

# WELDED STEEL FENCE MASTER PLAN SHEET

(NON-STRUCTURAL, DECORATIVE BARRIER, TYPICAL INSTALLATION (GROUND LEVEL, NON-SLOPED ONLY) SEE GENERAL NOTE #12 & BELOW FOR POOL APPLICATIONS  
GATE DESIGN & CERTIFICATION PROVIDED BY SEPARATE MASTER PLAN SHEET AS APPLICABLE.

ALL WELDED  
CONSTRUCTION

DRAWING VALID ONLY WITH ORIGINAL  
SIGNATURE AND RAISED SEAL. VALID  
FOR 500FT OF FENCING AT (1)  
LOCATION PER SEALED DRAWING

02/25/2019

CERTIFYING ENGINEER AND CERT.  
OF AUTH. AS USED ON STAMP

VALID FOR 1 PERMIT ONLY U.N.O.

**NOTICE: IF THIS SHEET DOES NOT CONTAIN AN ORIGINAL SIGNATURE & ENGINEER SEAL:**  
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**FOR NON-POOL APPLICATIONS REQUIRING EGRESS:**  
PER FLORIDA FIRE PREVENTION CODE 5TH EDITION, NFPA 1, 101, & CHAPTER 7, 2012 EDN, GATES REQUIRING EGRESS SHALL HAVE NO LATCHES AND BE FREE SWINGING FOR QUICK EGRESS BY PUSHING ON THE DOOR ONLY.  
THE GATE SHALL HAVE A HINGE THAT SPRINGS CLOSED ONLY.

### POST FOOTER TABLE (DIA. x DEPTH):

POST HEIGHT	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"

### FOOTING TABLE NOTES:

- FOOTING DIMENSION LISTED AS "DIA" SHALL BE EITHER THE DIAMETER OF A ROUND OR DIMENSIONS OF A SQUARE FOOTING.
- FOOTERS DESIGNED USING LIMITING CRITERIA IN FBC CHAPTER 2328 INSIDE THE HVHZ AND CONSIDERED VALID FOR USE OUTSIDE HVHZ IN EXPOSURE 'C' AND 'D' CONDITIONS. THE PRODUCT MAY LIST BUT STAY IN TACT IN SATURATED SOIL AT PEAK WINDS AND IS STILL CONSIDERED PROPERLY DESIGNED.

### ABOUT THIS DOCUMENT

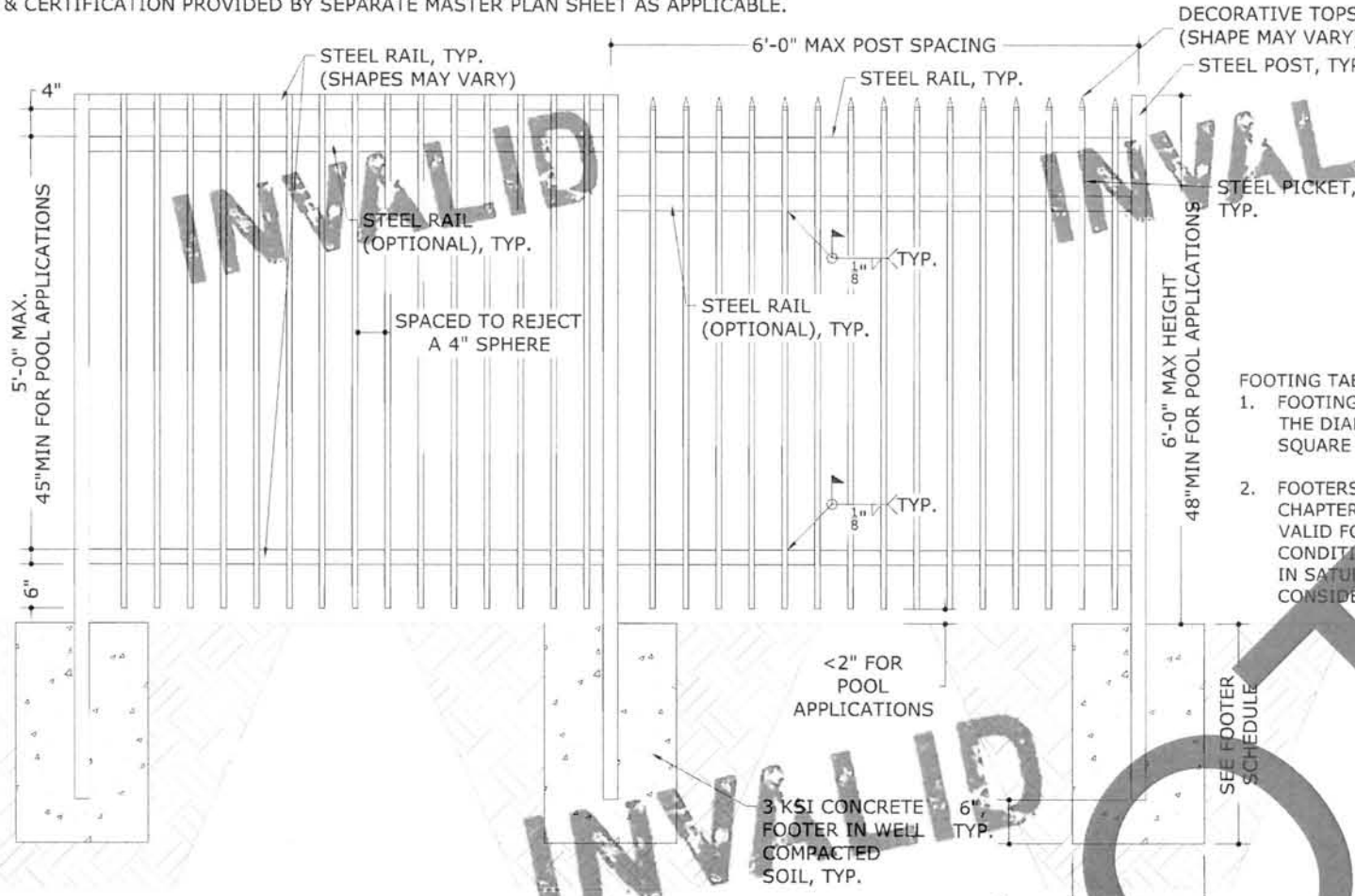
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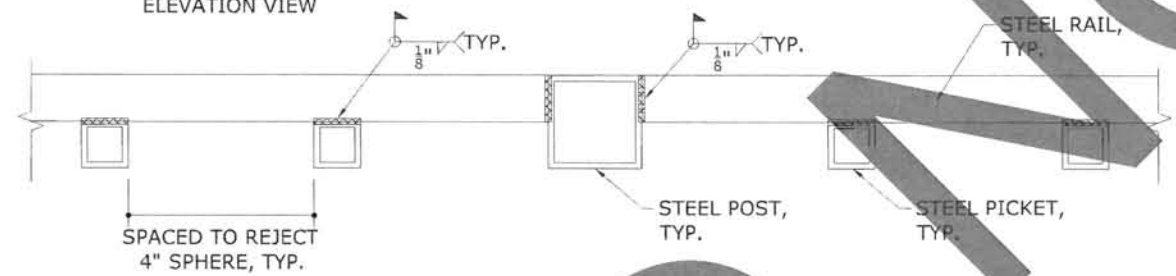
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### GENERAL NOTES

- THIS SYSTEM HAS BEEN DESIGNED AND SHALL BE FABRICATED IN ACCORDANCE WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE 6TH EDITION (2017).
- DESIGN BASED ON ASCE 7-10 USING  $V_{ult} = 115MPH$  ( $V_{asd} = 90MPH$ ) (3 SEC GUST, UP TO 6'-0" WITHIN HVHZ), AND  $V_{ult} = 165MPH$  ( $V_{asd} = 128MPH$ ) (3 SEC GUST, BEYOND 6'-0" OR OUTSIDE HVHZ), EXPOSURE 'C' OR 'D', RISK CATEGORY I, USING THE 'OPEN SIGN METHOD'. 80% OPEN USED IN CALCULATIONS.
- SEISMIC DESIGN DOES NOT GOVERN. SEISMIC PARAMETERS CHECKED: RISK CATEGORY II, IMPORTANCE FACTOR 1.0,  $S_s = 0.05533$ ,  $S_1 = 0.02187$ , SITE CLASS D,  $S_d = 0.059$ ,  $SD_1 = 0.035$ , SEISMIC DESIGN CATEGORY A, BASIC SEISMIC FORCE-RESISTING SYSTEMS ALL OTHER SELF-SUPPORTING STRUCTURES, DESIGN BASE SHEAR 25 LBS (WEIGHT OF TRIBUTARY MAX=500LB, UP TO 10FT ABOVE GRADE),  $C_s = 0.047$ ,  $R = 1.25$ , NON-BUILDING EQUIVALENT LATERAL FORCE PROCEDURE ANALYSIS.
- 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.
- ALL STEEL MEMBERS SHALL CONFORM TO ASTM A36 AND CURRENT EDITION OF AISC W/ MINIMUM  $F_y = 36KSI$ .
- ALL CONCRETE AND EPOXY TO REACH A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI IN 7 DAYS. CONCRETE FOOTERS SHALL CONTAIN MINIMUM 0.1% FIBERMESH CONTENT PER CUBIC YARD. ALL EPOXY AND GROUT SHALL MEET OR EXCEED COMPRESSIVE STRENGTH OF THE CONCRETE AND SHALL BE IRON-FREE, NON-SHRINK AND NON-REACTIVE.
- 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.
- ALL WELDING MUST BE DONE BY AN AWS CERTIFIED WELDER OR SHALL CONFORM TO AISC STEEL CONSTRUCTION MANUAL 13TH ED AS INSPECTED AND VERIFIED BY OTHERS. MIN. WELD IS  $\frac{1}{8}$ " FULL FILLET WELD.
- THE CONTRACTOR IS RESPONSIBLE TO INSULATE ALL MEMBERS FROM DISSIMILAR MATERIALS TO PREVENT ELECTROLYSIS.
- ELECTRICAL GROUND, WHEN REQUIRED, TO BE DESIGNED & INSTALLED BY OTHERS.
- 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 BOTTOM OF GATE. GATE MUST OPEN OUTWARD AWAY FROM POOL & MUST HAVE NO OPENING  $> \frac{1}{2}$ " WITHIN 18" OF RELEASE MECHANISM. SEE ADDITIONAL ENGINEERING SHEETS FOR GATE DETAILS AS APPLICABLE.
- 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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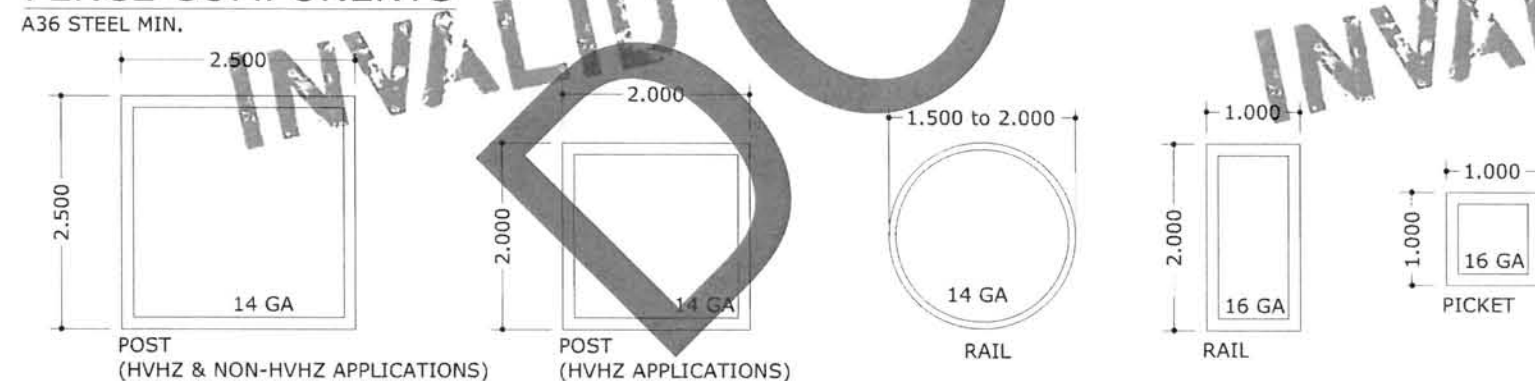


1 TYP. FENCE LAYOUT  
1 N.T.S. ELEVATION VIEW



2 TYP. FENCE DETAIL  
1 N.T.S. PLAN VIEW

### FENCE COMPONENTS



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WELDED STEEL FENCE  
MASTER PLAN SHEET  
FLORIDA BUILDING CODE SIXTH EDITION (2017)  
ASCE 7-10 - OPEN SIGN METHOD - 80% OPEN

DATE 02/15/18  
DRWN CHKD  
FLB  
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REMARKS  
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