

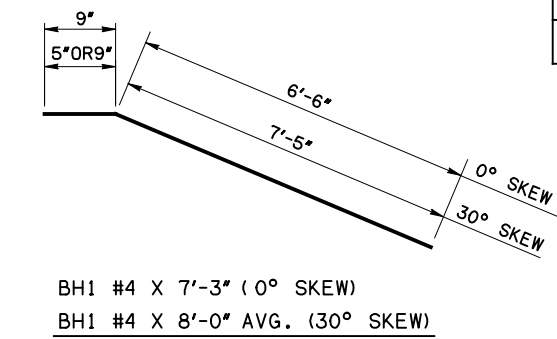
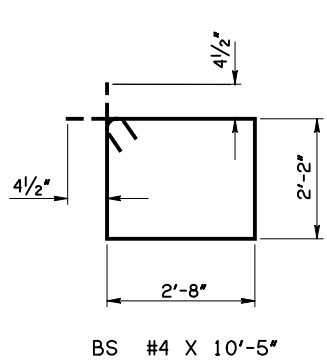
ABUTMENT REINFORCING AND QUANTITY SCHEDULE

SKEW	SLAB WIDTH	B1			B2 ⑥			BS			D1			D2			D3 ⑦			BH1			BH2			BH3			BH4			CLASS A CONCRETE (CUBIC YARDS)		REINFORCING STEEL (POUNDS)		EXCAVATION (CUBIC YARDS) ⑧		BORROW (CUBIC YARDS)	
		SIZE	NO	LENGTH	SIZE	NO	LENGTH	SIZE	NO	LENGTH	SIZE	NO	LENGTH	SIZE	NO	LENGTH	SIZE	NO	LENGTH	SIZE	NO	LENGTH	SIZE	NO	LENGTH	SIZE	NO	LENGTH	SIZE	NO	LENGTH	ON PILES	ON ROCK	ON PILES	ON ROCK	ON PILES	ON ROCK	ON PILES	ON ROCK
0°	28'-0"	#7	9	41'-8"	#4	6	41'-8"	#4	43	10'-5"	#5	8	4'-8"	#5	24	3'-1" ①	#5	86	3'-6"	#4	4	7'-3"	#4	4	2'-10"	#4	4	5'-0"	#4	4	6'-7"	15.9	14.4	1720	1580	20	10	25	20
	33'-7 1/2"	#7	9	47'-3"	#4	6	47'-3"	#4	48	10'-5"	#5	8	4'-8"	#5	24	3'-1" ①	#5	96	3'-6"	#4	4	7'-3"	#4	4	2'-10"	#4	4	5'-0"	#4	4	6'-7"	17.9	16.1	1920	1760	25	10	30	25
	35'-0"	#7	9	48'-8"	#4	6	48'-8"	#4	50	10'-5"	#5	8	4'-8"	#5	24	3'-1" ①	#5	100	3'-6"	#4	4	7'-3"	#4	4	2'-10"	#4	4	5'-0"	#4	4	6'-7"	18.4	16.6	1980	1810	25	10	35	25
30°	28'-0"	#7	9	47'-7"	#4	6	47'-7"	#4	49	10'-5"	#5	8	4'-8"	#5	28	3'-1" ①	#5	98	3'-6"	#4	4	8'-0" ②	#4	4	3'-0" ③	#4	4	5'-3" ④	#4	4	7'-5" ⑤	18.1	16.3	1960	1790	25	10	30	25
	33'-7 1/2"	#7	9	54'-1"	#4	6	54'-1"	#4	55	10'-5"	#5	8	4'-8"	#5	28	3'-1" ①	#5	110	3'-6"	#4	4	8'-0" ②	#4	4	3'-0" ③	#4	4	5'-3" ④	#4	4	7'-5" ⑤	20.4	18.3	2190	2000	25	15	40	30
	35'-0"	#7	9	55'-8"	#4	6	55'-8"	#4	57	10'-5"	#5	8	4'-8"	#5	28	3'-1" ①	#5	114	3'-6"	#4	4	8'-0" ②	#4	4	3'-0" ③	#4	4	5'-3" ④	#4	4	7'-5" ⑤	20.9	18.8	2260	2060	30	15	40	30

SCHEDULE OF PILE LOADS AND FOUNDATION PRESSURES

SKEW	SLAB WIDTH	SPAN	PILE LOADS AND FOUNDATION PRESSURES		
			FIXED ABUTMENT		
			STEEL PILES (TONS/PILE)	CONC. PILES (TONS/PILE)	ROCK (TONS/S.F.)
0°	28'-0"	20'	21.8	15.5	0.9
		25'	23.7	17.0	0.9
		30'	27.5	19.7	1.1
		35'	29.5	21.1	1.2
		40'	31.3	22.4	1.2
		45'	33.0	23.6	1.3
		50'	34.7	24.8	1.4
	55'	37.4	26.7	1.5	
	35'-0"	20'	24.4	17.5	0.8
		25'	26.7	19.1	0.9
		30'	31.3	22.3	1.1
		35'	33.6	24.0	1.1
		40'	35.8	25.6	1.2
		45'	37.8	27.0	1.3
50'		39.8	28.4	1.4	
30°	28'-0"	20'	22.8	16.3	0.8
		25'	24.8	17.7	0.9
		30'	28.6	20.4	1.0
		35'	30.5	21.8	1.1
		40'	32.4	23.1	1.1
		45'	34.1	24.3	1.2
		50'	35.7	25.5	1.2
	55'	38.5	27.5	1.3	
	35'-0"	20'	25.7	18.3	0.8
		25'	27.9	19.9	0.8
		30'	32.5	23.2	1.0
		35'	34.8	24.9	1.0
		40'	37.0	26.4	1.1
		45'	39.1	27.9	1.2
50'		41.0	29.3	1.2	
0°	33'-7 1/2"	50'	38.0	27.2	1.3
30°	33'-7 1/2"	50'	39.2	28.0	1.2
		55'	43.3	30.9	1.3

- ① AVERAGE LENGTH SHOWN, LENGTH VARIES FROM 2'-0" TO 4'-2"
- ② AVERAGE LENGTH SHOWN, LENGTH VARIES FROM 7'-10" TO 8'-2"
- ③ AVERAGE LENGTH SHOWN, LENGTH VARIES FROM 2'-10" TO 3'-2"
- ④ AVERAGE LENGTH SHOWN, LENGTH VARIES FROM 5'-1" TO 5'-5"
- ⑤ AVERAGE LENGTH SHOWN, LENGTH VARIES FROM 7'-3" TO 7'-7"
- ⑥ OMIT 2 B2 BARS IN CURTAIN WALL IN ABUTMENT ON ROCK.
- ⑦ D3 BARS SHALL BE 2'-6" LONG IN CURTAIN WALL IN ABUTMENT ON ROCK.
- ⑧ WHEN THE ABUTMENT RESTS ON PILES, THIS ITEM SHALL BE PAID FOR AS "SUBSTRUCTURE EXCAVATION COMMON".
WHEN THE ABUTMENT RESTS DIRECTLY ON ROCK, THIS ITEM SHALL BE PAID FOR AS "STRUCTURAL EXCAVATION UNCLASSIFIED"



NOTE: ALL BAR BEND DIMENSIONS ARE OUT TO OUT

ADDITIONAL REINFORCING IN FIXED ABUTMENT

SLAB WIDTH	DOUBLE TEE TYPE	SMOOTH DOWEL			QUANTITY REINF. STEEL (POUNDS)
		SIZE	NO.	LENGTH	
28'-0"	A, B, & C	3/4" Ø	20	2'-0"	60
	D & E	3/4" Ø	19	2'-0"	57
33'-7 1/2"	D & E	3/4" Ø	23	2'-0"	69
35'-0"	A, B & C	3/4" Ø	25	2'-0"	75

ADDITIONAL REINFORCING OVER EACH PILE

NUMBER OF PILES	B3			QUANTITY REINF. STEEL (POUNDS)
	SIZE	NO.	LENGTH	
5	#4	15	2'-8"	27
7	#4	21	2'-8"	37
9	#4	27	2'-8"	48

APPROVED BY BRIDGE ENGINEER: _____ DATE: _____

OKLAHOMA DEPT. OF TRANSPORTATION
COUNTY BRIDGE STANDARD (ENGLISH)
DOUBLE TEE ABUTMENT SCHEDULES
(2'-6" DEEP SEAT)