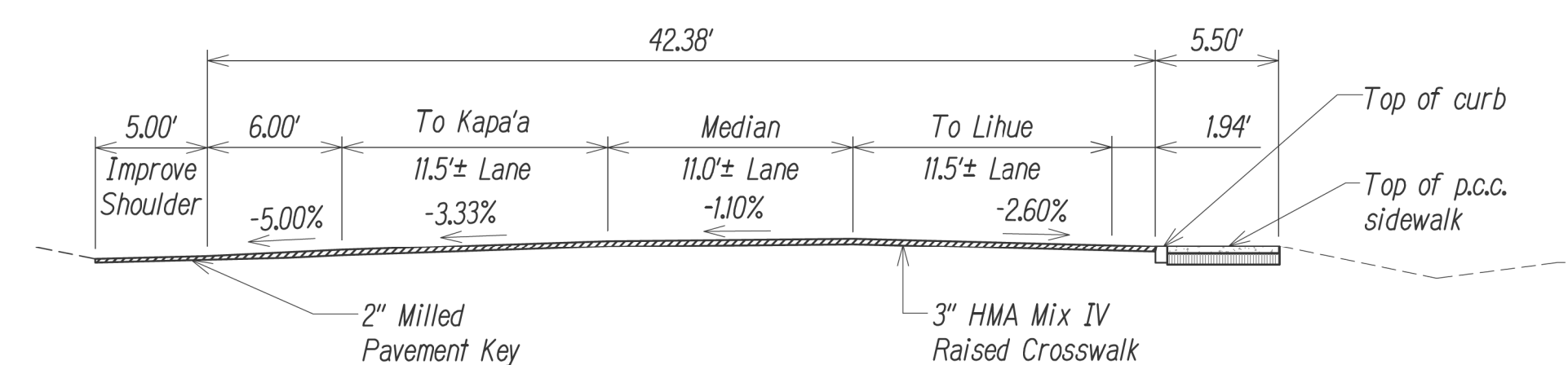
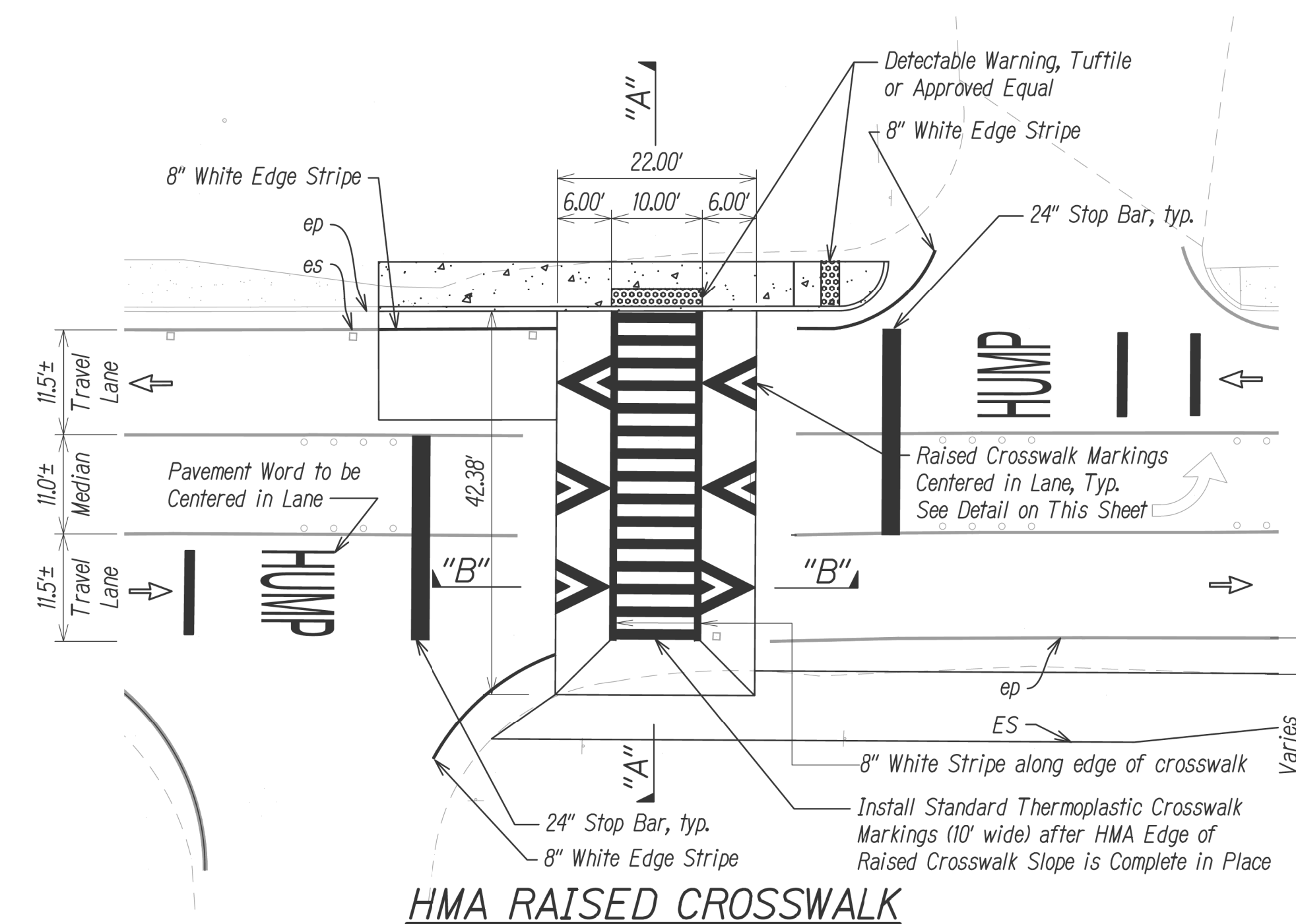
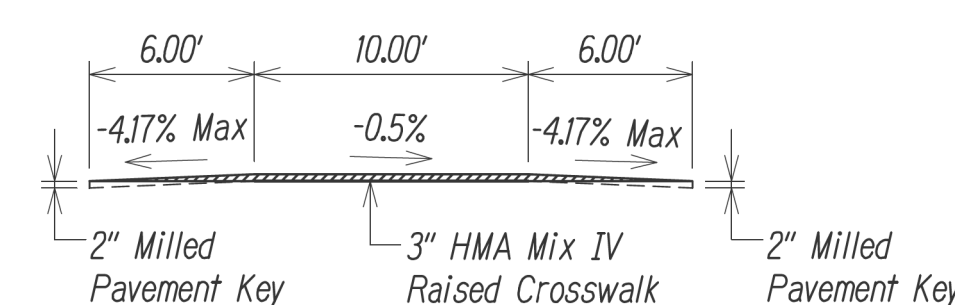


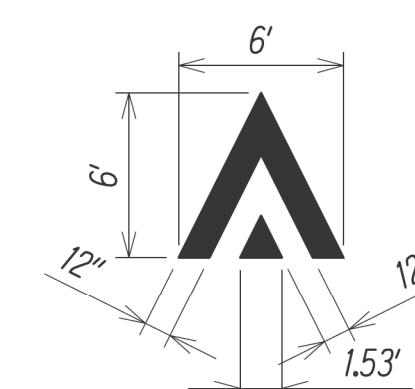
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.		2023	9	12



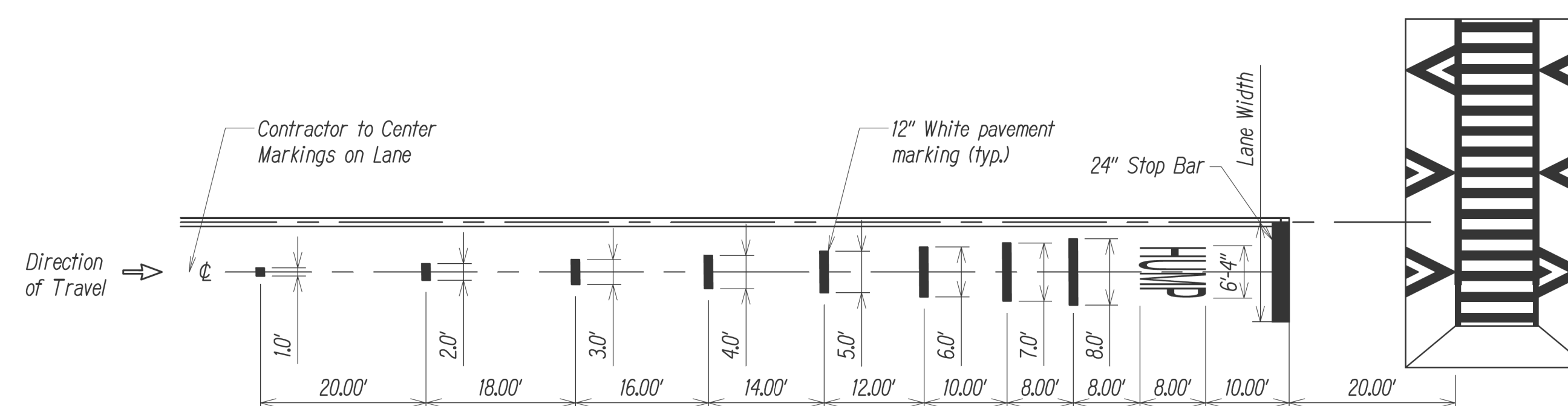
SECTION "A-A"
HMA RAISED CROSSWALK



SECTION "B-B"
HMA RAISED CROSSWALK

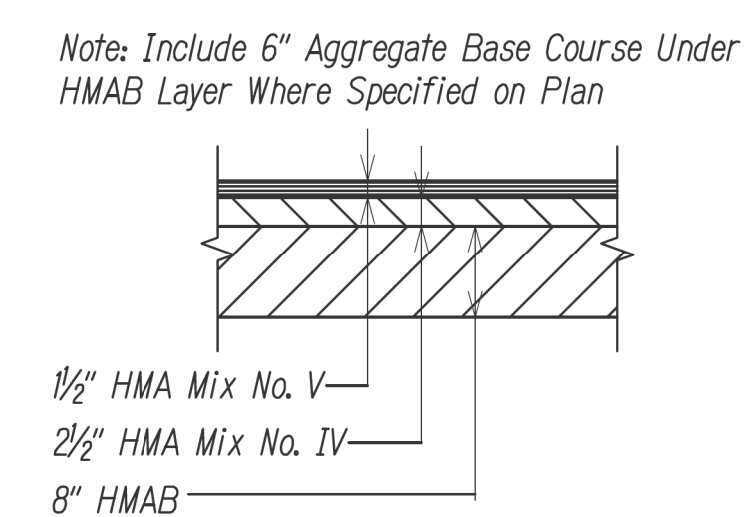


RAISED CROSSWALK MARKINGS



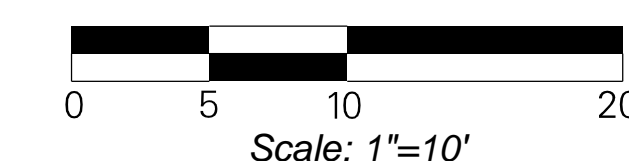
SPEED HUMP ADVANCE WARNING MARKINGS DETAIL

KUHIO HIGHWAY BETWEEN KALOLOKU RD & AKOA RD DETAILS



AC PAVEMENT SECTION

ORIGINAL PLAN	SURVEY PLOTTED BY _____	DATE _____
NOTE BOOK	DRAWN BY χ _____	_____
	TRACED BY _____	_____
	DESIGNED BY χ _____	_____
	QUANTITIES BY _____	_____
No. _____	CHECKED BY _____	_____



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

MISCELLANEOUS DETAIL

KUHIO HIGHWAY RAISED CROSSWALK
Vicinity of Kaloloku Road

Not to Scale Date: August 2022

SHEET No. 1 OF 3 SHEETS

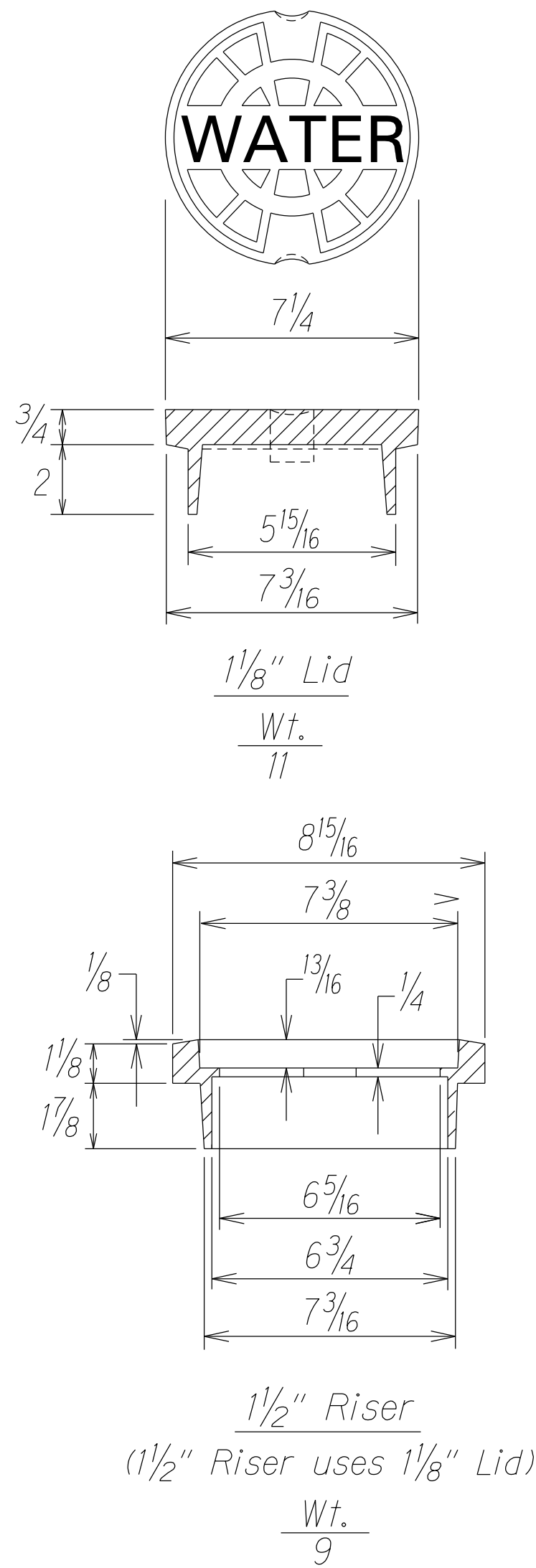
WATER CONSTRUCTION NOTES

- Unless otherwise specified, all materials and construction of water facilities and appurtenances shall be in accordance with the "Water System Standards, 2002" as adopted by the Department of Water, County of Kauai, including all subsequent ammendments and additions.
- All required project submittals (materials, shop drawings, chlorination plan, etc.) shall be approved by the Department Construction Management Division before a pre-construction conference can be scheduled, once all project submittals have been approved by the Department of Water (DOW) Construction Engineer, the DOW Construction Engineer will notify the Contractor that a pre-construction conference can be arranged. The contractor shall arranged a pre-construction conference with Department of Water at least ten (10) calendar days before construction and shall notify the Department of Water at least three (3) working Days prior to start of construction.
- The Contractor shall submit the names and telephone numbers of its authorized job superintendent and at least three (3) additional persons to contact in case of an emergency during non-working hours.
- All materials (pipe, lubricants, paints, sealants, form oil, conrete admixtures, etc.) in direct contact with the potable water shall have National Sanitation Foundation (NSF) certifications. The Contractor shall submit these certifications to the Department of Water for review and approval prior to its application.
- The locations of existing water mains and appurtenances shown on the plans are approximate only. The Contractor shall verify the exact locations in the field. Excavation around existing water main shall be done by hand.
- The Contractor shall provide unobstructed access to existing hydrants, valves and water meters at all times.
- All water valves that will be abandoned in place shall be placed in the "closed" postion. Remove top section of valve box and concrete settlement slab. Fill remainder of valve box with concrete. Place backfill and repair pavement section to applicable State standards. Bckfill to finish grade in unpaved shoulder area.
- The Department of Water shall be provided twenty (20) working days for all submittal reviews from the time of submission by the Contractor.
- Existing cast iron frame and cover shall be carefully removed, cleaned and painted with approved asphaltum paint prior to installation. The Contractor shall replace any frame and cover damaged during removal. Frames and covers and valve boxes to be adjusted shall match new finish grade.
- Contractor shall install water facilities only after reaching final subgrade or higher. The Department of Water will not allow installation of any water facilities until the final subgrade layer at minimum has been achieved.

SPECIAL NOTES TO CONTRACTOR/DEVELOPER:

Certification of Completion for these water system facilities will not be issued until:

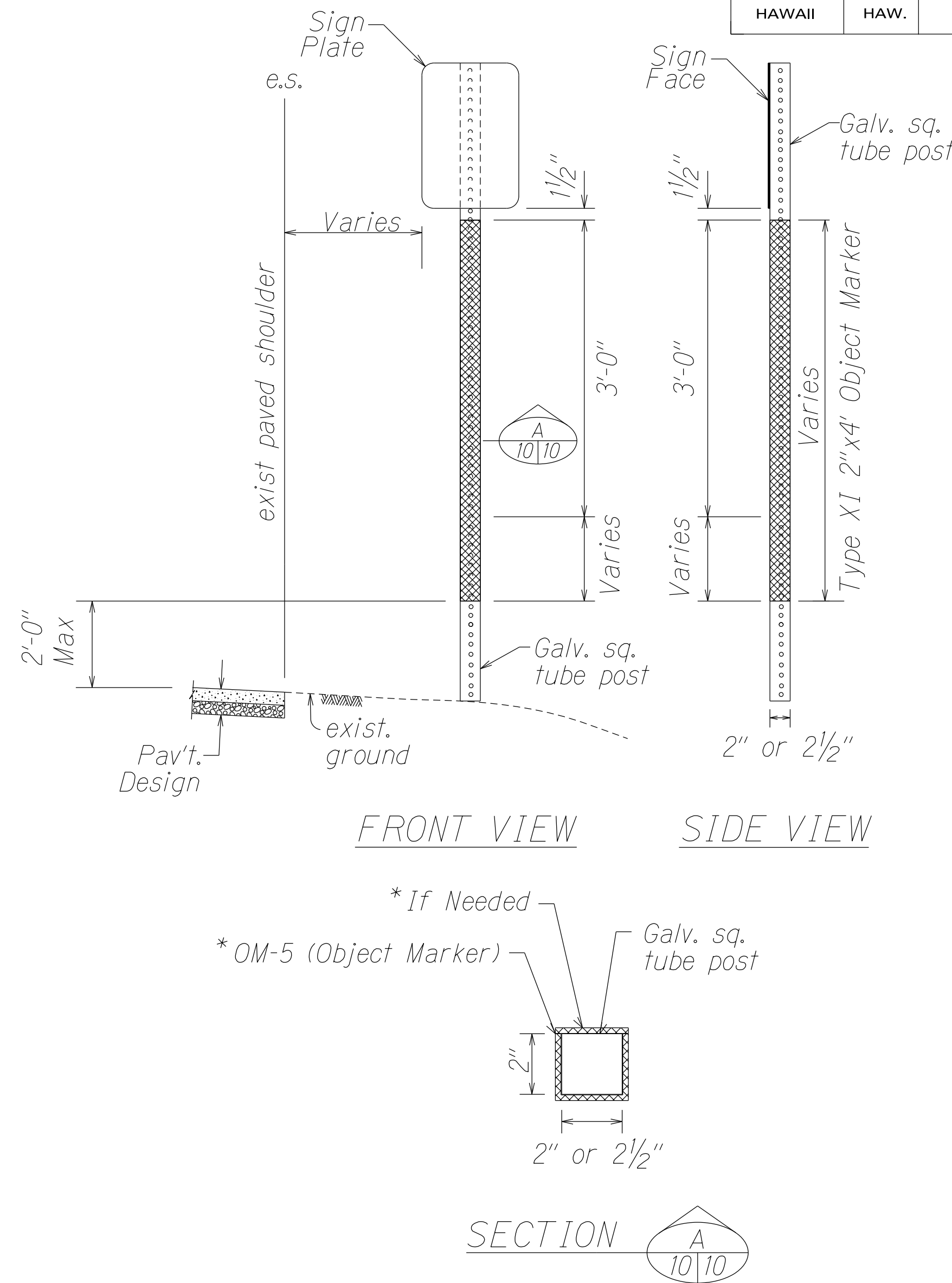
- All water improvements are complete and dedicated to the Department of Water.
- As-built drawings are submitted to the Department of Water.
- Other required conditions are completed, if applicable.



Notes:

- Tack weld cast iron riser to existing cast iron valve box.
- Height adjustment to be verified during construction.

FIXED CAST IRON RISER FOR ALL 5-1/4" SHAFT VALVE BOXES
Not to Scale



OBJECT MARKER (OM-5) DETAIL @ TRAFFIC SIGN POST
Not to Scale

OM-5 (Object Marker) Notes:

- Oblect marker (OM-5) shall be installed at proposed warning signs posts within the project limts.
- If a strip of retroreflective material is on the sign support, it shall be at least 2 inches in width, it shall be place for the full l ngth of the support from the sign to within 2 feet above the edge of roadway, and its color shall match the background color of the sign, except that the color of the strip for the "YIELD" and "DO NOT ENTER" signs shall be red.
- All red OM-5 object markers shall cover 4 sides of the sign post. All other OM-5 object marker colors shall cover 3 sides of the sign post, facing all directions.
- Background of object marker shall be retroreflectorized with Type XI retroreflective sheeting.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

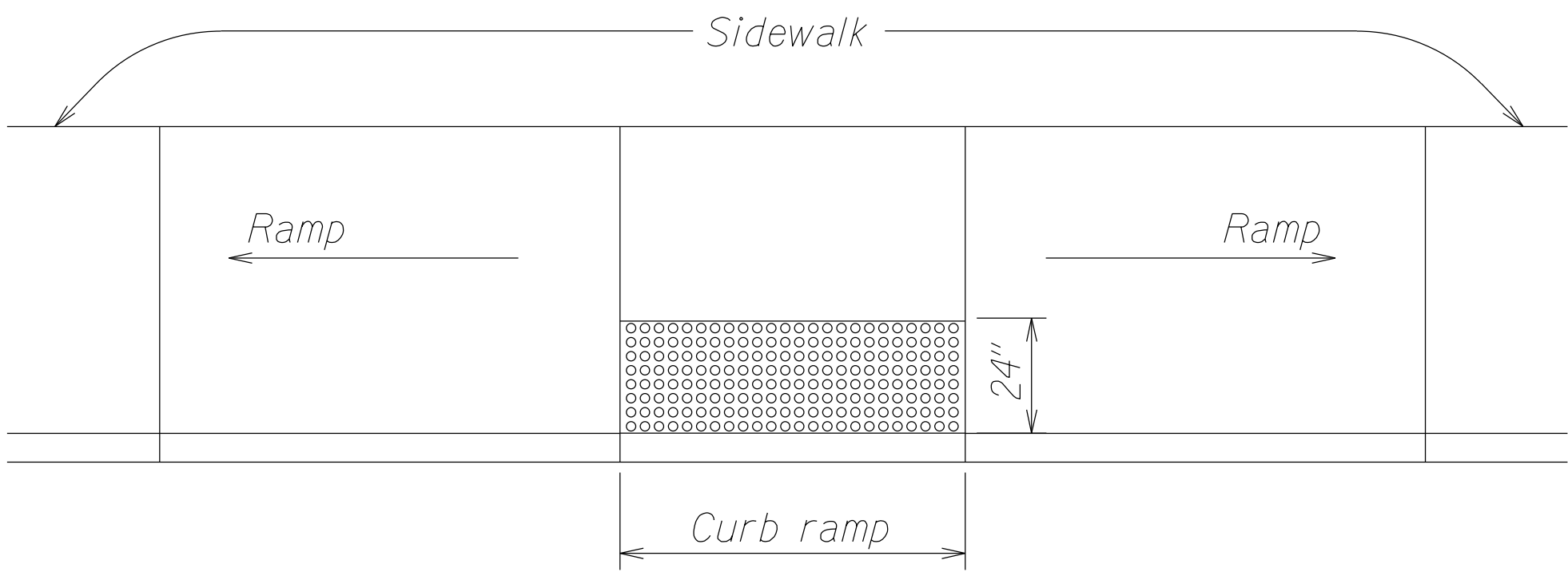
MISCELLANEOUS NOTES & DETAILS

KUHIO HIGHWAY RAISED CROSSWALK
Vicinity of Kaloloku Road

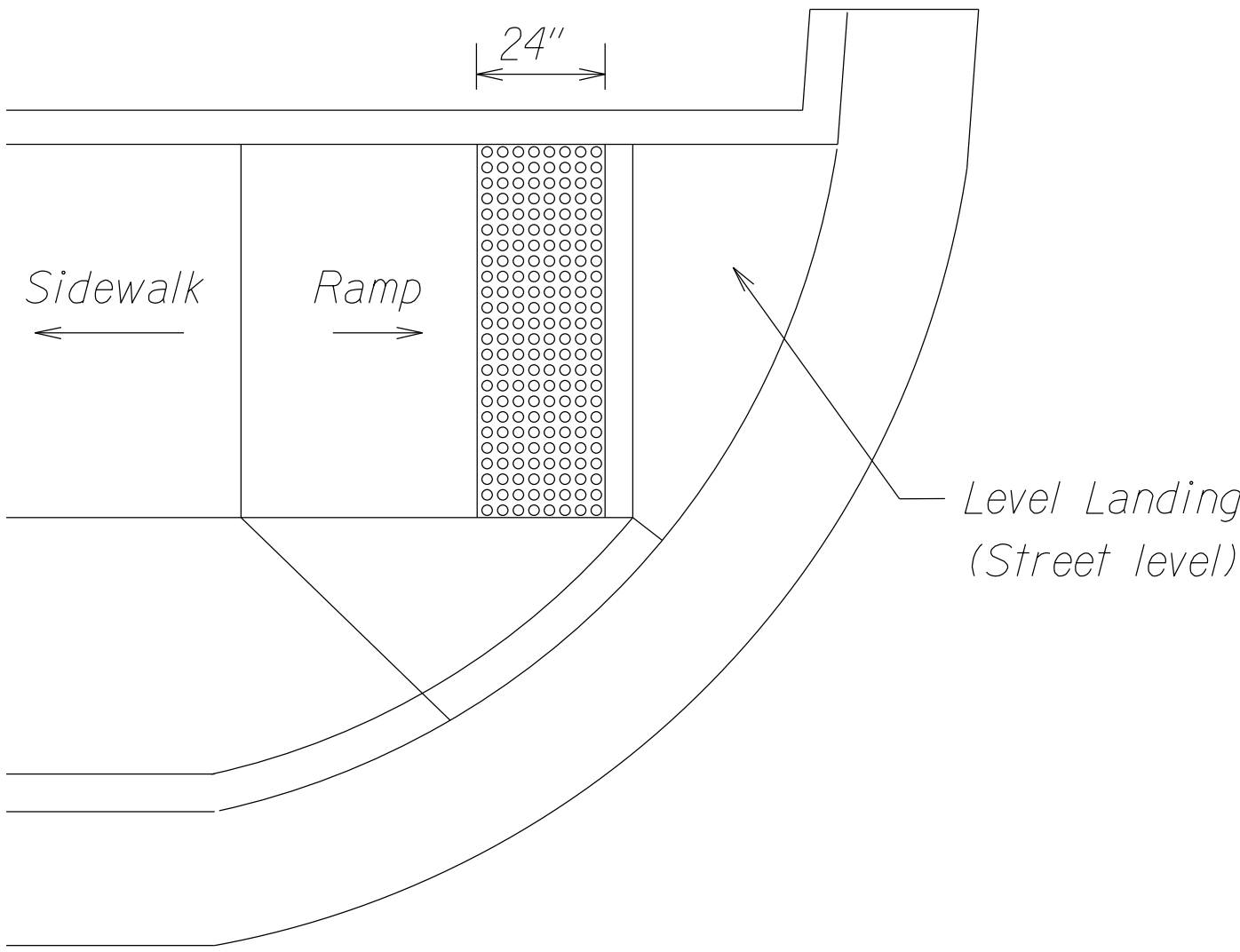
Not to Scale Date: August 2022

SHEET No. 2 OF 3 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.		2023	11	12



TRANSITION RAMP WITH DETECTABLE WARNING



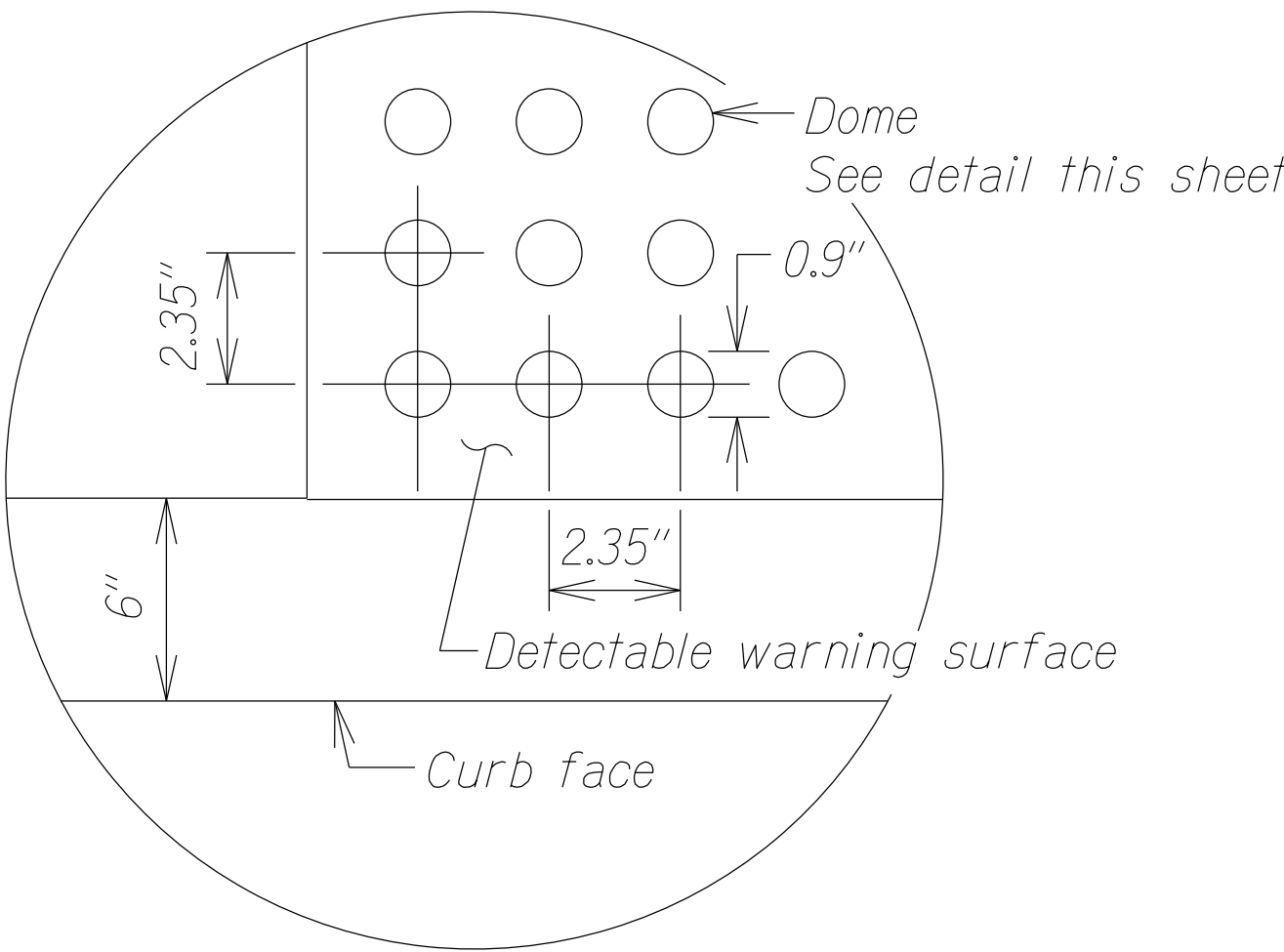
END OF SIDEWALK CURB RAMP WITH
DETECTABLE WARNING

TYPICAL INSTALLATION OF DETECTABLE WARNINGS

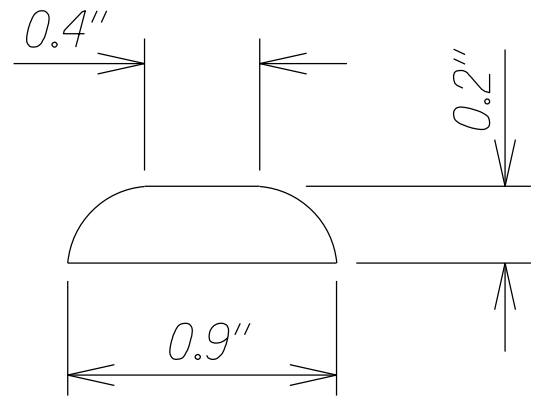
Not to Scale

NOTES:

1. Detectable warnings shall be 24 inches in the direction of travel and extend the full width of the curb ramp or flush surface (does not include flares).
2. Truncated domes shall have a diameter of 0.9 inch at the bottom, a diameter of 0.4 inch at the top, a height of 0.2 inch and a center-to-center spacing of 2.35 inches measured along one side of a square arrangement.
3. Domes shall be aligned on a square grid in the predominant direction of travel to permit wheels to roll between the domes.
4. There shall be a minimum of 70 percent contrast in light reflectance between the detectable warning and an adjoining surface, or the detectable warning shall be "safety yellow".
5. The material used to provide visual contrast shall be an integral part of the detectable warning surface.
6. The detectable warning shall be located so that the edge nearest the curb line or other potential hazard is 6 to 8 inches from the curb line.



ENLARGEMENT



DOME SECTION

DETECTABLE WARNING DETAIL

Not to Scale

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

MISCELLANEOUS DETAIL

KUHIO HIGHWAY RAISED CROSSWALK
Vicinity of Kaloloku Road

Not to ScaleDate: August 2022

SHEET No. 3 OF 3 SHEETS