CONTRACT NO. 68114

| RTE.    | SECTION      | (        | COUNT | Y   | SHEETS  | SHEE<br>NO. |  |  |
|---------|--------------|----------|-------|-----|---------|-------------|--|--|
| 22      | 135W-2: R    | S-5      | FULT  | NC  | 282     | 16-         |  |  |
| STA.    |              | то       | STA.  |     |         |             |  |  |
| FED. RO | AD DIST. NO. | ILLINOIS | FED.  | AID | PROJECT | •           |  |  |

EXIST. CULV.

min. splice

A

100(4)

A

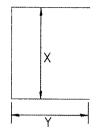
200(8)

EXPANSION

BOLTS

PROP. EXTENSION

250 (i0) 200(8) 415(#4) BARS EVENLY SPACED



#I5(#4) BAR FIVE REQUIRED PER COLLAR

 $D = \frac{200(8) + T}{\cos \theta}$ 

 $E = [W+410(16)+2T]+an\theta+250(10)$ 

X = B-200(8)

 $Y = \frac{W/2 + T + 100(4)}{\cos \theta} + 190(7\frac{1}{2})$ 

SECTION A - A

END VIEW

PLAN VIEW

|          |      |                      |    |                      |   |                             |             |   | EACH COLLAR |                              |             |                    |               |      |     |   |   |
|----------|------|----------------------|----|----------------------|---|-----------------------------|-------------|---|-------------|------------------------------|-------------|--------------------|---------------|------|-----|---|---|
| LOCATION | EXIS | EXIST. BOX PROP. BOX |    | CLASS SI CONCRETE M3 |   |                             |             |   | REBARS      | M20(¾)<br>EXPANSION<br>BOLTS | EXT. LENGTH |                    | FND           | SKEW |     |   |   |
|          | W    | Н                    | W′ | H′                   | Т | m <sup>3</sup><br>(CU. YD.) | A           | В | E           | х                            | Y           | REBARS<br>KG(LBS.) | BOLTS<br>EACH | LT.  | RT. | END<br>SEC.                             | 6 |
|          |      |                      |    |                      |   |                             |             |   |             |                              |             |                    |               |      |     |   |   |
|          |      |                      |    |                      |   |                             |             |   |             |                              |             |                    |               |      |     |   |   |
|          |      |                      |    |                      |   |                             | <del></del> |   |             |                              |             |                    |               |      |     | *************************************** |   |
|          |      |                      |    |                      |   |                             |             |   |             |                              |             |                    |               |      |     |   |   |
|          |      |                      |    |                      |   |                             |             |   |             |                              |             |                    |               |      |     |   |   |
|          |      |                      |    |                      |   |                             |             |   |             |                              |             |                    |               |      |     | ~~~                                     |   |
|          |      |                      |    |                      |   |                             |             |   | <b>*</b>    |                              |             |                    |               |      |     |   |   |
|          |      |                      |    |                      |   |                             |             |   |             |                              |             |                    |               |      |     |   |   |
|          |      |                      |    |                      |   |                             |             |   |             |                              |             |                    |               |      |     |   |   |

GENERAL NOTES

## 

1. The collar shall be constructed entirely of CLASS SI CONCRETE and in accordance with the applicable portions of section 503 of the Standard Specifications. Reinforcement

bars shall conform to section 508.

 Expansion bolts shall consist of approved expansion anchors, and M20(¾) hook bolts which conform to section 1006.08. These bolts shall extend at least 200(8) into the new concrete. All dimensions are in millimeters (inches) unless otherwise noted.

ILLINOIS DEPARTMENT OF TRANSPORTATION
DISTRICT CADD STANDARD

PRECAST SKEWED BOX CULVERT EXTENSION COLLAR

CADD STD. NO. 540106-D4 SCALE: NOT DRAWN TO SCALE

DATE REVISIONS
1-1-97 RENUM. J-12.06, NEW REVISION BOX,
REVISED TITLE BOX, ADDED QUANTITY

DRAWN BY CADD CHECKED BY