

## STANDARD BAR SPLICER ASSEMBLY

|                           | Minim   | um Lap Leng | iths    |         |         |
|---------------------------|---------|-------------|---------|---------|---------|
| Bar size to<br>be spliced | Table 1 | Table 2     | Table 3 | Table 4 | Table 5 |
| 3, 4                      | 1'-5''  | 1'-11''     | 2'-1''  | 2'-4''  | 2'-3''  |
| 5                         | 1'-9''  | 2'-5''      | 2'-7''  | 2'-11'' | 2'-10'' |
| 6                         | 2'-1''  | 2'-11''     | 3'-1''  | 3'-6''  | 3'-4''  |
| 7                         | 2'-9''  | 3'-10''     | 4'-2''  | 4'-8''  | 4'-6''  |
| 8                         | 3'-8''  | 5'-1''      | 5'-5''  | 6'-2''  | 5'-10'' |
| 9                         | 4'-7''  | 6'-5''      | 6'-10'' | 7'-9''  | 7'-5''  |

Table 1: Black bar, 0.8 Class C

Table 2: Black bar, Top bar lap, 0.8 Class C

Table 3: Epoxy bar, 0.8 Class C

Table 4: Epoxy bar, Top bar lap, 0.8 Class C

Table 5: Epoxy bar, Top bar lap, Class B

Threaded splicer bar length = min. lap length +  $l_2^{\prime\prime}$  + thread length

\* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

| Location      | Bar<br>size | No. assemblies<br>required | Table for minimum<br>lap length |
|---------------|-------------|----------------------------|---------------------------------|
| North Footing | #5          | 16                         | Table 3                         |
| South Footing | #5          | 16                         | Table 3                         |
|               |             |                            |                                 |
|               |             |                            |                                 |
|               |             |                            |                                 |



## INSTALLATION AND SETTING METHODS

"A" : Set bar splicer assembly by means of a template bolt. "B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms. (E) : Indicates epoxy coating.



BAR SPLICER ASSEMBLY FOR #6 BAR FOR 3 SIDED CIP & PCC STRUCTURE

(Bend in field as required)

| No. | required | <br>54 |  |
|-----|----------|--------|--|



yield strength.

alternatives.

|   | DESIGNED - SLV             | REVISED -                 |   | BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS | F.A.P. SECTION         | COUNTY TOTAL SHEE  |            |
|---|----------------------------|---------------------------|---|---|------------------------|--------------------|------------|
| LOIO, IIC   | CHECKED - MJM              | REVISED -                 | STATE OF ILLINOIS<br>DEPARTMENT OF TRANSPORTATION | STATE OF ILLINOIS                                   | STRUCTURE NO. 099–0538 | 577 D-T            | WILL 44 28 |
| CONSULTING ENGINEERS<br>1560 WALL ST, SUITE 222                 | DRAWN - SLV                | REVISED -                 |   | 51RUCIURE NU. 099-0538                              | D-91-265-06            | CONTRACT NO. 60B10 |            |
| ILLE, ILLINOIS 60563 PH: (630) 577-9100 CHECKED - MJM REVISED - | SHEET NO. S9 OF S11 SHEETS | ILLINOIS FED. AID PROJECT |   |   |                        |                    |            |

|   | Mechanical<br>coupler (E)              |
|---|--|
| 844444444444444444444444444444444444444 | ······································ |
| Reinforcement bar _                     | \ Reinforcement bar                    |

## STANDARD MECHANICAL SPLICER

| Location | Bar<br>size | No. assemblies<br>required |
|----------|-------------|----------------------------|
|          |             |                            |
| 1        |             |                            |
|          |             |                            |

NOTES

Splicer bars shall be deformed with threaded ends and have a minimum 60 ksi

All reinforcement shall be lapped and tied to the splicer bars. Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 508 of the Standard Specifications.

See approved list of bar splicer assemblies and mechanical splicers for