Notes:
- Isometric Bearing and Anchors to be Supplied by UNR
- Longitudinal Bars are to be Continuous
- Placement of Isometric Bearing to be Placed and Coordinated with student during Footing Pour
- Post Tensioning Shall be Coordinated and Placed by UNR and Independent Contractor
- Post Tensining Force Shall be Specified by UNR
- Post Tensining Duct, Anchor, and Recess Shall be Installed Prior to Footing Pour
- PT Bar Shall be Installed Upon Completion of Bent
- Post Tensining Tendon Shall Consist of 1 Grade 150 PT Bar
- Spiral Reinforcement Shall be Welded Onto Itself at all Ends
- Spiral Reinforcement:
  W2.9 (.192 in Wire) @ 1.25 in
  Grade 60 Steel
- PT Duct Shall be 2" Diameter
- PT Bar Shall be 1 3/8" Diameter

Isometric Bearing
Notes:
Post Tensioning Shall be Coordinated and Placed by UNR and Independent Contractor
- Post Tensining Force Shall be Determined by UNR
- Post Tensining Tendon Shall Consist of 1 Grade 150 Bar
- Spiral Reinforcement Shall be Welded Onto Itself at all Ends
- Spiral Reinforcement:
  W2.9 (.192 in Wire) @ 1.25 in
  Grade 60 Steel
- PT Duct Shall be 2" Diameter
- PT Bar Shall be 1 5/8" Diameter
Notes:
- Mechanical Connectors to be Supplied by UNR
- SMA Bars to be Supplied by UNR
- Placement of ECC Concrete to be Coordinated with Student and Surface Systems
- Spiral Reinforcement Shall be Welded Onto Itself at all Ends
- Spiral Reinforcement:
  W2.9 (.192 in Wire) @ 1.25 in Grade 60 Steel

9 - #4 Bars
Spiral Reinforcement
CC = .95 in
Ø12.0 in

9 #4 SMA Bars
Spiral Reinforcement
CC = 0.5 in
Ø12.0 in

Section A-A
Section B-B
Notes:
- Welds are to be made prior to cap cage Placement
- Welds Shall be E80-xx
- Anchor Bars Shall be Weldable A70
- Spiral Reinforcement: W2.9 (.192 in Wire) @ 1.25 in Grade 60 Steel

Weld Details

Spiral Reinforcement
- #4 Bar
- See Weld Details

PT Bent

Spiral Reinforcement
- 9 #4 Bars

ISO and SMA Bent

NEESR - SG 4 Span Bridge
(Test Specimen 2)

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Drawn by: David Hillis  Date: 12-21-2007
University of Nevada, Reno
The diagram consists of the same components as sections A, B, and C. It will be adjusted to accommodate the bar placement, but will include:

- Post Tension Recess
- Axial Ducts - 2" Diameter PVC
- Adjust Ties adjacent to axial ducts
- Adjacent Ties adjacent to axial ducts
- 5 - #4 @ 4.5 in
- 11 - #4 @ 5.25 in
- 5 - #4 @ 4.5 in
- 3.0 in
- 4.5 in
- 3.5 in
- 5.0 in
- 5.5 in
Notes:

Weld shall be full-pen weld.

Bolts shall be grade 8.

A53 Gr. B.

Pipe shall be 3-x-strong.

4.0 in. dia.

7.378 in.

10.0 in.

3.8 in.

12.0 in.

Plate T" and bottom steel top.

Around circumference pipe welded.

Pipe Layers:

17 - 0.104" Grade 36

18 - 0.2" Rubber Layers

Steel Pipe 3.5" OD

Steel Layers 17 - 0.104" Grade 36