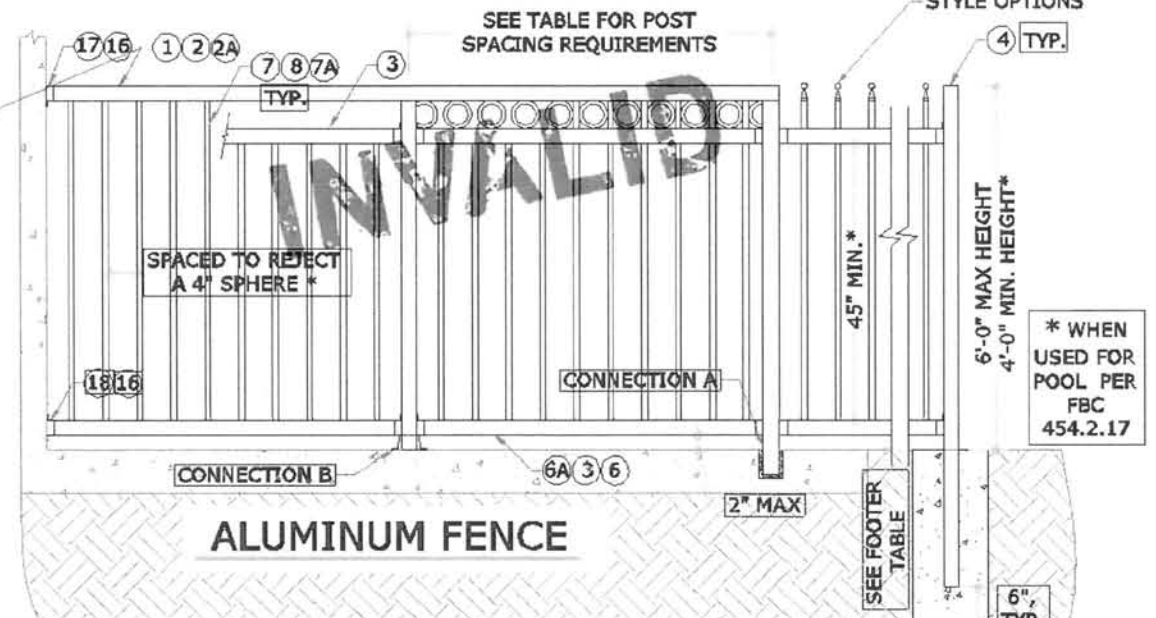


# ALUMINUM FENCE & GATE MASTER PLAN SHE

(NON-STRUCTURAL, DECORATIVE BARRIER, TYPICAL INSTALLATION (GROUND LEVEL NON-SLOPED ONLY) ALL WE (HVHZ/NON-HVHZ) (SEE GENERAL NOTE #3 & BELOW FOR POOL APPLICATIONS)

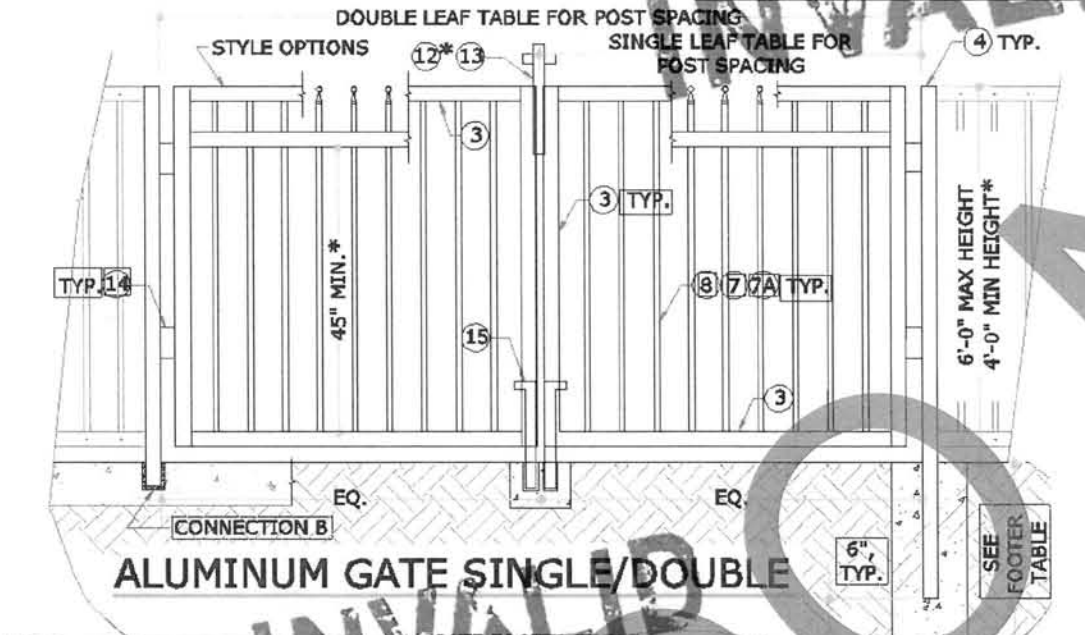


**CONNECTION A (CORE DRILL):**  
3"Ø CORE DRILL, 3" DEEP INTO CONCRETE, & 6" MIN. EDGE DISTANCE FROM CENTER TO ANY CONCRETE FACE, FILLED WITH HIGH STRENGTH, NON-SHRINK, IRON FREE, NON-REACTIVE GROUT.

**CONNECTION B (SHOE):**  
PRE-MANUFACTURED 5"X5"X¼" ALUM SHOE ANCHORED WITH (4) ¼" Ø ITW TAPCON EMBEDDED 1-3/4" INTO CONCRETE & 3" EDGE DISTANCE.

**CONNECTION C (FOOTING):**

POST HEIGHT	POST SPACING		
	4'-0"	5'-0"	6'-0"
48"	10"x24"	10"x24"	12"x26"
60"	10"x24"	10"x24"	12"x30"
72"	10"x24"	12"x30"	12"x30"

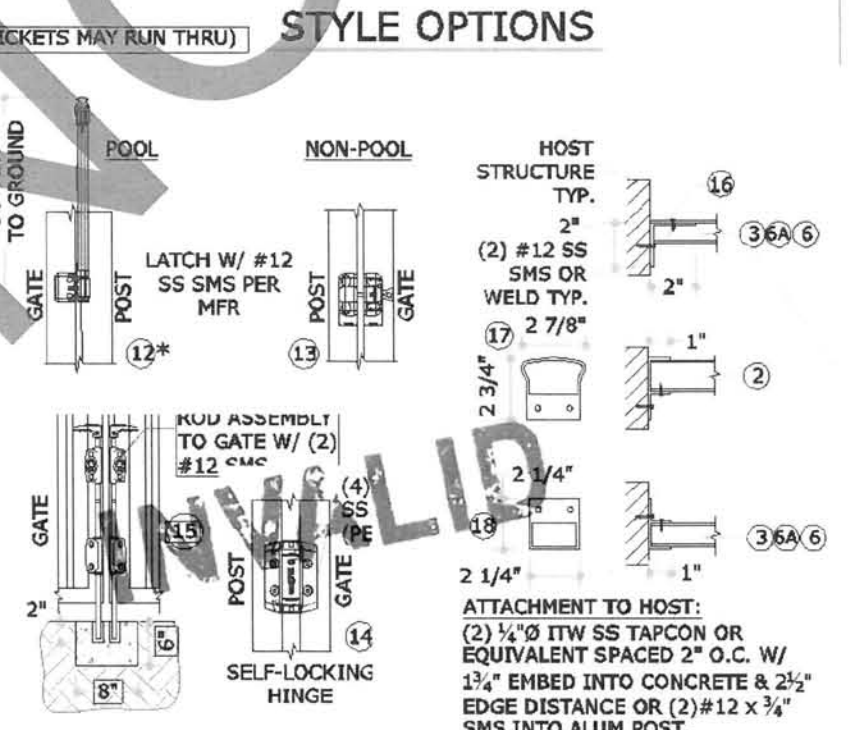
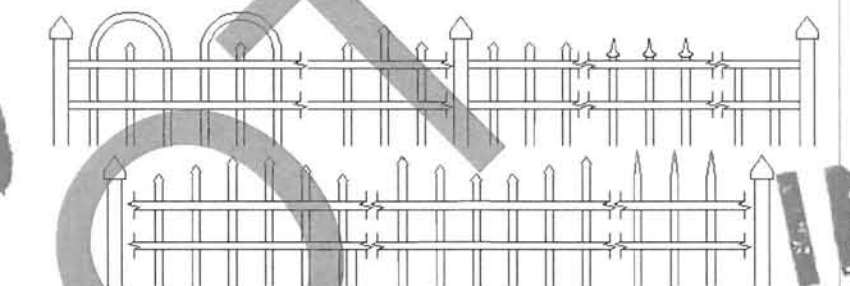
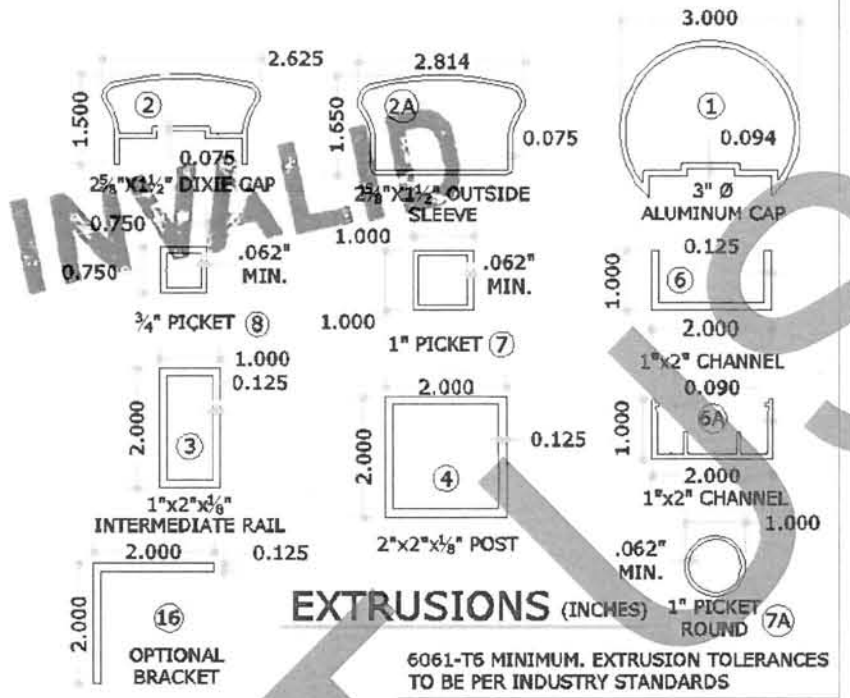


**NOTE:**  
- FOR DOUBLE LEAF TABLE ASSUMES 6' MAX WIDTH FENCE BEYOND GATE.  
- GATE TO REMAIN SECURED DURING WIND EVENTS VELOCITIES > 75MPH SUSTAINED

**GATE FOOTER TABLE:**

POST HEIGHT	SINGLE LEAF TABLE (DIA. x DEPTH):			DOUBLE LEAF TABLE:		
	POST	POST SPACING	POST SPACING	POST	POST SPACING	POST SPACING
48"	10"x24"	10"x24"	12"x26"	12"x25"	12"x26"	12"x26"
60"	10"x24"	10"x24"	12"x28"	12"x30"	15"x27"	18"x27"
72"	10"x24"	12"x30"	12"x30"	12"x32"		

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



## GENERAL NOTES:

- THIS SYSTEM HAS BEEN DESIGNED AND SHALL BE FABRICATED IN ACCORDANCE WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE SIXTH EDITION (2017).
- DESIGN BASED ON ASCE 7-10 USING  $V_{max} = 115\text{MPH}$  /  $V_{avg} = 90\text{MPH}$  (3 SEC GUST, UP TO 6'-0" WITHIN HVHZ), EXPOSURE 'D', RISK CATEGORY '1', USING THE 'OPEN SIGN METHOD'. 70% OPEN USED IN CALCULATIONS. SEISMIC DESIGN DOES NOT GOVERN.
- FOR POOL APPLICATIONS**, PER FBC 454.2.17.1.8: POOL ACCESS GATES WHEN PROVIDED SHALL COMPLY WITH FBC 454.2 AND MUST 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.
- FOR NON-POOL APPLICATIONS REQUIRING EGRESS**: PER FLORIDA FIRE PREVENTION CODE 6TH EDITION, NFPA 1, 101, 2017 EDITION, GATES REQUIRING EGRESS SHALL HAVE NO LATCHES AND BE FREE SWINGING FOR QUICK EXITING. GATE SHALL HAVE SELF-CLOSING HINGES ONLY.
- 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.
- ALL FASTENERS TO BE #12 X ¾" OR GREATER SERIES 300 NON-MAGNETIC STAINLESS STEEL, OR CADMIUM PLATED OR OTHERWISE CORROSION RESISTANT MATERIAL.
- ALUMINUM WELDING SHALL BE IN ACCORDANCE WITH 2017 FBC SECTION 2003.8.1.4 WITH WELD FILLER ALLOYS MEETING ANSI/AWS A5.10 STANDARDS; ALL ALUMINUM CONSTRUCTION SHALL BE IN CONFORMANCE WITH THE TOLERANCES, QUALITY AND METHODS OF CONSTRUCTION AS SET FORTH IN FBC SECTION 2003.2. MINIMUM WELD IS ¾" THROAT FULL PERIMETER FILLET WELD UNLESS OTHERWISE NOTED.
- ALL EXTRUDED MEMBERS SHALL BE ALUMINUM ALLOY TYPE 6061-T6 OR BETTER, U.N.O.
- 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.
- SURROUNDING SOIL TO BE COMPACTED TO 95% 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.
- THE CONTRACTOR IS RESPONSIBLE TO INSULATE ALL MEMBERS FROM DISSIMILAR MATERIALS TO PREVENT ELECTROLYSIS.
- 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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ALUMINUM FENCE  
WELDED  
MASTER PLAN SHEET  
AT GRADE  
FLORIDA BUILDING CODE  
SIXTH EDITION  
(2017)

DRWN	CHKD	DATE
TBS	TBS	03/21/12
ETJ	ETJ	04/11/15
JAC	TSB	06/10/15
FLB	FLB	10/18/16
LAO	FLB	07/15/18

REMARKS  
INIT ISSUE  
70% OPEN REV  
REV FOR 2014 CODE  
FOOTER MISC.  
2017 FBC UPDATE

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