

11-1-06

BSD-1

| ROUTE N               | 10. | SECTION          | cox      | INTY             | TOTAL<br>SHEETS | SHERT<br>NO. | SHEET NO. 26 |
|-----------------------|-----|------------------|----------|------------------|-----------------|--------------|--------------|
| F.A.I.                | 80  | 14BR &<br>14BR-1 | BUREAU   |                  | 219             | 98           | 32 sheets    |
| FED. ROAD DIST. NO. 7 |     |                  | ILLINGIS | PED. AD PROJECT- |                 |              |              |

Contract No. 66731

## NOTES

Bar splicer assemblies shall be of an approved type and shall develop in tension at least 125 percent of the yield strength of the lapped reinforcement bars. Splicer rods shall be of minimum 60 ksi yield strength, threaded or coiled full length. All reinforcement bars shall be lapped and tied to the splicer rods or dowel bars. Bar splicer assemblies shall be epoxy coated according to the requirements for

Other systems of similar design may be submitted to the Engineer for approval. Approval shall be based on certified test results from an approved testing laboratory that the proposed

Where fy = Yield strength of lapped reinforcement bars in ksi.

| BAR SPLICER ASSEMBLIES            |                       |  |  |  |  |  |  |
|-----------------------------------|-----------------------|--|--|--|--|--|--|
|                                   | Strength Requirements |  |  |  |  |  |  |
| Splicer Rod or<br>owel Bar Length |                       | Min. Pull-Out Strength<br>kips - tension |  |  |  |  |  |
| 1'-8''                            | 14.7                  | 7.9                                      |  |  |  |  |  |
| 2'-0''                            | 23.0                  | 12.3                                     |  |  |  |  |  |
| 2'-7''                            | 33.1                  | 17.4                                     |  |  |  |  |  |
| 3'-5''                            | 45.1                  | 23.8                                     |  |  |  |  |  |
| 4'-6''                            | 58.9                  | 31.3                                     |  |  |  |  |  |
| 5′-9′′                            | 75.0                  | 39.6                                     |  |  |  |  |  |
| 7'-3''                            | 95.0                  | 50.3                                     |  |  |  |  |  |
| 9'-0''                            | 117.4                 | 61.8                                     |  |  |  |  |  |

| struction             | 1                          | Construction Line<br>Stage II Construction                 |  |  |  |  |
|-----------------------|----------------------------|--|--|--|--|--|
| or Coil<br>Iplers (E) |                            | Threaded or Coil<br>Splicer Rods (E)                       | Reinforcement<br>Bars  |  |  |  |
| Bar<br>Size           | No. Assemblies<br>Required | Location   |  |  |  |  |
|                       | <u>F.A.</u>                | I. RTE. 80 -<br><u>BURE</u><br><u>STATIO</u><br>TRUCTURE I | ASSEMBLY DETAILS<br>SEC. 14BR & 14BR-1<br>AU COUNTY<br>N 400+22.07<br>NO. 006-0165 (E.B.)<br>NO. 006-0166 (W.B.) |  |  |  |