

Scope of Work
Vessel Registration and State Ramp Use Decals for 2028 for
Department of Land and Natural Resources
Division of Boating and Ocean Recreation (DOBOR)

The contractor shall provide all labor and material as specified herein.

Description

Reflective, weather resistant vessel registration and boat ramp use decals. Decals shall be printed on reflective sheeting, consisting of lens elements enclosed within a transparent resin and shall have a pre-coated pressure sensitive adhesive backing protected by a removable liner. The retro-reflective sheeting shall provide a durable and weather resistant, essentially smooth, flat, outer surface when finished with material in the manner recommended by the retro-reflective sheeting manufacturer.

A. RETRO-REFLECTIVE SHEETING REQUIREMENTS

1.0 Reflective Characteristics

The unprinted retro-reflective sheeting shall have the following minimum brightness values expressed as average candlepower per square foot of material. Measurements shall be conducted in accordance with the reflective intensity testing procedures for reflective sheeting specified in federal specification LA-300C, "Sheeting and Tape, Reflective: Non-Exposed Lens, Adhesive Backing", Para. 4.4.7.

	White		
Observation Angles	0.2	0.5	
Entrance Angles	-4.0 40.0	30.0 6.0	18.0 5.0

2.0 Rainfall Performance

The brightness of the sheeting, totally wet by rain, shall not be less than 90% of the above values. Wet performance measurements shall be conducted at 0.2 observation and -4 entrance in accordance with the rainfall test method specified in federal specification LS-300C, "Sheeting and Tape Reflective: Non-Exposed Lens, Adhesive Backing", Para. 4.4.9.4.

3.0 Adhesive

- 3.1 Decals must have a pre-coated pressure sensitive adhesive that forms a durable, vandal resistant bond to clean, dry, painted, varnished, fiberglass, aluminum, and steel surfaces. Surfaces may be moderately rough, pitted or waxed.
- 3.2 The protective liner attached to the adhesive shall be removed by peeling without soaking in water or other solvents and shall be easily removed after accelerated storage for up to four hours at 150°F under weight of 2.5 lbs. per square inch.

Scope of Work

Vessel Registration and State Ramp Use Decals for 2028

- 3.3 The adhesive shall not exude from edges of the sheeting when processed into the finished decal so as to cause stacked pieces to stick together during shearing, cutting, printing, handling, or while packaged in shipment and distribution.

4.0 Film

- 4.1 The sheeting shall have a similar diffuse (daytime) and reflected (night time) color.
- 4.2 The sheeting surface shall be readily cut/diecut without cracking, or flaking, and shall be compatible with transparent or opaque inks and protective finishing clear as designed and supplied by the reflective sheeting manufacturer for decal fabrication.
- 4.3 The decals processed and applied in accordance with the recommendations of the reflective sheeting manufacturer shall be easily cleansed of normal direct accumulation by washing with water and mild detergent. The surface of the decals and wording and numerics printed thereon shall be sufficiently solvent resistant to permit cleaning with solvents such as VW&P naphtha, mineral spirits, turpentine, and other solvents commonly used on vessel finishes. When rinsed and dried, the surface shall show no appreciable change following cleaning when compared to a new clean decal surface.
- 4.4 The protective finished clear coating on the decals shall remain clear and durable and must provide a compatible surface for direct application of additional decals. The protective finished clear coating on the front of the decals shall also be designed so as to not de-laminate when repeatedly exposed to sunlight and heat for at least twelve (12) months.

5.0 Physical Characteristics

Retro-reflective sheeting shall be free from ragged edges, cracks, and blisters and be packaged in accordance with accepted commercial standards. Decals shall have a service life of a minimum of twelve (12) months.

B. FABRICATION REQUIREMENTS

1.0 Item No. 1: Vessel Registration Decal

1.1 Design, Color and Size

The size, shape, and design of the decals, as well as the size and position of all printing, shall be in strict conformity with the attached sample and the following requirements.

Scope of Work

Vessel Registration and State Ramp Use Decals for 2028

The vessel registration decal shall have a background sheeting of "Confirm" brand security film No. 4230 (white). The border and wording shall be reversed printing with "Scotchlite" brand transparent process color red or a material of equal quality. Finished decal must be clear coated with "Scotchlite" brand clear coat No. 260 or a material of equal quality.

All wording and numerics shall be printed with "Scotchlite" brand process color No. 200 (black) or a material of equal quality. The "month number" shall be followed by a slash, the year of the decal expiration shall be "28". Font shall be "Arial."

The dimensions of each decal shall be three inches (3.0") per side.

The adhesive protective liner on sheeting intended for fabrication of individual decals shall be scored at or near the center of each sticker for easy removal.

1.2 Registration Control Number

Decals shall be manufactured in pairs. Each pair shall have identical control numbers and must be easily separated from the backing material.

Each pair of decals shall be printed with control numbers running consecutively as shown in the table below. The control number shall be printed with "Scotchlite" brand process color No. 200 (black) or a material of equal quality. Design and size of control numbers to be approved by the user. (See example illustration, Sample Item No. 1).

1.3 Quantity

Month	Beginning Registration Number	Ending Registration Number	Amount (pairs)
1	F00001	F01600	1600
2	F01601	F03200	1600
3	F03201	F04900	1700
4	F04901	F06800	1900
5	F06801	F08700	1900
6	F08701	F10800	2100
7	F10801	F12900	2100
8	F12901	F14900	2000
9	F14901	F16600	1700
10	F16601	F18300	1700
11	F18301	F20100	1800
12	F20101	F22000	1900

Scope of Work

Vessel Registration and State Ramp Use Decals for 2028

2.0 Item No. 2: State Ramp Use Decal

2.1 Design, Color and Size

The size, shape and design of the decals, as well as the size and position of all printing, shall be in strict conformity with the attached sample and the following requirements.

The state ramp use decal shall have a background sheeting of "Confirm" brand security film No. 4230 (white). The border shall be reversed printed with "Scotchlite" brand transparent process color red or a material of equal quality. Finished decals must be clear coated with "Scotchlite" brand clear coat No. 260 or a material of equal quality.

All wording and numerics shall be printed with "Scotchlite" brand process color No. 200 (black) or a material of equal quality. The "month number" shall be followed by a slash, the year of the decal expiration shall be "28". Font shall be "Arial."

The dimensions of each decal shall be three inches (3.0") per side.

The adhesive protective liner on sheeting intended for fabrication of individual decals shall be scored at or near the center of each sticker for easy removal.

2.2 Ramp Control Number

Ramp decals shall be manufactured in pairs, and each pair shall have identical control numbers and must be easily separated.

Each pair of decals shall be printed with a ramp number running consecutively shown in the table below. The ramp number shall be printed with "Scotchlite" brand process color No. 200 (black) or a material of equal quality. Design and size of ramp numbers to be approved by the user. (See example illustration, Sample Item No. 2).

2.3 Quantity

Month	Beginning Ramp Number	Ending Ramp Number	Amount (pairs)
1	F30001	F31400	1400
2	F31401	F32800	1400
3	F32801	F34300	1500
4	F34301	F35900	1600
5	F35901	F37500	1600
6	F37501	F39300	1800
7	F39301	F41000	1700
8	F41001	F42600	1600
9	F42601	F44000	1400

Scope of Work
Vessel Registration and State Ramp Use Decals for 2028

10	F44001	F45400	1400
11	F45401	F46800	1400
12	F46801	F48300	1500

C. APPLICATION INSTRUCTION

Application instructions shall be printed on the back of each pair of decals. See attached samples for printing of application instructions.

D. RESPONSIBILITY

The successful bidder shall furnish all inks, clear coating, and thinners needed to produce decals that meet the requirements of this Scope of Work. The successful bidder must be able to provide art services as necessary, including editing or modifying the decals to meet the wording, numeric, and design specifications herein. Any modifications, substitutions, or deviations from the approved design(s) must receive prior written approval from DOBOR.

E. SECURITY MEASURES

The successful bidder shall provide adequate security methods and supervision to protect decals from hazards or loss. The successful bidder may be required to submit a complete description of plant security precautions upon demand by the State. The State reserves the right to enter the vendor's premises at any time during the production of decals to inspect the progress of production, the quality of workmanship, and the adequacy of security.

F. WORKMANSHIP

All workmanship shall be first class and done in accordance with generally accepted decal manufacturing standards.

G. WARRANTY

The decal manufacturer shall certify that all decals furnished conform to the specifications herein. The decal manufacturer shall replace all defective decals without further expense to the State.

H. PACKAGING

Decals shall be packaged in such a manner as to prevent sticking or damaging of printed surface while in transit or in storage. The vendor may use standard commercial packaging methods and may split the order into multiple separate packages at its discretion, provided that the products are delivered in satisfactory condition and are suitable for storage and distribution by DOBOR.

Scope of Work

Vessel Registration and State Ramp Use Decals for 2028

I. DELIVERY

Delivery shall be made by 4:00pm within thirty (30) calendar days from the date indicated in the Notice to Proceed. If the delivery deadline falls on a weekend or State holiday, delivery shall be made by 4:00pm on the next business day. Delivery shall be made to:

DOBOR VRT
4 Sand Island Access Road
Honolulu, HI 96819
(808) 587-1970

If the vendor mails or ships the decals, the vendor shall be fully responsible for ensuring that delivery is made by the deadline specified above, except for extraordinary circumstances out of the vendor's control that leads to a delivery delay.

J. PAYMENT

Payment shall be made in one lump sum to successful bidder after delivery in full. It shall be understood that the winning bid amount includes costs of labor, materials, State and Federal taxes, delivery costs, and any other related costs including, but not limited to credit card processing fees. Payment shall not be greater than the winning bid amount, except where required by law.

K. GUARANTEE

The vendor shall submit a statement guaranteeing that the decals he furnished will be free of any defective material or workmanship for a period of 12 months from the date of delivery. The vendor shall further agree to furnish, at no cost to the State, labor and materials for replacement decals in which defects appear within the guarantee period.

L. NOTES

- The successful bidder shall be in compliance with the Hawaii Compliance Express (HCE) at the time of award.
- Electronic artwork files, logos, and design specifications for imprints will be provided to the successful bidder in pdf or jpeg file format, or other suitable electronic file formats available to DOBOR.
- The point of contact for this project shall be:
Nikki Ajifu
Nikki.FN.Ajifu@hawaii.gov
(808) 587-0158

Scope of Work

Vessel Registration and State Ramp Use Decals for 2028

Sample Item No. 1

Vessel Registration Decal

NOTE: COLOR, EXPIRATION DATE, AND CONTROL NUMBER SHOWN IN
SAMPLE MAY DIFFER FROM REQUIREMENTS IN SCOPE OF WORK
MAY NOT BE TO SCALE

(Front)



(Back)

HOW TO APPLY		WHERE TO APPLY
REFLECTIVE	READ APPLICATION INSTRUCTIONS CAREFULLY BEFORE APPLYING	1. AFFIX ONE STICKER TO EACH SIDE OF VESSEL 3" AFT OF (TOWARD THE STERN) AND IN LINE WITH THE REGISTRATION NUMBERS AS ILLUSTRATED BELOW. 2. THE 3" STICKER MAY BE USED AS A MEASURING DEVICE TO DETERMINE THE PROPER DISTANCE. ☐ HA 10 B STARBOARD SIDE HA 10 B ☐ PORT SIDE

Scope of Work
Vessel Registration and State Ramp Use Decals for 2028

Sample Item No. 2
State Ramp Use Decal

**NOTE: COLOR, EXPIRATION DATE, AND CONTROL NUMBER SHOWN IN
SAMPLE MAY DIFFER FROM REQUIREMENTS IN SCOPE OF WORK
MAY NOT BE TO SCALE**

(Front)



(Back)

HOW TO APPLY	
REFLECTIVE	READ APPLICATION INSTRUCTIONS CAREFULLY BEFORE APPLYING
1. Be sure surface where sticker is to be mounted is clean. 2. Peel off protective backing paper. 3. Position sticker and squeegee down firmly.	
PLACE ON EITHER SIDE OF	
TRAILER TONGUE OR WINCH SUPPORT	