

STATE OF KANSAS  
STATE HIGHWAY COMMISSION

PROJ. NO. 226-87-US 256(3)  
PROJ. NO. 226-87-US 256(3)

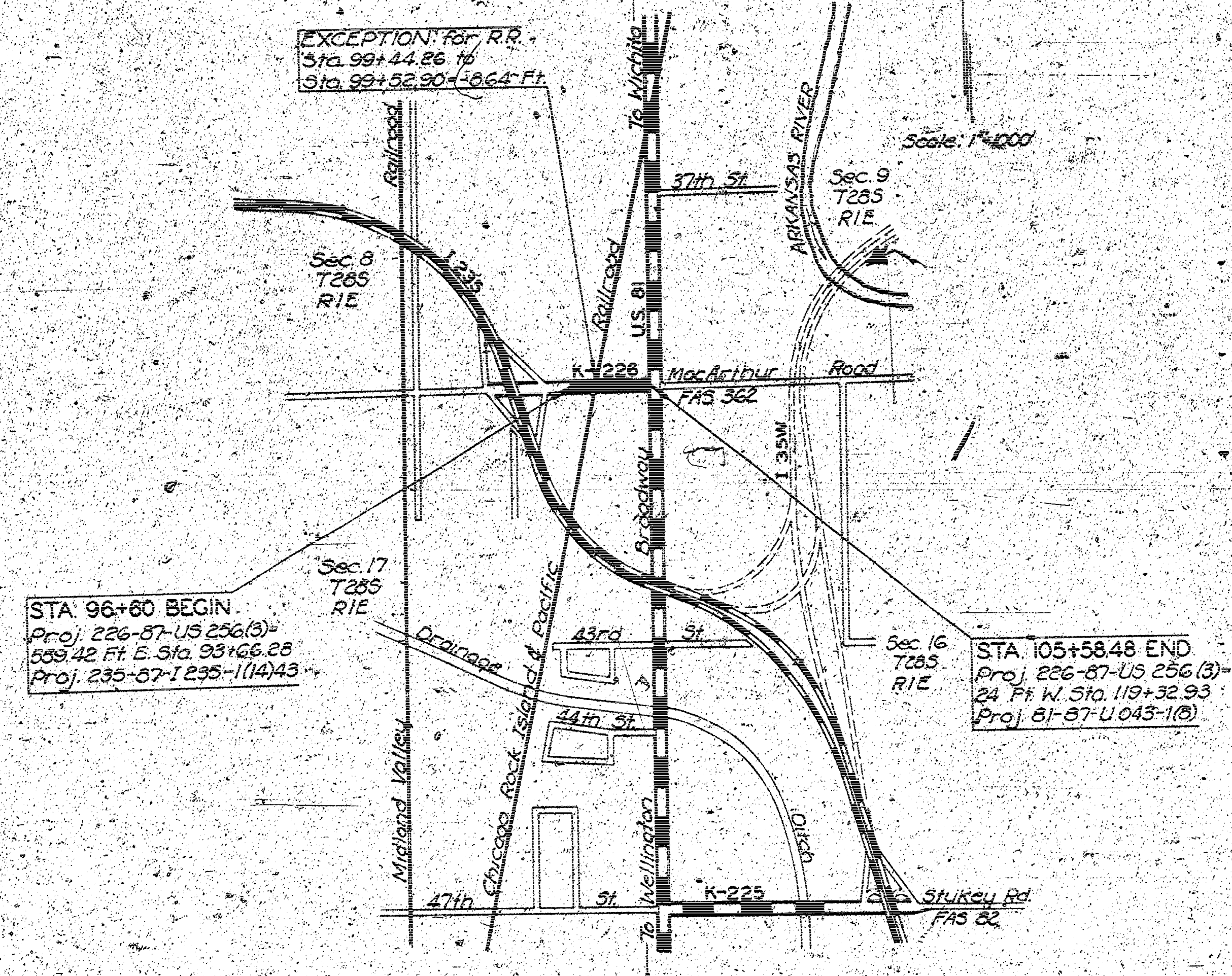
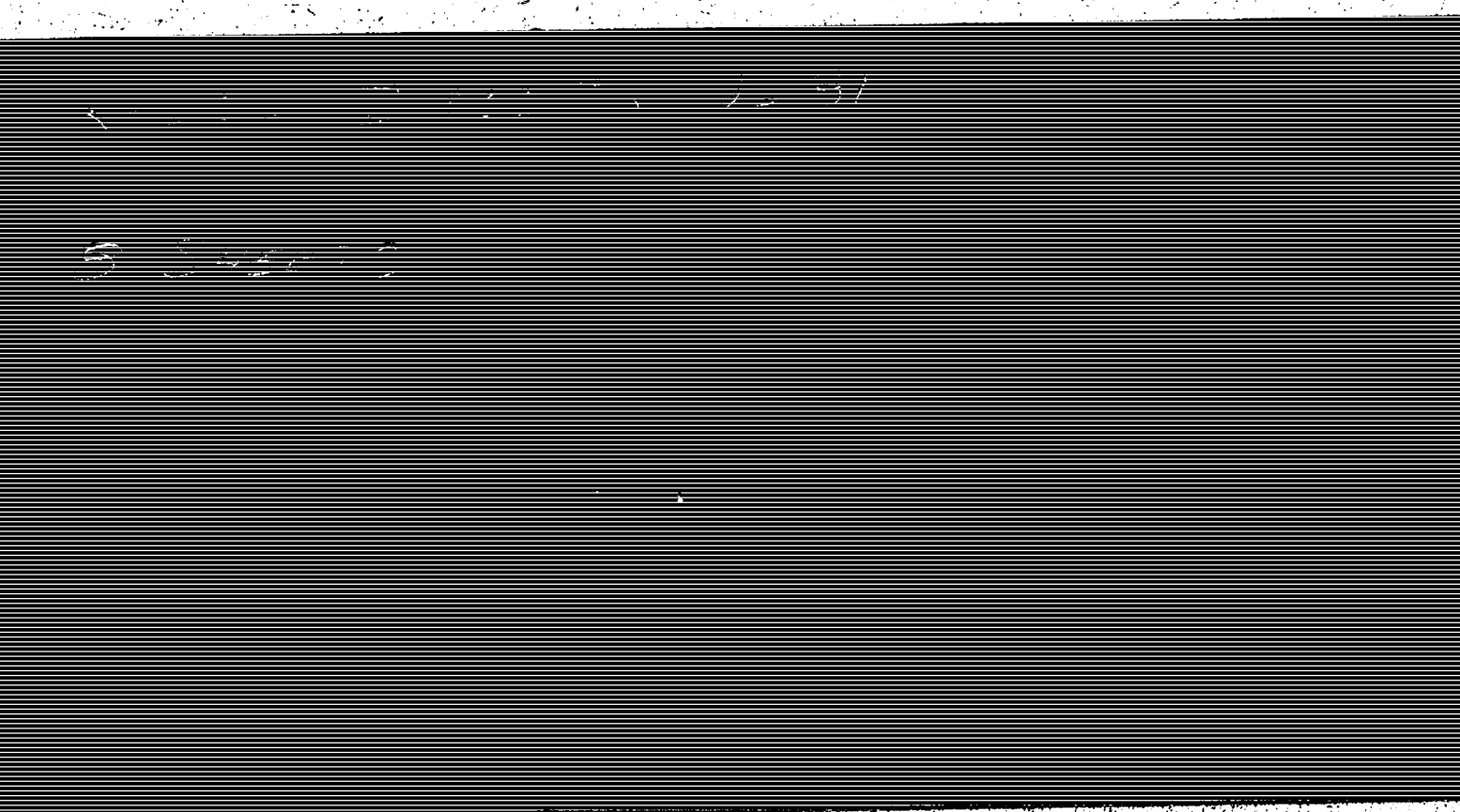
GRADING & PAVING  
SODDING

PLAN AND PROFILE OF PROPOSED  
STATE HIGHWAY

FEDERAL AID PROJECT  
SEDGWICK COUNTY  
K-226

INDEX OF SHEETS

|         |       |                                        |
|---------|-------|----------------------------------------|
| Sh. No. | 1     | Title Sheet                            |
| "       | 2     | Typical Sections                       |
| "       | 3-4   | Plan Profile Sheets                    |
| "       | 5-6   | Interchange Layouts                    |
| "       | 7-8   | Payment Details                        |
| "       | 9-10  | Incidental Structures                  |
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| "       | 12    | Quantity Sheet                         |
| "       | 13    | Seeding Sheet                          |
| "       | 14    | Highway Crossing Protection            |
| "       | 15    | Detail of Crossing Signals             |
| "       | 16    | Timing Diagrams (Sheet No. 25 Deleted) |
| "       | 17    | Traffic Control                        |
| "       | 18    | Construction Identification Signs      |
| "       | 19    | Drainage Areas                         |
| "       | 20-31 | Cross Sections                         |



DESIGN DESIGNATION  
1961 A.D.T. = 6500  
1980 A.D.T. = 15,675  
D.H.V. = 120%  
D = 6%  
T = 35%  
V = 40 mph  
C.R.A. = None

NOTE: TRAFFIC SHALL BE CARRIED  
THROUGH CONSTRUCTION

CONVENTIONAL SIGNS

|                        |                             |
|------------------------|-----------------------------|
| COUNTY LINE            | RETAINING WALL              |
| CORPORATE LIMITS       | BASE OR SURVEY LINE         |
| STATE OR NATIONAL LINE | LEVEE                       |
| TOWNSHIP LINE          | CULVERTS                    |
| SECTION LINE           | DROP INLETS                 |
| GRANT LINE             | ACCESS CONTROL              |
| FENCE LINE             | POWER LINE                  |
| GUARD FENCE            | TELEPHONE OR TELEGRAPH LINE |
| UNFENCED PROPERTY      | MARSH                       |
| RIGHT OF WAY LINE      | HERDGE                      |
| TRAVELLED WAY          | TREES                       |
| RAILROADS              | GRADE ELEVATION             |

GROSS LENGTH OF PROJECT 598.45 FT.  
EXCEPTIONS  
(FOR R.R. STA. 99+44.26 TO 99+52.20 -- 7.94 FT.)

NET LENGTH OF PROJECT 589.84 FT. 0.168 MILES  
NET LENGTH OF BRIDGES 0.00 FT. 0.000 MILES  
NET LENGTH OF ROAD 589.84 FT. 0.168 MILES

RECOM. FOR APPROVAL DATE

ENGINEER OF DESIGN  
STATE HIGHWAY COMMISSION OF KANSAS

APPROVED DATE

STATE HIGHWAY ENGINEER  
STATE HIGHWAY COMMISSION OF KANSAS

RECOM. FOR APPROVAL DATE

ENGINEER  
BUREAU OF PUBLIC ROADS  
DEPARTMENT OF COMMERCE

APPROVED DATE

DIVISION ENGINEER  
BUREAU OF PUBLIC ROADS  
DEPARTMENT OF COMMERCE

PLAN  
 DATE  
 DRAWN BY  
 CHECKED BY  
 NO.

PROFILE  
 DATE  
 DRAWN BY  
 CHECKED BY  
 NO.

GENERAL NOTE

ENCROACHMENTS SUCH AS FENCES, BUILDINGS, TELEPHONE TOWERS, GRAPE AND POWER LINES SHALL BE MOVED BY THE OWNERS.  
 IN THE INTEREST OF PUBLIC SAFETY, ALL GAS, GASOLINE AND OIL LINES SHALL BE MOVED BEYOND THE LIMITS OF THE ROADBED BY THE OWNER. THE USUAL PROVISION FOR THEIR RETENTION HAS BEEN MADE.  
 ALL WATER LINES LESS THAN THREE FEET BELOW THE SURFACE OF THE HIGHWAY SHALL BE MOVED BY THE OWNERS.  
 CAST IRON PIPE SHALL BE REPLACED OR MOVED BY THE OWNERS.  
 ALL OTHER UNDERGROUND UTILITIES SHALL BE PLACED IN GOOD CONDITION AND ADJUSTED TO FIT THE NEW CONSTRUCTION BY THE OWNERS.  
 ALL LINES WITHIN BUREAU OF HIGHWAYS, MANHOLE, ETC., SHALL BE MOVED OR ADJUSTED TO THE NEW CONSTRUCTION BY THE OWNERS UNLESS NOTED OTHERWISE ON THE PLAN.  
 AT THE LOCATION ADJACENT TO THE RIGHT-OF-WAY, UTILITY POLES MAY BE SET AT THE PERMANENT LOCATIONS PRIOR TO CONSTRUCTION AS APPROVED BY THE ENGINEER PROVIDED A MINIMUM VERTICAL CLEARANCE OF 14 FEET IS OBTAINED. THE LOCATION SHALL BE RECORDED TO WORK AROUND THESE POLES TO COMPLETE THE WORK.  
 THE GEOLOGICAL INFORMATION SHOWN ON THESE PLANS IS FROM STUDIES MADE IN THE FIELD AND REPRESENTS THE BEST INFORMATION AVAILABLE TO THE KANSAS HIGHWAY COMMISSION.  
 CHANNELS SHALL BE CUT AT ALL CULVERTS, UNLESS OTHERWISE NOTED, TO FLOW LINE ELEVATION AND TO A WIDTH OF ONE FOOT OUTSIDE OF EACH OUTSIDE WALL AND WITH SLOPES 2 TO 1 PRIOR TO CONSTRUCTION OF THE CULVERT. QUANTITIES INCLUDED IN EXCAVATION TOTALS.  
 ALL TREES TO BE GROUBED ARE MARKED WITH X'S. SPARE ALL TREES NOT MARKED. EXCEPTIONALLY GOOD TREES SHALL BE SPARED BY ADJUSTING THE BACKSLOPE LINES DURING CONSTRUCTION.  
 ALL ADDITIONAL RIGHT-OF-WAY SHALL BE TURNED OVER BY THE STATE, UNLESS OTHERWISE NOTED.  
 If it is necessary to remove any existing surfacing on driveways or side streets beyond the limits of the new work as shown on the plans, an equivalent surfacing shall be replaced by the contractor as a satisfactory item.  
 All borrow to be obtained from areas provided by the contractor shall be approved by the Engineer both as to suitability of material and site location. Locations that in the opinion of the Engineer will leave an unsightly appearance on this project will not be approved.

SCALE  
 PLAN: 1" = 40'  
 PROFILE: Horiz. same as above  
 Vert. 1" = 10'

BM #102 Iron Bar South MacArthur Road  
 141' R/L Sta. 92+75 (235-87-1235-11(4)43 Pt. 1) ELEV. 1276.09

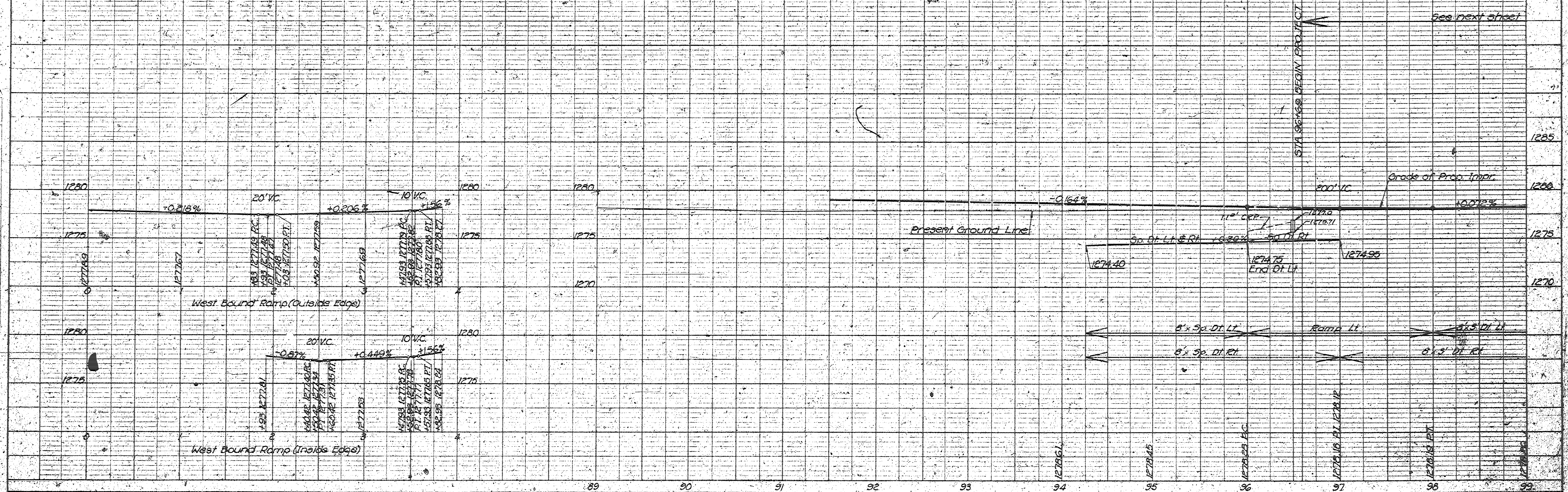
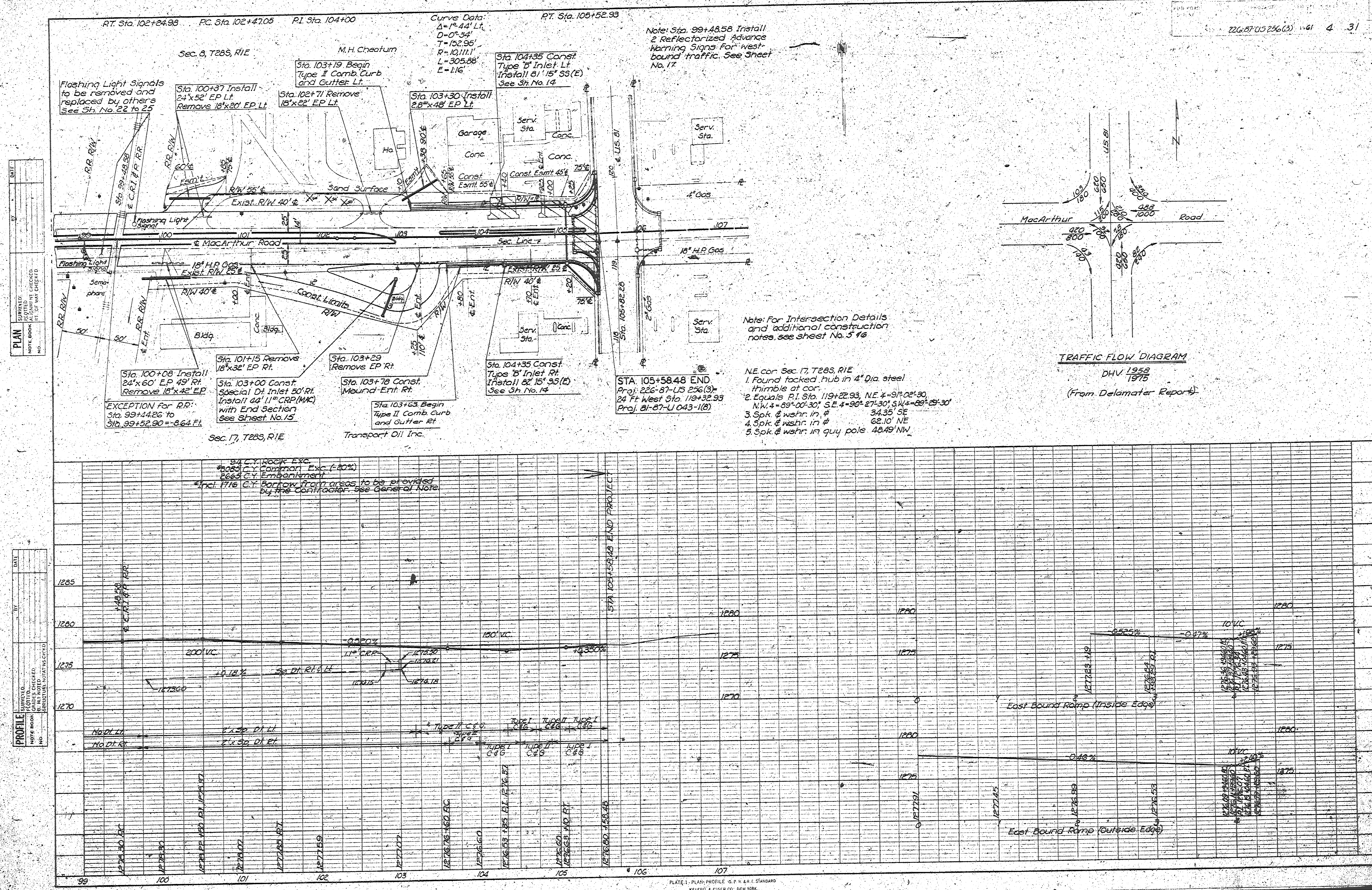


PLATE 3 - PLAN PROFILE, O.P.R. & P. STANDARD  
 PRINTED & BOUND BY THE KANSAS HIGHWAY COMMISSION

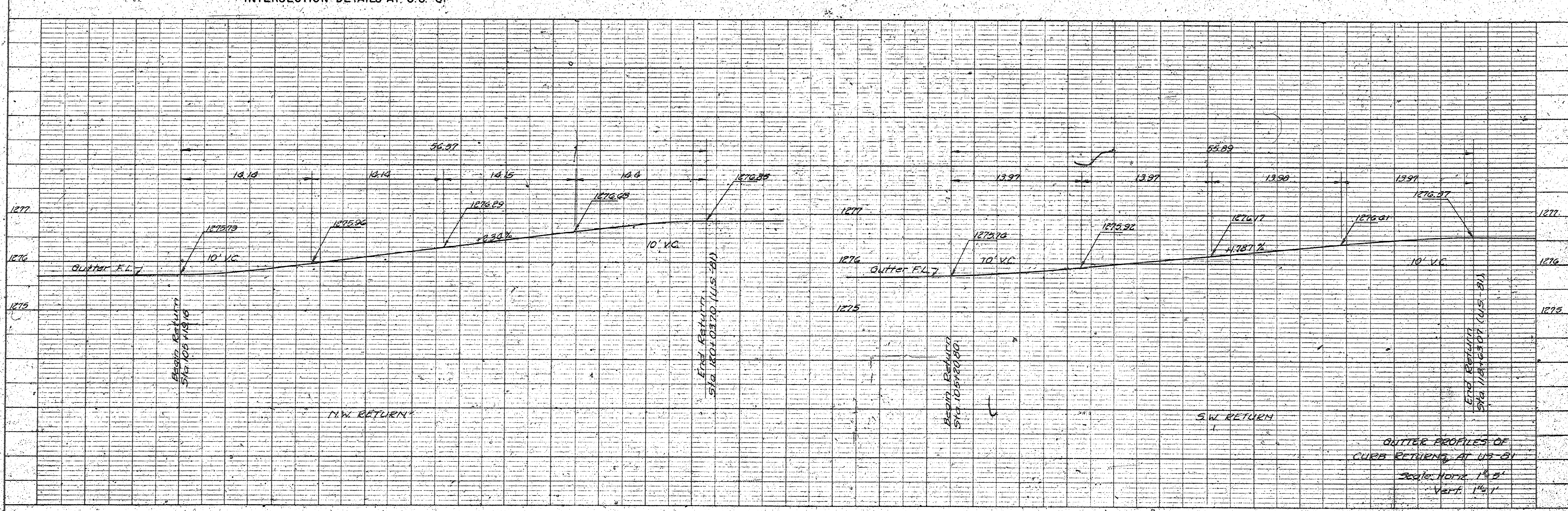
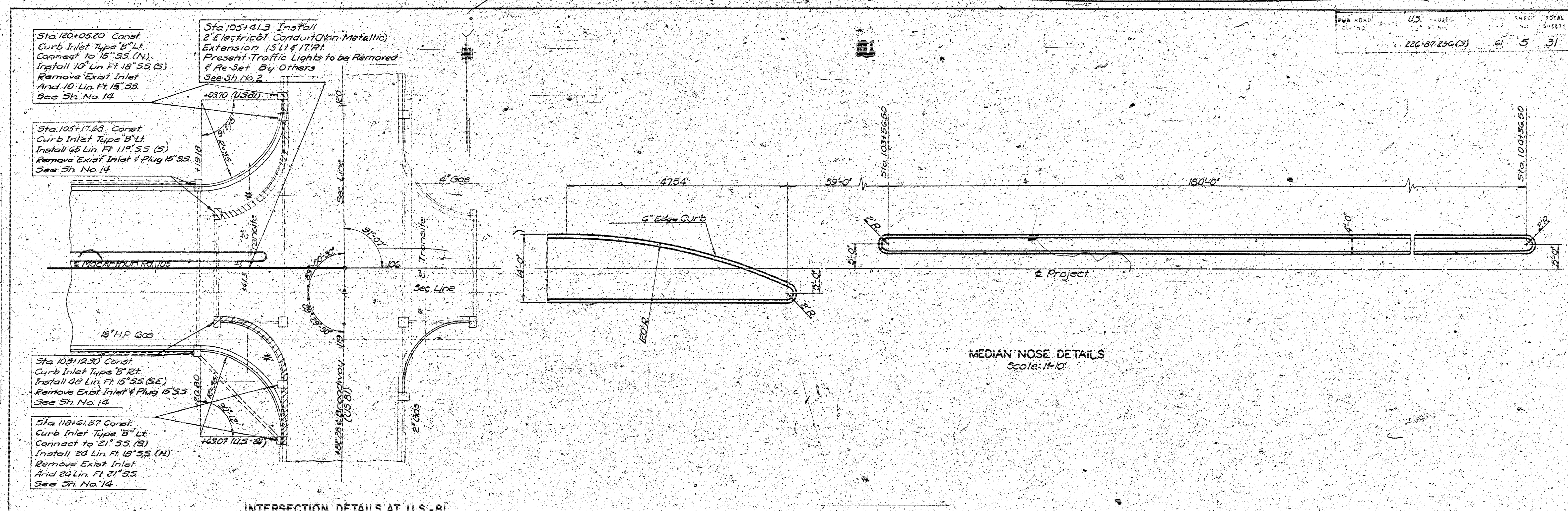
PC Sta. 95+74.98 RI Sta. 99+00  
 Sec. 8, T28S, R1E  
 Dolese Bros. Co.

Sta. 95+90 Begin Right-of-Way  
 Sta. 96+50 Const. Spec. Dr. Inlet 50' Lt. Install 50 Lin. Ft. 1 1/2" CRP (MC) with End Section See Sheet No. 15  
 Sta. 96+60 BEGIN  
 Proj. 226-87-US 256(3)-553.42 Ft. E. Sta. 93+66.28  
 Proj. 235-87-1235-11(4)43  
 Sta. 97+91 Install 24x42" E.P. R/L Remove Exist. E.P.  
 Rock Island Industrial Addition  
 Sec. 17, T28S, R1E  
 Don Schmid Motor Co.  
 Curve Data:  
 1-P-44 R/L  
 D=0'-16'  
 T=325.02'  
 R=21,485.9'  
 L=650.00'  
 E=2.46'



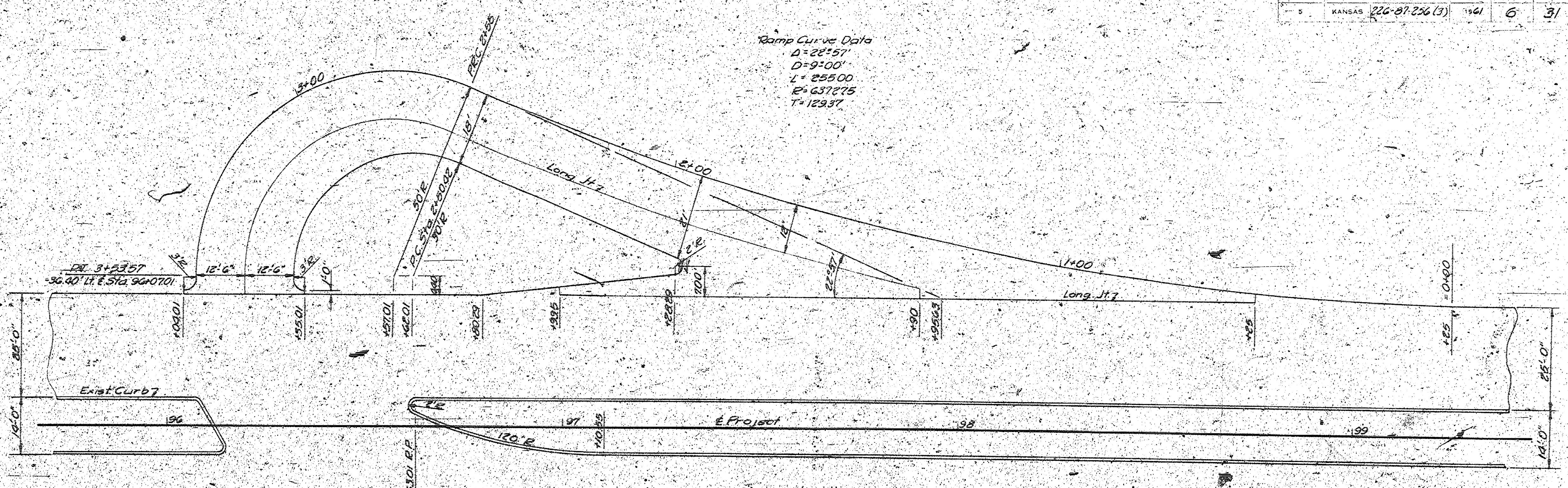
| PLAN    | DATE  | BY    | CHK   |
|---------|-------|-------|-------|
| NO. 1   | 10/27 | 10/27 | 10/27 |
| NO. 2   | 10/27 | 10/27 | 10/27 |
| NO. 3   | 10/27 | 10/27 | 10/27 |
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| NO. 100 | 10/27 | 10/27 | 10/27 |

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| NO. 95  | 10/27 | 10/27 | 10/27 |
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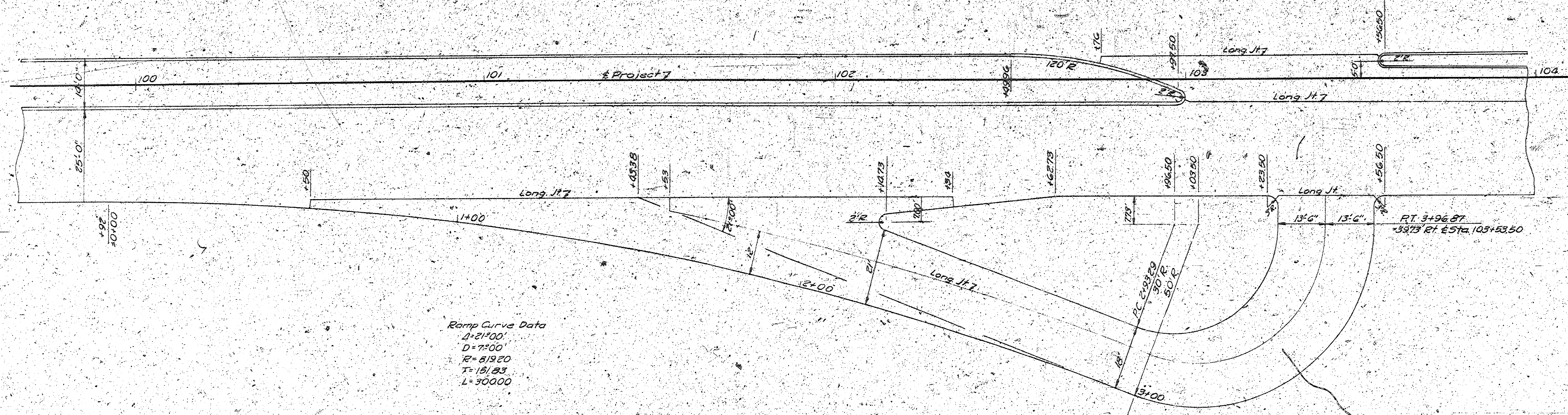


| PUB. ROAD | STATE  | PROJECT        | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|-----------|--------|----------------|-------------|-----------|--------------|
| 2         | KANSAS | 220-87-236 (3) | 1961        | 6         | 31           |

Ramp Curve Data  
 $\Delta = 28^\circ 57'$   
 $D = 9^\circ 00'$   
 $L = 255.00$   
 $E = 6376.75$   
 $T = 123.37$



WEST BOUND LANE



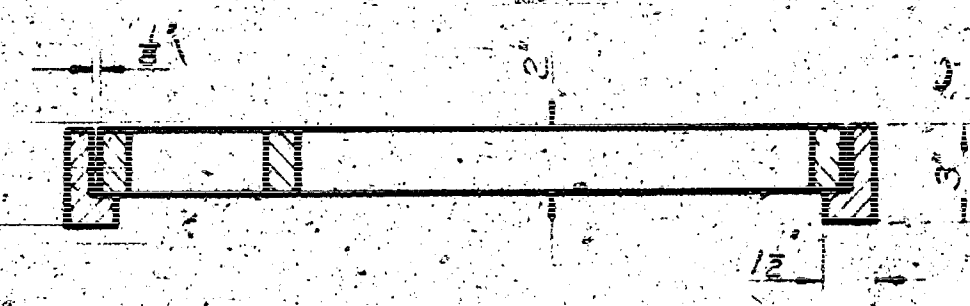
EAST BOUND LANE

Ramp Curve Data  
 $\Delta = 21^\circ 00'$   
 $D = 7^\circ 00'$   
 $R = 819.20$   
 $T = 18.84$   
 $L = 500.00$

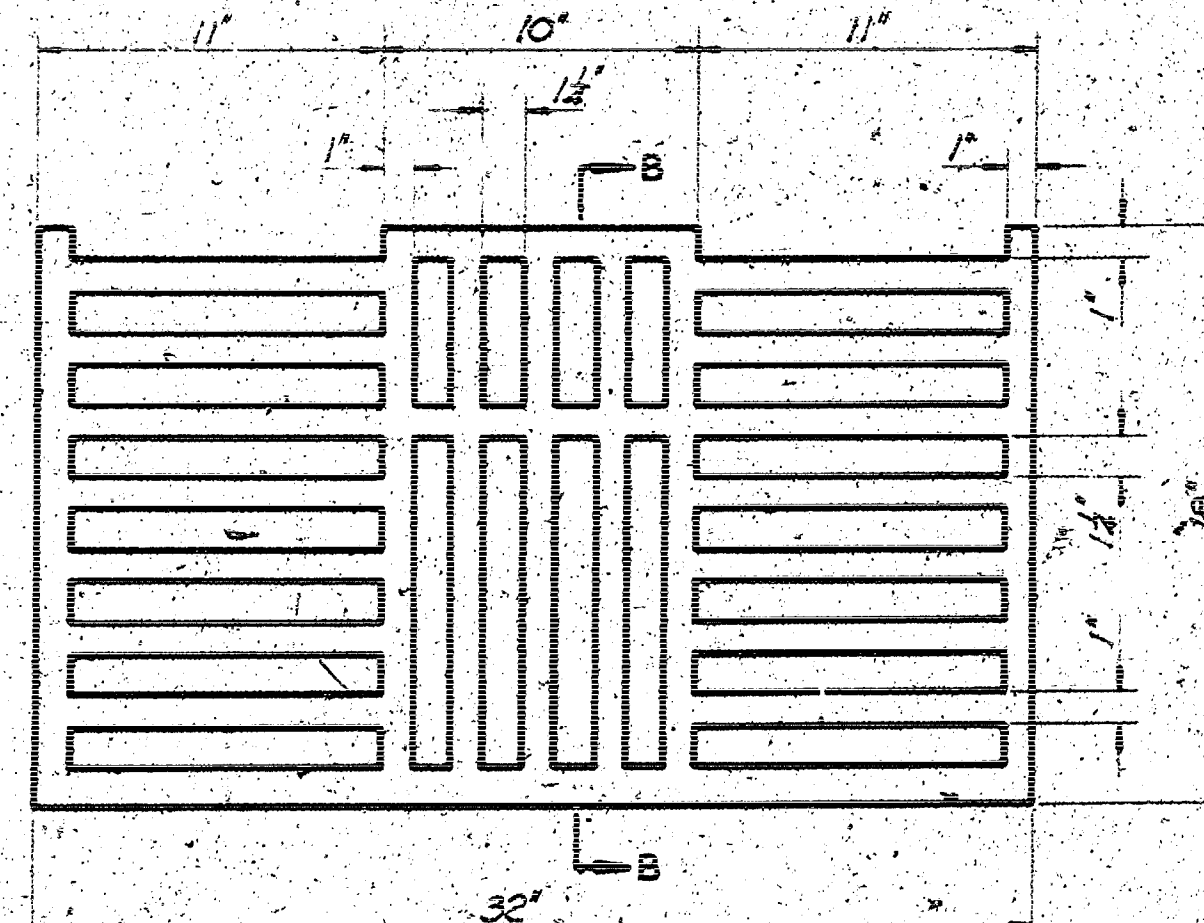
| STATE HIGHWAY COMMISSION OF KANSAS |                |         |          |      |          |
|------------------------------------|----------------|---------|----------|------|----------|
| U-TURN RAMP DETAILS                |                |         |          |      |          |
| PROJECT NO.                        | 220-87-236 (3) | SCALE   | 1" = 15' | DATE | 11/15/61 |
| DESIGNER                           | TRAC           | CHECKED | TRAC     | DATE | 11/15/61 |
| DESIGNER                           | TRAC           | CHECKED | TRAC     | DATE | 11/15/61 |

# DITCH INLET

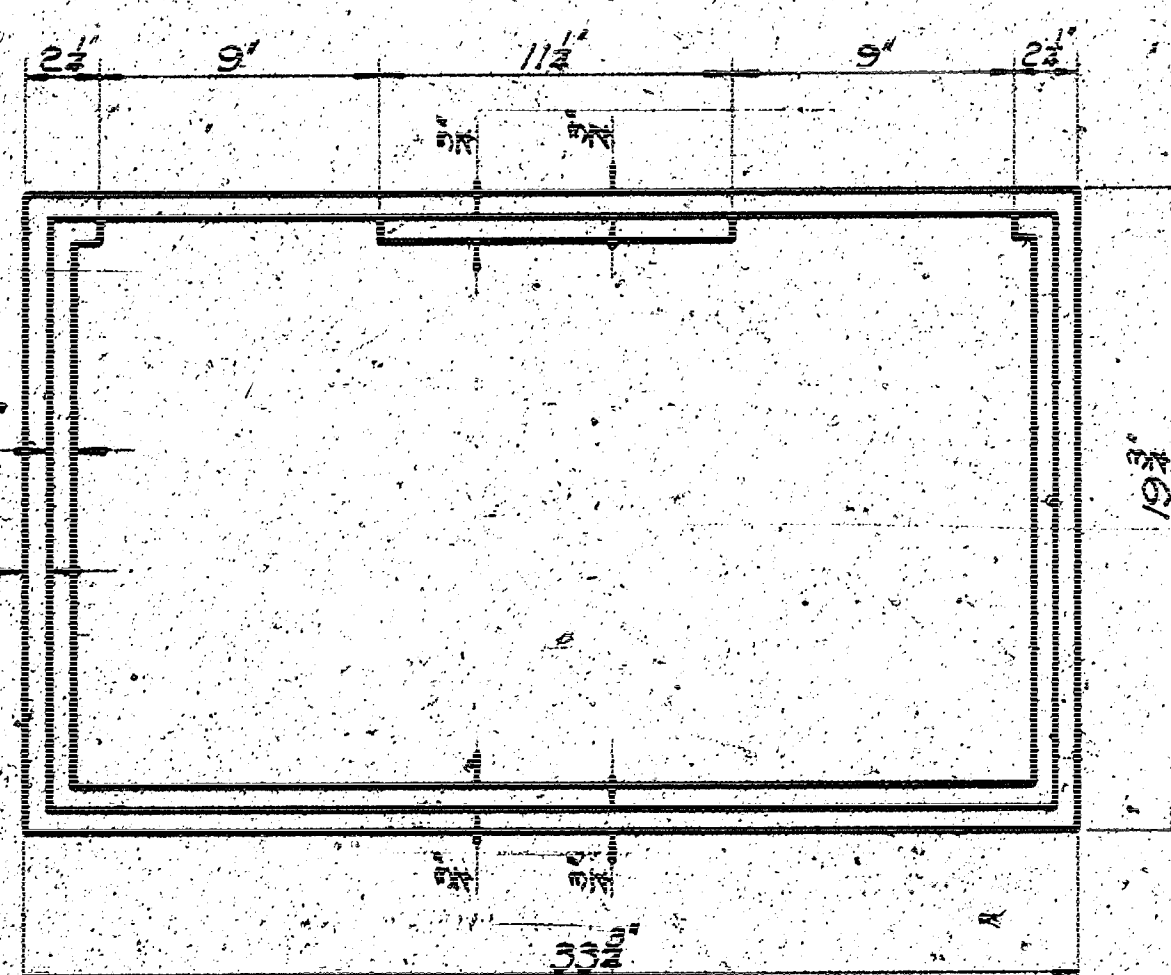
LT STA. 96+50  
RT STA. 103+00



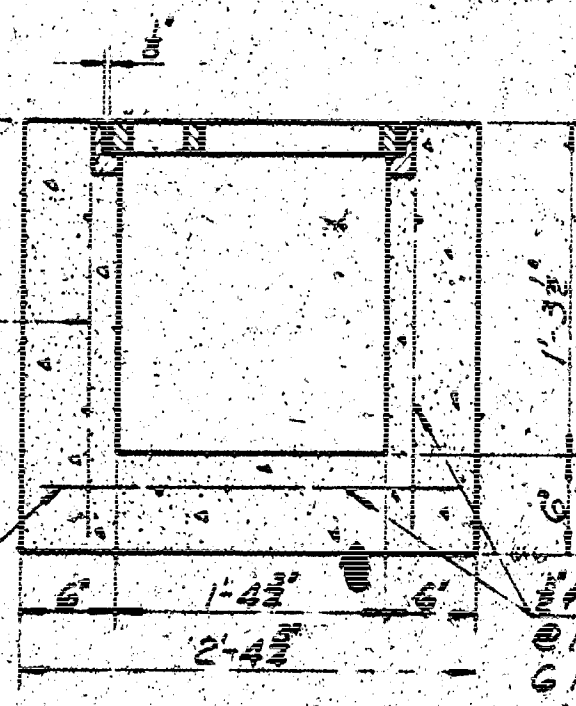
SECTION B-B



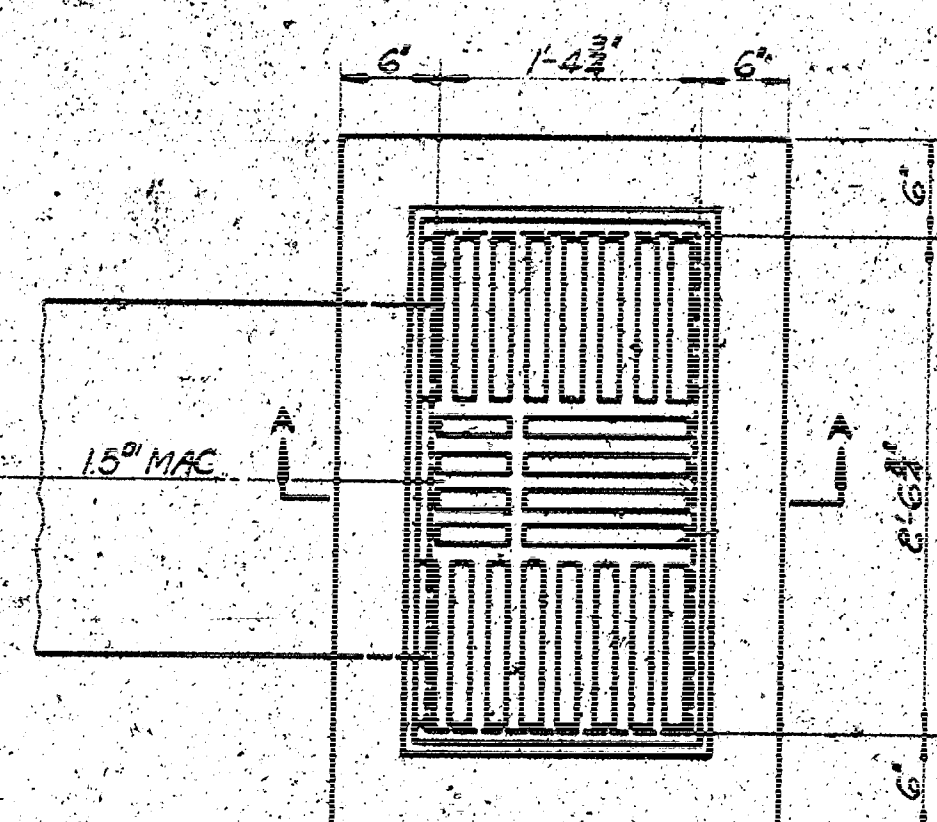
PLAN OF GRATE  
Weight: 170 Lbs.



PLAN OF FRAME  
Weight: 85 Lbs.  
Scale: 2"=1'



SECTION A-A



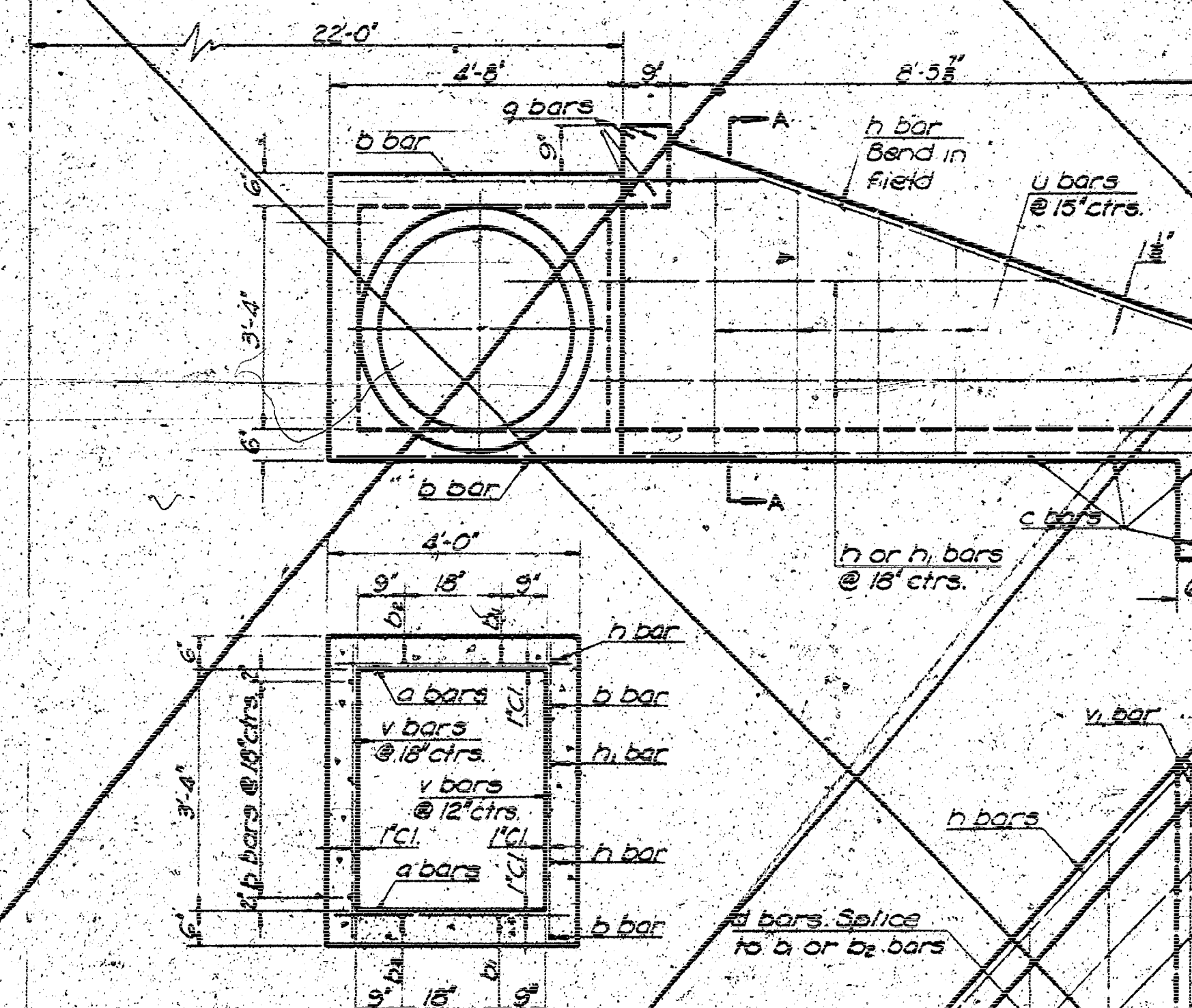
PLAN  
Scale: 1"=1'

| QUANTITIES           |           |
|----------------------|-----------|
| Class "A" Concrete   | 0.6 Cu Yd |
| Reinforcing Steel    | 25 Lbs    |
| Cast Iron            | 255 Lbs   |
| Class "B" Excavation | 2 Cu Yds  |

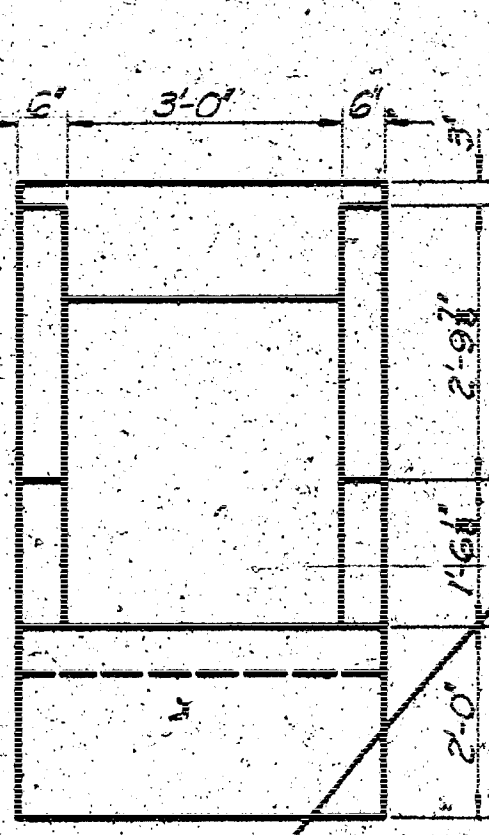
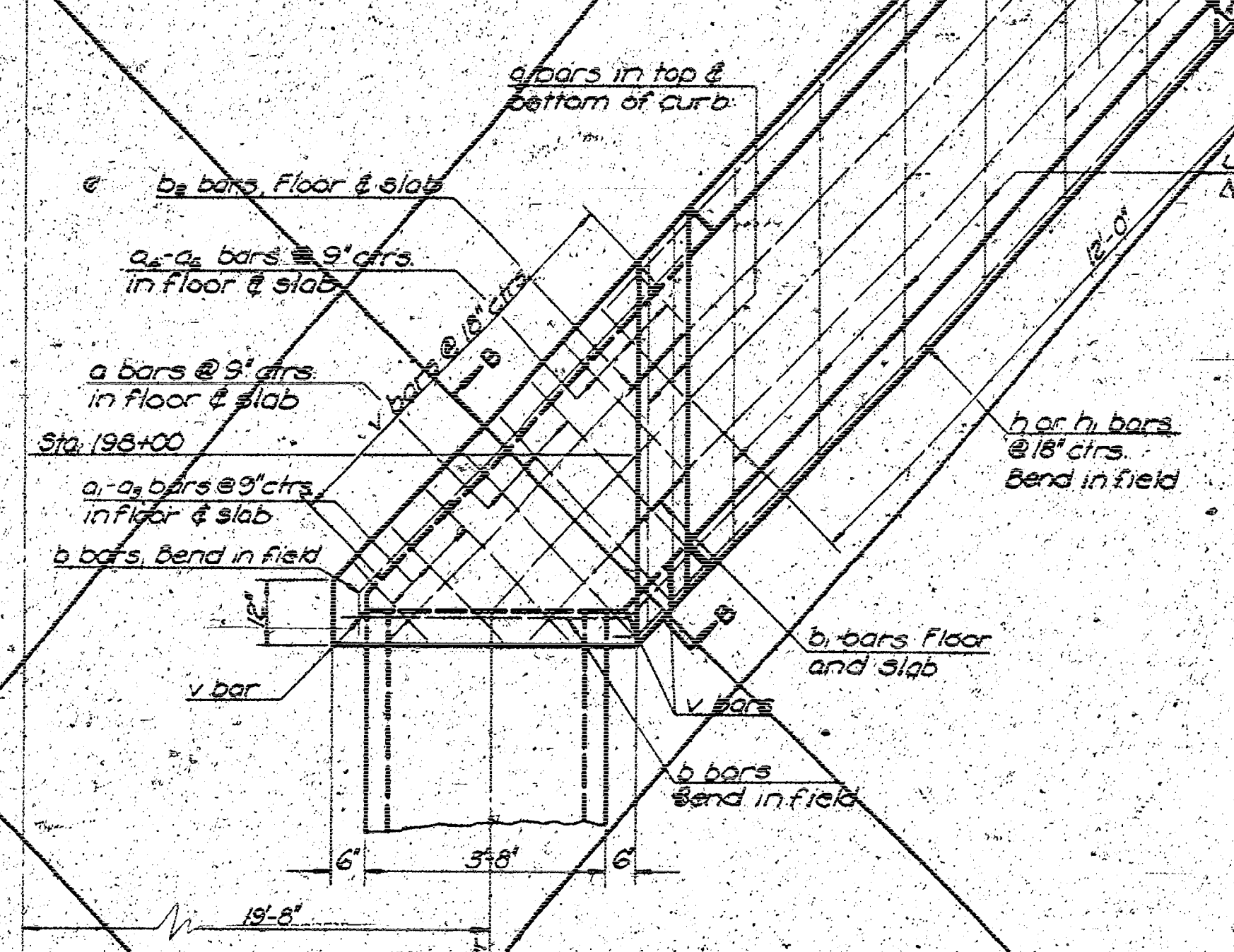
Notes:  
Use Class "A" Concrete thruout.  
All weights of castings are calculated weights with 10% allowed for fillets, overruns, anchor bars and bolts.  
Standard gutter castings for Type 40C catch basin and catch basin manhole used by City of Topeka.

# SPECIAL OUTLET HEADWALL

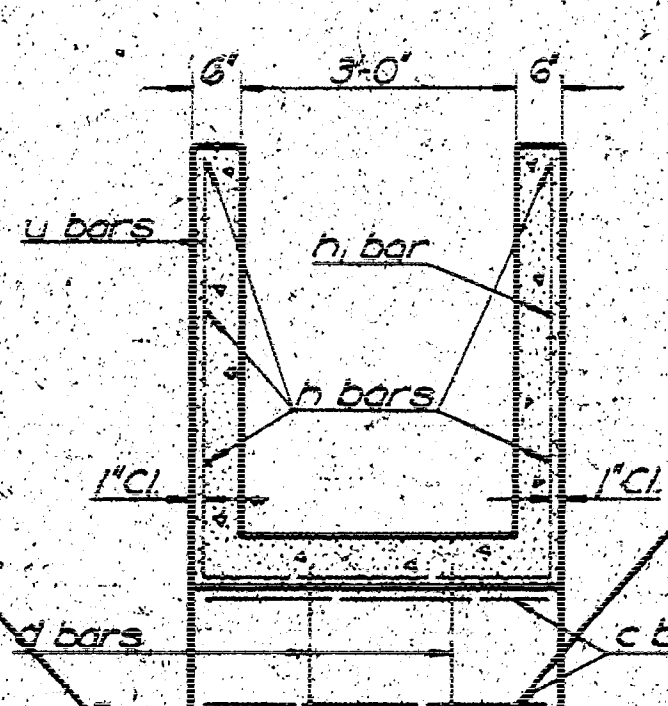
RT STA. 198+00



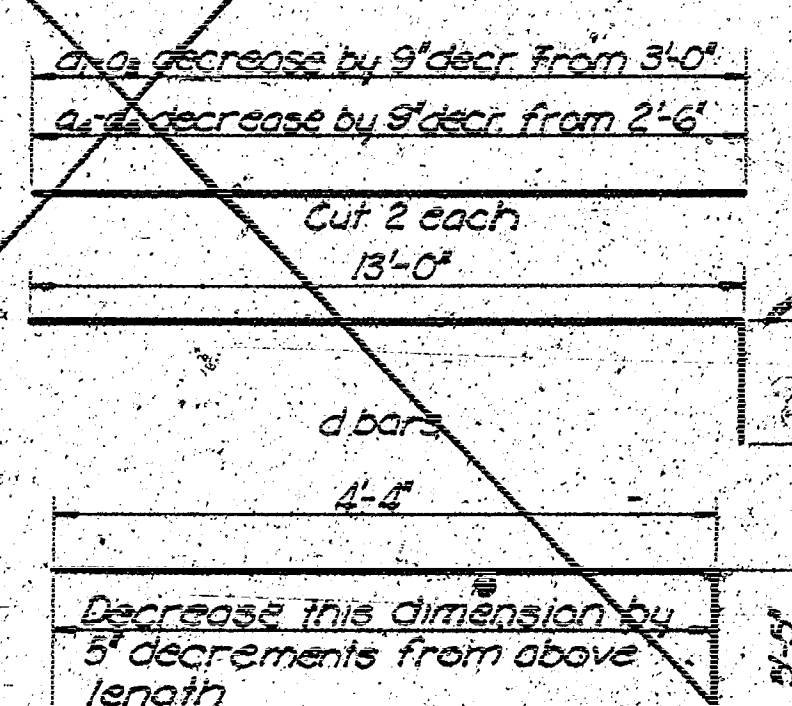
SECTION B-B



END ELEVATION



SECTION A-A



BENDING DIAGRAMS  
All dimensions are cut to cut of bars.  
All bars are No. 4.

Notes: See Sta. No. for General Note.

| BAR LIST |       |
|----------|-------|
| Bar      | a     |
| Number   | 12    |
| Length   | 3'-9" |

| QUANTITIES         |         |
|--------------------|---------|
| Class "A" Concrete | 4.0 CY  |
| Reinf. Steel       | 230 Lbs |
| Class "B" Exc.     | 21 CY   |

STATE HIGHWAY COMMISSION OF KANSAS

**DITCH INLETS**

SHEET NO. 1 OF 1

DESIGNED BY M.K. DRAWN BY M.K. CHECKED BY M.K. APPROVED BY M.K.

