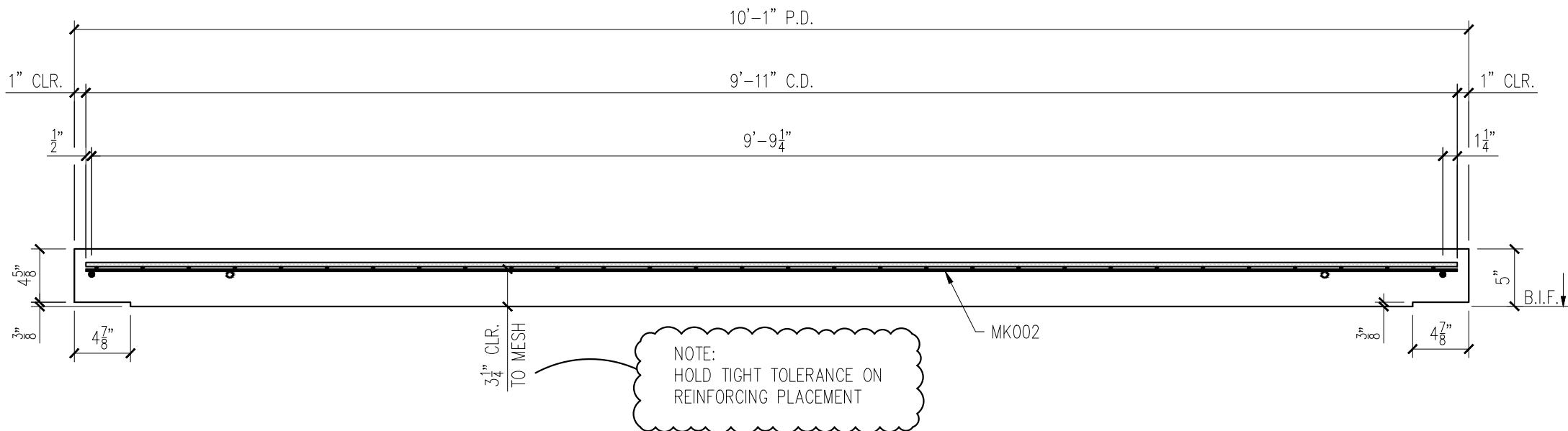
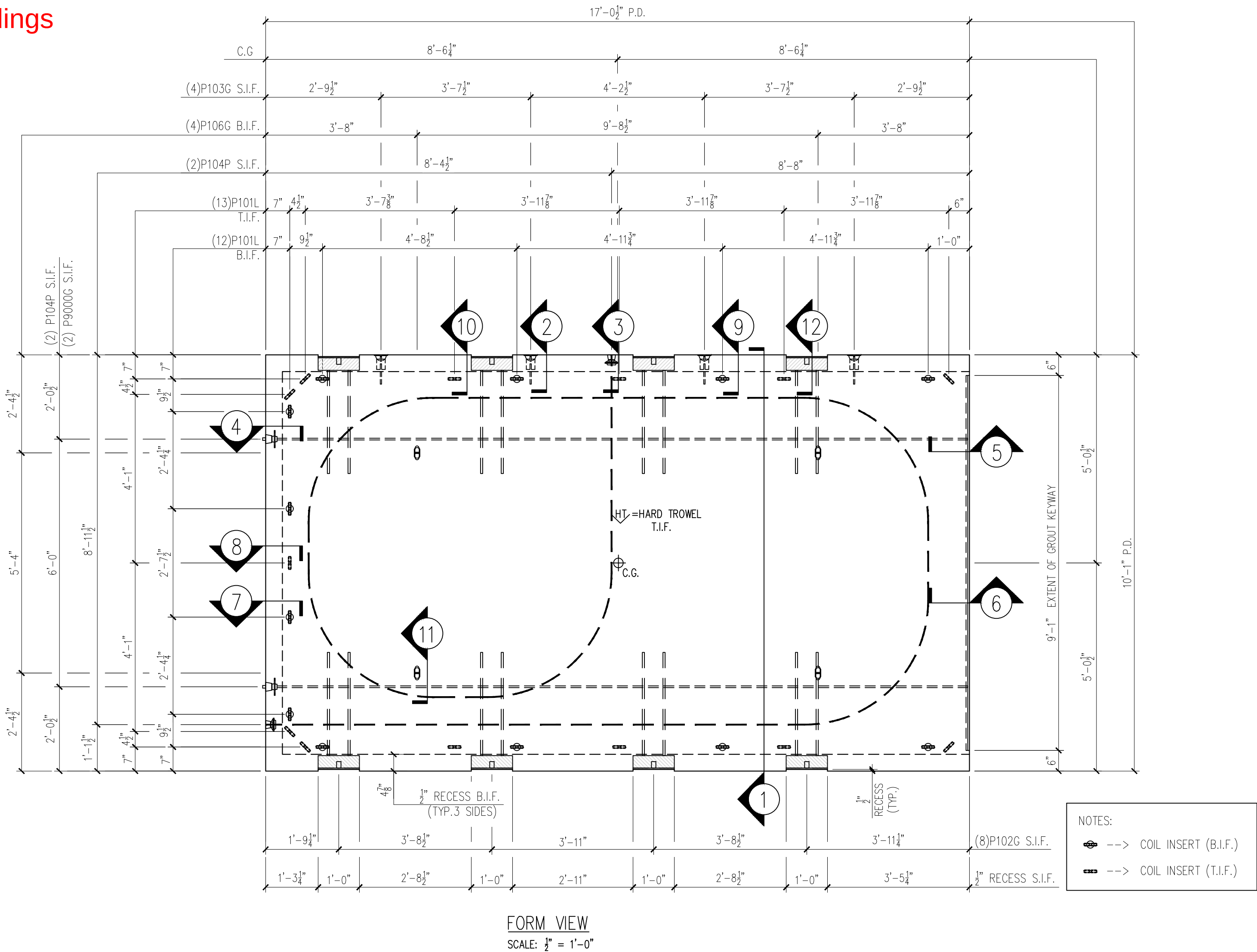


25-3470
CCHS Precast Buildings
Pressbox
ID - CVT
Roof - RP-02
Weight - 10,740
1 Required



MESSAGE CENTER

1. REFER TO DETAILS FOR REINFORCEMENT/CABLE PLACEMENT

2. SHOP TICKET SHOWS EXTERIOR FINISH CAST FACE DOWN

CHECKED BY: DATE:
APPROVED BY: DATE:

BILL OF MATERIALS		
MARK #	DESCRIPTION	QTY.
P101L	3/8" X 1 1/2" F-63 FLARED THIN SLAB COIL INSERT (ELECTROPLATED)	25
P104P	U-5 POST TENSION ANCHOR (PLAIN) WITH PLASTIC POCKET	4
P103G	2 TON TECH ERECTION ANCHOR (GALV.)	4
P106G	2 TON PLATE ANCHOR (GALV.)	4
P9000G	1" E.M.T. TUBE 16'-8" LONG (GALV.)	2
P102G	ESW P-4 LIFTING ANGLE (GALV.)	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 = 2.65 C.Y.
CONCRETE - MIX 1	VOLUME = - C.Y.
CONCRETE - MIX 2	VOLUME = - C.Y.
SOFT SOUND	VOLUME = - C.Y.
TOTALS	VOLUME = 2.65 C.Y.
WEIGHT:	10,740 LBS.

FINISHING INSTRUCTIONS	
HT = HARD TROWEL FINISH	
FF = FORM FINISH	
L = 17'-0 1/2"	SQ.FT.(T.I.F.) = 171.83
W = 10'-1"	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

EASI-SET® WORLDWIDE

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www.EasiSet.com • 800-547-4045 • Fax 540-439-2541

REV	INI.	DESCRIPTION
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

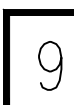
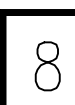
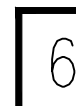
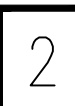
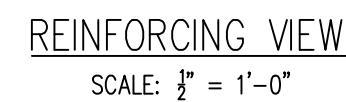
PROJECT: 34'X10'X22' SOCCER PRESSBOX

5185 FORT CAMPBELL BOULEVARD
HOPKINSVILLE, KY 42240

CONTRACTOR: CHRISTIAN COUNTY SCHOOLS

SCALE NTS
DRAWN BY FTL
CHECK BY WCR
ISSUE DATE 07.14.26
PIECE MARK RP-02

SHOP NOTE:
PT CABLE IS LOCATED ON THE UNDERSIDE OF THE
WWR MAT



DATE:

PRODUCT	SALES ORDER NUMBER	PIECE MARK RP-02
BUILDING	-	
SHEET NUMBER	NUMBER REQUIRED	
2 OF 2	1	

DATE	DESCRIPTION	REV.	INI.
-		<u>1</u>	-
-		<u>2</u>	-
-		<u>3</u>	-
-		<u>4</u>	-
-		<u>5</u>	-

CE MARK
RD 02

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PT Check for Roof Panels RP-01/RP-02 (PCI MNL -

Material Data

(7) Wire lo-lax Strand - ASTM A416

Φ_{ps} 0.500 in,

A= 0.153 in²

E= 28500000 psi

fpu= 270 ksi

Strand Length **667 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 = $\frac{(\text{Force required beyond initial tension}) (\text{Length of strand between anchorages})}{(\text{Area of strand}) (\text{Modulus of Elasticity})}$

= 3.96 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 = 817 lbs lbs α = curvature = $\pi(2.5)$ 7.85 radians

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

= 0.649

Avg. strand force = 0.825 17.53% 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

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

= 0.806

Avg. strand force over

half of tendon = 0.903 9.71% Loss

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

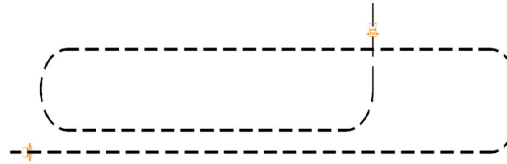
Elong. Adjustment = 0.385 in

Force Adjustment = 2806 lbs

Total Force Required = 32541 lbs **OK**

Elongation Summary:

Gross Theoretical Elongation			
Basic Elongation	3.96 in		
Dead End Seating Loss	0.125 in		
Live End Seating Loss	0.125 in		
Friction Losses	0.385 in		
Total Elongation	4.60 in		
Rounded	4 10/16 in		
Tolerance limits	-7.0%	4.28 in	4 4/16 in
	+7.0%	4.92 in	4 15/16 in



Cable Configuration

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Roof - RP-02
Weight - 10,740
1 Required**