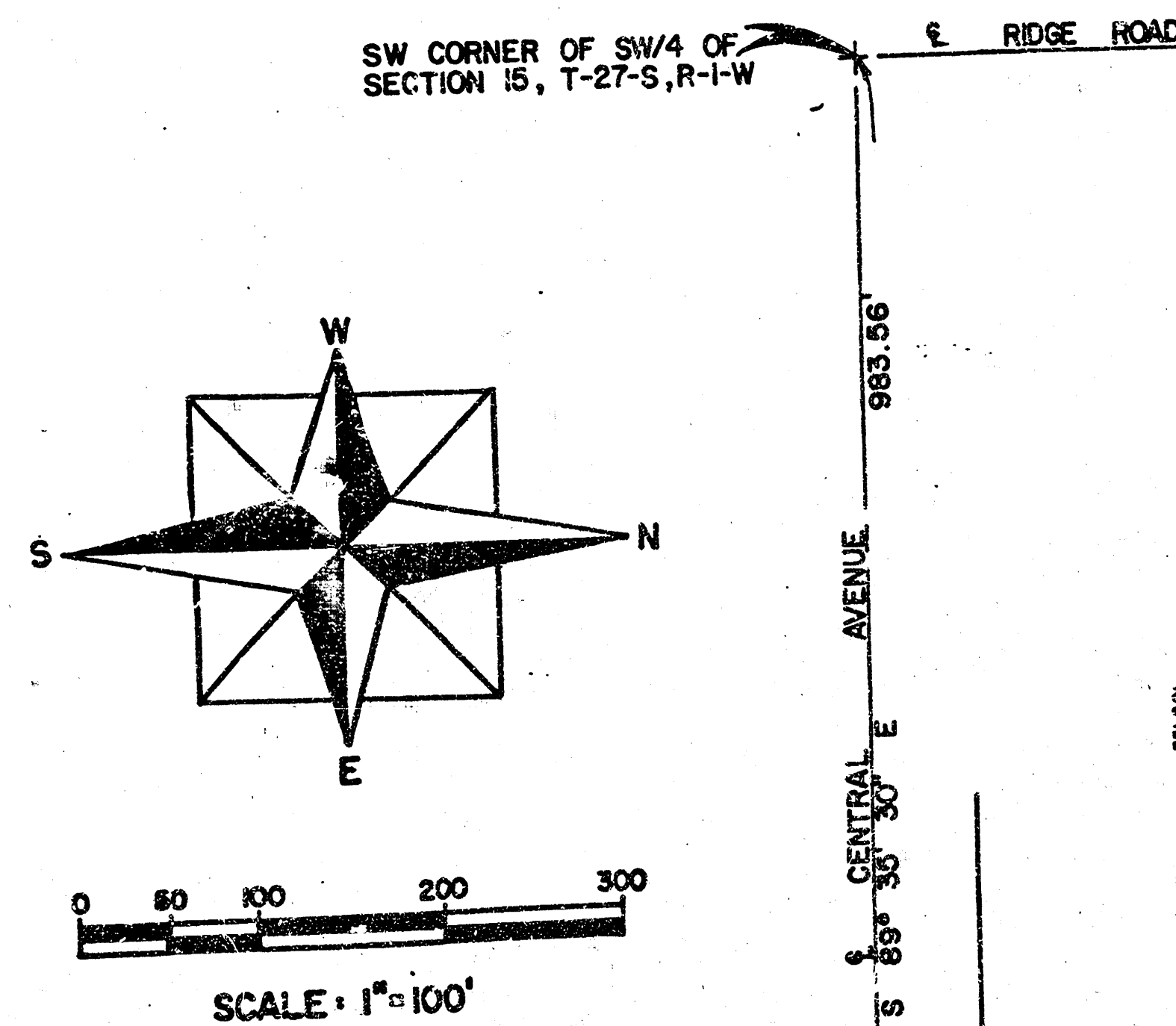


RAINTREE APARTMENTS

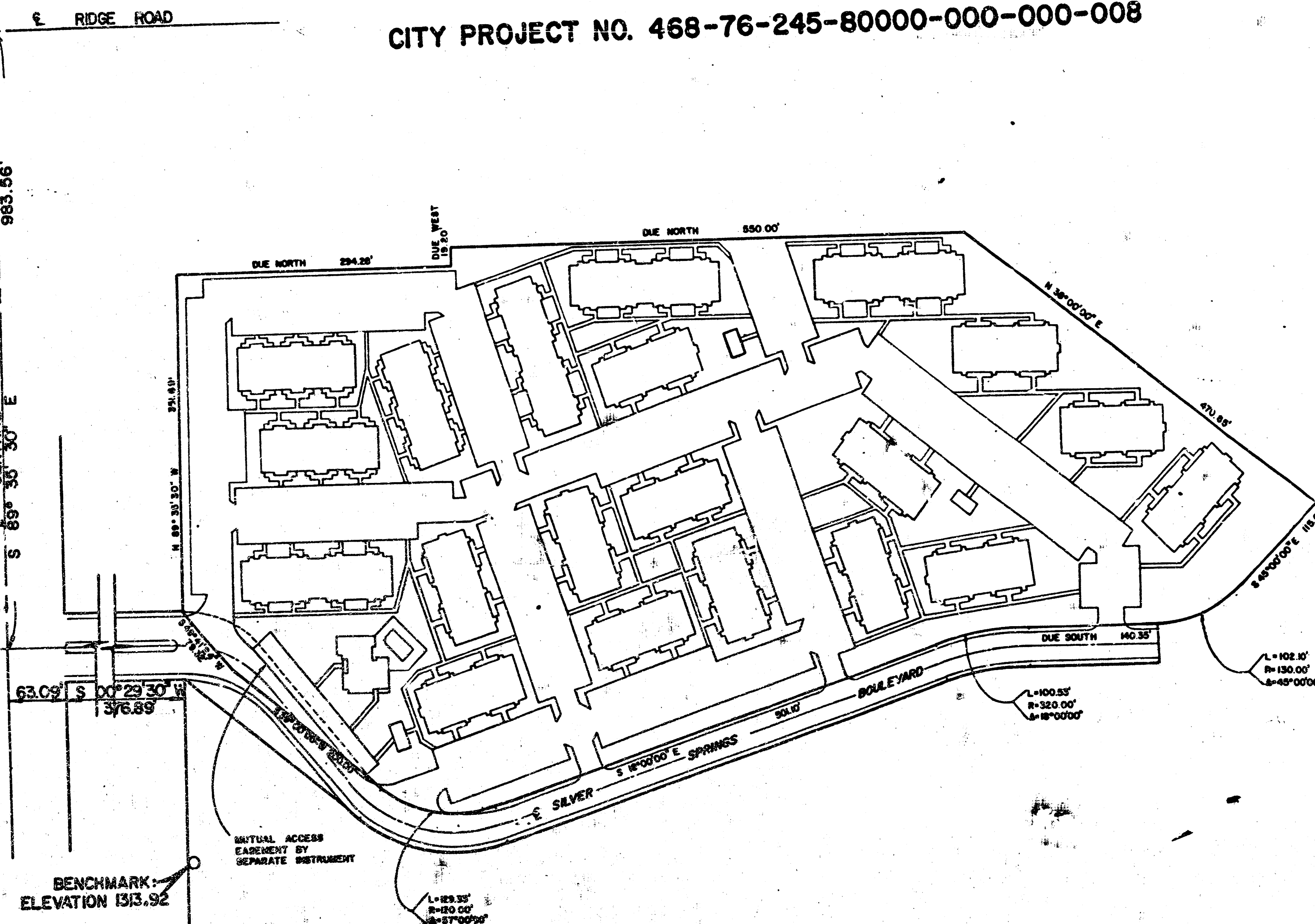
LOT 3, BLOCK 1, SILVER SPRINGS
AN ADDITION TO THE CITY OF WICHITA, KANSAS
SANITARY SEWER PLAN

CITY PROJECT NO. 468-76-245-80000-000-000-008



OWNER
FLOYD R. HARDESTY
4606 SOUTH GARNETT
TULSA, OKLAHOMA
74145
PHONE: 622-3600

- LEGEND**
- STANDARD TYPE "A" OR "C" 4" I.D. MANHOLE & NUMBER
 - STANDARD LAMPHOLE & LETTER
 - CONNECTION TO EXISTING MANHOLE & LETTER
 - 6" VITRIFIED CLAY PIPE UNLESS OTHERWISE NOTED
 - STM...STM STORM SEWER CROSSING
 - W...W WATER CROSSING
 - CAST IRON PIPE

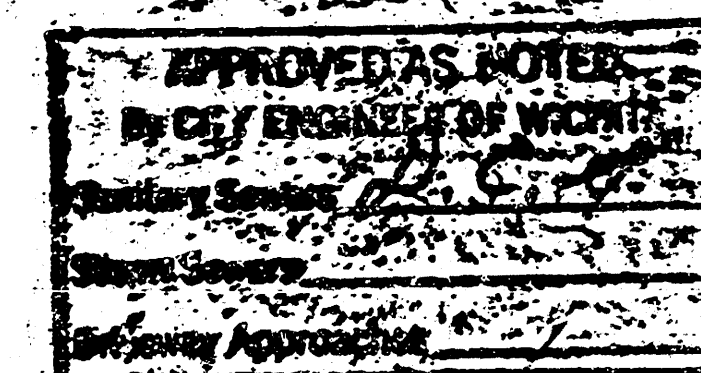


BENCHMARK
ELEVATION 1313.92

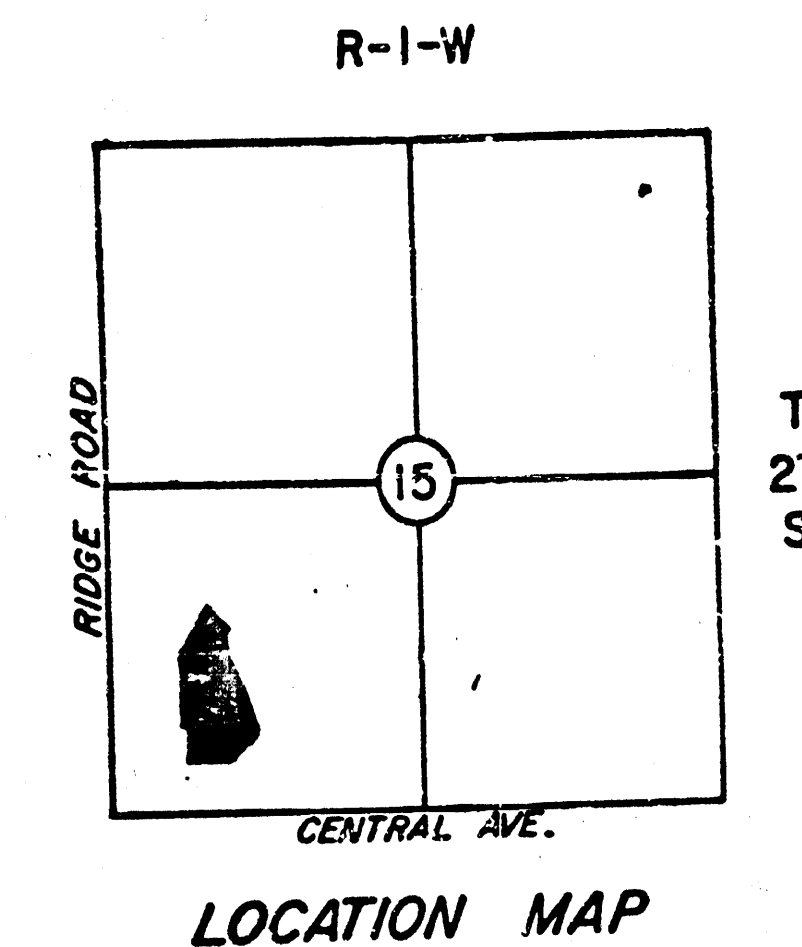
BENCHMARK: APPROXIMATELY 1135.00 FEET EAST
AND 453.57 FEET NORTH OF THE SOUTHWEST
CORNER OF SECTION 15, T-27-S, R-1-W
ELEVATION 1313.92

GENERAL NOTES

ALL CONSTRUCTION TO BE IN STRICT ACCORDANCE
WITH CITY OF WICHITA SPECIFICATIONS.
EXISTING UNDERGROUND LINES HAVE BEEN SHOWN TO THE EXTENT
KNOWN AND LOCATIONS ARE APPROXIMATE. THE EXACT LOCATIONS
AND NOTIFICATION OF THE PROPER AGENCY IS THE RESPONSIBILITY
OF THE CONTRACTOR PRIOR TO ANY EXCAVATION.
ALL ELEVATIONS ARE U.S.G.S. BASED ON SEA LEVEL DATUM.

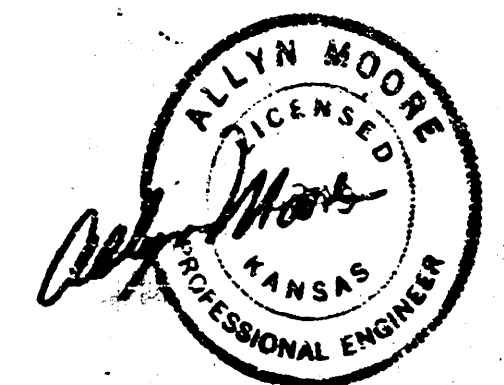


NOTE TO CONTRACTOR
This project will be completed under
the supervision of the CITY ENGINEER
and conforming to the SPECIFICATIONS
of the CITY OF WICHITA. The CONTRACTOR
shall prepare the City of Wichita
for all details of inspection.

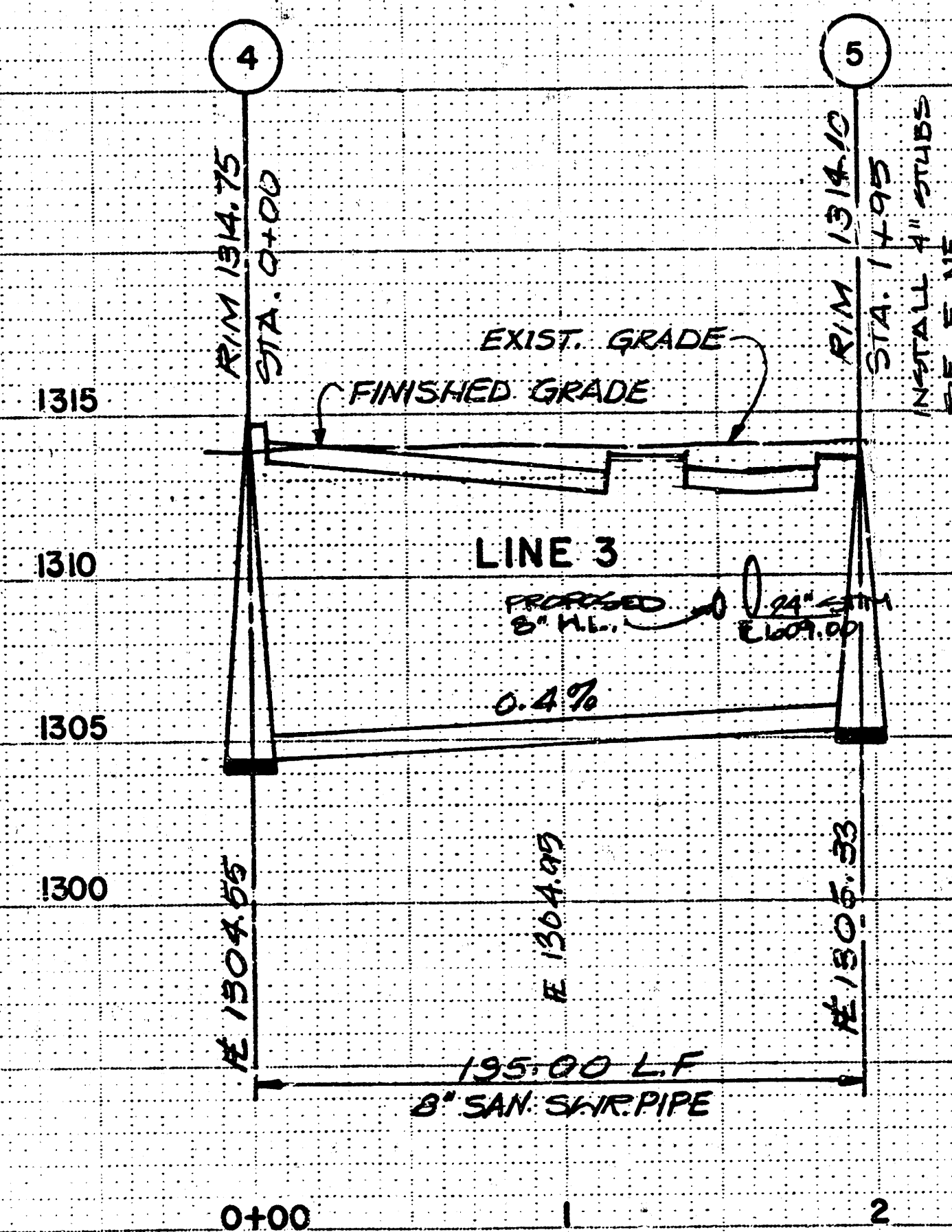
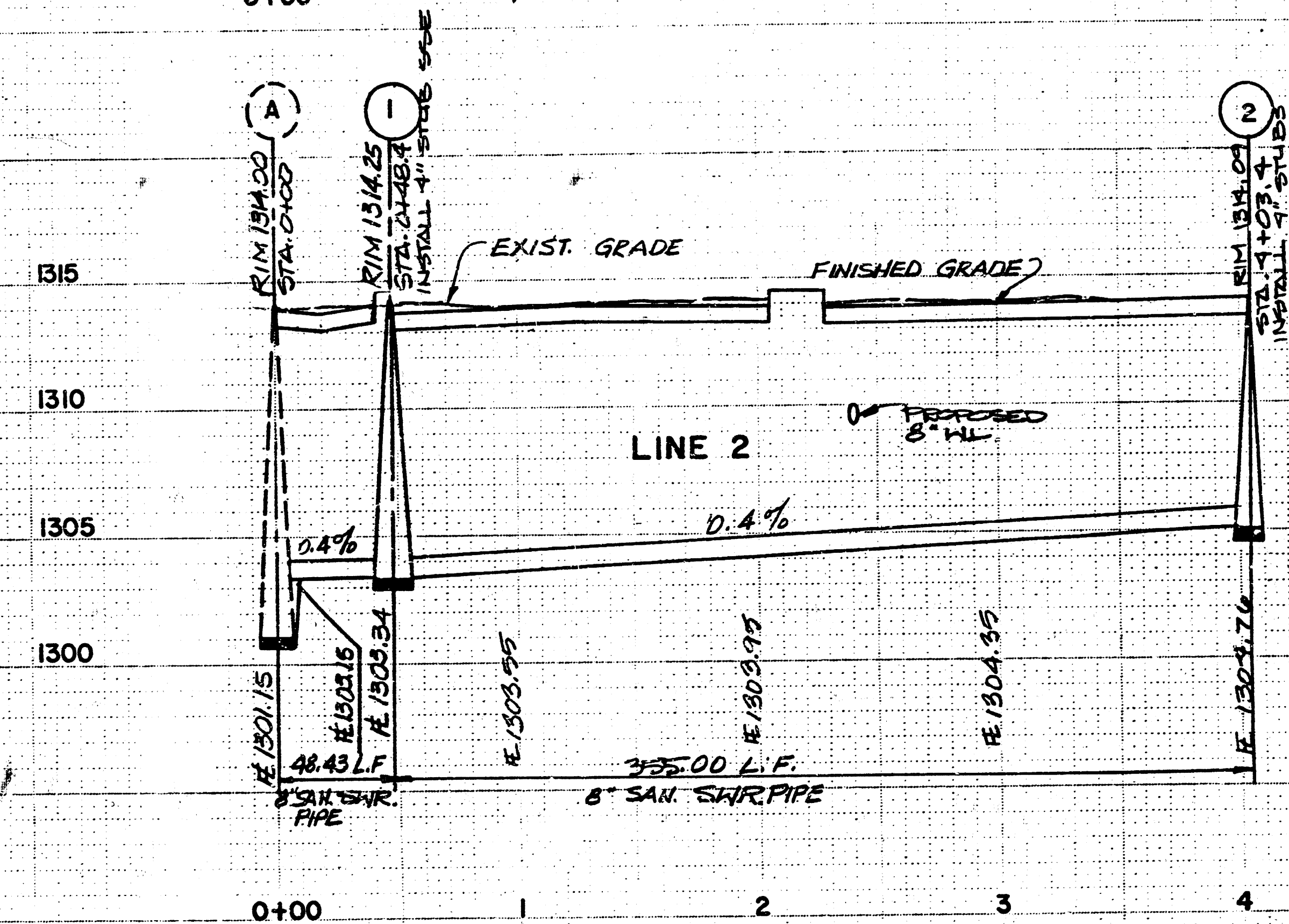
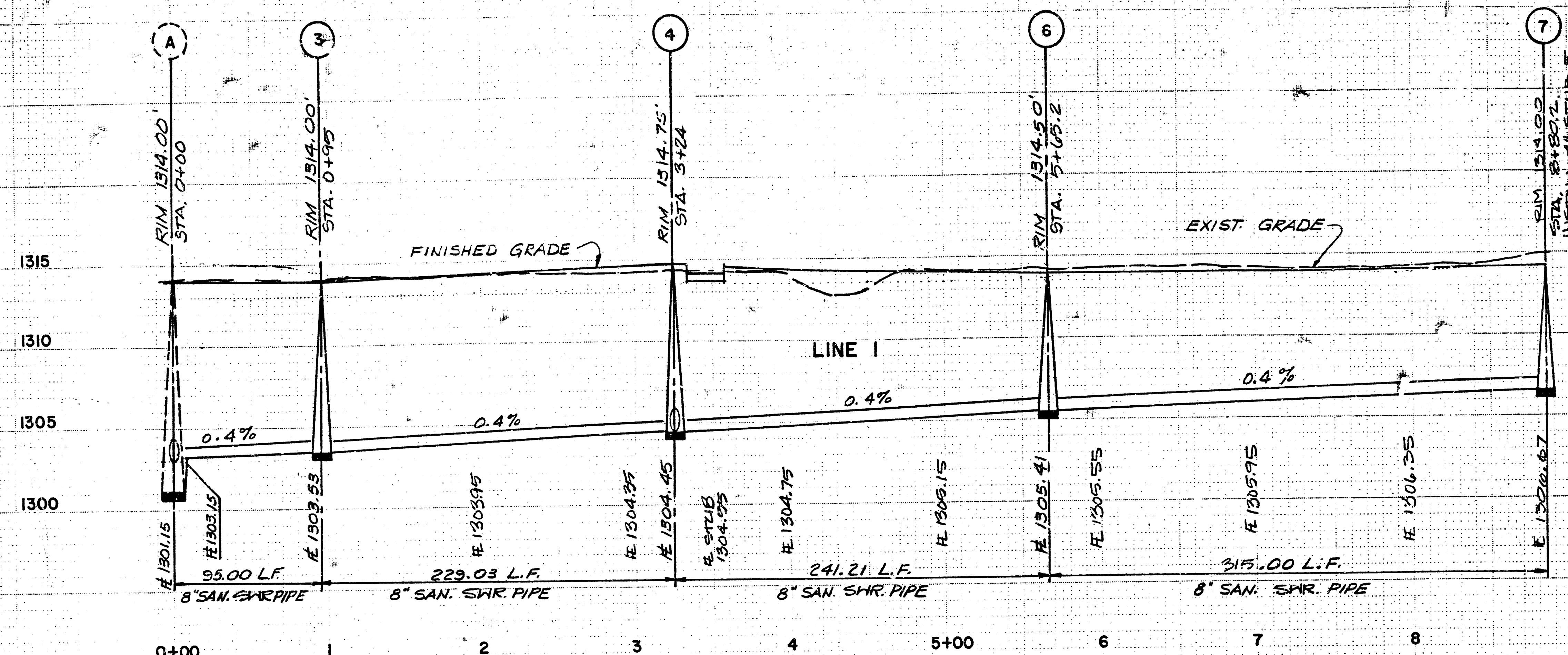


INDEX

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	SANITARY SEWER PLAN
3	SANITARY SEWER PROFILES
4	MANHOLE FRAME AND COVER DETAILS



CITY OF WICHITA KANSAS	
AL C. YOUNG & ASSOCIATES	
808 S. PIERCE • TULSA, OKLA. 74106 • 918/583-4181	
REVISION	DATE
PLAN SCALE	DRAWN S.D.O.
DESIGNED J.T.	
PROFILE SCALE	RAINTREE APARTMENTS
HORIZONTAL	SANITARY SEWER
VERTICAL	TITLE SHEET
RECOMMENDED	
ENGINEER'S DIRECTOR	
FILE: 4118	DRAWING
ATLAS PAGE NO:	DATE:
	SHEET 1 OF 4 SHEETS



CITY OF WICHITA, KANSAS

R. C. YOUNG & ASSOCIATES

1000 S. WILSON ST. WICHITA, KANSAS 67202

REVISION	BY	DATE	PLAN SCALE	DRAWN	W.S.	APPROVED
			1"	DESIGNED	T.J.S.	
				RAINTREE APARTMENTS		
			PROFILE SCALE			
			HORIZONTAL			
			1" = 50'			
			VERTICAL			
			1" = 5'			
			FILE: 4118	DRAWING		
			ATLAS PAGE 1/C			

MANHOLE FRAME AND COVER DETAIL

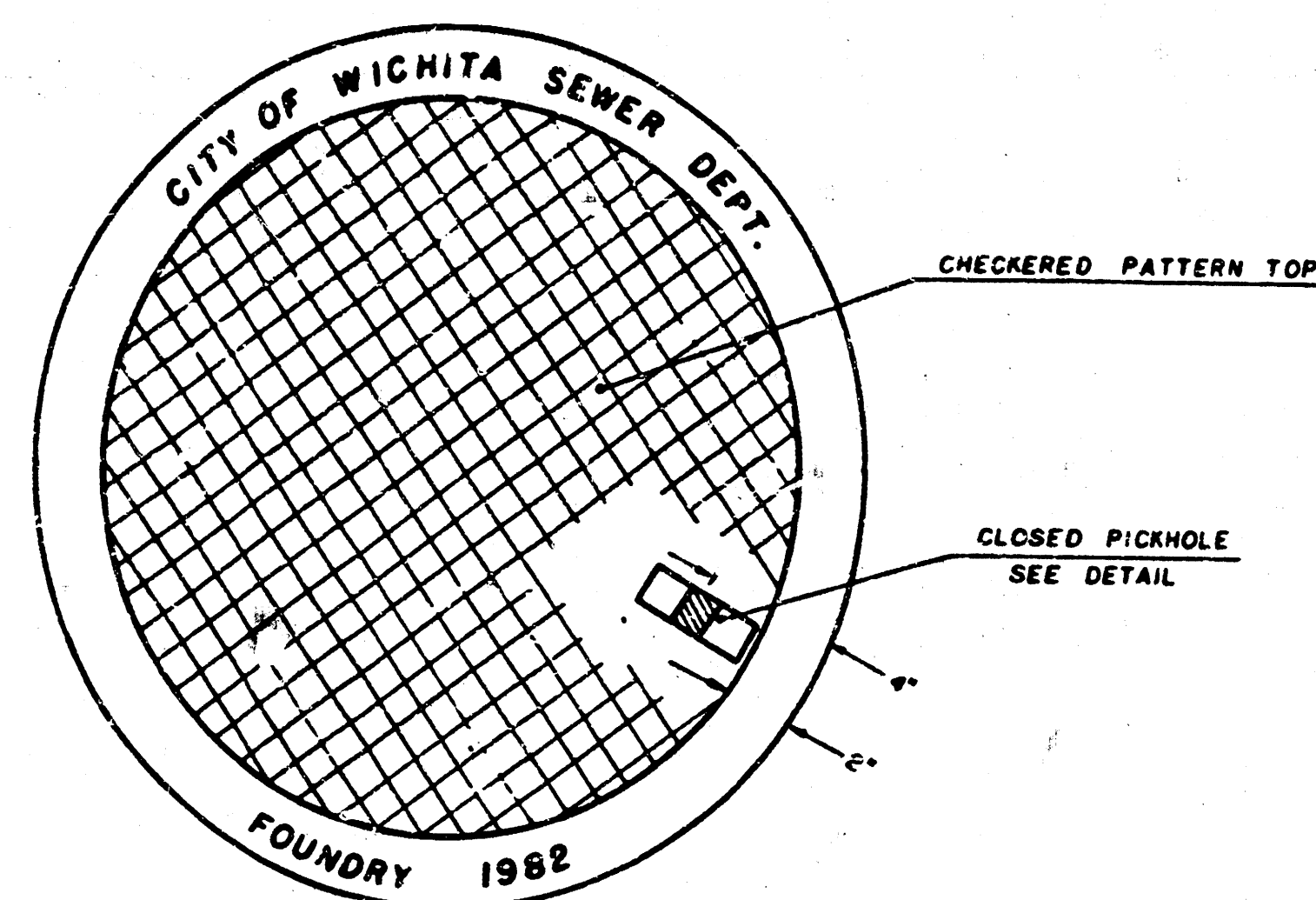
ADOPTED AS STANDARD DESIGN

BY

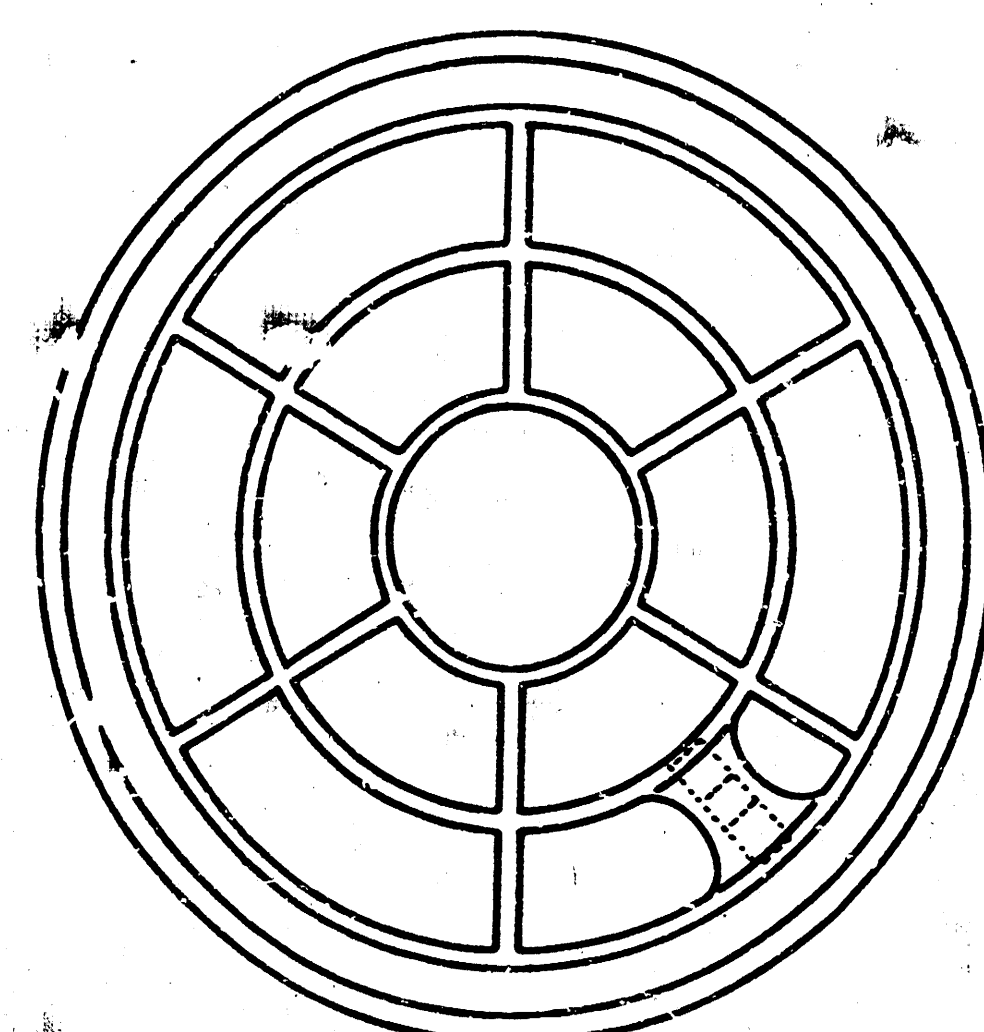
City of Wichita, Kansas

MANHOLE COVER

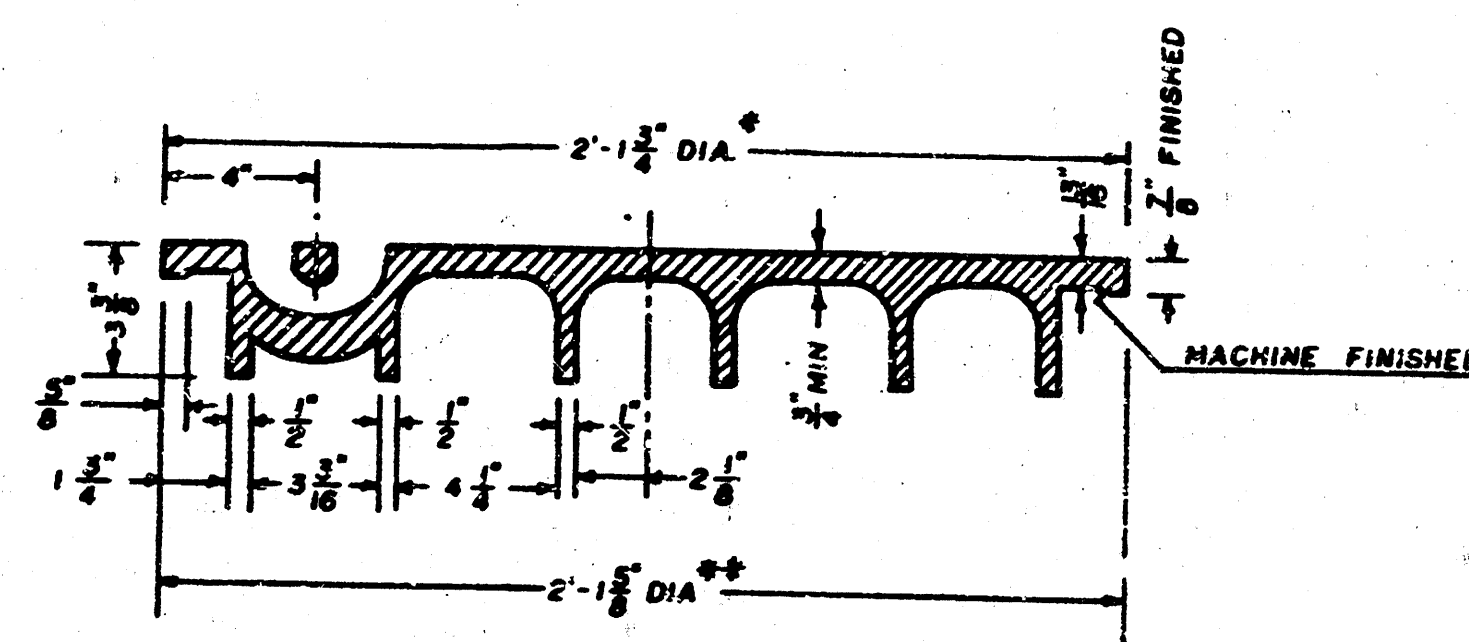
Weight: 180 Lbs.



TOP VIEW



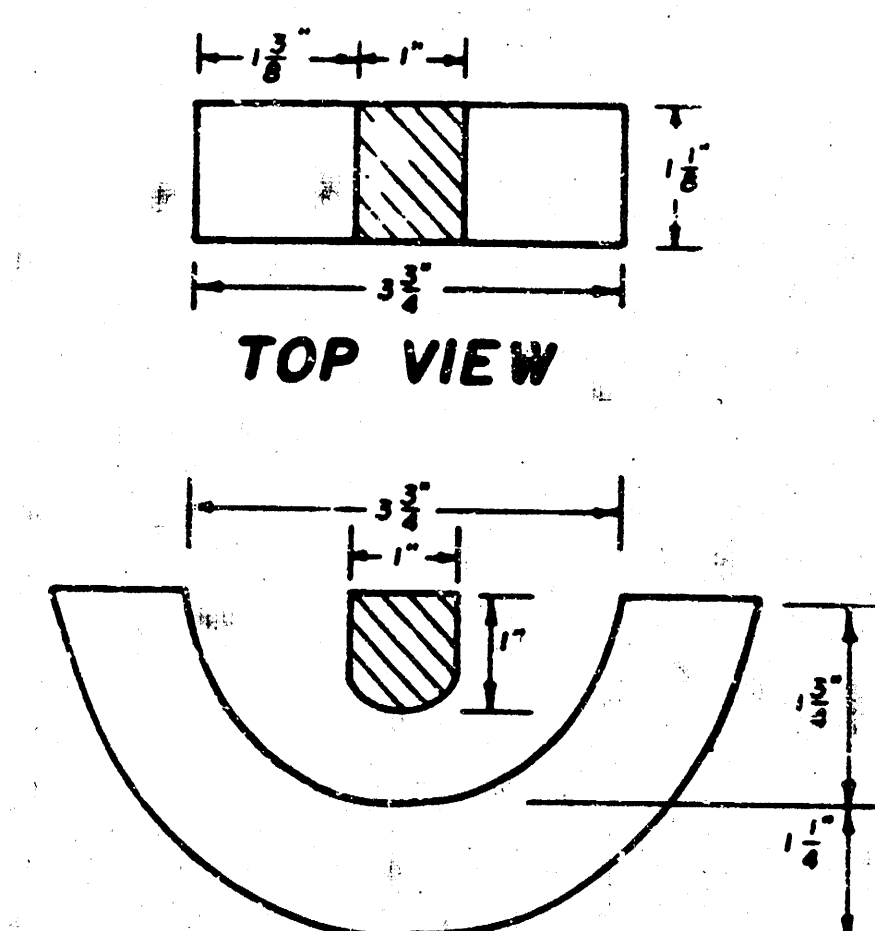
BOTTOM VIEW



SECTION VIEW

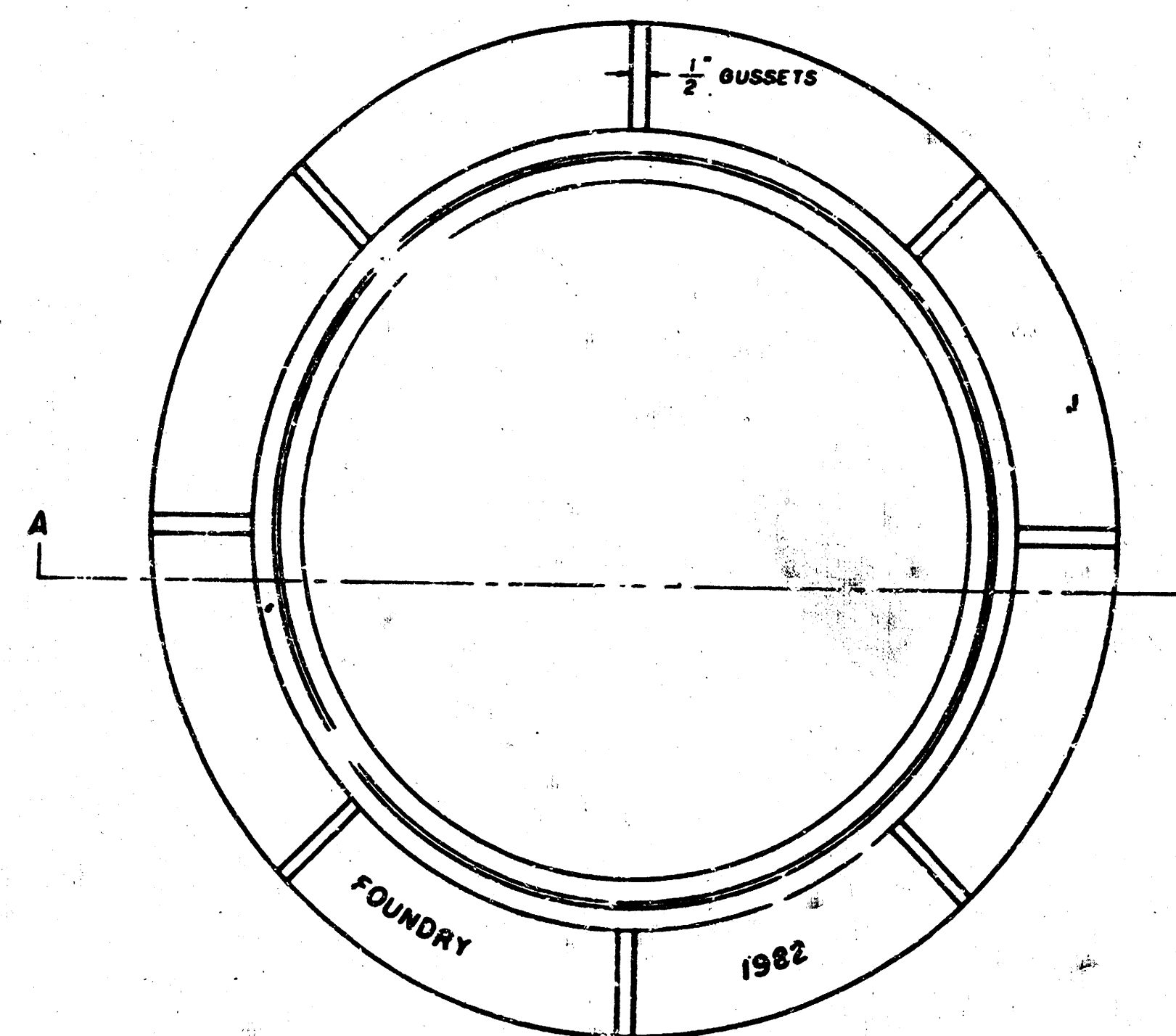
* OUTSIDE DIA. TOP OF COVER
** OUTSIDE DIA. BOTTOM OF COVER

PICKHOLE DETAIL

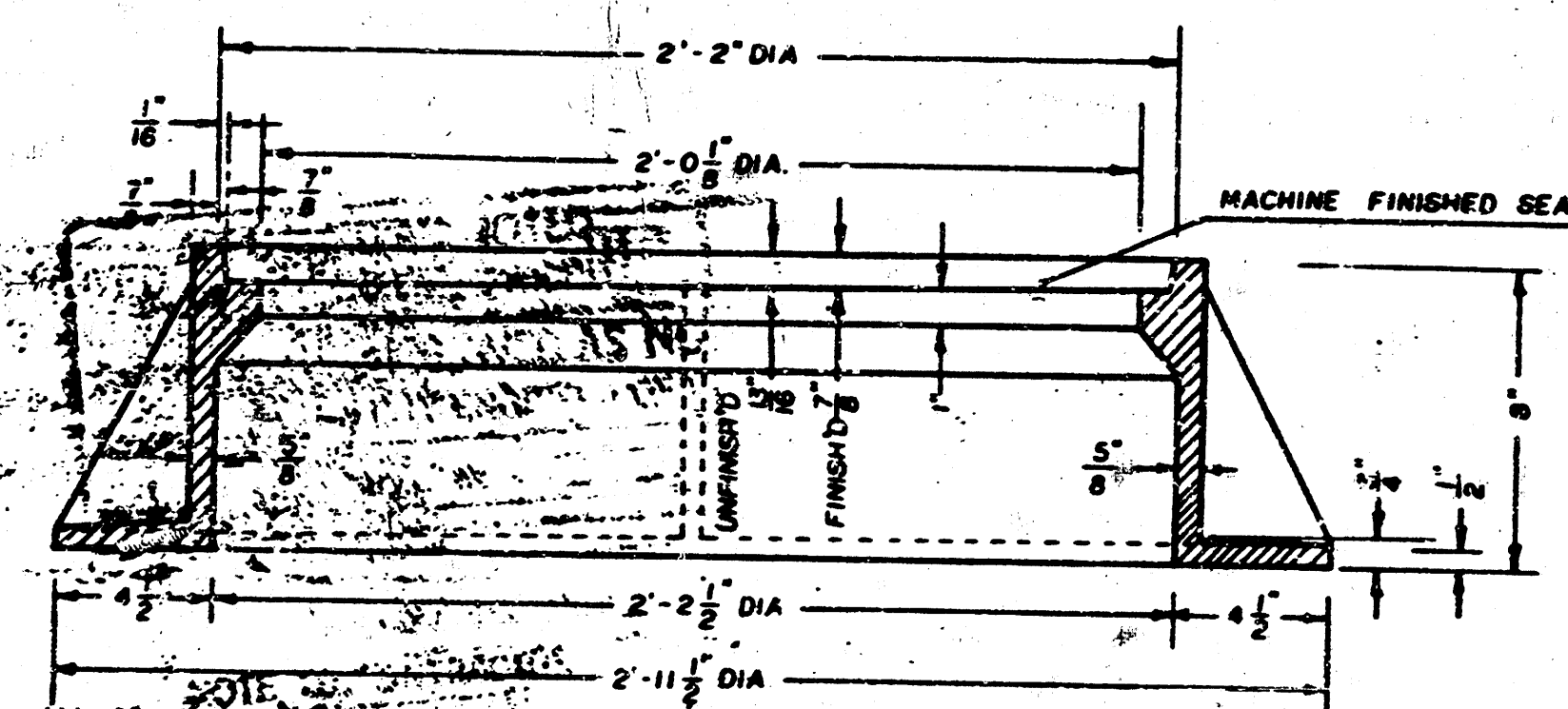


MANHOLE FRAME

Weight: 240 Lbs.



TOP VIEW



SECTION A-A

GENERAL NOTES

1. MANHOLE CASTINGS SHALL BE MANUFACTURED USING GOOD QUALITY GRAY IRON CONFORMING TO CLASS 30 OF A.S.T.M. DESIGNATION A-48. DIMENSIONS AND WEIGHTS SHOWN ON THE DETAILED DRAWINGS SHALL BE CONSIDERED AS MINIMUM REQUIREMENTS AND ANY DEVIATIONS FROM THE DIMENSIONS SHOWN MUST BE SPECIFICALLY APPROVED. THE FINISHED CASTINGS SHALL BE OF UNIFORM QUALITY, FREE FROM BLOWHOLES, POROSITY, HARD SPOTS, SHRINKAGE DISTORTIONS OR OTHER DEFECTS.
2. MANHOLE CASTINGS SHALL BE COATED WITH AN ASPHALT PAINT RESULTING IN A SMOOTH, TOUGH AND TENACIOUS COATING WHICH IS NOT BRITTLE OR TACKY.
3. MANHOLE CASTINGS SHALL BE MANUFACTURED SUCH THAT A COVER MANUFACTURED BY ANY ONE FOUNDRY WILL FIT INTERCHANGEABLY INTO A FRAME MANUFACTURED BY ANOTHER FOUNDRY AND STILL MEET ALLOWABLE CLEARANCES AND NON-ROCKING REQUIREMENTS. THIS WILL REQUIRE MANUFACTURING OF THE MATCHING FACES ON THE COVER AND THE FRAME TO CLOSE TOLERANCES.
4. THE OUTSIDE CIRCUMFERENCE OF THE VERTICAL FACE OF THE COVER AND THE INSIDE CIRCUMFERENCE OF THE VERTICAL FACE IN THE FRAME RECESS SHALL BE MANUFACTURED TO TOLERANCES SUCH THAT THE CLEARANCE BETWEEN THE COVER AND FRAME WILL NOT EXCEED 1/8" AT ANY POINT AROUND THE CIRCUMFERENCE OF THE COVER. THE SEATING SURFACES BETWEEN THE COVER AND FRAME SHALL BE MACHINED SUCH THAT THESE SURFACES SHALL MAKE FULL CONTACT FOR THEIR FULL CIRCUMFERENCE TO PRECLUDE THE COVER FROM ROCKING IN THE FRAME.
5. THE MANHOLE FRAME AND COVER SHALL BE MARKED WITH LETTERING INDICATING THE NAME OF THE MANUFACTURER AND THE YEAR WHEN THE COVER OR FRAME WAS CAST. THE COVER SHALL BE FURTHER IDENTIFIED WITH REGARDS TO OWNERSHIP USING LETTERS AT LEAST 1" IN HEIGHT. THIS IDENTIFICATION SHALL BE "CITY OF WICHITA SEWER DEPARTMENT". THE WORD DEPARTMENT MAY BE ABBREVIATED. THE TEXTURE OF THE TOP SURFACE OF THE COVER SHALL BE MANUFACTURED IN A CHECKERED PATTERN DESIGN AS INDICATED ON THE DRAWINGS. SMOOTH BLOCKOUTS SHALL BE UTILIZED TO HIGHLIGHT THE LETTERING ON THE COVER SURFACE. THE TOTAL AREA OF SMOOTH SURFACE BLOCKOUT SHALL NOT EXCEED THE AREA AS INDICATED ON THE DRAWING. POSITIONING OF SMOOTH BLOCKOUTS AND LETTERING MAY VARY FROM THAT SHOWN ON THE DETAILED DRAWING.