12' x 12' SINGLE CELL BOX CULVERT DESIGN DETAILS

WEIGHT / FT. = 6,050 LBS.

LOADING, DESIGN METHODS AND MATERIALS
COMPLY WITH ASTM C789 or C850
Standard laying length = 6'-0"
WWF ASTM A185, fy = 65 KSI
Concrete Strength, fc = 5 KSI
Box culvert design and analysis is performed on the BOX CAR computer program.

SECTION VIEW

DIAGONAL REINFORCING
TYPICAL FOUR PLACES

A_{S1} (SIDE WALL OUTSIDE)
A_{S2} (TOP SLAB INSIDE)
A_{S3} (BOTTOM SLAB INSIDE)
A_{S4} (SIDE WALL INSIDE)
A_{S5} (TOP SLAB OUTSIDE)

HAUNCH
12"x12"

INSIDE SURFACE
1/2"

ANNULAR SPACE
3 7/32"

4 1/2"

12 1/2"

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