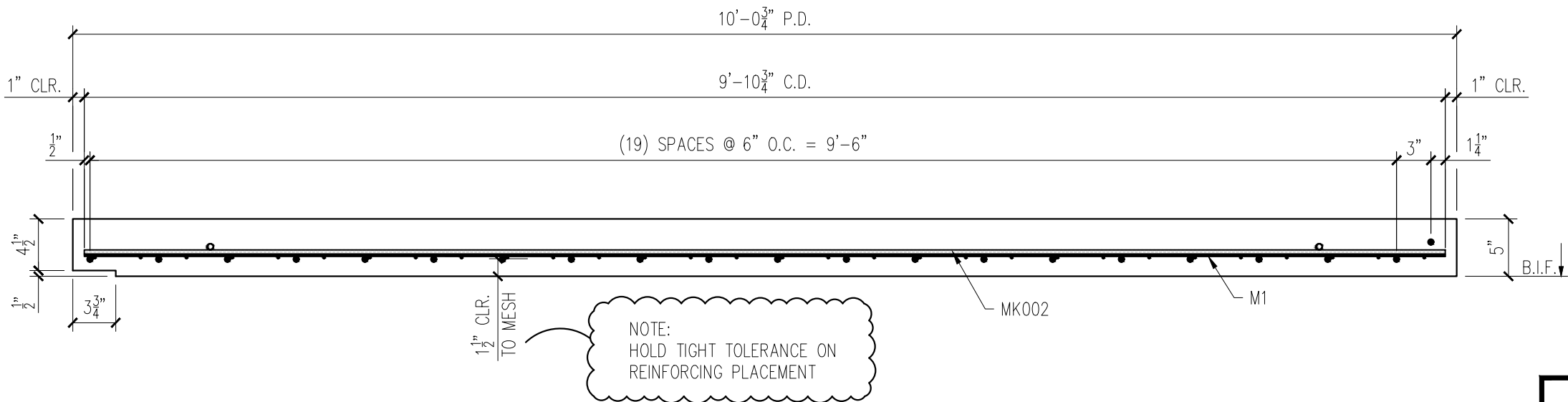


25-3470P6
Baseball Dugout 7B
ID - CVBS
Floor - FP-01
Weight - 18,790
1 Required



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

- MESSAGE CENTER
- REFER TO DETAILS FOR REINFORCEMENT/CABLE PLACEMENT
 - 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) 3/8"x1 1/2" H.A.S. W/1'-4" BENT REBAR (GALVANIZED)	9
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 29'-10 1/8" LONG (GALV.)	2
P106G	2 TON PLATE ANCHOR QL128G OR EQUAL (GALV.)	8
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 = 4.63 C.Y.
CONCRETE - MIX 1	VOLUME = - C.Y.
CONCRETE - MIX 2	VOLUME = - C.Y.
SOFT SOUND	VOLUME = - C.Y.
TOTALS	VOLUME = 4.63 C.Y.
WEIGHT: 18,790 LBS.	
FINISHING INSTRUCTIONS	
MF = MAG FLOAT FINISH	
FF = FORM FINISH	
L = 30'-0 3/8"	SQ.FT.(T.I.F.) = 300.60
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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REV	INI	DESCRIPTION	DATE
1	-		-
2	-		-
3	-		-
4	-		-

PROJECT: 60'x10'x9'-10" BASEBALL DUGOUT
5185 FORT CAMPBELL BOULEVARD
HOPKINSVILLE, KY 42240
CONTRACTOR: CHRISTIAN COUNTY SCHOOLS

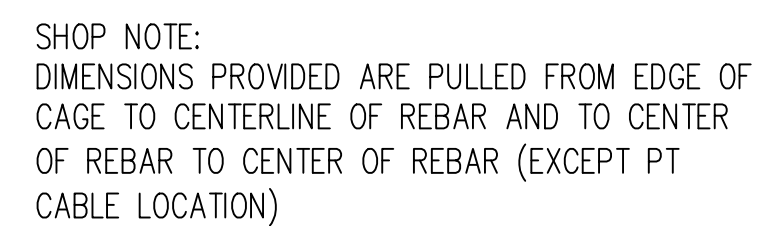
SCALE
NTS

DRAWN BY
FTL

CHECK BY
WCR

ISSUE DATE
08.04.26

PIECE MARK
FP-01



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PT Check for FP-01 & FP-02 60' Dugout(PCI MNL - 1

Material Data

(7) Wire lo-lax Strand - ASTM A416

Φ_{ps} 0.500 in,

A_s 0.153 in²

E_s 28500000 psi

f_{pu} 270 ksi

Strand Length **1058 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 =
$$\frac{(\text{Force required beyond initial tension}) (\text{Length of strand between anchorages})}{(\text{Area of strand}) (\text{Modulus of Elasticity})}$$

= 6.29 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 $t = \frac{515 \text{ lbs}}{270 \text{ ksi}} = 0.0019 \text{ in}$ $\alpha = \text{curvature} = \pi(2.5) = 7.85 \text{ radians}$

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

= 0.635

Avg. strand force = 0.817 18.26% 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

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

= 0.797

Avg. strand force over half of tendon = 0.898 10.16% Loss

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

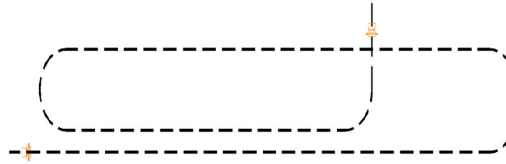
Elong. Adjustment = 0.639 in

Force Adjustment = 2939 lbs

Total Force Required = 32371 lbs **OK**

Elongation Summary:

Gross Theoretical Elongation			
Basic Elongation		6.29 in	
Dead End Seating Loss		0.125 in	
Live End Seating Loss		0.125 in	
Friction Losses		0.639 in	
Total Elongation		7.18 in	
Rounded		7 3/16 in	
Tolerance limits	-7.0%	6.67 in	6 11/16 in
	+7.0%	7.68 in	7 11/16 in



Cable Configuration

**25-3470
Baseball Dugout 7B
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Floor - FP-01
Weight - 18,790
1 Required**