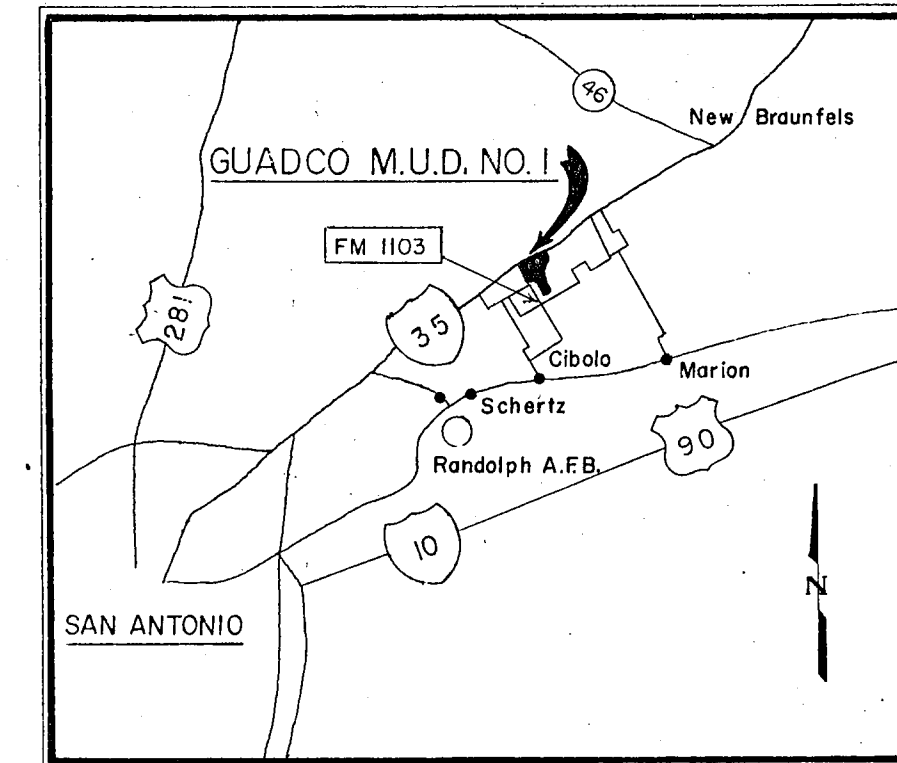


**NORTHCLIFFE WWTP DEMOLITION
ABANDONED STRUCTURES LOCATION MAP
AND ATTACHED DETAILS WITH STRUCTURE DEPTHS
GBRA APRIL 2021**

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28.	SLUDGE DRYING BED DETAILS
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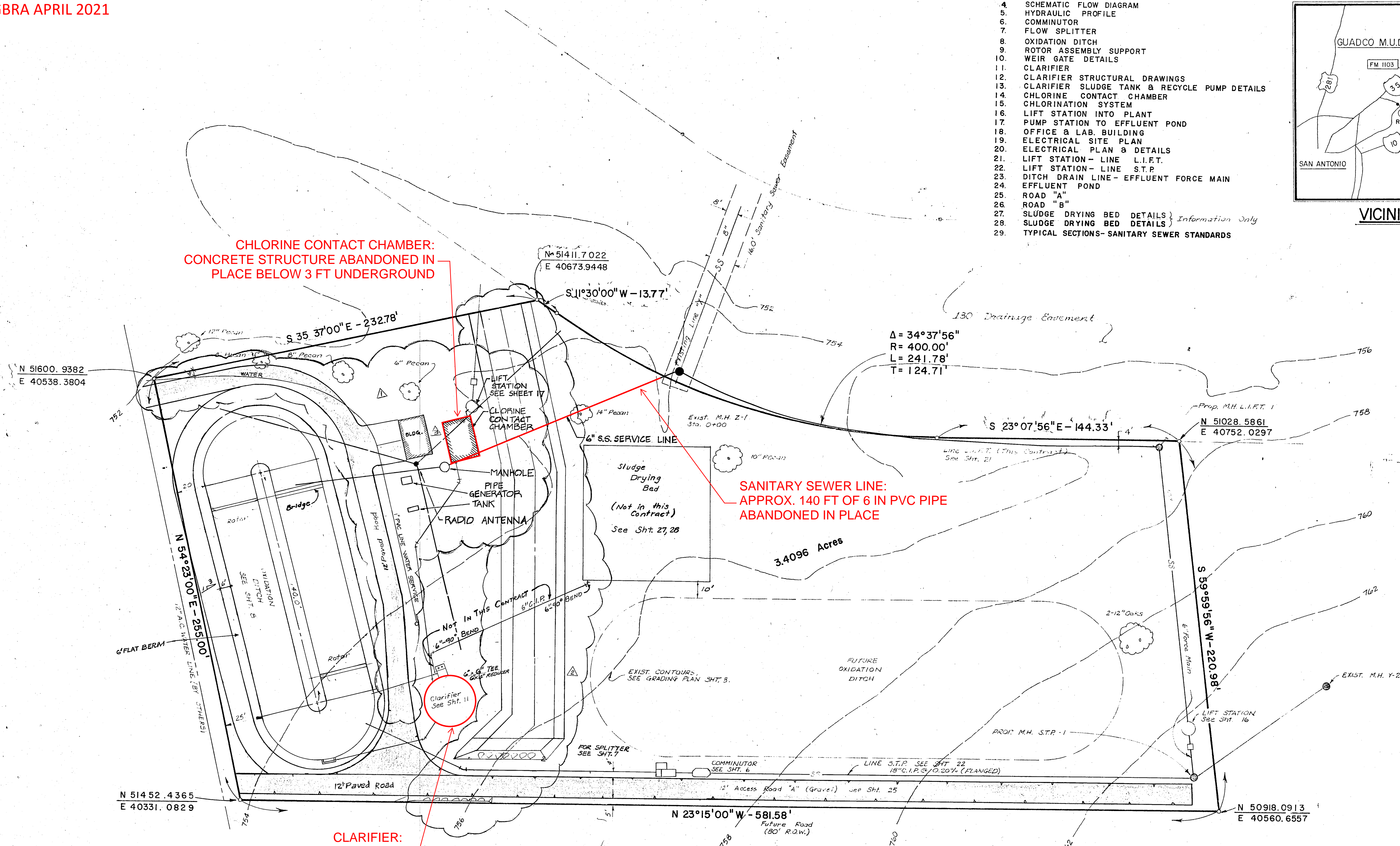


VICINITY MAP

**CHLORINE CONTACT CHAMBER:
CONCRETE STRUCTURE ABANDONED IN
PLACE BELOW 3 FT UNDERGROUND**

**SANITARY SEWER LINE:
APPROX. 140 FT OF 6 IN PVC PIPE
ABANDONED IN PLACE**

**CLARIFIER:
CONCRETE STRUCTURE ABANDONED
IN PLACE BELOW 3 FT UNDERGROUND**



SCALE: 1" = 30'-0"

REV.	DATE	DESCRIPTION	DNB	CHK BY
1	11-16-76	REV. RD. 'B' & ELDES	F.U.C.	H.L.M.
2	4-18-77	ADD DRAIN	F.U.C.	H.L.M.
3	11-78	AS BUILTS - RELOCATE EQ.	M.G.	A.C.

Steve P. [Signature]

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PLANNERS

GUADCO MUNICIPAL DISTRICT NO. 1

**NORTHCLIFFE SECTION 1&2 AND
NORTHCLIFFE EAST SECTION 1
SEWAGE TREATMENT PLANT
SITE PLAN**

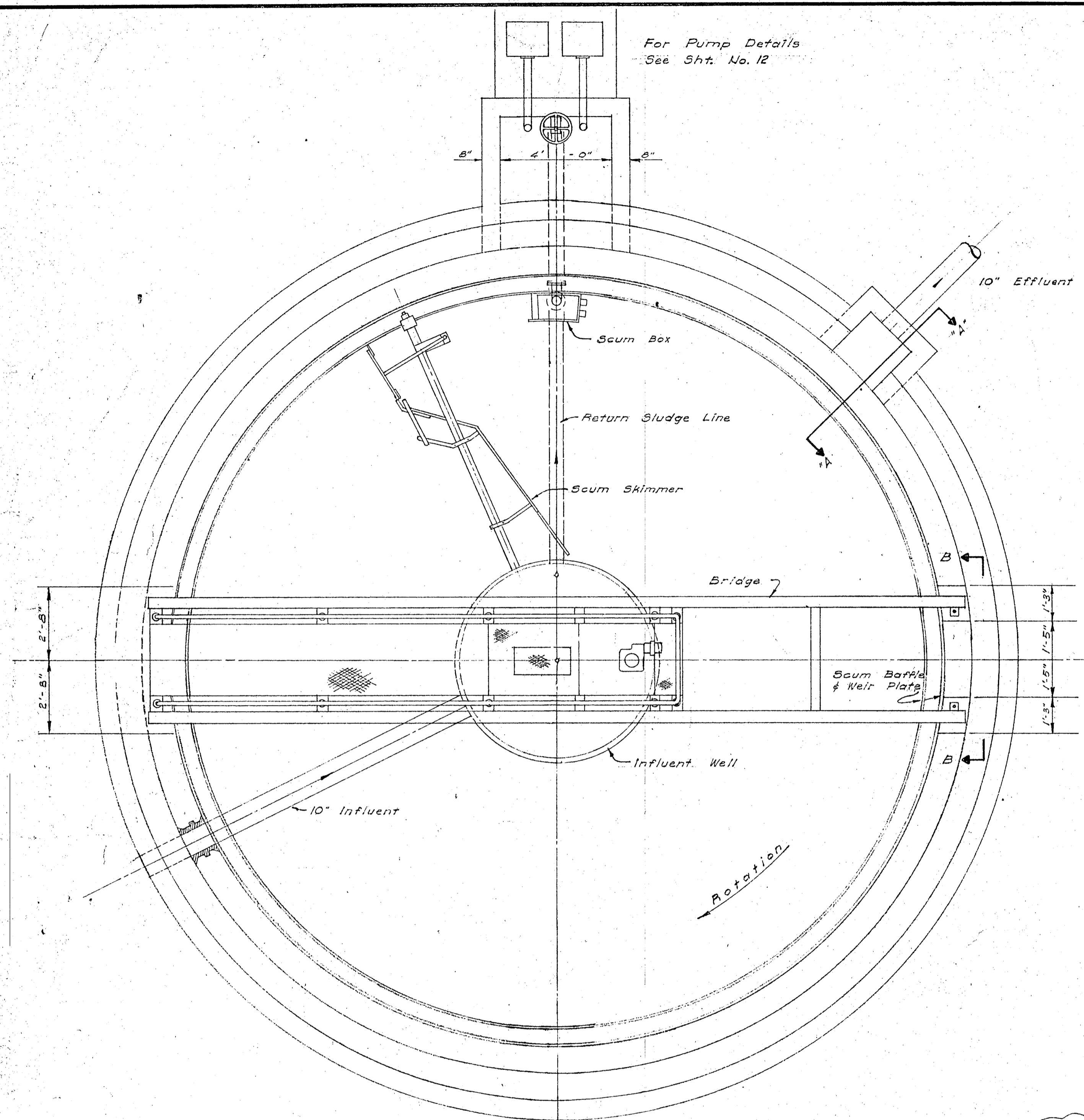
BERNARD JOHNSON INCORPORATED
ENGINEERS - ARCHITECTS - PLANNERS
5050 WESTHEIMER
HOUSTON TEXAS 77027

Job No. 74010
Date: April, 1976
Dwn. By: F. E. J.
Chkd. By: S.P.G.

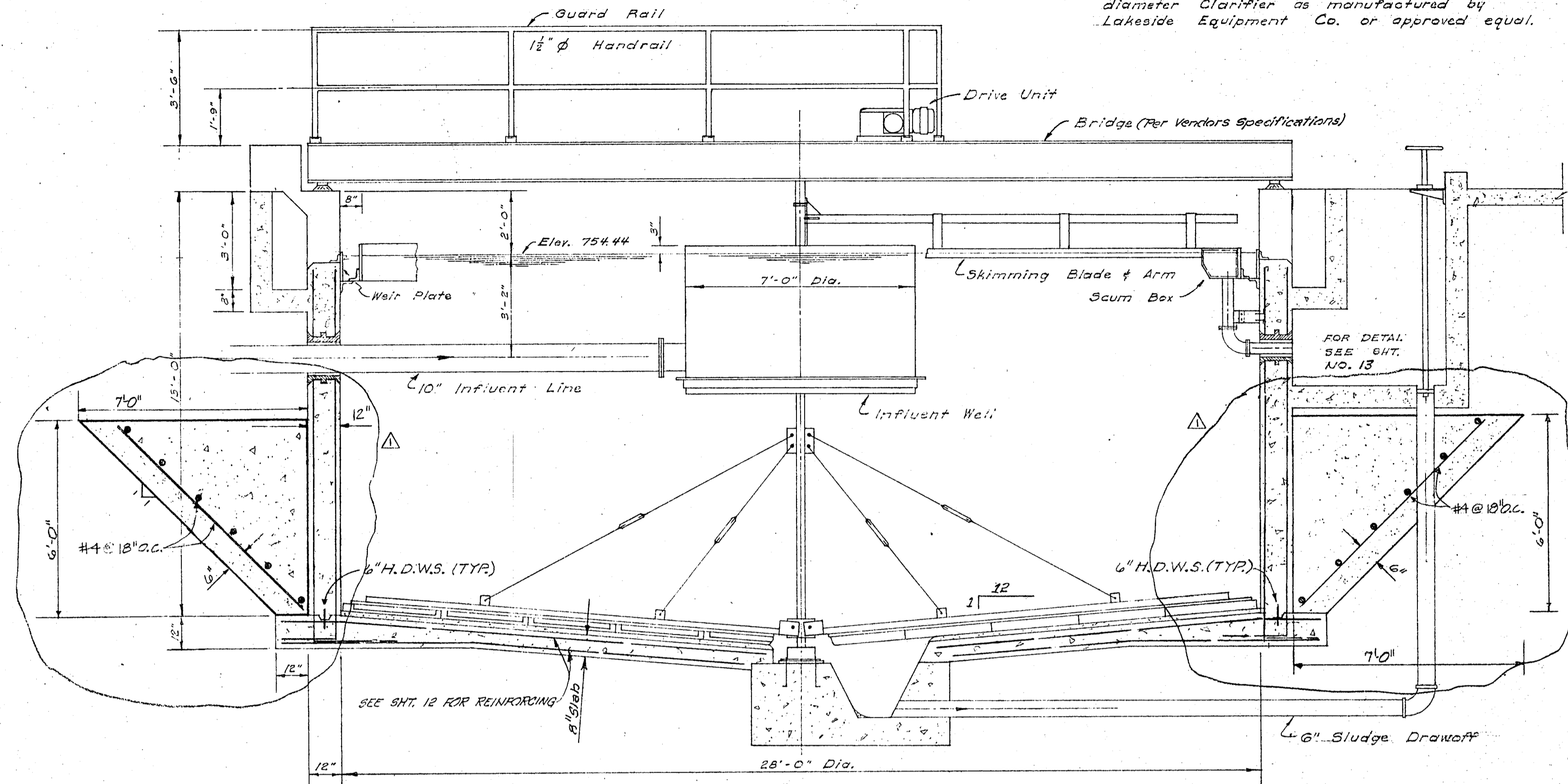
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For Pump Details
See Sht. No. 12

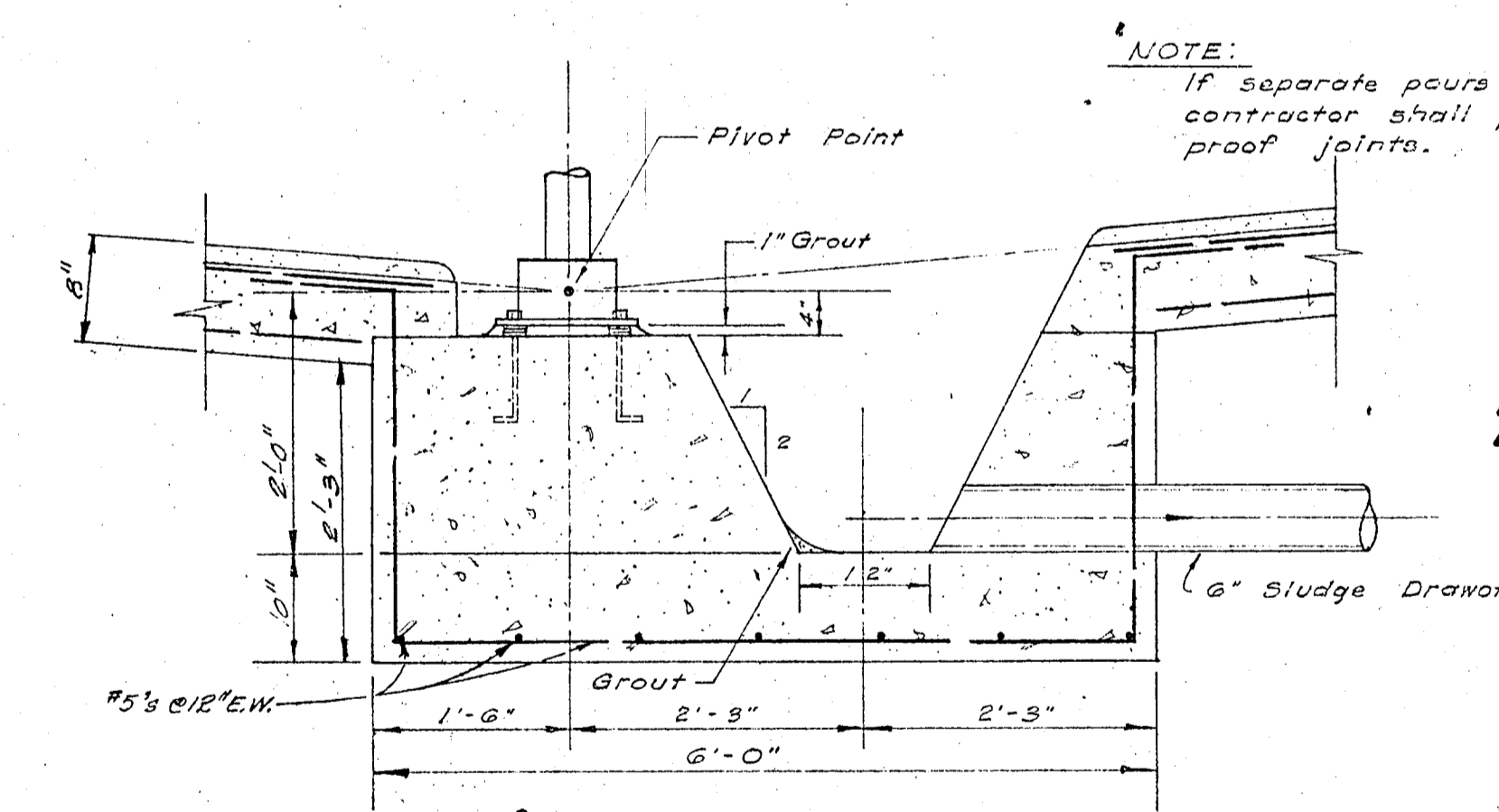
Contractor to provide center feed 28' diameter Clarifier as manufactured by Lakeside Equipment Co. or approved equal.



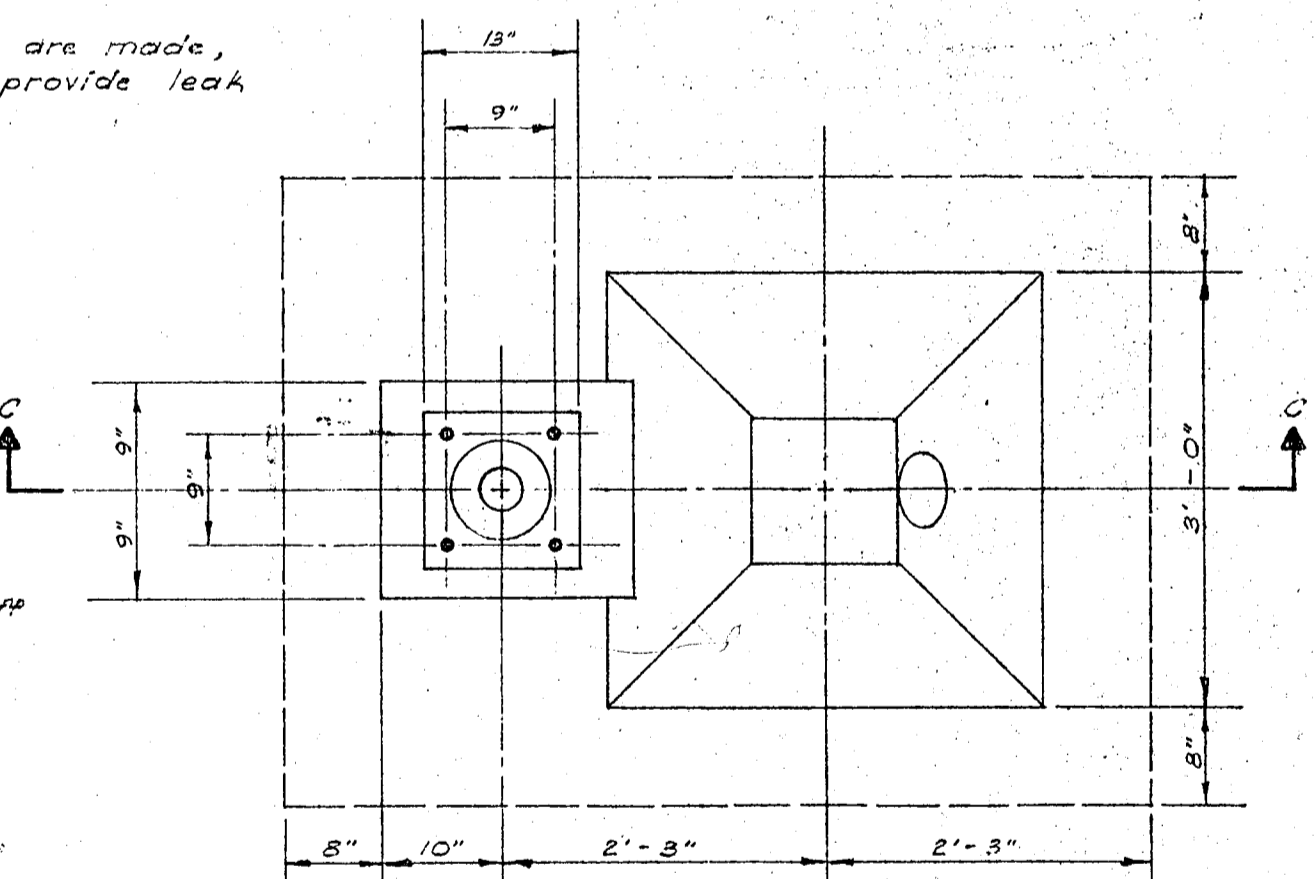
PLAN
Scale: 3/8" = 1'-0"



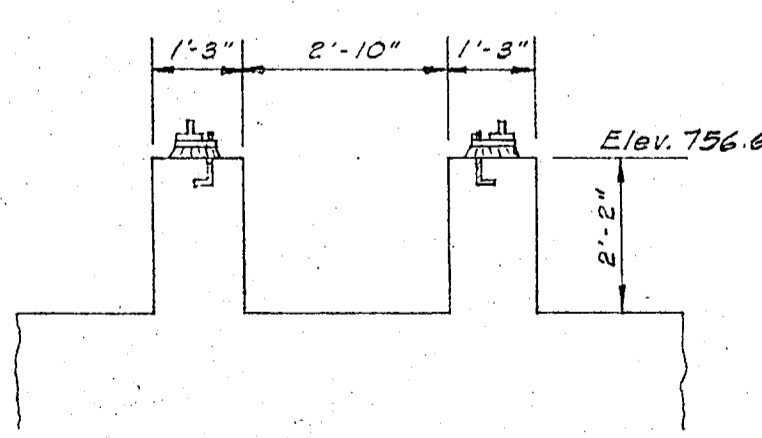
SECTIONAL ELEVATION
Scale: 3/8" = 1'-0"



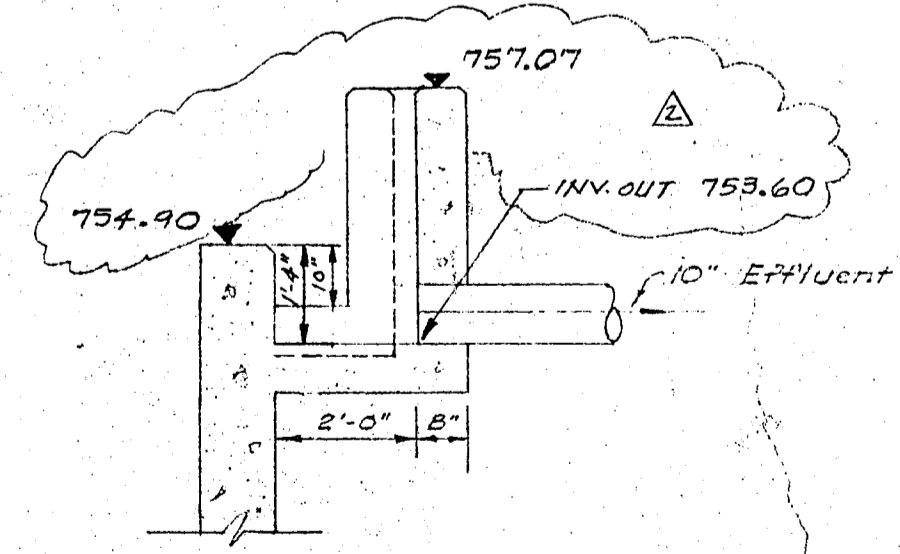
NOTE:
If separate pours are made,
contractor shall provide leak
proof joints.



PLAN OF CENTER PIER & SLUDGE SUMP
Scale: 3/4" = 1'-0"

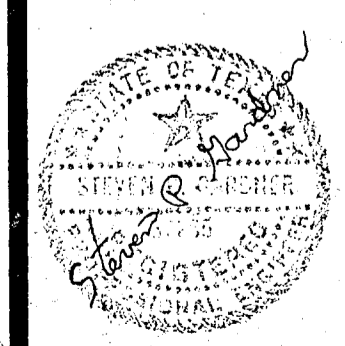


Section B-B
Scale: 3/8" = 1'-0"



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

REV.	DATE	DESCRIPTION	DWG	CHK.	BY
1	1-11-76	AS BUILT - CHANGE ELEV.	R.G.	AC.	
2	1-14-77	ADD CONC. BALLAST	R.G.	PLM.	



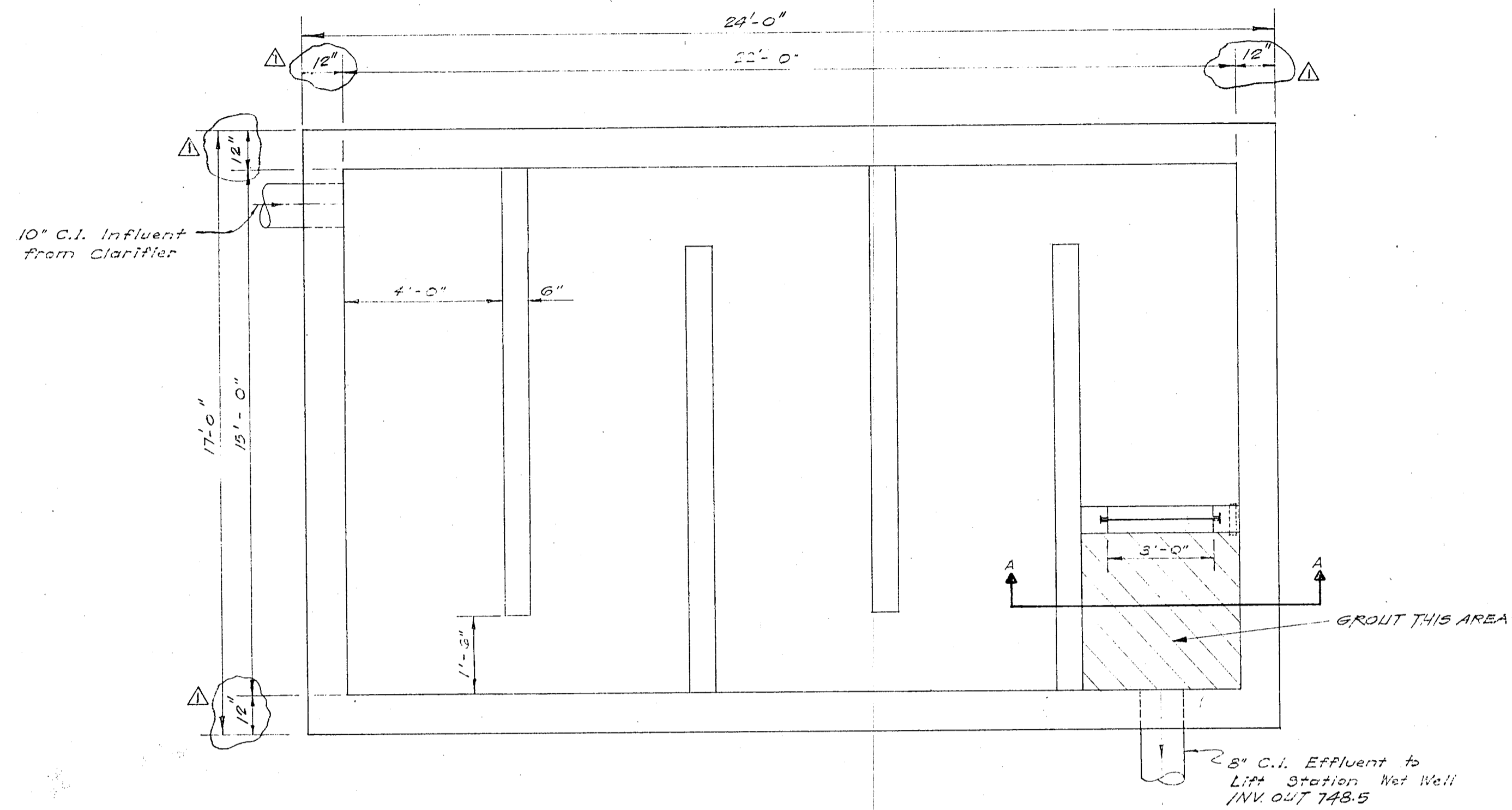
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GUADCO MUNICIPAL DISTRICT NO. 1
NORTHCLIFFE SECTION 1&2 AND
NORTHCLIFFE EAST SECTION .1
SEWAGE TREATMENT PLANT
CLARIFIER

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HOUSTON TEXAS 77027

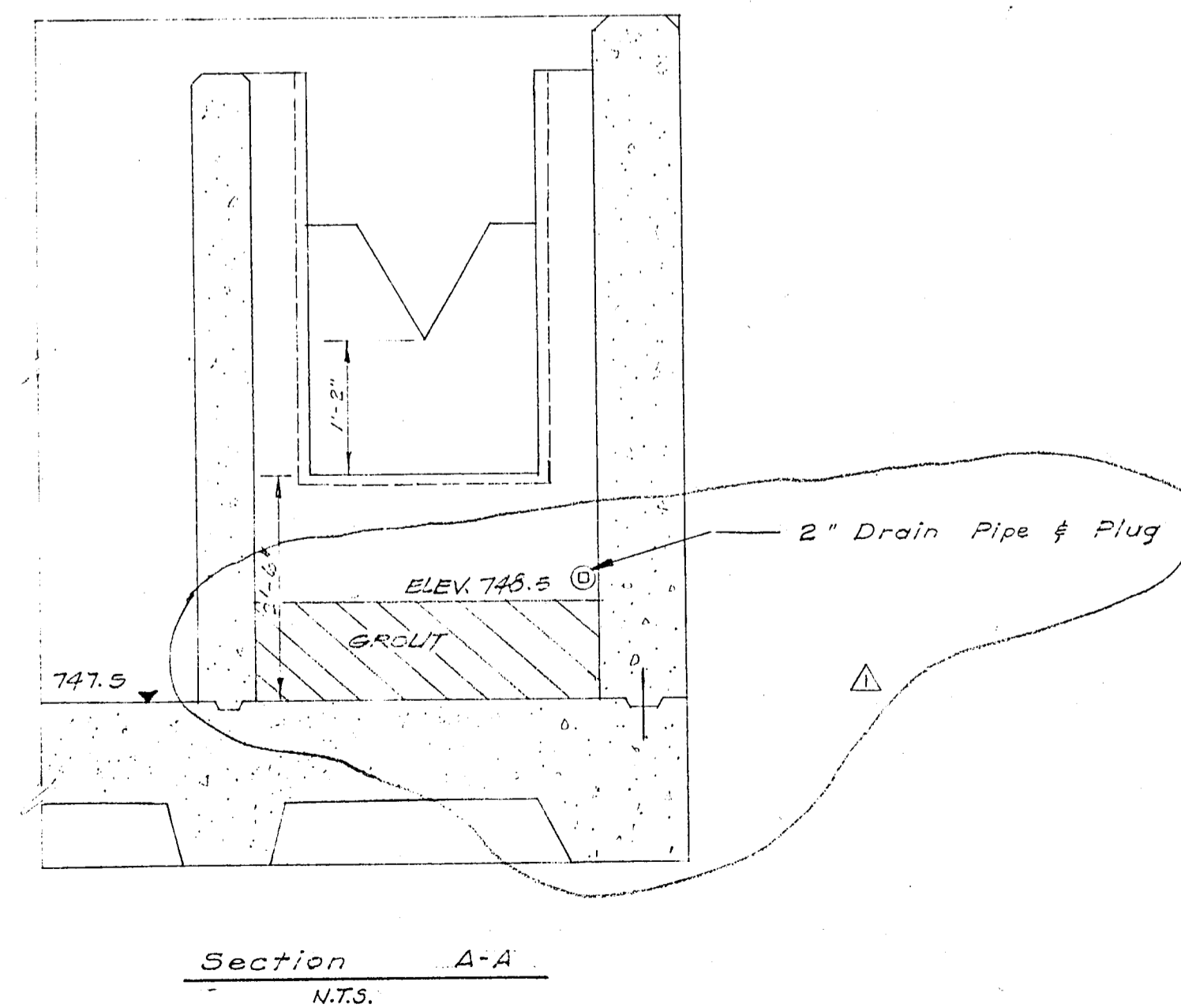
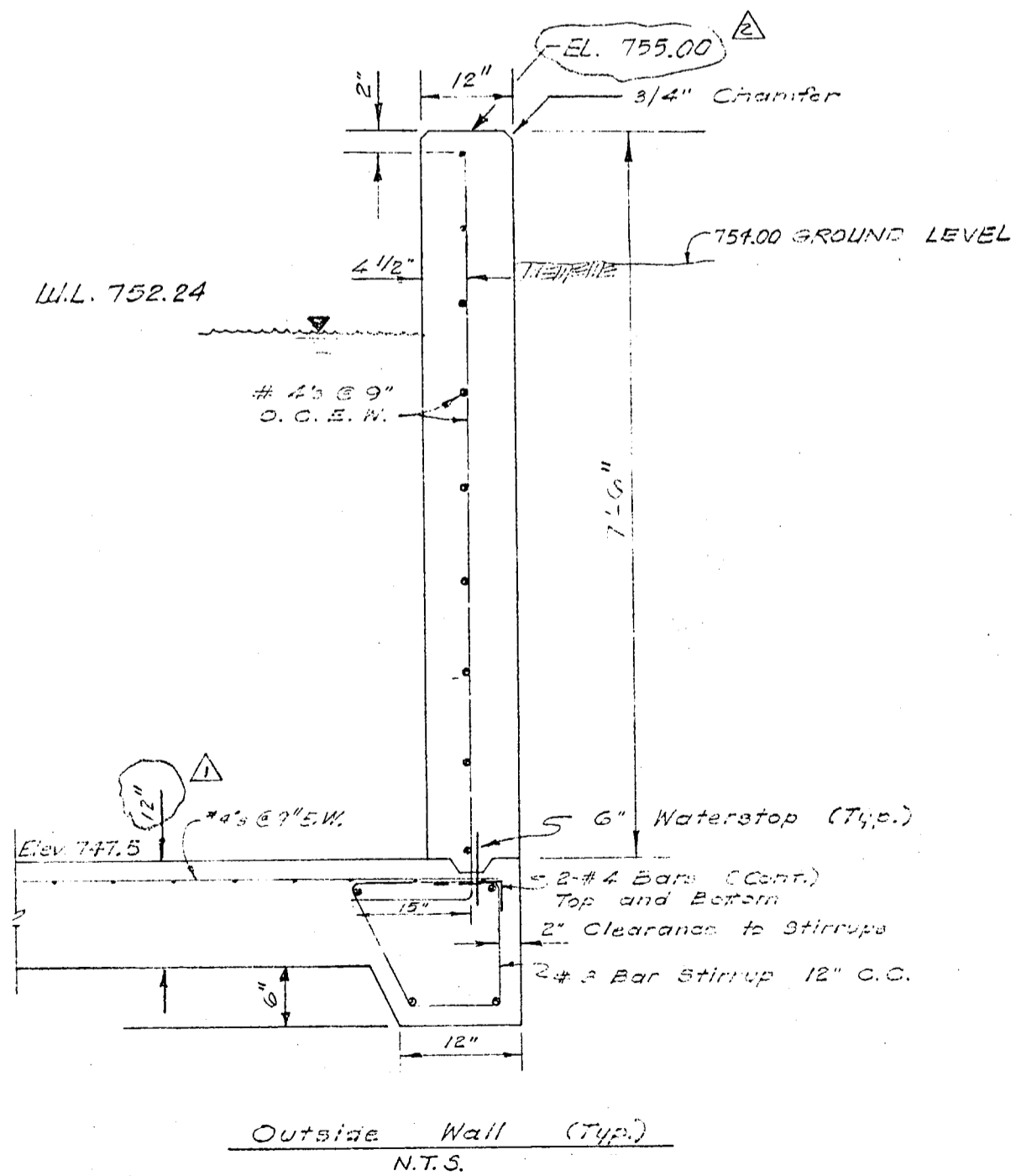
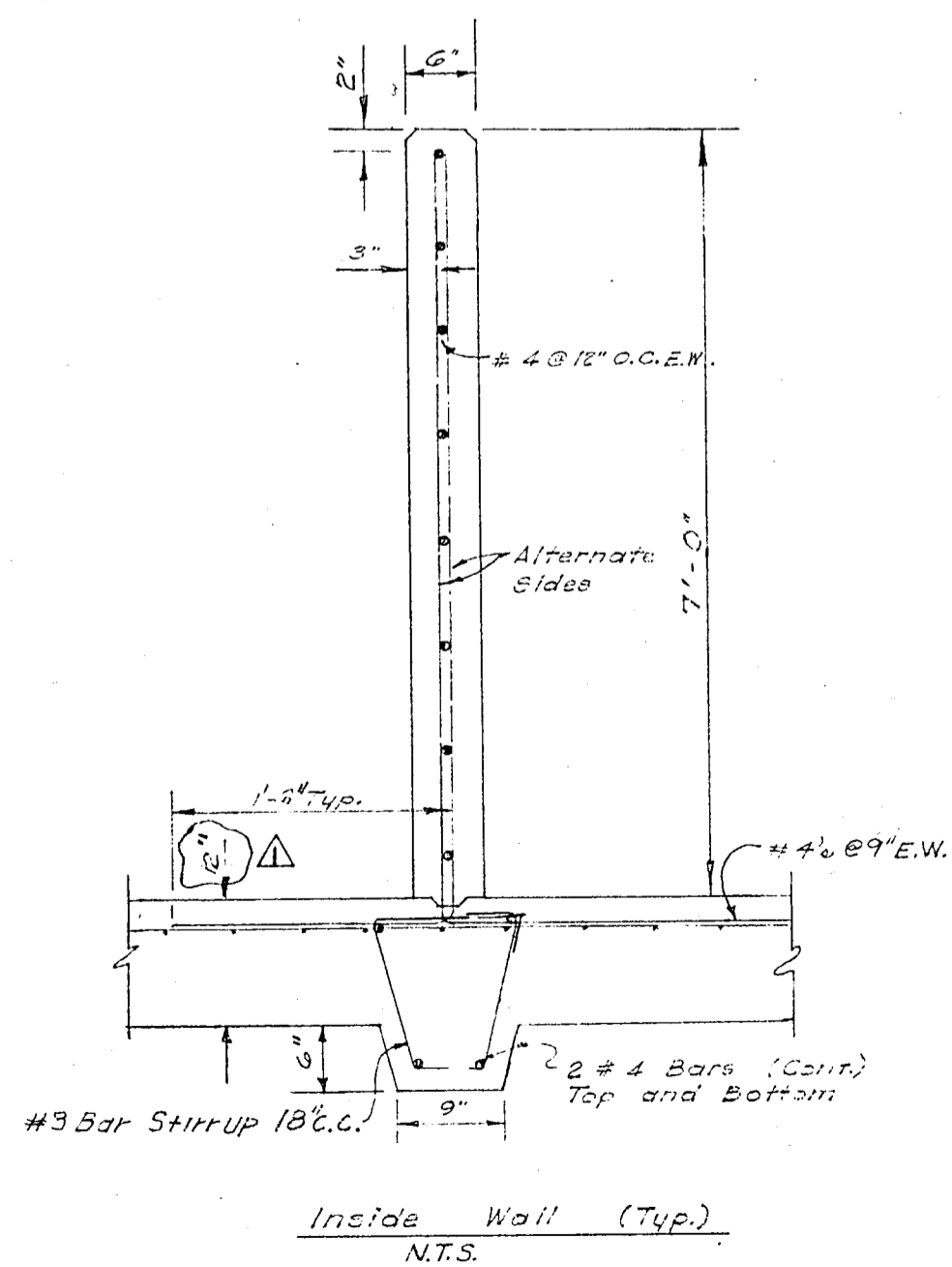
Job No. 74010
Date: March, 1976
Dwn. By: N. F. C.
Chkd. By: J. Z.

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PLAN
Chlorine Contact Chamber
N.T.S.

Peak Flow = 750,000 g.p.d.
Volume Required:
 $\frac{750,000 \text{ gpd}}{7.48 \text{ g/ft}^3} \times \frac{1 \text{ day}}{24 \text{ hrs}} \times \frac{1 \text{ hr}}{3(20 \text{ min. period})} = 1,393 \text{ ft}^3$
W.S. in Contact Chamber @ Peak Flow = 752.24
Floor Slab = 747.5
Area of Chamber = 306 sq. ft.
Volume = (752.24 - 747.5)(306) = 1450 ft³
Detention Time
 $\frac{1450 \text{ ft}^3}{1393} \times 20 = 20.8 \text{ min.}$



REV.	DATE	DESCRIPTION	DWG.	CHK. BY
△	1-14-77	RAISED WALLS	R.G.	H.L.M.
△	2-29-76	REV. WALLS & SLAB THICK.	E.G.	H.L.M.

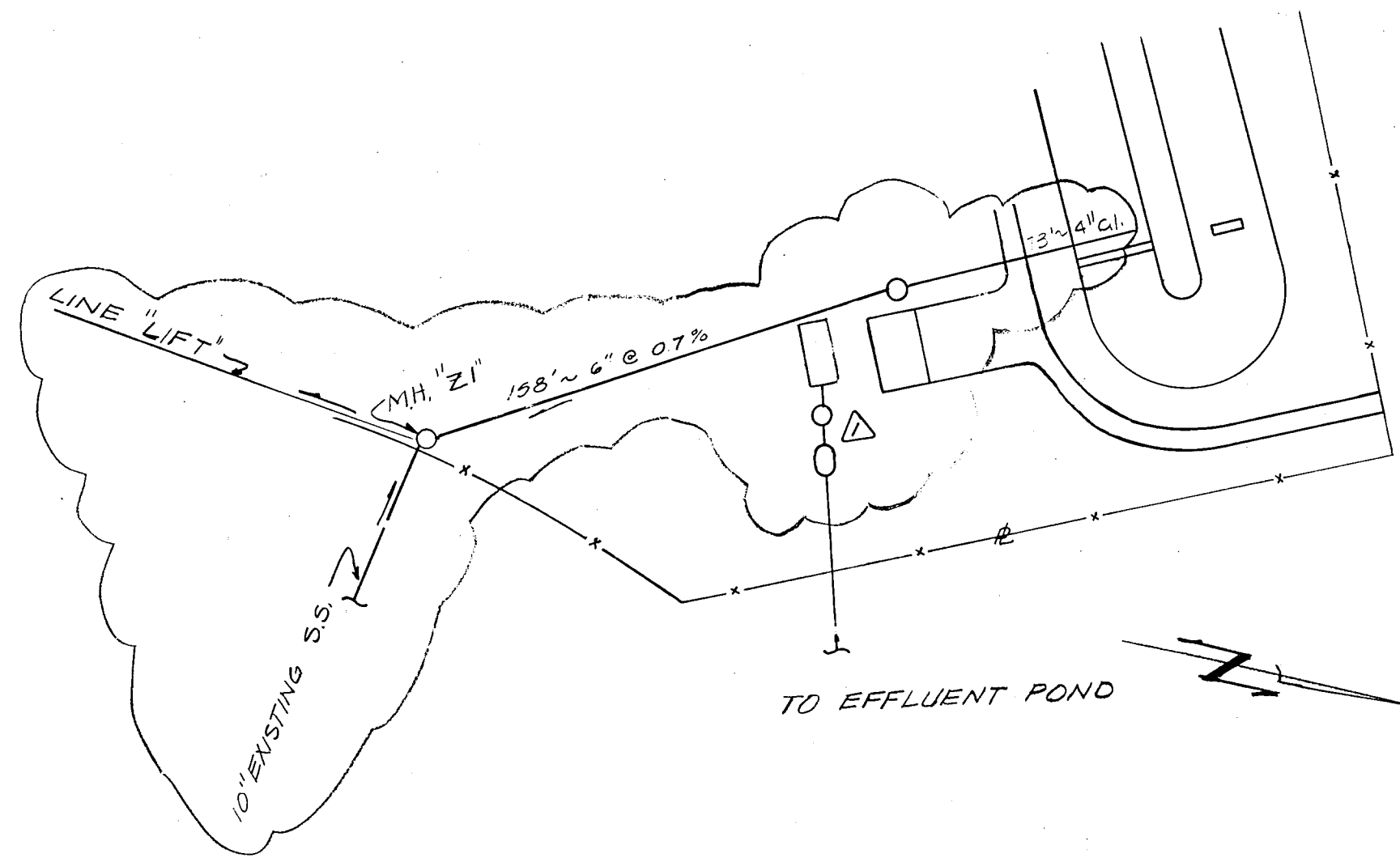
S. P. Johnson

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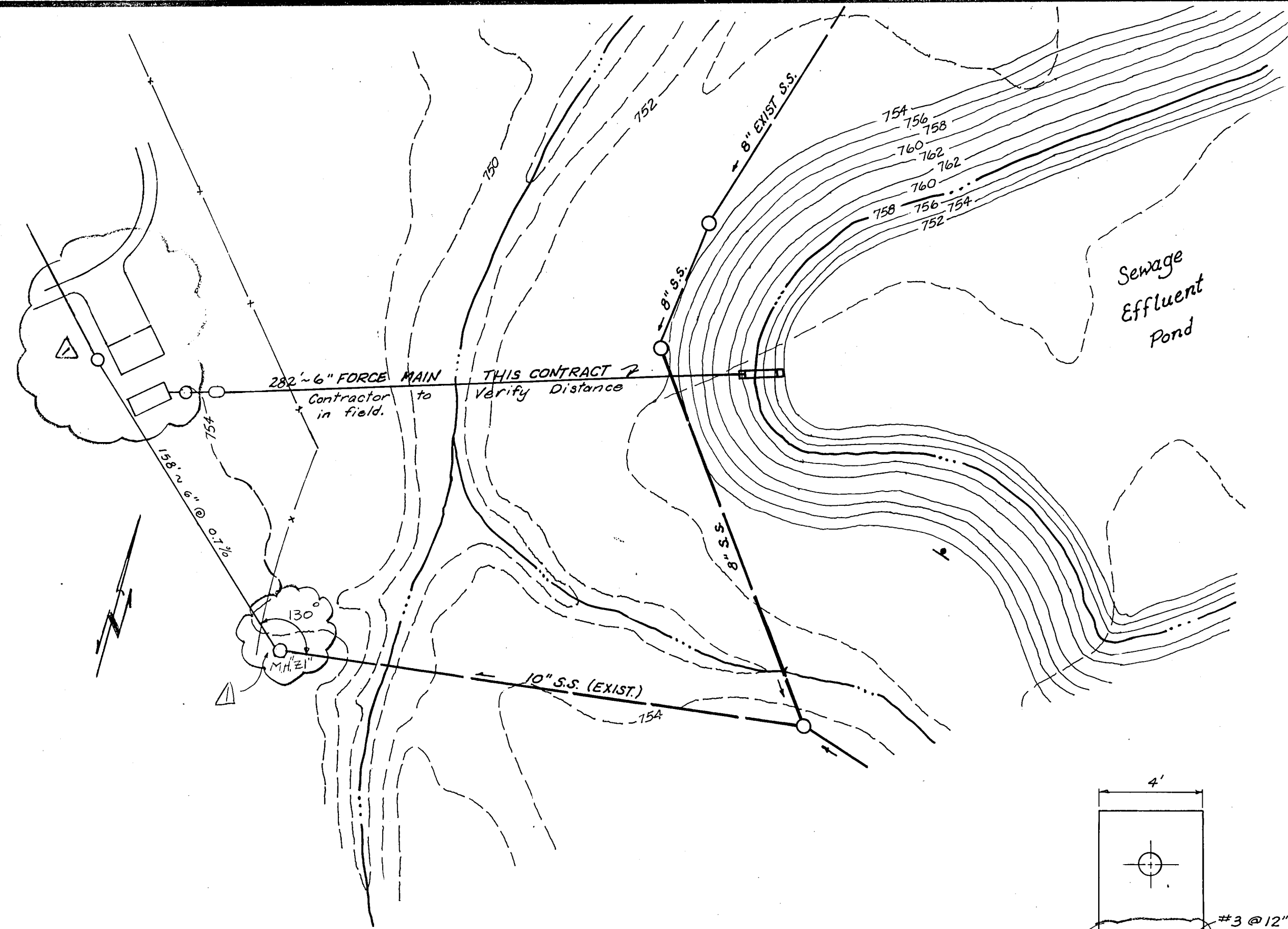
GUADCO MUNICIPAL DISTRICT NO. 1
NORTHCLIFFE SECTION 1 & 2 AND
NORTHCLIFFE EAST SECTION 1
SEWAGE TREATMENT PLANT
CHLORINE CONTACT CHAMBER

Job No. 74010
Date: March, 1976
Dwn. By: N.F.C.
Chkd. By: J.Z.

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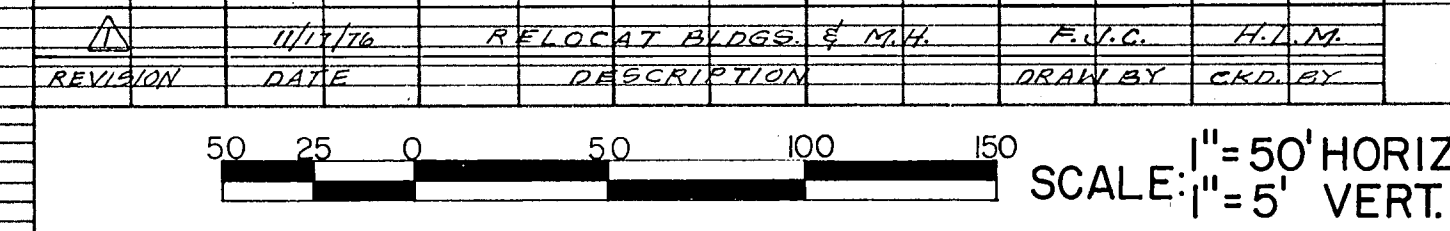
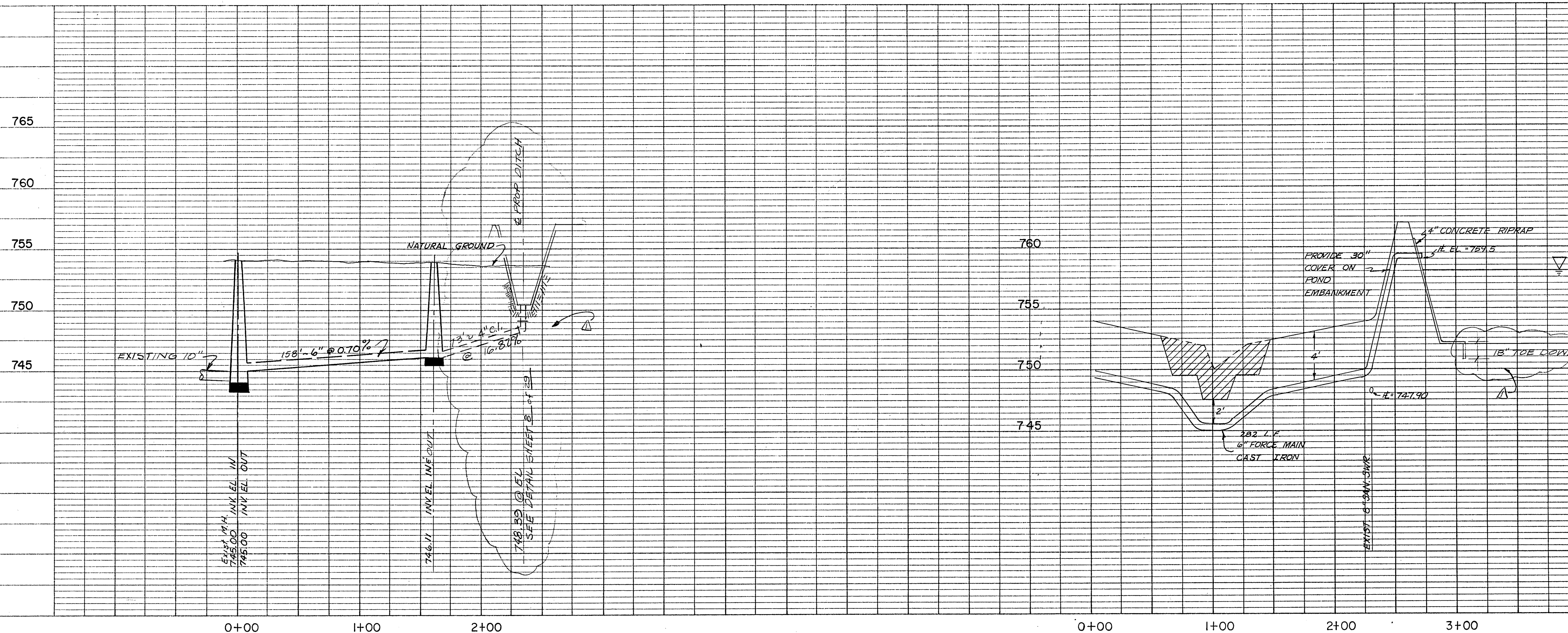
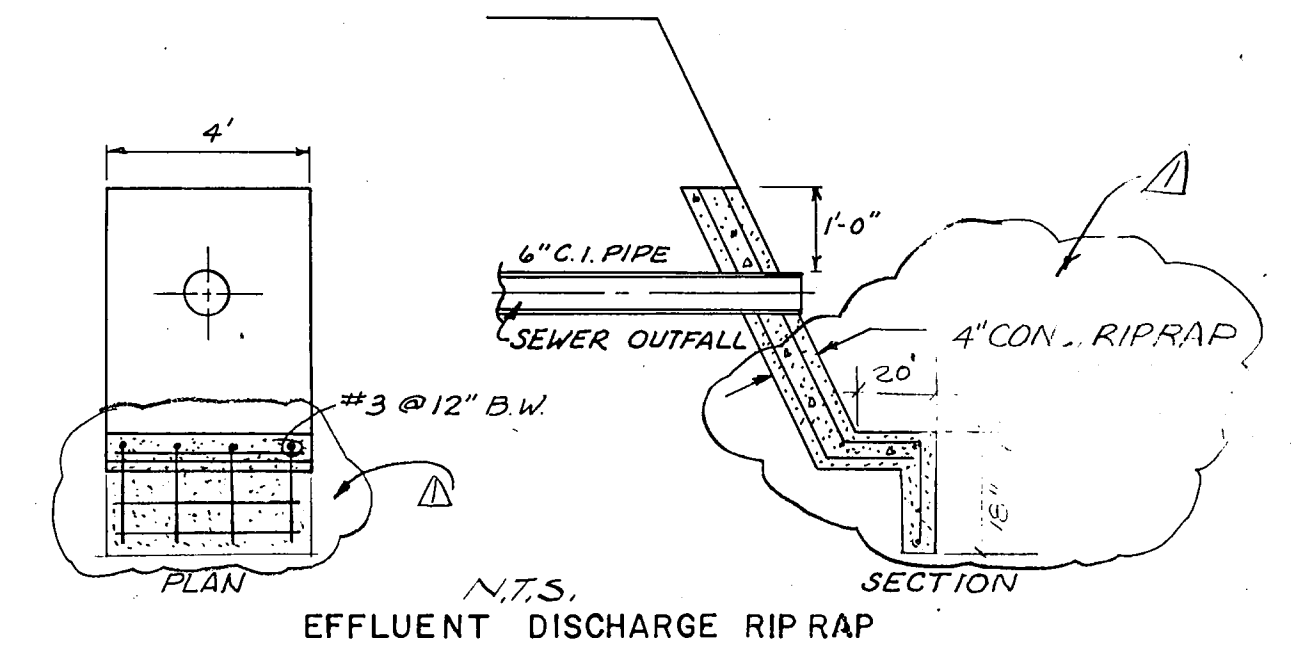


DITCH DRAIN LINE



EFFLUENT DISCHARGE FORCE MAIN

1" = 50'-0"



	GUADCO MUNICIPAL DISTRICT NO. 1 NORTHCLIFFE SECTION 18.2 AND NORTHCLIFFE EAST SECTION I SEWAGE TREATMENT PLANT DITCH DRAIN LINE-EFFLUENT FORCE MAIN	
	BERNARD JOHNSON INCORPORATED ENGINEERS - ARCHITECTS - PLANNERS HOUSTON 5050 WESTHEIMER TEXAS 77027	Job No. 74010 Date: FEB. 1976 Dwn. By: F.E.J. Chkd. By: S. P. G.