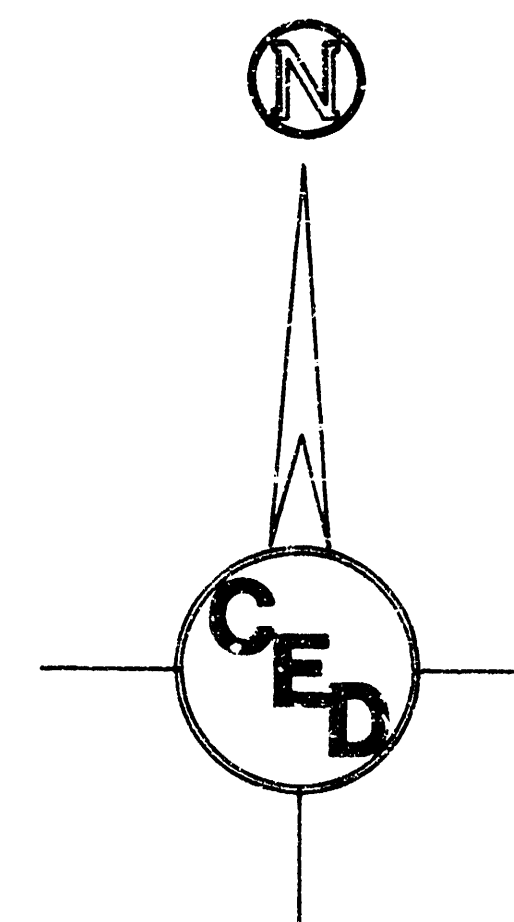


STORM SEWER IMPROVEMENTS FOR CASEY'S GENERAL STORE IN LOT 8, BLOCK 1, SOUTH SENECA GARDENS FOURTH ADDITION WICHITA, SEDGWICK COUNTY, KANSAS

CITY OF WICHITA PRIVATE PROJECT NO. 609 PPS(607861)

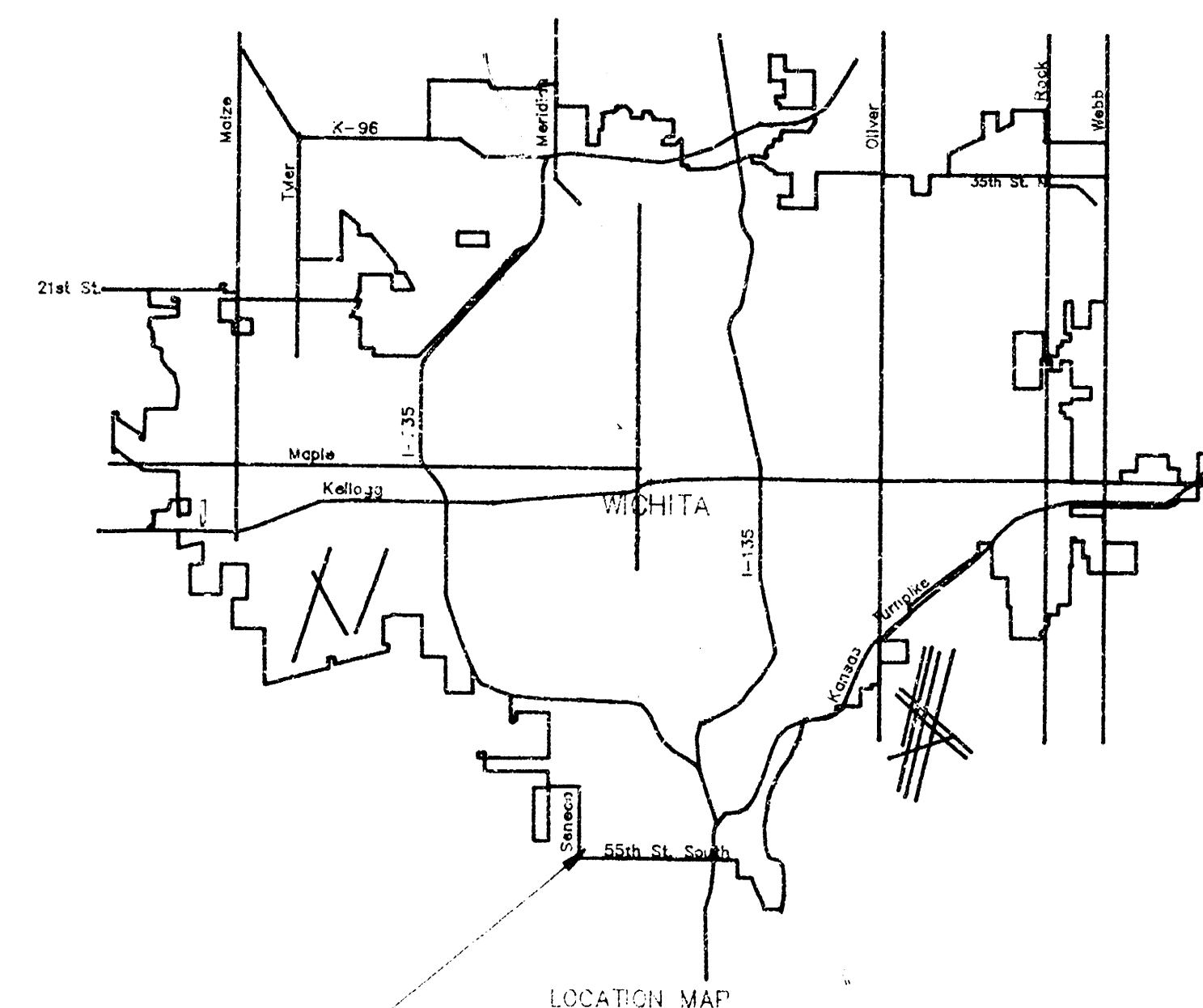
MIKE LINDEBAK, P.E., CITY ENGINEER

JANUARY, 1996



1" = 100'

BOOKED
12-14-00
MCG
D-491

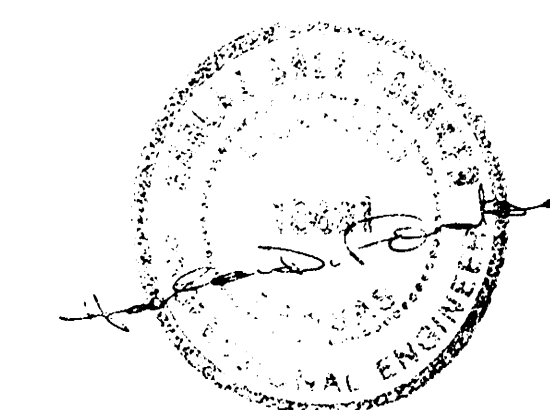


Project Location

INDEX OF SHEETS

1. Title Sheet
2. Plan-Profile Sheet
3. Curb Inlet Detail
4. Manhole Detail

PROJECT LOCATED IN
SOUTH SENECA GARDENS FOURTH ADDITION BUSINESS PARK



1-25-76
As. Burd 2-11-97
Helen O. Jackson

APPROVED AS NOTED
By CITY ENGINEER OF WICHITA

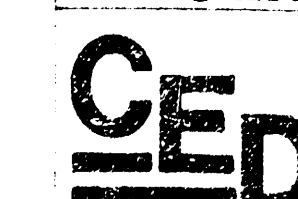
Sanitary Sewers _____
Storm Sewers V.L.H. 1/15/96
Driveway Approaches _____
Water Mains _____
Paving _____

NOTE TO CONTRACTOR

INSPECTION AND TESTING FOR THIS PROJECT IS TO BE PROVIDED BY A LICENSED CONSULTING ENGINEERING FIRM UNDER CONTRACT WITH THE OWNER/DEVELOPER. SAID INSPECTION TO BE IN ACCORDANCE WITH THE CITY OF WICHITA STANDARD CONSTRUCTION ENGINEERING PRACTICES AND CERTIFIED BY A LICENSED PROFESSIONAL ENGINEER. NO WORK SHALL BE PERFORMED IN DEDICATED EASEMENTS OR THE PUBLIC RIGHT-OF-WAY BY THE CONTRACTOR WITHOUT SUCH INSPECTION NOR SHALL ANY WORK BE COMMENCED IN DEDICATED EASEMENTS OR PUBLIC RIGHT-OF-WAY WITHOUT WRITTEN AUTHORIZATION BY THE CITY ENGINEER.

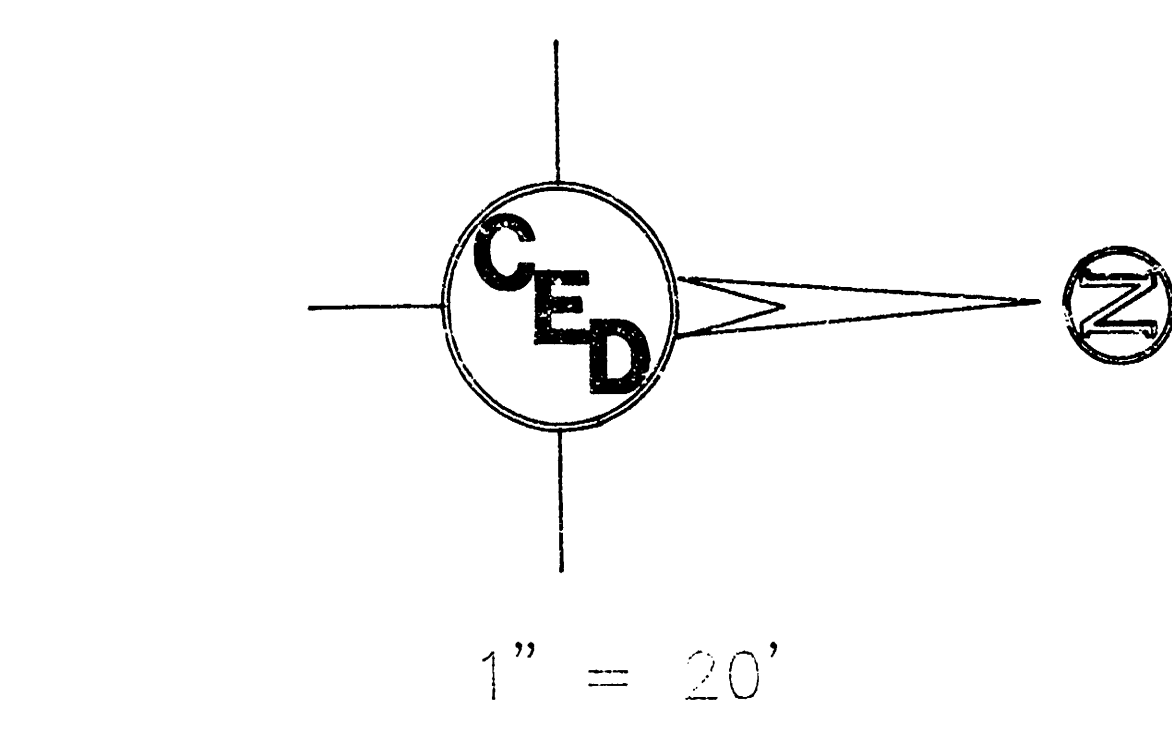
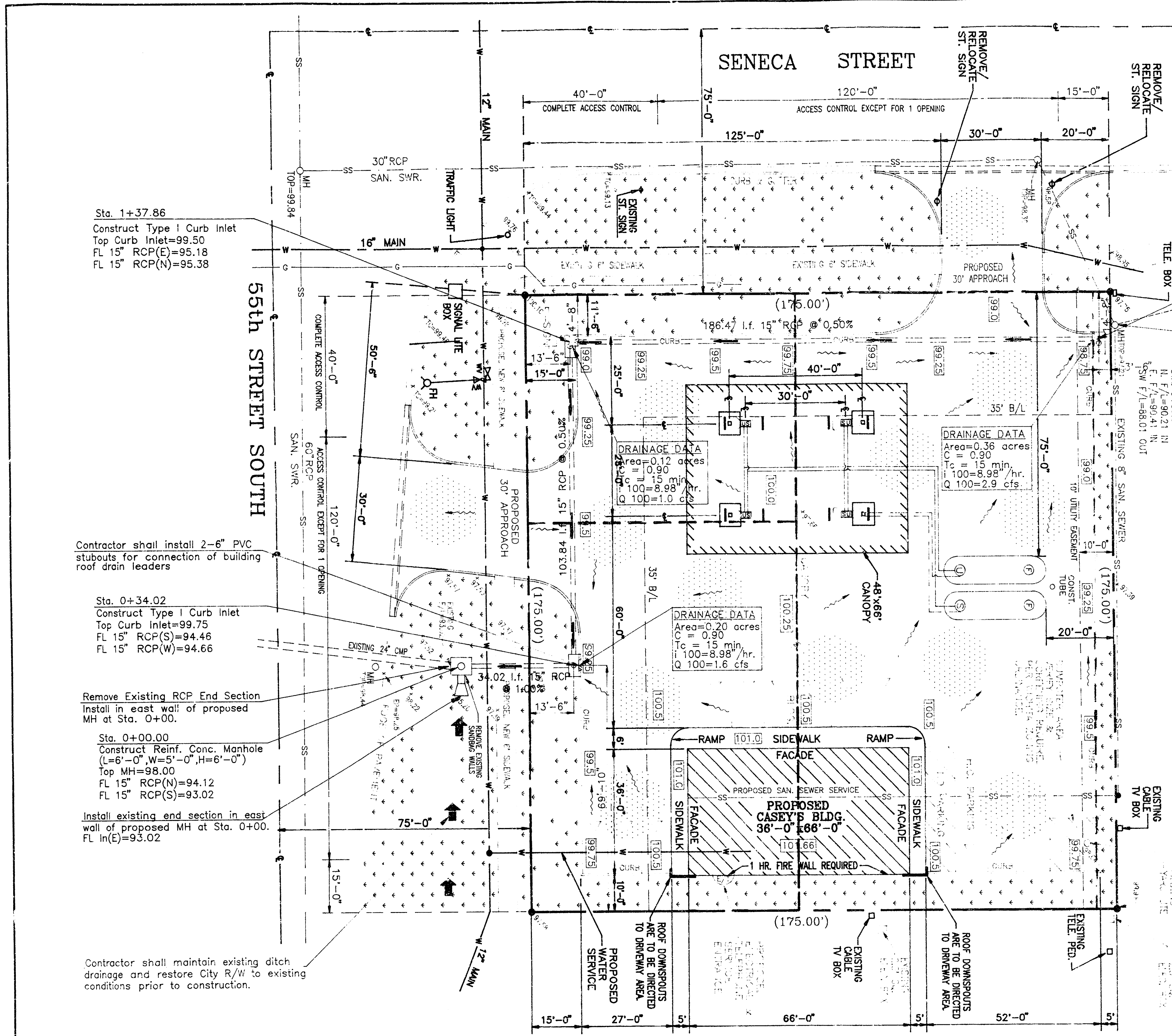
COW PRIV. PROJ. NO. 609 PPS(607861)

CERTIFIED ENGINEERING DESIGN



226 NORTH OHIO
WICHITA, KANSAS 67214
(316) 262-8808

SHEET 1
TOTAL



UTILITIES SHOWN REPRESENT THE BEST INFORMATION AVAILABLE FOR DESIGN. ADDITIONAL UTILITIES MAY BE PRESENT ON THIS PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE EXACT LOCATION, DEPTH AND SIZE OF ALL UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL BE LIABLE FOR ANY DAMAGE CAUSED BY THE FAILURE TO DO SO.

GENERAL NOTES

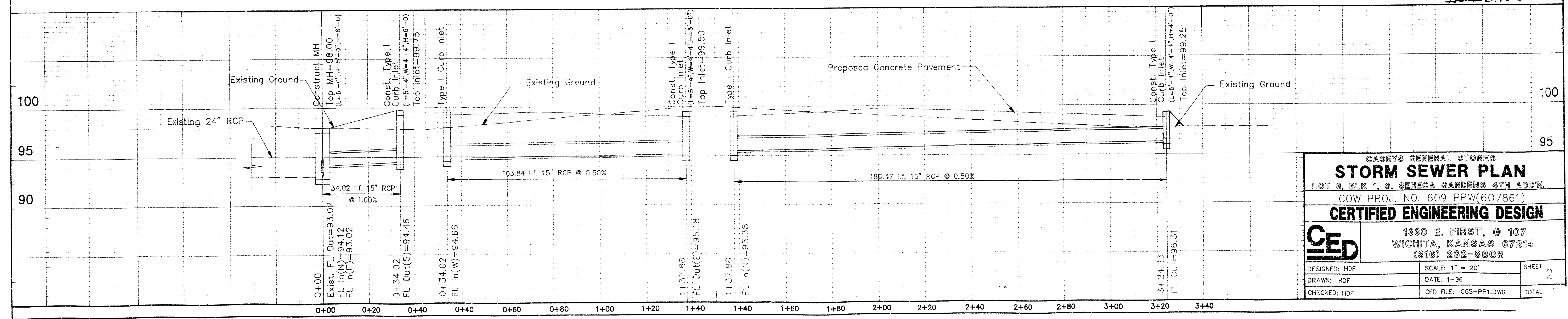
- The Contractor shall provide a minimum advance notice of 48 hours to utility companies prior to starting construction as follows:
KANSAS ONE CALL 1-800-344-7233 or 687-2470 (LOCAL WICHITA)
The Contractor must notify the following in the event of an emergency:
Southwestern Bell Telephone 1-571-2115
Kansas Gas Service Company 262-0661
Kansas Gas & Electric 263-7511
Arkla Gas Company 264-1141
Multimedia Cablevision 262-0661
City of Wichita Water & Sewer 268-4908
- Pavement grades shown are to the top of pavement.
- Existing elevations were provided by others. Contractor shall verify existing grades and notify Engineer of any discrepancies. Elevations are based on City Datum.
- Contractor shall be responsible for establishing and protecting Benchmark throughout construction.
- Contractor shall strip site of topsoil (6" min.) and stockpile this material to be used in grassed areas.
- Compaction of fill material and subgrade stabilization shall comply with Geotechnical Engineering Report.
- The Contractor shall not start work on the project until the project inspector assigned to the project is present on the site. The project inspector is Certified Engineering Design, 235 N. Ohio, Wichita, KS, (316)262-8808. All work done without inspection will be required to be uncovered for inspection. The contractor shall notify the inspector for the project 48 hours prior to beginning construction.
- The Contractor shall restore City right-of-way to conditions which existed prior to the commencement of work shown on this plan.

LEGEND:

SS	SS	SANITARY SEWER	W	WATER VALVE
G	G	GAS LINE	F	FIRE HYDRANT
W	W	WATER LINE	P	PROPERTY PIN
PL	PL	PROPERTY LINE	S	STREET SIGN
C	C	CENTER LINE	SM	SAN. SEWER MANHOLE

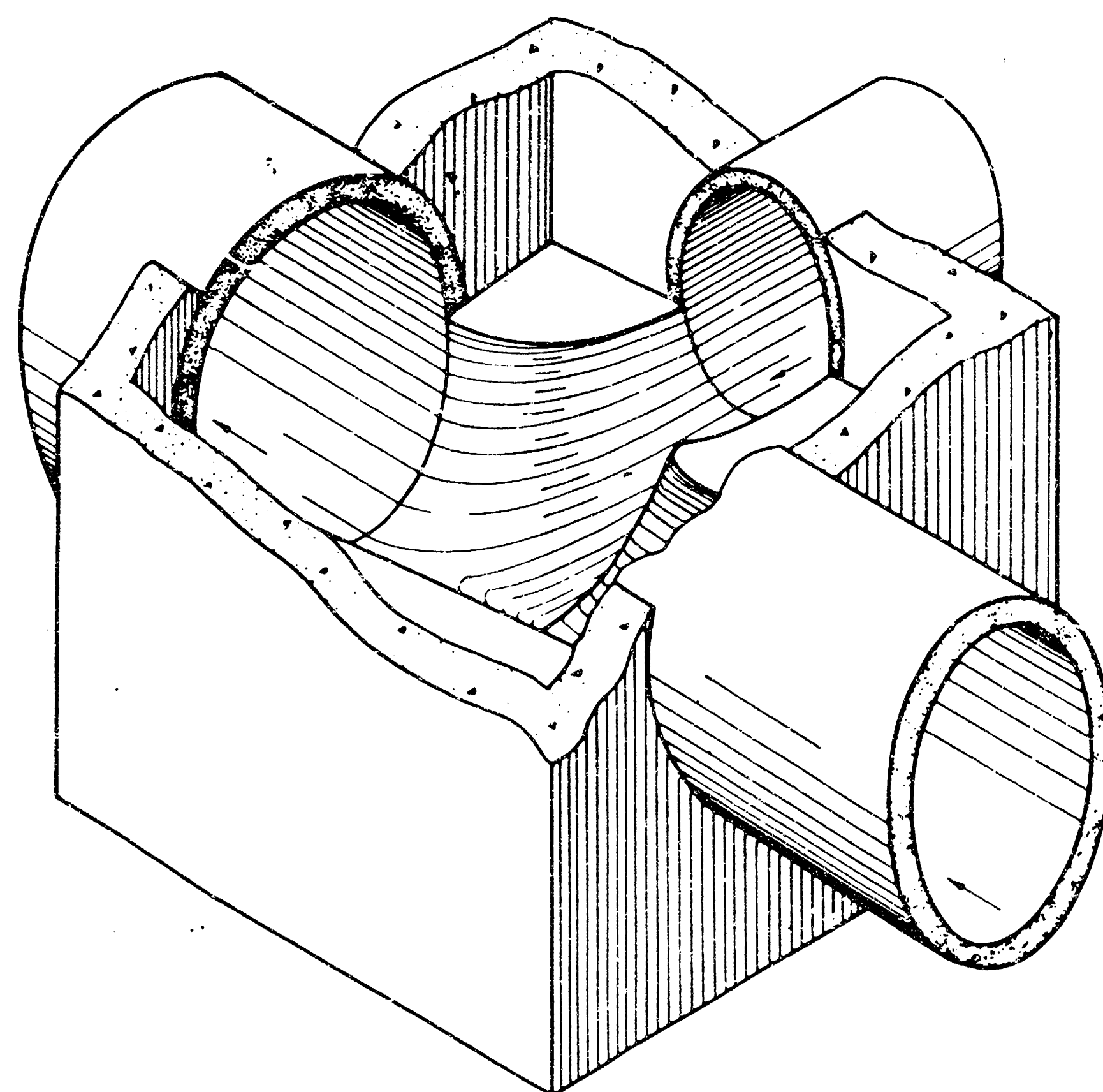
Parking Summary

Total Parking: 12
(1 H.C. Stall)

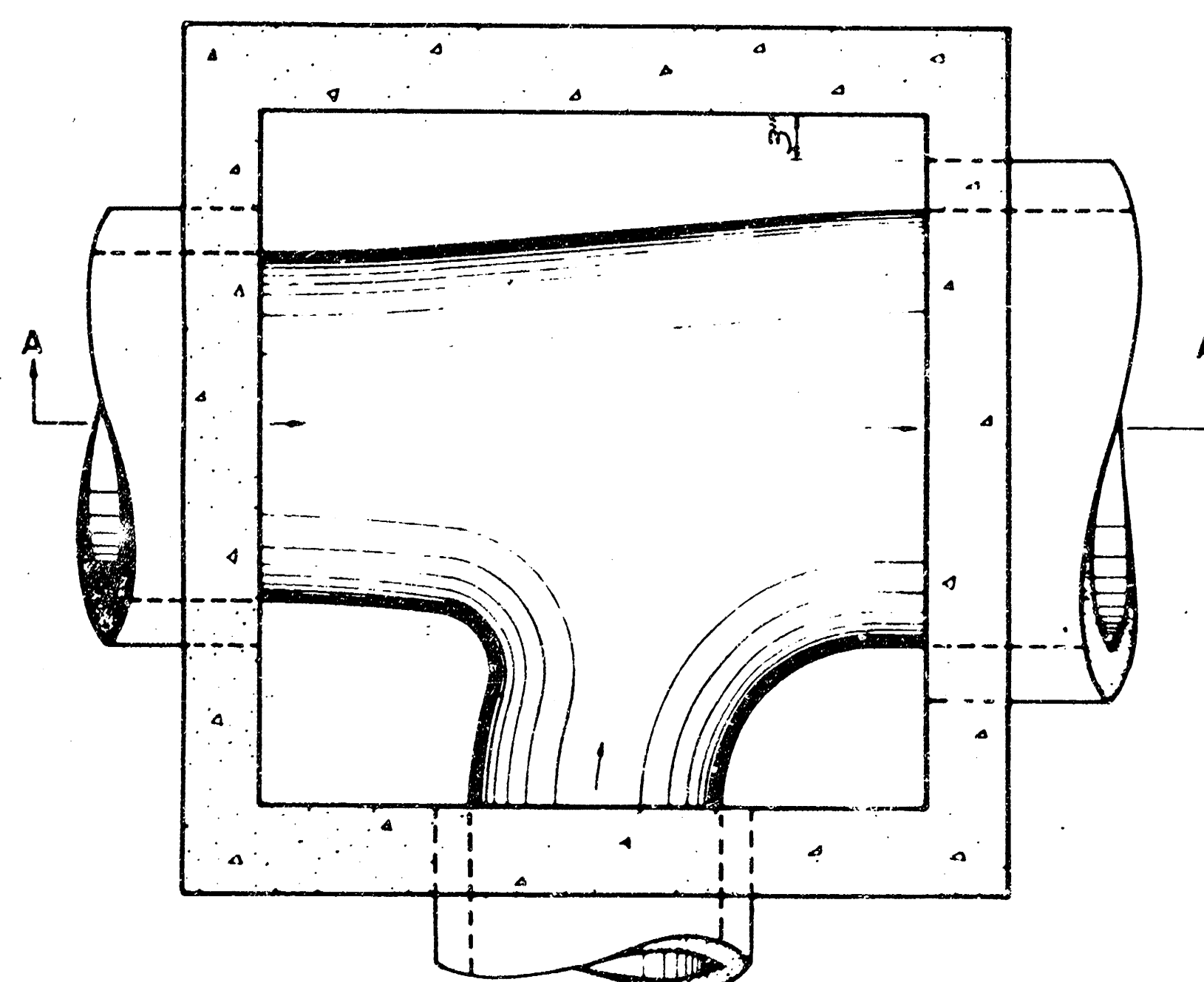


CASEY'S GENERAL STORES
STORM SEWER PLAN
LOT 2, BLK 1, S. SENECA GARDENS 4TH ADDN.
COW PROJ. NO. 609 PPW(607861)
CERTIFIED ENGINEERING DESIGN
CED 1330 E. FIRST, # 107
WICHITA, KANSAS 67214
(316) 262-8808
DESIGNED: HOF SCALE: 1" = 20' SHEET 2
DRAWN: HOF DATE: 1-96
CHECKED: HOF CED FILE: CGS-PP1.DWG TOTAL

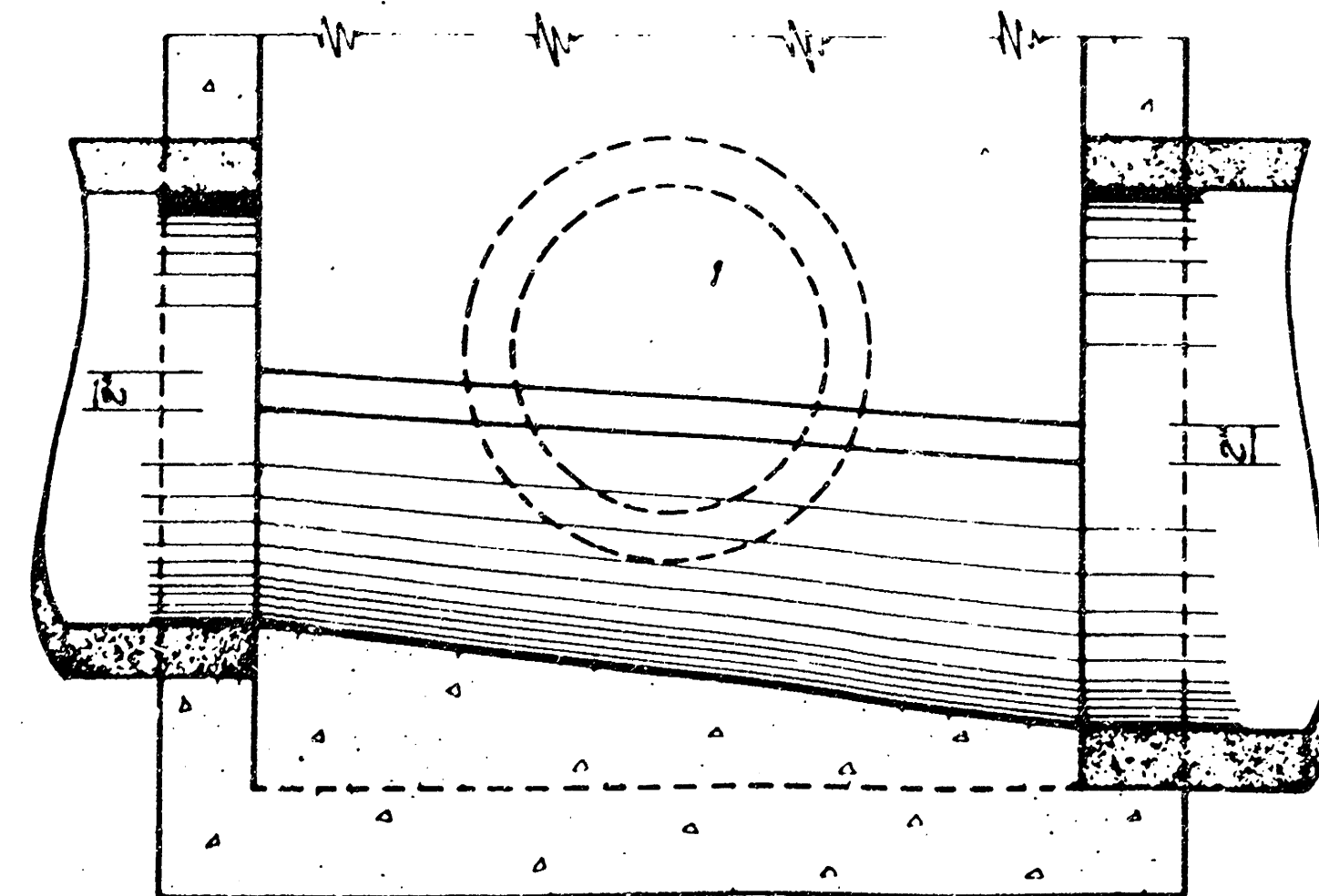
JUNE 1984



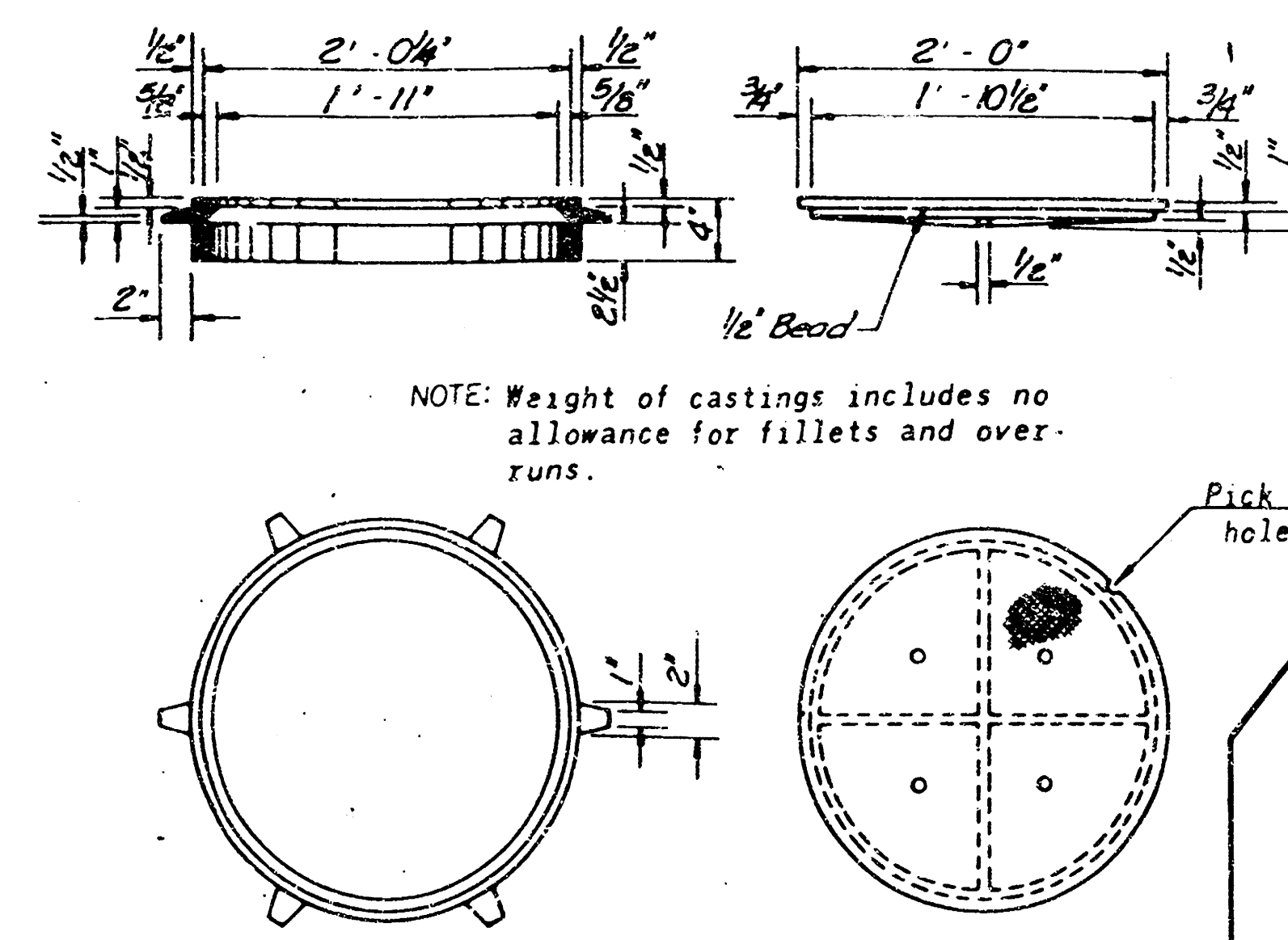
SECTIONAL VIEW (EXAMPLE IV)
Showing Floor Shaping



FLOOR PLAN (EXAMPLE IV)



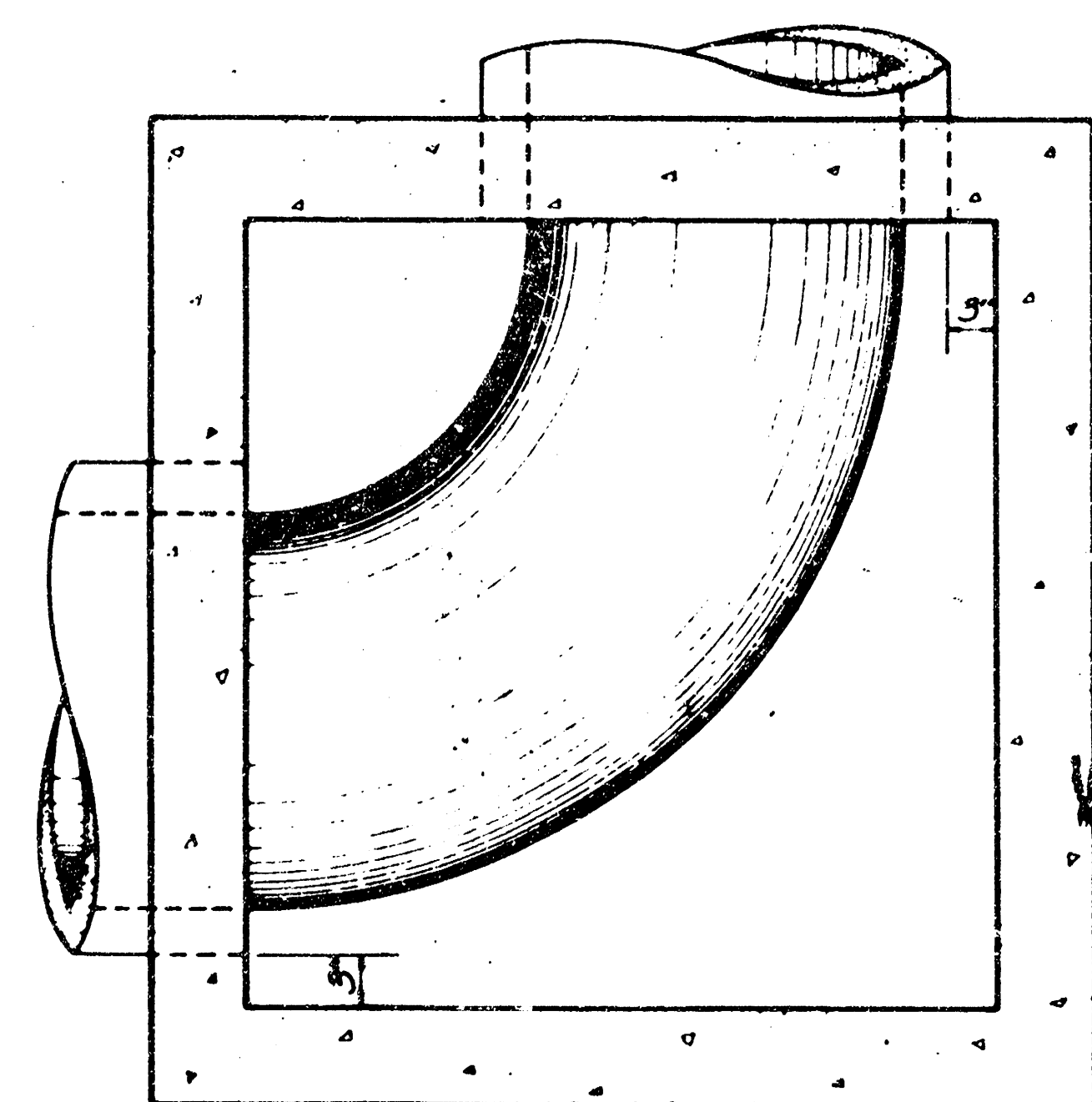
SECTION A-A (EXAMPLE IV)



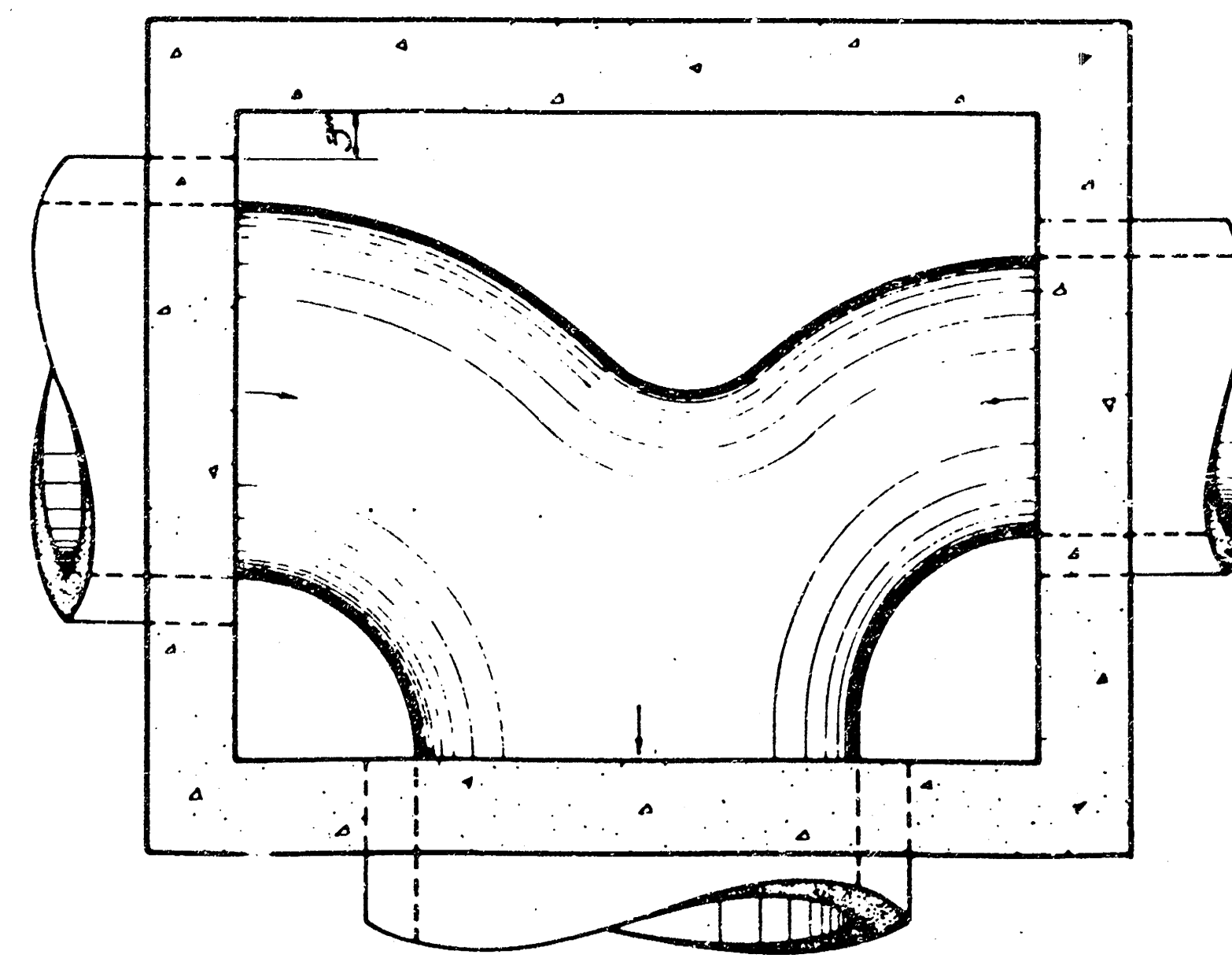
TYPE C
CAST IRON MANHOLE RING Weight=53 lbs
CAST IRON MANHOLE COVER Weight=64 lbs.
LIGHT TYPE MANHOLE COVER & RING

TYPICAL EXAMPLES OF VARIOUS PIPE COMBINATIONS

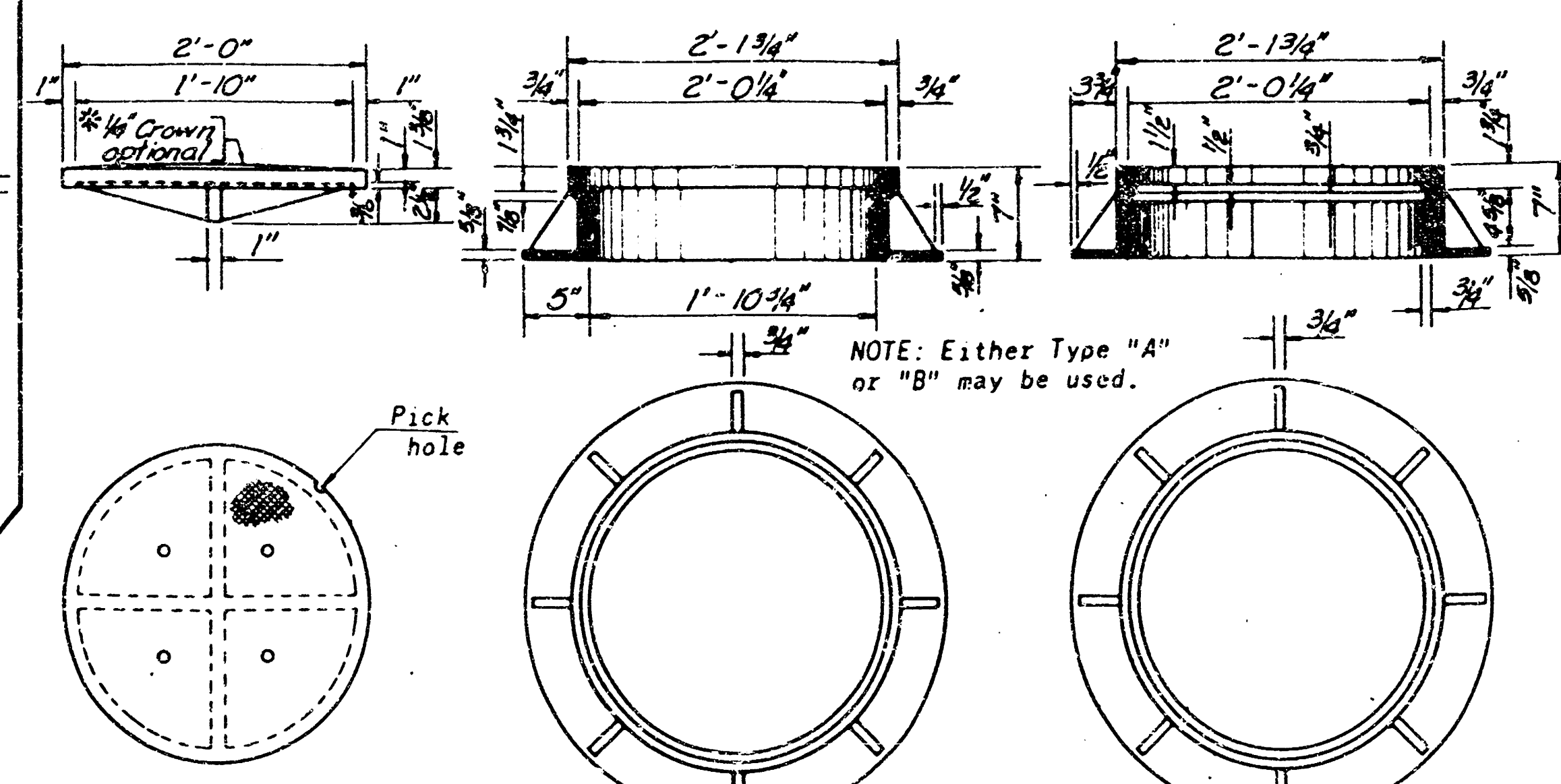
Showing method of shaping floor of manholes to provide increased hydraulic efficiency.
For reinforcing & other features see "PLAN" and "SECTION"



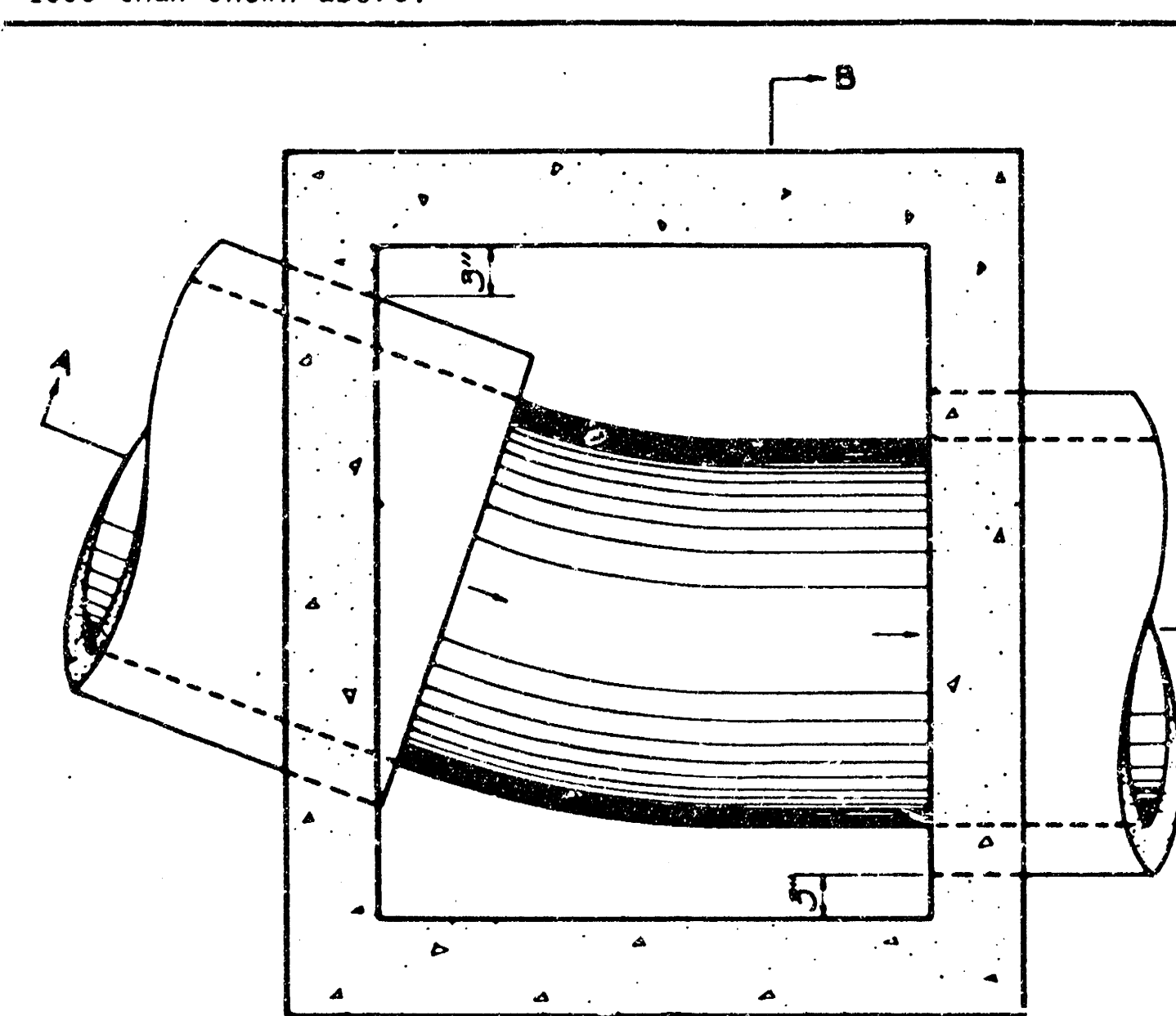
FLOOR PLAN (EXAMPLE II)



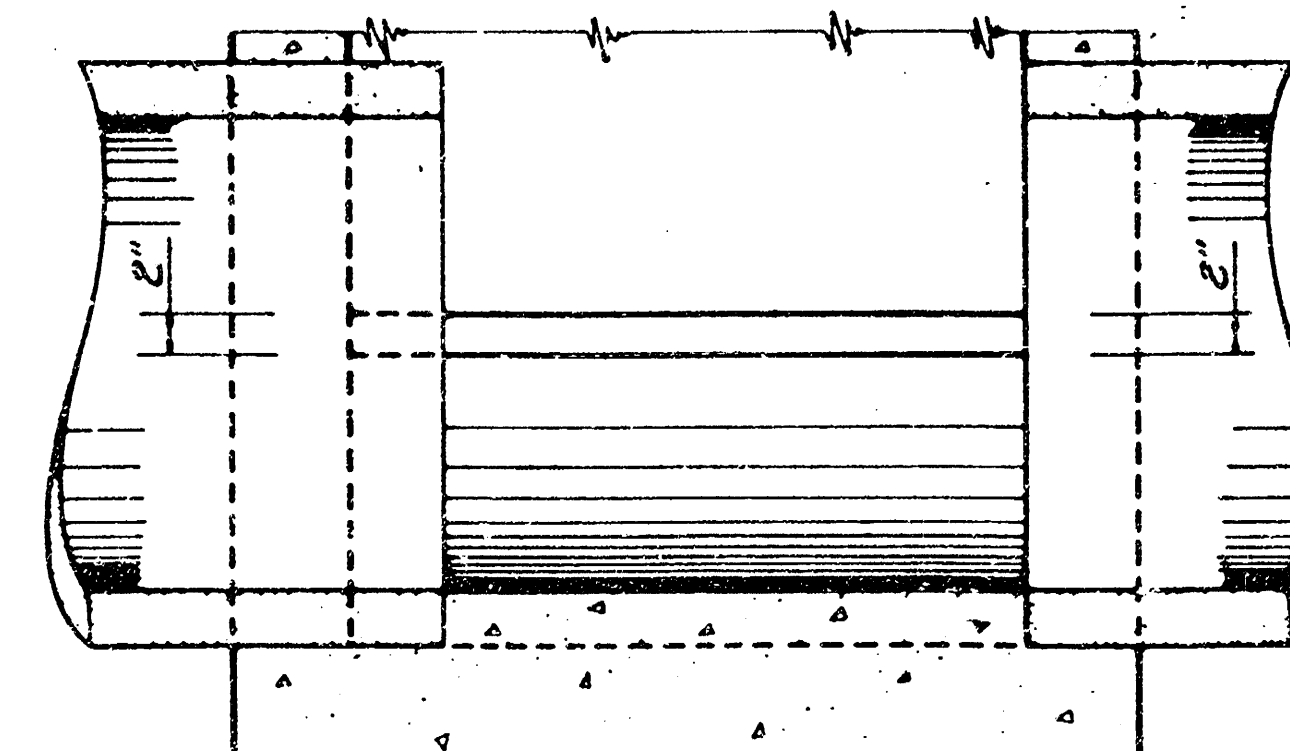
FLOOR PLAN (EXAMPLE III)



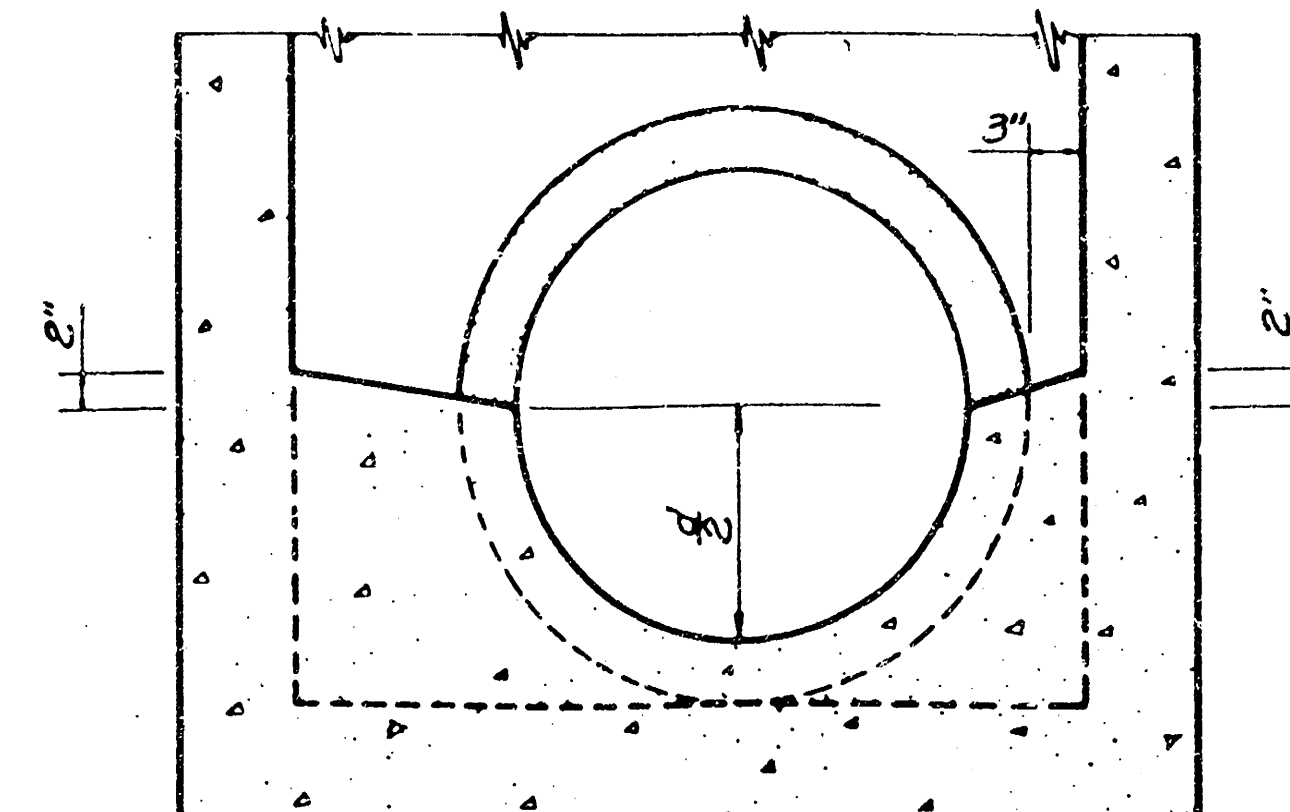
TYPE A & B
CAST IRON MANHOLE COVER Weight=134 lbs.
TYPE A
CAST IRON MANHOLE RING Weight=192 lbs.
TYPE B
CAST IRON MANHOLE RING Weight=198 lbs.
HEAVY TYPE MANHOLE COVER & RING



FLOOR PLAN (EXAMPLE I)



SECTION A-A (EXAMPLE I)



SECTION B-B (EXAMPLE I)

NOTE: Use class A Concrete throughout. All exposed edges shall be finished with an edging tool.

At the contractor's option, Class A Concrete (AE) or mix used in Conc. Pvt. may be used throughout.

In general, pipes will enter and leave the manhole at various positions. Where possible bend bars around pipes.

Floor of manhole to be shaped as shown in various "EXAMPLES" with unreinforced Class "A" concrete. Manhole opening and steps, where used, shall be placed to afford easy access to top of shaped invert. Top reinforcing bars to be adjusted accordingly.

All castings shall be gray iron and shall comply with the Standard Specifications.

All exposed cast iron surfaces (rings & covers) not subjected to traffic, shall be painted either in the shop or in the field with one coat of a zinc dust paint, followed by two field coats of aluminum paint.

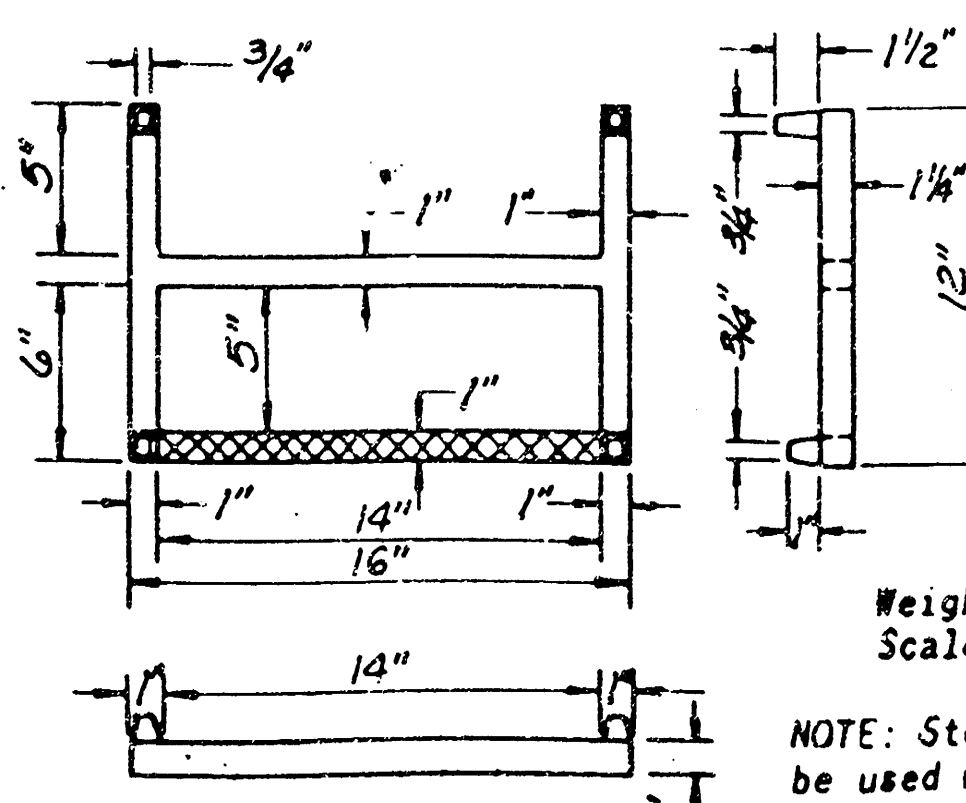
No deductions in concrete quantities shall be made for pipe openings.

No additions in concrete quantities shall be made for shaping floor of manholes.

When so ordered by the Engineer, the top of the manhole shall be sloped slightly to approximately fit the ground line or other conditions.

Dimensions and weights of cast iron as shown on this sheet are minimum. Larger dimensions and/or heavier weights of cast iron may be used.

NOTE: Contractor has the option of using precast manholes, as approved by the Engineer (See Special Provision). Payment of quantities shall be on a cast-in-place basis.



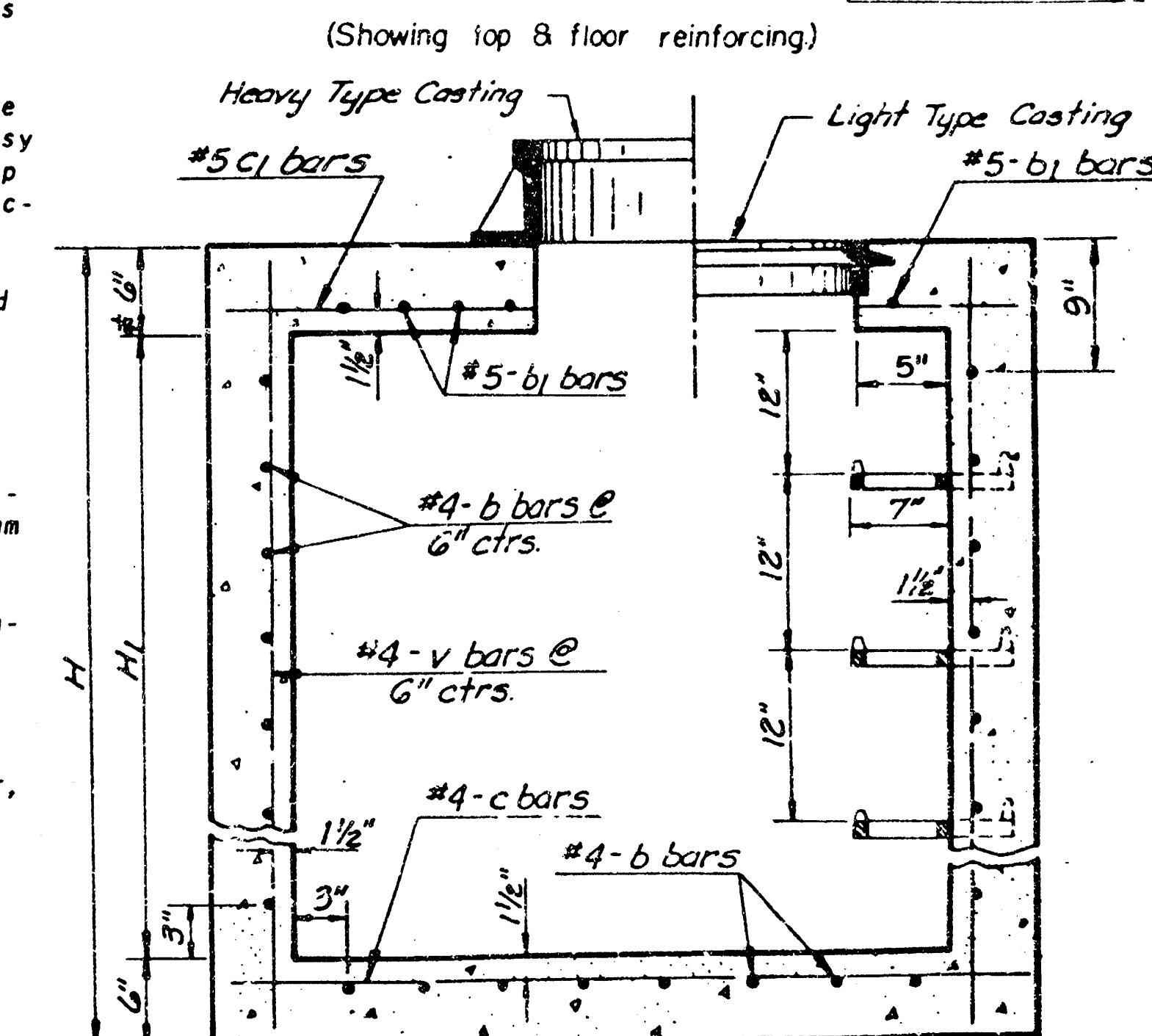
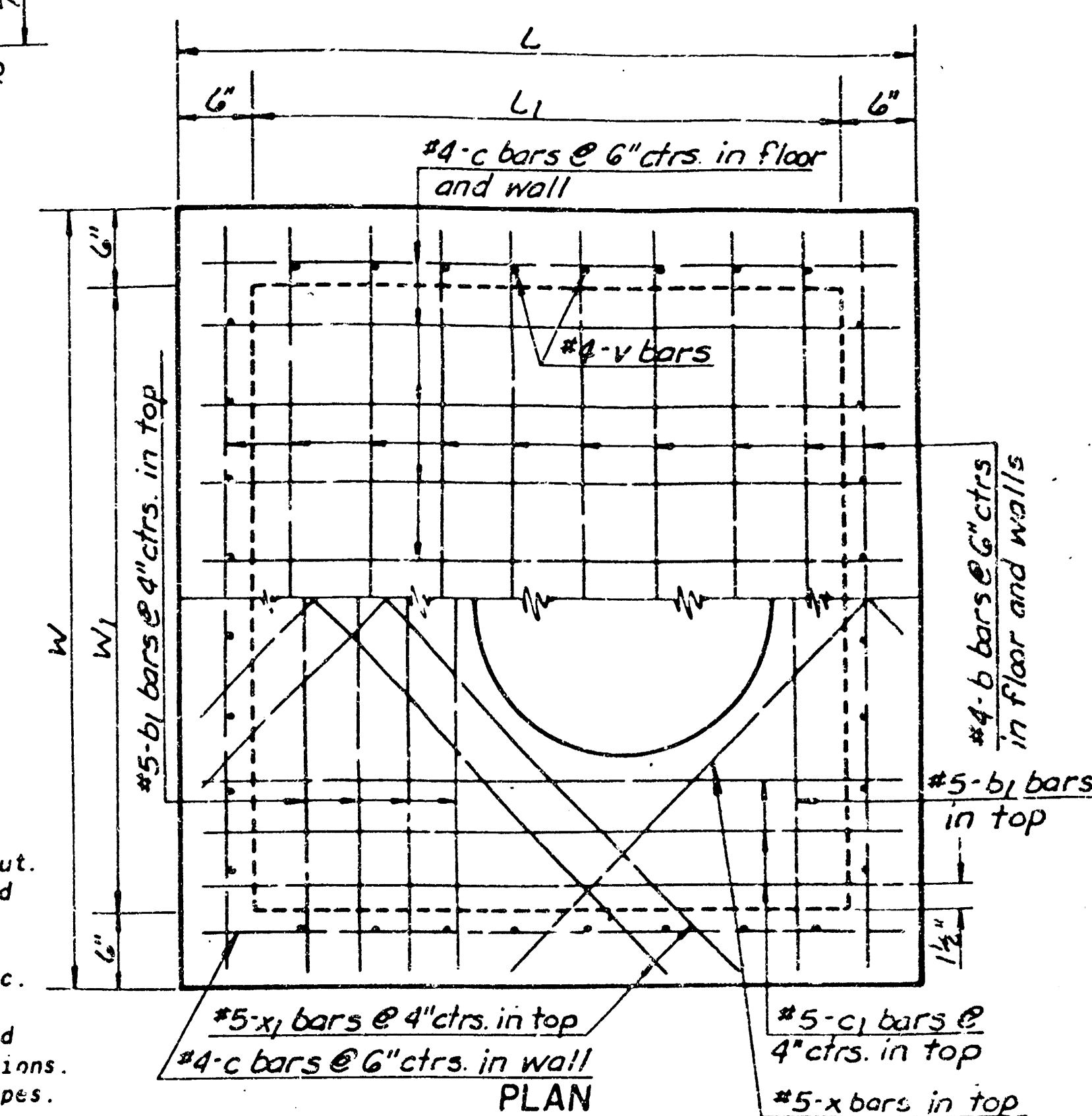
CAST IRON STEP

Weight: 18 lbs.
Scale: 1 1/2" = 1'

NOTE: Steps not to be used where "H" is less than 6 feet.

FHWA REGION NO.	STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
7	KANSAS		19	4	4

Where dimension "L" or "W" is greater than 6', use 8" slab thickness.



SECTION (Exclusive of floor shaping)

As an alternate to the cast iron step shown, either an aluminum or a plastic coated steel step complying with the same minimum clear opening dimensions may be used. The minimum length of rung shall be 14 inches and the minimum distance of rung from wall shall be 6 inches. The solid aluminum extruded bar (1/4" minimum) shall comply with the Standard Specifications (ASTM B 221 Alloy 6005-T5). The plastic coated step shall be made from a No. 3 steel reinforcing bar encapsulated in plastic to provide a minimum cross section of 1 inch by 1 inch and shall comply with the special provision. The rung shall be designed so the foot cannot slide off the end.

NO.	DATE	REVISIONS	BY	APP'D
26	9-28-82	Rev step from 16" to 14" clear opening	WLR	L.R.P.
25	8-14-80	Revised to Standard Specs.	WLR	L.R.P.
24	4-2-80	Labeled bars same as steel table	WLR	L.R.P.

KANSAS DEPARTMENT OF TRANSPORTATION

REINFORCED CONCRETE MANHOLE

STD. NO. 633 4-5-44

SHEET NO.	OF	SCALE	1" = 1'	APP'D	DATE	TRACED	WLR
DESIGNED	WLR	DETAILS	WLR	QUAN.	OK	WLR	L.R.P.