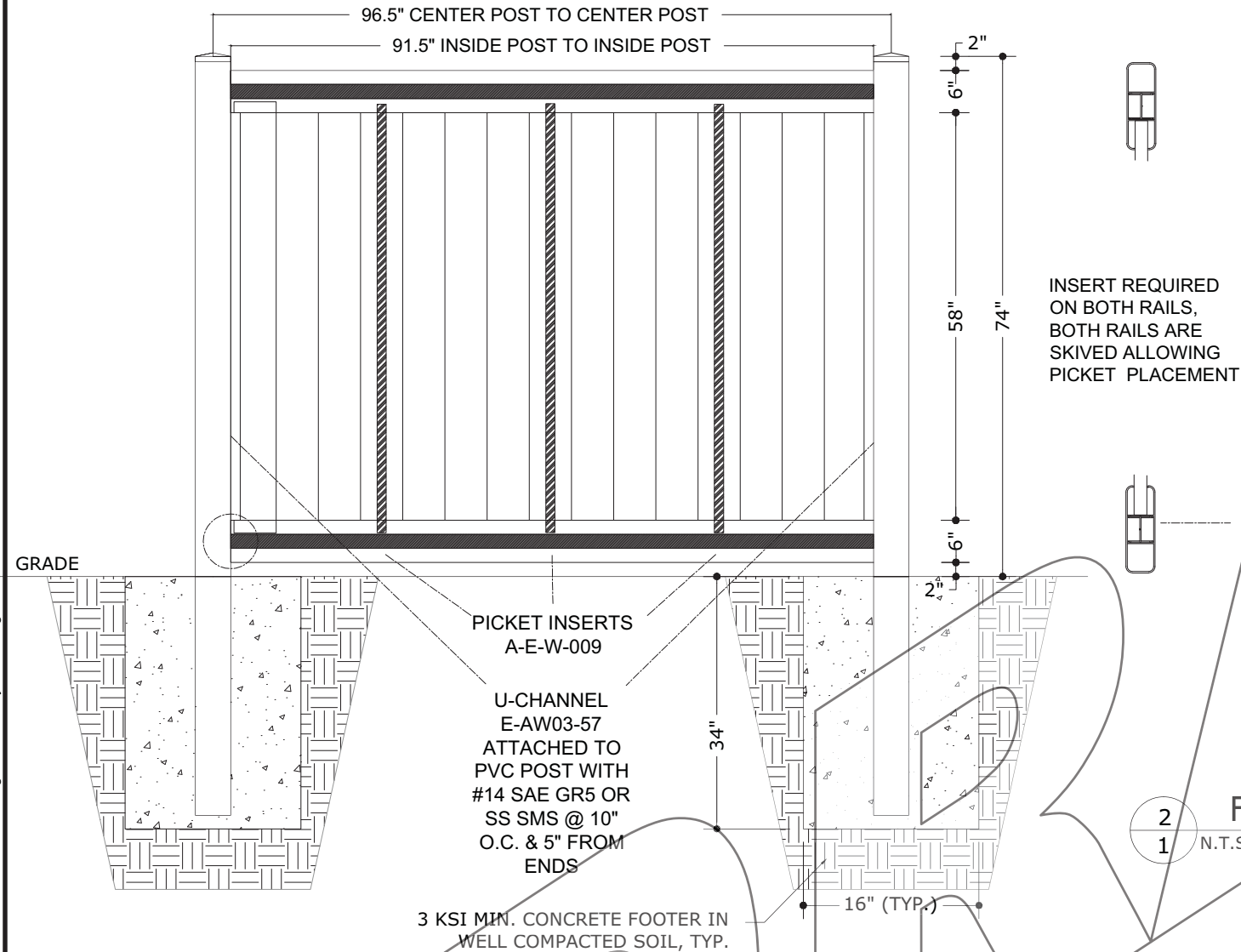


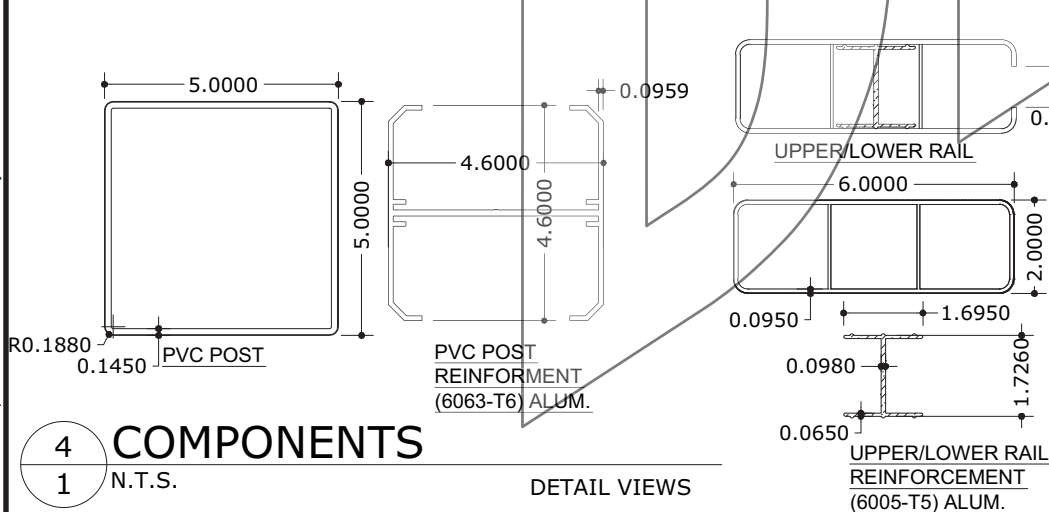
MIRAGE PVC FENCE W/ REINFORCEMENT

(NON-STRUCTURAL, DECORATIVE BARRIER, TYPICAL INSTALLATION (NON-SLOPED GROUND LEVEL ONLY))

SEPARATE GATE ENGINEERING MASTER PLAN SHEET REQUIRED FOR POOL APPLICATIONS NOT INCLUDED IN THIS CERTIFICATION



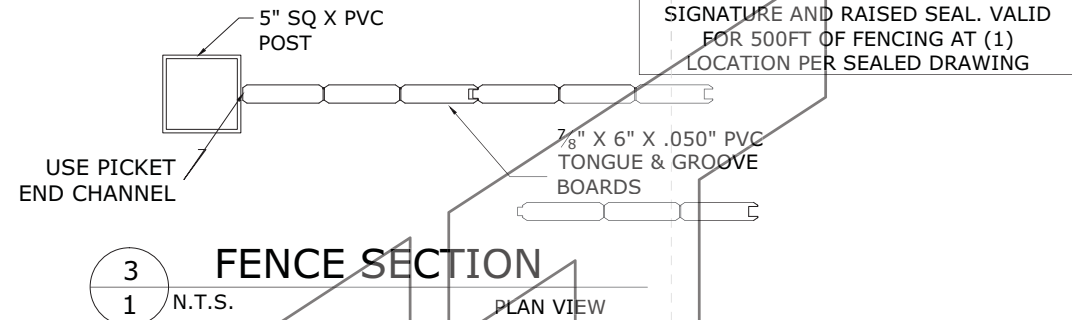
1 TYPICAL FENCE ELEVATION
1 N.T.S. ELEVATION VIEW



4 COMPONENTS
1 N.T.S. DETAIL VIEWS

INSERT REQUIRED ON BOTH RAILS, BOTH RAILS ARE SKIVED ALLOWING PICKET PLACEMENT

2 FENCE SECTION
1 N.T.S. SECTION VIEW



3 FENCE SECTION
1 N.T.S. PLAN VIEW

GENERAL NOTES

- THIS SYSTEM HAS BEEN DESIGNED AND SHALL BE FABRICATED IN ACCORDANCE WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE 5TH EDITION (2014).
- DESIGN BASED ON ASCE 7-10 USING $V_{ult} = 115\text{MPH} / V_{asd} = 90\text{MPH}$ (3 SEC GUST, UP TO 6'-0" WITHIN HVHZ), $V_{ult} = 156\text{MPH} / V_{asd} = 121\text{MPH}$ (3 SEC GUST, OUTSIDE HVHZ), EXPOSURE 'D' & 'C', RISK CATEGORY I, USING THE 'SOLID FREESTANDING SIGN METHOD'.
- SEISMIC DESIGN DOES NOT GOVERN. SEISMIC PARAMETERS CHECKED: SEISMIC RISK CAT. 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 CAT. A, BASIC SEISMIC FORCE-RESISTING SYSTEMS ALL OTHER SELF-SUPPORTING STRUCTURES, DESIGN BASE SHEAR 25 LBS (WT 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.
- PVC INFORMATION:** ALL PVC RESIN TO BE ASTM D1784 EXTRUDED D638 FLEX STR. 9600PSI D790. ALL TO CONFORM TO ASTM F 964 FOR RIGID POLYVINYL PROFILES.
- ALL FASTENERS TO BE #12 X 3/4" OR GREATER 2024-T4, 18-8 SERIES 300 NON-MAGNETIC STAINLESS STEEL, OR CADMIUM PLATED OR OTHERWISE CORROSION RESISTANT MATERIAL AND SHALL COMPLY WITH J.3.4, THE ALUMINUM DESIGN MANUAL -SECTION J.3, THE ALUMINUM ASSOCIATION, INC., & APPLICABLE FEDERAL, STATE, AND LOCAL CODES.
- 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.
- 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.
- THIS DOCUMENT IS GENERIC AND DOES NOT PERTAIN TO ANY SPECIFIC PROJECT SITE. INFORMATION CONTAINED HEREIN IS BASED ON CONTRACTOR-SUPPLIED DATA AND MEASUREMENTS. ENGINEERING EXPRESS SHALL NOT BE HELD RESPONSIBLE OR LIABLE IN ANY WAY FOR ERRONEOUS OR INACCURATE DATA OR MEASUREMENTS. 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 PRIOR TO CONSTRUCTION. 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. ALTERATIONS OR ADDITIONS TO THIS DOCUMENT ARE NOT PERMITTED AND INVALIDATE OUR CERTIFICATION.
- EXCEPT AS EXPRESSLY PROVIDED HEREIN, NO ADDITIONAL CERTIFICATIONS OR AFFIRMATIONS ARE INTENDED.

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

FRANK L. BENNARDO, P.E.
PE# 0046549

06/21/2017

IF CHECKED, CERTIFYING P.E. APPEARS BELOW
FRANK L. BENNARDO, P.E.
46549

VALID FOR 1 PERMIT ONLY U.N.O.
VALID ONLY WITH ORIGINAL ENGINEER SEAL

ENGINEERING EXPRESS
CORPORATE OFFICE:
160 SW 12th AVE, SUITE 106
DEERFIELD BEACH, FL 33442
P: (954) 354-0660 F: (954) 354-0443
E: HELLO@ENGINEERINGEXPRESS.COM
ENGINEERINGEXPRESS.COM
CERT OF AUTH #9885

ENDURIS
7167 OLD KINGS RD N
JACKSONVILLE, FL
(561) 964-5335
6' H X 8' W MIRAGE PRIVACY
DADE COUNTY, FL

REMARKS	DRWN	CHKD	DATE
INIT ISSUE	JRB	FLB	06/01/17

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SCALE: N.T.S.

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