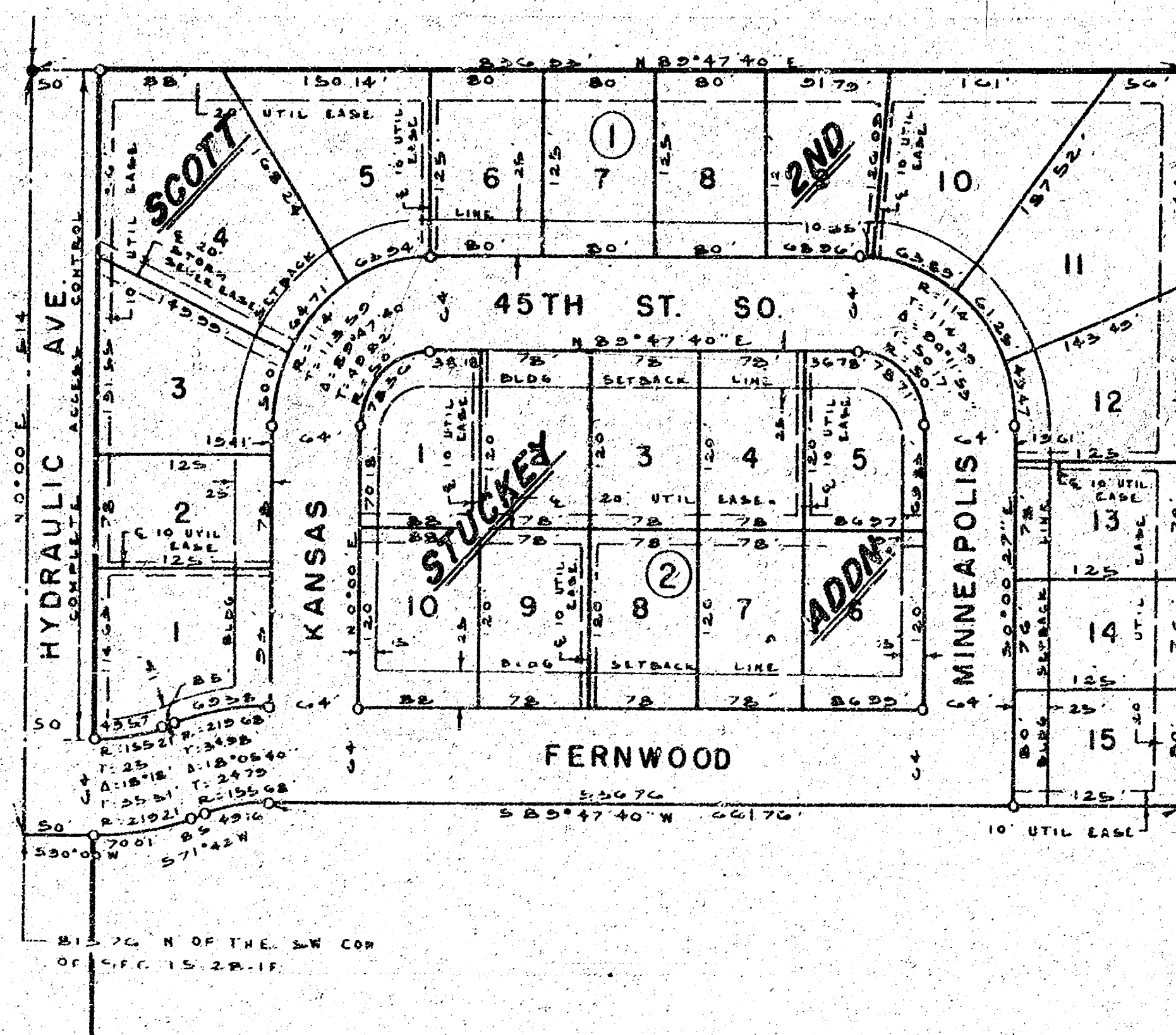


FERNWOOD
E.L. HYDRAULIC TO E.L. MINNEAPOLIS
KANSAS, 45TH ST. SO., & MINNEAPOLIS
N.L. FERNWOOD TO N.L. FERNWOOD
472-76-245-80914-000-000-001
CITY OF WICHITA, KS.
R.W. BRUGGEMAN ————— DIRECTOR OF ENGINEERING

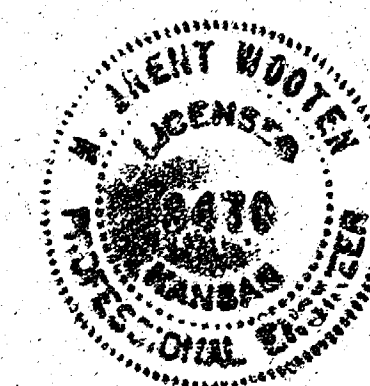


Note-

Contractor to regrade ditch each direction from the drainage pipe on the east side of Hydraulic. Cost of the regrading of the ditch and the end sections are to be considered as incidental to C.F. Pipe.
 Contractor to contact Gas Service Co. for the location of new service lines for this addition.
 Contractor to note the caution warning on sheet-5.
 Transition sections of cb. & gutter are to be bid & paid as Roll combined CB and Curb.

THE ENGINEER SHALL BE RESPONSIBLE FOR THE ACCURACY OF THE DATA AND INFORMATION FURNISHED TO THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ACCURACY OF THE DATA AND INFORMATION FURNISHED TO THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ACCURACY OF THE DATA AND INFORMATION FURNISHED TO THE CONTRACTOR.

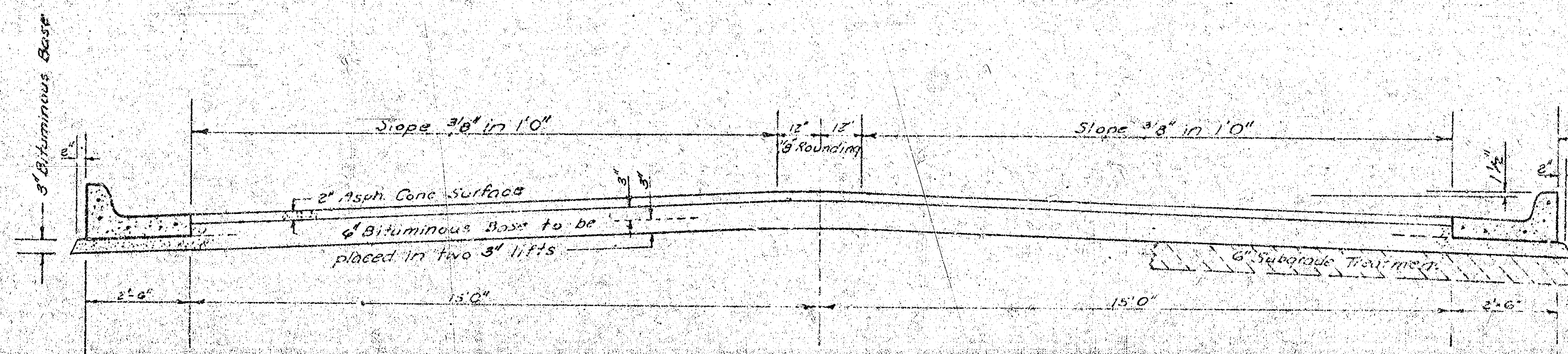
**NOTE: FIELD ENGINEER TO SPOT CHECK
 EARTH WORK ELEVATIONS PRIOR TO CONST.
 RE- CROSS SECTION WHERE NECESSARY.**



Date _____

BAUGHMAN COMPANY, P.A.
 SURVEYING & ENGINEERING
 316/262-7271 • 330 LAURA • WICHITA, KANSAS 67211

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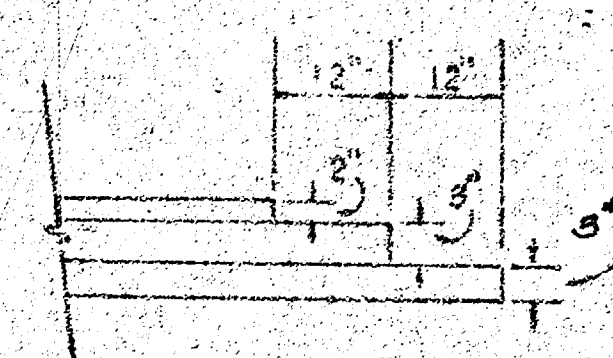
TYPICAL SECTION

35' ASPHALTIC CONCRETE PAVEMENT WITH BITUMINOUS BASE

A TACK COAT OF EMULSIFIED ASPHALT (SS-1H) SHALL BE APPLIED AT AN APPROXIMATE RATE 0.05 GALLONS PER SQ YD BETWEEN LIFTS OF ASPHALTIC MATERIALS WHEN ORDERED BY THE ENGINEER. TACK COAT WILL NOT BE PAID FOR DIRECTLY AND SHALL BE CONSIDERED AS SUBSIDIARY TO PRICE BID FOR ASPHALTIC PAVEMENT.

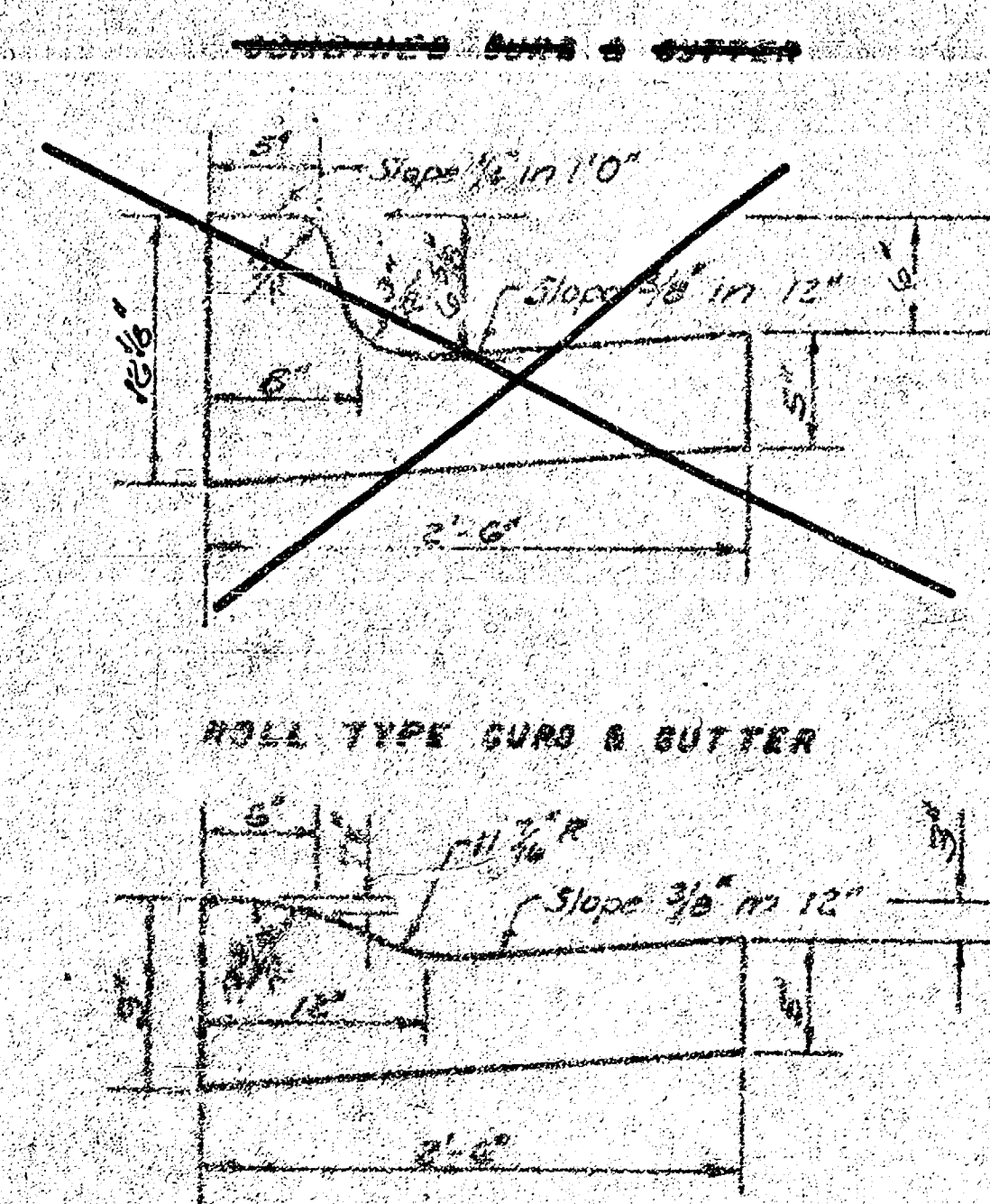
BITUMINOUS BASE AND ASPHALTIC CONCRETE WEARING SURFACE SHALL BE PLACED WITH A LAYDOWN MACHINE HAVING AUTOMATIC CONTROLS FOR CROWN AND GRADE. CONSTRUCTION JOINTS IN EACH LIFT SHALL BE STAGGERED A MINIMUM DISTANCE OF 1' WITH JOINTS IN PRECEDING LIFTS AND PLACED SUCH THAT A JOINT WILL BE CONSTRUCTED ON THE CENTERLINE IN THE TOP LIFT.

DETAIL OF TRANSVERSE CONSTRUCTION JOINTS



TRANSVERSE CONSTRUCTION JOINTS SHALL BE CONSTRUCTED IN FLEXIBLE BASE PAVEMENTS AT LOCATIONS WHERE PAVEMENT TEMPORARILY ENDS TO FACILITATE FUTURE PAVEMENT CONSTRUCTION AS SHOWN BY DETAIL. THE COST OF CONSTRUCTING THE TRANSVERSE CONSTRUCTION JOINTS SHALL NOT BE MEASURED OR PAID FOR DIRECTLY BUT SHALL BE INCLUDED IN THE BID PRICE FOR SQUARE YARDS OF ASPHALTIC CONCRETE PAVEMENT.

The A.C. Pavement between the curb & gutter shall be paid as 39 yds. 6" A.C. Pavement (6" Bituminous Base).
The Bituminous Base under the curb & gutter shall be paid as 39 yds. 3" Bituminous Base.



CITY OF WICHITA KANSAS

DEPARTMENT OF ENGINEERING

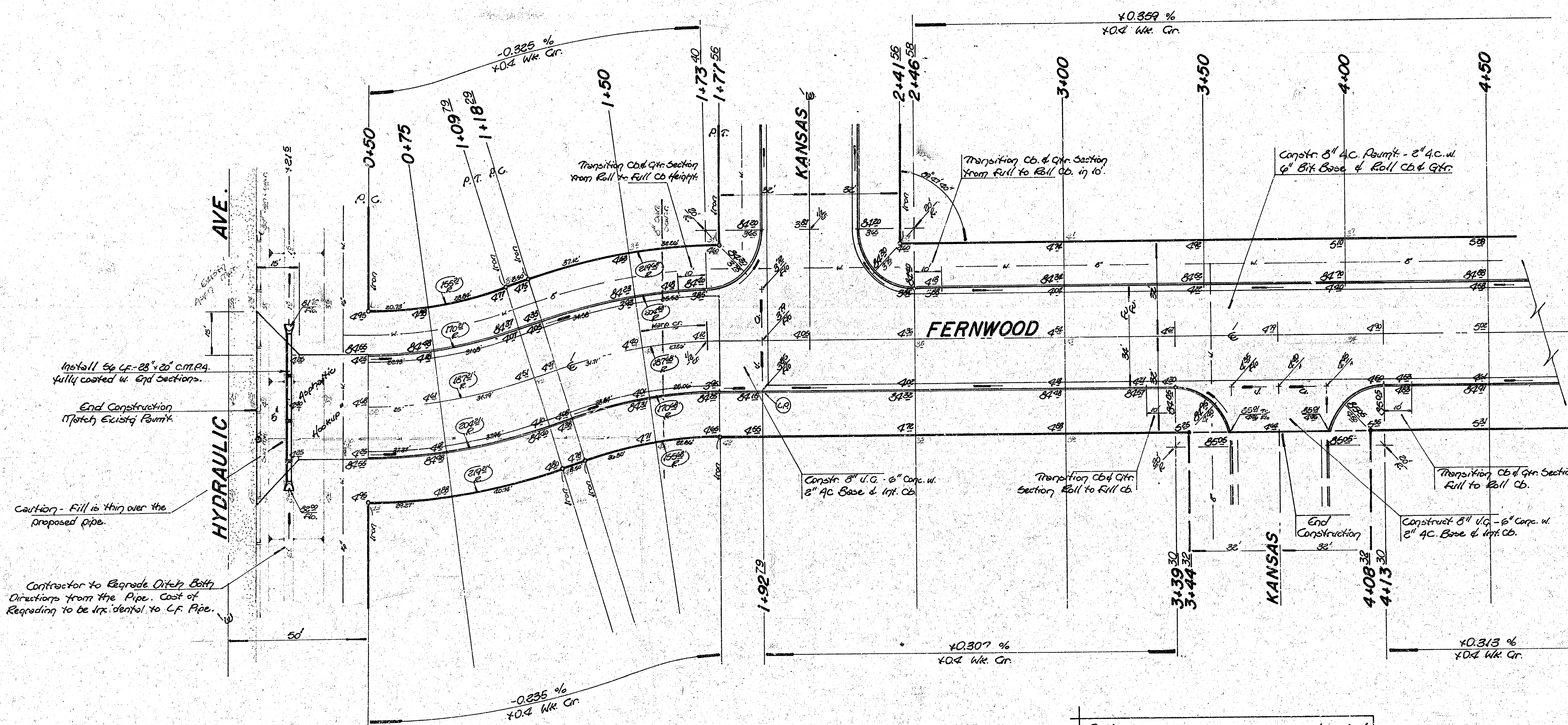
R.W. BRUGGEMAN - DIRECTOR OF ENGR/CITY ENGR

DATE: PROJ No. 412-76-243-80914-000-000-001 2/7

8.17 82.54 R.R. Spk. E. Fe. PP. N.W. Cor. Hydraulic & Fernwood W.
 8.17 84.20 City Std. Hydraulic & 47th St. So., 44' E. & 52' N. of & Both.

15-20' DRIVES

Survey - 4/1/9
 Plan - 4/1/9



Scale:
 1" = 20'

INTERSECTION QUANTITIES

S.Y.	Concrete Pavement
1462 S.Y.	Asphaltic Conc. Pavement (6" Bituminous Base)
63 S.Y.	Bituminous Base
214 L.F.	Combined Curb & Gutter
214 L.F.	Integral Curb
S.F.	4" Wheelchair Ramp
S.F.	4" Walk
220 C.Y.	Excavation
50 C.Y.	Compacted Fill
4075 Lbs.	Reinforcing Steel
222 S.Y.	Manipulation
2.5	Tons Lime or Cement
429 S.Y.	V.C. 6" Concrete & 2" Asphaltic Concrete Base
515 cy.	Borrow

INTERSECTION QUANTITIES

S.Y.	Concrete Pavement
1066 S.Y.	Asphaltic Conc. Pavement (6" Bituminous Base)
S.Y.	Bituminous Base
L.F.	Combined Curb & Gutter
428 L.F.	Integral Curb
S.F.	4" Wheelchair Ramp
S.F.	4" Walk
228 C.Y.	Excavation
50 C.Y.	Compacted Fill
4075 Lbs.	Reinforcing Steel
222 S.Y.	Manipulation
2.5	Tons Lime or Cement
910 S.Y.	V.C. 6" Concrete & 2" Asphaltic Concrete Base
515 cy.	Borrow

A = 18°18'00" R = 187.81' T = 30.15' L = 59.79' LC = 59.55'

Curve Data Based on $\Delta/2 = 9°09'00"$

Sta.	Arc	Chord	Offset	Dist.	Tot. Dist.
0+50	25'	21.65'	20.32'	5'44'35"	5'44'52"
0+75	34.79'	30.10'	29.35'	5'19'32"	9'05'55"

Defl. / Ft. = 9.18155 mm.

A = 18°05'40" R = 187.65' T = 29.65' L = 59.21' LC = 59.02'

Curve Data Based on $\Delta/2 = 9°05'50"$

Sta.	Arc	Chord	Offset	Dist.	Tot. Dist.
1+10.89	31.71'	26.89'	27.45'	4'50'25"	4'50'25"
1+42.60	23.40'	20.50'	23.87'	3'34'19"	6'24'44"
1+66.00	4.16'	4.16'	23.87'	0'35'00"	9'05'50"

Defl. / Ft. = 9.1555326 mm.

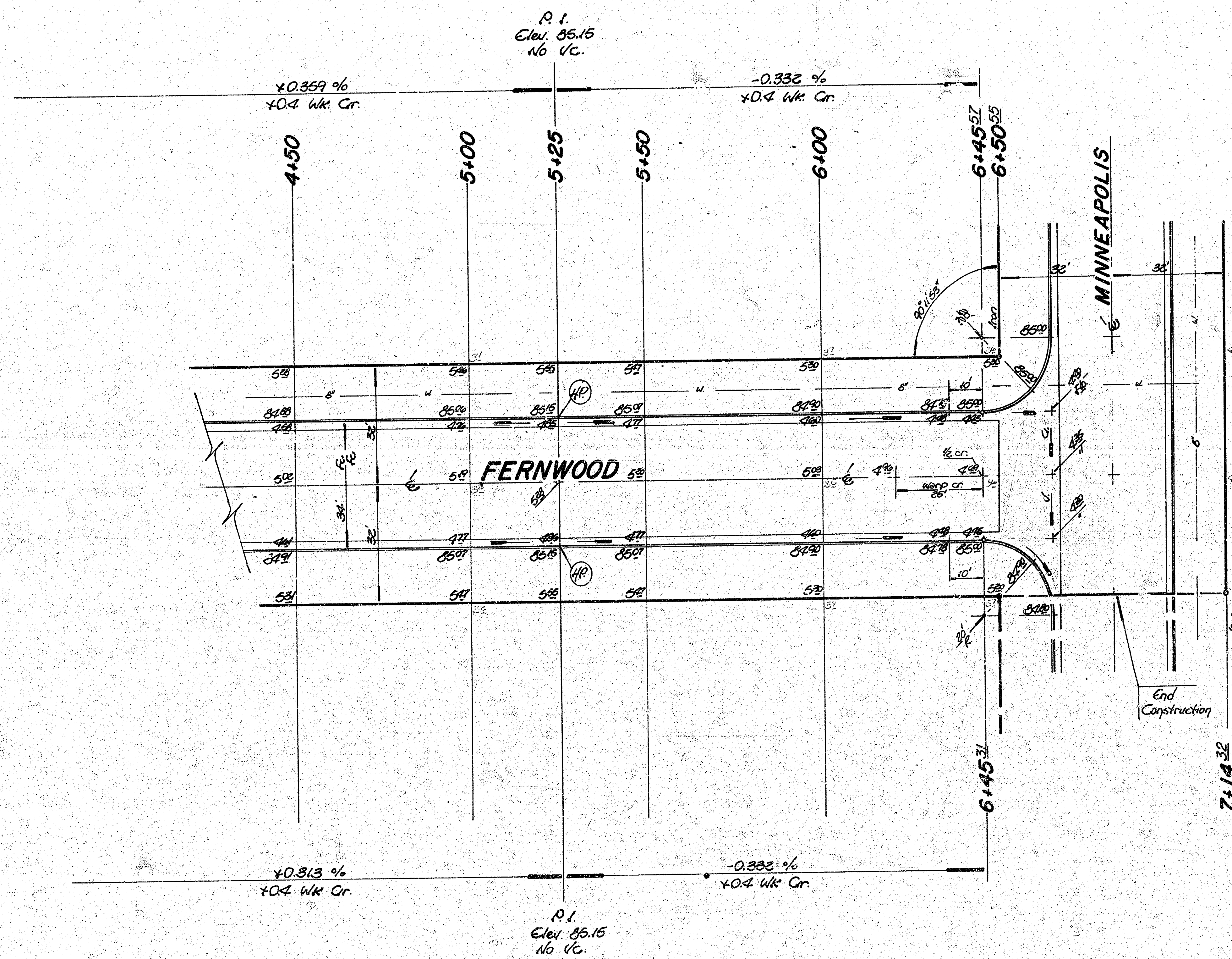
Earthwork

Quantities

Excavation = 109.7 cy	Comp. Fill = 179.2 cy	Borrow = 1789.1 cy	Excavation = 684 cy	Comp. Fill = 174 cy	Borrow = 172.5 cy
+10 % = 119.9 cy	+10 % = 197.1 cy	+10 % = 1968.0 cy	+10 % = 684 cy	+10 % = 191 cy	+10 % = 191.3 cy
Total = 229.7 cy	Total = 396.2 cy	Total = 3937.1 cy	Total = 768 cy	Total = 191.1 cy	Total = 189.8 cy
	Manipulation = 6301.2 cy			Manipulation = 607.2 cy	

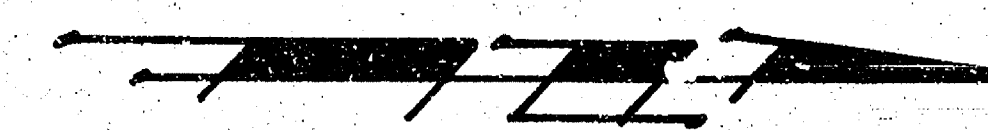
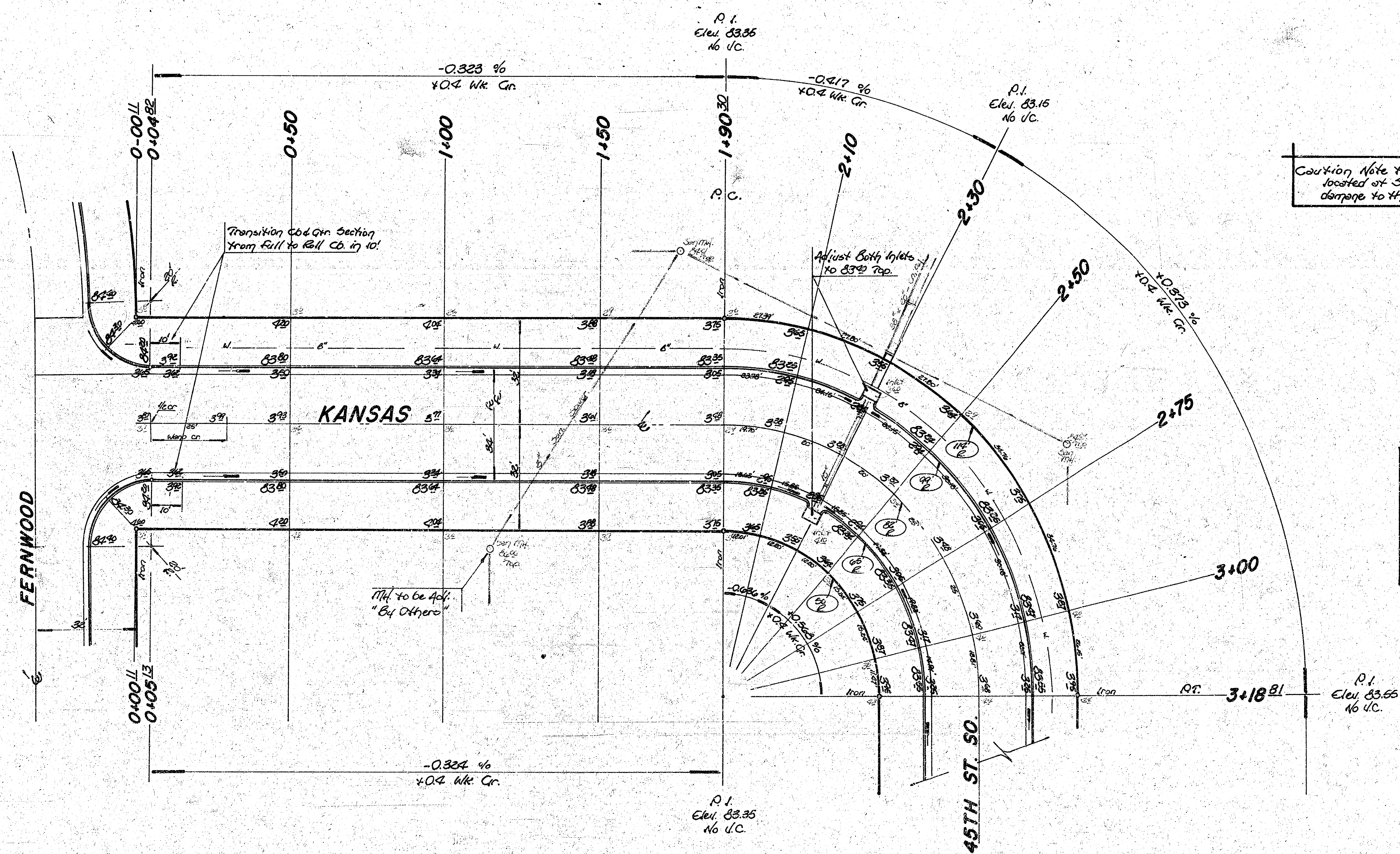
FERNWOOD

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FERNWOOD

4/7



Scale:
1" = 20'

Caution Note to Contractor: - Fill is thin over the 15" s.w.s. Pipe located at Sta. 2+30. Take the necessary steps to prevent any damage to the pipe during construction.

$A = 84^{\circ}41'40''$ $R = 82'$ $T = 61.76'$ $L = 128.61'$ $L.C. = 115.76'$

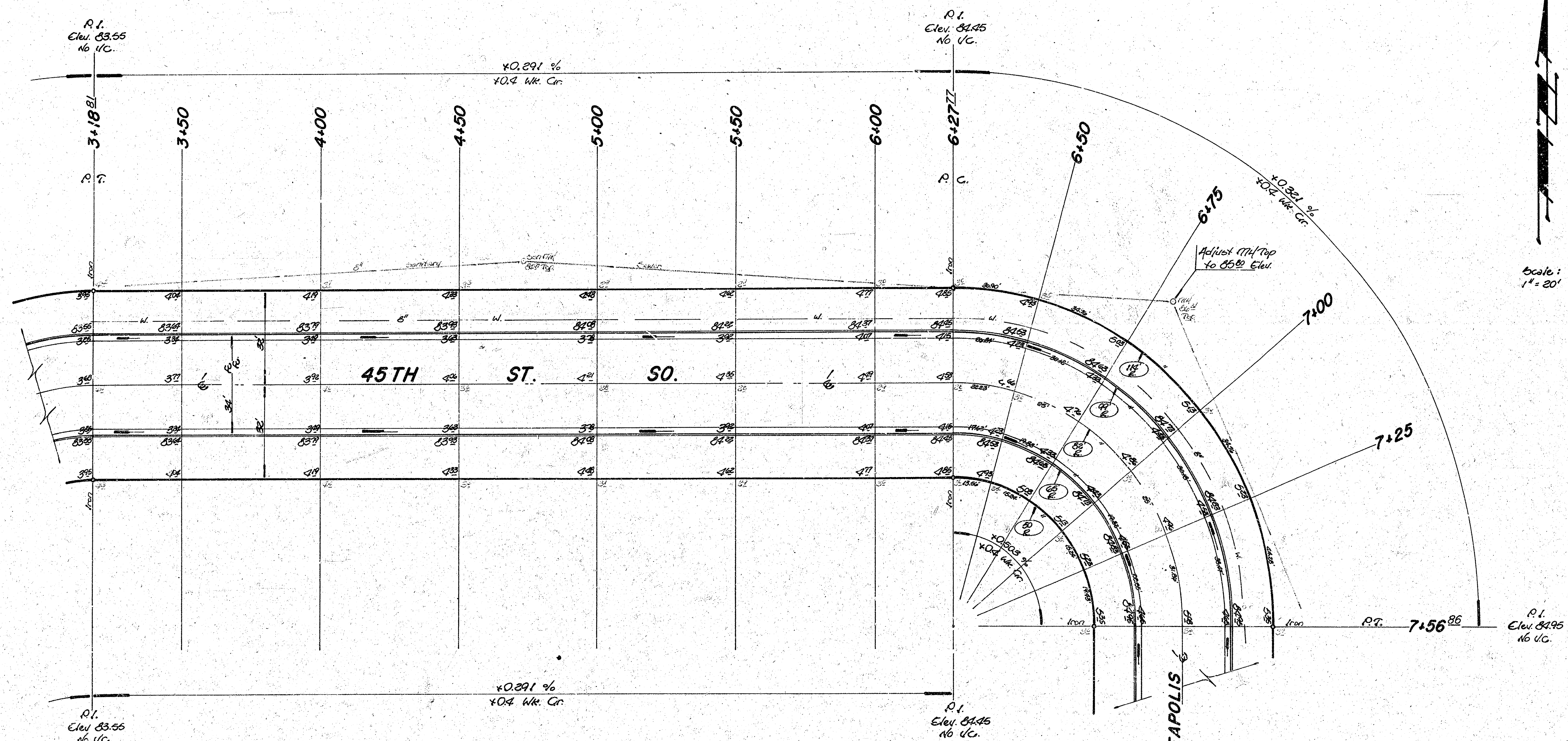
Curve Data Based on $\Delta = 84^{\circ}41'40''$

Sta.	Arc	From P.C. to Sta.	Length	Off. to Ch.	Off. to Ck.	Off. to Ck.
1+90.30			0' 00' 00"	0' 00' 00"	0' 00' 00"	0' 00' 00"
2+10	19.70'	26.64'	13.64'	6' 52' 57"	6' 52' 57"	6' 52' 57"
2+30	20'	26.03'	13.62'	6' 52' 14"	6' 52' 14"	6' 52' 14"
2+50	20'	26.03'	13.62'	6' 52' 14"	6' 52' 14"	6' 52' 14"
2+75	25'	32.50'	17.51'	8' 44' 03"	8' 44' 03"	8' 44' 03"
3+00	25'	32.50'	17.51'	8' 44' 03"	8' 44' 03"	8' 44' 03"
3+18.61	18.61'	34.49'	13.05'	6' 54' 18"	6' 54' 18"	6' 54' 18"

Deflection = 20.96187 mrad

KANSAS

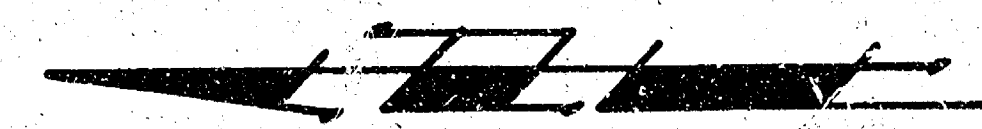
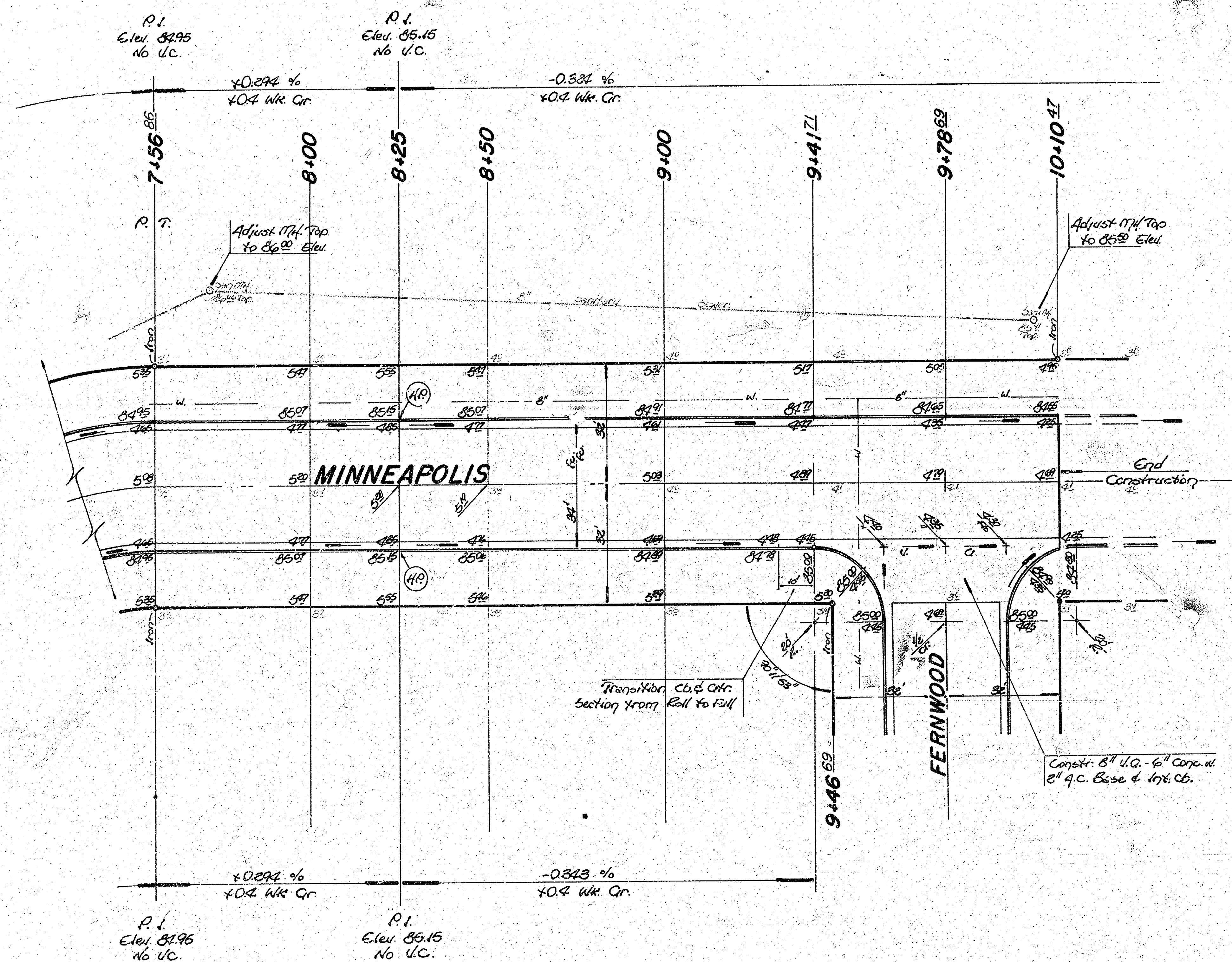
57



Scale: 1" = 20'

45TH ST. SO.

67



Scale:
1" = 80'

INTERSECTION QUANTITIES	
1000	S.Y. 8" Concrete Pavement
1000	S.Y. 8" Asphaltic Conc. Pavement (6" Bituminous Base)
1000	S.Y. 4" Bituminous Base
1000	L.F. Combined Curb & Gutter
420	L.F. Integral Curb
100	S.F. 4" Wheelchair Ramp
100	S.F. 4" Walk
220	C.Y. Excavation
60	C.Y. Compacted Fill
400	Lbs. Reinforcing Steel
200	S.Y. Manipulation
25	Tons Lime or Cement
910	S.Y. V.G. 6" Concrete & 2" Asphaltic Concrete Base
510	C.Y. Borrow

MINNEAPOLIS

(7/1)