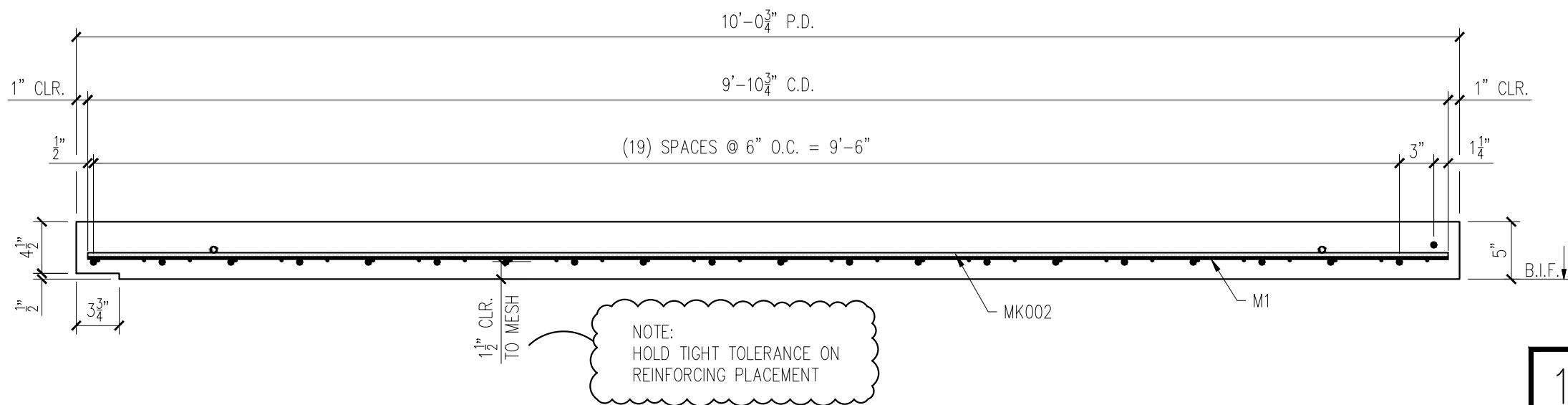


25-3470P6  
Baseball Dugout 7B  
ID - CVBS  
Floor - FP-02  
Weight - 18,770  
1 Required



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

MESSAGE CENTER

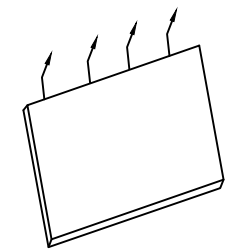
- REFER TO DETAILS FOR REINFORCEMENT/CABLE PLACEMENT
- SHOP TICKET SHOWS INSIDE SURFACE OF FLOOR CAST FACE DOWN

CHECKED BY: DATE:  
APPROVED BY: DATE:

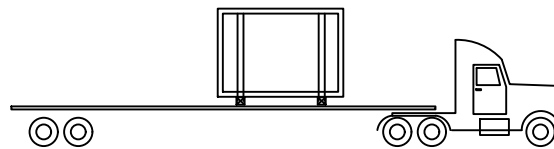
1

| BILL OF MATERIALS |                                                                  |      |
|-------------------|------------------------------------------------------------------|------|
| MARK #            | DESCRIPTION                                                      | QTY. |
| P201G             | 4"x4"x8" W/ (2) 8"x1 1/2" H.A.S. W/1'-4" BENT REBAR (GALVANIZED) | 13   |
| 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 12" F-63 FLARED THIN SLAB COIL INSERT (ELECTROPLATED)    | 6    |

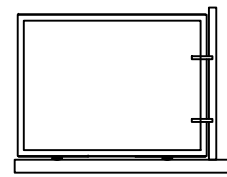
HANDLING INSTRUCTIONS



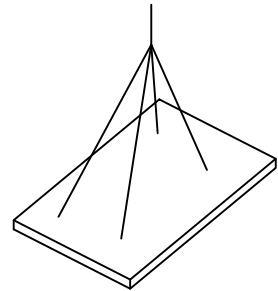
STRIPPING-TILT TABLE



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: 18,770 LBS.              |                    |
| FINISHING INSTRUCTIONS           |                    |

|                       |                         |
|-----------------------|-------------------------|
| MF = MAG FLOAT FINISH |                         |
| FF = FORM FINISH      |                         |
| L = 30'-0 3/8"        | SQ.FT.(T.I.F.) = 300.27 |
| 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                  |

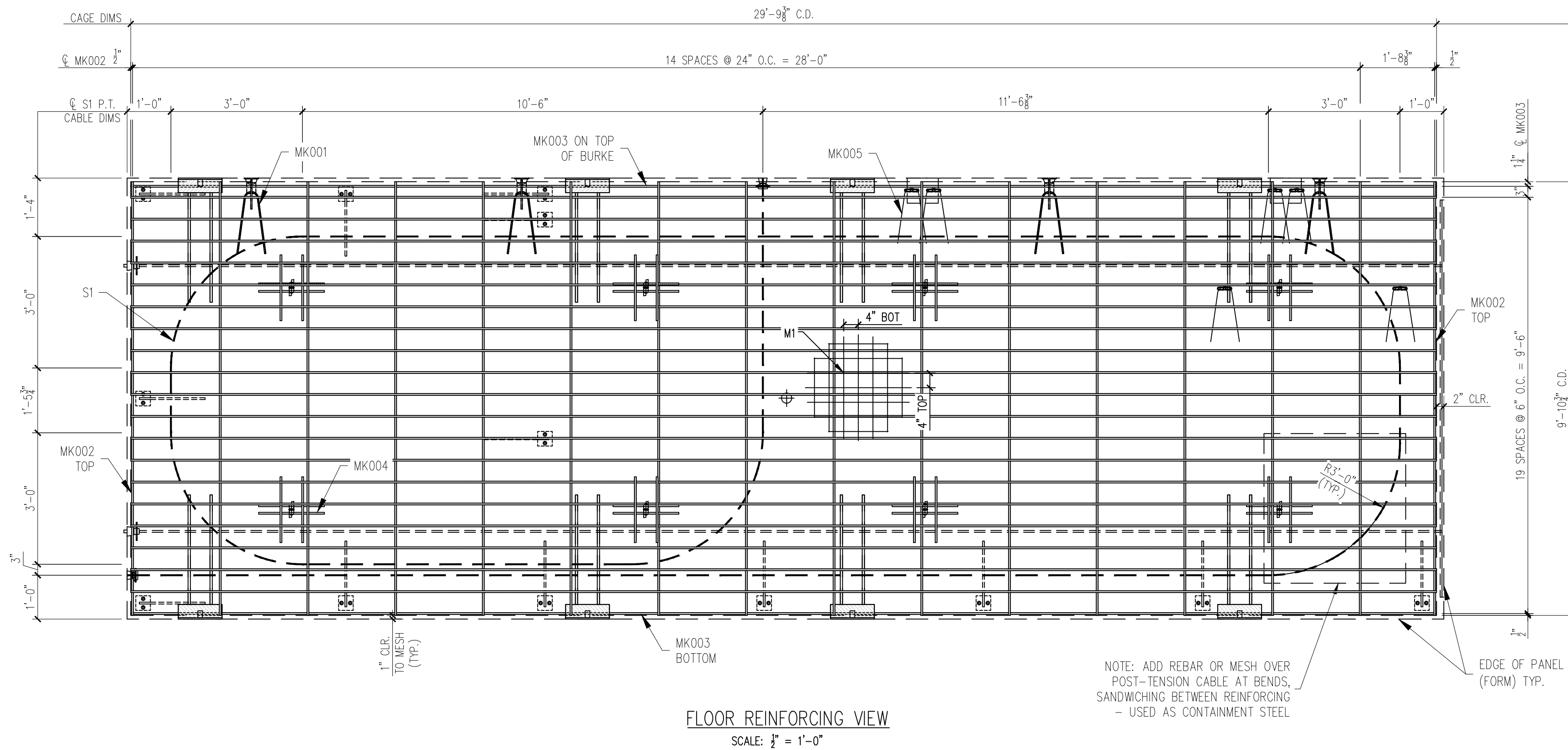
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www.EasiSet.com • 800-547-4045 • Fax 540-439-2541

| DATE | REV | DESCRIPTION |
|------|-----|-------------|
| -    | -   | -           |
| -    | -   | -           |
| -    | -   | -           |
| -    | -   | -           |

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

|                        |
|------------------------|
| SCALE<br>NTS           |
| DRAWN BY<br>FTL        |
| CHECK BY<br>WCR        |
| ISSUE DATE<br>08.04.26 |
| PIECE MARK<br>FP-02    |

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

| REINFORCING SCHEDULE |                                         |  |      |
|----------------------|-----------------------------------------|--|------|
| MARK #               | DESCRIPTION                             |  | QTY. |
| MK001                | #4 X 4'-0"                              |  | 4    |
| MK002                | #3 X 9'-10 3/4"                         |  | 16   |
| MK003                | #3 X 29'-9 1/4"                         |  | 21   |
| MK004                | #4 X 1'-6"                              |  | 32   |
| MK005                | #3 X 3'-0"                              |  | 6    |
|                      |                                         |  |      |
|                      |                                         |  |      |
|                      |                                         |  |      |
| S1                   | 1/2" Ø X 91'-2" LONG P.T. CABLE         |  | 1    |
| MESH SCHEDULE        |                                         |  |      |
| MARK #               | DESCRIPTION                             |  | QTY. |
| M1                   | W4XW4 4"x4" WWF 29'-9 3/8" X 9'-10 3/4" |  | 1    |

25-3470P6  
Baseball Dugout 7B  
ID - CVBS  
Floor - FP-02  
Weight - 18,770  
1 Required

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

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| DATE | DESCRIPTION | INI. | REV |
|------|-------------|------|-----|
| -    | -           | -    | A   |
| -    | -           | -    | A   |
| -    | -           | -    | A   |
| -    | -           | -    | A   |
| -    | -           | -    | A   |

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

|                     |
|---------------------|
| SCALE NTS           |
| DRAWN BY FITL       |
| CHECK BY WCR        |
| ISSUE DATE 08.04.26 |
| PIECE MARK FP-02    |

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

**Material Data**

(7) Wire lo-lax Strand - ASTM A416

$\Phi_{ps}$  0.500 in,

A= 0.153 in<sup>2</sup>

E= 28500000 psi

f<sub>pu</sub>= 270 ksi

Strand Length **1058 in**

Assume (Info supplied by strand manufacturer)

k= 0.0007 Wobble Friction Coeff.

$\mu$ = 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 = 515 lbs lbs  $\alpha = \text{curvature} = \pi(2.5) \quad 7.85 \text{ radians}$

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

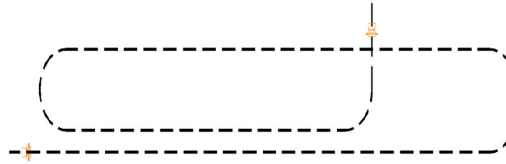
Elong. Adjustment = 0.639 in

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  
ID - CVBS  
Floor - FP-02  
Weight - 18,770  
1 Required**