DIRECTIONAL/WAYFINDING SIGN

045 - TAKE 5

CAR WASH

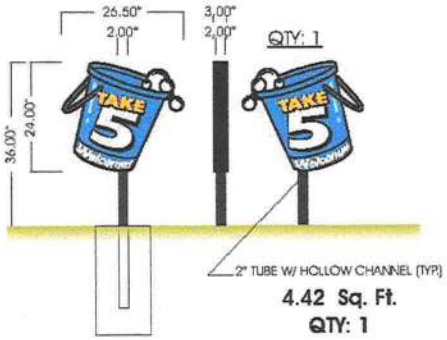
345 W Duval St
Lake City, FL 32055

Underwriters Laboratories Inc.•
UL File #E225670

INITIAL LAYOUT: May 09, 2022

REVISIONS:
I
II
III
IV
V

Color Key:
- PMS 2191 C
- PMS 7691 C
- PMS 107 C
- PMS 7625 C
- Black
- White



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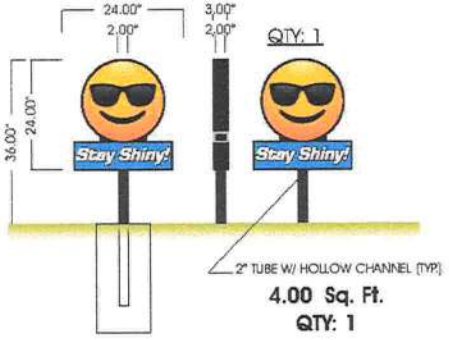
QTY: 1



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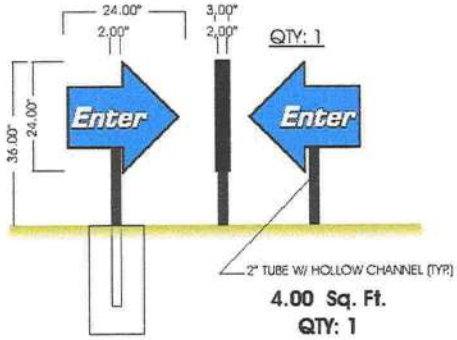
QTY: 1



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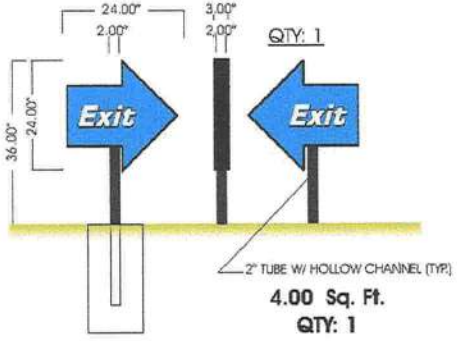
QTY: 1



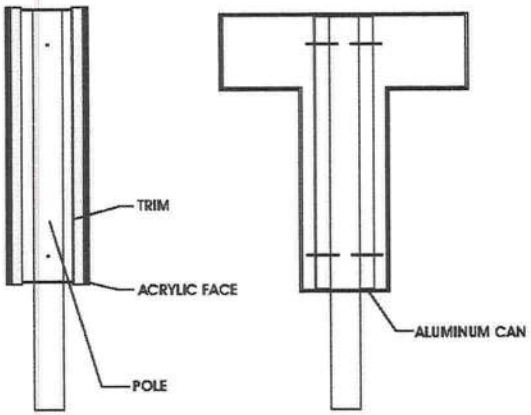
4.00 Sq. Ft.
QTY: 1

SPECIFICATIONS

NON ILLUMINATED
DOUBLE-SIDED
POST & CHANNEL

Size:
As in drawing
Material:
Aluminum square tubing
Channel
Face Color:
As in drawing
Trim:
1"
Trim Color:
Black
Return Color:
Black
Return Depth:
3"
Face:
1/8" Acrylic
Leg Color:
Black
Mounting:
Into Earth

DETAIL



NOTES:
- HOLES TO BE DUG BY HAND TO AVOID DAMAGING UNMARKED UNDERGROUND LINES
- ALL WAYFINDING SIGNS MUST BE REINFORCED WITH CONCRETE

Owner/Landlord Approval _____

SIGNS UNLIMITED
communicate your identity
6801 Mount Hermon Church Rd, Ste C, Durham, NC 27705 • (P) 919-552-8689 • (F) 919-557-1322

SITE PLAN

045 - TAKE 5
CAR WASH
345 W Duval St
Lake City, FL 32055

INITIAL LAYOUT: April 15, 2022

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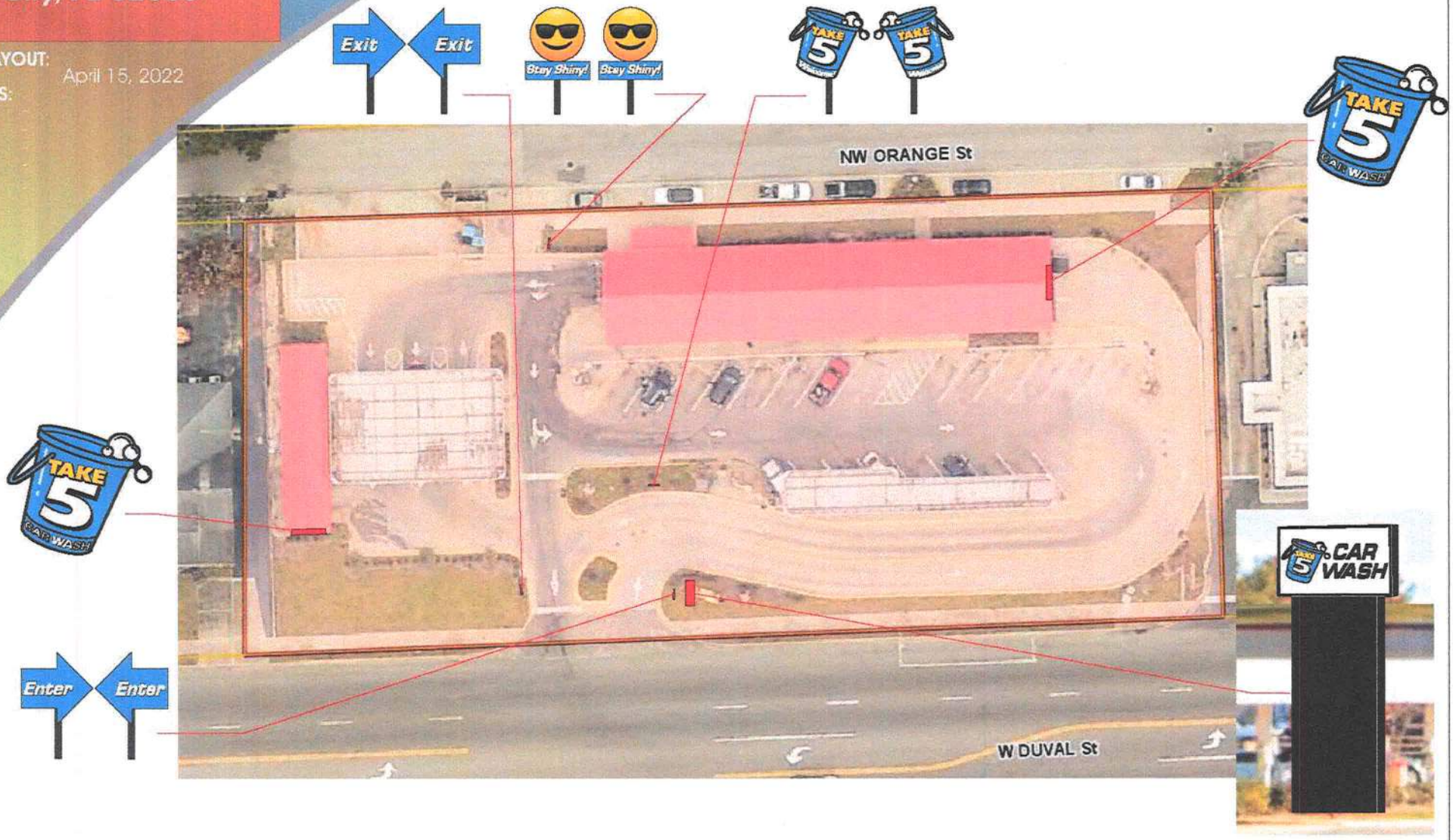
SITE PLAN
PHASE 1



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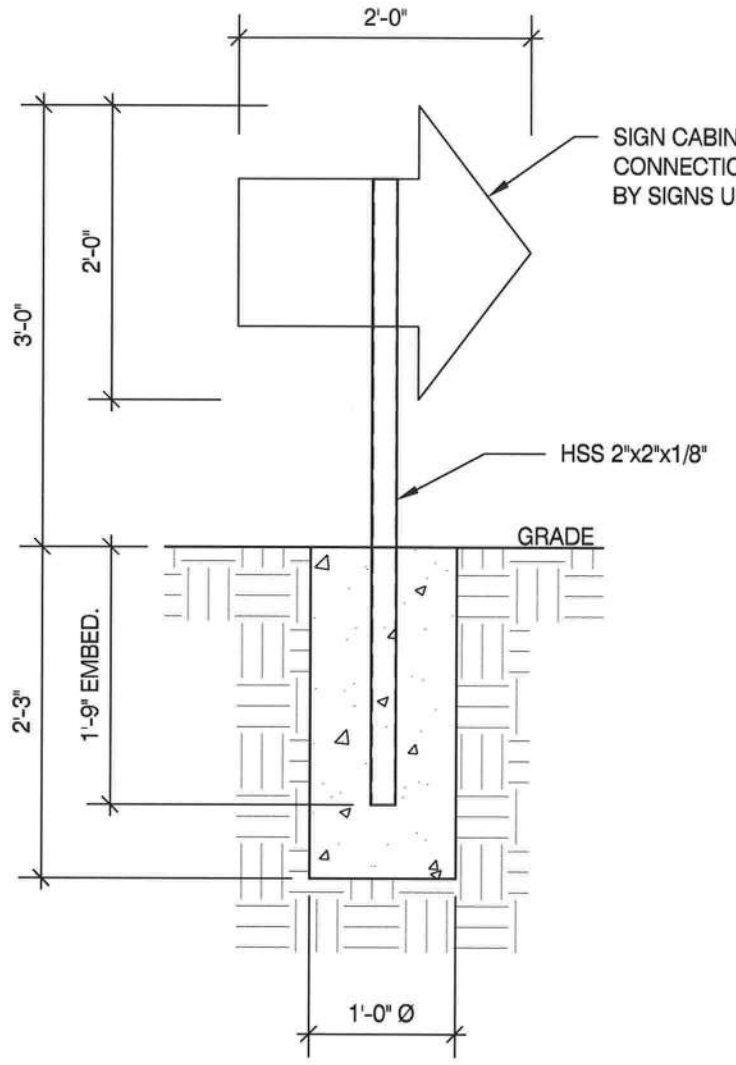


FRONT ELEVATION W/ CAISSON FOUNDATION (1)

SCALE: N.T.S.

CALCULATIONS INCLUDE THE FOLLOWING CONSIDERATIONS AS OUTLINED IN THE 2020 FLORIDA BUILDING CODE (7th ED.) :
CHAPTER 16-LOADS AND FORCES
CHAPTER 17-SPECIAL INSPECTIONS
CHAPTER 18- SOILS AND FOUNDATIONS
CHAPTER 19-CONCRETE
CHAPTER 20-ALUMINUM
CHAPTER 21-MASONRY
CHAPTER 22-STEEL
CHAPTER 23-WOOD
ALL SIGNS SHALL BE COMPLIANT WITH CURRENT NEC CODES

NOTES
1.) SEE MANUFACTURERS DRAWINGS FOR ADDITIONAL DETAILS AND DIMENSIONS.
2.) SIGN CABINET AND CONNECTION BY SIGNS UNLIMITED.

* CLIENT - SIGNS UNLIMITED
* 2020 FLORIDA BUILDING CODE 7TH ED.
* RISK CATEGORY II
* 120 MPH WIND SPEED, EXP. C
* (1) POLE, (1) FOOTING

WIND DATA

Building Code	2020 Florida Buildir	Importance Factor, I	1.0	Damping Ratio, β	0.005
Wind Load Criteria	ASCE 7-16	Directionality Factor, K_d [2]	0.85	Natural Frequency, n_1	12.87 Hz
Wind Speed, V	120 mph	Topography Factor, K_{zt}	1.0	Gust Effect Factor, G	0.85
Exposure Category	C	Base Pressure, $q(q_z/K_d)$	18.8 psf	ASD Wind Load Factor, γ [3]	0.6
Wind Pressure Override per Jurisdiction Requirement	0 psf				

DEFLECTION ANALYSIS

Deflection Limit		H/60
Deflection at 0.7*W		0.04 in
Deflection Ratio	✓	H/873

Notes: *(1) Loading values in chart below are based upon average K_z values for each segment. Actual values are calculated on hidden sheet using derived V-M equations. Chart is provided for information purposes only.*
(2) Wind directionality (K_d) factor is 0.95 for Single Pole (Round) segments instead of 0.85. The C_f value from Fig. 6-21 has been increased by 0.95/0.85 to account for this variation.
(3) Wind pressures listed below have already been multiplied by the ASD Wind Load Factor, γ.

GEOMETRY INPUT [1] *Monument:* No

No. of Poles 1 No. of Footings 1

Section	Location	Type	Height ft	Width ft	Horiz. Offset ft	Area sq ft	Top Elev. ft	Centroid ft	K_z	C_f	Wind Press. psf	Support Pole Loads: Trib. Factor	Shear kips	Moment k-ft	Footing Loads: Trib. Factor	Shear kips	Moment k-ft
1	Base	Single Pole (Not Round)	1.00	0.17		0.2	1.0	0.5	0.85	1.65	22.4	1.0	0.0	0.0	1.0	0.0	0.0
2		Single Pole w/ Cabinet	2.00	2.21		4.4	3.0	2.0	0.85	1.65	22.4	1.0	0.1	0.2	1.0	0.1	0.2
		Overall Height:	3.00 ft									*Summation based upon averages above:*		0.1			0.2
												Actual base reactions based upon V-M equations:		0.1			0.2

SUPPORT POLE DESIGN SUMMARY MATERIAL = STEEL

Base Elev ft	Section	Axis	Required Strength Values (ASD): V_r kips	M_r kip-ft	T_r kip-ft	P_r kips	Allowable Strength Values (ASD): V_c kips	M_c kip-ft	T_c kip-ft	P_c kips	Unity Ratios: V_r/V_c	M_r/M_c	T_r/T_c	P_r/P_c	Interaction Ratios: P-M	P-M-V-T	Status
0.00	HSS2X2X1/8	Strong	0.1	0.2	0.0	0.1	7.1	1.3	1.1	12.7	1.5%	14.9%	3.9%	0.4%	15.3%	0.0%	✓

FOUNDATION DESIGN SUMMARY

	Type	Diameter ft	Width ft	Thickness ft	Length ft	Depth ft	Volume CY	Reinforcing	Status	Allowable Soil Pressure
✓	Caisson	1.00	--	--	--	2.25	0.07		OK	300 psf/ft
	Vertical Slab									
	Spread									

MBI COMPANIES INC.
299 N. WEISGARBER RD.
KNOXVILLE, TN 37919
PHONE 865.584.0999
SIGN-ENGINEER.COM

PROJECT: 345 West Duval Street, Lake City, Florida, 32055

DRAWN BY: DEW | CHECKED BY: TSM | COMM. NO. 220149.164 | DATE: 09/27/22

DRAWING TITLE: TAKE 5

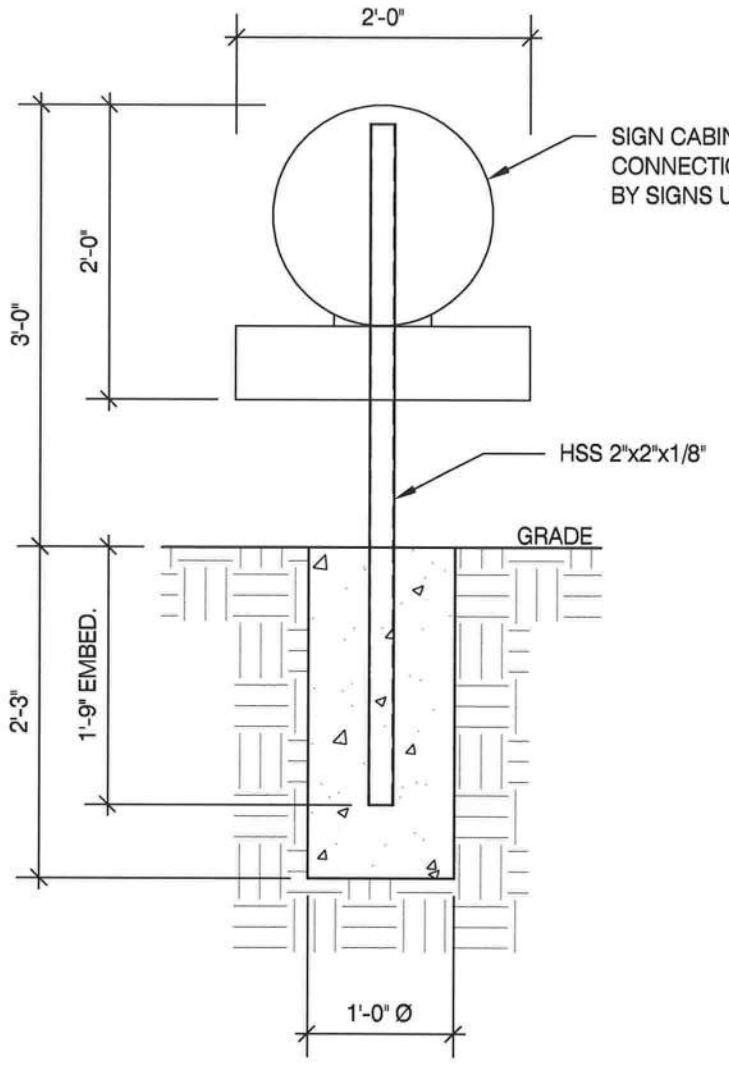
CORP. LIC. # F02000002650
BUS. LIC. # AA26000828
ENG. C.O.A. # 29794

REV #	DATE	DRAWN BY

DRAWING NO. DWG. 5

DARREN SETH ANTLE LICENSE No. 76813 STATE OF FLORIDA PROFESSIONAL ENGINEER

DARREN S. ANTLE, P.E. LIC # 76813 4/18/23



FRONT ELEVATION W/ CAISSON FOUNDATION (1)

SCALE: N.T.S.

CALCULATIONS INCLUDE THE FOLLOWING CONSIDERATIONS AS OUTLINED IN THE 2020 FLORIDA BUILDING CODE (7th ED.) :
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ALL SIGNS SHALL BE COMPLIANT WITH CURRENT NEC CODES

NOTES
1.) SEE MANUFACTURERS DRAWINGS FOR ADDITIONAL DETAILS AND DIMENSIONS.
2.) SIGN CABINET AND CONNECTION BY SIGNS UNLIMITED.

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* 2020 FLORIDA BUILDING CODE 7TH ED.
* RISK CATEGORY II
* 120 MPH WIND SPEED, EXP. C
* (1) POLE, (1) FOOTING

WIND DATA

Building Code	2020 Florida Buildir	Importance Factor, I	1.0	Damping Ratio, β	0.005
Wind Load Criteria	ASCE 7-16	Directionality Factor, K_d [2]	0.85	Natural Frequency, n_1	12.87 Hz
Wind Speed, V	120 mph	Topography Factor, K_{zt}	1.0	Gust Effect Factor, G	0.85
Exposure Category	C	Base Pressure, $\gamma(q_z/K_d)$	18.8 psf	ASD Wind Load Factor, γ [3]	0.6
Wind Pressure Override per Jurisdiction Requirement	0 psf				

DEFLECTION ANALYSIS

Deflection Limit		H/60
Deflection at 0.7*W		0.04 in
Deflection Ratio	✓	H/873

Notes: (1) Loading values in chart below are based upon average K_z values for each segment. Actual values are calculated on hidden sheet using derived V-M equations. Chart is provided for information purposes only.
(2) Wind directionality (K_d) factor is 0.95 for Single Pole (Round) segments instead of 0.85. The C_f value from Fig. 6-21 has been increased by 0.95/0.85 to account for this variation.
(3) Wind pressures listed below have already been multiplied by the ASD Wind Load Factor, γ.

GEOMETRY INPUT [1] — *Monument:* No

No. of Poles: 1 — No. of Footings: 1

Section	Location	Type	Height	Width	Horiz. Offset	Area	Top Elev.	Centroid	K_z	C_f	Wind Press.	Support Pole Loads Trib.	Support Pole Loads Shear	Support Pole Loads Moment	Footing Loads Trib.	Footing Loads Shear	Footing Loads Moment
			ft	ft	ft	sq ft	ft	ft			psf	Factor	kips	k-ft	Factor	kips	k-ft
1	Base	Single Pole (Not Round)	1.00	0.17		0.2	1.0	0.5	0.85	1.65	22.4	1.0	0.0	0.0	1.0	0.0	0.0
2		Single Pole w/ Cabinet	2.00	2.21		4.4	3.0	2.0	0.85	1.65	22.4	1.0	0.1	0.2	1.0	0.1	0.2
		Overall Height:	3.00 ft				*Summation based upon averages above:*						0.1	0.2		0.1	0.2
							Actual base reactions based upon V-M equations:						0.1	0.2		0.1	0.2

SUPPORT POLE DESIGN SUMMARY — MATERIAL = STEEL

Base Elev	Section	Axis	Required Strength Values (ASD) V_r	M_r	T_r	P_r	Allowable Strength Values (ASD) V_c	M_c	T_c	P_c	Unity Ratios V_r/V_c	M_r/M_c	T_r/T_c	P_r/P_c	Interaction Ratios P-M	P-M-V-T	Status
ft			kips	kip-ft	kip-ft	kips	kips	kip-ft	kip-ft	kips							
0.00	HSS2X2X1/8	Strong	0.1	0.2	0.0	0.1	7.1	1.3	1.1	12.7	1.5%	14.9%	3.9%	0.4%	15.3%	0.0%	✓

FOUNDATION DESIGN SUMMARY

Type	Diameter	Width	Thickness	Length	Depth	Volume	Reinforcing	Status	Allowable Soil Pressure
	ft	ft	ft	ft	ft	CY			
✓ Caisson	1.00	--	--	--	2.25	0.07		OK	300 psf/ft
Vertical Slab									
Spread									

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DRAWING TITLE: TAKE 5

CORP. LIC. # F02000002650
BUS. LIC. # AA26000828
ENG. C.O.A. # 29794

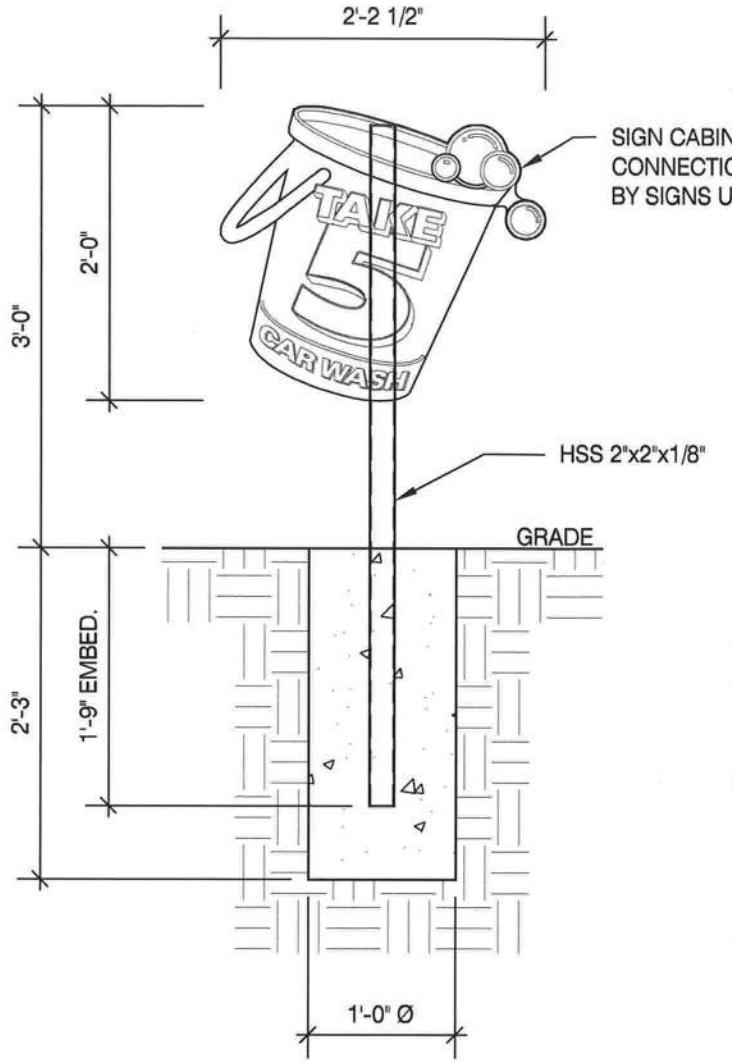
REV #	DATE	DRAWN BY

DRAWING NO. DWG. 4

DARREN S. ANTLE, P.E. LIC # 76813 — 4/18/23

GROUND SIGN DESIGN SPECIFICATIONS:

1. REFER TO SIGN COMPANY'S DRAWINGS FOR MORE DETAILS. ALL DESIGNS, DETAILING FABRICATION AND CONSTRUCTION SHALL CONFORM TO:
   2020 FLORIDA BUILDING CODE 7TH ED.
   ACI
   AISC
   AMERICAN WELDING SOCIETY
   LOCAL BUILDING CODES & ORDINANCES
2. CONCRETE: 2500 PSI @ 28 DAYS
3. STD. STEEL PIPE SECTION: ASTM A53 GRADE B (Fy=35 KSI), U.N.O.
4. STEEL PIPE SECTION (> 20" Ø): ASTM A252 GRADE 3 (Fy=42 KSI MIN.) U.N.O.
5. HSS ROUND SECTION: ASTM A500 GRADE B (Fy=42 KSI) U.N.O.
6. HSS SQUARE/RECTANGULAR SECTION: ASTM A500 GRADE B (Fy=46 KSI)
7. W SHAPES: ASTM A992 (Fy = 50 KSI)
8. ANCHOR BOLTS: ASTM F1554 GRADE 36 U.N.O. (ALTERNATES GRADE 55 & 105)
9. CONNECTION BOLTS: ASTM A325
10. THREADED RODS: ASTM A193 GRADE B7
11. STEEL ANGLES, CHANNELS, STRUCTURAL SHAPES & PLATES ASTM A36
12. REINFORCING: GRADE 60 ASTM A615
13. PROVIDE A MINIMUM OF THREE INCHES OF CONCRETE COVER OVER EMBEDDED STEEL.
14. THE CONTRACTOR (INSTALLER) IS RESPONSIBLE FOR THE MEANS & METHODS OF CONSTRUCTION IN REGARDS TO JOBSITE SAFETY.
15. NO FIELD HEATING FOR BENDING OR CUTTING OF STEEL SHALL BE ALLOWED WITHOUT THE ENGINEER'S APPROVAL.
16. WELDING ELECTRODES: E70XX
17. ALLOWABLE SOIL BEARING PRESSURE ASSUMED: 2000 PSF
18. ASSUMED HORIZONTAL (PASSIVE PRESSURE) ASSUMED AT 150 PSF/FT OF DEPTH. ISOLATED LATERAL BEARING FOUNDATIONS FOR SIGNS NOT ADVERSELY AFFECTED A 1/2" MOTION AT THE GROUND SURFACE DUE TO SHORT TERM LATERAL LOADS SHALL BE PERMITTED TO BE DESIGNED USING TWO TIMES THE TABULATED CODE VALUES.
19. ALL FOOTINGS SHALL BEAR ON FIRM UNDISTURBED RESIDUAL SOIL AND/OR ENGINEERED EARTH.
20. FILL COMPACTED TO 98% OF ITS MAXIMUM DRY DENSITY AS PER ASTM D 698-70 (STANDARD PROCTOR) UNLESS NOTED OTHERWISE. THE SOIL BEARING CAPACITY IS TO BE VERIFIED BY A GEOTECHNICAL ENGINEER PRIOR TO CONSTRUCTION. IF ALLOWABLE BEARING AND/OR LATERAL PRESSURE IS LESS THAN THE ABOVE ASSUMED AND/OR CALCULATED PRESSURES, THE ENGINEER SHOULD BE CONTACTED FOR RE-EVALUATION.
21. EXCAVATION SHALL BE FREE OF LOOSE SOIL BEFORE POURING CONCRETE.
22. WELDERS SHALL BE CERTIFIED FOR THE TYPE OF WELDING.
23. ADEQUATELY BRACE POLE(S) UNTIL CONCRETE HAS SET UP FOR 14 DAYS.
24. GROUT UNDER BASE PLATES WITH NON-SHRINK GROUT.
25. THIS ENGINEER DOES NOT WARRANT THE ACCURACY OF DIMENSIONS FURNISHED BY OTHERS.
26. ALL EXPOSED STEEL SHALL BE PAINTED WITH AN ENAMEL PAINT TO INHIBIT CORROSION.
27. THIS DESIGN IS FOR THE INDICATED ADDRESS ONLY, AND SHOULD NOT BE USED AT OTHER LOCATIONS WITHOUT WRITTEN PERMISSION OF THE ENGINEER.
28. DESIGN OF DETAILS AND STRUCTURAL MEMBERS NOT SHOWN, BY OTHERS.



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Wind Pressure Override per Jurisdiction Requirement	0 psf				

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		Overall Height:	3.00 ft								*Summation based upon averages above:*		0.1	0.2		0.1	0.2
											Actual base reactions based upon V-M equations:		0.1	0.2		0.1	0.2

SUPPORT POLE DESIGN SUMMARY MATERIAL = STEEL

Base Elev ft	Section	Axis	Required Strength Values (ASD) V_r kips	M_r kip-ft	T_r kip-ft	P_r kips	Allowable Strength Values (ASD) V_c kips	M_c kip-ft	T_c kip-ft	P_c kips	Unity Ratios V_r/V_c	M_r/M_c	T_r/T_c	P_r/P_c	Interaction Ratios P-M	P-M-V-T	Status
0.00	HSS2X2X1/8	Strong	0.1	0.2	0.0	0.1	7.1	1.3	1.1	12.7	1.5%	14.9%	3.9%	0.4%	15.3%	0.0%	✓

FOUNDATION DESIGN SUMMARY

Type	Diameter ft	Width ft	Thickness ft	Length ft	Depth ft	Volume CY	Reinforcing	Status	Allowable Soil Pressure
✓ Caisson	1.00	--	--	--	2.25	0.07		OK	300 psf/ft
Vertical Slab									
Spread									

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CORP. LIC. # F02000002650
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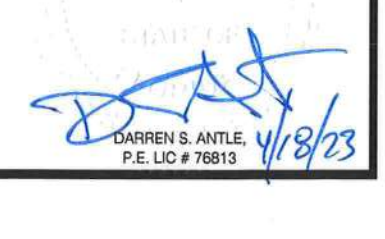
ENG. C.O.A. # 29794

REV #	DATE	DRAWN BY

DRAWING NO. DWG. 3



FRONT ELEVATION

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Underwriters Laboratories Inc. •
UL File #E225670

PROOF

Sq. Ft. Signage:
58.47
Signage Allowance:
Zoned CG
1.5 Sq. Ft. Per 1 Ft. Linear Lot Frontage Aggregate
Maximum Sq. Ft.: 525 Sq. Ft. Aggregate
(350 Ft. Lot Frontage)
Minimum Clearance: 9 Ft. from Grade

Color Key:
- PMS 2191 C
- PMS 7691 C
- PMS 107 C
- PMS 7625 C
- Black
- White

PAINTING
BY CLIENT/GC PRIOR TO INSTALLATION

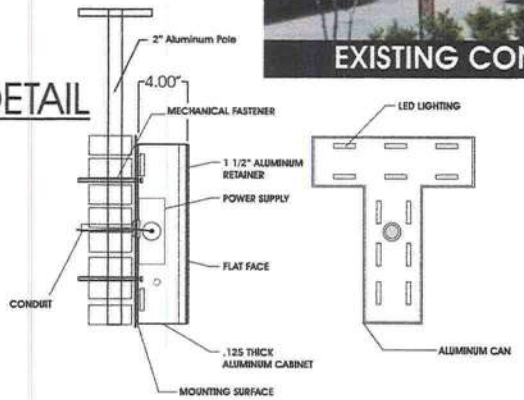

EXISTING CONDITIONS

IMPOSED IMAGERY

SPECIFICATIONS
ILLUMINATED CHANNEL LETTERS ON RACEWAYS

Quantity:
See above
Size:
As in drawing
Trim:
1"
Trim Color:
Black
Return Color:
Black
Face Color:
White
Face:
1/8" Acrylic
Letter Interior:
Gloss White
Illumination:
LED
Raceway Size:
4" x 7" 0.125 Extruded Aluminum
Raceway Color:
To Match Facade
Mounting:
Hanging Bars Flush to Fascia

DETAIL

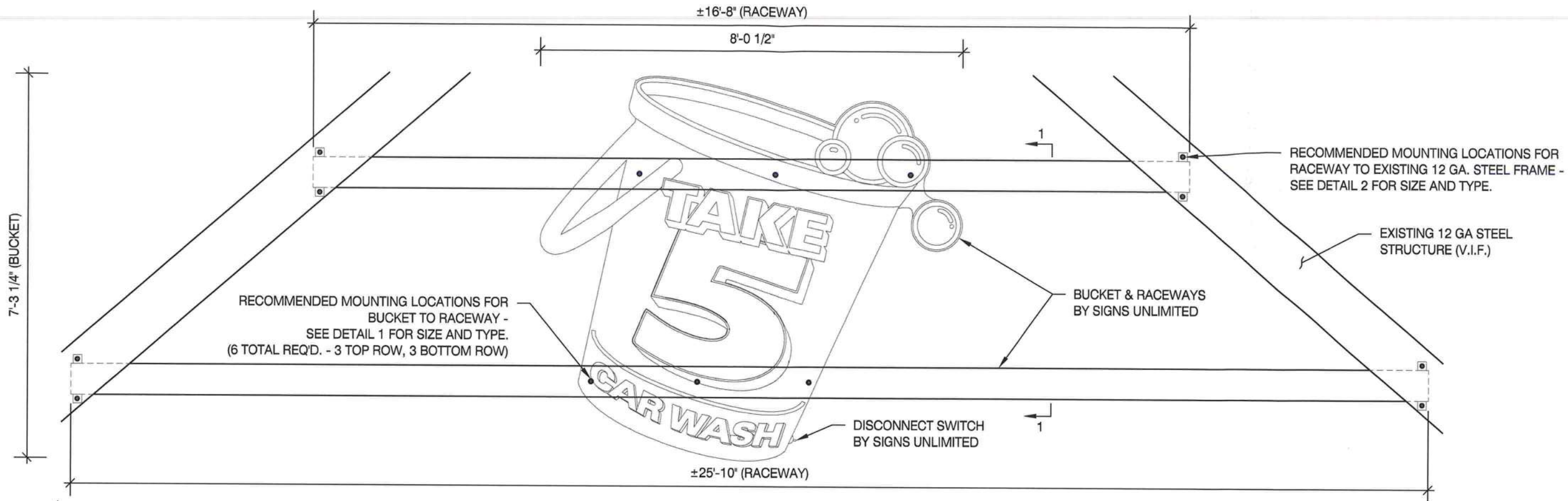


NOTES:
- IF ELECTRICIAL LINE/J-BOX IS WITHIN 6' OF ELECTRICAL, CONNECTION TO BE HANDLED BY INSTALLER. IF NOT ELECTRICAL HANDLED BY OWNER/GC
- IF ROOF PENETRATIONS ARE NECESSARY, THEY ARE TO BE SEALED BY A ROOFER. THIS IS HANDLED BY THE GC/OWNER
- REMOVAL AND DISPOSAL OF EXISTING WALL SIGNS HANDLED BY GC/OWNER

Owner/Landlord Approval _____

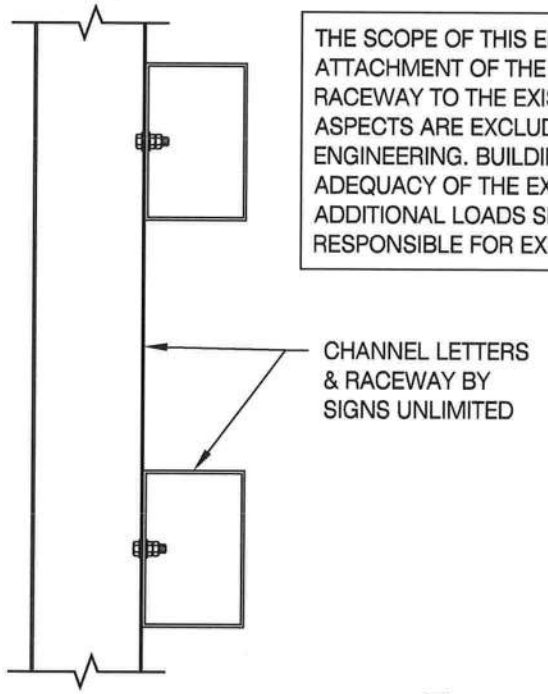
SIGNS UNLIMITED
communicate your identity

6801 Mount Hermon Church Rd, Ste C, Durham, NC 27705 • (P) 919-552-8689 • (F) 919-557-1322

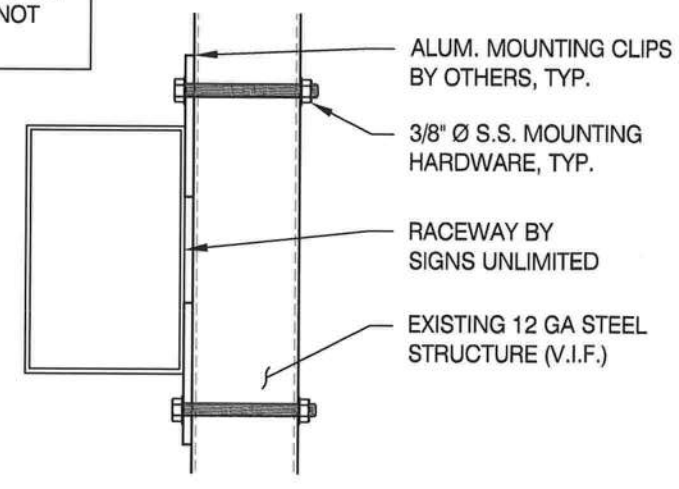


87 1/4" CUSTOM LOGO W/ RACEWAYS - FRONT ELEVATION (A)
SCALE: N.T.S.

THE SCOPE OF THIS ENGINEERING IS LIMITED TO THE ATTACHMENT OF THE SIGN TO RACEWAY AND RACEWAY TO THE EXISTING STRUCTURE. ALL OTHER ASPECTS ARE EXCLUDED FROM THE SCOPE OF THIS ENGINEERING. BUILDING ENGINEER TO VERIFY ADEQUACY OF THE EXISTING STRUCTURE TO RESIST ADDITIONAL LOADS SHOWN. THIS ENGINEER NOT RESPONSIBLE FOR EXISTING STRUCTURE.



3/8" Ø S.S. BOLT W/ WASHER & NUT (6 REQ'D.) (DUAL RACEWAY) (1)
SCALE: N.T.S.



3/8" Ø S.S. THRU-BOLT W/ WASHER & NUT (4 REQ'D.) (2)
SCALE: N.T.S.

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CHAPTER 16-LOADS AND FORCES
CHAPTER 17-SPECIAL INSPECTIONS
CHAPTER 18- SOILS AND FOUNDATIONS
CHAPTER 19-CONCRETE
CHAPTER 20-ALUMINUM
CHAPTER 21-MASONRY
CHAPTER 22-STEEL
CHAPTER 23-WOOD
ALL SIGNS SHALL BE COMPLIANT WITH CURRENT NEC CODES

NOTES

1.) SEE MANUFACTURERS DRAWINGS FOR ADDITIONAL DETAILS AND DIMENSIONS.

* CLIENT - SIGNS UNLIMITED
* 2020 FLORIDA BUILDING CODE 7TH ED.
* RISK CATEGORY II
* 120 MPH WIND SPEED, EXP. C

MBI COMPANIES INC.
299 N. WEISGARBER RD.
KNOXVILLE, TN 37919
PHONE 865.584.0999
SIGN-ENGINEER.COM

PROJECT: 345 West Duval Street, Lake City, Florida, 32055

DRAWN BY: DEW | CHECKED BY: TSM | COMM. NO. 220149.164 | DATE: 09/27/22

DRAWING TITLE: TAKE 5

CORP. LIC. # F02000002650
BUS. LIC. # AA26000828
ENG. C.O.A. # 29794

REV #	DATE	DRAWN BY

DRAWING NO. DWG. 1

DARREN SETH ANTLE LICENSE No. 76813 STATE OF FLORIDA

DARREN S. ANTLE, P.E. LIC # 76813 9/19/23

FRONT ELEVATION

045 - TAKE 5
CAR WASH
345 W Duval St
Lake City, FL 32055

INITIAL LAYOUT: April 15, 2022

REVISIONS:
I
II
III
IV
V

Underwriters Laboratories Inc. •
UL File #E225670

PROOF

Sq. Ft. Signage:
58.47
Signage Allowance:
Zoned CG
1.5 Sq. Ft. Per 1 Ft. Linear Lot Frontage Aggregate
Maximum Sq. Ft.: 525 Sq. Ft. Aggregate (350 Ft. Lot Frontage)
Minimum Clearance: 9 Ft. from Grade

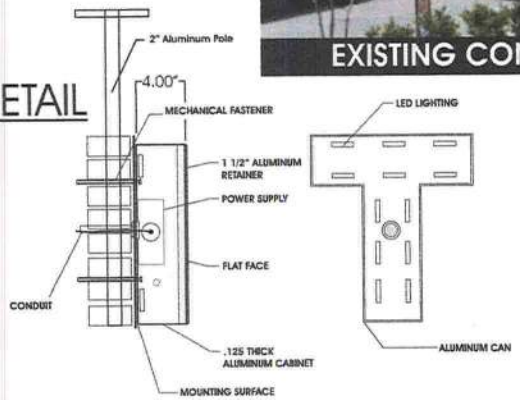
Color Key:
- PMS 2191 C
- PMS 7691 C
- PMS 107 C
- PMS 7625 C
- Black
- White

PAINTING
BY CLIENT/GC PRIOR TO INSTALLATION


EXISTING CONDITIONS

IMPOSED IMAGERY

DETAIL



NOTES:
- IF ELECTRICIAL LINE/J-BOX IS WITHIN 6' OF ELECTRICAL, CONNECTION TO BE HANDLED BY INSTALLER. IF NOT ELECTRICAL HANDLED BY OWNER/GC
- IF ROOF PENETRATIONS ARE NECESSARY, THEY ARE TO BE SEALED BY A ROOFER. THIS IS HANDLED BY THE GC/OWNER
- REMOVAL AND DISPOSAL OF EXISTING WALL SIGNS HANDLED BY GC/OWNER

SPECIFICATIONS
ILLUMINATED CHANNEL LETTERS ON RACEWAYS

Quantity: See above
Size: As in drawing
Trim: 1"
Trim Color: Black
Return Color: Black
Face Color: White
Face: 1/8" Acrylic
Letter Interior: Gloss White
Illumination: LED
Raceway Size: 4" x 7" 0.125 Extruded Aluminum
Raceway Color: To Match Facade
Mounting: Hanging Bars Flush to Fascia

COLUMBIA COUNTY BUILDING DEPARTMENT
Received for FILE COPY
Code Compliance
PLANS EXAMINER

Owner/Landlord Approval _____

SIGNS UNLIMITED
communicate your identity

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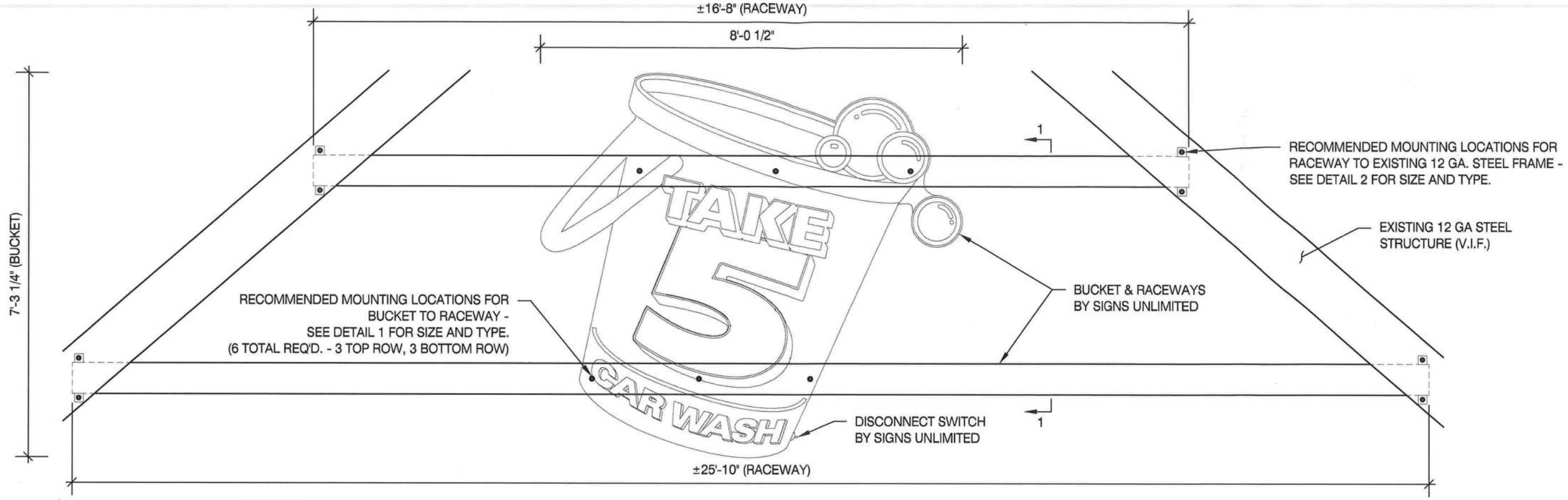

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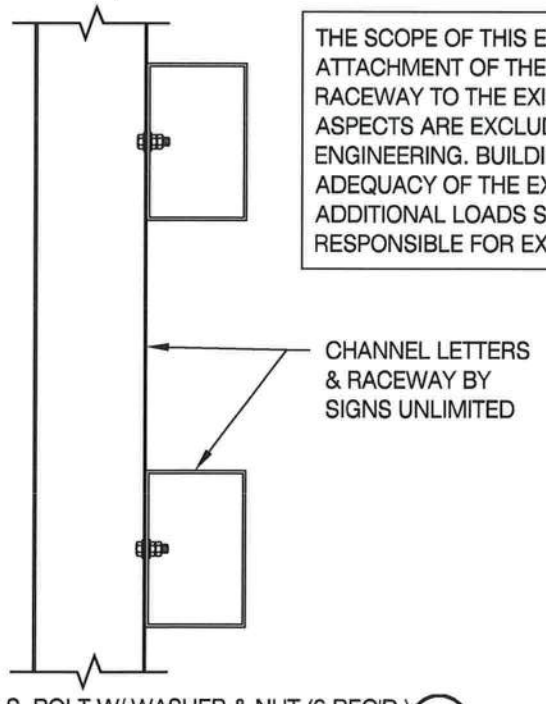

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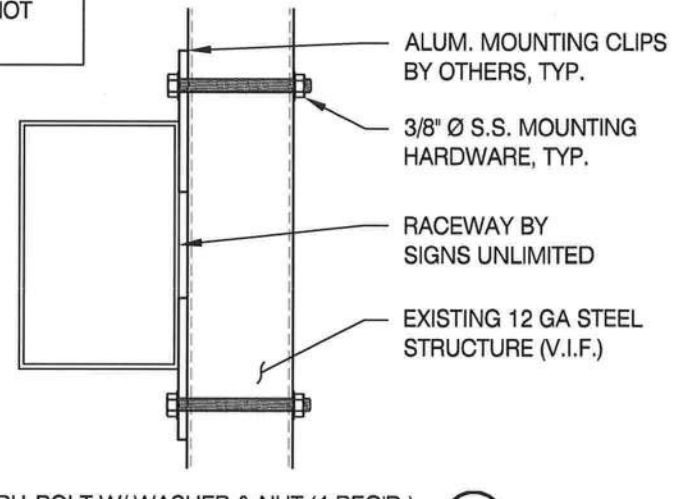

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