EXISTING 14" DIA. STEEL POLE TO BE REPAINTED BRONZE.

PROPOSED ELEVATION

EXISTING CONDITION

EXISTING CONDITION

REMOVE AND DISCARD EXISTING CABINET AND SUPPORT TUBE.

REMOVE AND DISCARD EXISTING CABINET. 8" X 8" SUPPORT TUBE TO REMAIN.

REMOVE AND DISCARD POLE COVER AND CABINETS. 14" DIA. EXISTING STEEL POLE TO REMAIN.

1 | Photo Overlay - Pylon Refurbish
NTS
Display Square Footage: 78

EXISTING CABINETS TO BE REMOVED AND DISCARDED (DUE TO DAMAGE CAUSED BY RUST). TOP OF VERTICAL STEEL SUPPORT TO BE CUT OFF FLUSH TO TOP OF BOTTOM CABINET. EXISTING MAIN SUPPORT POLE TO BE REFINISHED AND PAINTED BRONZE TO MATCH NEW CABINET.

NEW ILLUMINATED 12" DEEP DOUBLE SIDED CABINET TO HAVE MUSTANG PAN FACES WITH SURFACE APPLIED **3M 3630-36 BLUE** LETTERING. 1 1/2" HANGBAR RETAINERS AND EXTRUDED ALUMINUM CABINET RETURNS TO BE PAINTED BRONZE. INTERNAL ILLUMINATION BY G.E. WHITE L.E.D. MODULES.

2 | Front Elevation and End View - Pylon Refurbish
1/2" = 1'-0"
Display Square Footage: 78

harbinger
sign of the future
1300 SHAD ROAD, JACKSONVILLE, FL. 32257 904.268.4461

Goodwill
9910 San Jose Blvd
Jacksonville, FL 32257

GDW690-R1 San Jose Blvd - PYLON

F:\Customers\Art
\GDW690-R1 San Jose Blvd - PYLON.cdr

Conceptual/Photo Overlay

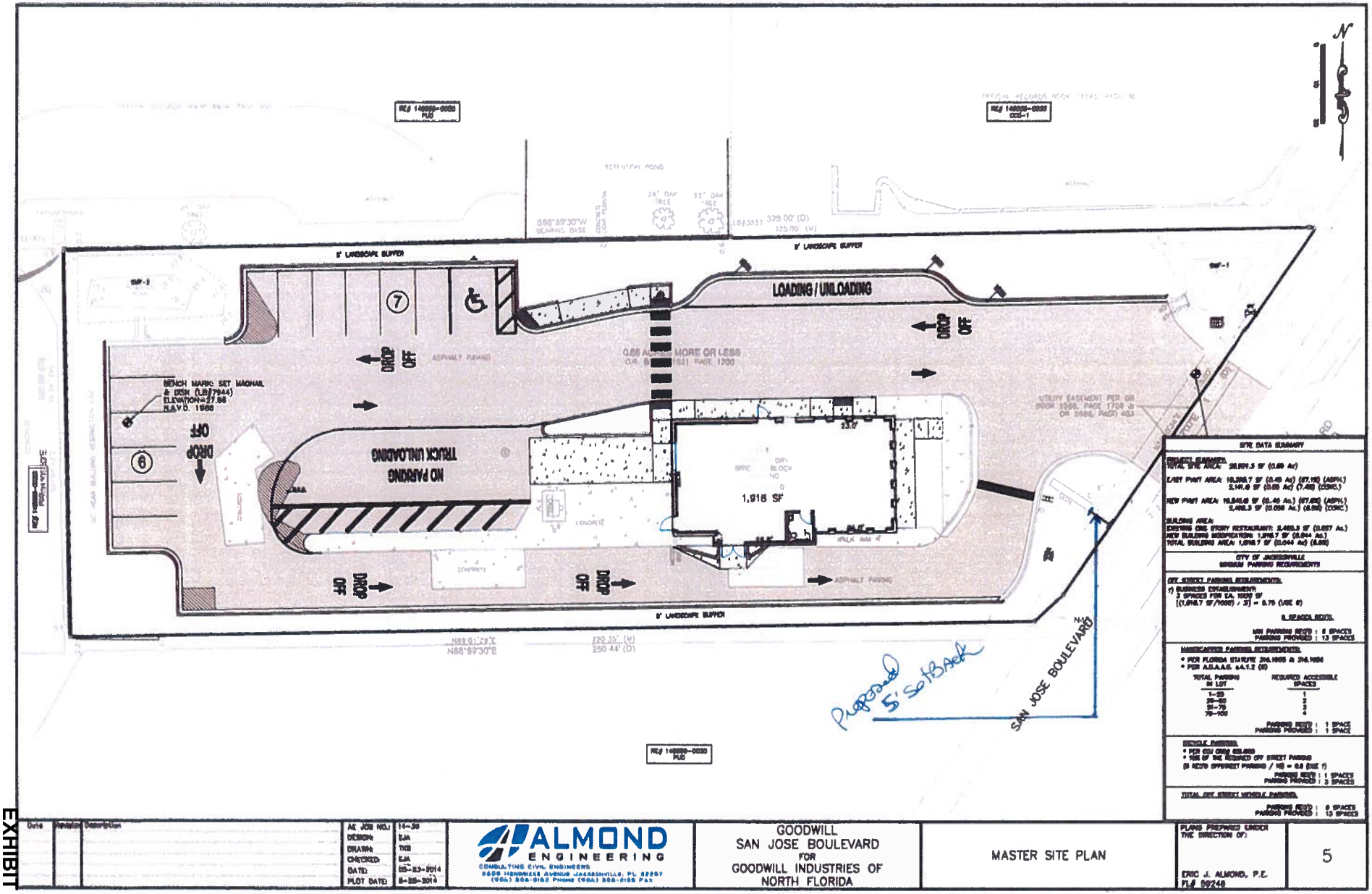
09.26.14 : ORIGINAL CONCEPT
10.03.14 : R1 - added copy - tb

Salesperson: RW PM: JC Designer: TB Page: 1

customer approval date:

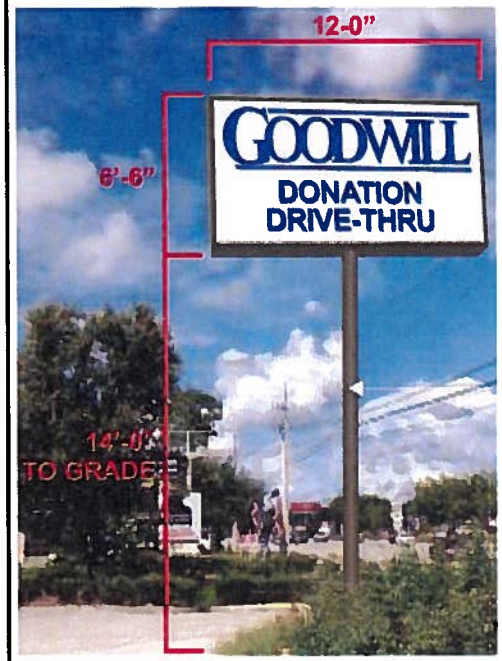
LISTED MET US
Underwriters Laboratories Inc. UL 48
CSA C22.2 No.207

THE SIGNS ON THESE PAGES HAVE BEEN DESIGNED TO MEET OR EXCEED ALL APPLICABLE CODES OR REQUIREMENTS OF THE NEC-2011 AND OR THE 2010 FBC AND OR THE 2007 SFBC

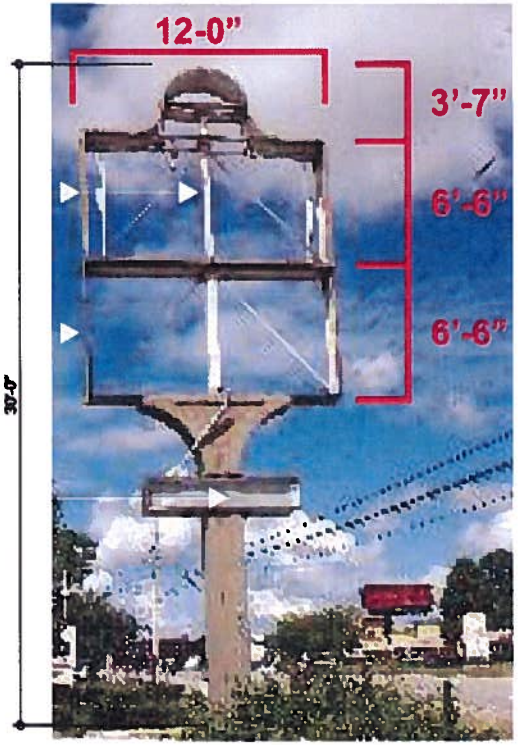


Date	Revision	Description	AE JOB NO.: 14-38 DESIGN: EJA DRAWN: TKB CHECKED: EJA DATE: 05-23-2014 PLOT DATE: 5-28-2014	ALMOND ENGINEERING CONSULTING CIVIL ENGINEERS 5699 HENDRICKS AVENUE JACKSONVILLE, FL 32207 (904) 396-8162 Phone (904) 396-8165 FAX	GOODWILL SAN JOSE BOULEVARD FOR GOODWILL INDUSTRIES OF NORTH FLORIDA	MASTER SITE PLAN	PLANS PREPARED UNDER THE DIRECTION OF: ERIC J. ALMOND, P.E. FLA 59248	5

EXHIBIT 2
PAGE 2 OF 3



NEW SIGN



EXISTING SIGN

1. SIGN INSTALLER AND MANUFACTURER RESPONSIBILITIES: By using this engineering the owner, manufacturer, and installer accept responsibility to:
   a. Design sign cabinet, board, and face according to sign code, building code, and UL.
   b. Verify site conditions match stated wind speed, risk, exposure, topo, and soil factors.
2. ENGINEER'S SCOPE OF WORK: This report documents a comparison of wind load on an existing sign column and foundation when an existing permitted sign cabinet is replaced by a new equal size or smaller sign cabinet. The new sign will put less stress on the existing column and foundation as there is now with the existing sign. Square footage of existing and new replacement signs scaled from photo attached.
   a. Wind controls structural design. This design only MWFRS; not C&C.
   b. Size and shape based on sign manufacturer's drawing, attached.
3. Wind Design Data
   a. Design Wind Speed, Vult = 130 mph
   b. Risk Category = II, (MRI = 700 yr)
   c. Wind Exposure = C, field verify
   d. Internal Pressure Coefficient, Cpi = N/A, (Does not effect column load)
   e. Component and Cladding Wind Pressure = n/a
4. Wind loads by ASCE 7-10, Ch. 29, Fig. 29.4-1, Solid Freestanding Walls and Signs.
   a. Sign Height = 20.5 ft, Kz = .94 Kd = .85
   b. Aspect Ratio, B/s = 12'/6.5' = 1.85; Clearance Ratio, s/h = 6.5'/20.5' = .32; Cf = 1.8
   c. Gust-Effect Factor, G = .85, (Rigid structure)
   d. Wind Directionality Factor, Kd = .85, (Solid/open freestanding or attached signs)
   e. Topographic Factor = 1.0, field verify
   f. Velocity Pressure = qh = 0.00256 * Kz * Kzt * Kd * V² = .00256 * .94 * .85 * 130^2 = 34.6 psf
   g. Factored Wind Pressure = P = qh * G * Cf = qh * .85 * 1.8 = 52.9 psf
   h. Wind Force on Existing Sign = F = P * A = P * 196 ft2 = 10304 lb
   i. Wind Force on New Sign = F = P * A = P * 92 ft2 = 4795 lb
   j. Moment at Grade, Existing Sign = F * h = F * 18.9' = 194.4 kip.ft
   k. Moment at Grade, New Sign = F * h = F * 15.8' = 75.9 kip.ft
5. Sign manufacturer/installer's design, detailing, fabrication, and erection shall conform to the following specifications: Building Code, ASTM specifications, ACI-318 for reinforced concrete, American Welding Society Code for Welding in Building Construction, AISC Specification for Design, Fabrication, and Erection of Structural Steel for Buildings,
6. Materials of construction: (Unless otherwise noted.)
   a. Structural steel shall be A-36, Fy = 36 ksi.
   b. Structural steel tubing shall be A-500, Grade B, Fy = 46 ksi.
   c. Structural aluminum tubing shall be 6063, 6061-T6, or equivalent, Fy = 20 ksi min.
   d. Structural piping shall be A-53, Grade B, Type E or S, Fy = 35 ksi.
   e. Anchor bolts shall be A-307 with heavy hex at bottom, not "L" bolts, UNO.
   f. Connection bolts shall be A-325, snug tight.
   g. Rebar shall be Grade 60 for #6 or larger, Grade 40 for #5 or smaller.
   h. Concrete shall be 3000 psi.
7. Welding...
   a. Design and fabrication according to AWS D1.1.
   b. AWS certification required for all structural welders.
   c. E70XX electrodes for SMAW processes.
   d. F7X-EXXX electrodes for SAW processes.
8. Soil must be verified by sign installer. Bearing capacity 2000 psf and sides 200 psf per ft depth (1.3 for wind). If there is a question about bearing capacity, a soil test must be performed.
9. Contractor shall verify all dimensions and conditions in the field before erection and notify the engineer of any discrepancies.
10. Sign Column Bending.
    a. Existing column size unknown but bending moment will be less or equal with the new sign than with the existing permitted sign.
11. Foundation Overturning.
    a. Existing foundation size is unknown but overturning moment will be less or equal with the new sign than with the existing permitted sign.

CERTIFICATION: To best of my knowledge, I certify this analysis meets structural requirements of:
2010 Florida Building Code

LIMITATION: Valid for only one sign, at specified location. In case of conflict, structural requirements, scope of work, and installer, mfg, owner responsibilities control.

THIS SEAL FOR STRUCTURAL ONLY
MARK DISOSWAY, PE
FL 69015
MARK D DISOSWAY LICENSE NO. 69015 STATE OF FLORIDA PROFESSIONAL ENGINEER
Monday, December 15, 2014

Harbinger

Goodwill 9910
(Pylon Sign)

LOCATION OF SIGN:
9910 San Jose Blvd.
Jacksonville, FL 32257

Mark Disosway P.E.
163 SW Midtown Place, Suite 103
Lake City, Florida 32024
Phone: (386) 754 - 5419
Fax: (386) 269 - 4871
Email:
engineer@mysignengineering.com
Web Site:
www.mysignengineering.com

PRINTED DATE:
Monday, December 15, 2014

DRAWN BY:	CHECKED BY:
David Disosway	Mark Disosway P.E.

FINALS DATE:	
17Mar14	

JOB NUMBER:
141105

DRAWING NUMBER
S-1
OF 1 SHEET