NOTES

1. Steel bars shall be ASTM-A1018.

2. Steel pipe shall be ASTM-A53.

3. All steel shall be galvanized, Welded and hot-dipped or coated with a
   cold-galvanizing compound.

PLAN VIEW

SECTION A-A

1/4" WALL THICKNESS

3/8" X 3" STEEL BAR

EXTRA STRONG (O.D. = 2.27"

4'-4"

(outside)

14 - 2" STEEL PIPES @ 7" C.C.

8' X 4' STEEL PIPE GRATE

REDRAWN: TJA 7/06
NOTES

PLAN VIEW

SECTION A-A

5/8" X 3" STEEL BAR RING

2" NOMINAL DIAMETER

STEEL PIPE

EXTRA STRONG (O.D. = 2.35"

1. Steel bars shall be ASTM A616.
2. Steel pipe shall be galvanized. Weds.
3. All steel shall be galvanized. Weds.

Scale is not to scale.
NOTES

1. Reinforcing steel shown is for sections.
   Buried not greater than 30°.

2. Standard precast pipe with equal or
greater strength may be substituted; adapt.

3. Pipes must be placed as required.

DETAIL A

DETAIL B

3-1/2"
3-1/4"
3/8"
2-3/8"

DETAIL 1

3"
3/8"
2-1/8"

SECTION

VERTICALS:
#4 @ 6" cc
#5 @ 12" cc

HOOPS:
#4 @ 6" cc
#5 @ 12" cc

R=2'

6"

10' MAX.

DETAIL B

REDRAWN: TJA 7/05

COUNTY, PENNSYLVANIA

ROUND HOPPER SECTION

NRCS