Pickett, Kelm & Associates, Inc.
Consulting Structural Engineers

PROJECT LOCATION:
BEE CAVE, TEXAS

PROJECT OWNER:
CCNG DEVELOPMENT

CONTRACTOR:
J.C. EVANS

COMPLETED:
2001

Upstream side

Pond 18 Dam at Spanish Oaks Golf Club

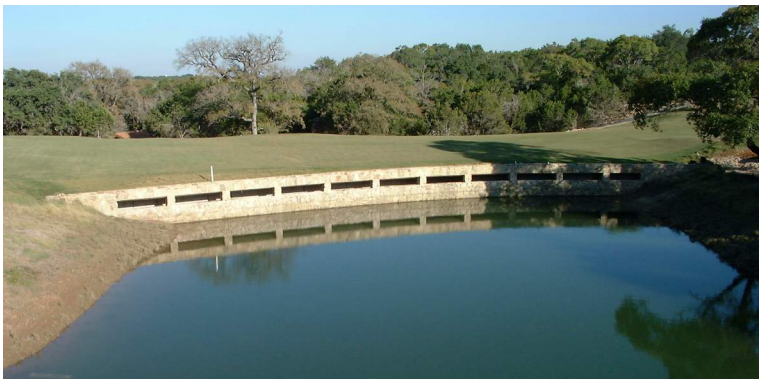
PROJECT DESCRIPTION:

Pickett, Kelm & Associates, Inc. provided structural engineering for this cast-in-place concrete dam and outlet structure at Spanish Oaks Golf Club in Bee Cave, Texas. The project consists of a 140 foot long by 7 foot wide inlet structure at the upstream side connected to a 3-barrel culvert which directs the drainage beneath the 18th fairway and discharges into the existing channel at the downstream side.

A concrete transition section was provided at the upstream side of the culvert. The top slab of the transition section, which is buried beneath 6 feet of fill, consists of a 10-inch thick two-way flat slab supported on perimeter concrete walls and interior concrete columns.

At the downstream side, a 3-barrel concrete box culvert supports 13 feet of fill. Concrete retaining walls, 18 feet in height by 70 feet in length, and an outlet slab with concrete dissipaters were provided. The retaining wall and outlet slab are faced with stone.

Construction photo



An additional box culvert section, extending 30 feet east of the downstream retaining wall, was added to accommodate a future crossing downstream of the 18th fairway.