San Lazaro 290'@6' DuraFence

FENCING SUPPLIES INC.

GENERAL NOTES:

1. ALL WORK SHALL CONFORM TO FLORIDA BUILDING CODE 2010.
2. IT IS THE INTENT OF THESE DRAWINGS TO BE IN ACCORDANCE WITH APPLICABLE CODES AND AUTHORITIES HAVING JURISDICTION. ANY DISCREPANCIES BETWEEN THESE DRAWINGS AND APPLICABLE CODES SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ENGINEER.
3. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO MEET WITH ALL APPLICABLE UTILITY COMPANIES TO VERIFY ALL UNDER- GROUND FACILITIES PRIOR TO THE BEGINNING OF CONSTRUCTION. ALL EXCAVATIONS SHALL PROCEED WITH EXTREME CAUTION AT ALL TIMES. IN THE EVENT THAT EXISTING UTILITIES ARE DAMAGED, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REPAIR OR REPLACE ALL DAMAGES.
4. THIS WORK REQUIRES A BUILDING PERMIT. DO NOT BEGIN WORKING UNTIL A BUILDING PERMIT IS OBTAINED.
5. CONTRACTOR IS TO FURNISH ALL LABOR, MATERIALS, SERVICES AND EQUIPMENT NECESSARY TO COMPLETE ALL WORK SHOWN ON THE DRAWINGS AND SPECIFIED HEREIN.
6. DO NOT SCALE DRAWINGS, DIMENSIONS GOVERN.
7. ENGINEER'S VISITS TO THE SITE, AS PER G.C OR OWNER'S REQUEST DURING CONSTRUCTION SHALL BE SCHEDULED WITHIN 24 HOURS PRIOR TO INSPECTION.
8. THE CONTRACTOR SHALL MAKE REQUIRED ARRANGEMENTS, SECURE AND PAY FOR ALL BARRICADES, ENCLOSURES, AND FENCING AS NEEDED FOR AND DURING THE PROGRESS TO PROTECT ADJACENT PROPERTIES.
9. THE CONTRACTOR SHALL NOT PROCEED WITH ANY ADDITIONAL SERVICES OR WORK WITHOUT PRIOR NOTIFICATION TO THE OWNER.
10. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR MEANS AND METHODS CONSTRUCTION, AND FOR THE SEQUENCES AND PROCEDURES TO BE USED.
11. CONTRACTOR SHALL BE RESPONSIBLE FOR FAMILIARIZING WITH CURRENT SITE CONDITIONS, AND SHALL REPORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO STARTING WORK.
12. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS AT THE JOB SITE. ANY DISCREPANCIES BETWEEN PLANS, SECTIONS AND DETAILS OR THE APPLICABLE CODES OR REGULATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT OR ENGINEER DURING BIDDING OR BEFORE WORK BEGINS IN ORDER TO CLARIFY THE REQUIREMENTS AND TO EFFECT THE NECESSARY MODIFICATIONS, CHANGES AND /OR INSTRUCTIONS.
13. CONTRACTOR SHALL BE RESPONSIBLE FOR RESETTING ALL DISTURBED EXISTING CONDITIONS AND PROPER DISPOSAL OF ANY EXTRA MATERIALS & GARBAGE FROM THE SITE AFTER COMPLETION OF WORK.
14. DRAWINGS AND DIMENSIONS ARE BASED UPON DRAWINGS SUPPLIED BY THE CLIENT. EASTERN ENGINEERING GROUP WILL NOT BE RESPONSIBLE FOR ERRORS OR MISINTERPRETATIONS OF THE SYSTEM DESIGNED BY US BASED ON CLIENT CONFIRMED DESIGN AND DIMENSIONS. ADDITIONAL DRAFTING TIME EMPLOYED IN THE CHANGE OF THE DESIGN AFTER SIGNING AND SEALING OF DRAWINGS WILL RESULT IN ADDITIONAL COST.
15. DO NOT SUBSTITUTE MATERIALS, EQUIPMENTS OR METHODS OF CONSTRUCTION UNLESS SUCH SUBSTITUTIONS OR CHANGES HAVE BEEN APPROVED IN WRITING BY THE OWNER.

DESIGN LOADS

FENCE
WIND LOAD AS PER ASCE 7-10
KD=0.85
WIND VELOCITY AS PER ASCE 7-10
MIAMI-DADE
CATEGORY 2 ------ 115 mph -----
AS PER FBC 2010 SECTION 1615.2.1

1. STRUCTURAL STEEL HAS BEEN DESIGNED IN ACCORDANCE WITH THE BUILDING CODE AND AISC SPECIFICATIONS NINTH EDITION.
2. STRUCTURAL STEEL SHALL MEET THE FOLLOWING REQUIREMENTS:

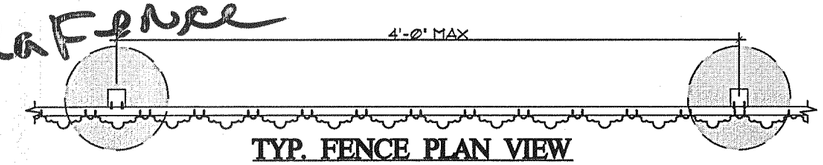
TYPE	ASTM	GRADE	Fy
STEEL SHEETS	A36	-----	36 KSI
STRUCTURAL TUBING	A500	B	46 KSI

3. ALL STEEL SHALL BE HOT-DEEP GALVANIZED.
4. PAINT STEEL HOT GALVANIZED SURFACES IN CONTACT WITH CONCRETE WHITH ALKALI-RESISTANCE COATINGS, SUCH AS HEAVY-BODIED BITUMINOUS PAINT OR WATHER-WHITE MOTHACRYLATE LACQUER.

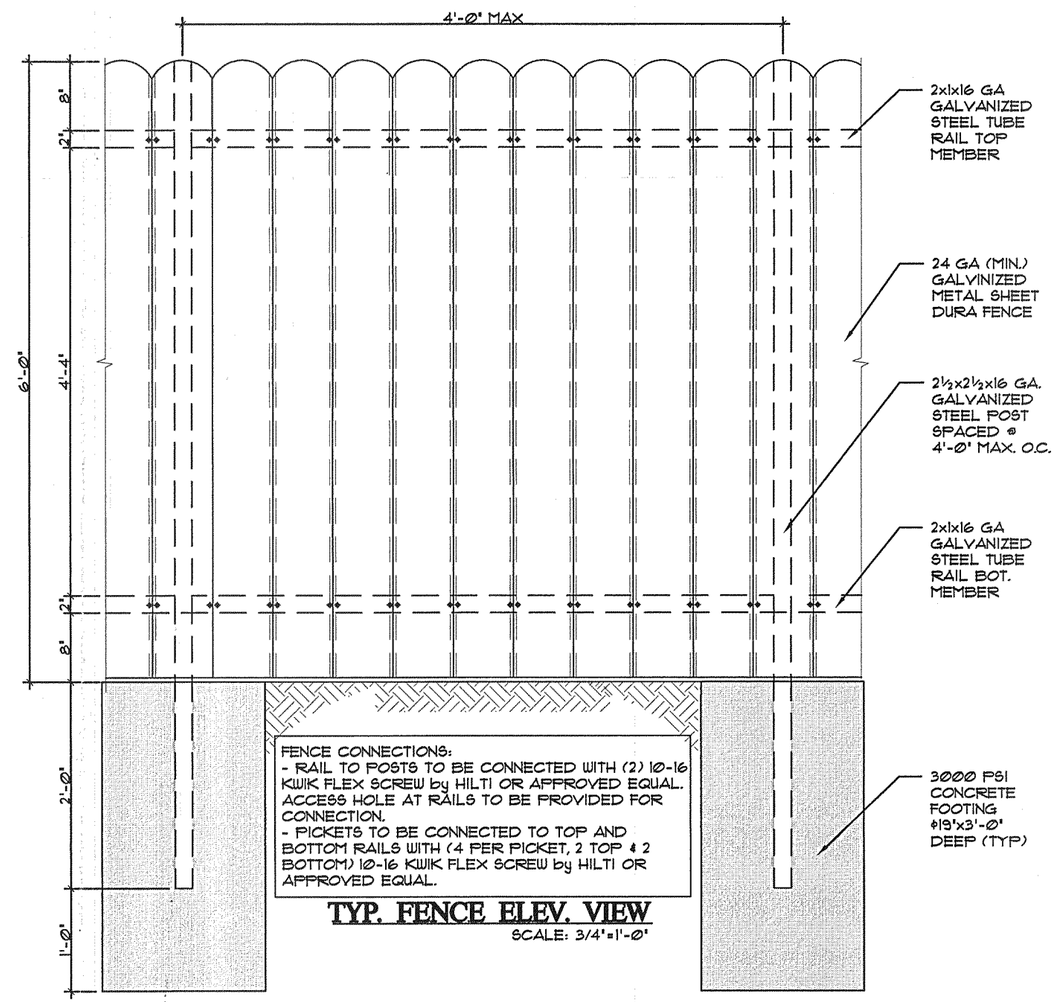
CALCULATIONS

In accordance with ASCE 7-10 and ASCE 7-10, Wind Speed Map, BC 2010, Chapter 16, Section 1615.2.1

Wind Load Calculation		General Data:				Post Design			Top and Bottom Design	
V (mph):	115.00	L (ft):	4			2 1/2x2 1/2x16 gage steel galvanized			2x1x0.071 st galvanized	
Exposure:	C	Hpost (ft)	6			A-500			A-500	
Gust Factor	0.85	Fy (psi)	46000			Mmax. (lb-in)	13997		Mmax. (lb-in)	1166
Cf:	1.00	Fb (psi)	30360			Sx (in^3)	0.49		Sx (in^3)	0.124
Kd:	0.85	Fv (psi)	18400			fb (psi)	Mmax/Sx		fb (psi)	Mmax/Sx
Kzt:	1.00	Fy (psi)	36000			fb (psi)	28565		fb (psi)	9406.45
qz (psf):	16.2	A-36 Fb (psi)	23760			fb (psi)<Fb	OK		fb (psi)<Fb	OK
		Fv (psi)	14400							
Rail to Posts Connection Design						Foundation Design (nonconstrained FBC 2010 -1819.7.2)				
Actual Pullout	194					P	388.80		Lateral soil bearing	200
Allowable Pullout	200	Using 10-16 Hilti Kwik				A	1.44		Footing Diameter (ft)	1.58
	OK	Flex Screw				d	3.01		For poles 1806.3.4	2

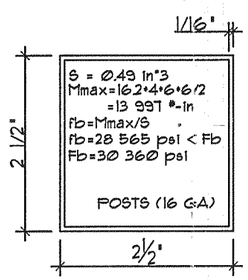


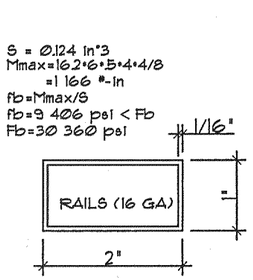
TYP. FENCE PLAN VIEW
SCALE: 3/4"=1'-0"

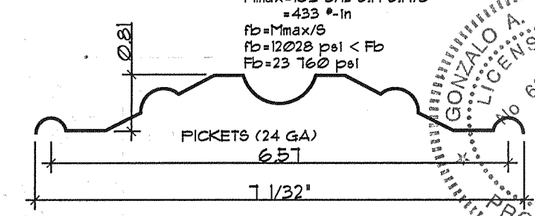


FENCE CONNECTIONS:
- RAIL TO POSTS TO BE CONNECTED WITH (2) 10-16 KWIK FLEX SCREW by HILTI OR APPROVED EQUAL. ACCESS HOLE AT RAILS TO BE PROVIDED FOR CONNECTION.
- PICKETS TO BE CONNECTED TO TOP AND BOTTOM RAILS WITH (4 PER PICKET, 2 TOP & 2 BOTTOM) 10-16 KWIK FLEX SCREW by HILTI OR APPROVED EQUAL.

TYP. FENCE ELEV. VIEW
SCALE: 3/4"=1'-0"







GONZALO A. PAZ LICENSE No 60734 STATE OF FLORIDA PROFESSIONAL ENGINEER

Miami Dade County Department of Regulatory And Economic Resources
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SD-1-0629201B.pdf
Examiner Date Time Stamp Disp. Code Stamp Name
Carlos Labiste 7/1/2015 8:48:28 AM 0 SIRU Approved
Carlos Labiste 7/1/2015 8:48:28 AM SIRU * Pool Barrier *

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CERT. OF AUTHORIZATION No. 26655

San Lazaro
FENCING SUPPLIES INC.
7724 N.W. 64TH ST MIAMI, FLORIDA 33166
Tel. (305) 592-5400 Fax. (305) 592-5319

PROJECT NAME: RAISSA R. LOPEZ,PE
TYPE OF PROJECT:
SHEET NAME: GONZALO A. PAZ,PE
PROJECT LOCATION: 7351 SW 14 TERR Miami
DATE: 3/14/2015
SHEET NO.: SD-1

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