

PAVING IMPROVEMENT OF NEW JERSEY

FROM
OLIVER TO SOUTH LINE OF LOT 3, BLOCK I, REPLAT OF BLOCK I & J, WASHINGTON HEIGHTS ADDITION

IN

THE CITY OF WICHITA

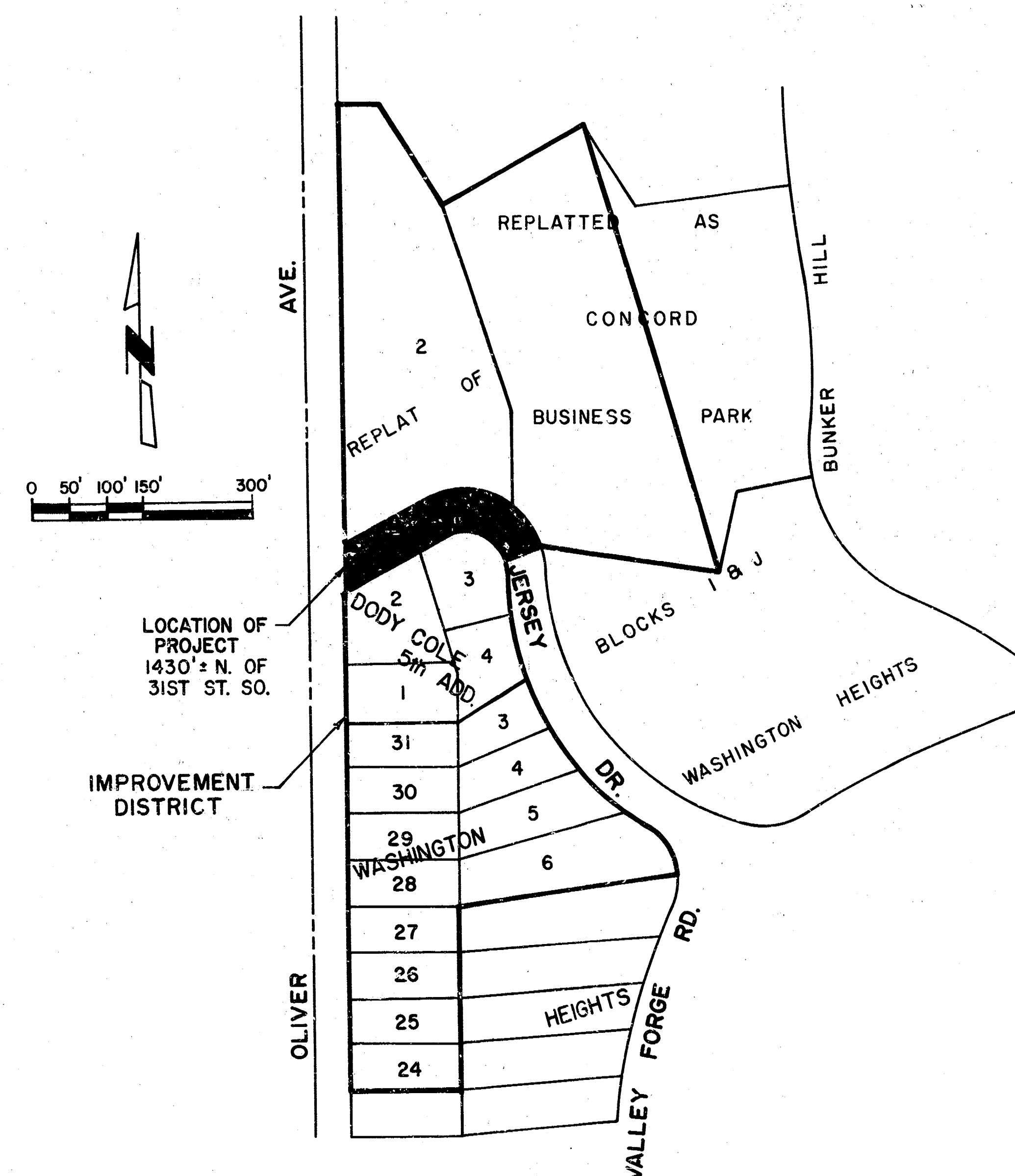
SEDGWICK COUNTY, KANSAS
MICHAEL E. LINDEBAK, P.E., CITY ENGINEER

CITY PROJECT NO. 472-76-245-81809-000-000-001

INDEX #602755

INDEX OF SHEETS

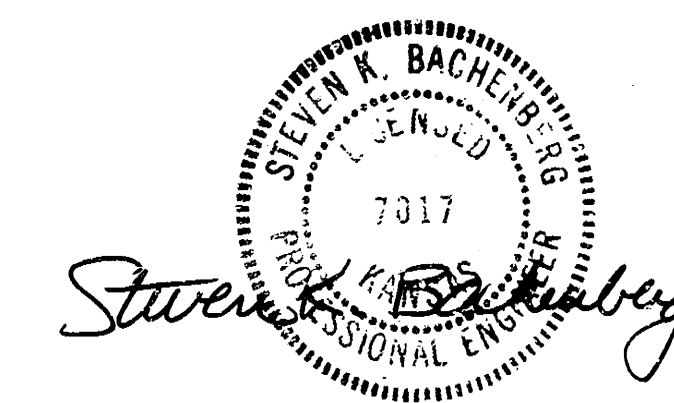
1. Title Sheet
2. Typical Section & Pavement Joint Locations
3. Paving Plan
4. Storm Sewer Plan
5. RCB Details
6. Drive Details
7. Inlet Details
8. Joint Details
9. Cross Sections (Street)
10. Cross Sections (Ditch)



SHEET 5 REVISED 11-7-88

JULY, 1988

Booker/Freund
Engineers Architects Planners



Const. 8" Reinf. Conc. Valley Gutter
(5" Conc. on 3" Bit Base) with
Monolithic Edge Curb

8+04.41 & New
Jersey = & Oliver

Sawcut & Remove
exist. curb &
approach

Const. 8" Conc. Pmnt. with
Monolithic Edge Curb
To Match Existing.
Subsidiary to Project.

LEGEND

Exist. Ditch	-----
Proposed Ditch	-----
Exist. Gravel	-----
Proposed Gravel	-----
Exist. Pipe	-----
Proposed Pipe	-----
Curb & Gutter	-----
Curb Inlet	-----
Pmnt. Removal	-----

INTERSECTION QUANTITIES

153.4	S.Y.	8" Reinf. Conc. Valley Gutter
111	L.F.	Monolithic Curb
160.4	S.Y.	Manipulation

EARTHWORK

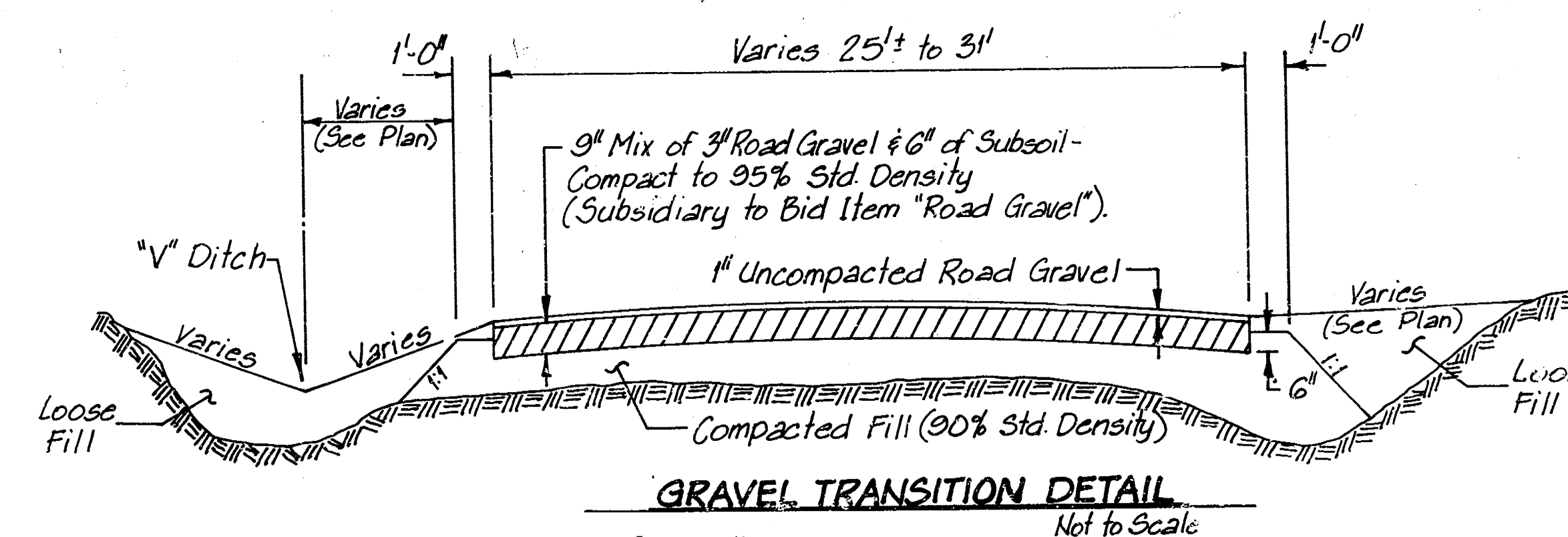
	Excav.	Comp. Fill
Crosssection	242.5 CY	311.9 CY
10%	24.2 CY	31.2 CY
Total	266.7 CY	343.1 CY
Total Manipulated Fill	=	1162 SY
Borrow Excav.	=	905.6 CY

Oliver & George Washington Boulevard
City of Wichita Bench Mark Disk, 44.2' west of center
line Oliver and 55' northeast of centerline George
Washington Blvd.
J.F.G. 1971 Elev. 123.69

$\Delta = 28^\circ 52' 30"$ R = 85.00' T = 21.80' L = 42.84' LC = 42.39'					
CURVE DATA BASED ON RADIUS $\frac{1}{2} = 14^\circ 26' 15"$					
Station	Chord Length	Chord 8' off Lt. Curb	Chord 8' off Rt. Curb	Deflection Angle	Total Deflection
8+56.41 PC	---	---	---	---	---
8+68.12	11.71	8.53	11.70	3°56'47"	3°56'47"
8+78.83	10.71	7.81	10.70	3°36'34"	7°33'21"
8+99.25 PT	20.42	14.09	20.39	6°52'54"	14°26'15"

$\Delta = 101^\circ 52' 16"$ R = 27.50' T = 107.81' L = 155.57' LC = 135.88					
CURVE DATA BASED ON RADIUS $\frac{1}{2} = 50^\circ 56' 08"$					
Station	Chord Length	Chord 8' off Lt. Curb	Chord 8' off Rt. Curb	Deflection Angle	Total Deflection
10+00 PC	---	---	---	---	---
10+25	25	31.46	24.92	18.37	8°11'07"
10+50	25	31.46	24.92	18.37	16°22'14"
10+75	25	31.46	24.92	18.37	24°33'21"
11+00	25	31.46	24.92	18.37	32°44'28"
11+25	25	31.46	24.92	18.37	40°55'35"
11+55.57	30.57	38.41	30.42	22.42	50°50'08"

Grade approx. 100 LE
to match existing.
Fill as necessary.
Surface course to be
Road Gravel as per
City of Wichita Specs.
(See Detail)



B.M. #2 - Chiseled "a" Top of Sidewalk
Sta. 12+50, 46' Lt. El. = 135.33

All dimensions are to the face of curb.

GENERAL NOTES

- Utility service lines, poles, valve boxes, meters, etc., 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.
- A saw cut of at least one-half the depth of existing surface courses or one-fourth the depth of the existing total pavement thickness shall be provided at locations where proposed construction abuts an existing surface course or pavement for which partial removal of that surface pavement is required, except when such saw cuts are within three (3) feet of an existing joint. The limits of removal shall be extended to the existing joint. Such saw cuts will not be paid for directly and this cost shall be considered as subsidiary to the removal of the surface or pavement.
- Rubble from the removal of miscellaneous structures and excess excavation which is to be wasted shall be disposed of on sites to be provided by the Contractor. These sites shall be approved by the Engineer as to suitability, appearance and site location. Location there, in the opinion of the Engineer, will leave an unsightly appearance will not be approved.
- Properties within the project limits may have underground sprinkler systems in public right-of-way which conflict with new construction. Contractor will be required to remove such improvements should they not be removed by their owner at the time of construction of the project. The Contractor will be required to salvage all sprinkler heads and/or valves and give such material to their owner. Portions of underground sprinkler systems not in conflict with new construction shall be protected from damage and shall remain in place. All work in connection with underground sprinkler systems shall be considered as subsidiary to the contract pay items of work.
- Trees and shrubs in public right-of-way which are in direct conflict with proposed new construction shall be removed by the Contractor with the Engineer's approval. Trees and shrubs which are not in direct conflict with proposed new construction shall be saved and protected from damage.
- Limits of earthwork shall match existing ground elevations at the right-of-way line unless otherwise noted on the plans with a new finished grade elevation. When a new finished grade elevation is shown, the earthwork shall extend one foot beyond the right-of-way line and then sloped up or down using permissible slopes to match the existing ground surface.
- All entrance and cross road pipe within the project limits shall be removed by the Contractor unless otherwise noted on the plans. Removal of such pipes shall conform to the applicable section of the Standard Specifications.
- The Contractor shall be responsible for preserving property lines. The Contractor will be required to re-establish any property lines which are damaged or destroyed by his construction operations. Such lines shall be re-established by a licensed land surveyor or a licensed professional engineer in accordance with state laws.
- Construction of concrete parking lot pavement will be paid as square feet of drive for the thickness indicated.
- Driveway widths and locations shown on the plan are tentative. Contractor will be required to obtain properly executed driveway request form signed by property owner or his authorized representative verifying such driveway widths and locations. Such forms shall be submitted to the Engineer for his review and approval.
- The Contractor shall adjust Water Valve Boxes and Fire Hydrants as directed by the Engineer at the price bid for said adjustments. The Water Department shall locate water valves one time during construction when requested by the Contractor. It shall be the Contractor's responsibility to present such field locations during the construction process. Water valves, valve boxes or fire hydrants damaged during construction shall be repaired by the Contractor at his own expense.
- The Contractor shall give all property owners and/or tenants of developed property abutting the project limits a minimum of ten (10) days advance notice prior to start of construction.
- Interurban traffic generated outside the project area is not to be carried through construction. Local business or apartment traffic generated within the project area is to be carried through construction as further promulgated by project special provisions.
- The City of Wichita's Sewer Maintenance Division of the Department of Water and Sewerage Control has televised sewers within the limits of the project and have found no defects requiring repair. The Division shall be notified and afforded the opportunity to reteleviser sewer lines after subgrade work has been completed and prior to pavement construction to determine if such sewer lines have been damaged by the Contractor's operations. Damaged sewer lines will be repaired by the Contractor, as directed by the Engineer, at the Contractor's expense. Television logs are available for inspection by the Contractor during normal office hours at the Sewer Maintenance Division's office at City Hall.
- No more than three drives 25 feet in width, or equivalent combinations thereof, are to be constructed with this project.

CITY OF WICHITA, KANSAS		
MICHAEL E. LINDEBAK, P.E., CITY ENGINEER		
PAVING IMPROVEMENT OF NEW JERSEY		
FROM		
OLIVER TO 370± EAST		
CITY PROJECT NO. 472-76-245-81809-000-000-001		
Booker/Freund		
Engineers	Architects	Planners
SCALE 1" = 20'	DATE JULY, 1988	DWG. NO. 3 of 10

GENERAL NOTES

Underground utility service lines and overhead utility pole lines are to be adjusted as necessary by others prior to construction unless the plans specifically call for their adjustment by the Contractor. Existing utilities and their location, as shown on the plans, are to be maintained and protected. Location information has been obtained from the various utility companies and is shown on the plans. The Contractor will be required to verify the location of existing utilities within the right-of-way which do not conflict with proposed construction.

A new cut of at least one-half the depth of existing surface courses or one-fourth the depth of the existing total pavement thickness shall be provided as required when proposed construction abuts an existing surface course or pavement for which partial removal of that surface or pavement is required. Such new cuts shall be made within three (3) feet of an existing joint the limits of removal shall be extended to the existing joint. Such new cuts will not be paid for directly and this cost shall be considered as subsidiary to the removal of the surface or pavement.

Excavation from the removal of miscellaneous structures and access excavation which is to be wasted shall be disposed of on sites to be provided by the Contractor. These sites shall be approved by the Engineer as to suitability, appearance and site location. Locations that, in the opinion of the Engineer, will leave an unsightly appearance will not be approved.

Properties within the project limits may have underground sprinkler systems in public right-of-way which conflict with new construction. Contractor will be required to remove such improvements should they not be removed by their owner at the time of construction of the project. The Contractor will be required to salvage all sprinkler heads and/or valves and give such materials to their owner. Portions of underground sprinkler systems not in conflict with new construction shall be protected from damage and shall remain in place. All work in connection with underground sprinkler systems shall be considered as subsidiary to the contract pay items of work.

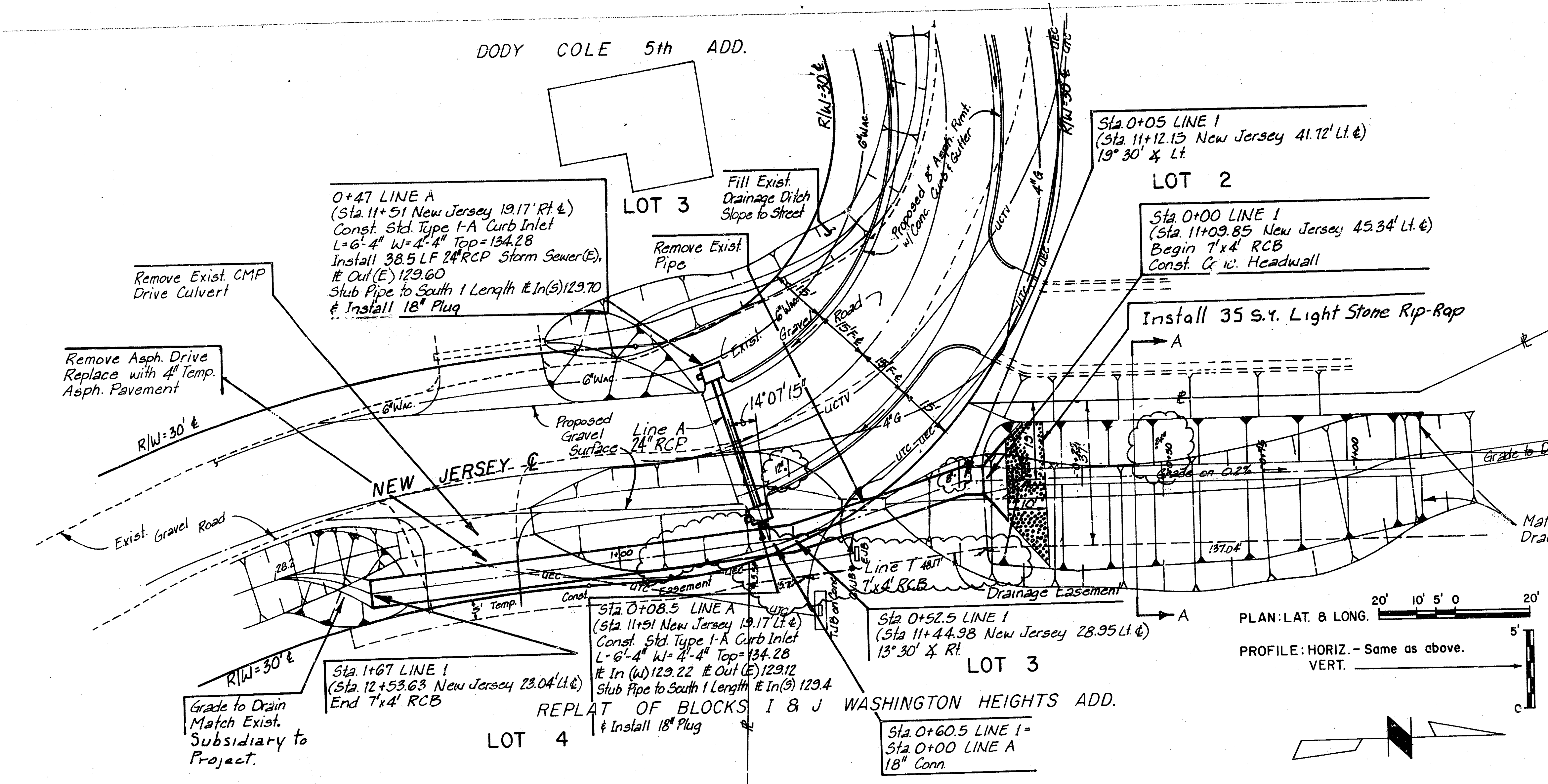
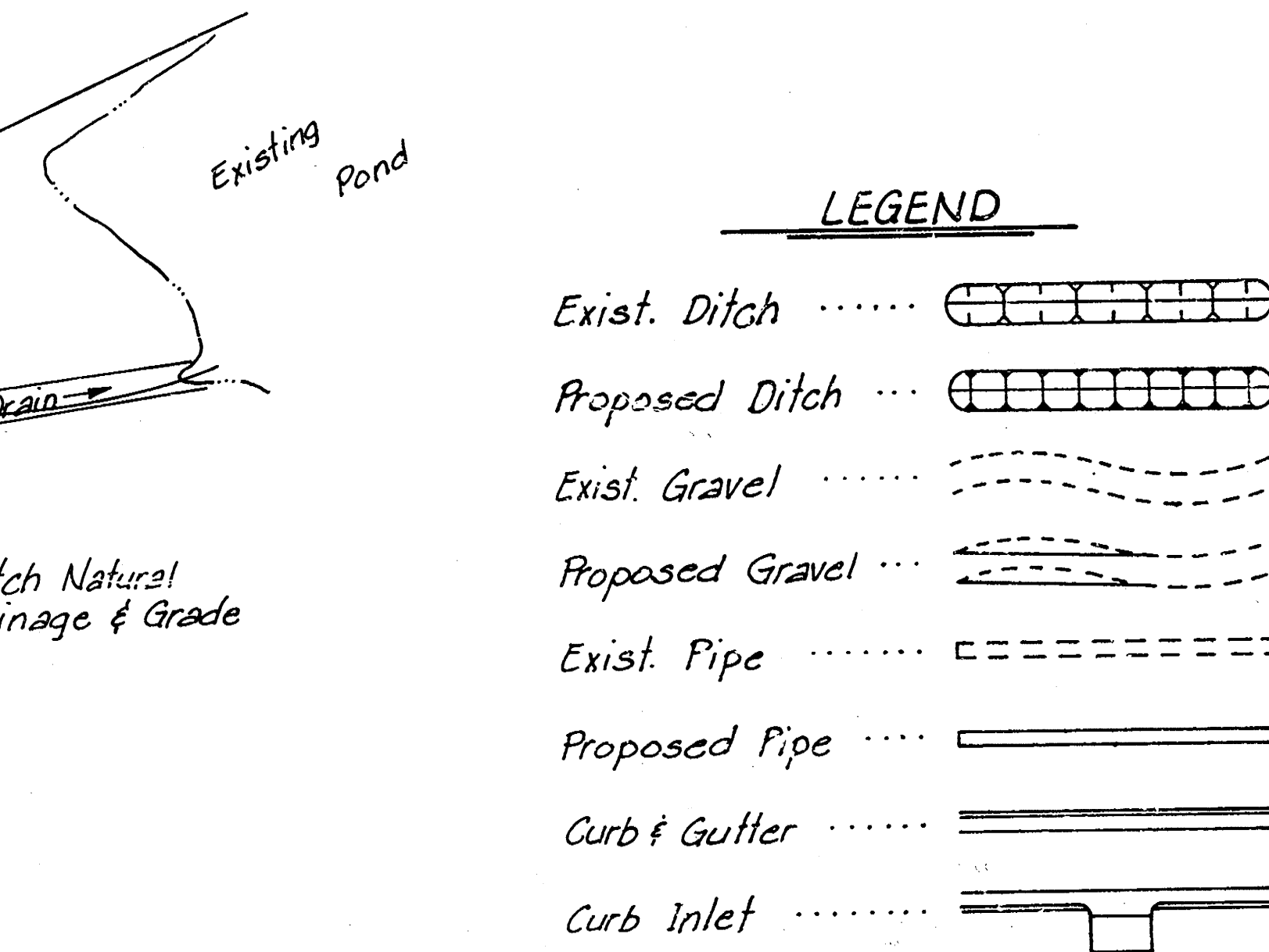
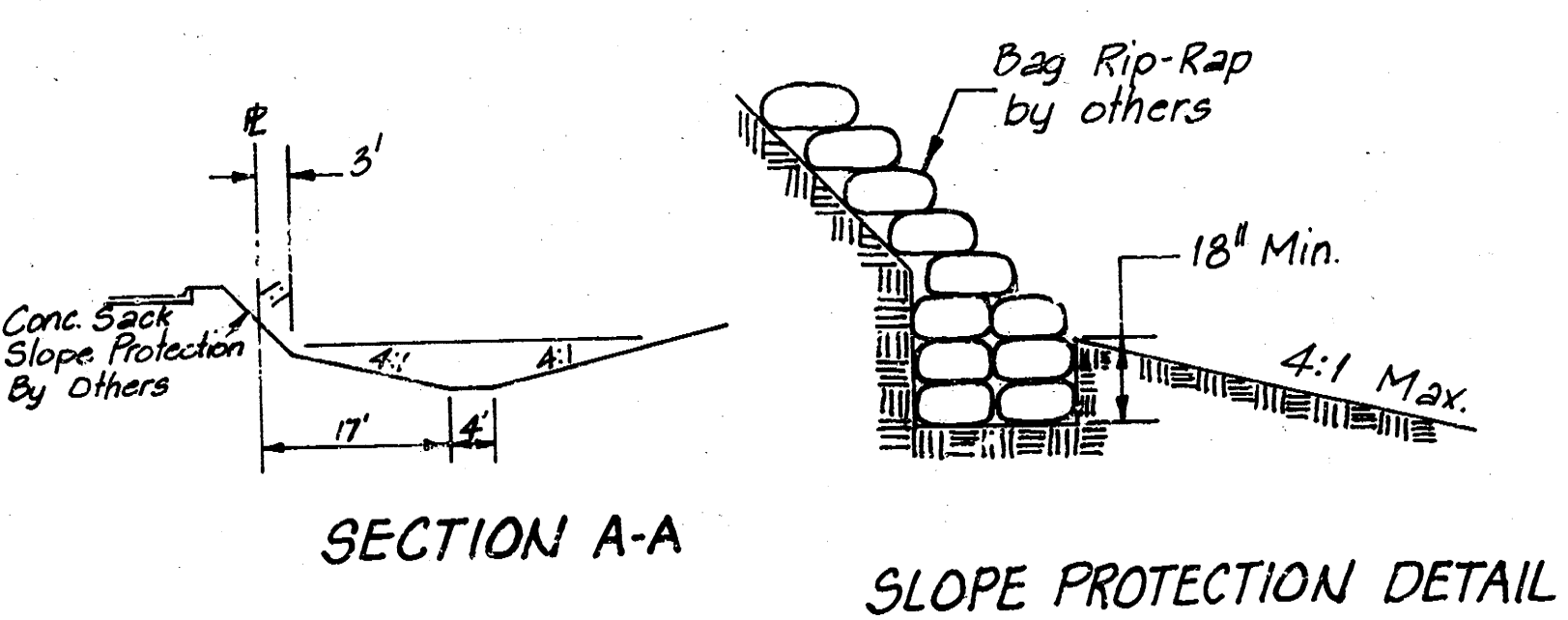
Trees and shrubs in public right-of-way which are in direct conflict with proposed new construction shall be removed by the Contractor with the Engineer's approval. Trees and shrubs which are not in direct conflict with proposed new construction shall be saved and protected from damage.

The Contractor shall give all property owners and/or tenants of developed property directly abutting the construction of this project a minimum of ten (10) days advance notice prior to start of construction.

Only active building drain lines which connect actual buildings to the storm sewer system are to be recommended to the new storm sewer construction. Building drain lines and/or connections which have been abandoned are not to be recommended to the new storm sewer construction. It will be the sole responsibility of the Contractor to ascertain which building drain lines and/or connections are active and which such drains and/or connections have been abandoned. All building drain line connections shall conform to the applicable sections of the City of Wichita Code. This work will be paid for at the unit price bid for the various sizes and types of pipe involved. Connection of building drain lines to storm sewer pipe will be paid for at the unit price bid for Building Drain Line Connection and such connection shall be made in accordance with the details shown on the plan.

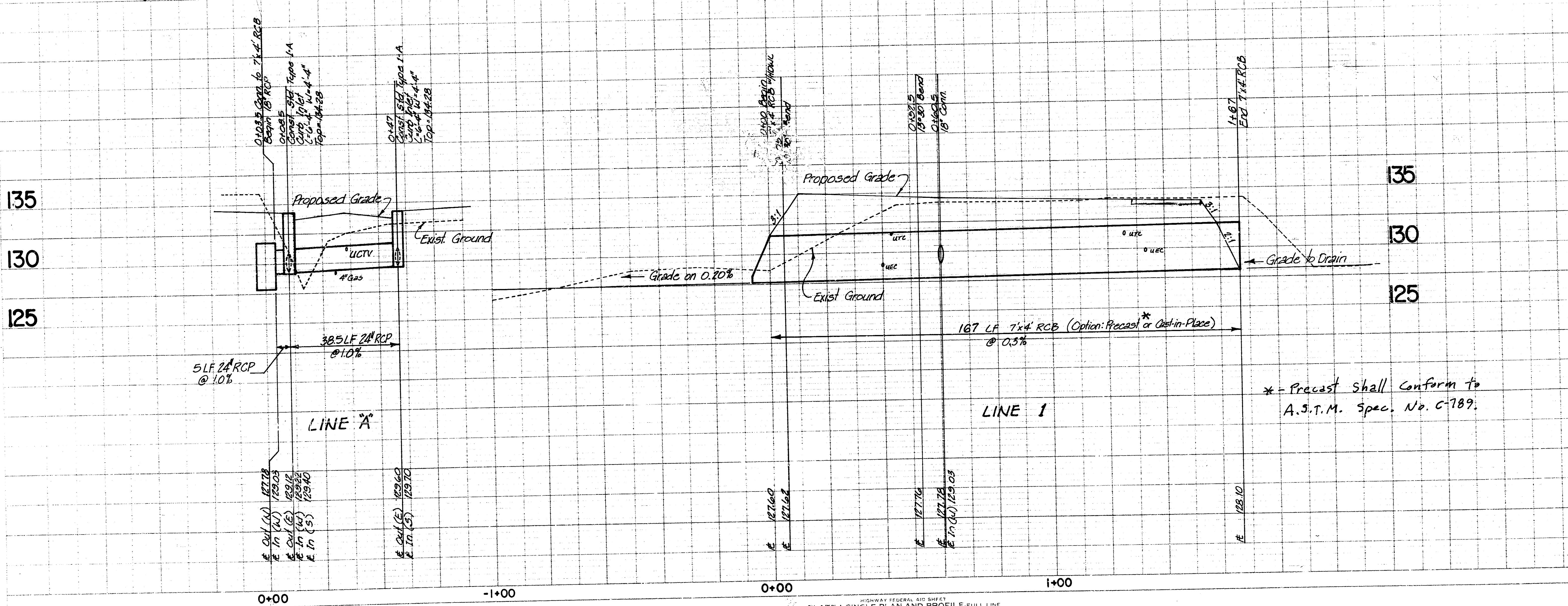
The Contractor shall be responsible for preserving property from. The Contractor will be required to re-establish any property from which are damaged or destroyed by his construction operations. Such from shall be re-established by a licensed land surveyor or a licensed professional engineer in accordance with state laws.

Storm sewer construction which occurs below water table elevations at the time of construction shall meet certain infiltration requirements as specified herein, when such construction discharges into a closed system or pumping station. Infiltration into such storm sewer construction shall not exceed an allowance greater than 300 gallons per each inch of vertical distance, which vertical distance shall not exceed the vertical diameter of the construction. The flow line of the sewer is below the water table elevation per mile of storm sewer per day for each inch diameter. Infiltration shall be considered as sections of sewer for purposes of determining the maximum allowable leakage.



B.M. *1 - 50d Step in P.P.
Sta. 8+16, 36' Rt. El. = 145.85

B.M. *2 - Chiseled "a" Top of Sidewalk
Sta. 12+50, 46' Lt. El. = 135.33



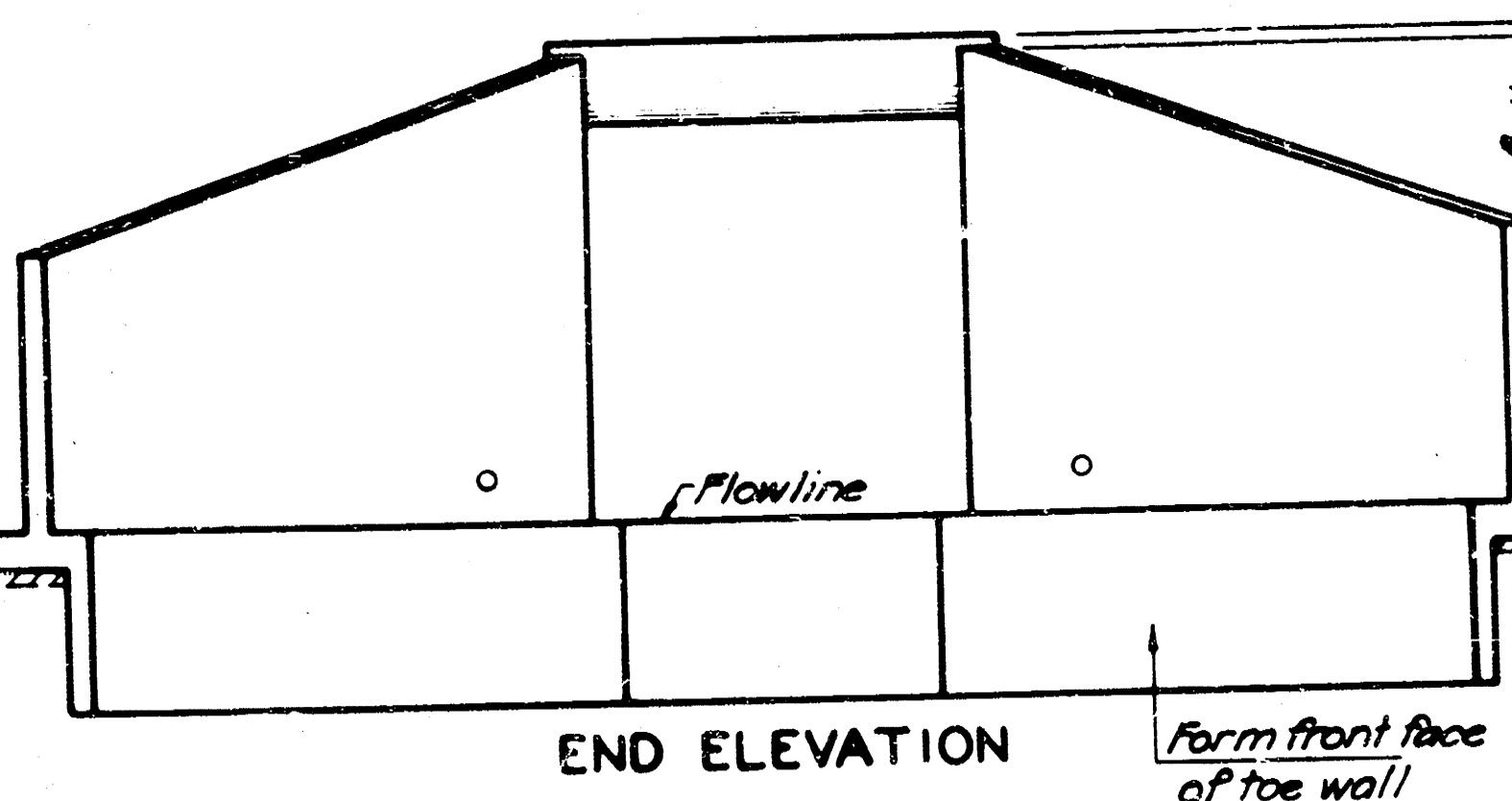
CITY OF WICHITA, KANSAS
MICHAEL E. LINDEBAK, P.E., CITY ENGINEER

PAVING IMPROVEMENT OF NEW JERSEY
FROM
OLIVER TO 370 ± WEST

CITY PROJECT NO. 472-76-245-81809-000-000-001

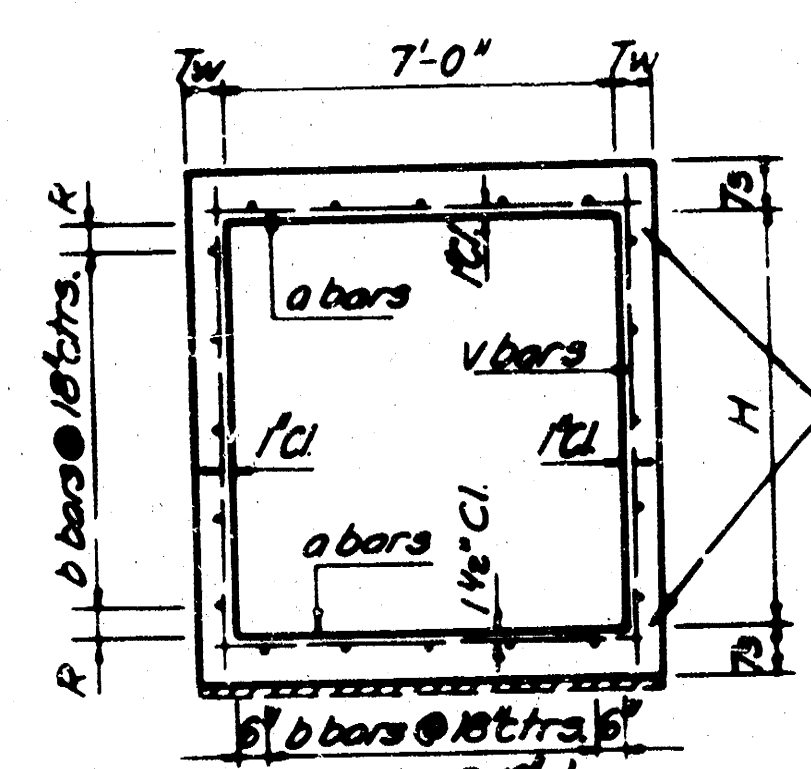
Booker/Freund
Engineers Architects Planners

SCALE NOTED DATE JULY, 1988 DWS. NO. 4 of 10



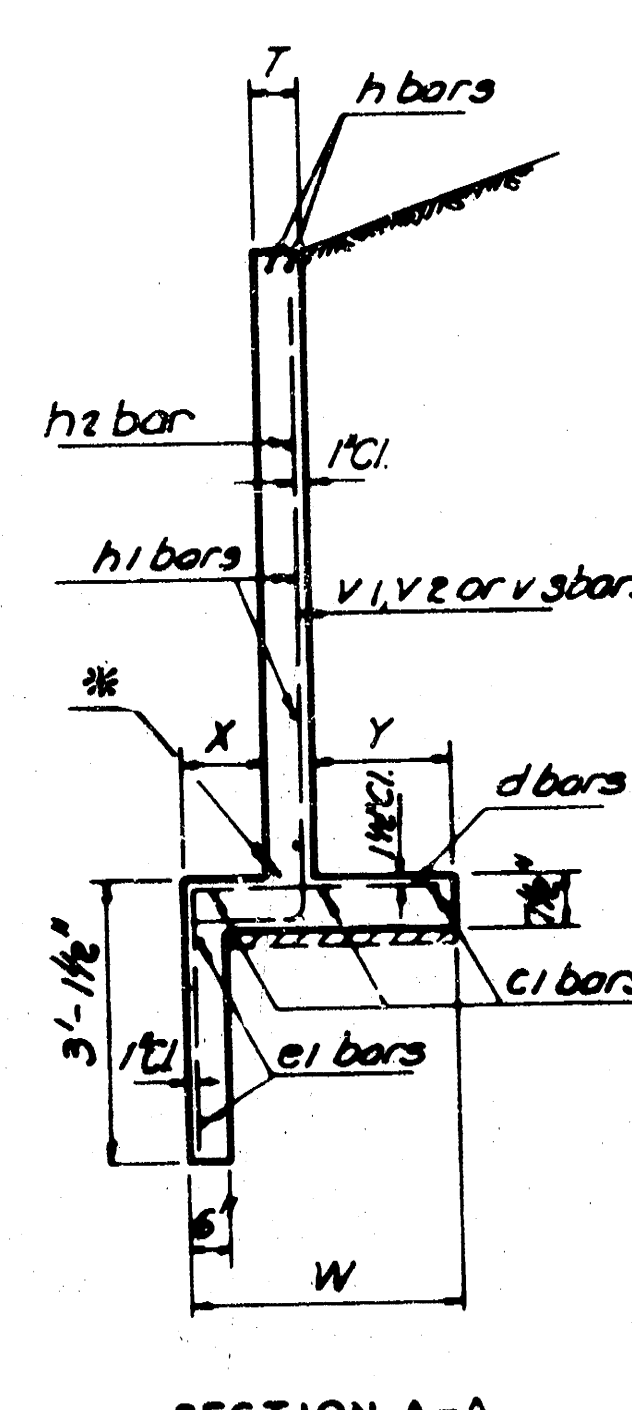
ELEVATION AND SECTION

Note: All keyed joints and v
bars shall be placed vertical!



SECTION B-B

* Optional Construction Joints
(May be constructed at the Contractor's option.)



SECTION A-Δ

PLAN AND SECTION

GENERAL NOTES

LOADING: H20-44 AASHTO Specifications, Edition of 1969.
UNIT STRESS53: ft-3000 p.s.i.; ft-1,200 p.s.i.; ft-20,000 p.s.i.
Class A Concrete shall be used throughout. Bevel all exposed edges with a $\frac{3}{8}$ " triangular mounding unless otherwise noted.
All dimensions relative to reinforcing steel are to center line of bar unless otherwise noted.
Seal Course, consisting of 3" of Class A Concrete, shall be constructed only where specified on the Plans or by the Engineer. No reinforcing shall be placed until the Seal Course has gained sufficient strength to permit working upon it without injury.
Flooding Apron shall be constructed only between downstream wings in locations subject to scour where specified on the Plans or by the Engineer.
Wire reinforcing mesh shall be electrically welded and shall be composed of No. W14 wire at 6" centers each way. Weight of reinforcing mesh shall be classified as pounds of reinforcing steel.
Payment for additional quantities resulting from including Seal Course and or Floating Apron as a change in the original plans, shall be made at the Unit Price bid for the various items involved.
Course aggregate shall be deposited behind each weep hole to occupy a space extending 15" in all directions above the weep hole flowline. This work shall not be paid for directly, but shall be considered a part of the excavation work.
Keyed Joints shall be provided as shown on all culverts where the box length is 134' or more. These joints shall be spaced so as to divide the box into sections of equal length.
The number of joints to be used shall be as follows; 40' to 80'- 1 joint; 80' to 120'- 2 joints; 120' to 160'- 3 joints, etc.

The quantities shown in Culvert Summary include Apron and or Soil Saver quantities if they are to be constructed.

The Contractor may, at his option, substitute No. 4 steel reinforcing bars for the keyed construction joints. Rebars are to be a minimum of thirty (30) inches in length, set so the joint divides the bar equally and these extra rebars will be required in each plane of steel in the culvert. The extra steel required will not be paid for directly but will be considered subsidiary to other items in the contract.

BENDING DIAGRAMS

Design Note Length $b_1 = b + X + 2 \cdot 9"$

LIST OF BARS AND DIMENSIONS

FHWA REGION NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	KANSAS			5	10

[illegible]

7x3x														
Apron Sheet (One)			23 Lbs	Seal Course			C.Y. Hwtl Concrete (Two)							6.778 C.Y.
Apron Concrete (One)			1.849 SF	Apron Seal Course			C.Y. Concrete Per Ft of Box							C.Y.
Letter	A	B	C	H	K	T	Ts	Tw	W	X	Y	Z	a	v
Dimension	8'-3"	5'-10"	4'-9" ± ETW	3'-0"	9'	6"			8'-6"	1'-0"	FO	Space		
Bar	a	b	b ₁	c	c ₁	d	e	e ₁	f	g	h	h ₁	i	i ₁
Number			10	2	12	36	4	8	4	8	8		8	12
Size		#4	#4	#4	#4	#4	#4	#4	#5	#5	#4		#4	#4
Length				10'-0"	10'-0"	5'-1"	8'-0"	8'-3"	7'-9"	9'-9"	9'-6"		5'-2"	4'-0"

7'x4"x 16 T'															CY	Hdlw Concrete (One)	4.360 C.
Apron Steel(One)			30 Lbs			Seal Course									CY	Hdlw Concrete (One)	4.360 C.
Apron Concrete(One)			2393 CY			Apron Seal Course									CY	Concrete Per Ft of Box	G.
Letter	A	B	C	H	R	T	W	X	Y	Bar	a	v					
Dimension	10'-3"	7'-3"	4'-9 1/8"-2 W	4'0"	6"	6"	7 1/2"	6"	2'-6"	1'-0"	1'-0"	Space	5/8"	1'-6"			
Bar	a	b	b i	c	c i	d	e	e i	f	h	h i	h e	v	v i v 2			
Number	#28	b	5	1	G	22	2	4	2	-	4	2	224	G G G			
Size	#4	#4	#4	#4	#4	#4	#4	#5	#5	#4	#4	#4	#4	#4			
Length	7'-9"	33'-2	37'-8	10'-0	12'-3	5'-11	8'-0	10'-5	7'-9	11'-3	11'-6	8'-8	5'-0	5'-10 4'-7			

7x5x															CY Howl Concrete (Two)		11.208 C.	
Apron Steel (One) 36 Lbs Seal Course															CY Concrete Per Ft of Box		C.	
Apron Concrete (One) 3,000 Gals Apron Seal Course																		
Letter	A	B	C	H	K	T	Ts	Tw	W	X	Y	Bar	a	V				
Dimension	12'-3"	8'-6"	3'-6" x 2'-10"	5'-0"	3'-6"	6'-0"	6'-9"	1'-0"	1'-3"	Space								
Bar	a	b	b1	c	c1	d	e	e1	g	h	h2		v	v2				
Number			10	2	12	52	4	4	4	12	4		16	12				
Size		4	4	4	4	4	4	4	4	4	4		4	4				
Length				10'-0"	14'-9"	5'-4"	8'-0"	12'-3"	7'-9"	13'-9"	13'-6"	7'-6"	6'-0"	5'-4"				

7x6xK															CY Hdwy Concrete (Type 3)		14.538 C	
Apron Slab (One)		47 Lbs		Seal Course		CY Concrete Per Ft of Box		CY Concrete Per Ft of Box		C								
Apron Concrete (One)		3.675xK		Apron Seal Course														
Letter	A	B	C	H	K	T	75	7W	W	X	Y	Bar	a	V				
Dimension	14'-3 1/4" 06	14'-7 1/2" 06	27W	5'-0" 9"	6 1/2"				3'-0"	1'-0"	1'-5 1/2"	Space						
Bar	a	b	b	c	c	e	d	e	e	g	g	h	h	V	V			
Number			10		2	12	60	4	8	4	12	4		20	12			
Size			#4		#4	#4	#4	#4	#5	#5	#4	#4		#4	#4			
Length					10'-0"	17'-0"	5'-7"	8'-0"	14'-3"	7'-0"	15'-9"	15'-6"	10'-0"	7'-0"	6'-0"			

7x7x															CY Hdlw Concrete (Two)		18.83 C	
Apron Steel (One)			57 Lbs		Seal Course		CY Concrete per Ft of Box											
Apron Concrete (One)			4.42 SX		Apron Seal Course													
Letter	A	B	C	H	K	T	Zs	TW	W	X	Y	Bar	a	v				
Dimension	16'-3"	11'-5 1/2"	6'-4 1/2" + ETW	7'-0"	6'-1"	7'-1"			3'-5"	1'-0"	1'-0"	5' Splice						
Bar	a	b	bi	c	ci	d	e	ei	g	h	hi	he	v	v1				
Number		10		2	12	68	4	8	4	8	16	4	20	16				
Size		#4	#4	#4	#4	#4	#4	#4	#5	#5	#4	#4	#4	#4				
Length				10'-0"	19'-6"	6'-0"	6'-0"	16'-3"	7'-11"	17'-1"	17'-7"	6'-10"	6'-0"	16'-0"				

7'x															CY Hdw/ Concrete (Typ)	
Apron Steel (One)			Lbs Seal Course			CY Concrete Per Ft of Box										
Apron Concrete (One)			CY Apron Seal Course													
Letter	A	B	C	H	T	Ts	Tw	W	X	Y	Bar	a	v	vi		
Dimension											Space					
Bar	a	b	b1	c	c1	d	e	e1	g	h	h1	h2	v	v1		
Number		10		2	12		6	8	4	8						
Size		#8	#2	#4	#4	#4	#6	#4	#5	#8	#6		#4	#6		
Length				10'-0"												
											4.5 to Rebar Quan. Rev. Conc. &		N.H. L.			

5	4-5-79	Rebar Quan. Rev. Conc. & Clm. Fence Bo.	W.L.H.	L.R.P.
6	4-26-77	Keyed Joint Option	W.L.H.	L.R.P.
9	10-17-73	Wire Reinf. Mesh Changed to W14	W.L.H.	K.G.L.
2	10-27-72	Size AA5HD Des. M32-72T	W.L.H.	K.G.L.
1	5-19-72	Removed 12" Uniform Pbl. Sections	W.L.H.	K.G.L.
NO	DATE	REVISIONS	BY	APPD

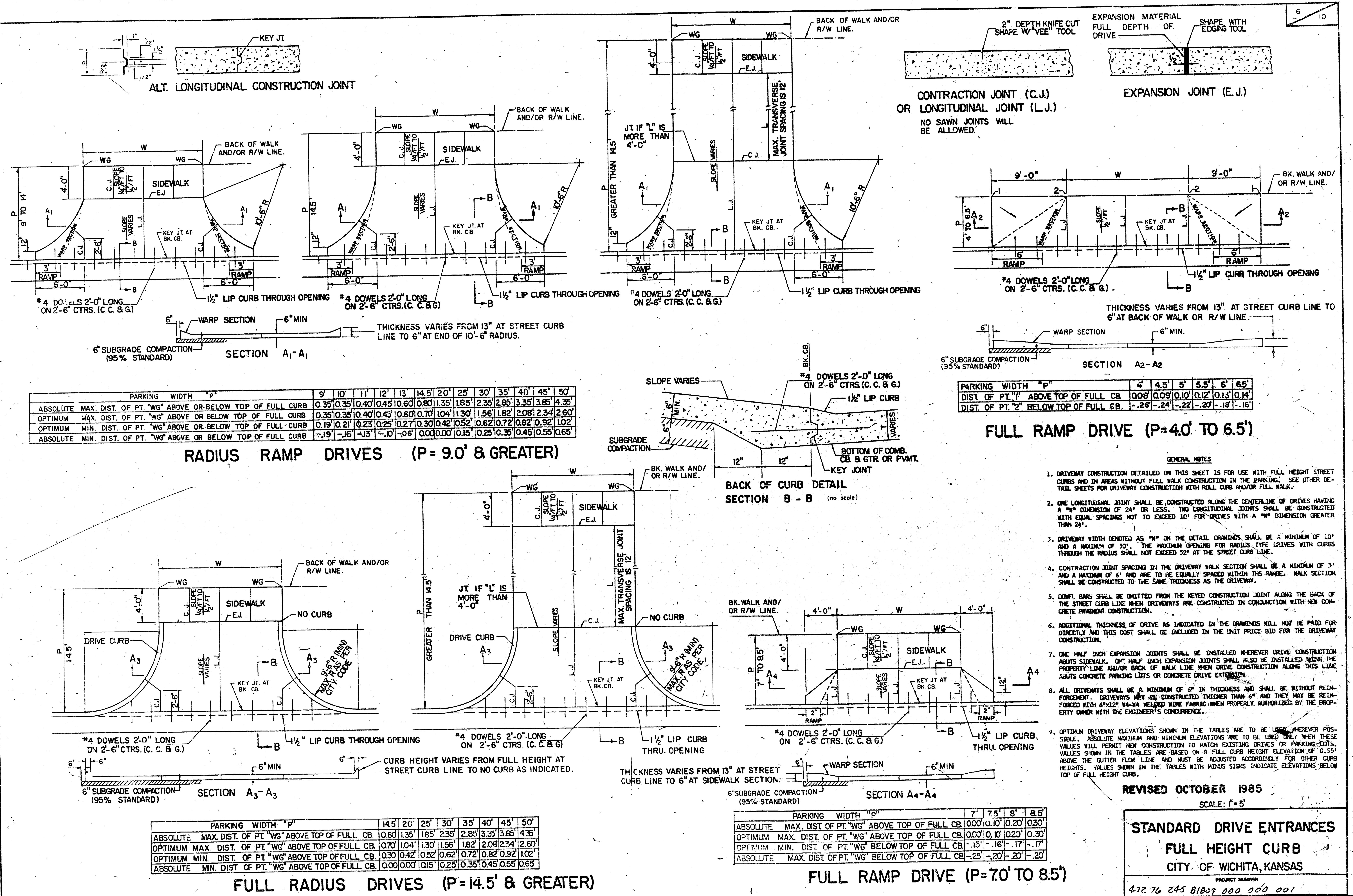
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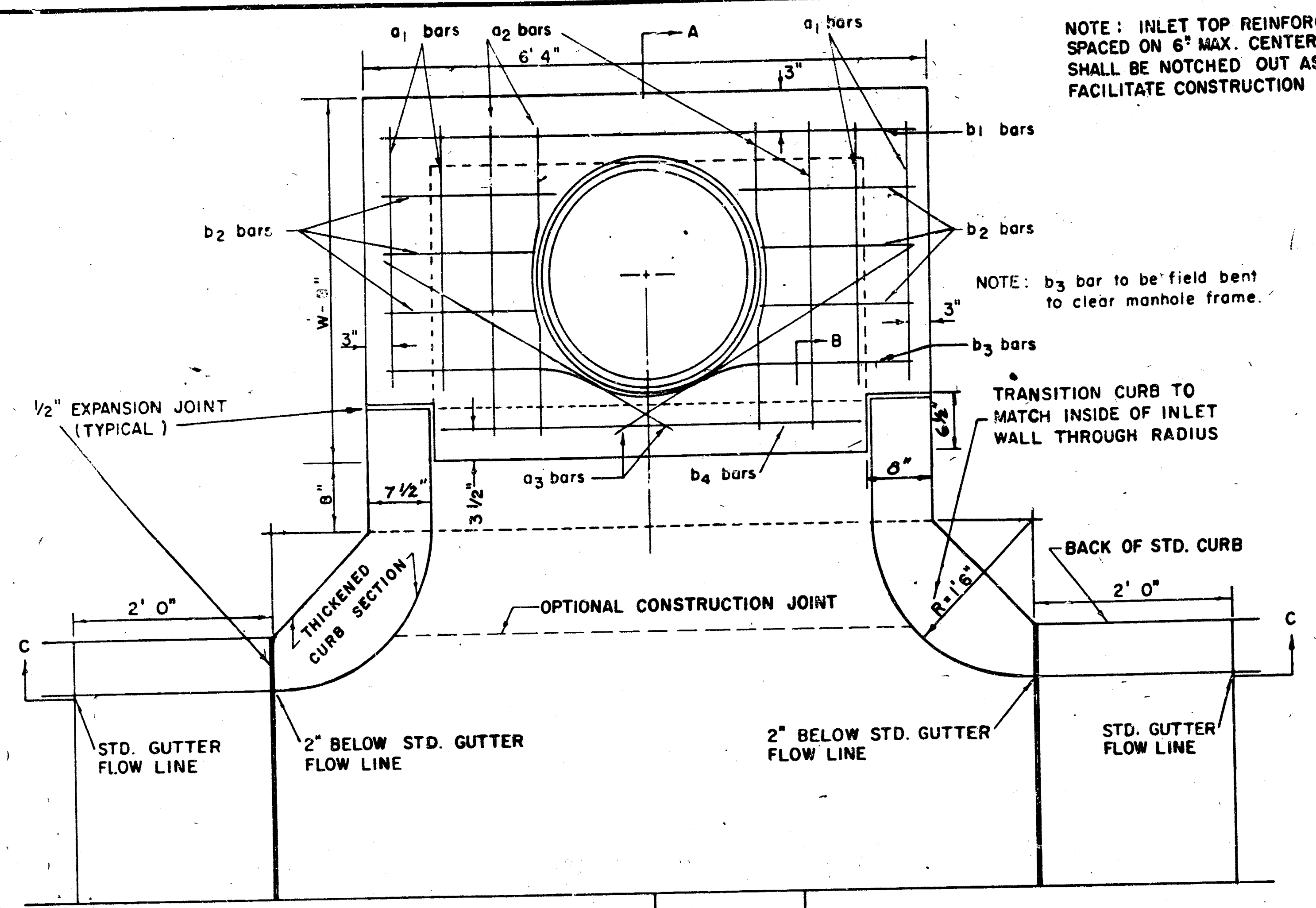
R.C. BOX CULVERT
7 FT. SPAN

REVISED 11-7-88 KK

SHEET NO 5 OF 7	SCALE	APP'D <i>K. H. Lancaster</i>
DESIGNED <i>Bauman</i>	DETAILED <i>Richards</i>	QUANTITIES <i>Richard</i> TRACED <i>Booth</i>
DESIGN CK <i>Latham</i>	DETAIL CK <i>Schwartz</i>	QUAN CK <i>Clennon</i> TRACE CK <i>Hocht</i>

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PLAN

STEEL SCHEDULE

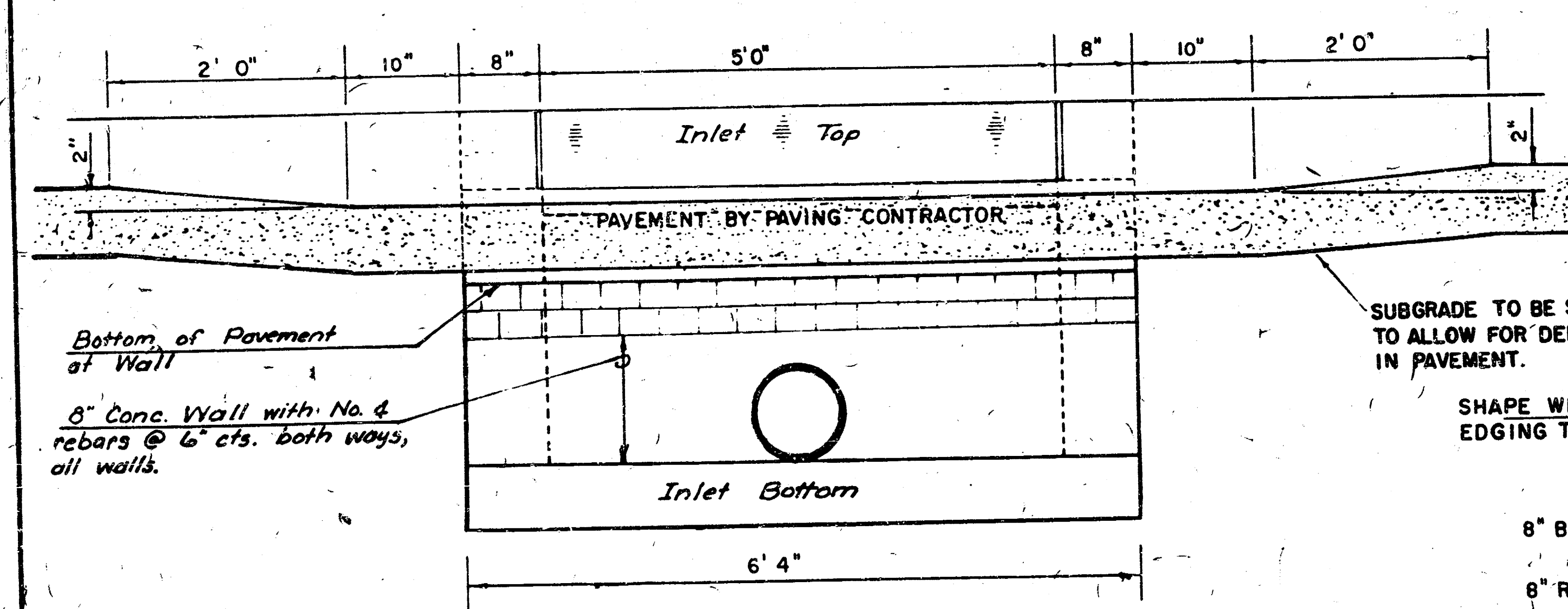
BAR	a ₁	a ₂	a ₃	b ₁	b ₂	b ₃	b ₄	WT. LBS.
NUMBER	4	4	2	1	3	7	9	
SIZE	#4	#4	#4	#4	#4	#4	#4	
LENGTH	W=4'4" 5'7"	6'7"	4'0"	6'1"	1'9"	6'2"	4'8"	60 ±
	W=5'4" 7'7"	8'7"	5'0"	6'1"	1'9"	6'2"	4'8"	81 ±
	W=6'4" 9'7"	10'7"	6'0"	6'1"	1'9"	6'2"	4'8"	101 ±
	W=7'4" 11'7"	12'7"	7'0"	6'1"	1'9"	6'2"	4'8"	121 ±
	W=8'4"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

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

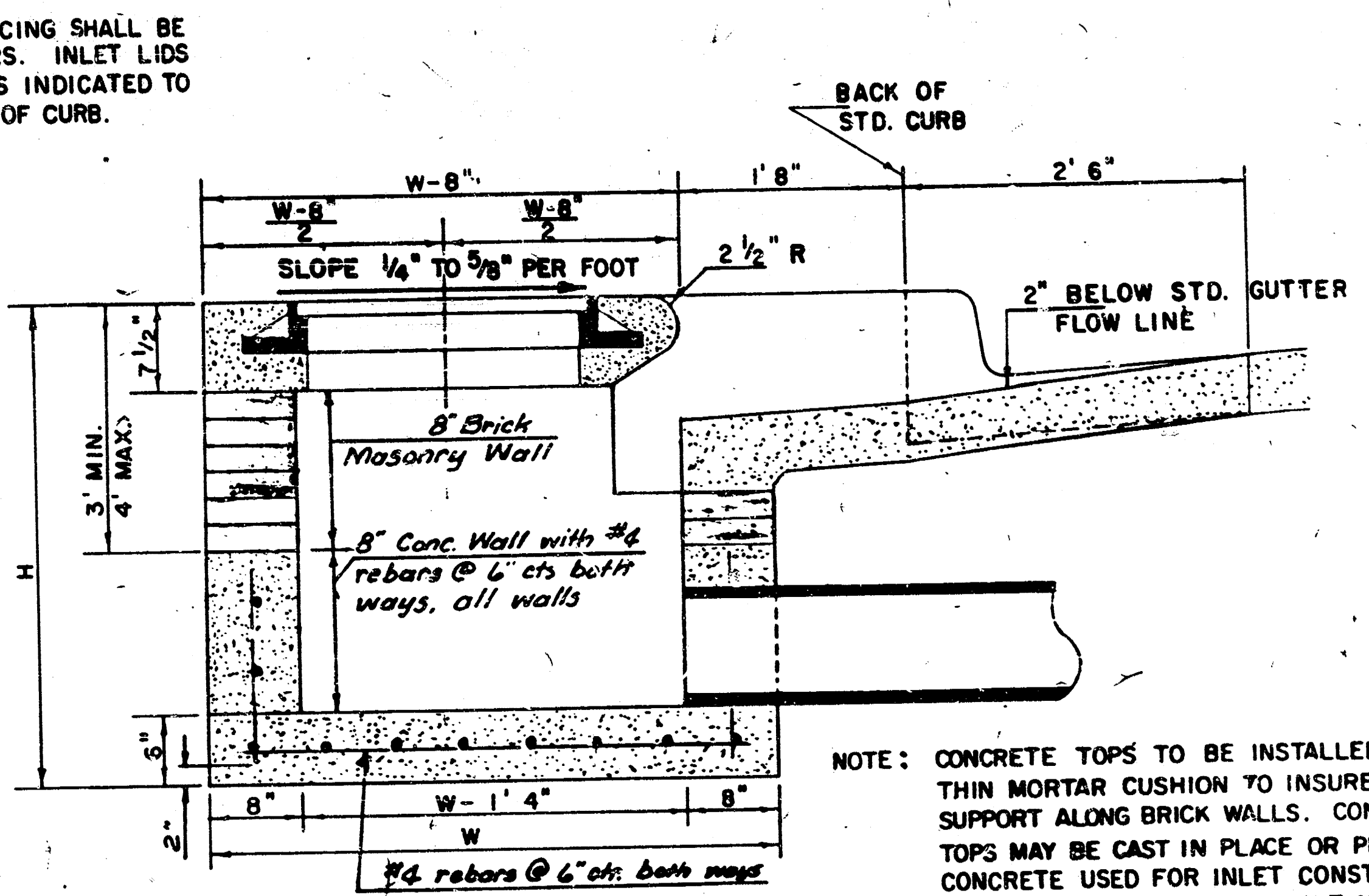
BENDING DIAGRAM

STANDARD CURB INLET PRECAST TOPS

W	PRE-CAST TOP SIZE	PIPE SIZE	CU. YD. CONC.
4' 4"	5' 8" x 6' 4" x 7 1/2"	21" & SMALLER	0.38 ±
5' 4"	6' 8" x 6' 4" x 7 1/2"	24" & 30"	0.51 ±
6' 4"	5' 8" x 6' 4" x 7 1/2"	36" & 42"	0.64 ±
7' 4"	6' 8" x 6' 4" x 7 1/2"	48" & 54"	0.77 ±
8' 4"	7' 8" x 6' 4" x 7 1/2"	60" & 66"	0.90 ±



SECTION C-C



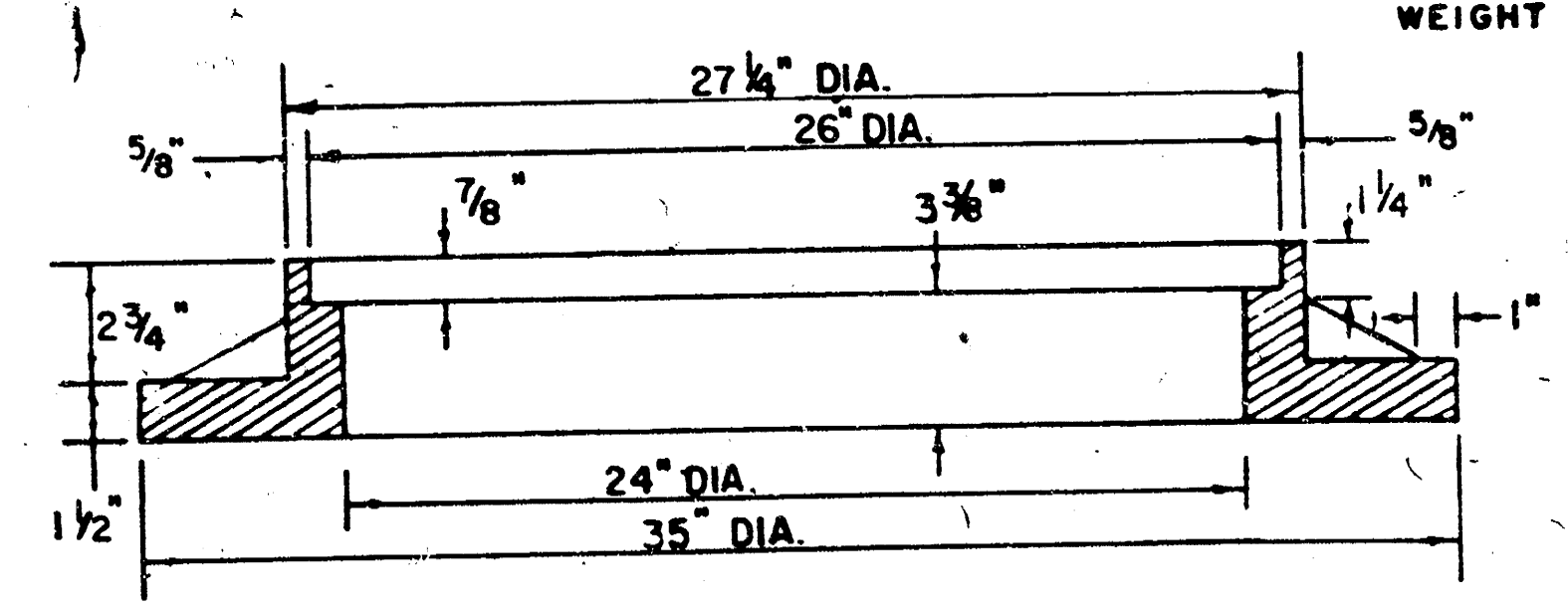
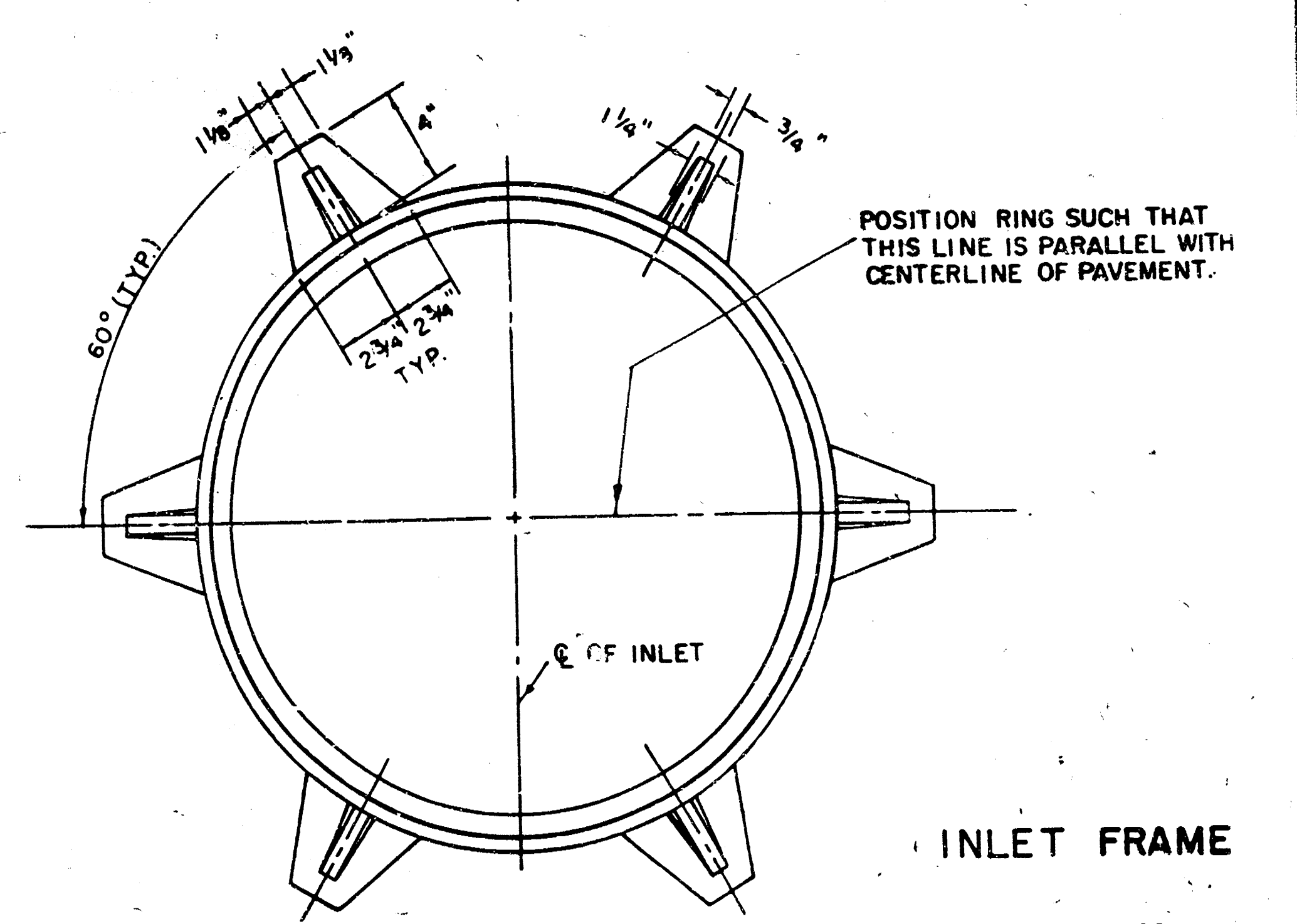
SECTION A-A

NOTE: CONTRACTOR SHALL HAVE THE OPTION OF CONSTRUCTING 8" BRICK MASONRY WALLS BETWEEN THE CONCRETE INLET BASE AND TOP ON THIS INLET WHEN W = 6' 4" AND H = 7' 0" OR LESS.

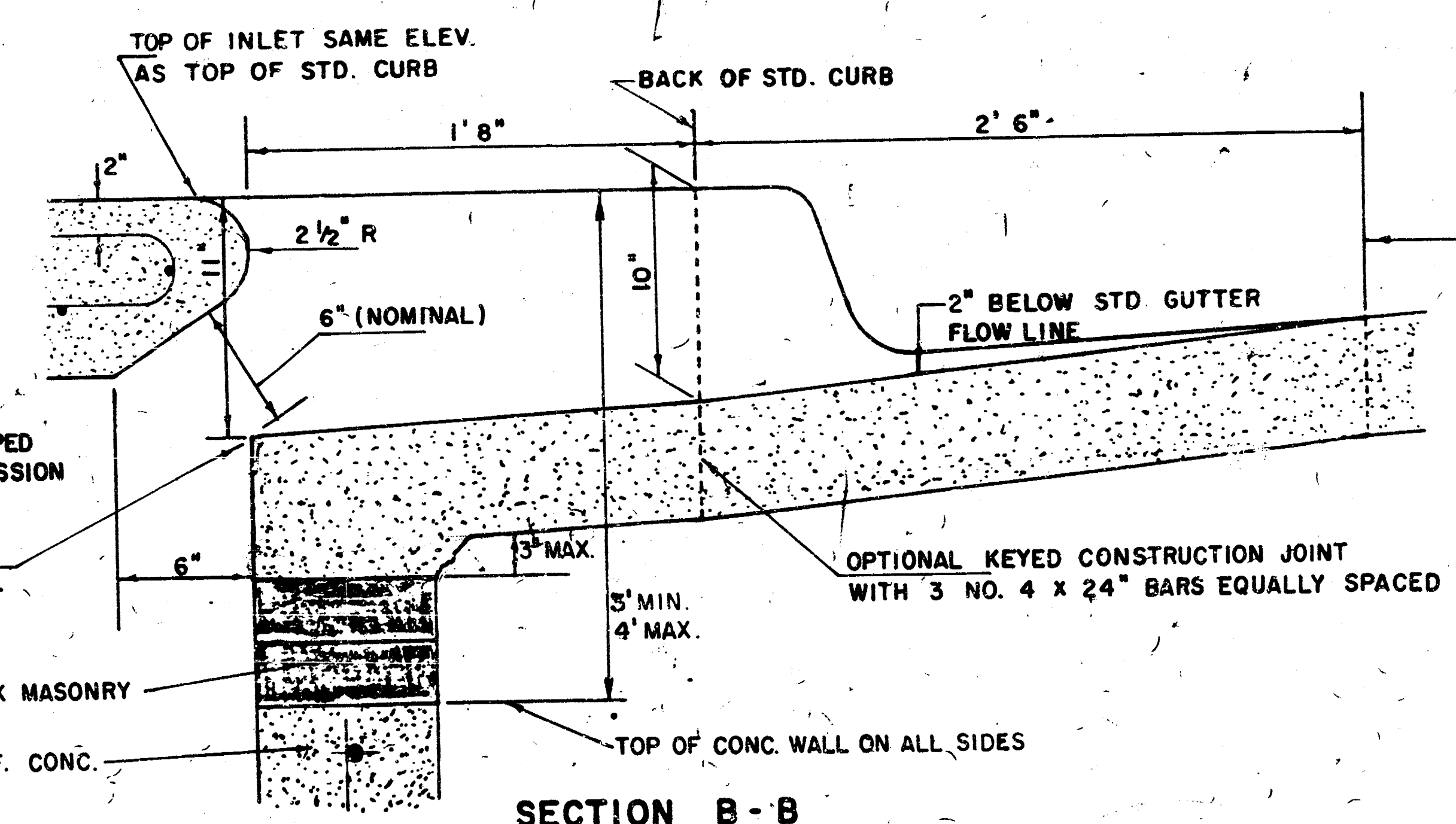
ADDITIONAL CURB AND GUTTER CONSTRUCTION NECESSARY TO CONNECT SET-BACK INLET TO PAVEMENT WILL BE PAID FOR AT THE UNIT PRICE BID FOR EACH INLET HOOKUP.

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.



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



SECTION B-B

REVISED 12-21-1984

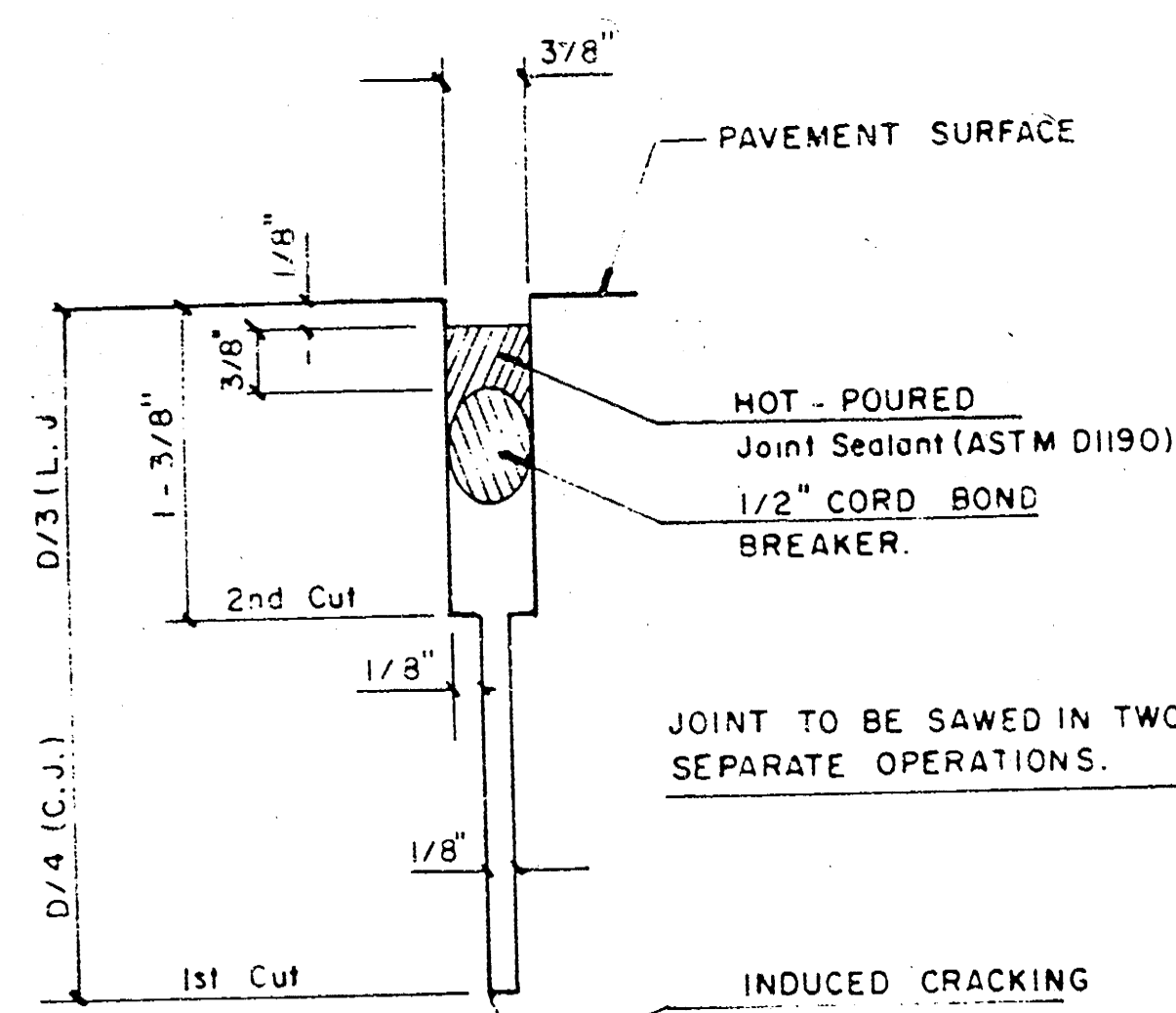
4-12 76 245 81809 000 000 001

DETAIL STANDARD TYPE IA CURB INLET

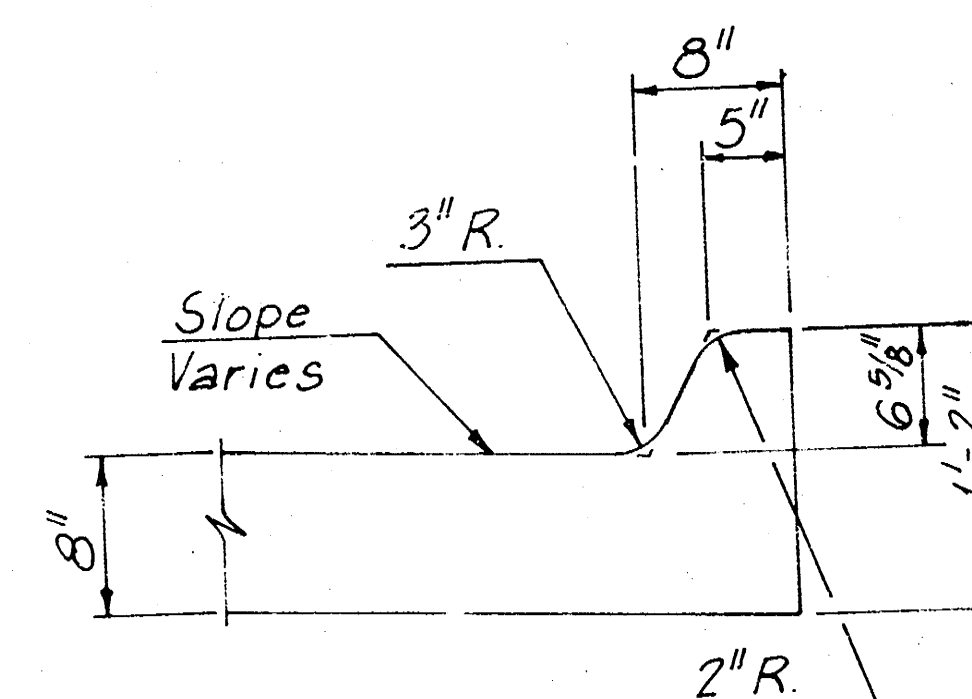
CITY OF WICHITA, KANSAS

INLET OPENING = 6" x 5' 0"

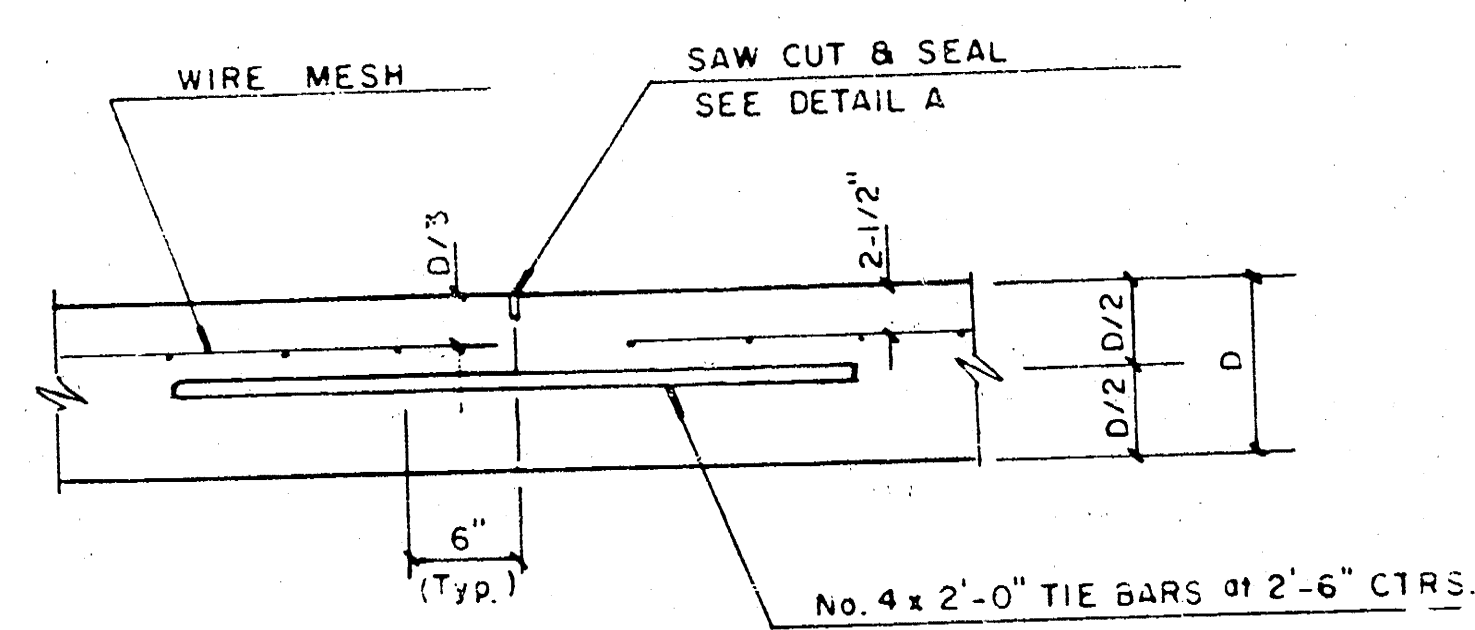
JUNE 1984



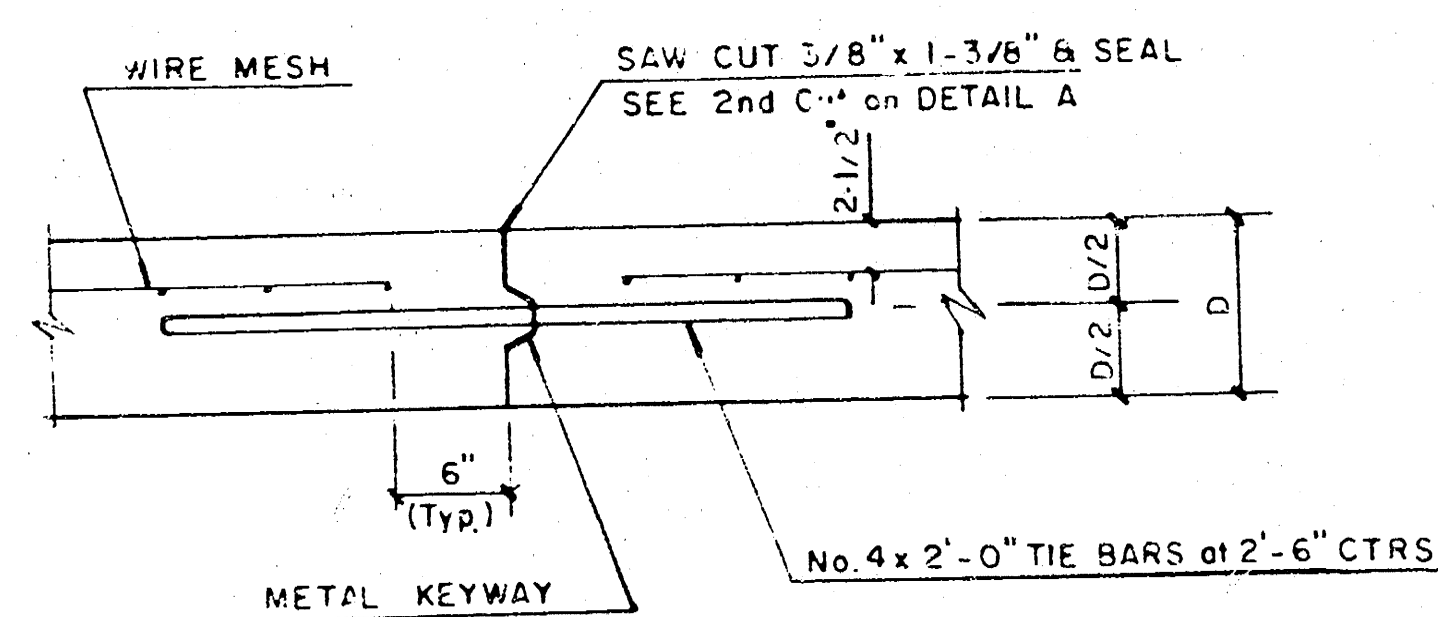
DETAIL A



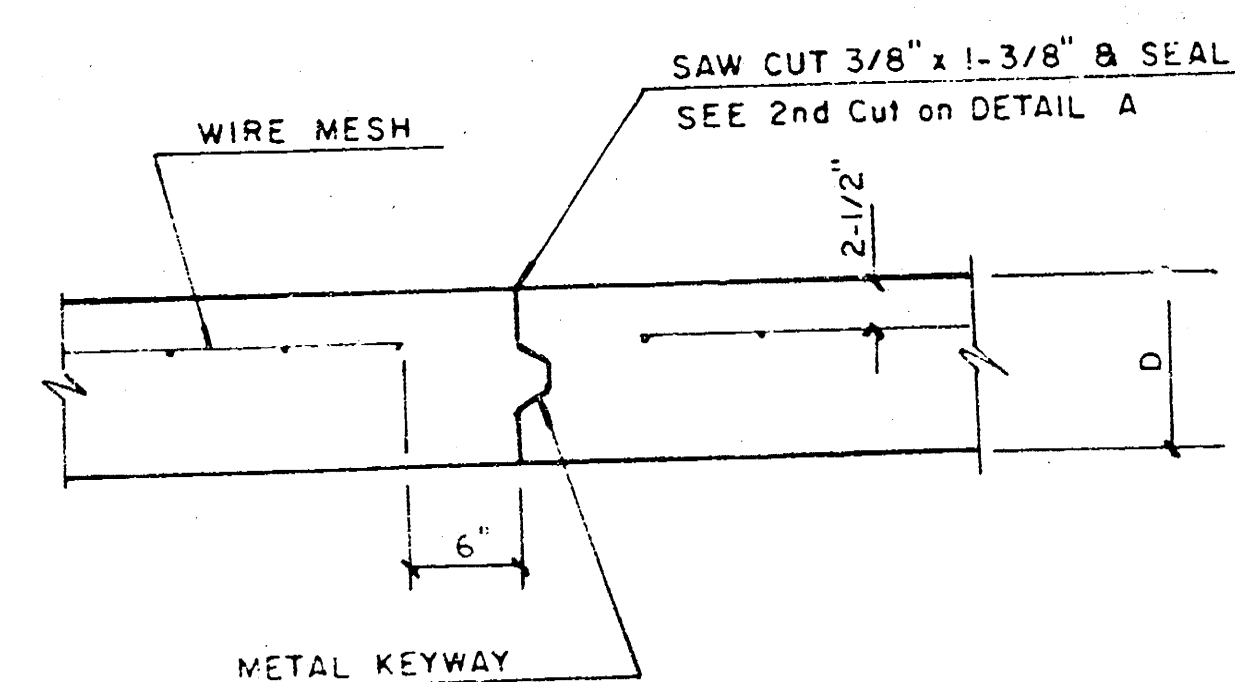
MONOLITHIC EDGE CURB
(Construct Curb Monolithically With Pavement)



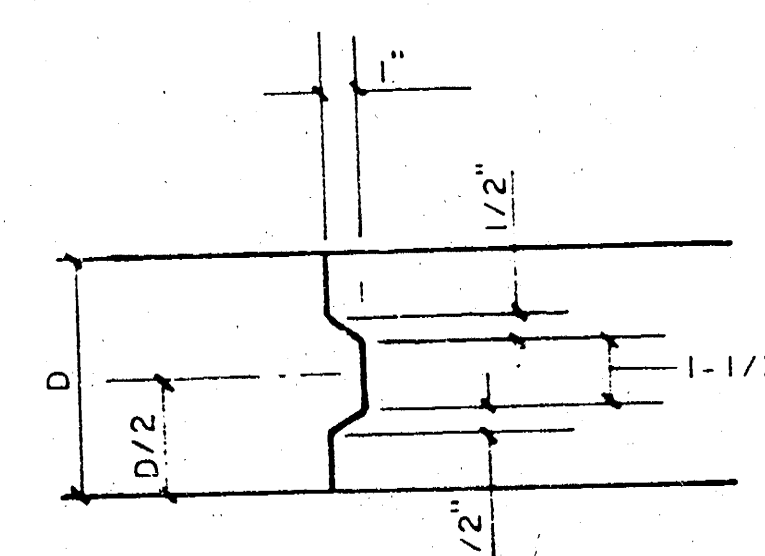
LONGITUDINAL JOINT DETAIL (L.J.)



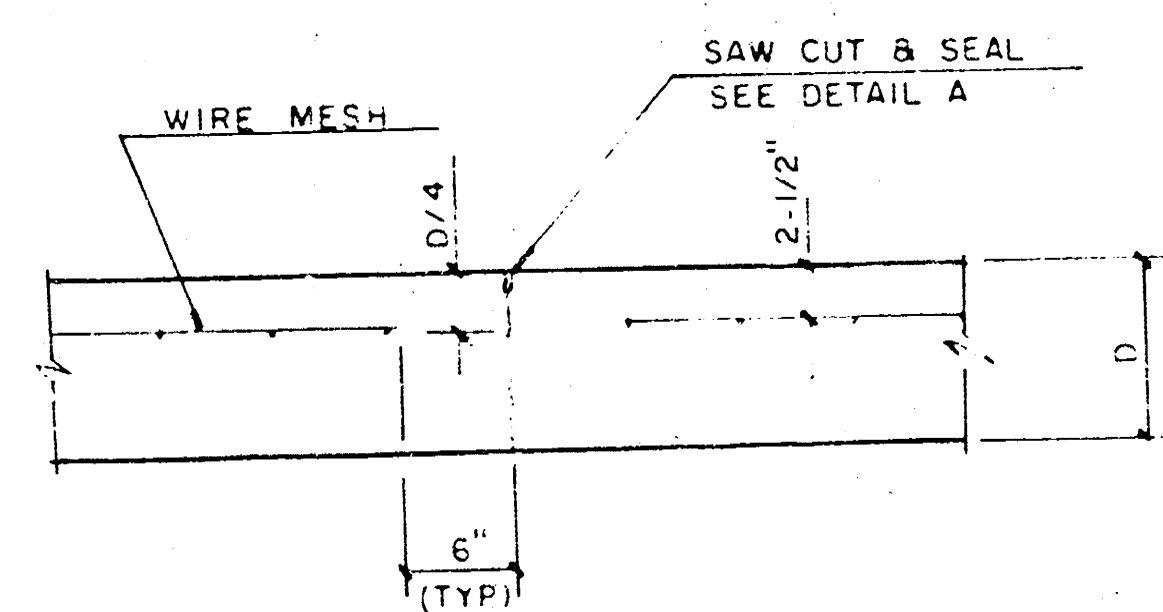
OPTIONAL LONGITUDINAL CONSTRUCTION JOINT (L.J.)
(Alternate L.J.)



OPTIONAL CONTRACTION CONSTRUCTION JOINT (C.J.)
(Alternate C.J.)

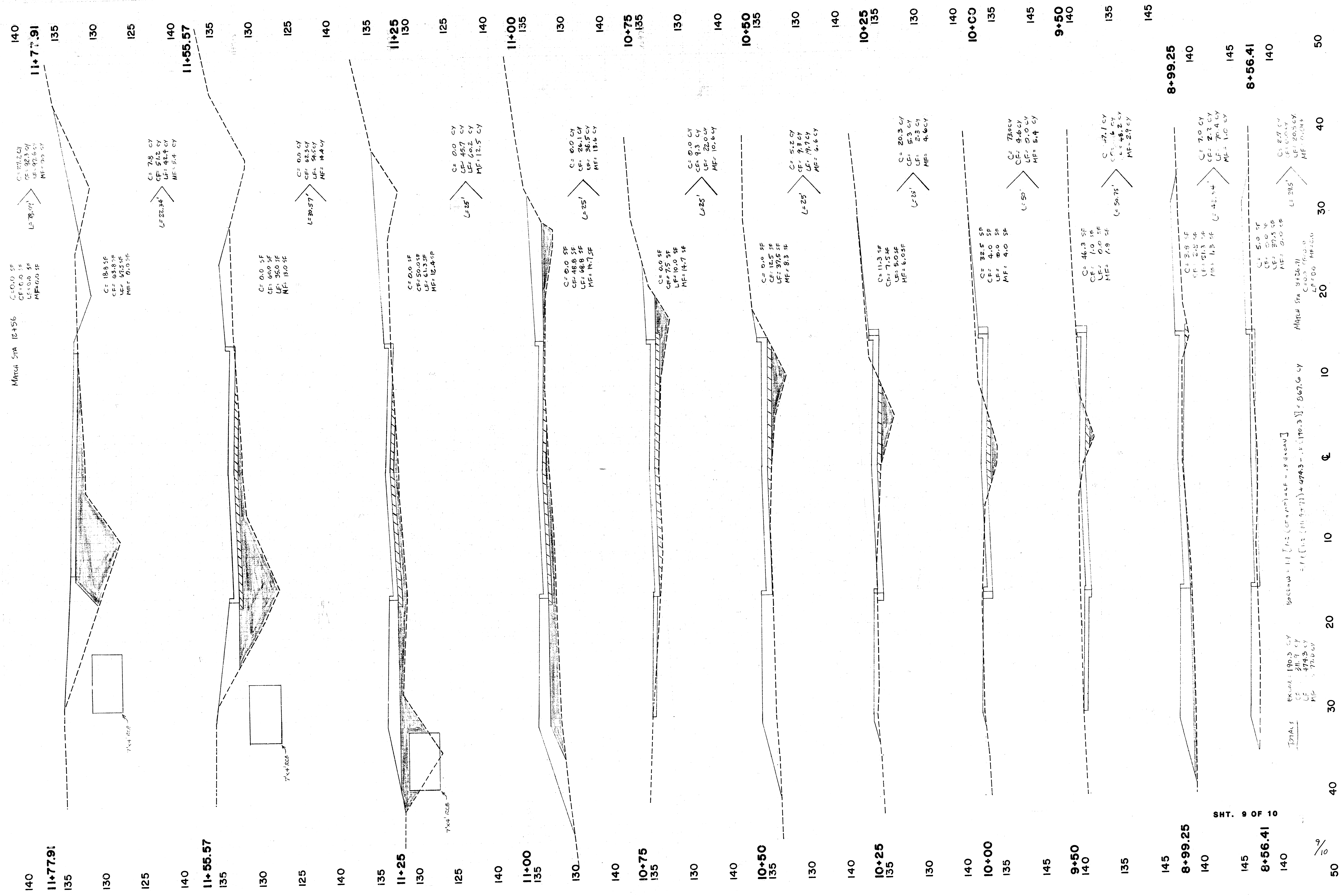


KEYWAY DETAIL



CONTRACTION JOINT DETAIL (C.J.)

CITY OF WICHITA, KANSAS			
MICHAEL E. LINDEBAK, P.E., CITY ENGINEER			
PAVING IMPROVEMENT OF NEW JERSEY			
FROM			
OLIVER TO 370 ± WEST			
CITY PROJECT NO. 472-76-245-81809-000-000-001			
Booker/Freund			
Engineers Architects Planners			
SCALE	N.T.S.	DATE	JULY, 1986
		DWG. NO.	8 of 10

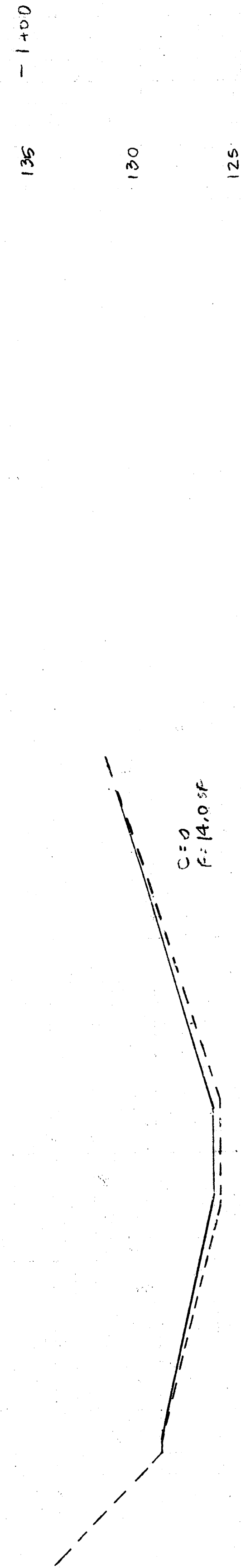


LOOKING NORTH

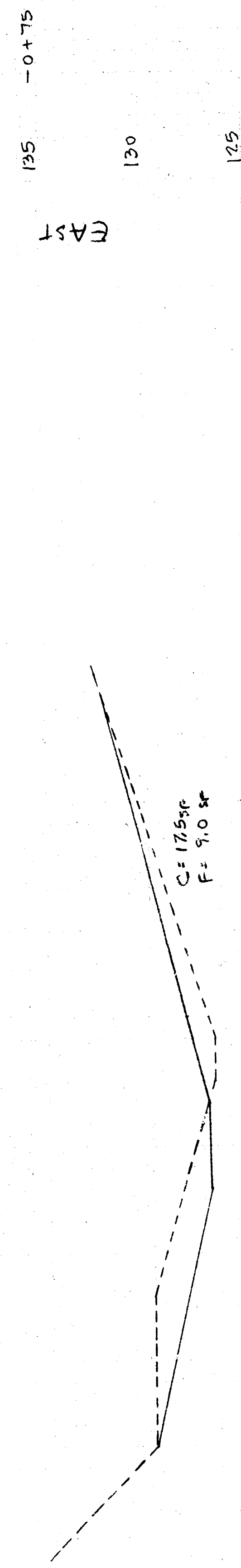
20 15 10 5 0 5 10 15 20

1425
C=0
F=0

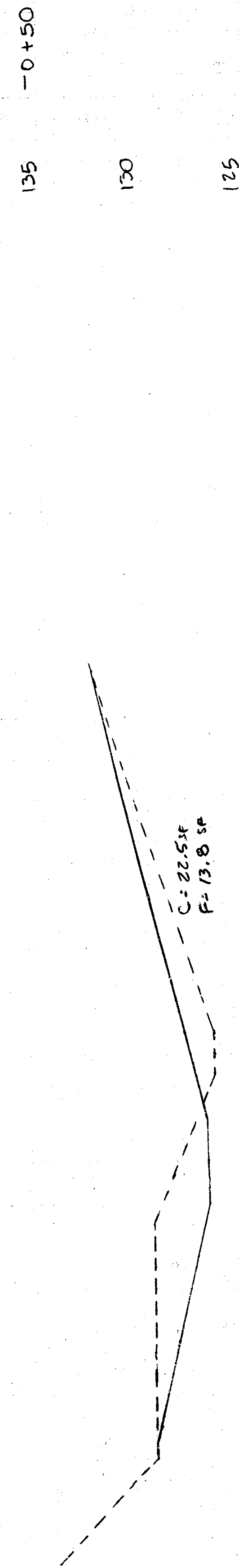
> C=0
F=6.5cy



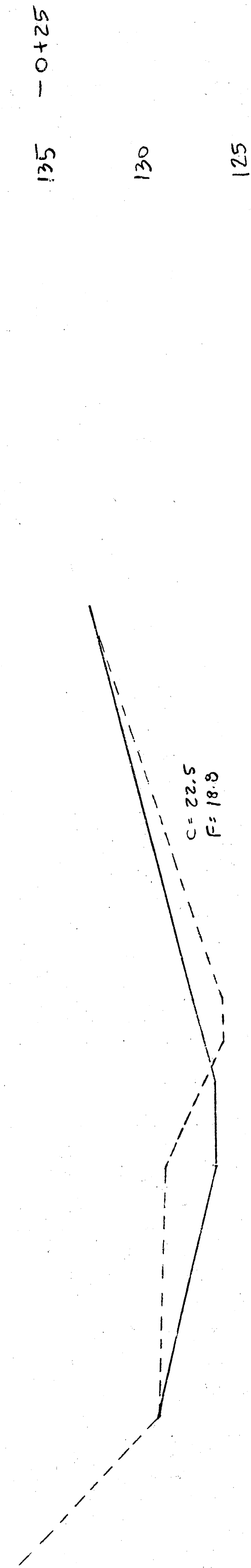
> C=8.1cy
F=10.6cy



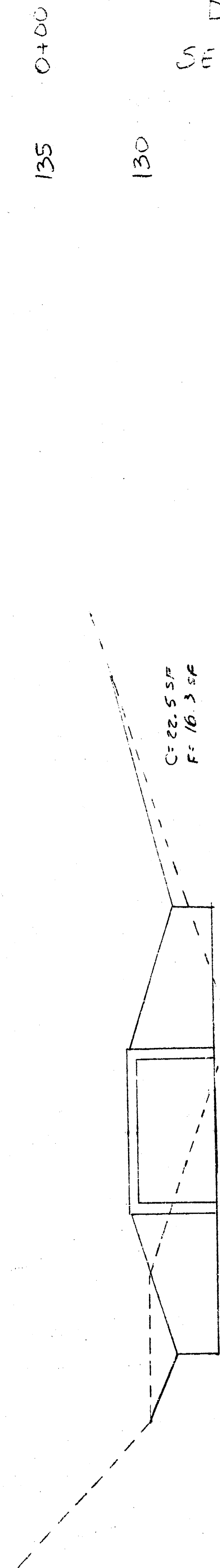
> C=18.5cy
F=10.6cy



> C=20.8cy
F=15.1cy



> C=20.8cy
F=16.3cy



TOTAL C=68.2cy
F=59.1cy

Bottom = 1.1 (1.12 F + 3.0)
= 1.1 (1.12 (78.3) + 3.0) = 58.0cy

DITCH
SECTIONS

25 20 15 10 5 0 5 10 15 20