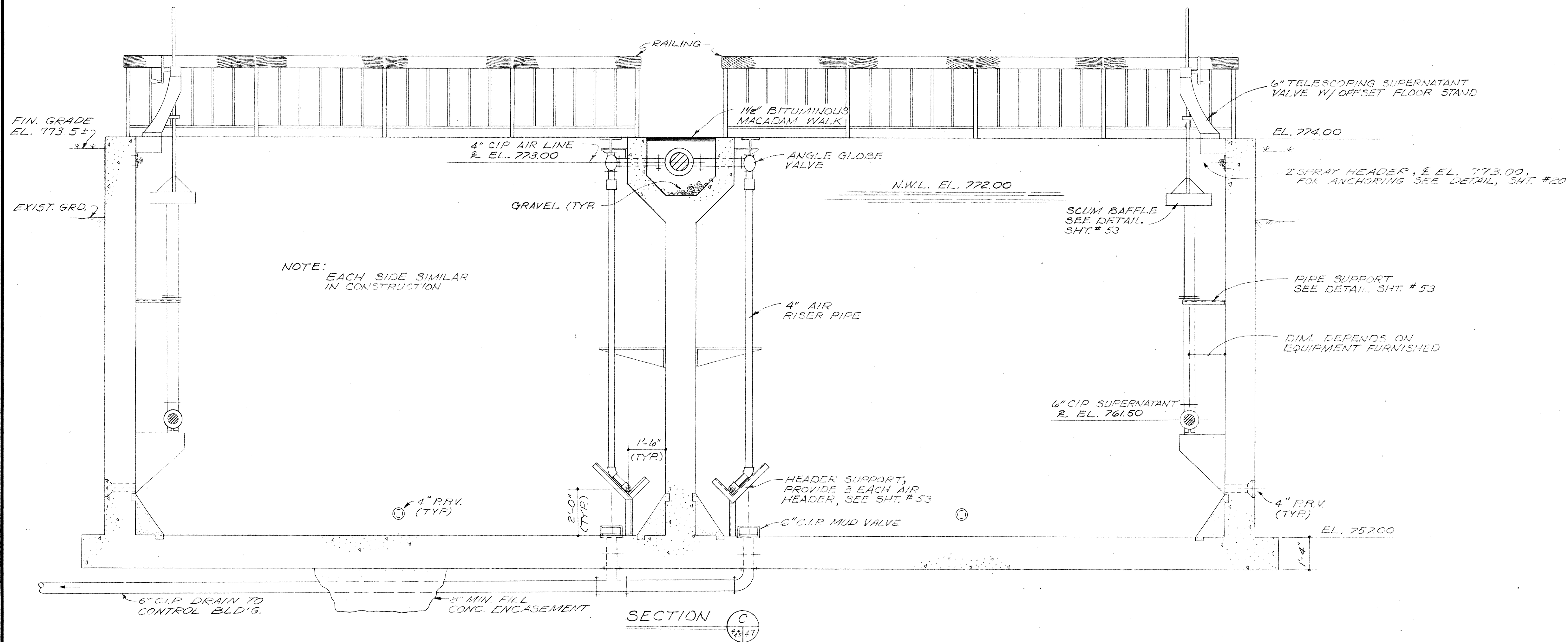
DECK TYPE PIPE HANGER
SCALE: NONE



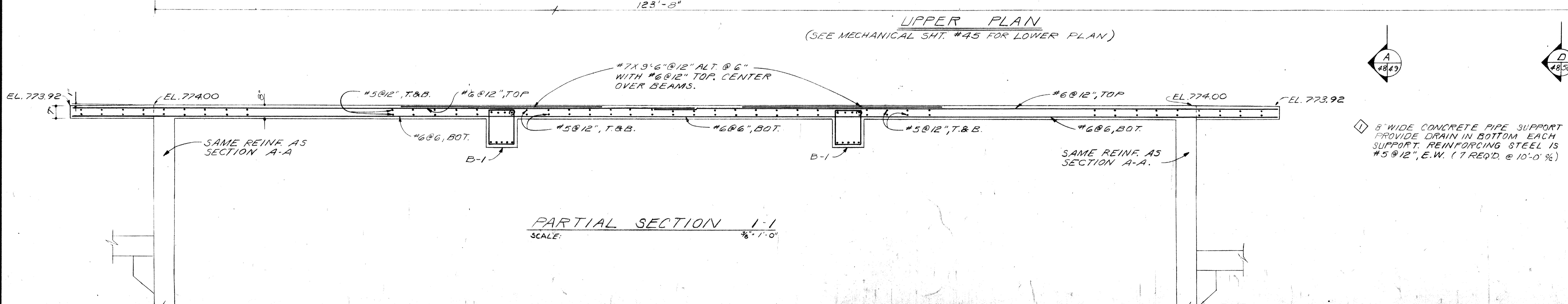
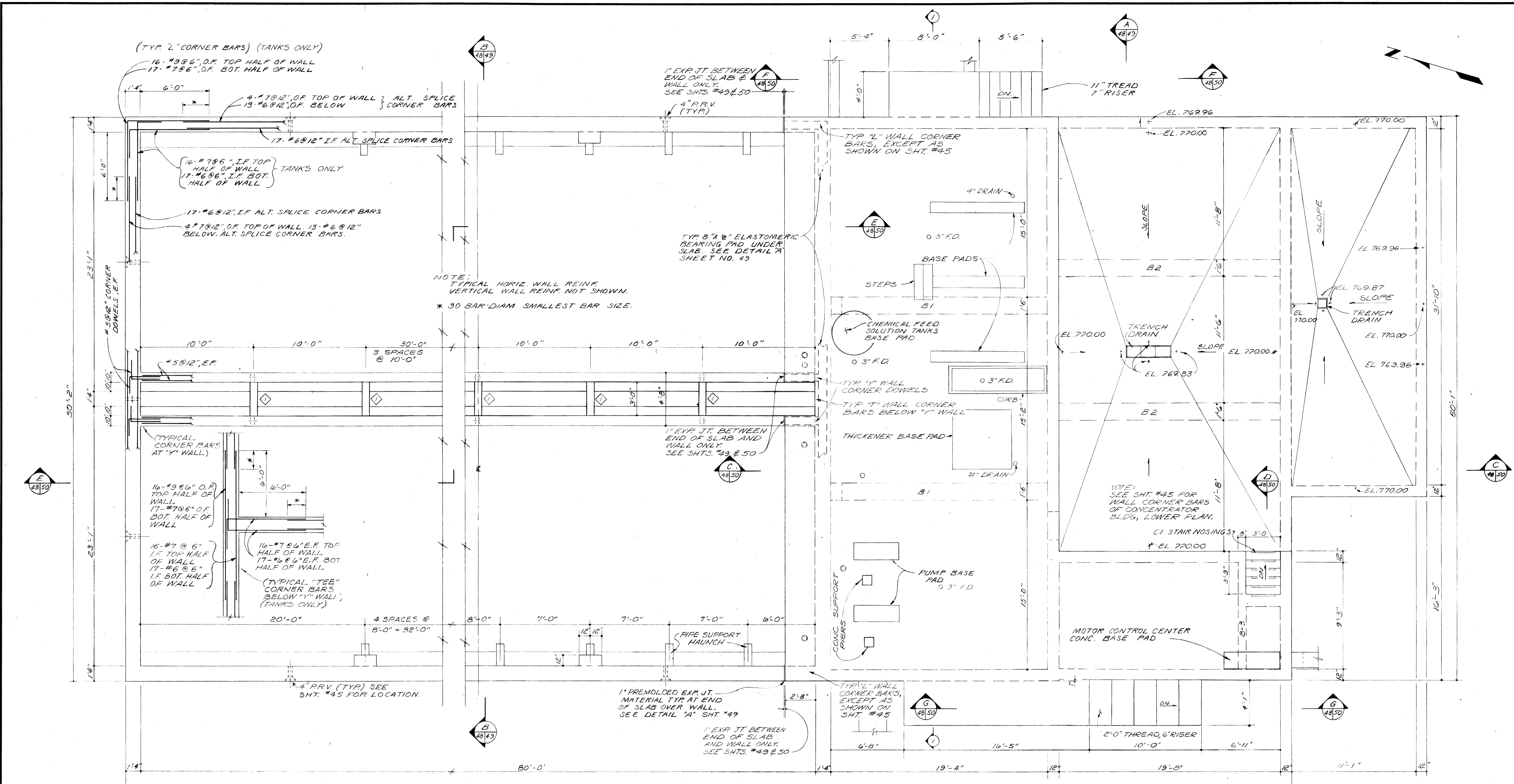
PIPE SUPPORT WALL BRACKET
SCALE: NONE

- ⊠ FLOOR BOX FOR 6" PLUG VALVE.
- ⊠ STEM GUIDE FOR 6" PLUG VALVE ON DIGESTED SLUDGE LINE.

BURGESS & NIPLE, LIMITED		CONSULTING ENGINEERS	
COLUMBUS, OHIO			
DELAWARE COUNTY, OHIO			
OLENTANGY ENVIRONMENTAL CONTROL CENTER			
CONCENTRATOR BUILDING			
SECTIONS			
REVISIONS	DRAWN BY	CHECKED BY	
APRIL, 1975	H.S.		
	TRACED BY	APPROVED BY	
JUNE, 1973	SCALE: 3/8" = 1'-0"	SHEET 46 OF 75	



BURGESS & NIPLE, LIMITED CONSULTING ENGINEERS COLUMBUS, OHIO		
DELAWARE COUNTY, OHIO OLENTANGY ENVIRONMENTAL CONTROL CENTER		
AEROBIC DIGESTER TANKS SECTIONS		
REVISIONS APRIL, 1975	DRAWN BY <i>H.S.</i> TRACED BY <i>DEH</i>	CHECKED BY APPROVED BY
JUNE, 1973	SCALE: 3/8" = 1'-0"	SHEET 47 OF 75



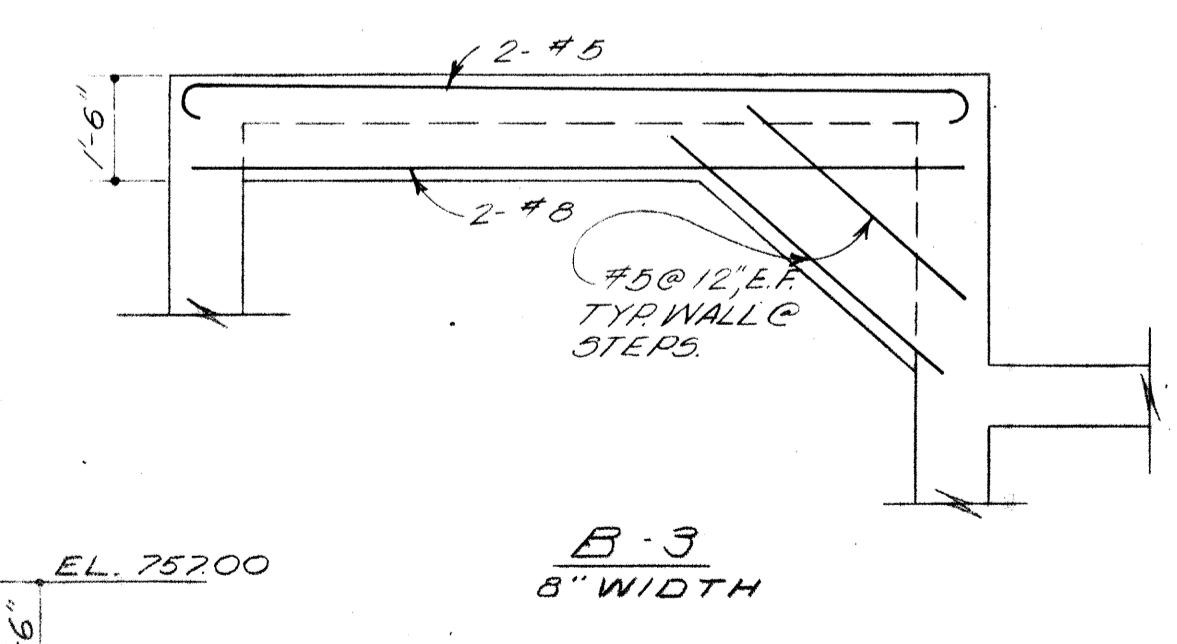
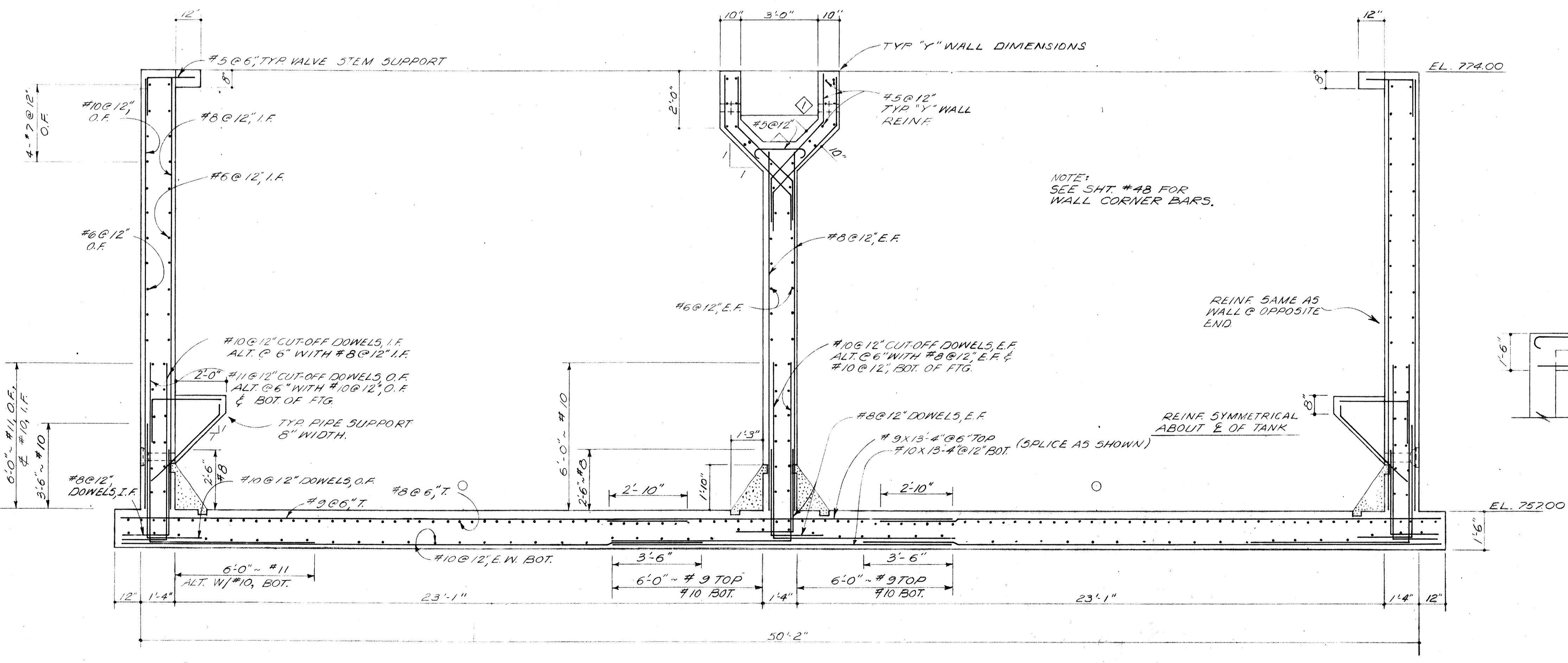
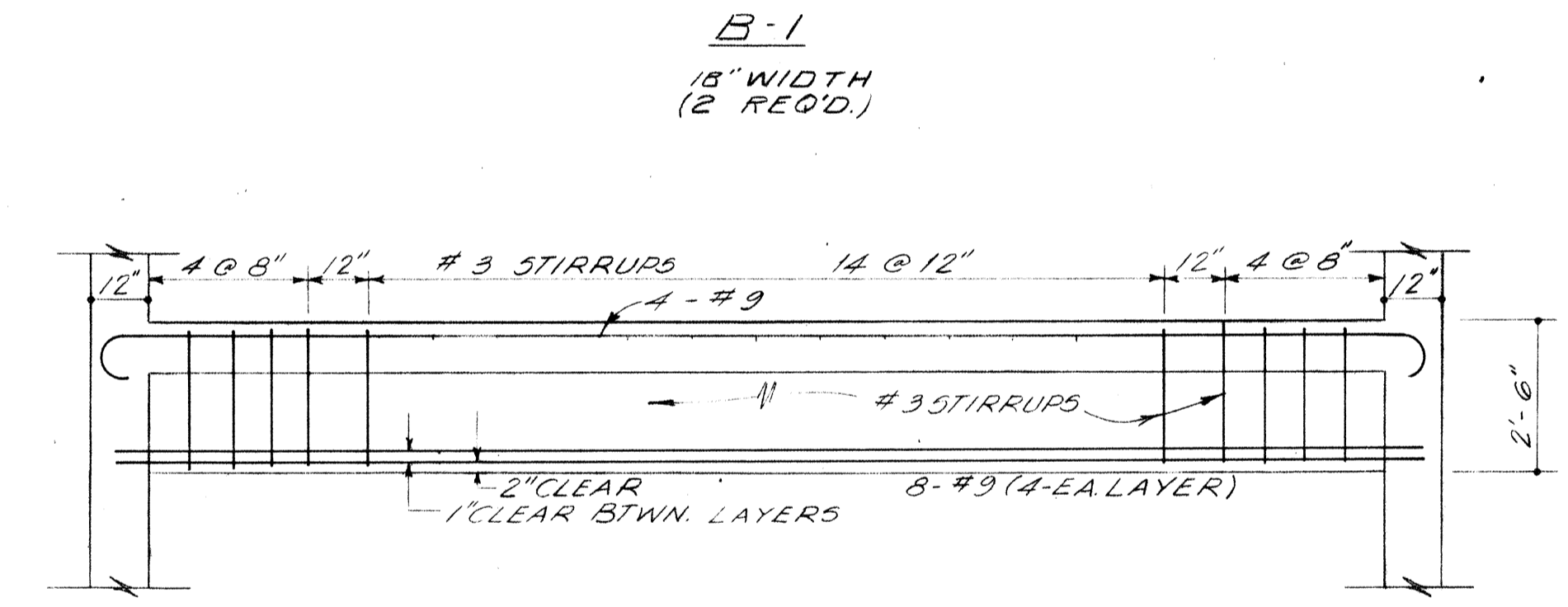
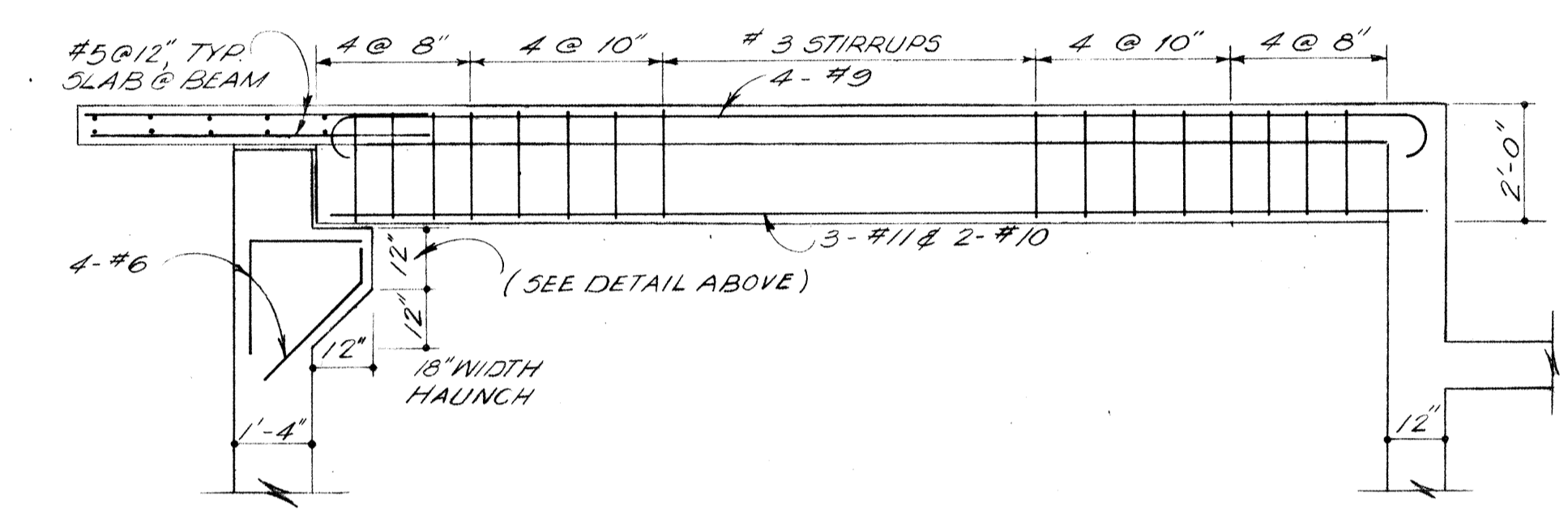
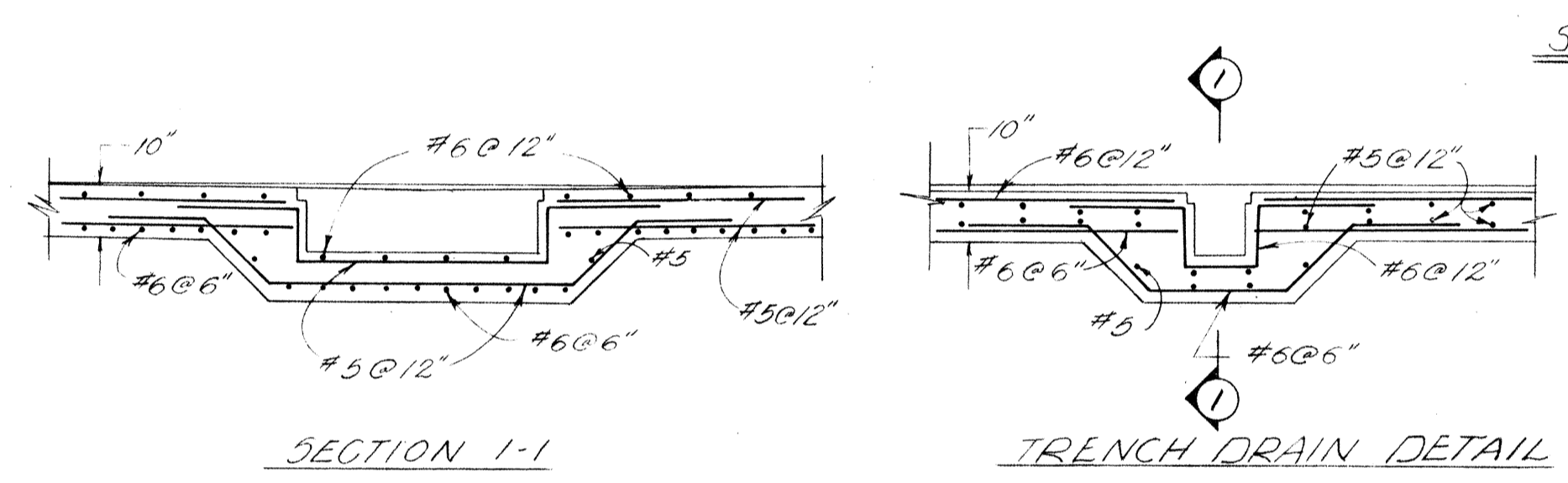
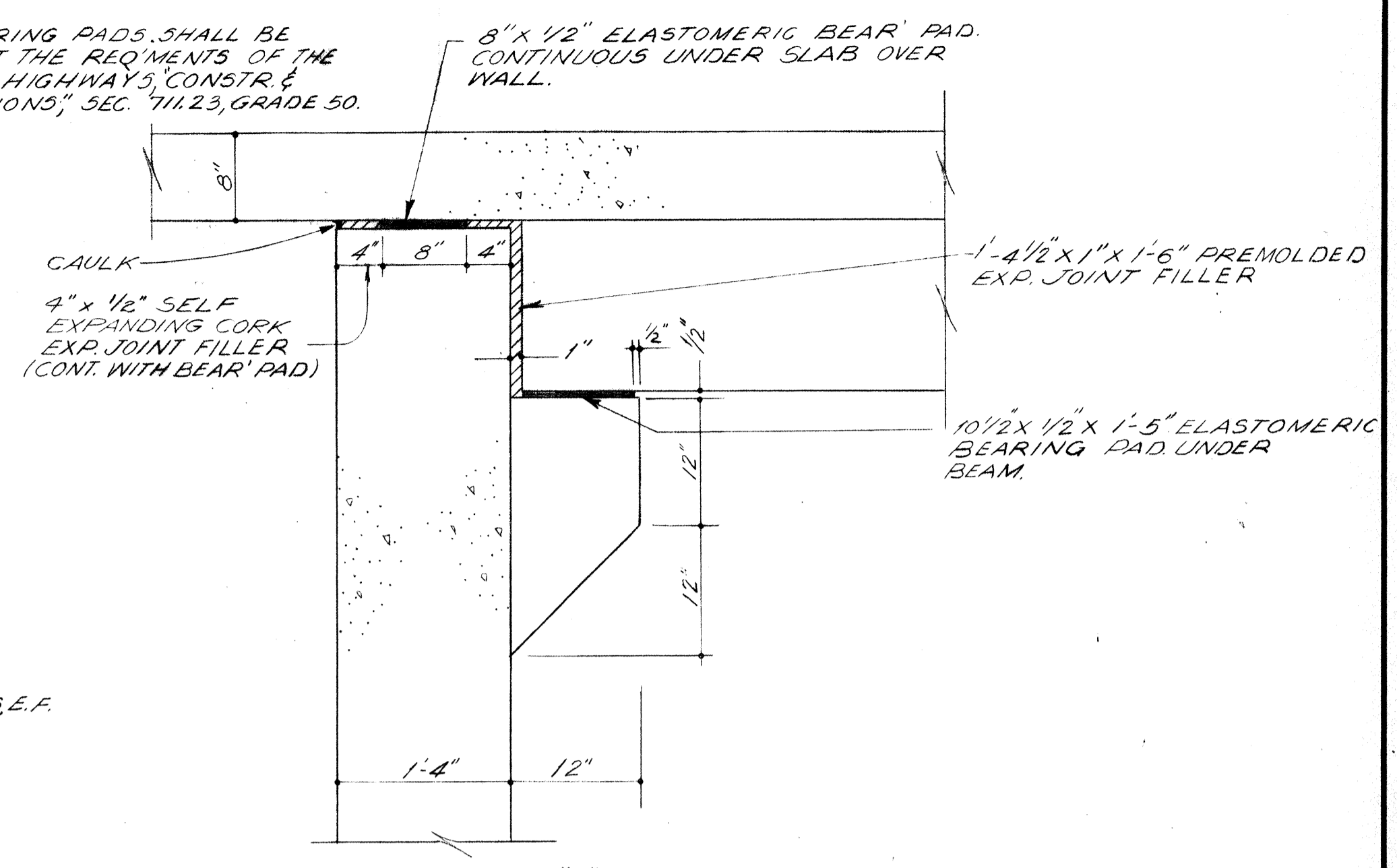
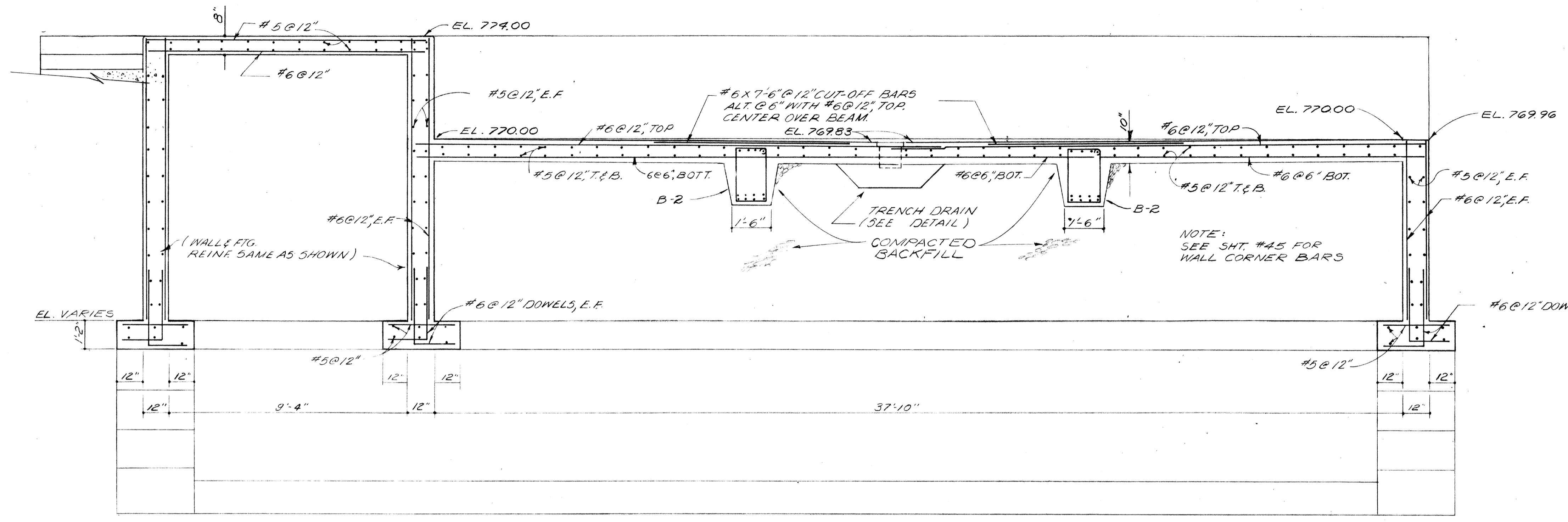
NOTE: HANDRAIL NOT SHOWN SEE MECHANICAL DRAWINGS FOR ARRANGEMENT.

BURGESS & NIPLE, LIMITED CONSULTING ENGINEERS
COLUMBUS, OHIO

DELAWARE COUNTY, OHIO
OLENTANGY ENVIRONMENTAL CONTROL CENTER
CONCRETE & REINFORCING STEEL
CONCENTRATOR BUILDING &
AEROBIC DIGESTER TANKS

REVISIONS APRIL, 1975	DRAWN BY TCC	CHECKED BY
JUNE, 1973	TRACED BY TCC	APPROVED BY
SCALE: 1/4" = 1'-0" UNLESS NOTED		SHEET 48 OF 75

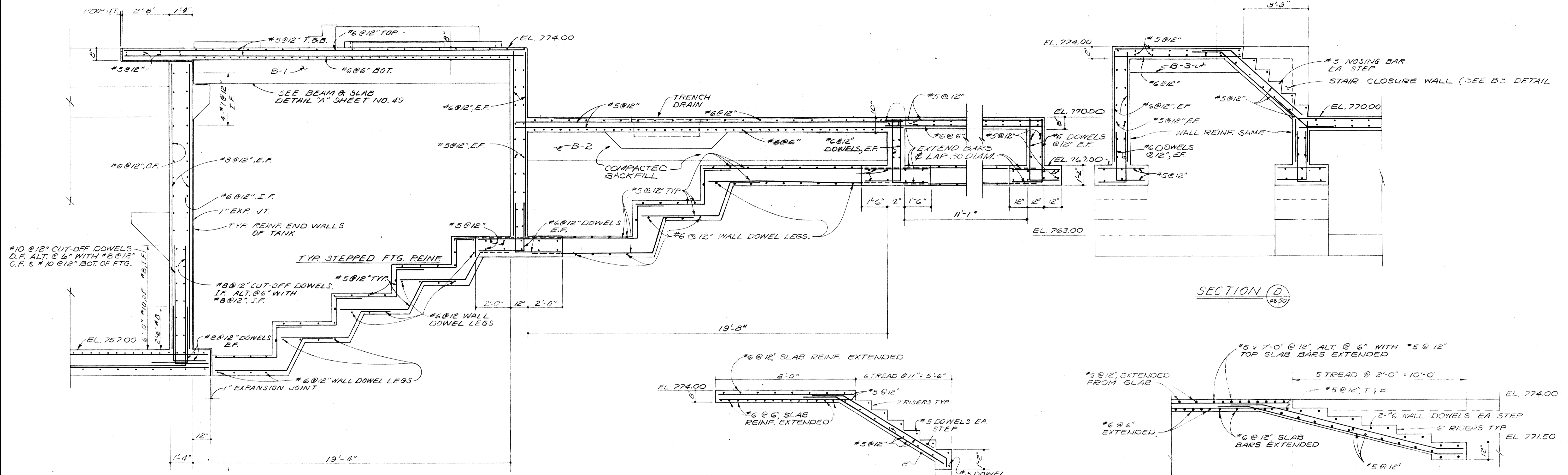
ELASTOMERIC BEARING PADS SHALL BE NEOPRENE & SHALL MEET THE REQMENTS OF THE STATE OF OHIO, DEPT. OF HIGHWAYS, CONSTR. & MATERIALS SPECIFICATIONS, SEC. 111.23, GRADE 50.



BURGESS & NIPLE, LIMITED CONSULTING ENGINEERS
COLUMBUS, OHIO

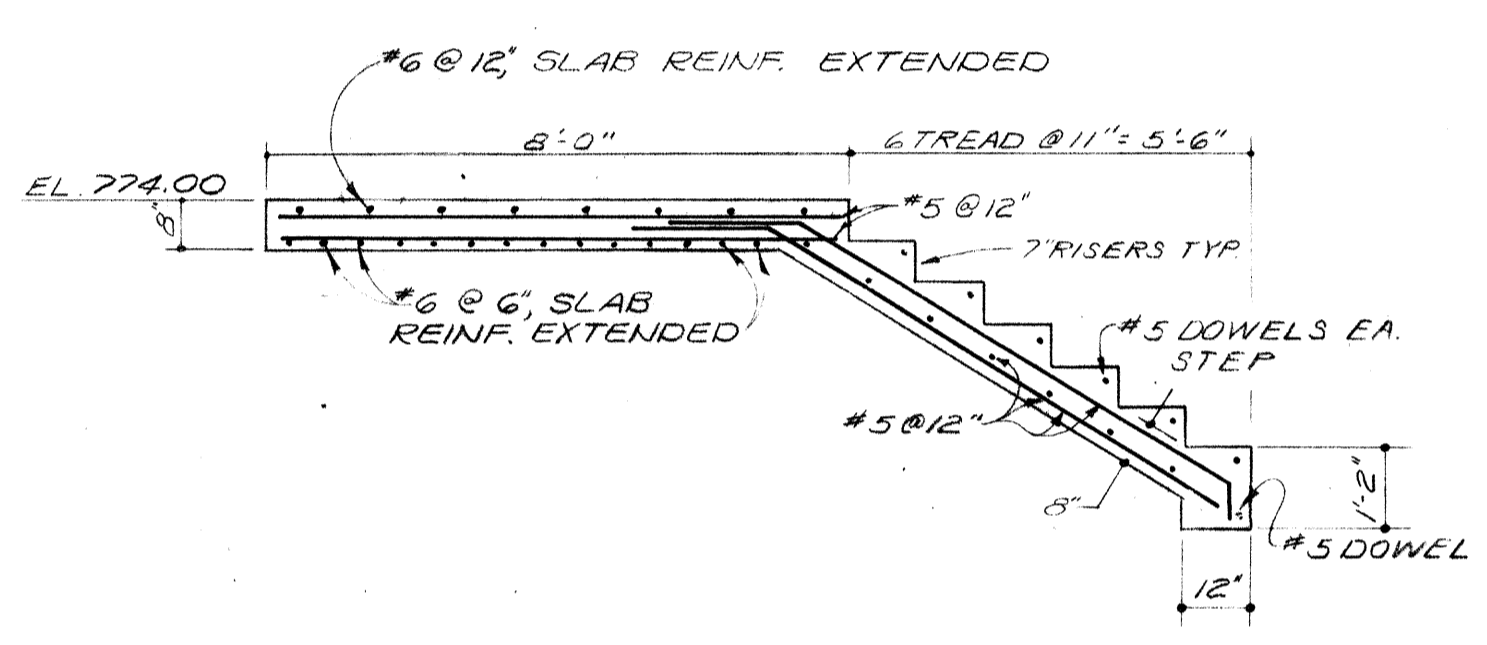
DELAWARE COUNTY, OHIO
OLENTANGY ENVIRONMENTAL CONTROL CENTER
CONCRETE & REINFORCING STEEL
CONCENTRATOR & AEROBIC
DIGESTER TANKS

REVISIONS APRIL, 1975	DRAWN BY TCC TRACED BY TCC	CHECKED BY APPROVED BY
JUNE, 1973	SCALE: 3/8" = 1'-0"	SHEET 49 OF 75

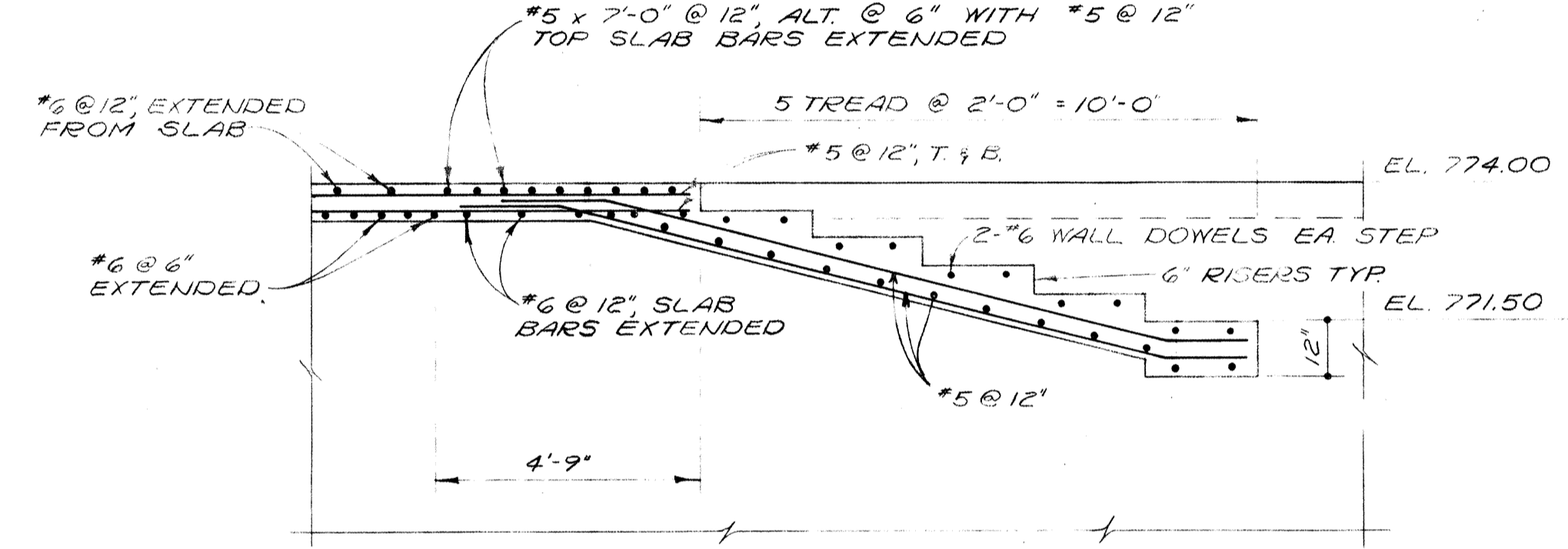


SECTION D
48/50

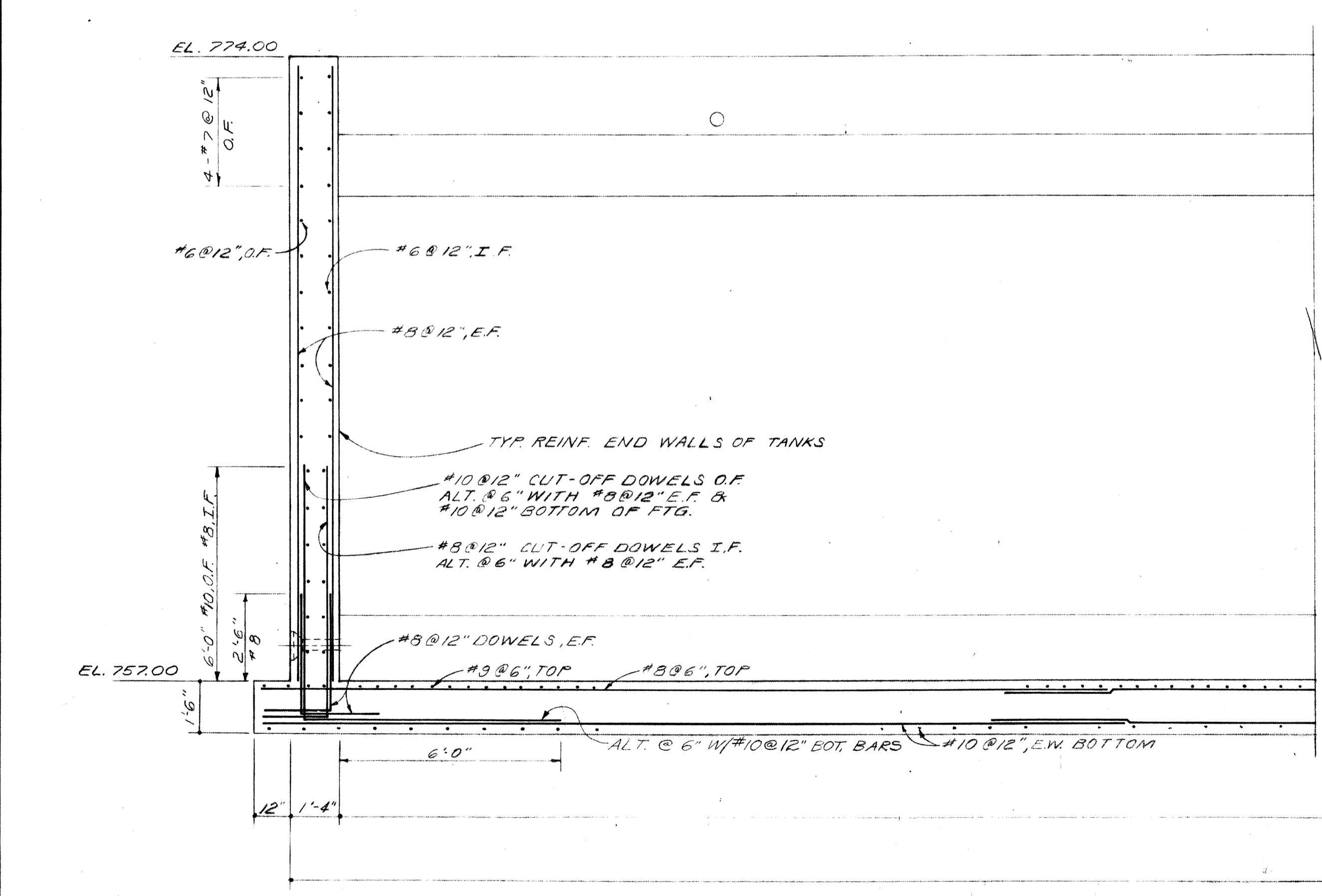
SECTION C
48/50



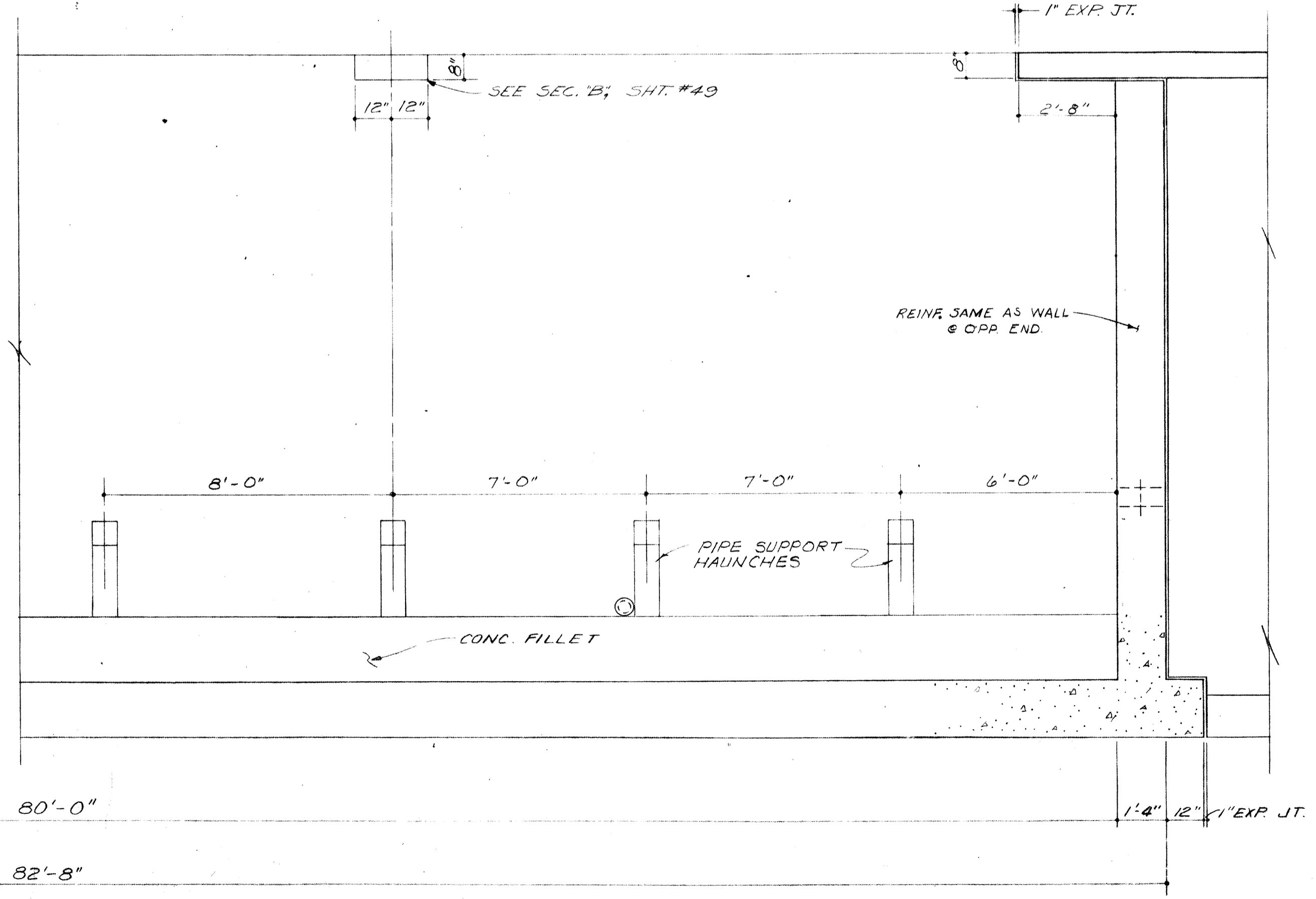
SECTION F
48/50



SECTION G
48/50



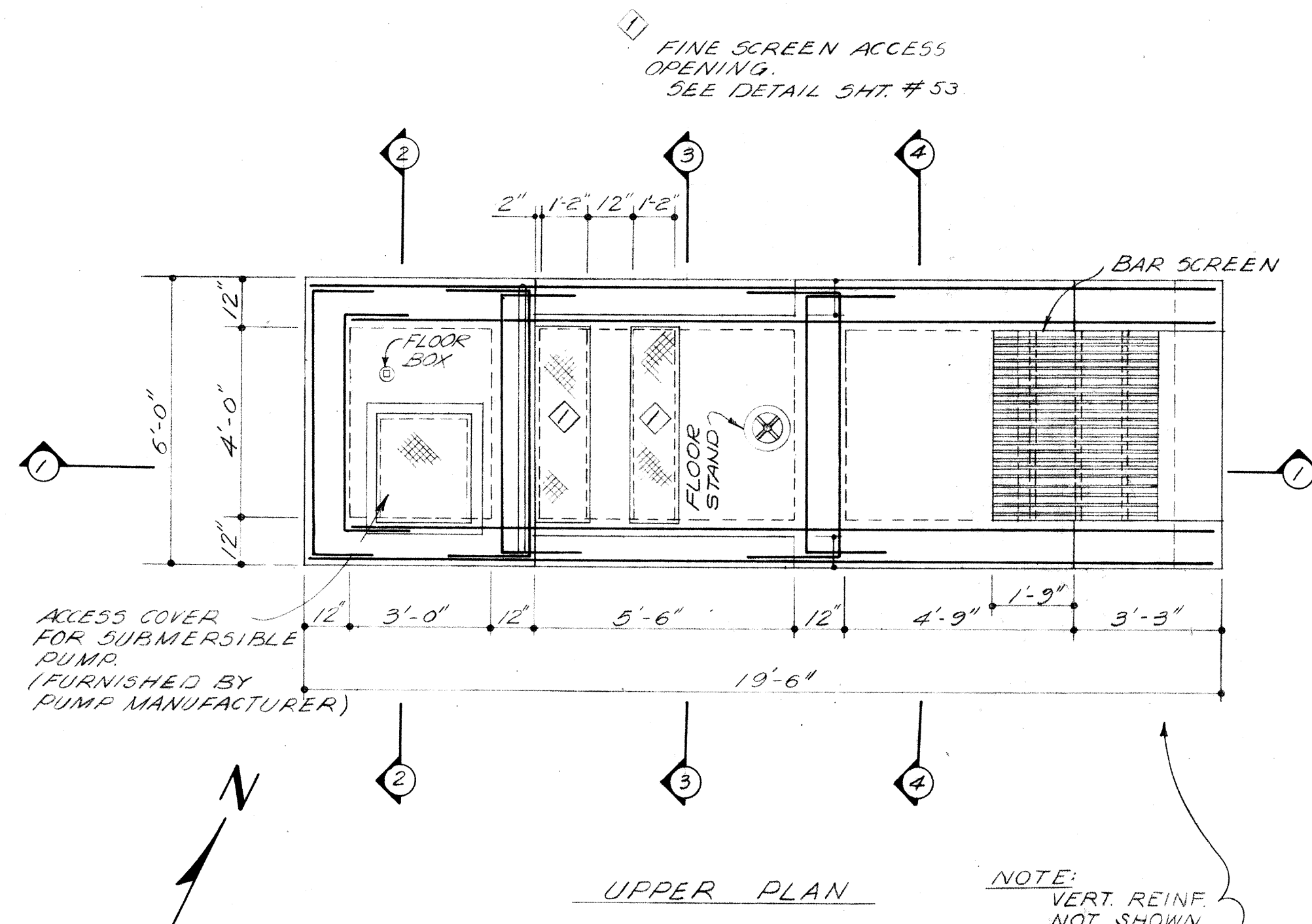
SECTION E
48/50



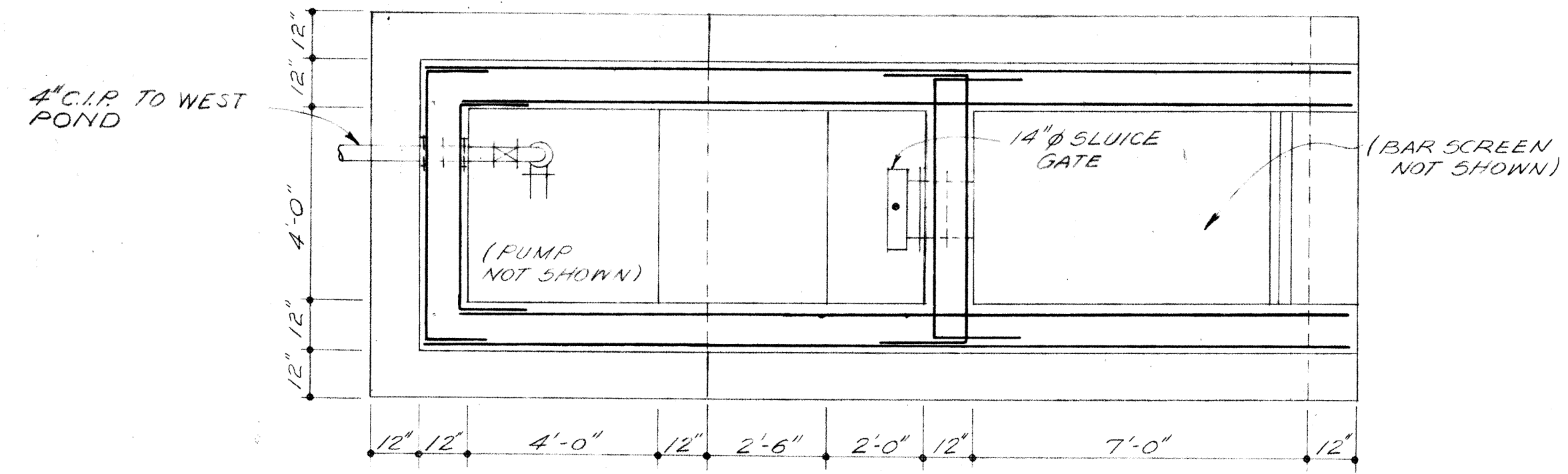
BURGESS & NIPLE, LIMITED CONSULTING ENGINEERS
COLUMBUS, OHIO

DELAWARE COUNTY, OHIO
OLENTANGY ENVIRONMENTAL CONTROL CENTER
CONCRETE & REINFORCING STEEL
CONCENTRATOR BUILDING &
AEROBIC DIGESTER TANKS

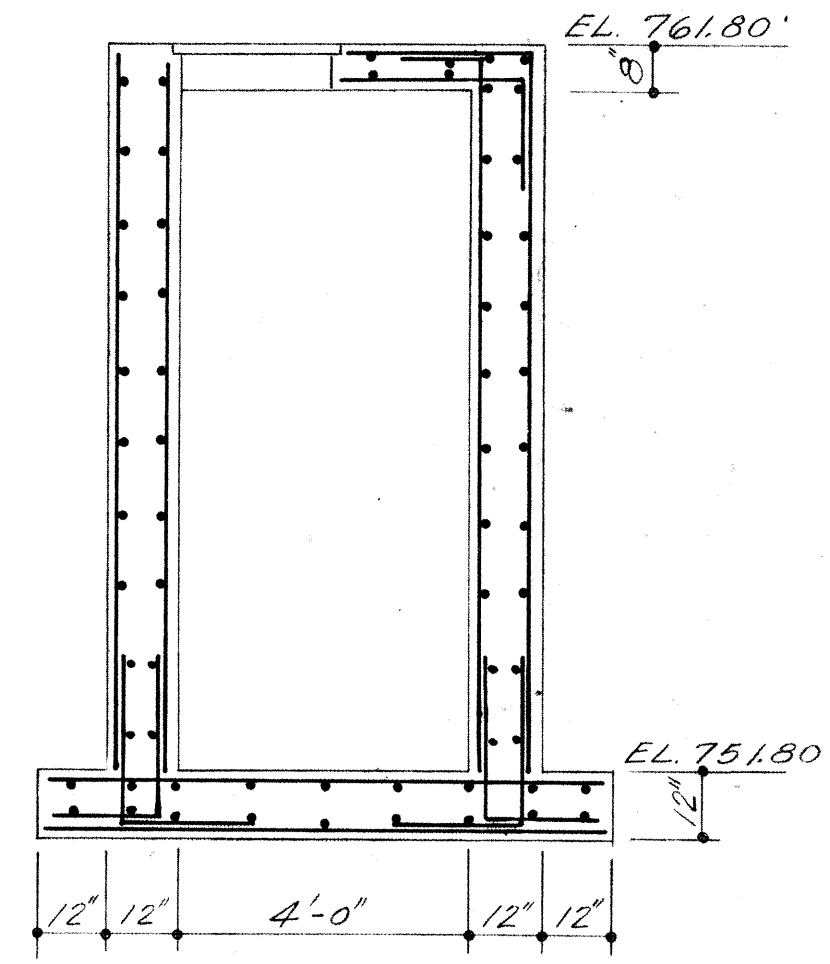
REVISIONS APRIL, 1975	DRAWN BY A.S.	CHECKED BY
JUNE, 1973	TRACED BY TCC	APPROVED BY
SCALE: 3/8" = 1'-0"		SHEET 50 OF 75



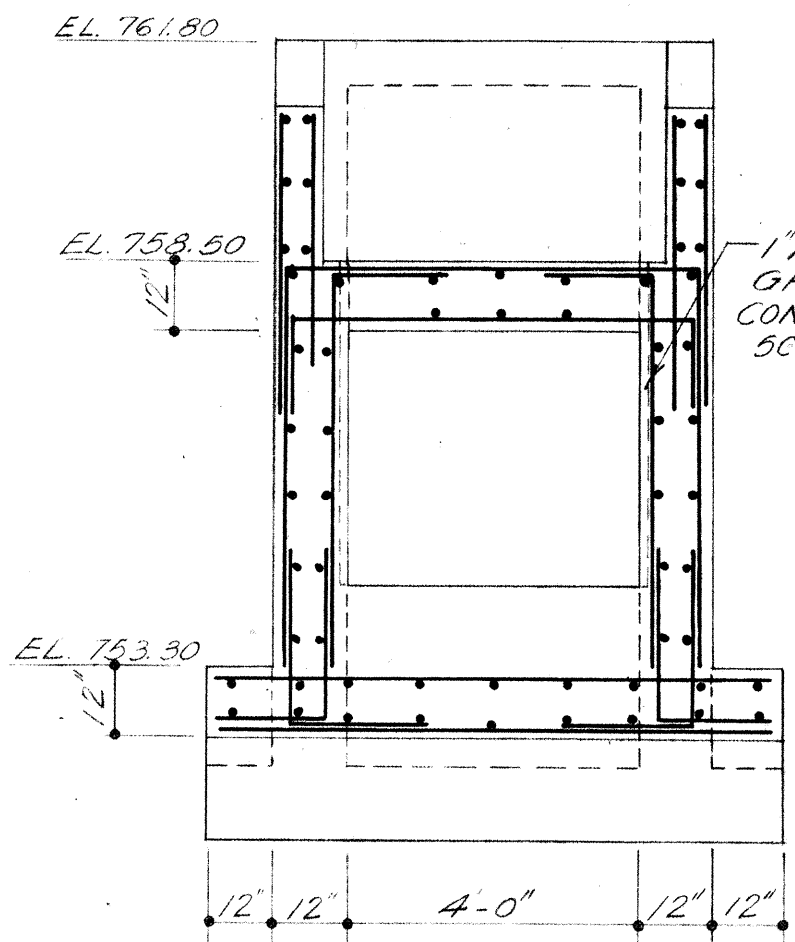
UPPER PLAN



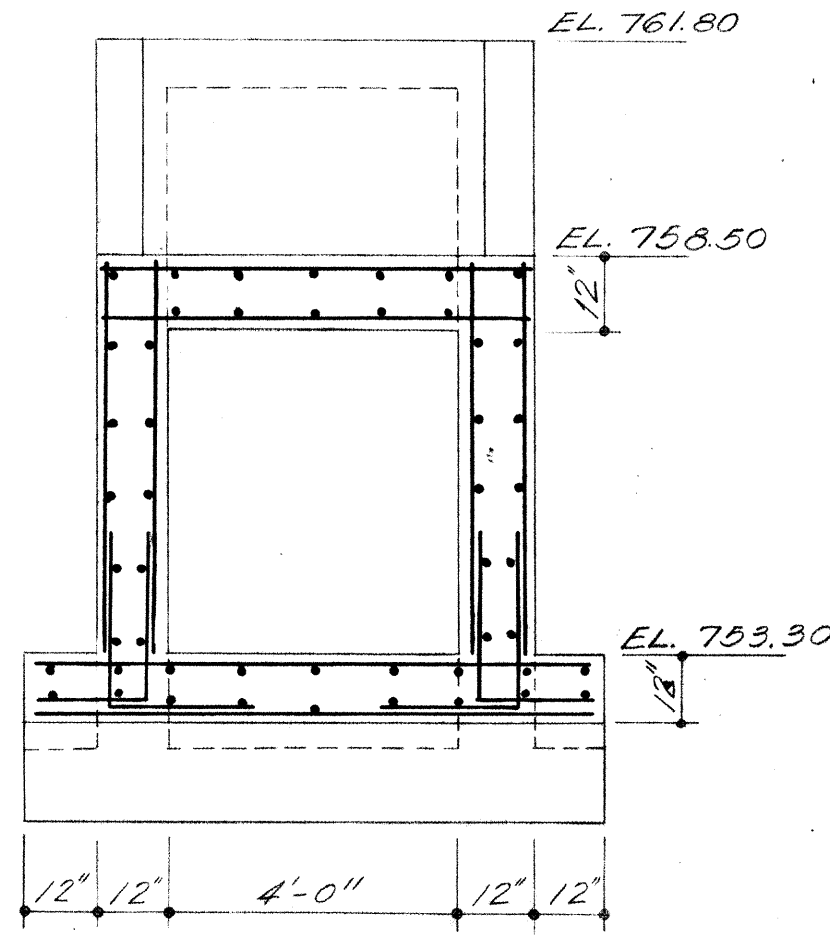
LOWER PLAN



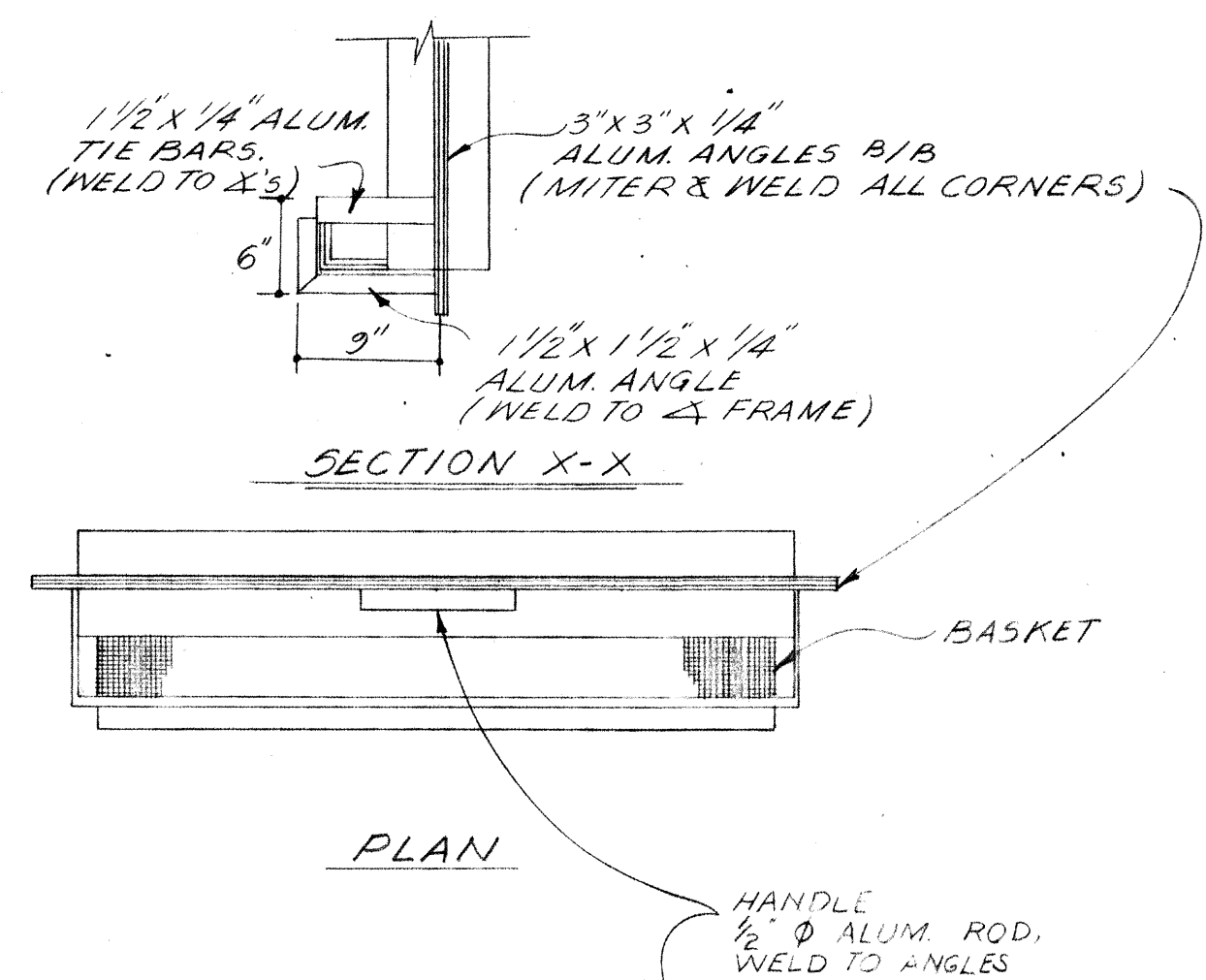
SECTION 2-2



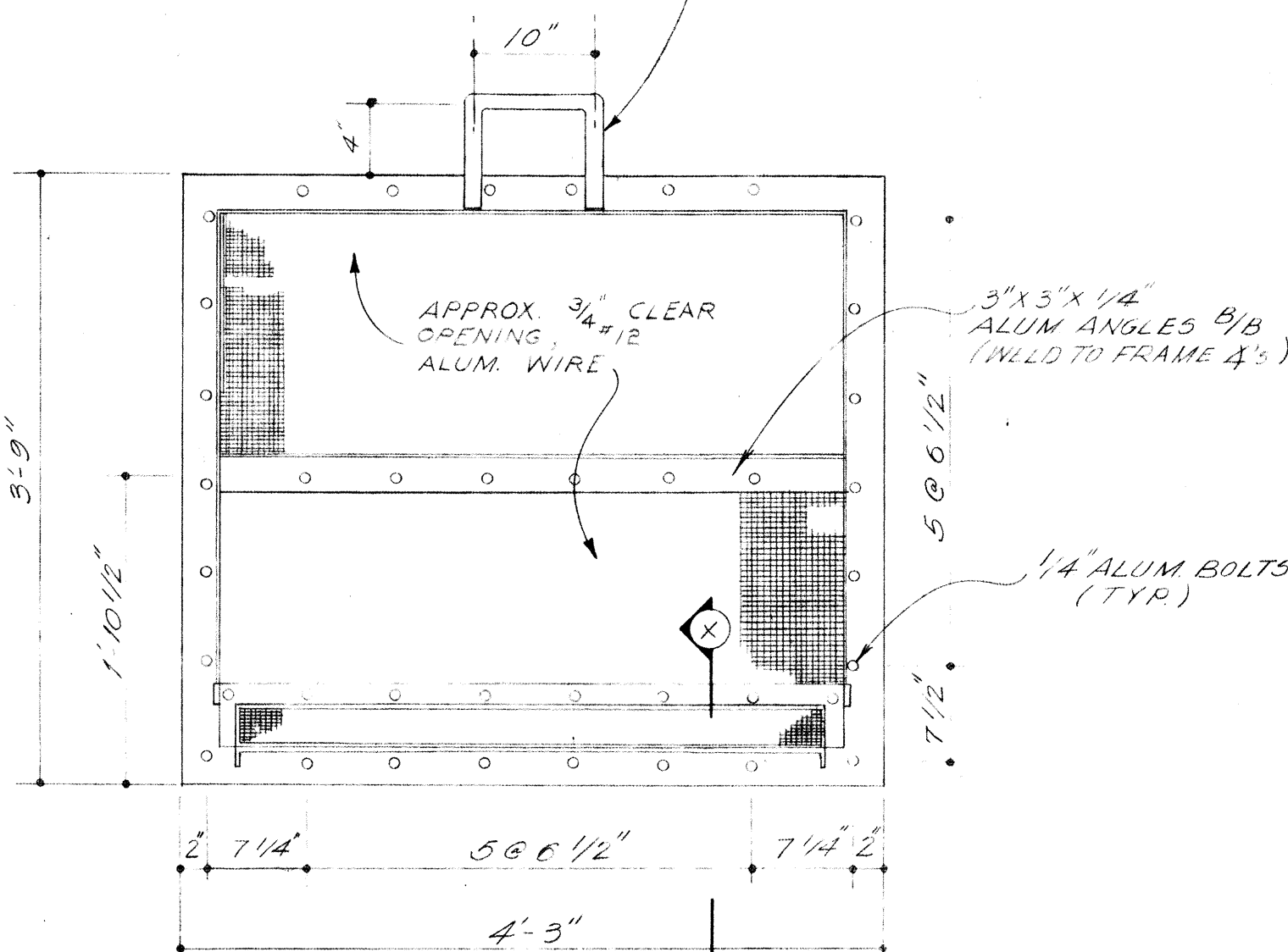
SECTION 3-3



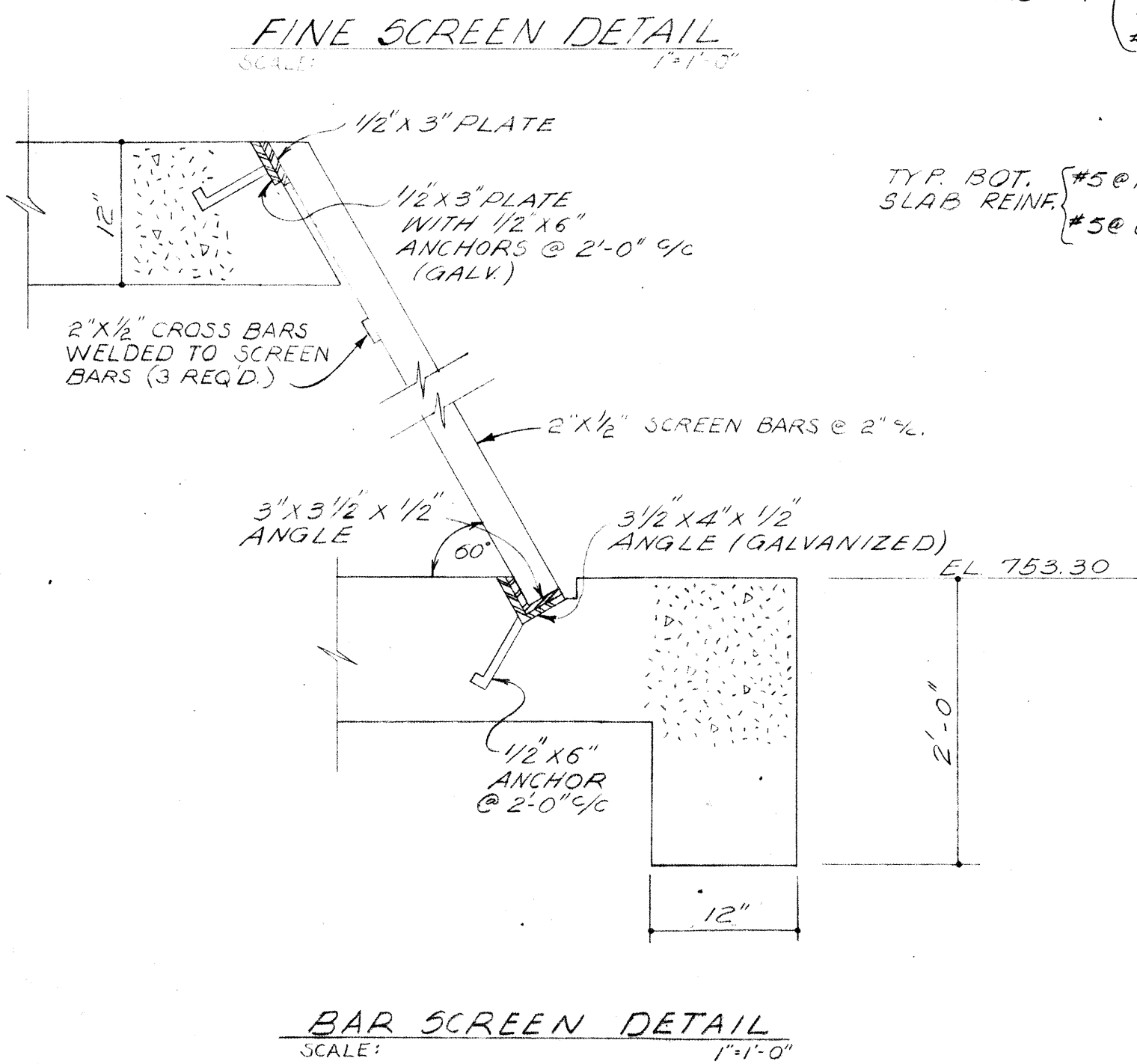
SECTION 4-4



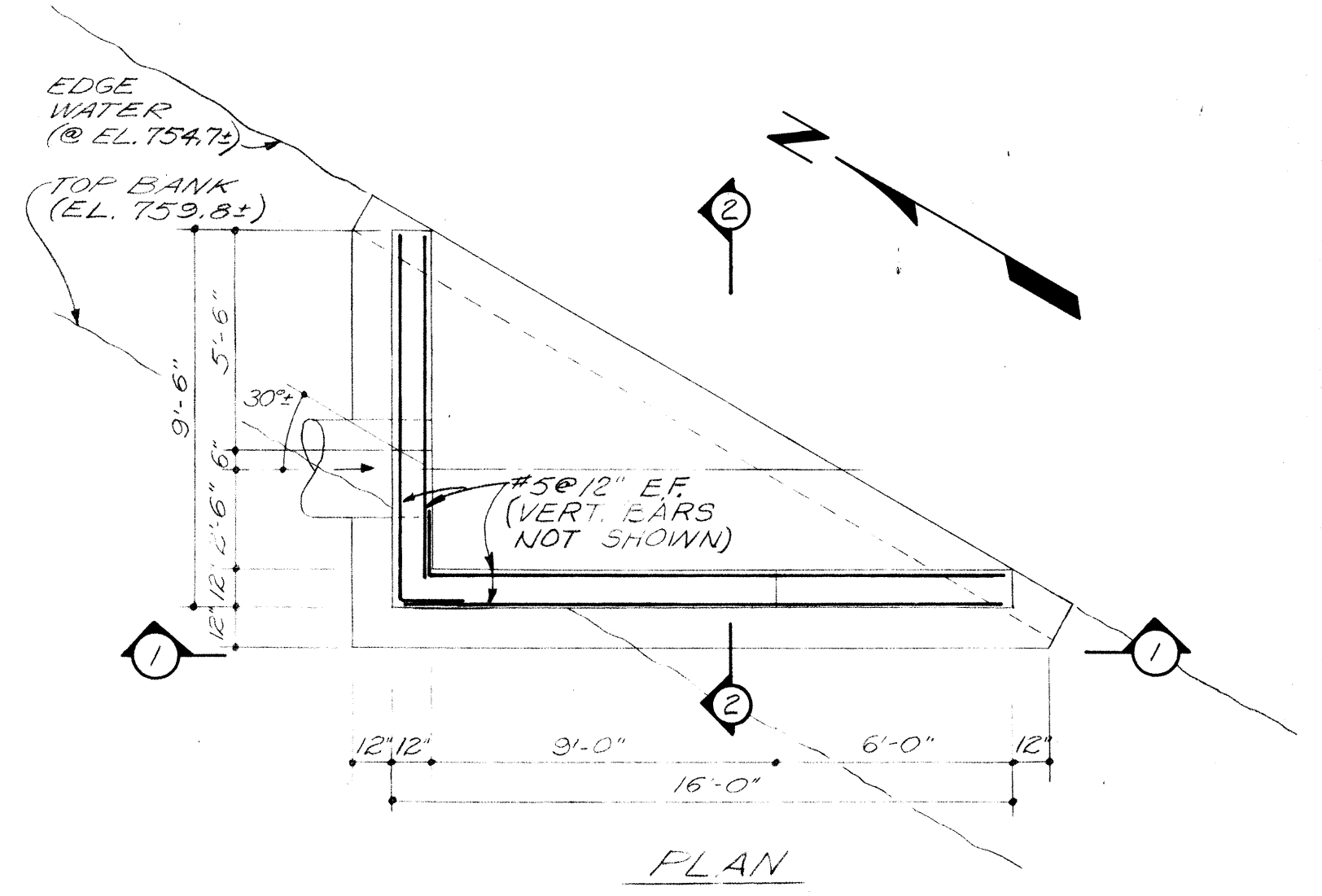
SECTION X-X



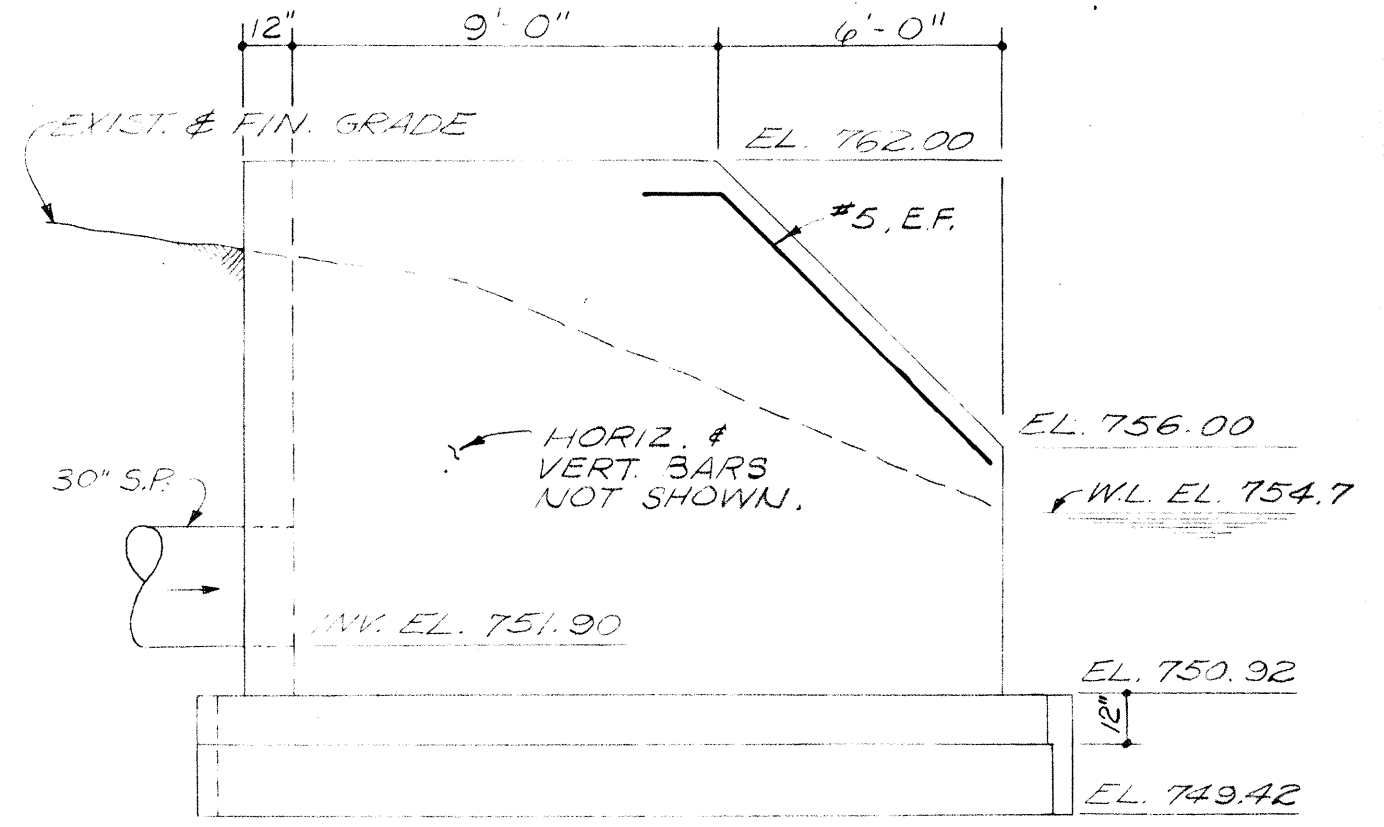
ELEVATION



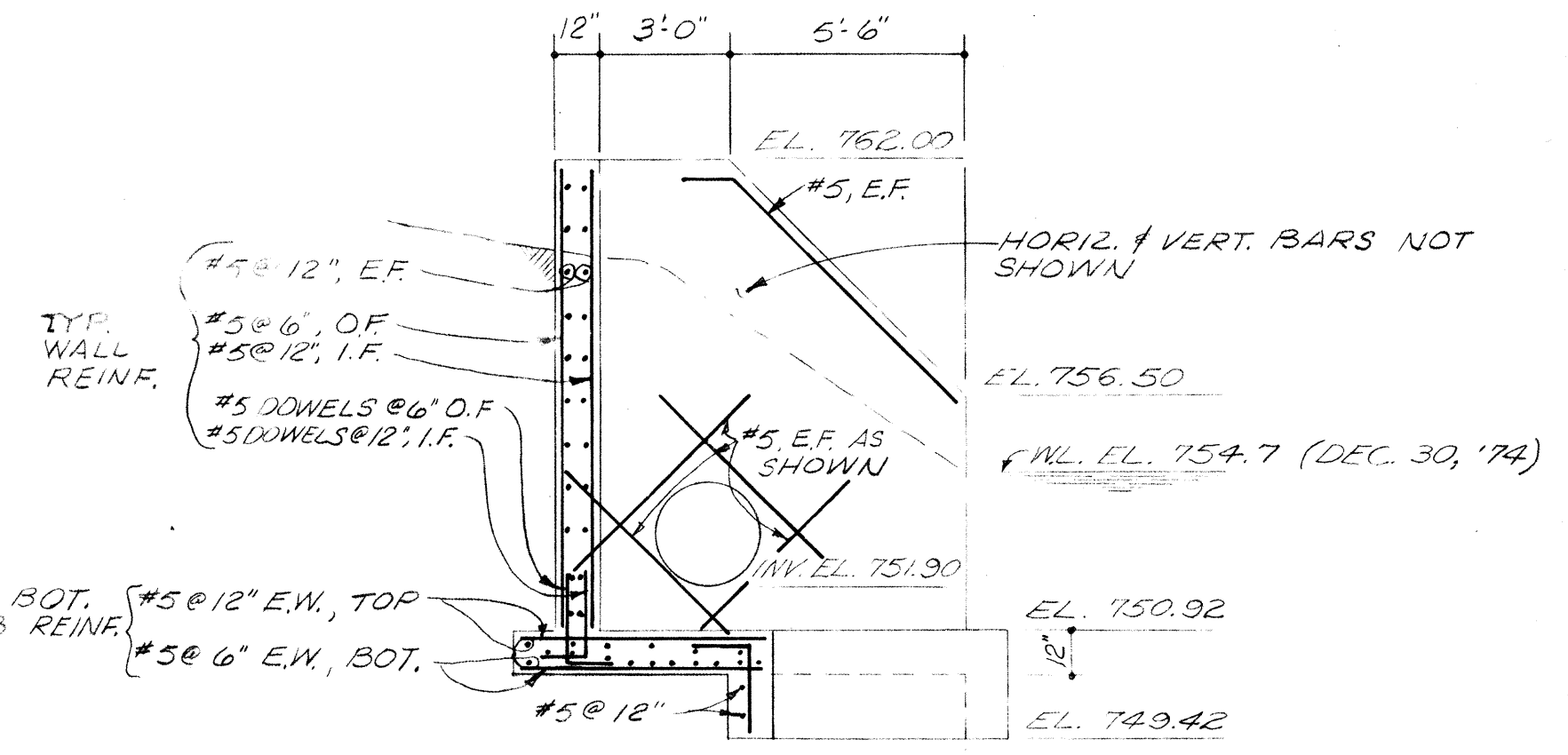
FINE SCREEN DETAIL



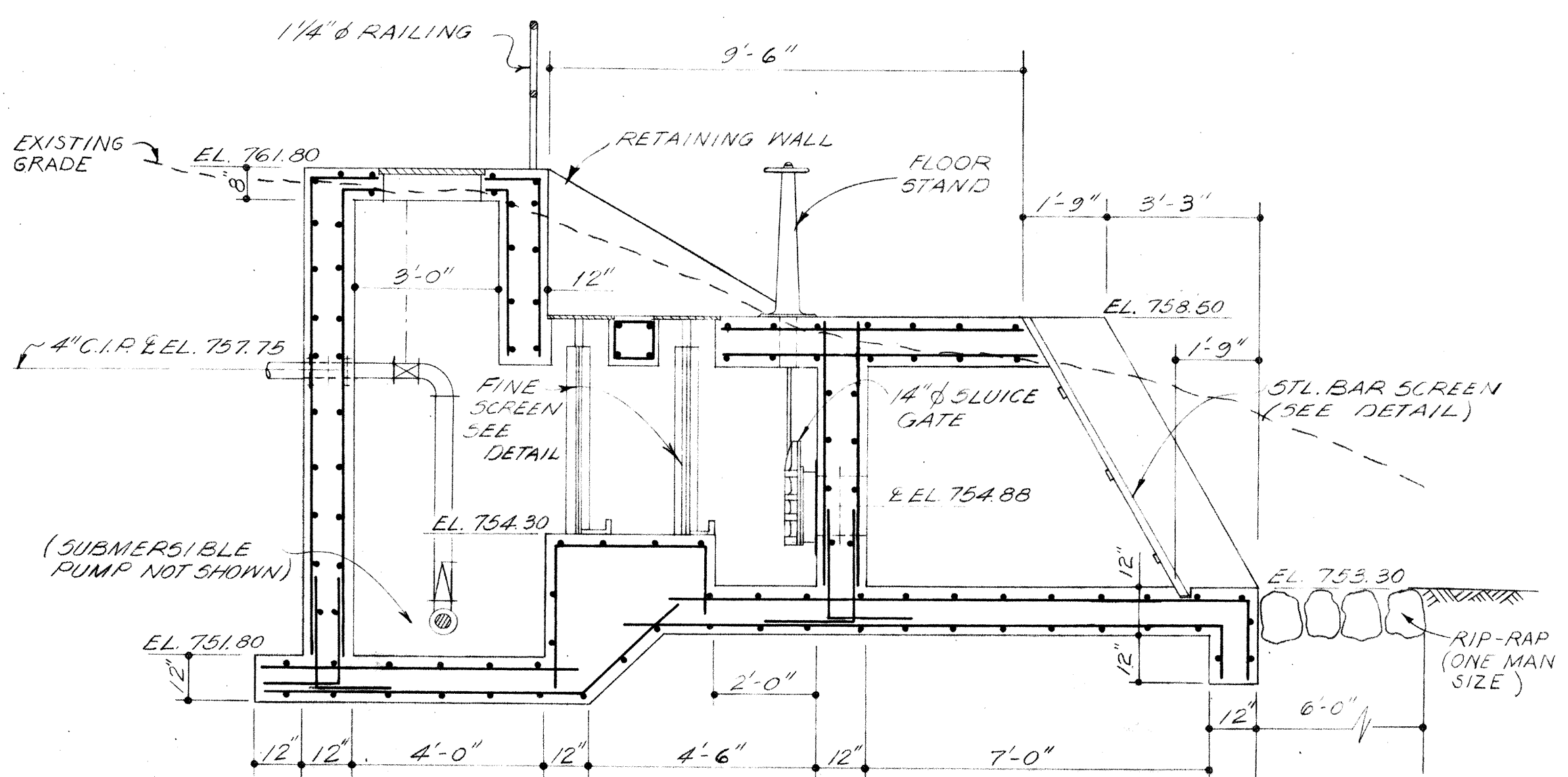
FLAN



ELEVATION 1-1



SECTION 2-2



SECTION 1-1

NOTE: ALL REINF. #5 @ 12" E.W., E.F. AS SHOWN.

INTAKE STRUCTURE

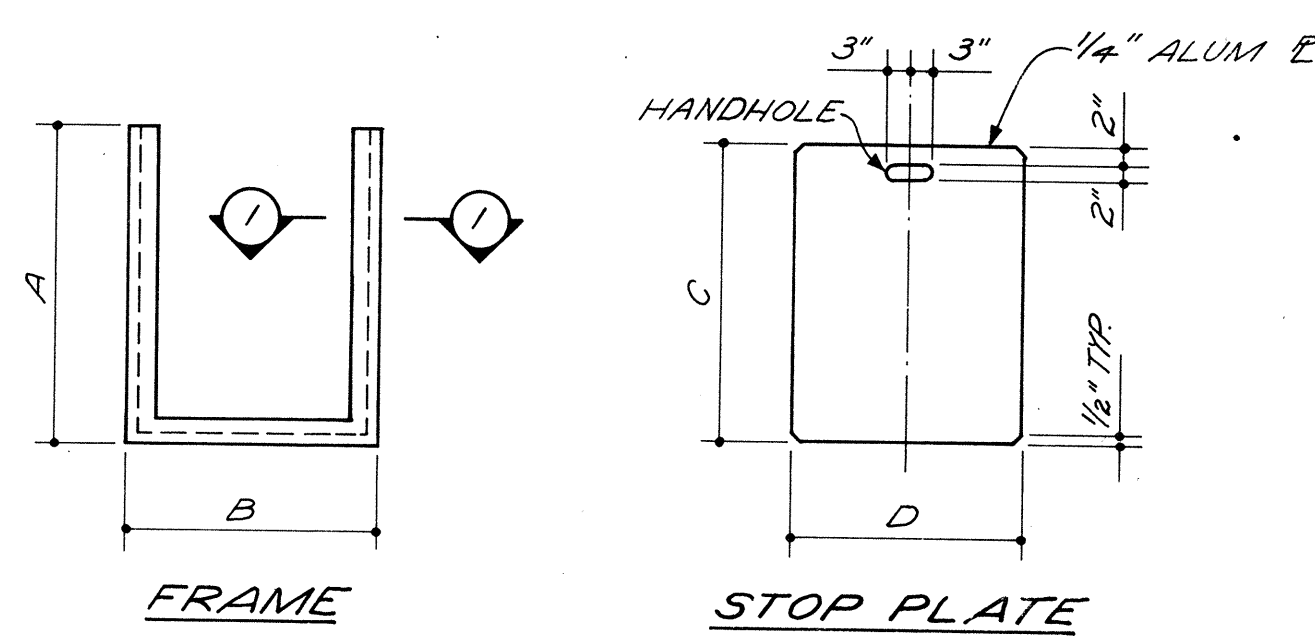
BAR SCREEN DETAIL

PLANT EFFLUENT HEADWALL

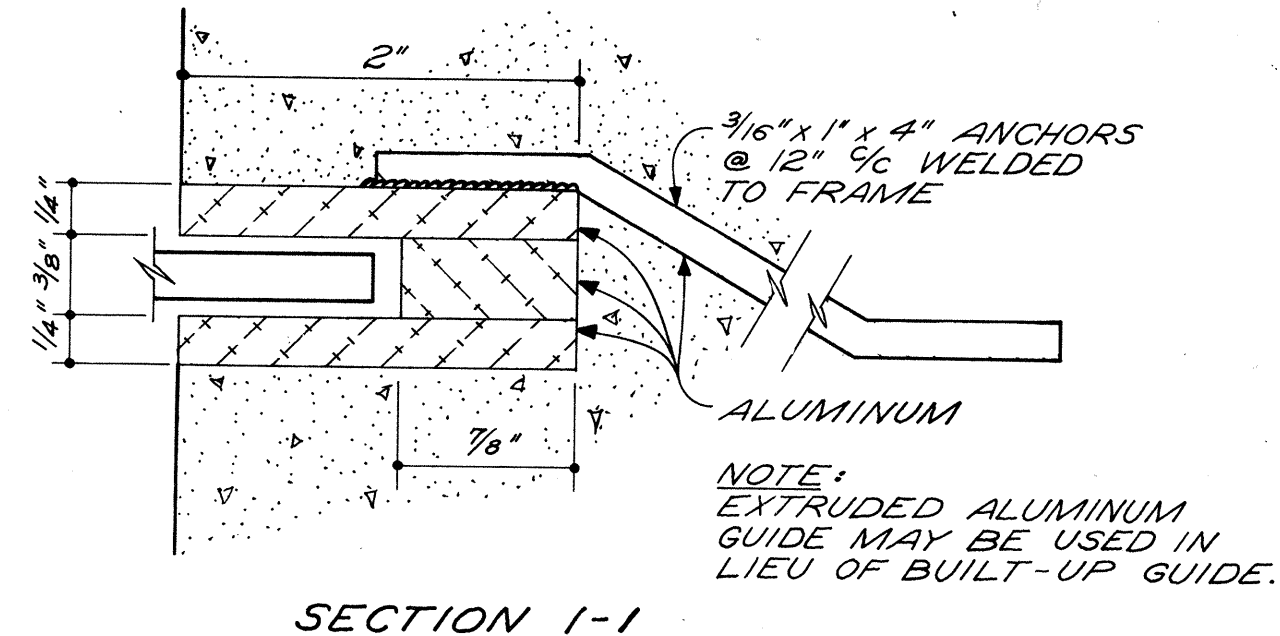
BURGESS & NIPLE, LIMITED CONSULTING ENGINEERS
COLUMBUS, OHIO

DELAWARE COUNTY, OHIO
OLENTANGY ENVIRONMENTAL CONTROL CENTER
INTAKE STRUCTURE &
HEADWALL DETAILS

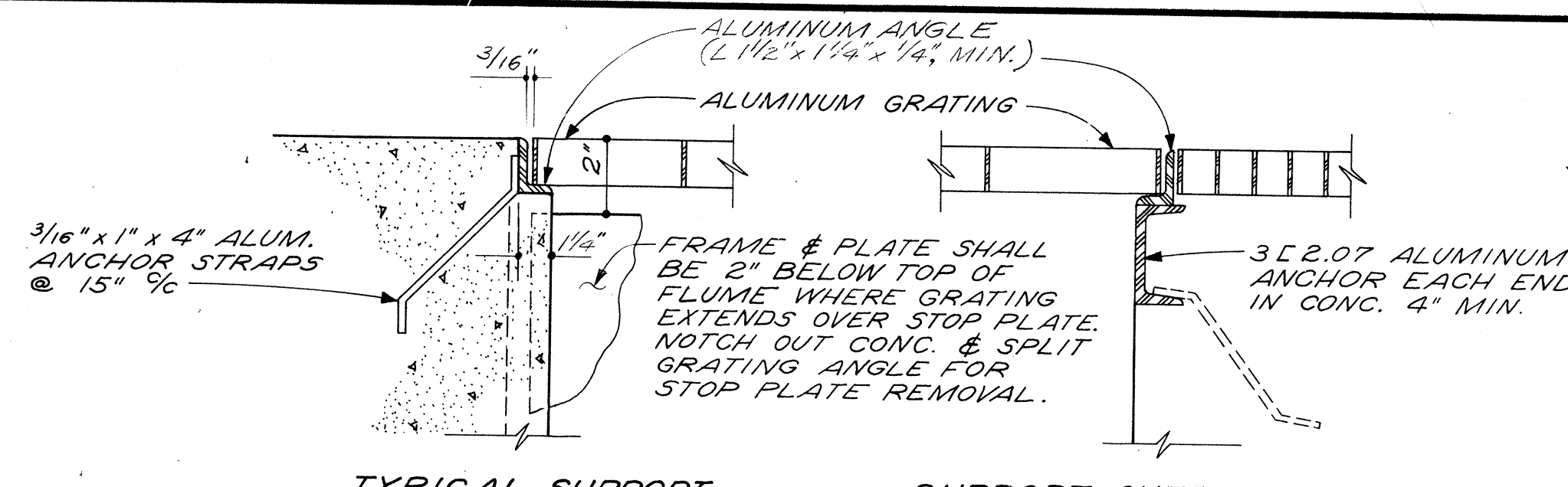
REVISIONS APRIL, 1975	DRAWN BY RGO TRACED BY M.A.W.	CHECKED BY APPROVED BY
JUNE, 1973	SCALE: 3/8" = 1'-0" UNLESS NOTED	SHEET 51 OF 75



ALUMINUM FRAME & PLATE DETAILS

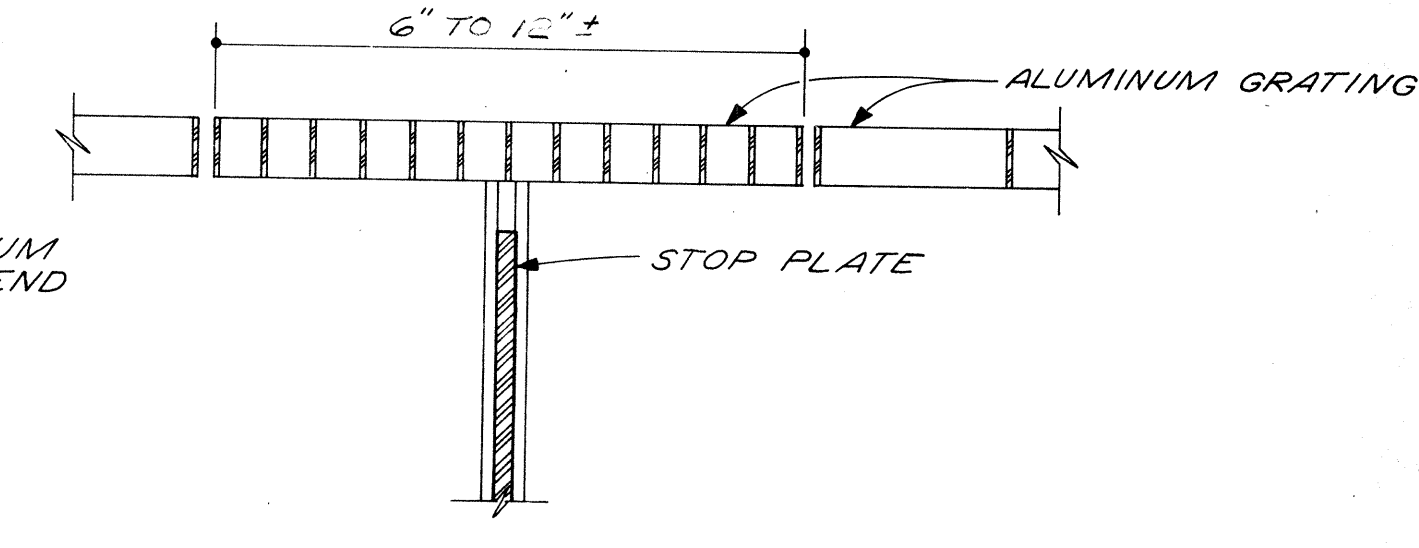


SECTION 1-1



TYPICAL SUPPORT

SUPPORT OVER OPENINGS

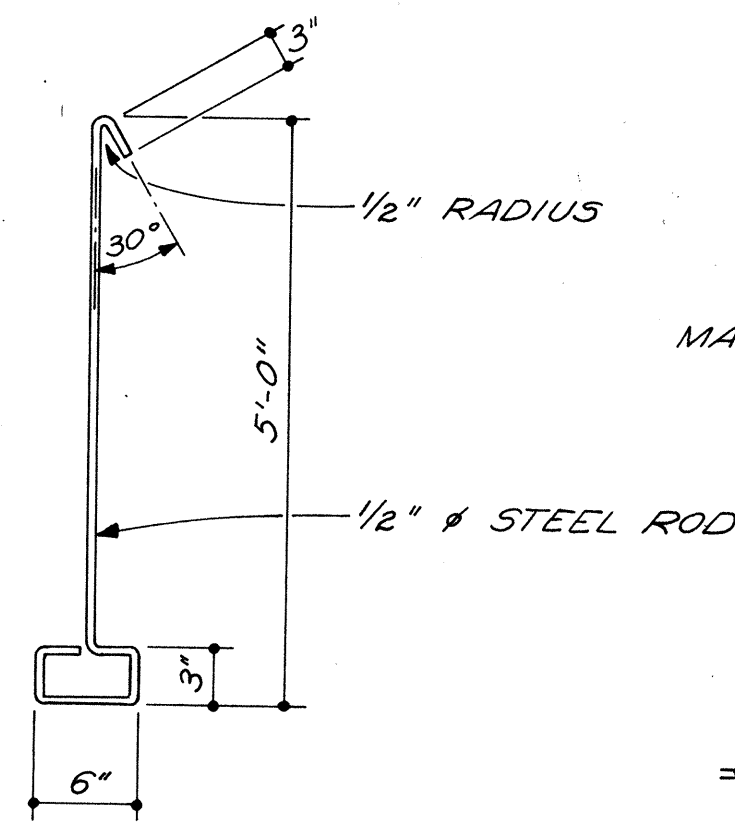


GRATING OVER STOP PLATES

ALUMINUM GRATING DETAILS

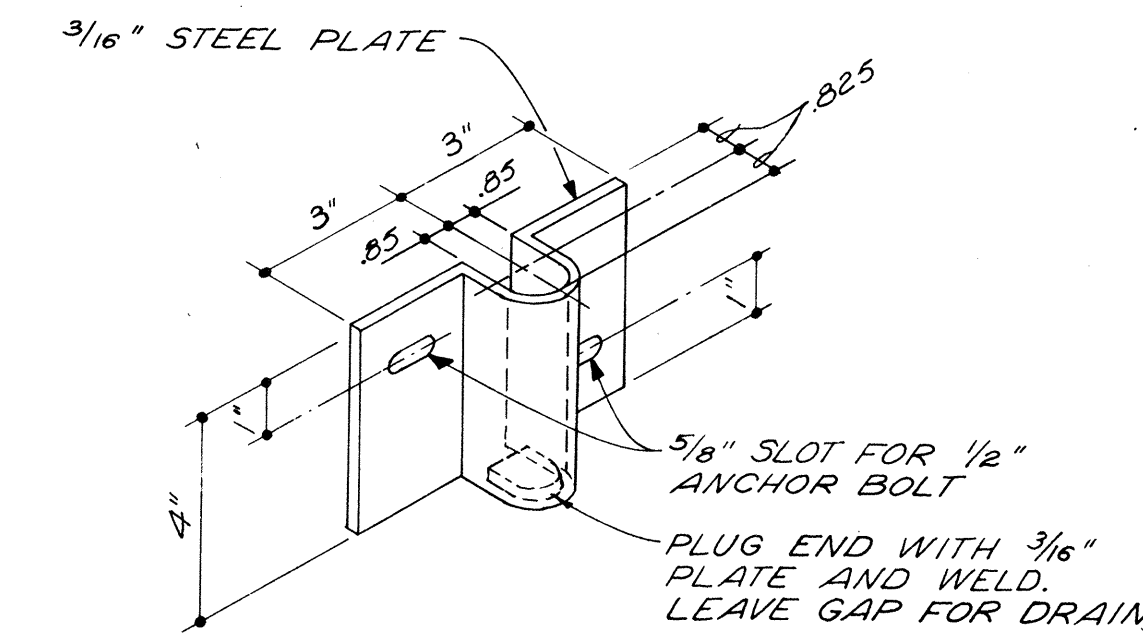
MK.	FRAME			STOP P.			WEIR P.			LOCATION
	A	B	NO.	C	D	NO.	C	D	NO.	
A	2.73	2.33	9	2.65	2.17	8				1ST & 2ND STAGE AERATION TANKS
B	2.90	2.33	1	2.81	2.17	1				"
C	2.33	4.33	6							"
D	2.00	4.33	4	1.92	4.17	4				INTERMEDIATE AND FINAL SPLITTER BOX
E	3.23	2.83	2	3.14	2.67	2				SCREW PLUMP LIFT STATION
F	5.00	2.83	4	4.92	2.67	4				TERTIARY BUILDING
G	5.33	2.83	7	5.25	2.67	7				EFFLUENT FLUME
H	5.50	2.83	1	5.42	2.67	1				CONTROL BUILDING COMMUNICATOR AREA

OMIT HANDHOLE IN WEIR R.

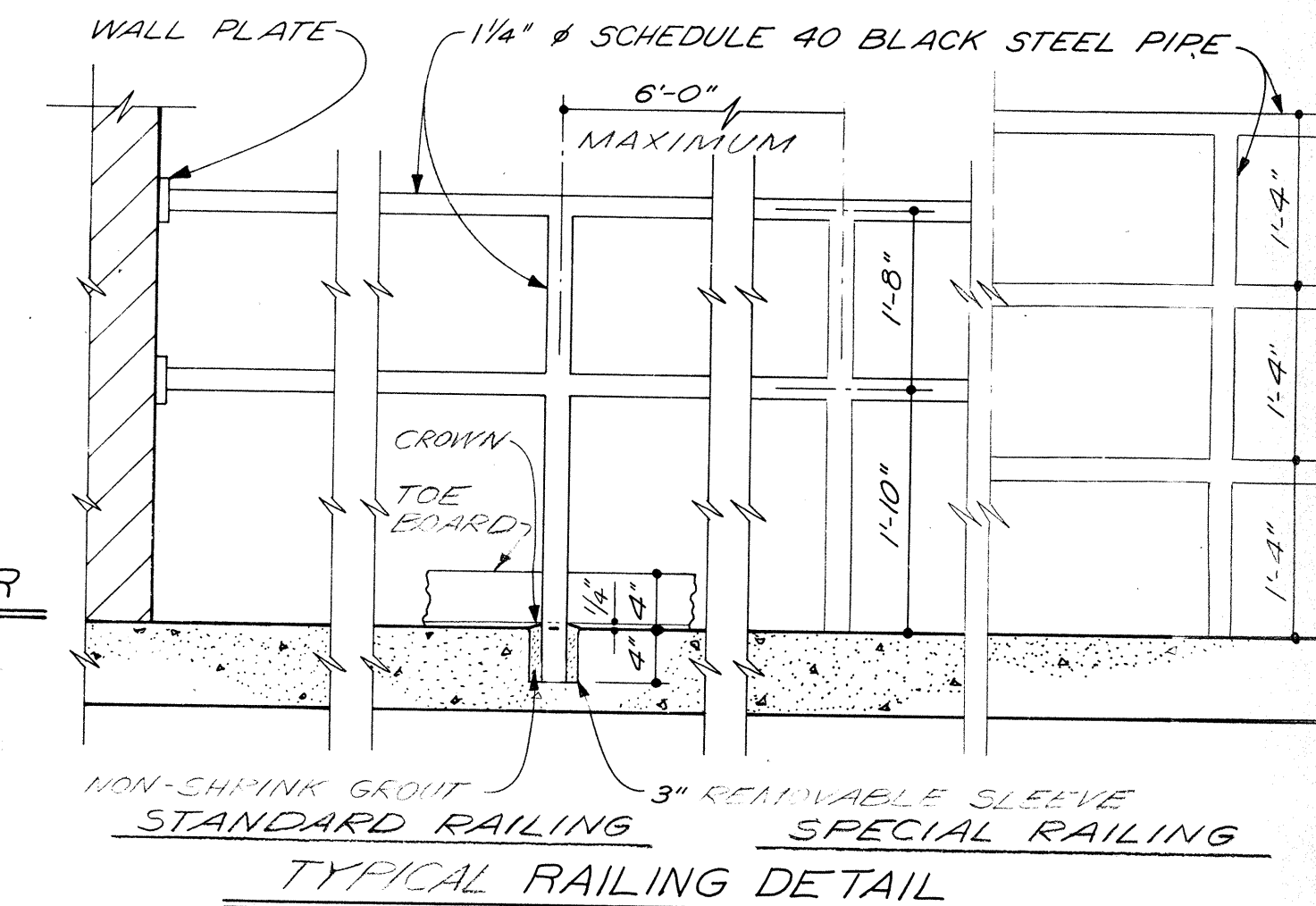


BASKET HOOK DETAIL (1 REQUIRED)

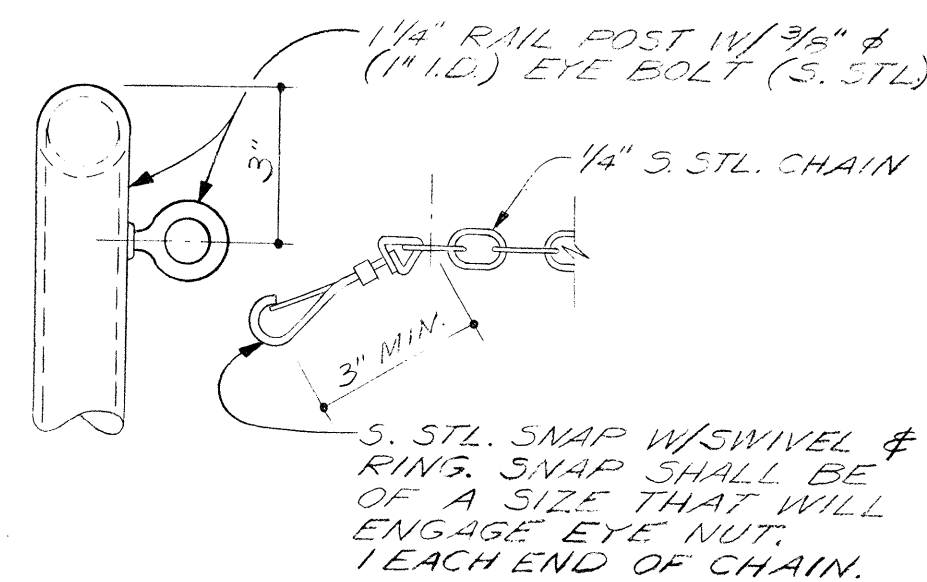
MALLEABLE IRON



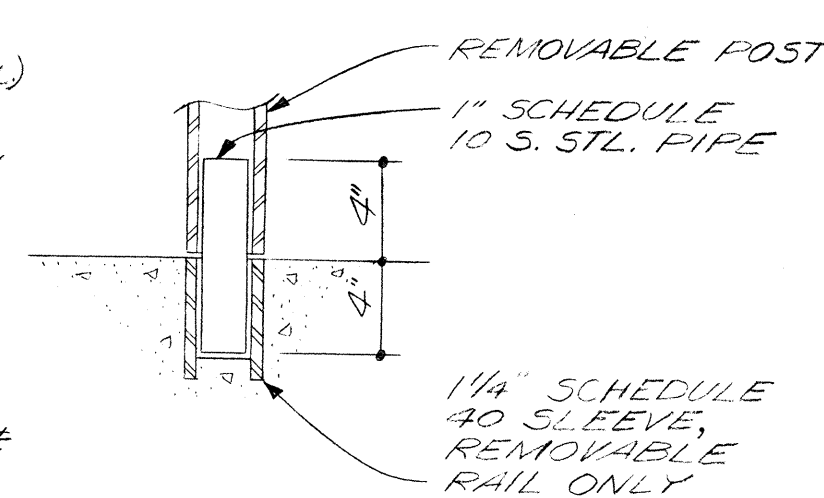
SURFACE MOUNTED RAILING HOLDER (INTERIOR ONLY)



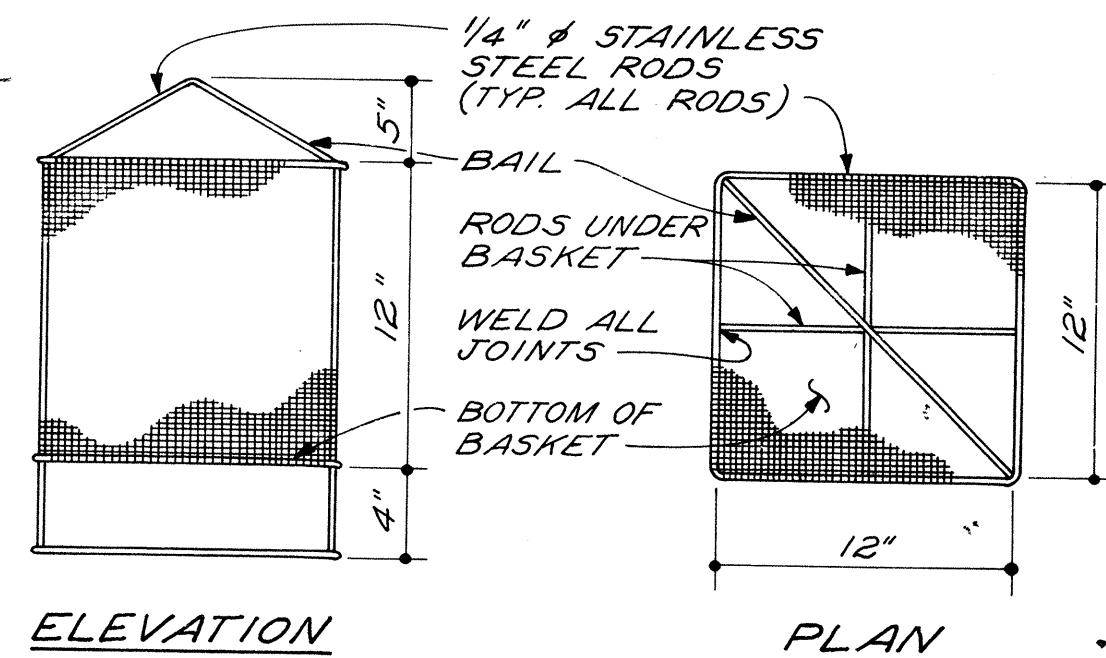
TYPICAL RAILING DETAIL



POST & CHAIN DETAIL



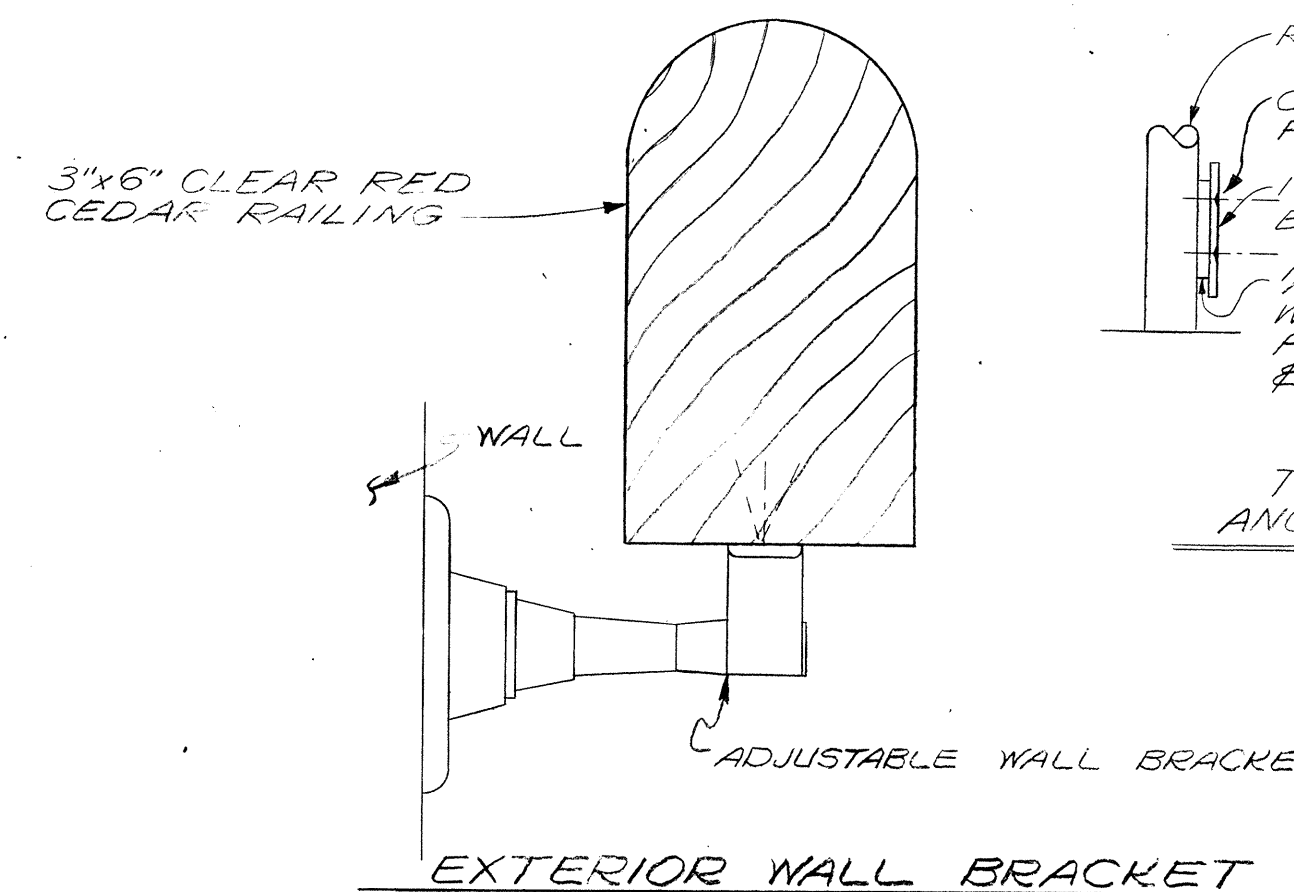
REMOVABLE RAIL ANCHOR DETAIL



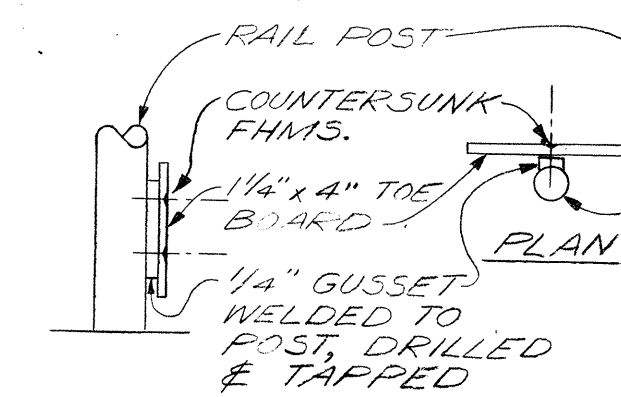
ELEVATION

PLAN

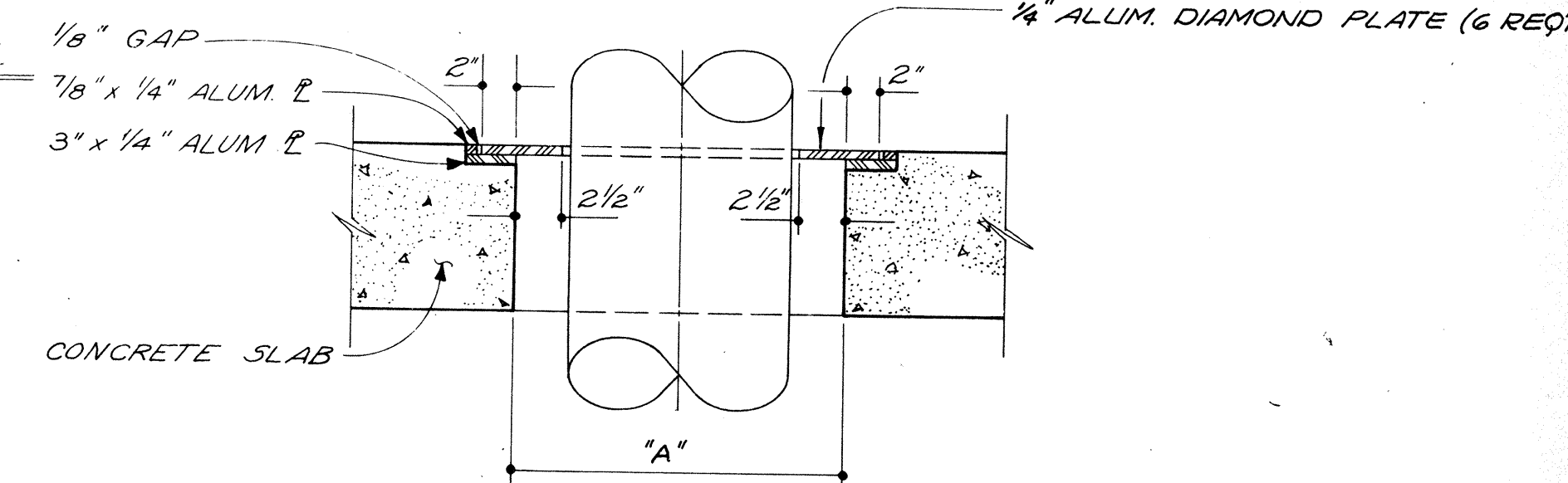
GREASE BASKET DETAIL (4 REQUIRED)



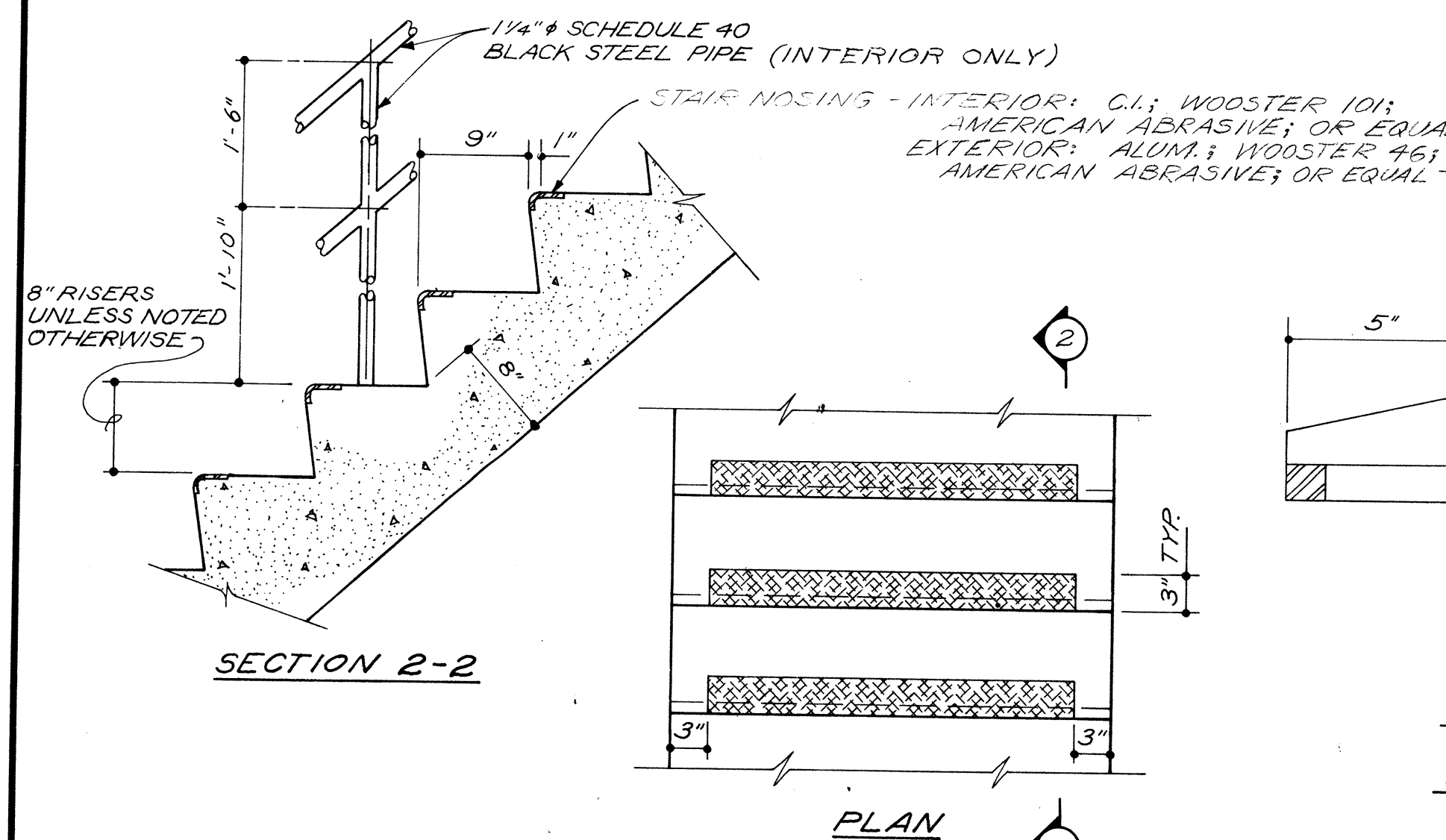
EXTERIOR WALL BRACKET



TOE BOARD ANCHOR DETAIL



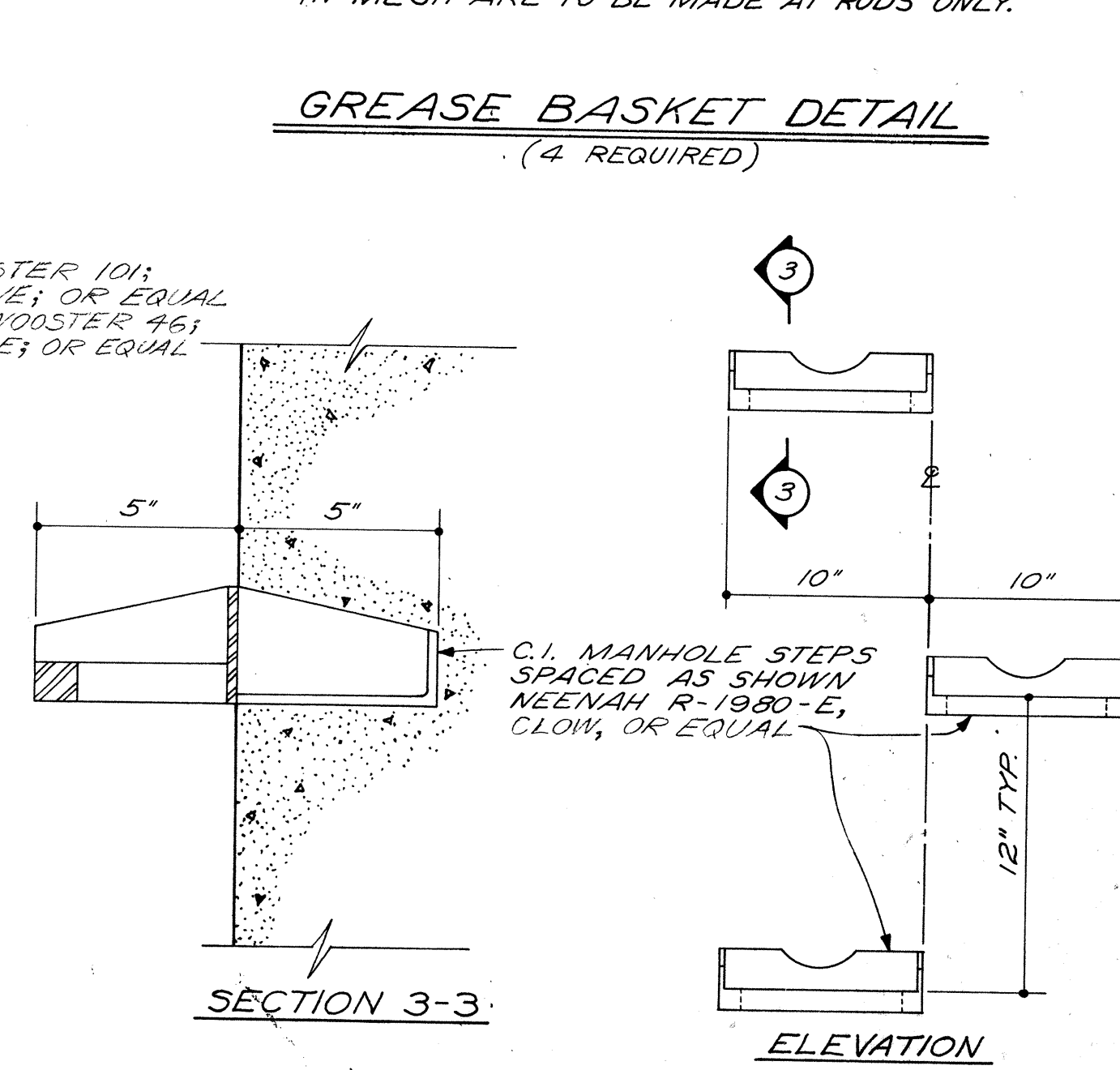
PIPE OPENING DETAIL



SECTION 2-2

PLAN

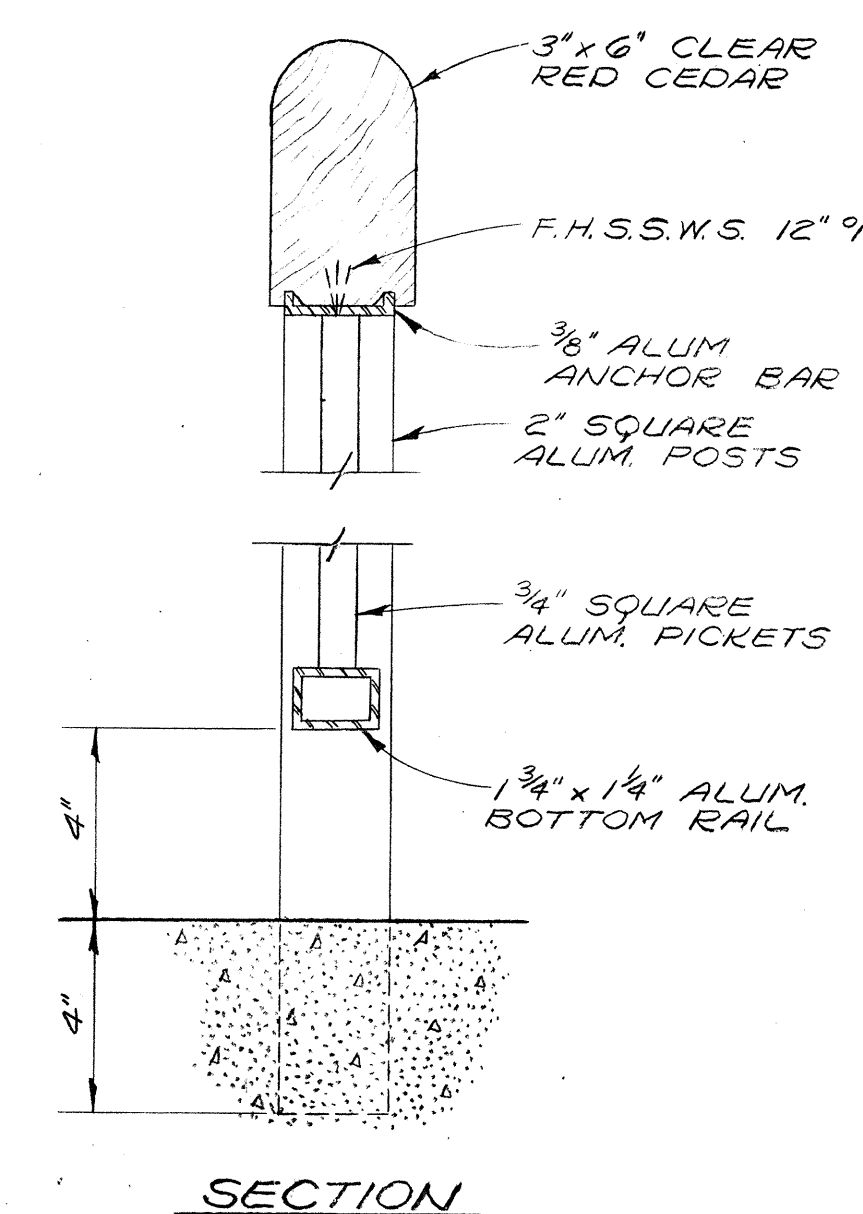
TYPICAL STAIR & STAIR RAIL DETAIL



SECTION 3-3

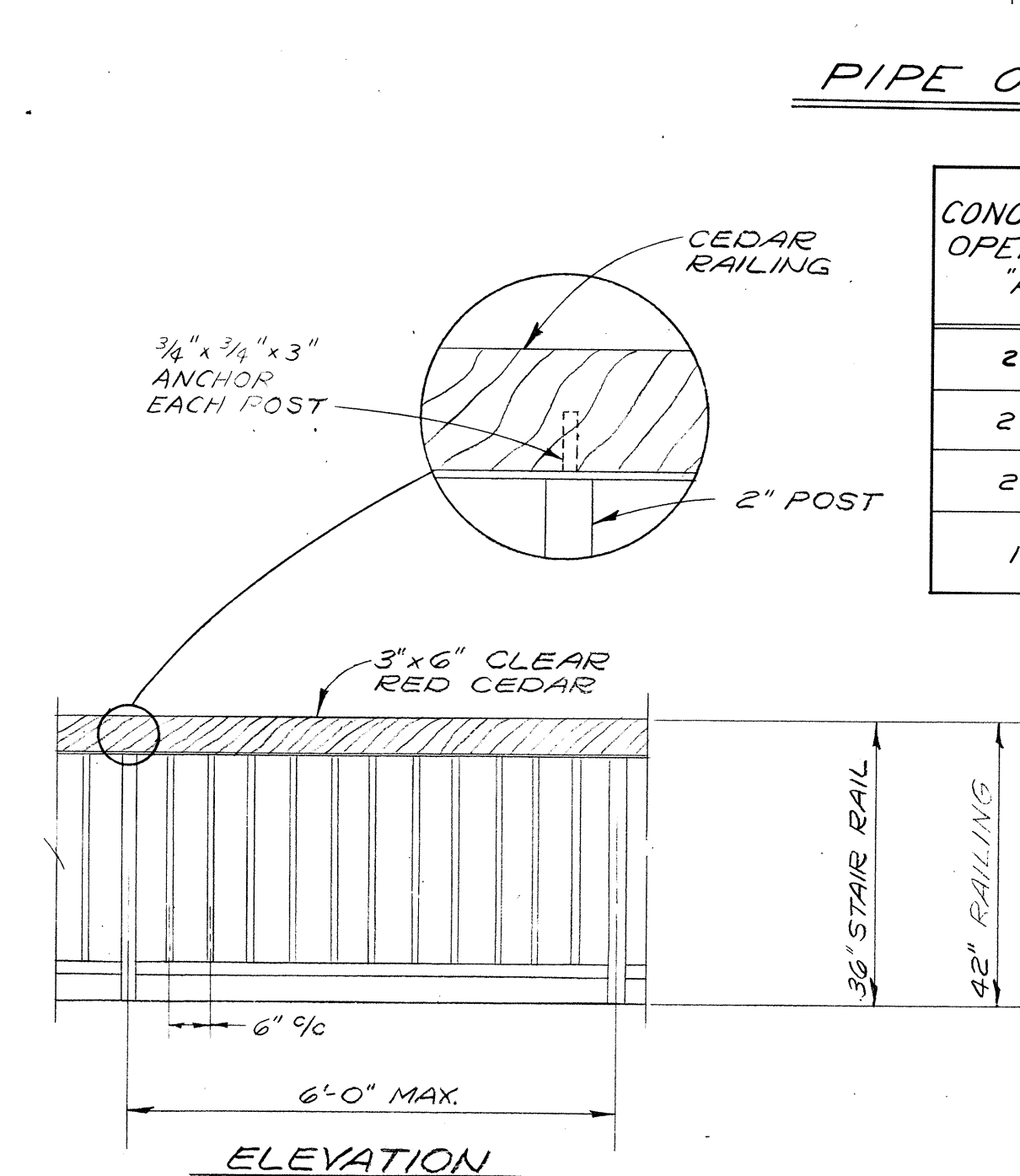
ELEVATION

TYPICAL MANHOLE STEPS



SECTION

EXTERIOR ALUMINUM RAILING DETAIL



ELEVATION

CONCRETE OPENING "A"	PIPE		CLOSURE PIPE		LOCATION
	SIZE	FUNCTION	No. REQ.	TYPE	
20"	12"	AIR	4	SPLIT	BLOWER BLDG.
24"	16"	AIR	2	SPLIT	
24"	-	FUTURE AIR	2	FULL	CONTROL BLDG.
12"	-	FUTURE COMMUNICATOR	1	FULL	

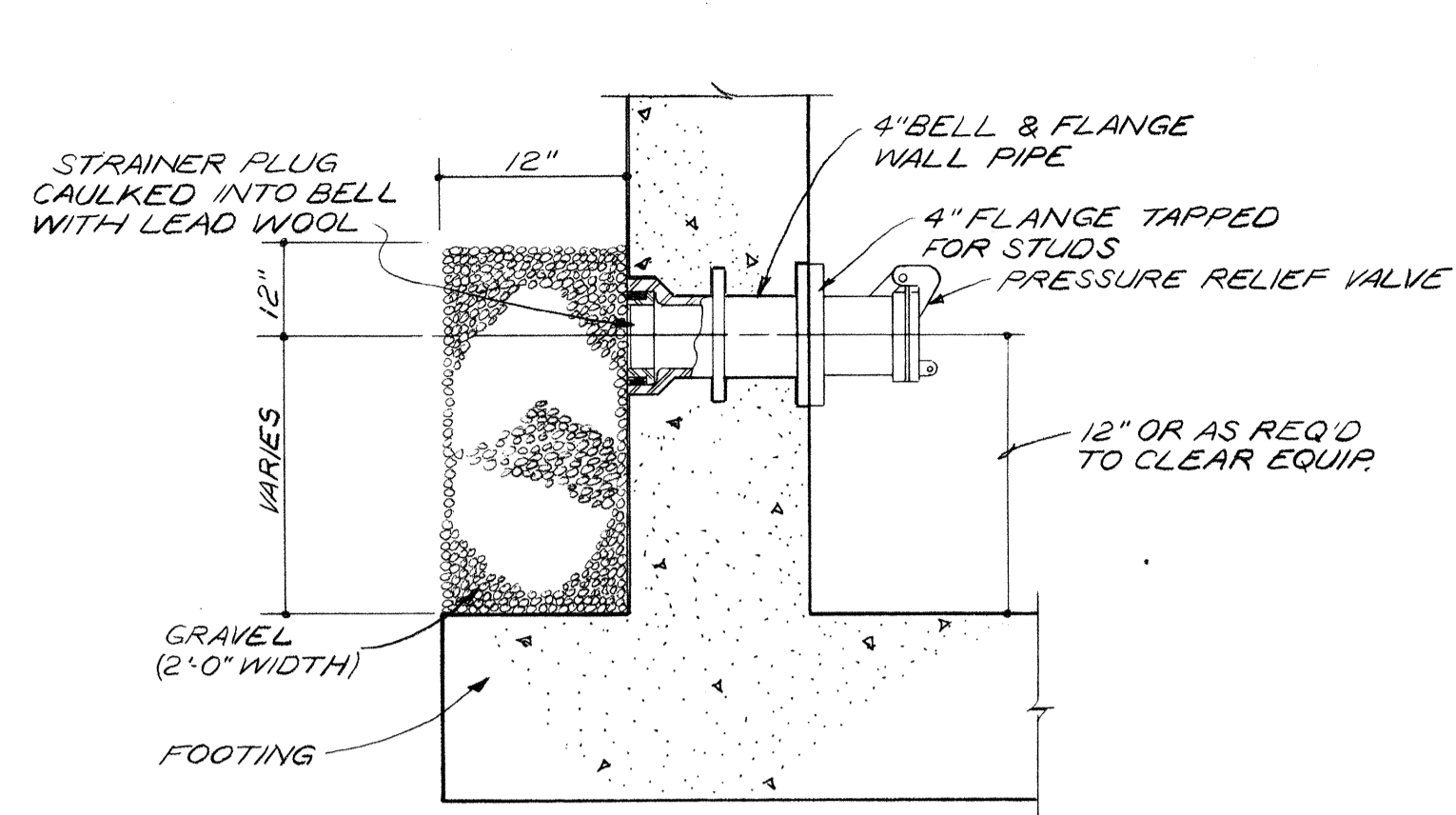
NOTE: ALL ALUMINUM IN CONTACT WITH CONCRETE OR DISSIMILAR METALS SHALL BE COATED WITH TWO (2) COATS OF BITUMASTIC.

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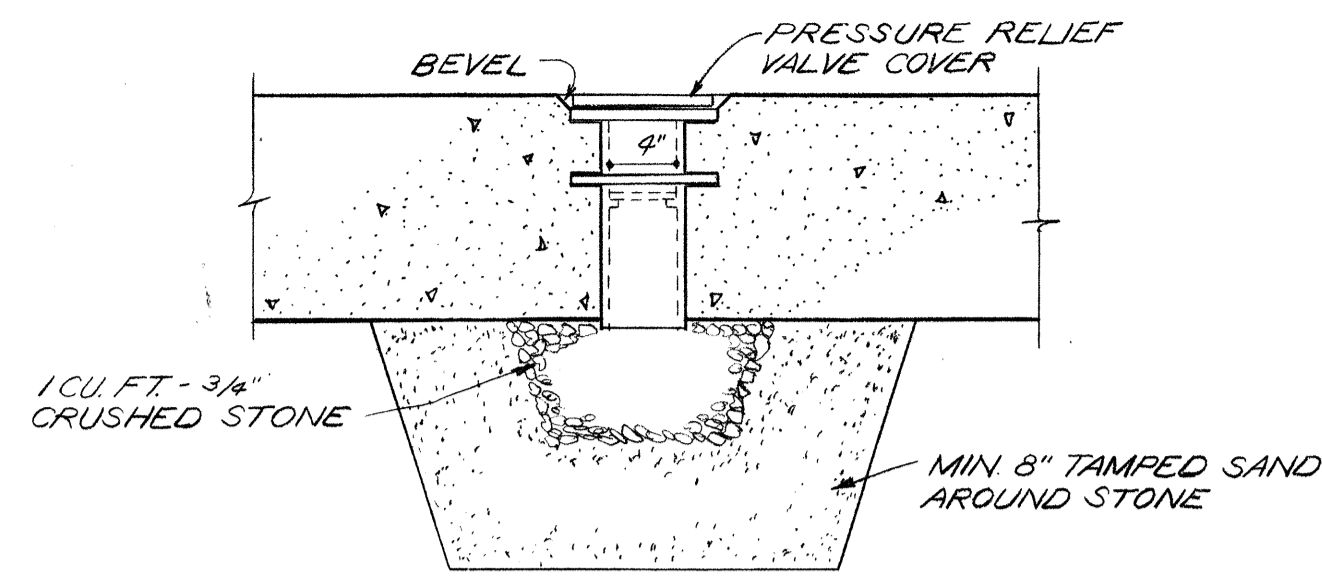
DELAWARE COUNTY, OHIO
OLENTANGY ENVIRONMENTAL CONTROL CENTER

MISCELLANEOUS DETAILS

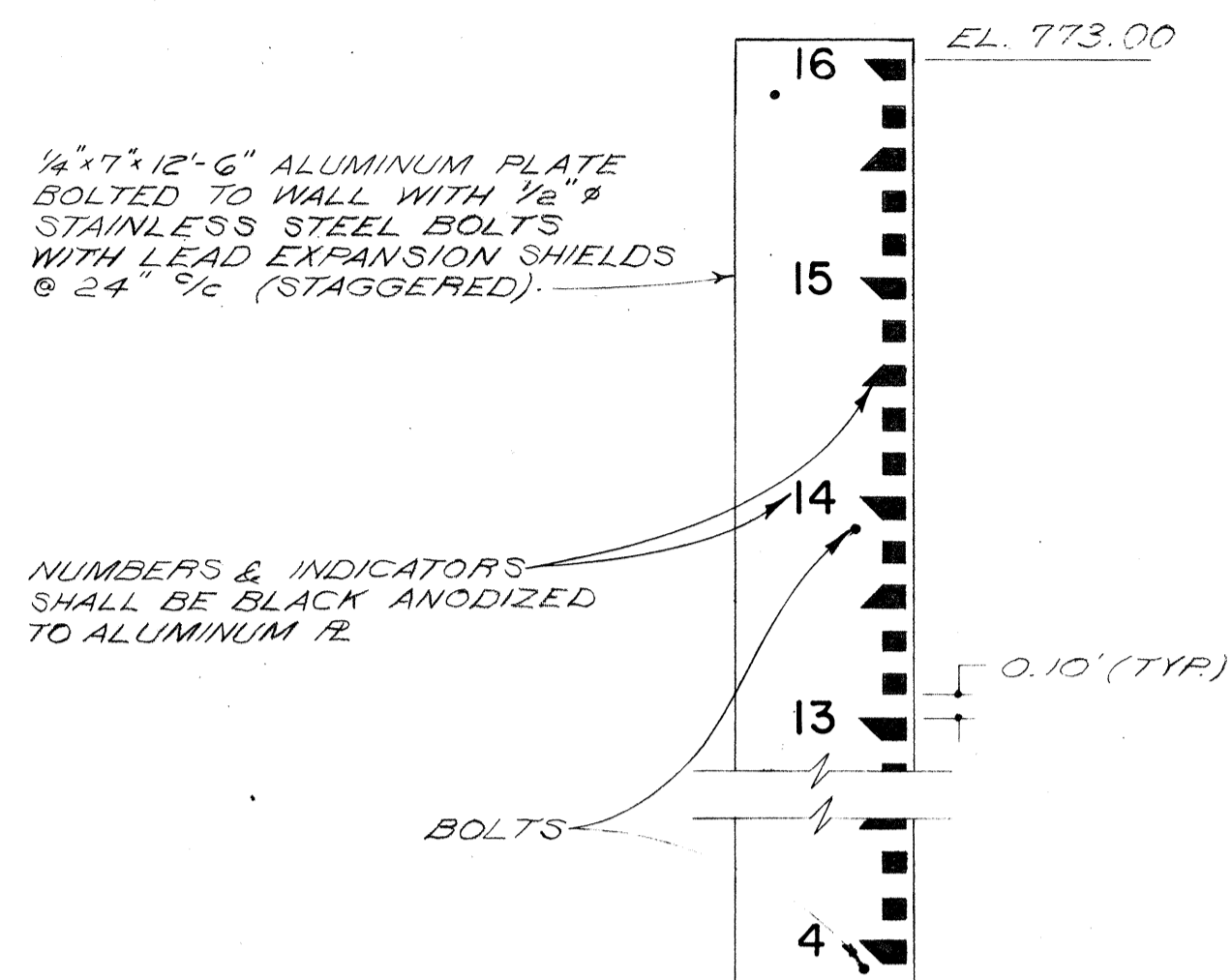
REVISIONS APRIL, 1975	DRAWN BY H. S.	CHECKED BY
JUNE, 1973	TRACED BY RMV	APPROVED BY
	SCALE: NONE	SHEET 52 OF 75



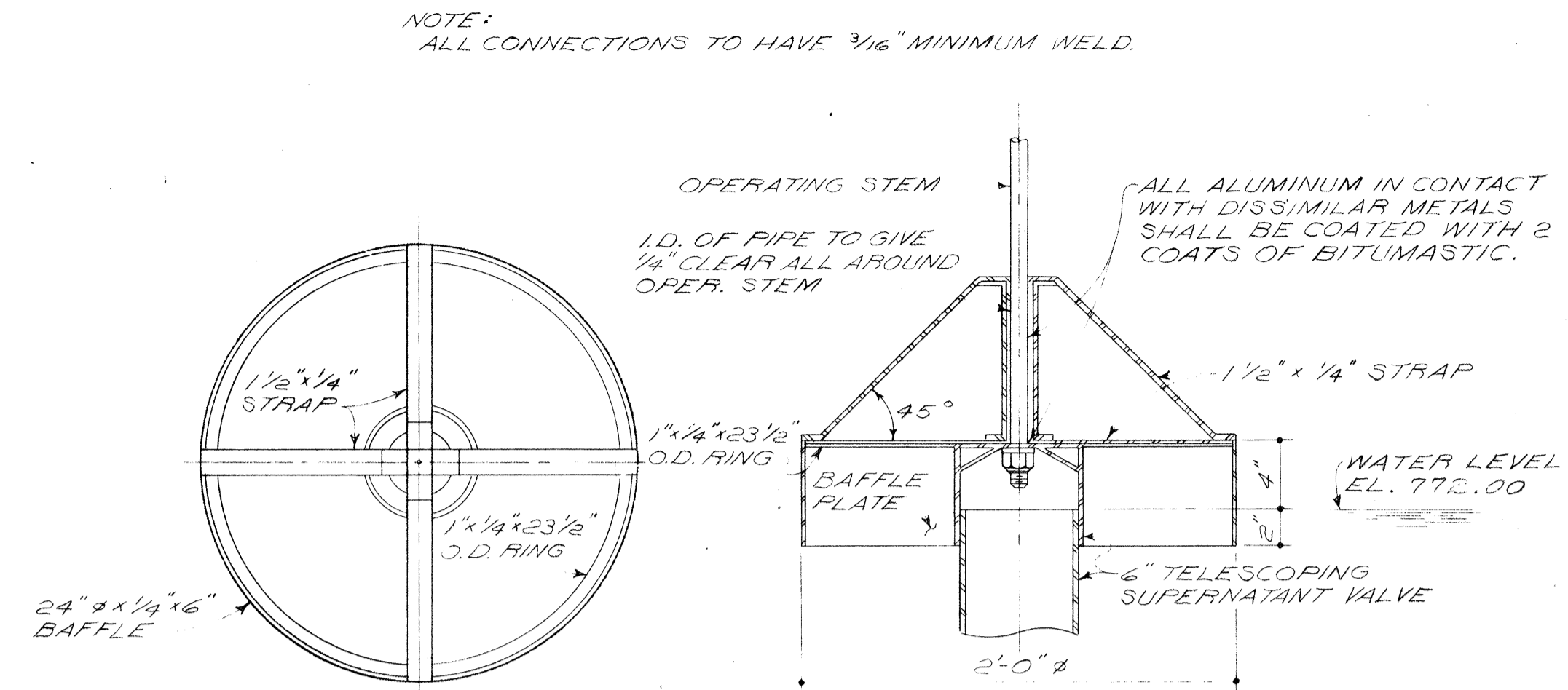
PRESSURE RELIEF VALVE (WALL)



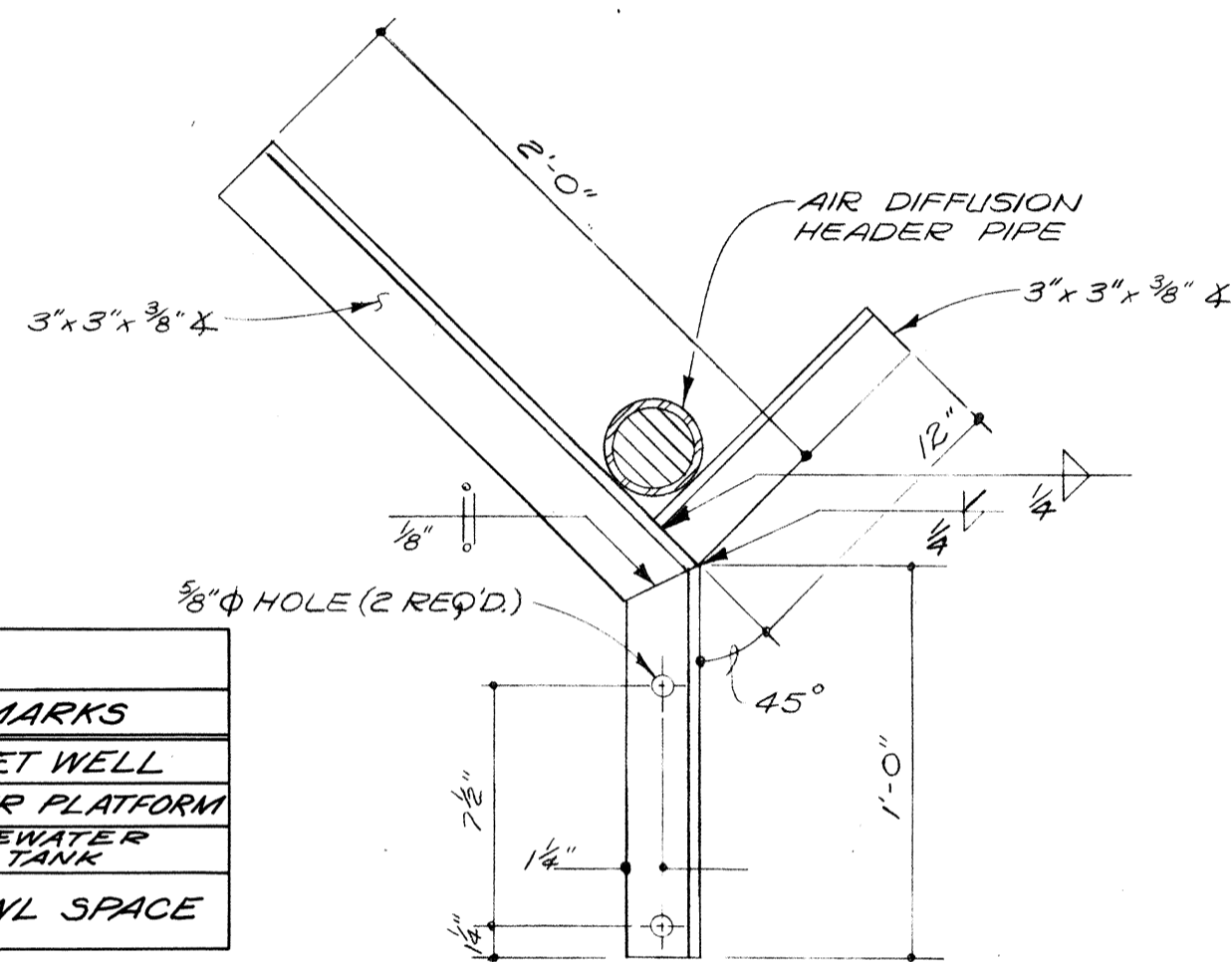
PRESSURE RELIEF VALVE (SLAB)



STAFF GAUGE
(2 REQ'D)

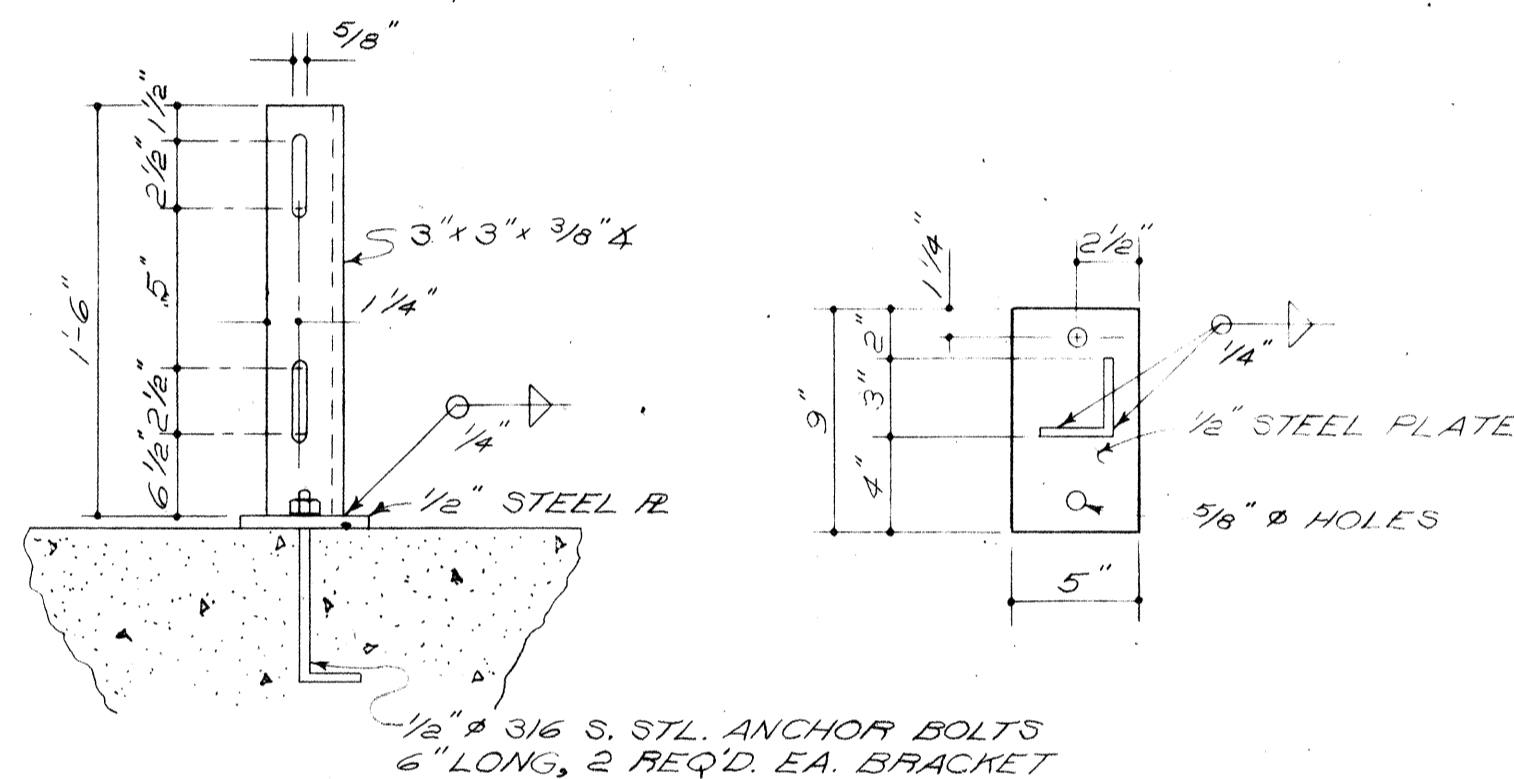


SCUM BAFFLE

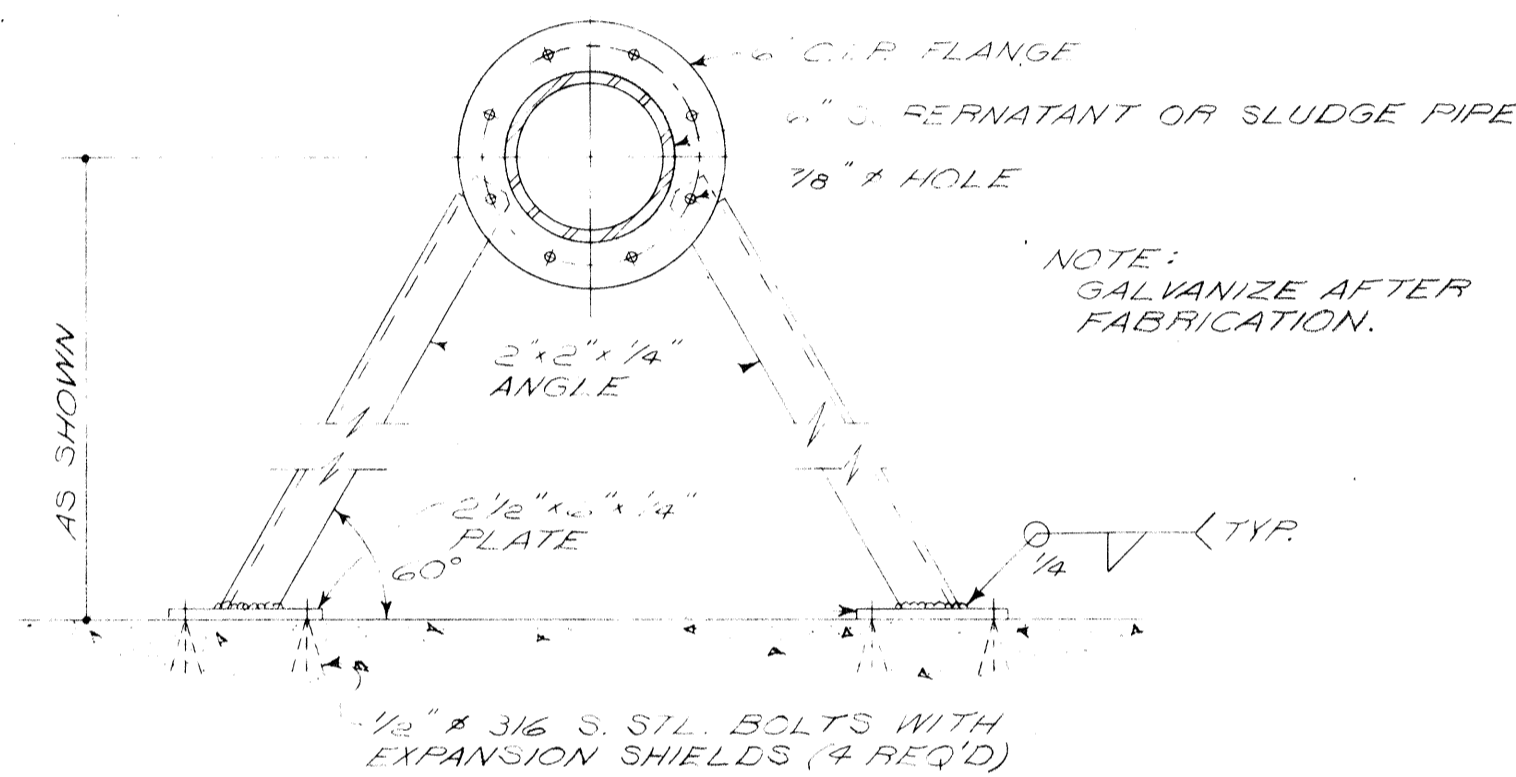


AIR HEADER SUPPORT BRACKET DETAILS

(3 REQ'D EACH HEADER)



PIPE SUPPORT DETAIL

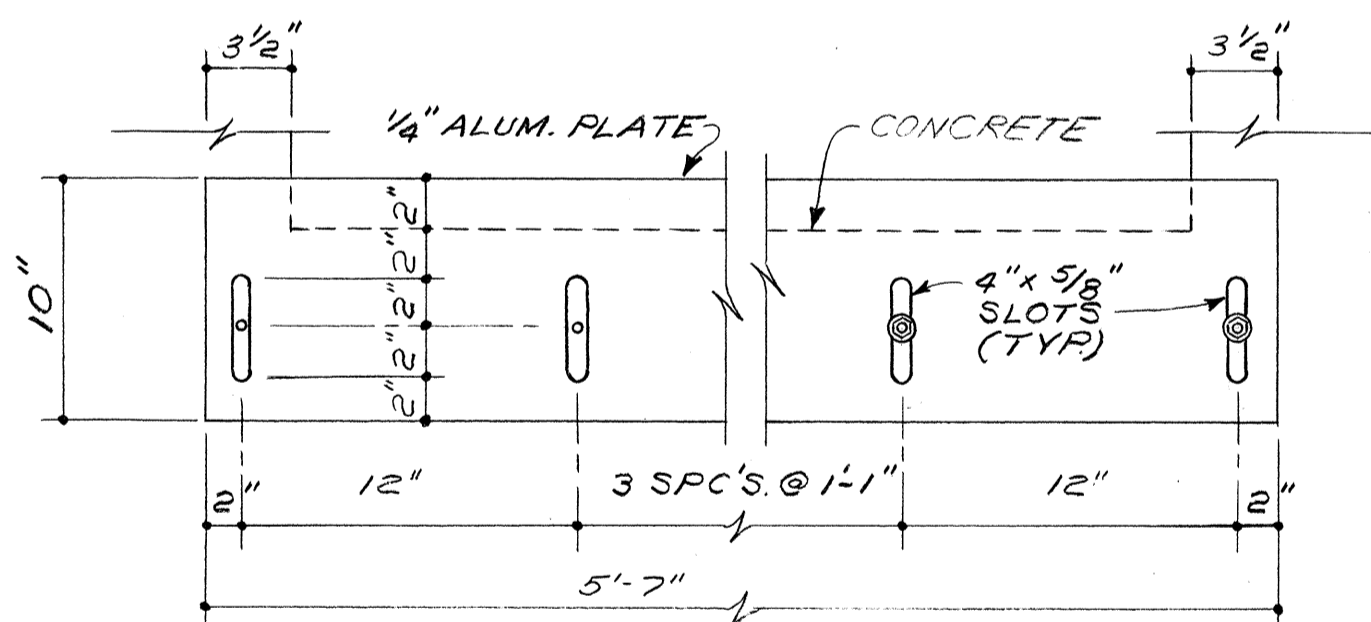


BUMPER BLOCK ANCHOR DETAIL

ACCESS DOOR SCHEDULE						
LOCATION	QTY.	TYPE	MATERIAL	SIZE	STYLE	REMARKS
CONTROL BLD'G.	2	FLOOR	ALUMINUM	2'-6"x2'-6"	BILCO, K-2	TO WET WELL
CONTROL BLD'G.	1	FLOOR	ALUMINUM	2'-8"x4'-8"	BILCO, K	TO HEATER PLATFORM
TERTIARY BLD'G.	2	FLOOR	ALUMINUM	3'-0"x2'-6"	BILCO, J-3AL	TO WASTEWATER HOLDING TANK
CONCENTRATOR BLD'G.	1	WALL	STEEL (PRIME COAT)	2'-6"x2'-6"	MILCOR-M	TO CRAWL SPACE

NOTE: SIMILAR FLOOR DOORS BY BABCOCK-DAVIS ASSOC. INC. OR EQUAL, AND WALL DOORS BY BOICO, OR EQUAL, MAY BE USED.

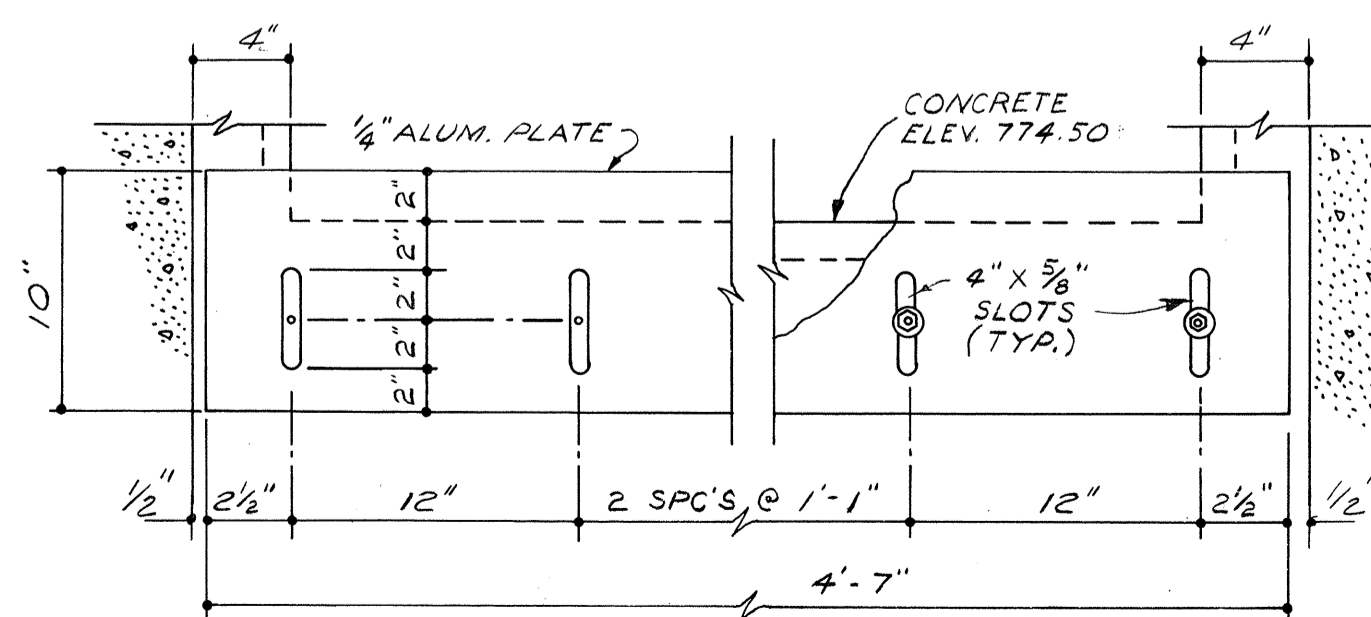
* MASONRY OPENING SIZE - SEE DETAIL, SH. #59



NOTE: ANCHOR WEIR R TO WALL WITH 1/2\"/>

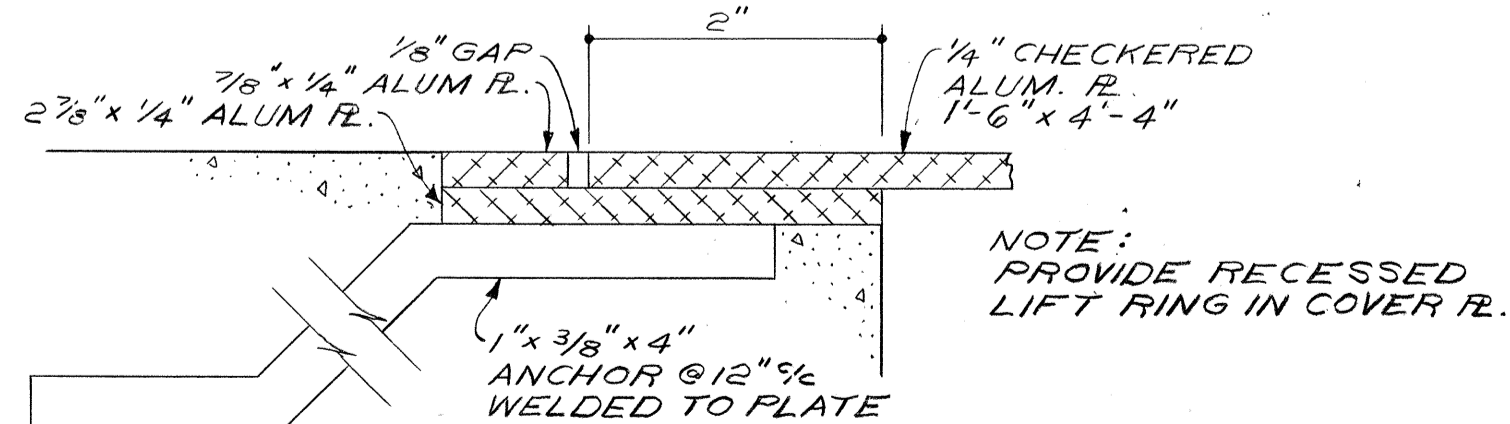
EFFLUENT FLUME OVERFLOW WEIR

(1 REQ'D POST AERATION)
(1 REQ'D CHLORINE CONTACT)



SPLITTER BOX WEIR PLATE DETAIL

(4 REQ'D)



SCREEN ACCESS OPENING AT INTAKE STRUCTURE

FLOOR LOAD PLATE TABLE		
LOCATION	LOAD	QUAN.
BLOWER BUILDING	300	2
CONCENTRATOR BLD'G.	300	2
TERTIARY BUILDING	300	2
CONTROL BUILDING	300	4
SCREW PUMP STATION	300	1

LIFT LOAD PLATE TABLE		
LOCATION	LOAD	QUAN.
BLOWER BUILDING	1500	1
CONTROL BUILDING WET WELL	1500	1
CONTROL BUILDING PUMP WELL	2500	1
SCREW PUMP BUILDING	1500	1

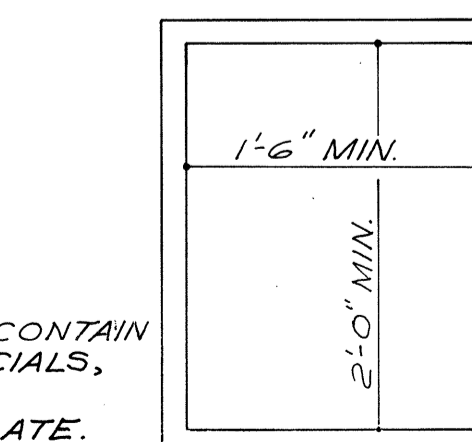
MAXIMUM FLOOR LOAD
300 LBS/SQ. FT.

FLOOR LOAD PLATE
(PLASTIC) (11 REQ'D)

MAXIMUM LIFT LOAD
LBS.

LIFT LOAD PLATE
(PLASTIC) (3 REQ'D)

NOTE: PLAQUE SHALL CONTAIN NAMES OF OFFICIALS, CONTRACTOR, ENGINEERS, & DATE.



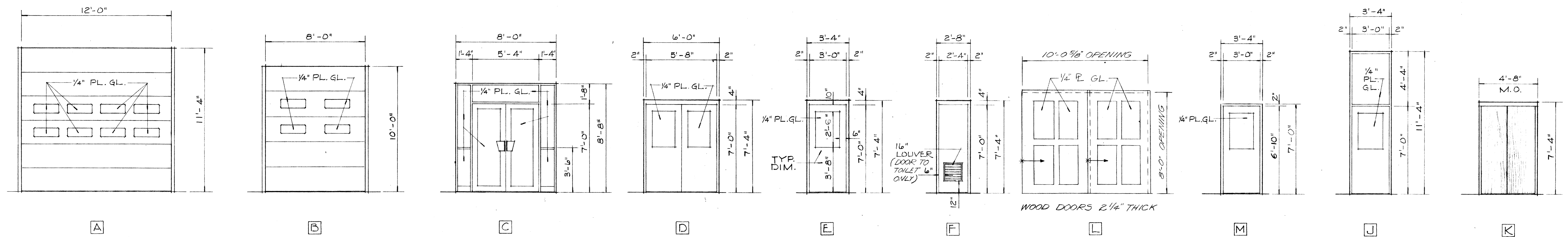
ALUMINUM PLAQUE

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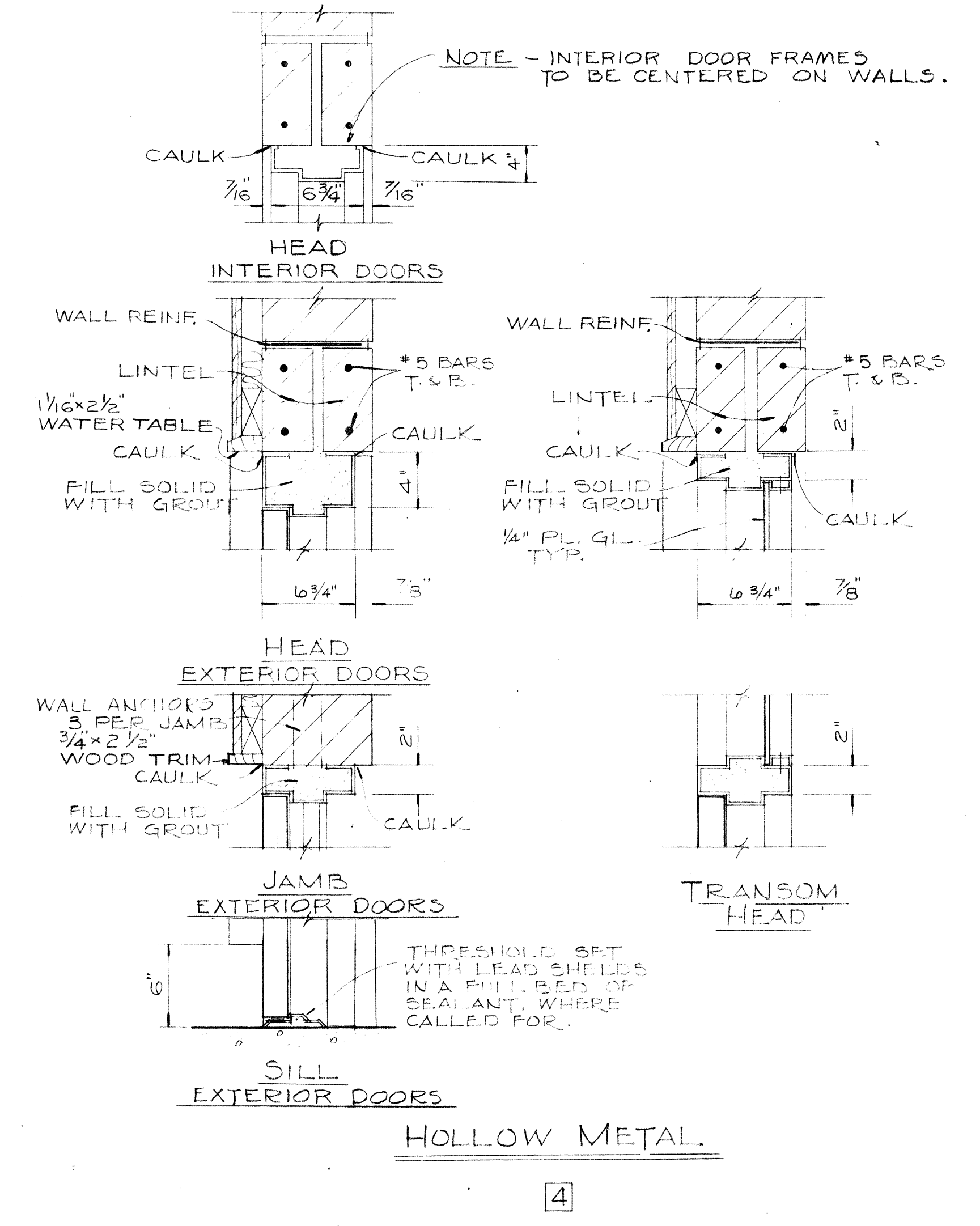
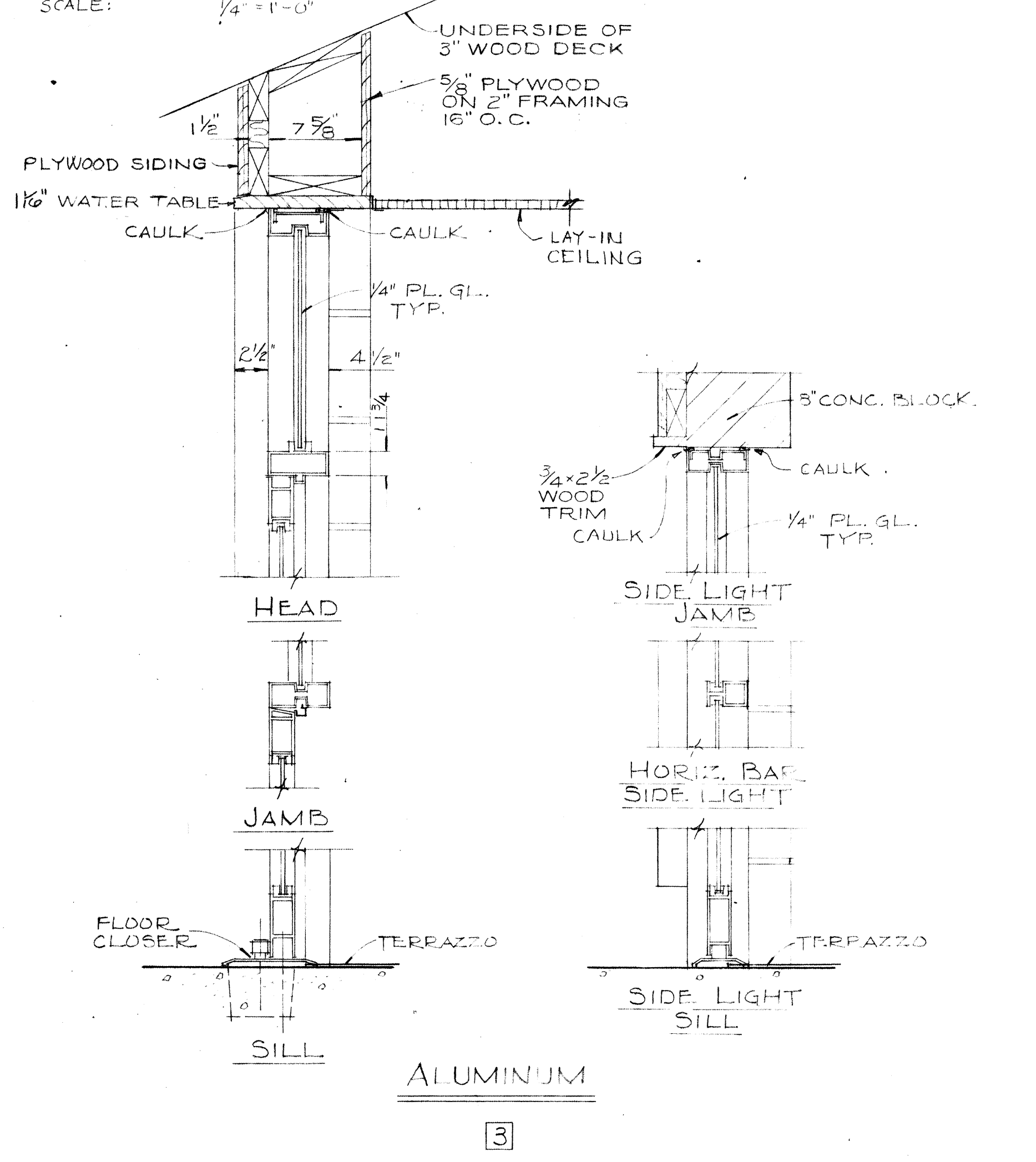
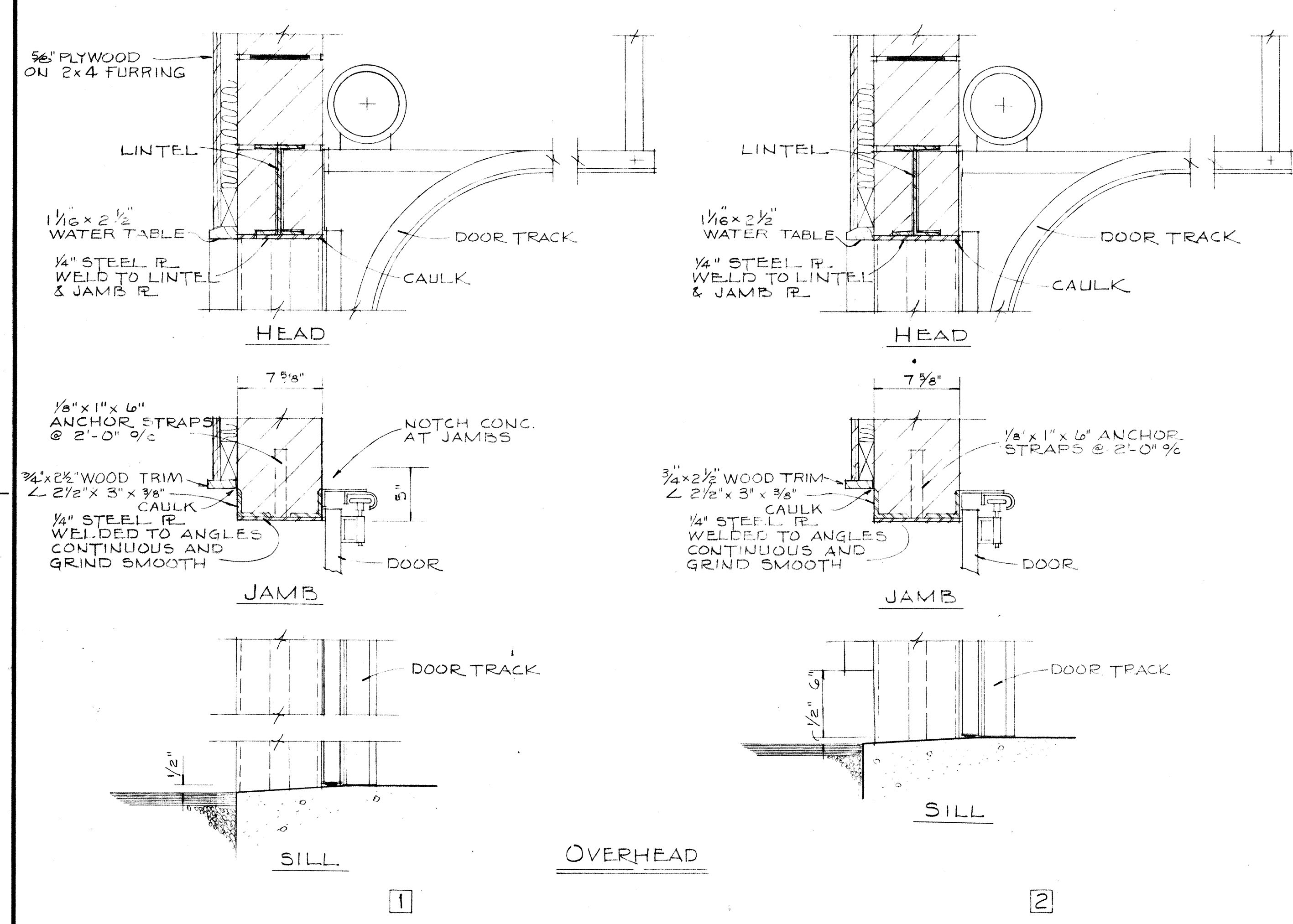
DELAWARE COUNTY, OHIO
OLENTANGY ENVIRONMENTAL CONTROL CENTER

MISCELLANEOUS DETAILS

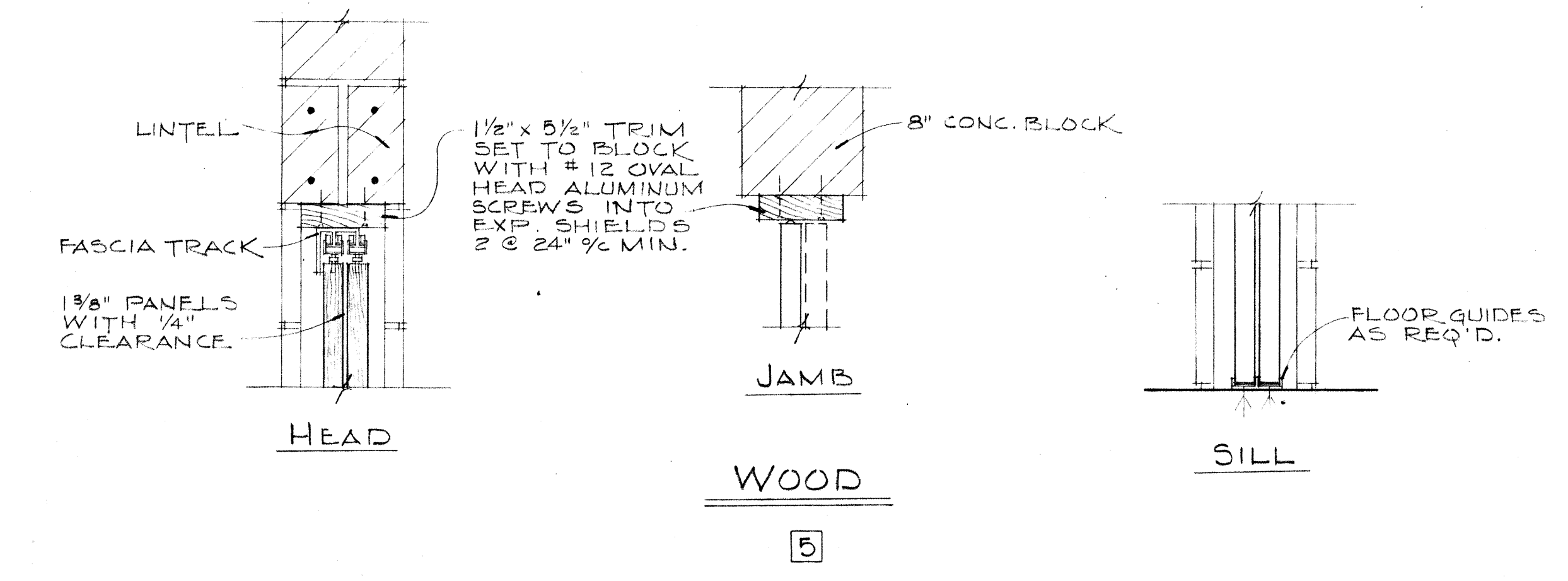
REVISIONS APRIL, 1975	DRAWN BY H.S. TRACED BY R.R.P.	CHECKED BY APPROVED BY
JUNE, 1973	SCALE: NONE	SHEET 53 OF 75



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



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



LOCATION	STYLE	QUAN.	TYPE	MATERIAL			DETAIL	LINTEL	REMARKS
				DOOR	FRAME	DETAIL			
CONTROL BLD'G.	M	1	FULL FLUSH	H.M.	H.M.	7	1-4" x 8" PRECAST CONC. x 4'-8" LG.		
	C	1	MED. STILE.	EXTRD. ALUM.	EXTRD. ALUM.	3	NONE. - SEE DETAIL.		
	E	3	FULL FLUSH	H.M.	H.M.	4	2-4" x 8" PRECAST CONC. x 4'-8" LG.		
	F	2	FULL FLUSH	H.M.	H.M.	4	2-4" x 8" PRECAST CONC. x 4'-0" LG.	INTERIOR	
	K	1	FULL FLUSH	WOOD	WOOD	5	2-4" x 8" PRECAST CONC. x 5'-8" LG.	INTERIOR	
BLOWER BLD'G.	D	1	FULL FLUSH	H.M.	H.M.	4	2-3 1/2" x 5" x 5/16" X-L'S x 7'-4" LG.		
	E	1	FULL FLUSH	H.M.	H.M.	4	2-4" x 8" PRECAST CONC. x 4'-8" LG.		
CONCENTRATOR BLD'G.	L	2 PAIR	SOLID STILE	WOOD	STL. JAMBS WOOD HEAD	6	6 3/4" x 13 1/2" LAM. WOOD	SEE SHT. #54A FOR DETAILS	
	A	1	OVERHEAD	GALV. STL.	STEEL BUILT-UP	1	1-3BX184 1/4" x 7" # (WELDED) x 13'-4" LG.	NOTCH FOR 5" EA. END TO 7 1/2"	
	D	1	FULL FLUSH	H.M.	H.M.	4	2-4" x 8" PRECAST CONC. x 7'-4" LG.		
	E	4	FULL FLUSH	H.M.	H.M.	4	2-4" x 8" PRECAST CONC. x 4'-8" LG.		
	J	1	FULL FLUSH	H.M.	H.M.	4	2-4" x 8" PRECAST CONC. x 4'-8" LG.		
TERTIARY BLD'G.	B	1	OVERHEAD	GALV. STL.	STEEL BUILT-UP	2	1-5BX184 1/4" T # (WELDED) x 8'-4" LG.	NOTCH FOR 5" EA. END TO 7 1/2"	
	D	1	FULL FLUSH	H.M.	H.M.	4	1-CBX11.5 1/4" x 7" # (WELDED) x 7'-4" LG.		
SCREW PUMP BLD'G.	E	3	FULL FLUSH	H.M.	H.M.	4	2-4" x 8" PRECAST CONC. x 4'-8" LG.		
	E	1	FULL FLUSH	H.M.	H.M.	4	2-4" x 8" PRECAST CONC. x 4'-8" LG.		

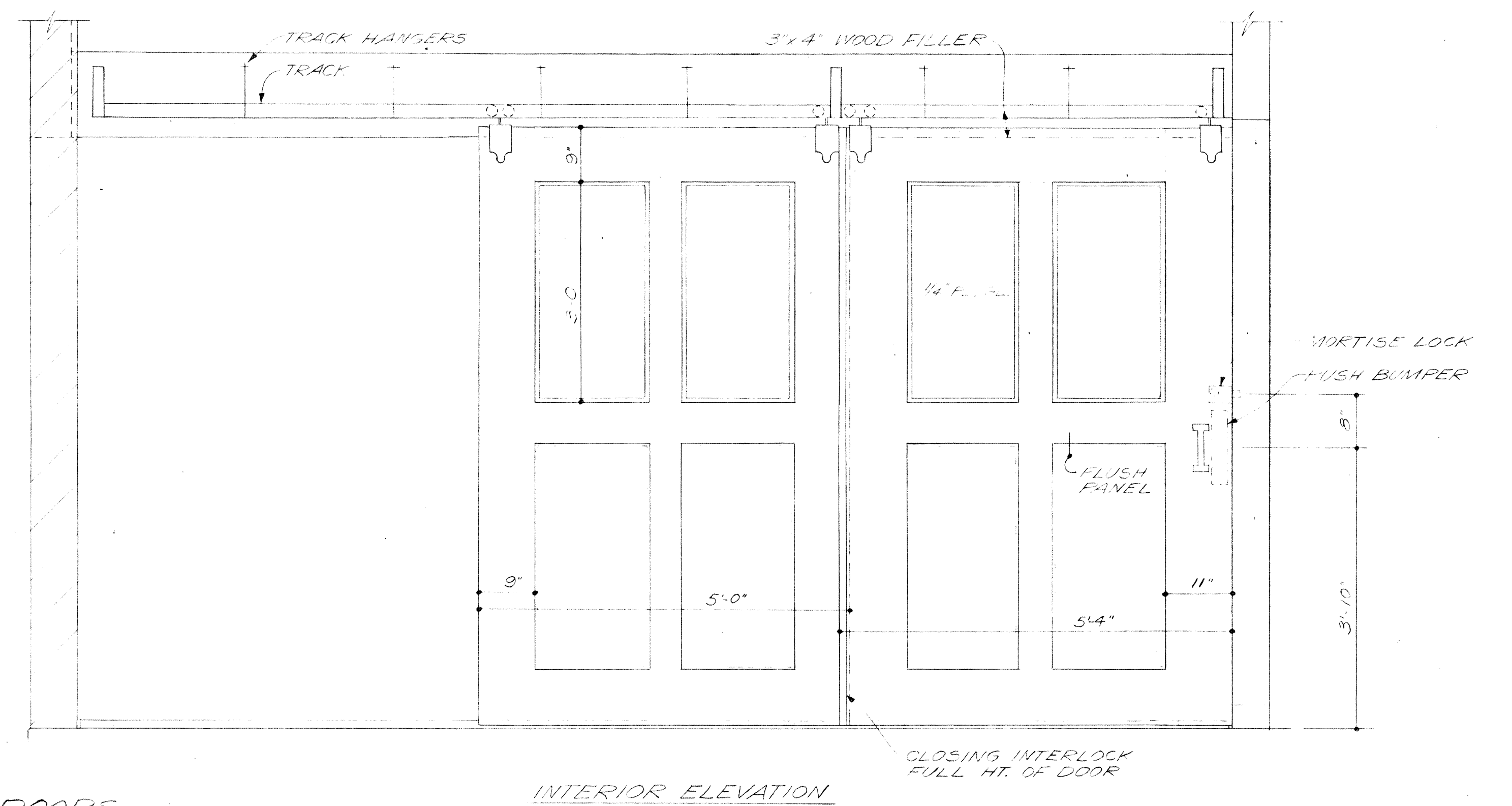
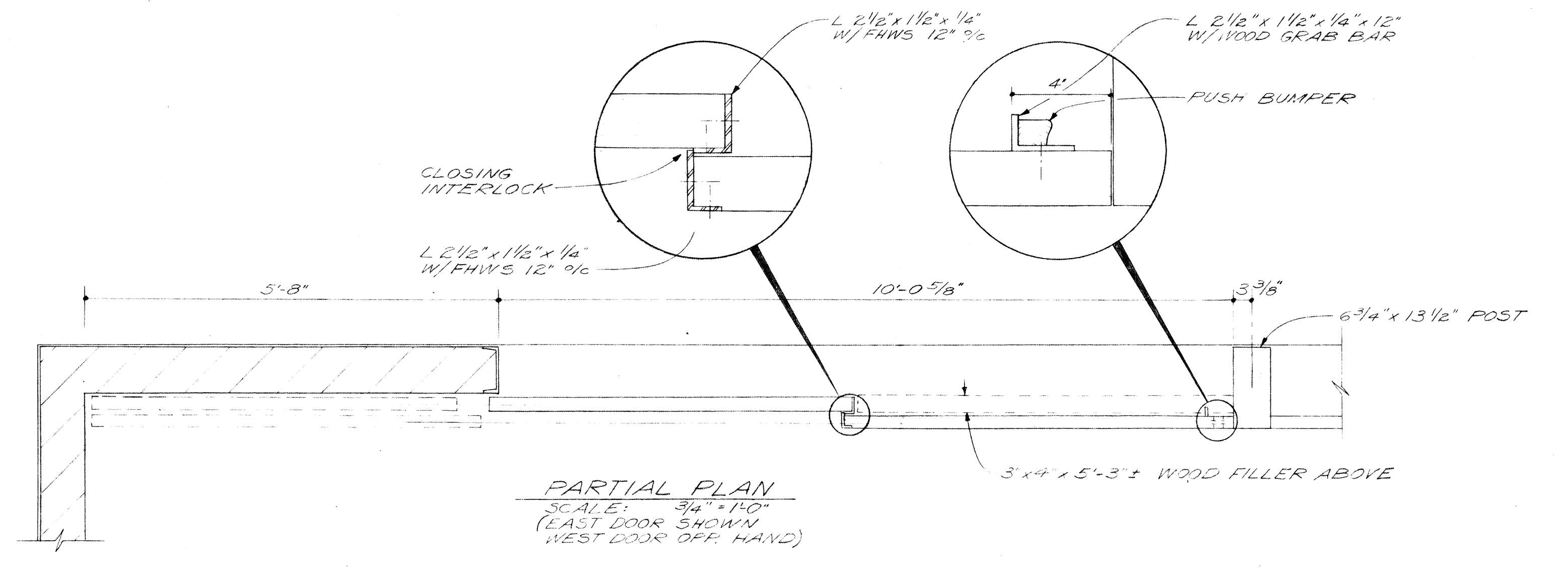
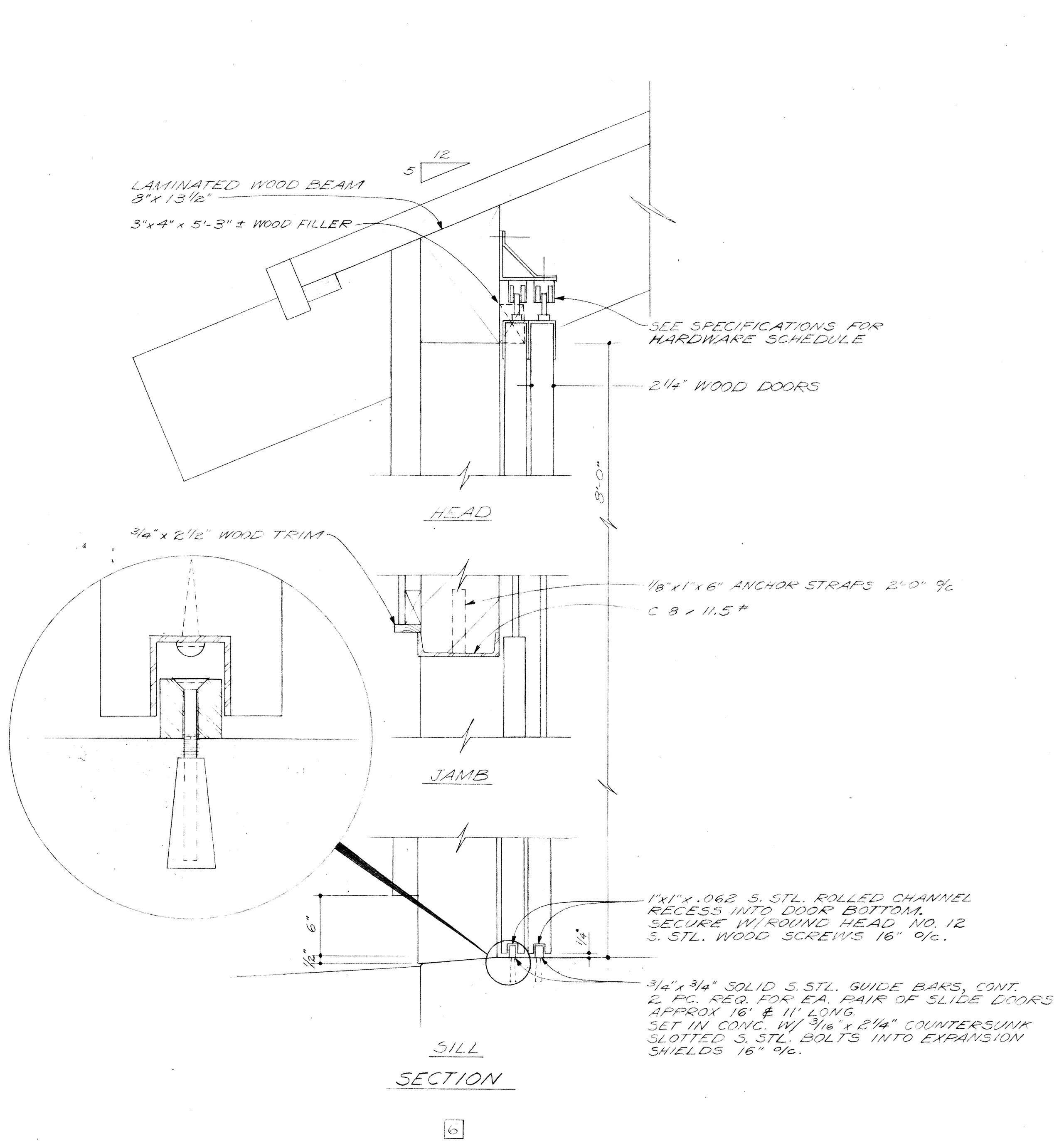
NOTE: DETAILS 6 & 7 ARE ON SHT #54-A.

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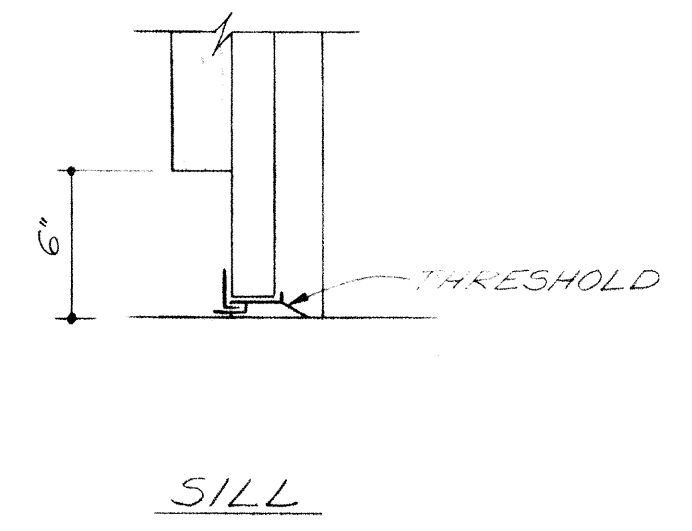
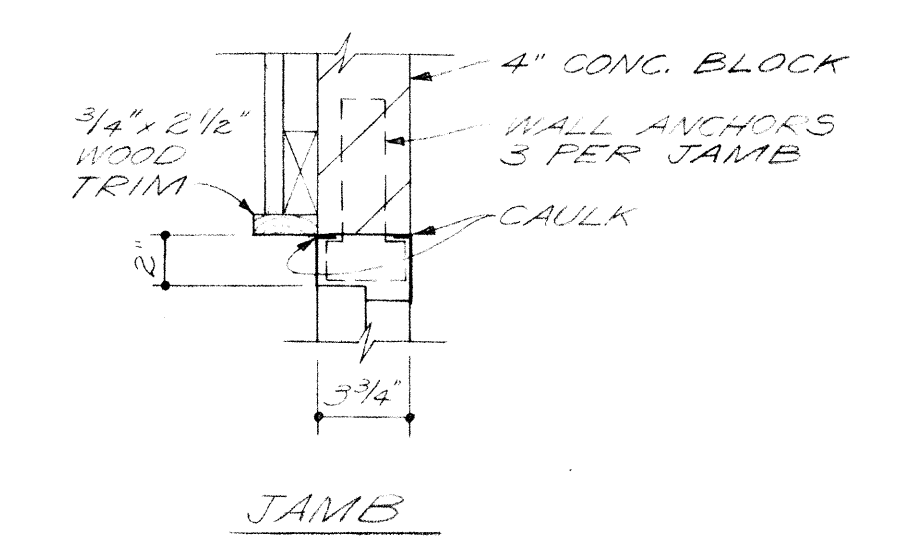
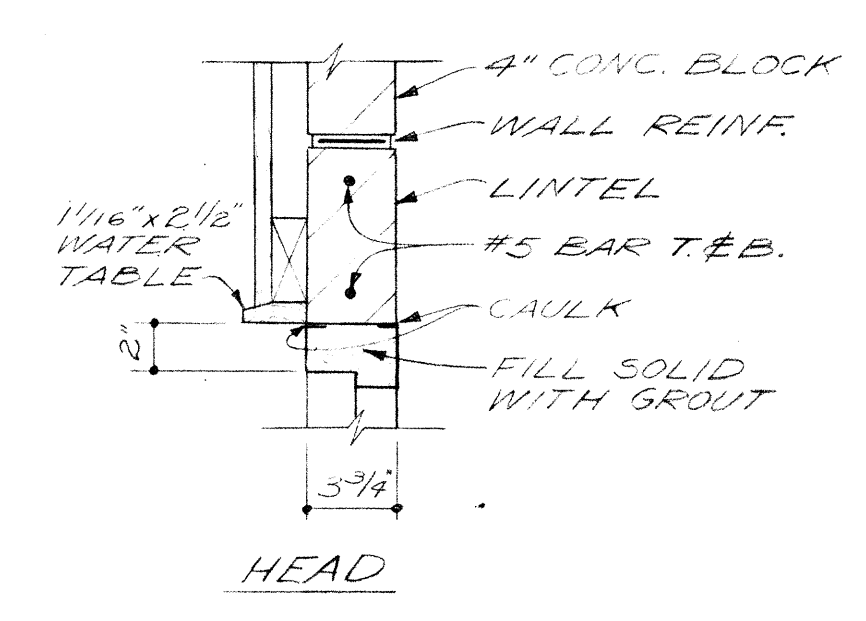
DELAWARE COUNTY, OHIO
OLENTANGY ENVIRONMENTAL CONTROL CENTER

DOOR DETAILS

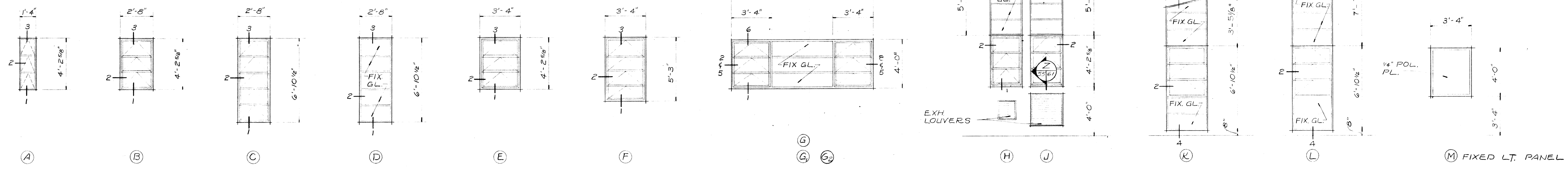
REVISIONS APRIL, 1975	DRAWN BY WJN	CHECKED BY
JUNE, 1973	TRACED BY DEH	APPROVED BY
SCALE: NONE	SHEET 54 OF 75	



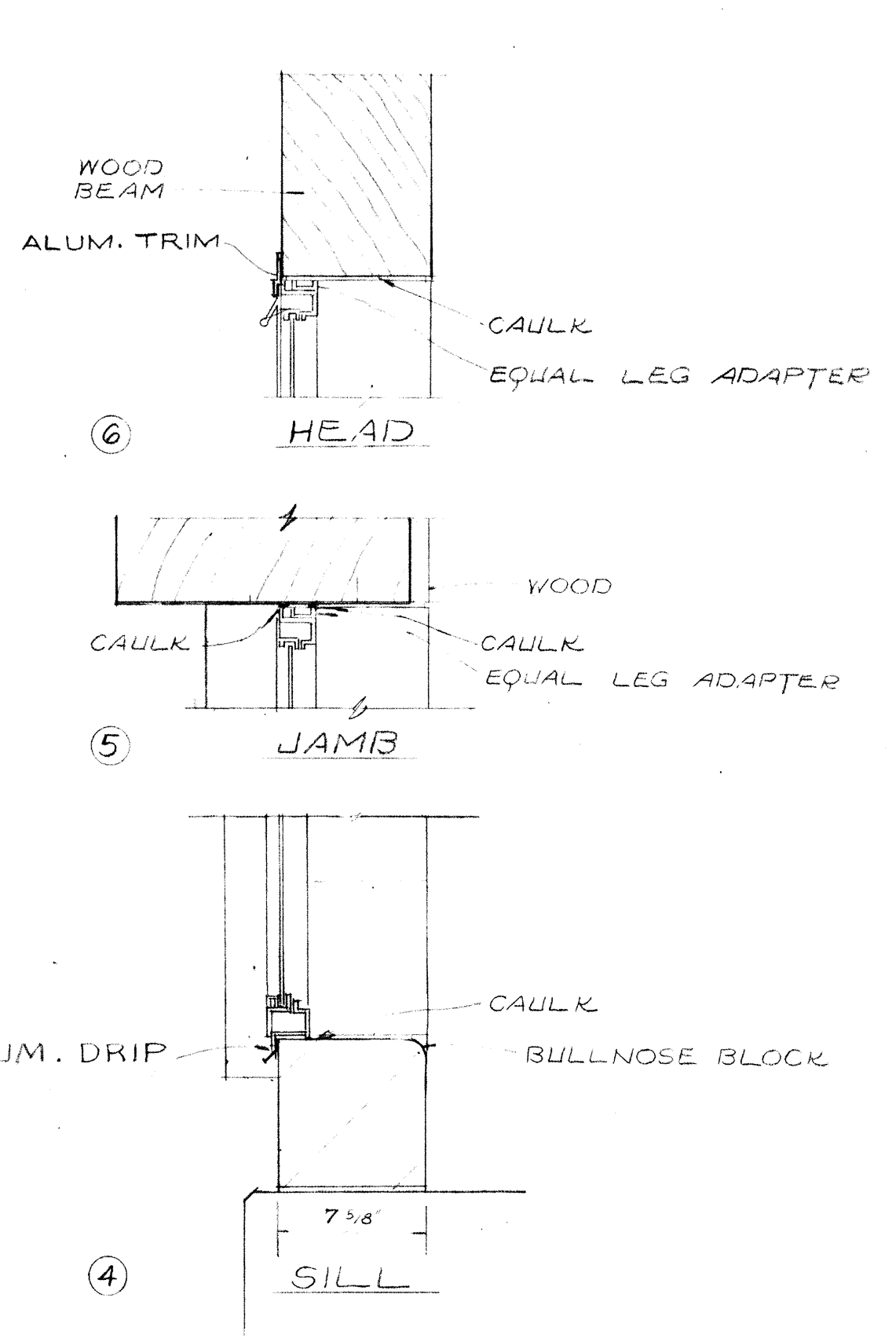
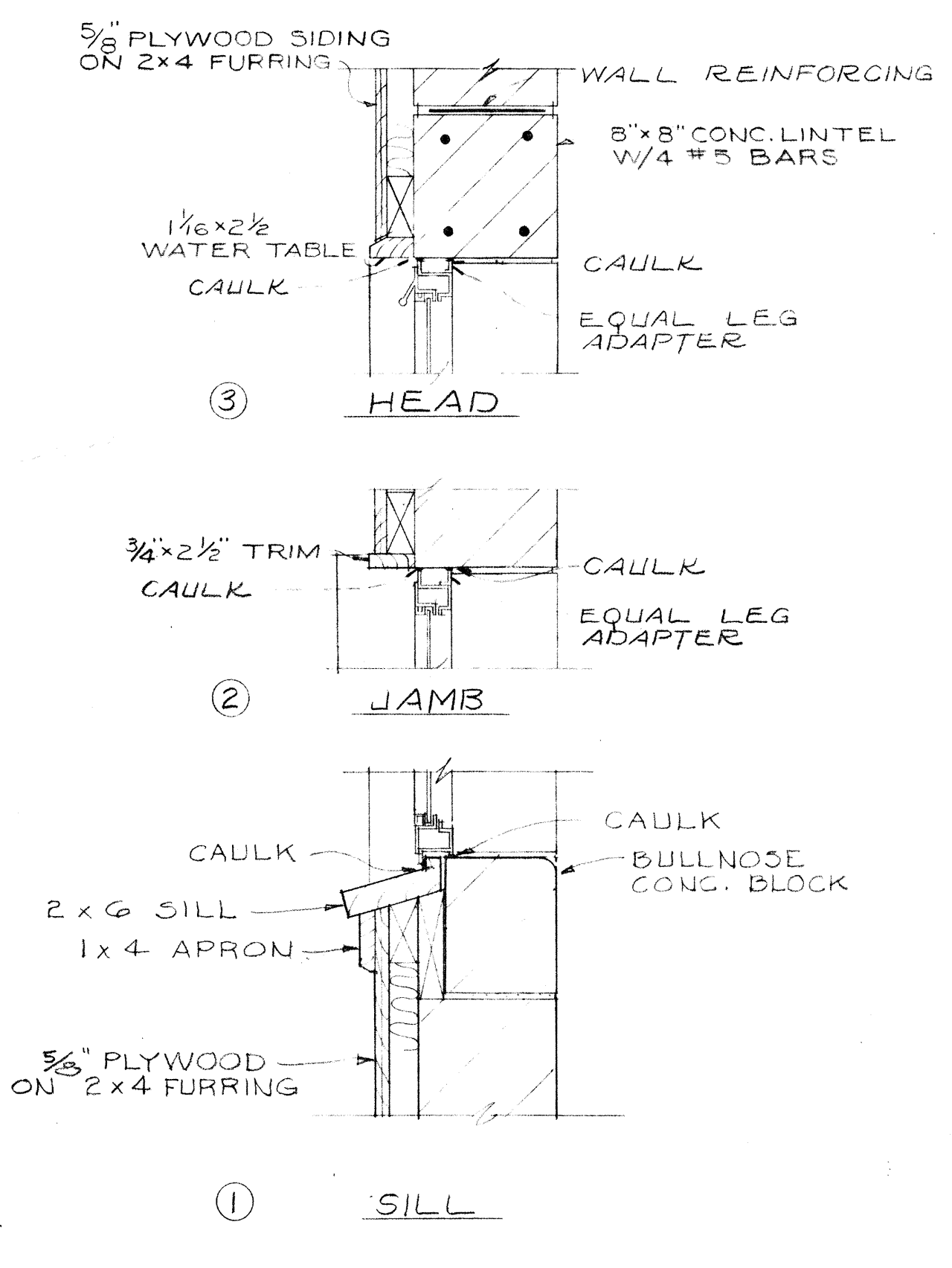
SLIDING WOOD DOORS



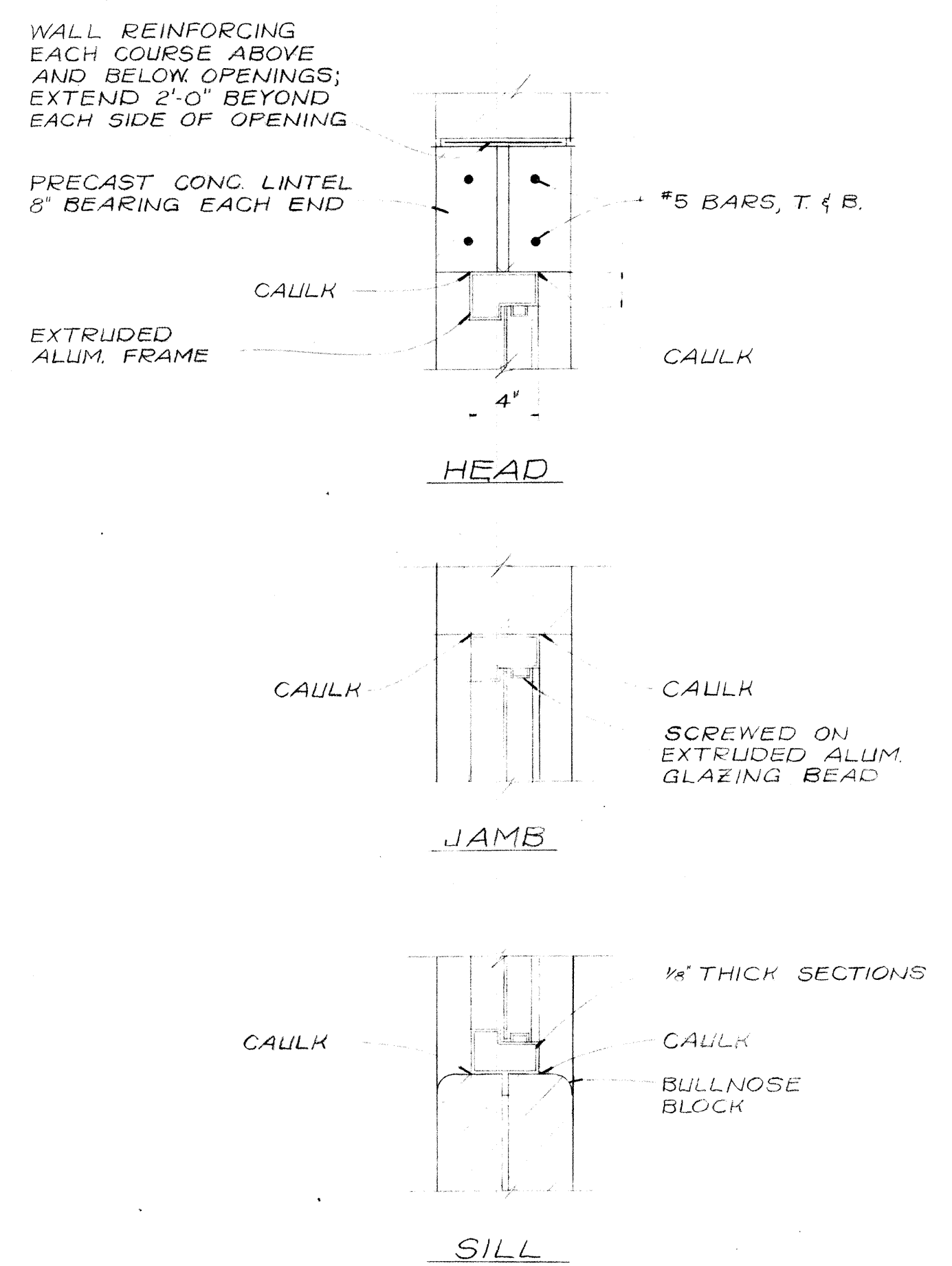
BURGESS & NIPLE, LIMITED		CONSULTING ENGINEERS
COLUMBUS, OHIO		
DELAWARE COUNTY, OHIO		
OLENTANGY ENVIRONMENTAL CONTROL CENTER		
DOOR DETAILS		
REVISIONS APRIL, 1975	DRAWN BY J.N. TRACED BY G.M.D.	CHECKED BY APPROVED BY
JUNE, 1973	SCALE: NONE	SHEET 54-A OF 75



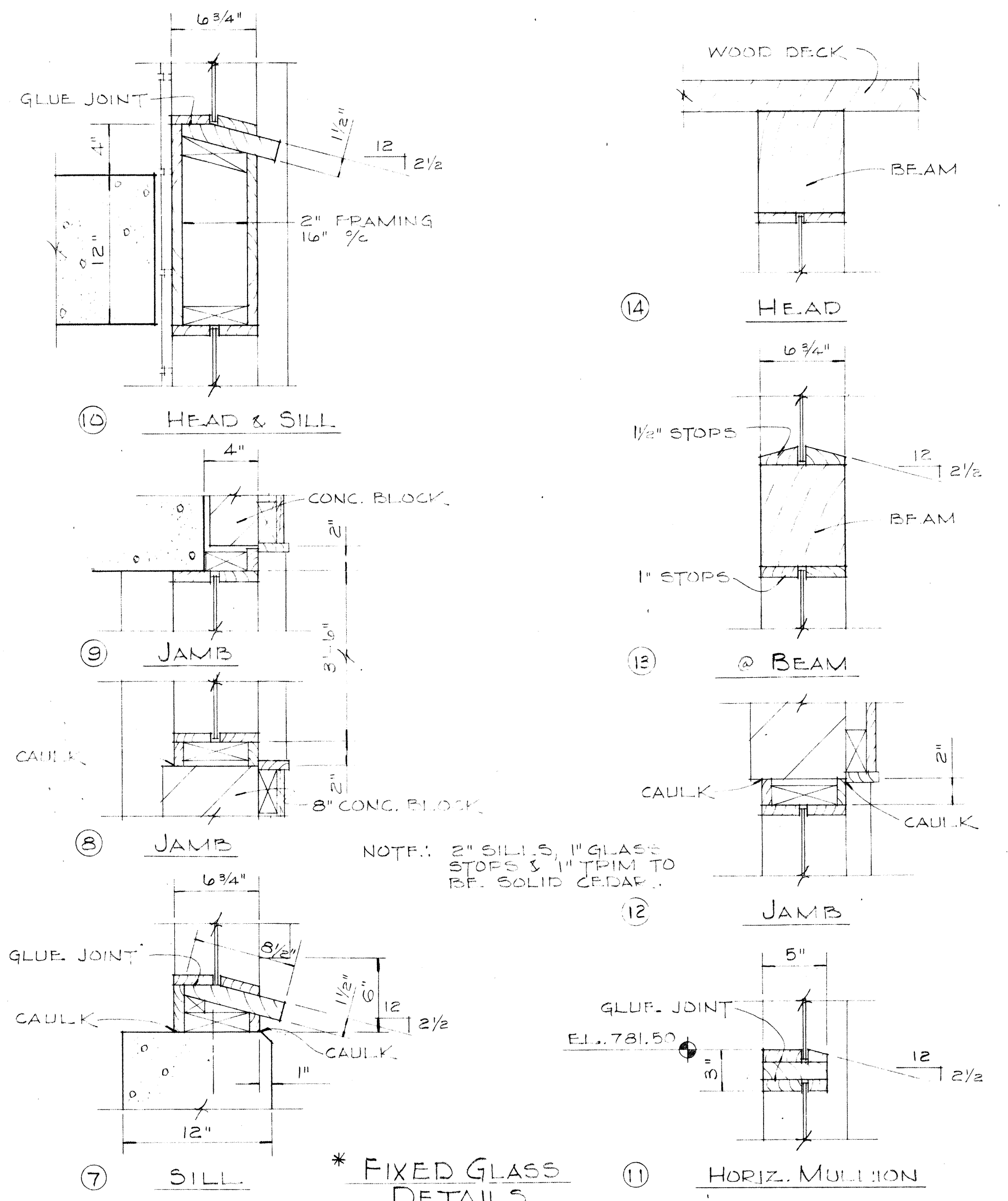
WINDOW ELEVATIONS



WINDOW DETAILS

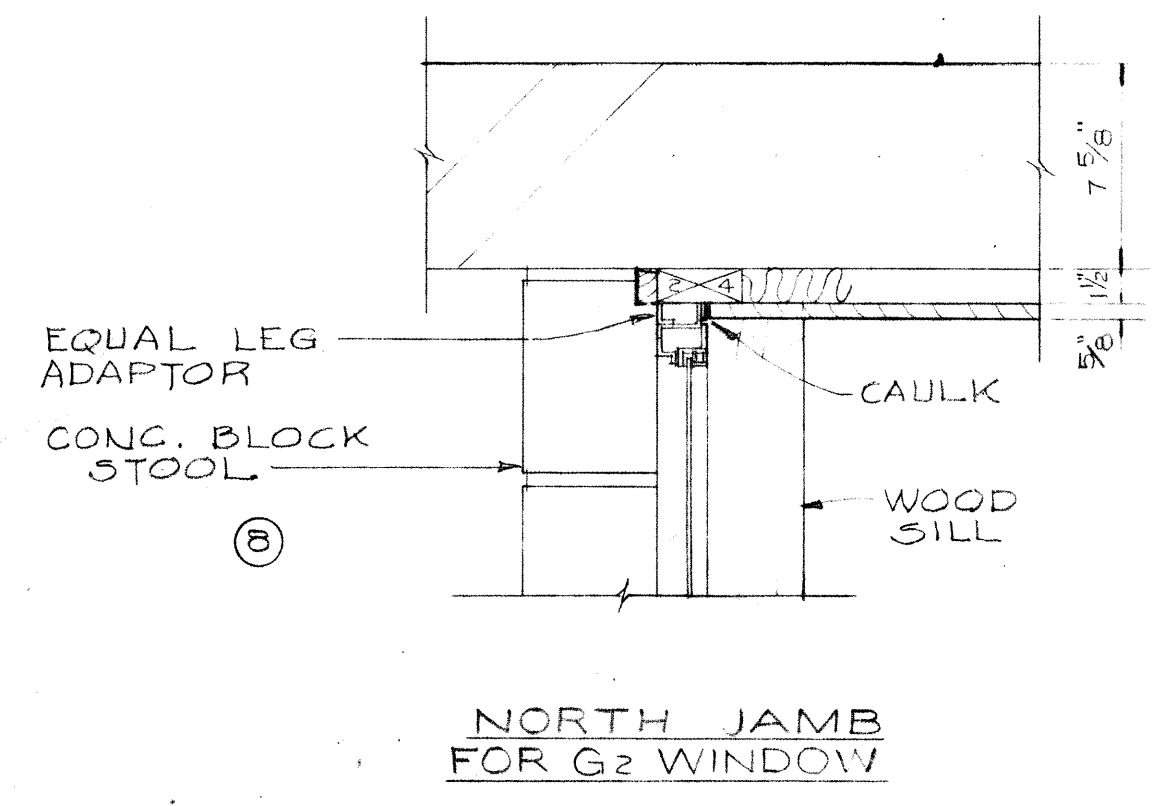


FIXED LIGHT PANEL DETAIL
SCALE: NONE

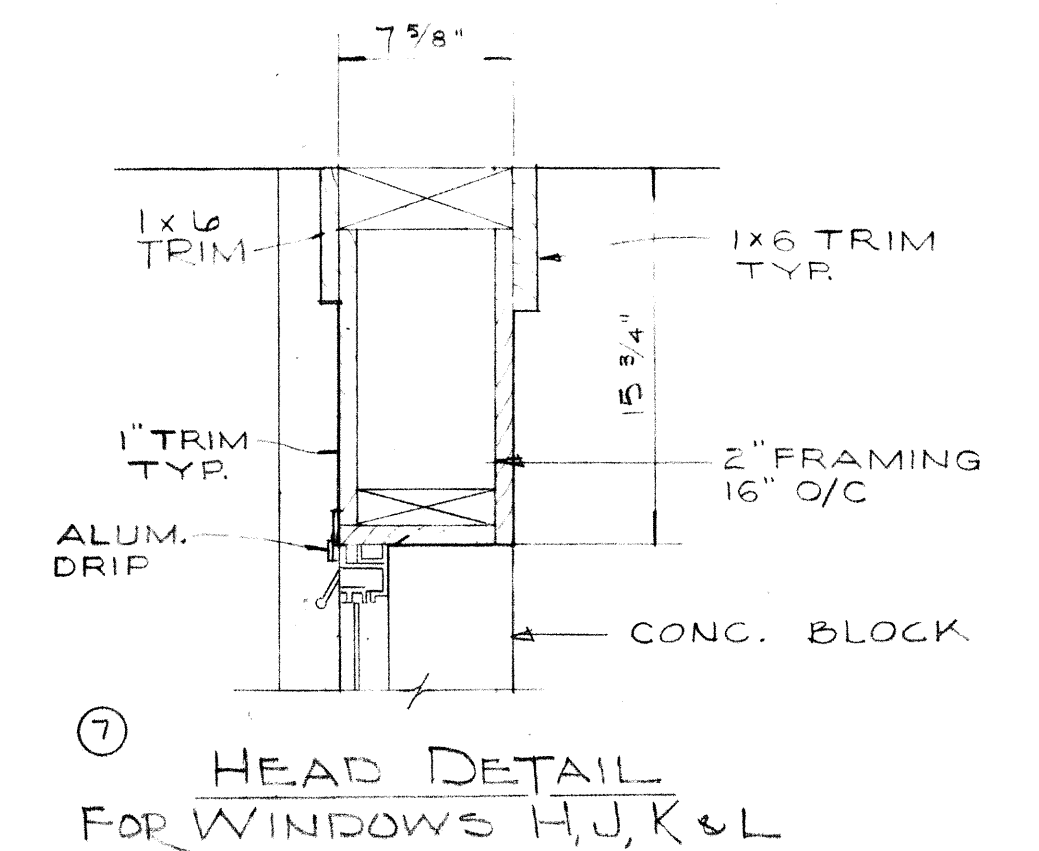


* FIXED GLASS DETAILS

* NOTE: DETAILS ARE 1/2" = 1'-0" SCALE. SEE SHT. #35 FOR ELEVATION AND DETAIL LOCATIONS ON TERTIARY BUILDING.



NORTH JAMB FOR G2 WINDOW



HEAD DETAIL FOR WINDOWS H, J, K & L

WINDOW SCHEDULE

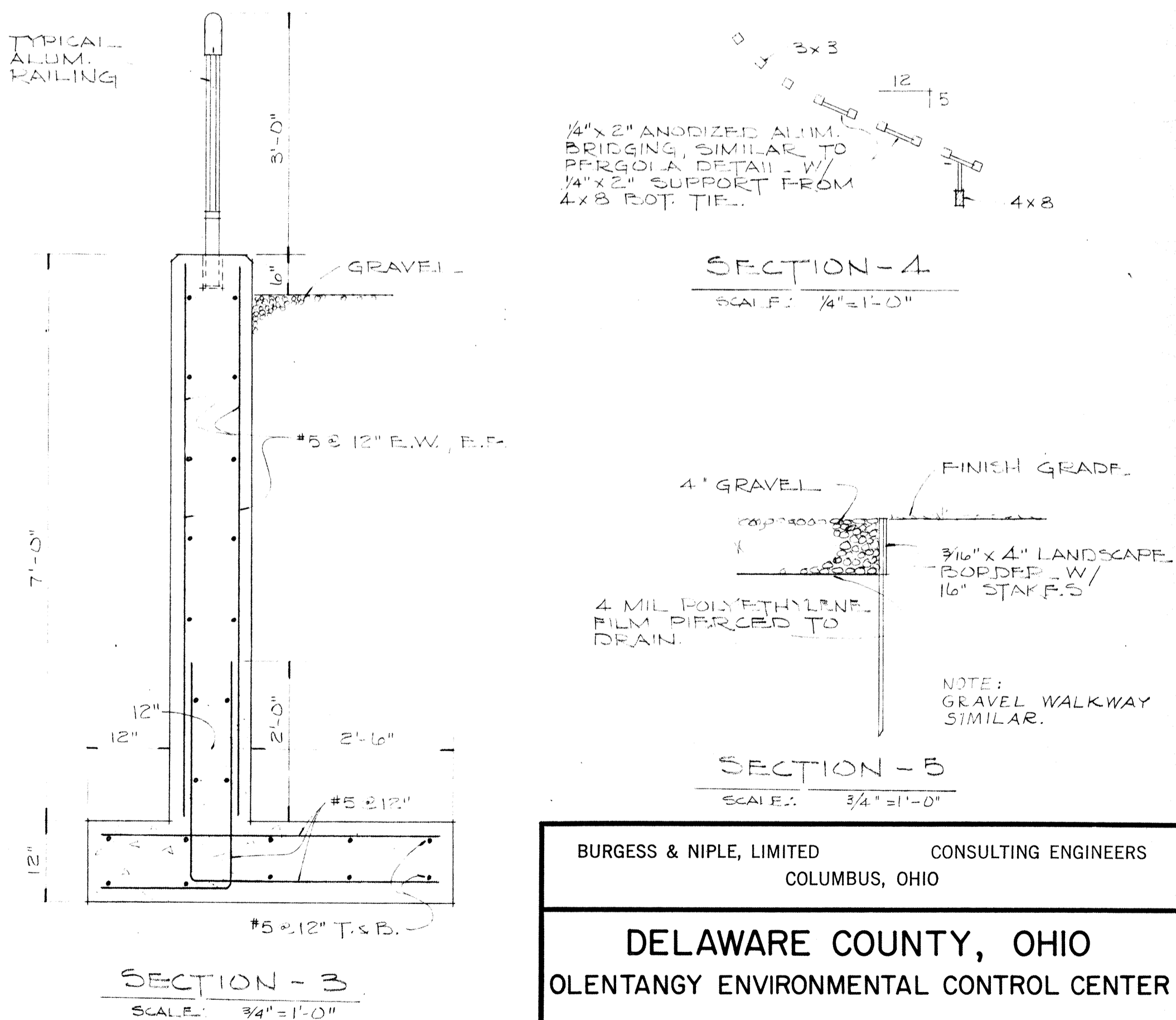
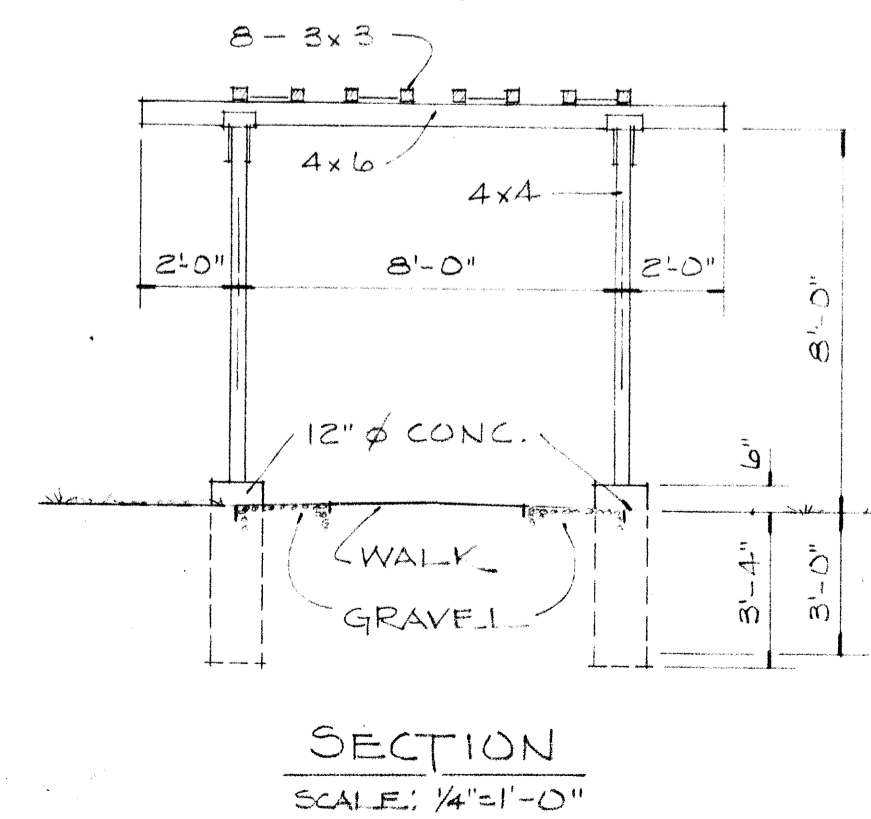
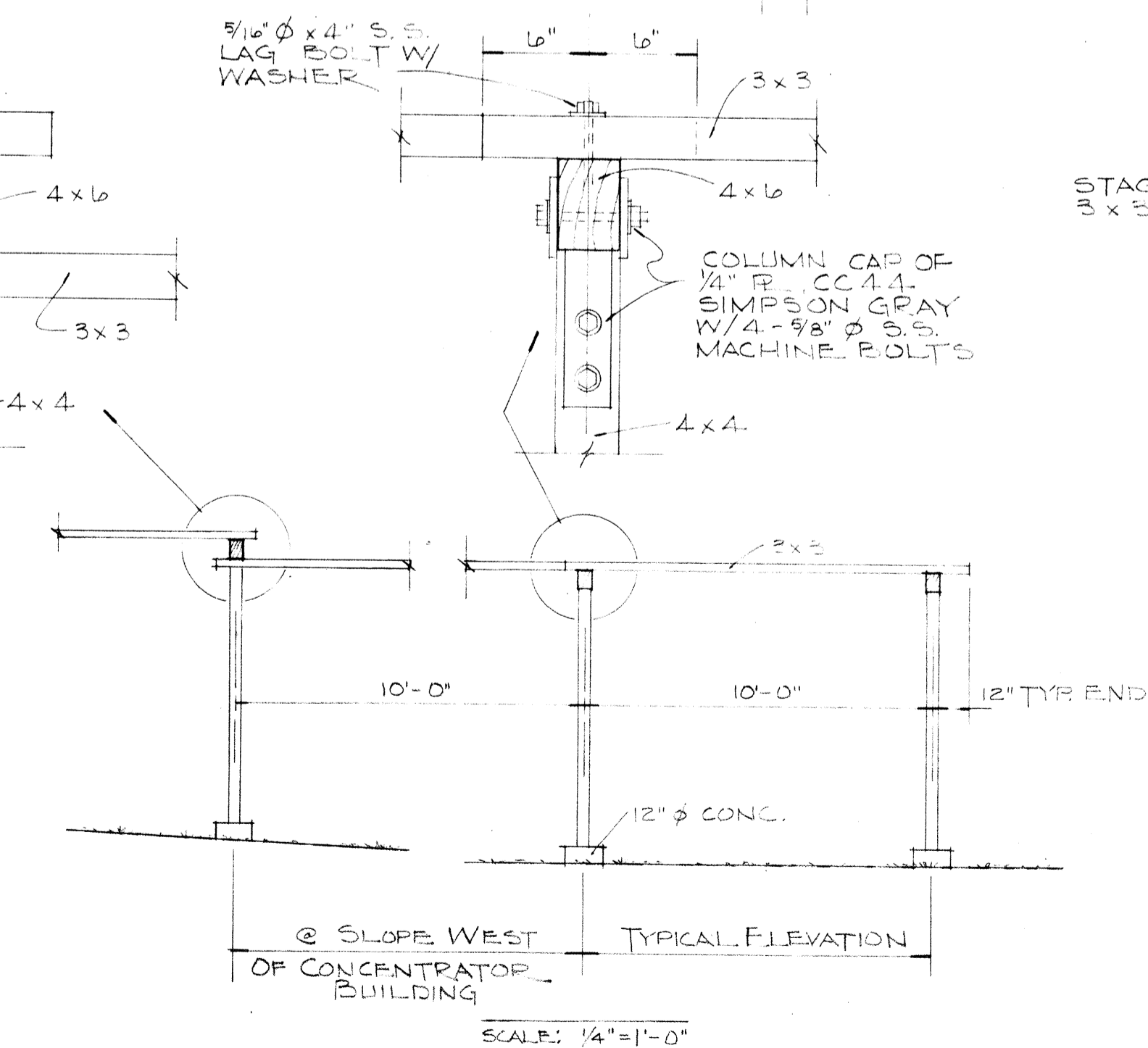
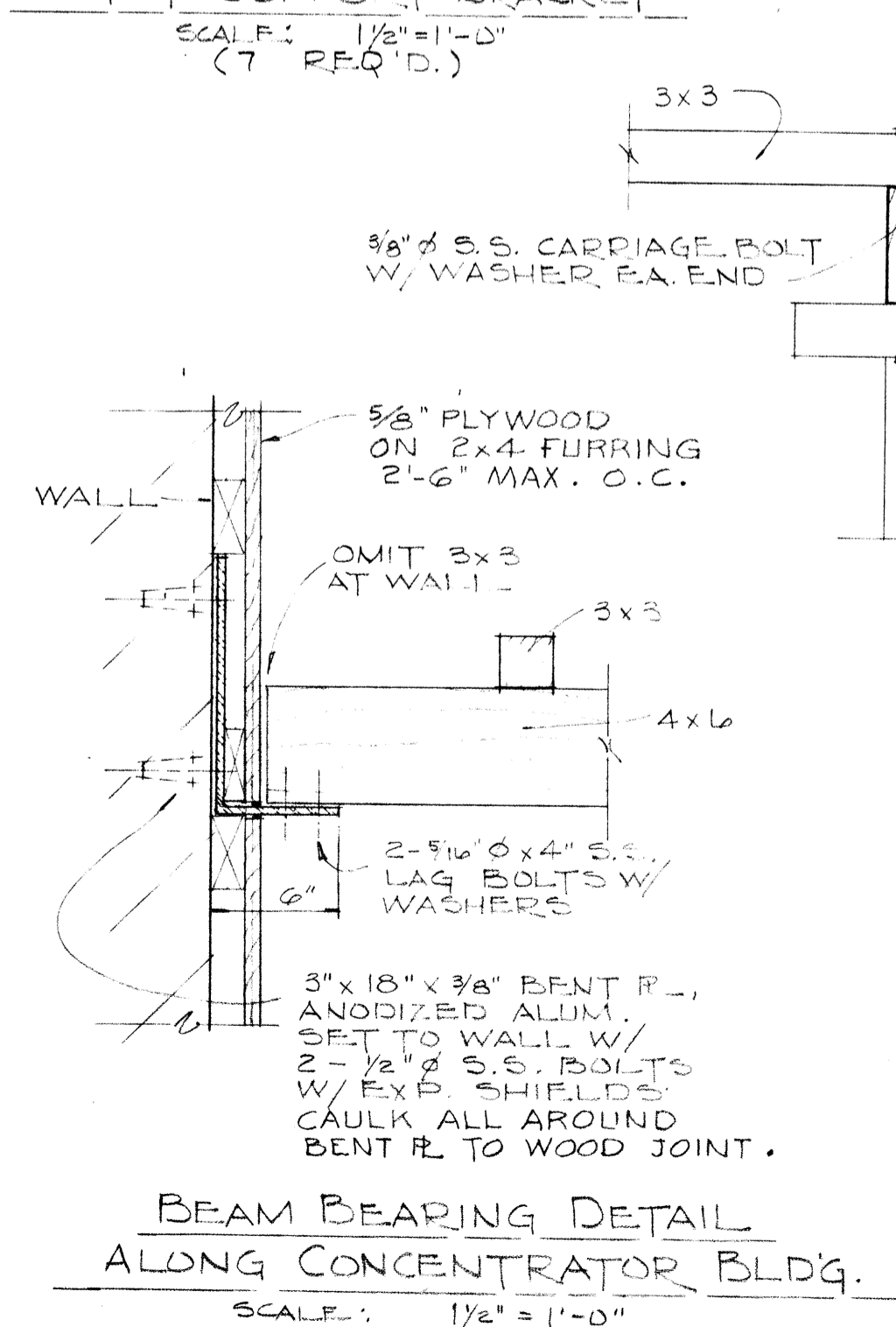
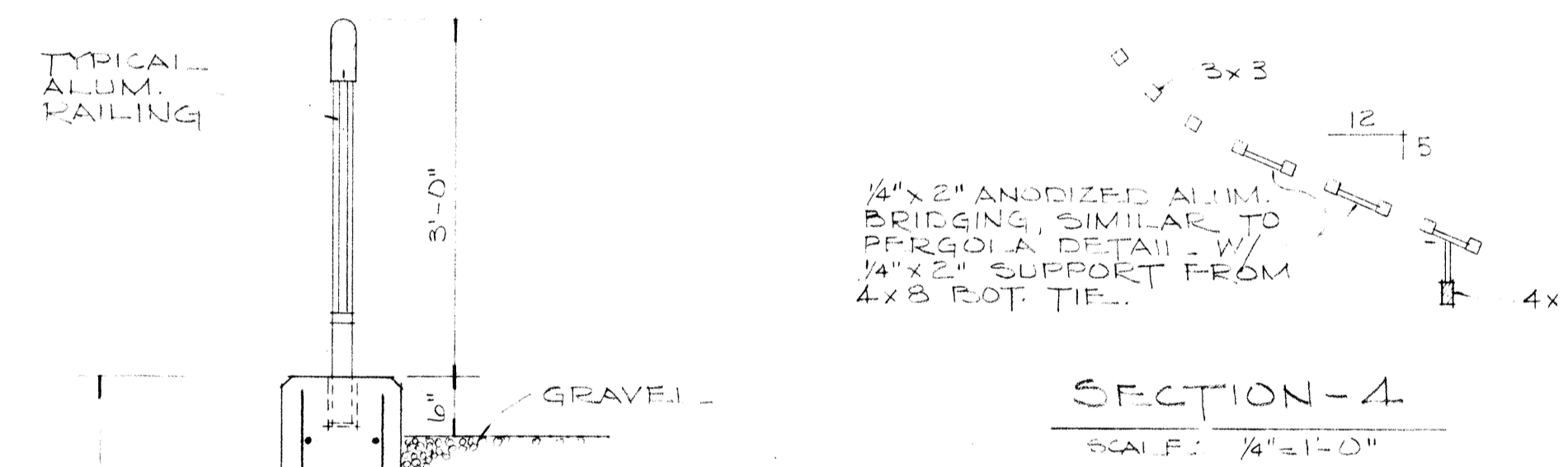
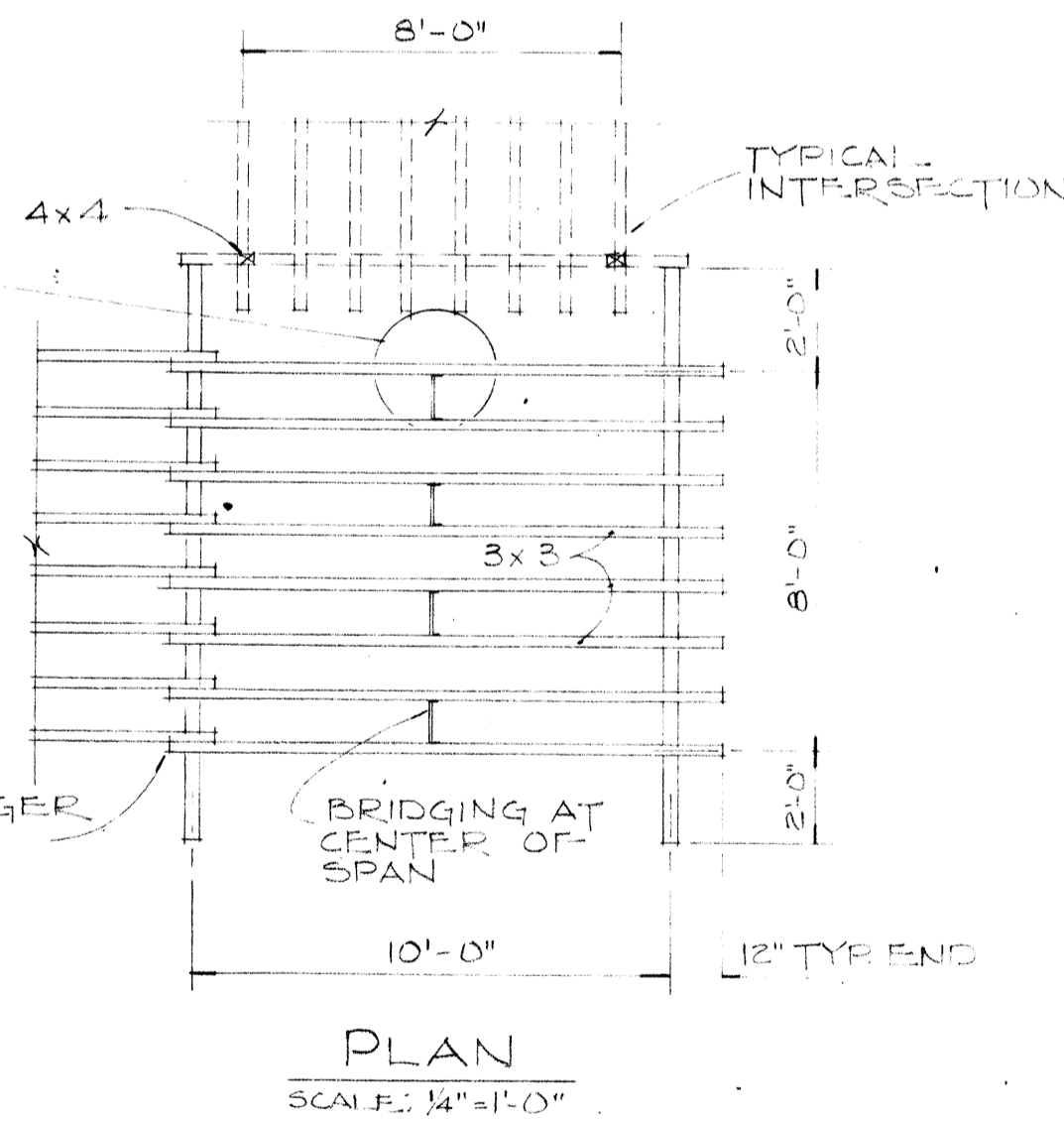
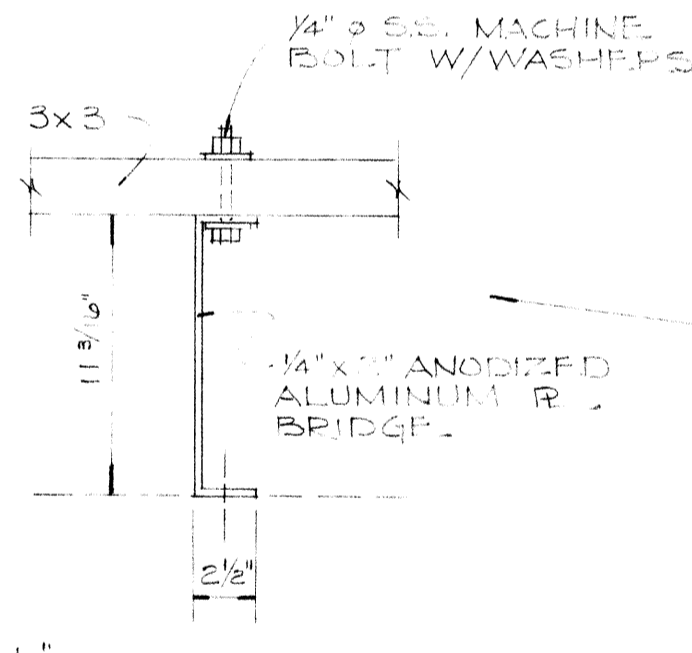
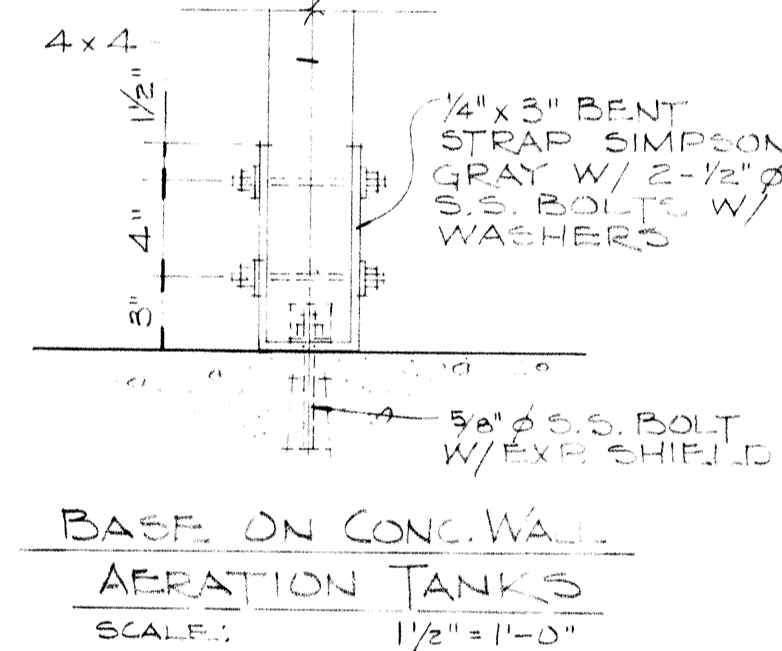
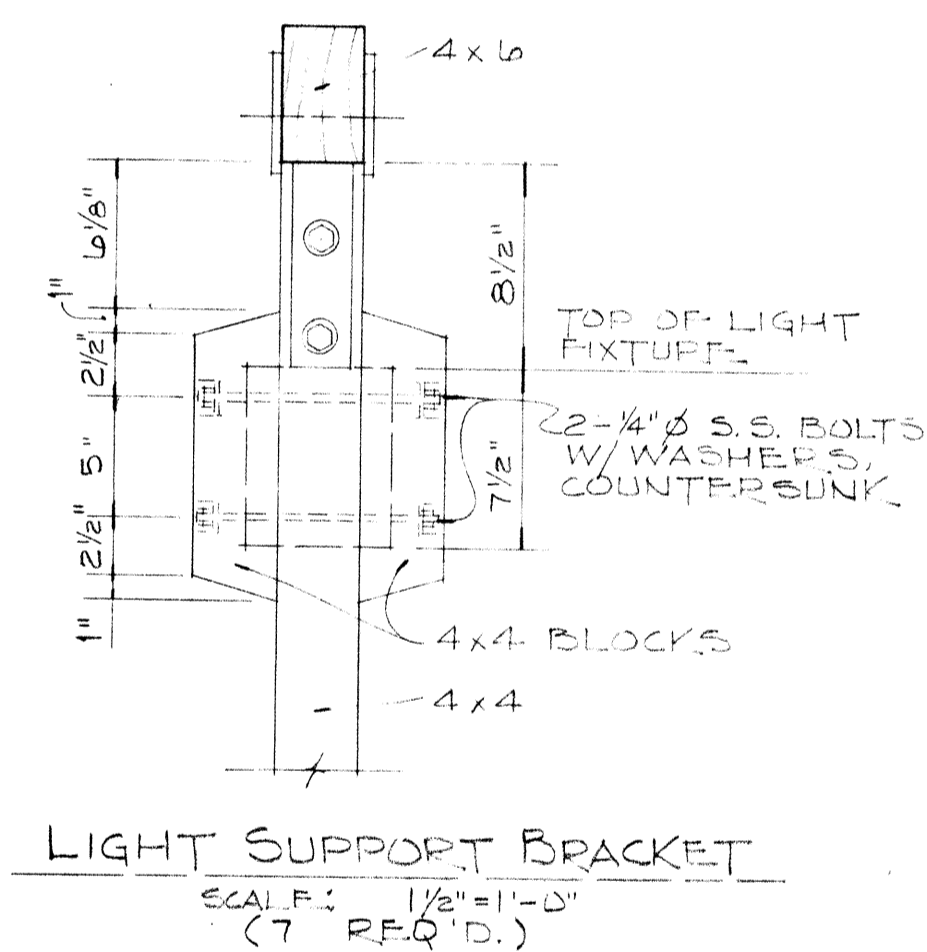
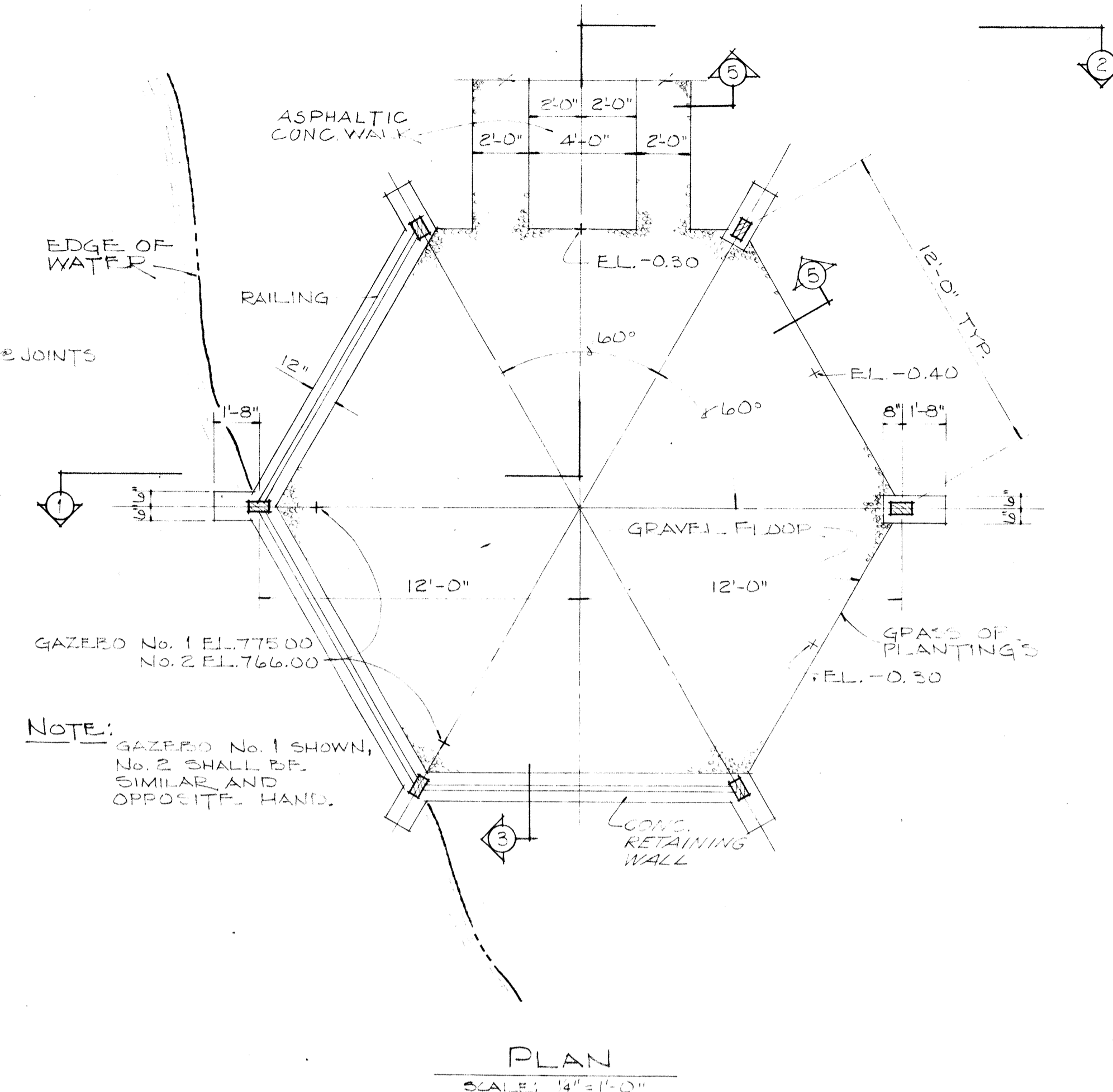
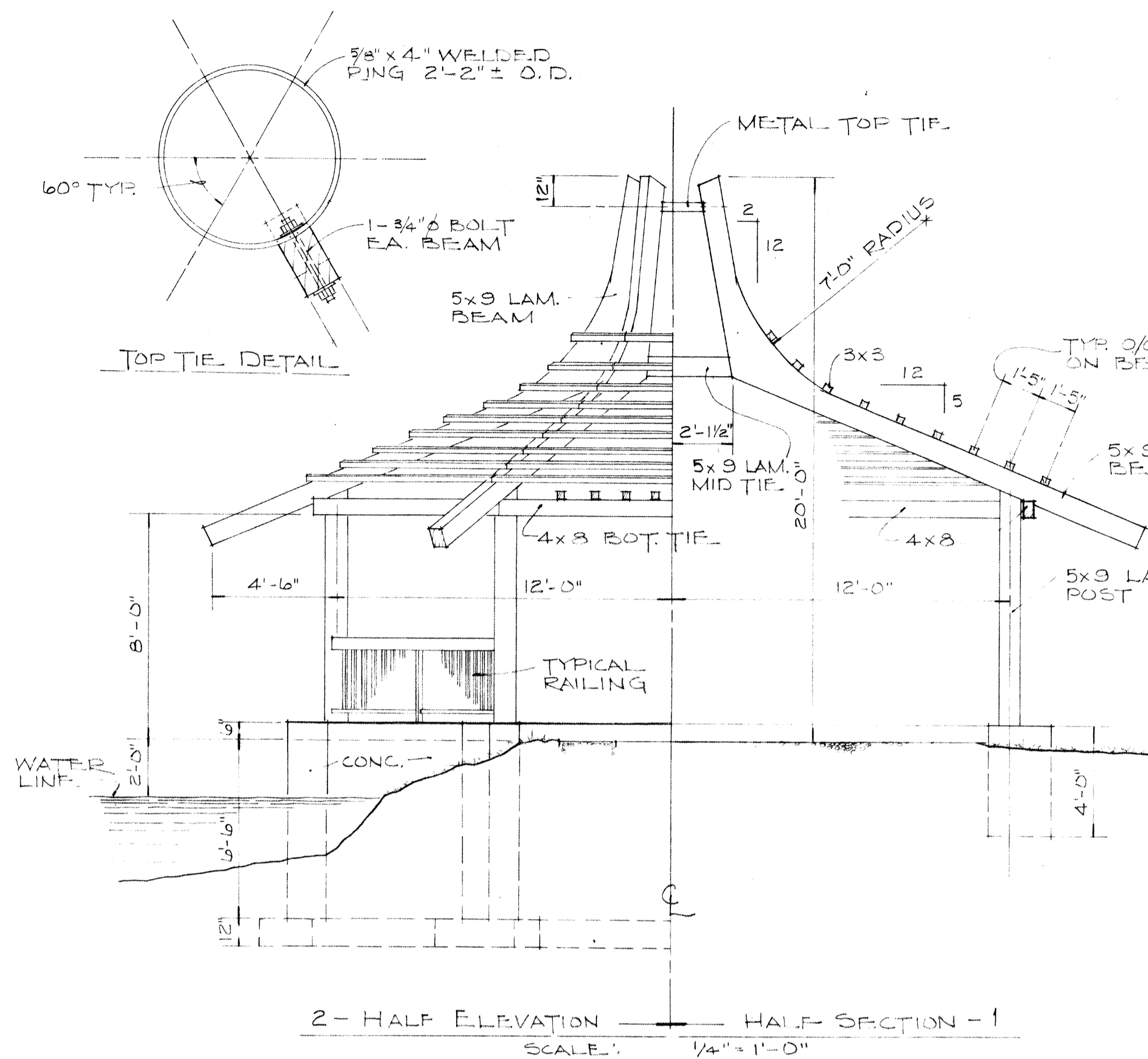
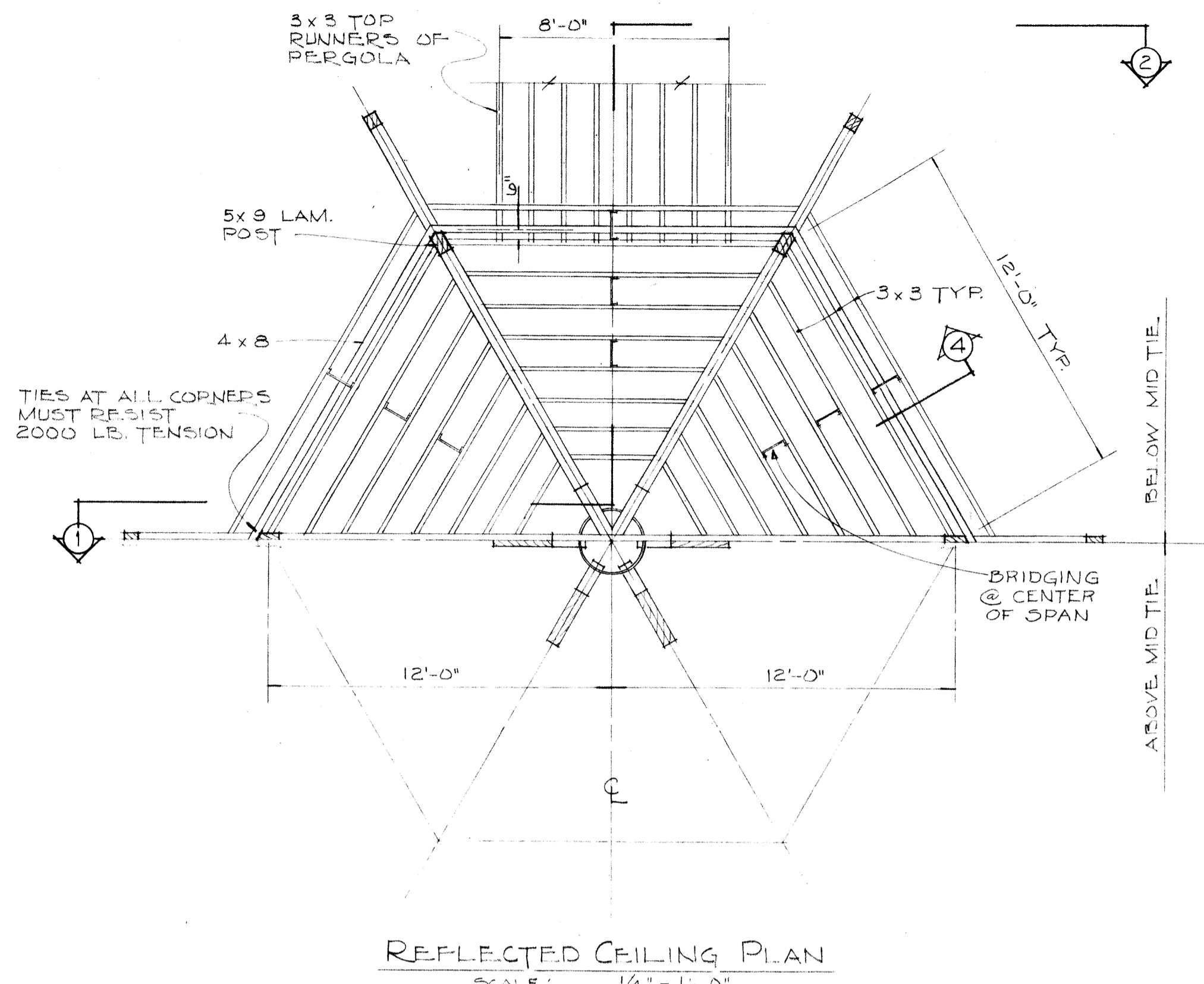
MARK	QUAN.	TYPE	MATERIAL	DETAIL	LINTEL	REMARKS
A	2	AWNING	EXTRD. ALUM.	1, 2 x 3	2'-4" x 8" PRECAST CONC. x 2'-8" LG.	
B	3	AWNING	EXTRD. ALUM.	1, 2 x 3	1'-8" x 8" PRECAST CONC. x 4'-0" LG.	
C	2	AWNING	EXTRD. ALUM.	1, 2 x 3	1'-8" x 8" PRECAST CONC. x 4'-0" LG.	
D	2	AWNING	EXTRD. ALUM.	1, 2 x 3	1'-8" x 8" PRECAST CONC. x 4'-8" LG.	
F	4	AWNING	EXTRD. ALUM.	1, 2 x 3	1'-8" x 8" PRECAST CONC. x 4'-8" LG.	
G	1	2-AWN; 1-FIXD	EXTRD. ALUM.	1, 2, 5 x 6	ROOF FRAMING BEAM.	
G1	1	2-AWN; 1-FIXD	EXTRD. ALUM.	1, 5 x 6	ROOF FRAMING BEAM.	
H	1	3-AWN; 4-FIXD	EXTRD. ALUM.	1, 2 x 7	BUILT-UP WOOD	EXTRD. ALUM. SILL
J	1	3-AWN; 4-FIXD	EXTRD. ALUM.	1, 2 x 7	BUILT-UP WOOD	EXTRD. ALUM. SILL
K	1	3-AWN; 5-FIXD	EXTRD. ALUM.	4, 2 x 7	BUILT-UP WOOD	
L	1	3-AWN; 7-FIXD	EXTRD. ALUM.	4, 2 x 7	BUILT-UP WOOD	
M	1	FIXED SASH	EXTRD. ALUM.	FIXED LT.	2'-4" x 8" PRECAST CONC. x 4'-8" LG.	INTERIOR
G2	1	2-AWN; 1-FIX	EXTRD. ALUM.	1, 5, 6, 8	ROOF FRAMING BEAM.	

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WINDOW DETAILS

REVISIONS APRIL, 1975	DRAWN BY WJN TRACED BY RMW	CHECKED BY APPROVED BY
JUNE, 1973	SCALE: NONE	SHEET 55 OF 75

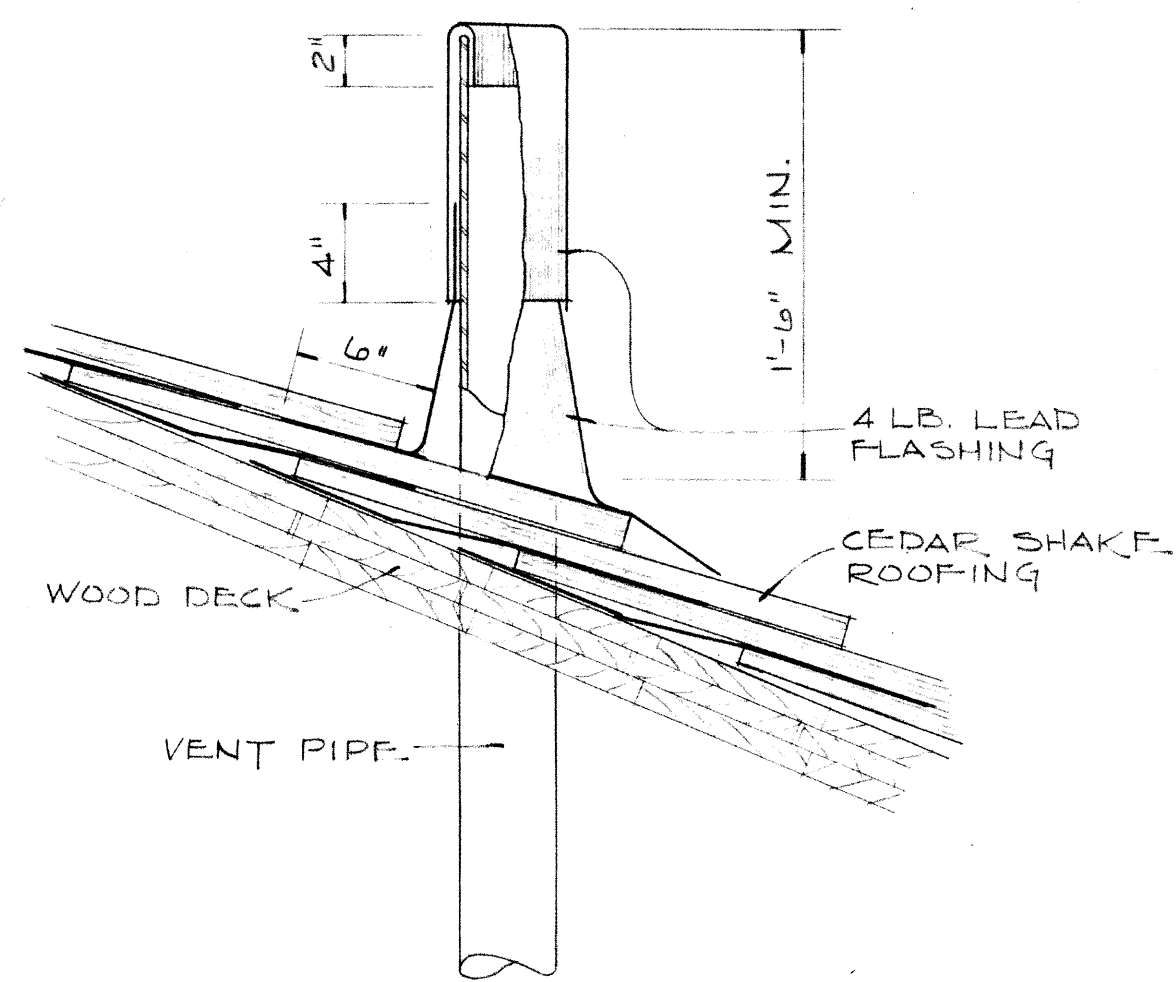


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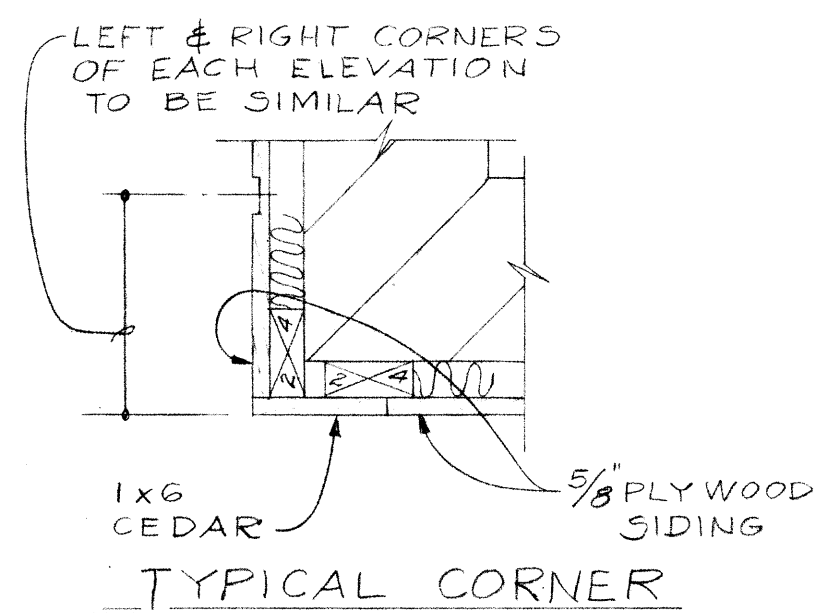
DELAWARE COUNTY, OHIO
OLENTANGY ENVIRONMENTAL CONTROL CENTER

GAZEBO & PERGOLA DETAILS

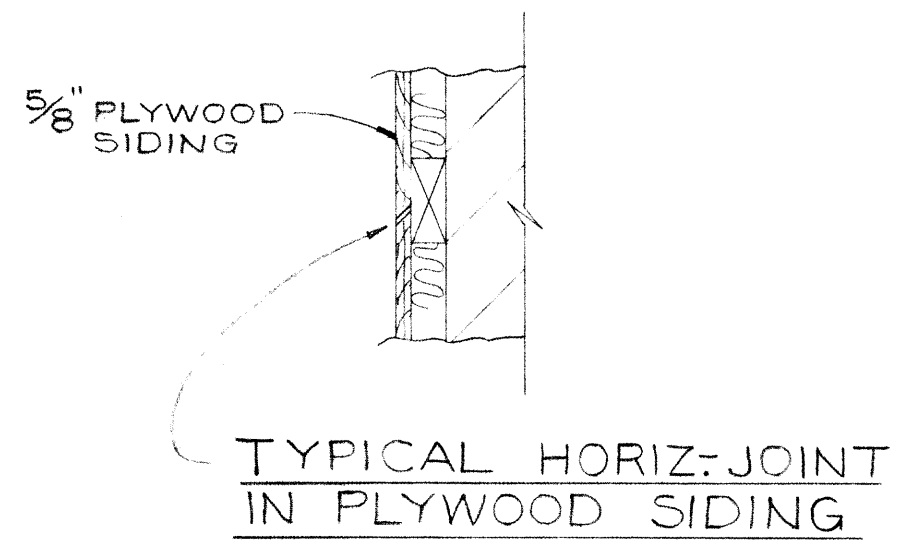
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JUNE, 1975	TRACED BY DEH	APPROVED BY
	SCALE: AS NOTED	SHEET 56 OF 75



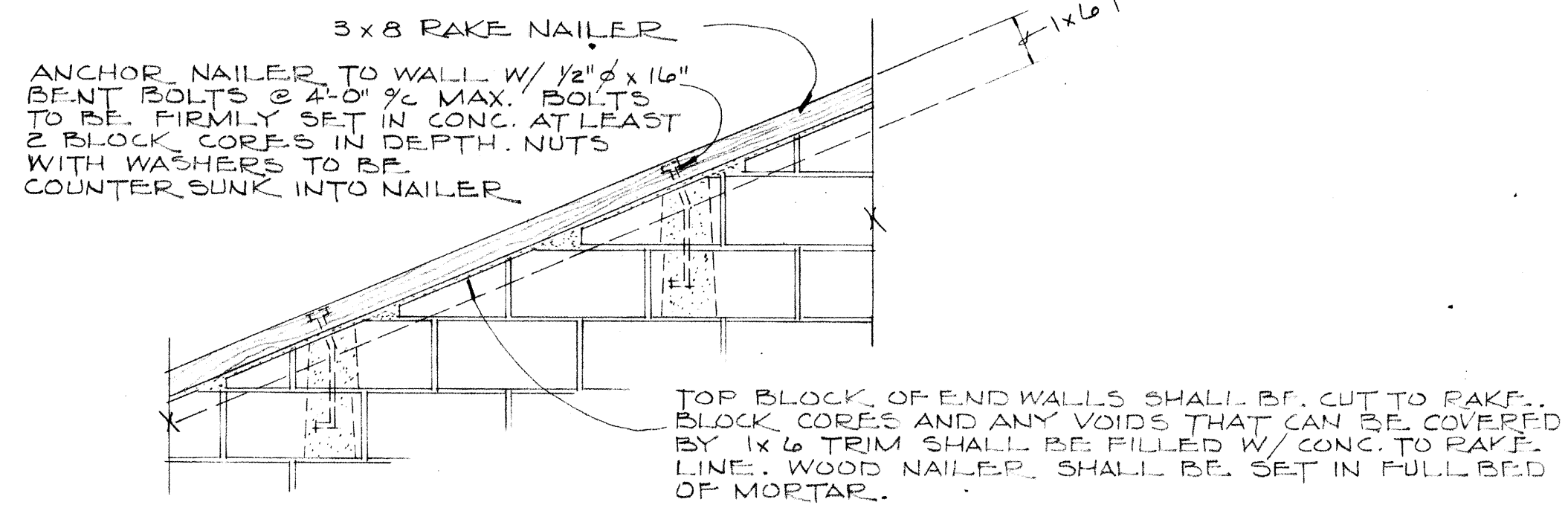
SANITARY VENT DETAIL
SCALE: 1/2" = 1'-0"



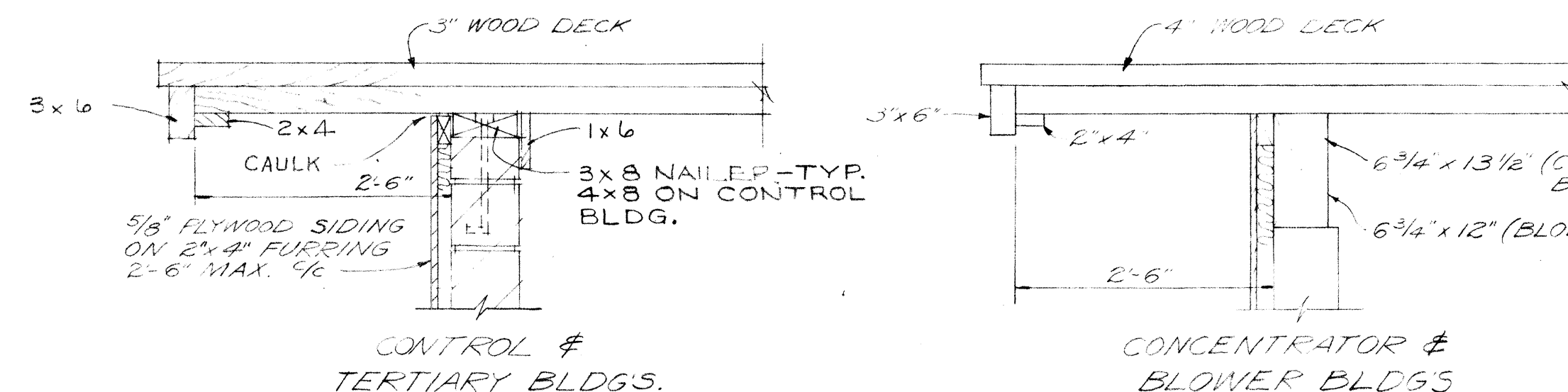
TYPICAL CORNER



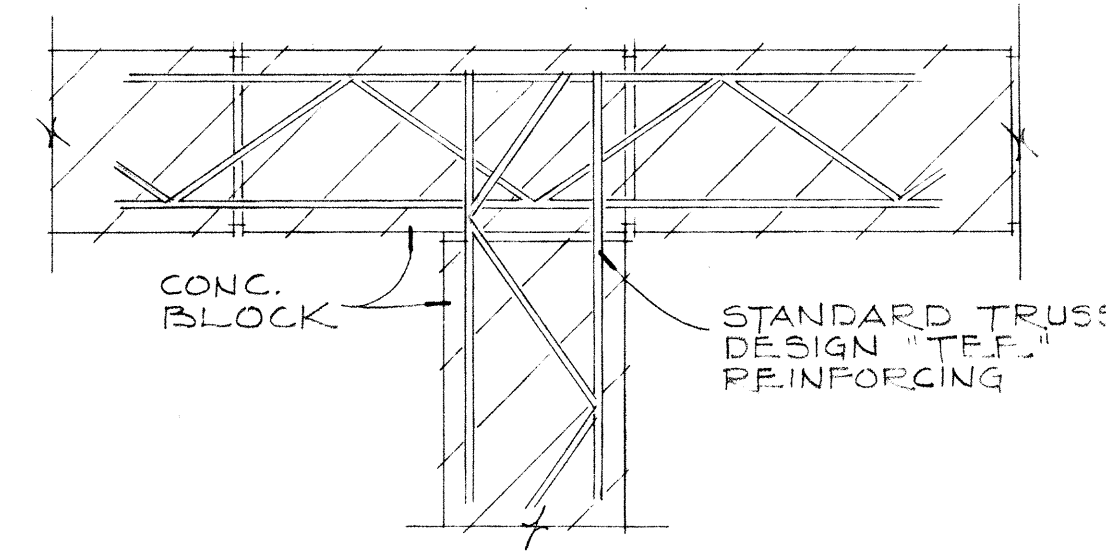
TYPICAL HORIZ. JOINT IN PLYWOOD SIDING



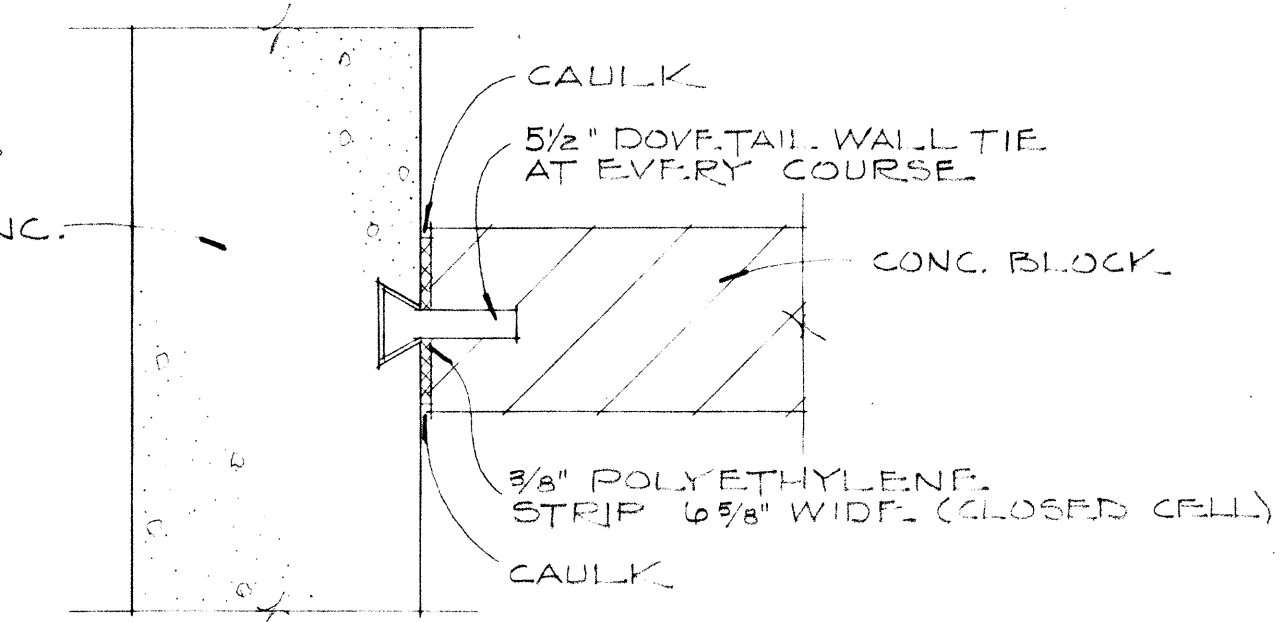
ELEVATION



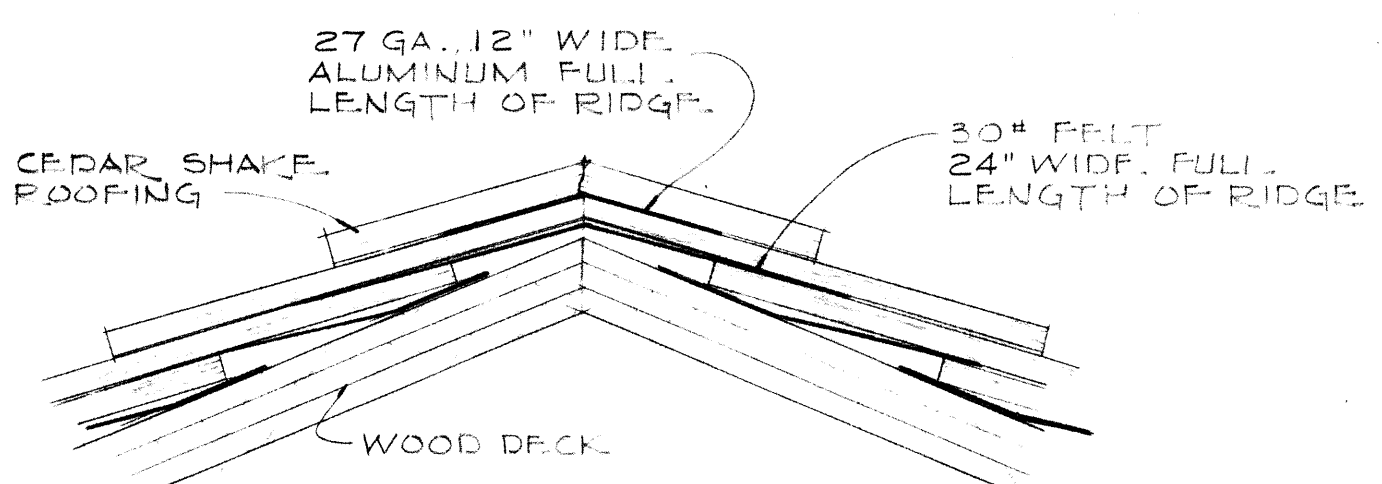
RAKE SECTIONS
SCALE: 3/4" = 1'-0"



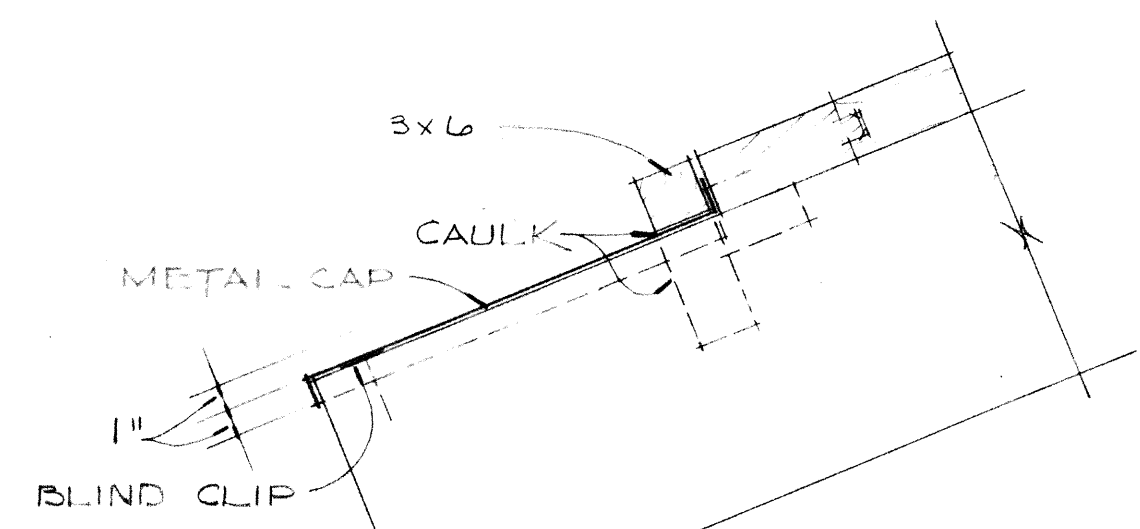
MASONRY - MASONRY TIE
SCALE: NONE



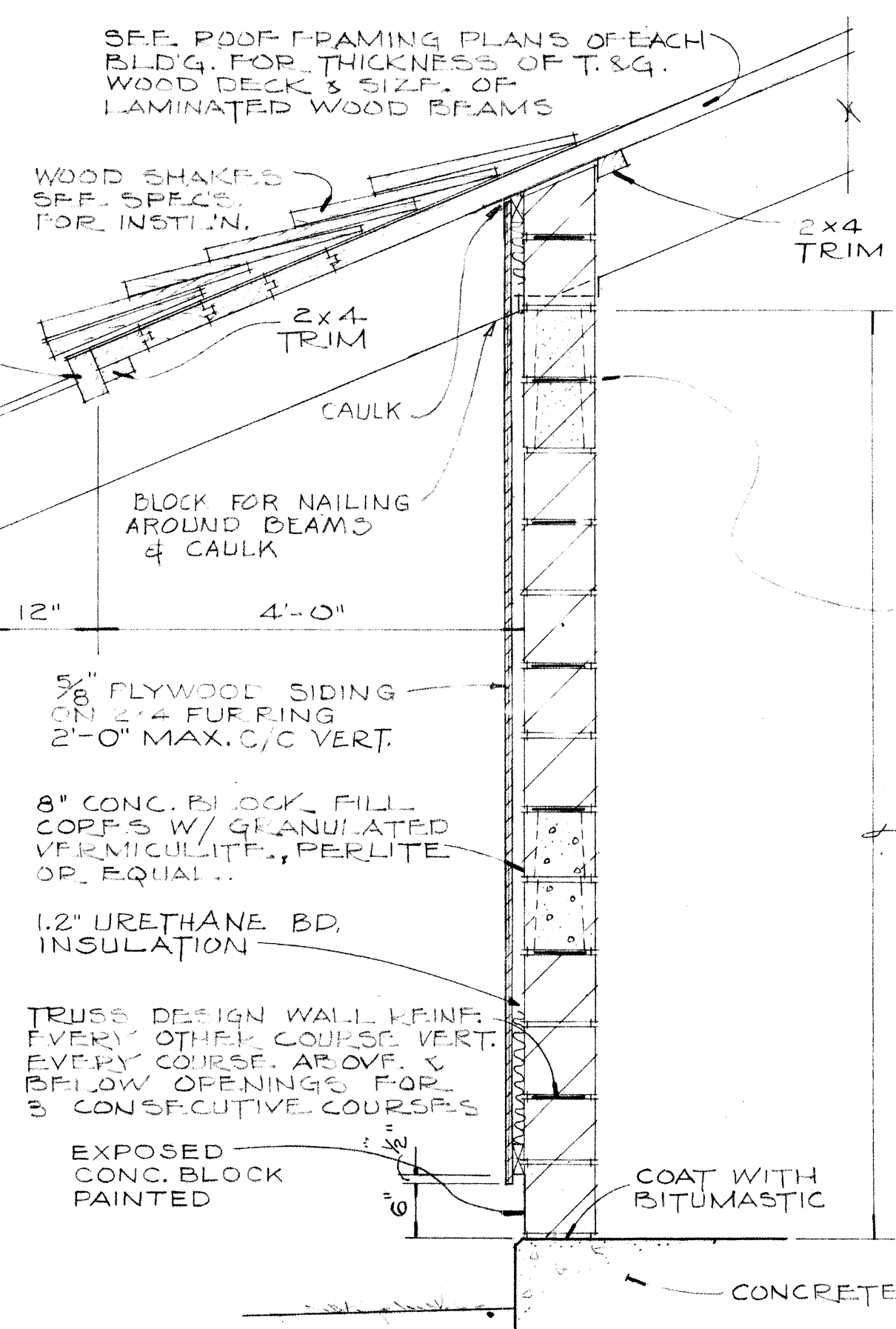
CONCRETE - MASONRY



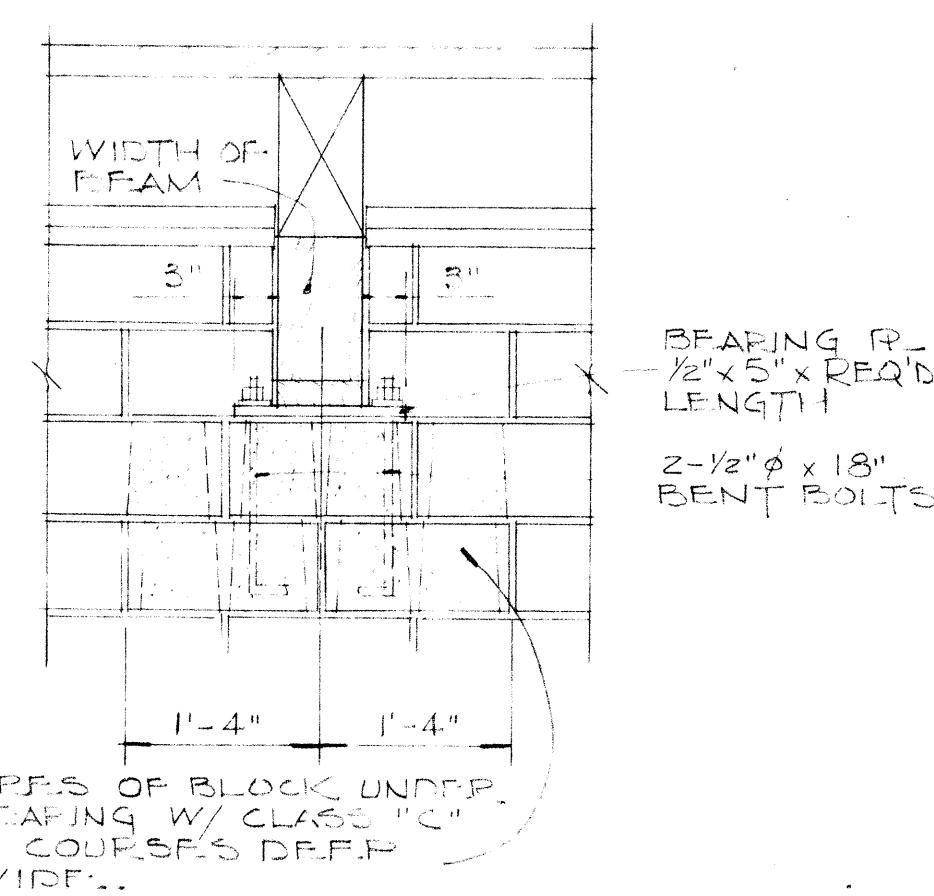
RIDGE DETAIL
SCALE: 1/2" = 1'-0"



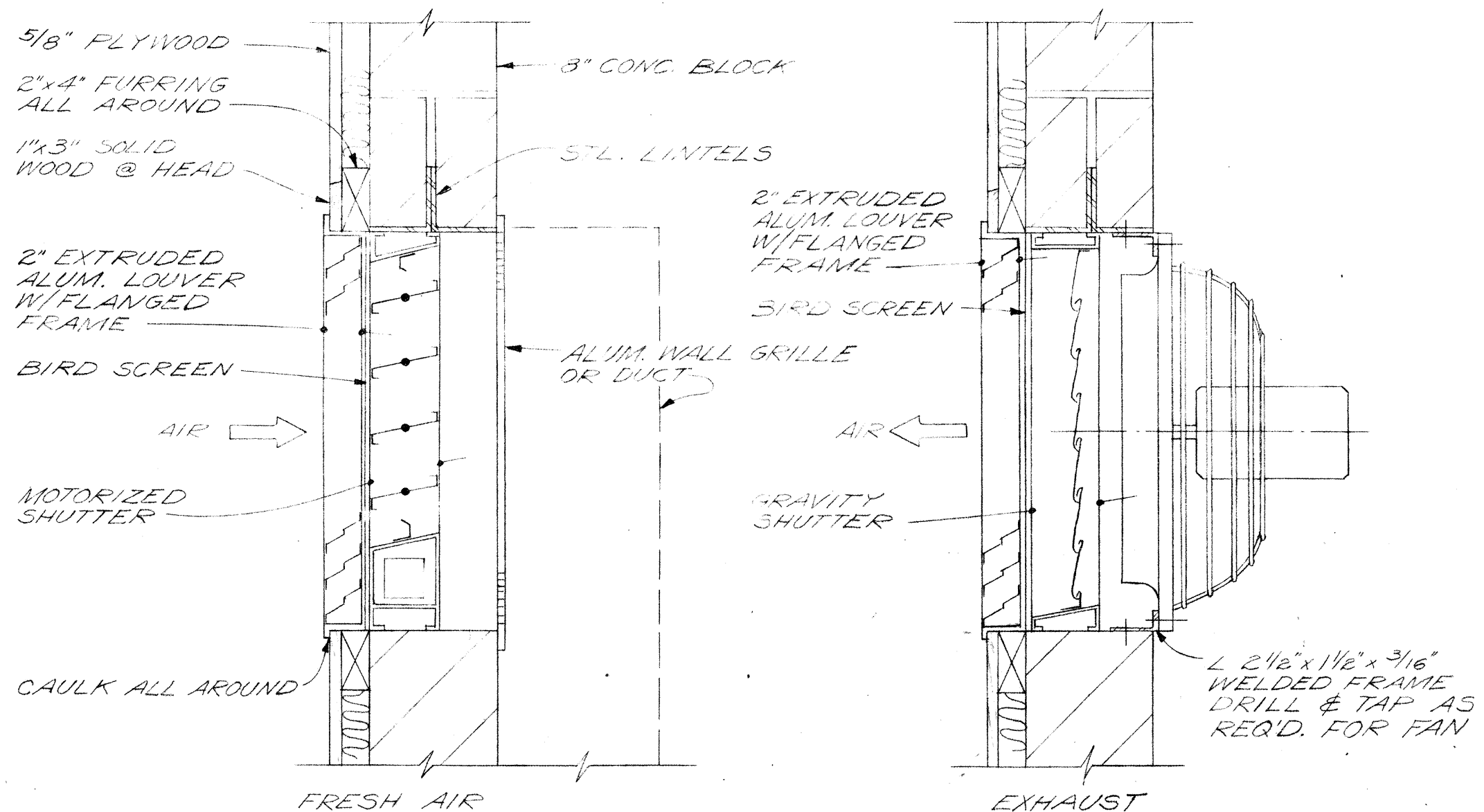
SECT. THRU METAL CAP
SCALE: 1/2" = 1'-0"



TYPICAL EAVE WALL SECTION
SCALE: 3/4" = 1'-0"



WALL TIES
SCALE: NONE



TYPICAL FRESH AIR AND EXHAUST UNITS
SCALE: 1/16" = 1'-0"

NOTE:
FOR LINTELS NOT INDICATED OTHERWISE PROVIDE THE FOLLOWING FOR EACH 4" THICKNESS OF MASONRY. PROVIDE A MIN. OF 8" BRG. EACH END.

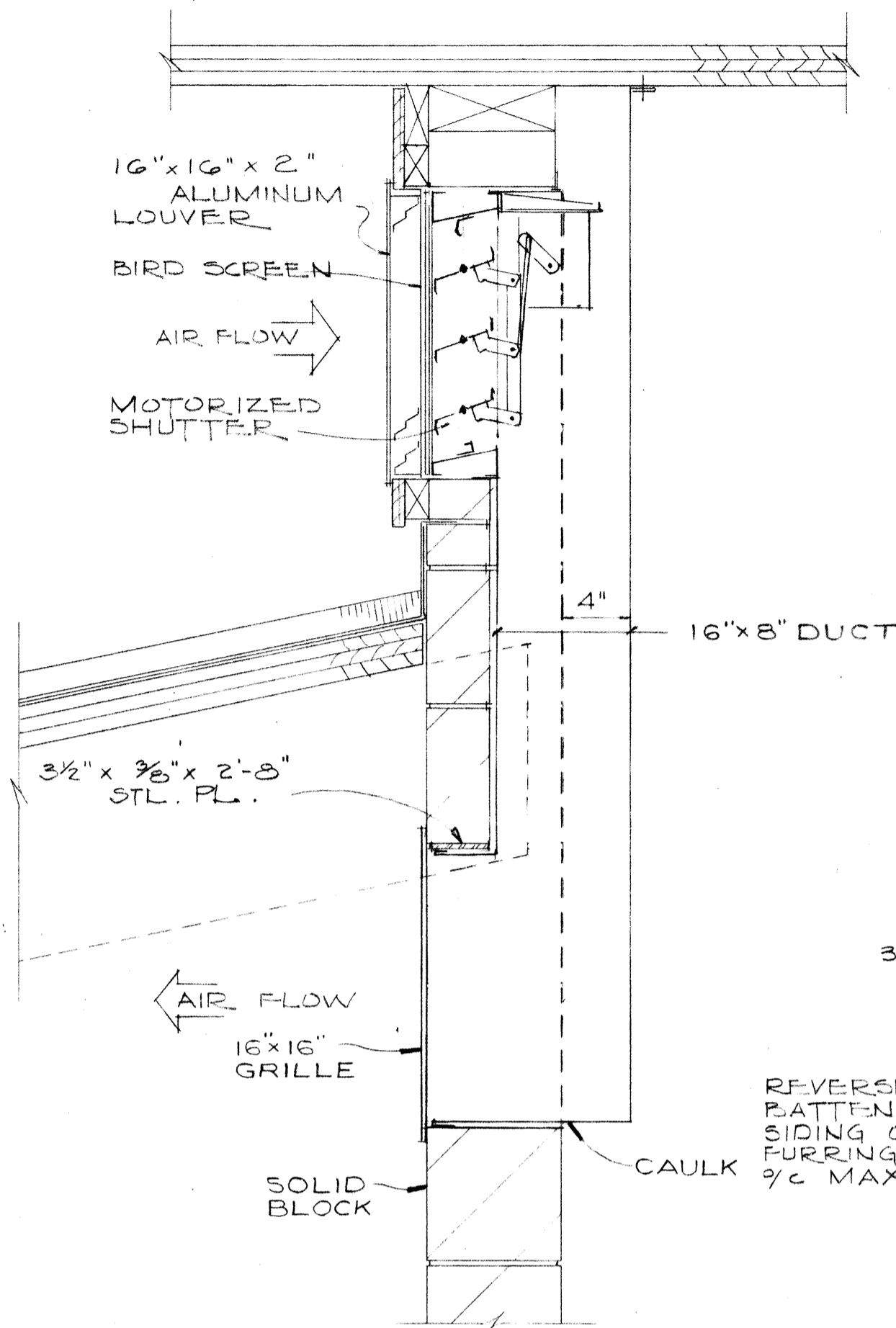
OPENINGS	LINTEL
0'-0" TO 1'-6"	SINGLE L 3 1/2 x 3/16 FLAT
1'-7" TO 3'-6"	SINGLE L 4 x 3/16 x 1/4 LLL
3'-7" TO 5'-0"	DO 4 x 3/16 x 3/16 "
5'-1" TO 6'-0"	DO 5 x 3/16 x 3/16 "
6'-1" TO 7'-0"	DO 6 x 3/16 x 3/16 "

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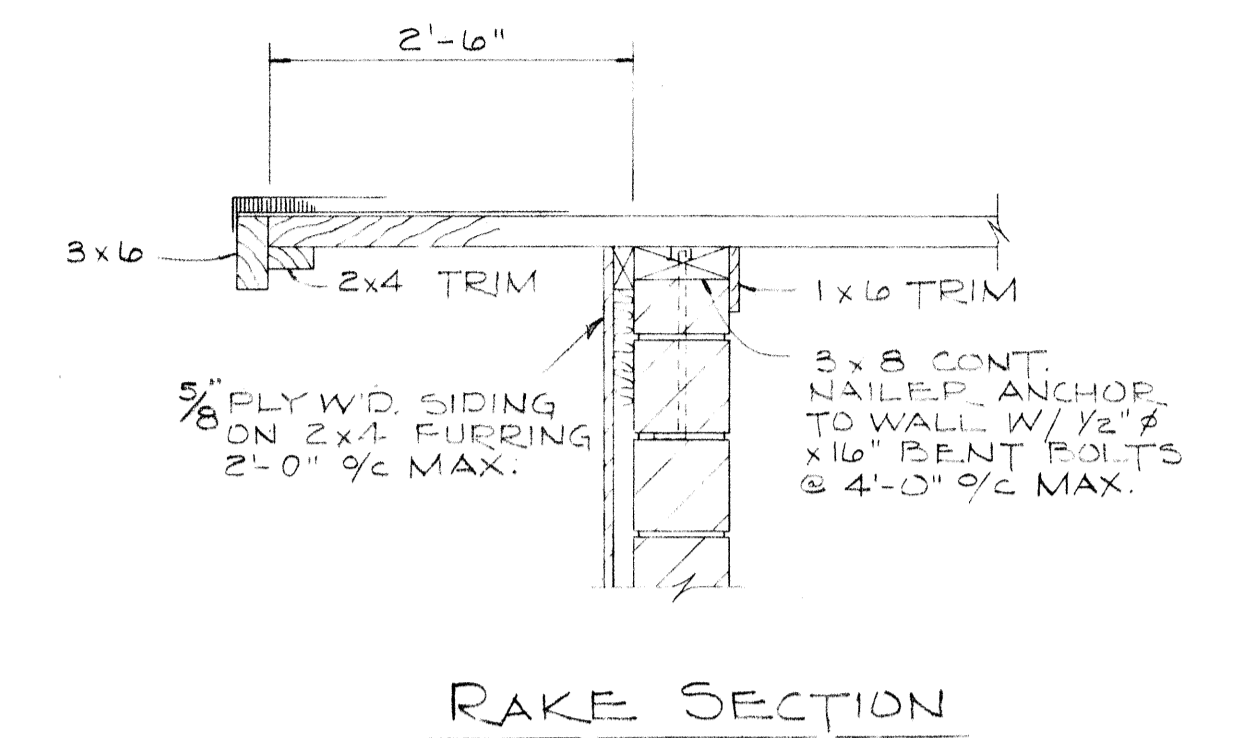
DELAWARE COUNTY, OHIO
OLENTANGY ENVIRONMENTAL CONTROL CENTER

ARCHITECTURAL DETAILS

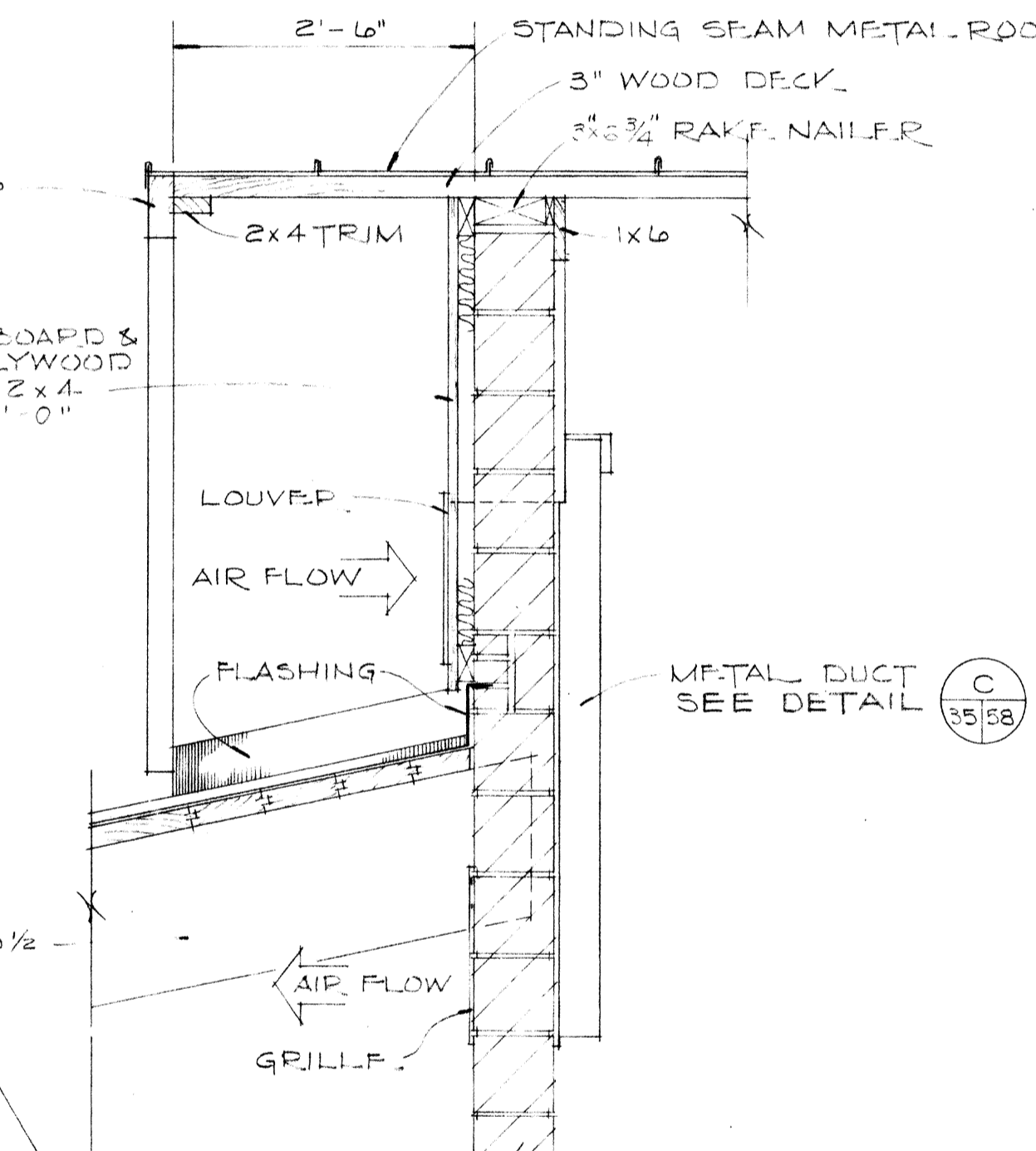
REVISIONS APRIL, 1975	DRAWN BY WJN	CHECKED BY
JUNE, 1973	TRACED BY DE.H.	APPROVED BY
	SCALE: AS NOTED	SHEET 57 OF 75



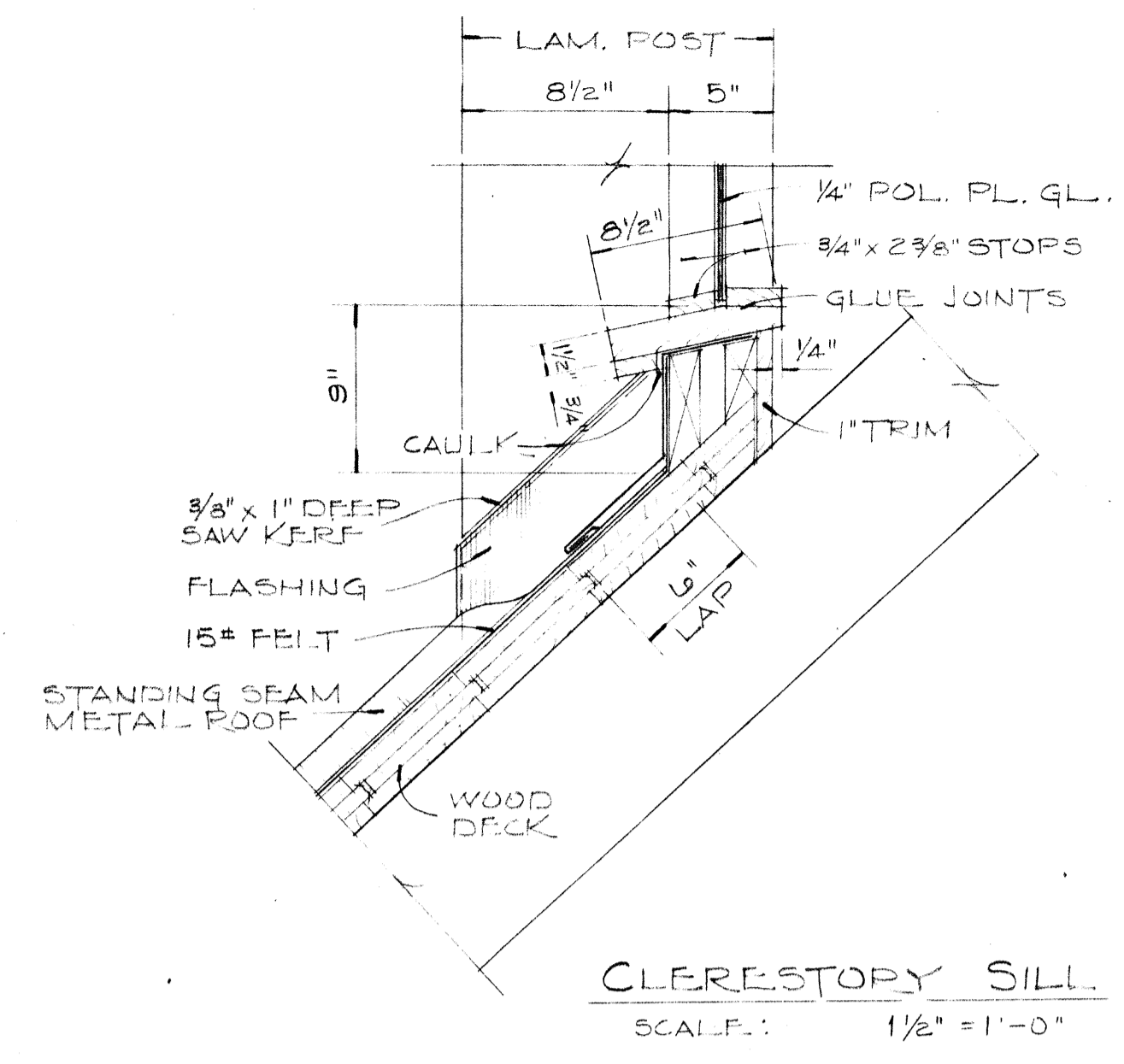
SECTION THRU COMPRESSOR ROOM F.A. INTAKE. (C) 3/15/58



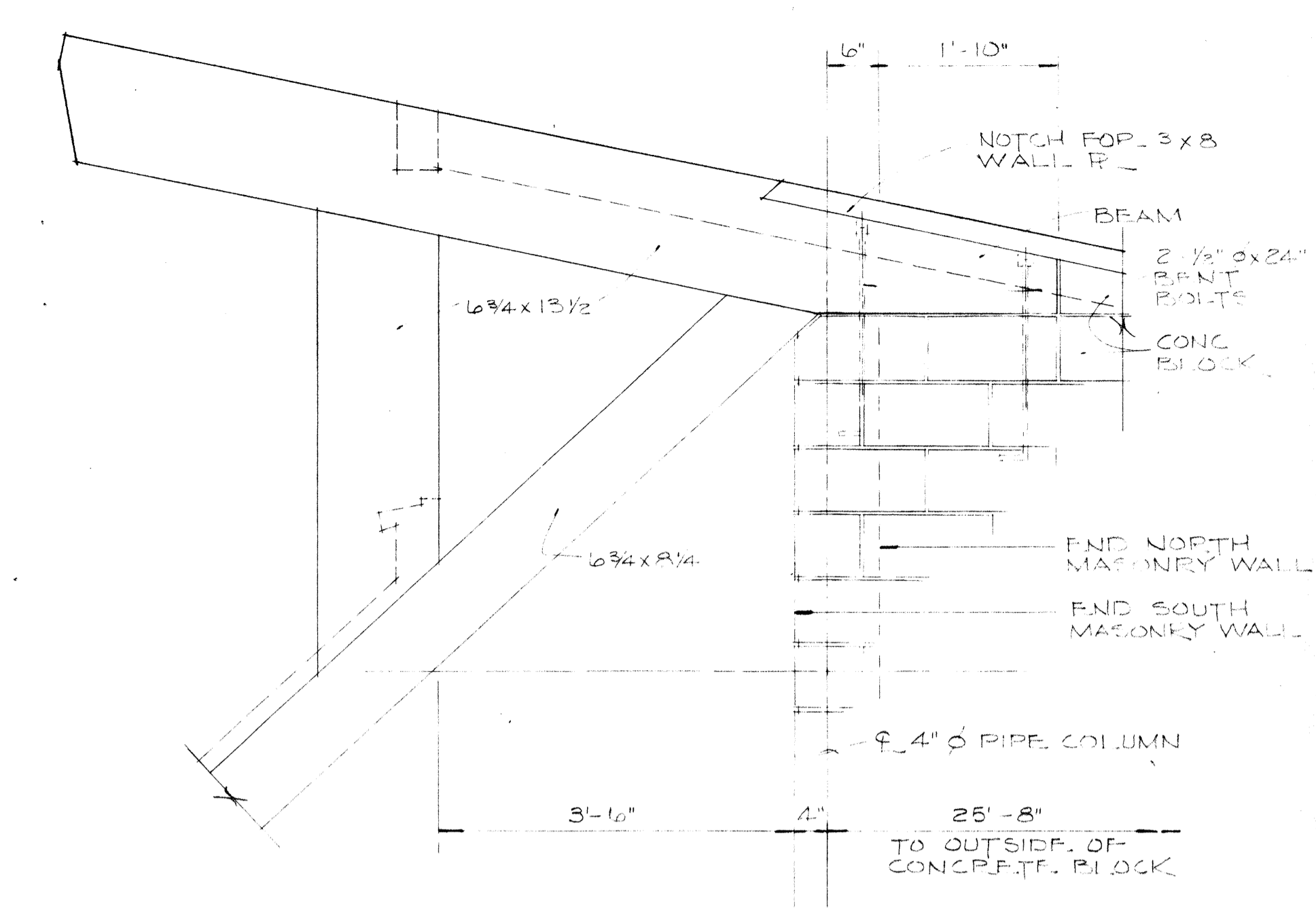
RAKE SECTION



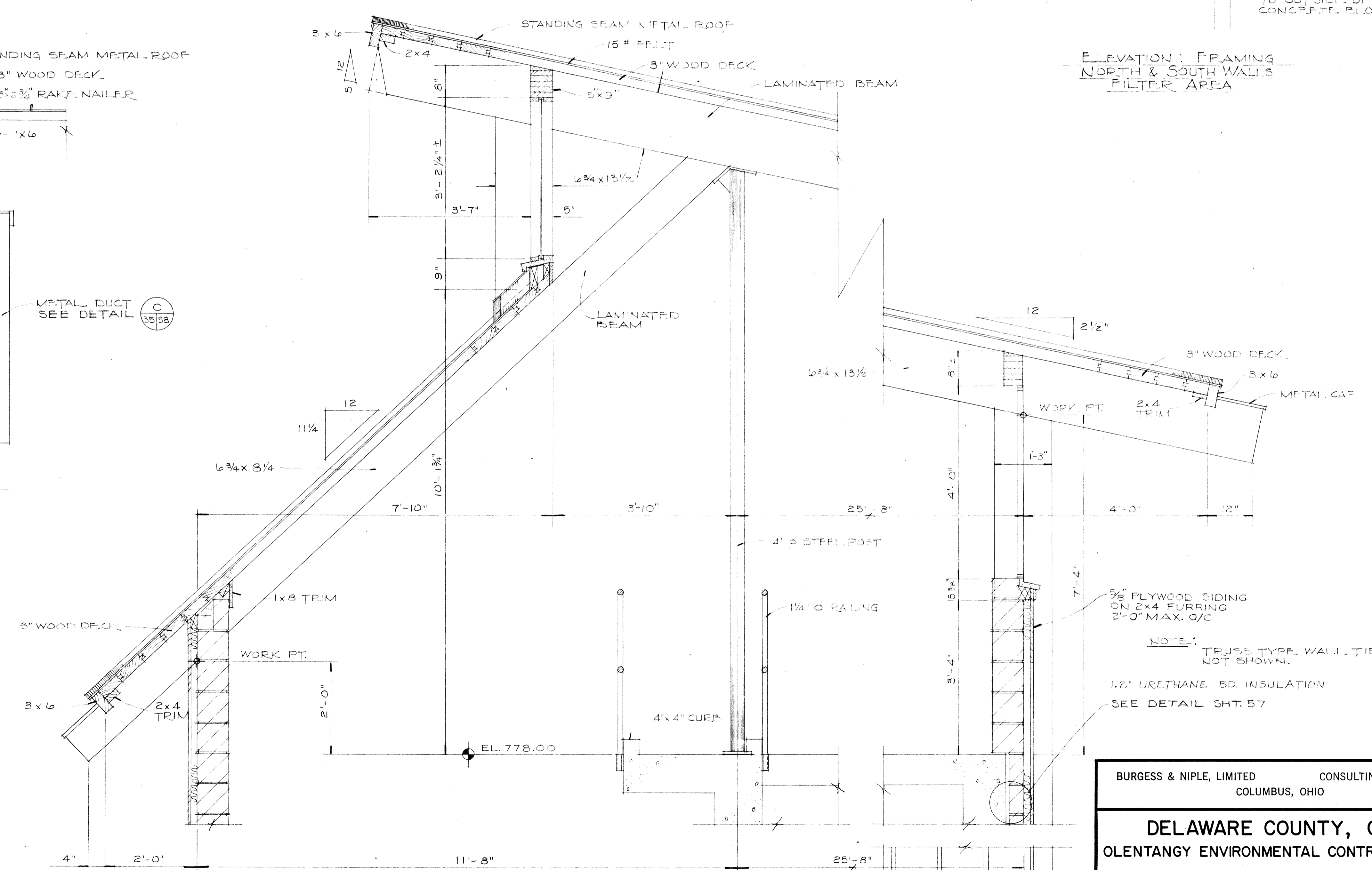
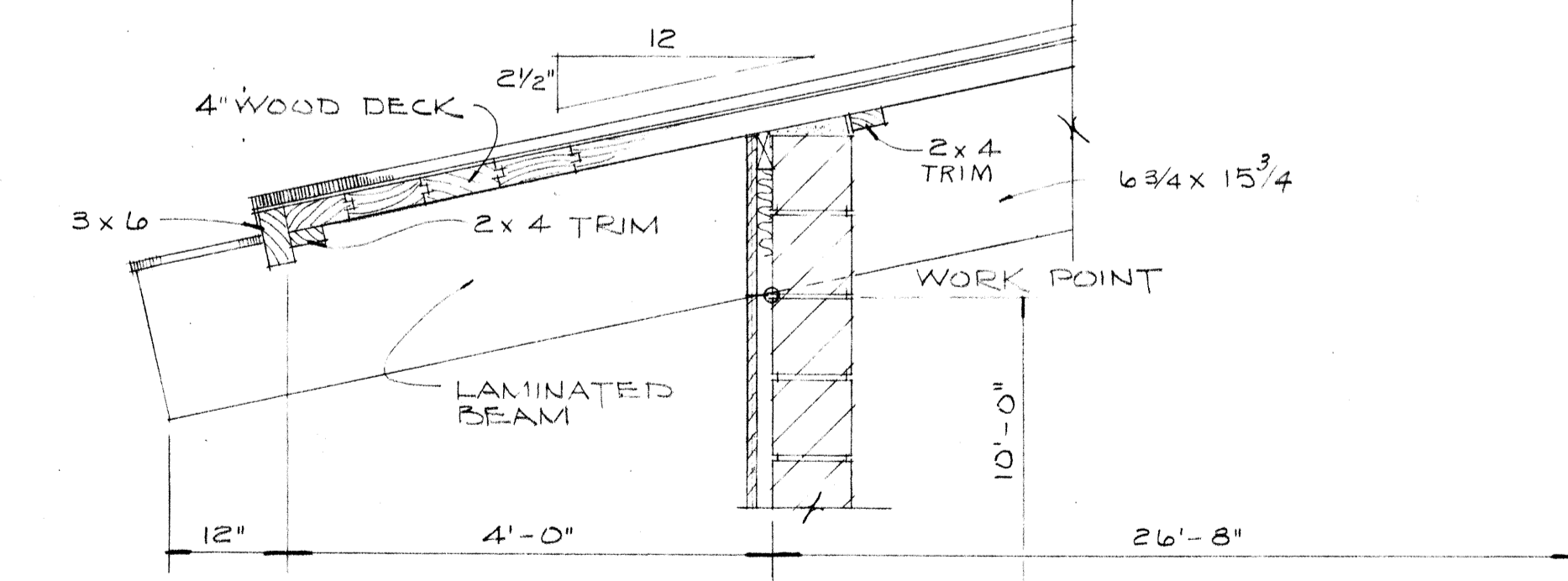
SECTION THRU PUMP ROOM (B) 3/15/58



CLERESTORY SILL. SCALE: 1 1/2" = 1'-0"



ELEVATION: FRAMING NORTH & SOUTH WALLS FILTER AREA



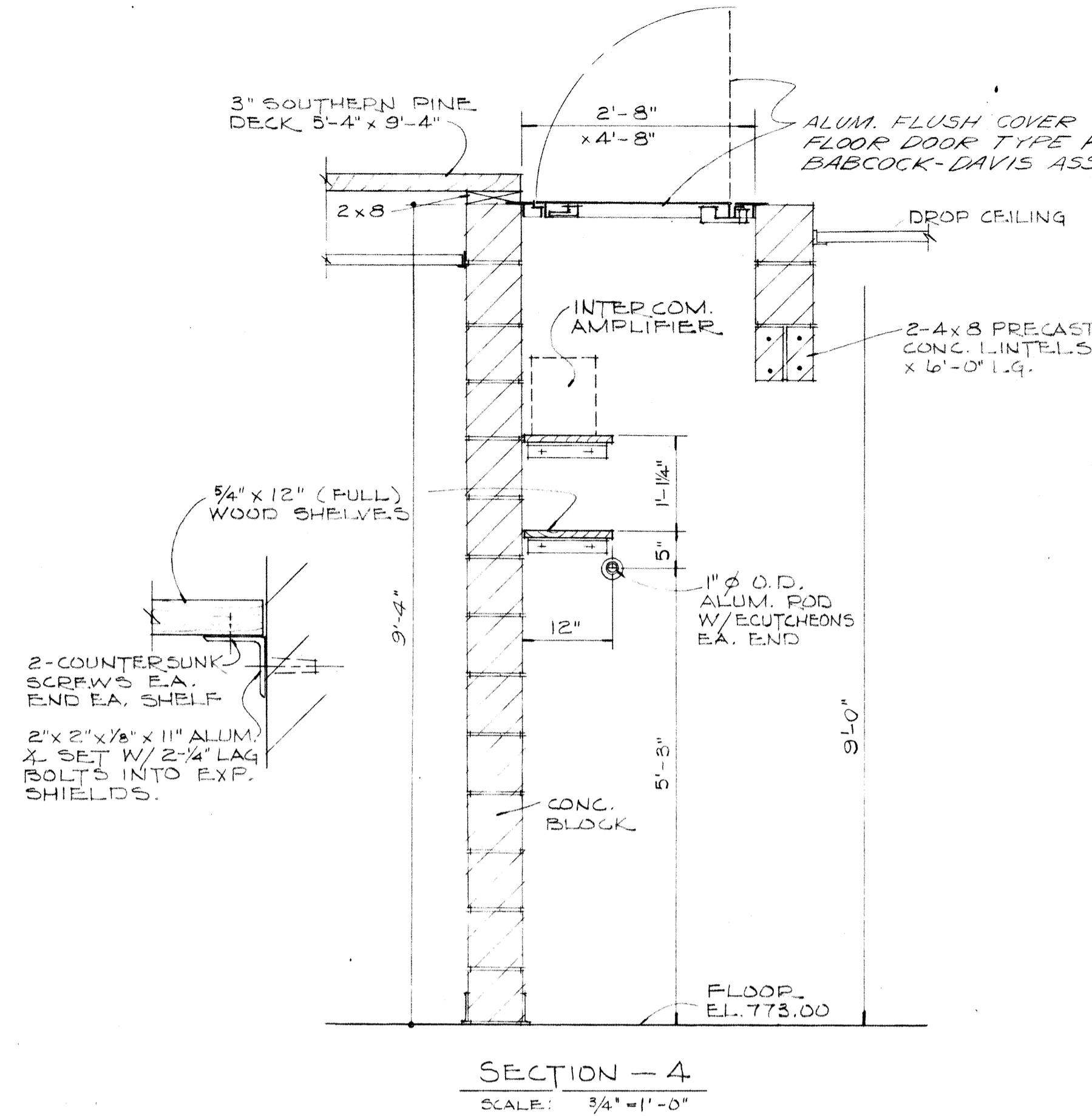
SECTION THRU FILTER AREA (A) 3/15/58

BURGESS & NIPLE, LIMITED CONSULTING ENGINEERS
COLUMBUS, OHIO

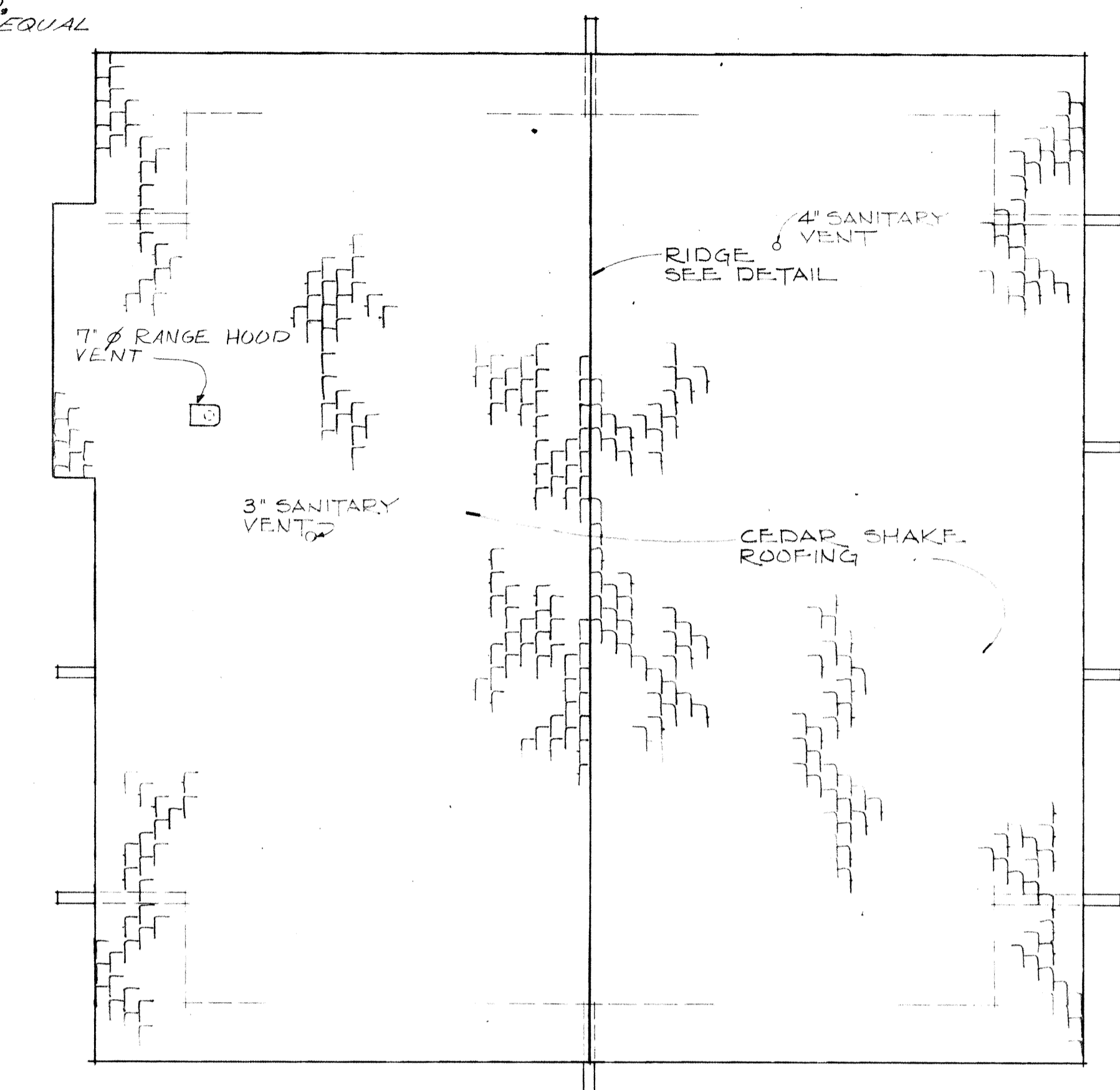
DELAWARE COUNTY, OHIO
OLENTANGY ENVIRONMENTAL CONTROL CENTER
TERTIARY BUILDING
ARCHITECTURAL DETAILS

REVISIONS APRIL, 1975	DRAWN BY WJN TRACED BY DEH	CHECKED BY APPROVED BY
JUNE, 1973	SCALE: 3/4" = 1'-0"	SHEET 58 OF 75

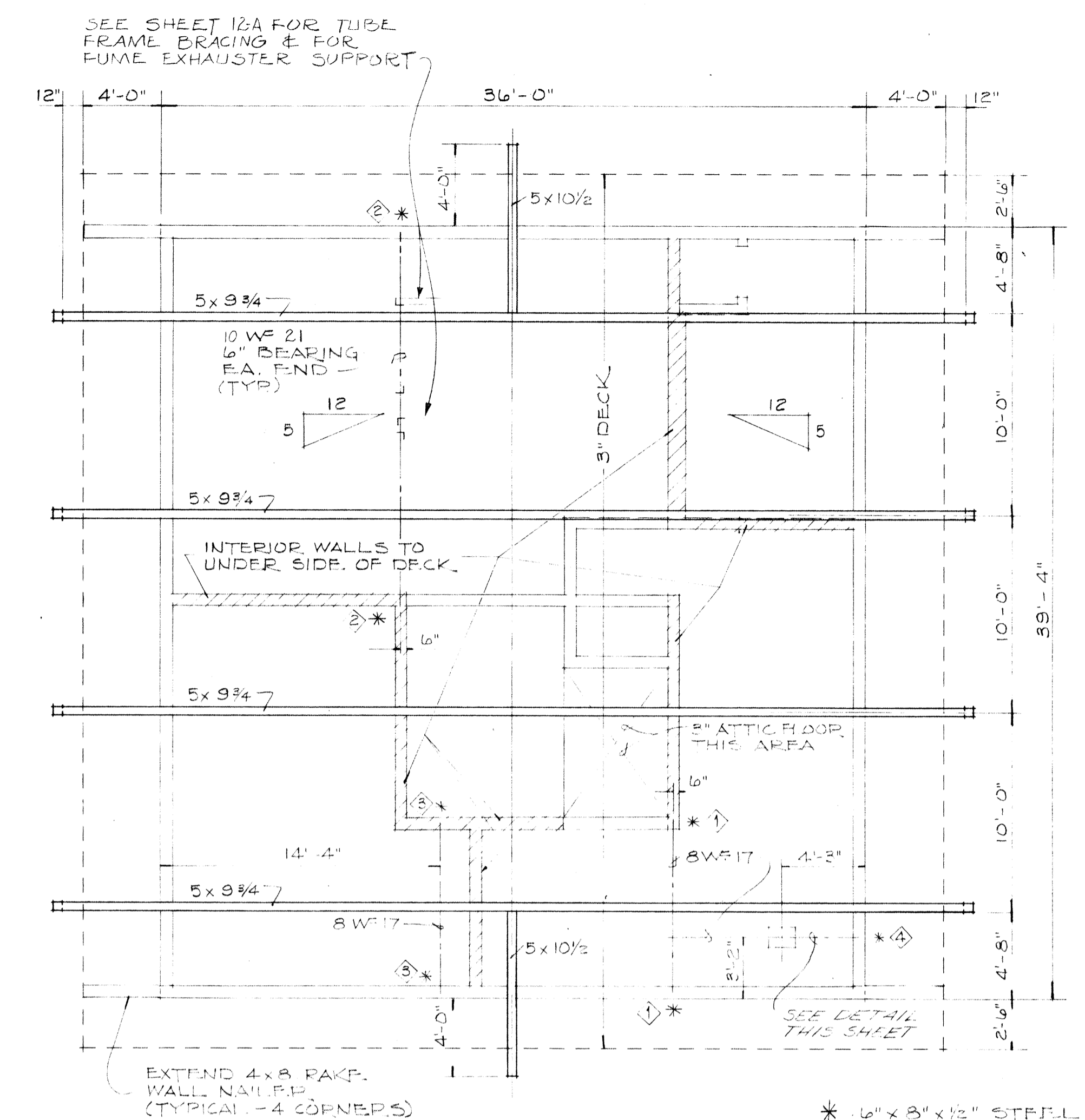
NOTE: TRUSS TYPE WALL TIES NOT SHOWN.
1 1/2" URETHANE BD. INSULATION SEE DETAIL SHT. 57



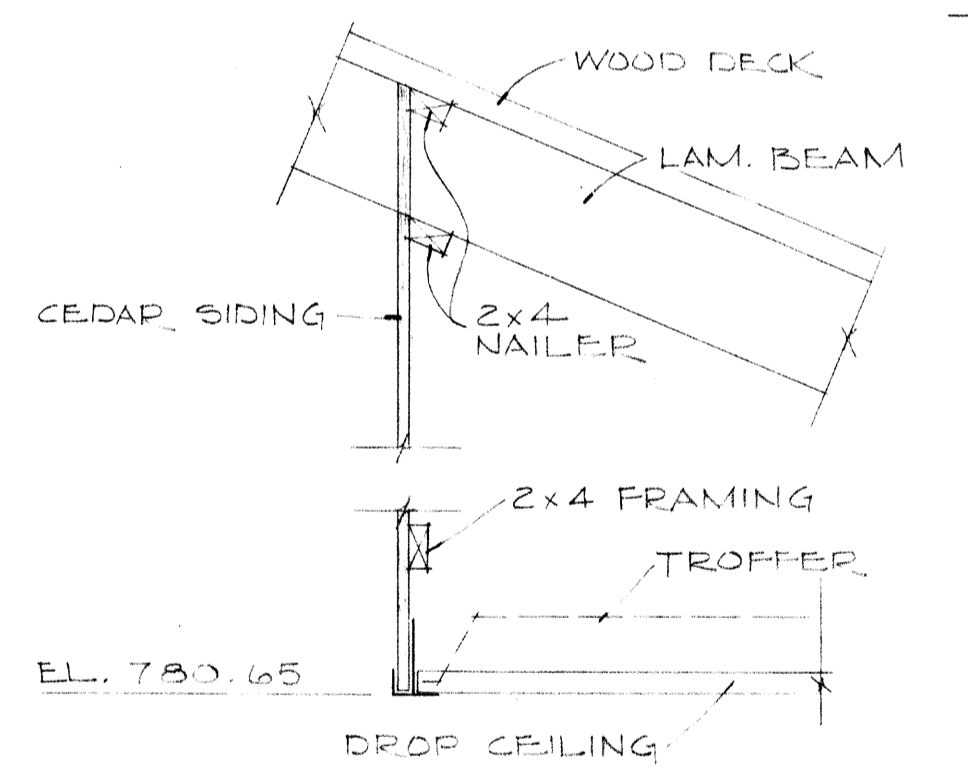
SECTION - 4
SCALE: 3/4" = 1'-0"



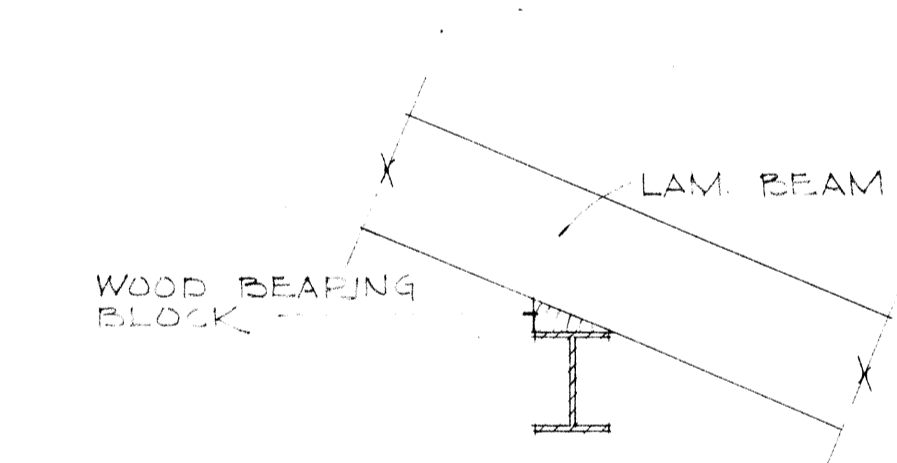
ROOF PLAN



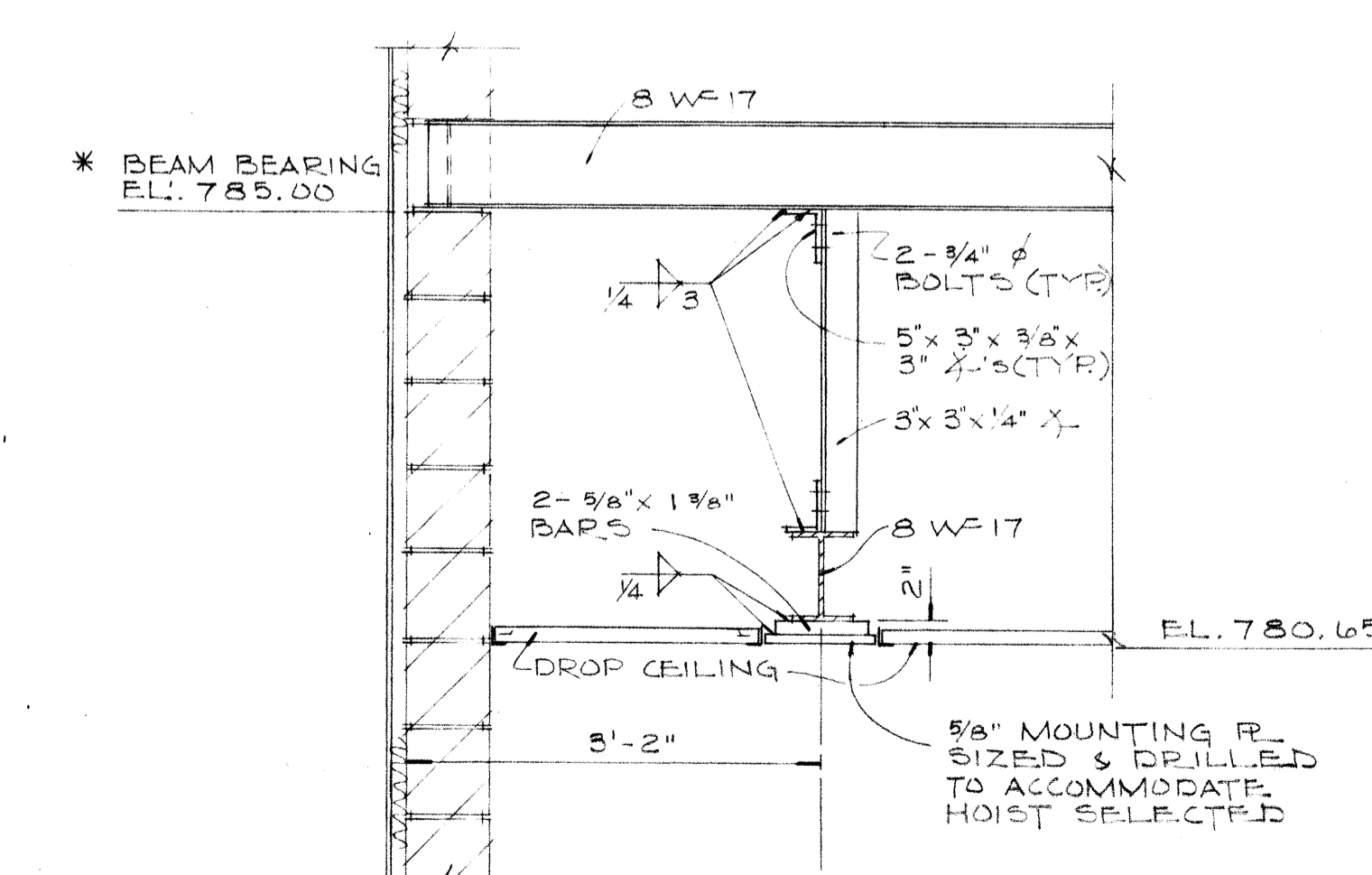
FRAMING PLAN



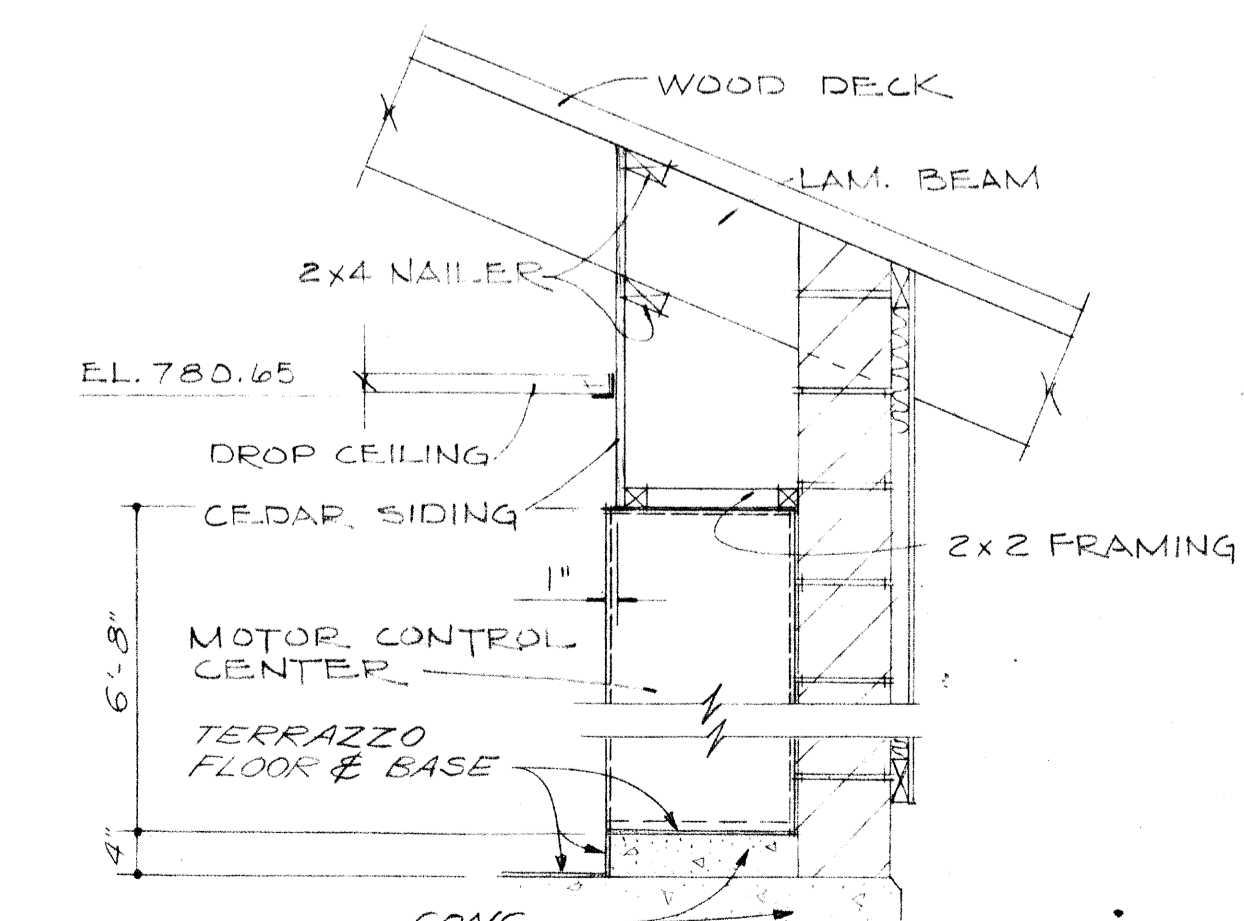
SECTION - 2
SCALE: 3/4" = 1'-0"



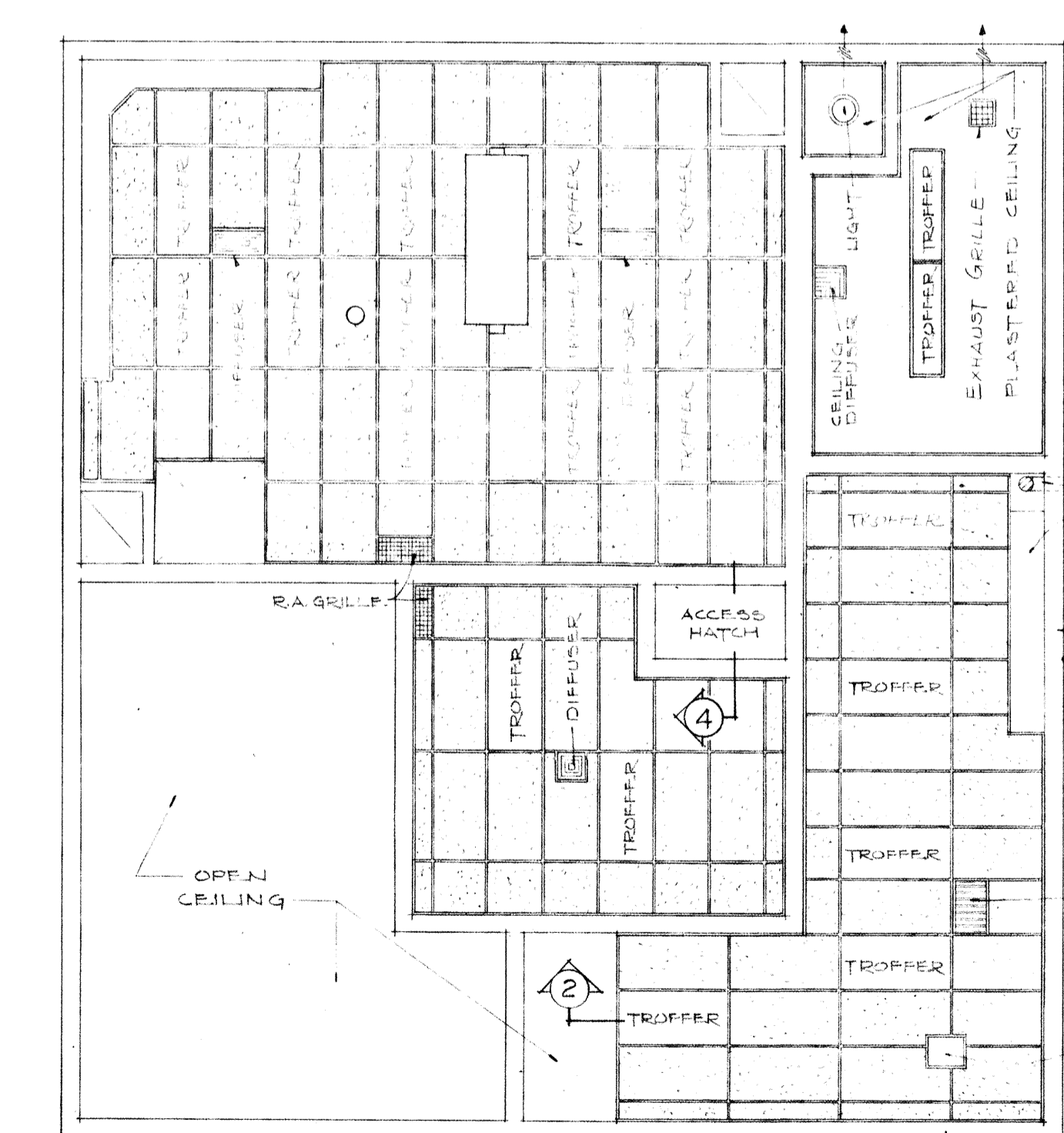
TYPICAL BEARING ON STEEL BEAMS
SCALE: 3/4" = 1'-0"



WINCH HOIST MOUNTING PL. DETAIL - 1
SCALE: 3/4" = 1'-0"



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



REFLECTED CEILING PLAN

CONTROL BUILDING
SCALE: 3/16" = 1'-0"

- * 1/2" x 3" x 1/2" STEEL BRACING PLATE REQUIRED.
- ① BEAM BEARING @ EL. 785.00
- ② BEAM BEARING @ EL. 786.00
- ③ BEAM BEARING @ EL. 786.87
- ④ BEAM BEARING @ EL. 780.92

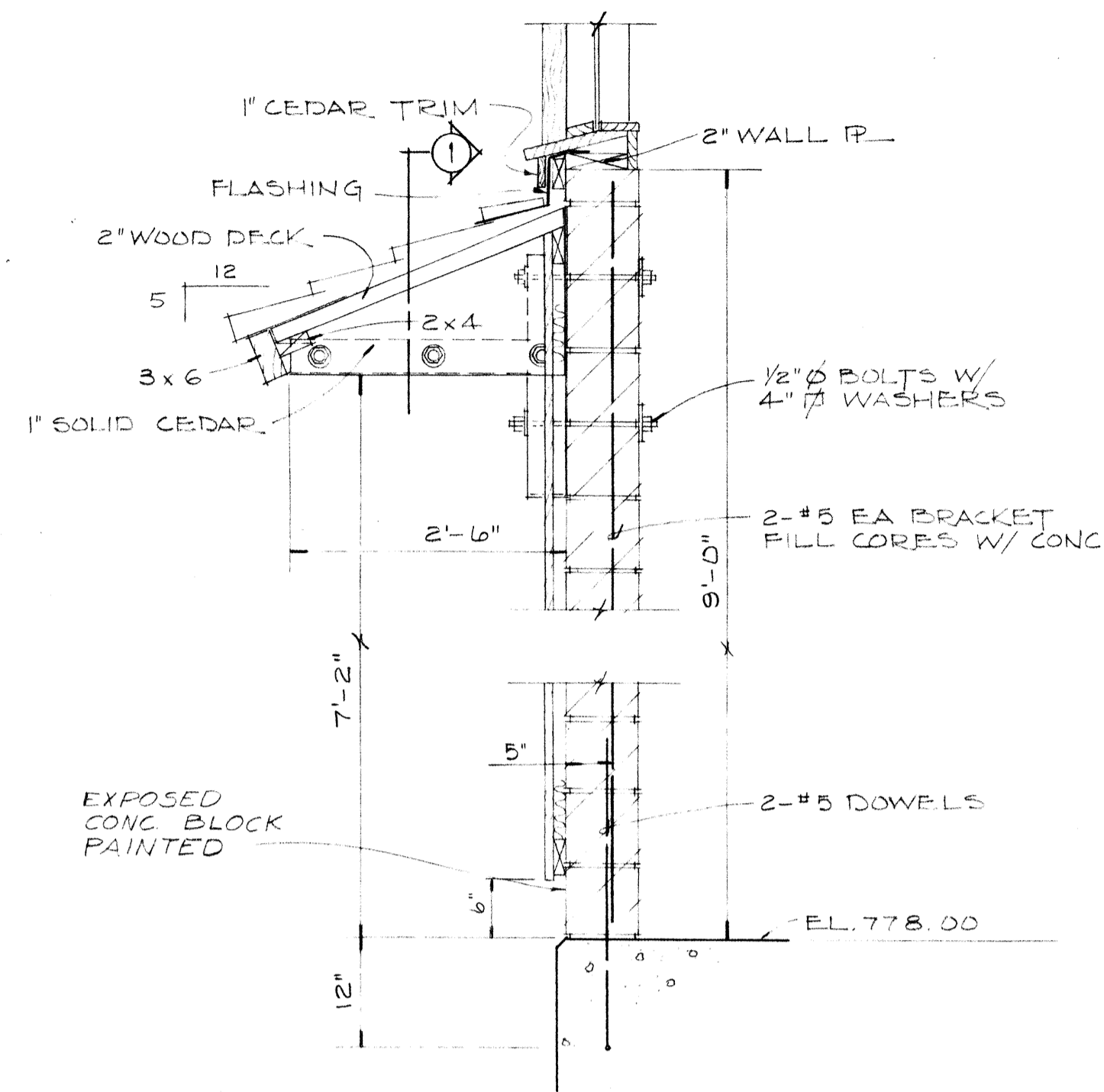
NOTES:
DO NOT HANG PIPING OF OTHER LOADS FROM DECKING OF ROOF BEAMS, UNLESS SPECIFICALLY SHOWN OTHERWISE.
ALL CONSTRUCTION DETAILS AND CONNECTIONS SHALL BE THE STANDARD OF THE TIMBER FABRICATOR, MEETING THE REQUIREMENTS OF A.I.T.C. CONNECTIONS SHALL BE CONCEALED AS MUCH AS PRACTICABLE.
SUBMIT DETAILS TO ENGINEER FOR APPROVAL.

BURGESS & NIPLE, LIMITED CONSULTING ENGINEERS
COLUMBUS, OHIO

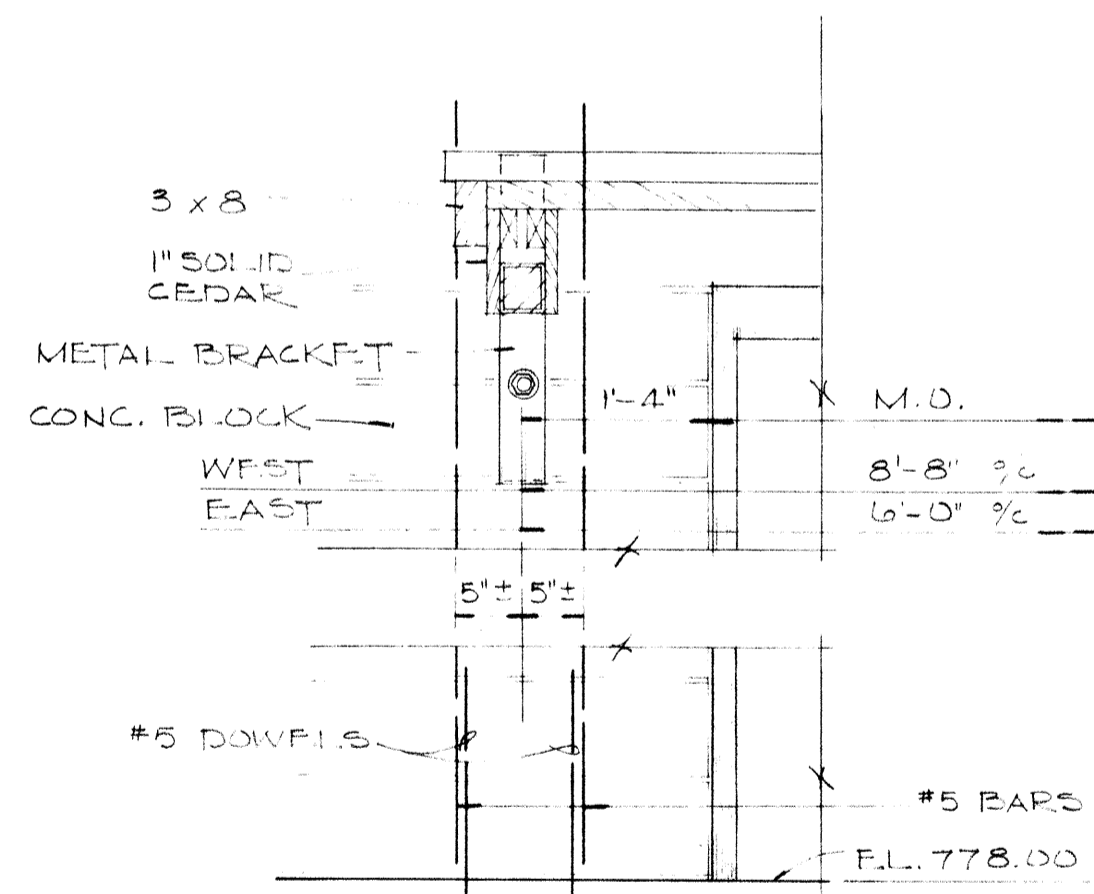
DELAWARE COUNTY, OHIO
OLENTANGY ENVIRONMENTAL CONTROL CENTER

CONTROL BUILDING ROOF PLANS & DETAILS

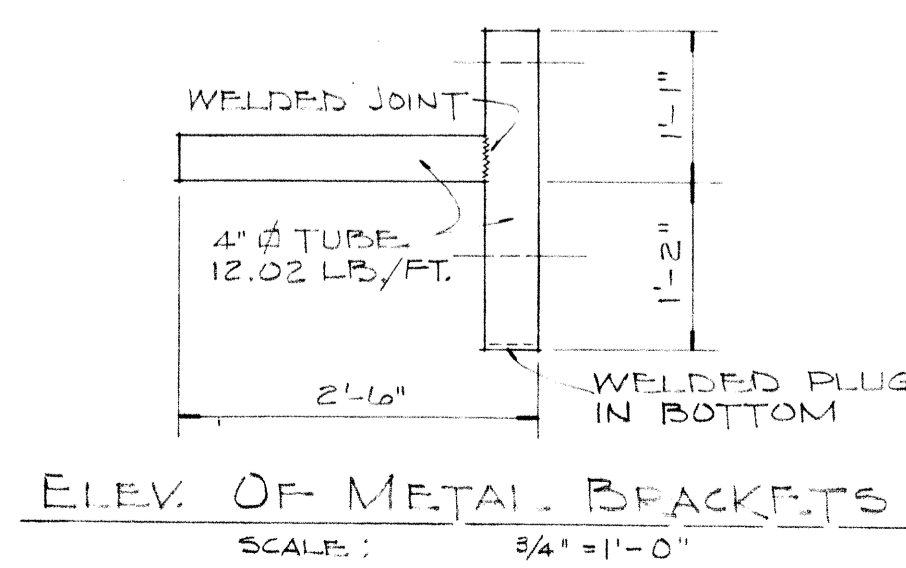
REVISIONS APRIL, 1975	DRAWN BY WJN	CHECKED BY
JUNE, 1973	TRACED BY DEH	APPROVED BY
	SCALE: 3/16" = 1'-0"	SHEET 59 OF 75



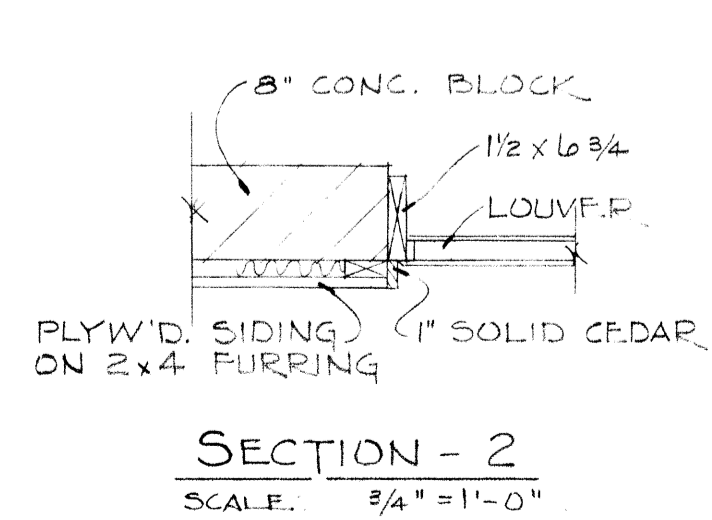
WALL SECTION
EAST & WEST
SCALE: 3/4" = 1'-0"



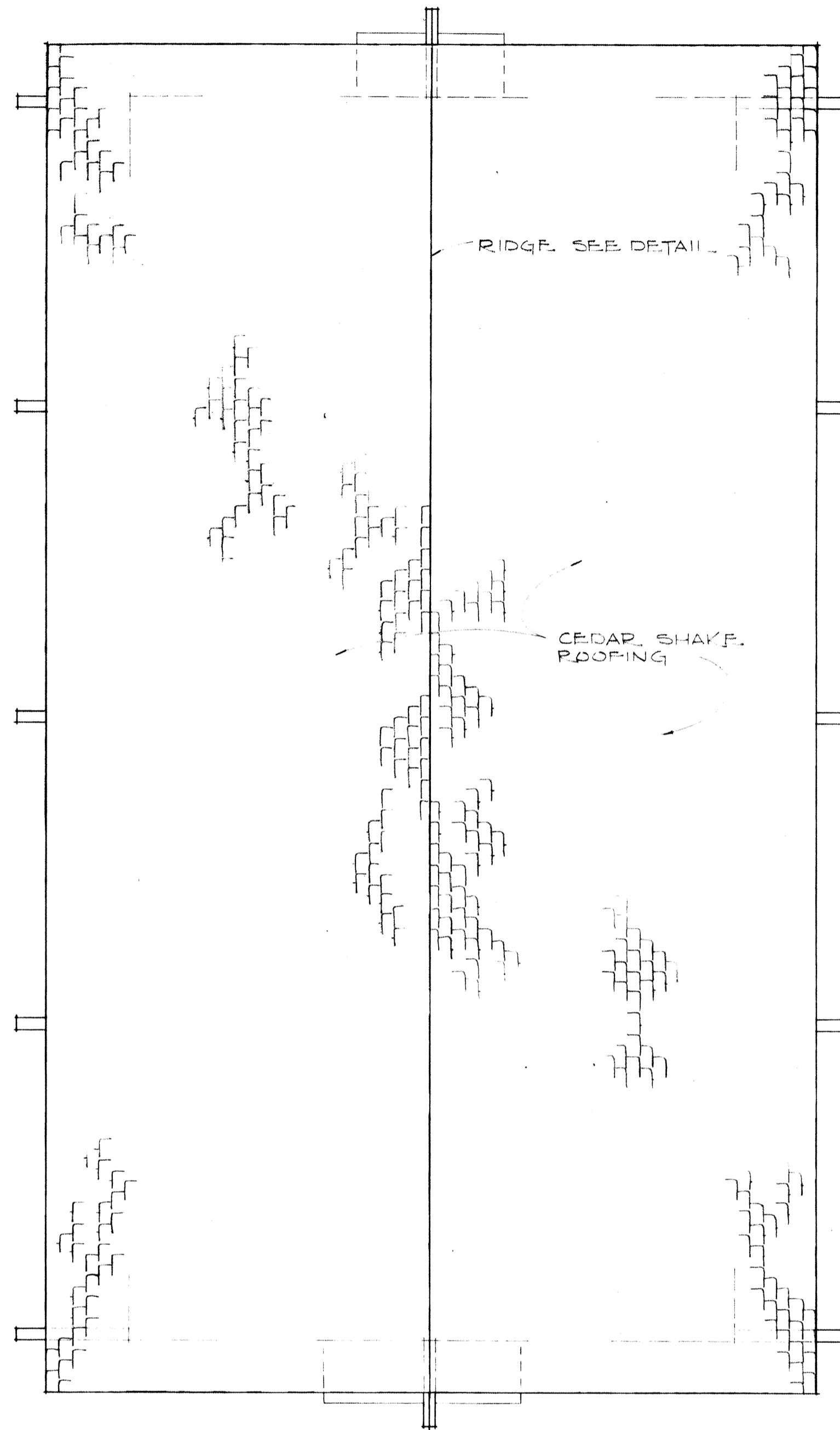
SECTION - 1
SCALE: 3/4" = 1'-0"



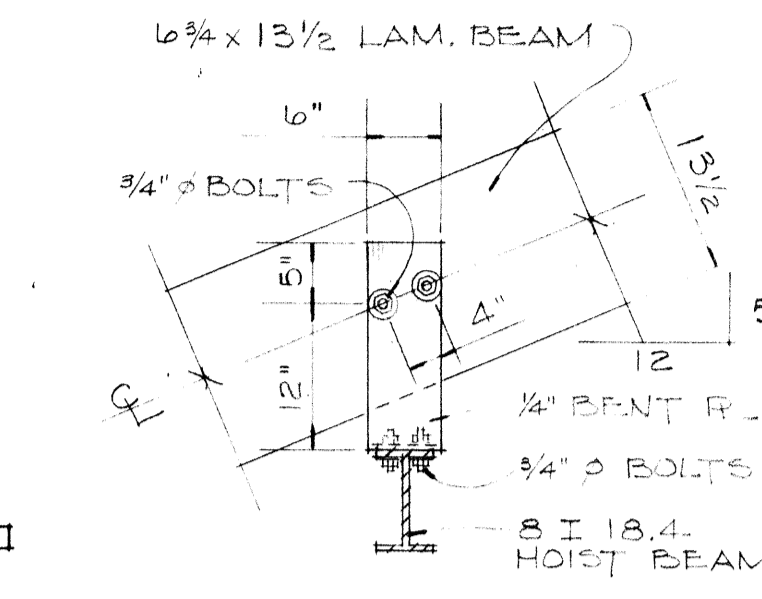
ELEV. OF METAL BRACKETS
SCALE: 3/4" = 1'-0"



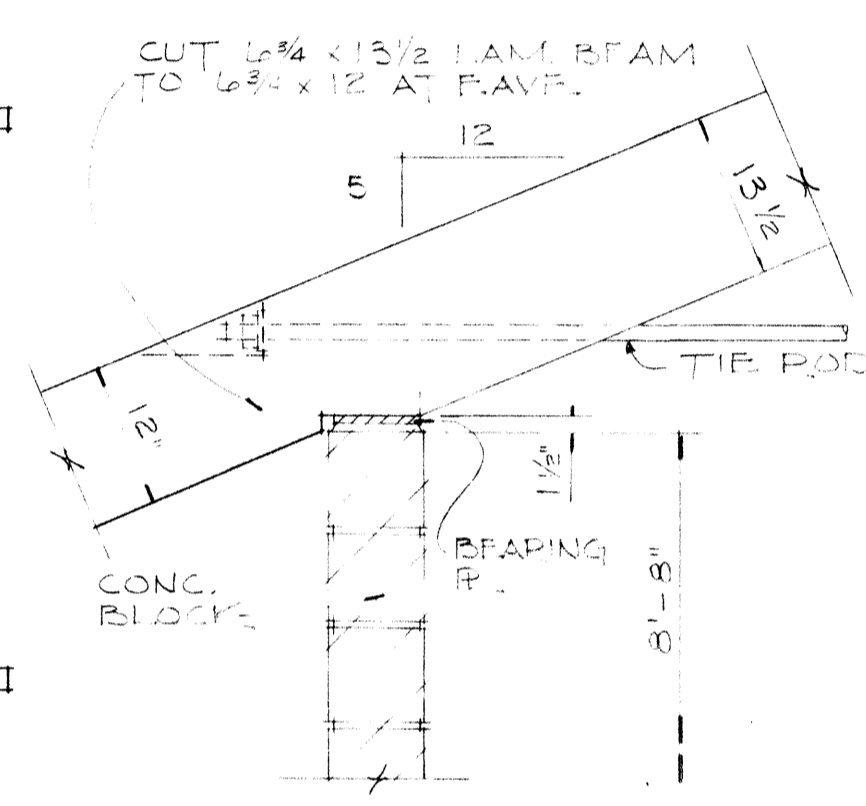
SECTION - 2
SCALE: 3/4" = 1'-0"



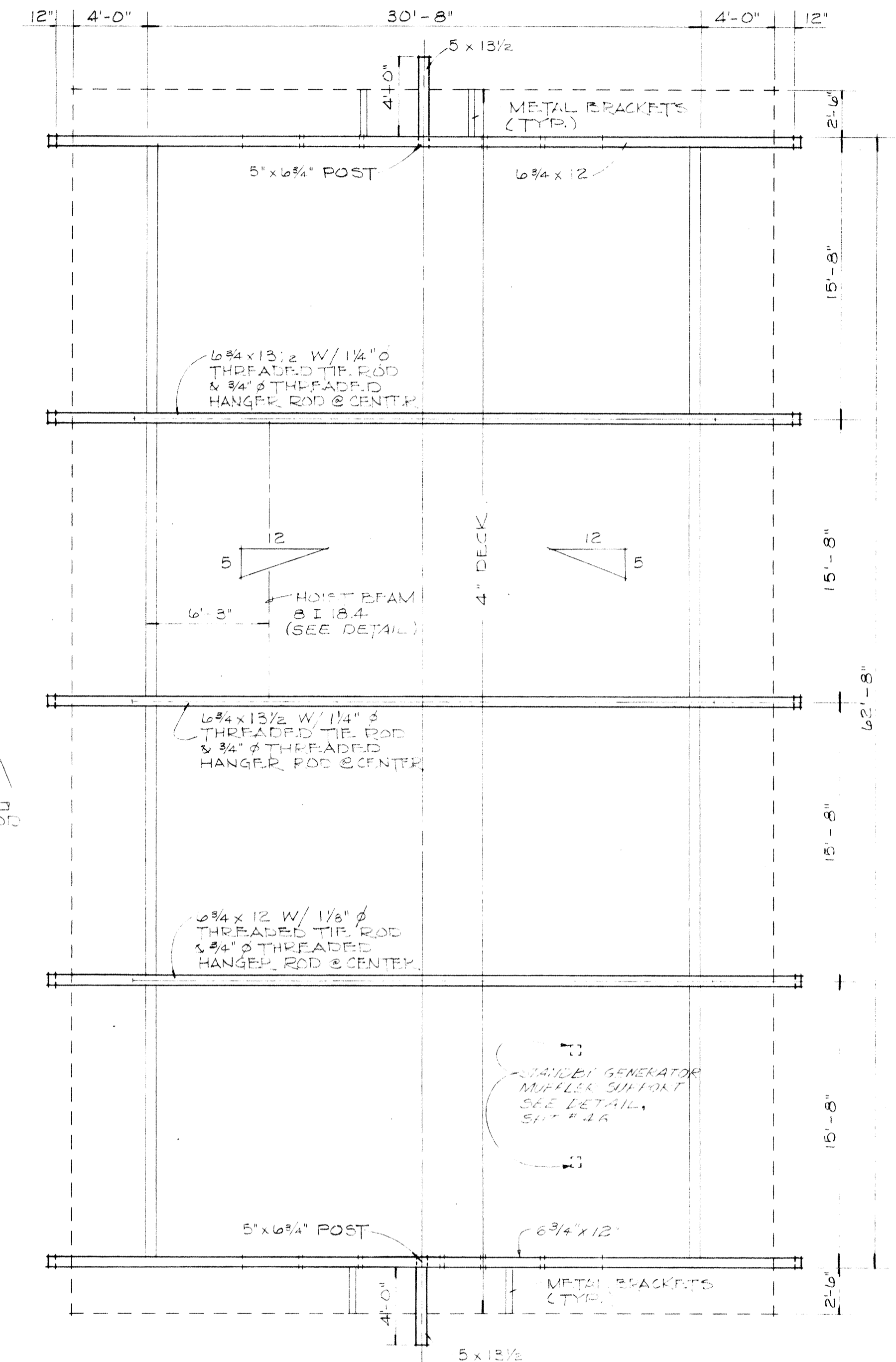
ROOF PLAN



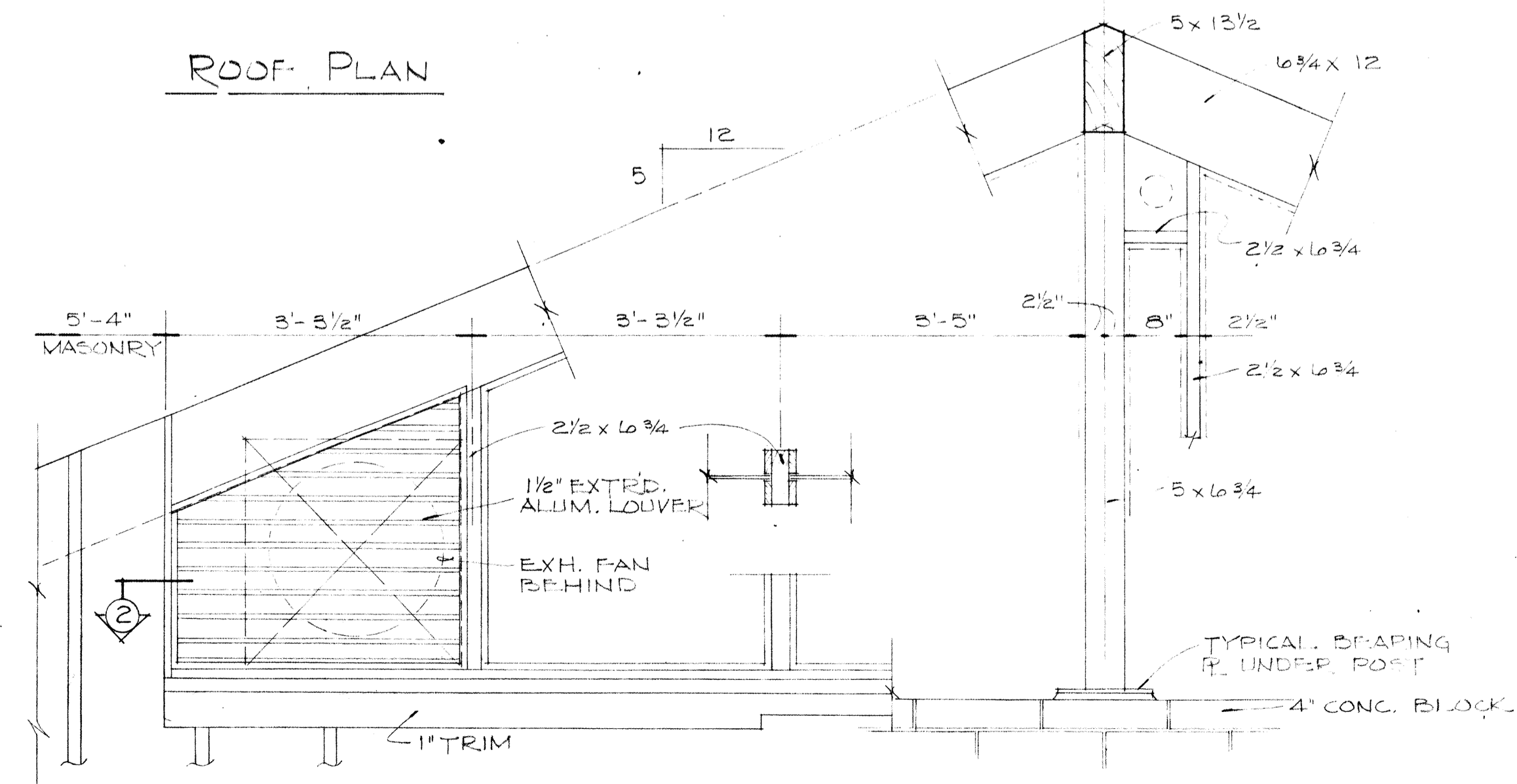
HOIST BEAM
SUPPORT DETAIL
SCALE: 3/4" = 1'-0"



TIE ROD DETAIL
SCALE: 3/4" = 1'-0"



FRAMING PLAN

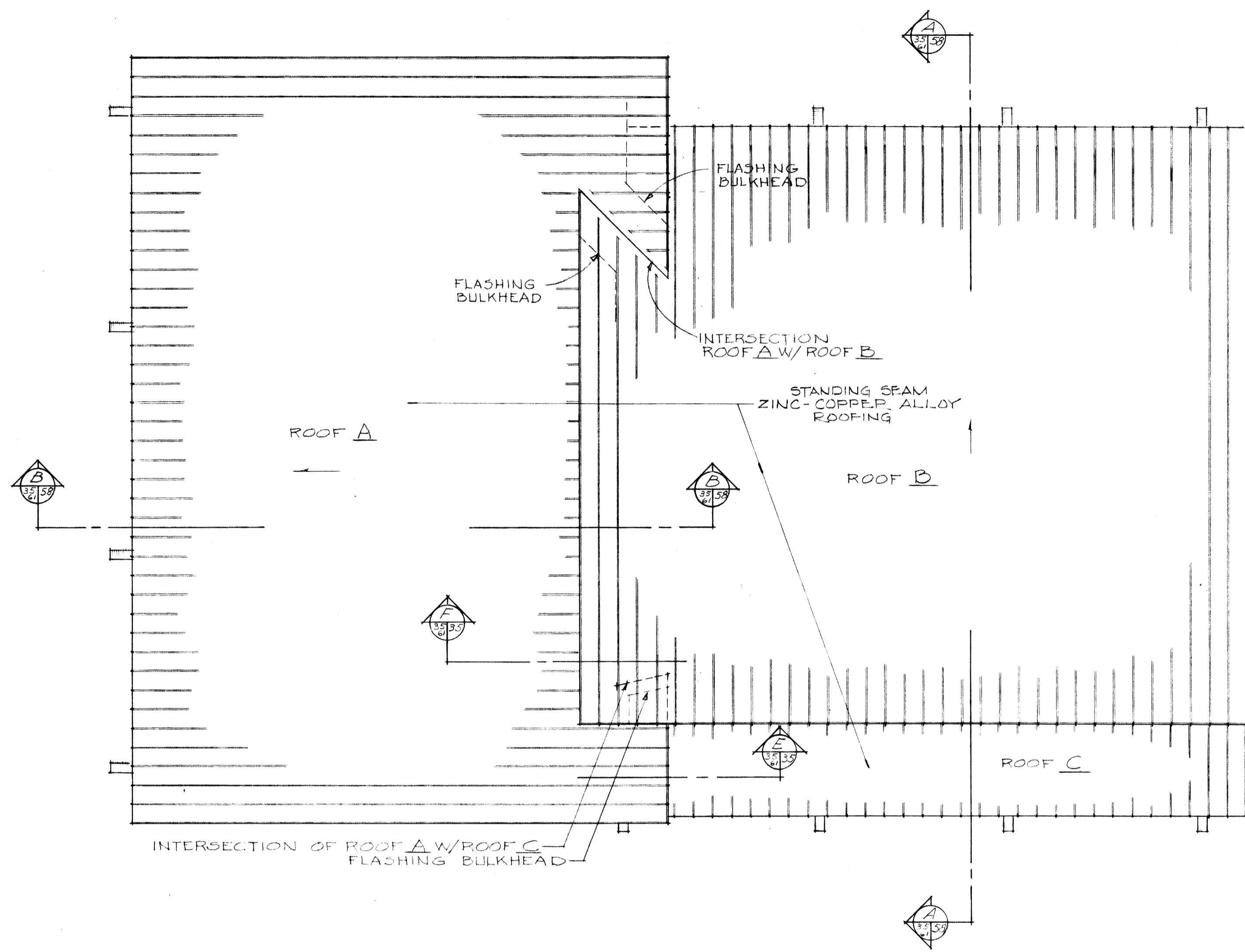


FRAMING: F.A. & EXH. LOUVERS
SCALE: 3/4" = 1'-0"

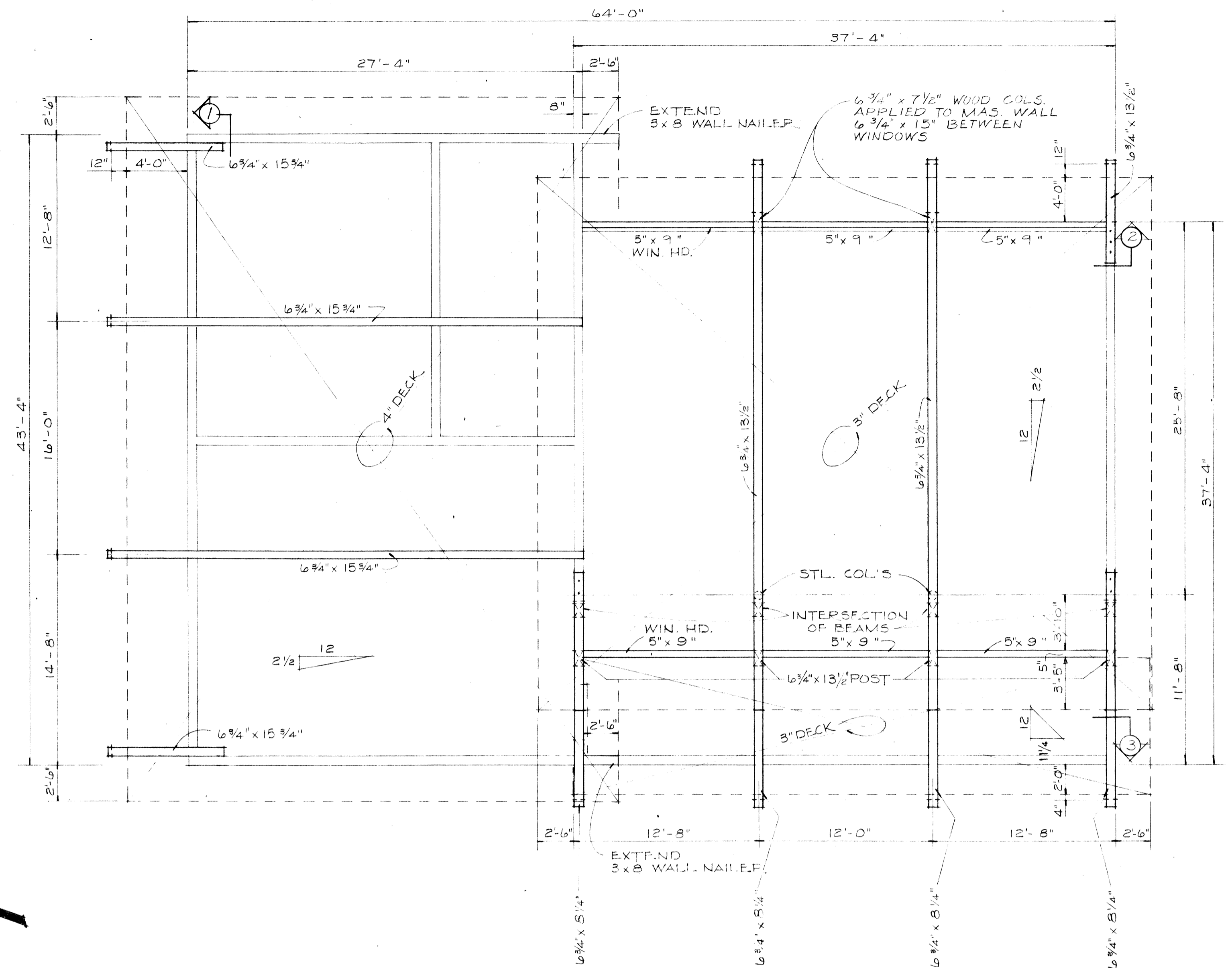
BURGESS & NIPL, LIMITED CONSULTING ENGINEERS
COLUMBUS, OHIO

DELAWARE COUNTY, OHIO
OLENTANGY ENVIRONMENTAL CONTROL CENTER
BLOWER BUILDING
ROOF PLAN & DETAILS

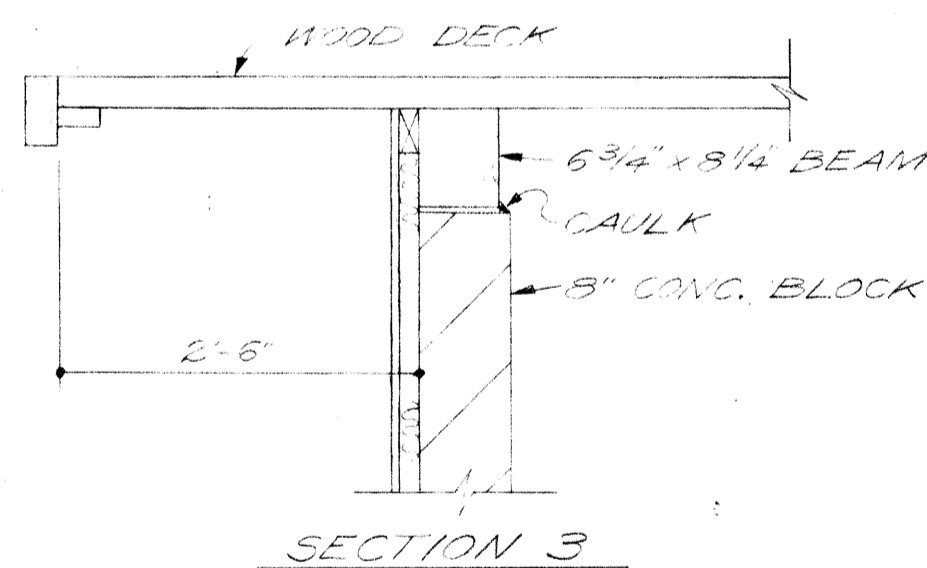
REVISIONS APRIL, 1975	DRAWN BY YUN	CHECKED BY
JUNE, 1973	TRACED BY DEH	APPROVED BY
SCALE: 3/16" = 1'-0"		SHEET 60 OF 75



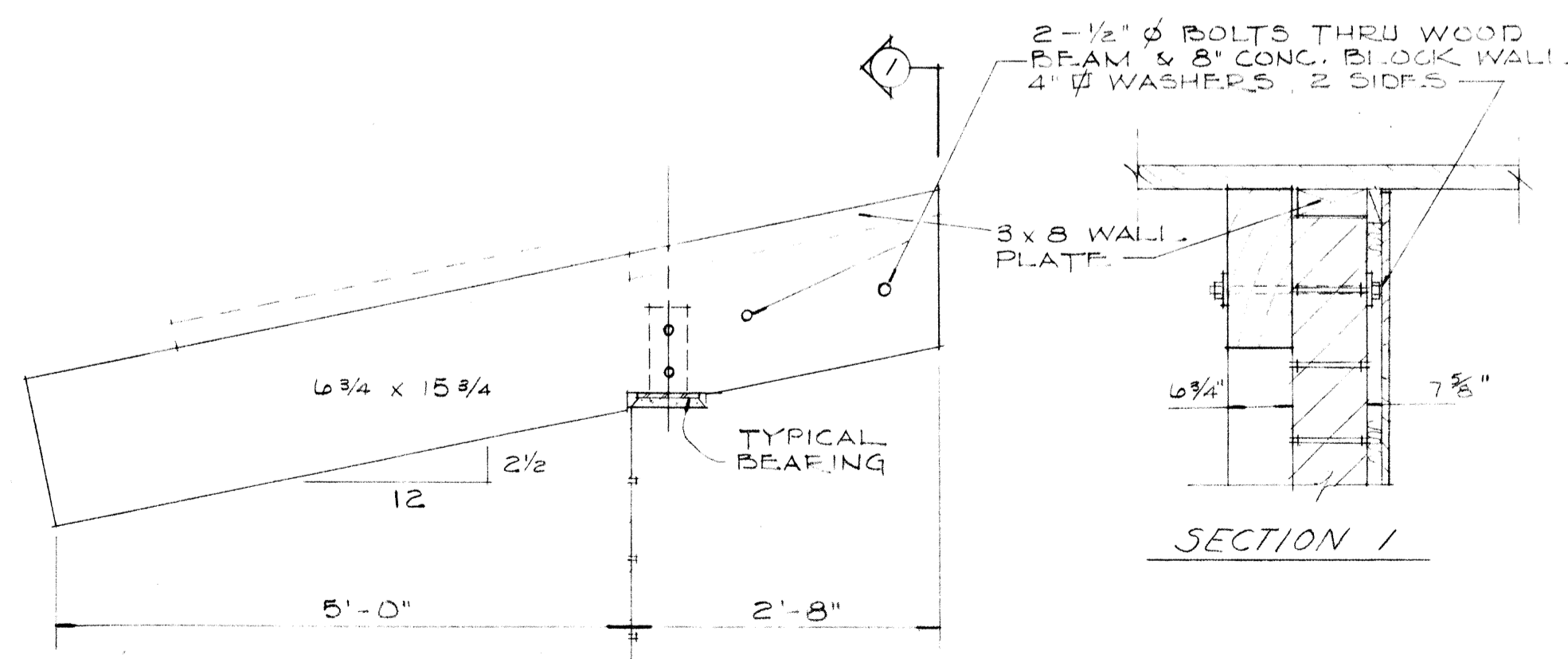
ROOF PLAN



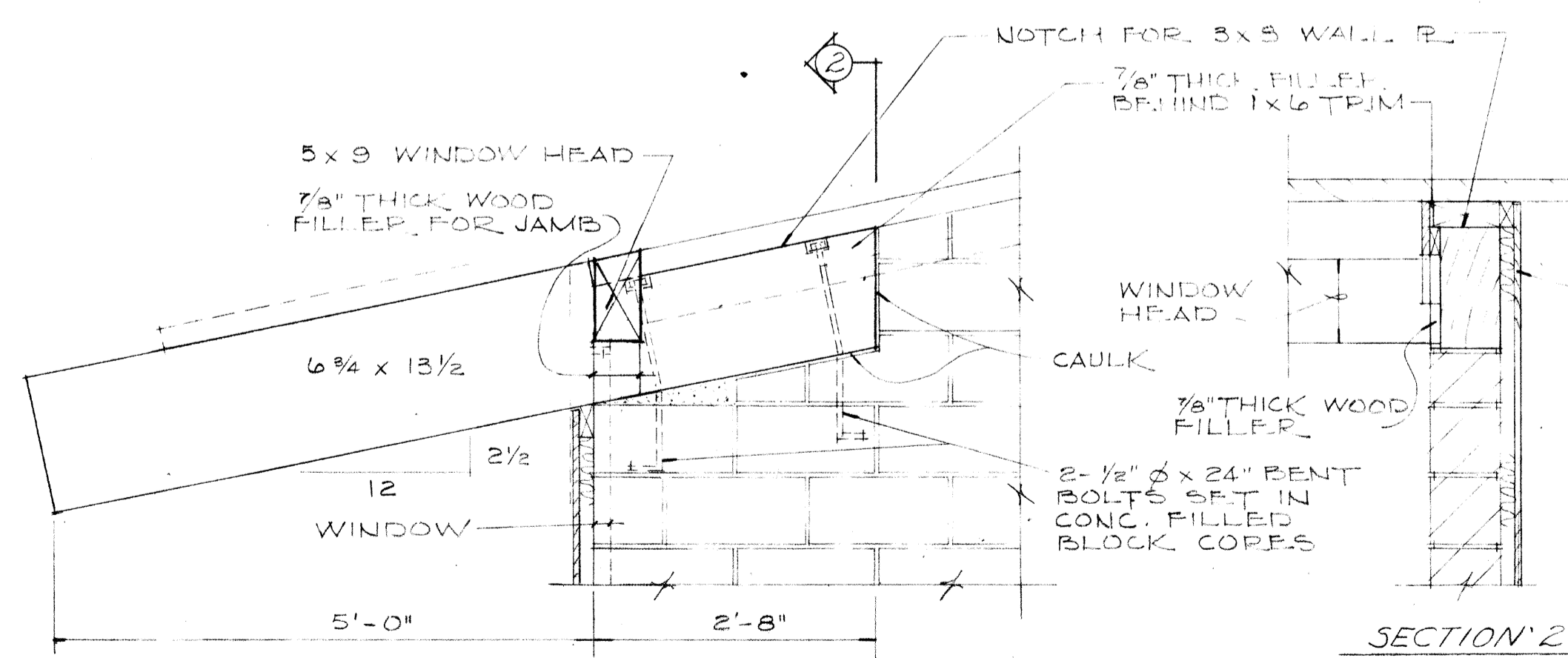
FRAMING PLAN



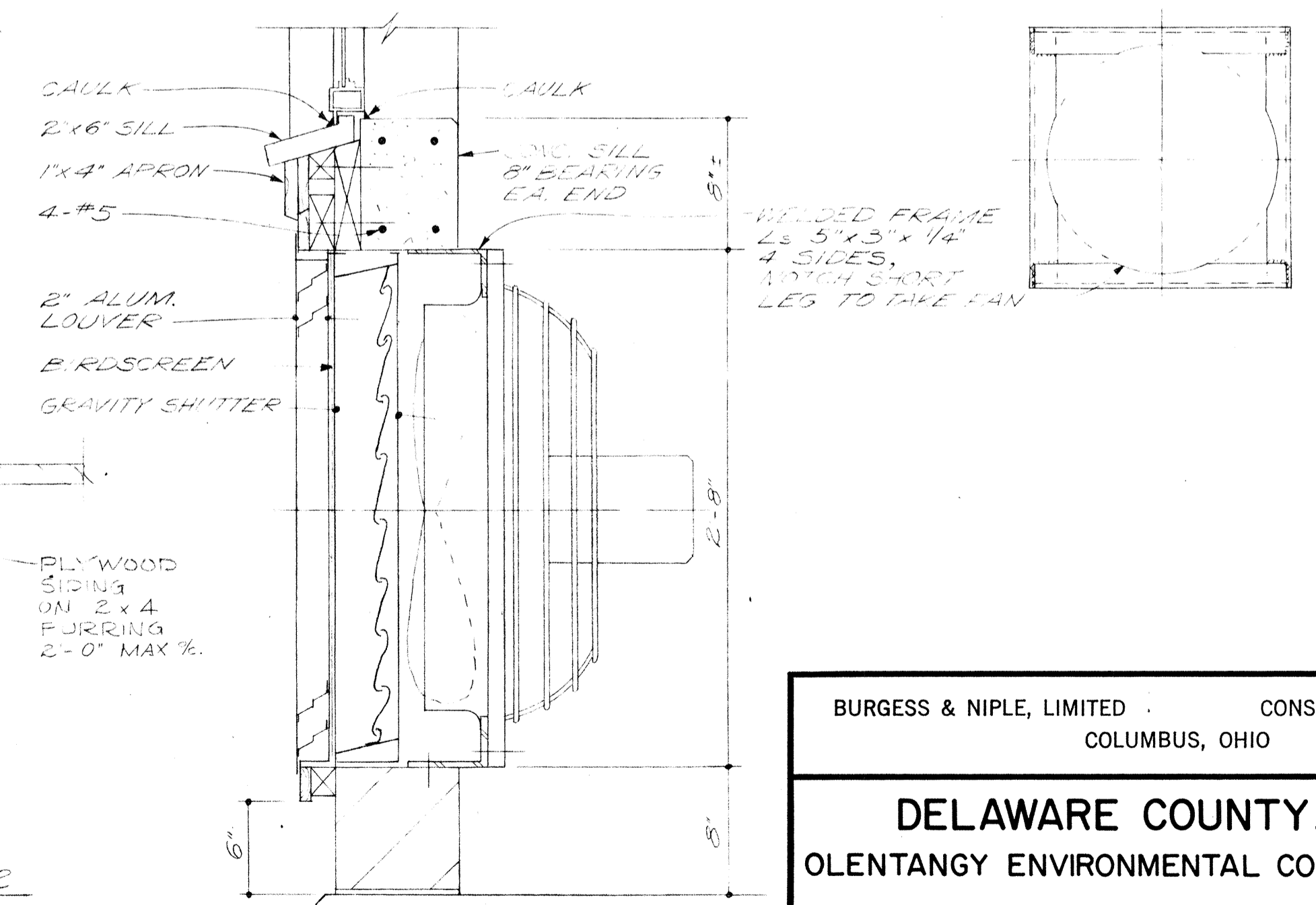
SECTION 3



SECTION 1



SECTION 2



SECTION 2

OUTLOOKERS
N.E. & N.W. CORNERS
SCALE: 3/4" = 1'-0"

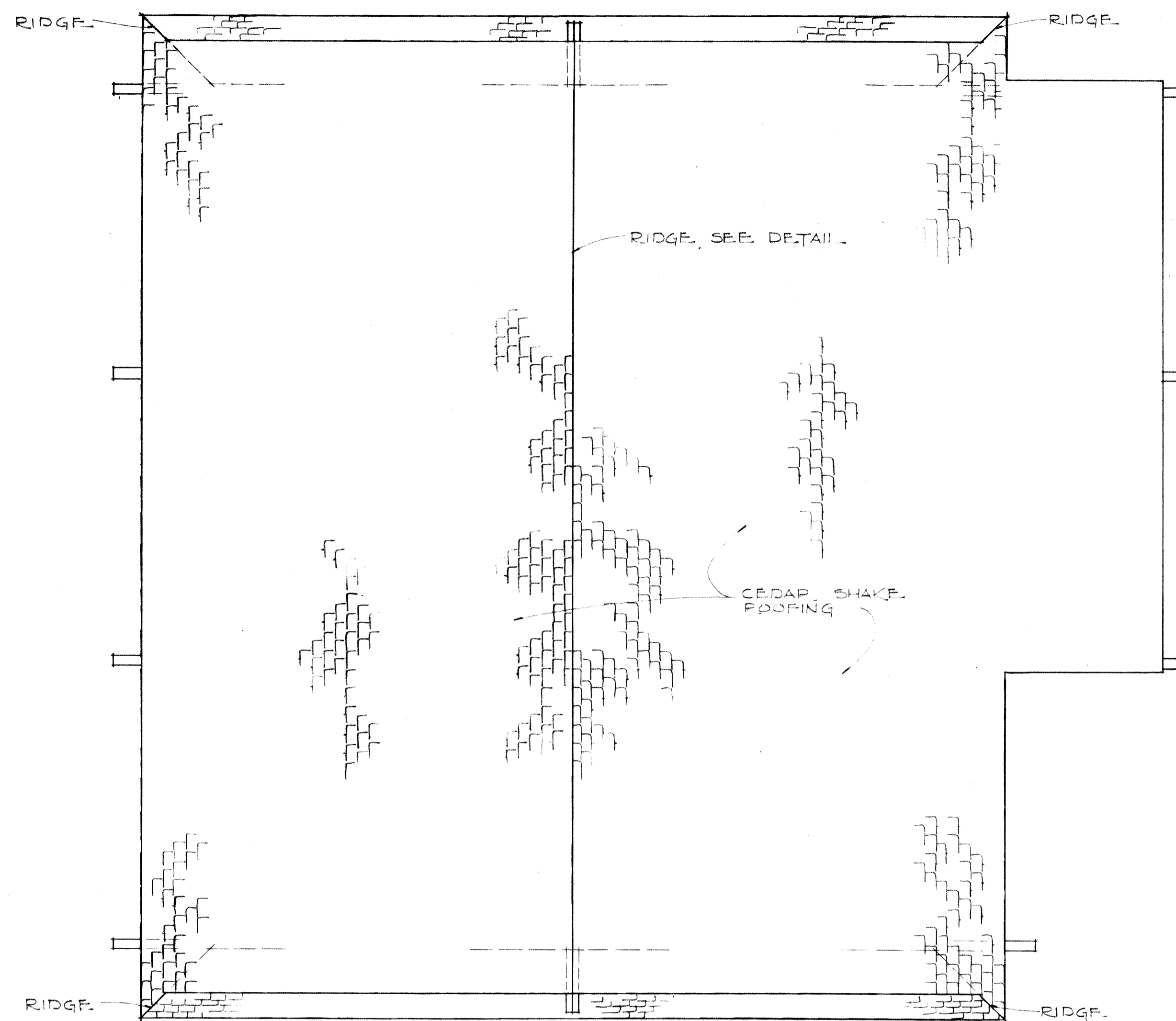
OUTLOOKER
S.F. CORNER
SCALE: 3/4" = 1'-0"

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COLUMBUS, OHIO

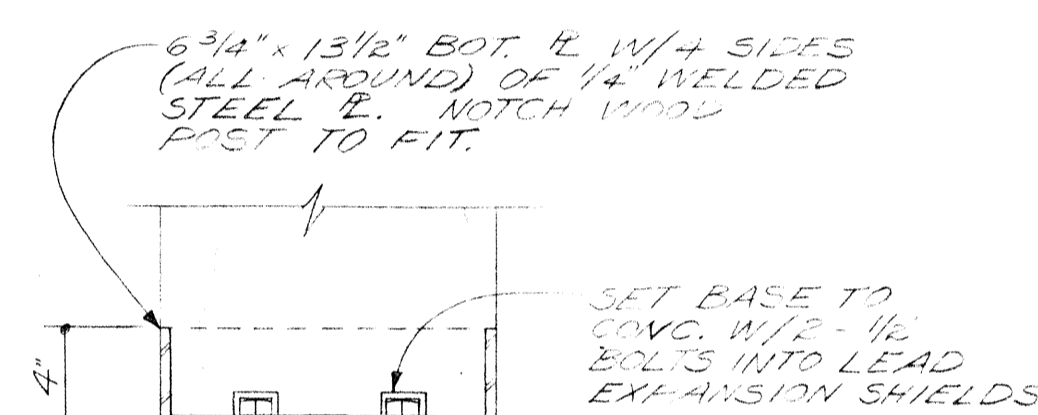
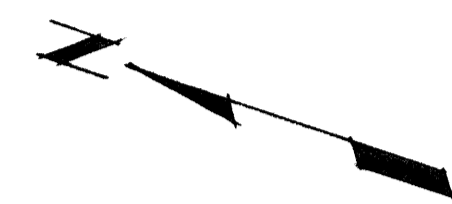
DELAWARE COUNTY, OHIO
OLENTANGY ENVIRONMENTAL CONTROL CENTER

TERTIARY BUILDING
ROOF PLAN & DETAILS

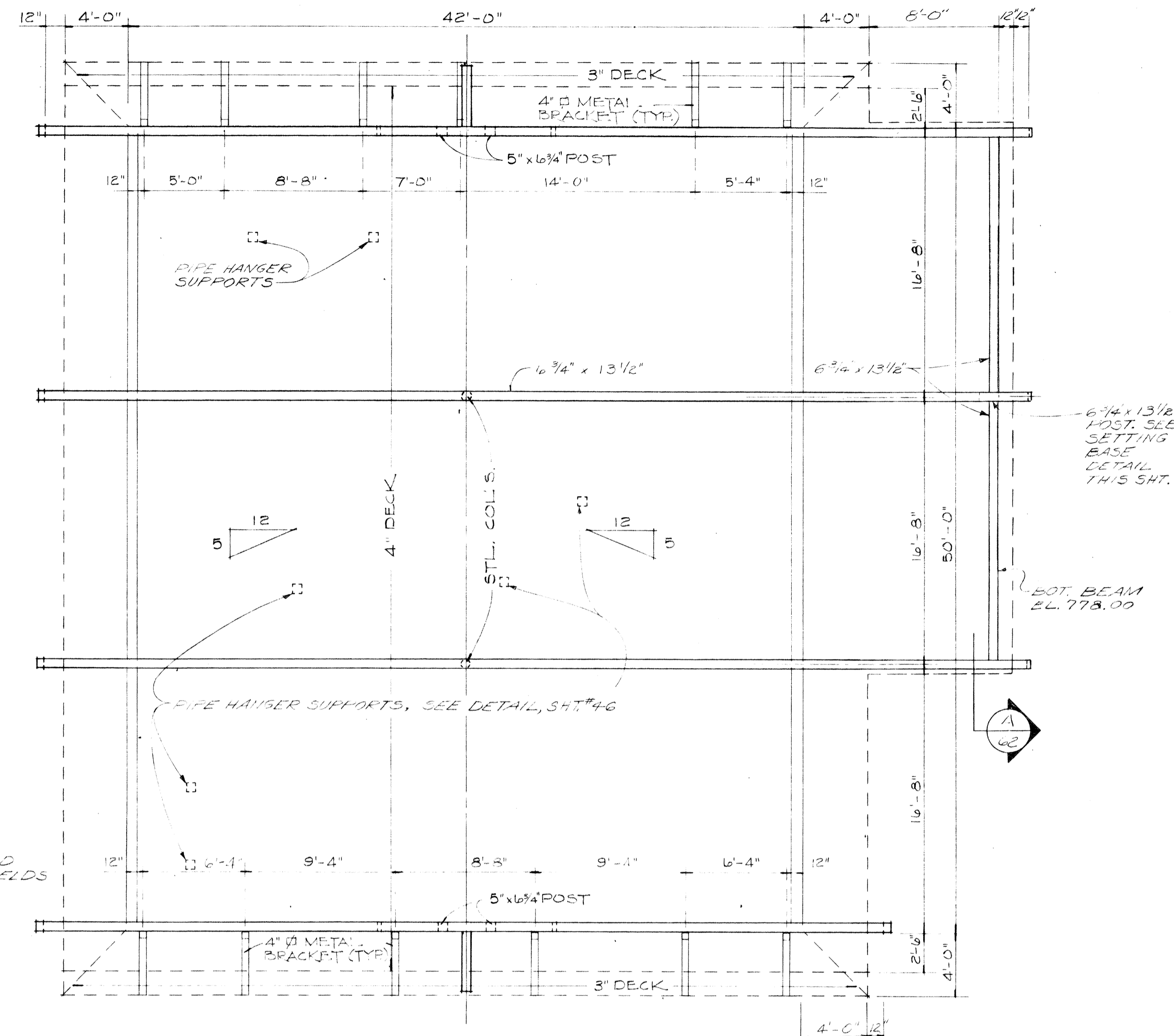
REVISIONS APRIL, 1975	DRAWN BY WJN TRACED BY DEH	CHECKED BY APPROVED BY
JUNE, 1973	SCALE: 3/16" = 1'-0"	SHEET 61 OF 75



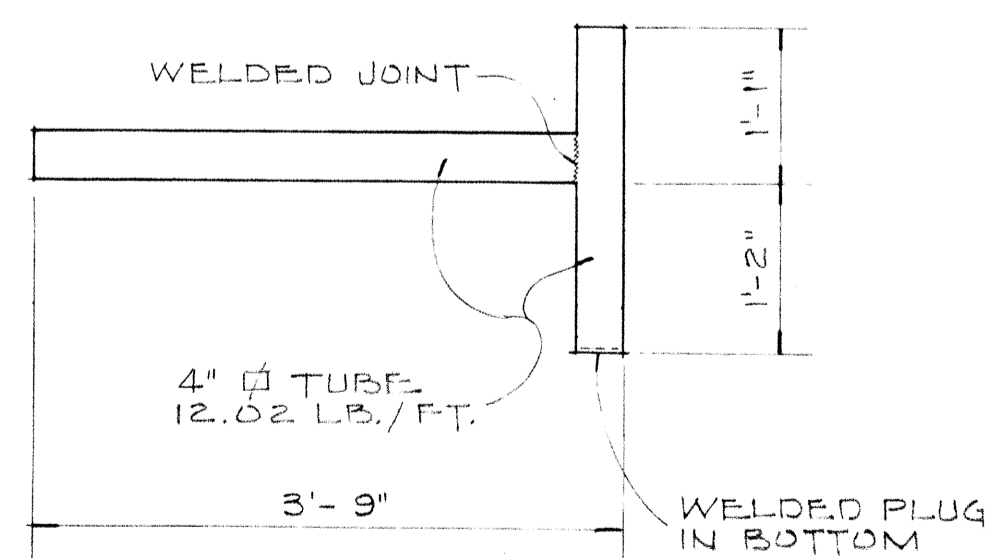
ROOF PLAN



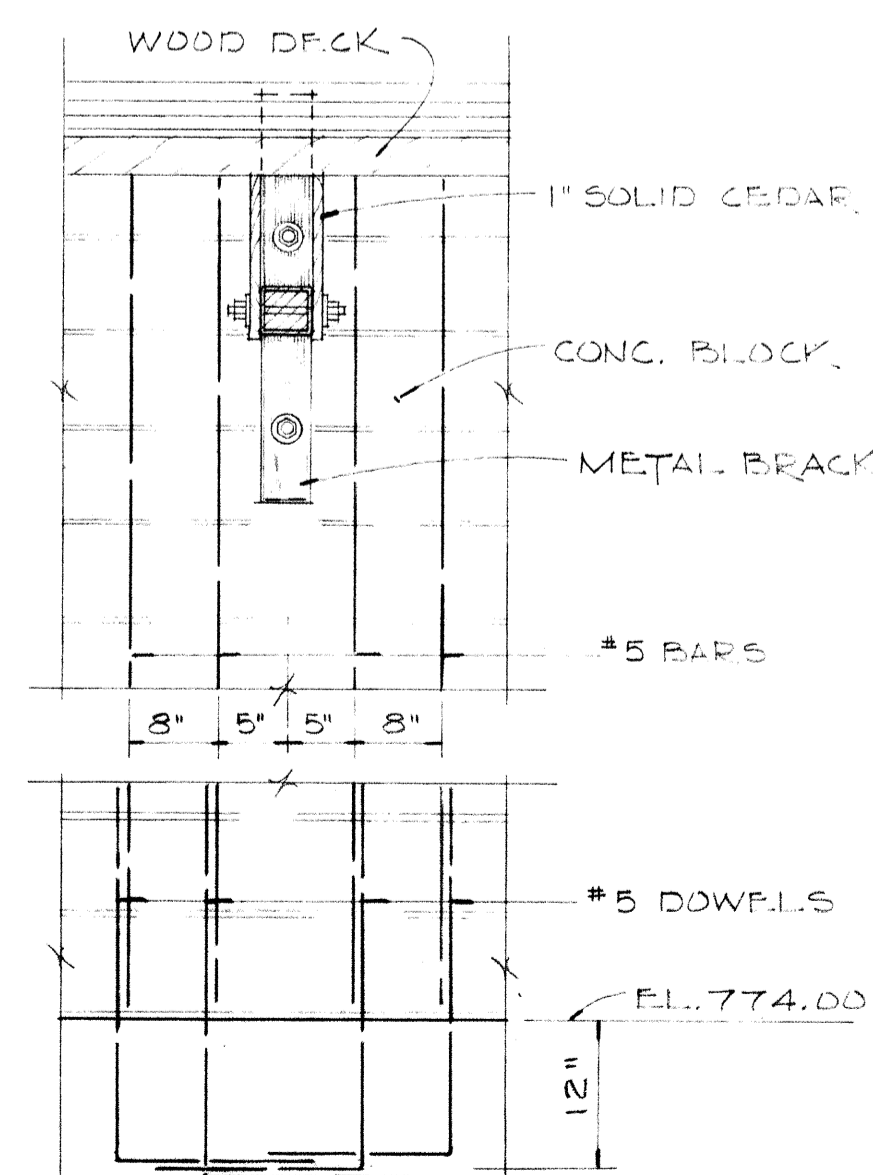
SETTING BASE
SCALE: 1/2" = 1'-0"



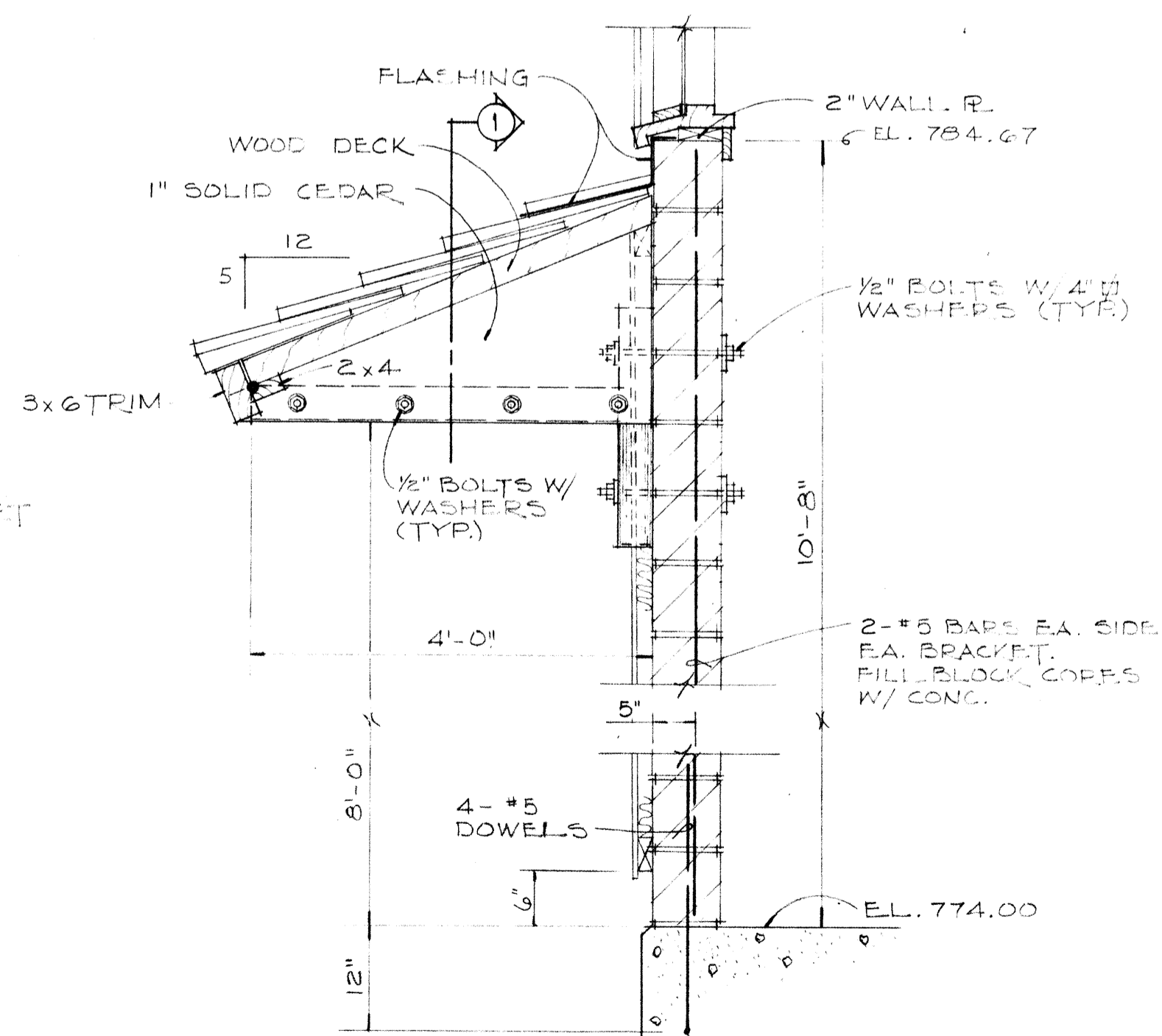
FRAMING PLAN



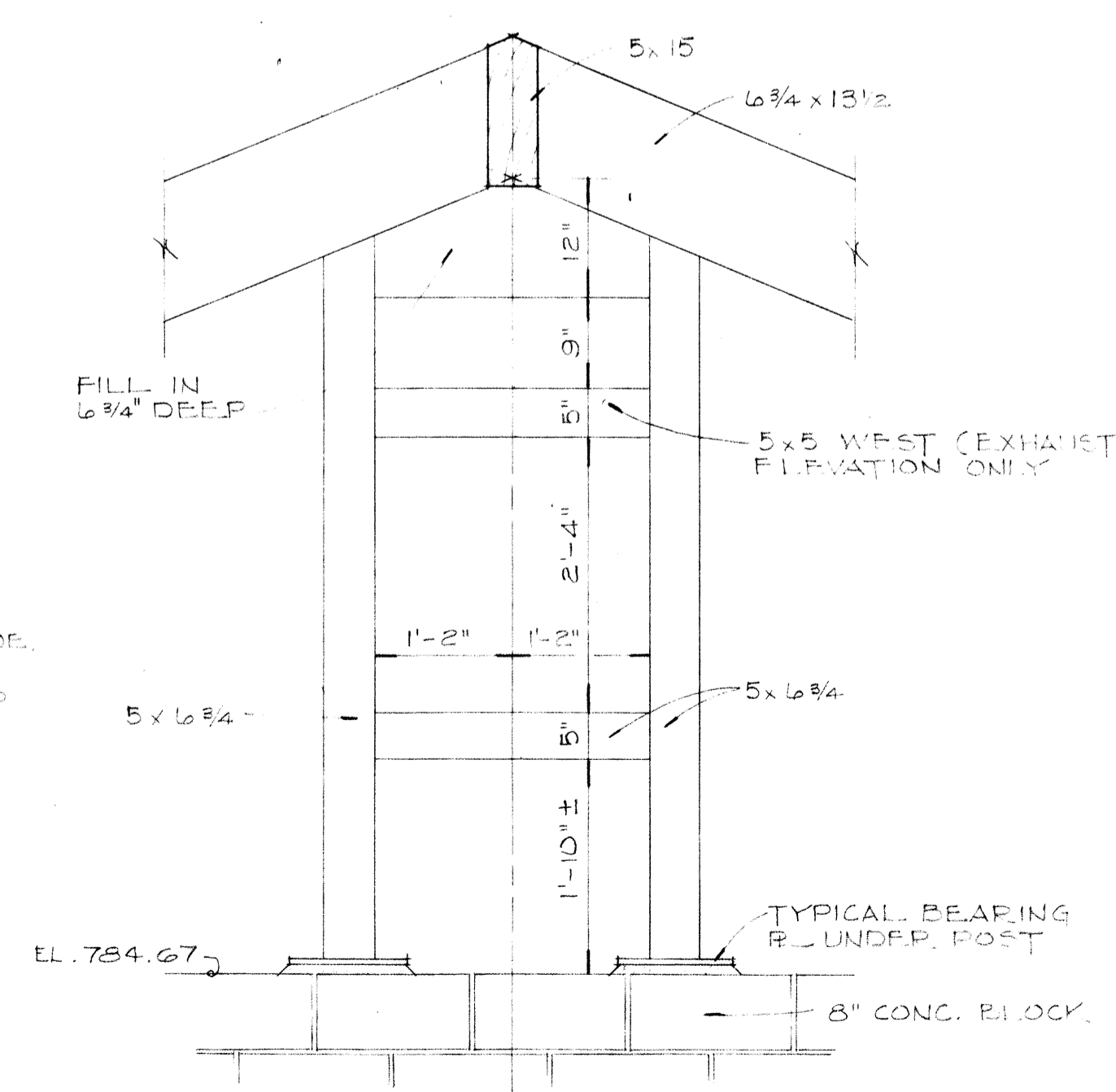
ELEV. OF METAL BRACKETS
SCALE: 3/4" = 1'-0"



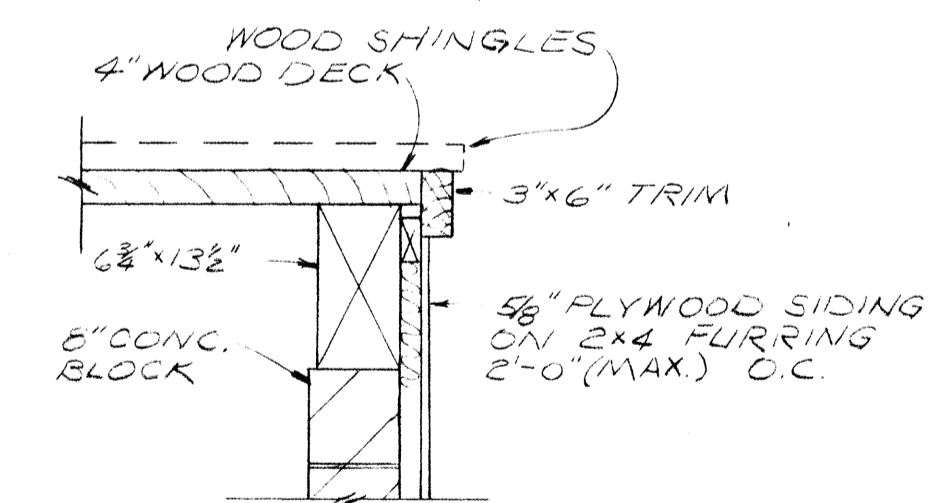
SECTION-1
SCALE: 3/4" = 1'-0"



WALL SECTION
EAST & WEST
SCALE: 3/4" = 1'-0"



FRAMING: F.A. & EXH.
LOUVERS
SCALE: 3/4" = 1'-0"

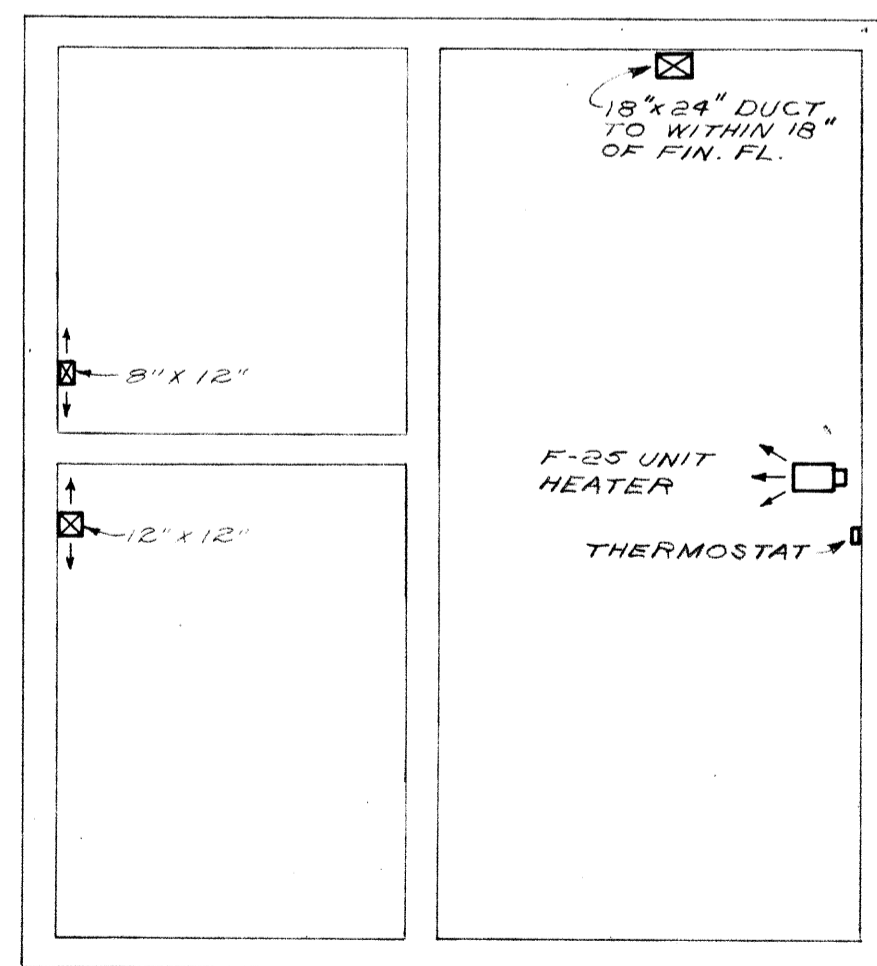
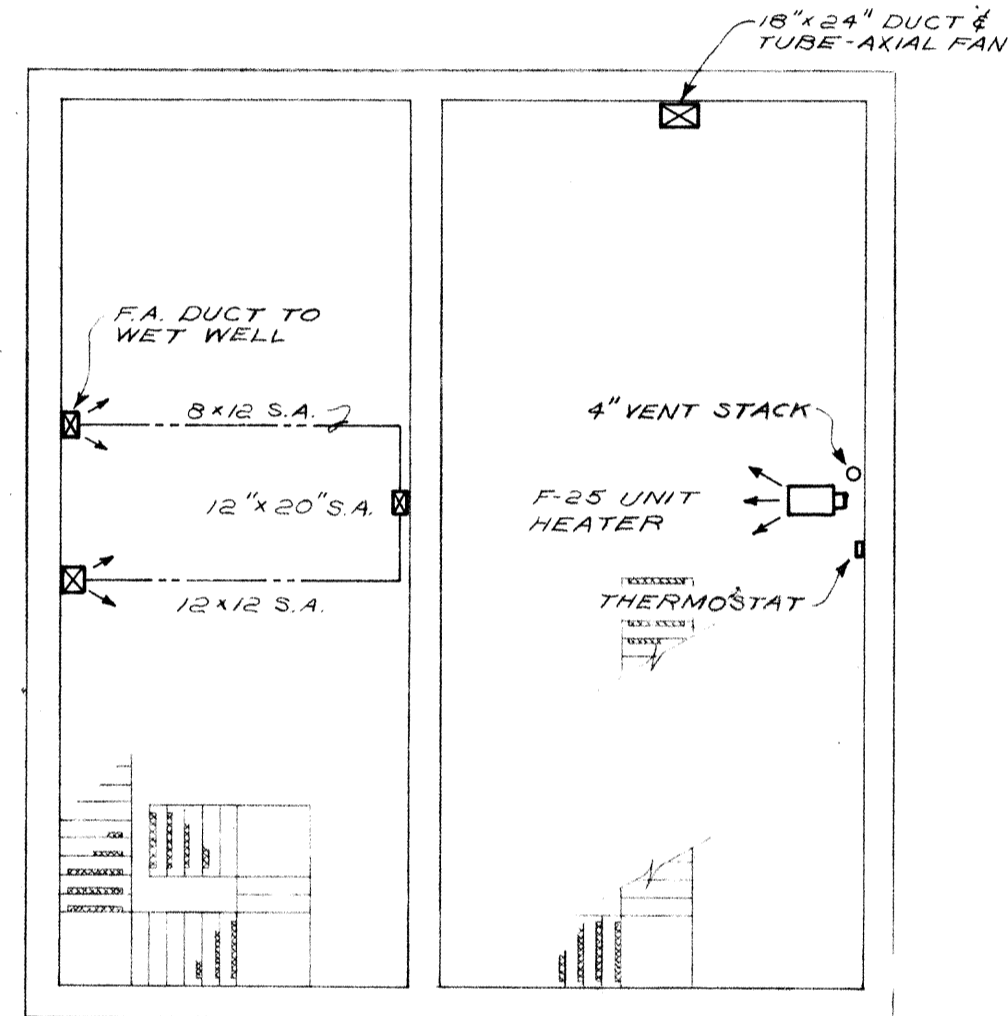
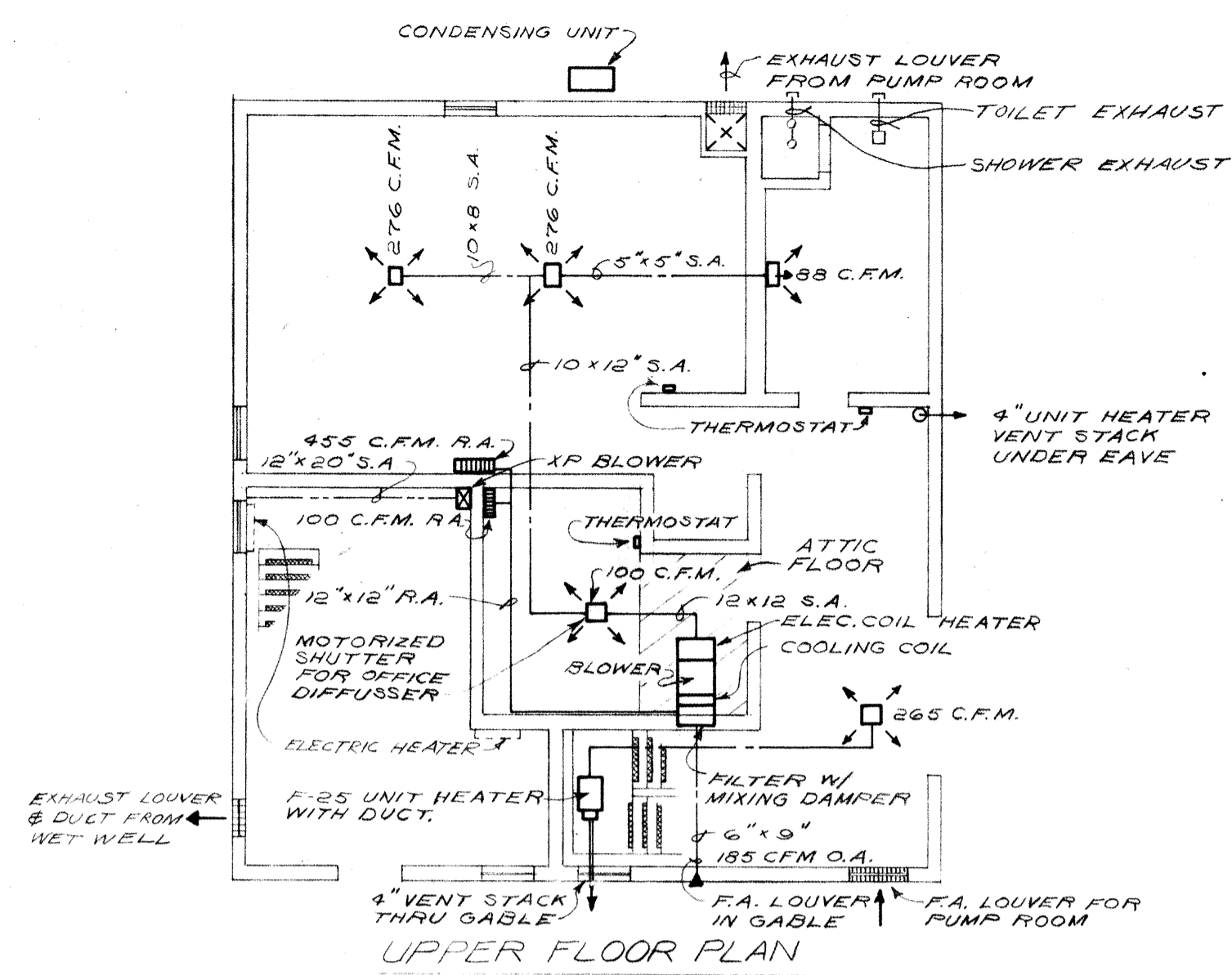


SECTION A
SCALE: 3/4" = 1'-0"

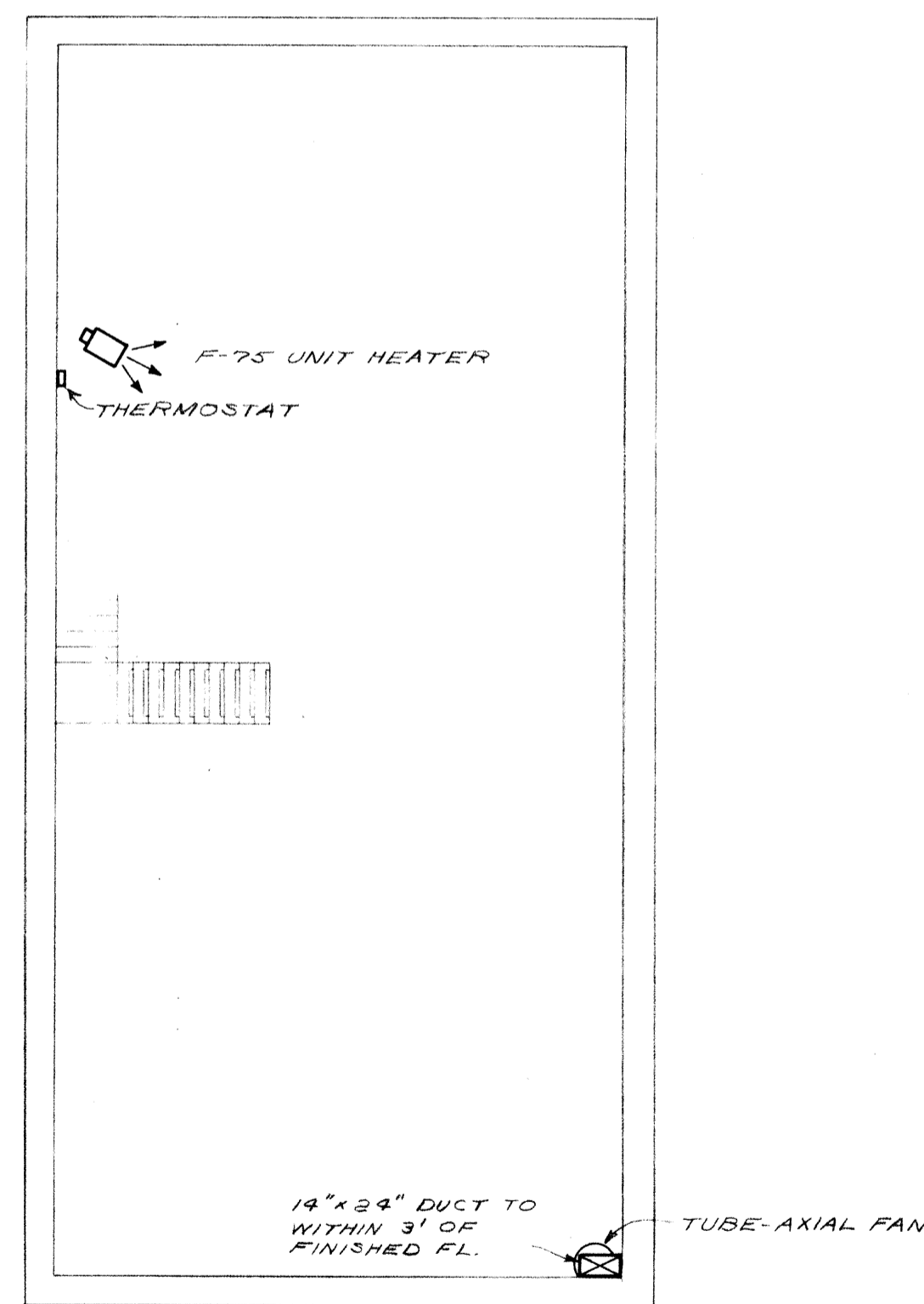
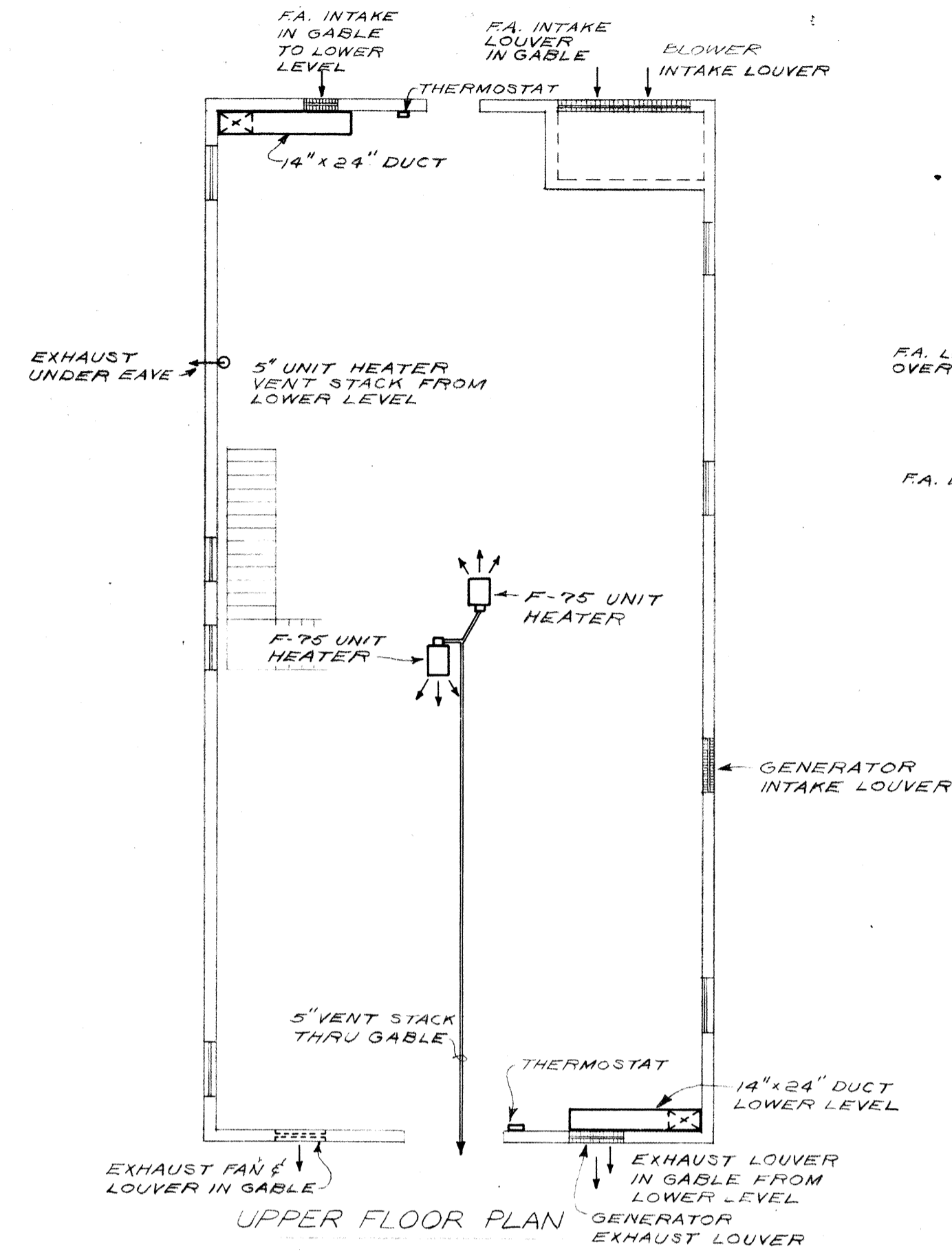
BURGESS & NIPL, LIMITED CONSULTING ENGINEERS
COLUMBUS, OHIO

DELAWARE COUNTY, OHIO
OLENTANGY ENVIRONMENTAL CONTROL CENTER
CONCENTRATOR BUILDING
ROOF PLAN & DETAILS

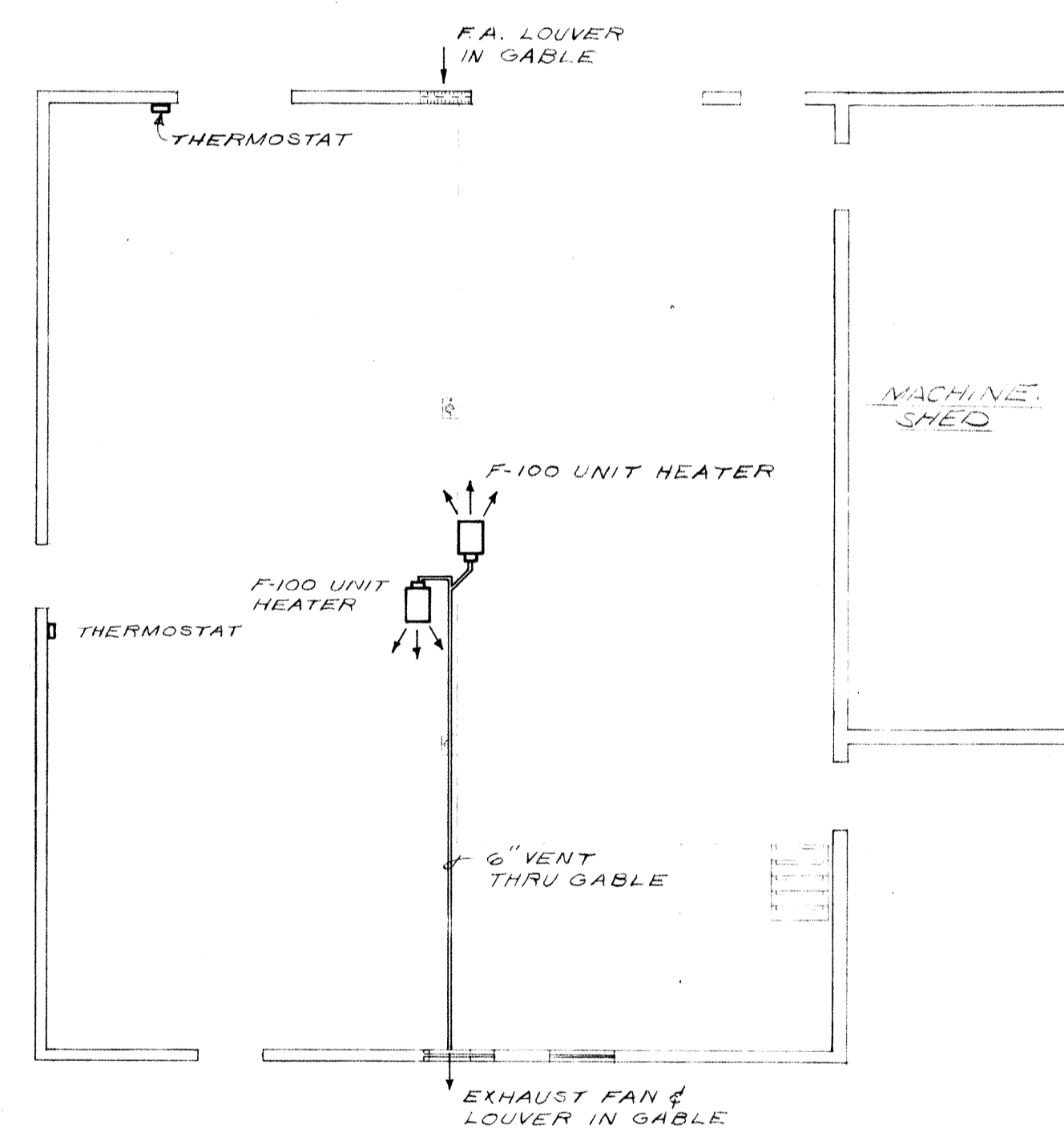
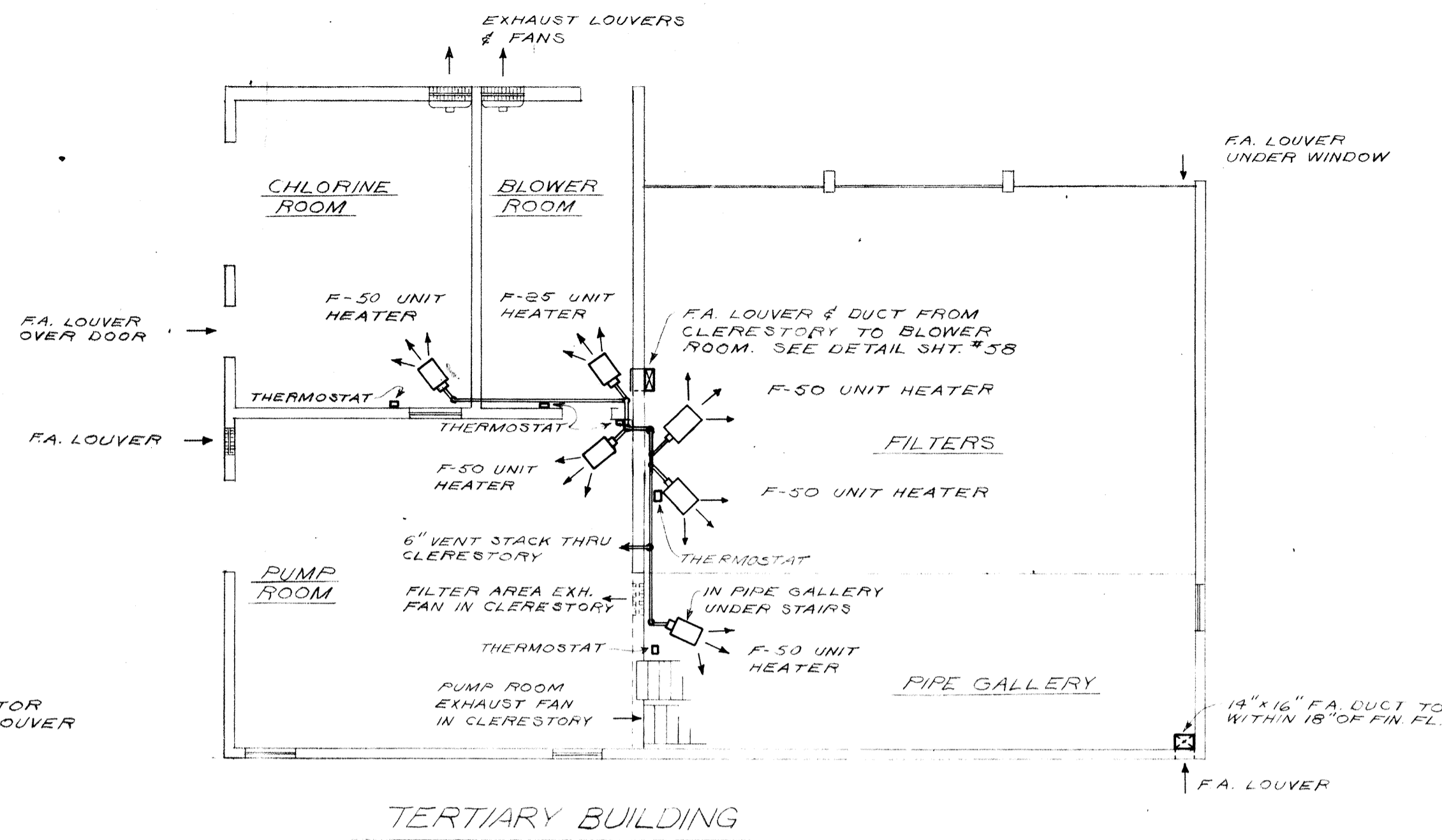
REVISIONS APRIL, 1975	DRAWN BY WJN TRACED BY DELH	CHECKED BY APPROVED BY
JUNE, 1973	SCALE: 3/16" = 1'-0"	SHEET 62 OF 75



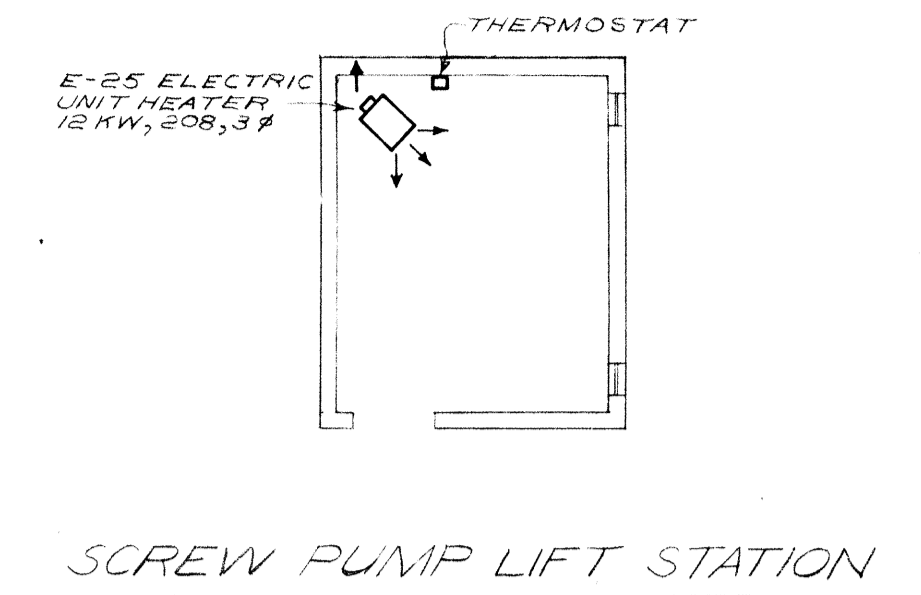
CONTROL BUILDING



BLOWER BUILDING



CONCENTRATOR BUILDING



UNIT HEATER SCHEDULE

UNIT MARK	TYPE	QUANTITY	MIN. INPUT BTU/HR	MIN. INPUT BTU/HR	MIN. CFM @ 70°F	METER DATA					
						SPEED	RPM	VOLTAGE	PHASE	H.P.	CONTROL
F-25	GAS FIRED	6	25,000	20,000	265	SINGLE	1050	120	SINGLE	1/40	THER.
F-50	GAS FIRED	3	50,000	40,000	530	SINGLE	1050	120	SINGLE	1/40	THER.
F-75	GAS FIRED	3	75,000	60,000	795	SINGLE	1050	120	SINGLE	1/40	THER.
F-100	GAS FIRED	2	100,000	80,000	1230	SINGLE	1050	120	SINGLE	1/15	THER.
E-25	ELECTRICAL	1	12KW, 208, 3#		400	SINGLE	1050	208/240	SINGLE	1/50	THER.

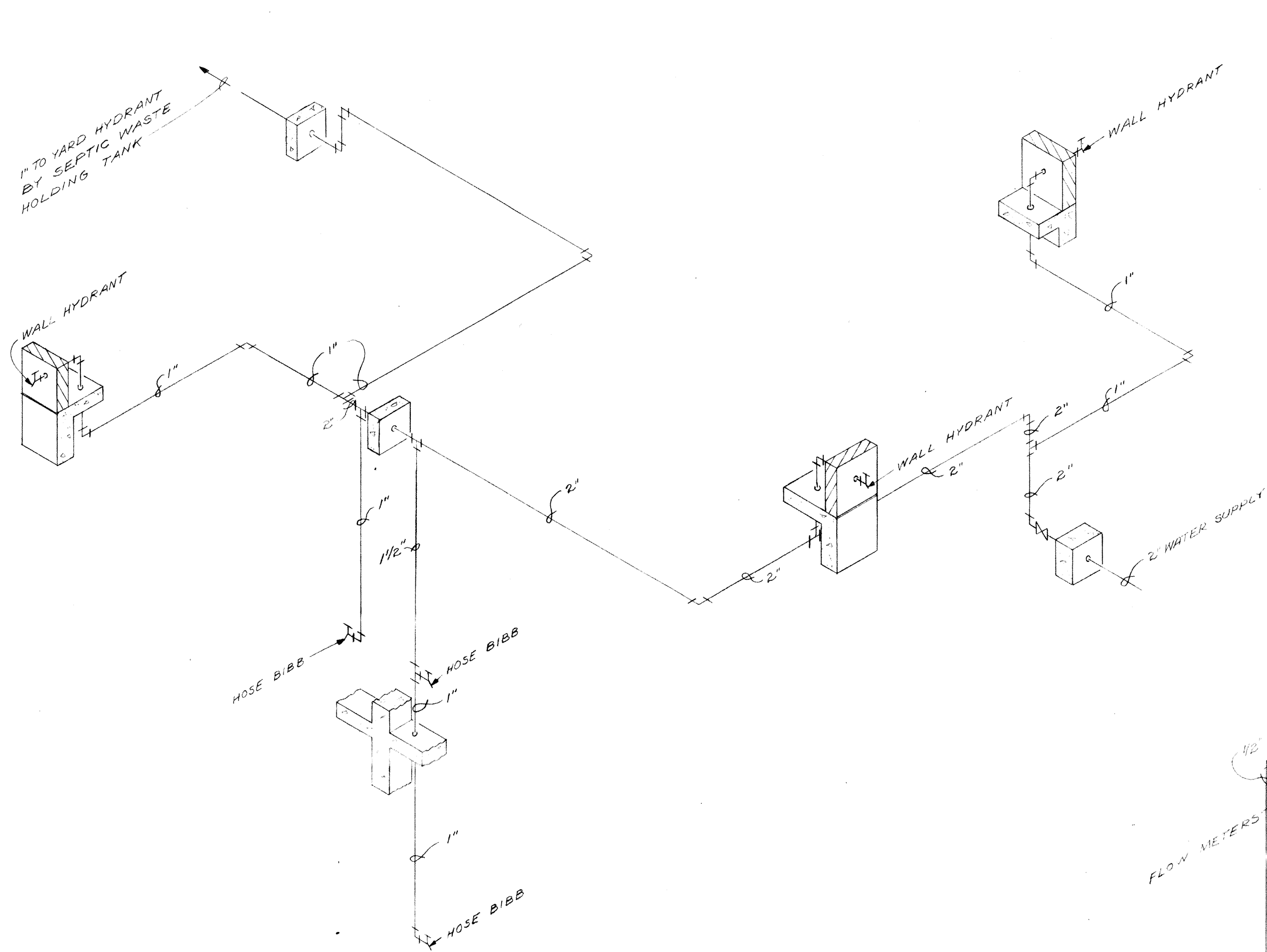
NOTE: ALL GAS FIRED UNIT HEATERS TO HAVE POWER-VENTERS.

BURGESS & NIPLE, LIMITED CONSULTING ENGINEERS
COLUMBUS, OHIO

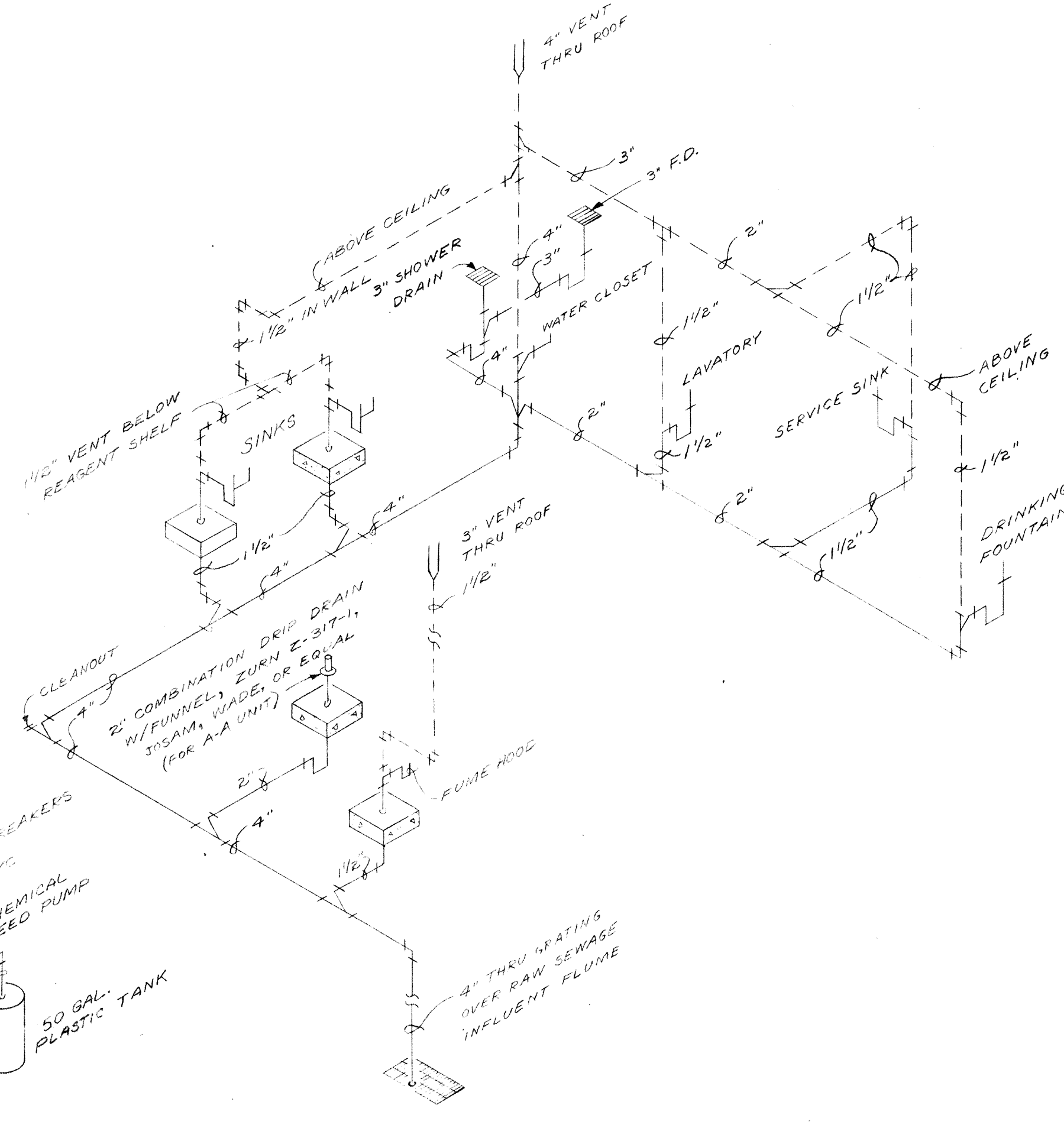
DELAWARE COUNTY, OHIO
OLENTANGY ENVIRONMENTAL CONTROL CENTER

HEATING & VENTILATION

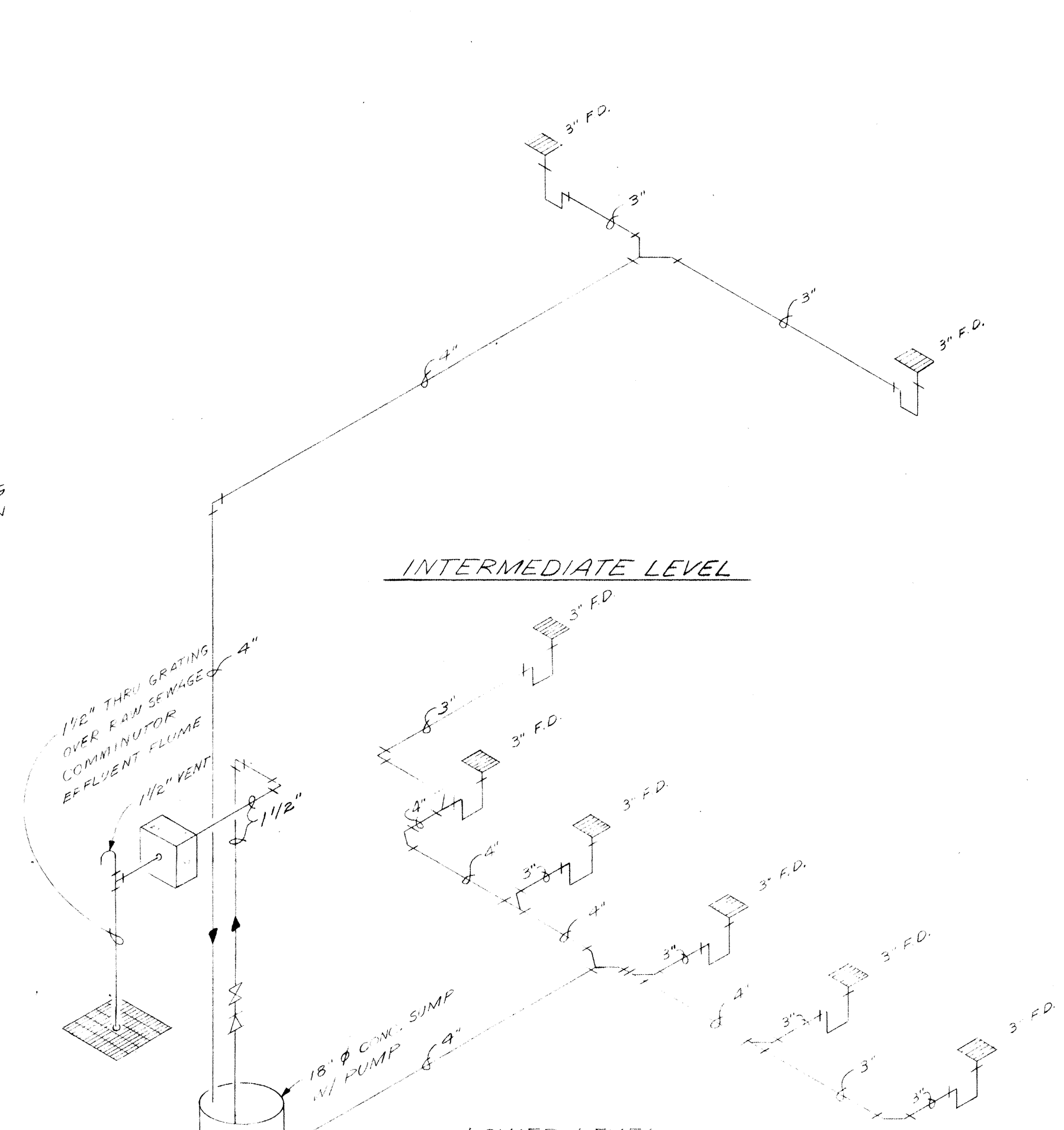
REVISIONS	DRAWN BY D.A.H.	CHECKED BY
APRIL, 1975	TRACED BY R.R.P.	APPROVED BY
JUNE, 1973	SCALE: 1/8" = 1'-0"	SHEET 63 OF 75



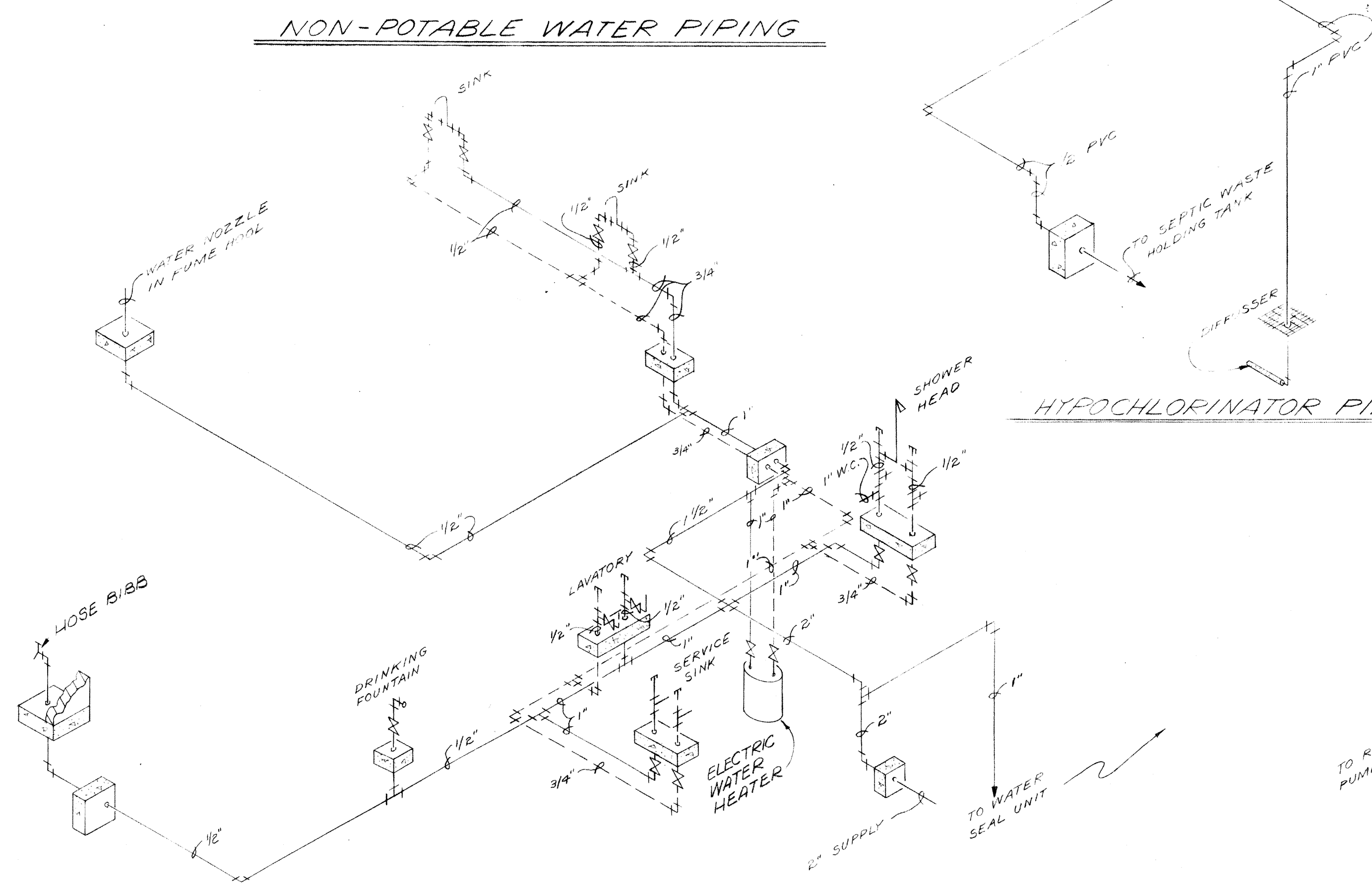
NON-POTABLE WATER PIPING



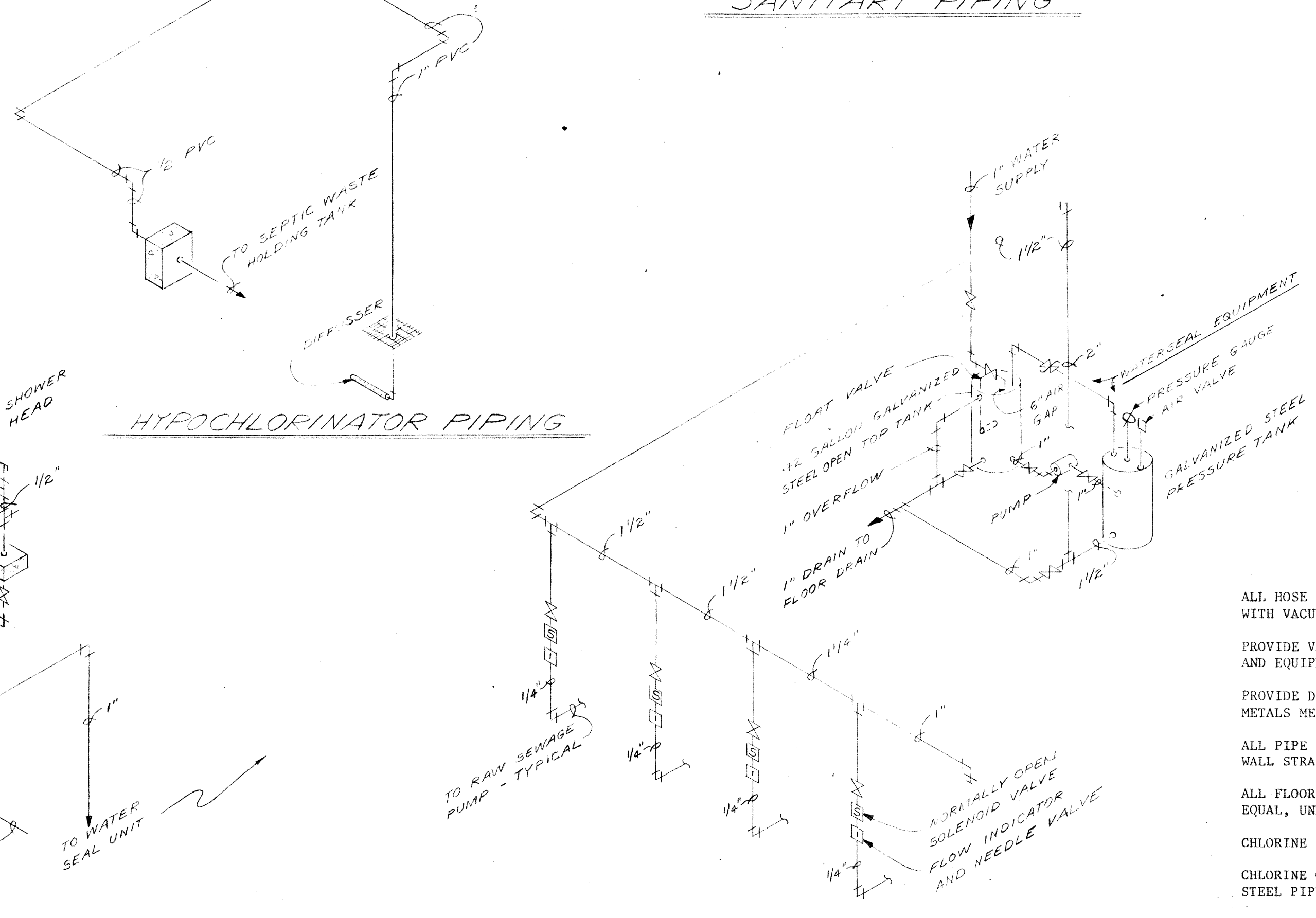
SANITARY PIPING



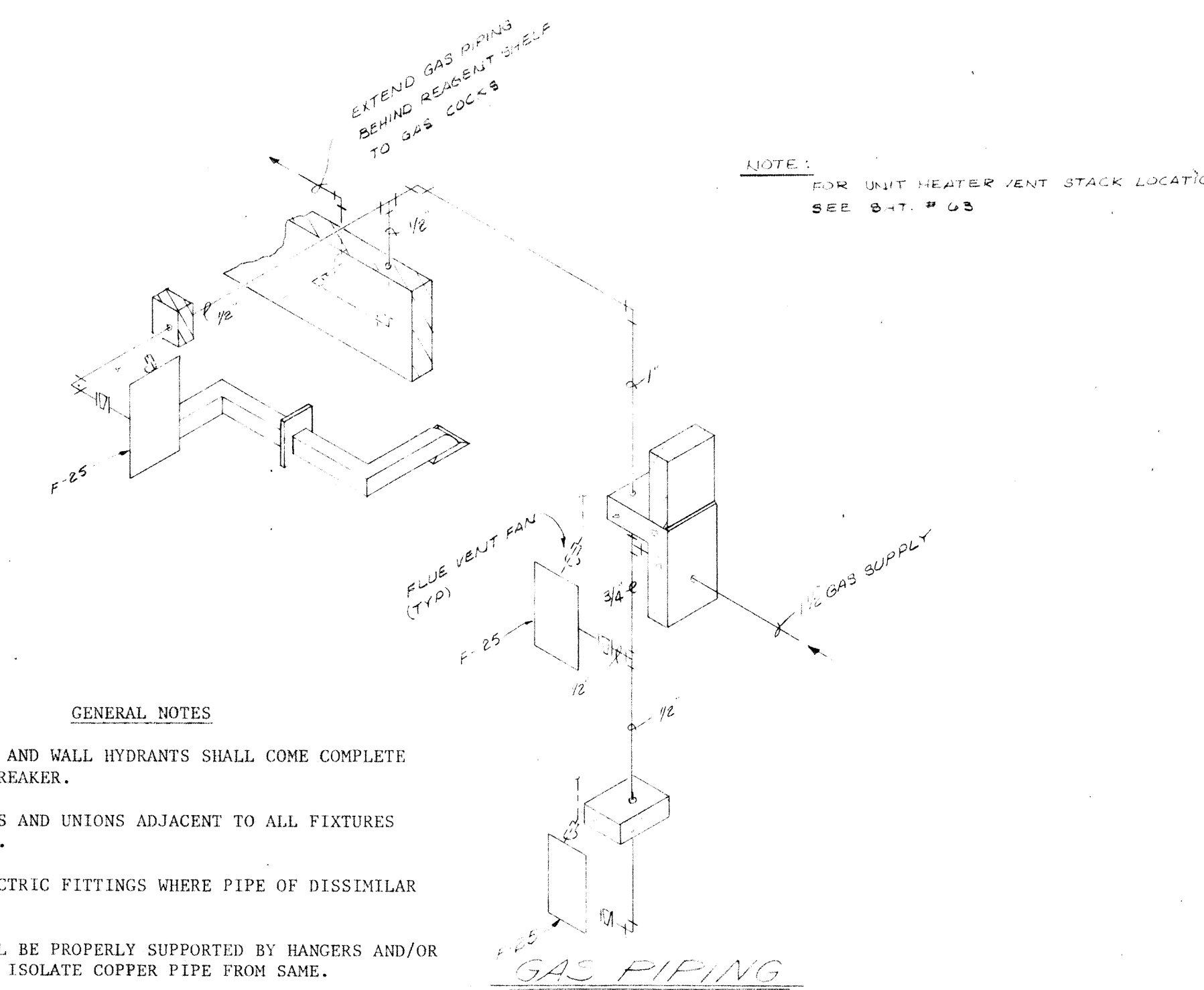
FLUSHING WATER DRAIN PIPING



POTABLE WATER PIPING



POTABLE WATER PIPING FOR WATERSEAL EQUIPMENT

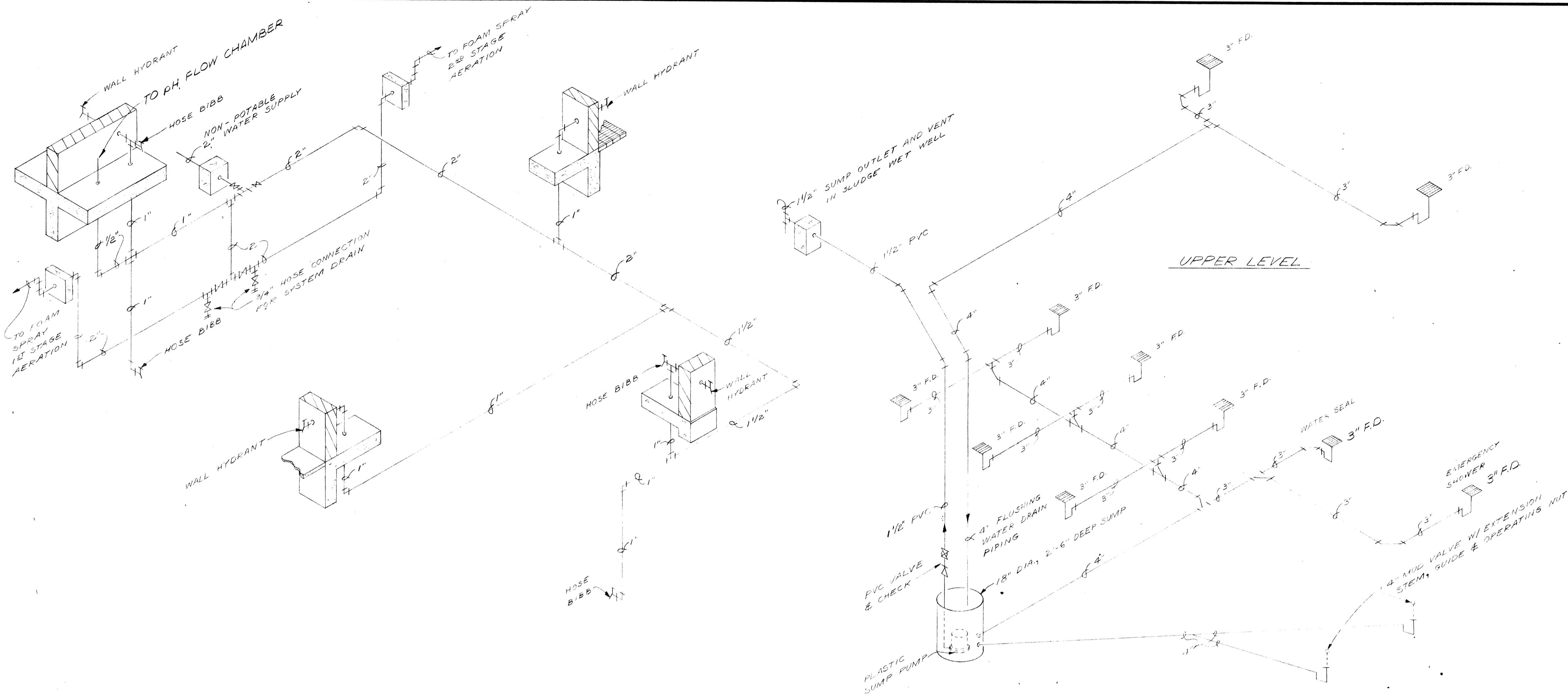


GAS PIPING

- GENERAL NOTES**
- ALL HOSE BIBS AND WALL HYDRANTS SHALL COME COMPLETE WITH VACUUM BREAKER.
 - PROVIDE VALVES AND UNIONS ADJACENT TO ALL FIXTURES AND EQUIPMENT.
 - PROVIDE DIELECTRIC FITTINGS WHERE PIPE OF DISSIMILAR METALS MEET.
 - ALL PIPE SHALL BE PROPERLY SUPPORTED BY HANGERS AND/OR WALL STRAPS. ISOLATE COPPER PIPE FROM SAME.
 - ALL FLOOR DRAINS SHALL BE ZURN Z-215, JOSAM, WADE OR EQUAL, UNLESS NOTED OTHERWISE.
 - CHLORINE SOLUTION LINES SHALL BE SCHEDULE 80 PVC.
 - CHLORINE GAS LINES SHALL BE SCHEDULE 80 SEAMLESS STEEL PIPE WITH MALLEABLE IRON FITTINGS.
 - ALL CHEMICAL FEED PIPING SHALL BE SCHEDULE 80 PVC.
 - ALL SANITARY AND WASTEWATER PIPING 2" AND OVER SHALL BE EXTRA HEAVY SOIL PIPE; 1 1/2" AND UNDER SHALL BE SCHEDULE 40, GALVANIZED YOLOU OR HARD COPPER, UNLESS NOTED AS PVC.
 - ALL PVC WASTE PIPING SHALL BE CS 272 SCHEDULE 40.
 - INTERIOR GAS PIPING SHALL BE SCHEDULE 80, BLACK STEEL. ALL EXTERIOR GAS LINES SHALL BE SCOTCHGUARD 202 SCHEDULE, 40 STEEL, BUTT WELDED.

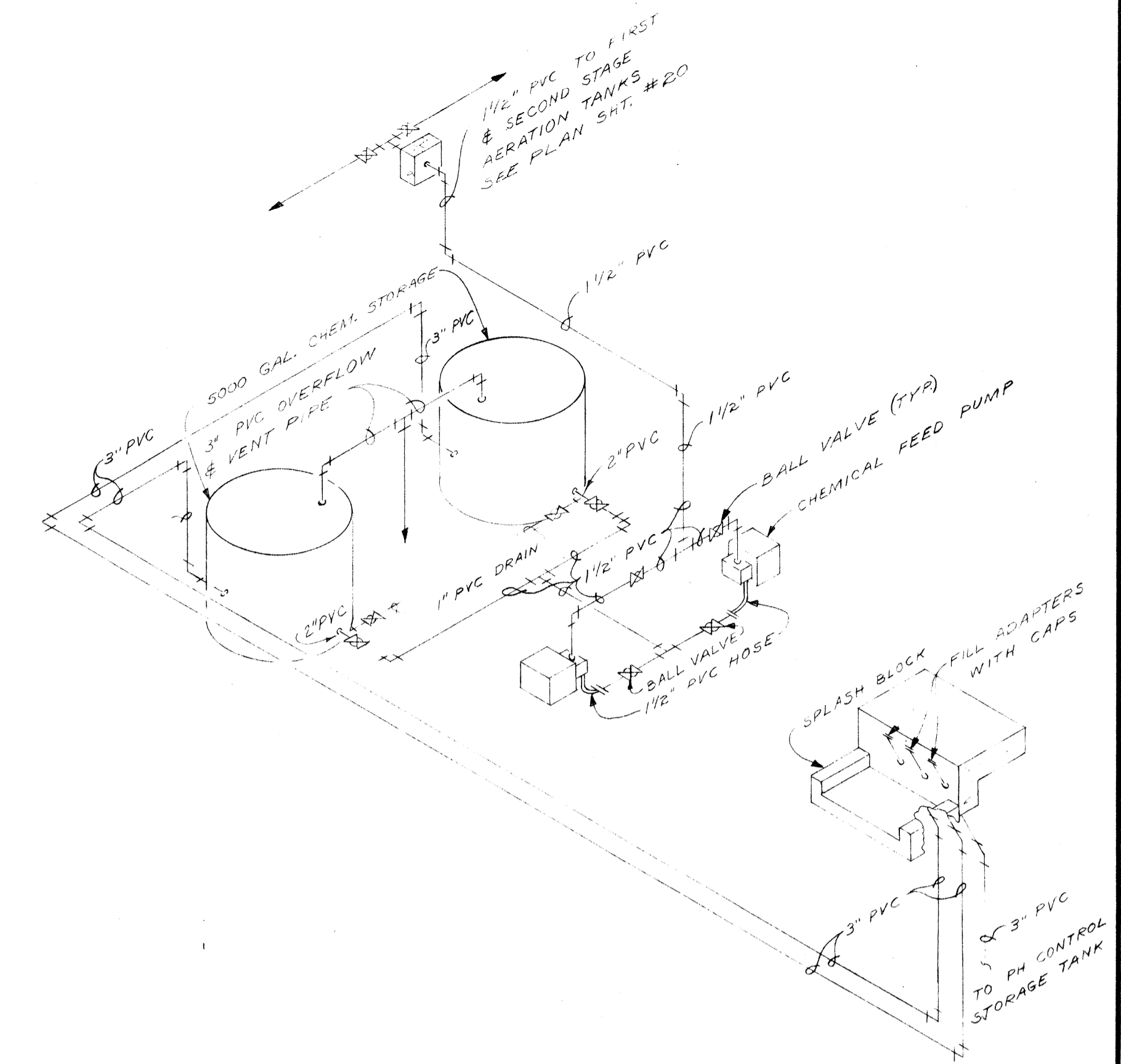
NOTE: FOR UNIT HEATER VENT STACK LOCATION SEE S-1, # 63

BURGESS & NIPLE, LIMITED		CONSULTING ENGINEERS	
		COLUMBUS, OHIO	
DELAWARE COUNTY, OHIO			
OLENTANGY ENVIRONMENTAL CONTROL CENTER			
CONTROL BUILDING SCHEMATICS			
REVISIONS	DRAWN BY <i>R.G.C.</i>	CHECKED BY	
APRIL, 1975	TRACED BY <i>G.M.D.</i>	APPROVED BY	
JUNE, 1973	SCALE: NONE	SHEET 64 OF 75	

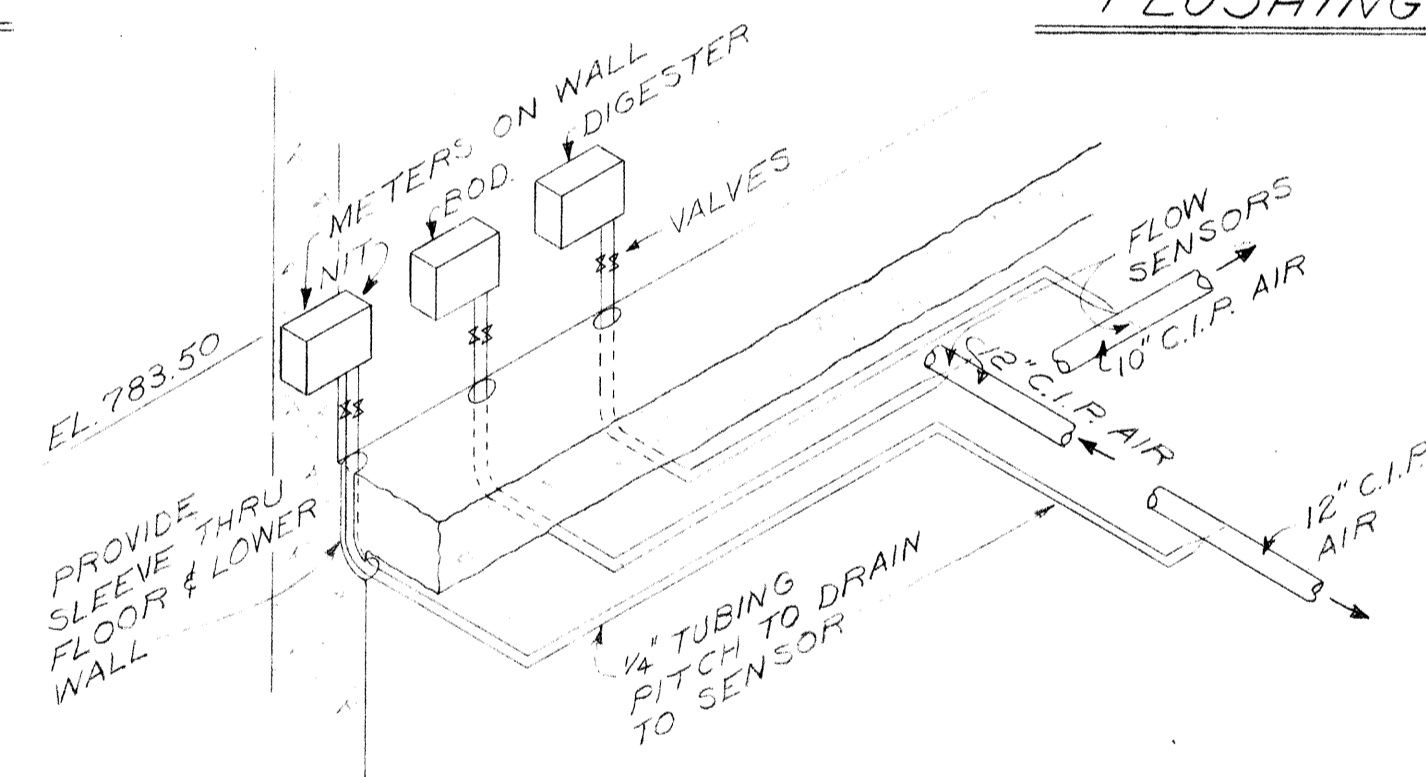


NON-POTABLE WATER PIPING

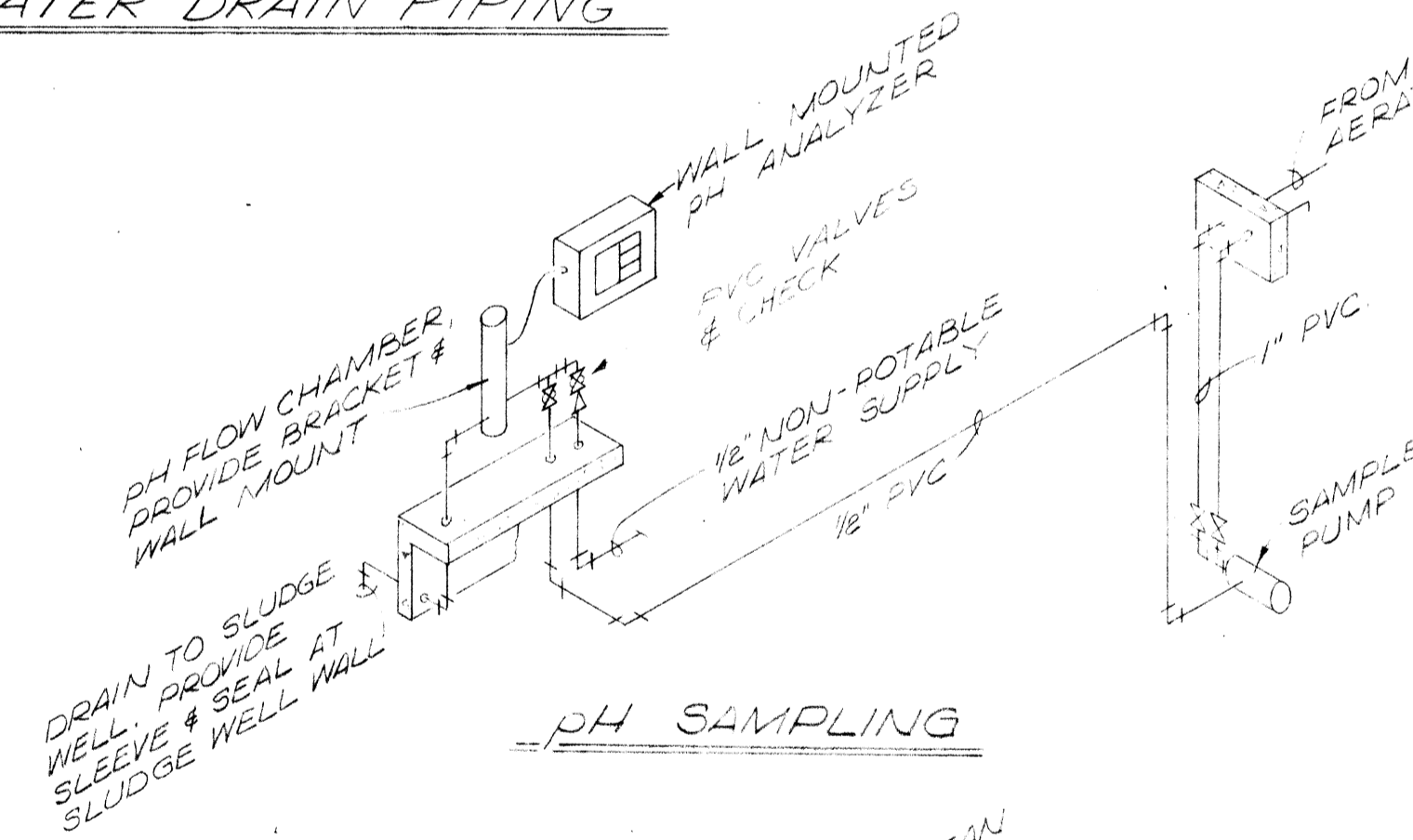
FLUSHING WATER DRAIN PIPING



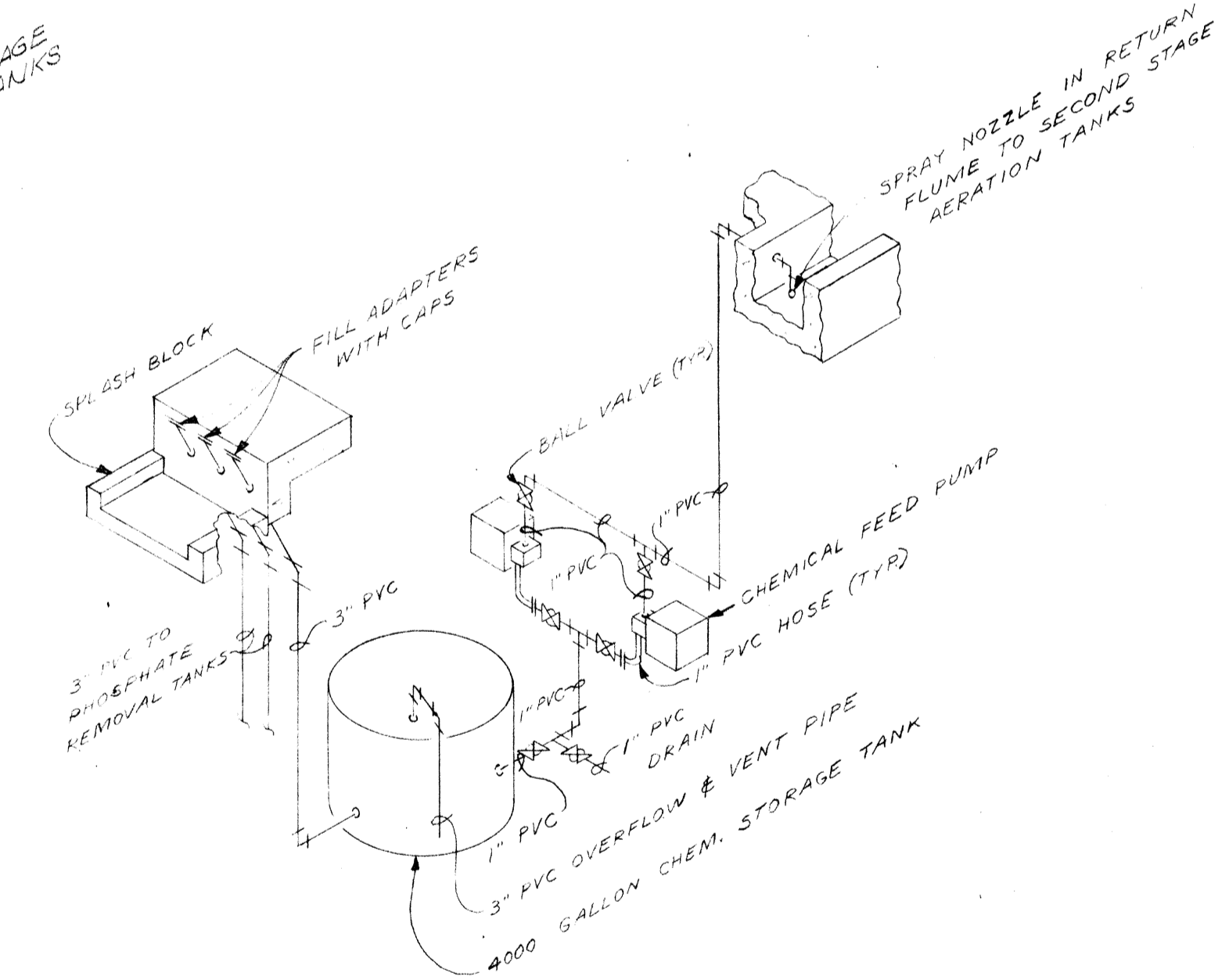
FEED PIPING FOR PHOSPHATE REMOVAL



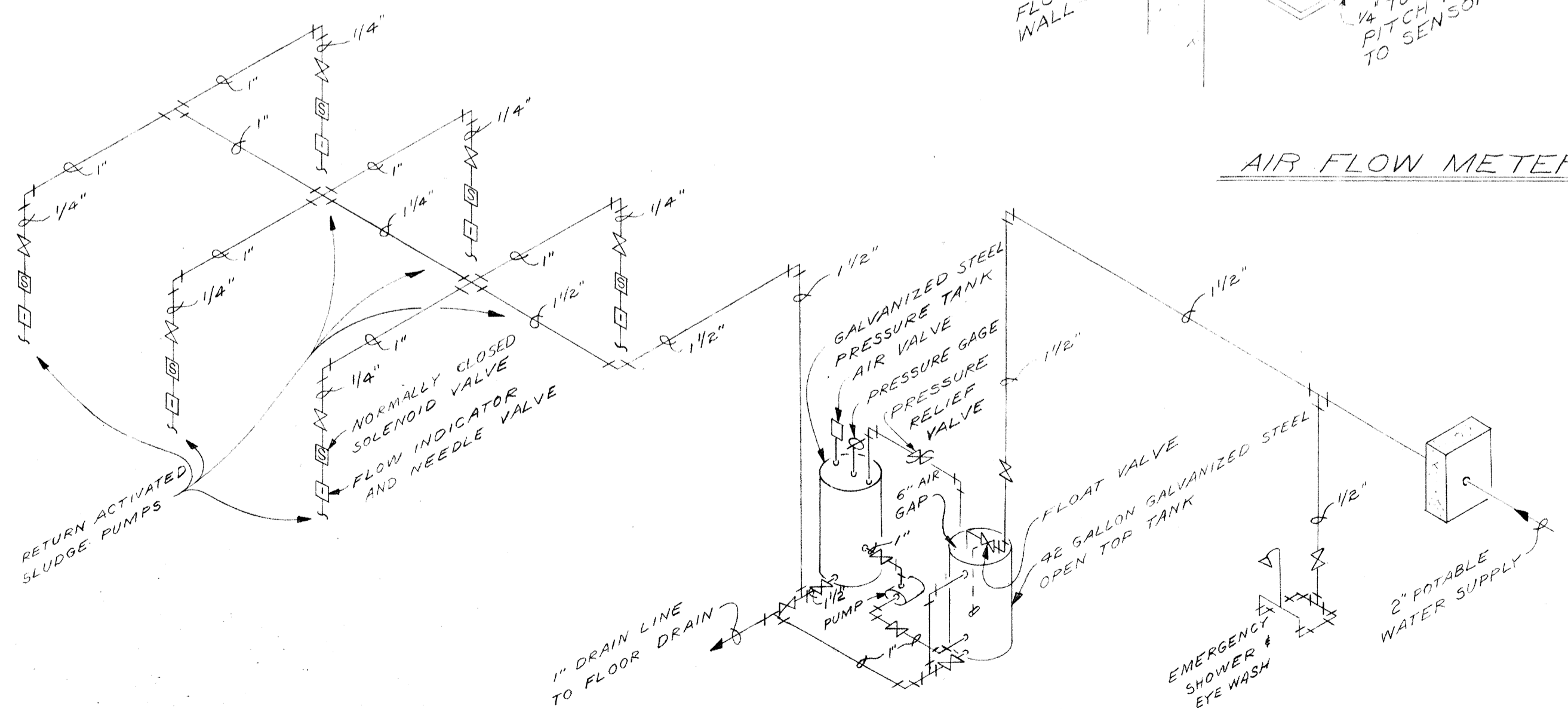
AIR FLOW METER PIPING



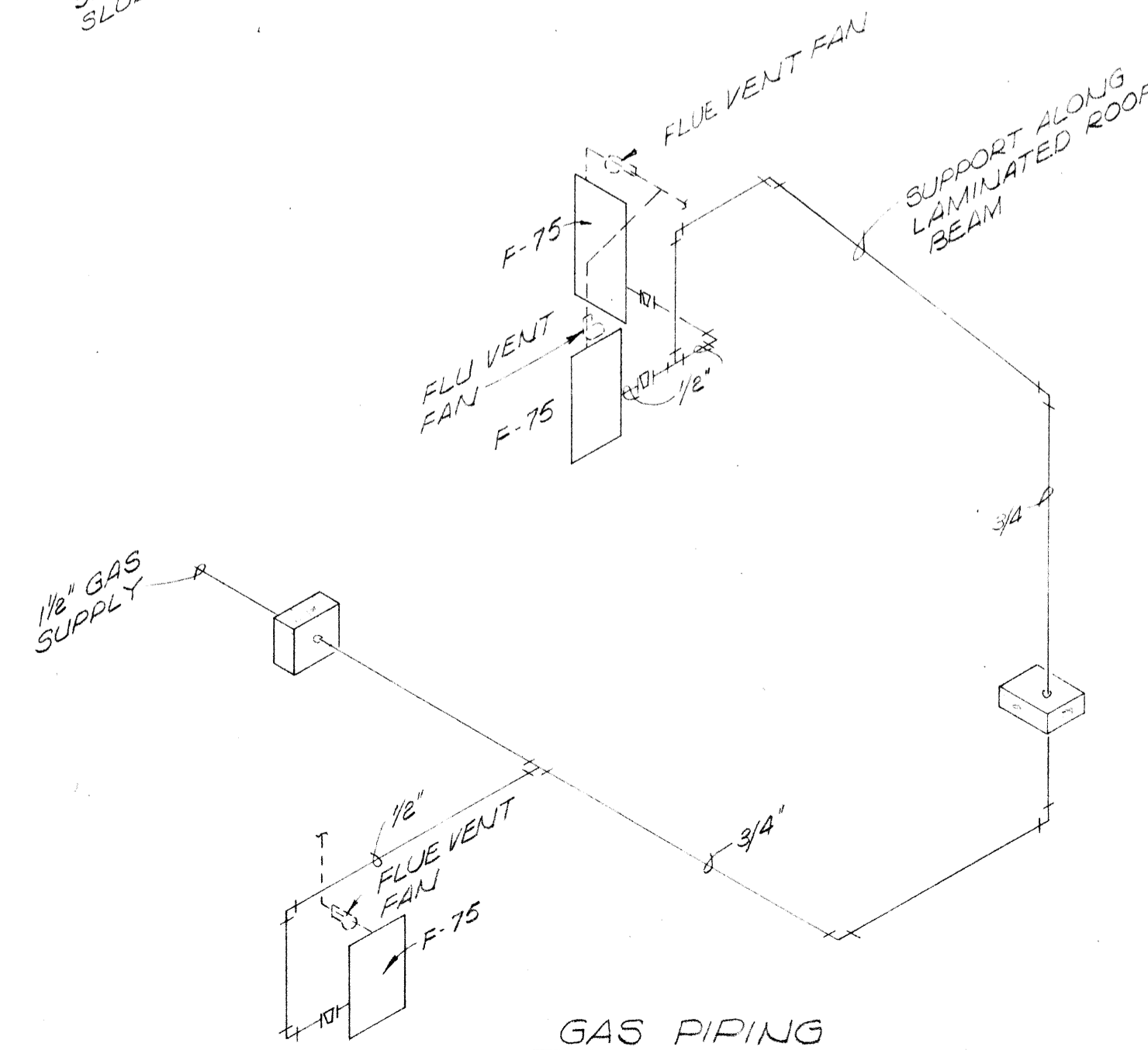
pH SAMPLING



FEED PIPING FOR pH CONTROL



POTABLE WATER PIPING FOR WATER SEAL EQUIPMENT



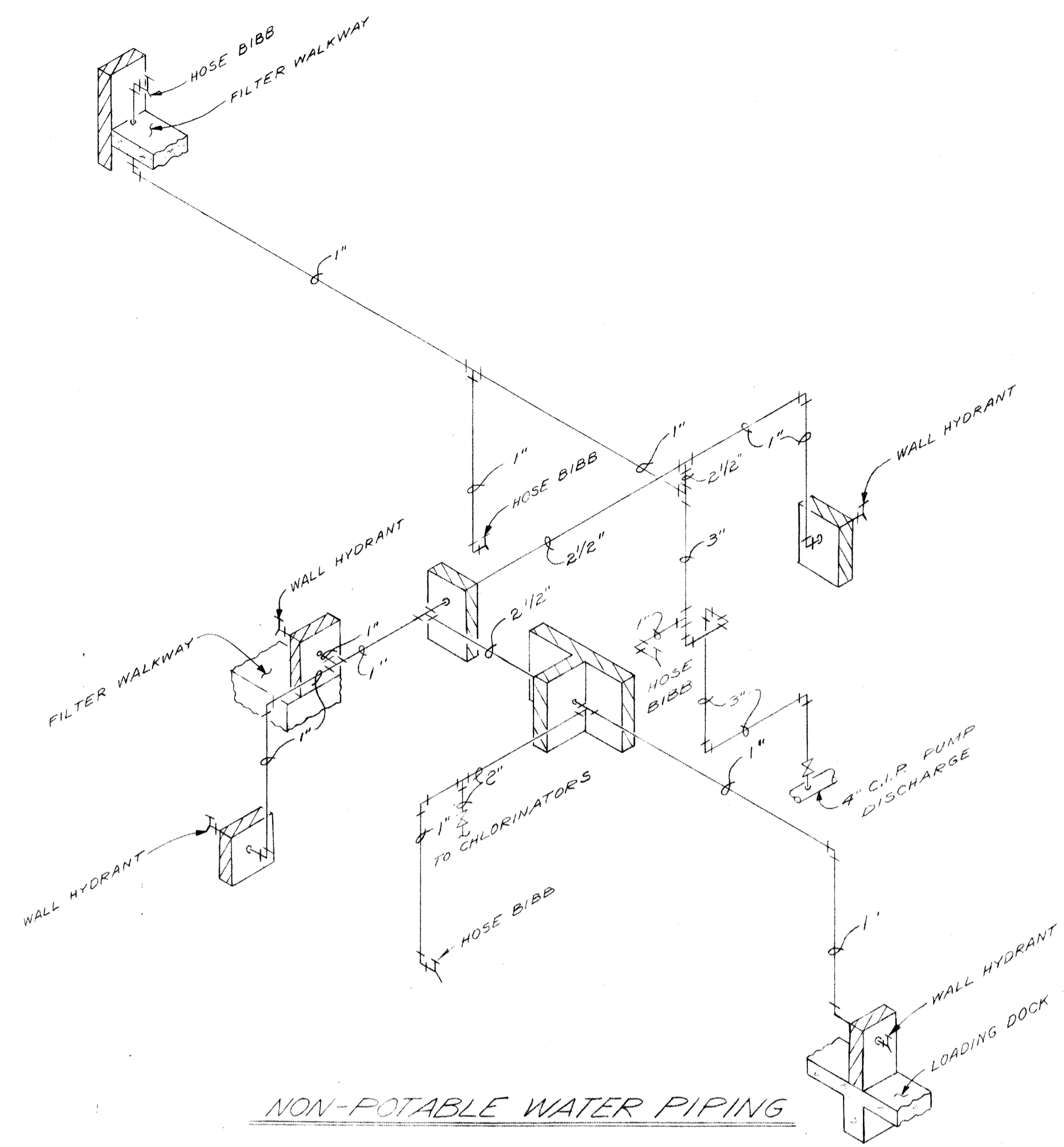
GAS PIPING

NOTE:
FOR UNIT HEATER VENT
STACK LOCATIONS
SEE SH. #63

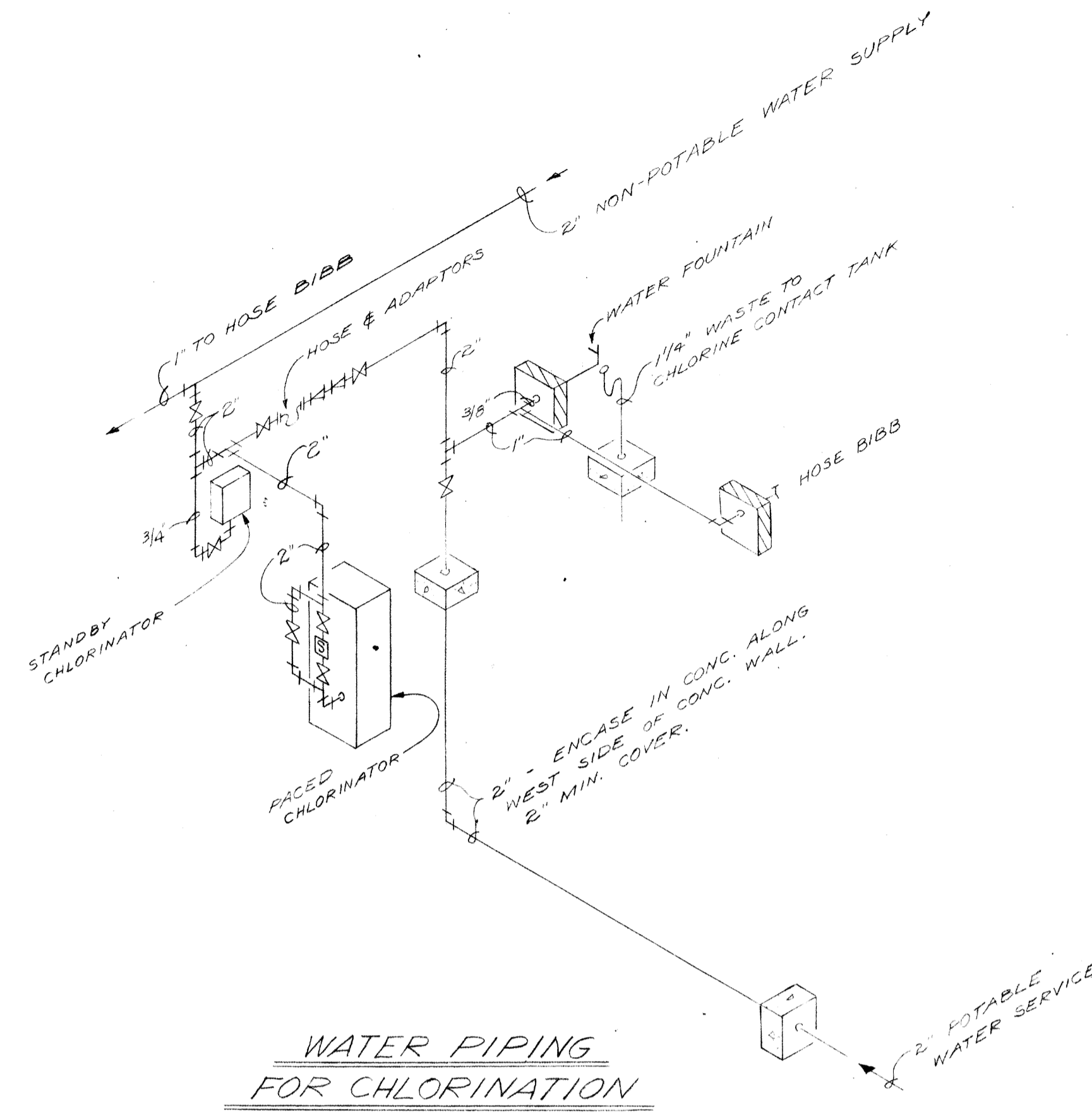
BURGESS & NIPLE, LIMITED CONSULTING ENGINEERS
COLUMBUS, OHIO

DELAWARE COUNTY, OHIO
OLENTANGY ENVIRONMENTAL CONTROL CENTER
BLOWER BUILDING
SCHEMATICS

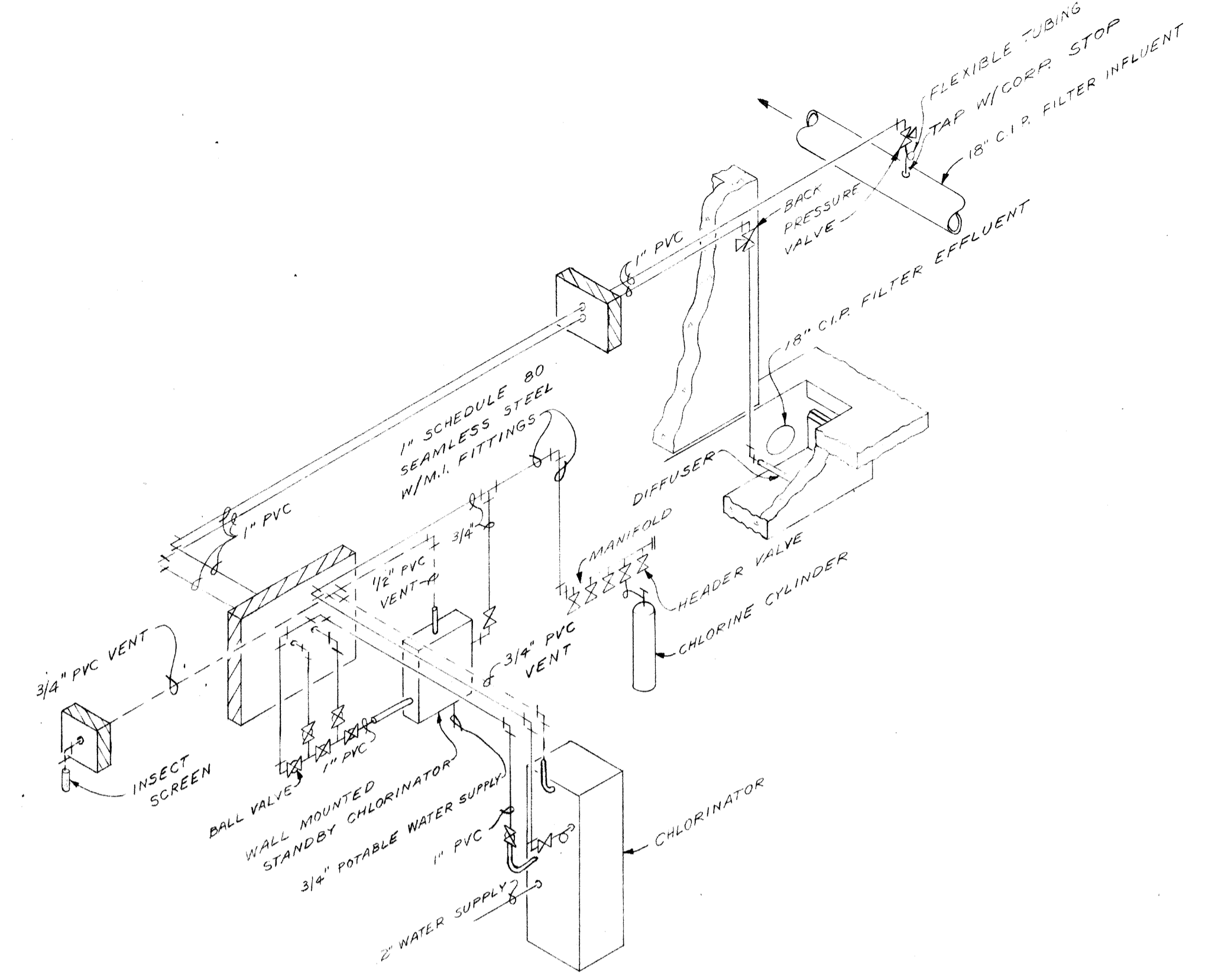
REVISIONS	DRAWN BY R.C.O.	CHECKED BY
APRIL, 1975	TRACED BY G.M.D.	APPROVED BY
JUNE, 1973	SCALE: NONE	SHEET 65 OF 75



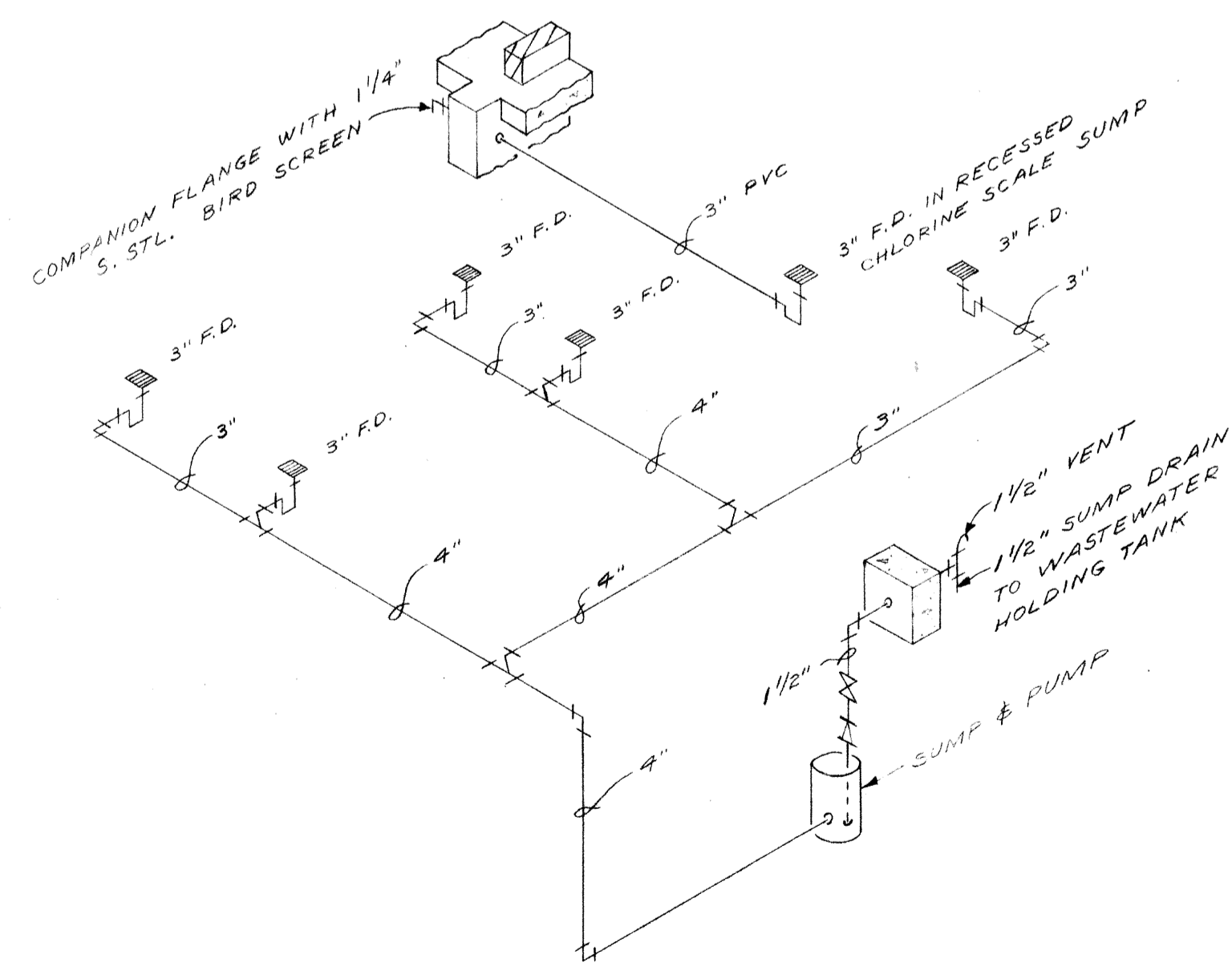
NON-POTABLE WATER PIPING



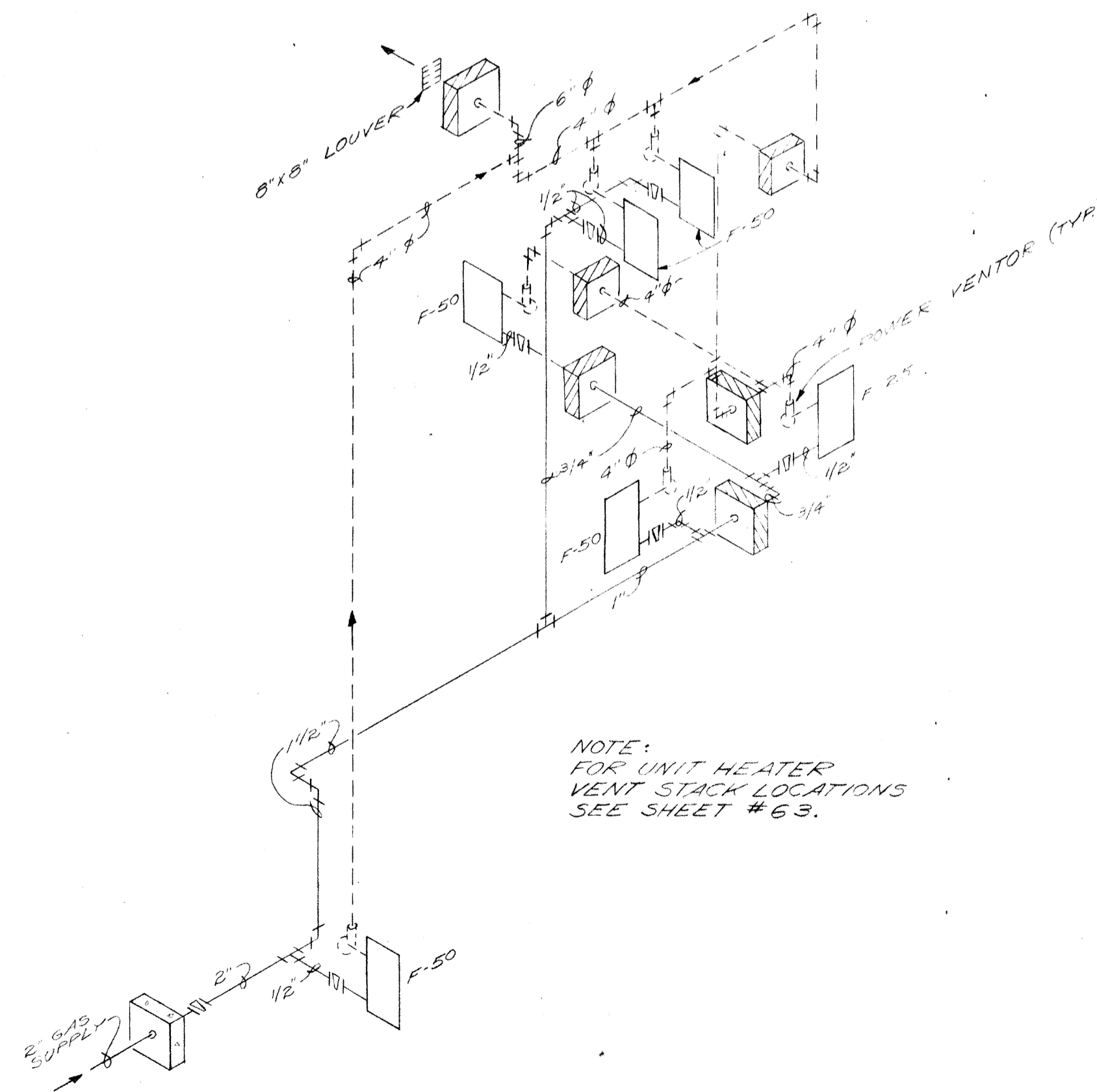
WATER PIPING FOR CHLORINATION



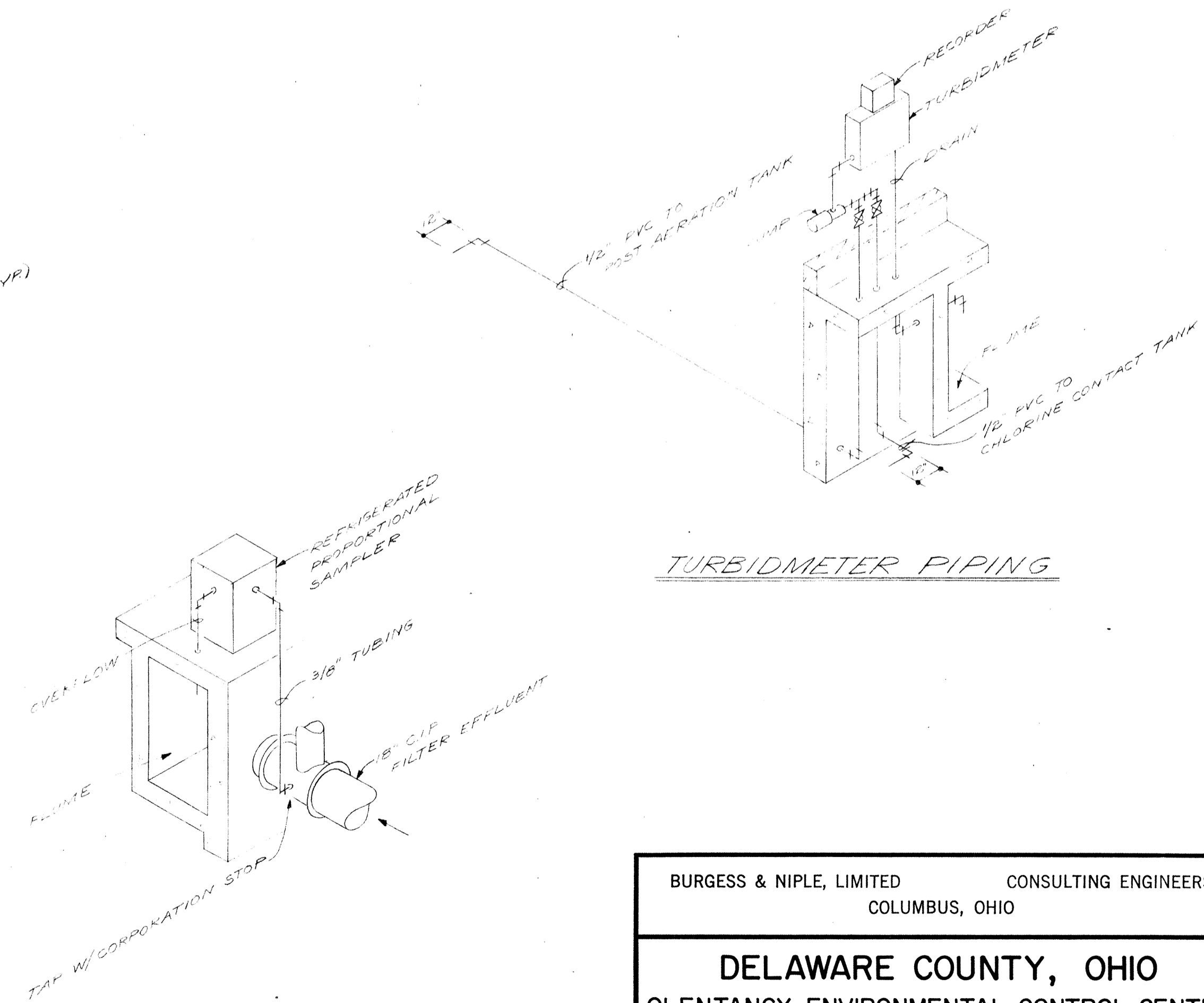
CHLORINE FEED PIPING



FLUSHING WATER DRAIN PIPING



GAS PIPING



FILTER EFFLUENT SAMPLER PIPING

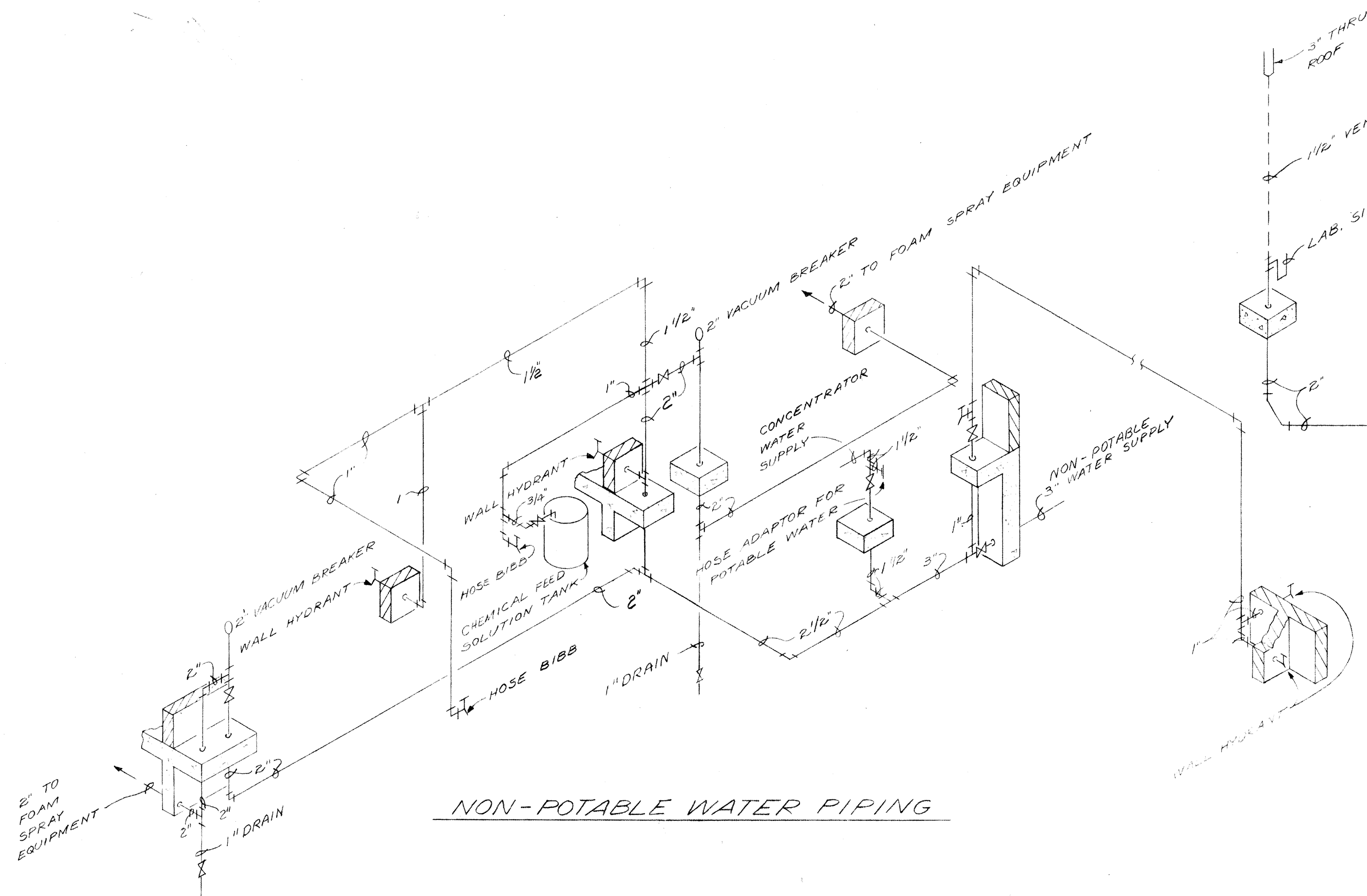
TURBIDIMETER PIPING

BURGESS & NIPLE, LIMITED CONSULTING ENGINEERS
COLUMBUS, OHIO

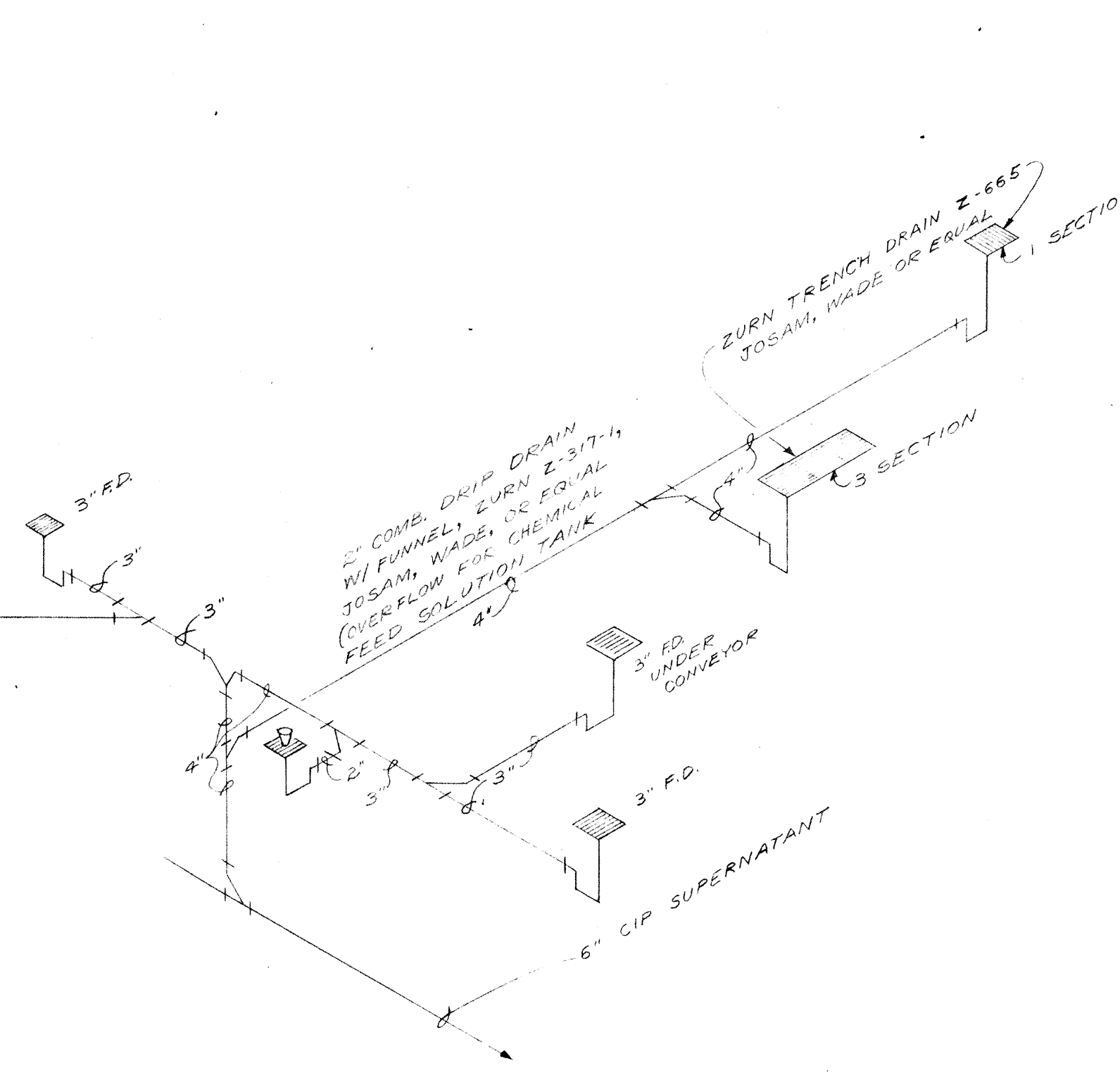
DELAWARE COUNTY, OHIO
OLENTANGY ENVIRONMENTAL CONTROL CENTER

TERTIARY BUILDING SCHEMATICS

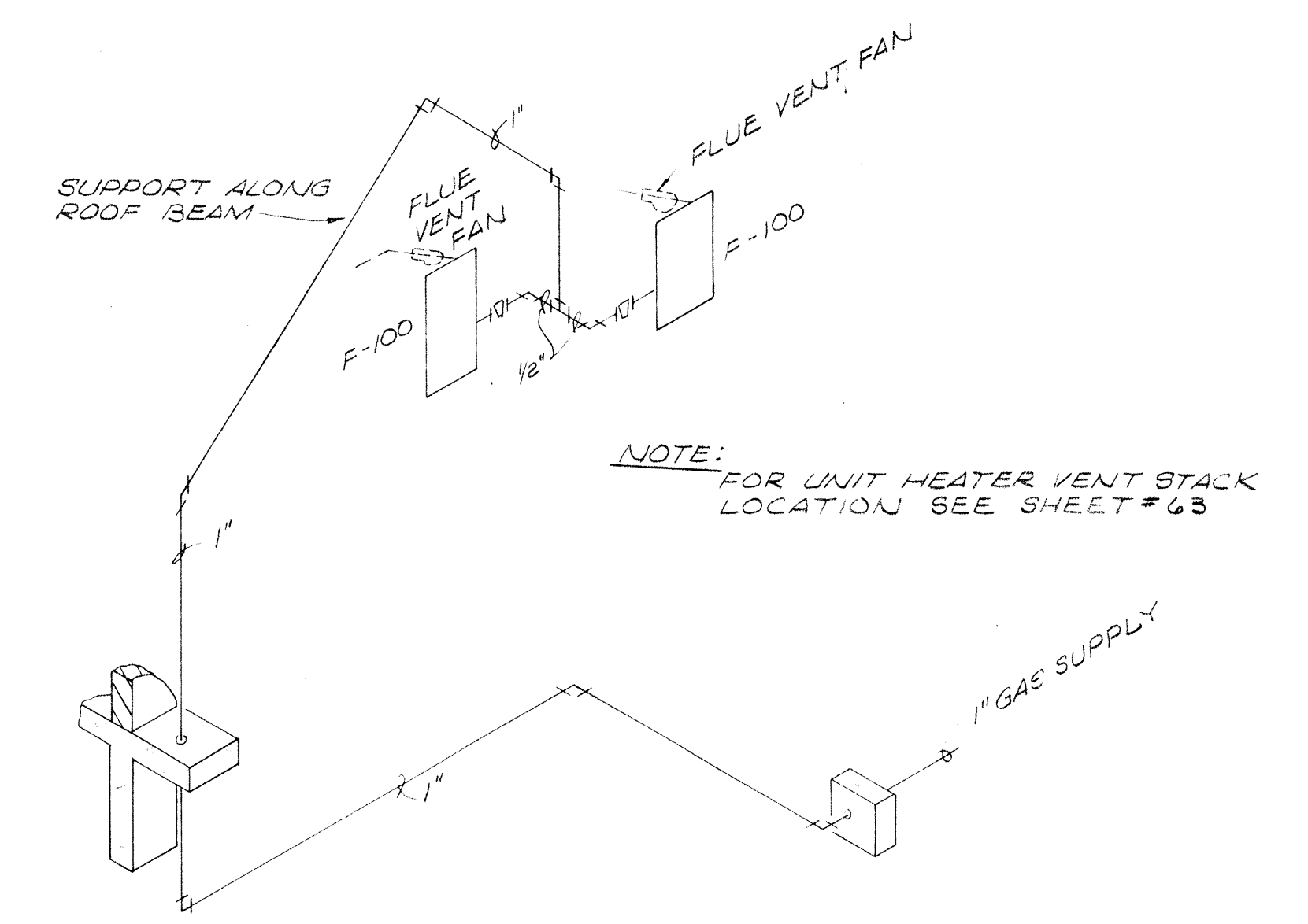
REVISIONS	DRAWN BY R.G.O.	CHECKED BY
APRIL, 1975	TRACED BY G.M.D.	APPROVED BY
JUNE, 1973	SCALE: NONE	SHEET 66 OF 75



NON-POTABLE WATER PIPING

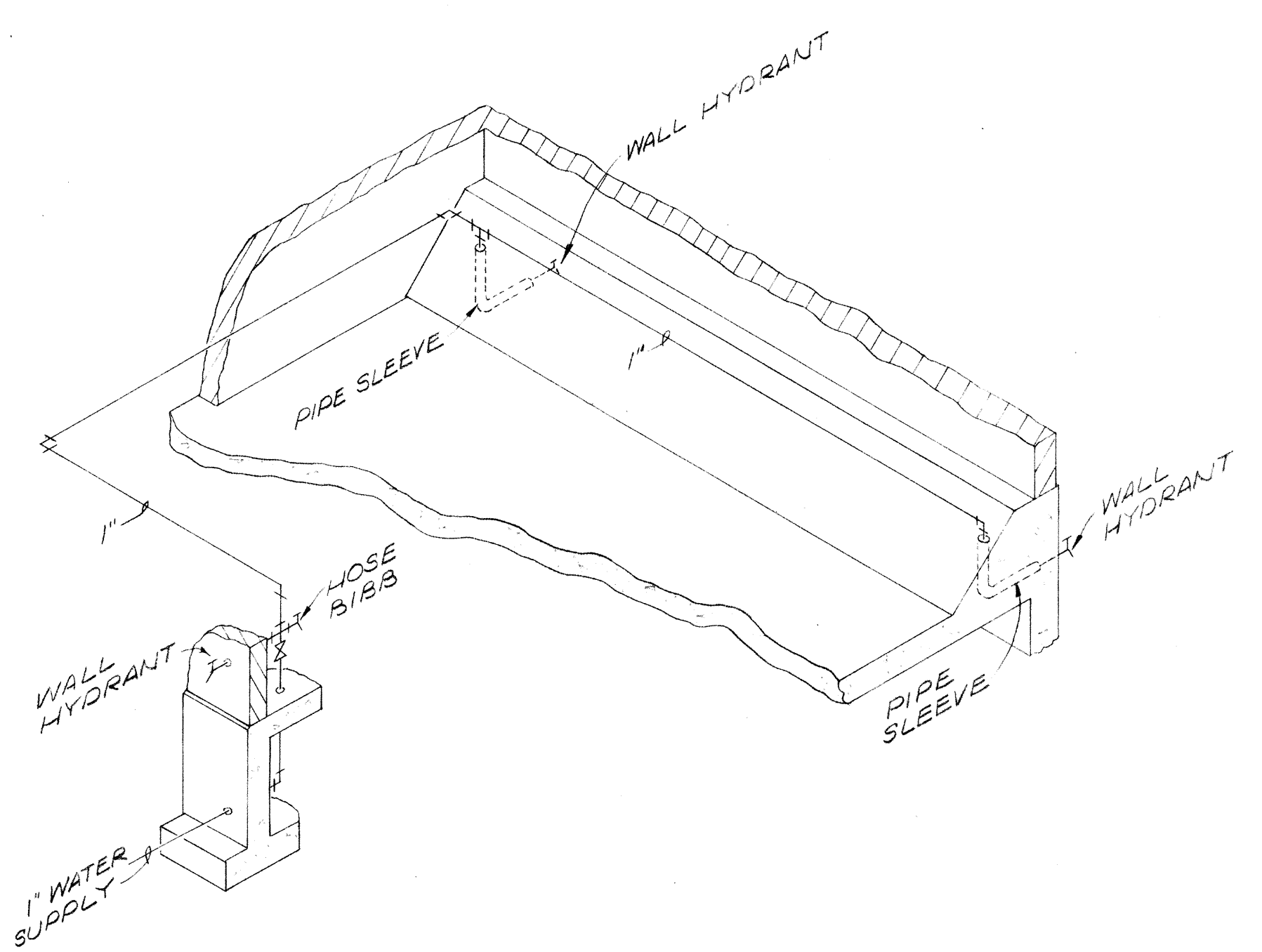


FLUSHING WATER DRAIN PIPING



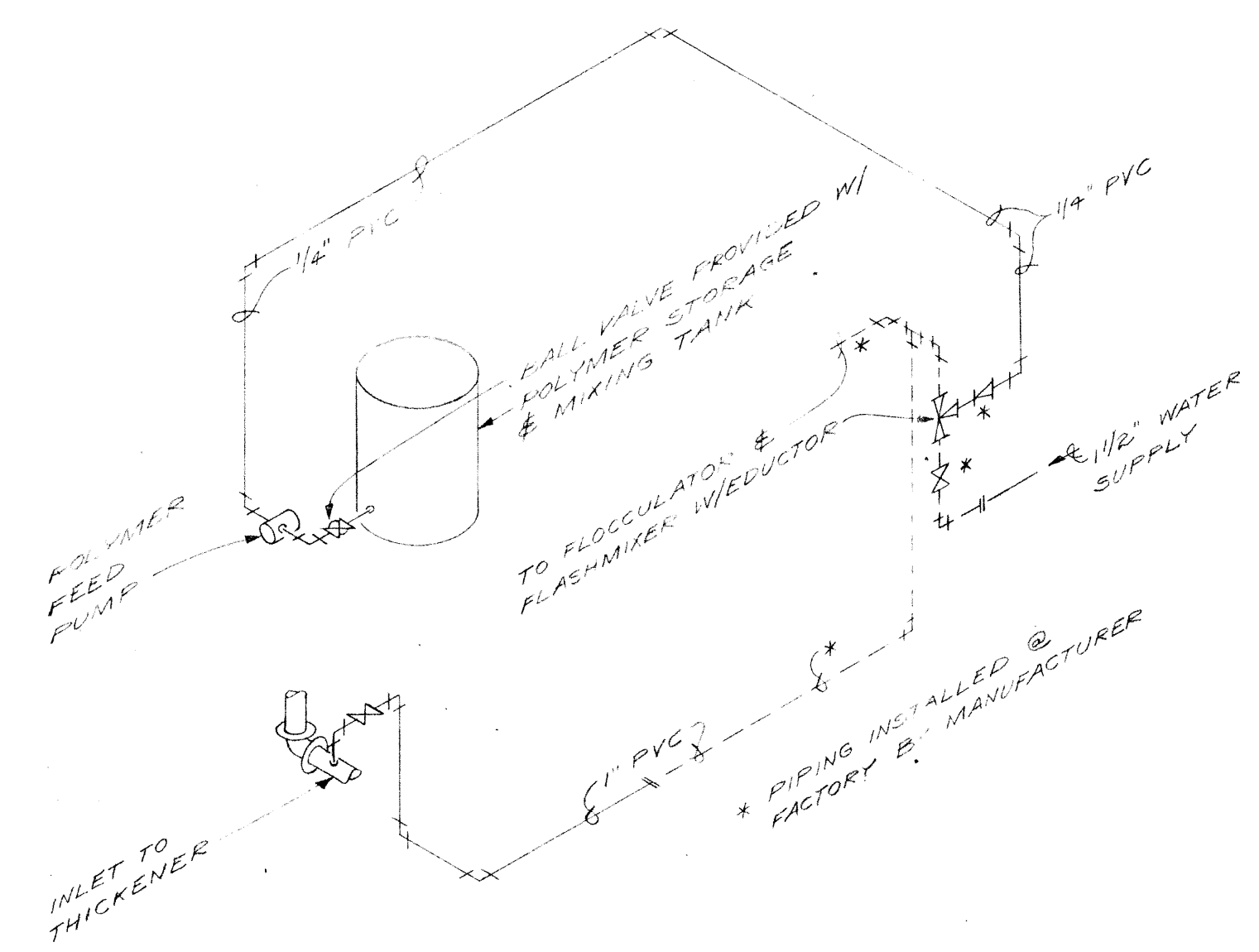
GAS PIPING

CONCENTRATOR BUILDING

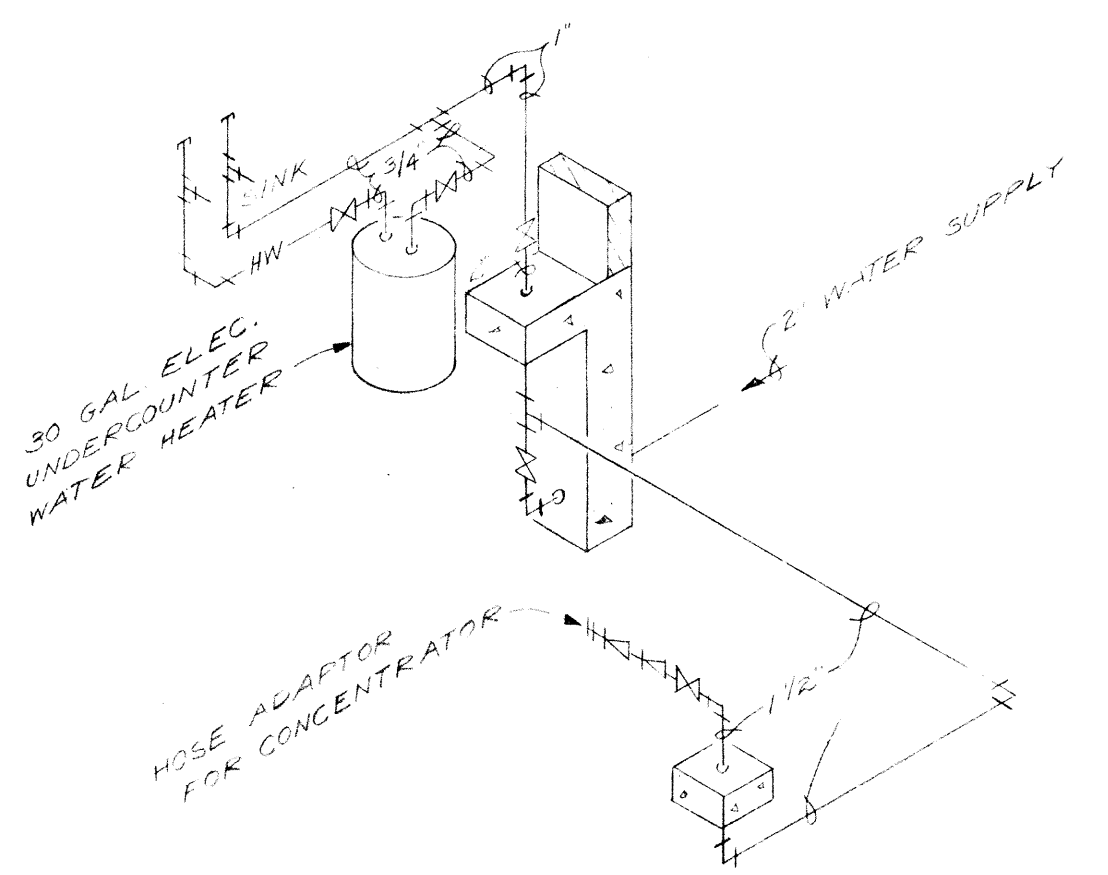


NON-POTABLE WATER PIPING

SCREW PUMP LIFT STATION



POLYMER FEED PIPING

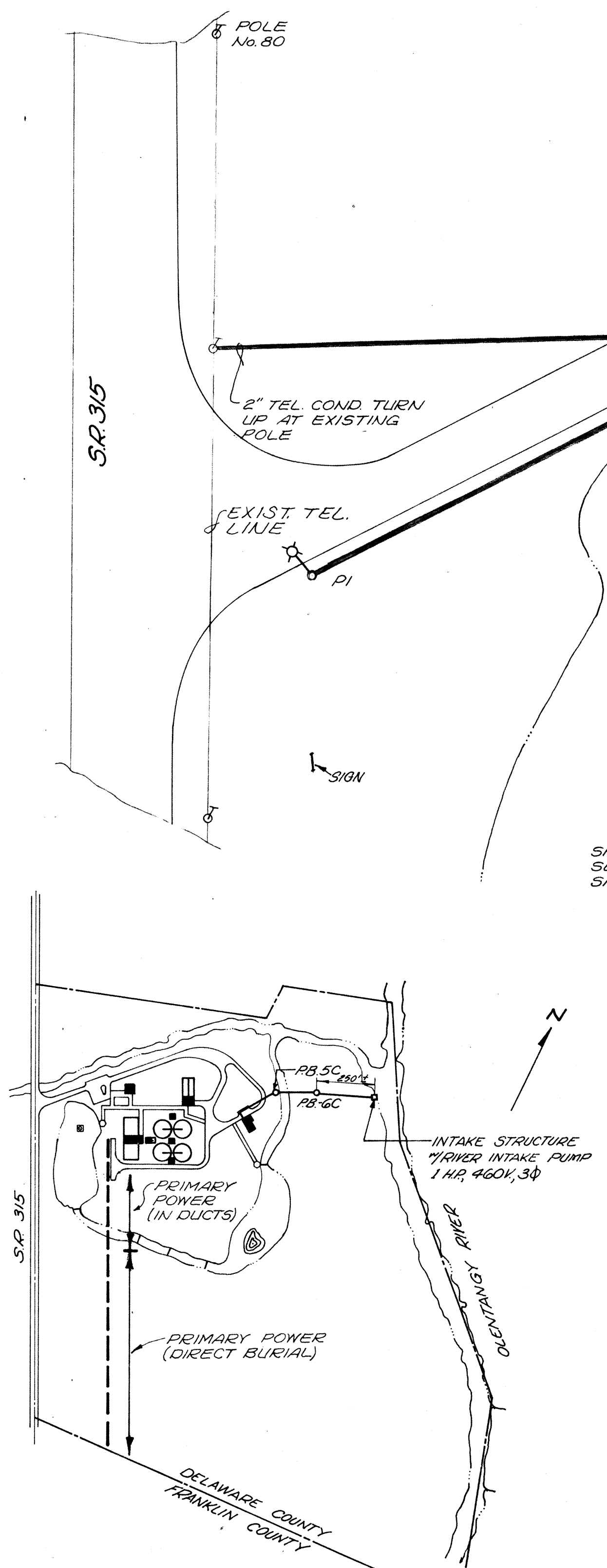


POTABLE WATER PIPING

BURGESS & NIPLE, LIMITED CONSULTING ENGINEERS
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**DELAWARE COUNTY, OHIO
OLENTANGY ENVIRONMENTAL CONTROL CENTER
CONCENTRATOR BUILDING &
SCREW PUMP LIFT STATION
SCHEMATICS**

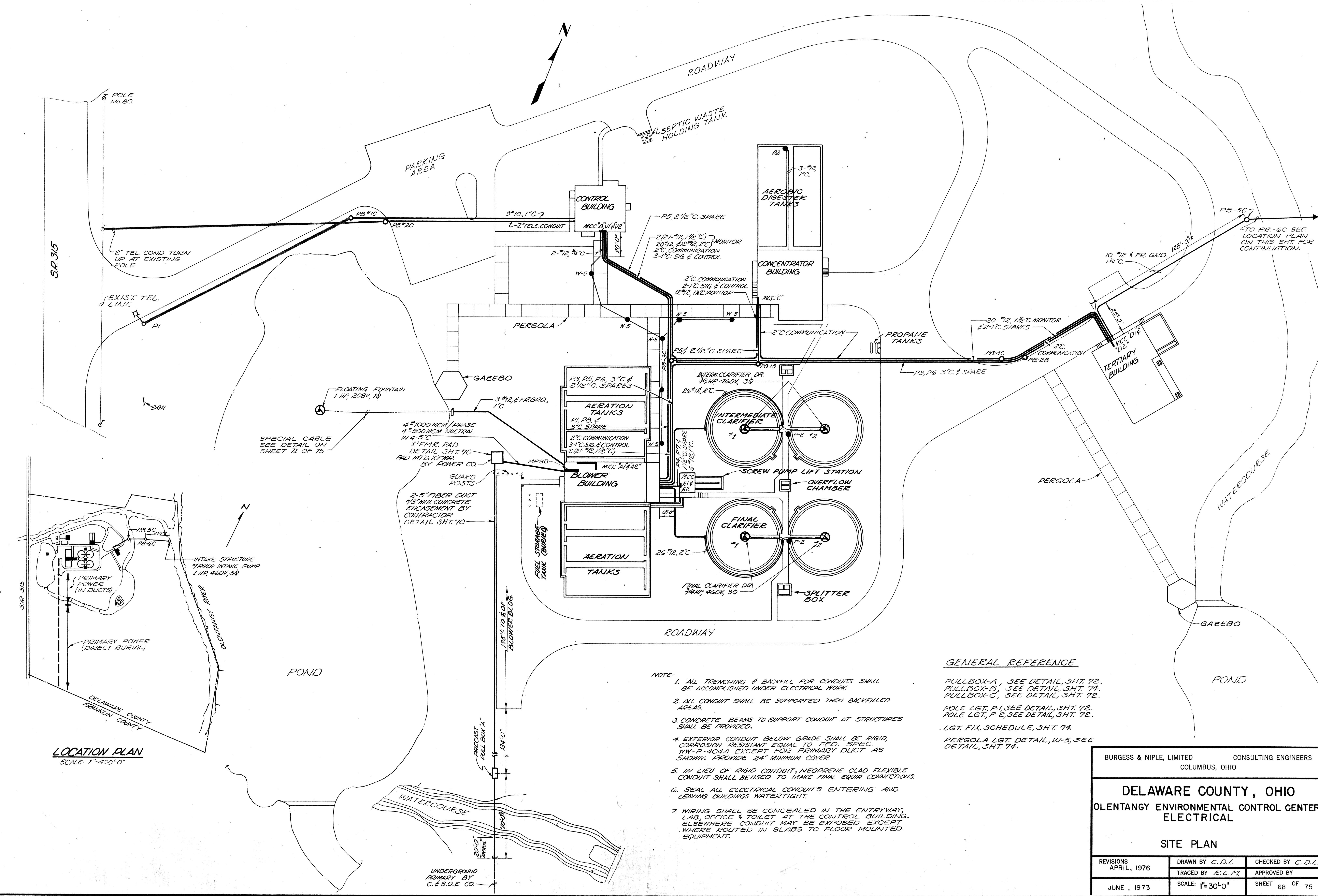
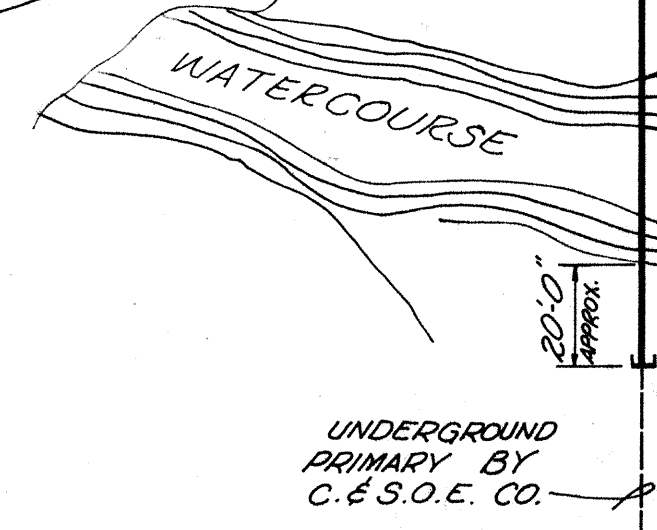
REVISIONS	DRAWN BY R.S.O.	CHECKED BY
APRIL, 1975	TRACED BY G.M.D.	APPROVED BY
JUNE, 1973	SCALE: NONE	SHEET 67 OF 75



LOCATION PLAN
SCALE: 1"=400'-0"

POND

POND



- NOTE:
1. ALL TRENCHING & BACKFILL FOR CONDUITS SHALL BE ACCOMPLISHED UNDER ELECTRICAL WORK.
 2. ALL CONDUIT SHALL BE SUPPORTED THRU BACKFILLED AREAS.
 3. CONCRETE BEAMS TO SUPPORT CONDUIT AT STRUCTURES SHALL BE PROVIDED.
 4. EXTERIOR CONDUIT BELOW GRADE SHALL BE RIGID, CORROSION RESISTANT EQUAL TO FED. SPEC. WW-P-404A EXCEPT FOR PRIMARY DUCT AS SHOWN. PROVIDE 24" MINIMUM COVER.
 5. IN LIEU OF RIGID CONDUIT, NEOPRENE CLAD FLEXIBLE CONDUIT SHALL BE USED TO MAKE FINAL EQUIP CONNECTIONS.
 6. SEAL ALL ELECTRICAL CONDUITS ENTERING AND LEAVING BUILDINGS WATERTIGHT.
 7. WIRING SHALL BE CONCEALED IN THE ENTRYWAY, LAB, OFFICE & TOILET AT THE CONTROL BUILDING. ELSEWHERE CONDUIT MAY BE EXPOSED EXCEPT WHERE ROUTED IN SLABS TO FLOOR MOUNTED EQUIPMENT.

GENERAL REFERENCE

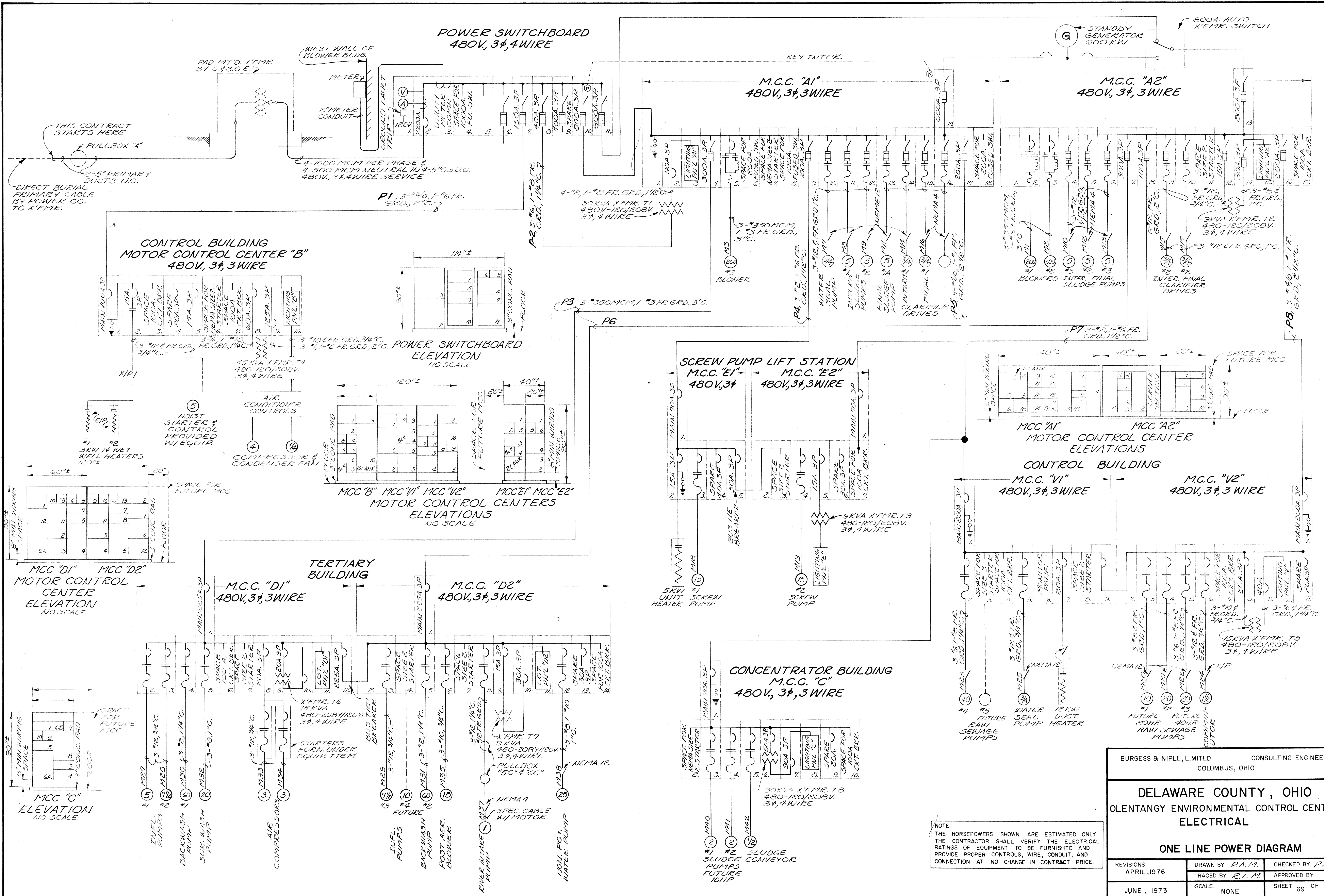
- PULLBOX-A, SEE DETAIL, SHT. 72.
- PULLBOX-B, SEE DETAIL, SHT. 74.
- PULLBOX-C, SEE DETAIL, SHT. 72.
- POLE LGT. P-1, SEE DETAIL, SHT. 72.
- POLE LGT. P-2, SEE DETAIL, SHT. 72.
- LG. FIX. SCHEDULE, SHT. 74.
- PERGOLA LGT. DETAIL, W-5, SEE DETAIL, SHT. 74.

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ELECTRICAL

SITE PLAN

REVISIONS APRIL, 1976	DRAWN BY C.D.L.	CHECKED BY C.D.L.
	TRACED BY E.L.M.	APPROVED BY
JUNE, 1973	SCALE: 1"=30'-0"	SHEET 68 OF 75



NOTE:
 THE HORSEPOWERS SHALL BE ESTIMATED ONLY.
 THE CONTRACTOR SHALL VERIFY THE ELECTRICAL
 RATINGS OF EQUIPMENT TO BE FURNISHED AND
 PROVIDE PROPER CONTROLS, WIRE, CONDUIT, AND
 CONNECTION AT NO CHANGE IN CONTRACT PRICE.

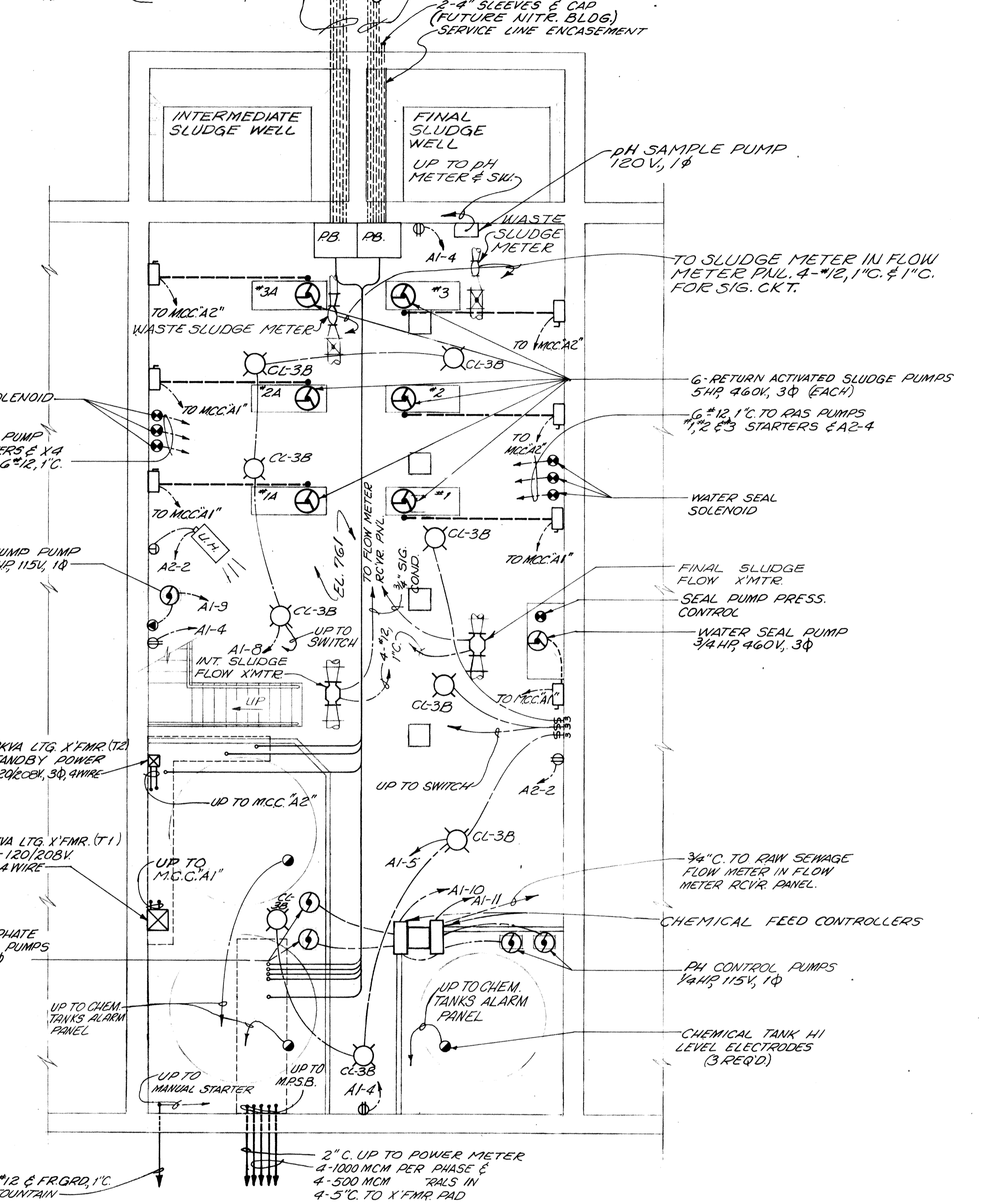
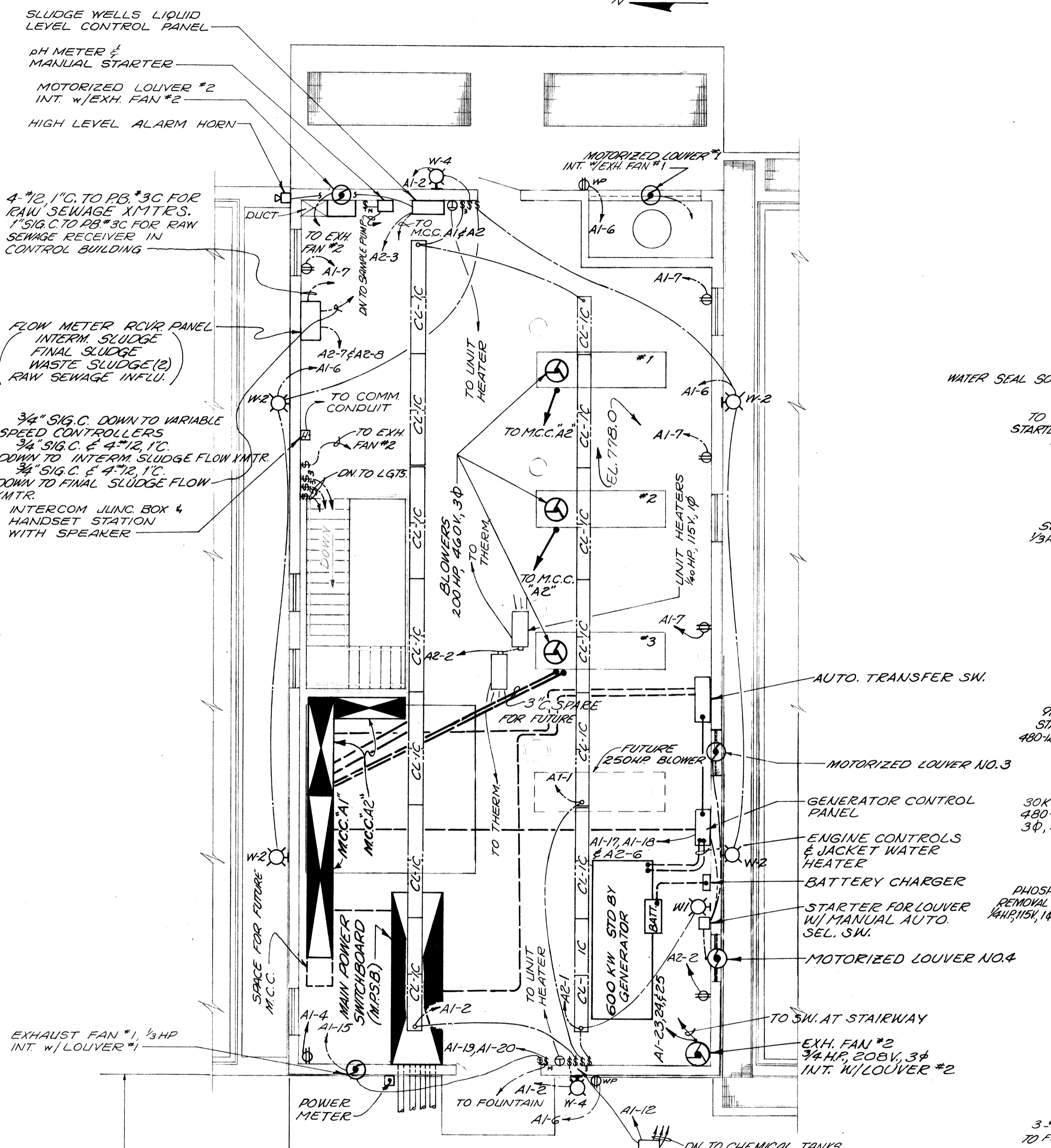
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ELECTRICAL

ONE LINE POWER DIAGRAM

REVISIONS APRIL, 1976	DRAWN BY P.A.M.	CHECKED BY P.A.M.
JUNE, 1973	TRACED BY R.L.M.	APPROVED BY
	SCALE: NONE	SHEET 69 OF 75

TO CONTROL BUILDING } P1, P2 & 3" C. SPARE
 TO PB #3C } 2" COMMUNICATION CONDUIT.
 2(21-#12, 1 1/2" C.) FOR MONITOR PANEL
 TO PB #18 } 2-4" SLEEVES & CAP (FUTURE INT. BLDG) SERVICE LINE ENCASUREMENT
 P3, P6 FOR TERT. BLDG. 3" C. SPARE FOR TERT. BLDG. P5 FOR CONTROL BUILDING, F. CONG. BLDG. 2-1/2" C. SPARE FOR CONTROL BLDG. & TERT. BLDG.
 P4, P7 26-#12, 2" C. FOR INT. CLAR. 26-#12, 2" C. FOR FIN. CLAR. 6-#12, 1" C. MONITOR 1 1/2" C. SPARE



BLOWER BUILDING LIGHTING PANEL SCHEDULE "A1"

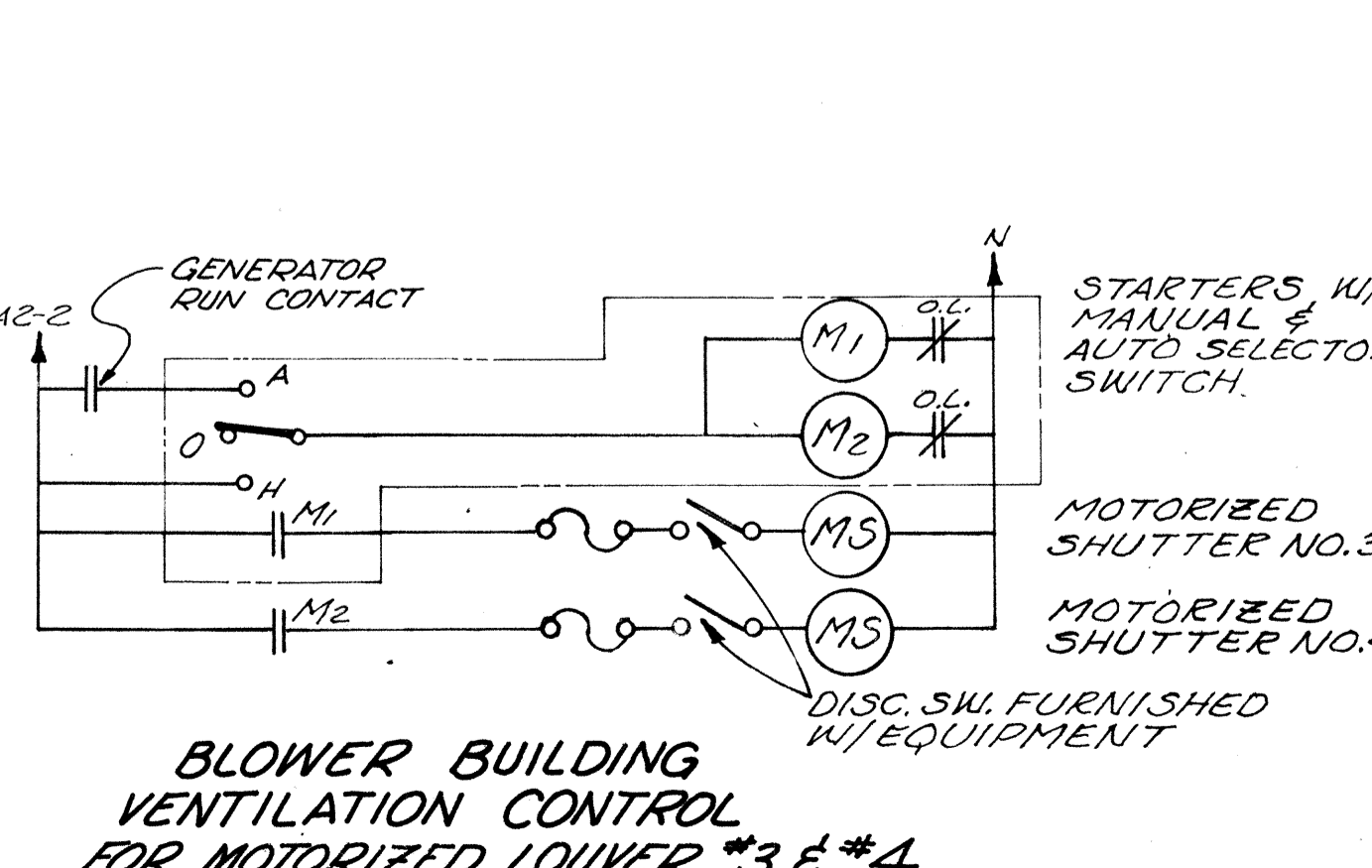
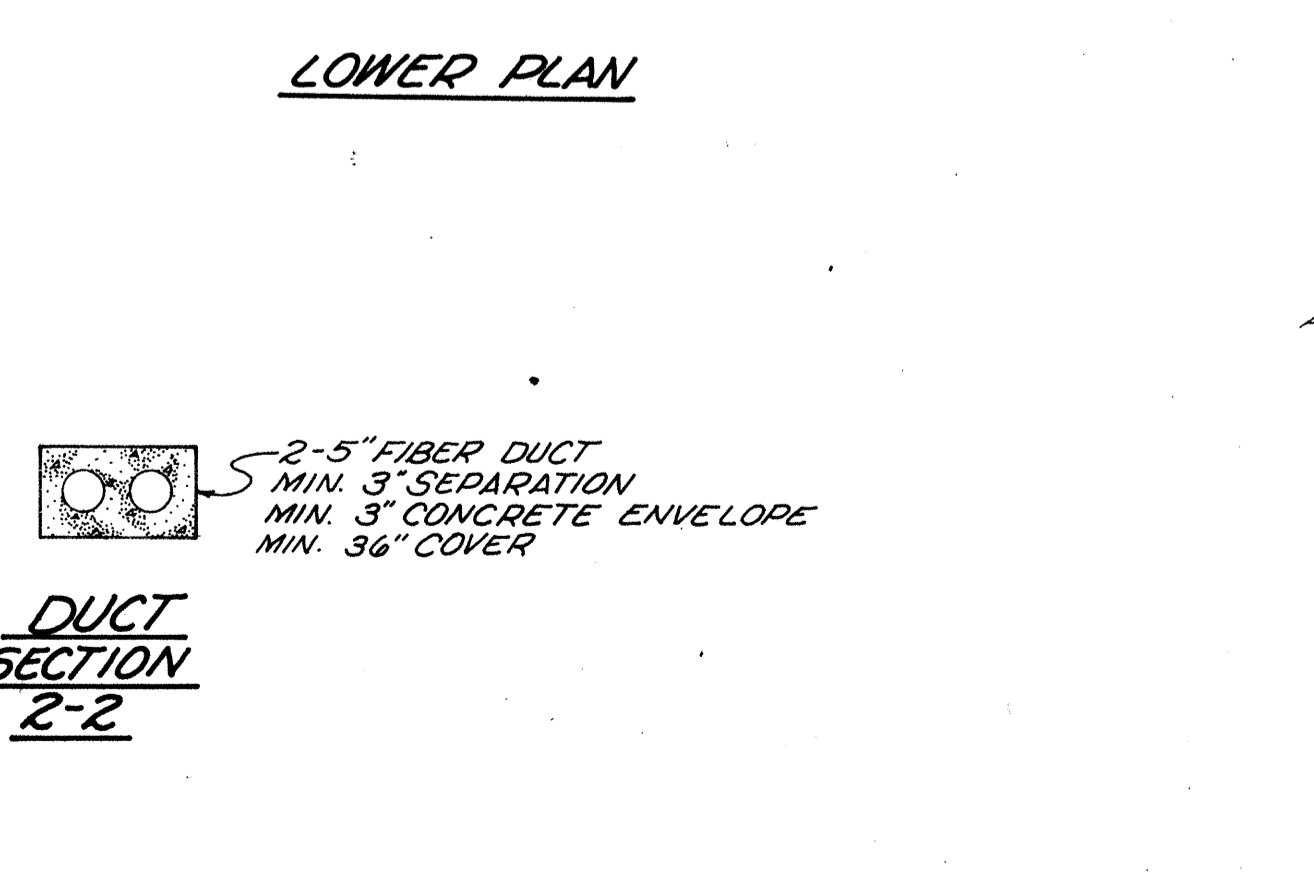
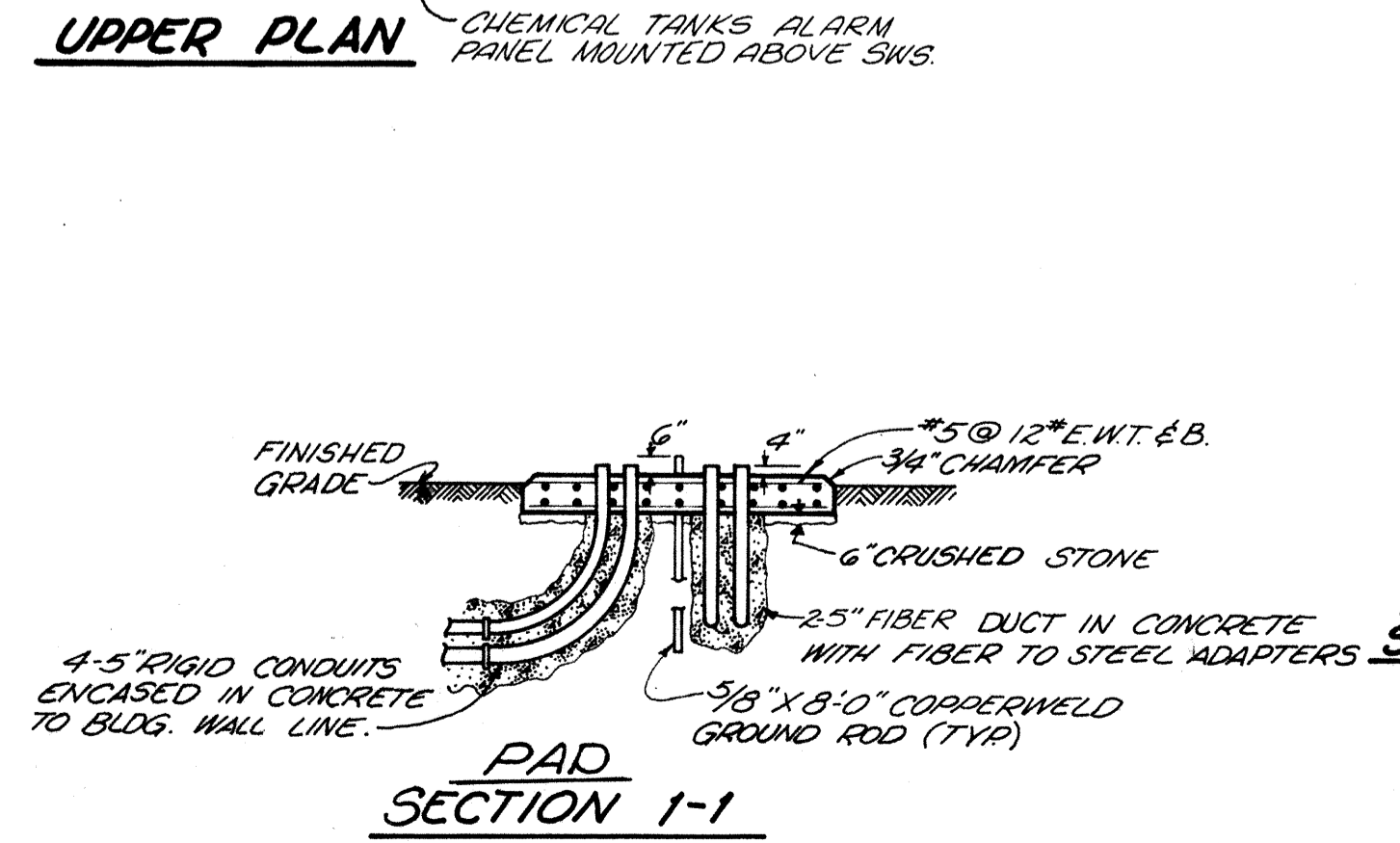
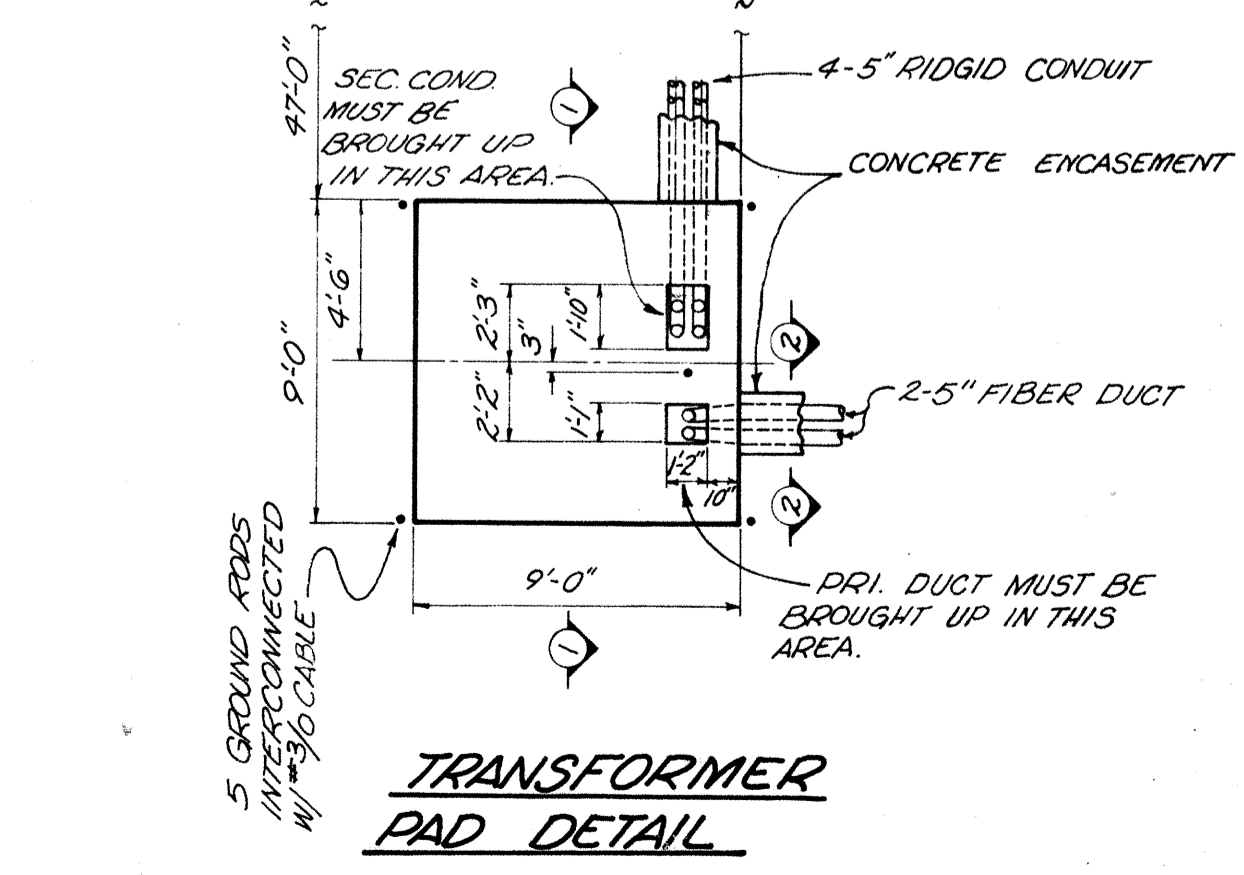
CKT	DESCRIPTION	AMPS	POLES	LOAD
1	LIGHTS - BLOWER	20	1	1300
2	LIGHTS - M.C.C. & ENTRANCE	20	1	1400
3	SPARE	20	1	---
4	RECEPTACLES	20	1	600
5	LIGHTS - CHEM. FEEDERS	20	1	900
6	LIGHTS - & RECEPT. - EXTERIOR	20	1	1200
7	RECEPT. UPPER LEVEL & NORMAL BUS IND. LIGHT	20	1	600
8	LIGHTS (LOWER LEVEL) EAST	20	1	1800
9	SUMP PUMP	20	1	870
10	PHOSPHATE REMOVAL PUMPS	20	1	1000
11	PH CONTROL PUMPS	20	1	1000
12	CHEMICAL TANKS ALARM PANEL	20	1	500
13&14	CLARIFIER LIGHTS	15	2	500
15	EXHAUST FAN #1	20	1	900
16	SPARE	20	1	---
17&18	ENGINE WATER JACKET HEATER	20	2	3000
19&20	FOUNTAIN UNIT	15	2	1700
21	SPARE	20	1	---
22	SPARE	20	1	---
23-25	EXHAUST FAN #2	15	3	1100
26-30	SPACE			

* PROVIDE GRD. FAULT/CKT. PROTECTION ON THESE CKTS

BLOWER BUILDING STANDBY POWER LIGHTING PANEL SCHEDULE "A2" STANDBY PWR.

CKT	DESCRIPTION	AMPS	POLES	LOAD
1	LIGHTS (GEN. & MIDDLE LOW LEVEL)	20	1	700
2	MOTORIZED LOUVER, RECEPT. & UNIT HTRS	15	1	900
3	SLUDGE WELLS LIQUID LEVEL CONTROLS	20	1	2000
4	WATER SEAL SOLENOID	20	1	600
5	CLARIFIER ALARM	20	1	---
6	BATTERY CHARGER & ST BY BUS	20	1	300
7,8	FLOW METER PANEL	20	2	3105
9	pH SAMPLE PUMP	15	1	300
10-12	SPARE	20	1	---

** PROVIDE AND INSTALL LIGHTING PROTECTORS GENERAL ELECTRIC MODEL 9L15 BC8002 ON ALL 115 VOLT CIRCUIT TO TELEMETERING AND METERING EQUIPMENT.



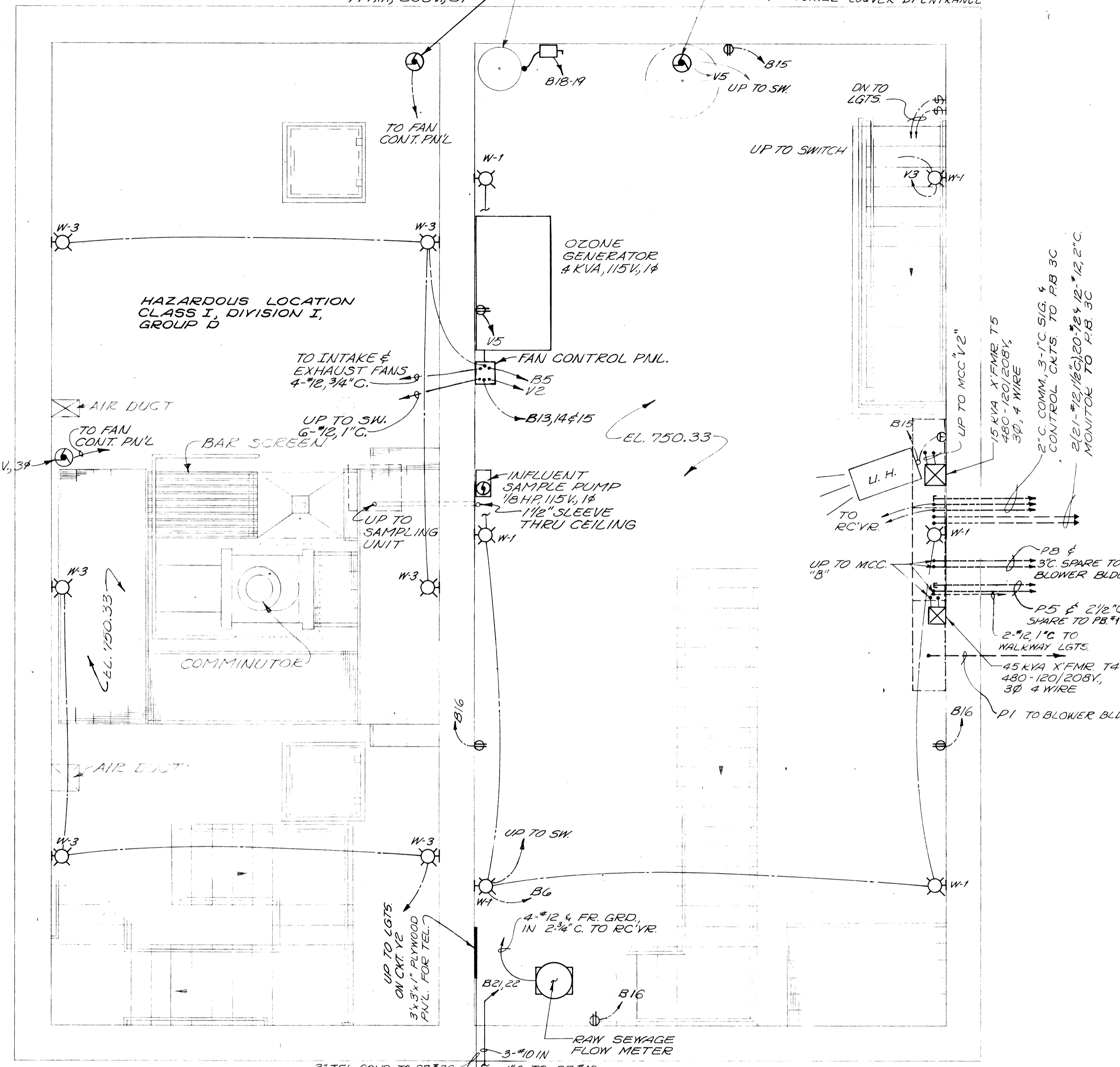
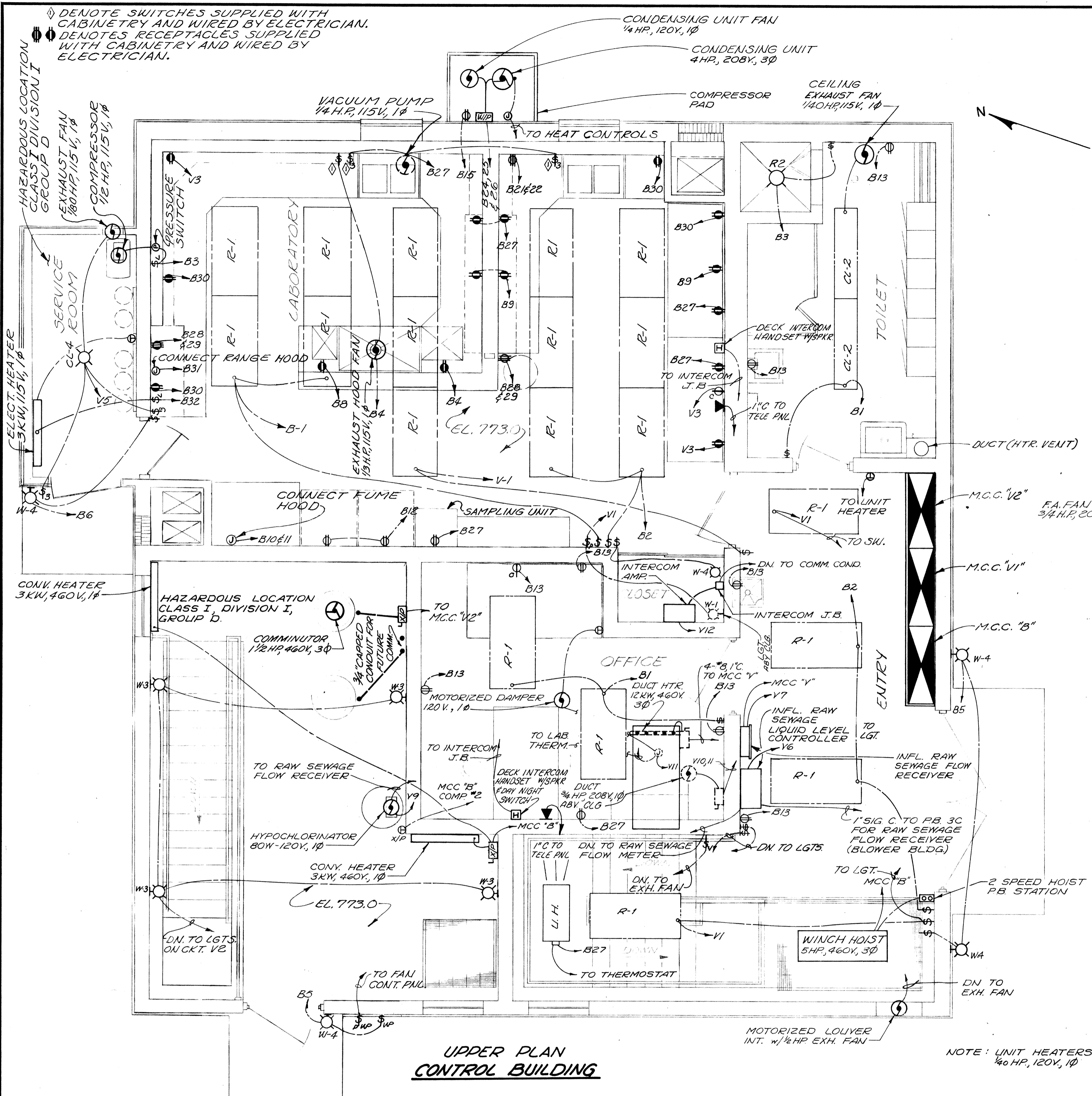
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BLOWER BUILDING

REVISIONS APRIL, 1976	DRAWN BY G.D.L.	CHECKED BY G.D.L.
JUNE, 1973	TRACED BY E.L.M.	APPROVED BY

SCALE: 3/16"=1'-0"
 SHEET 70 OF 75



UPPER PLAN
CONTROL BUILDING

INTERMEDIATE PLAN
CONTROL BUILDING

NOTE: UNIT HEATERS (U.H.)
1/40 HP, 120V, 1Ø

CONTROL BUILDING LIGHTING PANEL SCHEDULE "B"

CKT.	DESCRIPTION	AMPS	POLE	LOAD
1	LIGHTS (LAB-OFFICE & TOILET)	20	1	1600
2	LIGHTS (LAB-SOUTH & HALLWAY)	20	1	1600
3	COMPRESSOR A.A.	20	1	1130
4	RECPT. & BLOWER (EXH. HOOD)	20	1	1000
5	LIGHTS (WETWELL, OUTDOOR & SEE. RM.)	20	1	1700
6	LIGHTS (INTERM. RM & SER. ENT.)	20	1	1200
7	LIGHTS (PUMP ROOM)	20	1	1500
8	RECPT. (ATOMIC ABSORPTION UNIT)	20	1	300
9	RECPT. (LAB.)	20	1	600
10,11	FUME HOOD	30	2	3200
12	RECPT. (ING. & REFRIG.)	20	1	1600
13	RECPT. (OFFICE, HALL & TOILET)	20	1	1400
14	SPARE	20	1	—
15	RECPT. (INTERM. & PUMP RM.) & HTR.	20	1	1000

CONTROL BUILDING LIGHTING PANEL SCHEDULE "B" CONT.

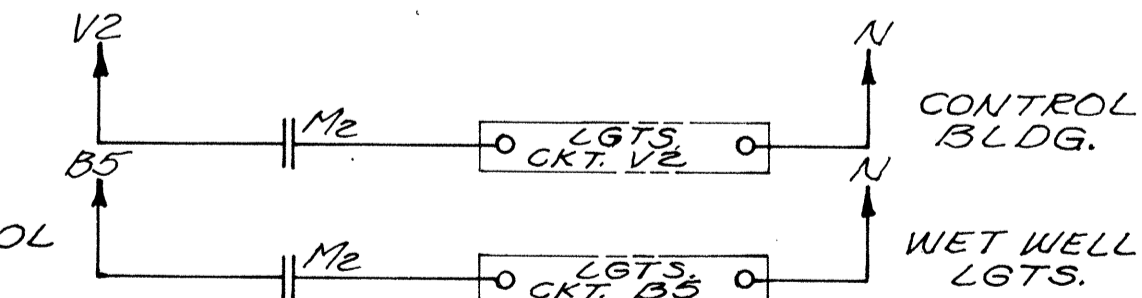
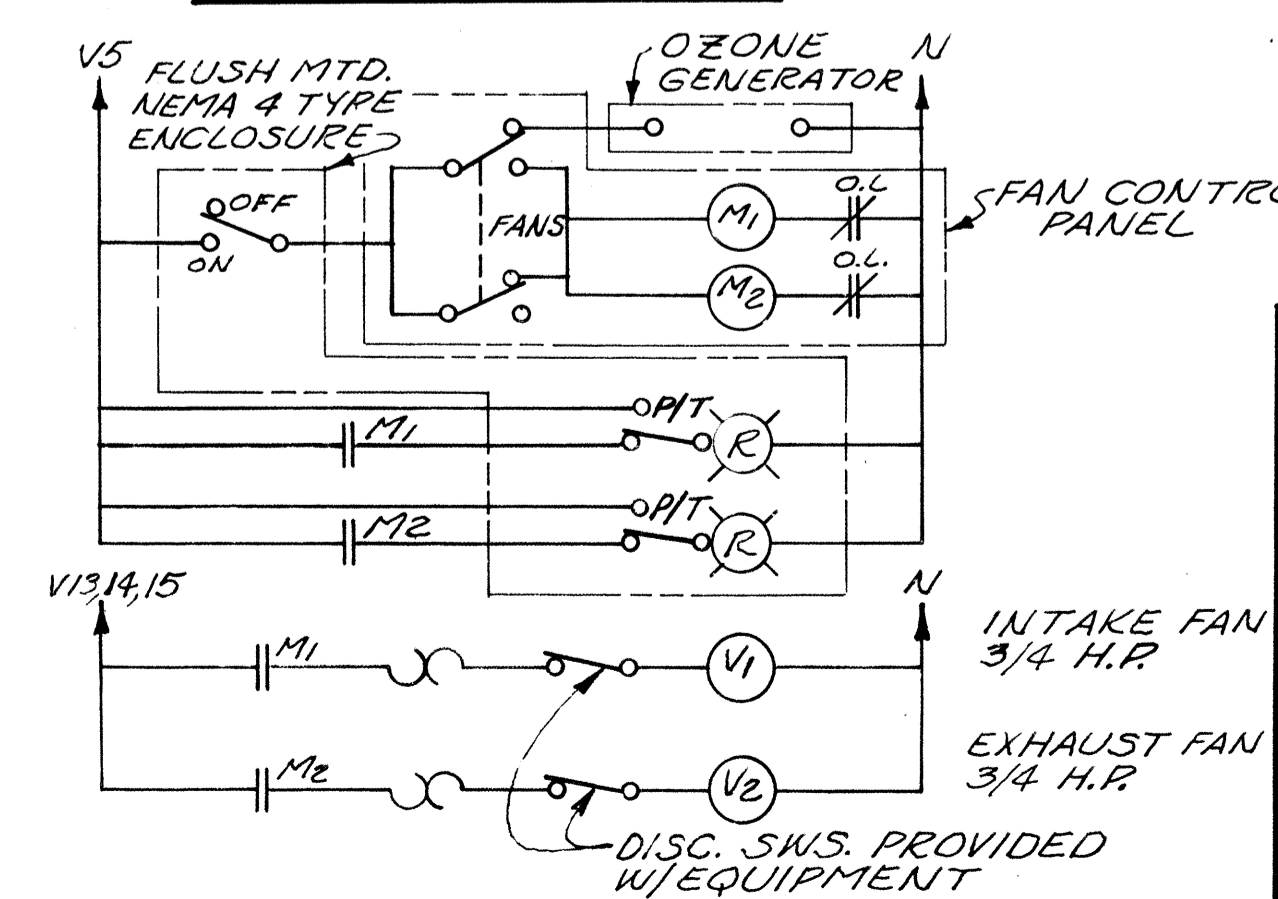
CKT.	DESCRIPTION	AMPS	POLE	LOAD
16	RECPT. (INTERM. & PUMP RM.) & HTR.	20	1	1200
17	SUMP PUMP (1/2 HP IN PUMP ROOM)	20	1	600
18-19	WATER HEATER	60	2	3000
20	SPARE (DO NOT USE)	20	1	—
21-22	LIGHTS (ROADWAY) & RECPT. (LAB.)	20	2	1200
23	LIGHTS (WALKWAY)	20	1	700
24-26	CONDENSING UNIT (PAD)	40	3	6000
27	RECPT. (VAC. & SAMPLE PUMPS)	20	1	1500
28-29	RECPT. (LAB.)	20	2	300
30	RECPT. (LAB.)	20	1	800
31	BAIAGE HOOD	15	1	1000
32	ELECT. HTR. (SERVICE RM.)	30	1	3000
33-35	EXH. FAN (DRY WELL)	15	3	1130
36-40	SPARES	20	1	—
41-42	SPACES	—	—	—

* PROVIDE GRD. FAULT/CKT. PROTECTION ON THESE CKTS.

CONTROL BUILDING LIGHTING PANEL SCHEDULE "V"

CKT.	DESCRIPTION	AMPS	POLE	LOAD
1	LIGHTS (HALLWAY & LAB.)	20	1	1000
2	LIGHTS (WETWELL)	20	1	1400
3	LIGHTS (PUMP RM & RECPT. (LAB.))	20	1	900
4	WATER SEAL SOLENOIDS (PUMP RM.)	20	1	400
5	OZONE GENERATOR	20	1	400
6	RAW SEWAGE LIQ. LEV. CONTROLLER	20	1	1400
7	INFLUENT RAW SEWAGE RECORDER	20	1	150
8	MONITOR SECTION MCC "V"	20	1	1000
9	HYPOCHLORINATOR	20	1	80
10-11	DUCT BLOWER	15	2	1700
12	INTERCOM SYSTEM	20	1	1500
13-15	EXH. & F.A. FAN WET WELL	15	3	2200
16-20	SPARES	—	—	—

* PROVIDE GRD. FAULT/CKT. PROTECTION ON THESE CKTS.
** PROVIDE AND INSTALL LIGHTNING PROTECTORS GENERAL ELECTRIC MODEL 9L15-BCB002 ON ALL 115 VOLT CIRCUIT TO METERING EQUIPMENT.

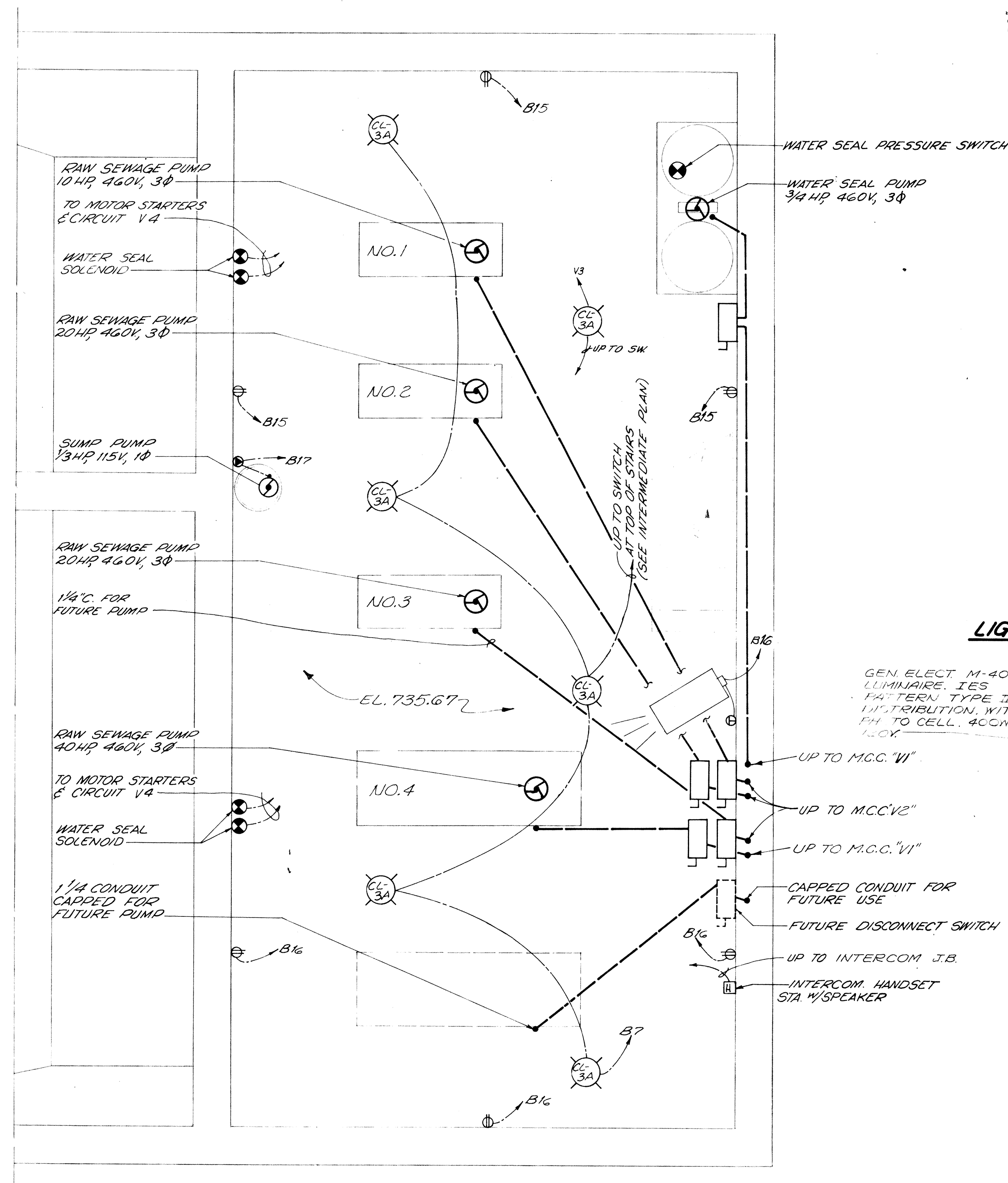


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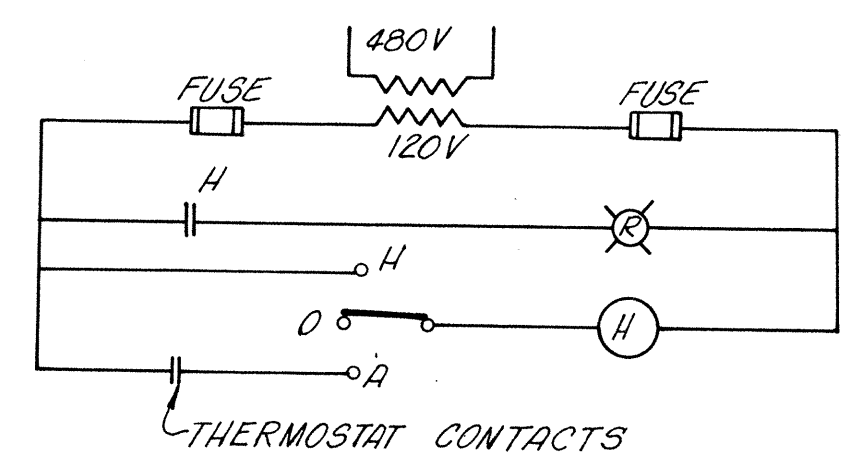
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OLENTANGY ENVIRONMENTAL CONTROL CENTER
ELECTRICAL

CONTROL BUILDING

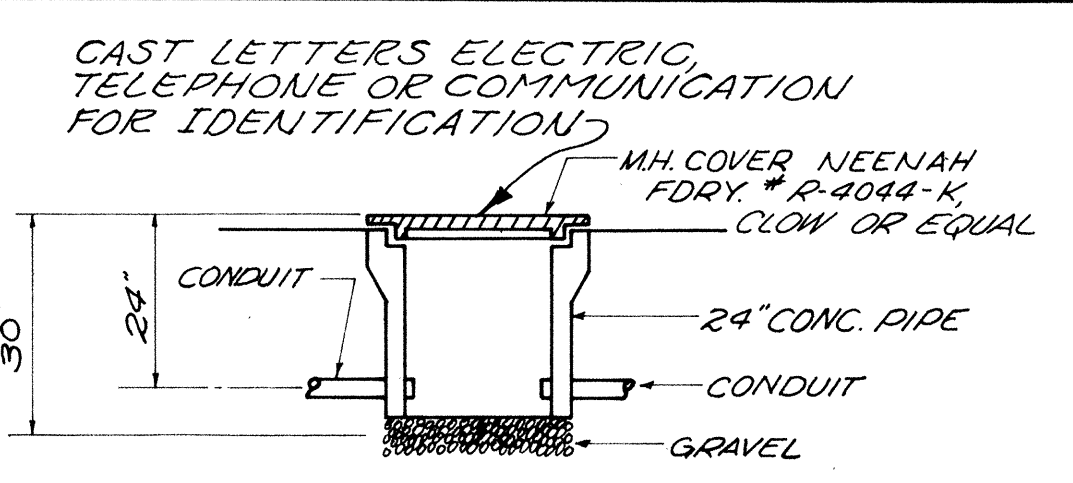
REVISIONS APRIL, 1976	DRAWN BY C.D.L. TRACED BY R.L.M.	CHECKED BY C.D.L. APPROVED BY
JUNE, 1973	SCALE: 3/8" = 1'-0"	SHEET 71 OF 75



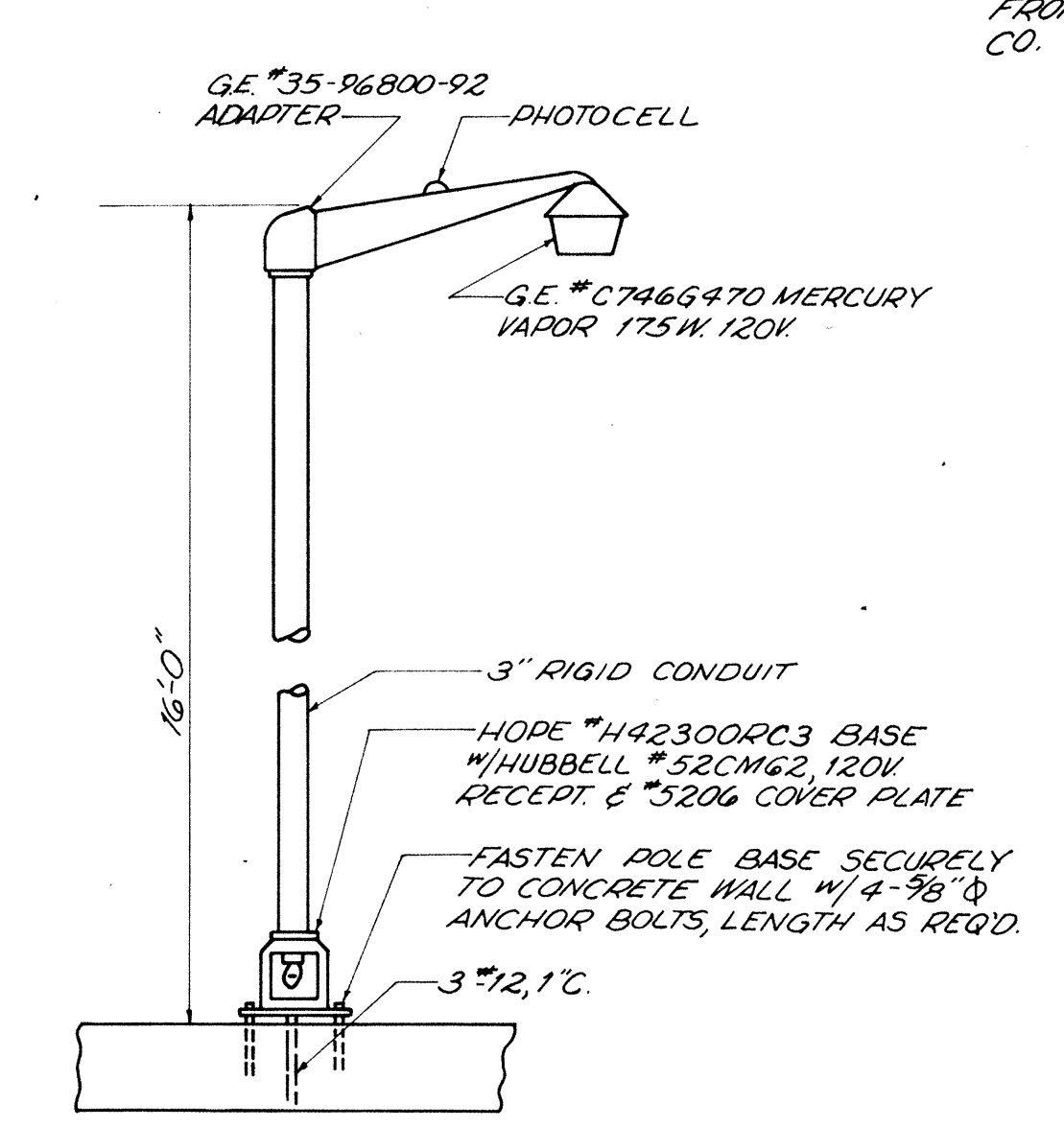
LOWER PLAN CONTROL BUILDING



WET WELL HEATING CONTROL WIRING DIAGRAM

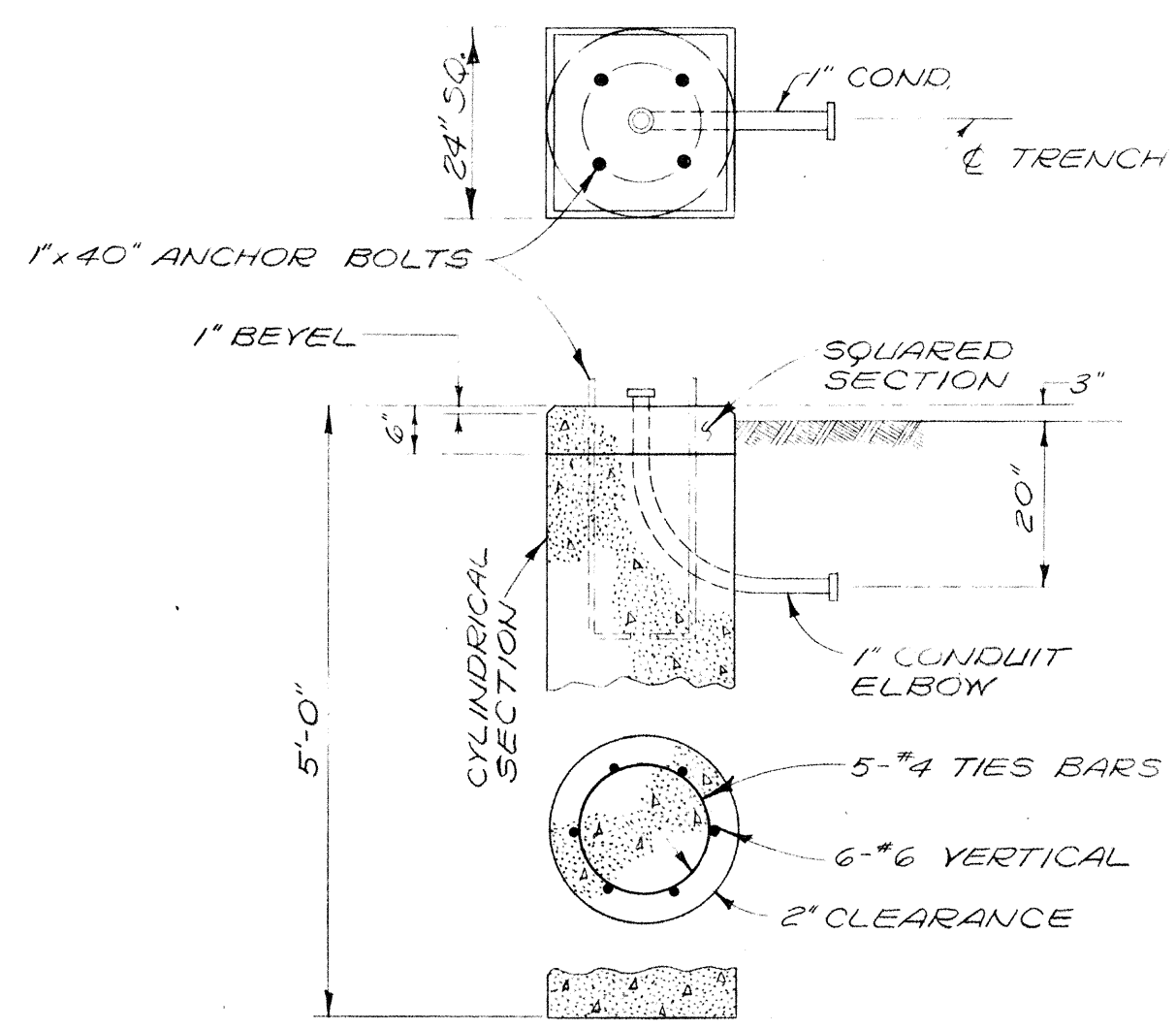
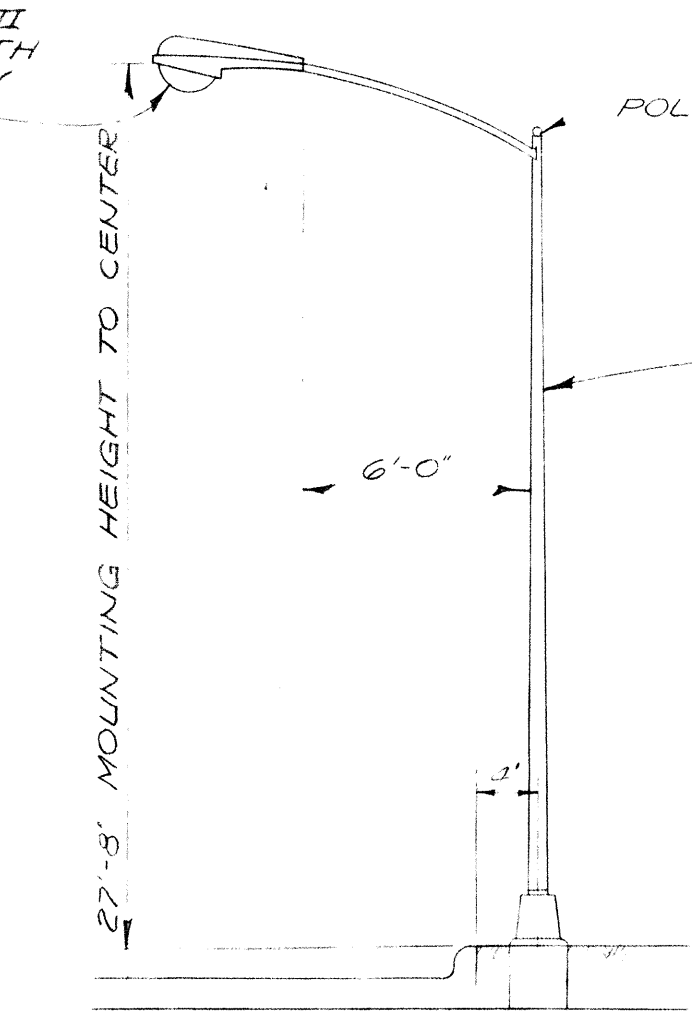


PULL BOX 'C' DETAIL

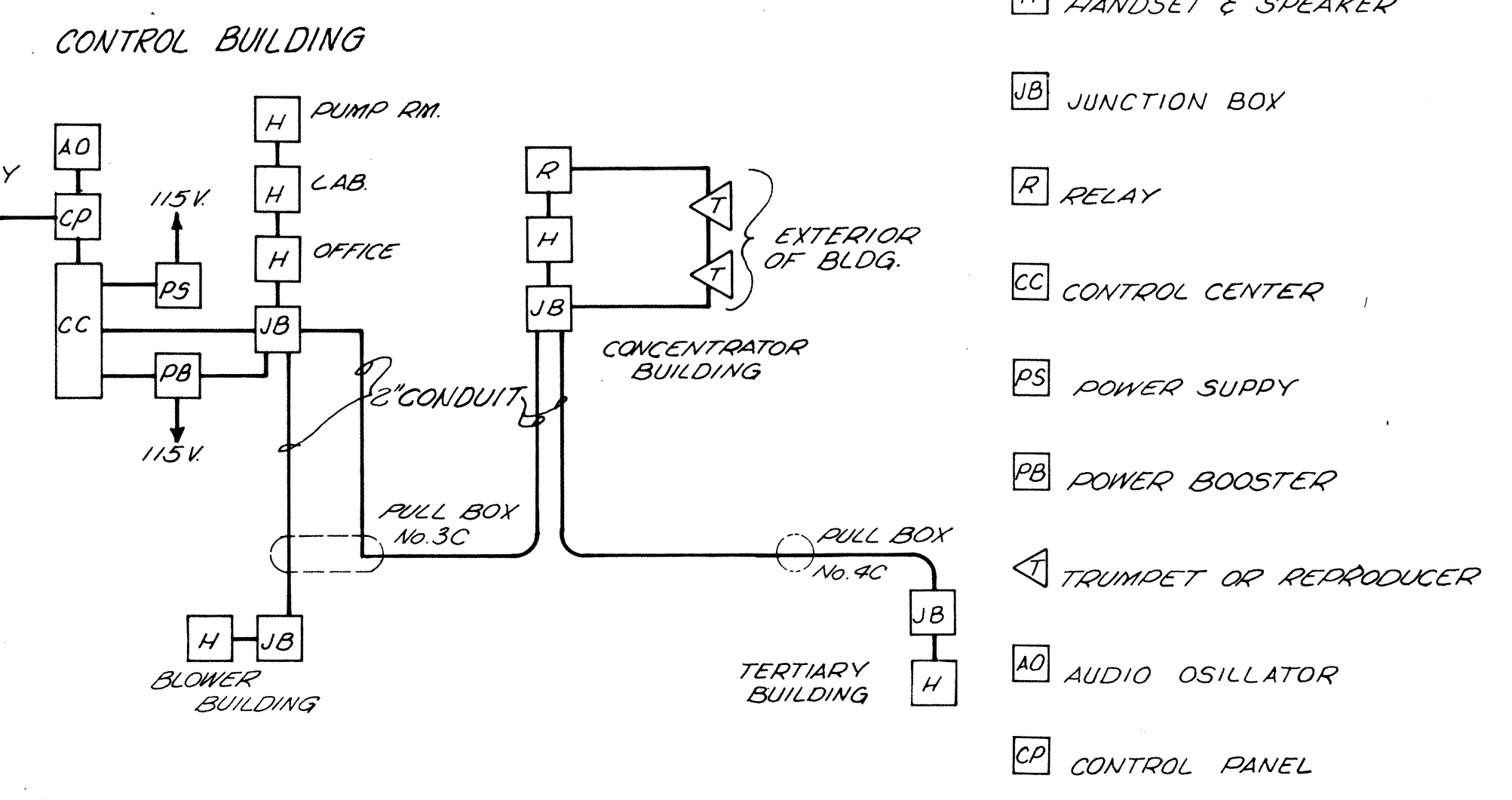


LIGHT POLE DETAIL 'P-2'

GEN. ELECT. M-400A LUMINAIRE, IES 1/4" TERN. TYPE III DISTRIBUTION WITH PH TO CELL. 400K L.C.Y.



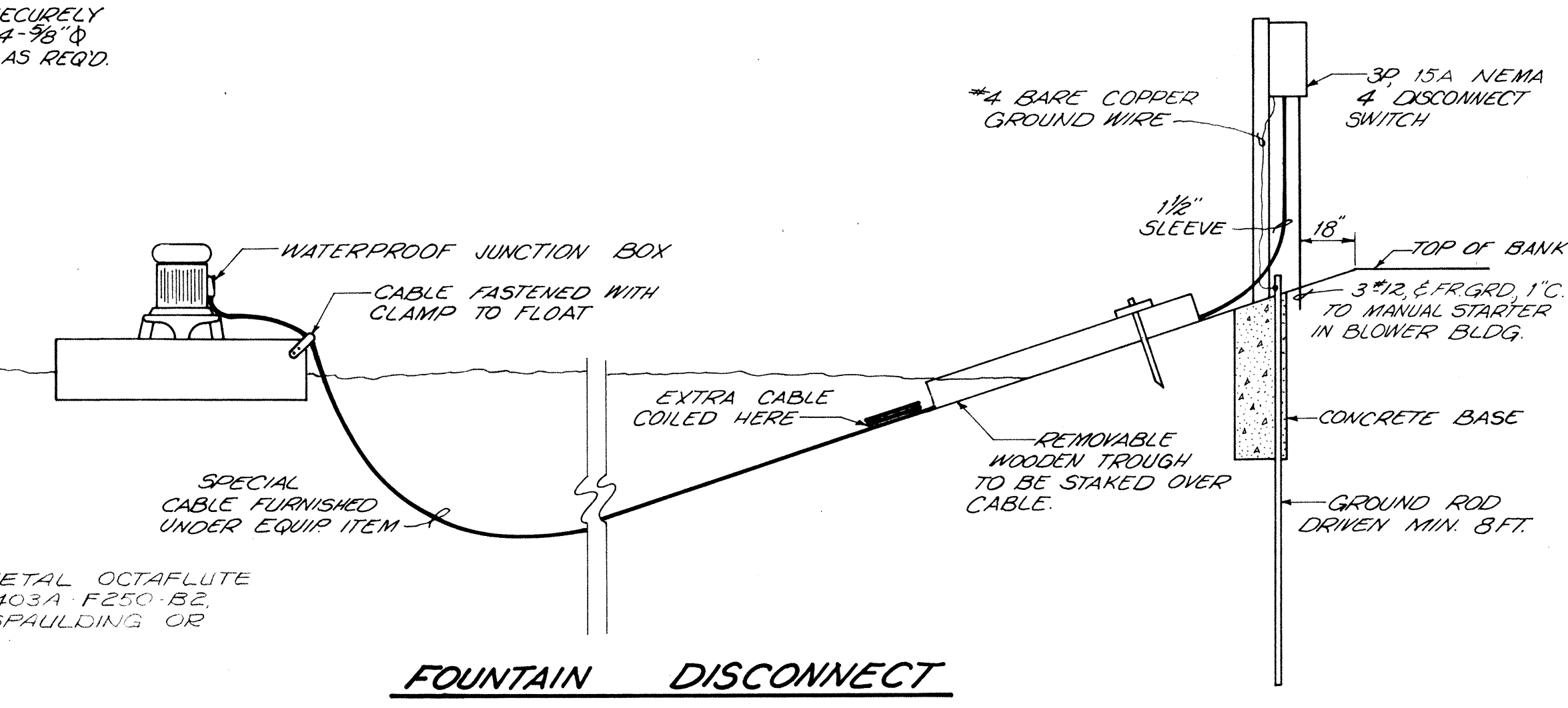
'P-1' LIGHT POLE & BASE DETAIL



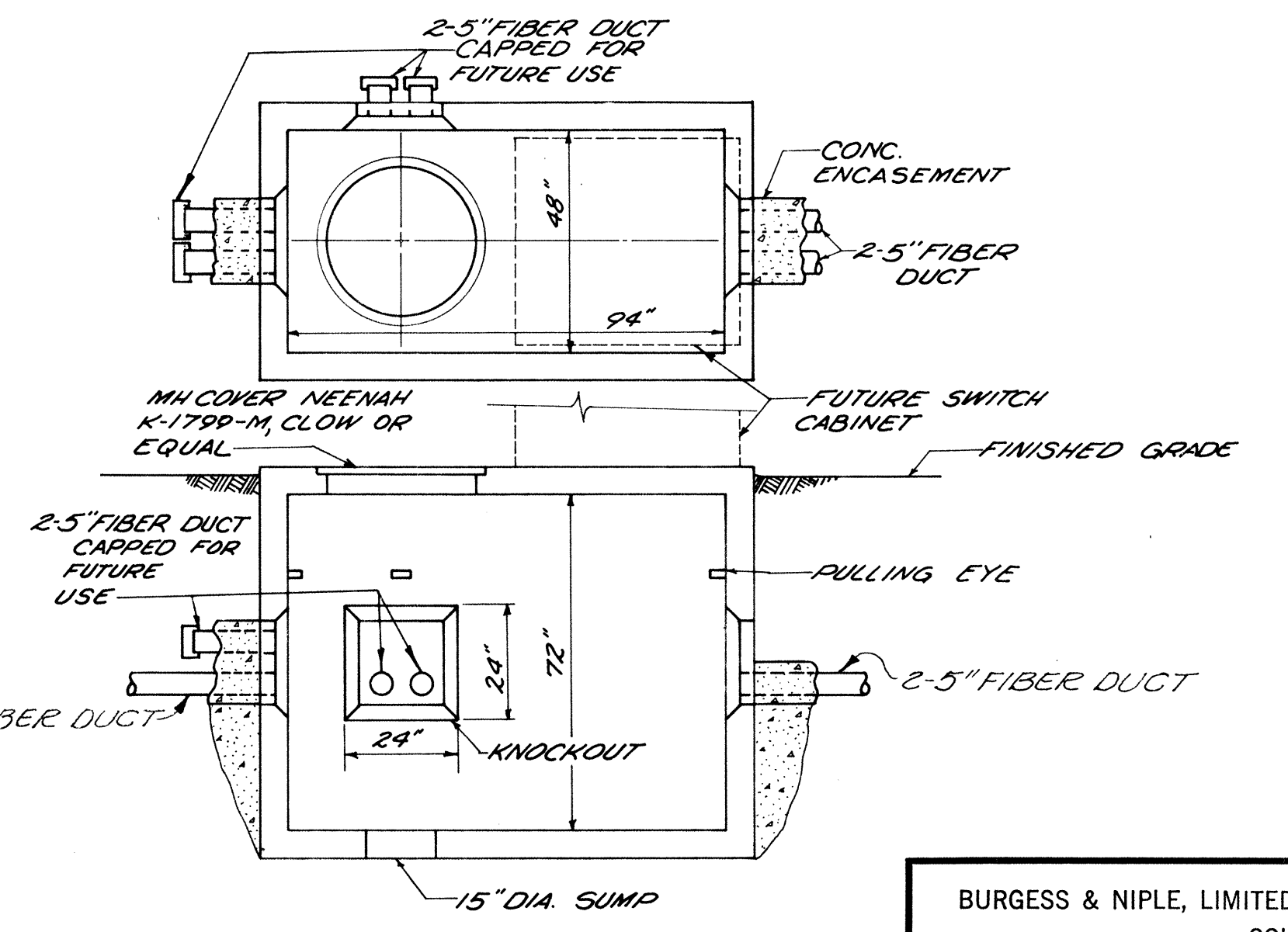
LEGEND

- H HANDSET & SPEAKER
- JB JUNCTION BOX
- R RELAY
- CC CONTROL CENTER
- PS POWER SUPPLY
- PB POWER BOOSTER
- T TRUMPET OR REPRODUCER
- AO AUDIO OSCILLATOR
- CP CONTROL PANEL

INTERCOM & PAGING SYSTEM DIAGRAM



FOUNTAIN DISCONNECT



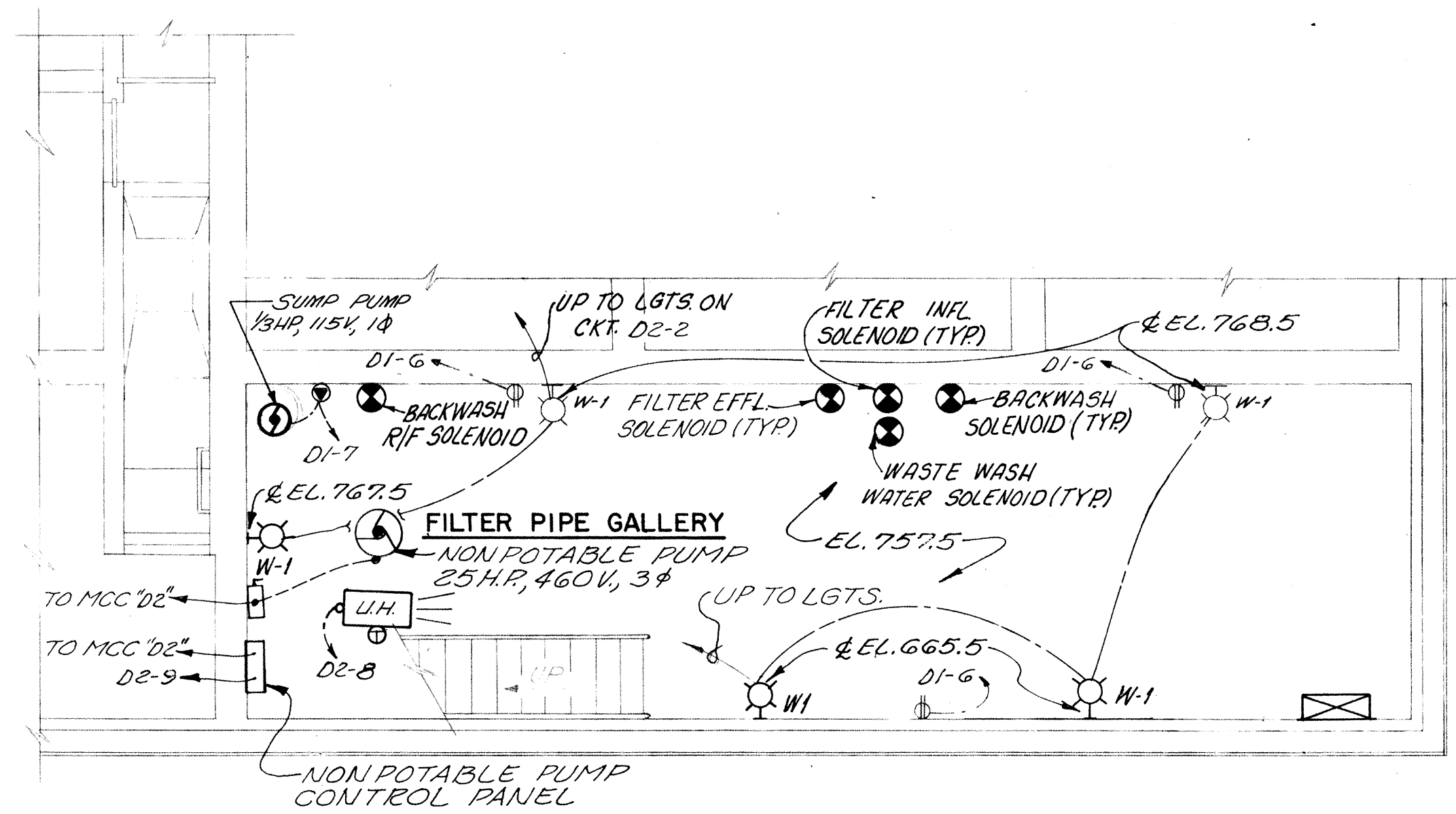
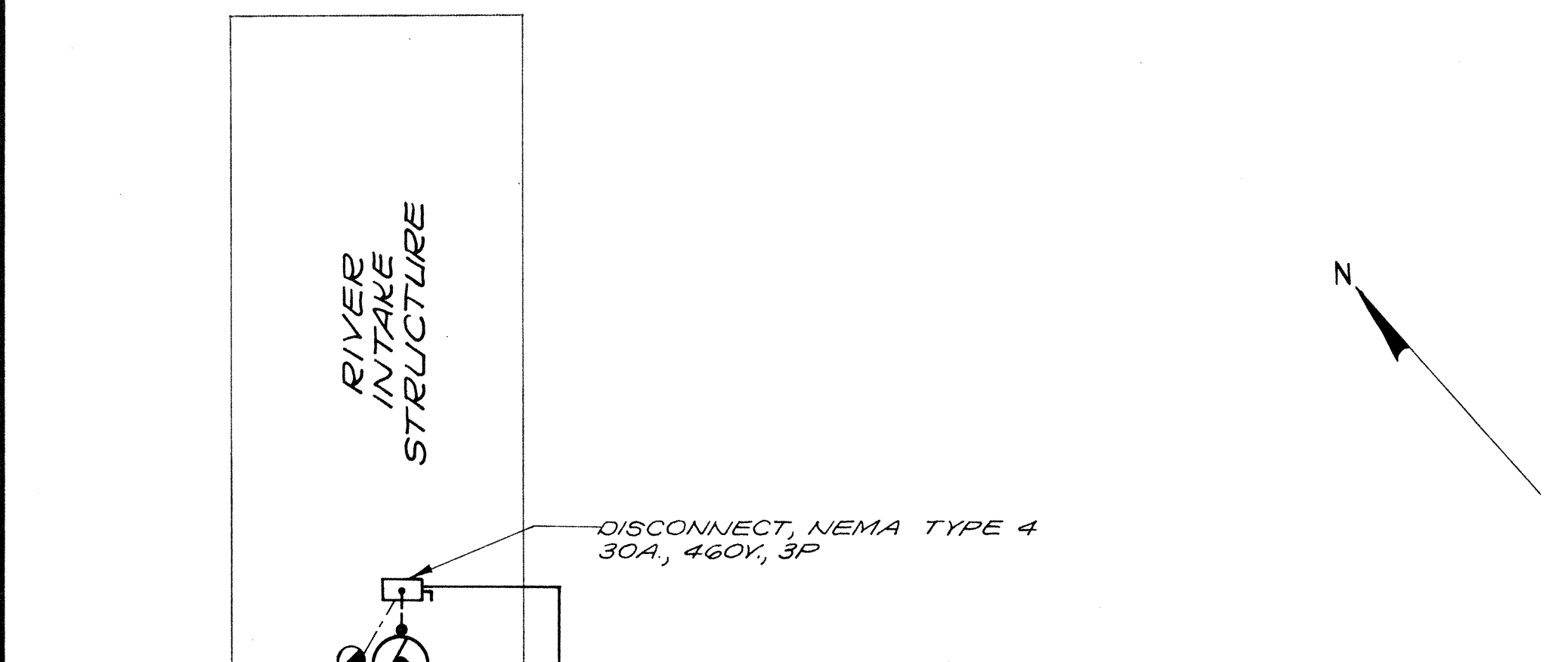
PRECAST PULLBOX 'A' DETAIL

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CONTROL BUILDING

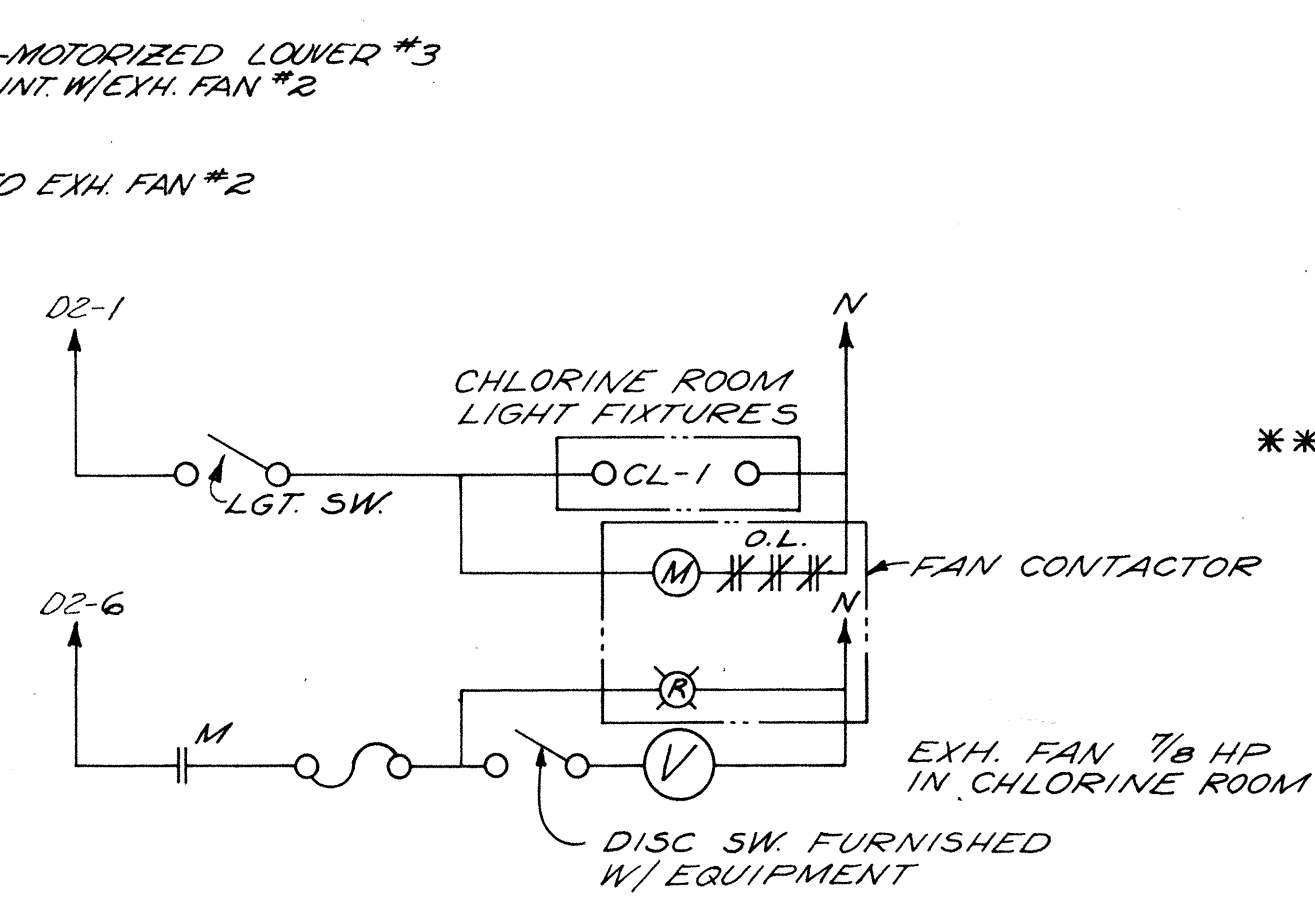
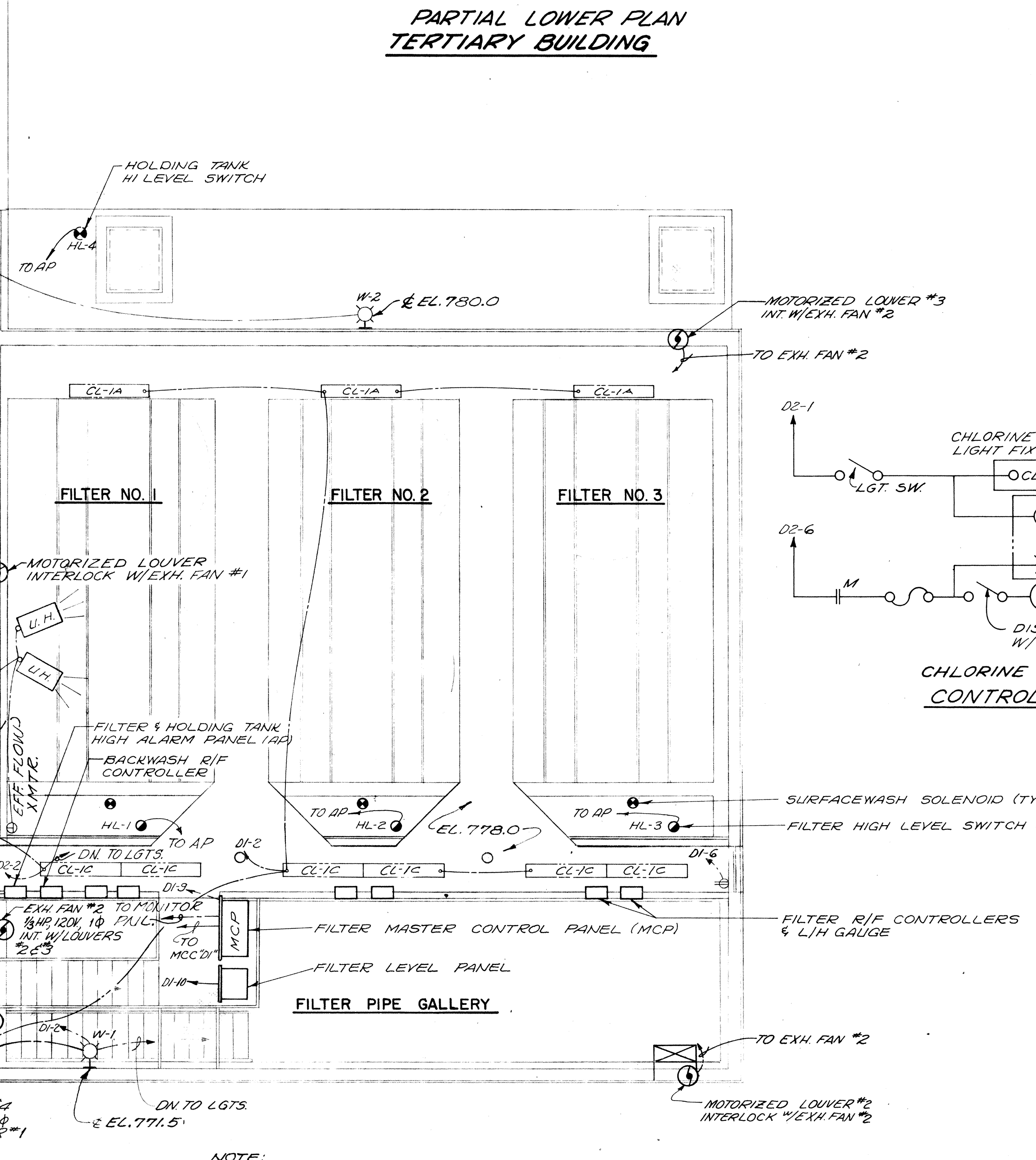
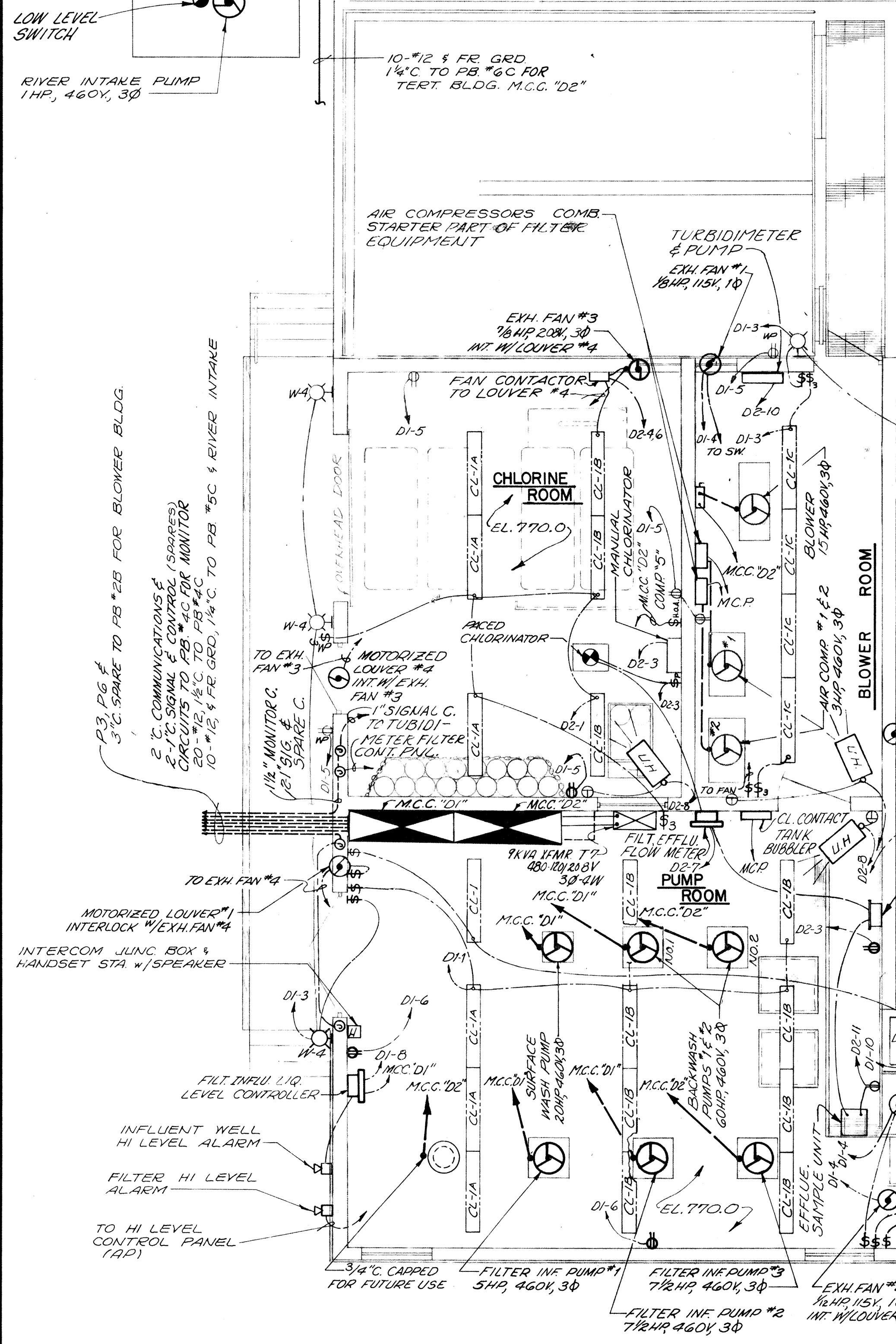
REVISIONS APRIL, 1976	DRAWN BY C.D.L. TRACED BY E.C.M.	CHECKED BY C.D.L. APPROVED BY
JUNE, 1973	SCALE: 3/8" = 1'-0"	SHEET 72 OF 75



NOTE: SEE SHEET 37, SECTIONS A1B FOR FILTER PIPE GALLERY LIGHT LOCATIONS.

TERTIARY BUILDING LIGHTING PANEL SCHEDULE "D1"

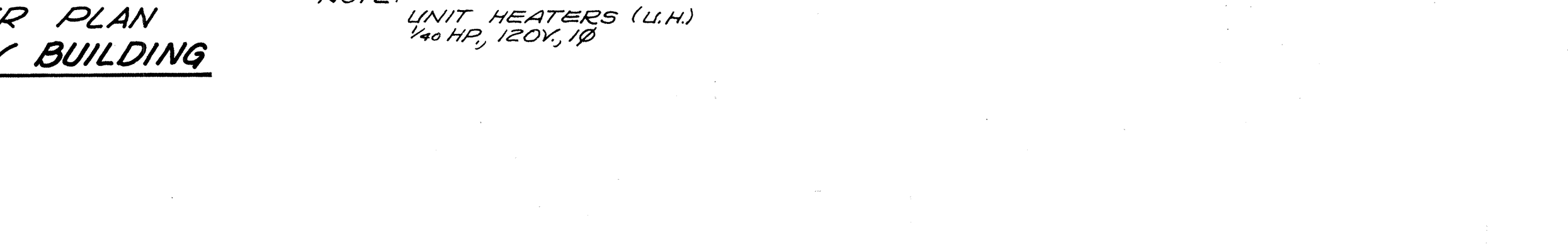
CKT.	DESCRIPTION	AMPS	POLE	LOAD
1	LIGHTS (INFLU. PUMP ROOM)	20	1	1100
2	LIGHTS (PIPE GALLERY & CATWALK)	20	1	1500
3	LIGHTS (OUTSIDE AIR COMP. HALLWAY)	20	1	1400
4	EXH. FANS #1, #2, #4 & MOT. LOU. #1, #2, #3, #5	20	1	1100
5	RECEPT. (CHLOR. RM. & AIR COMP. HALLWAY)	20	1	900
6	RECEPT. (INF. PUMP RM. & PIPE GALLERY)	20	1	900
7	SUMP PUMP 1/3 HP	20	1	600
8	FILTER INFLU. LIQ. LEV. CONTROLLER	20	1	600
9	FILTER MASTER CONTROL PANEL	20	1	500
10	FILTER HOLDING TANK HI. LEV. CONT. PNL.	20	1	200
11	SPARES	20	1	—
12	SPARES	20	1	—
13,15	SPARES	20	1	—
16-20	SPARES	20	1	—



TERTIARY BUILDING LIGHTING PANEL SCHEDULE "D2"

CKT.	DESCRIPTION	AMPS	POLE	LOAD
1	LIGHTS	20	1	600
2	LIGHTS (GALLERY, PUMP RM. & CATWALK)	20	1	700
3	CHLORINATORS	20	1	500
4-6	CL ₂ ROOM EXH. FAN	20	1	200
7	FILTER EFFLU. FLOW METER	20	1	500
8	UNIT HEATERS #1, #2, #3, #4, #5 & #6	20	1	1000
9	NON POTABLE PUMP CONT. PNL.	20	1	—
10	TURBIDIMETER	20	1	—
11	EFFLUENT SAMPLE PUMP	20	1	200
12-15	SPARES	20	1	—

** PROVIDE AND INSTALL LIGHTNING PROTECTORS GENERAL ELECTRIC MODEL 9L15 BC8002 ON ALL 115 VOLT CIRCUIT TO TELEMETERING AND METERING EQUIPMENT.



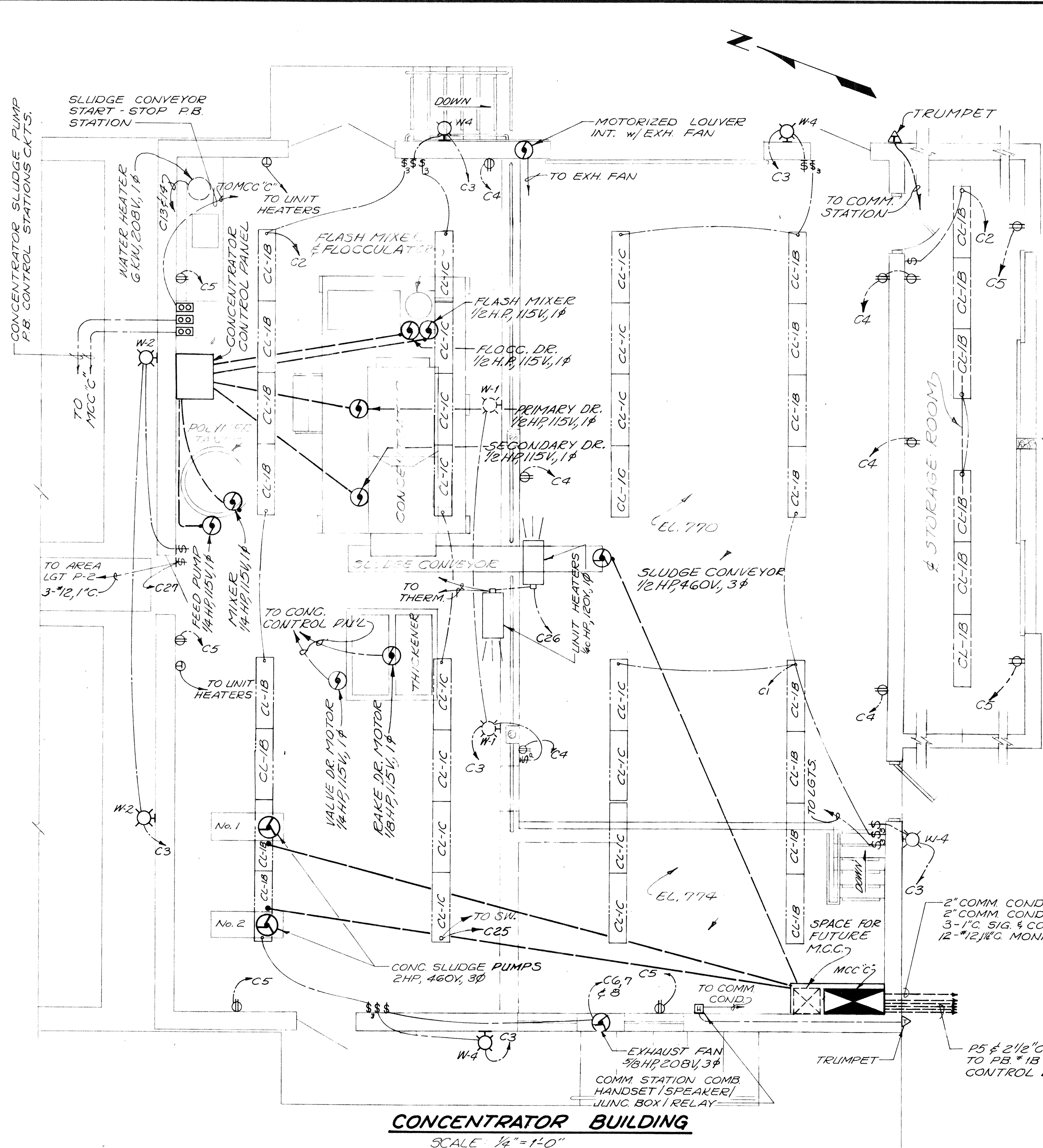
NOTE: UNIT HEATERS (U.H.) 1/40 HP, 120V, 1Ø

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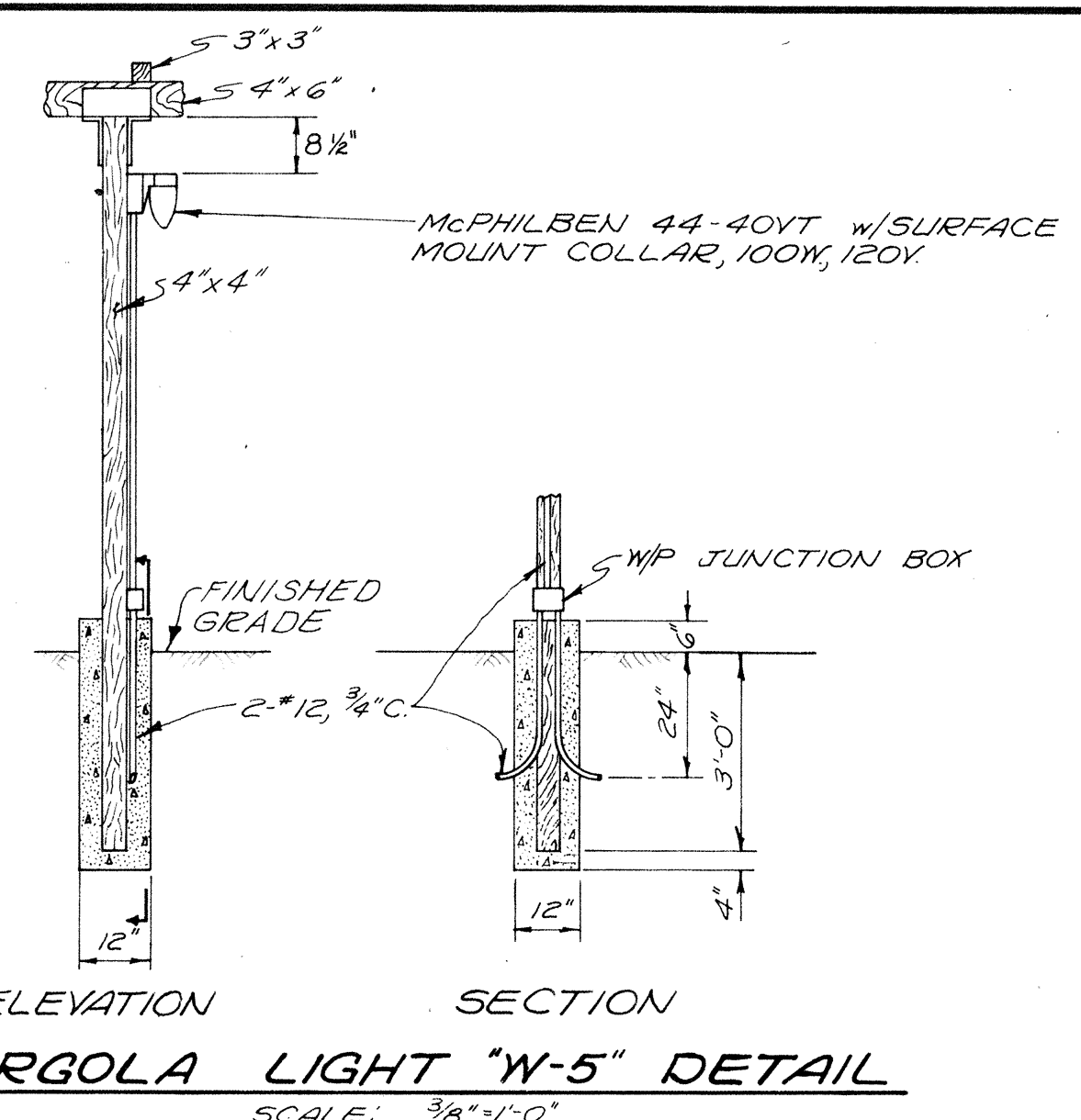
**DELAWARE COUNTY, OHIO
OLENTANGY ENVIRONMENTAL CONTROL CENTER
ELECTRICAL**

TERTIARY BUILDING

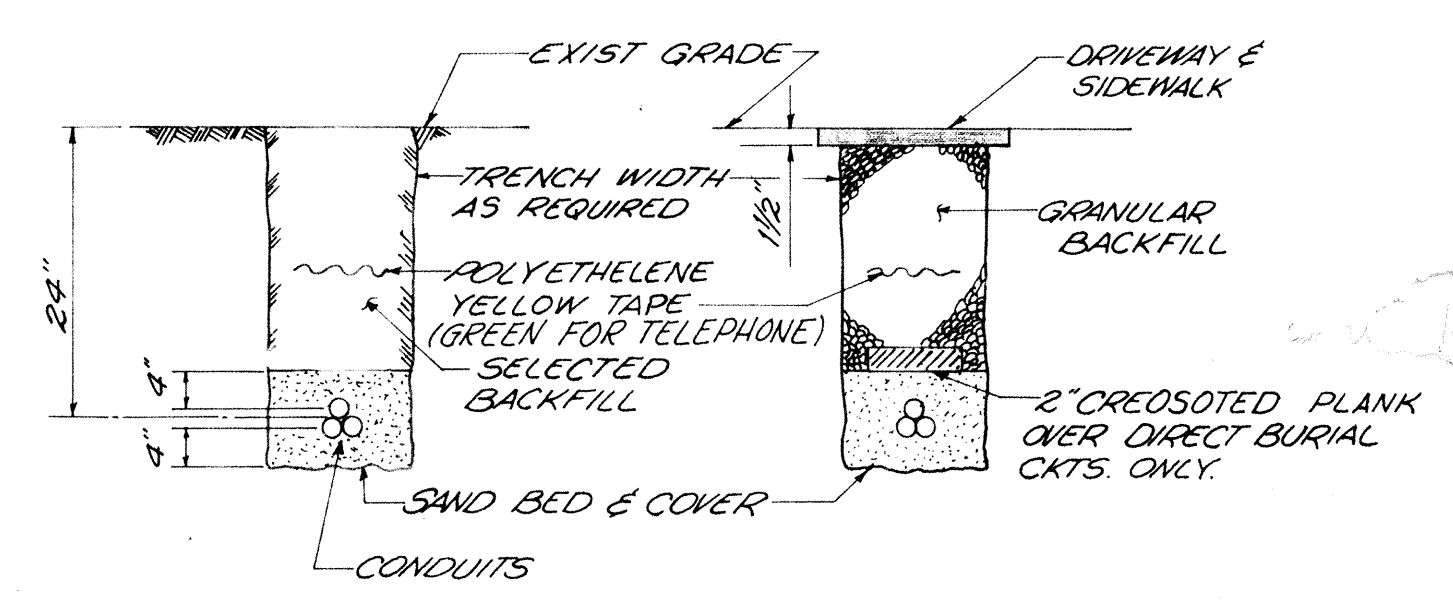
REVISIONS APRIL, 1976	DRAWN BY C.D.L. TRACED BY E.L.M.	CHECKED BY C.D.L. APPROVED BY
JUNE, 1973	SCALE: 1/4" = 1'-0"	SHEET 73 OF 75



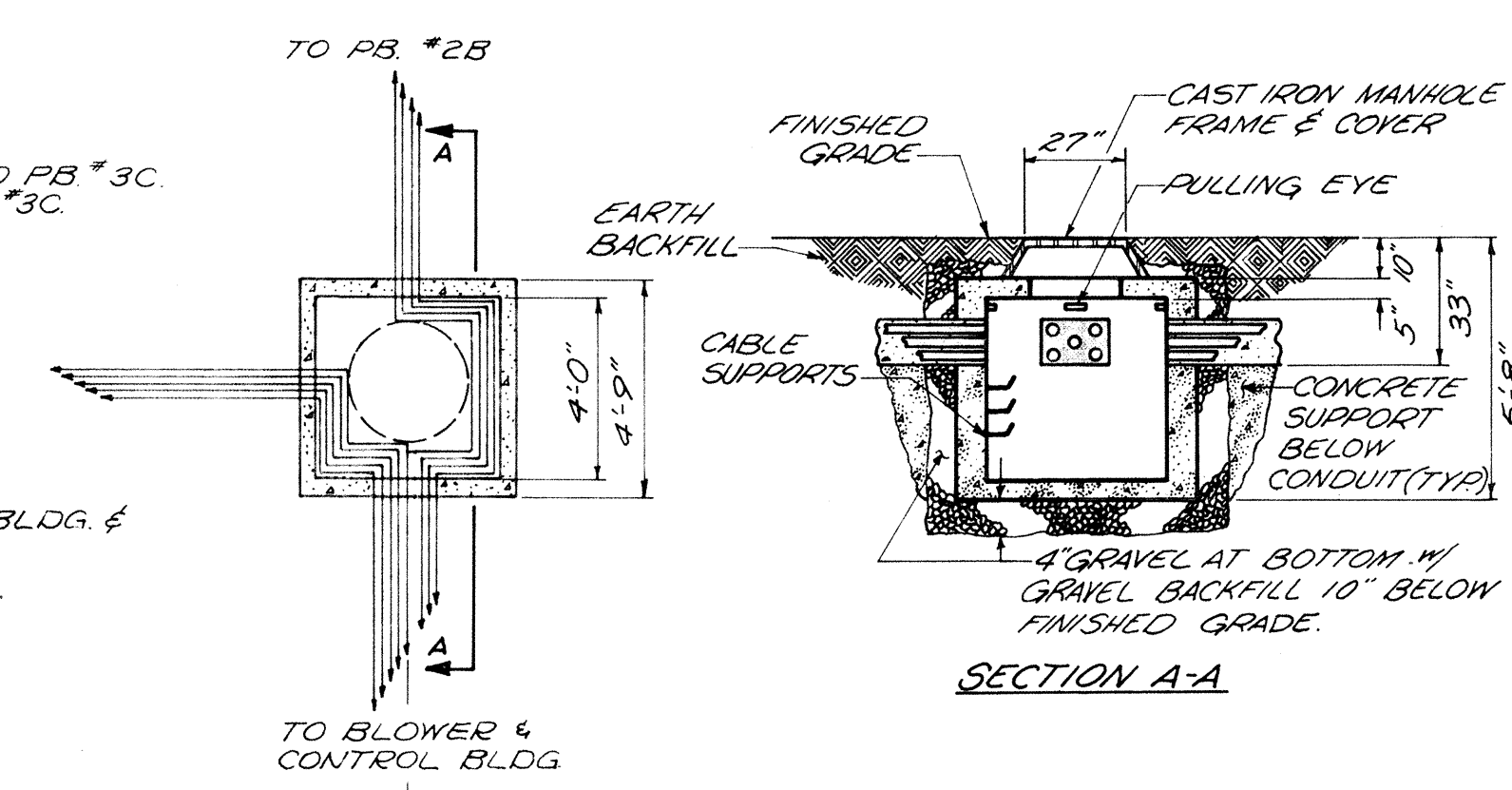
CONCENTRATOR BUILDING
SCALE: 1/4" = 1'-0"



PERGOLA LIGHT "W-5" DETAIL
SCALE: 3/8" = 1'-0"



TYPICAL TRENCH DETAIL

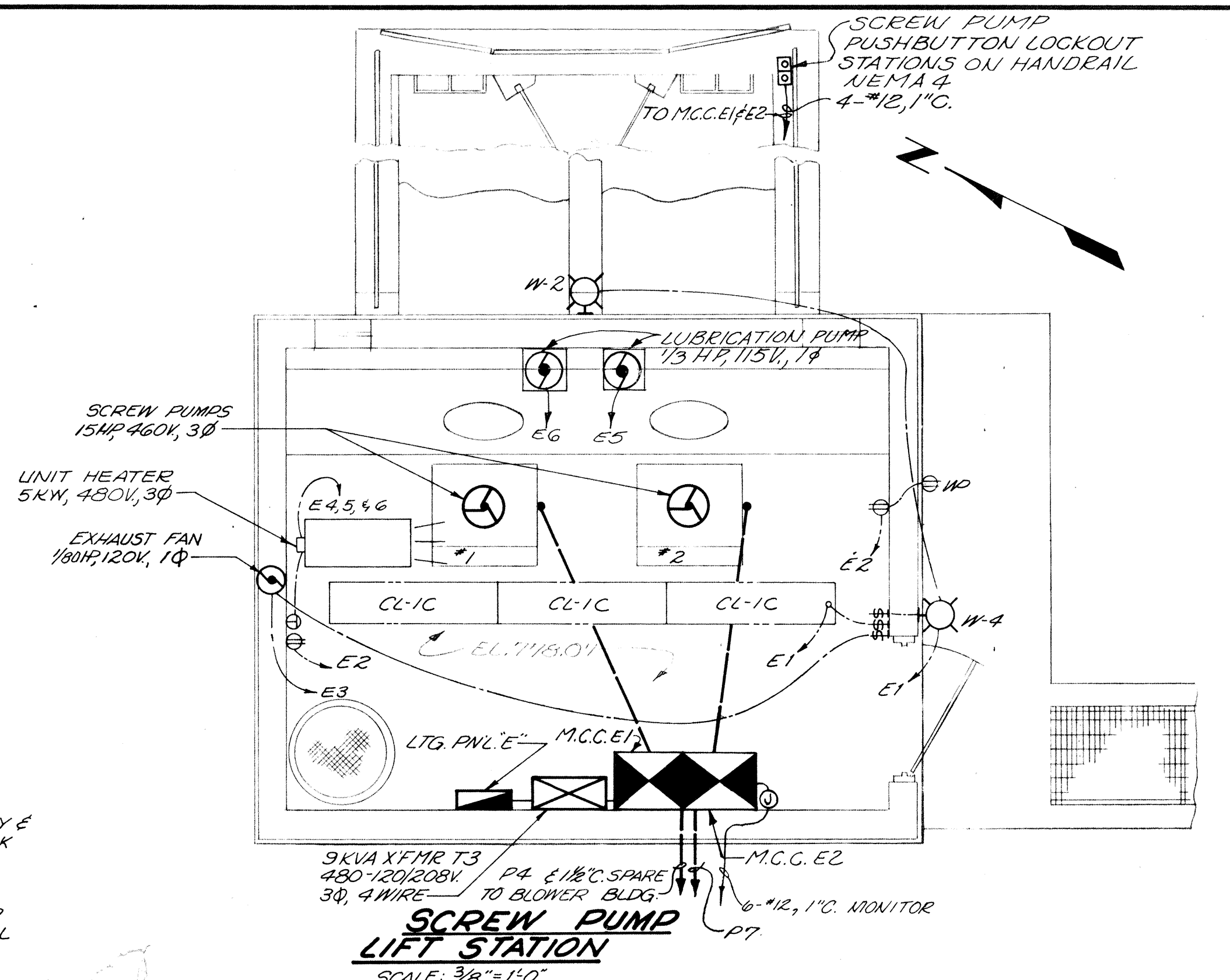


PULL BOX #1B
PRECAST CONCRETE
4' X 4' X 4' (PB #2B SIMILAR)

CONCENTRATOR BUILDING LIGHTING PANEL SCHEDULE "C"			
CKT.	DESCRIPTION	AMPS	POLE/LOAD
1	LIGHTS (WEST)	20	1 1600
2	LIGHTS (EAST) & STORAGE RM.	20	1 1400
3	LIGHTS (OUTDOORS) & CRAWL SPACE	20	1 1600
4	RECEPTACLES (SOUTH & EAST)	20	1 1000
5	RECEPTACLES	20	1 1000
6-8	EXHAUST FAN	20	3 960
9,10	CONCENTRATOR	50	2 1015
11,12	CONCENTRATOR (FUTURE)	50	2
13,14	WATER HEATER	40	2 6000
15-19	SPACES	20	1
20-24	SPACES		

CONCENTRATOR BUILDING LIGHTING PANEL SCHEDULE "C"			
CKT.	DESCRIPTION	AMPS	POLE/LOAD
25	LIGHTS	20	1 800
26	UNIT HEATERS	15	1 200
27	AREA LIGHT P-2 ON TANK'S	20	1 200
28	POLE RECEPTACLE	15	1 150
29-30	SPACES		

SCREW PUMP LIFT STATION LIGHTING PANEL SCHEDULE "E"			
CKT.	DESCRIPTION	AMPS	POLE/LOAD
1	MAIN BREAKER	40	2
2	LIGHTS	20	1 725
3	RECEPTACLES	20	1 300
4	EXHAUST FAN	15	1 55
5	LUBRICATION PUMP NO.1	15	1 828
6	LUBRICATION PUMP NO.2	15	1 828
7	SPARE	15	1
7-12	SPACE		



SCREW PUMP LIFT STATION
SCALE: 3/8" = 1'-0"

LIGHTING FIXTURE SCHEDULE				
FIX. No.	*MANUFACTURER	*CATALOG No.	LAMP SIZE	REMARKS
CL-1A CL-1B CL-1C	COLUMBIA	FSAPX-240-M6	2-F40WV	SUFFIX DENOTES SKINVEL STEM A=3", B=18", C=36"
CL-2	LITHONIA	M240-PA12	2-F40WV	SURFACE MOUNT
CL-3A CL-3B	MILLER	AC-1133	300 WATT	SUFFIX DENOTES SKINVEL STEM A=3/4" X 2 1/2", B=3/4" X 4 1/2"
CL-4	BENJAMIN	7514	200 WATT	W/ 3" STEM
W-1	MILLER	AC-1092	200 WATT	W/ J.B. FOR 3/8" COND.
W-2	HOLOPHANE	489-120	175 WATT MERC VAPOR	W/ PHOTOCELL
W-3	BENJAMIN	7536-BX	200 WATT	X/P, CLASS I, DIVISION I, GROUP D, RATED
W-4	McPHILBEN	43-50VT	200 WATT	
W-5	McPHILBEN	44-40YT	100 WATT	SURFACE MOUNT W/ COLLAR P-5655; W/ LEXAN GLOBE.
P-1	GEN. ELECTRIC	SEE LGT. POLE DETAIL "P-1" SHT. 72	400 WATT MERC. VAPOR	W/ RE CELL, TYPE III DISTRIBUTION, 120V REGULATOR BALLAST
P-2	GEN. ELECTRIC	SEE LGT. POLE DETAIL "P-2" SHT. 72	175 WATT MERC. VAPOR	W/ RE CELL, TYPE I DISTRIBUTION, 120V REGULATOR BALLAST
R-1	LITHONIA	26-440-A12	4-F40WV	EXPOSED "T" GRID COORDINATE W/ CEILING CONTRACTOR.
R-2	NUTONE	8662	100 WATT	FAU LIGHT W/ WALL CAP 885-AL & SUFFICIENT 4" DUCT

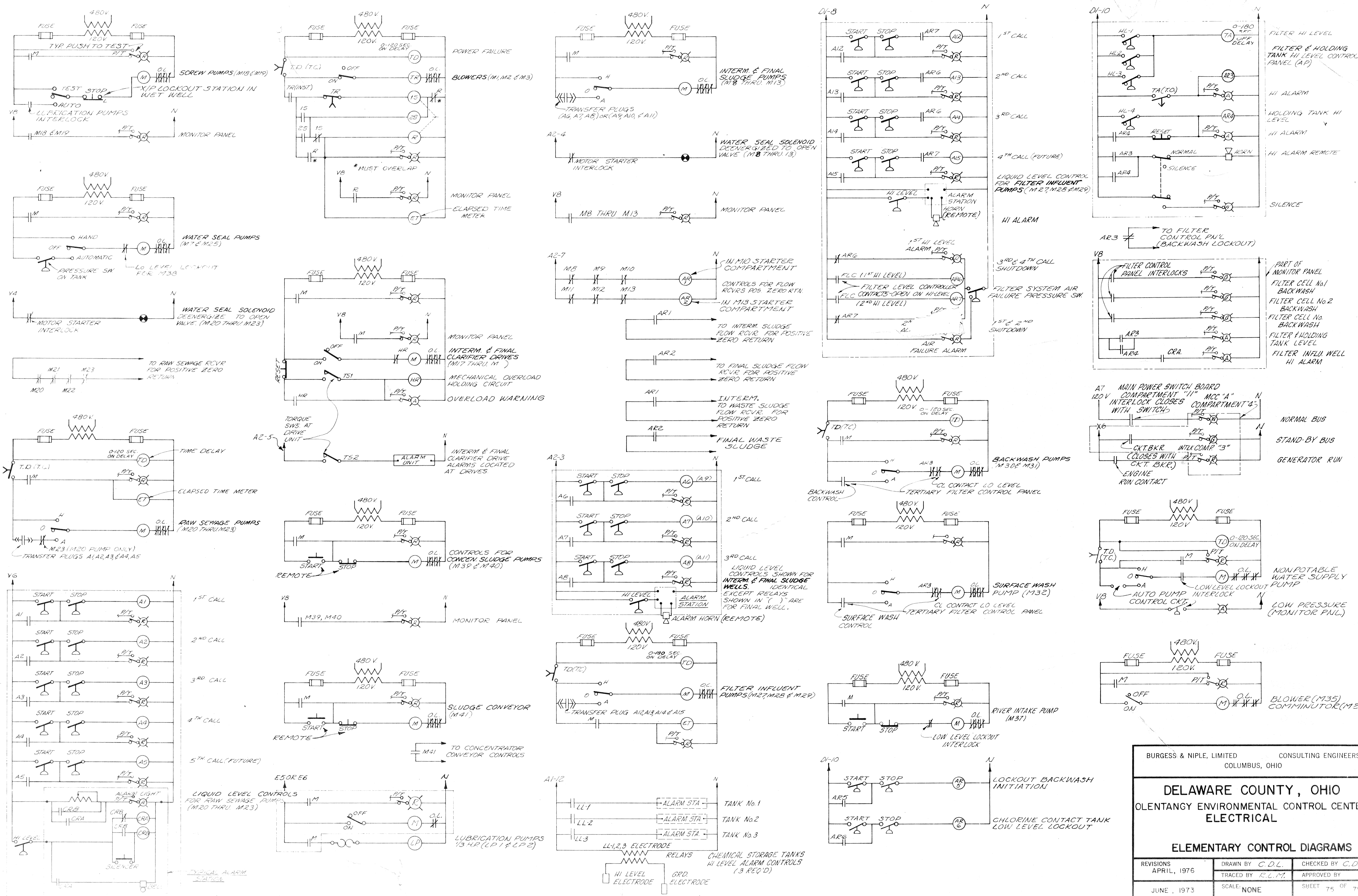
NOTE: ALL INCANDESCENT LAMPS SHALL BE RATED FOR 125-130V.
* DENOTES QUALITY AND GRADE ONLY. EQUIVALENT FIXTURES MAY BE FURNISHED BY WESTINGHOUSE, SMITHCRAFT, SPAULDING, CROUSE-HINDS, PRESCOLITE, ETC.

BURGESS & NIPLE, LIMITED CONSULTING ENGINEERS
COLUMBUS, OHIO

DELAWARE COUNTY, OHIO
OLENTANGY ENVIRONMENTAL CONTROL CENTER
ELECTRICAL

SCREW PUMP LIFT STATION & CONCENTRATOR BUILDING

REVISIONS APRIL, 1976	DRAWN BY C.D.L. TRACED BY E.L.M.	CHECKED BY C.D.L. APPROVED BY
JUNE, 1973	SCALE: AS SHOWN	SHEET 74 OF 75



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COLUMBUS, OHIO

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ELEMENTARY CONTROL DIAGRAMS

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JUNE, 1973	SCALE: NONE	SHEET 75 OF 75