

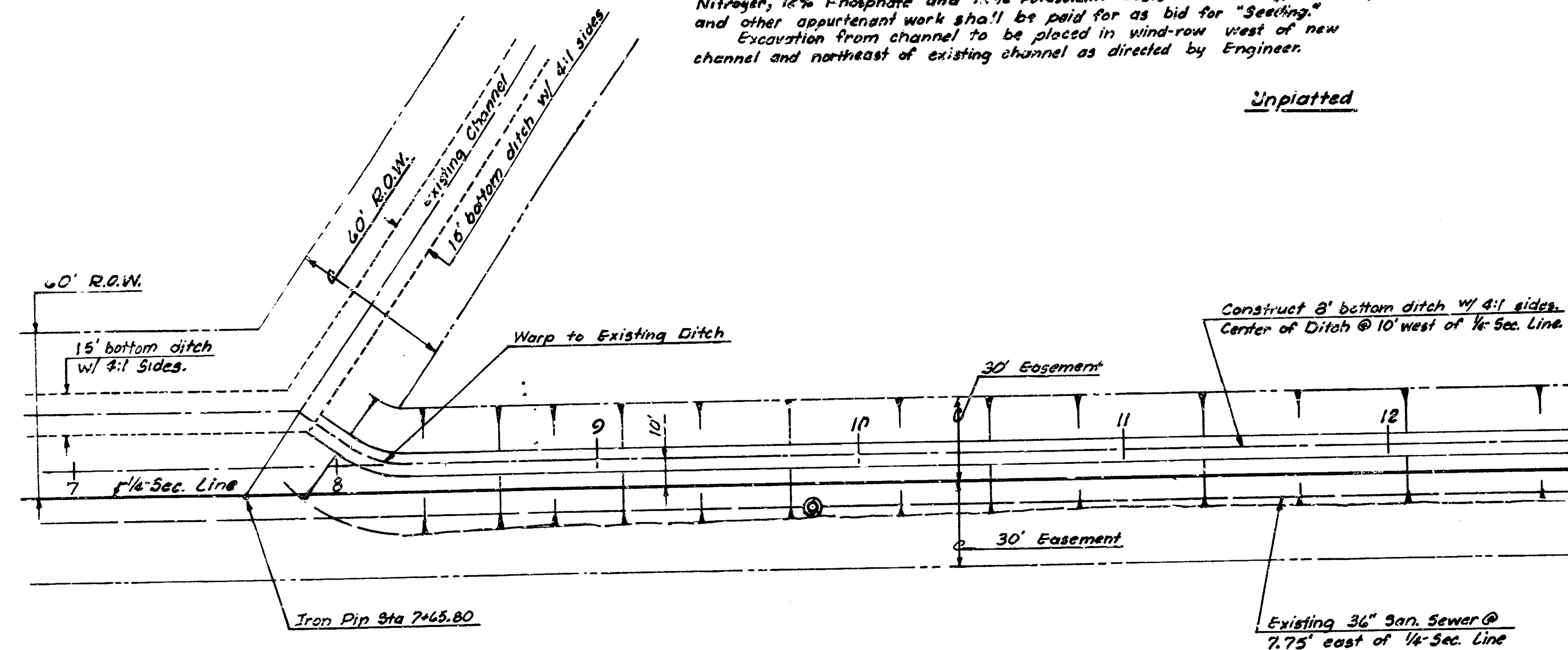
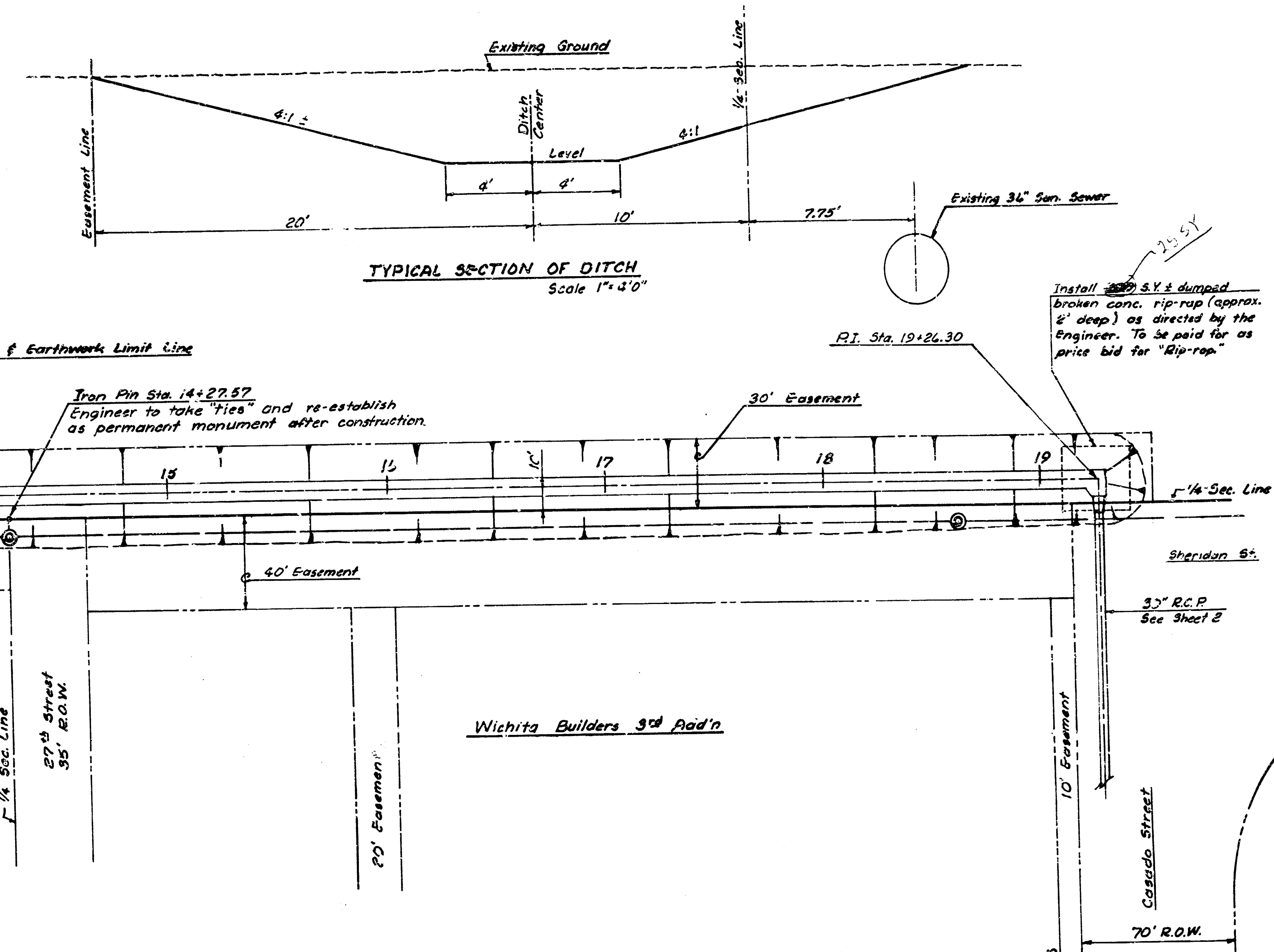
B.M. 103.59 City B.M. Disc, Top of S. rail @
E. end Box Culvert, Sheridan & 31st.

B.M. 102.15 N. rim M.H. @ S.W. cor.
of Sheridan & Casado.

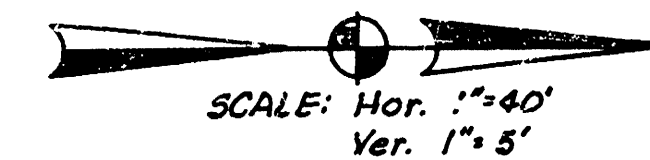
NOTE: All areas within earthwork limits shall be seeded in accordance
with Kansas State Highway 1964 Standard Specifications using mixed
native grass seed and prairie hay mulch. Seed shall be applied at 80 lbs
per acre and fertilizer at 300 lbs per acre. Fertilizer shall contain 18%
Nitrogen, 12% Phosphate and 14% Potassium. Costs for seeding, mulching
and other appurtenant work shall be paid for as bid for "Seeding."
Excavation from channel to be placed in wind-row west of new
channel and northeast of existing channel as directed by Engineer.

Sec. 1, T28S, R1W

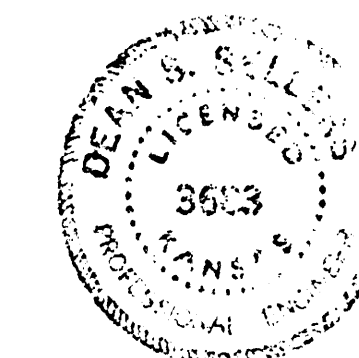
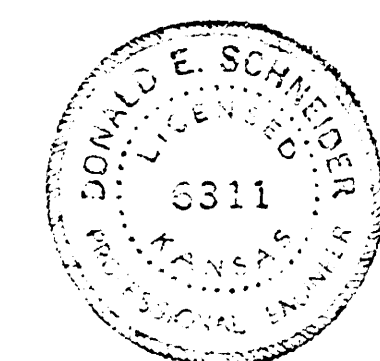
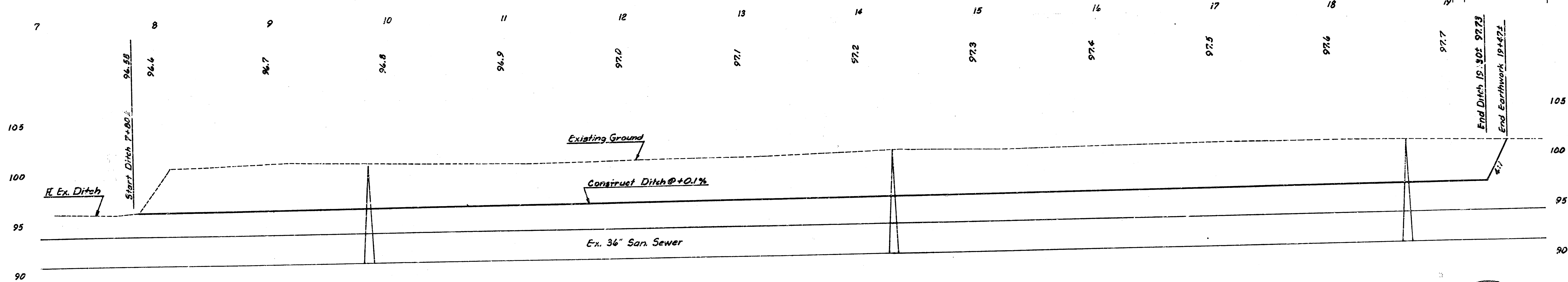
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NOTE: Earthwork between 42.00 to 43.00 C.Y.
Engineer to cross-section before and after
construction for earthwork quantities.



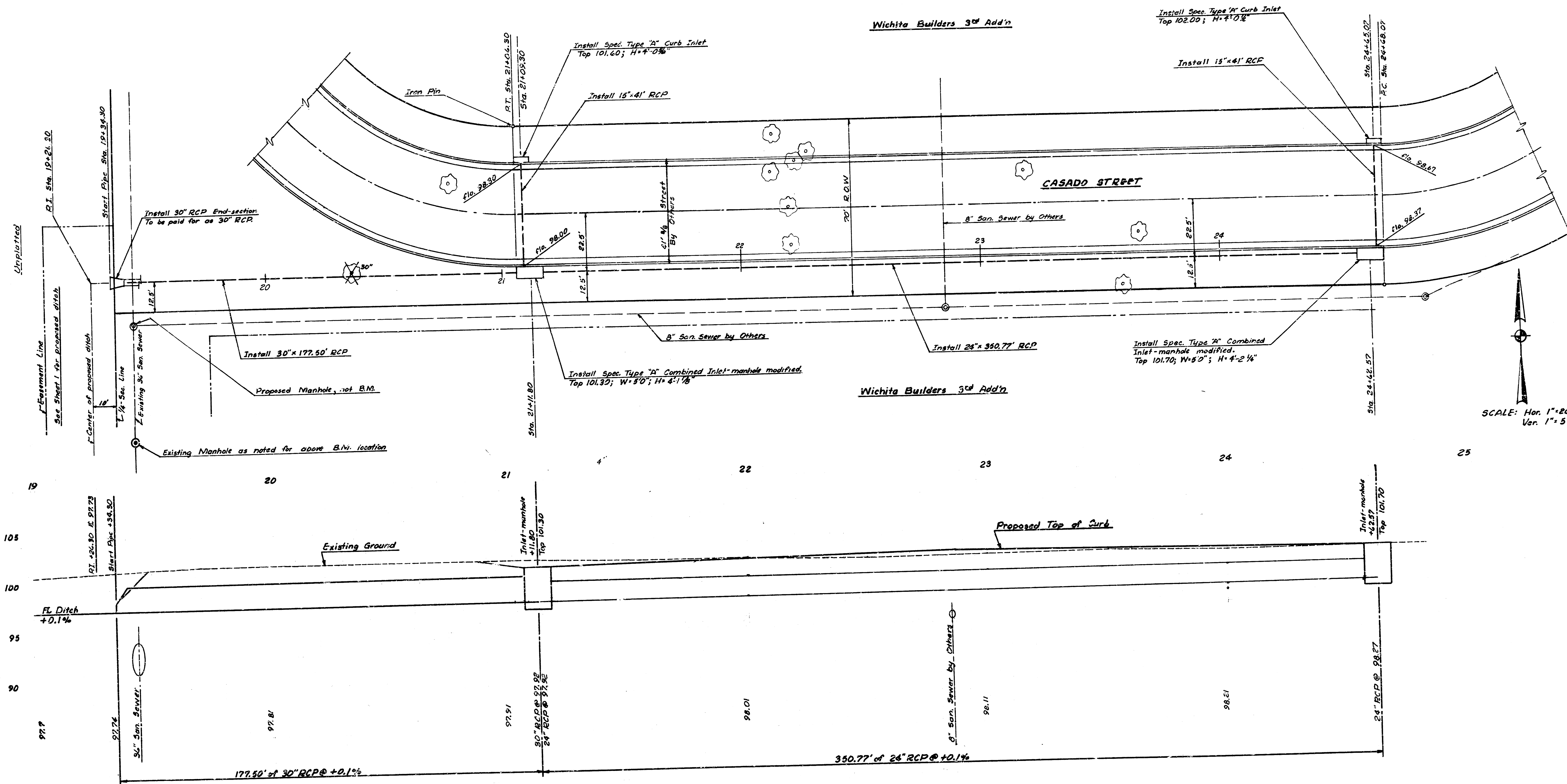
STORM WATER SEWER NO. 103
R.W. LINN, CITY ENGINEER
CITY OF WICHITA, KANSAS
PROJECT NO. DBKA 573007
DATE APRIL 1973 SHEET 1 OF 5 1/2

FILMED FROM THE BEST

B.M. 102.07 Iron in thimble at 1/4-sec. cor.
 Sheridan St. & Pennec, E. thimble.
 B.M. 102.15 N. Rim N.H. S.W. cor.
 Sheridan & Casado.

NOTE: Excess excavation from storm sewer to be stockpiled in
 Wichita Builders 3rd Add'n as directed by Engineer.

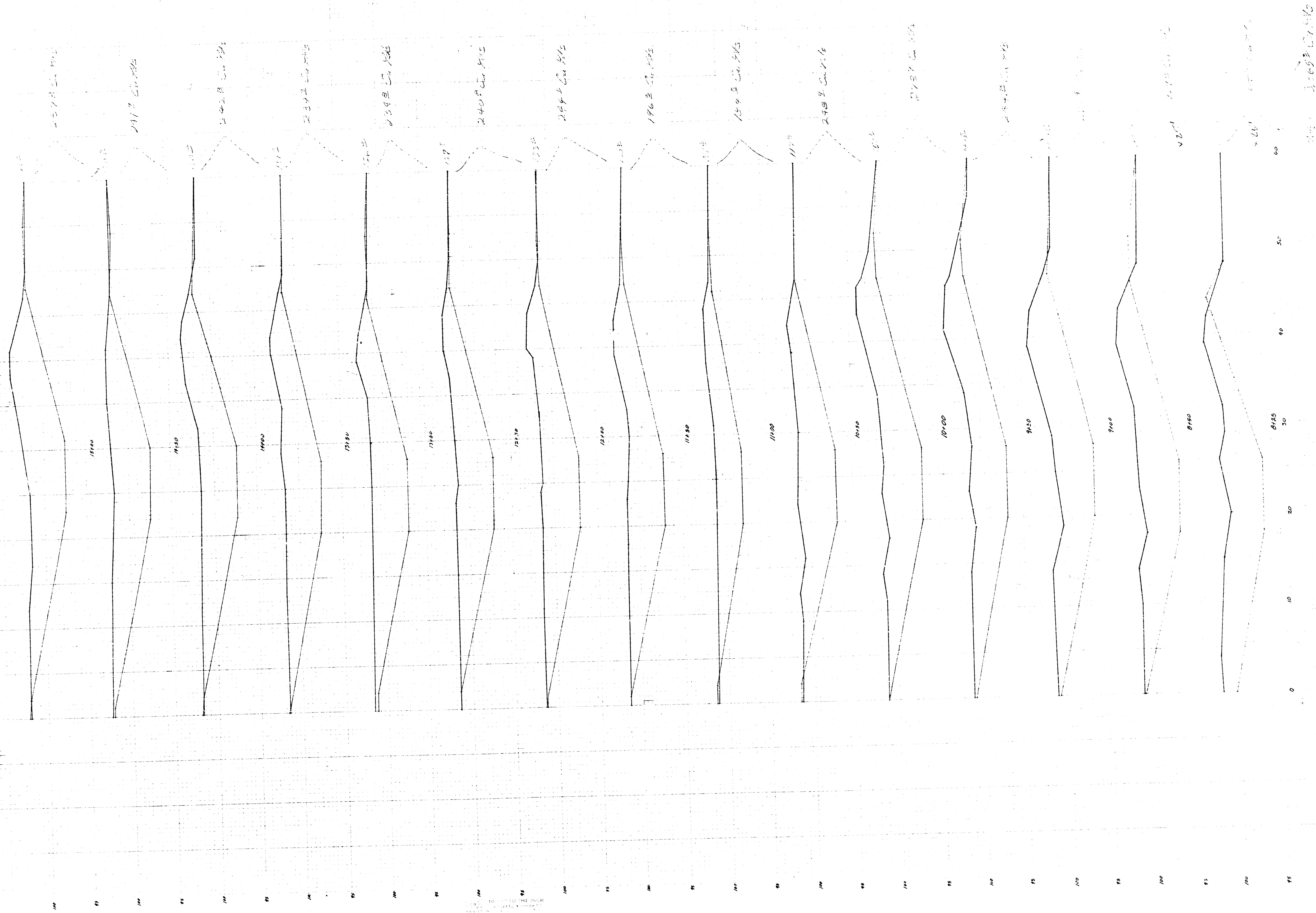
Sec. 1, T28S, R12W



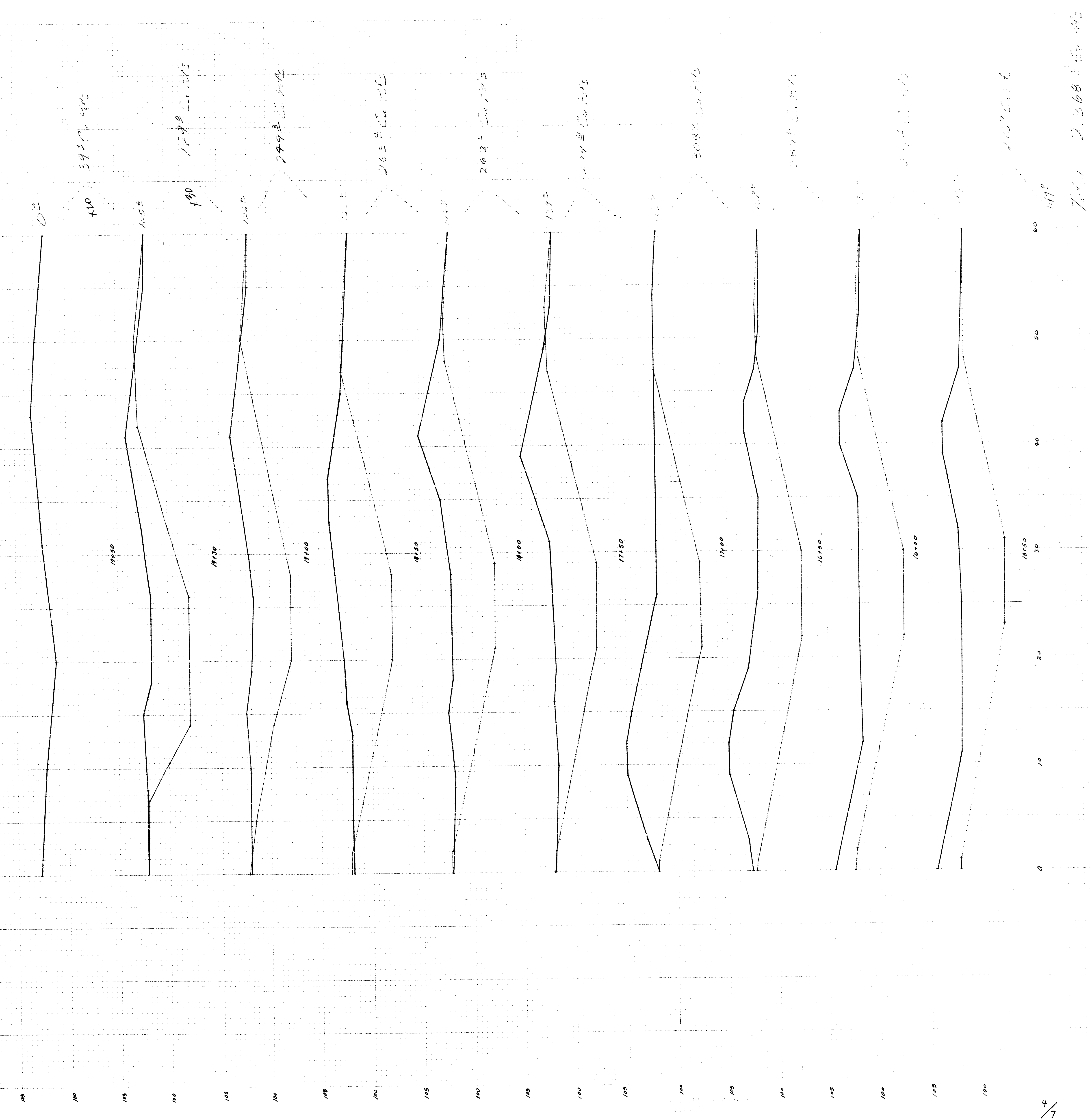
STORM WATER SEWER NO. 103
 Project No. DBKA 573007

Sheet 2 of 5 2/7

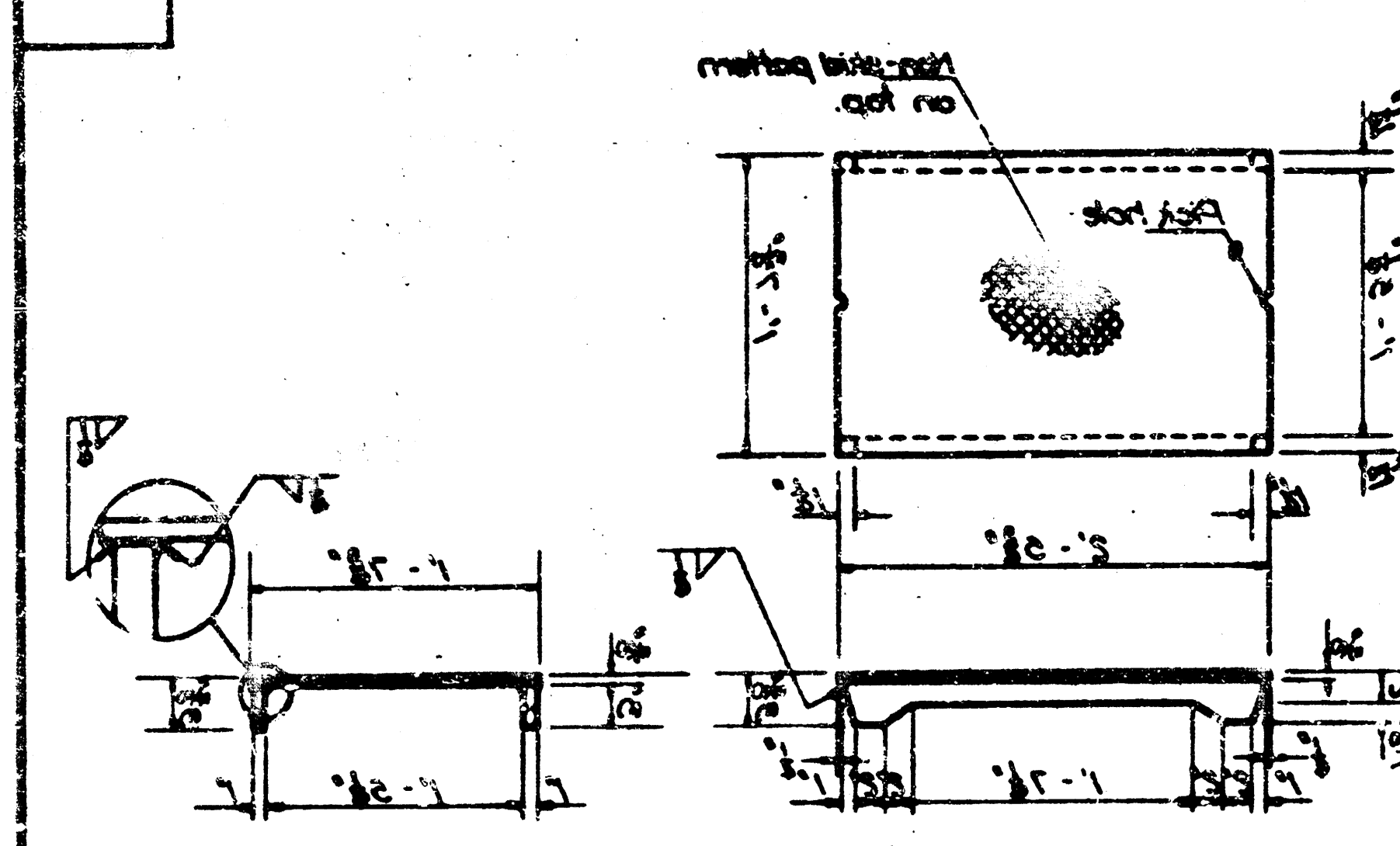
FILMED FROM THE BEST
 AVAILABLE COPY



Dirt cut at
Excavation
5,738.6 Cu Yds

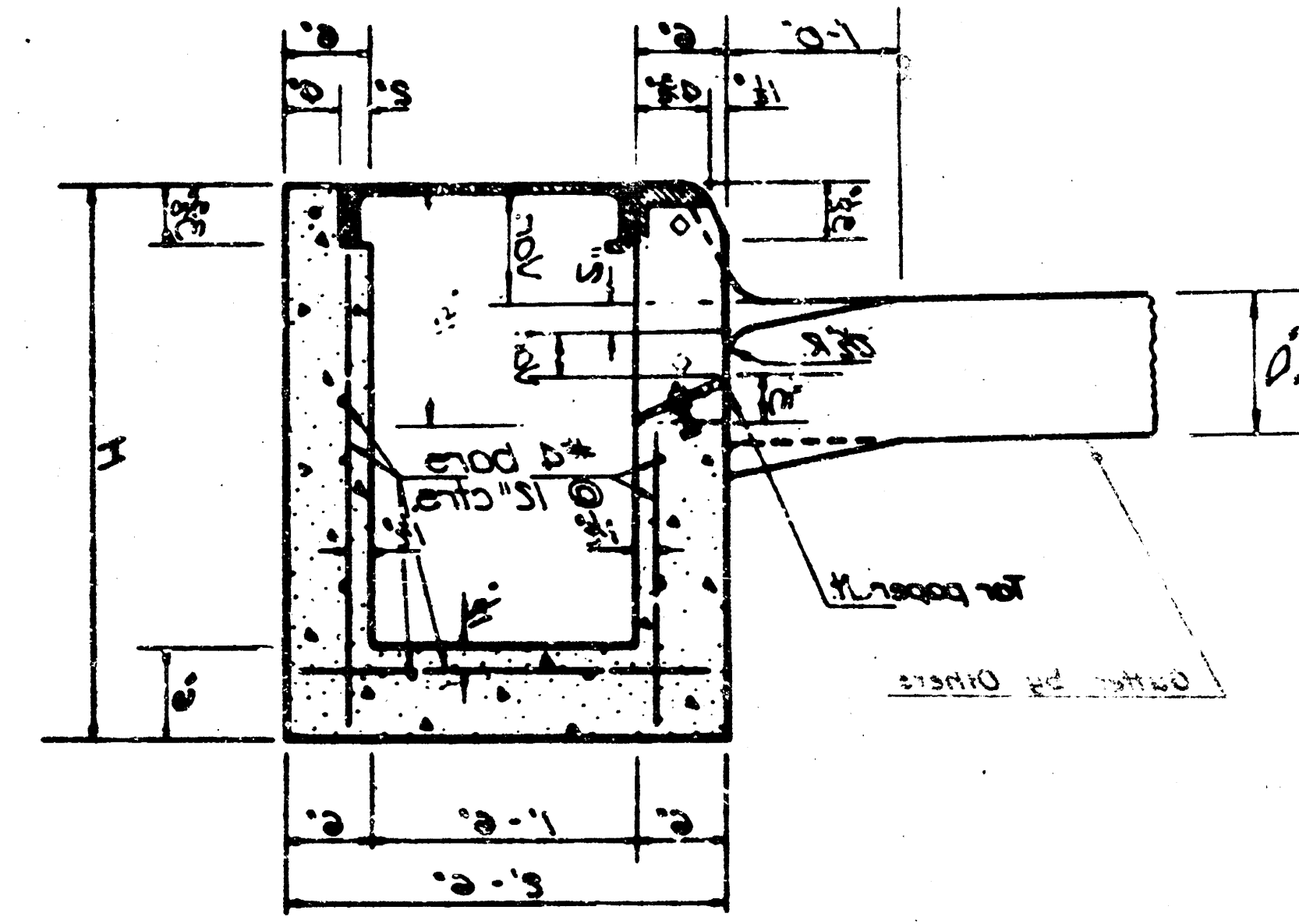


Part	Material	Quantity	Unit	Remarks
1	Steel	1.00	Sq. Ft.	For Inlet
2	Concrete	1.00	Cu. Yd.	For Inlet
3	Reinforcing Steel	1.00	Lbs.	For Inlet
4	Gravel	1.00	Cu. Yd.	For Inlet
5	Gravel	1.00	Cu. Yd.	For Inlet
6	Gravel	1.00	Cu. Yd.	For Inlet
7	Gravel	1.00	Cu. Yd.	For Inlet
8	Gravel	1.00	Cu. Yd.	For Inlet
9	Gravel	1.00	Cu. Yd.	For Inlet
10	Gravel	1.00	Cu. Yd.	For Inlet



*** STRUCTURAL STEEL COVER PLATE**
Weight 28 Lbs. Each

* Non-ribbed steel floor plate (Commercial grade) welded to steel (ASTM A-36 or A-441) base

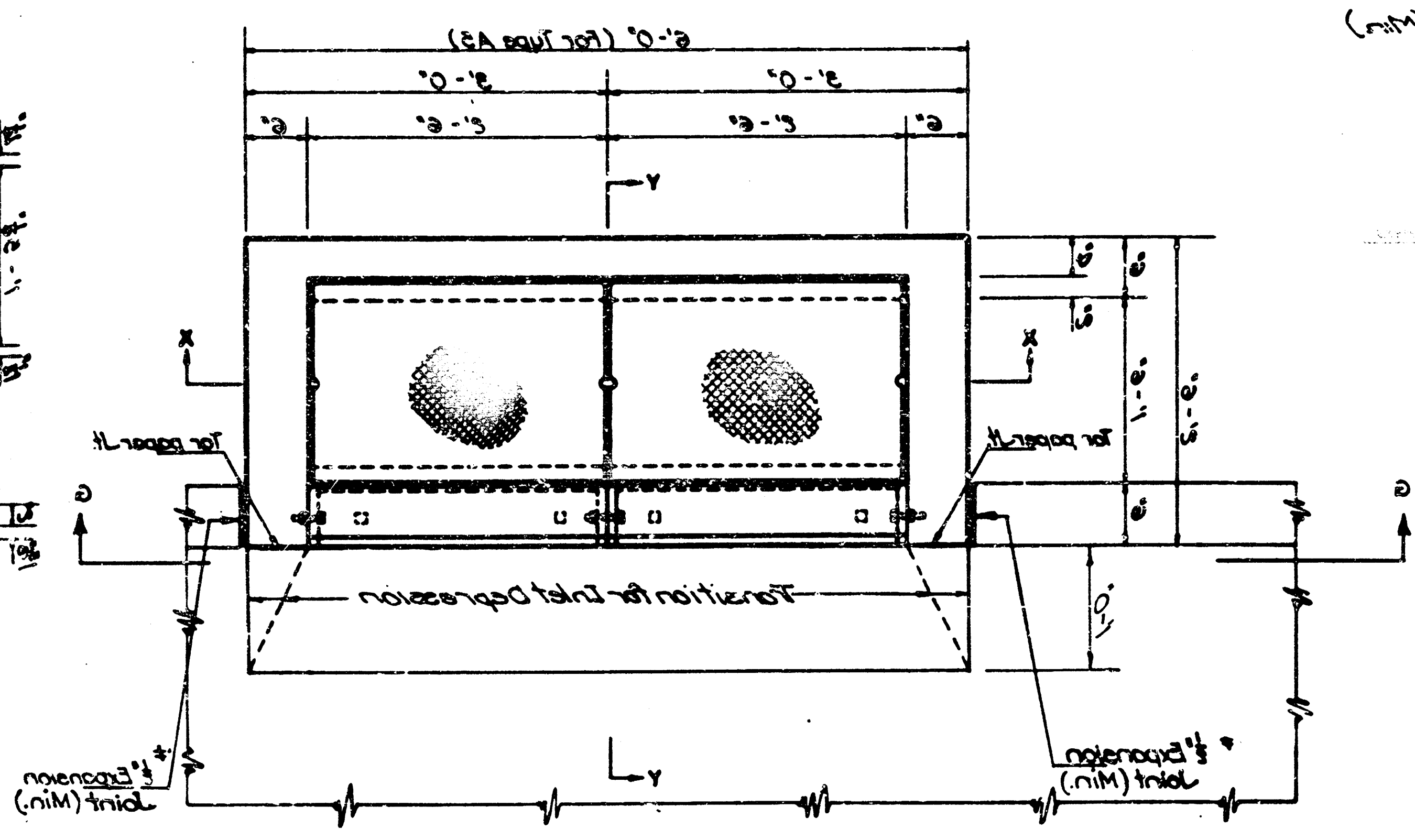


SECTION Y-Y

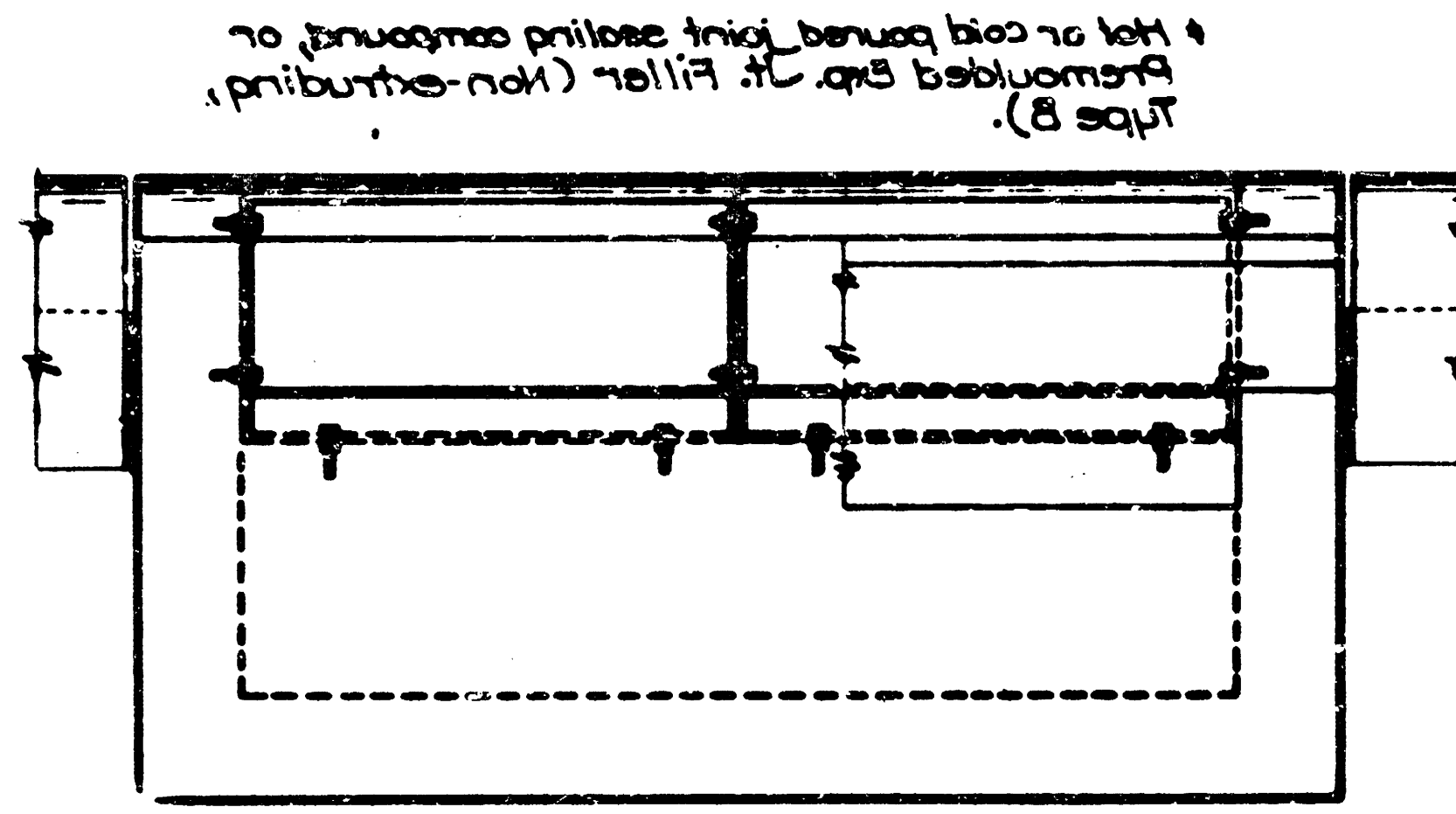
NOTE: See this sheet for shaping of depression at inlet. This work shall be paid for as Concrete Formwork.
Floor of inlet shall be sloped as shown in various "EXAMPLES" on Reinforced Concrete Manhole Standard No. 833.
Concrete used for shaping shall be sand mix concrete. No addition in concrete quantities shall be made for shaping floor of inlets.

Part	Material	Quantity	Unit	Remarks
1	Steel	1.00	Sq. Ft.	For Inlet
2	Concrete	1.00	Cu. Yd.	For Inlet
3	Reinforcing Steel	1.00	Lbs.	For Inlet
4	Gravel	1.00	Cu. Yd.	For Inlet
5	Gravel	1.00	Cu. Yd.	For Inlet
6	Gravel	1.00	Cu. Yd.	For Inlet
7	Gravel	1.00	Cu. Yd.	For Inlet
8	Gravel	1.00	Cu. Yd.	For Inlet
9	Gravel	1.00	Cu. Yd.	For Inlet
10	Gravel	1.00	Cu. Yd.	For Inlet

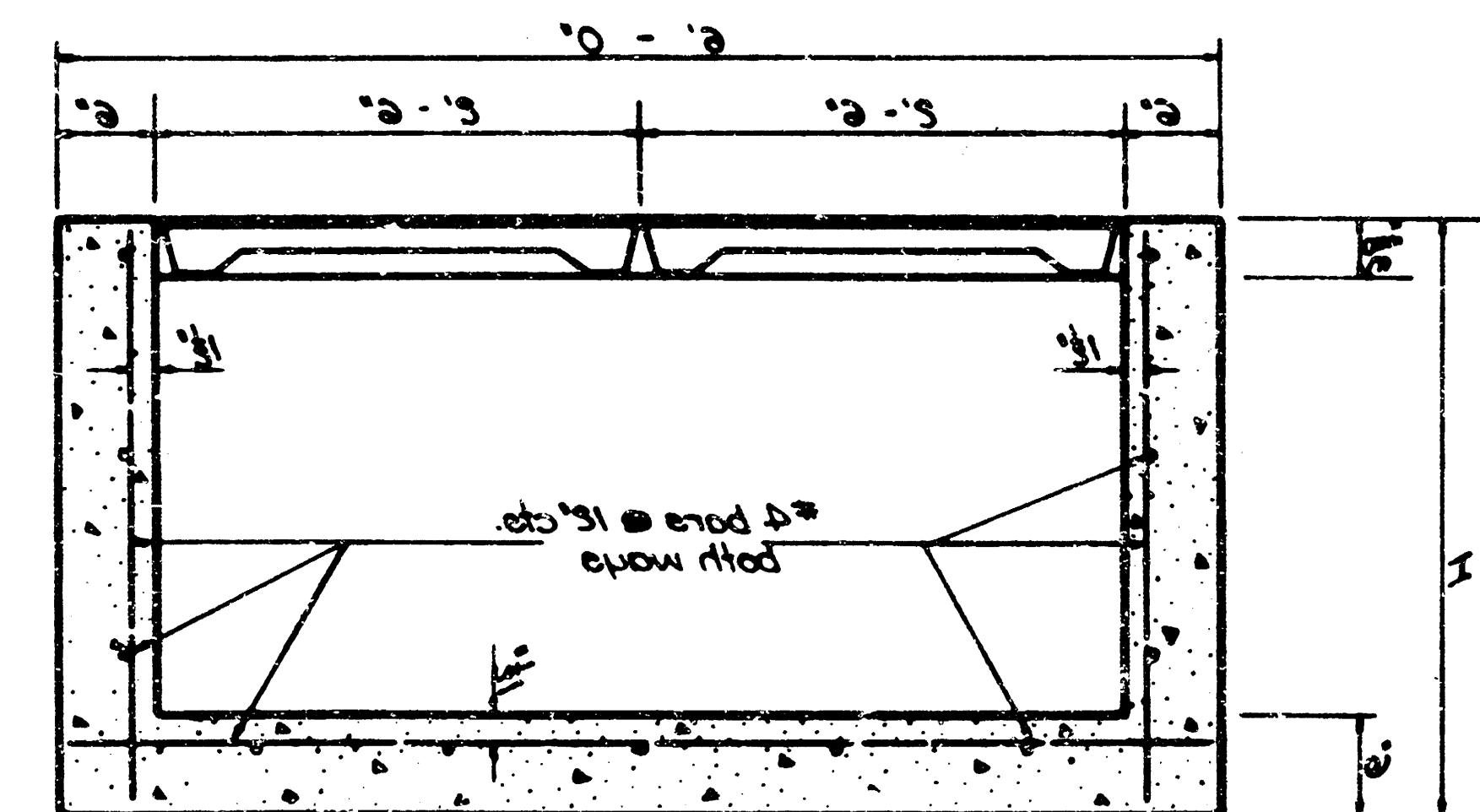
SPECIAL TYPE 'A' CURB INLET



PLAN



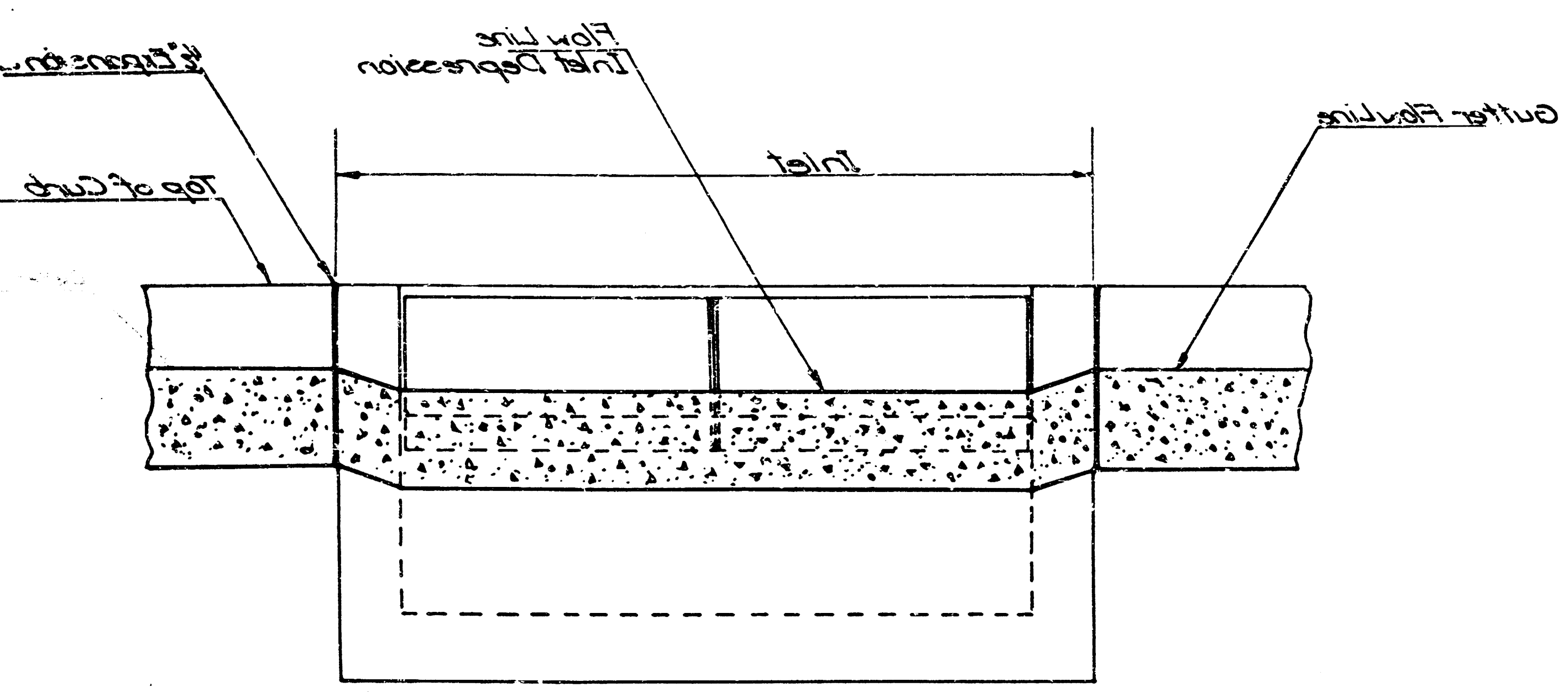
FRONT ELEVATION



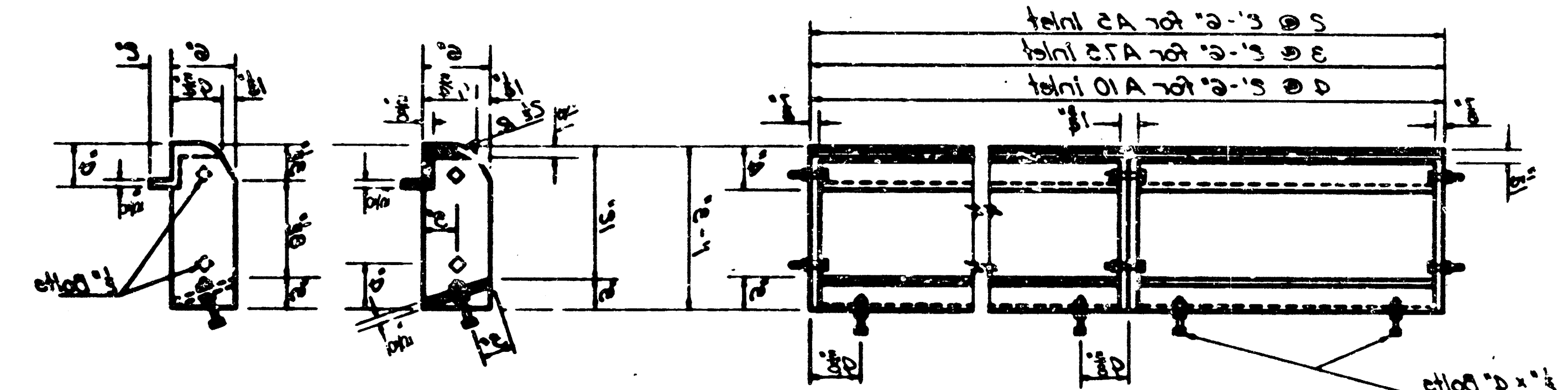
SECTION X-X

NOTE: Reinforcing bars will extend through the opening. No deduction in concrete quantities will be made for this opening.
When so ordered by the Engineer the top of the inlet shall be sloped slightly to approximate fit the ground line or other conditions.
Structural steel cover plate and all exposed cast iron surfaces shall be painted either in the shop or in the field with one coat of zinc dust paint, followed by two coats of aluminum paint.
No substitutions of design will be permitted or printing.

NOTE: Use Forming Concrete throughout. Develop all exposed edges with 1/2" triangular mounding.
Reinforcing bars shall be bent around plate.
No deduction in concrete quantities shall be made for pipe openings.
At the contractor's option Class A concrete (ASTM A-441) may be used throughout and reinforcement may be Class A concrete reinforcement. A small opening may be reinforced in the back of the inlet to drain a low area, if ordered by the Engineer.

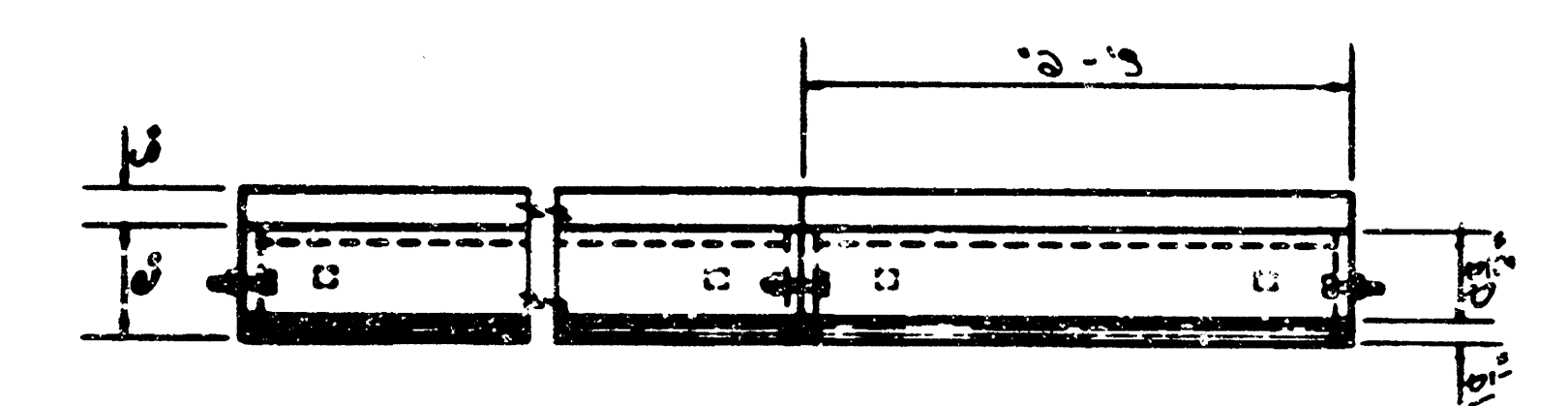


SECTION C-C

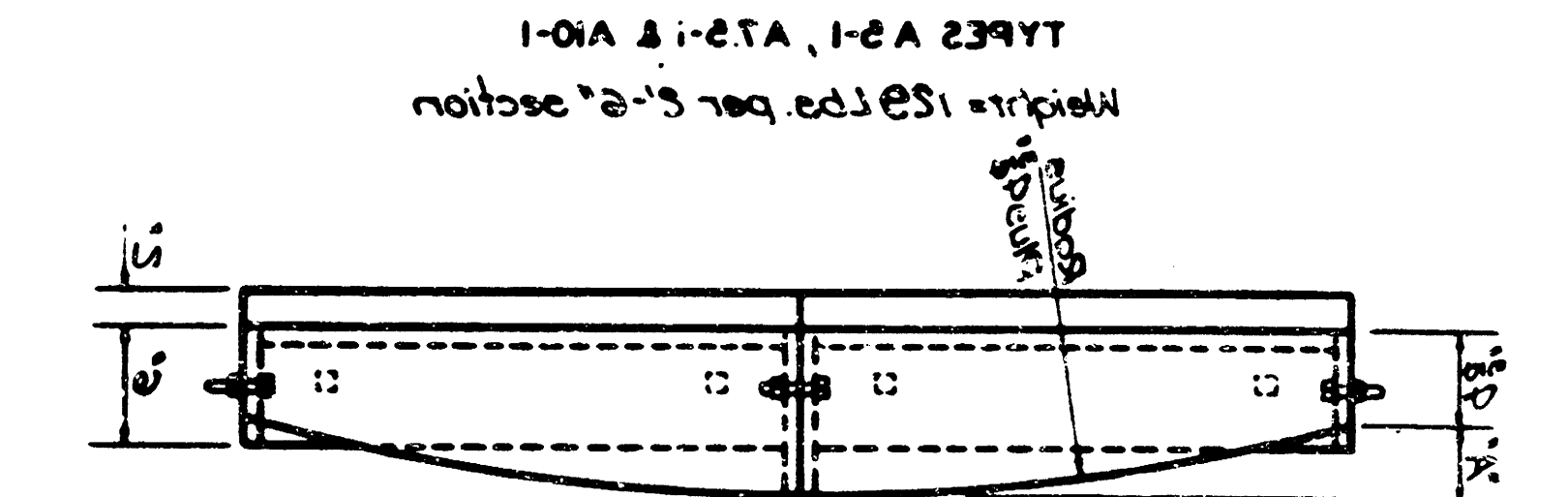


SECTION A-A

NOTE: All bolts and nuts shall be deoxidized and meet the requirements of section 11.5 of the 1986 specifications.



PLAN



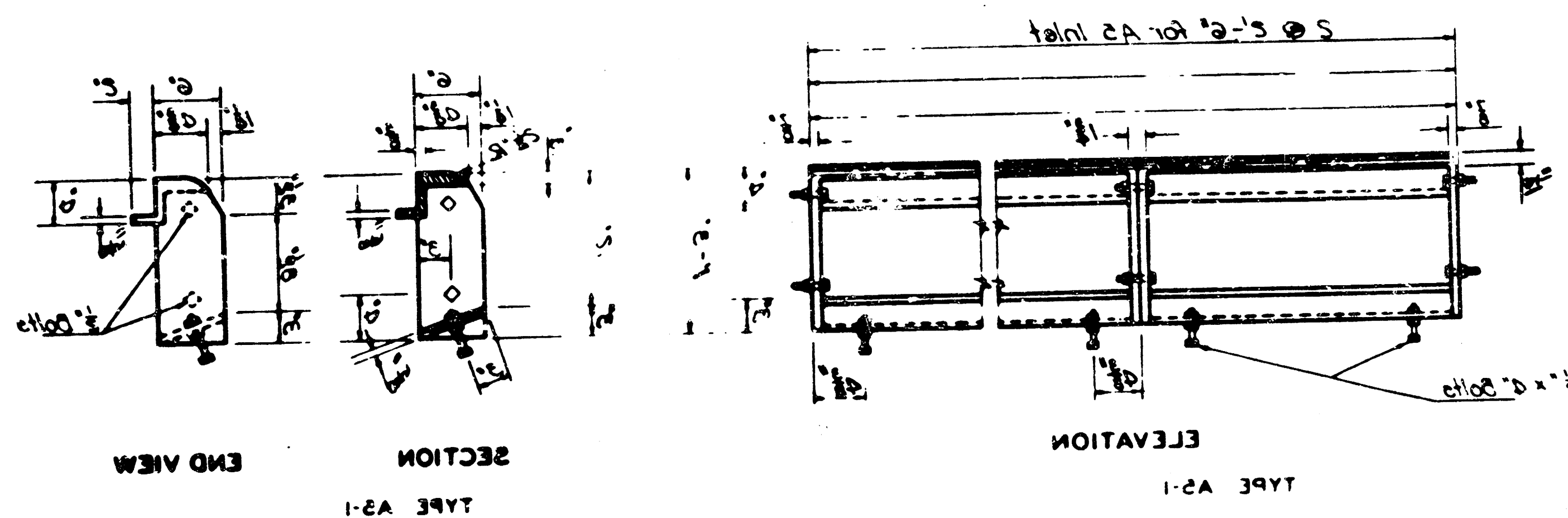
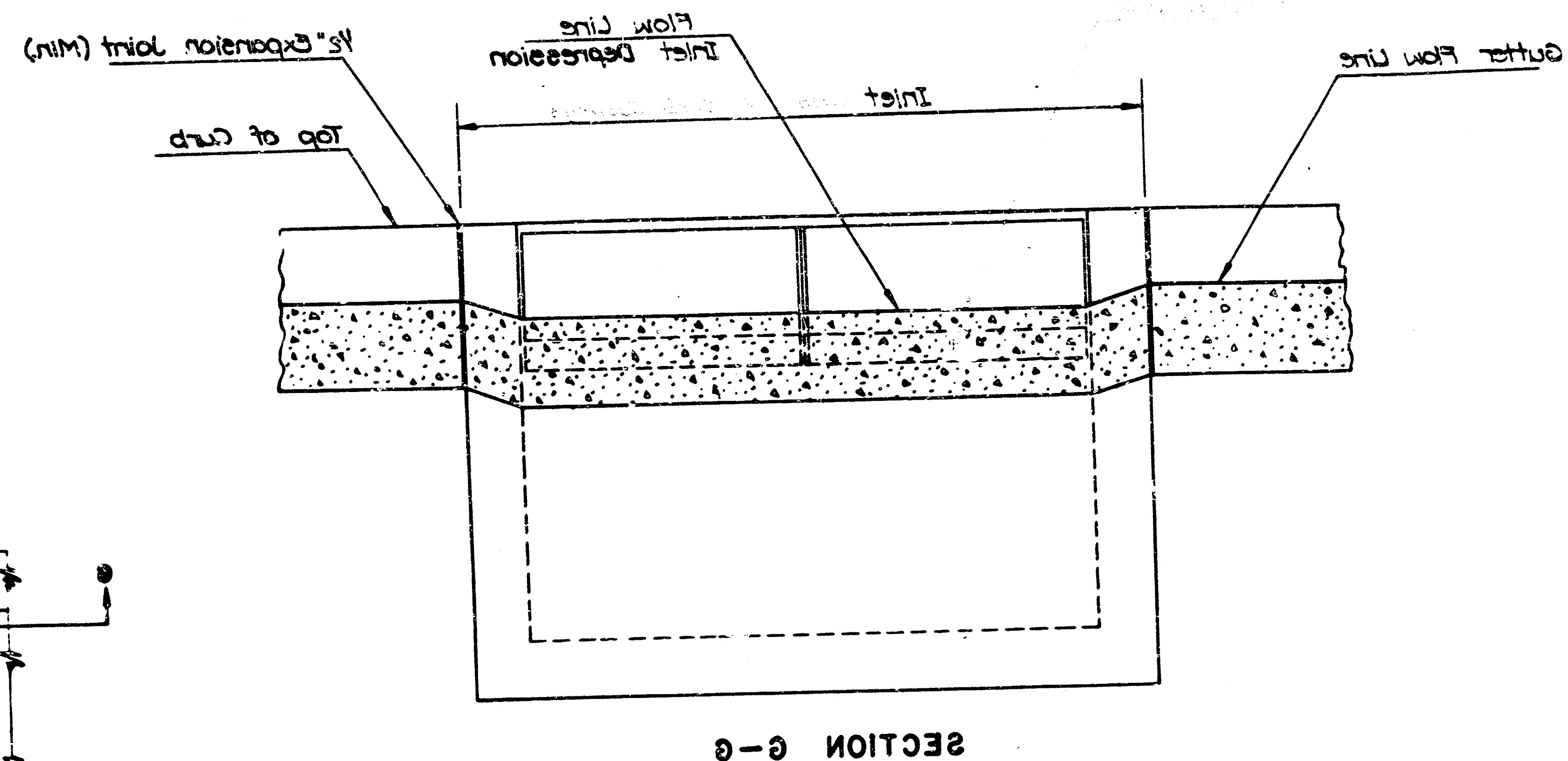
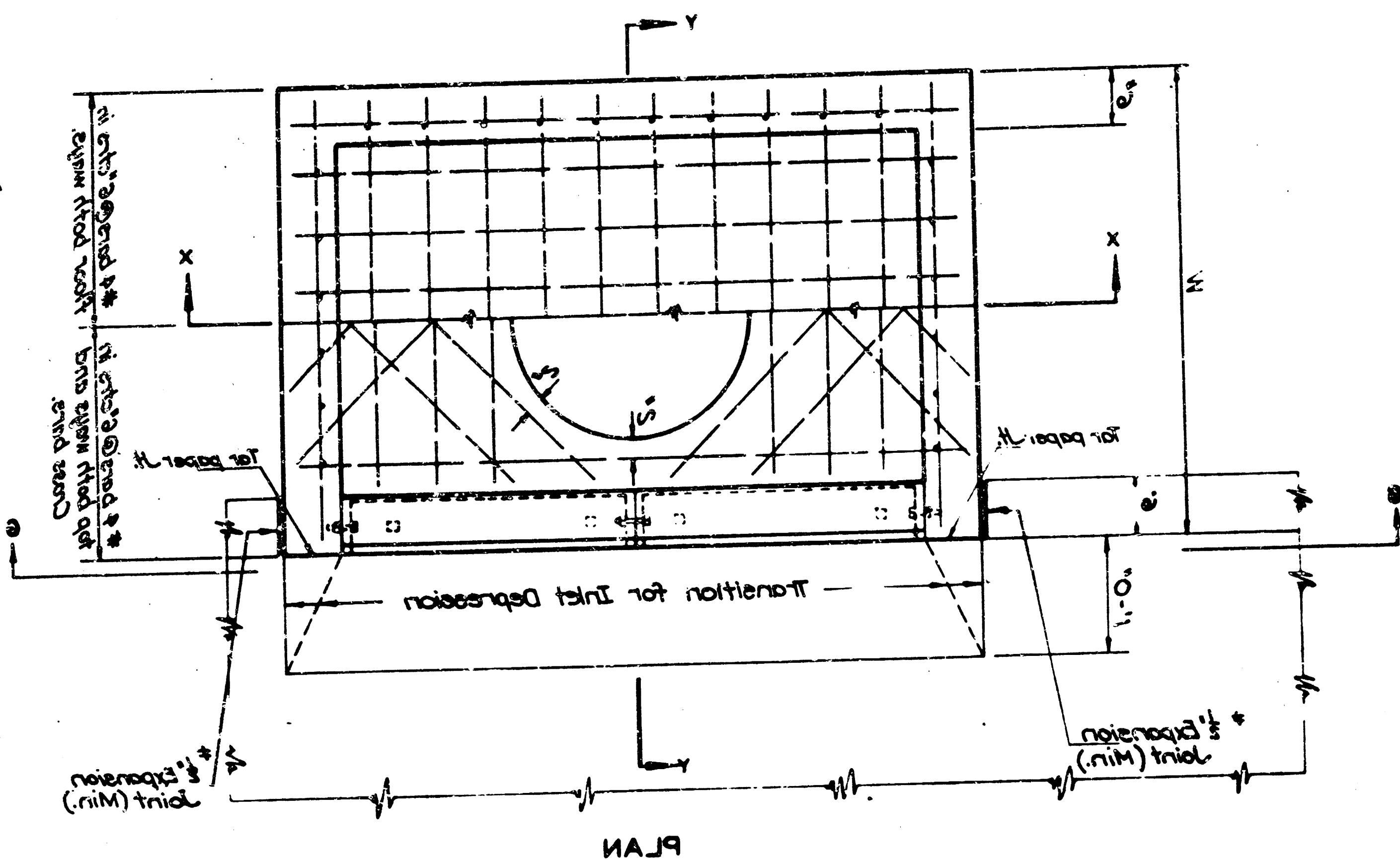
SECTION A-A

DETAILS OF CURB CASTING (IRON)

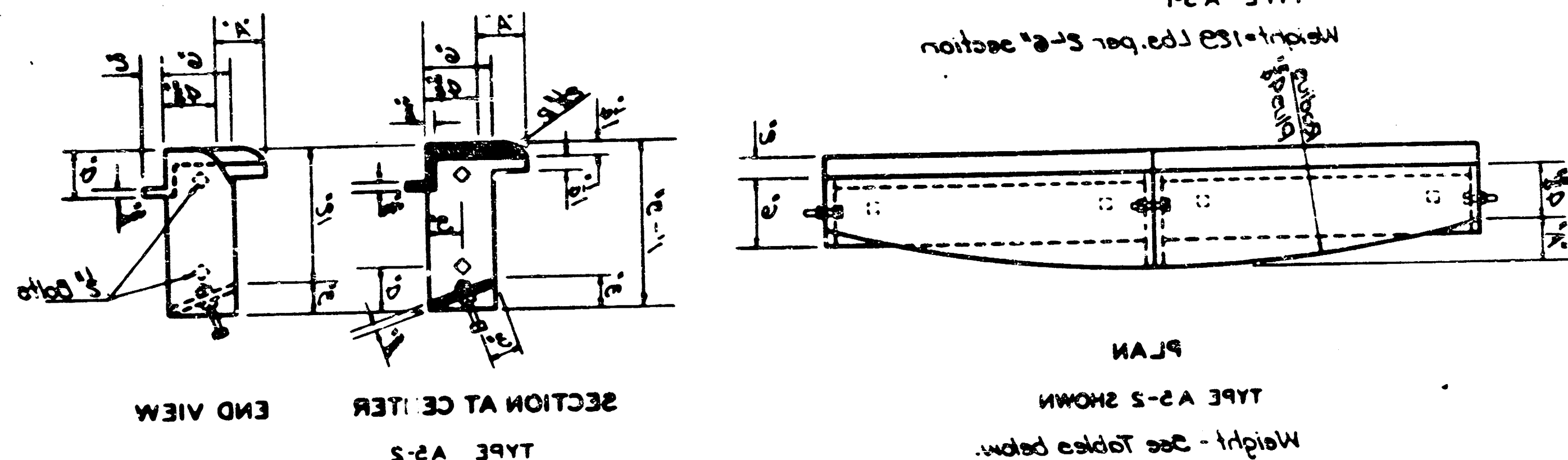
FOR TYPE A-1 CASTINGS	FOR TYPE A-2 CASTINGS	FOR TYPE A-3 CASTINGS
Weight lbs. 5.00	Weight lbs. 5.00	Weight lbs. 5.00
Radius 1.00	Radius 1.00	Radius 1.00
Weight lbs. 5.00	Weight lbs. 5.00	Weight lbs. 5.00
Radius 1.00	Radius 1.00	Radius 1.00
Weight lbs. 5.00	Weight lbs. 5.00	Weight lbs. 5.00
Radius 1.00	Radius 1.00	Radius 1.00

NOTE: Weights given in tables above are total weights for curb castings only.
All weights of castings are calculated weights with allowance for fillets, overruns, and other parts and bolts.

Note: Use Round Concrete throughout.
Reinforcing bars shall be bent around
bevel all exposed edges with a 1/4"
Note: Use Round Concrete throughout.

[illegible]

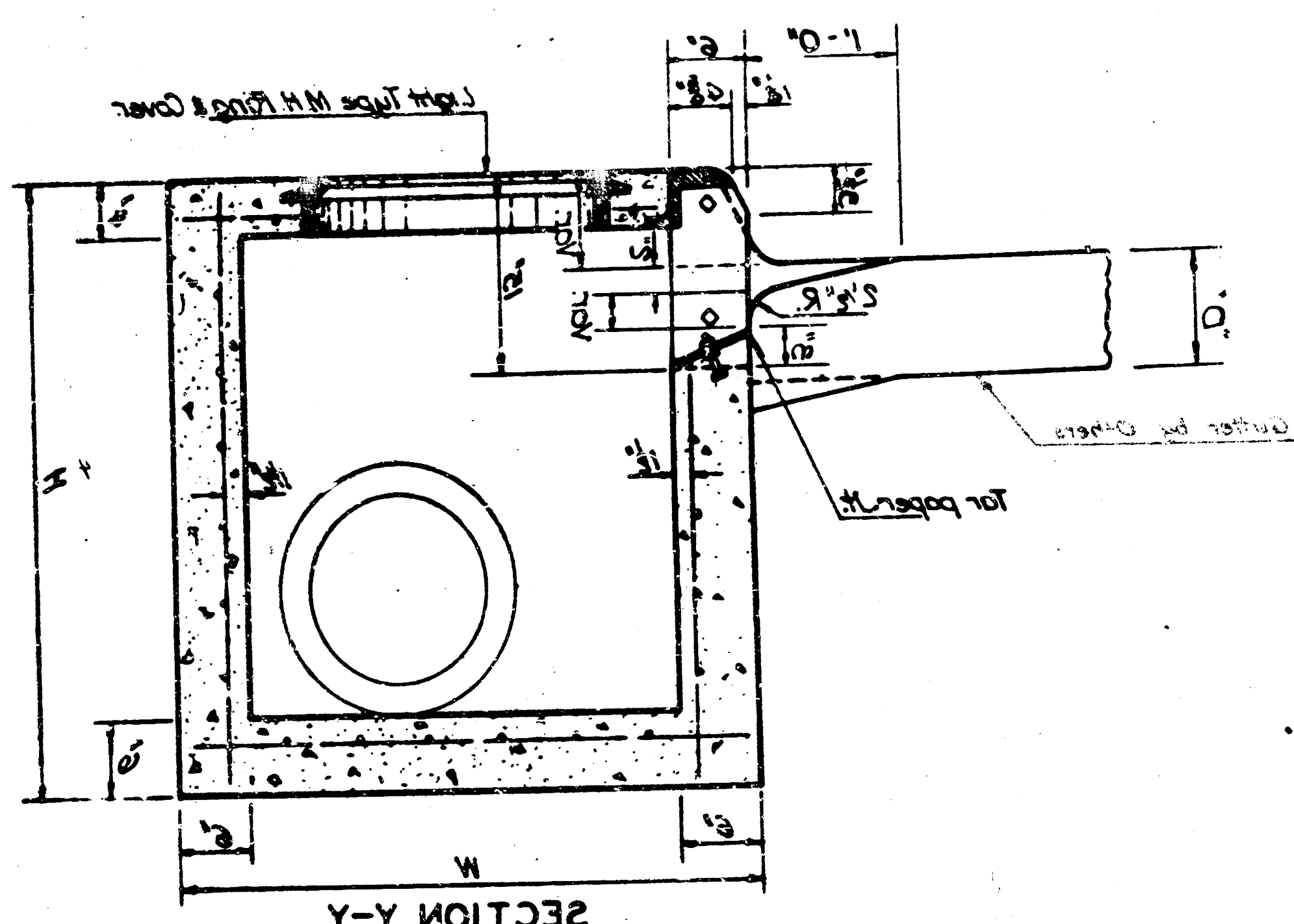
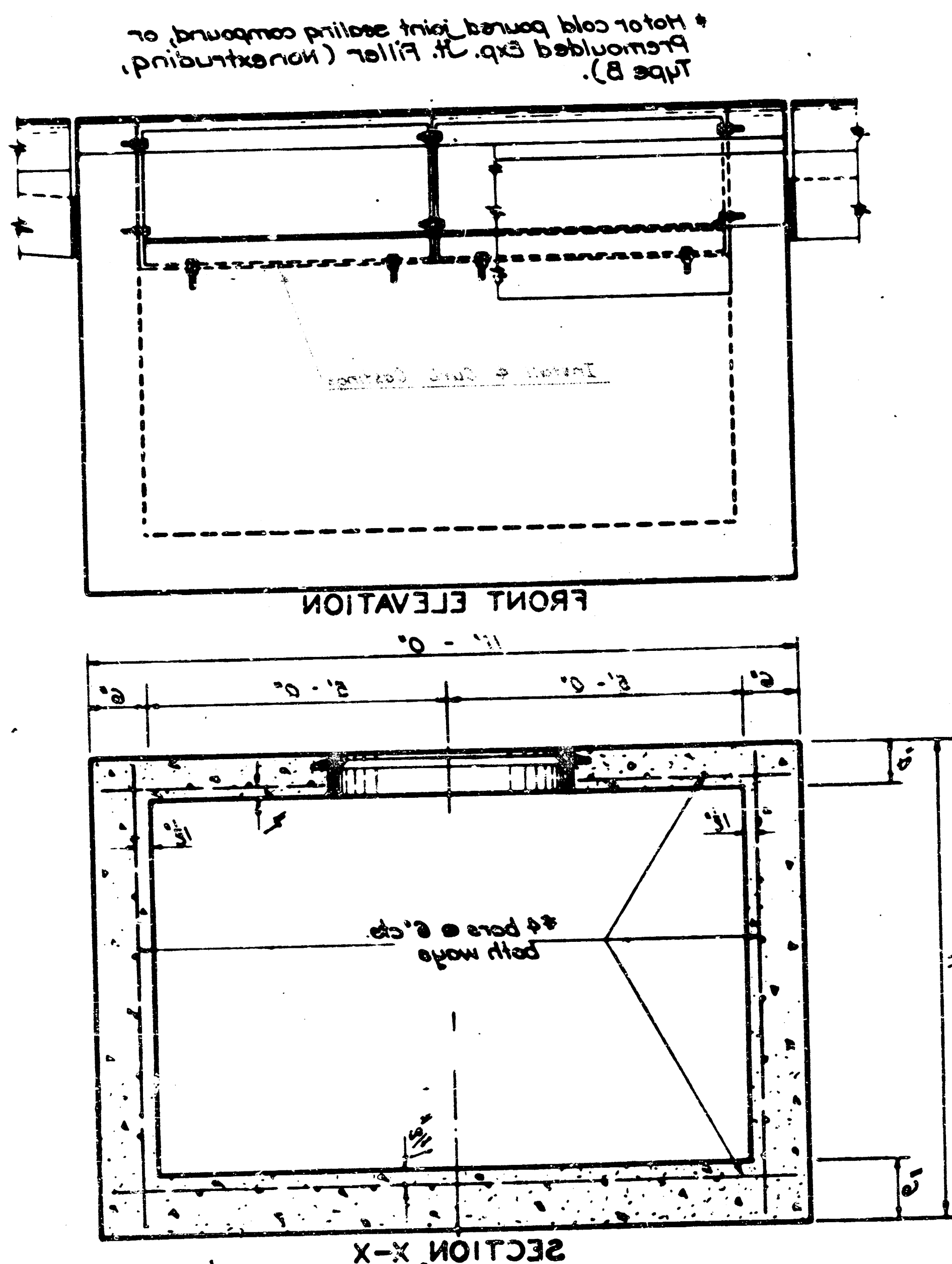
basinavlop ad llarde etun bno etlod IIA :370K
noitsee-due to etnemeniupst art team bno
anoitacilicqz aael art to S-21U



DETAILS OF CURB CASTING (IRON)

FOR TYPE A2-S CASTINGS			
30	25	20	Robins
15	10	5	A
5	5	5	Weight

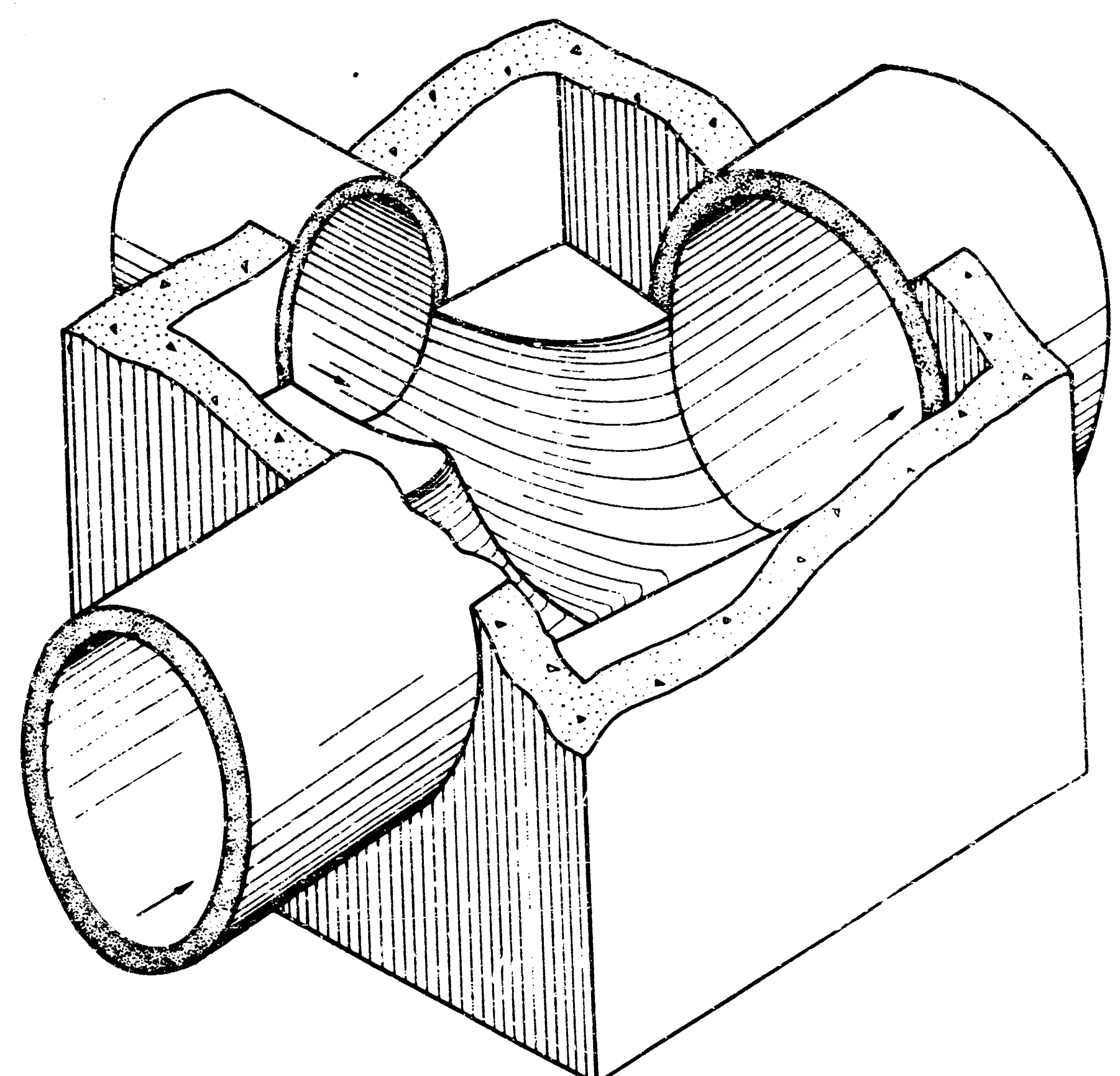
NOTE: Weights given in tables above are total weights for
Cup Coatings only.
All weights of coatings are calculated weights with
allowance for fillers, overruns, anchor pots
and pot loss.

[illegible][illegible]

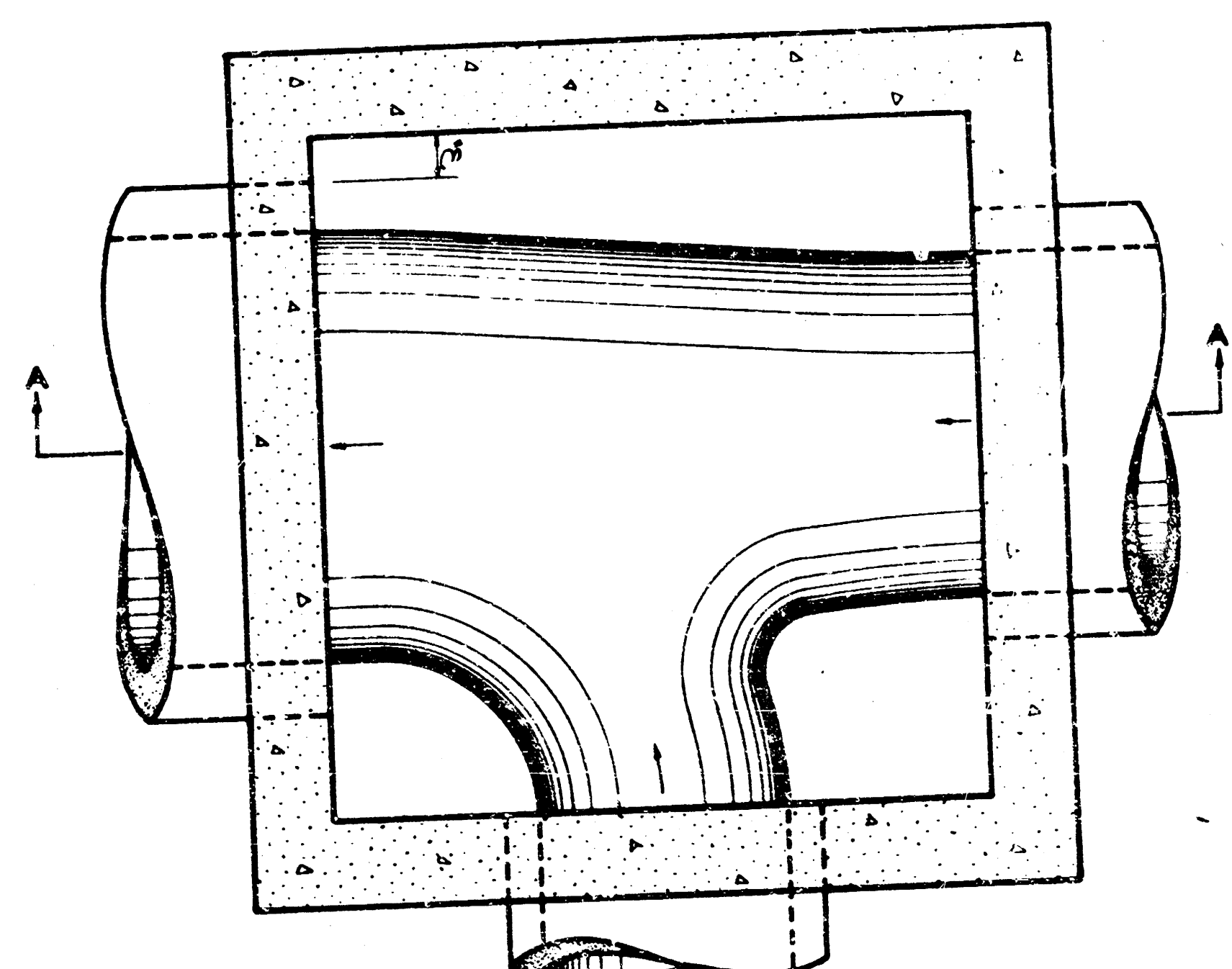
STATE HIGHWAY COMMISSION OF KANSAS

COMBINED INLET-MANHOLE
SPECIAL TYPE "A"

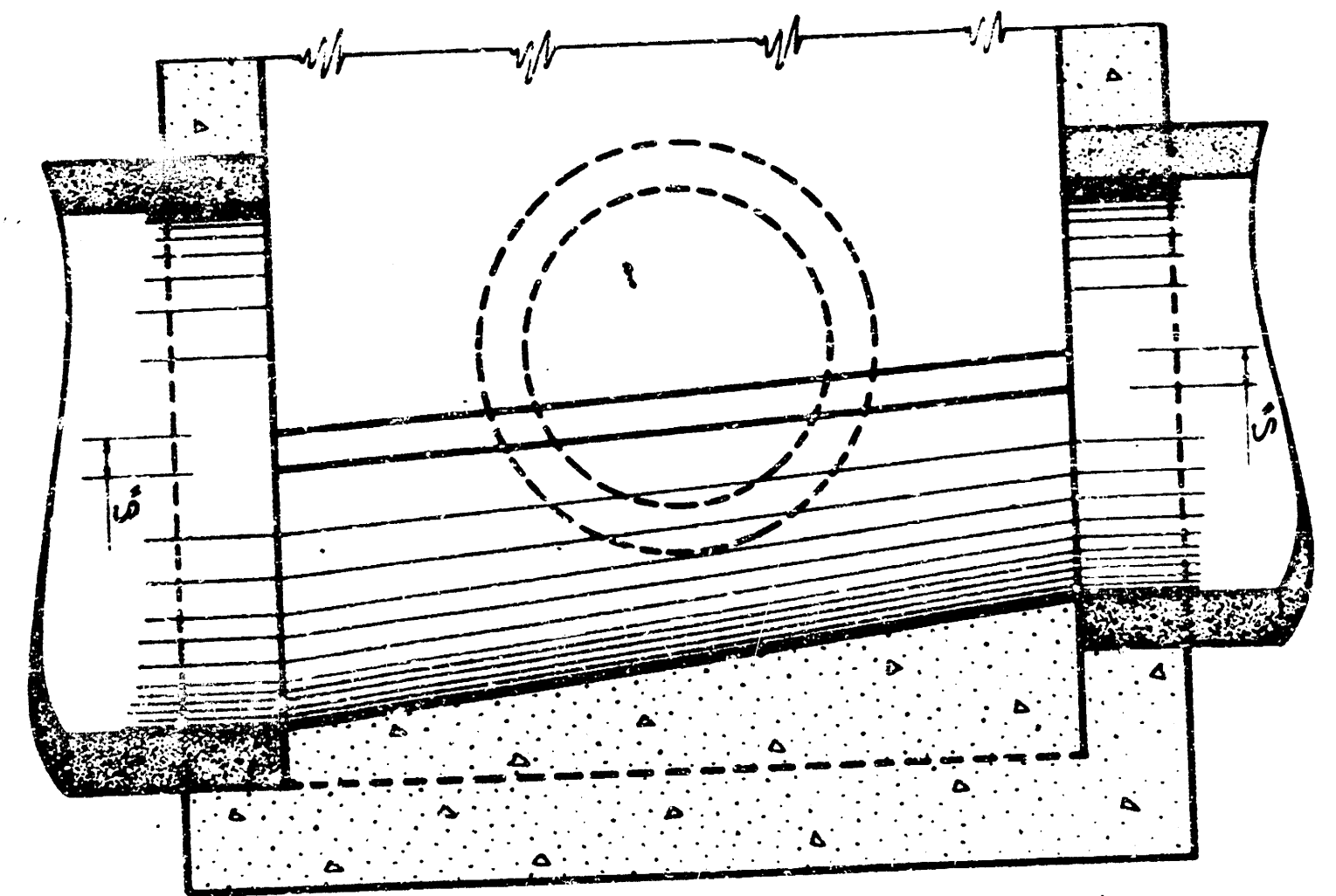
SECRETED BY A. APPROVED BY A. DATE 2/25/50



SECTIONAL VIEW (EXAMPLE IV)
Showing Floor Shading

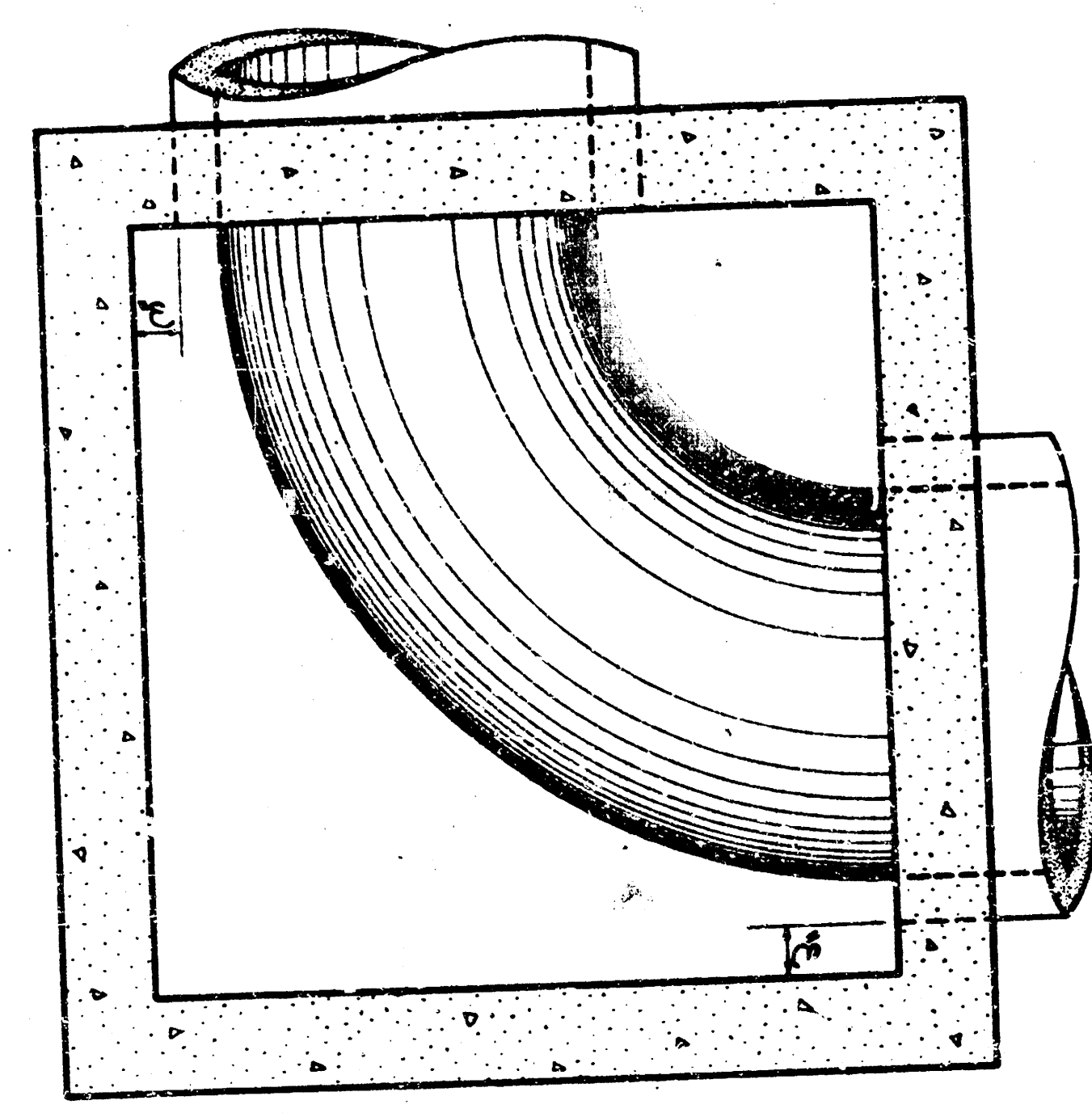


FLOOR PLAN (EXAMPLE IV)

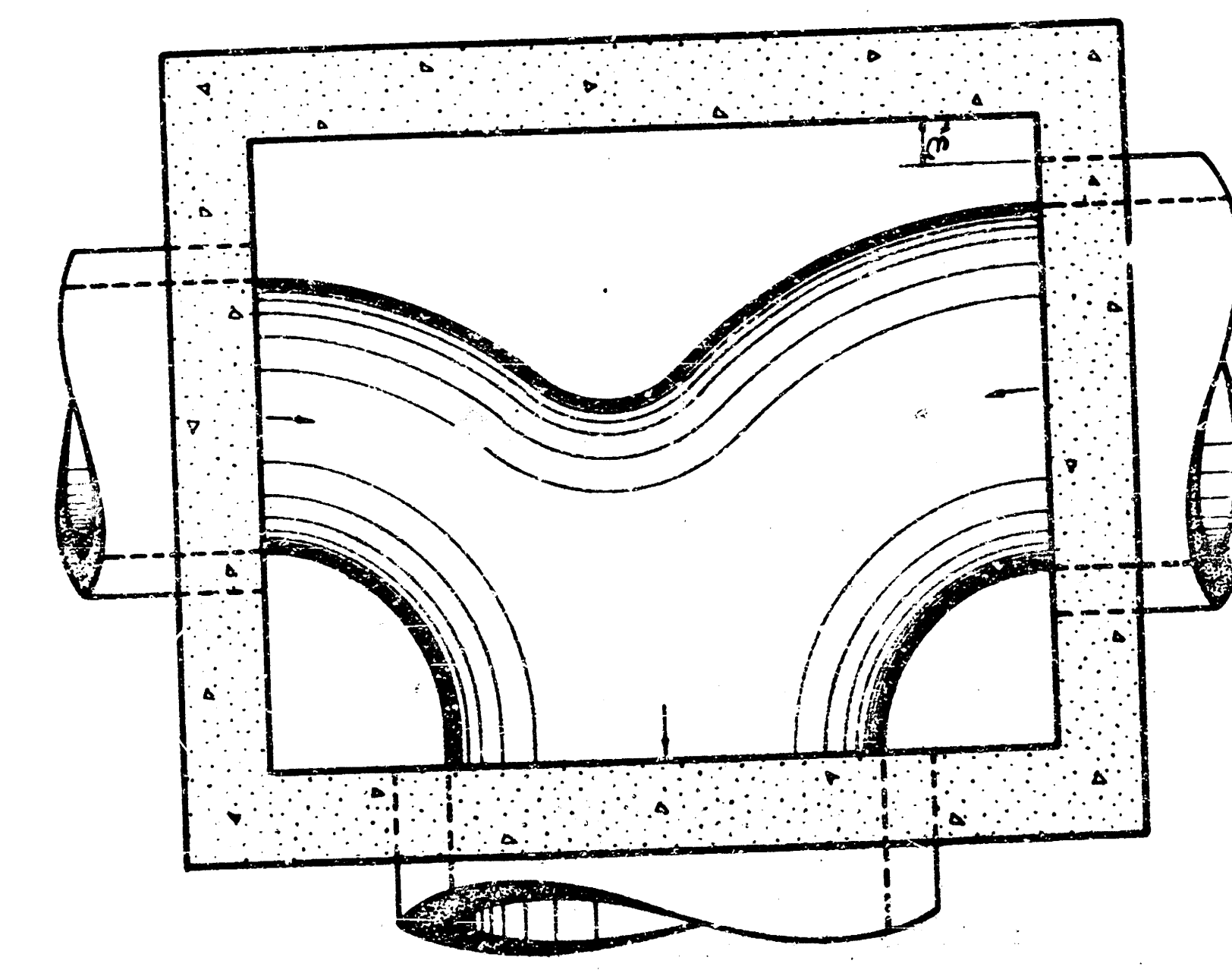


SECTION A-A (EXAMPLE IV)

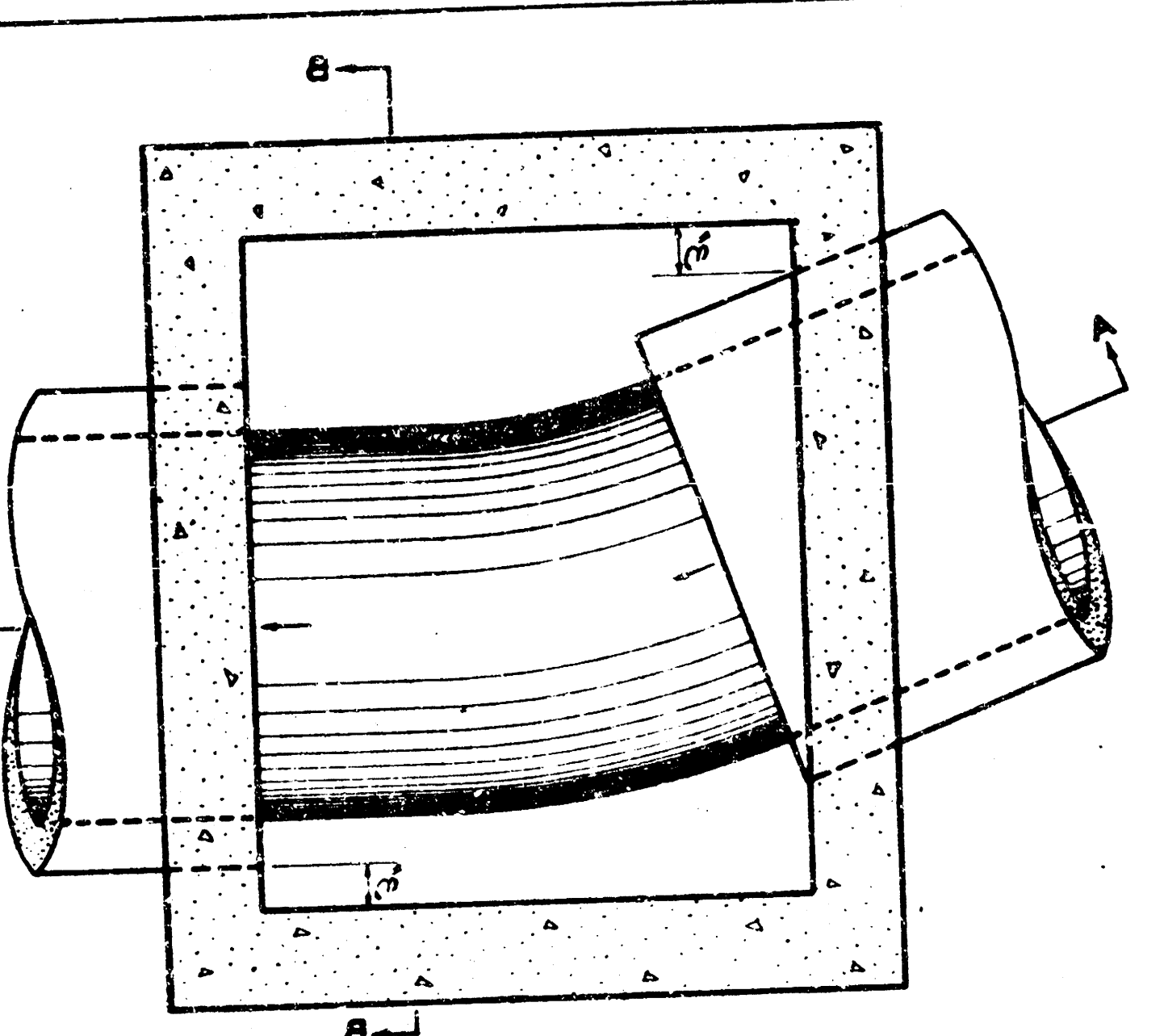
TYPICAL EXAMPLES OF VARIOUS PIPE COMBINATIONS
Showing method of shading floor of manholes to provide increased hydraulic efficiency for reinforcing & other features see "PLAN" and "SECTION".



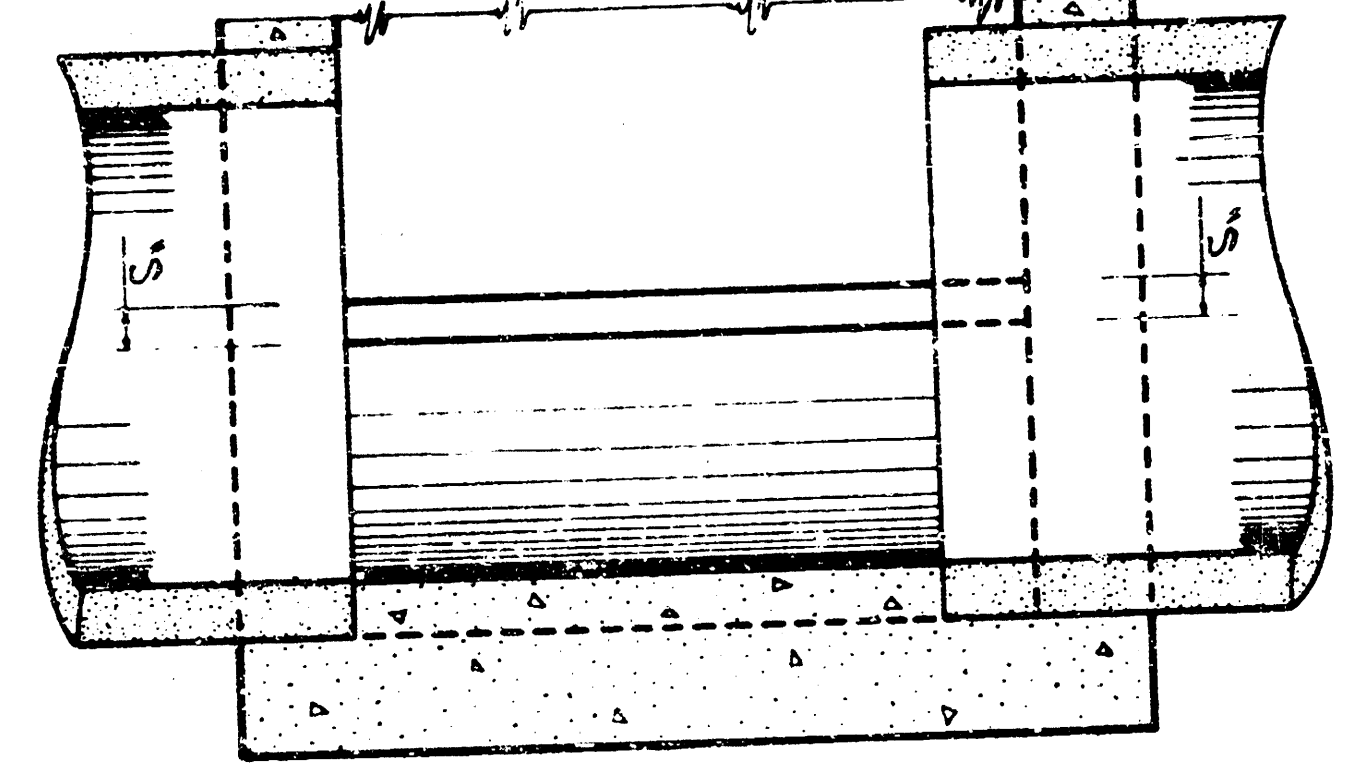
FLOOR PLAN (EXAMPLE II)



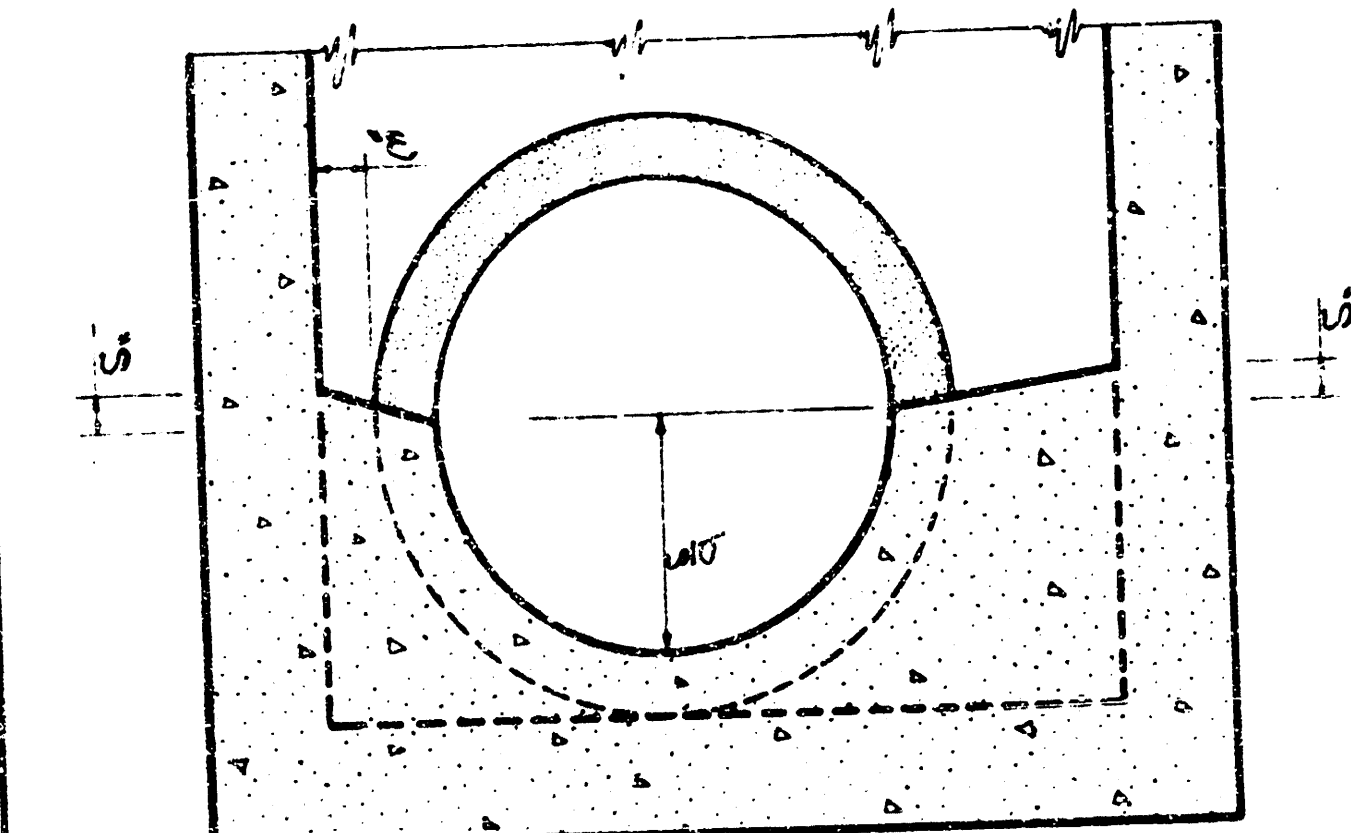
FLOOR PLAN (EXAMPLE III)



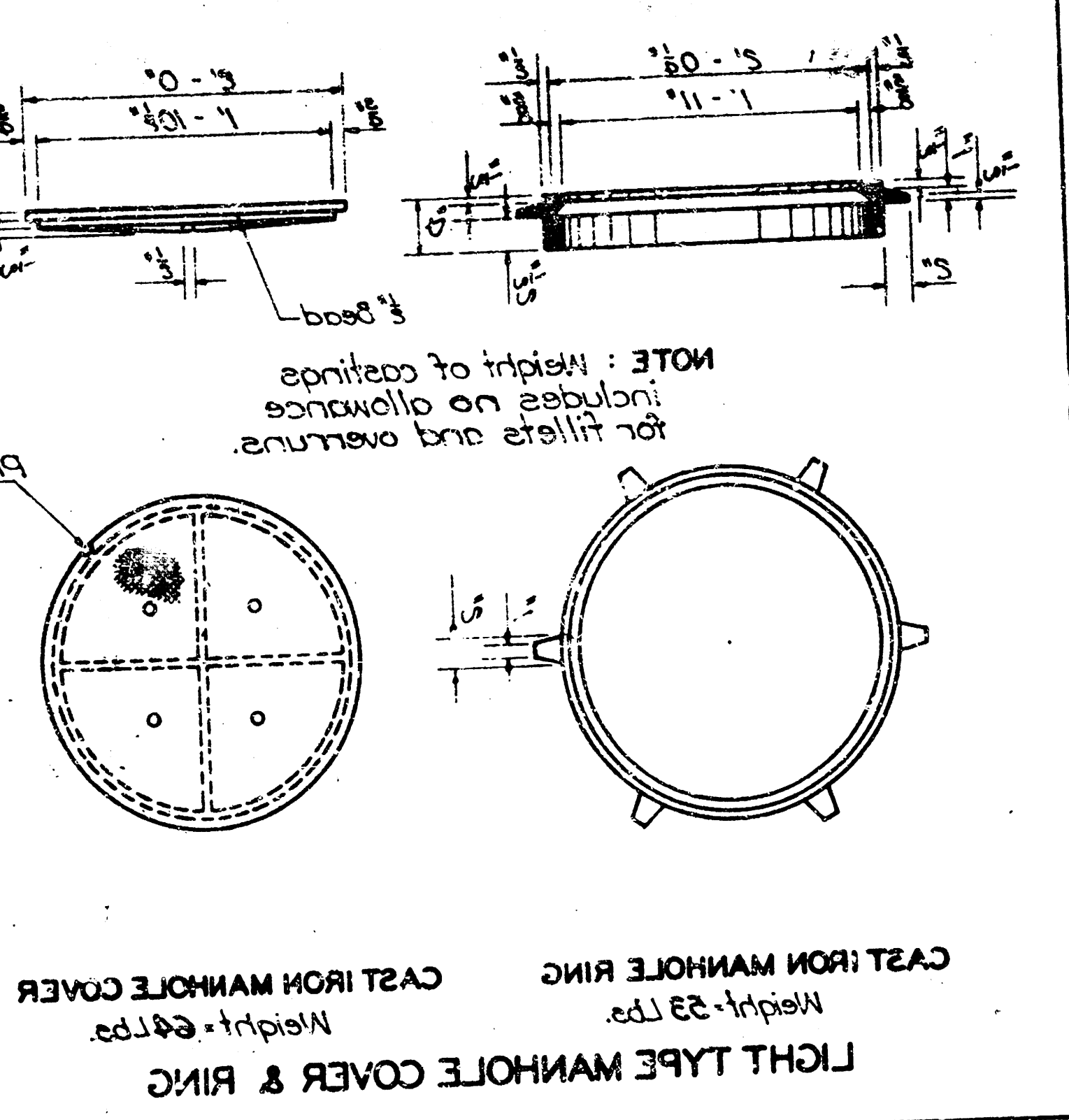
FLOOR PLAN (EXAMPLE I)



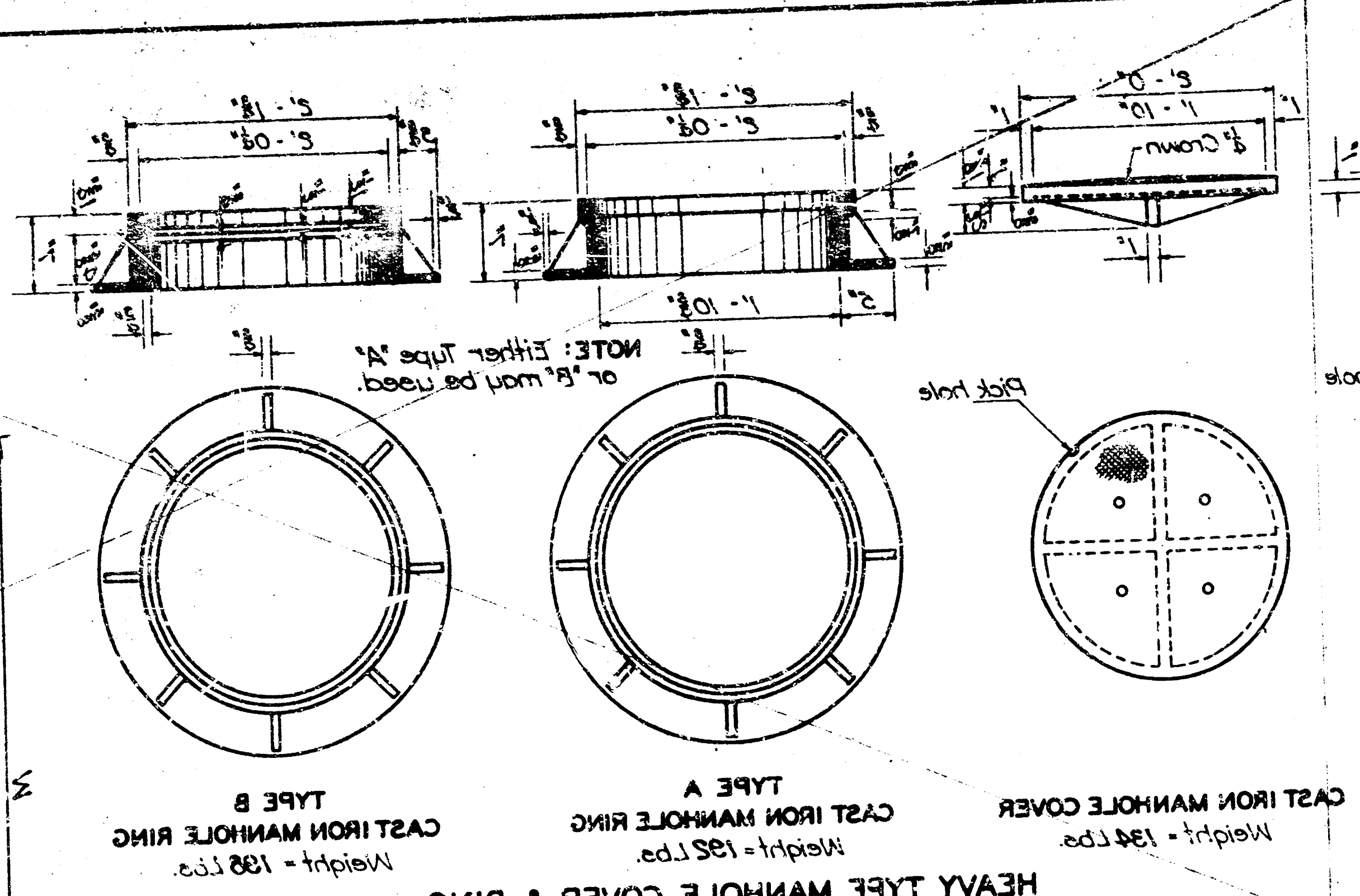
SECTION A-A (EXAMPLE I)



SECTION B-B (EXAMPLE I)

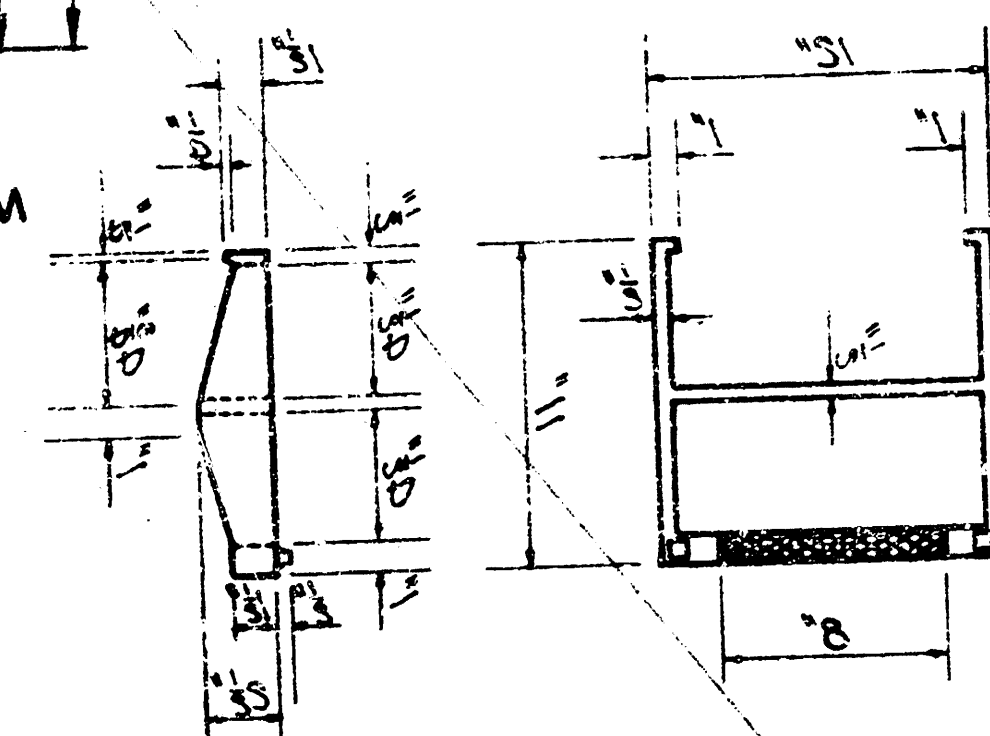


LIGHT TYPE MANHOLE COVER & RING
Weight - 23 lbs.
Cast Iron Manhole Ring
Weight - 48 lbs.
Cast Iron Manhole Cover
Weight - 134 lbs.

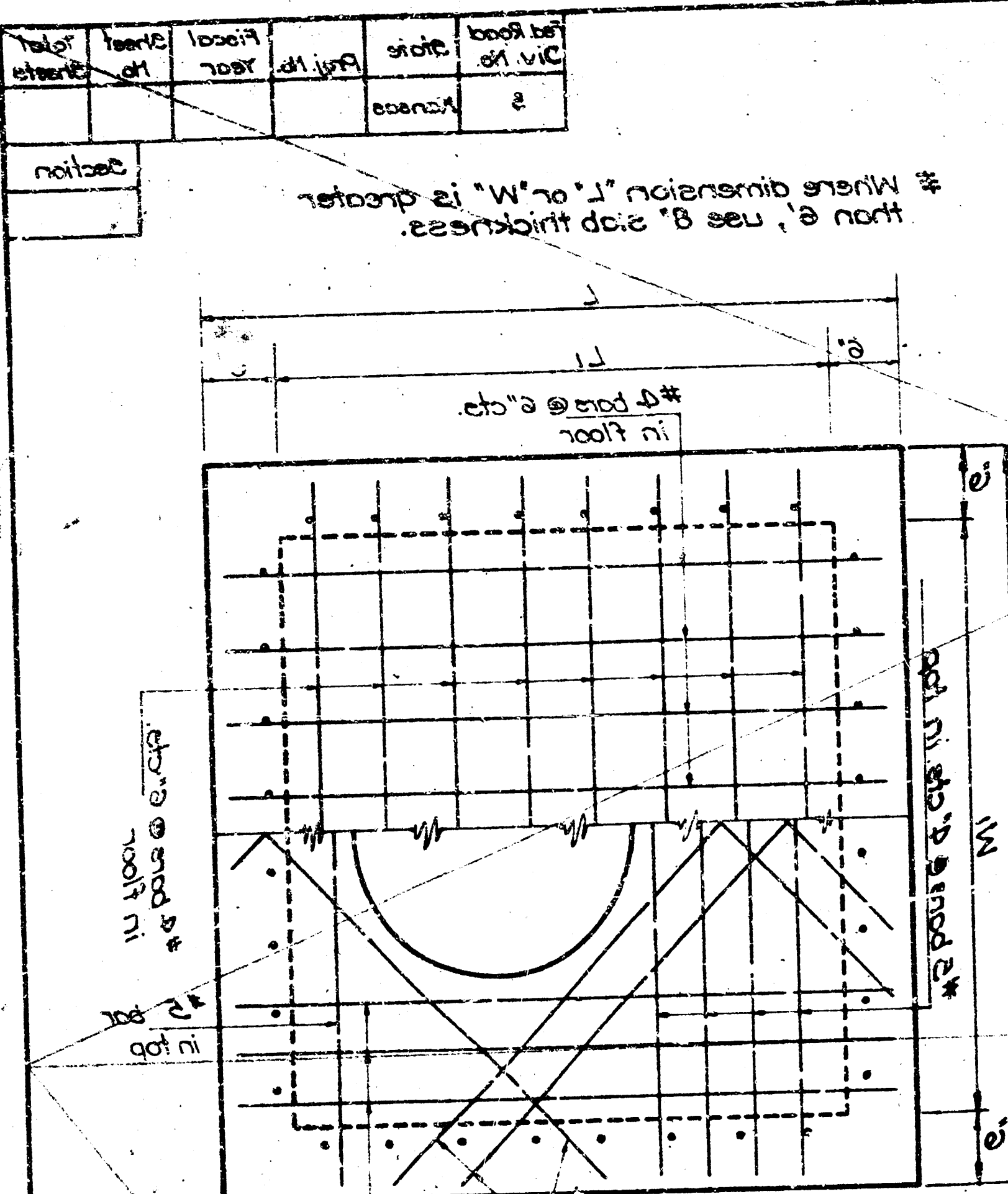


HEAVY TYPE MANHOLE COVER & RING
Weight - 128 lbs.
Cast Iron Manhole Ring
Weight - 128 lbs.
Cast Iron Manhole Cover
Weight - 134 lbs.

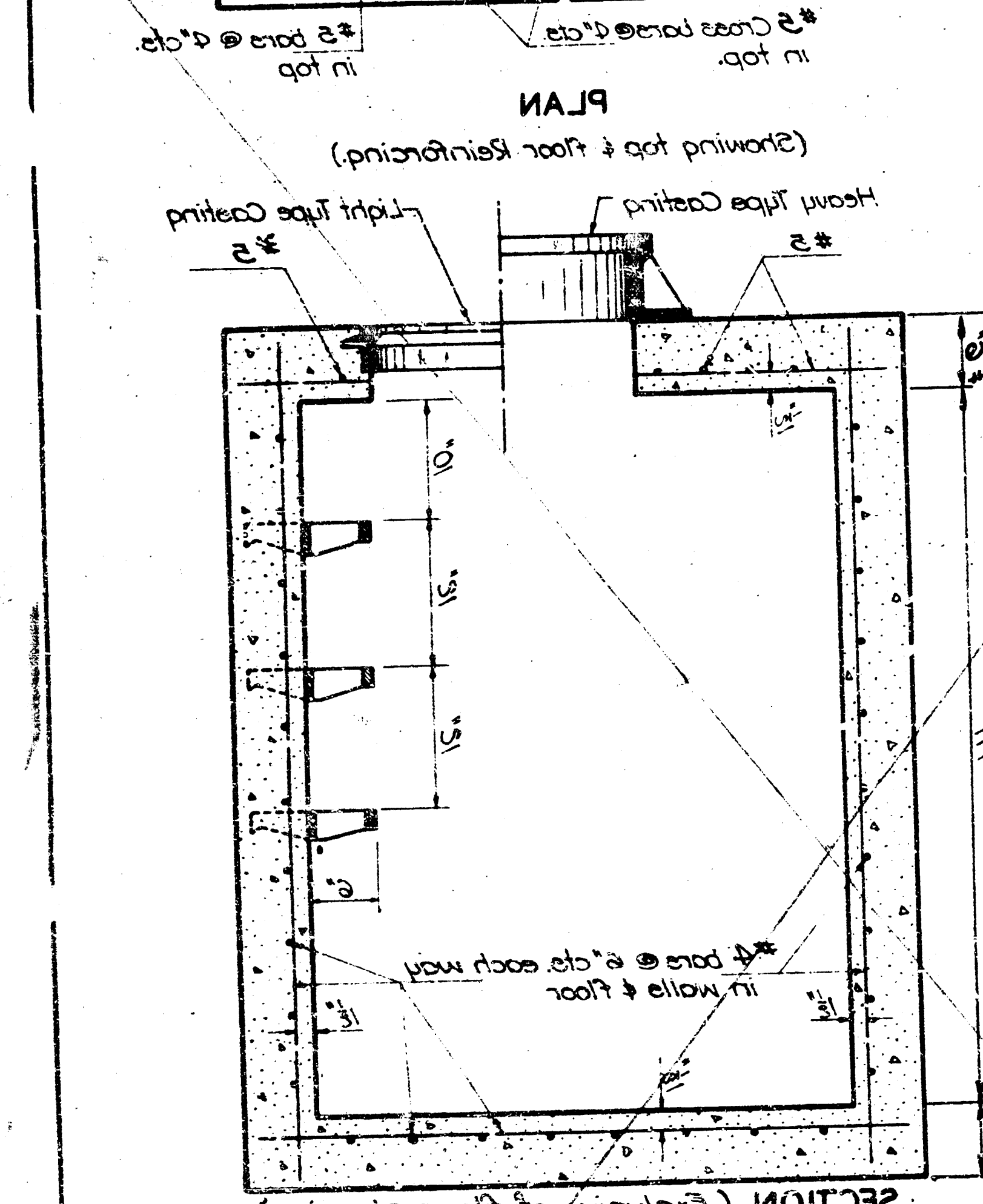
NOTE: Class A concrete to be used throughout, level all exposed edges with a 1/2" round nosing. At the contractor's option Class A concrete may be used throughout, but reinforcement shall be made in Class A concrete. In general, pipes will enter and leave the manhole at various positions. Where possible, bend pipes around pipes. Floor of manhole to be shown as shown in various examples. Manhole opening and steps where used shall be placed at 45° and 90° angles to top of manhole. Access to top of manhole shall be provided by a 1/2" round nosing. All castings shall be cast iron and shall comply with ASTM A-153, Class 25. All exposed cast iron surfaces (rings & covers) not subject to traffic, shall be painted either in the shop or in the field with one coat of zinc dust paint or followed by two field coats of aluminum paint. No deductions in concrete quantities shall be made for pipe openings. No additions in concrete quantities shall be made for draining floor or manholes. Manholes ordered by the engineer, the top of the manhole shall be placed slightly to approximately fit the ground line or other conditions.



CAST IRON STEP
Weight - 14 lbs.
Scale - 1/4" = 1'
NOTE: Steps not to be used where it is less than 6 feet.



PLAN



SECTION (Exclusive of floor shading)

NOTE: Contractor has the option of using pre-cast manholes, as approved by the engineer (see spec. for provision). Payment of quantities shall be on a cut in place basis.

NO.	DATE	REVISIONS
1	12-1-57	1. 1/2" round nosing pre-cast manhole cover.
2	12-1-57	2. 1/2" round nosing pre-cast manhole cover.
3	12-1-57	3. 1/2" round nosing pre-cast manhole cover.

DESIGNED BY: J. H. B. DATE: 12-1-57
CHECKED BY: J. H. B. DATE: 12-1-57
STATE HIGHWAY COMMISSION OF KANSAS
REINFORCED
CONCRETE MANHOLE
STD NO. 633
Scale: 1/4" = 1'
Note: Steps not to be used where it is less than 6 feet.