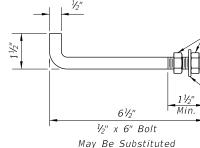


GENERAL NOTES

- 1. Unless otherwise designated in the plans, concrete pipe mitered end sections may be used with mitered end sections may be used with any type of side drain pipe except aluminum pipe; and, used with any type of side drain pipe except steel pipe. When bituminous coated metal pipe عز والمعاد end sections with like pipe or concrete pipe. When the mitered and section pipe is dissimilar t accordance with Index 430-001.
- 2. Use either corrugated metal or concrete mitered end sections for corrugated polyethylene $\dot{\rho}$ pe pipe (PPP). When used in conjunction with corrugated mitered end sections, make connection visit join HDPE or PVC pipe, with metal pipe or other coupler approved by the State Drainage Engin end sections, concrete jacket constructed in accordance with Index 430-001.
- 3. Class NS concrete cast-in-place reinforced slabs are required for all sizes of cross drain pipe slabs at 51/5" thick.
- 4. Select lengths of concrete pipe that avoid excessive connections in the assembly of the mitered
- 5. Repair corrugated metal pipe galvanizing that is damaged during beveling and perforating.
- 6. Prior to placing concrete slab apply a bituminous coating to any portion of corrugated metal ph12" beyond the concrete slab.
- 7. When existing multiple side drain pres are spaced other than the dimensions shown in this Ind either construct the mitered end sections separately as single pipe or collectively as multiple p

DESIGN NOTES

- 1. Mitered end sections for pipe sizes 15", 18" and 24" round or equivalent pipe arch or elliptical slope intersection permits, the mitered end section may be located with the culvert opening as
- 2. Include slope and ditch transitions when the normal roadway slope must be flattened to place Transitions detail.



Anchors required for CMP only.

Anchor, washer and nuts to be galvanized steel

Bend anchor where required to center in concrete slab. Damaged are to be spaced a distance equal to four (4) corrugations. Place t

Flat washers to be placed on inside wall of pipe.

Holes in the mitered end pipe are to be drilled or punched; burning

ANCHOR DETAIL

SPECIAL DETAILS AND NOTES

CROSS DRAIN MITERED END SE

any type of side drain pipe; corrugated steel pipe corrugated aluminum mitered end sections may be specified for side drain pipe, construct the mitered o the side drain pipe construct a concrete jacket in
(HDPE), polyvinyl-chloride pipe (PVC) and polypropylene ng either a formed metal band specifically designated to eer. When used in conjunction with a concrete mitered
s. Unless 3" thickness called for in plans, construct end section
pe in direct contact with concrete. Extend the coating
ex, have nonparallel axes, or non-uniform sections, hipe end sections as directed by the Engineer.
cross drain
l pipe are permitted within the clear zone. When the close as 8' beyond the outside edge of the shoulder.
end section outside clear zone. See Slope and Ditch
Hex Nuts (2 Req.)
Flat Washer (1 Req.)
surfaces to be repaired after bending. Anchors he anchors in the outside crest of corrugation.
g not permitted.

	INDEX	SHEET
CTION		