

THE CONTRACTOR SHALL BE RESPONSIBLE FOR PRESERVING PROPERTY ITEMS. THE CONTRACTOR SHALL BE OBLIGATED TO REPAIRING ANY PROPERTY LOSS WHICH IS LOST OR DESTROYED BY HIS CONSTRUCTION OPERATIONS. SUCH LOSS SHALL BE REESTABLISHED BY A LICENSED LAND SURVEYOR OR A LICENSED PROFESSIONAL ENGINEER IN ACCORDANCE WITH STATE LAWS.

NOTE TO CONTRACTOR

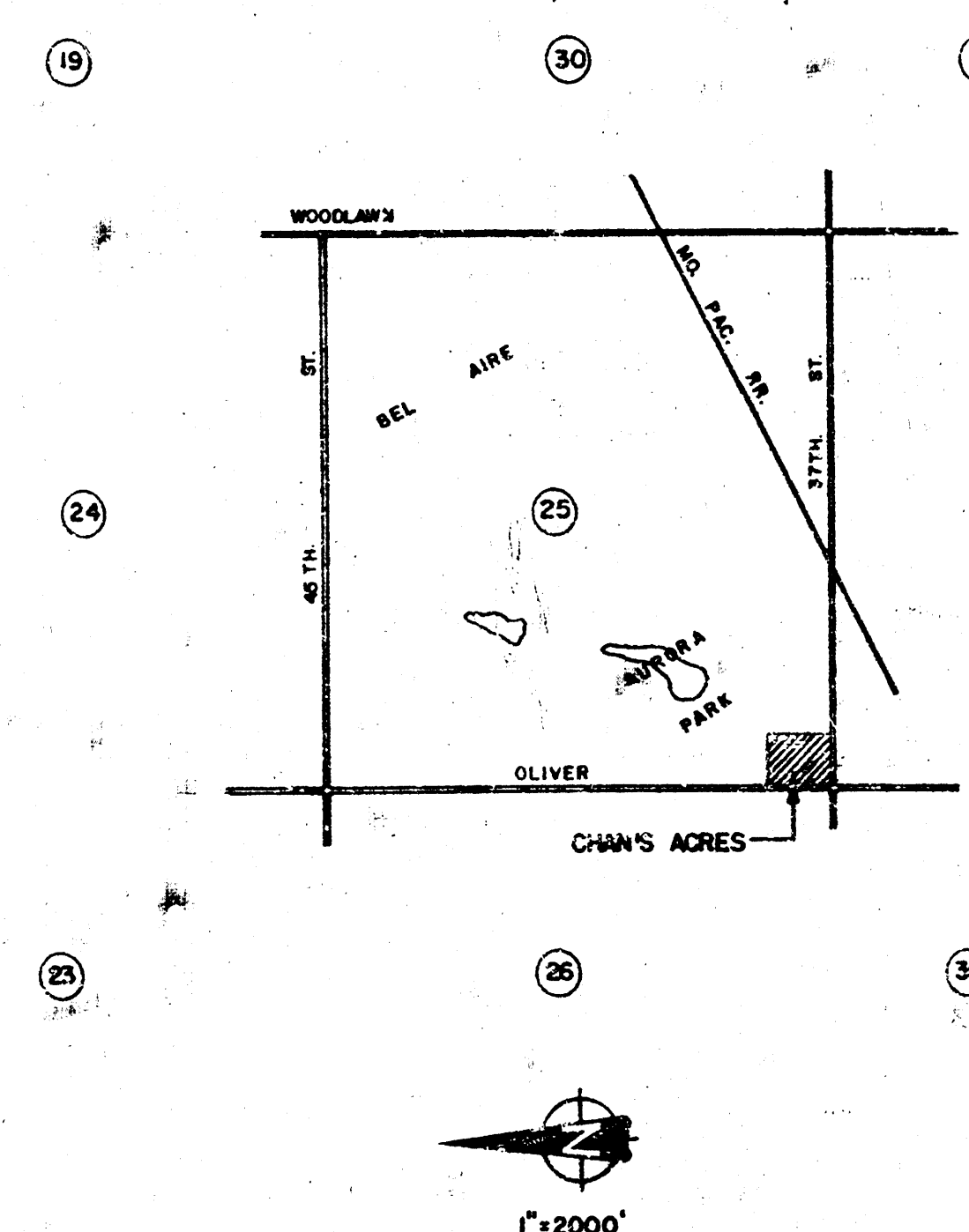
This project will be constructed under the supervision of the CITY ENGINEER and conforming to the SPECIFICATIONS of the CITY OF WICHITA. The CONTRACTOR will pay the City of Wichita for all costs of Inspection.

CITY OF WICHITA

APPROVAL: Approval does not relieve the signatory from any responsibility for errors or omissions from this contract requirement or for any incidents involving equipment, work, or materials.

Date: 11/16/82

Engineering Div. Y. Wilson



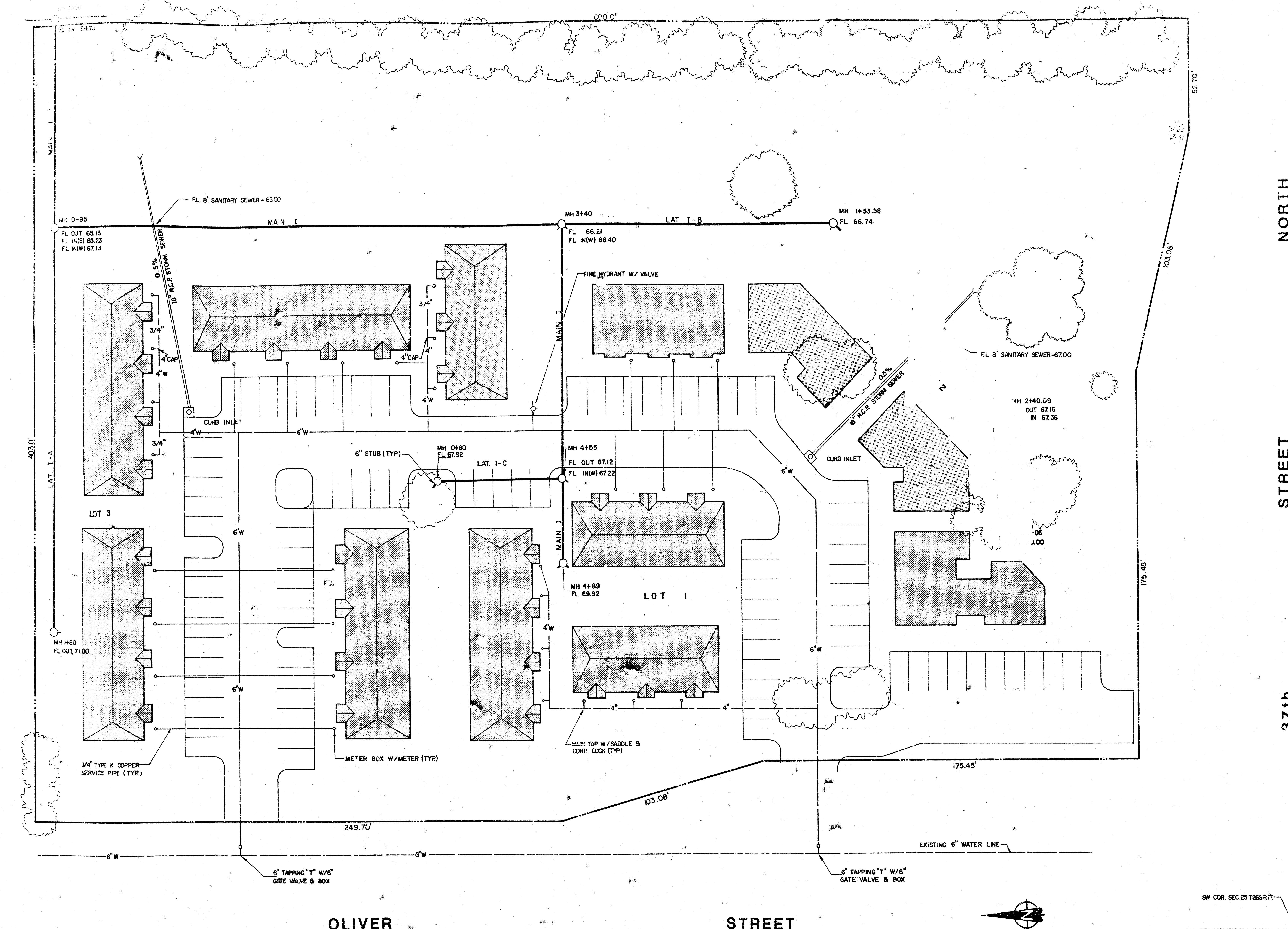
WICHITA PROJ. NO. 468-76-245-80000-000-000-008

REISS & GOODNESS ENGINEERS
2100 WEST 21ST STREET
WICHITA, KANSAS 67204
(316) 832-0213

REVISED 11-3-82

SCALE GIVEN	PROJECT NO MS 1582
DATE 9-22-82	1 OF 7

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AVAILABLE COPY



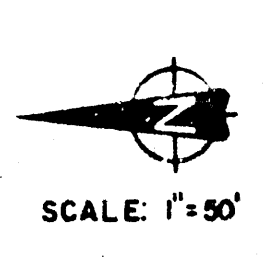
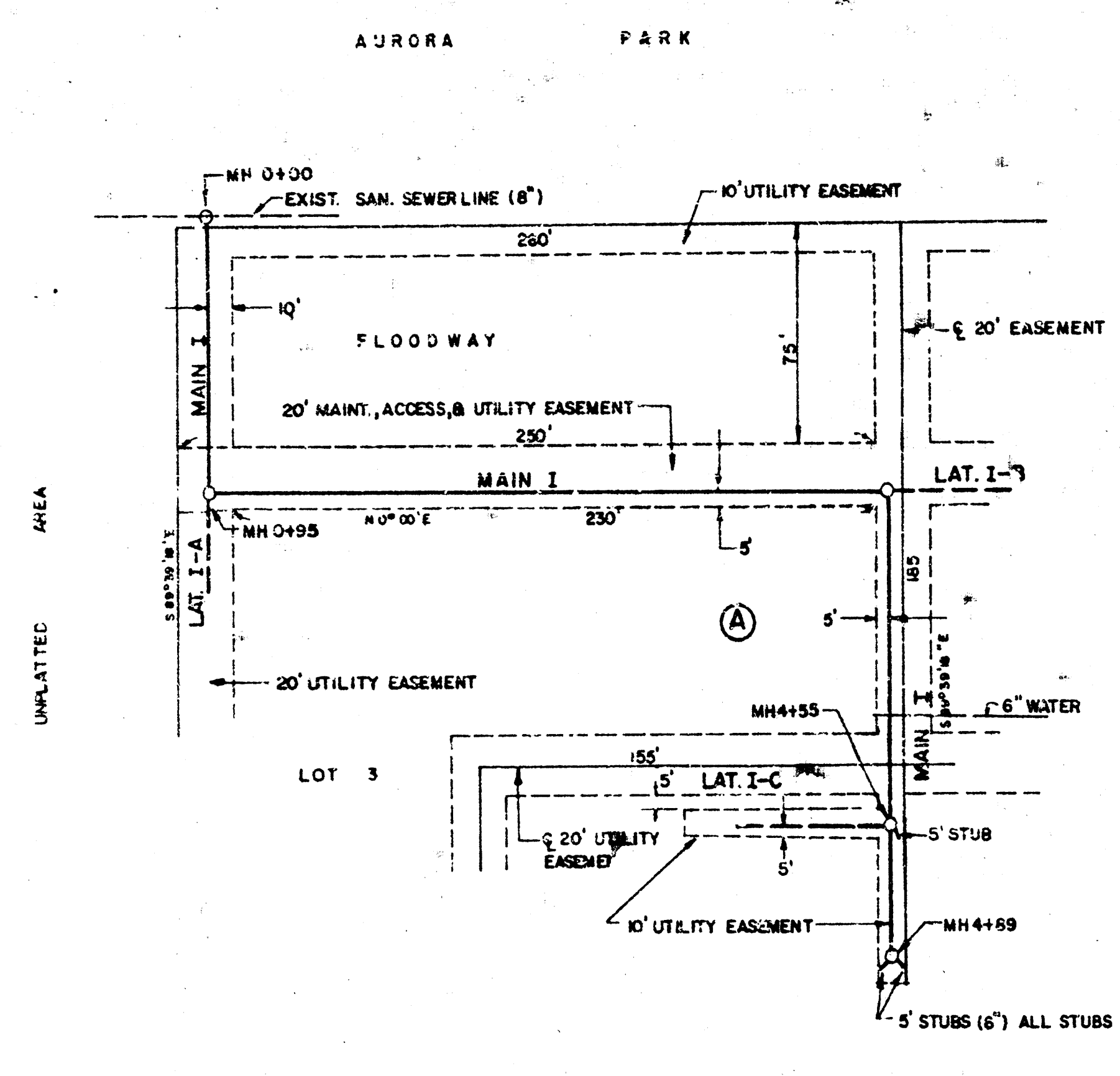
REVISION	DRAWN BY	CHECKED BY	DESIGNED BY	PROJECT	CUSTOMER
				CHAN'S ACRES	BEL AIRE SEDGWICK COUNTY, KANSAS

REISS & GOODNESS ENGINEERS
 2100 WEST 21st STREET
 WICHITA, KANSAS 67204
 (316) 832-0233

WICHITA PROJ. NO. 468-76-245-80000-000-000-008

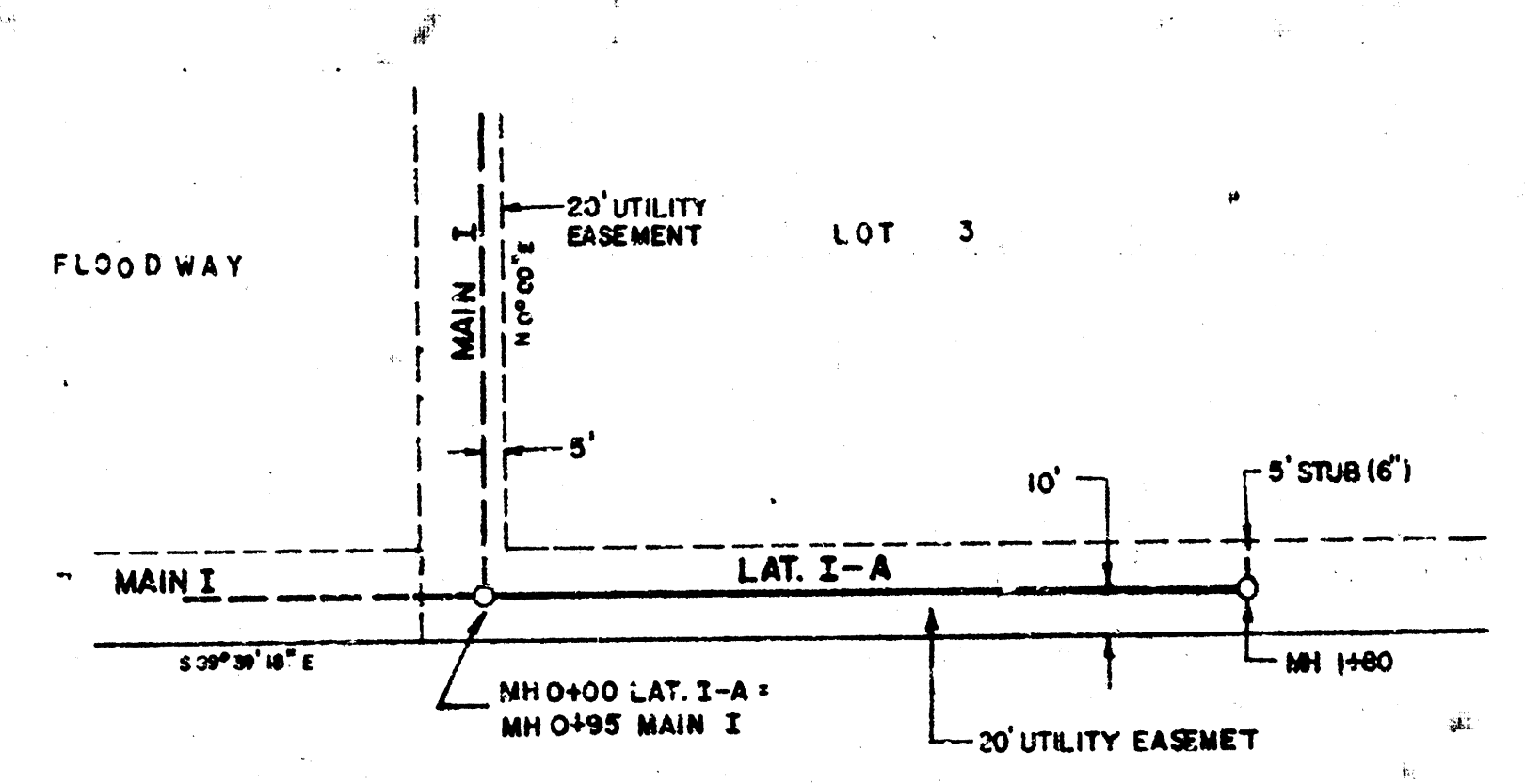
REVISED 11-5-82
 SCALE GIVEN
 DATE 9-22-82
 SHEET 2/7

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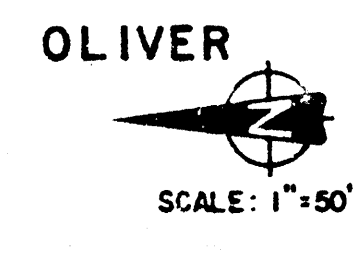
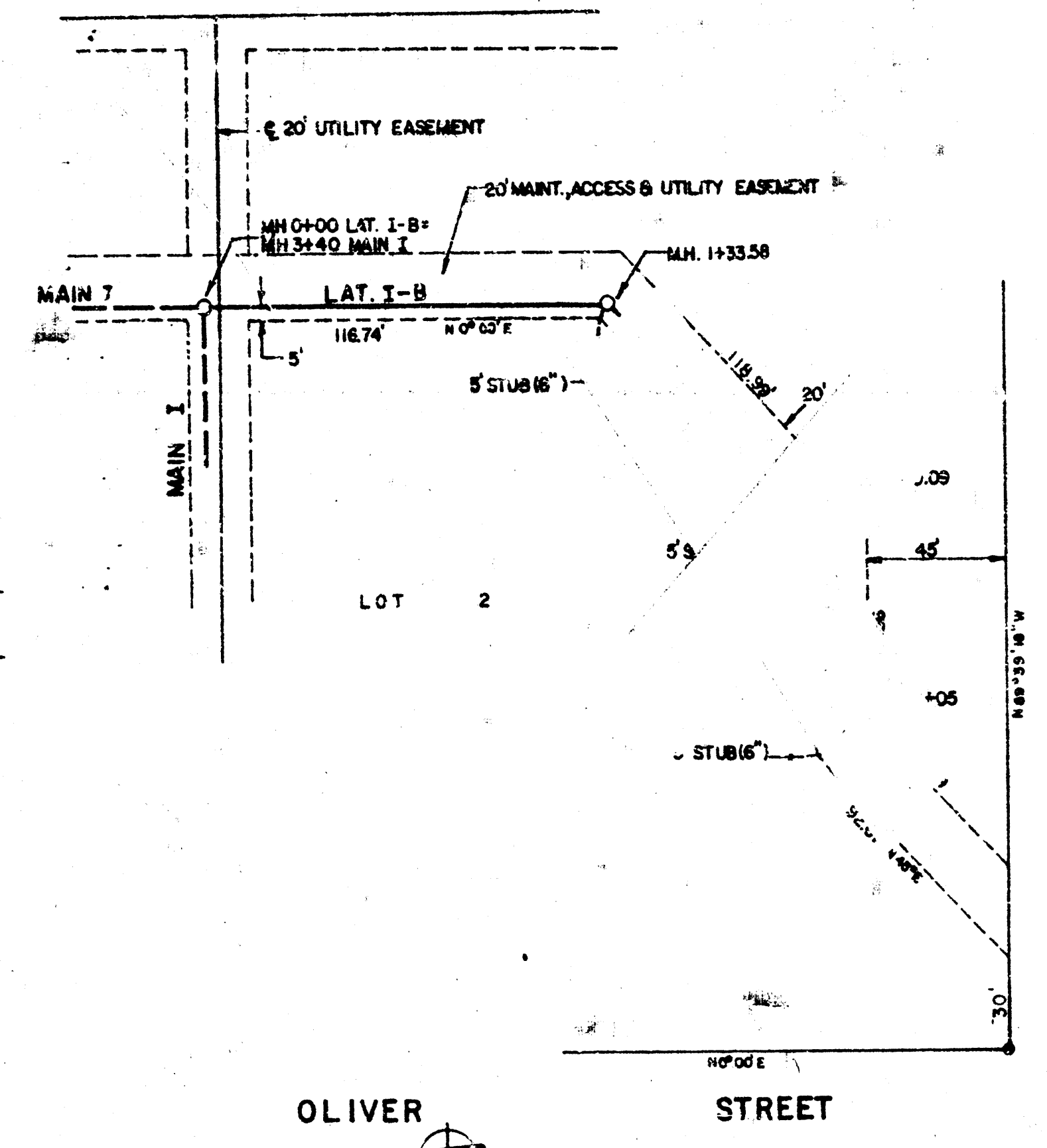


SCALE: 1"=50'

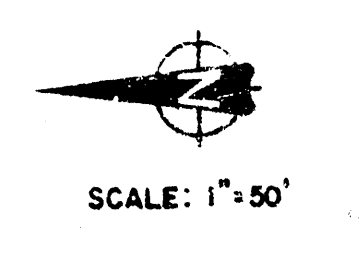
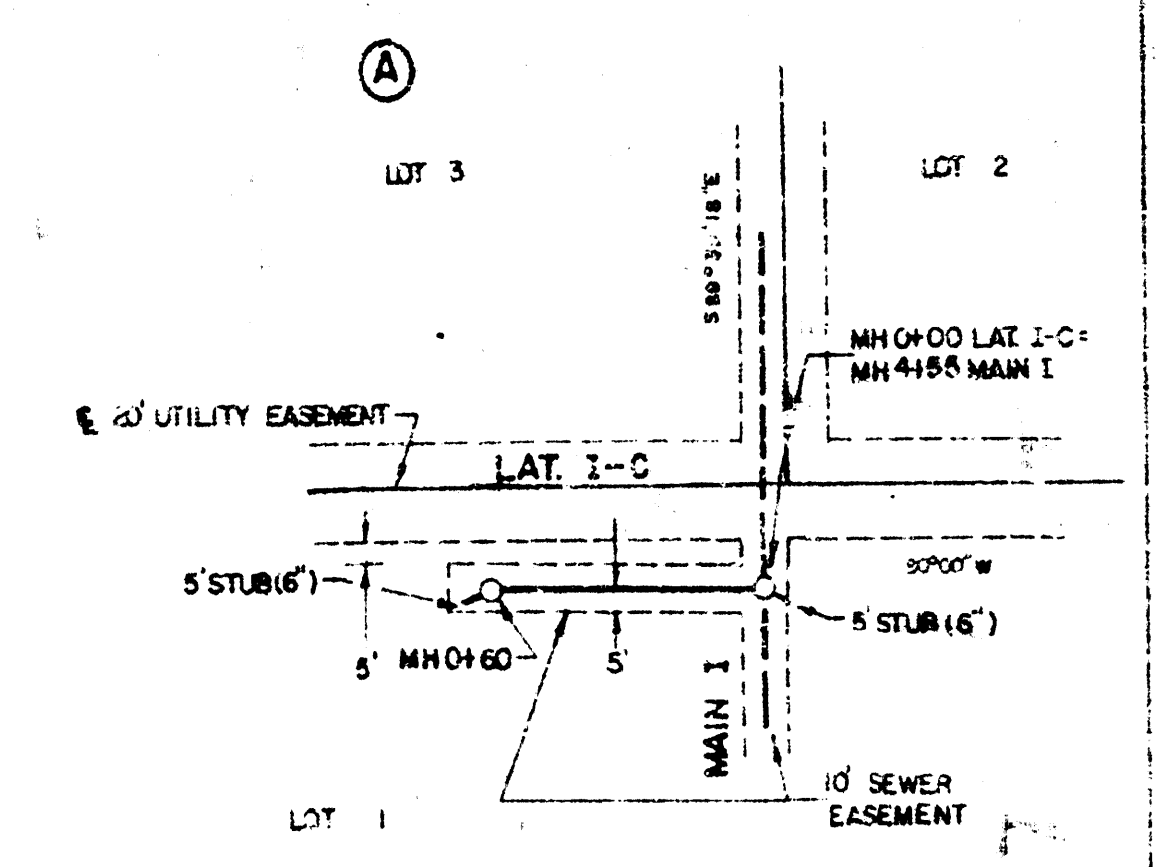
BM CITY STD. BRASS CAP IN SE HUB GUARD OF R.C.B. ON SW COR. OLIVER & 37 TH. ST. NO. EL. 1371.96
ADD 1300.00 TO ELEVATIONS SHOWN HEREON



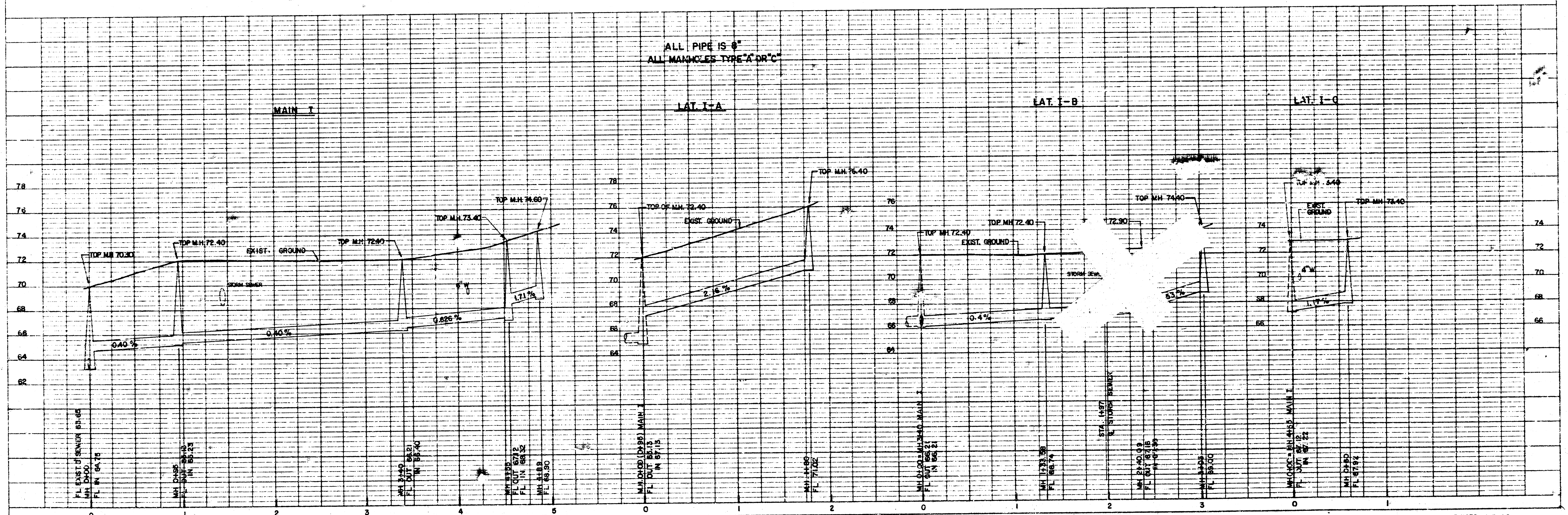
SCALE: 1"=50'



SCALE: 1"=50'



SCALE: 1"=50'



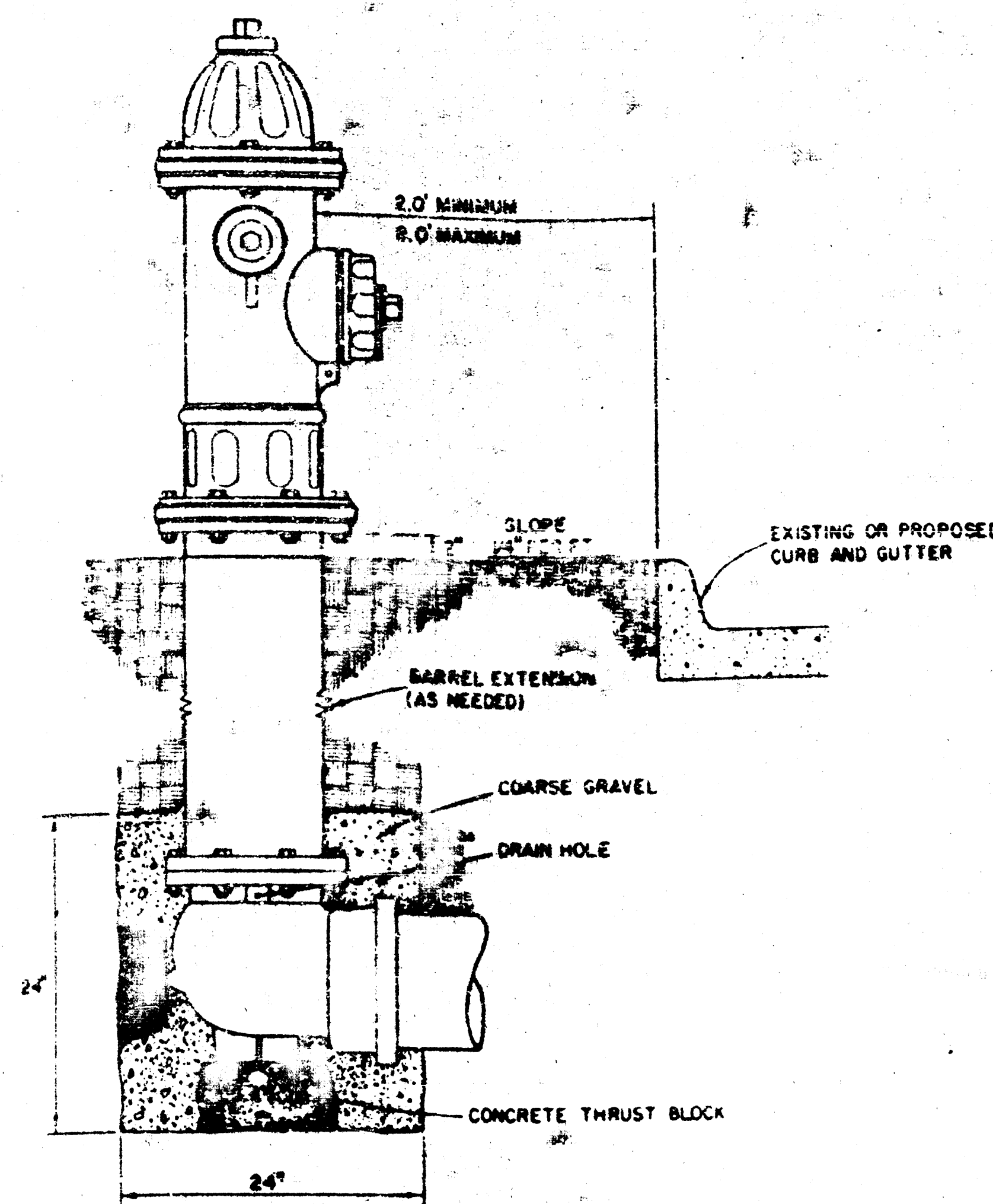
ALL PIPE IS 8"
ALL MANHOLES TYPE "A" OR "C"

REVISED 11-3-82
DEISS & GOODNESS ENGINEERS
2100 WEST 21ST STREET
WICHITA, KANSAS 67203
(316) 632-0283

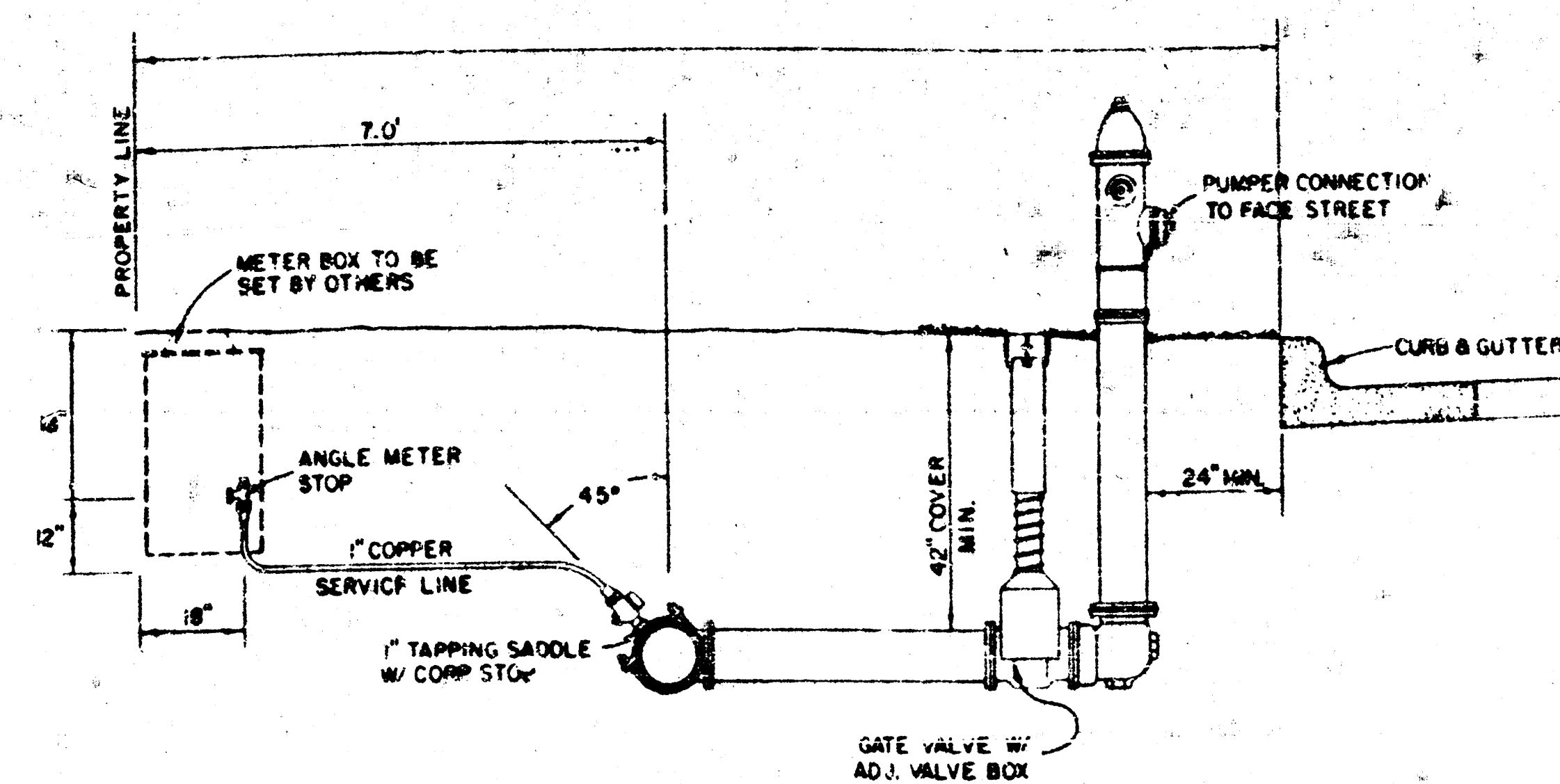
WICHITA PROJ. NO. 468-75-245-80000-000-000-008

REVISION	DRAWN BY	CHECKED BY	DESIGNED BY	PROJECT	CUSTOMER	SCALE GIVEN	DATE	PROJECT NO.	SHEET	OF
				SANITARY SEWER EXTENSIONS	CHAN'S ACRES		9-22-82	1002	3	7

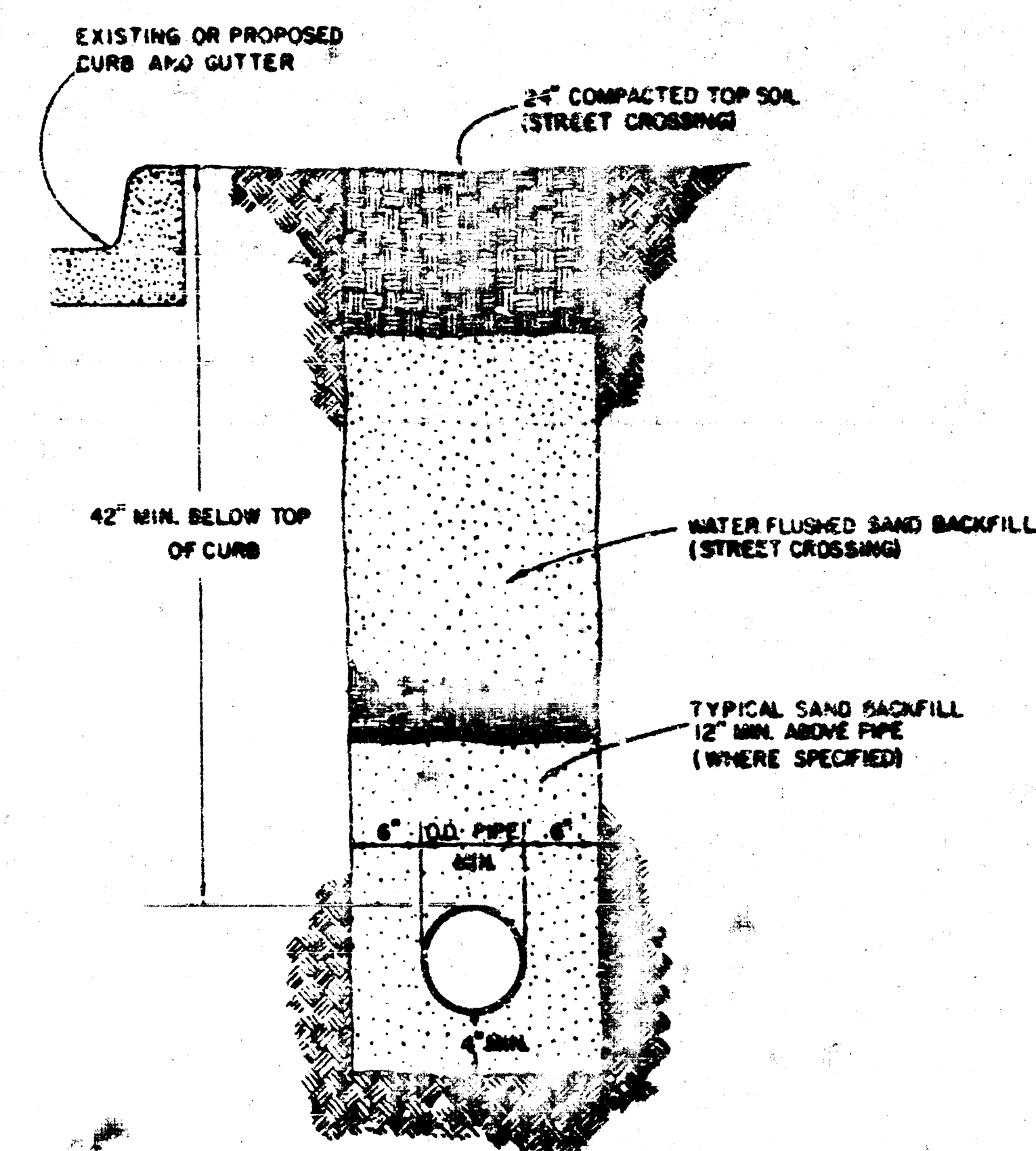
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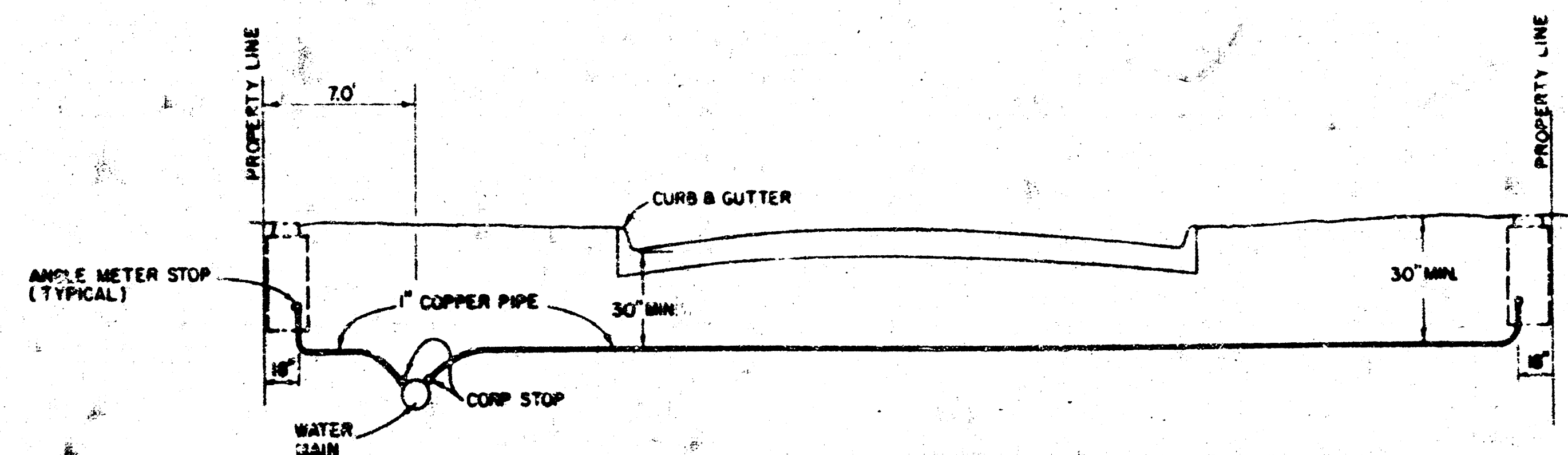
FIRE HYDRANT SETTING DETAIL



TYPICAL SERVICE & FIRE HYDRANT LOCATION

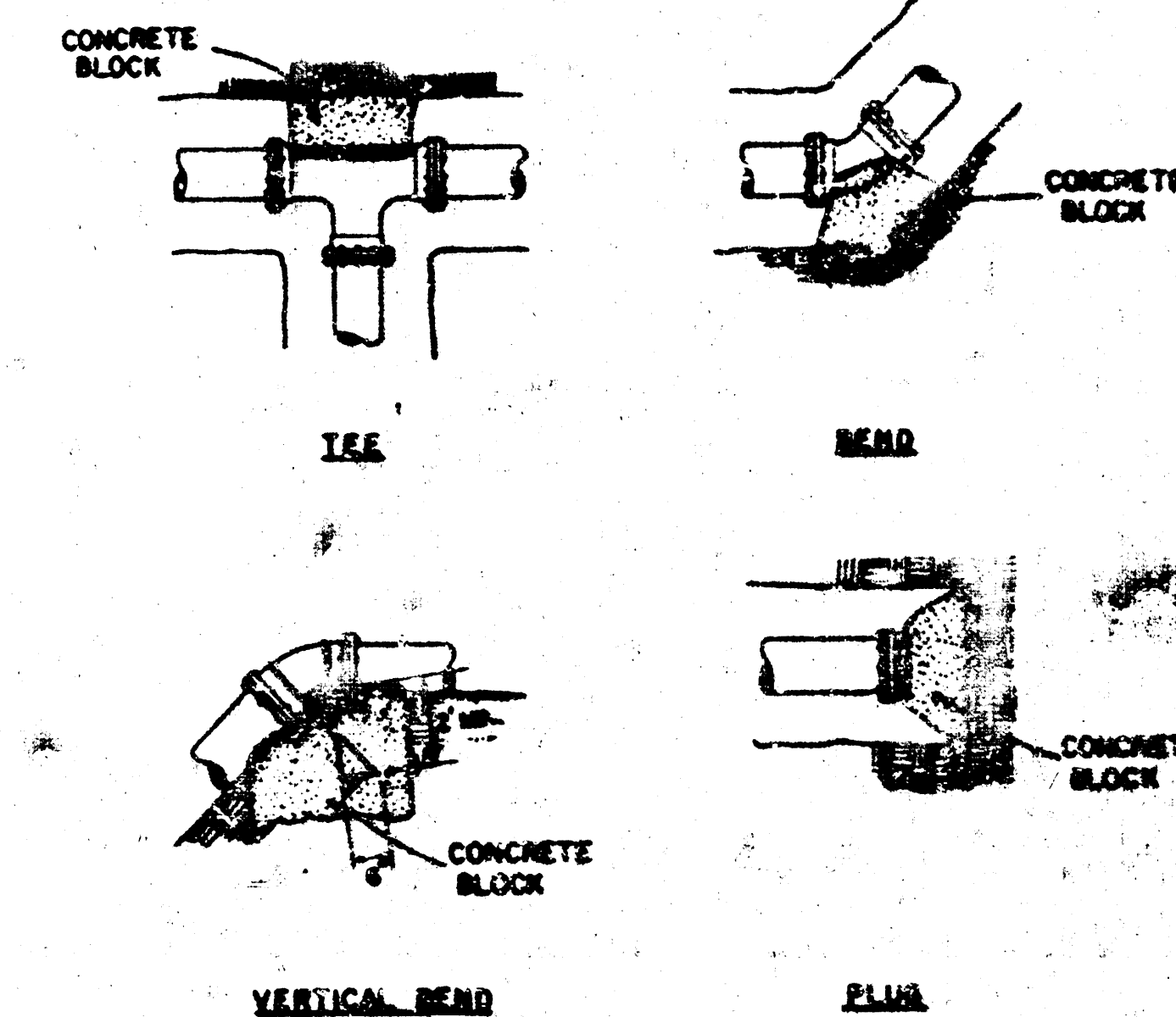


TRENCH DETAIL



TYPICAL SERVICE INSTALLATION

NOTE
TRENCH TO BE FILLED WITH FLUSHED AND VIBRATED SAND TO WITHIN 12" OF FINISHED GROUND ELEVATION OR TO PAVEMENT BASE UNDER PAVEMENT.



PIPE SIZE	THRUST AT FITTINGS IN TONS (AT 90° / 100 PSI)					
	PLUG	90°	45°	22 1/2°	11 1/4°	TEE
6"	2.8	3.95	2.15	1.09	.55	2.8
8"	4.9	6.95	3.75	1.90	.96	4.9
12"	11.4	16.1	8.75	4.45	2.25	11.4
16"	20.15	28.5	15.4	7.85	3.90	20.15
20"	31.15	44.0	23.85	12.15	6.1	31.15
24"	44.95	65.0	34.1	17.4	8.75	44.95

THRUST BLOCKS

DESS & GOODNESS ENGINEERS
2160 WEST 31ST STREET
MICHIGAN, KANSAS CITY, MO 64111
(913) 885-0025

DESIGNED BY: _____ CHECKED BY: _____ DRAWN BY: _____ PROJECT: _____

WATER SYSTEM IMPROVEMENTS

SCALE: _____ DATE: _____

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City of Wichita, Kansas

RING AND LID AS SPECIFIED
 SEE GEN. NOTES
 3
 6" BRICK MASONRY
 1" COAT OF MORTAR
 45" MIN.
 BRICK MASONRY COLLAR
 26" ±
 30" MIN. - 48" MAX.
 30"
 8"
 6"
 MANHOLE WALL
 CITY CONC. PAV'T. MIN.
 NOTE: CROWN OF IN SHALL NOT BE CROWN OF PIPE F.
 FLOOR SHAPING
 SLOPE - 3" TO 1"
 5" MIN.
 SEE GEN. NOTES
 4" MIN. 4 MIN. 8"
 MANHOLE BASE
 CITY CONC. PAV'T. MIN.

[illegible]

This technical drawing illustrates the construction of a manhole, including its walls, base, and surrounding materials. The drawing includes the following labels and dimensions:

- Labels:**
 - SEE GEN NOTES
 - 12" MIN BRICK MASONRY COLLAR
 - COAT OF MORTAR
 - 26" ±
 - 30" ±
 - 8"
 - REVERSE "Y"
 - BACK SAND MIX
 - 4" CONCRETE
 - CEMENT OUTSIDE OF S OR TO THE LIMIT EXCAVATION WHEN DEPTH IS MORE THAN 6'
 - MANHOLE WALL
 - CITY CONC PAV'T MIX
 - MANHOLE BASE
 - CITY CONC PAV'T MIX
 - SEE GEN NOTES
 - FLOOR SHAPING
 - SLOPE 1" TO 3"
- Dimensions:**
 - 12" MIN
 - 50" MIN - 48" MAX
 - VARIABLE
 - 19" MIN
 - 4" MIN
 - 6" MIN

GENERAL NOTES

- [illegible]

MANHOLE FRAME AND COVER DETAIL

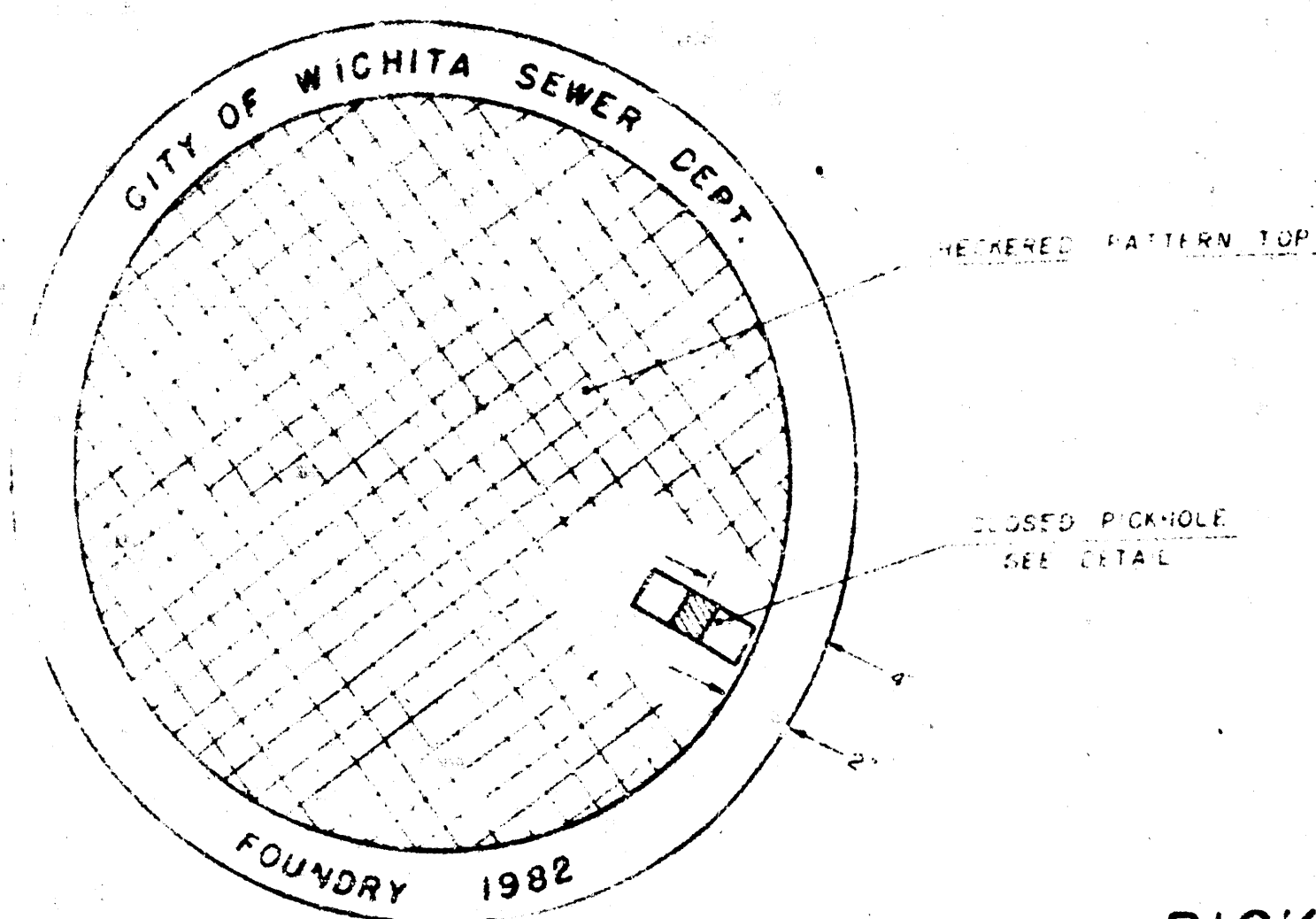
ADOPTED AS STANDARD DESIGN

BY

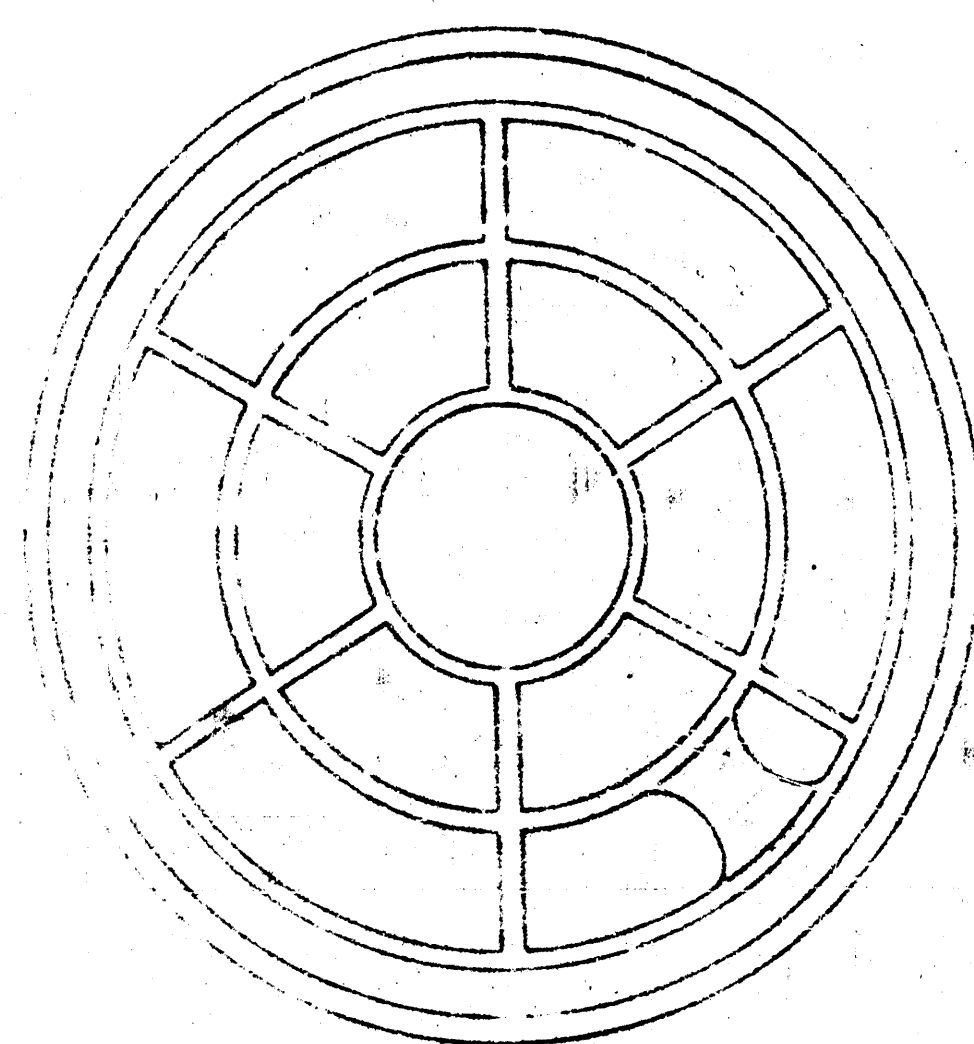
City of Wichita, Kansas

MANHOLE COVER

Weight: 180 Lbs.

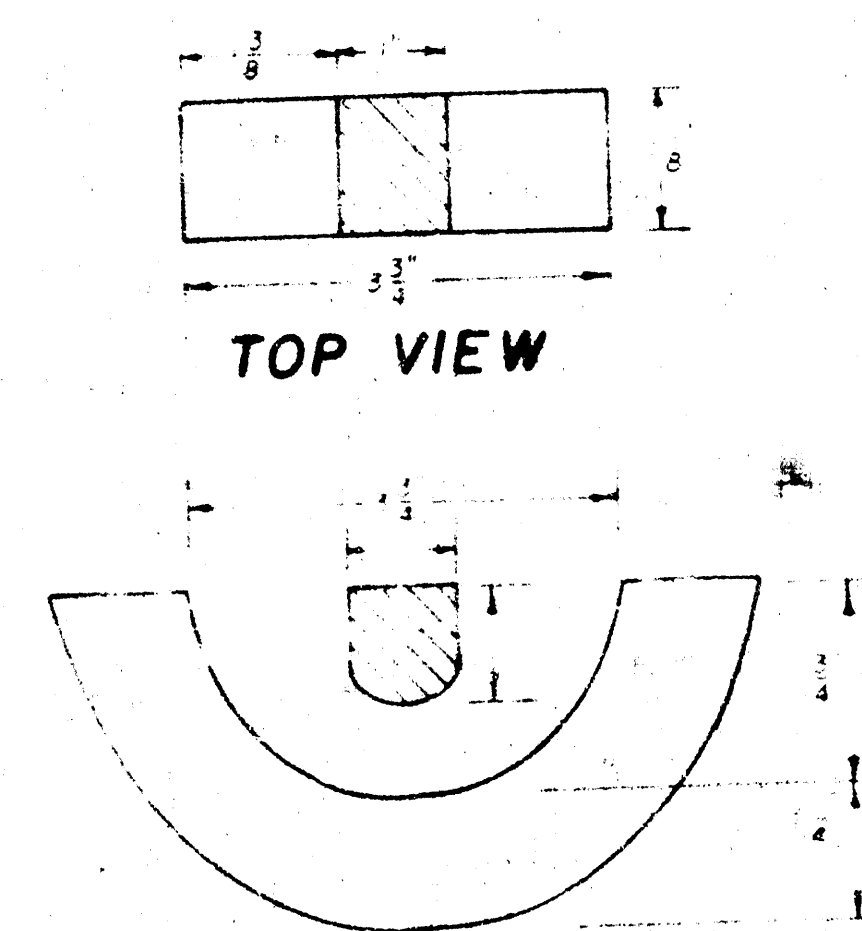


TOP VIEW



BOTTOM VIEW

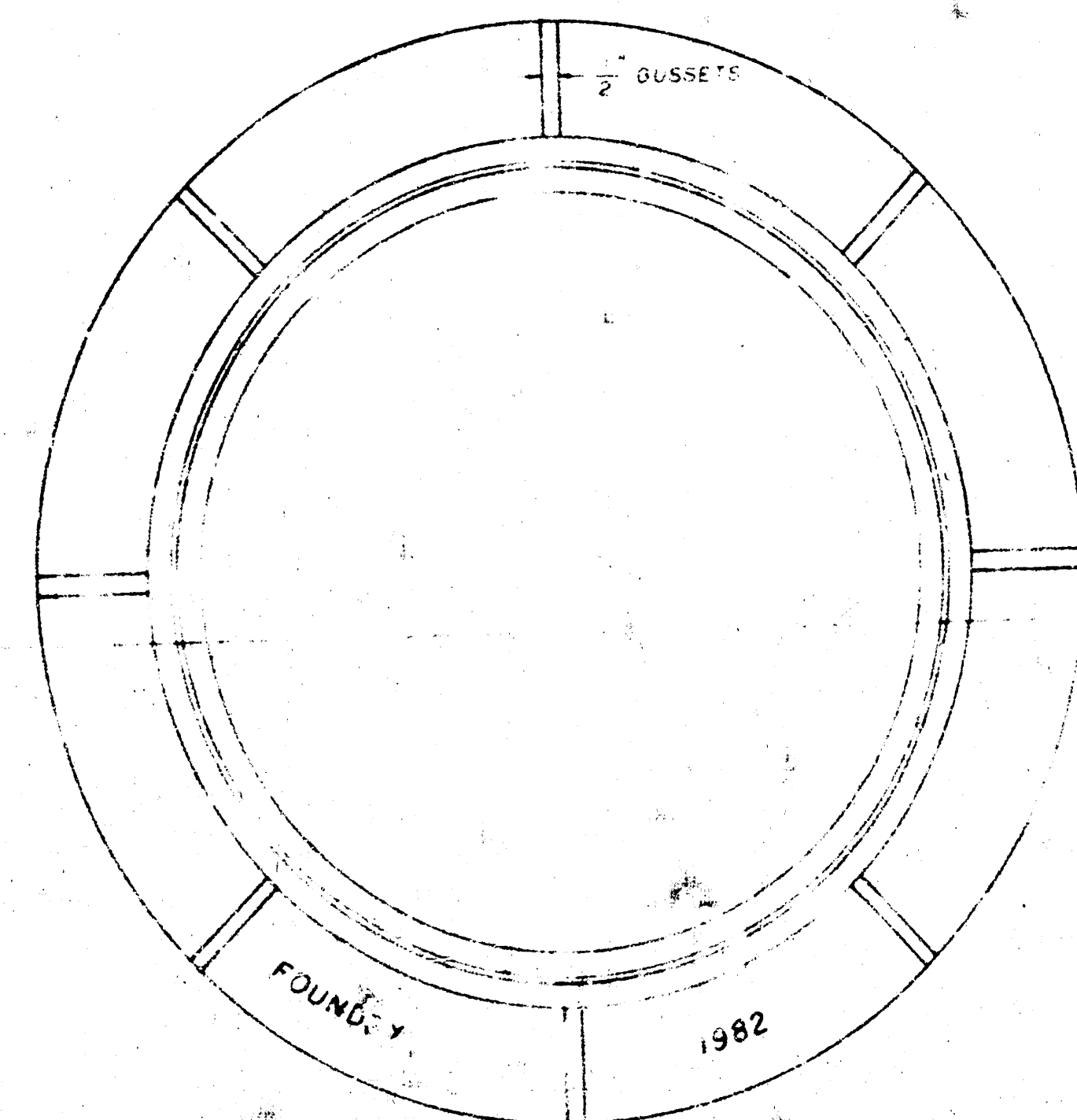
PICKHOLE DETAIL



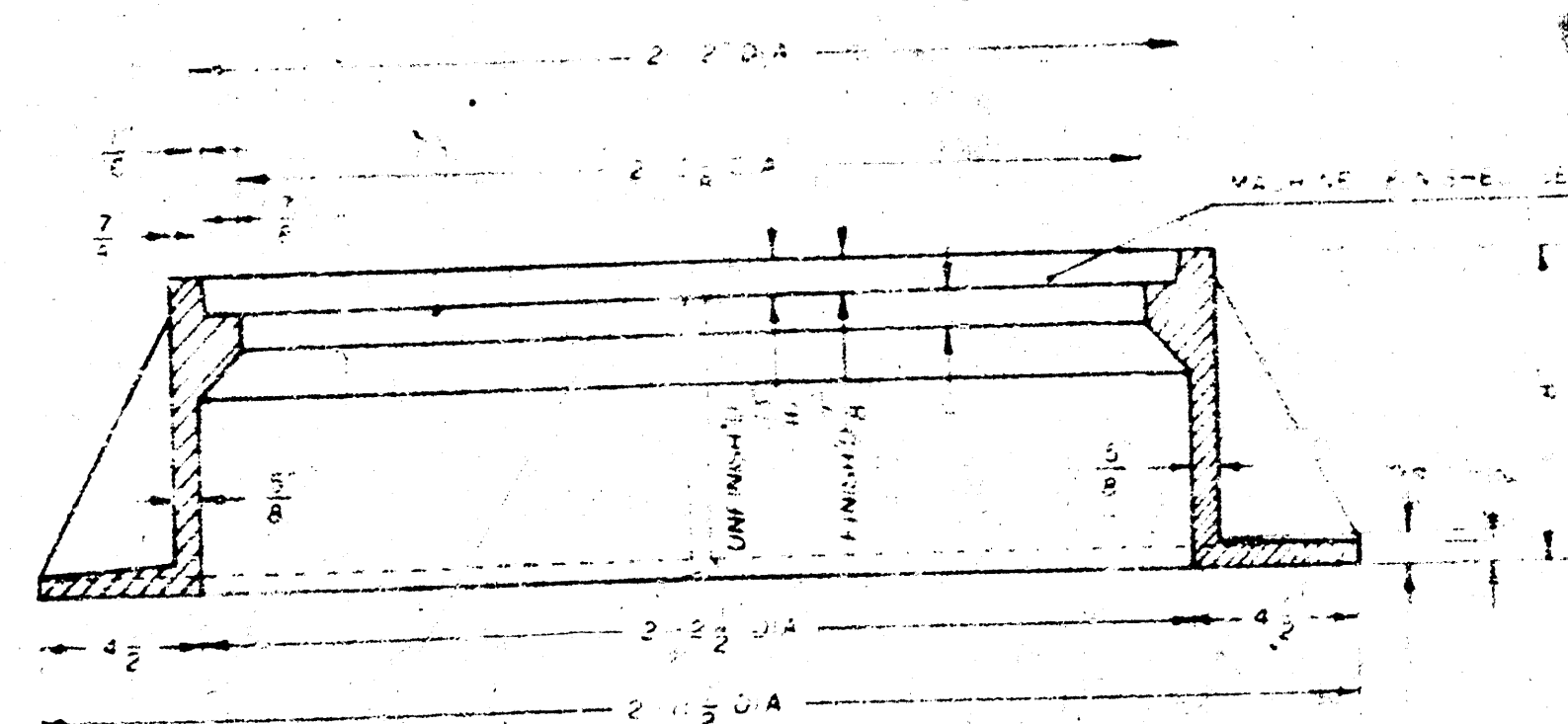
SECTION VIEW

MANHOLE FRAME

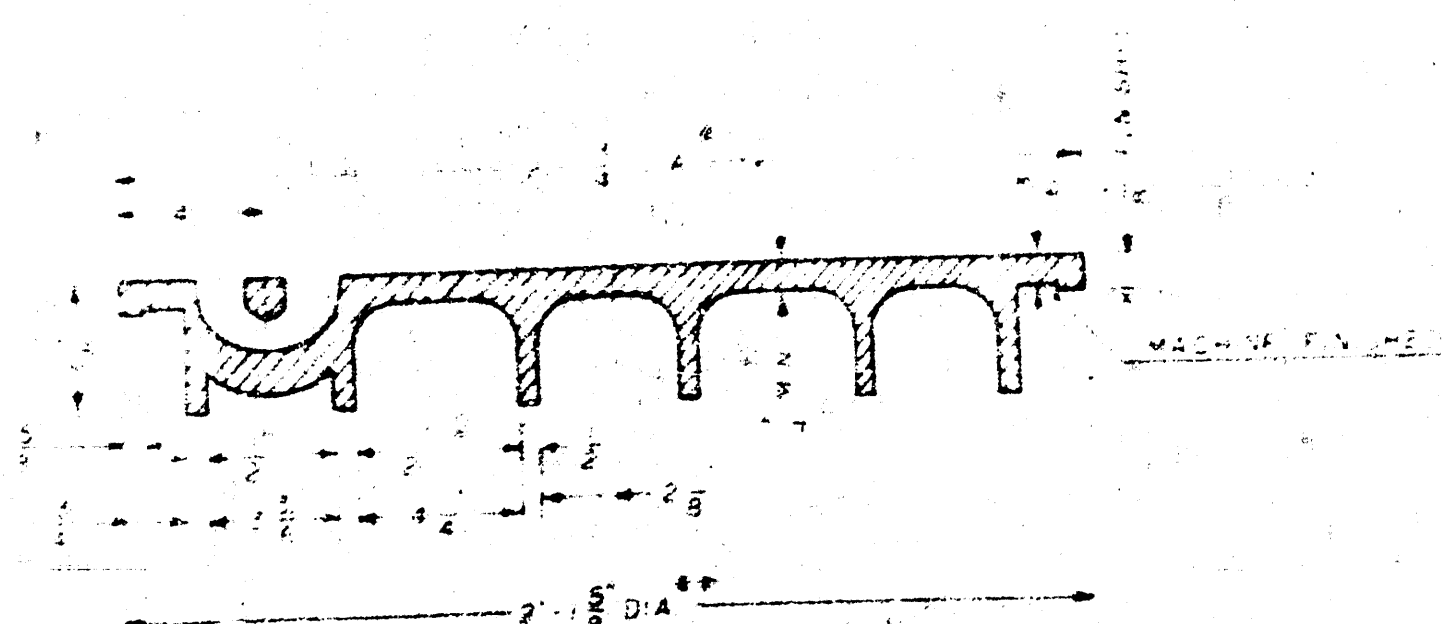
Weight: 240 Lbs.



TOP VIEW



SECTION A-A



SECTION VIEW

* OUTSIDE DIA. TOP OF COVER
** OUTSIDE DIA. BOTTOM OF COVER

GENERAL NOTES

1. MANHOLE CASTINGS SHALL BE MANUFACTURED USING GRADE 48,000 PSI STEEL. DIMENSIONS AND WEIGHTS SHALL BE AS SHOWN. DIMENSIONS SHALL BE CONSIDERED AS MINIMUM REQUIREMENTS. DIMENSIONS SHALL BE THE DIMENSIONS SHOWN MUST BE SPECIFICALLY APPLIED. THE FINISHED CASTINGS SHALL BE OF UNIFORM QUALITY, FREE FROM BLOTTES, POROSITY, LACER, SCRAPE, CRACKS, OR OTHER DEFECTS.
2. MANHOLE CASTINGS SHALL BE COATED WITH AN ASPHALT PAINT RESISTING IN A WEAR SURFACE AND TENSILES LAMING WHICH IS NOT BRITTLE OR TACKY.
3. MANHOLE CASTINGS SHALL BE MANUFACTURED SUCH THAT A COVER MANUFACTURED BY ONE FOUNDRY WITH FIT INTERCHANGEABLY INTO A FRAME MANUFACTURED BY ANOTHER FOUNDRY AND STILL MEET ALL CLEARANCES AND NON-SEIZING REQUIREMENTS. THIS WILL REQUIRE MANUFACTURING OF THE MATCHING FACES ON THE COVER AND THE FRAME TO CLOSE TOLERANCES.
4. THE MATCHING SURFACES OF THE VERTICAL FACE OF THE COVER AND THE INNER CIRCUMFERENCE OF THE VERTICAL FACE IN THE FRAME SHALL BE FINISHED TO CLOSE TOLERANCES. THE MATCHING SURFACES OF THE COVER AND FRAME SHALL BE FINISHED TO CLOSE TOLERANCES. THE MATCHING SURFACES OF THE COVER AND FRAME SHALL BE FINISHED TO CLOSE TOLERANCES. THE MATCHING SURFACES OF THE COVER AND FRAME SHALL BE FINISHED TO CLOSE TOLERANCES.
5. THE MANHOLE FRAME AND COVER SHALL BE MARKED WITH LETTERS IDENTIFYING THE NAME OF THE FOUNDRY AND THE YEAR WHEN THE COVER OR FRAME WAS CAST. THE LETTERS SHALL BE AT LEAST 1/2 IN. HIGH. THIS IDENTIFICATION SHALL BE "CITY OF WICHITA SEWER DEPARTMENT". THE WORD "MANUFACTURED" MAY BE IDENTIFIED. THE TEXTURE OF THE TOP SURFACE OF THE COVER SHALL BE MANUFACTURED IN A RECESSED PATTERN DESIGN AS INDICATED ON THE DRAWING. THE TOTAL AREA OF RECESSED PATTERN SHALL NOT EXCEED THE AREA AS INDICATED ON THE DRAWING. THE RECESSED PATTERN SHALL NOT EXCEED THE AREA AS INDICATED ON THE DRAWING. THE RECESSED PATTERN SHALL NOT EXCEED THE AREA AS INDICATED ON THE DRAWING.

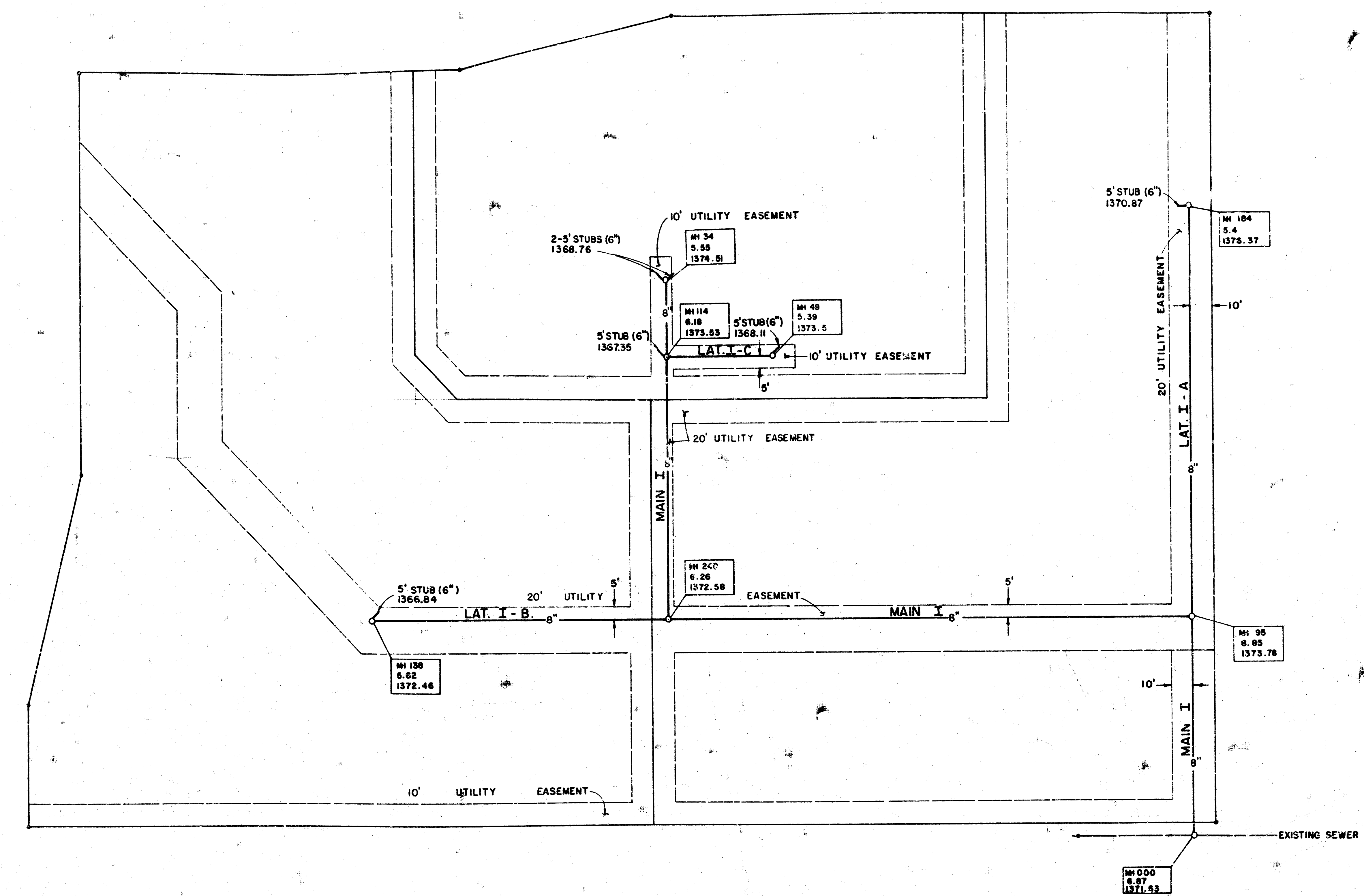
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S.W. COR. SEC. 23
T26S, R1E

OLIVER STREET

37 TH ST. NORTH



LEGEND

MH 123
3.45
1456.78

DISTANCE TO DOWNSTREAM MANHOLE
MEASUREMENT (RING TO FL. OUT)
TOP OF MANHOLE RING (U.S.G.S. DATUM)

MANHOLE LINE
SEWER LINE

SCALE: 1" = 30'

REISS & GOODNESS ENGINEERS
2100 WEST 21ST STREET
WICHITA, KANSAS 67203
(316) 632-0213

REVISION	DRAWN BY	CHECKED BY	DESIGNED BY	PROJECT	CUSTOMER	SCALE	PROJECT NO.
				"AS BUILT" SEWER SYSTEM - CHAN'S ACRES	BEL AIRE, KANSAS	DATE	SHEET 1 OF 1

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