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The Government of the Province of British Columbia
Ministry of the Environment
Water Investigations Branch

Canada – British Columbia
Fraser River Flood Control 1968 Agreement
Project No. 3  The Township of Richmond

Contract No. 16
South Dyke Improvements
Crown Zellerbach to Steveston

CRA ENGINEERING LTD
Consulting Engineers
Vancouver, Canada
266396
NOTE
Contract No. 16
"The dyke design crest has been selected to protect against the highest tide of record, with an allowance for wave run-up and 1' for freeboard."

LIMIT OF CONTRACT

246397

PROJECT NO. 5 - THE TOWNSHIP OF RICHMONDS
CONTRACT NO. 16
GENERAL PLAN

RECOMMENDED
PROJECT MANAGER
DATE

APPROVED
DATE

DRAWN
DATE

PURCHASED
DATE

DESIGNED
DATE

DATE OF SUBMITTED

LIMIT OF CONTRACT

TO VANCOUVER

TO NEW WESTMINSTER

LULU ISLAND

SEA ISLAND

GULF
**BASE LINE DATA**

<table>
<thead>
<tr>
<th>PI</th>
<th>Bearing</th>
<th>Chaining</th>
<th>Interval</th>
<th>CO-ORDINATES</th>
<th>Width</th>
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<tr>
<td>223</td>
<td>S 40°39'51&quot; W</td>
<td>000.00</td>
<td>004.84</td>
<td>15 526.70</td>
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<td>32 209.34</td>
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**SURVEY MONUMENTS**

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<tr>
<th>MON</th>
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<tr>
<td>62A</td>
<td>PIPE IN CONCRETE</td>
<td>N 056.16 E 37 425.83</td>
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<tr>
<td>62B</td>
<td>DOT</td>
<td>N 054.40 E 37 327.77</td>
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<td>62C</td>
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<tr>
<td>62E</td>
<td>DOT</td>
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**NOTE:** For description of monuments 8 beach marks see specifications.

**LEGEND**

- Survey monuments
- 6040:024 Bench mark & Geodetic elevation
- 6040:024<br>Base line on which the bench mark is drawn is shown 6040:024<br>Section identification letter.<br><br>**NOTES**

- Elevations refer to the Geodetic Survey of Canada.
- A smooth alignment should be maintained over the entire length of the ditch.
- Offset distances from base line to center line are taken at the design crest elevation.
- The angle of offset is 90° to base line unless otherwise indicated.
- The line defined as the crest line is the river due to the location of the perk.
- Peripheral parts of the perk shall be constructed to blend with the existing ground.
NOTE

For typical dyke sections,
see 4.16.17-18.

SECTION

TYP BTWN 1518.00 TO 1521.00

Bottom of existing
pavement

top of asphalt

curb EL 1.0

Existing asphalt
curb EL 1.0

Existing dike crest

Existing gilnet rocks

Mast at existing pavement

existing boat basin

-existing short

Anacortes Curb

Grade at dike

Existing dike

-Grade to dike

End of pavement

Existing asphalt
curb

Existing pavement

Existing buildings

Scale: 1" = 10' - 0" Scale: 1" = 20' - 0"

SCALE IN FEET

Scale: 1" = 40' - 0"

SCALE IN FEET

2'-shoulder

-scale: 1" = 40' - 0"

Grade with

Excavation

To existing
pavement

Existing asphalt
pavement

NOTE

For continuation see 4.16.17-18.

DETAIL

Edge of pavement

Anacortes Curb

Existing gilnet rocks

Mast at existing pavement

Existing dike crest

Existing asphalt
curb

Grade at dike

Scale: 1" = 20' - 0"

SCALE IN FEET

NOTES

For Notes, Material Legend, Legend
see 4.16.17-18.
NOTE
Clear & strip area at end of new dyke construction
@ N.E. end of B.R. (plaque)

SOUTH ARM FRASER RIVER

SCALE IN FEET

100 200 300 400

SOUTH ARM FRASER RIVER

CLEAR AND BRUSH TO LIMIT OF CONSTRUCTION

CLEAR AND BRUSH TO LIMIT OF CONSTRUCTION

CLEAR AND BRUSH TO LIMIT OF CONSTRUCTION

INSTALL NEW 36" CULVERT

INSTALL NEW 36" CULVERT

REMOVE BUILDING

REMOVE WOODEN PILE BRIDGE & CONSTRUCT
NEW PILE BRIDGE TO SUIT DYKE WORKS

CLUSTER OF 3 TREES 8' TO 10' STANDING & FALLEN

CLUSTER OF SMALL TREES

REMOVE TIMBER,CUTTING

CLEAR AND BRUSH FROM EDGE OF ROAD

24'-9" TREE

0' 100' 200'

SOUTH ARM FRASER RIVER

SCALE IN FEET

100 200 300 400