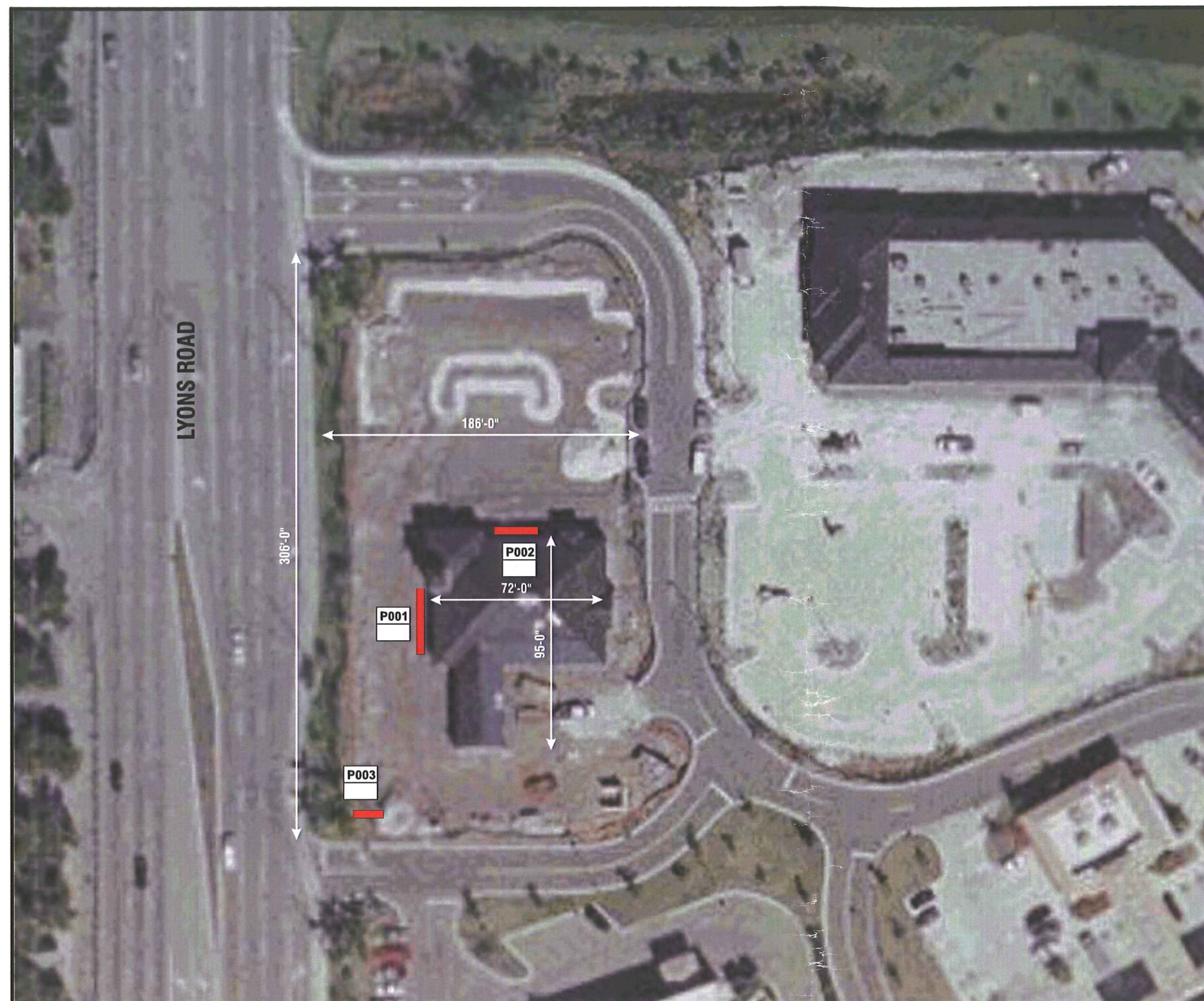
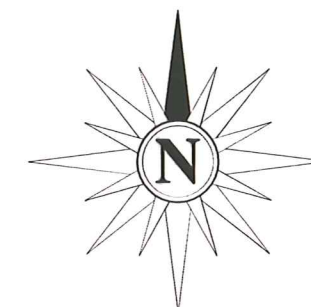


RECEIVED

AUG 18 2009

CITY OF COCONUT CREEK  
DEVELOPMENT SERVICE



*Zoning Copy*

**APPROVED**

DATE: 9/1/09 BY: [Signature]  
**ADMINISTRATIVE APPROVAL**



**Address:** 4560 Lyons Road  
**City/State:** Coconut Creek, FL.  
**Zip:** 33073

Project #: 3202

Location #:003

Page: 1

Scale: As Noted

Drawn by: KP

File Path: Active\BANKS\P\PNC Bank\2009\3202-003 Coconut Creek FL

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Date: 05/30/09  
Rev. 1: 06/12/09  
Rev. 2: 00/00/09  
Rev. 3: 00/00/09  
Rev. 4: 00/00/09



1418 Elmhurst Rd.  
Elk Grove Village  
Illinois 60007





Existing Sign #: P001

H 18" W 12'-2 3/4" D N/A OAH N/A

Note:

Illum. ☒

Non Illum. ☐

S/F ☒

D/F ☐



Proposed Sign #: P001

Note:



**CUSTOM FLUSH MOUNTED ILLUMINATED CHANNEL LETTERS-18.7 SQ. FT.**

QTY:1

**LENGTH**

ALLOWED=14.8

PROPOSED=11'-3 3/8"

SCALE: 3/8"=1'-0"

**Electrical Notes:**

All electrical components will be UL listed and approved as per 2005 NEC 600-4 & FBC 4505-4 & designed to UL #48 per F.S. 553.19.

All signs are to be grounded and bonded per NEC 600-7 and 250.95.

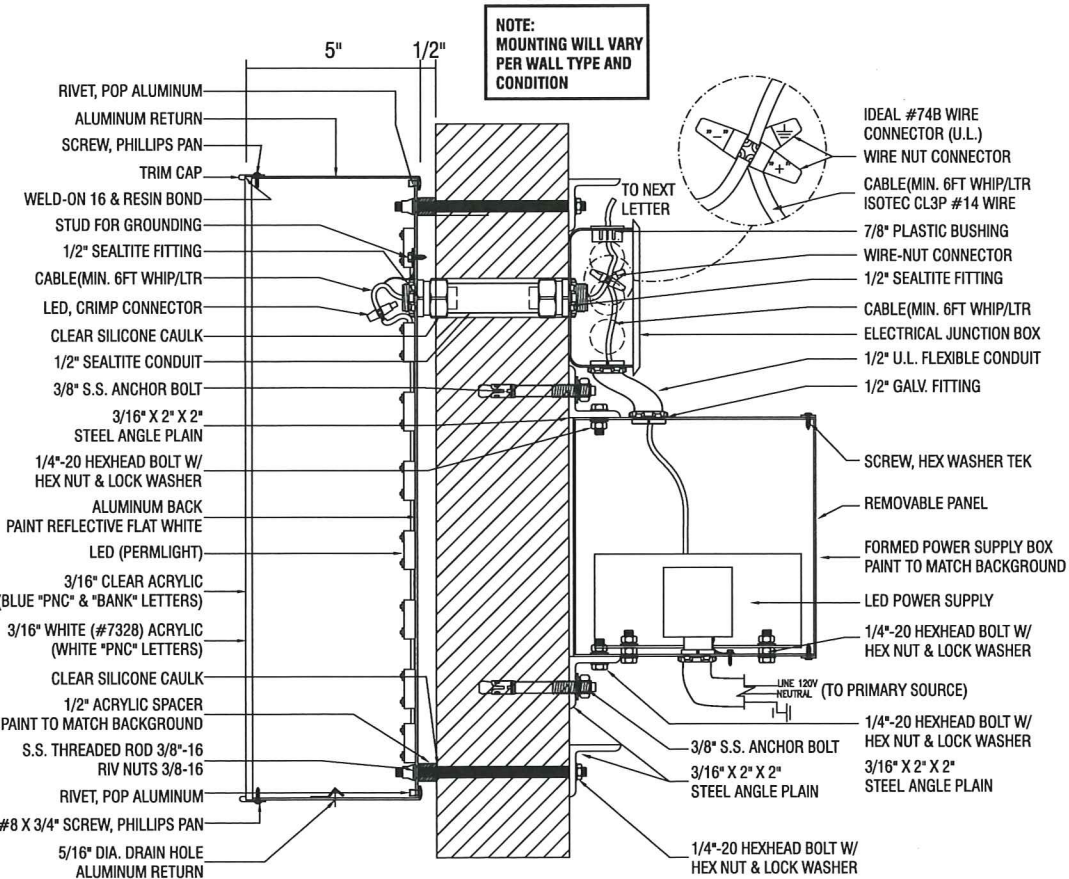
All wiring inside letters will be #3730 high tension GTO.

All primary wiring will be #12 THWN high tension as per NEC 600-21.

These plans comply with FBC 4505-21.

Primary electrical source to be supplied by customer to within sixfeet of sign.

This sign is a UL listed assembly per NEC 600.3



**FLUSH MOUNTED LED CHANNEL LETTER SECTION DETAIL (REMOTE)**

SCALE: N.T.S.



**Address:** 4560 Lyons Road  
**City/State:** Coconut Creek, FL.  
**Zip:** 33073

Project #: 3202

Location #:003

Page: 2

Scale: As Noted

Drawn by: KP

File Path: Active\BANKS\P\PNC Bank\2009\3202-003 Coconut Creek FL

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Date: 06/30/09  
Rev. 1: 07/06/09  
Rev. 2: 07/08/09  
Rev. 3: 08/06/09  
Rev. 4: 00/00/09





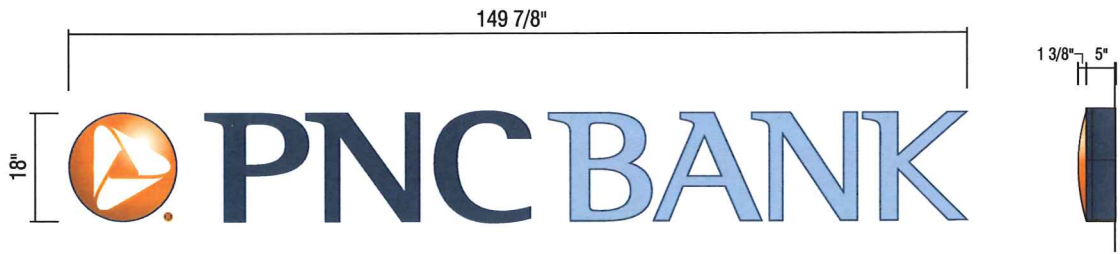


Existing Sign #: P002  
H 18" W 12'-2 3/4" D N/A OAH N/A  
Note: \_\_\_\_\_

Illum. ☒  
Non Illum. ☐  
S/F ☒  
D/F ☐



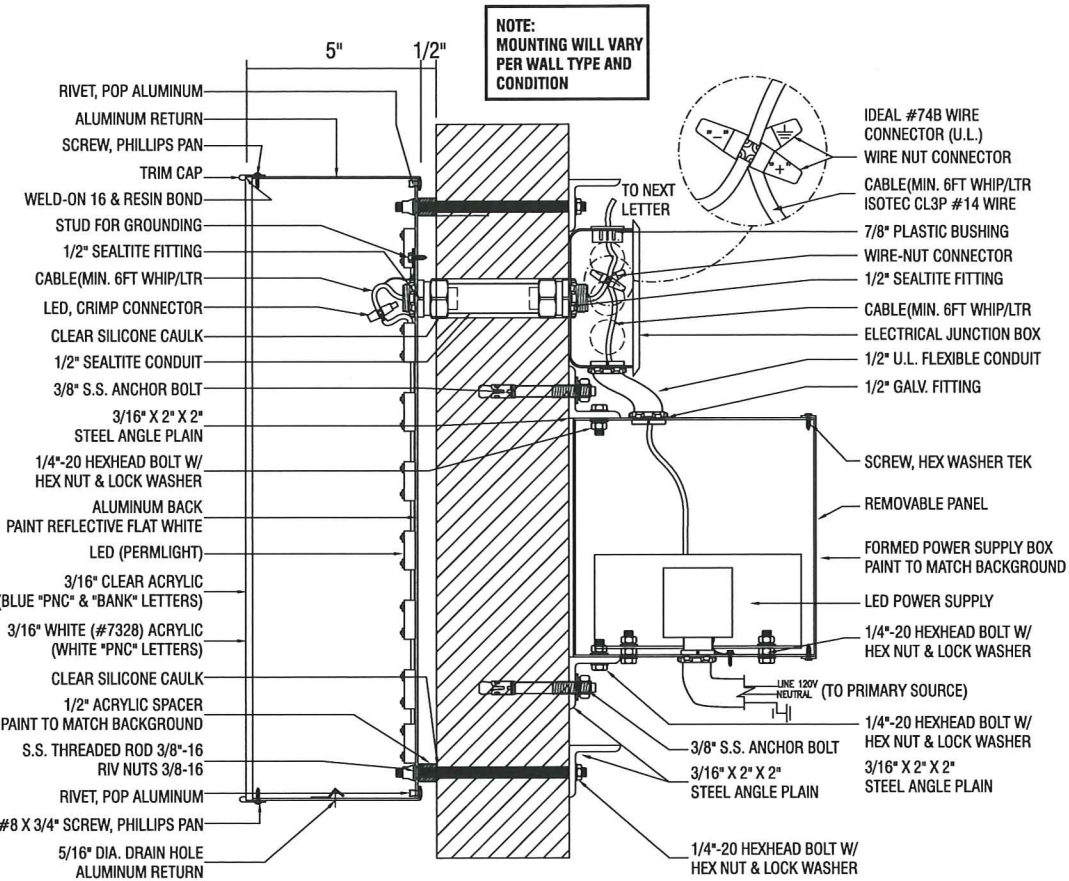
Proposed Sign #: P002  
Note: \_\_\_\_\_



**CUSTOM FLUSH MOUNTED ILLUMINATED CHANNEL LETTERS-18.7 SQ. FT.**  
QTY:1  
ALLOWED=14.8  
PROPOSED=11'-3 3/8"  
SCALE: 3/8"=1'-0"



**Electrical Notes:**  
All electrical components will be UL listed and approved as per 2005 NEC 600-4 & FBC 4505-4 & designed to UL #48 per F.S. 553.19. All signs are to be grounded and bonded per NEC 600-7 and 250.95. All wiring inside letters will be #3730 high tension GTO. All primary wiring will be #12 THWN high tension as per NEC 600-21. These plans comply with FBC 4505-21. Primary electrical source to be supplied by customer to within sixfeet of sign. This sign is a UL listed assembly per NEC 600.3



**FLUSH MOUNTED LED CHANNEL LETTER SECTION DETAIL (REMOTE)**  
SCALE: N.T.S.



**Address:** 4560 Lyons Road  
**City/State:** Coconut Creek, FL.  
**Zip:** 33073

**Project #:** 3202 **Location #:**003 **Page:** 3 **Scale:** As Noted **Drawn by:** KP  
**File Path:** Active\BANKS\P\PNC Bank\2009\3202-003 Coconut Creek FL  
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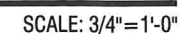
**Date:** 06/30/09  
**Rev. 1:** 07/06/09  
**Rev. 2:** 07/08/09  
**Rev. 3:** 08/06/09  
**Rev. 4:** 00/00/09





D/F ☐

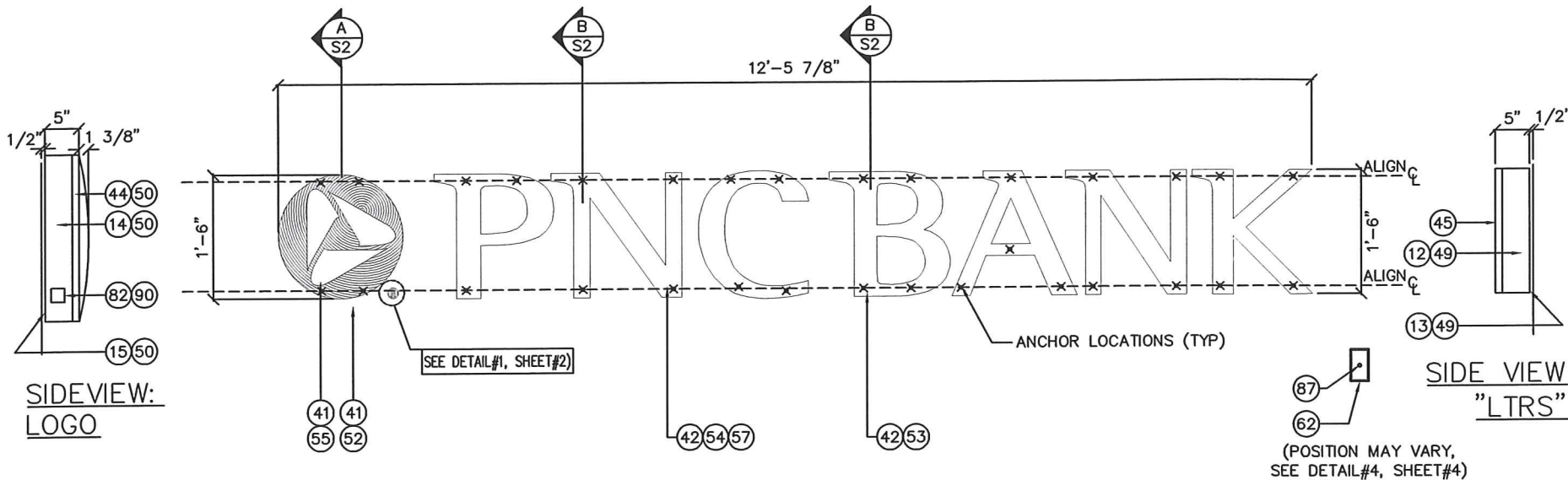
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1418 Elmhurst Rd.  
Elk Grove Village  
Illinois 60007

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140 MPH WIND LOAD  
IMPORTANCE FACTOR 1.0  
EXPOSURE C  
2007 FLORIDA BUILDING CODE  
2009 SUPPLEMENT  
SECTION 16 WIND LOAD  
ASCE 7-05

THIS SIGN TO  
BEAR THIS MARK



ALL EXPOSED INTERIOR  
SURFACES TO BE  
PAINTED WITH LIGHT  
ENHANCEMENT PAINT. (48)

NOTE: LAYOUT SHOWN FOR GRAPHIC  
REPRESENTATION ONLY  
FINAL ARTWORK TO BE SUPPLIED BY CUSTOMER

NOTE: DISCONNECT  
SWITCH TO BE WITHIN  
SIGHT OF SIGN

USE WHITE SILICONE TO  
CONCEAL LIGHT LEAKS

TOLERANCE:  $\pm 1/16"$  ON  
ALL DIMENSIONS

NOTE:  
THIS SIGN IS INTENDED TO BE INSTALLED IN  
ACCORDANCE WITH THE REQUIREMENTS OF  
ARTICLE 600 OF THE NATIONAL ELECTRICAL  
CODE AND/OR OTHER APPLICABLE LOCAL  
CODES. THIS INCLUDES PROPER GROUNDING  
AND BONDING OF THE SIGN.

NOTE: MINIMUM OF (3)  
MOUNTING BOLTS PER  
LETTER & (4) FOR LOGO

ELEVATION

SCALE: 1/2"=1'-0"  
REF. #

B.O.M.

REF. #

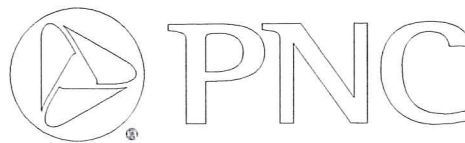
ENCON SERVICES, INC.  
AARON BIEDENBACH  
2272 JAUDON ROAD  
DOVER, FL 33527  
813-655-3373  
FLPE #52949, FLEB #9394



1418 ELMHURST RD.  
ELK GROVE VILLAGE  
ILLINOIS 60007

ENGINEERING DRAWING

PROJECT:



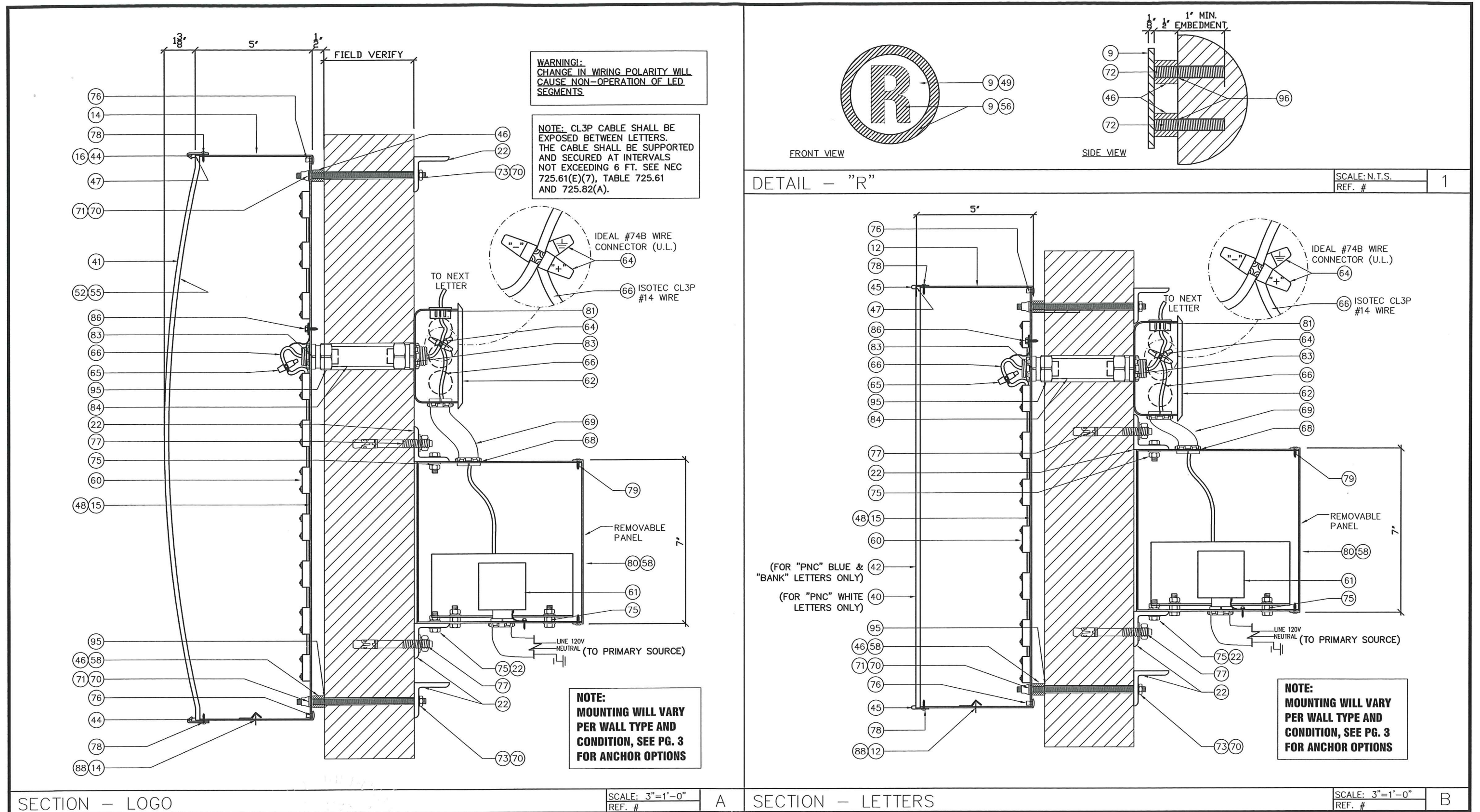
LOCATION: #3  
4560 LYONS RD.  
COCONUT CREEK, FLORIDA

TITLE: 18" LED ILL. CHANNEL LETTERSET W/ LOGO (REMOTE)

No.	QTY.	PART #	DESCRIPTION	SPECIFICATIONS
9	AS REQ'D	-	1/8" ROUTED-OUT ALUM. FLATSTOCK	-
12	AS REQ'D	-	ALUM LETTER RETURN	.050" ALUMINUM SHEET
13	AS REQ'D	-	ALUM LETTER BACK	.090" ALUMINUM SHEET
14	AS REQ'D	-	ALUM LOGO RETURN	.063" ALUMINUM SHEET
15	AS REQ'D	-	ALUM LOGO BACK	.090" ALUMINUM SHEET
16	AS REQ'D	-	ALUM CLIP @ SCREW LOCATION	.050" ALUMINUM FORMED
22	AS REQ'D	STF188005	STEEL ANGLE PLAIN	3/16" X 2" X 2" X 20', A36
41	AS REQ'D	-	0.118" CLEAR ACRYLIC	DROP FORMED IMPACT MODIFIED (OR APPROVED EQUAL)
42	AS REQ'D	-	3/16" CLEAR ACRYLIC	3/16" X 48" X 96'
44	AS REQ'D	PLC000019	TRIM CAP	WHITE JEWELITE, 1/8" X 1"
45	AS REQ'D	-	TRIM CAP	BLUE JEWELITE, 1/8" X 1"
46	AS REQ'D	-	1/2"Ø ACRYLIC SPACER	(OPTIONAL)
47	AS REQ'D	-	WELD-ON 16 & RESIN BOND	-
48	AS REQ'D	-	PAINT INTERIOR TO ZAP WHITE	MATTHEWS #MP74200SP
49	AS REQ'D	-	PAINT TO MATCH PNC BLUE	MATTHEWS #MP31479, SATIN FINISH
50	AS REQ'D	-	PAINT TO MATCH PNC ORANGE	MATTHEWS MP01229 ORANGE, SATIN FINISH
52	AS REQ'D	-	TRANSLUCENT VINYL FILM TO MATCH	ARLON 2500-2919 ORANGE (2ND SURFACE APPLICATION)
53	AS REQ'D	-	TRANSLUCENT VINYL FILM TO MATCH	ARLON 2500-2869 LIGHT BLUE (2ND SURFACE APPLICATION)
54	AS REQ'D	-	WHITE DIFFUSER FILM, TO MATCH	ARLON 5500-30 (2ND SURFACE APPLICATION)
55	AS REQ'D	-	TRANSLUCENT VINYL FILM TO MATCH	ARLON 2500-20 WHITE (2ND SURFACE APPLICATION)
56	AS REQ'D	-	OPAQUE VINYL FILM TO MATCH	ARLON 2500-2919 ORANGE (1ST SURFACE APPLICATION)
57	AS REQ'D	-	BLUE PERFORATED VINYL TO MATCH	ARLON 2914 DUAL COLOR (1ST SURFACE APPLICATION)
58	AS REQ'D	-	PAINT TO MATCH BACKGROUND	-
60	SEE LED CHART	-	LED, PERMLIGHT	(SEE DETAIL #3, SHEET#3 FOR LED TYPE & QUANTITY)
61	SEE LED CHART	-	LED POWER SUPPLY	120V, (SEE DETAIL #3, SHEET#3 FOR QUANTITY)
62	AS REQ'D	-	ELECTRICAL JUNCTION BOX	UL LISTED
64	AS REQ'D	-	WIRE-NUT CONNECTOR	IDEAL #74B, YELLOW, U.L.
65	AS REQ'D	-	LED, CRIMP CONNECTOR	IDEAL #30-146, PRE-INSULATED, U.L.
66	AS REQ'D	-	CABLE (MIN 6FT WHIP/LTR)	ISOTEC 3 #14 AWG (U.L.) CL3P
68	AS REQ'D	-	1/2"Ø GALV. FITTING	UL LISTED
69	AS REQ'D	-	1/2"Ø U.L. FLEXIBLE CONDUIT	-
70	AS REQ'D	FSR000002	THREADED ROD, 3/8"-16	STAINLESS STEEL
71	AS REQ'D	-	RIV NUTS 3/8"-16	-
72	AS REQ'D	-	1/4"-20 ALUM. STUD, MALE	W/ HEX NUT & LOCK WASHER
73	AS REQ'D	FSN000010	NUT, HEX W/ LOCK WASHER	3/8"-16, ZINC
75	AS REQ'D	-	1/4"-20 HEX HEAD BOLT W/	HEX NUT & LOCK WASHER, GRADE 307, ZINC
76	AS REQ'D	FSR000011	RIVET, POP ALUMINUM	#44
77	AS REQ'D	-	3/8"Ø S.S. ANCHOR BOLT	(TO BE DETERMINED BY WALL TYPE & CONDITION)
78	AS REQ'D	FSS000004	#8 X 3/4" SCREW, PHILLIPS PAN	TYPE "A" ZINC (PAINT HEAD TO MATCH TRIM CAP)
79	AS REQ'D	FSS000028	SCREW, HEX WASHER TEK	#8 X 1/2", UNSLOTTED, ZINC
80	AS REQ'D	-	FORMED POWER SUPPLY BOX	GALVANIZED STEEL, 7" X 7" X 18" w/ LOUVERS
81	AS REQ'D	-	7/8"Ø PLASTIC BUSHING	HEYCO #2124, UL LISTED
82	AS REQ'D	ELB030482	SWITCH 20A-RAIN TIGHT	30482, MULBERRY
83	AS REQ'D	-	1/2"Ø SEALTITE FITTING	UL LISTED
84	AS REQ'D	-	1/2"Ø SEALTITE CONDUIT	UL LISTED
86	AS REQ'D	-	STUD FOR GROUNDING	ELECTRICAL BONDING
87	AS REQ'D	-	INTERMATIC PHOTO CONTROL,	120V, 50/60 HZ, 15 AMPS, UL LISTED (PART#K4021C)
88	AS REQ'D	-	5/16" DIA. DRAIN HOLE	W/ LIGHT BAFFLE
90	-	-	UNION, U.L. AND ELECTRICAL	LABEL LOCATION
95	AS REQ'D	-	CLEAR SILICONE CAULK	APPLY TO ALL WALL PENETRATION
96	AS REQ'D	-	SILICONE ADHESIVE	

JOB #	APPROVED BY / DATE
REQUEST# 71561	ENGR. MGR.:
DRAWN: ABP/AM	OPR. MGR.:
DATE: 07/06/09	PROJ. MGR.:
SCALE: AS NOTED	SALES MGR.:
FILE: PNC0151A	SHEET # S1 of 3





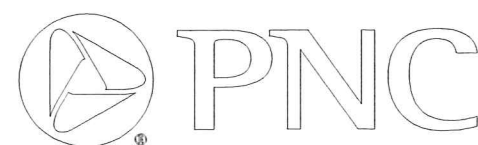
ENCON SERVICES, INC.  
AARON BIEDENBACH  
2272 JAUDON ROAD  
DOVER, FL 33527  
813-655-3373  
FLPE #52949, FLEB #9394

**icon**  
Identity Solutions

1418 ELMHURST RD.  
ELK GROVE VILLAGE  
ILLINOIS 60007

**ENGINEERING DRAWING**

PROJECT:

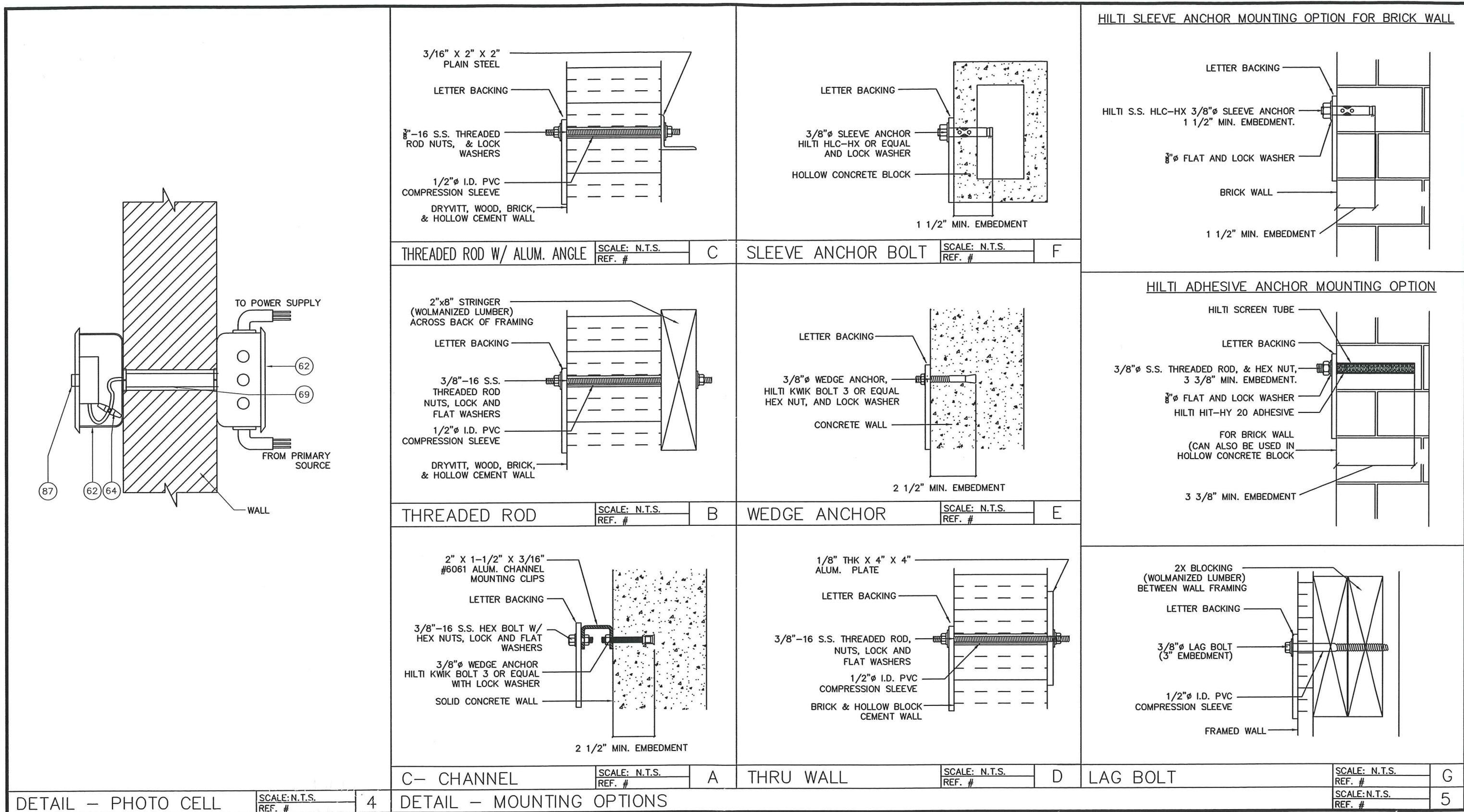


LOCATION: #3  
4560 LYONS RD.  
COCONUT CREEK, FLORIDA

TITLE: 18" LED ILL. CHANNEL LETTERSET W/ LOGO (REMOTE)

JOB #	APPROVED BY / DATE
REQUEST# 71561	ENGR. MGR.:
DRAWN: ABP/AM	OPR. MGR.:
DATE: 07/06/09	PROJ. MGR.:
SCALE: AS NOTED	SALES MGR.:
FILE: PNC0151A	SHEET # S2 of 3

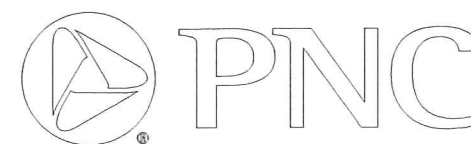




ENCON SERVICES, INC.  
AARON BIEDENBACH  
2272 JAUDON ROAD  
DOVER, FL 33527  
813-655-3373  
FLPE #52949, FLEB #9394

**icon**  
Identity Solutions  
1418 ELMHURST RD.  
ELK GROVE VILLAGE  
ILLINOIS 60007  
**ENGINEERING DRAWING**

PROJECT:



LOCATION: #3  
4560 LYONS RD.  
COCONUT CREEK, FLORIDA

TITLE: 18" LED ILL. CHANNEL LETTERSET W/ LOGO (REMOTE)

JOB #	APPROVED BY / DATE
REQUEST# 71561	ENGR. MGR.:
DRAWN: ABP/AM	OPR. MGR.:
DATE: 07/06/09	PROJ. MGR.:
SCALE: AS NOTED	SALES MGR.:
FILE: PNC0151A	SHEET # S3 of 3

# EnCon Services, Inc.

## Sign Design Calculations

### Job Description

PNC Bank 3

4560 Lyons Rd.

Coconut Creek, Florida

18" Letterset w Logo

Design per 2007 Florida Building Code, 2009 supplement, Section 16 Wind Load

ASCE 7-05

PREPARED BY: EnCon Services, Inc.

2272 Jaudon Road

Dover, FL 33527

813-655-3373

F 813-655-9814

Aaron Biedenbach, P.E.

FL PE #52949, FL EB 9394

OH PE 60756, OC #01893

KY PE #20281, P #2463

IN PE #PE 19600322

FL CBC #060535, QB #22527

### Design Specifications

Importance Factor	1
Kzt	1
Exposure Factor	C
Kd	1
Kz	0.98
V	140 (mph)
GCp-GCpi	1.28 Zone 4, H < 60 Feet
Wind Pressure	62.9 (psf)

### Sign Information Per Letter

Height	1.50	(ft)
Width	1.50	(ft)
Thickness	1.00	(ft)
Distance grade to top	30	(ft)

Wind Shear Force 94.41 (lb)

Weight of Sign 22.5 (lb)

**Total Shear Force = 97.06 (lb)**

**Total Tension Force = 141.62 (lb)**

	Required	Provided
Fastener size (Nominal)	3/8	3/8
Minimum number of fasteners per letter	3	3
Shear Force per fastener (lb)	32.4	280
Tension Force per fastener (lb)	47.2	352

Combination Tension and Shear ratio **0.25 < 1 O.K.**

THREADED ROD THROUGH WALL IS PREFERRED IN ALL INSTANCES. IF IT IS NOT POSSIBLE TO USE THREADED ROD, SEE CHART BELOW FOR APPROPRIATE ANCHOR SELECTION. SIZE AND NUMBER REQUIRED ARE NOTED IN THE CHART ABOVE.

WALL STRUCTURE	ANCHOR TYPE
WOOD BLOCKING	LAG BOLT (3" EMBEDMENT) THROUGH BLOCKING
EIFS OVER 5/8" PLYWOOD	LIBERTY TOGGLE BOLT OR THRU BOLT WITH SLEEVE
HOLLOW CONCRETE BLOCK, BRICK	SLEEVE ANCHOR (1-1/2" EMBEDMENT)
SOLID CONCRETE	WEDGE ANCHOR (2-1/2" EMBEDMENT)
CMU, SOLID CONCRETE, BRICK	HILTI HIT ROD W/HY-20 ADHESIVE (3 3/8" EMBEDMENT)

ALL ANCHORS SHALL BE CHOSEN AND PLACED IN ACCORDANCE WITH MANUFACTURERS INSTALLATION INSTRUCTIONS