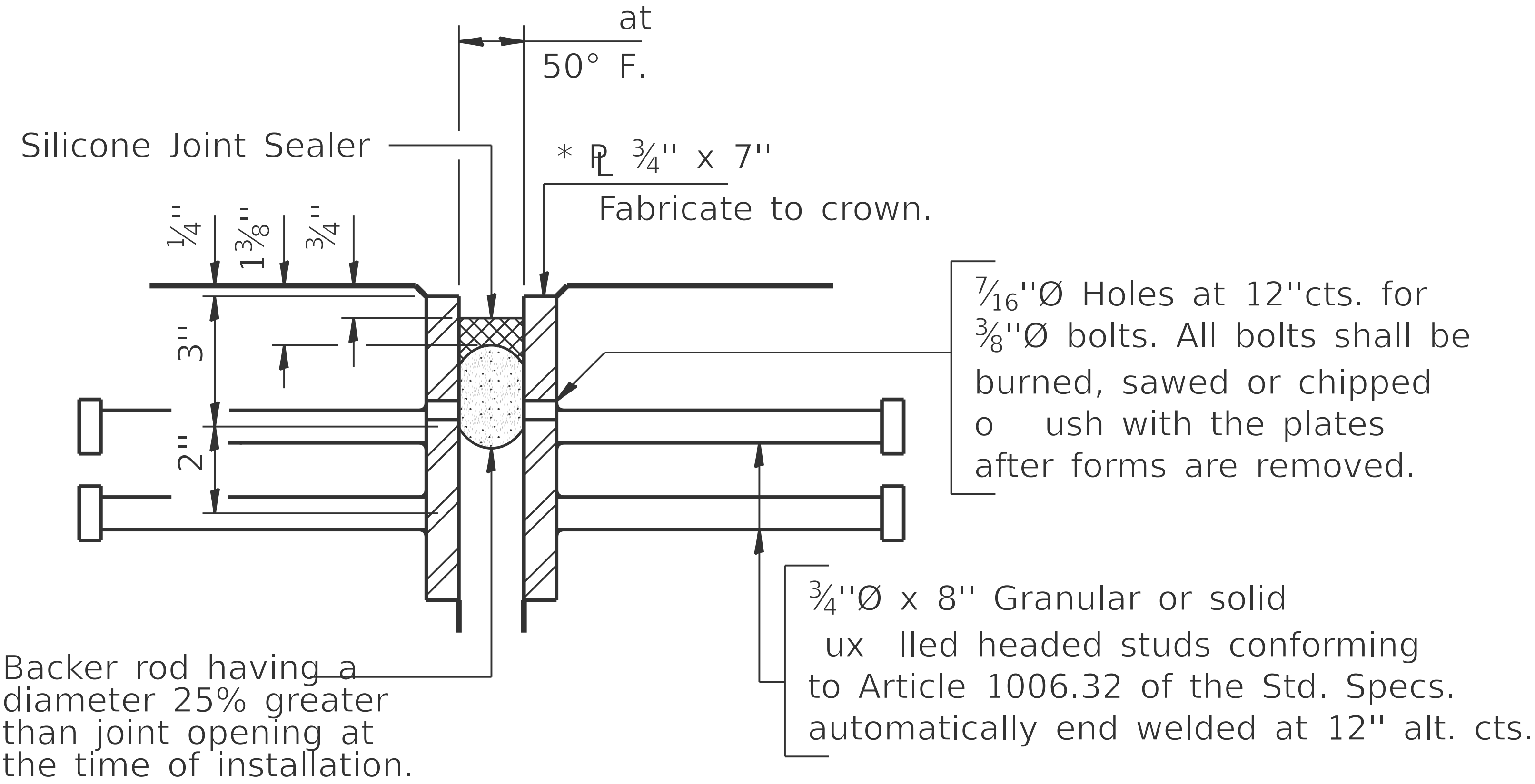




\* Furnish in segments of 20 ft. maximum length. Maximum space between installed segments shall be  $\frac{3}{16}$ ". Seal space with Silicone Sealant suitable for Structural Steel.

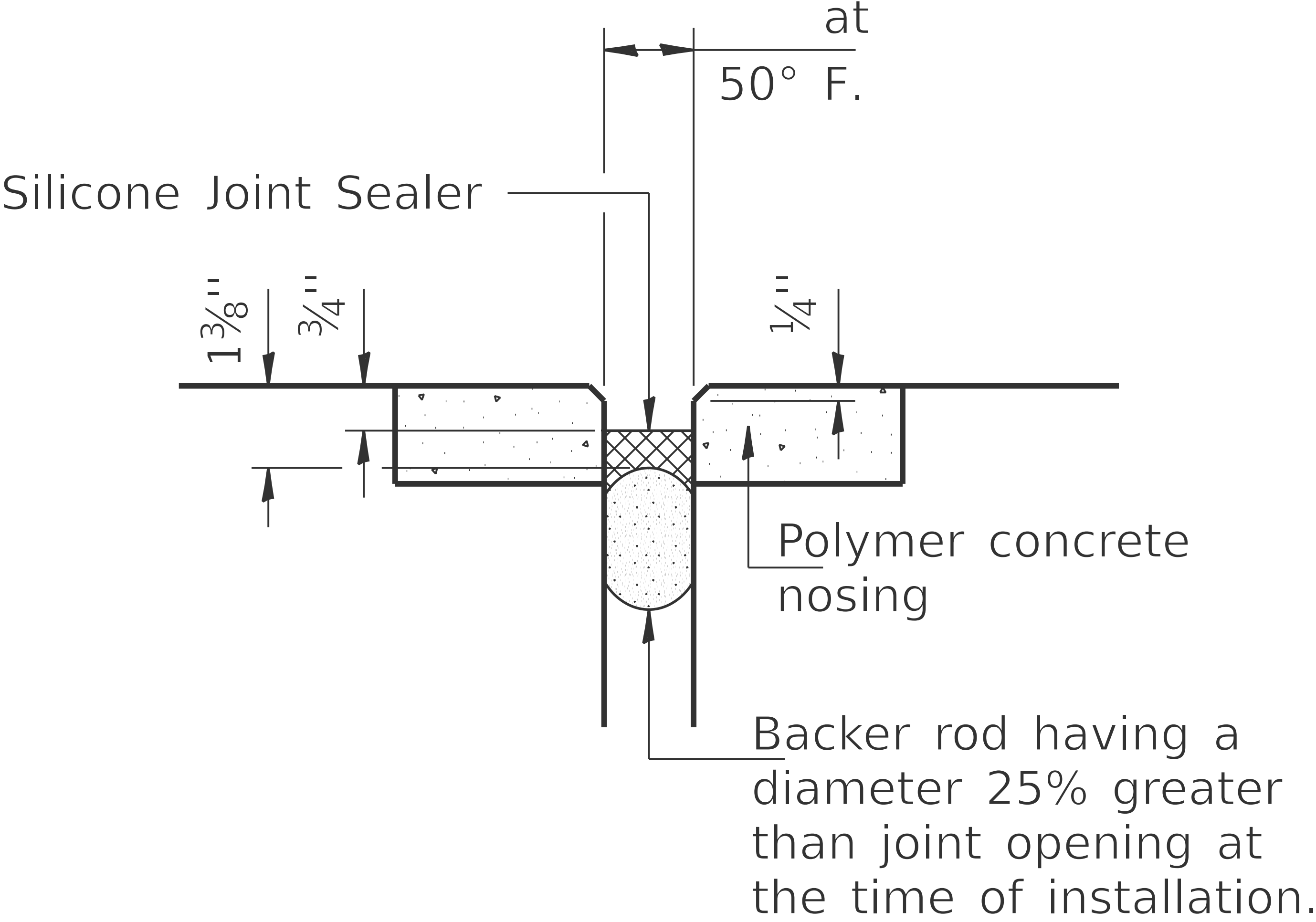
Note: After fabrication all surfaces of the steel plates shall be given one shop coat of paint specified for Structural Steel. No field painting required.

**SILICONE JOINT SEALER DETAIL**

**DESIGN CHART**

| Length Contributing to Expansion | 0' - 40' | 40' - 80' | 80' - 120' | 120' - 160' | 160' - 200' |
|----------------------------------|----------|-----------|------------|-------------|-------------|
| Joint Opening at 50° F           | 1''      | 1½''      | 2''        | 2½''        | 3''         |



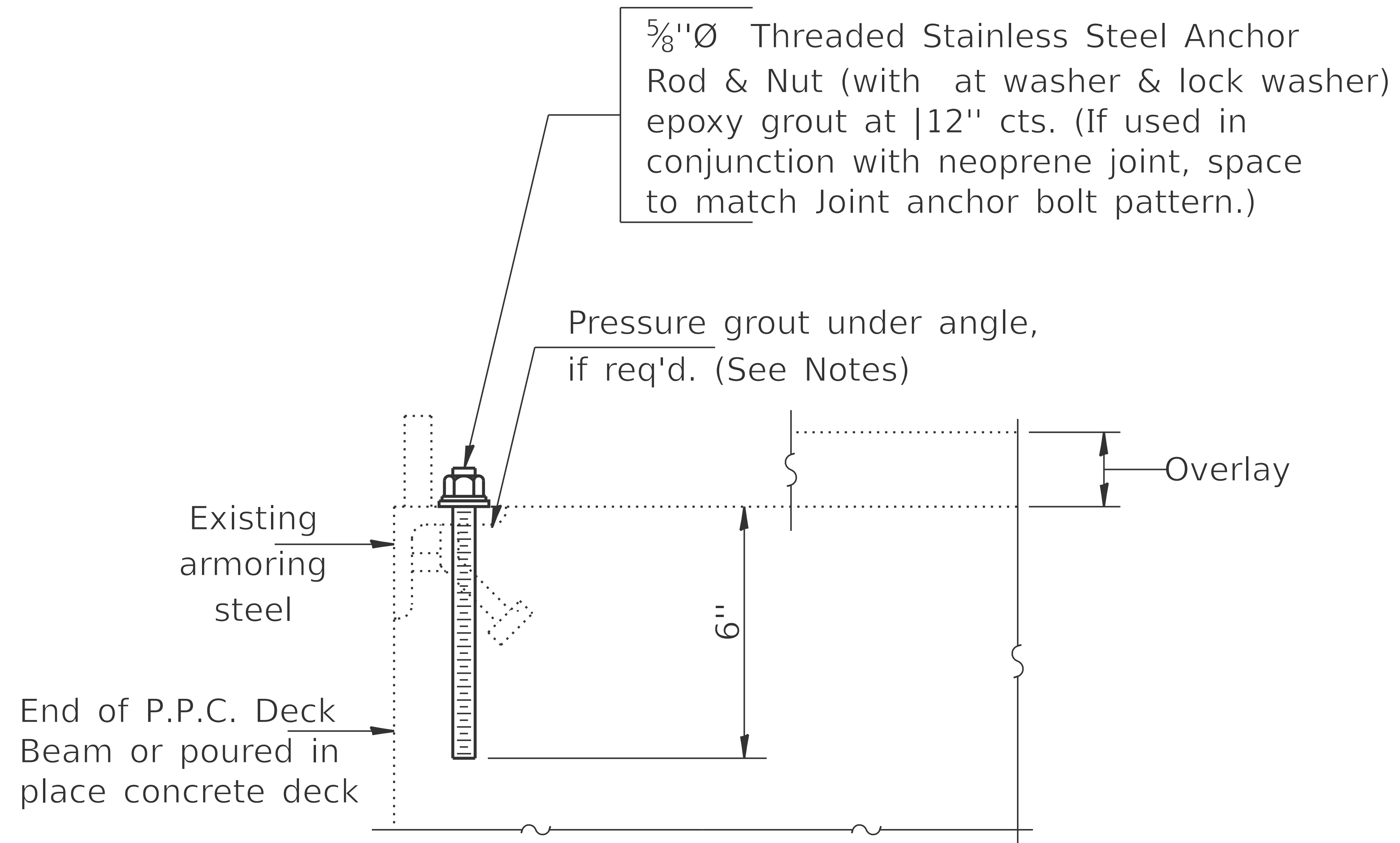


**SILICONE JOINT SEALER DETAIL**

**DESIGN CHART**

|                                  |          |           |            |             |             |
|----------------------------------|----------|-----------|------------|-------------|-------------|
| Length Contributing to Expansion | 0' - 40' | 40' - 80' | 80' - 120' | 120' - 160' | 160' - 200' |
| Joint Opening at 50° F           | 1' '     | 1 1/2' '  | 2' '       | 2 1/2' '    | 3' '        |

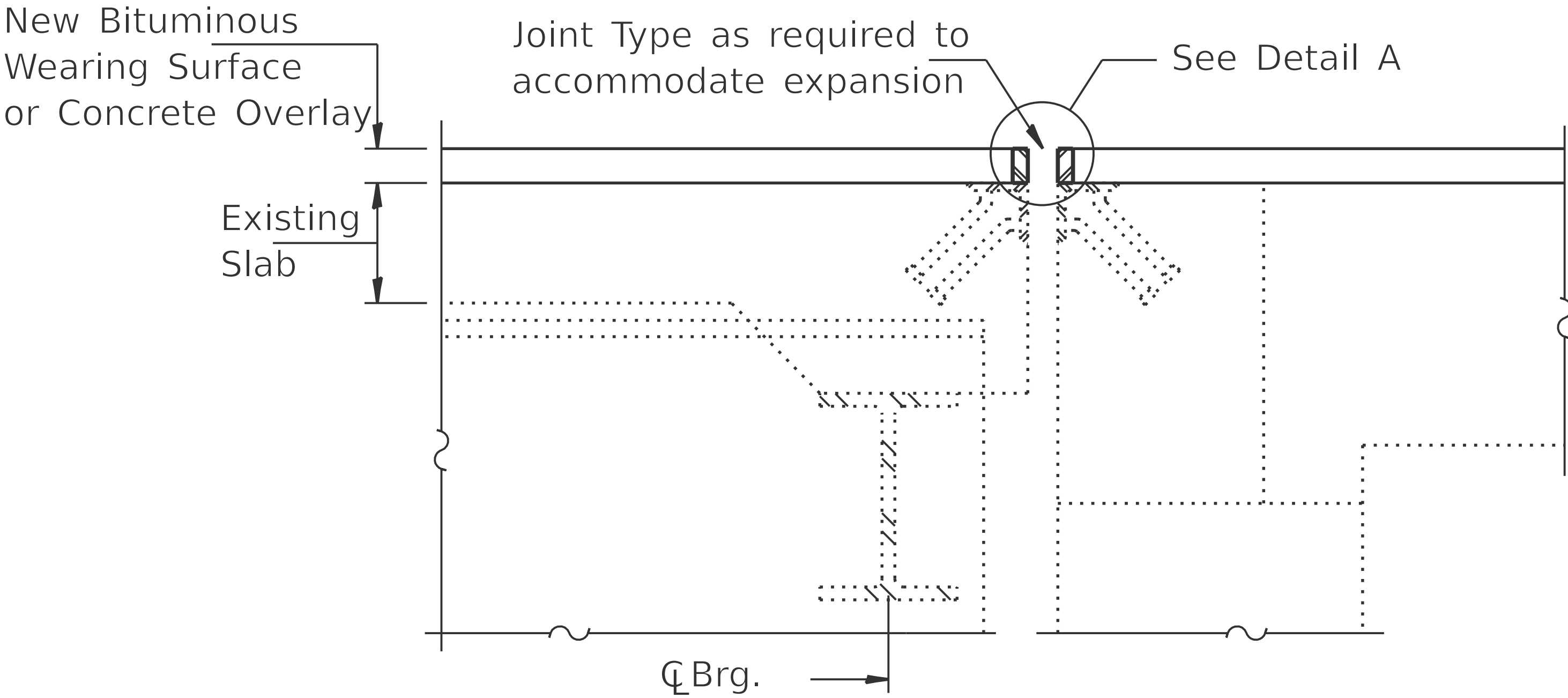




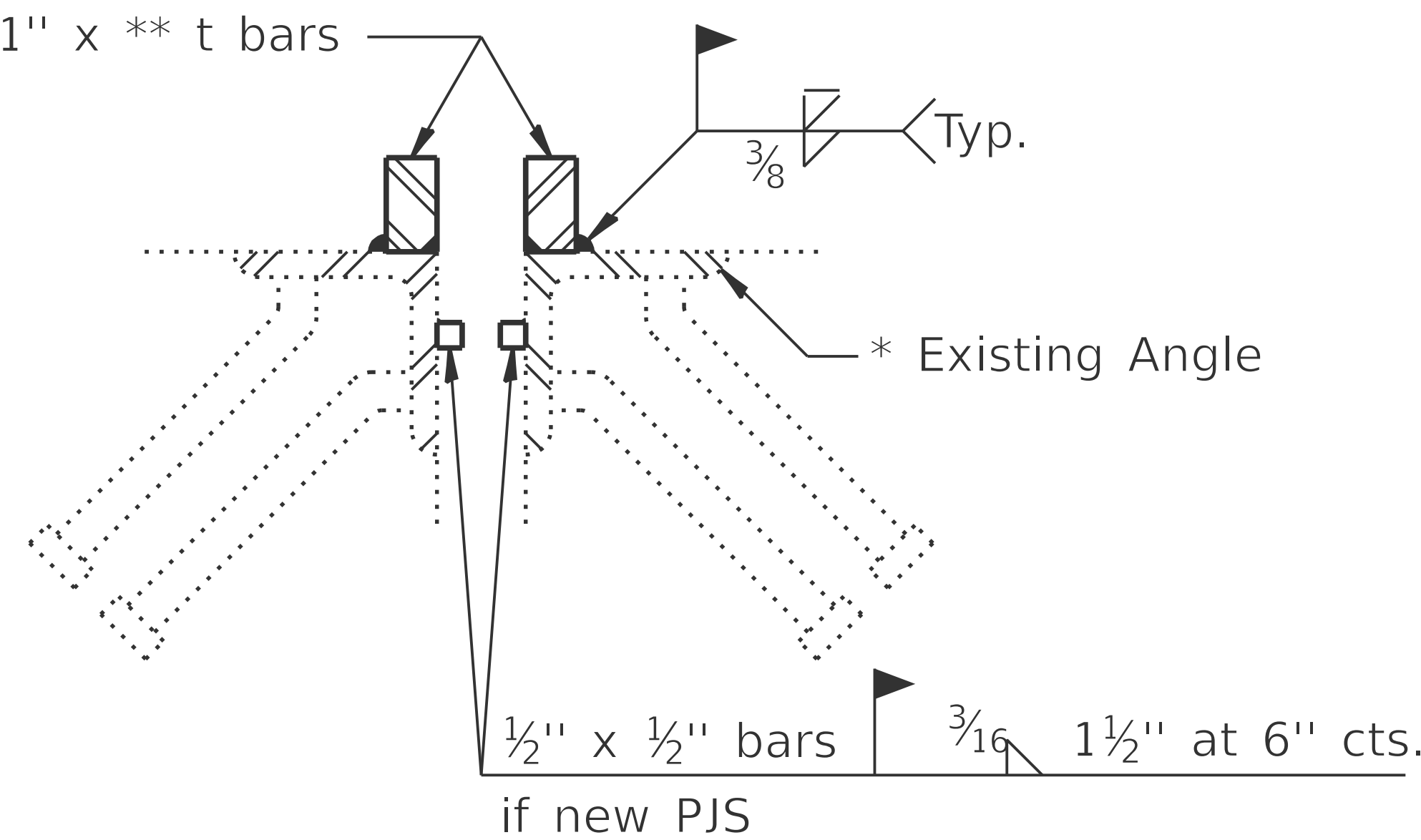
**Notes:** Loose angles will be bolted to the end of the deck or P.P.C. deck beams by eld drilling holes through the existing angles and epoxy grouting threaded rods into the deck.

If the existing angles sound loose after the epoxy grouted rods are in place, holes will be drilled through the angles and epoxy injected under the angles.





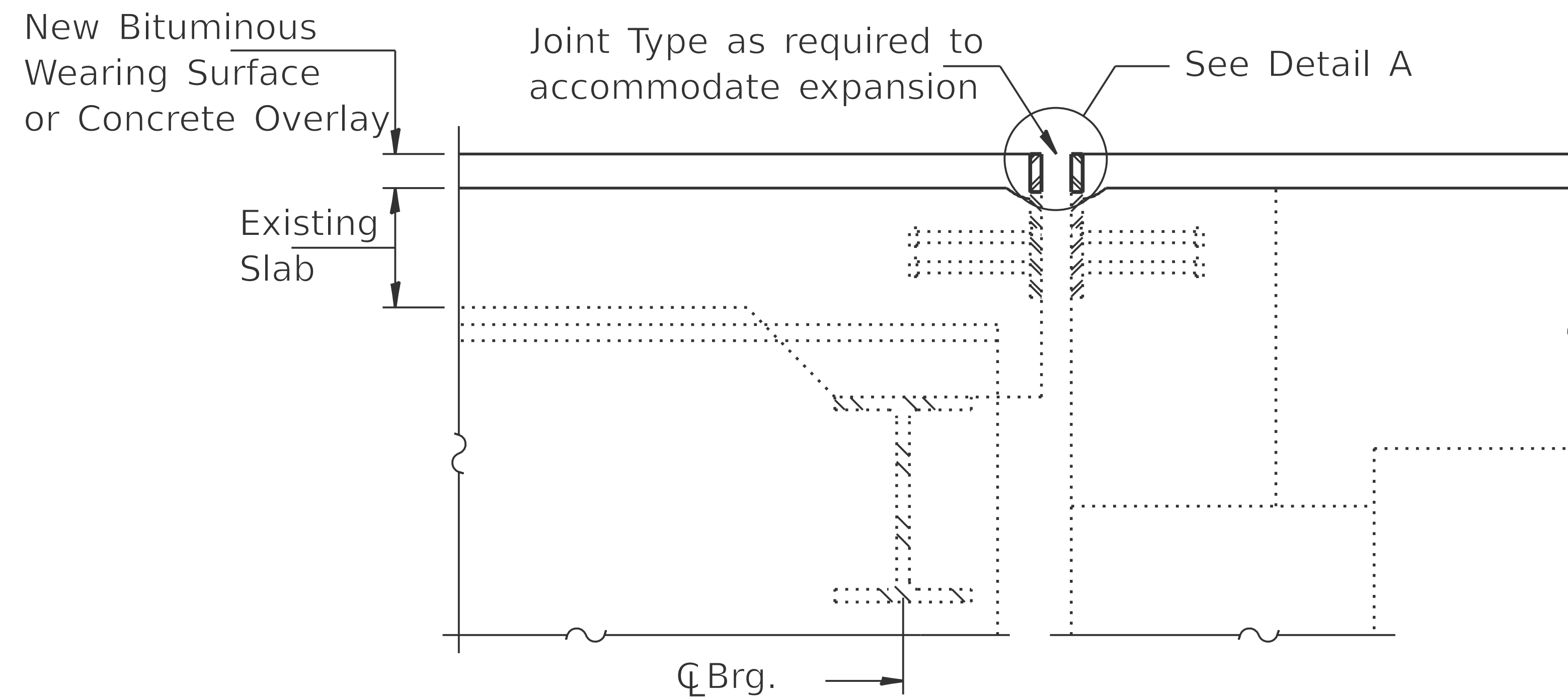
**SECTION AT ABUTMENT**



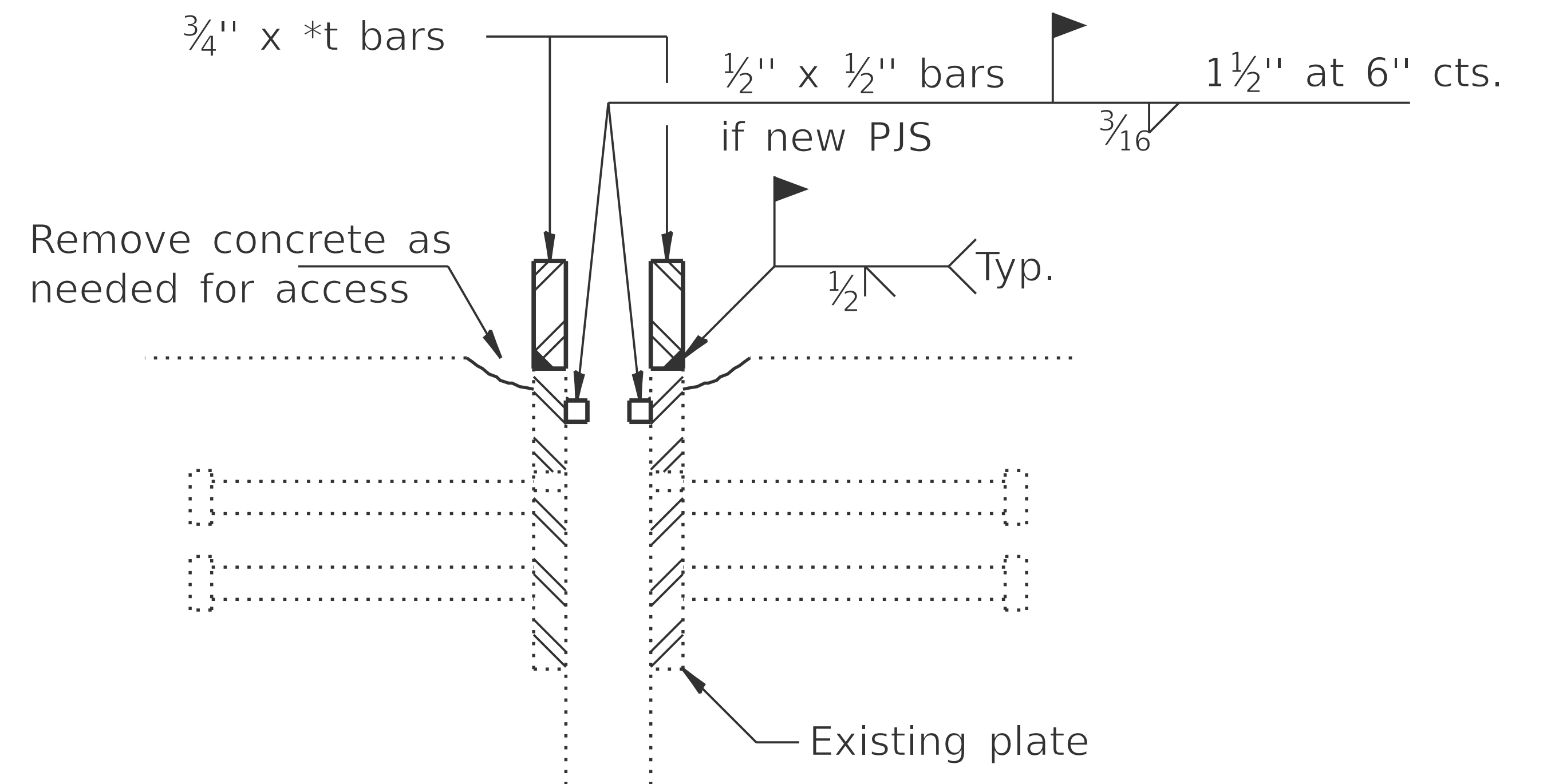
**DETAIL A**

- \* Re-anchoring of existing angles may be required. See Figure 1.5.3-1
- \*\* t = Thickness of Bituminous Surface or Concrete Overlay.





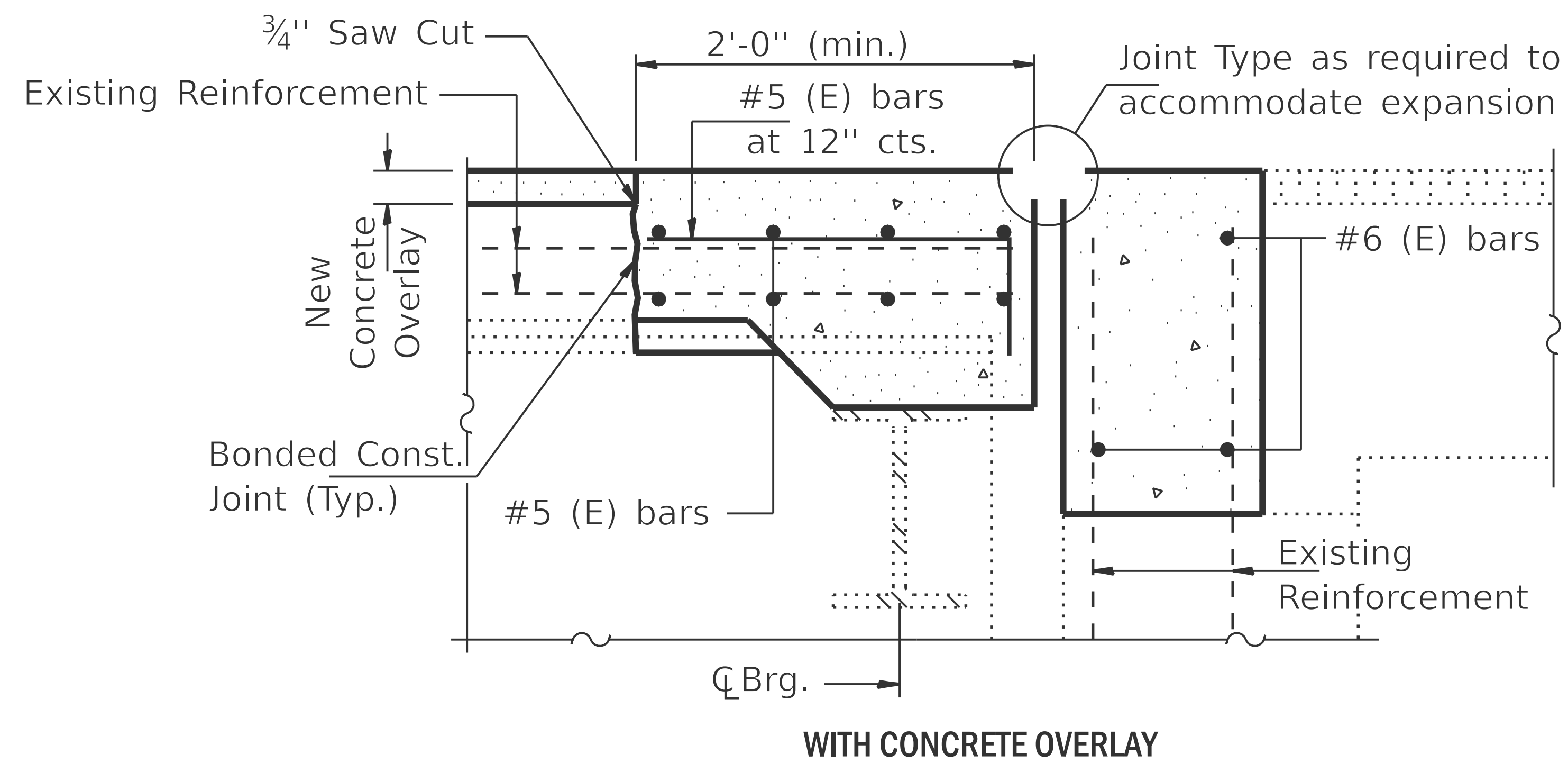
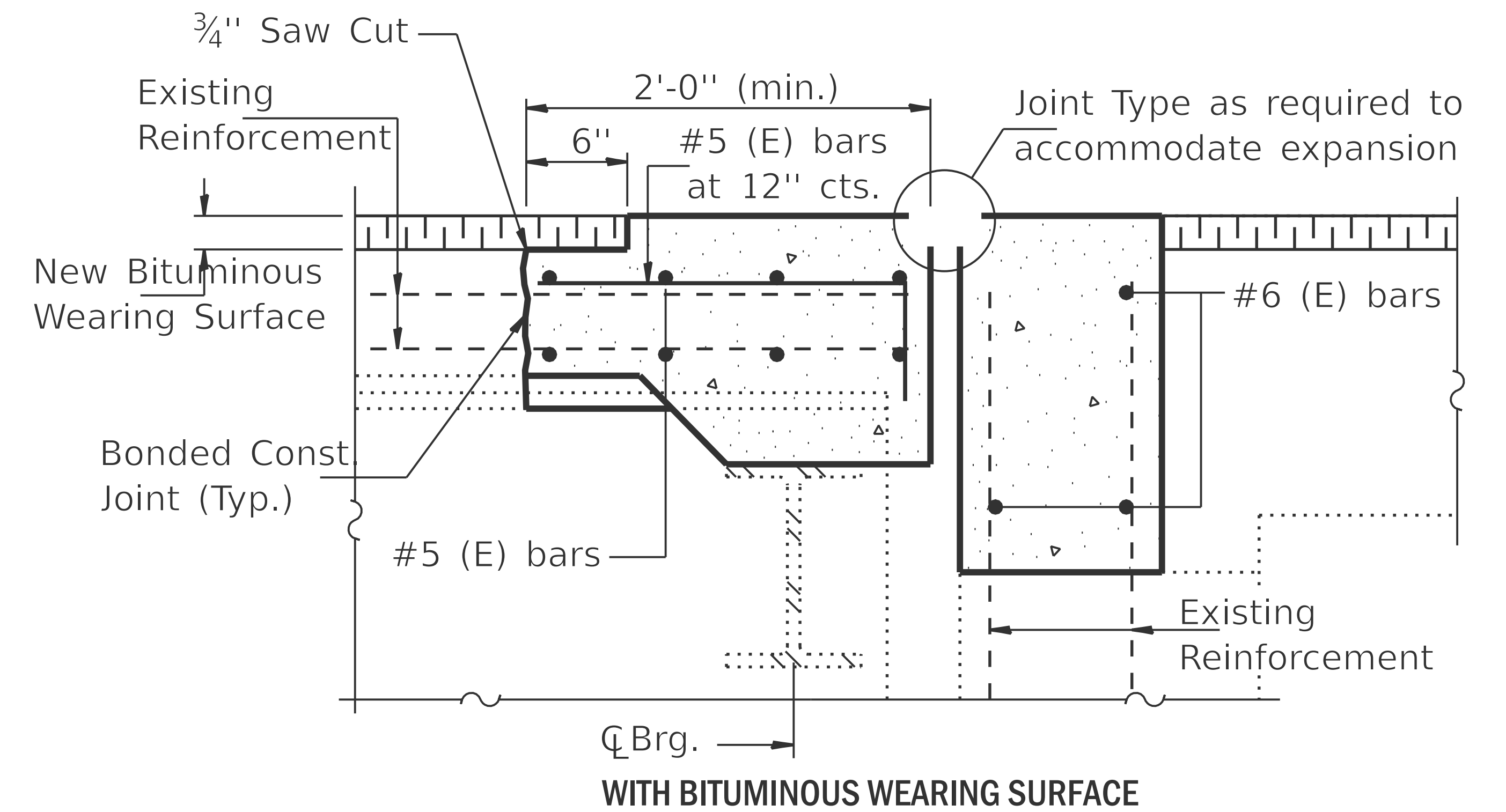
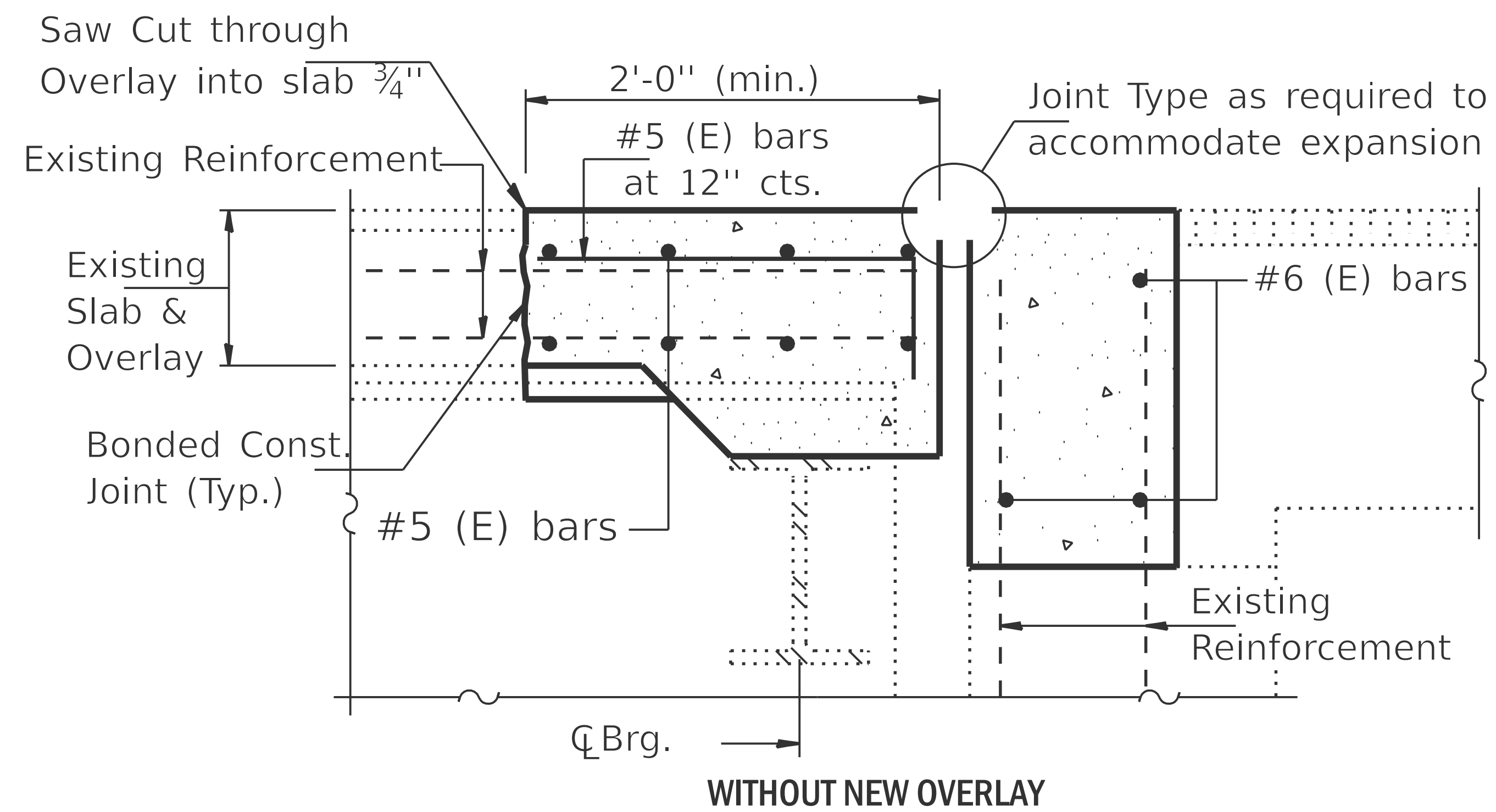
**SECTION AT ABUTMENT**



**DETAIL A**

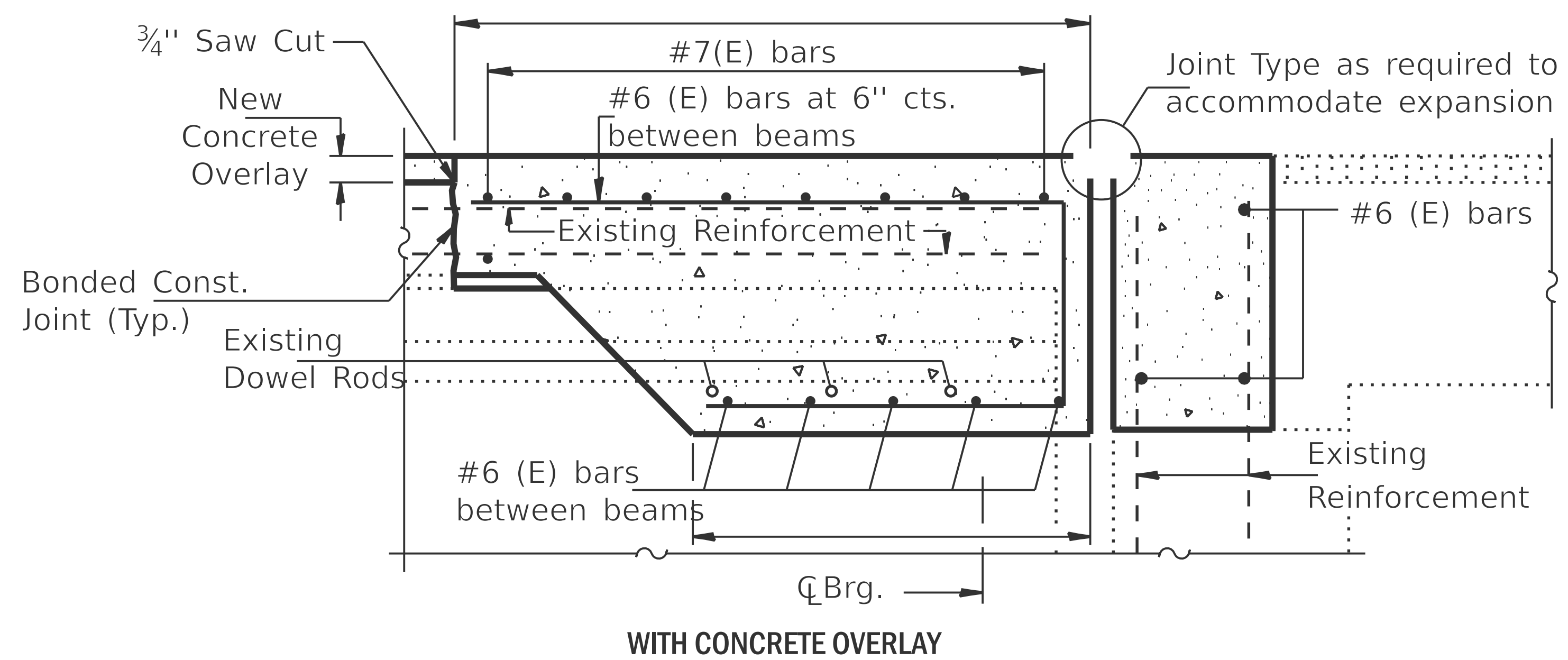
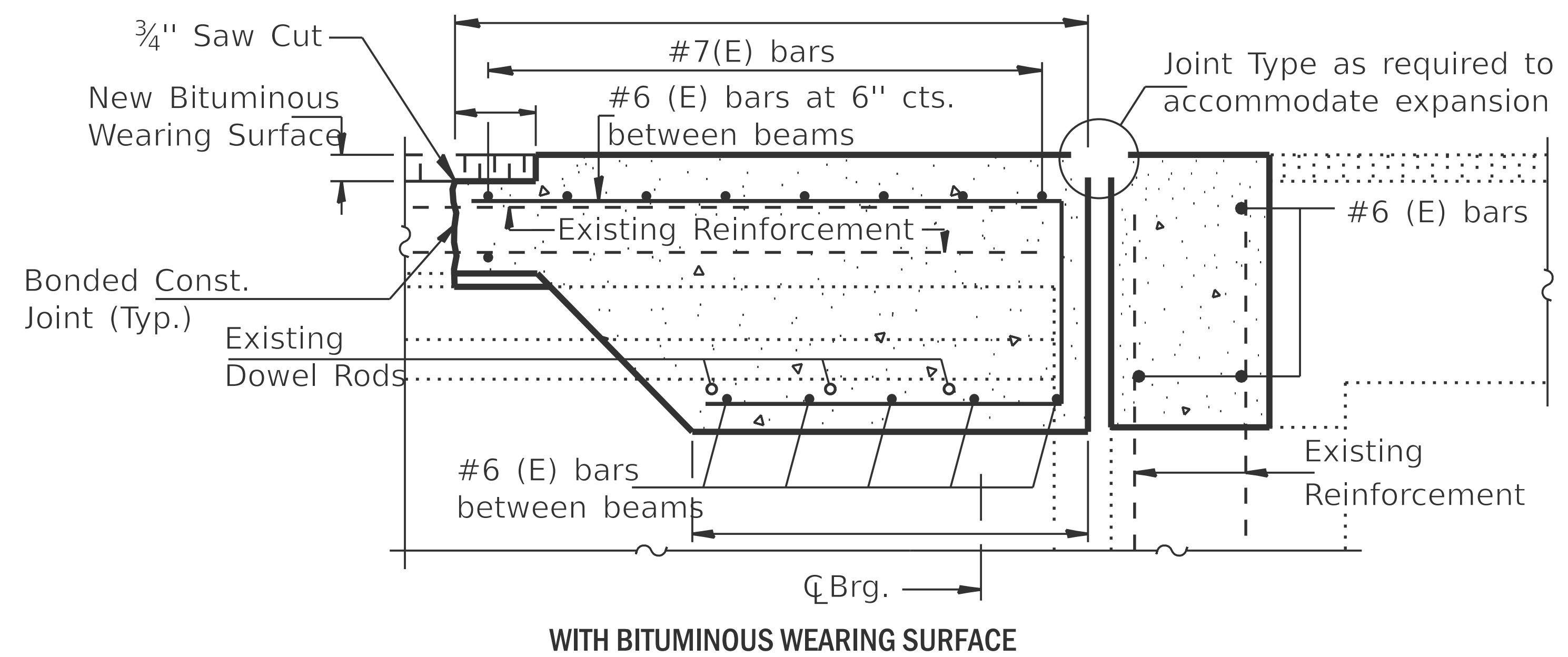
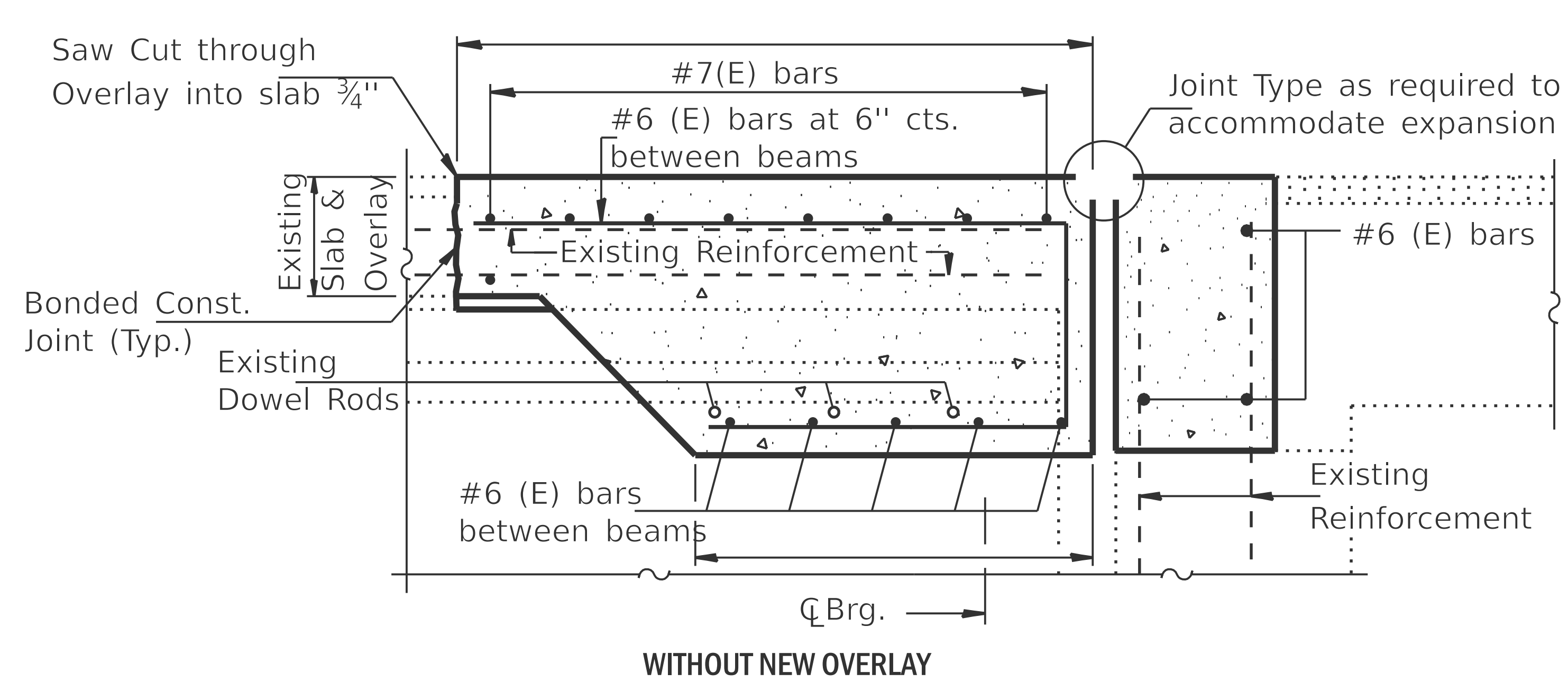
\* t = Thickness of Bituminous Surface or Concrete Overlay.





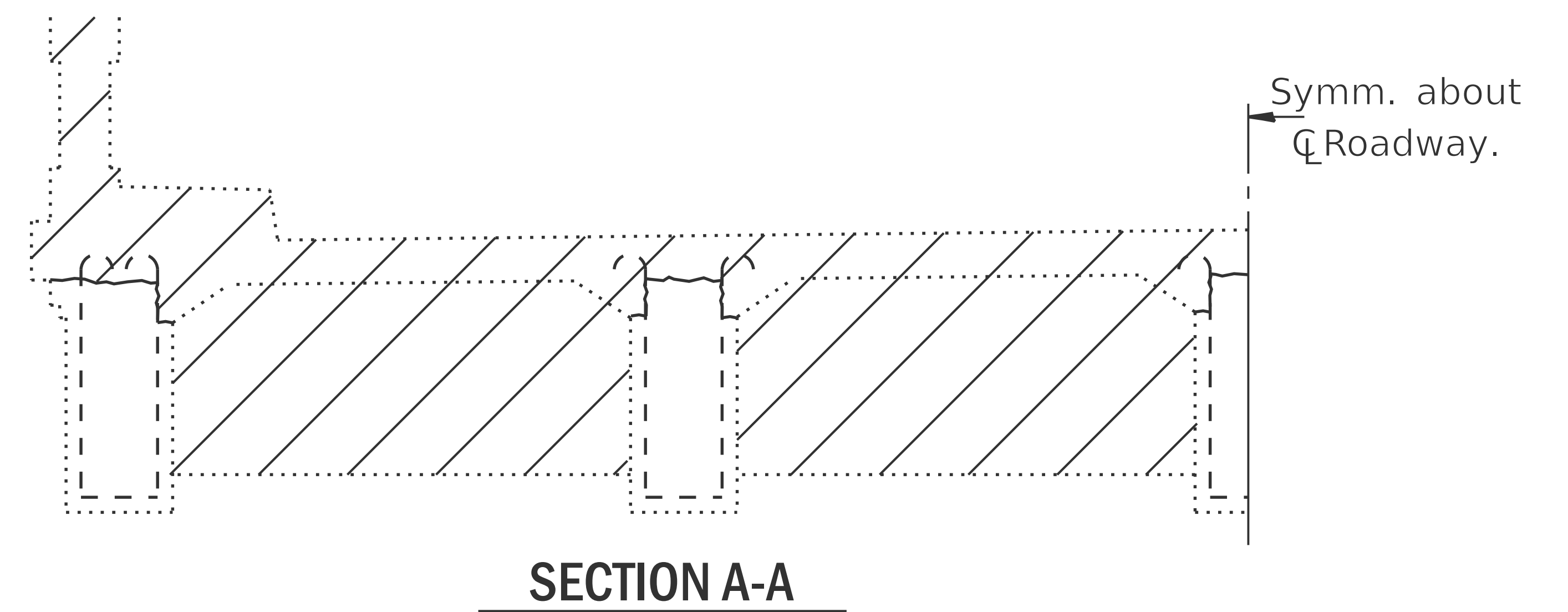
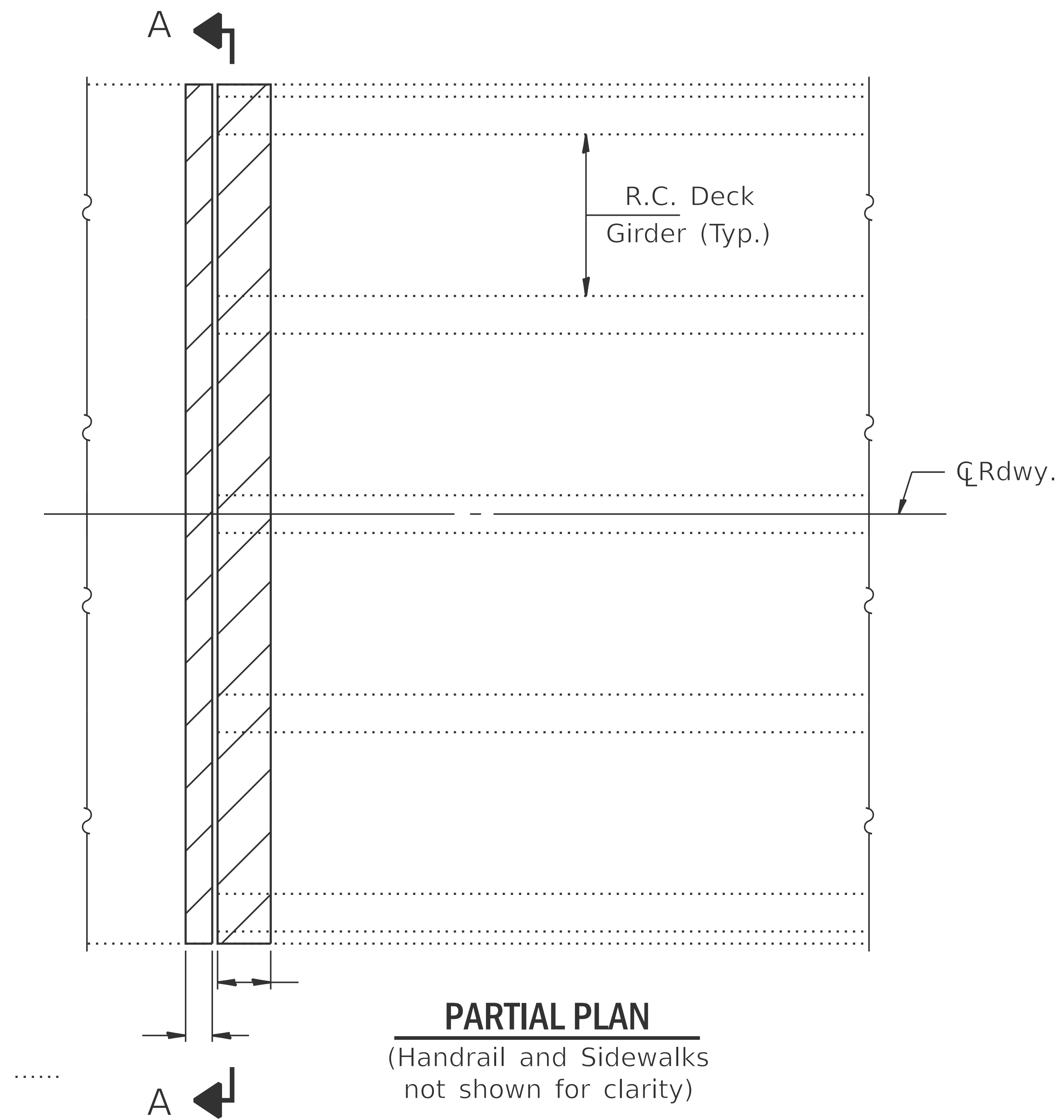
Note: Existing Reinforcement Bars shown are to be cleaned and incorporated into new construction.



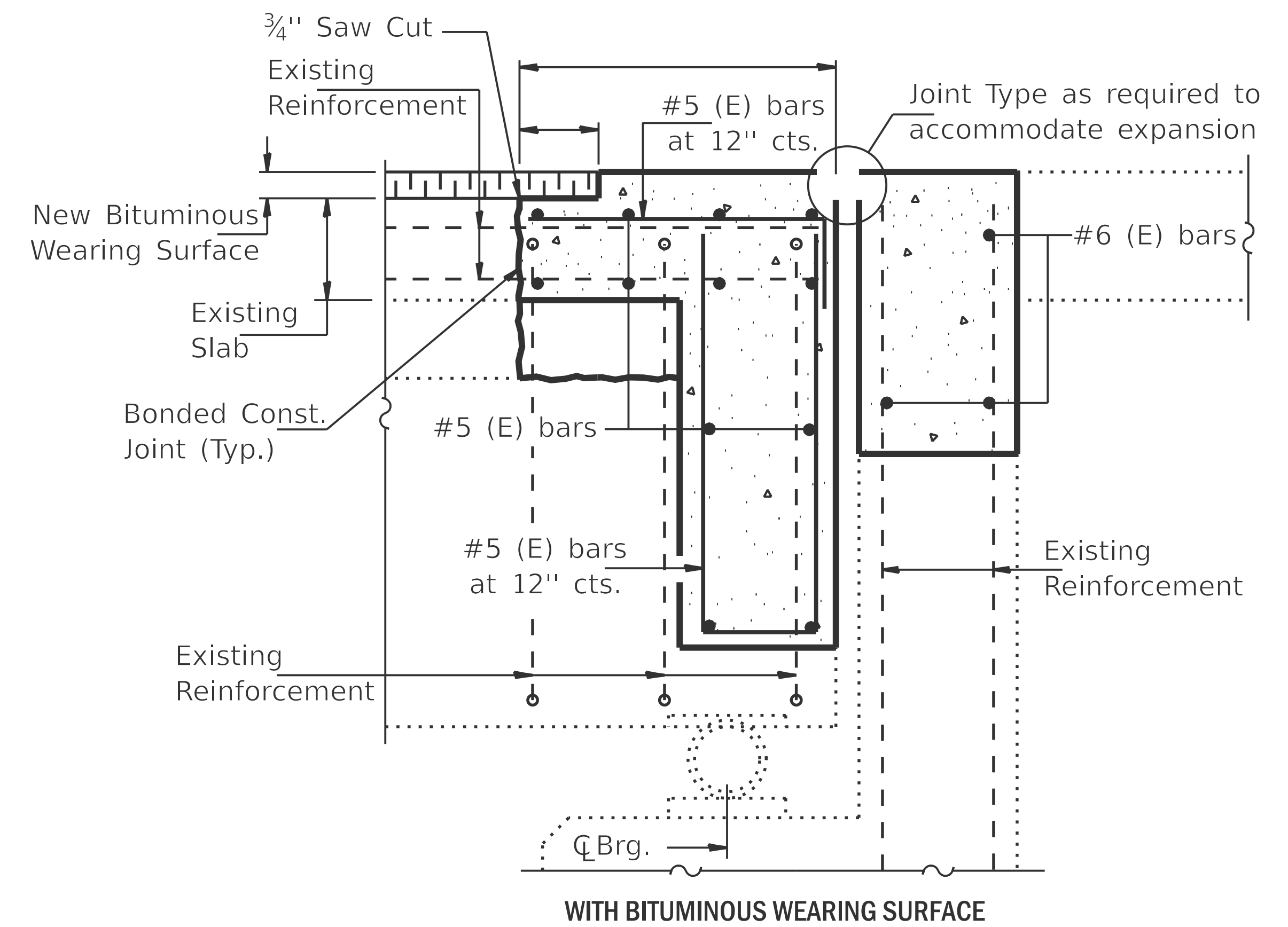
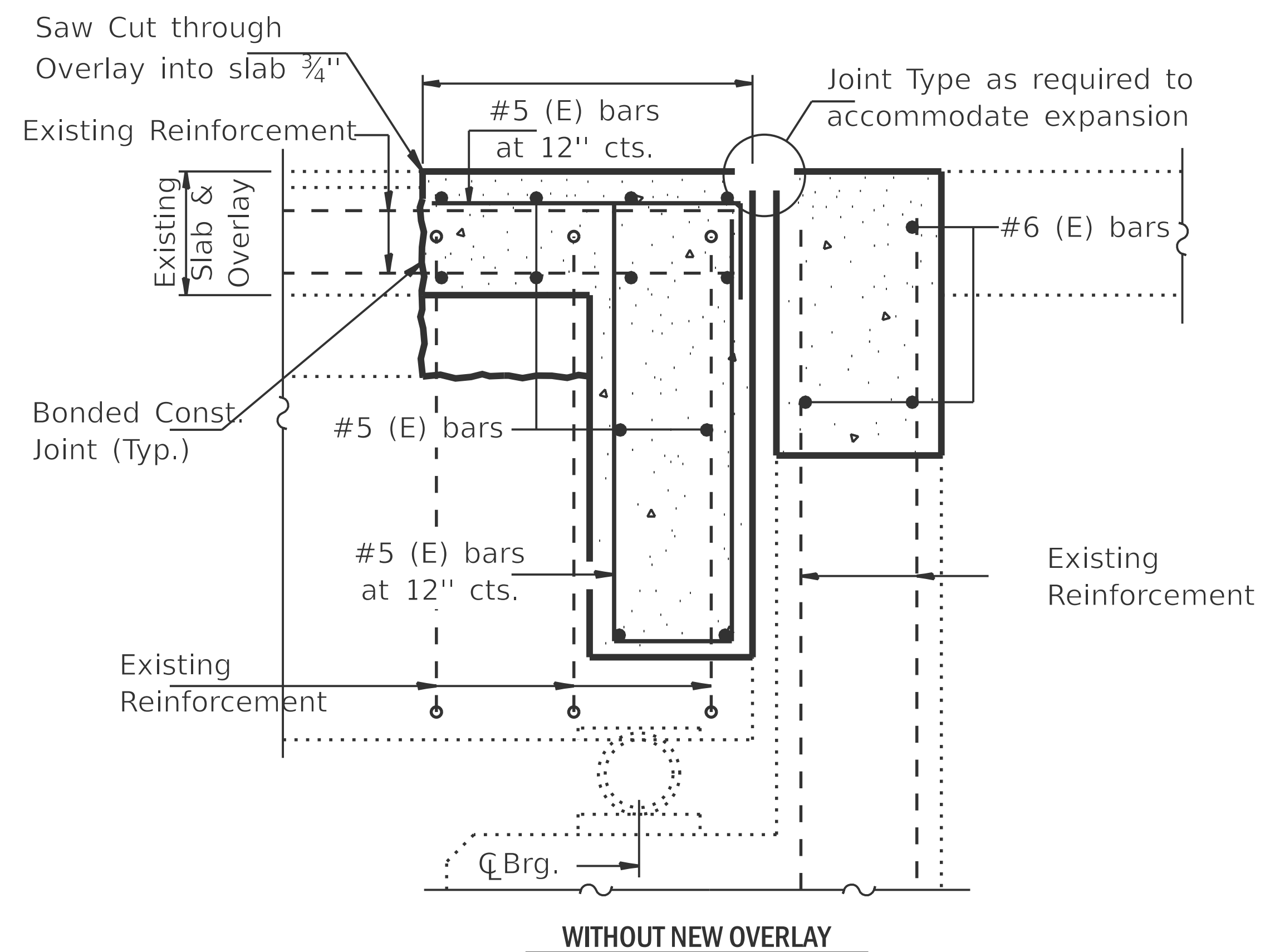


Note: Existing Reinforcement Bars and Dowell Rods shown are to be cleaned and incorporated into new construction.



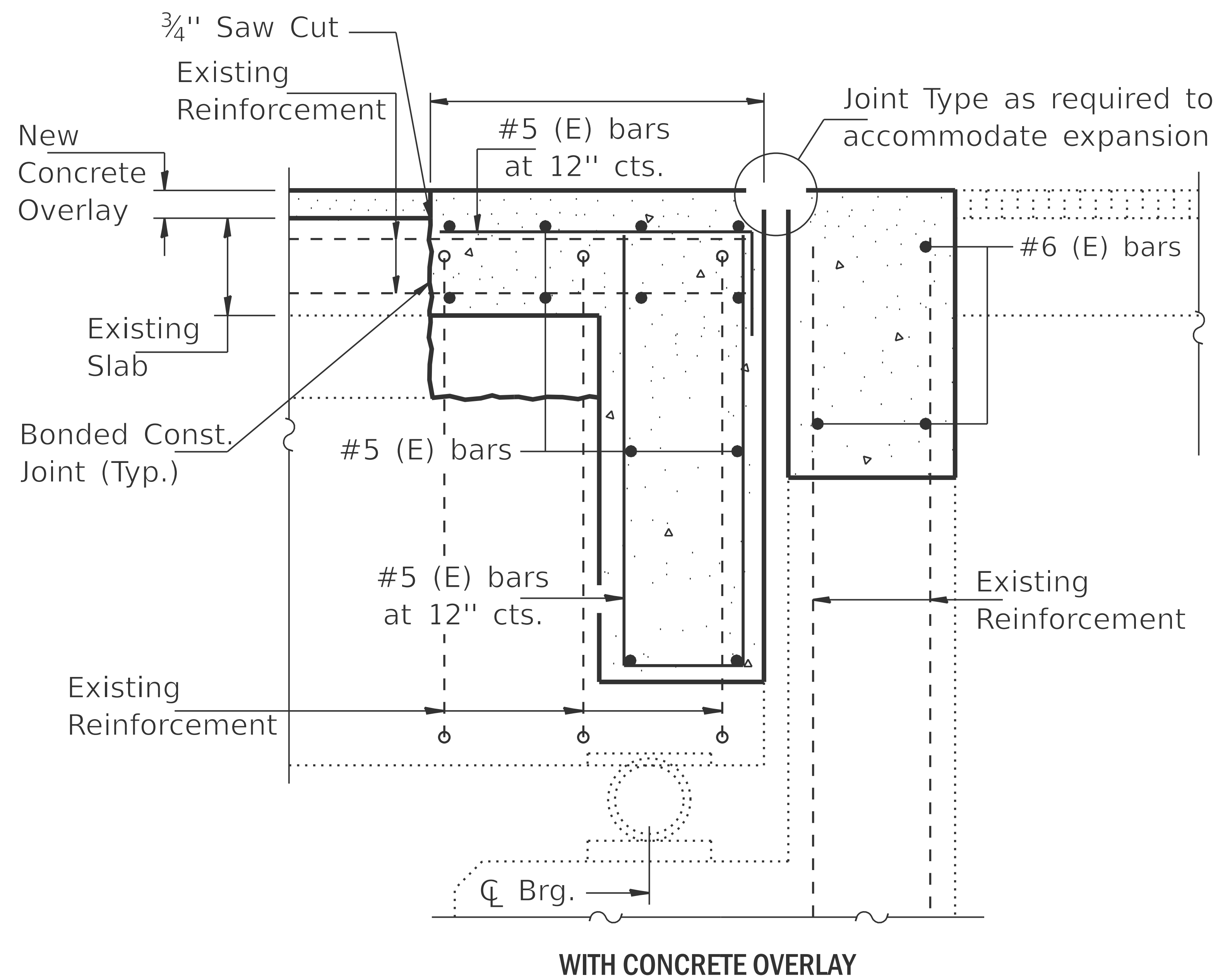






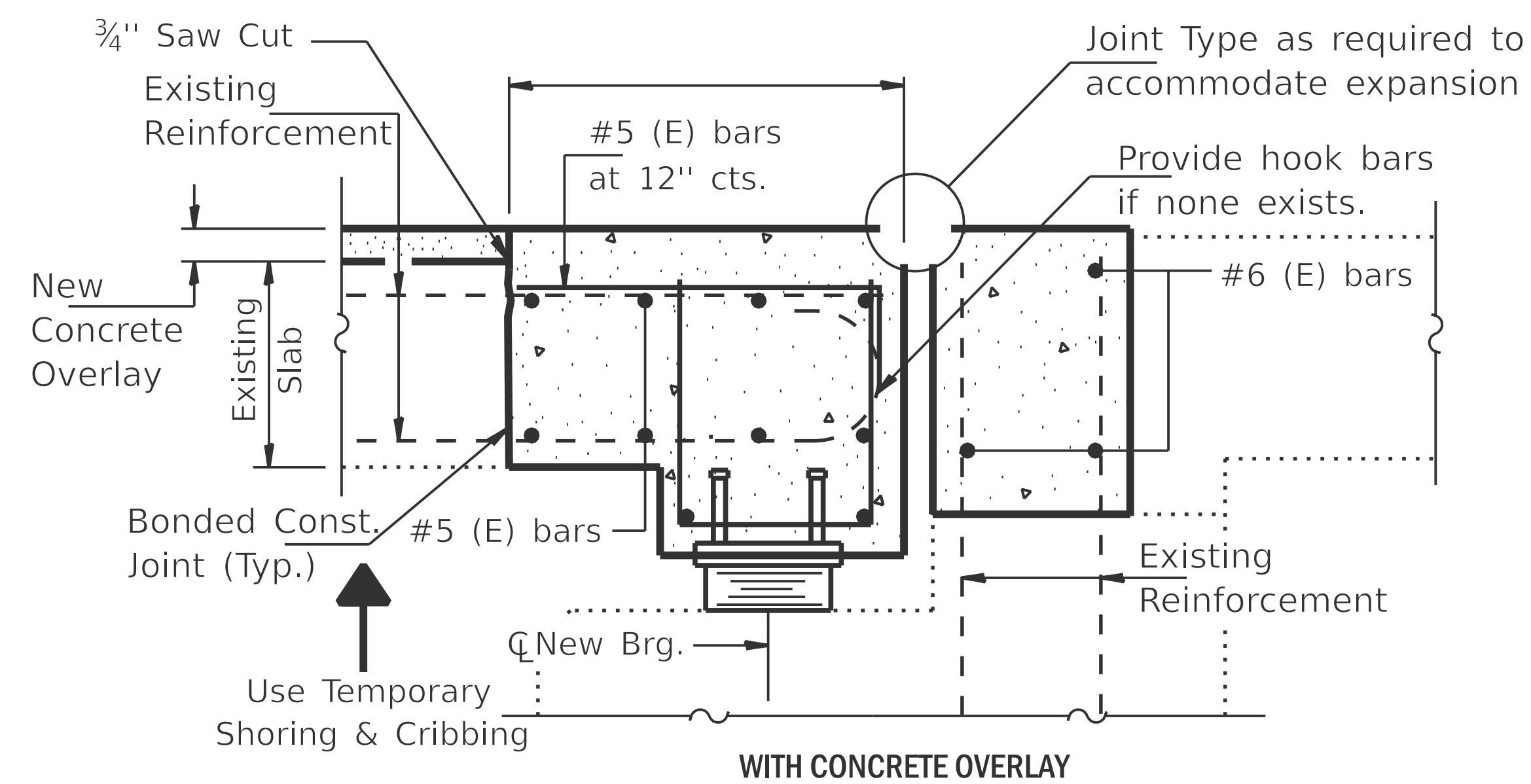
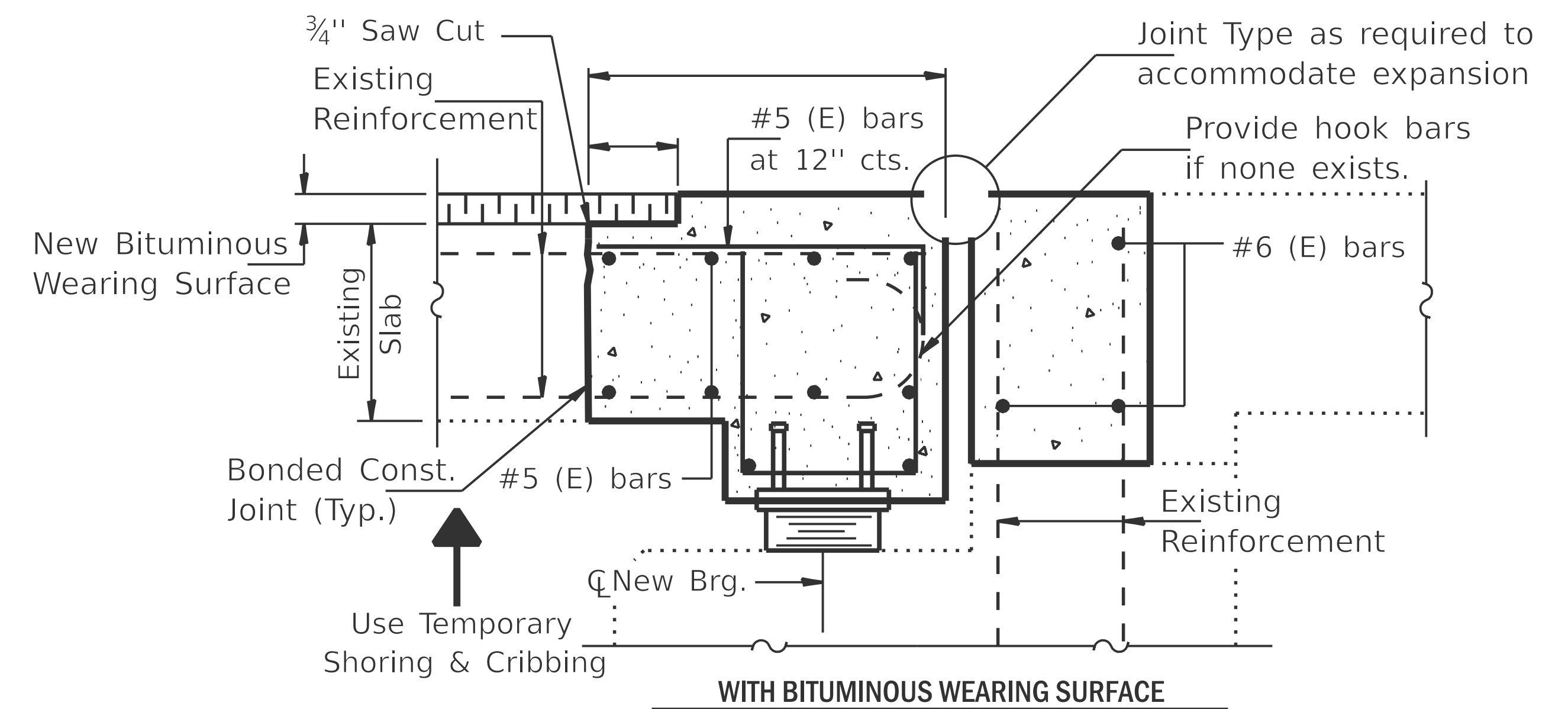
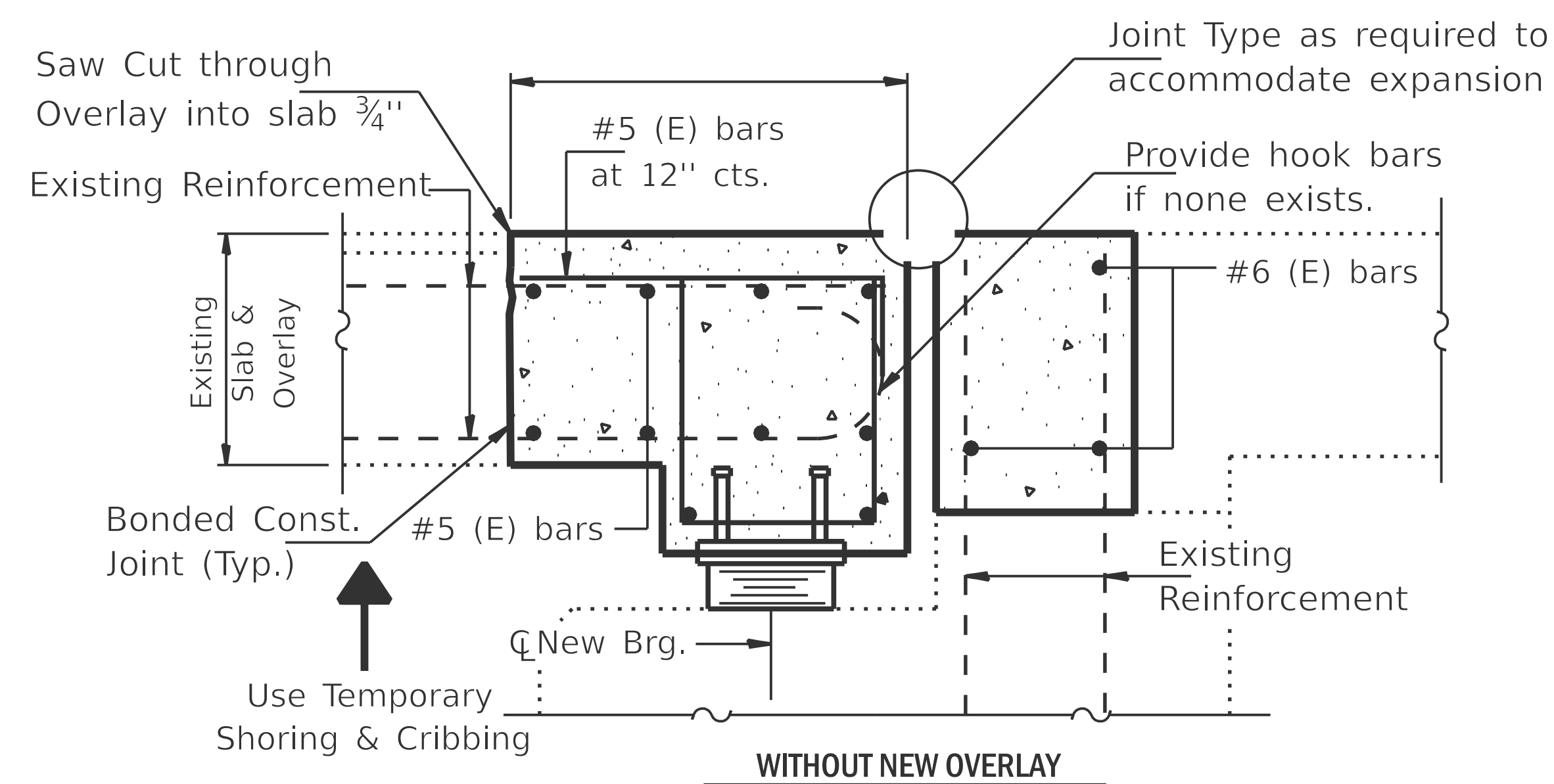
Note: Existing Reinforcement Bars shown are to be cleaned and incorporated into new construction.





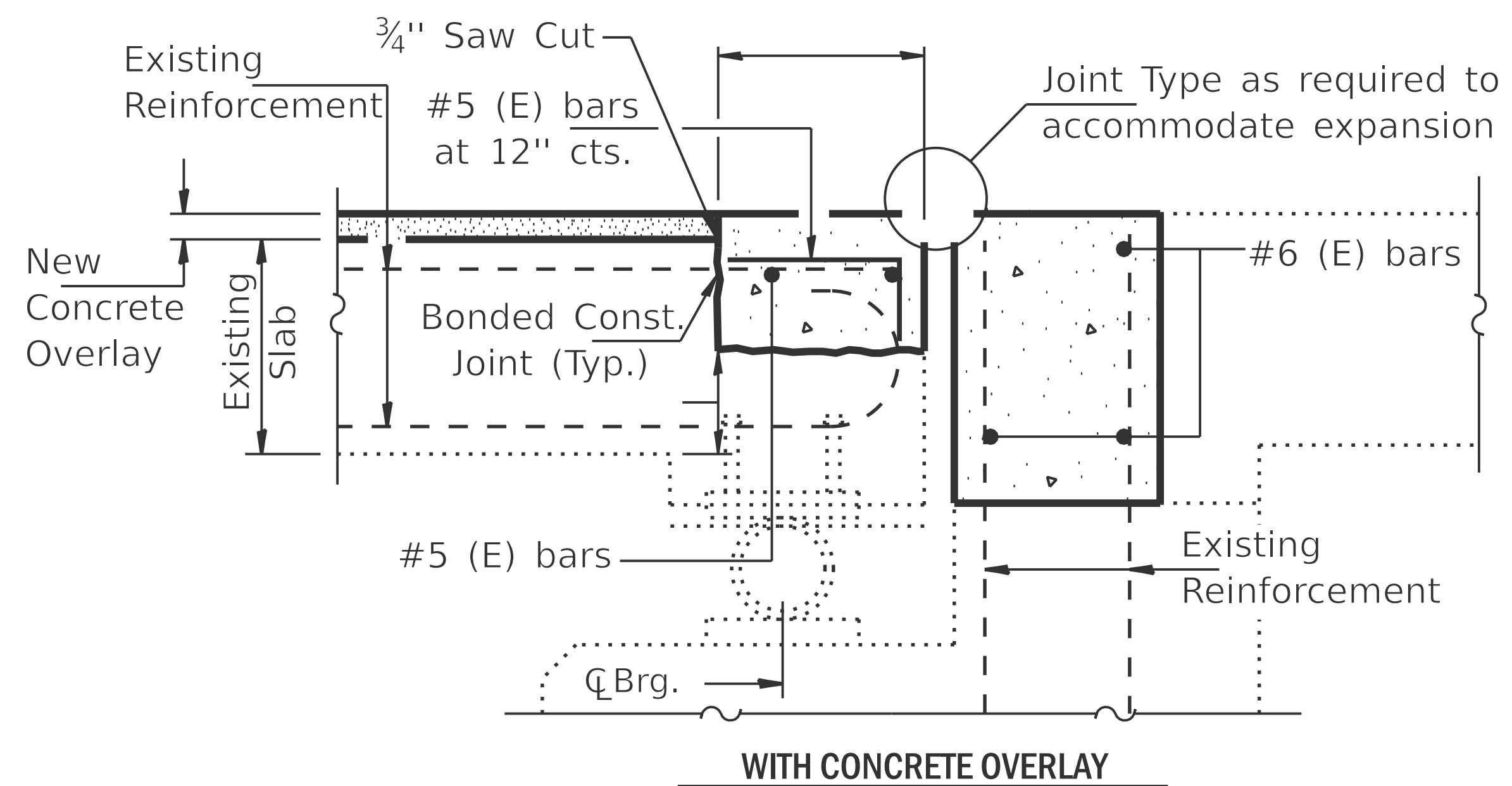
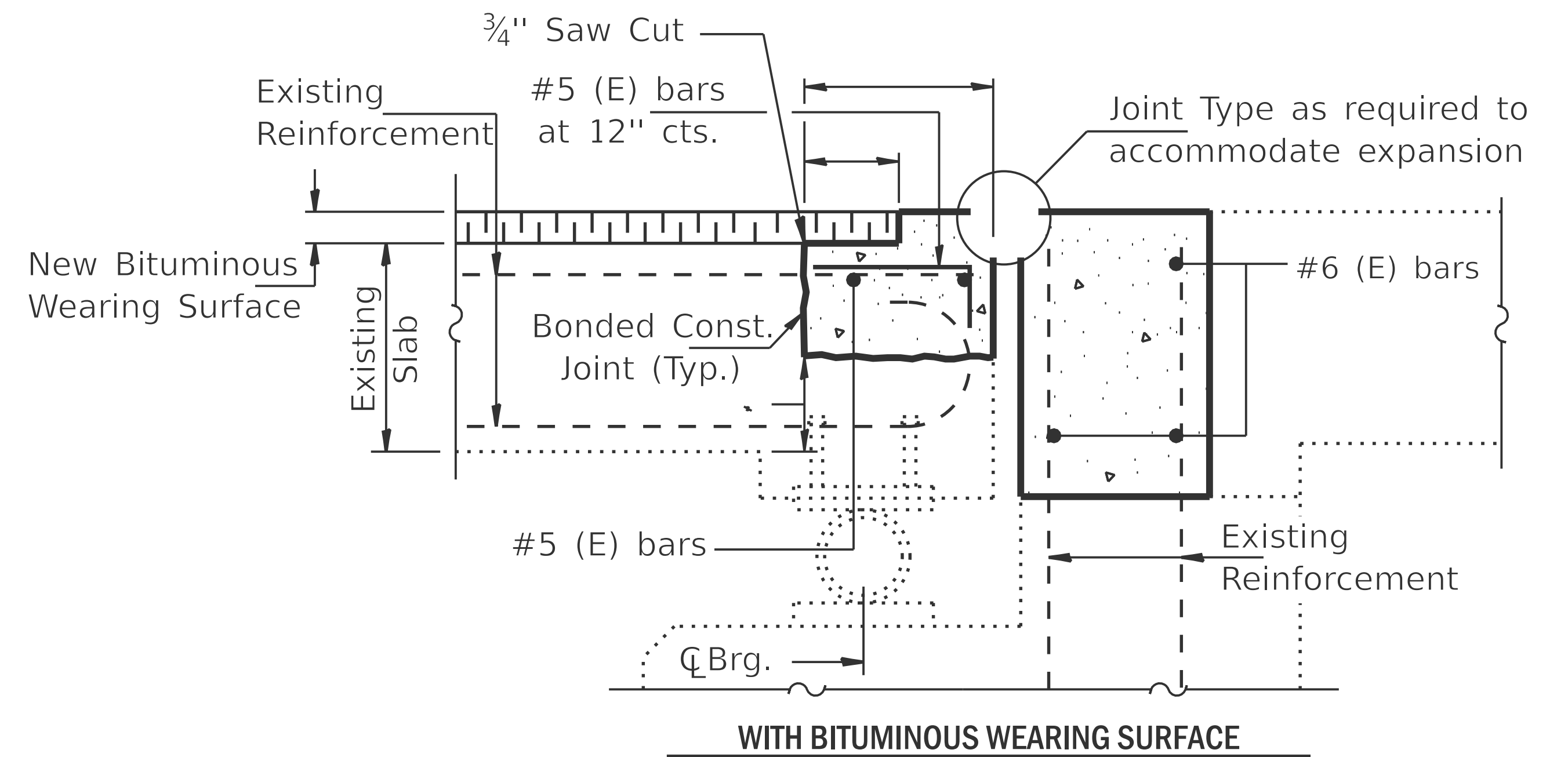
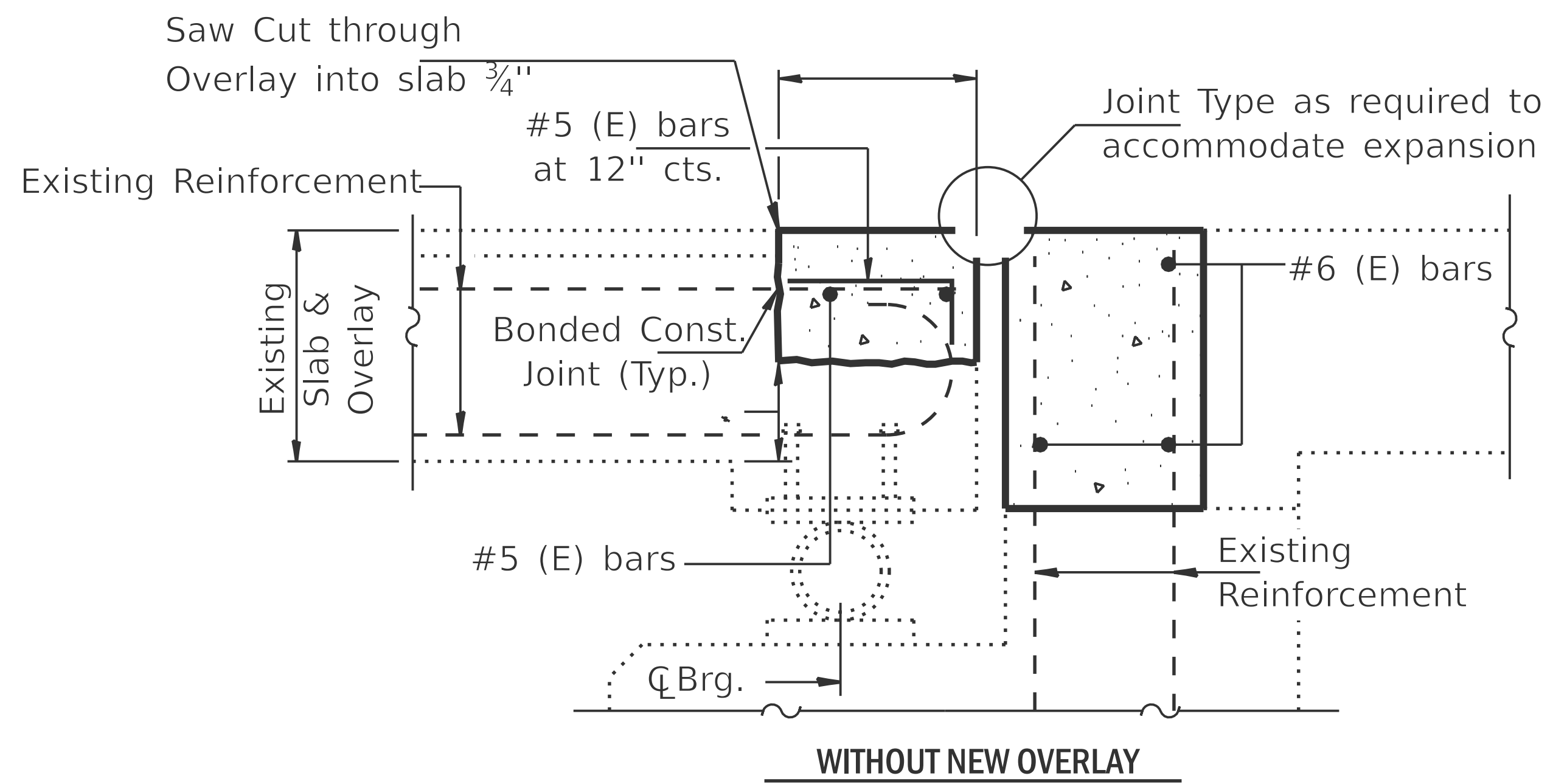
Note: Existing Reinforcement Bars shown are to be cleaned and incorporated into new construction.





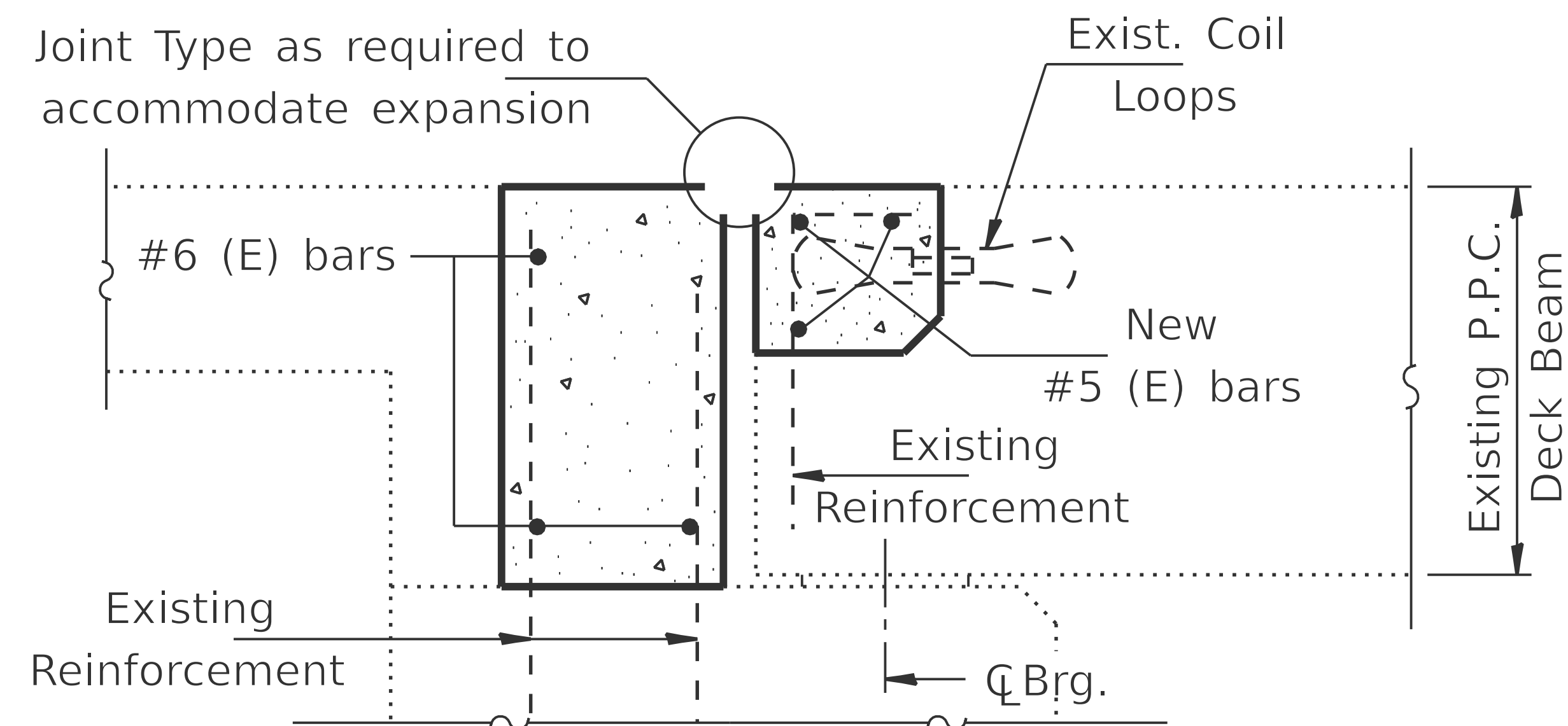
Note: Existing Reinforcement Bars shown are to be cleaned and incorporated into new construction.



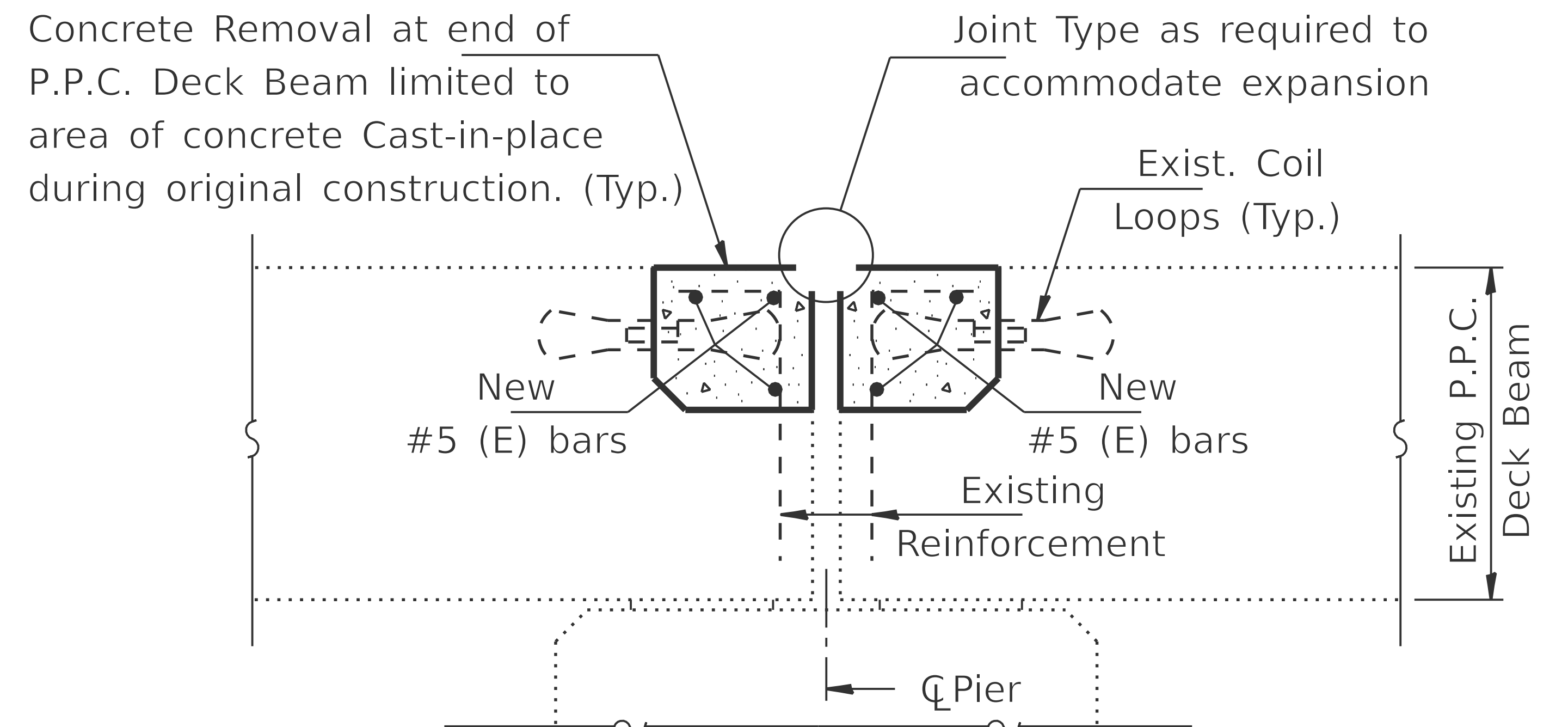


\* The complete replacement of the end of the slab and Temporary Shoring and Cribbing are required when the existing concrete is found to be unsound or analysis shows that remaining depth of slab is not adequate to carry loads during the joint replacement. See Figure 1.5.6-1.





### AT ABUTMENTS

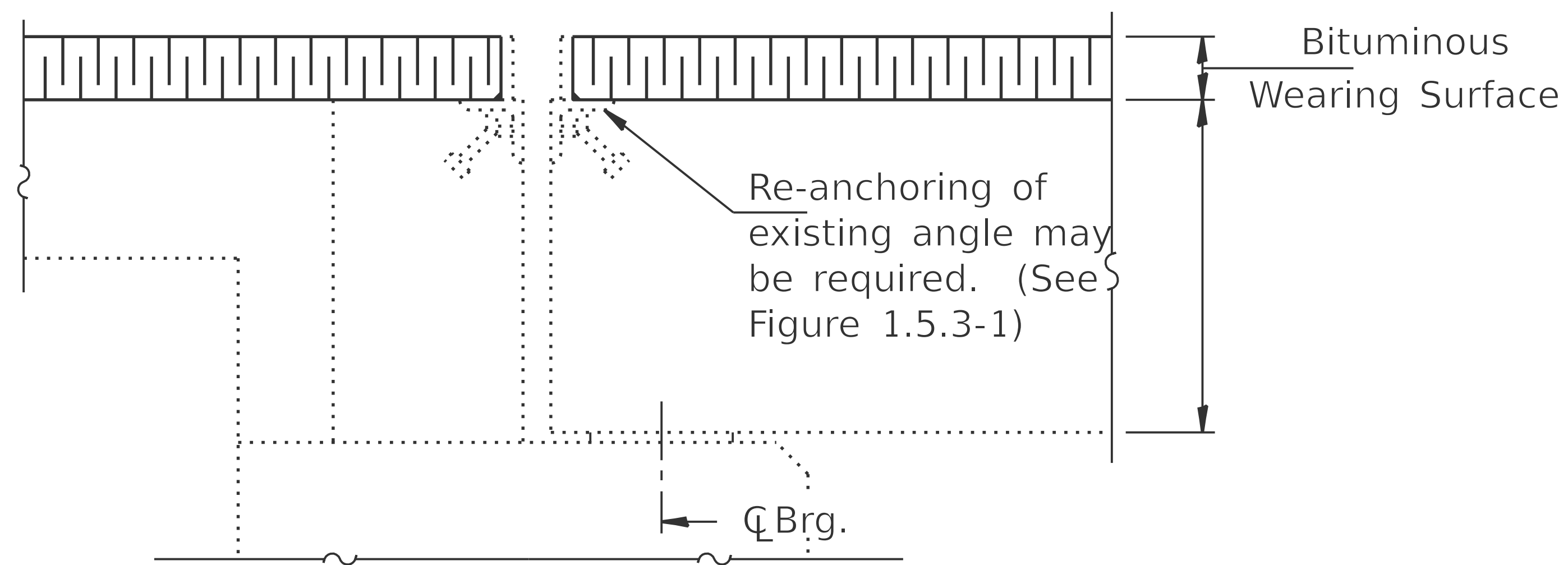


### AT PIERS

## REMOVAL & REPLACEMENT

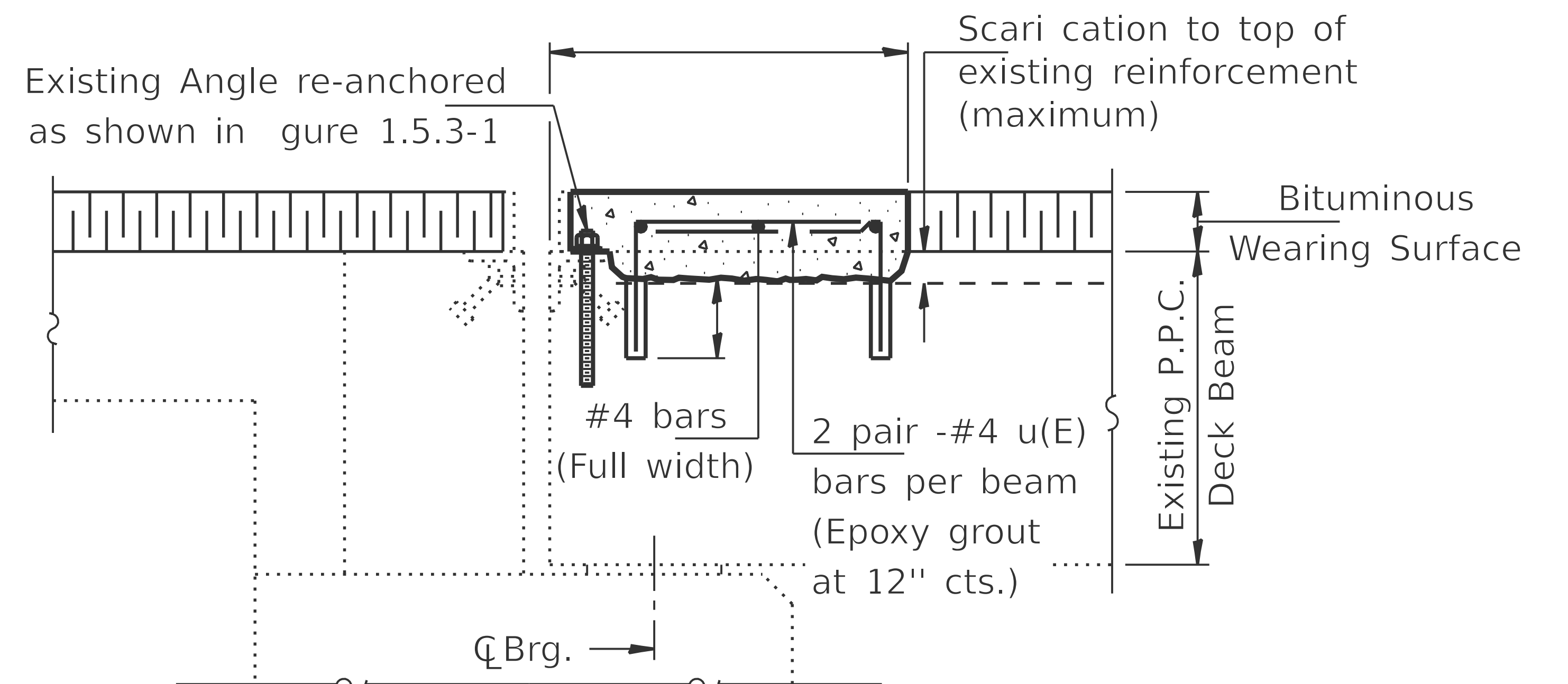
Note: Existing Reinforcement Bars and Coil Loops shown are to be cleaned and incorporated into new construction except as noted.





### AT ABUTMENTS

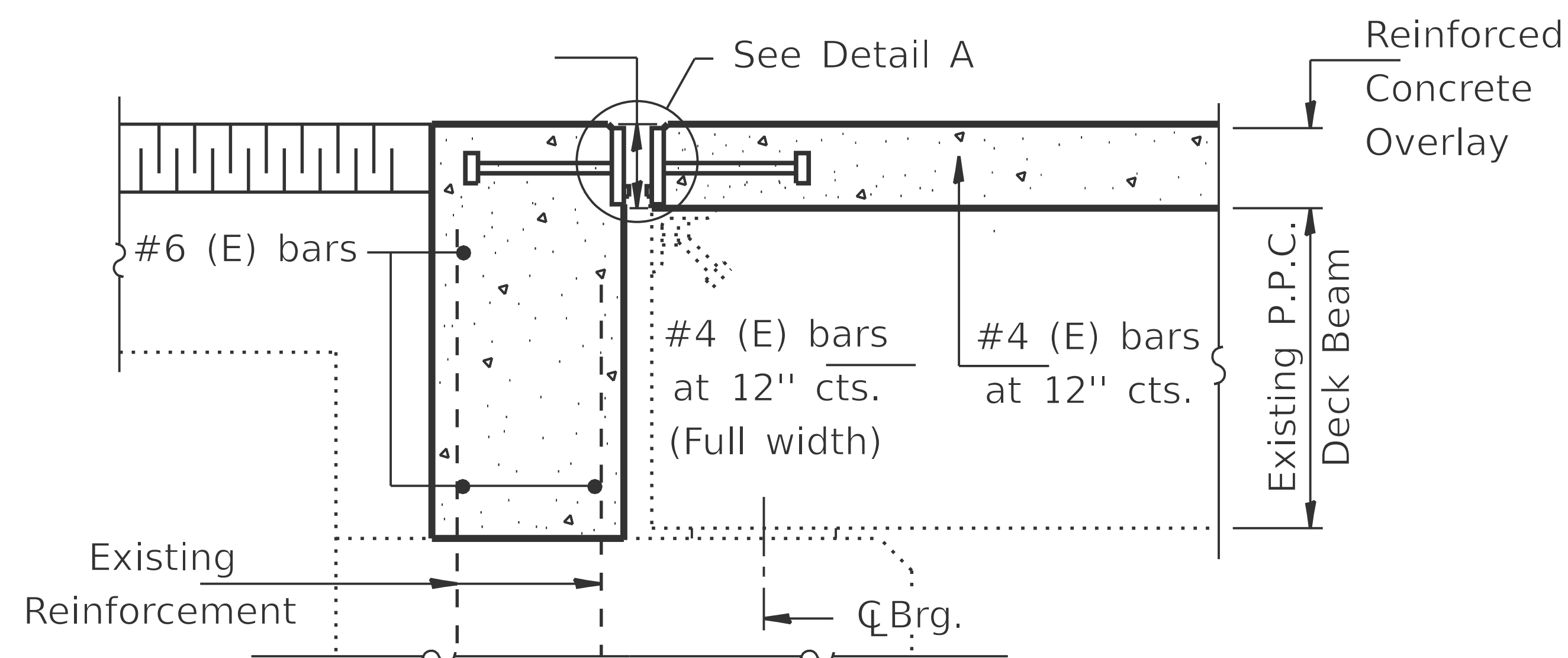
(When re-anchoring is not required)



### AT ABUTMENTS

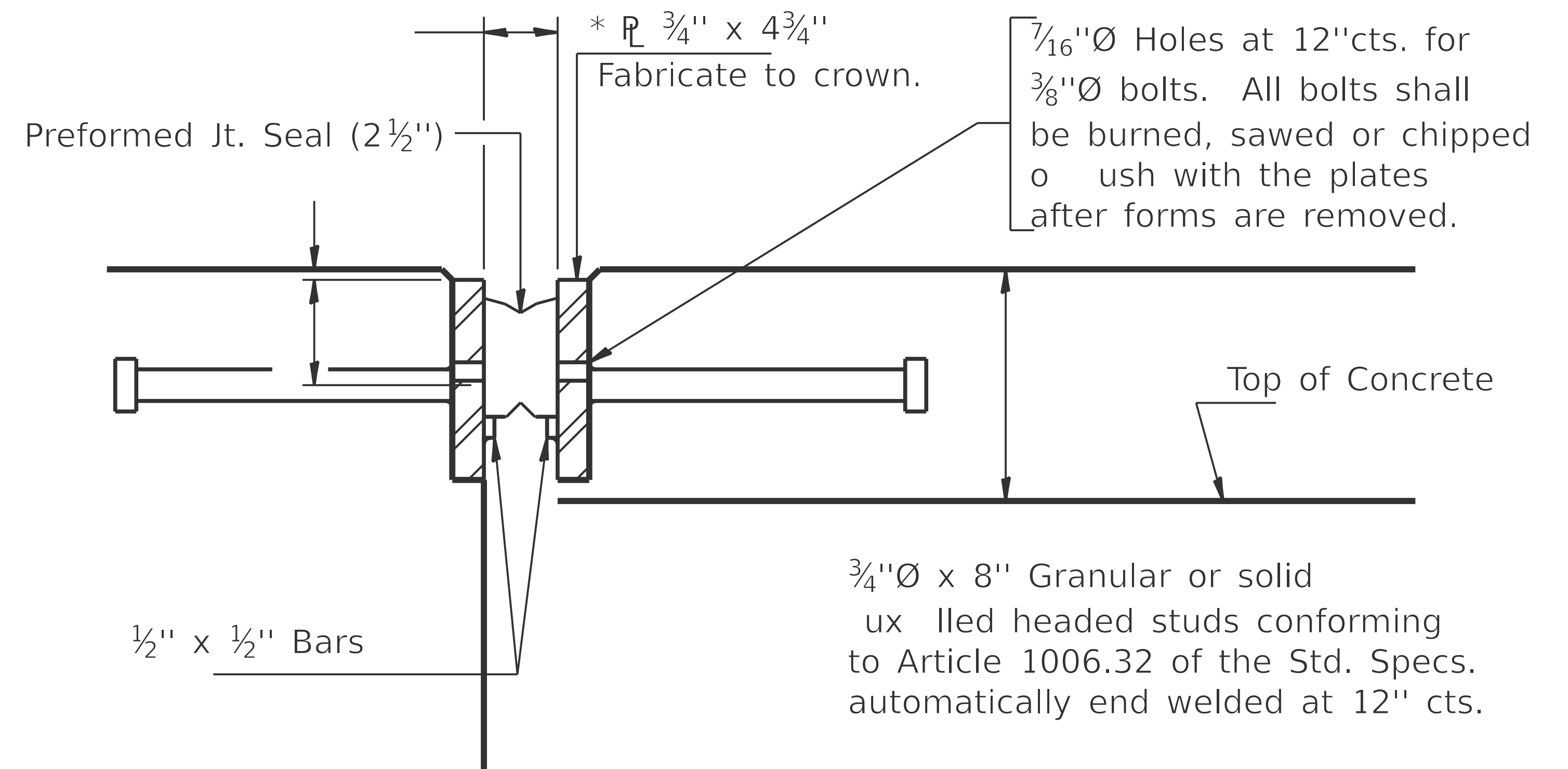
(When re-anchoring is required)





### SECTION AT ABUTMENT

Minimum bar lap for #4 bars = 1'-4"

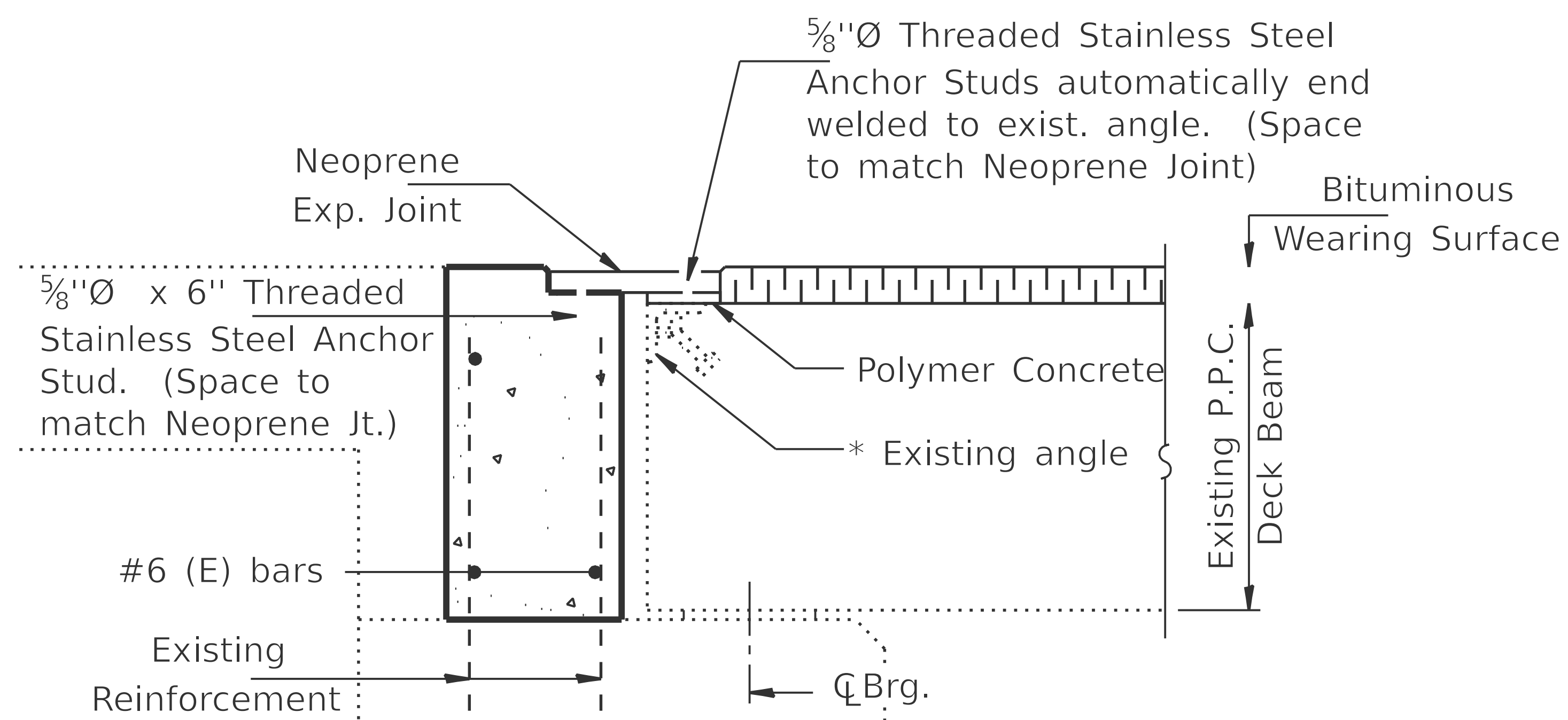


### DETAIL A

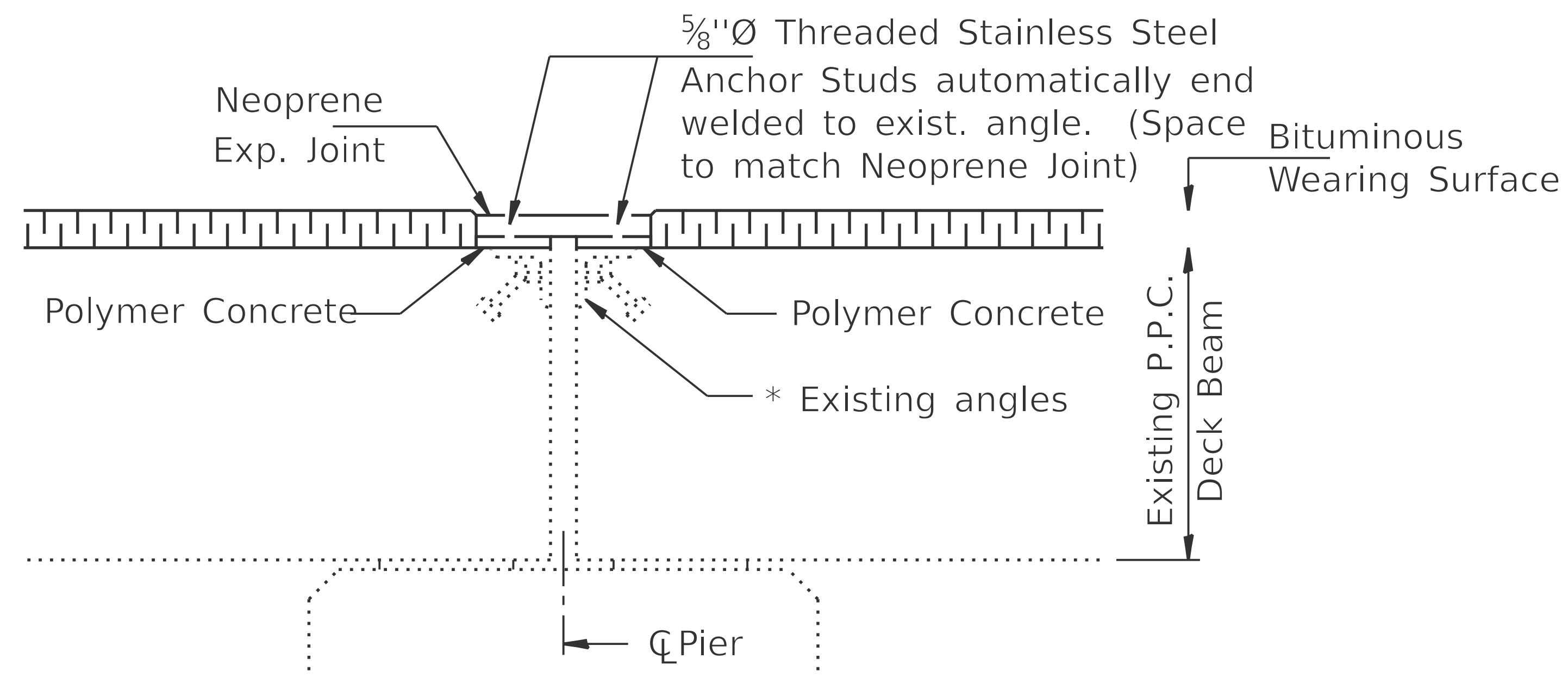
\* Furnish in segments of 20 ft. maximum length. Maximum space between installed segments shall be  $\frac{3}{16}$ ". Seal space with Silicone Sealant suitable for Structural Steel.

Note: After fabrication all surfaces of the steel plates shall be given one shop coat of paint speci ed for Structural Steel. No eld painting required.





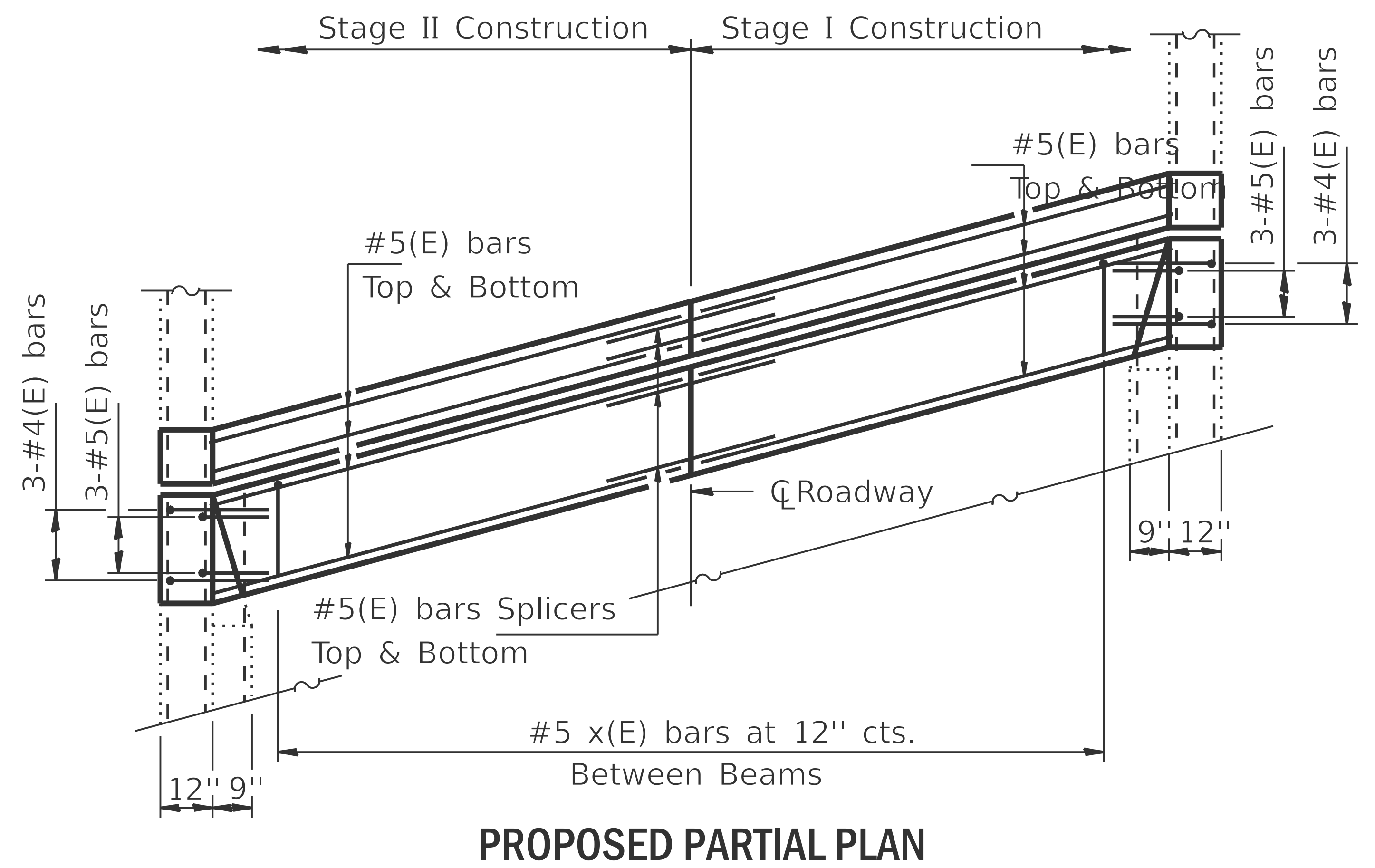
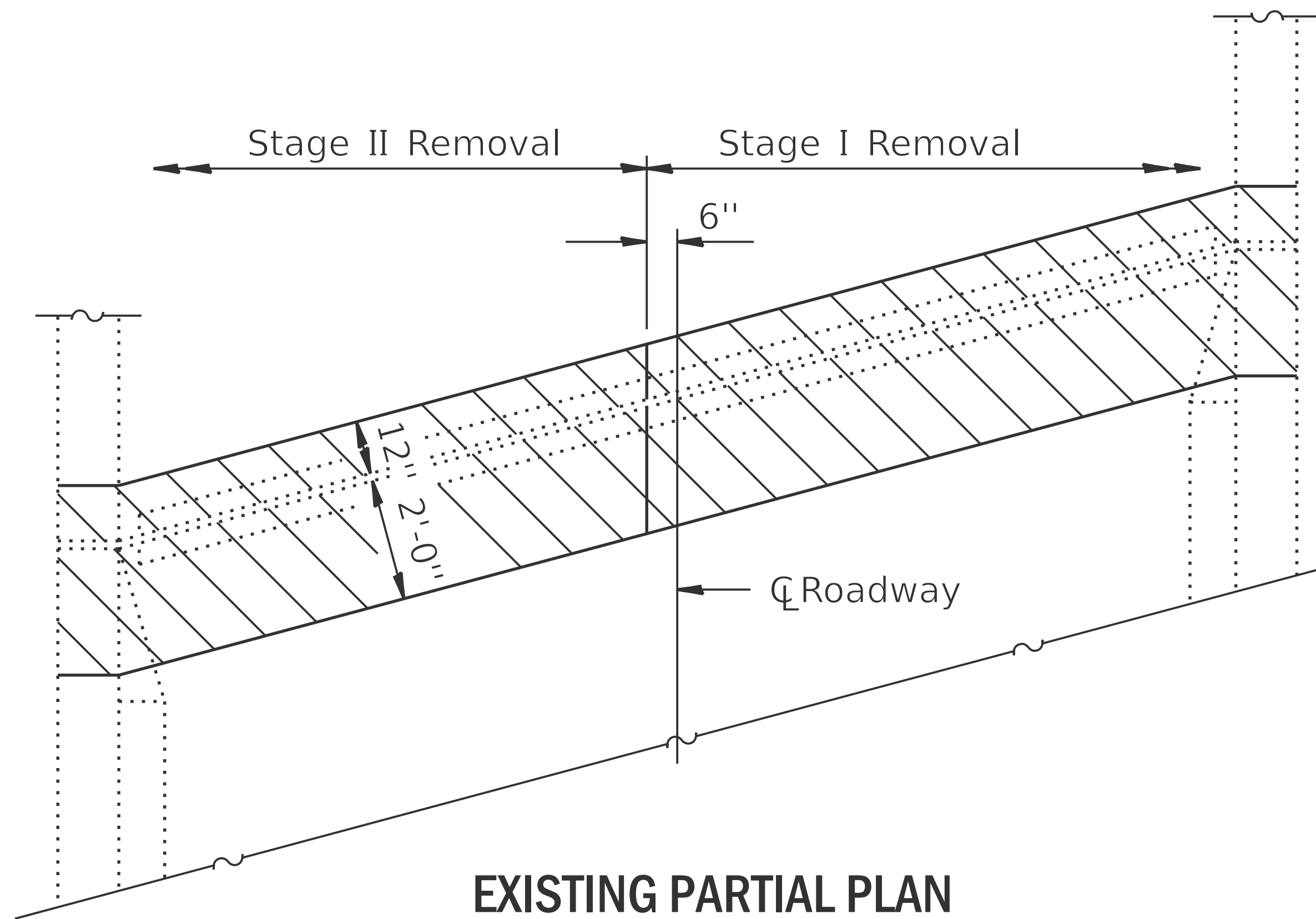
### AT ABUTMENTS



### AT PIERS

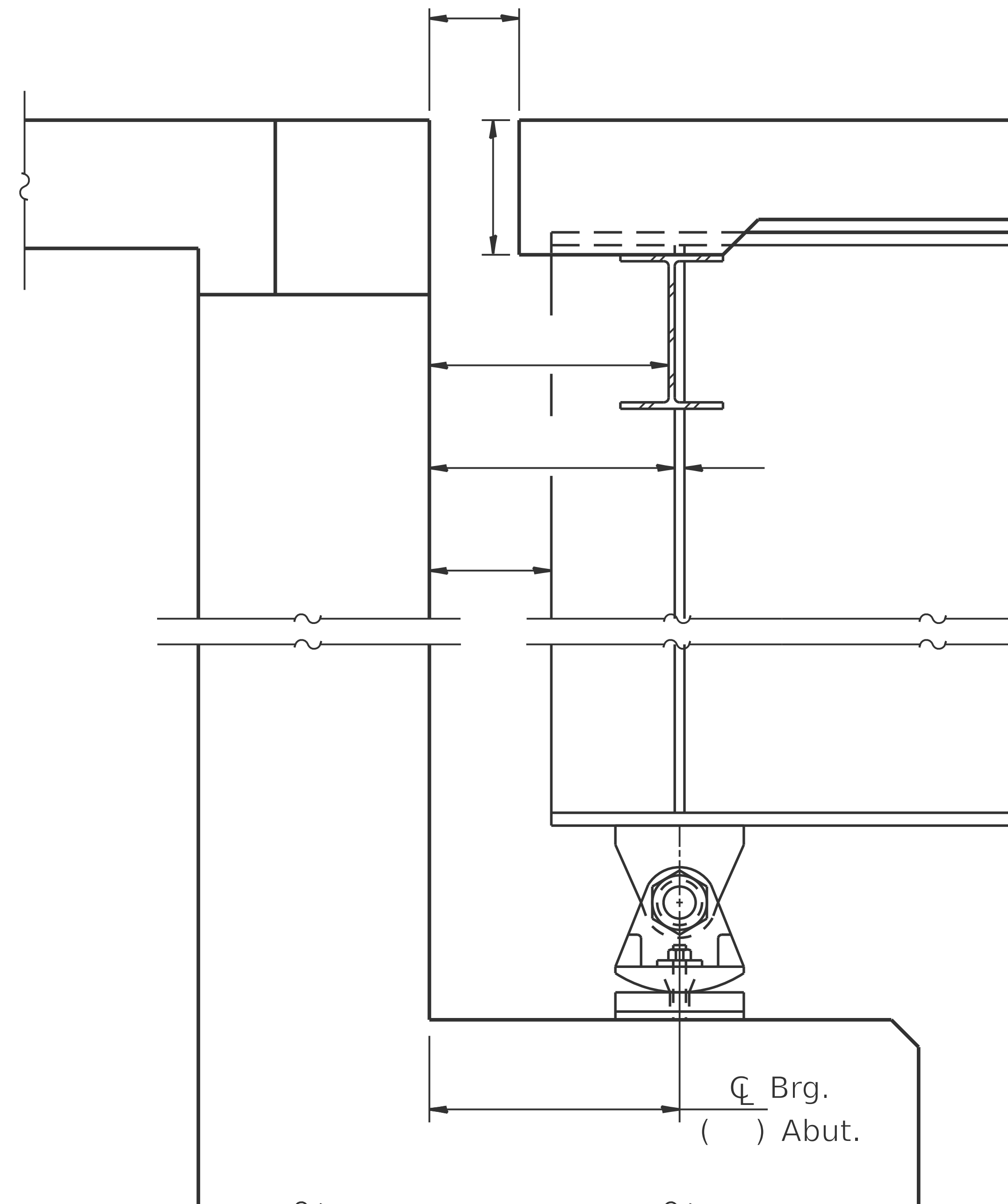
\* Re-anchoring of existing expansion angles may be required. See Figure 1.5.3-1, and space  $\frac{5}{8}$ " } Threaded Stainless Steel Anchor Rods to match the neoprene joint.





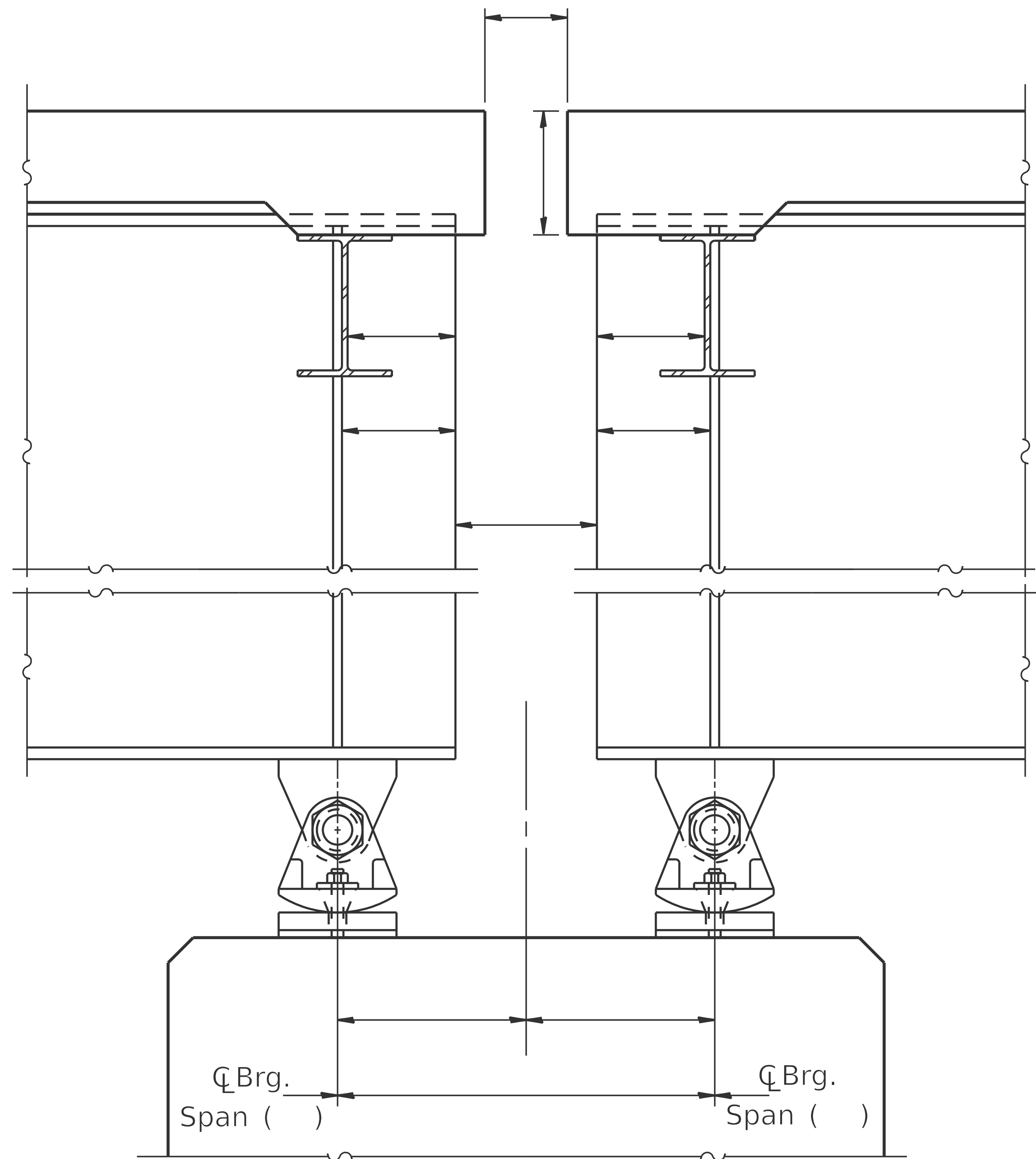


Date \_\_\_\_\_

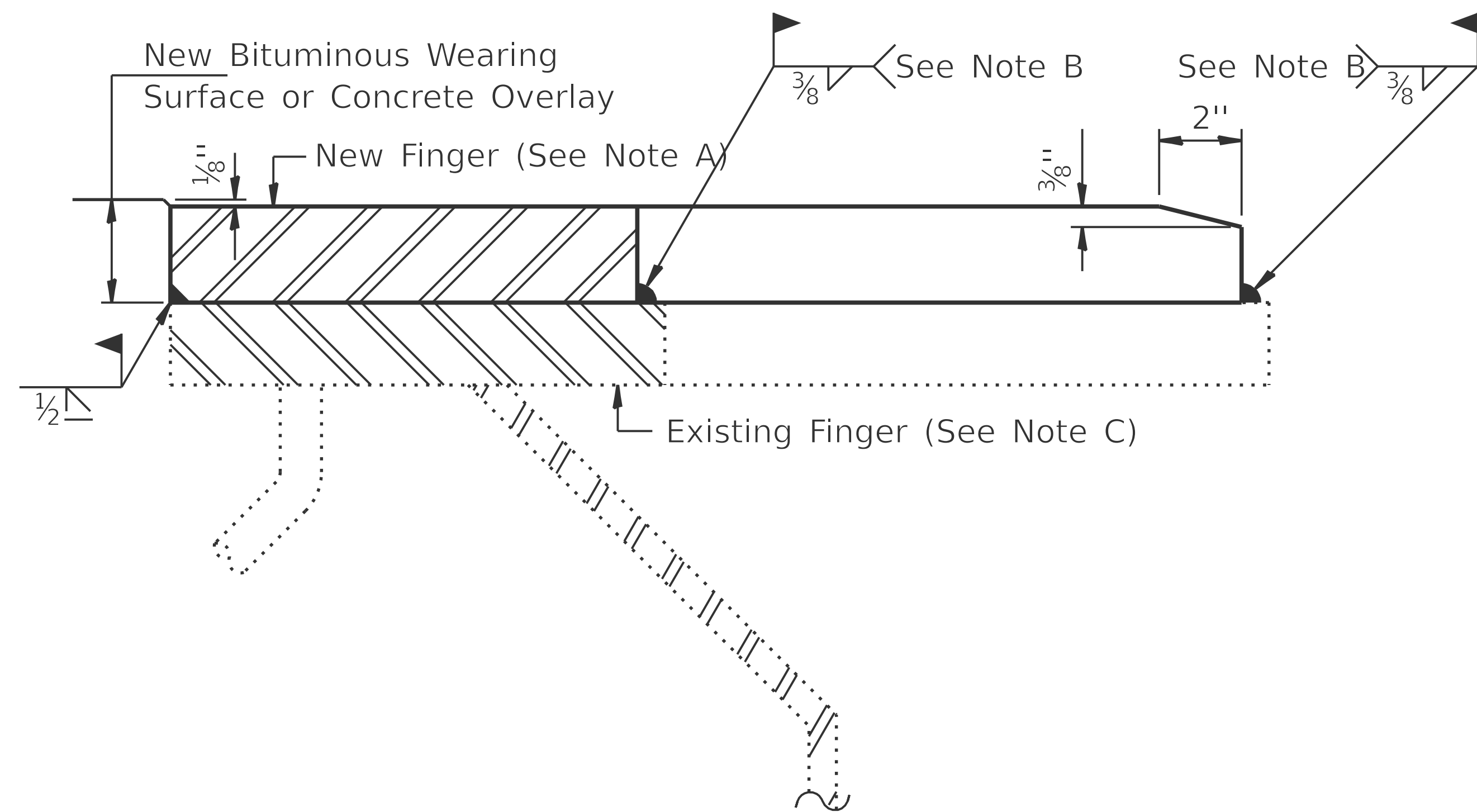




Structure No. \_\_\_\_\_  
Temperature \_\_\_\_\_  
Date \_\_\_\_\_







**SECTION A-A**

Note A:

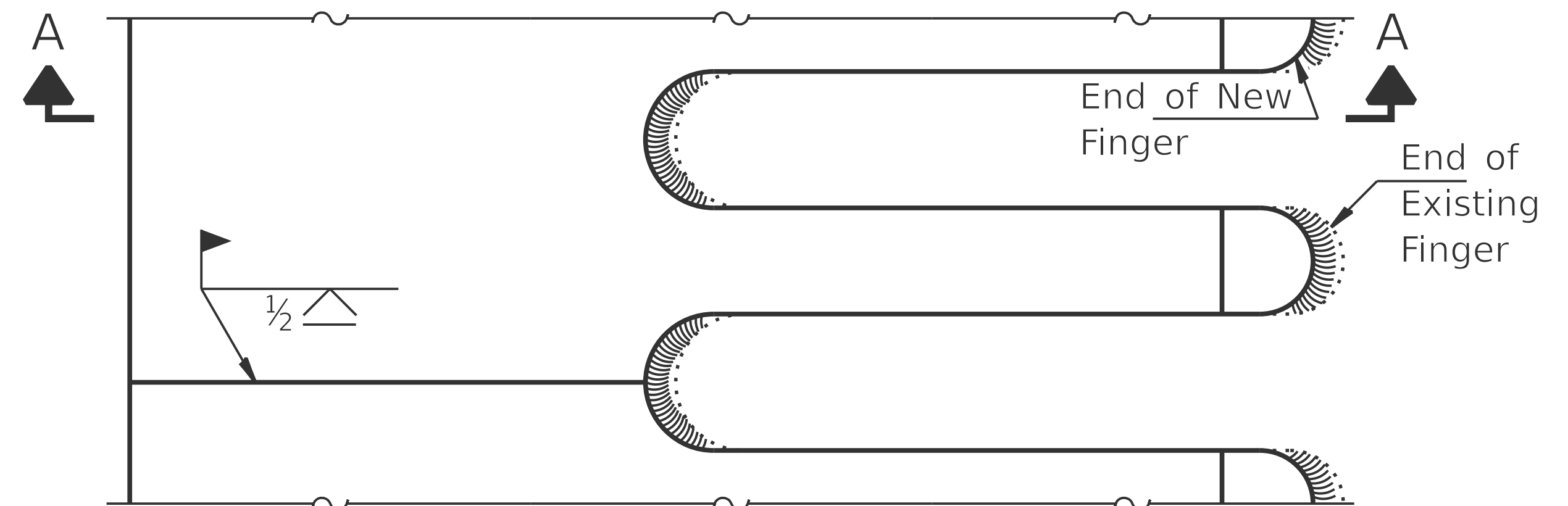
New Finger shall be blast cleaned to SSPC SP 10 and shop painted with the inorganic zinc rich primer.

Note B:

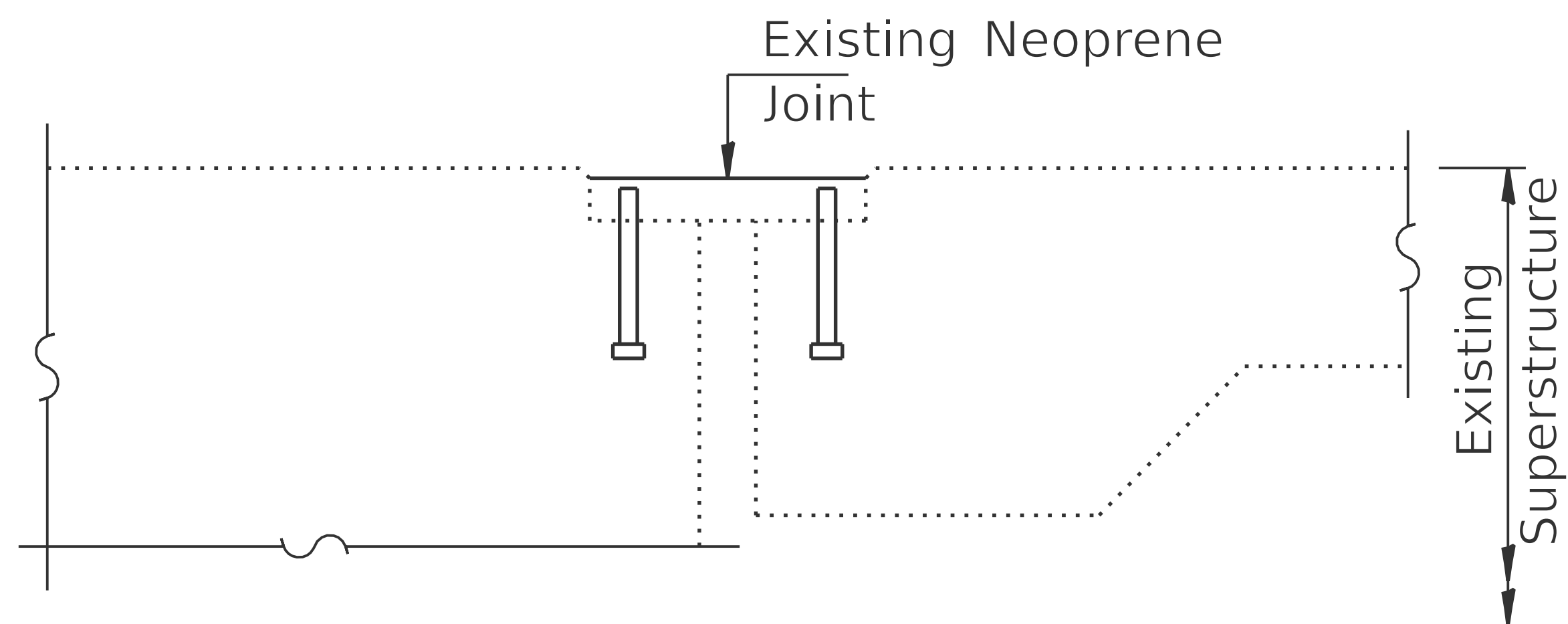
Fillet weld sizes at ends (tips) and crotches of ngers shall vary from  $\frac{3}{8}$ " near centers to  $\frac{3}{16}$ " minimum near edges as new and existing plates converge.

Note C:

Existing Finger widths and exact locations must be eld veri ed. A template shall be made to insure alignment. Remove foreign material that would prevent uniform contact between new and existing plates by method approved by the Engineer.

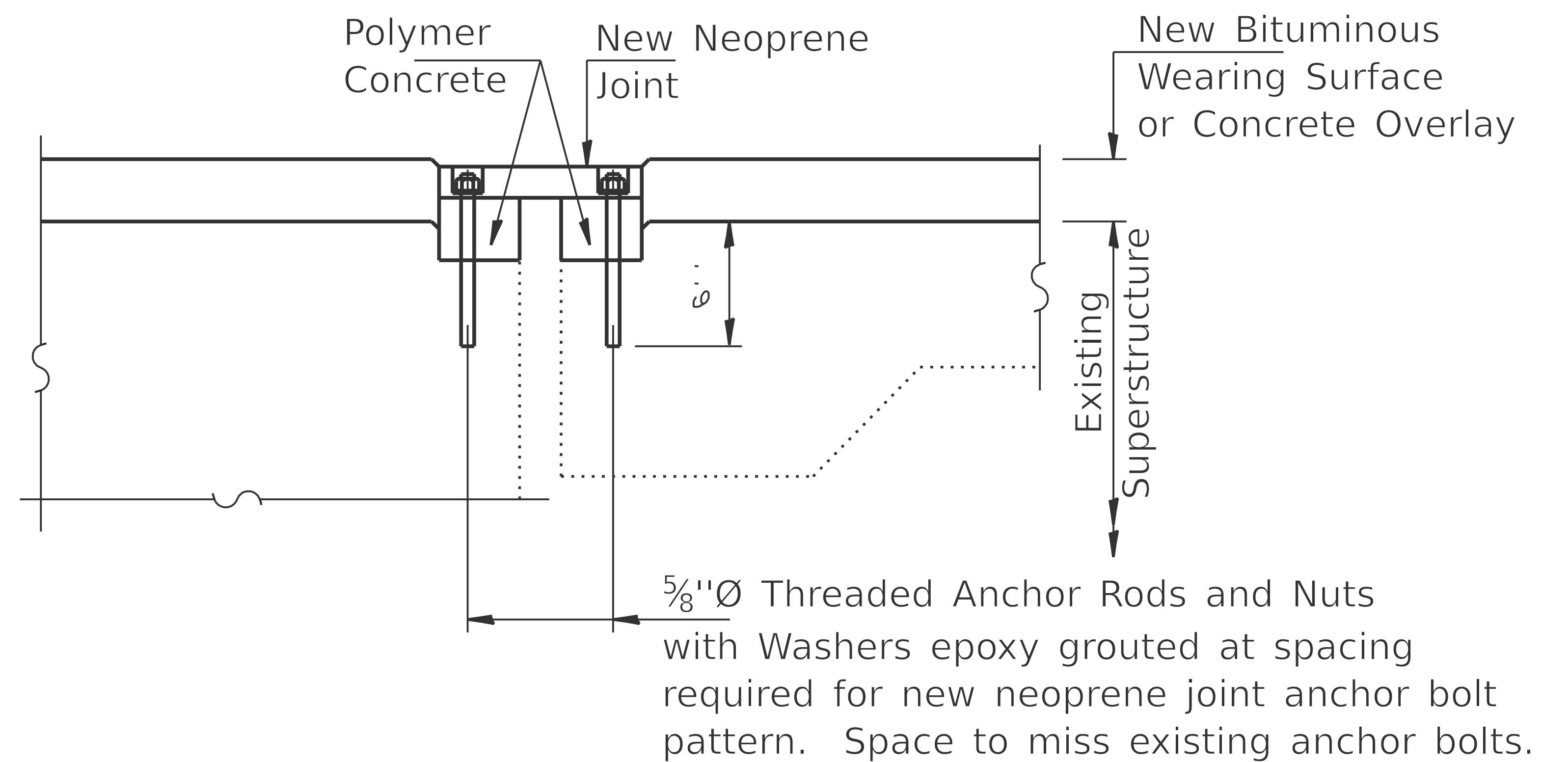






## **SECTION AT EXPANSION JOINT**

(Showing existing neoprene joint)



## **SECTION AT EXPANSION JOINT**

(Showing new neoprene joint)