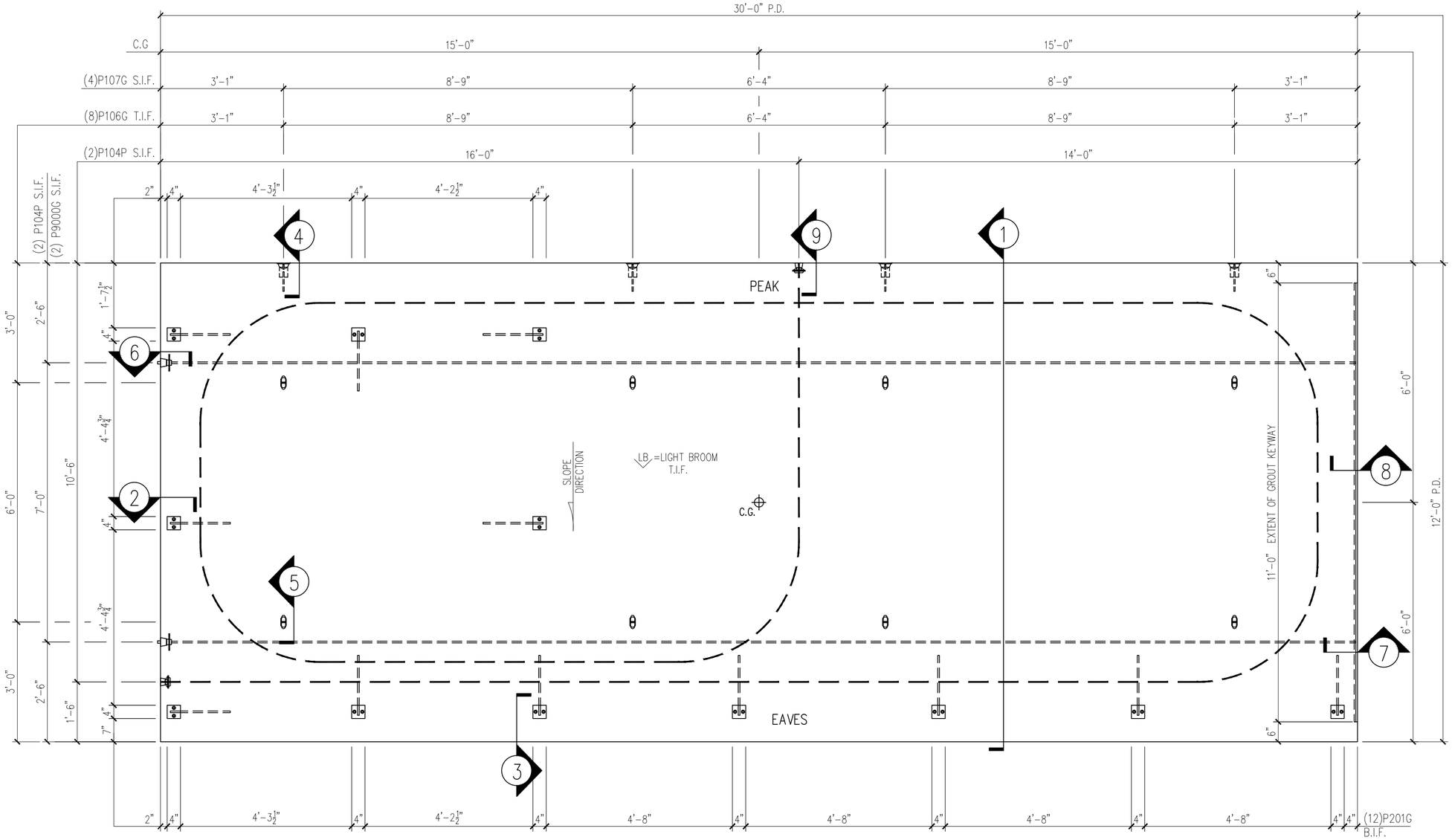


ROOF FORM VIEW

SCALE: ½" = 1'-0"

25-3470P7

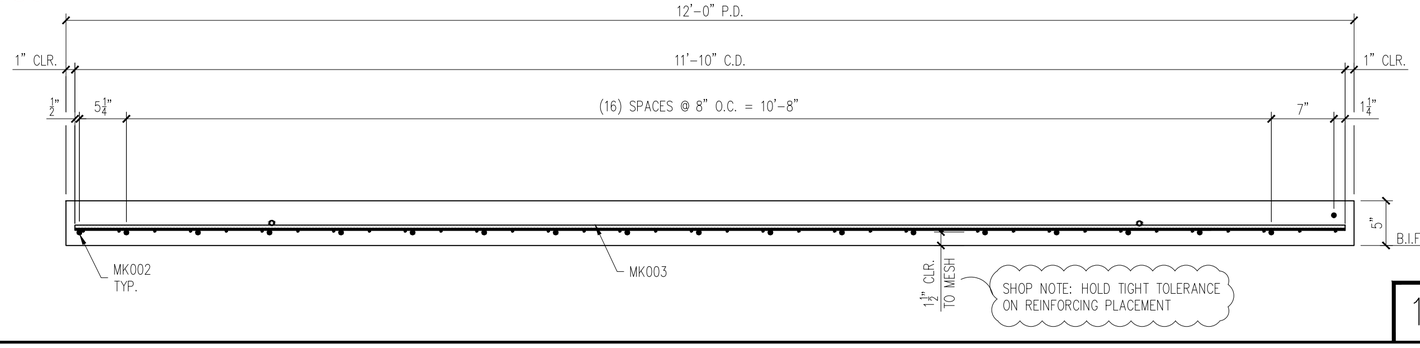
Baseball Dugout 7C

ID - CTS

Floor - RP-02

Weight - 22,500

1 Required

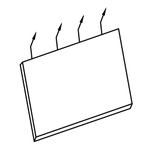


1

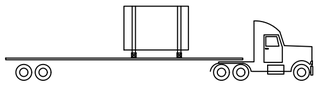
BILL OF MATERIALS

MARK #	DESCRIPTION	QTY.
P201G	4"x4"x⅜" W/(2) ⅝"ø x1½" H.A.S. W/1'-4" BENT REBAR (GALVANIZED)	12
P104P	U-5 POST TENSION ANCHOR (PLAIN) WITH PLASTIC POCKET	4
P107G	4 TON RL-4 TECH ERECTION ANCHOR (79548SP) (GALVANIZED)	4
P106G	2 TON PLATE ANCHOR QL128G OR EQUAL (GALV.)	8
P9000G	1"ø E.M.T. TUBE 29'-10½" LONG (GALV.)	2

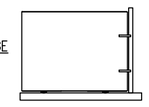
HANDLING INSTRUCTIONS



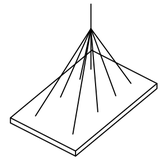
STRIPPING-TILT TABLE



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 = 5.55 C.Y.
CONCRETE - MIX 1	VOLUME = - C.Y.
CONCRETE - MIX 2	VOLUME = - C.Y.
SOFT SOUND	VOLUME = - C.Y.
TOTALS	VOLUME = 5.55 C.Y.

WEIGHT: 22,500 LBS.

FINISHING INSTRUCTIONS

LB = LIGHT BROOM FINISH

FF = FORM FINISH

L = 12'-0"	SQ.FT.(T.I.F.) = 360.0
W = 30'-0"	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 EXTERIOR FINISH CAST FACE UP

CHECKED BY: DATE:

APPROVED BY: DATE:

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

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

SCALE NTS

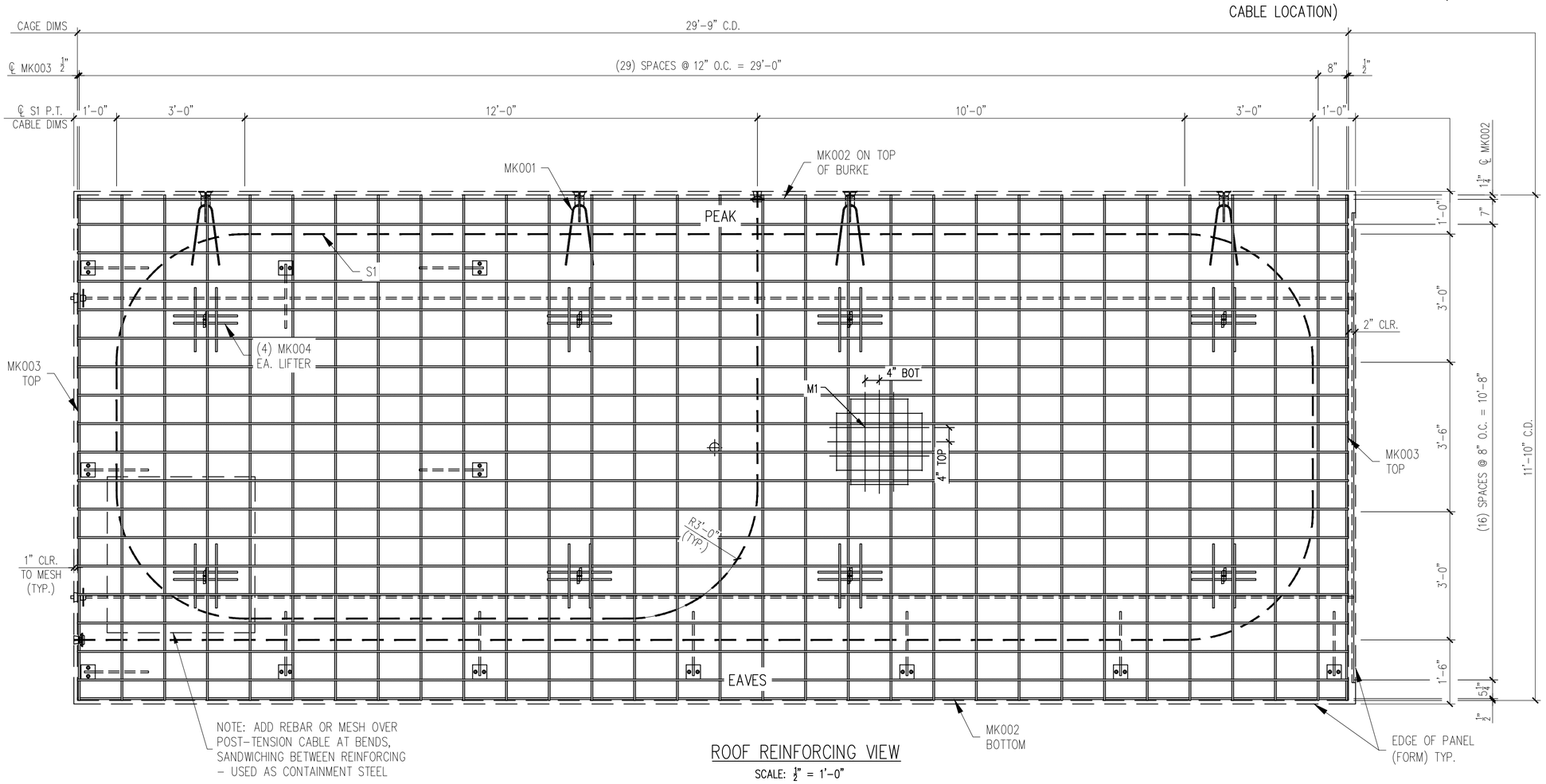
DRAWN BY FTL

CHECK BY WCR

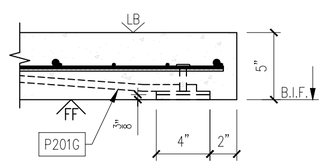
ISSUE DATE 08.05.26

PIECE MARK RP-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)



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



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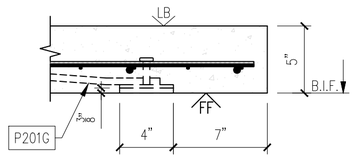

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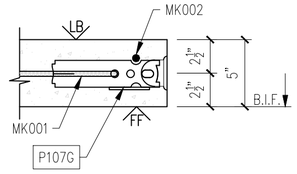

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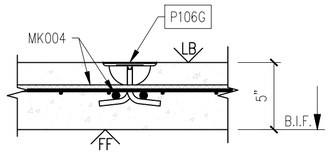

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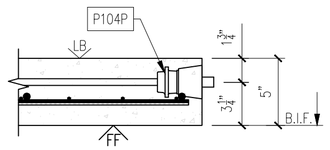

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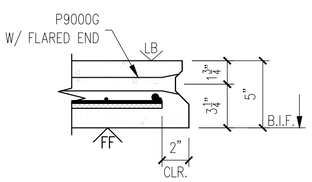

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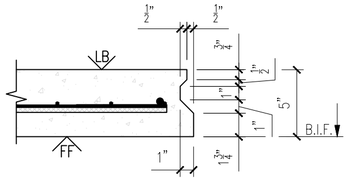

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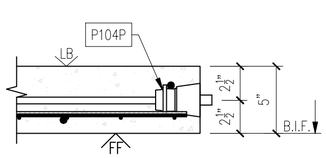

9

10

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:

REINFORCING SCHEDULE

MARK #	DESCRIPTION	QTY.
MK001	#4 X 4'-0"	4
MK002	#3 X 29'-9"	19
MK003	#3 X 11'-10"	31
MK004	#4 X 1'-6"	32
S1	1/2"ø X 97'-0" LONG P.T. CABLE	1

MESH SCHEDULE

MARK #	DESCRIPTION	QTY.
M1	W4XW4 4"X4" WWF 29'-9" X 11'-10"	1

25-3470P7
Baseball Dugout 7C
ID - CTS
Floor - RP-02
Weight - 22,500
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	SALES ORDER NUMBER
BUILDING	-
SHEET NUMBER	NUMBER REQUIRED
2 OF 2	1

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

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

SCALE NTS
DRAWN BY FTL
CHECK BY WCR
ISSUE DATE 08.05.26
PIECE MARK RP-02

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EASI-SET BUILDINGS

PT Check for RP-01 & RP-02 60' Dugout(PCI MNL -

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	1128 in

Assume (Info supplied by strand manufacturer)

Cable Configuration

25-3470P7
Baseball Dugout 7C
ID - CTS
Roof - RP-02
Weight - 22,500
1 Required

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

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

= 6.70 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 = 483 lbs lbs α = curvature = π(2.5) 7.85 radians
c) Friction losses $\frac{PD}{PS} = e^{-(kL+\mu\alpha)}$

= 0.632
Avg. strand force = 0.816 18.39% 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
$\frac{PD}{PS} = e^{\frac{-(kL+\mu\alpha)}{2}}$

= 0.795
Avg. strand force over half of tendon = 0.898 10.24% Loss

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

Elong. Adjustment = 0.687 in
Force Adjustment = 2962 lbs

Total Force Required = 32362 lbs OK

Elongation Summary:

		Gross Theoretical Elongation	
Basic Elongation		6.70 in	
Dead End Seating Loss		0.125 in	
Live End Seating Loss		0.125 in	
Friction Losses		0.687 in	
	Total Elongation	7.64 in	
	Rounded	7 10/16 in	
Tolerance limits	-7.0%	7.11 in	7 2/16 in
	+7.0%	8.18 in	8 3/16 in