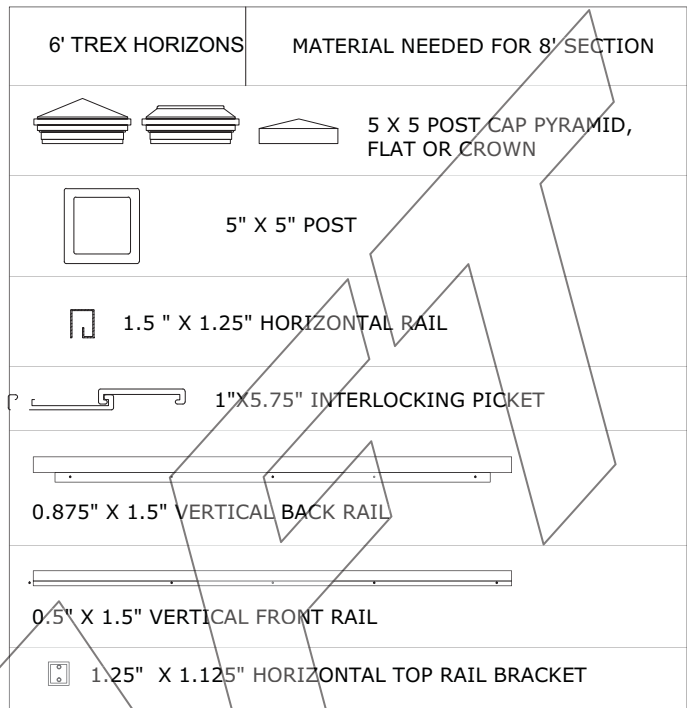
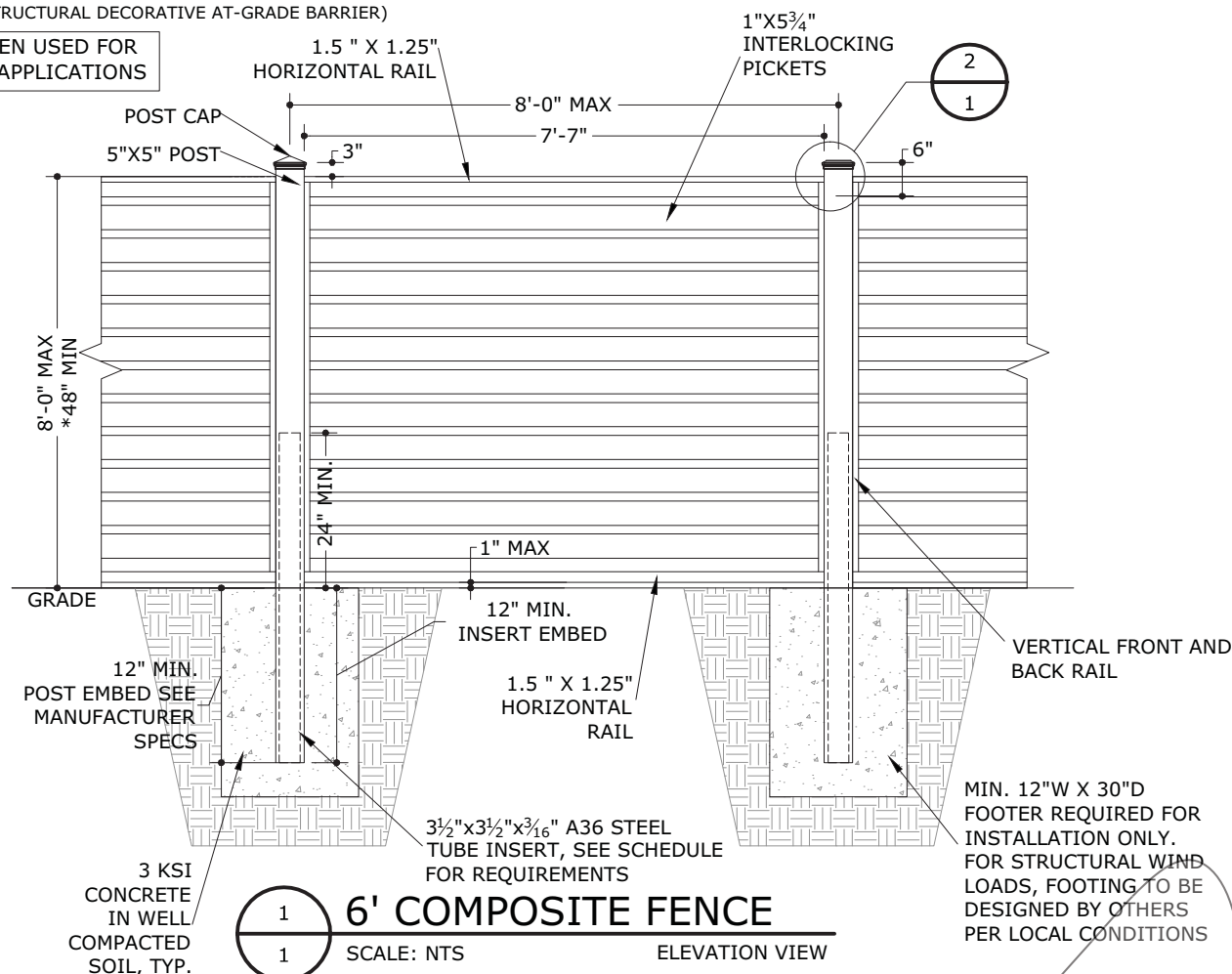


8' TREX HORIZONS COMPOSITE FENCE AT GRADE MPS

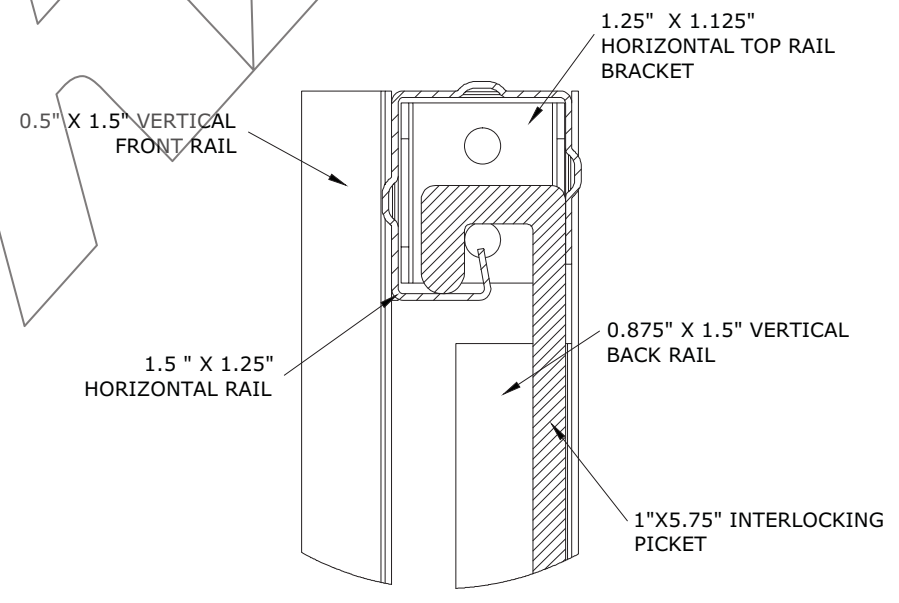
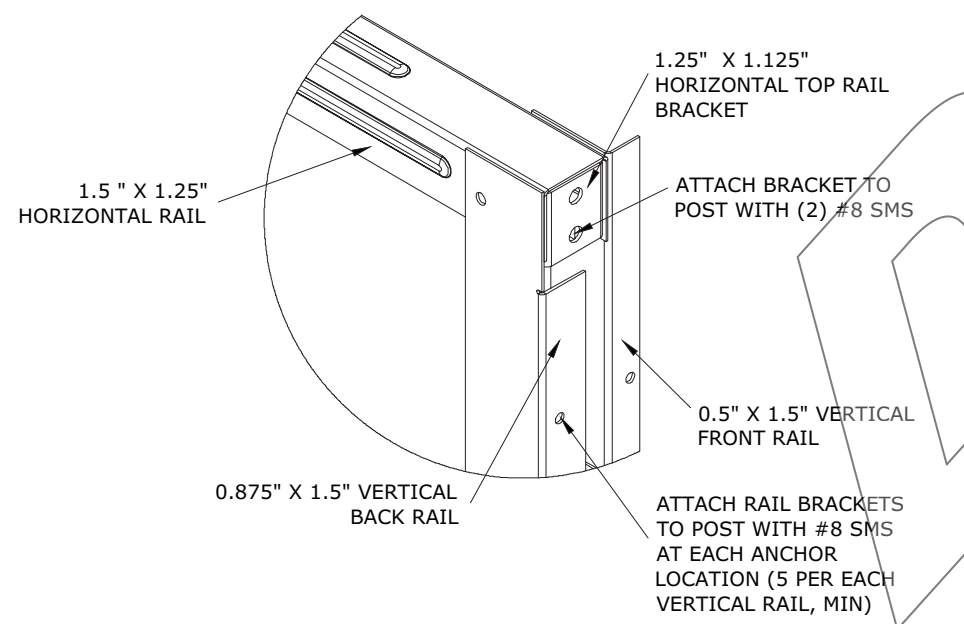
(NON-STRUCTURAL DECORATIVE AT-GRADE BARRIER)

* WHEN USED FOR POOL APPLICATIONS



POST INSERT, FOOTER MOMENT REQUIREMENTS					
POST HEIGHT (FT)	POST SPACING (FT)	VULT (MPH)	DP (PSF)	INSERT REQUIRED?	POST REQ MOMENT (LB-FT)
8	8	110	16.5	NO INSERT	4224
8	8	115	18.1	NO INSERT	4634
8	8	130	23.1	INSERT	5914
8	8	145	28.7	INSERT	7347
8	8	165	37.2	INSERT	9523
8	7.2	180	44.3	INSERT	10207

**REQUIRED WINDSPEED IF WITHIN HVHZ



GENERAL NOTES

- THIS SYSTEM HAS BEEN DESIGNED AND SHALL BE FABRICATED IN ACCORDANCE WITH THE REQUIREMENTS OF THE 2012 & 2015 INTERNATIONAL BUILDING CODE & 2012 & 2015 INTERNATIONAL RESIDENTIAL CODE AS WELL AS CURRENT VERSIONS OF THE MN, NC, NJ, NY, OH, SC, VA BUILDING & RESIDENTIAL CODES AS APPLICABLE.
- DESIGN BASED ON ASCE 7-10 USING $V_{ult} = 110-180$ MPH (3 SEC GUST), EXPOSURE 'C', RISK CATEGORY I, USING THE SOLID SIGN METHOD, 0% OPEN USED IN CALCULATIONS.
- THIS FENCE DESIGN TO BE USED AT GROUND SURFACE ONLY, WITH USE LIMITED TO DECORATIVE BARRIER PURPOSES ONLY. THIS FENCE IS NOT INTENDED TO MEET CODES GOVERNING ELEVATED BALCONIES OR STRUCTURAL RAILINGS.
- COMPOSITE WOOD MATERIAL INFORMATION:** ALL COMPOSITE WOOD MATERIAL TO HAVE A FLEX STR. OF 4000PSI MIN.
- ALL CONCRETE AND EPOXY TO REACH A MIN. COMPRESSIVE STRENGTH OF 3000 PSI IN 7 DAYS. CONCRETE FOOTERS SHALL CONTAIN MINIMUM 0.1% FIBERMESH CONTENT PER CUBIC YARD.
- THE CONTRACTOR IS RESPONSIBLE TO INSULATE ALL MEMBERS FROM DISSIMILAR MATERIALS TO PREVENT ELECTROLYSIS.
- SURROUNDING SOIL TO BE COMPACTED TO 98% OPTIMUM DENSITY, 2500 PSF MIN AND SHALL BE CLASSIFIED OR VERIFIED BY OTHERS PRIOR TO CONSTRUCTION AND SHALL BE SANDY GRAVEL CLASS ONLY.
- POOL ACCESS GATES WHEN PROVIDED SHALL BE AT LEAST 48" ABOVE GRADE & EQUIPPED WITH A SELF CLOSING, SELF LATCHING LOCKING DEVICE NOT LESS THAN 54" FROM BOT OF GATE. GATE MUST OPEN OUTWARD AWAY FROM POOL & MUST HAVE NO OPENING > 1/2" WITHIN 18" OF RELEASE MECHANISM.
- ELECTRICAL GROUND, WHEN REQUIRED, TO BE DESIGNED & INSTALLED BY OTHERS.
- ENGINEER SEAL AFFIXED HERETO VALIDATES STRUCTURAL DESIGN AS SHOWN ONLY. USE OF THIS SPECIFICATION BY CONTRACTOR, et. al. INDEMNIFIES & SAVES HARMLESS THIS ENGINEER FOR ALL COST & DAMAGES INCLUDING LEGAL FEES & APPELLATE FEES RESULTING FROM MATERIAL FABRICATION, SYSTEM ERECTION, CONSTRUCTION PRACTICES BEYOND THAT WHICH IS CALLED FOR BY LOCAL, STATE, & FEDERAL CODES & FROM DEVIATIONS OF THIS PLAN.
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- ANYTHING LESS THAN THE HEIGHT AND POST SPACING SHOWN HEREIN MAY BE AS PER MANUFACTURER PLANS FOR DIMENSIONAL CONFORMITY, PROVIDED COMPONENTS AND EXTRUSIONS ARE PER THIS DESIGN AND THERE ARE NO INCREASED TRIBUTARIES.
- EXCEPT AS EXPRESSLY PROVIDED HEREIN, NO ADDITIONAL CERTIFICATIONS OR AFFIRMATIONS ARE INTENDED.

FRANK L. BENNARDO, P.E.
PE#
08/14/2018

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REMARKS	DRWN	CHKD	DATE
2018 UPDATE	JAC	FLB	03/13/18

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16-3428
SCALE: NTS UNLESS NOTED
1 OF 1

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