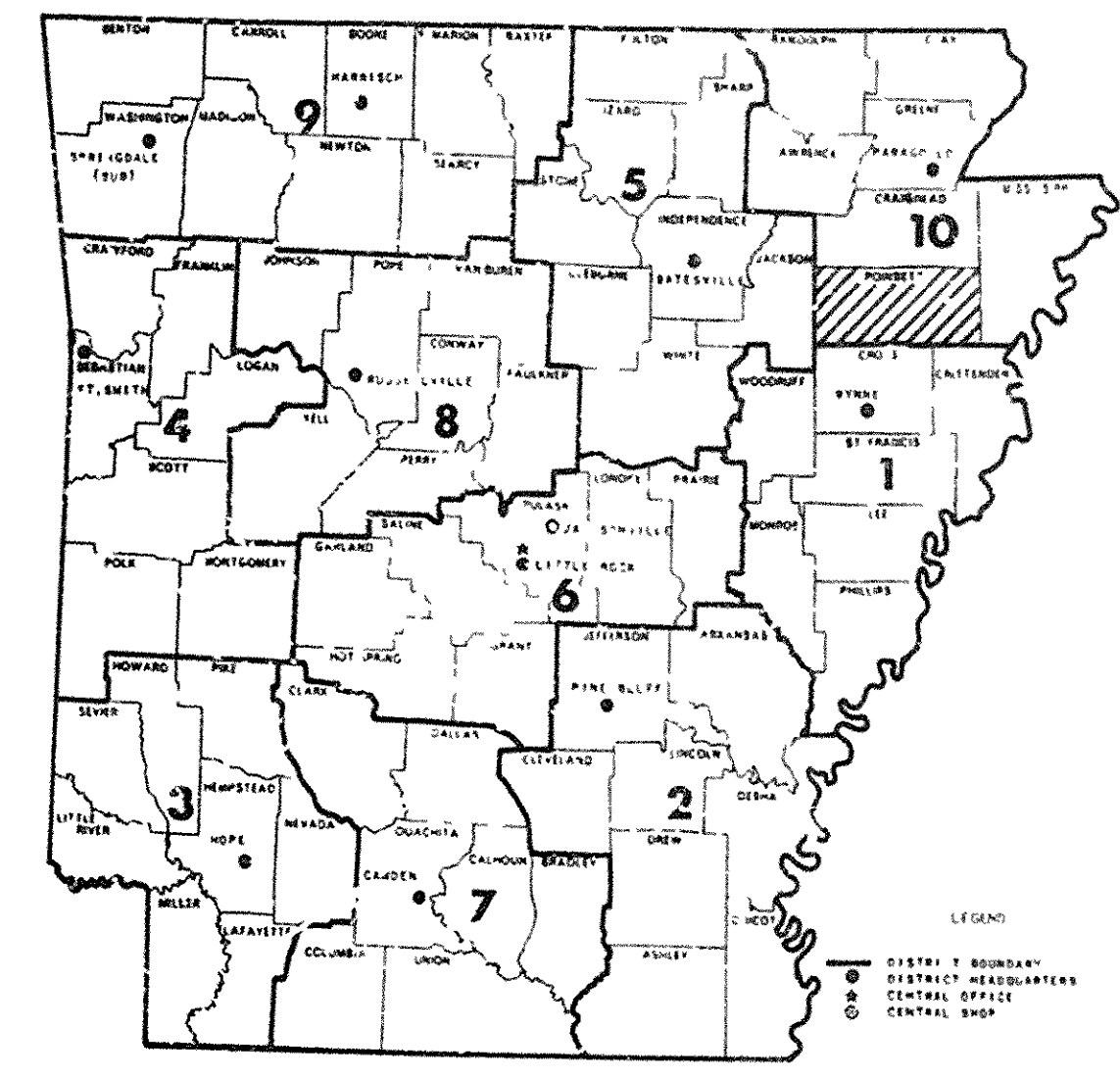
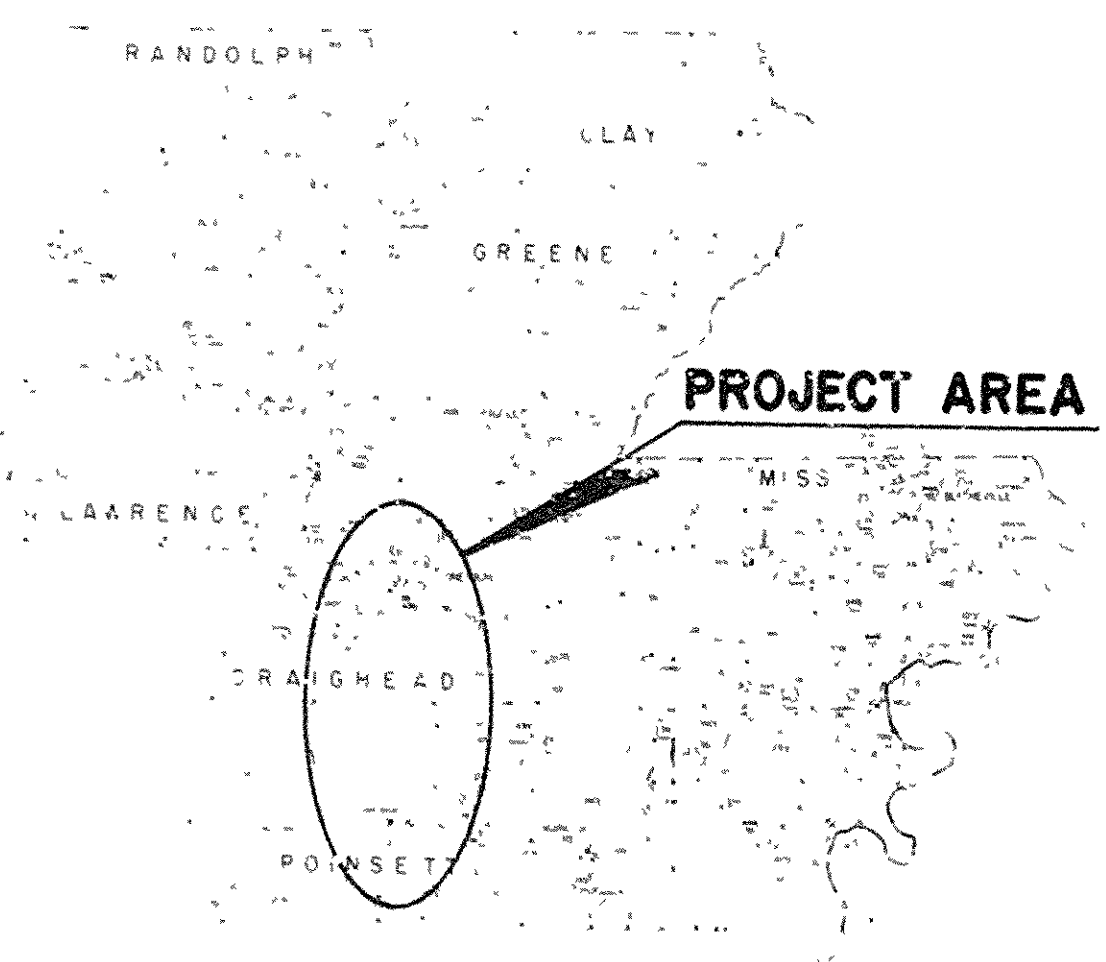


STATE OF ARKANSAS
STATE HIGHWAY COMMISSION

PLAN AND PROFILE OF PROPOSED
STATE HIGHWAY
HARRISBURG - NORTH (RELOCATION)

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJECT NO.	NO. SHEET	TOTAL SHEETS
				6	ARK.			
				JOB NO.		10842	1	122
② TITLE SHEET								



DISTRICT 10

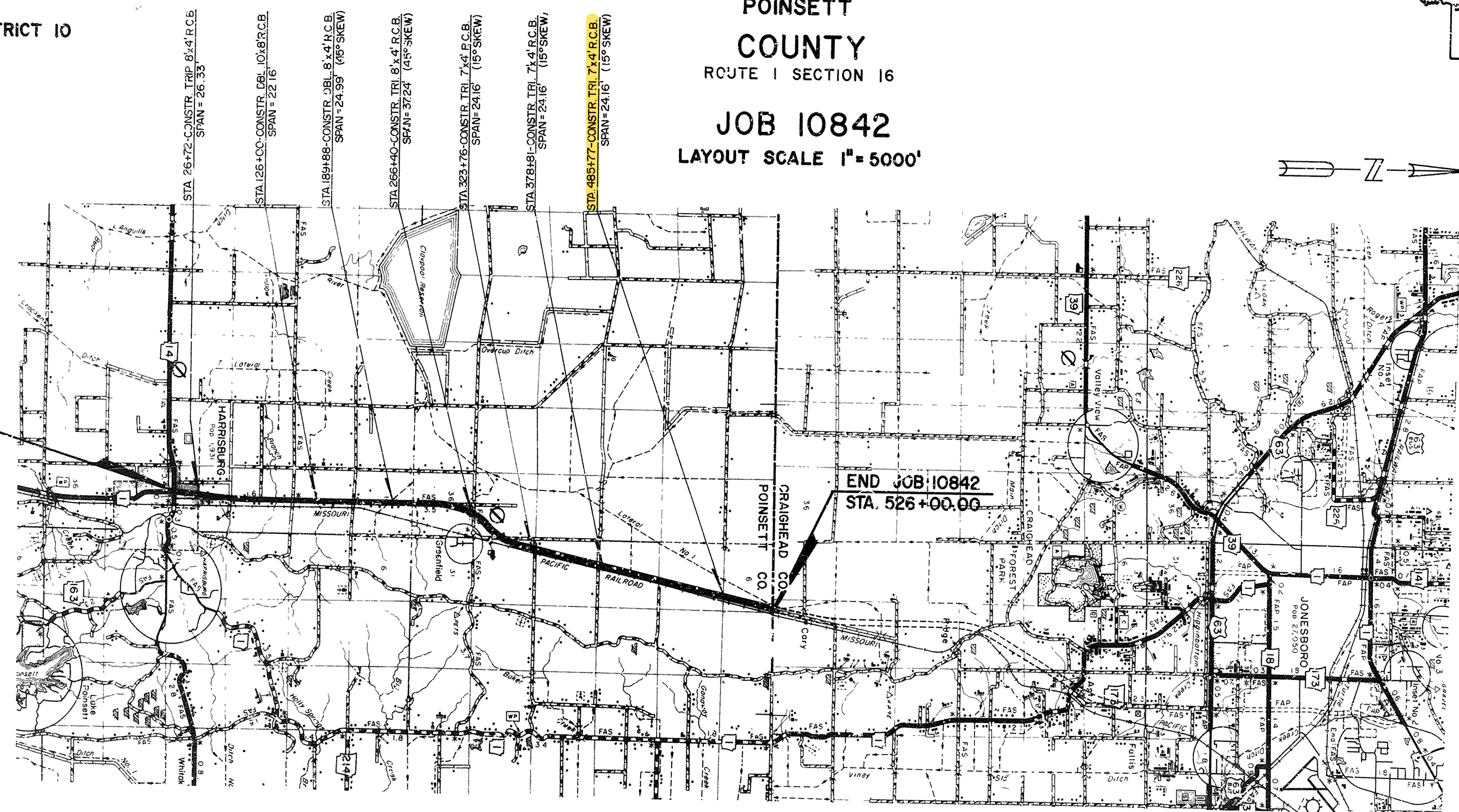
POINSETT
COUNTY
ROUTE 1 SECTION 16

JOB 10842
LAYOUT SCALE 1" = 5000'

POINSETT COUNTY

BEGIN JOB 10842
STA. 5+21.00

END JOB 10842
STA. 526+00.00



GROSS LENGTH OF PROJECT	52,070.00 FEET OR	9.863 MILES
NET " " ROADWAY	51,895.80 " "	9.829 " "
NET " " BRIDGES	183.20 " "	.034 " "
NET " " PROJECTS	52,079.00 " "	9.863 " "

P&S JOB 10822

DESIGN DATA	
DESIGN YEAR 1993	
1973 ADT = 1110	
1993 ADT = 2220	
1993 DHV = 244	
D = 60%	
T = 8.7%	
V = 60 MPH	
SUBMITTED BY P & R 10-17-72	

RECOMMENDED FOR APPROVAL	
RECOMMENDED FOR APPROVAL	BRIDGE DESIGN ENGINEER
RECOMMENDED FOR APPROVAL	ROADWAY DESIGN ENGINEER
RECOMMENDED FOR APPROVAL	DISTRICT ENGINEER
APPROVED	CHIEF ENGINEER
U.S. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION	
RECOMMENDED FOR APPROVAL	
	DATE
APPROVED	
	DATE
DIVISION ENGINEER	
	DATE

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
						JOB NO.	10842	7
								122
② QUANTITY SHEET								

STRUCTURES (CONTINUED)

STATION	STATION	DESCRIPTION	SPAN	HEIGHT	LENGTH	DROP INLET		JCT. BOX	PIPE CULVERTS										FLARED END SECTIONS	SOLID SODDING	CONCRETE CLASS "S"	REINF. STEEL	COMMON EXCAV. FOR STRS.	STANDARD DRAWING NUMBER
						TYPE			R.C. PIPE CULVERT					SIDE DRAINS										
						CLASS III			ALTERNATE															
						C	F		E	12"	18"	24"	30"	36"	18"	24"	24"	30"						
EACH						LIN. FT.										EACH		SQ. YD.	CU. YD.	LBS.	CU. YDS.			
STRUCTURES OVER 20'-0" SPAN																								
126+00		CONSTR. TRIPLE R.C. BOX CULVERT	8	4	86														28.0	163.85	29,469	83	W-X004-1,R-200X-0,1886,1891F	
189+00		CONSTR. DOUBLE R.C. BOX CULVERT	10	8	101														34.0	253.48	29,818	124	W-X004-1,R-200X-0,1886,1891E	
189+00		CONSTR. DOUBLE R.C. BOX CULVERT (45° SKEW)	8	4	121														30.6	160.25	27,032	82	W-X45,W-X454-1,R-245X-01,1886,1891B	
189+00		CONSTR. TRIPLE R.C. BOX CULVERT (15° SKEW) (USE 45° SKEW)	8	4	119														36.1	226.25	41,658	111	W-X45,W-X454-1,R-345X-01,1886,1891C	
189+00		CONSTR. TRIPLE R.C. BOX CULVERT (15° SKEW)	7	4	89														26.2	147.18	26,468	71	W-X15,W-X154-1,R-315X-0,1886,1891D	
189+00		CONSTR. TRIPLE R.C. BOX CULVERT (15° SKEW)	7	4	89														26.2	147.18	26,468	71	W-X15,W-X154-1,R-315X-0,1886,1891B	
189+00		CONSTR. TRIPLE R.C. BOX CULVERT (15° SKEW)	7	4	90														26.2	148.66	26,764	71	W-X15,W-X154-1,R-315X-0,1886,1891B	
TOTAL																			107.3	1246.85	207,677	613		

WATER FOR GRASS - 10 GALS. PER SQ. YD. FOR SEEDING APPLICATION - 48.4 M. GALLON.

NOTE: USE TYPE "K" SODDING ON PIPE INSTALLATIONS.

SEEDING

STATION	STATION	SEEDING				
		ACRE	LIME	MULCH COVER	SECOND SEEDING APPL.	WATER FOR GRASS
		TON	ACRE	ACRE	ACRE	M. GAL.
21+00	46+00	1.44	2.88			
46+00	78+00	3.17	6.34			
78+00	110+00	5.92	11.84			
110+00	142+00	4.27	8.54			
142+00	174+00	4.01	8.02			
174+00	206+00	3.01	6.02			
206+00	238+00	5.04	10.08			
238+00	270+00	5.67	11.34			
270+00	302+00	6.04	12.08			
302+00	334+00	7.01	14.02			
334+00	366+00	6.21	12.42			
366+00	398+00	6.61	13.22			
398+00	430+00	3.17	6.34			
430+00	462+00	4.46	8.92			
462+00	494+00	7.60	15.20			
494+00	526+00	4.89	9.78			
526+00	558+00	1.09	2.18			
* ENTIRE PROJECT		10.00	20.00			
TOTAL		67.07	134.14	87.07	87.07	8428.4

BASIS OF ESTIMATE:

SEEDING - TO BE PERFORMED ON ALL SLOPES

LIME - 2 TONS PER ACRE

MULCH COVER - 1 ACRE PER ACRE OF SEEDING

WATER FOR GRASS - 10 GALS. PER SQ. YD. OR 48.4 M. GAL. PER ACRE SEEDING

WATER FOR GRASS - 10 GALS. PER SQ. YD. OR 48.4 M. GAL. PER ACRE SECOND SEEDING APPLICATION

NOTE:

ESTIMATED QUANTITIES -

TO BE USED AT PLANT SITES, EQUIPMENT STORAGE AREAS, BORROW PITS, AND QUARRIES AS

APPLICABLE TO THE PROJECT

SOD MULCH

STATION	STATION	SOD MULCH	LIME	OVER SEEDING SOD MULCH	MULCH COVER	SECOND SEEDING APPL.	WATER FOR GRASS
		CU. YD.	TONS	ACRE	ACRE	ACRE	M. GAL.
		CU. YD.	TONS	ACRE	ACRE	ACRE	M. GAL.
5+21	10+00	84.41	0.33	0.16			
10+00	16+00	86.59	0.34	0.17			
16+00	22+00	207.75	0.81	0.41			
22+00	28+00	223.88	0.87	0.44			
28+00	31+75	118.51	0.46	0.23			
TOTAL		721.14	2.81	1.41	1.41	1.41	136.5

BASIS OF ESTIMATE:

SOD MULCH - 85 SQ. FT. AREA - 1 CU. YD.

LIME - 2 TONS PER CU. YD. (2000 LB. = 1 TON)

WATER FOR GRASS - 10 GALS. PER SQ. YD. OR 48.4 M. GAL. PER ACRE OVERSEEDING

WATER FOR GRASS - 10 GALS. PER SQ. YD. OR 48.4 M. GAL. PER ACRE SECOND SEEDING APPLICATION

PIPE SIPHON

STATION	DESCRIPTION	18" DIAMETER
		LINE, FT.
268+00	SEE FPC-2A	147
279+50	SEE FPC-2A	138
189+60	SEE FPC-2A	140
TOTAL		425

EARTHWORK

STATION	STATION	COMMON EXCAVATION			BORROW	SPECIAL COMPACTION OF EARTHWORK	OVERLAY
		NORMAL	OUTLETS ETC.	TOTAL			
		CU. YDS.	CU. YDS.	CU. YDS.			
5+21.0	52+72.2	4347	120	4477	6000	10057	
52+72.2	107+23.7	15306	580	15886	1200	16086	70.6
107+23.7	129+18.8	8704	140	8844		8984	11.7
129+18.8	193+16.2	19914	460	20374		19914	14.4
193+16.2	222+31.2	11884	180	12064		11884	9.8
222+31.2	271+21.5	16196	400	16596		16196	13.67
271+21.5	312+09.5	13372	280	13652	9600	23972	16.3
312+09.5	362+73.0	20857	170	21027		20857	17.6
362+73.0	421+78.5	26139	330	26469		26139	21.0
421+78.5	445+30.3	6591	140	6731		6591	5.0
445+30.3	479+64.8	9726	20	9746		9726	7.7
479+64.8	528+60.0	13223	100	13323		13223	10.9
TOTAL		166269	2920	169189	16000	185069	400.6

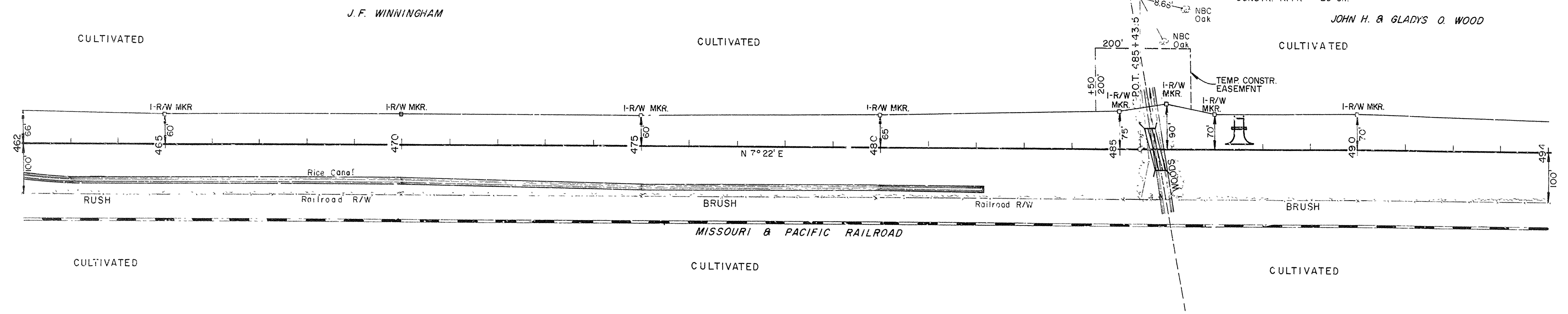
FENCE (TYPE C) LIN FT. VEHICULAR GATES
STA 462+00 TO STA 494+00 ON LEFT = 3200
1

STA 485+77 - CONSTRUCT
TRIP 7'x4'x90' R.C. BOX CULVERT
15° RT. FWD. SKEW
D.A = 815 AC Q=0 = 510 c.f.s.
CONSTR. INLET & OUTLET = 100 CY

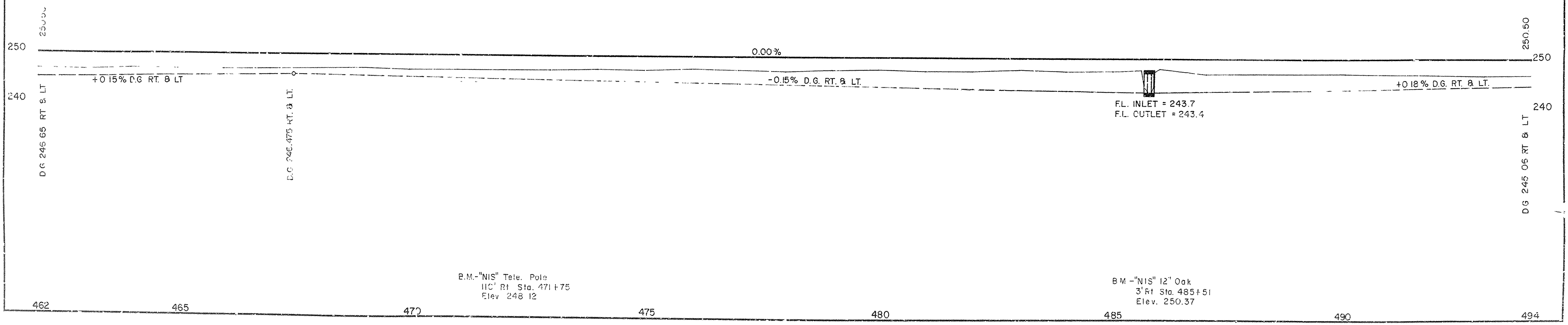
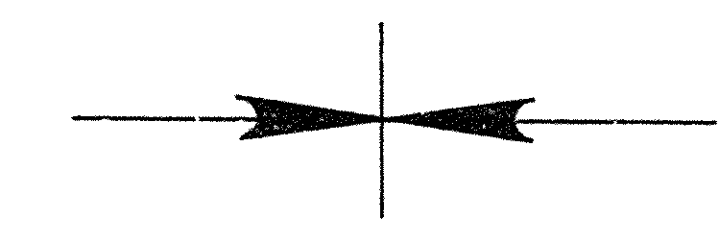
DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	F.D. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
JOB NO. 10842							30	122
② PLAN & PROF. STA 462 - 494								

STA. 487 + 50 - INSTALL
18" x 30' PIPE CULVERT
LT. SIDE DRAIN
CONSTR. AFPR = 20 C.Y.

JOHN H. & GLADYS O. WOOD



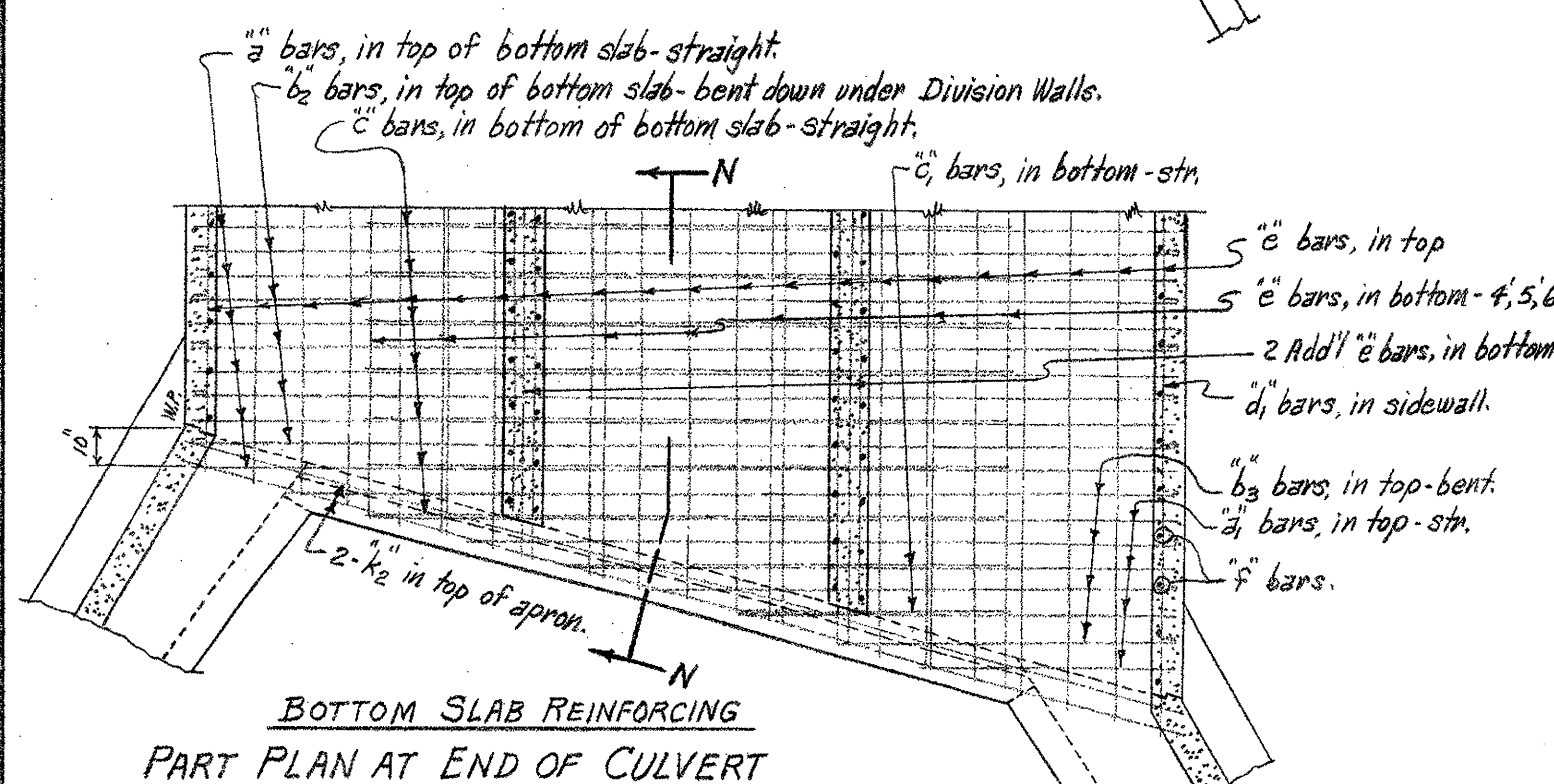
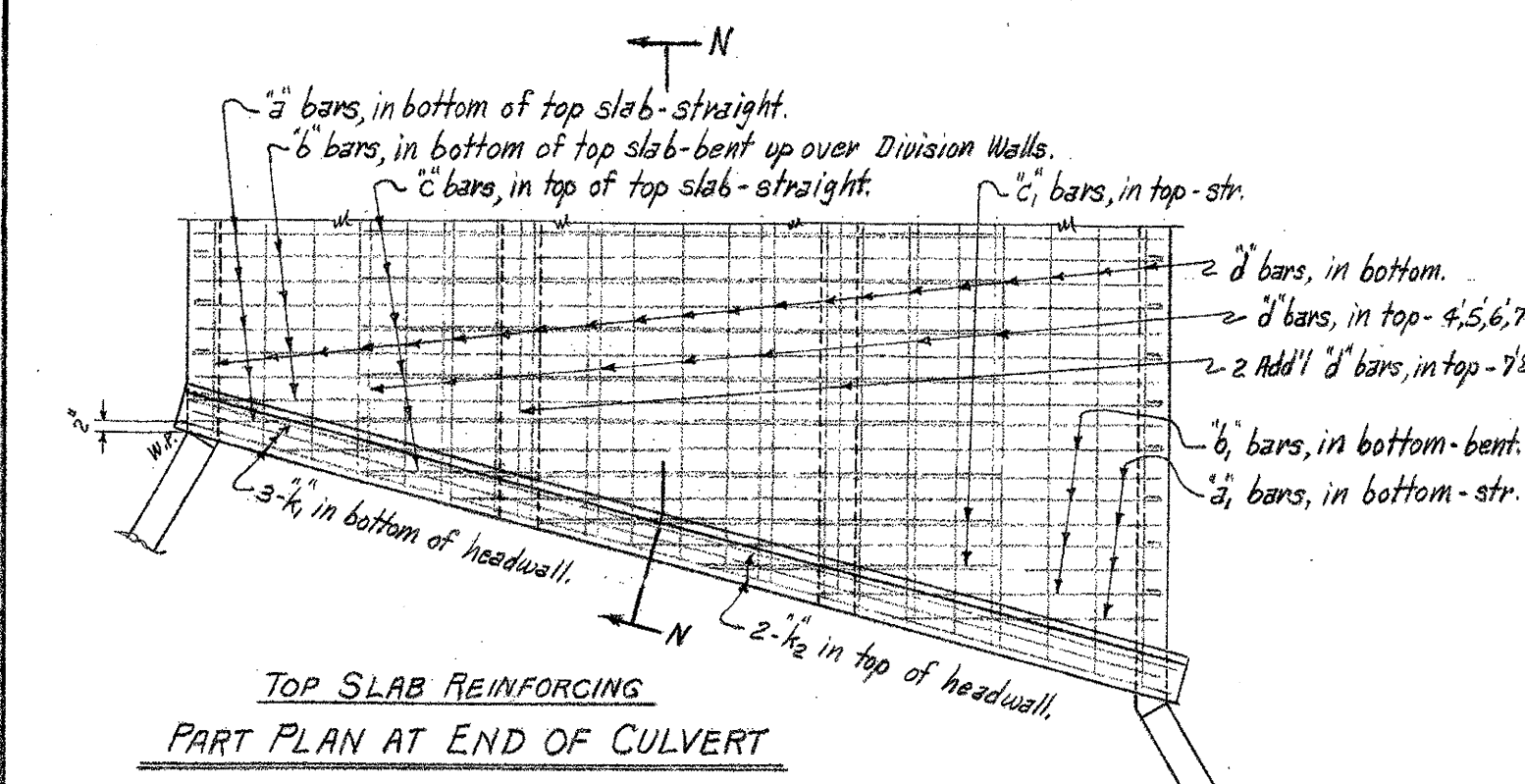
STA. 445+30.3 TO STA 479+64.8
COMMON EXC. (NORMAL) 9,726 C.Y.
COMMON EXC. (OUTLETS, ETC.) 20 C.Y.
EMB. +20% 9,726 C.Y.
SPEC. COMP. OF EARTHWORK 9,726 C.Y.
OVERHAUL 1,537 1/4 MI. YDS.



PLAN
DATE
BY
CHECKED
NOTED
NO.

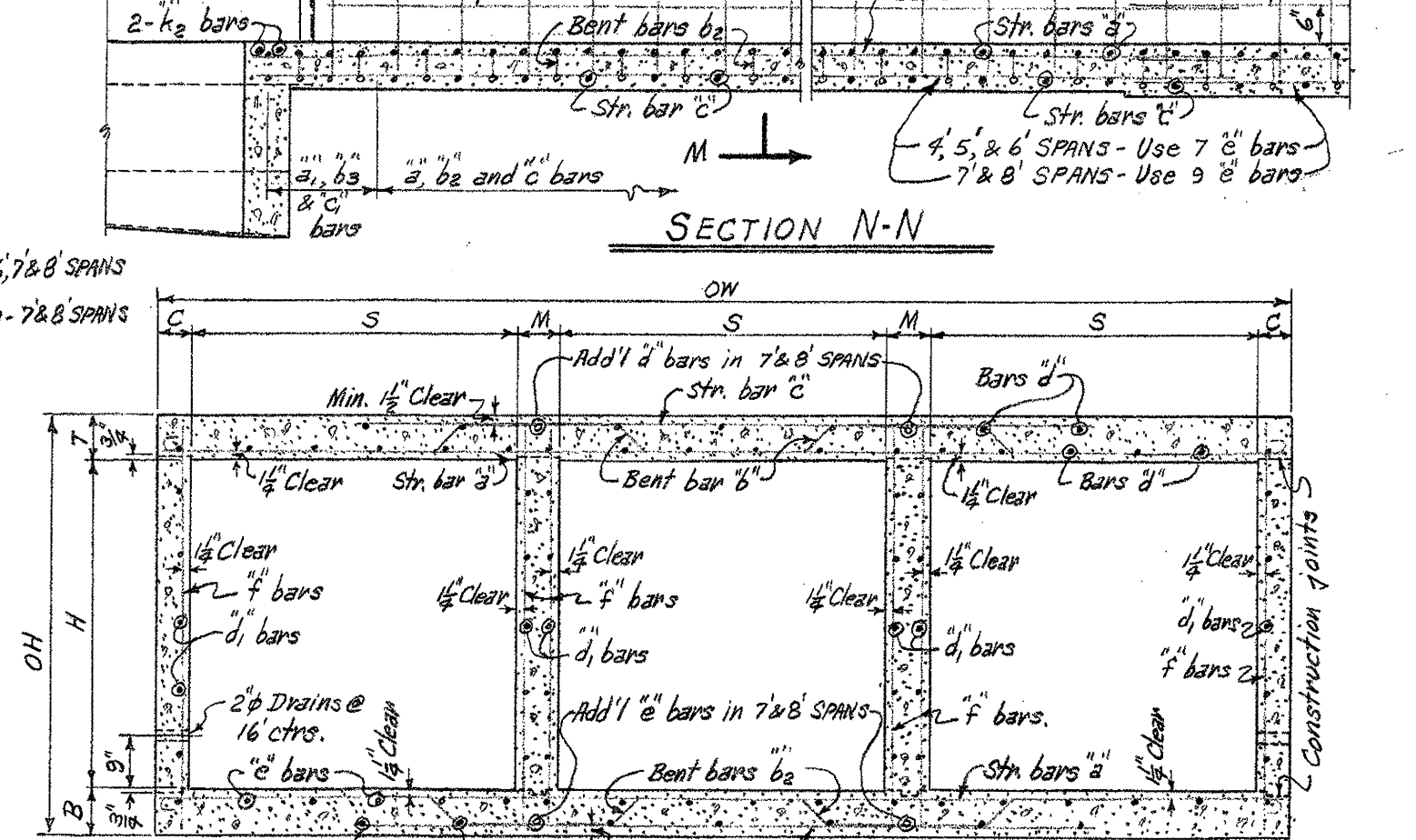
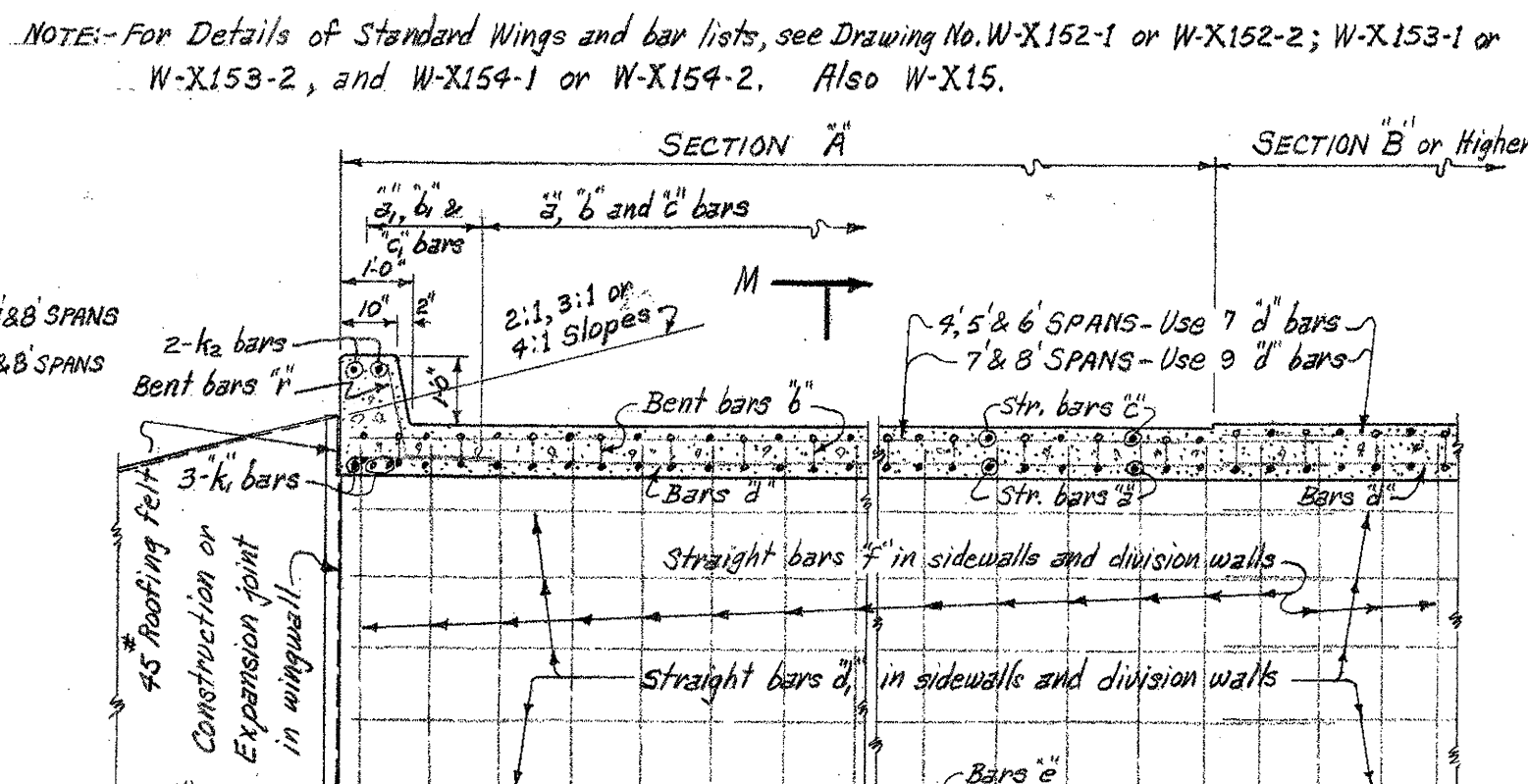
PROFILE
DATE
BY
CHECKED
NOTED
NO.

FED. ROAD No.	STATE	FED. AID PROJECT	FISCAL YEAR	SHEET No.	TOTAL SHEETS
6	ARK.				
JOB No.					



Note: The 'a', 'b', and 'c' bars vary in length. They should be extended 1'-0" into SECTION B.

SPAN	SIZE	SPACING	NO. REQD	LENGTH	X	Y	Z
4'	#4	12"	15	2'-4"	1'-2"		
5'	#4	12"	18	2'-5"	1'-2"		
6'	#4	12"	21	2'-6"	1'-3"		
7'	#4	12"	25	2'-8"	1'-4"		
8'	#4	12"	27	2'-9"	1'-5"		

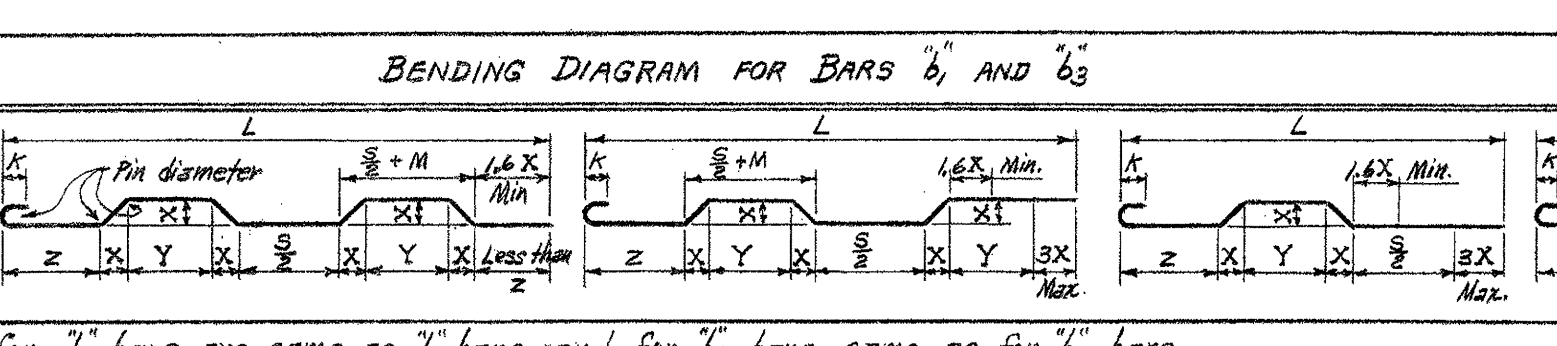
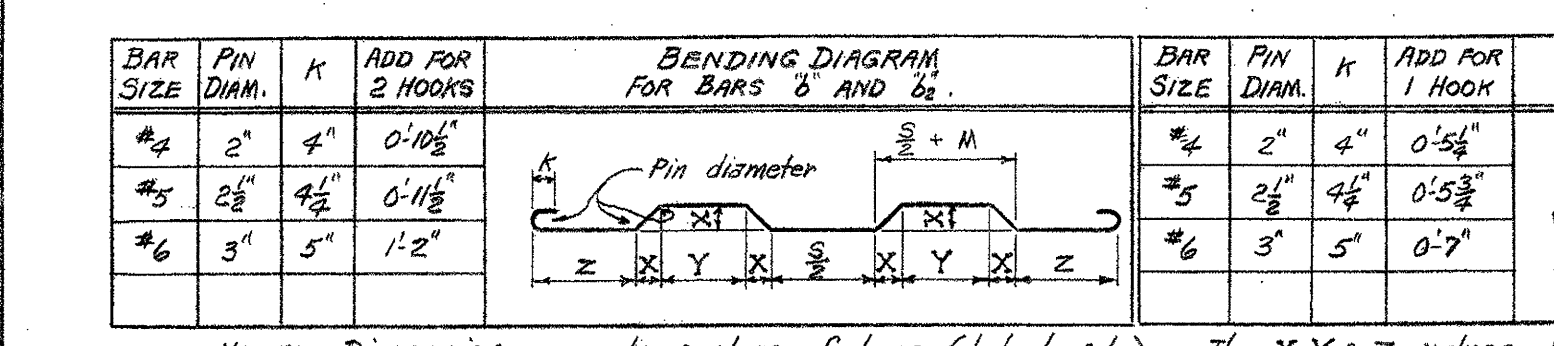


TYPICAL SECTION M-M

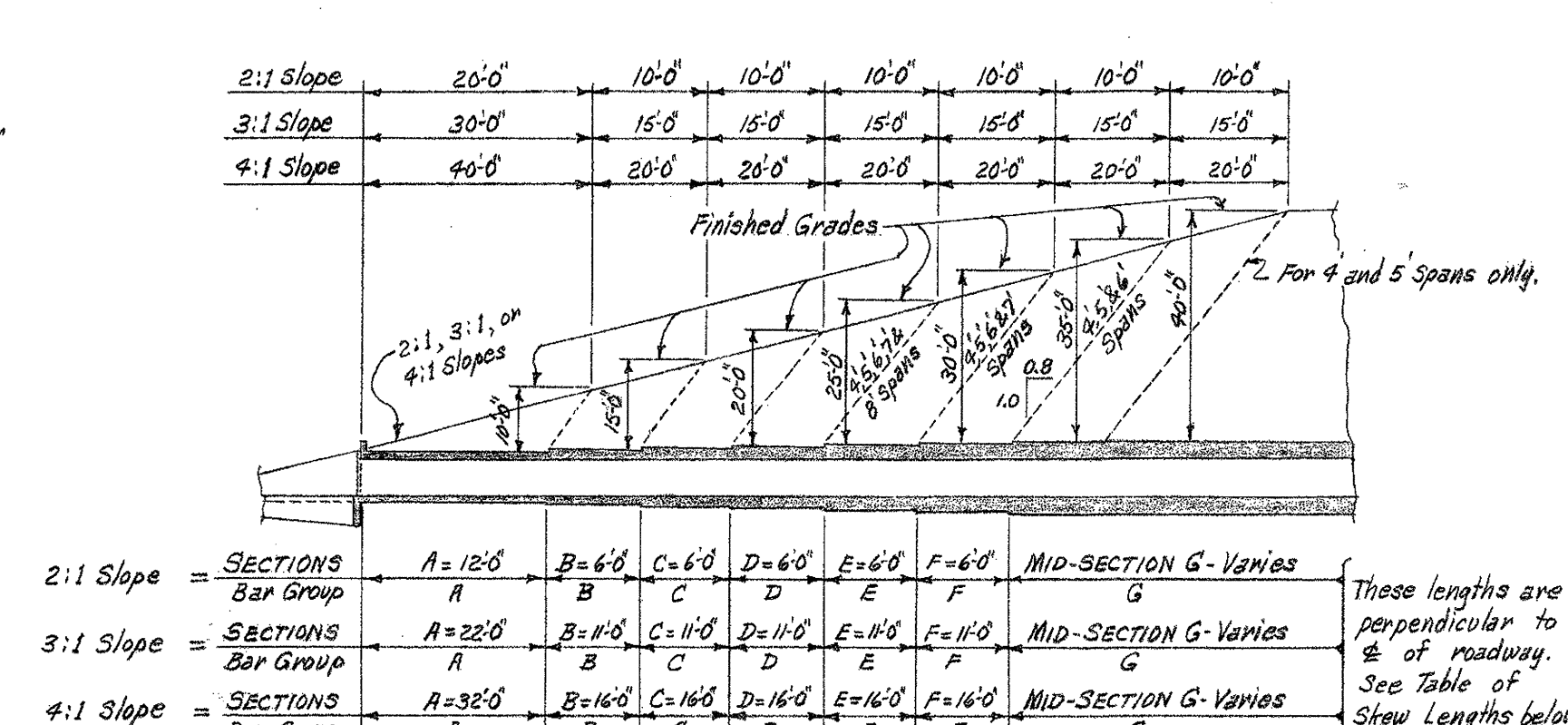
BAR LIST FOR SECTION A ON 15° SKEW - ONE END ONLY.

SECTION & BAR GROUP	LENGTH OF SECTION	DEPTH OF COVER	a bars		b bars		c bars		d bars		e bars		f bars		g bars		h bars	
			SIZE	SPACING	SIZE	SPACING	SIZE	SPACING	SIZE	SPACING	SIZE	SPACING	SIZE	SPACING	SIZE	SPACING	SIZE	SPACING
SECTION A	12'-5"	10'-0"	2'	12"	15	2'-4"	1'-2"											
			3'	12"	18	2'-5"	1'-2"											
			4'	12"	21	2'-6"	1'-3"											
			5'	12"	25	2'-8"	1'-4"											
			6'	12"	27	2'-9"	1'-5"											
			7'	12"	30	2'-10"	1'-6"											
			8'	12"	33	2'-11"	1'-7"											
			9'	12"	36	2'-12"	1'-8"											
			10'	12"	39	2'-13"	1'-9"											
			11'	12"	42	2'-14"	1'-10"											

SECTION & BAR GROUP	LENGTH OF SECTION	DEPTH OF COVER	a bars		b bars		c bars		d bars		e bars		f bars		g bars		h bars	
			SIZE	SPACING	SIZE	SPACING	SIZE	SPACING	SIZE	SPACING	SIZE	SPACING	SIZE	SPACING	SIZE	SPACING	SIZE	SPACING
SECTION B	12'-5"	10'-0"	2'	12"	15	2'-4"	1'-2"											
			3'	12"	18	2'-5"	1'-2"											
			4'	12"	21	2'-6"	1'-3"											
			5'	12"	25	2'-8"	1'-4"											
			6'	12"	27	2'-9"	1'-5"											
			7'	12"	30	2'-10"	1'-6"											
			8'	12"	33	2'-11"	1'-7"											
			9'	12"	36	2'-12"	1'-8"											
			10'	12"	39	2'-13"	1'-9"											
			11'	12"	42	2'-14"	1'-10"											



NOTE: Dimensions are to centers of bars. (b, b2, b3). The X, Y, & Z values for 'b' bars are same as 'b' bars, and for 'b3' bars same as for 'b2' bars.



LENGTH OF SECTIONS ON 15° SKEW

SLOPE	2:1	3:1	4:1
SECTIONS	A, B, C, D, E, F	A, B, C, D, E, F	A, B, C, D, E, F
LENGTHS	12'-5"	6'-2"	22'-3"

NOTE: For Details and Bar Lists for SECTIONS B thru G, see Barrel Drawing Nos. R-300X-X1, R-300X-X2, or R-300X-X3.

DEPTHS OF COVER	SECTIONS & BAR GROUPS FOR END SECTIONS AND MID-SECTION						DEPTHS OF COVER	SECTIONS & BAR GROUPS FOR END SECTIONS AND MID-SECTION					
	A	B	C	D	E	F		A	B	C	D	E	F
5'-0" to 9'-5"	A						5'-0" to 9'-5"	A					
10'-0" to 14'-5"	A						10'-0" to 14'-5"	A					
15'-0" to 19'-5"	A	B					15'-0" to 19'-5"	A	B				
20'-0" to 24'-5"	A	B	C				20'-0" to 24'-5"	A	B	C			
25'-0" to 29'-5"	A	B	C	D			25'-0" to 29'-5"	A	B	C	D		
30'-0" to 34'-5"	A	B	C	D	E		30'-0" to 34'-5"	A	B	C	D	E	
35'-0" to 40'-0"	A	B	C	D	E	F	35'-0" to 40'-0"	A	B	C	D	E	F

SECTIONS AND BAR GROUPS TO BE USED FOR VARIOUS DEPTHS OF COVER

NOTE: For Details and Bar Lists for SECTIONS B thru G, see Barrel Drawing Nos. R-300X-X1, R-300X-X2, or R-300X-X3.

FED. ROAD No.		STATE	FED. AID PROJECT	FISCAL YEAR	SHEET No.	TOTAL SHEETS
6		ARK.				
JOB No.						

MAX. DESIGN DEPTH OF COVER	BARREL DIMENSIONS											QUANTITIES - ONE SECTION A						
	CLEAR SPANS		CLEAR HEIGHT	SOFT OPENING	OVERALL WIDTH	THICKNESS OF TOP SLAB	THICKNESS OF SIDEWALLS	THICKNESS OF DIVISION WALLS	THICKNESS OF BOTTOM SLAB	OVERALL HEIGHT	ROADWAY LENGTH	LENGTH OF HEADWALL	CLASS S CONCRETE		REINFORCING STEEL			
													BARREL ONLY		BARREL, APRON AND HEADWALL			
	D	S	H	A	OW	T	C	M	B	OH	RL	K	CuYd.	CuYd.	CuYd.	Lb.	Lb.	Lb.
3			2'	24	14'-4"	6'	6"	8'	6'	3'-0"	14'-10"	15'-4 1/2"	8.74	16.03	23.32	1969	2503	3553
			3'	36	14'-4"		6"	8'		4'-0"	"	"	9.81	17.99	26.17	1578	2693	3926
			4'	48	14'-4"		6"	8'		5'-0"	"	"	10.89	19.97	29.05	1686	2883	4100