PIPE EXTENDER ELEVATION
1½" = 1'-0"

**Notes:**
1. The hole must be aligned to form a straight line from the top of the pipe extender to the bottom of the hole.
2. Pipe must be placed in the hole with its top edge flush with the top of the hole. 
3. Cored hole must be cored to form a straight line from the top of the pipe extender to the bottom of the hole.
4. Tightly wrap fixed side of pipe with 2 layers of 15 lbs building paper. Paper is to remain in place as a bond breaker.
5. Thread pipe and plate: 8 threads per inch per ASME B 1.20.1. Threaded plate for 6"Ø pipe similar, except as noted. 
6. Apply thread locking system after grouting and tightening threaded plate snug against concrete surface, Hinge Seat Side only.
7. Excluding reinforcement not shown.

**Pipe Extender/Shear Key Details (Retrofit)**

- For 6"Ø Pipe Seat Extender:
  - Threading plate for 6" and 8" pipe similar, except as noted.
  - The bearing surface for the Threading Plate must be perpendicular to the hole.
  - The 3" deep holes in plate are to receive a pipe extender between bearings.

- For 8"Ø Pipe Seat Extender:
  - Threading plate for 6" and 8" pipe similar, except as noted.
  - The bearing surface for the Threading Plate must be perpendicular to the hole.
  - The 3" deep holes in plate are to receive a pipe extender between bearings.

**Details (Retrofit):**
- Place Pipe Extender between bearings.
- Only install Plate on Hinge Seat Side.
- 2 Threaded Plates per Pipe Seat Extender.
- The Hole must be aligned to form a straight line from the top of the pipe extender to the bottom of the hole.
- Tightly wrap fixed side of pipe with 2 layers of 15 lbs building paper. Paper is to remain in place as a bond breaker.
- Apply thread locking system after grouting and tightening threaded plate snug against concrete surface, Hinge Seat Side only.
- Excluding reinforcement not shown.

**Hinge Joint**

- Hinge Join
- No GROUT

**Pipe Extender/Shear Key Details (Retrofit):**

- Place Pipe Extender between bearings.
- Only install Plate on Hinge Seat Side.
- 2 Threaded Plates per Pipe Seat Extender.
- The Hole must be aligned to form a straight line from the top of the pipe extender to the bottom of the hole.
- Tightly wrap fixed side of pipe with 2 layers of 15 lbs building paper. Paper is to remain in place as a bond breaker.
- Apply thread locking system after grouting and tightening threaded plate snug against concrete surface, Hinge Seat Side only.
- Excluding reinforcement not shown.

**Threading Plate Details**

- Threading plate for 6" and 8" pipe similar, except as noted.
- The bearing surface for the Threading Plate must be perpendicular to the hole.
- The 3" deep holes in plate are to receive a pipe extender between bearings.

**Notes:**
1. The hole must be aligned to form a straight line from the top of the pipe extender to the bottom of the hole.
2. Pipe must be placed in the hole with its top edge flush with the top of the hole. 
3. Cored hole must be cored to form a straight line from the top of the pipe extender to the bottom of the hole.
4. Tightly wrap fixed side of pipe with 2 layers of 15 lbs building paper. Paper is to remain in place as a bond breaker.
5. Thread pipe and plate: 8 threads per inch per ASME B 1.20.1. Thread pipe 12" on both ends.
6. Apply thread locking system after grouting and tightening threaded plate snug against concrete surface, Hinge Seat Side only.
7. Excluding reinforcement not shown.

**View A-A**

- Hinge Seat Side
- Supported Side

**Section B-B**

1½" = 1'-0"

**Section C-C**

1½" = 1'-0"