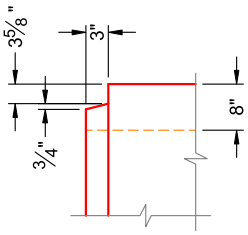
Job Name: 25-2073 - Alcoa Outfall
Job Location: Newburgh, IN
Contractor: Bowen Engineering Corporation

PC: A. Chambers
TECH: J. Horsley
Plant: 100

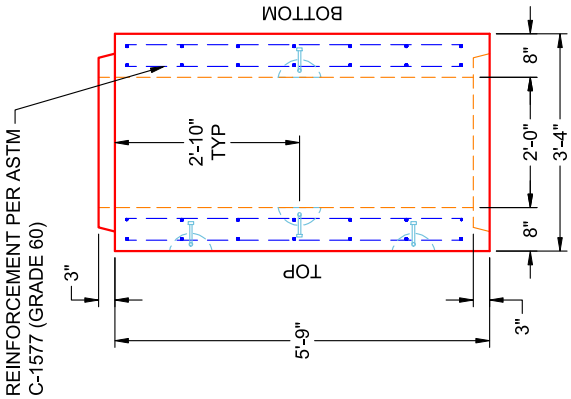
Structure ID: **BC 4 x 2 (PC 18)**
Spec: Box Culvert
Type: Box Culvert (08W/08F/08T) No Haunch
Size: 48" x 24"

Rim: 5.75' | Sump: 0" | Floor (Bot): 0'
Invert: 5.75' | Floor (Top): 0' | Overall Height: 5.75'
Rim to Invert: 0' | Floor Height: 0" | Slack: 0"

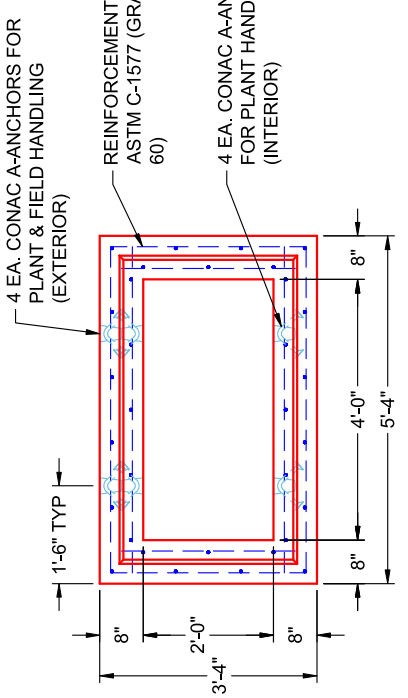
COMPONENT ISOMETRIC VIEW



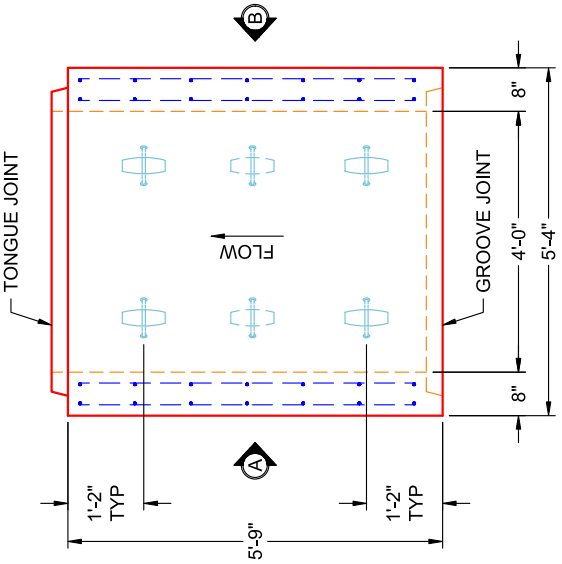
JOINT DETAIL (TYP)
NTS



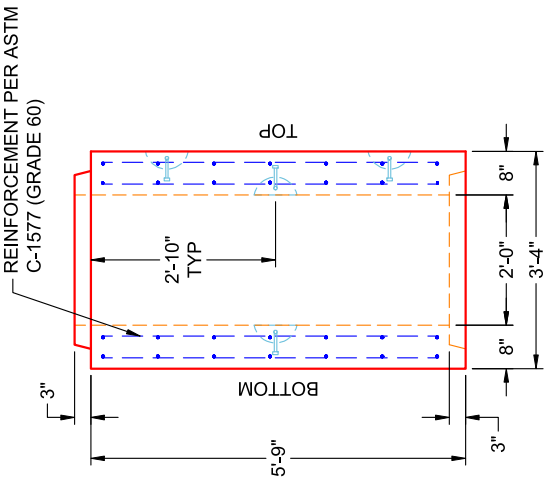
VIEW B
PC 18



END VIEW
TYPICAL



PLAN VIEW
PC 18



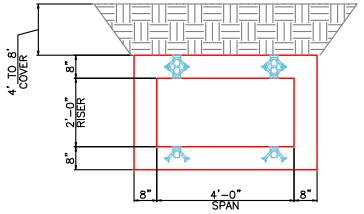
VIEW A
PC 18

GENERAL NOTES:

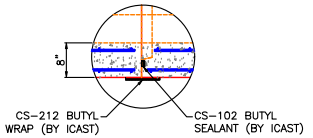
1. MANUFACTURED TO ASTM C-1577 & SECTION 714 OF INDOT STANDARD SPECIFICATIONS FOR REINFORCED CONCRETE BOX STRUCTURES
2. LOAD REQUIREDMENTS: HL93
3. REINFORCEMENT PER ASTM C-1577 (GRADE 60)
4. COVER DEPTH: 4'-8'
5. CONCRETE: 5,000 PSI AT 28 DAYS
6. JOINT SEALANT: 1" BUTYL MASTIC (CS-102)
   EXTERIOR JOINT WRAP: 12" WIDE (CS-212)
7. WEIGHT: 4' X 2' RCBC = 1,418 LBS / LF
   (5'-9" LONG SECTION = 8,152 LBS)

NOTES:

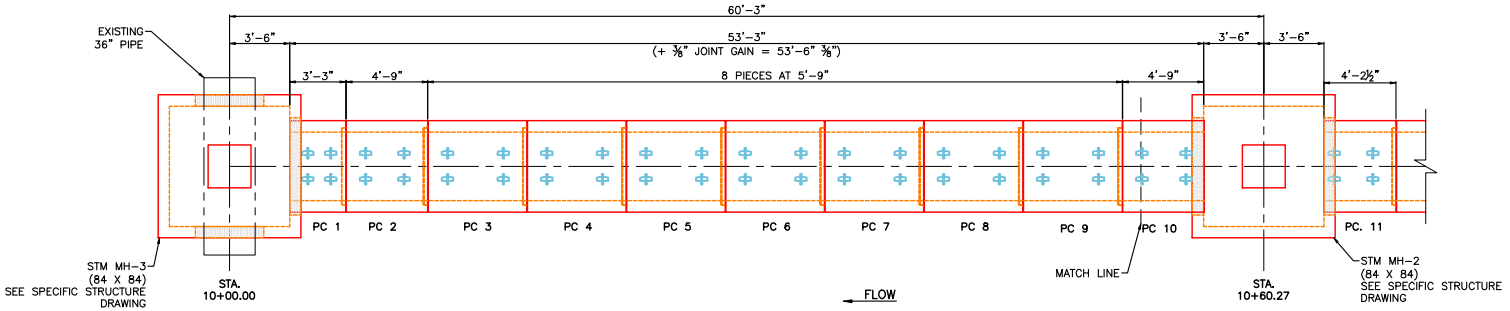
1. BOX CULVERT IS DESIGNED PER ASTM C1577 & SECTION 714 OF THE INDOT STANDARD SPECIFICATIONS FOR REINFORCED CONCRETE BOX STRUCTURES.
   - INDOT STAMP NOT REQUIRED.
   - WEEP HOLES NOT REQUIRED.
2. LOAD REQUIREMENTS = HL93.
3. COVER DEPTH = 4' TO 8'.
4. CONCRETE: 5,000 PSI AT 28 DAYS.
5. JOINT SEALANT = 1" BUTYL MASTIC (CS 102).
6. EXTERIOR JOINT WRAP = 12" WIDE CS212.
7. REINFORCING PER ASTM C1577 (GRADE 60).
8. WEIGHT: 4' X 2' RCBC = 1,418 LBS / LF
   - 5'-9" LONG SECTIONS = 8,152 LBS
   - 4'-9" LONG SECTIONS = 6,734 LBS
   - 3'-3" LONG SECTION = 4,608 LBS

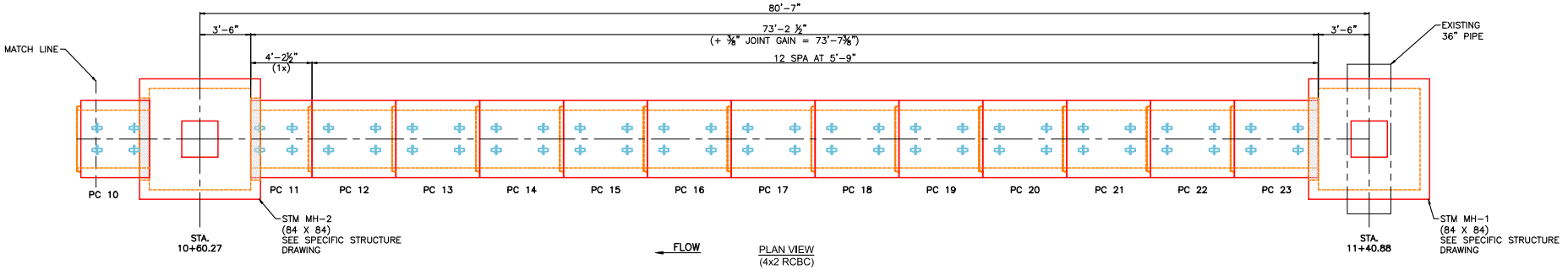


TYP. COVER DETAIL
NTS



JOINT DETAIL (TYP)
NTS





PLAN VIEW
(4x2 RCBC)

REVISIONS	
REV. 1 ??/??/??	?

SUBMITTAL DRAWING:	4 X 2 RCBC LAYING PLAN
CUSTOMER:	BOWEN ENGINEERING CORPORATON
PROJECT:	ALCOA OUTFALL
STRUCTURE I.D.:	BC 4 X 2
QUOTE/ORDER NO:	25-2073
CHECK: B. SMITH	DRAWN BY: J. HORSLEY
DATE: 01/09/26	SCALE: NTS — PG. 1 of 1