D-8

| FED. ROAD DIST. NO. | T E N N | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|
| 3 | | 1968 | 1 | 5 |
| FED. AID PROJ. NO. | S-8109-(6) | | | |
| STATE PROJ. NO. | 24017-8308-23 | | | |

| FED. ROAD DIST. NO. | T E N N | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|
| 3 | | 1965 | 1 | 65 |
| FED. AID PROJ. NO. | S-8109-(4) | | | |
| STATE PROJ. NO. | 24017-3304-23 | | | |

## INDEX OF SHEETS ~~S-8109-(4)~~


SHEET NO 1 TITLE SHEET
SHEET NO 2-2c TYPICAL CROSS SECTION AND ESTIMATED QUANTITIES.
SHEET NO 3-12 PLAN AND PROFILE (FROM STA. 200+69.60 TO STA. 472+10.83)
SHEET NO 13 BEDDING STANDARD. DW'G. NO. C-B-2.
SHEET NO 14 FERROUS C.M. & STRUCTURAL PLATE PIPE & PIPE ARCHES. DW'G. NO. CM-I-4 (SHEET 1 OF 2)
SHEET NO 15 ALUMINUM-ALLOY CORRUGATED PIPE & PIPE ARCH CULVERTS. DW'G. NO. CM-I-4 (SHEET 2 OF 2)
SHEET NO 16 PIPE AND PIPE-ARCH CULVERT BEVELED ENDS AND RIP RAP. DW'G. NO. CM-I-5
SHEET NO 17 STRUTTING DETAILS FOR C.M. & STRUCTURAL PLATE ROUND PIPE. H-20 LOADING. DW'G. NO. CM-I-7
SHEET NO 18 OVAL & FLAT BASE CONCRETE CULVERT PIPE. DW'G. NO. CO-I-I
SHEET NO 19 STANDARD RAMPS TO SIDE ROADS. DW'G. NO. D-R-2 (SHEET 1 OF 2)
SHEET NO 20 DETAIL OF STANDARD GRADE CROSSING. DW'G. NO. P-C-20
SHEET NO 21-23 STANDARD CONSTRUCTION IDENTIFICATION SIGN. DW'G. NO. RD-S-I (3 SHEETS)
SHEET NO 24 STANDARD CONCRETE RIGHT OF WAY POST. DW'G. NO. RW-M-2A
SHEET NO 25 STANDARD SUPERELEVATION DETAILS. DW'G. NO. S-E-I
SHEET NO 26 DESIGN STANDARDS, 2-LANE HIGHWAYS IN RURAL AREAS. DW'G. NO. ST-R-I
SHEET NO 27-29 STANDARD CONCRETE BOX CULVERTS. DW'G. NO'S. H-5-39, K-15-37, & K-38-56
SHEET NO 30 LAYOUT OF BRIDGES AT STA. 317+82 & 427+65 DWG. NO K-50-17
SHEET NO 31-33 DETAILS OF BRIDGES DWG. NO. H-5-7, 8 & 9.
SHEET NO 34-42 DRAINAGE CROSS SECTIONS
SHEET NO 43-69 CROSS - SECTIONS


## INDEX OF SHEETS S-8109(6)


SHEET NO. 1 TITLE SHEET
SHEET NO. 2 TYPICAL CROSS SECTION AND ESTIMATED QUANTITIES
SHEET NO. 3-5 CONSTRUCTION IDENTIFICATION SIGNS (3 SHEETS), DW.G. NO. RD-S-1.


THE CONTRACTOR WILL BE REQUIRED TO MAINTAIN LOCAL TRAFFIC ~~EXCEPT DURING CONSTRUCTION OF THE BRIDGES. DURING CONSTRUCTION OF THE BRIDGES A DETOUR ROAD WILL BE PROVIDED AND MAINTAINED BY FAYETTE COUNTY.~~

THIS PROJECT TO BE CONSTRUCTED UNDER THE STANDARD SPECIFICATIONS OF THE TENNESSEE DEPARTMENT OF HIGHWAYS DATED JULY 1, 1951, SUPPLEMENT DATED AUGUST 1, 1960, AND ADDITIONAL SPECIFICATIONS AND SPECIAL PROVISIONS CONTAINED IN THE PLANS AND IN THE PROPOSAL CONTRACT.

NO LOCAL HAUL ROAD REQUIRED

NOTE: REGARDING CONSTRUCTION IDENTIFICATION SIGNS. TWO CONSTRUCTION IDENTIFICATION SIGNS SHALL BE ERECTED ON THIS PROJECT AT LOCATIONS DESIGNATED ON THIS SHEET BY THIS SYMBOL (C.I.S.) FOR DETAILS SEE DWG. NO. RD-S-1 (3 SHEETS).

### LEGEND

COUNTY LINE
CITY VILLAGE OR BOROUGH
CULVERTS
POWER POLE
TELEPHONE OR TELEGRAPH POLE
FENCE LINE
GUARD RAIL
UNFENCED PROPERTY
RIGHT OF WAY LINE
TRAVELED WAY
RAILROAD
RETAINING WALL
BASE OR SURVEY LINE
DROP INLET
BRIDGE OVER 20 FT. SPAN
~~LIME ROAD~~

### DESIGN DATA

| | | |
|---|---|---|
| 1968 ~~1965~~ ADT | | ~~150~~ 172 |
| 1968 ~~1985~~ ADT | | ~~190~~ 202 |
| DHV | | ~~24~~ 38 |
| MAX. CURVE | | 14° |
| MAX. GRADE | | 6% - 8% |
| MIN. STOPPING S.D. | | 275' |
| ROADWAY WIDTH | | 28' (32' ON FILLS IN EXCESS OF 10') |
| BASE WIDTH | | 20' (THRU SHOULDERS) |
| BASE THICKNESS | | 8" |
| MIN. R/W | | 60' |
| VELOCITY | | 40 M.P.H. |

# STATE OF TENNESSEE
# DEPARTMENT OF HIGHWAYS

# PLAN AND PROFILE OF PROPOSED STATE HIGHWAY

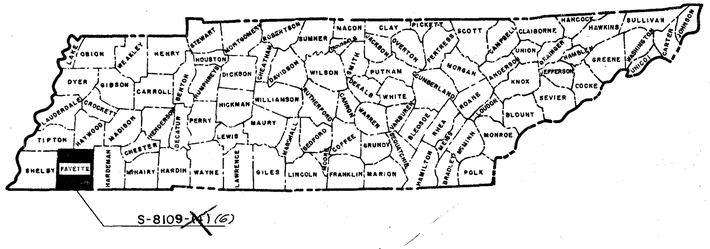
FEDERAL AID PROJECT NO. S-8109-~~(4)~~(6)

# FAYETTE CO.

FROM: MACON RD.
TO: S.R. 15 @ HICKORY WITHE

STATE HIGHWAY NO. 8109 F.A.H.S. NO.

SCALES
PLAN, 1 IN. = 100 FT.
PROFILE, HOR. 1 IN. = 100 FT., VERT. 1 IN. = 10 FT.
TITLE SHEET 1" = 1 MILE

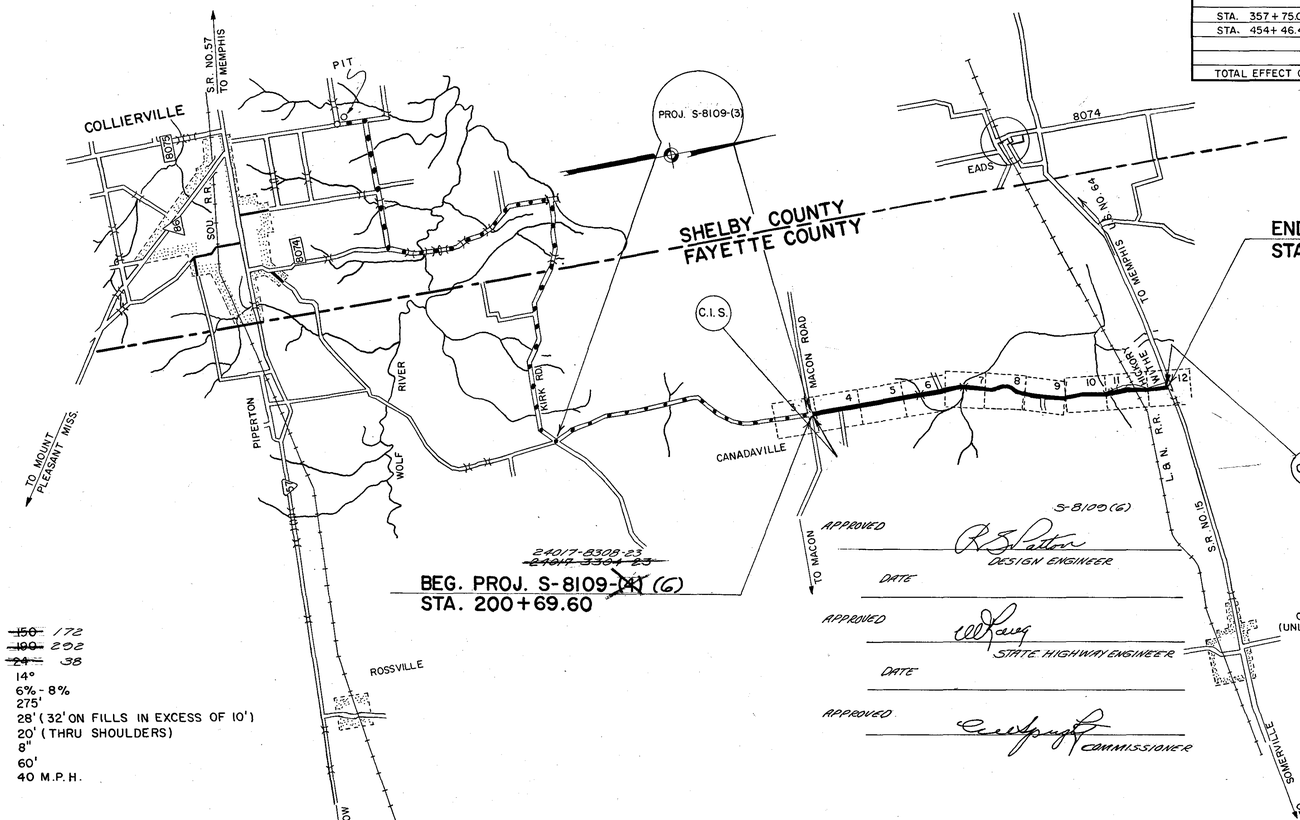



NO EXCEPTIONS
~~NO EXCLUSIONS~~

| TABLE OF EQUATIONS | | |
|---|---|---|
| STATION TO STATION | + | − |
| STA. 357+75.00 L.B. = 357+23.70 L.A. | 51.30 | |
| STA. 454+46.48 L.B. = 454+45.18 L.A. | 1.30 | |
| TOTAL EFFECT ON ENUMERATION | 52.60 | |

| EXCLUSION | | | |
|---|---|---|---|
| STATION | TO STATION | + | − |
| 317+82 | 318+96 | | 1.14 |
| 427+65 | 428+79 | | 1.14 |
| TOTAL | | | − 2.28 |

24017-8308-23
~~24017-3304-23~~




24017-8308-23
~~24017-3304-23~~

BEG. PROJ. S-8109-~~(4)~~(6)
STA. 200+69.60

END PROJ. S-8109-~~(4)~~(6)
STA. 472+10.83

| | | ~~S-8109-(4)~~ | | S-8109(6) |
|---|---|---|---|---|
| ROADWAY | LENGTH | ~~5.107~~ | MILES | 5.107 |
| BRIDGE | LENGTH | ~~0.043~~ | MILES | 0.000 |
| PROJECT | LENGTH | ~~5.150~~ | MILES | 5.107 |
| EXCLUDED | LENGTH | | MILES | 0.043 |
| GROSS | LENGTH | | MILES | 5.150 |

S-8109(6)

APPROVED R. B. Patton
DESIGN ENGINEER
DATE

APPROVED W. Rowe
STATE HIGHWAY ENGINEER
DATE

APPROVED C. W. Speight
COMMISSIONER

~~S-8109-(4)~~

APPROVED R. B. Patton
DESIGN ENGINEER
DATE

APPROVED W. Rowe
STATE HIGHWAY ENGINEER
DATE

APPROVED C. W. Speight
COMMISSIONER

DEPARTMENT OF COMMERCE
BUREAU OF PUBLIC ROADS

APPROVED:

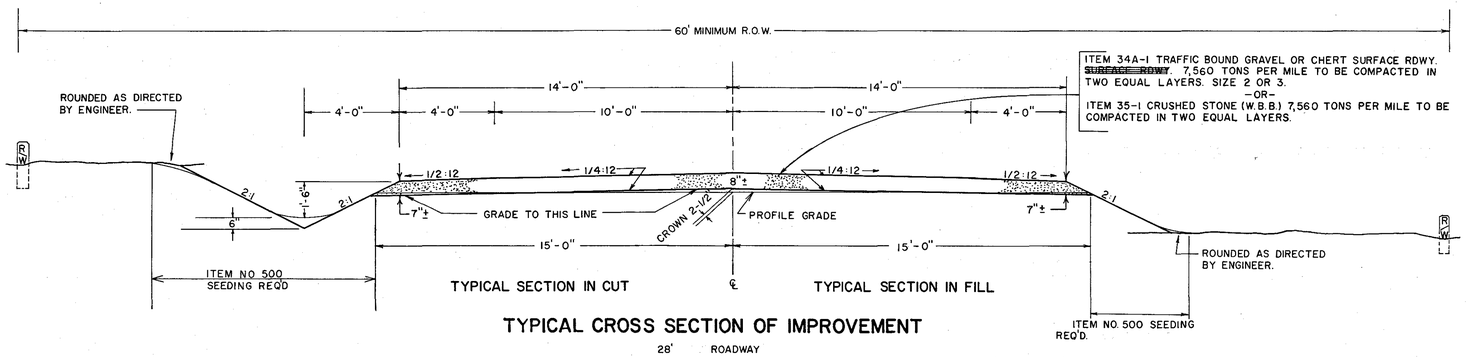
DIVISION ENGINEER DATE

TENN. STATE HIGHWAYS
Plans File
Divn. No.
Perm

SCANNED

DESIGNED: REGION IV J.A.
CHECKED:
SURVEY NO. C.S. 974, P.E. NO. 24017-1302-03

| FED. ROAD DIST. NO. | TENN. | FEDERAL AID PROJECT NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 3 | | S-8109-(4) | 1965 | 2 | 69 |




## TYPICAL CROSS SECTION OF IMPROVEMENT

28' ROADWAY

## GENERAL NOTES

**GRADING** — GRADE ON CROSS SECTIONS SAME AS GRADE ON PROFILE AND AS GRADE ON TYPICAL CROSS - SECTION

**BORROW** — THE CONTRACTOR WILL BE REQUIRED TO LOCATE AND FURNISH SUITABLE BORROW MATERIAL FROM A SITE APPROVED BY THE ENGINEER, ALL COSTS OF SAME TO BE INCLUDED IN THE UNIT PRICE BID FOR ITEM NUMBER 15-3. THE BORROW MATERIAL SHALL BE TAKEN IN A MANNER SO THAT IT MAY BE READILY MEASURED. IF BORROW EXCAVATION IN EXCESS OF QUANTITY SHOWN ON THE PLANS AND/OR IN BALANCES OTHER THAN SHOWN ON PLANS IS REQUIRED, IT SHALL BE FURNISHED BY THE CONTRACTOR AT THE UNIT PRICE BID FOR ITEM NUMBER 15-3.

**DRAINAGE** —
THE COST OF EXCAVATION FOR CONCRETE BOXES, CROSS DRAINS, AND SIDE DRAINS TO BE INCLUDED IN THE UNIT PRICE BID PER LINEAR FOOT OF PIPE AND/OR THE UNIT PRICE BID PER CU. YD. OF CONCRETE.

WHEN A CULVERT IS MOVED TO A NEW LOCATION OTHER THAN SHOWN ON THE PLANS, THEREBY INCREASING OR DECREASING THE AMOUNT OF CULVERT EXCAVATION, NO INCREASE OR DEDUCTION IN PAYMENT WILL BE MADE DUE TO SUCH CHANGE.

ALL NECESSARY CONSTRUCTION JOINTS IN CONCRETE BOX CULVERTS ~~AND BOX BRIDGES~~ SHALL BE THE BUTT TYPE. LOCATION OF JOINTS TO BE DETERMINED BY THE ENGINEER ON CONSTRUCTION.

INLET AND OUTLET DITCHES SHALL BE CLEANED AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER. PAYMENT WILL BE MADE UNDER ITEM NUMBER 13-3. ROAD AND DRAINAGE EXCAV. (UNCLASS)

EASEMENT TO BE SECURED FOR CLEANING INLET AND OUTLET DITCHES OUTSIDE RIGHT-OF-WAY.

ALL CONCRETE PIPE CULVERTS TO MEET AASHO. DESIGNATION M170-57 CLASS III.

**SALVAGEABLE MATERIAL** — ALL SALVAGEABLE MATERIAL TO BECOME THE PROPERTY OF THE COUNTY.

**~~SIGNS~~** —
~~ALL SIGNS SHOWN ON THE SIGN SCHEDULE BY DESIGNATIONS ARE TO BE FABRICATED AS DETAILED UNDER THE DESIGNATIONS IN THE "STATE OF TENNESSEE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES".~~

~~THE LENGTHS OF ALL SIGN SUPPORTS SHOWN ON THE SIGN SCHEDULE ARE APPROXIMATE AND ARE FOR ESTIMATING PURPOSES ONLY. THE LENGTHS WERE COMPUTED FROM THE CROSS SECTIONS CONTAINED IN THE CONSTRUCTION PLANS. THE CONTRACTOR SHALL VERIFY ALL SUPPORT LENGTH AT THE SITE PRIOR TO ERECTION.~~

**UTILITIES** —
COUNTY TO MAKE PROVISIONS FOR THE ADJUSTMENTS OF ALL PUBLIC AND PRIVATE UTILITIES.

UTILITY OWNERS: TRUCKLINE GAS CO., INDEPENDENCE, MISSOURI
SOUTHERN BELL TELEPHONE, MEMPHIS, TENNESSEE
CHICKASAW ELECTRIC CO., SOMERVILLE, TENNESSEE
TENNESSEE VALLEY AUTHORITY,

**SEEDING** — ALL NEWLY GRADED EARTHEN SLOPES ON THE PROJECT SHALL BE SEEDED IN ACCORDANCE WITH THE SPECIAL PROVISION REGARDING SECTION 500, AS DIRECTED BY ENGINEER.

ALL CONCRETE BOX CULVERTS AND BRIDGES ARE DESIGNED FOR H15 LOADING.

COUNTY WILL REMOVE THE EXISTING BRIDGES WHEN AND AS DIRECTED BY THE ENGINEER. ALL SALVAGEABLE MATERIAL TO REMAIN THE PROPERTY OF THE COUNTY.

MINIMUM VERTICAL STOPPING SIGHT DISTANCE 288' P.I. STA. 346+50
MINIMUM HORIZONTAL SIGHT DISTANCE 419' P.I. STA. 353+26.55
MAXIMUM HORIZONTAL CURVE 8° P.I. STA. 360+44.21
MAXIMUM GRADE 6.50% STA 327+50 TO STA. 331+50

## ESTIMATED BRIDGE QUANTITIES

| ITEM NO | DESCRIPTION | BRIDGE NO 1<br>STA. 317+82<br>4@28'-6" C:C<br>PRECAST CONC.<br>SLAB TYPE BR.<br>SKEW 90°<br>LENGTH 114'<br>RDWY.-WIDTH<br>24'-0"<br>LAYOUT DW'G.<br>K-50-17 | BRIDGE NO 2<br>STA. 427+65<br>4@28'-6" C:C<br>PRECAST CONC.<br>SLAB TYPE BR.<br>SKEW 90°<br>LENGTH 114'<br>RDWY.-WIDTH<br>24'-0"<br>LAYOUT DW'G.<br>K-50-17 | TOTAL | UNIT |
|---|---|---|---|---|---|
| 131 - 2 | TREATED TIMBER | 202 | 260 | 462 | M.B.M. |
| 138 - 1 | TIMBER TEST PILING | 40 | 40 | 80 | LIN. FT. |
| 138 - 5 | TREATED TIMBER PILING, SIZE 1 | 1000 | 1000 | 2000 | LIN. FT. |
| 153 - 3 | RAILING | 247 | 247 | 494 | LIN. FT. |
| 153 - 4 | PRECAST CONCRETE SPAN (28'-6" SPAN CURB UNIT) | 8 | 8 | 16 | EACH |
| 153 - 4A | PRECAST CONCRETE SPAN (28'-6" SPAN INTERIOR UNIT) | 20 | 20 | 40 | EACH |

SEE SHEET NO. 2a FOR ROADWAY QUANTITIES

TENN. STATE HIGHWAYS
Plans File H
Dwg. No. 7
OBSOLETE

| FED. ROAD DIST. NO. | STATE | FEDERAL AID PROJECT NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 3 | TENN. | S-8109 (4) | 1965 | 2a | 60 |

TENN. STATE HIGHWAYS
Plans Divn. File No. 7

SEE SHEET 2 FOR ESTIMATED BRIDGE QUANTITIES

## ESTIMATED ROADWAY QUANTITIES

| | ITEM | DESCRIPTION | QUANTITY | UNIT |
|---|---|---|---|---|
| | 11-1 | CLEARING & GRUBBING | 1 | LUMP SUM |
| | 13-3 | ROAD AND DRAINAGE EXCAVATION (UNCLASS) | 47,511 | CU. YD. |
| | | | | |
| (1) | 13-5 | WATER (EMBANKMENT) | 831 | M. GAL. |
| | 13-5a | WATER (SEEDING) | 736 | M. GAL. |
| | | | | |
| | 15-3 | BORROW EXCAVATION (UNCLASS) | 58,738 | CU. YD. |
| | | | | |
| (2) | 30-1 | FIELD LABORATORY, TYPE "A" | 1 | EACH |
| | | | | |
| (3)(4) BASE ALT'S. | 34A-1 | TRAFFIC BOUND GRAVEL OR CHERT SURFACE RDWY. | 40,553 | TON |
| | 35-1 | CRUSHED STONE (W.B.B.) | 40,553 | TON |
| | | | | |
| HAUL ROAD QUANTITIES | 55-1 | BITUMINOUS MATERIAL (H.B.S.C.) | 5 | TON |
| | 55-2 | MINERAL AGGREGATE (H.B.S.C.) | 50 | TON |
| | | | | |
| | 103-1 | MINERAL AGGREGATE (S.A. OR S, A.S.C.) | 134 | TON |
| | 103-1a | MINERAL FILLER (S.A. OR S., A.S.C.) | 6 | TON |
| | 103-2 | ASPHALT CEMENT (S.A. OR S., A.S.C.) | 10 | TON |
| | 103-3 | TACK COAT (S.A. OR S., A.S.C.) | 1 | TON |
| | | | | |
| | 135-4 | CLASS "A" CONCRETE | 109 | CU.YD. |
| | 135-12 | STEEL BAR REINFORCEMENT | 15,446 | LBS. |
| | | | | |
| 15" ALT'S. | 141- | 15" CONCRETE PIPE CULVERT (S.D.) | 760 | LIN. FT. |
| | 144- | 15" FERROUS C.M. PIPE CULVERT (S.D.) | 760 | LIN. FT. |
| | 234- | 15" ALUMINUM ALLOY C.M. PIPE CULVERT (S.D.) | 760 | LIN. FT. |
| | | | | |
| 18" ALT'S. GROUP I | 141- | 18" CONCRETE PIPE CULVERT (S.D.) | 206 | LIN. FT. |
| | 144- | 18" FERROUS C.M. PIPE CULVERT (S.D.) | 206 | LIN. FT. |
| | 234- | 18" ALUMINUM ALLOY C.M. PIPE CULVERT (S.D.) | 206 | LIN. FT. |
| | | | | |
| 18" ALT'S. GROUP II | 141- | 18" CONCRETE PIPE CULVERT | 482 | LIN. FT. |
| | 144- | 18" FERROUS C.M. PIPE CULVERT (BIT. COATED) | 482 | LIN. FT. |
| | 234- | 18" ALUMINUM ALLOY C.M. PIPE CULVERT. (BIT. COATED) | 482 | LIN. FT. |
| | | | | |
| 24" ALT'S. GROUP I | 141- | 24" CONCRETE PIPE CULVERT (S.D.) | 168 | LIN. FT. |
| | 144- | 24" FERROUS C.M. PIPE CULVERT (S.D.) | 168 | LIN. FT. |
| | 234- | 24" ALUMINUM ALLOY C.M. PIPE CULVERT (S.D.) | 168 | LIN. FT. |
| | | | | |
| 24" ALT'S. GROUP II | 141- | 24" CONCRETE PIPE CULVERT | 132 | LIN. FT. |
| | 144- | 24" FERROUS C.M. PIPE CULVERT (BIT. COATED) | 132 | LIN. FT. |
| | 234- | 24" ALUMINUM ALLOY C.M. PIPE CULVERT (BIT. COATED) | 132 | LIN. FT. |
| | | | | |
| 30" ALT'S. GROUP I | 141- | 30" CONCRETE PIPE CULVERT (S.D.) | 40 | LIN. FT. |
| | 144- | 30" FERROUS C.M. PIPE CULVERT (S.D.) | 40 | LIN. FT. |
| | 234- | 30" ALUMINUM ALLOY C.M. PIPE CULVERT (S.D.) | 40 | LIN. FT. |
| | | | | |
| 30" ALT'S. GROUP II | 141- | 30" CONCRETE PIPE CULVERT | 84 | LIN. FT. |
| | 144- | 30" FERROUS C.M. PIPE CULVERT (BIT. COATED) | 84 | LIN. FT. |
| | 234- | 30" ALUMINUM ALLOY C.M. PIPE CULVERT (BIT. COATED) | 84 | LIN. FT. |
| | | | | |
| 36" ALT'S. | 141- | 36" CONCRETE PIPE CULVERT | 56 | LIN. FT. |
| | 144- | 36" FERROUS C.M. PIPE CULVERT (BIT. COATED) | 56 | LIN. FT. |
| | 234- | 36" ALUMINUM ALLOY C.M. PIPE CULVERT (BIT. COATED) | 56 | LIN. FT. |
| | | | | |
| 54" ALT'S. | 141- | 54" CONCRETE PIPE CULVERT | 76 | LIN. FT. |
| | 144- | 54" FERROUS C.M. PIPE CULVERT (BIT. COATED) | 76 | LIN. FT. |
| | 234- | 54" ALUMINUM ALLOY C.M. PIPE CULVERT (BIT. COATED) | 76 | LIN. FT. |

CONTINUED →

← CONTINUED

## ESTIMATED ROADWAY QUANTITIES (CONT.)

| | ITEM | DESCRIPTION | QUANTITY | UNIT |
|---|---|---|---|---|
| 72" ALT'S | 141- | 72" CONCRETE PIPE CULVERT (S.D.) | 60 | LIN. FT. |
| | 144- | 72" FERROUS C.M. PIPE CULVERT (S.D.) | 54 | LIN. FT. |
| | 234- | 72" ALUMINUM ALLOY C.M. PIPE CULVERT (S.D.) | 54 | LIN. FT. |
| | | | | |
| LOW HEAD ALTS. GROUP I | 141- | 30"X19" HORIZ. OVAL CONC. PIPE CULVERT (S.D.) | 32 | LIN. FT. |
| | 147- | 29"X18" FERROUS C.M. PIPE-ARCH CULVERT (S.D.) | 32 | LIN. FT. |
| | 234- | 29"X18" ALUMINUM ALLOY C.M. PIPE-ARCH CULVERT (S.D.) | 32 | LIN. FT. |
| | | | | |
| LOW HEAD ALTS. GROUP II | 141- | 30"X19" HORIZ. OVAL CONC. PIPE CULVERT | 42 | LIN. FT. |
| | 147- | 29"X18" FERROUS C.M. PIPE-ARCH CULVERT (BIT. COATED) | 42 | LIN. FT. |
| | 234- | 29"X18" ALUMINUM ALLOY C.M. PIPE-ARCH CULVERT (BIT. COATED) | 42 | LIN. FT. |
| | | | | |
| LOW HEAD ALT'S. | 141- | 34"X22" HORIZ. OVAL CONC. PIPE CULVERT | 50 | LIN. FT. |
| | 147- | 36"X22" FERROUS C.M. PIPE-ARCH CULVERT (BIT. COATED) | 50 | LIN. FT. |
| | 234- | 36"X22" ALUMINUM ALLOY C.M. PIPE-ARCH CULVERT (BIT. COATED) | 50 | LIN. FT. |
| | | | | |
| LOW HEAD ALT'S. | 141- | 42"X27" HORIZ. OVAL CONC. PIPE CULVERT | 146 | LIN. FT. |
| | 147- | 43"X27" FERROUS C.M. PIPE-ARCH CULVERT (BIT. COATED) | 146 | LIN. FT. |
| | 234- | 43"X27" ALUMINUM ALLOY C.M. PIPE-ARCH CULVERT (BIT. COATED) | 146 | LIN. FT. |
| | | | | |
| LOW HEAD ALT'S. | 141- | 49"X32" HORIZ. OVAL CONC. PIPE CULVERT | 46 | LIN. FT. |
| | 147- | 50"X31" FERROUS C.M. PIPE-ARCH CULVERT (BIT. COATED) | 46 | LIN. FT. |
| | 234- | 50"X31" ALUMINUM ALLOY C.M. PIPE-ARCH CULVERT (BIT. COATED) | 46 | LIN. FT. |
| | | | | |
| LOW HEAD ALT'S. | 141- | 68"X43" HORIZ. OVAL CONC. PIPE CULVERT | 56 | LIN. FT. |
| | 147- | 65"X40" FERROUS C.M. PIPE-ARCH CULVERT (BIT. COATED) | 52 | LIN. FT. |
| | | | | |
| (5) | 141-18 | GRANULAR BACKFILLING MATERIAL | 348 | CU. YD. |
| | | | | |
| | 174-2 | MARKERS (RIGHT-OF-WAY POST) | 139 | EACH |
| | | | | |
| (6) | 176- | SACKED SAND-CEMENT RIP-RAP | 47 | CU.YD. |
| | | | | |
| SEE SPECIAL PROVISION | 301-1 | FLAT SHEET ALUMINUM SIGNS (0.064" THICK) | 1 | SQ. FT. |
| | 301-1a | FLAT SHEET ALUMINUM SIGNS (0.080" THICK) | 162 | SQ. FT. |
| | 301-1b | FLAT SHEET ALUMINUM SIGNS (0.100" THICK) | 33 | SQ. FT. |
| | 301-1c | FLAT SHEET ALUMINUM SIGNS (0.125" THICK) | 18 | SQ. FT. |
| SUPPORT ALT'S. | 301-2 | "U" SECTION STEEL POST (2.0#/LIN. FT.) | 95 | LIN. FT. |
| | 301-2a | "U" SECTION STEEL POST (2.5#/LIN. FT.) | 327 | LIN. FT. |
| | 301-2b | "U" SECTION STEEL POST (3.0#/LIN. FT.) | 24 | LIN. FT. |
| | 301-3 | TIMBER POST (4"X4" RED CEDAR) | 446 | LIN. FT. |
| | 301-4 | TIMBER POST (6"X6" TREATED SOUTHERN YELLOW PINE) | 33 | LIN. FT. |
| | | | | |
| | 500- | SEEDING (WITH MULCH) | 736 | UNIT |

SEE SHEET NO. 2 FOR BRIDGE QUANTITIES

(1) INCLUDES 404 M-GAL. FOR ITEM NO. 34A-1 OR 35-1 AND 7 M-GAL. FOR ITEM NO. 141-18.
(2) SEE SPECIAL PROVISION. QUANTITY MAY BE INCREASED OR ELIMINATED AS DIRECTED BY THE ENGINEER.
(3) INCLUDES 1771 TONS FOR COUNTY ROAD RAMPS AND PRIVATE DRIVES, AND 100 TONS FOR HAUL ROAD REPAIR, AND 73 TONS FOR INTERSECTIONS.
(4) SEE SPECIAL PROVISION FOR ITEM NO. 103. HAUL ROAD QUANTITIES MAY BE INCREASED OR DECREASED AS DIRECTED BY ENGINEER.
(5) INCLUDES ALL GRANULAR BACKFILLING MATERIAL. QUANTITY COMPUTED FOR CONCRETE PIPE.
(6) INCLUDES 25 CU.YDS. FOR DITCH CHECKS.
(7) 1 UNIT = 1,000 SQ. FT.

TENN. STATE HIGHWAYS
Plans Divn. File No. H 7
SCANNED

| FED. ROAD DIST. NO. | TENN. | FEDERAL AID PROJECT NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 3 | | S-8109 (4) | 1965 | 2 b | 60 |

## RAMPS AND SIDE DRAINS

D-R-2

| | STATION | LOCATION LT. | LOCATION RT. | WIDTH | SIZE & LENGTH 15" | 18" | 24" | 30" | 72" | 30"X19" 29"X18" | FERROUS C.M. PIPE GAGE # | ALUMINUM C.M. PIPE GAGE # | CONCRETE PIPE CLASS # | RIP-RAP | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 208+50 | | ✓ | 14' | | 36' | | | | | 16 | 16 | III | | FIELD RD. |
| | 219+30 | ✓ | | 14' | 28' | | | | | | 16 | 16 | III | | FIELD RD. |
| | 221+87 | | ✓ | 14' | | 36' | | | | | 16 | 16 | III | | FIELD RD. |
| | 223+75 | | ✓ | 28' | | | 80' | | | | 16 | 16 | III | | CO. RD. |
| | 227+85 | ✓ | | 14' | 28' | | | | | | 16 | 16 | III | | FIELD RD. |
| | 244+58 | ✓ | | 14' | 34' | | | | | | 16 | 16 | III | | FIELD RD. |
| | 244+82 | | ✓ | 14' | 36' | | | | | | 16 | 16 | III | | FIELD RD. |
| | 248+80 | ✓ | | 14' | 28' | | | | | | 16 | 16 | III | | DRIVE |
| | 260+62 | ✓ | | 14' | | | USE EXIST. S.D. | | | | | | | | DRIVE |
| | 265+50 | ✓ | | 14' | | | | | | | | | | | FIELD RD. |
| | 267+40 | ✓ | | 14' | 34' | | | | | | 16 | 16 | III | | DRIVE |
| | 269+05 | ✓ | | 14' | 40' | | | | | | 16 | 16 | III | | DRIVE |
| | 269+05 | | ✓ | 14' | 34' | | | | | | 16 | 16 | III | | FIELD RD. |
| | 272+00 | ✓ | | 14' | 36' | | | | | | 16 | 16 | III | | FIELD RD. |
| | 275+00 | ✓ | | 14' | 28' | | | | | | 16 | 16 | III | | FIELD RD. |
| | 277+55 | ✓ | | 14' | 28' | | | | | | 16 | 16 | III | | DRIVE |
| | 279+39 | | ✓ | 14' | | 28' | | | | | 16 | 16 | III | | DRIVE |
| | 280+30 | | ✓ | 14' | | 28' | | | | | 16 | 16 | III | | DRIVE |
| (2) | 281+47 | | ✓ | 14' | | | | | | 32' | 14 | 14 | III | | DRIVE |
| | 286+50 | | ✓ | 14' | | | USE EXIST. S.D. | | | | | | | | FIELD RD. |
| | 287+10 | ✓ | | 14' | 36' | | | | | | 16 | 16 | III | | DRIVE |
| | 290+19 | | ✓ | 14' | | | | | | | | | | | DRIVE |
| | 292+95 | ✓ | | 14' | | | | | | | | | | | DRIVE |
| | 297+84 | ✓ | | 28' | 68' | | | | | | 16 | 16 | III | | CO. RD. |
| | 298+13 | | ✓ | 16' | | | | | | | | | | | DRIVE |
| | 300+65 | | ✓ | 14' | | | | | | | | | | | DRIVE |
| | 306+44 | | ✓ | 14' | | | | | | | | | | | DRIVE |
| | 323+60 | | ✓ | 14' | | 40' | | | | | 16 | 16 | III | | FIELD RD. |
| | 324+25 | | ✓ | 14' | | 38' | | | | | 16 | 16 | III | | FIELD RD. |
| | 324+95 | ✓ | | 14' | | | | | | | | | | | FIELD RD. |
| | 333+50 | ✓ | | 14' | 28' | | | | | | 16 | 16 | III | | DRIVE |
| | 343+50 | ✓ | | 14' | | | | | | | | | | | CHURCH DR. |
| | 345+26 | | ✓ | 14' | 28' | | | | | | 16 | 16 | III | | DRIVE |
| | 346+12 | ✓ | | 14' | | | | | | | | | | | CHURCH DR. |
| | 364+07 | ✓ | | 14' | | | | | | | | | | | DRIVE |
| | 369+17 | ✓ | | 14' | | | | | | | | | | | DRIVE |
| (1) | 377+35 | | ✓ | 28' | | | | | 60' | | 10 | 10 | III | 9.0 | CO. RD. |
| | 381+64 | | ✓ | 14' | | | | | | | | | | | DRIVE |
| | 385+87 | | ✓ | 14' | | | | | | | | | | | DRIVE |
| | 396+69 | ✓ | | 14' | | | | | | | | | | | DRIVE |
| | 410+00 | | ✓ | 16' | | | SEE CONCRETE BOX CULVERTS | | | | | | | | DRIVE |
| | 410+34 | ✓ | | 14' | | | | 40' | | | 14 | 14 | III | | DRIVE |
| | 417+16 | | ✓ | 16' | | | SEE CONCRETE BOX CULVERTS | | | | | | | | DRIVE |
| | 436+50 | | ✓ | 14' | | | 44' | | | | 16 | 16 | III | | FIELD RD. |
| | 438+00 | | ✓ | 14' | | | 44' | | | | 16 | 16 | III | | FIELD RD. |
| | 440+10 | ✓ | | 14' | 36' | | | | | | 16 | 16 | III | | FIELD RD. |
| | 442+00 | ✓ | | 14' | 40' | | | | | | 16 | 16 | III | | DRIVE |
| | 443+90 | ✓ | | 14' | 46' | | | | | | 16 | 16 | III | | FIELD RD. |
| | 443+90 | | ✓ | 14' | 36' | | | | | | 16 | 16 | III | | FIELD RD. |
| | 445+60 | ✓ | | 14' | | | | | | | | | | | FIELD RD. |
| | 446+47 | | ✓ | 14' | 28' | | | | | | 16 | 16 | III | | DRIVE |
| | 451+66 | ✓ | | 14' | 28' | | | | | | 16 | 16 | III | | DRIVE |
| | 452+20 | | ✓ | 16' | 32' | | | | | | 16 | 16 | III | | DRIVE |
| | TOTAL | | | | 760' | 206' | 168' | 40' | 60' | 32' | | | | 9.0 | |

(1) 54' OF C.M. PIPE (BEV. ENDS & RIP-RAP.) – *ALUM. ALLOY TO BE 5% VERTICALLY ELONGATED & FIELD TIMBER STRUTTED.*

(2) ALTS. 29"X18" C.M. PIPE-ARCH OR 30"X19" HOR. OVAL. CONC. PIPE.

## PIPE CULVERT CROSS-DRAIN TABULATION

| | STATION | DRAIN AREA ACRES | SKEW | GRAN. BK. FILL CU.YD. | RIP-RAP CU. YD. | DWG. NO. | FERROUS CORR. METAL PIPE ✳ GAGES & LENGTH #16 | #14 | #12 | #10 | ALUMINUM ALLOY C.M. PIPE ✳ GAGES & LENGTH #16 | #14 | #12 | #10 | CONCRETE PIPE CLASS & LENGTH III | | | TOTAL LENG. OF STRUCT. C.M. | CONC. | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 18" PIPE CULVERT ALTS. | 265+62 | REL | 90° | 8 | | | 40' | | | | 40' | | | | 40' | | | 40' | 40' | |
| | 300+05 | 3 | 90° | 9 | | | 44' | | | | 44' | | | | 44' | | | 44' | 44' | |
| | 305+84 | 1 | 90° | 9 | | | 44' | | | | 44' | | | | 44' | | | 44' | 44' | |
| | 341+50 | REL. | 90° | 17 | | | 82' | | | | 82' | | | | 82' | | | 82' | 82' | |
| | 361+22 | 2 | 90° | 11 | | | 52' | | | | 52' | | | | 52' | | | 52' | 52' | |
| | 363+75 | REL. | 75°RT. | 11 | | | 52' | | | | 52' | | | | 52' | | | 52' | 52' | |
| | 445+16 | 2 | 45°RT. | 11 | | | 52' | | | | 52' | | | | 52' | | | 52' | 52' | |
| | 454+71 | 2 | 90° | 10 | | | 46' | | | | 46' | | | | 46' | | | 46' | 46' | |
| | 468+59 | 1 | 90° | 15 | | | 70' | | | | 70' | | | | 70' | | | 70' | 70' | |
| | TOTAL | | | 101 | | | 482' | | | | 482' | | | | 482' | | | 482' | 482' | |
| 24" PIPE CULVERT ALTS | 294+12 | RELIEF | 90° | 20 | | | 74' | | | | 74' | | | | 74' | | | 74' | 74' | |
| | 357+00 | 7 | 90° | 15 | | | 58' | | | | 58' | | | | 58' | | | 58' | 58' | |
| | TOTAL | | | 35 | | | 132' | | | | 132' | | | | 132' | | | 132' | 132' | |
| 30" PIPE CULVERT ALT'S | 368+24 | RELIEF | 45°RT. | 27 | | | | 84' | | | | 84' | | | 84' | | | 84' | 84' | |
| | TOTAL | | | 27 | | | | 84' | | | | 84' | | | 84' | | | 84' | 84' | |
| 36" PIPE CULVERT ALTS | 464+59 | 18 | 90° | 21 | | | | 56' | | | | 56' | | | 56' | | | 56' | 56' | |
| | TOTAL | | | 21 | | | | 56' | | | | 56' | | | 56' | | | 56' | 56' | |
| 54" PIPE CULVERT ALT'S | 291+19 | 69 | 60°RT. | 44 | 7 | CM-I-5 | | | 76' | | | | ①76' | | 76' | | | 76' | 76' | SK. ENDS |
| | TOTAL | | | 44 | 7 | | | | 76' | | | | 76' | | 76' | | | 76' | 76' | |
| 29"X18" PIPE-ARCH OR 30"X19" HOR. OVAL | 273+73 | RELIEF | 90° | 11 | | | | 42' | | | | 42' | | | 42' | | | 42' | 42' | |
| | TOTAL | | | 11 | | | | 42' | | | | 42' | | | 42' | | | 42' | 42' | |
| 36"X22" PIPE-ARCH OR 34"X22" HOR. OVAL | 396+00 | RELIEF | 60°RT. | 14 | | | | 50' | | | | 50' | | | 50' | | | 50' | 50' | |
| | TOTAL | | | 14 | | | | 50' | | | | 50' | | | 50' | | | 50' | 50' | |
| 43"X27" PIPE-ARCH OR 42"X27" HOR. OVAL | 204+00 | 18 | 90° | 16 | | | | | 46' | | | | 46' | | 46' | | | 46' | 46' | |
| | 224+02 | 26 | 90° | 16 | | | | | 50' | | | | 50' | | 50' | | | 50' | 50' | |
| | 375+92 | 24 | 60°RT. | 17 | | | | | 50' | | | | 50' | | 50' | | | 50' | 50' | |
| | TOTAL | | | 49 | | | | | 146' | | | | 146' | | 146' | | | 146' | 146' | |
| 50"X31" PIPE-ARCH OR 49"X32" HOR. OVAL | 260+02 | 37 | 90° | 19 | | | | | 46' | | | | 46' | | 46' | | | 46' | 46' | |
| | TOTAL | | | 19 | | | | | 46' | | | | 46' | | 46' | | | 46' | 46' | |
| 65"X40" PIPE-ARCH OR 68"X43" HOR. OVAL | 232+23 | 71 | 90° | 27 | 5.8 | CM-I-5 | | | 52' | | | | | | 56' | | | 52' | 56' | BEV. ENDS |
| | TOTAL | | | 27 | 5.8 | | | | 52' | | | | | | 56' | | | 52' | 56' | |

GRANULAR BACKFILLING QUANTITIES FOR PIPE BEDDING IS QUANTITY REQUIRED FOR CONCRETE PIPE WHERE CONCRETE ALTERNATES ARE SHOWN FOR CORRECT QUANTITY SEE DWG. NO. C-B-2. DWG. NO. CM-I-4 (2 SHEETS) GIVES STANDARD FOR METAL PIPE. SEE DWG. NO. CM-I-7- FOR FIELD TIMBER STRUTTED. & 5% VERTICALLY ELONGATED PIPE.

① 5% VERTICALLY ELONGATED AND FIELD TIMBER STRUTTED

✳ BITUMINOUS COATED.

## CONCRETE BOX CULVERTS

| STATION | SPAN | HG'TH. | LENGTH | DRAIN AREA ACRES | SKEW | CL."A" CONC. CU.YD. | STEEL BAR REINF. LB. | DRAWING NUMBER | REMARKS |
|---|---|---|---|---|---|---|---|---|---|
| 283+52 | 6' | 6' | 52'-6" | 214 | 60°RT. | 43.0 | 6382 | H-5-39 | |
| RT. 410+00 | 10' | 5' | 20'-0" | 305 | 90° | 30.0 | 4005 | K-15-37 | S.D. |
| RT. 417+16 | 8' | 6' | 31'-6" | 319 | 90° | 36.0 | 5059 | K-38-56 | S.D. |
| | | | | | | | | | |
| TOTAL | | | | | | 109.0 | 15446 | | |

## R.O.W. MARKERS

| TYPE | NO. REQ'D. |
|---|---|
| "A" | 42 |
| "B" | 41 |
| "C" | 56 |
| | |
| TOTAL | 139 |

## GRADING QUANTITIES

| STATION | TO STATION | EXCAVATION CU. YD. UNCLASS. | BORROW | CH. CH. | REMARKS |
|---|---|---|---|---|---|
| 200+696 | 244+00 | 15,615 | | | |
| 244+00 | 298+00 | 9,532 | 11,037 | | |
| 298+00 | 317+82 | 3,049 | 2,080 | | |
| 318+96 | 352+00 | 11,257 | | | |
| 352+00 | 379+00 | 3,396 | 12,384 | | |
| 379+00 | 427+65 | 763 | 15,126 | | |
| 428+79 | 452+00 | 1,854 | 8,447 | | |
| 452+00 | 472+1083 | 2,045 | 9,664 | | |
| | | | | | |
| | | | | | |
| | TOTAL | 47,511 | 58,738 | | |

TENN. STATE HIGHWAYS
Plans Divn. | File No. 4 | H

SUPPORT ALT.

| FED ROAD DIST. NO. | TENN | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|
| 3 | | 1965 | 2-C | 60 |
| FED. AID PROJ. NO. | | S-8109 (4) | | |
| STATE PROJ. NO. | | | | |

# REGULATORY & WARNING SIGN SCHEDULE

| SIGN NO. | SIGN DESIGNATION | LOCATION | SIZE LENGTH | SIZE HEIGHT | SIGN FACE COPY | SIGN FACE BACKGROUND | SIGN FACE MATERIAL SHEET ALUM. | SUPPORT LENGTH & TYPE RED CEDAR 4" X 4" | SUPPORT LENGTH & TYPE STEEL U-SHAPED | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|
| 36 | * D13-1 | 471+00 LT. | 6" | 24" | BLACK | WHITE (REF) | 0.064" | h=10'-6" | h=10'6", 2.0#/FT. | S-8109 (4) |
| 1 | R1-1 | 200+75* LT. | 30" | 30" | WHITE (REF) | RED (REF) | 0.080" | h=11'-6" | h=11'-6", 2.5#/FT. | |
| 4 | | 224+00 RT. | | | | | | h=11'-6" | h=11'-6", 2.5#/FT. | |
| 7 | | 297+65 LT. | | | | | | h=11'-6" | h=11'-6", 2.5#/FT. | |
| 20 | | 377+60 RT. | | | | | | h=11'-6" | h=11'-6", 2.5#/FT. | |
| 37 | | 471+75 RT. | | | | | | h=11'-6" | h=11'-6", 2.5#/FT. | |
| 9 | W1-2R | 316+50 RT. | 30" | 30" | BLACK | YELLOW (REF) | 0.080" | h=12'-6" | h=12'-6", 2.5#/FT. | |
| 17 | | 351+00 LT. | | | | | | h=12'-6" | h=12'-6", 2.5#/FT. | |
| 33 | | 461+00 LT. | | | | | | h=12'-6" | h=12'-6", 2.5#/FT. | |
| 14 | W1-2L | 331+00 RT. | 30" | 30" | BLACK | YELLOW (REF) | 0.080" | h=12'-6" | h=12'-6", 2.5#/FT. | |
| 15 | | 336+50 LT. | | | | | | h=12'-6" | h=12'-6", 2.5#/FT. | |
| 29 | | 443+50 RT. | | | | | | h=12'-6" | h=12'-6", 2.5#/FT. | |
| 16 | W1-4R | 342+50 RT. | 30" | 30 | BLACK | YELLOW (REF) | 0.080" | h=12'-6" | h=12'-6", 2.5#/FT. | |
| 19 | | 370+00 LT. | | | | | | h=12'-6" | h=12'-6", 2.5#/FT. | |
| 22 | | 401+00 RT. | | | | | | h=12'-6" | h=12'-6", 2.5#/FT. | |
| 23 | | 426+00 LT. | | | | | | h=12'-6" | h=12'-6", 2.5#/FT. | |
| 38 | W1-7 | 472+40 | 48" | 24" | BLACK | YELLOW (REF) | 0.100" | h=10'-6"<br>h=10'-6" | h=10'-6", 2.5#/FT.<br>h=10'-6", 2.5#/FT. | |
| 3 | W2-2R | 217+00 RT. | 30" | 30" | BLACK | YELLOW (REF) | 0.080" | h=12'-6" | h=12'-6", 2.5#/FT. | |
| 8 | | 304+50 LT. | | | | | | h=12'-6" | h=12'-6", 2.5#/FT. | |
| 18 | | 370+00 RT. | | | | | | h=12'-6" | h=12'-6", 2.5#/FT. | |
| 5 | W2-2L | 230+50 LT. | 30" | 30" | BLACK | YELLOW (REF) | 0.080" | h=12'-6" | h=12'-6", 2.5#/FT. | |
| 6 | | 291+00 RT. | | | | | | h=12'-6" | h=12'-6", 2.5#/FT. | |
| 21 | | 384+00 LT. | | | | | | h=12'-6" | h=12'-6", 2.5#/FT. | |
| 2 | W3-1 | 207+50 LT. | 30" | 30" | BLACK | YELLOW (REF) | 0.080" | h=12'-6" | h=12'-6", 2.5#/FT. | |
| 34 | | 465+00 RT. | | | | | | h=12'-6" | h=12'-6", 2.5#/FT. | |
| 10 | W5-4R | 317+82 | 12" | 36" | BLACK | WHITE (REF) | 0.080" | h=10'-6" | h=10'-6", 2.0#/FT. | |
| 13 | | 318+96 | | | | | | h=10'-6" | h=10'-6", 2.0#/FT. | |
| 24 | | 427+65 | | | | | | h=10'-6" | h=10'-6", 2.0#/FT. | |
| 27 | | 428+79 | | | | | | h=10'-6" | h=10'-6", 2.0#/FT. | |
| 11 | W5-4L | 317+82 | 12" | 36" | BLACK | WHITE (REF) | 0.080" | h=10'-6" | h=10'-6", 2.0#/FT. | |
| 12 | | 318+96 | | | | | | h=10'-6" | h=10'-6", 2.0#/FT. | |
| 25 | | 427+65 | | | | | | h=10'-6" | h=10'-6", 2.0#/FT. | |
| 26 | | 428+79 | | | | | | h=10'-6" | h=10'-6", 2.0#/FT. | |
| 28 | W10-1 | 437+50 RT. | 36" DIA. | | BLACK | YELLOW (REF) | 0.100" | h=12'-0" | h=12'-0", 3.0#/FT. | |
| 32 | | 451+00 LT. | | | | | | h=12'-0" | h=12'-0", 3.0#/FT. | |

* VERTICAL SPACING TO BE THE SAME AS SHOWN IN TENN. MANUAL "D13-1" EXCEPT TOP & BOTTOM DIMENSIONS TO BE REDUCED TO 2¼" TO ACCOMMODATE THE EXTRA NUMERAL.

# GUIDE SIGN SCHEDULE

| SIGN NO. | SIGN DESIGNATION AND LEGEND | LOCATION | SIZE LENGTH | SIZE HEIGHT | SIZE RADIUS | SIZE BORDER WIDTH | CAPITAL & SERIES | SIGN FACE COPY | SIGN FACE BACKGROUND | SIGN FACE MATERIAL SHEET ALUM. | SUPPORT LENGTH & TYPE RED CEDAR 4"X 4" | SUPPORT LENGTH & TYPE STEEL U-SHAPED | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 35 | D1-2<br>← MEMPHIS<br>SOMERVILLE → | 471+00 RT. | 5'-6" | 2'-0" | 3" | 5/8" | 6"C | WHITE (REF) | GREEN (REF) | 0.100" | h1-11' 0"<br>h2=12' 6" | h1-11' 0" 2.5#/FT.<br>h2-12'6" 2.5#/FT. | |
| 30 | W10-2<br>RAIL ROAD CROSSING | 444+75 RT. | 6'-0" | 9" | | | 5-1/2"D | BLACK | WHITE (REF) | 0.125" | * | * | |
| 31 | | 445+00 LT. | | | | | | | | | | | |

* SIGNS NO. 30, AND 31 TO BE MOUNTED ON 6" X 6" TREATED YELLOW PINE (ITEM 301-4) LENGTH TO BE 16'-3"
SEE SPECIAL PROVISION.

# GENERAL NOTES

ALL SIGNS SHOWN ON THE SIGN SCHEDULE BY DESIGNATIONS ARE TO BE FABRICATED AS DETAILED UNDER THE SAME DESIGNATIONS IN THE "STATE OF TENNESSEE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES."

THE LENGTH OF ALL SIGN SUPPORTS SHOWN ON THE SIGN SCHEDULE ARE APPROXIMATE AND ARE FOR ESTIMATING PURPOSES ONLY. THE LENGTHS WERE COMPUTED FROM THE CROSS-SECTIONS CONTAINED IN THE CONSTRUCTION PLANS. THE CONTRACTOR SHALL VERIFY ALL SUPPORT LENGTHS AT THE SITE PRIOR TO ERECTION.

~~CENTER LINE STRIPING, EDGE STRIPING & OTHER PAVEMENT MARKINGS ARE TO BE PERFORMED BY THE STATE MAINTENANCE DEPARTMENT.~~

~~EXISTING HIGHWAY SIGNS THAT ARE IN GOOD CONDITION AND THAT MEET THE REQUIREMENTS OF THE "STATE OF TENNESSEE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" WILL BE DESIGNATED BY THE ENGINEER TO REMAIN IN PLACE. SUCH SIGNS SHALL BE PROTECTED FROM DAMAGE BY THE CONTRACTOR DURING CONSTRUCTION. IF SUCH SIGNS AND/OR SUPPORTS ARE DAMAGED BY THE CONTRACTOR, THEY SHALL BE REPLACED AT HIS EXPENSE. ALL EXISTING SIGNS AND/OR SUPPORTS THAT ARE NOT TO REMAIN IN PLACE AND THAT ARE SALVAGEABLE SHALL BE STOCKPILED BY THE CONTRACTOR AT A POINT ON THE PROJECT DESIGNATED BY THE ENGINEER. THE SALVAGEABLE MATERIALS WILL BECOME THE PROPERTY OF THE GOVERNMENTAL AGENCY THAT ERECTED THE SIGNS. COST OF REMOVAL AND STOCKPILING OF EXISTING SIGNS THAT ARE TO BE REMOVED IS TO BE INCLUDED IN THE UNIT PRICE BID FOR ITEMS 301-.**

TENN. STATE HIGHWAYS
Plans Divn. File No. 2-1-11
SCANNED

| FED. ROAD DIST. NO. | TENN. | FEDERAL AID PROJECT NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 3 | | S-8100(6) | 1968 | 2 | 5 |

## NOTES

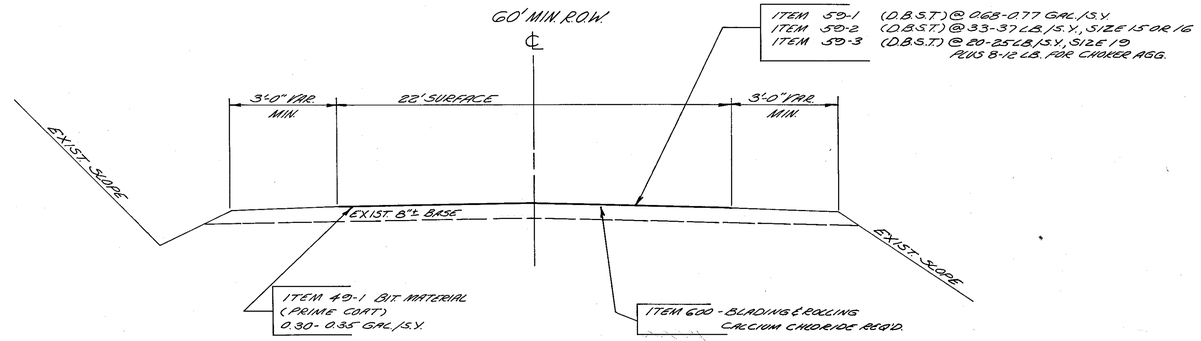
SHOULDERS SHALL BE BLADED TO ELEVATION OF FINISHED SURFACE. COST TO BE INCLUDED IN UNIT PRICES BID FOR OTHER ITEMS.

EXISTING SIDE DRAINS AND CROSS DRAINS SHALL BE CLEANED AND STRAIGHTENED AS DIRECTED BY THE ENGINEER. COST TO BE INCLUDED IN THE UNIT PRICE BID FOR OTHER ITEMS.

IF EXISTING HIGHWAY SIGNS ARE DAMAGED DURING THE COURSE OF CONSTRUCTION, THE CONTRACTOR WILL BE REQUIRED TO REPAIR THE DAMAGE AT HIS OWN EXPENSE

THE CONTRACTOR WILL BE REQUIRED TO REMOVE AND RESET MAIL BOXES AND POSTS WHERE REQUIRED. COST TO BE INCLUDED IN PRICES BID FOR OTHER ITEMS OF CONSTRUCTION.

ALL PUBLIC SIDE ROADS ARE TO BE SURFACED TO THE RIGHT-OF-WAY LINE & PRIVATE DRIVES TO THE BACK OF THE DITCH (EST. 600 SQ. YDS.)




TYPICAL CROSS-SECTION OF IMPROVEMENT

## ESTIMATED ROADWAY QUANTITIES

| | ITEM NO. | DESCRIPTION | QUANTITY | UNIT |
|---|---|---|---|---|
| | 13-5 | WATER (EMBANKMENT, ETC.) | 200 | M-GAL. |
| (1) | 35-1X | CALCIUM CHLORIDE, TYPE 1 OR 2 | 660 | BAG |
| ALTERNATES | 40-1 | BITUMINOUS MATERIAL (PRIME COAT) TAR | 110 | TON |
| | 40-1 | BITUMINOUS MATERIAL (PRIME COAT) CUTBACK ASPHALT | 110 | TON |
| | 40-1 | BITUMINOUS MATERIAL (PRIME COAT) EMULSIFIED ASPHALT | 110 | TON |
| | 50-1 | BITUMINOUS MATERIAL (D.B.S.T.) | 217 | TON |
| | 50-2 | MINERAL AGGREGATE FOR MAT (D.B.S.T.) | 1,230 | TON |
| (2) | 50-3 | MINERAL AGGREGATE FOR SEAL (D.B.S.T.) | 1,230 | TON |
| (3) | 176-4 | SACKED SAND-CEMENT RIP-RAP | 10 | CU. YD. |
| | 600 | BLADING AND ROLLING | 5.107 | MILE |

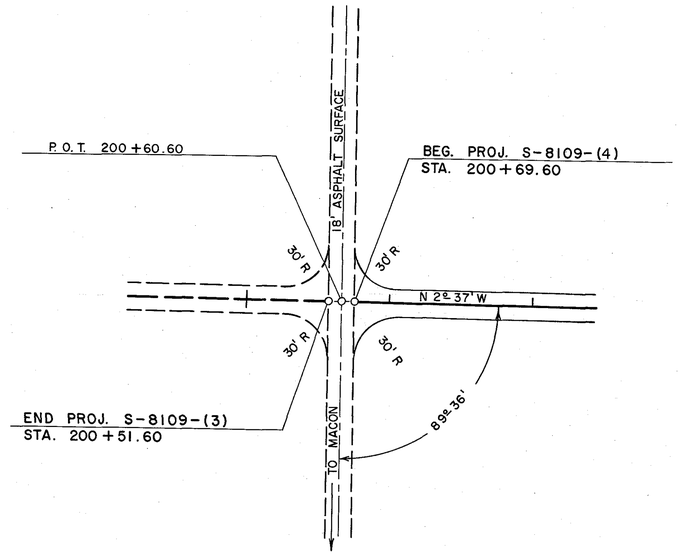
(1) — AT 1 lb. ± PER SQ. YD. (BASED ON TYPE 1)
(2) — INCLUDES 300 TONS OF CHOKER AGGREGATE
(3) — FOR USE AS DITCH CHECKS AS DIRECTED BY THE ENGINEER

## BASE SOUNDINGS

| MILES | 10' FT. LT. | 5' FT. LT. | ℄ | 5' FT. RT. | 10' FT. RT. |
|---|---|---|---|---|---|
| 0.00 | 8" | | | | |
| 0.10 | | 8½" | | | |
| 0.20 | | | 9" | | |
| 0.30 | | | | 8½" | |
| 0.40 | | | | | 8" |
| 0.50 | | | | 8½" | |
| 0.60 | | | 9" | | |
| 0.70 | | 8½" | | | |
| 0.80 | 8½" | | | | |
| 0.90 | | 8" | | | |
| 1.00 | | | 8½" | | |
| 1.10 | | | | 8½" | |
| 1.20 | | | | | 9" |
| 1.30 | | | | 8½" | |
| 1.40 | | | 10" | | |
| 1.50 | | 9" | | | |
| 1.60 | 9" | | | | |
| 1.70 | | 9" | | | |
| 1.80 | | | 9½" | | |
| 1.90 | | | | 8½" | |
| 2.00 | | | | | 8" |
| 2.10 | | | | 8½" | |
| 2.20 | | | 10" | | |
| 2.30 | | 8½" | | | |
| 2.40 | 8½" | | | | |
| 2.50 | | 9" | | | |
| 2.60 | | | 10" | | |
| 2.70 | | | | 8½" | |
| 2.80 | | | | | 8" |
| 2.90 | | | | 9" | |
| 3.00 | | | 10" | | |
| 3.10 | | 9" | | | |
| 3.20 | 8½" | | | | |
| 3.30 | | 9" | | | |
| 3.40 | | | 10" | | |
| 3.50 | | | | 9" | |
| 3.60 | | | | | 9" |
| 3.70 | | | | 9" | |
| 3.80 | | | 10" | | |
| 3.90 | | 9" | | | |
| 4.00 | 8½" | | | | |
| 4.10 | | 8½" | | | |
| 4.20 | | | 9½" | | |
| 4.30 | | | | 9" | |
| 4.40 | | | | | 9" |
| 4.50 | | | | 8½" | |
| 4.60 | | | 10" | | |
| 4.70 | | 9" | | | |
| 4.80 | 8½" | | | | |
| 4.90 | | 9" | | | |
| 5.00 | | | 10" | | |
| 5.10 | | | | 9" | |
| 5.140 | | | | | 9" |

| FED. ROAD DIST. NO. | STATE | FEDERAL AID PROJECT NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 3 | TENN. | S-8109(4) | 1966 | 3 | 60 |

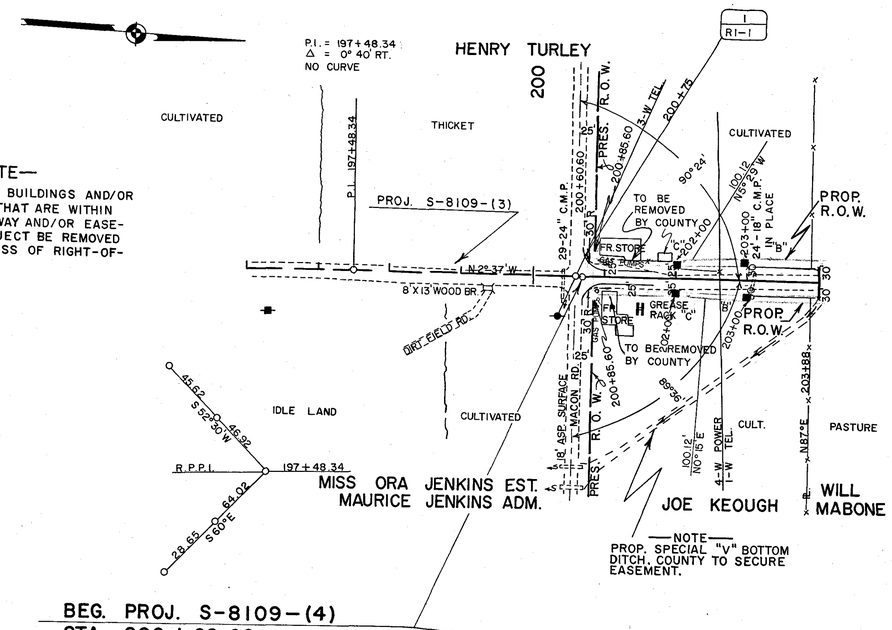
8-26-66 REVISED R.O.W. RT. & LT.
FROM STA. 200+ TO STA. 203+00

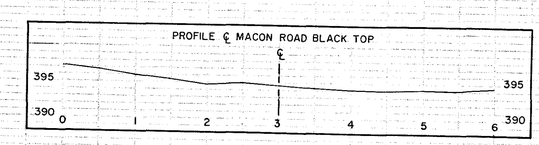


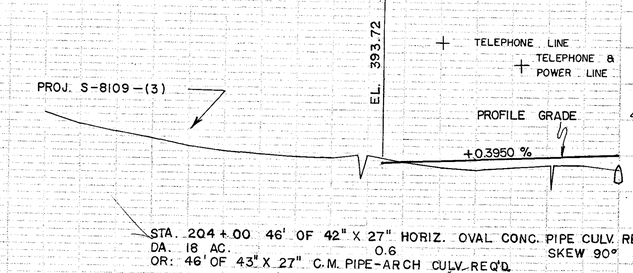

DETAIL OF INTERSECTION
SCALE 1" = 50'

—R.O.W. NOTE—

IT IS INTENDED THAT ALL BUILDINGS AND/OR PORTIONS OF BUILDINGS THAT ARE WITHIN THE PROPOSED RIGHT-OF-WAY AND/OR EASEMENT LINES FOR THE PROJECT BE REMOVED THEREFROM IN THE PROCESS OF RIGHT-OF-WAY ACQUISITIONS.



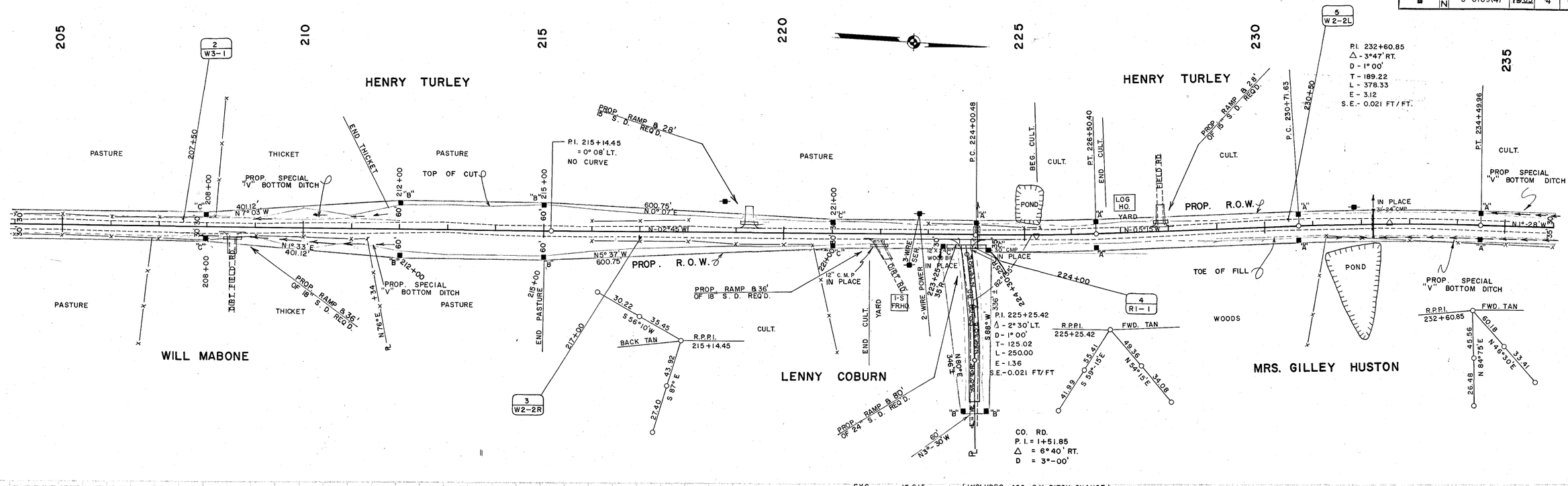

STA. 204+00 46' OF 42" X 27" HORIZ. OVAL CONC. PIPE CULV. REQ'D.
DA. 18 AC. 0.6 SKEW 90°
OR: 46' OF 43" X 27" C.M. PIPE-ARCH CULV. REQ'D.

B.M. ELEV. 393.79
NAIL IN ROOT 26" COTTON WOOD
38' RT. STA. 201+20

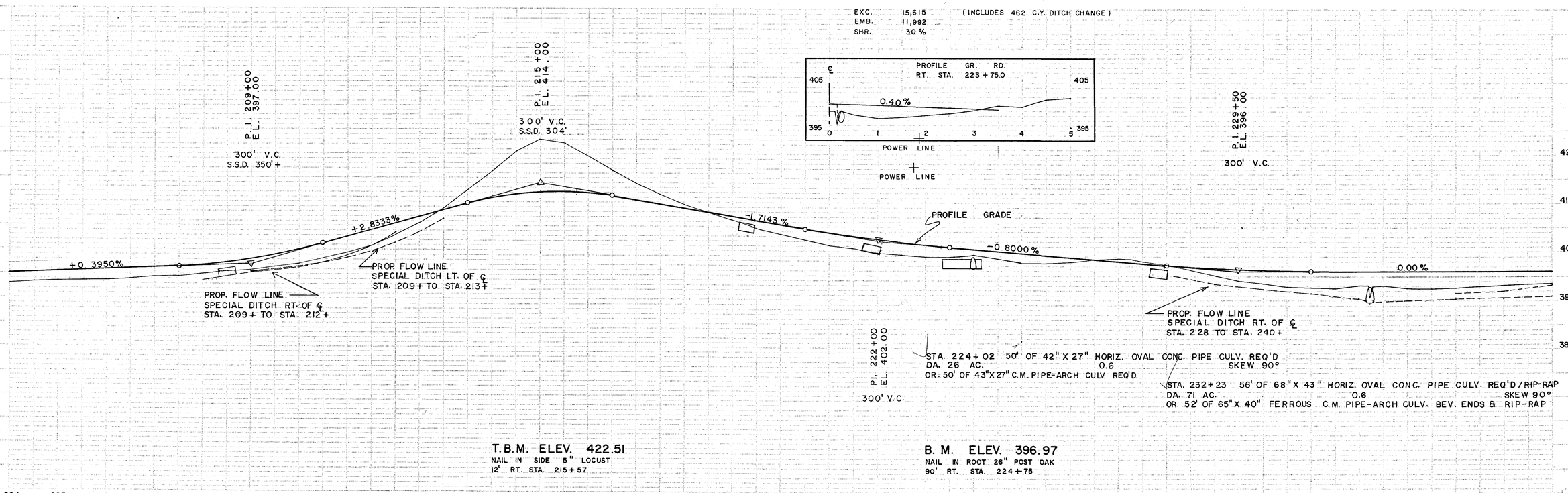
| FED. ROAD DIST. NO. | STATE | FEDERAL AID PROJECT NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 8 | TENN | S-8109(4) | 1965 | 4 | 60 |

TENN. STATE HIGHWAYS

Plans Divn. | File No. 7




EXC. 15,615 (INCLUDES 462 C.Y. DITCH CHANGE)
EMB. 11,992
SHR. 3.0 %




T.B.M. ELEV. 422.51
NAIL IN SIDE 5" LOCUST
12' RT. STA. 215+57

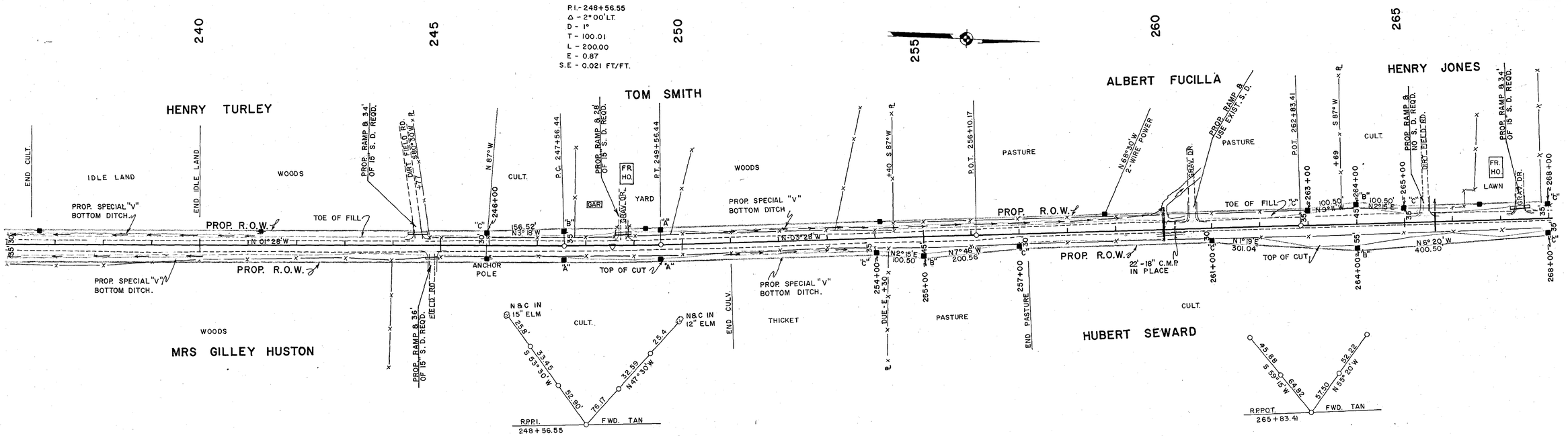
B. M. ELEV. 396.97
NAIL IN ROOT 26" POST OAK
90' RT. STA. 224+75

SCANNED

| FED. ROAD DIST. NO. | T E N N | FEDERAL AID PROJECT NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 8 | N | S-8109(4) | 1965 | 5 | 69 |

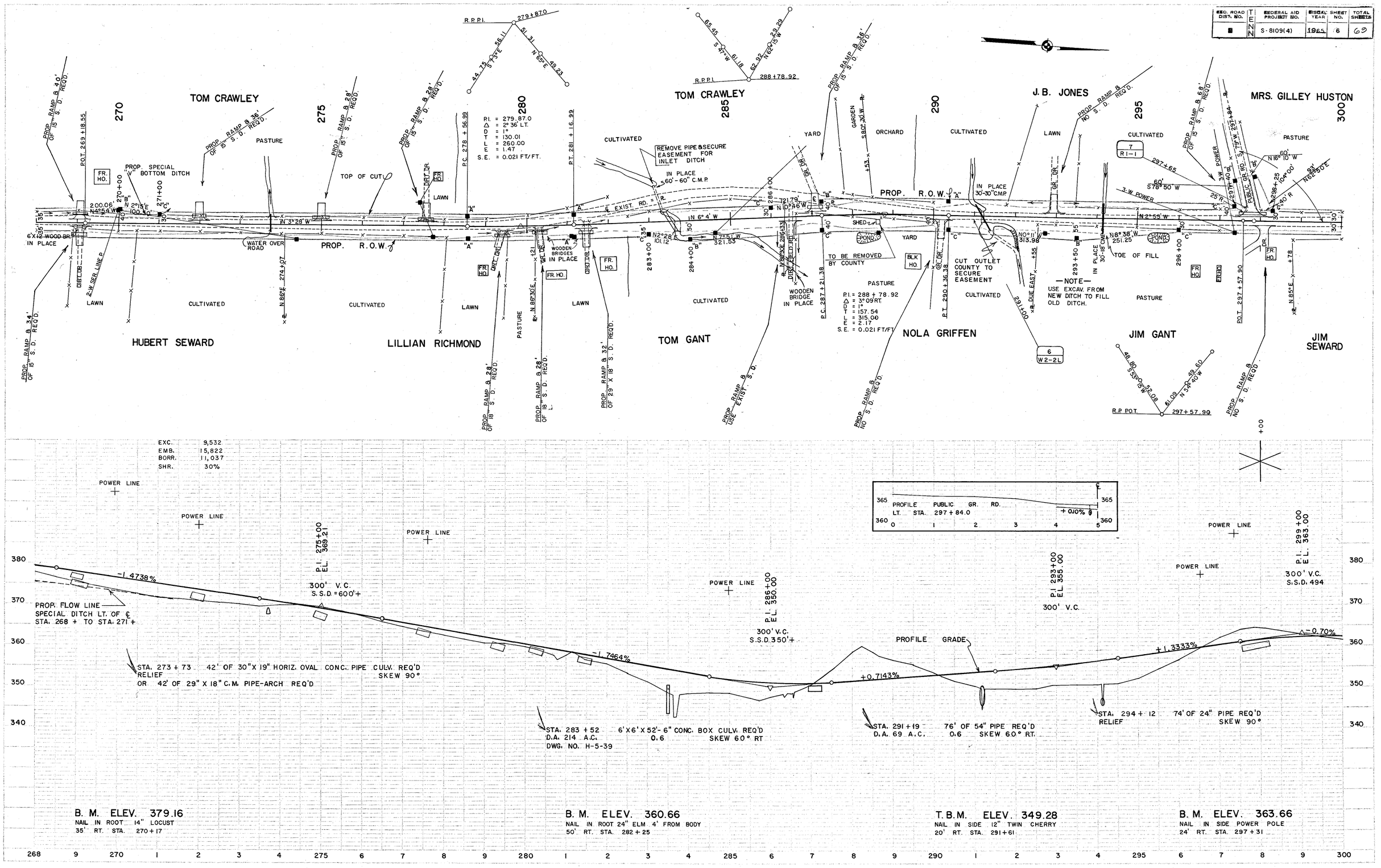
TENN. STATE HIGHWAYS
Plans File H
Dwn. No. 7

SCANNED

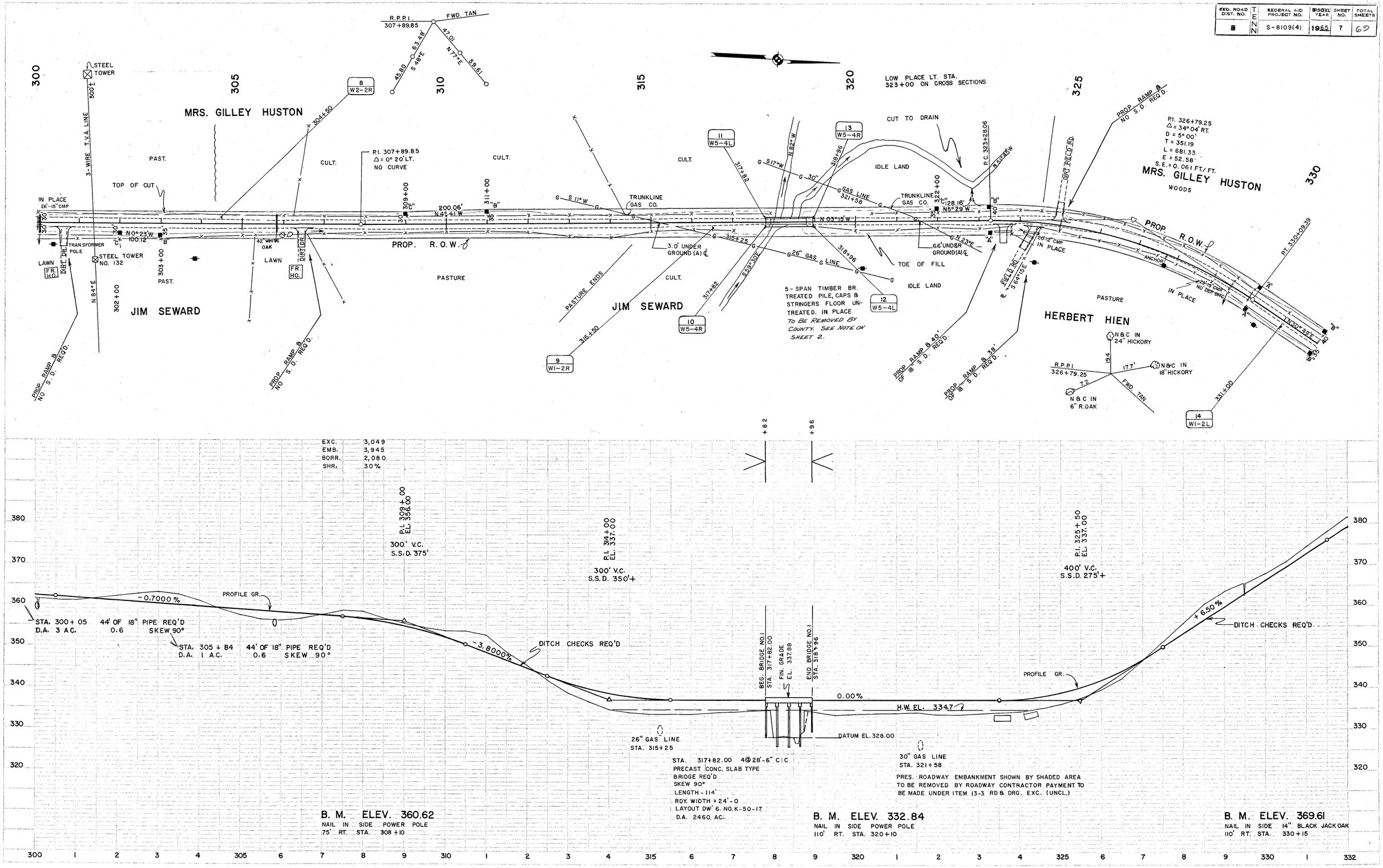


| FED. ROAD DIST. NO. | T N N E S S E E | FEDERAL AID PROJECT NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 8 | | S-8109(4) | 1965 | 6 | 69 |

TENN. STATE HIGHWAYS
Plans Divn. File H No. 7

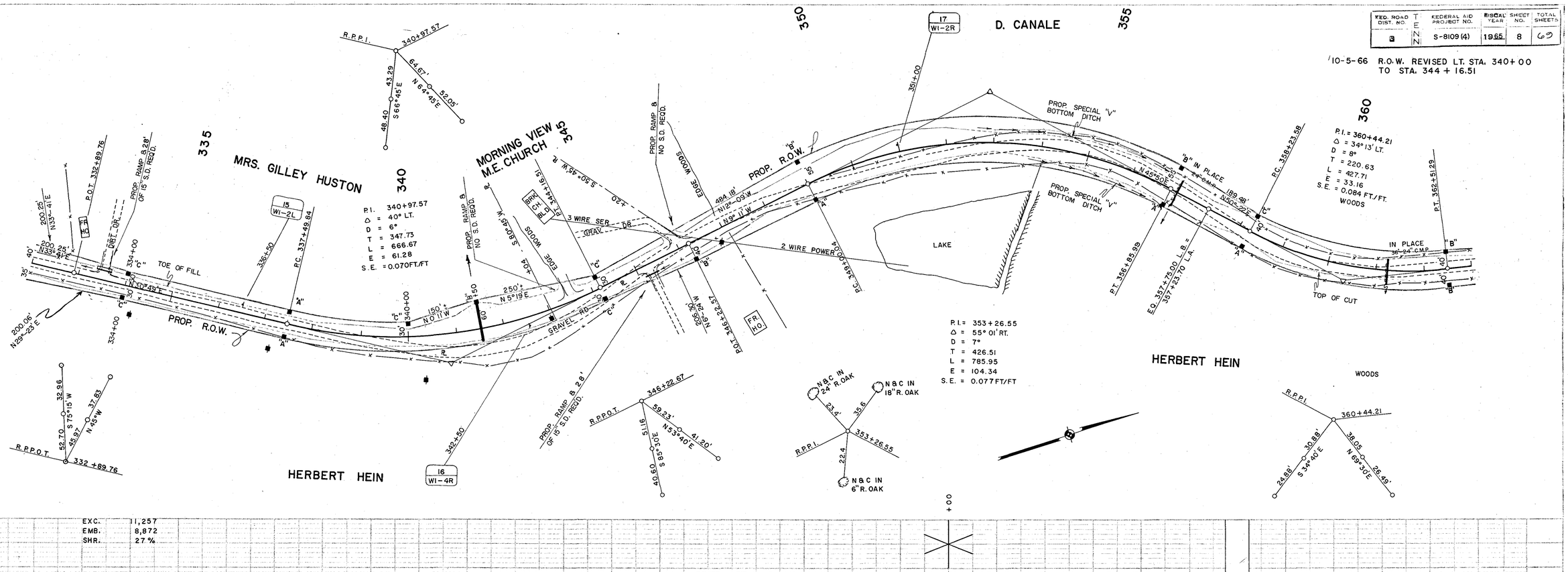


| FED. ROAD DIST. NO. | STATE | FEDERAL AID PROJECT NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 8 | TENN | S-8109(4) | 1955 | 7 | 69 |

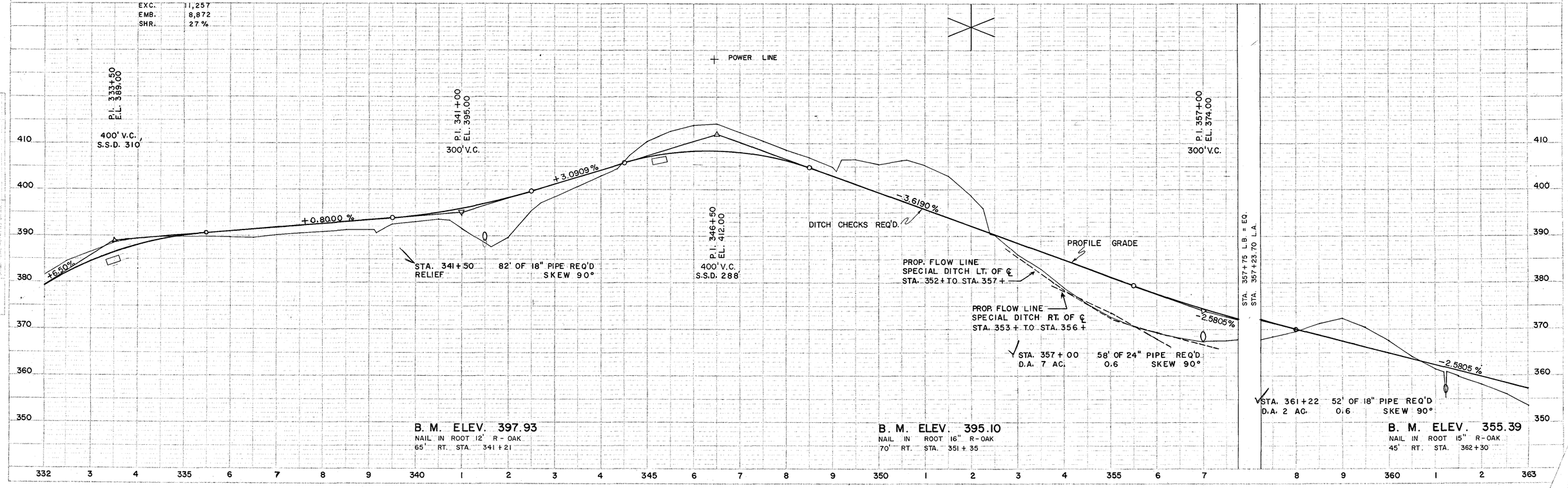


| FED. ROAD DIST. NO. | | FEDERAL AID PROJECT NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 3 | T E N N | S-8109(4) | 1965 | 8 | 69 |

10-5-66 R.O.W. REVISED LT. STA. 340+00 TO STA. 344+16.51




EXC. 11,257
EMB. 8,872
SHR. 27 %



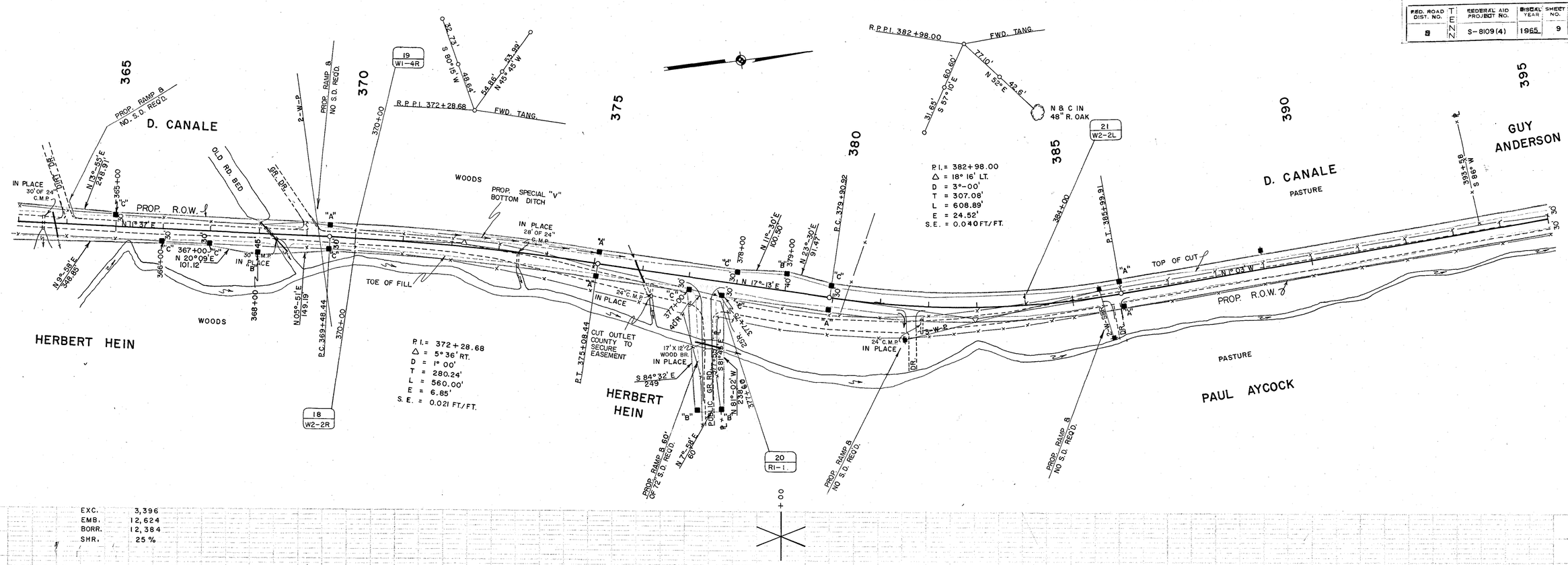

TENN. STATE HIGHWAYS
Plans Div. No. 7 File H

SCANNED

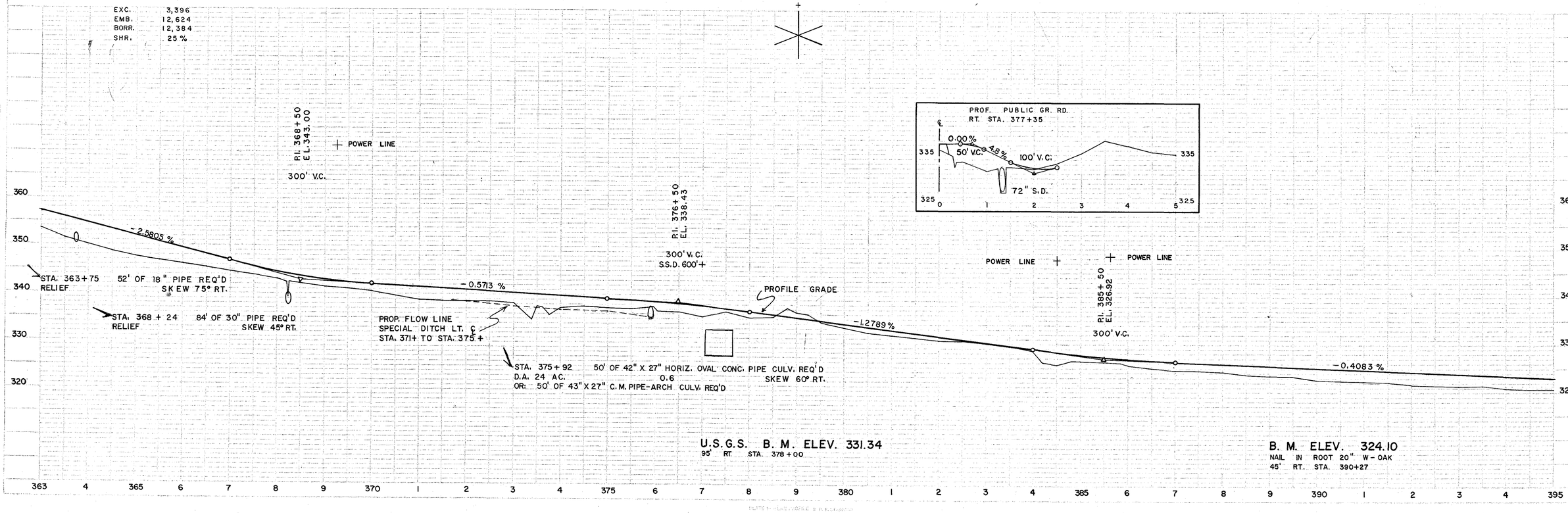
PLATE 1—PLAN PROFILE (B.P.R. STANDARD)
THE FREDERICK POST CO., Chicago

| FED. ROAD DIST. NO. | T E N N | FEDERAL AID PROJECT NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 9 | | S-8109(4) | 1965 | 9 | 68 |

TENN. STATE HIGHWAYS
Plans File H
Div. 7

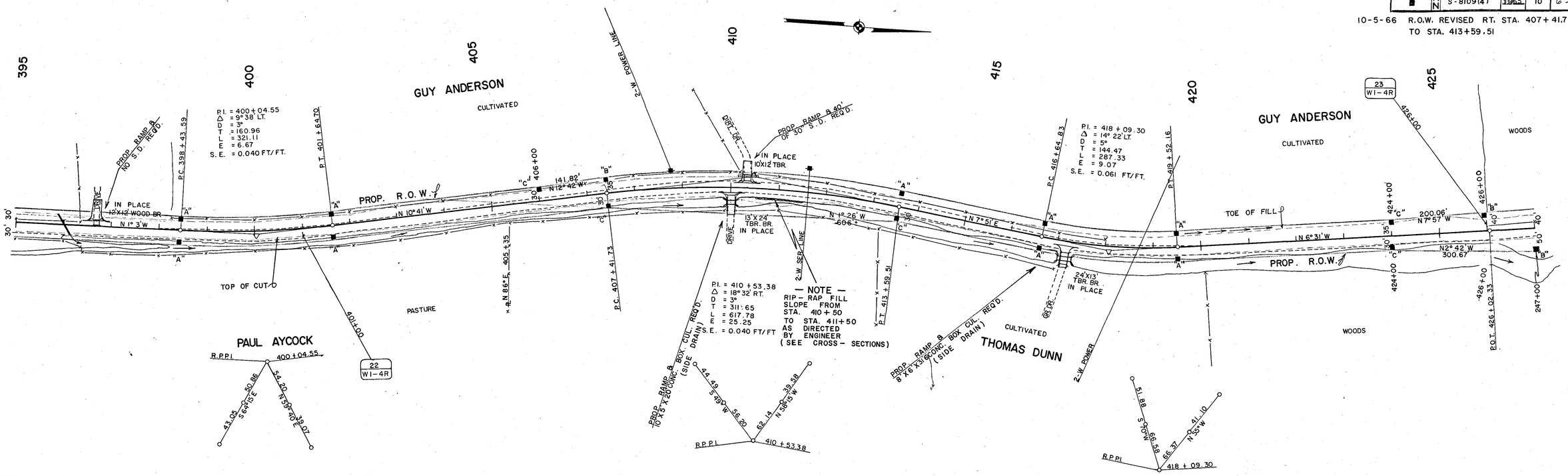



| | |
|---|---|
| EXC. | 3,396 |
| EMB. | 12,624 |
| BORR. | 12,384 |
| SHR. | 25 % |



| STATE DIST. NO. | TENN. | FEDERAL AID PROJECT NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|---|
| | | S-8109(4) | 1965 | 10 | 60 |

10-5-66 R.O.W. REVISED RT. STA. 407+41.73 TO STA. 413+59.51

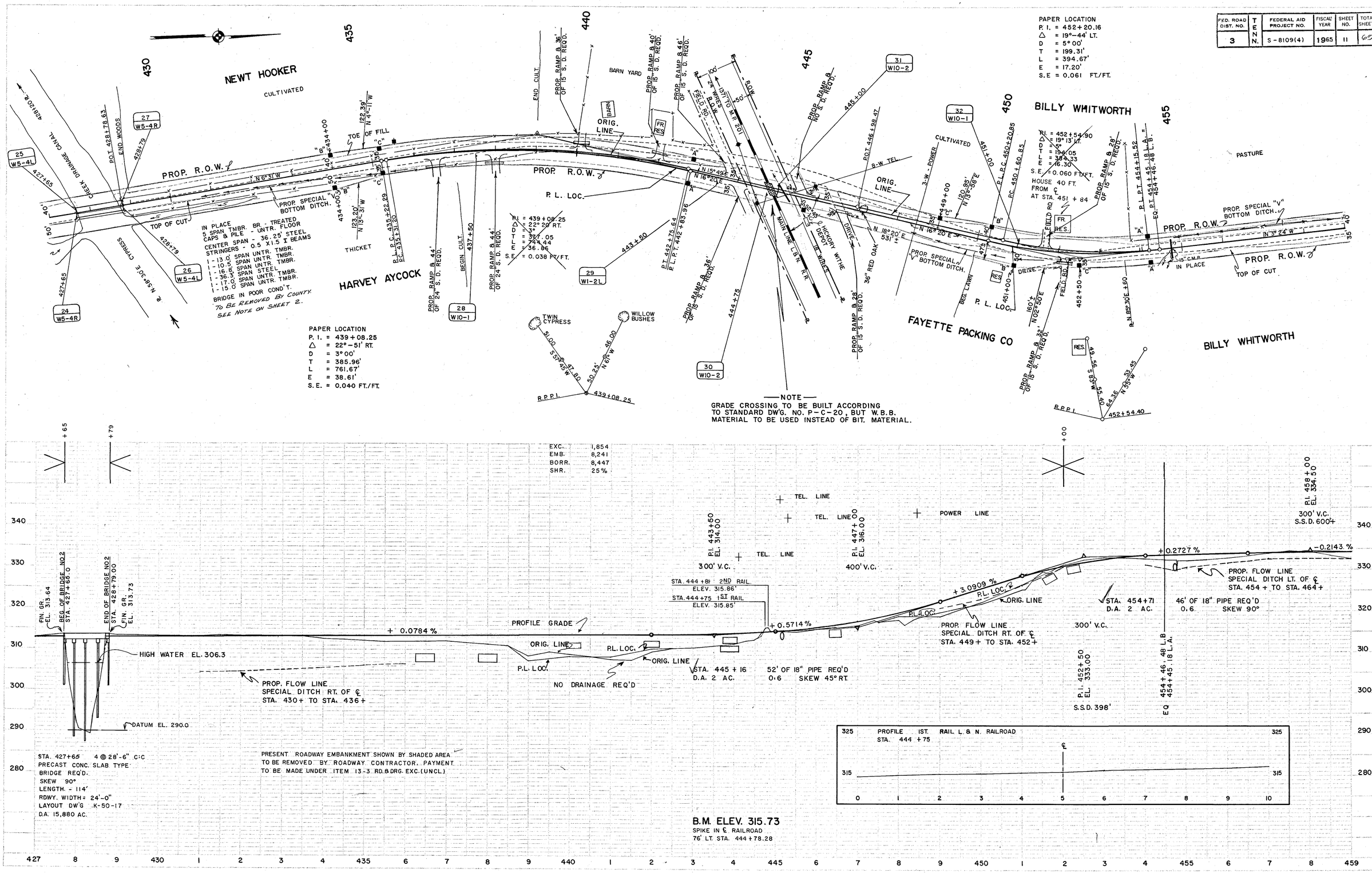



TENN. STATE HIGHWAYS
Plans Divn. | File No. 17

SCANNED

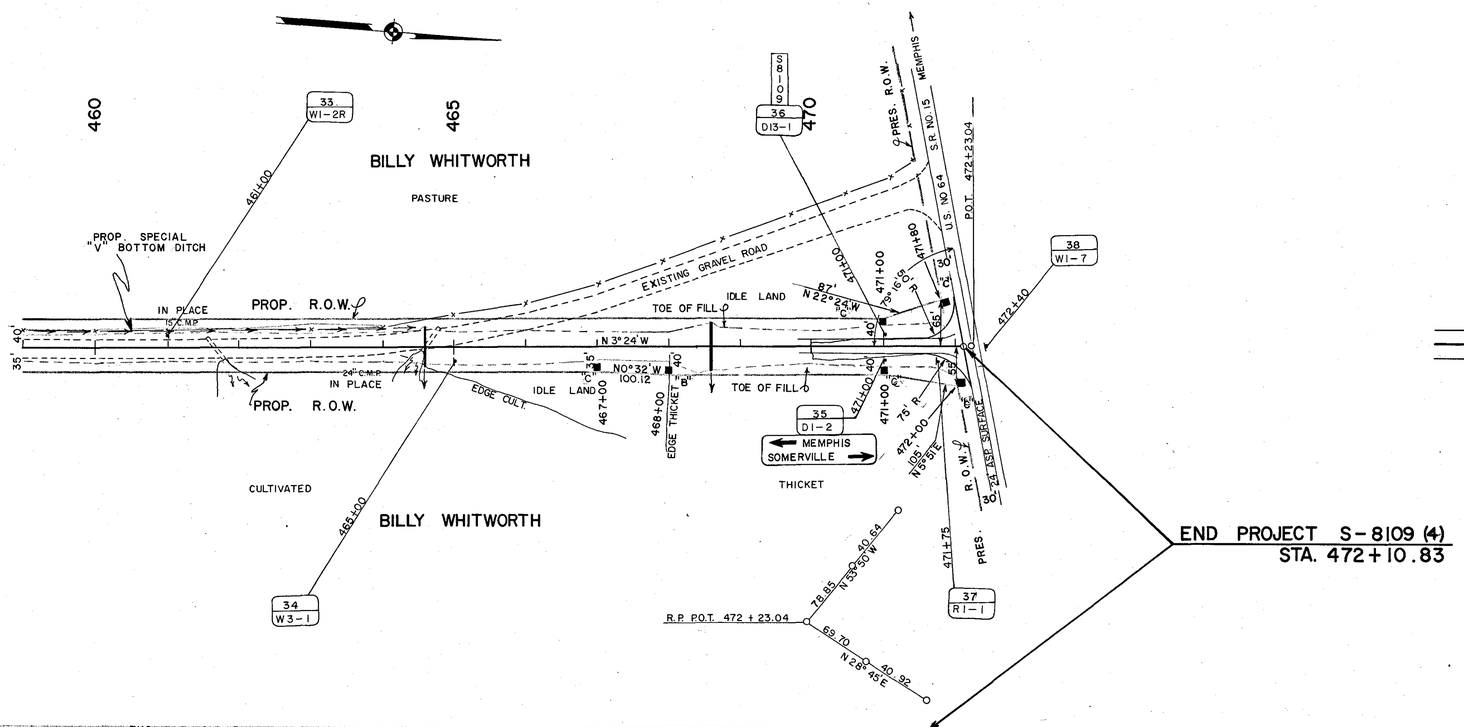
| FED. ROAD DIST. NO. | STATE NAME | FEDERAL AID PROJECT NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 3 | TENN. | S-8109(4) | 1965 | 11 | 69 |

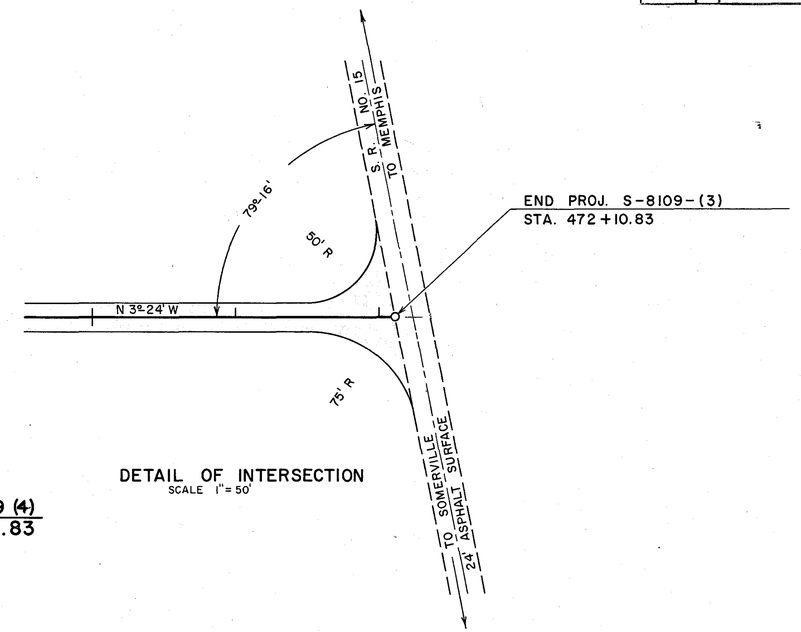
TENN. STATE HIGHWAYS
Plans Div. File No. 7



| FED. ROAD DIST. NO. | STATE | FEDERAL AID PROJECT NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 3 | TENN. | S-8109 (4) | 1965 | 12 | 60 |

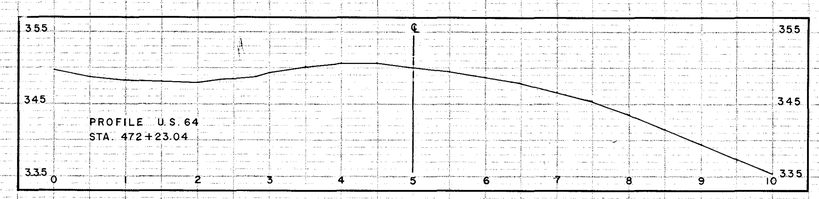
TENN. STATE HIGHWAYS
Plans File H
Divn. No. 7

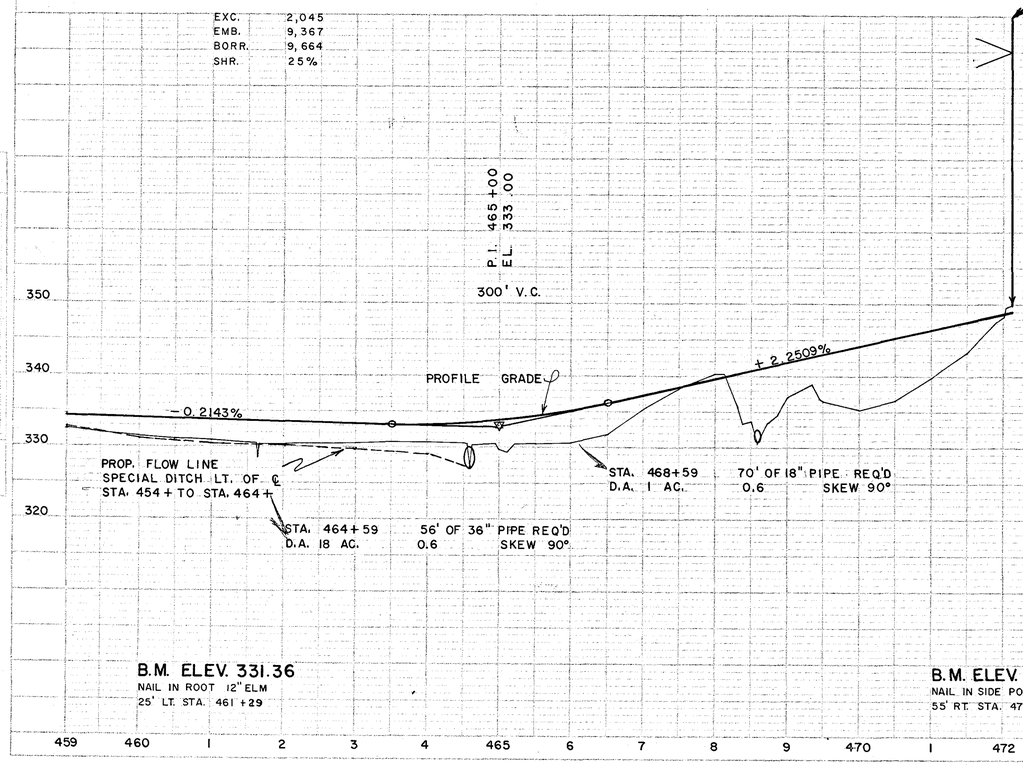



DETAIL OF INTERSECTION
SCALE 1" = 50'

| | |
|---|---|
| EXC. | 2,045 |
| EMB. | 9,367 |
| BORR. | 9,664 |
| SHR. | 25% |




**B.M. ELEV. 331.36**
NAIL IN ROOT 12" ELM
25' LT. STA. 461 + 29

**B.M. ELEV. 351.35**
NAIL IN SIDE POWER POLE
55' RT. STA. 472 + 73

**U.S.G.S. B.M. EL. 358.99**
LT. ℄ 500'±
STA. 472±

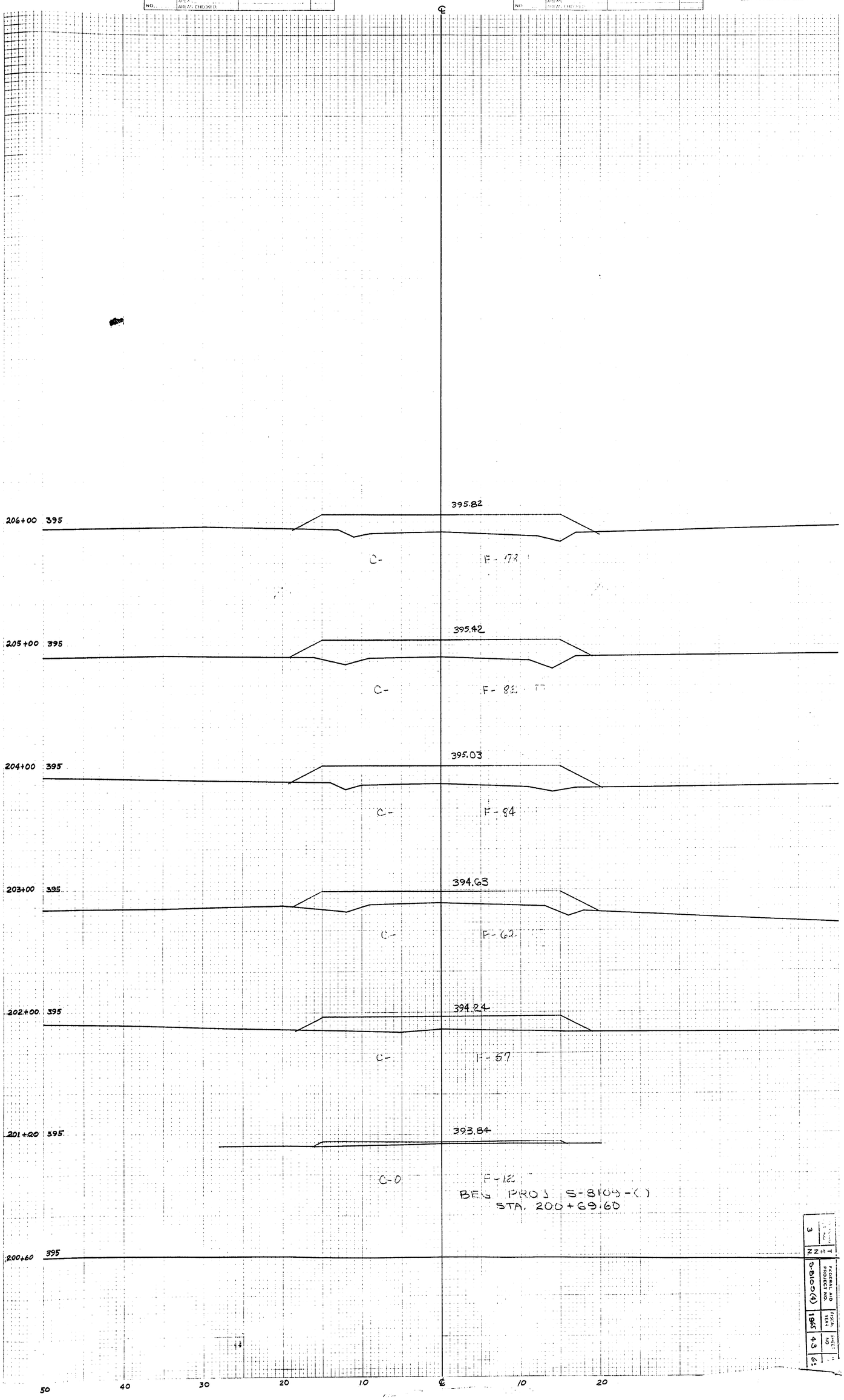
**U.S.G.S. B.M. EL. 358.99**
NO. TT 4CWH 1951
972' LT. 472 + 00±
41' SOUTH ℄ HWY 64

PLATE 1—PLAN PROFILE & X-SECTIONS
THE KARPRICK PRINT CO. Chicago

| ORIGINAL SURVEY | | BY | DATE |
|---|---|---|---|
| NOTE BOOK NO. | SURVEYED | | |
| | PLOTTED | | |
| | TEMPLATE | | |
| | AREAS | | |
| | AREAS CHECKED | | |

| FINAL SURVEY | | BY | DATE |
|---|---|---|---|
| NOTE BOOK NO. | SURVEYED | | |
| | PLOTTED | | |
| | TEMPLATE | U.C.S. | |
| | AREAS | | |
| | AREAS CHECKED | | |

TENN. STATE HIGHWAYS
Plans Div. File No. H 7




| SHEET NO. | TOTAL SHEETS | FEDERAL AID PROJECT NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 3 | 3 | S-8109(4) | 1965 | 4-3 | 6 |

| ORIGINAL SURVEY | | BY | DATE |
|---|---|---|---|
| | CHANGED | | |
| | CHECKED | | |
| | TEMPLATE | | |
| | AREAS | | |
| DATE DRAWN | AREAS CHECKED | | |
| DATE | | | |

CROSS SECTIONS PART 2
SURVEY C.S. 973 ROUTE S-8109
FAYETTE CO.
FROM KIRK ROAD
TO SR No 15 @ HICKORY WITHE
SCALE - 1" = 5' HOR & VERT

| FINAL SURVEY | | BY | DATE |
|---|---|---|---|
| | CHANGED | | |
| | CHECKED | | |
| | TEMPLATE | | |
| | AREAS | | |
| DATE DRAWN | AREAS CHECKED | W.C.S. | |
| DATE | | | |

| PLANS | File | Dwn. |
|---|---|---|
| | H | 7 |
| | No. | |

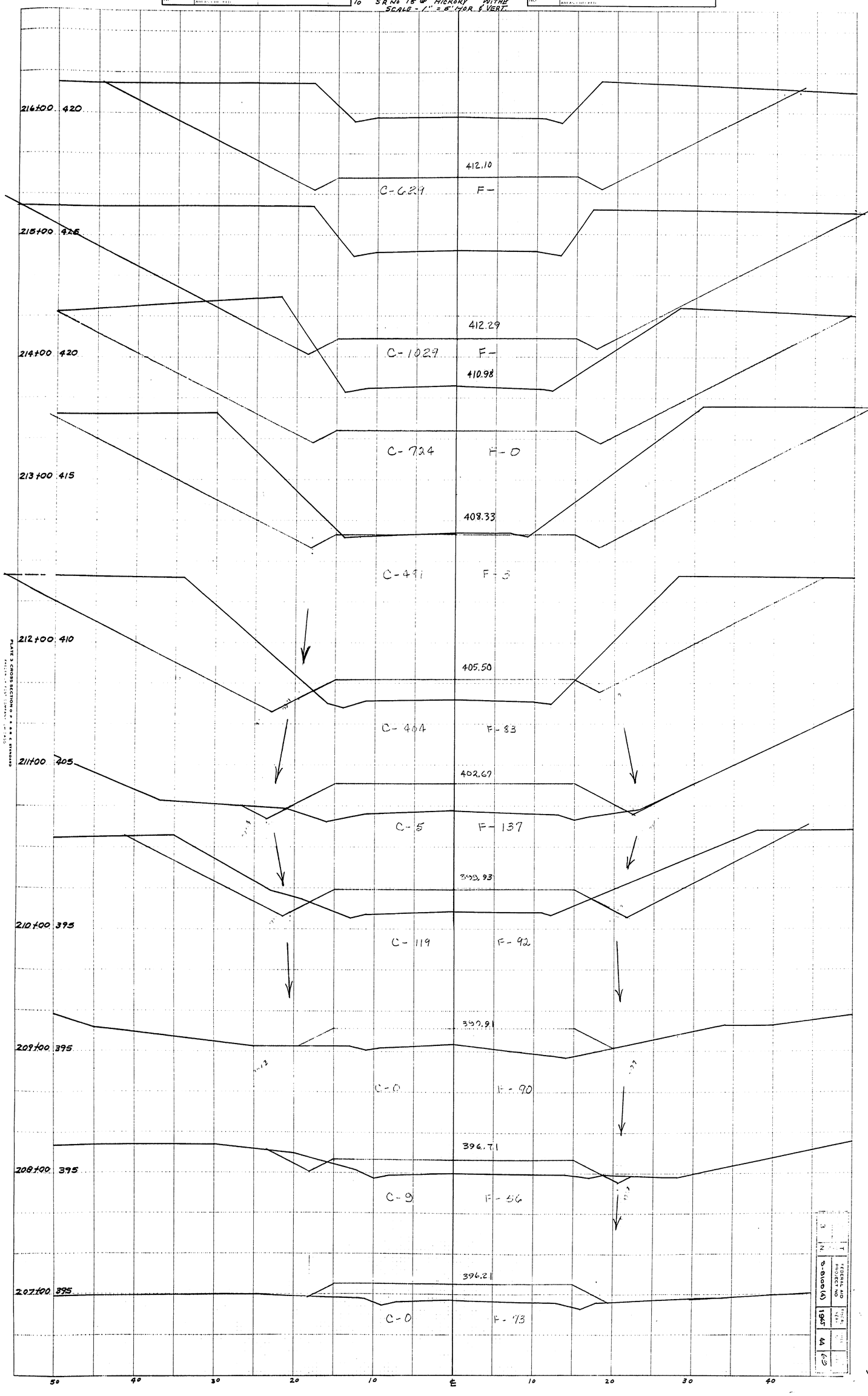



PLATE 3 - CROSS SECTION

| | | | |
|---|---|---|---|
| 3 | | | |
| N | | | |
| S-8109 (4) | FEDERAL AID PROJECT NO | | |
| 1967 | DATE | | |
| 44 | | | |
| 65 | | | |

| ORIGINAL SURVEY | BY | DATE |
|---|---|---|
| NOTE BOOK NO. | CHECKED / PLOTTED / TEMPLATE / AREAS / AREAS CHECKED | |

CROSS SECTIONS PART 2
SURVEY NO. C.S. 973 ROUTE S-8109
FAYETTE CO.
FROM KIRK ROAD
TO: S.R. 15 @ HICKORY WITHE
SCALE 1" = 5' HOR & VERT.

| FINAL SURVEY | BY | DATE |
|---|---|---|
| NOTE BOOK NO. | CHECKED / PLOTTED / TEMPLATE / AREAS / AREAS CHECKED | W.S.S. |

| DIVISION OF HIGHWAYS | |
|---|---|
| Plans | H |
| File No. | 7 |
| Dim. | |

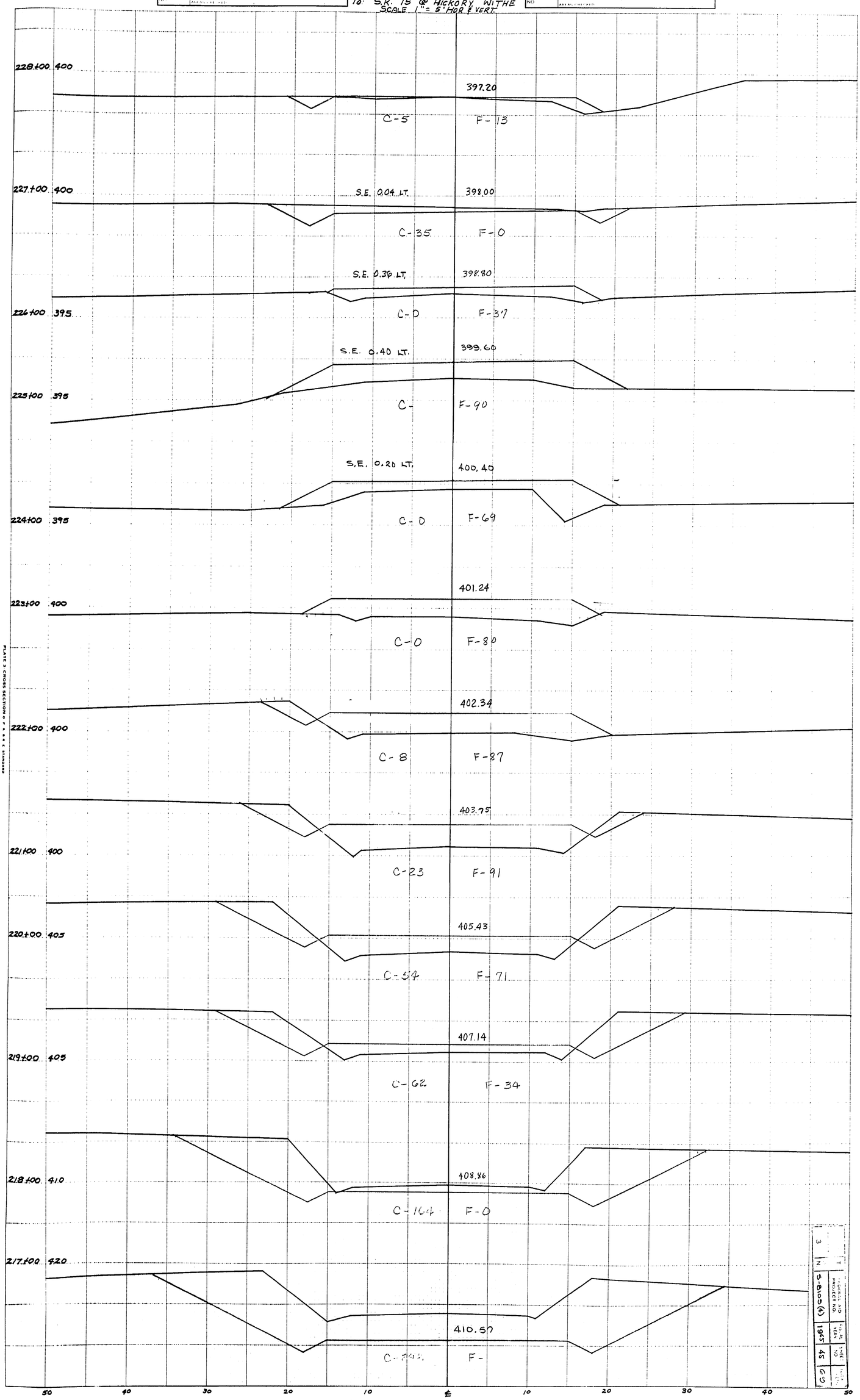


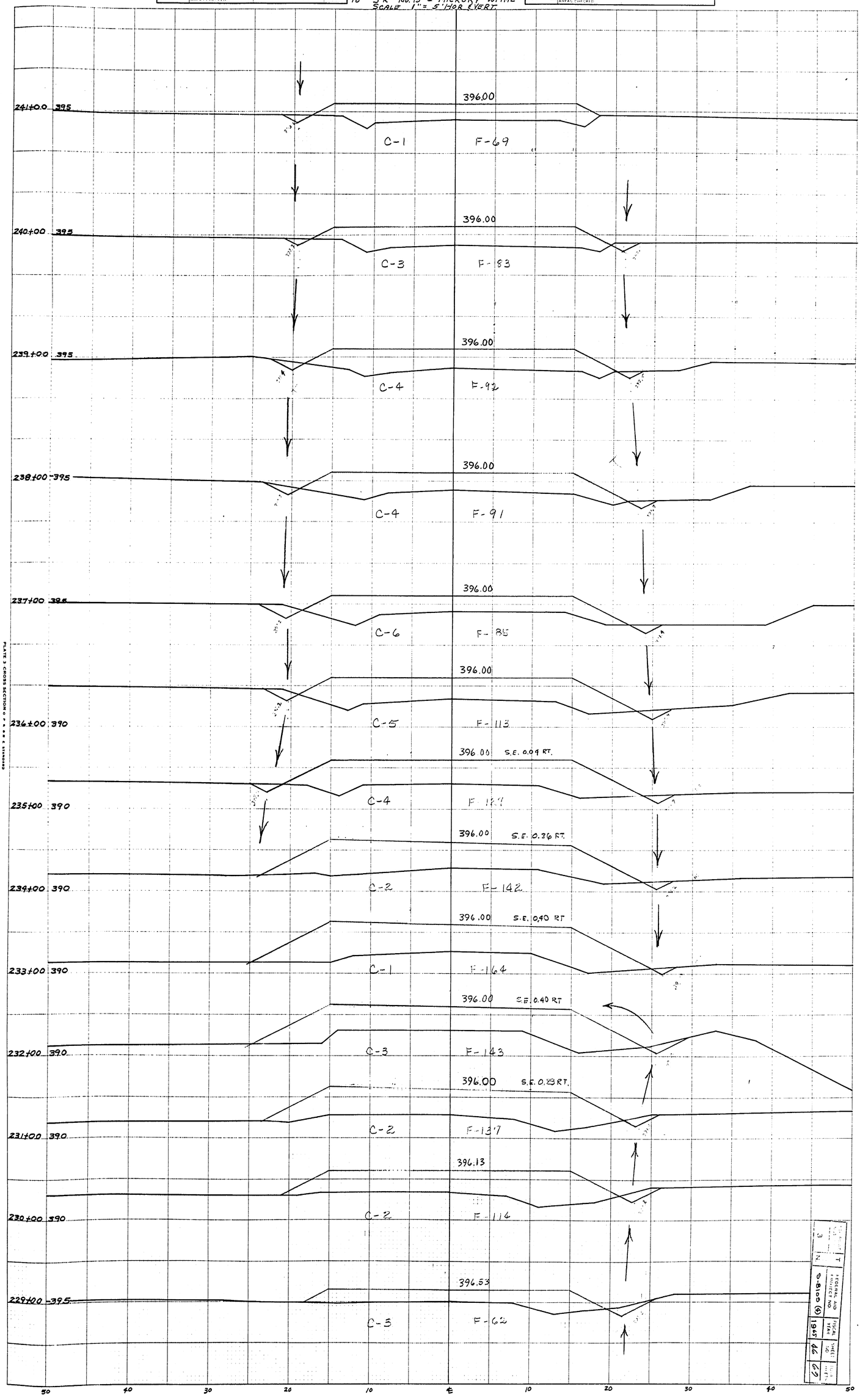

PLATE 3 CROSS SECTION O.R.&R.E. STANDARD

| | | | |
|---|---|---|---|
| 3 | N | T | |
| S-8109(4) | | DATE YEAR | SHEET NO. |
| 1963 | | 45 | 69 |

| ORIGINAL SURVEY | | BY | DATE |
|---|---|---|---|
| NOTE BOOK NO. | TRAVERSED<br>LEVELED<br>TEMPLATE<br>AREAS<br>AREAS CHECKED | | |

CROSS SECTIONS PART 2
SURVEY C.S. 973 ROUTE S-8109
FAYETTE CO.
FROM KIRK ROAD
TO SR No. 15 @ HICKORY WITHE
SCALE 1" = 5' HOR & VERT.

| FINAL SURVEY | | BY | DATE |
|---|---|---|---|
| NOTE BOOK NO. | TRAVERSED<br>LEVELED<br>TEMPLATE<br>AREAS<br>AREAS CHECKED | W. C.S. | |




| | | | |
|---|---|---|---|
| SHEET NO. 3 | TOTAL SHEETS 7 | FEDERAL AID PROJECT NO. S-8109 (9) | FISCAL YEAR 1967 |
| SHEET NO. 46 | TOTAL SHEETS 69 | | |

PLATE 3 CROSS SECTION O F & B & B STANDARD

| ORIGINAL SURVEY | | BY | DATE |
|---|---|---|---|
| NOTE BOOK NO. | SCALE USED<br>PLOTTED<br>TEMPLATE<br>AREAS<br>AREAS CHECKED | | |

CROSS SECTIONS PART 2
SURVEY C.S. 973 ROUTE S-8109
FAYETTE Co.
FROM KIRK ROAD
TO S.R. No. 15 @ HICKORY WITHE
SCALE 1" = 5' HOR & VERT.

| FINAL SURVEY | | BY | DATE |
|---|---|---|---|
| NOTE BOOK NO. | SCALE USED<br>PLOTTED<br>TEMPLATE<br>AREAS<br>AREAS CHECKED | WCS | |

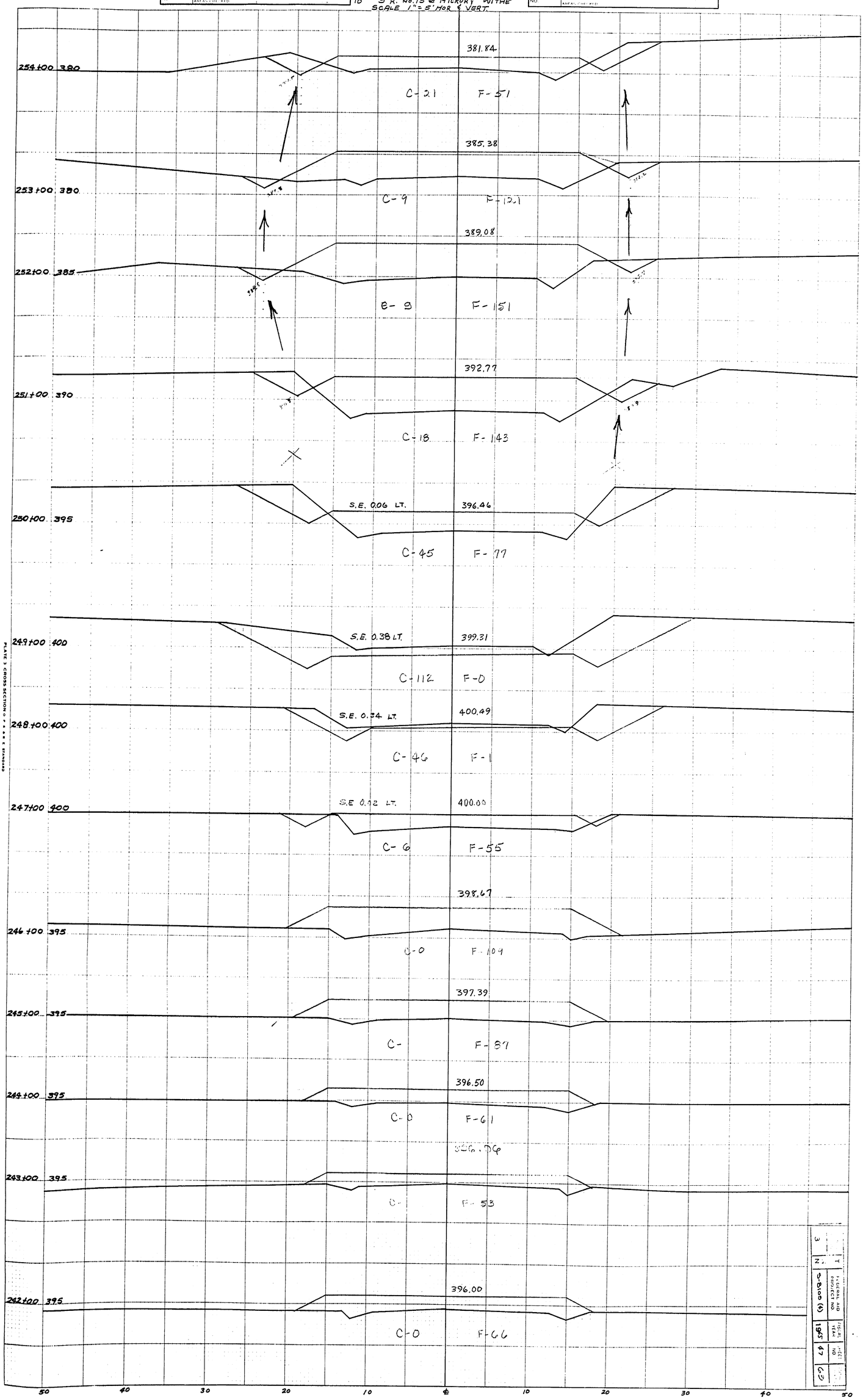



PLATE 3 CROSS SECTION O F & B & E STANDARD

| | | | |
|---|---|---|---|
| 3 | 1 | FEDERAL AID PROJECT NO. | |
| N | | S-8109 (4) | |
| 1965 | 47 | FISCAL YEAR | SHEET NO. |
| 65 | | | TOTAL SHEETS |

PLANS FILE DIVN. H No. 7

| ORIGINAL SURVEY | | BY | DATE |
|---|---|---|---|
| | SURVEYED | | |
| | PLOTTED | | |
| NOTE BOOK | TEMPLATE | | |
| NO | AREAS | | |
| | AREAS CHECKED | | |

CROSS SECTIONS PART 2
SURVEY C.S. 973 ROUTE S-8109
FAYETTE Co.
FROM KIRK ROAD
TO SR No. 19 @ HICKORY WITHE
SCALE 1" = 5' HOR & VERT.

| FINAL SURVEY | | BY | DATE |
|---|---|---|---|
| | SURVEYED | | |
| | PLOTTED | | |
| NOTE BOOK | TEMPLATE | | |
| NO | AREAS | WCS | |
| | AREAS CHECKED | | |

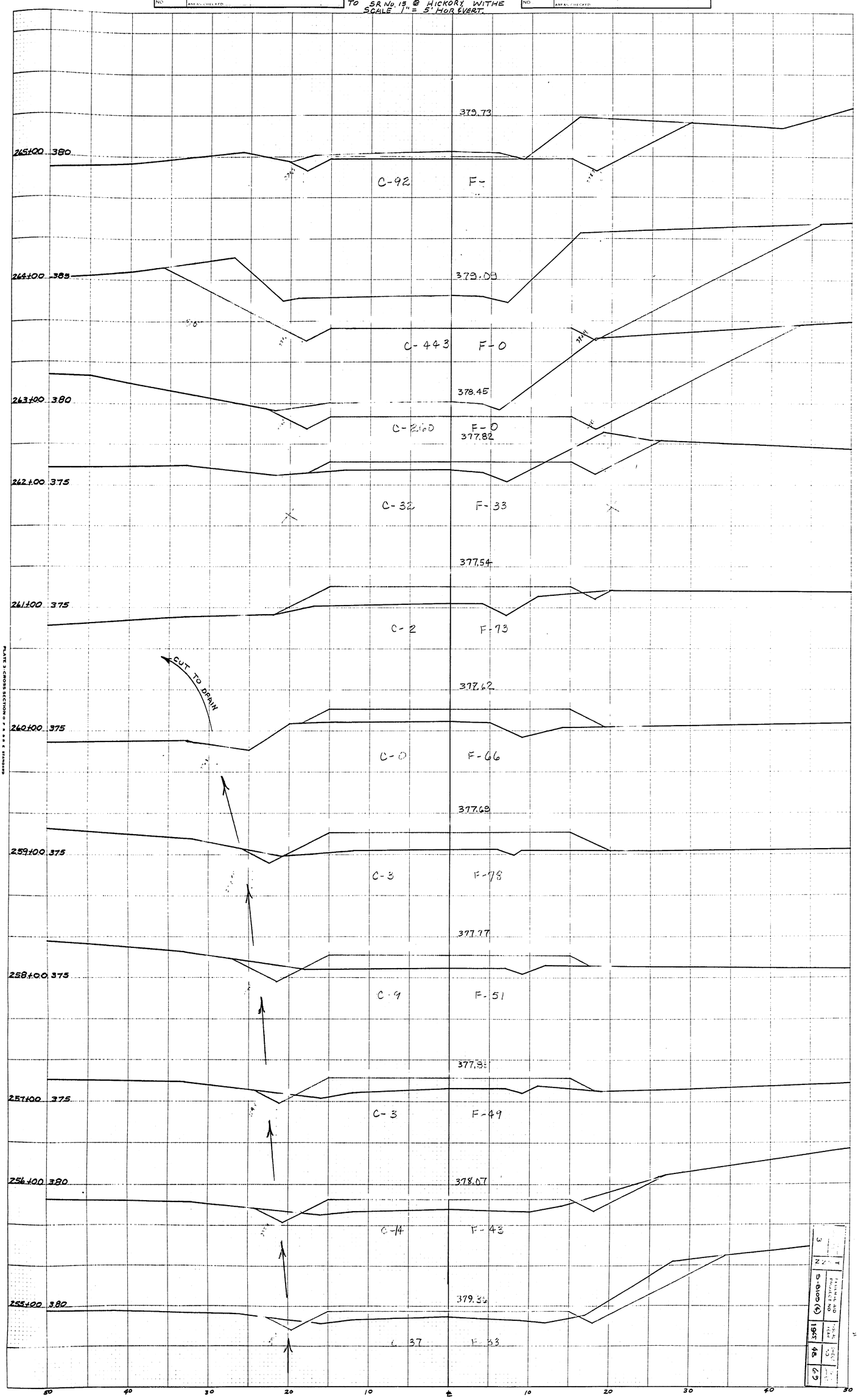



PLATE 3 CROSS SECTION O F B & B STANDARD
PHILLIPS-POST COMPANY

| Plans | H | 7 |
|---|---|---|
| DIVN. | FILE | No. |

TENN. STATE HIGHWAY DEPT.

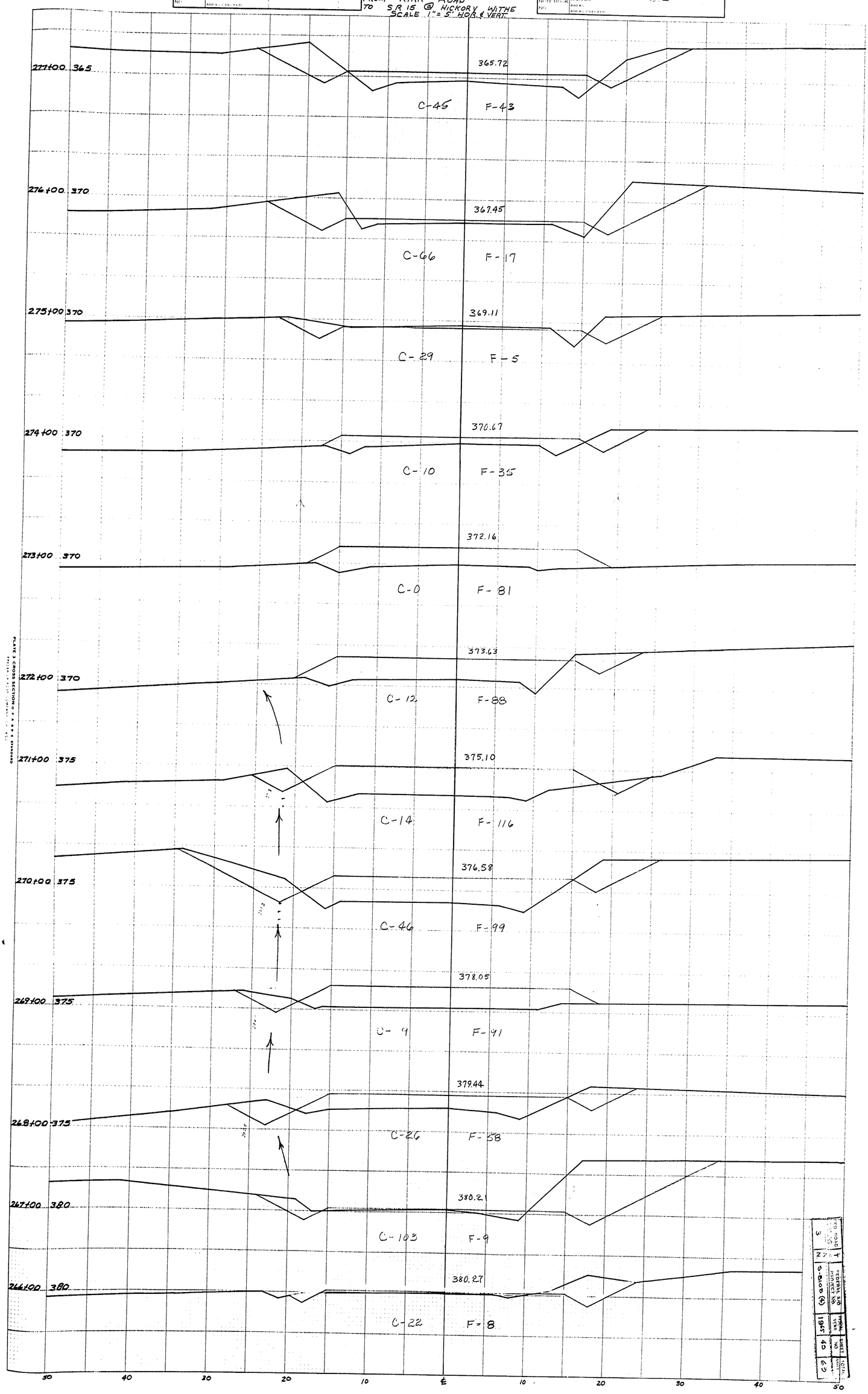
| | | | |
|---|---|---|---|
| 3 | | | |
| N | | T | |
| S-8109 (4) | | FEDERAL AID PROJECT NO. | |
| 1965 | | FISCAL YEAR | |
| 48 | | SHEET NO. | |
| 69 | | TOTAL SHEETS | |

| Plans | File | H |
|---|---|---|
| Divn. | No. | 7 |

| ORIGINAL SURVEY | | BY | DATE |
|---|---|---|---|
| NOTE BOOK NO. | FIELD NOTES: PLOTTED: TEMPLATES: AREAS: AREAS CHECKED: | | |

CROSS SECTIONS PART 2
SURVEY C.S.973 ROUTE S-8109
FAYETTE CO.
FROM KIRK ROAD
TO S.R. 15 @ HICKORY WITHE
SCALE 1" = 5' HOR. & VERT.

| FINAL SURVEY | | BY | DATE |
|---|---|---|---|
| NOTE BOOK NO. | FIELD NOTES: PLOTTED: TEMPLATES: AREAS: AREAS CHECKED: | | |




| PROJECT | | | |
|---|---|---|---|
| 3 | N | N | T |
| FEDERAL AID PROJECT NO. | S-8109 (4) | | |
| FISCAL YEAR | 1965 | | |
| SHEET NO. | 40 | | |
| TOTAL SHEETS | 69 | | |

PLATE 3 CROSS SECTION

| ORIGINAL SURVEY | | BY | DATE |
|---|---|---|---|
| | SURVEYED | | |
| | REVISED | | |
| | TEMPLATE | | |
| | AREAS | | |
| | AREAS CHECKED | | |

CROSS SECTIONS PART 2
SURVEY C.S. 973 ROUTE S-8109
FAYETTE CO.
From KIRK ROAD
TO SR 15 @ HICKORY WITHE
SCALE 1" = 5' HOR & VERT.

| FINAL SURVEY | | BY | DATE |
|---|---|---|---|
| | SURVEYED | | |
| | REVISED | | |
| | TEMPLATE | | |
| | AREAS | | |
| | AREAS CHECKED | | |

| TEN. | PLANS | DIVN. |
|---|---|---|
| | FILE | NO. |
| | H | 7 |

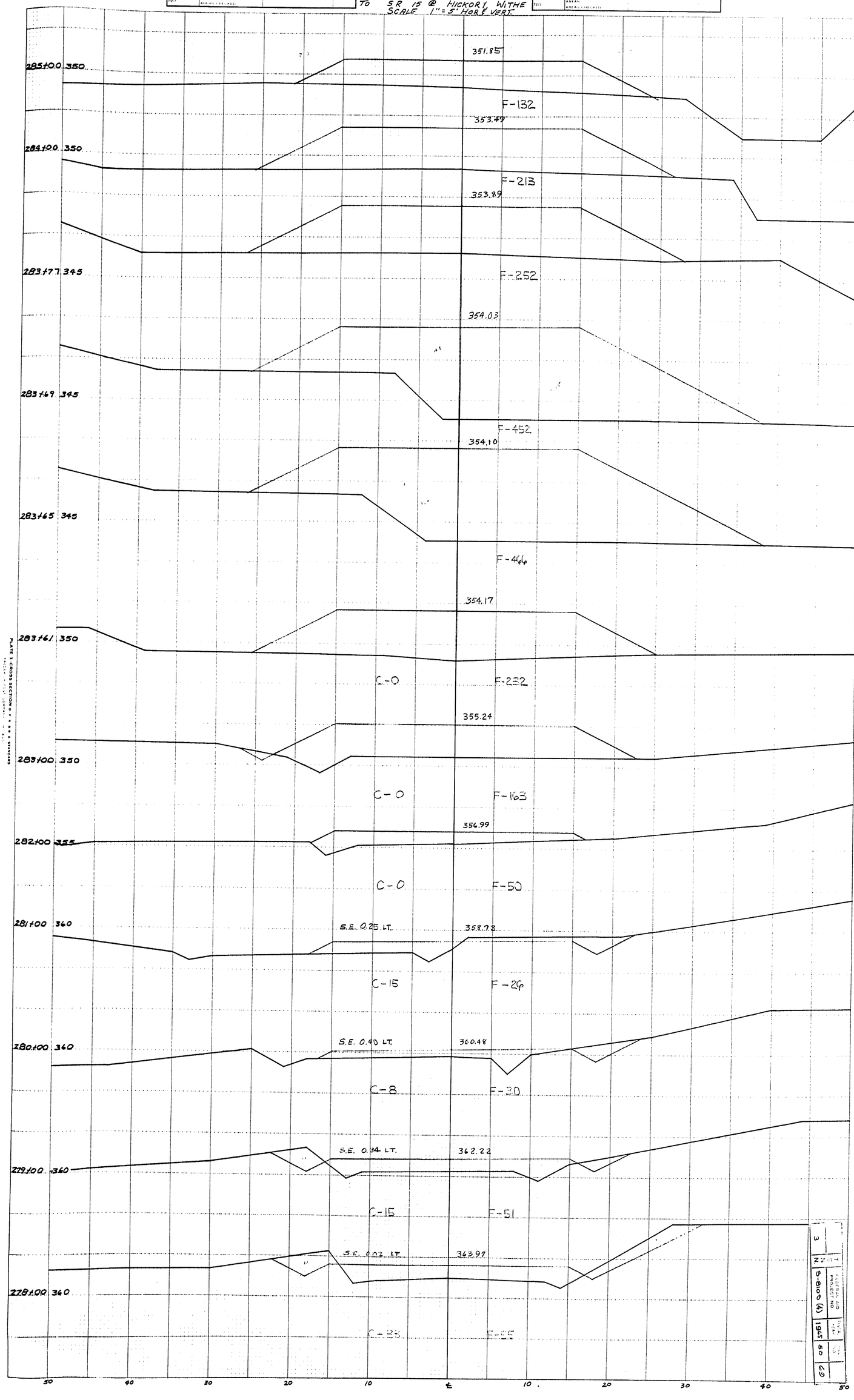



PLATE 3 - CROSS SECTION O F A B & E STANDARD

| 3 | 1 |
|---|---|
| S-8109 (4) | |
| 1957 | |
| 60 | |
| 69 | |

| ORIGINAL SURVEY | | BY | DATE |
|---|---|---|---|
| | | | |

CROSS SECTIONS PART 2
SURVEY C.S 973 - ROUTE S-8109
FAYETTE CO.
FROM KIRK ROAD
TO: SR 15 @ HICKORY WITHE
SCALE - 1" = 5' HORZ & VERT.

| FINAL SURVEY | | BY | DATE |
|---|---|---|---|
| | | KJY | |

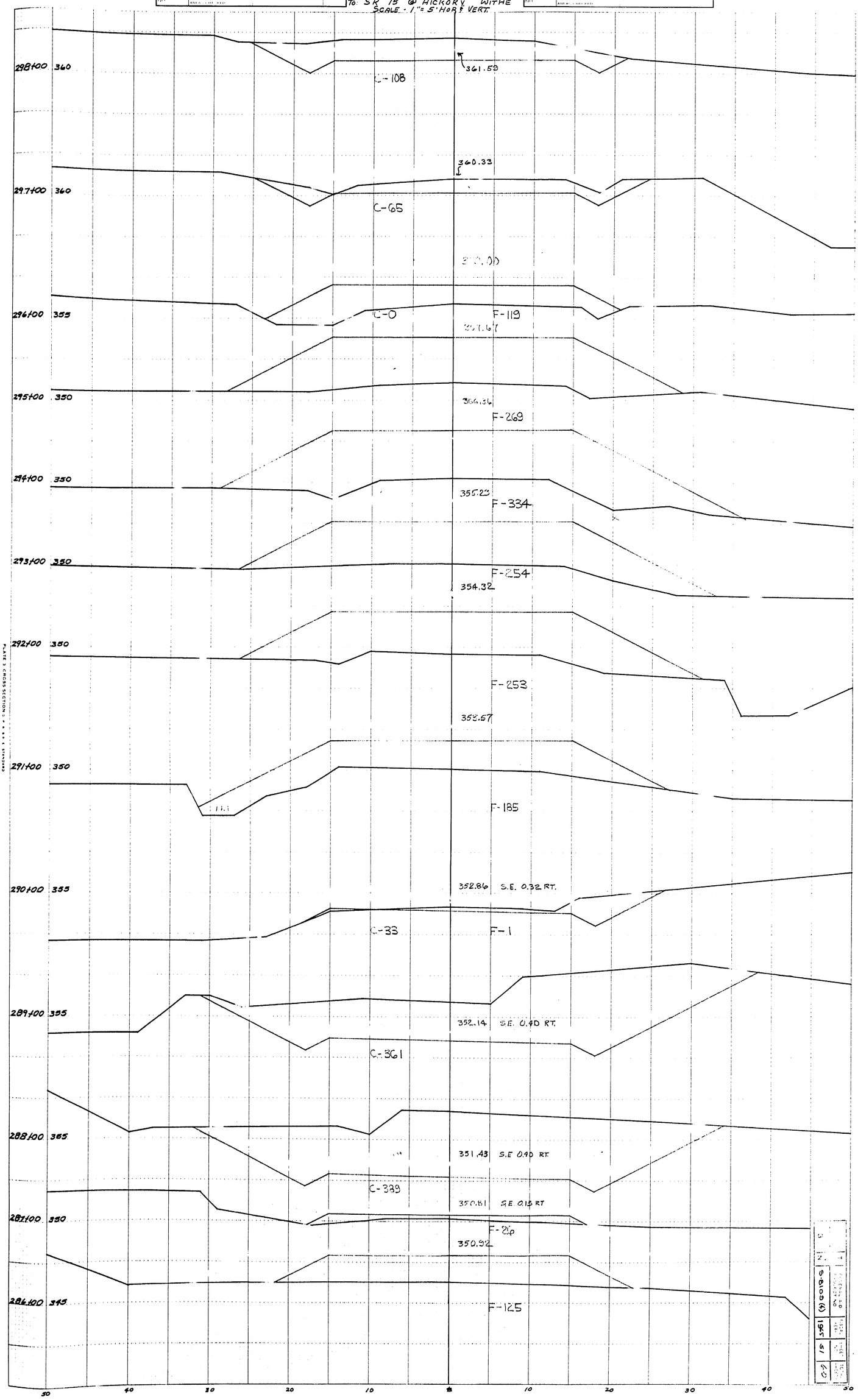
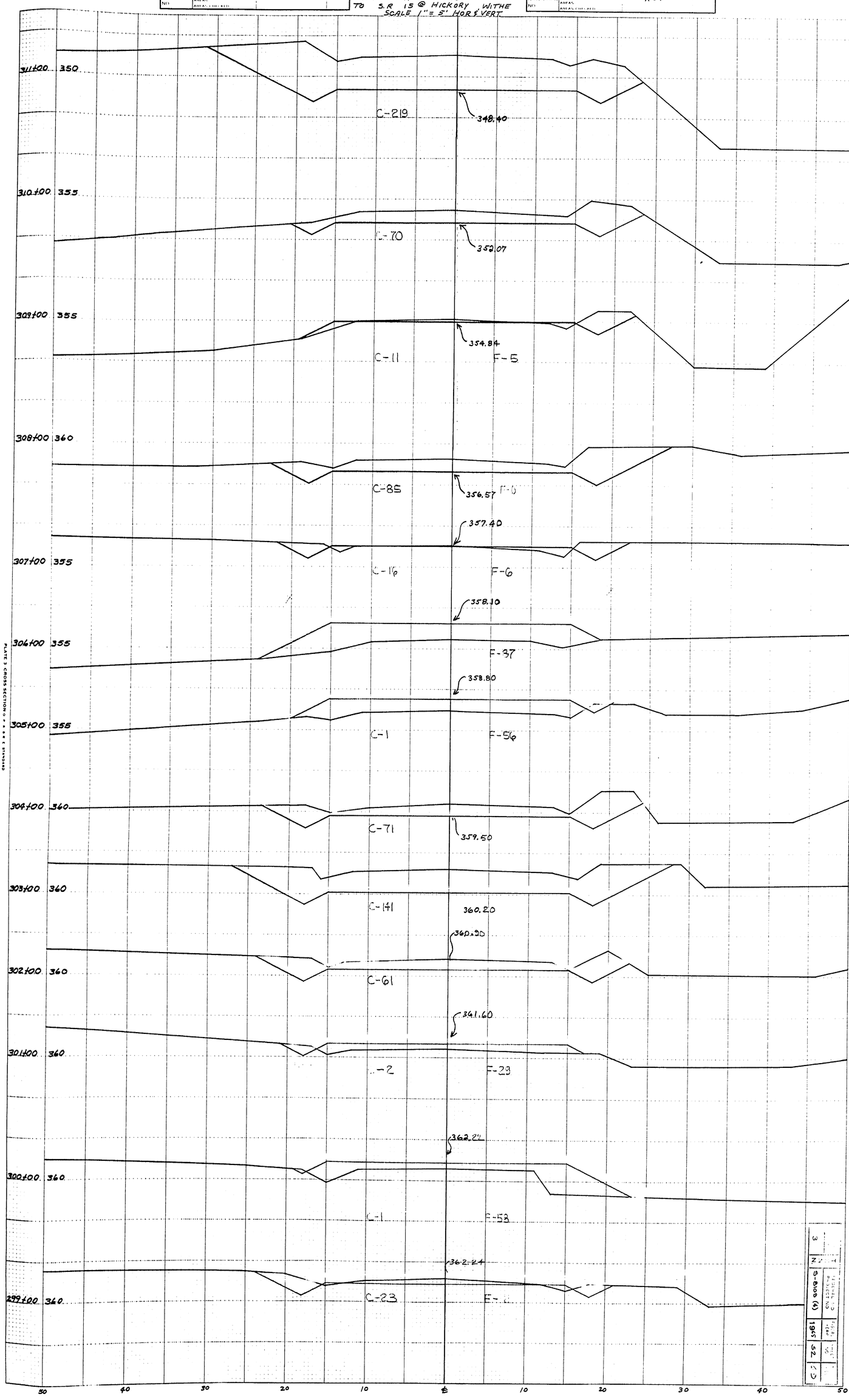



PLATE 3 - CROSS SECTION 2 - 4 - 6 - 8 - STAGED

| ORIGINAL SURVEY | | BY | DATE |
|---|---|---|---|
| NOTE BOOK NO. | SURVEYED<br>PLOTTED<br>TEMPLATE<br>AREAS<br>AREAS CHECKED | | |

CROSS - SECTIONS PART 2
SURVEY C.S. 973 ROUTE S-8109
FAYETTE Co
FROM KIRK ROAD
TO S.R 15 @ HICKORY WITHE
SCALE 1" = 5' HOR & VERT

| FINAL SURVEY | | BY | DATE |
|---|---|---|---|
| NOTE BOOK NO. | SURVEYED<br>PLOTTED<br>TEMPLATE<br>AREAS<br>AREAS CHECKED | KJY | |




| 3 | N/A | S-8109 (4) | 1965 | 52 | 1 |
|---|---|---|---|---|---|
| | | PROJECT NO. | YEAR | SHEET NO. | TOTAL SHEETS |

PLATE 3 CROSS SECTION 0 + 00 & 0 STANDARD

| ORIGINAL SURVEY | | BY | DATE |
|---|---|---|---|
| NOTE BOOK | SURVEYED | | |
| NO | PLOTTED | | |
| | TEMPLATE | | |
| | AREAS | | |
| | AREAS CHECKED | | |

CROSS SECTIONS PART 2
SURVEY C.S. 973-ROUTE S-8109
FAYETTE CO.
FROM: KIRK ROAD
TO SR 15 @ HICKORY WITHE
SCALE 1" = 5' HOR & VERT.

| FINAL SURVEY | | BY | DATE |
|---|---|---|---|
| NOTE BOOK | SURVEYED | | |
| NO | PLOTTED | | |
| | TEMPLATE | KJY | |
| | AREAS | | |
| | AREAS CHECKED | | |

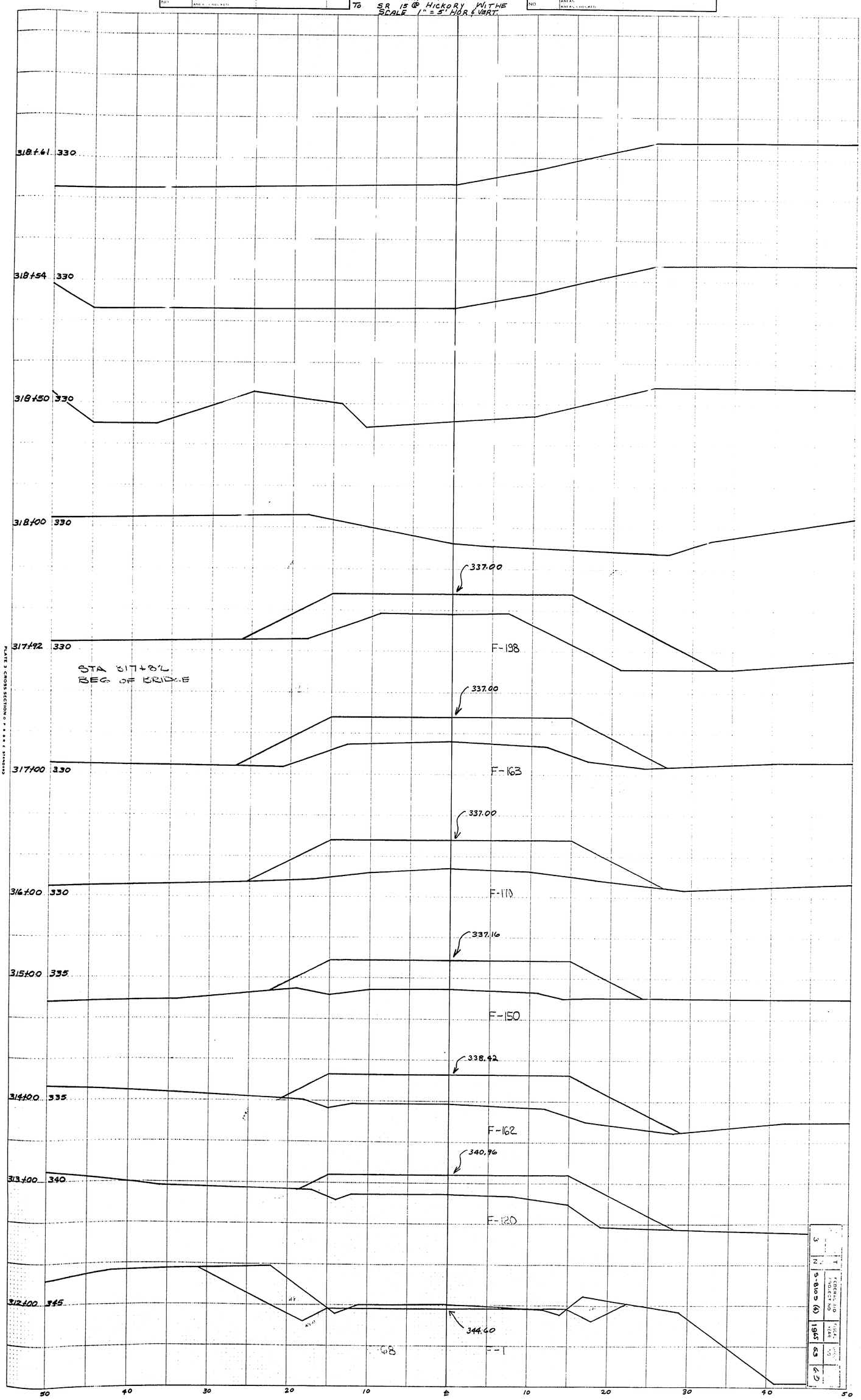



PLATE 3 CROSS SECTION OF F.B.R.R. STANDARD

| | | | | | | |
|---|---|---|---|---|---|---|
| 3 | N | T | | | | |
| 5-8109 (4) | FEDERAL AID PROJECT NO. | | | | | |
| 1965 | YEAR | | | | | |
| 53 | NO. | | | | | |
| 69 | | | | | | |

| ORIGINAL SURVEY | | BY | DATE |
|---|---|---|---|
| NOTEBOOK NO | SURVEYED | | |
| | PLOTTED | | |
| | TEMPLATE | | |
| | AREAS | | |
| | AREAS CHECKED | | |

CROSS SECTIONS PART 2
SURVEY C.S. 973 ROUTE S-8109
FAYETTE CO.
FROM KIRK ROAD
TO S.R 15 @ HICKORY WITHE
SCALE 1" = 5' HOR & VERT.

| FINAL SURVEY | | BY | DATE |
|---|---|---|---|
| NOTEBOOK NO | SURVEYED | | |
| | PLOTTED | | |
| | TEMPLATE | | |
| | AREAS | | |
| | AREAS CHECKED | | |

KJY

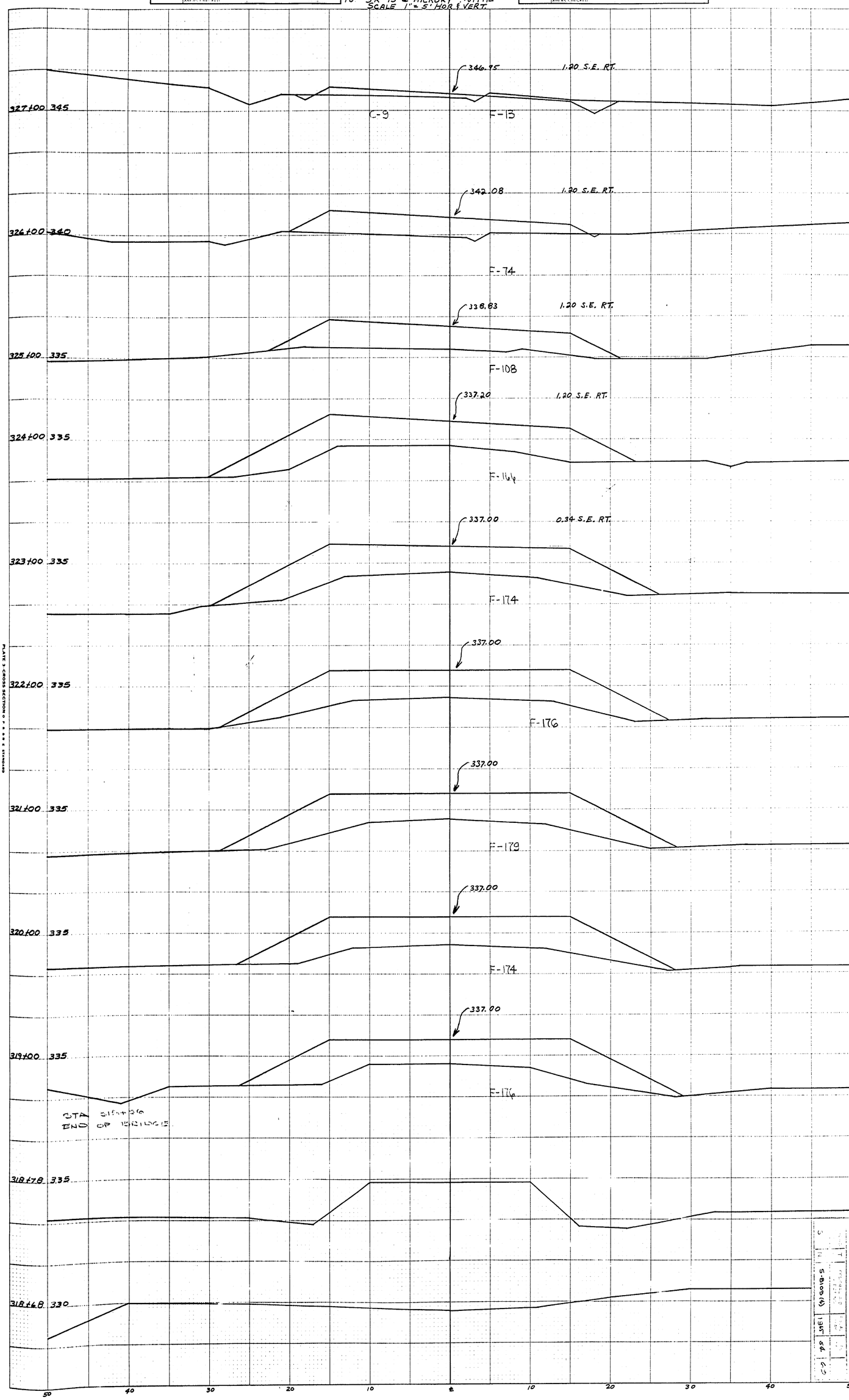



PLATE 3 CROSS SECTIONS
THE ASPHALT PAVING COMPANY OF OHIO

S-8109(4)
SHEET 3 OF 6

Plans
Dwg. No. 7
File H

| ORIGINAL SURVEY | | | | | |
|---|---|---|---|---|---|
| | | | | | |

CROSS SECTIONS PART 2
SURVEY C.S.973 - ROUTE S-8109
FAYETTE Co.
FROM KIRK Rd
TO S.R. 15 @ HICKORY WITHE
SCALE 1" = 5' HOR & VERT.

| FINAL SURVEY | | | | | |
|---|---|---|---|---|---|
| | | | | | KJY |

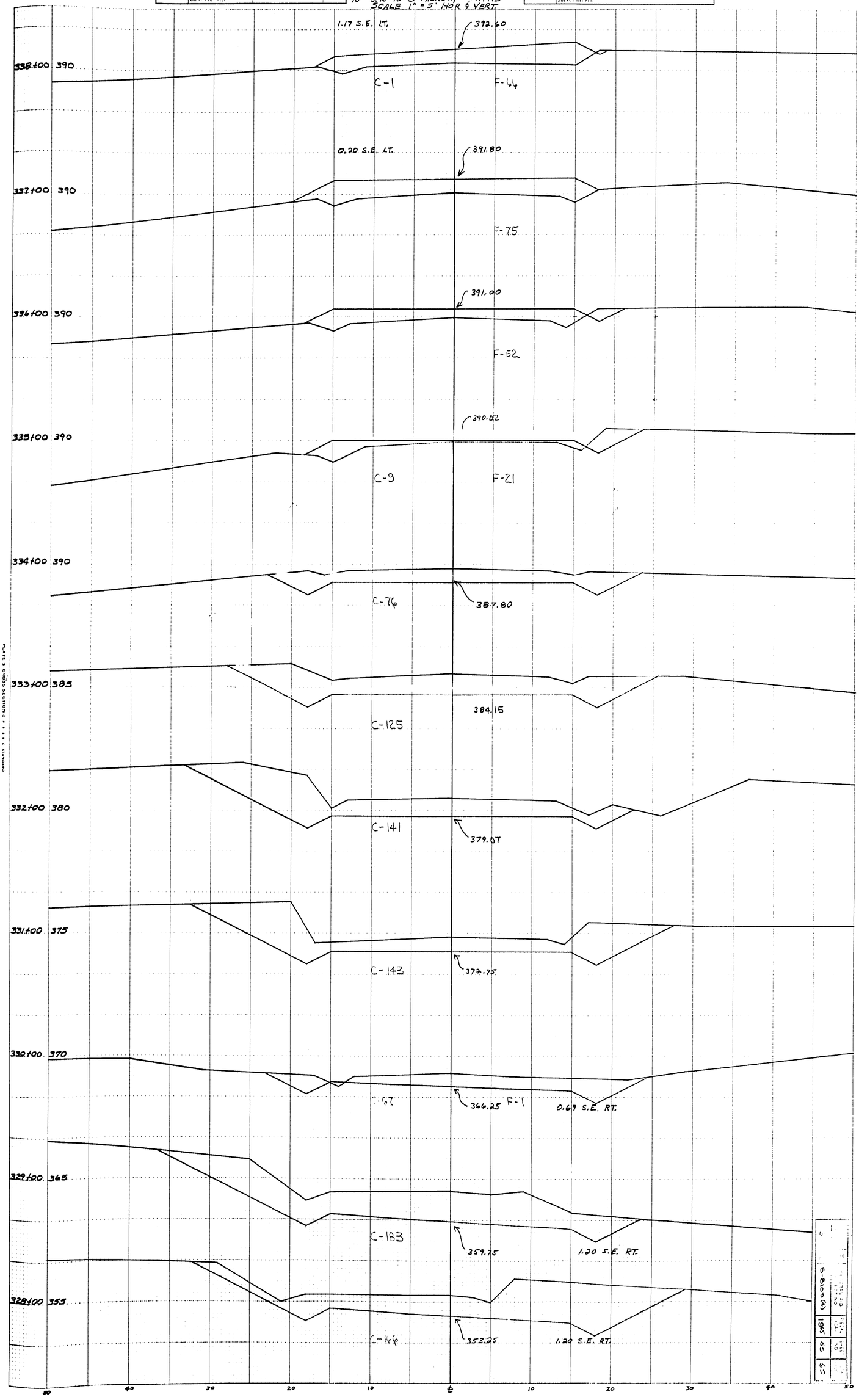



PLATE 3 CROSS SECTIONS

| ORIGINAL SURVEY | | BY | DATE |
|---|---|---|---|
| | SURVEYED | | |
| | PLOTTED | | |
| | TEMPLATE | | |
| NOTE BOOK | AREAS | | |
| NO | AREAS CHECKED | | |

CROSS SECTIONS PART 2
SURVEY C.S. 973 — ROUTE S-8109
FAYETTE CO.
FROM KIRK ROAD
TO SR 15 @ HICKORY WITHE
SCALE 1" = 5' FOR & VERT

| FINAL SURVEY | | BY | DATE |
|---|---|---|---|
| | SURVEYED | | |
| | PLOTTED | | |
| NOTE BOOK | TEMPLATE | | |
| NO | AREAS | | |
| | AREAS CHECKED | | |

| PLANS | FILE | H |
|---|---|---|
| DWG. | NO. | 7 |

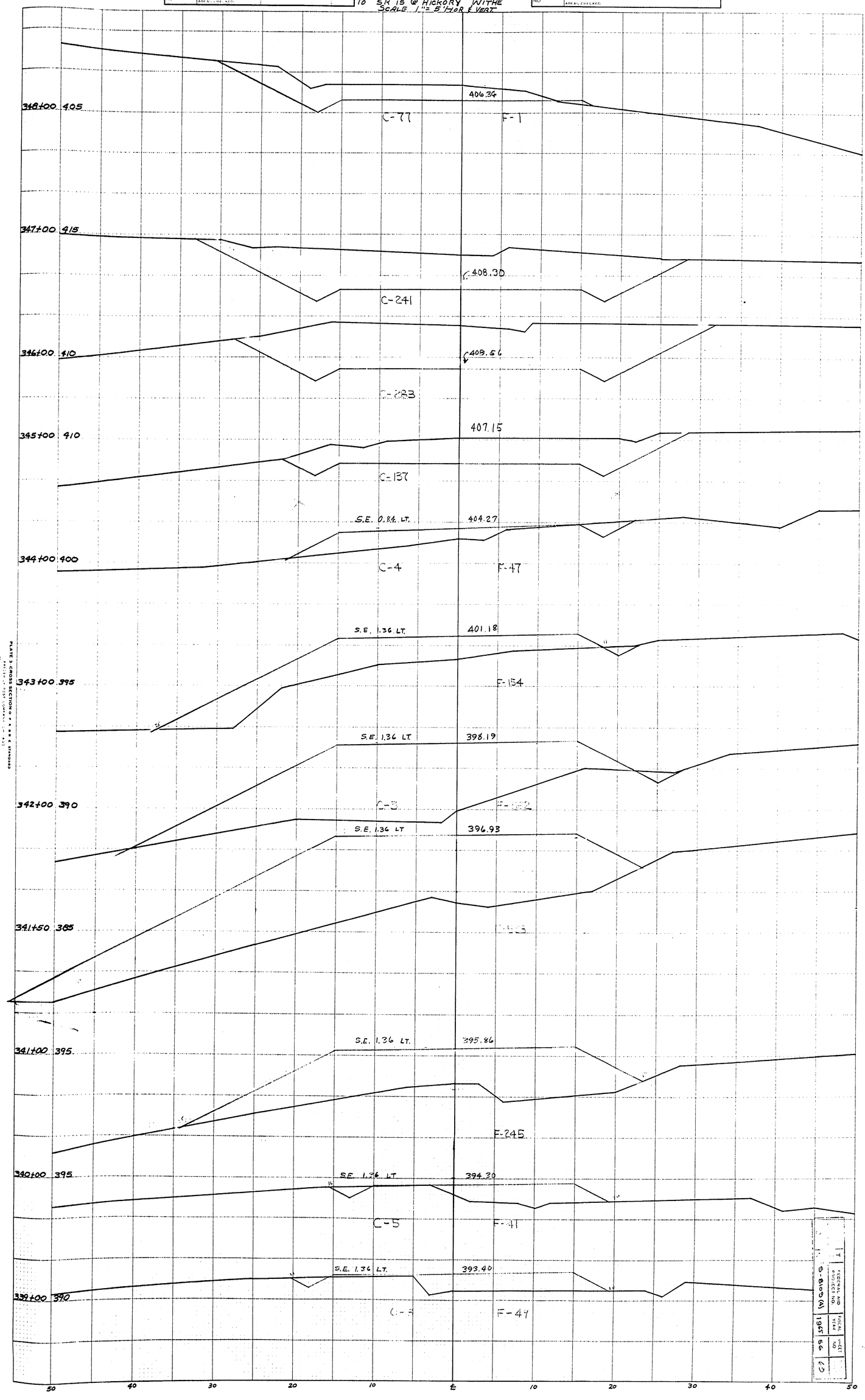



PLATE 3 CROSS SECTION # & & & STANDARD

| | | |
|---|---|---|
| S-8109(8) | FEDERAL AID PROJECT NO | |
| 1967 | FISCAL YEAR | |
| 69 | SHEET NO | |
| 63 | | |

| ORIGINAL SURVEY | | BY | DATE |
|---|---|---|---|
| | SURVEYED | | |
| | PLOTTED | | |
| NOTE BOOK | TEMPLATE | | |
| NO | AREAS | | |
| | AREAS CHECKED | | |

CROSS SECTIONS PART 2
SURVEY C.S. 973 ROUTE S-8109
FAYETTE CO.
FROM: KIRK ROAD
TO SR 15 @ HICKORY WITHE
SCALE 1" = 5' HOR & VERT.

| FINAL SURVEY | | BY | DATE |
|---|---|---|---|
| | SURVEYED | | |
| | PLOTTED | WHS | |
| NOTE BOOK | TEMPLATE | | |
| NO | AREAS | | |
| | AREAS CHECKED | | |

| DIVN. | NO. | 7 |
|---|---|---|
| PLANS | FILE | 11 |

SHEET NO. 36

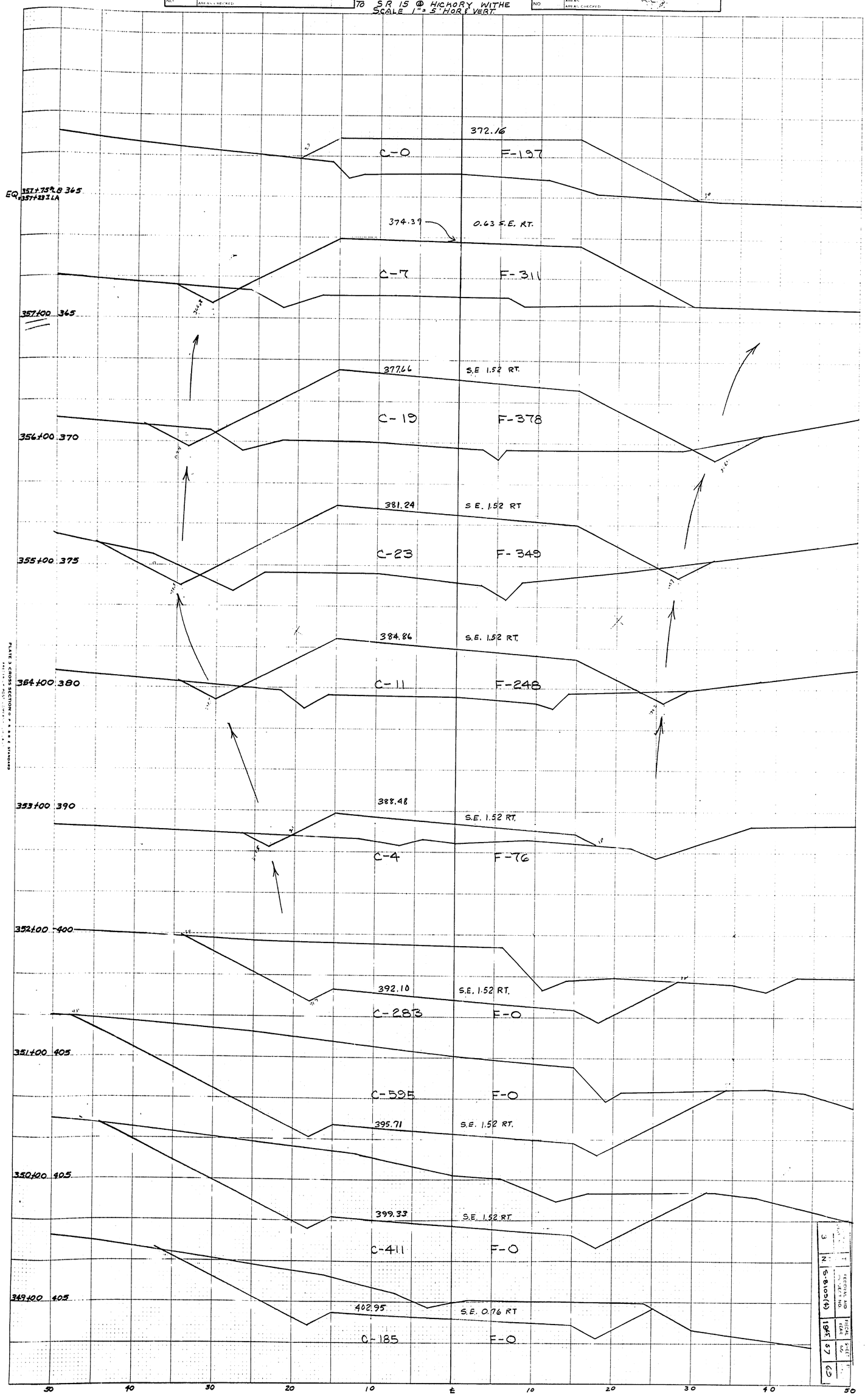



PLATE 3 CROSS SECTION O F A R E A STANDARD

| | | | |
|---|---|---|---|
| J | | | |
| N | | SECTION NO. PROJECT NO. | S-8109(6) |
| | | FISCAL YEAR | 1995 |
| | | SHEET NO. | 67 |
| | | | 69 |

| ORIGINAL SURVEY | | BY | DATE |
|---|---|---|---|
| NOTE BOOK NO. | SURVEYED<br>PLOTTED<br>TEMPLATE<br>AREAS<br>AREAS CHECKED | | |

CROSS SECTIONS PART 2
SURVEY CS 973 ROUTE S-8109
FAYETTE CO
FROM: KIRK ROAD
TO: S.R. 15 @ HICKORY WITHE
SCALE 1" = 5' HOR & VERT

| FINAL SURVEY | | BY | DATE |
|---|---|---|---|
| NOTE BOOK NO. | SURVEYED<br>PLOTTED<br>TEMPLATE<br>AREAS<br>AREAS CHECKED | KJY | |

SHEET NO. 3.7

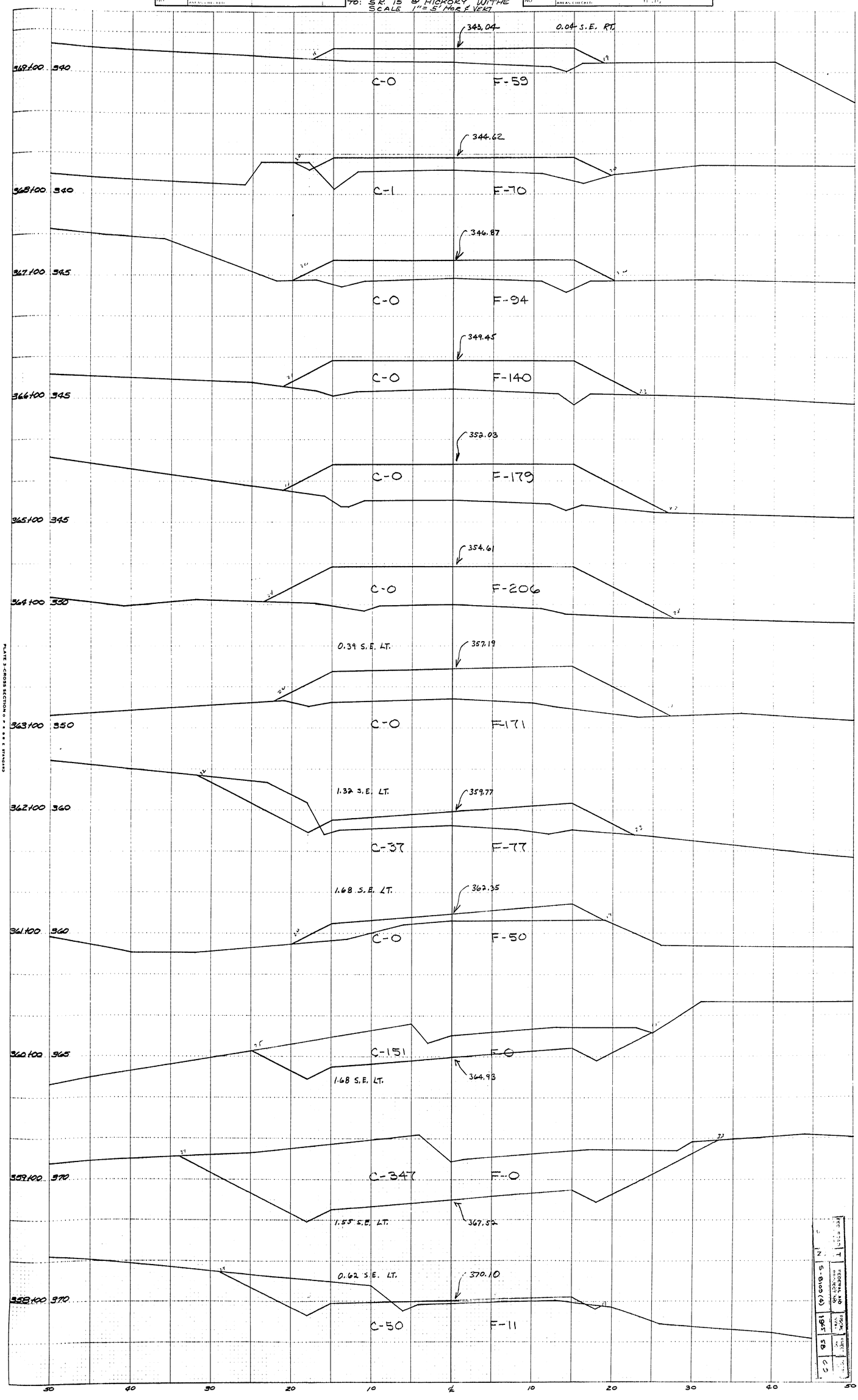



PLATE 3 - CROSS SECTION O F R B R E STANDARD

| FEDERAL AID PROJECT NO. | | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|
| S-8109(6) | | 185 | 58 |

CS

CROSS SECTIONS PART 2
SUEVEY CS. 973 ROUTE S-8109
FAYETTE CO.
KIRK ROAD
FROM: 3.8 15 @ HICKORY WITHE
TO:
SCALE 1"=5' HOR & VERT.
ORIGINAL SURVEY
FINAL SURVEY
W.C.S.
SHEET NO 38
S.E. 0.44 RT.
F-25
333.95
C-3
380+00 330
S.E. 0.23 RT.
F-0
335.23
C-144
379+00 335
F-38
336.51
C-9
378+00 335
F-63
337.67
C-9
377+00 340
F-106
338.59
C-0
376+00 340
S.E. 0.23 RT.
F-73
339.29
C-8
375+00 340
S.E. 0.40 RT.
F-88
339.86
C-7
374+00 340
S.E. 0.40 RT.
F-85
340.43
C-6
373+00 340
S.E. 0.40 RT.
F-91
341.00
C-7
372+00 340
S.E. 0.40 RT.
F-106
341.57
C-0
371+00 340
S.E. 0.94 RT.
F-65
342.14
C-0
370+00 340
FEDERAL AID PROJECT NO
S-8109(4)
FISCAL YEAR
1965
SHEET NO
50
49
PLATE 3 CROSS SECTION

| ORIGINAL SURVEY | | BY | DATE |
|---|---|---|---|
| NOTE BOOK NO | SURVEYED | | |
| | PLOTTED | | |
| | TEMPLATE | | |
| | AREAS | | |
| | AREAS CHECKED | | |

CROSS SECTIONS PART 2
SURVEY CS.973 ROUTE S-8109
FAYETTE CO.
FROM: KIRK ROAD
TO: S.R.15 @ HICKORY WITHE
SCALE 1" = 5' HOR & VERT.

| FINAL SURVEY | | BY | DATE |
|---|---|---|---|
| NOTE BOOK NO | SURVEYED | | |
| | PLOTTED | | |
| | TEMPLATE | | |
| | AREAS | | |
| | AREAS CHECKED | | |

SHEET No. 39

TENN. STATE DP. WAYS
Plans File 11
Dwn. 7

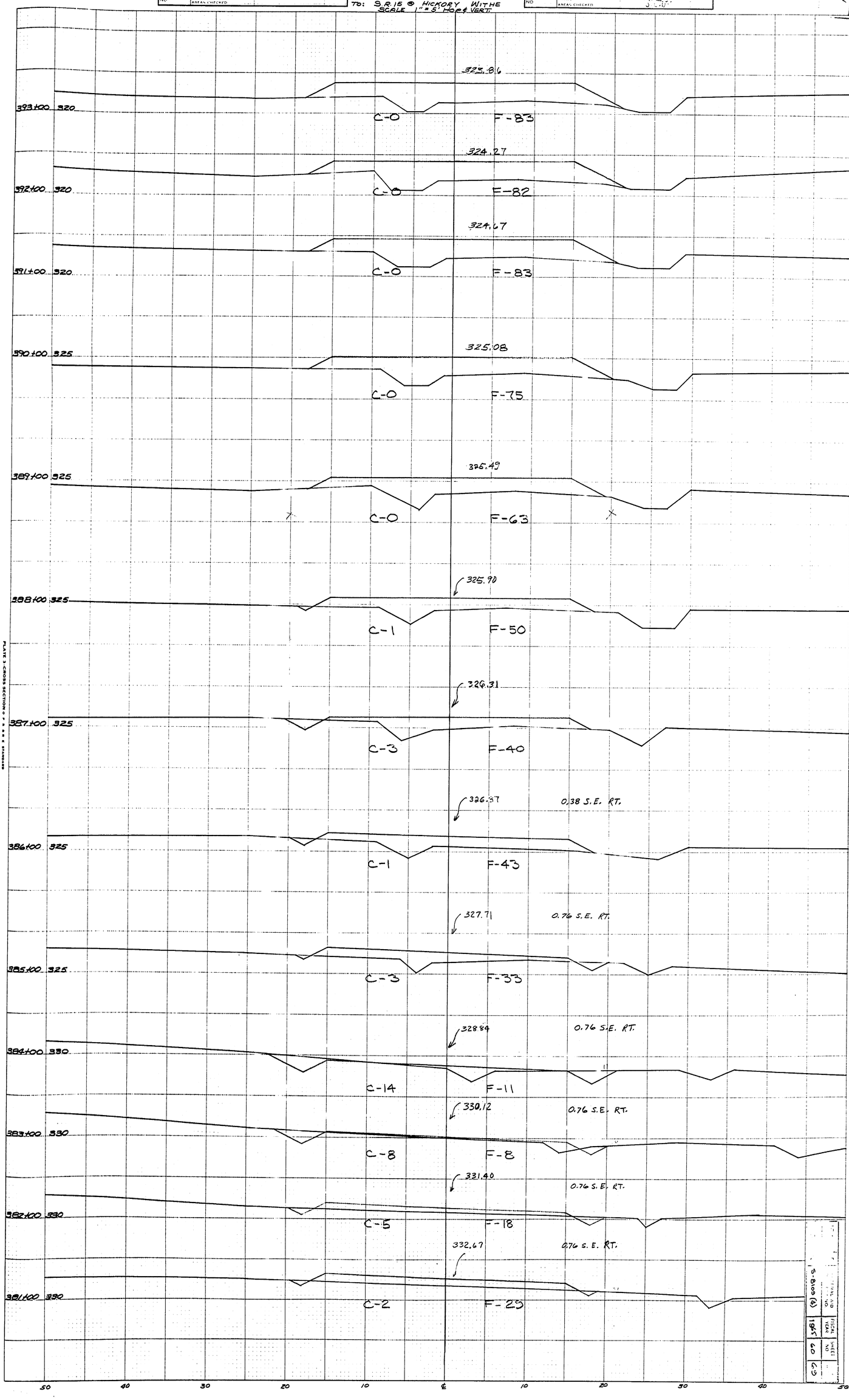



PLATE 3-CROSS SECTIONS
FRICKER-POST COMPANY

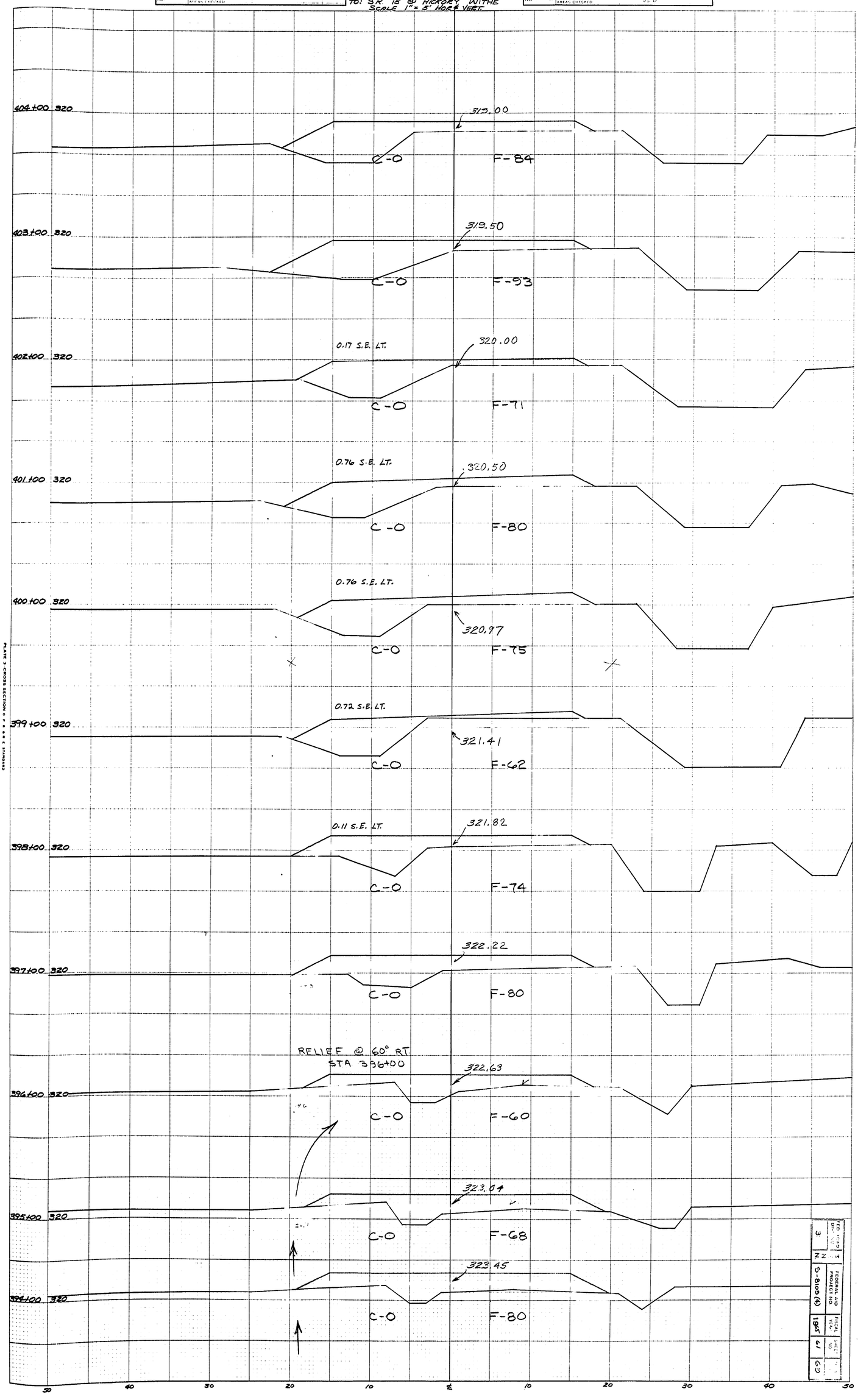
| S-8109 (4) | TENN. ROD NO. |
|---|---|
| 1965 | FISCAL YEAR |
| 69 | SHEET NO. |
| 69 | |

| ORIGINAL SURVEY | | BY | DATE |
|---|---|---|---|
| NOTE BOOK NO | SURVEYED | | |
| | PLOTTED | | |
| | TEMPLATE | | |
| | AREAS | | |
| | AREAS CHECKED | | |

CROSS SECTIONS PART 2
SURVEY CS. 973 ROUTE S-8109
FAYETTE CO.
FROM: KIRK ROAD
TO: SR 15 @ HICKORY WITHE
SCALE 1" = 5' HORZ & VERT.

| FINAL SURVEY | | BY | DATE |
|---|---|---|---|
| NOTE BOOK NO | SURVEYED | | |
| | PLOTTED | | |
| | TEMPLATE | KJY | |
| | AREAS | | |
| | AREAS CHECKED | JLD | |

SHEET NO. 40




| FED. ROAD DIST. NO. | STATE | FEDERAL AID PROJECT NO. |
|---|---|---|
| 3 | N | S-8109 (6) |

| FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---|---|---|
| 1965 | 61 | 63 |

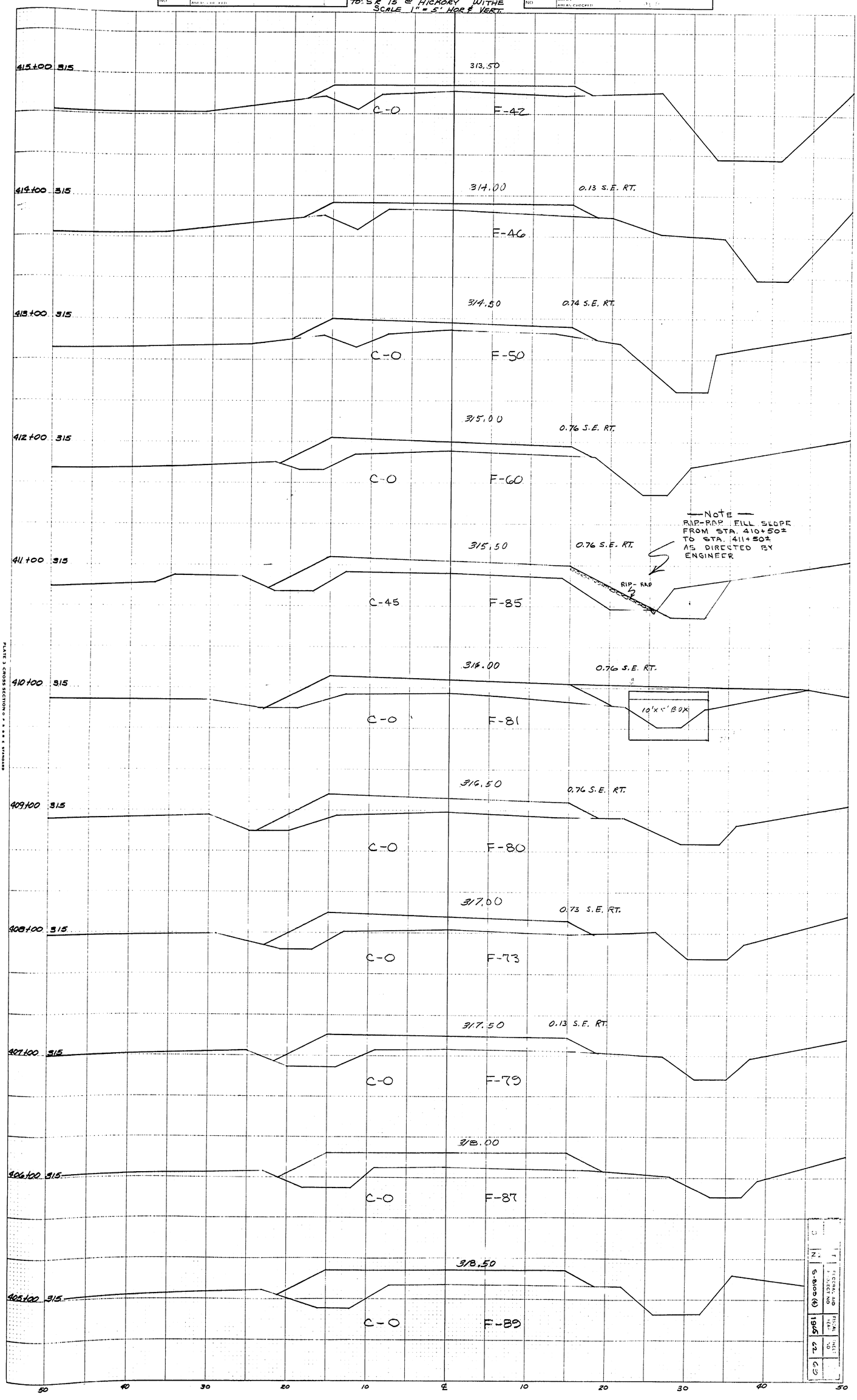
PLATE 3 CROSS SECTION O F & B & E STANDARD

| ORIGINAL SURVEY | | BY | DATE |
|---|---|---|---|
| | SURVEYED | | |
| | PLOTTED | | |
| NOTE BOOK | TEMPLATE | | |
| NO | AREAS | | |
| | AREAS CHECKED | | |

CROSS SECTIONS PART 2
SURVEY CS 973 ROUTE S-8109
FAYETTE CO.
FROM: KIRK ROAD
TO: S.R. 15 @ HICKORY WITHE
SCALE 1" = 5' HOR & VERT.

| FINAL SURVEY | | BY | DATE |
|---|---|---|---|
| | SURVEYED | | |
| | PLOTTED | | |
| NOTE BOOK | TEMPLATE | KJY | |
| NO | AREAS | | |
| | AREAS CHECKED | | |

SHEET NO 41




| | | | |
|---|---|---|---|
| N | F | FEDERAL AID PROJECT NO | FISCAL YEAR |
| S-8109 (4) | | 1965 | SHEET NO |
| 62 | | 63 | |

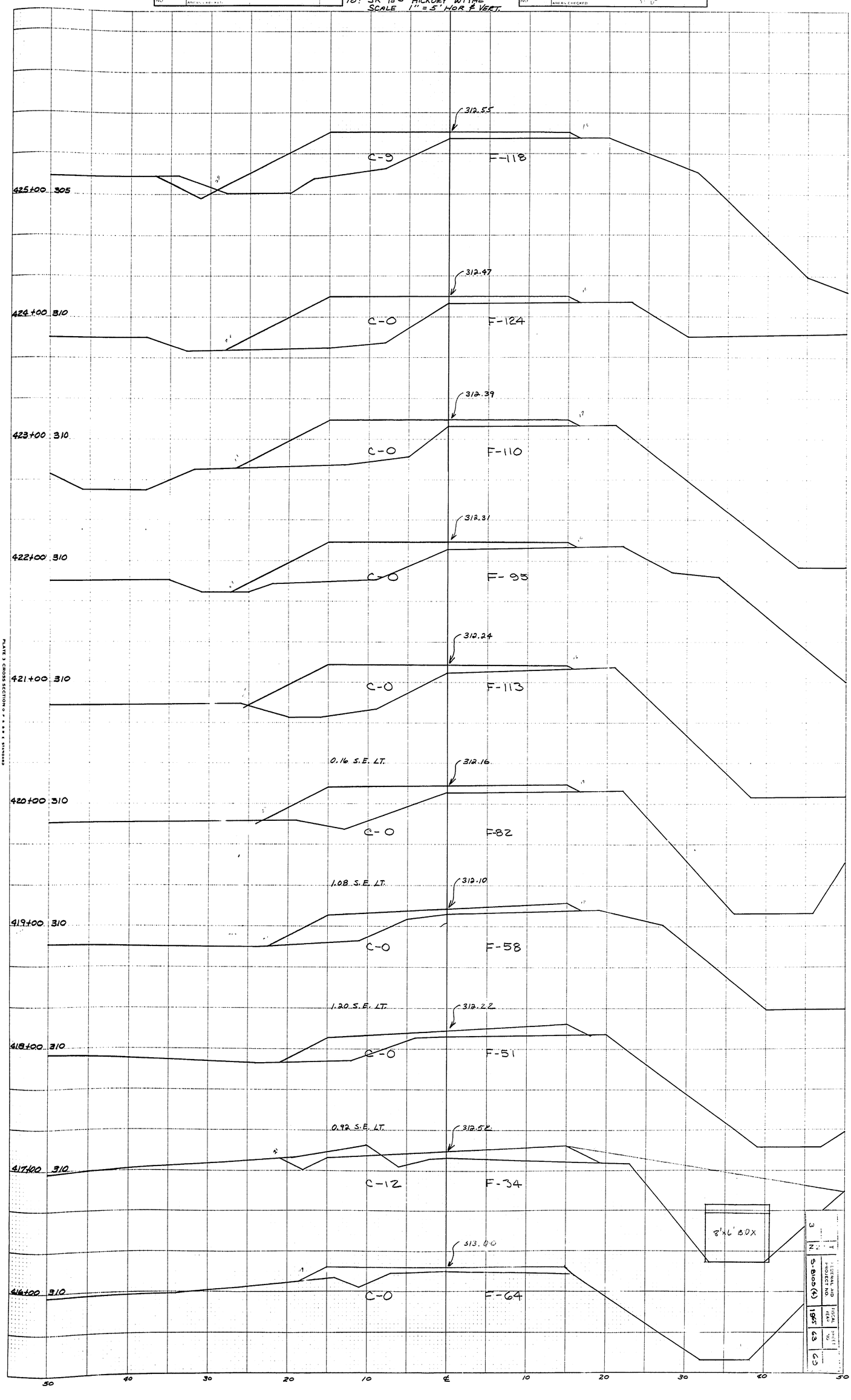
PLATE 3 CROSS SECTION O.F. A.B.R.E. STANDARD

SHEET NO. 42

| ORIGINAL SURVEY | | BY | DATE |
|---|---|---|---|
| NOTE BOOK | SURVEYED | | |
| NO | PLOTTED | | |
| | TEMPLATE | | |
| | AREAS | | |
| | AREAS CHECKED | | |

CROSS SECTIONS PART 2
SURVEY CS. 973 ROUTE S-8109
FAYETTE CO.
FROM: KIRK ROAD
TO: SR 15 @ HICKORY WITHE
SCALE 1" = 5' HOR & VERT.

| FINAL SURVEY | | BY | DATE |
|---|---|---|---|
| NOTE BOOK | SURVEYED | | |
| NO | PLOTTED | | |
| | TEMPLATE | | |
| | AREAS | KJY | |
| | AREAS CHECKED | | |




| | | | |
|---|---|---|---|
| 3 | | | |
| N. | S-8109(4) | FEDERAL AID PROJECT NO. | |
| 1965 | 63 | FISCAL YEAR | SHEET NO. |
| 63 | | | |

PLATE 3 CROSS SECTION O F R & R STANDARD

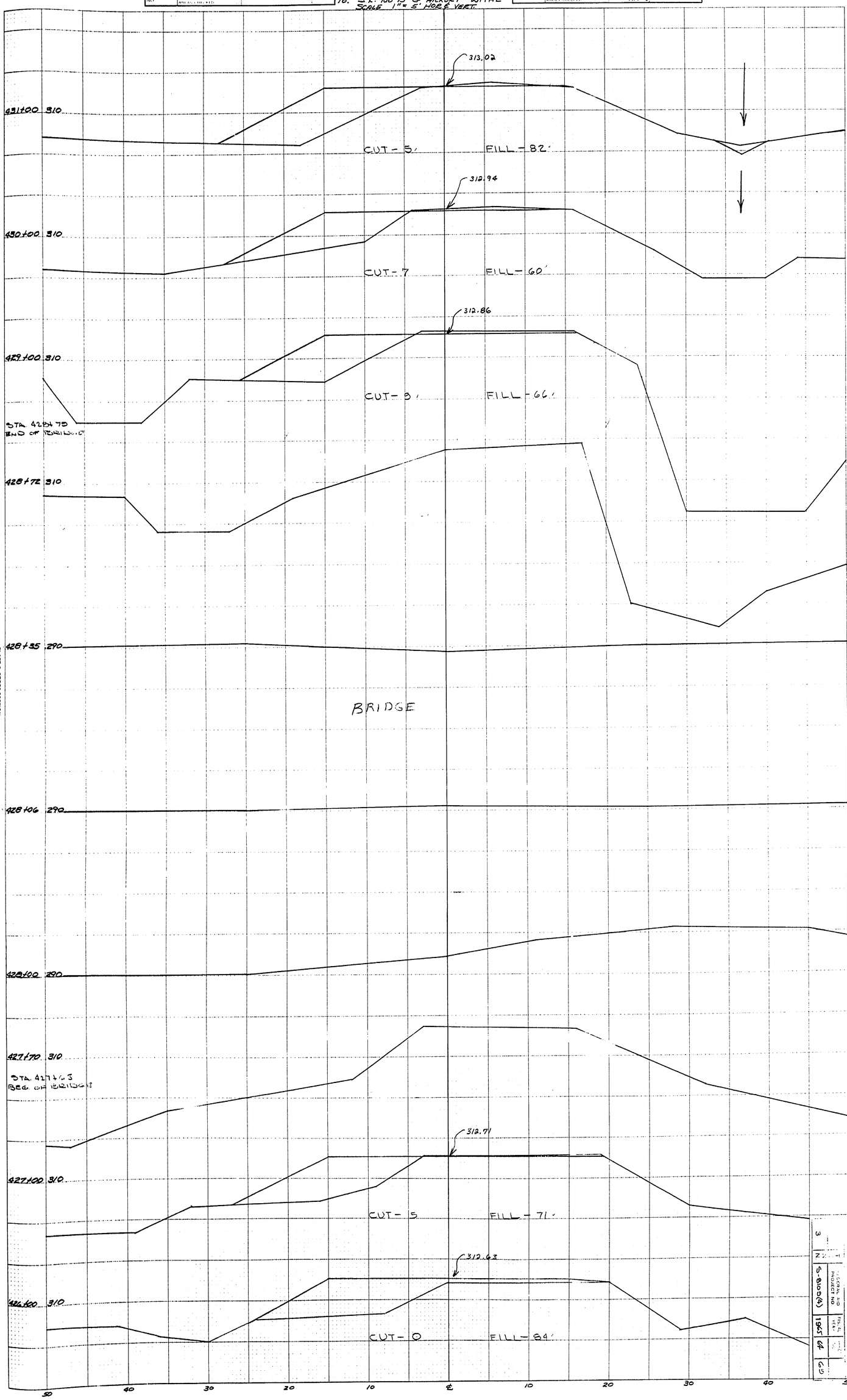
| ORIGINAL SURVEY | | BY | DATE |
|---|---|---|---|
| NOTE BOOK | SURVEYED | | |
| NO. | PLOTTED | | |
| | TEMPLATE | | |
| | AREAS | | |
| | AREAS CHECKED | | |

CROSS SECTIONS PART 2
SURVEY C.S. 973 ROUTE S-8109
FAYETTE CO.
FROM: KIER ROAD
TO: S.R. NO 15 @ HIGGEY WITHE
SCALE 1" = 5' HORZ & VERT.

| FINAL SURVEY | | BY | DATE |
|---|---|---|---|
| NOTE BOOK | SURVEYED | | |
| NO | PLOTTED | | |
| | TEMPLATE | KJY | |
| | AREAS | | |
| | AREAS CHECKED | M.L.S. | |

SHEET NO 49

PLANS NO. 7 DIM. H




| | | | |
|---|---|---|---|
| 3 | N | | |
| S-8109(4) | | FEDERAL AID PROJECT NO. | |
| 1965 | 64 | YEAR | |
| | 65 | | |

PLATE 3 CROSS SECTIONS

| ORIGINAL SURVEY | | BY | DATE |
|---|---|---|---|
| NOTE BOOK | SURVEYED | | |
| | PLOTTED | | |
| | TEMPLATE | | |
| NO | AREAS | | |
| | AREAS CHECKED | | |

CROSS SECTIONS PART 2
SURVEY CS 973 ROUTE S-8109
FAYETTE CO.
FROM: KIRK ROAD
TO: S.R. 15 @ HICKORY WITHE
SCALE 1"=5' HOR & VERT.

| FINAL SURVEY | | BY | DATE |
|---|---|---|---|
| NOTE BOOK | SURVEYED | | |
| | PLOTTED | | |
| | TEMPLATE | KJY | |
| NO | AREAS | | |
| | AREAS CHECKED | | |

SHEET NO 44

| DIVN. | NO. |
|---|---|
| PLANS | 7 |
| FILE | H |

432+00 310
313.88 0.76 S.E. RT.
CUT-0 FILL-156'

441+00 310
313.80 0.76 S.E. RT.
CUT-0 FILL-163'

440+00 310
313.72 0.76 S.E. RT.
CUT-0 FILL-168'

439+00 310
313.65 0.76 S.E. RT.
CUT-0 FILL-187'

438+00 310
313.57 0.76 S.E. RT.
CUT-0 FILL-151'

437+00 310
313.49 0.76 S.E. RT.
CUT-0 FILL-100'

436+00 310
313.41 0.76 S.E. RT.
CUT-10' FILL-118'

435+00 310
313.33 0.24 S.E. RT.
CUT-14' FILL-100'

434+00 310
313.25
CUT-0 FILL-87'

433+00 310
313.18
CUT-8 FILL-71'

432+00 310
313.10
CUT-8 FILL-86'

50 40 30 20 10 ℄ 10 20 30 40 50

PLATE 3 CROSS SECTION O F & B & E STANDARD

| FEDERAL AID PROJECT NO | FISCAL YEAR | SHEET NO |
|---|---|---|
| S-8109(8) | 1965 | 65 |
| | | 63 |

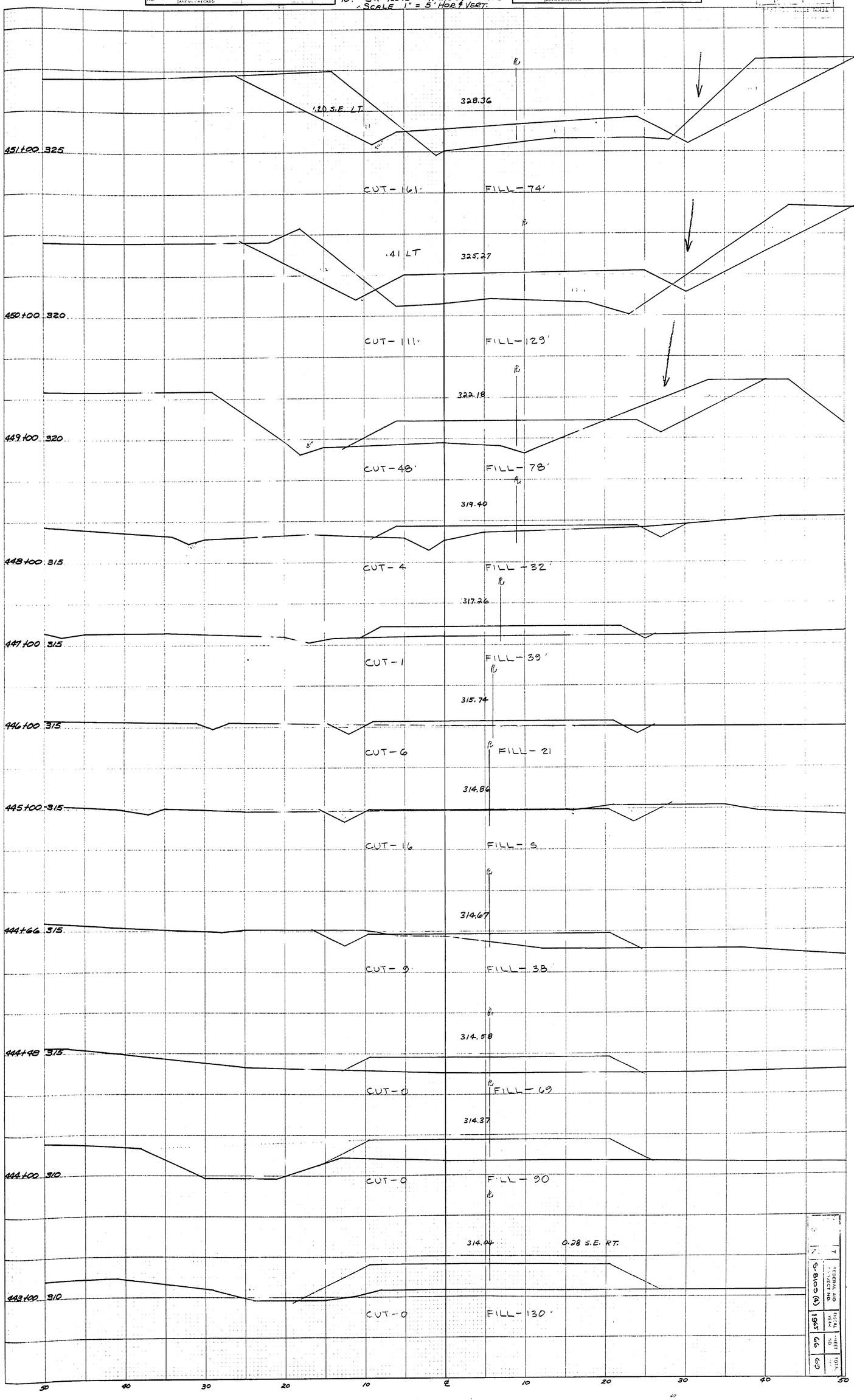
J
N
T

| ORIGINAL SURVEY | | BY | DATE |
|---|---|---|---|
| NOTE BOOK | SURVEYED | | |
| NO | PLOTTED | | |
| | TEMPLATE | | |
| | AREAS | | |
| | AREAS CHECKED | | |

CROSS SECTIONS PART 2
SURVEY CS 973 ROUTE S-8109
FAYETTE CO.
FROM: KIRK ROAD
TO: SR No 15 @ HICKORY WITHE
SCALE 1" = 5' HOR & VERT.

| FINAL SURVEY | | BY | DATE |
|---|---|---|---|
| NOTE BOOK | SURVEYED | KJY. | |
| NO | PLOTTED | | |
| | TEMPLATE | | |
| | AREAS | | |
| | AREAS CHECKED | | |

SHEET No 45




| FEDERAL AID PROJECT NO. | TOTAL SHEETS | SHEET NO. | TOTAL |
|---|---|---|---|
| S-8109(8) | 1965 | 66 | 69 |

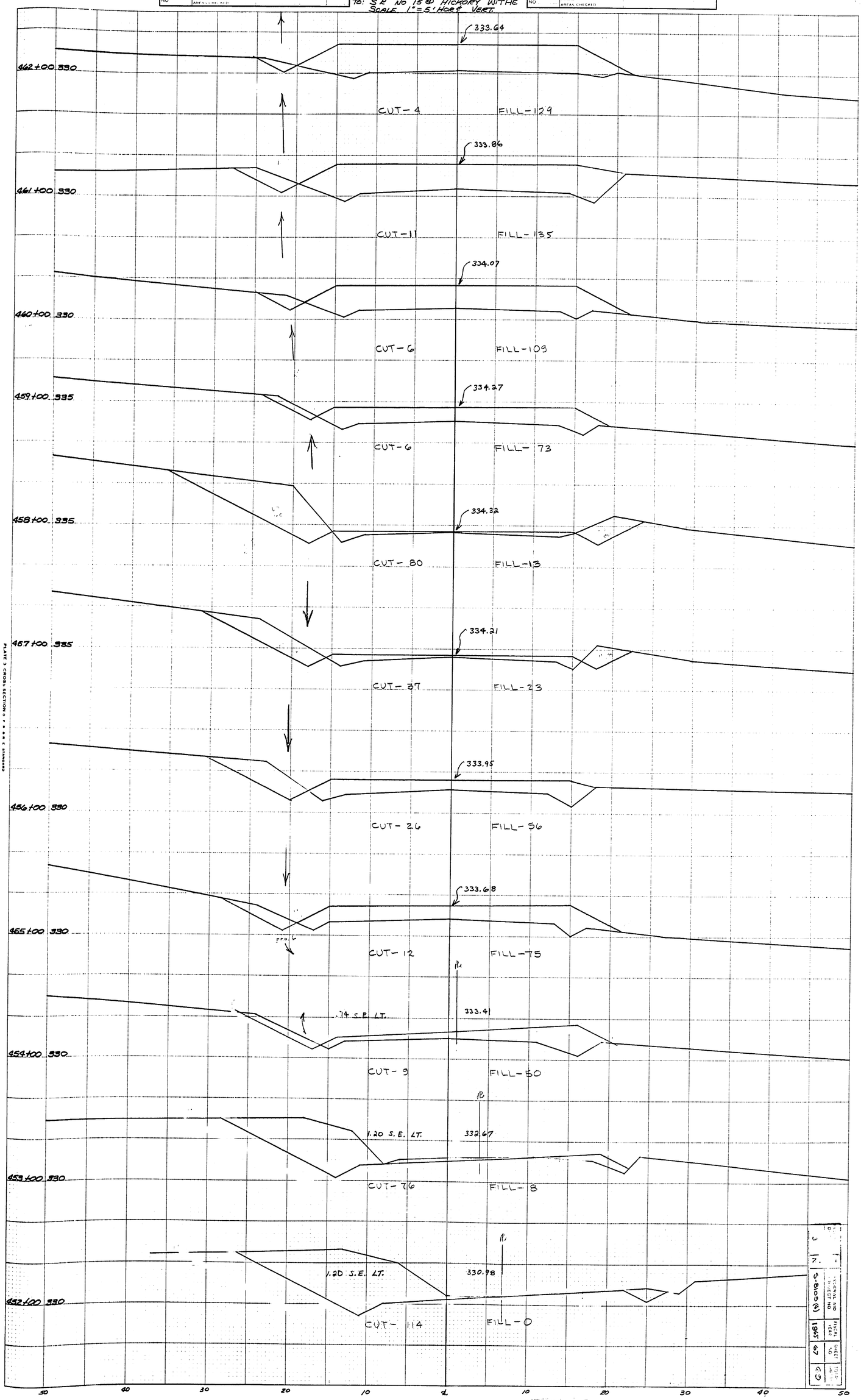
PLATE 3 CROSS SECTION O F & B & E STANDARD

| ORIGINAL SURVEY | | BY | DATE |
|---|---|---|---|
| NOTE BOOK | SURVEYED | | |
| NO | PLOTTED | | |
| | TEMPLATE | | |
| | AREAS | | |
| | AREAS CHECKED | | |

CROSS SECTIONS PART 2
SURVEY CS 973 ROUTE S-8109
FAYETTE Co.
FROM: KIRK ROAD
TO: S.R. NO 15 @ HICKORY WITHE
SCALE 1"=5' HORZ. VERT.

| FINAL SURVEY | | BY | DATE |
|---|---|---|---|
| NOTE BOOK | SURVEYED | | |
| NO | PLOTTED | | |
| | TEMPLATE | | |
| | AREAS | KJY | |
| | AREAS CHECKED | | |

SHEET NO. 46




| | | | |
|---|---|---|---|
| 3 | N. | S-8109(8) | FISCAL AND PROJECT NO |
| | | 1965 | FISCAL YEAR |
| | | 67 | SHEET NO |
| | | 67 | TOTAL SHEETS |

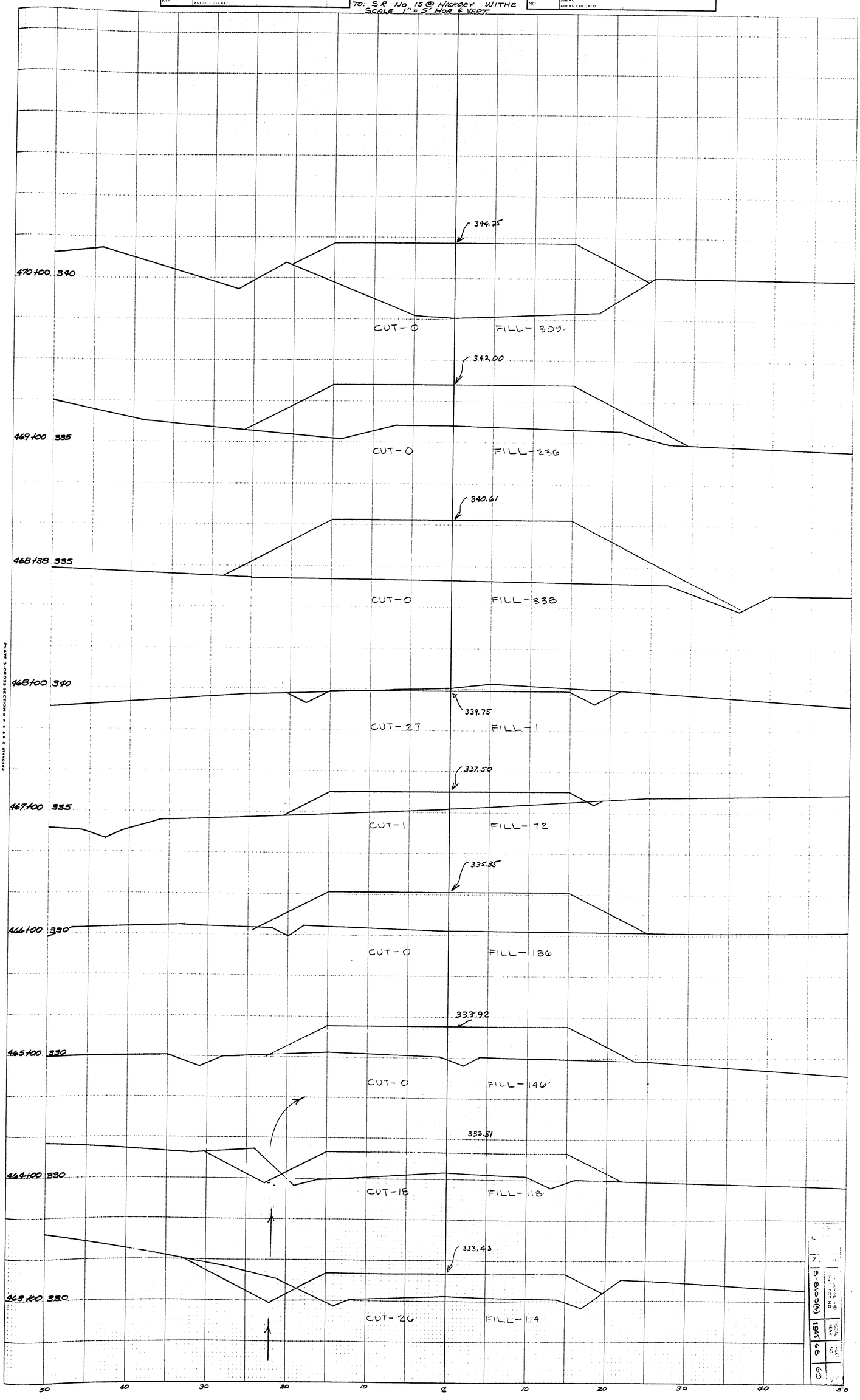
PLATE 3 CROSS SECTION O F R R E STANDARD

| ORIGINAL SURVEY | | BY | DATE |
|---|---|---|---|
| NOTE BOOK | SURVEYED | | |
| NO | PLOTTED | | |
| | TEMPLATE | | |
| | AREAS | | |
| | AREAS CHECKED | | |

CROSS SECTIONS PART 2
SURVEY CS 973 ROUTE S-8109
FAYETTE CO.
FROM: KIRK ROAD
TO: SR NO. 15 @ HICKORY WITHE
SCALE 1" = 5' HOR & VERT.

| FINAL SURVEY | | BY | DATE |
|---|---|---|---|
| NOTE BOOK | CHECKED | KJY | |
| NO | PLOTTED | | |
| | TEMPLATE | | |
| | AREAS | | |
| | AREAS CHECKED | | |

SHEET No. 47




| N | S-8109(4) | 1965 | 66 | 69 |
|---|---|---|---|---|
| | PROJECT NO | YEAR | | |

PLATE 3 - CROSS SECTION O F R & B E STANDARD

| FEDERAL AID PROJECT NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|
| S-8109(4) | 1965 | 60 | 69 |

CROSS SECTIONS PART 2
SURVEY CS 9773 ROUTE S-8109
FAYETTE CO.
FROM: KY 87 ROAD
TO: S & Ho 15 @ HICKORY WITH THE
SCALE 1" = 10' HORZ & VERT

| FINAL SURVEY | |
|---|---|
| NOTE BOOK NO. | SURVEYED / PLOTTED / TEMPLATE / AREAS / AREAS CHECKED |

KJY

| ORIGINAL SURVEY | |
|---|---|
| NOTE BOOK NO. | BY / SURVEYED / PLOTTED / TEMPLATE / AREAS / AREAS CHECKED / DATE |

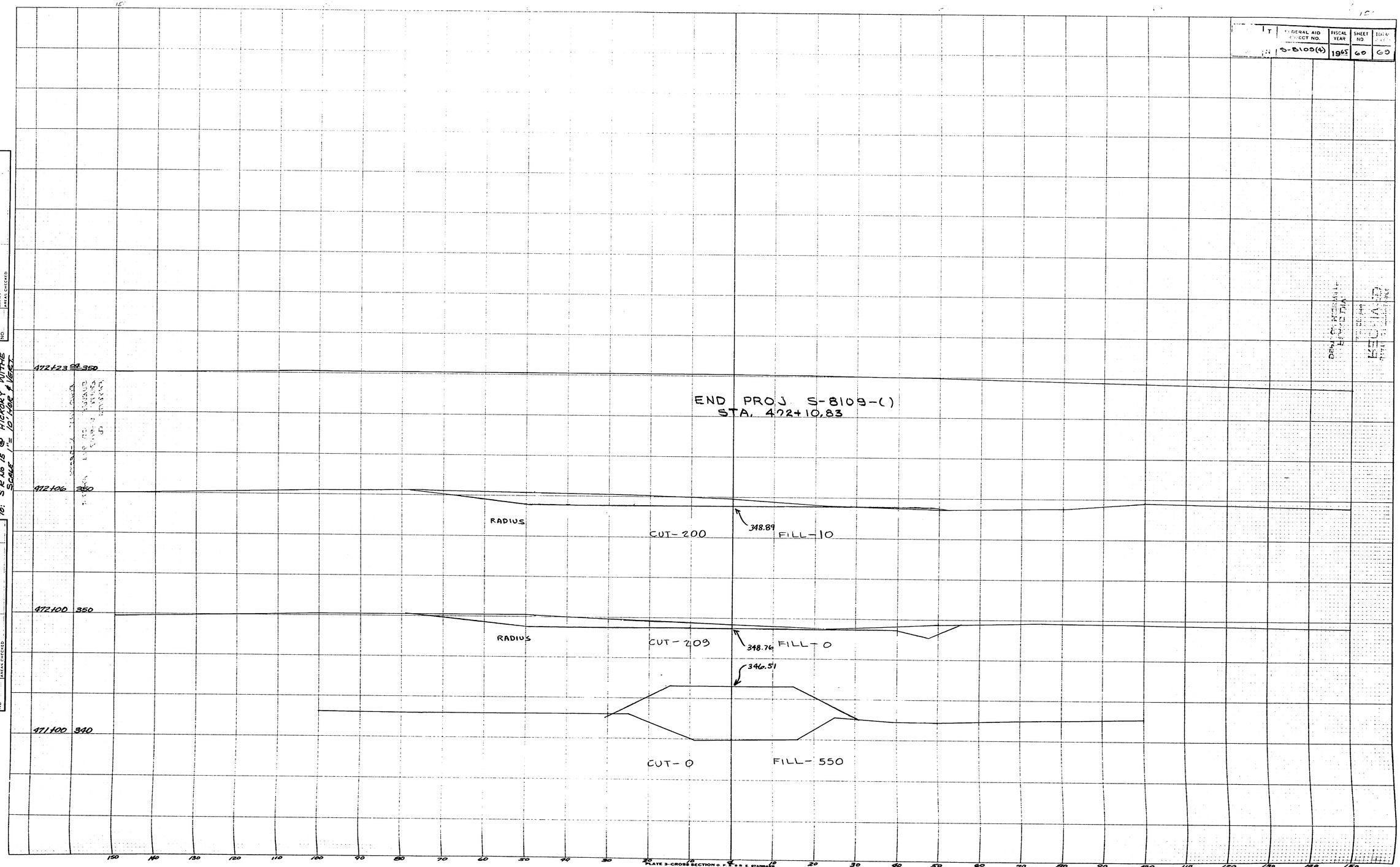



PLATE 3-CROSS SECTION O. P. R. R. E. STANDARD
FREDERICK POST COMPANY CHICAGO