

Street Improvements For  
**ASHLEY PARK II ADDITION**

BROWN THRUSH CIRCLE: From Brown Thrush Ct. to and Including Cul-De-Sac.  
 DOUGLAS: Cul-De-Sac Along the East Line Ashley Park II Addition.

Project No.

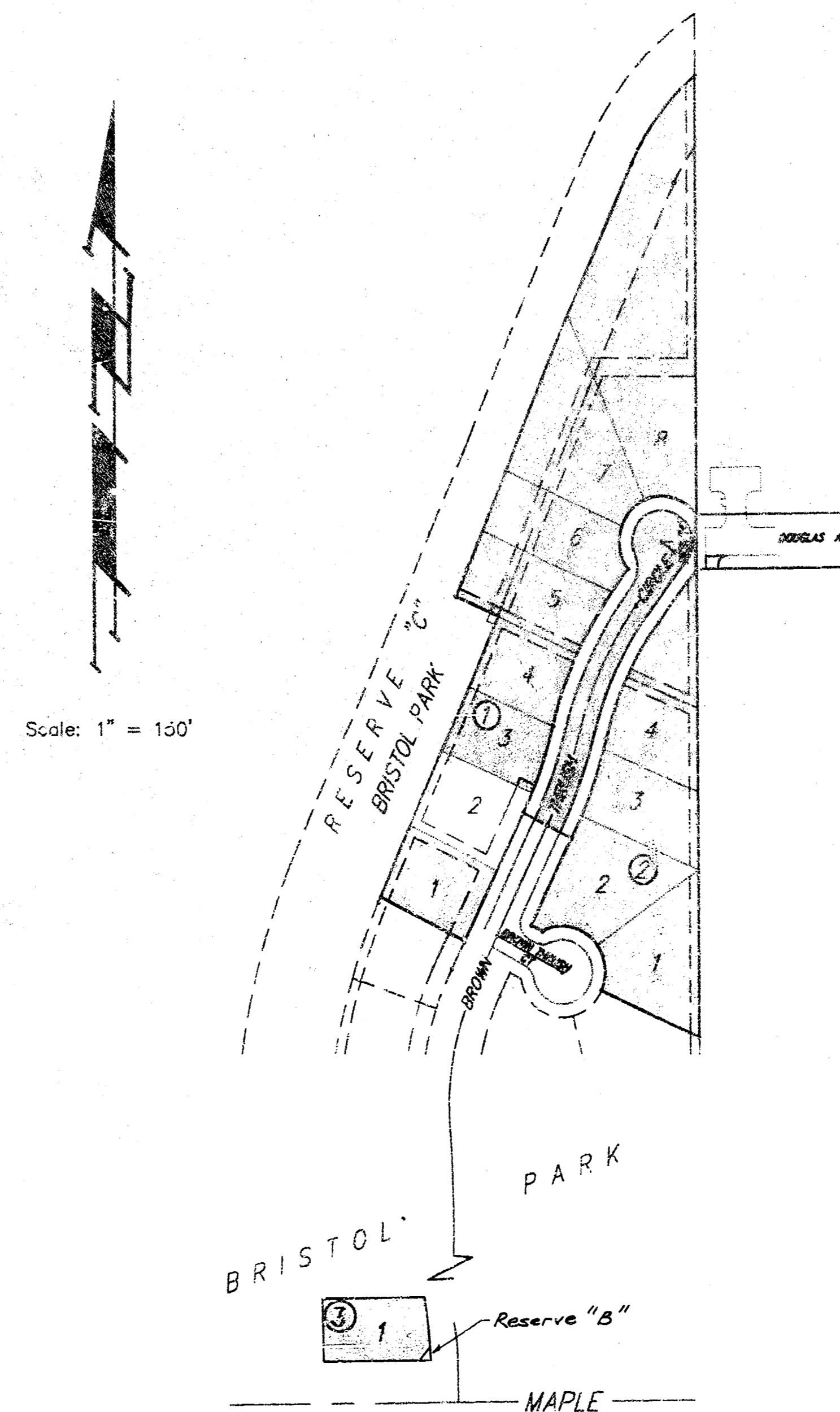
**472-76-245-82151-000-000-001**

City of Wichita, Kansas - Michael E. Lindebak, City Engineer

INDEX CODE 761155

**Index**

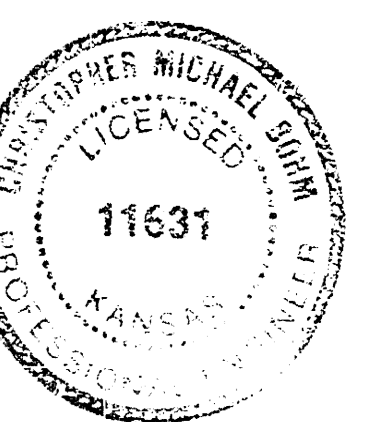
1. TITLE SHEET
2. TYPICAL 35' PAVEMENT SECTION
3. BROWN THRUSH CIRCLE
4. DOUGLAS AVENUE TURNAROUND PLAN
5. INCIDENTAL DRAINAGE
6. TYPE 1A INLET DETAIL
7. EARTHWORK CROSS SECTIONS
8. PLAT OF ASHLEY PARK 2ND ADDITION



Booked 2-12-93  
 Per Plan, L&P  
 D-199

**General Notes**

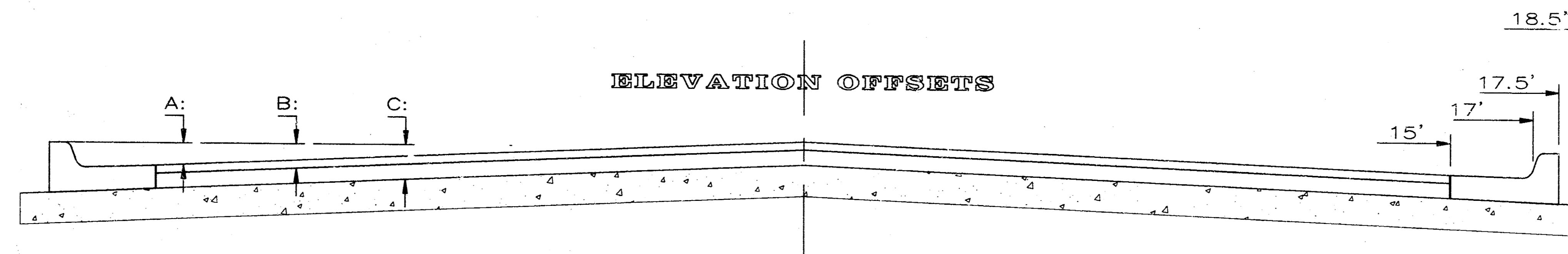
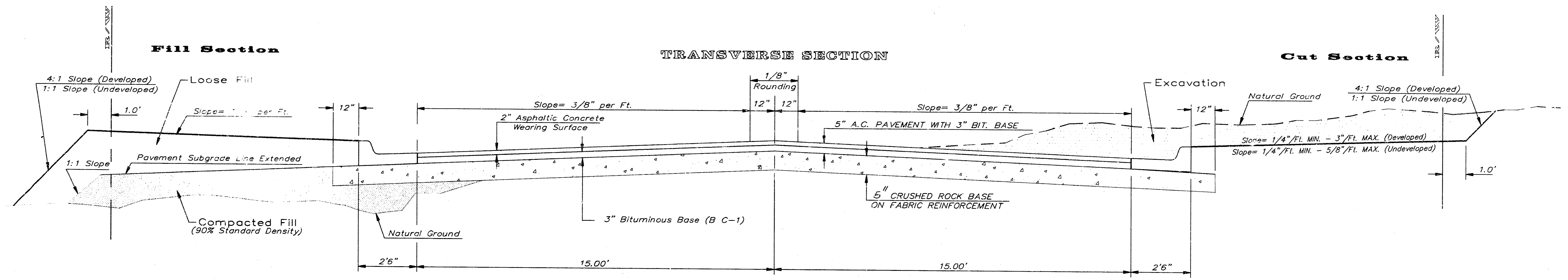
1. Utility service lines, poles, valve boxes, meters, et cetera are to be adjusted as necessary, by others prior to construction unless the plans specifically call for their adjustment by the Contractor or unless the plans specifically identify a utility to be occupied by its owner during construction. 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. 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. Locations that, in the opinion of the Engineer, will have an unsightly appearance will not be approved. All disposal sites must be approved by the Kansas Department of Health and Environment. Material either stockpiled or disposed of in a flood plain would require a Kansas State Board of Agriculture permit. Any material dumped in waters of the United States or wetlands is subject to U.S. Corps of Engineers permitting regulations. Any material buried or stockpiled beyond approved construction limits would require additional archaeological investigations unless buried in a previously approved borrow location.
3. This project includes a certain amount of "roll type" curb construction. Roll Curbs shall be depressed through all driveway openings when such drives are constructed as a part of the project.
4. No more than 3 drives 18 feet in width, or equivalent combinations thereof, are to be constructed with this project.
5. 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.



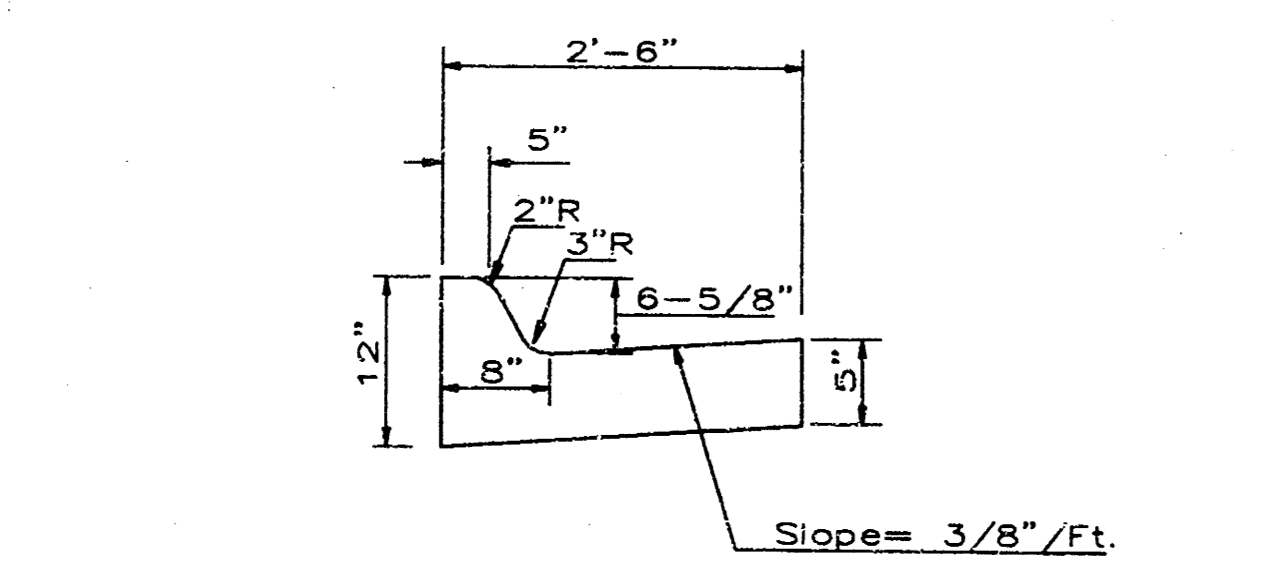
12/20/21

**BAUGHMAN COMPANY**  
 ENGINEERING & SURVEYING  
 316/212-7227 • 315 E. L.S. • WICHITA, KANSAS, 67202

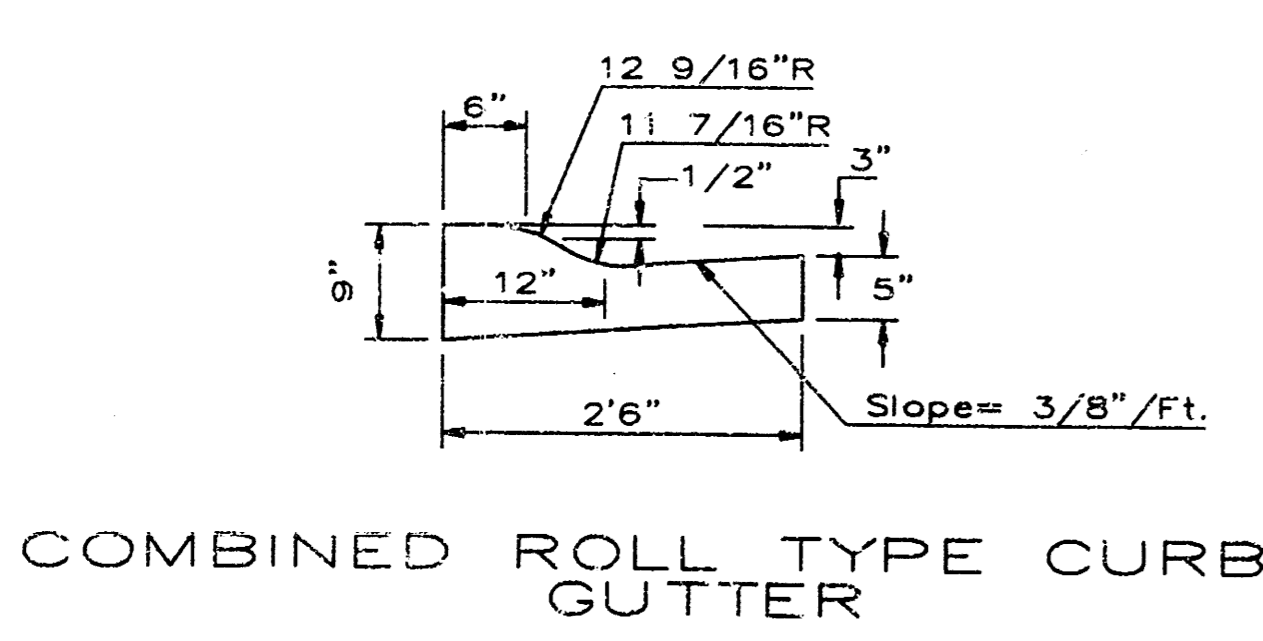
# TYPICAL 35' B-B PAVEMENT DETAILS



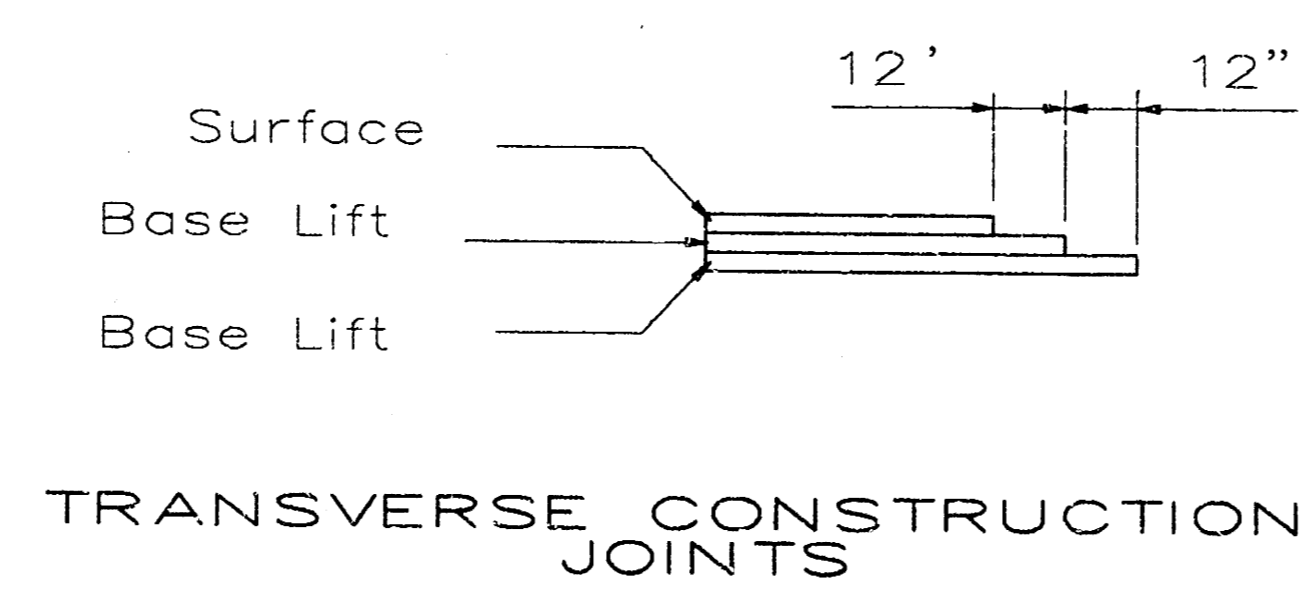
	DISTANCE FROM CENTERLINE (L.T. & RT.)											
	0'	2'	4'	6'	8.5'	10'	12'	14'	15'	17'	17.5'	18.5'
A: Top of Curbs to Top of Surface Lift	0.04	0.08	0.14	0.21	0.29	0.33	0.39	0.46	0.49	-	-	-
B: Top of Curbs to Top of Upper Base Lift	0.21	0.25	0.31	0.37	0.45	0.50	0.56	0.62	0.65	-	-	-
C: Top of Curbs to Top of C. R. Subgrade	0.46	0.50	0.56	0.63	0.71	0.75	0.81	0.88	0.91	0.97	0.98	1.01



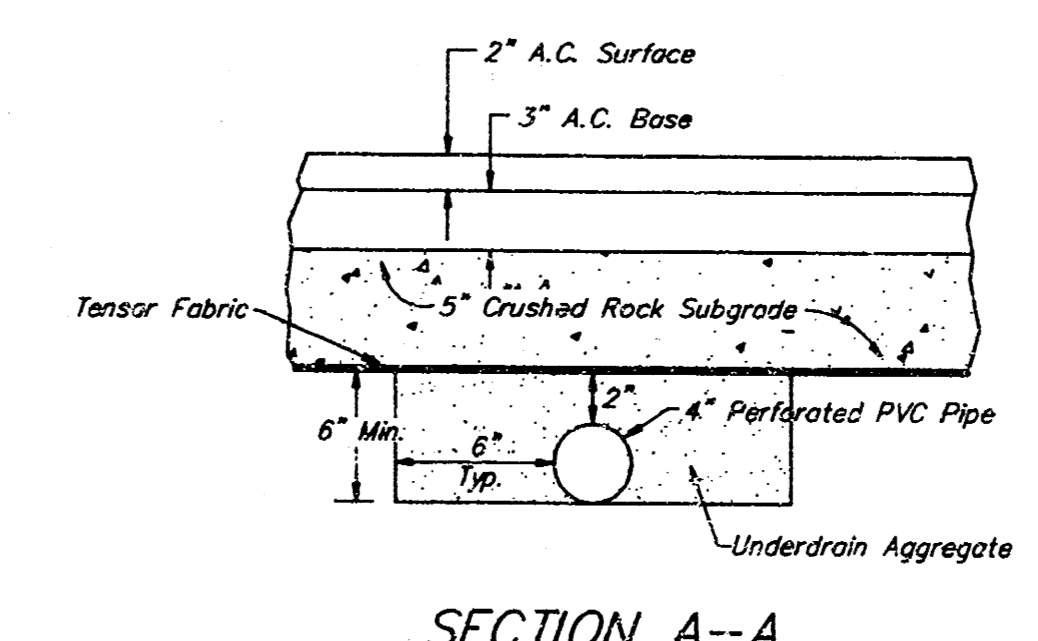
COMBINED CURB & GUTTER



COMBINED ROLL TYPE CURB & GUTTER



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 5" ASPHALTIC CONCRETE (3" BITUMINOUS BASE).



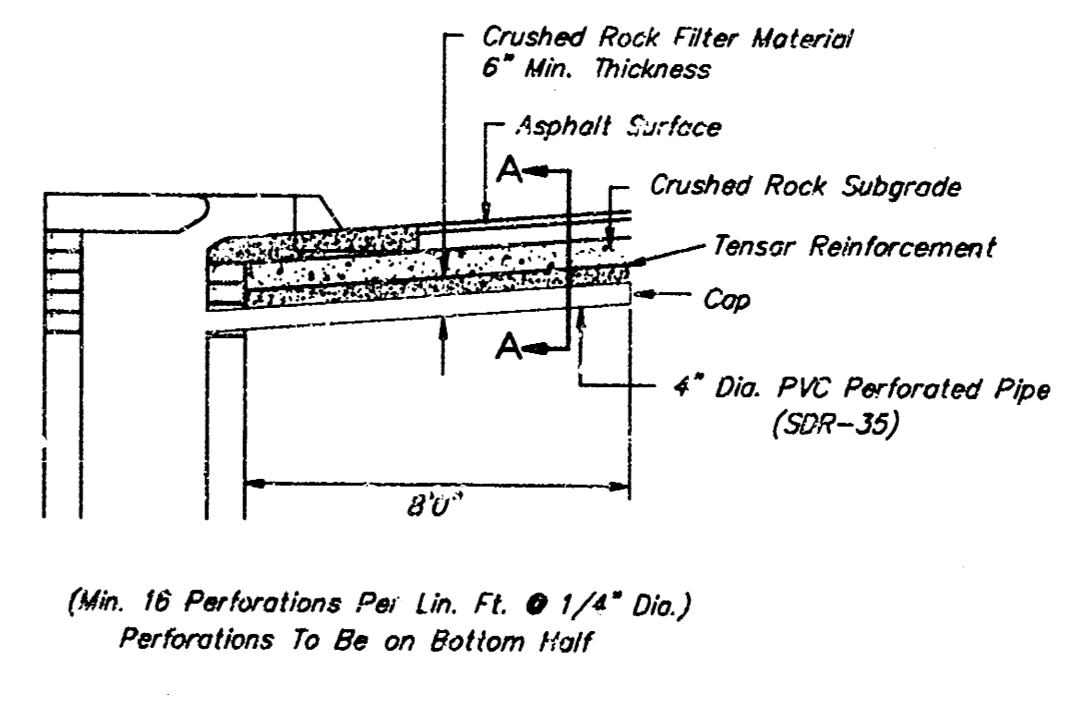
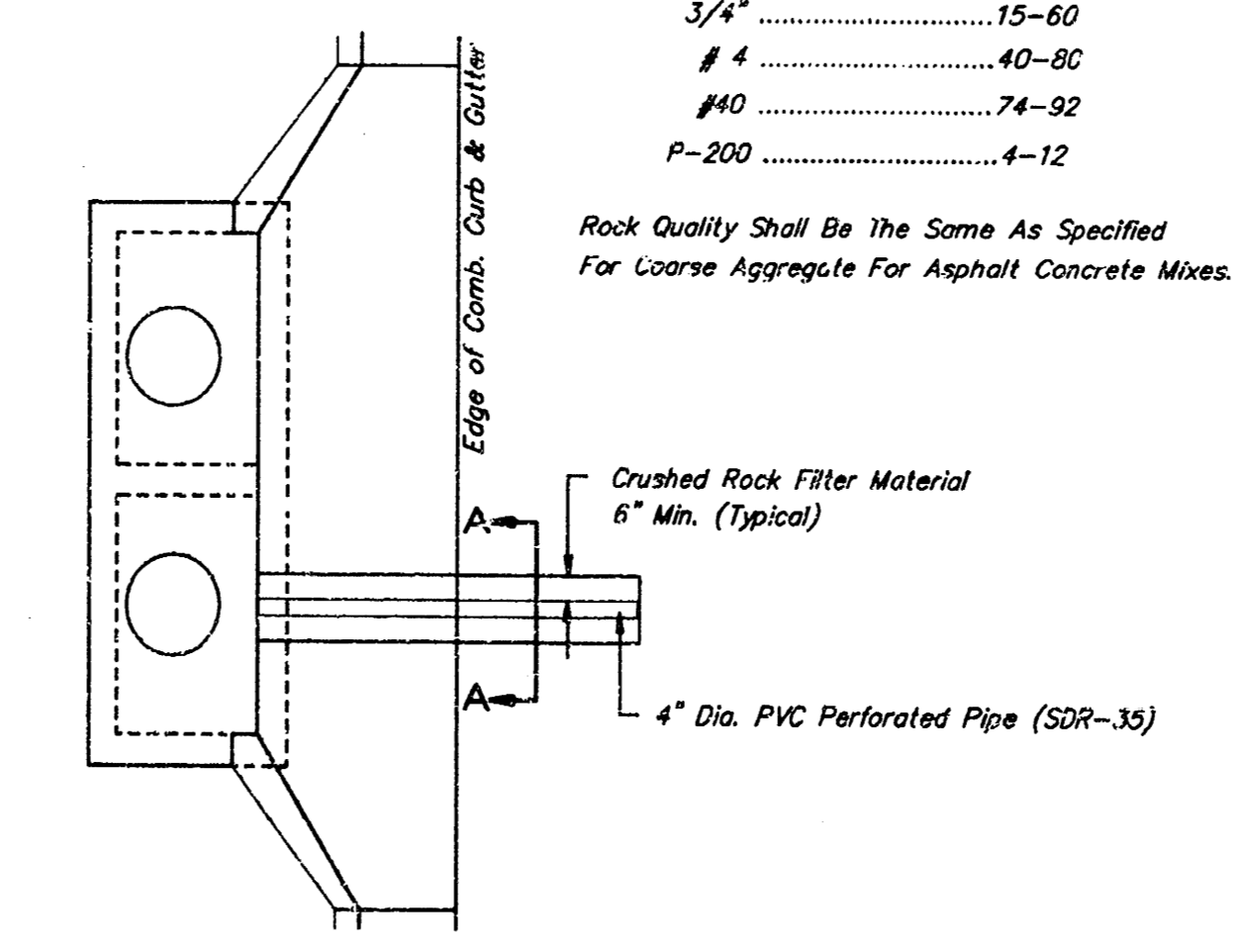
SECTION A-A

CRUSHED ROCK GRADATION REQUIREMENTS  
Percent of Aggregate Retained

1 1/2"	0
3/4"	15-60
#4	40-80
#10	74-92
#200	4-12

Rock Quality Shall Be The Same As Specified For Coarse Aggregate For Asphalt Concrete Mixes.

NOTE: Place 4" PVC Perforated Pipe at all drainage sump locations. Cost of Underdrain System to be Incidental to the Reinforced Crushed Rock Subgrade.



(Min. 16 Perforations Per Lin. Ft. @ 1/4" Dia.)  
Perforations To Be on Bottom Half

PAVEMENT UNDERDRAIN DETAIL

## General Notes

FABRIC BASE REINFORCEMENT SHALL BE B X 1100 GEGRID AS MANUFACTURED BY TENSAR CORPORATION OR APPROVED EQUAL. FABRIC BASE REINFORCEMENT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. CRUSHED ROCK SHALL BE UNIFORMLY GRADED FROM 1-1/2" MAXIMUM SIZE TO NOT MORE THAN 10% PASSING A NO. 200 SIEVE. ROCK QUALITY SHALL BE THE SAME AS SPECIFIED FOR COARSE AGGREGATE FOR CONCRETE MIXES.

ROCK BASE IS TO BE COMPACTED AND SMOOTHED WITH A STEEL FACED ROLLER PRIOR TO PLACEMENT OF ASPHALT. TACK COAT WILL NOT BE APPLIED TO ROCK BASE.

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.

BITUMINOUS BASE AND ASPHALTIC CONCRETE WEARING SURFACE SHALL BE PLACED WITH A LAYDOWN MACHINE HAVING AUTOMATIC CONTROLS FOR LINE AND GRADE.

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.

THE ASPHALTIC CONCRETE PAVEMENT BETWEEN THE COMBINED CURB AND GUTTER SHALL BE PAID AS SQUARE YARDS OF 5" ASPHALTIC CONCRETE (3" BITUMINOUS BASE).

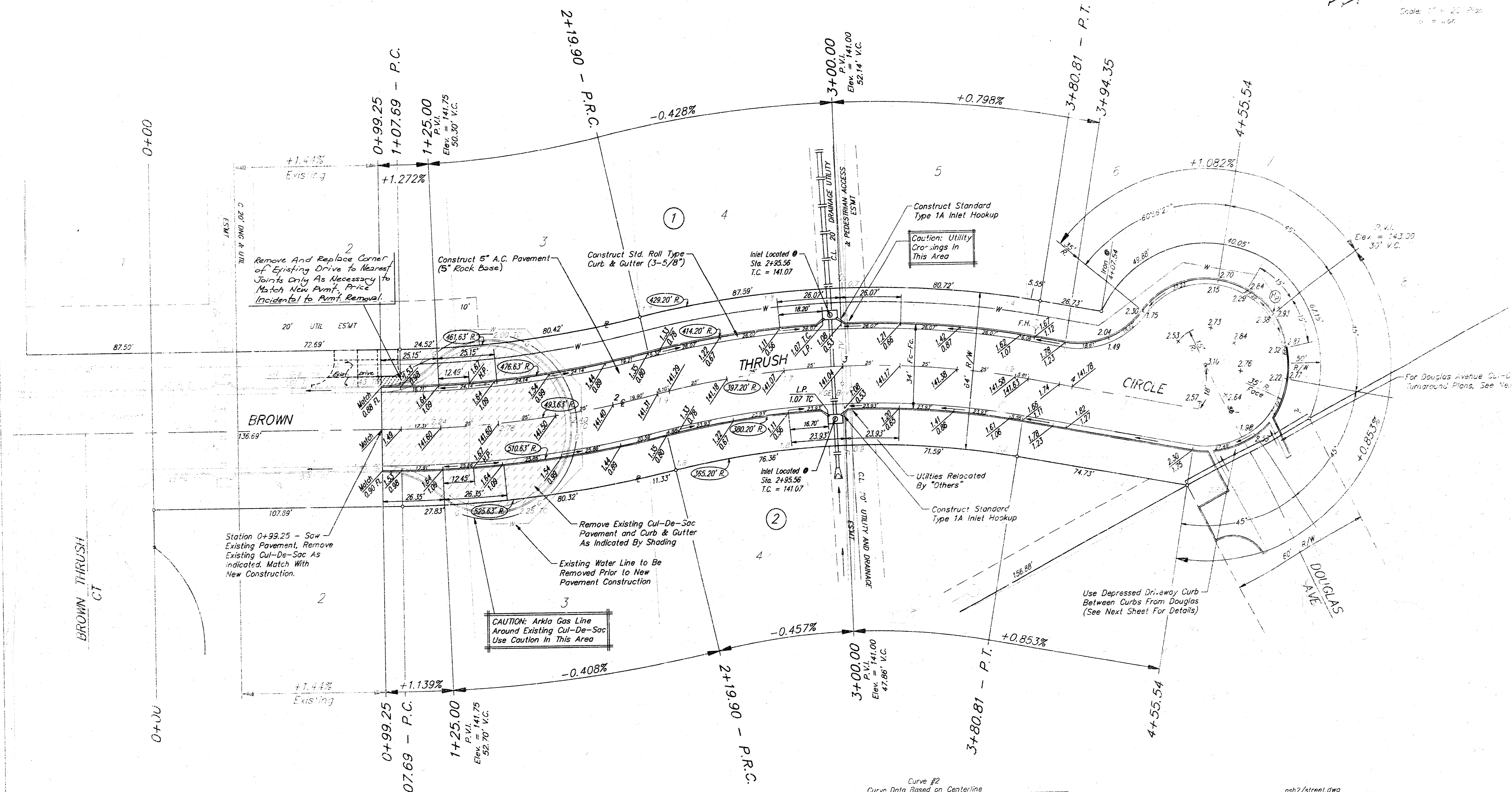
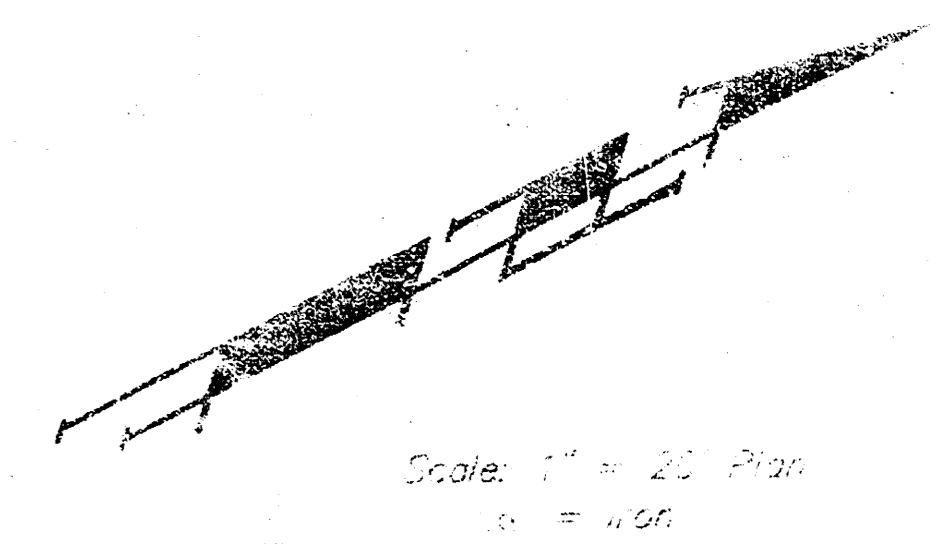
5 INCH Residential Asphaltic Concrete Pavement with Crushed Rock Base on Fabric Reinforcement  
City of Wichita, Kansas

**BAUGHMAN COMPANY P. A.**  
ENGINEERING & SURVEYING  
316/262-7271 • 315 ELLIS • WICHITA, KANSAS 67211

PROJECT NUMBER: 472 76 245  
SHEET: 2 OF 8

BENCH MARK:  
 SQUARE CUT, TOP OF SOUTH CURB  
 OF DOUGLAS CIRCLE, 20' EAST OF  
 EAST LINE OF ASHLEY PARK II  
 ELEVATION = 142.85 CITY DATUM  
 (1330.25 M.S.L.)

NOTE: ROLL TYPE CURB AND GUTTER  
 TO BE CONSTRUCTED ON THIS PROJECT



BROWN  
 THRUSH  
 CT

For Douglas Avenue Curb  
 Turnaround Plans, See Next

Excavation = 904.1 C.Y. Comp. Fill = 1.7 C.Y.

Curve #1  
 Curve Data Based on Centerline  
 Rad = 493.63' Delta = 1301' 28" Tangent = 56.35'  
 Arc = 112.21' L.C. = 111.97' Def/ft. = 3.48201 Min.

Station	Arc	FACE CHORD LENGTHS		Defl	T. Defl
		B Lt.	B Rt.		
1407.69				0'00"00"	0'00"00"
1425.00	17.31'	16.43'	18.19'	1'00"16"	1'00"16"
1450.00	25.00'	23.73'	26.26'	1'27"03"	2'27"19"
1475.00	25.00'	23.73'	26.26'	1'27"03"	3'54"22"
1400.00	25.00'	23.73'	26.26'	1'27"03"	5'21"25"
2+19.90	19.90'	18.89'	20.91'	1'09"17"	6'30"43"

Curve #2  
 Curve Data Based on Centerline  
 Rad = 397.2' Delta = 23' 12' 35" Tangent = 81.57'  
 Arc = 180.91' L.C. = 159.81' Def/ft. = 4.32742 Min.

Station	Arc	FACE CHORD LENGTHS		Defl	T. Defl
		B Lt.	B Rt.		
2+19.90				0'00"00"	0'00"00"
2+25.00	5.10'	5.42'	4.79'	0'22"04"	0'22"04"
2+50.00	25.00'	26.57'	23.42'	1'48"11"	2'10"15"
2+75.00	25.00'	26.57'	23.42'	1'48"11"	3'58"26"
2+92.45	17.45'	18.55'	16.35'	1'15"51"	5'13"52"
2+95.56	3.11'	3.31'	2.91'	0'13"27"	5'27"25"
3+00.00	4.44'	4.72'	4.16'	0'19"13"	5'46"37"
3+25.00	25.00'	26.57'	23.42'	1'48"11"	7'34"49"
3+50.00	25.00'	26.57'	23.42'	1'48"11"	9'22"59"
3+75.00	25.00'	26.57'	23.42'	1'48"11"	11'11"11"
3+80.81	6.81'	6.18'	5.44'	0'25"08"	11'36"19"

ash2/street.dwg

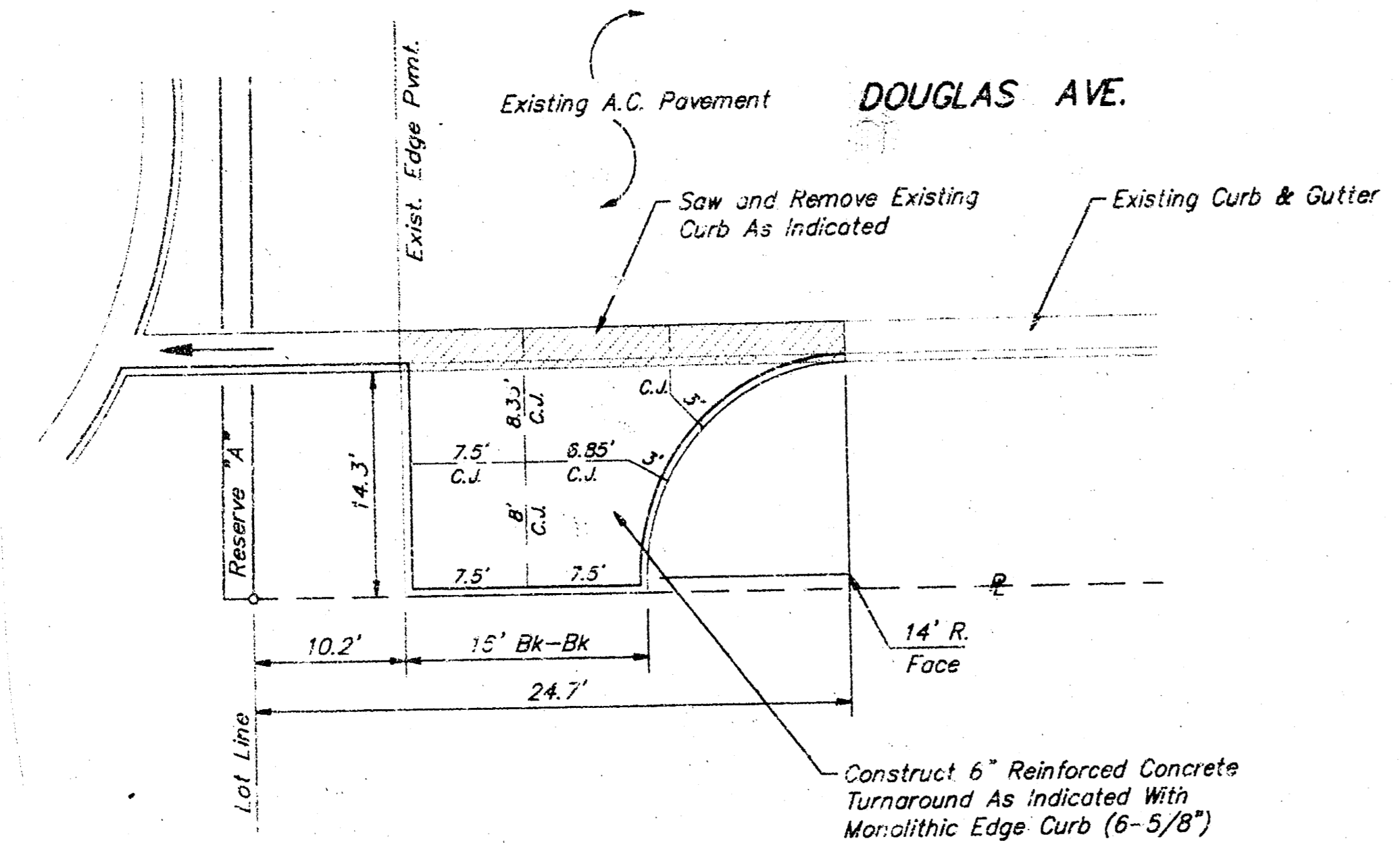
**BROWN THRUSH CIRCLE**

**BAUGHMAN COMPANY P. A.**  
 ENGINEERING & SURVEYING  
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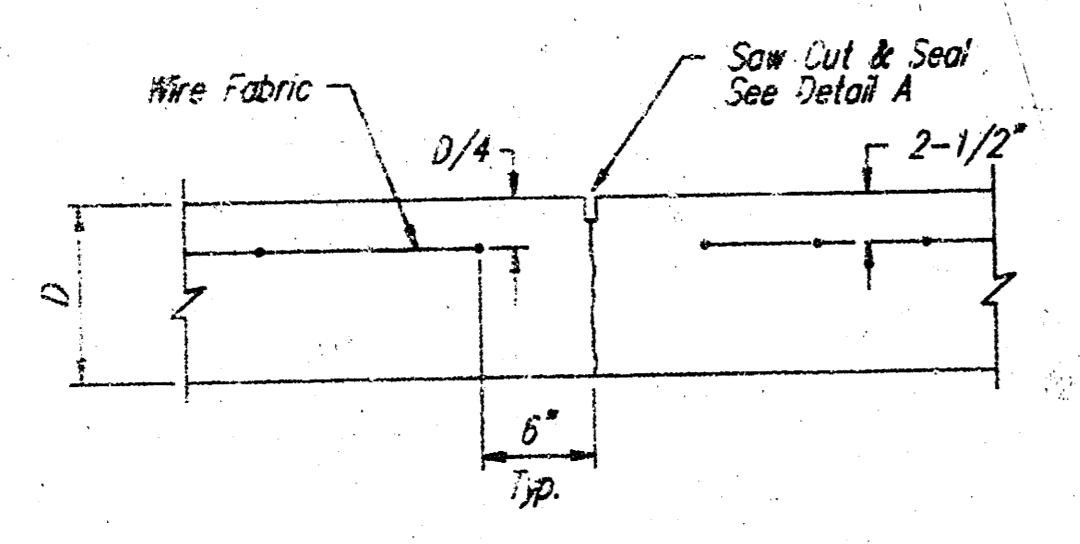
PROJECT NUMBER  
**472-76-245-82151-000-001**

DESIGN: C. Bohm    DRAWN: C. Bohm    APPROVED:    DATE: Sept. 1991    SCALE: 1"=20'    SHEET: 3 OF 8

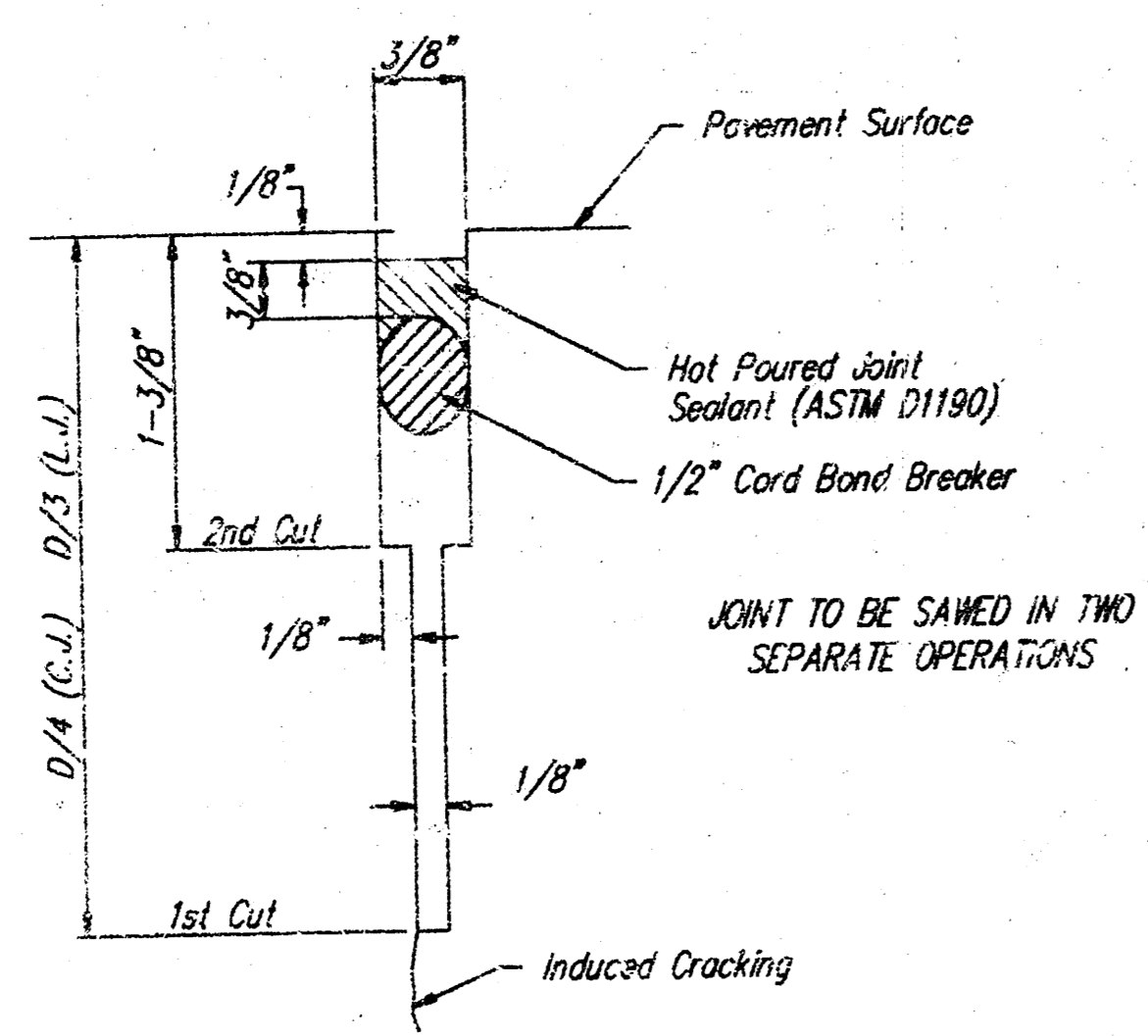
BENCH MARK:  
 SQUARE CUT, TOP OF SOUTH CURB  
 OF DOUGLAS AVENUE, 20' EAST OF  
 EAST LINE OF ASHLEY PARK II  
 ELEVATION = 142.85 CITY DATUM  
 (1330.25 M.S.L.)



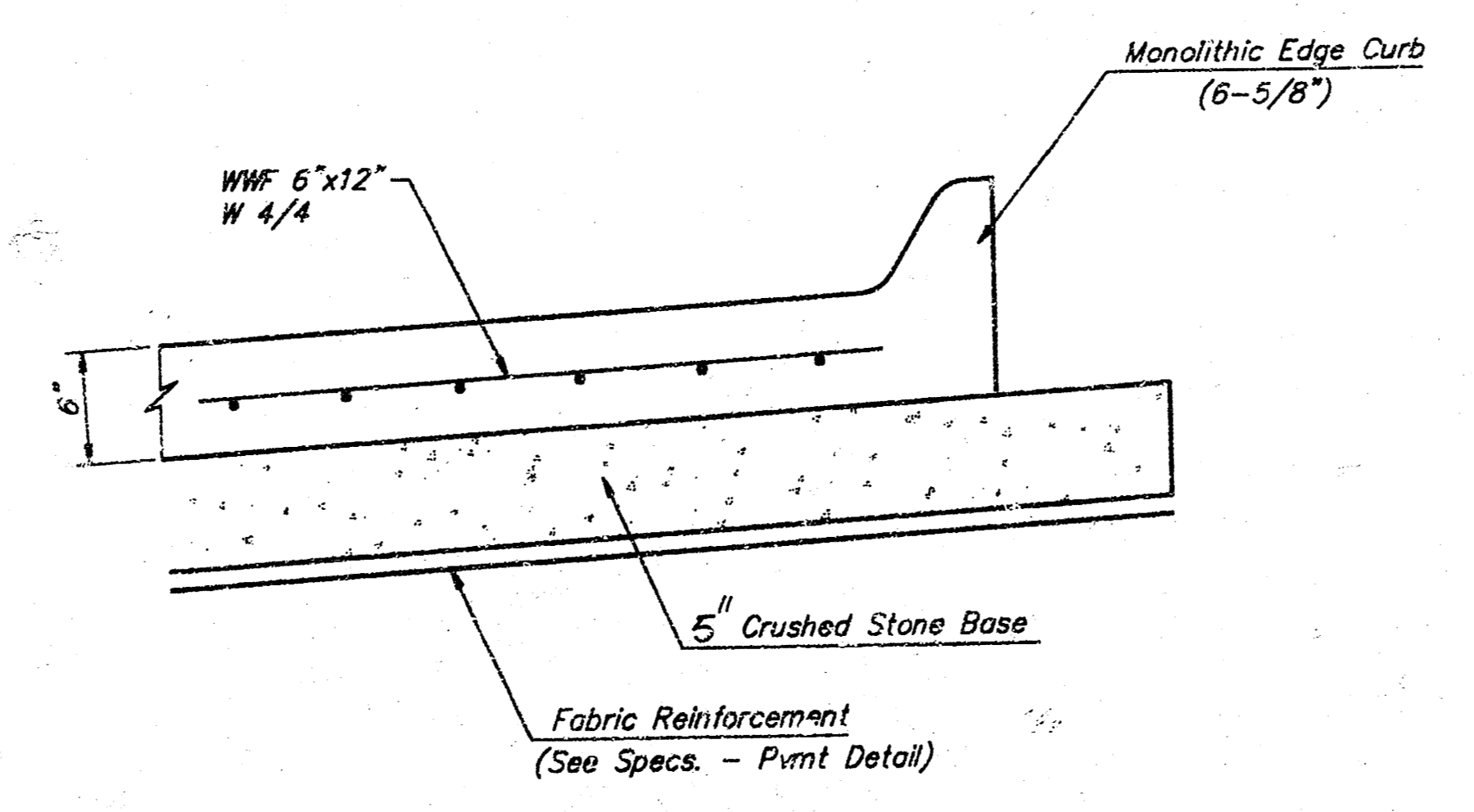
TURNAROUND JOINT DETAIL  
 Scale: 1" = 10'



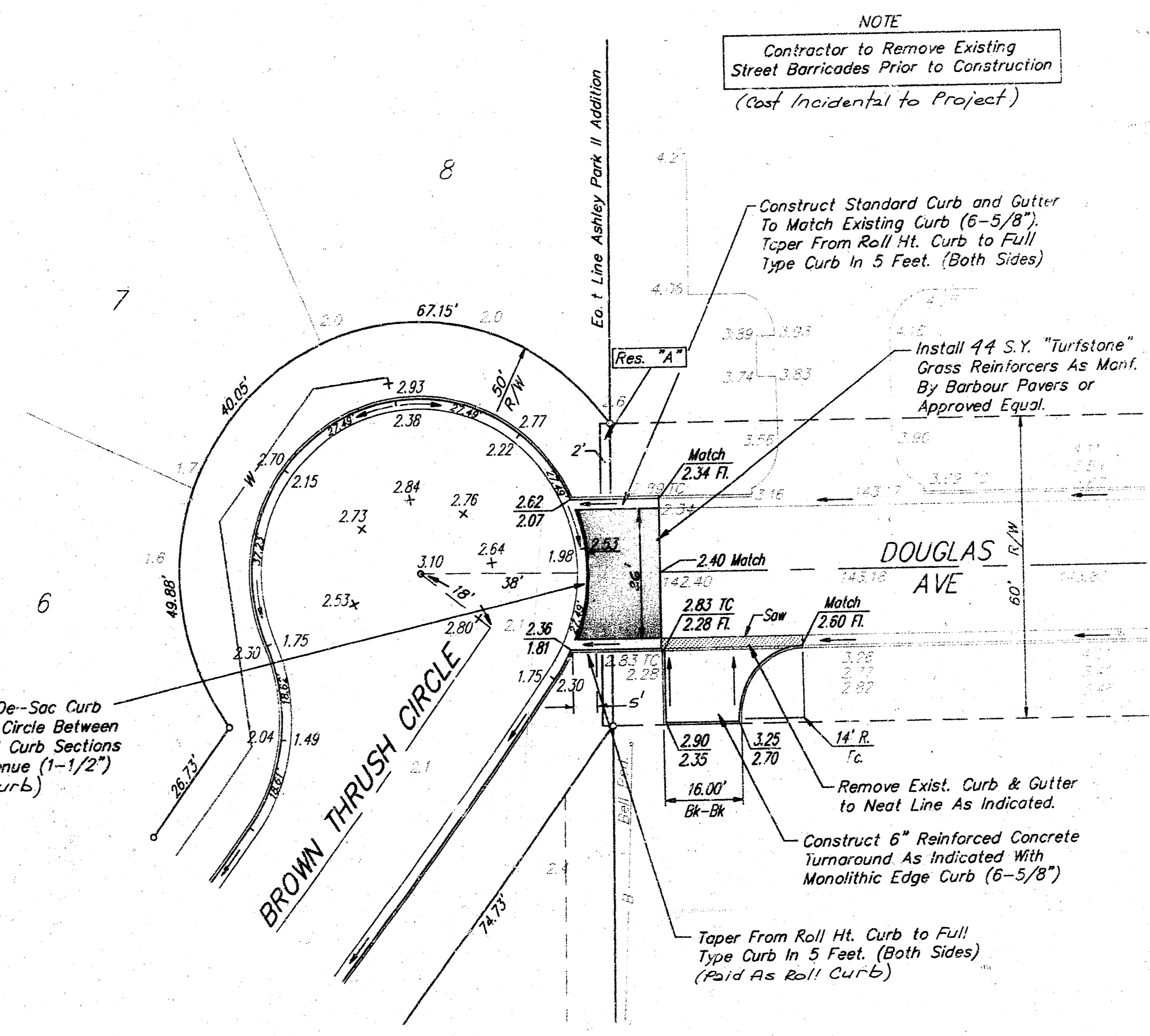
CONTRACTION JOINT DETAIL (C.J.)



SAW JOINT DETAIL



Depress the Cul-De-Sac Curb  
 On Brown Thru Circle Between  
 The Extended Roll Curb Sections  
 From Douglas Avenue (1-1/2")  
 (Paid As Roll Curb)



NOTE  
 Contractor to Remove Existing  
 Street Barricades Prior to Construction  
 (Cost Incidental to Project)

Construct Standard Curb and Gutter  
 To Match Existing Curb (6-5/8").  
 Taper From Roll Ht. Curb to Full  
 Type Curb In 5 Feet. (Both Sides)

Install 44 S.Y. "Turfstone"  
 Grass Reinforcers As Manf.  
 By Barbour Pavers or  
 Approved Equal.

Match 2.34 Fl.

Match 2.40 Match

Match 2.83 TC  
 2.28 Fl.

Match 2.60 Fl.

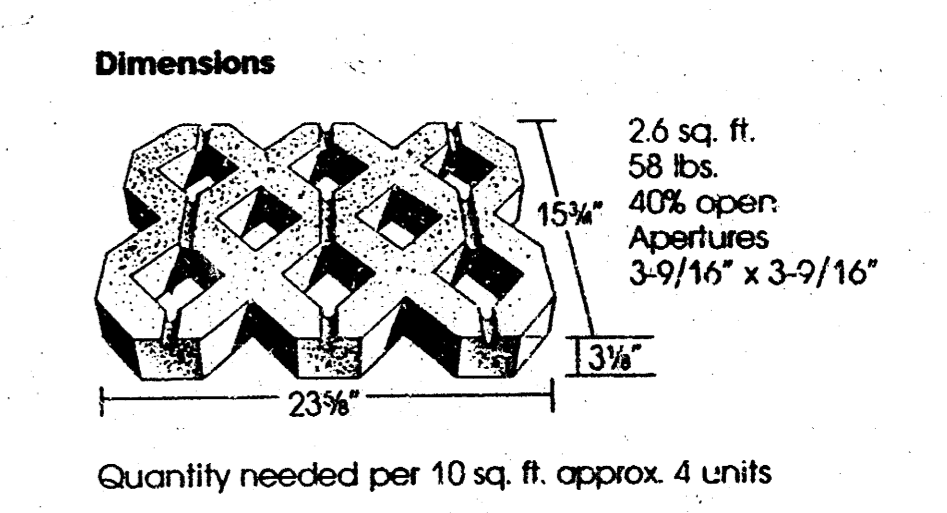
Remove Exist. Curb & Gutter  
 to Neat Line As Indicated.

Construct 6" Reinforced Concrete  
 Turnaround As Indicated With  
 Monolithic Edge Curb (6-5/8")

Taper From Roll Ht. Curb to Full  
 Type Curb In 5 Feet. (Both Sides)  
 (Paid As Roll Curb)

Scale: 1" = 20'  
 o = Iron

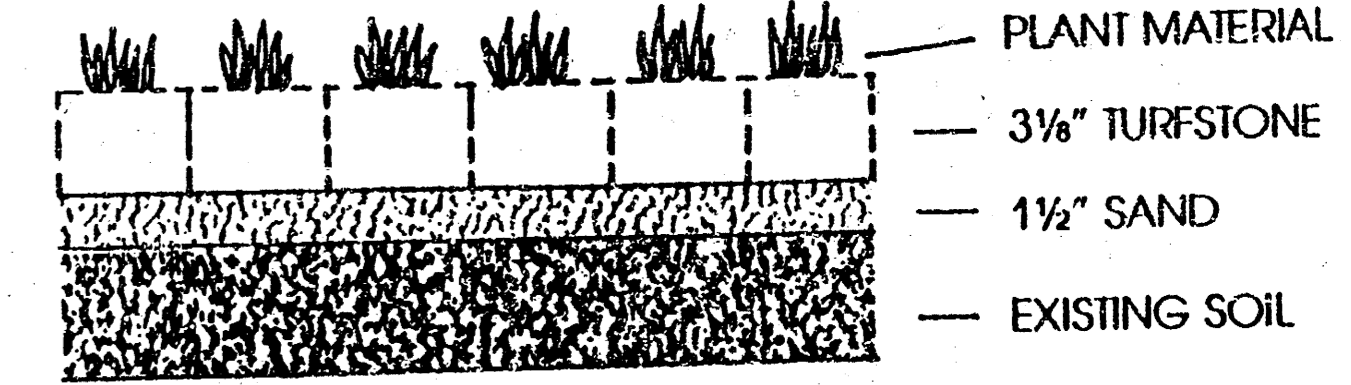
GRASS REINFORCER DETAILS



Installation for Erosion Control  
 Erosion control applications require the slope to be  
 graded uniformly (ideally to a 2:1 or gentler slope)  
 before bedding Turfstone in a thin layer of sand. To  
 prevent migration of the fine granular material it  
 may be necessary to place a man-made filter cloth  
 on the graded slope before applying the sand. The  
 filter fabric should permit revegetation, to support  
 plant growth the openings must be filled with 1/4 in.  
 (15mm) of the surface with suitable topsoil or mixture  
 of soil and fertilizer and then seeded, sprigged or  
 plugged.

Residential and Commercial Pavement Installation  
 For residential applications remove soil to a depth of  
 approx. 4 1/2 in. (105mm). Wet and compact area  
 with a tamper or vibrator. Spread clean sand to a  
 depth of approx. 1 1/2 in. (35mm) and screed level.  
 Set Turfstone units and seat with tamper uniformly  
 level. Follow Erosion control revegetation procedures.

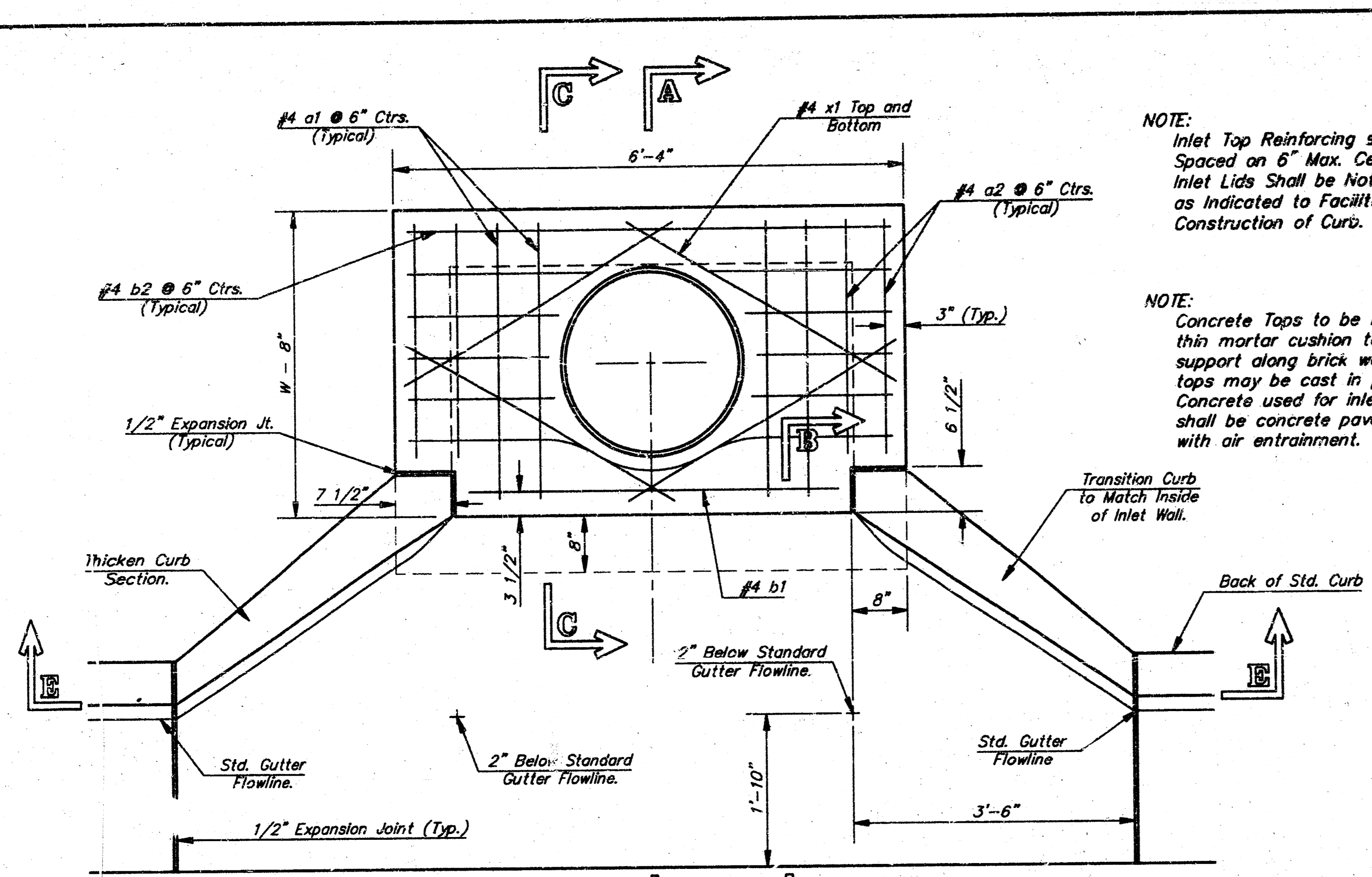
Cross Section Typical Residential Installation



- Notes
- Seeding of the Grass Reinforcers  
 Will Be Done By Others.
  - The Bid Item for "Turfstone" Grass  
 Reinforcers shall include the  
 1-1/2" Sand Base and the 3/8"  
 Turfstone Reinforcing Blocks.

DOUGLAS AVENUE TURNAROND				
<b>BAUGHMAN COMPANY P. A.</b> ENGINEERING & SURVEYING 316/282-7271 • 316 ELLIS • WICHITA, KANSAS 67211				
PROJECT NUMBER				
472-76-245-82151-000-000-001				
DESIGN	DRAWN	APPROVED	DATE	SCALE
C. Bohm	C. Bohm		Sept, 1991	1"=20'

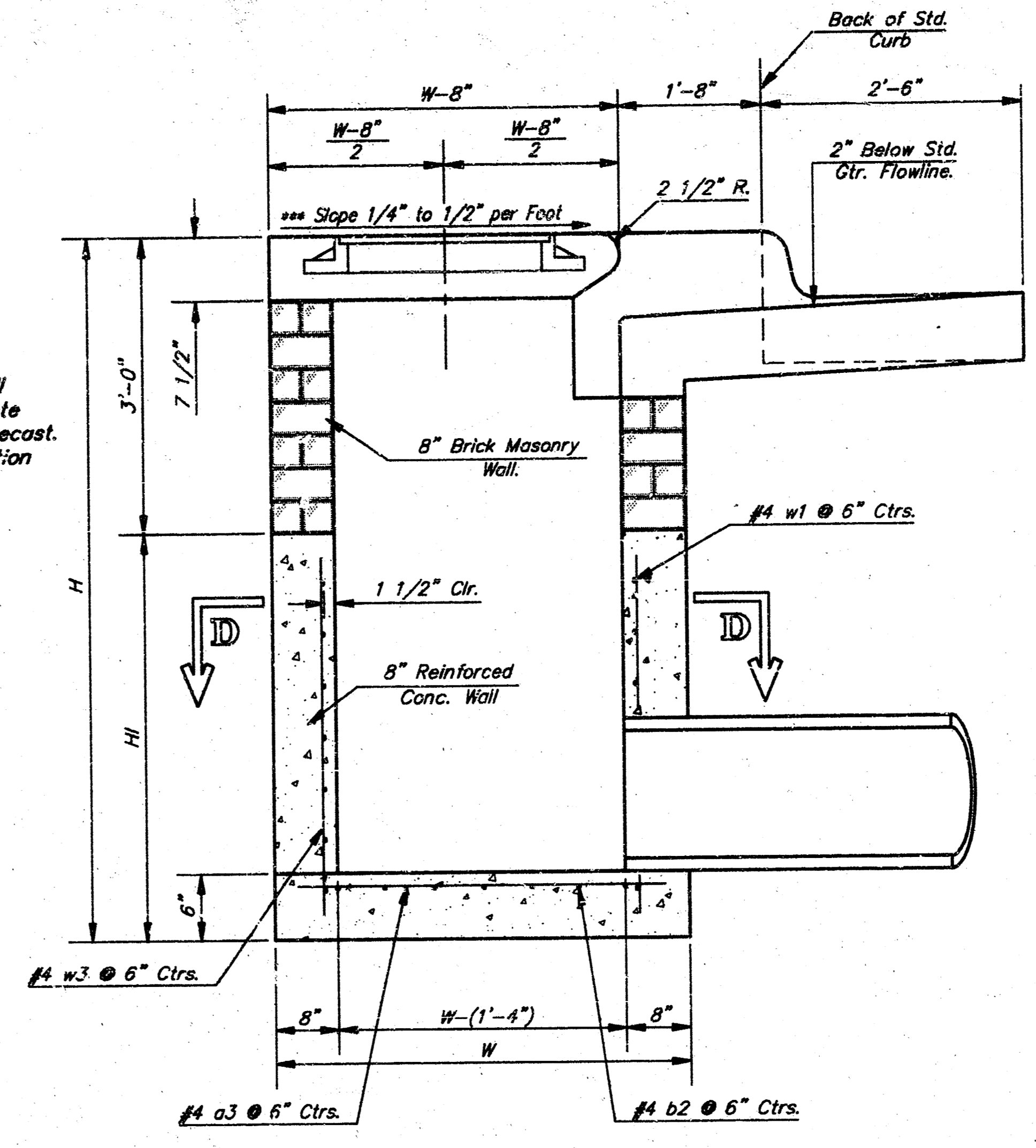
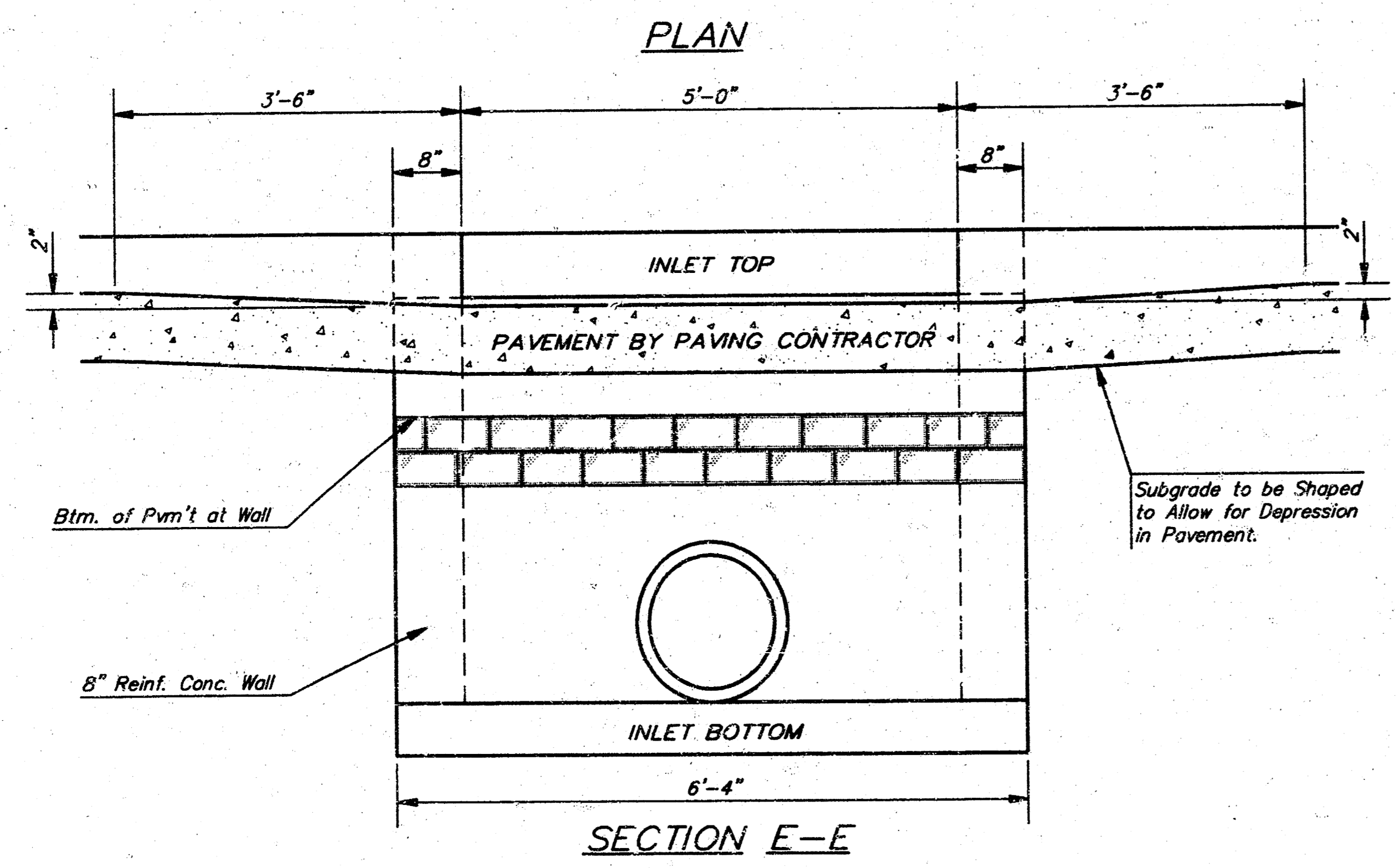




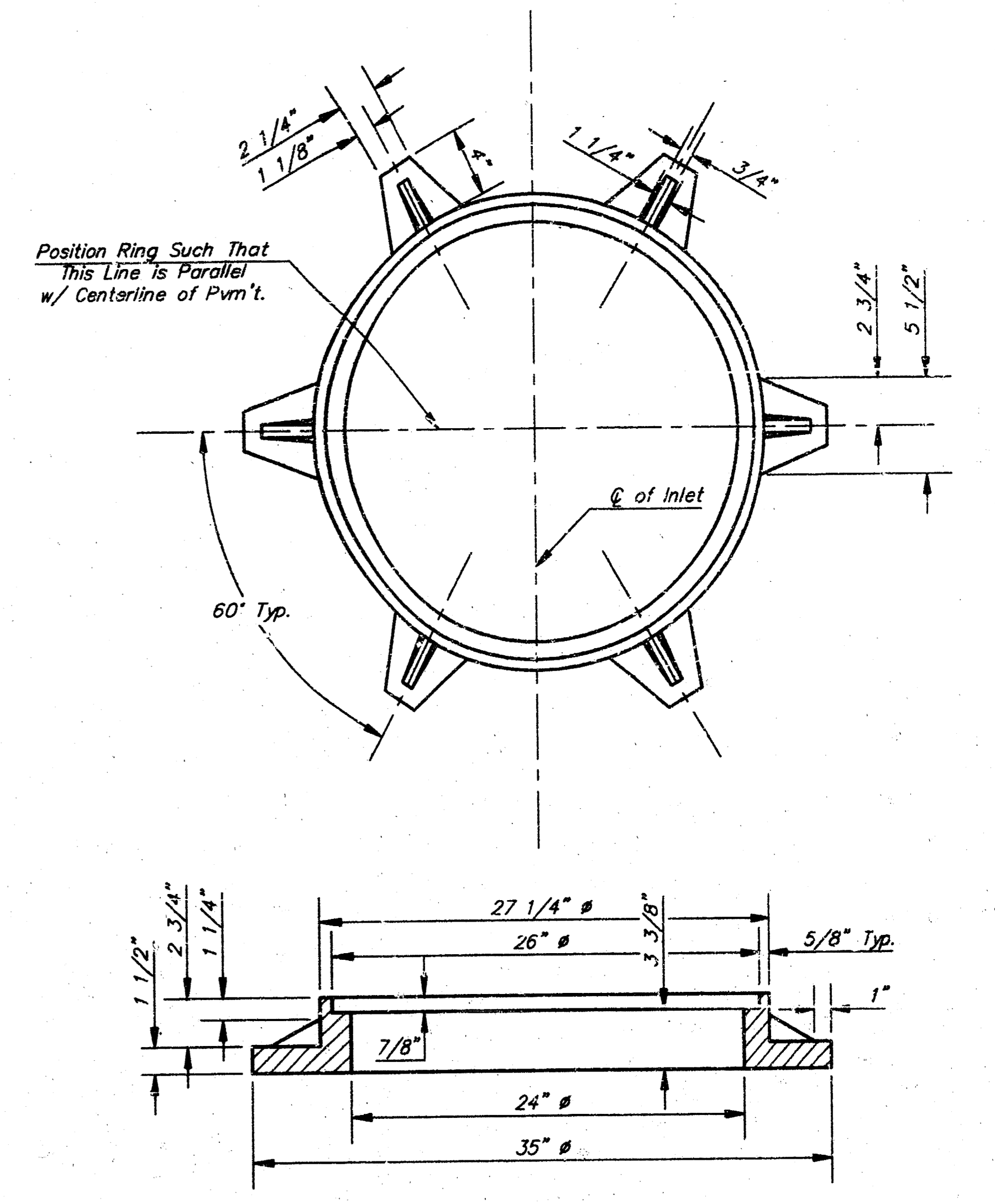
NOTE: Inlet Top Reinforcing shall be Spaced on 6" Max. Centers. Inlet Lids Shall be Notched Out as Indicated to Facilitate Construction of Curb.

NOTE: 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 with air entrainment.

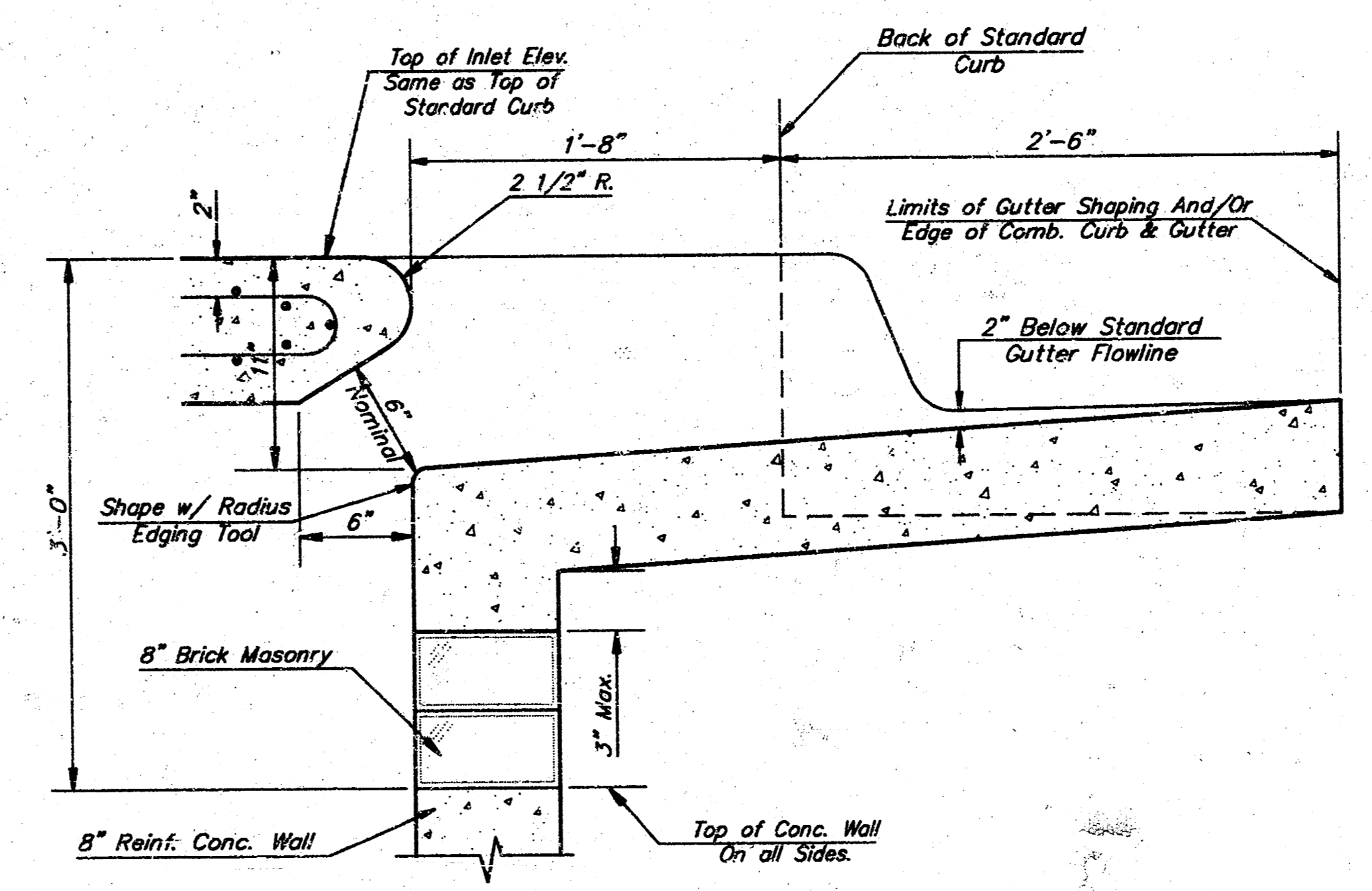
NOTE: Expansion Joint Only in Curb Area With Concrete Pavement.



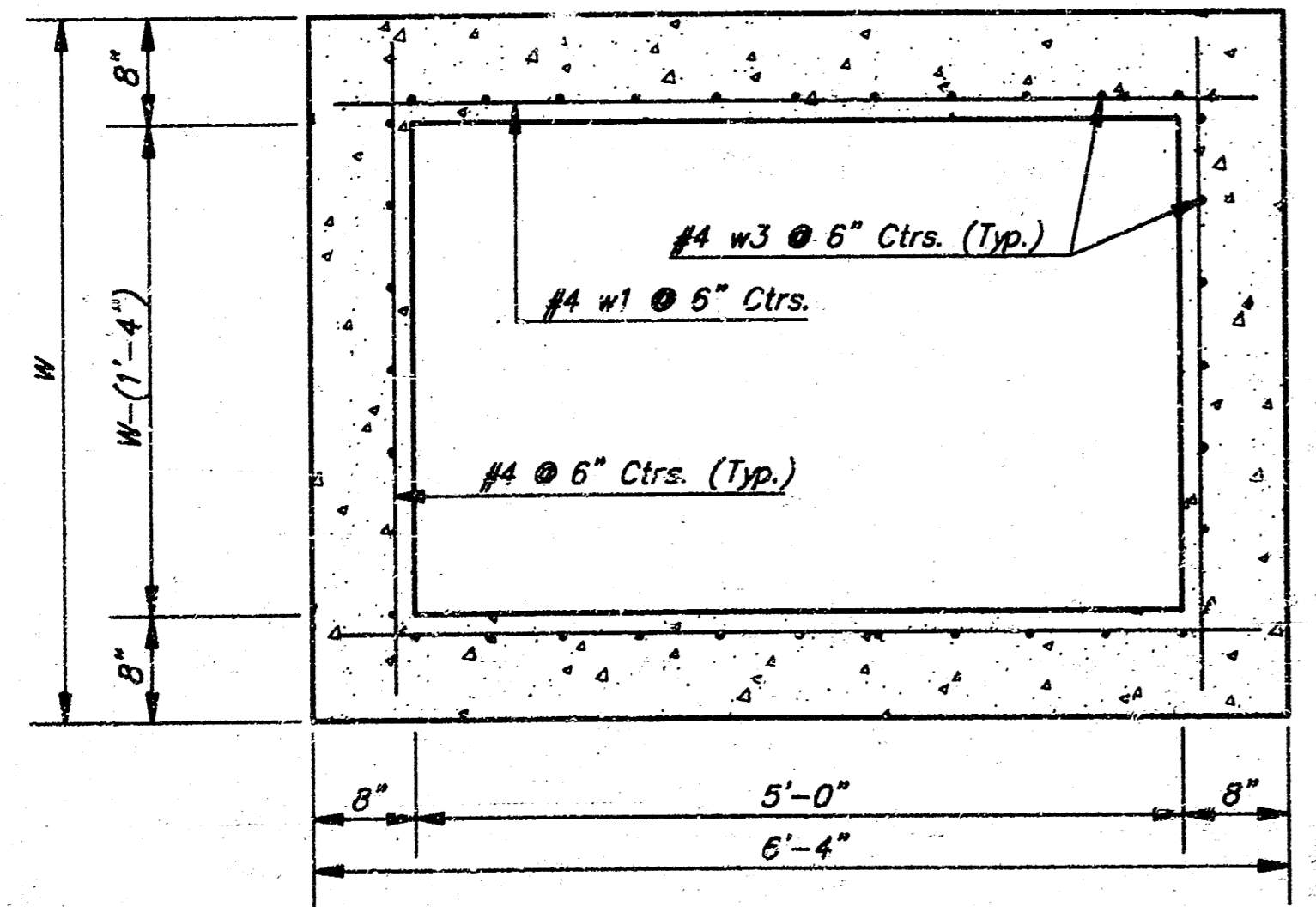
NOTE: Slope of inlet tops to Match Sidewalk or Parking Slopes within Limits Indicated.



MANHOLE RING AND COVER  
Weight = 180 Lbs.  
\*See City of Wichita Standard Manhole Ring and Cover Detail Sheet for Cover Details to Be Used With Inlet Frame.



SECTION B-B



SECTION D-D

NOTE: Contractor shall have the option of constructing 8\"/>

Additional curb and gutter construction necessary to connect set-back inlet to pavement will be paid for 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

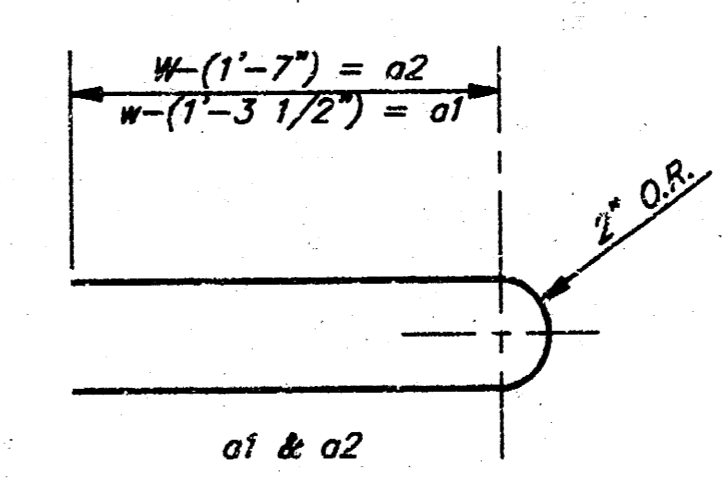
PRECAST SLAB AND FLOOR REINFORCING

MARK	SIZE	W = 4'-4"		W = 5'-4"		W = 6'-4"		W = 7'-4"		W = 8'-4"	
		NO.	LENGTH	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH
a1	#4	6	6'-7"	6	8'-7"	6	10'-7"	6	12'-7"	6	14'-7"
a2	#4	4	6'-0"	4	8'-0"	4	10'-0"	4	13'-0"	4	14'-0"
a3	#4	13	4'-1"	13	5'-1"	13	6'-1"	13	7'-1"	13	8'-1"
b1	#4	7	4'-9"	7	4'-9"	7	4'-9"	7	4'-9"	7	4'-9"
b2	#4	23	6'-1"	29	6'-1"	35	6'-1"	41	6'-1"	47	6'-1"
x1	#4	8	3'-10"	8	4'-2"	8	4'-6"	8	4'-10"	8	5'-2"

WALL REINFORCING

MARK	SIZE	W = 4'-4"		W = 5'-4"		W = 6'-4"		W = 7'-4"		W = 8'-4"	
		NO.	LENGTH	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH
w1	#4	1	6'-1"	1	6'-1"	1	6'-1"	1	6'-1"	1	6'-1"
w2	#4	1	4'-1"	1	5'-1"	1	6'-1"	1	7'-1"	1	8'-1"
w3	#4	32	2	35	2	40	2	44	2	48	2

\* Field Bend or Cut Reinforcing as Required for Clearance.  
① 4 (H - 12") (H - 21") Rounded down to nearest 0.5"  
② H - 3"



BENDING DIAGRAM

STANDARD CURB INLET PRECAST TOPS

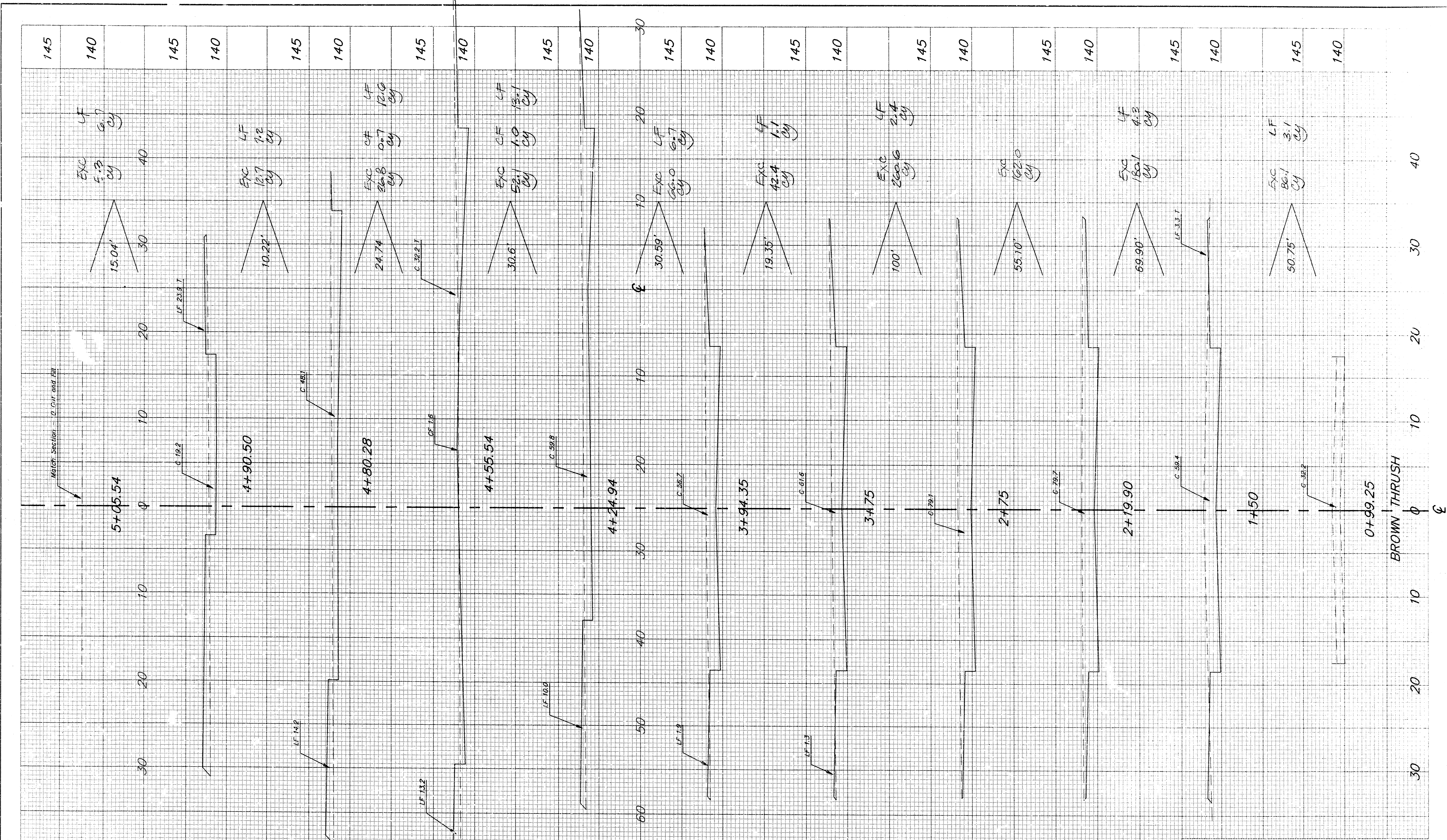
W	PRE-CAST TOP SIZE	PIPE SIZE	CU. YD. CONC.
4'-4"	3'-8" x 6'-4" x 7 1/2"	21" & SMALLER	0.38±
5'-4"	4'-8" x 6'-4" x 7 1/2"	24" & 30"	0.51±
6'-4"	5'-8" x 6'-4" x 7 1/2"	36" & 42"	0.64±
7'-4"	6'-8" x 6'-4" x 7 1/2"	48" & 54"	0.77±
8'-4"	7'-8" x 6'-4" x 7 1/2"	60" & 66"	0.90±

Revised - Feb. 16, 1989

CITY OF WICHITA STANDARD TYPE 1A  
CURB INLET DETAILS  
INLET OPENING = 6" x 5'-0"


PROJECT NUMBER: \_\_\_\_\_ SHEET 6 OF 8

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



SHEET TOTALS (CUBIC YARDS)  
 EXCAVATION = 104.1  
 LOOSE FILL = 57.2  
 COMPACTED FILL = 1.7  
 MANIPULATED FILL = 0

Earthwork Sections

	<b>BAUGHMAN COMPANY P. A.</b> ENGINEERING & SURVEYING <small>316/262-7271 • 315 ELLIS • WICHITA, KANSAS 67211</small>	REV. 7 SHEET 8
	PROJECT NUMBER 472-76-245-82151-000-000-001	

