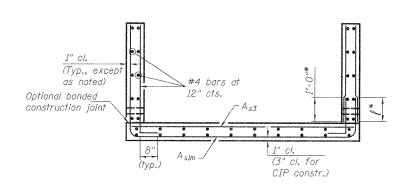
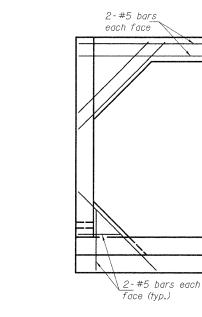
#4 bar = 1′-5" #5 bar = 1′-9"

#6 bar = 2'-1''

\* The Contractor may use lap splices for the sidewall reinforcement at the locations shown. Lap splice locations shall be detailed in the shop drawings.

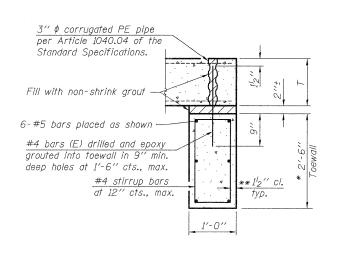


SECTION C-C



<u>SECTION B-B</u>
(Showing backwall reinforcement only.)

(Pipe omitted for clarity.)



 $B \blacktriangleleft_1$ 

## SECTION D-D

## TOEWALL CONSTRUCTION SEQUENCE

#4 bars at 12" cts.

LONGITUDINAL SECTION

(Showing bottom slab and backwall reinforcement.)

- Perform excavation and construct toewall.
   Backfill accordingly and place bedding for
- precast culvert end sections.

  3. Set precast culvert end sections in place.
- 4. Drill and epoxy grout reinforcement in toewall according to Section 584 of the Standard Specifications.
- 5. Pressure grout voids using non-shrink grout conforming to Section 1024 of the Standard Specifications.
- \* The Contractor may furnish a precast or cast-in-place toewall. The Contractor shall be responsible for the strength and stability of the precast toewall during handling. Additional lifting points may be required depending upon the length of the toewall or the Contractor may need to modify the design of the toewall for the proposed handling the method.
- \*\* If soil conditions permit, the sides of the toewall may be poured directly against the soil. The clear cover on the sides of the toewall shall be increased to 3" by increasing the thickness of the toewall.

## REINFORCEMENT SCHEDULE

|           | A sim    |             | A <sub>s3</sub> |             |
|-----------|----------|-------------|-----------------|-------------|
| Pipe I.D. | Bar Size | Bar Spacing | Bar Size        | Bar Spacing |
| 42"       | 4        | 12"         | 4               | 12"         |
| 48"       | 4        | 8"          | 4               | 12"         |
| 54"       | 5        | 8"          | 4               | 12"         |
| 60"       | 5        | 8"          | 4               | 12"         |
| 66"       | 5        | 8"          | 4               | 12"         |
| 72"       | 5        | 8"          | 4               | 12"         |
| 78"       | 6        | 8"          | 4               | 12"         |
| 84"       | 6        | 8"          | 4               | 12"         |
|           |          |             |                 |             |
|           |          |             |                 |             |

6-28-11

FILE NAME =

| USER NAME =  | DESIGNED - | REVISED - |
|--------------|------------|-----------|
|              | CHECKED -  | REVISED - |
| PLOT SCALE = | DRAWN -    | REVISED - |
| PLOT DATE =  | CHECKED -  | REVISED ~ |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

(Sheet 2 of 3)

PRECAST CULVERT END
SECTIONS WITH PIPE GRATES

2-#5 bars at 12" cts. each face (typ.)

1-#5 bar each

face (typ.)

\*\* ROCK ISLAND & MERCER COUNTY

| F.A.S. | SECTION | COUNTY | SHEET |

\* 221,213 & 220

SHEET NO. 1 OF 3 SHEETS