

Job Name: 26-1508BC - Ferdinand State Park Culverts Replacement
Job Location: Ferdinand, IN
Contractor: WB Koester Construction, LLC

Plant: 100

9/17/2026 12:10:14 PM

Tech: Jared - F

PC: E. Bradley



Structure ID: CV-3 HW (OUTLET END)

P1 BLKCSTM

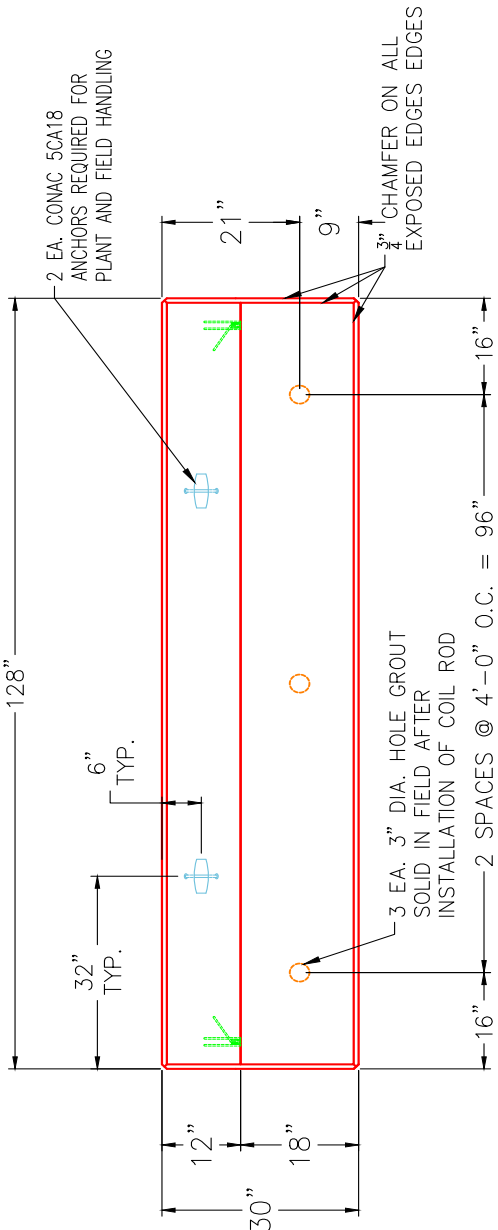
BLOCK - 128" X 30" X 44" BLOCK - 30" x 128"

NOTES:

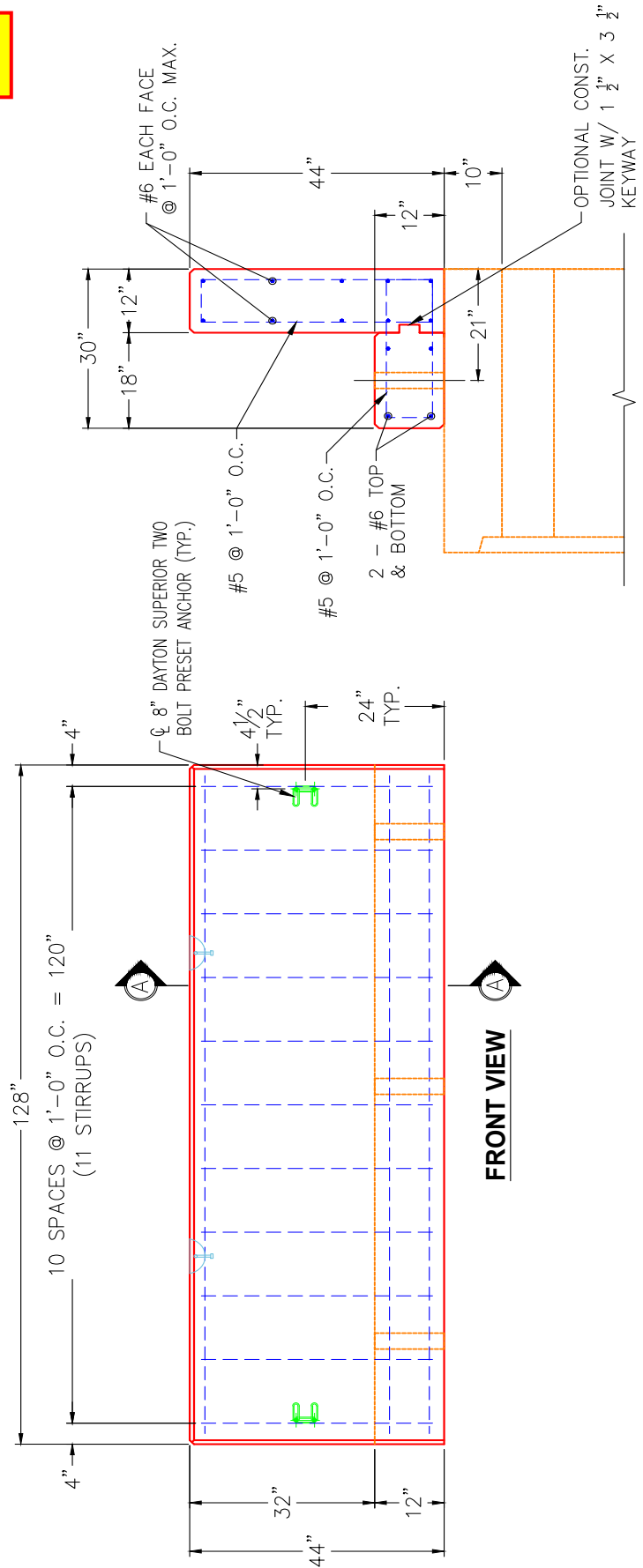
1. CONCRETE: 5,000 PSI AT 28 DAYS.
2. ALL EDGES TO HAVE $\frac{3}{8}$ " CHAMFER.
3. REINFORCING: PER ATTACHED CALCULATIONS.
4. 2" CLEAR COVER OVER ALL REINFORCING.
5. HEADWALL WILL NOT HANG LEVEL, ADJUST LIFTING CABLES AS NECESSARY
6. ELEVATION LOOKING AT BACKFACE OF HEADWALL.
7. WEIGHT = 7,830 LBS

NOTE:

This drawing is for reference only, PE Stamped drawings shall be followed for all details.



PLAN VIEW



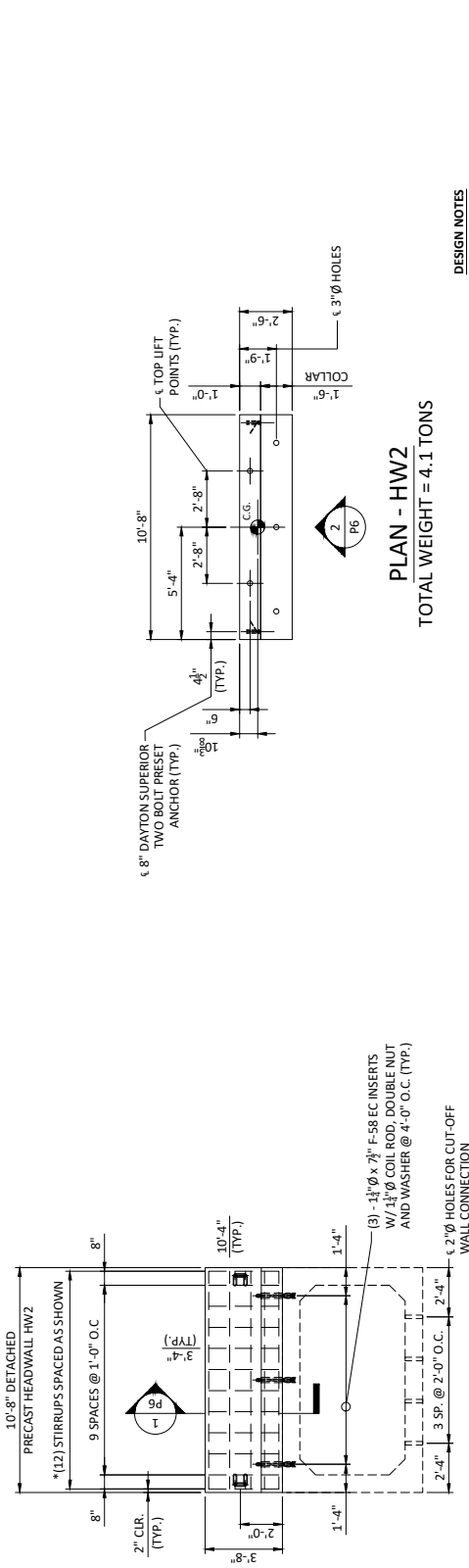
SECTION A-A



Structure ID: CV-3 HW (OUTLET END)

P1 BLKCSTM

BLOCK - 128" X 30" X 44" BLOCK - 30" x 128"



HEADWALL HW2
REINFORCING ELEVATION
LOOKING AT THE BACK FACE OF HEADWALL

DESIGN NOTES

1. ALL EDGES TO HAVE $\frac{3}{8}$ " CHAMFER
2. $F'_c = 5000$ PSI
3. SEE SHEET P5 FOR HEADWALL REINFORCING
4. HEADWALL WILL NOT HANG LEVEL, ADJUST LIFTING CABLES AS NECESSARY
5. ELEVATION LOOKING AT BACK FACE OF HEADWALL

NOTE: PRECASTER TO COORDINATE HEADWALL CONNECTION HARDWARE TYPE AND SIZE WITH SEPARATE BOX CULVERT SUBMITTAL PRIOR TO PRODUCTION OF PRECAST HEADWALLS



FOR APPROVAL
EPOXY REINFORCING

PROJECT NUMBER: 26-355
DATE: 8/17/2026
DESIGNED BY: JCK
DRAWN BY: JSP
CHECKED BY: TEN



PROVIDED BY:
881 W 7TH STREET
BERMUDA OH 44005
216.234.2624

STATE IN

LOCALE: DUBUIS COUNTY

FERDINAND STATE FOREST CULVERT CV-3

DATE

DESCRIPTION

ENG

DATE

DESCRIPTION

ENG

DATE

DESCRIPTION

ENG

DATE

DESCRIPTION

ENG

DATE

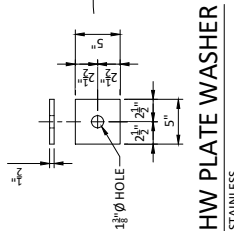
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ENG

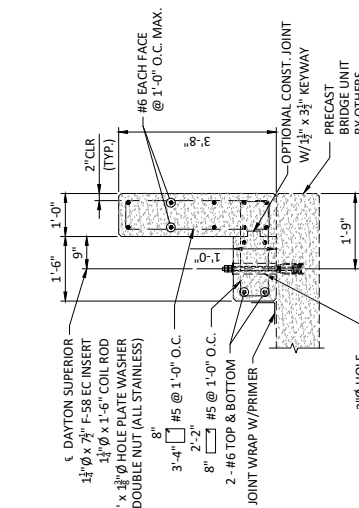
DATE

DESCRIPTION

ENG



HW PLATE WASHER
STAINLESS



SECTION
1 PG

ELEVATION
LOOKING AT BACK FACE OF HEADWALL HW2
2 PG

PLAN - HW2
TOTAL WEIGHT = 4.1 TONS