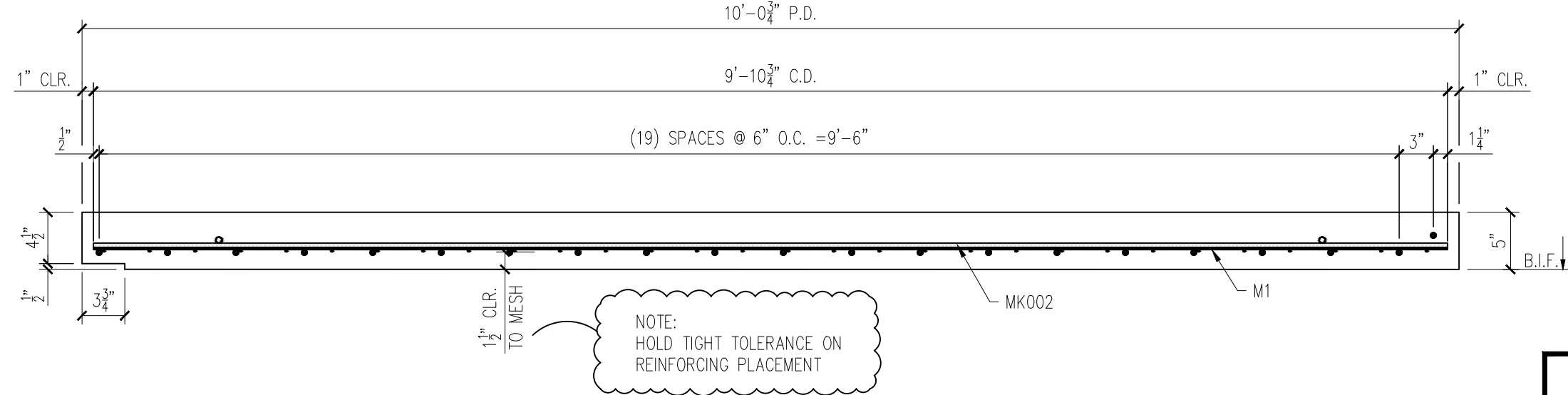
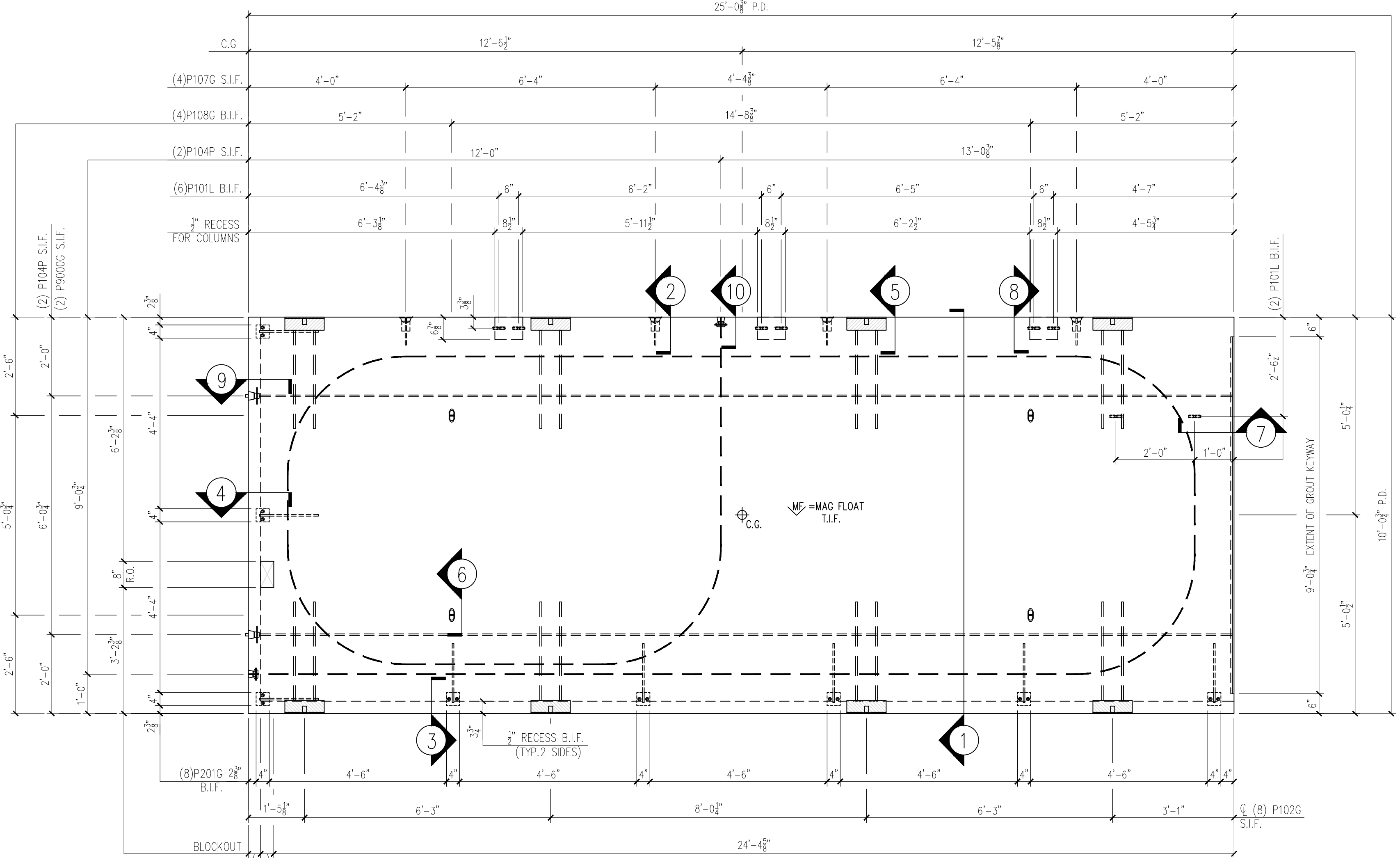


25-3470
CCHS Precast Buildings
Right Hand Dugout
ID - CVBS
Floor - FP-01
Weight - 15,655
1 Required



FLOOR FORM VIEW
SCALE: 1/2" = 1'-0"



MESSAGE CENTER
1. REFER TO DETAILS FOR REINFORCEMENT/CABLE PLACEMENT
2. SHOP TICKET SHOWS INSIDE SURFACE OF FLOOR CAST FACE DOWN

CHECKED BY: DATE:
APPROVED BY: DATE:

BILL OF MATERIALS		
MARK #	DESCRIPTION	QTY.
P201G	4"x4"x8" W/ (2) 8"x1 1/2" H.A.S. W/1'-4" BENT REBAR (GALVANIZED)	8
P104P	U-5 POST TENSION ANCHOR (PLAIN) WITH PLASTIC POCKET	4
P107G	4 TON RL-4 TECH ERECTION ANCHOR (79548SP) (GALVANIZED)	4
P102G	ESW P-4 LIFTING ANGLE (GALV.)	8
P9000G	1"Ø E.M.T. TUBE 24'-10 1/8" LONG (GALV.)	2
P108G	4 TON RL-24 PLATE ANCHOR (79128) (GALVANIZED)	4
P101L	1/2"Ø X 1 1/2" F-63 FLARED THIN SLAB COIL INSERT (ELECTROPLATED)	8

HANDLING INSTRUCTIONS

STRIPPING-TILT TABLE

SHIPPING

YARD STORAGE

ERECTION

CONCRETE INSTRUCTIONS	
CONCRETE @ RELEASE: 2,500 P.S.I.	
CONCRETE @ 28 DAYS: 5,000 P.S.I.	
POST-TENSION @ 3,500 P.S.I.	
CONCRETE MIXES	
CONCRETE - GRAY	VOLUME = 3.86 C.Y.
CONCRETE - MIX 1	VOLUME = - C.Y.
CONCRETE - MIX 2	VOLUME = - C.Y.
SOFT SOUND	VOLUME = - C.Y.
TOTALS	VOLUME = 3.86 C.Y.
WEIGHT: 15,655 LBS.	
FINISHING INSTRUCTIONS	
MF = MAG FLOAT FINISH	
FF = FORM FINISH	
L = 25'-0 3/8"	SQ.FT.(T.I.F.) = 250.44
W = 10'-0 3/4"	SQ.FT.(T.I.F.) = -
D = 5"	SQ.FT.(T.I.F.) = -
CONTROL NUMBERS:	
-	
PRODUCT	SALES ORDER NUMBER
BUILDING	-
SHEET NUMBER	NUMBER REQUIRED
1 OF 2	1

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DATE	REV	DESCRIPTION
-	-	-
-	-	-
-	-	-
-	-	-

PROJECT: 50'x10'x9'-10" SOFTBALL DUGOUT
5185 FORT CAMPBELL BOULEVARD
HOPKINSVILLE, KY 42240
CONTRACTOR: CHRISTIAN COUNTY SCHOOLS

SCALE: NTS
DRAWN BY: FTL
CHECK BY: WCR
ISSUE DATE: 07.22.26
PIECE MARK: FP-01

PT Check for Floor Panels FP-01 & 02 (PCI MNL - 1)

Material Data

(7) Wire lo-lax Strand - ASTM A416

Φ_{ps} 0.500 in,

A= 0.153 in²

E= 28500000 psi

f_{pu}= 270 ksi

Strand Length **912 in**

Assume (Info supplied by strand manufacturer)

k= 0.0007 Wobble Friction Coeff.

μ = 0.05 Curvature friction coeff. (Initial tension of 3,000 lbs)

Strand is to be stressed 70% of ultimate

= 28917 lbs

Adjustments to tensioning

1) Dead end anchor wedge seating loss

~ Expected to be 1/8 in

2) Live end anchor wedge seating loss

~ Expected to be 1/8 in, recommend over pull 1/8"

3) Elastic Shortening

Neglect for this pnl

4) Friction Loss

Additional force to overcome frictional forces between strand and sheathing

Tensioning Computations

Basic Elongation = $\frac{(\text{Force required beyond initial tension}) (\text{Length of strand between anchorages})}{(\text{Area of strand}) (\text{Modulus of Elasticity})}$

= 5.42 in

Adjustments

a) Dead end anchor wedge seating: Add 1/8" to elong. No force adjustment req'd

Add 1/8 in

b) Live end seating: over pull by 1/8"

1/8 in

Force adjustment t = 598 lbs lbs α = curvature = $\pi(2.5)$ 7.85 radians

c) Friction losses $\frac{PD}{PS} = e^{-\{kL + \mu\alpha\}}$

= 0.640

Avg. strand force = 0.820 17.99% Loss

Recommend sequential jacking at both ends of the tendon be used to reduce the overstressing the strand at the live end

Friction loss at mid-point of tendon

$\frac{PD}{PS} = e^{-\frac{\{kL + \mu\alpha\}}{2}}$

= 0.800

Avg. strand force over

half of tendon = 0.900 9.99% Loss

Total force and elongation at live end must be increased to compensate for friction losses

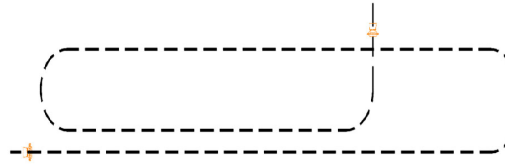
Elong. Adjustment = 0.542 in

Force Adjustment = 2889 lbs

Total Force Required = 32404 lbs **OK**

Elongation Summary:

Gross Theoretical Elongation			
Basic Elongation	5.42 in		
Dead End Seating Loss	0.125 in		
Live End Seating Loss	0.125 in		
Friction Losses	0.542 in		
Total Elongation	6.21 in		
Rounded	6 3/16 in		
Tolerance limits	-7.0%	5.78 in	5 12/16 in
	+7.0%	6.65 in	6 10/16 in



Cable Configuration

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