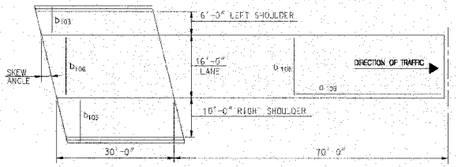
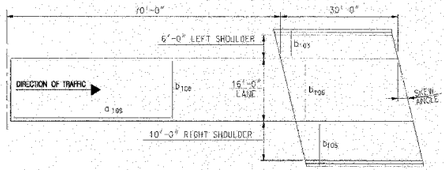
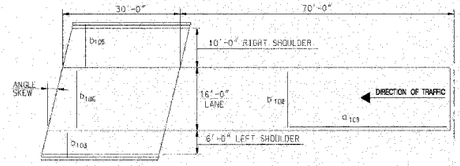
FAI RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	•	COOK	870	760
STA.		TO STA.		
FED ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	



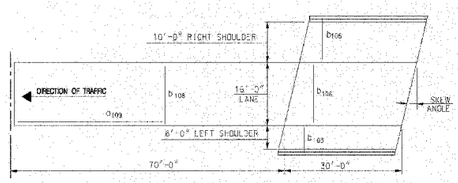
APPROACH SLAB PLAN, AHEAD RIGHT SKEW, LEAVING BRIDGE



APPROACH SLAB PLAN, AHEAD RIGHT SKEW, ENTERING BRIDGE



APPROACH SLAB PLAN, AHEAD LEFT SKEW, ENTERING BRIDGE



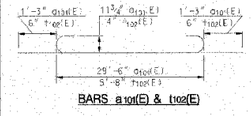
APPROACH SLAB PLAN, AHEAD LEFT SKEW, LEAVING BRIDGE

SCHEDULE OF REINFORCING BAR VARIABLE BILLINGS

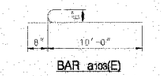
BAR	0° SKEW			5° SKEW			10° SKEW			15° SKEW			20° SKEW			25° SKEW			30° SKEW			35° SKEW			40° SKEW			45° SKEW			50° SKEW			55° SKEW			60° SKEW		
	M	N	P	M	N	P	M	N	P	M	N	P	M	N	P	M	N	P	M	N	P	M	N	P	M	N	P	M	N	P	M	N	P	M	N	P	M	N	P
a101(E)	28	2	–	28	2	–	28	2	–	28	2	–	28	2	–	28	2	–	28	2	–	28	3	–	28	3	–	28	3	–	28	3	–	28	3	–	28	3	–
b101(E)	40	1	–	40	1	–	40	1	–	40	1	–	40	1	–	40	1	–	40	2	–	40	2	–	40	2	–	40	2	–	40	2	–	40	2	–	40	2	–
b102(E)	9	1	–	9	1	–	9	1	–	9	1	–	9	1	–	9	1	–	9	1	–	9	1	–	9	1	–	9	1	–	9	1	–	9	1	–	9	1	–
b103(E)	–	–	0	–	–	0	–	–	0	–	–	1	–	–	1	–	–	–	–	–	1	–	–	1	–	–	2	–	–	2	–	–	2	–	–	3	–	–	3
t101(E)	33	–	18	33	–	12	33	–	18	33	–	18	34	–	18	34	–	18	34	–	18	35	–	18	37	–	18	39	–	18	42	–	18	46	–	18	52	–	18	59	–	18
t102(E)	33	–	18	33	–	12	33	–	18	33	–	18	34	–	18	34	–	18	34	–	18	35	–	18	37	–	18	39	–	18	42	–	18	46	–	18	52	–	18	59	–	18
t103(E)	2	–	–	3	–	–	3	–	–	4	–	–	4	–	–	5	–	–	5	–	–	6	–	–	7	–	–	8	–	–	9	–	–	0	–	–	0	–	–	0	–	–
t104(E)	0	–	–	0	–	–	0	–	–	0	–	–	0	–	–	0	–	–	0	–	–	C	–	–	0	–	–	0	–	–	0	–	–	0	–	–	11	–	–	13	–	–
w101(E)	12	1	–	12	1	–	12	1	–	12	1	–	12	1	–	12	1	–	12	1	–	12	2	–	12	2	–	12	2	–	12	2	–	12	2	–	12	2	–	12	2	–

REINFORCING BAR SCHEDULE FOR APPROACH SLABS

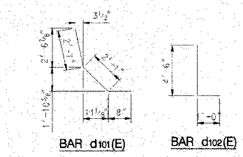
BAR	SIZE	SHAPE	0° SKEW		5° SKEW		10° SKEW		15° SKEW		20° SKEW		25° SKEW		30° SKEW		35° SKEW		40° SKEW		45° SKEW		50° SKEW		55° SKEW		60° SKEW	
			NO.	LENGTH	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH
a101(E)	9		35	32'-0"	35	32'-0"	35	32'-0"	35	32'-0"	35	32'-0"	35	32'-0"	35	32'-0"	35	32'-0"	35	32'-0"	35	32'-0"	35	32'-0"	35	32'-0"	35	32'-0"
a102(E)	9		35	25'-6"	35	25'-6"	35	25'-6"	35	25'-6"	35	25'-6"	35	25'-6"	35	25'-6"	35	25'-5"	35	25'-6"	35	25'-6"	35	25'-6"	35	25'-6"	35	25'-6"
a103(E)	6		19	10'-8"	19	10'-8"	19	10'-8"	19	10'-8"	19	10'-8"	19	9'-8"	19	10'-8"	19	10'-8"	19	10'-8"	19	10'-8"	19	10'-8"	19	10'-8"	19	10'-8"
a104(E)	4		60	29'-6"	60	29'-6"	60	29'-6"	60	29'-6"	60	29'-6"	60	29'-6"	60	29'-6"	60	29'-5"	60	29'-6"	60	29'-6"	60	29'-6"	60	29'-6"	60	29'-6"
a105(E)	4		56	35'-8"	56	36'-2"	56	36'-11"	56	37'-7"	56	38'-5"	56	39'-0"	56	40'-0"	84	27'-10"	84	28'-7"	84	29'-5"	84	30'-5"	84	31'-3"	84	32'-2"
b101(E)	5		40	34'-10"	40	34'-11"	40	35'-4"	40	36'-0"	40	37'-0"	40	38'-0"	80	21'-0"	80	22'-1"	80	23'-7"	80	25'-6"	80	27'-11"	80	31'-3"	80	35'-5"
b102(E)	5		9	15'-8"	9	15'-8"	9	15'-10"	9	16'-2"	9	16'-8"	9	17'-3"	9	18'-1"	9	19'-1"	9	20'-3"	9	22'-1"	9	24'-4"	9	27'-3"	9	31'-4"
b103(E)	4		9	7'-3"	9	7'-3"	9	7'-3"	9	7'-3"	9	7'-3"	9	7'-3"	9	7'-3"	9	7'-3"	9	7'-3"	9	7'-3"	9	7'-3"	9	7'-3"	9	7'-3"
b105(F)	4		9	11'-3"	9	11'-3"	9	11'-3"	9	11'-3"	9	11'-3"	9	11'-3"	9	11'-3"	9	11'-3"	9	11'-3"	9	11'-3"	9	11'-3"	9	11'-3"	9	11'-3"
b106(E)	4		9	15'-8"	9	15'-8"	9	15'-8"	9	15'-8"	9	15'-8"	9	16'-8"	9	15'-8"	9	15'-8"	9	15'-8"	9	15'-8"	9	15'-8"	9	15'-8"	9	15'-8"
b108(E)	4		19	15'-8"	19	15'-8"	20	15'-8"	20	15'-8"	20	15'-8"	20	15'-8"	20	15'-8"	21	15'-8"	21	15'-8"	21	15'-8"	21	15'-8"	22	15'-8"	22	15'-8"
b109(E)	5		0	–	3	15'-8"	3	15'-10"	3	16'-0"	3	16'-6"	3	17'-3"	3	18'-1"	3	19'-1"	3	20'-3"	3	22'-1"	3	24'-4"	3	27'-3"	3	31'-4"
c101(E)	5		0	–	2	6'-10"	2	6'-11"	2	6'-0"	2	6'-5"	2	6'-5"	2	6'-8"	2	7'-1"	2	7'-7"	2	8'-3"	2	9'-1"	2	10'-2"	2	11'-8"
b113(E)	5		0	–	2	9'-10"	2	10'-0"	2	10'-2"	2	10'-6"	2	10'-10"	2	11'-4"	2	12'-0"	2	12'-10"	2	13'-11"	2	15'-3"	2	17'-1"	2	19'-8"
BRIDGE APPR. SLAB (SQ. YD.)			241.7		242.9		244.2		245.5		246.8		248.3		249.9		251.6		253.6		255.9		258.6		262.0		266.3	
REINF. STL., EPOXY CTD. (LBS.)			11,662		11,772		11,820		11,866		11,908		12,064		12,257		12,427		12,624		12,866		13,146		13,552		14,089	
t101(E)	4		51	5'-8"	51	5'-8"	51	5'-8"	51	5'-8"	52	5'-8"	52	5'-8"	54	5'-8"	55	5'-8"	57	5'-8"	60	5'-8"	64	5'-8"	70	5'-8"	77	5'-8"
t102(E)	4		51	6'-8"	51	6'-8"	51	6'-8"	51	6'-8"	52	6'-8"	52	6'-8"	54	6'-8"	55	6'-8"	57	6'-8"	60	6'-8"	64	6'-8"	70	6'-8"	77	6'-8"
t103(E)	4		8	11'-7"	12	11'-7"	12	11'-7"	16	11'-7"	16	11'-7"	20	11'-7"	24	11'-7"	24	11'-7"	28	11'-7"	32	11'-7"	36	11'-7"	0	–	0	–
t104(E)	4		0	–	0	–	0	–	0	–	0	–	0	–	0	–	0	–	0	–	0	–	0	–	44	19'-9"	52	19'-7"
w101(E)	5		24	35'-10"	24	35'-11"	24	36'-4"	24	37'-1"	24	38'-1"	24	39'-6"	48	21'-7"	48	22'-9"	48	24'-3"	48	26'-2"	48	28'-8"	48	32'-1"	48	36'-8"
w102(E)	5		24	16'-8"	24	16'-8"	24	15'-8"	24	16'-8"	24	16'-8"	24	16'-8"	24	16'-8"	24	16'-8"	24	16'-8"	24	16'-8"	24	16'-8"	24	16'-8"	24	16'-8"
APPR. SLAB GRADE BEAMS CLASS P CONCRETE (C.Y.)			11.8		11.9		11.9		12.1		12.3		12.7		13.1		13.6		14.3		15.1		16.3		17.8		19.9	
REIN. STL., EPOXY CTD. (LBS.)			1,796		1,829		1,840		1,890		1,923		1,959		2,128		2,195		2,318		2,469		2,662		3,176		3,568	



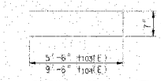
BARS a101(E) & t102(E)



BAR a103(E)



BAR d101(E) BAR d102(E)



BARS t103(E) & t104(E)

REINFORCING BAR SCHEDULE FOR BARRIERS

BAR	NO.	SIZE	LENGTH	SHAPE
b101(E)	64	6	5'-4"	
c101(E)	64	4	5'-6"	
w101(E)	32	4	14'-8"	
e101(E)	8	6	29'-8"	

BILL OF MATERIAL FOR BARRIERS

PAY ITEM NO.	DESCRIPTION	UNIT	QUANTITY
5018	CONCRETE FOR BRIDGES & DRAIN STRUCTURES (CLASS SD)	CU. YD.	8.0
5048	REINFORCING STEEL, EPOXY COATED	LBS.	1,451
524	APPLY CONCRETE SEALANT	SQ. FT.	268

NOTES:

1. WORK THIS SHEET WITH SHEETS 1, 2, AND 3 OF 5.
2. THE REINFORCING BARS SCHEDULES, BILL OF MATERIAL, AND QUANTITIES ARE CALCULATED FOR ONE END OF A BRIDGE.
3. THE AREA OF THE MAIN APPROACH SLAB CALCULATED FOR PAYMENT IS THE PLAN AREA CALCULATED FROM THE WIDTH DIMENSION FROM THE OUTSIDE FACE OF THE BARRIER TO OUTSIDE FACE OF OTHER BARRIER BY THE LENGTH OF 30.00 FEET. THE AREA OF THE TRANSITION APPROACH SLAB CALCULATED FOR PAYMENT IS THE PLAN AREA CALCULATED FROM THE WIDTH DIMENSION FROM LEFT OUTSIDE EDGE OF CONCRETE PAVEMENT TO THE RIGHT OUTSIDE EDGE OF CONCRETE PAVEMENT BY THE MINIMUM LENGTH OF 70.00 FEET PLUS THE ADDITIONAL LENGTH REQUIRED BY THE SKEW ANGLE.

SHEET 5 OF 5

APPROVED Jeff Bailey CHIEF ENGINEER DATE 10/12/2004

CTE ENGINEERS
CONSOER TOWNSEND ENVIRODYNE ENGINEERS, INC.

THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY
2700 OGDEN AVENUE
DOWNERS GROVE, ILLINOIS 60515

REVISIONS NO.	DATE	DESCRIPTION

STANDARD ST 04-14
APPROACH SLAB, RAMP, BAR SCHEDULE FOR 1 LANE

DRAWING NO. G26 OF

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
I-94 EAST BOUND / IL 394 SOUTH BOUND

ISHTA STANDARD ST 04-14
APPROACH SLAB, RAMP, BAR SCHEDULE FOR 1 LANE

HORIZ SCALE:
VERT SCALE:
DATE: JUL 18, 2005
DRAWN BY: LK
CHECKED BY: PY

HNTB

J:\34562\CADD\BID\App_Slabs\CDS\bd191134a_2845.dgn
LKalita 08-JUL-2005 15:56