

SEWAGE TREATMENT PLANT

FOR

GALENA, OHIO

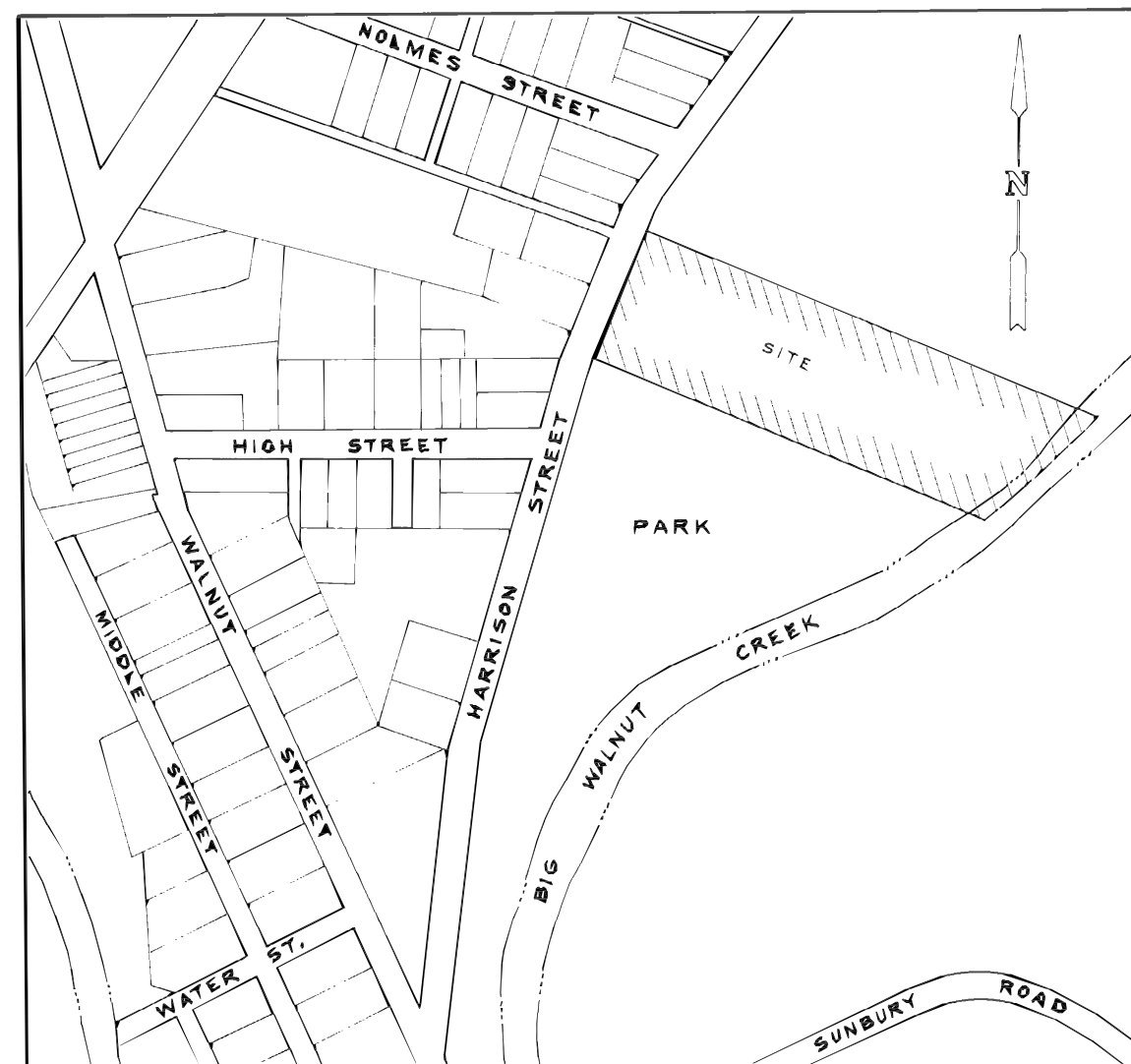
1994

GALENA UTILITIES

UNITED TELEPHONE CO.
P.O. BOX 1031
PATASKLA, OHIO 43062

COLUMBUS SOUTHERN POWER CO.
215 N. FRONT ST.
COLUMBUS, OHIO 43215-2291

COLUMBIA GAS CO.
68 N. SANDUSKY ST.
P.O. BOX 1020
DELAWARE, OHIO 43015-1020




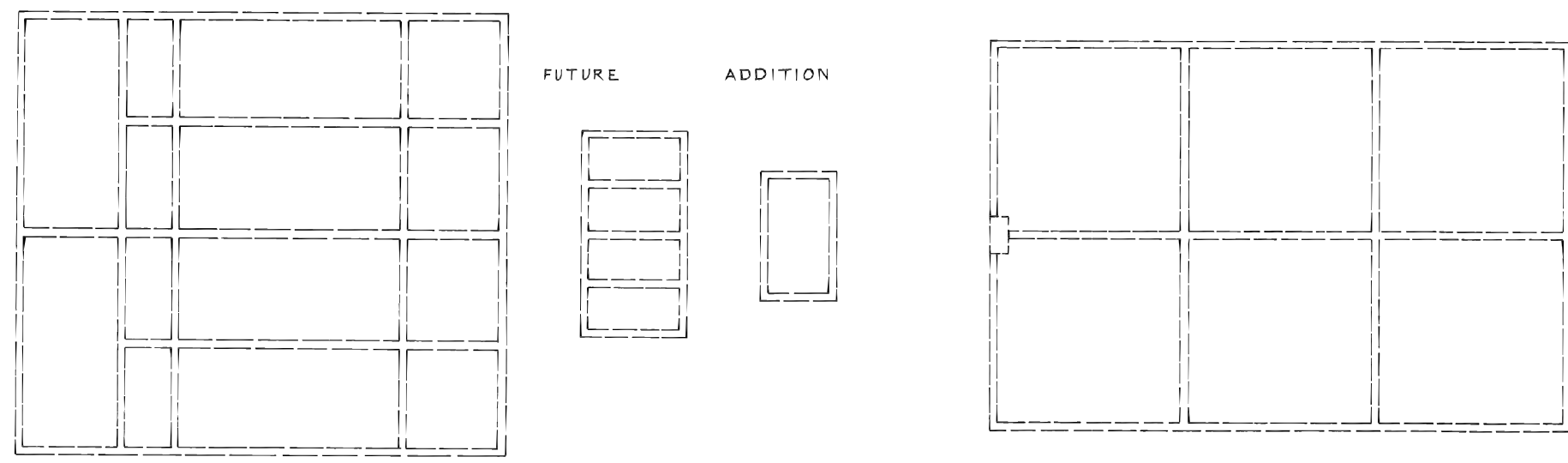
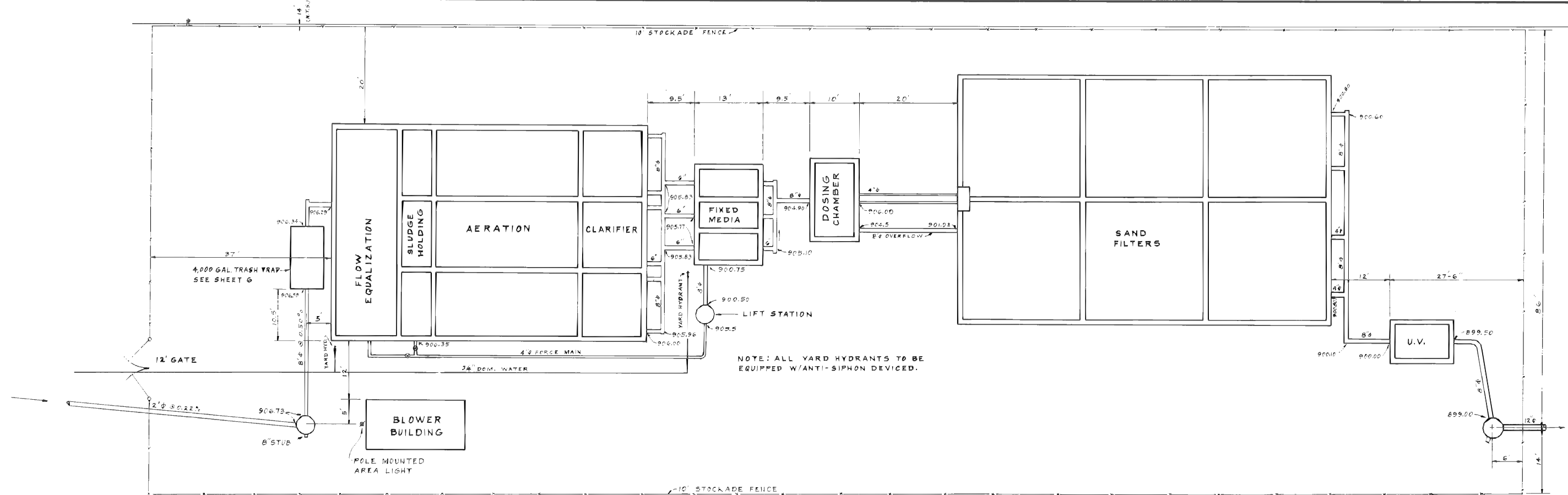
LOCATION MAP

APPROVED:


<i>Frank E. Williams</i>	3/14/94
MAYOR, VILLAGE OF GALENA, OHIO	DATE
<i>Jack Smelker</i>	3/14/94
DELAWARE COUNTY SANITARY ENGINEER	DATE
<i>Roy Jackson</i>	3-14-94
DELAWARE COUNTY COMMISSIONER	DATE
<i>Frank Peruto</i>	3-14-94
DELAWARE COUNTY COMMISSIONER	DATE
<i>Melvin Sheetz</i>	3-14-94
DELAWARE COUNTY COMMISSIONER	DATE

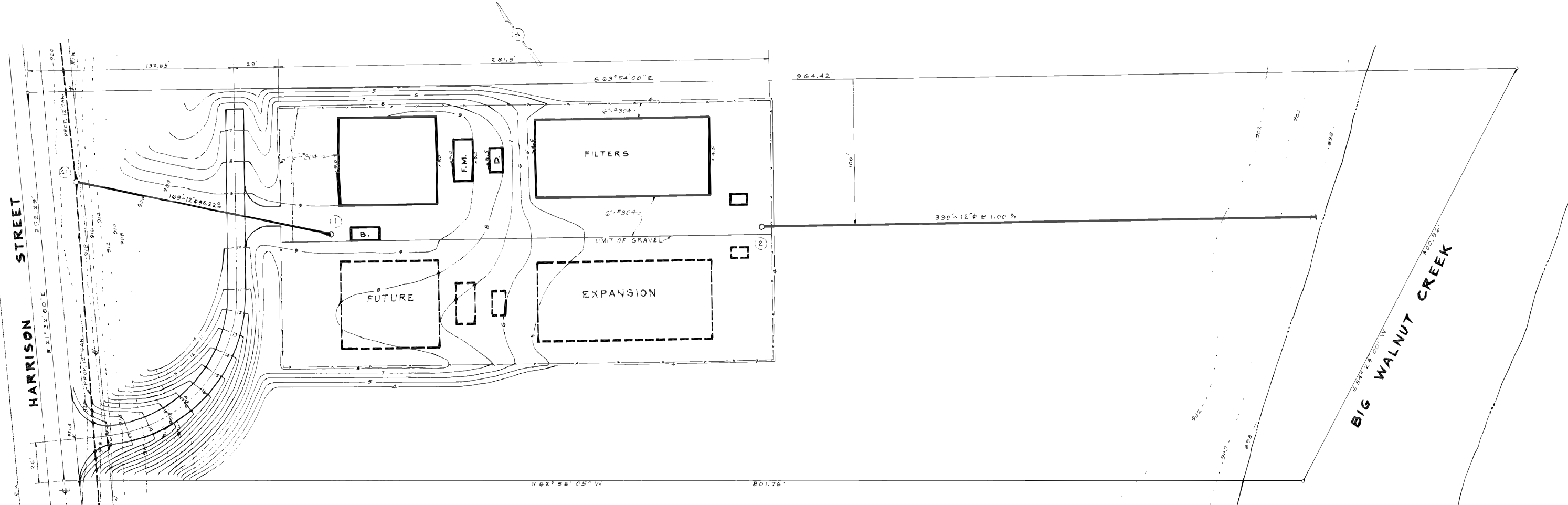
BY *Charles R. Wolfe*
REGISTERED ENGINEER NO. 33196

 WOLFE ENGINEERING 4846 FRESHWATER ROAD DELAWARE, OHIO 43015			
GALENA, OHIO			
DELAWARE COUNTY			
SEWAGE TREATMENT PLANT			
SCALE AS SHOWN	DATE 1-21-94	DRAWN BY CRW	DWG. NO. 1 OF 6



SITE LAYOUT

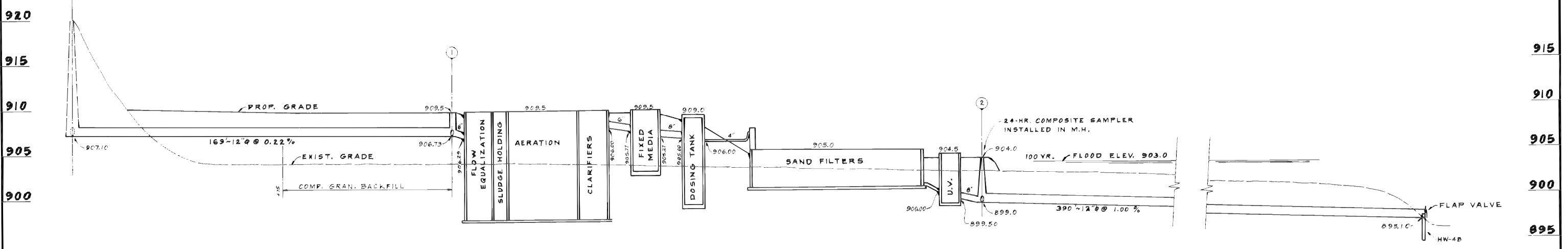
 WOLFE ENGINEERING 4846 FRESHWATER ROAD DELAWARE, OHIO 43015			
GALENA, OHIO			
DELAWARE COUNTY SEWAGE TREATMENT PLANT			
SCALE	DATE	DRAWN BY	DWG NO
1"=10'	1-21-94	CRW	2 OF 6




SEE SHEET NO. 6
FOR ENTRANCE
DRIVE DETAILS

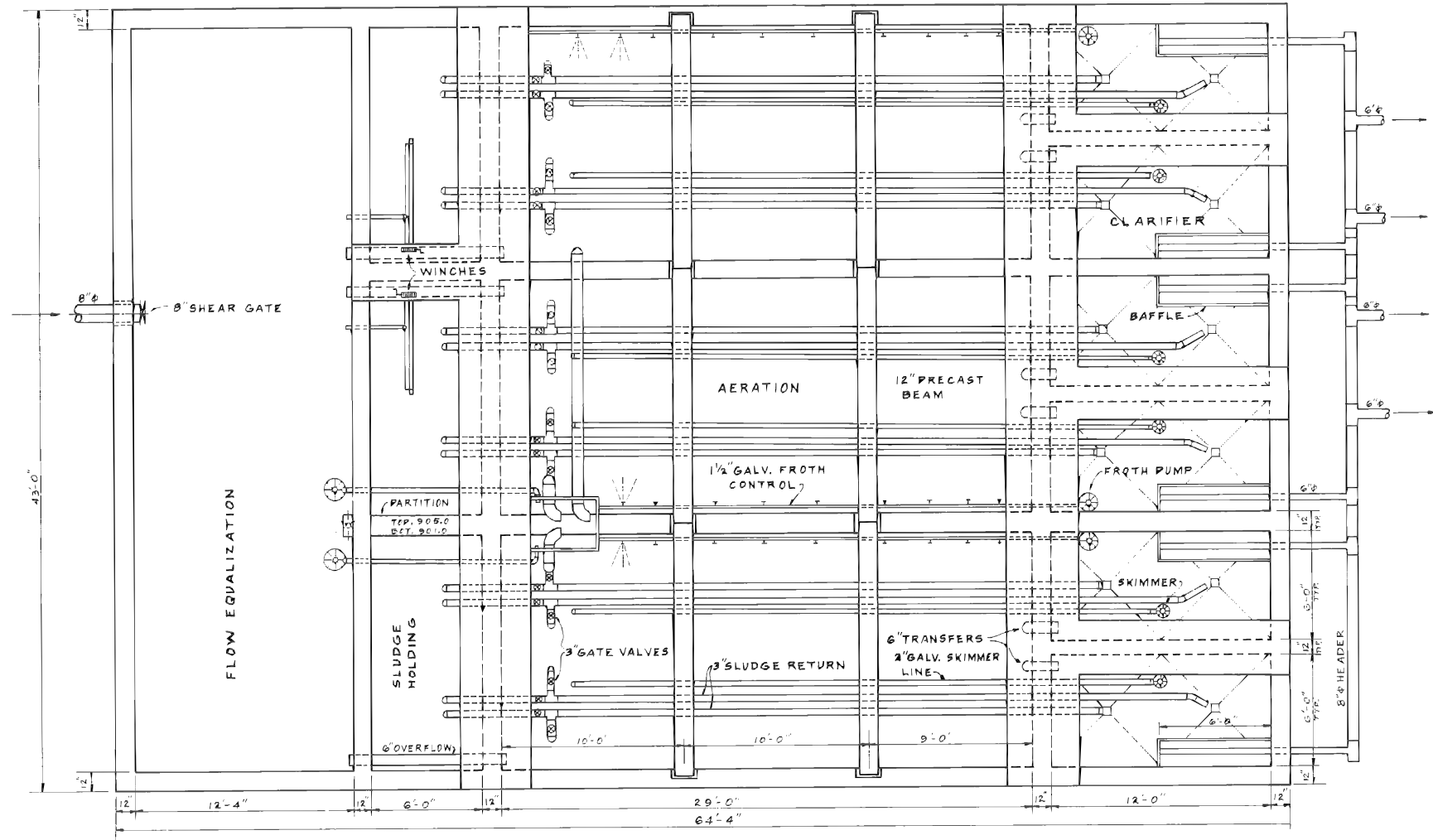
PLAN
SCALE: 1"=30'

NOTE: ALL GRAVITY LINES BELOW M.H. NO. 1
SHALL BE CL. 50 DUCTILE IRON UNLESS
OTHERWISE NOTED.

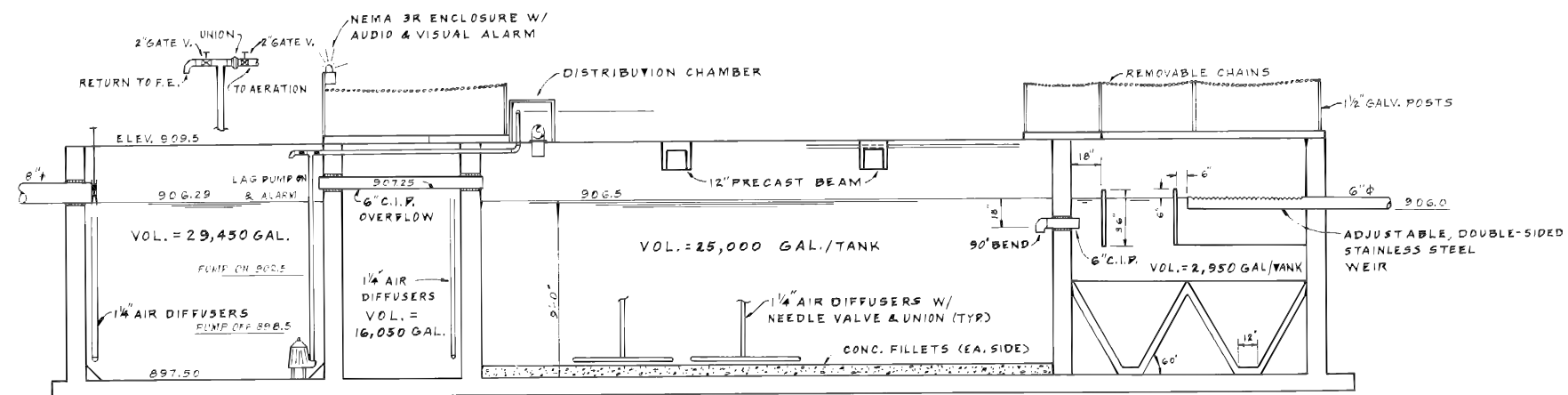


PROFILE
SCALE: HOR. 1"=20'
VERT. 1"=5'

 WOLFE ENGINEERING 4846 FRESHWATER ROAD DELAWARE, OHIO 43015			
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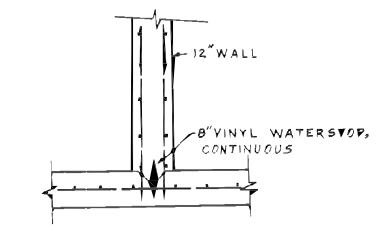


PLAN
NO SCALE

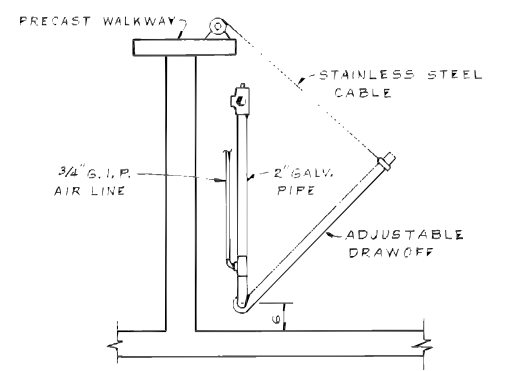


SECTION
NO SCALE

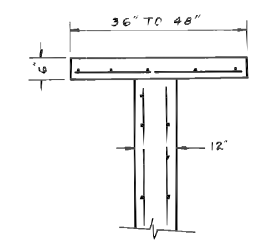
PUMP DATA: GRINDER TYPE
2EA- 75 GPM @ 14' TDH



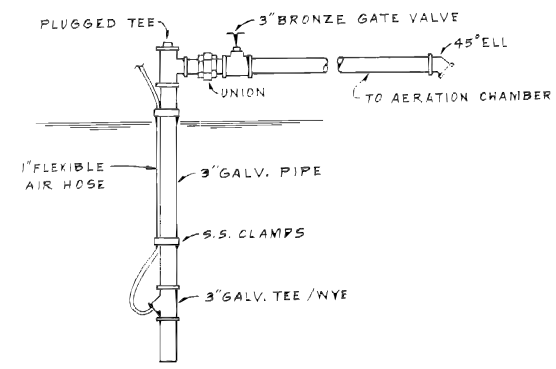
WALL-SLAB DETAIL
NO SCALE



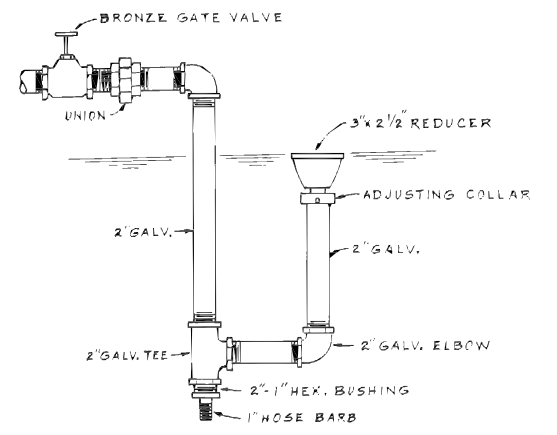
SLUDGE HOLDING DECANT DETAIL
NO SCALE



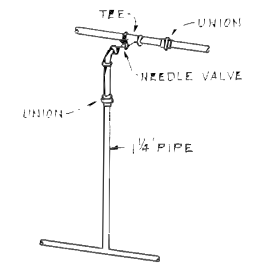
PRECAST WALKWAY
NO SCALE



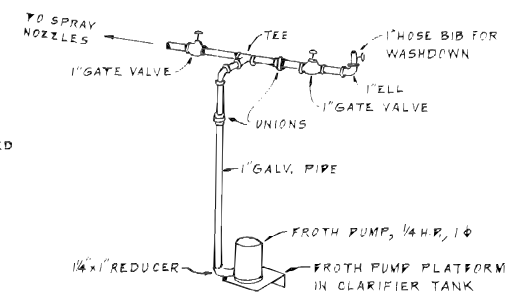
SLUDGE RETURN DETAIL
NO SCALE




SKIMMER DETAIL
NO SCALE

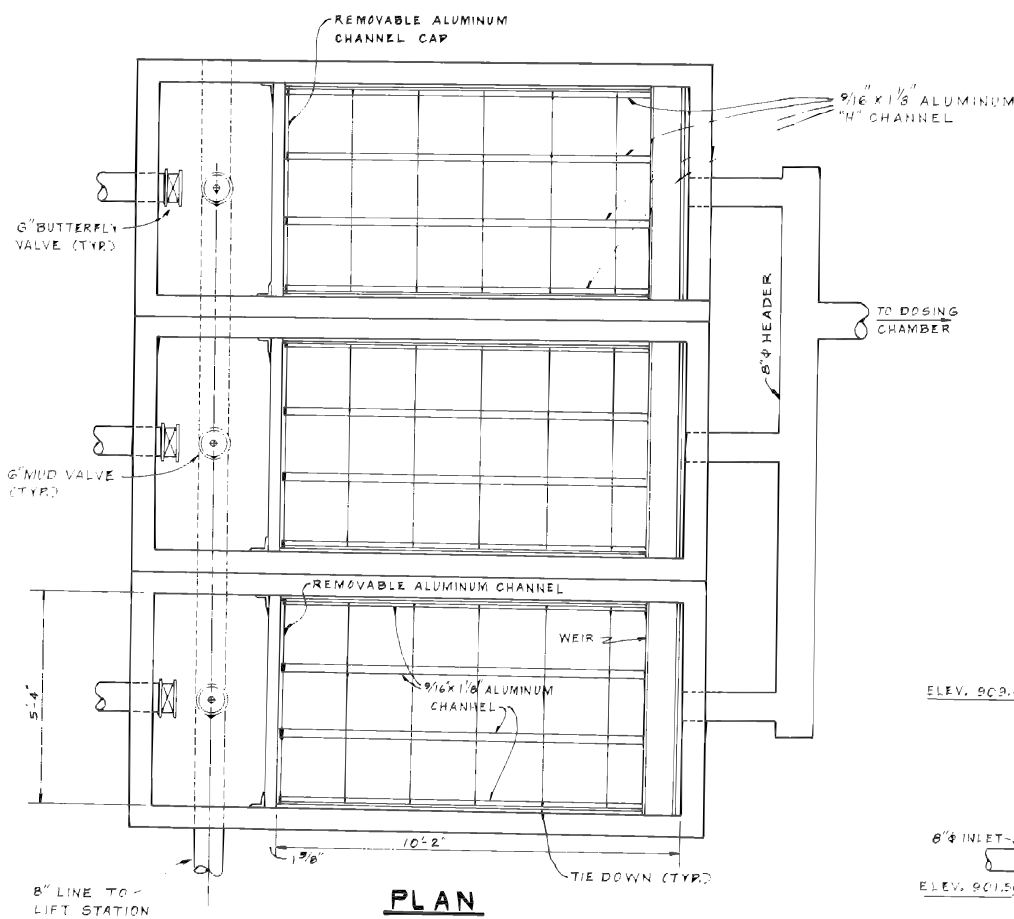


DROP PIPE DETAIL
NO SCALE

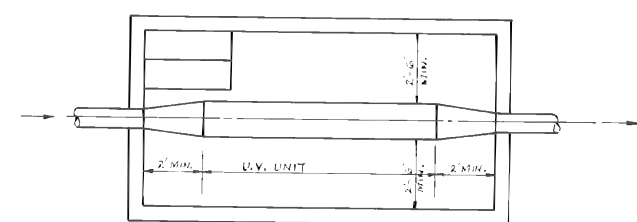


FROTH PUMP DETAIL
NO SCALE

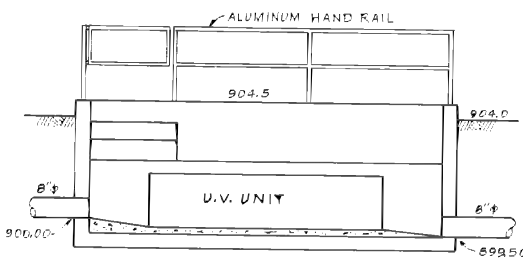
 WOLFE ENGINEERING 4846 FRESHWATER ROAD DELAWARE, OHIO 43015			
GALENA, OHIO DELAWARE COUNTY SEWAGE TREATMENT PLANT			
SCALE AS NOTED	DATE 1-21-94	DRAWN BY CRW	DWG NO. 4 OF 6



PLAN



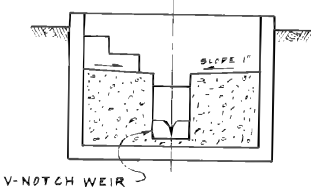
PLAN



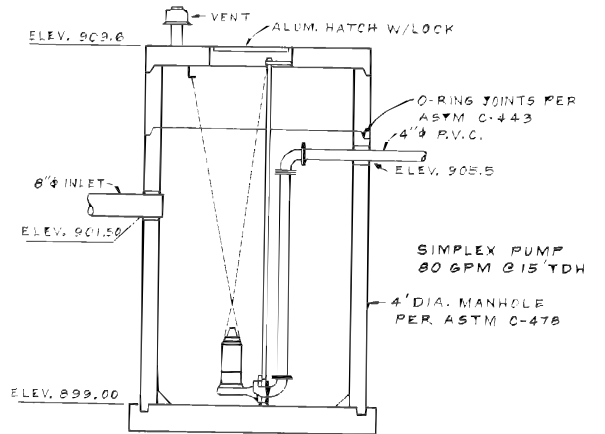
ELEVATION

U.V. UNIT
SCALE: 1"=3'

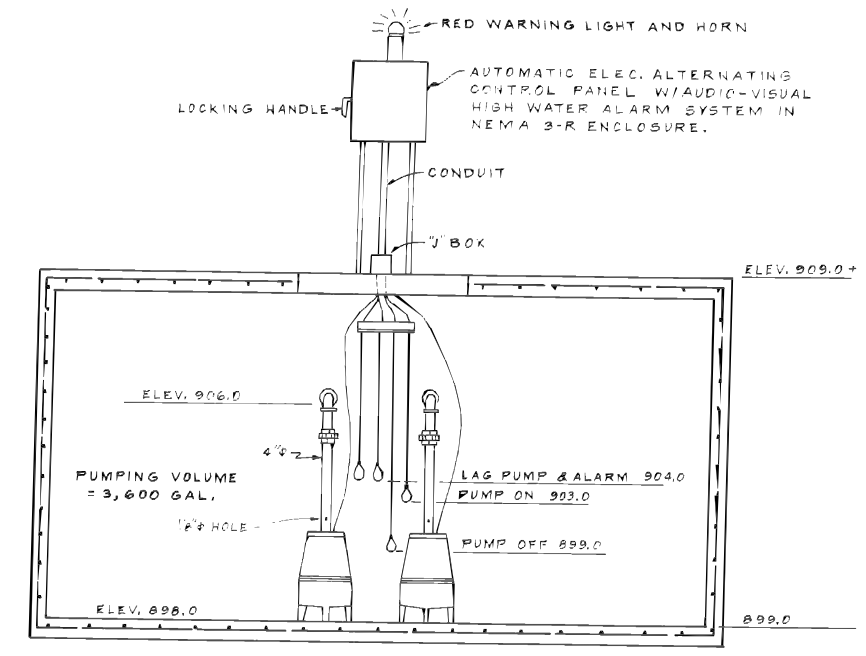
NOTE: U.V. EQUIPMENT TO BE AS MANUFACTURED BY TROJAN, OR APPROVED EQUAL. MONITOR, ALARMS, CONTROLS, ETC. TO BE FURNISHED AND INSTALLED PER MANUFACTURER'S RECOMMENDATIONS. SUBMIT COMPLETE SHOP DRAWINGS FOR APPROVAL



SECTION

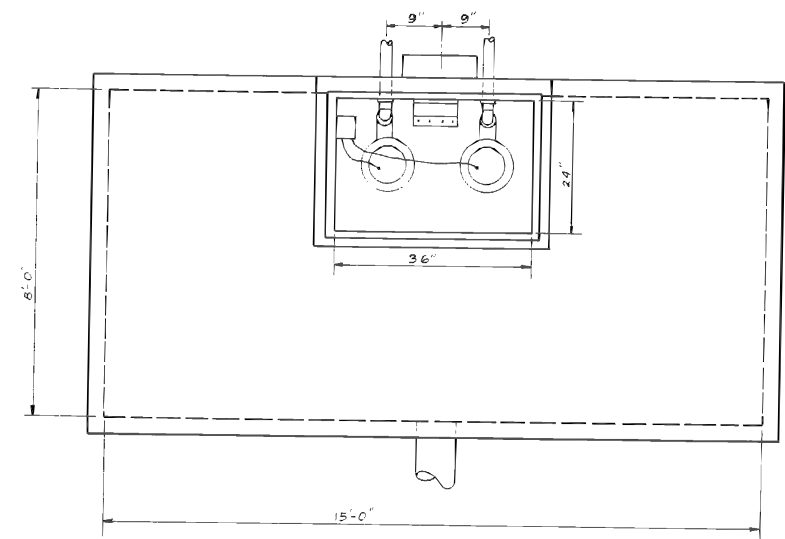


LIFT STATION
NO SCALE

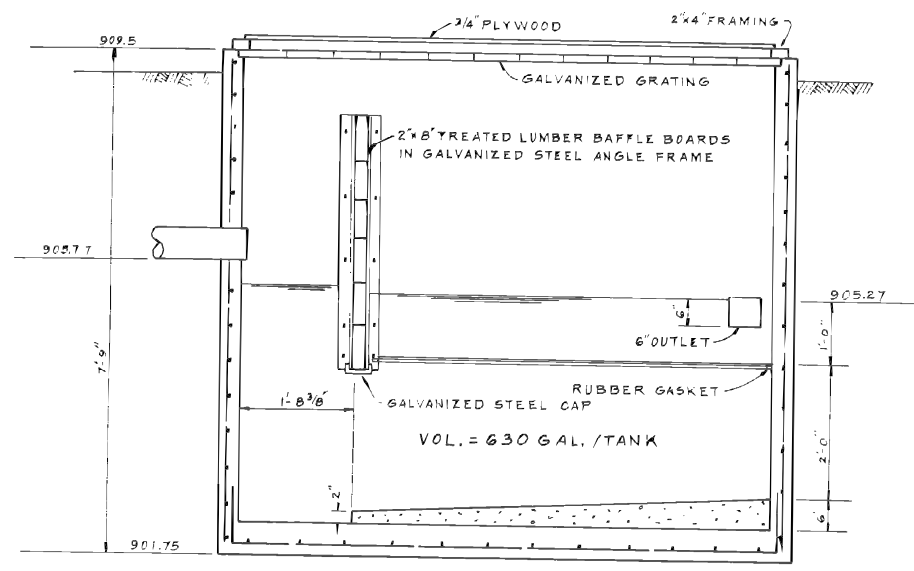


SECTION

PUMP DATA:
DUPLIX OPERATION
350 GPM @ 21' TDH

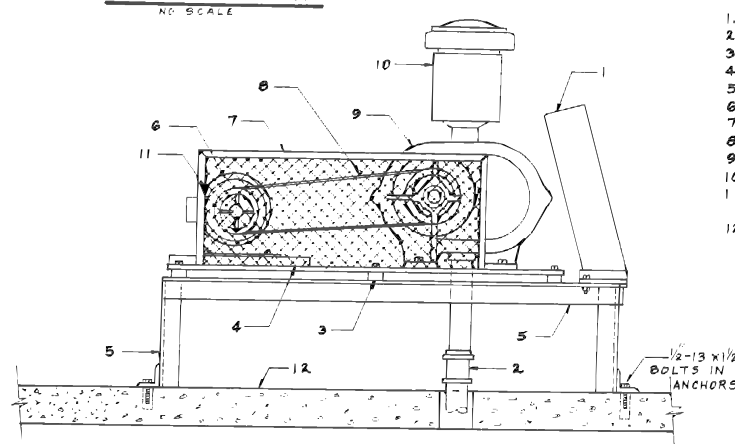


PLAN
DOSING CHAMBER
NO SCALE



SECTION


FIXED MEDIA CLARIFIER
NO SCALE

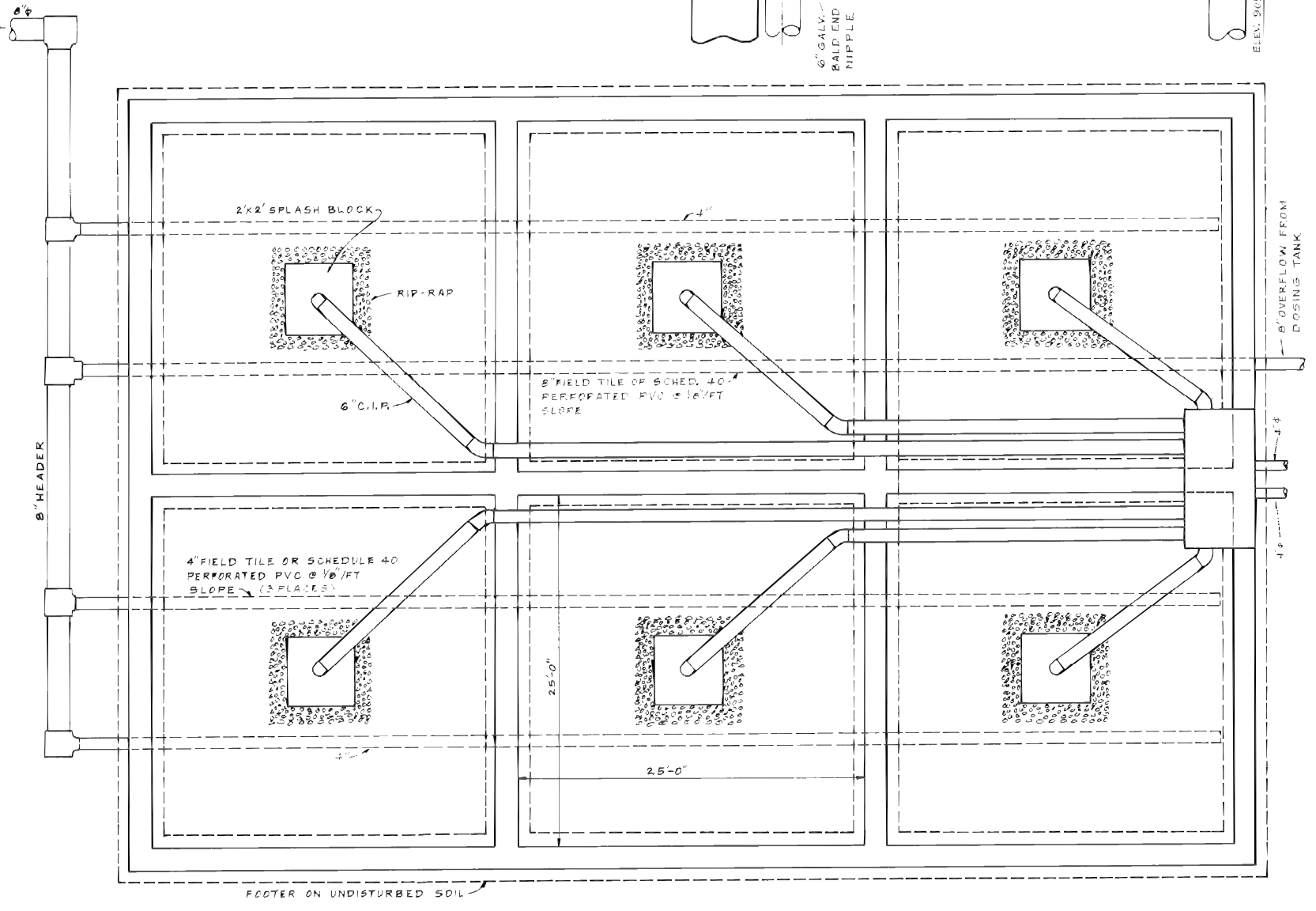
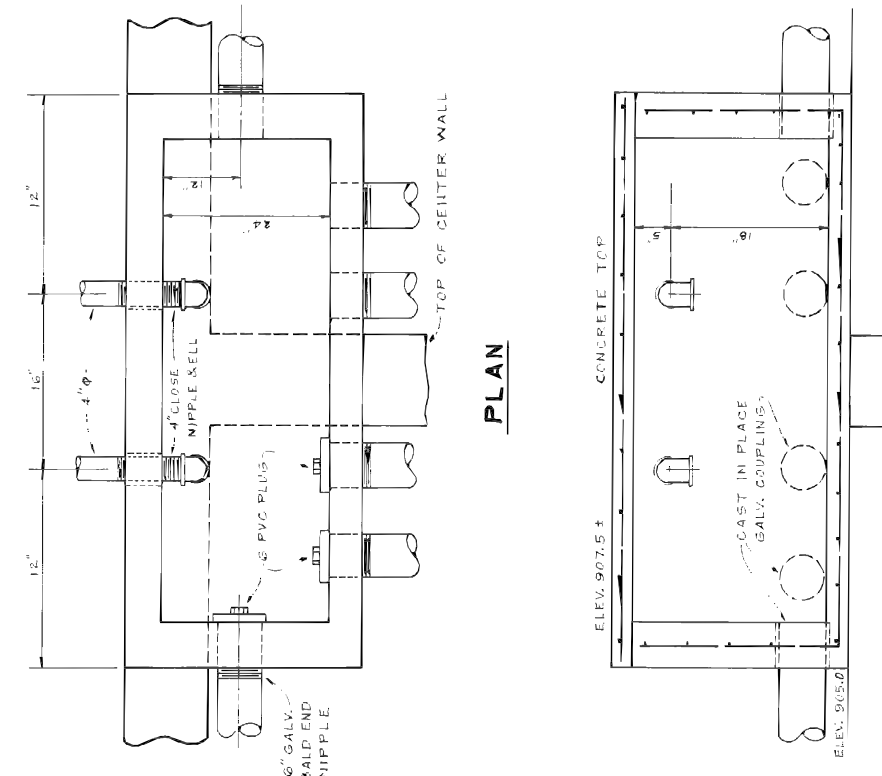
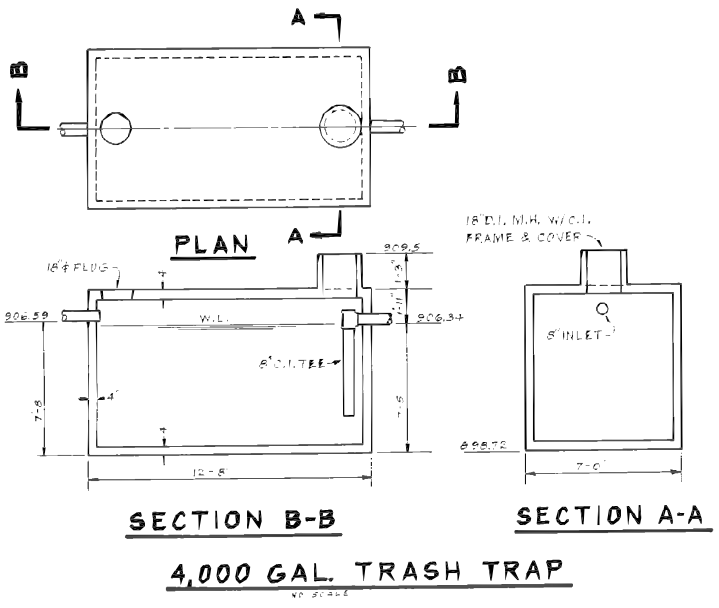


TYP. BLOWER ASSEMBLY
NO SCALE

1. CONTROL PANEL
2. FLEXIBLE PIPE CONNECTION
3. NEOPRENE VIBRATION ISOLATORS (6)
4. ADJUSTABLE MOTOR MOUNTING BASE
5. H.R.S. ANGLE FRAME-PAINTED 2 COATS
6. BROWNING I-TB SERIES SHEAVES, OR EQUAL
7. H.R.S. ANGLE FRAME BELT GUARD-PAINTED 2 COATS
8. SINGLE "B" SECTION BELTS
9. BLOWER, ROOTS MODEL OR EQUAL
10. FILTER/SILENCER, AIR MAZE MODEL US-30, OR EQUAL
11. ELEC. MOTOR, 10, BALDOR MODEL L-3605T W/ 102-T FRAME, OR EQUAL
12. CONC. FLOOR OF BLOWER BUILDING

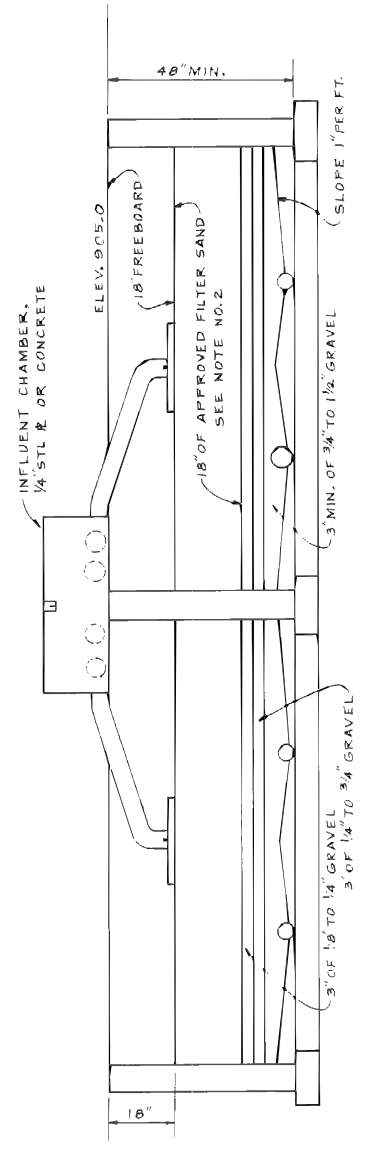
NOTE:
1. FURNISH PRESSURE WEIGHTED RELIEF VALVES, ROOTS TYPE PW, OR EQUAL
2. FURNISH BRONZE CHECK VALVE IN EACH BLOWER LINE
3. BLOWER BUILDING TO BE 10'x20', WITH 7' MIN. HEAD ROOM, VENTED, INSULATED, W/PIPING, CONDUIT, ETC. PROVIDED FOR FUTURE PLANT EXPANSION.

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AS NOTED	1-21-94	CRW	5 OF 6



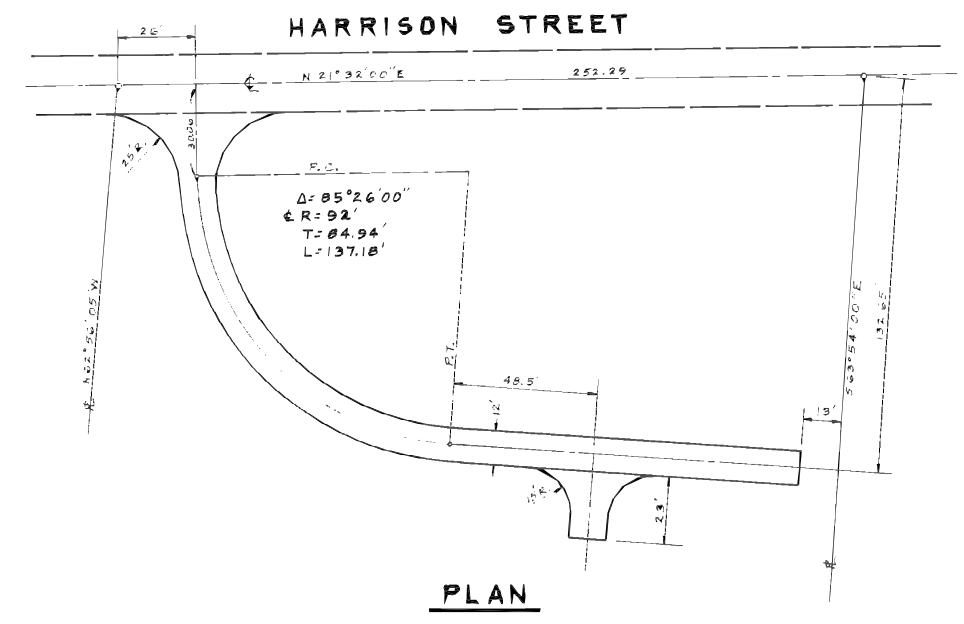
PLAN

SECTION
CONCRETE INFLUENT CHAMBER

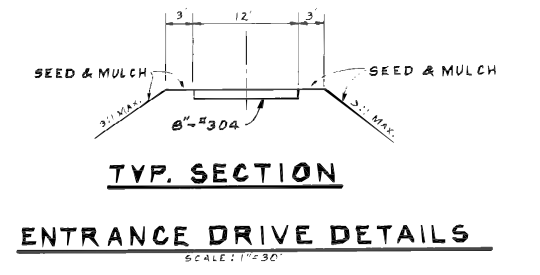


SECTION
SURFACE SAND FILTER


- NOTES:
1. FILTER WALLS TO BE REINFORCED, CAST IN PLACE CONCRETE OR PRECAST CONCRETE.
 2. FILTER SAND MUST BE APPROVED BY OHIO E.P.A. EFFECTIVE SIZE BETWEEN 0.40 & 0.80 MM. WITH A UNIFORMITY COEFFICIENT NOT GREATER THAN 3.00
 3. BEDS SHALL BE SQUARE AND OF EQUAL SIZE.
 4. AN IMPERVIOUS BOTTOM LINER SHALL BE PROVIDED.



PLAN



TYP. SECTION
ENTRANCE DRIVE DETAILS
SCALE: 1\"/>

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