FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
3	TENN.	I-40-5(9)264 CONSTR.	1960	1	372

STATE OF TENNESSEE
DEPARTMENT OF HIGHWAYS

PLAN AND PROFILE OF PROPOSED STATE HIGHWAY

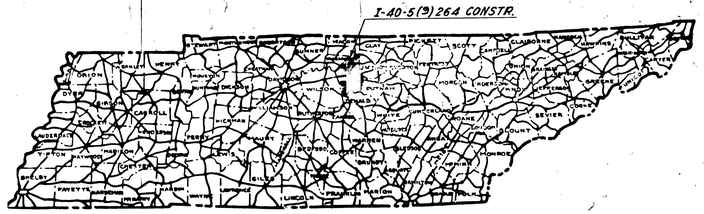
FEDERAL AID PROJECT NO.
I-40-5(9)264

SMITH - PUTNAM COUNTIES

FROM 3.6 MI. EAST OF GORDONSVILLE TO A POINT JUST EAST OF PUTNAM COUNTY LINE

INTERSTATE HIGHWAY NO. 40 F.A.H.S. NO.

SCALES { PLAN, 1 IN. = 100 FT.
PROFILE, HOR. 1 IN. = 100 FT., VERT. 1 IN = 10 FT.



INDEX OF SHEETS

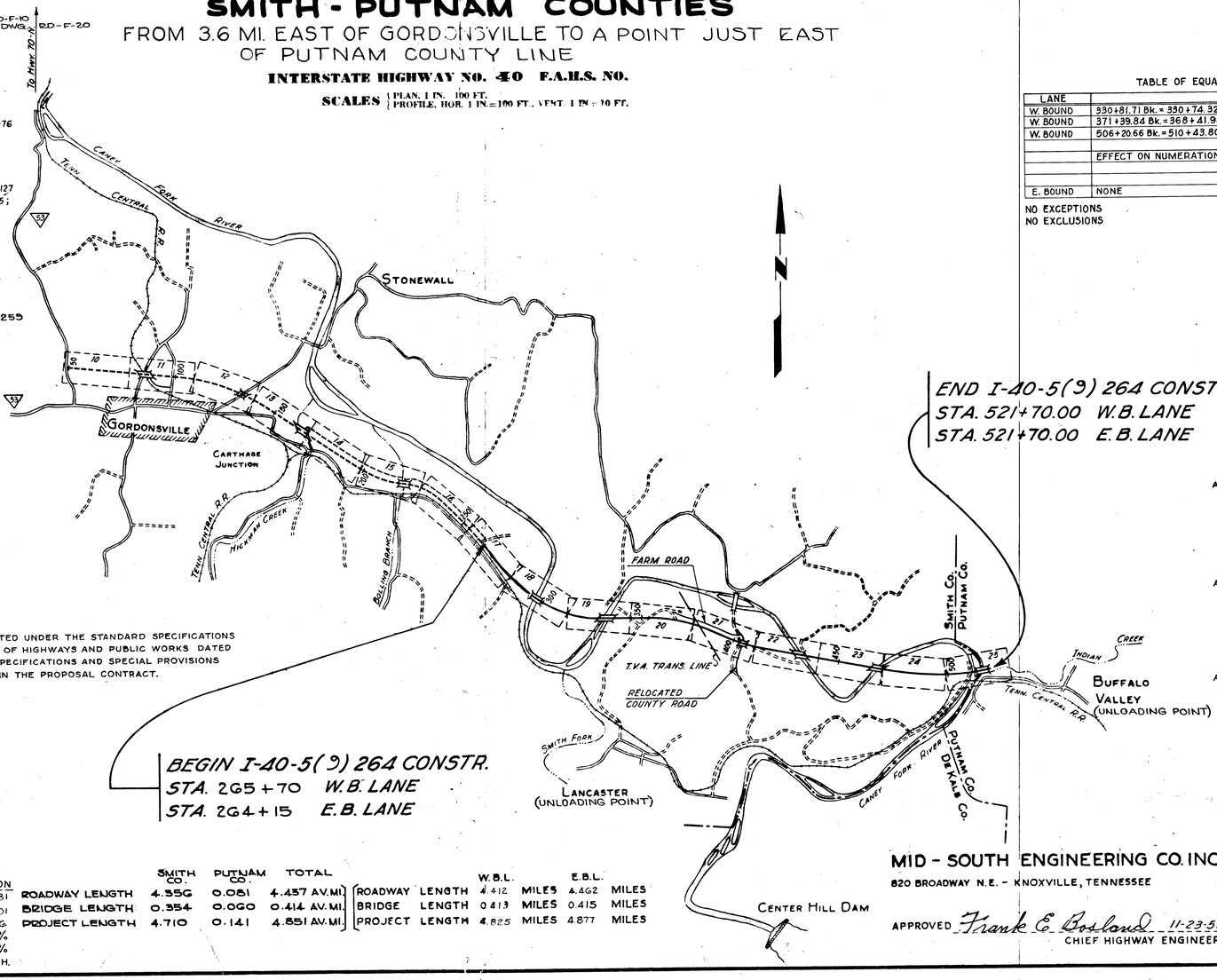
I-40-5(9)264 CONSTR.

FILED IN BRIDGE DIV.

NOTE: SHEETS G-13 NOT INCLUDED IN THESE PLANS.

** SHEET NOS. 14 THRU 25 FILED IN IN-24 UNDER PROJ. NO. I-40-5(8)255

THE CONTRACTOR WILL BE REQUIRED TO MAINTAIN TRAFFIC AT ALL TIMES DURING CONSTRUCTION ON THE COUNTY ROAD THAT CROSSES I-40 @ STA. 400+, ALL COSTS TO BE INCLUDED IN THE UNIT PRICE BID FOR REGULAR CONSTRUCTION ITEMS.



BEGIN I-40-5(9) 264 CONSTR.
STA. 265+70 W.B. LANE
STA. 264+15 E.B. LANE

END I-40-5(9) 264 CONSTR.
STA. 521+70.00 W.B. LANE
STA. 521+70.00 E.B. LANE

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

CONVENTIONAL SIGNS

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
FULL CONTROL OF ACCESS

DESIGN	DESIGNATION
ADT (1955)	2281
ADT (1975)	5201
DHV	6%
D	60%
T	8%
V	70 M.P.H.

	SMITH CO.	PUTNAM CO.	TOTAL		W.B.L.		E.B.L.	
ROADWAY LENGTH	4.356	0.081	4.437 AV.MI.	ROADWAY LENGTH	4.412	MILES	4.462	MILES
BRIDGE LENGTH	0.354	0.060	0.414 AV.MI.	BRIDGE LENGTH	0.413	MILES	0.415	MILES
PROJECT LENGTH	4.710	0.141	4.851 AV.MI.	PROJECT LENGTH	4.825	MILES	4.877	MILES

TABLE OF EQUATIONS

LANE		+	-
W. BOUND	330+81.71 Bk. = 330+74.32 Ahd.	7.39	
W. BOUND	371+39.84 Bk. = 368+41.98 Ahd.	297.86	
W. BOUND	506+20.66 Bk. = 510+43.80 Ahd.		423.14
	EFFECT ON NUMERATION		117.89
E. BOUND	NONE		

NO EXCEPTIONS
NO EXCLUSIONS

APPROVED _____ ENGINEER OF SURVEYS AND DESIGN
DATE _____

APPROVED _____ STATE HIGHWAY ENGINEER
DATE _____

APPROVED _____ COMMISSIONER

DEPARTMENT OF COMMERCE
BUREAU OF PUBLIC ROADS

APPROVED _____
DISTRICT ENGINEER — DATE

MID - SOUTH ENGINEERING CO. INC.
820 BROADWAY N.E. - KNOXVILLE, TENNESSEE

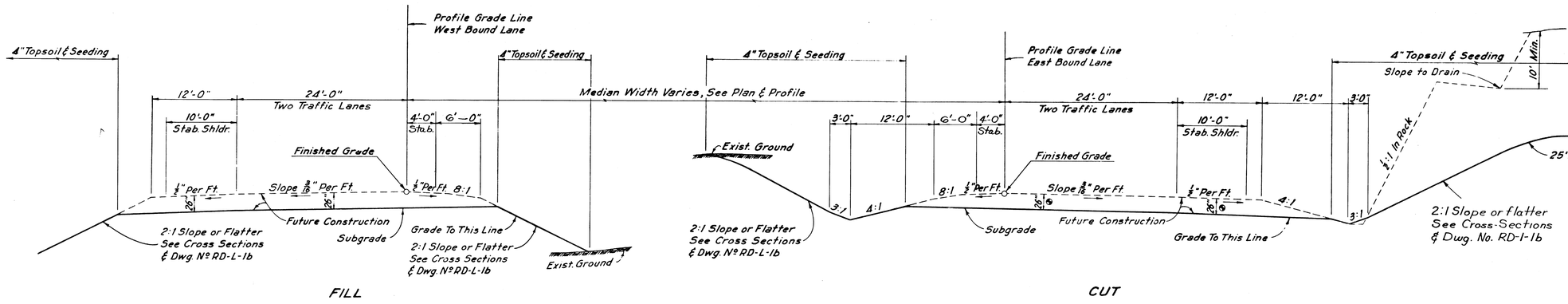
APPROVED Frank E. Gosland 11-23-59
CHIEF HIGHWAY ENGINEER

PRINTED FOR DIV. OFFICE (FOR UTILITIES) 2-24-60

ISSUED: 6-10-60
REVISED: C.O. RAMSEY
SURVEY NO.

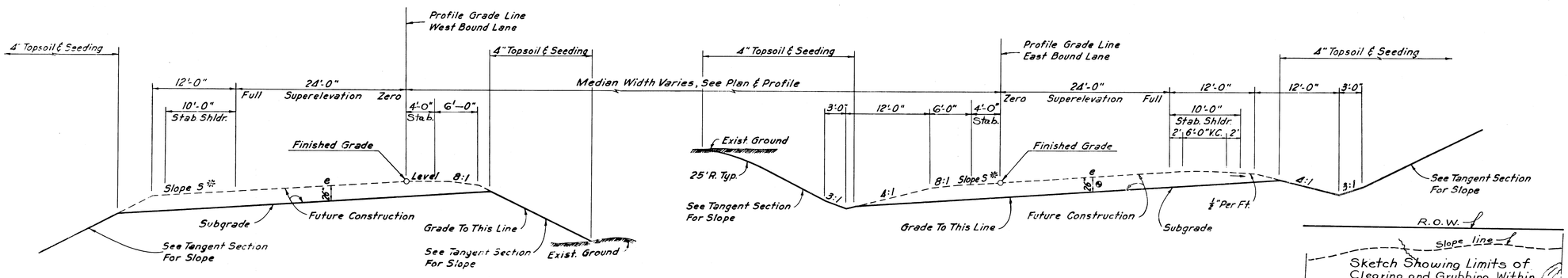
372

MID-SOUTH ENGINEERING CO.					
FED. ROAD DIST.	TENN.	FEDERAL AID PROJECT No.	FISCAL YEAR	SHEET No.	TOTAL SHEETS
3	TENN.	I-40-5(9)264 CONSTR.	1960	2	372



TANGENT SECTION

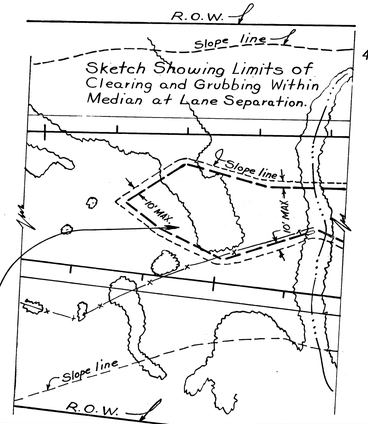
❸ In rock cuts subgrade shall be 21 1/2" below finished grade.



SUPERELEVATED SECTION

✲ Slope 5 = Superelevation Rate (e) where e is greater than normal shoulder slope.

All areas within the R.O.W. to be cleared and grubbed in accordance with Standard Specifications, except no clearing and grubbing required in shaded area.



TOPSOIL & SEEDING

1. The existing topsoil between slope stake points in both cut and fill areas shall be stripped and stockpiled where and as directed by the engineer. The quantity of topsoil to be stripped and stockpiled shall be sufficient to provide a minimum 4" depth over all areas to be seeded. Topsoil from both cut and fill areas will be measured and paid for at the unit price bid for item No. 13-3, Road and Drainage Excavation (Uncl.), per cu. yd., which price shall include all costs of stripping, stockpiling and spreading.
   All newly graded earthen areas on the project that are not to be paved, stabilized or sodded shall be seeded in accordance with the Special Provision regarding Section 500. Prior to seeding, a 4" layer of topsoil shall be placed on all newly graded earthen areas except on cut slopes steeper than 2:1; Newly graded rock slopes that are flatter than 2:1 and other rock areas within interchanges shall be capped with 9" of material meeting the requirements of article 18.03 of the standard specifications plus 4" of topsoil & seeded.
2. ROCK FILL
   Rock Fill shall be constructed from dense and durable rock obtained from roadway excavation or from borrow sources. The rock shall be placed and manipulated in such a manner that the larger stones will be in the exposed section of the slope, with the finer material adjacent to the earth slope. Rock Fill at ends of bridges shall be placed so as not to interfere with driving of piles. See bridge drawings for location of piles.
3. Trenching of rock cuts below the limits shown on the typical section will not be required, however, rock excavation up to a maximum of 12" below subgrade, which is not due to carelessness or overshooting by the contractor, will be measured for payment in accordance with article 13.06 of the specifications. The area below subgrade within the limits of rock excavation as shown on Sheets 1 & 1A shall be backfilled with material meeting the requirements of AASHO classification A-2 or better and have maximum size of 3".

CLEARING & GRUBBING

4. Clearing and grubbing, item 11-1, shall comply with standard specifications of the Tennessee Dept. of Highways, except that in sections where the grading limits are separated by the wide median, payment for clearing and grubbing shall extend to a maximum of 10' outside the grading limits in the median. See sketch.

MID-SOUTH ENGINEERING CO., INC.
820 BROADWAY, N.E. KNOXVILLE, TENNESSEE

TYPICAL SECTIONS INTERSTATE VARIABLE MEDIAN

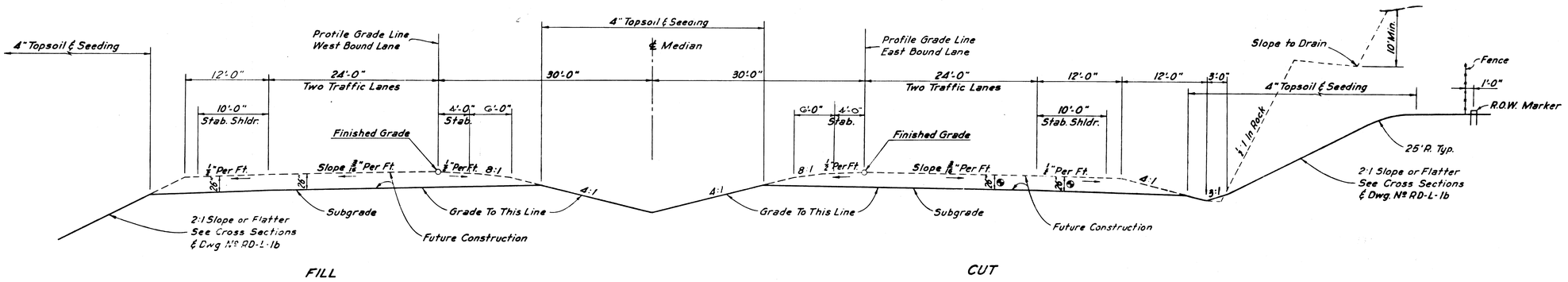
STATE OF TENNESSEE
DEPARTMENT OF HIGHWAYS AND PUBLIC WORKS
NASHVILLE

		DATE
DR.	J.L.M.	3-5-59
CHK'D.	M.L.S.	11-13-59
APP'D.		

TENNESSEE HIGHWAYS
Plans File No. N-
Drwg. No. 50

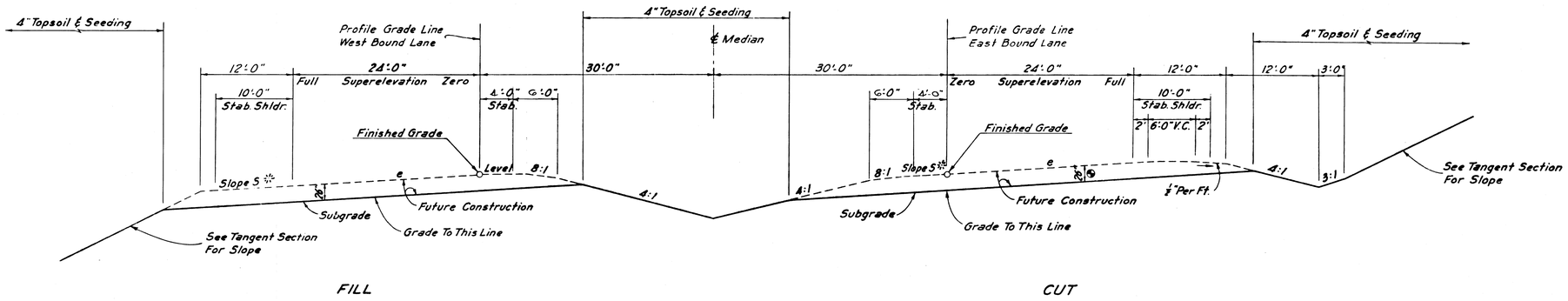
FED. ROAD DIST.	T E N N	FEDERAL AID PROJECT No.	FISCAL YEAR	SHEET No.	TOTAL SHEETS
3		I-40-5(9)264 CONSTR.	1960	2A	372

MID-SOUTH ENGINEERING CO



TANGENT SECTION

FOR NOTES SEE SHEET No. 2



SUPERELEVATED SECTION

✲ Slope S = Superelevation Rate (e) where e is greater than normal shoulder slope.

✲ In rock cuts subgrade shall be 2 1/2" below finished grade.

MID-SOUTH ENGINEERING CO., INC.
820 BROADWAY N.E. KNOXVILLE, TENNESSEE

TYPICAL SECTIONS INTERSTATE 60 FT. MEDIAN

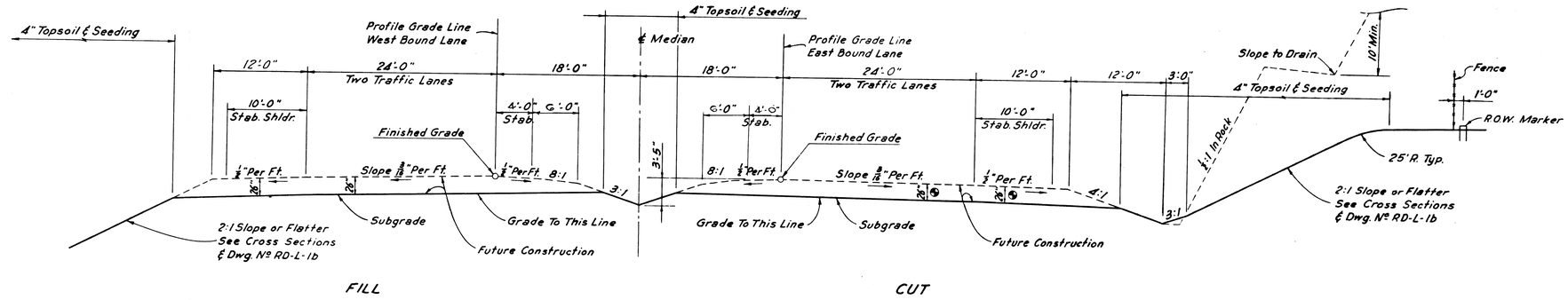
STATE OF TENNESSEE
DEPARTMENT OF HIGHWAYS AND PUBLIC WORKS
NASHVILLE

DR. J.L.M.
CHK'D. M.L.S.
APP'D.

DATE
3-6-59
11-13-59

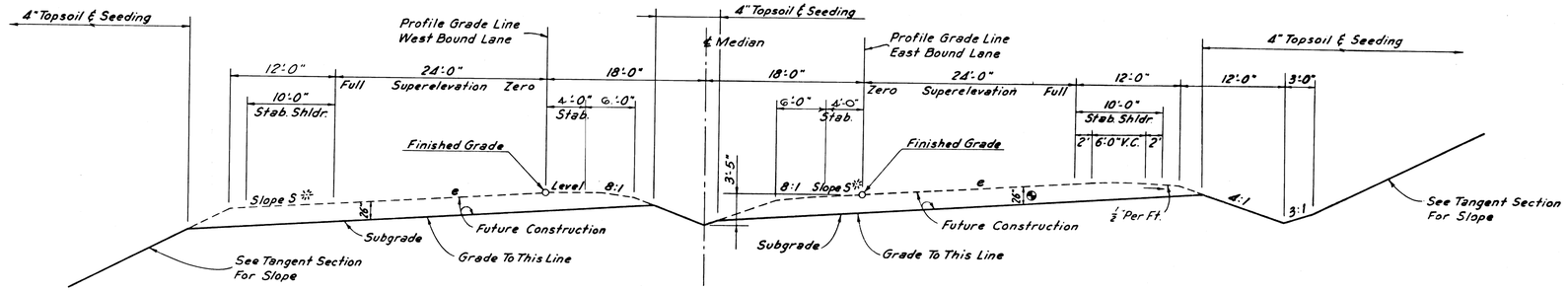
FED. ROAD DIST.	TENN	FEDERAL AID PROJECT No.	FISCAL YEAR	SHEET No.	TOTAL SHEETS
3	TENN	I-40-5(9)264 CONSTR.	1960	2B	372

MID-SOUTH ENGINEERING CO.



TANGENT SECTION

✪ In rock cuts subgrade shall be 2:1½" below finished grade.



SUPERELEVATED SECTION

✲ Slope S = Superelevation Rate (e) where e is greater than normal shoulder slope.

FOR NOTES SEE SHEET No 2

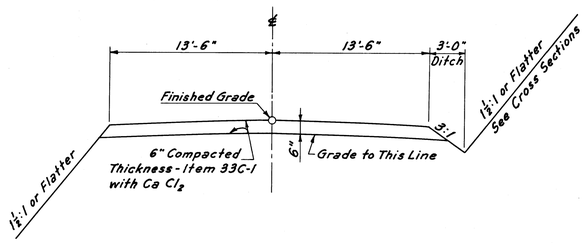
MID-SOUTH ENGINEERING CO., INC.
820 BROADWAY N.E. KNOXVILLE, TENNESSEE

TYPICAL SECTIONS INTERSTATE 36 FT. MEDIAN

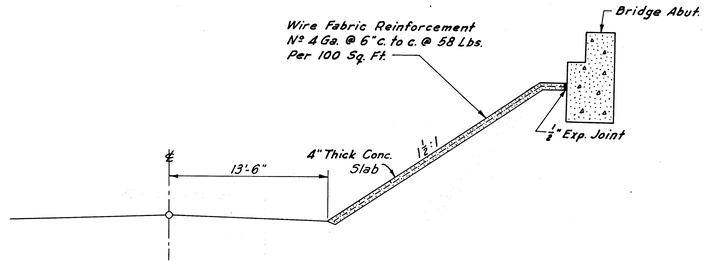
STATE OF TENNESSEE
DEPARTMENT OF HIGHWAYS
AND PUBLIC WORKS
NASHVILLE

DR. J.L.M.	DATE 3-6-59
CHK'D. M.L.S	11-13-59
APP'D.	

REVISED 4-26-60: HEIGHT AND DEPTH OF ROCK FILL CHANGED ON SPILL THRU SECTION & SECTION THRU FILL @ STA. 514+50.



COUNTY RD. RELOC. @ STA. 401+85 (E.B.L.)



PAVED SLOPES UNDER BRIDGES
@ COUNTY RD. RELOCATION

PAVED SLOPES

Pave slopes under bridges with 4" thick concrete slab, reinforced with wire fabric reinforcement at 58 lbs. per 100 sq. ft. The slab shall extend the width of the structure plus 4½ feet on each side and run parallel to the structure.

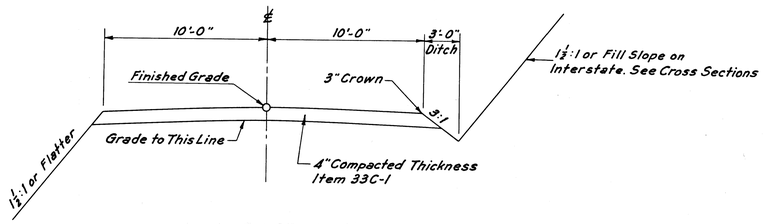
Wire fabric shall have No. 4 wires transverse @ 6" c. to c. and No. 4 wires longitudinal @ 6" c. to c. A 12" lap will be required on all sheets of wire fabric. The wire fabric shall extend to within 3" of the edge of slab. Wire fabric reinforcement shall be placed at one-half depth of slab.

½" premolded expansion joints without load transfers shall be formed about all structures and features projecting through, into, or against the slab.

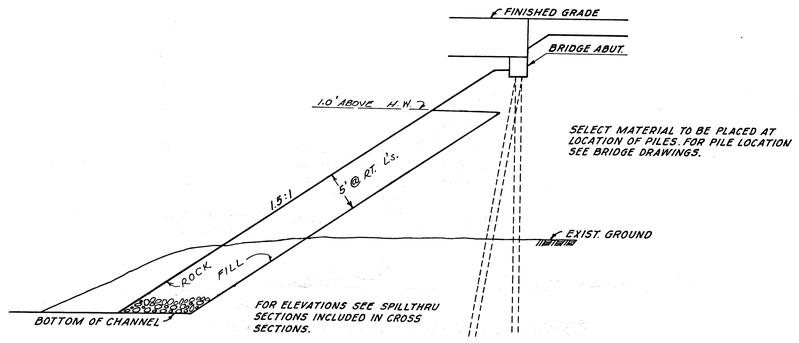
The slab shall be grooved parallel to and at right angles to the skew of the bridge @ 6'-0" c. to c. Depth of groove to be not less than 1"

All cost of slope paving, including wire fabric reinforcement, to be included in unit price bid for class "A" concrete.

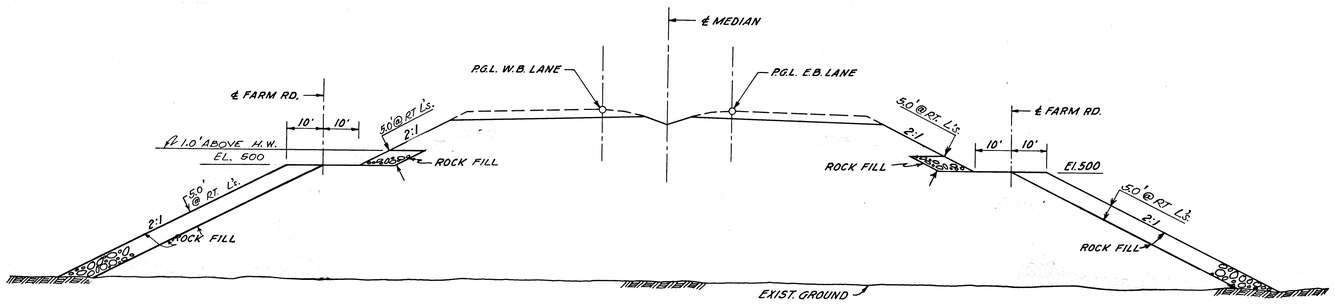
CLASS "A" CONCRETE REQUIRED: 74 CU. YDS.



FARM ROADS



SPILLTHRU SECTION



SECTION THRU FILL @ 514+50± TO 518+50±

NOTES:
Superelevation on Relocated County Road shall be rotated about the center line.

For other notes see Sheet No. 2

MID-SOUTH ENGINEERING CO., INC.
820 BROADWAY, N.E. KNOXVILLE, TENNESSEE

TYPICAL SECTIONS
SHEET No. 4

STATE OF TENNESSEE
DEPARTMENT OF HIGHWAYS AND PUBLIC WORKS
NASHVILLE

DR. J.L.M.	DATE 9-11-59	
CHK'D.		
APP'D.		

3 I-40-5(3)264 CONSTR. 1960 2-D 372

REVISED 4-26-60. GRADING QUANTITIES CHANGED AND NOTE ADDED RE. ITEM # 11-1.

ESTIMATED BRIDGE QUANTITIES

	AV. LGTH. 499'-0"		AV. LGTH. 446'-0"		AV. LGTH. 76'-3"		AV. LGTH. 334'-6"		AV. LGTH. 453'-6"		AV. LGTH. 320'-0"			
ITEM Nº	BRIDGE Nº 1A (RIGHT LANE)	BRIDGE Nº 1B (LEFT LANE)	BRIDGE Nº 2A (RIGHT LANE)	BRIDGE Nº 2B (LEFT LANE)	BRIDGE Nº 3A (RIGHT LANE)	BRIDGE Nº 3B (LEFT LANE)	BRIDGE Nº 4A (RIGHT LANE)	BRIDGE Nº 4B (LEFT LANE)	BRIDGE Nº 5A (RIGHT LANE)	BRIDGE Nº 5B (LEFT LANE)	BRIDGE Nº 6A (RIGHT LANE)	BRIDGE Nº 6B (LEFT LANE)	TOTAL QUANTITY	UNIT
DESCRIPTION	INTERSTATE OVER CANEY FORK RIVER RIVER MI. 15.0		INTERSTATE OVER CANEY FORK RIVER RIVER MI. 16.6		INTERSTATE OVER COUNTY ROAD		INTERSTATE OVER CANEY FORK RIVER RIVER MI. 18.7		INTERSTATE OVER CANEY FORK RIVER RIVER MI. 19.7		INTERSTATE OVER CANEY FORK RIVER RIVER MI. 20.7			
	Nº 1A - Sta. 296+15.74 Nº 1B - Sta. 295+93 PRECAST PRESTRESSED BOX GIRDERS COMPOSITE SECTION Nº 1A - 7 Spans (1@54', 3@63' 2@90, 1@65') TOT. LGTH. 488' 71°-00' SKEW Nº 1B - 7 Spans (1@66'-6", 3@ 67', 2@90', 1@62'-6") TOT. LGTH. 510'-7¾" 40° SKEW EACH BRIDGE 30' Roadway With Safety Curbs Nº 1A - DWG. Nº G-15-36 Nº 1B - DWG. Nº G-15-45		Nº 2A - Sta. 331+93 Nº 2B - Sta. 332+41 PRECAST PRESTRESSED "I" BEAM BRIDGES Nº 2A - 5 Spans {(1@90'-6" 3@89') TOT. LGTH. 445' 52°-00' SKEW Nº 2B - 5 Spans (2@90', 3@89') TOT. LGTH. 447' 52°-00' SKEW EACH BRIDGE 30' Roadway With Safety Curbs Nº 2A - DWG. Nº G-15-54 Nº 2B - DWG. Nº G-15-65		Nº 3A - Sta. 401+85 Nº 3B - Sta. 398+68.30 PRECAST PRESTRESSED BOX GIRDERS COMPOSITE SECTION Nº 3A - 1 - Span @ 75'-6" TOT. LGTH. 75'-6" 86°-44'-20" SKEW Nº 3B - 1 - Span @ 77' TOT. LGTH. 77' 89°-50'-00" SKEW EACH BRIDGE 40' Roadway With Safety Curbs Nº 3A - DWG. Nº G-15-76 Nº 3B - DWG. Nº G-15-76		Nº 4A - Sta. 431+41.96 Nº 4B - Sta. 424+17.07 PRECAST PRESTRESSED "I" BEAM BRIDGES Nº 4A - 5 Spans (2@72'-6", 3@83') TOT. LGTH. 394' 53°-00' SKEW Nº 4B - 5 Spans (2@73', 3@83') TOT. LGTH. 395' 50°-00' SKEW EACH BRIDGE 30' Roadway With Safety Curbs Nº 4A - DWG. Nº G-15-82 Nº 4B - DWG. Nº G-15-93		Nº 5A - Sta. 466+15.62 Nº 5B - Sta. 464+32.38 PRECAST PRESTRESSED "I" BEAM BRIDGES Nº 5A - 6 Spans (2@77', 4@80') TOT. LGTH. 474' 48°-30' SKEW Nº 5B - 6 Spans (2@56'-6", 4@80') TOT. LGTH. 433' 48°-30' SKEW EACH BRIDGE 30' Roadway With Safety Curbs Nº 5A - DWG. Nº G-15-104 Nº 5B - DWG. Nº G-15-115		Nº 6A {6B - Sta. 518+50 PRECAST PRESTRESSED BOX GIRDERS COMPOSITE SECTION EACH BRIDGE 4 - Spans (2@70', 2@90') TOT. LGTH. 320' 90°-00' SKEW 30' Roadway With Safety Curbs DWG. Nº G-15-127			
	QUANTITY		QUANTITY		QUANTITY		QUANTITY		QUANTITY		QUANTITY			
	RT. LANE	LT. LANE	RT. LANE	LT. LANE	RT. LANE	LT. LANE	RT. LANE	LT. LANE	RT. LANE	LT. LANE	RT. LANE	LT. LANE		
17-2 EXCAV. (BRIDGES) DRY	231	222	144	459			136	155			326	275	1,948	CU. YDS.
17-3 EXCAV. (BRIDGES) WET	320	558	750	593			536	266	627	666	336	336	4,988	CU. YDS.
17-4 EXCAV. (BRIDGES) ROCK	164	96	151	108			71	92	128	153	369	268	1,600	CU. YDS.
17-5 ROCK DRILLING		54	54	108									216	LIN. FT.
135-4 CLASS "A" CONC.	938.2	957.5	1,325.6	1,348.6	111.0	111.7	1,096.7	1,023.7	1,311.0	1,284.4	807.3	785.6	11,101.3	CU. YDS.
135-12 STEEL BAR REINF.	137,882	126,753	204,756	204,020	18,378	18,253	159,321	148,349	180,814	173,638	99,423	94,235	1,565,822	LBS.
132-1 STRUCTURAL STEEL	1,550	1,530	1,845	1,845			1,825	1,900	1935	1935	1470	1470	17,305	~~LBS.~~ L.B.S.
137-3 STEEL PILES (10") @ 42°	1,838	1,855			1,522	983	1,050	905	475	490	570	570	10,258	LIN. FT.
154-1 PRECAST PRESTRESSED CONC. BOX GIRDER 48"x 33"x 54'-0"	8												8	EACH
154-1A " " " " " 48"x 33"x 63'-0"	24												24	"
154-1B " " " " " 48"x 42"x 30'-0"	16												16	"
154-1C " " " " " 48"x 33"x 65'-0"	8												8	"
154-1D " " " " " 48"x 33"x 66'-6"		8											8	"
154-1E " " " " " 48"x 33"x 67'-0"		24											24	"
154-1F " " " " " 48"x 42"x 90'-0"		16											16	"
154-1G " " " " " 48"x 33"x 62'-6"		8											8	"
154-1H " " " " " 48"x 33"x 69'-11½"											16	16	32	"
154-1J " " " " " 48"x 42"x 89'-10½"											16	16	32	"
154-1K " " " " " 48"x 42"x 73'-6"					11								11	"
154-1L " " " " " 48"x 42"x 75'-0"						11							11	"
154-PT1 AASHO TYPE IV PRECAST PRESTRESSED CONC. "I" BEAM 54"x 87'-11¼"				12										
154-PT2 " " " " " " " 54"x 88'-10"			18	18									12	"
154-PT3 " " " " " " " 54"x 87'-5½"			6										36	"
154-PT4 " " " " " " " 54"x 86'-5½"			6										6	"
154-PT5 " " " " " " " 54"x 70'-6"							10						6	"
154-PT6 " " " " " " " 54"x 82'-10"							15	15					10	"
154-PT7 " " " " " " " 54"x 70'-10½"								10					30	"
154-PT8 " " " " " " " 54"x 74'-9½"									10				10	"
154-PT9 AASHO TYPE III " " " " 45"x 54'-3"										10			10	"
154-PT10 AASHO TYPE IV " " " " 54"x 79'-10"									20	20			40	"
501 STEEL HANDRAIL (2 BAR)	362	1,006	876	878	150	152	772	774	932	850	626	626	8,604	LIN. FT.

◒ ALL EXPANSION JOINT MATERIAL SHALL BE INCLUDED IN THE PRICE FOR CLASS "A" CONCRETE UNLESS PROVIDED FOR IN PROVISIONS FOR PRESTRESSED GIRDERS AND ITEMIZED STEEL EXPANSION JT. TRANSITE SCUPPERS FOR DECK DRAINAGE SHALL BE INCLUDED IN THE UNIT PRICE BID FOR CLASS "A" CONCRETE.

ESTIMATED ROADWAY QUANTITIES

	ITEM Nº	DESCRIPTION	QUANTITY	UNIT
(10) (7)	11-1	CLEARING AND GRUBBING	1	LUMP SUM
	~~12-1~~	~~REMOVAL OF STRUCTURES, ETC. (SEE SPEC. PROVISION)~~	~~1~~	~~LUMP SUM~~
	~~12-1a~~	~~SALVAGE VALUE OF STRUCTURES REMOVED (SEE SPEC. PROVISION)~~	~~1~~	~~LUMP SUM~~
(1)	13-3	ROAD AND DRAINAGE EXCAVATION (UNCLASS) 1,735,182	~~1738,350~~	CU. YD.
	13-4	CHANNEL EXCAVATION (UNCLASS)	106,813	CU. YD.
(2)	13-5	WATER (EMBANKMENT)	3,376	M. GAL.
(6)	15-1	BORROW EXCAVATION (COMMON) 26,860	~~20,000~~	CU. YD.
	15-2	BORROW EXCAVATION (SOLID ROCK) 15,215	~~32,000~~	CU. YD.
	33C-1	CRUSHED STONE (TRAFFIC BOUND ROADWAY)	4,453	TON
(3) ALT. C	33C-1b	FLAKE CALCIUM CHLORIDE (TRAFFIC BOUND ROADWAY)	4	TON
	33C-1c	CONCENTRATED CALCIUM CHLORIDE (TRAFFIC BOUND ROADWAY)	3	TON
	33C-10	GRANULAR BACKFILLING FOR PIPE CULVERTS (SEE SPEC. PROVISION)	1,243	CU. YD.
	132-4a	GRAY IRON CASTINGS - CLASS 30	1,450	LB.
	132-4b	GRAY IRON CASTINGS - CLASS 20	223	LB.
	135-4	CLASS "A" CONCRETE	742	CU. YD.
	135-4a	CLASS "A" CONCRETE (PAVED SLOPES UNDER BRIDGES)	74	CU. YD.
	135-12	STEEL BAR REINFORCEMENT	90,478	LB.
(5)	141-3	18" ~~STD.~~ STR. CONCRETE PIPE CULVERT	116	LIN. FT.
	141-4	24" ~~STD.~~ STR. CONCRETE PIPE CULVERT	296	LIN. FT.
	141-7	42" ~~STD.~~ STR. CONCRETE PIPE CULVERT	40	LIN. FT.
	141-10	60" ~~STD.~~ STR. CONCRETE PIPE CULVERT	44	LIN. FT.

ESTIMATED ROADWAY QUANTITIES

	ITEM Nº	DESCRIPTION	QUANTITY	UNIT
	144	15" C.G.M. PIPE CULVERT BITUMINOUS COATED (PAVED INVERT)	1,130	LIN. FT.
	144	24" C.G.M. PIPE CULVERT BITUMINOUS COATED	170	LIN. FT.
	144	42" C.G.M. PIPE CULVERT BITUMINOUS COATED (PAVED INVERT)	524	LIN. FT.
	144	60" C.G.M. PIPE CULVERT BITUMINOUS COATED (PAVED INVERT) STRUTTED	362	LIN. FT.
	144	66" C.G.M. PIPE CULVERT BITUMINOUS COATED (PAVED INVERT) STRUTTED	344	LIN. FT.
	149	102" C.G.M. STRUCTURALPLATE PIPE CULVERT BITUMINOUS COATED STRUTTED	596	LIN. FT.
	159	METAL END SECTION, PIPE CULVERT, 15"	11	EACH
	159	METAL END SECTION, PIPE CULVERT, 24"	4	EACH
	159	METAL END SECTION, PIPE CULVERT, 42"	4	EACH
	173-7	STOCK FENCE (SEE SPECIAL PROVISION)	47,100	LIN. FT.
(9)	173-10	GATE FOR DITCH	868	SQ. FT.
(9)	173-12	WATER CROSSING	156	LIN. FT.
	174-2	MARKERS (R.O.W.)	89	EACH
(8)	176-	RIP-RAP	48	CU. YD.
(4)	178-17	6" PERFORATED CONCRETE PIPE UNDERDRAIN	1,000	LIN. FT.
	500	SEEDING (SEE SPECIAL PROVISION)	3,295	UNIT

(1) INCLUDES AN ESTIMATED 21,022 CU. YD. OF TOPSOIL STRIPPING UNDER FILLS.
(2) INCLUDES 67 M. GALS. WATER FOR ITEM 33C-1.
(3) ~~QUANTITIES MAY BE REDUCED OR ELIMINATED AT THE DISCRETION OF THE ENGINEER.~~
(4) CONTINGENCY ITEM - TO BE USED AS DIRECTED BY ENGINEER.
(5) AASHO DESIGNATION M-170-57, CLASS III.
(6) THIS MATERIAL TO BE FURNISHED BY THE CONTRACTOR. SEE GENERAL NOTES.
(7) SEE NOTE RE. CLEARING AND GRUBBING IN WIDE MEDIAN, SHEET NO. 2
(8) RUBBLE STONE (PLAIN) OR SACKED SAND-CEMENT.
(9) SEE STANDARD DWG. RD-F-20.
(10) INCLUDES THE REMOVAL AND DISPOSAL OF ONE ABANDONED FRAME HOUSE AND ONE FRAME BARN ON THE SID PETTY ESTATE. THESE BUILDINGS HAVE NO SALVAGE VALUE.

GENERAL NOTES

1- GRADE ON PROFILE SAME AS GRADE ON CROSS-SECTIONS AND SAME AS FINISHED GRADE ON TYPICAL CROSS SECTIONS.

2- THE COST OF CULVERT EXCAVATION FOR CONCRETE BOX CULVERTS SHALL BE INCLUDED IN THE UNIT PRICE BID PER CU. YD. OF CLASS "A" CONCRETE. THE COST OF CULVERT EXCAVATION FOR PIPE CULVERTS, INLETS AND ENDWALLS SHALL BE INCLUDED IN THE UNIT PRICE BID PER LINEAR FOOT OF PIPE. WHEN A CULVERT IS MOVED TO A NEW LOCATION OTHER THAN THAT SHOWN ON THE PLANS, THEREBY INCREASING OR DECREASING THE AMOUNT OF CULVERT EXCAVATION, NO INCREASE OR DECREASE IN AMOUNT OF PAYMENT WILL BE MADE DUE TO THE CHANGE.

3- ALL NECESSARY CONSTRUCTION JOINTS IN CONCRETE BOX CULVERTS AND BRIDGES SHALL BE THE BUTT TYPE. LOCATION OF JOINTS TO BE AS SHOWN ON THE PLANS OR DETERMINED BY THE ENGINEER.

4- SLOPES ALONG INTERSTATE ARE TO BE 2:1 OR FLATTER, EXCEPT IN ROCK CUTS.

5- ALL CONCRETE BOX CULVERTS ARE DESIGNED FOR H 20-S16-44 AND ALTERNATE MILITARY LOADING.

PROPOSED CONSTR. UNDER I-40-5(3)264

1- GRADING TO LINES INDICATED ON TYPICAL CROSS-SECTIONS OR AS DIRECTED BY THE ENGINEER.

2- COMPLETE DRAINAGE SYSTEM AS INDICATED ON PLAN AND PROFILE SHEETS.

3- TOPSOIL AND SEEDING OF ALL EARTH SLOPES AS NOTED ON THE TYPICAL CROSS-SECTION

4- STOCK FENCE.

5- TWELVE BRIDGES AS SPECIFIED IN THE PLANS (SIX TWIN)

6- TRAFFIC BOUND CRUSHED STONE SURFACE ON RELOCATED COUNTY ROAD AND FARM ROADS.

FUTURE CONSTR.-NOT UNDER I-40-5(3)264

1- ALL BASE AND PAVEMENT ON INTERSTATE.

2- GUARD RAIL.

GENERAL NOTES, CONT'D.

6- UNDER ITEMS 15-1 & 15-3, THE CONTRACTOR WILL BE REQUIRED TO FURNISHED SUITABLE BORROW MATERIAL FROM A SITE APPROVED BY THE ENGINEER. THE BORROW SHALL BE TAKEN IN SUCH MANNER AS TO BE READILY MEASURED. BORROW MATERIAL IS TO BE USED ONLY AFTER ITEM 13-3, ROAD AND DRAINAGE EXCAVATION, IS EXHAUSTED.

7. CERTAIN PORTIONS OF THE R.O.W. AS DESIGNATED BY THE ENGINEER SHALL BE FENCED PRIOR TO THE REMOVAL OF EXISTING FENCES, AND PRIOR TO THE BEGINNING OF CONSTRUCTION OPERATIONS.

8. LOCATION OF STOCK FENCE, ITEM 173-7, SHALL BE ONE FOOT INSIDE OF, AND FOLLOWING THE ACCESS RTE. LINE EXCEPT WHERE OTHERWISE SHOWN ON PLANS. FENCE SHALL BE TURNED IN AT DRAINAGE AND SEPARATION STRUCTURES SO THAT THEY ABUT THE WINGWALLS OR ABUTMENTS AS SHOWN ON PLANS OR AS DIRECTED.

9. FENCE SHALL BE INSTALLED IN THE MEDIAN BETWEEN THE NORTH AND SOUTH BOUND LANES WHERE THE MEDIAN WIDTH IS SUCH THAT IT SEPARATES THE STRUCTURES, AS SHOWN ON PLANS OR AS DIRECTED BY THE ENGINEER.

MID-SOUTH ENGINEERING CO., INC.
820 BROADWAY, N.E. KNOXVILLE, TENNESSEE

ESTIMATED RDWY. & BRIDGE QUANTITIES

STATE OF TENNESSEE
DEPARTMENT OF HIGHWAYS AND PUBLIC WORKS
NASHVILLE

DR. J.L.M.	DATE 10-29-59
CHK'D.	
APP'D.	

N. STATE HIGHWAYS
FILE NO. 50

3 I-40-5(9)264 CONSTR. 1960 2-E 372
REVISED 4-26-60: GRADING QUANTITIES CHANGED.

CONCRETE PIPE CULVERTS & ENDWALLS

STATION	DR. AREA AC.	PIPE SIZE LENGTH AND CLASS 18"	24"			42"	60"	CLASS	SKEW	DWG. Nº	CLASS "A" CONC. C.Y.	REINF. STEEL LBS.	GRANU. BACKFILL C.Y.		CONC. ENDWALLS
INTERSTATE															
315+00 W.B.L.	10-H.		116					STD.	90°	E-2-90	5.02	290	31		2-STRAIGHT
315+50 E.B.L.	8-H.		104					STD.	90°	E-2-90	5.02	290	28		2-STRAIGHT
FARM ROAD @ 332± E.B.L.															
27+88	4-H.	68						STD.	45°Rt.						
FARM ROAD @ 370 TO 397 W.B.L.															
70+00	4-H.	48						STD.	90°						
76+00	36-H.					40		STD.	90°						
86+00	95-H.						44	STD.	90°						
RELOC. COUNTY ROAD @ 401+85 E.B.L.															
7+50	8-H.		38					STD.	90°	D-0-13	3.24				2-STRAIGHT
12+00	8-H.		38					STD.	90°	D-0-13	3.24				2-STRAIGHT
TOTAL		116	296			40	44				16.52	580	59		

REMOVAL & SALVAGE OF BUILDINGS

TRACT Nº	DESCRIPTION	ITEM 12 ESTIMATE	ITEM 12-P ESTIMATE
34	BARN		
36	FRAME DWELLING		
36	SHED		
37	BARN		
37	SHED		
38	FRAME DWELLING		
38	GARAGE		
38	SHED		
38	SHED		
38	SHED		
38	BARN	VOID	
40	FRAME DWELLING		
40	BARN		
40	SHED		
42	CEMETERY	(NOT IN CONTRACT)	
45	BARN		

CORRUGATED METAL AND SECTIONAL PLATE PIPE CULVERTS

STATION	DR. AREA AC.	PIPE SIZE LENGTH AND GAUGE 18"	24"		GG"	42"	60"	102" SECT PL	GA.	SKEW	DWG. Nº	CLASS "A" CONC. C.Y.	REINF. STEEL LBS.	GRANU. BACKFILL C.Y.	MET. END SECT.	RIP-RAP C.Y.	CONC. END WALLS	REMARKS
INTERSTATE																		
373+80 W.B.L.	34-H.					202 1/2"			8 10Ø/12	90°	CM-1-4;6			89	2			
376+55 E.B.L.	27-H.					162			12	85°Rt.	CM-1-4;6			72	2			
386+00 W.B.L.	95-H.						180		10	90°	CM-1-4;5;7			116		7.6		BEVELLED ENDS-STRUTTED
389+00 E.B.L.	86-H.						182		10	90°	CM-1-4;5;7			117		7.6		BEVELLED ENDS-STRUTTED
397+74 W.B.L.	382-H.							316 ◔	10Ø/12	60°Lt.	CM-1-4;5;7			381		12.4		SKEWED ENDS ONLY-STRUTTED
398+59 E.B.L.	371-H.							280 ◒	5/7.5 102/12	82°Lt.	CM-1-4;5;7			338		12.4		BEVELLED ENDS-STRUTTED
419+85 E.B.L.	29-H.					160			12	60°Lt.	CM-1-4	10.58	178	71			2	TYPE "A"; SHEET Nº 27
275+00 E.B.L.	125-H				170'				10	50°	CM-1-4,5,7			122		8.2		BEV. ENDS; STRUTTED
275+42 W.B.L.	125-H				164'				10	61°LT	CM-1-4,7	25.64	338	117			2	TYPE "A"; SHT #27-STRUTTED
RELOC. COUNTY ROAD @ 401+85 E.B.L.																		
18+00	8-H.		100						14	90°	CM-1-4;6				2			
21+50	5-H.		70						14	90°	CM-1-4;6				2			
TOTAL			170		344	524	362	596				36.22	516	1423	8	48.2	4	

✲ 60' of #8 Ga.; 40' of #10 Ga. & 102' of #12 Ga.
◔ 126' of #10 Ga., 130' of #12 Ga.
◒ 56' of #5 Ga., 24' of #7 Ga., 38' of #8 Ga. & 60' of #10 Ga. & 102' of #12 Ga.

ITEMIZED PAVING QUANTITIES

ITEM Nº	DESCRIPTION		FARM ROADS	RELOC. COUNTY RD. @ 401+85 E.B.L.	TOTAL	UNIT
33C-1	CRUSHED STONE		2,462	1,991	4,453	TON
~~33C-1b~~	~~FLAKE CALC. CHLO.~~			~~4~~	~~4~~	TON
33C-1c	CONC. CALC. CHLO.			3	3	TON

ITEMIZED QUANTITIES FOR MEDIAN DRAINS & SPILLWAYS

SHEET Nº	DESCRIPTION	15" C.G.M. PIPE LENGTH (FT.)	CLASS "A" CONC. C.Y.	REINF. STEEL LBS.	METAL END SECTIONS	CASTINGS CLASS 20 LBS.	CASTINGS CLASS 30 LBS	MET. ELBOWS 25°	
19A	MEDIAN DRAINS & SPILLWAYS	342	7.30	87	3		435		
19B	MEDIAN DRAINS & SPILLWAYS	226	5.95	87	2		290	2	
20B	MEDIAN DRAINS	236	2.70		2		290	2	
21A	SPILLWAYS	92	2.66	87	1	223		1	
21B	SPILLWAYS		7.17	87					
22A	SPILLWAYS		3.54	87					
24A	SPILLWAYS		2.89	87					
24B	MEDIAN DRAINS	78	1.35		1		145		
25A	MEDIAN DRAINS & SPILLWAYS	156	6.51	87	2		290		
25B	SPILLWAYS		3.86	87					
	TOTAL	1,130	43.93	696	11	223	1,450	5	

CONCRETE BOX CULVERTS

STATION	DR. AREA AC.	SIZE AND LENGTH W	H	L	SKEW	DWG. Nº	CLASS "A" CONC. C.Y.	REINF. STEEL LBS.
450+75 W.B.L.	477-H.	8'-0"	8'-0"	170	90°	C-4-141; E-8-57	253.52	35,086
455+41 E.B.L.	492-H.	8'-0"	8'-0"	242	60°Rt.	C-4-141; E-8-58	391.59	53,600
TOTAL							645.11	88,686

R.O.W. MARKERS

TYPE "A"	46
TYPE "B"	21
TYPE "C"	22
TOTAL	89

GRADING QUANTITIES

STATION TO STATION		ROADWAY EXCAVATIONS - CU. YD. COMMON	SOLID ROCK	CHANNEL	BORROW - CU. YD. COMMON	SOLID ROCK
E.B.L. & W.B.L. ✲						
264+15	300+28	344,550	4813			
300+28	328+45	84,229	11,014	2,000	3,800	
328+45	333+00	1,376	27,023			
333+00	335+59			12,600		
335+59	369+40	65,665	154,972		12,000	
E.B.L.						
369+40	390+45	1,230	147,569			
390+45	412+70	81,761	62,523			
412+70	432+27	49,755	18,172			
434+56	466+45	93,165	15,959			
W.B.L.						
370+00	397+10	19,126	74,429		4,200	
397+10	407+65	47,926	13,780			
407+65	424+96	56,519	12,861			
424+96	427+32			7,400		
427+32	464+50	58,066	46,900			
E.B.L. & W.B.L. ✲						
		114,613				6,200
470+13	495+45	~~111,446~~			6,860	~~11,200~~
495+45	520+95	~~131,312~~		80,000		~~20,800~~
		127,186				9,015
		1,145,167			26,860	15,215
TOTAL		~~1,152,326~~	530,015	102,000	~~20,000~~	~~32,000~~

✲ STATIONS SHOWN ARE FOR E.B. LANE.

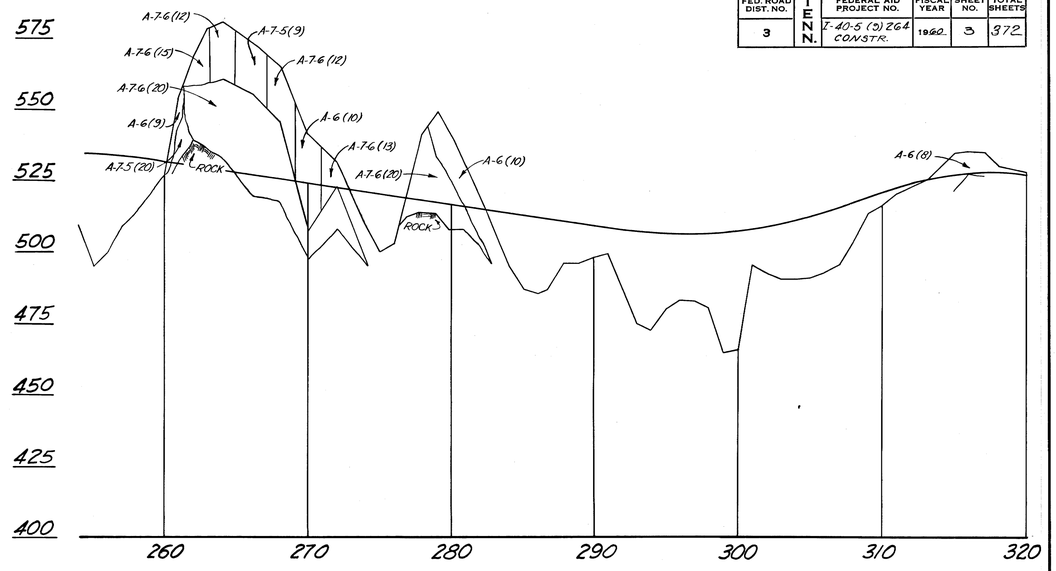
MID-SOUTH ENGINEERING CO., INC.
820 BROADWAY, N.E. KNOXVILLE, TENNESSEE

ESTIMATED ROADWAY QUANTITIES

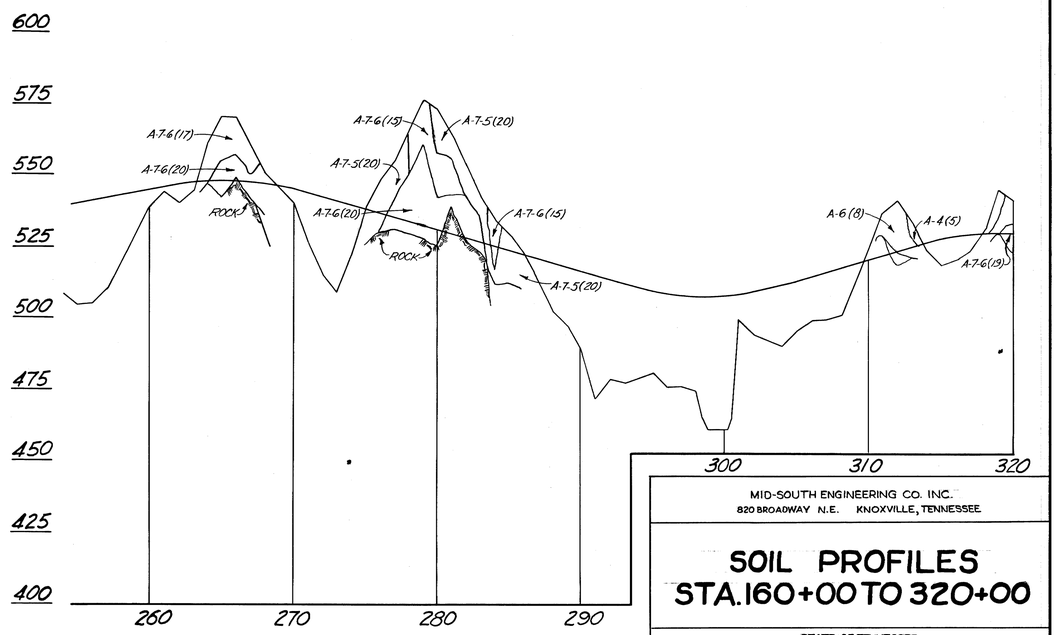
STATE OF TENNESSEE
DEPARTMENT OF HIGHWAYS AND PUBLIC WORKS
NASHVILLE

DR. J.L.M.	DATE 11-12-59	
CHK'D. M.L.S.	11-13-59	
APP'D.		

FED. ROAD DIST. NO.		FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
3	TENN.	I-40-5 (3) 264 CONSTR.	1960	3	372



PROFILE LEFT LANE



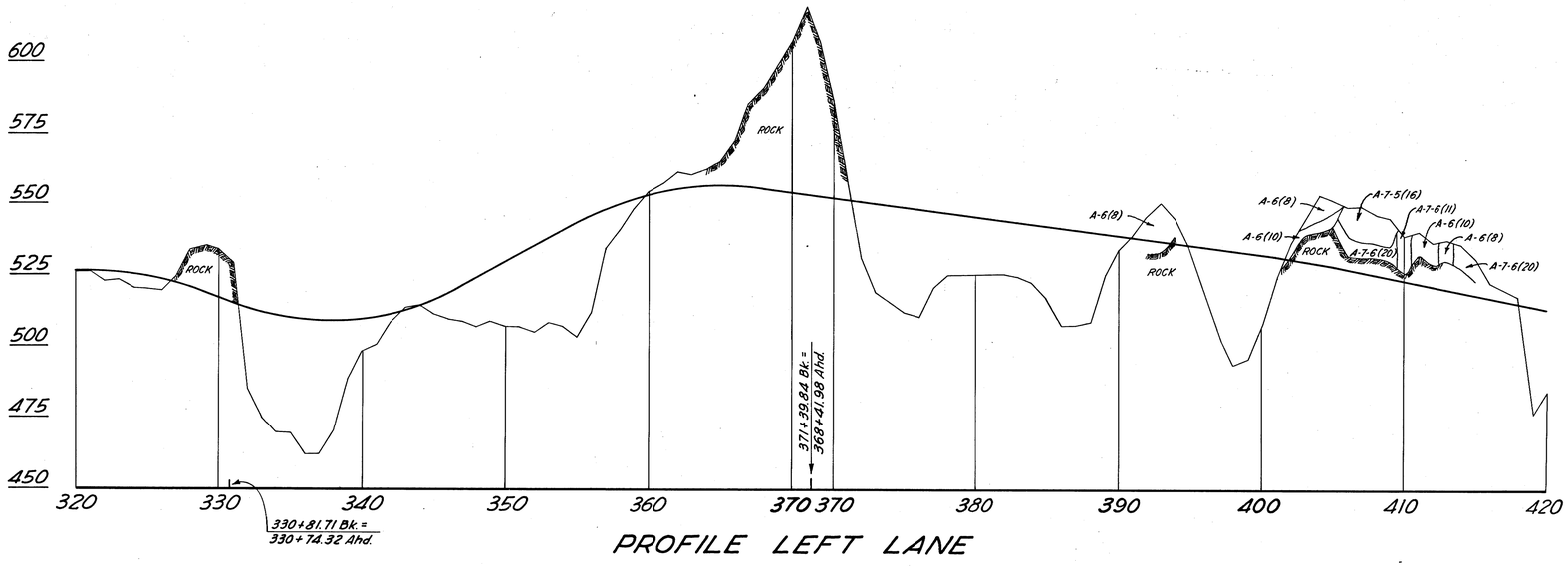
PROFILE RIGHT LANE

MID-SOUTH ENGINEERING CO. INC.
820 BROADWAY N.E. KNOXVILLE, TENNESSEE

SOIL PROFILES
STA. 160+00 TO 320+00

STATE OF TENNESSEE
DEPARTMENT OF HIGHWAYS
AND PUBLIC WORKS
NASHVILLE

DR. JLM	DATE 4-27-59
CHK'D.	
APP'D.	



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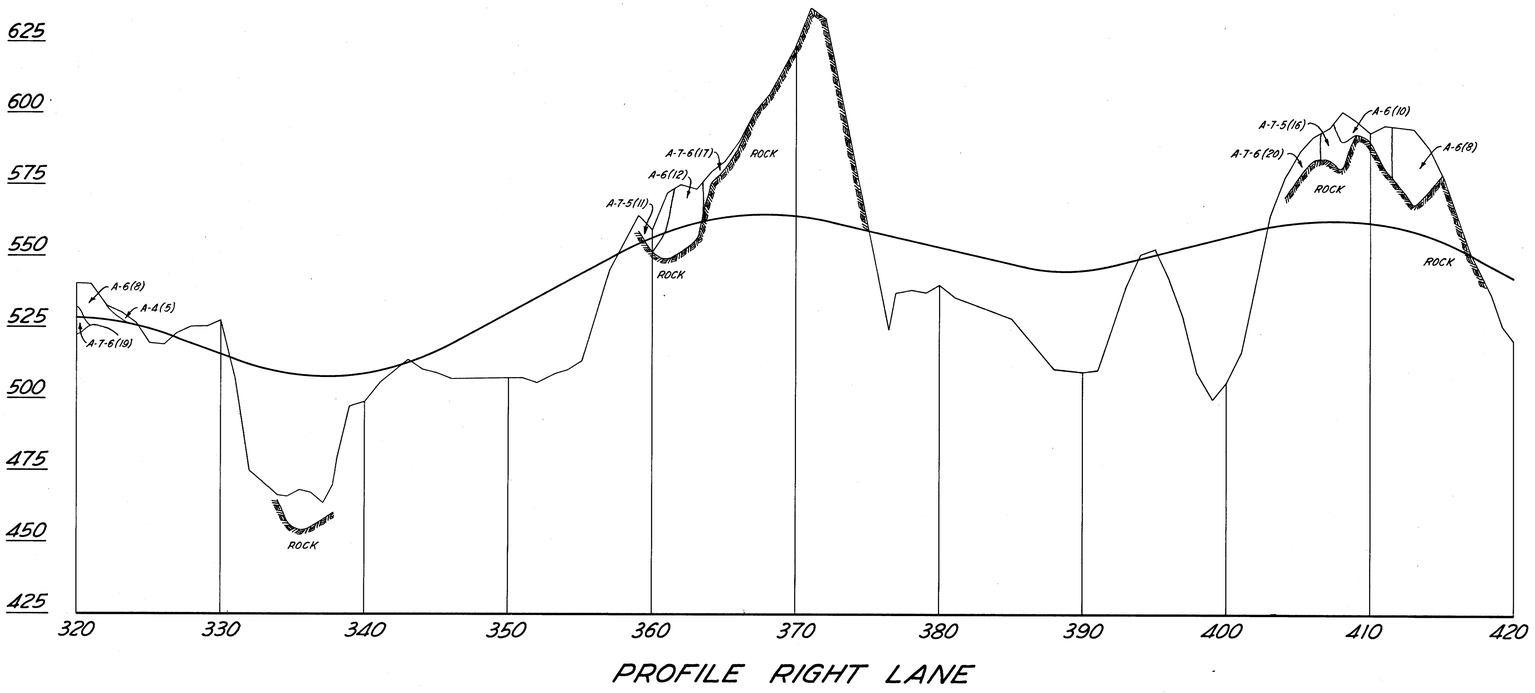


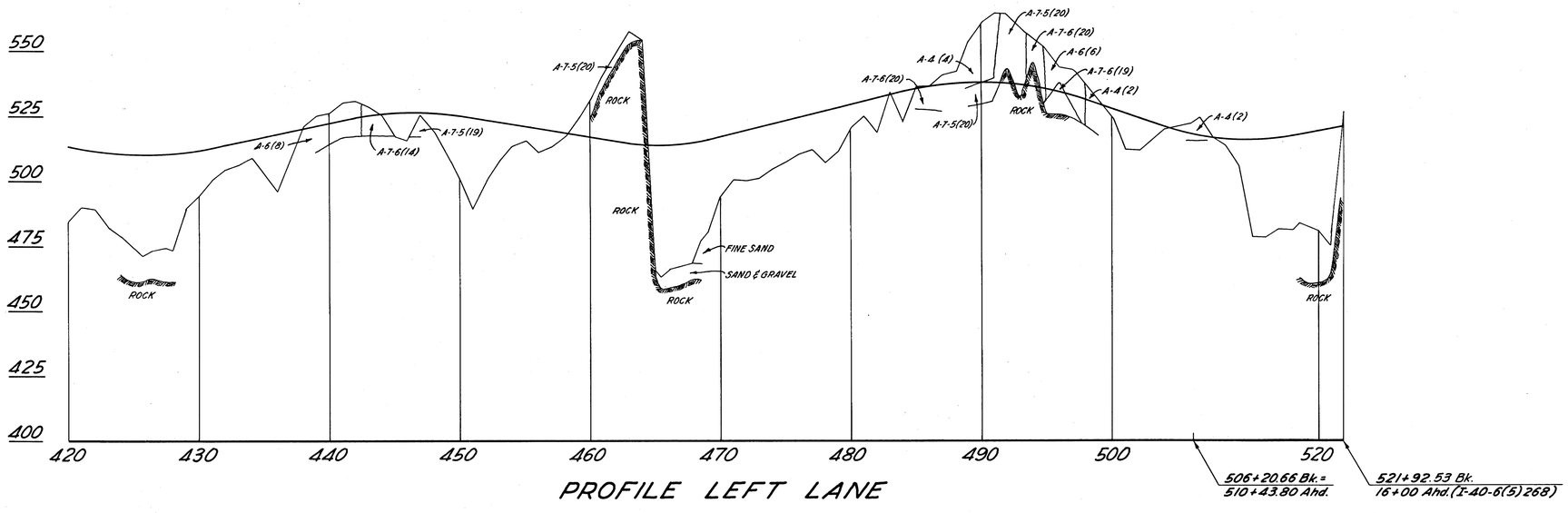
PROFILE RIGHT LANE

MID-SOUTH ENGINEERING CO., INC.
820 BROADWAY N.E. KNOXVILLE, TENNESSEE

SOIL PROFILES
STA. 320+00 TO 420+00

STATE OF TENNESSEE
DEPARTMENT OF HIGHWAYS
AND PUBLIC WORKS
NASHVILLE

DR	J.L.M.	DATE 9-17-59
CHK'D		
APP'D		



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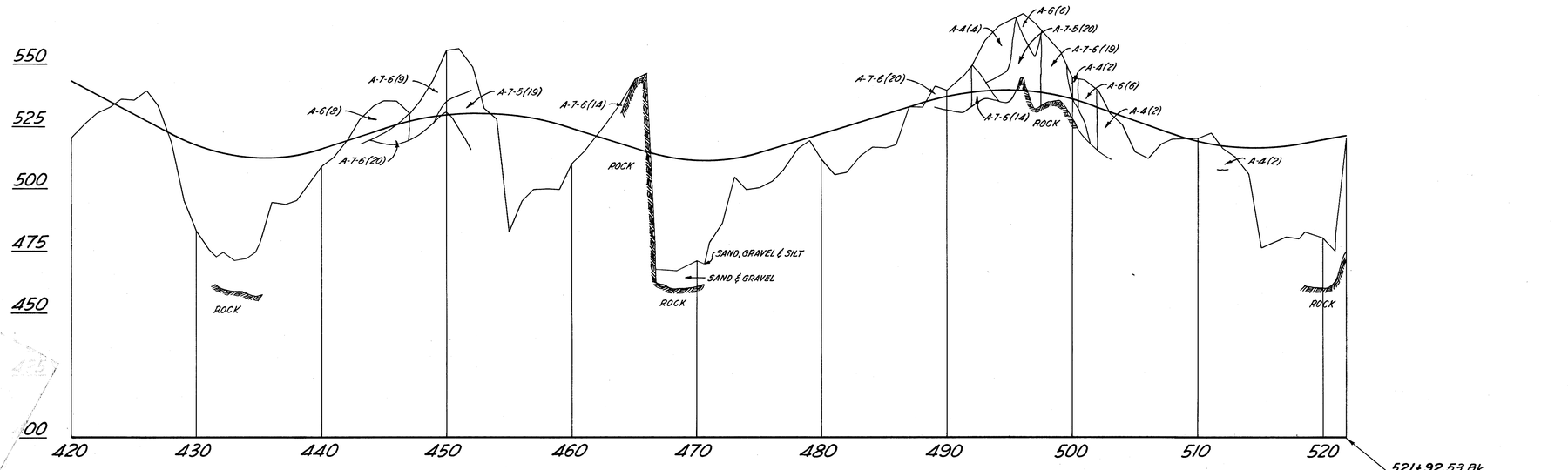


PROFILE RIGHT LANE

MID-SOUTH ENGINEERING CO., INC.
820 BROADWAY N.E. KNOXVILLE, TENNESSEE

SOIL PROFILES STA. 420+00 TO 521+92

STATE OF TENNESSEE
DEPARTMENT OF HIGHWAYS
AND PUBLIC WORKS
NASHVILLE

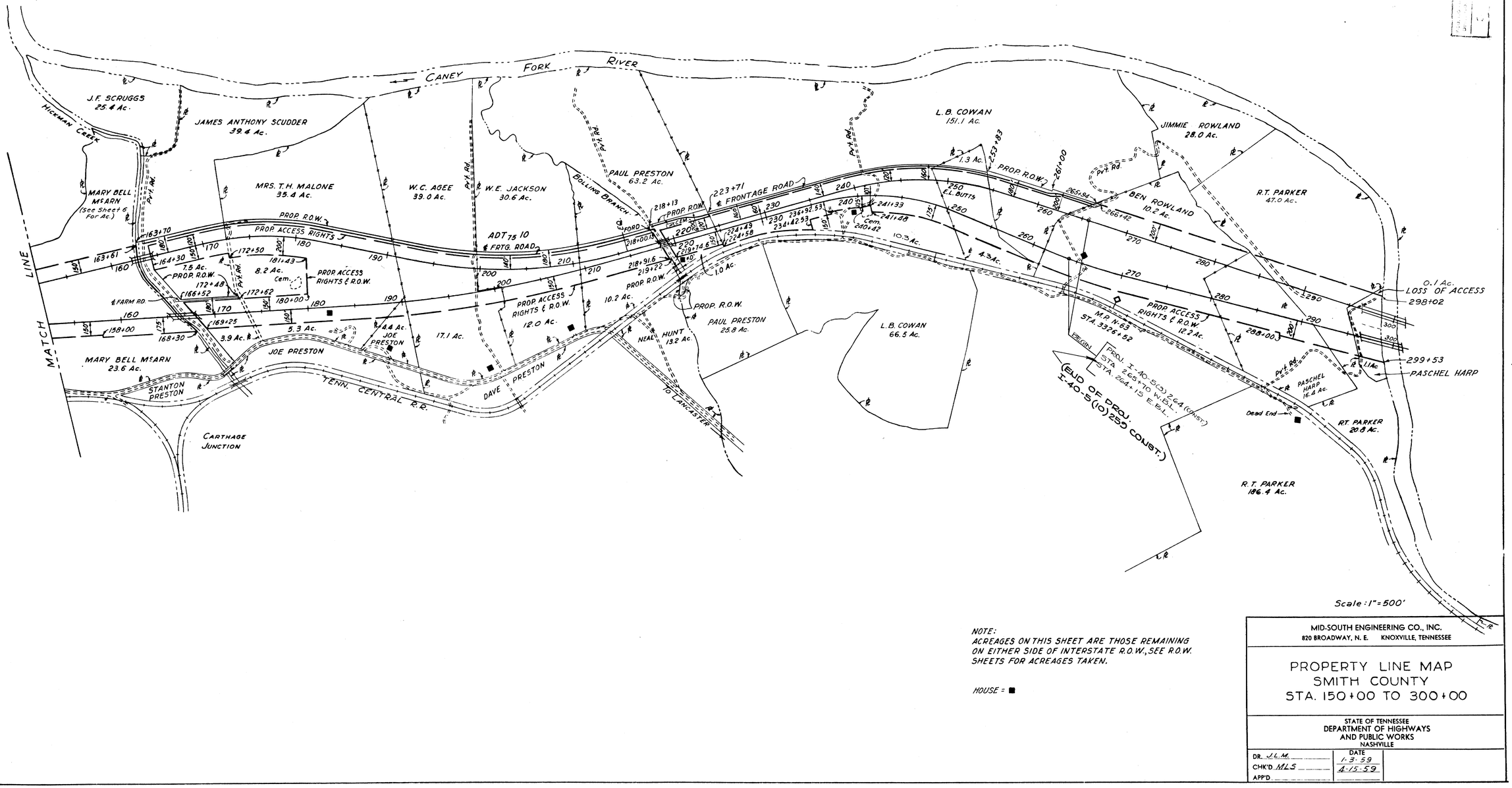
DR. J.L.M.
CHK'D.
APP'D.
DATE 9-17-59

FED. ROAD DIST. No.	T E N N	FEDERAL AID PROJECT No.	FISCAL YEAR	SHEET No.	TOTAL SHEETS
		I-40-6(8)259 R.O.W.	1959	7	25

I-40-5(5)264 (CONST.) 60 14 372

REVISED 7-15-59 : FRTG. RD. & HOUSES ADDED.
REVISED 7-31-59: LINE CHANGE W.B.L. AHEAD OF STA. 282.

TOTAL SHEETS	
	276
	7
I-40-5(10)259 CONST.	60



Scale : 1" = 500'

NOTE:
ACREAGES ON THIS SHEET ARE THOSE REMAINING ON EITHER SIDE OF INTERSTATE R.O.W., SEE R.O.W. SHEETS FOR ACREAGES TAKEN.

HOUSE = ■

MID-SOUTH ENGINEERING CO., INC.
820 BROADWAY, N. E. KNOXVILLE, TENNESSEE

PROPERTY LINE MAP
SMITH COUNTY
STA. 150+00 TO 300+00

STATE OF TENNESSEE
DEPARTMENT OF HIGHWAYS AND PUBLIC WORKS
NASHVILLE

	DATE
DR. J.L.M.	1-3-59
CHK'D. M.L.S.	4-15-59
APP'D.	

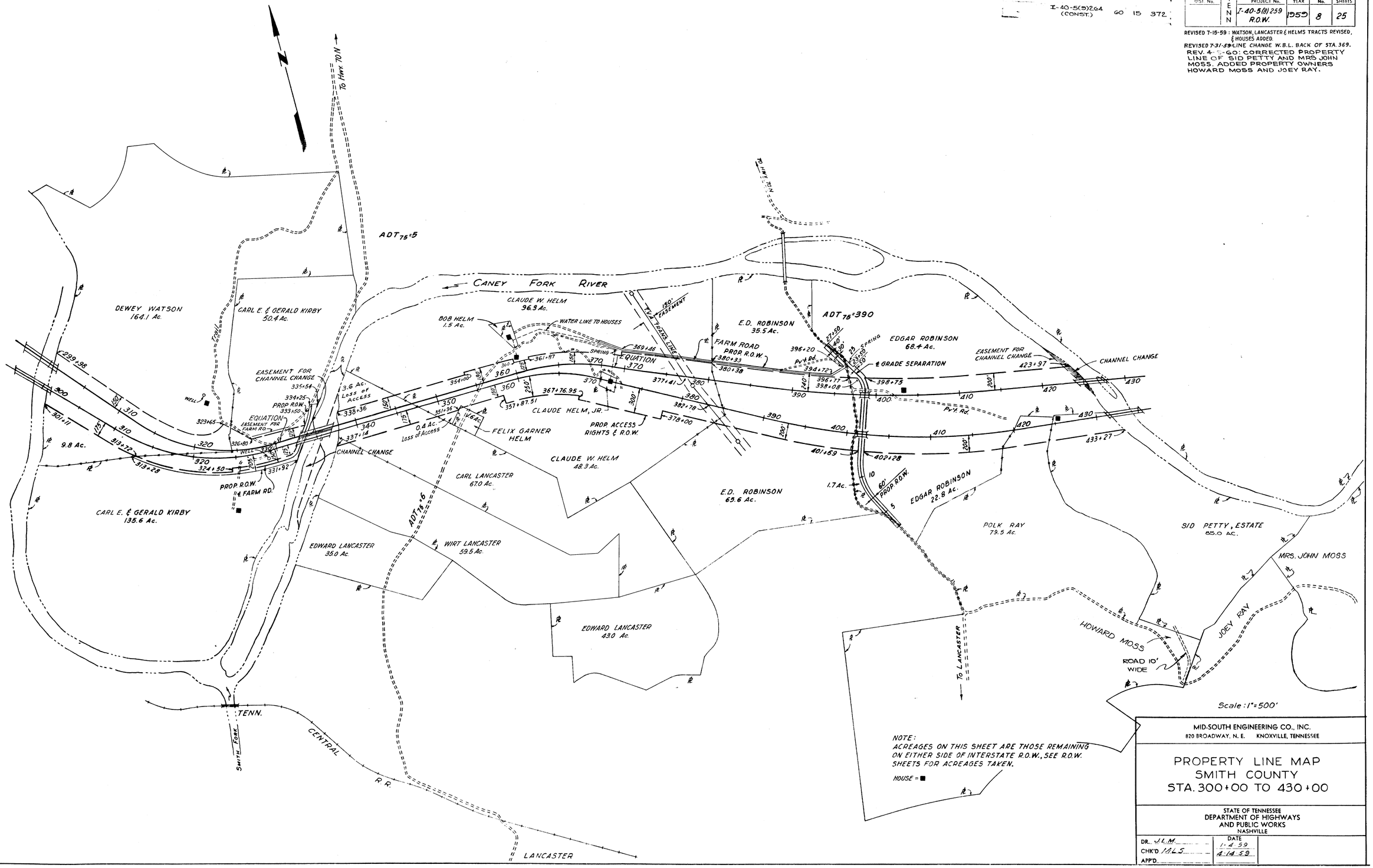
FED. ROAD DIST. No.		FEDERAL AID PROJECT No.	FISCAL YEAR	SHEET No.	TOTAL SHEETS
	TENN	I-40-5(8)259 R.O.W.	1959	8	25

I-40-5(9)264 (CONST.) GO 15 372

REVISED 7-15-59 : WATSON, LANCASTER & HELMS TRACTS REVISED, & HOUSES ADDED.

REVISED 7-31-59 LINE CHANGE W.B.L. BACK OF STA. 369.

REV. 4-[illegible]-60 CORRECTED PROPERTY LINE OF SID PETTY AND MRS JOHN MOSS. ADDED PROPERTY OWNERS HOWARD MOSS AND JOEY RAY.



NOTE:
ACREAGES ON THIS SHEET ARE THOSE REMAINING ON EITHER SIDE OF INTERSTATE R.O.W., SEE R.O.W. SHEETS FOR ACREAGES TAKEN.

HOUSE = ■

MID-SOUTH ENGINEERING CO., INC.
820 BROADWAY, N. E. KNOXVILLE, TENNESSEE

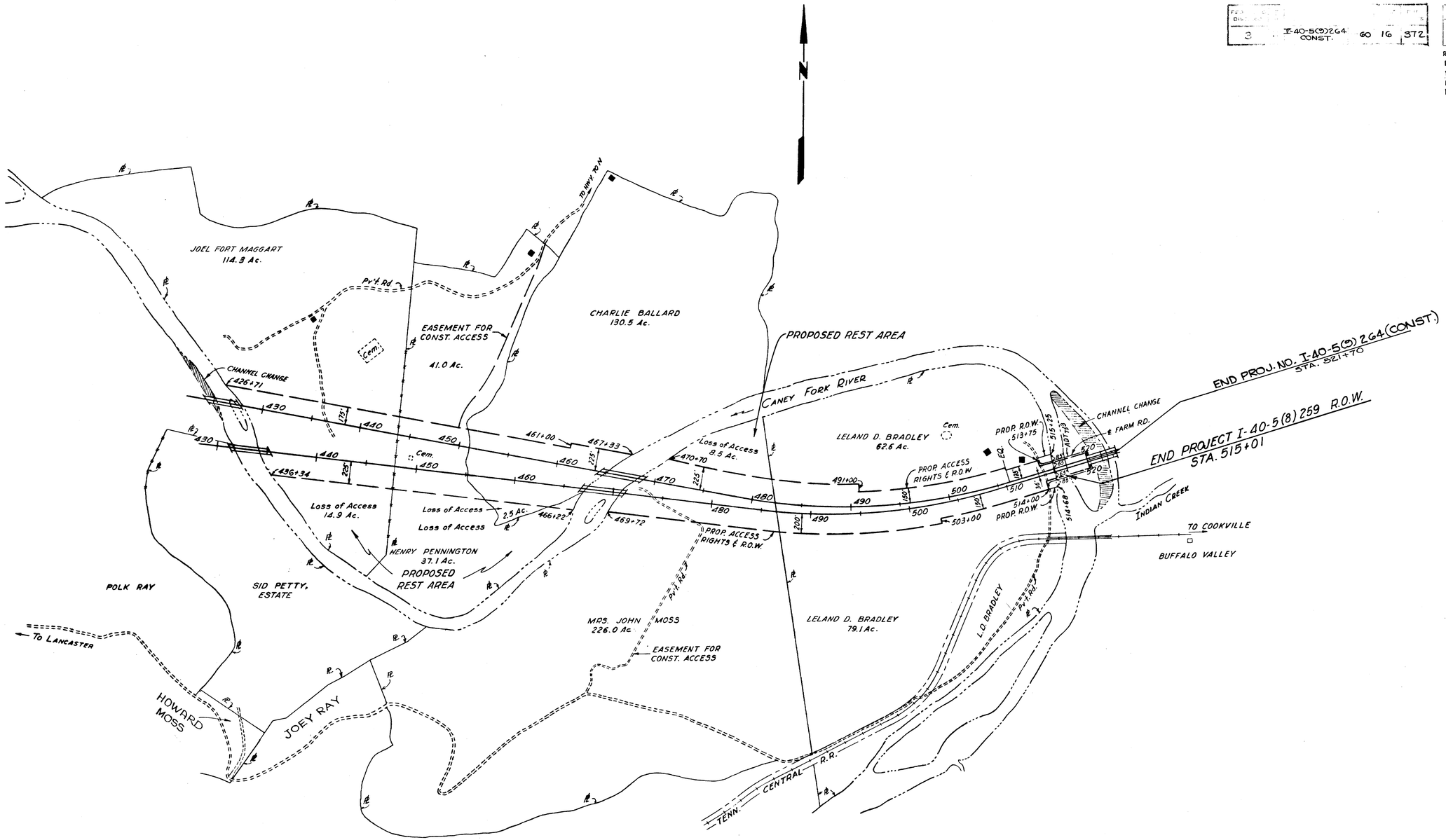
PROPERTY LINE MAP SMITH COUNTY STA. 300+00 TO 430+00

STATE OF TENNESSEE
DEPARTMENT OF HIGHWAYS AND PUBLIC WORKS
NASHVILLE

	DATE
DR. J.L.M.	1-4-59
CHK'D M.L.S.	4-14-59
APP'D.	

FED. ROAD DIST. No.	STATE	FEDERAL AID PROJECT No.	FISCAL YEAR	SHEET No.	TOTAL SHEETS
3	I-40-5(8)264 CONST.	60 16 372			
	TENN.	I-40-5(8)259 R.O.W.	1959	9	25

REVISED 7-15-59 : HOUSES & PROPOSED REST AREAS ADDED.
REV. 4-8-60 : CORRECTED PROPERTY LINES OF SID PETTY AND MRS. JOHN MOSS, ADDED PROPERTY OWNERS HOWARD MOSS AND JOEY RAY.



Scale: 1" = 500'

NOTE:
ACREAGES ON THIS SHEET ARE THOSE REMAINING ON EITHER SIDE OF INTERSTATE R.O.W., SEE R.O.W. SHEETS FOR ACREAGES TAKEN.

HOUSE = ■

MID-SOUTH ENGINEERING CO., INC.
820 BROADWAY, N. E. KNOXVILLE, TENNESSEE

PROPERTY LINE MAP
SMITH COUNTY
STA. 430+00 TO 515+00

STATE OF TENNESSEE
DEPARTMENT OF HIGHWAYS AND PUBLIC WORKS
NASHVILLE

	DATE
DR. J.L.M.	1-5-59
CHK'D MLS	4-5-59
APP'D.	

24

FED. DIST. No.		FEDERAL AID PROJECT No.	FISCAL YEAR	SHEET No.	TOTAL SHEETS
3	CONST.	I-40-5(10)259	1959	17	25
	R.O.W.				

REVISED 7-15-59: FRONTAGE ROAD ADDED.
REVISED 7-31-59: LINE CHANGE W.B.L. AHEAD OF STA. 282.

REVISED 10-4-60 CORRECTED PROPERTY OWNER'S NAME ON TRACT No. 26

DIST.	TOTAL SHEETS
3	17

I-40-5(10)259 CONST.

L.B. COWAN et. al.
TRACT Nº 26

BEN ROWLAND
TRACT Nº 28
PARCEL Nº 1 = 33.16 Ac. C.A.
PARCEL Nº 2 = 0.04 Ac. U.C.A.
TOTAL = 33.20 Ac.

R.T. PARKER
TRACT Nº 30
12.42 Ac.

"B" PROPOSED R.O.W.
"C" ℄ FRONTAGE ROAD
PROP. ACCESS RIGHTS
PROPOSED ACCESS RIGHTS & R.O.W.
PARCEL Nº 2
PARCEL Nº 1
Grading Limits
W.B. LANE
E.B. LANE
MATCH LINE
BEN ROWLAND
PARCEL Nº 1
PROPOSED ACCESS RIGHTS & R.O.W.
BEN ROWLAND
PASCHEL HARP
TRACT Nº 29
PARCEL Nº 1 = 13.71 Ac C.A.
PARCEL Nº 2 = 4.45 Ac. C.A.
TOTAL = 18.16 Ac.
CHANNEL CHANGE
Pond
Barn
Smoke House
Fr. Dw.
U.E.M.C. 2 WIRES
3 Steel Lines
1 Tel Line
℄ Slough ℄
TENN. CENTRAL R.R.
R.R. R/W
R.R. R/W

S 79° 30' E. 316'
S 40° 23' E.
N 82° 29' E. 83'
N 00° 09' E. 124'
N 55° 19' E. 180'
S 86° 54' E.
S 10° 06' W.
S 44° 04' E.

261+00
263+00
263+48
265+94
266+42
262+23.44
250+96
260+92
270+28.44
281+20
281+12
283+36
286+32
279+72
288+00

EASTBOUND
P.I. = 266+26.60
N-642,420.00
E-2,035,100.12
Δ = 8°-03' Lt.
D = 1°-00"
R = 5,729.58'
T = 403.16'
L = 805.00'
E_c = 14.17'

END PROJ. NO. I-40-5(10)259(CONST)
~~BEGIN PROJ. NO. I-40-5(9)264 (CONST.)~~
STA. 265+70 (W.B.L.)
STA. 264+15 (E.B.L.)

Scale: 1" = 100'

INTERSTATE ROUTE I-40
SMITH COUNTY

MID-SOUTH ENGINEERING CO., INC.
820 BROADWAY, N. E. KNOXVILLE, TENNESSEE

RIGHT OF WAY PLANS
STA. 260+00 TO 290+00

STATE OF TENNESSEE
DEPARTMENT OF HIGHWAYS
AND PUBLIC WORKS
NASHVILLE

	DATE
DR. J.L.M.	1-13-59
CHK'D. MLS	4-13-59
APP'D	

17

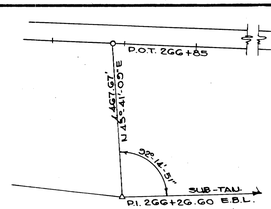
TENN. STATE HIGHWAYS
Plans | File
Dwn. | No. 50

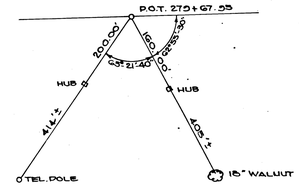
PLAN	SURVEYED / PLOTTED / ALIGNMENT CHECKED / RT. OF WAY CHECKED
NOTE BOOK	
NO.	

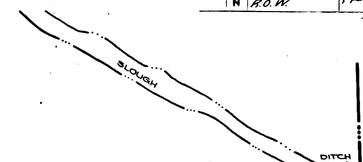
PROFILE	SURVEYED / PLOTTED / GRADES CHECKED / R.R. CROSS. & HWY. CROSS. NOTATNS CH'KD
NOTE BOOK	
NO.	

BY | DATE

EASTBOUND
P.I. 266+26.60
N-642,420.00
E-2,035,100.12
Δ = 8°-03' Lt.
D = 1°-00'
R = 5,729.58'
T = 403.16'
L = 805.00'
E_c = 14.17'
S.E. = 0.0322 ft/ft.







MID-SOUTH ENGINEERING CO.

FED. ROAD DIST.	TENN	FEDERAL AID PROJECT No.	FISCAL YEAR	SHEET No.	TOTAL SHEETS
		I40-5(8)259 R.O.W.	1959	17A	25

TOTAL SHEETS	372
SHEET NO.	17-A
FISCAL YEAR	60
PROJECT NO.	I-40-5(10)264 CONST.
STATE	TENN
NO.	3

MATCH LINE SHEET Nº 16A

MATCH LINE SHEET Nº 18A

P.C. 262+23.44

P.T. 270+28.44

DITCH

Pond

E.B. LANE

S 44°-04' E.

66'

24'

DITCH 10' BOTTOM

FELICE ITEM 173-7

BEGIN PROJ. NO. I-40-5 (5) 264 (CONST.)
STA. 264+15 ON EAST BOUND LANES

BM #5 EL. 506.52
SPIKE IN 14" SYCAMORE
350' RT. OF 283+50 E.B.L.

EASTBOUND LANE

EXC. UNCL. 7,770 (ADDITIONAL 7,220 TO BE OBTAINED FROM W.B.L. STA. 263+)
EMB. 13,503
UNCL. 13% SHR.
+15

EXC. 173,505
EMB 154,156
COM 12% SHR.
SR. 25% SW.
COM. 158,636 (ADDITIONAL 1,440 TO BE OBTAINED FROM W.B.L. STA. 270±)
SR. 4,813 (1,150 TO BE USED ON W.B.L. STA. 295±)
(INCLS 1,610 ROCK FILL)

+0.220%
P.V.C. 259.64
1500' VC
P.V.I. 263+50.28
P.V.I. 273+42.45
-1.30%
EXIST. GROUND
Finished Grade
FINISHED GRADE
P.V.T. EL. 339.45
STA. 275+00 E.B.L.
170' OF 66" CGM PIPE CULV REQ'D
SKEW 90°
DES. H.D. REINF. CONC. SPLITTED-BEVELLED ENDS
DWG. NO. CM-1-4.9.17

560 550 540 530 520 510 500 490 480

260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290

PLATE 1 PLAN - PROFILE B P R STANDARD
EUGENE DIETZGEN CO. CHICAGO NEW YORK

17A

Printed in U.S.A. On IMPERIAL Tracing Cloth

TENN. STATE HIGHWAYS
Plans File IN-
Divn. No. 50

PROJ. ROAD DIST.	T E N N	FEDERAL AID PROJECT No.	FISCAL YEAR	SHEET No.	TOTAL SHEETS
		I-40-5(8)239 R.O.W.	1959	178	25

MID-SOUTH ENGINEERING CO.

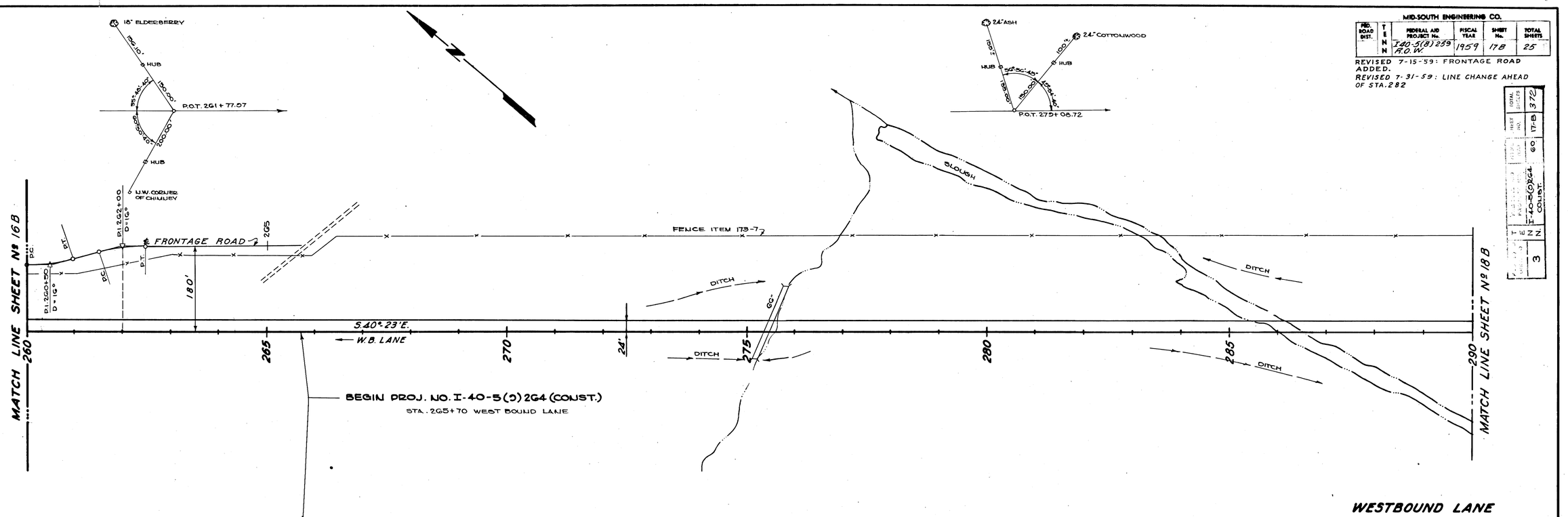
REVISED 7-15-59: FRONTAGE ROAD ADDED.
REVISED 7-31-59: LINE CHANGE AHEAD OF STA. 282

PROJECT NO.	TOTAL SHEETS
I-40-5(10)64 CONST.	372
	17-B
	60
T E N N	3

DESIGNED
PLOTTED
E.B.L. SUPERVISOR
E.B.L. RATES
STRUCTURE INITIATING CH'GD

PLAN
DATE DONE
BY

PROFILE
DATE DONE
BY



WESTBOUND LANE

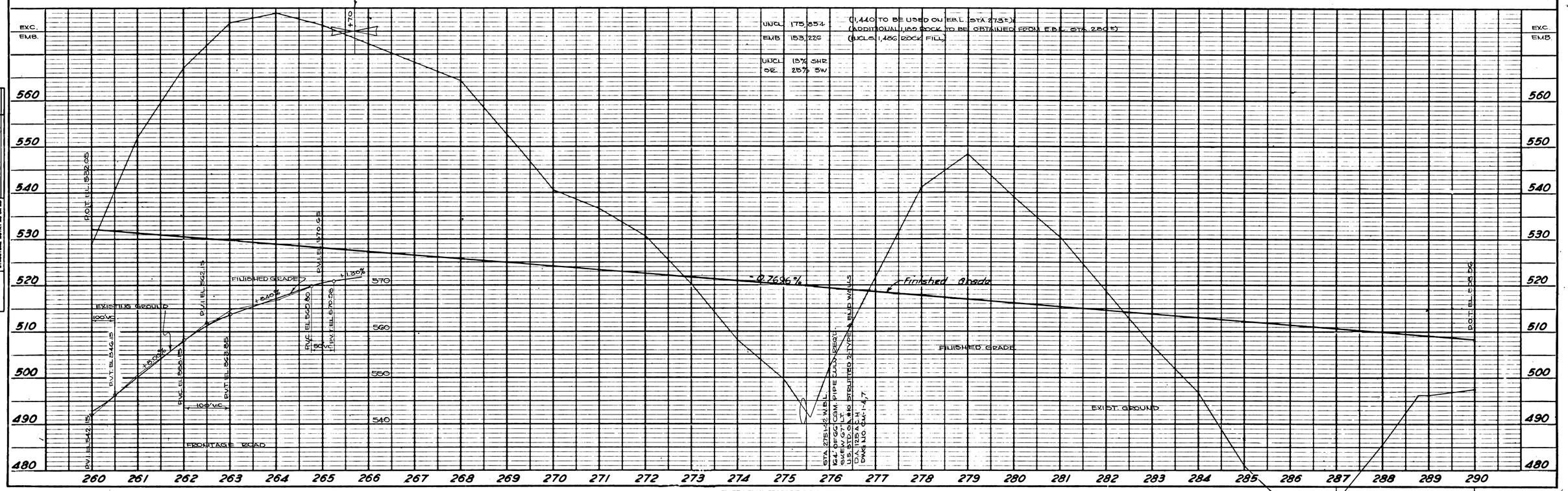


PLATE 1 PLAN - PROFILE B P R STANDARD
EUGENE DIETZGEN CO. CHICAGO - NEW YORK

17 B

Printed in U.S.A. On IMPERIAL Tracing Cloth

TENN. STATE HIGHWAYS

Plans File 1N6

Plats Vol. 24

FED. ROAD DIST. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
3	TENN	I-40-5(9)264 CONSTR.	60	18	372

FED. ROAD DIST. No.	STATE	FEDERAL AID PROJECT No.	FISCAL YEAR	SHEET No.	TOTAL SHEETS
3	TENN	I-40-5(8) 259 R.O.W.	1959	18	25

REVISED 7-31-59: LINE CHANGE W.B.L.
REV: 12-11-59, CORRECTED CURVE DATA.

WESTBOUND
P.I. = 321+48.23
N - 638,596.69
E - 2,038,962.77
Δ = 50° 34', Lt.
Δ_c = 41° 34'
D = 3° 00'
R = 1,909.86'
L_c = 1,385.56'
T_s = 1,052.08'
L_s = 300'
Q_s = 4° 30'
K = 149.97'
P = 1.96'
X_c = 299.81'
Y_c = 7.85'
E_s = 204.50'

DEWEY WATSON
TRACT Nº 31
24.00 Ac. C.A.

MATCH LINE

RIVER

FORK

CANEY

R.T. PARKER
TRACT Nº 30

PASCHEL HARP
TRACT Nº 29
PARCEL Nº 2

PASCHEL HARP
TRACT Nº 29

DEWEY WATSON

CARL E. & GERALD KIRBY
TRACT Nº 32

PARCEL Nº 1

Pond

Shed

Shed

WELL

Shed

FF DW.

PROPOSED ACCESS RIGHTS & R.O.W.

PROPOSED ACCESS RIGHTS

PARCEL Nº 2

PROPOSED R.O.W.

Channel

Grading Limits

DITCH

W.B. LANE

E.B. LANE

S 40°-23' E

S 44°-04' E.

S 5°-04' E.

S 32°-30' W

S 78°-00' E

S 71°-00' E

S 25°-30' E

S 5°-30' E

S 58°-20' E.

N 13°-00' W

T.S. 310+96.15

S.C. 313+96.15

T.S. 309+42.98

S.C. 311+61.98

"A"

"B"

"C"

EASTBOUND
P.I. = ~~320+32.14~~ 320+30.81
N - 638,535.00
E - 2,038,860.56
Δ = 46° 53', Lt.
Δ_c = 40° 38'
D = 2° 30'
R = 2,291.83'
L_c = 1,625.33'
T_s = 1,119.22'
L_s = 250'
θ_s = 3° 07' 30"
k = 124.99'
p = 1.13'
X_c = 249.93'
Y_c = 4.54'
E_s = 207.40'

Scale: 1" = 100'

INTERSTATE ROUTE I-40
SMITH COUNTY

MID-SOUTH ENGINEERING CO., INC.
820 BROADWAY, N. E. KNOXVILLE, TENNESSEE

RIGHT OF WAY PLANS
STA. 290+00 TO 320+00

STATE OF TENNESSEE
DEPARTMENT OF HIGHWAYS
AND PUBLIC WORKS
NASHVILLE

		DATE
DR.	J.L.M.	1-14-59
CHK'D.	M.L.S.	1-14-59
APP'D.		

PROJECT NO.	YEAR	SHEET NO.
IR-40-5(91)257	1989	17

END SUPERPAVE UNDER PROJ. NO. IME-40-5(115)259

REMOVE AND REPLACE GUARDRAIL AND REPLACE TYPE 13 ANCHOR UNDER PROJ. NO. IME-40-5(115)259

W.B. LANE

Slough

RIVER

River Mi. 15.0

FORK

CHANNEL CHANGE BOTTOM EL. 1461

PROP. GUARD RAIL

PROP. STONE UNDERDRAINS

PROP. STONE UNDER-DRAINS

Ditch 10' Bottom

24"

Ditch

S. 44°-04' E.

E.B. LANE

CANEY

FENCE ITEM 173-7

Slough

295+09

2 6 3 (23)

T.S. 309+~~32.32~~

S.C. 311+~~82.32~~

PROP. STONE UNDERDRAINS

Ditch

MATCH LINE SHEET Nº 19A

320

REV 2-25-99: DELETED BLOCK FOR PROPOSED ROCK BENCH.

EASTBOUND

P.I. = 320+~~32.14~~ 30.81
N-638,535.00
E-2,038,860.56
$\Delta = 46°-53'$; Lt.
$\Delta_c = 40°-38'$
$D = 2°-30'$
$R = 2,291.83'$
$L_c = 1,625.33'$
$T_s = 1,119.22'$
$L_s = 250'$
$\theta_s = 3°-07'-30''$
$k = 124.99'$
$p = 1.13'$
$X_c = 249.93'$
$Y_c = 4.54'$
$E_s = 207.40'$
S.E. = 0.0806 ft/ft.

FED. ROAD DIST. NO.	T E N	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
3		I-40-5(34)259 PAVING	1970	21	57

TYPE	YEAR	PROJECT NO.	SHEET #
RESURF.	1999	IME-40-5(115)259	17

3 | I-40-5(A)264 CONSTR. | 1960 | 18A | 372

REV. 10-16-61: CORRECTED CURVE DATA

FED. ROAD DIST. NO.	T E N	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
3		I-40-5(19)257 PAVING	1961	19	40

CHAN. 2,000 (UNCLASS.) TO BE DISPOSED OF AS DIRECTED BY THE ENGINEER

BOR. COM. 3,800 COM. 84,229
EXC. 95,243 S.R. 11,014
EMB. 92,017 (INCLS. 10,156 ROCK FILL)

BOR. 12% SHR.
COM. 12% SHR.
S.R. 32% SW.

EASTBOUND LANE

EXC. / EMB.

540 530 520 510 500 490 480 470 460

-1.50%

P.V.C. El. 511.70

Beg. Br. Sta. 296+15.74

1200' V.C.

End Br. Sta. 308+03.74

P.V.T. El. 511.70

+1.50%

P.V.C. El. 524.45

1400' V.C.

P.V.I. El. 534.95

Finished Grade

Exist. Ground

H.W. 497.7

P.V.I. El. 502.70

0.50% DITCH RT.

+28

290 291 292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320

Sta. 315+50
104'-0" of 24"-Std. Str. Conc. Pipe Culv. Req'd.
Skew 90° 2-Str. Conc. E.W.
D.A. = 8.4 sq. M.
Dwg. Nº E-2-90

BRIDGE Nº 1A

1-7 Span Precast Prestressed Box Girder Composite Section Bridge Req'd.
1-Span @ 54'; 3-Spans @ 63'; 2-Spans @ 90'; 1-Span @ 65'
Total Length 488'
30' Roadway with Safety Curbs
71°-00' Skew (See Bridge Dwg. Nº G-15-36)

TENN. STATE HIGHWAYS
Plans File No. 50

PROP. TYPE 38 ANCHORS UNDER PROJ. No. IME-40-5(115)259

Nail & Tin In 10" White Oak
Nail & Cap In 8" White Oak
Tack In Hub @ Fence Line
Tack In Hub @ Fence Line
42°30'20"
1380.4'
1389.56'
247.80'
77°49'20"
℄ W.B.L.
Sub-Tan.
T.S. 310+96.15

PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
I-40-5(9)257	1969	18	

TYPE	YEAR	PROJECT NO.	SHEET #
RESURF.	1999	IME-40-5(115)259	18

WESTBOUND
P.I.-321+48.23
N-638,596.69
E-2,038,962.77
Δ=50°-34'-Lt.
Δ_s=41°-34'
D=3°-00'
R=1,909.86'
L_c=1,385.56'
T_s=1,052.08'
L_s=300'
θ_s=4°-30'
k=149.97'
p=1.96'
X_c=299.81'
Y_c=7.85'
E_s=204.50'
S.E.=0.0967 ft./ft.

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
3	TENN.	I-40-5(9)264 CONSTR.	1960	18B	372

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
3	TENN.	I-40-5(19)259 PAVING	19 69	20	40

24
263

PROP. GUARDRAIL
PROP. STONE UNDERDRAINS
295'-6"
RIVER
Ditch 12' Bottom
PROP. STONE UNDER DRAINS
TYPE 2
FENCE ITEM 173-7
W.B. LANE
24'
T.S. 310+96.15
S.C. 313+96.15
24"
PROP. STONE UNDERDRAINS
MATCH LINE SHEET No 18B
S. 40°-23' E.
290
295
300
305
310
315
320
FORK
River Mi. 15.0
CANEY
CHANNEL CHANGE
BOTTOM EL 461
TYPE 2
PROPOSED GUARDRAIL
Ditch
Ditch
E.B. LANE
REMOVE AND REPLACE GUARDRAIL UNDER PROJ. NO. IME-40-5(115)259

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
3	TENN.	I-40-5(34)259 PAVING	19 70	22	57

WESTBOUND LANE
PVI El.533.93
EXC. EMB.

GRADING QUANTITIES INCLUDED WITH E.B. LANE

+20

EXC. EMB.
520
510
500
490
480
470
460
450
440

PVC El.505.89
BEG. BRIDGE STA. 295+93.00
END BRIDGE STA. 301+03.00
1600' V.C.
PVT El.514.13
+1.80%
PVC El.519.53
1.0%
1600' V.C.
-0.7696%
Finished Grade
H.W. 497.7
PVI El.499.73
1.5%
DITCH LT.
Exist. Ground

290 291 292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321

BRIDGE No 1B
1-7 Span Precast Prestressed Box Girder
Composite Section Bridge Req'd.
1-Span @ 66'-6"; 3-Spans @ 67'; 2-Spans @ 90'; 1-Span @ 62'-6"
Total Length 510'
30' Roadway with Safety Curbs
73°-40' Skew (See Bridge Dwg. No 6-15-45)

Sta. 315+00
116' of 24" Std. Str. Conc. Pipe Culv. Req'd.
Skew 90° 2-Str. conc. E.W.
D.A.-10.4 Sq. Mi.
Dwg. No. 2-2-90

TENN. STATE HIGHWAYS
Plans Div. File IN- No. 24

FED. ROAD DIST. NO.	T E N N.	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
3		I-40-5(9)264 CONSTR.	1960	19	372

FED. ROAD DIST. No.	T E N N	FEDERAL AID PROJECT No.	FISCAL YEAR	SHEET No.	TOTAL SHEETS
3		I-40-5(8)259 R.O.W.	1959	19	25

REVISED 7-15-59: TRACT NO. 33, ADDED TRACT NO. 47.
REVISED 7-31-59: LINE CHANGE W.B.L.
REV. 12-11-59: CORRECTED CURVE DATA.
REVISED 2-24-60: ADDED AREAS 2 EASEMENTS

REVISED FEB. 18, 1960
POND, CRIB, & PIG PARLOR ADDED ON RT., STA. 323±, 324± AND 329±.

Scale: 1" = 100'

INTERSTATE ROUTE I-40
SMITH COUNTY

MID-SOUTH ENGINEERING CO., INC.
820 BROADWAY, N. E. KNOXVILLE, TENNESSEE

RIGHT OF WAY PLANS
STA. 320+00 TO 350+00

STATE OF TENNESSEE
DEPARTMENT OF HIGHWAYS
AND PUBLIC WORKS
NASHVILLE

	DATE
DR. J.L.M.	1-14-59
CHK'D. MLS	4-14-59
APP'D.	

7

TENN. STATE HIGHWAYS
Plan File No. 1N-50

PROJECT NO.	YEAR	SHEET NO.
IR-40-5(71)259	1989	19

P.O.T. 347+49.11
℄ E.B.L.
Tan. to Curve 200'
Tan. to Curve 200'
Nail & Cap in 36" Hackberry in Fence Line
Nail & Cap in P.P.

3 I-40-5(4)264 CONSTR. 1960 19A 372

FED. ROAD DIST. NO.	T E N N.	FEDERAL AID PROJECT NO.	TOTAL SHEET NO.	TOTAL SHEETS
3		I-40-5(19)259 PAVING	21	40

REV. 10-16-92: CORRECTED CURVE DATA

TYPE	YEAR	PROJECT NO.	SHEET #
RESURF	1999	IME-40-5(115)259	19

FED. ROAD DIST. NO.	T E N N.	FEDERAL AID PROJECT NO.	FINAL YEAR	SHEET NO.	TOTAL SHEETS
3		I-40-5(19)259 PAVING	1970	23	57

MATCH LINE SHEET Nº 18A
Pond
320
325
#33 C.B. G-515.5 FL-513.4
C.S. 327+88.92
88.92
36.92
ST. 330+36.92
PROP. GUARD RAIL
#33 C.B. G-508.2 FL-506.1
330
TYPE 2
FARM ROAD
Island
Island
335
RIVER MI. 16.6
FORK
RIVER
PROP. TYPE 38 ANCHORS UNDER PROJ. No. IME-40-5(115)259
PROP. TYPE 13 ANCHOR UNDER PROJ. NO. IME-40-5(115)259
W.B. LANE
340
24'
60'
325
#33 C.B. G-513.2 FL-511.1
350
MATCH LINE SHEET Nº 20A
PROP. STONE UNDER DRAINS
TYPE 3
L-502.0
15"
FL-507.4
70'
N.89°-03'E.
E.B. LANE
15"
TYPE 2
FL-507.0
PROP. GUARD RAIL
FL-510.0
SEE SHEET 19C
(1 SP)
FL-502.0
PROP. GUARD RAIL
Ditch
PROP. STONE UNDER DRAINS
347+89
FENCE ITEM 173-7
MATCH LINE
Channel Change 200' Bottom El. 462
Island
CANEY
MATCH LINE
Island
PILOT CHANNEL (25' Wide Bottom) El. 462
25
2
6
4
8'
30' to PGL
2:1
ROCK FILL

SECTION THRU SPILLWAY
@ 336+29 ± E.B.L.
@ 337+23 ± W.B.L.
@ 435+68 ± E.B.L.
@ 470+78 ± E.B.L.
@ 515+38 ± E.B.L. & W.B.L.

BM 36F347 El. 596.74
Drill Hole in Rock
500' Lt. Sta. 328+25 E.B.L.

EASTBOUND LANE

+45 EXC. 28,399 EMB. 36,647 (INCLS. 24,012 R.F.)
COM. 1,376
S.R. 27,023
CHAN. 12,600
TO BE DISPOSED OF AS DIRECTED BY THE ENGINEER
+59
COM. 30% SHR.
S.R. 30% S.W.

EXC. EMB.

540 530 520 510 500 490 480 470 460

PVI El. 534.95
-1.94%
PVT El. 521.37
1400' V.C.
PVC El. 514.58
BEG. BRIDGE STA. 331+35.00
END BRIDGE STA. 336+55.00
1600' V.C.
PVT El. 520.74
+2.709 4%
Finished Grade
FARM ROAD
H.W. 457.0
499.06
PVI El.
Exist. Ground

320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350

MEDIAN DRAINS & SPILLWAYS

LOCATION	TYPE	DWG. Nº	DIMENSIONS DEPTH	DIMENSIONS DIAM.	CLASS "A" CONC. C.Y.	STEEL LBS.	METAL END SECTION	CASTING LBS. CL. 20	CASTING LBS. CL. 30
327+00	#33 C.B.	M-D-2	2'-1"		1.35				145
327+00	Met. E.S.	CM-1-6		15"			1		
331+00	#33 C.B.	M-D-2	2'-1"		1.35				145
331+00	Met. E.S.	CM-1-6		15"			1		
346+00	#33 C.B.	M-D-2	2'-1"		1.35				145
346+00	Met. E.S.	CM-1-6		15"			1		
1%	Spillway	P-S-8			3.25	87			
		TOTAL			7.30	87	3		435

* SEE DETAIL ABOVE

PIPES (MEDIAN DRAINS)

FROM LOCATION	FROM ELEV.	TO LOCATION	TO ELEV.	GRADE %	SIZE (IN.) & LENGTH (FT.) 15"	METAL ELBOWS
327+00	513.4	RT.	510.0	2.3	150	
331+00	506.1	RT.	502.0	4.9	84	
346+00	511.1	RT.	507.0	3.8	108	
				TOTAL	342	

BRIDGE Nº 2A
1-5 Span Precast Prestressed "I" Beam Bridge Req'd.
2-Spans @ 89'-6"; 3-Spans @ 89'
Total Length 445'
30' Roadway with Safety Curbs
52°-00' Skew (See Bridge Dwg. Nº G-15-54)

TENN. ST. TE HIGHWAYS
Plans File 1N
Plan No. 50

MID-SOUTH ENGINEERING CO.

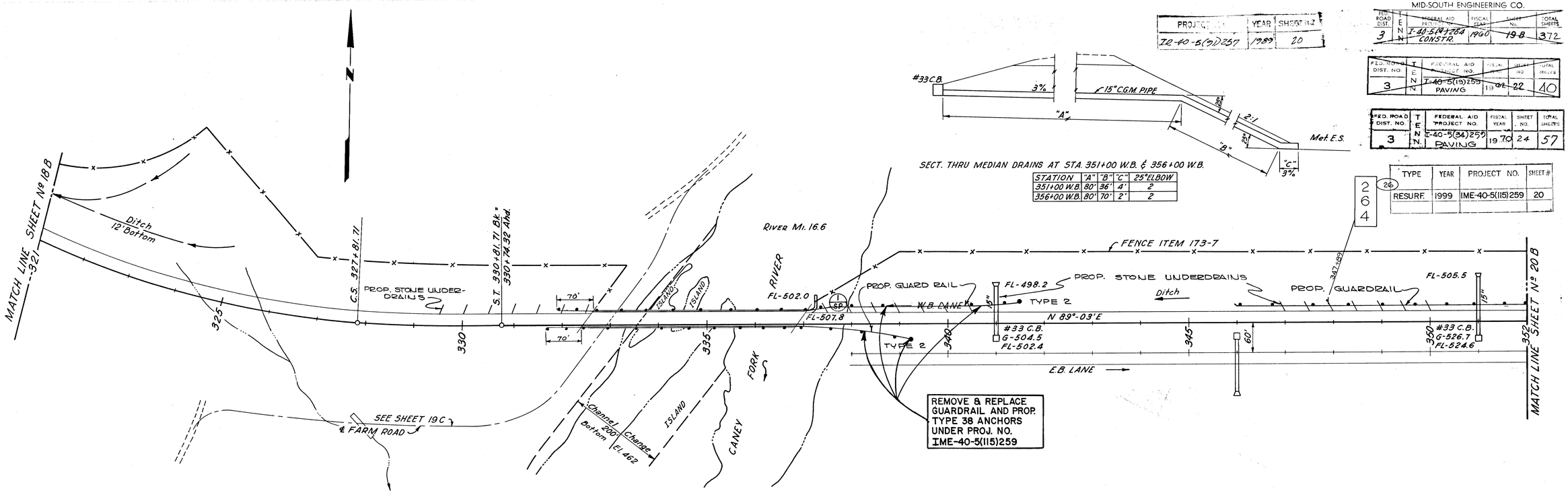
FED. ROAD DIST.	T E N N	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
3		I-40-5(9)264 CONSTR.	1960	19-B	372

FED. ROAD DIST. NO.	T E N N	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL MILES
3		I-40-5(19)259 PAVING	19 67	22	40

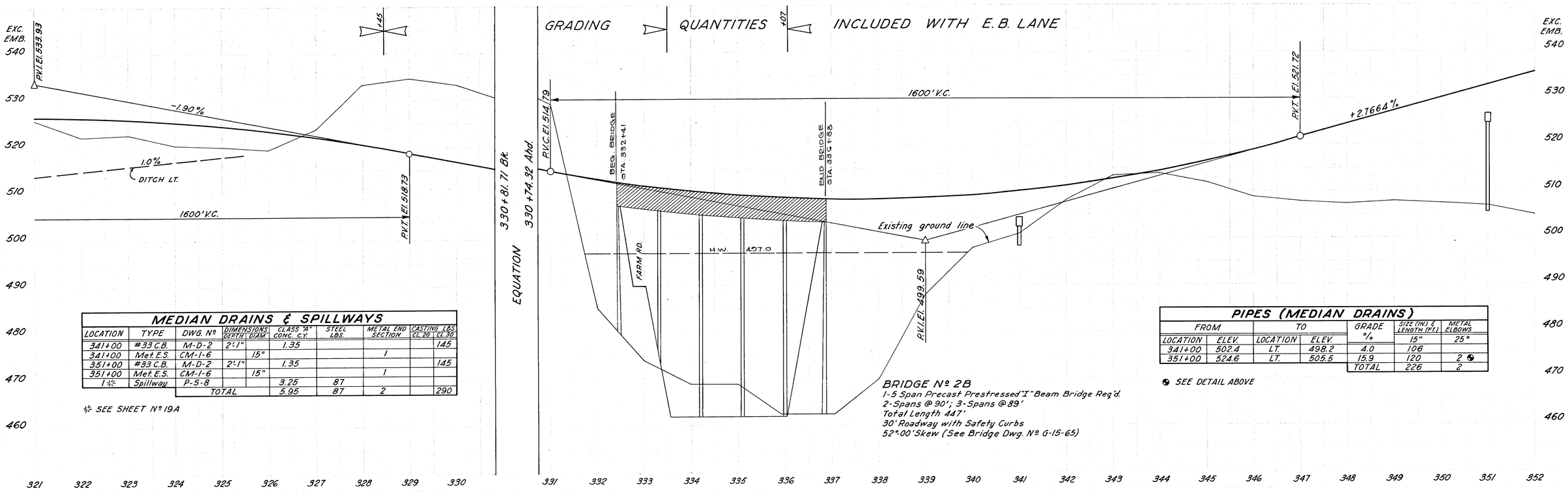
FED. ROAD DIST. NO.	T E N N	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
3		I-40-5(34)259 PAVING	19 70	24	57

PROJECT NO.	YEAR	SHEET NO.
IR-40-5(9)257	1959	20

TYPE	YEAR	PROJECT NO.	SHEET #
RESURF.	1999	IME-40-5(115)259	20



WESTBOUND LANE



MEDIAN DRAINS & SPILLWAYS

LOCATION	TYPE	DWG. Nº	DIMENSIONS DEPTH	DIMENSIONS DIAM.	CLASS "A" CONC. C.Y.	STEEL LBS.	METAL END SECTION	CASTING LBS CL. 20	CASTING LBS CL. 30
341+00	#33 C.B.	M-D-2	2'-1"		1.35				145
341+00	Met. E.S.	CM-1-6		15"			1		
351+00	#33 C.B.	M-D-2	2'-1"		1.35				145
351+00	Met. E.S.	CM-1-6		15"			1		
1%	Spillway	P-S-8			3.25	87			
TOTAL					5.95	87	2		290

1% SEE SHEET Nº 19A

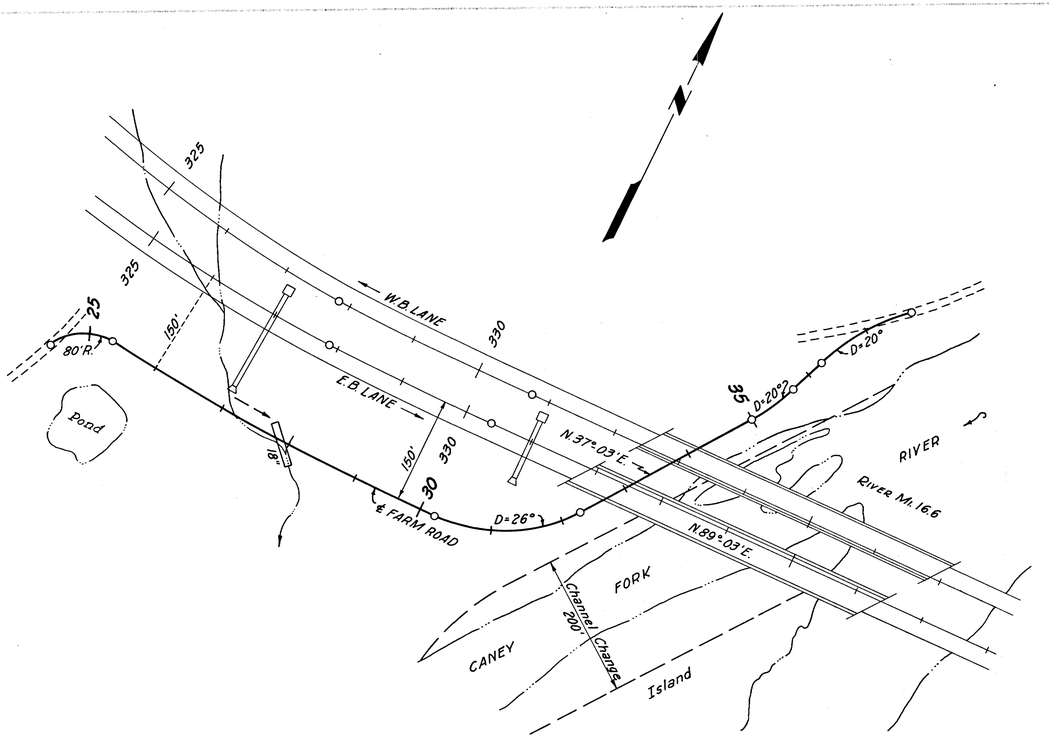
PIPES (MEDIAN DRAINS)

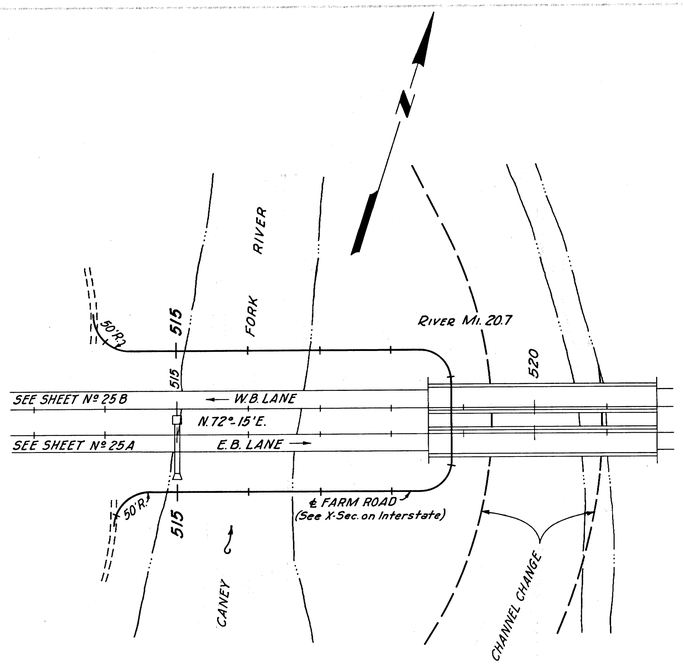
FROM LOCATION	FROM ELEV.	TO LOCATION	TO ELEV.	GRADE %	SIZE (IN.) & LENGTH (FT.)	METAL ELBOWS
341+00	502.4	LT.	498.2	4.0	15" 106	
351+00	524.6	LT.	505.5	15.9	15" 120	2 ◔
				TOTAL	226	2

◔ SEE DETAIL ABOVE

BRIDGE Nº 2B

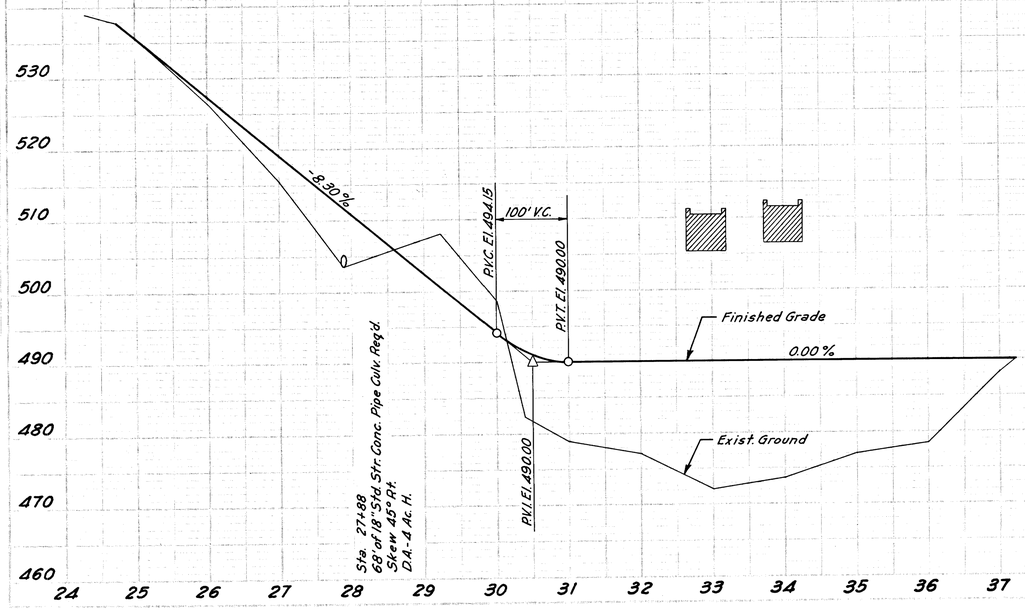
1-5 Span Precast Prestressed "I" Beam Bridge Req'd.
2-Spans @ 90'; 3-Spans @ 89'
Total Length 447'
30' Roadway with Safety Curbs
52°-00'Skew (See Bridge Dwg. Nº G-15-65)

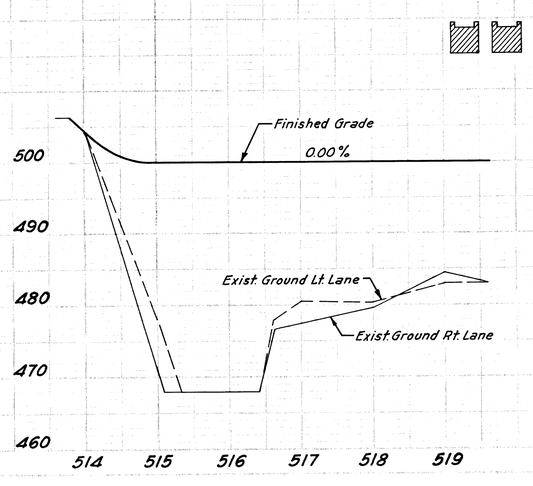




FARM ROADS
@ STA. 332 ±
@ STA. 518 ±

GRADING QUANTITIES INCLUDED WITH INTERSTATE



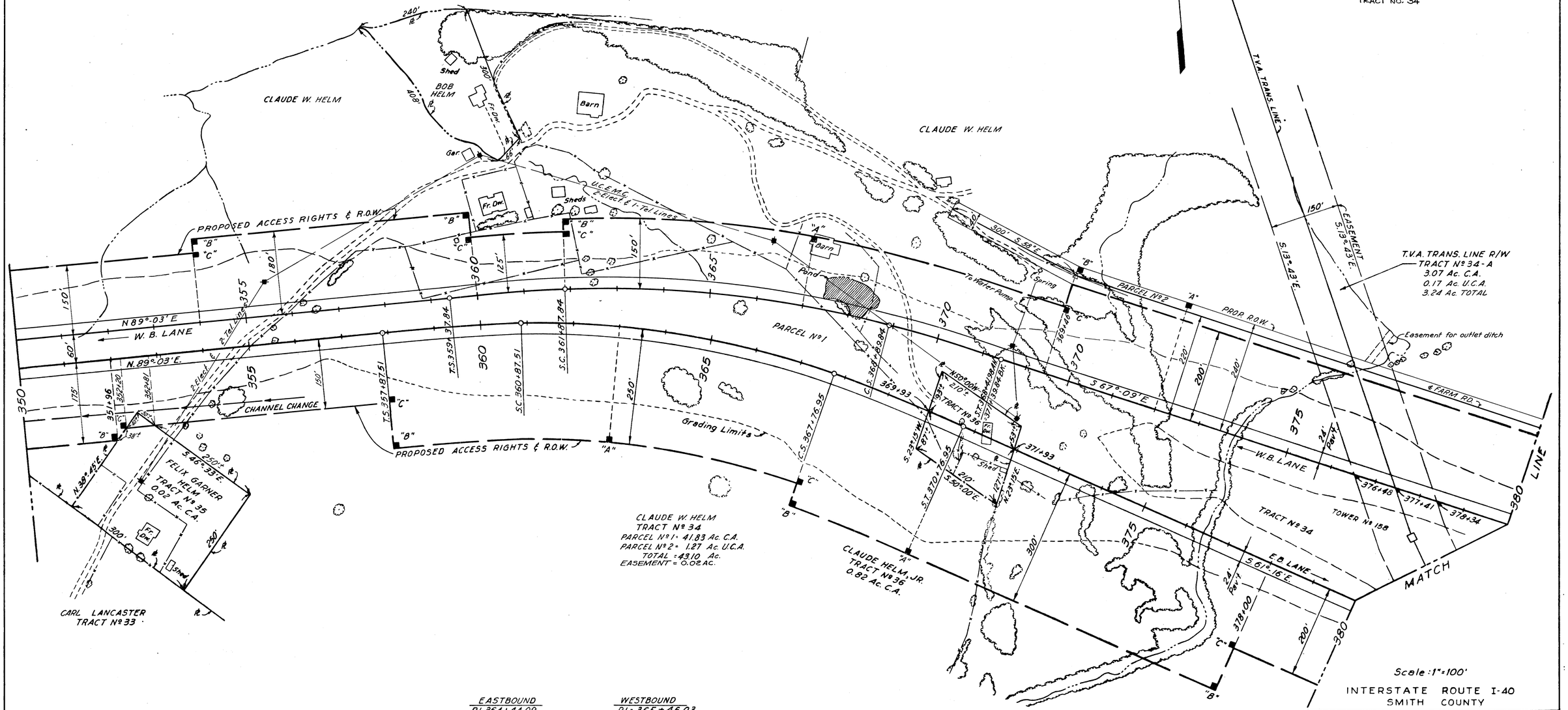


TENN. SPEC. FILE COPY
Proj. No. 24
Dr. R.

FED. ROAD DIST. NO.	T E N N.	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
3		I-40-5(8)264 CONSTR.	1960	20	372

FED. ROAD DIST. No.	T E N N	FEDERAL AID PROJECT No.	FISCAL YEAR	SHEET No.	TOTAL SHEETS
3		I-40-5(8)259 R.O.W.	1959	20	25

REVISED 7-15-59; TRACTS Nº 33, 34 & 35 REV.
REVISED 7-31-59: LINE CHANGE W.B.L. BACK OF STA. 369
REVISED 12-11-59: CORRECTED Δ OF CURVE ON W.B. LANE
REVISED 2-24-60: ADDED EASEMENT AREA TRACT NO. 34



EASTBOUND	WESTBOUND
P.I. 364+44.09	P.I. = 365+46.03
N-638,610.03	N-638,671.71
E-2,043,385.00	E-2,043,485.94
Δ = 29°-41', Rt.	Δ = ~~23°-42', Rt.~~ 23°48'
Δ_c = 20°-41'	Δ_c = 17°-33'
D = 3°-00'	D = 2°-30'
R = 1,909.86'	R = 2291.83'
L_c = 689.44'	L_c = 702.00'
T_s = 656.58'	T_s = 608.19'
L_s = 300'	L_s = 250'
θ_s = 4°-30'	θ_s = 3°-7'-30"
k = 149.97'	k = 124.99'
p = 1.96'	p = 1.13'
X_c = 299.81'	X_c = 249.93'
Y_c = 7.85'	Y_c = 4.54'
E_s = 67.94'	E_s = 51.49'

Scale: 1" = 100'

INTERSTATE ROUTE I-40
SMITH COUNTY

MID-SOUTH ENGINEERING CO., INC.
820 BROADWAY, N. E. KNOXVILLE, TENNESSEE

RIGHT OF WAY PLANS
STA. 350+00 TO 380+00

STATE OF TENNESSEE
DEPARTMENT OF HIGHWAYS AND PUBLIC WORKS
NASHVILLE

DR. J.L.M.	DATE 1-15-59
CHK'D. M.L.S.	4-13-59
APP'D.	

TENN. DEPT. OF HIGHWAYS
Plans File No. IN-
Divn. No. 50

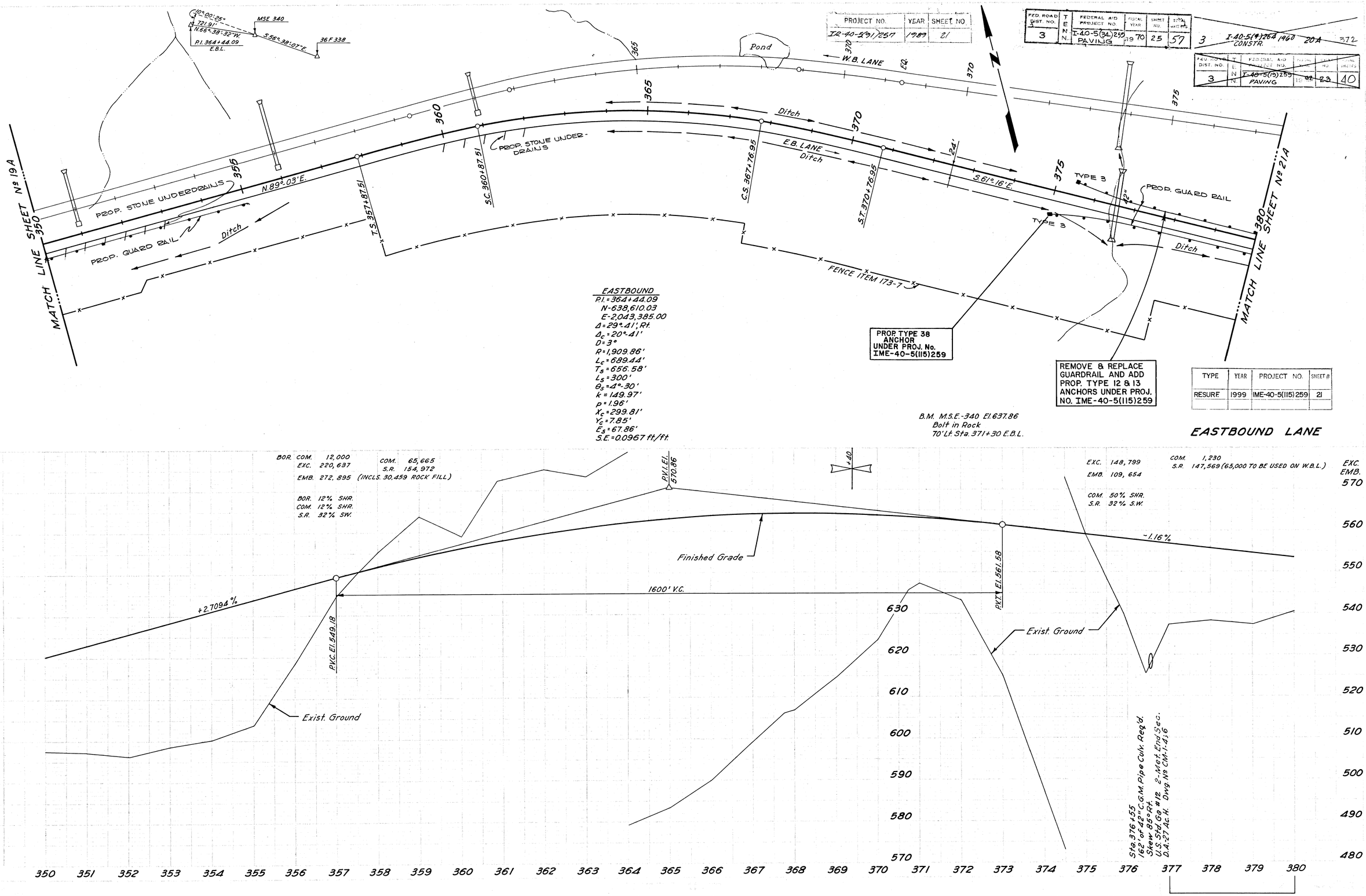
MICROFILMED

PROJECT NO.	YEAR	SHEET NO.
IR-40-5(91)257	1989	21

FED. ROAD DIST. NO.	T E N N.	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
3		I-40-5(34)259 PAVING	19 70	25	57

3 I-40-5(4)264 1960 20A 372
CONSTR.

FED. ROAD DIST. NO.	T E N N.	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
3		I-40-5(15)259 PAVING	19 ~~87~~ 88	~~23~~ 40	



EASTBOUND
P.I. = 364+44.09
N-638,610.03
E-2,043,385.00
Δ = 29°-41' Rt.
Δ_c = 20°-41'
D = 3°
R = 1,909.86'
L_c = 689.44'
T_s = 656.58'
L_s = 300'
θ_s = 4°-30'
k = 149.97'
p = 1.96'
X_c = 299.81'
Y_c = 7.85'
E_s = 67.86'
S.E. = 0.0967 ft/ft

B.M. M.S.E.-340 El. 637.86
Bolt in Rock
70' Lt. Sta. 371+30 E.B.L.

TYPE	YEAR	PROJECT NO.	SHEET #
RESURF	1999	IME-40-5(115)259	21

EASTBOUND LANE

TENN. STATE HIGHWAYS
Signs No. IN-
Dwn. No. 50

PROP. TYPE 38 ANCHOR UNDER PROJ. No. IME-40-5(115)259

Nail & Cap In Telephone Pole — 125.0' — 66°58'37" — 50.2' — Nail & Cap In Power Pole
82°41' — 123.15' Hub — 68°22' Hub — 48°36'23"
Bk. Tan. — Fwd. Tan.
℄ W.B.L.

P.I. 365+46.03

PROJECT NO.	YEAR	SHEET NO.
IR-40-5(9)257	1989	22

TYPE	YEAR	PROJECT NO.	SHEET #
RESURF.	1999	IME-40-5(115)259	22

MID-SOUTH ENGINEERING CO.

FED. ROAD DIST.	TENN.	FEDERAL AID PROJECT	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
3	TENN.	I-40-5(9)264 CONSTR.	1960	20B	372
3	TENN.	I-40-5(115)259 PAVING	1999	24	40
3	TENN.	I-40-5(34)259 PAVING	1970	26	57

FENCE ITEM 173-7
SEE SHEET No. 20C
℄ FARM ROAD 75
T.V.A. TRANS. LINE
TYPE 2
Ditch
POND
W.B. LANE
PROP. STONE UNDERDRAINS
PROP. GUARD RAIL
PROP. GUARDRAIL
FL-504.0
FL-543.0
15"
42"
N 89°-03' E
#33 C.B.
G-540.2
FL-538.1
#33 CB
G-549.5
FL-547.4
S 67°-09' E
220'
MATCH LINE SHEET No. 19B
MATCH LINE SHEET No. 21B
TOWER No. 158
E.B. LANE
S 61°-16' E
T.S. 359+37.84
S.C. 361+87.84
C.S. 368+89.84
S.T. 371+39.84 Bk. = 368+41.98 Ahd.
365
370
375
380
70
80

WESTBOUND

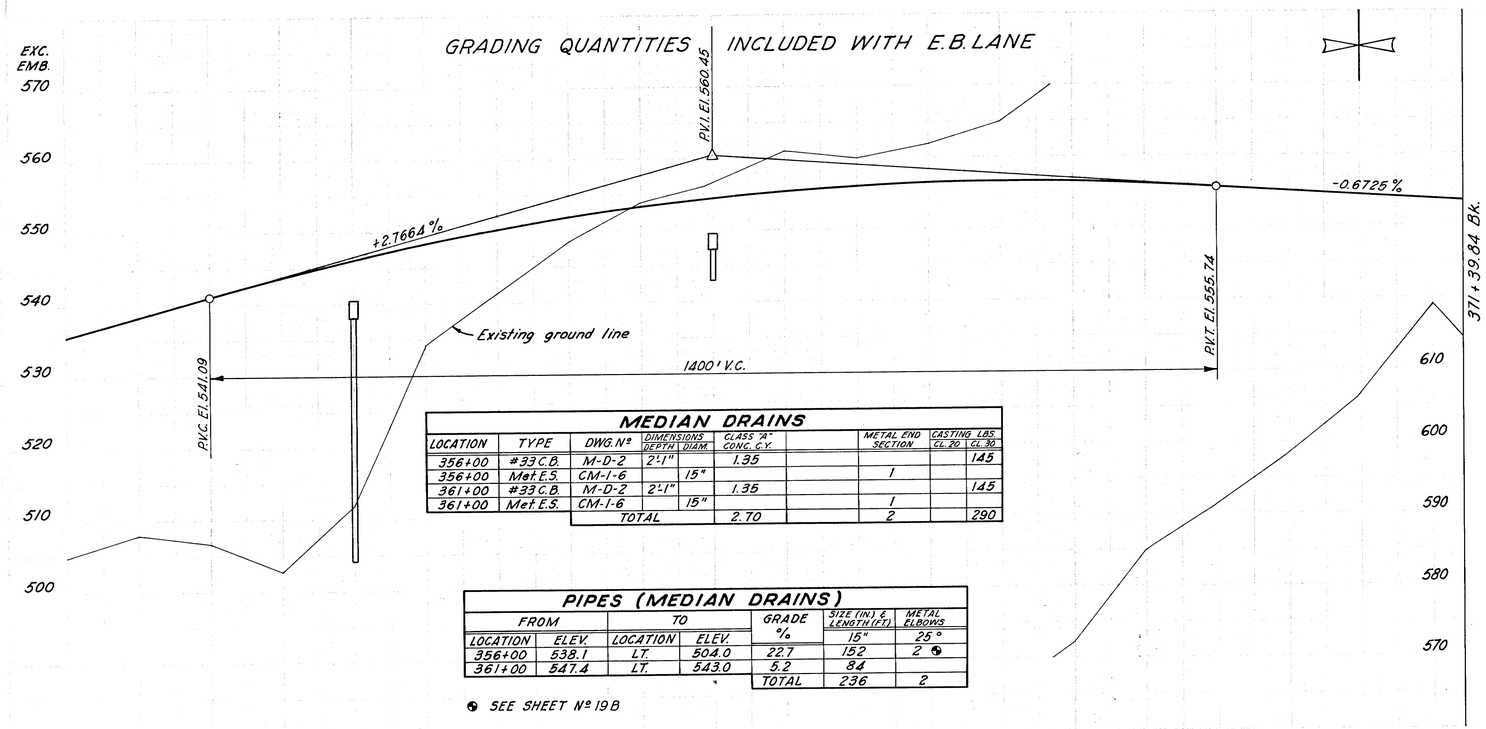
P.I.- 365+46.03
N -638,671.71
E -2,043,485.94
Δ = 23°-48' Rt.
Δc = 17°-33'
D = 2°-30'
R = 2291.83'
Lc = 702.00'
Ts = 608.19'
Ls = 250'
θs = 3°-7'-30"
K = 124.99'
p = 1.13'
Xc = 249.93'
Yc = 4.54'
Es = 51.49'
S.E. = 0.0806 ft./ft.

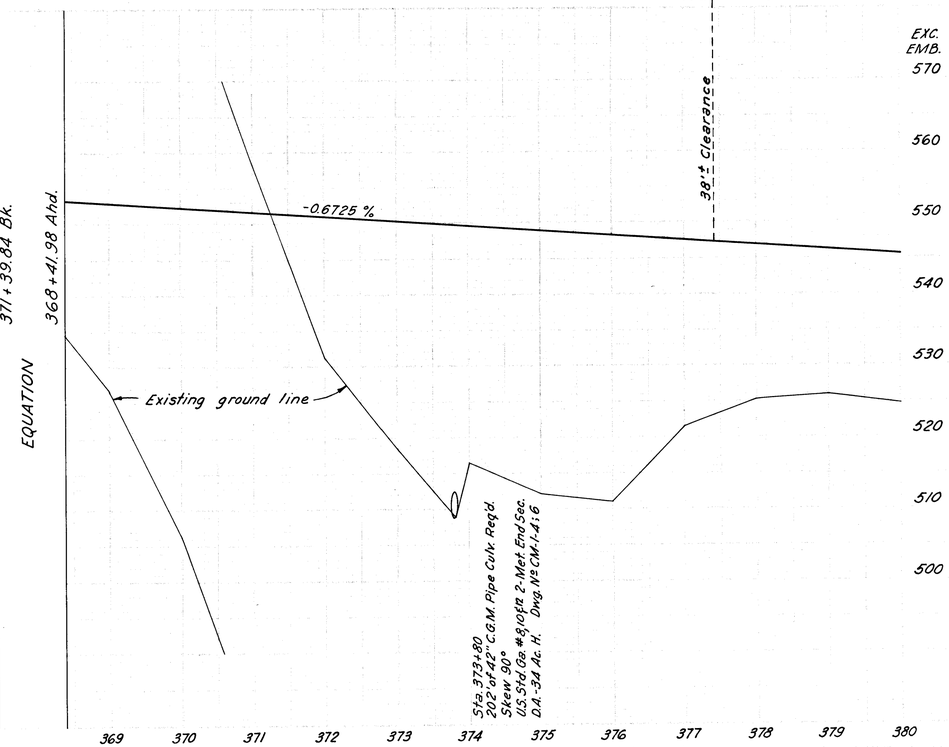
B.M. 36F346 El. 514.15
2"x 2" Hub in Center of Drive
120' Lt. Sta. 357+20 W.B.L.

B.M. No. 10 El. 534.80
West Bolt on S. Side of S.W. Leg Trans. Line Tower No. 158

T.V.A. TRANS. LINE
Sta. 377+41.00
Elev. 585.8
WESTBOUND LANE

GRADING QUANTITIES INCLUDED WITH E.B. LANE





MEDIAN DRAINS

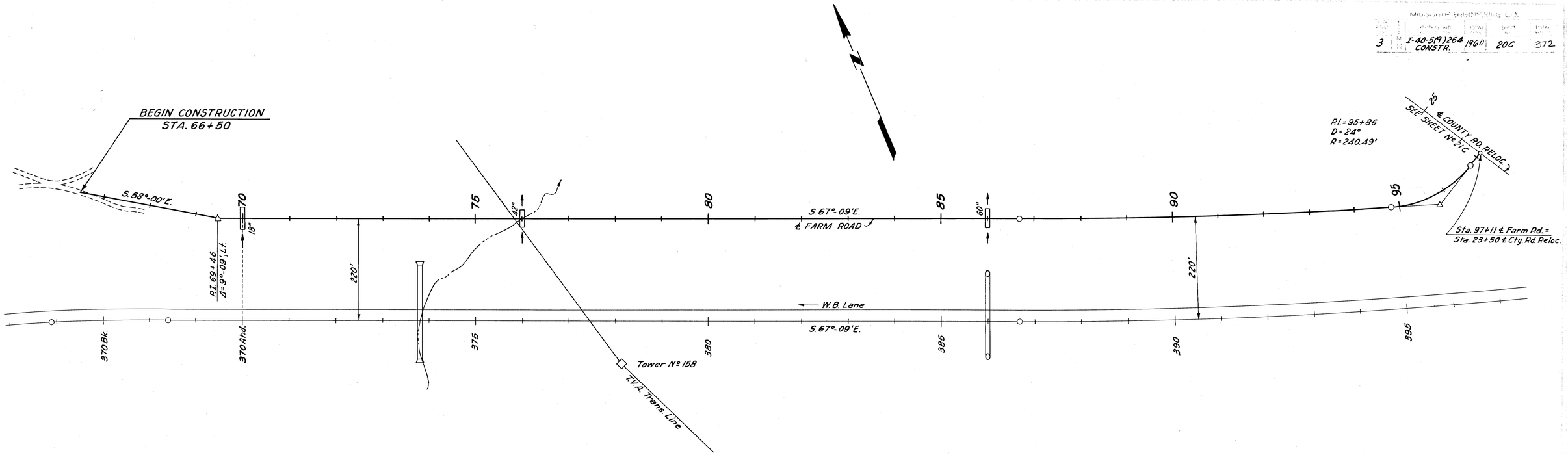
LOCATION	TYPE	DWG. No.	DIMENSIONS DEPTH	DIMENSIONS DIAM.	CLASS "A" CONC. C.Y.		METAL END SECTION	CASTING LBS. CL. 20	CASTING LBS. CL. 30
356+00	#33 C.B.	M-D-2	2'-1"		1.35				145
356+00	Met. E.S.	CM-1-6		15"			1		
361+00	#33 C.B.	M-D-2	2'-1"		1.35				145
361+00	Met. E.S.	CM-1-6		15"			1		
		TOTAL			2.70		2		290

PIPES (MEDIAN DRAINS)

FROM		TO		GRADE %	SIZE (IN) & LENGTH (FT.)	METAL ELBOWS
LOCATION	ELEV.	LOCATION	ELEV.			
356+00	538.1	LT.	504.0	22.7	15" 152	25° 2 ✪
361+00	547.4	LT.	543.0	5.2	84	
				TOTAL	236	2

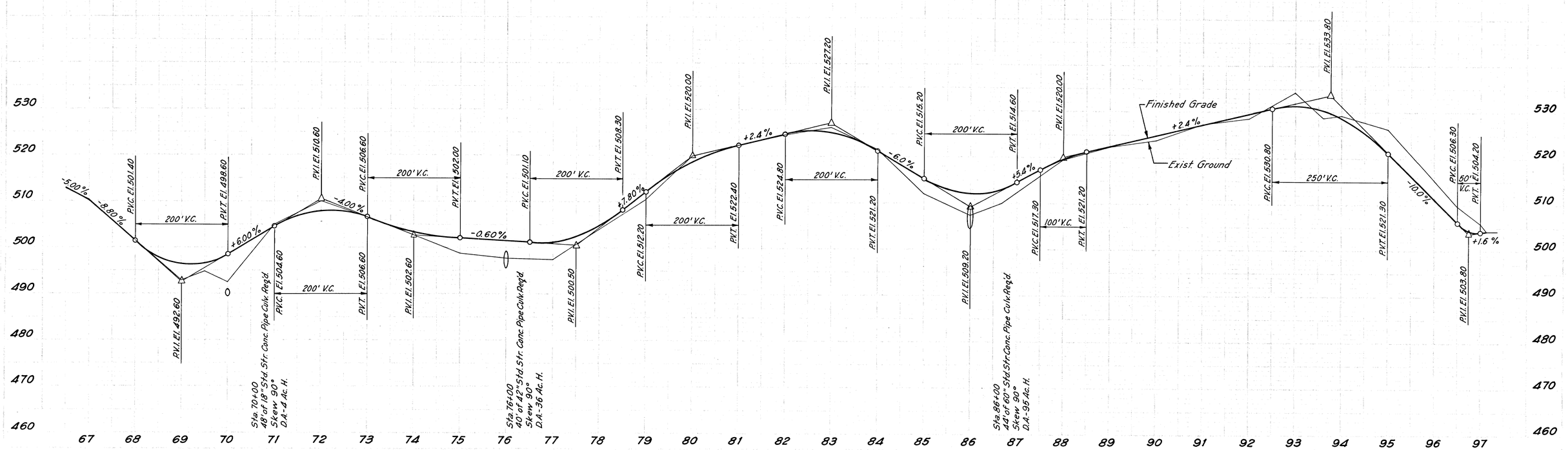
✪ SEE SHEET No. 19B

MISSISSIPPI BLUEPRINTING CO.
SHEET NO.		PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
3	N	I-40-5(9)264 CONSTR.	1960	20C	372



FARM ROAD
STA. 370 TO STA. 397

GRADING QUANTITIES INCLUDED WITH INTERSTATE



Plans	Fil.
Dwg.	No. 24

FED. ROAD DIST. No.	T E N N.	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
3		I-40-5(5)264 CONSTR	1960	21	372

FED. ROAD DIST. No.	T E N N.	FEDERAL AID PROJECT No.	FISCAL YEAR	SHEET No.	TOTAL SHEETS
3		I-40-5(8)259 R.O.W.	1959	21	25

REVISED 7-15-59; EASEMENT FOR OUTLET DITCH ADDED.
REVISED 7-31-59: LINE CHANGE ON GRADE SEPERATION AHEAD OF STA. 20.
REVISED 2-24-60: ADDED EASEMENT AREAS TRACTS NOS. 37 & 38

EASTBOUND
P.I. = 405+71.49
N-636,614.44
E-2,047,024.98
Δ = 22°-27'; Lt.
D = 0°-45'
R = 7,639.44'
T = 1,516.11'
L = 2,993.33'
E_c = 148.99'

WESTBOUND
P.I. = 399+71.15
N-637,220.42
E-2,046,930.01
Δ = 13°-00'; Lt.
D = 0°-30'
R = 11,459.16'
T = 1,305.61'
L = 2,600.00'
E_c = 74.14'

℄ GRADE SEPARATION
P.I. = 21+19.60
Δ = 47°-30'; Lt.
D = 22°
R = 260.44'
T = 114.60'
L = 215.91'

ADT 75 390

E.D. ROBINSON
TRACT Nº 37
PARCEL Nº 1 = 29.20 Ac. C.A.
PARCEL Nº 2 = 2.17 Ac. U.C.A.
PARCEL Nº 3 = 0.23 Ac. U.C.A.
TOTAL = 31.37 Ac.
EASEMENT = 0.20 AC.

EDGAR ROBINSON
TRACT Nº 38
PARCEL Nº 1 = 1.69 Ac. C.A.
PARCEL Nº 2 = 47.25 Ac. C.A.
PARCEL Nº 3 = 3.18 Ac. U.C.A.
TOTAL = 52.12 Ac.
EASEMENTS: OUTLET DITCH, 0.02 AC., CHANNEL CHANGE, SHEET NO. 22, 0.40 AC.

EASEMENT FOR OUTLET DITCH 5' WIDE BOTTOM
PROP. R.O.W.
℄ FARM RD.
PARCEL Nº 2
PROPOSED ACCESS RIGHTS
PROPOSED R.O.W.
PROPOSED ACCESS RIGHTS ℄ R.O.W.
Grading Limits
W. B. LANE
E. B. LANE
PARCEL Nº 1
E.D. ROBINSON
PARCEL Nº 3
EDGAR ROBINSON PARCEL Nº 2
CLAUDE W. HELM TRACT Nº 34
TRACT Nº 34-A
TRACT Nº 37-A 0.27 AC. C.A.
TVA TRANS LINE
TVA TRANS LINE RW
TOWER Nº 159
EASEMENT
℄ FARM RD.
℄ GRADE SEPARATION
2 Elect. Wires U.C.EMC.
Tel. Lines
Shed
Barn
Spring
Sheds
Gar.
Fr. Dw.
EASEMENT FOR OUTLET DITCH
MATCH LINE
MATCH LINE

N.16°-11'E.
N.81°-18'E.
S.67°-09'E.
S.1°-09'E.
S.1°-35'E.
S.61°-16'E.
S.23°-48'E.
N.69°-20'E.
S.23°-48'E.
N.31°-00'W.
N.29°-45'W.
N.17°-00'E.

PC. 386+65.54
PC. 390+55.38
PC. 7+05.10
PT. 22+20.91
PT. 11+85.10
PC. 20+05.00
394+72
396+20
396+77
398+67 (WBL) = 19+67 (℄ Gr. Separ.) (Scaled)
401+85.00 (E.B.L.) = 15+00.00 (℄ Gr. Separ.)
400+72
402+28
380+33
380+98
381+55
382+78
384+01
385+03
380+23
380+38
384+33
455.1'±
505'±
466'±
463'±
407.59
201'±
211'±
811'±
220'±
200'
240'
24' Pav't.
150'
165'±
181'±
151'±
108'±
40'±
30'
50'
2+50

Scale: 1" = 100'

INTERSTATE ROUTE I-40
SMITH COUNTY

MID-SOUTH ENGINEERING CO., INC.
820 BROADWAY, N. E. KNOXVILLE, TENNESSEE

RIGHT OF WAY PLANS
STA. 380+00 TO 410+00

STATE OF TENNESSEE
DEPARTMENT OF HIGHWAYS AND PUBLIC WORKS
NASHVILLE

DR. J.L.M	DATE 1-16-59
CHK'D. M.L.S	4-13-59
APP'D.	

7-31

TENN. STATE HIGHWAYS
Plans File No. 12
Divn. No. 50

FED. ROAD DIST. NO.	T E N N	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
3		I-40-5(16)253 PAVING	62	25	40

3 I-40-5(4)264 1960 21A 372
CONSTR.

FED. ROAD DIST. NO.	T E N N	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
3		I-40-5(34)259 PAVING	19 70	27	57

PROJECT NO.	YEAR	SHEET NO.
IR-40-5(91)259	1989	23

EASTBOUND
P.I.=405+71.49
N-636,614.44
E-2,047,024.98
Δ=22°-27'; Lt.
D=0°-45'
R=7,639.44'
T=1,516.11'
L=2,993.33'
E_c=148.99'
S.E.=0.0242 ft./ft.

S.61°-16'-E.
Sub-Tan
P.O.S.T. 395+00
N-637,129.54
E-2,046,085.43
91°-46'-37"
N.39°-08'-30" E. 123.28'
M.S.E. 340
N-638,323.81
E-2,044,047.75
N.56°-38'-07" W.
W.B. LANE
36 F 338
N-637,028.73
E-2,046,014.47

TOWER Nº 158
MATCH LINE SHEET Nº 20A
PROP. GUARDRAIL
FENCE ITEM 173-7
Ditch
PROP. 300'± GUARDRAIL UNDER PROJ. No. IME-40-5(115)259
PC. 390+55.38
S.61°-16'-E.±
60'
24'
TYPE 2
E.B. LANE
PROP. STONE UNDERDRAINS
Ditch
T.V.A. TRANS LINE
TOWER Nº 159
FENCE ITEM 173-7
PROP. GUARD RAIL
102"
FL-516.6
FL-556.6
FL-552.6
400-168
15"
15
70
27
2 65
Ditch
FENCE ITEM 173-7
℄ COUNTY RD. RELOC.
SEE SHEET Nº 21C
Sta 401+85 E.B.L. = Sta. 15+00 Co. Rd. Reloc.
PROP. GUARD RAIL
PROP. STONE UNDERDRAINS
Ditch
MATCH LINE SHEET Nº 22A

3' 6' to PGL.
#31 C.B.
88'
2:1
18" CG.M. PIPE
Met E.S.
25°
4'
Natural Ground
SECTION THRU SPILLWAY
@ 401+35± E.B.L.

TYPE	YEAR	PROJECT NO.	SHEET #
RESURF.	1999	IME-40-5(115)259	23

B.M. 36F338 El. 549.89
3"x 3" Hub
125' Rt. Sta. 394+90 E.B.L.

B.M. Nº 11 El. 537.81
R.R. Spike in 20" Ash
250' Rt. Sta. 401+85 E.B.L.

EASTBOUND LANE

EXC. 144,284
EMB. 154,530
COM. 12% SHR.
S.R. 32% SW.
COM. 81,761
S.R. 62,523

EXC. EMB.
33'± Clearance
-1.16%
PVC. El. 547.66
800' V.C.
PVT. El. 548.30
PVI. El. 543.02
+1.45
+1.32%
Finished Grade
Exist. Ground
BEG. BRIDGE STA. 401+45
END BRIDGE STA. 402+23.50
PVC. El. 560.18
1600' V.C.
PVI. El. 570.74
+1.32%

SPILLWAYS

LOCATION	TYPE	DWG. Nº	DIMENSIONS DEPTH	DIMENSIONS DIAM.	CLASS 'A' CONC. C.Y.	STEEL LBS.	METAL END SECTION	CASTING LBS. CL. 20	CASTING LBS. CL. 30
1 ¾	Spillway	P-S-8			1.92	87			
2	#31 C.B.	M-D-1	2'-0"		0.74			223	
3	Met. E.S.	CM-1-6		15"			1		
	TOTAL				2.66	87	1	223	

✲ SEE DETAIL ABOVE

Sta 389+00
182' of 60" C.G.M. Pipe Culv. Req'd.
Skew 90° Beveled Ends
U.S. Std. Ga. #10 Strutted
D.A.-86 Ac. H. Dwg. Nº CM-1-4;5;7

Sta 398+59
280' of 102" C.M.S.P. Pipe Culv. Req'd.
Skew 82° Lt. Beveled Ends
U.S. Std. Ga. #5, 7, 8, 10 & 12 Strutted
D.A.-371 Ac. H. Dwg. Nº CM-1-4;5;7

PIPES (STORM DRAINS)

FROM LOCATION	FROM ELEV.	TO LOCATION	TO ELEV.	GRADE %	SIZE (IN.) & LENGTH (FT.) 15"	METAL ELBOWS 25°
2	556.6	3	516.6	43.5	92	1 ¾
				TOTAL	92	1

✲ SEE DETAIL ABOVE

BRIDGE Nº 3A

1-Span Precast Prestressed Box Girder
Composite Section Bridge Req'd.
Total Length 75'-6"
40' Roadway with Safety Curbs
86°-44'-20" Skew (See Bridge Dwg. Nº G-15-76)

380 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399 400 401 402 403 404 405 406 407 408 409 410
550 540 530 520 510 500 490 480 470
590 580 570 560 550 540 530 520 510

TENN. STATE HIGHWAYS
Plans File No. 55

FED. ROAD DIST. NO.	T E N N.	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
3		I-40-5(34)259	1970	28	57
		PAVING			

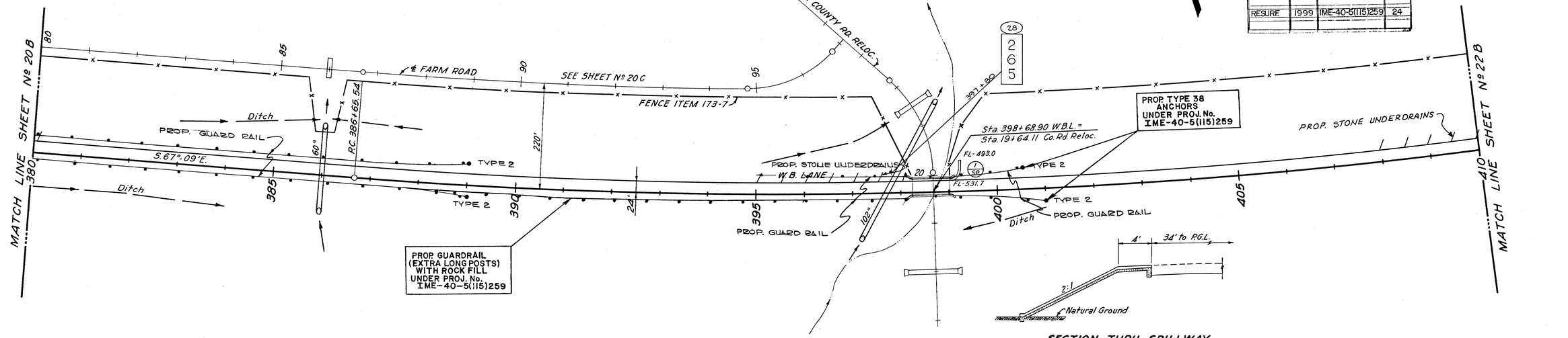
3 I-40-5(4)254 1400 218 372
CONSTR.

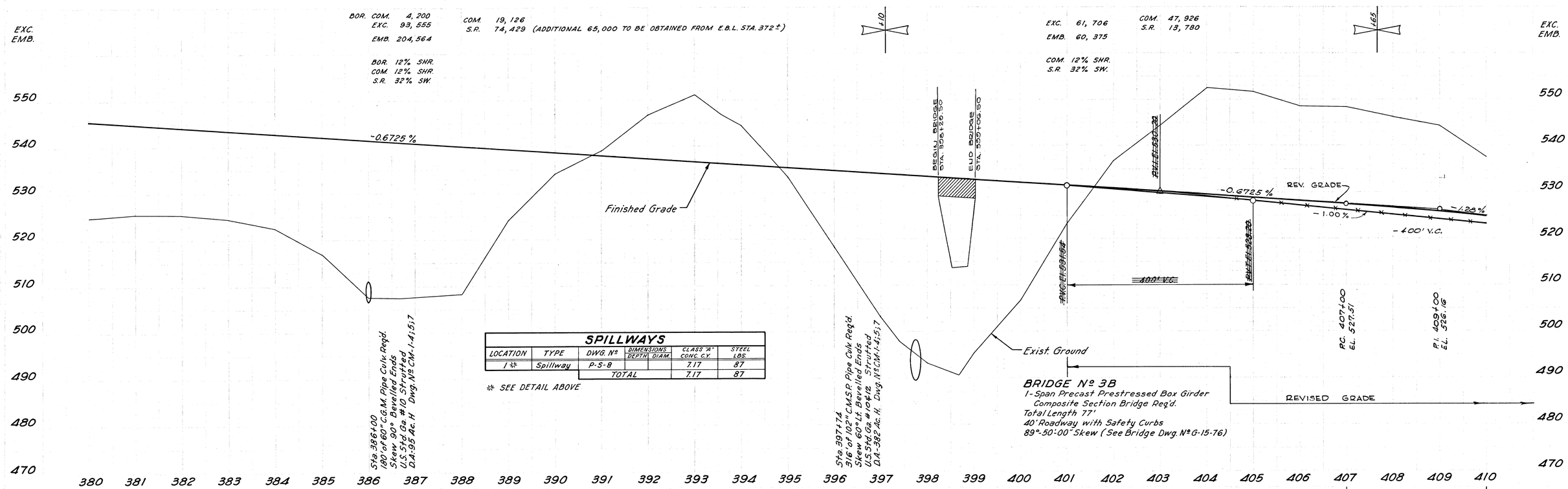
PROJECT NO.	YEAR	SHEET NO
IR-40-5(9)257	1989	24

FED. ROAD DIST. NO.	T E N N.	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
3		I-40-5(15)259	1999	24	40
		PAVING			

REV. 11-16-G2: GRADE CHANGED ON CONSTRUCTION BETWEEN STA. 401+00 AND 418+00.

TYPE	YEAR	PROJECT NO.	SHEET #
RESURF.	1999	IME-40-5(115)259	24





ROAD NO.	COUNTY	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHTS.
3	N N	I-40-5(9)264 CONSTR.	1960	21C	372

N

Existing Road

N 31°00' W

5

10

22°

PC 7+05.1

PT 11+85.1

24°

& COUNTY RD. RELOC.

401+85.00 (E.B.L.) = 15+00.00 (& CO. RD. RELOC.)

E.B.L.

400

405

P.I. - 9+60.20
Δ = 48°00' Rt.
D = 10°00'00"
R = 572.96'
T = 255.1'
L = 480.0'
S.E. = 0.04 ft./ft.

N 17°00' E

Ditch

24°

398+68.90 (W.B.L.) = 19+64.11 (& CO. RD. RELOC.)

400

395

W.B.L.

P.C. 20+05.00

20

22°

P.I. - 21+19.60
Δ = 47°-30'; Lt.
D = 22°
R = 260.44'
T = 114.60'
L = 215.91'
S.E. = 0.06 ft./ft.

PT 22+20.91

N. 30° 30' W.

SEE SHEET N° 20 C
& FARM ROAD

95

25

END OF CONSTRUCTION
STA. 28+00

BEGINNING OF CONSTRUCTION
STA. 1+50

I-40 = 52.01

CO. RD. = 339

TRAFFIC SKETCH
1975 ADT.

COUNTY ROAD RELOCATION
@ STA. 401+85 E.B.L.

GRADING QUANTITIES INCLUDED WITH INTERSTATE

EXC. EMB.

540
530
520
510
500
490
480

P.V.I. El. 558.75
Sta. 13+75

+6.6%

-7.7%

P.V.C. El. 521.70

300' V.C.

P.V.T. El. 530.70

-0.60%

P.V.I. El. 520.80

P.V.C. El. 530.70

850' V.C.

P.V.T. El. 526.03

P.V.C. El. 518.33

250' V.C.

P.V.T. El. 507.05

P.V.I. El. 508.70
Sta. 20+25

-1.32%

Sta. 7+50
38 of 24" Std. Str. Conc. Pipe Culv. Reqd.
Skew 90° 2-Str. Conc. E.W.
DA.-8 Ac. H.
Dwg. Nº D-0-13

Sta. 12+00
38 of 24" Std. Str. Conc. Pipe Culv. Reqd.
Skew 90° 2-Str. Conc. E.W.
DA.-8 Ac. H.
Dwg. Nº D-0-13

Sta. 18+00
100 of 24" C.G.M. Pipe Culv. Reqd.
Skew 90° 2-Met. End Sec.
U.S. Std. Ga. # 14
DA.-8 Ac. H. Dwg. Nº CM-1-4.16

Sta. 21+50
70 of 24" C.G.M. Pipe Culv. Reqd.
Skew 90° 2-Met. End Sec.
U.S. Std. Ga. # 14
Dwg. Nº CM-1-4.16

DA.-5 Ac. H.

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28

F.A.P. PROJ. DIST. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
3	TENN.	I-40-5(8)264 CONSTR.	1960	22	372

FED. ROAD DIST. No.	STATE	FEDERAL AID PROJECT No.	FISCAL YEAR	SHEET No.	TOTAL SHEETS
3	TENN	I-40-5(8)259 R.O.W.	1959	22	25

REV. 2-29-60 ADDED POND LT. OF STA. 421+50

EDGAR ROBINSON TRACT No 38

EASEMENT FOR CHANNEL CHANGE

CHANNEL CHANGE

CANEY FORK RIVER

JOEL FORT MAGGART TRACT No 41 24.82 Ac. C.A.

PROPOSED ACCESS RIGHTS & R.O.W.

Grading Limits

Pond

Pt. 412+65.54

200'

415

420

24' Par't

423+71

268'±

425

426+71

250'±

428+48

425+82

S.80°-09'E.

W.B. LANE

190'±

434+70

432+01

S 78°00'E

690'±

435

280'±

438+36

224'

440

MATCH LINE

410

TRACT No 38 PARCEL No 2

Barn

Pond

S 72°20'E

384'±

Shed

Cr. No.

424+51

E.B. LANE

S.83°-43'E.

419+97

Pt. 420+48.71

N 18°-31'E

150'

S 24°-17'W.

211'±

423.83

418+37

S 47°-05'W

190'±

S 25°-49'W

24'±

S 78°-00'E

433+27

278'±

430

JOEL FORT MAGGART

SID PETTY, ESTATE TRACT No 40 4.95 Ac. C.A.

POLK RAY TRACT No 39 3.48 Ac. C.A.

EDGAR ROBINSON

Scale: 1" = 100'

INTERSTATE ROUTE I-40
SMITH COUNTY

MID-SOUTH ENGINEERING CO., INC.
820 BROADWAY, N. E. KNOXVILLE, TENNESSEE

RIGHT OF WAY PLANS
STA. 410+00 TO 440+00

STATE OF TENNESSEE
DEPARTMENT OF HIGHWAYS AND PUBLIC WORKS
NASHVILLE

		DATE
DR.	J.L.M.	1-16-59
CHK'D.	MLS	4-14-59
APP'D.		

FED. ROAD DIST. NO.	T E N N	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
3		I-40-5(10)259 PAVING	1982	27	40

3 I-40-5(9)256 CONSTR. 1460 20A 372

PROJECT NO.	YEAR	SHEET NO.
IR-40-5(9)257	1989	25

FED. ROAD DIST. NO.	T E N N	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
3		I-40-5(34)259 PAVING	1970	29	57

TYPE	YEAR	PROJECT NO.	SHEET #
RESURF.	1999	IME-40-5(115)259	25

P.T. 420+48.71

(Sub-Tan. 130.89 Tan. to Hub, 113.40 Tan. to Hub, 72')

S 33°21'40" E — 69°42'30" — S 36°38'50" E

Nail & Cap In 8" Twin Cedar — Nail & Cap In 6" White Oak

N

MATCH LINE SHEET Nº 21A

MATCH LINE SHEET Nº 23A

Ditch

Ditch

TYPE 3

TYPE 3

PROP. GUARD RAIL

42"

Ditch

P.T. 420+48.71

24'

E.B. LANE

PROP. STONE UNDERDRAINS

PROPOSED GUARD RAIL

TYPE 3

TYPE 3

S 83°43' E.

W.B. LANE

CANEY FORK Island

Ditch 10' Bottom

PROP. GUARD RAIL

FL-5116

FL-5040

PROP. STONE UNDER-DRAINS

River Mi. 18.7

Ditch

RIVER

FENCE ITEM 173-7

REMOVE & REPLACE GUARDRAIL AND PROP. TYPE 3S ANCHORS UNDER PROJ. No. IME-40-5(115)259

EASTBOUND LANE

EXC. EMB.

+70

PVI. El. 570.74

1600' V.C.

P.V.T. El. 549.30

Finished Grade

-2.68 %

Exist. Ground

Sta. 419+85 160' of 42" CGM. Pipe Culv. Req'd. Skew 60° Lt. US Std. Ga. #12 2-Type A Conc. E.W. Sheet Nº 27 D.A.-29 Ac. H. Dwg. Nº CM-1-4

EXC. 67,927 COM. 49,755
EMB. 67,703 S.R. 18,172
(INCLS. 10,226 ROCK FILL)

COM. 12% SHR.
S.R. 32% SW.

SPILLWAYS

LOCATION	TYPE	DWG. Nº	DIMENSIONS DEPTH	DIAM.	CLASS "A" CONC. C.Y.	STEEL LBS.
1 ¾%	Spillway	P-S-8			3.54	87
		TOTAL			3.54	87

¾% SEE SHEET Nº 19A

+27

+56

P.V.C. El. 522.50

BEGIN BRIDGE STA. 431+41.06

1200' V.C.

END BRIDGE STA. 435+35.56

P.V.T. El. 516.02

Finished Grade

-2.68 %

+1.60 %

H.W. 493.0

P.V.I. El. 506.42

BRIDGE Nº 4A
1-5 Span Precast Prestressed "I" Beam Bridge Req'd.
2-Spans @ 72'-6"; 3-Spans @ 83'
Total Length 394'
30' Roadway with Safety Curbs
53°-00' Skew (See Bridge Dwg. Nº G-15-82)

EXC. EMB.

590 580 570 560 550 540 530 520 510

530 520 510 500 490 480 470 460 450

410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440

SEVIER STATE HIGHWAYS

Plans	File	12 N 5
Dwn	No.	50

FED. ROAD DIST. NO.	T E N N	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
3		I-40-5(3A)253 PAVING	1970	30	57

PROJECT NO.	YEAR	SHEET NO
IR-40-5(9)257	1969	24

3 I-40-5(4)264 CONSTR. 1960 228 372

FED. ROAD DIST. NO.	T E N N	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
3		I-40-5(10)255 PAVING	1964	28	40

REV. 11-16-62: GRADE CHANGED ON CONSTRUCTION BETWEEN STA. 401+00 AND 418+00.

TYPE	YEAR	PROJECT NO.	SHEET #
RESURF.	1999	IME-40-5(115)259	26

MATCH LINE SHEET Nº 21B

Pond

P.T. 412+65.54

PROPOSED GUARD RAIL

PROP. STONE UNDERDRAINS

W.B. LANE

CANEY FORK

Channel Change
Bottom El. 466

FENCE ITEM 173-7

Ditch
10' Bottom

PROP. STONE UNDERDRAINS

PROPOSED GUARD RAIL

TYPE 2

S 80° 09' E.

TYPE 2

410 415 420 425 430 435 440

24'

REPAIR GUARDRAIL AND FILL WITH ROCK UNDER PROJ. No. IME-40-5(115)259

Pond

Ditch

River Mi. 18.7

RIVER

Island

Ditch

MATCH LINE SHEET Nº 23B

B.M. Nº 12 El. 494.43
R.R. Spike in 10" Syc.
125' Lt. Sta. 438+50

WESTBOUND LANE

EXC. EMB.

EXC. 69,380 COM. 56,519
EMB. 66,521 (INCLS. 16,464 ROCK FILL) S.R. 12,861

COM. 12% SHR.
S.R. 32% SW.

1.96 CHAN. 7,400 (UNCL.) 1.32
TO BE DISPOSED OF AS DIRECTED BY THE ENGINEER

REV. GRADE

-1.28 %

+400' V.C.

-1.00 %

P.V.C. El. 513.20

1200' V.C.

BEG. BRIDGE STA. 424+17.07

END BRIDGE STA. 425+12.07

P.V.T. El. 513.56

+1.06%

Finished Grade

P.T. 411+00 EL. 523.60

P.C. 414+00 EL. 519.76

P.I. 416+00 EL. 517.20

P.T. 418+00 EL. 515.20

H.W. 499.0

P.V.I. El. 507.20

0.5 % DITCH. LT.

Exist. Ground

REVISED GRADE

BRIDGE Nº 4B
1-5 Span Precast Prestressed "I" Beam Bridge Req'd.
2-Spans @ 73'; 3-Spans @ 83'
Total Length 395'
30' Roadway with Safety Curbs
50°-00' Skew (See Bridge Dwg. Nº G-15-93)

530 520 510 500 490 480 470 460 450

410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440

PROJECT NO.	YEAR	SHEET NO.
IR-40-5(9)257	1969	27

FED. ROAD DIST. NO.	T E N N.	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
3		I-40-5(34)257 PAVING	1970	31	57

3 I-40-5(9)254 1960 29A 372 CONSTR.

FED. ROAD DIST. NO.	T E N N.	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
3		I-40-5(19)259 PAVING	1962	29	40

TYPE	YEAR	PROJECT NO.	SHEET #
RESURF.	1999	IME-40-5(115)259	27

Nail & Cap In 10" Oak
376'
110° Tick in Hub
69°18'50"
℄ E.B.L.
289.30' Tack in Hub
214°51'10"
375.70'
Nail & Cap In 8" Maple
P.O.T. 452+63.67

N

W.B. LANE

450

PROP TYPE 38 ANCHORS UNDER PROJ. No. IME-40-5(115)259

REMOVE & REPLACE GUARDRAIL UNDER PROJ. No. IME-40-5(115)259

PROP 500'± GUARDRAIL UNDER PROJ. No. IME-40-5(115)259

FENCE ITEM 173-7

Ditch

PROP. STONE UNDERDRAINS

TYPE 2

24'

MATCH LINE SHEET Nº 22A

440 445 450 455 460 465 470

MATCH LINE SHEET Nº 24A

S.83°43'E.

E.B. LANE

PROPOSED GUARD RAIL

8'x8'

29 266 453+49

FENCE ITEM 173-7

RIVER

River Mi. 19.7

CANEY FORK

Island

Island

Island

EASTBOUND LANE

B.M. Nº 13 El. 489.74
R.R. Spike in 10" Elm
250' Rt. Sta. 456+75 E.B.L.

EXC. 109,124 COM. 93,165 (ADDITIONAL 6,000 TO BE OBTAINED FROM W.B.L.)
EMB. 105,225 (INCLS. 7,612 ROCK FILL) S.R. 15,959

COM. 15% SHR.
S.R. 30% SW.

EXC. EMB.

P.V.T. El. 516.02
+1.60%
P.V.C. El. 524.02
1500' V.C.
P.V.I. El. 536.02
P.V.T. El. 524.31
-1.562%
Finished Grade
Exist. Ground
P.V.C. 513.37
900' V.C.
1.45
BEGIN BRIDGE STA. 466+50.5
H.W. 500.5

Sta. 455+41
242' of 8'x8' Conc. Box Culv. Req'd.
Skew 60° R.H.
DA-492 Ac. M.
Dwg. Nº E-8-58 ; C-4-141

BRIDGE Nº 5A
1-6 Span Precast Prestressed "I" Beam Bridge Req'd.
2-Spans @ 77' ; 4-Spans @ 80'
Total Length 474'
30' Roadway with Safety Curbs
48°30' Skew (See Bridge Dwg. Nº G-15-104)

540 530 520 510 500 490 480 470 460

440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470

NOTE: THIS SHEET INCLUDED IN PROJECT I-40-5(31)267 PAVING (FINAL STAGE) PLANS TO SHOW THE WIDTH AND OUTLINE OF PAVEMENT AND ARE NOT INTENDED TO SHOW THE SCOPE OF WORK FOR THIS PROJECT.

FED. ROAD DIST. NO.	T E N N	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
3		I-40-5(34)259 PAVING	1970	32	57

FED. ROAD DIST. NO.	T E N N	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
3		I-40-5(19)259 PAVING	1967	30	40

PROJECT NO.	YEAR	SHEET NO
IR-40-5(31)257	1969	28

TYPE	YEAR	PROJECT NO.	SHEET #
RESURF	1999	IME-40-5(115)259	28

END PROJ. I-40-5 (34)259 FINAL STAGE PAVING
STA. 468+65.38 W.B. LANE

Nail & Cap In 18" Elm
Tack In Hub
123.0'
56°50'12"
160.00'
℄ W.B.L.
P.O.T. 450+85.00
56°27'37"
135.95'
Tack In Hub
84.0'
Nail & Cap In 24" Pine

30
266

249+60

MATCH LINE SHEET Nº 22B

FENCE ITEM 173-7

PROPOSED GUARD RAIL

Ditch

Ditch 10' Bottom

8'x8'

TYPE 2

W.B. LANE

S.80°-09'E.

PROP. STONE UNDERDRAINS

70'

PROP 522 TONS OF CLASS A-2 RIP-RAP UNDER PROJ. No. IME-40-5(115)259

RIVER

River Mi. 19.7

MATCH LINE SHEET Nº 24B

PROP. G.R.

TYPE 2

TYPE 2

24'

TYPE 3

PROPOSED G.R.

70'

REMOVE & REPLACE GUARDRAIL UNDER PROJ. No. IME-40-5(115)259

FORK

CANEY

Island

Island

PROP. TYPE 3B ANCHOR UNDER PROJ. No. IME-40-5(115)259

E.B. LANE

WESTBOUND LANE

B.M. Nº 14 El. 539.69
R.R. Spike in Twin Walnut
200' Lt. 461+50 W.B.L.

EXC. 104,966 COM. 58,066 (6,000 TO BE USED ON E.B.L.)
S.R. 46,900
EMB. 105,262 (INCLS. 10,642 ROCK FILL)

COM. 15% SHR.
S.R. 30% SW.

EXC.
EMB.

+50

+83

BEGIN I-40-5(31)267 PAVING
STA. 468+65.38 WEST BOUND LANE

EXC.
EMB.

540
530
520
510
500
490
480
470
460

P.V.I. El. 528.40

+1.06%

Finished Grade

P.V.C. El. 522.04

1200' V.C.

P.V.I. El. 523.48

DITCH LT.

Exist. Ground

-0.82%

BEGIN BRIDGE STA. 464+32.55

P.V.C. El. 512.82

800' V.C.

END BRIDGE STA. 468+32.55

+1.38%

P.V.I. El. 503.54

H.W. 500.5

Sta 450+75
170' of 8'x8' Conc. Box Culv. Req'd.
Skew 90°
D.A. 4.77 Sq. M.
Dwg. N.E.-8-57, C-4-141

BRIDGE Nº 5B
1-6 Span Precast Prestressed "I" Beam Bridge Req'd.
2-Spans @ 56'-6"; 4-Spans @ 80'
Total Length 433'
30' Roadway with Safety Curbs
48°-30' Skew (See Bridge Dwg. Nº G-15-115)

440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470

Sheet No. 24

EASTBOUND
P.I. = 497+21.40
N-635,608.77
E-2,056,158.54
Δ = 24°-02'; Lt.
D = 1°-00'
R = 5,729.58'
T = 1,219.60'
L = 2,403.33'
E_c = 128.36'

WESTBOUND
P.I. = 492+67.98
N-635,628.09
E-2,056,100.85
Δ = 27°-36'; Lt.
D = 1°-00'
R = 5,729.58'
T = 1,407.32'
L = 2,760.00'
E_c = 170.30'

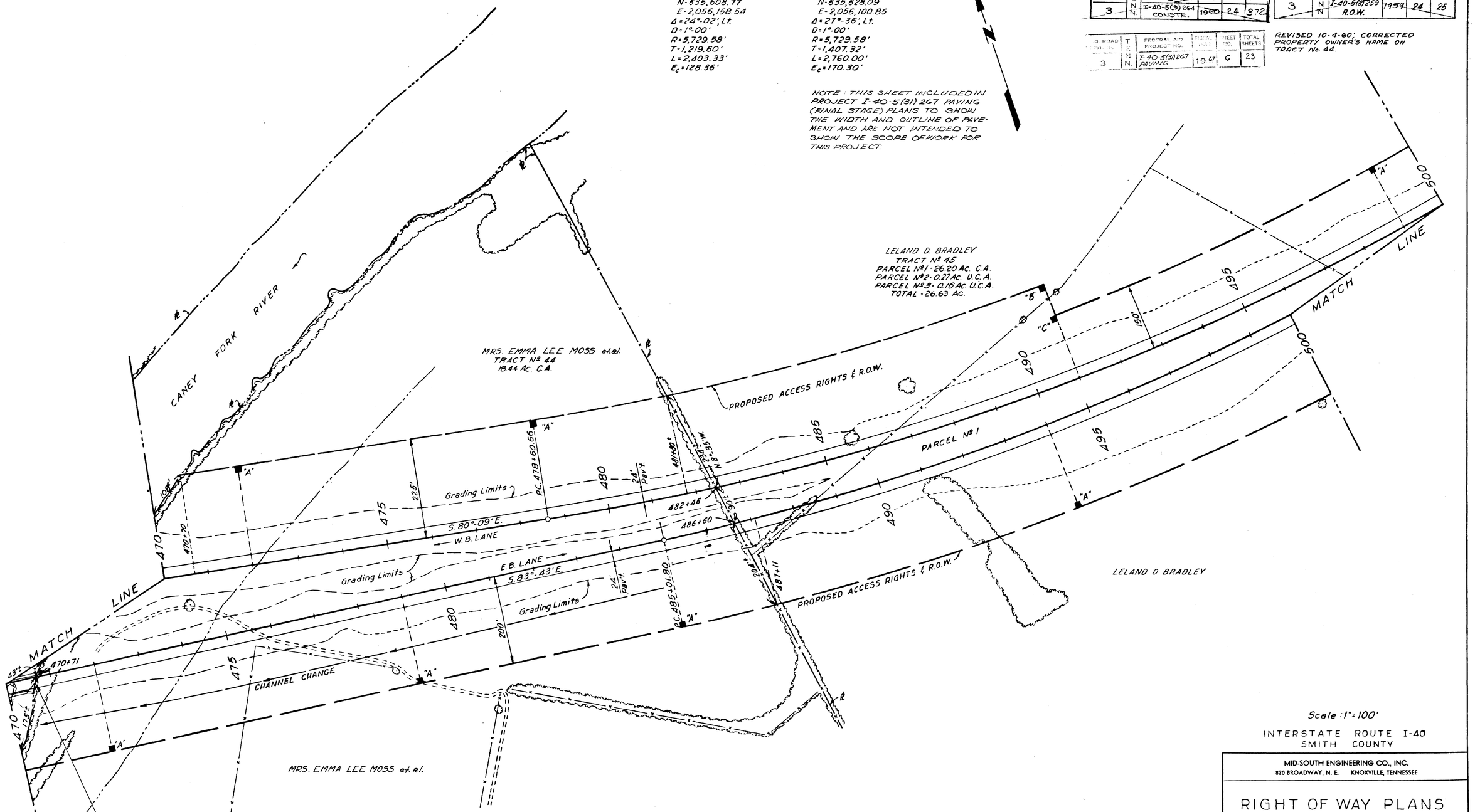
NOTE: THIS SHEET INCLUDED IN PROJECT I-40-5(31) 267 PAVING (FINAL STAGE) PLANS TO SHOW THE WIDTH AND OUTLINE OF PAVEMENT AND ARE NOT INTENDED TO SHOW THE SCOPE OF WORK FOR THIS PROJECT.

FED. ROAD DIST. NO.	T E N N.	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
3	N.	I-40-5(9) 264 CONSTR.	1960	24	372

FED. ROAD DIST. No.	T E N N	FEDERAL AID PROJECT No.	FISCAL YEAR	SHEET No.	TOTAL SHEETS
3	N	I-40-5(8)259 R.O.W.	1959	24	25

FED. ROAD DIST. NO.	T E N N.	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
3	N.	I-40-5(31)267 PAVING	1967	C	23

REVISED 10-4-60; CORRECTED PROPERTY OWNER'S NAME ON TRACT No. 44.



Scale: 1" = 100'

INTERSTATE ROUTE I-40
SMITH COUNTY

MID-SOUTH ENGINEERING CO., INC.
820 BROADWAY, N. E. KNOXVILLE, TENNESSEE

RIGHT OF WAY PLANS
STA. 470+00 TO 500+00

STATE OF TENNESSEE
DEPARTMENT OF HIGHWAYS
AND PUBLIC WORKS
NASHVILLE

	DATE
DR. J.L.M.	1-19-59
CHK'D MLS	4-14-59
APP'D	

NOTE: THIS SHEET INCLUDED IN PROJECT I-40-5(31) 267 PAVING (FINAL STAGE) PLANS TO SHOW THE WIDTH AND OUTLINE OF PAVEMENT AND ARE NOT INTENDED TO SHOW THE SCOPE OF WORK FOR THIS PROJECT

EASTBOUND
P.I. = 497+21.40
N-635,608.77
E-2,056,158.54
Δ = 24°-02', Lt.
D = 1°
R = 5,729.58'
T = 1,219.60'
L = 2,403.33'
E_c = 128.36'
S.E. = 0.0322 ft./ft.

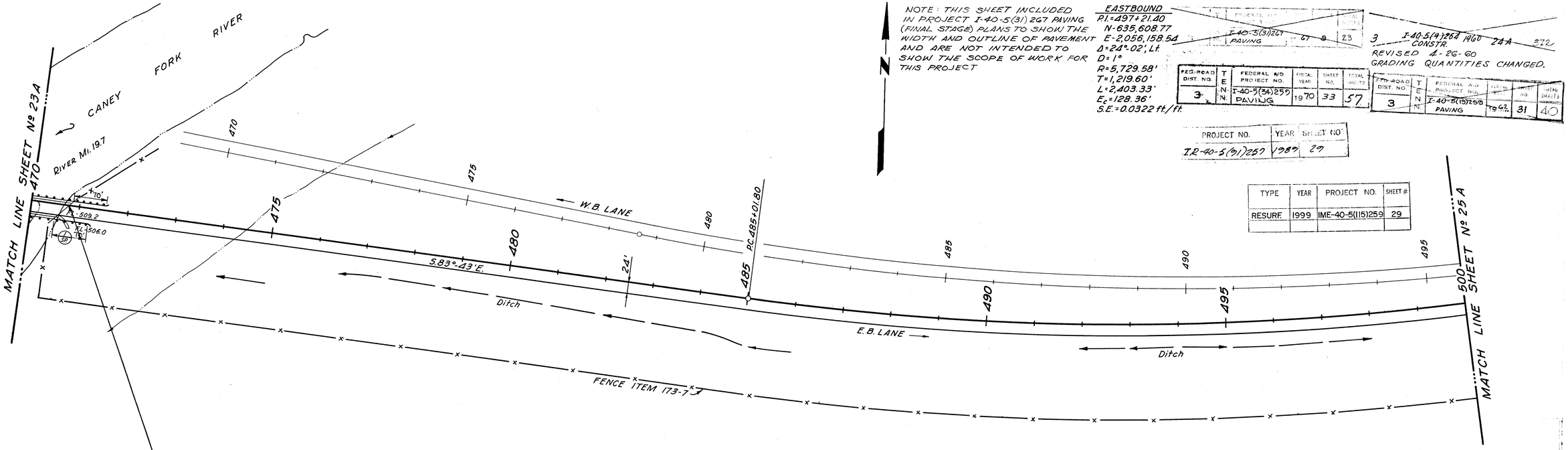
FED-ROAD DIST. NO.	T E N	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
3		I-40-5(31)267 PAVING	19 67	9	23
3		I-40-5(4)264 CONSTR.	1960	24A	272

REVISED 4-26-60
GRADING QUANTITIES CHANGED.

FED-ROAD DIST. NO.	T E N	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
3		I-40-5(34)259 PAVING	19 70	33	57
3		I-40-5(15)259 PAVING	19 62	31	40

PROJECT NO.	YEAR	SHEET NO.
IR-40-5(31)259	1989	29

TYPE	YEAR	PROJECT NO.	SHEET #
RESURF.	1999	IME-40-5(115)259	29



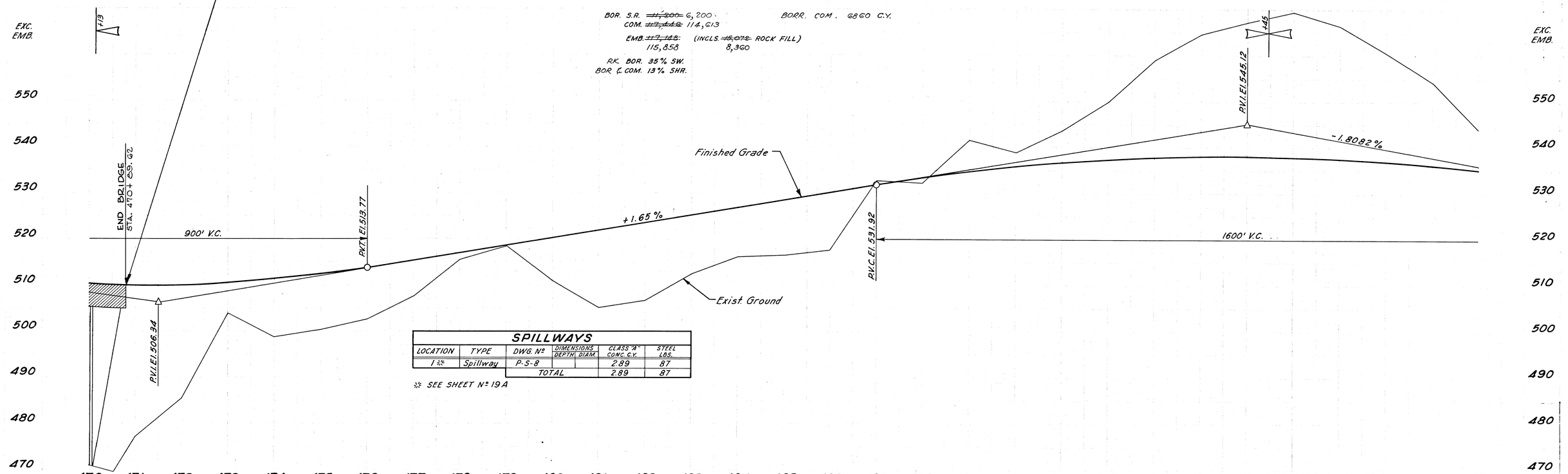
END PROJ. I-40-5(34)259 FINAL STAGE PAVING
~~BEGIN I-40-5(31)267 PAVING~~
STA. 470+89.62 E.B. LANE

B.M. Nº 16 El. 543.10
R.R. Spike in 8" Hedge Apple
190' Rt. 487+50 E.B.L.

EASTBOUND LANE

BOR. S.R. ~~11,200~~ 6,200
COM. ~~113,446~~ 114,613
EMB. ~~117,148~~ 115,858 (INCLS. ~~15,078~~ 8,360 ROCK FILL)
RK. BOR. 35% SW.
BOR & COM. 13% SHR.

BORR. COM. 6860 C.Y.



SPILLWAYS						
LOCATION	TYPE	DWG. Nº	DIMENSIONS DEPTH	DIMENSIONS DIAM.	CLASS "A" CONC. C.Y.	STEEL LBS.
1 ½	Spillway	P-S-8			2.89	87
		TOTAL			2.89	87

½ SEE SHEET Nº 19A

TENN. STATE HIGHWAYS
DIV. 4 SEC. IN
DIST. NO. 50

MICROFILMED

NOTE: THIS SHEET INCLUDED IN PROJECT I-40-5(31) 247 PAVING (FINAL STAGE) PLANS TO SHOW THE WIDTH AND OUTLINE OF PAVEMENT AND ARE NOT INTENDED TO SHOW THE SCOPE OF WORK FOR THIS PROJECT

WESTBOUND
P.I. = 492+67.98
N-635,628.09
E-2,056,100.85
Δ = 27° 36', Lt.
D = 1°
R = 5,729.58'
T = 1,407.32'
L = 2,760.00'
E_c = 170.30'
S.E. = 0.0322 ft./ft.

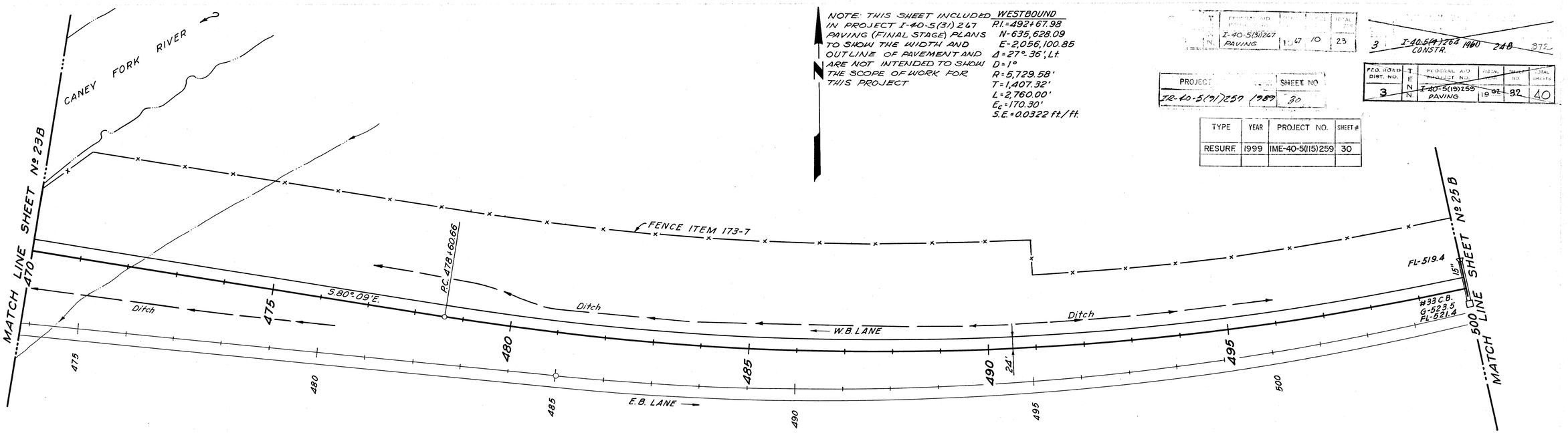
FED. ROAD DIST. NO.	T E N	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
3	N	I-40-5(31)247 PAVING	1967	10	23

3 I-40-5(4)264 1960 248 372
CONSTR.

FED. ROAD DIST. NO.	T E N	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
3	N	I-40-5(19)255 PAVING	1962	32	40

PROJECT	SHEET NO.
FR-40-5(91)257 1989	30

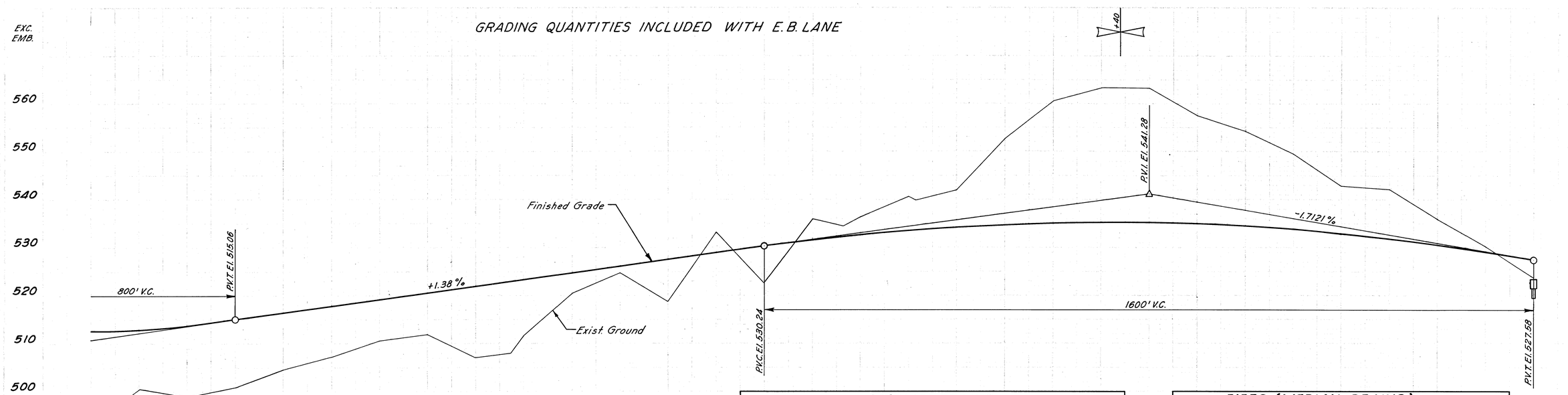
TYPE	YEAR	PROJECT NO.	SHEET #
RESURF.	1999	IME-40-5(115)259	30



B.M. No 15 El. 503.58
Bolt in Root of 36" Elm
60' Rt. Sta. 470+50 W.B.L.

WESTBOUND LANE

GRADING QUANTITIES INCLUDED WITH E.B. LANE



MEDIAN DRAINS

LOCATION	TYPE	DWG. No	DIMENSIONS DEPTH	DIAM.	CLASS "A" CONC. CY.		METAL END SECTION	CASTING LBS. CL. 20	CASTING LBS. GL. 30
500+00	#33 C.B.	M-D-2	2'-1"		1.35				145
500+00	Met. E.S.	CM-1-6		15"			1		
		TOTAL			1.35		1		145

PIPES (MEDIAN DRAINS)

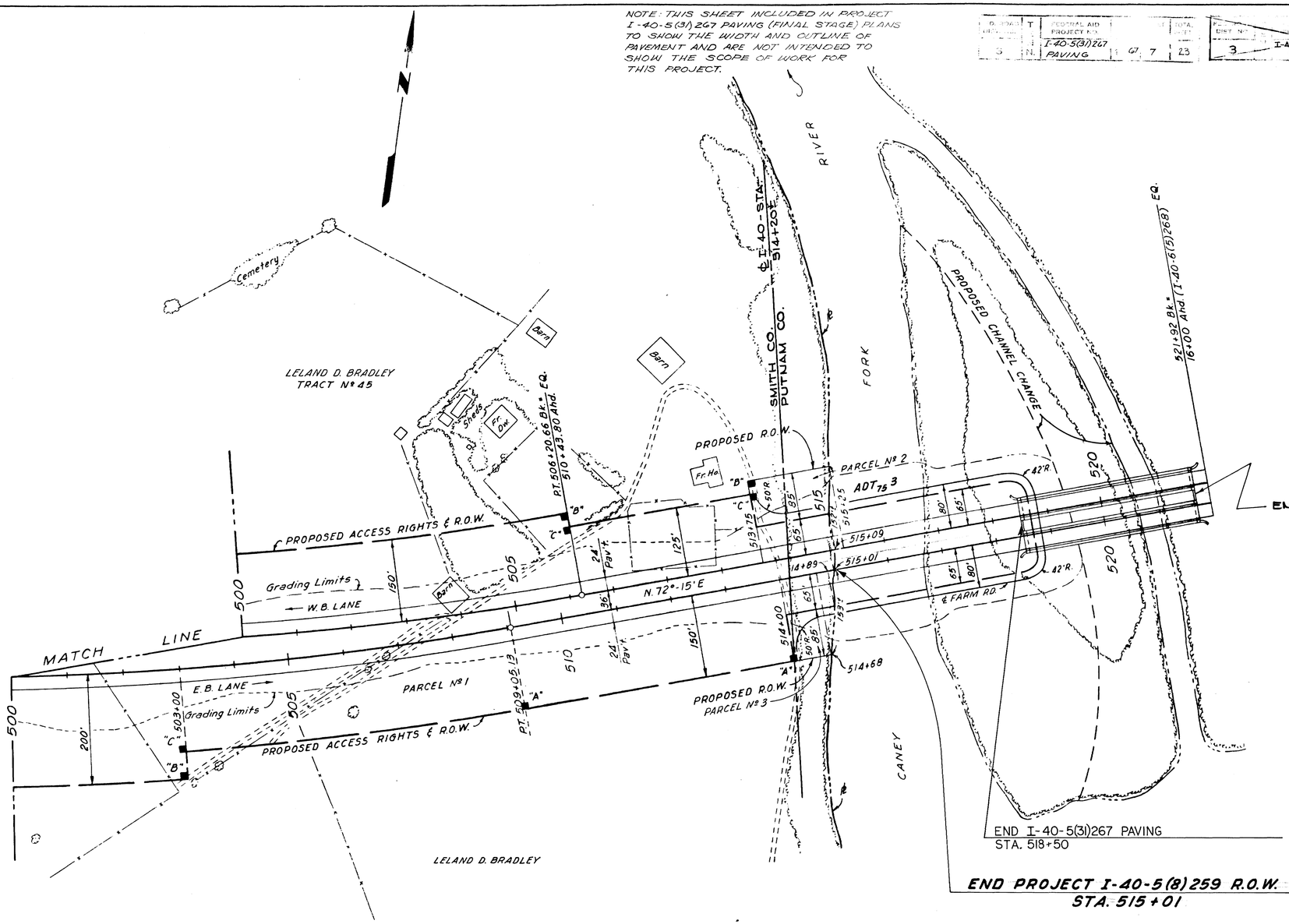
FROM LOCATION	FROM ELEV.	TO LOCATION	TO ELEV.	GRADE %	SIZE (IN.) & LENGTH (FT.)	
500+00	521.4	LT.	519.4	2.6	15"	78
				TOTAL		78

NOTE: THIS SHEET INCLUDED IN PROJECT I-40-5(31)267 PAVING (FINAL STAGE) PLANS TO SHOW THE WIDTH AND OUTLINE OF PAVEMENT AND ARE NOT INTENDED TO SHOW THE SCOPE OF WORK FOR THIS PROJECT.

FED. ROAD DIST. No.	STATE	FEDERAL AID PROJECT No.	FISCAL YEAR	SHEET No.	TOTAL SHEETS
3	TENN.	I-40-5(31)267 PAVING	67, 7	23	

FED. ROAD DIST. No.	STATE	FEDERAL AID PROJECT No.	FISCAL YEAR	SHEET No.	TOTAL SHEETS
3	TENN.	I-40-5(2) 264 CONSTR.	1960	25	372

FED. ROAD DIST. No.	STATE	FEDERAL AID PROJECT No.	FISCAL YEAR	SHEET No.	TOTAL SHEETS
3	TENN.	I-40-5(8)259 R.O.W.	1959	25	25



Scale: 1" = 100'

INTERSTATE ROUTE I-40
SMITH COUNTY

MID-SOUTH ENGINEERING CO., INC.
820 BROADWAY, N. E. KNOXVILLE, TENNESSEE

RIGHT OF WAY PLANS
STA. 500+00 TO 521+92

STATE OF TENNESSEE
DEPARTMENT OF HIGHWAYS AND PUBLIC WORKS
NASHVILLE

	DATE
DR. J.L.M.	1-20-59
CHK'D. W.L.S.	4-13-59
APP'D.	

NOTE: THIS SHEET INCLUDED IN PROJECT I-40-5(31) 267 PAVING (FINAL STAGE) PLANS TO SHOW THE WIDTH AND OUTLINE OF PAVEMENT AND ARE NOT INTENDED TO SHOW THE SCOPE OF WORK FOR THIS PROJECT

		FEDERAL AID PROJECT NO.			TOTAL SHEETS
T					
S	N.	I-40-5(31) 267 PAVING	1967	11	23

3 I-40-5(9)264 1960 25A 372 CONSTR.

REVISED 4-26-60: GRADING QUANTITIES CHANGED.

PROJECT NO.	YEAR	SHEET NO.
IR-40-5(9)257	1957	32

DIST. NO.		FEDERAL AID PROJECT NO.			TOTAL SHEETS
S	E N N.	I-40-5(19)259 PAVING	19 61	38	40

MATCH LINE SHEET Nº 24A

N.72°-15'-E. Forward-Tan

P.T. 509+05.13

N.21°42'-03"-W. 554.26

Δ 12°04.5'

S.89°-13'-12"-E.

* Pt 18

U.S.G.S. 67J

500 505 510 515 520

W.B. LANE

P.T. 509+05.13

EQ.

#33 C.B. G-513.8 FL-511.7

24'

N.72°-15'-E. E.B. LANE

Ditch

15"

FL-510.0

FENCE ITEM 173-7

SMITH CO. PUTNAM CO.

℄ I-40 STA. 514+28.4

CANEY FORK RIVER

#33 CB G-512.8 FL-510.7

36'

FL-507.0

15"

℄ FARM RD. SEE SHEET Nº 19C

FL-517.1

FL-507.0

P.T.

26°38'

135.62'

Sta. 519+40

℄ Median

90°

214.98'

D 10°

41°-09'

P.C.

CHANNEL CHANGE BOTTOM EL. 468

CHANNEL BOTTOM 40' WIDE EL. 468

ROCK FILL DAM Top El. 480 Top Width 10'

INDIAN CREEK

EQ. 521+92.53 Bk. = 16+00 Ahd. (I-40-6(5)268)

River Mi. 20.7

END OF PROJECT I-40-5(9)264 CONSTR.
STA. 521+70.00 E.B. LANE

TYPE	YEAR	PROJECT NO.	SHEET #
RESURF.	1999	IME-40-5(115)259	31

80001-8161-44
END OF PROJECT IME-40-5(115) 259 RESURF.
L.M. 0.05 E.B.L.
STA. 521+70.00 E.B.L.

END OF PROJECT I-40-5(19) 259 PAVING
STA. 514+20 E.B. LANE

END I-40-5(31)267 PAVING
STA. 518+50 EAST BOUND LANE

B.M.-U.S.G.S. 67J El. 514.40
Std. Disc. on S. Side of Abut.
W. End of T.C.R.R. Bridge.

NOTE:
Minimum Channel Width of 155' on Caney Fork River
Shall be Maintained During All Stages of Construction.

EASTBOUND LANE

EXC. EMB.

BOR. S.R. ~~20,800~~ 9,015 33,590
CHAN. EXC. 80,000 (~~26,000~~ TO BE USED IN RDWY. EMB; ~~54,000~~ 46,410 TO BE DISPOSED OF AS DIRECTED BY THE ENGINEER)
COM. ~~131,512~~ 127,186
EMB. ~~162,993~~ (INCLS. ~~29,104~~ ROCK FILL) 152,716 12,170

BOR. 35% SW.
CHAN. 20% SHR.
COM. 13% SHR.

EXC. EMB.

540 530 520 510 500 490 480 470 460

500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520 521

END I-40-5(31)267 PAVING
STA. 518+50 EAST BOUND LANE

Finished Grade

-1.80.82 %

1600' V.C.

P.V.T. El. 530.65

P.V.C. El. 521.61

1000' V.C.

P.V.T. El. 517.57

+1.00 %

Exist. Ground

P.V.I. El. 512.57

FARM ROAD

H.W. 501.9

BRIDGE Nº 6A
1-4 Span Precast Prestressed Box Girder
Composite Section Bridge Req'd.
2-Spans @ 70'; 2-Spans @ 90'
Total Length 320'
30' Roadway with Safety Curbs
90°-00' Skew (See Bridge Dwg. Nº G-15-127)

MEDIAN DRAINS & SPILLWAYS

LOCATION	TYPE	DWG Nº	DIMENSIONS DEPTH	DIAM	CLASS "A" CONC. CY.	STEEL LBS.	METAL END SECTION	CASTING LBS. CL. 20	CASTING LBS. CL. 30
512+00	#33 C.B.	M-D-2	2'-1"		1.35				145
512+00	Met. E.S.	CM-1-6		15"			1		
515+00	#33 C.B.	M-D-2	2'-1"		1.30				145
515+00	Met. E.S.	CM-1-6		15"			1		
1¾	Spillway	P-S-8			3.86	87			
TOTAL					6.51	87	2		290

* SEE SHEET Nº 19A

PIPES (MEDIAN DRAINS)

FROM LOCATION	FROM ELEV.	TO LOCATION	TO ELEV.	GRADE %	SIZE (IN.) & LENGTH (FT.)
512+00	511.7	Rt.	510.0	1.9	15" 90
515+00	510.7	Rt.	507.0	5.6	66
				TOTAL	156

NOTE: THIS SHEET INCLUDED IN PROJECT I-40-5(31) 267 PAVING (FINAL STAGE) PLANS TO SHOW THE WIDTH AND OUTLINE OF PAVEMENT AND ARE NOT INTENDED TO SHOW THE SCOPE OF WORK FOR THIS PROJECT.

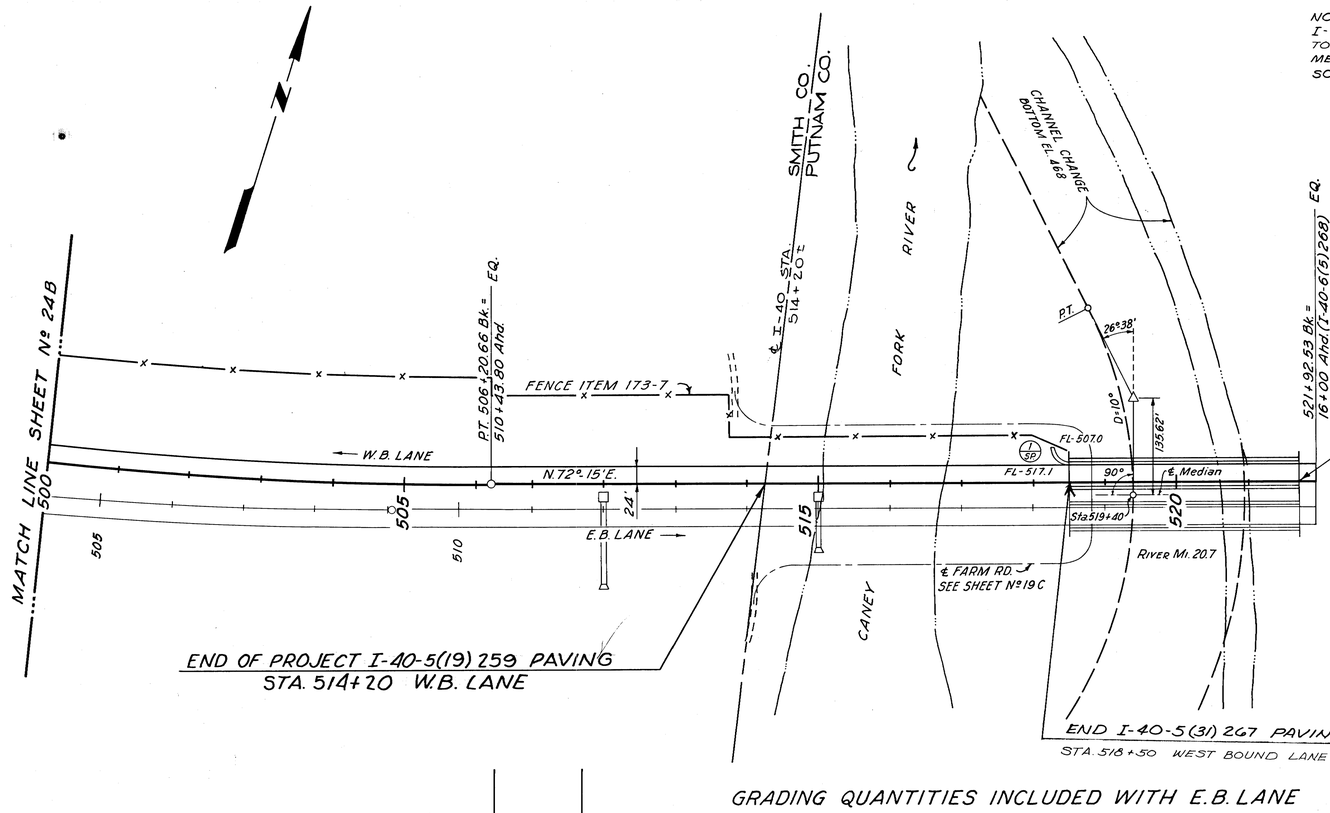
FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
3	TENN.	I-40-5(31)267 PAVING	12	23

3		I-40-5(9)264 CONSTR.	258	372

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
3	TENN.	I-40-5(19)259 PAVING	34	40

PROJECT	SHEET NO.
IR-40-5(9)259 1987	33

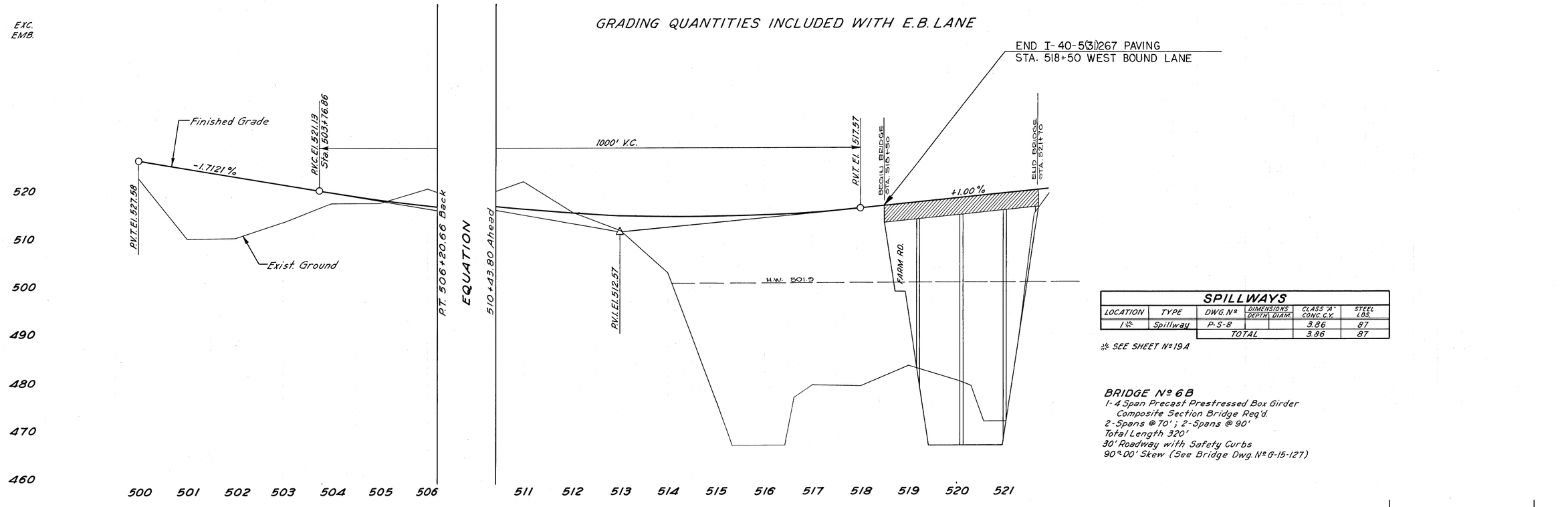
TYPE	YEAR	PROJECT NO.	SHEET #
RESURF.	1999	IME-40-5(115)259	32



NOTE:
Minimum Channel Width of 155' on Caney Fork River Shall be Maintained During All Stages of Construction.

WESTBOUND LANE

GRADING QUANTITIES INCLUDED WITH E.B. LANE



SPILLWAYS

LOCATION	TYPE	DWG. Nº	DIMENSIONS DEPTH	DIAM.	CLASS "A" CONC. C.Y.	STEEL LBS.
1℄	Spillway	P-S-8			3.86	87
		TOTAL			3.86	87

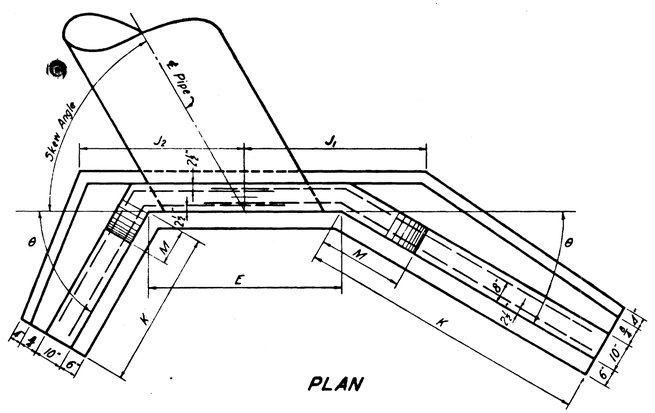
℄ SEE SHEET Nº 19A

BRIDGE Nº 6B

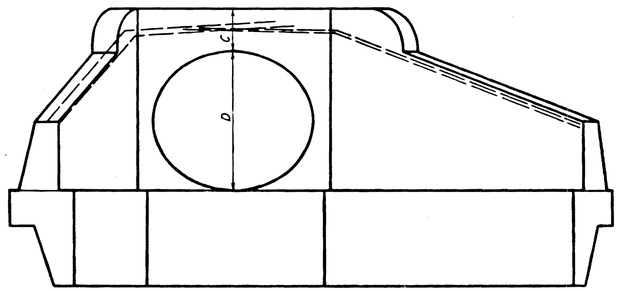
1-4 Span Precast Prestressed Box Girder Composite Section Bridge Req'd.
2-5spans @ 70'; 2-5pans @ 90'
Total Length 320'
30' Roadway with Safety Curbs
90°.00' Skew (See Bridge Dwg. Nº G-15-127)

MID-SOUTH ENGINEERING CO.

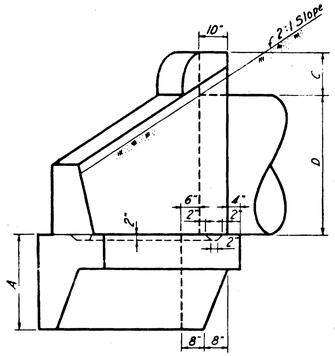
FED. ROAD DIST.	TENN	FEDERAL AID PROJECT No.	FISCAL YEAR	SHEET No.	TOTAL SHEETS
3		FAO-3(9)264 CONSTR.	1960	27	372



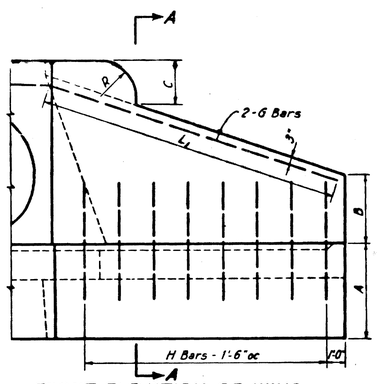
PLAN



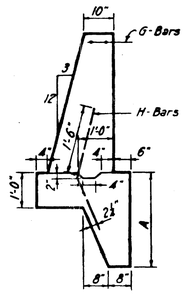
ELEVATION



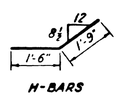
END VIEW



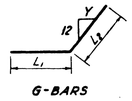
FRONT ELEVATION OF WING



SECTION A-A



H-BARS



G-BARS

DIAM. D	DIMENSIONS A	B	C	SKEW	E	J_1	J_2	WING	θ	K	M	R	REINFORCING STEEL H-BARS #4 3'-3" Lg. NO.	G-BARS #6 NO.	LENGTH L_1	L_2	TOTAL	BEND Y	QUANTITIES IN ONE ENDWALL STEEL LBS.	CONC. CU.YDS.
36"	2'-6"	1'-6"	1'-0"	90°	3'-8"	3'-6"	3'-6"	Both	45°	6'-0¼"	1'-9½"	1'-0"	8	4	6'-2"	3'-2"	9'-4"	11¾	73	3.89
				75°	3'-9½"	3'-8½"	3'-7"	Long	37°30'	7'-1½"	2'-2½"	1'-0"	4	2	7'-2"	3'-2"	10'-4"	15	73	4.00
								Short	52°30'	5'-3½"	1'-5½"	1'-0"	3	2	5'-6"	3'-3"	8'-9"	9		
				60°	4'-2⅝"	4'-1⅛"	3'-10"	Long	30°00'	8'-9¼"	2'-9¼"	1'-0"	5	2	8'-10"	3'-5"	12'-3"	19¾	80	4.37
								Short	60°00'	4'-8⅜"	1'-3"	1'-0"	3	2	5'-0"	3'-6"	8'-6"	6¾		
				45°	5'-2⅝"	5'-0¼"	4'-4½"	Long	22°30'	11'-7"	3'-9"	1'-0"	7	2	11'-7"	3'-11"	15'-6"	27	94	5.16
								Short	67°30'	4'-3¾"	1'-0¾"	1'-0"	3	2	4'-7"	4'-0"	8'-7"	5		
42"	2'-6"	1'-9"	1'-0"	90°	4'-3"	4'-0"	4'-0"	Both	45°	6'-8¾"	1'-9¼"	1'-0"	8	4	6'-11"	3'-5"	10'-4"	11¾	79	4.72
				75°	4'-4⅞"	4'-2⅛"	4'-0⅜"	Long	37°30'	7'-11¼"	2'-2¼"	1'-0"	5	2	8'-1"	3'-6"	11'-7"	15	84	4.85
								Short	52°30'	5'-10⅜"	1'-5¾"	1'-0"	4	2	6'-2"	3'-7"	9'-9"	9		
				60°	4'-11"	4'-8¼"	4'-3¾"	Long	30°00'	9'-9¾"	2'-9¾"	1'-0"	6	2	9'-10"	3'-9"	13'-7"	19¾	89	5.29
								Short	60°00'	5'-3½"	1'-3"	1'-0"	3	2	5'-8"	3'-10"	9'-6"	6¾		
				45°	6'-0¼"	5'-8¾"	4'-11"	Long	22°30'	12'-10⅜"	3'-9"	1'-0"	8	2	12'-11"	4'-4"	17'-3"	27	105	6.25
								Short	67°30'	4'-10¼"	1'-0¾"	1'-0"	3	2	5'-3"	4'-5"	9'-8"	5		
48"	2'-9"	2'-0"	1'-3"	90°	4'-10"	4'-7½"	4'-7½"	Both	45°	7'-5¾"	1'-9¼"	1'-0"	10	4	7'-8"	3'-9"	11'-5"	11¾	90	5.88
				75°	5'-0"	4'-8¼"	4'-5⅜"	Long	37°30'	8'-9"	2'-2½"	1'-0"	6	2	8'-11"	3'-9"	12'-8"	15	92	6.05
								Short	52°30'	6'-6¼"	1'-5¾"	1'-0"	4	2	6'-10"	3'-10"	10'-8"	9		
				60°	5'-7"	5'-3"	4'-9½"	Long	30°00'	10'-9¾"	2'-9¾"	1'-0"	7	2	10'-11"	4'-1"	15'-0"	19¾	100	6.60
								Short	60°00'	5'-10⅜"	1'-3"	1'-0"	4	2	6'-3"	4'-2"	10'-5"	6¾		
				45°	6'-10"	6'-5¼"	5'-5½"	Long	22°30'	14'-2½"	3'-9"	1'-0"	9	2	14'-3"	4'-9"	19'-0"	27	117	7.80
								Short	67°30'	5'-4¾"	1'-0¾"	1'-0"	4	2	5'-10"	4'-10"	10'-8"	5		
54"	2'-9"	2'-0"	1'-3"	90°	5'-5"	4'-11"	4'-11"	Both	45°	8'-10¾"	1'-9¼"	1'-0"	12	4	9'-2"	4'-0"	13'-2"	11¾	105	7.26
				75°	5'-7¼"	5'-2"	4'-11¼"	Long	37°30'	10'-4¾"	2'-2¼"	1'-0"	7	2	10'-8"	4'-1"	14'-9"	15	108	7.46
								Short	52°30'	7'-9½"	1'-5¾"	1'-0"	5	2	8'-2"	4'-2"	12'-4"	9		
				60°	6'-3"	5'-9⅜"	5'-3"	Long	30°00'	12'-9¾"	2'-9¾"	1'-0"	8	2	12'-11"	4'-5"	17'-4"	19¾	114	8.13
								Short	60°00'	7'-0¼"	1'-3"	1'-0"	4	2	7'-6"	4'-6"	12'-0"	6¾		
				45°	7'-8"	7'-1⅜"	6'-0"	Long	22°30'	16'-9¼"	3'-9"	1'-0"	11	2	16'-11"	5'-2"	22'-1"	27	136	9.60
								Short	67°30'	6'-5¾"	1'-0¾"	1'-0"	4	2	7'-0"	5'-3"	12'-3"	5		
60"	3'-0"	2'-0"	1'-6"	90°	6'-0"	5'-4½"	5'-4½"	Both	45°	10'-3¼"	1'-9¼"	1'-0"	14	4	10'-8"	4'-4"	15'-0"	11¾	120	9.07
				75°	6'-2⅝"	5'-8"	5'-4⅞"	Long	37°30'	12'-0¼"	2'-2¼"	1'-0"	8	2	12'-4"	4'-5"	16'-9"	15	123	9.32
								Short	52°30'	9'-0¾"	1'-5¾"	1'-0"	6	2	9'-7"	4'-6"	14'-1"	9		
				60°	6'-11¼"	6'-4⅝"	5'-8¾"	Long	30°00'	14'-9¾"	2'-9¾"	1'-0"	9	2	15'-0"	4'-9"	19'-9"	19¾	130	10.17
								Short	60°00'	8'-2¼"	1'-3"	1'-0"	5	2	8'-9"	4'-10"	13'-7"	6¾		
				45°	8'-5¾"	7'-10⅛"	6'-6½"	Long	22°30'	19'-5¼"	3'-9"	1'-0"	12	2	19'-7"	5'-6"	25'-1"	27	152	12.00
								Short	67°30'	7'-6¾"	1'-0¾"	1'-0"	5	2	7'-6"	5'-8"	13'-2"	5		
66"	3'-3"	2'-0"	1'-6"	90°	6'-7"	5'-10"	5'-10"	Both	45°	11'-8¾"	1'-9¼"	1'-0"	24	4	11'-5"	4'-8"	16'-1"	11¾	153	11.41
				75°	7'-0"	6'-3"	5'-11¼"	Long	37°30'	13'-8¾"	2'-2¼"	1'-0"	14	2	13'-5"	4'-10"	18'-3"	15	158	11.74
								Short	52°30'	10'-3¾"	1'-5¾"	1'-0"	11	2	10'-0"	4'-11"	14'-11"	9		
				60°	7'-9¾"	7'-0¾"	6'-3⅜"	Long	30°00'	16'-9¼"	2'-9¼"	1'-0"	17	2	16'-6"	5'-3"	21'-9"	19¾	169	12.82
								Short	60°00'	9'-4"	1'-3"	1'-0"	9	2	9'-1"	5'-4"	14'-5"	6¾		
				45°	9'-6¼"	8'-8¼"	7'-2¼"	Long	22°30'	22'-0½"	3'-9"	1'-0"	22	2	21'-9"	6'-2"	27'-11"	27	198	16.60
								Short	67°30'	8'-8"	1'-0¾"	1'-0"	8	2	8'-3"	6'-3"	14'-6"	5		
				35°	11'-5⅝"	10'-6¾"	8'-11"	Long	47°30'	28'-1¼"	4'-9"	1'-0"	28	2	27'-9"	6'-6"	34'-3"	35	225	18.00
								Short	72°30'	8'-3⅜"	1'-0"	1'-0"	8	2	8'-2"	6'-8"	14'-10"	4		

MID-SOUTH ENGINEERING CO., INC.
820 BROADWAY, N. E. KNOXVILLE, TENNESSEE

TYPE-A CONCRETE ENDWALL 2:1 FILL SLOPE

STATE OF TENNESSEE
DEPARTMENT OF HIGHWAYS AND PUBLIC WORKS
NASHVILLE

DR. J.L.M.	DATE 7-15-58
CHK'D	
APP'D	

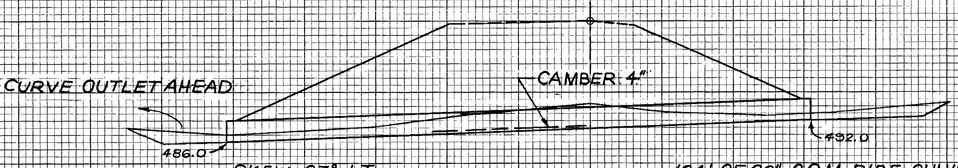
ORIGINAL SURVEY		BY	DATE
	SURVEYED		
	PLOTTED		
NOTE BOOK	TEMPLATE		
NO.	AREAS		
	AREAS CHECKED		

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

MICROFILMED

TENN. STATE HIGHWAYS
Plans File No. 50
Divn. 3

PLATE 3 - CROSS SECTION O. P. R. & E. STANDARD
KEUFFEL & ESSER CO., NEW YORK.

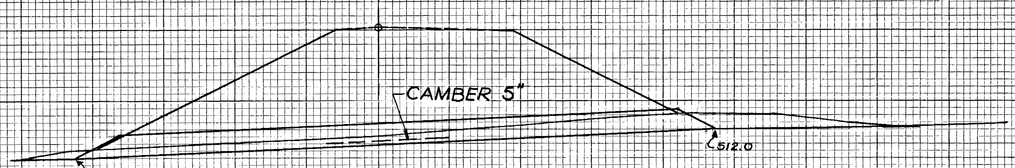


500 275+42 WBL

480

SKEW 67° LT.
D.A. 1.25 AC. H.
2- TYPE A CONC. ENDWALLS - 60°
DWG. NO. C M-1-4; CM-1-7.
SHEET NO. 20

164' OF 66" C.G.M. PIPE CULVERT
U.S. STD. GA. #10 STRUTTED
25.64 CU. YDS. CLASS "A" CONC.
338 LBS. REINF. STEEL.



500 237+00 EBL

480

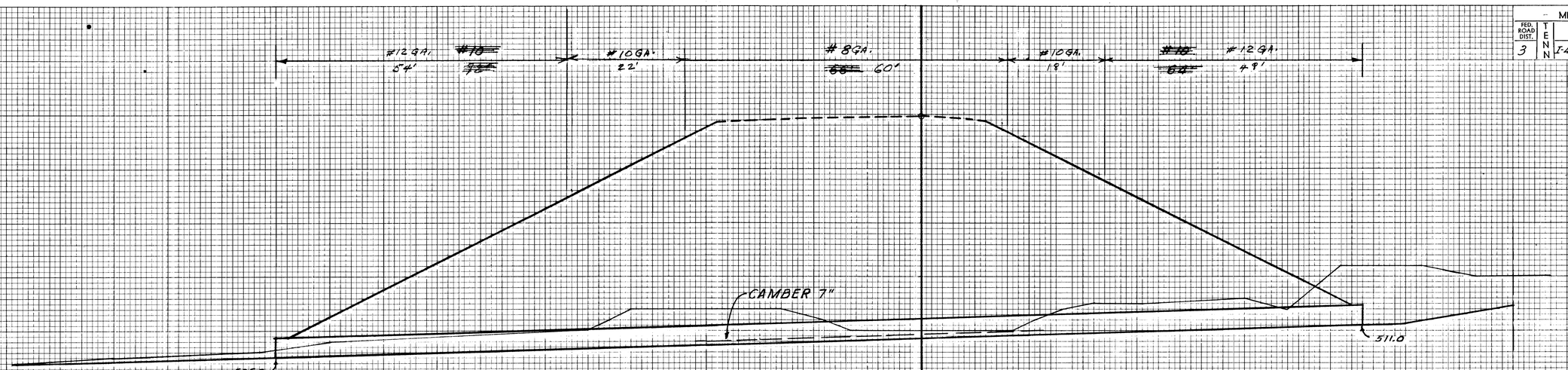
SKEW 90°
D.A. 1.13 AC. H.
BEVELLED ENDS
DWG. NO. CM-1-4; 5; 7

170' OF 66" C.G.M. PIPE CULVERT
U.S. STD. GA. #10 STRUTTED
8.2 CU. YDS. RIP-RAP.

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
3	TENN.	I-40-5(3)264	1960	146	372

MID-SOUTH ENGINEERING CO.

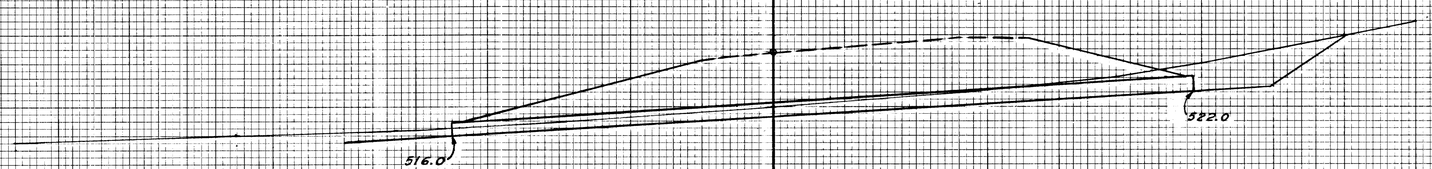
FED. ROAD DIST.		FEDERAL AID PROJECT No.	FISCAL YEAR	SHEET No.	TOTAL SHEETS
3	TENN	I-40-5(7)264	1960	~~146~~ 141	~~345~~ 372



SKEW 90°
D.A.-34 AC. H.
2-MET. END SECTIONS
DWG. NO. CM-1-4;6

202' OF 42" C.G.M. PIPE CULV.
U.S. STD. GA. # 8, #10 AND #12
89 CU. YDS. GRANULAR BACKFILL

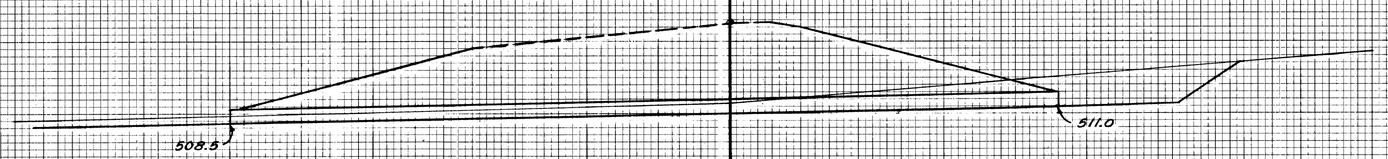
510
373+80 W.B.L.



SKEW 90°
D.A.-8 AC. H.
2-STR. CONC. ENDWALLS
DWG. NO. E-2-90

104' OF 24" STD. STR. CONC. PIPE CULV.
5.02 CU. YDS. CLASS "A" CONC.
290 LBS. REINF. STEEL
28 CU. YDS. GRANULAR BACKFILL

530
315+50 E.B.L.



510
315+00 W.B.L.

500

SKEW 90°
D.A.-10 AC. H.
2-STR. CONC. ENDWALLS
DWG. NO. E-2-90

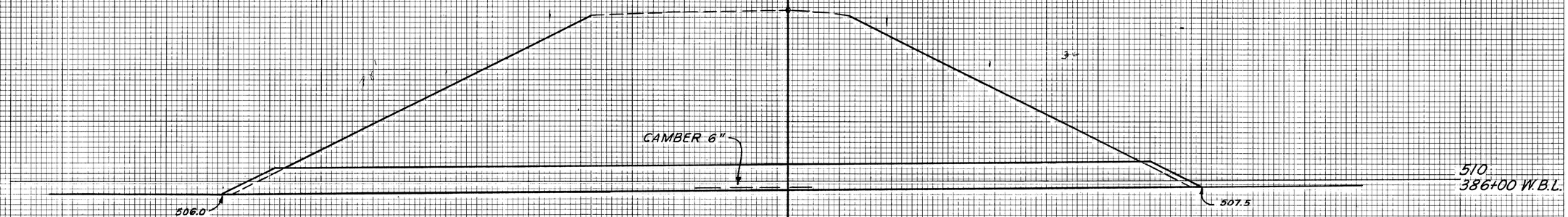
116' OF 24" STD. STR. CONC. PIPE CULV.
5.02 CU. YDS. CLASS "A" CONC.
290 LBS. REINF. STEEL
31 CU. YDS. GRANULAR BACKFILL

FINAL SURVEY — NOTE BOOK NO. ____ — SURVEYED BY ____ — PLOTTED BY ____ — TYPE AREAS ____ — AREAS CHECKED ____ — DATE ____

ORIGINAL SURVEY — NOTE BOOK NO. ____ — SURVEYED BY ____ — PLOTTED BY [illegible] — TYPE AREAS ____ — AREAS CHECKED ____ — DATE ____

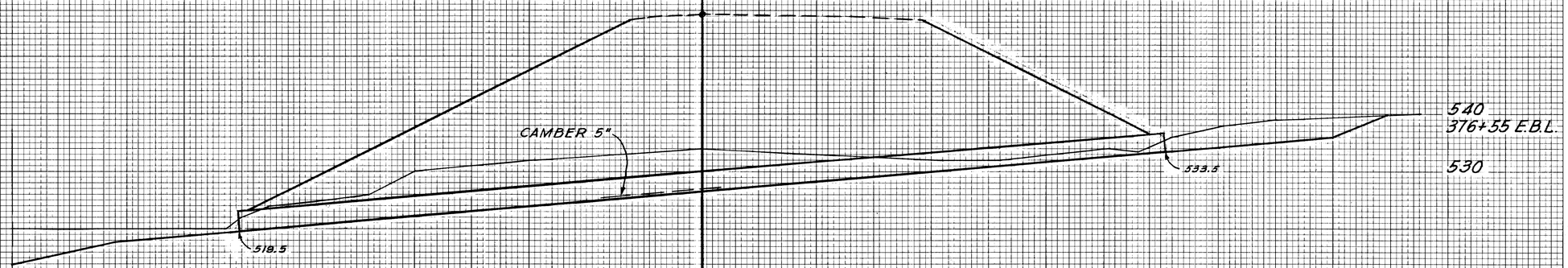
MID-SOUTH ENGINEERING CO.

FED. ROAD DIST.		FEDERAL AID PROJECT No.	FISCAL YEAR	SHEET No.	TOTAL SHEETS
3	TENN	I-40-5(9)264	1960	~~147~~ 148	~~345~~ 372



SKEW 90°
D.A.-95 AC. H.
BEVELLED ENDS
DWG. NO. CM-1-4;5;7

180' OF 60" C.G.M. PIPE CULV.
U.S. STD. GA. #10 STRUTTED
7.6 CU. YDS. RIP-RAP
116 CU. YDS. GRANULAR BACKFILL



SKEW 85° RT.
D.A.-27 AC. H.
2-MET. END SECTIONS
DWG. NO. CM-1-4;6

162' OF 42" C.G.M. PIPE CULV.
U.S. STD. GA. # ~~12~~ #12
72 CU. YDS. GRANULAR BACKFILL

TENN. STATE HIGHWAYS
Plans | File IN-
Divn. | No. 50

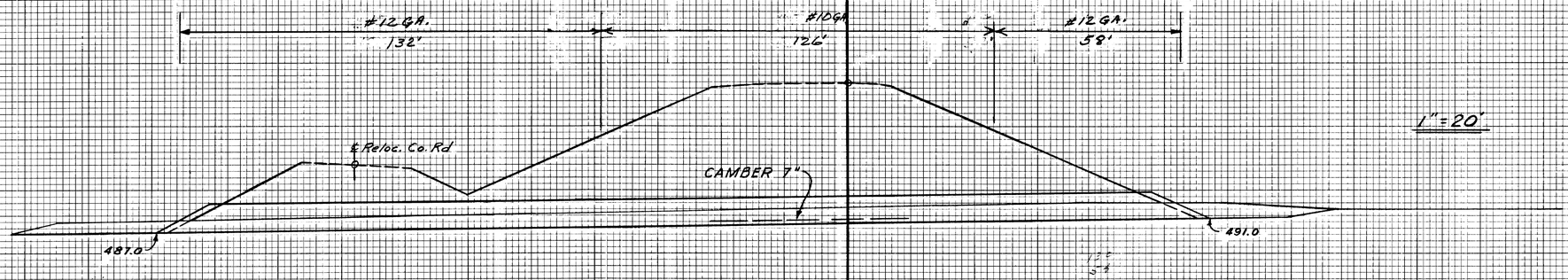
MICROFILMED

FINAL SURVEY — DATE / BY / SURVYCED / PLOTTED / TRIANGLE AREAS / NOTE BOOK / NO. / AREAS CHECKED

ORIGINAL SURVEY — DATE / BY / SURVYCED / PLOTTED / TRIANGLE AREAS / NOTE BOOK / NO. / AREAS CHECKED

MID-SOUTH ENGINEERING CO.

FED. ROAD DIST.	T E N N	FEDERAL AID PROJECT No.	FISCAL YEAR	SHEET No.	TOTAL SHEETS
3		I-40-5(7)266A	1960	~~145~~ 149	~~343~~ 372

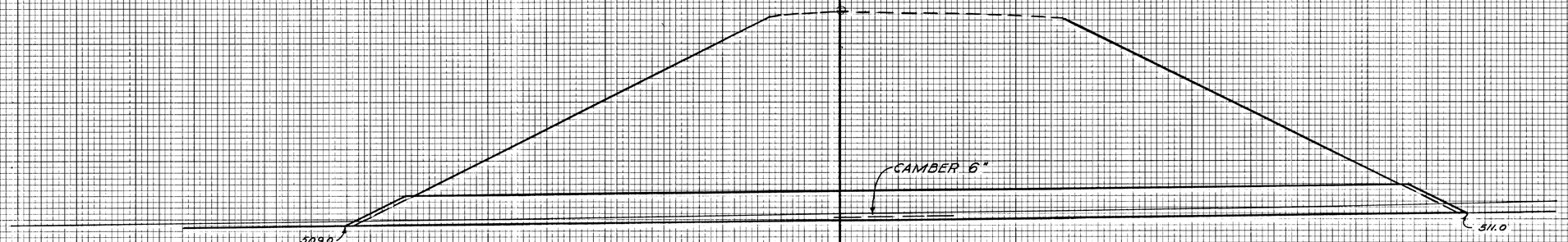


1" = 20'

520
397+74 W.B.L.
500

SKEW 60° LT.
D.A.-382 AC. H.
BEVELLED ENDS (70°)
DWG. NO. CM-1-4;5;7

316' OF 102" C.M.S.P. PIPE CULV.
U.S. STD. GA. ~~#7, #8 AND~~ #10 & #12 STRUTTED
12.4 CU. YDS. RIP-RAP
381 CU. YDS. GRANULAR BACKFILL



520
389+00 E.B.L.
510

SKEW 90°
D.A.-86 AC. H.
BEVELLED ENDS
DWG. NO. CM-1-4;5;7

182' OF 60" C.G.M. PIPE CULV.
U.S. STD. GA. #10 STRUTTED
7.6 CU. YDS. RIP-RAP
117 CU. YDS. GRANULAR BACKFILL

TENN. STATE HIGHWAYS
Plans File IN-
Divn. No. 50

MID-SOUTH ENGINEERING CO.					
FED. ROAD DIST.	T E N N	FEDERAL AID PROJECT No.	FISCAL YEAR	SHEET No.	TOTAL SHEETS
3		I-40-5(9)264	1968	~~149~~ 150	~~373~~ 372

ORIGINAL SURVEY — SURVEYED; PLOTTED; TEMPLATE; NOTE BOOK; AREAS; NO.; AREAS CHECKED; BY; DATE

FINAL SURVEY — SURVEYED; PLOTTED; TEMPLATE; NOTE BOOK; AREAS; NO.; AREAS CHECKED; BY; DATE

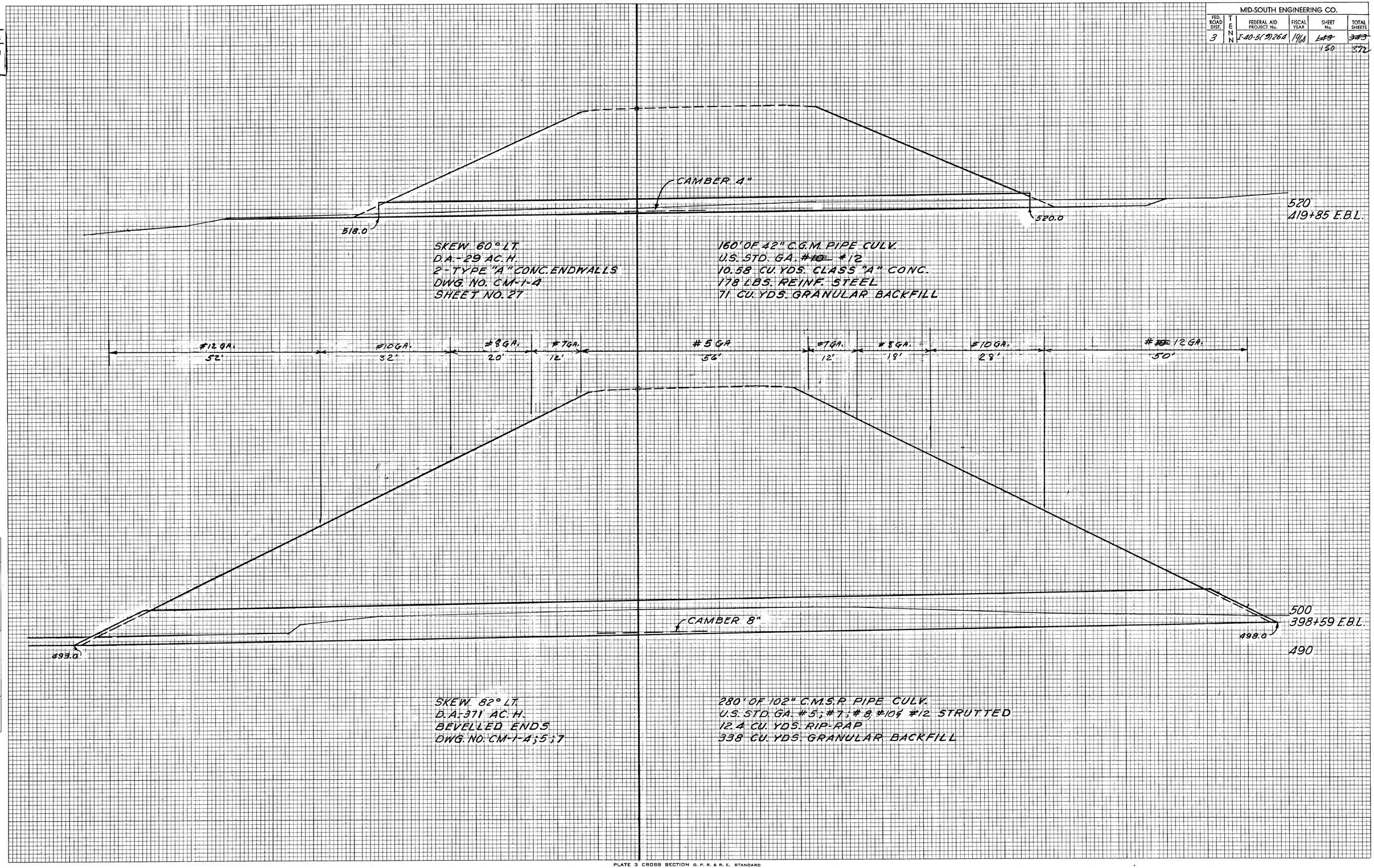
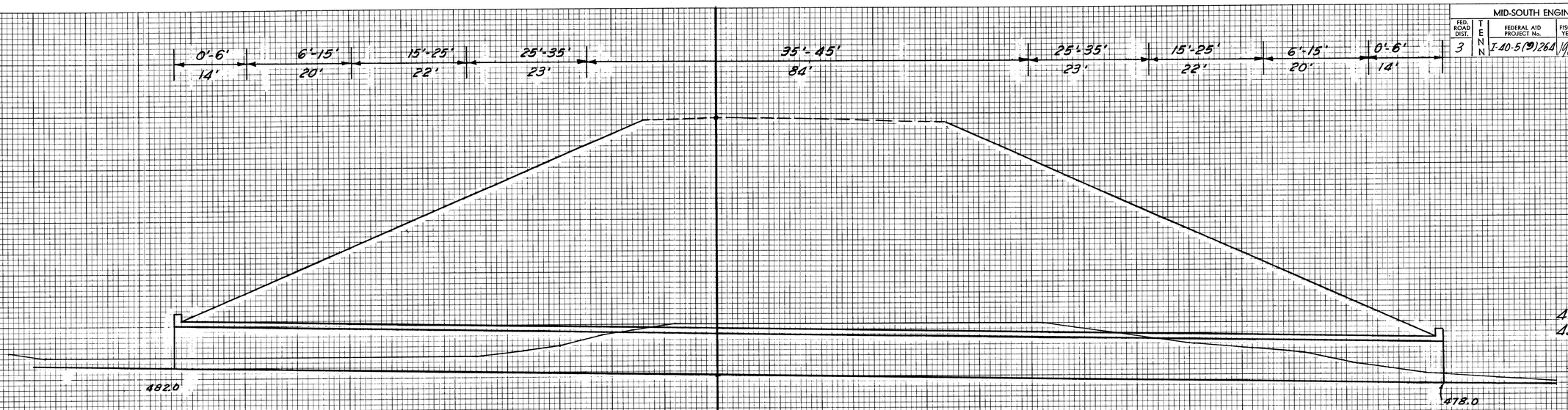


PLATE 3 CROSS SECTION D. P. R. & R. E. STANDARD
100% RAG PAPER-MADE AND PRINTED IN U. S. A.
EUGENE DIETZGEN CO.

TENN. STATE HIGHWAYS
Plans File IN-
Divn. No. 50

MID-SOUTH ENGINEERING CO.				
FED. ROAD DIST.	FEDERAL AID PROJECT No.	FISCAL YEAR	SHEET No.	TOTAL SHEETS
3 TENN	I-40-5(9)260	1960	~~150~~ 161	~~343~~ 372

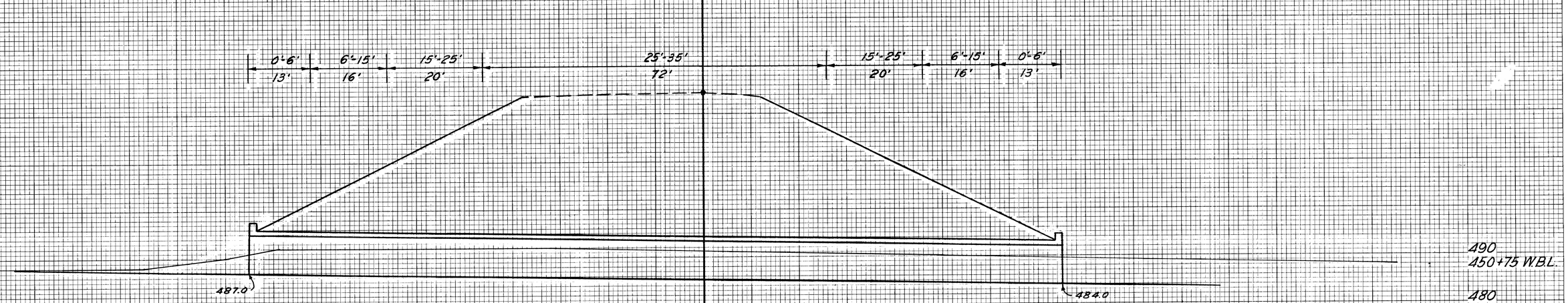
FINAL SURVEY — SURVEYED ___ PLOTTED ___ TEMPLATE ___ AREAS ___ AREAS CHECKED ___ NOTE BOOK ___ NO. ___ BY ___ DATE ___



SKEW 60° RT.
D.A.-492 AC.H.
DWG. NO. E-8-58; C-4-141

242' OF 8'x8' CONC. BOX CULV.
391.59 CU. YDS. CLASS "A" CONC.
53,600 LBS. REINF. STEEL

ORIGINAL SURVEY — SURVEYED ___ PLOTTED ___ TEMPLATE ___ AREAS ___ AREAS CHECKED ___ NOTE BOOK ___ NO. ___ BY ___ DATE ___



SKEW 90°
D.A.-477 AC.H.
DWG. NO. E-8-57; C-4-141

170' OF 8'x8' CONC. BOX CULV.
253.52 CU. YDS. CLASS "A" CONC.
35,086 LBS. REINF. STEEL

ORIGINAL SURVEY		BY	DATE
	SURVEYED		
	PLOTTED EGB,FAL		
NOTE BOOK	TEMPLATE		
NO.	AREAS		
	AREAS CHECKED		

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

TENN. STATE HIGHWAYS
Plans File
Divn. No. 50 IN-

510
86+00

SKEW 90°
D.A.-95 AC. H.

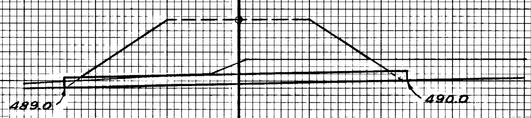
44' OF 60" STD. STR. CONC. PIPE CULV.

500
76+00

SKEW 90°
D.A.-36 AC. H.

40' OF 42" STD. STR. CONC. PIPE CULV.

490
70+00



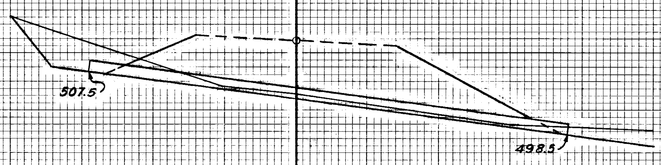
SKEW 90°
D.A.-4 AC. H.

48' OF 18" STD. STR. CONC. PIPE CULV.

FARM ROAD @ 370 TO 397 W.B.L.

510
27+88

500



SKEW 45° RT.
D.A.-4 AC. H.

68' OF 18" STD. STR. CONC. PIPE CULV.

FARM ROAD @ 332± E.B.L.

PLATE 10 CROSS SECTION IN H & H STANDARD
1951 PROPERTY MAP PRINTED IN U.S.A.
EUGENE DIETZGEN CO.

MID-SOUTH ENGINEERING CO.

FED. ROAD DIST.	STATE	FEDERAL AID PROJECT No.	FISCAL YEAR	SHEET No.	TOTAL SHEETS
3	TENN.	F-40-5(7)264(4)	1961	156	372

FARM ROAD @ 332± E.B.L.
FARM ROAD @ 370 to 397 W.B.L.

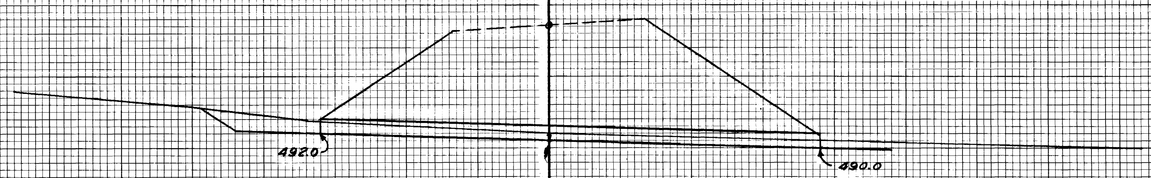
MICROFILMED

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

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

TENN. STATE HIGHWAYS
Plans
Div.
File No. 50

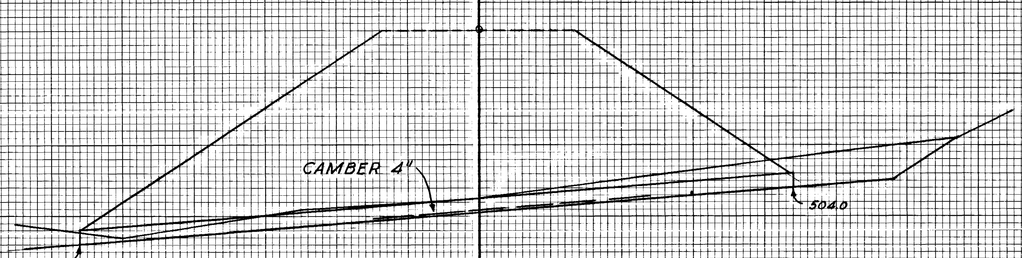
490
21+50



SKEW 90°
D.A.-5 AC. H.
2-MET. END SECTIONS
DWG. NO. CM-1-4; 6

70' OF 24" C.G.M. PIPE CULV.
U.S. STD. GA. #14

500
18+00



SKEW 90°
D.A.-8 AC. H.
2-MET. END SECTIONS
DWG. NO. CM-1-4; 6

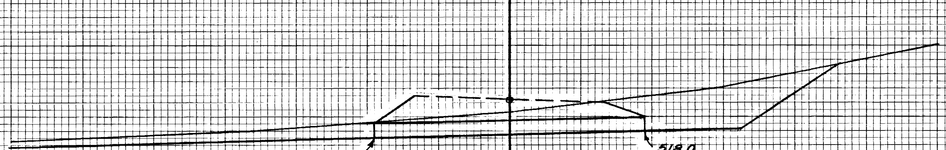
100' OF 24" C.G.M. PIPE CULV.
U.S. STD. GA. #14

540
12+00

SKEW 90°
D.A.-8 AC. H.
2-STR. CONC. ENDWALLS
DWG. NO. D-0-13

38' OF 24" STD. STR. CONC. PIPE CULV.
3.24 CU. YDS. CLASS "A" CONC.

530
7+50
520



SKEW 90°
D.A.-8 AC. H.
2-STR. CONC. ENDWALLS
DWG. NO. D-0-13

38' OF 24" STD. STR. CONC. PIPE CULV.
3.24 CU. YDS. CLASS "A" CONC.

PLATE 3 CROSS SECTION: D. P. R. & R. E. STANDARD
100% RAG PAPER MADE AND PRINTED IN U. S. A.

MID-SOUTH ENGINEERING CO.

RELOC. COUNTY ROAD @ 401+85 E.B.L.

FED. HIGHWAY DIST.	T E N N	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
3	N	I-40-5(19)264	1960	153	312