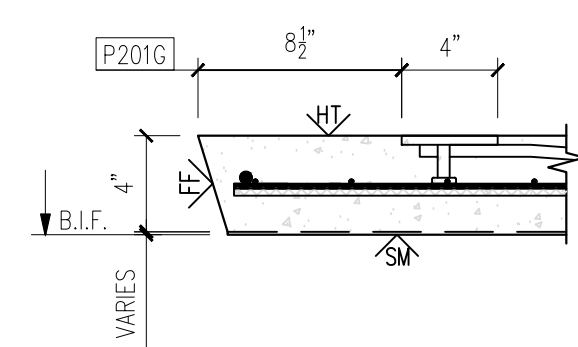
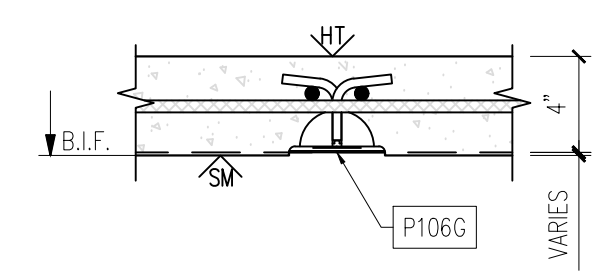
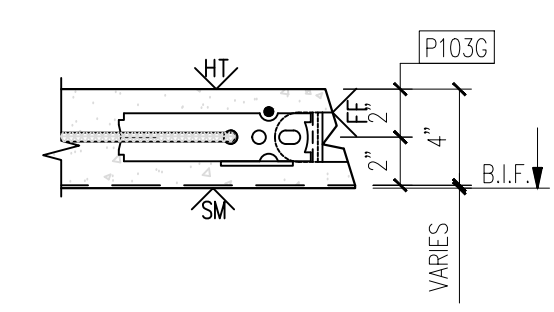
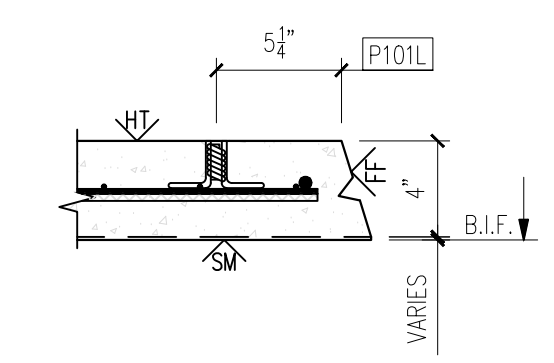
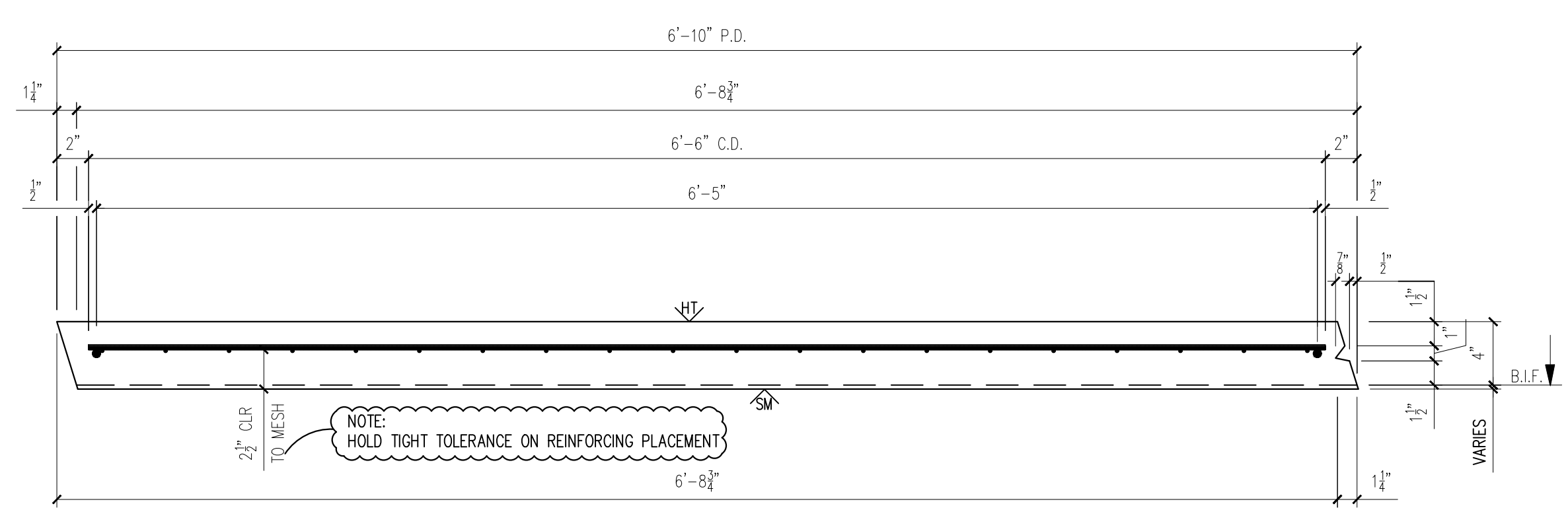
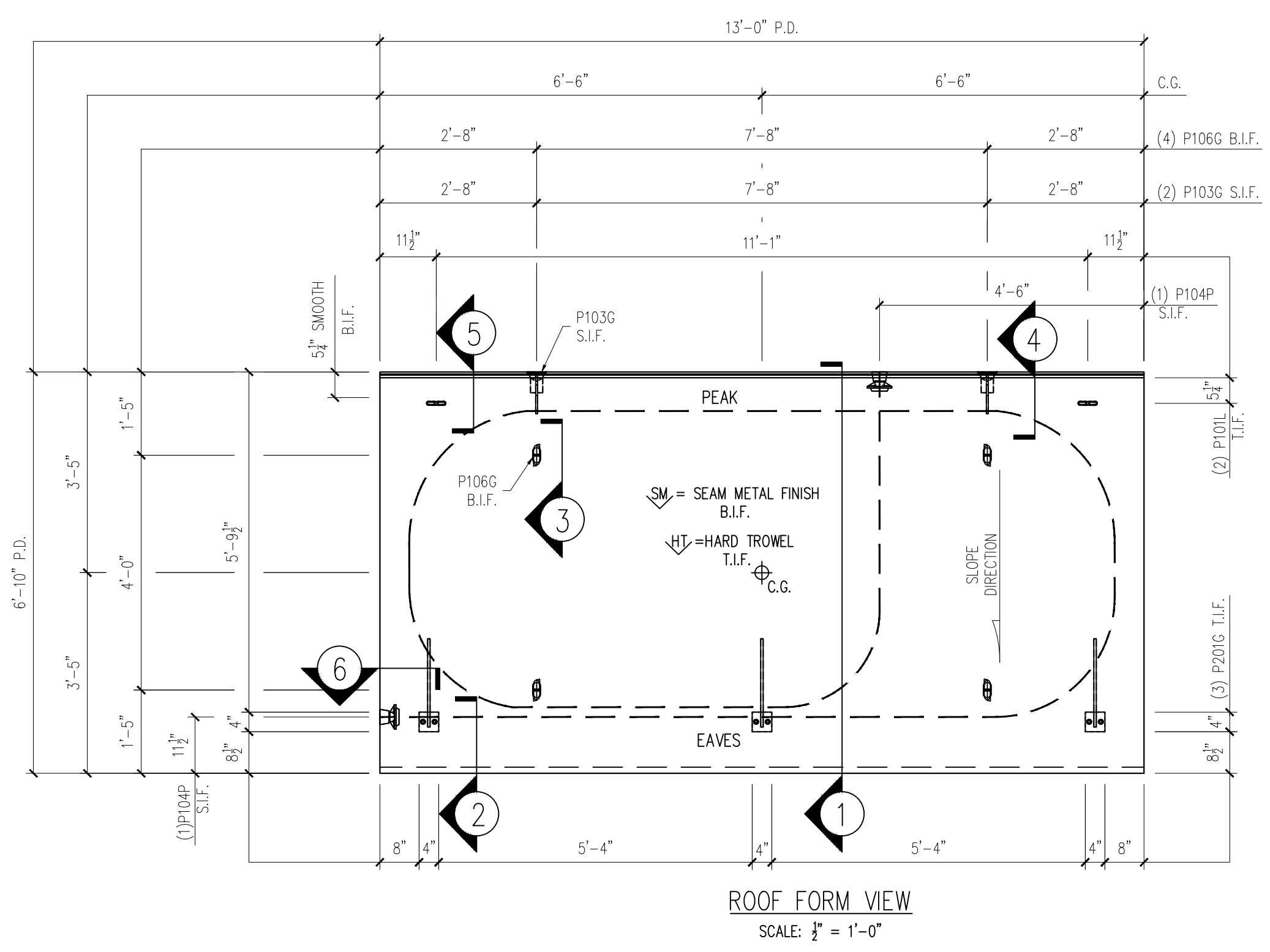


25-4604 - Nashville Road Sewer Interceptor
 Precast Building
 Product ID - CVT
 ROOF - BRFG-10
 Weight - 4,650 LBS Each



1

MESSAGE CENTER

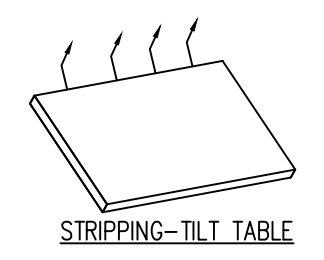
- REFER TO DETAILS FOR REINFORCEMENT/CABLE PLACEMENT
- SHOP TICKET SHOWS EXTERIOR FINISH CAST FACE DOWN

CHECKED BY: _____ DATE: _____
 APPROVED BY: _____ DATE: _____

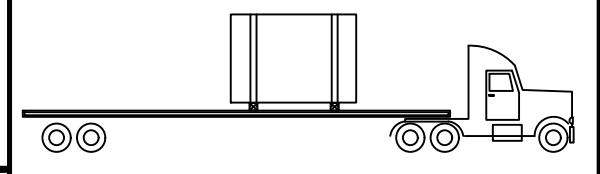
BILL OF MATERIALS		
MARK #	DESCRIPTION	QTY.
P201G	4"x4"x8' W/(2) 3/8" X 1 1/2" H.A.S. W/ 1'-4" BENT REBAR (GALV.)	3
P103G	2 TON TECH ERECTION ANCHOR (GALV.)	2
P104P	U-5 POST TENSION ANCHOR (PLAIN) WITH PLASTIC POCKET	2
P106G	2 TON PLATE ANCHOR (GALV.)	4
P101L	1/2" X 12" F-63 FLARED THIN SLAB COIL INSERT (ELECTROPLATED)	2

HANDLING INSTRUCTIONS

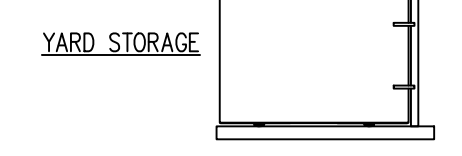
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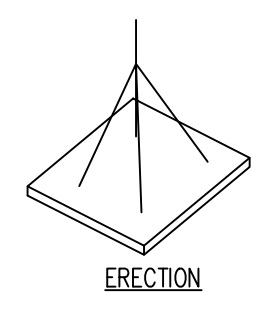
4



3



2



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 = 1.14 C.Y.
CONCRETE - MIX 1	VOLUME = - C.Y.
CONCRETE - MIX 2	VOLUME = - C.Y.
SOFT SOUND	VOLUME = - C.Y.
TOTALS	VOLUME = 1.14 C.Y.
WEIGHT:	4,650 LBS.

FINISHING INSTRUCTIONS

SM = SEAM METAL FINISH
 HT = HARD TROWEL

L = 13'-0"	SQ.FT.(T.I.F.) = 87.49
W = 6'-10"	SQ.FT.(T.I.F.) = -
D = 4"	SQ.FT.(T.I.F.) = -

CONTROL NUMBERS:
 -
 -

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

REV	DESCRIPTION	DATE
INI		
1		
2		
3		
4		

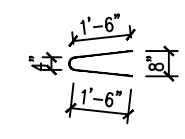
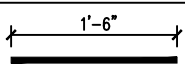
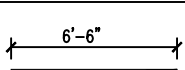
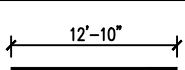
PROJECT: 12"x12" STANDARD EASI-SET GABLED BUILDING
 NASHVILLE ROAD INTERCEPTOR
 BOWLING GREEN, KY
 CONTRACTOR: INFINITY PIPELINE, LLC/WARREN COUNTY WATER DISTRICT

SCALE	NTS
DRAWN BY	FTL
CHECK BY	WCR
ISSUE DATE	03.30.26
PIECE MARK	BRFG-10 (1)

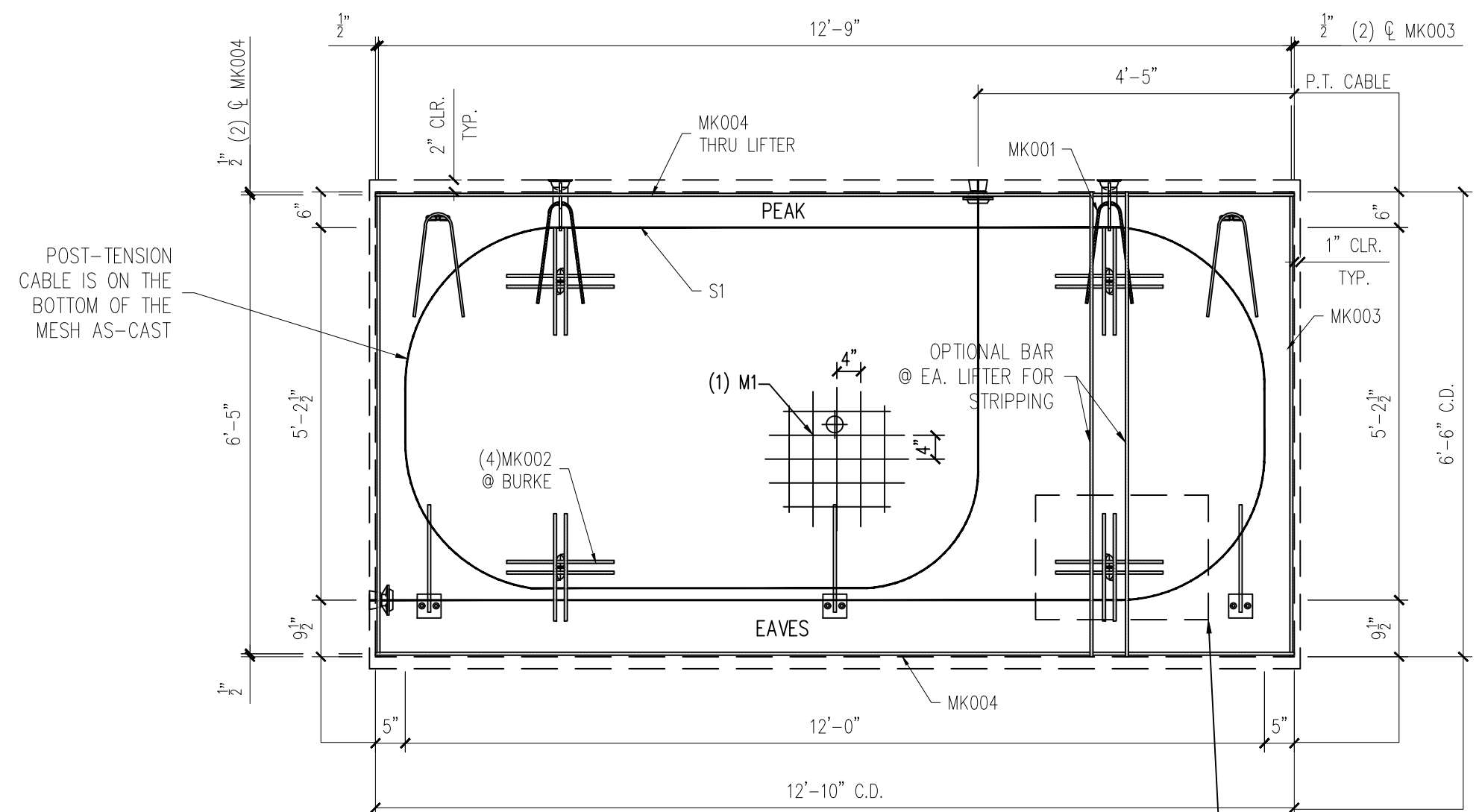
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 5119 Catlett Rd. • Midland, VA 22728 • info@EasiSet.com
 www.EasiSet.com • 800-547-4045 • Fax 540-439-2541

25-4604 - Nashville Road Sewer Interceptor
 Precast Building
 Product ID - CVT
 ROOF - BRFG-10
 Weight - 4,650 LBS Each
 2 Required

NOTE:
 DIMENSIONS PROVIDED ARE PULLED FROM EDGE OF
 CAGE TO CENTERLINE OF REBAR AND TO CENTER
 OF REBAR TO CENTER OF REBAR

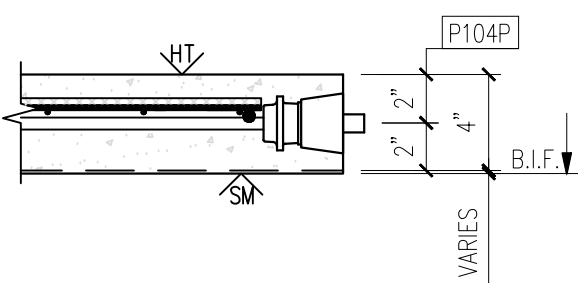
REINFORCING SCHEDULE		
MARK #	DESCRIPTION	QTY.
MK001	#3 X 3'-0" 	4
MK002	#4 X 1'-6" 	16
MK003	#3 X 6'-6" 	2
MK004	#3 X 12'-10" 	2
S1	3/8" Ø X 47'-0" LONG P.T. CABLE	1
MESH SCHEDULE		
MARK #	DESCRIPTION	QTY.
M1	W4XW4 4"x4" WWF 12'-10" X 6'-6"	1

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ROOF REINFORCING VIEW
 SCALE: 3/8" = 1'-0"

ADD REBAR OR MESH OVER
 POST-TENSION CABLE AT
 BENDS, SANDWICHING BETWEEN
 REINFORCING - USED AS
 CONTAINMENT STEEL



6

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:

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 2

REV	INI.	DESCRIPTION	DATE
△			
△			
△			
△			

PROJECT: 12'x12' STANDARD EASI-SET GABLED BUILDING
 NASHVILLE ROAD INTERCEPTOR
 BOWLING GREEN, KY
 CONTRACTOR: INFINITY PIPELINE, LLC/WARREN COUNTY WATER DISTRICT

SCALE NTS
 DRAWN BY FTL
 CHECK BY WCR
 ISSUE DATE 03.30.26
 PIECE MARK BRFG-10 (1)

STRESSING PROCEDURES For Roofs and Floors – Model G121209C

1. Remove form rails. Verify concrete strength with Schmidt Hammer or cylinder breaks. Concrete shall be a minimum of 3,750 PSI before cable can be stressed.
2. Remove recessed plastic pocket-formers at the post-tensioning anchor.
3. Remove the plastic sheath from the strand all the way from the base of the anchor to the end of the strand. Clean off grease from exposed portion of cable. Use a suitable solvent. Never heat or use flame on the cable.
4. Insure that the tapered holes in the anchors are cleaned and free of any debris or cement paste, which might interfere with proper wedge seating.
5. Install wedge sets around the strand at each anchor. Press the wedges in with the fingers evenly. Then, using a hand wedge setter, engage the wedges securely so that the stress will be evenly distributed over the wires of the strand.
6. Slide the stressing jack over the cable and place against the wedges installed in the cast-in anchors (see details A & B).
7. Using manufacturer recommendations, properly secure the stressing jack to the strand.
9. Standing back from the system, engage the jack to stress the strands until the pump pressure gauge corresponds to 33 K required tension on the 1/2" cable and note the elongation achieved. Whenever stressing, be sure to observe safety precautions and operator positioning in anticipation of unexpected failures.
NOTE: Force in the tendons shall always be measured by gauge readings and verified by elongation. Compare the elongation noted during stressing to the theoretical (calculated) elongation to ensure proper pull (tension) is reached. Refer to industry manuals (PCI) for the proper methods of calculating elongation.
10. Release pump pressure slowly and remove the jacking system and temporary stressing anchor. Your post release tension on the cable will be 28.5 K.
11. Cut off strand tails at 1" from the wedge and pack the holes with permanent grout. Repeat procedure for other end of cable

**25-4604 - Nashville Road Sewer Interceptor
Precast Building
Product ID - CVT
ROOF - BRFG-10
Weight - 4,650 LBS Each
2 Required**

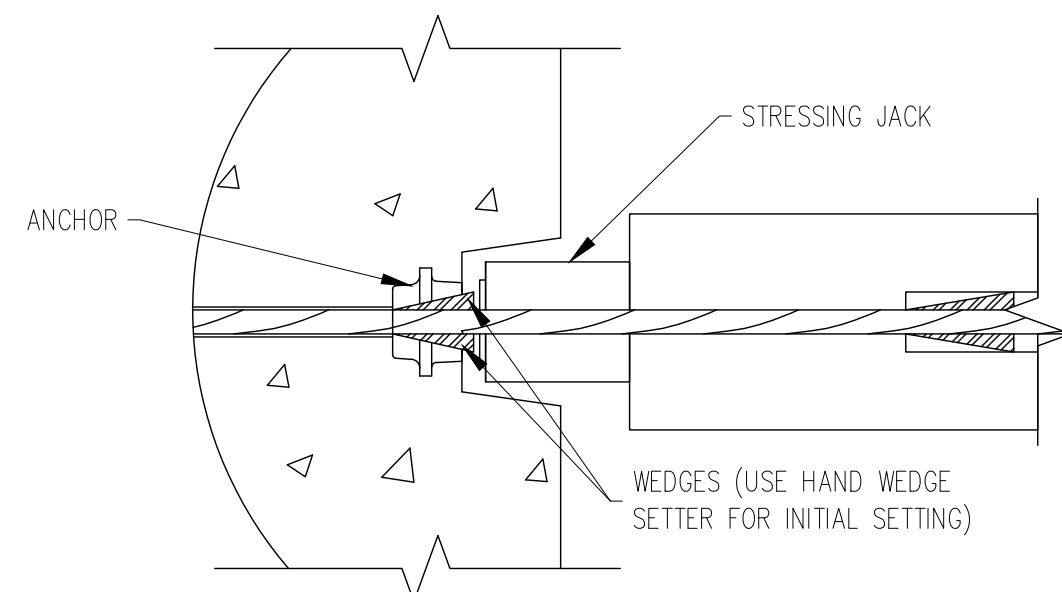
SAFETY INSTRUCTIONS:

NOTE: Stressing units are calibrated against load cells to determine the gauge pressures for a particular unit which will produce the desired engineering force. Gauge pressure versus actual load calibration should be checked every six months against a load cell. Never use equipment which has not been tested in the last 6 months. The Quality Control Department has the responsibility to insure the stressing unit is calibrated semi-annually. Refer to manufacturer for calibration charts specifically relating to the particular unit (stressing jack).

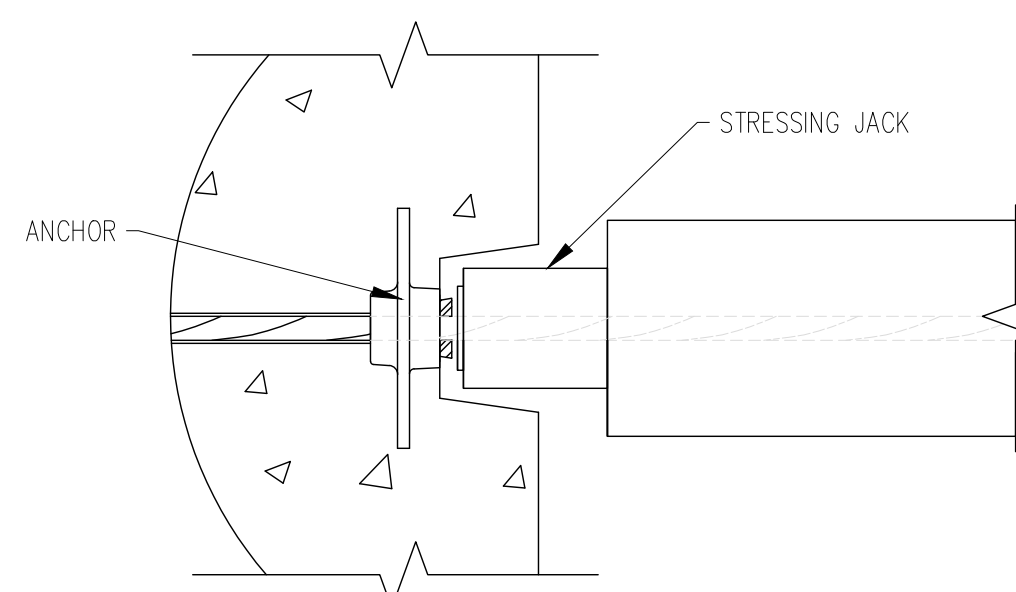
ROOF AND FLOOR POST-TENSIONING Stressing System Safety Instructions:

This equipment is designed and built to provide safety during equipment operation. It must be operated and maintained by personnel who are trained in and follow safe procedures. Since the forces involved in tendon stressing are in the order of 33 to 46 kips, it is obvious that failure from any cause could be damaging to personnel and property. Accordingly, stressing equipment operators are expected to observe all applicable safety precautions including the following but not limited to:

1. Before activating the pump, visually check all elastomeric tubing for nicks, cracks, or other damage and repair or replace if required.
2. See that all tubing joints are tightly connected.
3. Be sure that pump is supported in a stable manner and positioned to avoid strain on connection lines.
4. Be sure that protective dunnage and appropriate safety barriers are erected to protect the operator and any others in the area.
5. Observe the gauge pressure that will develop the required tensile force as marked on the tag attached to the pump. Locate this reading on gauge face.
6. Be certain that tensioning twin-rams are positively engaged and correctly aligned.
7. Activate pump and observe gauge. If pressure does not build up promptly, check system for leakage and make sure that anchors and wedges on both ends of the POLYSTRAND® tendons are properly engaged. After an initial tension on the strand (5K), stop and check for alignment. Make sure that the strand is at the top of the slot provided in the tension jack cylinder connector plates.
8. Continue pumping until final pressure/force is attained. When stressing long tendons, multiple strokes and resetting the temporary anchor will be required. -- CAUTION -- pressure will build extremely fast if rams are fully extended. Monitor ram extension and gauge readings continuously.
9. When the correct force has been applied to the tendon, stop the pump motor and release the pressure on the pack by opening the hydraulic valve.
10. Use care in moving and storing equipment to insure that gauge and tubing are not damaged.
11. Observe site rules pertaining to frequency of gauge calibration.



A



B

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

DATE	DESCRIPTION	INI.	REV.

PROJECT: 12' X 12' X 9'-0"
 EASI-SET GABLED BUILDING
 BOWLING GREEN, KY
 CONTRACTOR: INFINITY PIPELINE, LLC

STRESSING PROCEDURES
 SCALE NTS
 DRAWN BY JAD
 CHECK BY WCR
 ISSUE DATE 03.30.26
 SHEET P-02

PT Check for ROOF Panel (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 = 528 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 = $\frac{\text{(Force required beyond initial tension)} \text{(Length of strand between anchorages)}}{\text{(Area of strand)} \text{(Modulus of Elasticity)}}$
 = 3.14 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 = 1032 lbs lbs α = curvature = π(2.5) 7.85 radians
- c) Friction losses $\frac{PD}{PS} = e^{-(kL + \mu\alpha)}$
 = 0.655
 Avg. strand force = 0.827 17.26% 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

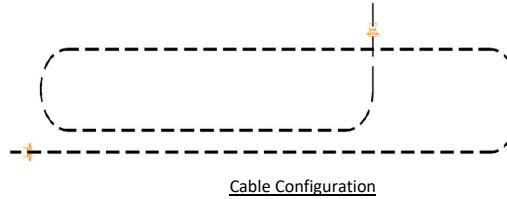
$\frac{PD}{PS} = e^{\frac{-(kL + \mu\alpha)}{2}}$
 = 0.809
 Avg. strand force over half of tendon = 0.905 9.54% Loss

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

- Elong. Adjustment = 0.299 in
- Force Adjustment = 2759 lbs
- Total Force Required = 32708 lbs **OK**

Elongation Summary:

Gross Theoretical Elongation	
Basic Elongation	3.14 in
Dead End Seating Loss	0.125 in
Live End Seating Loss	0.125 in
Friction Losses	0.299 in
Total Elongation	3.69 in
Rounded	3 11/16 in
Tolerance limits	-7.0% 3.43 in 3 7/16 in
	+7.0% 3.95 in 3 15/16 in



25-4604
Nashville Road Sewer Interceptor Precast Bldg.
Stressing Procedures