

| F.A.I. RTE. | SECTION | COUN | TΥ | TOTAL SHEETS | SHEET NO. |
|----------------|--------------|----------|------|-----------------|--------------|
| 80/94 | * | COOK | | 631 | 355 |
| S⊤A, | | TO STA. | | | |
| FED. RO | AD DIST. NO. | ILLINOIS | FED. | AID PROJ | ECT |
| • (2425 | & 2626) R-2 | | CONT | RACT NO. | 62111 |

<u>NOTES</u>

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 400 MPa yield strength, threaded or colled full length. All reinforcement bars shall be lapped and tied to the splicer rods or dowel bars.

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 bar splicer assembly satisfies the following requirements:

(1) ension in KNy
Where fy = Yield strength of lapped reinforcement bars in MPa.
fs_{allow} = Allowable tensile stress in lapped reinforcement bars in MPa (Service Load)
A₁ = Tensile stress area of lapped reinforcement bars (mm²).
* = 28 day concrete

| BAR SPLIC | ER ASSEMBLI | EŜ | |
|------------------------------------|-------------------------------|--|--|
| | Strength Requirements | | |
| Splicer Rod or Dowel Bar Length | Min. Capacity kN - tension | Min. Pull-Out Strength kN - tension | |
| 640 mm | 100 | 40 | |
| 790 mm | 150 | 60 | |
| 1.32 m | 250 | 100 | |
| 1.85 m | 350 | 140 | |

Bar splicer assemblies shall be according to Section 508 of the Standard Specifications, except as noted. The furnishing and installation of bar splicer assemblies will be measured and paid for at the contrast unit price each for "BAR SPLICERS." All dimensions in millimeters (mm) except as noted.

| | | | Construction Line Note 1 | |
|--|-------------|---|---|---|
| Threaded or Coll Three Loop Couplers (E) Splice | | | hreaded or <u>Coil</u> <u>Reint</u> plicer Rods (E) <u>Bars</u> | orcement |
| | | 40 ci. | <u>D</u> | |
| | Bar | No. Assemblies | Location | |
| | Size #20 | Required 34* | Wall Footing Sta. 83+134.3 | |
| | #20 | 42** | Wall Footing Sta. 83+680. | |
| RMAT Y | ION | previous co of the Depo the Enginee splicer rods | s were paid for and the couple ntract. The splicer rods are in artment. The Contractor shall o r and install them under this o including cleaning of coupler with Concrete Structures. | storage under ownership btain the splicer rods from contract. Installation of the |
| | | | | 2626) R-1 AND (2425 & 2626) R-2 |
| SHT. RW850-50 OF 58 REVISIONS NAME DATE | | F.A.I. ROUTE 80/ EB & WB INSIDE LAN RETAINING WALL SEC CO | ENT OF TRANSPORTATION 94 (KINGERY EXPRESSWAY) 95 (MAINLINE) CONSTRUCTION STRUCTURE NO. 016-W850 TITIONS *** 0K COUNTY ICER DETAILS | |
| | | | | DRAWN BY: |
| | | | DATE: 7/18/2005 | CHECKED BY: MJK TENG & ASSOCIATES, INC. ENGINEERS/ARCHTECTS/PLANNERS CHICAGO, ILLINOIS |
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