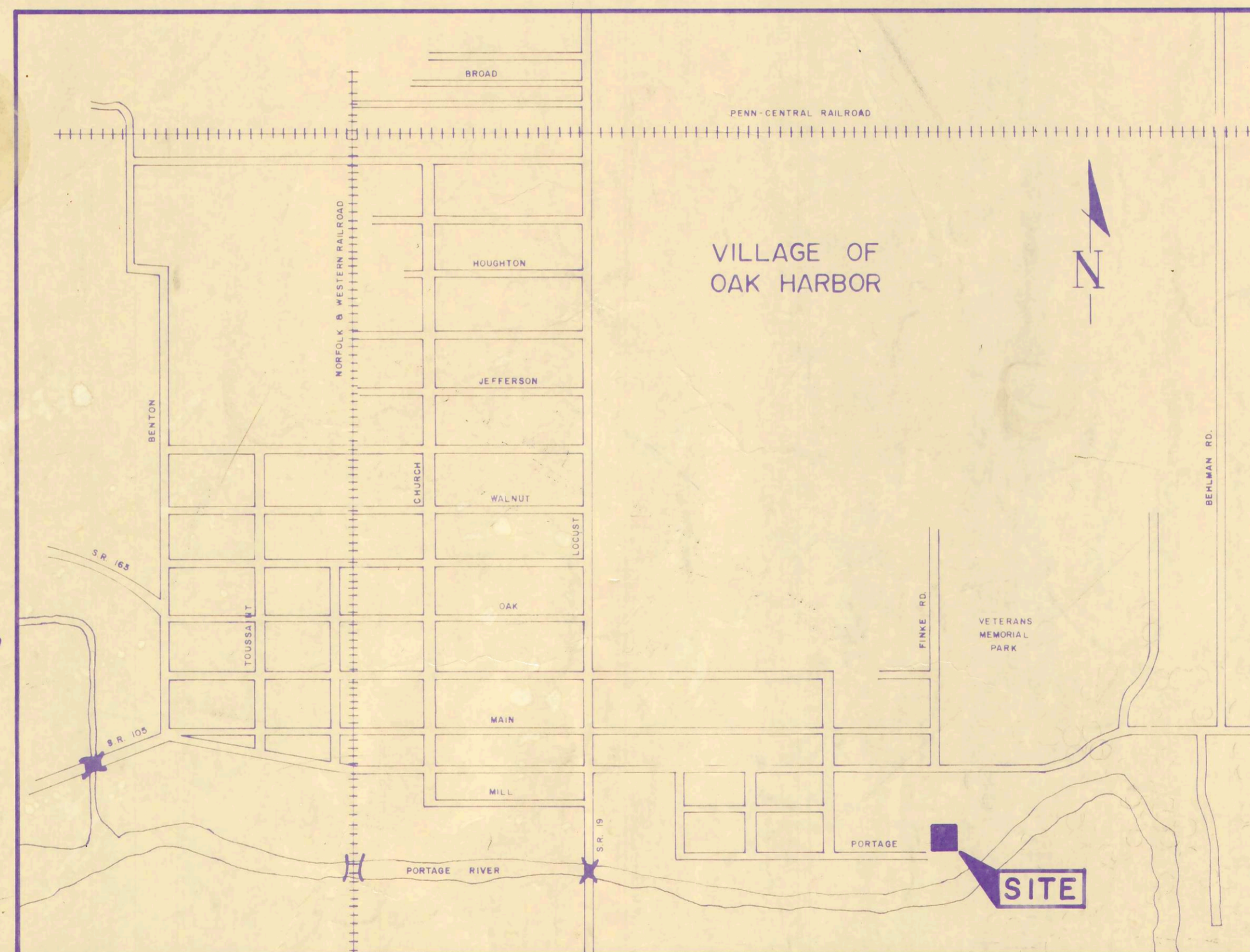


WASTEWATER TREATMENT PLANT IMPROVEMENTS VILLAGE OF OAK HARBOR, OHIO 1989

9364 feet of storm
sewer installed

INDEX OF SHEETS

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LOCATION MAP

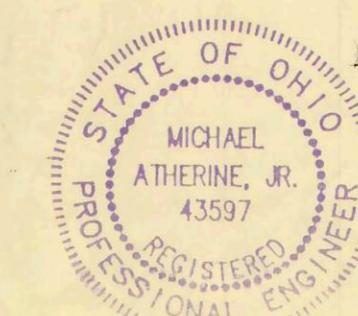
VILLAGE ADMINISTRATOR _____

DATE _____

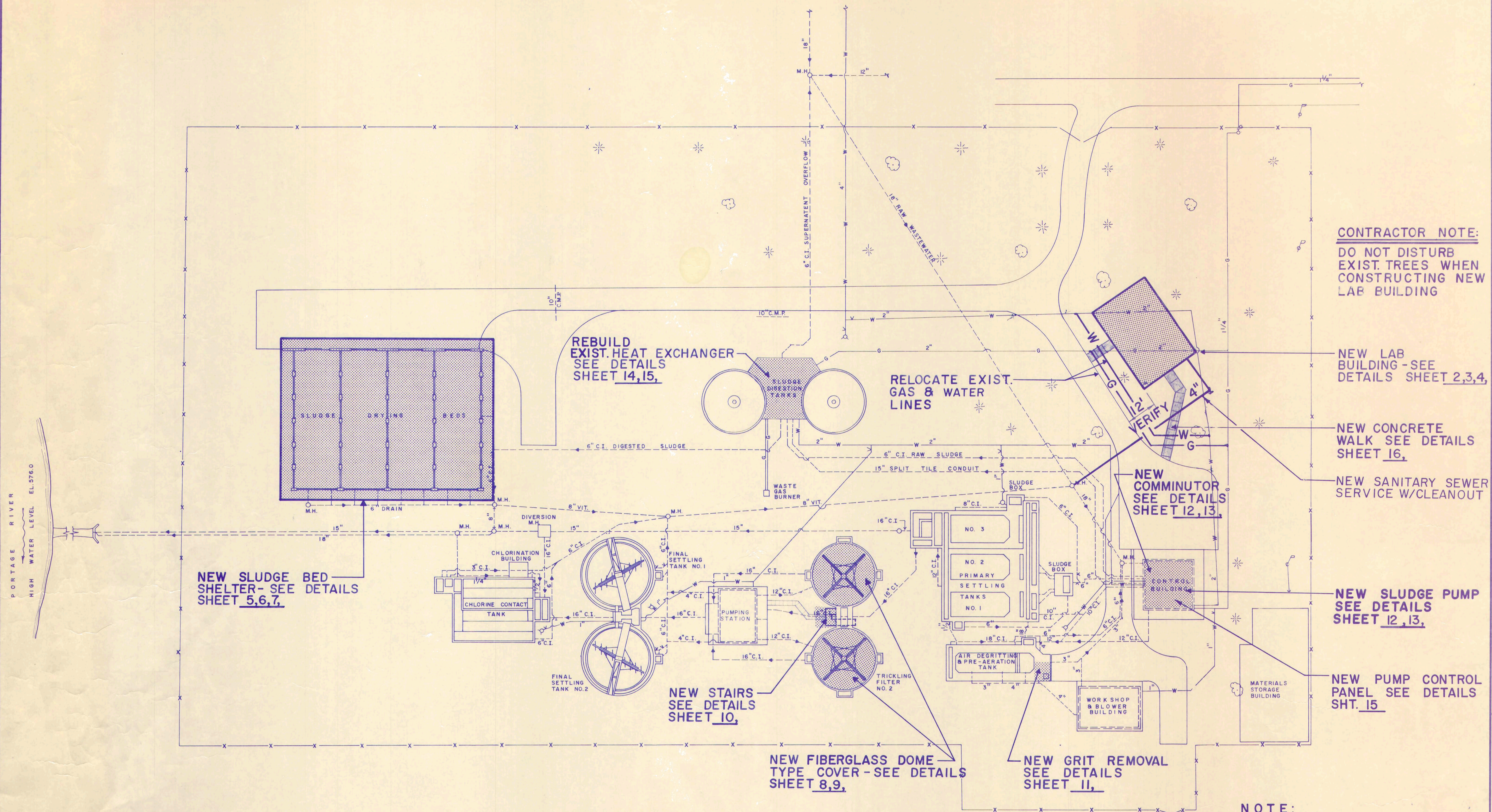
Michael Atherine Jr.
MICHAEL ATHERINE JR. P.E.

8/8/89
DATE

UNDERGROUND UTILITIES
TWO WORKING DAYS
BEFORE YOU DIG
Call 800-362-2764 (Toll Free)
OHIO UTILITIES PROTECTION SERVICE
NON-MEMBERS
MUST BE CALLED DIRECTLY



POGGEMEYER DESIGN GROUP, INC.
ENGINEERS-ARCHITECTS-PLANNERS PH. 419-352-7537
121 EAST WOOSTER STREET, BOWLING GREEN, OHIO 43407



CONTRACTOR NOTE:
DO NOT DISTURB
EXIST. TREES WHEN
CONSTRUCTING NEW
LAB BUILDING

NEW LAB
BUILDING - SEE
DETAILS SHEET 2,3,4,

NEW CONCRETE
WALK SEE DETAILS
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SEE DETAILS
SHEET 10,

NEW FIBERGLASS DOME
TYPE COVER - SEE DETAILS
SHEET 8,9,

NEW GRIT REMOVAL
SEE DETAILS
SHEET 11,

SITE PLAN
SCALE: 1" = 20'

NOTE:
WORK ON UPPER FLOOR OF
EXISTING CONTROL BUILDING
CANNOT START UNTIL NEW LAB
IS SUBSTANTIALLY COMPLETE.

REVISIONS	



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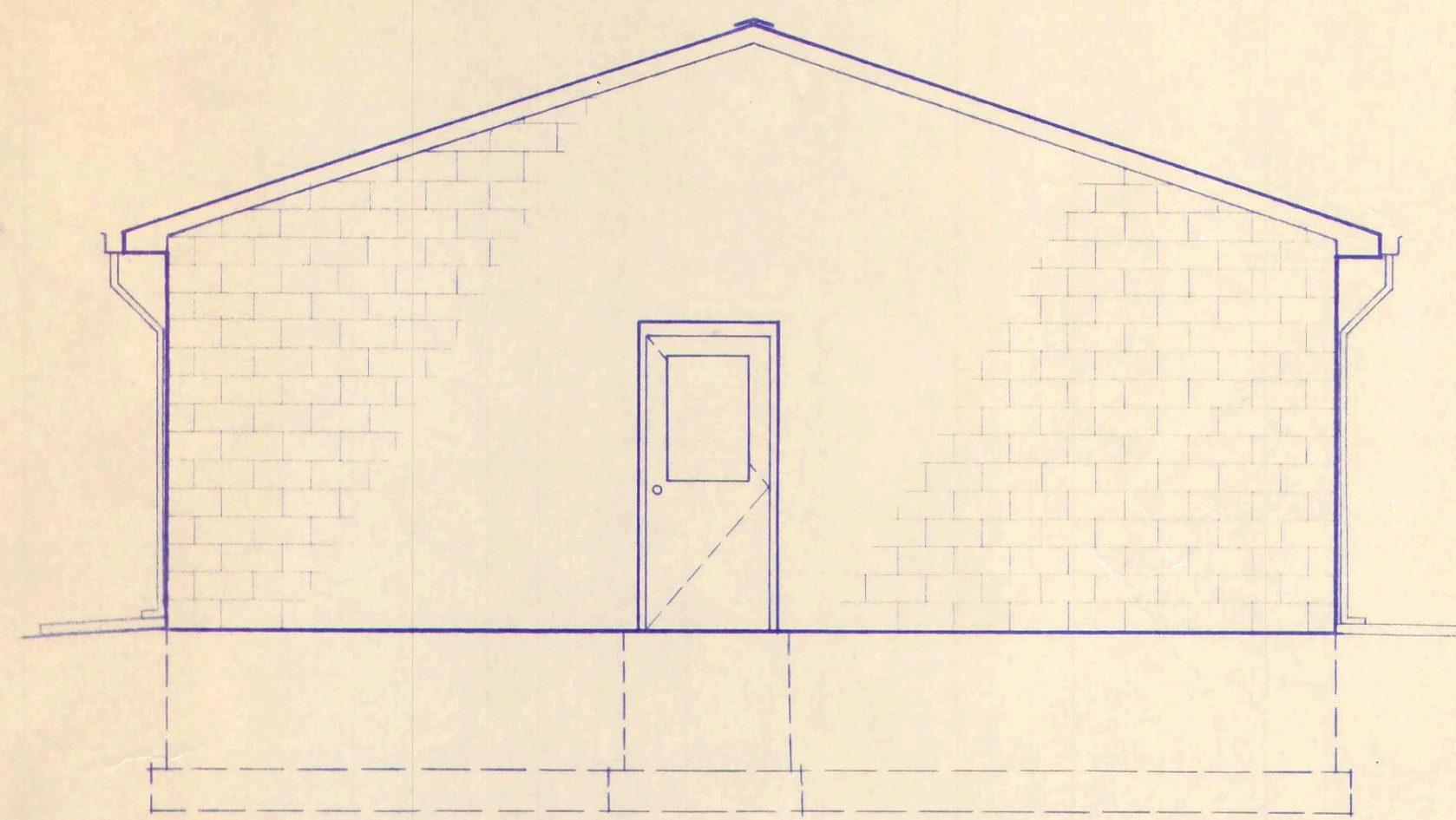


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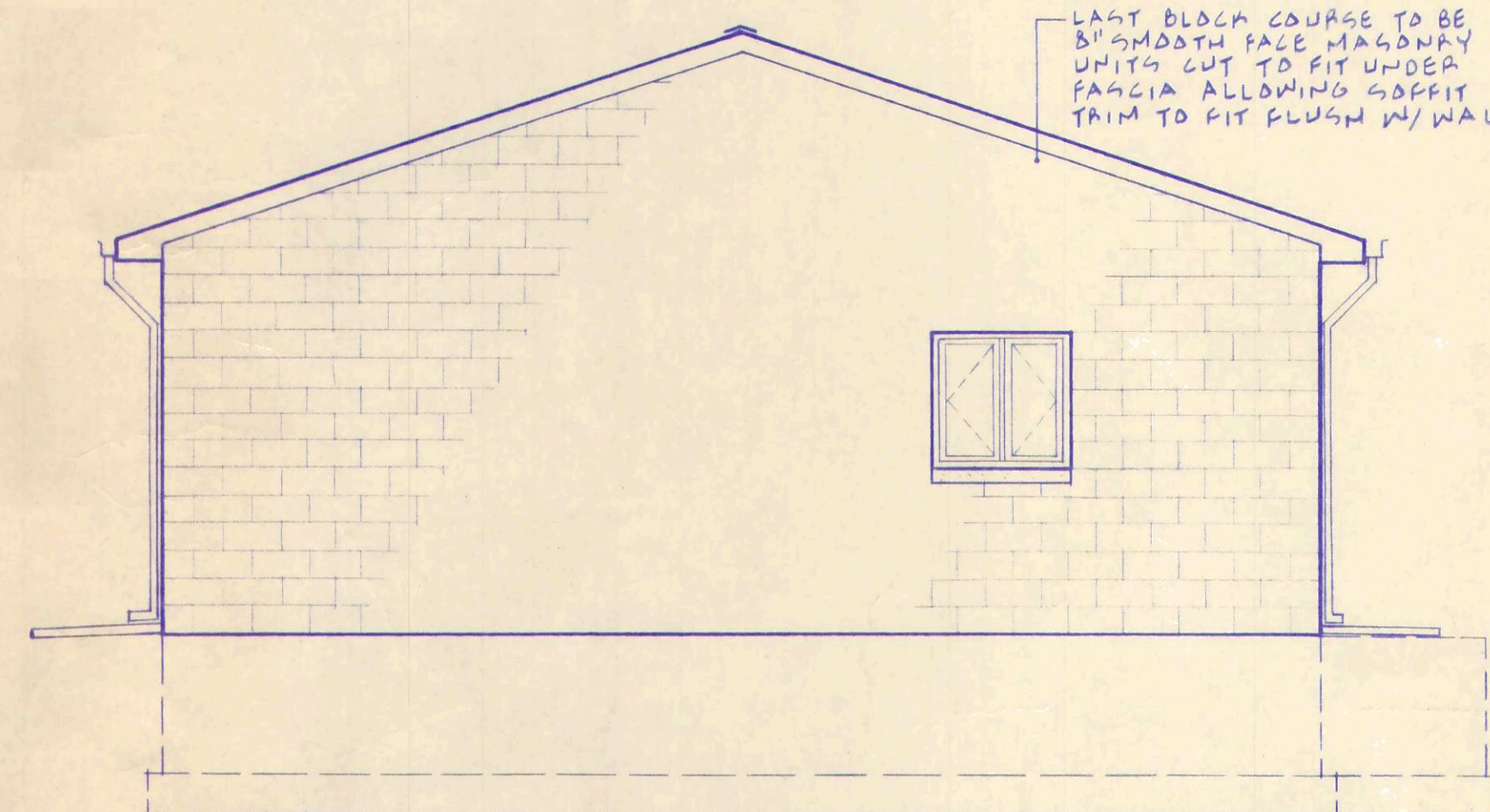
DOOR	DOOR SIZE	DOOR			FRAME		HARDWARE	REMARKS (SEE DOOR & WIND. NOTES)
		TYPE	MAT.	FACE	JAMB	MAT. TYPE		
1	3'0" x 7'0" 1 3/4"	2	HM		HM	A	A, E,	
2	2'2"0" x 7'0" 1 3/8"	3	S.C.		WD.		D,	
3	3'0" x 7'0" 1 3/4"	1	HM		HM	A	I,	
4	2'8" x 7'0" 1 3/4"	1	HM		HM	B	A,	
5	3'0" x 7'0" 1 3/4"	1	HM		HM	A	I,	
6	3'0" x 7'0" 1 3/4"	2	HM		HM	A	A, B, C, E,	
7	3'0" x 7'0" 1 3/4"	2	HM		HM	A	A, B, C, E,	

ROOM NUMBER	ROOM NAME	FLOOR	BASE			WALLS		CEILING		REMARKS
			NO. BASE	4" VINYL	WOOD BASE	PAINTED DRYWALL	PANELLING	PAINTED BLOCK	ACOUSTICAL	
100	LABORATORY									
101	OFFICE									
102	CLOSET									
103	HALL									
104	MECHANICAL									
105	CLOSET									
106	RESTROOM									
107	SHOWER									

• COLORS TO BE SELECTED BY OWNER
• PANELLING TO BE SELECTED BY OWNER

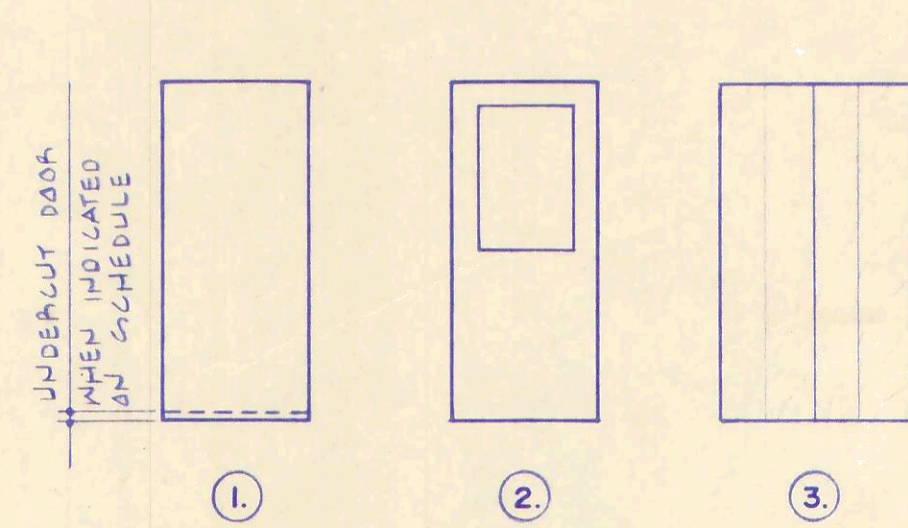


EAST ELEVATION

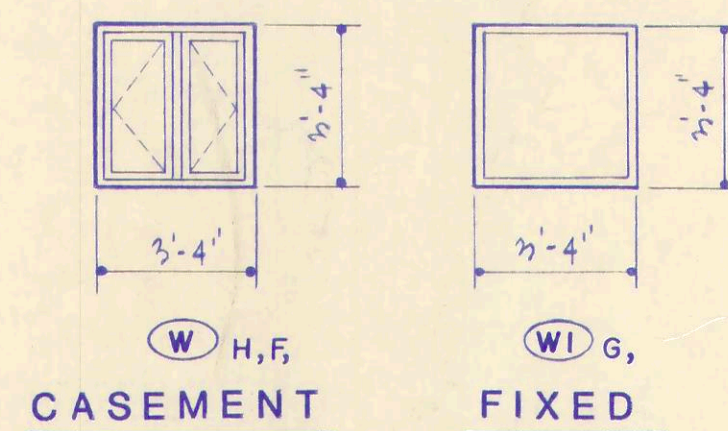


WEST ELEVATION

1/4" = 1'-0"



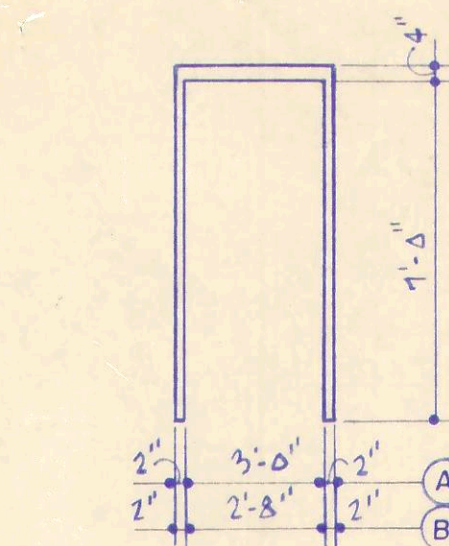
DOOR TYPES



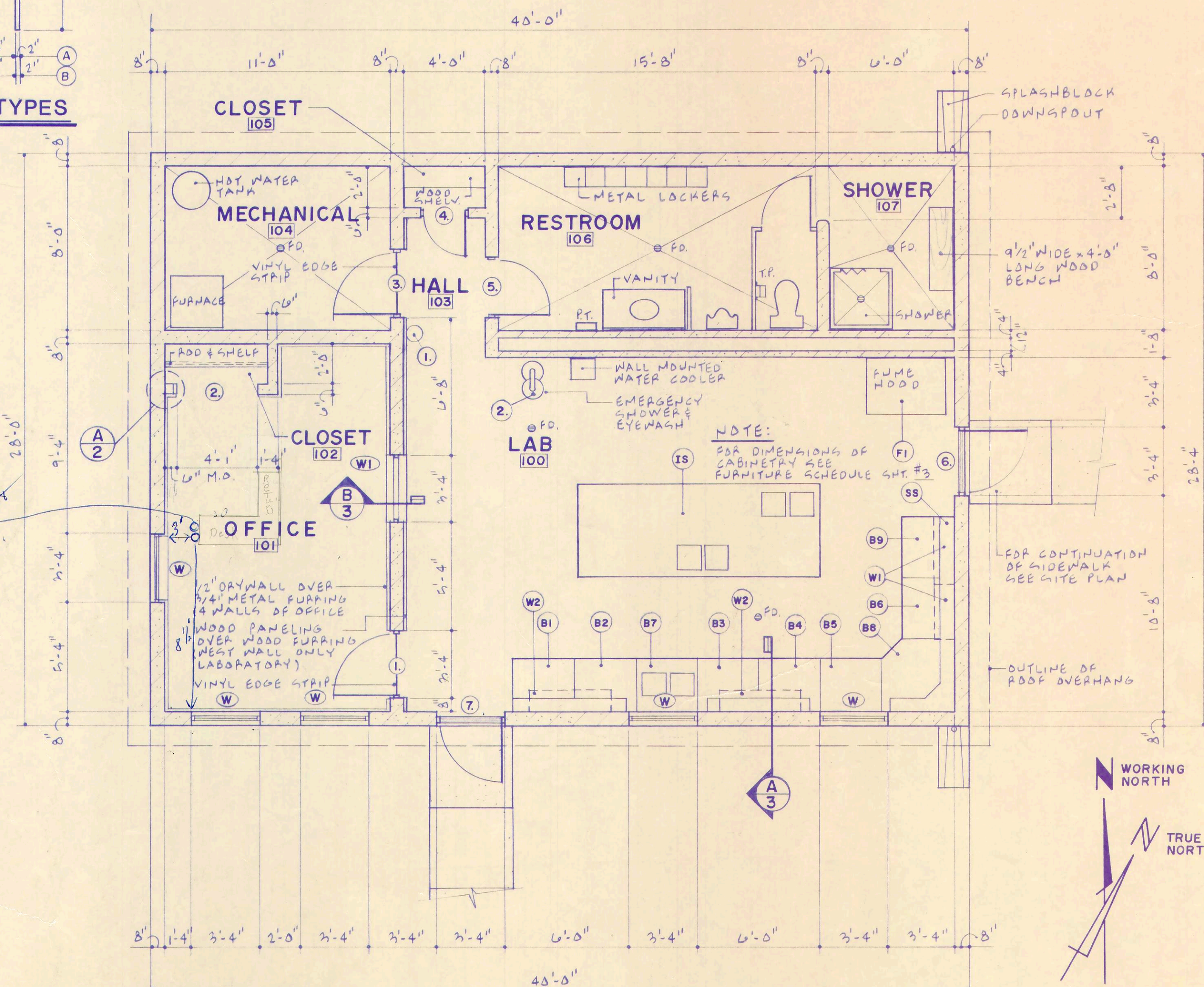
WINDOW TYPES

DOOR & WINDOW NOTES:

- A. LOCKSET AND CLOSURE
- B. FULLY WEATHERSTRIPPED, INSULATED, WITH THRESHOLD
- C. DOOR TO BE EQUIPPED WITH CLEAR GLASS PANE LARGE ENOUGH TO ALLOW FORCED ENTRY IN AN EMERGENCY. DOOR LOCK TO BE PART OF MASTER LOCKING SYSTEM BUT ACCESSIBLE TO ONLY QUALIFIED PERSONNEL.
- D. BIFOLD SOLID CORE WOOD
- E. 24" x 36" LITE
- F. CASEMENT WINDOW, BRONZE, FINISH WITH 1" INSULATING GLASS
- G. FIXED LITE, HOLLOW METAL FRAME, COLOR TO MATCH INTERIOR DOORS
- H. PRECAST CONCRETE SILL
- I. UNDERCUT DOOR (1")

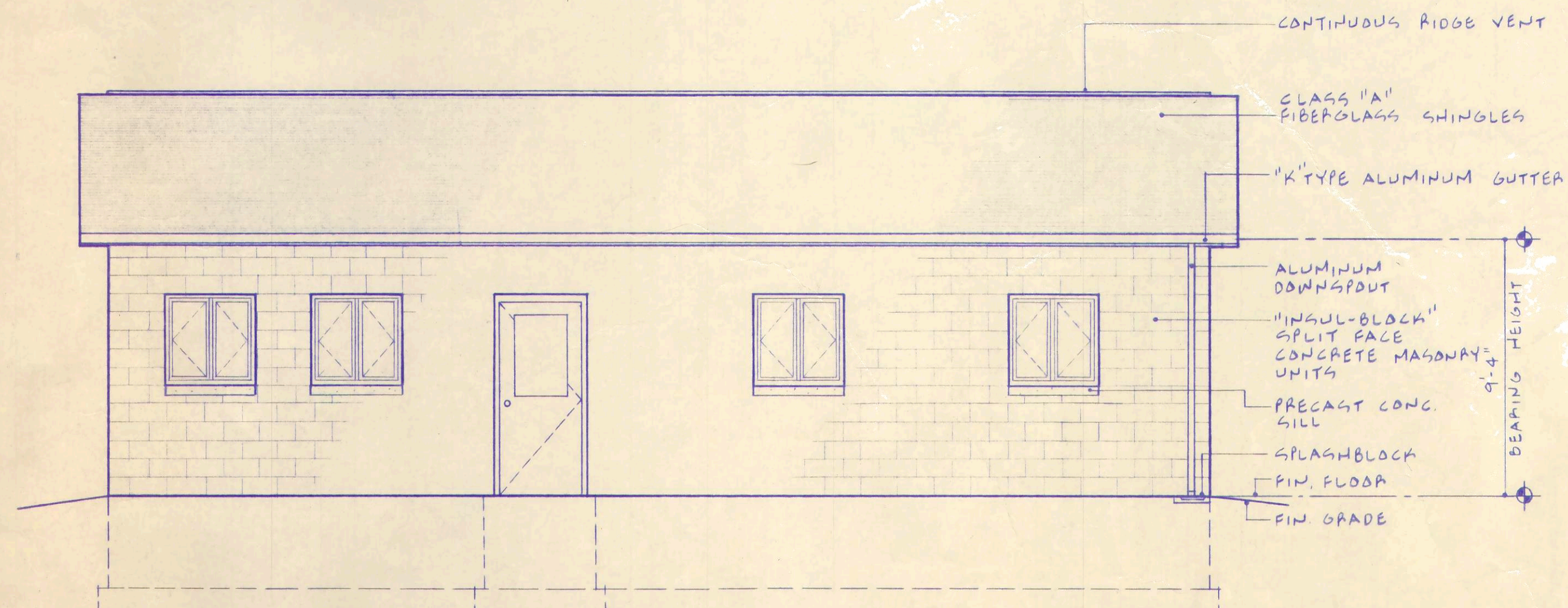
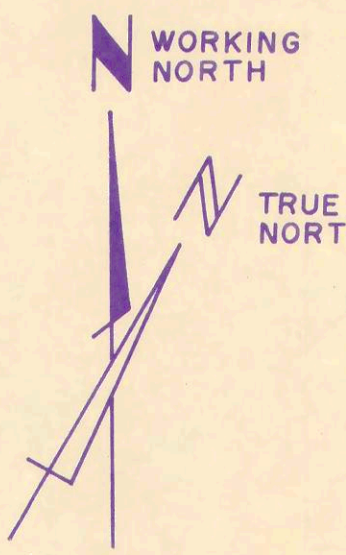


FRAME TYPES

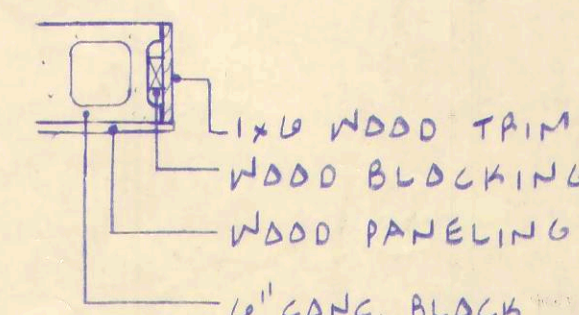


FLOOR PLAN

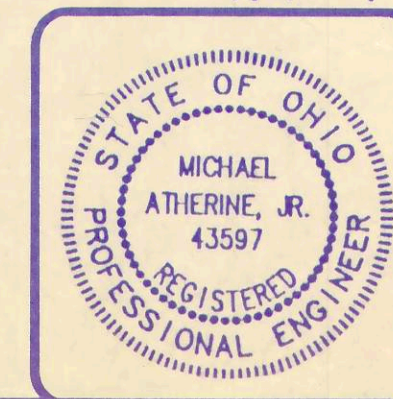
1/4" = 1'-0"



SOUTH ELEVATION



DETAIL A
3/4" = 1'-0"



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LABORATORY BUILDING

FURNITURE & CABINET SCHEDULE

MARK	WIDTH	CABINET	WORKTOP		DOOR		REMARKS	QUANTITY
			NO.	MATERIAL	NO.	MATERIAL		
B1	35 1/4"	B2666					BASE CABINET	1
B2	35 1/4"	B2670					BASE CABINET	1
B3	35 1/4"	B2621					BASE CABINET	1
B4	35 1/4"	B2669					BASE CABINET	1
B5	35 1/4"	B2614					BASE CABINET	1
B6	35 1/4"	B2624					BASE CABINET	1
B7	35 1/4"	B2690					BASE CABINET (SINK BASE)	1
B8	32"	B2102					BASE CABINET (W/LAZY SUSAN) (CORNER CABINET)	1
B9	35 1/4"	B2601					BASE CABINET (ACID STORAGE) (W/RESISTANT GLASS-REINFORCED CEMENT INTERIOR (CONTAINS NO ASBESTOS), & VENTED DOORS)	1
SS	8"						SERVICE SHELF (VERIFY W/MANUFACTURER)	24 L.F.
IS	55"	11'-9" LONG					7 CABINET ISLAND ASSEMBLY W/2 SINKS AS PER PLAN	1
W1	35 1/4"	P.L.					WALL CASE (GLAZED-HINGED) (12" DEEP)	2
W2	47 1/4"	P.L.					WALL CASE (GLAZED-HINGED) (12" DEEP)	2
1	-						10-LB. FIRE EXTINGUISHER	1
F1	47"						FUME HOOD W/EXTERNALLY MOUNTED BLOWER	1
2	-						SAFETY STATION (DELUGE SHOWER & EYE/FACE WASH)	1

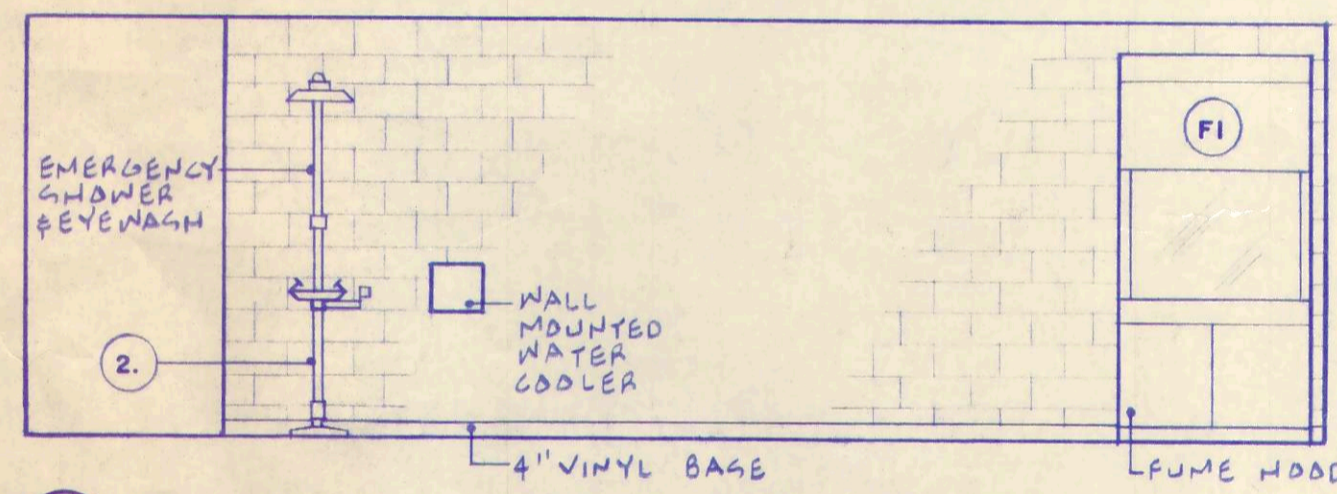
NUMBERS OF FISHER SCIENTIFIC "ESSEX SERIES" (HIGH-PRESSURE PLASTIC LAMINATE BASE CABINETS) 1983 CATALOG ARE LISTED TO INDICATE TYPE OF QUALITY, COMPARABLE EQUIPMENT WILL BE ACCEPTABLE. COLORS TO BE SELECTED BY OWNER.

COUNTERTOPS TO BE CUT BY MANUFACTURER TO RECEIVE ONE EPOXY DOUBLE BOWL SINK, CONSISTING OF TWO 14" x 14" x 8" SINKS, ONE MIXING FAUCET AND TWO DRAINS AS REQUIRED.

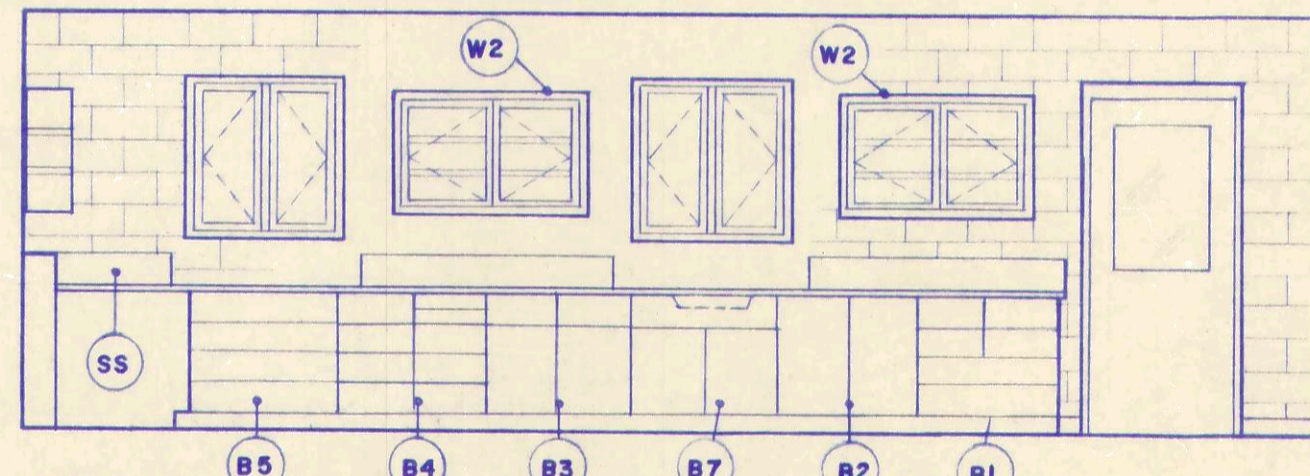
FOR LOCATION OF GAS COCKS, ELECTRICAL RECEPTACLES AND INCIDENTALS, SEE MECHANICAL AND ELECTRICAL PLANS.

P.L. - INDICATES PRESSURE LAMINATE

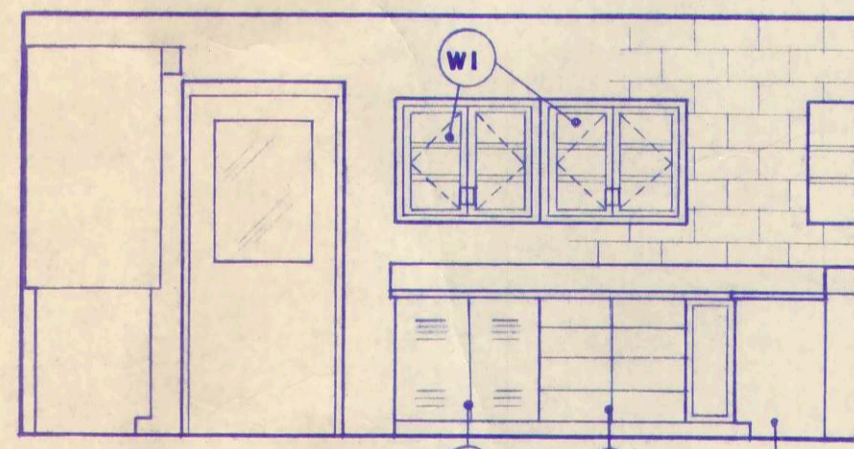
1/4" SCALE INTERIOR ELEVATIONS



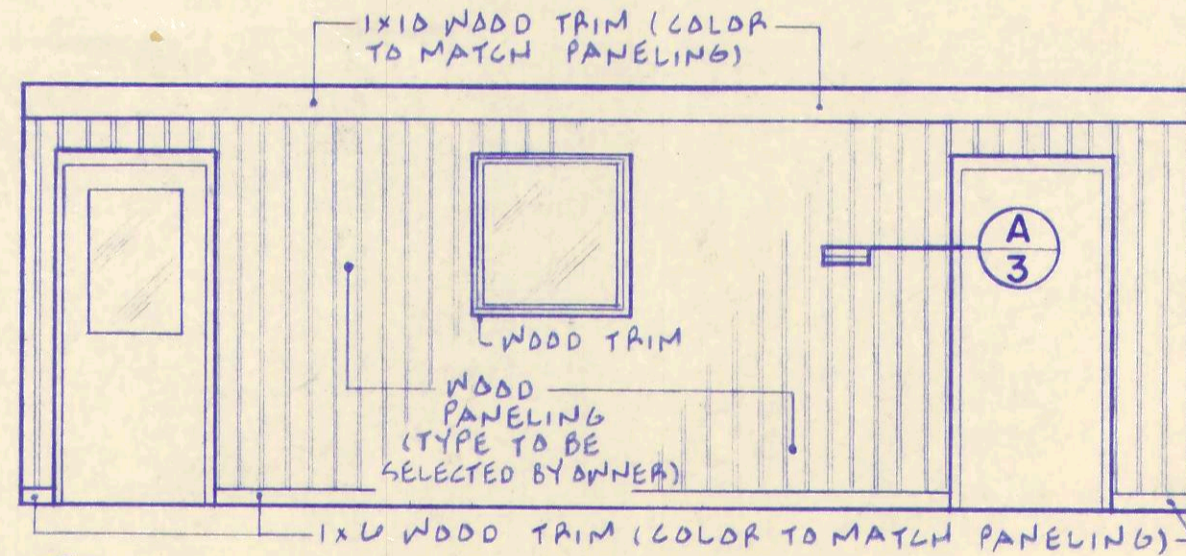
A LAB 100- NORTH ELEVATION



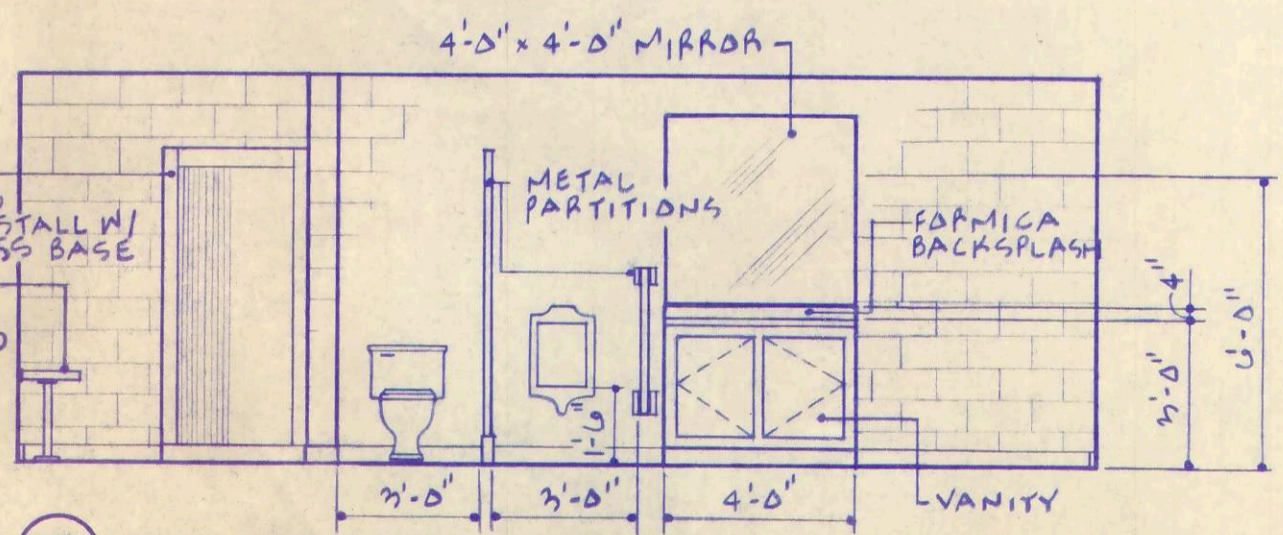
B LAB 100- SOUTH ELEVATION



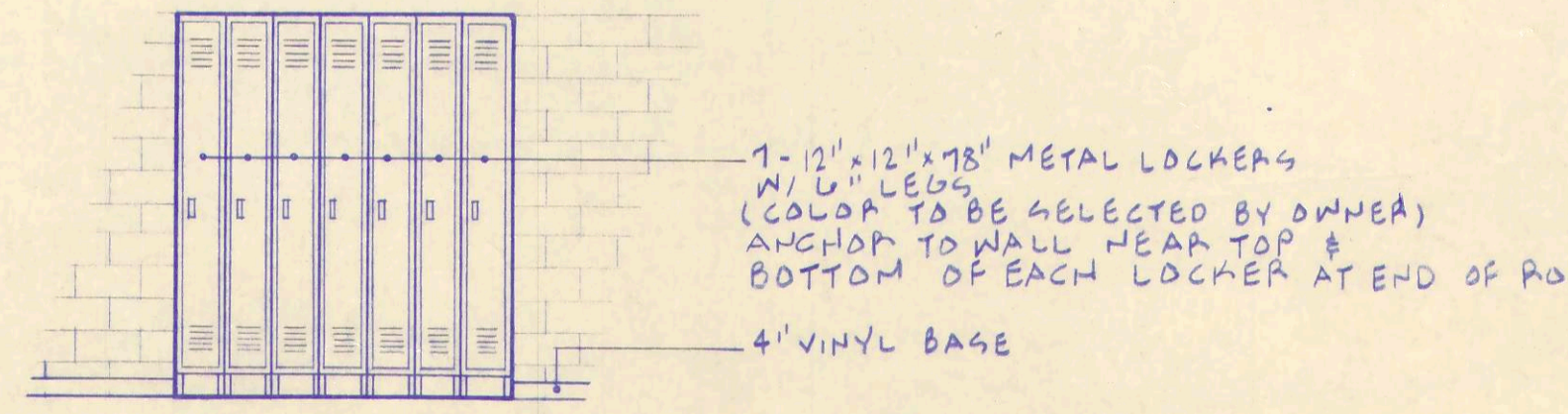
C LAB 100- EAST ELEVATION



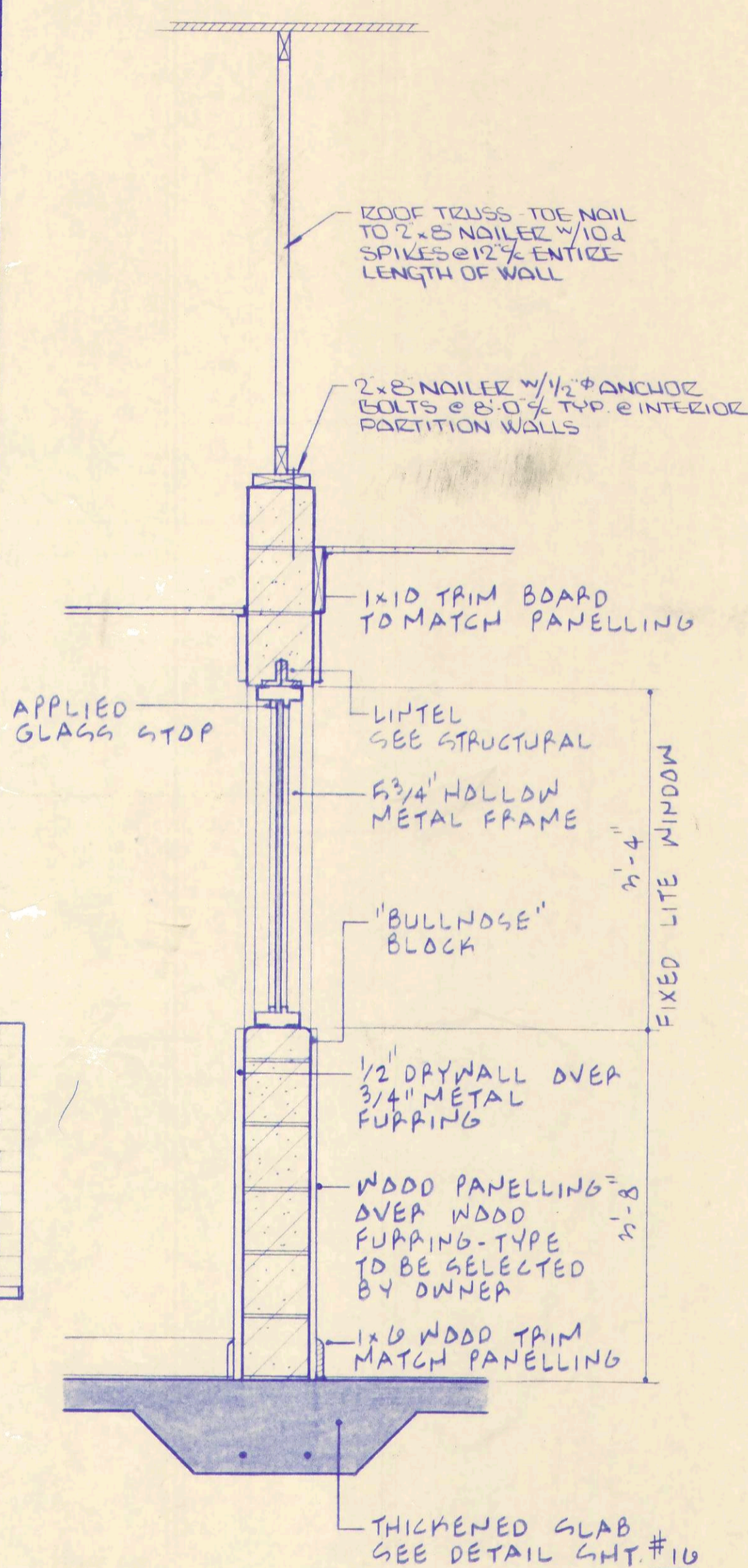
D LAB 100- WEST ELEVATION



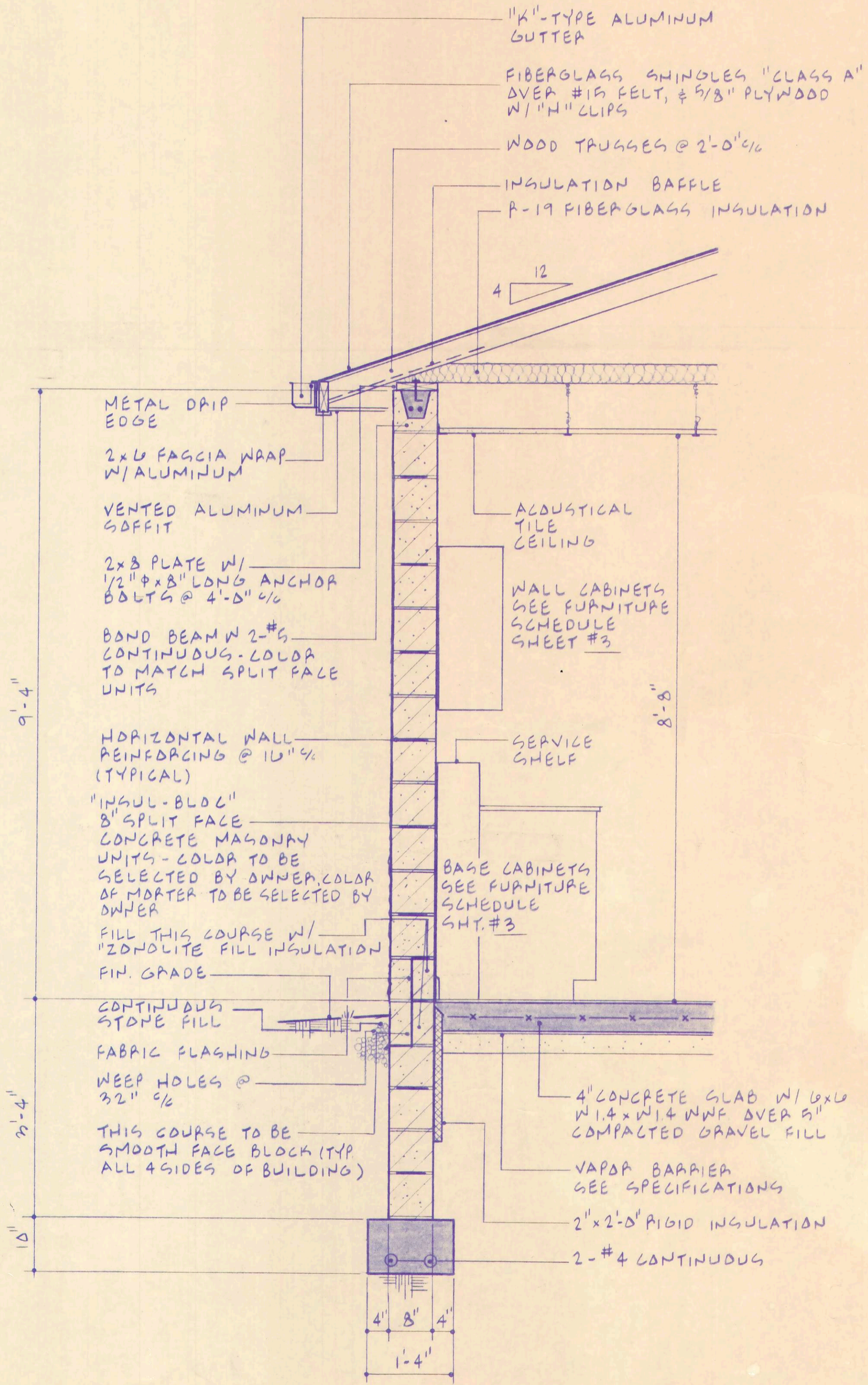
E RESTROOM 106- SOUTH ELEVATION



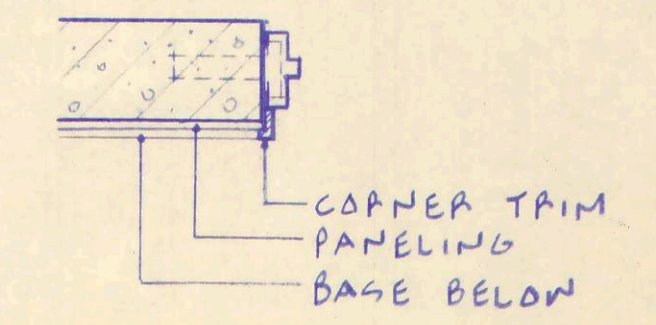
F RESTROOM 106- NORTH ELEVATION



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



SECTION A
3/4" - 1'-0"

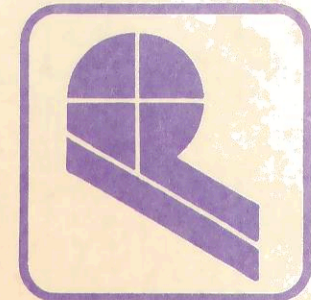


DETAIL A
3/4" - 1'-0"



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LABORATORY BUILDING



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ARCHITECTS
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PLANNERS

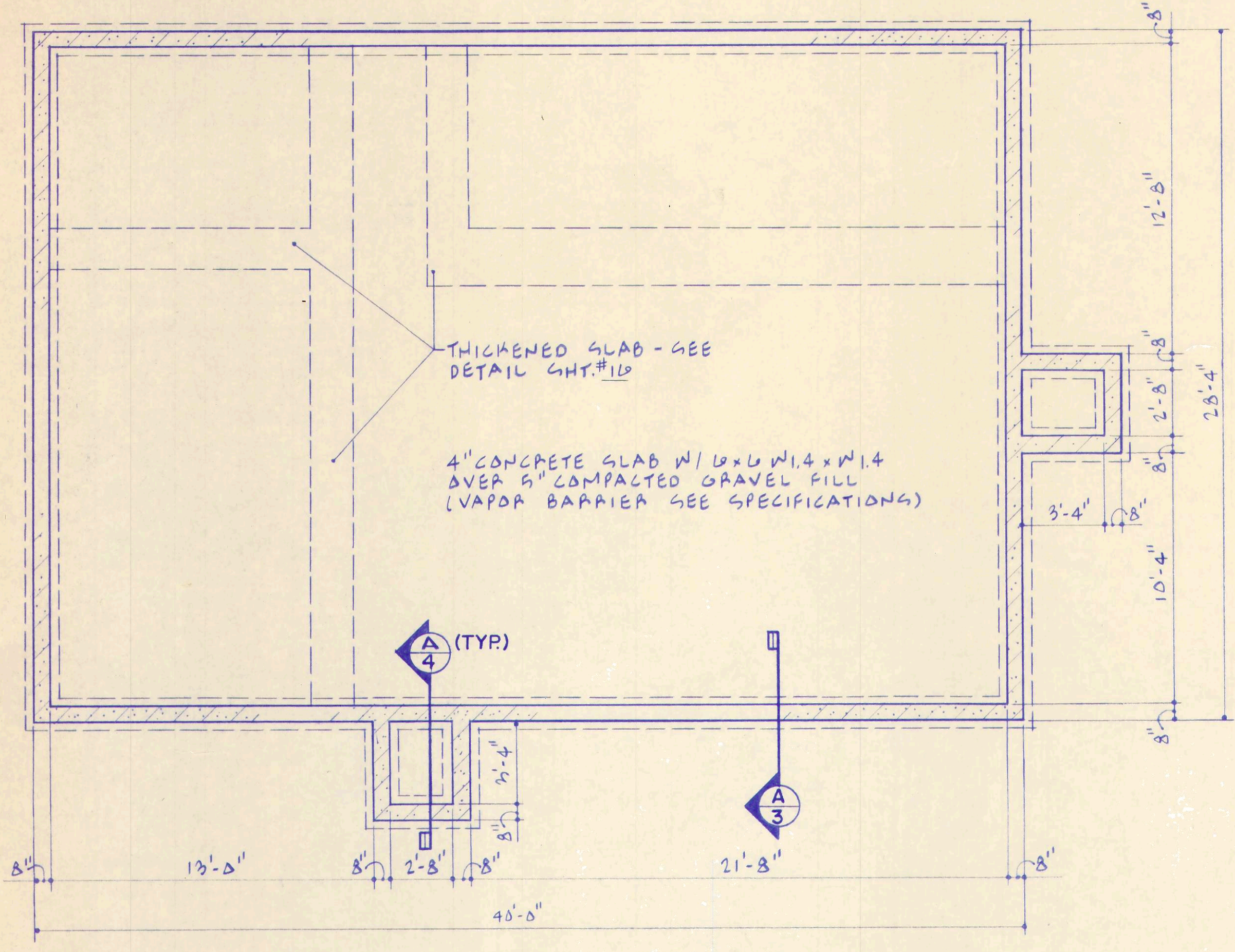
**WASTEWATER TREATMENT
PLANT IMPROVEMENTS
OAK HARBOR, OHIO**

CHECKED BY	DATE
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REVISION	

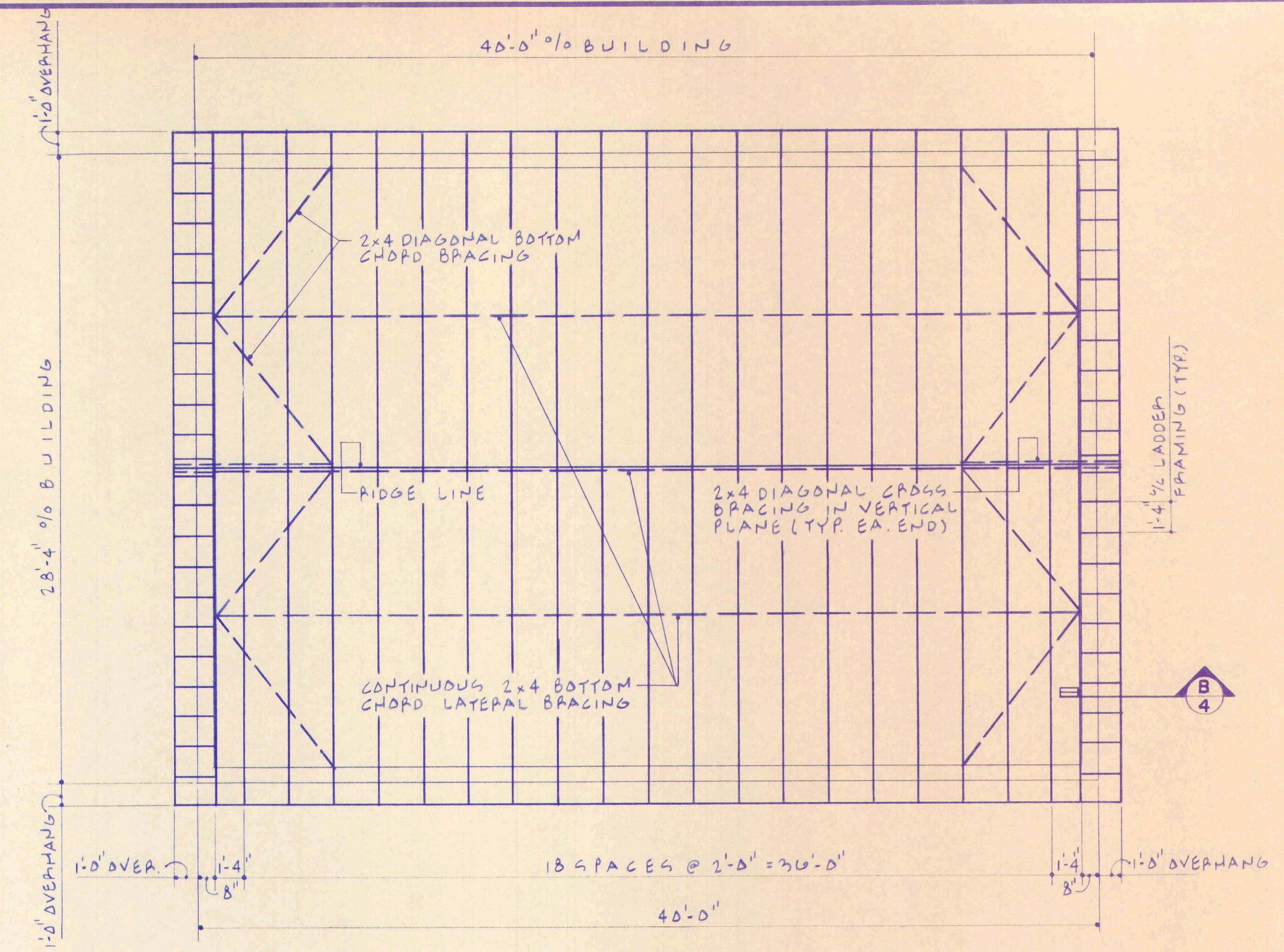
3 / **18**
JOB NUMBER
1590-008



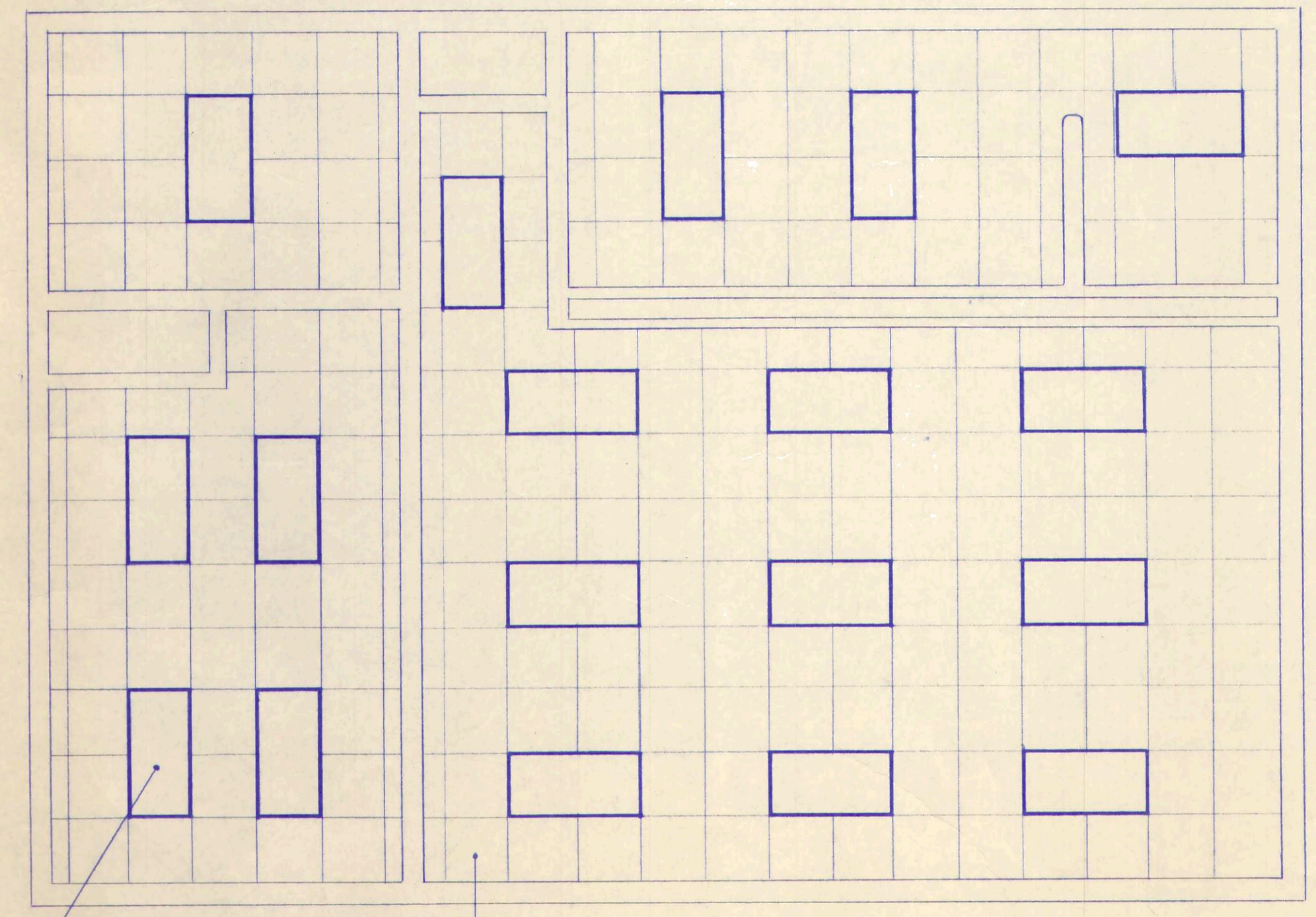
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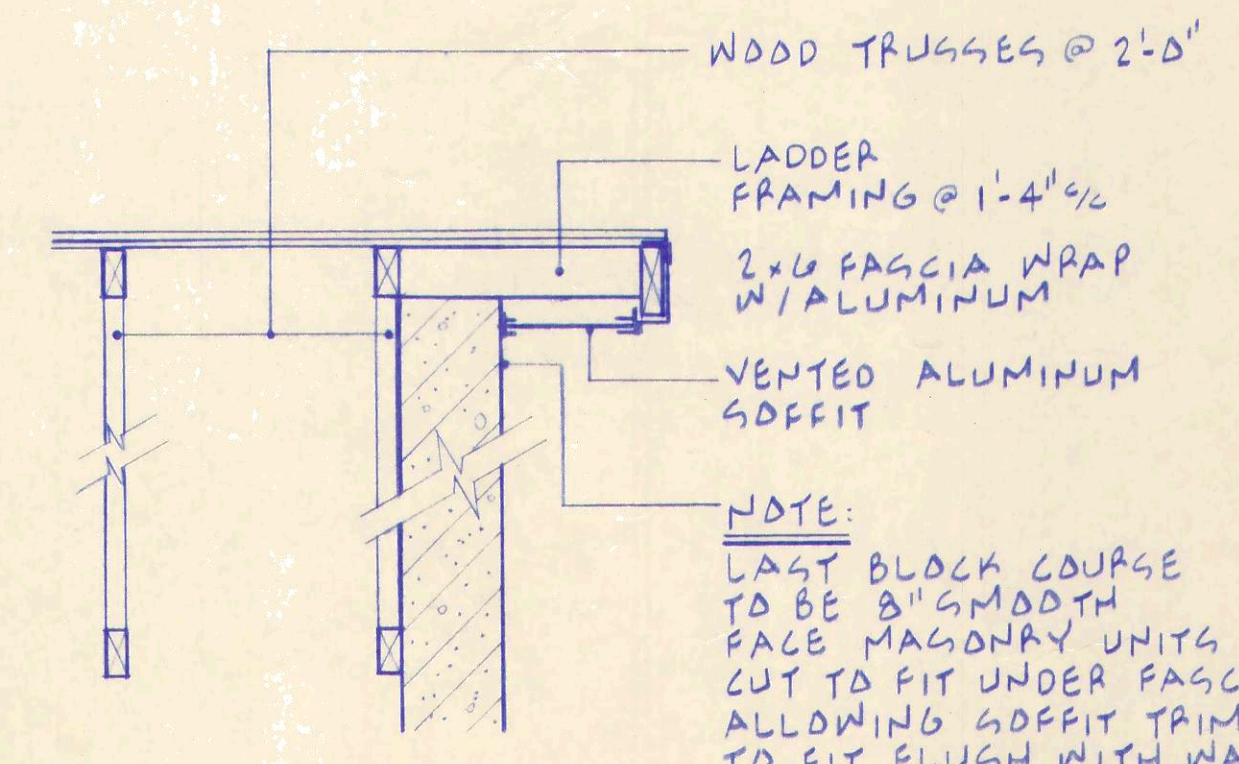
FOUNDATION PLAN
1/4" = 1'-0"



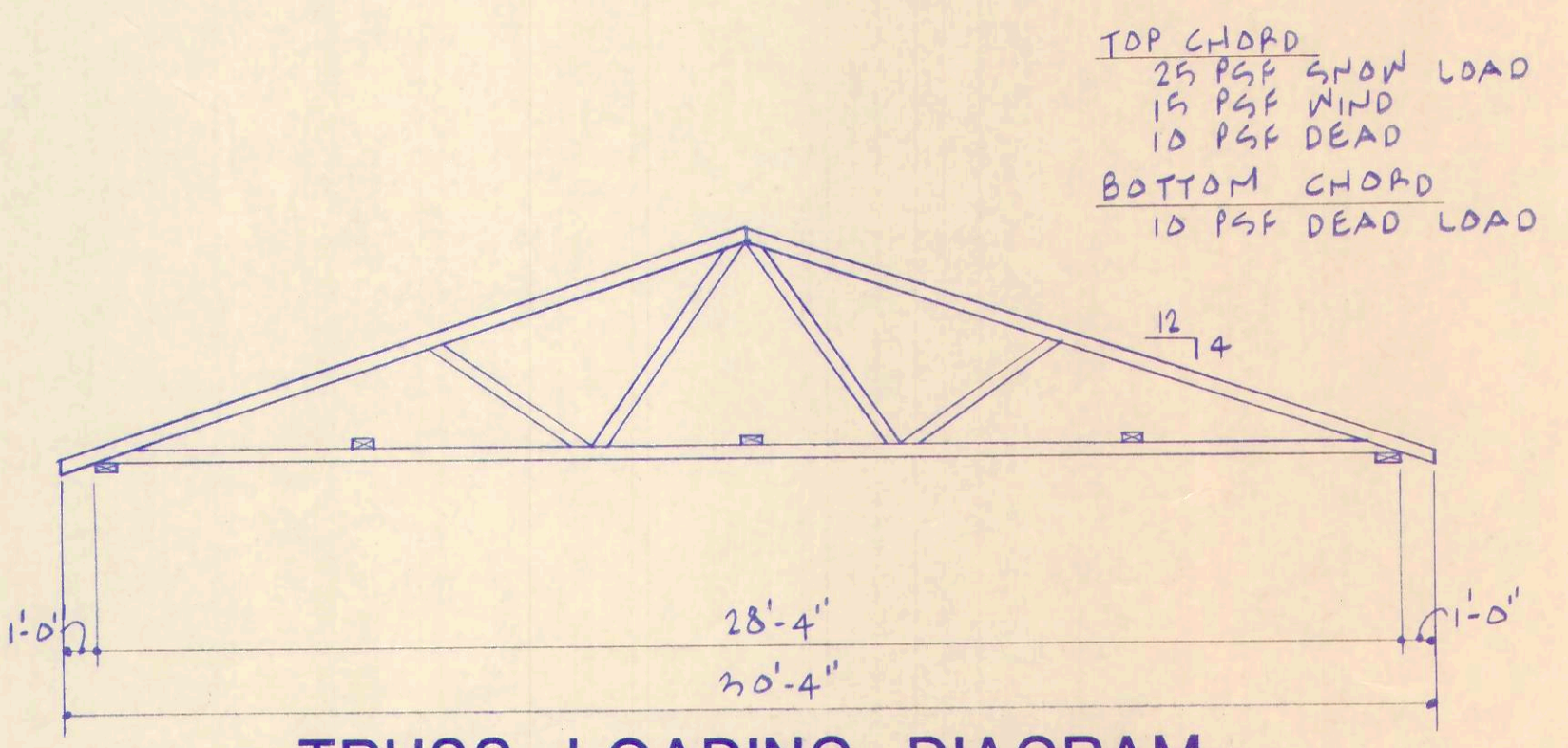
ROOF FRAMING PLAN
1/4" = 1'-0"



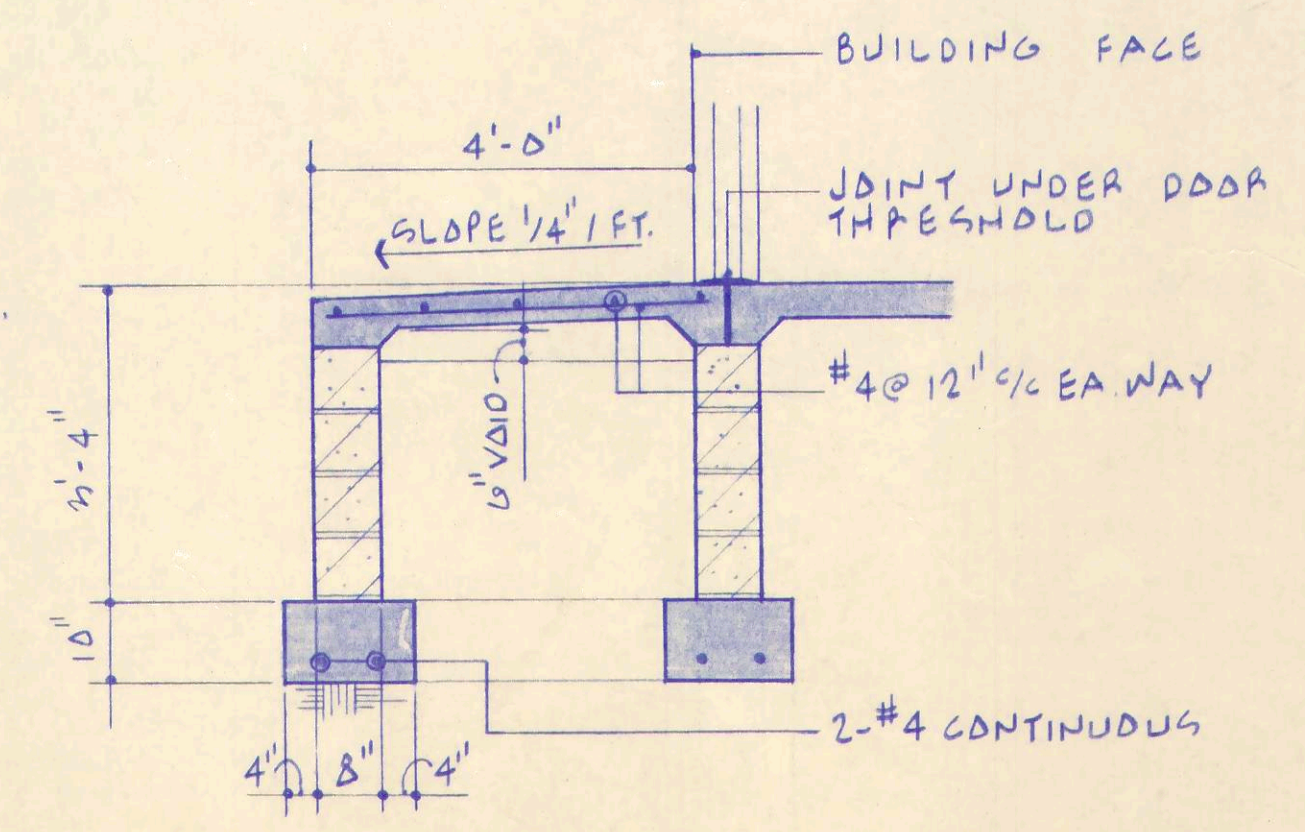
REFLECTED CEILING PLAN
1/4" = 1'-0"



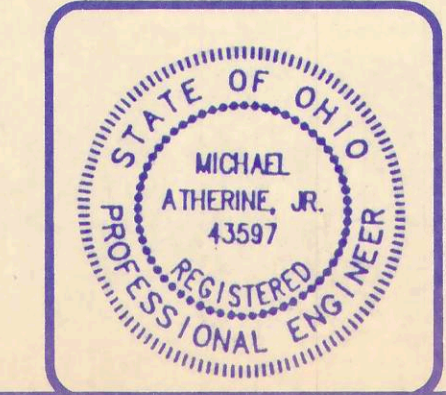
SECTION B
3/4" = 1'-0"



TRUSS LOADING DIAGRAM
N.T.S.



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



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LABORATORY BUILDING

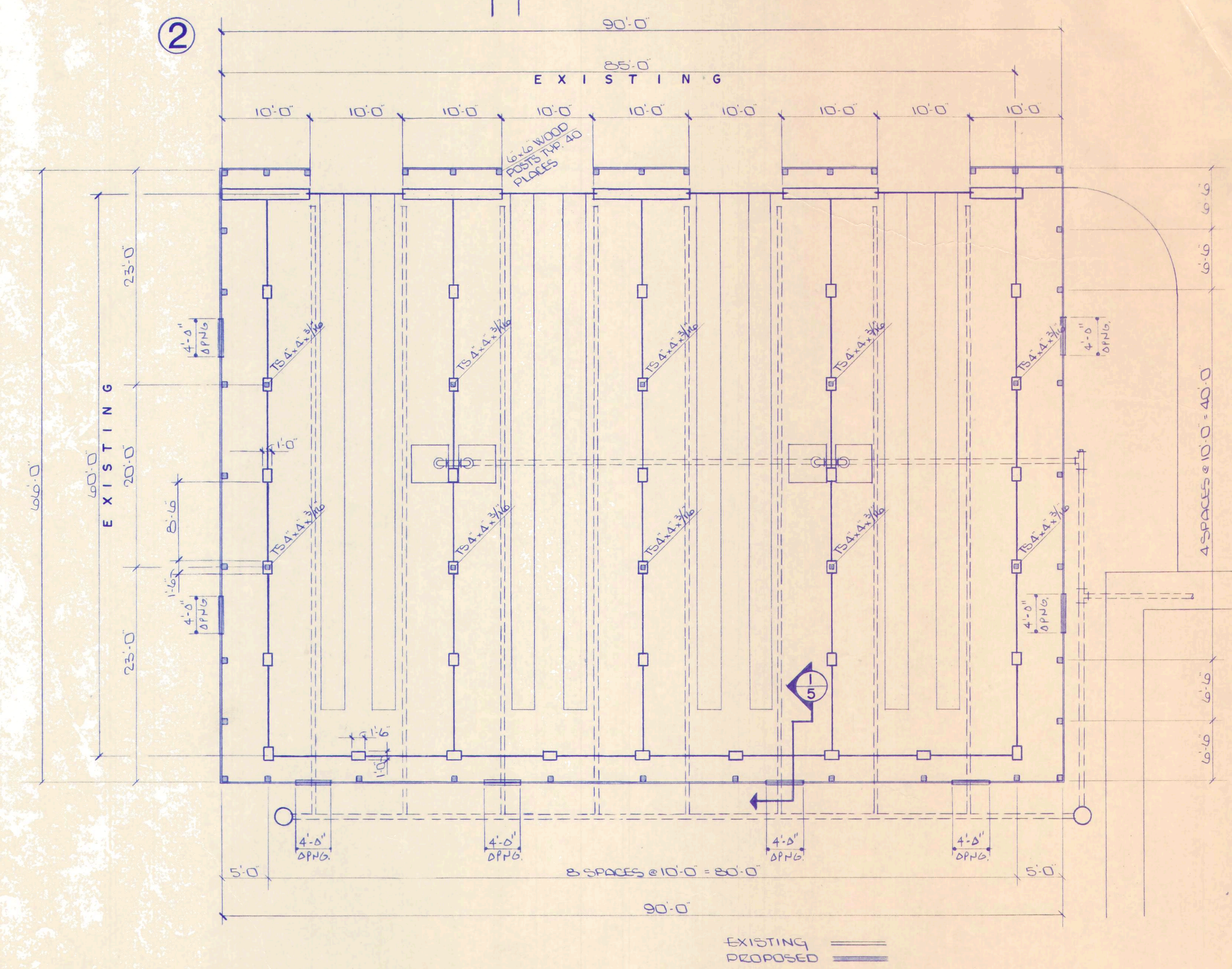
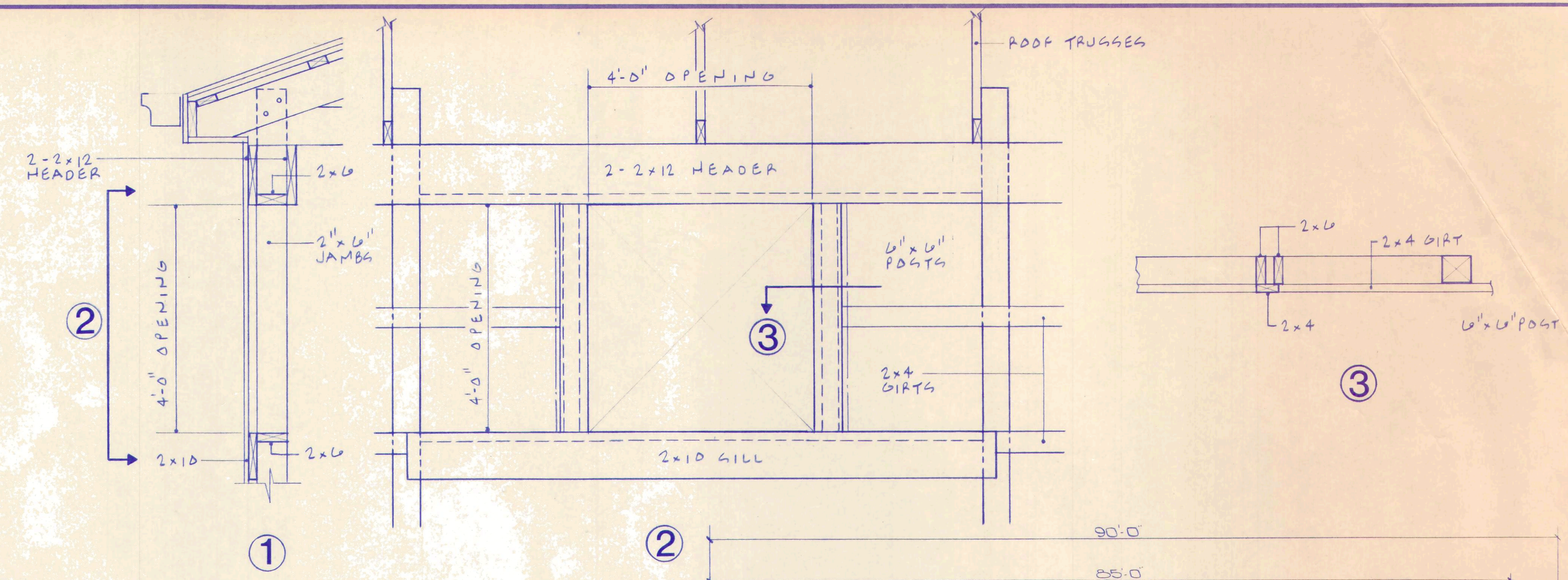
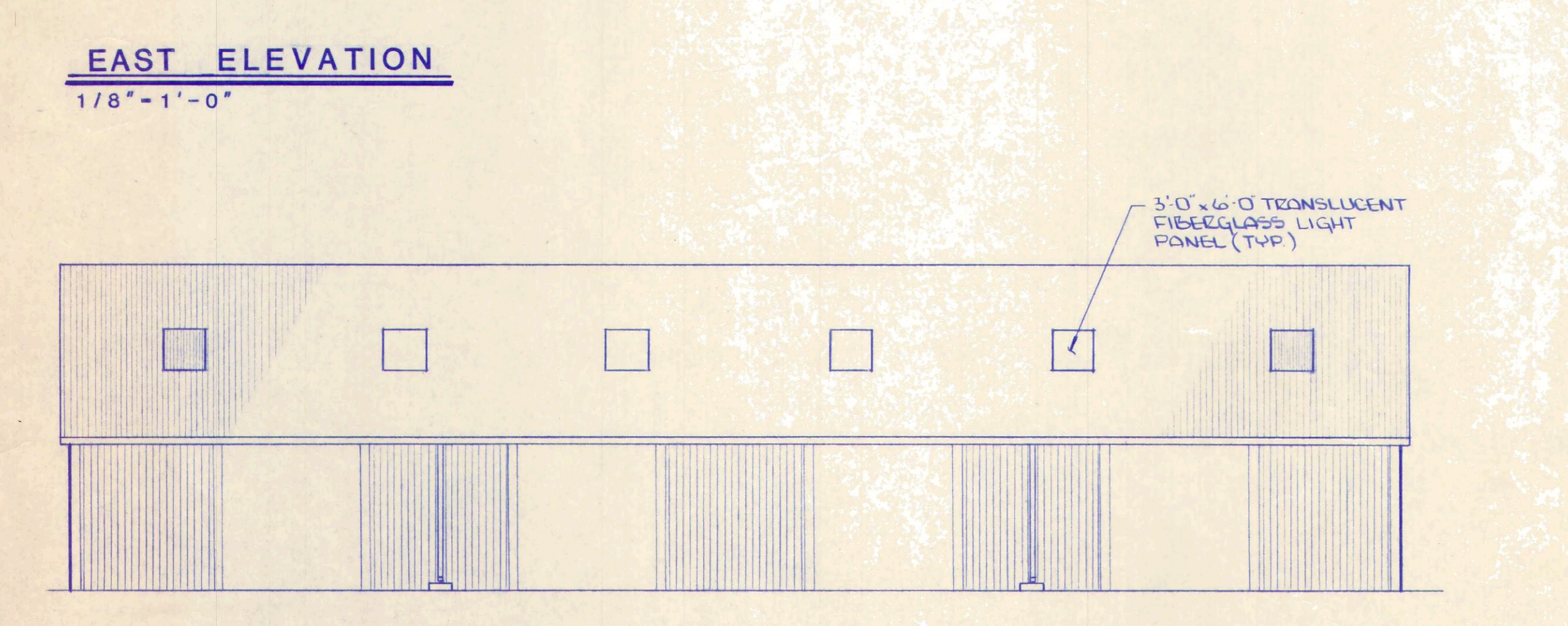
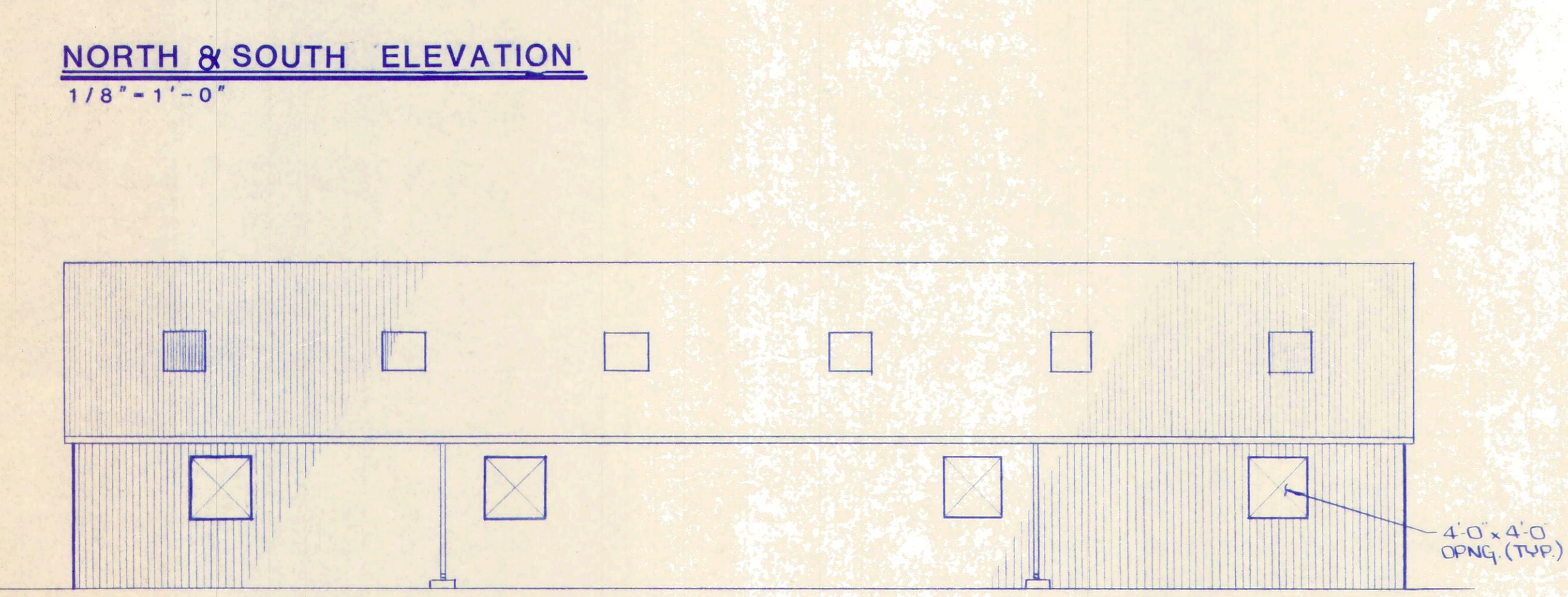
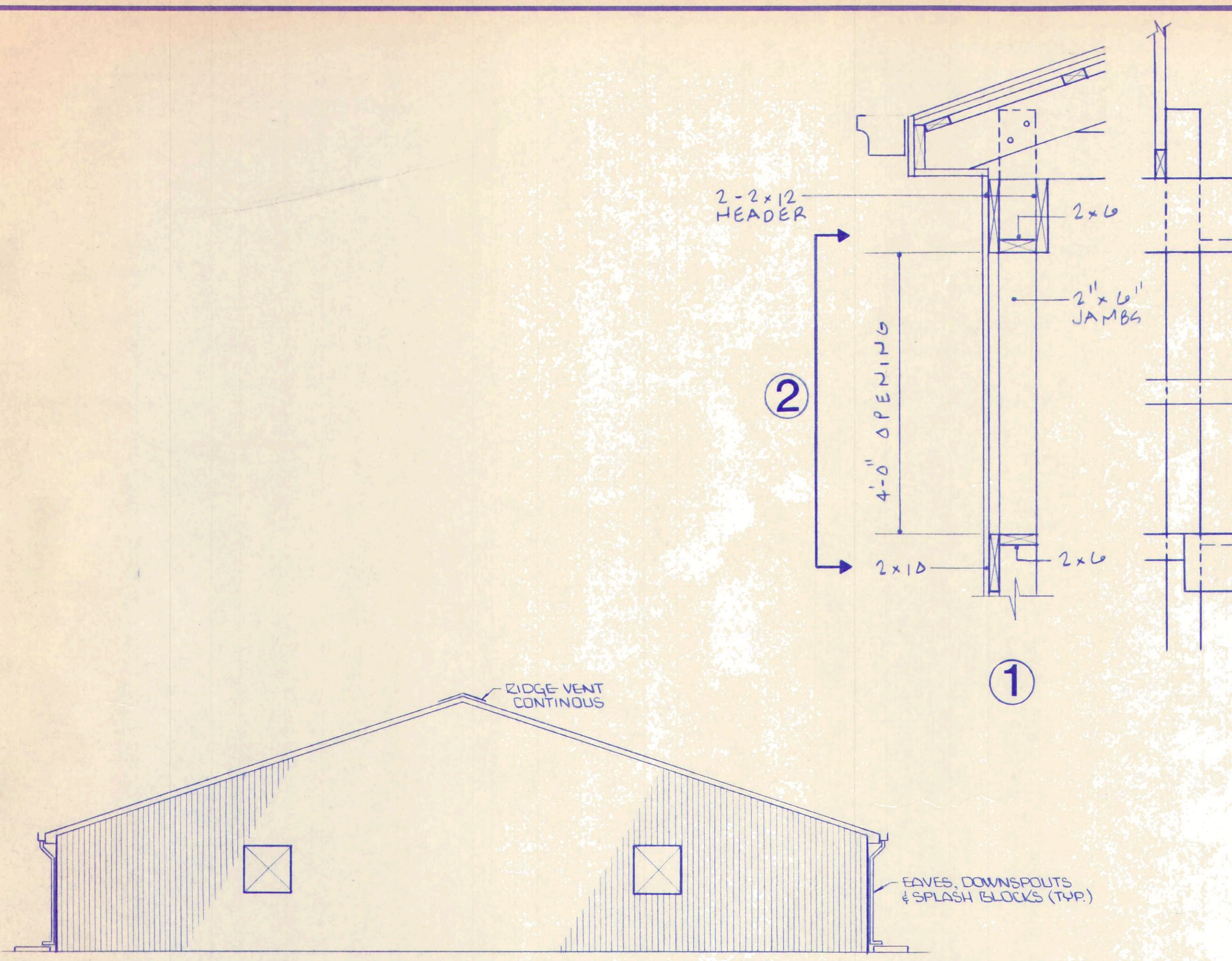


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**WASTEWATER TREATMENT
PLANT IMPROVEMENTS
OAK HARBOR, OHIO**

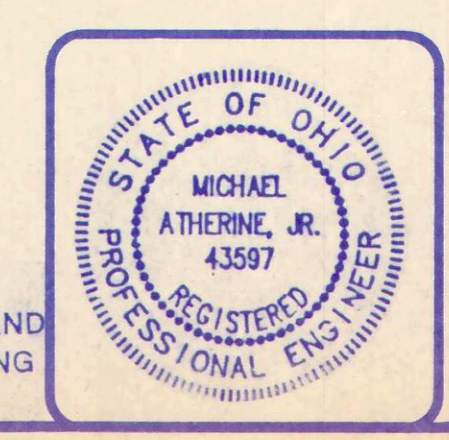
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JOB NUMBER
1590-008



PLAN - EXISTING SLUDGE DRYING BEDS & NEW SHELTER
1/8" = 1'-0"

CONTRACTOR NOTE:
VERIFY EXISTING CONDITIONS AND
DIMENSIONS BEFORE PROCEEDING
WITH WORK



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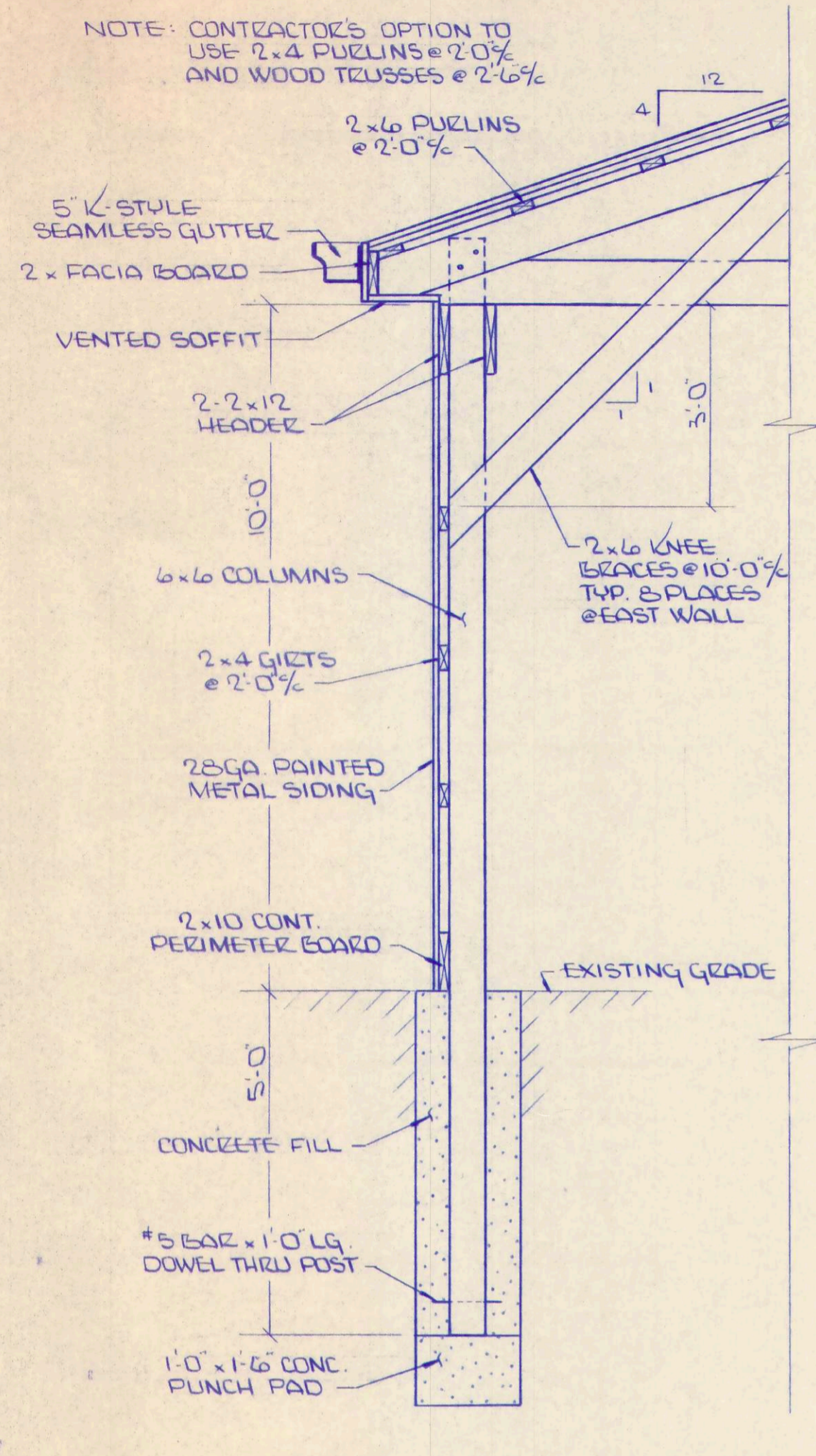
SLUDGE BED SHELTER



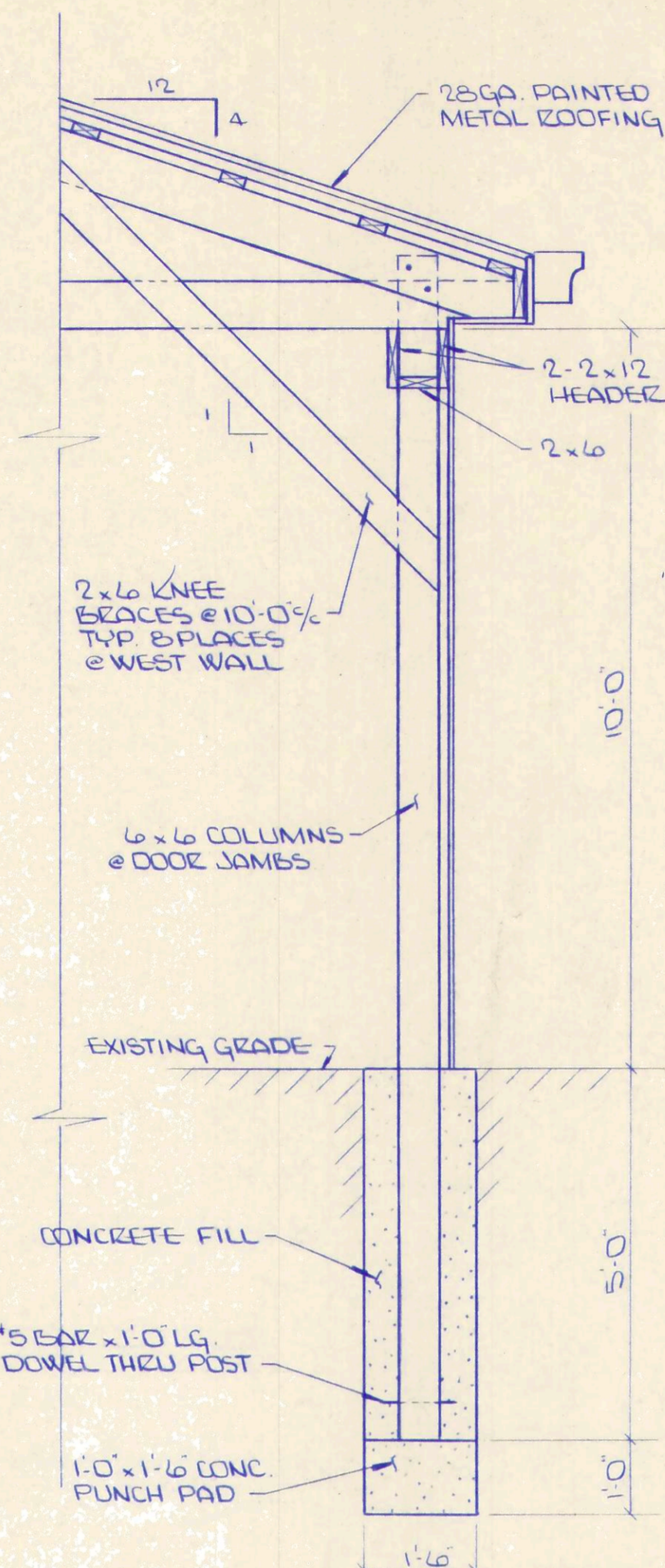
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GENERAL NOTES

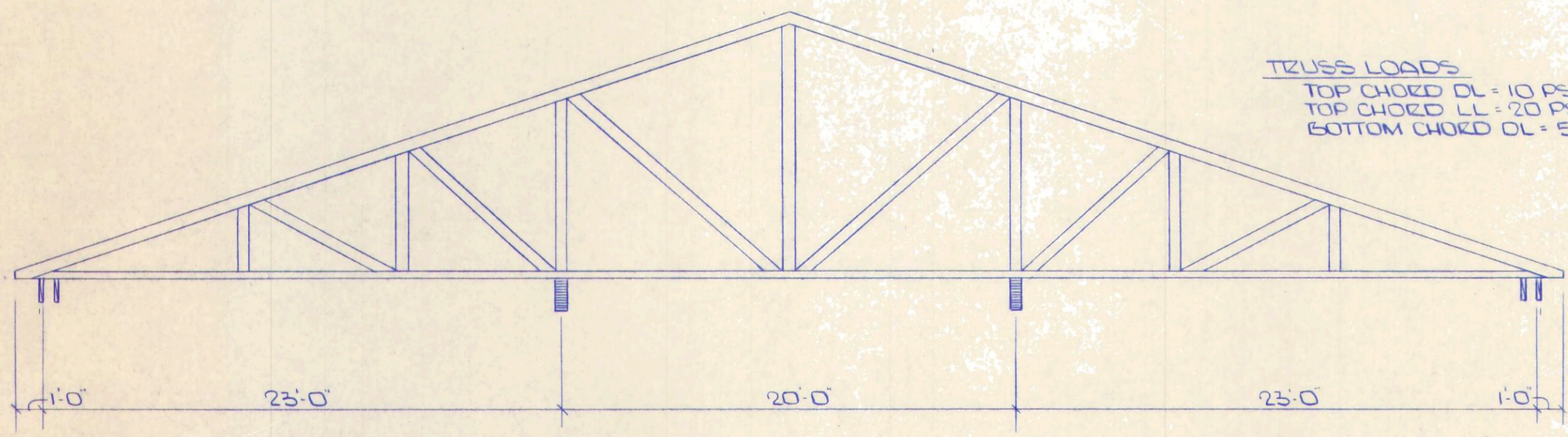
- All wood construction shall conform to the latest edition of the National Design Specification for Wood Construction.
- All wood posts and other lumber used for framing shall be Southern Pine No. 2 Grade or better, stress graded for not less than 1200 PSI in flexure.
- Lumber and wood framing shall not have a moisture content greater than 19% by weight when placed into the construction.
- All wood posts shall be pressure treated with CCA wood preservative to a minimum net retention of 0.60 pounds per cubic foot and all other treated lumber to a minimum net retention of 0.40 pounds per cubic foot.
- All fasteners coming in contact with treated lumber shall be hot dipped galvanized.
- Roof trusses shall be designed and fabricated in accordance with the latest Truss Plate Institute specifications.
- Foundations shall bear on undisturbed soil. Providing a safe bearing capacity of not less than 3000 psf.
- Fill and backfill under all slabs, pavings and walks, etc. shall be made with coarse sand, gravel, or crushed stone, compacted to not less than 100% of maximum dry density per ASTM D D-698.
- All glue laminated beams shall be designed and fabricated for the following allowable stresses:
Bending Stress = 2,400 psi
Shear Stress = 165 psi
Modulus of Elasticity = 1,800,000 psi



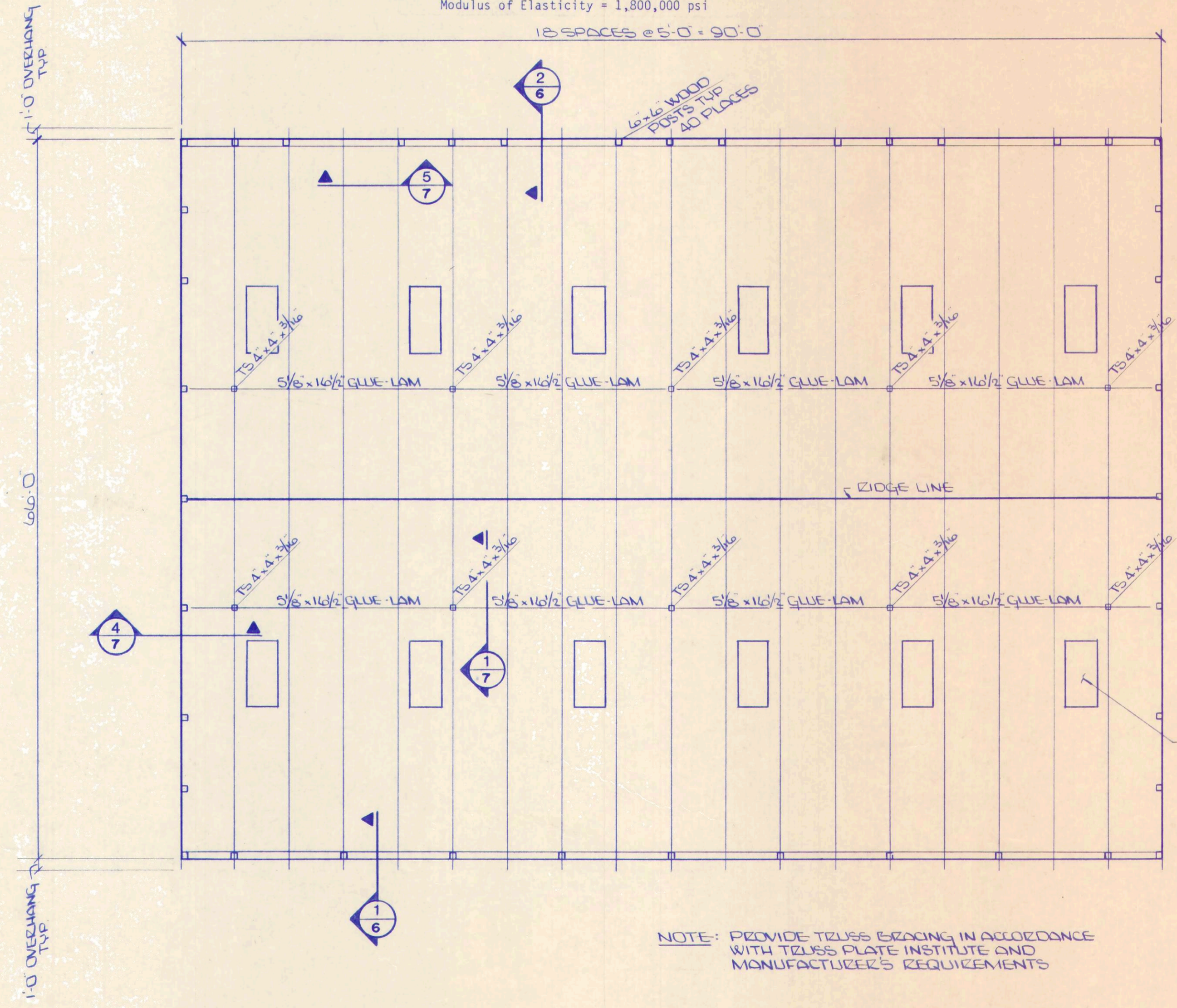
SECTION 1
1/2" = 1'-0"



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



TRUSS LOADING DIAGRAM
3/16" = 1'-0"



ROOF FRAMING PLAN
1/8" = 1'-0"



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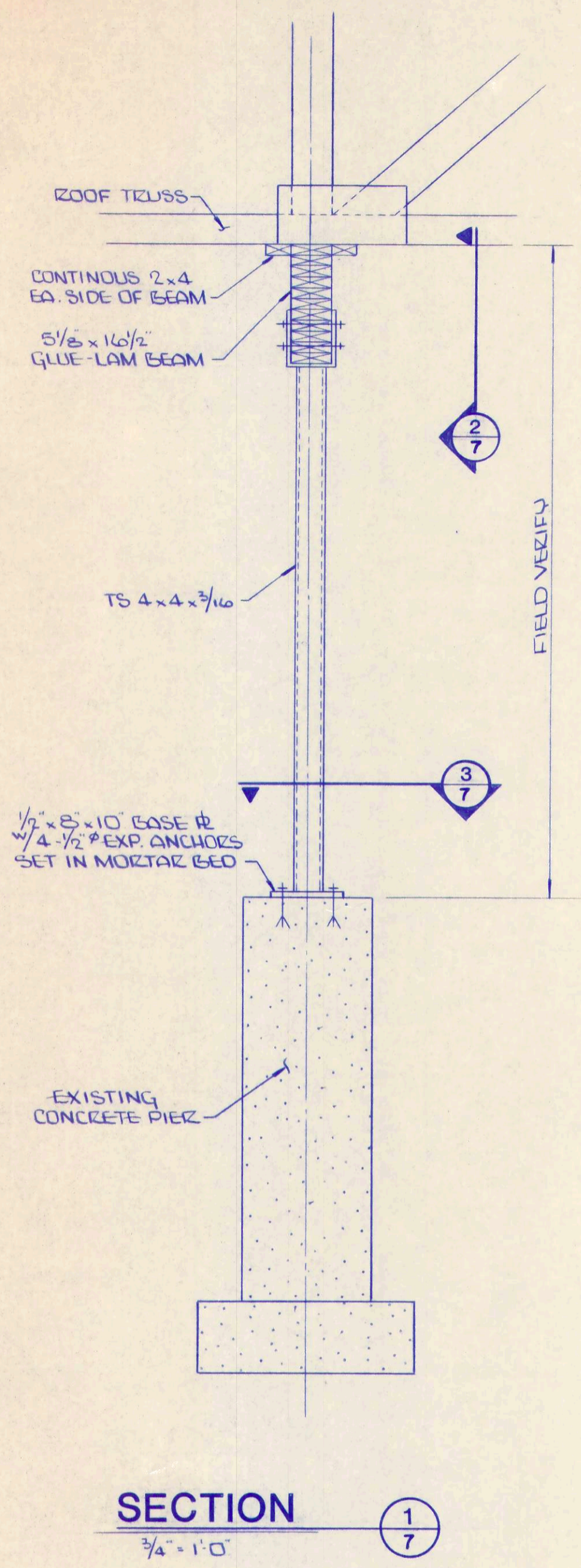


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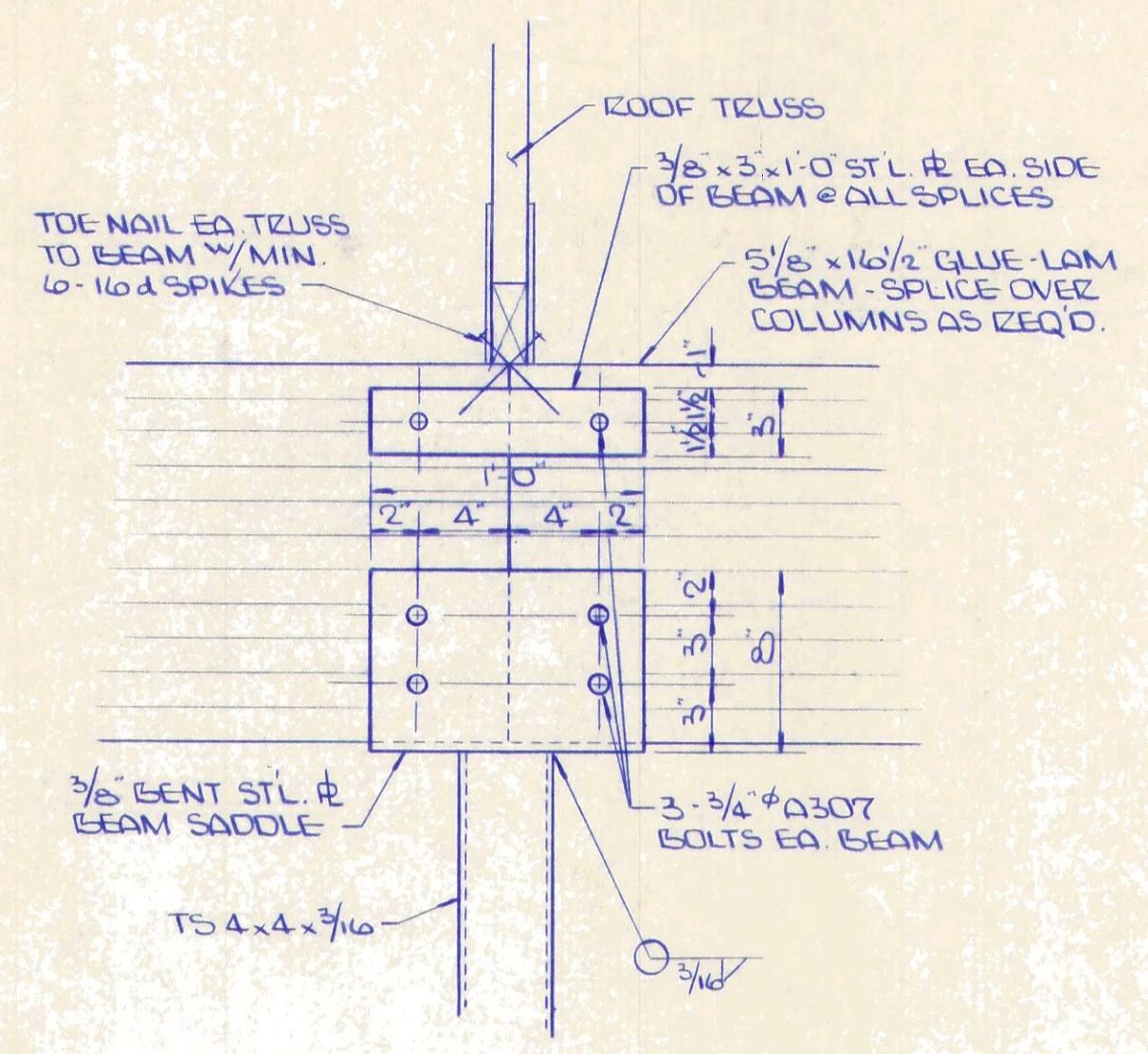
**WASTEWATER TREATMENT
PLANT IMPROVEMENTS
OAK HARBOR, OHIO**

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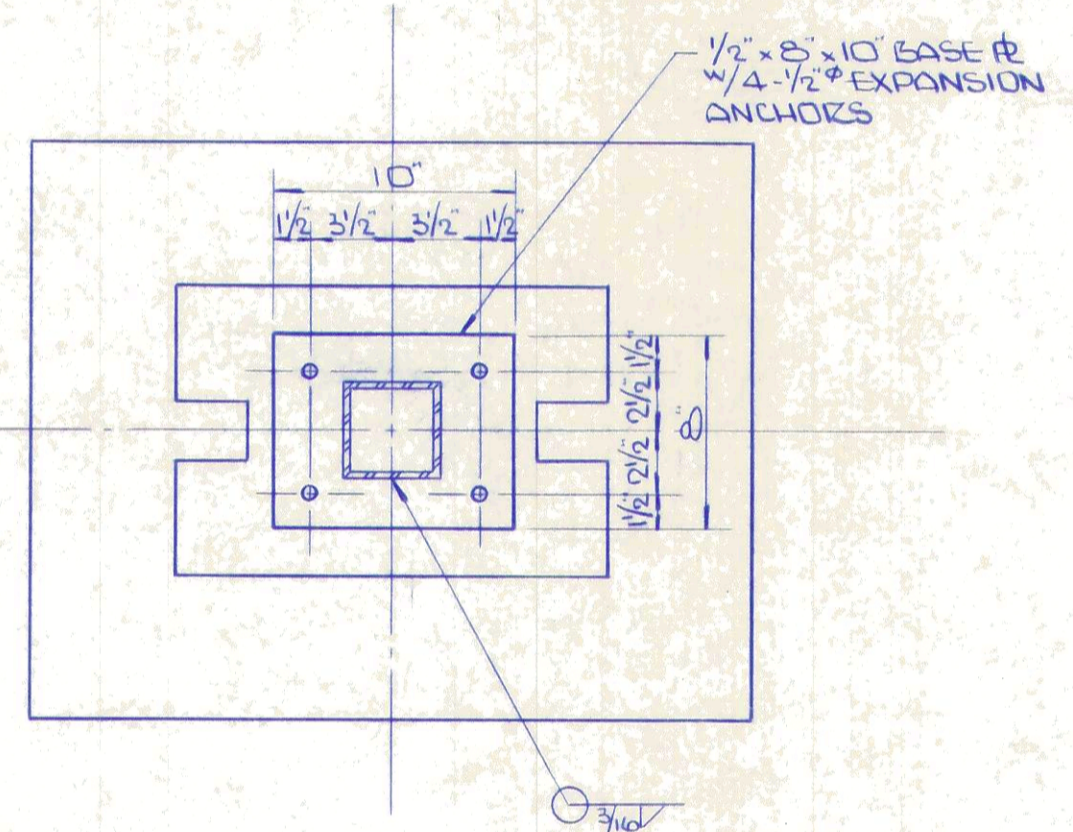
7 / **18**
JOB NUMBER
1590-008



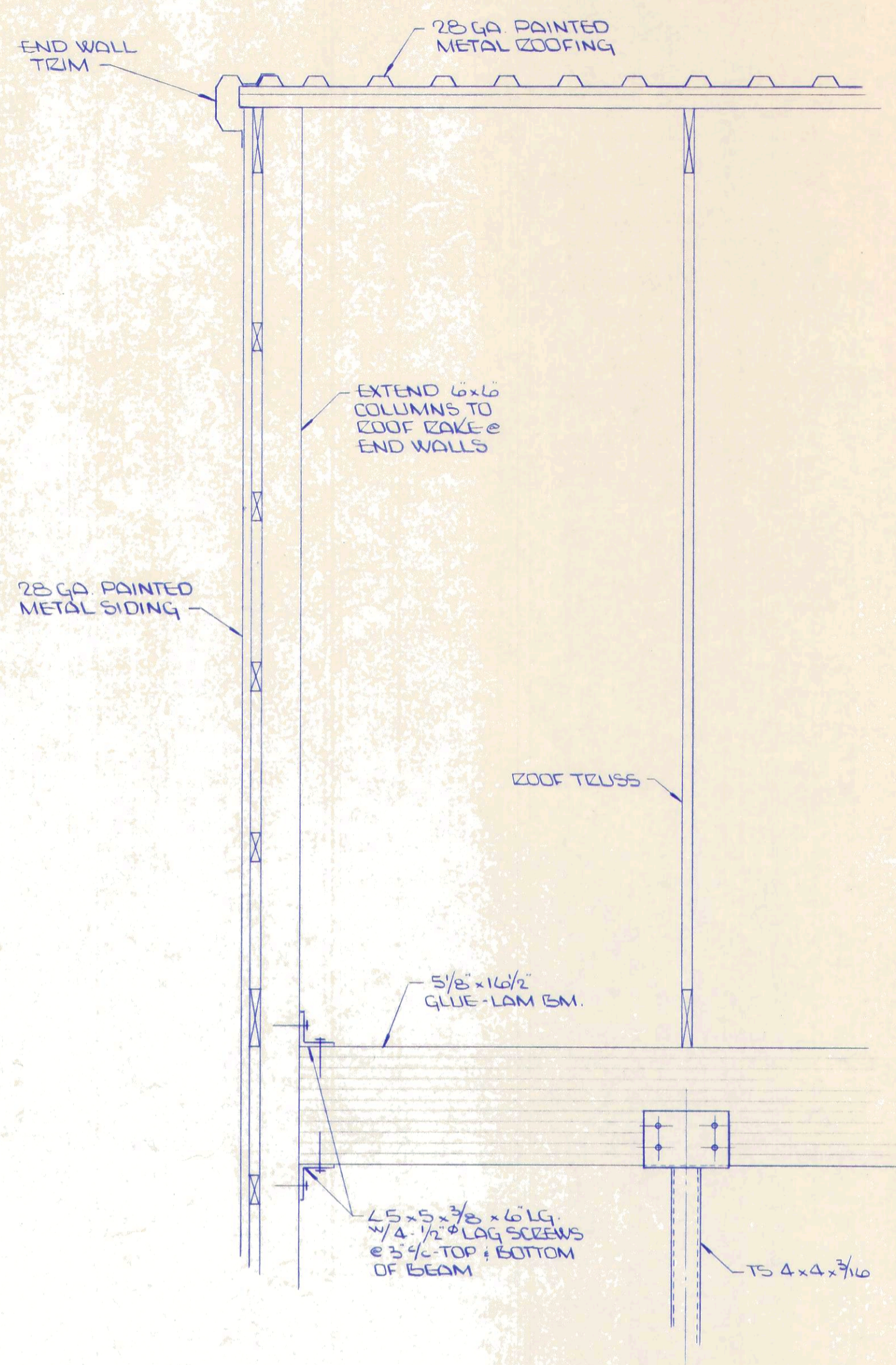
SECTION 1
3/4" - 1'-0" (1/7)



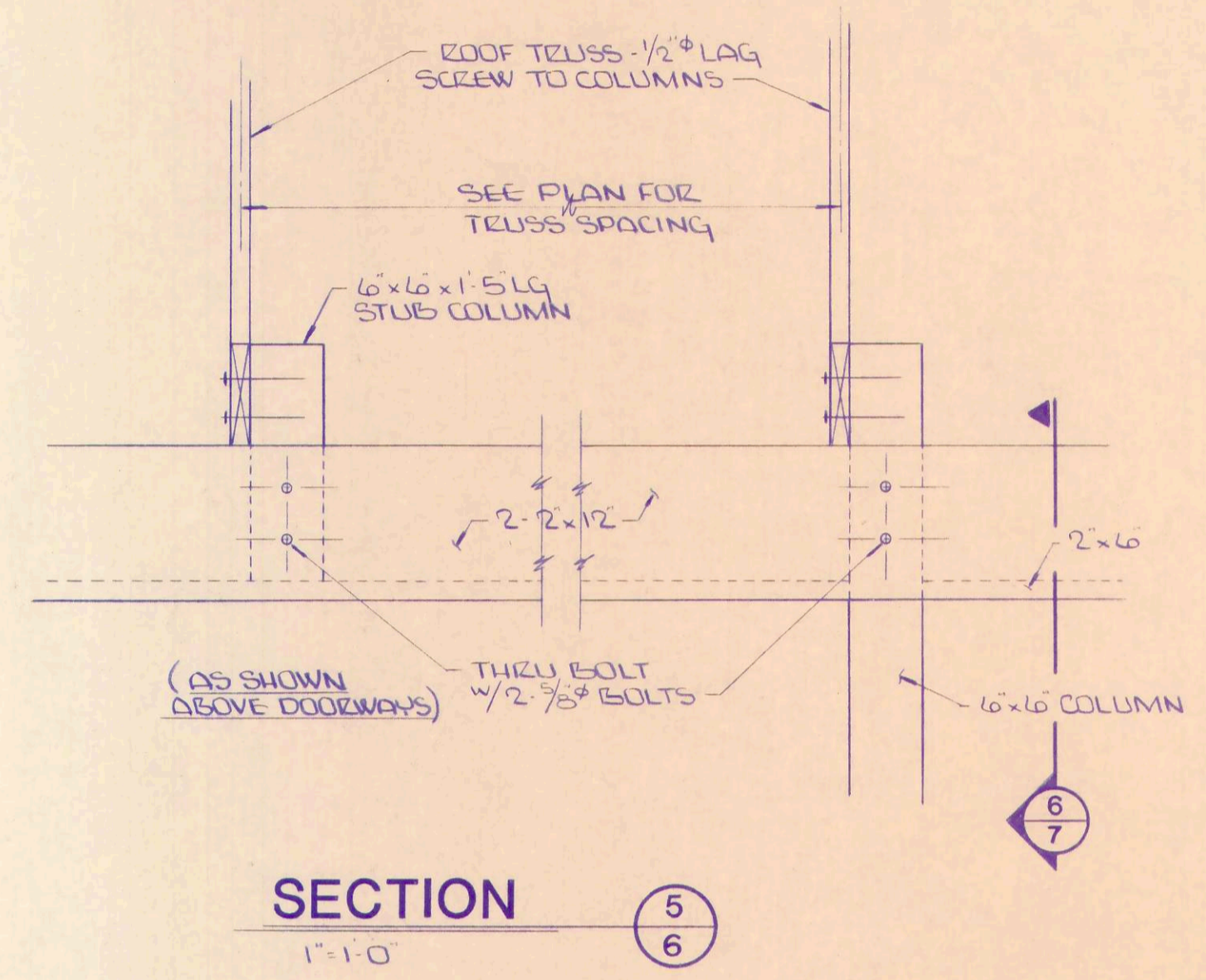
SECTION 2
1/2" - 1'-0" (2/7)



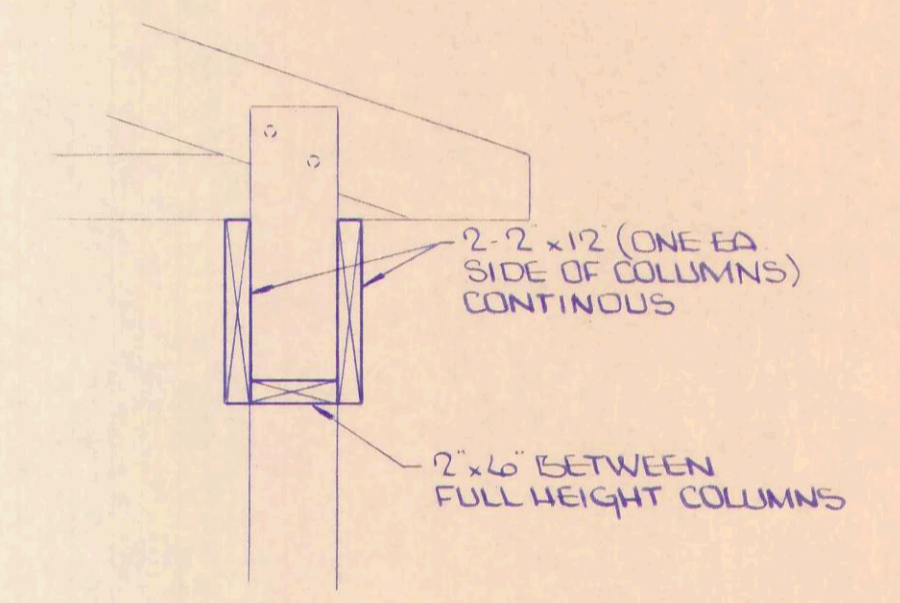
SECTION 3
1/2" - 1'-0" (3/7)



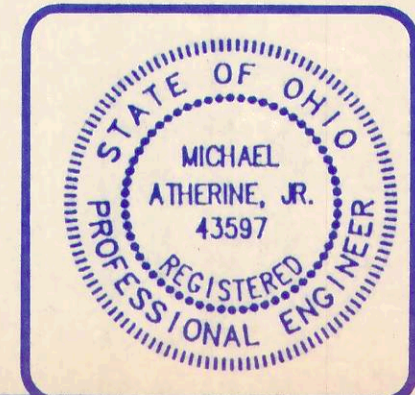
SECTION 4
3/4" - 1'-0" (4/7)



SECTION 5
1'-1'-0" (5/6)



SECTION 6
1'-1'-0" (6/7)

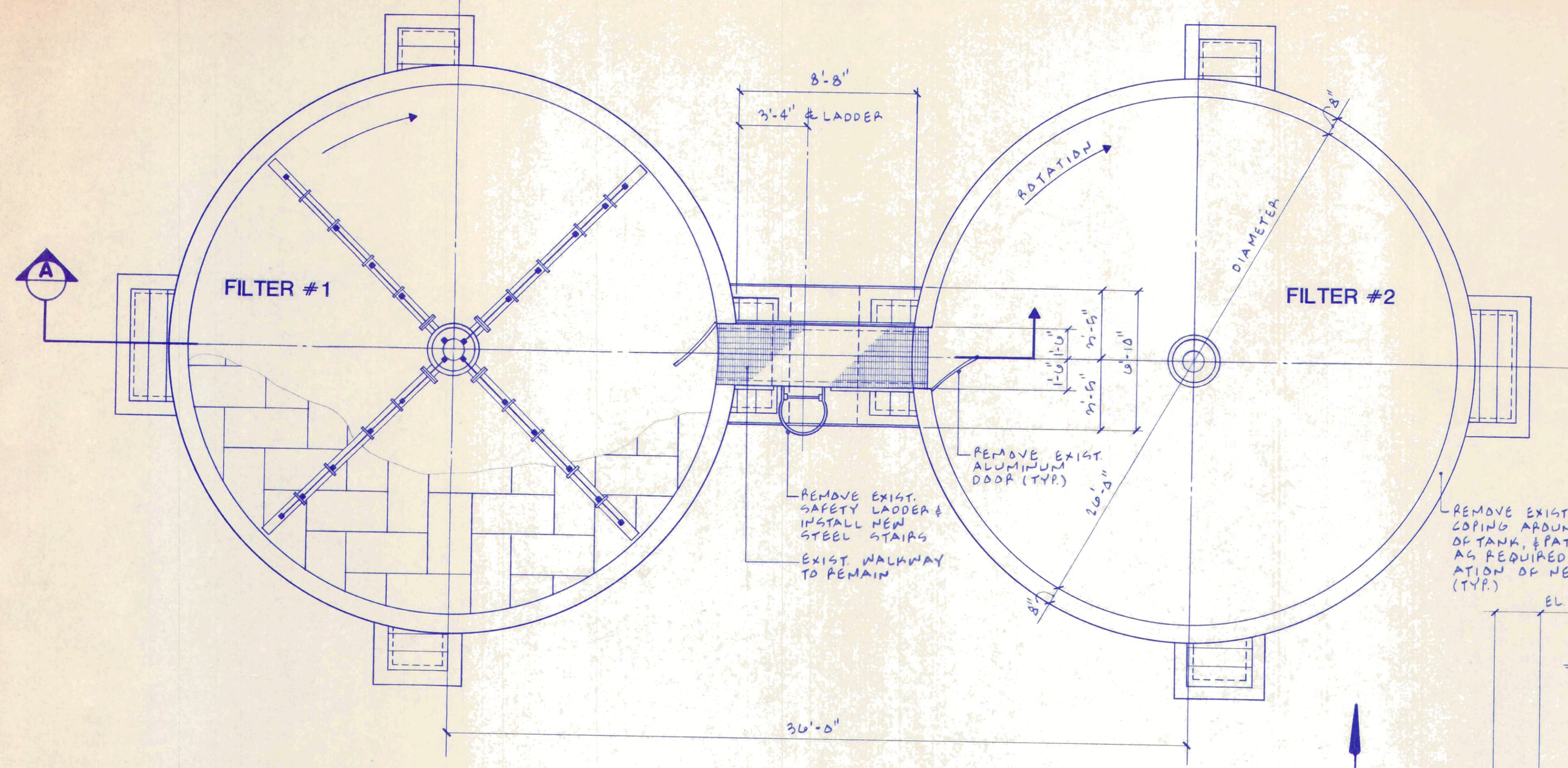


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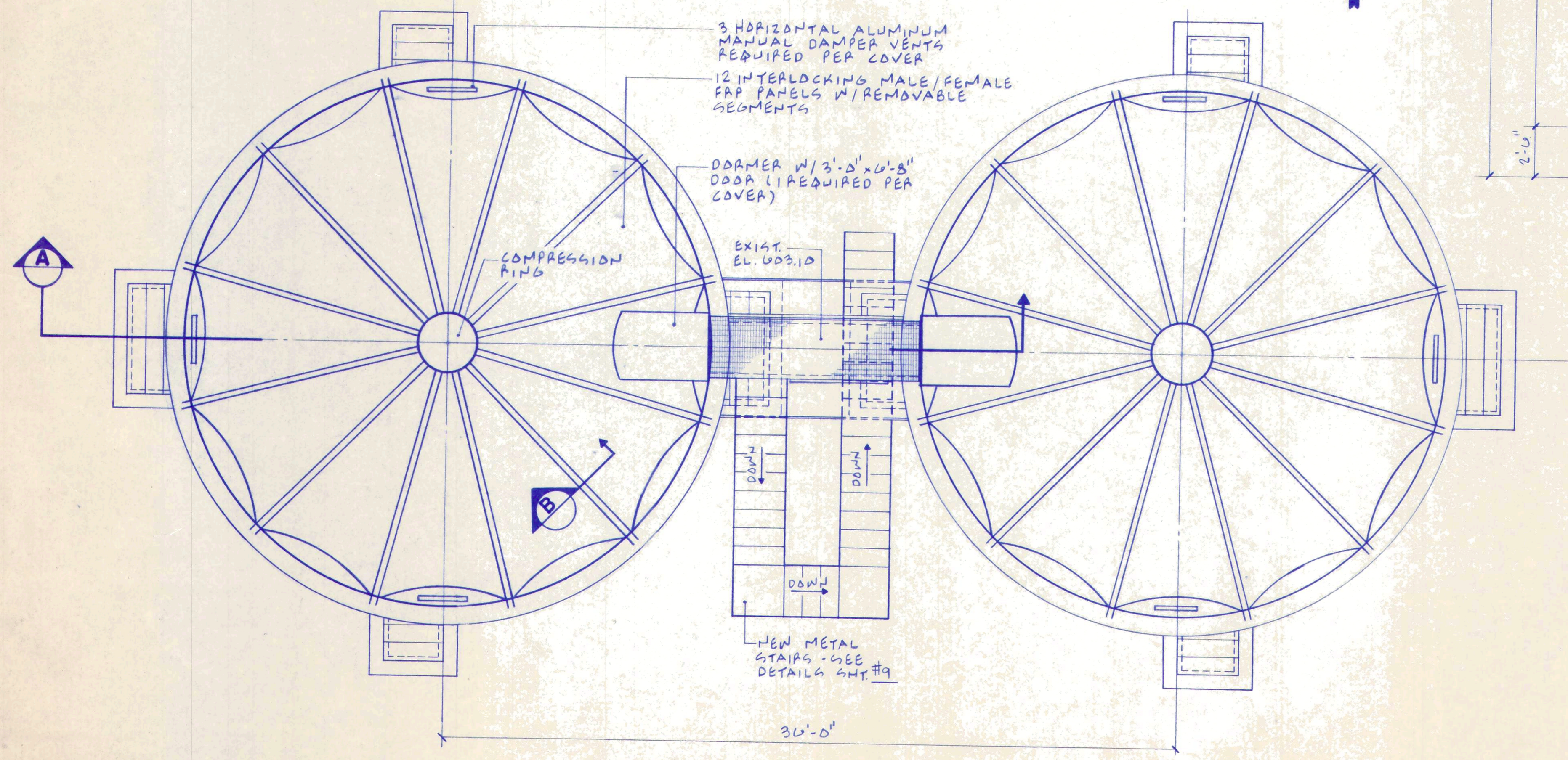
SECTIONS



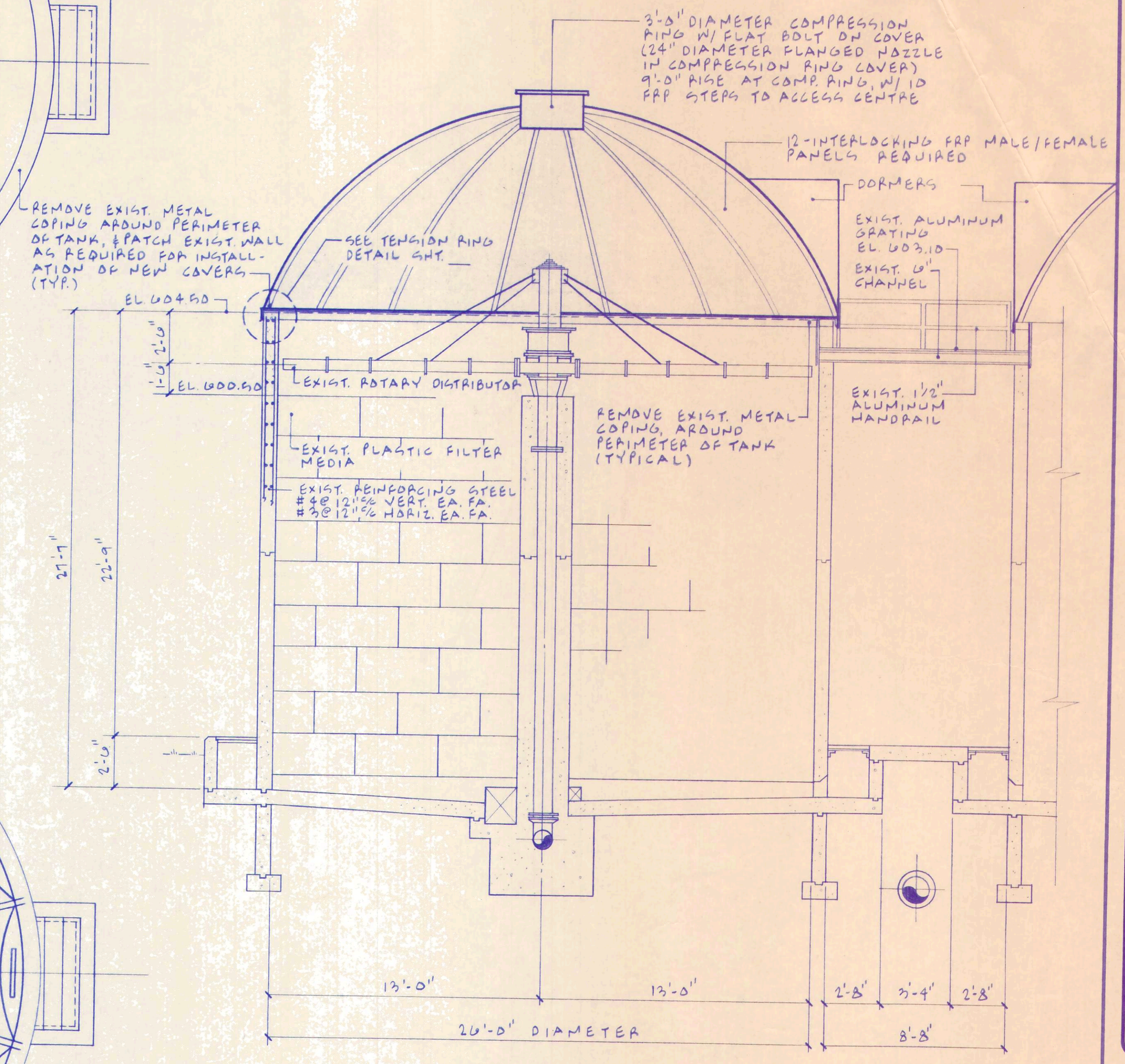
DRAWN BY	CHECKED BY	DATE
REVISION		



PLAN - EXISTING TRICKLING FILTERS
1/4" = 1'-0"



**PLAN - EXIST. TRICKLING FILTERS W/
NEW INSULATED DOME & NEW STAIRS**



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

CONTRACTOR NOTE:
VERIFY EXISTING CONDITIONS AND DIMENSIONS BEFORE PROCEEDING WITH WORK



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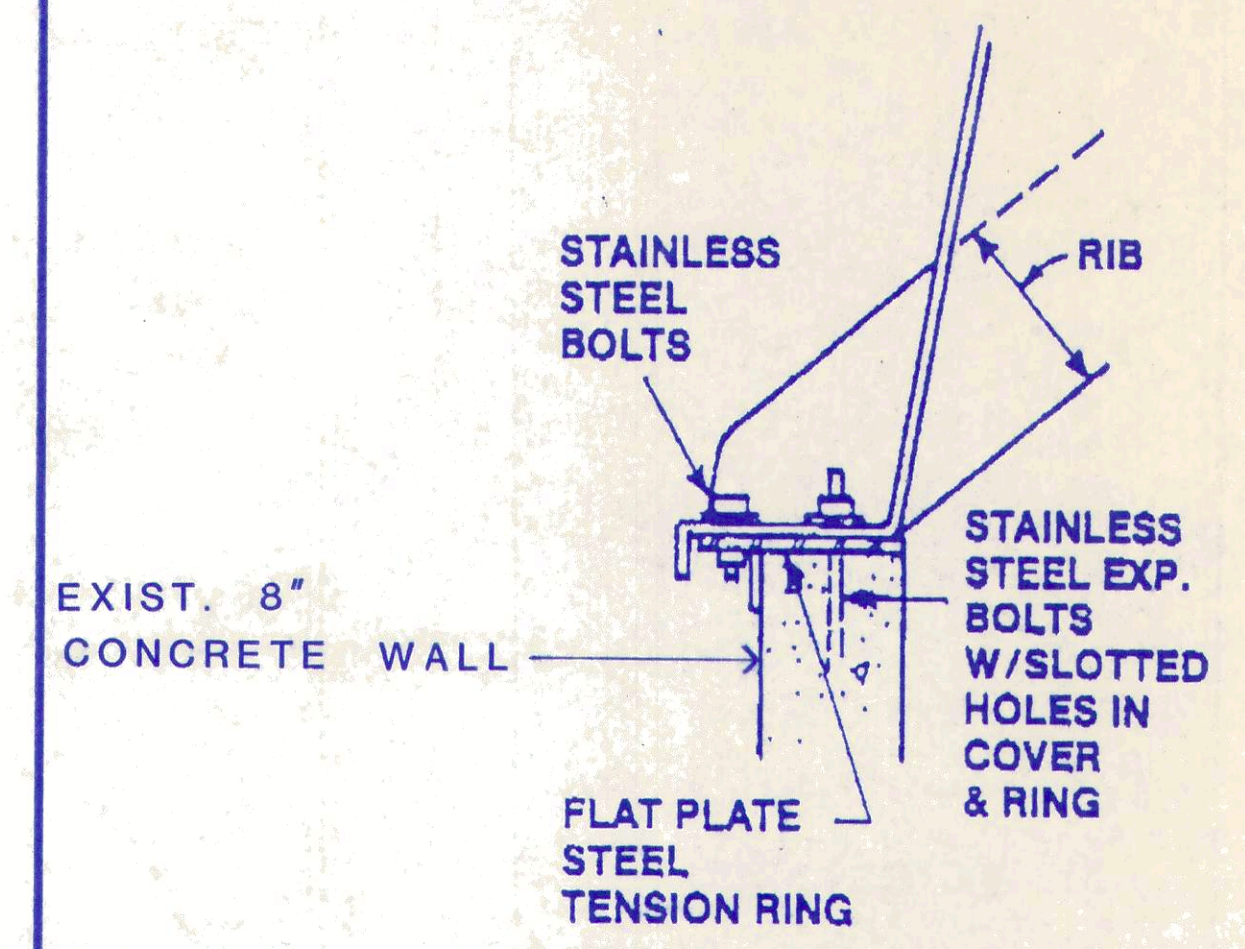


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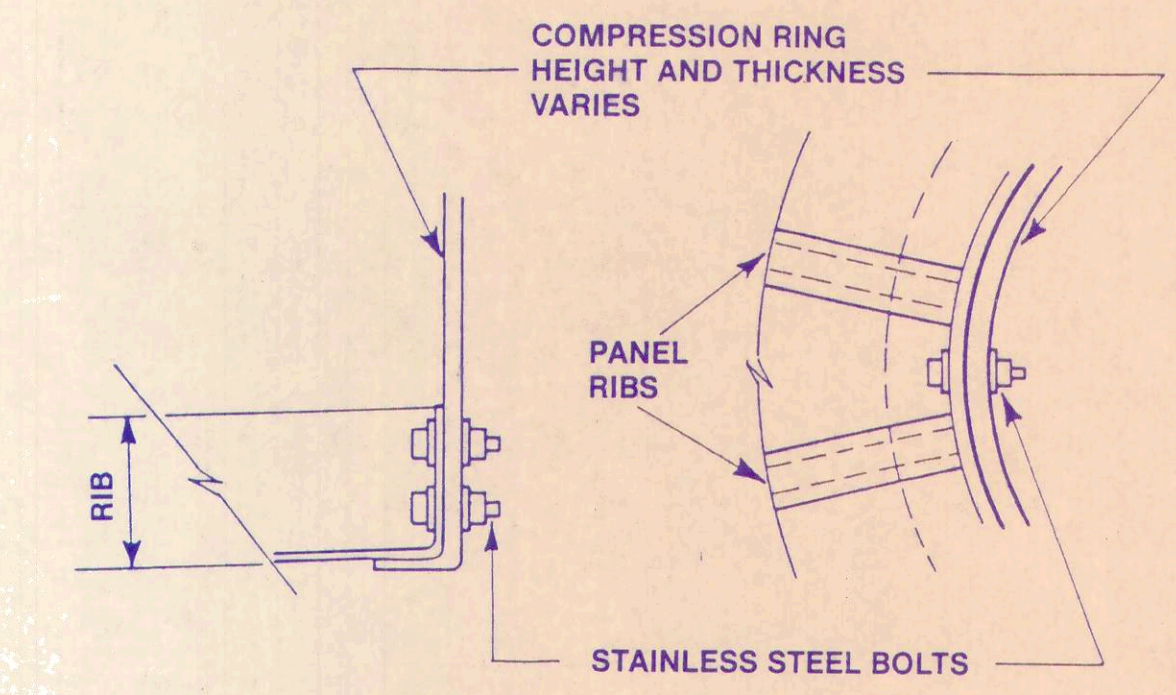
**WASTEWATER TREATMENT
 PLANT IMPROVEMENTS
 OAK HARBOR, OHIO**

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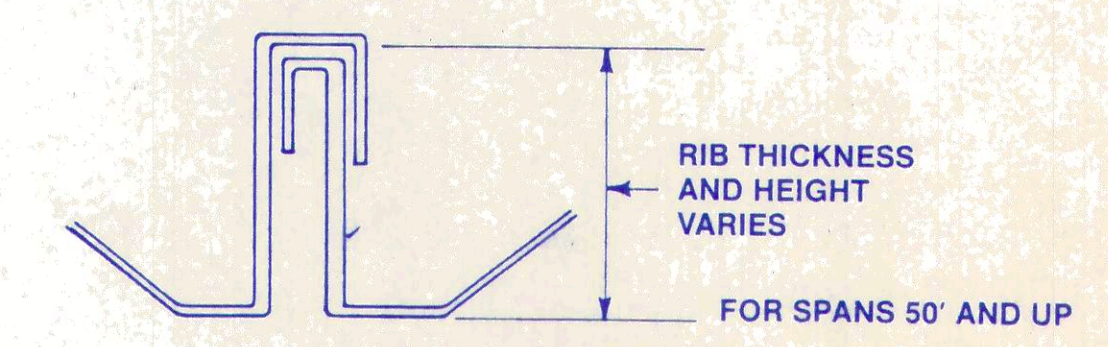
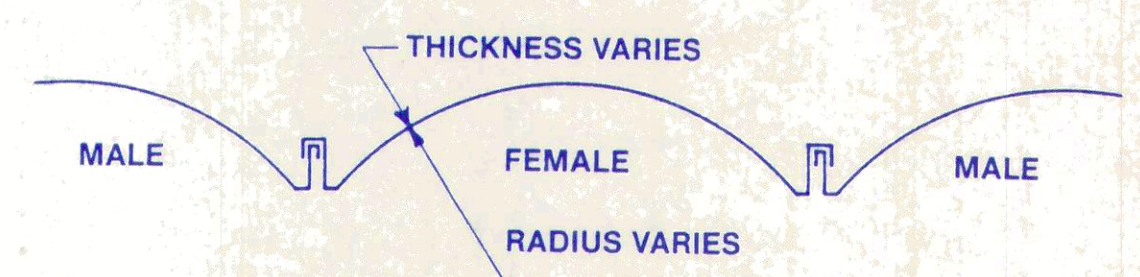
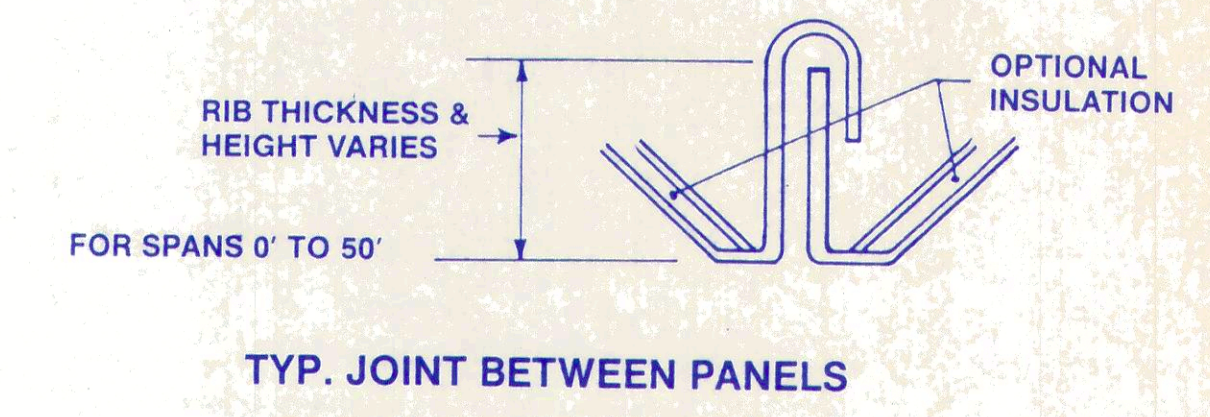
9/18
 JOB NUMBER
 1590-008



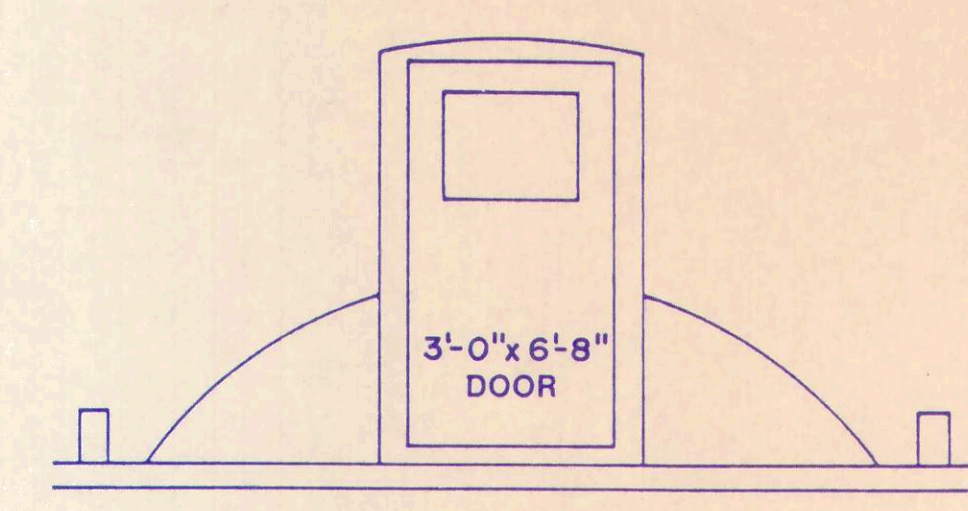
TENSION RING DETAIL



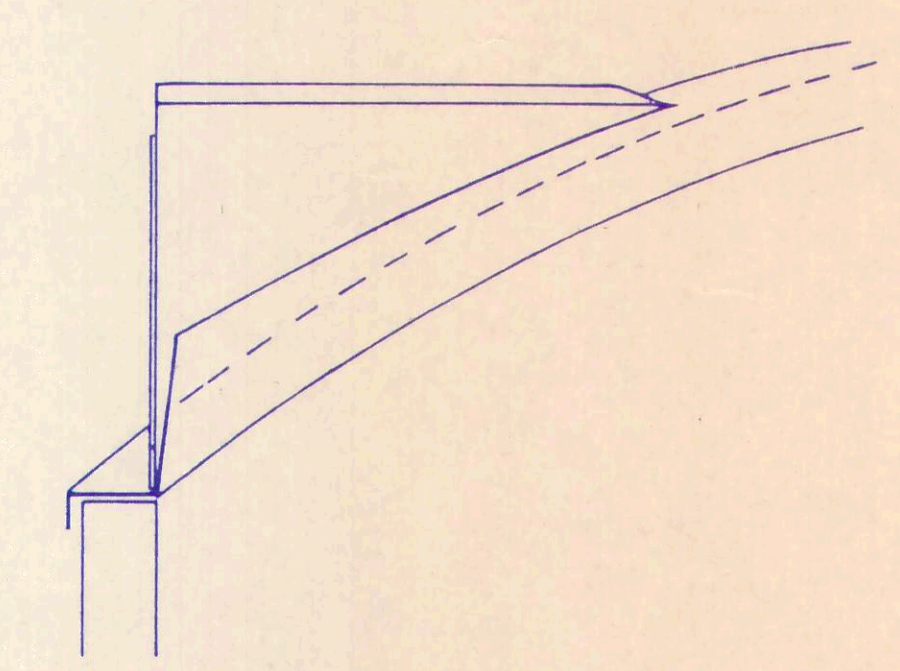
CONNECTION DETAILS AT COMPRESSION RING
COMPRESSOR RING DETAIL



PANEL DETAILS



FRONT ELEVATION



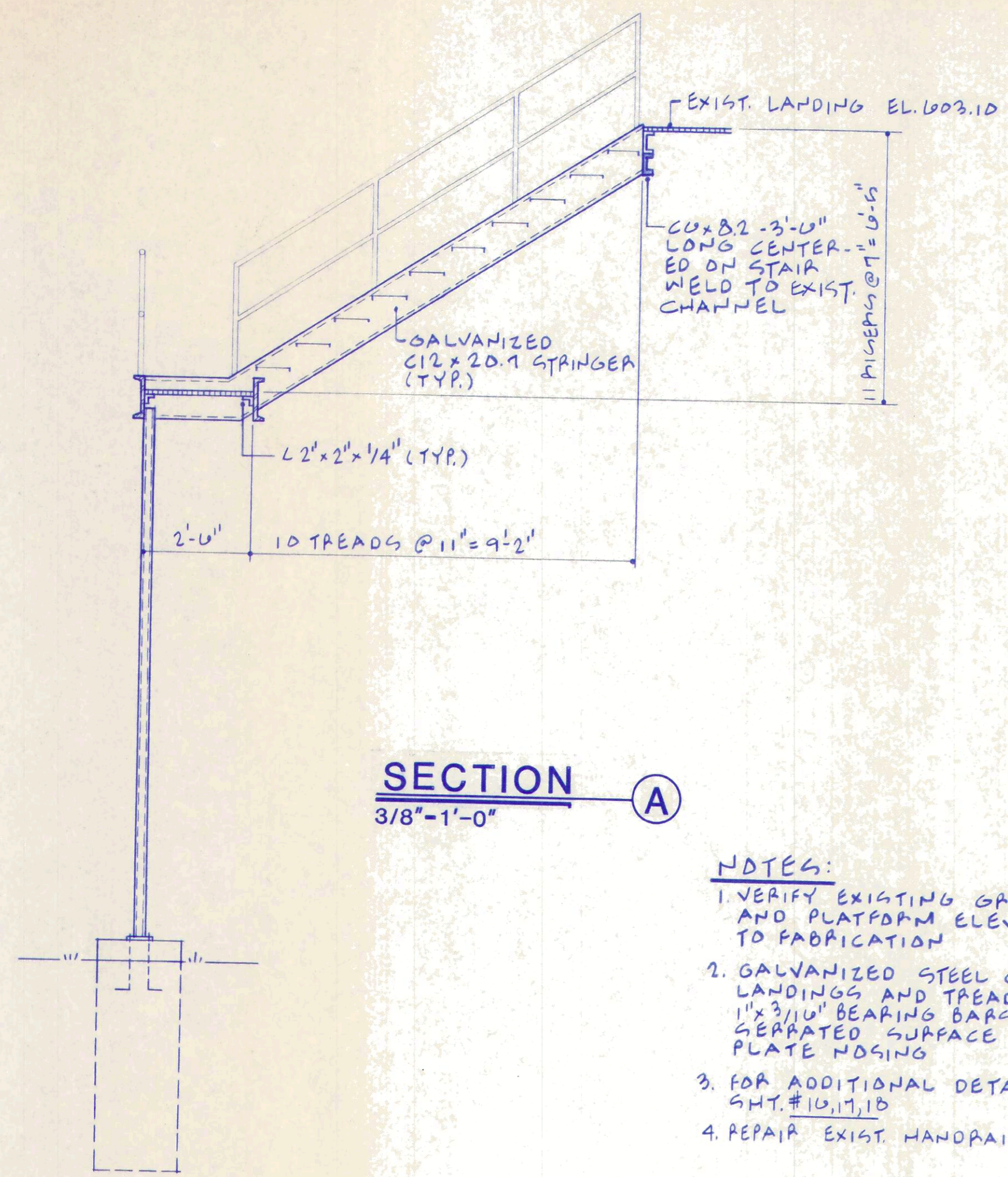
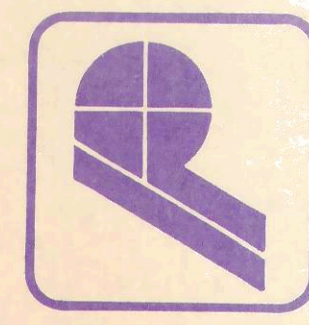
SIDE ELEVATION

DORMER DETAILS

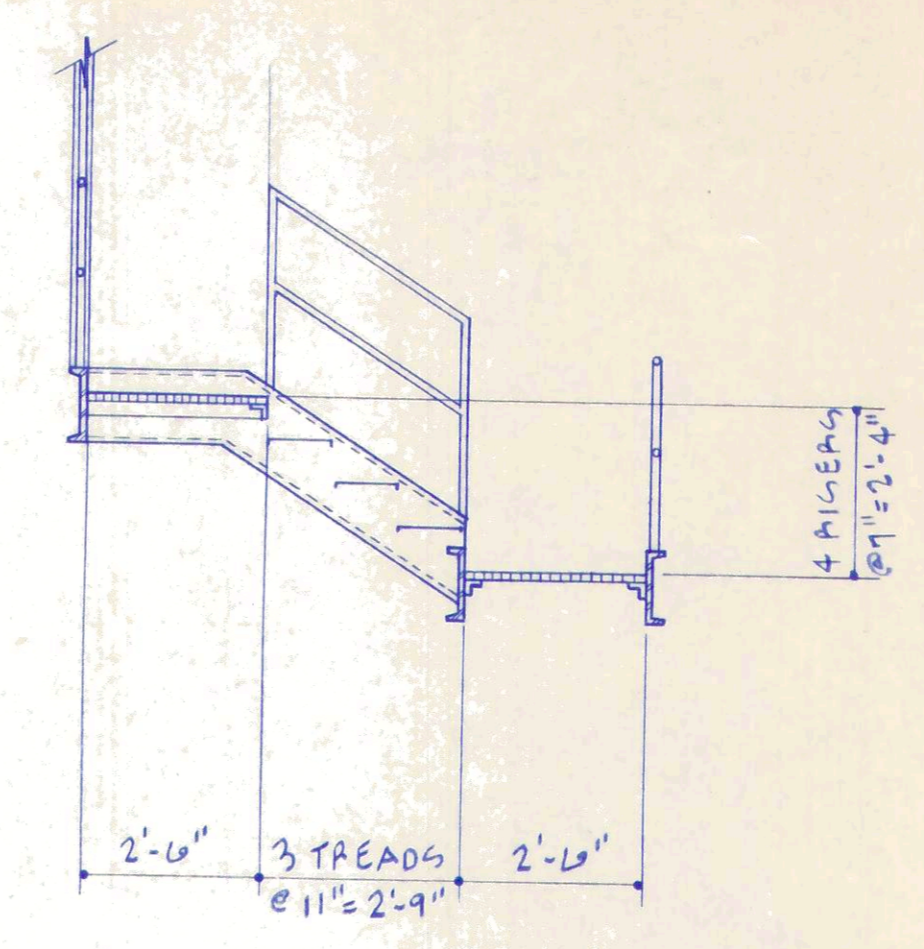


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EXISTING TRICKLING FILTERS

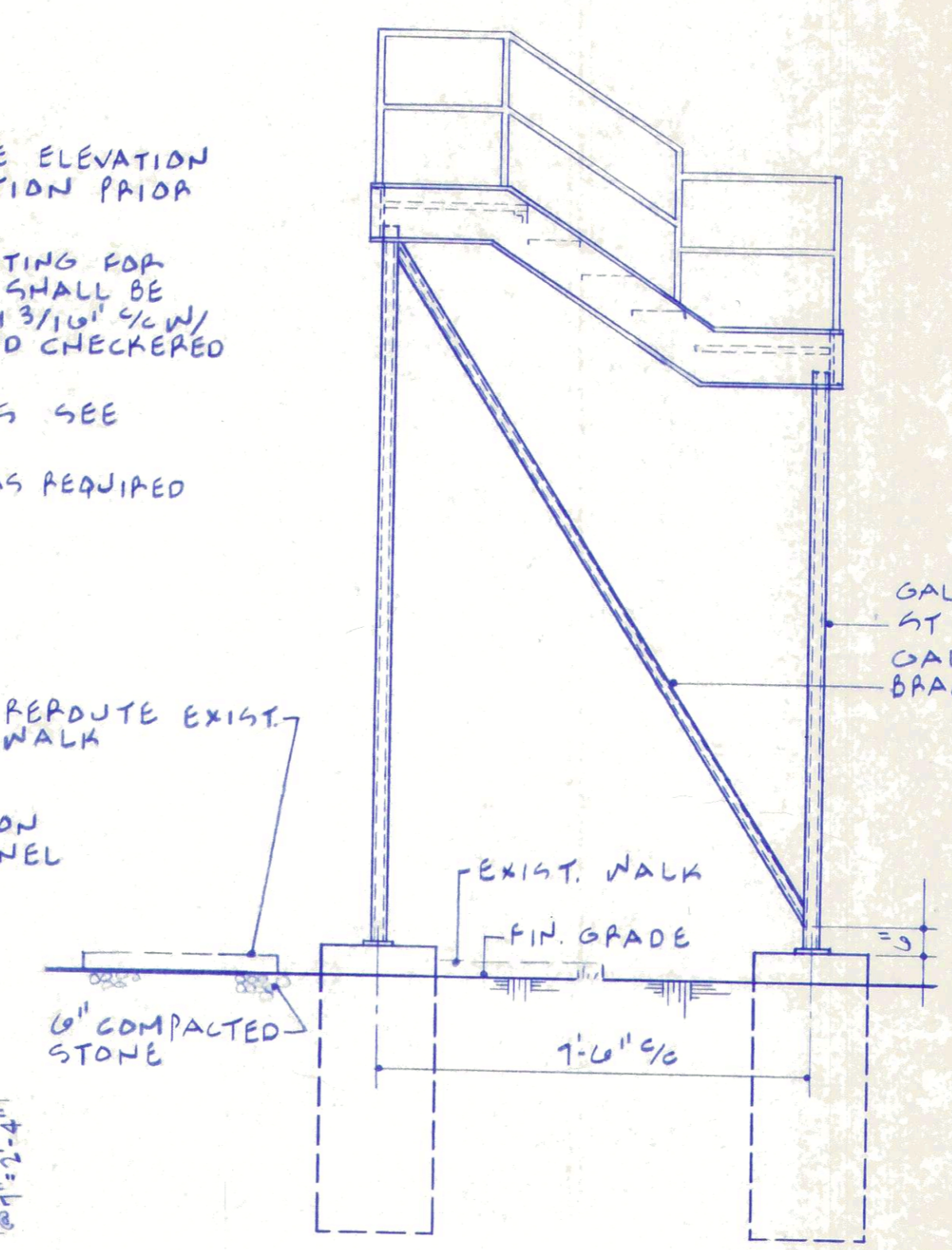


SECTION A
3/8"-1'-0"

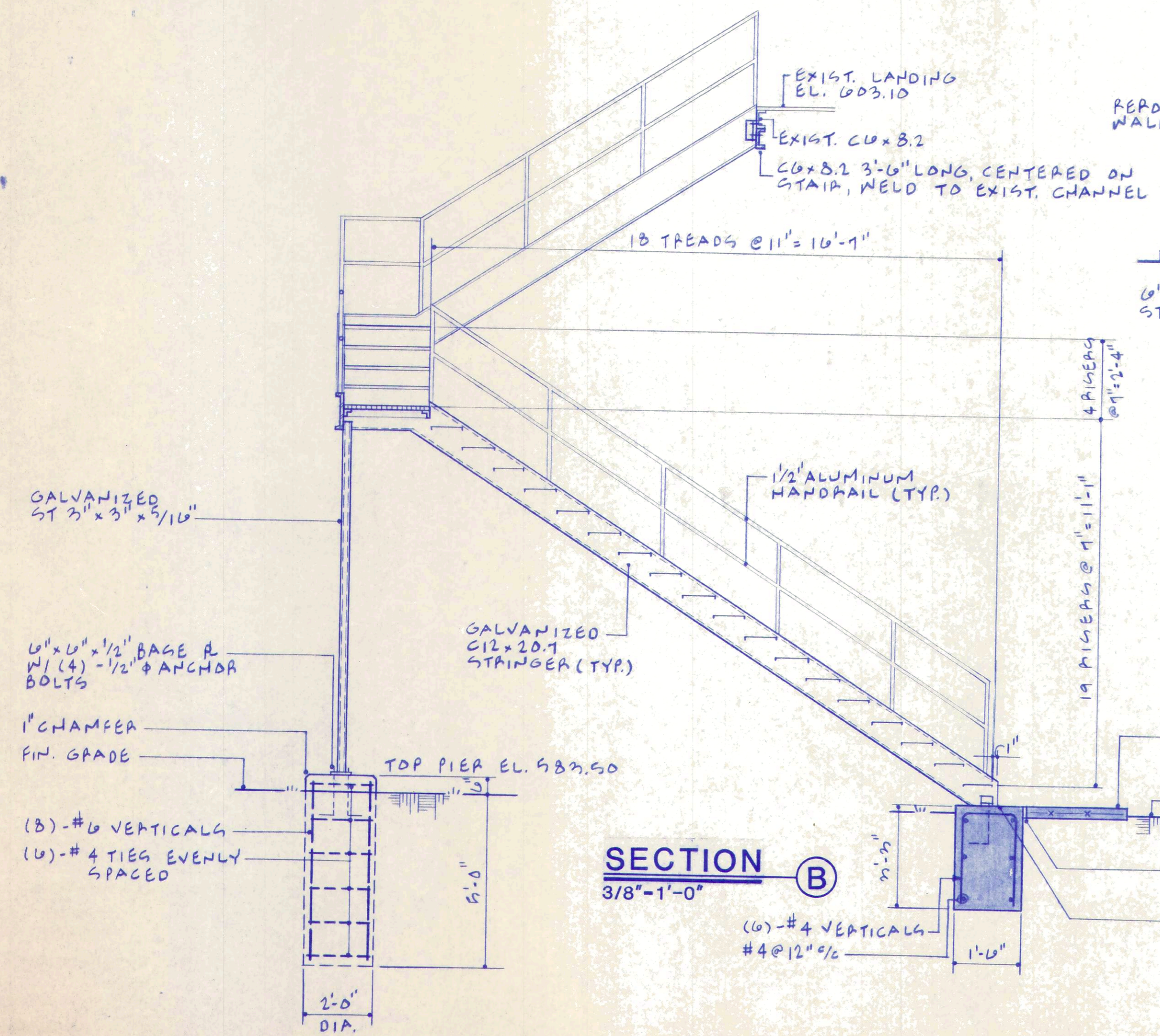


SECTION C
3/8"-1'-0"

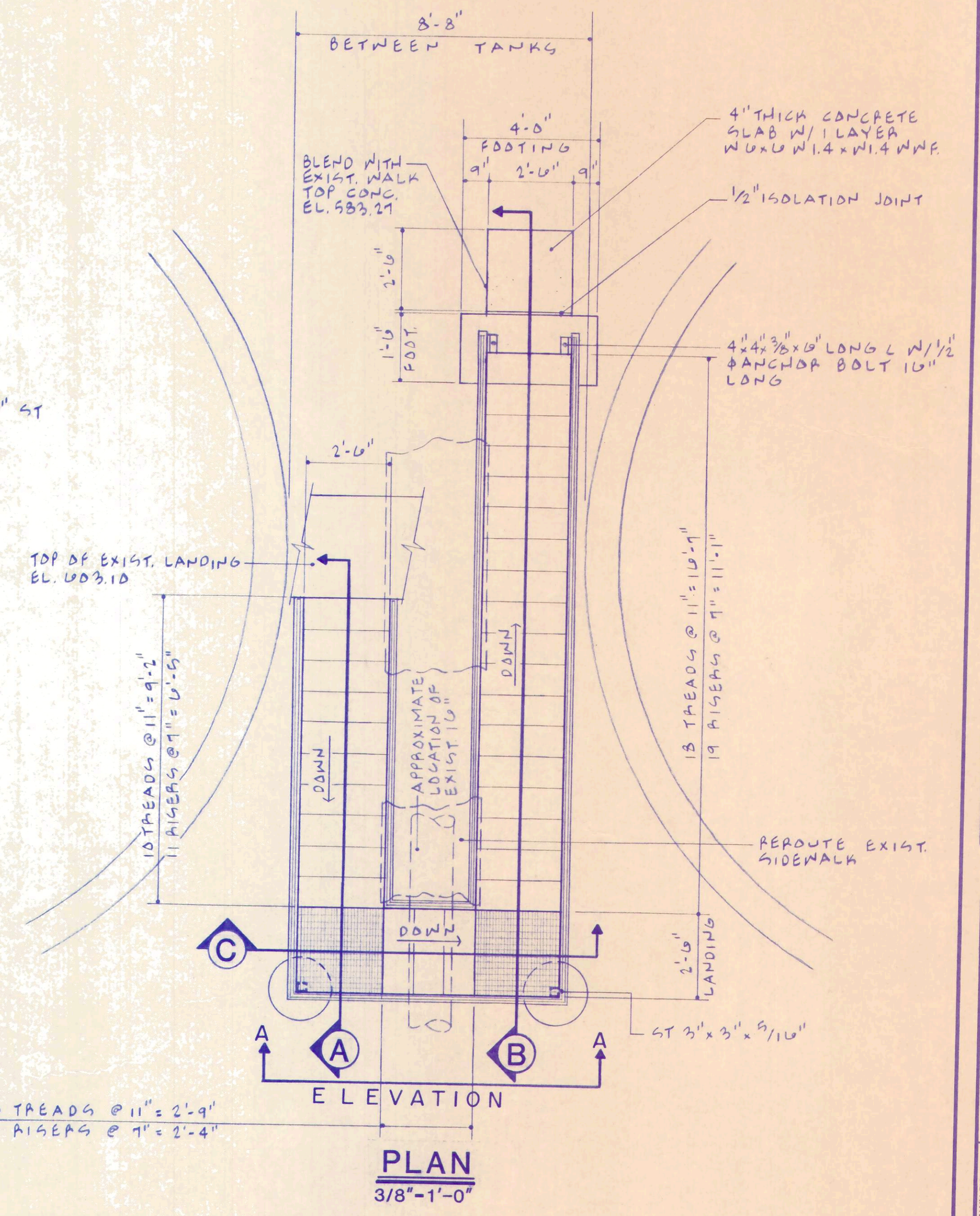
- NOTES:**
1. VERIFY EXISTING GRADE ELEVATION AND PLATFORM ELEVATION PRIOR TO FABRICATION
 2. GALVANIZED STEEL SPACING FOR LANDINGS AND TREADS SHALL BE 1" x 3/16" BEARING BARS @ 1 3/16" C/W/ SEPARATED SURFACE AND CHECKERED PLATE NOSING
 3. FOR ADDITIONAL DETAILS SEE SHT. #10, 11, 12
 4. REPAIR EXIST. HANDRAIL AS REQUIRED



ELEVATION A-A
3/8"-1'-0"



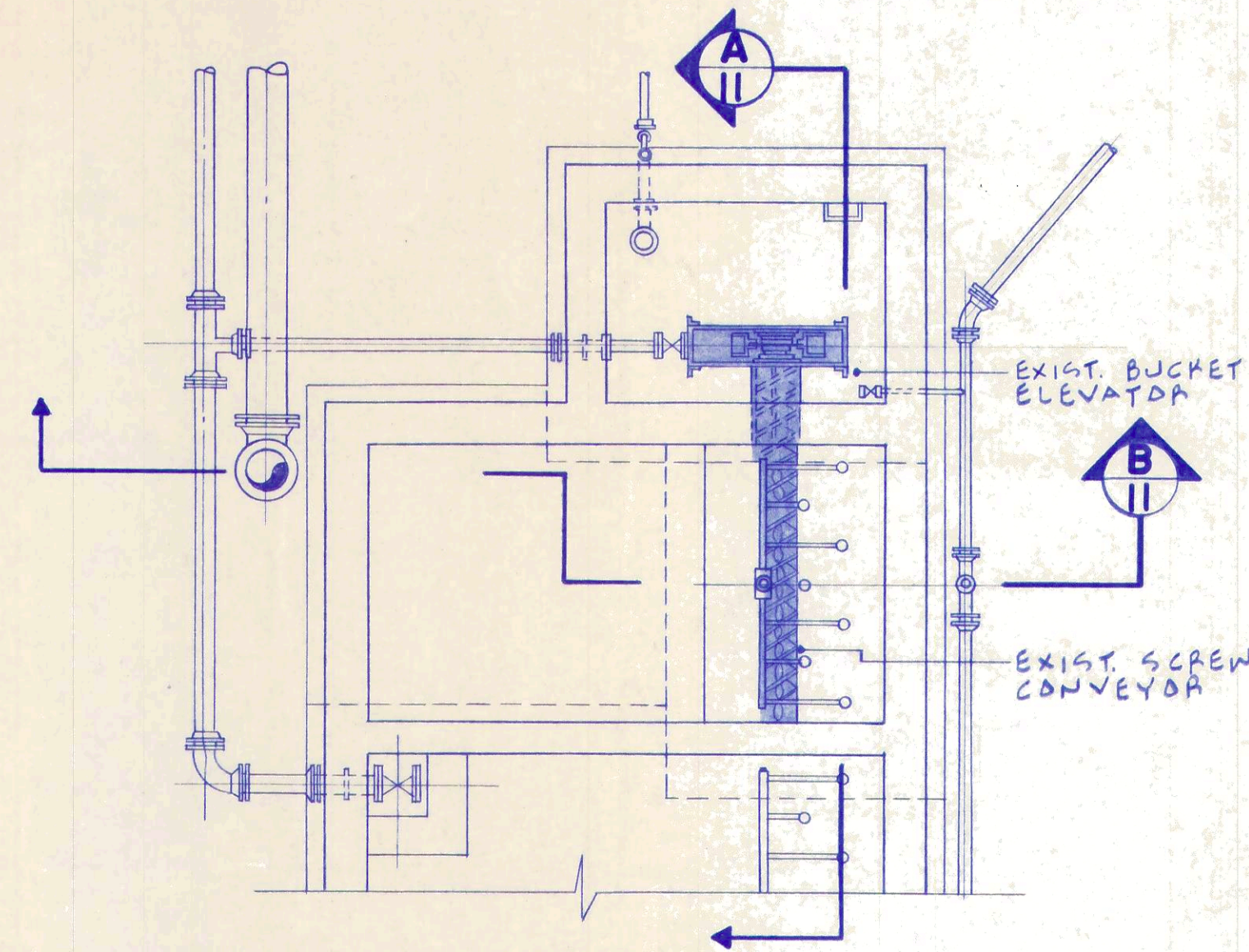
SECTION B
3/8"-1'-0"



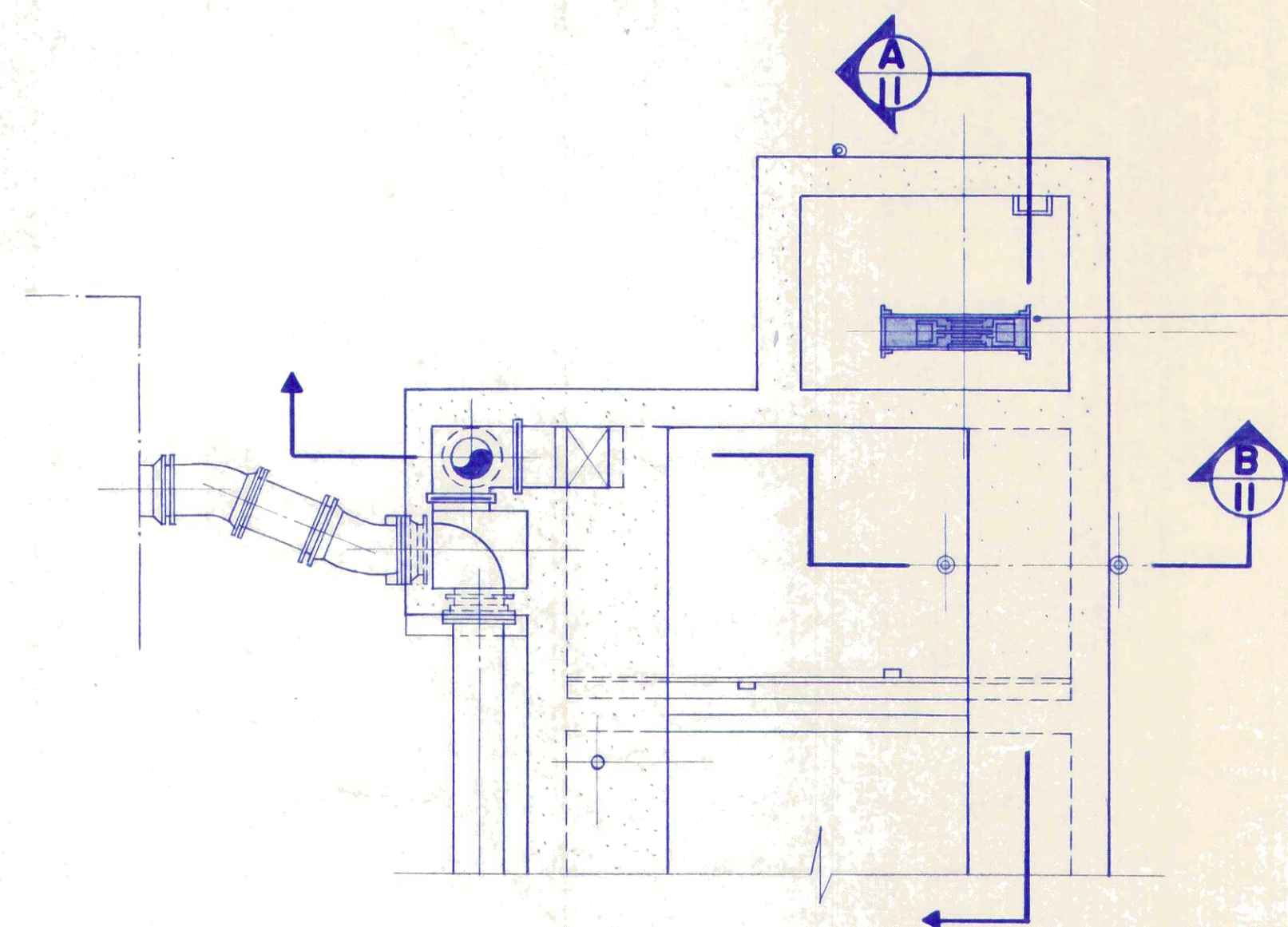
ELEVATION
3/8"-1'-0"

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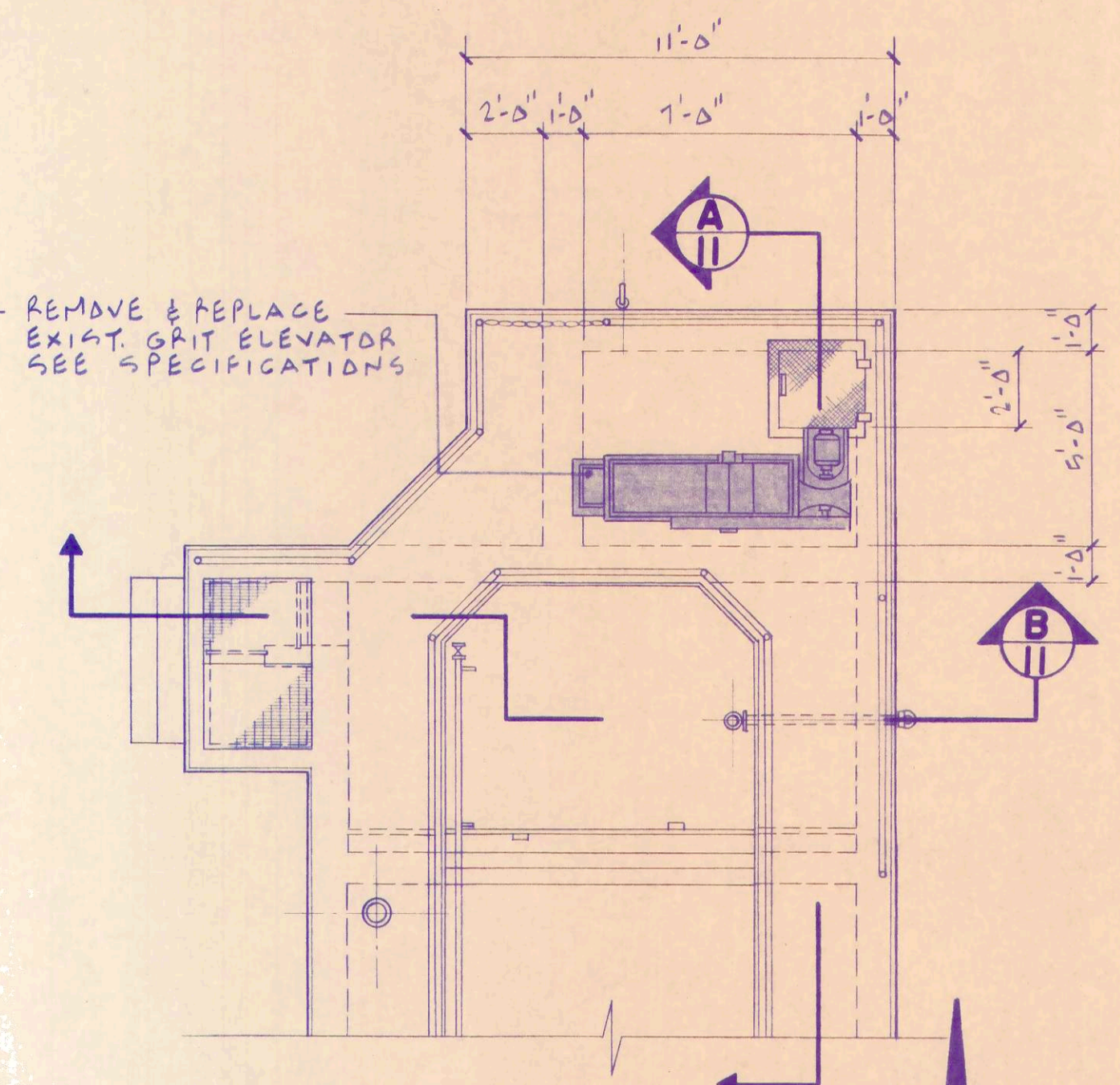
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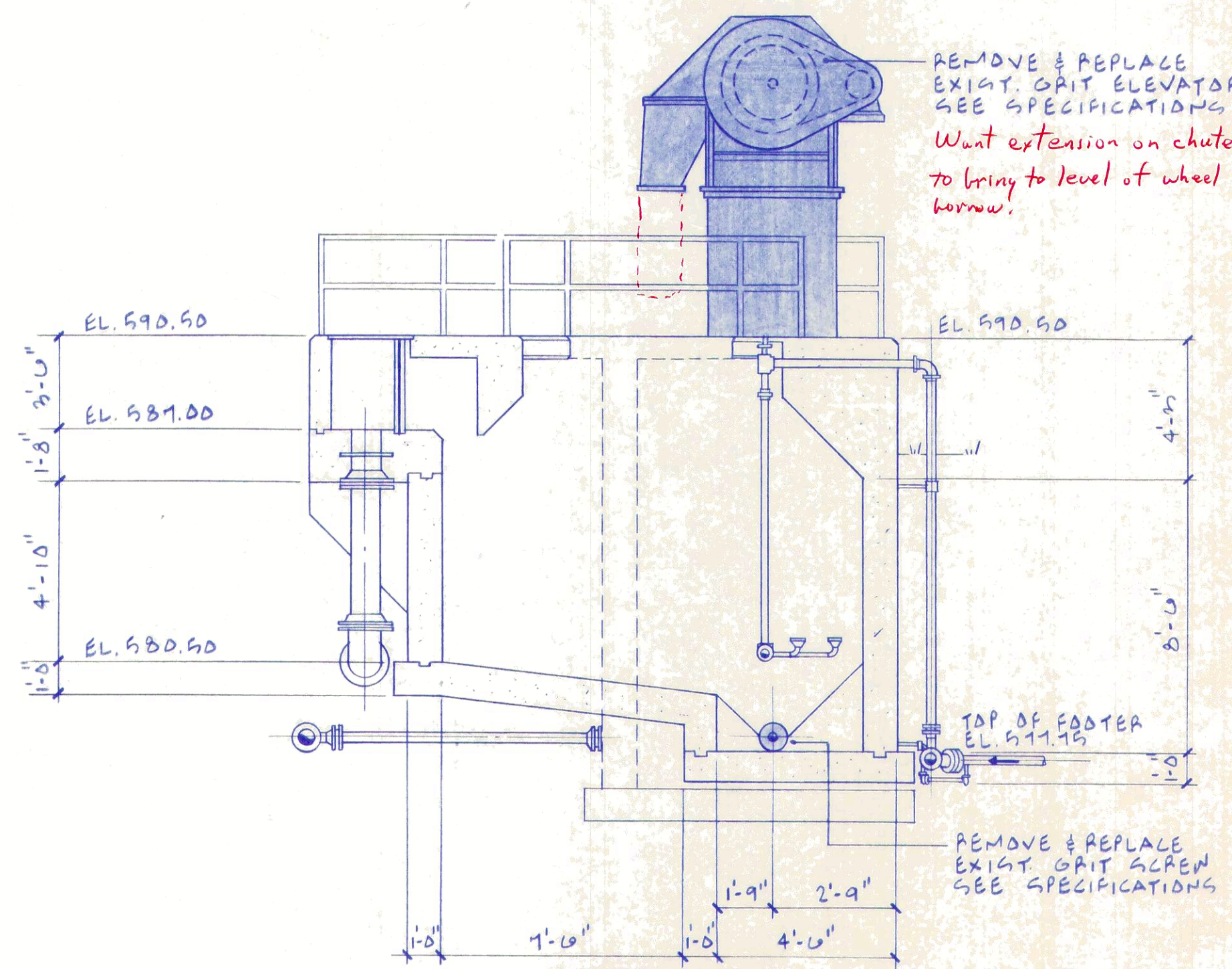
**SECTIONAL PLAN
EXIST.**



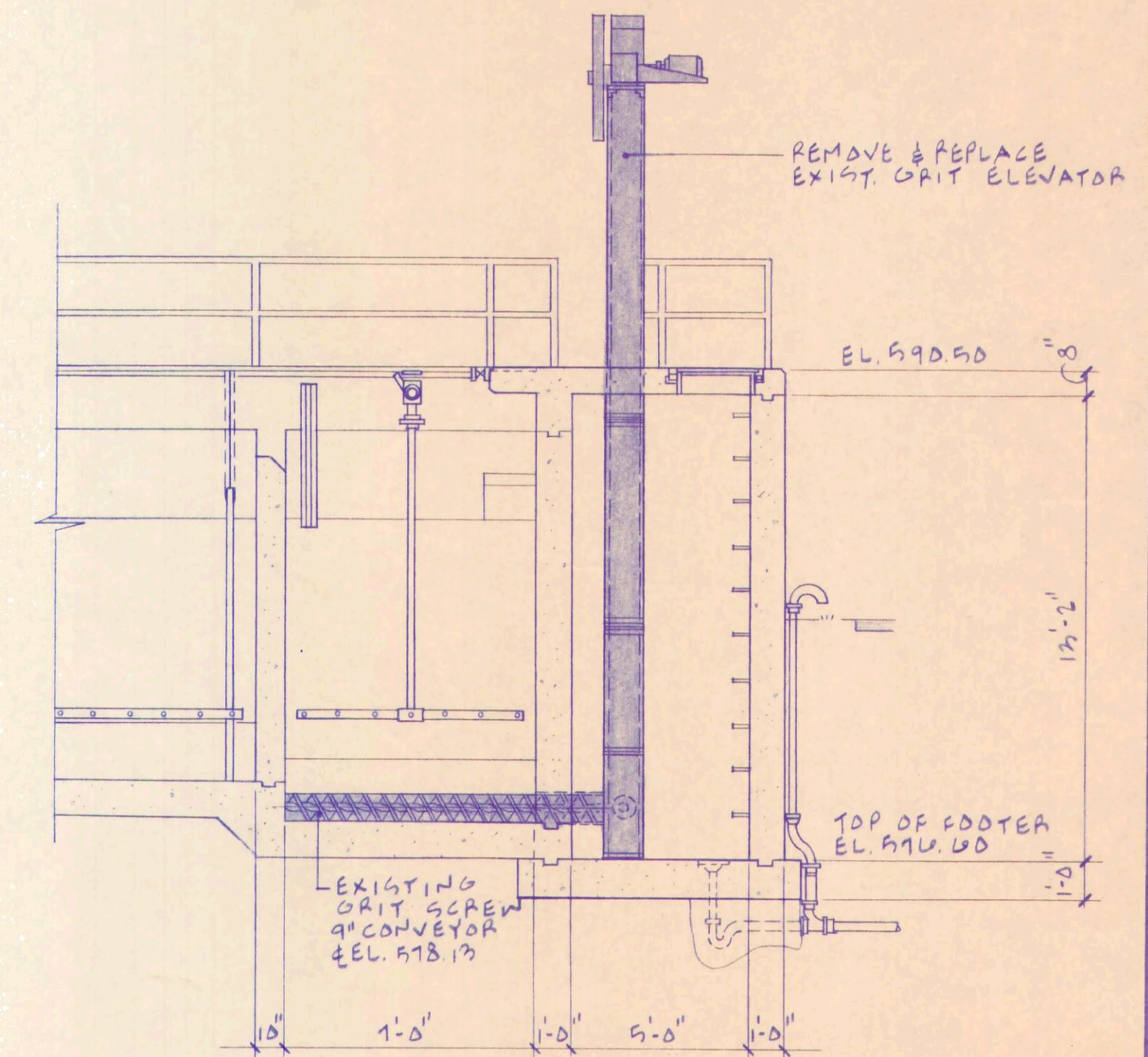
**SECTIONAL PLAN
EXIST.**



**PLAN
EXIST.
1/4\"-1'-0"**

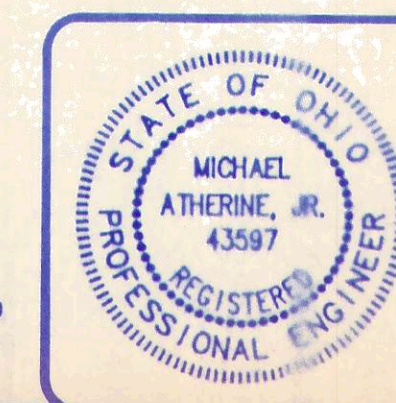


**SECTION B
EXIST.
1/4\"-1'-0"**



**SECTION A
EXIST.
1/4\"-1'-0"**

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AIR DEGRITTING - PREAERATION TANK



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**WASTEWATER TREATMENT
PLANT IMPROVEMENTS
OAK HARBOR, OHIO**

DATE	
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DRAWN BY	
REVISION	

11 / 18
JOB NUMBER
1590-008

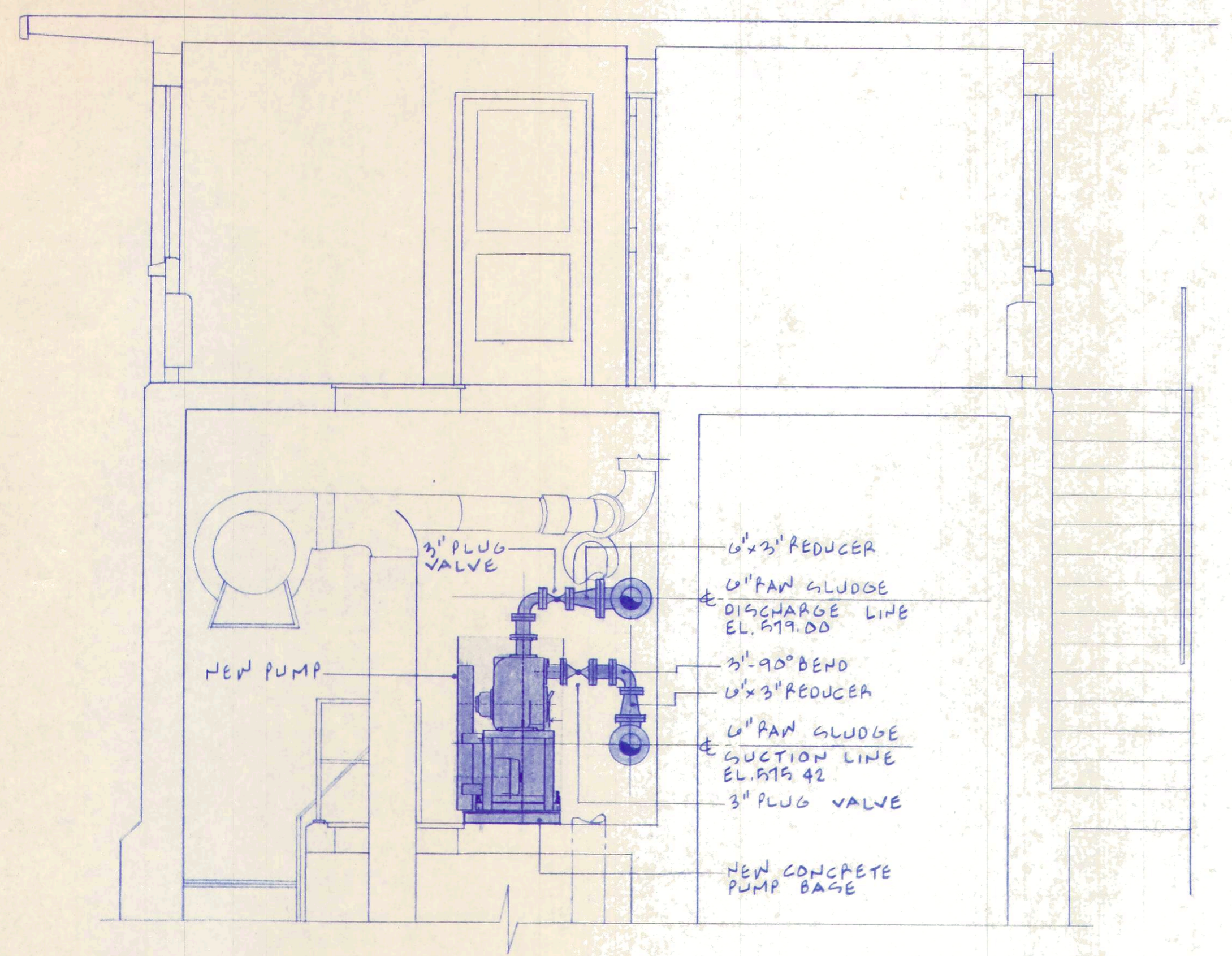


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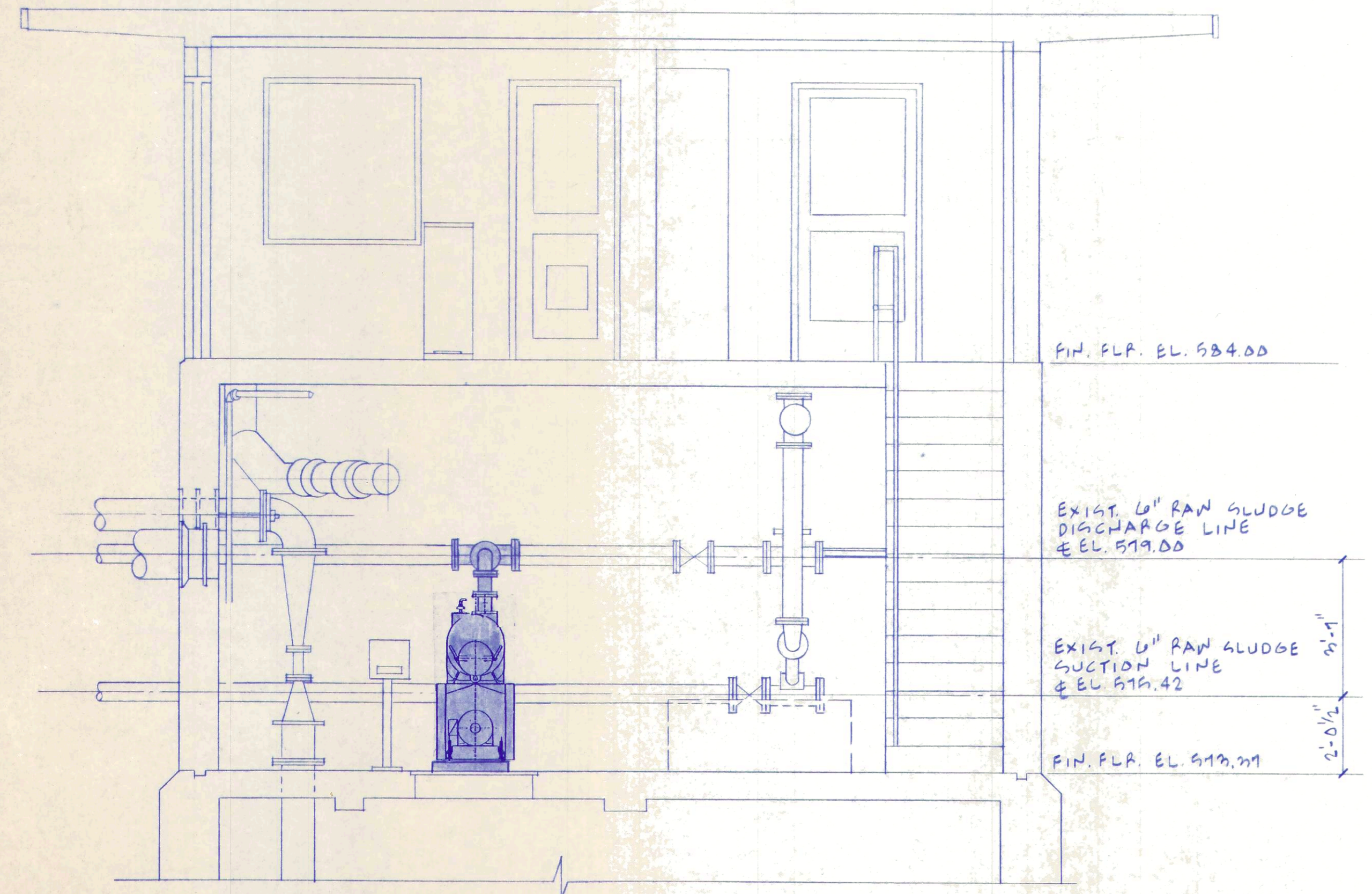
**WASTEWATER TREATMENT
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OAK HARBOR, OHIO**

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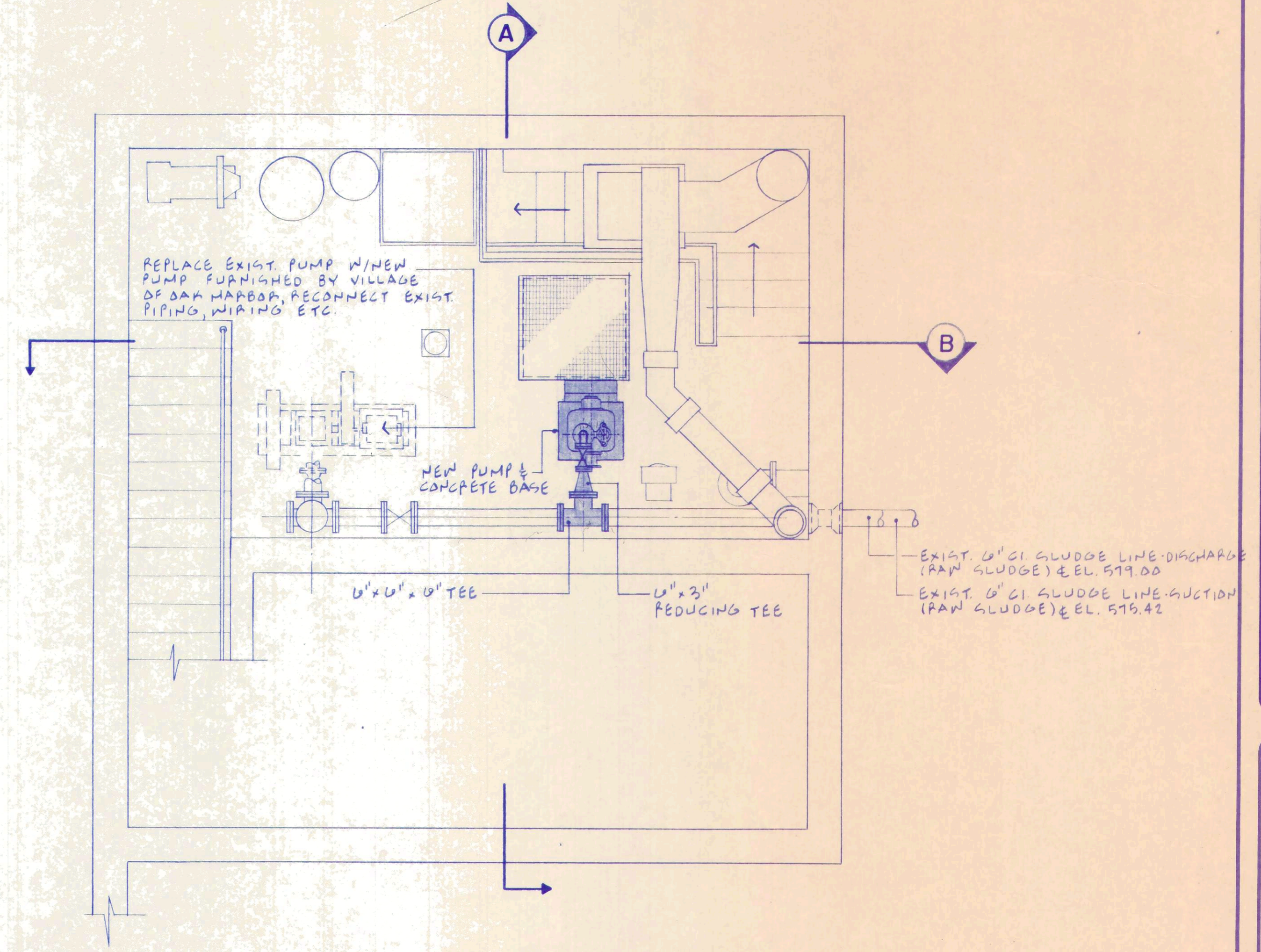
12 / 18
JOB NUMBER
1590-008



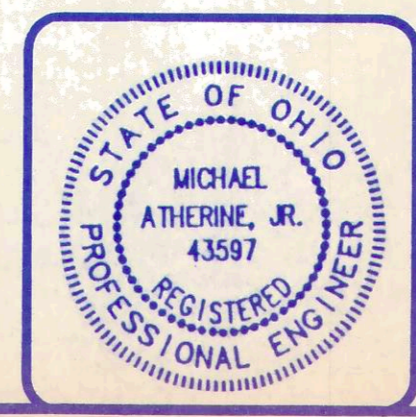
SECTION A
3/8" - 1'-0"



SECTION B
3/8" - 1'-0"



SECTIONAL PLAN AT ELEV. 573.37
3/8" - 1'-0"

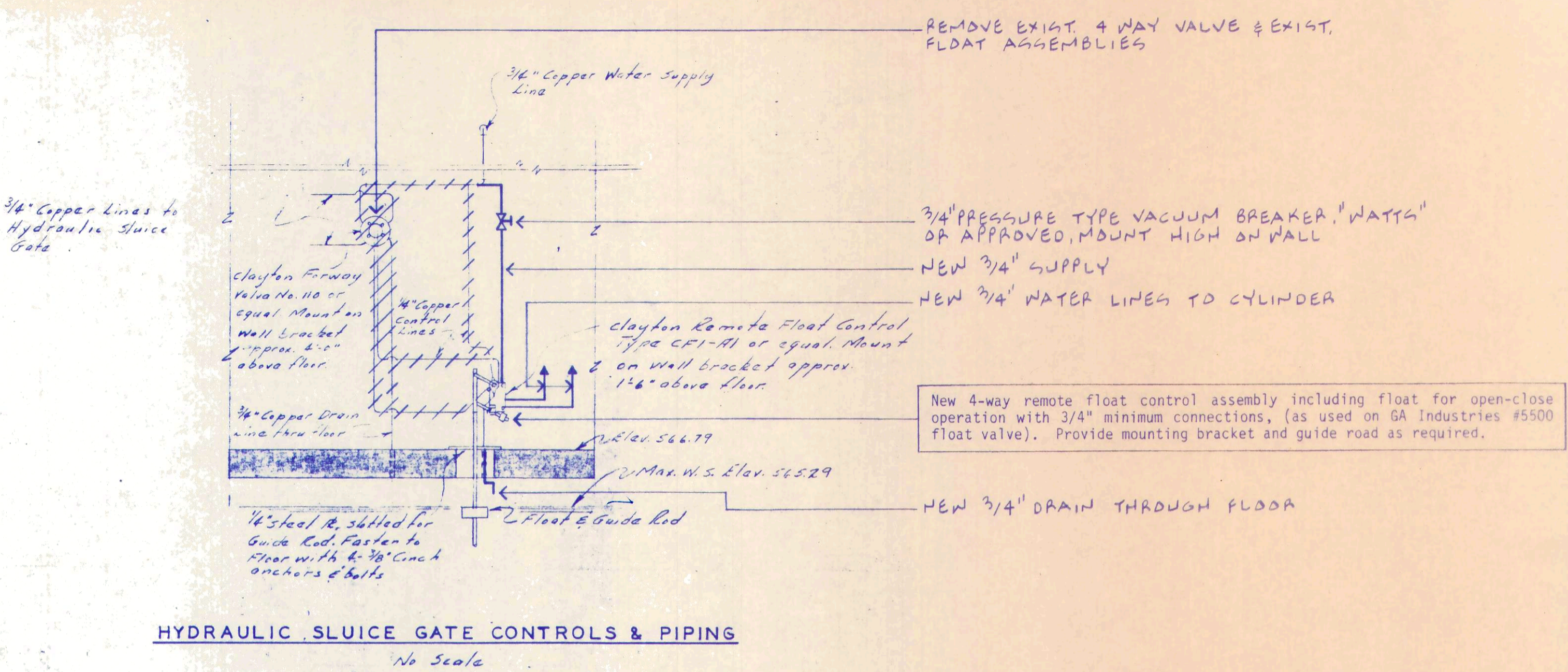


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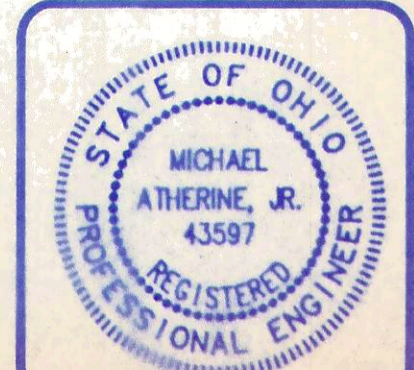
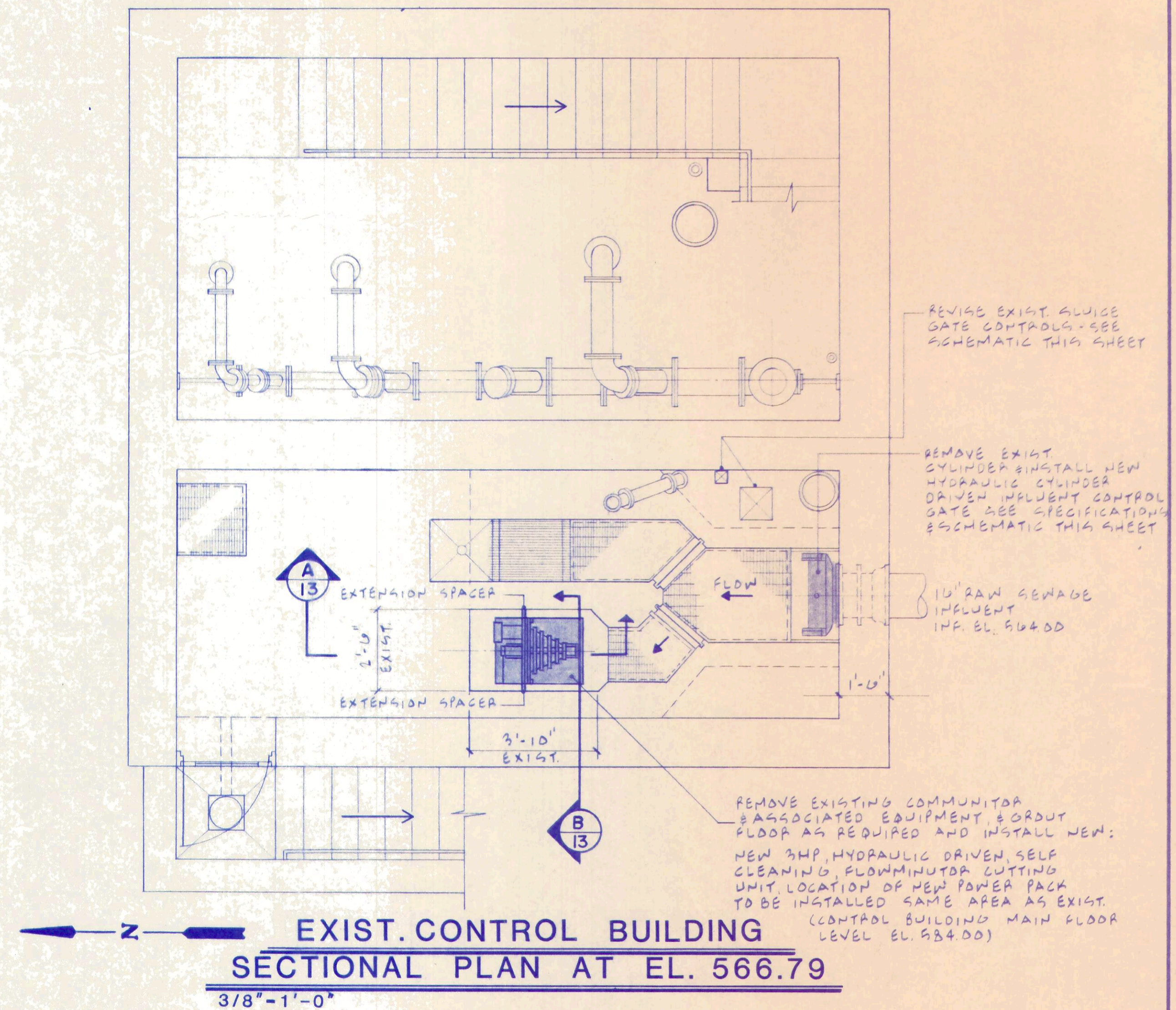
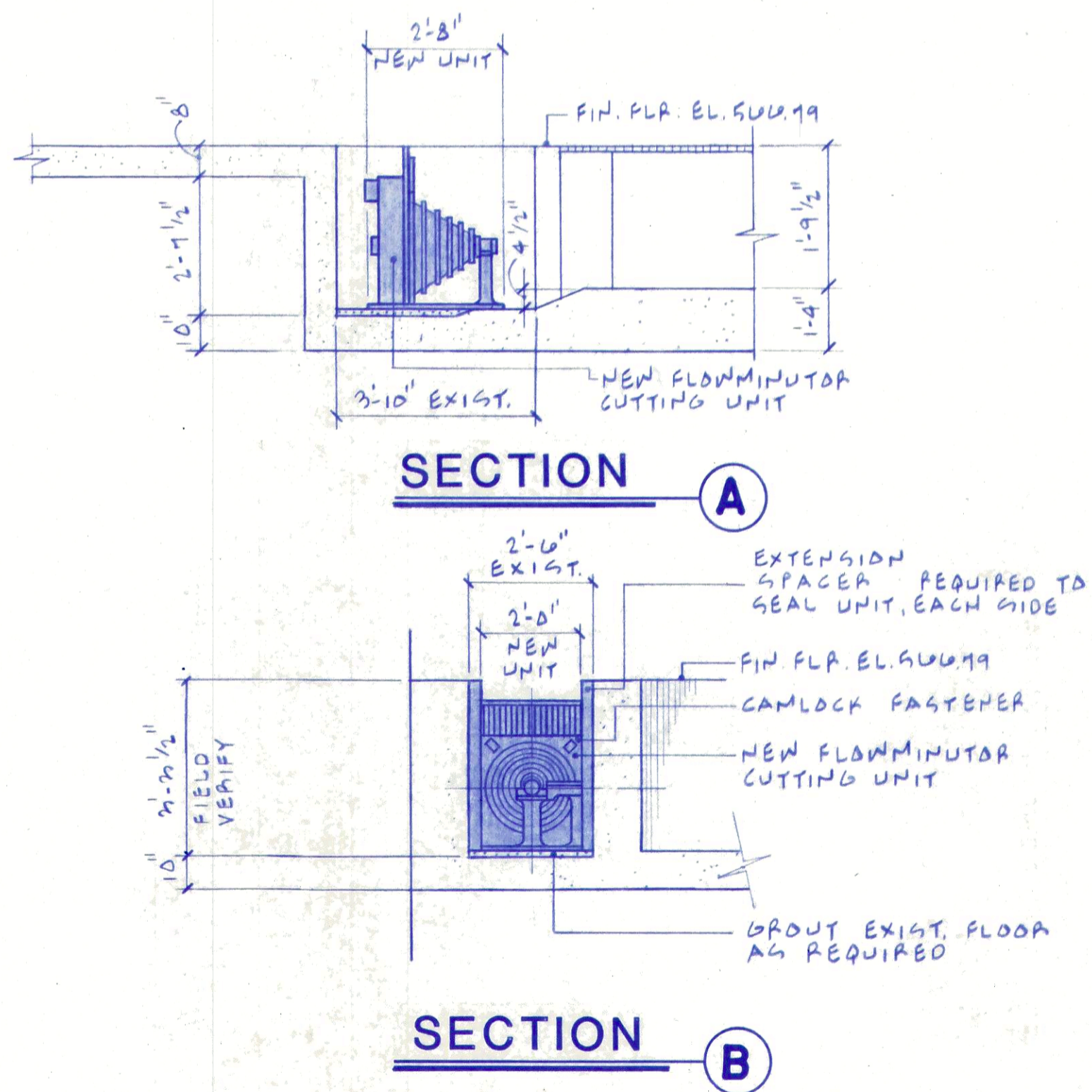
EXIST. CONTROL BUILDING



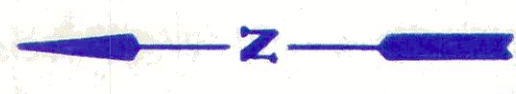
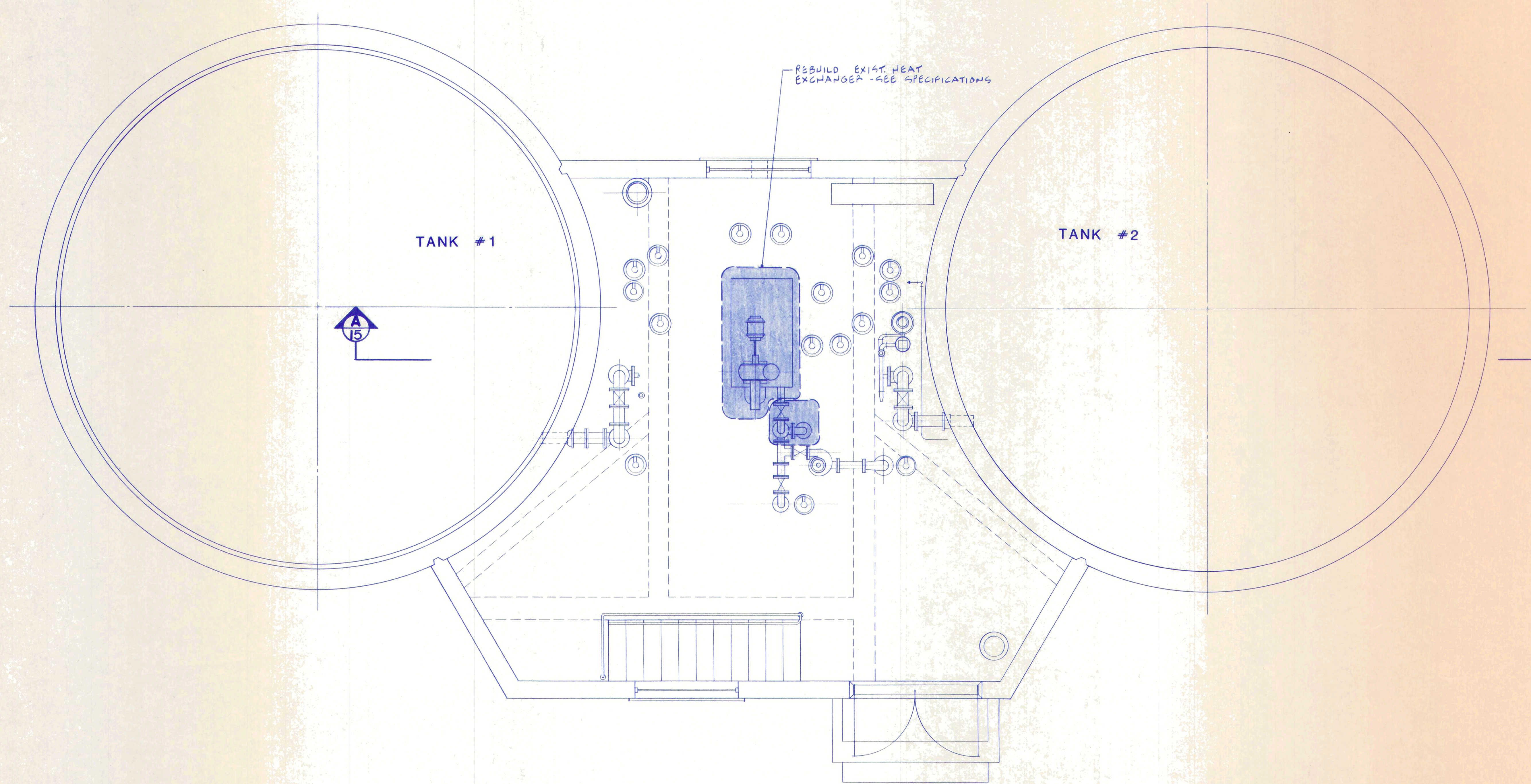
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CHECKED BY	
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SCHEMATIC - REVISION TO EXISTING SLUICE GATE CONTROLS

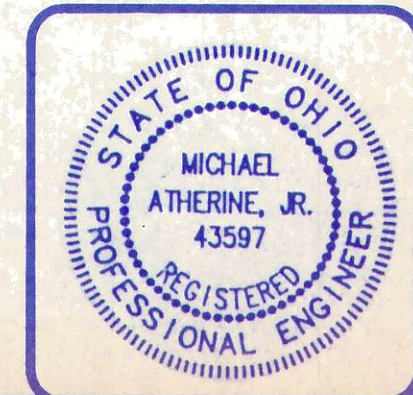


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FIRST FLOOR PLAN EXIST. SLUDGE DIGESTION TANKS

3/8"=1'-0"



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EXIST. SLUDGE DIGESTION TANKS

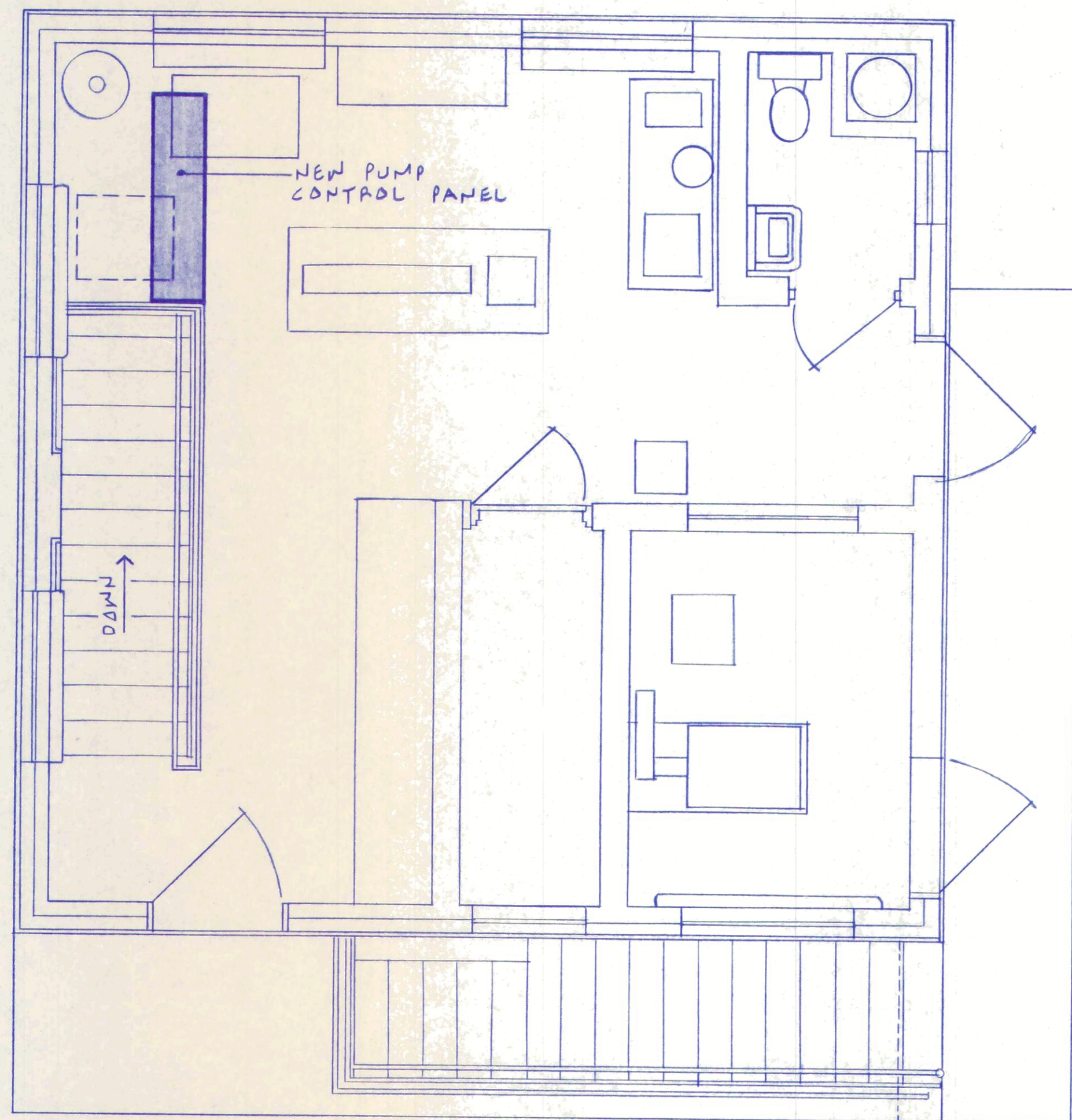
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18
JOB NUMBER
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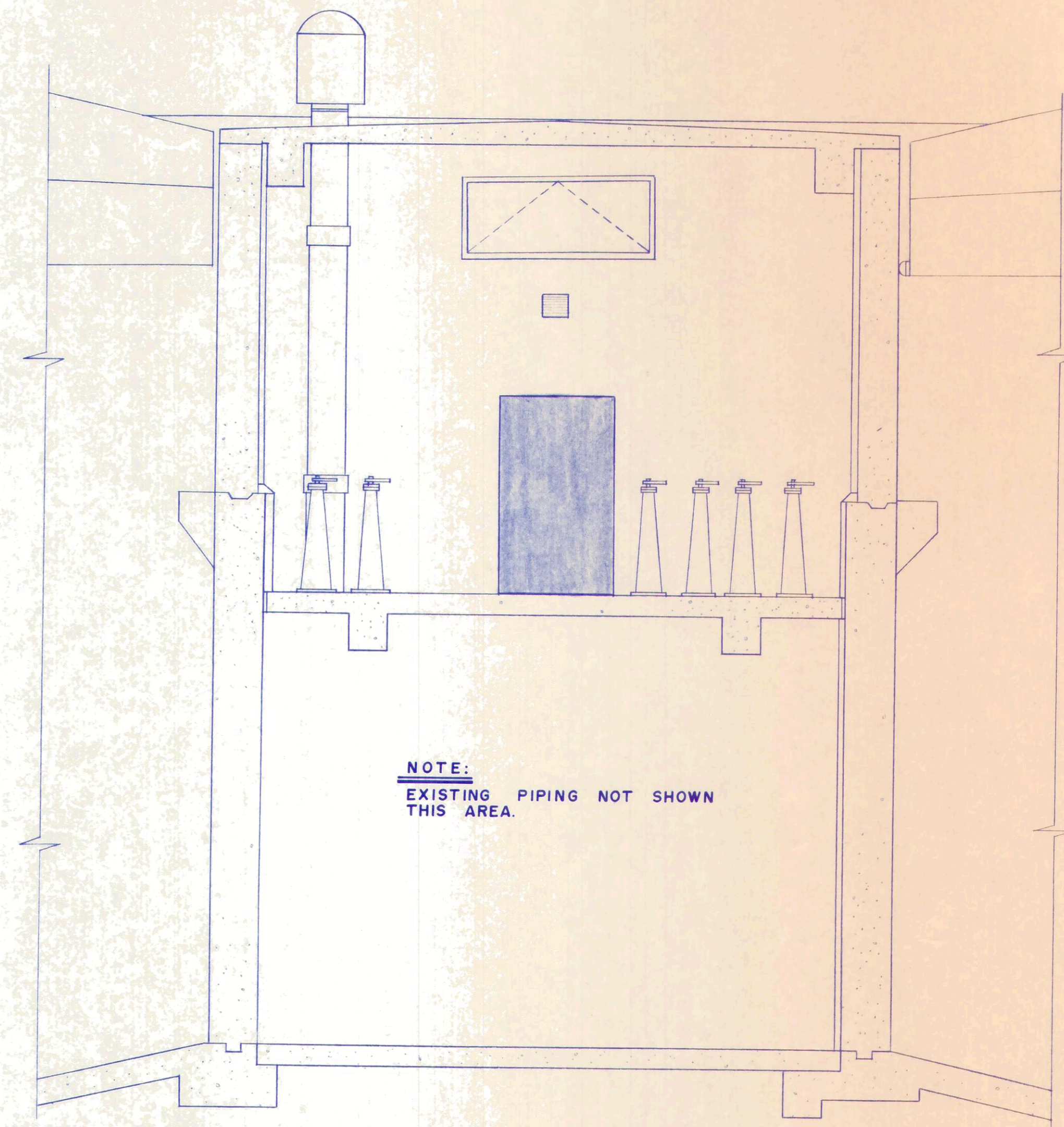


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PLANT IMPROVEMENTS
OAK HARBOR, OHIO**

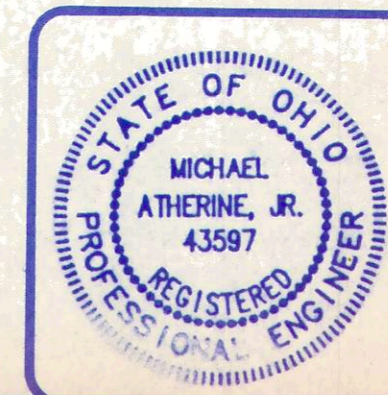


SECTIONAL PLAN AT ELEV. 584.00
3/8" - 1' - 0"



NOTE:
EXISTING PIPING NOT SHOWN
THIS AREA.

SECTION A
EXIST.
3/8" - 1' - 0"



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EXIST. SLUDGE DIGESTION TANKS



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**WASTEWATER TREATMENT
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OAK HARBOR, OHIO**

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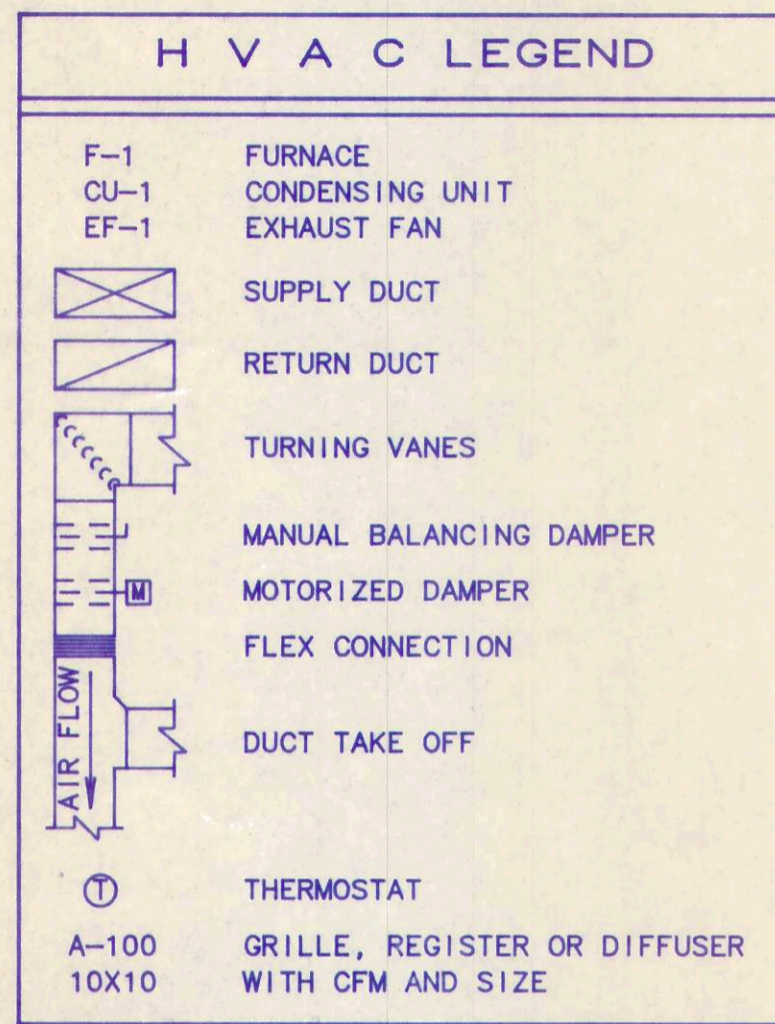
15
18
JOB NUMBER
1590-008

GRILLE, REGISTER & DIFFUSER SCHEDULE				
MARK	A	B	C	D
TYPE	CEILING SUPPLY	CEILING SUPPLY	CEILING RETURN	SIDEWALL SUPPLY
STYLE	ADJ. LOUVER	ADJ. LOUVER	EGGCRATE	ADJ. LOUVER
DEFLECTION	4-WAY	2-WAY OPPOSITE	N/A	DBL. DEFLECTION
DAMPER	O.B.D.	O.B.D.	NO	FACE OPERATED
FINISH	OFF-WHITE	OFF-WHITE	OFF-WHITE	OFF-WHITE
MANUFACTURER	TITUS	TITUS	TITUS	TITUS
MODEL	250	250-S2	50F	272RS
REMARKS	-SURFACE FLANGE	-SURFACE FLANGE	-SURFACE FLANGE	-DUCT MOUNTED

FAN SCHEDULE	
MARK	EF-1
LOCATION	106
AIR FLOW CFM	365
● EXT. STATIC PRESS.	.250
MOTOR WATTS/HP	130
ELECTRICAL CHAR.	115-1-60
DRIVE	DIRECT
FAN RPM	1050
BACKDRAFT DAMPER	INTREGAL
MAX. (SONES)	4.0
FAN TYPE	CEILING
WEIGHT (LBS)	36
MANUFACTURER	PENN
MODEL	Z10
REMARKS	-AIRMINDER SWITCH -SL20 ROOF CAP

FURNACE SCHEDULE	
MARK	F-1
LOCATION	MECH. RM
MANUFACTURER	TRANE XL80
STYLE	UP-FLOW
FURNACE-MODEL	BLU070J936A
HEAT-INPUT (BTUH)	70,000
-OUTPUT (BTUH)	57,000
BLOWER-HP	1/3
-VOLTAGE	115-1-60
-CFM (TOTAL)	1200
-CFM (OSA)	50
-ESP (INCHES)	.3
WEIGHT (LBS)	150
A/C COIL	
-BTUH	26,00
-E.A.T. (°F)	77 db/65 wb
CONDENSING UNIT	CU-1
MODEL	TTD730B100A
VOLTAGE	230-1-60
MIN. BR CIR AMPACITY	25
OUTDOOR db (°F)	95
EER	9.2
WEIGHT (LBS)	160
REMARKS	-PROGRAMMABLE WALL T-STAT -REFRIGERANT LINE SETS -LOW AMBIENT -TYPE "A" COOLING COIL ENCLOSURE

ENERGY CODE COMPLIANCE SCHEDULE		
LOCATION: OAK HARBOR, OHIO		
NORTH LATITUDE: 42° DEGREE DAYS: 6494		
DESIGN CONDITIONS:		
SUMMER:	88 °F db	75 °F wb
WINTER:	1 °F db	
BUILDING ENVELOPE TO COMPLY WITH CODE:		
WALLS	1258 sq. ft. gross area X .265	U _o = 333 BTU/Deg.
ROOF	1010 sq. ft. gross area X .072	U _o = 73 BTU/Deg.
406 BTU/Deg.		
BUILDING ENVELOPE AS DESIGNED		
WALL-A	1161 sq. ft. net area X .16	U= 186 BTU/Deg.
DOOR-A	30 sq. ft. net area X .42	U= 13 BTU/Deg.
GLASS-A	55 sq. ft. net area X .65	U= 36 BTU/Deg.
GLASS-B	12 sq. ft. net area X 1.13	U= 14 BTU/Deg.
ROOF-A	1010 sq. ft. net area X .05	U= 51 BTU/Deg.
300 BTU/Deg.		
BUILDING ENVELOPE AS DESIGNED IS: 300 BTU/Deg. WHICH IS LESS THAN 406 BTU/Deg. AS ALLOWED BY CODE.		
INFILTRATION: AS DESIGNED: ALLOWED:		
DOOR-A	5.4 CFM/Ft.	11.0 CFM/Ft.
GLASS-A	.35 CFM/Ft.	0.5 CFM/Ft.
OTTV WALLS	AS DESIGNED: 11.7	MAXIMUM ALLOWED: 33.8
OTTV ROOF	AS DESIGNED: 2.2	MAXIMUM ALLOWED: 8.5
EER	AS DESIGNED: 9.2	MINIMUM ALLOWED: 7.8

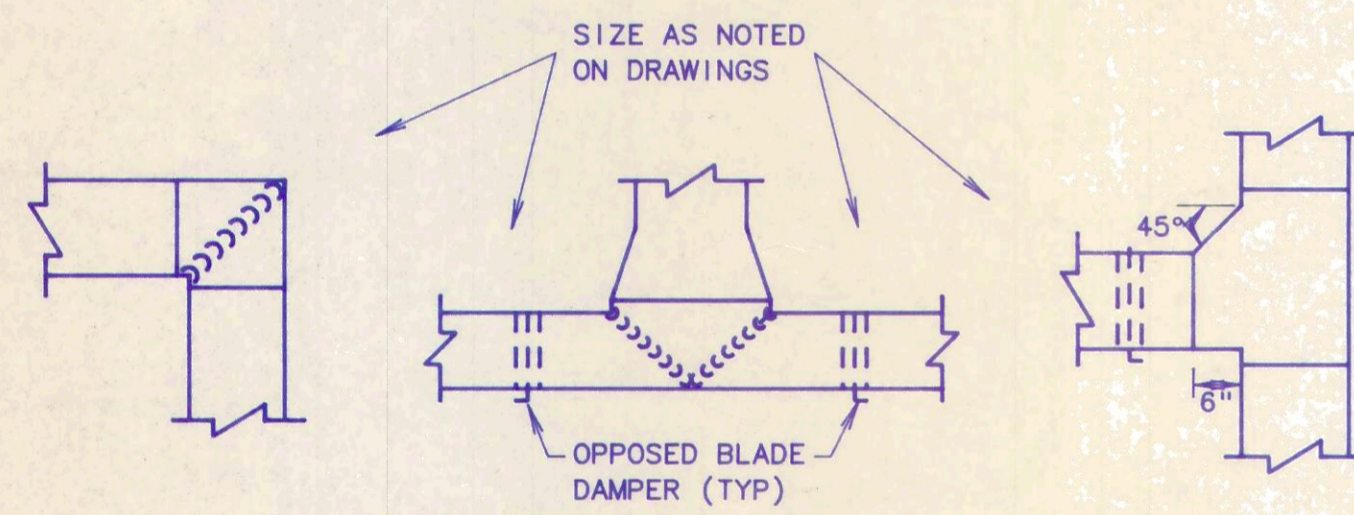


GENERAL NOTES - HVAC

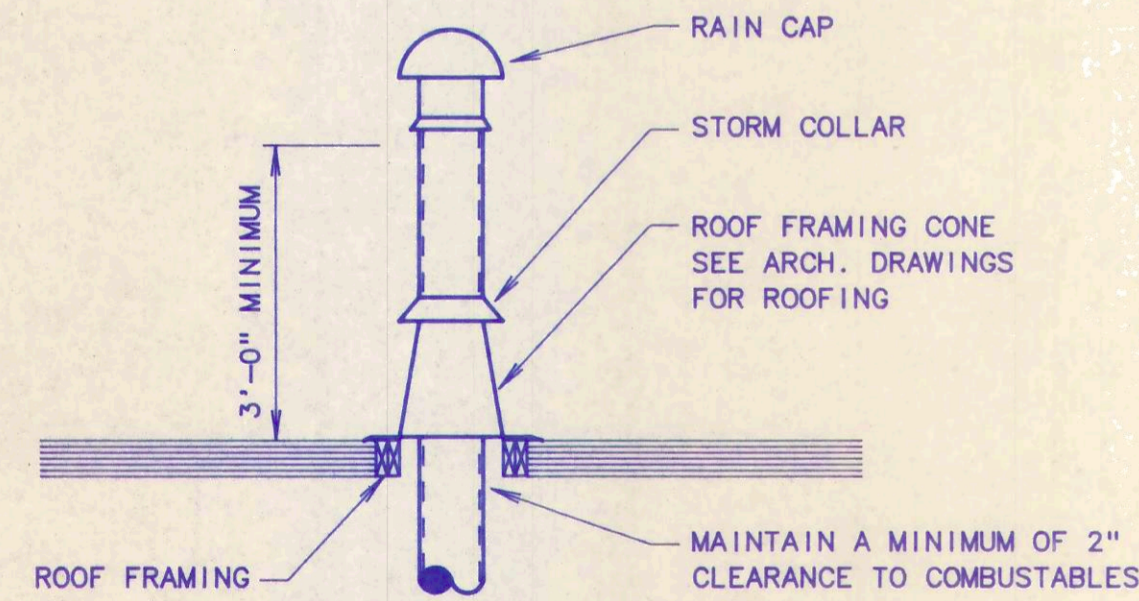
- ALL SUPPLY AND RETURN AIR DUCTS SHALL HAVE ONE INCH THICK DUCT LINER. DUCT DIMENSIONS SHOWN ARE NET FREE AREA REQUIRED. INCREASE DUCT DIMENSIONS BY TWO INCHES FOR WIDTH AND HEIGHT. DUCTS IN ATTIC TO HAVE AN ADDITIONAL TWO INCHES OF EXTERNAL DUCT WRAP.
- THE MECHANICAL CONTRACTOR SHALL FURNISH AND INSTALL HOUSEKEEPING PADS FOR ALL EQUIPMENT SET ON THE FLOOR OR ON GRADE UNLESS OTHERWISE NOTED TO BE BY THE GENERAL CONTRACTOR.
- ALL PIPES PASSING THRU WALLS AND FLOORS SHALL HAVE PIPE SLEEVES. IN MECHANICAL EQUIPMENT ROOMS, ETC. AND AREAS WHERE THERE ARE FLOOR DRAINS, THE MECHANICAL CONTRACTOR SHALL INSTALL A 3 INCH THICK CONCRETE CURB ENCASING THE SLEEVES AT THE FLOOR.
- ALL DUCT JOINTS AND SEAMS (LONGITUDINAL AND TRANSVERSE) SHALL BE SEALED WITH DUCT SEALANT. SEE SPECIFICATIONS.
- ALL CUTTING AND PATCHING OF WALLS, FLOORS, CEILINGS, ETC. IS TO BE COMPLETED BY THE MECHANICAL CONTRACTOR UNLESS OTHERWISE NOTED.
- ALL SQUARE ELBOW DUCT TURNS SHALL BE EQUIPPED WITH TURNING VANES. VANES SHALL BE DUAL BLADE TYPE.

REFERENCE NOTES (SHEET M-1)

- SUPPLY AND RETURN AIR DUCT TO HAVE FLEXIBLE CONNECTION AT F-1. PIPE CONDENSATE TO FLOOR DRAIN.
- CONNECT 3" DIA. WATER HEATER AND 3" DIA. FURNACE FLUES TO A COMMON 5" DIA. FLUE THRU ROOF. SEE FLUE THRU ROOF DETAIL.
- 24X8 WALL LOUVER TO BE EQUIVALENT TO "CONSTRUCTION SPECIALTIES INC." STANDARD BLOCK VENT 33EX W/ 90 SQ. IN. FREE AREA. USE AS COMMON COMBUSTION AND OUTSIDE AIR LOUVER. INSTALL APPROX. 7 FT. ABOVE GRADE. SEE DETAIL.

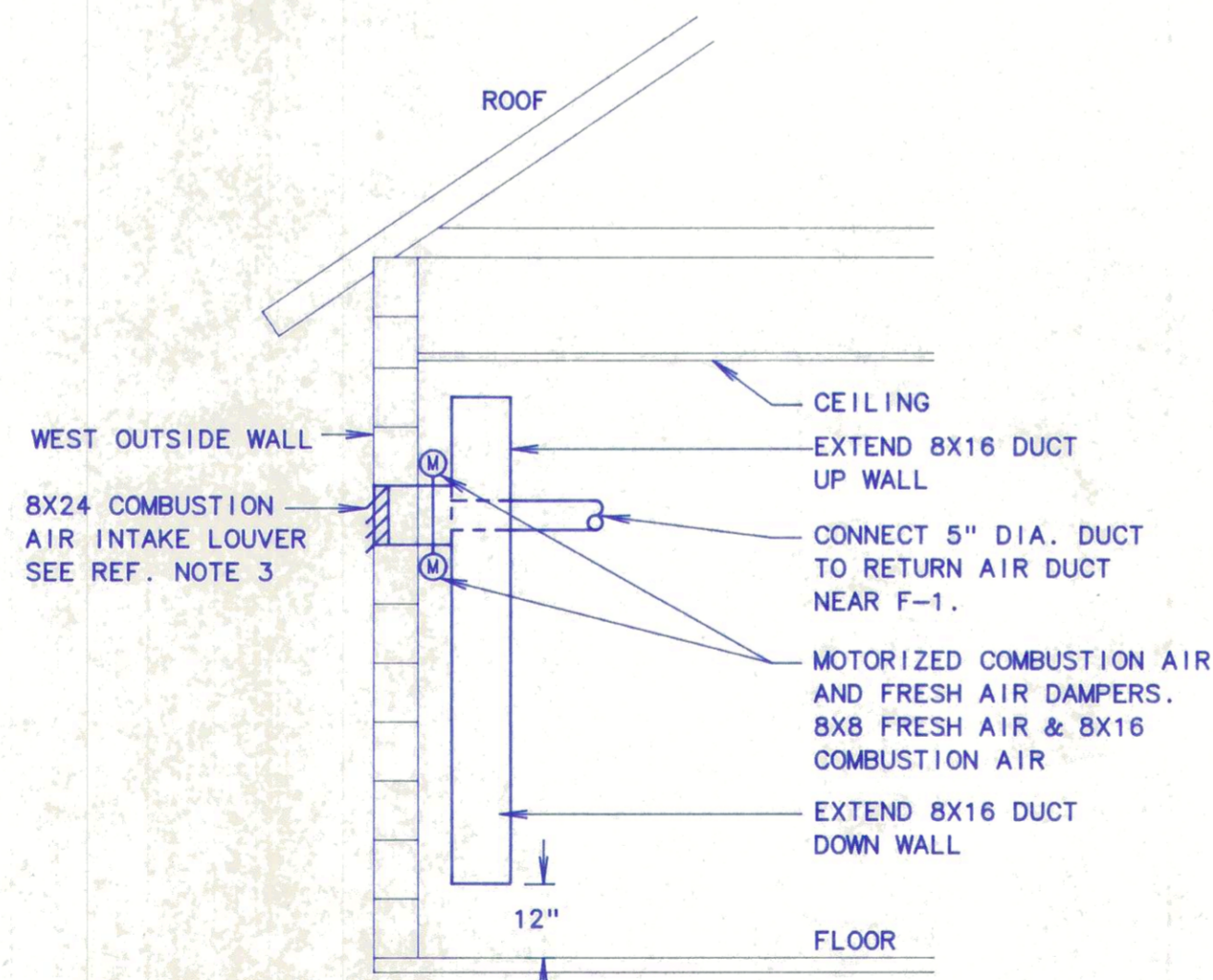


DUCT TRANSITION DETAILS
NO SCALE

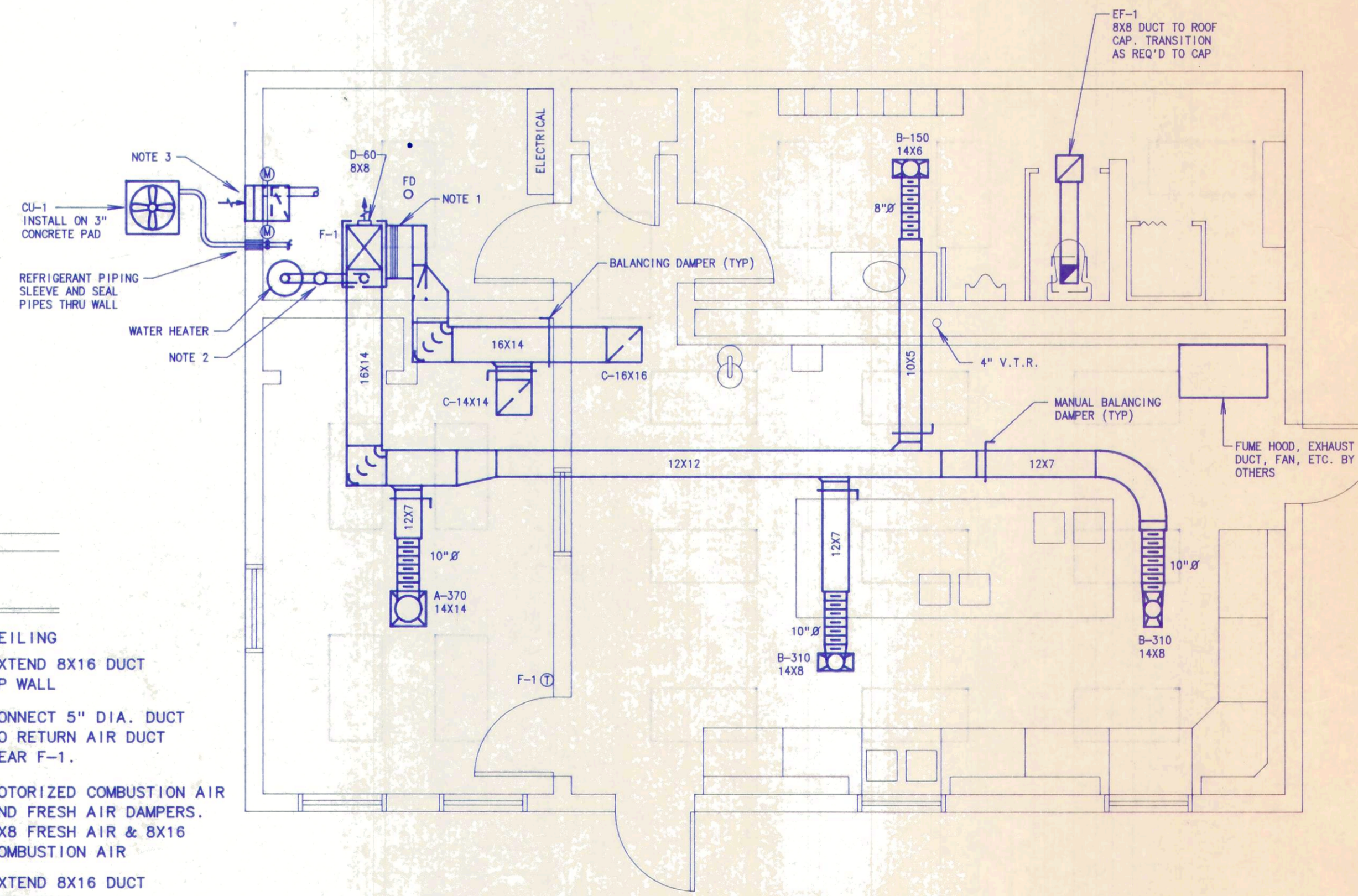


TYPE "B" FLUE THRU-ROOF DETAIL
NO SCALE

NOTE: DOUBLE WALL FLUE STACK EQUAL TO METALBESTOS MODEL RV. OR EQUAL TYPE "B" INSTALLATION

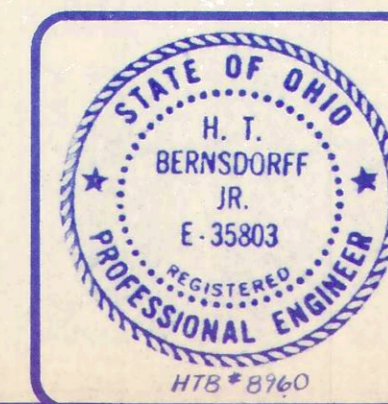


COMBUSTION AIR INTAKE LOUVER DETAIL
NO SCALE



FLOOR PLAN

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



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HVAC PLAN & DETAILS



POGGE MEYER DESIGN GROUP, INC.
ARCHITECTS • ENGINEERS • PLANNERS
121 E. WOOSTER STREET
BOWLING GREEN, OHIO 43402

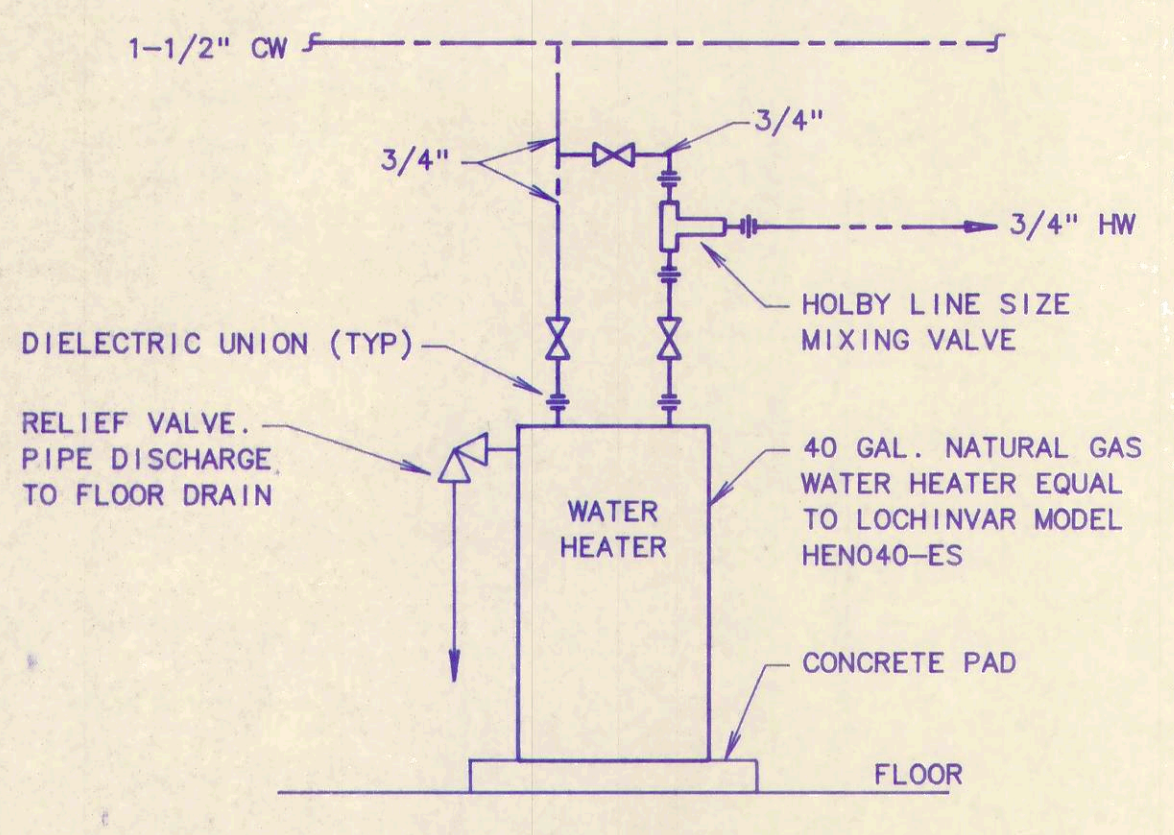
WASTEWATER TREATMENT PLANT IMPROVEMENTS
OAK HARBOR, OHIO

DATE	
CHECKED BY	
DRAWN BY	
REVISION	

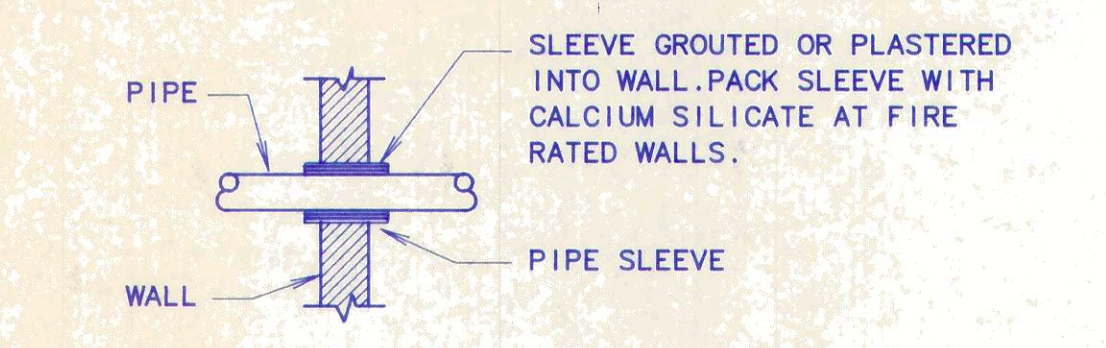
M-1
OF 1
JOB NUMBER
1590-008



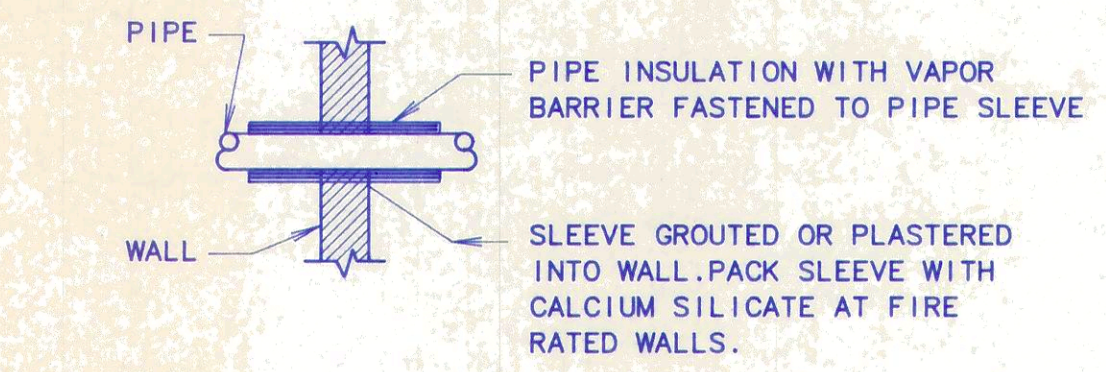
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WATER HEATER PIPING DIAGRAM
 NO SCALE



UN-INSULATED PIPE THRU WALL DETAIL
 NO SCALE



INSULATED PIPE THRU WALL DETAIL
 NO SCALE

GENERAL NOTES - PLUMBING

- FOR CLEANOUT COVER TYPES FOR VARIOUS FLOOR FINISHES, REFER TO SPECIFICATIONS.
- THE PLUMBING CONTRACTOR SHALL FURNISH AND INSTALL HOUSEKEEPING PADS FOR ALL EQUIPMENT SET ON THE FLOOR OR ON GRADE UNLESS OTHERWISE NOTED TO BE BY THE GENERAL CONTRACTOR.
- ALL PIPES PASSING THRU WALLS AND FLOORS SHALL HAVE PIPE SLEEVES. IN MECHANICAL EQUIPMENT ROOMS, ETC. AND AREAS WHERE THERE ARE FLOOR DRAINS, THE PLUMBING CONTRACTOR SHALL INSTALL A 3 INCH THICK CONCRETE CURB ENCASING THE SLEEVES AT THE FLOOR.
- CONNECT GAS LINES TO GAS FIRED EQUIPMENT WITH GAS COCK VALVE, DIRT LEG AND UNION.

PLUMBING LEGEND

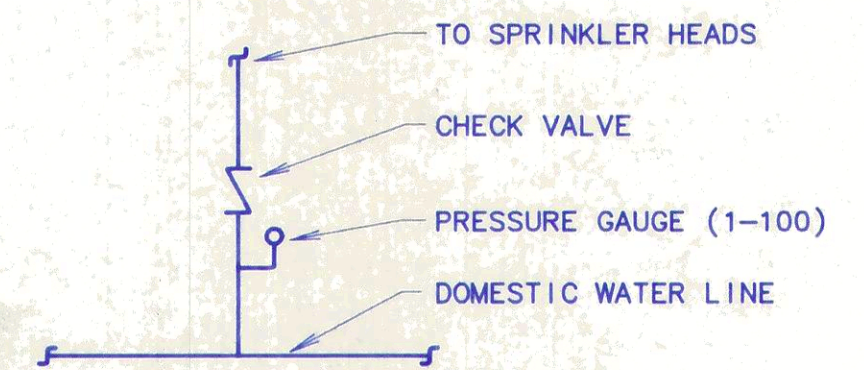
	SANITARY BELOW FLOOR VENT
	COLD WATER (CW)
	HOT WATER (HW)
	NATURAL GAS
	WATER HAMMER ARRESTOR (WHA)
	SHUTOFF VALVE
	CHECK VALVE
	UNION
	SPRINKLER HEAD
	GAS COCK VALVE
	VENT THRU ROOF
	CLEAN OUT
	PLUMBING FIXTURES-SEE SPECS
	FLOOR DRAIN
	FIRE EXTINGUISHER

PLUMBING FIXTURE SCHEDULE

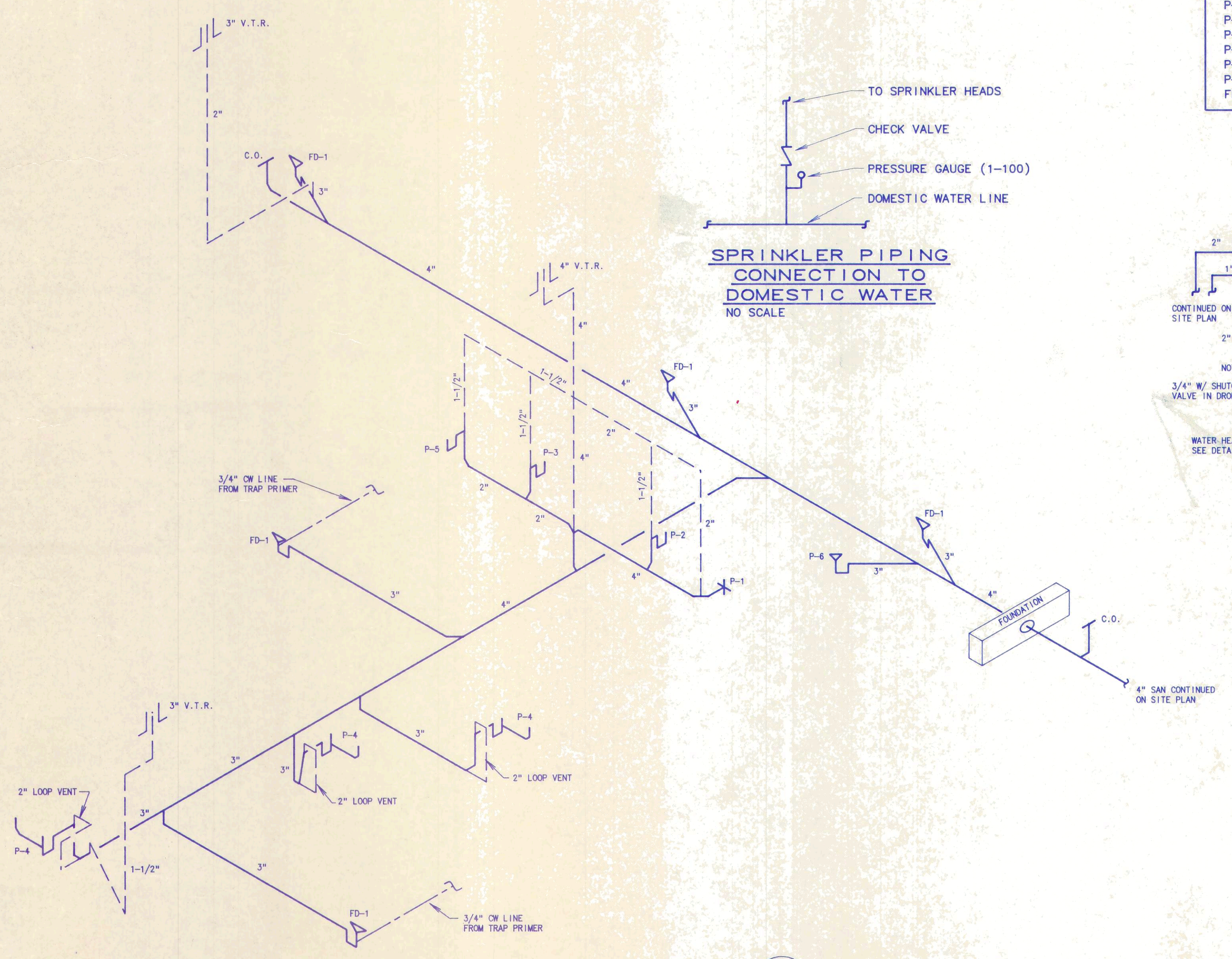
P-1	WATER CLOSET-WALL HUNG-FLUSH VALVE
P-2	URINAL-WALL HUNG
P-3	LAVATORY-COUNTERTOP
P-4	SINK-DOUBLE BOWL-COUNTERTOP
P-5	ELECTRIC WATER COOLER-WALL MOUNTED
P-6	SHOWER STALL & FIXTURES
P-7	FREEZEPROOF HOSE BIBB
FD-1	FLOOR DRAIN

REFERENCE NOTES (SHEET P-1)

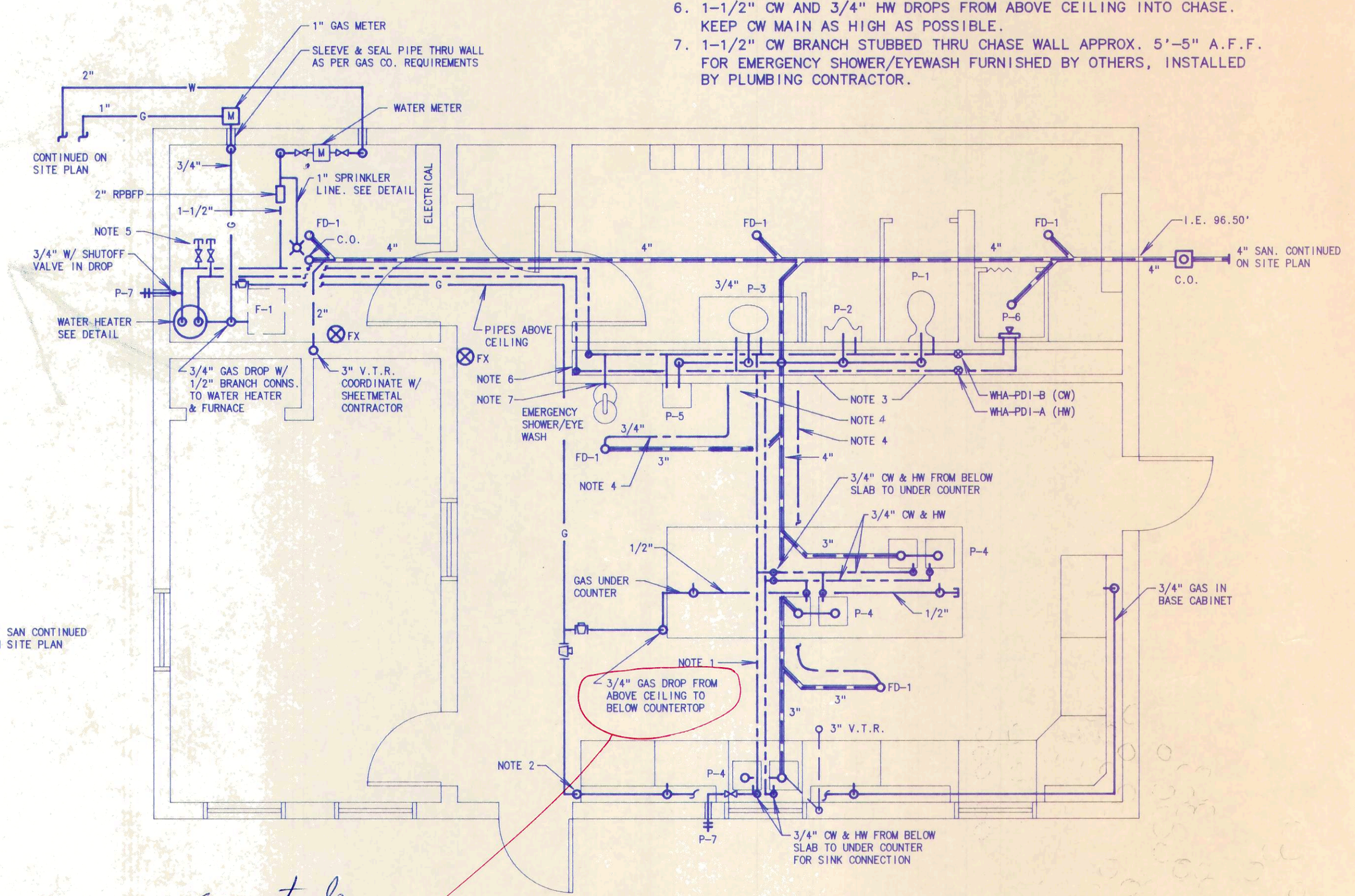
- ALL INTERIOR UNDERGROUND CW & HW PIPING TO BE TYPE "K" SOFT COPPER ASTM B88.
- 3/4" GAS DROP ALONG WALL TO BELOW CABINET COUNTERTOP. RUN 3/4" LINE IN CABINET TO OUTLETS. GAS COCK OUTLETS FURNISHED BY OTHERS, INSTALLED BY PLUMBING CONTRACTOR.
- 1-1/2" CW & 3/4" HW HEADERS IN CHASE. INSTALL 3/4" CW DROPS TO EWC, LAVATORY, URINAL AND SHOWER. INSTALL 1-1/4" CW DROP TO FLUSH VALVE. INSTALL 3/4" HW DROP TO LAVATORY AND SHOWER. INSTALL 3/4" CW & HW DROPS TO BELOW FLOOR SERVING ISLAND AND SOUTH WALL SINKS WITH SHUTOFF VALVES. PROVIDE ACCESS DOOR FOR VALVES. LOCATE TO PROVIDE PROPER ACCESS.
- 3/4" CW PIPE BELOW FLOOR TO FLOOR DRAIN IN LAB. TRAP PRIMER SHALL BE CONNECTED TO 1-1/2" CW HEADER IN CHASE W/ 2 BRANCH DROPS TO BELOW FLOOR.
- 3/4" CW & HW W/ SHUTOFF VALVES TO "WATER STILL". COORDINATE LOCATION WITH ARCHITECT.
- 1-1/2" CW AND 3/4" HW DROPS FROM ABOVE CEILING INTO CHASE. KEEP CW MAIN AS HIGH AS POSSIBLE.
- 1-1/2" CW BRANCH STUBBED THRU CHASE WALL APPROX. 5'-5" A.F.F. FOR EMERGENCY SHOWER/EYEWASH FURNISHED BY OTHERS, INSTALLED BY PLUMBING CONTRACTOR.



SPRINKLER PIPING CONNECTION TO DOMESTIC WATER
 NO SCALE

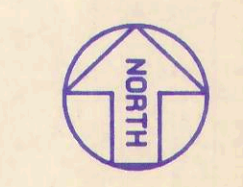


SANITARY ISOMETRIC
 NO SCALE

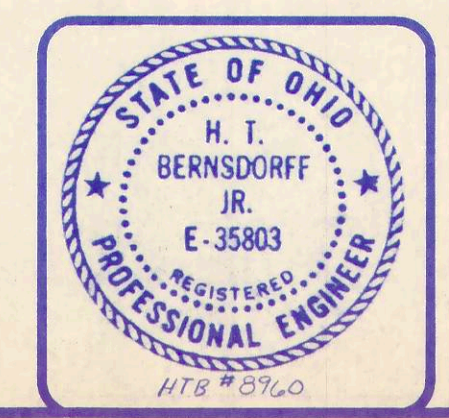


FLOOR PLAN

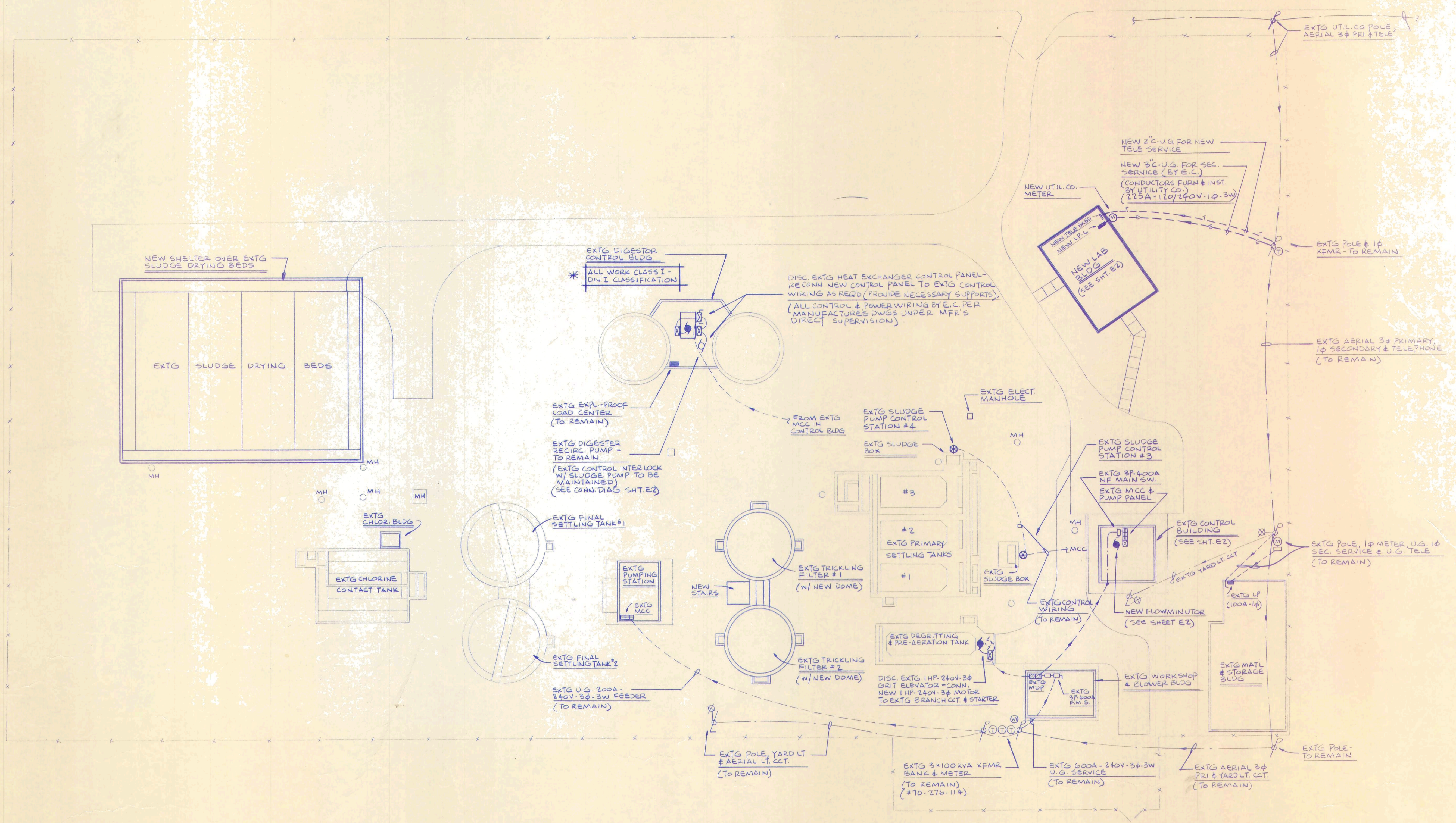
SCALE: 1/4" = 1'-0"
 FIN. FL. ELEV. = 100.00'



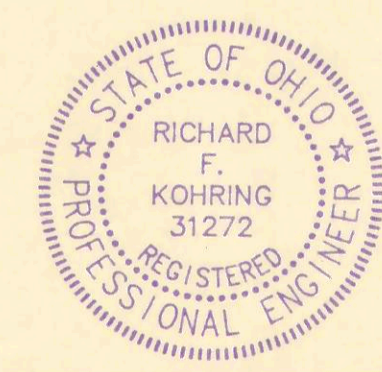
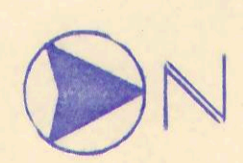
*can not do
 would like to run under floor if possible so drop is not coming down from ceiling in middle of room. If it has to be dropped from ceiling, would like for it to be at other end of island.*



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SITE PLAN
SCALE: 1"=20'



REVISIONS	DATE	BY	DESCRIPTION

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