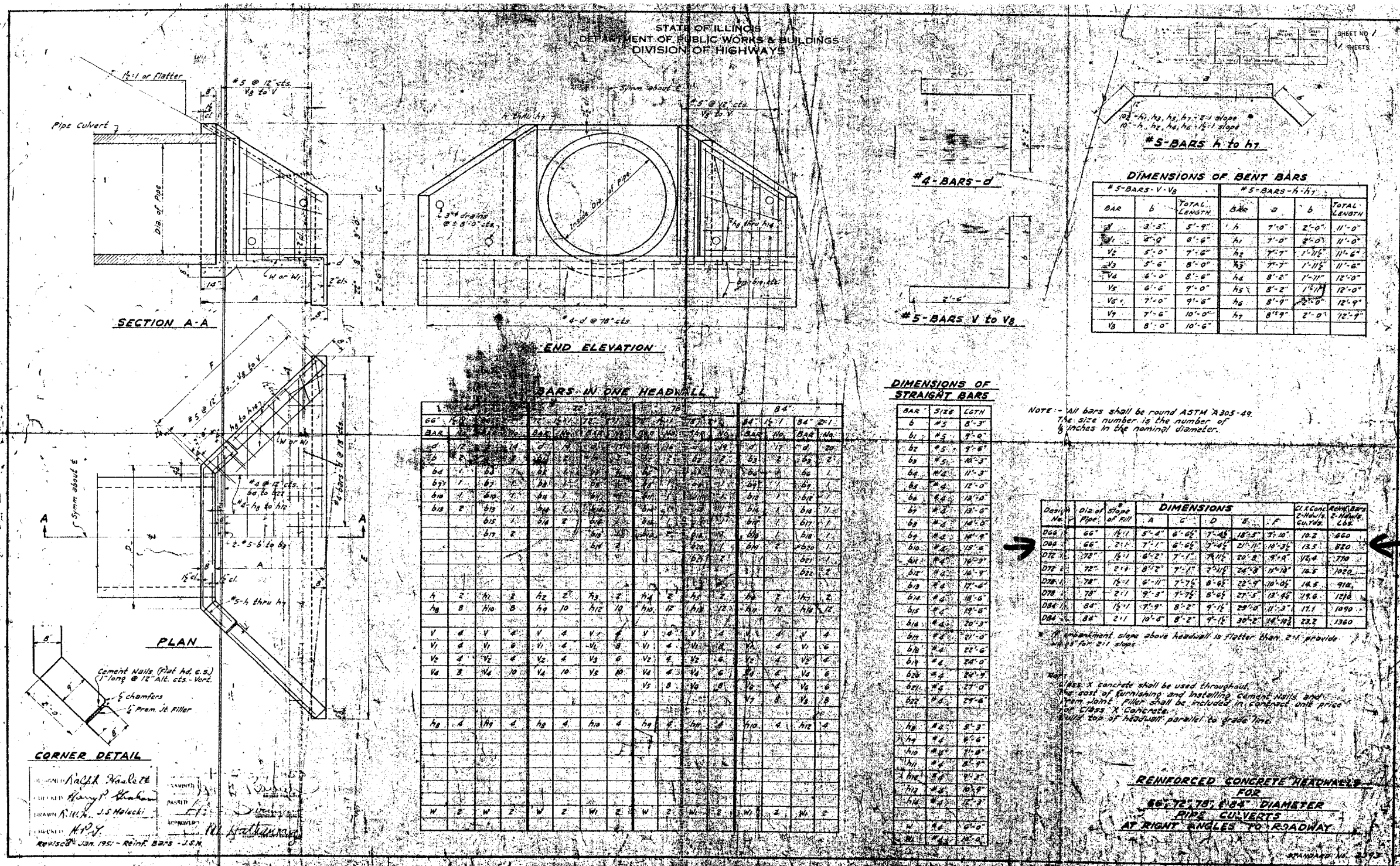


STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	DATE	SHEET NO.
1545	*	DUPAGE	97	66
FED. ROAD DIST. NO.		ILLINOIS	FED. AID P. OBJECT.	
00-00115-00-BR		CONTRACT NO. 83961		



**DIMENSIONS OF BENT BARS**

#5-BARS-V-V8		#5-BARS-H-H7	
BAR	TOTAL LENGTH	BAR	TOTAL LENGTH
V1	3'-3"	H1	7'-0"
V2	5'-0"	H2	7'-7"
V3	5'-6"	H3	7'-7"
V4	6'-0"	H4	8'-2"
V5	6'-6"	H5	8'-2"
V6	7'-0"	H6	8'-9"
V7	7'-6"	H7	8'-9"
V8	8'-0"		

**BARS IN ONE HEADWALL**

BAR	SIZE	LGTH	BAR	SIZE	LGTH
b1	#5	9'-0"	b19	#4	24'-0"
b2	#5	9'-6"	b20	#4	24'-0"
b3	#5	10'-3"	b21	#4	24'-0"
b4	#4	11'-3"	b22	#4	24'-0"
b5	#4	12'-0"	b23	#4	24'-0"
b6	#4	13'-0"	b24	#4	24'-0"
b7	#4	14'-0"	b25	#4	24'-0"
b8	#4	15'-0"	b26	#4	24'-0"
b9	#4	16'-0"	b27	#4	24'-0"
b10	#4	17'-0"	b28	#4	24'-0"
b11	#4	18'-0"	b29	#4	24'-0"
b12	#4	19'-0"	b30	#4	24'-0"
b13	#4	20'-0"	b31	#4	24'-0"
b14	#4	21'-0"	b32	#4	24'-0"
b15	#4	22'-0"	b33	#4	24'-0"
b16	#4	23'-0"	b34	#4	24'-0"
b17	#4	24'-0"	b35	#4	24'-0"
b18	#4	25'-0"	b36	#4	24'-0"
b37	#4	26'-0"	b38	#4	24'-0"
b39	#4	27'-0"	b39	#4	24'-0"
b40	#4	28'-0"	b40	#4	24'-0"
b41	#4	29'-0"	b41	#4	24'-0"
b42	#4	30'-0"	b42	#4	24'-0"
b43	#4	31'-0"	b43	#4	24'-0"
b44	#4	32'-0"	b44	#4	24'-0"
b45	#4	33'-0"	b45	#4	24'-0"
b46	#4	34'-0"	b46	#4	24'-0"
b47	#4	35'-0"	b47	#4	24'-0"
b48	#4	36'-0"	b48	#4	24'-0"
b49	#4	37'-0"	b49	#4	24'-0"
b50	#4	38'-0"	b50	#4	24'-0"
b51	#4	39'-0"	b51	#4	24'-0"
b52	#4	40'-0"	b52	#4	24'-0"
b53	#4	41'-0"	b53	#4	24'-0"
b54	#4	42'-0"	b54	#4	24'-0"
b55	#4	43'-0"	b55	#4	24'-0"
b56	#4	44'-0"	b56	#4	24'-0"
b57	#4	45'-0"	b57	#4	24'-0"
b58	#4	46'-0"	b58	#4	24'-0"
b59	#4	47'-0"	b59	#4	24'-0"
b60	#4	48'-0"	b60	#4	24'-0"
b61	#4	49'-0"	b61	#4	24'-0"
b62	#4	50'-0"	b62	#4	24'-0"
b63	#4	51'-0"	b63	#4	24'-0"
b64	#4	52'-0"	b64	#4	24'-0"
b65	#4	53'-0"	b65	#4	24'-0"
b66	#4	54'-0"	b66	#4	24'-0"
b67	#4	55'-0"	b67	#4	24'-0"
b68	#4	56'-0"	b68	#4	24'-0"
b69	#4	57'-0"	b69	#4	24'-0"
b70	#4	58'-0"	b70	#4	24'-0"
b71	#4	59'-0"	b71	#4	24'-0"
b72	#4	60'-0"	b72	#4	24'-0"
b73	#4	61'-0"	b73	#4	24'-0"
b74	#4	62'-0"	b74	#4	24'-0"
b75	#4	63'-0"	b75	#4	24'-0"
b76	#4	64'-0"	b76	#4	24'-0"
b77	#4	65'-0"	b77	#4	24'-0"
b78	#4	66'-0"	b78	#4	24'-0"
b79	#4	67'-0"	b79	#4	24'-0"
b80	#4	68'-0"	b80	#4	24'-0"
b81	#4	69'-0"	b81	#4	24'-0"
b82	#4	70'-0"	b82	#4	24'-0"
b83	#4	71'-0"	b83	#4	24'-0"
b84	#4	72'-0"	b84	#4	24'-0"
b85	#4	73'-0"	b85	#4	24'-0"
b86	#4	74'-0"	b86	#4	24'-0"
b87	#4	75'-0"	b87	#4	24'-0"
b88	#4	76'-0"	b88	#4	24'-0"
b89	#4	77'-0"	b89	#4	24'-0"
b90	#4	78'-0"	b90	#4	24'-0"
b91	#4	79'-0"	b91	#4	24'-0"
b92	#4	80'-0"	b92	#4	24'-0"
b93	#4	81'-0"	b93	#4	24'-0"
b94	#4	82'-0"	b94	#4	24'-0"
b95	#4	83'-0"	b95	#4	24'-0"
b96	#4	84'-0"	b96	#4	24'-0"
b97	#4	85'-0"	b97	#4	24'-0"
b98	#4	86'-0"	b98	#4	24'-0"
b99	#4	87'-0"	b99	#4	24'-0"
b100	#4	88'-0"	b100	#4	24'-0"

**DIMENSIONS OF STRAIGHT BARS**

BAR	SIZE	LGTH
b1	#5	9'-0"
b2	#5	9'-6"
b3	#5	10'-3"
b4	#4	11'-3"
b5	#4	12'-0"
b6	#4	13'-0"
b7	#4	14'-0"
b8	#4	15'-0"
b9	#4	16'-0"
b10	#4	17'-0"
b11	#4	18'-0"
b12	#4	19'-0"
b13	#4	20'-0"
b14	#4	21'-0"
b15	#4	22'-0"
b16	#4	23'-0"
b17	#4	24'-0"
b18	#4	25'-0"
b19	#4	26'-0"
b20	#4	27'-0"
b21	#4	28'-0"
b22	#4	29'-0"
b23	#4	30'-0"
b24	#4	31'-0"
b25	#4	32'-0"
b26	#4	33'-0"
b27	#4	34'-0"
b28	#4	35'-0"
b29	#4	36'-0"
b30	#4	37'-0"
b31	#4	38'-0"
b32	#4	39'-0"
b33	#4	40'-0"
b34	#4	41'-0"
b35	#4	42'-0"
b36	#4	43'-0"
b37	#4	44'-0"
b38	#4	45'-0"
b39	#4	46'-0"
b40	#4	47'-0"
b41	#4	48'-0"
b42	#4	49'-0"
b43	#4	50'-0"
b44	#4	51'-0"
b45	#4	52'-0"
b46	#4	53'-0"
b47	#4	54'-0"
b48	#4	55'-0"
b49	#4	56'-0"
b50	#4	57'-0"
b51	#4	58'-0"
b52	#4	59'-0"
b53	#4	60'-0"
b54	#4	61'-0"
b55	#4	62'-0"
b56	#4	63'-0"
b57	#4	64'-0"
b58	#4	65'-0"
b59	#4	66'-0"
b60	#4	67'-0"
b61	#4	68'-0"
b62	#4	69'-0"
b63	#4	70'-0"
b64	#4	71'-0"
b65	#4	72'-0"
b66	#4	73'-0"
b67	#4	74'-0"
b68	#4	75'-0"
b69	#4	76'-0"
b70	#4	77'-0"
b71	#4	78'-0"
b72	#4	79'-0"
b73	#4	80'-0"
b74	#4	81'-0"
b75	#4	82'-0"
b76	#4	83'-0"
b77	#4	84'-0"
b78	#4	85'-0"
b79	#4	86'-0"
b80	#4	87'-0"
b81	#4	88'-0"
b82	#4	89'-0"
b83	#4	90'-0"
b84	#4	91'-0"
b85	#4	92'-0"
b86	#4	93'-0"
b87	#4	94'-0"
b88	#4	95'-0"
b89	#4	96'-0"
b90	#4	97'-0"
b91	#4	98'-0"
b92	#4	99'-0"
b93	#4	100'-0"

NOTE: All bars shall be round ASTM A305-49. The size number is the number of bunches in the nominal diameter.

**DIMENSIONS**

Design No.	Dia. of Pipe	Slope	A	C	D	E	F	CLX Conc. Cu/Yds.	Reinf. Bars Cu/Yds.
D56	66"	1:1	5'-4"	8'-6"	7'-4"	18'-5"	7'-10"	10.2	660
D59	66"	2:1	7'-1"	6'-6"	7'-4"	21'-11"	18'-3"	13.5	880
D72	72"	1:1	6'-2"	7'-7"	7'-11"	20'-8"	8'-8"	16.4	770
D77	72"	2:1	8'-2"	7'-1"	7'-11"	24'-8"	11'-10"	16.5	1020
D78-1	78"	1:1	6'-11"	7'-7"	8'-6"	22'-9"	10'-0"	14.5	910
D78	78"	2:1	9'-3"	7'-7"	8'-6"	27'-5"	13'-6"	19.6	1210
D84-1	84"	1:1	7'-9"	8'-2"	9'-12"	28'-0"	11'-3"	17.1	1090
D84-2	84"	2:1	10'-6"	8'-2"	9'-12"	30'-2"	14'-10"	23.2	1360

\* If embankment slope above headwall is flatter than 2:1 provide support for 2:1 slope.

NOTE: Class X concrete shall be used throughout. The cost of furnishing and installing cement nails and form joint filler shall be included in contract unit price for Class X Concrete. Build top of headwall parallel to grade line.

**REINFORCED CONCRETE HEADWALLS FOR 66", 72", 78", 84" DIAMETER PIPE CULVERTS AT RIGHT ANGLES TO ROADWAY**

Cement Nails (Flat hd. c.s.) 1" long @ 12" alt. cts. - Vert. & chamfers 1/2" diam. jt. filler

**CORNER DETAIL**

DESIGNED: Ralph Kaelert  
CHECKED: Harry P. Kaban  
DRAWN: R. W. J. S. Molecki  
REVISION: Jan. 1951 - Reinf. Bars - J.S.M.

FOR INFORMATION ONLY

**NOTE:**  
ELEVATIONS SHOWN ON EXISTING PLANS ARE ON A DIFFERENT VERTICAL DATUM THAN CONTRACT PLANS.

TYLIN INTERNATIONAL

DESIGNED	-	SNB
CHECKED	-	
DRAWN	-	SNB
CHECKED	-	

EXISTING CONCRETE HEADWALL

BAILEY ROAD OVER THE WEST BRANCH OF THE DUPAGE RIVER  
FAU 1545  
SECTION 00-00115-00-BR STA. 2+99.15  
DUPAGE COUNTY  
S.N. 022-3028