



State of Maine
Department of Defense, Veterans, and Emergency Management (DVEM)
Maine Emergency Management Agency (MEMA)
Office of Dam Safety
Low Hazard Dam Inspections (Complete this form and check or circle as required)

Dam

Dam Number 286 Dam Name: Megunticook River Hazard L
Town Camden County Knox
Owner: Town of Camden Owner Contact _____ Town Manager _____
Telephone 236-7950 email _____
Address _____ LAT: 44.21049600 LON: -69.06430500 ✓

CONFIRMED

Contractor

Name MARK HYLAND Title _____
Telephone (207) 515-3959 email MARKRHYLAND@GMAIL.COM
Inspection Date 5/10/18 Report Date 5/10/18 Signed [Signature]

MEMA Action

This dam inspection & report has been done under contract to facilitate the hazard determination of LH & NJ dams in the State of Maine. This report has been read by the Maine State Dam Inspector, who, based on data in this report, has classed this dam per MRS 37B Chapter 24, Dam Safety. If assigned FS (further study) a yellow file will be opened and a H&H study will be done by the Department.

Hazard NJ LH FS File Cover B P Y Date Entered:/...../2017 Letter to Owner:/...../2017

Tony Fletcher PE
State Dam Inspector (SDI)
45 Commerce Drive, Suite #2
72 State House Station
Augusta, ME 04333-0072
Phone: 207-624-4400 Fax: 207-287-3178
Email - tony.fletcher@maine.gov

Purpose & Method

The purpose of this form is to facilitate the field inspection of 41 LH (low potential hazard) dams, located in Cumberland & Oxford Counties, Maine, for later use by MEMA. No engineering analysis of the data collected is required by the Contractor, save the measurement of the dam height & downstream road embankment conduits. The Contractor is not responsible for the hazard assessment of the dam, engineering analysis, or dam owner information.

Prior to beginning this Contract, the contractor will be briefed by MEMA, and given the following: a copy of MRS 37B Chapter 24; a deLorme Maine Atlas; a GIS map showing the # and location of all dams; a list of the dams, contact information; selected file information about the dam, pages for sketches and photographs & a page for supplementary information. This inspection form is common to all LH or NJ dams.

Before inspecting each dam, the Contractor shall review the information given to him; notify the dam owner of the intended site visit and plan its visit. The dam owner need not attend the inspection. The Contractor is not required to collect information about the Dam Owner.

Sketches of dam and road crossings need not be to scale, but should show relevant information. If further measurements is required, this will be done by MEMA. Photographs must be taken with a 1' square, vertical gage, or a rod, placed on the object so that it is in the center of the picture, and visible on the photograph. Images should be to size, & attached to the respective attachment.

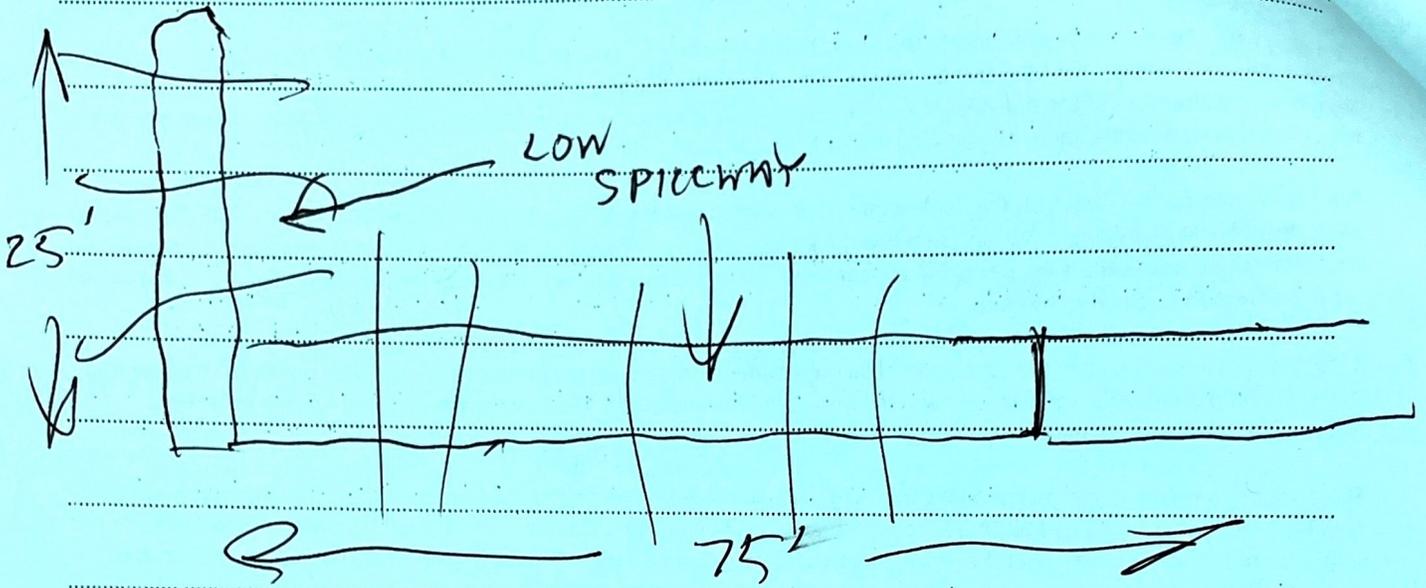
Field Inspection Data Required

- 1) **Sketch Plan of Dam;** Draw a simple plan and downstream elevation of dam, noting the left and right abutments, dam height and dam outlets. Show outlets and repairs, if seen. If possible, note defects such as seepage, leaks, deformation. Outlets are not required to be sized. Height of Dam – measure toe to top of dam (TOD) & Freeboard (WL to TOD); Use staff or tape. Compare with dam height shown on attached DEP or Corps forms & alter if wrong, then initial & date. Normal Pool (NP) storage elevation and area; Estimate from deLorme, if available. If unavailable, leave blank. Storage will be computed by MEMA.
- 2) **Photographs of Dam;** Two required. One from downstream, one of the dam from any abutment toward the dam.
- 3) **Affected Infrastructure Map;** Sketch 3 miles of river downstream from the dam before the inspection. The deLorme will be useful to determine road crossings. Show road crossings and buildings founded lower than 6' above the adjacent streambed. Buildings should be sketched on the map during the inspection. Any new development must be noted. A river profile is not required.
- 4) **Roads Crossing Downstream;** Sketch the first two road embankments crossing the river downstream from the dam. Sketch an embankment elevation from upstream, note the conduit type, size & freeboard. If the road slopes, estimate the road slope, and try to estimate where the road will overtop. Freeboard is the distance from the top of the pipe or bridge opening to the low point in the road.
- 5) **Road Embankment Photographs;** Place gage vertically, close to conduit. Take from near stream bed looking downstream. Place image of conduit in the lower center of the photograph, taken at a distance sufficient to show the top of the road.
- 6) **Supplementary Data;** List and attach additional information by Contractor.
- 7) **MEMA file Data;** Dam Owner Contact information, Inventory of Dams of the United States (USACE), DEP Dam Registration form, Map of Dam.

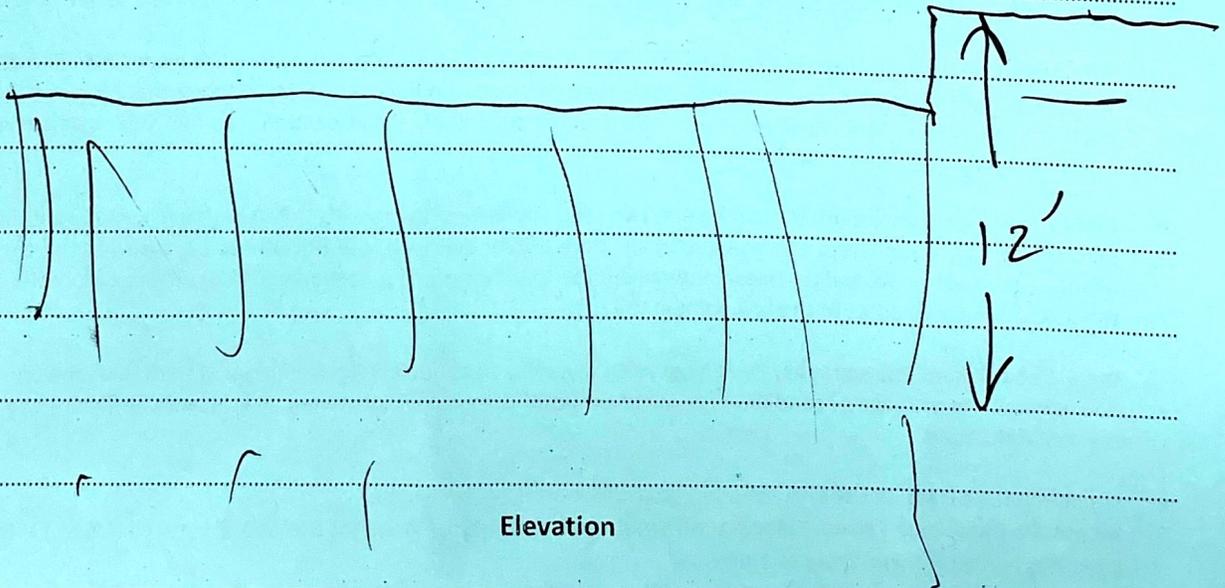
Photographs are required to be filed on the MEMA electronic database. Each inspection finding must be discussed with the SDI before being accepted.

In order to minimize distance traveled to each dam, the Contractor should plan to inspect dams in close proximity on a single inspection route from the location map provided. The Contractor shall keep a diary & mileage log of each round of inspections. Travel costs and terms of payment for mileage is under a separate agreement. The following Table is an index of work to be done. The Table allows for notes, comments and remarks for each item required.

1) Sketch Plan of Dam



Plan

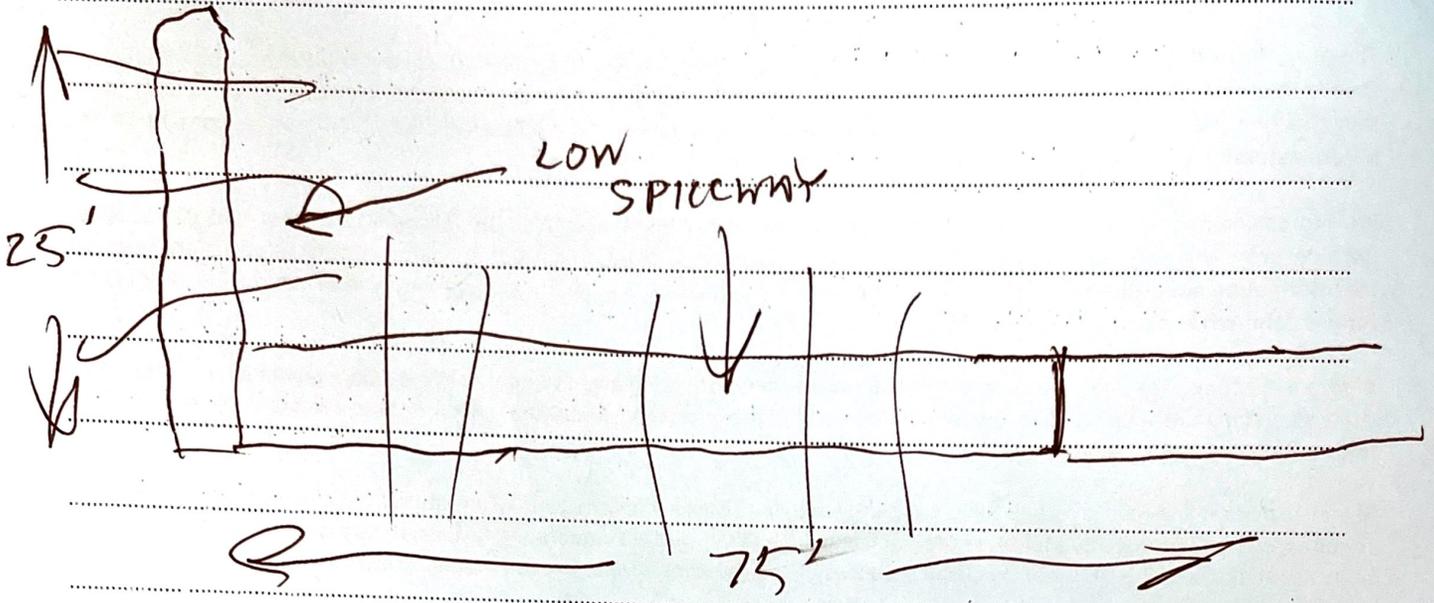


Elevation

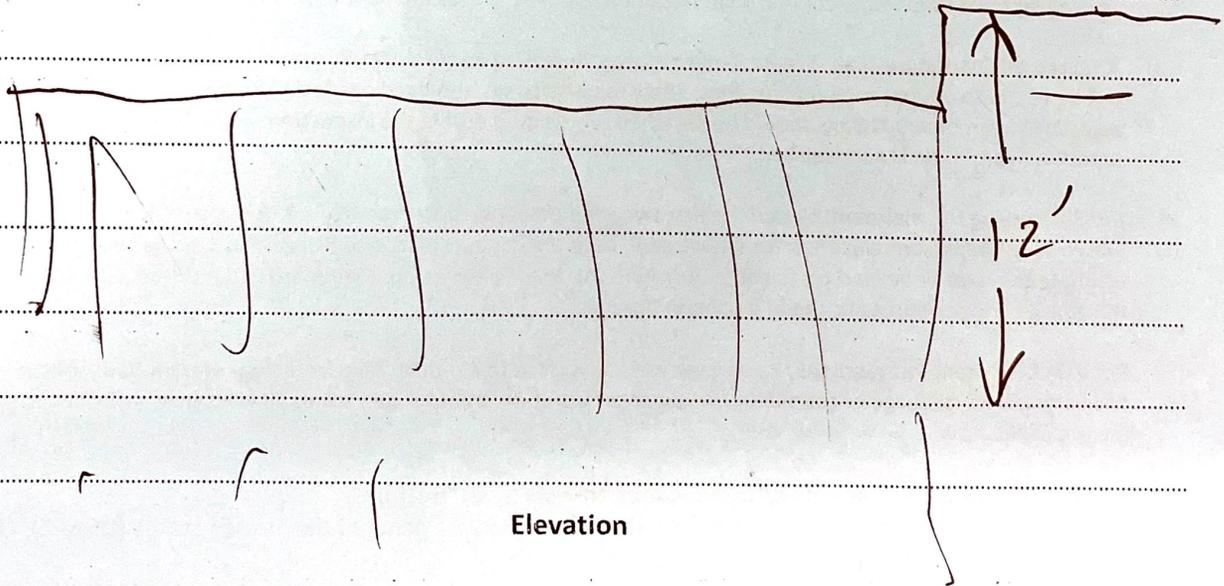
Height	3'-12'	ft	Freeboard	3'	ft	NP Area	2	acres	NP Elev		ft
Measurements											

Note: Height of dam is from the lowest point at the dam's toe to the TOD.

1) Sketch Plan of Dam



Plan



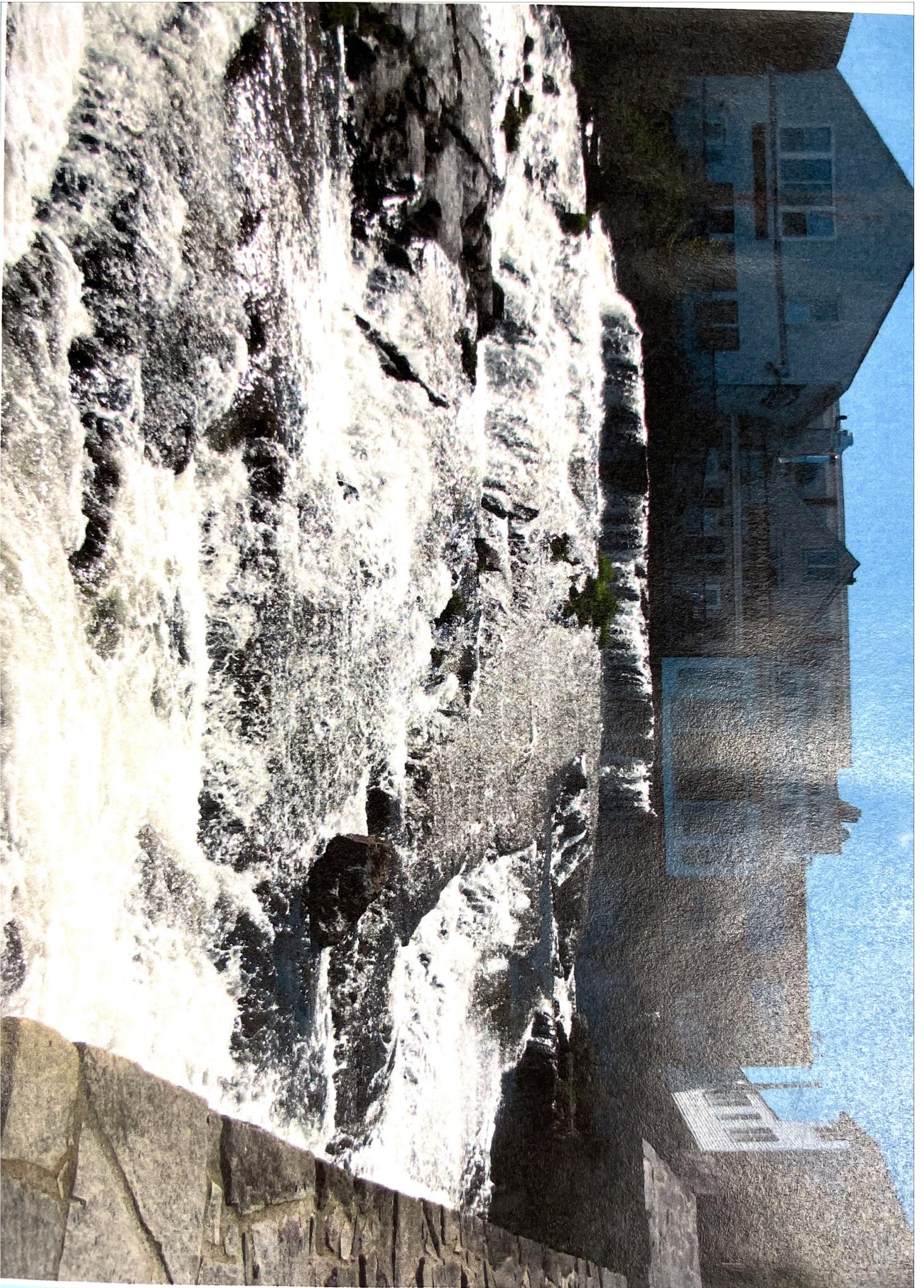
Elevation

Height $3' - 12'$ ft Freeboard $3'$ ft NP Area 2 acres NP Elev ft

Measurements

Note: Height of dam is from the lowest point at the dam's toe to the TOD.





3) Map of Downstream Roads & Houses

Sketch 3 miles of river downstream of the dam from the deLorme. Cross reference road crossings with embankment sketched and photographs on attachments 4 & 5. Show houses founded lower than 6' above & close to the adjacent streambed. Sketch additional infrastructure on the map during the inspection.

DISCHARGE DIRECT TO OCEAN
IN HARBOR

ment sketched
Sketch
ds & Houses
Page 5

4) Road & House sections

sketch first two road embankments crossing the downstream of the dam. Sketch each road embankment elevation from upstream. Show conduit type, size & freeboard. If the road slopes, estimate the road slope, and try to show where the road will overtop. Freeboard is the distance from the low point of the road to the top of the conduit opening.

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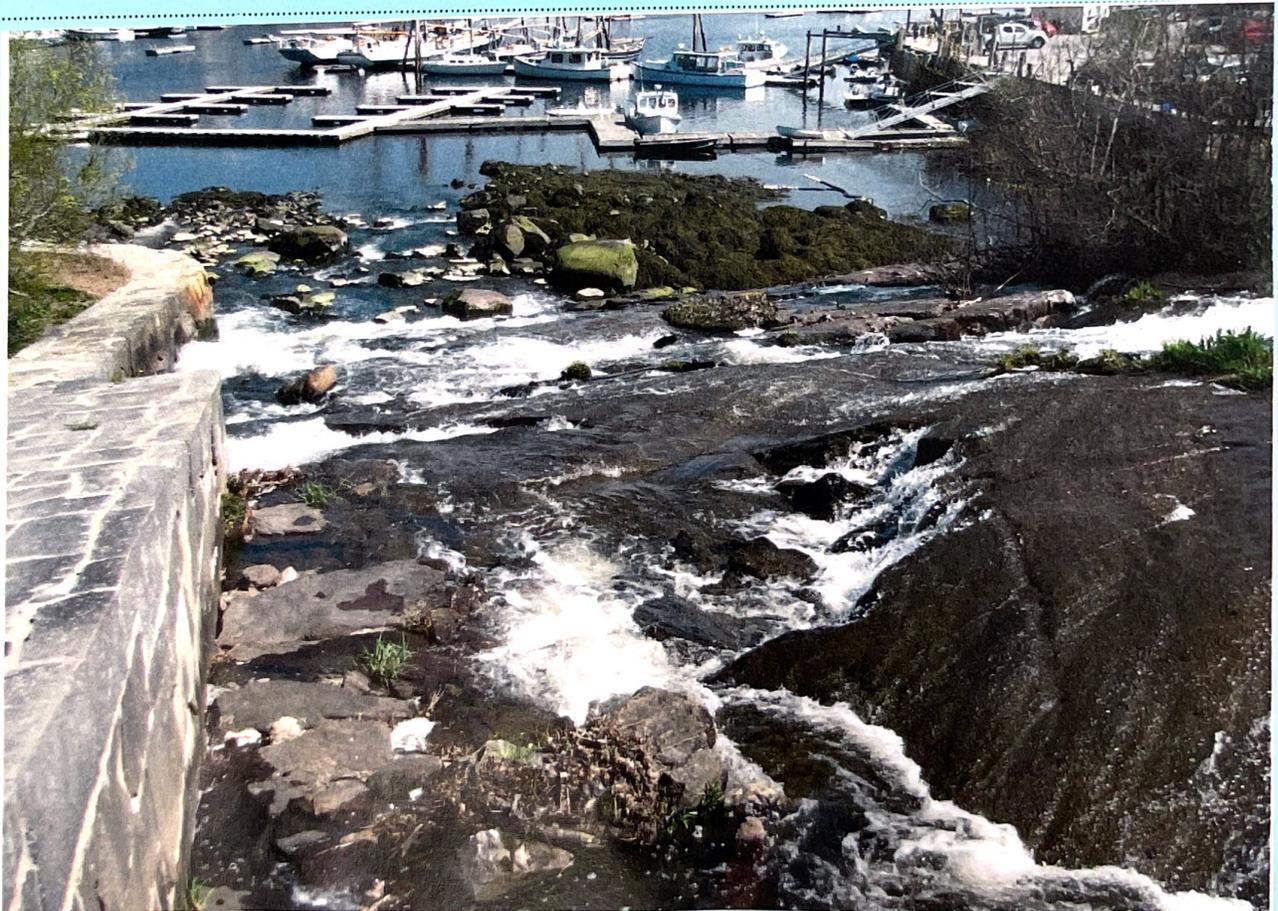
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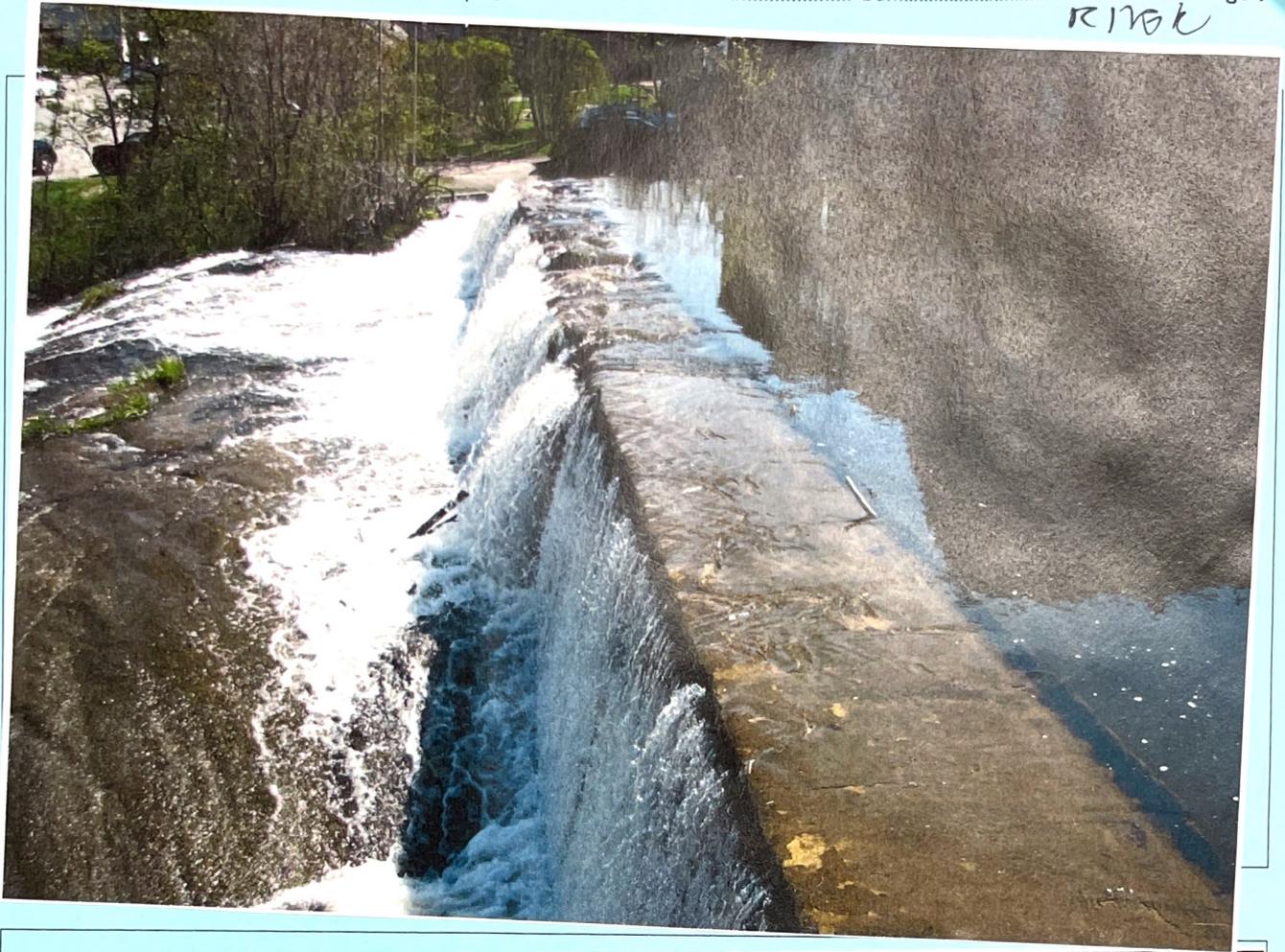
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DISCHARGE TO OCEAN



SPILLWAY PROFILES

286 Dam MEADOW COOK RIVER Page 7



RIGHT
SPILLWAY

NC

6) List Supplementary Data by Contractor

If none leave blank.

DAM IS MASS GRAVITY CUT STONE DAM FOUNDED ON BEDROCK AT THE TOP OF THE FALLS ABOVE CAMDEN HARBOR, DAM FORMS A RIGHT ANGLE TO DISCHARGE IN TWO DIRECTIONS. HEIGHT OF DAM VARIES BETWEEN 3'-12'. NO STRUCTURES BELOW THE DAM AND FALLS, LOW HAZARD, RUN OF RIVER

7) MEMA File Data

Check information provided by MEMA

- 1) Dam Owner Contact information
- 2) ~~Inventory of Dams of the United States (USACE)~~
- 3) DEP Dam Registration form
- 4) Map of Dam
- 5) List Other