

STREET IMPROVEMENTS FOR LACLEDE AVENUE

FROM THE NORTH LINE OF TAFT TO THE SOUTH LINE OF UNIVERSITY AVENUE

PROJECT NUMBER

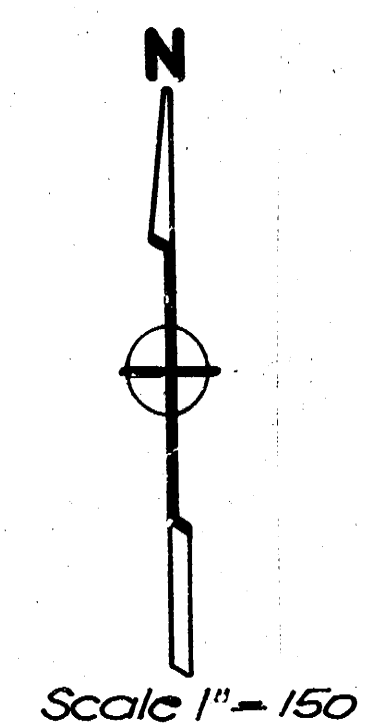
472-76-245-81759-000-000-001

CITY OF WICHITA, KANSAS

MICHAEL E. LINDEBAK CITY ENGINEER

INDEX OF SHEETS

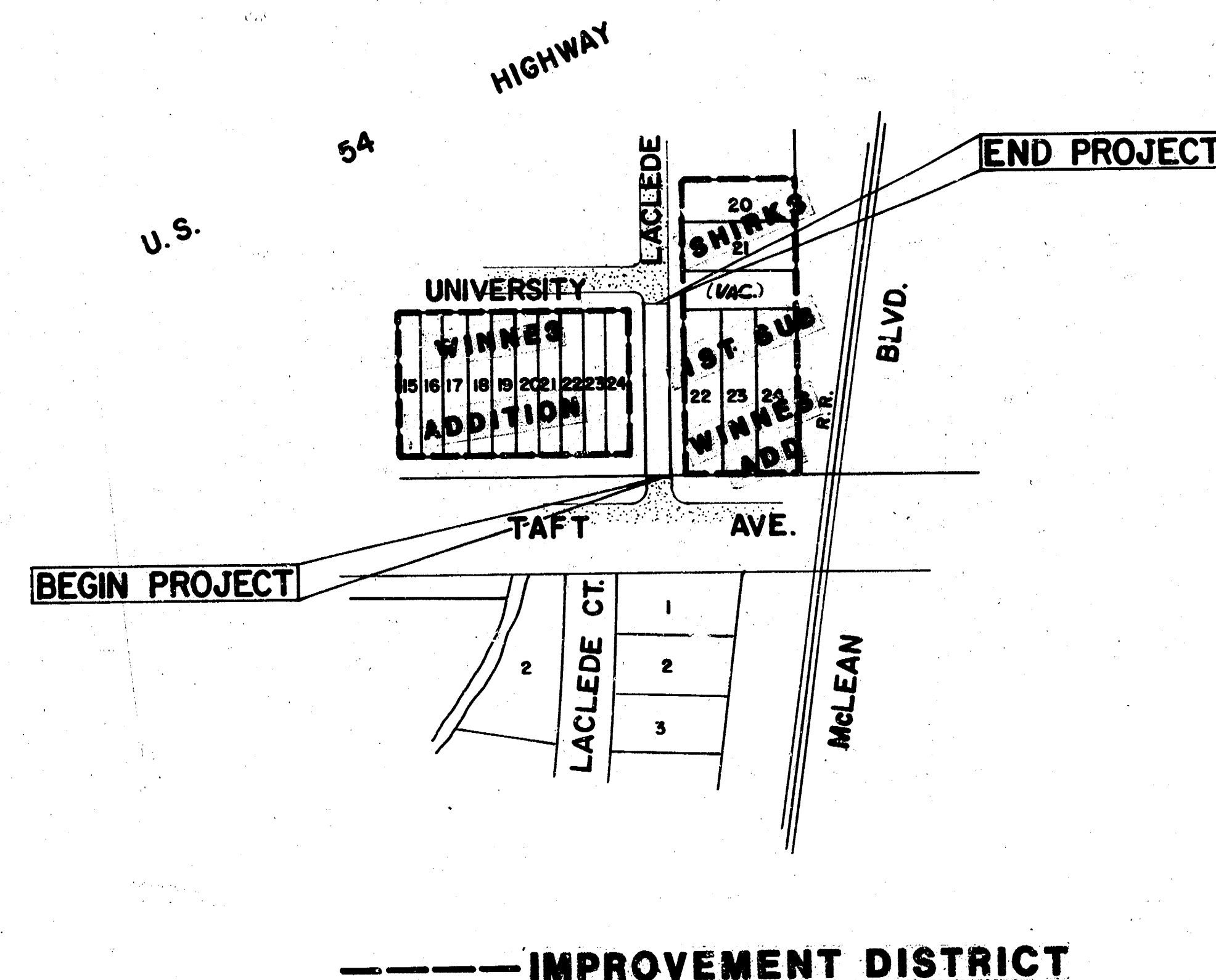
Title Sheet	1
Typical Pavement Section 7" A.C. (31')	2
Typical Pavement Section 7" A.C. (28')	3
Street Improvements; Laclede Ave	4
Plan & Profile; Incidental Drainage	5
Std. Type II Curb Inlet Typical	6
Drop Inlet Detail	7
Manhole Adjustment Detail	8
Earthwork Sections	9



BENCH MARKS

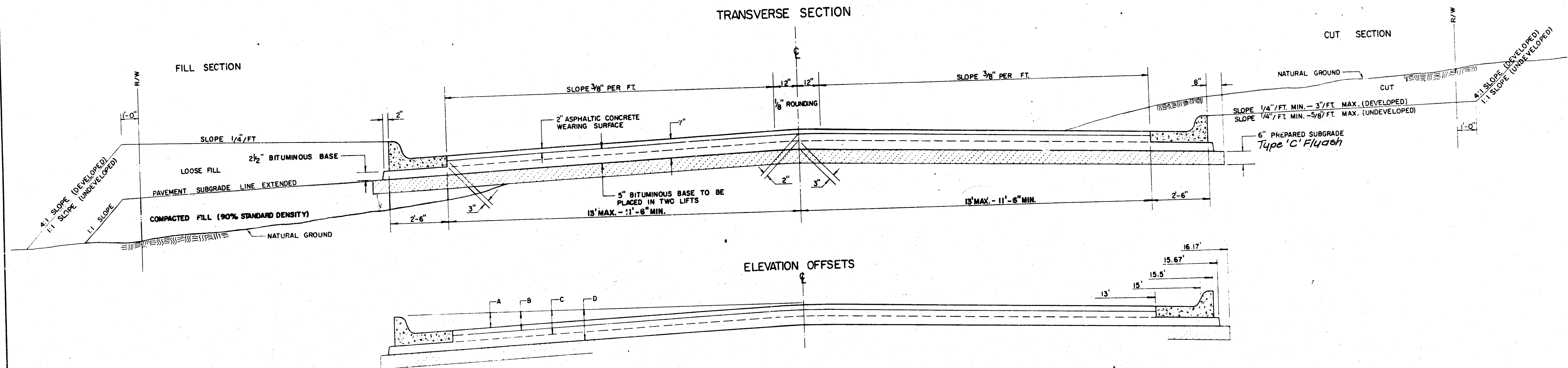
Bench Mark: 6' Cut Top Curb East end of Northeast
Curb Return @ Taft and Laclede Avenue
Elev. 110.00 City Datum

Bench Mark: 6' Cut Top Curb North end of Curb Return,
Sta. 2+27.16 @ Laclede and University Ave.
Elev. 107.18 City Datum



Note: Width Tapers from 31' @ Sta. 0+0.3 to 28' @ Sta. 1+25

TRANSVERSE SECTION



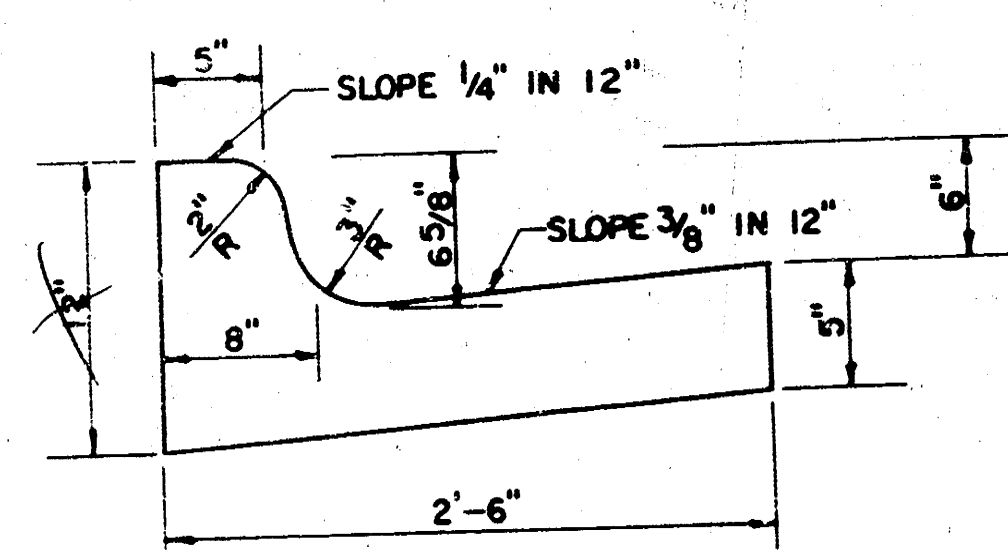
ELEVATION OFFSETS

Note: Table Values to be used @ 31' Width only

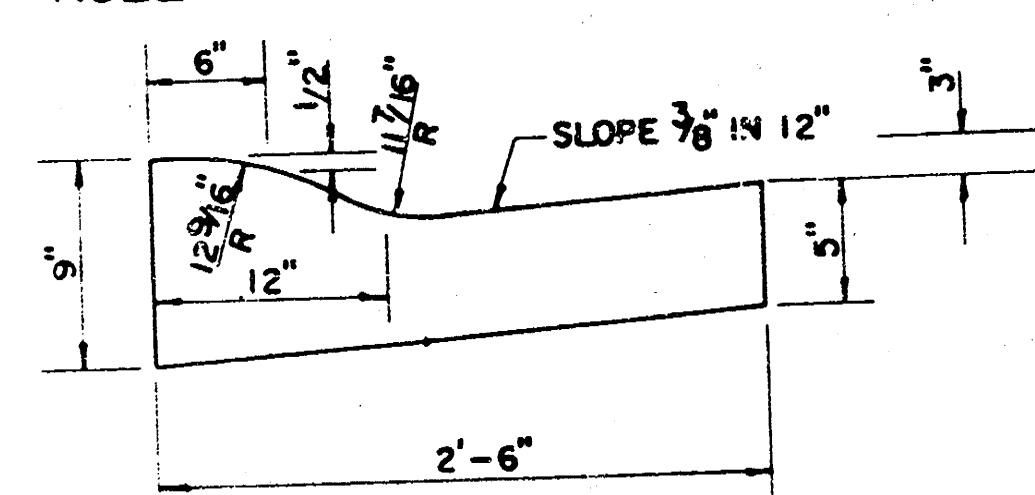
Note: Table Values to be used @ 31' Width only

	DISTANCE FROM CENTERLINE (LT. & RT.)											
	0'	2'	4'	6'	7.5'	10'	12'	13'	15'	15.5'	15.67'	16.17'
A: TOP OF CURBS TO TOP OF SURFACE LIFT	0.10	0.14	0.21	0.27	0.32	0.39	0.46	0.49	—	—	—	—
B: TOP OF CURBS TO TOP OF UPPER BASE LIFT	0.27	0.31	0.38	0.44	0.49	0.56	0.63	0.66	—	—	—	—
C: TOP OF CURBS TO TOP OF LOWER BASE LIFT	0.44	0.49	0.57	0.64	0.70	0.79	0.87	0.90	0.98	1.00	1.00	—
D: TOP OF CURBS TO TOP OF SUBGRADE	0.69	0.73	0.80	0.87	0.93	1.01	1.08	1.12	1.19	1.21	1.21	1.23

COMBINED CURB & GUTTER



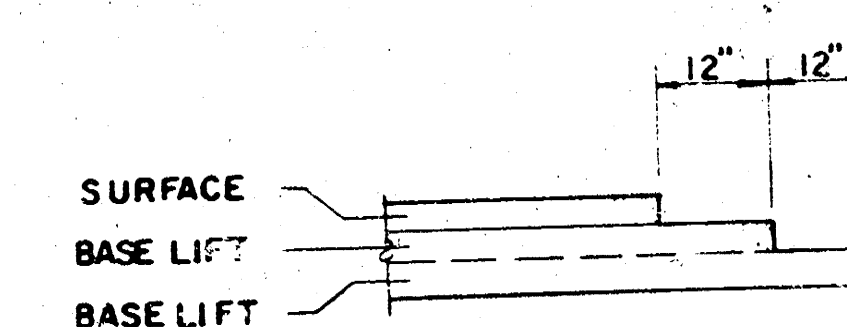
ROLL TYPE COMBINED CURB & GUTTER



GENERAL NOTES

- 1) THE ASPHALTIC CONCRETE PAVEMENT BETWEEN THE COMBINED CURB AND GUTTER SHALL BE PAID AS SQUARE YARDS OF 7" ASPHALTIC CONCRETE (5" BITUMINOUS BASE).
- 2) THE BITUMINOUS BASE UNDER AND BEHIND THE COMBINED CURB AND GUTTER SHALL BE PAID AS SQUARE YARDS OF 2 1/2" BITUMINOUS BASE.
- 3) A TACK COAT OF EMULSIFIED ASPHALT (SC-IH OR CSS-IH) SHALL BE APPLIED AT AN APPROXIMATE RATE OF 0.05 GALLONS PER SQUARE YARD BETWEEN EACH LIFT OF ASPHALTIC MATERIAL..
- 4) BITUMINOUS BASE AND ASPHALTIC CONCRETE WEARING SURFACE SHALL BE PLACED WITH A LAYDOWN MACHINE HAVING AUTOMATIC CONTROLS FOR LINE AND GRADE.
- 5) CONSTRUCTION JOINTS IN EACH LIFT SHALL BE STAGGERED A MINIMUM DISTANCE OF ONE (1) FOOT FROM JOINTS IN PRECEDING LIFTS AND PLACED SO THAT A JOINT WILL BE CONSTRUCTED ON THE CENTERLINE OF THE TOP LIFT.
- 6) CONTRACTOR TO BID ONLY ONE SUBGRADE TREATMENT ALTERNATE WHEN ALTERNATES ARE PROVIDED IN THE PROPOSAL AND CONTRACT. THE ALTERNATE CHOSEN BY THE SUCCESSFUL BIDDER SHALL BE USED IN CONSTRUCTING THIS PROJECT.

TRANSVERSE CONSTRUCTION JOINTS



TRANSVERSE CONSTRUCTION JOINTS SHALL BE CONSTRUCTED WITH FLEXIBLE BASE PAVEMENTS AT LOCATIONS WHERE PAVEMENTS EXISTING FLEXIBLE BASE PAVEMENT AS SHOWN BY THE PLANS. ALL COSTS ASSOCIATED WITH THE CONSTRUCTION OF THE TRANSVERSE JOINT SHALL BE INCLUDED IN THE BID PRICE FOR THE 6" YARDS 7" ASPHALTIC CONCRETE (5" BITUMINOUS BASE).

7 INCH RESIDENTIAL ASPHALTIC CONCRETE
PAVEMENT WITH 5 INCH BITUMINOUS BASE

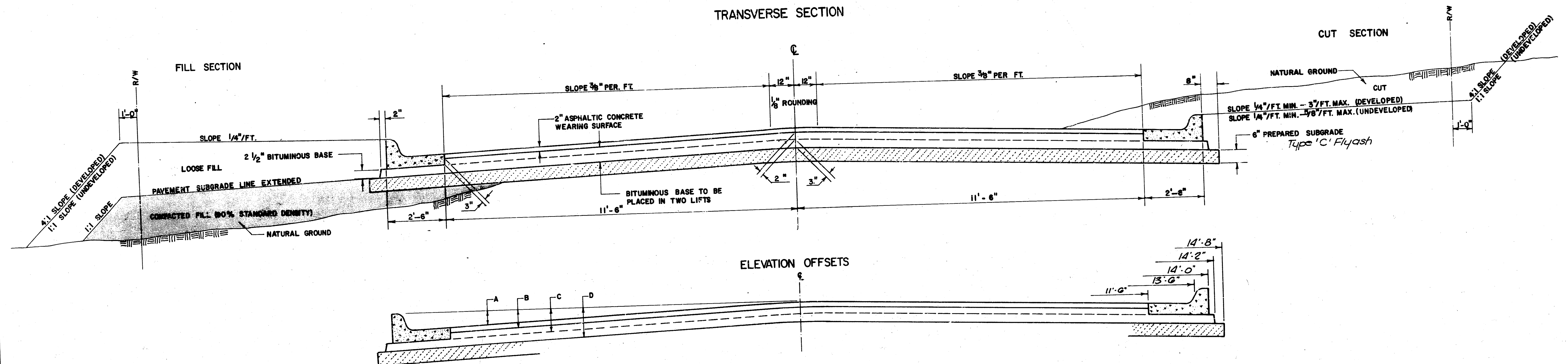
CITY OF WICHITA, KANSAS

PROJECT NUMBER

472-76-245-81759-000-000-00!

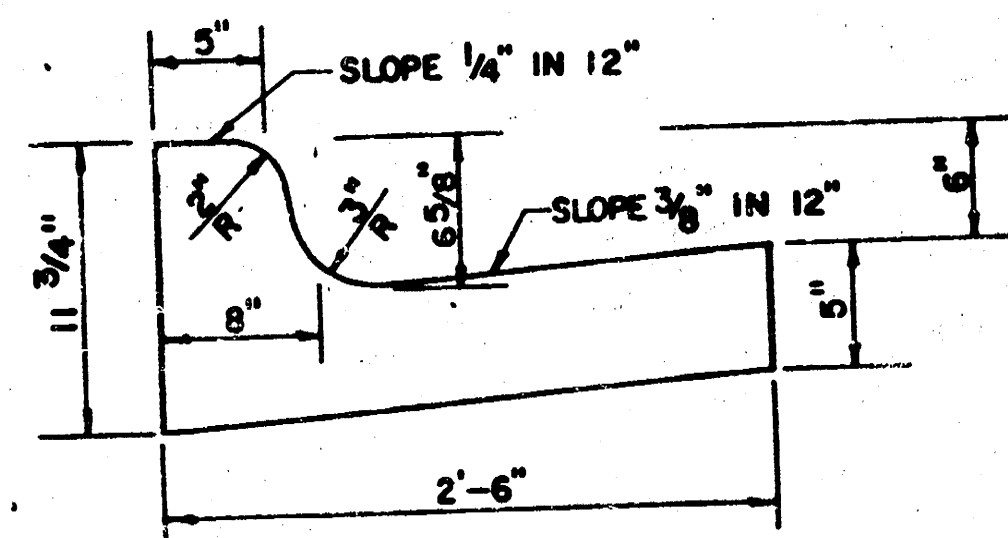
2
9

TYPICAL 28' PAVEMENT DETAILS STA. 1+25 TO 1+73.5

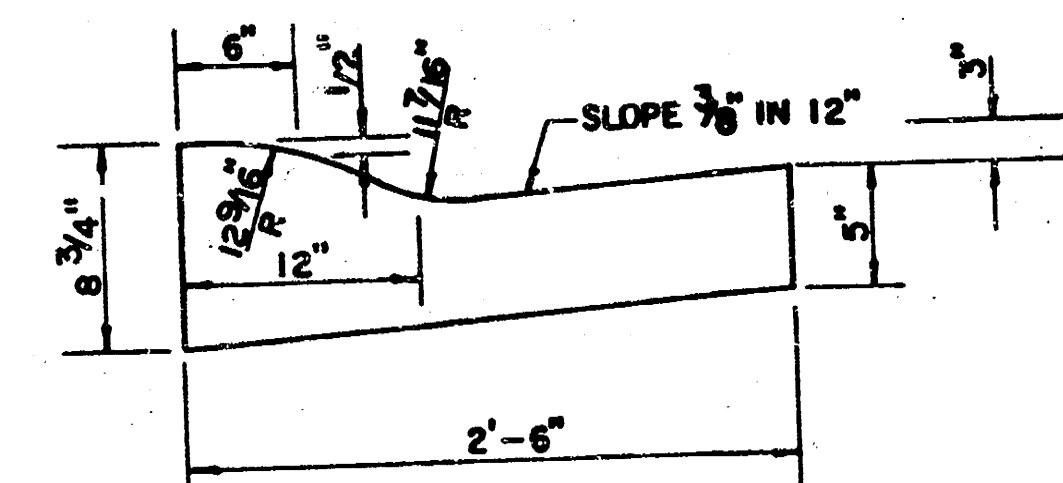


	DISTANCE FROM CENTERLINE (LT. & RT.)												
	0'	2'	4'	6'	7'	8'	10'	11'-6"	13'-6"	14'-0"	14'-2"	14'-8"	
A: TOP OF CURBS TO TOP OF SURFACE LIFT	0.15	0.20	0.27	0.33	0.36	0.39	0.43	0.50	—	—	—	—	
B: TOP OF CURBS TO TOP OF UPPER BASE LIFT	0.32	0.37	0.44	0.50	0.53	0.56	0.65	0.67	—	—	—	—	
C: TOP OF CURBS TO TOP OF LOWER BASE LIFT	0.49	0.56	0.63	0.71	0.76	0.79	0.86	0.92	0.99	1.01	1.01	—	
D: TOP OF CURBS TO TOP OF SUBGRADE	0.74	0.80	0.87	0.94	0.97	1.01	1.08	1.13	1.20	1.22	1.22	1.24	

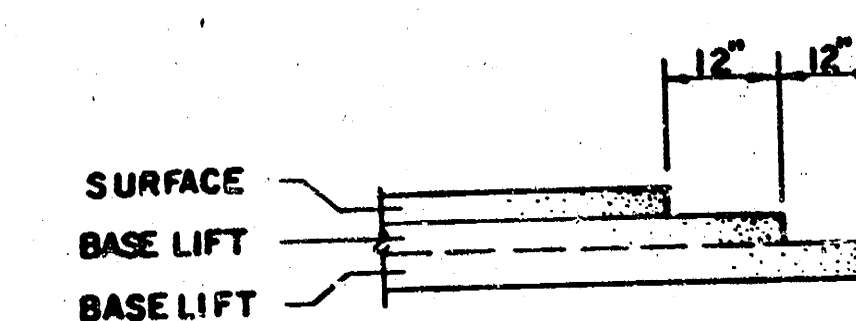
COMBINED CURB & GUTTER



ROLL TYPE COMBINED CURB & GUTTER



TRANSVERSE CONSTRUCTION JOINTS



TRANSVERSE CONSTRUCTION JOINTS SHALL BE CONSTRUCTED IN FLEXIBLE BASE PAVEMENTS AT LOCATIONS WHERE PAVEMENT JOINTS EXISTING FLEXIBLE BASE PAVEMENT AS SHOWN BY THE DETAIL. ALL COSTS ASSOCIATED WITH THE CONSTRUCTION OF THE TRANSVERSE JOINT SHALL BE INCLUDED IN THE BID PRICE FOR SQUARE YARDS 7" ASPHALTIC CONCRETE (5" BITUMINOUS BASE).

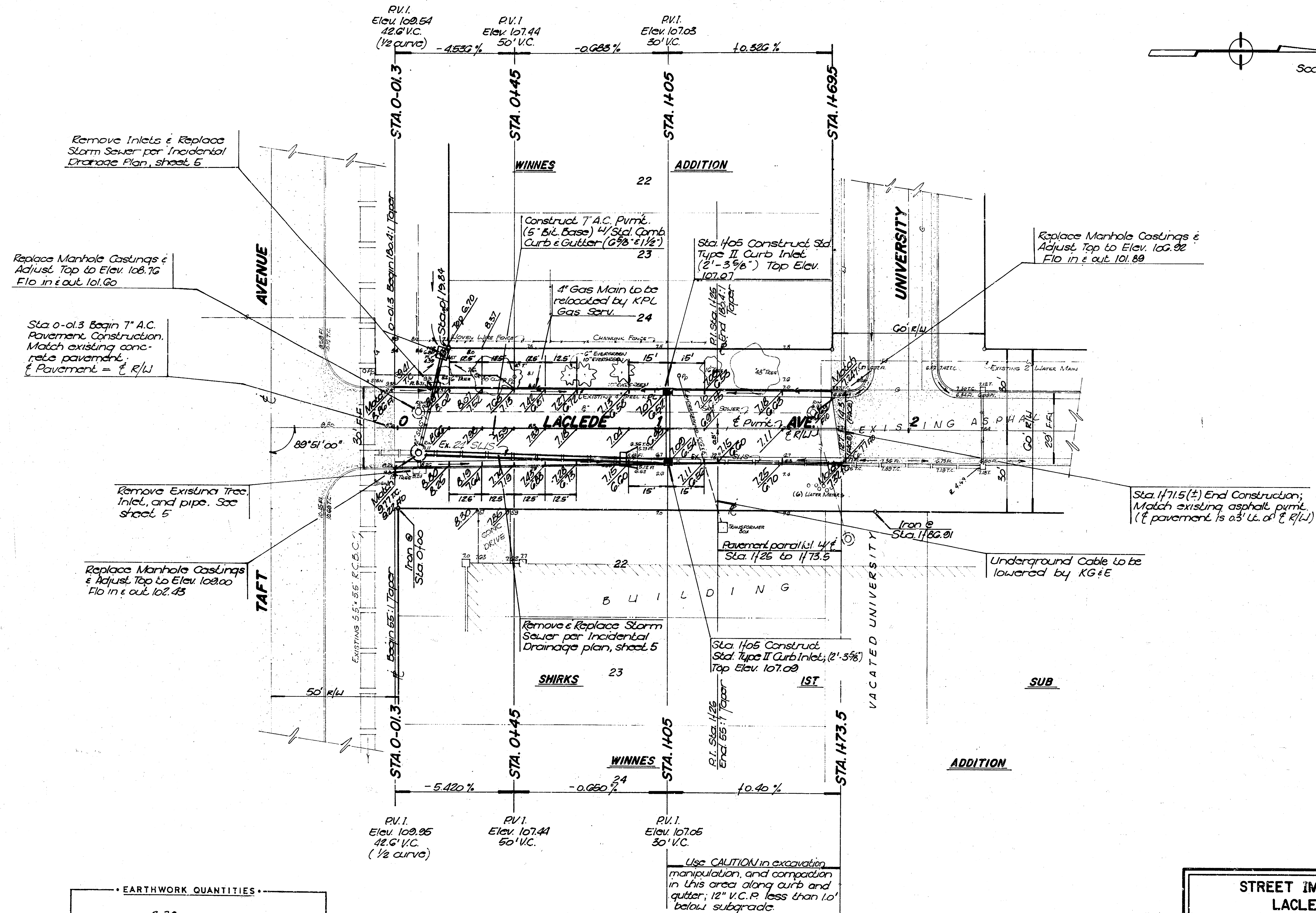
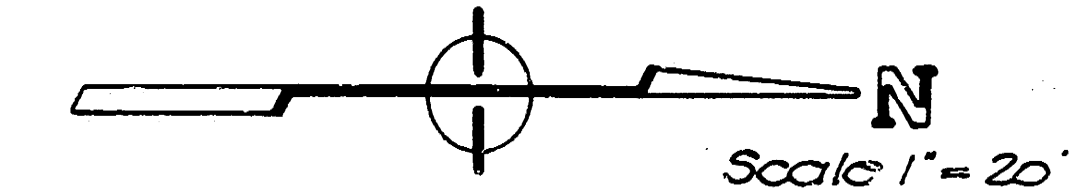
GENERAL NOTES

- 1) THE ASPHALTIC CONCRETE PAVEMENT BETWEEN THE COMBINED CURB AND GUTTER SHALL BE PAID AS SQUARE YARDS OF 7" ASPHALTIC CONCRETE (5" BITUMINOUS BASE).
- 2) THE BITUMINOUS BASE UNDER AND BEHIND THE COMBINED CURB AND GUTTER SHALL BE PAID AS SQUARE YARDS OF 2 1/2" BITUMINOUS BASE.
- 3) A TACK COAT OF EMULSIFIED ASPHALT (SC-1H OR CSS-1H) SHALL BE APPLIED AT AN APPROXIMATE RATE OF 0.05 GALLONS PER SQUARE YARD BETWEEN EACH LIFT OF ASPHALTIC MATERIAL.
- 4) BITUMINOUS BASE AND ASPHALTIC CONCRETE WEARING SURFACE SHALL BE PLACED WITH A LAYDOWN MACHINE HAVING AUTOMATIC CONTROLS FOR LINE AND GRADE.
- 5) CONSTRUCTION JOINTS IN EACH LIFT SHALL BE STAGGERED A MINIMUM DISTANCE OF ONE (1) FOOT FROM JOINTS IN PRECEDING LIFTS AND PLACED SO THAT A JOINT WILL BE CONSTRUCTED ON THE CENTERLINE OF THE TOP LIFT.
- 6) CONTRACTOR TO BID ONLY ONE SUBGRADE TREATMENT ALTERNATE WHEN ALTERNATES ARE PROVIDED IN THE PROPOSAL AND CONTRACT. THE ALTERNATE CHOSEN BY THE SUCCESSFUL BIDDER SHALL BE USED IN CONSTRUCTING THIS PROJECT.

7 INCH RESIDENTIAL ASPHALTIC CONCRETE
PAVEMENT WITH 5 INCH BITUMINOUS BASE
CITY OF WICHITA, KANSAS
PROJECT NUMBER
472-76-245-81759-000-000-001

Bench Mark: "a" Cut Top Curb East end of Northeast Curb Return @ Taft and Laclede Ave Elev. 110.69 City Datum

Bench Mark: "a" Cut Top Curb North end of Curb Return, Sta. 2+27.15' left, e Laclede and University Ave. Elev. 107.18 City Datum

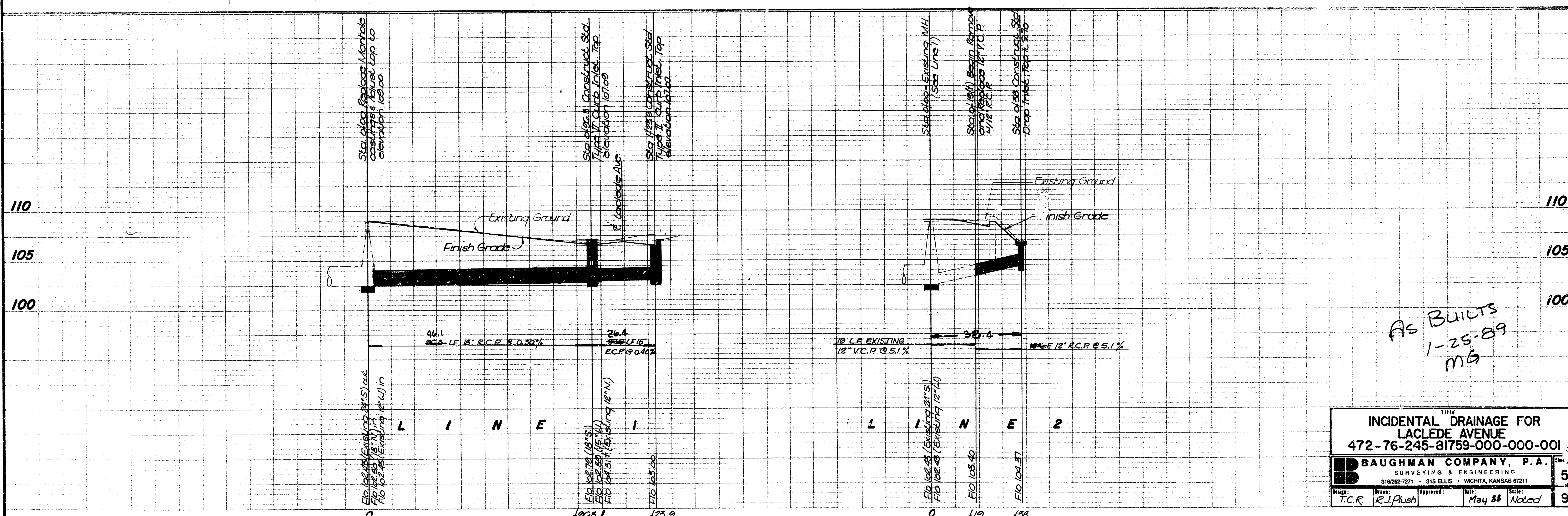
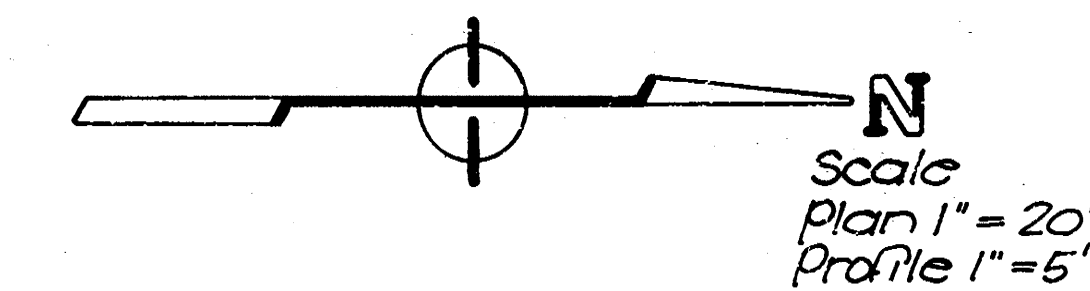


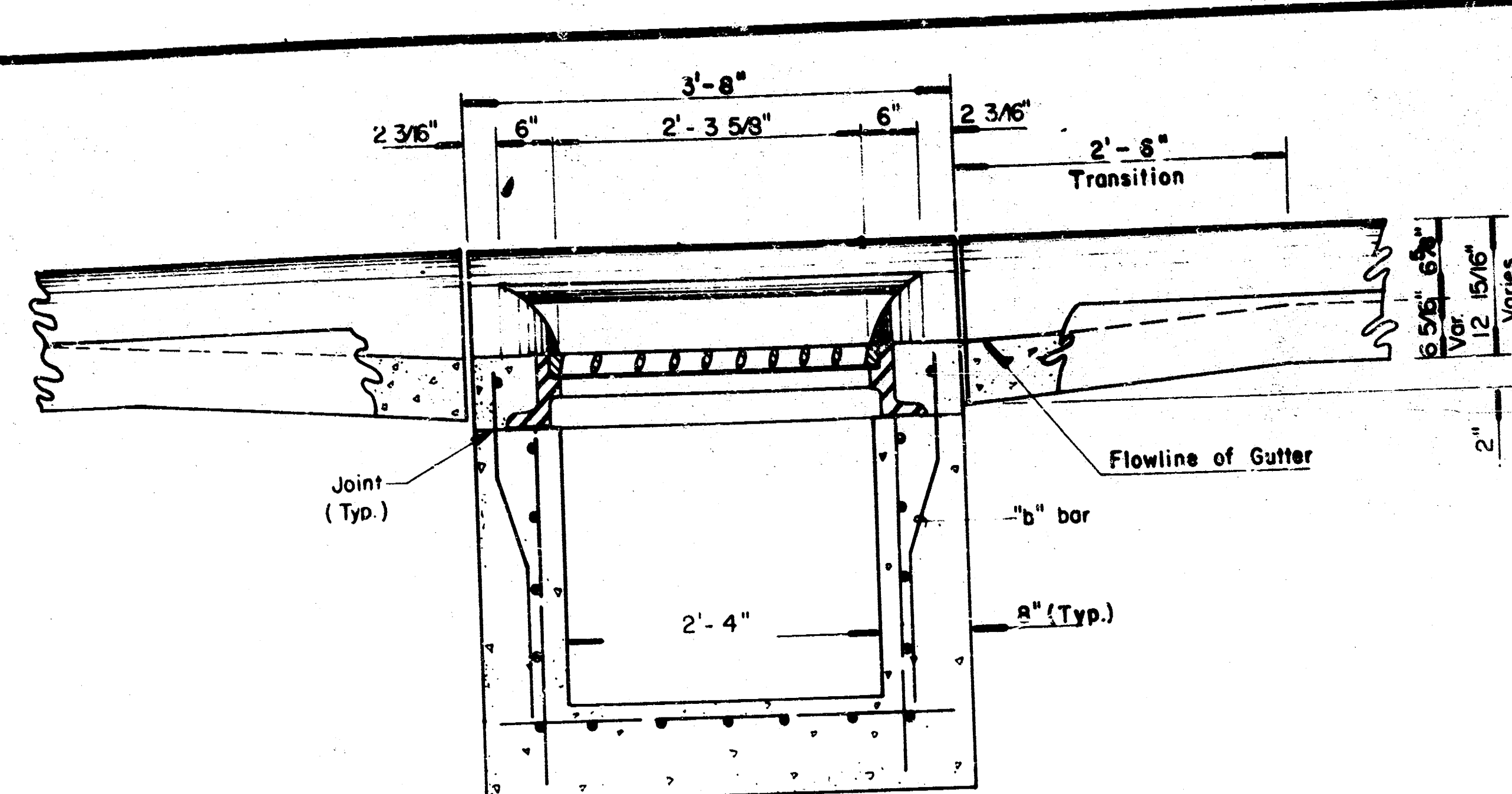
EARTHWORK QUANTITIES			
Excavation	207.3 cy	Compacted Fill	0 cy
+10%	20.7	+10%	0
Total	228.0 cy	Total	0 cy
Subgrade Manipulation	584.2 sy		
Borrow Material	0 cy		

NOTE: Any sawing of existing pavement to facilitate new construction will not be paid for directly and is to be considered as subsidiary to the pay items of work identified in the proposal.

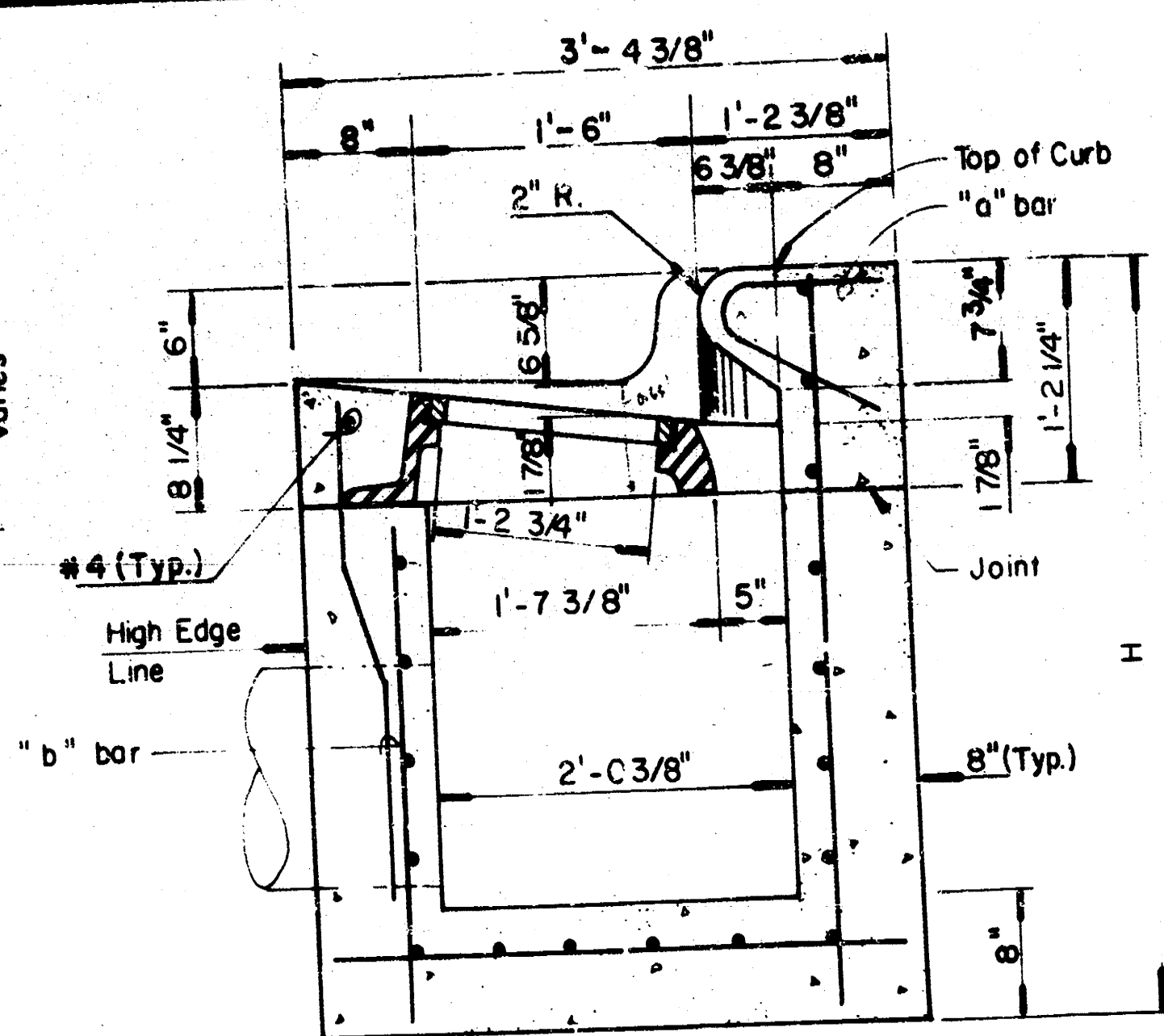
STREET IMPROVEMENTS FOR LACLEDE AVENUE					
BAUGHMAN COMPANY P. A. SURVEYING & ENGINEERING 315/262-7271 • 315 ELLIS • WICHITA, KANSAS 67211				REV.	
PROJECT NUMBER				SHEET 4/9	
472-76-245-81759-000-000-001				OF 9	
DESIGN	DRAWN	APPROVED	DATE	SCALE	
T.C.R.	R.J. Plush		May 88	1" = 20'	

Bench Mark: '□' Cut Top Curb North end of Curb Return,
Sta. 2+27.15' (at 2, @ Lockeds and University Ave.
Elev. 107.18 City Datum

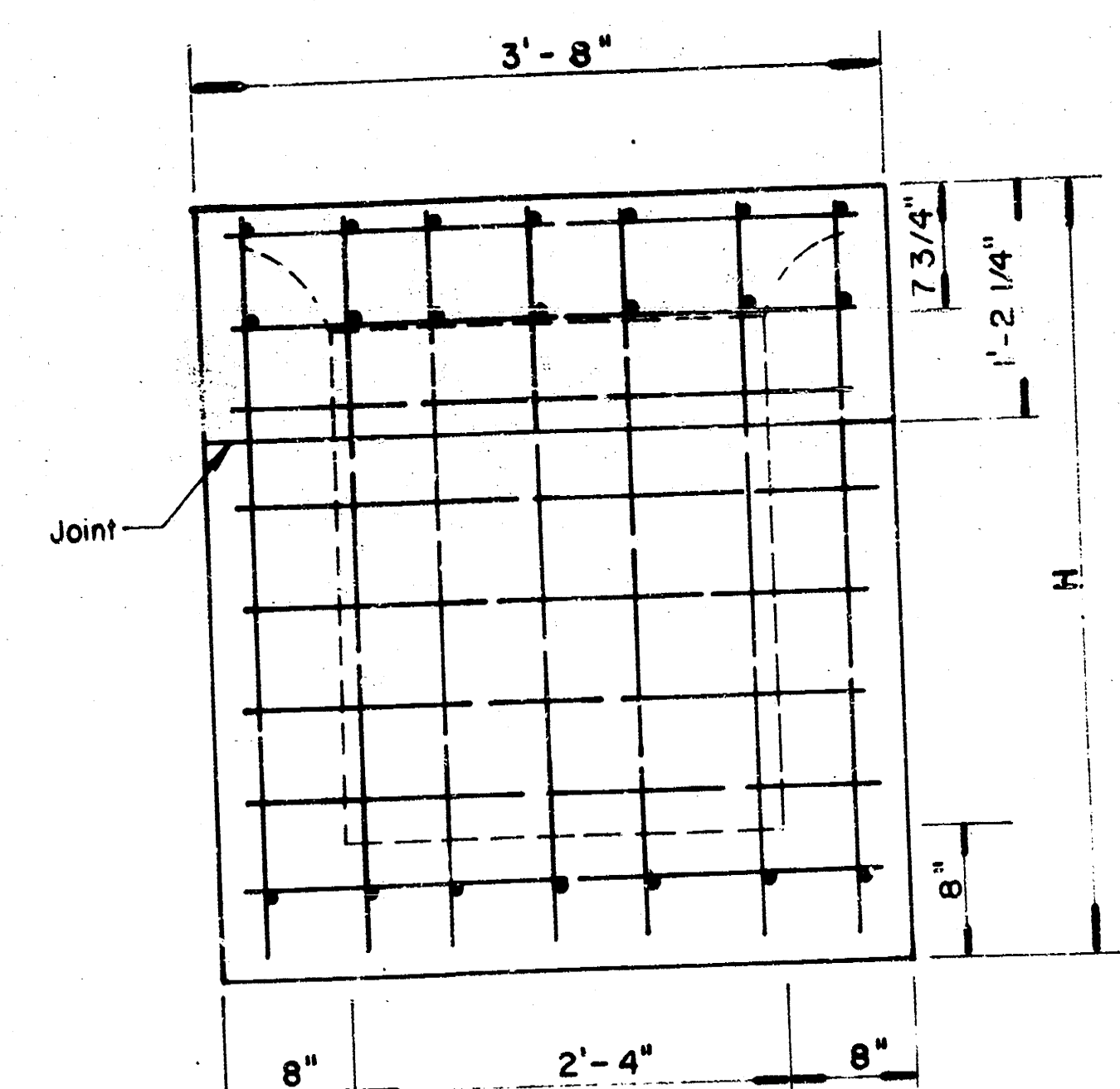




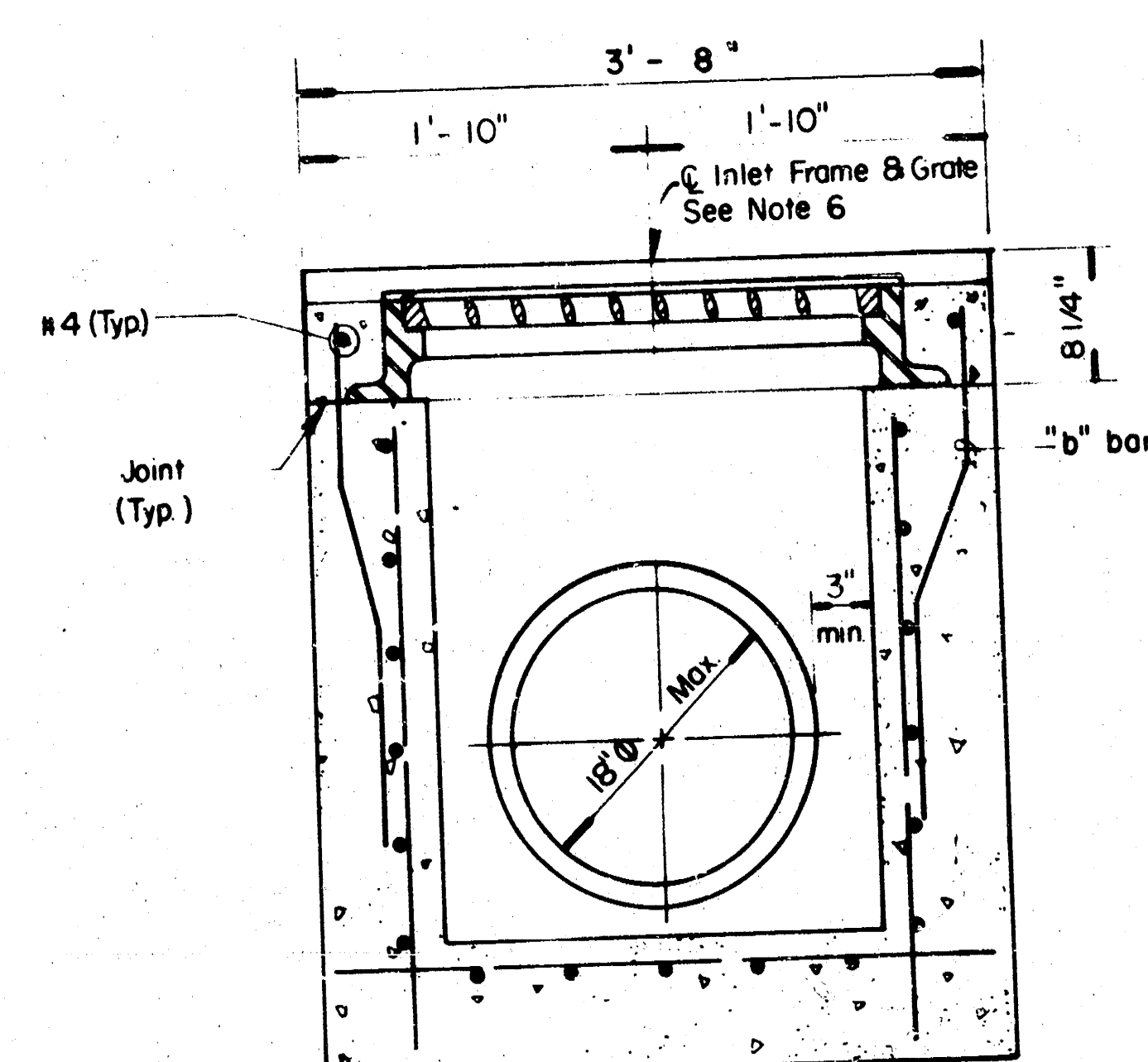
SECTION C-C



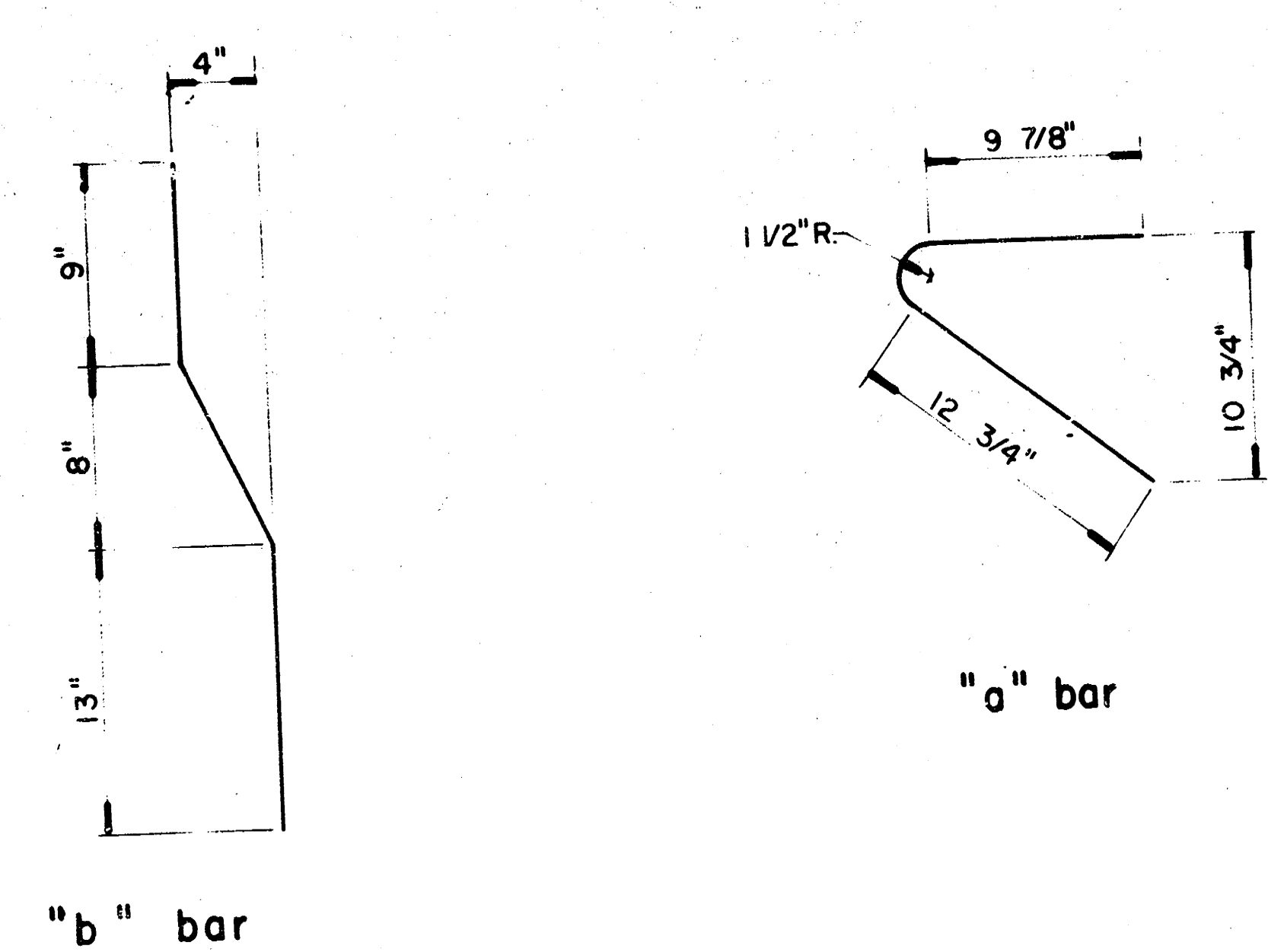
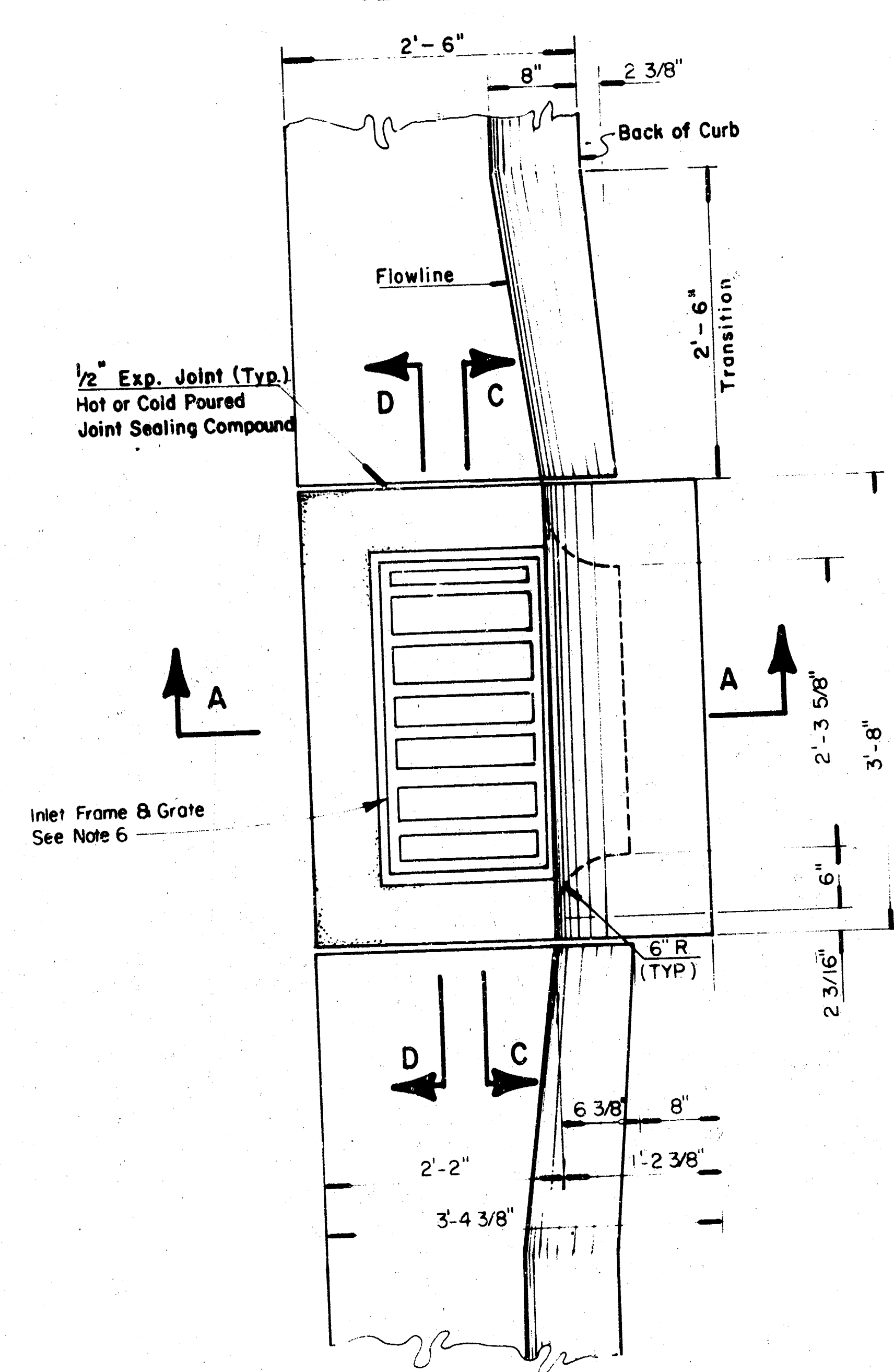
SECTION A-A



REAR WALL



SECTION D-D



BENDING DIAGRAM

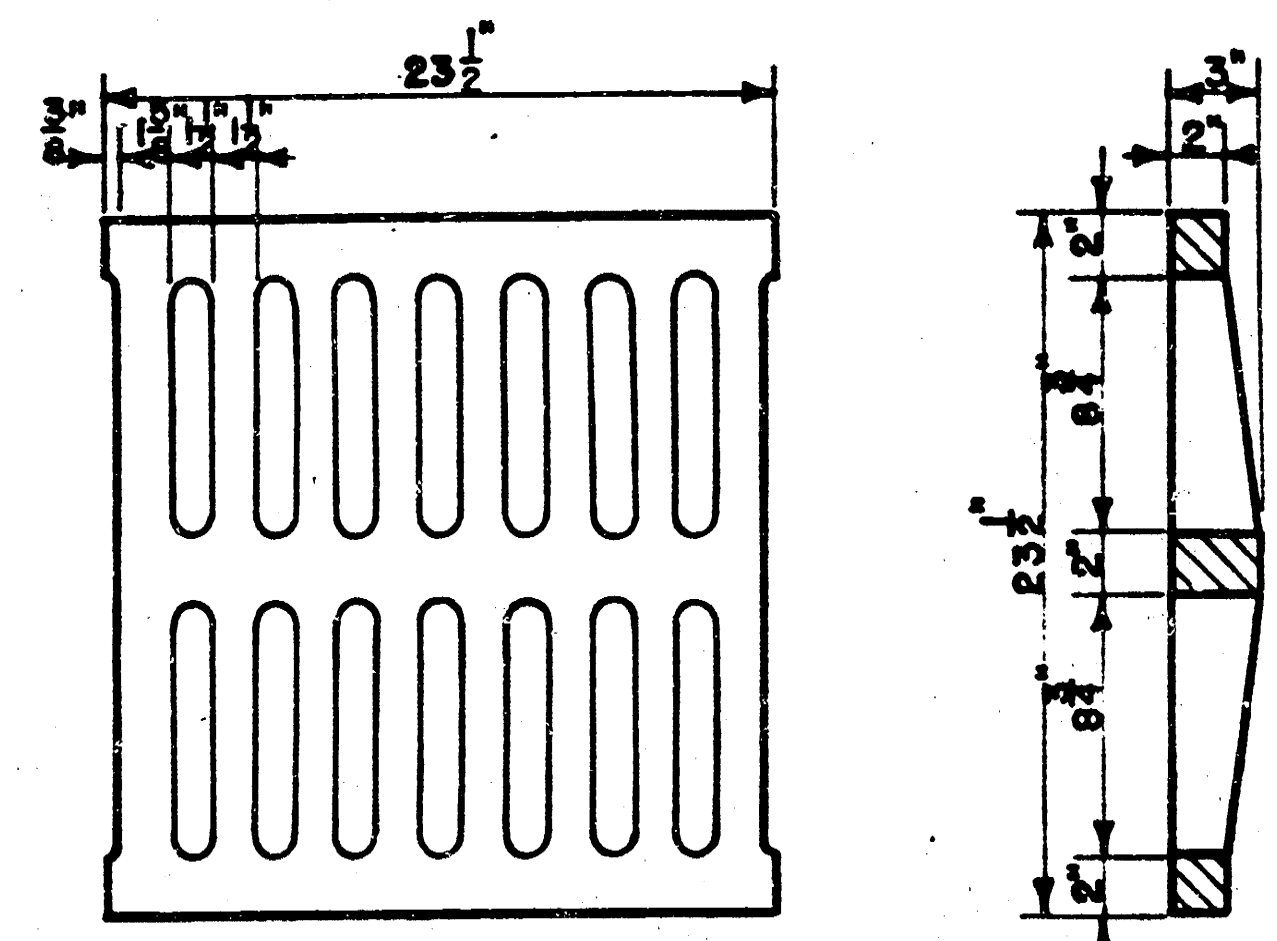
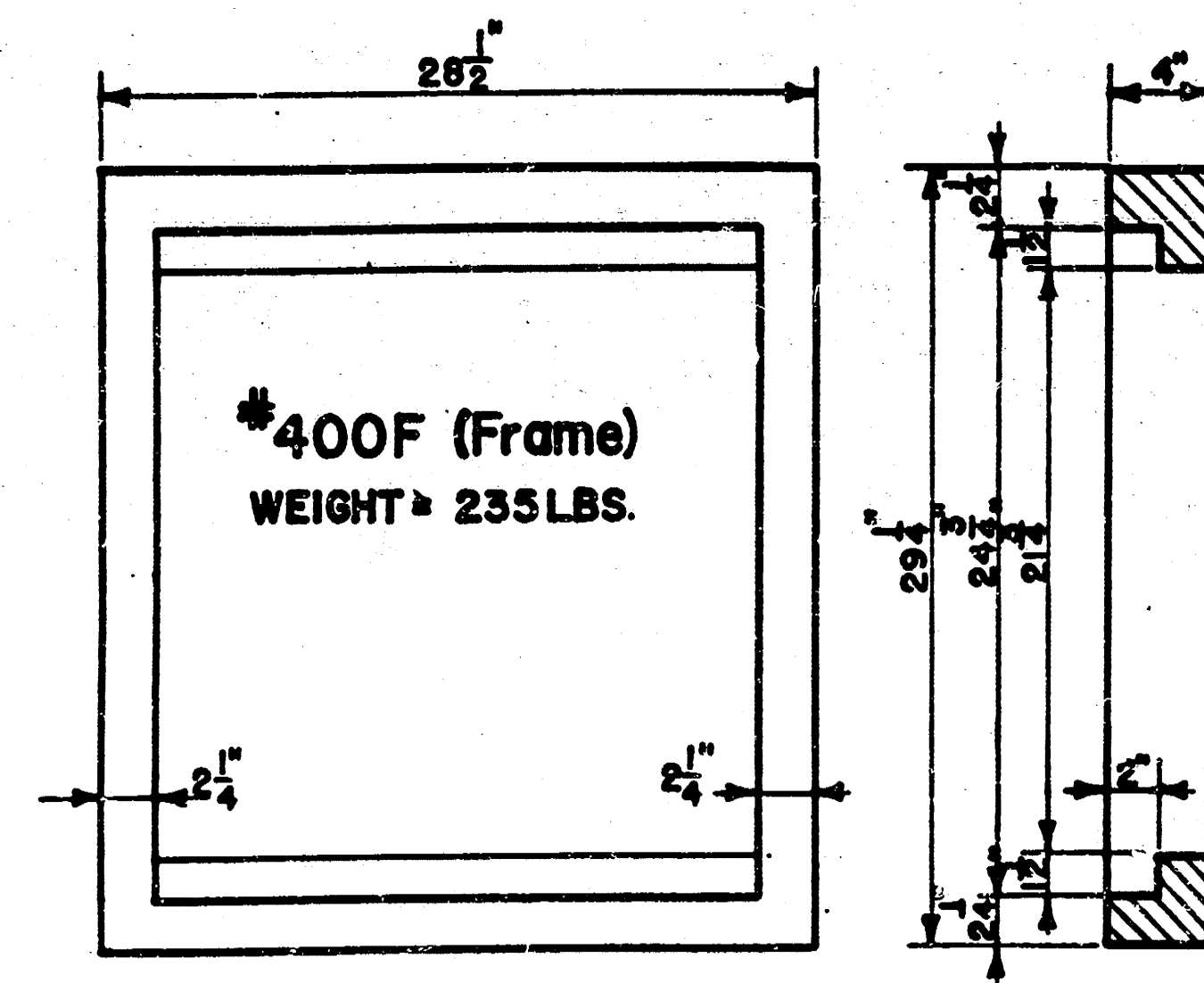
GENERAL NOTES:

1. Use the concrete mix specified for the City of Wichita concrete pavement throughout. All exposed edges shall be finished with an edging tool. Reinforcing bars shall be bent around pipe.
2. Inlet invert shall be shaped with 8 sack mix concrete to create flow channels and to increase hydraulic efficiency such that the inlet will be self cleaning between all inlet and/or outlet pipes.
3. All bars are #4 with 6" spacing and shall have a minimum clearance of 1 1/2 inches unless otherwise noted on the plans.
4. When directed by the Engineer, a small opening may be required in the back of the inlet in order to drain a low area. Reinforcing bars will extend through the openings. No deductions in concrete quantities will be made for these openings.
5. No deductions will be made in pay length of curb, gutter, or curb and gutter through the inlet area.
6. Use Neenah R-3289 HV Single Inlet Frame and Grate or approved equal. Inlet frame to be proof load tested to 40,000 lbs on unsupported side.
7. Reinforcing bars shall be cut or bent around pipes. No deduction in concrete quantities shall be made for pipe openings.
8. The vanes of the grate shall be oriented with respect to the flow arrows shown on the plans.

DETAIL STANDARD TYPE II CURB INLET

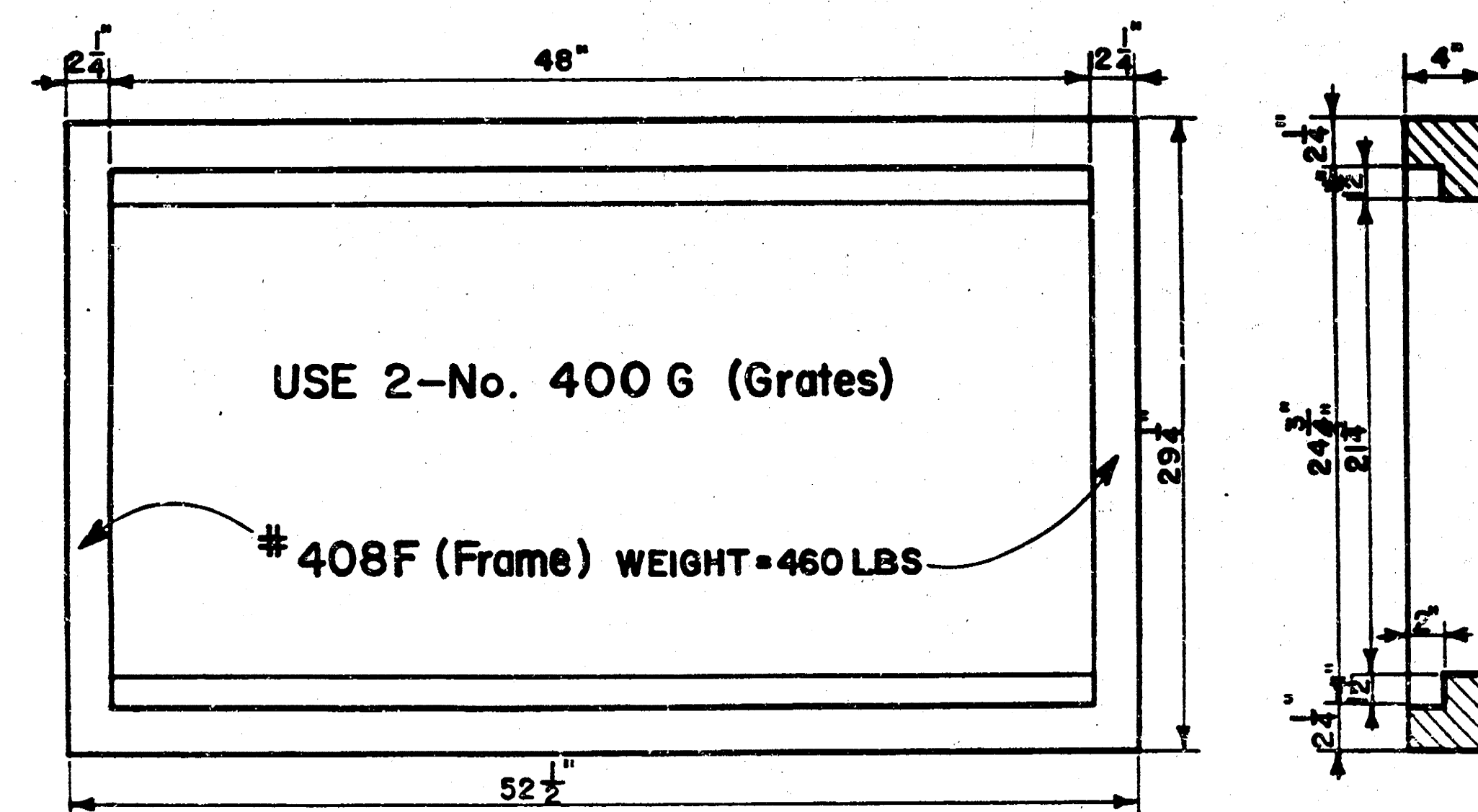
CITY OF WICHITA, KANSAS
INLET OPENING = 6"x2'-3 5/8"
472-76-245-81759-000-000-001
JANUARY, 1987

6/9
6
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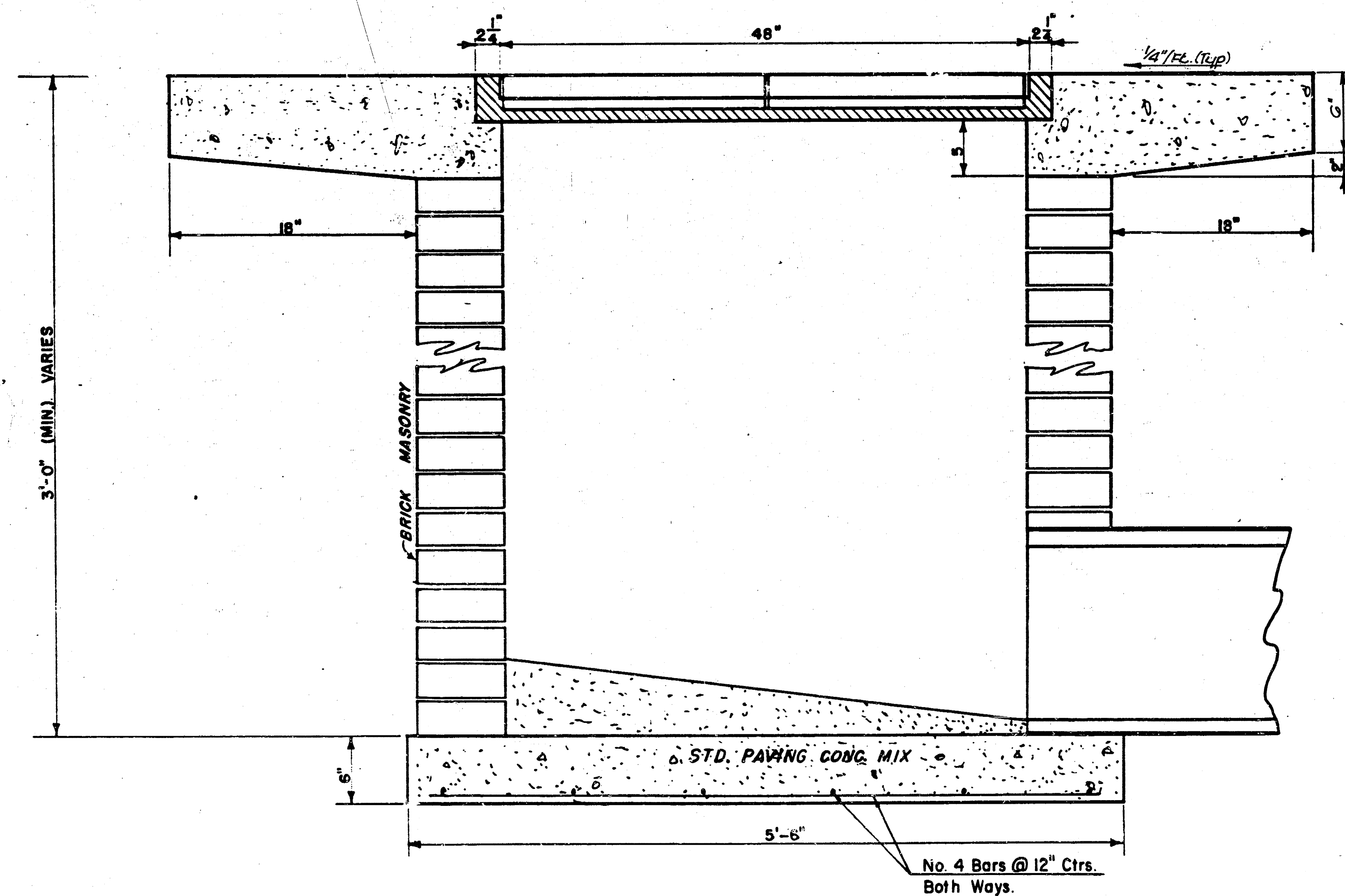
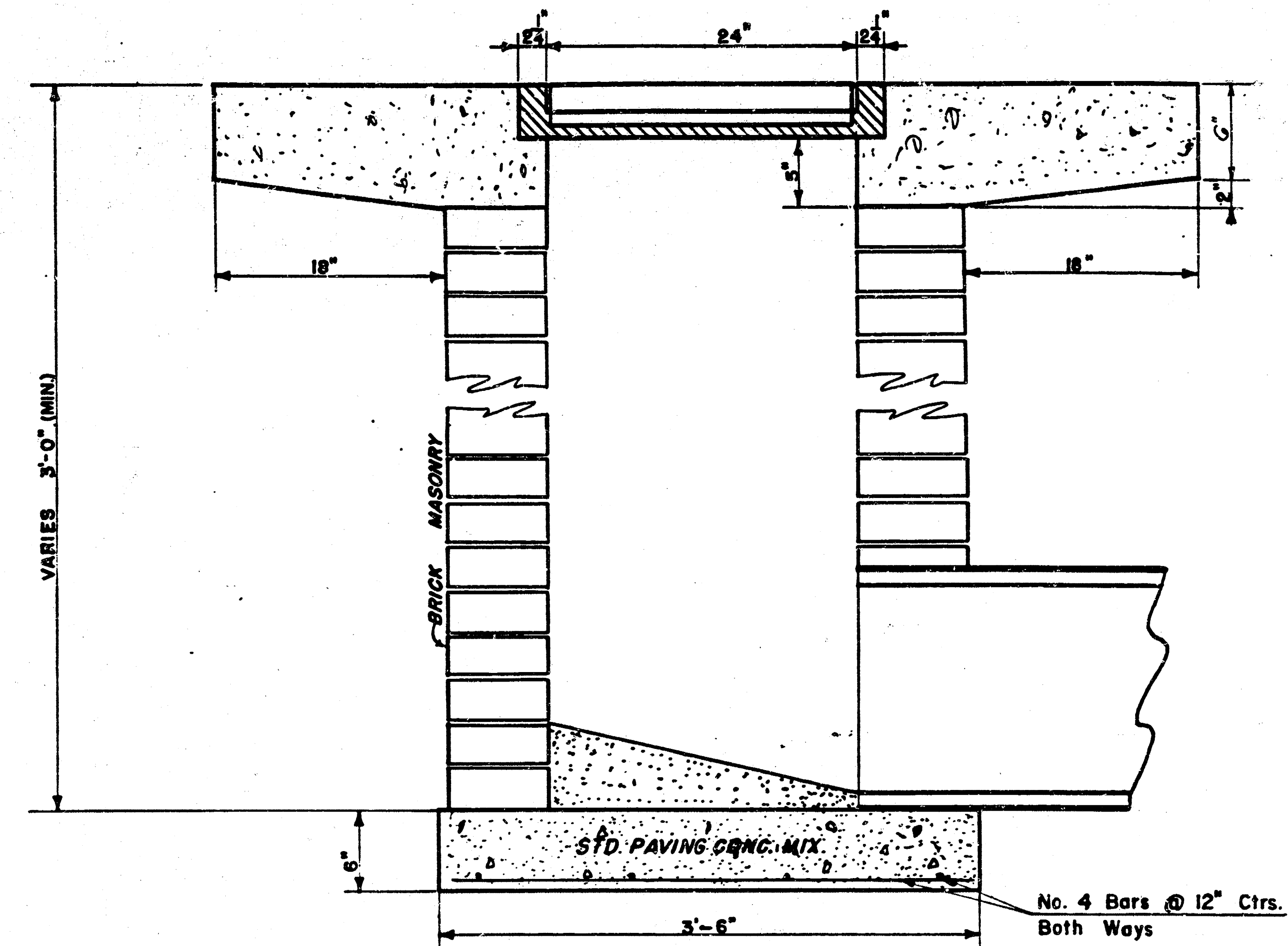
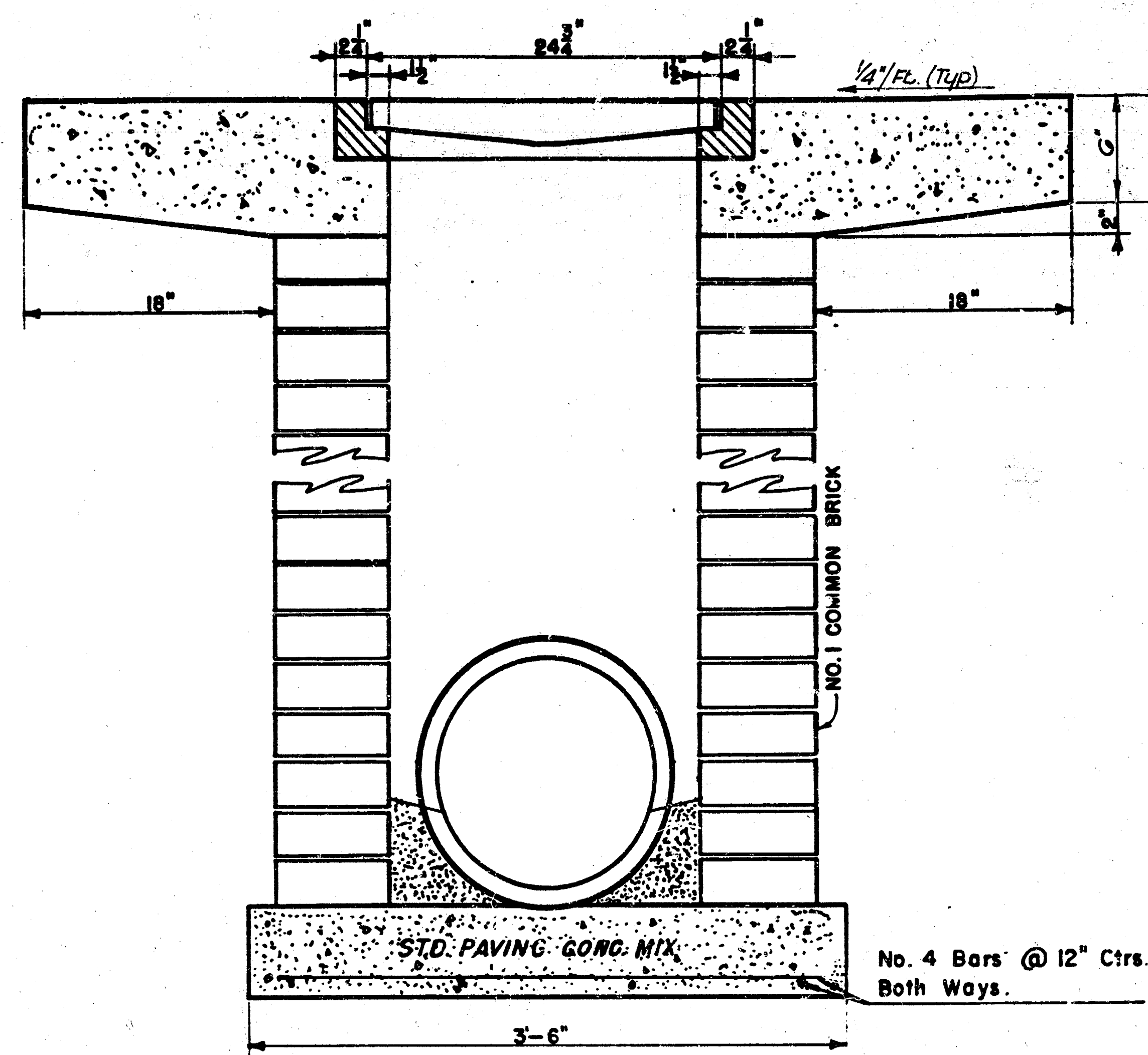


400G (Grate)
WEIGHT = 235 LBS

24"x24" Frame & Grate Detail



Double 24"x24" Frame Detail



DROP INLET DETAILS

M.E. Lindebak, City Engineer
City of Wichita, Kansas

Project

Project No.
472-76-245-81759-000-000-001

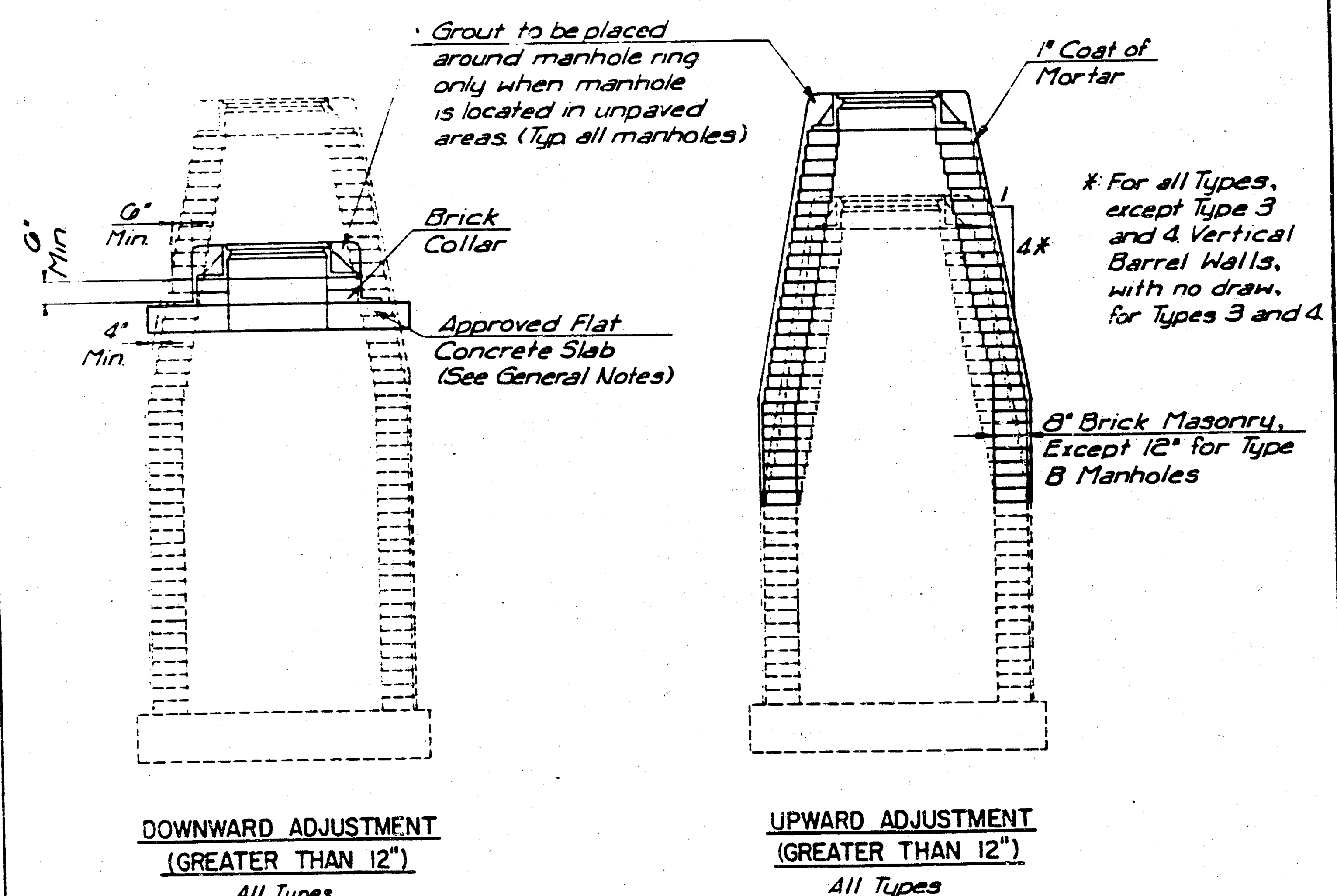
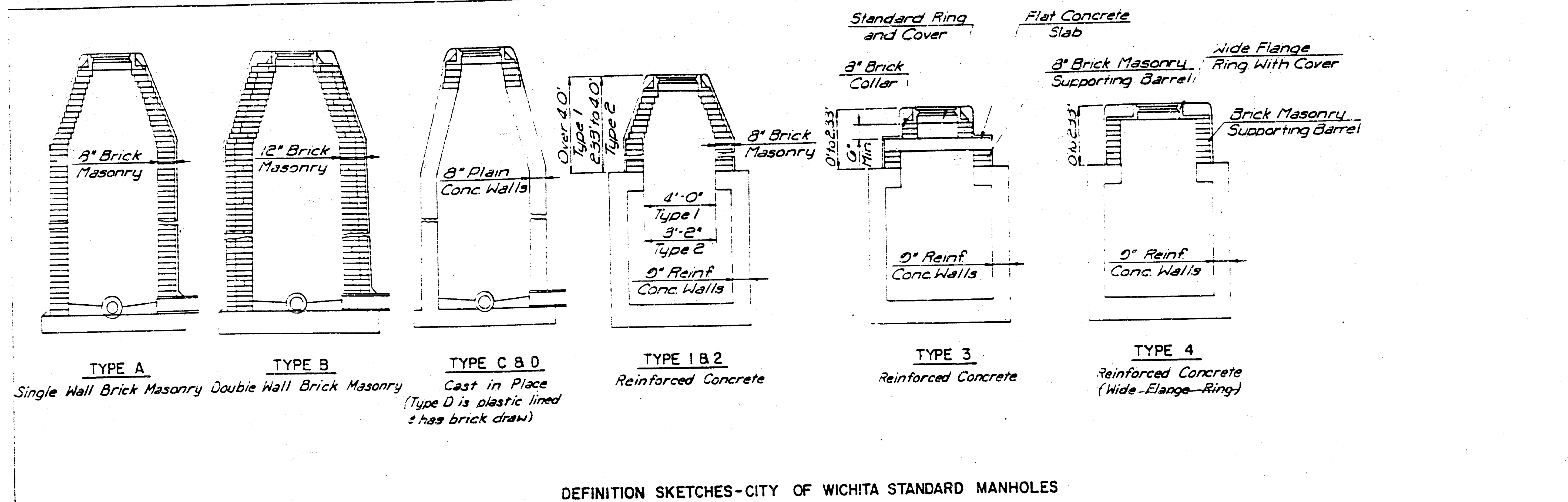
Date:

Scale: 1-1/2" = 1'-0"

7/9

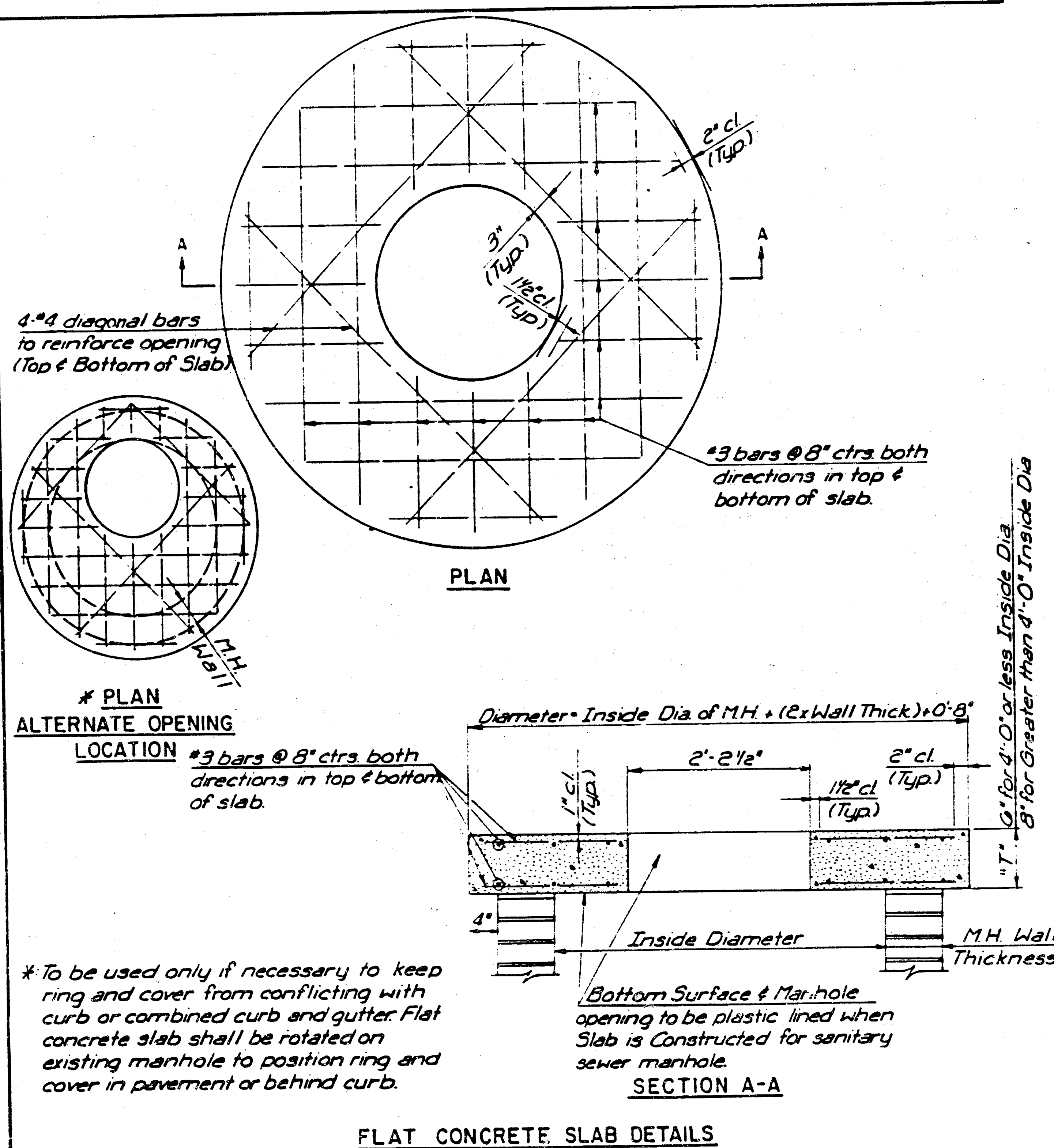
7

9



THE APPROPRIATE PORTIONS OF THE DRAW AND BARREL OF TYPE A, B, C, D, 1 AND 2 MANHOLES SHALL BE REMOVED. A NEW DRAW CONSTRUCTED, AND THE RING AND COVER RESET. THE UPPER PORTION OF TYPE 3 MANHOLES SHALL BE REMOVED TO THE BOTTOM OF THE FLAT CONCRETE SLAB, THE BRICK MASONRY BARREL SUPPORTING THE SLAB SHALL BE RAISED THE APPROPRIATE AMOUNT, AND THE SLAB AND RING AND COVER RESET. THE WIDE FLANGE RING AND COVER OF TYPE 4 MANHOLES SHALL BE REMOVED, THE BRICK MASONRY BARREL SUPPORTING THE RING SHALL BE RAISED THE APPROPRIATE AMOUNT AND THE RING AND COVER RESET. ALL WORK REQUIRED FOR A GREATER THAN TWELVE INCH (12") UPWARD ADJUSTMENT OF ANY MANHOLE SHALL BE ACCOMPLISHED WITH BRICK MASONRY IN ACCORDANCE WITH THE DETAILS SHOWN AND THE GENERAL NOTES.

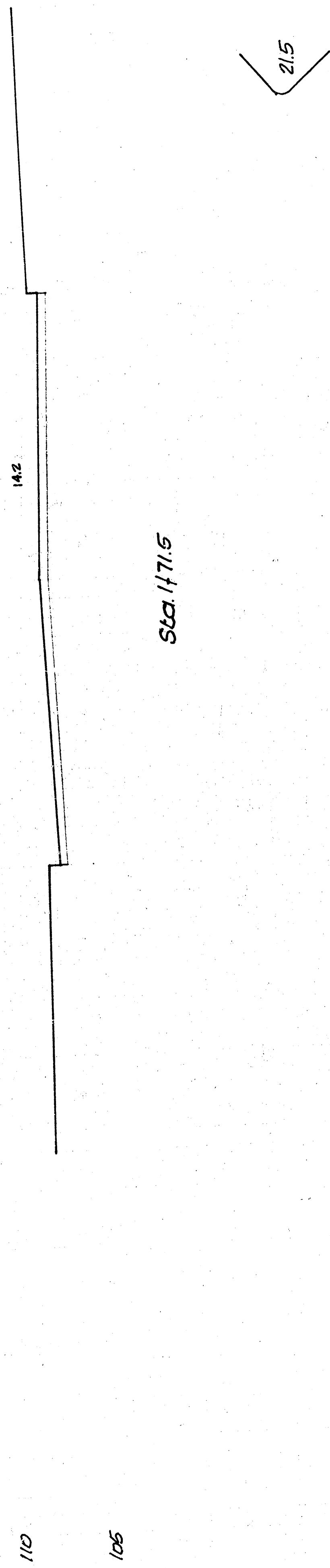
COURSES OF BRICK BARREL SUPPORTING THE WIDE FLANGE RING FOR TYPE 4 MANHOLES AND FLAT CONCRETE SLAB FOR TYPE 3 MANHOLES SHALL BE REMOVED AS NECESSARY PRIOR TO RESETTING THE WIDE FLANGE RING OR FLAT CONCRETE SLAB AND RING. ALL WORK AND MATERIALS SHALL CONFORM TO THE DETAILS SHOWN AND THE GENERAL NOTES.



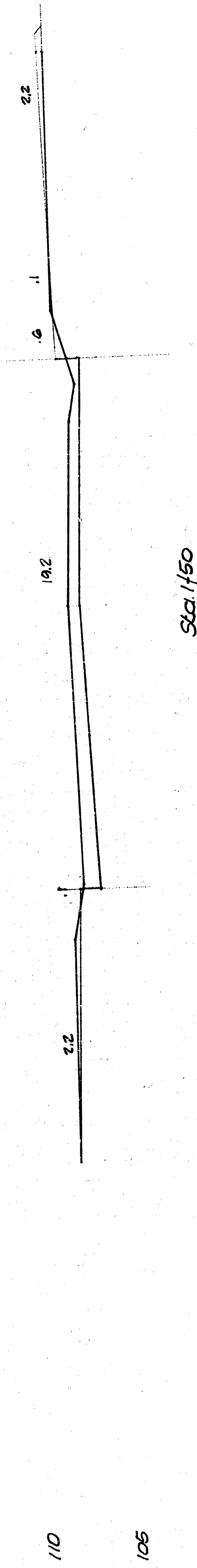
* To be used only if necessary to keep ring and cover from conflicting with curb or combined curb and gutter. Flat concrete slab shall be rotated on existing manhole to position ring and cover in pavement or behind curb.

MANHOLE ADJUSTMENT DETAILS			
472-76-245-81759-000-000-001 8/9			
CITY OF WICHITA, KANSAS			
M. E. LINDEBAK - CITY ENGINEER			
Designed by	Checked by	8	
Drawn by	Date	JOB No.	9

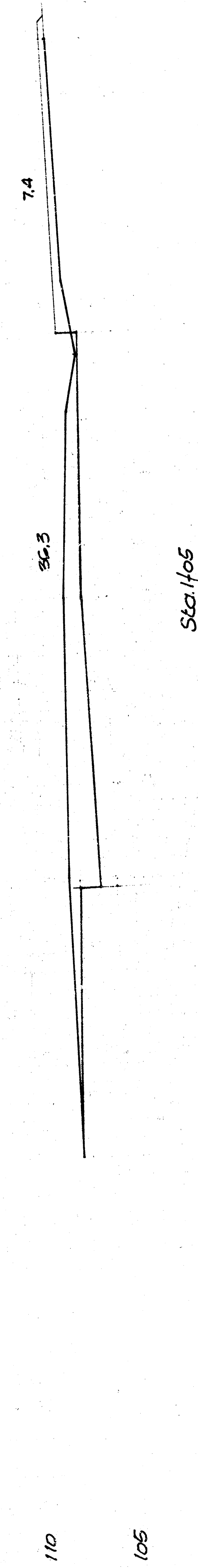
Earthwork Sections
Lacerte Ave.



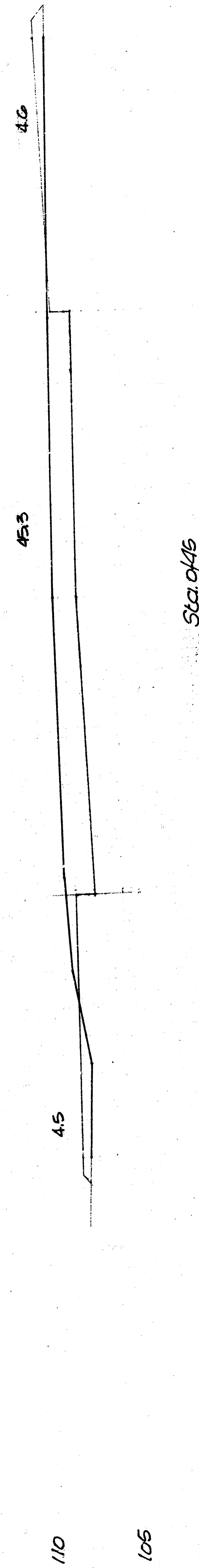
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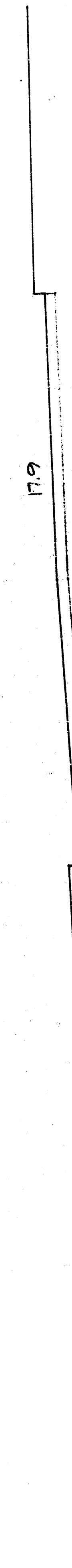
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L. Fill 6.6



Exc. 90.7
L. Fill 18.3



Exc. 54.2
L. Fill 1.8



Page Total
Exc. 201.3
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