

STREET IMPROVEMENTS FOR
BRUSH CREEK ADDITION

35TH ST. NORTH: From the E.L. Rushwood to the E.L. Lot 31, Blk. 3
35TH ST. COURT: From the N.L. 35th St. N. Cir. to and Including Cal-De-Sac

Project No.

472-76-245-81412-000-000-001 INDEX # 602193

CITY OF WICHITA, KANSAS

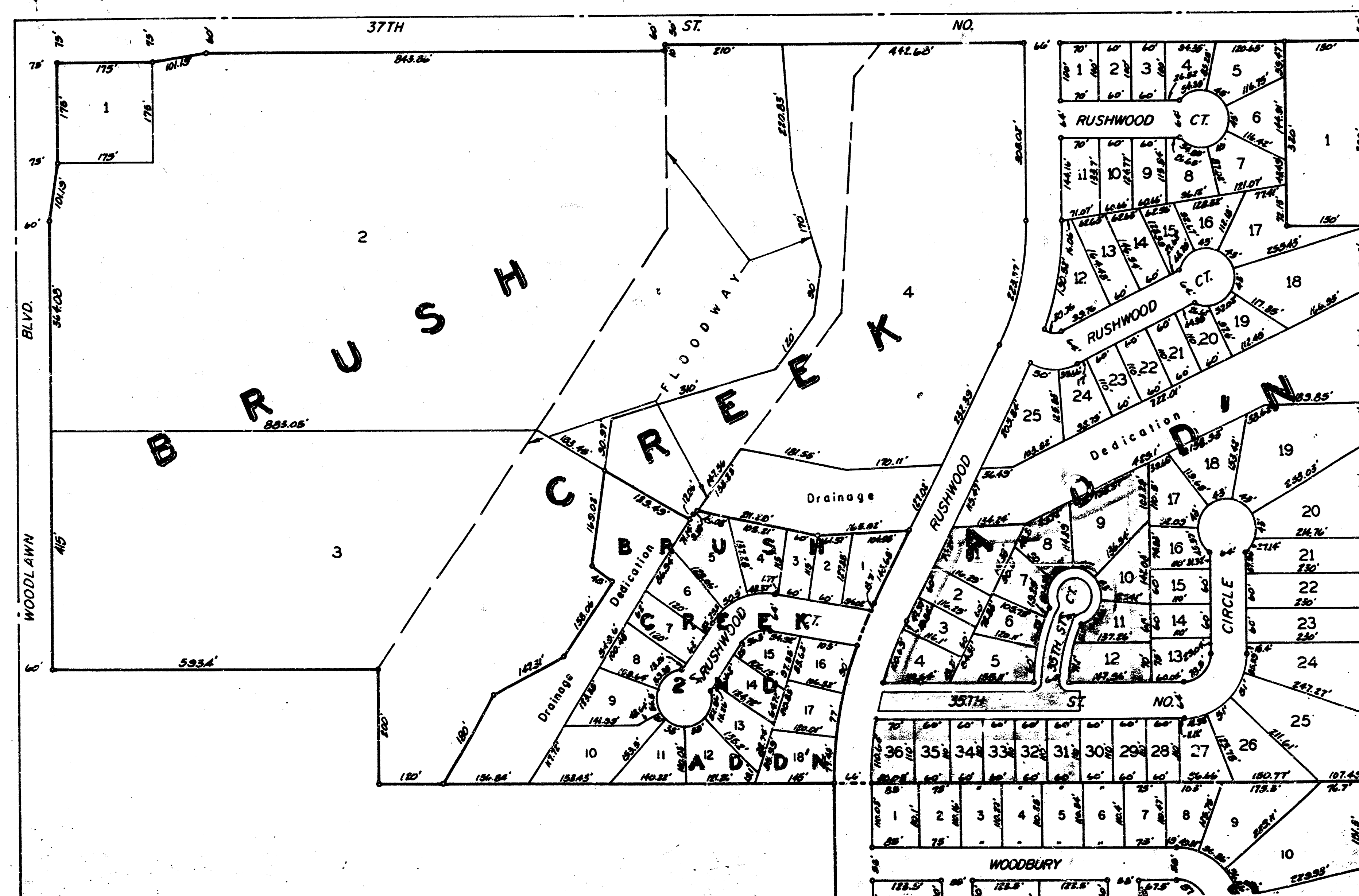
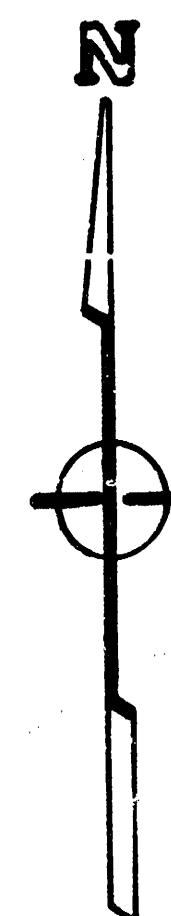
Michael E. Lindebak City Engineer

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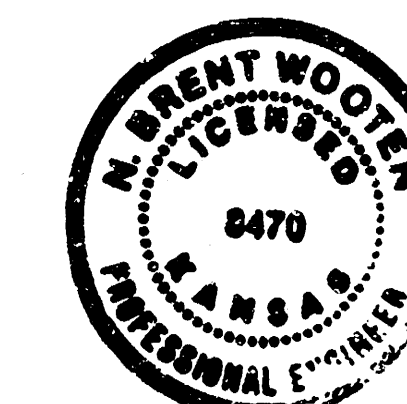
BENCH MARKS

- BENCH MARK #1: Square Cut In Back of Walk at Station 0+42, 35th St. North, 32 Feet Left. Elevation= 175.98 City Datum
- BENCH MARK #2: Square Cut In Back of Walk at Station 0+27, 35th St. North, 32 Feet Right. Elevation= 175.94 City Datum



GENERAL NOTES

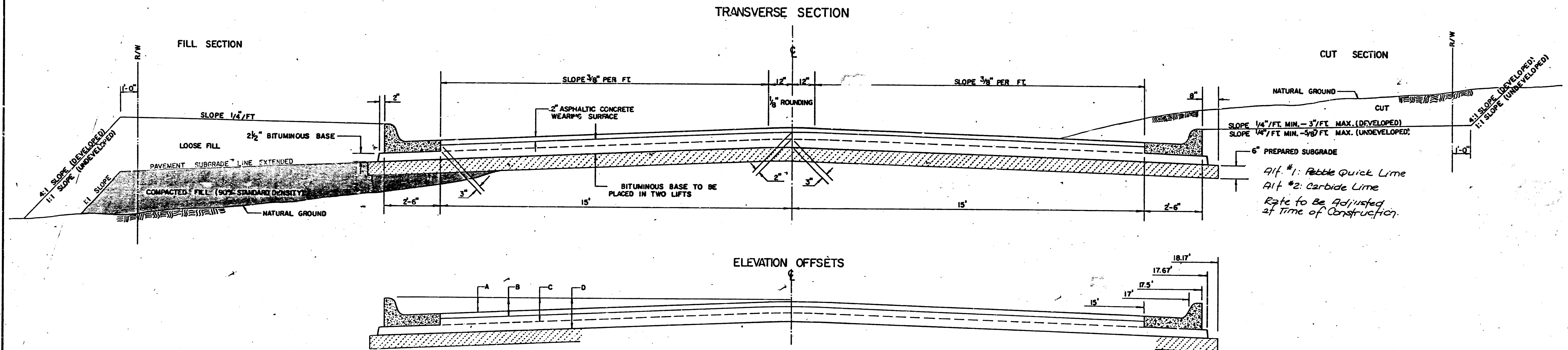
1. Utility service lines, poles, valve boxes, meters, and etcetera are to be adjusted as necessary by others prior to construction unless the plans specifically call for their adjustment by the Contractor or unless the plans specifically identify a utility to be adjusted by its owner during construction. Existing utilities and their location, as shown on the plans, represent the best information obtainable for design. The contractor will be required to work around existing utilities within the right-of-way which do not conflict with proposed construction.
2. No more than 4 drives 16 feet in width, or equivalent combinations thereof, are to be constructed with this project.
3. The Contractor shall be responsible for preserving property irons. The Contractor will be required to re-establish any property irons which are damaged or destroyed by his construction operations. Such irons shall be re-established by a licensed land surveyor in accordance with state laws.



BENEFIT DISTRICT

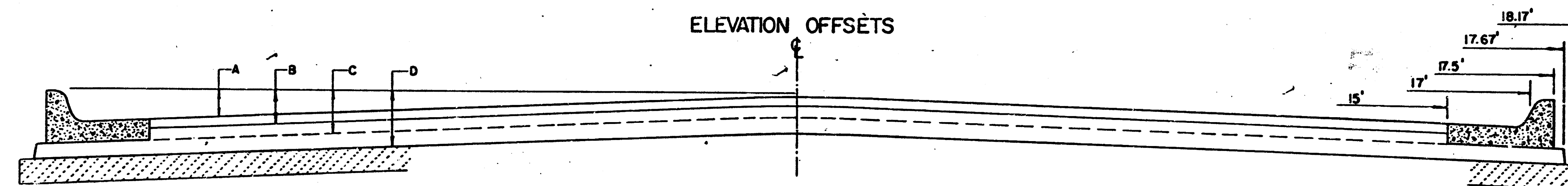
Nov 10, 1988
BAUGHMAN COMPANY P. A.
SURVEYING & ENGINEERING
316/262-7271 • 315 ELLIS • WICHITA, KANSAS 67211 1/8

TYPICAL 35' PAVEMENT DETAILS



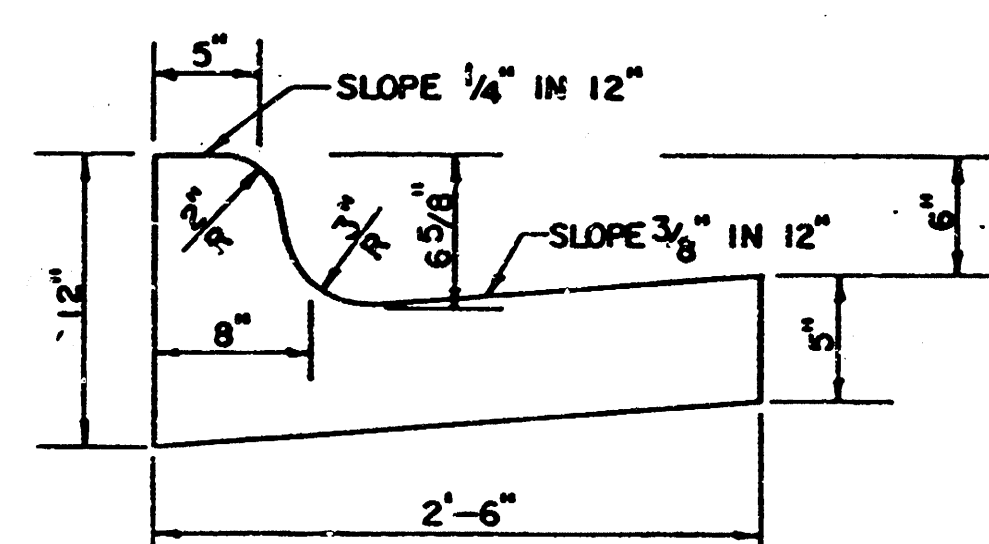
Alt. #1: Pebble Quick Lime
Alt. #2: Carbide Lime
Rate to be adjusted
at time of construction.

ELEVATION OFFSETS

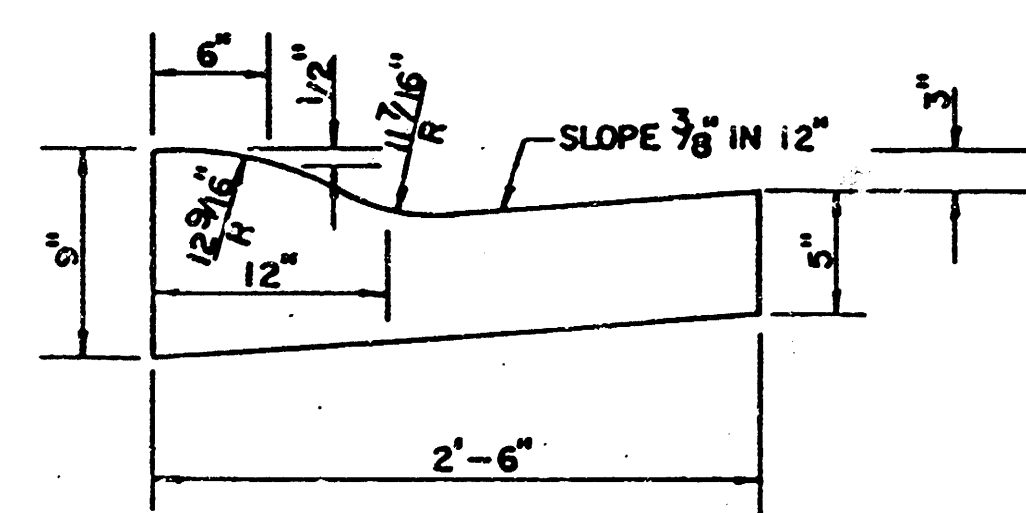


	DISTANCE FROM CENTERLINE (LT. & RT.)												
	0'	2'	4'	6'	8.5'	10'	12'	14'	15'	17'	17.5'	17.67'	18.17'
A: TOP OF CURBS TO TOP OF SURFACE LIFT	0.04	0.08	0.14	0.21	0.29	0.33	0.39	0.46	0.49	—	—	—	—
B: TOP OF CURBS TO TOP OF UPPER BASE LIFT	0.21	0.25	0.31	0.37	0.45	0.50	0.56	0.62	0.65	—	—	—	—
C: TOP OF CURBS TO TOP OF LOWER BASE LIFT	0.37	0.43	0.50	0.57	0.67	0.72	0.79	0.87	0.90	0.98	1.00	1.00	—
D: TOP OF CURBS TO TOP OF SUBGRADE	0.62	0.67	0.74	0.81	0.90	0.95	1.02	1.08	1.12	1.19	1.21	1.21	1.23

COMBINED CURB & GUTTER



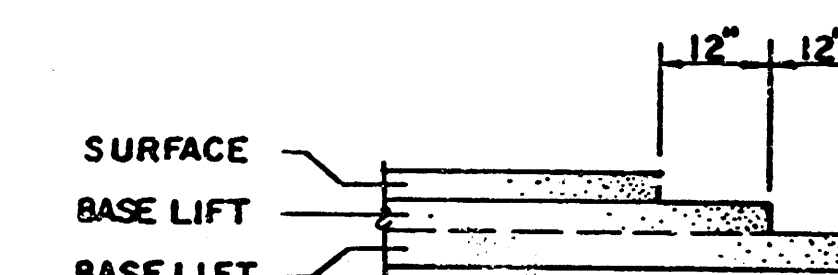
ROLL TYPE COMBINED CURB & GUTTER



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-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.

TRANSVERSE CONSTRUCTION JOINTS

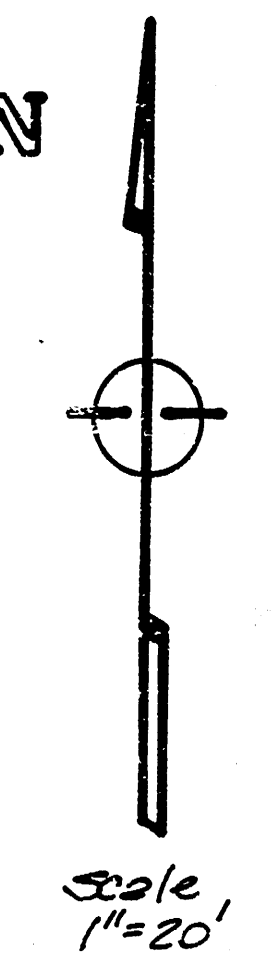
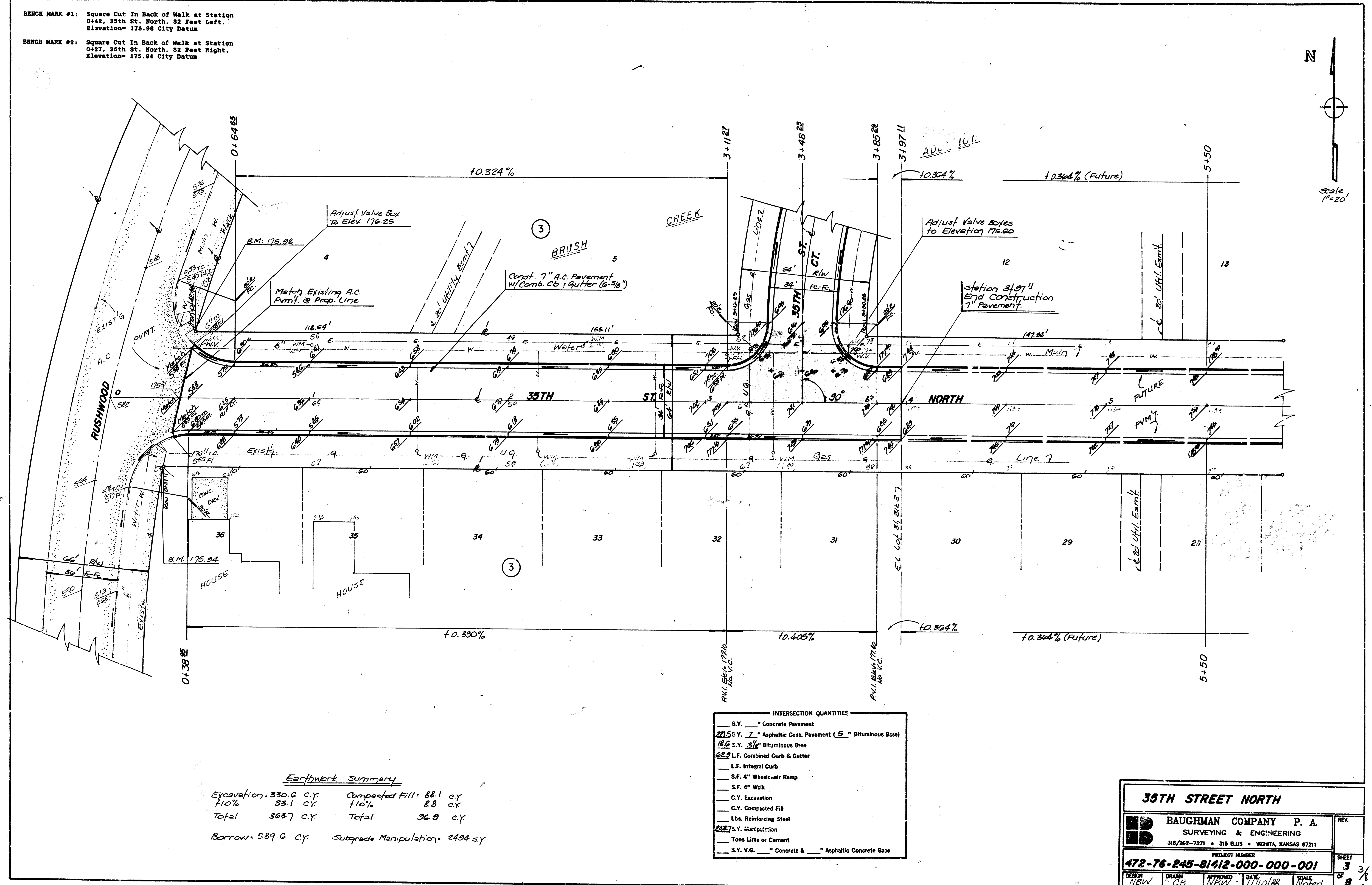


TRANSVERSE CONSTRUCTION JOINTS SHALL BE CONSTRUCTED IN FLEXIBLE BASE PAVEMENTS AT LOCATIONS WHERE PAVEMENT JOINTS EXISTING FLEXIBLE BASE PAVEMENT AS SHOWN BY THE DETAIL. ALL COSTS ASSOCIATED WITH THE CONSTRUCTION OF THE TRANSVERSE JOINT SHALL BE INCLUDED IN THE BID PRICE FOR SQUARE YARDS 7" ASPHALTIC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

7 INCH RESIDENTIAL ASPHALTIC CONCRETE
PAVEMENT WITH 5 INCH BITUMINOUS BASE
CITY OF WICHITA, KANSAS 2
PROJECT NUMBER
472-76-245-81412-000-000-001 8

BENCH MARK #1: Square Cut In Back of Walk at Station
0+42, 35th St. North, 32 Feet Left.
Elevation= 175.98 City Datum

BENCH MARK #2: Square Cut In Back of Walk at Station
0+27, 36th St. North, 32 Feet Right.
Elevation= 175.94 City Datum



Earthwork Summary

Excavation = 330.6 c.y.	Compacted Fill = 88.1 c.y.
110% 33.1 c.y.	8.8 c.y.
Total 363.7 c.y.	Total 96.9 c.y.
Borrow = 589.6 c.y.	Subgrade Manipulation = 2494 s.y.

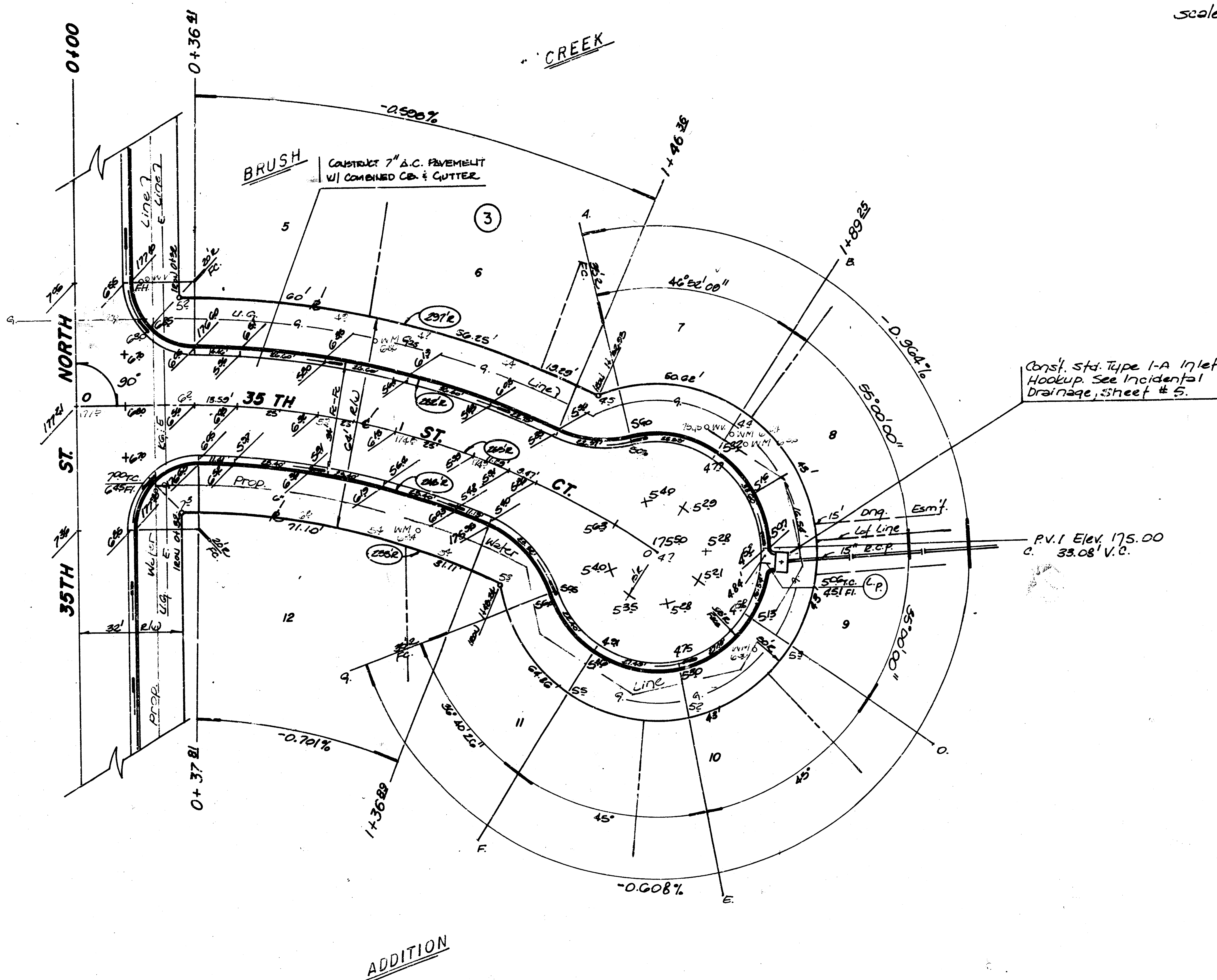
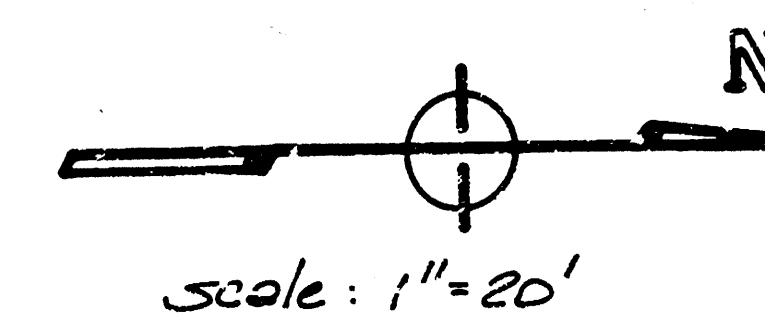
INTERSECTION QUANTITIES

— S.Y. —	Concrete Pavement
2215 S.Y. 7"	Asphaltic Conc. Pavement (S" Bituminous Base)
186 S.Y. 3 1/2"	Bituminous Base
622 L.F.	Combined Curb & Gutter
—	L.F. Integral Curb
—	S.F. 4" Wheelchair Ramp
—	S.F. 4" Walk
—	C.Y. Excavation
—	C.Y. Compacted Fill
—	Lbs. Reinforcing Steel
24875 Y.	Manipulation
—	Tons Lime or Cement
— S.Y. V.G. —	Concrete & " Asphaltic Concrete Base

35TH STREET NORTH			
BAUGHMAN COMPANY P. A. SURVEYING & ENGINEERING 316/262-7271 • 315 ELLIS • WICHITA, KANSAS 67211			
PROJECT NUMBER			
472-76-245-81412-000-000-001			
DESIGN	DRAWN	APPROVED	DATE
NBW	CB	NBW	11/10/88
SCALE		NOTED	
3/8"		Noted	

BENCH MARK #1: Square Cut In Back of Walk at Station
0+42, 35th St. North, 32 Feet Left.
Elevation= 175.98 City Datum

BENCH MARK #2: Square Cut In Back of Walk at Station
0+27, 35th St. North, 32 Feet Right.
Elevation= 175.94 City Datum



CURVE DATA BASED ON $R=205'$ $\Delta=34^{\circ}00'00''$
 $T=21.02$ $LC=154.26'$ $ARC=157.25'$

STATION	ARC	CHORD LENGTHS		DEF. Δ	TOTAL DEF. Δ
		O/LT. FC.	O/RT. FC.		
0+32.00	—	—	—	—	—
0+36.41	4.41	4.85	—	0°26'36"	0°26'36"
0+37.81	1.40	—	5.26	0°03'05"	0°31'41"
0+50	12.19	13.34	11.04	1°13'04"	1°26'45"
0+75	25	27.55	22.63	2°42'10"	4°38'55"
1+00	25	27.55	22.63	2°42'10"	7°21'05"
+25	25	27.55	22.63	2°42'10"	10°03'15"
1+50.00	11.00	—	10.77	1°17'07"	11°20'22"
1+46.56	3.44	23.37	—	1°01'26"	12°21'48"
1+59.25 PT	42.80	46.00	47.54	4°36'12"	17°00'00"

DEFLECTION/PT. = 0.48648 MINUTES.

35TH STREET COURT				
BAUGHMAN COMPANY P. A. SURVEYING & ENGINEERING 318/282-7271 • 315 ELLIS • WICHITA, KANSAS 67211				REV.
PROJECT NUMBER				SHEET
472-76-245-81412-000-000-001				4
DESIGN	DRAWN	APPROVED	DATE	SCALE
NSW	CB	NSW	11/10/88	Noted 4/8

BENCH MARK #1: Square Cut In Back of Walk at Station 0+42, 35th St. North, 32 Feet Left. Elevation= 176.98 City Datum

BENCH MARK #2: Square Cut In Back of Walk at Station 0+27, 35th St. North, 32 Feet Right. Elevation= 176.94 City Datum

Station 0+29.4, Begin Const. 15" R.C.P. w/ End Section. Install 23 S.Y. Pre-Packaged Conc. Rip-Rap.

Station 0+98.4 Const. Std. Type 'A' Manhole. Top Elevation= 175.3

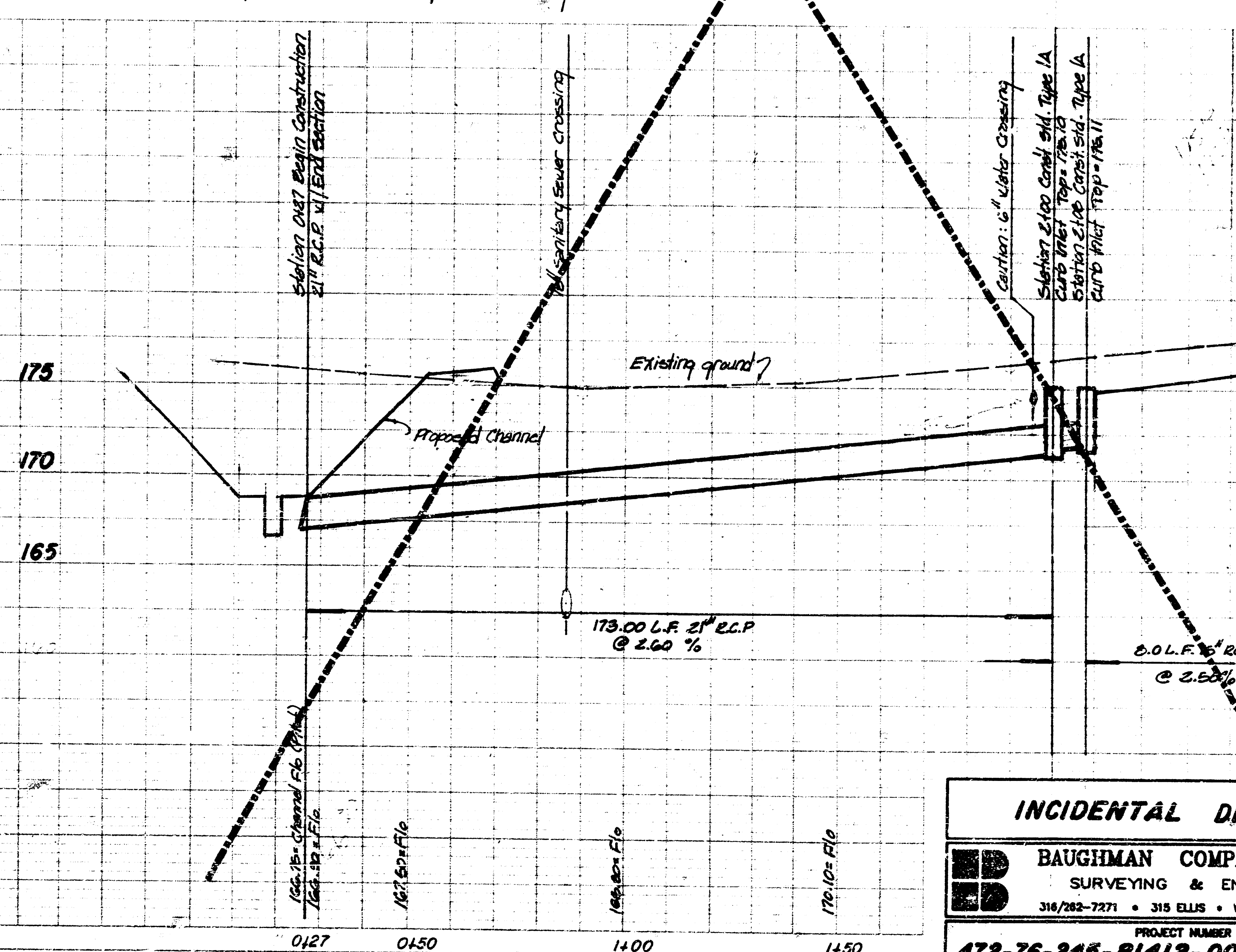
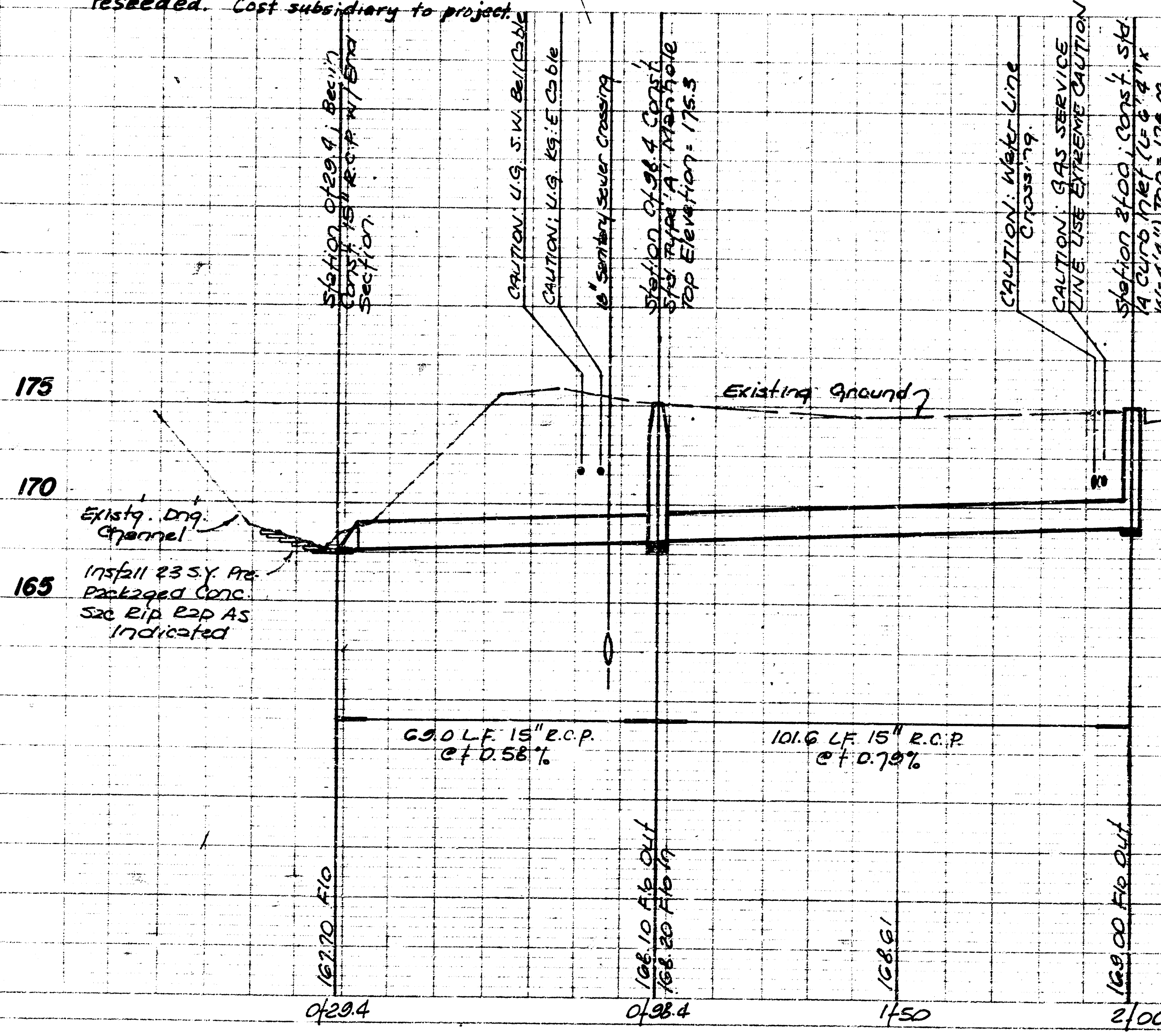
Station 2+00, Construct Std. 1-A Inlet (5'6" x 4'4") Top= 175.00

CAUTION: U.G. Gas Service Line. Use Caution!

Note: Area disturbed during construction in the drainage dedication shall be reseeded. Cost subsidiary to project.

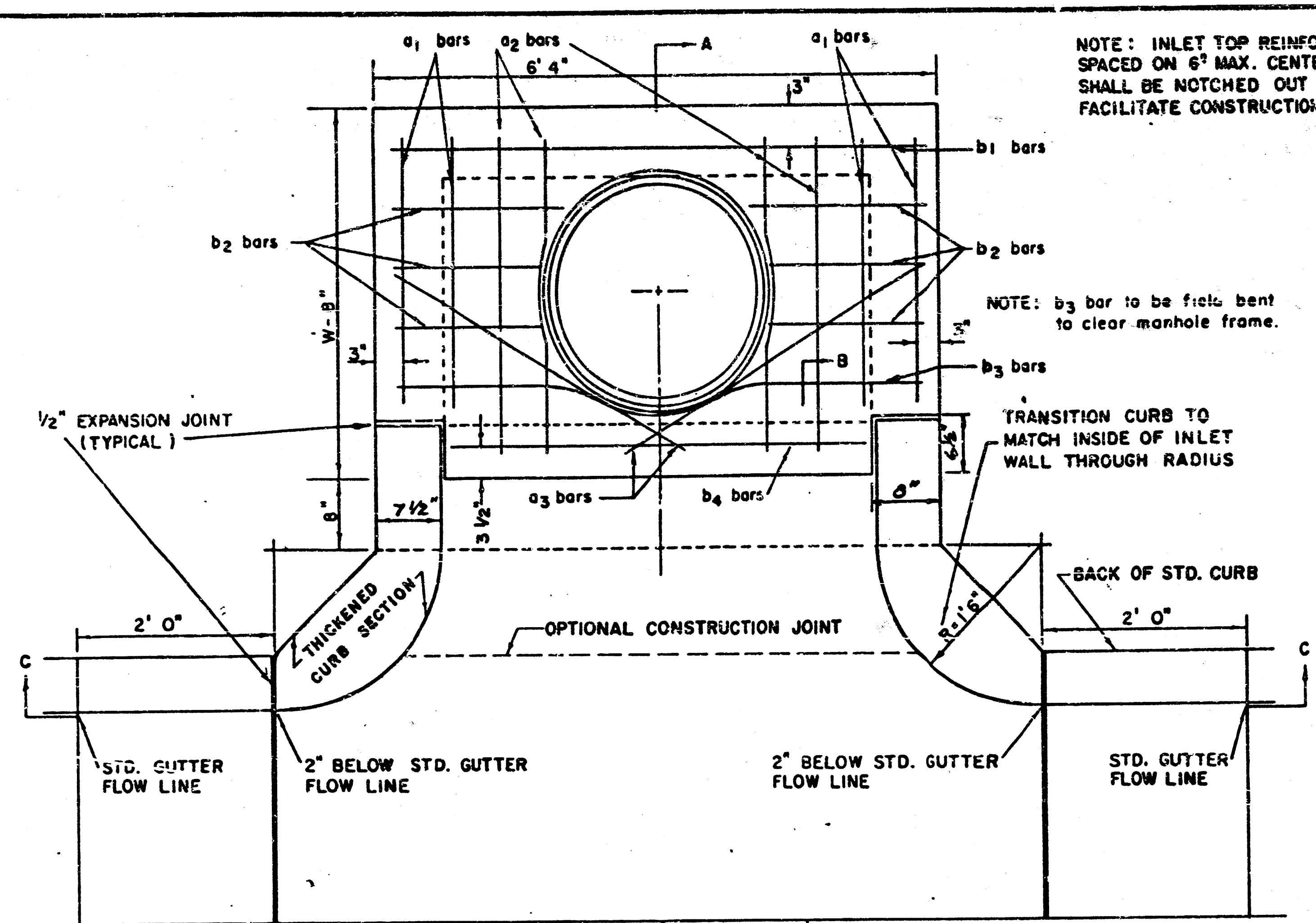
SCALE: 1"=20' PLAN
1"=5' PROFILE

SCALE: 1"=20' PLAN
1"=5' PROFILE



INCIDENTAL DRAINAGE			
BAUGHMAN COMPANY P. A. SURVEYING & ENGINEERING 318/282-7271 • 315 ELLIS • WICHITA, KANSAS 67211		REV 5/1	
PROJECT NUMBER 472-76-245-81412-000-001		SHEET 5 OF 8	
DESIGN C.B.	DATE 11/10/88	APPROVED N.B.W.	SCALE Noted

PLATE 1: SINGLE PLAN AND PROFILE FULL LINE
PRINTED IN U.S.A.



PLAN

STEEL SCHEDULE

BAR	a ₁	a ₂	a ₃	b ₁	b ₂	b ₃	b ₄	WT. LBS.
NUMBER	4	4	2	1	3	5	7	9
SIZE	"4	"4	"4	"4	"4	"4	"4	"6
LENGTH	W-4'4"	5'7"	6'7"	4'0"	6'1"	-	-	-
	W-5'4"	7'7"	8'7"	5'0"	-	6'1"	-	-
	W-6'4"	9'7"	10'7"	6'0"	-	-	6'1"	-
	W-7'4"	11'7"	12'7"	7'0"	-	-	-	6'1"
	W-8'4"	13'7"	14'7"	8'0"	-	-	-	-
					6'1"	1'9"	6'2"	4'8"
								60±
								81±
								101±
								121±
								141±

* NOTE: a₃ BARS TO BE PLACED APPROX. 2" BELOW TOP OF INLET COVER

BENDING DIAGRAM

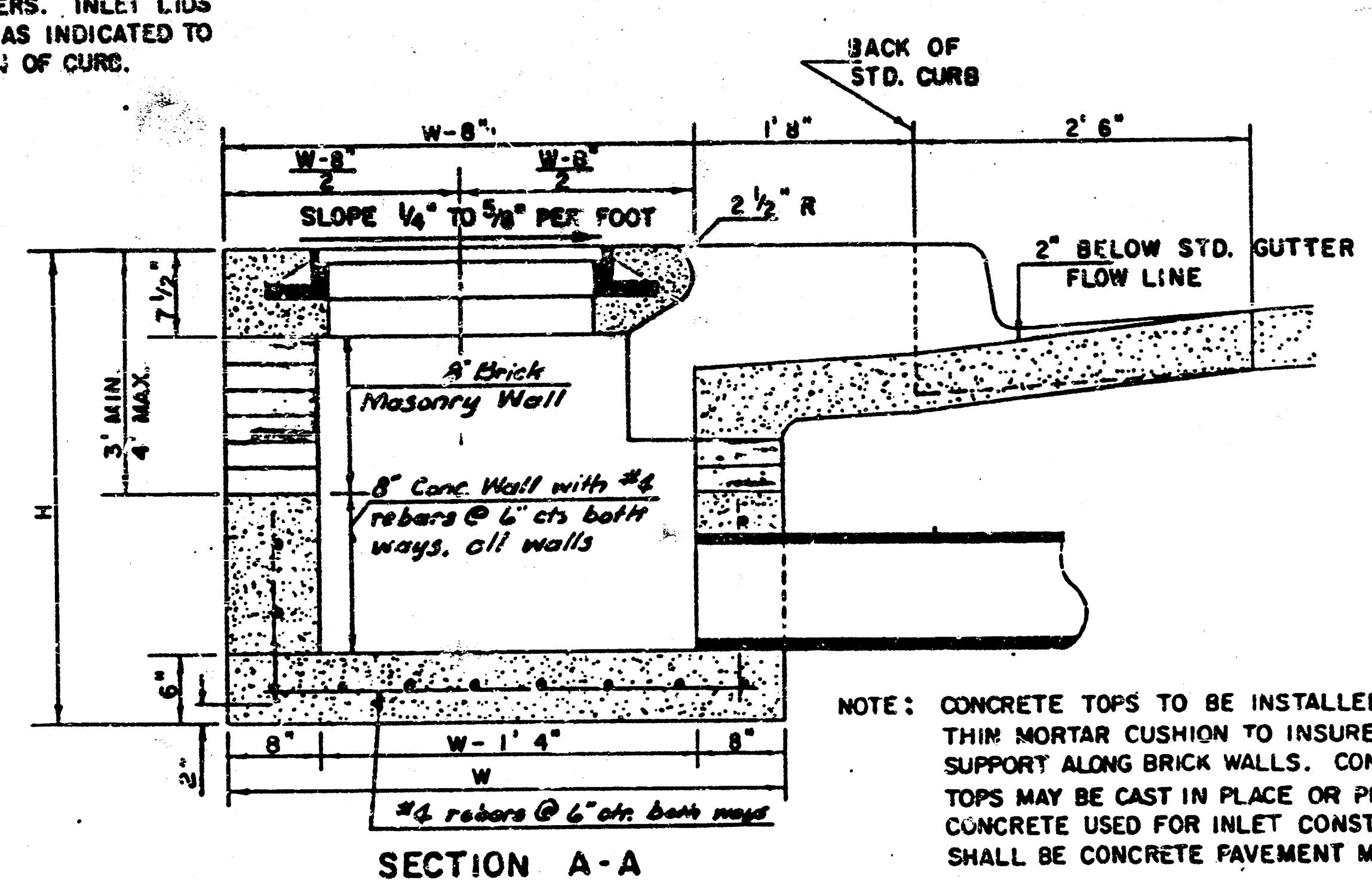
STANDARD CURB INLET PRECAST TOPS

W	PRE-CAST TOP SIZE	CU. YD. CONC.
4' 4"	5'8" x 6'4" x 7 1/2"	21" & SMALLER
5' 4"	6'8" x 6'4" x 7 1/2"	24" & 30"
6' 4"	7'8" x 6'4" x 7 1/2"	36" & 42"
7' 4"	8'8" x 6'4" x 7 1/2"	48" & 54"
8' 4"	9'8" x 6'4" x 7 1/2"	60" & 66"

NOTE: INLET TOP REINFORCING SHALL BE SPACED ON 6" MAX. CENTERS. INLET LIDS SHALL BE NOTCHED OUT AS INDICATED TO FACILITATE CONSTRUCTION OF CURB.

NOTE: b₃ bar to be field bent to clear manhole frame.

TRANSITION CURB TO MATCH INSIDE OF INLET WALL THROUGH RADIUS



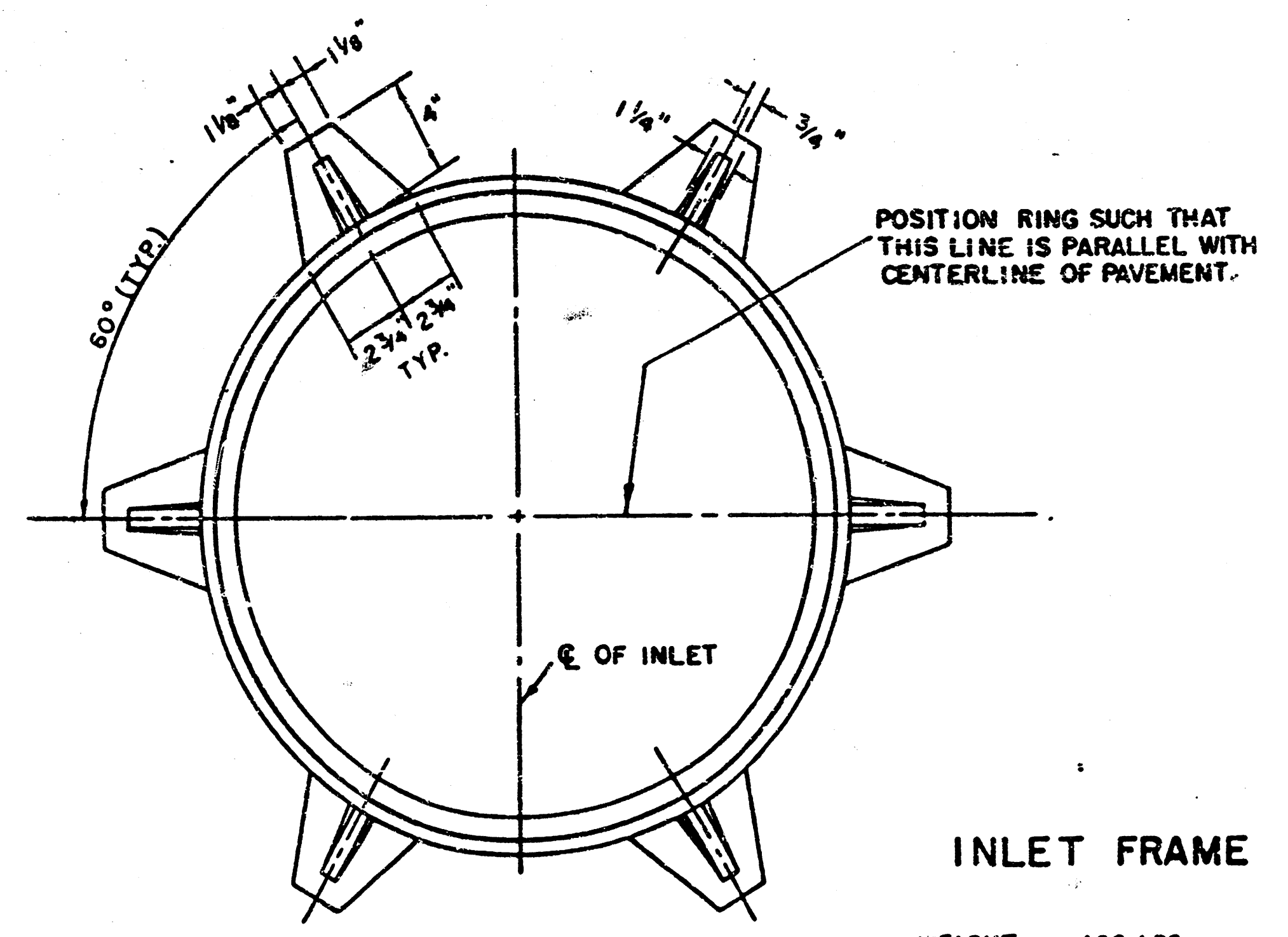
NOTE: CONCRETE TOPS TO BE INSTALLED ON THIN MORTAR CUSHION TO INSURE FULL SUPPORT ALONG BRICK WALLS. CONCRETE TOPS MAY BE CAST IN PLACE OR PRECAST. CONCRETE USED FOR INLET CONSTRUCTION SHALL BE CONCRETE PAVEMENT MIX.

NOTE: CONTRACTOR SHALL HAVE THE OPTION OF CONSTRUCTING 6" THICK MASONRY WALLS BETWEEN THE CONCRETE INLET BASE AND TOP ON THIS INLET WHEN W = 6'4" AND H = 7'0" OR LESS.

ADDITIONAL CURB AND GUTTER CONSTRUCTION NECESSARY TO CONNECT SET-BACK INLET TO PAVEMENT WILL BE PAID FOR AT THE UNIT PRICE BID FOR EACH INLET HOOKUP.

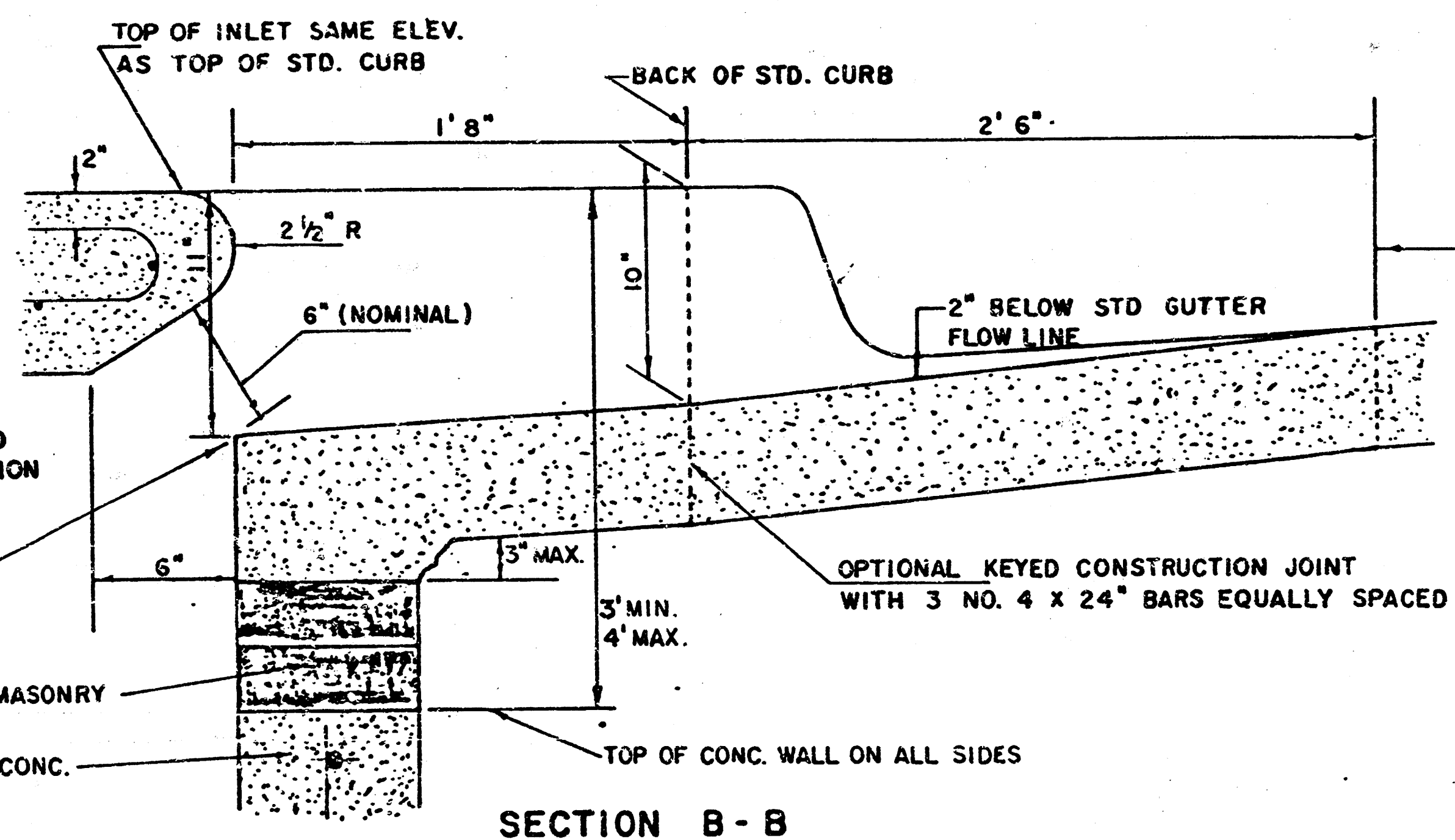
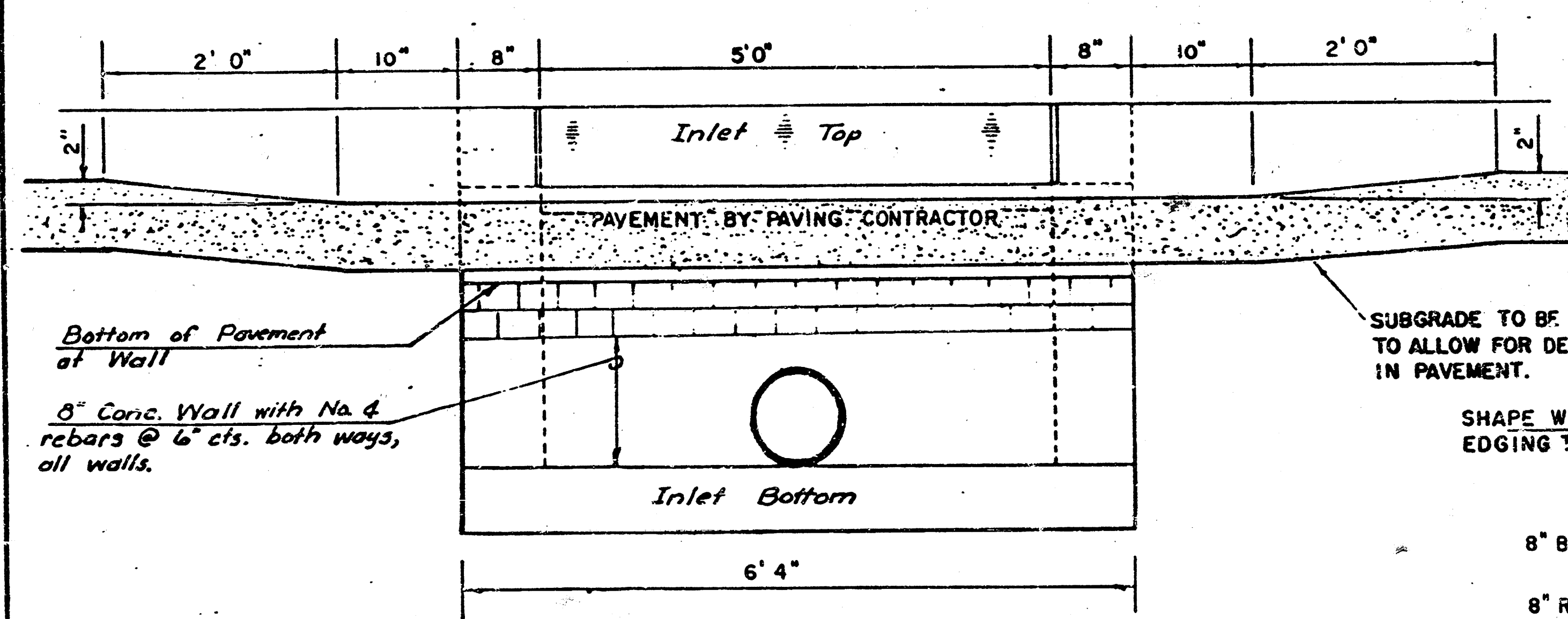
INLET INVERT SHALL BE SHAPED WITH 8 SACK SAND MIX CONCRETE TO CREATE FLOW CHANNELS AND TO INCREASE HYDRAULIC EFFICIENCY SUCH THAT THE INLET WILL BE SELF CLEANING BETWEEN ALL INLET AND/OR OUTLET PIPES.

THE ENDS OF ALL PIPES INSTALLED IN INLETS SHALL BE CUT OFF FLUSH WITH THE INSIDE FACE OF THE INLET WALL.



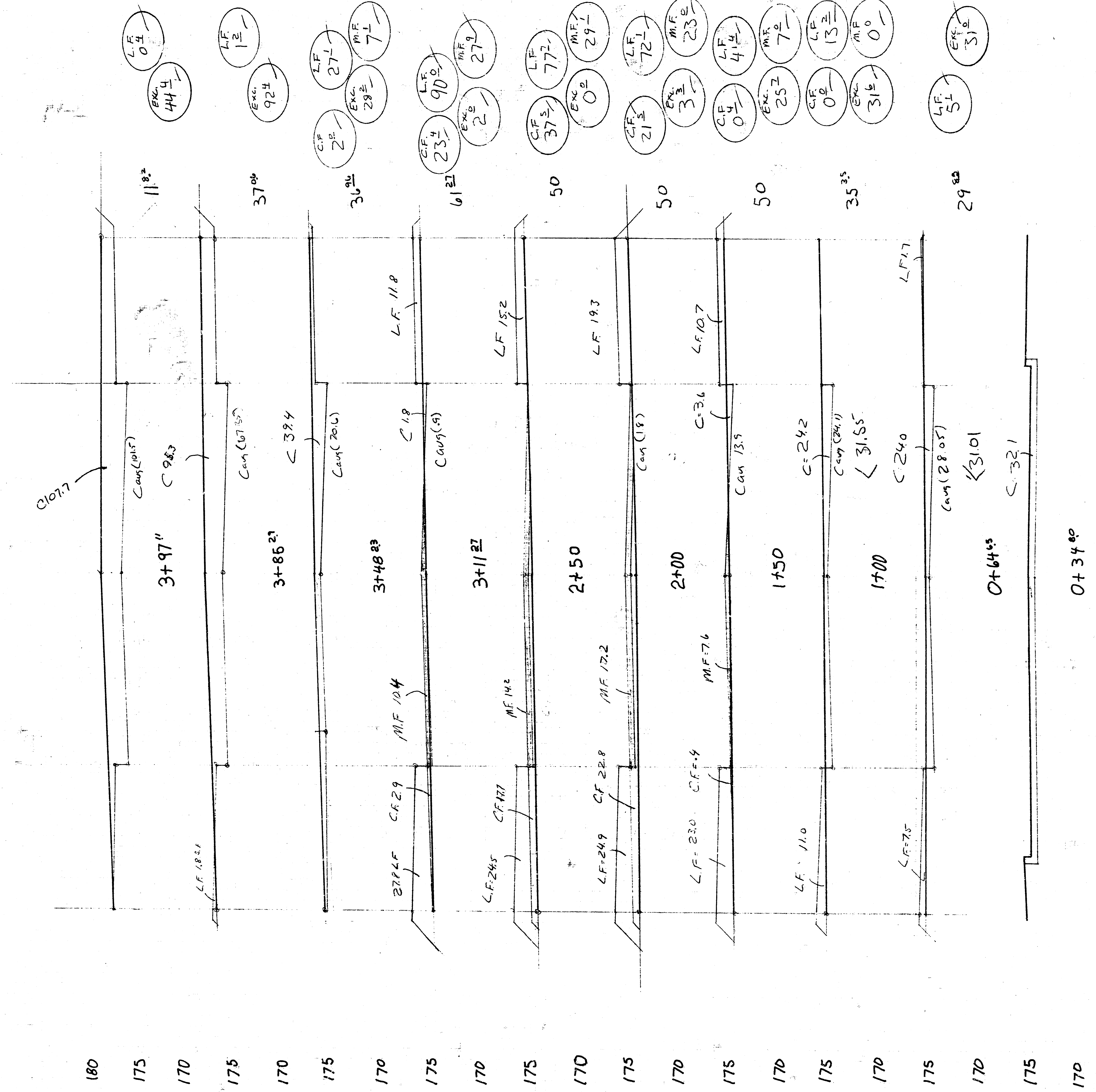
WEIGHT = 180 LBS.

SEE CITY OF WICHITA STANDARD MANHOLE FRAME AND COVER DETAIL SHEET FOR COVER DETAILS TO BE USED WITH INLET FRAME.



REVISED 12-21-1984

DETAIL STANDARD TYPE IA CURB INLET
CITY OF WICHITA, KANSAS
INLET OPENING = 6" x 5' 0"
472-76-241-81432-000-001
JUNE 1984



$$\text{BERROW} = 1.1 \left[\frac{1}{2} (88.1 + 132.6) + 55.6 \right] - 0.8 (55.6)$$

$$= 589.6 \text{ cu'}$$

Earthwork Grand Totals:	
Excavation	330.6' C.K.
Loose fill	535.6' C.K.
Imported fill	132.6' C.K.
Compacted fill	88.1' C.K.
Page totals	
Exc.	258.6 C.K. ✓
L.F.	328.2 C.K. ✓
M.F.	94.1 C.K. ✓
C.F.	84.8 C.K. ✓

