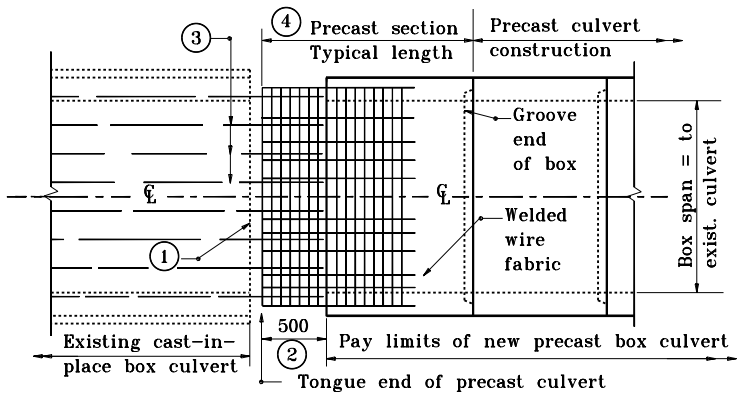
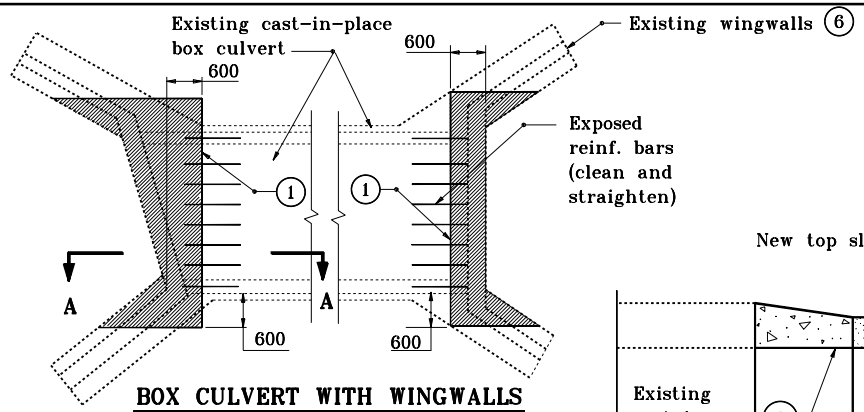
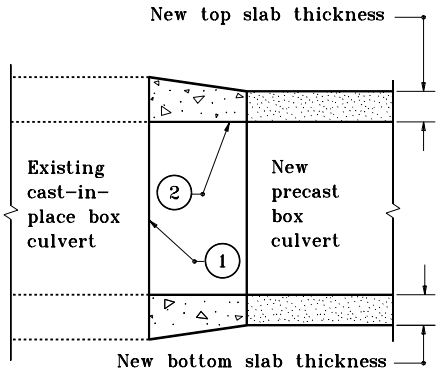


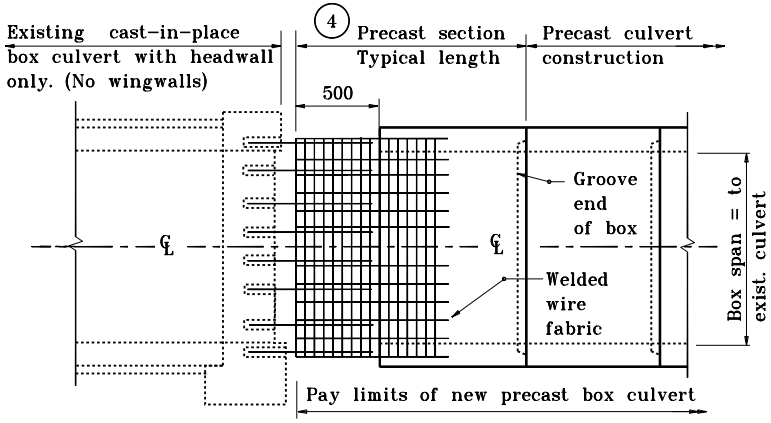
SECTION A-A CONNECTION VIEW



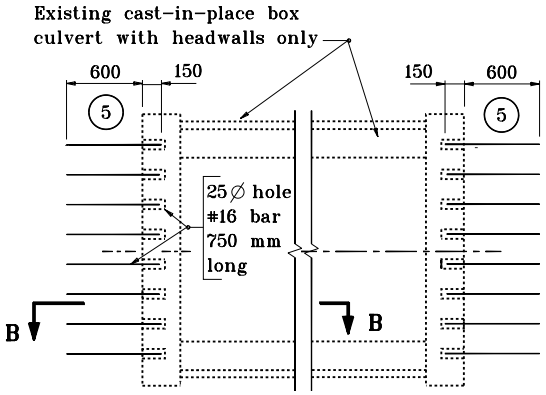
BOX CULVERT WITH WINGWALLS EXTENSION PREPARATION



SECTION A-A AND B-B
(Showing cast-in-place section)



SECTION B-B CONNECTION VIEW



BOX CULVERT WITH HEADWALLS ONLY EXTENSION PREPARATION

LEGEND :

- Removals
- Existing structures
- New elements or structures

NOTES:

1. Before removing existing concrete, saw around the perimeter of the removal area on the interior and exterior of the culvert barrel a depth of 25 mm.
2. Exposed longitudinal steel in existing culvert shall be lapped 500 mm with exposed mesh in precast box culvert.
3. Clean and straighten old bars in sidewalls, top and bottom slabs. Cut existing bars off 25 mm from face of precast element.
4. Reinforcing mesh in the precast box culvert shall be exposed on the tongue end of box. Box culvert with exposed welded wire fabric for 500 mm length shall be special order.
5. The holes for dowels shall be drilled along the parimeter of existing headwall a minimum of 150 mm into old concrete and the dowels firmly set in an approved chemical anchor system.
6. Remove existing wings as necessary.

All dimensions are in mm unless otherwise specified.

INDIANA DEPARTMENT OF TRANSPORTATION

PRECAST BOX CULVERT EXTENSION

JANUARY 1998

STANDARD DRAWING NO. **714-BCEX-01**

ANTHONY L. UREMOVICH REGISTERED No. 18095 STATE OF INDIANA PROFESSIONAL ENGINEER

DESIGN STANDARDS ENGINEER

/s/ Anthony L. Uremovich 1-02-98
DESIGN STANDARDS ENGINEER DATE

/s/ Donald W. Lucas 1-02-98
CHIEF HIGHWAY ENGINEER DATE

Source Sheet: MU