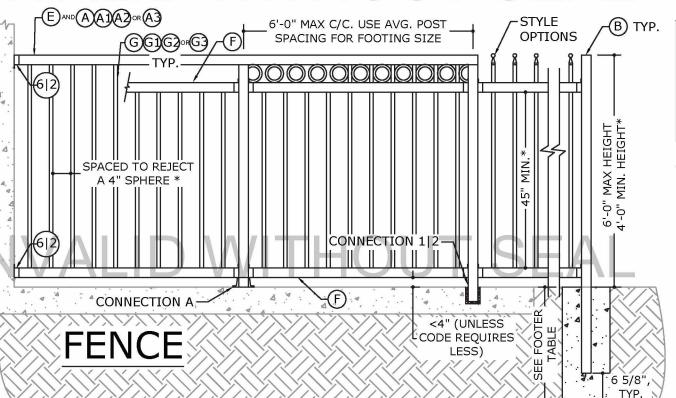
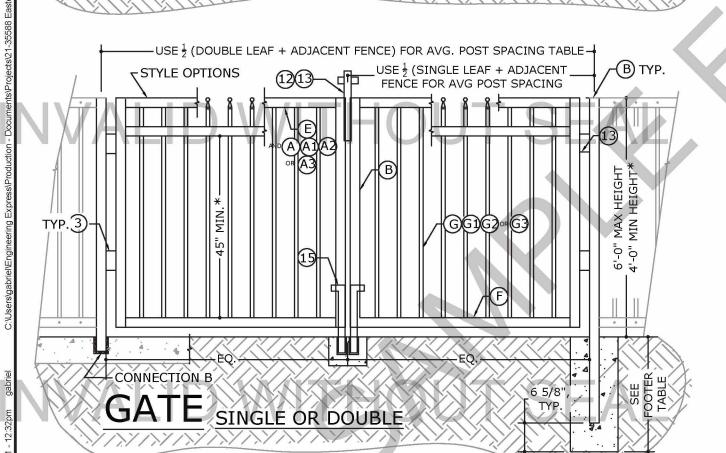
(NON-STRUCTURAL, DECORATIVE BARRIER, TYPICAL INSTALLATION (GROUND LEVEL NON-SLOPED ONLY) (HVHZ/NON-HVHZ) (SEE GENERAL NOTES & BELOW FOR POOL APPLICATIONS)





## FENCE & GATE FOOTING TABLE

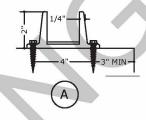
Ī	AVERAGE FENCE POST SPACING & SINGLE LEAF GATE TABLE				(DIAMETER x DEPTH):		
					DOUBLE LEAF GATE		
	POST	POST AVG. SPACING			POST AVG. SPACING		
	HEIGHT	4'-0"	5'-0"	6'-0"	8'-0"	9'-0"	10'-0"
	48"	10"x24"	10"x24"	12"x26"	12"x25"	12"x26"	12"x28"
	60"	10"x24"	10"x24"	12"x28"	12"x30"	15"x27"	18"x27"
	72"	10"x24"	12x30"	12"x30"	12"x32"		

#### OTHER FENCE/GATE FOOTING NOTES

GATE TO REMAIN SECURED DURING WIND EVENTS VELOCITIES > 75MPH SUSTAINED.

DIMENSION "DIAMETER" SHALL BE EITHER THE DIAMETER OR SIDE OF A SQUARE FOOTING. FOOTERS DESIGNED BASED ON FBC CHAPTER 2328 HVHZ, THEREFORE VALID FOR NON-HVHZ IN EXPOSURE 'C' & 'D'. THE FENCE MAY LIST BUT STAY INTACT IN SATURATED SOIL AT PEAK WINDS AND IS STILL CONSIDERED PROPERLY DESIGNED.

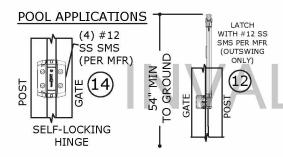
WHEN USED FOR POOL APPLICATIONS (SEE FBC 454.2.17)



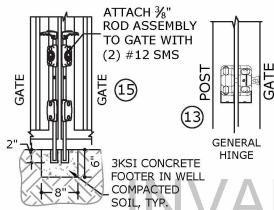
### **CONNECTION A (SHOE):**

PRE-MANUFACTURED 5"X5"X¼" ALUMINUM CAST SHOE ANCHORED WITH (4) ¼" Ø ITW/DEWALT TAPCON EMBEDDED 1-3/4" INTO CONCRETE & 3" EDGE DISTANCE

# GATE HARDWARE



### NON- POOL APPLICATIONS



# COPIES NOT VALID FOR PERMI

### **DESIGN NOTES**

- 1. THIS SYSTEM HAS BEEN DESIGNED AND SHALL BE FABRICATED IN ACCORDANCE WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE SIXTH & SEVENTH EDITION (2017 & 2020).
- 2. DESIGN BASED ON ASCE 7-16 USING  $V_{ult}$ = 115MPH /  $V_{asd}$ =90MPH (3 SEC GUST, UP TO 6'-0" IN EXPOSURES 'C' & 'D'.
- 6. THIS FENCE DESIGN TO BE USED AT LEVEL 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.
- 7. 70% OPEN USED IN CALCULATIONS. FENCE TO MAINTAIN ILLUSTRATED
- FOR POOL APPLICATIONS, PER FBC 454.2.17.1.8: POOL ACCESS GATES WHEN PROVIDED SHALL COMPLY WITH FBC 454.2 & MUST BE AT LEAST 48" ABOVE GRADE & EQUIPPED WITH A SELF CLOSING, SELF LATCHING LOCKING DEVICE NOT LESS THAN 54" FROM BOTTOM OF GATE (MAY BE PLACED ON EITHER SIDE). GATE MUST OPEN OUTWARD AWAY FROM POOL & MUST HAVE NO OPENING > 1/2" WITHIN 18" OF RELEASE MECHANISM.
- 9. FOR NON-POOL APPLICATIONS REQUIRING EGRESS: PER FLORIDA FIRE PREVENTION CODE, NFPA 1, 101, GATES REQUIRING EGRESS SHALL HAVE NO LATCHES AND BE FREE SWINGING FOR QUICK EXITING. GATE SHALL HAVE SELF-CLOSING HINGES ONLY.

#### CONNECTION

- 10. ALL FASTENERS TO BE #12 X ¾" OR GREATER SERIES 300 NON-MAGNETIC STAINLESS STEEL, OR CADMIUM PLATED OR OTHERWISE CORROSION RESISTANT MATERIAL.
- 11. FABRICATION SHALL BE IN ACCORDANCE WITH 2020 FBC SECTION 2003,8 WITH WELD FILLER ALLOYS MEETING ANSI/AWS A5.10 STANDARDS;
- 12. ALUMINUM CONSTRUCTION SHALL BE IN CONFORMANCE WITH THE TOLERANCES, QUALITY AND METHODS OF CONSTRUCTION AS SET FORTH IN THE 2015 ALUMINUM DESIGN MANUAL PER CODE REQUIREMENTS.
- 13. ANY WELDING SHALL BE STRICTLY DECORATIVE.

#### MATERIALS

- 14. ALL EXTRUDED MEMBERS SHALL BE ALUMINUM ALLOY TYPE 6063-T6 (
  BETTER UNLESS NOTED OTHERWISE.
- 15. ALL CONCRETE SHALL BE UNCRACKED ONLY WITH A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI U.N.O. AND SHALL BE MINIMUM 1.5X THICKER THAN ANY MEMBER EMBEDMENT. ALL EPOXY AND GROUT SHALL MEET OR EXCEED COMPRESSIVE STRENGTH OF THE CONCRETE AND SHALL BE IRON-FREE, NON-SHRINK AND NON-REACTIVE. CONCRETE FOOTERS SHALL CONTAIN MIN 0.1% FIBERMESH ADMIXTURE PER CY.
- 16. SURROUNDING SOIL TO BE COMPACTED TO 90% OPTIMUM DENSITY, 2000 PSF MIN AND SHALL BE CLASSIFIED OR VERIFIED BY OTHERS PRIOR TO CONSTRUCTION PER FBC 1806.2 AND SHALL BE SANDY GRAVEL CLASS ONLY.
- 17. THE CONTRACTOR IS RESPONSIBLE TO INSULATE ALL MEMBERS FROM DISSIMILAR MATERIALS TO PREVENT ELECTROLYSIS.
- 18. ELECTRICAL GROUND, WHEN REQUIRED, TO BE DESIGNED & INSTALLED BY OTHERS.

#### GENERAL NOTES

- 1. COMPONENTS OF THIS FENCE SHALL BE DISTRIBUTED BY EASTERN METAL SUPPLY. PART NUMBERS USED IN CONSTRUCTION SHALL MATCH THOSE LISTED HEREIN.
- 2. 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.
- 3. THIS DOCUMENT IS GENERIC AND DOES NOT PERTAIN TO ANY SPECIFIC PROJECT SITE. ENGINEERING EXPRESS SHALL NOT BE HELD RESPONSIBLE OR LIABLE IN ANY WAY FOR ERRONEOUS OR INACCURATE DATA OR MEASUREMENTS.
- THE FENCE MAY LIST BUT STAY INTACT IN SATURATED SOIL AT PEAK WINDS AND IS STILL CONSIDERED PROPERLY DESIGNED.
- 5. DIMENSIONS ARE SHOWN TO ILLUSTRATE DESIGN FORCES AND OTHER DESIGN CRITERIA. THEY MAY VARY SLIGHTLY, BUT MUST REMAIN WITHIN THE LIMITATIONS SPECIFIED HEREIN. WORK SHALL BE FIELD VERIFIED BY OTHERS.
- 6. ENGINEERING EXPRESS SHALL BE NOTIFIED AND GIVEN AN OPPORTUNITY TO REEVALUATE OUR WORK UPON DISCOVERY OF ANY INACCURATE INFORMATION PRIOR TO MODIFICATION OF EXISTING FIELD CONDITIONS AND FABRICATION AND INSTALLATION OF MATERIALS.
- 7. ALTERATIONS OR ADDITIONS TO THIS DOCUMENT ARE NOT PERMITTED AND INVALIDATE OUR CERTIFICATION.
- 8. EXCEPT AS EXPRESSLY PROVIDED HEREIN, NO ADDITIONAL CERTIFICATIONS OR AFFIRMATIONS ARE INTENDED.

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