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26-41	CROSS-SECTIONS. Destroyed 11/16/76

STATE OF TENNESSEE
DEPARTMENT OF HIGHWAYS AND PUBLIC WORKS

PLAN AND PROFILE OF PROPOSED
STATE HIGHWAY

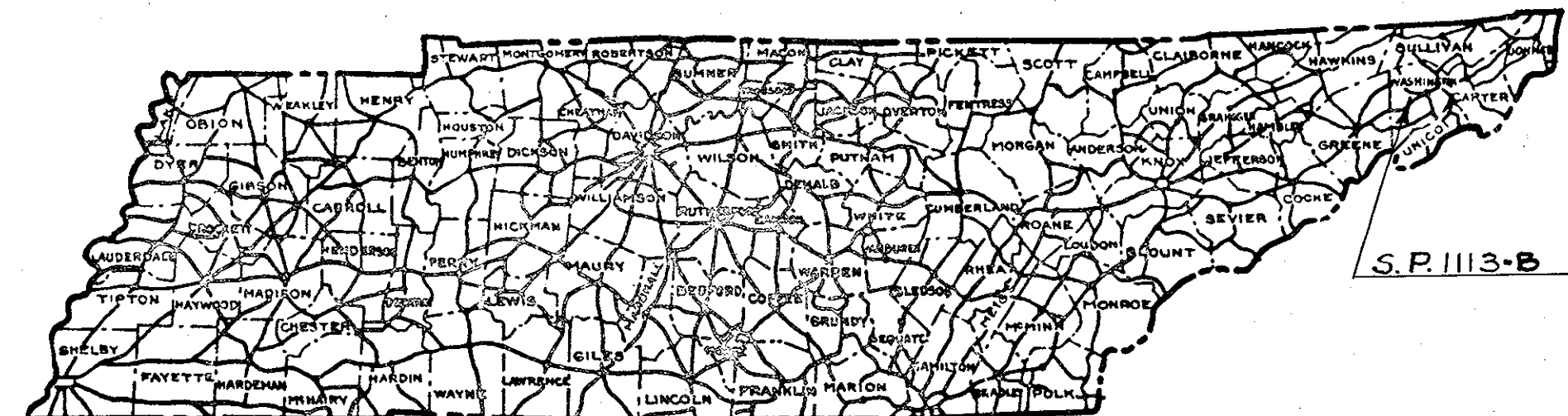
STATE PROJECT NO. 1113-B

WASHINGTON COUNTY

TAYLOR BRIDGE AND APPROACHES ACROSS
NOLICHUCKY RIVER NORTH OF ERWIN.

STATE HIGHWAY NO. 81 F.A.H.S. NO.

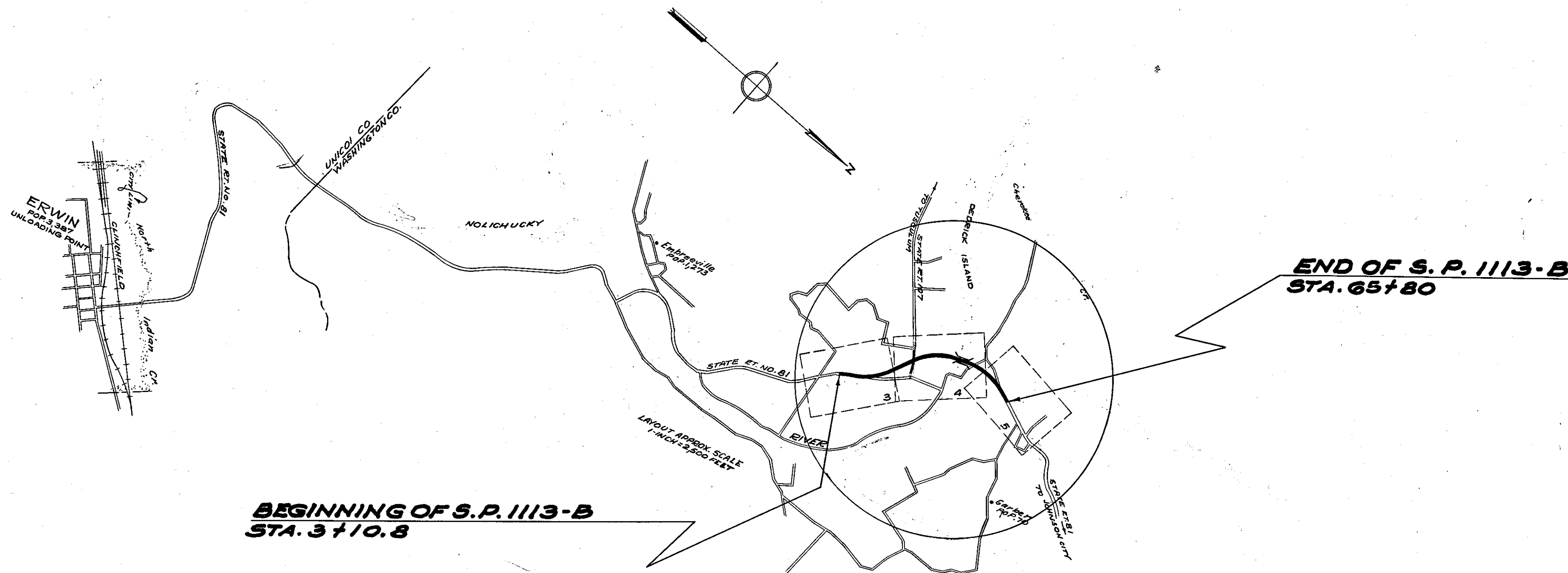
SCALES { PLAN, 1 IN.=100 FT.
PROFILE, HOR. 1 IN.=100 FT., VERT. 1 IN.=10 FT.



NO EXCLUSIONS
NO EXCEPTIONS
NO EQUATIONS

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

THE CONTRACTOR WILL BE REQUIRED TO MAINTAIN
TRAFFIC WHERE PRESENT ROADS COINCIDE WITH OR
CROSS THIS PROJECT.



APPROVED _____
ENGINEER OF SURVEYS AND DESIGN

DATE _____

APPROVED _____
STATE HIGHWAY ENGINEER

DATE _____

APPROVED _____
COMMISSIONER

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	---

ROADWAY	LENGTH	1.122	MILES
BRIDGE	LENGTH	0.065	MILES
PROJECT	LENGTH	1.187	MILES

APPROVED: _____
DISTRICT ENGINEER DATE

PIPE CULVERT & ENDWALLS

STATION	D. A. ACRES	SIZE AND LENGTH				SKEW	CL. A' CONC. CULVERT	REINF. STL. LB.	DWG. NO.	REMARKS
		18"	30"	36"	72"x44"					
8+50	5	58'				90°	1.7	20	D-O-13	
11+00	18		56'			90°	5.0	215	D-O-13&E-2-30	
19+26	120				58'	90°	-	-	CM-14&C	METAL END SECTIONS REQ'D.
27+50	RELIEF	92'				90°	1.7	20	D-O-13	
31+20	26			82'		90°	5.4	20	A-4-83	
51+75	10		70'			90°	3.9	20	D-O-13	
54+40	15		112'			45°	7.1	-	D-O-13	
64+25	14		54'			90°	4.7	20	D-O-13&E-2-30	
TOTAL		150'	292'	82'	58'		29.5	315		

GRADING QUANTITIES

STATION TO STATION	ROAD & DRAINAGE EXC. (UNCL.) COMMON	SOLID ROCK	BORROW	CHANNEL EXC. (UNCL.)
3+10.80 32+78.7	33,785	-	-	
32+64.0 66+00.0	9,221	14,263	9,890	
TOTAL	43,006	14,263	9,890	

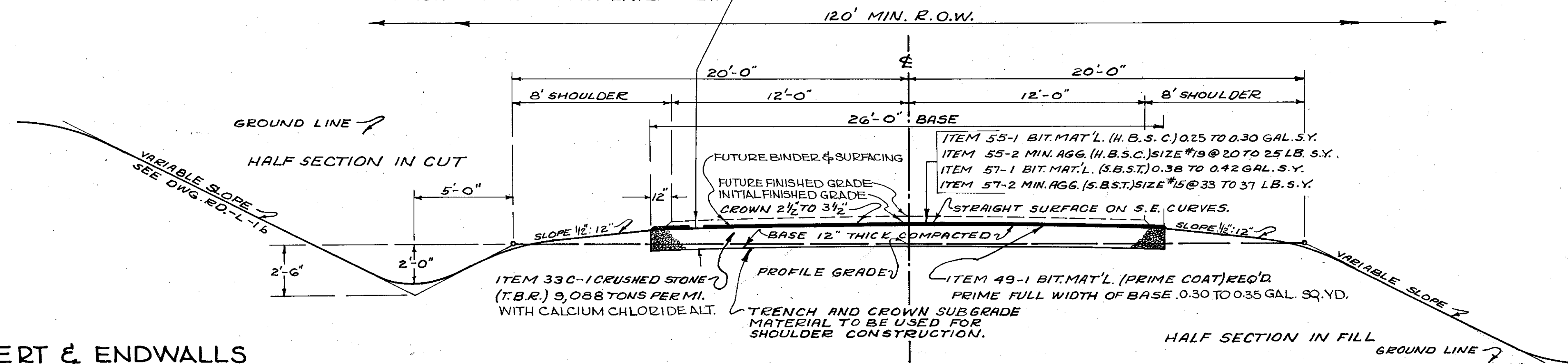
RAMPS & SIDE DRAINS

STATION	LOC.	SIZE & LENGTH		CL. A' CONC. CULVERT	REINF. STL. LB.	REMARKS
		15"	18"			
10+46	LT.	26'		-	-	C.M. PIPE CULVERT REQ'D.
24+01.9	LT. & RT.		* 210'	-	-	C.M. PIPE CULVERT REQ'D. (120' LT. & 90' RT.)
45+58	LT.		* 80'	-	-	C.M. PIPE CULVERT REQ'D.
TOTAL		26'	210'	-	-	

* METAL END SECTIONS.

R.O.W. MARKERS	
TOTAL "A"	31
TOTAL "B"	12
TOTAL "C"	20
GRAND TOTAL	63

TO BE COMPACTED IN THREE (3) EQUAL LAYERS OR TWO (2) LAYERS IF SPREADER AND VIBRATORY ROLLER IS USED TO GET REQUIRED DENSITY. CALCIUM CHLORIDE IN TOP LAYER ONLY.



TYPICAL CROSS-SECTION OF IMPROVEMENT

NOTE: FOR VARIABLE SLOPES AND RADII SEE DWG. RD-L-1b
FOR SUPERELEVATION DETAILS SEE DWG. S-E-1.
FOR MINIMUM DESIGN STANDARDS SEE DWG. ST-R-2

ESTIMATED ROADWAY QUANTITIES

ITEM NO.	DESCRIPTION	QUANTITY	UNIT
11-1	CLEARING AND GRUBBING	1	LUMP SUM
13-3	ROAD AND DRAINAGE EXCAVATION (UNCLASSIFIED)	57,269	CU. YD.
13-5	WATER (EMBANKMENT & T. B. R.)	380	M - GAL.
15-1	BORROW EXCAVATION (COMMON)	9,890	CU. YD.
33C-1	CRUSHED STONE (TRAFFIC BOUND ROADWAY)	13,956	TON
33C-1b	FLAKED CALCIUM CHLORIDE (TRAFFIC BOUND ROADWAY)	14	TON
33C-1c	CONCENTRATED CALCIUM CHLORIDE (TRAFFIC BOUND ROADWAY)	11	TON
49-1	BITUMINOUS MATERIAL (PRIME COAT)	42	TON
55-1	BITUMINOUS MATERIAL (H. B. S. C.)	32	TON
55-2	MINERAL AGGREGATE (H. B. S. C.)	467	TON
57-1	BITUMINOUS MATERIAL (S. B. S. T.)	44	TON
57-2	MINERAL AGGREGATE (S. B. S. T.)	454	TON
135-4	CLASS "A" CONCRETE	23.5	CU. YD.
135-12	STEEL BAR REINFORCEMENT	315	LB.
141-3	18" CONCRETE PIPE CULVERT	150	LIN. FT.
141-5	30" CONCRETE PIPE CULVERT	292	LIN. FT.
141-6	36" CONCRETE PIPE CULVERT	82	LIN. FT.
144-	15" CORRUGATED METAL PIPE (SIDE DRAIN)	126	LIN. FT.
144-	18" CORRUGATED METAL PIPE (SIDE DRAIN)	320	LIN. FT.
147-	72"x44" CORRUGATED METAL PIPE-ARCH CULVERT	58	LIN. FT.
159-	18" CORRUGATED METAL PIPE CULVERT END SECTION	6	EACH
159-	72"x44" CORRUGATED METAL PIPE-ARCH CULVERT END SECTION	2	EACH
174-2	MARKERS (R.O.W. POST)	63	EACH

- INCLUDES 144 M. GAL. FOR CRUSHED STONE (T.B.R.)
- INCLUDES 1209 TONS FOR COUNTY ROADS AND PRIVATE DRIVES.
- ALTERNATES - QUANTITY MAY BE REDUCED OR ENTIRELY ELIMINATED AT THE DISCRETION OF THE ENGINEER.
- TAR OR CUT BACK ASPHALT - INCLUDES 7 TONS FOR COUNTY ROADS.
- INCLUDES 4 TONS FOR COUNTY ROADS.
- INCLUDES 151 TONS CHOKER STONE @ 15* PER SQ. YD. AND 48 TONS FOR COUNTY ROADS.
- INCLUDES 5 TONS FOR COUNTY ROADS.
- INCLUDES 58 TONS FOR COUNTY ROADS.
- INCLUDES 100' FT. 15" C.M. PIPE TO BE PLACED AS DIRECTED BY THE ENGINEER.
- INCLUDES 100' FT. 18" C.M. PIPE TO BE PLACED AS DIRECTED BY THE ENGINEER.

-NOTES-

PROFILE GRADES SHOWN ON PLAN AND PROFILE SHEETS IS APPROX. 1'-6" BELOW FINAL FINISH GRADE.

UNDER ITEM 15-1 THE CONTRACTOR WILL BE REQUIRED TO FURNISH SUITABLE BORROW MATERIAL FROM A SITE APPROVED BY THE ENGINEER. THE BORROW MATERIAL SHALL BE TAKEN IN A MANNER THAT MAY BE READILY MEASURED.

THE COST OF PIPE CULVERT AND ENDWALL EXCAVATION IS TO BE INCLUDED IN THE UNIT PRICE, BID PER LIN. FT. OF PIPE CULVERT.

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

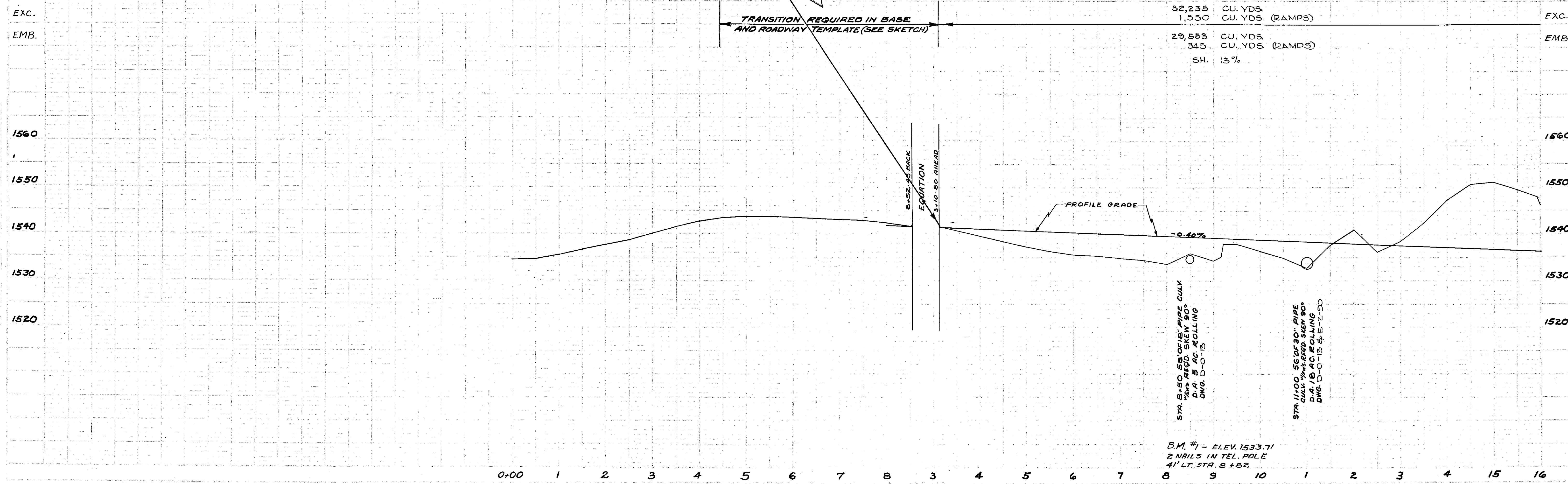
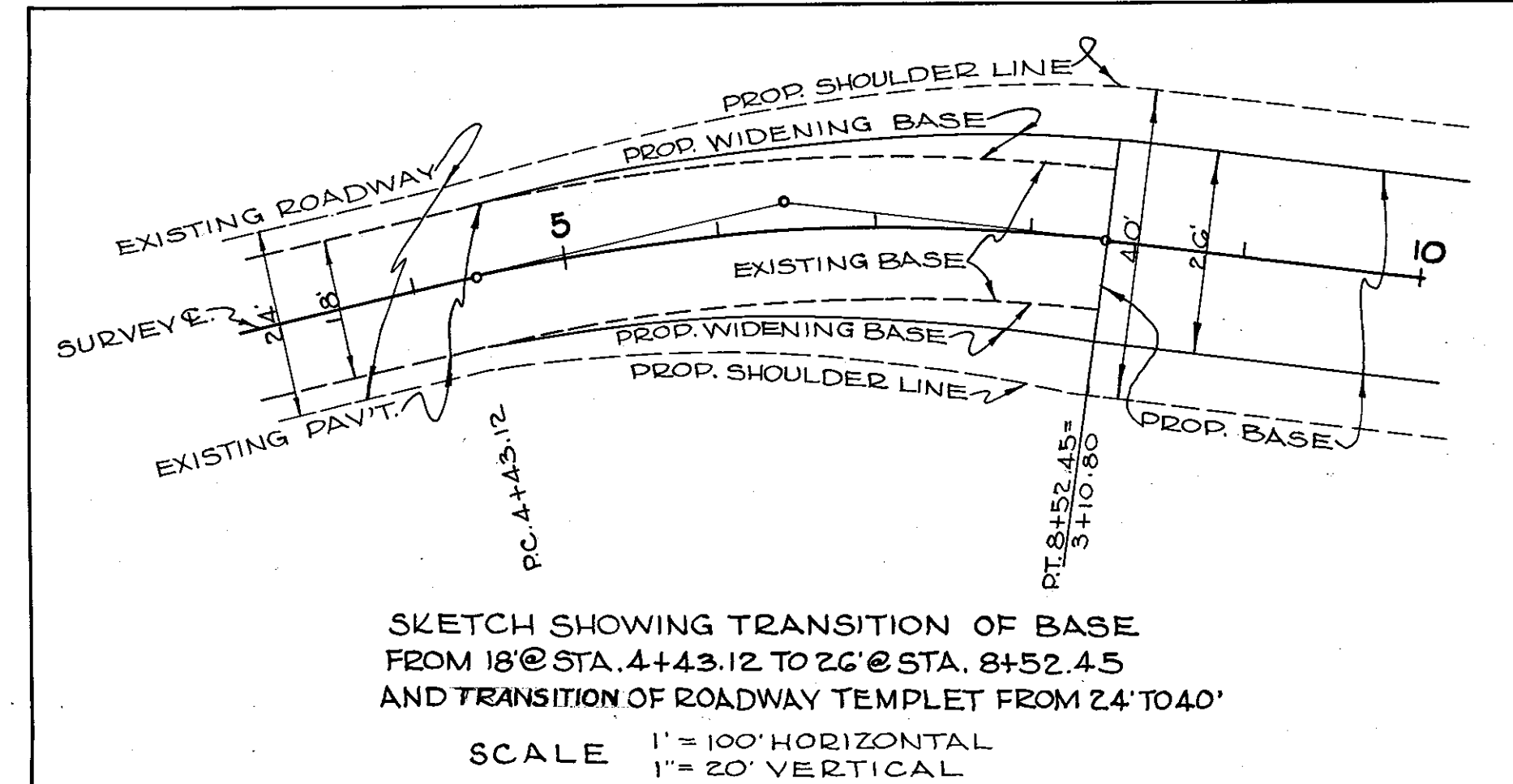
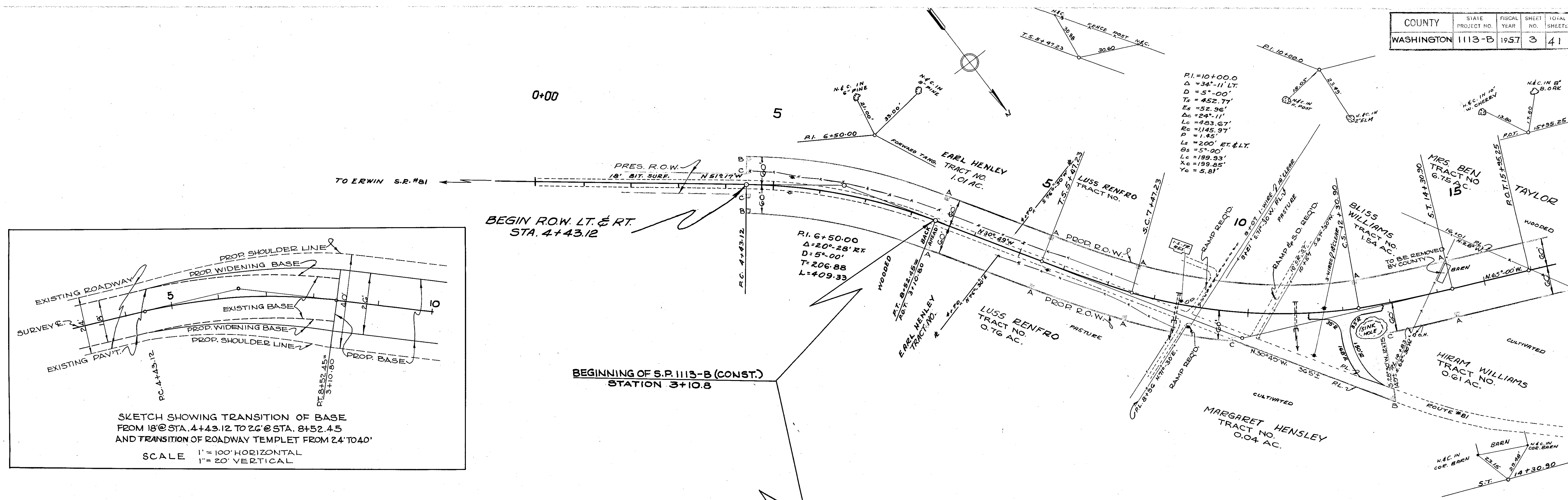
STATION	32+00
TYPE	CONC. DECK GIRDER
SPANS	28'3" & 5'53"
SKEW	20°
LENGTH	34.3'
ROADWAY	28' R.D.Y. & SAFETY CURBS
LAYOUT DWG.	F-14-150

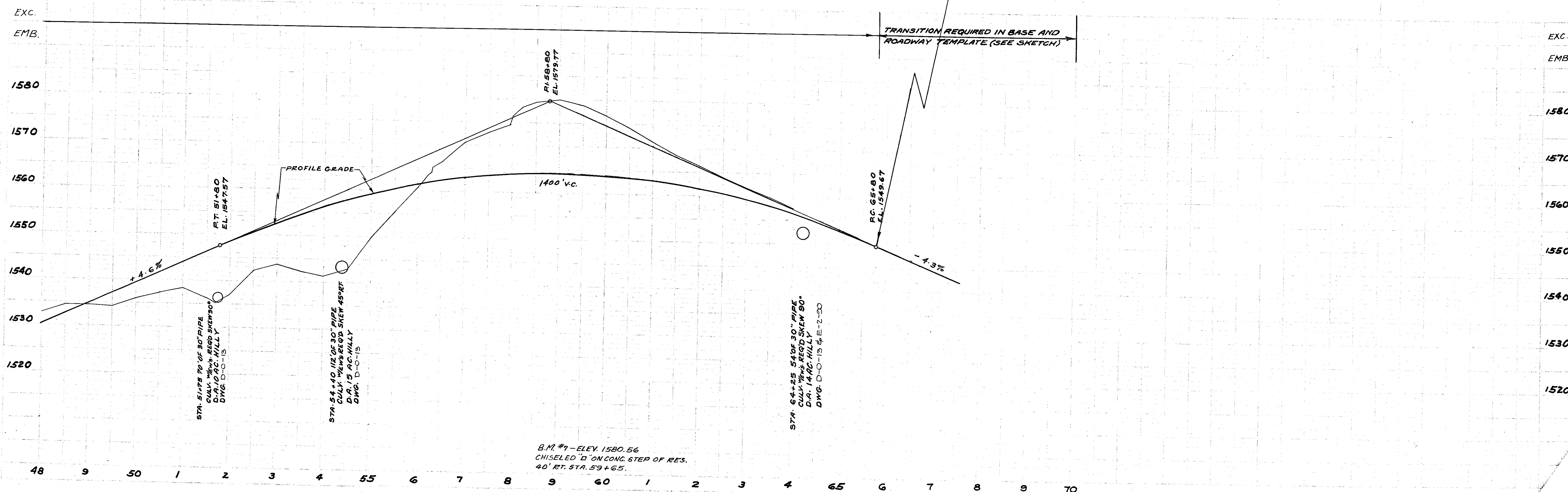
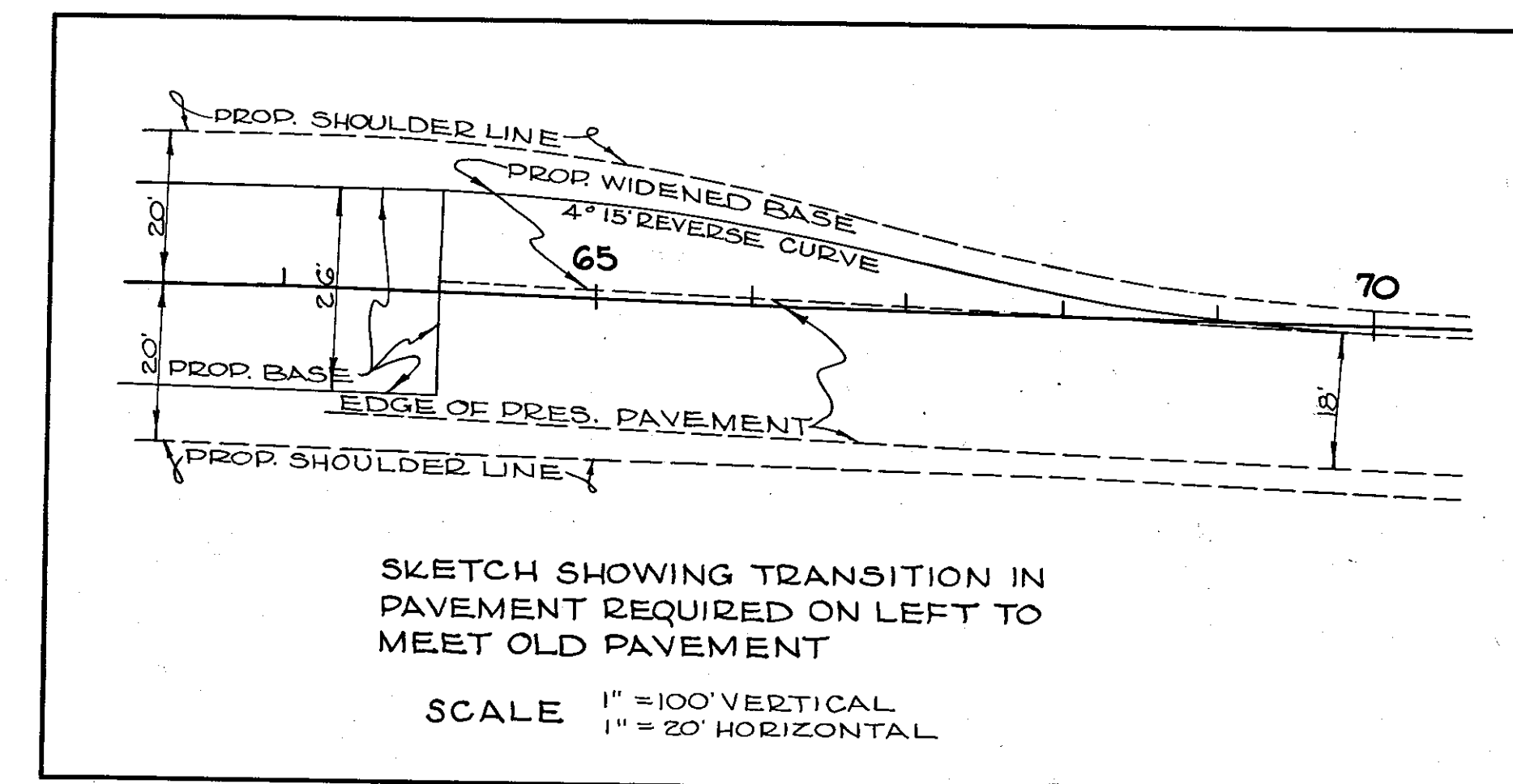
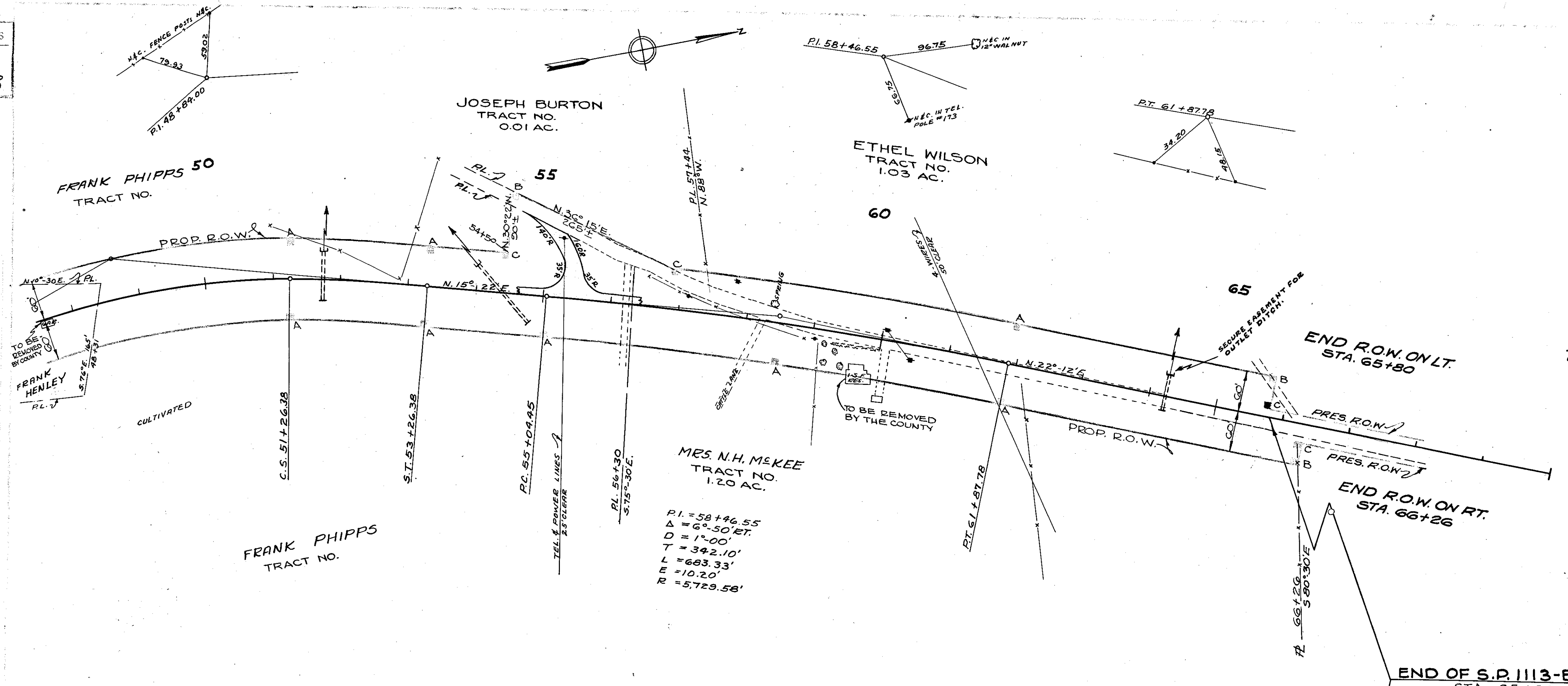
ESTIMATED BRIDGE QUANTITIES

ITEM NO.	DESCRIPTION	QUANTITY	UNIT
17-2	DRY EXCAVATION (BRIDGES)	10	CU. YD.
17-3	WET EXCAVATION (BRIDGES)	559	CU. YD.
17-4	ROCK EXCAVATION (BRIDGES)	90	CU. YD.
132-1	STRUCTURAL STEEL	5,553	LB.
132-3	STEEL FORGINGS	12,959	LB.
135-4	CLASS "A" CONCRETE	1073.3	CU. YD.
135-12	STEEL BAR REINFORCEMENTS	169,654	LB.
137-3	STEEL PILES (@ 42")	2,400	LIN. FT.
176-1	RUBBLE STONE RIP-RAP (PLAIN)	327	CU. YD.
176-4	SACKED SAND-CEMENT RIP-RAP	327	CU. YD.

① ALTERNATES

NOTE: COST OF JOINT MATERIAL & ROADWAY DRAINS TO BE INCLUDED IN UNIT COST OF CLASS "A" CONCRETE.
THE CONTRACTOR'S ATTENTION IS CALLED TO THE NEW PROVISION ON RUBBING CONCRETE. THE PROVISION ELIMINATES RUBBING EXCEPT IN FEW CASES SPECIFIED.
REQUIRED: 28 ROADWAY DRAINS (8' LONG)





TO BE OMITTED

47+00 1530

1511.99

31+20 1500

CUT OUTLET DITCH
SECURE BASEMENT FOR
OUTLET DITCH

82' OF 36" PIPE CULY. W/WS REQ'D.
SKEW 90° D.A. 26 AC. ROLLING
CLASS "A" CONC. 5.4 CU. YDS.
STEEL BAR REINF. 2.0 LBS.
DWG. A-4-B3

1523.09

27+50 1510

92' OF 18" PIPE CULY. W/WS REQ'D.
SKEW 90° D.A. 18 AC. ROLLING
CLASS "A" CONC. 1.7 CU. YDS.
STEEL BAR REINF. 2.0 LBS.
DWG. D-0-13

1534.90

19+26 1530

58' OF 72" X 4" CM PIPE-ARCH CULY. W/WS REQ'D.
SKEW 90° D.A. 120 AC. ROLLING
DWG. NO. CM-1-4 & CM-1-6

1538.20

INLET E/W DWG. E-2-30

OUTLET E/W DWG. D-0-13

11+00 1530

50' OF 30" PIPE CULY. W/WS REQ'D.
SKEW 90° D.A. 18 AC. ROLLING
CLASS "A" CONC. 3.0 CU. YDS.
STEEL BAR REINF. 2.5 LBS.
DWG. D-0-13 & E-2-30

1539.20

8+50 1540

58' OF 18" PIPE CULY. W/WS REQ'D.
SKEW 90° D.A. 5 AC. ROLLING
CLASS "A" CONC. 1.7 CU. YDS.
STEEL BAR REINF. 2.0 LBS.
DWG. D-0-13

