

Rcvd 03.24.2023

City of Bethlehem, Pennsylvania

LICC - April 17, 2023

"ORIGINAL"

APPLICATION FOR CERTIFICATE OF APPROPRIATENESS (COA)

Building address 322 E. 3RD ST

Owner of building CHRIS PEKTOR / ASHLEY DEVELOPERS Phone [REDACTED]

Owner's email & mailing address 559 MAIN ST Bethlehem PA 18018

Applicant Ray Rabich Phone: [REDACTED]

Applicant's email & mailing address [REDACTED]

Street and Number 2028 JUNIOR BLVD City Allentown State PA Zip Code 18109

APPLICANT MUST ATTEND MEETING FOR CASE TO BE HEARD.

USE THE CHECKLIST ON THE BACK OF THIS APPLICATION TO ENSURE YOUR SUBMISSION IS COMPLETE.

Application form, photographs, and drawings must be submitted (see attached for deadline) prior to the regular scheduled meeting in order to be placed on the agenda for the next meeting.

1. **PHOTOGRAPHS** - Photographs of your building and neighboring buildings **must accompany** your application.

2. **TYPE OF WORK PROPOSED** - Check all that apply. Please bring any samples or manufactures specifications for products you will use in this project.

<input type="checkbox"/> Trim and decorative woodwork	<input type="checkbox"/> Skylights
<input type="checkbox"/> Siding and Masonry	<input type="checkbox"/> Metal work
<input type="checkbox"/> Roofing, gutter and downspout	<input type="checkbox"/> Light fixtures
<input type="checkbox"/> Windows, doors, and associated hardware	<input checked="" type="checkbox"/> Signs
<input type="checkbox"/> Storm windows and storm doors	<input type="checkbox"/> Demolition
<input type="checkbox"/> Shutters and associated hardware	<input type="checkbox"/> Other _____
<input type="checkbox"/> Paint (Submit color chips - HARB only)	

3. **DRAWINGS OF PROPOSED WORK** - Required drawings **must accompany** your application. Please submit **ONE ORIGINAL AND TEN (10) COPIES OF DRAWINGS, PHOTOGRAPHS, APPLICATION FORM, AND ANY SPECIFICATIONS**

Alteration, renovation, restoration (1/4 or 1/8"=1'0" scale drawings required IF walls or openings altered.)

New addition (1/4" or 1/8"=1'0" scale drawings: elevations, floor plans, site plan)

New building or structure (1/4" or 1/8"=1'0" scale drawings: elevations, floor plans, site plan)

Demolition, removal of building features or building (1/4" or 1/8"=1'0" scale drawings: elevation of remaining site and site plan)

A scale drawing, with an elevation view, is required for all sign submittals

4. **DESCRIBE PROJECT** - Describe any work checked in #2 and #3 above. Attach additional sheets as needed.

PINNED ACRYLIC LETTERS "THE ORCHARD STEAKHOUSE"
ROUTED PVC SIGN

(SIGN REPLACING OLD MOLINARI SIGNAGE)

5. **APPLICANT'S SIGNATURE** Ray Rabich **DATE:** 3/12

OWNER'S SIGNATURE [Signature] **DATE:** 3/27/2023



45"



45"

24"



2028 UNION BLVD
ALLENTOWN, PA 18109
www.projectprinted.com
610-443-0629

CLIENT:
THE ORCHID

CONTACT:

NOTES:

PROJECT SCOPE:

ADDRESS:

The customer understands that this drawing is the sole property of Project Printed and said customer shall not reproduce nor use in any manner except for intended purpose agreed to except by the management of this business. Any deviation or reproduction is in violation of the law.

CUSTOMER APPROVAL:

**[P] PROJECT
PRINTED**

PROJECT SCOPE
SIGN



1'125"
3'9" x 3'9"
14 SF

2'0"

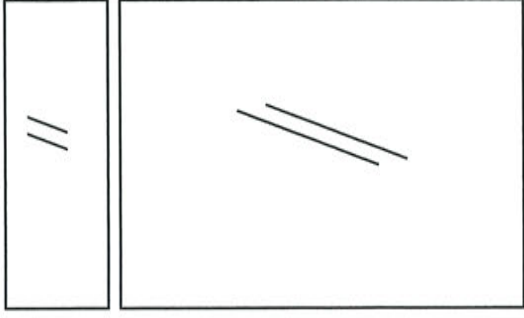
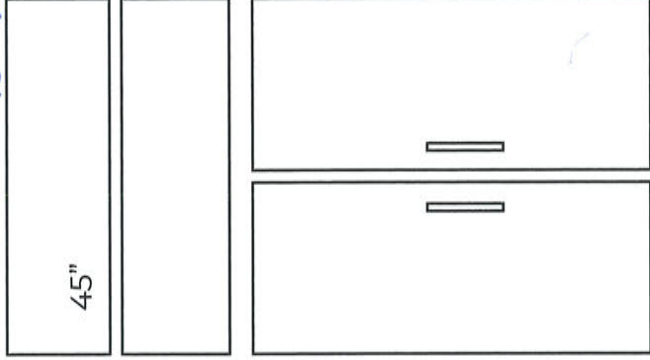
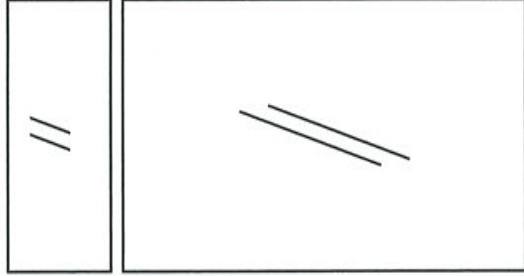
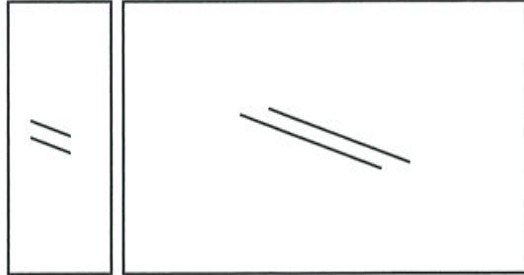


THE ORCHID

3'5"

13'7"

27 SF



CLIENT:
THE ORCHID

Notes:
Scale: 1/4" = 1'0"

The customer understands that this drawing is the sole property of Project Printed and said customer shall not reproduce nor use in any manner except for the intended purpose agreed to except by the management of this business. Any deviation or reproduction is in violation of the law. You are committing to this artwork and will be responsible for all costs. Please verify there are no errors in this approval. Any changes after committing to the design will result in additional fees.

CUSTOMER APPROVAL:

Sign Design Based On 2018 IBC w/Amendments

Job # JTS_4423
 Project The Orchard - Channel Letter & Logo
 Job Location 322 East 3rd St
 Bethlehem, PA

Consider Letter "H"

INPUT DATA

Exposure category (B, C or D) = C
 Risk Category = II
 Ultimate Design Windspeed V_{ult} = 115 MPH
 Topographic factor K_{zt} = 1.0
 Max Height of the sign H = 18.00 FT
 Vertical dimension (for wall, $s = h$) s = 1.42 FT
 Average Horizontal dimension B = 0.51 FT
 Dimension of return corner L = 0.25 FT

ANALYSIS

Velocity pressure $q_z = 0.00256 K_z K_d K_x K_{zt}$
 where:
 q_z = velocity pressure at height z . (Eq. 26.10-1 page 268)
 K_z = velocity pressure exposure coefficient evaluated at height above ground level z . (Tab. 26.10-1, page 268)
 K_d = wind directionality factor. (Tab. 26.6-1, page 266)
 K_x = ground elevation factor. (Tab. 26.9-1, page 268)

Wind Force on Low Rise Buildings: (Sec. 30.4.2 & 29.4)
 Max horizontal wind pressure = $p = q_z C_{pe}$ = 27.88 PSF
 C_{pe} = external pressure coefficients (Fig. 30.5-1, page 303)
 A_x = B or s = the gross area = 1.10
 = 0.7 FT²

DESIGN SUMMARY

Allowable Stress Design Wind Factor = 0.8
 Design Wind Pressure = 16.71 PSF
 Design Windforce, F = 18.71 x A_x = 0.01 KIPS

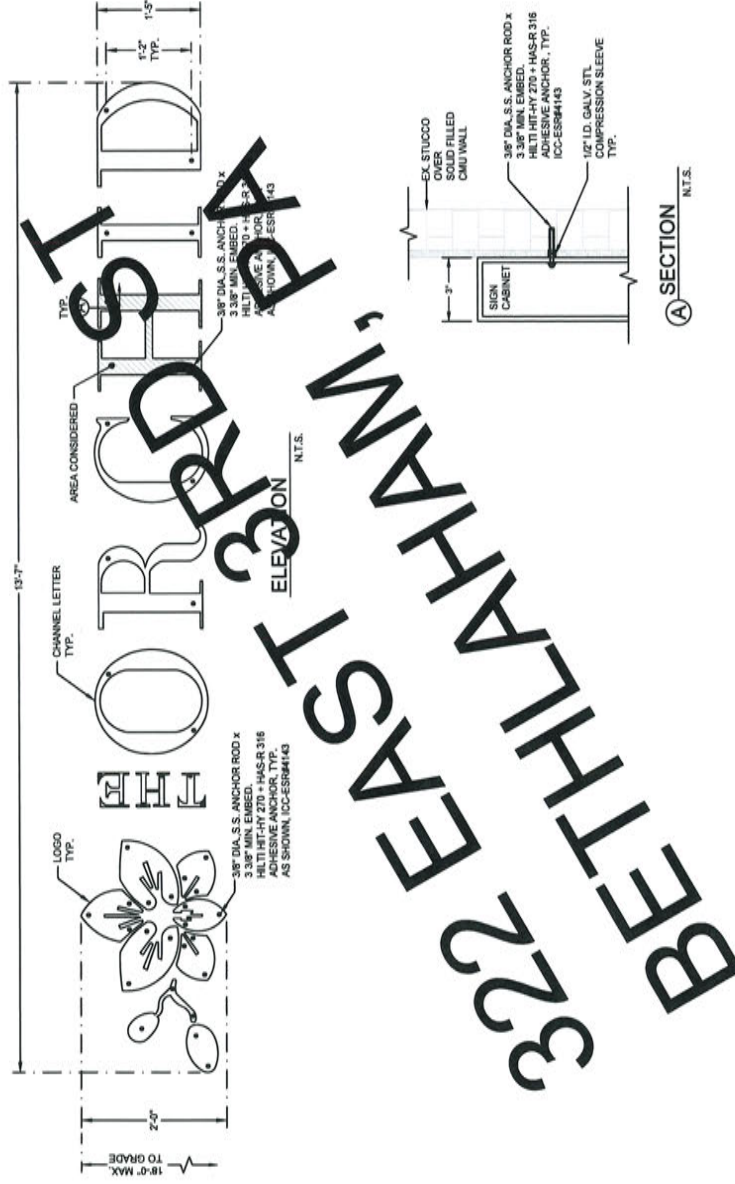
Sign Parameters:
 Weight of cabinet, DL = 4 LBS
 Vertical distance between anchors, y = 1.17 FT
 b (return) = 0.26 FT
 Offset from wall = 0.00 FT
 Min. no. of top or bolt anchors = 1 NO

Anchor Design

Tension Req'd. USE ICC-ESR 4143
 $T = 7$ 3/8" DIA. S.S. ANCHOR ROD x T = 868
 Shear Req'd. 3/8" MIN. EMBED.
 $V = 2$ (7 / 868) + (2 / 748) = 0.01 < 1.0(OK)
 Unity =

WELDINGS

DESIGN AND FABRICATION ACCORDING TO AWS D1.1 / D1.3
 STEEL
 DESIGN AND FABRICATION REQUIRED FOR ALL STRUCTURAL WELDERS.
 • E70 XX ELECTRODE FOR ALL STRUCTURAL WELDERS.
 • E70 XX ELECTRODE FOR GMAW PROCESS.
 • E70 XX ELECTRODE FOR GTAW PROCESS.
 • E70 XX ELECTRODE FOR FCAW PROCESS.
 ALL WELDS SHALL BE MADE WITH A FILLER METAL THAT CAN PRODUCE WELDS THAT HAVE A MINIMUM CHARPY V-NOTCH TOUGHNESS OF 20FT-LB AT ZERO ° AS DETERMINED BY THE APPROPRIATE AWS AS CLASSIFICATION PROC OR MFPS. CERTIFICATION.
 DESIGN AND FABRICATION ACCORDING TO AWS D1.2. ALL WELDING IN ACCORDANCE WITH THE LATEST EDITION OF THE AWS A5.10.
 FILLER ALLOYS PER TABLES M5.1 & M5.2 OF 2015 ALUMINUM DESIGN MANUAL.



NOTE: SPECIAL INSPECTION REQUIRED FOR POST INSTALLED ANCHOR PER ICC-ESR#143

NOTES :

- GENERAL:**
- SIGN DESIGN IS BASED ON ADEQUATE EXISTING SUPPORT ELEMENTS.
 - PROVIDE ISOLATION OF DISSIMILAR MATERIALS.
 - COAT ALUMINUM IN CONTACT WITH CONCRETE WITH ZINC-RICH PAINT.
 - THERE IS NO PROTECTION ZONE AS DEFINED IN ASCE 31-16.
 - PROVIDE FULLY WELDED END CAPS AT EXPOSED OPEN ENDS OF STEEL /ALUM. TUBES. MATCH THICKNESS LIKE FOR LIKE.
 - SLOPE TOP OF EXPOSED FOOTING AWAY FROM DIRECT BURIAL POSTS
 - ALL EXPOSED STEEL TO BE PRIMED & PAINTED (POWDER COAT AS AN OPTION) OR ALTERNATIVELY USE GALVANIZED STEEL.
- ANCHORS:**
- BRAND NAME APPROVED POST INSTALLED ANCHORS SPECIFIED ON PLANS MAY BE SUBSTITUTED BY APPROVED EQUAL.

- STEEL:**
- DESIGN AND FABRICATION ACCORDING TO 2018 IBC W/AMENDMENTS
 - PLATE - ANGLE, CHANNEL, TEE: ASTM A36
 - WIDE FLANGE: ASTM A992
 - ROUND PIPE: ASTM A53 GRADE B OR EQUIVALENT.
 - HSS ROUND, SQUARE, AND RECTANGULAR TUBE: ASTM A500 GRADE B OR EQUIVALENT.
 - ALL ANCHORS BOLTS SHOULD BE ASTM F1554
 - ALL STEEL MACHINED BOLTS SHOULD BE: ASTM A307 OR ASTM A468
 - ALL STEEL MACHINED BOLTS SHOULD BE: ASTM A276
 - ALL STEEL BOLTS SHOULD BE GALVANIZED OR GALVANNEAL
 - DEFORMED REINFORCING BARS: ASTM A615 GRADE 60 ALUMINUM

- WELDINGS:**
- DESIGN AND FABRICATION ACCORDING TO AWS D1.1 / D1.3
 - STEEL
 - DESIGN AND FABRICATION REQUIRED FOR ALL STRUCTURAL WELDERS.
 - E70 XX ELECTRODE FOR ALL STRUCTURAL WELDERS.
 - E70 XX ELECTRODE FOR GMAW PROCESS.
 - E70 XX ELECTRODE FOR GTAW PROCESS.
 - E70 XX ELECTRODE FOR FCAW PROCESS.
 - ALL WELDS SHALL BE MADE WITH A FILLER METAL THAT CAN PRODUCE WELDS THAT HAVE A MINIMUM CHARPY V-NOTCH TOUGHNESS OF 20FT-LB AT ZERO ° AS DETERMINED BY THE APPROPRIATE AWS AS CLASSIFICATION PROC OR MFPS. CERTIFICATION.
 - DESIGN AND FABRICATION ACCORDING TO AWS D1.2. ALL WELDING IN ACCORDANCE WITH THE LATEST EDITION OF THE AWS A5.10.
 - FILLER ALLOYS PER TABLES M5.1 & M5.2 OF 2015 ALUMINUM DESIGN MANUAL.

PROJECT JOB #: JTS	REV. NO. (REV. DATE)	REVISIONS
PROJECT LOCATION: 322 EAST 3RD ST. BETHLEHEM, PA	1 - 11-11-2023	1 - CHANGED TO 3/8\"/>
DATE LAST REVISED: March 03, 2023	2 - 11-11-2023	2 - AS SHOWN
SCALE: AS SHOWN	3 - 11-11-2023	3 - AS SHOWN
PLOTTED BY: Nadia Chavez	ON: 3/6/2023 2:22:21 PM	
THE ORCHARD CHANNEL LETTER & LOGO	322 EAST 3RD ST BETHLEHEM, PA	
www.yjtrc.com	P.O. BOX 802050	SANTA CLARITA, CA 91386
TEL: (661)258-0700	FAX: (661)258-6900	
SHEET TITLE	SHEET #	1 OF 1



Sign Design Based On 2018 IBC w/Amendments

Job # JTS-44423
 Project The Orchard - Wall Sign
 Job Location 322 East 3rd St.
 Berks, PA

INPUT DATA

Exposure category (B, C or D)	=	C
Risk Category	=	II
Ultimate Design Windspeed	=	115 MPH
Topographic factor	=	1.0
Mean Height of the sign	=	18.00 FT
Average Horizontal dimension (for wall, s = h)	=	3.75 FT
Average Horizontal dimension	=	2.94 FT
Dimension of return corner	=	0.25 FT

ANALYSIS

Yield Stress, F_y	=	25.32 PSF
where:		
Q_s = velocity pressure at height h_s (Eq. 26.10-1, page 268)	=	0.68
K_z = velocity pressure exposure coefficient evaluated at height above ground level, h (Tab. 26.10-1, page 268)	=	0.85
K_d = wind directionality factor (Tab. 26.6-1, page 266)	=	1.00
K_e = ground elevation factor, see (Tab. 26.5-1, page 268)	=	

Wind Force on Sign (Sec. 30.4.2 & 29.4)

Ultimate horizontal wind pressure = $p = q_s C_{pe}$	=	27.68 PSF
C_{pe} = external pressure coefficient (Fig. 30.5-1, page 363)	=	1.29
A_g = B_s = the gross area	=	11.9 FT ²

DESIGN SUMMARY

Allowable Stress Design Wind Factor =	0.6
Design Wind Pressure =	16.60 PSF
Design Windforce, F =	16.60 x A_g = 0.18 KIPS

Sign Parameters:

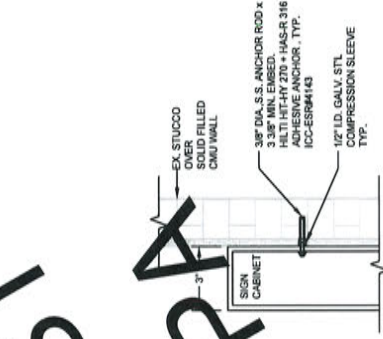
Weight of cabinet, D_L =	45 LBS
Vertical distance between anchors, y =	2.25 FT
b (return) =	0.25 FT
Offset from wall =	0.00 FT
Min. no. of top or bott. anchors =	2 NO

Anchor Design

HLTI HIT-HY 270 + HAS-R 316 ADHESIVE ANCHOR	
USE ICC-ESR #4143	
3/8" DIA. S.S. ANCHOR ROD x	T = 858
3.31" MIN. EMBED.	V = 748
Unity =	(94 / 858) + (23 / 748) = 0.14 < 1 (OK)

WELDING:

DESIGN AND FABRICATION ACCORDING TO AWS D1.1, D1.3
 - AWS CERTIFICATION REQUIRED FOR ALL STRUCTURAL WELDERS.
 - ER70XX ELECTRODE FOR GTAW PROCESS.
 - ER70XX ELECTRODE FOR GTAW PROCESS.
 - ER70XX ELECTRODE FOR GTAW PROCESS.
 ALL WELDS SHALL BE MADE WITH A FILLER METAL THAT CAN PRODUCE WELDS THAT HAVE A MINIMUM CHARPY V-THOUGHNESS OF 20FT-LB AT ZERO ° AS DETERMINED BY THE APPROPRIATE AWS AS CLASSIFICATION TEST METHOD OR WFS. CERTIFICATION.
 DESIGN AND FABRICATION ACCORDING TO AWS D1.2, ALL WELDING ACCORDANCE WITH THE LATEST EDITION OF THE AWS A.5.10. FILLER ALLOYS PER TABLES A5.1 & M.8.2 OF 2015 ALUMINUM DESIGN MANUAL.



SECTION A-N.T.S.

ELEVATION N.T.S.

NOTE: SPECIAL INSPECTION REQUIRED FOR POST INSTALLED ANCHOR PER ICC-ESR#4143

NOTES:

- GENERAL:**
- SIGN DESIGN IS BASED ON ADEQUATE EXISTING SUPPORT ELEMENTS.
 - PROVIDE ISOLATION OF DISSIMILAR MATERIALS.
 - COAT ALUMINUM IN CONTACT WITH CONCRETE WITH ZINC RICH PAINT.
 - THERE IS NO PROTECTION ZONE AS DEFINED IN AISC 341-18.
 - PROVIDE FULLY WELDED END CAPS AT EXPOSED OPEN ENDS OF STEEL / ALUM. TUBES, MATCH THICKNESS LIKE FOR LIKE.
 - SLOPE TOP OF EXPOSED FOOTING AWAY FROM DIRECT BURIAL POSTS
 - ALL EXPOSED STEEL TO BE PRIMED & PAINTED / POWDER COAT AS AN OPTION OR ALTERNATIVELY USE GALVANIZED STEEL.
- ANCHORS:**
- BRAND NAME APPROVED POST INSTALLED ANCHORS SPECIFIED ON PLANS MAY BE SUBSTITUTED BY APPROVED EQUAL.
- STEEL:**
- DESIGN AND FABRICATION ACCORDING TO 2018 IBC W/AMENDMENTS
 - PLATE, ANGLE, CHANNEL, TEE - ASTM A36
 - WIDE FLANGE - ASTM A992
 - ROUND PIPE, ASTM A53 GRADE B OR EQUIVALENT.
 - HSS ROUND, SQUARE, AND RECTANGULAR TUBE, ASTM A500 GRADE B OR EQUIVALENT.
 - ALL ANCHORS BOLTS SHOULD BE ASTM F1554
 - ALL STEEL INCH BOLTS SHOULD BE ASTM A307 OR ASTM A449
 - ALL 3/8" DIAM STEEL BOLTS SHOULD BE ASTM A325
 - ALL 1/2" DIAM STEEL BOLTS SHOULD BE ASTM A325
 - DEFORMED REINFORCING REBAR - ASTM A615 GRADE 60 ALUMINUM
 - DESIGN AND FABRICATION ACCORDING TO 2015 ALUM. DESIGN MANUAL
 - PLATES, ANGLES, CHANNELS, TEE, AND SQUARE TUBING, ALUMINUM
 - ALLOY 6061 - T6 WITH 0.008 LBS PER CUBIC INCH.

322 EAST HIGHLAND ST



www.jts.com
 P.O. BOX 802650
 SANTA CLARITA, CA 91380
 TEL: (818) 255-0100 FAX: (818) 255-0800

SHEET TITLE: THE ORCHARD WALL SIGN
 PROJ. START DATE: March 03, 2023
 SCALE: AS SHOWN
 PLOTTED BY: Nadea Chaves ON: 3/9/2023 2:22:18 PM

JOB NO.	JTS-44423	REV. NO.	1	REV. DATE	-	REVISED BY	-
CHECKED BY	J.T.	PROJ. START DATE	March 03, 2023	SCALE	AS SHOWN		
DATE	3/9/2023						
PROJECT LOCATION	THE ORCHARD, 322 EAST 3RD ST, BETHLEHAM, PA						
SHEET #	1 OF 1						