Job Name: 25-3470P9 CCHS Precast Building
Job Location: 5185 Fort Campbell BLVD
Contractor: Christian County Board of Education C/O A&K Construction

Plant: Beaver Dam
9/25/2026 2:35:29 PM

Tech: J. Coppage
PC: E. Bradley

Structure ID: FP-02 - Floor Panel 2

P1 CVBS

FLOOR - EASI-SET BUILDING - FP-02 - 120" x 204"

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

REV	INI.	DESCRIPTION	DATE
1	-	-	-
2	-	-	-
3	-	-	-
4	-	-	-
5	-	-	-

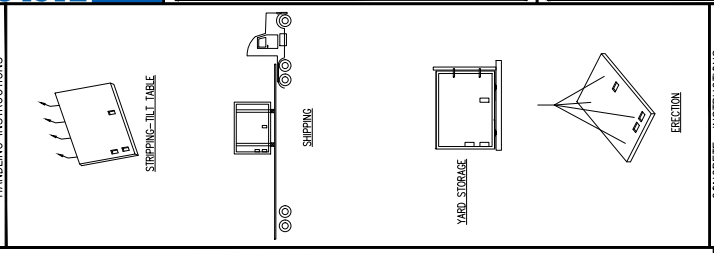
PROJECT: BASEBALL/SOFTBALL PRESSBOX
5185 FORT CAMPBELL BOULEVARD
HOPKINSVILLE, KY 42240
CONTRACTOR: CHRISTIAN COUNTY SCHOOLS

SCALE: NTS
DRAWN BY: JTL
CHECK BY: WCR
ISSUE DATE: 09.18.26
PIECE MARK: FP-02

BILL OF MATERIALS

MARK #	DESCRIPTION	QTY.
P201G	4"x4"x3/8" W/ (2) 3/4"ø H.A.S. W/1'-4" BENT REBAR (GALVANIZED)	13
P104P	U-5 POST TENSION ANCHOR (PLAN) WITH PLASTIC POCKET	5
P103G	2 TON TECH ERECTION ANCHOR (GALV.)	4
P102G	ESW P-4 LIFTING ANGLE (GALV.)	8
P90006	1"ø E.M.T. TUBE 16'-10" LONG (GALV.)	3
P106G	2 TON PLATE ANCHOR (GALV.)	4
P101L	3/4"ø X 12" F-63 FLARED THIN SLAB COIL INSERT (ELECTROPLATED)	4

HANDLING INSTRUCTIONS



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 = 3.16	C.Y.
CONCRETE - MIX 1	VOLUME = -	C.Y.
CONCRETE - MIX 2	VOLUME = -	C.Y.
SOFT SOUND	VOLUME = -	C.Y.
TOTALS	VOLUME = 3.16	C.Y.
	WEIGHT: 12,805	LBS.

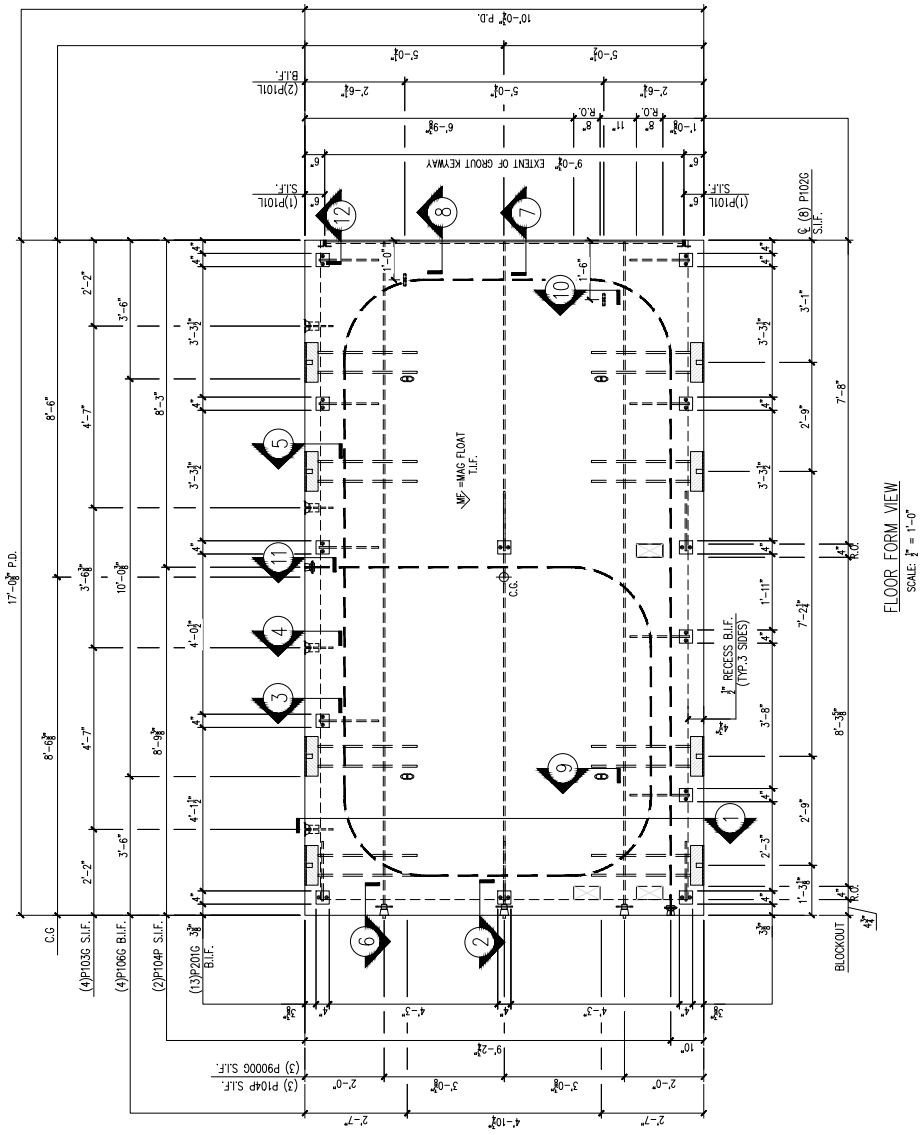
FINISHING INSTRUCTIONS
MF = MAG FLOAT FINISH
EF = FORM FINISH

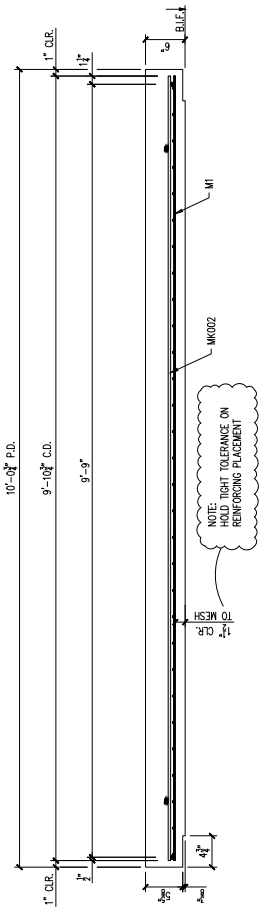
L = 17'-0 3/8"	SQ.FT.(T.U.F.) = 170.71	
W = 10'-0 3/4"	SQ.FT.(T.U.F.) = -	
D = 6"	SQ.FT.(T.U.F.) = -	

CONTROL NUMBERS:
-

SALES ORDER NUMBER: -
NUMBER REQUIRED: 2

PRODUCT: BUILDING
SHEET NUMBER: 1 OF 2





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

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9/25/2026 2:35:29 PM

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P1 **CVBS**

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REV	INI.	DESCRIPTION	DATE
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PROJECT: BASEBALL/SOFTBALL PRESSBOX
5185 FORT CAMPBELL BOULEVARD
HOPKINSVILLE, KY 42240
CONTRACTOR: CHRISTIAN COUNTY SCHOOLS

SCALE: NTS | DRAWN BY: FTL | CHECK BY: WCR | ISSUE DATE: 09.18.26 | PIECE MARK: FP-02

PROJECT: BUILDING | SALES ORDER NUMBER: | SHEET NUMBER: 2 OF 2 | NUMBER REQUIRED: 2

REINFORCING SCHEDULE

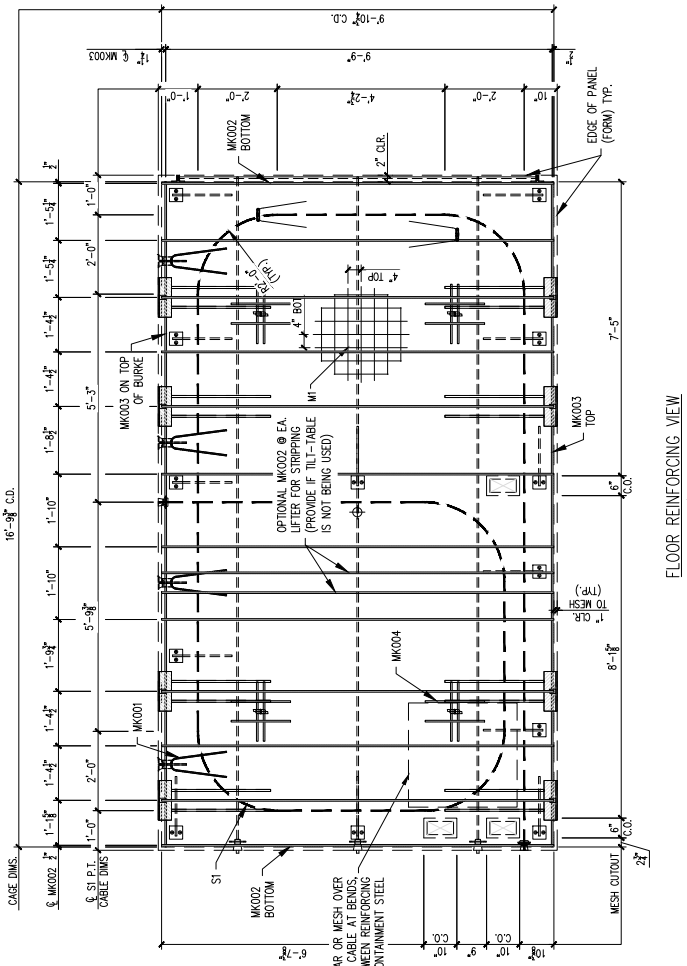
MARK #	DESCRIPTION	QTY
MK001	#3 X 3'-0"	6
MK002	#3 X 9'-10½"	12
MK003	#3 X 16'-9½"	2
MK004	#4 X 1'-6"	16
S1	1½" ø X 62'-3" LONG P.T. CABLE	1

MESH SCHEDULE

MARK #	DESCRIPTION	QTY
M1	WA4XW4.4"X4" WWF 16'-9⅝" X 9'-10⅝"	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)

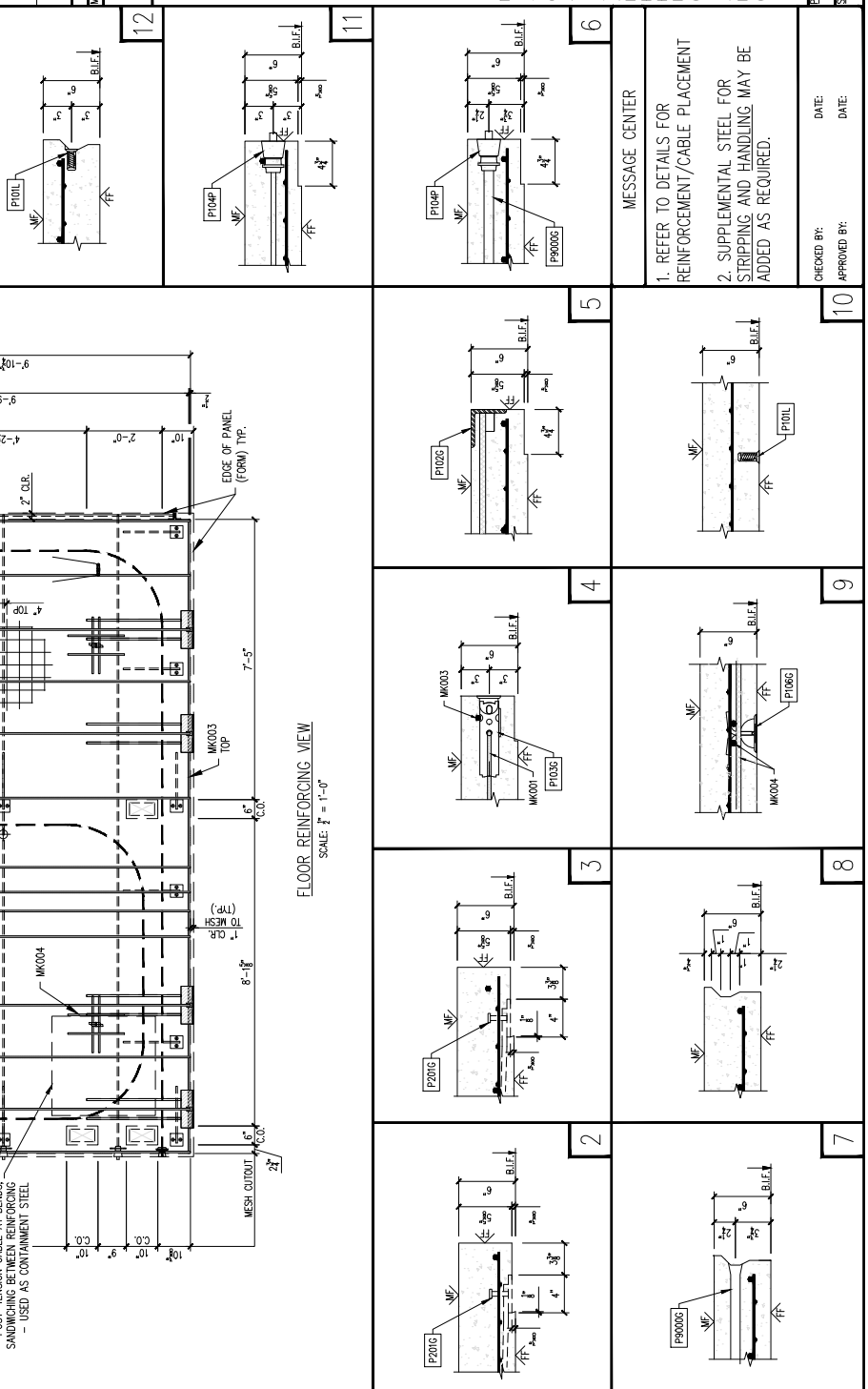
SHOP NOTE:
DIMENSIONS PROVIDED ARE PULLED FROM EDGE OF CAGE TO CENTERLINE OF REBAR AND TO CENTER OF REBAR TO CENTER OF REBAR (EXCEPT PT CABLE LOCATION)



FLOOR REINFORCING VIEW
SCALE: ½" = 1'-0"

MESSAGE CENTER
1. REFER TO DETAILS FOR REINFORCEMENT/CABLE PLACEMENT
2. SUPPLEMENTAL STEEL FOR STRIPPING AND HANDLING MAY BE ADDED AS REQUIRED.

CHECKED BY: DATE:
APPROVED BY: DATE:



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EASI-SET BUILDINGS

PT Check for Floor Panels FP-02 (PCI MNL - 116)

Material Data
(7) Wire lo-lax Strand - ASTM A416

Φps	0.500 in,
A=	0.153 in²
E=	28500000 psi
fpu=	270 ksi
Strand Length	676 in

Assume (Info supplied by strand manufacturer)



Cable Configuration

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

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

= 4.01 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 = 807 lbs lbs α = curvature = π(2.5) 7.85 radians
c) Friction losses $\frac{PD}{PS} = e^{-(kL+\mu\alpha)}$

= 0.649
Avg. strand force = 0.825 17.54% Loss

Recommend sequencial 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 9.72% Loss

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

Elong. Adjustment = 0.390 in
Force Adjustment = 2809 lbs

Total Force Required = 32533 lbs OK

Elongation Summary:

		Gross Theoretical Elongation		
Basic Elongation		4.01 in		
Dead End Seating Loss		0.125 in		
Live End Seating Loss		0.125 in		
Friction Losses		0.390 in		
	Total Elongation	4.65 in		
	Rounded	4 10/16 in		
Tolerance limits	-7.0%	4.33 in	4 5/16	in
	+7.0%	4.98 in	5	in