A-

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





EXISTING CONDITIONS:





John Orlando Digitally signed by John Orlando Date: 2022.04.13 15:58:48 -04'00'

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Conforms to the requirements of the 7th Edition (2020) of the Florida Building Code sections 1609 and 3107, V(ult) = 120 mph, Exposure category = C, Risk category = John J. Orlando PE LLC - 165 Old Ridge Road - Macon, GA 31211 - 478 731 5394 - jjorlando@cox.net - Florida registration # 0044089 job 5222SS sheet 1 of



T Mobile

ADDRESS

313 NW COMMONS LOOP SUITE 119-C LAKE CITY, FL 32055

Rev#	Req#	Date/Artist	Description	Rev#	Req#	Date/Artist	Description
Original	371064	03/01/22 Z - AP					
Rev 1	371546	03/04/22 Z - SA	Revised Tenant Panel Artwork				
Rev 2	373410	03/16/22 Z - RU	Revised Channel letters size from "TMO-24W-1B" to				
			"TMO-29W-1B"				

44.3 Square feet

Disconnect switch

3'-4-3/4"

(can be on either side)

10V circuit.12GA wire.

Time clock or photocell

for controlling the circuit.

20 AMP dedicated 1

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John Orlando Digitally signed by John Orlando Date: 2022.04.13 15:59:16 -04'00'

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Sign Code:

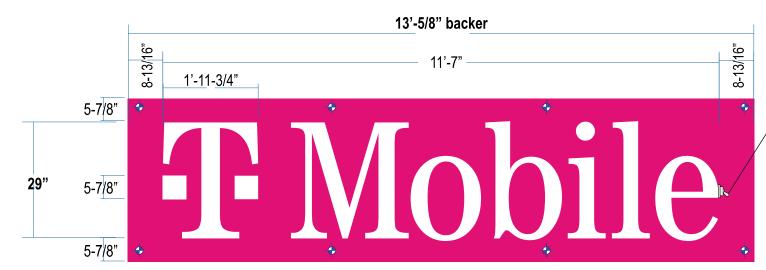
Aggregate for all signage: 1.50 sf per LF of lot frontage

 $30 \times 1.5 = 45 \text{ sq ft}$

Proposed Sign:

 $3'-4-3/4" \times 13'-5/8" = 44.3 \text{ SF}$

Scale: 1/2"=1'-0"



1-1/2 digits sides / 1 digit top & bottom

COLOR PALETTE

Matthews Magenta MP86055 R155445 N Semi-glo V1.0 over MP55898 White Basecoat

#2447 White Autoglas or Equal

3/16" thick #2447 White autoglas or equal FACES:

1" White jewelite trimcap TRIM CAP:

.040 alum. 3" deep pre-finished White **RETURNS:**

BACKS: .063 alum. - pre-finished alum White

LED: Principal (≥20") SF Mini 6500K; (<20") Qwik Mod 3 6500K White LED's;

Remote power supplies

BACKER 1" deep fabricated alum. backer cabinet w/ internal angle stringers: PANEL:

.063 alum. skin painted TMO Magenta and White base coat specified

(per color palette)

INSTALL: Mount in eight (8) evenly spaced places per Mounting Detail.

Precise fastener locations ϕ by installers.

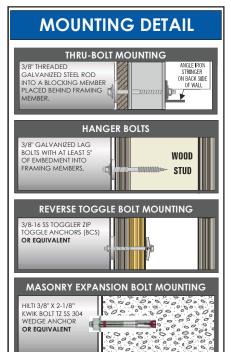
Signband Wall material is BRICK **WALL TYPE:**

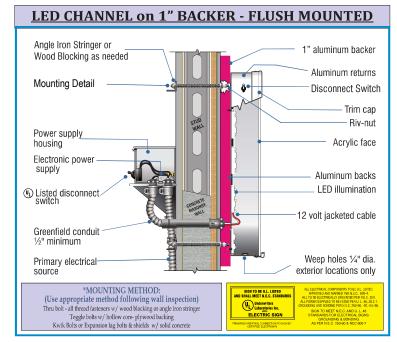
UL label location - one to be visible from ground, others to be placed JOB NOTE:

on top of letters and one on power supply

QUANTITY: (1) One Channel letters set required for Front elevation.









T Mobile

313 NW COMMONS LOOP SUITE 119-C LAKE CITY, FL 32055

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Job name T Mobile
Job# 5222SS
Sign company: Sign Source

Installation location: 313 NW Commons Loop, Suite 119-C, Lake City, FL 32055

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

Type of structure:	channel letters on a backer panel					
Occupancy Category:		II				
Wind velocity (3 sec gust), FBC 2020, section 1609.3:						
Wind pressure (qz)		36.9	psf			
Net Pressure Coeficient (Cnet) from Figure 30.7-2						
	Components and cladding not in areas of discontinuity - walls and parapets Wind Pressure	-1.09 -40.2	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	3.40	ft
- maximum width of structure to be attached	13.05	ft
- effective projected area factor	1.00	
- projected area of each component to be attached	44.3	ft^2
- wind load	-1783	lbs
- allowable tension load per fastener to	250	lbs
- even number of fasteners minimum of 2 =	-8	
- number of fasteners practically required due to structure shape	8	
- weight of structure is approximately	177	lbs
- allowable shear load per fastener to	125	lbs
- average shear load per fastener =	22.2	lbs

Mounting surface construction is: to be determined Use methods: 1 through 4

Method 1 - 3/8-16 SS Toggler zip toggle anchors (BCS)

- allowable pull out load = 250 lbs
- allowable shear out load = 125 lbs

 $\underline{https://toggler.com/pdfs/SNAPTOGGLE\%C2\%AE-Heavy-Duty-Toggle-Bolts.pdf}$

NOTE: . Design assumes that fasteners are installed according to manufacturer's instructions, using correct size drill.

Method 2 - Lag bolts into framing members.

- -use 3/8" galvanized lag bolts with at least 5" of embedment into framing members.
- allowable pull out load = 436 pounds - allowable tension load = 680 pounds

Method 3 - 3/8-16 Gr5 through bolts

http://www.tatoolsonline.com/uploads/266/safety_data_bolt_strengths_identification.pdf clamp load = 4950 lbs

Method 4 - Hilti 3/8" x 2-1/8" KWIK BOLT TZ2 SS304 WEDGE ANCHOR

- ultimate tension load = 1520 lbs
- allowable tension load = 760 lbs
- ultimate shear load = 1685 lbs
- allowable shear load = 842 lbs

 $\ensuremath{\mathsf{NOTE}}\xspace$. Design assumes that fasteners are installed according to manufacturer's

instructions, using correct size drill.

https://www.hilti.com/medias/sys_master/documents/hac/9233455513630/Technical-information-ASSET-DOC-LOC-154342/

References:

ASCE 7-16

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

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