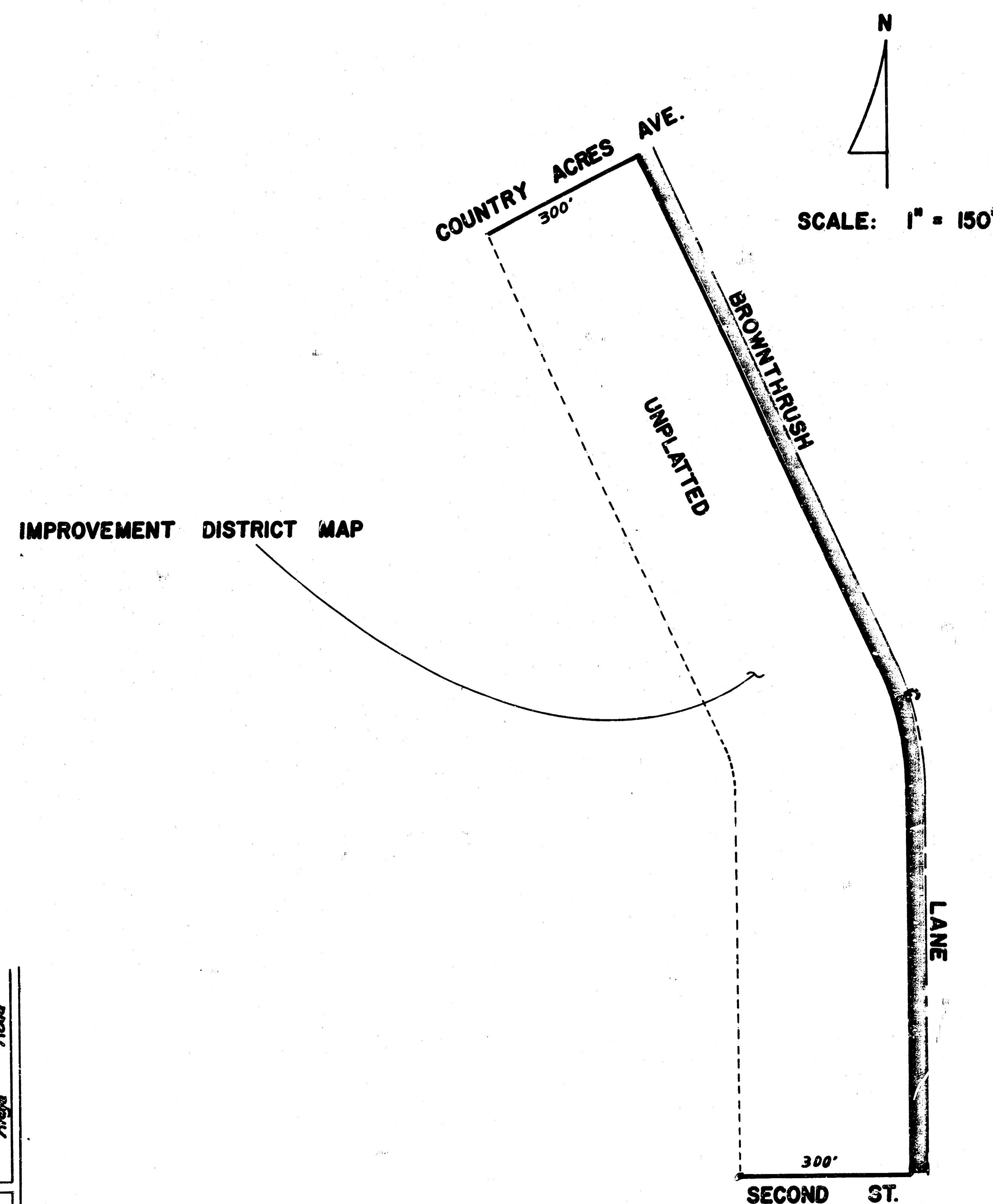
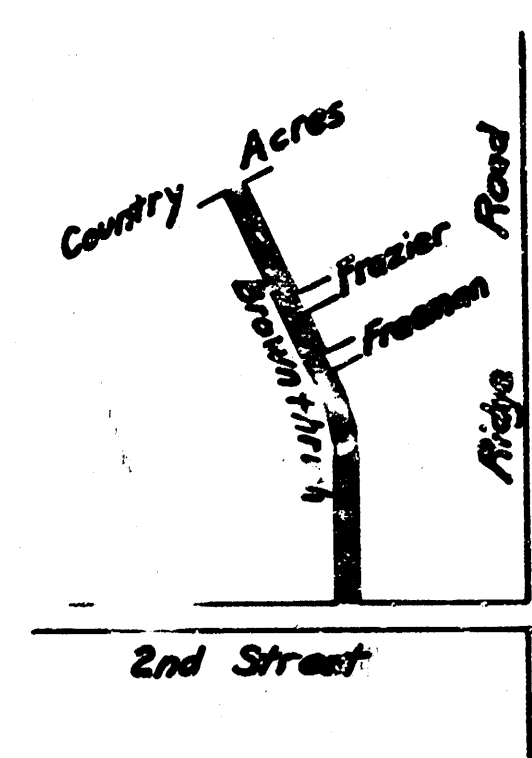


WEST HALF BROWNTHRUSH LANE

FROM THE NORTH LINE OF SECOND STREET TO THE SOUTH LINE OF COUNTRY ACRES AVENUE

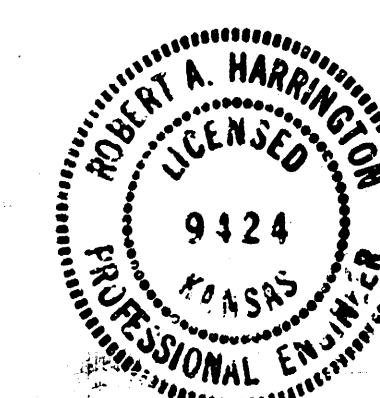


Location Map
Scale 1" = 1000'



GENERAL NOTES:

1. "DEFINED REMOVAL LINE" SHALL MEAN THAT LINE AS SHOWN ON THE PLAN (FROM STA. 0+99.7 TO STA. 13+22.72 AND FROM STA. 14+25.72 TO STA. 19+35.5) AT AND WEST OF WHICH EXISTING PAVEMENT SHALL BE SAUED AND REMOVED TO FACILITATE CENTERLINE JOINT CONSTRUCTION. SAUED JOINT AND PAVEMENT REMOVED AT AND WEST OF THE DEFINED REMOVAL LINE SHALL BE SUBSIDIARY TO OTHER BID ITEMS.
2. CENTERLINE GRADES OF THE PROPOSED NEW ASPHALT PAVEMENT SHALL BE SET AS SHOWN ON PLAN. PROPOSED NEW ASPHALT SHALL MATCH THE EXISTING PAVEMENT AT THE DEFINED REMOVAL LINE, EXCEPT AT LOCATIONS OF SIGNIFICANT DETERIORATION OR UNEVENNESS OF THE ADJACENT EXISTING PAVEMENT. AT SUCH LOCATIONS, THE FIELD ENGINEER SHALL EXAMINE THE EXISTING PAVEMENT AND OUTLINE THE ADDITIONAL PAVEMENT EAST OF THE DEFINED REMOVAL LINE THAT MUST BE REMOVED TO PROVIDE A SMOOTH CROWN AND PREVENT PONDING. NOT MORE THAN 200 S.Y. OF EXISTING PAVEMENT EAST OF THE DEFINED REMOVAL LINE SHALL BE SO REMOVED. THE CONTRACTOR SHALL NOT REMOVE ANY PAVEMENT EAST OF THE DEFINED REMOVAL LINE EXCEPT AT THE SPECIFIC DIRECTION OF THE FIELD ENGINEER.



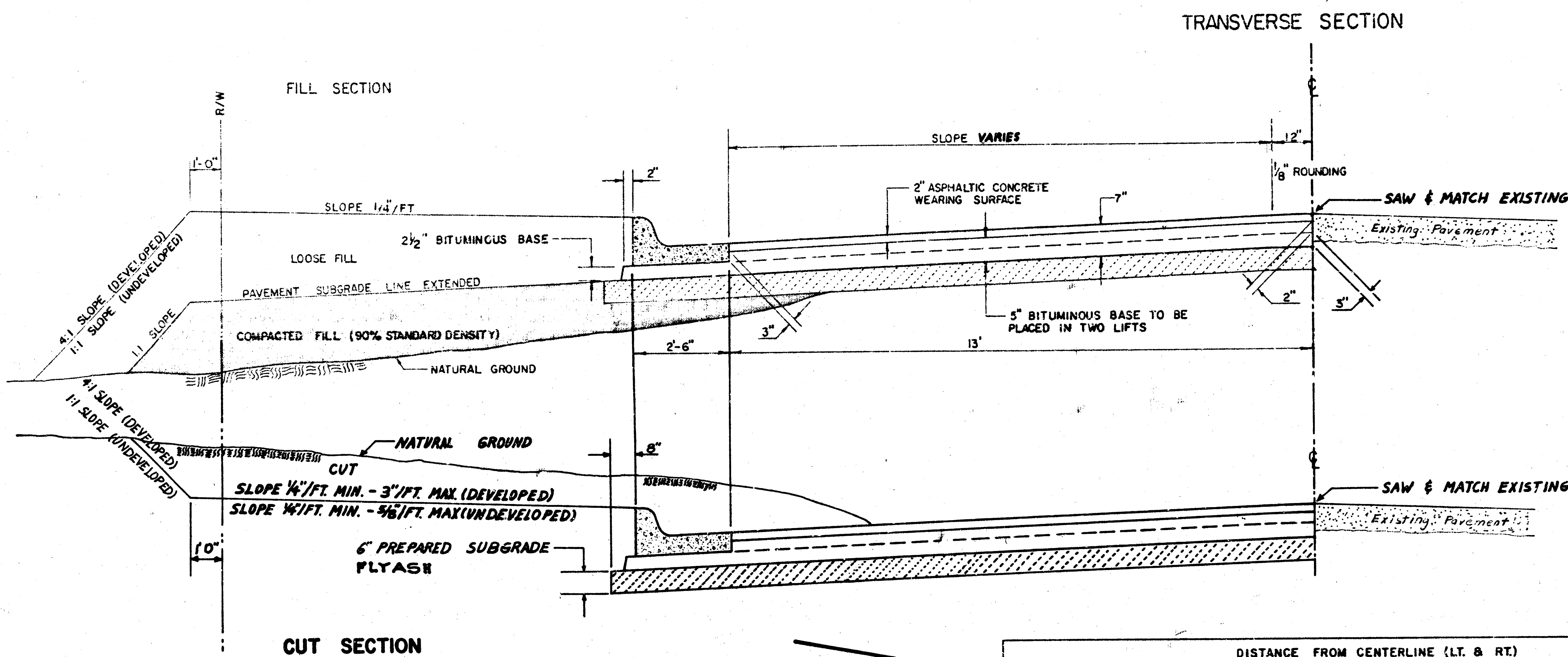
PROJECT NO. 472-76-245-81370-000-G00-001

CITY OF WICHITA M. E. LINDEBAK CITY ENGINEER

LANDCO ENGINEERING CONSULTANT ENGINEER

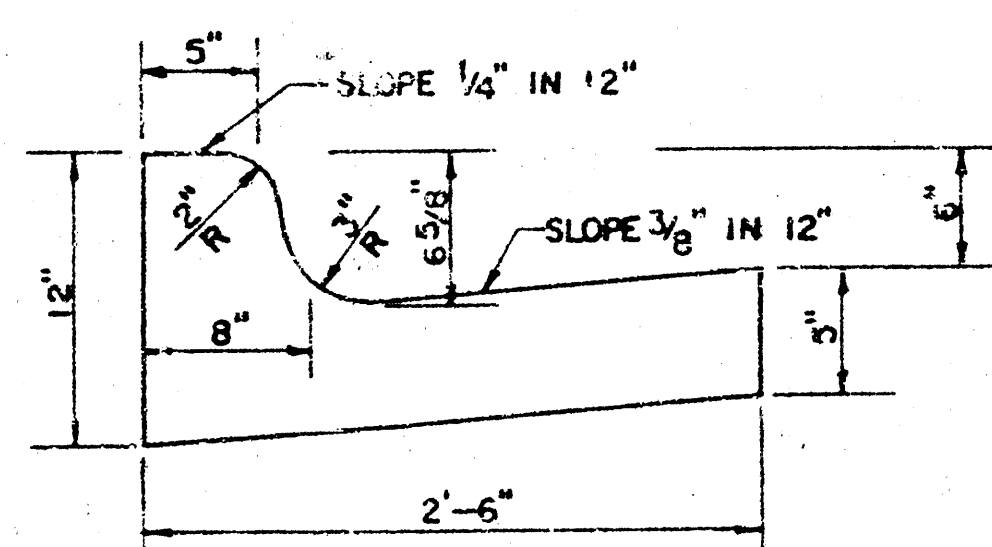
TYPICAL PAVEMENT DETAILS

WEST HALF BROWNTHRUSH - N.L. SECOND TO S.L. COUNTRY ACRES

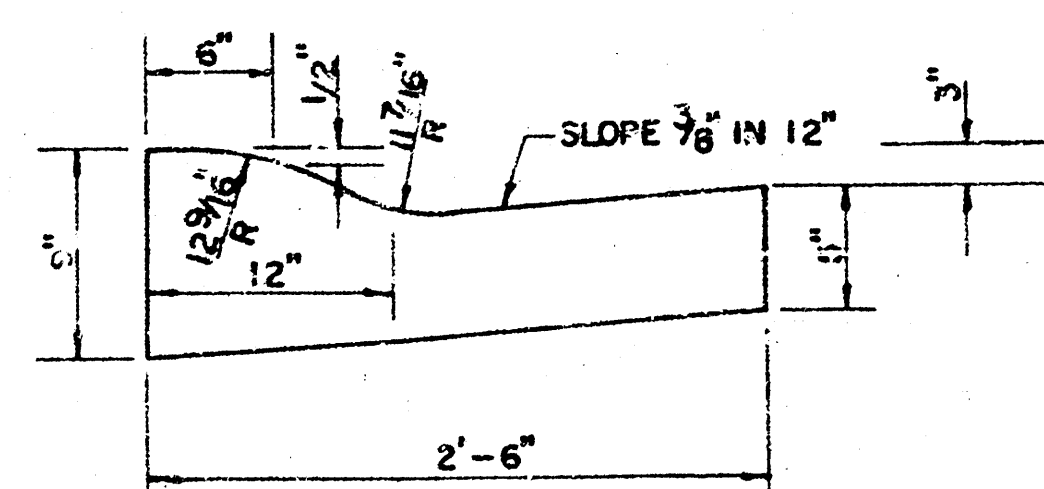


	DISTANCE FROM CENTERLINE (LT. & RT.)											
	0'	2'	4'	6'	7.5'	10'	12'	13'	15'	15.5'	15.67'	16.17'
A. TOP OF CURBS TO TOP OF SURFACE LIFT	0.10	0.14	0.21	0.27	0.32	0.39	0.46	0.49	—	—	—	—
B. TOP OF CURBS TO TOP OF UPPER BASE LIFT	0.27	0.31	0.38	0.44	0.49	0.56	0.63	0.66	—	—	—	—
C. TOP OF CURBS TO TOP OF LOWER BASE LIFT	0.44	0.48	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



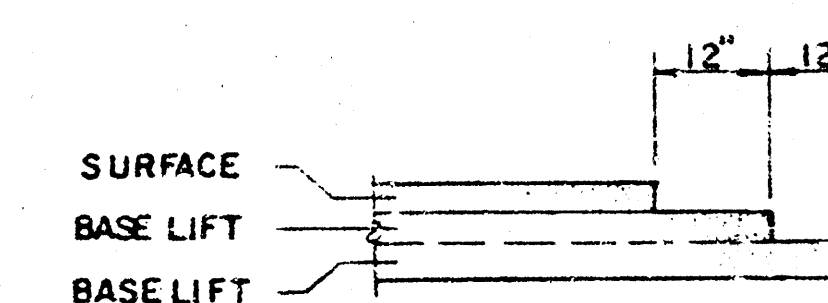
ROLL TYPE COMBINED CURB & GUTTER



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-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 JOINS 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
PROJECT NUMBER
472-76-245-81370-000-000-001

10 1 5 2

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B.M. El. 147.16 "4" in TC, E-side Brownthrush at NW corner Lot 5,
Block P, Meadowview Estates Addn. (360 N. Brownthrush)
B.M. El. 147.54 "W" in "COFW 1976" on TC at E-end return, SE
corner Freeman & Brownthrush

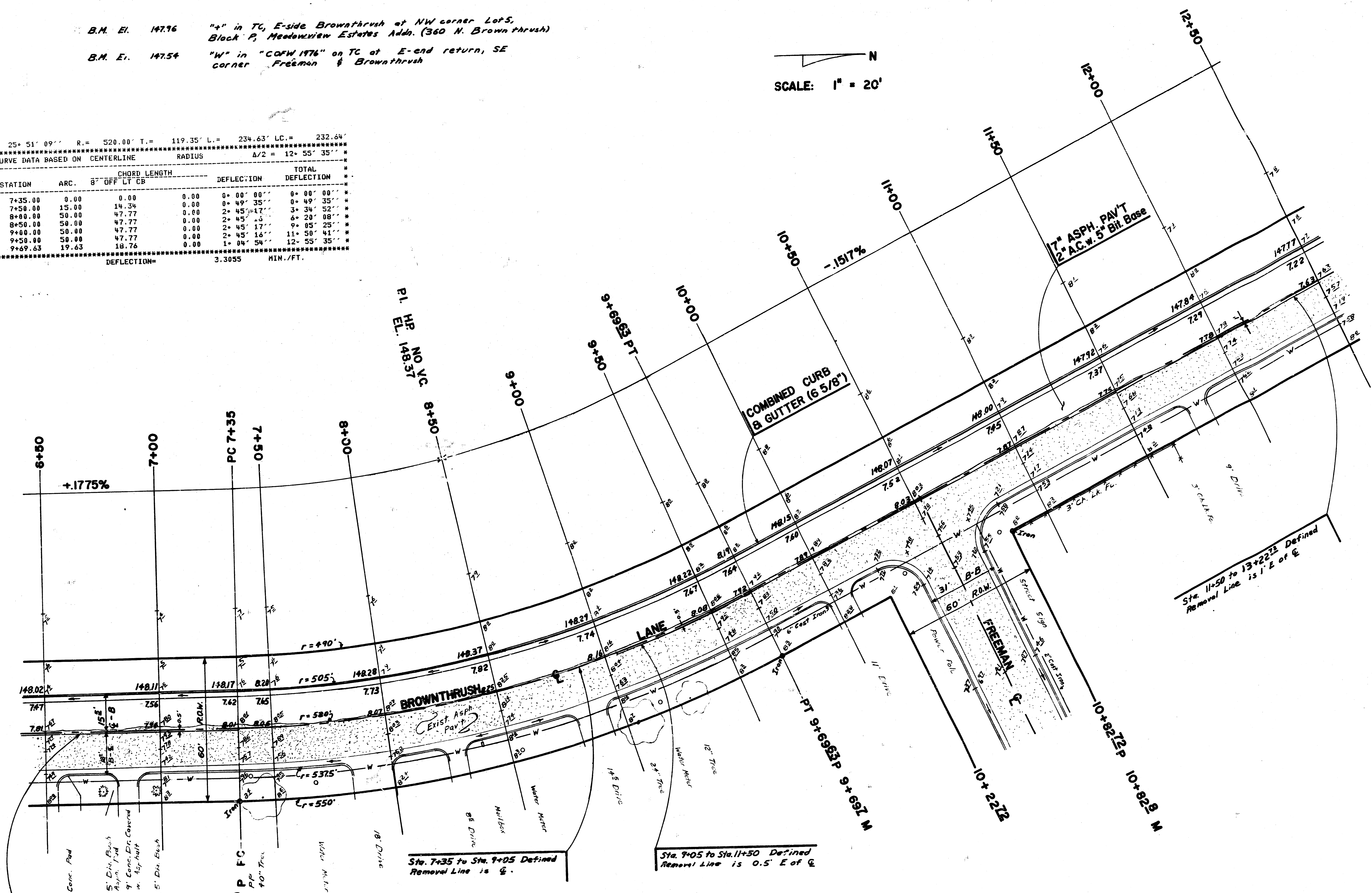
SCALE: 1" = 20'

$\Delta = 25^\circ 51' 09''$ $R = 520.00'$ $T = 119.35'$ $L = 234.63'$ $LC = 232.64'$

 * CURVE DATA BASED ON CENTERLINE RADIUS $\Delta/2 = 12^\circ 55' 35''$ *

* STATION	ARC	CHORD LENGTH	DEFLECTION	TOTAL DEFLECTION
		8" OFF LT CB		
* 7+35.00	0.00	0.00	0° 00' 00"	0° 00' 00"
* 7+50.00	15.00	14.34	0° 49' 35"	0° 49' 35"
* 8+00.00	50.00	47.77	2° 45' 17"	2° 45' 17"
* 8+50.00	50.00	47.77	2° 45' 17"	5° 00' 34"
* 9+00.00	50.00	47.77	2° 45' 17"	7° 45' 51"
* 9+49.63	19.63	18.76	1° 04' 54"	12° 55' 35"

 DEFLECTION = 3.3055 MIN./FT.



Sta. 5+30 to Sta. 7+35 Defined
Removal Line is 0.5' E. of C.

Sta. 7+35 to Sta. 9+05 Defined
Removal Line is C.

Sta. 9+05 to Sta. 11+50 Defined
Removal Line is 0.5' E. of C.

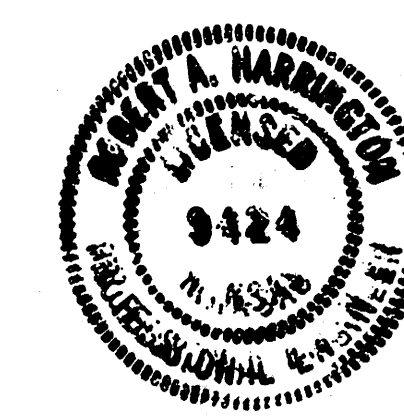
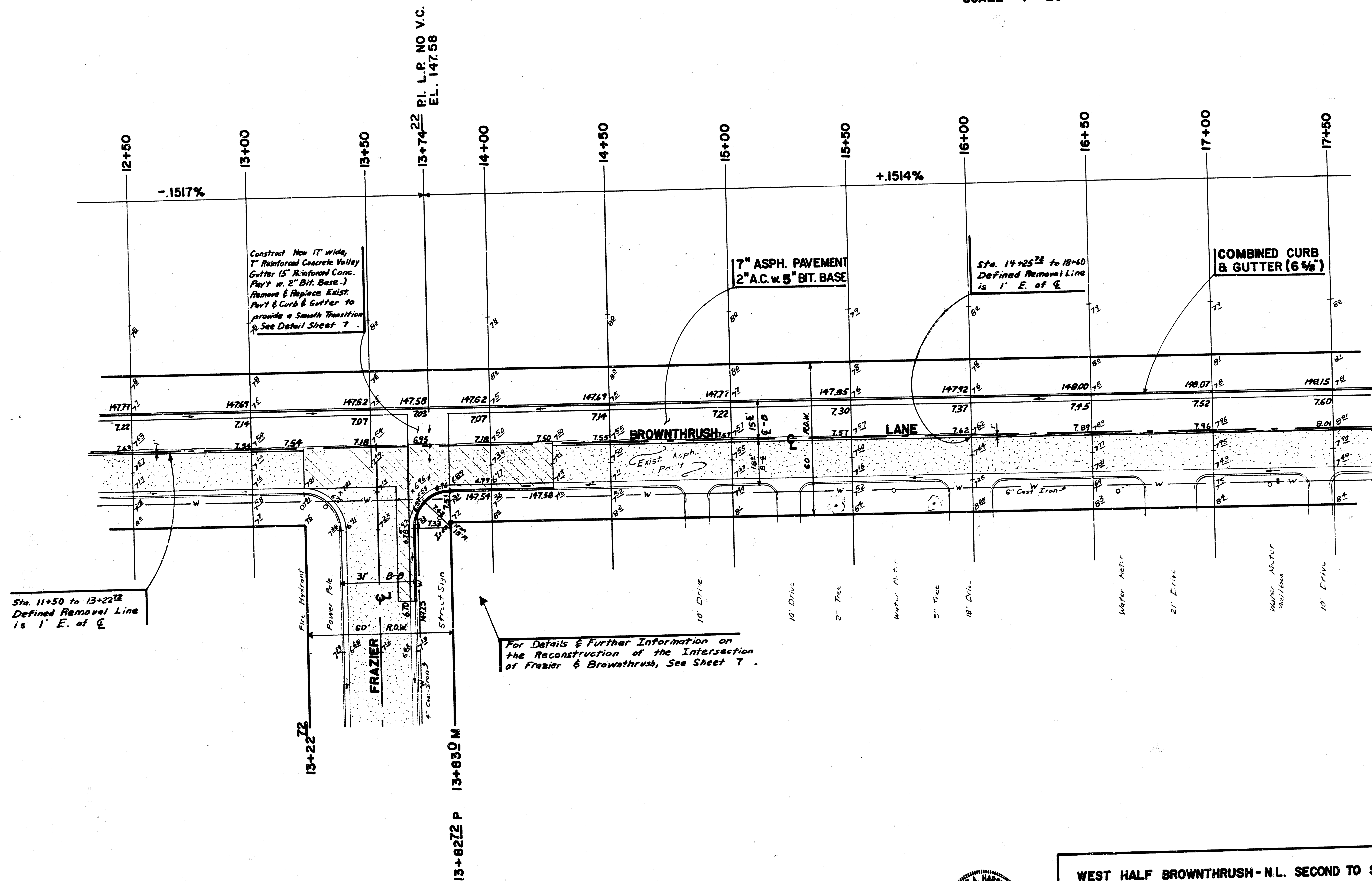
Sta. 11+50 to 13+22.5 Defined
Removal Line is 1' E. of C.



WEST HALF BROWNTHRUSH - N.L. SECOND TO S.L. COUNTRY ACRES
 PROJECT NO. 472-76-245-81370-000-000-001
 CITY OF WICHITA M. E. LINDEBAK CITY ENGINEER
 LANDCO ENGINEERING CONSULTANT ENGINEER
 BOOK DS2 DRAWN BY RH DATE 2/85

B.M. El. 149.56 "M" in "ALABAMA" on Fire Hydrant, SE corner Frazier & Brownthrush
 B.M. El. 147.69 "+" on TC of N-end Drive Return at 524 N. Brownthrush

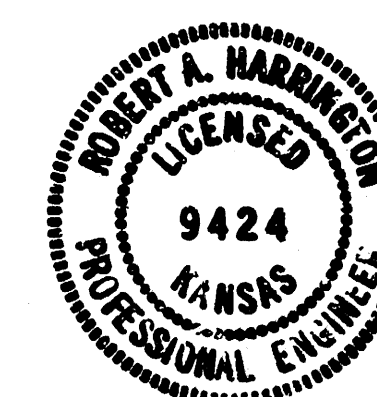
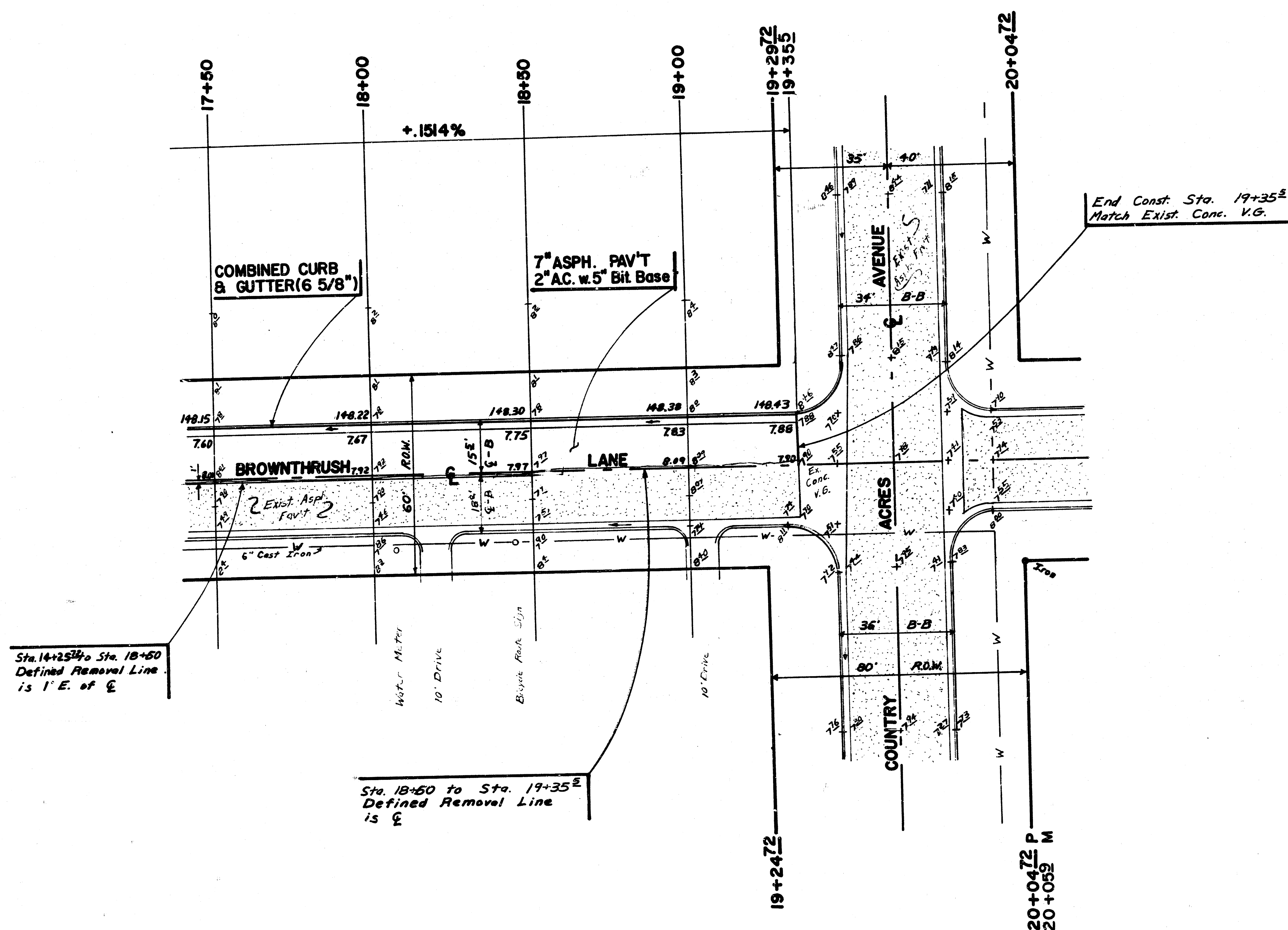
N
 SCALE 1" = 20'



WEST HALF BROWNTHRUSH - N.L. SECOND TO S.L. COUNTRY ACRES
 PROJECT NO. 472-76-245-81370-000-000-001
 CITY OF WICHITA M. E. LINDEBAK CITY ENGINEER
 LANDCO ENGINEERING CONSULTANT ENGINEER
 BOOK DS2 DRAWN BY RH DATE 2/85

B.M. El. 147.92 "+" in TC, E-end return SE-corner
Country Acres and Brownthrush

SCALE 1" = 20'

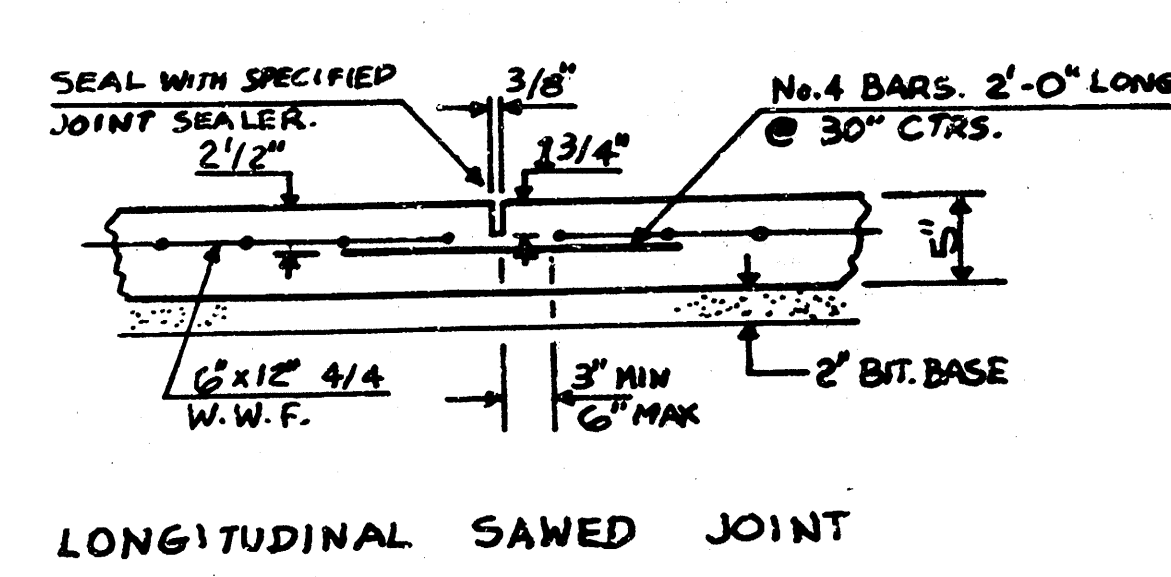
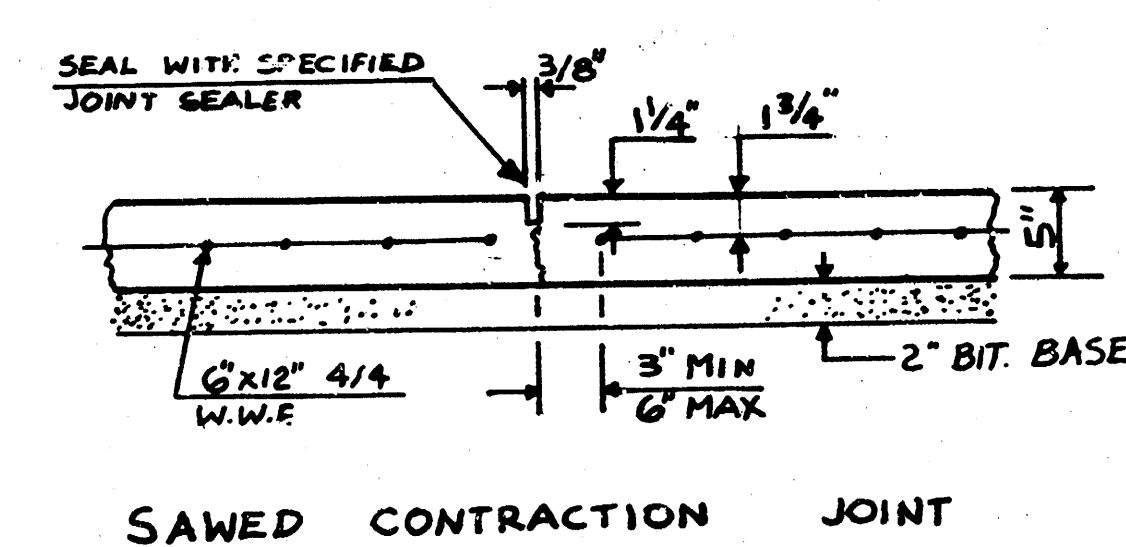
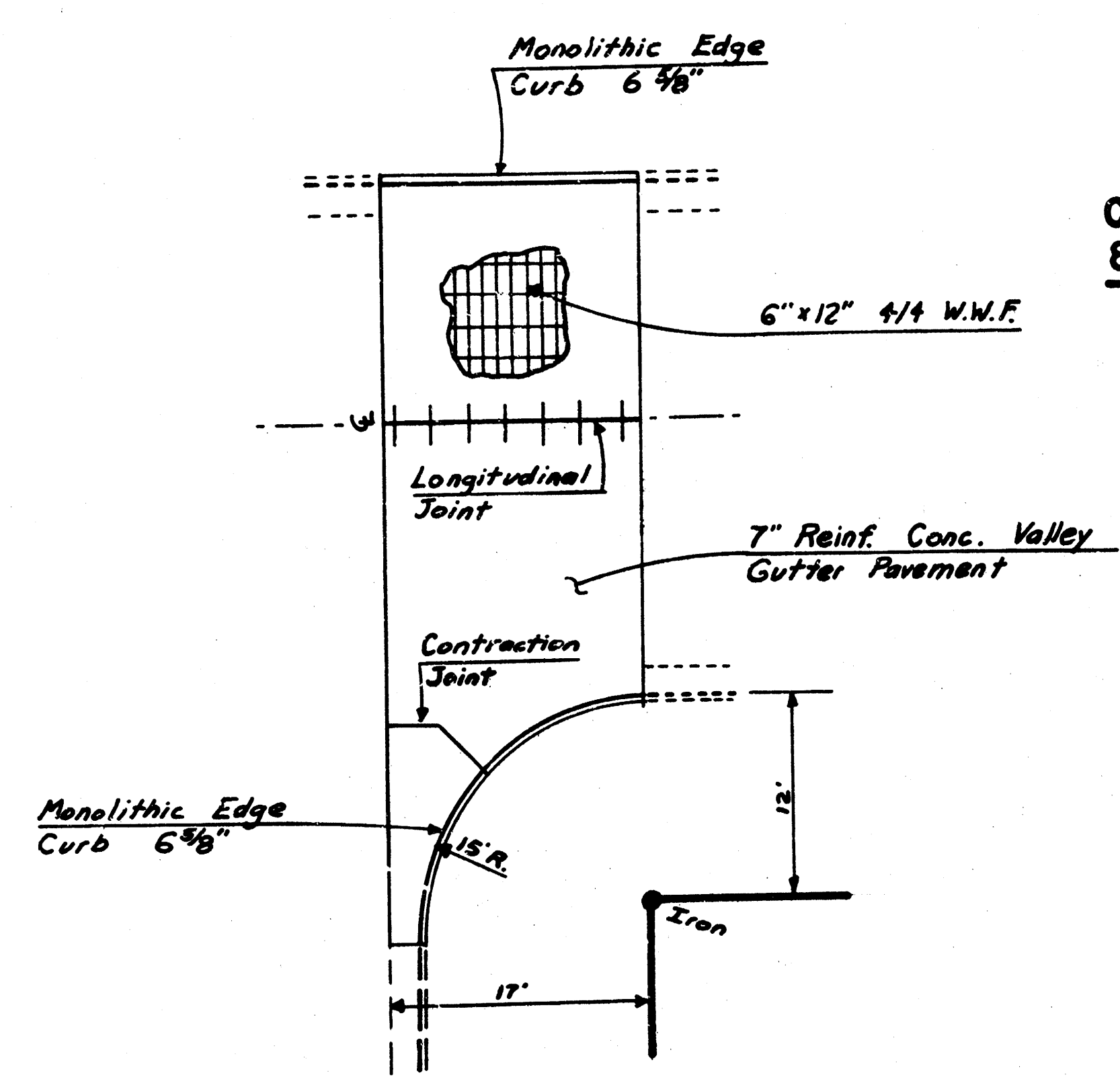


WEST HALF BROWNTHRUSH - N.L. SECOND TO S.L. COUNTRY ACRES
PROJECT NO. 472-76-245-81370-000-000-001
CITY OF WICHITA M. E. LINDEBAK CITY ENGINEER
LANDCO ENGINEERING CONSULTANT ENGINEER
BOOK DS2 DRAWN BY RH DATE 2/85

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DETAIL OF RECONSTRUCTION OF INTERSECTION OF BROWNTHRUSH & FRAZIER

SCALE 1" = 10' N



COMBINED CURB & GUTTER (6 5/8")

7" ASPHALT PAVEMENT
2" A.C. w. 5" BIT. BASE

MONOLITHIC CURB (6 5/8")

7" REIN. CONC. VALLEY GUTTER
(5" REIN. CONC. PAVEMENT w.
2" BITUMINOUS BASE)

DIAGONAL HATCHES DENOTES REMOVAL

Begin at Sta. 13+22.72 to Saw & Remove
Exist. Pav't as Shown. Replace Exist.
Pav't with New 7" Asph. Pav't (2" A.C.
w. 5" B.B.) Set Pav't Grades as Shown.
New Pav't to Match Exist. at Saw Joint.

Sta. 13+82.72 to Sta. 14+25.72
Remove 43 LF Exist. Curb &
Gutter. Replace w. 6 5/8"
Combined Curb & Gutter

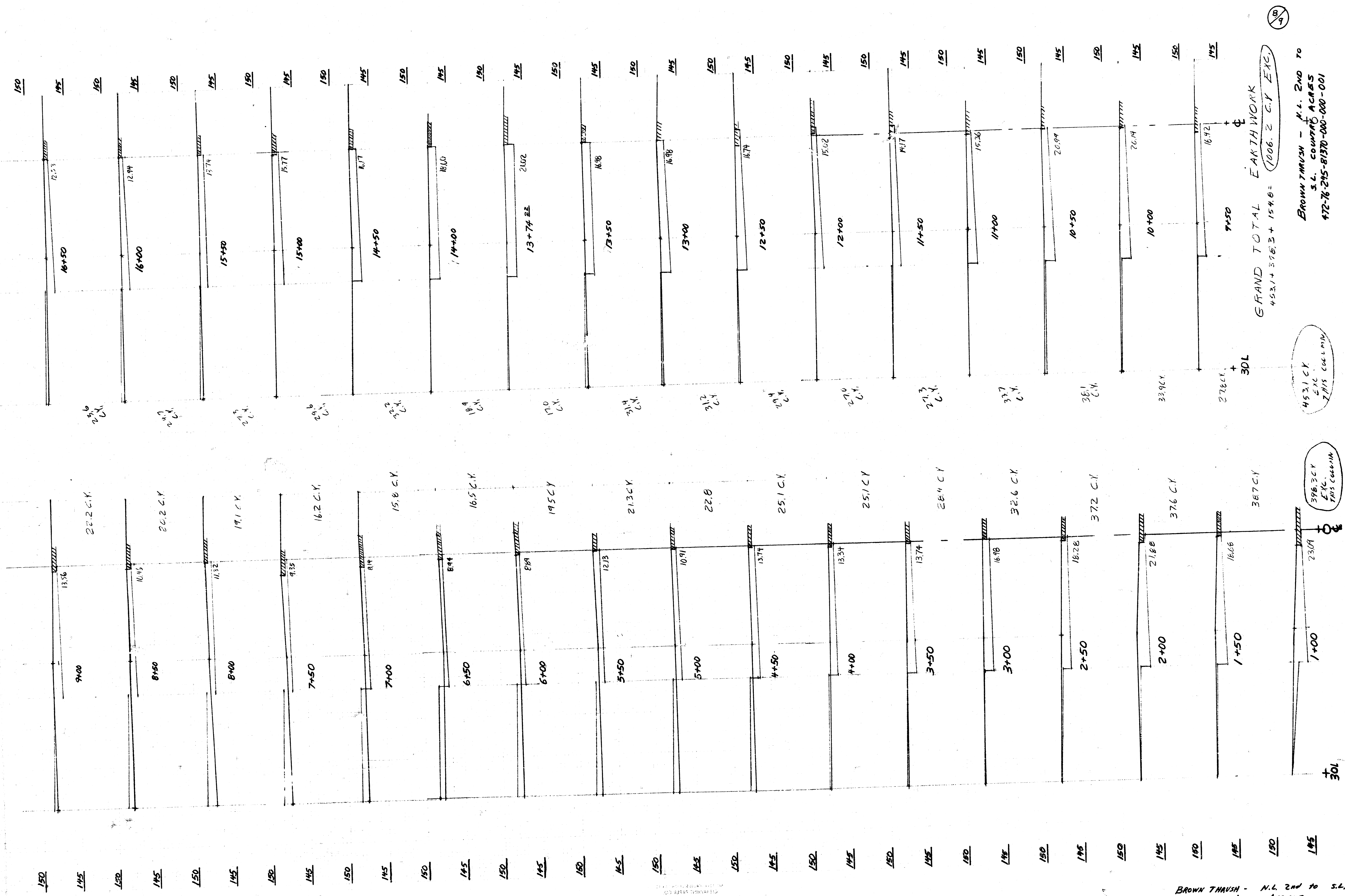
Remove 23.6 LF Exist. Curb &
Gutter at Return. Replace w.
7" Rein. Conc. V.G. Pav't and
23.6 LF 6 5/8" Monolithic Curb

Remove 28.3 LF Exist. Curb & Gutter
From E-end Return to Contraction Joint
at 28.3' East of E-end Return. Replace
w. 28.3 LF 6 5/8" Combined Curb & Gutter

NOTE:
Per Specifications, Curb & Gutter
Removed Adjacent to Pav't Removed
is Paid as S.K. Pav't Removed



WEST HALF BROWNTHRUSH - N.L. SECOND TO S.L. COUNTRY ACRES
PROJECT NO. 472-76-245-81370-000-000-001
CITY OF WICHITA M. E. LINDEBAK CITY ENGINEER
LANDCO ENGINEERING CONSULTANT ENGINEER
BOOK DS2 DRAWN BY RH DATE 2/85



BROWN THAUSH - N.L. 2nd to S.L.
Country Acres Avenue
472-76-245-81370-000-000-001

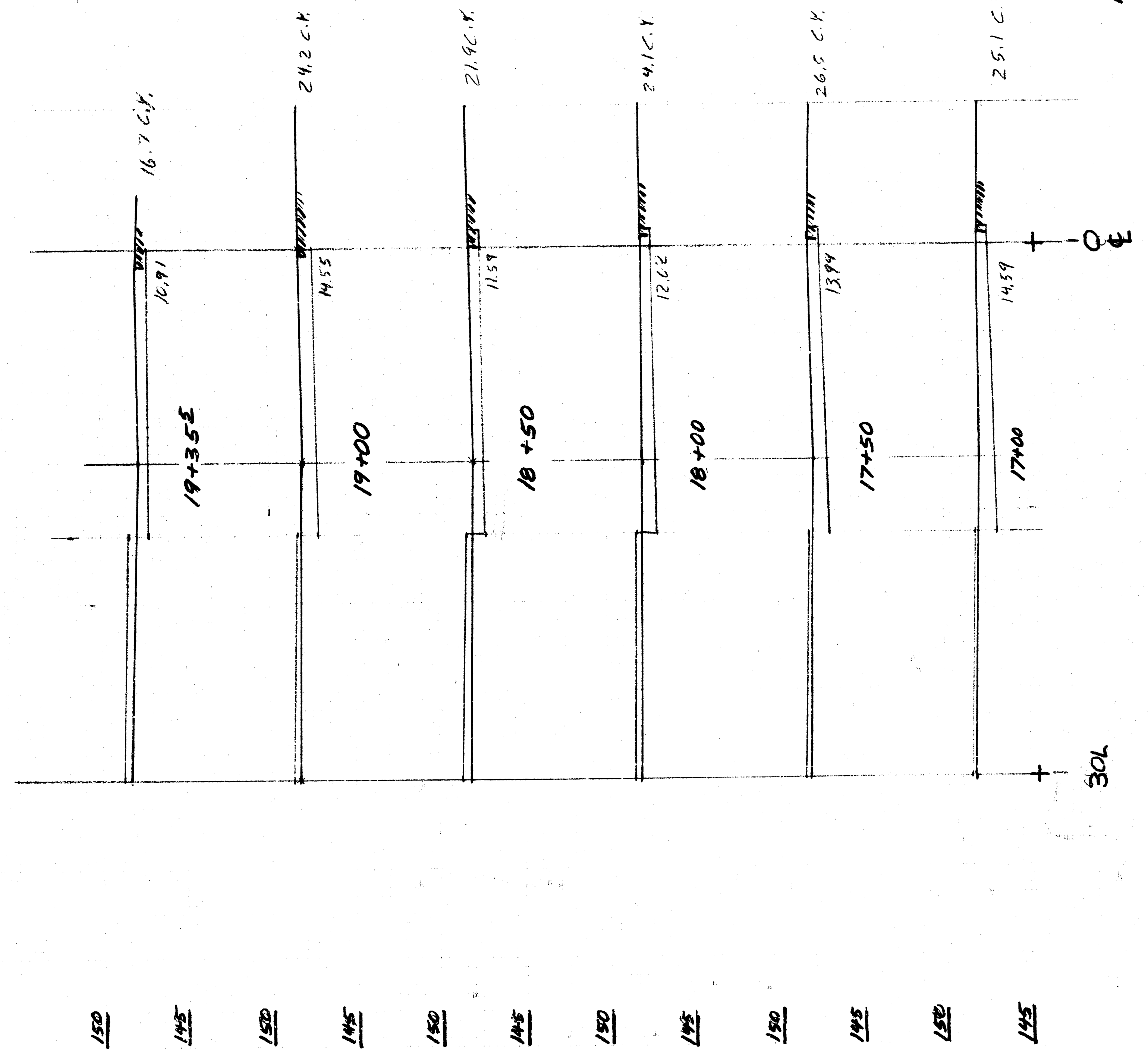
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GRAND TOTAL EARTHWORK
453.1 + 396.3 + 154.8 = 1006.2 C.Y. EXC.

BROWN THAUSH - N.L. 2nd to S.L.
Country Acres Avenue
472-76-245-81370-000-000-001

396.3 CY
EXC.
TMS COLUMN

453.1 CY
EXC.
TMS COLUMN



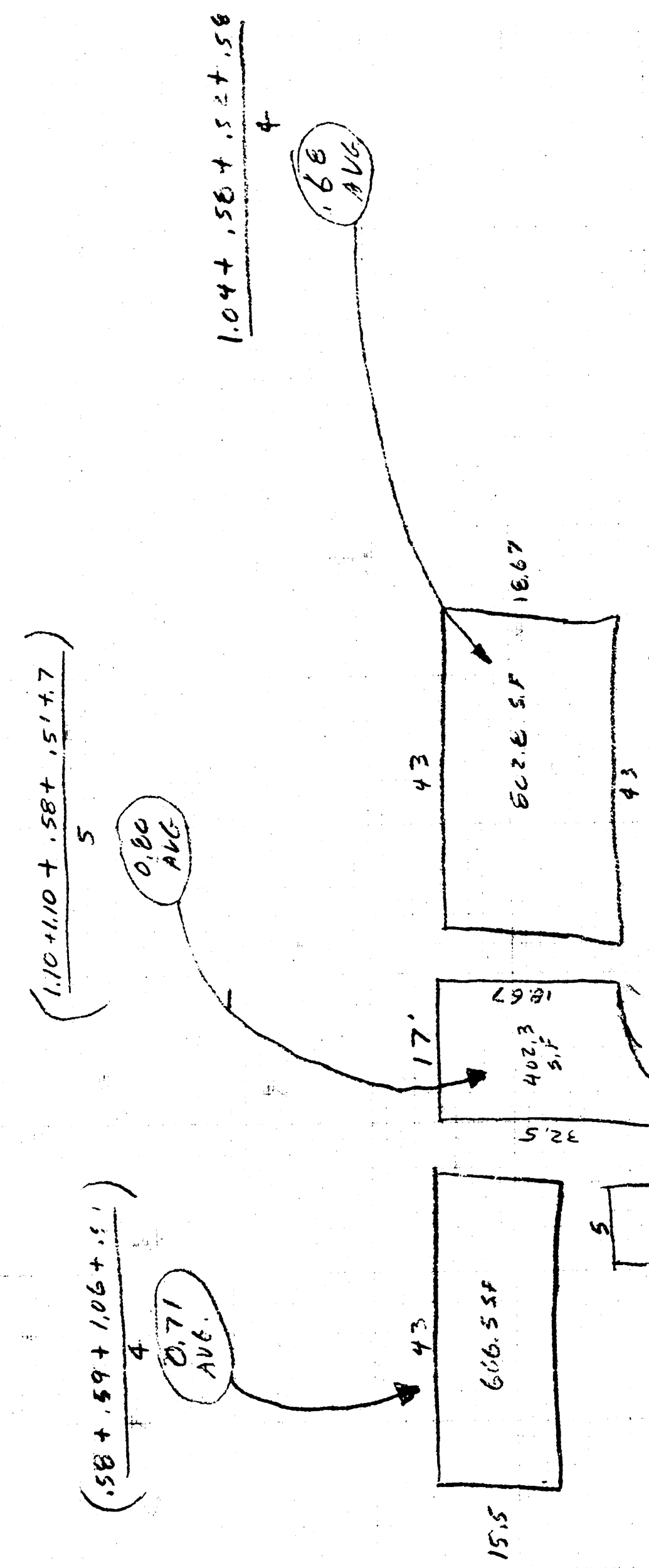
154.6 C.Y. EXC.
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BROWNTHUSH - N.L. 2ND TO
S.L. COUNTRY ACRES
472-76-245-81370-000-001

INT. FRAZIER & BROWNTHUSH

1533.84 - 1093.9 = 429.94 C.Y.
= 16.3 C.Y.
EXCAVATION

$$[(-.71) \times 666.5] + [90 \times 400.3] + [802.8 \times .66] \\ + [61 \times 316.2] = 1533.84 \text{ C.Y.} \\ \text{LESS ON ADJ. W. ADK} \\ \text{depth of an existing} \\ \text{portion of 6"} \\ .5 \times [666.5 + 402.3 + 802.8 + 316.2] \\ = 1093.9 \text{ C.F.}$$



$$.59 + .59 + .59 + .59 + .71 = 2.47 \text{ AVG.}$$

$$(.58 + .59 + 106 + .51) / 4 = 27.1 \text{ AVG.}$$

$$(110 + 110 + .58 + .51 + .71) / 5 = 44.0 \text{ AVG.}$$

$$1.04 + .58 + .51 + .56 = 2.7 \text{ AVG.}$$