

HEAVIEST PRECAST BRIDGE UNIT

ASSUMPTIONS:

1. ANY REINFORCING CUT FOR ANCHOR PLACEMENT MUST BE REPLACED PER ENGINEERS RECOMMENDATION.
2. CRANE IS STATIONARY AND WILL NOT EXERT IMPACT LOADING ON PRECAST.
3. FLEET ANGLE IS ASSUMED TO BE LESS THAN 45 DEGREES. DO NOT LIFT WITH FLEET ANGLE GREATER THAN 45 DEGREES.
4. RIGGING WILL UTILIZE EQUALIZERS TO ALLOW LOAD TO BE EVENLY DISTRIBUTED TO ALL LIFT POINTS.

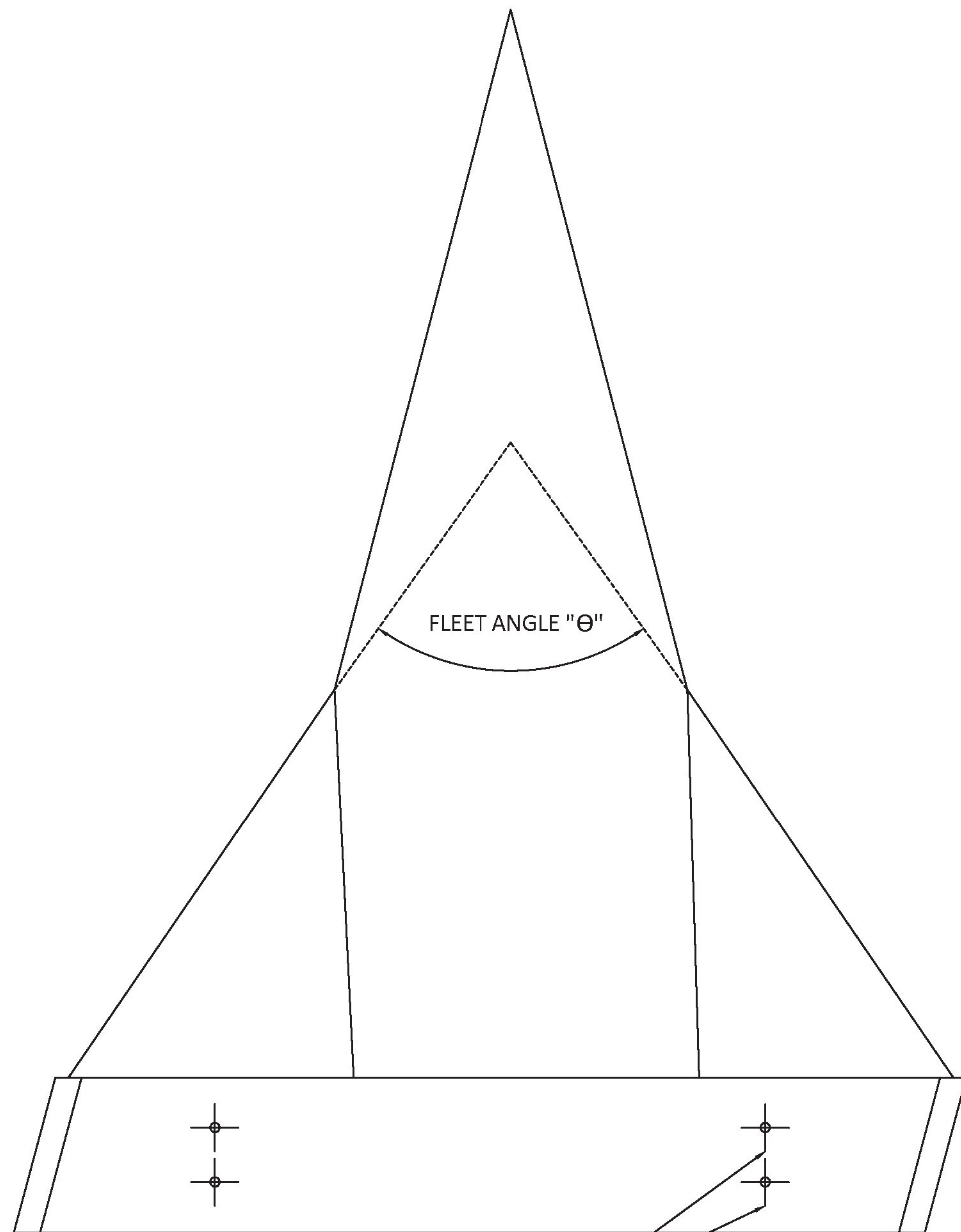
MAXIMUM PIECE WEIGHT = 36.5 TONS
 LOAD PER INSERT = 36.5 TONS/4 INSERTS = 9.125 TONS
 LOAD PER INSERT = 36.5 TONS/8 INSERTS = 4.5625 TONS

EDGE LIFT:

DAYTON SUPERIOR 8 TON P-53 INSERTS = 8.0 TONS CAPACITY
 MULTIPLICATION FACTOR "F" FOR SLING ANGLE "θ" = 1.08
 LOAD PER INSERT = 4.5625 * 1.08 = 4.93 TONS < 8.0 TON CAPACITY O.K.

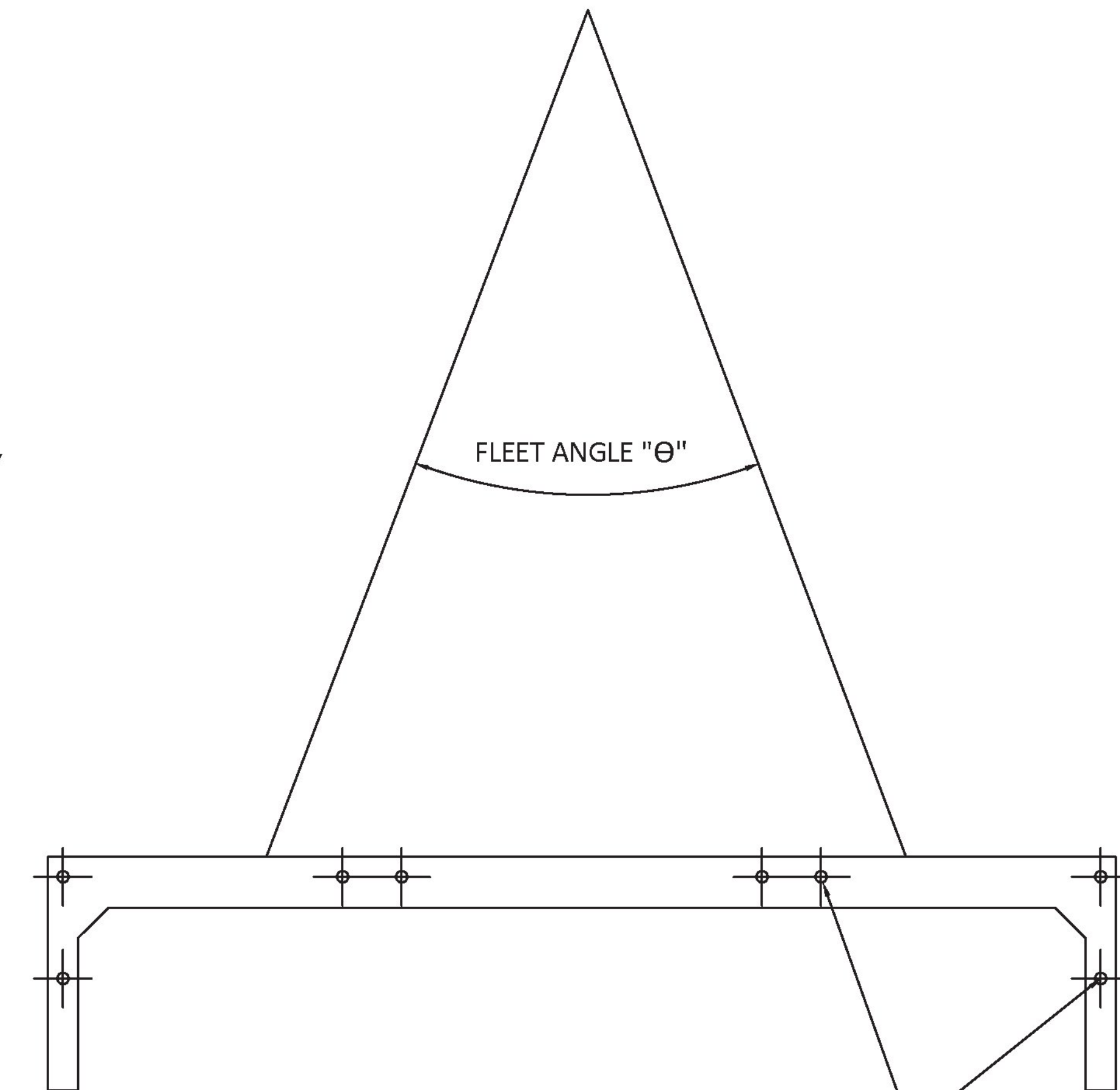
TOP SLAB LIFT:

USE DAYTON SUPERIOR 20 TON P-52 X 10" INSERTS = 12.5 TONS CAPACITY
 MULTIPLICATION FACTOR "F" FOR SLING ANGLE "θ" = 1.08
 LOAD PER INSERT = 9.125 * 1.08 = 9.86 TONS < 12.5 TON CAPACITY O.K.



20 TON - P-52 LIFTERS 10" LONG
 TOP INSERTS TYP. 4 PLACES

FORM ELEVATION / IN-PLACE PLAN



8 TON - P-53 EDGE INSERTS
 WITH P-60 TENSION REBAR
 TYP. 8 PLACES

FORM PLAN / IN-PLACE ELEVATION

DATE	DESCRIPTION	ENG
7		
6		
5		
4		
3		
2		
1		

POULTNEY BF 0138(12)

LOCALE: POULTNEY

STATE: VT

PROVIDED BY:



173 CHURCH STREET
 VALESVILLE, CT 06492
 800.234.3119

DESIGNED BY:



P.O. BOX 751471
 DAYTON, OH 45475
 800.241.0925

PROJECT NUMBER: 18-455

DATE: 12/10/2018

DESIGNED BY: RPZ

DRAWN BY: RPZ

CHECKED BY: TEN

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