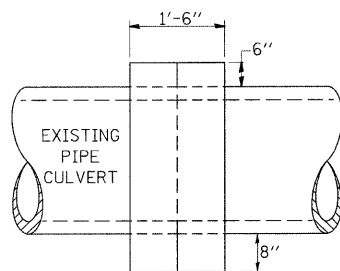
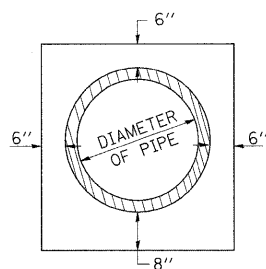


DETAILS OF CONCRETE COLLAR

PIPE TO PIPE



SIDE VIEW



END VIEW

TABULATION

| DIAMETER OF PIPE | CL SI CONC CU YDS EST |
|------------------|-----------------------|
| 12" | 0.24 |
| 15" | 0.29 |
| 18" | 0.32 |
| 24" | 0.44 |
| 30" | 0.56 |
| 36" | 0.66 |
| 42" | 0.80 |
| 48" | 0.93 |
| 54" | 1.07 |
| 60" | 1.22 |
| 72" | 1.55 |

THE CONCRETE COLLAR SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER CUBIC YARD FOR **CONCRETE COLLAR**, AS SHOWN ON THE PLANS, WHICH PRICE SHALL INCLUDE THE REMOVAL OF SUCH PORTIONS THE EXISTING HEADWALLS AS MAY BE REQUIRED.

CLASS SI CONCRETE SHALL BE USED THROUGHOUT.

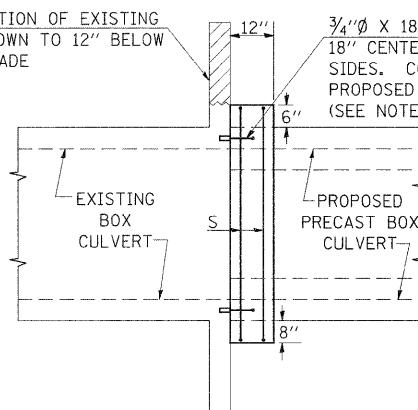
| REVISIONS | |
|-----------|---------|
| DRAWN | 7-13-90 |
| REVISED | 8-22-94 |
| REVISED | 3-26-08 |
| REVISED | |

STD. 9-79

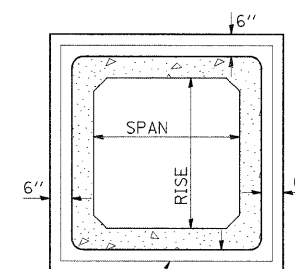
DETAILS OF CONCRETE COLLAR FOR PRECAST BOX CULVERT

REMOVE PORTION OF EXISTING HEADWALL DOWN TO 12" BELOW FINISHED GRADE

3/4" Ø X 18" EXPANSION BOLTS AT 18" CENTERS TYPICAL ALL FOUR SIDES. COST INCLUDED IN THE PROPOSED PRECAST BOX CULVERT. (SEE NOTE BELOW)



SIDE VIEW



2 - #5 S BARS TYPICAL
COST INCLUDED IN THE PROPOSED PRECAST BOX CULVERT.

END VIEW

TABULATION

(FOR INFORMATION PURPOSES ONLY)

| SPAN X RISE | CLASS SI CONC. CU. YD. (EST.) |
|-------------|-------------------------------|
| 2' X 2' | 0.26 |
| 3' X 2' | 0.30 |
| 3' X 3' | 0.34 |
| 4' X 2' | 0.36 |
| 4' X 3' | 0.39 |
| 4' X 4' | 0.43 |
| 5' X 2' | 0.41 |
| 5' X 3' | 0.45 |
| 5' X 4' | 0.49 |
| 6' X 2' | 0.47 |
| 6' X 3' | 0.51 |
| 6' X 4' | 0.54 |

THE CONCRETE COLLAR SHALL BE CONSIDERED INCLUDED IN **PRECAST CONCRETE BOX CULVERT**, WHICH PRICE SHALL INCLUDE THE REMOVAL OF SUCH PORTIONS OF THE EXISTING HEADWALLS AS MAY BE REQUIRED. CLASS SI CONCRETE SHALL BE USED THROUGHOUT.

NOTE:

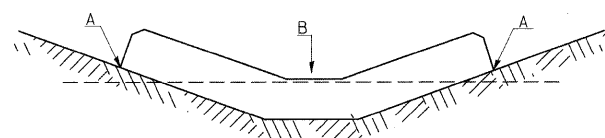
ANCHOR BOLTS, MEETING THE REQUIREMENTS OF ARTICLE 1006.09 OF THE STANDARD SPECIFICATIONS, SHALL EXTEND A MINIMUM OF 9 INCHES INTO THE NEW CONCRETE. EXPANSION SHIELDS SHALL PROVIDE A MINIMUM CERTIFIED PROOF LOAD OF 4080 POUNDS.

| REVISIONS | | | |
|-----------|---------|---------|----------|
| DRAWN | 8-15-89 | REVISED | 12-17-01 |
| REVISED | 2-15-90 | REVISED | 3-26-08 |
| REVISED | 8-10-90 | REVISED | |
| REVISED | 8-19-94 | REVISED | |

STD. 9-45

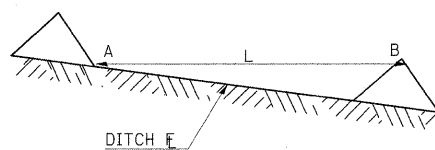
TEMPORARY DITCH CHECKS

PLACEMENT OF TEMPORARY DITCH CHECK IN DRAINAGE WAY



POINTS A SHOULD BE HIGHER THAN POINT B

SPACING BETWEEN TEMPORARY DITCH CHECKS



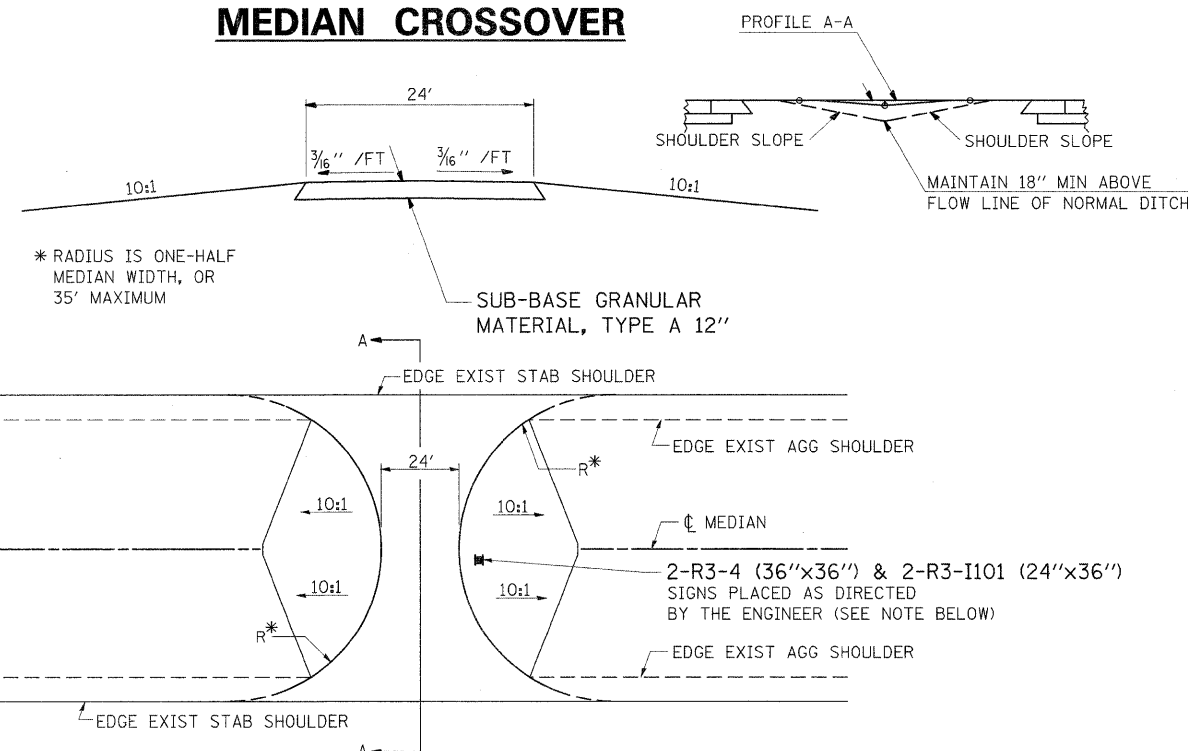
L = THE DISTANCE SUCH THAT POINTS A AND B ARE OF EQUAL ELEVATION

B = THE LOW POINT IN CENTER OF CHECK

| REVISIONS | |
|-----------|----------|
| DRAWN | 9-01-99 |
| REVISED | 10-3-01 |
| RESIZED | 5-8-08 |
| REVISED | 05-04-10 |

STD. 9-108

DETAIL OF PROPOSED EMERGENCY MEDIAN CROSSOVER



TO BE USED:

- 665+50
- 673+00
- 683+50
- 691+80
- 704+00
- 721+50
- 737+50
- 749+30
- 761+45
- 776+40
- 785+75
- 801+00

NOTE:

THE PROPOSED CROSSOVER SURFACE SHALL BE BUTTED TO THE EDGE OF THE EXISTING STABILIZED SHOULDER.

NOTE:

THE SIGN ASSEMBLY FOR EACH LOCATION SHALL BE INCLUDED IN THE COST OF AGGREGATE SHOULDERS, TYPE A 8"

| | | | | | | | | | | | |
|---|---------------------|------------|-----------|---|--|---------------------------|---------|-----------|--------------|-----------|--|
| FILE NAME = | USER NAME = rollavr | DESIGNED - | REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | CONCRETE COLLAR PIPE TO PIPE, CONCRETE COLLAR FOR PRECAST BOX CULVERT, TEMP DITCH CHECKS, AND PROPOSED EMERGENCY MEDIAN CROSSOVER DETAILS | F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. | |
| ct:\pw\work\p\dot\rollavr\0169788\78172 | sht_masc.dgn | DRAWN - | REVISED - | | | 57 | | Jefferson | 422 | 155 | |
| PLOT SCALE = 50.0000' / IN. | | CHECKED - | REVISED - | | | CONTRACT NO. 78172 | | | | | |
| PLOT DATE = 2/22/2011 | | DATE - | REVISED - | | | ILLINOIS FED. AID PROJECT | | | | | |

(41-2-1,41-3,41-3-1)R-1