



BAR NO.	DIAMETER D	LAP SPlice LENGTH	ACI STANDARD HOOKS	
		CLASS "C" SpL	90° HOOKS G	180° HOOKS G
#10	60 mm	410 mm	150 mm	125 mm
#13	80 mm	530 mm	200 mm	150 mm
#16	95 mm	655 mm	250 mm	175 mm
#19	115 mm	845 mm	300 mm	200 mm
#22	135 mm	1150 mm	375 mm	250 mm
#25	155 mm	1515 mm	425 mm	275 mm
#29	240 mm	1915 mm	475 mm	375 mm
#32	275 mm	2430 mm	550 mm	425 mm
#36	305 mm	2985 mm	600 mm	475 mm

CLASS "C" TENSION LAP SPLICES ARE BASED ON 1.7 TIMES THE DEVELOPMENT LENGTH (1d), AASHTO 8.32. STANDARD HOOKS ARE BASED ON CRITERIA SET BY THE CONCRETE REINFORCING STEEL INSTITUTE.

GENERAL NOTES

- ALL CONSTRUCTION AND MATERIAL REQUIREMENTS SHALL BE IN ACCORDANCE WITH THE 1999 METRIC STANDARD SPECIFICATIONS.
- ALL CONCRETE EDGES SHALL HAVE A 38 mm CHAMFER UNLESS OTHERWISE SHOWN OR NOTED. ALL CHAMFER STRIPS SHALL BE SIZED LUMBER.
- ALL REINFORCING STEEL SHALL BE GRADE 420 AND HAVE A 50 mm MINIMUM CLEARANCE UNLESS OTHERWISE SHOWN ON THE PLANS.
- REINFORCING STEEL IN BOTTOM SLAB SHALL BE SUPPORTED ON BAR CHAIRS. CHAIRS SHALL BE SUPPORTED ON TIMBER PLANKS OR CLASS C CONCRETE STRIPS SPACED AT 1.2 m CENTERS. THE TOP CHAIR SUPPORTS SHALL BE AT THE ELEVATION OF THE BOTTOM OF THE FOOTING.
- REINFORCING STEEL IN THE TOP SLAB SHALL BE SUPPORTED ON SLAB SPACERS.
- REINFORCING STEEL IN THE WALLS SHALL BE HELD IN PLACE BY METAL CHAIRS. MAXIMUM SPACING OF CHAIRS SHALL BE ON 1.8 m CENTERS.
- COST OF METAL CHAIRS, WOOD PLANKS OR CONCRETE STRIPS SHALL BE INCLUDED ON OTHER ITEMS OF WORK.
- FOR DETAILS OF ONE CELL R.C.B. WINGS AND HEADWALLS, SEE STANDARD RCB1H-1 OR STANDARD RCB2H-1.
- THE QUANTITY FOR REINFORCING STEEL DOES NOT INCLUDE LAP SPLICES OF C1 BARS IN THE LENGTH OF THE BARREL. THE NUMBER OF SPLICES USED IS TO BE DETERMINED BY THE CONTRACTOR. COST OF ADDITIONAL REINFORCING STEEL FOR SPLICES TO BE INCLUDED IN THE BID PRICE FOR REINFORCING STEEL.

BASIS OF PAYMENT

ITEM NO.	ITEM	UNIT
509.06 (B)	CLASS A CONCRETE	CUBIC METER
511.06 (A)	REINFORCING STEEL	KILOGRAM

APPROVED BY ROADWAY ENGINEER		DATE	
OKLAHOMA DEPT. OF TRANSPORTATION ROADWAY STANDARD (METRIC) SINGLE CELL REINFORCED CONCRETE BOX CULVERTS FOR SPANS 900 mm TO 3000 mm AND FILLS 900 mm TO 6000 mm			
1999 SPECIFICATIONS	TYPICAL SECTION	RCB3-1	00M
ALL DIMENSIONS ON THIS SHEET IN MILLIMETERS UNLESS OTHERWISE NOTED.			R-54C