

MISSOURI DEPARTMENT OF TRANSPORTATION

DIVISION OF CONSTRUCTION

Bridge No. A-375

Sheet 1 of 1

PILE DRIVING DATA

County Cole Route 50 Kind of Hammer MKT DE20 Pile Size 16" Octagonal Constant

Project F-50-3(16) Station 314+18.26 Wt. of Ram 2,000# Pile Type Pre Cast Concrete

Inspector Jim Jenson Rated Energy 16,000 ft.-lb. Formula Used See Remarks Below

DATE	BENT NO.	PILE NO.	LENGTH DRIVEN	LENGTH EXTENS.	LENGTH CUTOFF	PCS. IN USED LENGTH	LENGTH IN PLACE	FORMULA					DESIGN BRG.	REMARKS
								Wt. Of PILE	Energy of Hammer	Batter	PEN "S"	BRG. TONS		
5-3-05	1	1	40	0	2	1	38	8500	12000	0	.025	36.6	33	
	1	2	↓		2		38	↓			.020	38.1	↓	
	1	3	↓		1		39	↓			.021	37.8	↓	
	1	4	↓		1		39	↓			.018	38.7	↓	
	2	5	25		0		25	5200			.047	45.4	38	
	2	6	↓		0		25	↓			.050	44.4	↓	
	2	7	↓		0		25	↓			.049	44.7	↓	
	2	8	↓		0		25	↓			.052	43.9	↓	
5-7-05	2	9	↓		0		25	↓			.050	44.4	↓	
	3	10	↓		2		23	↓			.052	43.9	↓	
	3	11	↓		2		23	↓			.055	43.0	↓	
	3	12	↓		3		22	↓			.047	45.4	↓	
	3	13	↓		5		20	↓			.046	45.7	↓	
	3	14	↓		2		23	↓			.047	45.4	↓	
5-8-05	4	15	40		3		37	8500			.018	38.7	33	
	4	16	↓		4		36	↓			.019	38.4	↓	
	4	17	↓	↓	1	↓	39	↓	↓	↓	.021	37.8	↓	
	4	18	↓	↓	3		37	↓	↓	↓	.023	37.2	↓	
														Formula Used
														$P = \frac{2(0.75E)}{(S + 0.1)} \times \frac{2W^a}{(W + w)}$
							539							