

25-3470

CCHS Precast Buildings

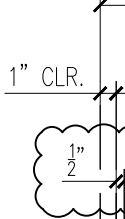
Left Hand Dugout

ID - CVBS

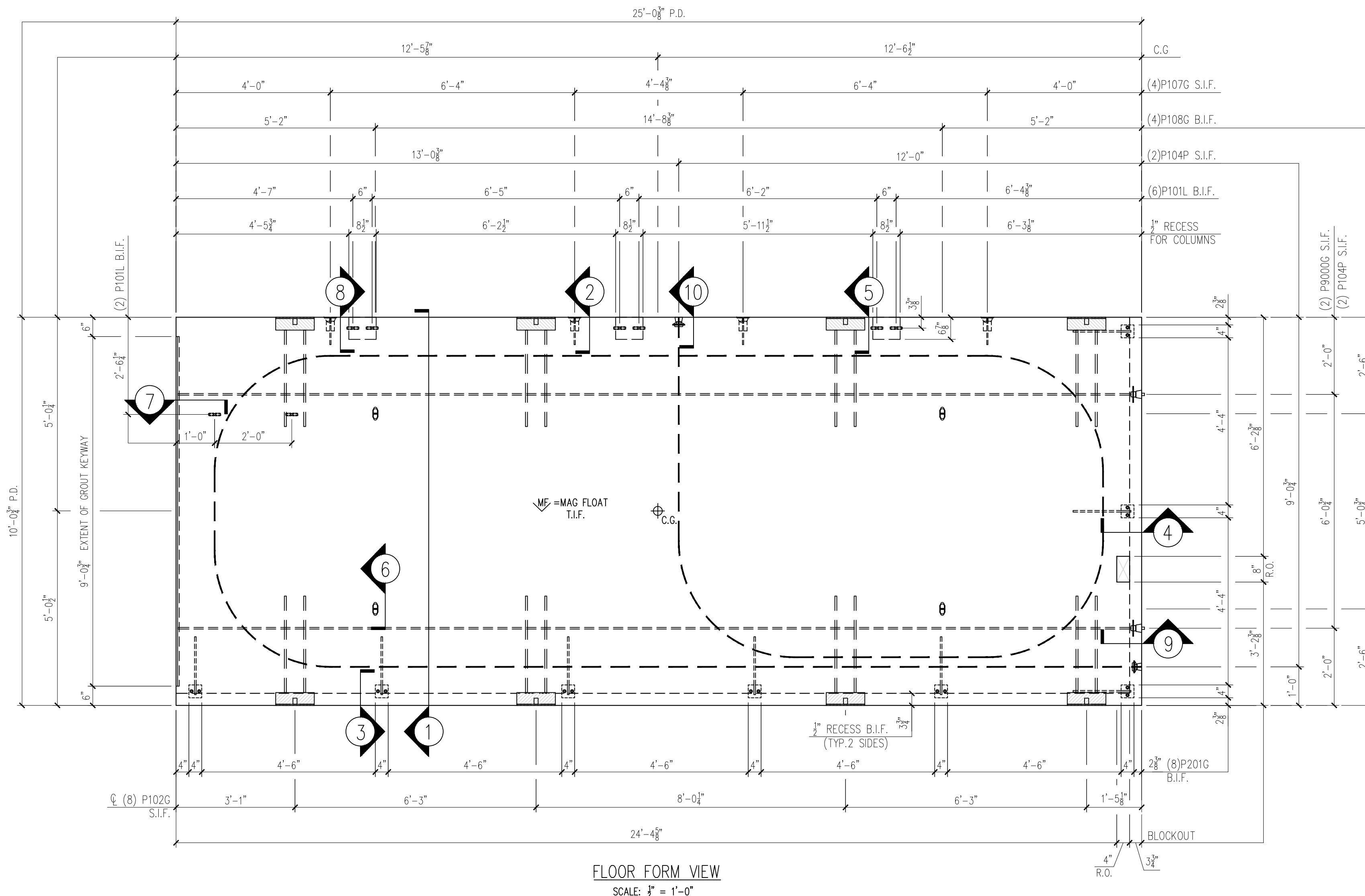
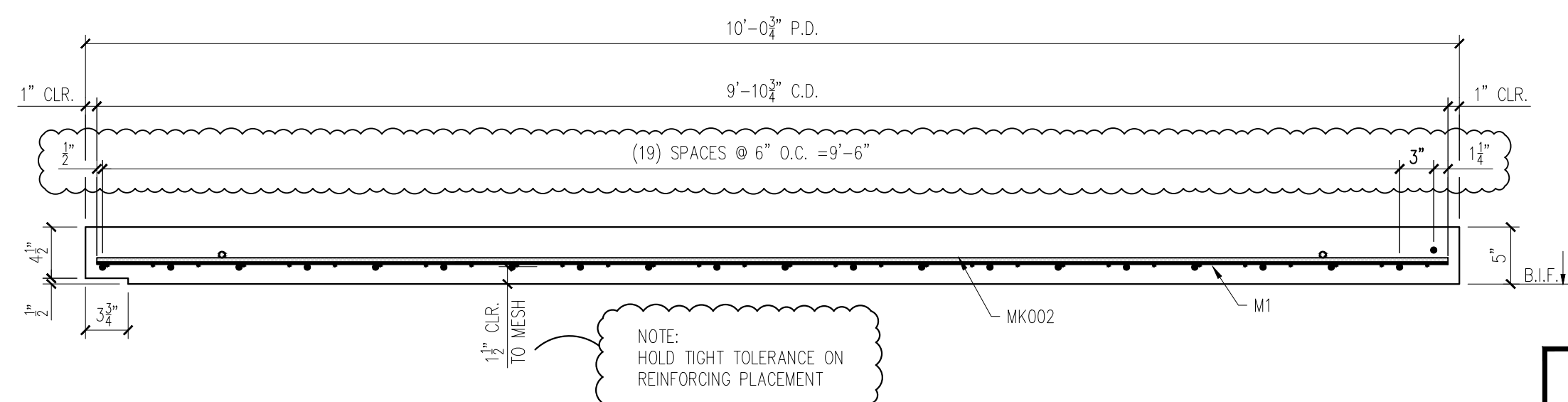
Floor - FP-01

Weight - 15,655

1 Required

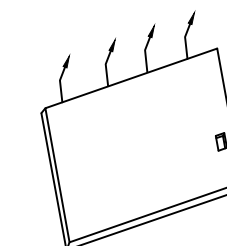


The technical drawing shows a cloud-shaped footprint of a building. It includes dimension lines indicating a width of 1' and a depth of 2'. A label '1" CLR.' is positioned to the left of the footprint, with a line pointing to the top edge of the building's profile.

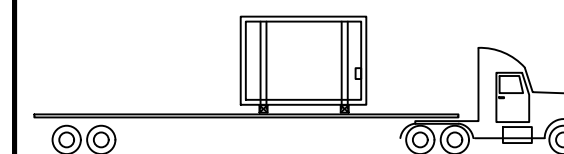


BILL OF MATERIALS		
MARK #	DESCRIPTION	QTY
P201G	4"x4"x $\frac{3}{8}$ " W/ (2) $\frac{3}{8}$ " ϕ x1 $\frac{1}{2}$ " H.A.S. W/1'-4" BENT REBAR (GALVANIZED)	8
P104P	U-5 POST TENSION ANCHOR (PLAIN) WITH PLASTIC POCKET	4
P107G	4 TON RL-4 TECH ERECTION ANCHOR (79548SP) (GALVANIZED)	4
P102G	ESW P-4 LIFTING ANGLE (GALV.)	8
P9000G	1" ϕ E.M.T. TUBE 24'-10 $\frac{1}{2}$ " LONG (GALV.)	2
P108G	4 TON RL-24 PLATE ANCHOR (79128) (GALVANIZED)	4
P101L	$\frac{1}{2}$ " ϕ X 12" F-63 FLARED THIN SLAB COIL INSERT (ELECTROPLATED)	8

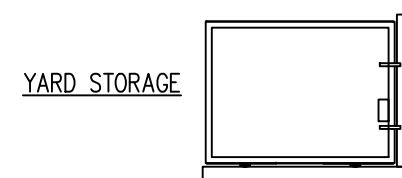
HANDLING INSTRUCTIONS



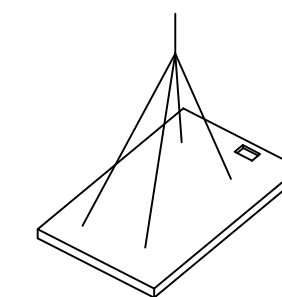
STRIPPING-TILT TABLE



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.

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

MESSAGE CENTER

1. REFER TO DETAILS FOR
REINFORCEMENT/CABLE PLACEMENT

2. SHOP TICKET SHOWS INSIDE
SURFACE OF FLOOR CAST FACE DOWN

DATE:

EASI-SET® WORLDWIDE
5119 Cattlett Rd. • Midland, VA 22728 • info@EasiSet.com
www.EasiSet.com • 800-547-4045 • Fax 544-439-2541

DATE	DESCRIPTION	INI.	REV.
07.21.26	REVISED REBAR SPACING	WCR	Δ
—	—	—	Δ
—	—	—	Δ
—	—	—	Δ
—	—	—	Δ

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

SCALE
NTS

DRAWN BY
FTI

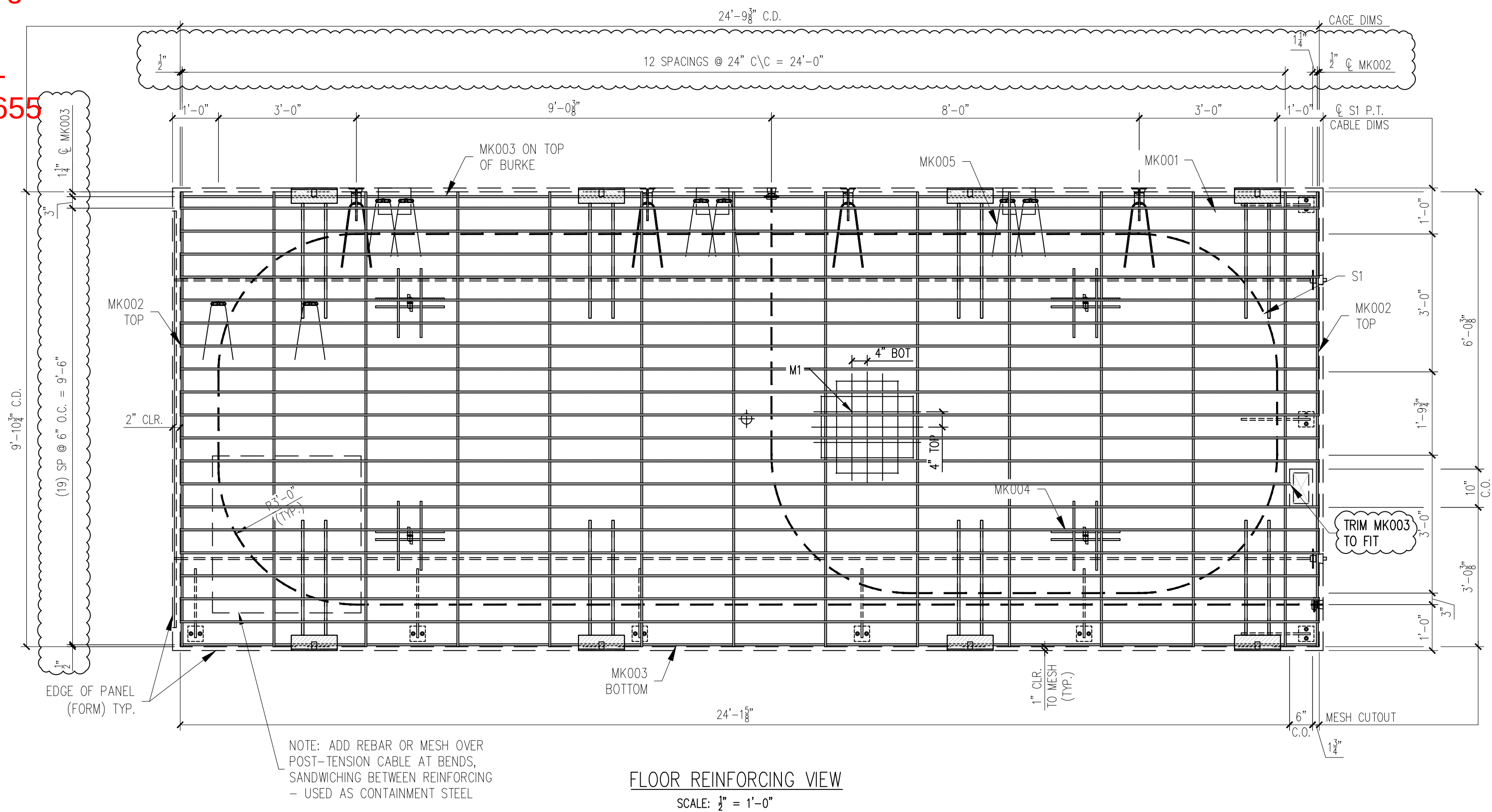
CHECK BY
WCR

ISSUE DATE
07.20.26

PIECE MARK
ED 01

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

SHOP NOTE:
DIMENSIONS PROVIDED ARE PULLED FROM EDGE OF
CAGE TO CENTERLINE OF REBAR AND TO CENTER
OF REBAR TO CENTER OF REBAR (EXCEPT PT
CABLE LOCATION)



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

REINFORCING SCHEDULE		
MARK #	DESCRIPTION	QTY
MK001	#4 X 4'-0"	4
MK002	#3 X 9'-10 3/4"	14
MK003	#3 X 24'-9 1/4"	21
MK004	#4 X 1'-6"	32
MK005	#3 X 3'-0"	8
S1	1/2" Ø X 79'-4" LONG P.T. CABLE	1
MESH SCHEDULE		
MARK #	DESCRIPTION	QTY
M1	W4XW4 4"x4" WWF 24'-9 3/8" X 9'-10 1/2"	1

- 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

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-	-	-
-	-	-
-	-	-

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SCALE
NTS

DRAWN BY
FTL

CHECK BY
WCR

ISSUE DATE
07.20.26

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_s 0.153 in²

E_s 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 $t = \frac{598 \text{ lbs}}{270 \text{ ksi}} \alpha = \text{curvature} = \pi(2.5) = 7.85 \text{ radians}$

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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