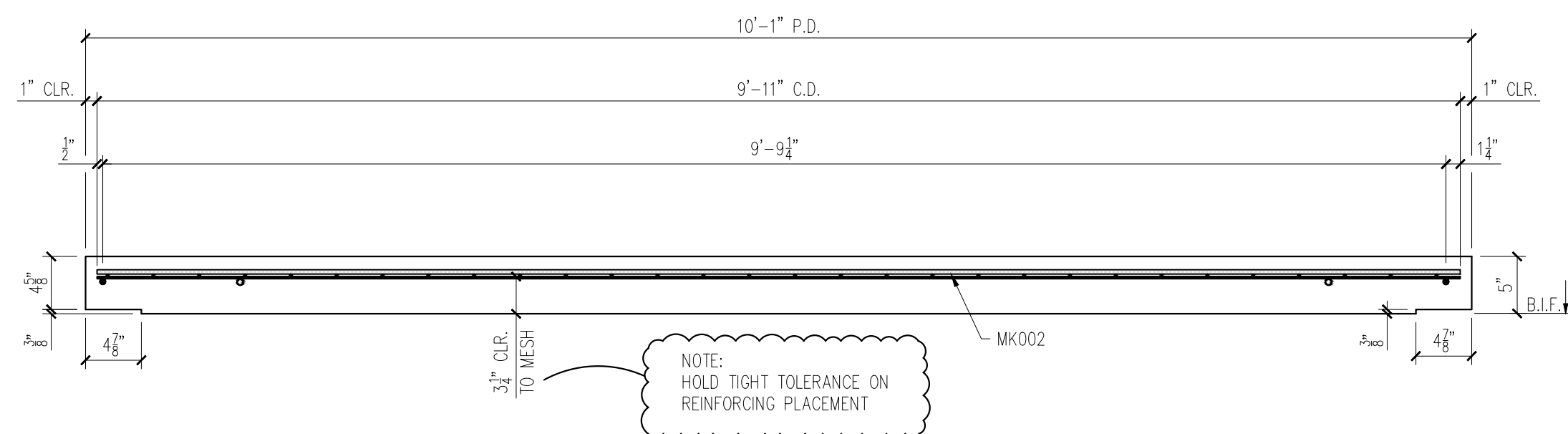
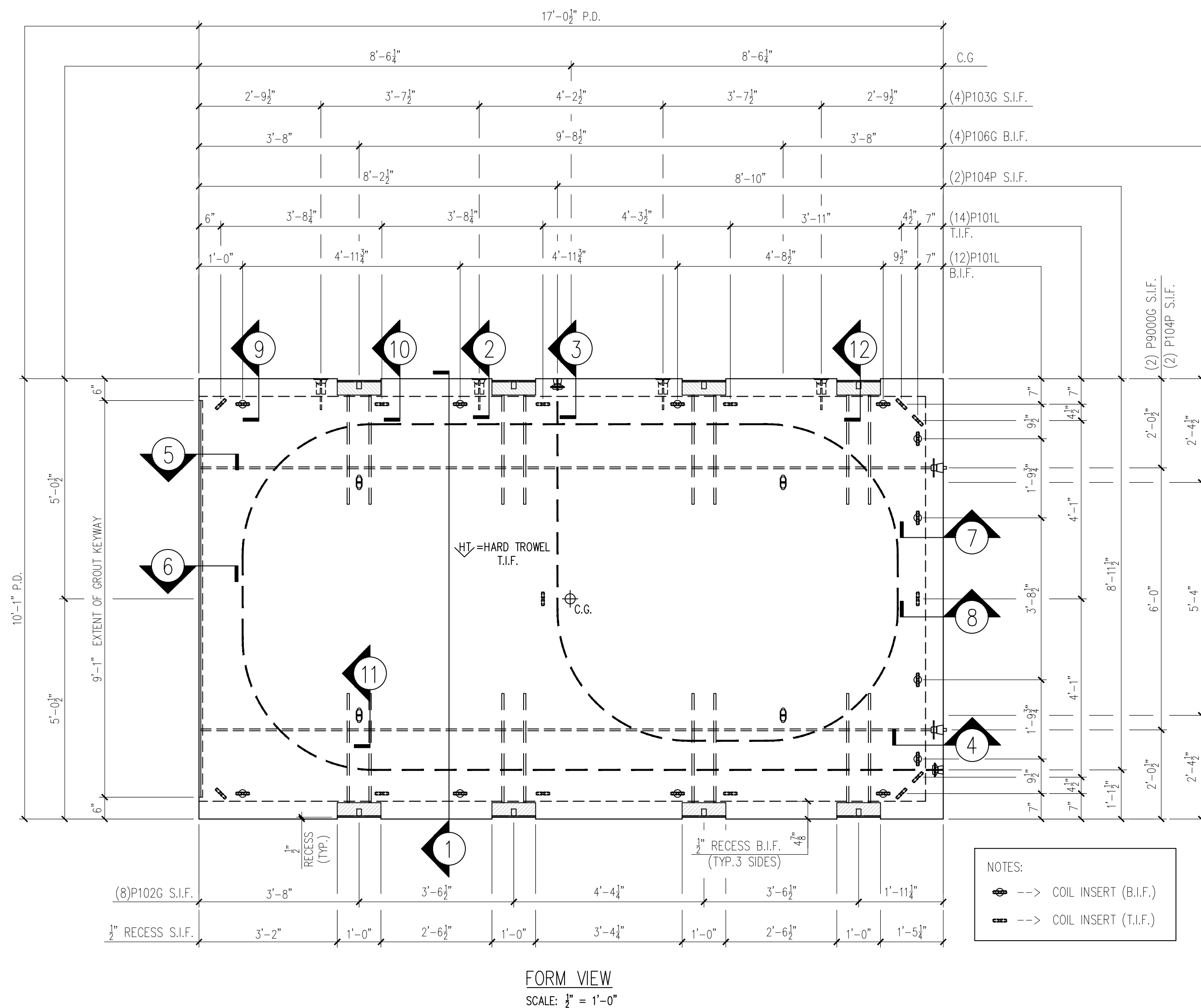
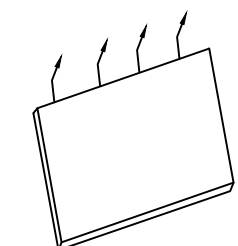


25-3470
CCHS Precast Buildings
Pressbox
ID - CVT
Roof - RP-01
Weight - 10,740
1 Required

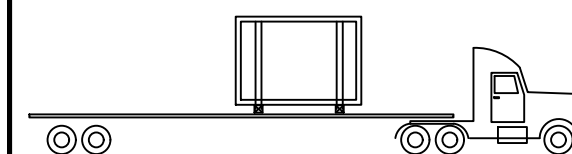


BILL OF MATERIALS		
MARK #	DESCRIPTION	QTY.
P101L	1"Ø X 1 1/2" F-63 FLARED THIN SLAB COIL INSERT (ELECTROPLATED)	26
P104P	U-5 POST TENSION ANCHOR (PLAIN) WITH PLASTIC POCKET	4
P103G	2 TON TECH ERECTION ANCHOR (GALV.)	4
P106G	2 TON PLATE ANCHOR (GALV.)	4
P9000G	1"Ø E.M.T. TUBE 16'-8" LONG (GALV.)	2
P102G	ESW P-4 LIFTING ANGLE (GALV.)	8

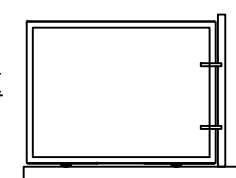
HANDLING INSTRUCTIONS



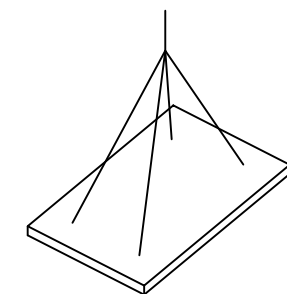
STRIPPING-TILT TABLE



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:

	-
	-

<u>PRODUCT</u>	<u>SALES ORDER NUMBER</u>
BUILDING	-
<u>SHEET NUMBER</u>	<u>NUMBER REQUIRED</u>
1 OF 2	1

EASI-SET® WORLDWIDE
5119 Callett Rd. • Midland, VA 22728 • info@EasiSet.com
www.EasiSet.com • 800-547-4045 • Fax 540-439-2541

DATE	DESCRIPTION	INI.	REV.
-		-	Δ_1
-		-	Δ_2
-		-	Δ_3
-		-	Δ_4
-		-	Δ_5

PROJECT: 34'X10'X22' SOCCER PRESSBOX
5185 FORT CAMPBELL BOULEVARD
HOPKINSVILLE, KY 42240
CONTRACTOR: CHRISTIAN COUNTY SCHOOLS

SCALE
NTS

DRAWN BY
FTI

CHECK BY
WCR

ISSUE DATE
07.14.26

PIECE MARK
BD 01

MESSAGE CENTER

1. REFER TO DETAILS FOR REINFORCEMENT/CABLE PLACEMENT
2. SHOP TICKET SHOWS EXTERIOR FINISH CAST FACE DOWN

CHECKED BY:

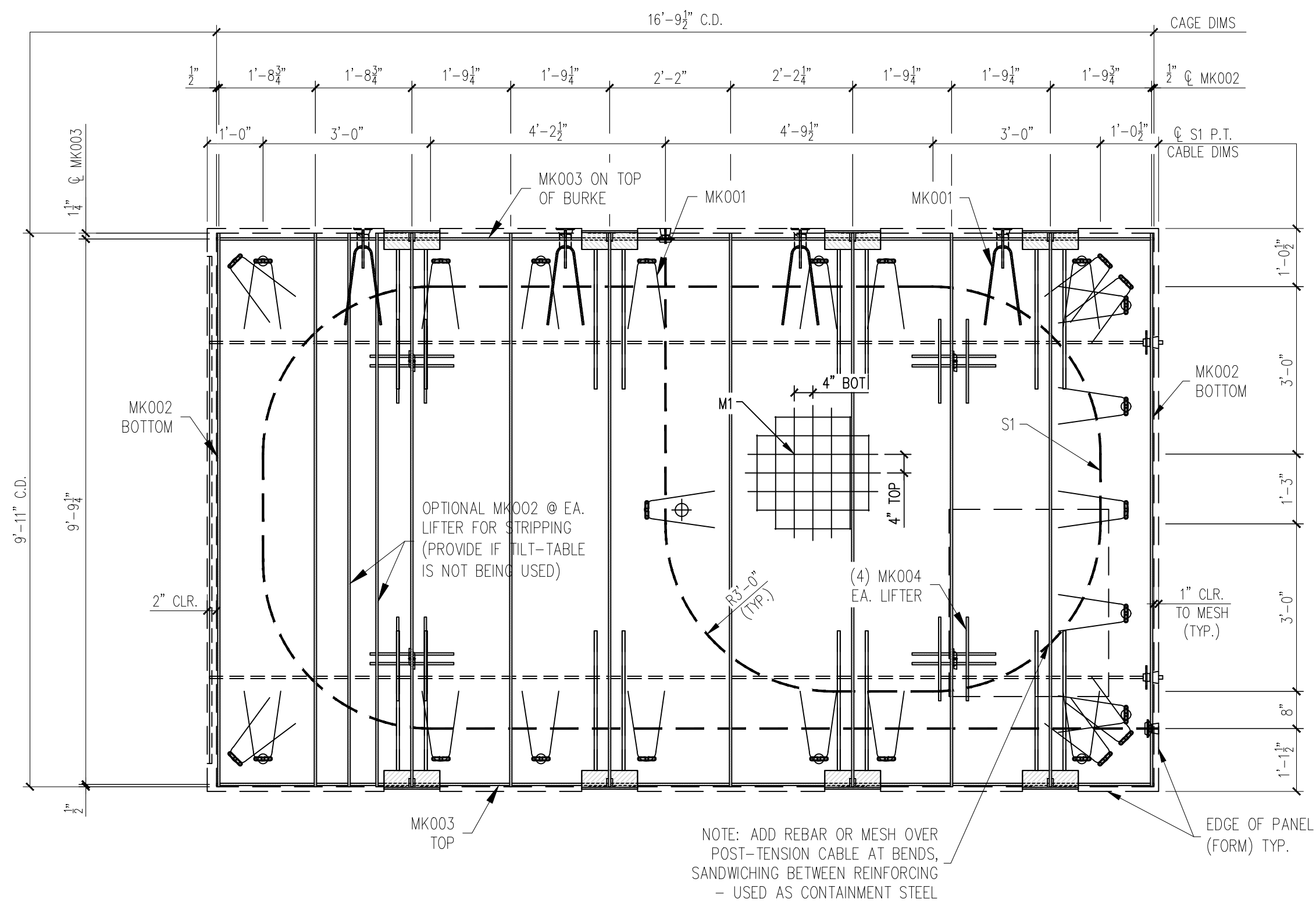
DATE:

APPROVED BY:

DATE:

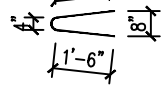
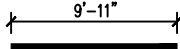
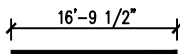
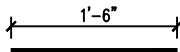
1

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



REINFORCING VIEW
SCALE: $\frac{1}{2}" = 1'-0"$

25-3470
CCHS Precast Buildings
Pressbox
ID - CVT
Roof - RP-01
Weight - 10,740
1 Required

REINFORCING SCHEDULE		
MARK #	DESCRIPTION	QTY
MK001	#3 X 3'-0" 	30
MK002	#3 X 9'-11" 	10
MK003	#3 X 16'-9 1/2" 	2
MK004	#4 X 1'-6" 	16
S1	1/2" Ø X 58'-10" LONG P.T. CABLE	1
MESH SCHEDULE		
MARK #	DESCRIPTION	QTY
M1	W4XW4 4"x4" WWF 16'-9 1/2" X 9'-11"	1

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

NOTES:

1. TRIM PLASTIC SHEATH AT BOTH ENDS OF THE PT CABLE TO FIT BETWEEN U-5 ANCHOR PLATES
2. CONSTRUCT REBAR-MESH CAGE ACCORDING TO THE DRAWINGS. SECURE LIFTING APPARATUS TO FORM AND ADD PROPER REINFORCEMENT. PLACE REBAR-MESH CAGE AND HAIRPINS AT INSERTS WITH PROPER CLEARANCES (PER DRAWINGS).
3. PLACE AND SECURE PT CABLE AS INDICATED ON THE DRAWINGS (REINFORCING VIEW)

PRODUCT	SALES ORDER NUMBER
BUILDING	-
SHEET NUMBER	NUMBER REQUIRED
2 OF 2	1

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-01

EASI-SET® WORLDWIDE

5119 Catlett Rd. • Midland, VA 22728 • info@EasiSet.com
www.EasiSet.com • 800-547-4045 • Fax 540-439-2541

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_s 0.153 in²

E_s 28500000 psi

f_{pu} 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 $t = \frac{817 \text{ lbs}}{817 \text{ lbs}} \alpha = \text{curvature} = \pi(2.5) \quad 7.85 \text{ radians}$

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

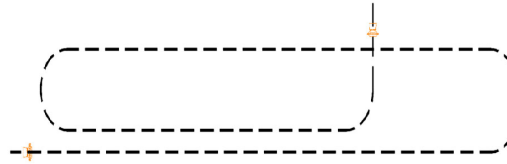
Elong. Adjustment = 0.385 in

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

**25-3470
CCHS Precast Buildings
Pressbox
ID - CVT
Roof - RP-01
Weight - 10,740
1 Required**