



# Proposed Updated Conditions



Night Conditions



Proposed Updated Conditions



SIGN DESIGNS

12801 Commodity Place

Tampa, Florida 33626 Phone: 813-818-7100 Fax: 813-749-2311 www.creativesigndesigns.com

-206398

PROJECT:

SEVEN-41 WINTER PARK

741 Clay Street Winter Park, FL.

CRM / Quote:

Account Manager:

Designer: DRB

Revision:

Project Manager / Project Leader

02 08/29/2021 customer up-dates DRB

03 08/31/2021 customer up-dates DRB
04 10/10/2021 customer up-dates DRB
05 06/02/23 Removed options - AW
06 6/26/2023 PROD / customer up-dates DRF
07 07:24:2023 QC REVIEW - LOUGH

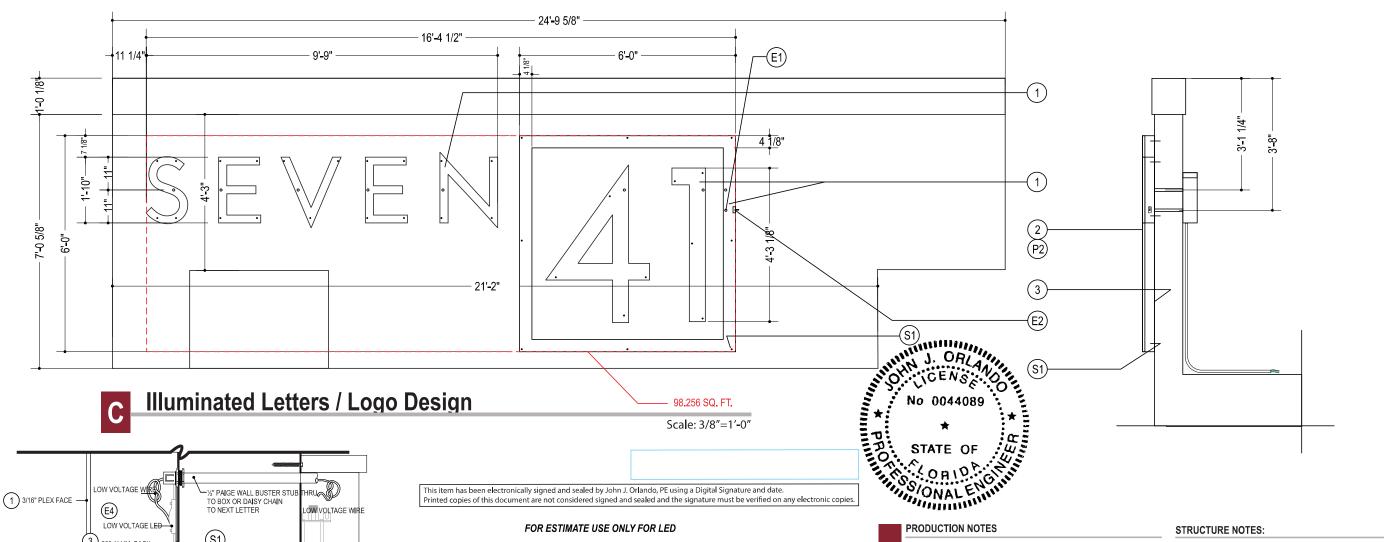
08-15-2022

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Sheet:

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E12



FOR ESTIMATE USE ONLY FOR LED



# SECTION DETAIL ILLUMINATED CHANNEL LETTERS REMOTE POWER SOURCE SCALE: NTS

- MOUNTING PER.

REMOTE MOUNTED ·

TRANSFORMER BOX

HOUSING POWER SUPPLY

SUPPLIED TO SITE BY BUYER

INTERIOR WALL

WALL REQUIREMENTS

3 ).063 ALUM, BACK

POP RIVET OR STAPLED TO RETURN

E2) DISCONNECT -

1/4" WEEP HOLES

1" JEWELITE ® TRIM -

W/#8 SCREWS
NOTE: MINIMUM #8 SHEET METAL SCREWS

SECURING TRIM TO LTR. BODY
MAXIMUM SPACING SHALL NOT EXCEED 18"

NO FEWER THAN (4) SCREWS PER FACE

(2) TWO PER LETTER (SHOWN W/ LIGHT CAP)

040 ALUM, RETURN POP RIVET OR STAPLED TO BACK (CAULKED)

	(Minimum) Each Letter
Wall Material	ers Shall Be Spaced Evenly *** Anchor Type
CONCRETE (3KSI) or HOLLOW MASONRY	1/4" TAPCONS OR EQUIVALENT WITH MIN 1.25" OF EMBEDMENT
	1/4" EXPANSION ANCHORS WITH MIN 2.5" OF EMBEDMENT
1/2" PLYWOOD (NO ACCESS BEHIND)	1/4" TOGGLE BOLTS
	1/4" WOOD SCREWS OR TAPCONS, FULL EMBEDMENT
METAL STUDS OR METAL PANELS	#14 METAL SCREWS TO MIN 18ga STEEL OR 0.090" ALUMINUM
HOLLOW WALL (BLOCKING	1/4" THRUBOLTS
BEHIND)	1/4" X 5" LAG5

## FOR ESTIMATE USE ONLY FOR LED

Date	Module	Power Supply		Total Dimensions	Double Sided
Friday, July 21, 2023	Phoenix PF-3120 (1.5 per ft)	HanleyLED 60w 12v		22.08" x 85.13" x 5"	No
Total Watts 49 <b>.</b> 2	Total Module Count 41	Total Power Supplies	Modules Per Letter [S]-8;[E]-9;[V]-	6; [E]-9; [N]-9;	
Date	Module	Power Supply	Module Pitch	Total Dimensions	Doub <b>l</b> e Sided
Friday, July 21, 2023	Phoenix PF-3120 (1.5 per ft)	HanleyLED 60w 12v	7.22"	51.19" x 41.57" x 5"	No
Total Watts 25.2	Total Module Count 21	Total Power Supplies	Modules Per Lette [ 4 ] - 14; [ 1 ] - 7;	r	
Date	Module	Power Supply	Module Pitch	Total Dimensions	Doub <b>l</b> e Sided
Friday, July 21, 2023	Phoenix PF-3120 (1,5 per ft)	HanleyLED 60w 12v		60.46" x 35.86" x 5"	No
Total Watts 38.4	Total Module Count 32	Total Power Supplies	Modules Per Lette		

- 1) FACE 3/16" #7328 WHITE HELD W/ WHITE JEWELITE TRIM CAP
- 2) RETURNS TO BE .040 WHITE ON WHITE ALUMINUM WITH CLINCHED BEND
- 3) BACKS TO BE .063 WHITE ON WHITE ALUMINUM

### **PAINT NOTES:**

ALL PAINTED SURFACES TO HAVE SATIN PAINT P2) TO MATCH MP 202SP WHITE



### **GENERAL NOTES:**

- 1. CONTRACTOR SHALL VERIFY ALL SITE CONDITIONS AND
- 2. EXISTING WALL CONSTRUCTION TYPE MUST BE DETERMINED AT THE ACTUAL PROPOSED LOCATION OF THE LETTERS BY THE CONTRACTOR.
- 3. CONTRACTOR SHALL VERIFY THAT FASTENERS CHOSEN TOTAL AMP LOAD: 2.7 AMPS ARE SUITABLE WITH WALL CONDITION TO WITHSTAND THE REQUIRED 120V CIRCUITS: (1) 20 AMP STATED PULLOUT FORCE.
- 4. THE BUILDING ENGINEER SHALL INCLUDE THE LOADS APPLIED BY THE SIGN STRUCTURE IN THE DESIGN OF THE WALL SYSTEM.
- 5. INSTALLATION SHALL CONFORM TO THE NATIONAL ELECTRICAL CODE AND OTHER APPLICABLE CODES.

#### STRUCTURE NOTES:

S1) LETTERS TO WALL (PLYWOOD) COORDINATE WITH ROOFER TO SEAL MEMBRANE

#### **ELECTRICAL NOTES:**

E1) 120 VOLT 20 AMP PRIMARY ELECTRIC CIRCUIT SUPPLIED TO SITE BY BUYER

E2) ELECTRICAL DISCONNECT SWITCH E3) LED POWER SUPPLY E4) WHITE LED

E5) ELECTRIC STUB THRU

### L.E.D. NOTES:

120 VOLT / 20 AMP			
LED TYPE: PHOENIX PHOENIX PF-3120	COLOR: WHITE 7000K		
LED MODULES: 94	SECONDARY		
LED POWER SOURCE TYPE: HANLEYLED 60W 12V	VOLTS	WATTS	
	12	60	
POWER SUPPLY QTY.: 3	AMP INPUT: .90 EA		



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SR

Designer: Date

08-15-2022 DRB Revision:

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06 6/26/2023 PROD / customer up-dates DRI 07 07 24 2023 OC REVIEW - LOUGH

MET E212525



ALL ELECTRICAL COMPONENTS WILL BE UL 48 ELEC. SIGNS AND APPROVED AS PER 2014 & 2017 NEC 600.3 AND MARKET AS PER NEC 600 4. THE INSTALLATION OF THE WIRING WILL BE DONE AS PER EBC 4505 4 AND DESIGNATED TO JL 48, ALL SIGNS ARE TO BE GROUNDED AND BONDED PER NEC 600.7 AND 250.122. AN ELECTRICAL DISCONNECT WILL BE PROVIDED PER

ALL WIRING INSIDE LETTERING WILL BE LOW VOLTAGE

ALL WENNO INSIDE LETTERING WILL BE LOW YOLTAGE UNDER UL SIGN ACCESSORIES MANUL (EAM) E242084, LISTED AND APPROVED AS PER 2017 NEC 600.3 AND MARKED PER NEC 600.4. PRIMARY ELECTRICAL SOURCE TO BE SUPPLIED BY CUSTOMER WITHIN SIX (S) FEET OF SIGN. ALL PRIMARY WIRNO WILL BE 27 THINK DRAN HOLES PER NEC 600-4(G) (1) DEDICATED 20 AMP CIRCUIT PER SIGN PER NEC 600.5

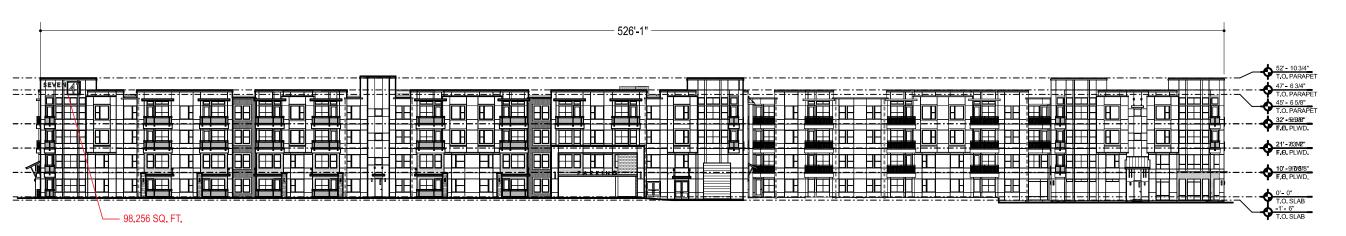




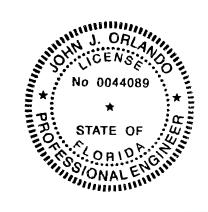
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This item has been electronically signed and sealed by John J. Orlando, PE using a Digital Signature and date.

Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

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2017 Edition E212525
ALL ELECTRICAL COMPONENTS WILL BE UL 46 ELEC, SIGNS AND APPROVED AS PER 2014 8 2017 NEC 500,3 AND MARKED AS PER NEC 500,4. THE INSTALLATION OF THE WIRNING WILL BE DONEA SER FER 60.504, AND DESIGNATION TO UL 48, ALL SIGNS ARE TO BE GROUNDED AND DEVONED PER NEC 500,7 AND 250, 122.
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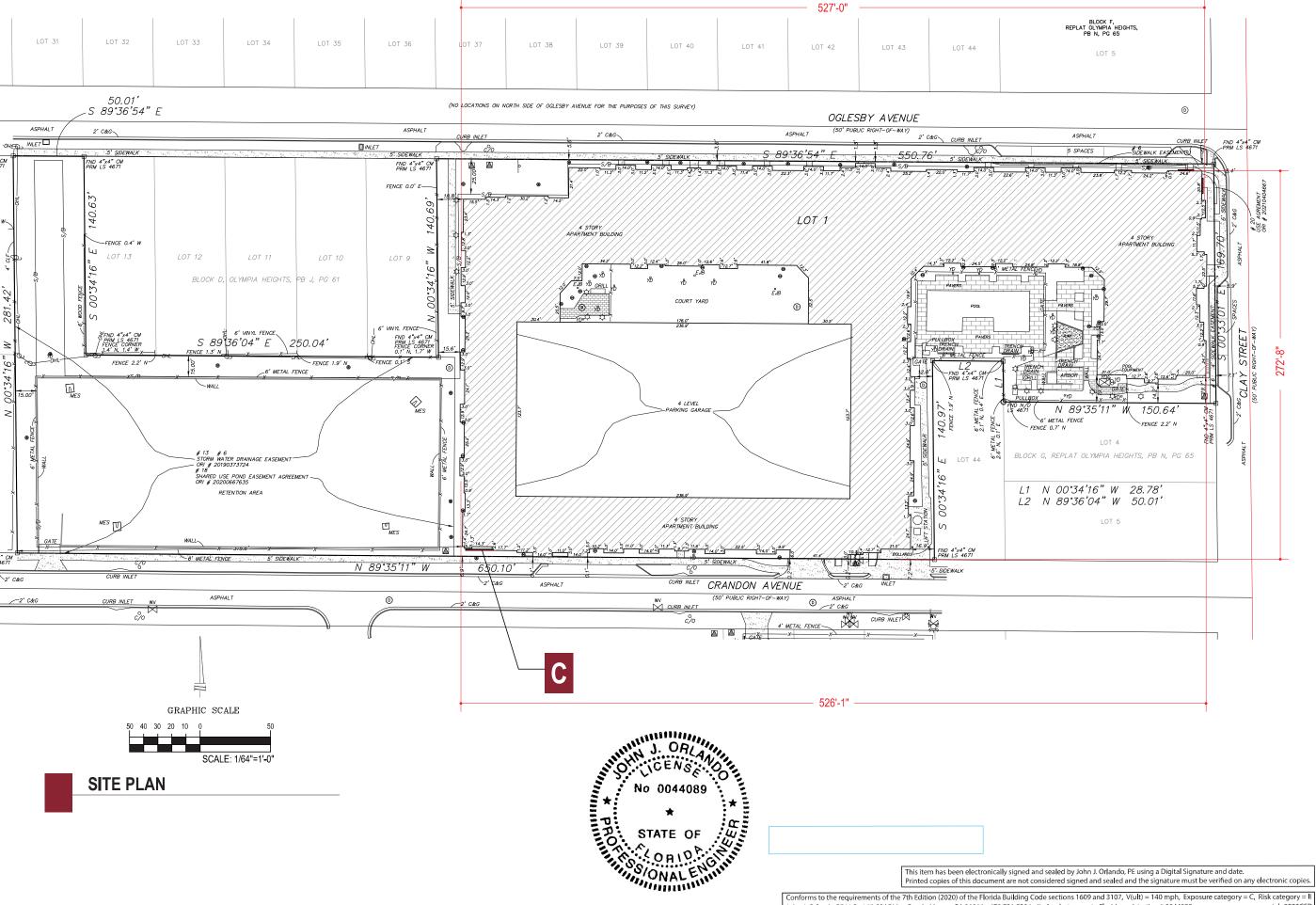


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Conforms to the requirements of the 7th Edition (2020) of the Florida Building Code sections 1609 and 3107, V(ult) = 140 mph, Exposure category = C, Risk category = II John J. Orlando PE LLC - 165 Old Ridge Road - Macon, GA 31211 - 478 731 5394 - jjorlando@cox.net - Florida registration # 0044089 job 8923CSD





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CUSTOMER WITHIN SIX (S) FEET OF SIGN, ALL PRIMARY
WIRING WILL BE #12 THWN, DRAIN HOLES PER NEC 600-8(G)
(1) DEDICATED 20 AMP CIRCUIT PER SIGN PER NEC 600.5





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SEVEN-41 (south) Job name 8923CSD .lob# Sign company: Creative Sign Designs

Installation location: 741 Clay St, Winter Park, FL 32789

Section 3107 and 1609 of Florida Building Code 2020 and Chapter 30 ASCE 7-16 applies. Application of wind pressures using the alternative all heights method for components and cladding

flush mounted LED channel letters and logo Type of structure: Occupancy Category: Wind velocity (3 sec gust), FBC 2020, section 1609.3: 140 mph Wind pressure (qz) 50.2 psf Net Pressure Coeficient (Cnet) from Figure 30.7-2 Components and cladding not in areas of discontinuity - walls and parapets -1.09 Wind Pressure -54.7 psf

Wind load applied between wall and structure, pulling structure away from wall Load carried by tension in fasteners connecting structure to wall

- maximum height of structure to be attached	6.00	ft
- maximum width of structure to be attached	0.34	ft
- effective projected area factor	1.00	
- projected area of each component to be attached	2.1	ft^2
- wind load	-113	lbs
- allowable tension load per fastener to	150	lbs
- even number of fasteners minimum of 2 =	-2	
- number of fasteners practically required due to structure shape	3	
- weight of structure is approximately	3	lbs
- allowable shear load per fastener to	100	lbs
- average shear load per fastener =	1.0	lbs

to be determined Mounting surface construction is: Use methods: 1 through 7

Method 1 - 1/4" A36 Threaded rod or GR2 through bolts into a blocking member.

- safe working tension load = 160 pounds - safe working shear load = 200 pounds

http://www.derose.net/steve/resources/engtables/bolts.html

Method 2 - Lag bolts into framing members.

-use 1/4" galvanized lag bolts with at least 3" of embedment into framing members.

- allowable pull out load = 225 pounds

http://www.siegefiles.outlands.org/Construction%20Plans/Tables,%20References%20and%20Best%20Practices/Fasteners/Laq%20Screw%20Withdrawal%;

Method 3 - 1/4-20 SS Toggler zip toggle anchors (BBS)

- allowable pull out load = 125 lbs
- allowable shear out load = 100 lbs

https://toggler.com/pdfs/SNAPTOGGLE%C2%AE-Heavy-Duty-Toggle-Bolts.pdf

NOTE: . Design assumes that fasteners are installed according to manufacturer's

instructions, using correct size drill,

Method 4 - Hilti 1/4" Kwik Bolt with 2 1/2" embedment

allowable loads in grout filled cmu

- allowable tension load = 150 lbs
- allowable shear load = 380 lbs

NOTE: . Design assumes that fasteners are installed according to manufacturer's

instructions, using correct size drill.

https://www.hilti.com/medias/sys\_master/documents/h06/9176315265054/Technical-information-ASSET-DOC-LOC-3009635.pdf

Method 5 - 1/4" Tapcon

- depth of embedment in hollow concrete bock = 1 1/4"
- allowable tension strength = 250 lbs
- allowable shear strength = 620 lbs

 $\underline{\text{https://www.itwredhead.com/portals/0/fmproductcatalog/documents/products/37/tapcontechnical data.pdf} \\$ 

Method 6 - #14 self tapping sheet metal screws to min 18ga steel or 0.090" aluminum

http://www.itwbuildex.com/pdf/teks\_select\_datasheet.pdf

- allowable tension (pull out) load = 400 pounds

Method 7 - 1/4" wood screws in 1/2" plywood

https://www.zillarac.com/Portals/0/Documents/PDF/Screw%20Pull-out.pdf

- allowable tension load = 150 pounds

References

ASCF 7-16

The 7th Edition (2020) of the Florida Building Code sheet 5 of 5

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