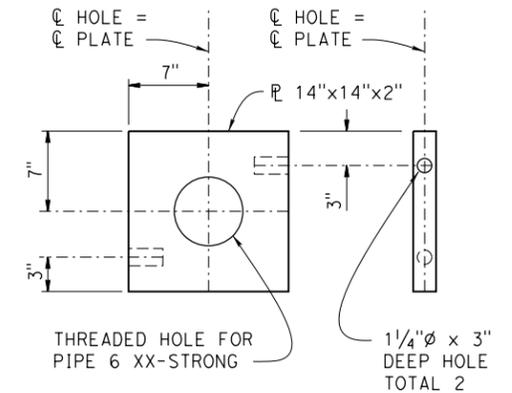
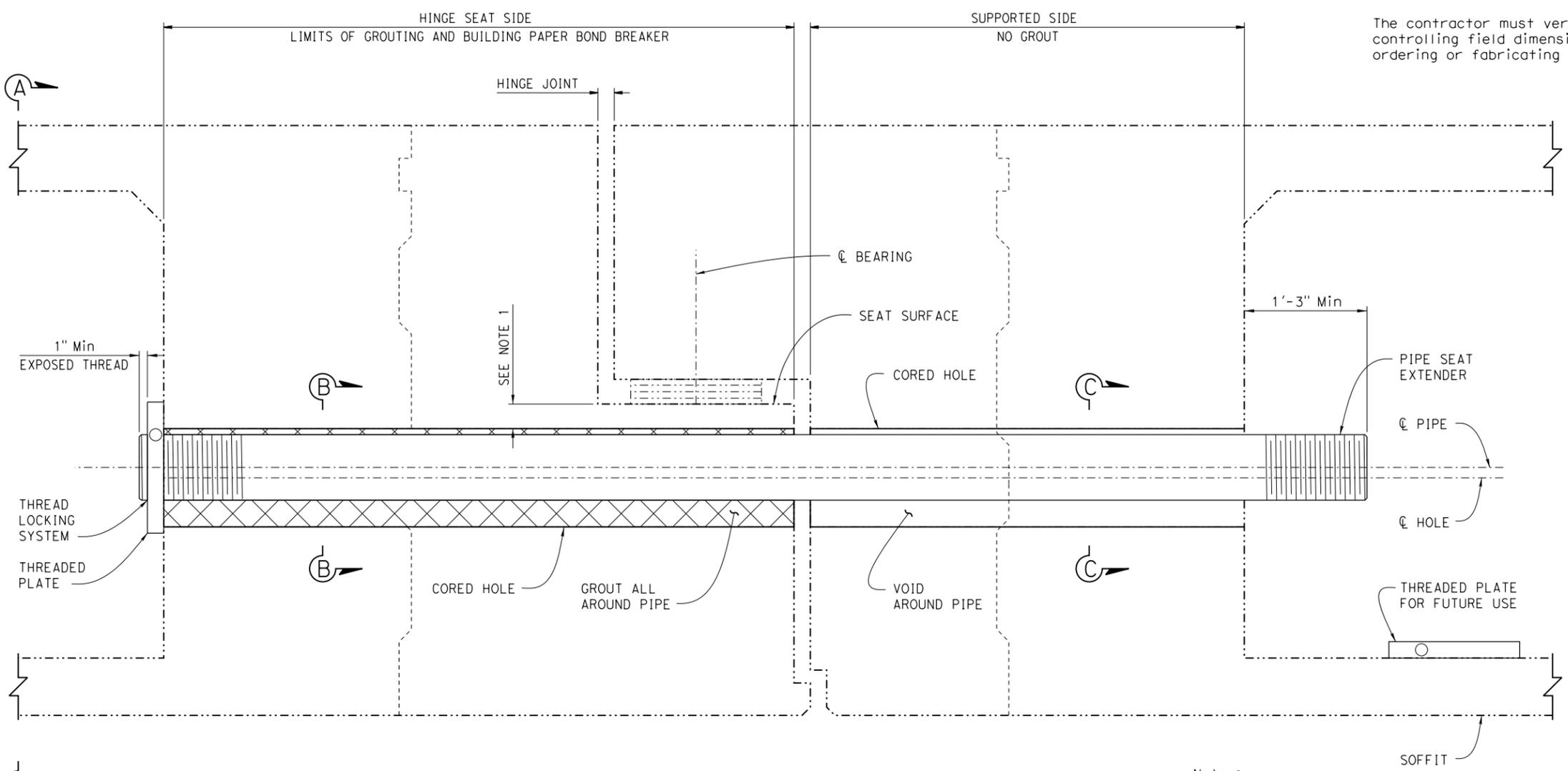


DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
X	X	X	X	X	X

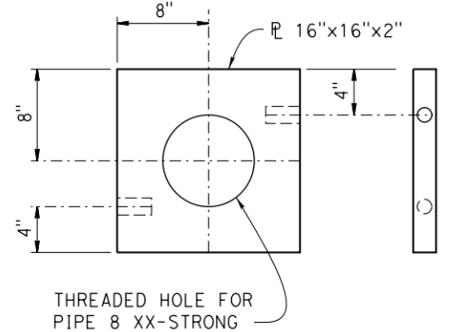
  

REGISTERED CIVIL ENGINEER	X	DATE	
PLANS APPROVAL DATE			

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.



FOR 6"Ø PIPE SEAT EXTENDER



FOR 8"Ø PIPE SEAT EXTENDER

Threaded plate for 6"Ø and 8"Ø pipe similar, except as noted.

The bearing surface for the Threaded Plate must be perpendicular to the hole.  
2 Threaded Plates per Pipe Seat Extender. Only install Plate on Hinge Seat Side. On the Supported Side place Threaded Plate on soffit below Pipe Extender for future use.

The 3" deep holes in plate are to receive a 1"Ø rod for removal of the threaded plate (by others).

**THREADED PLATE DETAILS**

1 1/2" = 1'-0"

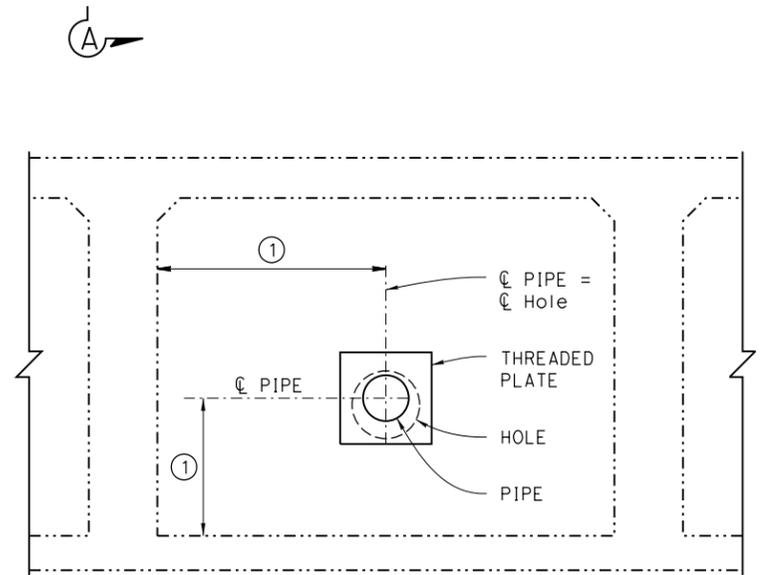
----- Indicates existing structure.

**PIPE EXTENDER ELEVATION**

1 1/2" = 1'-0"

**Notes:**

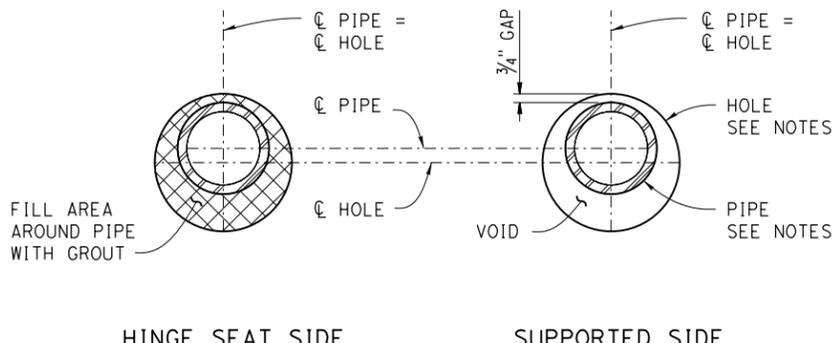
- The Hole must be aligned to form a straight line the entire length of the Pipe Extender. The Hole must be cored with the Top of Hole 2" below the seat's top main reinforcement. During construction hole ends must be capped to prevent debris intrusion.
- Pipe 8 xx-Strong Galv. pipe and 12" Ø Hole or Pipe 6 xx-Strong Galv. pipe and 10" Ø Hole. If Cable Restrainers are required, use Pipe 8 xx-Strong Galv. and see: xs7-071, "Pipe Extender/Shear Key With Restrainer Details (Retrofit)" sheet
- Set pipe parallel to top of hole. Maintain a 3/4" gap between pipe and top of 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.
- Thread Pipe and Plate: 8 threads per inch per ASME B 1.20.1. Thread pipe 12" on both ends.
- Apply Thread Locking System after grouting and tighten Threaded Plate snug against concrete surface, Hinge Seat only.
- Existing reinforcement not shown.



**VIEW A-A**

3/4" = 1'-0"

① For Location of pipe, see Structure Plans.



**HINGE SEAT SIDE**

**SUPPORTED SIDE**

**SECTION B-B**

1 1/2" = 1'-0"

**SECTION C-C**

1 1/2" = 1'-0"

<b>STANDARD DRAWING</b>	
FILE NO. <b>xs7-081</b>	APPROVAL DATE <u>July 2014</u>

<b>NOTES TO DESIGNER</b>	Place Pipe Extender between bearings.
Remove these notes at PS&E	

<b>STATE OF CALIFORNIA</b>	<b>DIVISION OF ENGINEERING SERVICES</b>
DEPARTMENT OF TRANSPORTATION	

BRIDGE NO.	X	<b>PIPE EXTENDER/SHEAR KEY DETAILS (RETROFIT)</b>
POST MILE	X	