


MARK DISOSWAY, PE  
163 SW Midtown Pl, Ste 103  
Lake City, Florida 32025  
386-754-5419  
FLPE53915

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5/13/2022

This seal for structural engineering per  
scope of work (Fasteners only)

**SCOPE OF WORK**  
**ENGINEERING: Calculation of minimum  
fasteners. ONLY.** (See equation)

**This seal IS NOT:** architecture, electric, or  
structure of sign and wall.

By using this engineering sign installer,  
manufacturer, and owner agree to:  
1. Select fastener from table based on wall  
structure. 2. Install fasteners per fastener  
manufacturer instructions in locations required  
by sign manufacturer; this may mean more  
fasteners are required than shown in table. 3.  
Make sure sign and wall meets building code,  
sign code, and UL. Verify stated wind (speed,  
risk, exp. topo), sign (size, area, location on  
wall, max weight), wall (materials and  
construction).

PASTED IMAGES, DETAILS, DRAWINGS, AND  
NOTES ON THIS SHEET ARE NOT  
ENGINEERED OR REVIEWED.

They were pasted in at customer's request  
to help relate fastener engineering to the job.

**Florida Sign  
Company**


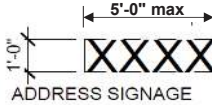

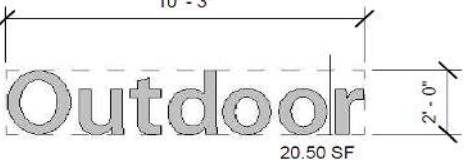

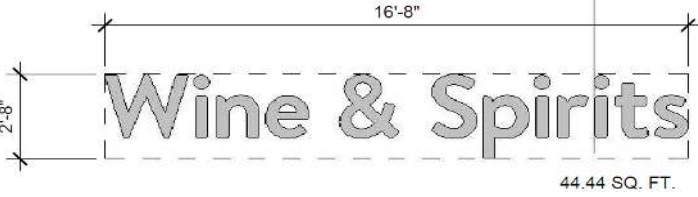


**Job # 220583**

**WALL SIGN**  
Flat on wall max 12" thick.

**Walmart #0767**  
2767 W US Hwy 90  
Lake City, FL

UNO valid for one sign each type at this location.



9 sqft Stud (Letters)	5 sqft Stud (Letters)	95 sqft Stud (Letters)	21 sqft Stud (Letters)	45 sqft Stud (Letters)	28 ft <sup>2</sup> Stud (Letters)	<b>SIGN INSTALLER INSTRUCTIONS</b>  1. Verify (ft <sup>2</sup> ) (flush, raceway, or pin) (solid area or letters) 2. Select fastener for wall structure. 3. Evenly space fasteners over whole sign area.  USE MORE FASTENERS IF THE SIGN NEEDS IT! ONLY ATTACH TO STRUCTURAL WALL MATERIAL (UNO). Shape and strength of sign may require more fasteners. Example: "I" may need 2 fasteners, "J" - 3, "H" - 4, "W" - 5, and 1/8" thick plastic may need more fasteners to avoid bending. Follow sign manufacturer's instructions and code requirements for placement of fasteners. At least put one in each corner top and bottom. Follow fastener manufacturer's instructions and code requirements for installation.	<b>signengineering@gmail.com</b>		<b>MARK DISOSWAY, PE</b> 163 SW Midtown Pl, Ste 103 Lake City, Florida 32025 386-754-5419	
Vision	Address #	Home & Pharmacy	Outdoor	Wine & Spirits	Market	<b>CALCULATION: Minimum Number of Fasteners Evenly Spaced Over Whole Sign</b> ( Fasteners = Wind Force on Whole Sign Area / Fastener Allowable Tension )	<b>Florida, FBC 7th Ed (2020), Sect 1609</b> <b>wind</b>		<b>ref ASCE 7-16</b>	
						II	Risk Category	II, Normal hazard to human life; III, Substantial hazard to human life; IV, Essential, emergency, critical		
						120	Wind Speed	Basic Wind Speed, Ultimate, mph, from ASCE 7-16, Fig 26.5-1A, Risk II; or Fig.26.5-1B, Risk III & IV		
						C	Exposure	Wind Exposure; C, House size obstructions for > 600 ft; D, no obstructions > 5000'		
						30	Sign Height	Sign Height Above Ground, ft, H; Sign cannot be higher than top of wall or 60'. For multiple signs use worst case.		
See Table	Sign Area	Gross Sign Area, ft <sup>2</sup> , means the overall area surrounding and including all sign letters and logos.		<b>WIND LOAD CALC: ASCE 7-16, Section 29.4.2, Solid Attached Signs</b> Components & Cladding wind pressure on solid sign attached flat against wall or parallel to wall, < 3' from surface and > 3' from edge, equals wall wind pressure from ASCE 7-16, Section 30.4. See Table Wind Force on Sign; F = P <sub>ASD</sub> * Net Sign Area						
						-26 psf	Wind Pressure; P <sub>ASD</sub> = P <sub>ult</sub> * 0.6	per ASCE 7-16 section 2.4.1		
						-44 psf	Wind Pressure; P <sub>ult</sub> = q <sub>ult</sub> * GC <sub>p</sub>	C&C, ASCE 7-16, Eq 30.3-1		
						31 psf	Velocity Pressure; q <sub>ult</sub> = 0.00256 * K <sub>z</sub> * K <sub>zt</sub> * K <sub>d</sub> * V <sub>ult</sub> <sup>2</sup>	ASCE 7-16, Eq 26.10-1		
						0.98	Veloc Pres Expos Coeff; K <sub>z</sub> = 2.01 * (H/900) * (2/9.5) Exp D;	ASCE 7-16, Table 26.10-1		
						-1.4	Ext. Pressure Coeff; GC <sub>p</sub> = -1.4 (<60ft) -1.8 (>60ft) Zone 5, 1 ft <sup>2</sup> area.	ASCE 7-16, Figure 30.3-1, 30.5-1		
						0.85	Wind Direction Factor; K <sub>d</sub> = .85 for attached signs.	ASCE 7-16, Table 26.6-1		
						0	Int. Pressure Coeff; GC <sub>p</sub> = 0, sign flat against wall.	ASCE 7-16, Sec 29.3.2		
						1.0	Topographic Factor; K <sub>zt</sub> = 1 for flat ground, no hill, ridge, or escarpment >15'; = 2 for corners or edges			
						5 psf	Sign Weight; must be less than 5 pounds per sq.ft. net area.			
I DON'T KNOW WHAT THIS WALL LOOKS LIKE OR HOW IT IS CONSTRUCTED BUT I ASSUMED THE SIGN IS LESS THAN 30' ABOVE GRADE, MOUNTED FLAT TO A NORMAL VERTICAL WALL, NOT A FASCIA OR PARAPET, AND NO CLOSER THAN 4' FROM ANY CORNER, ROOF, EAVE, CANOPY, SOFFIT, OR END OF WALL. SEE ARCHITECT'S OR SIGN INSTALLER'S ELEVATION DRAWINGS FOR WALL DETAILS.										
							<b>STUD MOUNT</b> 			
										
4	4	4	4	4	4	Min Fasteners				
228	122	1254	484	713	501	Wind Force				
3	5	48	17	27	22	Net Area sqft				
138	107	50	80	80	80	% Net Area				
4	5	36	31	85	38	ASCE 7-16				



3 sqft  
Stud  
(Letters)

10 sqft  
Stud  
(Letters)

25 sqft  
Stud  
(Letters)

5 ft²  
Stud  
(Letters)

4

5

11

8

4

4

11

27

18

6

4

11

27

18

6

Oil Change  
x2

Auto Care

Auto Care

Auto Care

Oil Change  
x2

Auto Care

Auto Care

Auto Care

Oil Change  
x2

Auto Care

Auto Care

Auto Care

Oil Change  
x2

Auto Care

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Auto Care

1. Verify (ft) (flush, raceway, or pin) (solid area or letters)

2. Select fastener for wall structure.

3. Evenly space fasteners over whole sign area.

USE MORE FASTENERS IF THE SIGN NEEDS IT ONLY ATTACH TO STRUCTURAL WALL MATERIAL (UNO). Shape and strength of sign may require more fasteners. Example: 1" may need 2 fasteners, 3" - 3, 1/2" - 4, 1/4" - 5, and 1/8" thick plastic may need more fasteners to avoid sagging. Follow sign manufacturer's instructions and code requirements for placement of fasteners. At least put one in each corner top and bottom. Follow fastener manufacturer's instructions and code requirements for installation.

CALCULATION: Minimum Number of Fasteners  
Evenly Spaced Over Whole Sign  
(Fasteners = Wind Force on Whole Sign Area / Fastener Allowable Tension)

Fastener

Wall Structure

Pull

Fastener Installation

3/16" pin-stud, nut, and washer thru 1/2" plywood sheathing or 20ga. metal building

60

3/16" pin-stud glued in wall, LIQUID NAILS FUZE-IT, LN-2000

25

IMPORTANT - Adhesives and toggles are strong but none have code approval for structural applications. Sign installer must test these connection strengths. Pull on fastener 2.5" Allowable tension. Use tripod, game scale, and hooks.

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2'-4"

Tire

2.33 SF

x4 SIGNS

6'-11"

Oil Change

9.19 SF

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12' - 4 1/2"

Auto Care

24.65 SF

10' - 10"

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1 2 3 4 5 6

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Florida, FBC 7th Ed (2020), Sect 1609  
wind  
Ref ASCE 7-16

II Risk Category  
120 Wind Speed  
C Exposure  
30 Sign Height  
See Table  
Sign Area

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Components & Cladding wind pressure on solid sign attached flat against wall or parallel to wall, < 3' from surface and > 3' from edge, equals wall wind pressure from ASCE 7-16, Section 30.4.  
See Table  
Wind Force on Sign: F = P<sub>ss</sub> \* Net Sign Area  
-26 psf  
Wind Pressure: P<sub>ss</sub> = P<sub>ss</sub> \* 0.6 per ASCE 7-16 section 2.4.1  
-44 psf  
Wind Pressure: P<sub>ss</sub> = P<sub>ss</sub> \* 0.6 per ASCE 7-16 section 2.4.1  
31 psf  
Velocity Pressure: V<sub>ss</sub> = 0.00256 K<sub>z</sub> K<sub>g</sub> K<sub>d</sub> V<sub>max</sub> ASCE 7-16, Eq 26.10-1  
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Veloc Pres Expo Coeff: K<sub>z</sub> = 2.01 \* (H/300)<sup>2/5</sup> Exp: ASCE 7-16, Table 26.10-1  
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Ext. Pressure Coeff: GC = -1.4 (-60ft) -1.8 (-60ft) Zone 5, 1 ft area ASCE 7-16, Figure 30.3-1, 30.5-1  
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Wind Direction Factor: K<sub>d</sub> = 0.85 for attached signs ASCE 7-16, Table 26.6-1  
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Int. Pressure Coeff: GC<sub>i</sub> = 0, sign flat against wall ASCE 7-16, Sec 29.3.2  
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Topographic Factor: K<sub>zt</sub> = 1 for flat ground, no hill, ridge, or escarpment > 15' = 2 for corners or edges  
5 psf  
Sign Weight: must be less than 5 pounds per sq. ft. net area.

II, Normal hazard to human life; III, Substantial hazard to human life; IV, Essential, emergency, critical  
Basic Wind Speed, Ultimate, mph, from ASCE 7-16, Fig 26.5-1A, Risk II; or Fig 26.5-1B, Risk III & IV  
Wind Exposure: C, House size obstructions for > 600 ft, D, no obstructions > 500'  
Sign Height Above Ground, ft, H, Sign cannot be higher than top of wall or 60'. For multiple signs use worst case.  
Gross Sign Area, ft², means the overall area surrounding and including all sign letters and logos.  
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Walmart #0767  
2767 W US Hwy 90  
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UNO valid for one sign each type at this location.

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UNIVERSITY OF FLORIDA  
STATE OF FLORIDA  
PROFESSIONAL ENGINEER  
NO. 53915  
EXPIRATION DATE 12/31/2025

signengineering@gmail.com

Florida, FBC 7th Ed (2020), Sect 1609  
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Ref ASCE 7-16

II Risk Category  
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2'-4"

Tire

2.33 SF

x4 SIGNS

6'-11"

Oil Change

9.19 SF

x2 SIGNS

12' - 4 1/2"

Auto Care

24.65 SF

10' - 10"

Auto Care

16.25 SF

2'-6"

1 2 3 4 5 6

6.25 SF  
TYP

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2'-4"

Tire

2.33 SF

x4 SIGNS

6'-11"

Oil Change

9.19 SF

x2 SIGNS

12' - 4 1/2"

Auto Care

24.65 SF

10' - 10"

Auto Care

16.25 SF

2'-6"

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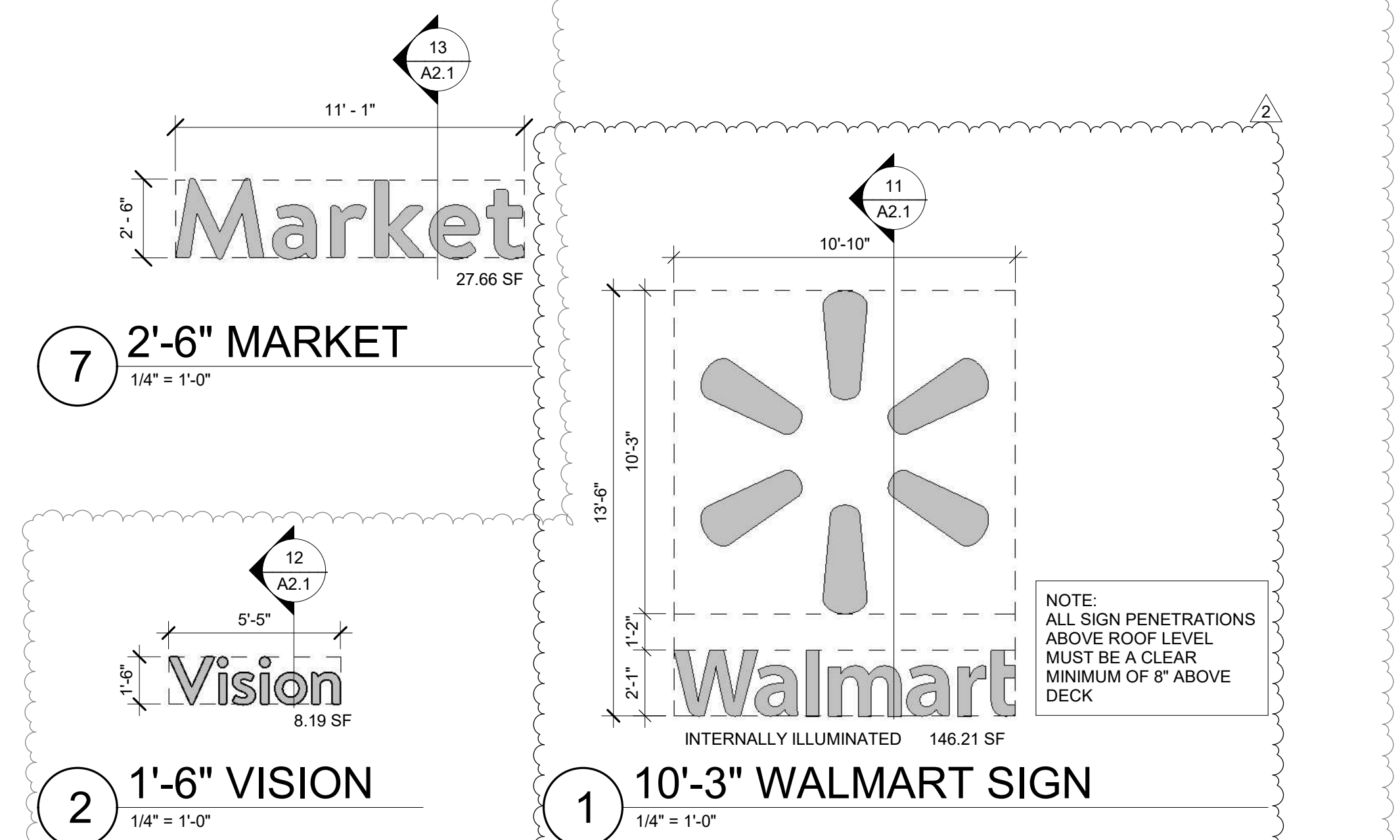
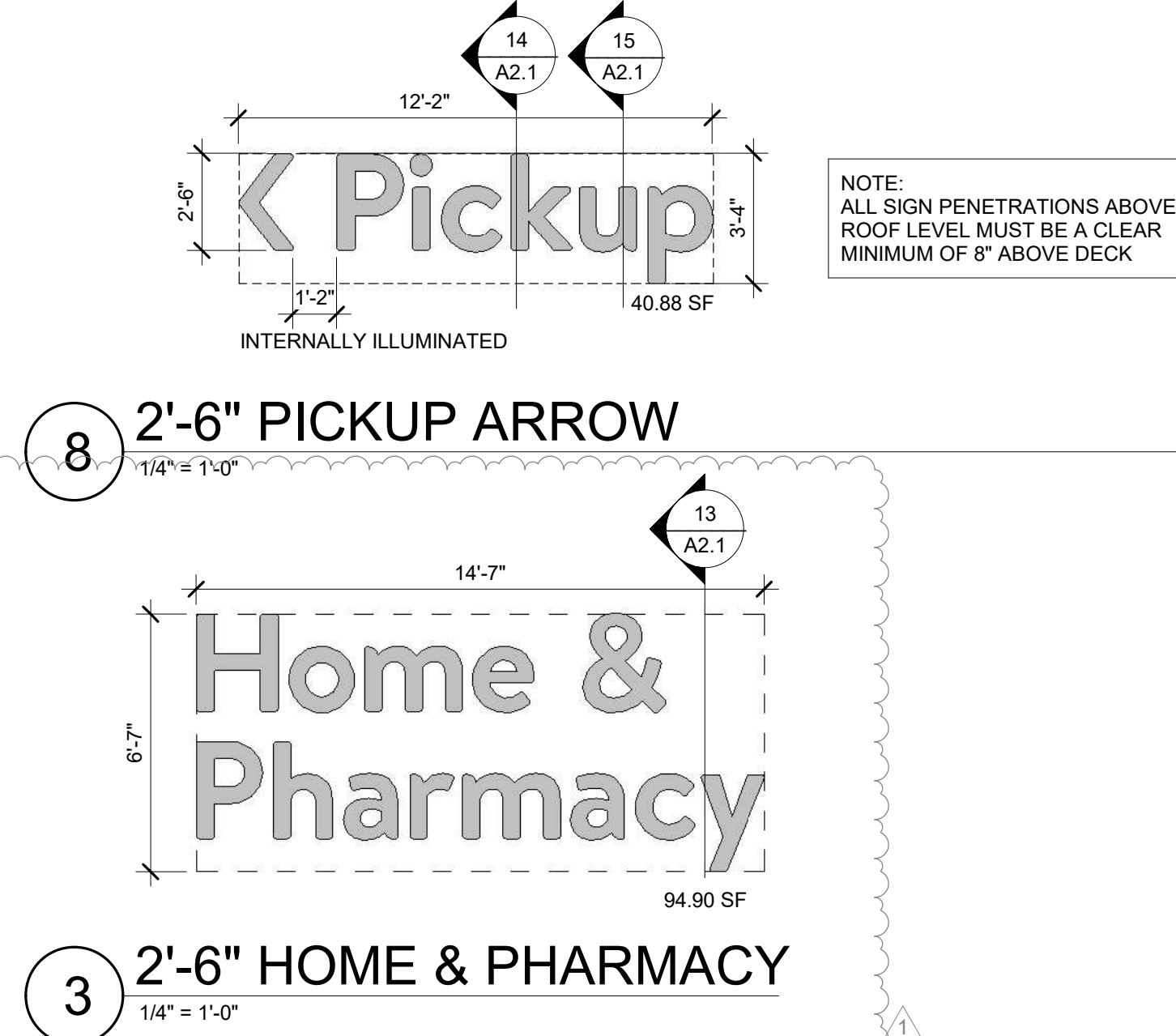
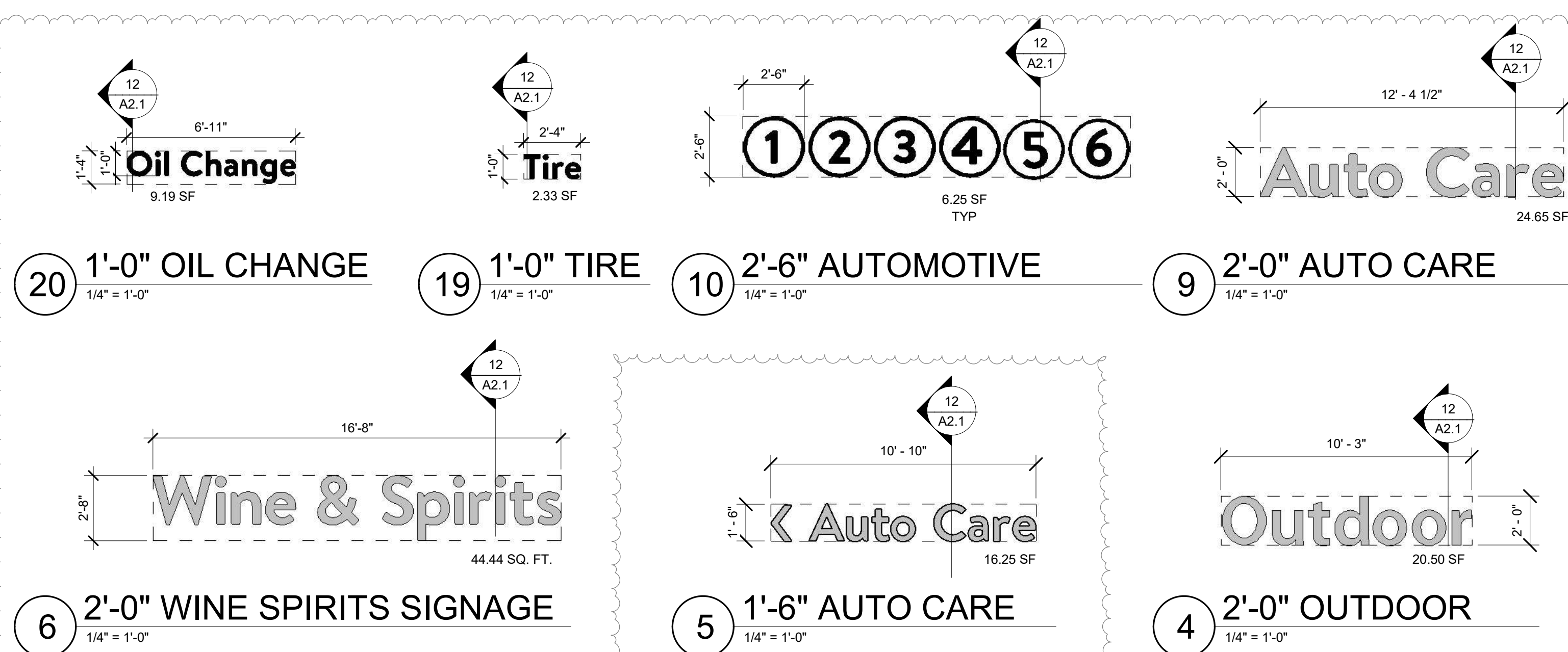
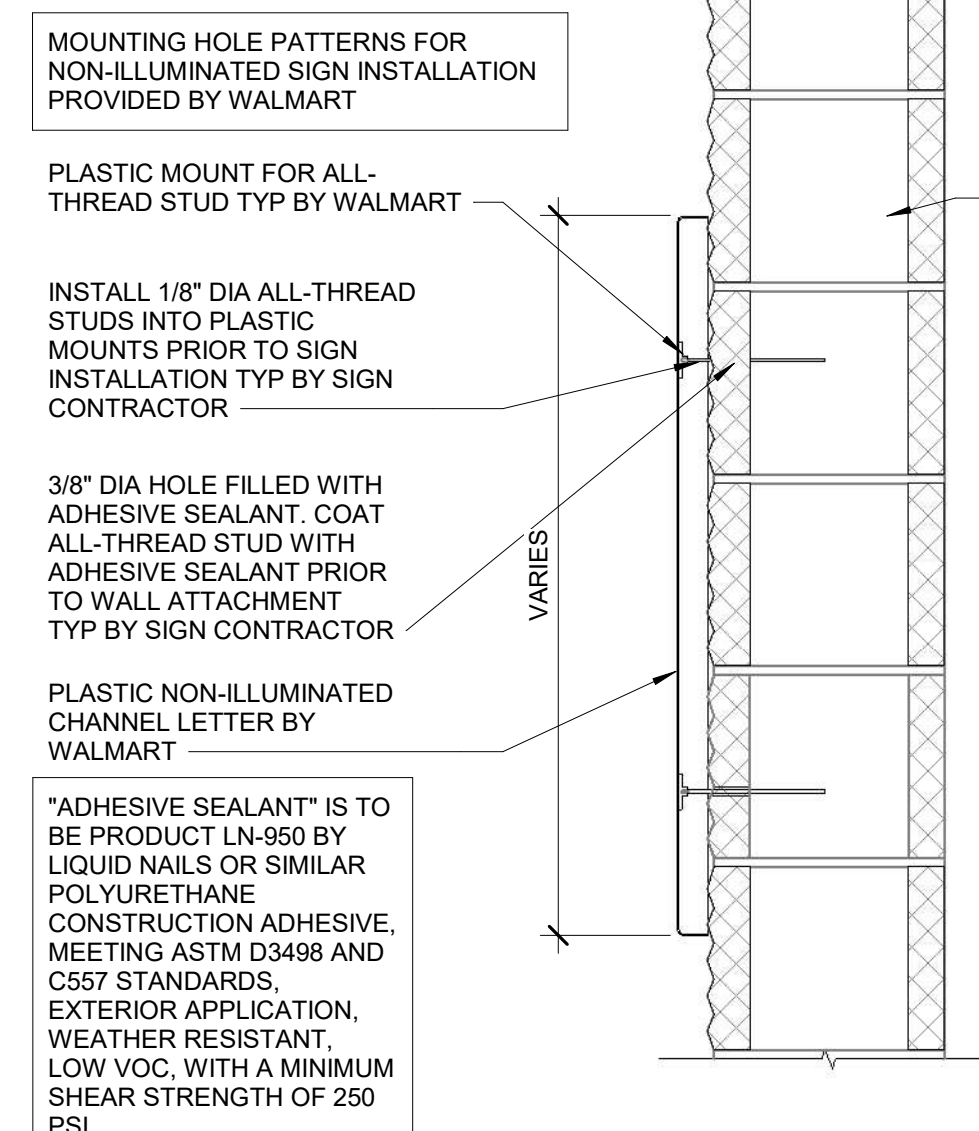
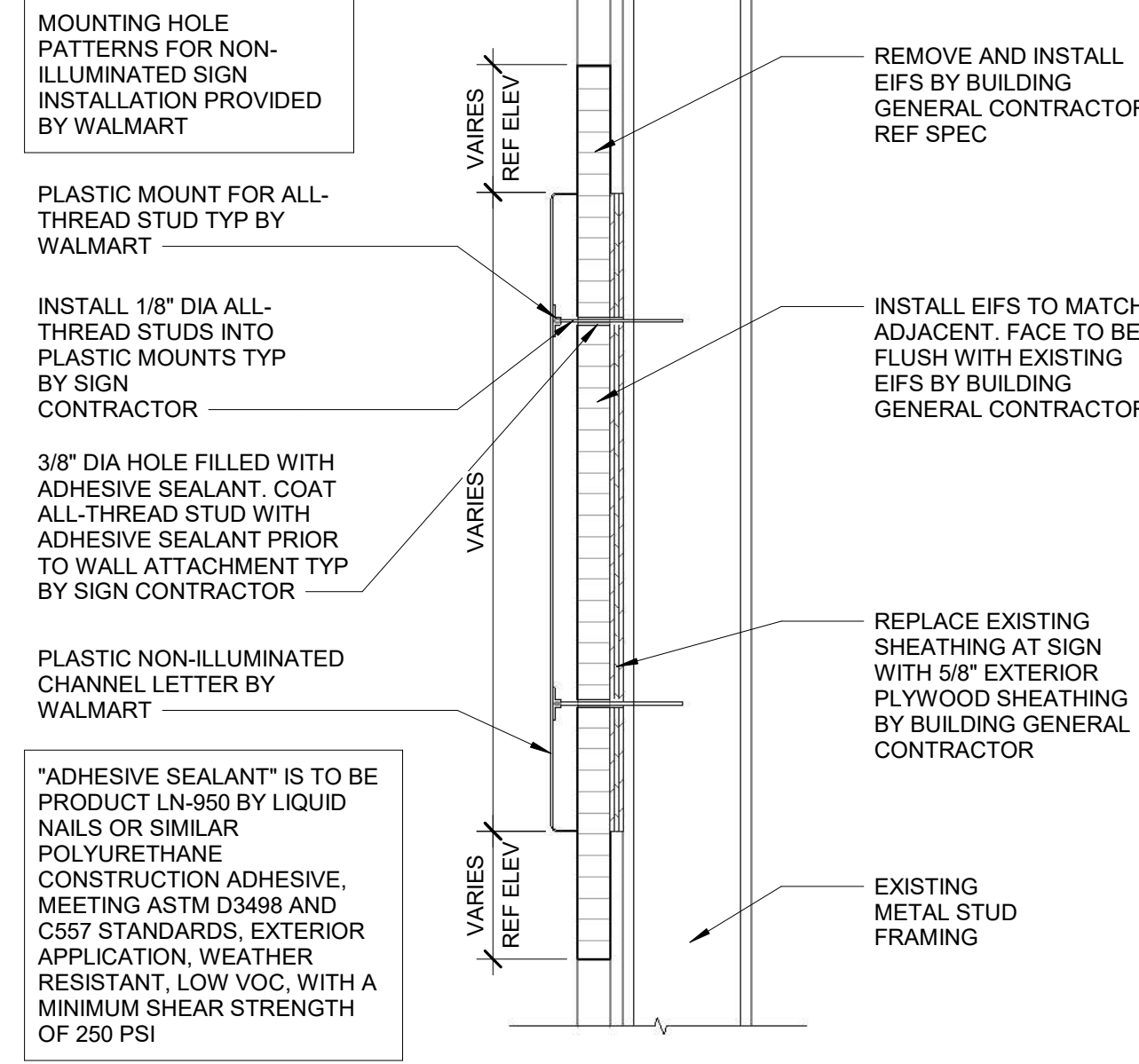
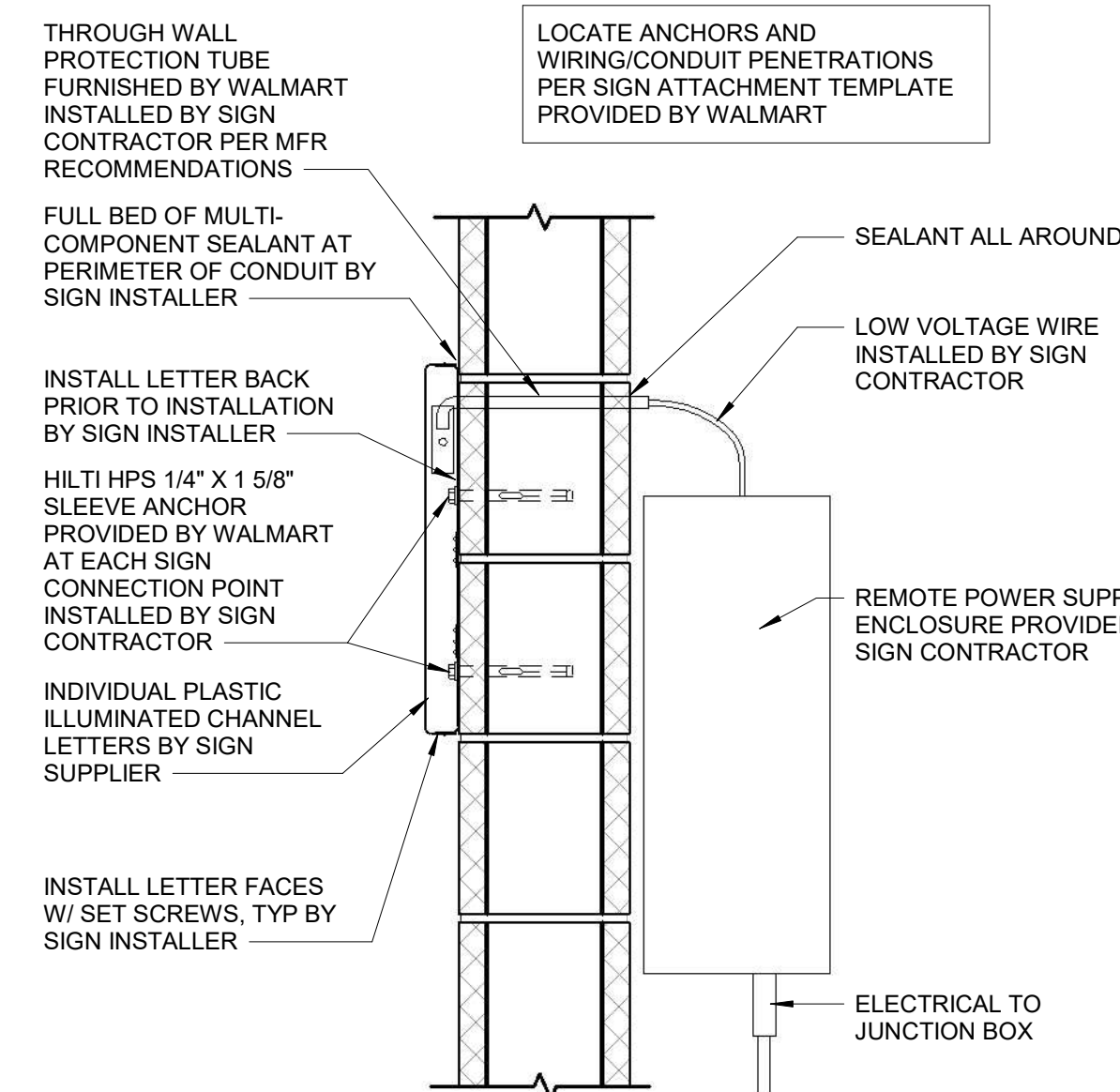
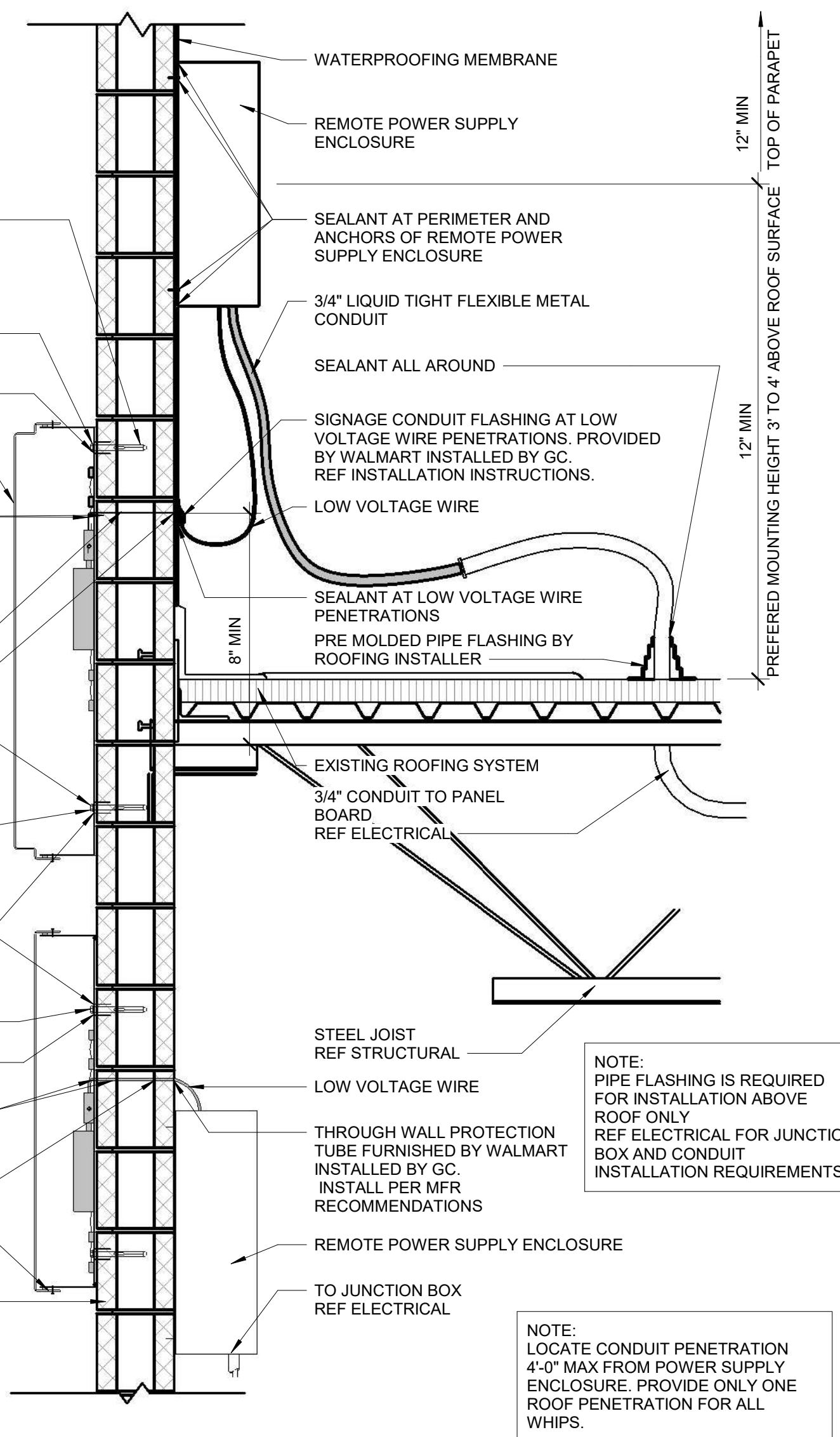
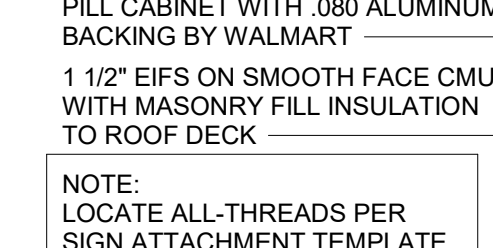
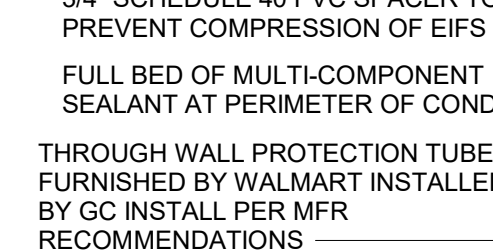
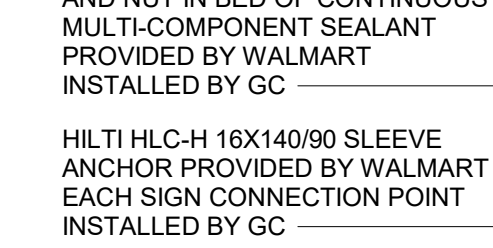
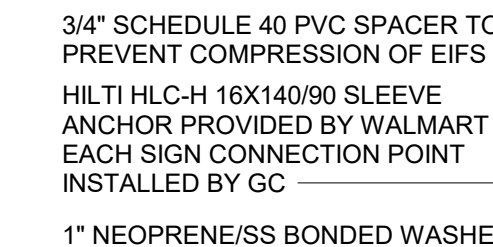
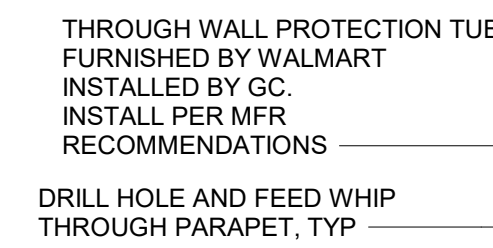
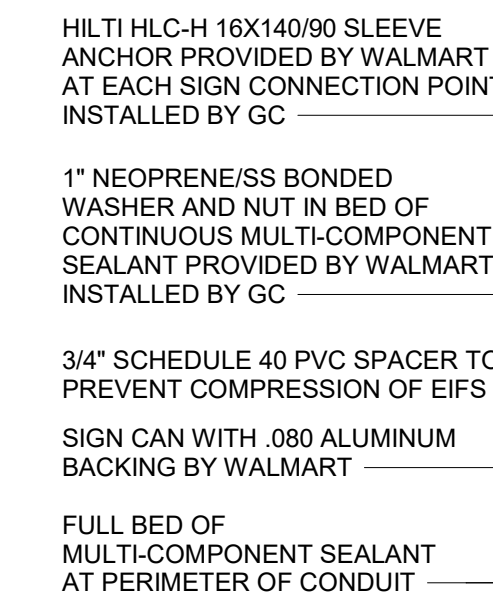




SIGNAGE WILL BE SUBMITTED UNDER SEPARATE PERMIT

NEW SIGNAGE SCHEDULE							
SIGN	QTY	TYPE	LIGHTED	COLOR	SIZE	INDIVIDUAL AREA	TOTAL AREA
<b>FRONT ELEVATION</b>							
ADDRESS NUMERALS	1	NEW	NO	WHITE	1'-0"	0.00 SF	0.00 SF
WALMART	1	NEW	LED	YELLOW/WHITE	10'-3"	146.21 SF	146.21 SF
HOME & PHARMACY	1	NEW	NO	WHITE	2'-0"	94.90 SF	94.90 SF
VISION	1	NEW	NO	WHITE	1'-6"	8.19 SF	8.19 SF
CUT-OUT	1	NEW	NO	WHITE	2'-0"	20.50 SF	20.50 SF
- AUTO CARE	1	NEW	NO	WHITE	1'-6"	16.25 SF	16.25 SF
WINE & SPIRITS	1	NEW	NO	WHITE	2'-0"	44.44 SF	44.44 SF
MARKET	1	NEW	NO	WHITE	2'-6"	27.66 SF	27.66 SF
- PICKUP	1	NEW	LED	WHITE	2'-6"	40.88 SF	40.88 SF
FRONT ELEVATION: 9	9						999.03 SF
<b>AUTO CENTER FRONT</b>							
AUTO CARE	1	NEW	NO	WHITE	2'-0"	38.65 SF	38.65 SF
AUTO NUMERALS 1 2 3 4 5 6	6	NEW	NO	BLACK	2'-0"	6.25 SF	37.50 SF
TIRE	2	NEW	NO	BLACK	1'-0"	2.33 SF	4.66 SF
OIL CHANGE	2	NEW	NO	BLACK	1'-0"	18.38 SF	36.76 SF
AUTO CENTER FRONT: 4	11						117.57 SF
<b>REAR ELEVATION</b>							
AUTO NUMERALS 5 6	2	NEW	NO	BLACK	2'-6"	6.25 SF	12.50 SF
TIRE	2	NEW	NO	BLACK	1'-0"	2.33 SF	4.66 SF
REAR ELEVATION: 2	4						17.16 SF
TOTAL BUILDING SIGNAGE	24						533.76 SF

1. SIGNAGE FURNISHED BY WALM-MART AND INSTALLED BY OTHERS.
2. ALL EXISTING WALMART EXTERIOR SIGNAGE IS TO REMAIN IN PLACE ON THE BUILDING UNTIL THE EXTERIOR SIGN COMPANY IS ON SITE. THE EXTERIOR SIGN COMPANY WILL REMOVE EXISTING SIGNAGE AND INSTALL NEW SIGNAGE. ONCE NEW SIGNAGE IS INSTALLED, GENERAL CONTRACTOR WILL PERFORM PATCH, REPAIR, AND PAINTING WORK NOTED IN PLANS AFTER NEW SIGNAGE IS INSTALLED.
3. A. BOXES THAT ARE NOTED ON THE EXTERIOR SIGNAGE SCHEDULE ARE REPAIRS FOR INSTALLATION OF NEW EXTERIOR SIGNAGE. A TEMPORARY BANNER WILL BE INSTALLED BY THE EXTERIOR SIGN COMPANY PRIOR TO REMOVAL OF EXISTING EXTERIOR SIGNAGE. EXTERIOR SIGNAGE WILL BE INSTALLED UNTIL ALL MODIFICATIONS AND/OR REPAIRS HAVE BEEN COMPLETED AND NEW SIGNAGE IS INSTALLED. GC SHALL PRIORITIZE MODIFICATIONS/REPAIRS REQUIRED FOR INSTALLATION OF EXTERIOR SIGNAGE. EXTERIOR SIGNAGE WILL BE INSTALLED WHEN IT IS ON SITE.
4. B. TEMPORARY BANNER WILL BE APPROXIMATELY 125 SF (5'X25').
5. C. EXTERIOR SIGN WORK NEEDS TO BE SCHEDULED, COORDINATED, AND COMPLETED DURING THE EXTERIOR SIGNAGE SCHEDULE.
6. GENERAL CONTRACTOR RESPONSIBILITIES
7. A. REMOVE EXISTING EXTERIOR BUILDING SIGNAGE AS NOTED ON SHEET A2.
8. B. COMPLETED IDILOGO SIGNAGE TO BE INSTALLED ON EXISTING WALLS.
9. C. BY END OF FIRST WEEK OF CONSTRUCTION, REVIEW EXISTING CONSTRUCTION WHERE SIGNAGE WILL BE INSTALLED. IF EXISTING CONDITIONS DO NOT MATCH SIGN ATTACHMENT DETAILS SHOWN, REQUEST APPROVAL FROM CONSTRUCTION MANAGER TO SUBMIT A REVISION TO THE SIGNAGE SCHEDULE. IF THERE ARE DIFFERENCES IN CONSTRUCTION, INCLUDING DIMENSIONS, AND INCLUDE PHOTOGRAPHS FOR CLARIFICATION.
10. D. SUBMITTER TO PROVIDE THE INSTALLATION OF SIGNAGE. REFER TO DETAILS ON SHEET A2.1. FOR LIGHTED IDILOGO SIGNAGE COORDINATE TIMING OF WORK WITH WALMART SIGN CONTRACTOR.
11. E. EXISTING JUNCTION BOXES TO NEW "Walmart" and "spark" SIGNAGE. EXISTING (B) BOXES FROM "Walmart" SIGNAGE MAY BE REUSED.
12. F. PROVIDE JUNCTION BOXES AND CIRCULARITY TO TENANT SIGNAGE LOCATION (REFER TO A2.1 FOR DETAILS).
13. G. INSTALL ACCESS DOORS AND FRAMES IN GYPSUM BOARD CEILINGS IF REQUIRED BY RELOCATION OF EXISTING TENANT SIGNAGE.
14. H. WIRE VOLTAGE AT CIRCUITS FEEDING LIGHTED SIGNAGE. REFER TO ELECTRICAL.
15. I. MAKE FINAL TERMINATIONS ON LIGHTED SIGNAGE.
16. J. MAKE CONTRACTOR RESPONSIBILITIES
17. A. REMOVE ALL LIT SIGNS UNLESS NOTED OTHERWISE.
18. B. FURNISH SPECIFIED CONDUIT FOR LIGHTED SIGNAGE.
19. C. MAKE REQUIRED EXTERIOR WALL PENETRATIONS, INSTALL CONDUIT, AND SEAL PENETRATIONS PER DETAIL ON SHEET A2.1.
20. D. INSTALL SIGNAGE PER DETAILS ON SHEET A2.1.

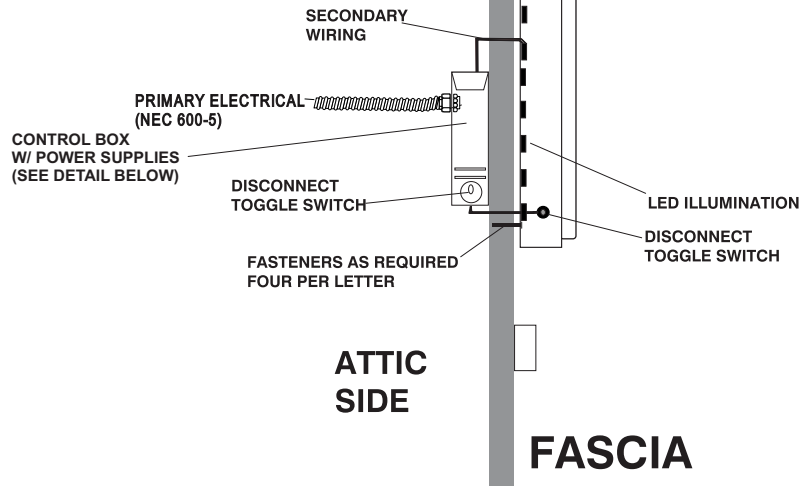


## A2.1



# CHANNEL LETTER - TYPICAL SECTION - FRONT-LIT PLASTIC FACE

ES0000193  
Charles Ogle



120V Primary System - Low Voltage Secondary



N.T.S.

