

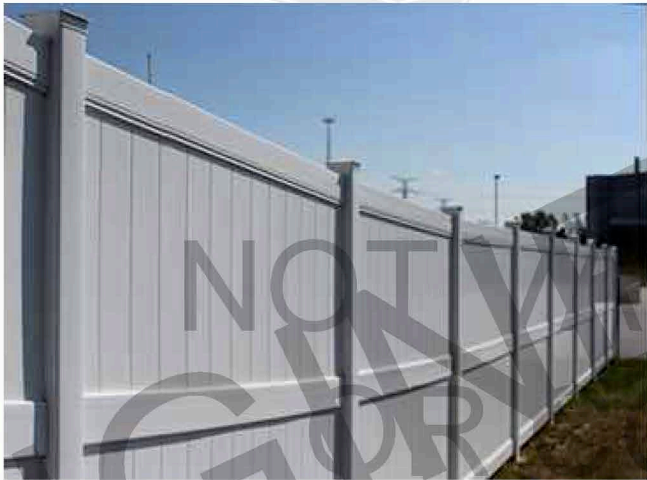
Barrette

PVC VINYL FENCING  
STRUCTURAL INSTALLATION  
AND DESIGN STYLES  
MASTER PLAN

VALID AS A GENERIC SEALED MASTER  
PLAN ONLY FOR UP TO **500 FT** OF  
FENCING AT (1) RESIDENTIAL OR  
COMMERCIAL LOCATION.  
SITE SPECIFIC/ADDITIONAL  
ENGINEERING REQUIRED  
THEREAFTER.

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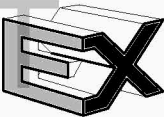


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11. PVC FENCE (PRE-BUILT PANEL STYLE)  
6' X 6" DOGEAR SHADOWBOX 6" BRD

PREPARED  
BY



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PVC VINYL FENCING MASTER PLAN  
FLORIDA BUILDING CODE 7TH ED (2020)  
LOADING PER ASCE 7-16

REMARKS	DRWN	CHKD	DATE
INIT ISSUE (14-1334)	RWN	TSB	4/02/14
2014 FBC	JAC	FLB	9/23/15
2017 FBC	JAC	FLB	3/12/18
2020 FBC & 2022 UPDATE	CCB	FLB	2/22/22

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SCALE: NTS UNLESS NOTED

1 OF 11



NOTES

DESIGN CRITERIA:

INTERNATIONAL BUILDING CODE (2018)  
FLORIDA BUILDING CODE SEVENTH EDITION (2020)  
ASCE 7-16 LOAD COMBINATIONS

1. WIND LOADING INPUTS

1.1. METHODOLOGY.....

1.2. ULTIMATE WIND SPEED.....

WALLS, SIGNS, FENCES

UP TO 115 MPH

(ASD = SQRT(0.6)\*Vult)
- 1.3. WIND EXPOSURE FACTOR.....

1.4. DIRECTIONALITY/OTHER FACTORS.....
- B-C

Kd=0.85, G=0.85,
- 1.5. MAXIMUM SYSTEM HEIGHT.....

1.6. SYSTEM MOUNTING HEIGHT.....

1.7. RESULTANT WIND LOADING
- 6 FEET

0 FEET (AT GRADE)

LATERAL..... UP TO 20 PSF

DESIGN, CODES. AND CALCULATIONS

DESIGN NOTES

1. ALLOWABLE DESIGN PRESSURES UTILIZED IN THIS DOCUMENT HAVE BEEN CALCULATED PER THE REQUIREMENTS OF THE CODES AND STANDARDS STATED HEREIN USING ASCE 7-16 ALLOWABLE STRESS DESIGN METHODOLOGY WITH THE CRITERIA AS OUTLINED HEREIN. THE CONTRACTOR SHALL CONTACT THE AUTHORITY HAVING JURISDICTION TO ENSURE APPROPRIATE CRITERIA TO BE USED BEFORE CONSTRUCTION BEGINS.
2. DIMENSIONS ARE SHOWN TO ILLUSTRATE DESIGN FORCES AND OTHER DESIGN CRITERIA. IN SOME CASES, DETAILS MAY BE INTENTIONALLY ALTERED FOR PRESENTATION PURPOSES. DO NOT SCALE DIMENSIONS ELECTRONICALLY OR OTHERWISE. FIELD INSTALLATION MAY VARY SLIGHTLY BUT MUST REMAIN WITHIN 5% OF THE INTENDED DESIGN. CONTRACTOR IS TO VERIFY ALL FIELD DIMENSIONS PRIOR TO INSTALLATION.
3. THE SYSTEM DETAILED HEREIN IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SPECIFIC SITE. FOR SITE CONDITIONS DIFFERENT FROM THE CONDITIONS DETAILED HEREIN, A LICENSED ENGINEER OR REGISTERED ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE IN CONJUNCTION WITH THIS DOCUMENT.
4. THIS SUBMITTAL IS FOR STRUCTURAL DESIGN PURPOSES ONLY. THIS PRODUCT IS MANUFACTURED BY "BARRETTE OUTDOOR SOLUTIONS." ANY INFORMATION NOT REFERENCED HEREIN SHALL FOLLOW MANUFACTURER'S SPECIFICATIONS FOR PRODUCTS WHICH ARE INCORPORATED HEREIN

CODES & STANDARDS

1. THIS SYSTEM HAS BEEN DESIGNED AND SHALL BE FABRICATED IN ACCORDANCE WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE 7TH EDITION (2020). ALSO APPLICABLE FOR THE FBC 6TH EDITION (2017), IBC/IRC (2015 & 2018), AS WELL AS CURRENT VERSIONS OF THE MN, NC, NJ, NY, OH, SC, & VA BUILDING CODES AS APPLICABLE. CODE ENFORCED COMPLIES WITH STATE OF SEAL AND IF MULTIPLE VERSIONS ARE LISTED THEN MOST STRINGENT APPLIES. CONTRACTOR SHALL INVESTIGATE AND CONFORM TO ALL LOCAL BUILDING CODE AMENDMENTS WHICH MAY APPLY AND GOVERN. DESIGN SHALL UTILIZE ASD DESIGN METHOD USING ASCE 7-16 OR ASCE 7-10 CODES FOR SITE SPECIFIC APPLICATIONS AS APPLICABLE. DESIGN CRITERIA OR SPANS BEYOND STATED HEREIN MAY REQUIRE ADDITIONAL SITE SPECIFIC SEALED ENGINEERING.
2. CONTRACTOR SHALL INVESTIGATE AND CONFORM TO ALL LOCAL BUILDING CODE AMENDMENTS WHICH MAY APPLY. DESIGN CRITERIA BEYOND AS STATED HEREIN MAY REQUIRE ADDITIONAL SITE-SPECIFIC SEALED ENGINEERING.
3. PRODUCT APPROVED FOR USE IN SEISMIC DESIGN CATEGORY A-B PER REQUIREMENTS OF ASCE 7 AND CALIFORNIA BUILDING CODE 2019. FOR SEISMIC DESIGN CATEGORY C-F AND ANY CONCRETE CONNECTIONS, ADDITIONAL REVIEW BY THIRD-PARTY ENGINEERS IS REQUIRED FOR THE VALIDITY OF THE DESIGN.
4. NO 33-1/3% INCREASE IN ALLOWABLE STRESS HAS BEEN USED IN THE DESIGN OF THIS SYSTEM. WIND LOAD DURATION FACTOR Cd=1.6 HAS BEEN USED FOR WOOD ANCHOR DESIGN.

PVC FENCE INSTALLATION & USE

1. THIS FENCE DESIGN TO BE INSTALLED AT GRADE ONLY.
2. USE SHALL BE LIMITED TO DECORATIVE BARRIER PURPOSES ONLY.
3. THIS FENCE IS NOT INTENDED TO MEET CODES GOVERNING ELEVATED BALCONIES OR STRUCTURAL RAILINGS.
4. POOL USE NOT INTENDED FOR THIS PRODUCT UNLESS ACCOMPANIED BY A LETTER FROM A PROFESSIONAL ENGINEER LISTING POOL LIMITATIONS & CONFORMANCE TO THE FOLLOWING STANDARDS:

4.1. NO POOL RAILING SHALL BE UTILIZED AS A LIFE-SAFETY BARRIER.

4.2. PER FBC 424.2.17.1.8: POOL ACCESS GATES WHEN PROVIDED MUST BE AT LEAST 48" ABOVE GRADE & EQUIPPED WITH A SELF CLOSING, SELF LATCHING LOCKING DEVICE NOT LESS THAN 54" FROM BOT OF GATE.

4.2.1. GATE MUST OPEN OUTWARD AWAY FROM POOL & MUST HAVE NO OPENING >1/2" WITHIN 18" OF RELEASE MECHANISM.

4.3. POOL LATCH INSTALLED PER MANUFACTURER'S RECOMMENDATION AND IS NOT INCLUDED IN THIS CERTIFICATION.

STRUCTURAL MATERIALS & CONNECTIONS

STRUCTURAL PVC & VINYL

1. STRUCTURAL PVC & VINYL SHALL CONFORM TO MATERIAL SPECIFICATIONS AS DETAILED BELOW.

1.1. ASTM D-792: SPECIFIC GRAVITY

1.2. ASTM D-256: IZOD IMPACT

1.3. ASTM D-638: TENSILE YIELD STRENGTH

1.4. ASTM D-638: TENSILE MODULUS

1.5. ASTM D-790: FLEXURAL YIELD STRENGTH

1.6. ASTM D-790: FLEXURAL MODULUS

1.7. ASTM D-648: DTUL

1.8. TI02 - TITANIUM OXIDE UV INHIBITOR

=1.45 (±0.02) FOR

= 17.0 FT\*LBS/IN NOTCH

= 6,200 PSI

= 365,000 PSI

= 12,000 PSI

= 410,000 PSI

= 264 PSI @ 72° C

= 10/100

STRUCTURAL ALUMINUM & ALUMINUM WELDING:

1. ALL COMPONENTS SHALL BE STRUCTURAL ALUMINUM (U.N.O.) AND SHALL BE FABRICATED AND ERECTED ACCORDING TO THE GOVERNING BUILDING CODE AND MATERIAL STANDARDS REFERENCED ON THIS SHEET.
2. ALL STRUCTURAL ALUMINUM SHALL BE MIN 1/8" THICK U.N.O. AND BE OF THE FOLLOWING ALLOY AND TEMPER:

- BEAMS, PURLINS, COLUMNS ..... 6005-T5 (UNLESS NOTED OTHERWISE)

- ALL OTHER EXTRUSIONS ..... 6005-T5 (UNLESS NOTED OTHERWISE)

- FASTENERS ..... SS 316
3. WHERE ALUMINUM IS IN CONTACT WITH OTHER METALS EXCEPT 300 SERIES STAINLESS STEEL, ZINC OR CADMIUM AND THE FAYING SURFACES ARE EXPOSED TO MOISTURE, THE OTHER METALS SHALL BE PAINTED OR COATED WITH ZINC, CADMIUM, OR ALUMINUM.
4. UNCOATED ALUMINUM SHALL NOT BE EXPOSED TO MOISTURE OR RUNOFF THAT HAS COME IN CONTACT WITH OTHER UNCOATED METALS EXCEPT 300 SERIES STAINLESS STEEL, ZINC, OR CADMIUM. ALUMINUM SURFACES TO BE PLACED IN CONTACT WITH MASONRY, CONCRETE, WOOD, FIBERBOARD, OR OTHER POROUS MATERIAL THAT ABSORBS WATER SHALL BE PAINTED.
5. FOR ALUMINUM IN CONTACT WITH CONCRETE: ACCEPTABLE PAINTS: PRIMING PAINT (ONE COAT), SUCH AS ZINC MOLYBDATE PRIMER IN ACCORDANCE WITH FEDERAL SPECIFICATION TT-P-645B ("GOOD QUALITY", NO LEAD CONTENT). ALT: HEAVY COATING OF ALKALI RESISTANT BITUMINOUS PAINT. ALT: WRAP ALUMINUM WITH A SUITABLE PLASTIC TAPE APPLIED IN SUCH A MANNER AS TO PROVIDE ADEQUATE PROTECTION AT THE OVERLAPS.
6. ALUMINUM SHALL NOT BE EMBEDDED IN CONCRETE TO WHICH CORROSIVE COMPONENTS SUCH AS CHLORIDES HAVE BEEN ADDED IF THE ALUMINUM WILL BE ELECTRICALLY CONNECTED TO STEEL. EMBEDDED ALUMINUM ELEMENTS WILL BE COVERED WITH PLASTIC TAPE OR OTHERWISE PROTECTED AS PER 2015 ADM M.7.3.
7. BOLT HOLES SHALL BE DRILLED THE SAME NOMINAL DIAMETER AS THE BOLT + 1/16".
8. ALUMINUM WELDING SHALL BE PERFORMED IN ACCORDANCE WITH WELD FILLER ALLOYS MEETING ANSI/AWS A5.10 STANDARDS TO ACHIEVE ULTIMATE DESIGN STRENGTH IN ACCORDANCE WITH THE ALUMINUM DESIGN MANUAL PART I-A, TABLE 7.3.1. ALL ALUMINUM CONSTRUCTION SHALL BE IN CONFORMANCE WITH THE TOLERANCES, QUALITY, AND METHODS OF CONSTRUCTION AS SET FORTH IN THE AMERICAN WELDING SOCIETY'S STRUCTURAL WELDING CODE-ALUMINUM (D1.2). MINIMUM WELD IS 1/8" THROAT FULL PERIMETER FILLET WELD UNLESS OTHERWISE NOTED.
9. THE CONTRACTOR IS RESPONSIBLE TO INSULATE ALL MEMBERS FROM DISSIMILAR MATERIALS TO PREVENT ELECTROLYSIS.
10. ELECTRICAL GROUND, WHEN REQUIRED, TO BE DESIGNED & INSTALLED BY OTHERS.

ANCHORS & FASTENERS

1. ALL FASTENERS TO BE #14 SAE GRADE 2 WITH APPROPRIATE CORROSION RESISTANCE UNLESS NOTED OTHERWISE (FY = 65 KSI MIN). FASTENERS SHALL BE ZINC-PLATED OR OTHERWISE CORROSION-RESISTANT MATERIAL AND SHALL COMPLY WITH "SPECIFICATIONS FOR ALUMINUM STRUCTURES" BY THE ALUMINUM ASSOCIATION, INC., & ANY APPLICABLE FEDERAL, STATE, AND/OR LOCAL CODES.
2. ALL METAL CONNECTORS USED IN LOCATIONS EXPOSED TO WEATHER SHALL BE HOT-DIP GALVANIZED.
3. ALL FASTENERS SHALL BE SPACED WITH 2x DIAMETER END DISTANCE AND 2.5xDIAMETER MIN. SPACING TO ADJACENT FASTENERS, UNLESS NOTED OTHERWISE. PROVIDE (5) PITCHES MINIMUM PAST THE THREAD PLANE FOR ALL FASTENERS.
4. ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS' RECOMMENDATIONS. MINIMUM EMBEDMENT SHALL BE AS NOTED HEREIN. MINIMUM EMBEDMENT AND EDGE DISTANCE ARE DEPTHS INTO SOLID SUBSTRATE AND DO NOT INCLUDE THICKNESS OF STUCCO, FOAM, BRICK, AND OTHER WALL FINISHES. ALL CONCRETE ANCHORS SHALL BE INSTALLED TO NON-CRACKED CONCRETE ONLY.
5. ANCHOR QUANTITIES INDICATED IN DETAILS ARE FOR GRAPHICAL PURPOSES ONLY. DO NOT SCALE DIAMETER, LENGTH, OR PENETRATION(S). HEAD STYLE(S) ARE FREELY INTERCHANGEABLE.

NON-STRUCTURAL ELEMENTS:

THE INSTALLATION OF ANY ACCESSORIES THAT DO NOT AFFECT THE STRUCTURAL INTEGRITY OF THE STRUCTURE ARE OUTSIDE THE SCOPE OF THIS CERTIFICATION AND NOT REQUIRED TO BE CERTIFIED UNDER THIS STRUCTURAL DRAWING. THEY MAY BE INSTALLED WITHIN LIMITATIONS STATED HEREIN AND AS DESIRED PER MFR.

FOUNDATIONS, CONCRETE, AND REINFORCEMENT

FOUNDATION & EARTHWORK

1. SURROUNDING SOIL TO BE WELL COMPACTED BY MECHANICAL MEANS TO 90% OPTIMUM DENSITY, BE FREE OF MUCK AND ORGANICS, AND ACHIEVE 2000 PSF MIN BEARING PRESSURE AND LATERAL BEARING PRESSURE BELOW NATURAL GRADE OF 150 PSF.
2. EXCAVATIONS NEAR ADJACENT FOOTINGS AND FOUNDATIONS SHALL NOT REMOVE LATERAL SUPPORT WITHOUT FIRST UNDERPINNING OR PROTECTING THE THE FOOTING OR FOUNDATION AGAINST SETTLEMENT OR LATERAL TRANSLATION.
3. SOIL SHALL BE CLASSIFIED OR VERIFIED BY OTHERS PRIOR TO CONSTRUCTION AS SAND CLASS OR BETTER. SHOULD OTHER CONDITIONS OR MATERIALS BE ENCOUNTERED THE ENGINEER OF RECORD MUST BE NOTIFIED.

CONCRETE

1. CONCRETE MIXTURES SHALL BE DESIGNED TO REACH A COMPRESSIVE STRENGTH OF 3,000 PSI IN 28 DAYS.
2. ALL MIXING, TRANSPORTING, PLACING, & CURING OF CONCRETE SHALL BE IN ACCORDANCE WITH ACI 318.
3. NO ADMIXTURES ARE TO BE USED WITHOUT THE WRITTEN APPROVAL OF THE ABOVE-SIGNED ENGINEER.
4. CONCRETE SHALL BE TYPE 1 PORTLAND CEMENT MEETING THE REQUIREMENTS OF ASTM C150, AGGREGATES TO MEET ASTM C33. POTABLE WATER SHALL BE USED.
5. SLUMP SHALL BE A MINIMUM OF 3" AND MAXIMUM OF 5" CONCRETE DURING AND IMMEDIATELY AFTER DEPOSITING SHALL BY THOROUGHLY COMPACTED BY MEANS OF MECHANICAL VIBRATION.

REINFORCING STEEL

1. ALL REINFORCEMENT SHALL BE DEFORMED BARS OF INTERMEDIATE GRADE NEW BILLET STEEL CONFORMING TO CURRENT REQUIREMENTS OF ASTM A615, GRADE 60 (U.O.N.), FREE FROM OIL, LOOSE SCALE AND LOOSE RUST AND BENT, LAPPED, PLACED, SUPPORTED AND FASTENED ACCORDING TO THE "ACI DETAILING MANUAL" (SP-66) AND THE ACI 318.
2. ALL WELDING WIRE FABRIC IS TO CONFORM TO ASTM A185 MINIMUM YIELD STRENGTH OF 85 KSI.
3. CLEAR COVER FOR REINFORCEMENT SHALL BE AS FOLLOWS UNLESS OTHERWISE NOTED:

FOOTINGS PERMANENTLY EXPOSED TO EARTH: 3"

UNFORMED FACES EXPOSED TO EARTH: 3"
4. SHOP DRAWINGS MAY BE REQUIRED BY THE CERTIFYING ENGINEER, E.O.R. OR BUILDING DEPARTMENT TO BE SUBMITTED FOR REVIEW AND APPROVAL BEFORE INSTALLATION.

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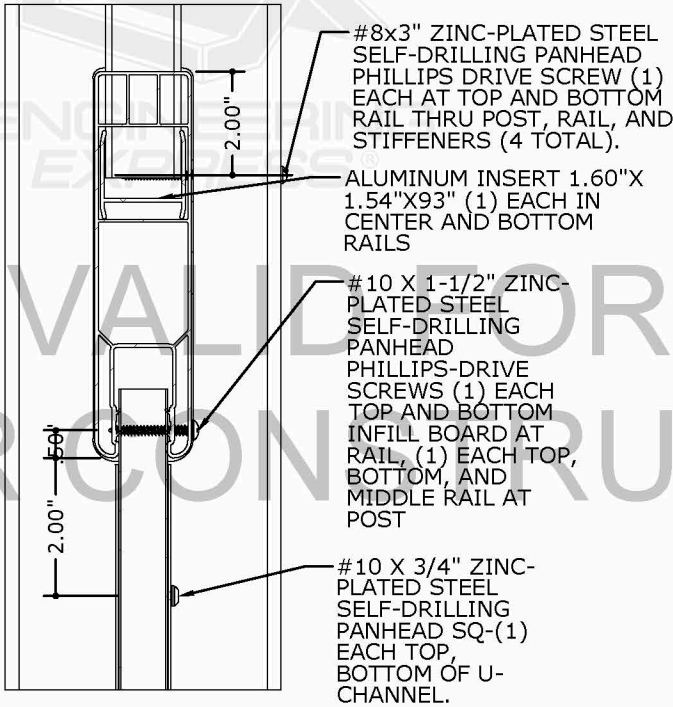
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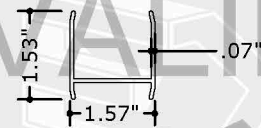
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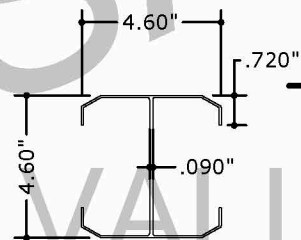
PVC FENCE (PRE-BUILT PANEL STYLE)  
6'x8' CLOSED PICKET TOP  
6'X8' OPEN PICKET TOP  
6'X8' LATTICE TOP



SECTION A-A

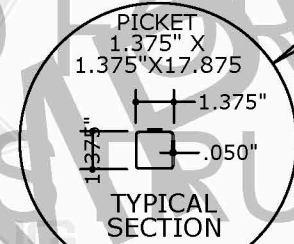


**RAIL INSERT:**  
Mat'l: 6005-T5 ALUMINUM  
Min. Tensile: 38 KSI  
Min. Yield: 35 KSI  
Min. Elongation: 8%

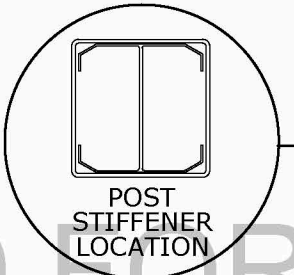


**POST STIFFENER**  
6005-T5 ALUMINUM

STIFFENER TO SPAN FULL LENGTH OF POST



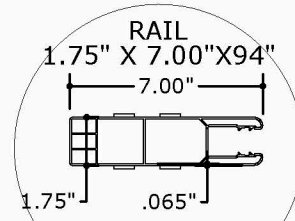
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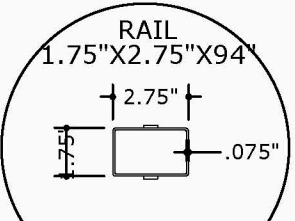
**POST STIFFENER LOCATION**

CONCRETE 3000 P.S.I. MINIMUM

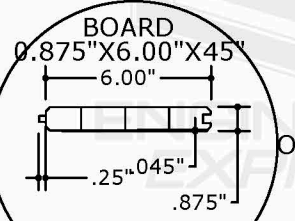
GRAVEL FILL



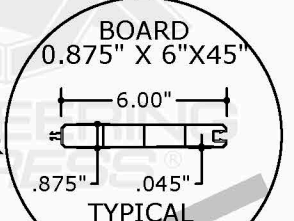
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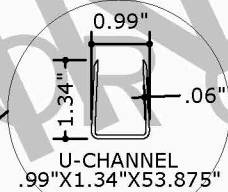
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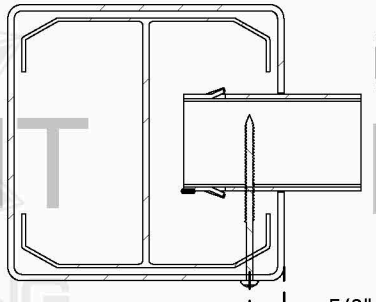
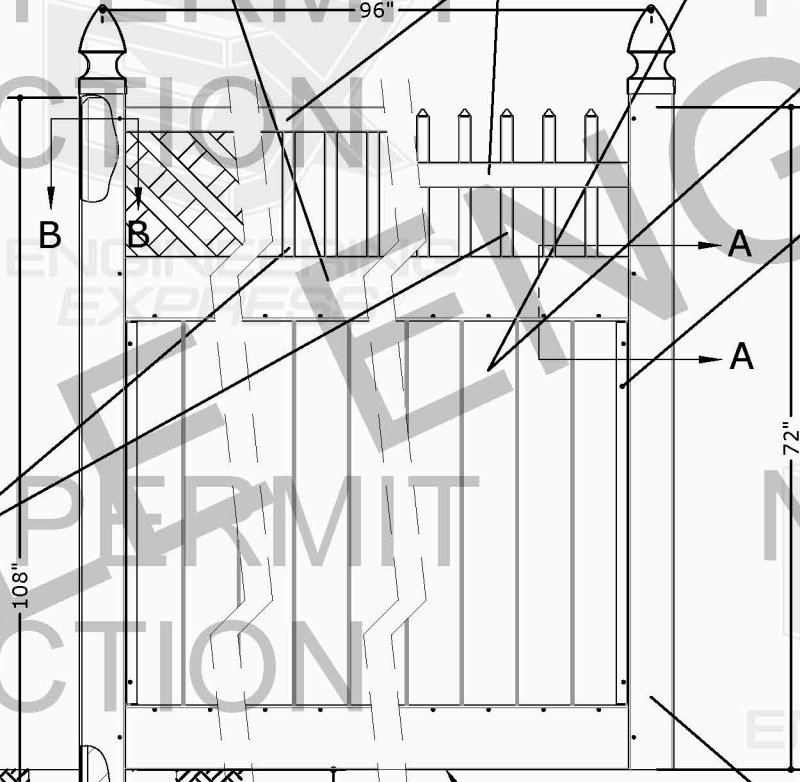
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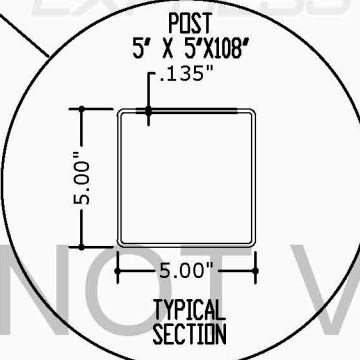
**TYPICAL SECTION**



**U-CHANNEL**  
.99"X1.34"X.875"



SECTION B-B



**TYPICAL SECTION**

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LOADING PER ASCE 7-16

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PVC FENCE  
6X6 PRIVACY PANEL

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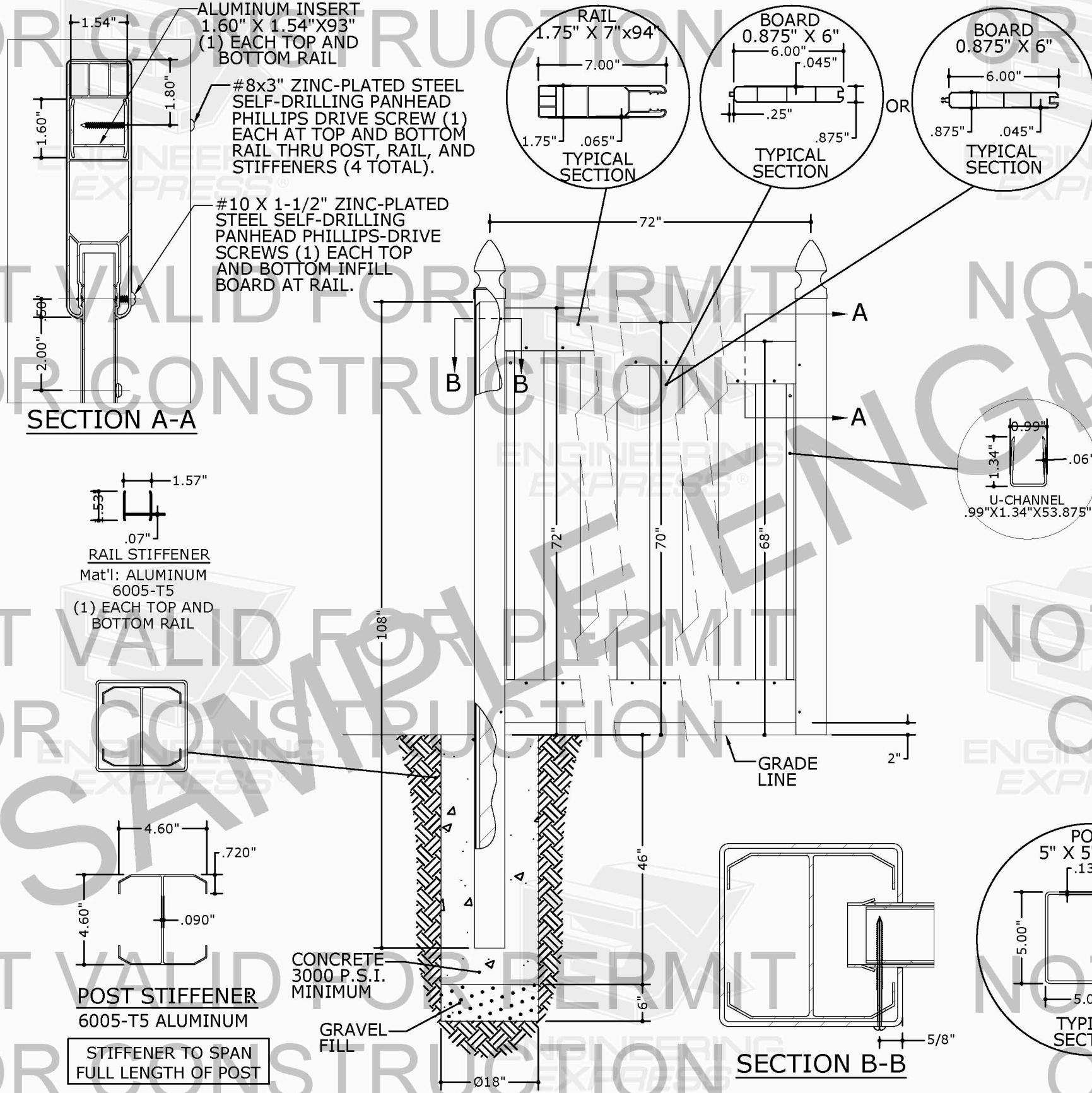
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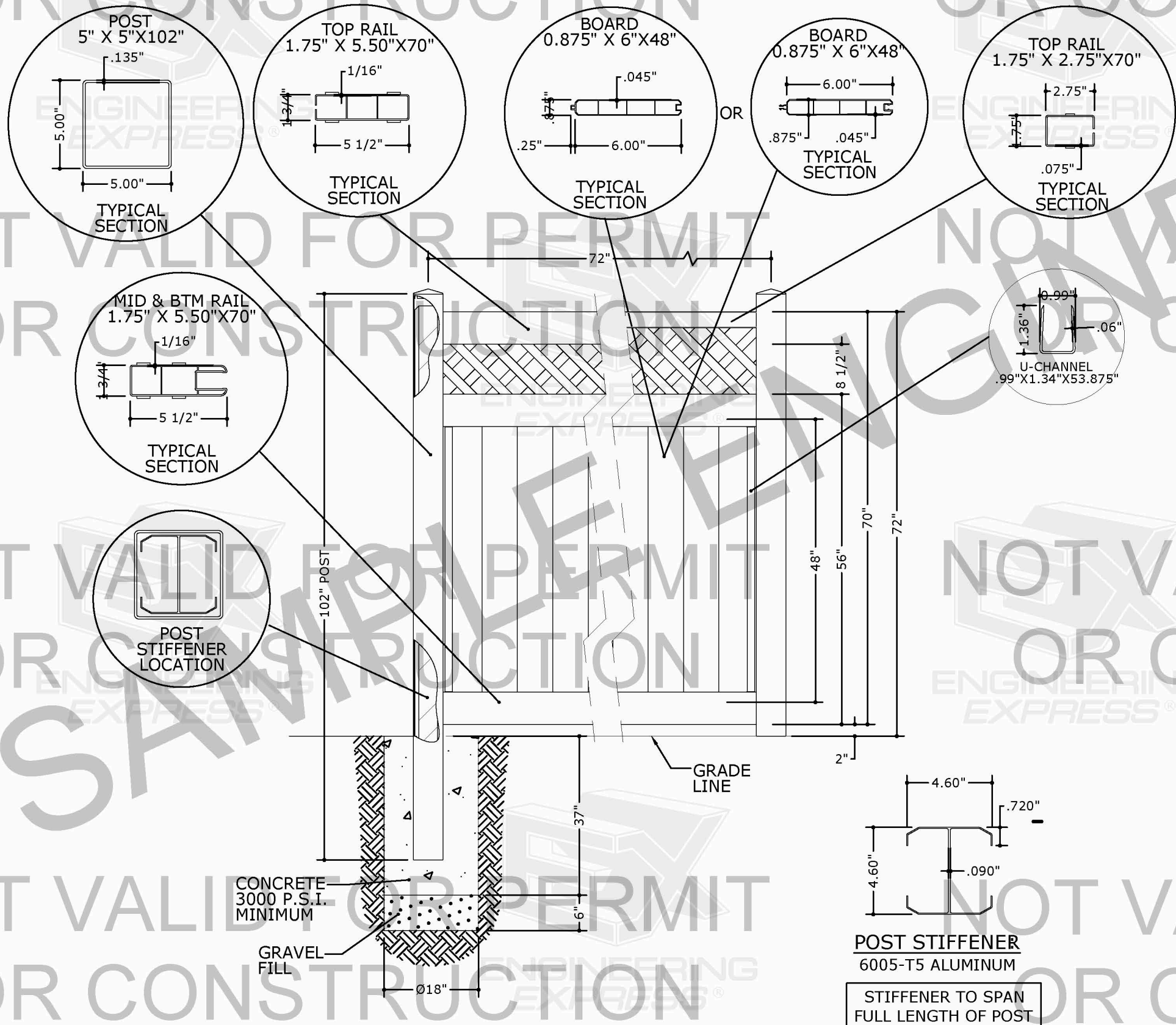


PVC FENCE  
6X6 LATTICE TOP PANEL

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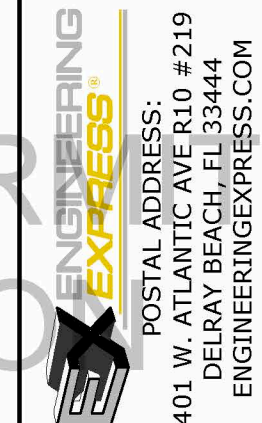
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6X6 PRIVACY PANEL

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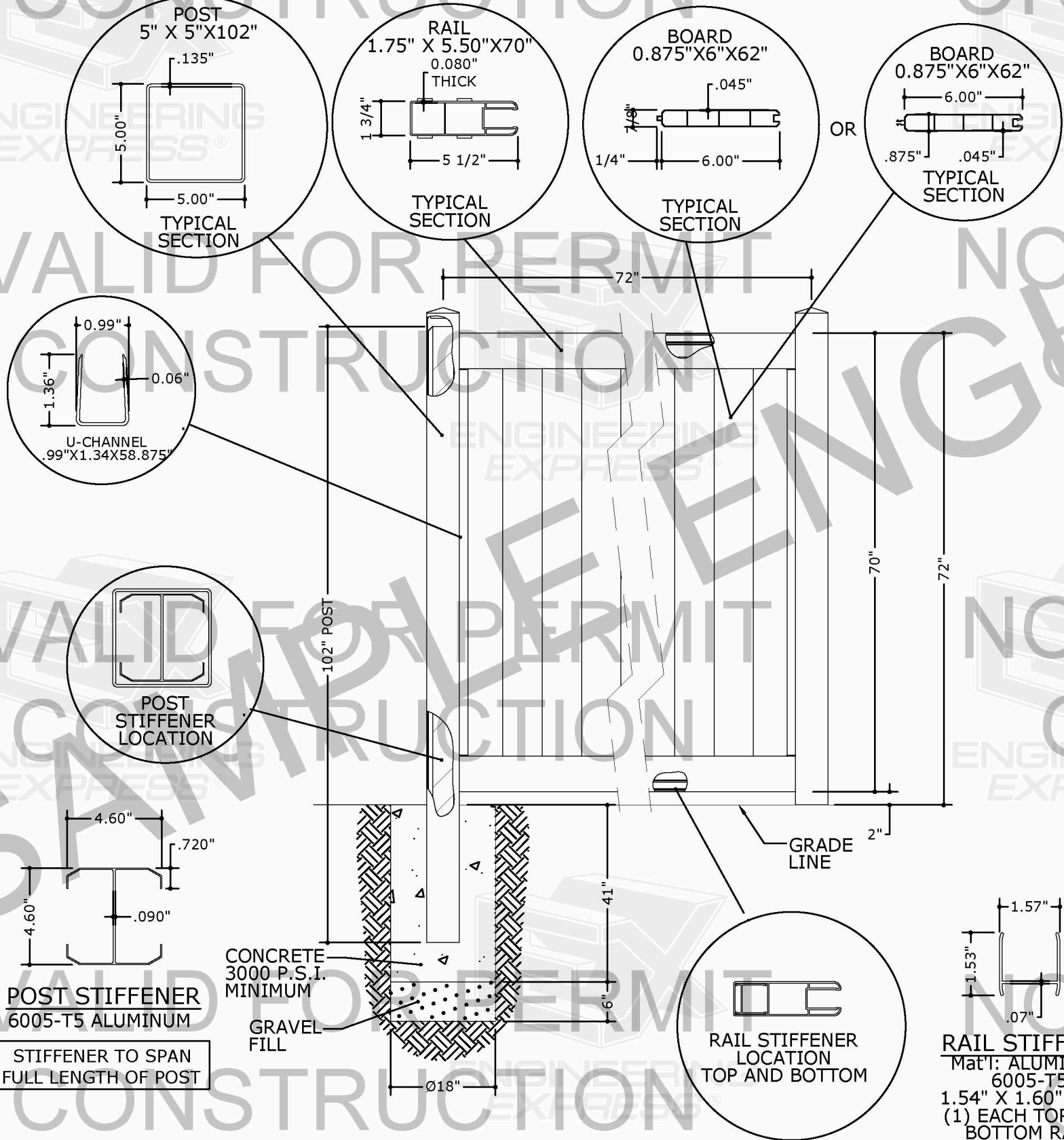
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2020 FBC & 2022 UPDATE

**DATE**

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9/23/15  
3/12/18  
2/22/22

**DRWN**

RWN  
JAC  
JAC  
OCB

**CHKD**

TSB  
FLB  
FLB  
FLB

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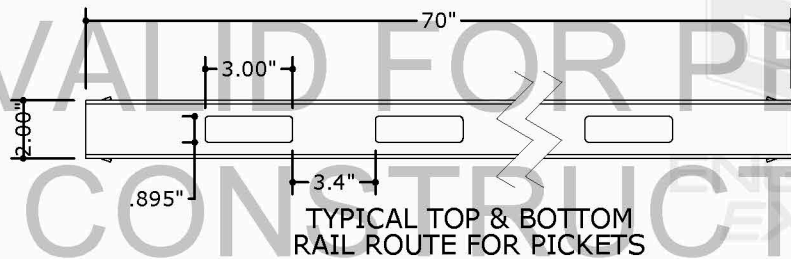
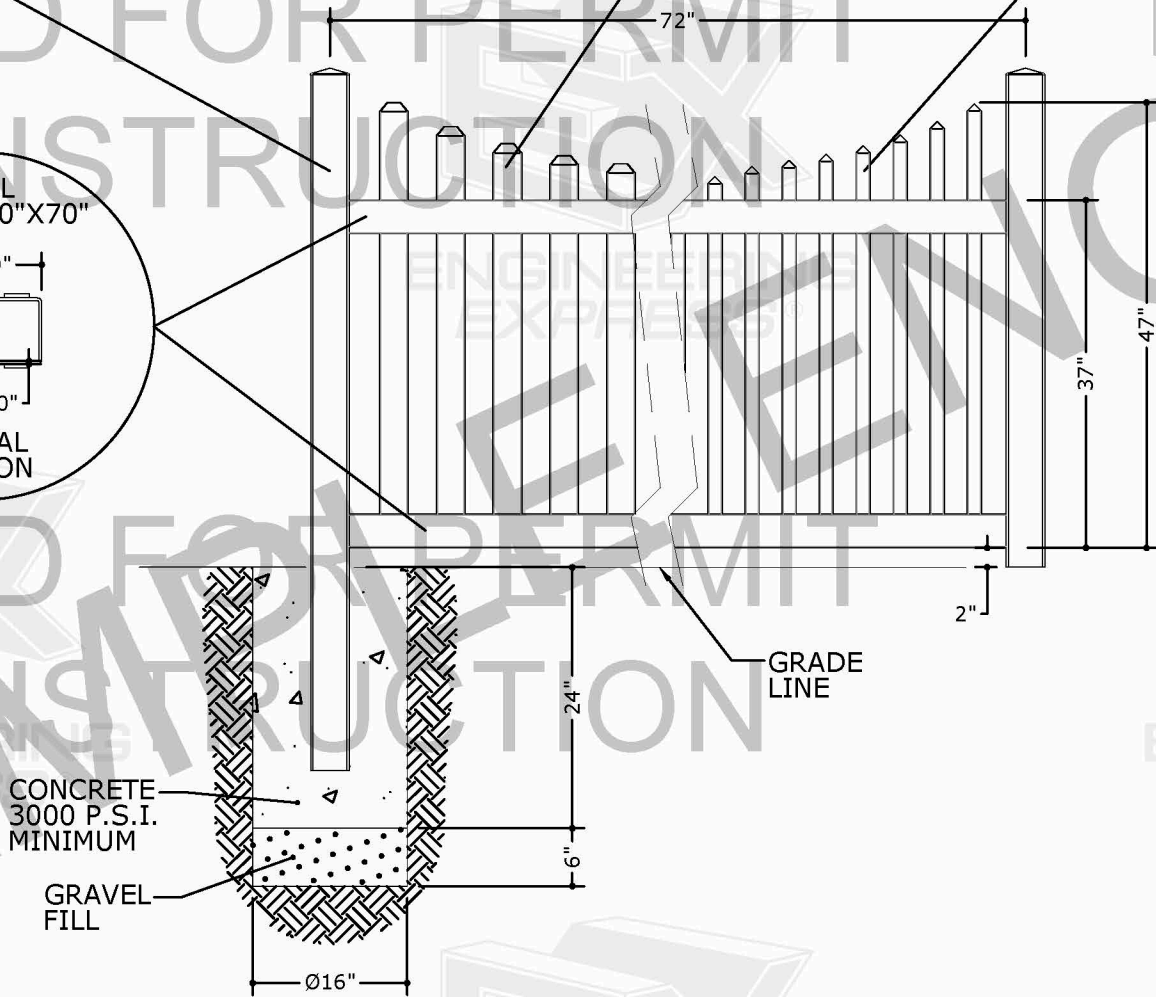
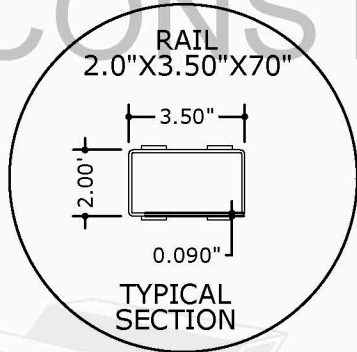
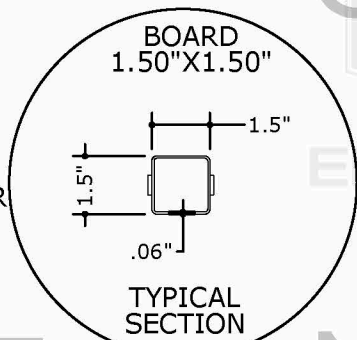
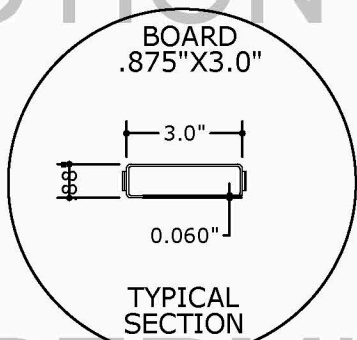
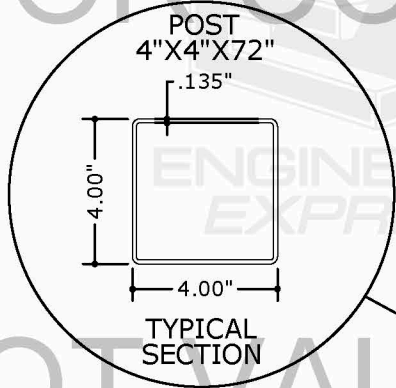
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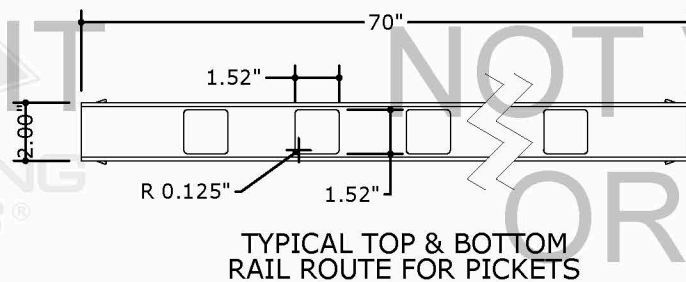


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PVC FENCE  
4X6 CLASSIC SCALLOP PANEL  
4X6 DOGEAR SCALLOP PANEL



OR



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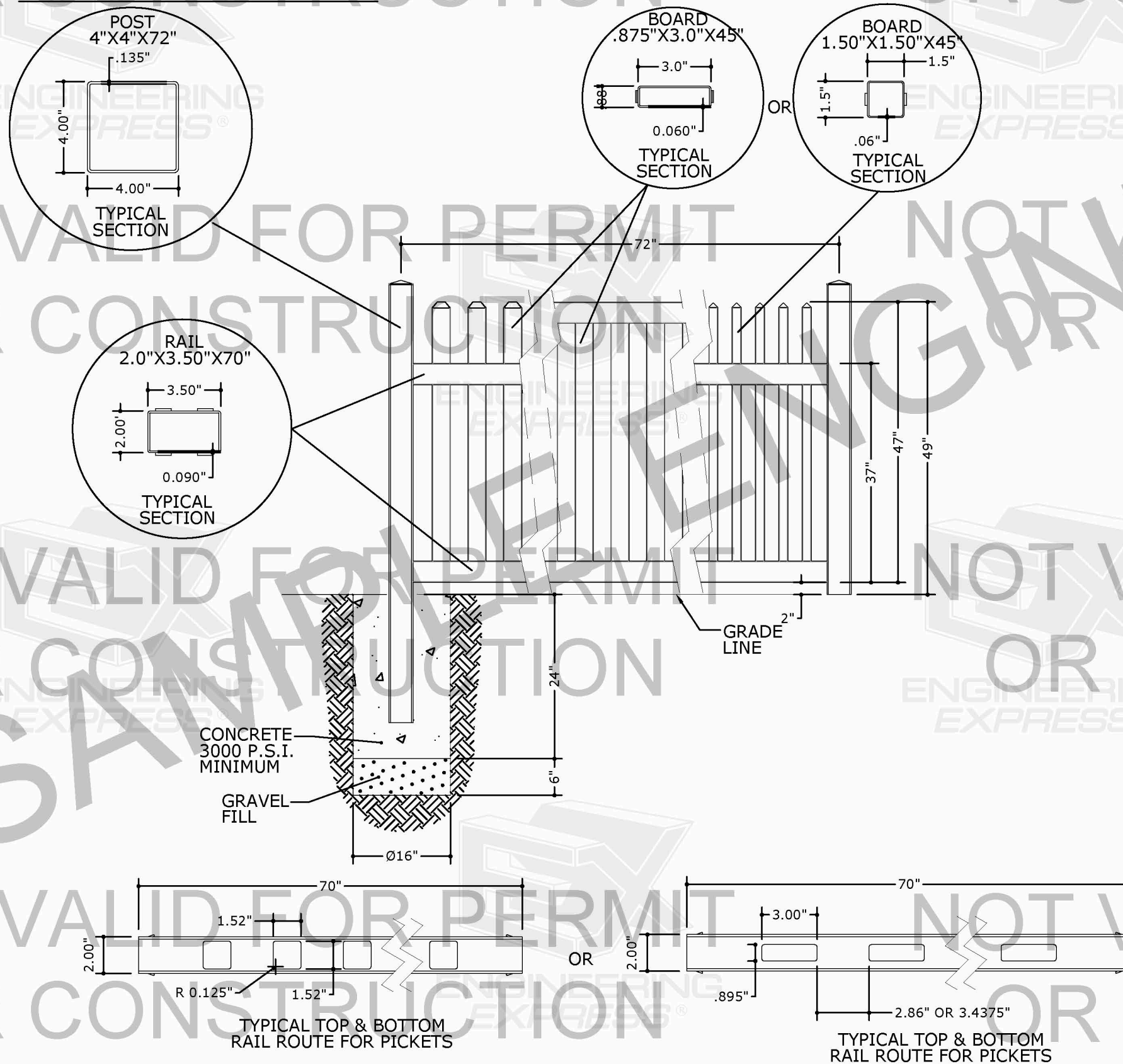
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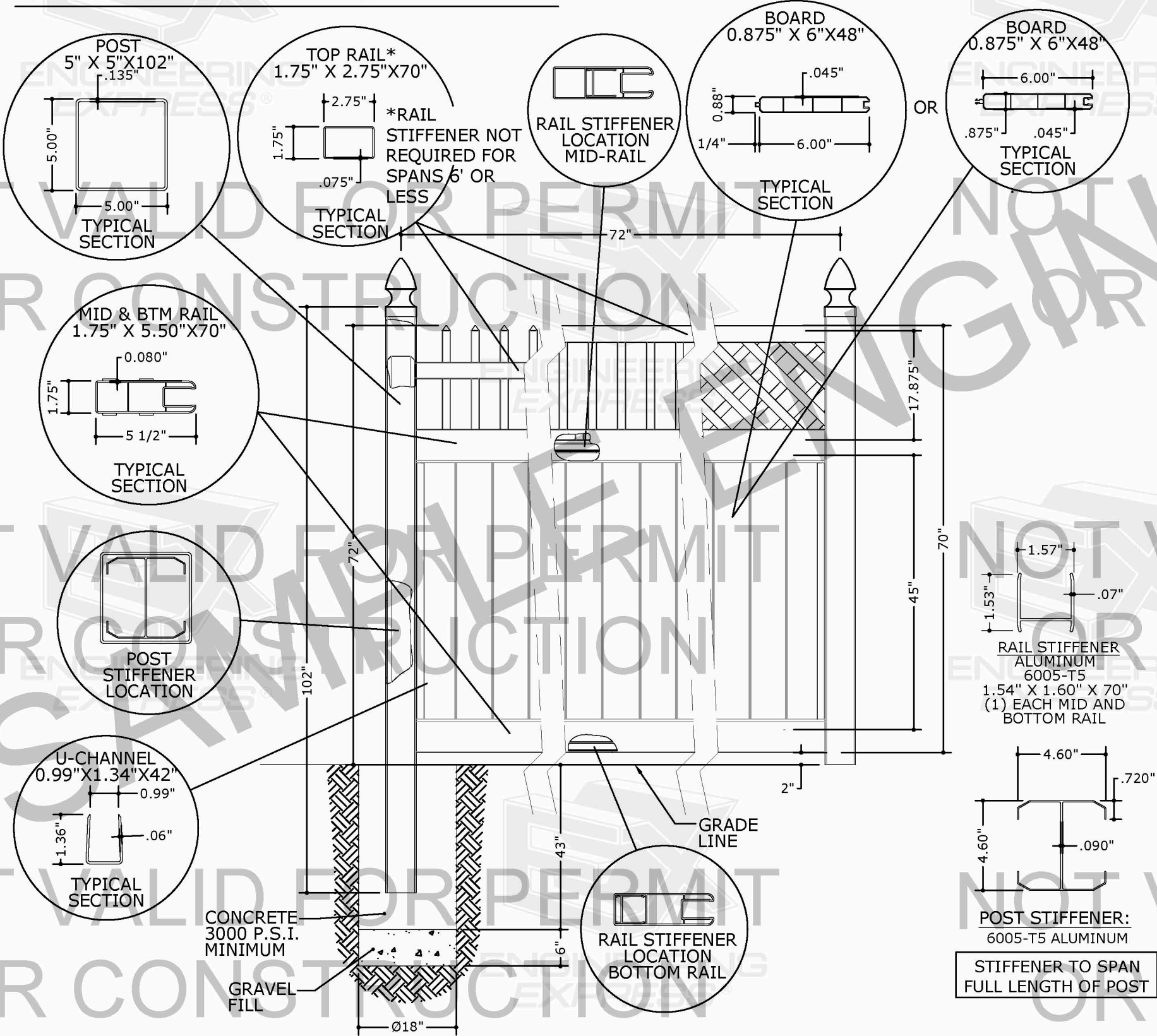
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PVC FENCE  
6'X6' LATTICE TOP PANEL  
6'X6' OPEN TOP PANEL  
6'X6' CLOSED TOP PANEL

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PVC FENCE (PRE-BUILT PANEL STYLE)  
6'X6' AMERICAN DOGEAR SHADOWBOX 6" BRD

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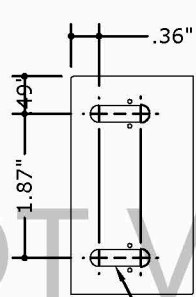
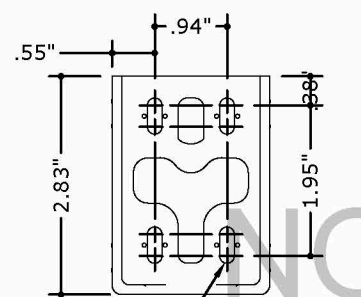
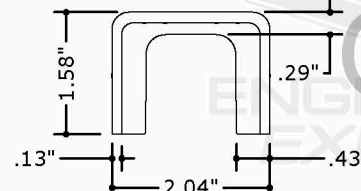
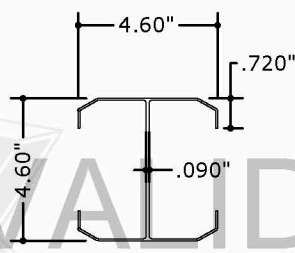
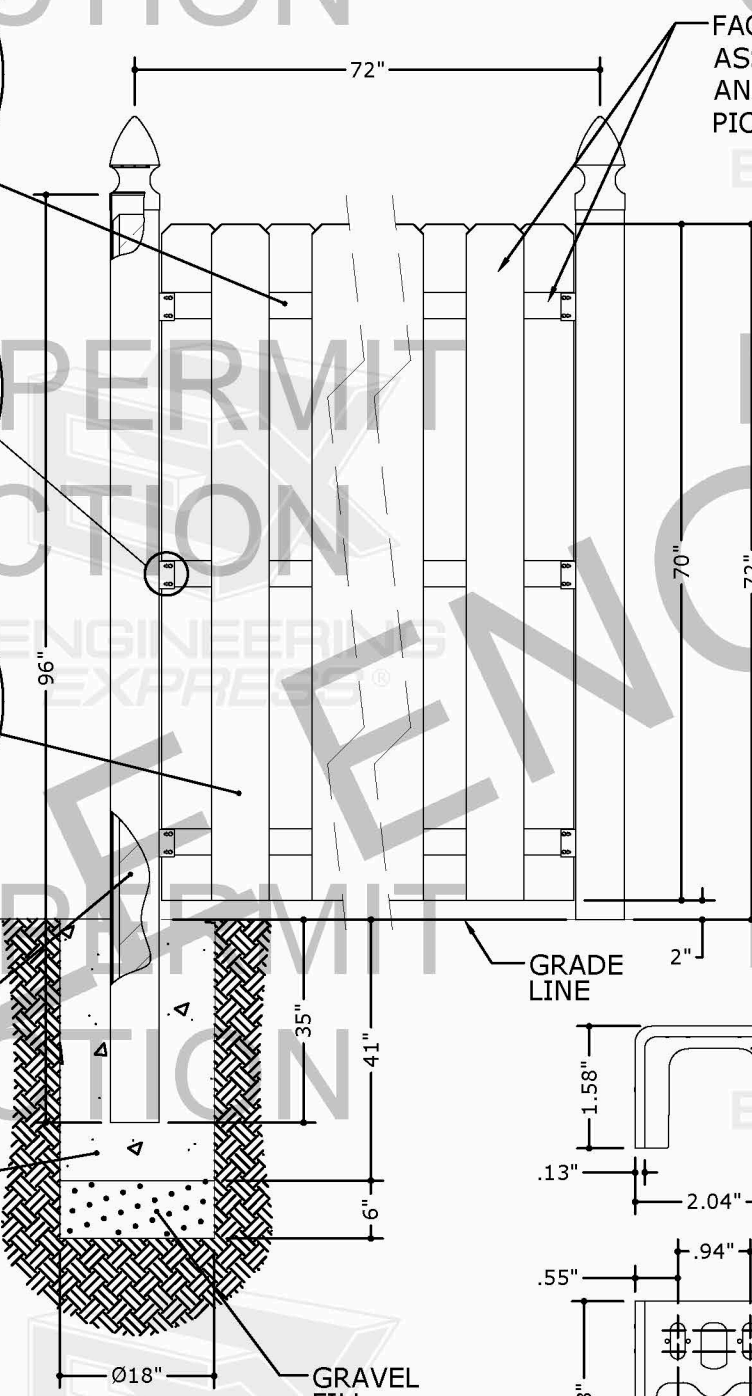
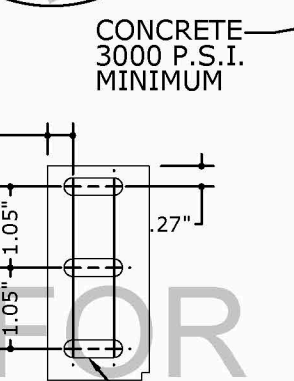
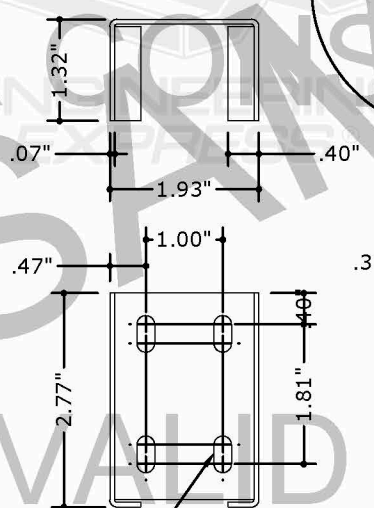
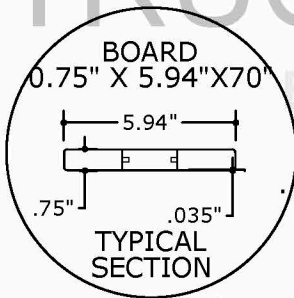
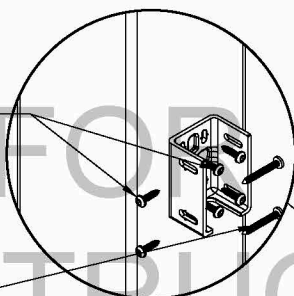
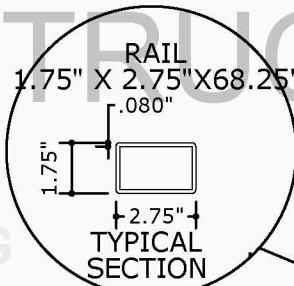
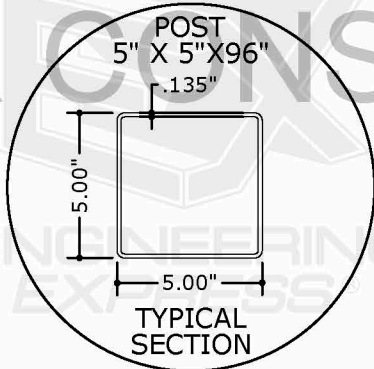
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POST STIFFENER:  
6005-T5 ALUMINUM

STIFFENER TO SPAN  
FULL LENGTH OF POST

SLOT 0.28" X Ø0.20"  
(4) PLACES

SLOT 0.54" X Ø0.24"  
(4) PLACES

FENCE RAIL HANGER BRACKET (ALUMINUM)  
ALUMINUM ALLOY (3003-H14 or 5052-H111) .075" THICK (GAGE)

FENCE RAIL HANGER BRACKET (VINYL)  
INJECTION MOLDED PVC PLASTIC  
GEORGIA GULF UV 6670 PVC

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