



Chamfer 45° - 4 sides
 1/2" galv-machine bolts with washers.
 Peen bolt ends after tightening.
 Set flush with wood surface both sides.
 1" galv. steel rod-drill 7/16" hole 3/4" from end
 for padlock. 2" plate on opposite end.
 Padlocks by owner.

Concrete footing. Top edge must be
 clean even joint between AC and concrete.
 Broom top of concrete.

3" ID galvanized steel pipe. 2'-6' long
 4" galvanized steel pipe. 2'-10' long
 Extend 4" pipe into washed rock 3" to
 permit drainage of 4" pipe.

Washed rock.

- NOTE:
1. Timber shall be Douglas Fir, dense construction grade, pressure treated. Size to be submitted for each application.
 2. Steel tube shall conform to ASTM A53 or ASTM A7# Grade A.
 3. Nuts, bolts and washers shall conform to ASTM A307.
 4. All steel parts shall be galvanized.
 5. Concrete shall be 3000 PSI.
 6. Removable bollards are required for restricted access roadways such as maintenance easements.

REVISION	APPROVED	DATE	CITY OF COEUR D'ALENE STANDARD DRAWING	APPROVED BY:
			REMOVABLE BOLLARD	<i>Mark Miller</i> CITY ENGINEER, PE 7432 DATE: 4/1/08
			DWG NO. M-35	