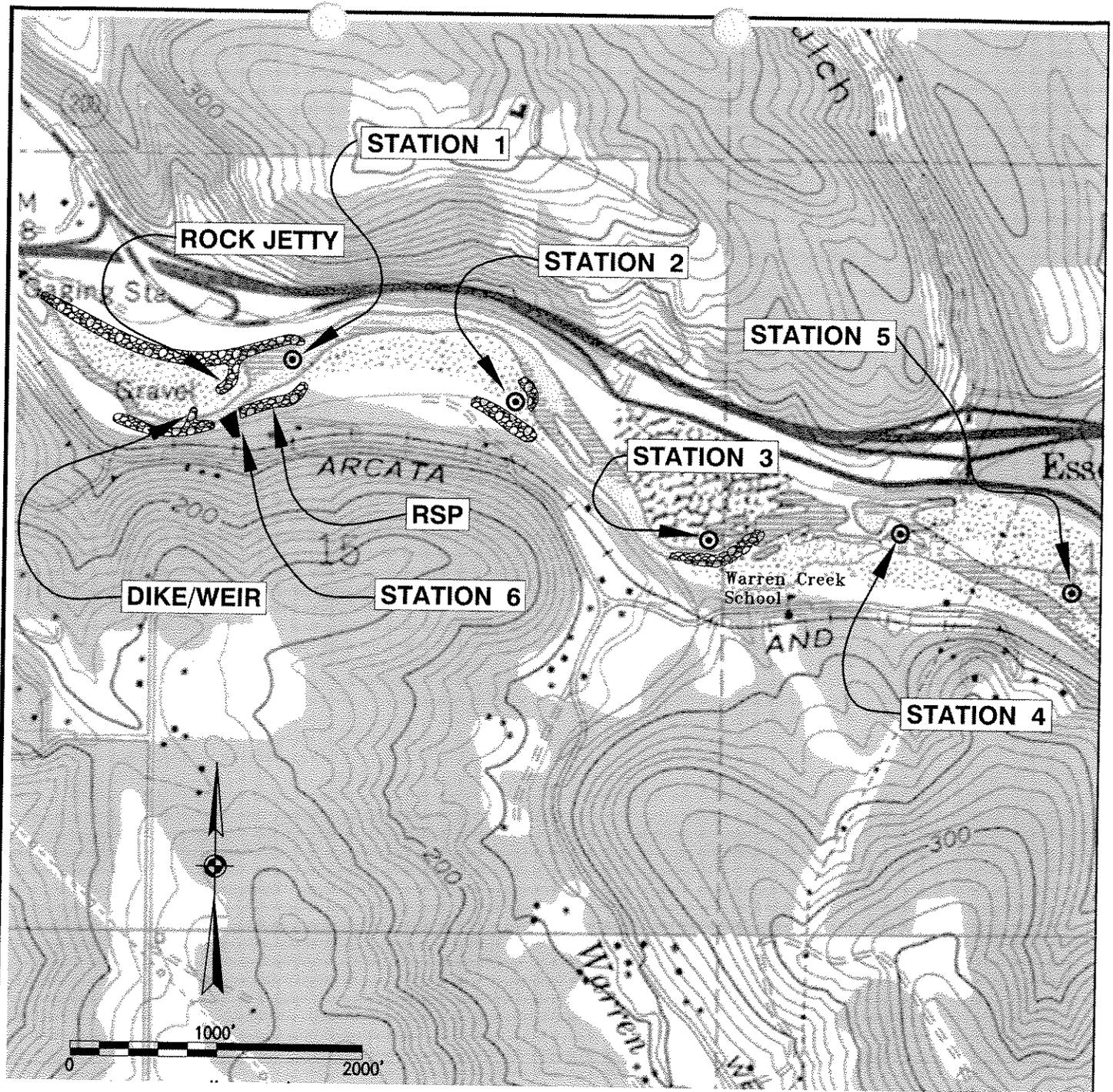




03105506\dwg\05506f02.dwg date: 02/05/04 @ 11 am



### SITE LOCATION

**PURPOSE:** Maintenance of Existing Public Water System

**DATUM** MSL

**ADJACENT PROPERTY OWNERS** See Block 24

**IN** Mad River

**AT** Essex

**COUNTY OF** Humboldt **STATE** CA

**APPLICATION BY**

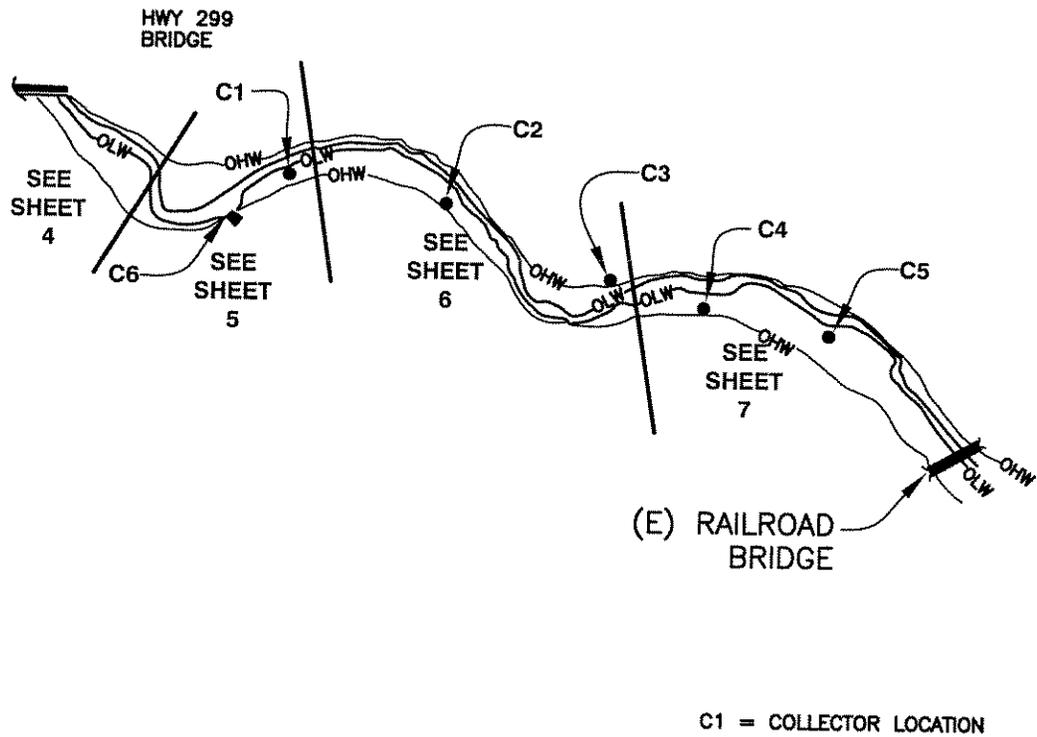
Humboldt Bay Municipal Water District

Sheet 2



WINZLER & KELLY

03105506\05506f03.dwg date: 02/05/04 @ 11 am



### PLAN VIEW OF PROJECT

**PURPOSE:** Maintenance of Existing public Water System

**DATUM** N/A

**ADJACENT PROPERTY OWNERS** See Block 24

**IN** Mad River

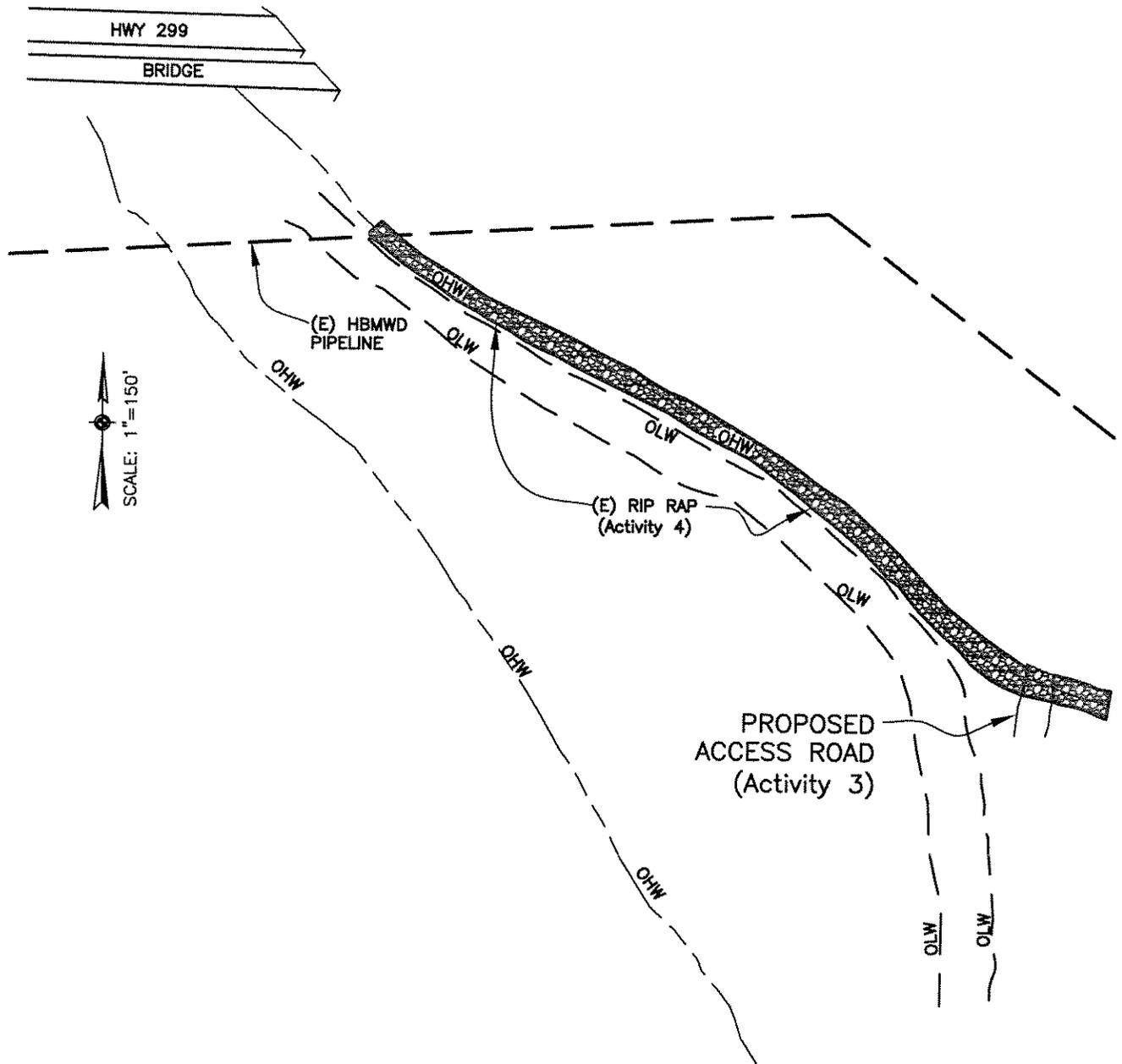
**AT** Essex

**COUNTY OF** Humboldt **STATE** CA

**APPLICATION BY**  
Humboldt Bay Municipal Water District

Sheet 3

03105506\05506f04.dwg date: 02/05/04 @ 11 am



### PLAN VIEW DOWNSTREAM OF STATION No.6

**PURPOSE:** Ramp to Provide Maintenance Access to Rip-Rap, Dike, Channel  
 Rip-Rap to Provide Permanent Bank Protection

**DATUM** N/A

**ADJACENT PROPERTY OWNERS** See Block 24

**IN** Mad River

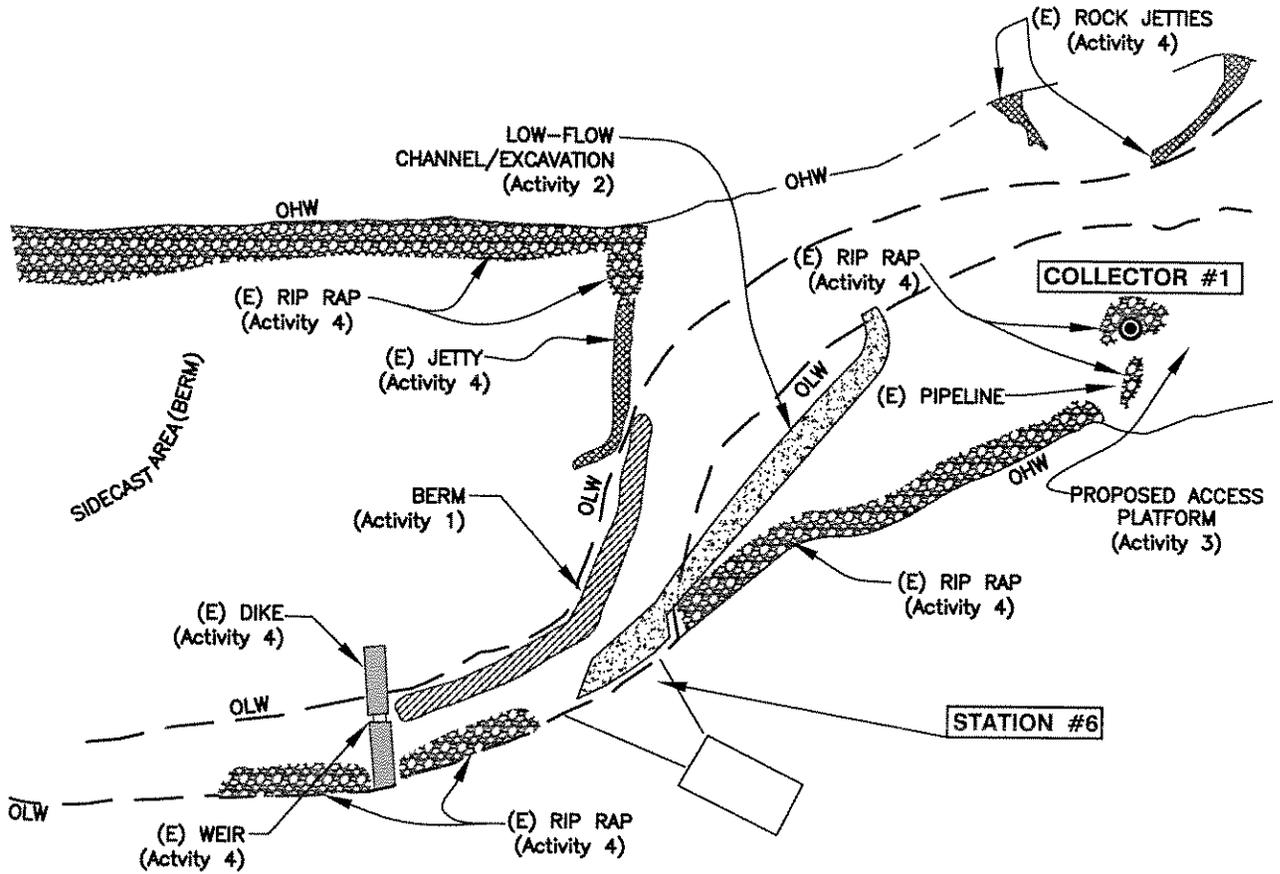
**AT** Essex

**COUNTY OF** Humboldt **STATE** CA

**APPLICATION BY**  
 Humboldt Bay Municipal Water District

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03105506\DWG\05506f05.dwg date: 02/05/04 @ 11 am



### PLAN VIEW OF STATIONS No.1 & No.6

**PURPOSE:** Maintain Proper Flow and Water Surface Elevation at Station #6

**DATUM** N/A

**ADJACENT PROPERTY OWNERS** See Block 24

**IN** Mad River

**AT** Essex

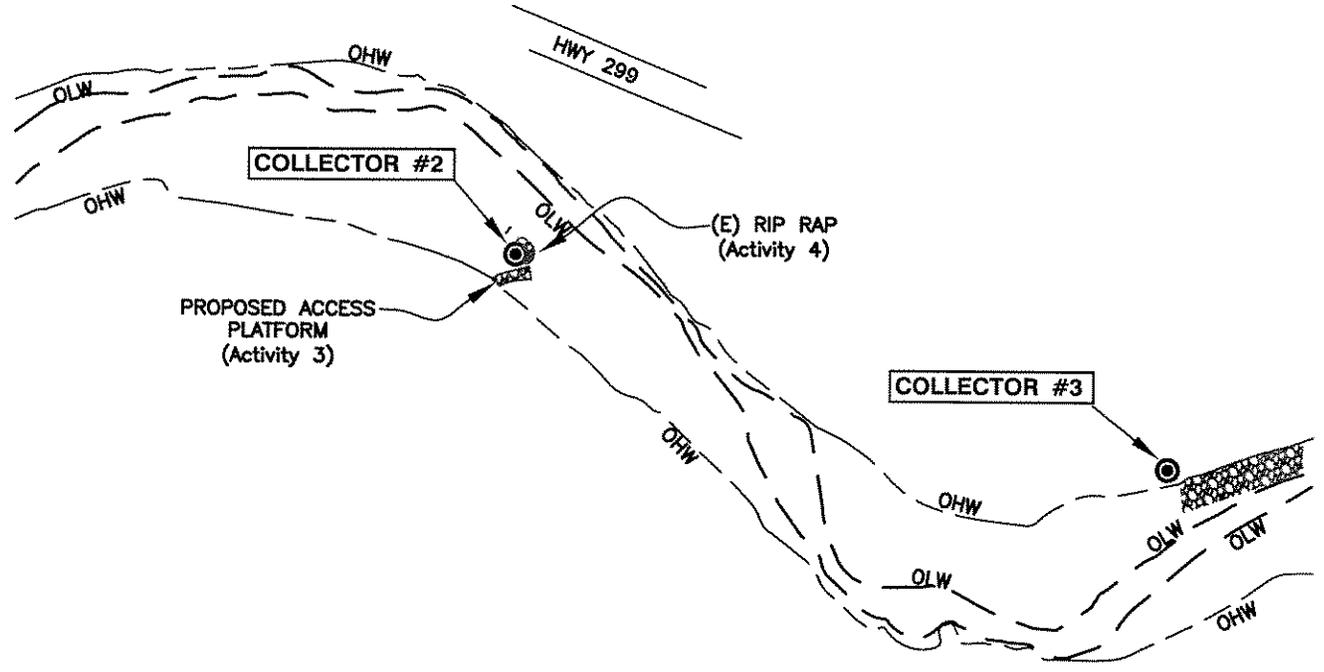
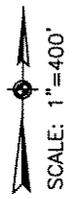
**COUNTY OF** Humboldt **STATE** CA

**APPLICATION BY**

Humboldt Bay Municipal Water District

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### PLAN VIEW OF STATIONS No.2 & No.3

**PURPOSE:** Public Water Supply

**DATUM** N/A

**ADJACENT PROPERTY OWNERS** See Block 24

**IN** Mad River

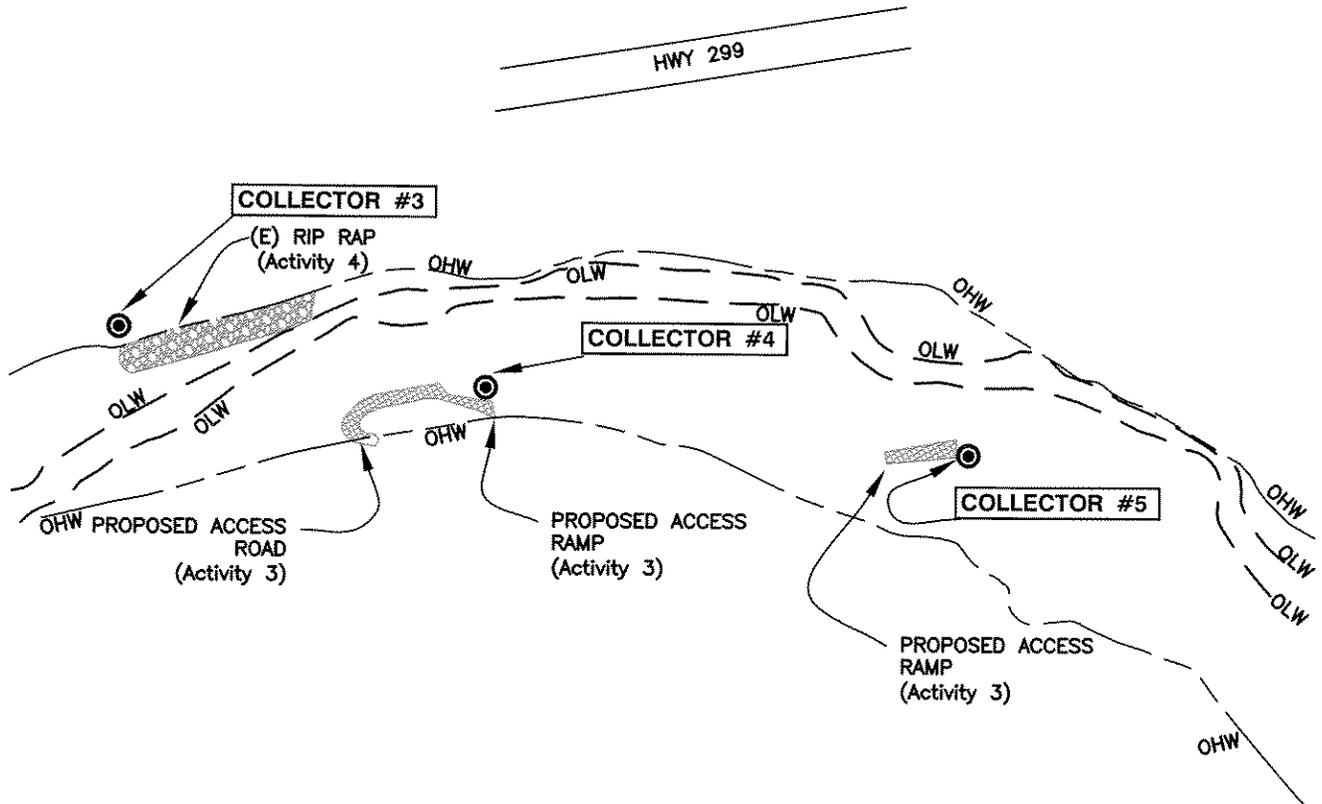
**AT** Essex

**COUNTY OF** Humboldt **STATE** CA

**APPLICATION BY**  
Humboldt Bay Municipal Water District

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### PLAN VIEW OF STATIONS No.3, No.4 & No.5

**PURPOSE:** Public Water Supply

**DATUM** N/A

**ADJACENT PROPERTY OWNERS** See Block 24

**IN** Mad River

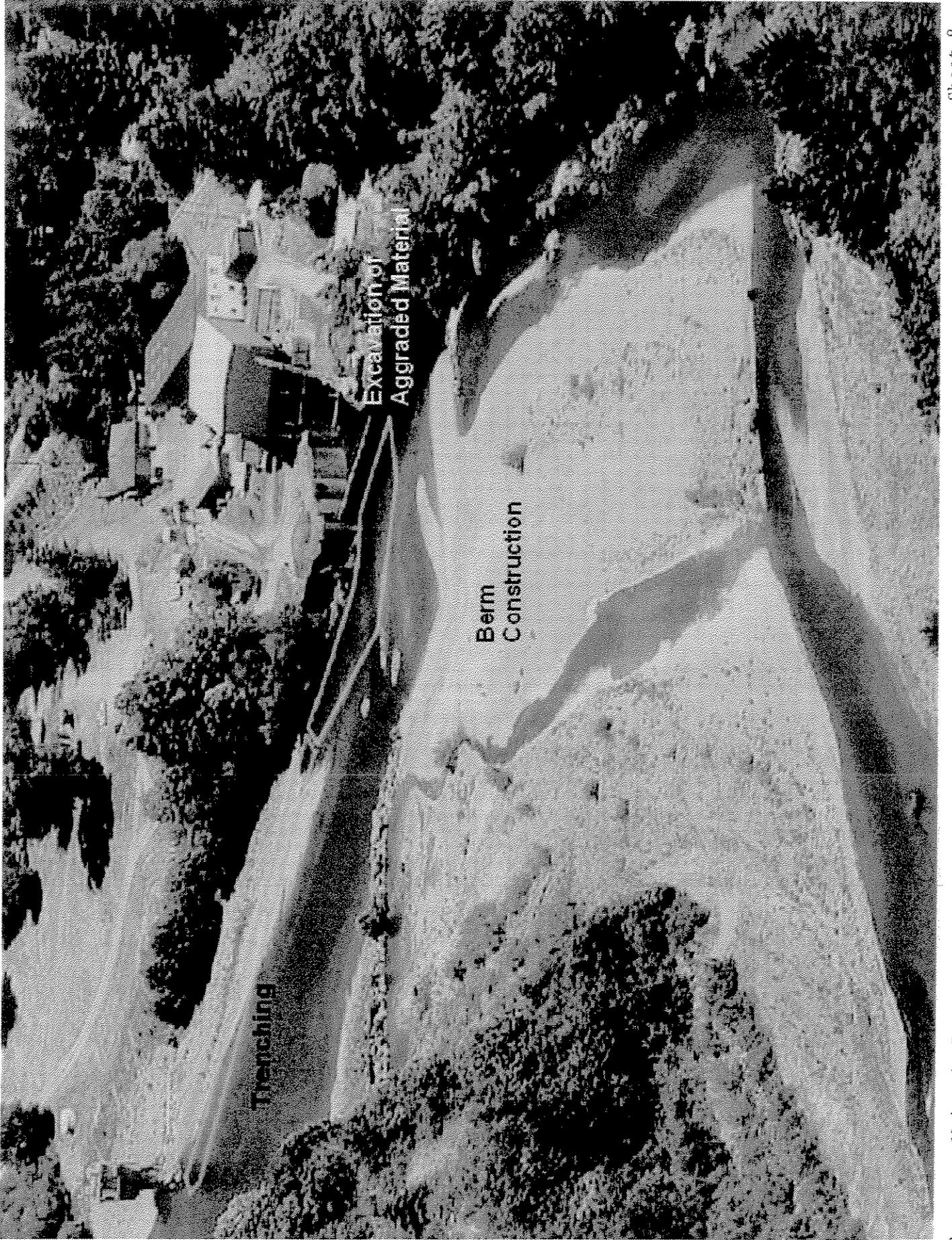
**AT** Essex

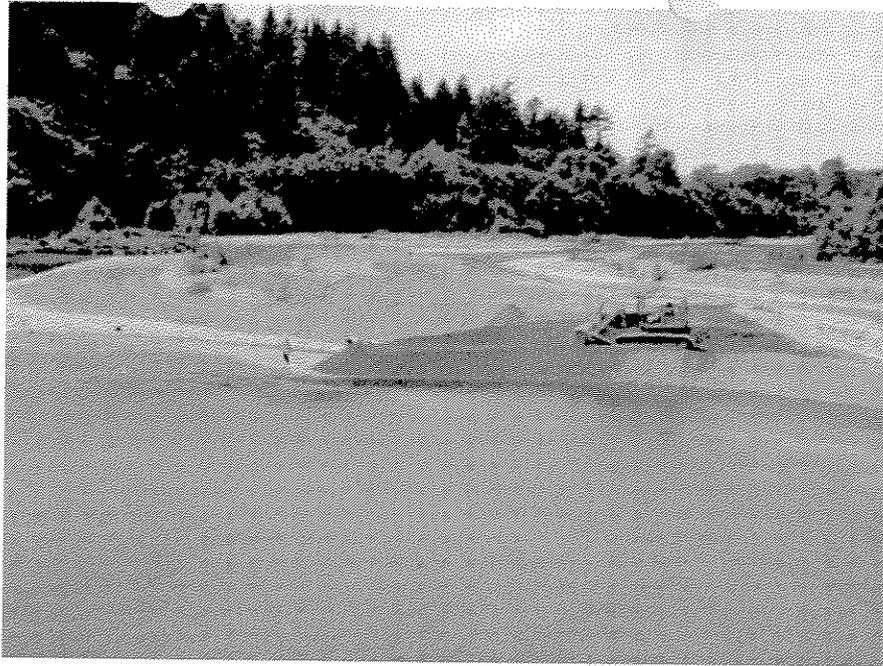
**COUNTY OF** Humboldt **STATE** CA

**APPLICATION BY**

Humboldt Bay Municipal Water District

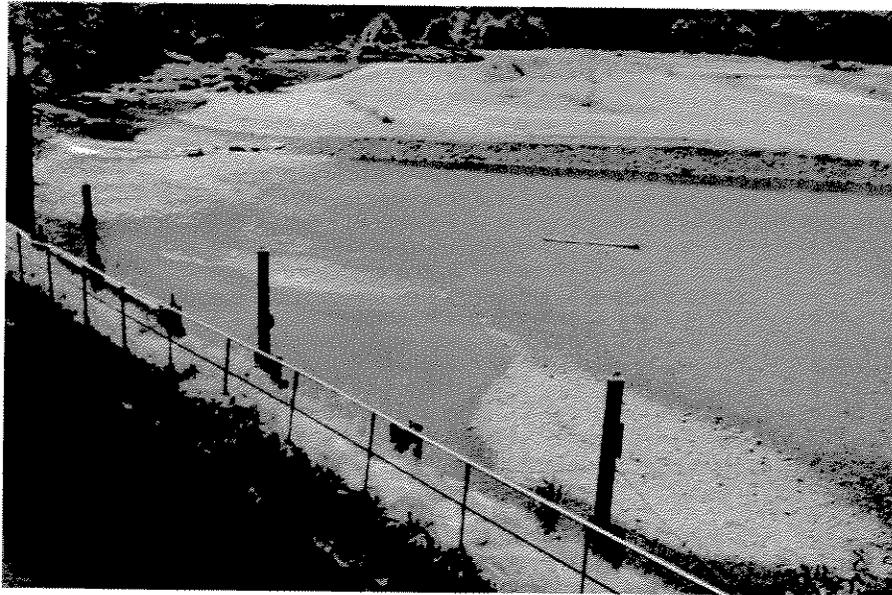
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Above: Berm During Construction (with federally-licensed biologist in the river protecting fish)

Below: Completed Berm connecting to existing rock weir (as viewed from Station 6)

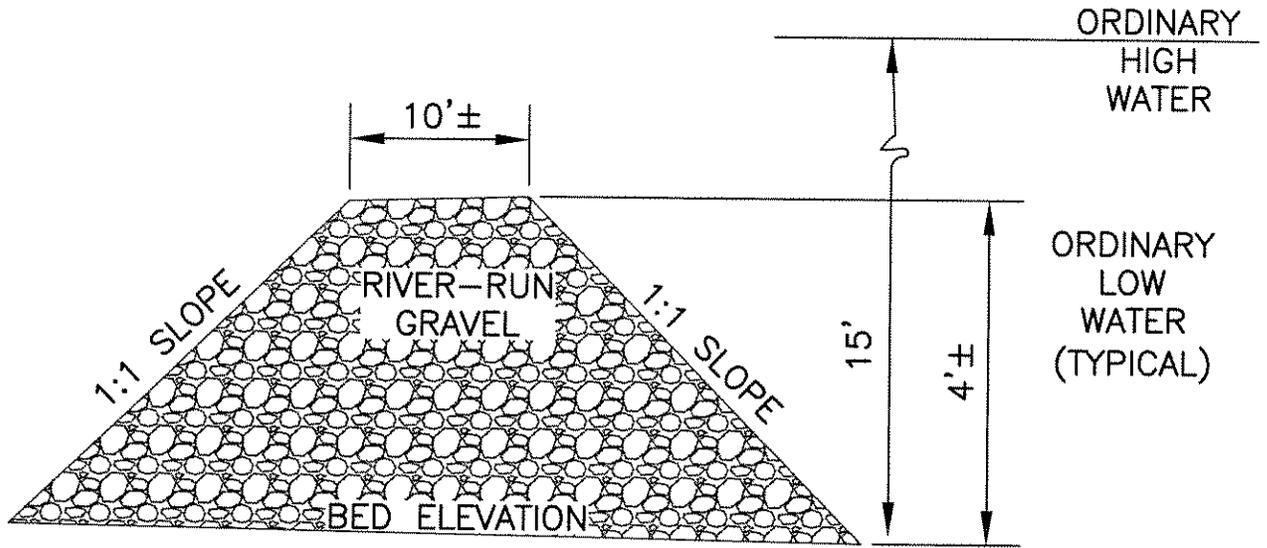


Purpose: Maintain Proper Flows to Surface Diversion Station 6

Application By: Humboldt Bay Municipal Water District

date: 02/05/04 @ 11 am

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TYPICAL CROSS SECTION OF BERM  
N.T.S.

### TYPICAL LOW-FLOW BERM (Activity 1)

**PURPOSE:** Maintain Proper Flow to Surface Diversion at Station #6

**DATUM** MSL

**ADJACENT PROPERTY OWNERS** See Block 24

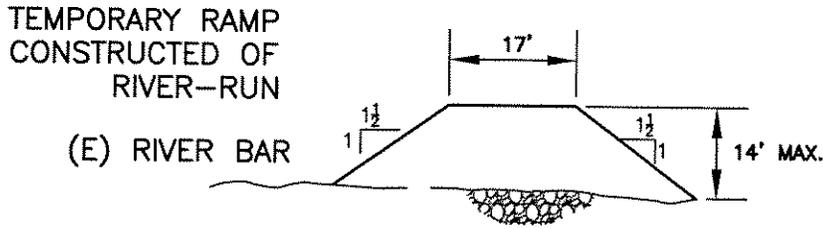
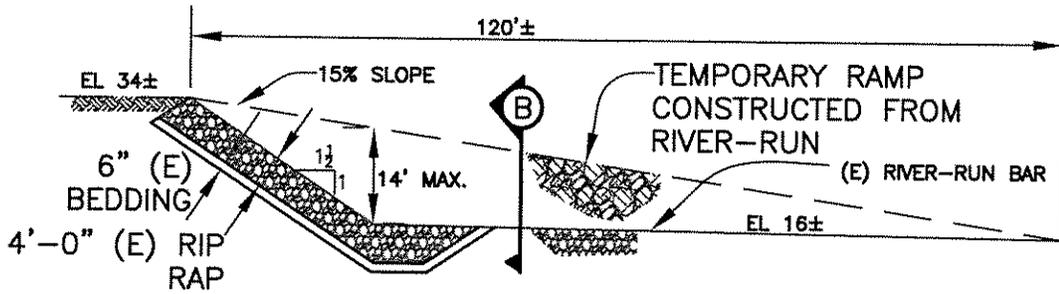
**IN** Mad River

**AT** Essex

**COUNTY OF** Humboldt **STATE** CA

**APPLICATION BY**  
Humboldt Bay Municipal Water District

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### TYPICAL SECTION ACCESS ROAD (Activity 3)

**PURPOSE:** Provide Vehicle Access to River Bed

**DATUM** NGVD

**ADJACENT PROPERTY OWNERS** See Block 24

**IN** Mad River

**AT** Essex

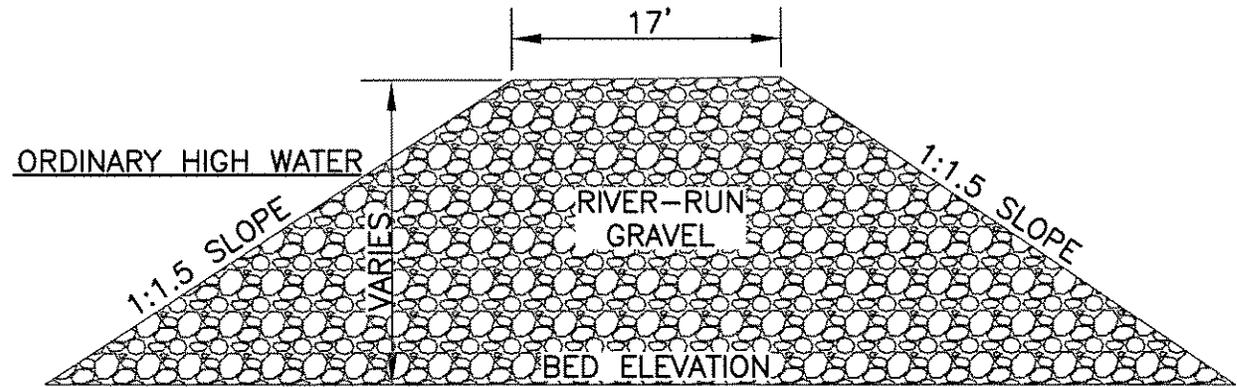
**COUNTY OF** Humboldt **STATE** CA

**APPLICATION BY**

Humboldt Bay Municipal Water District

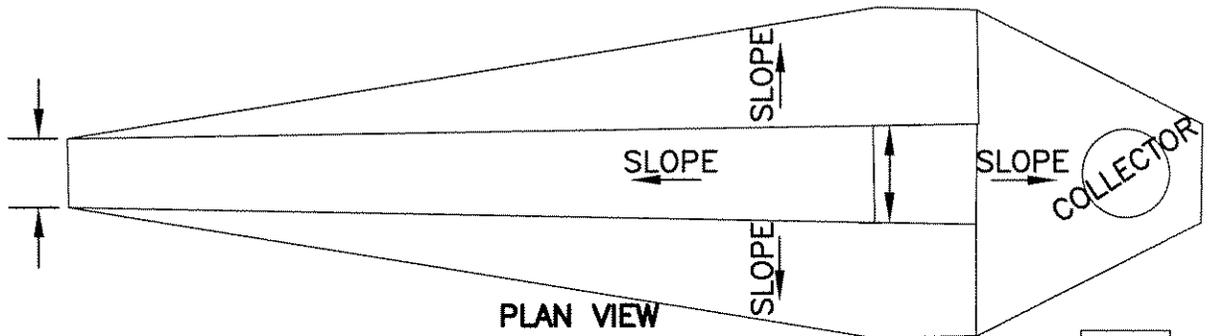
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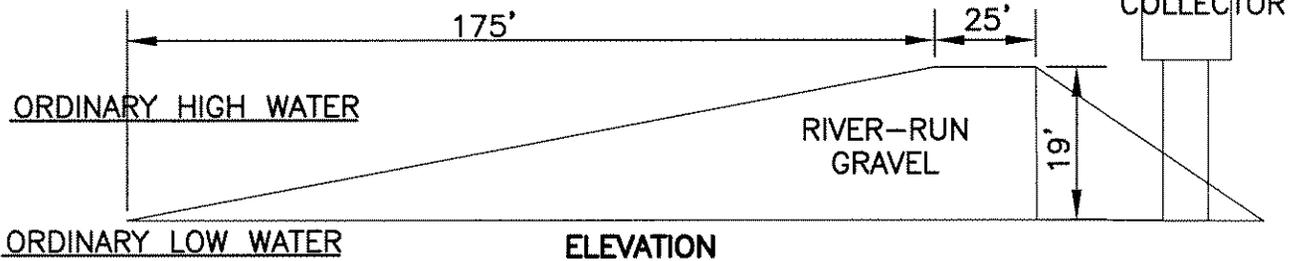


**TYPICAL CROSS-SECTION OF ACCESS RAMP**

SCALE: 1"=10'



**PLAN VIEW**



**ELEVATION**

**NOTE:**

SCALE: 1"=40'

RAMPS ARE CONSTRUCTED BY PUSHING RIVER-RUN GRAVEL FROM THE SURROUNDING RIVER BED. CONSTRUCTION OCCURS IN THE DAY, AT LOW-FLOW CONDITIONS OUTSIDE THE LOW-FLOW CHANNEL. NO EQUIPMENT IS STORED ON RIVER BED.

**TYPICAL ACCESS RAMP (Activity 3)**

**PURPOSE:** Provide Access to Maintain Collectors

**DATUM** NGVD

**ADJACENT PROPERTY OWNERS** See Block 24

**IN** Mad River

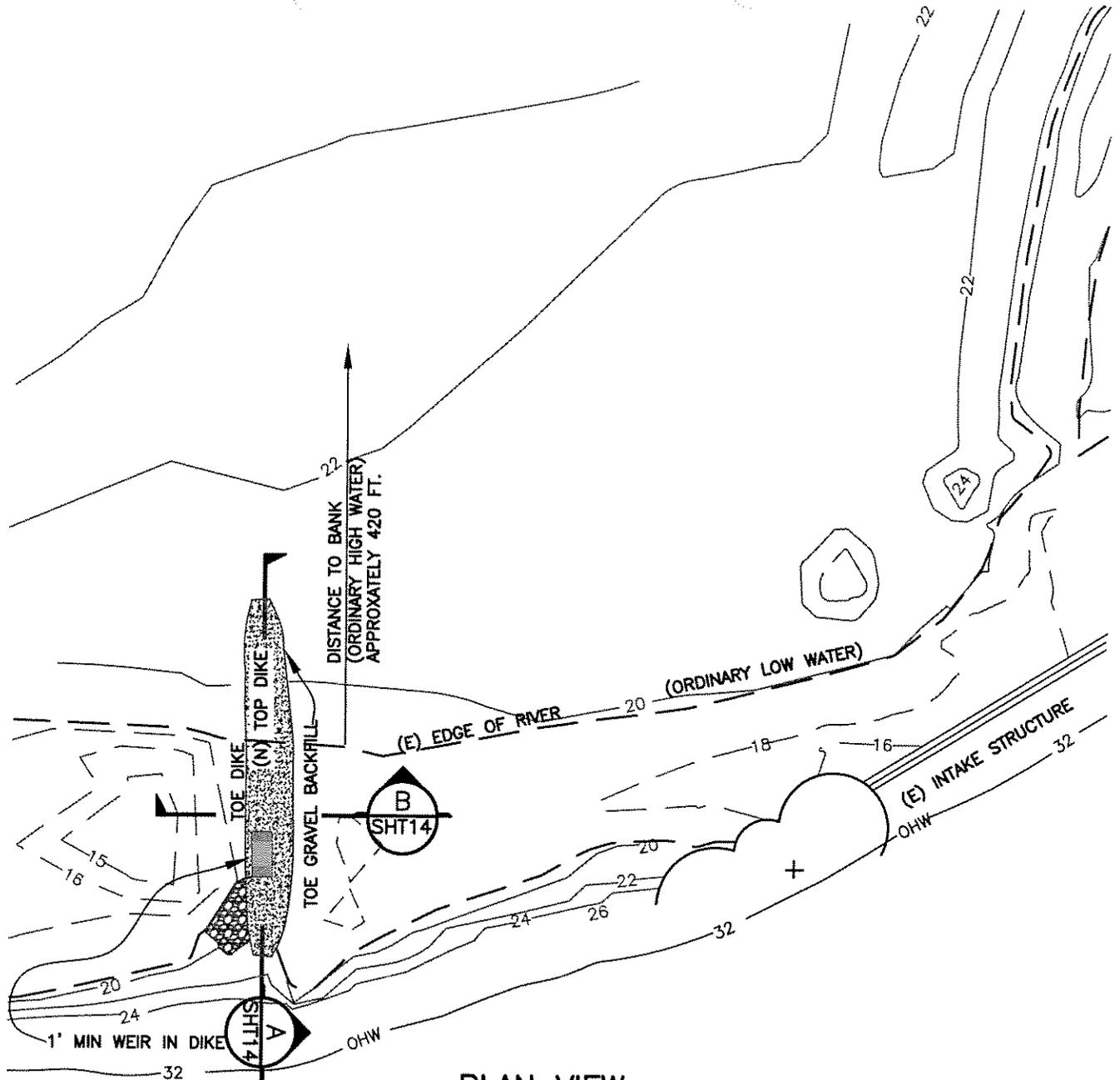
**AT** Essex

**COUNTY OF** Humboldt **STATE** CA

**APPLICATION BY**

Humboldt Bay Municipal Water District

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**PLAN VIEW**  
SCALE: 1"=±40'

**LOW FLOW CHANNEL DIKE WITH WEIR - PLAN VIEW**  
**(Activity 4)**

**PURPOSE:** Maintain Proper Flow to Surface Diversion at Station #6

**DATUM** NGVD

**ADJACENT PROPERTY OWNERS** See Block 24

**IN** Mad River

**AT** Essex

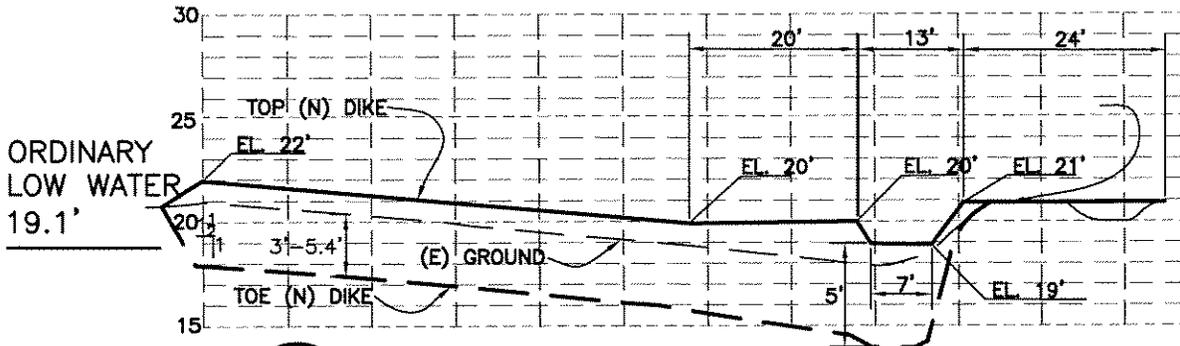
**COUNTY OF** Humboldt **STATE** CA

**APPLICATION BY**  
Humboldt Bay Municipal Water District

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ORDINARY  
HIGH WATER  
32.3'

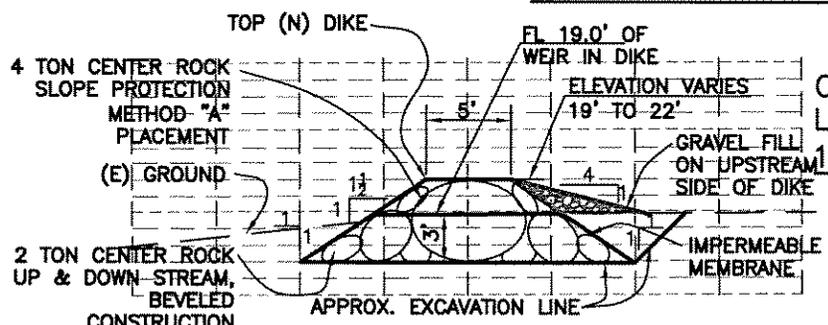


A  
Sht. 9

SECTION

SCALE: HORIZ. 1"=20'  
VERT. 1"=8'

ORDINARY  
HIGH WATER  
32.3'



B  
Sht. 9

SECTION

SCALE: HORIZ. 1"=10'

ORDINARY  
LOW WATER  
19.1'

### LOW FLOW CHANNEL DIKE DIKE/WEIR (Activity 4)

**PURPOSE:** Maintain Proper Flows to Surface Diversion Station #6

**DATUM** NGVD

**ADJACENT PROPERTY OWNERS** See Block 24

**IN** Mad River

**AT** Essex

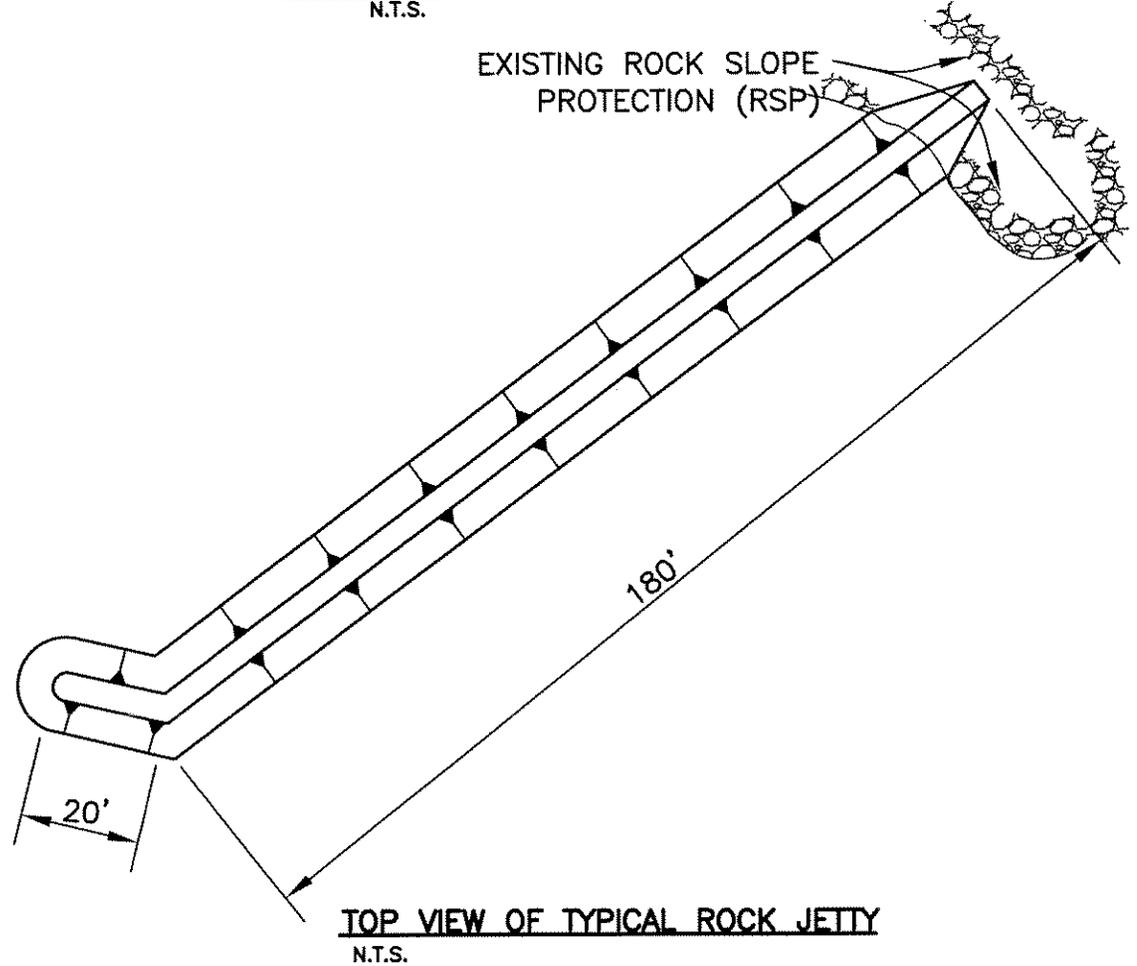
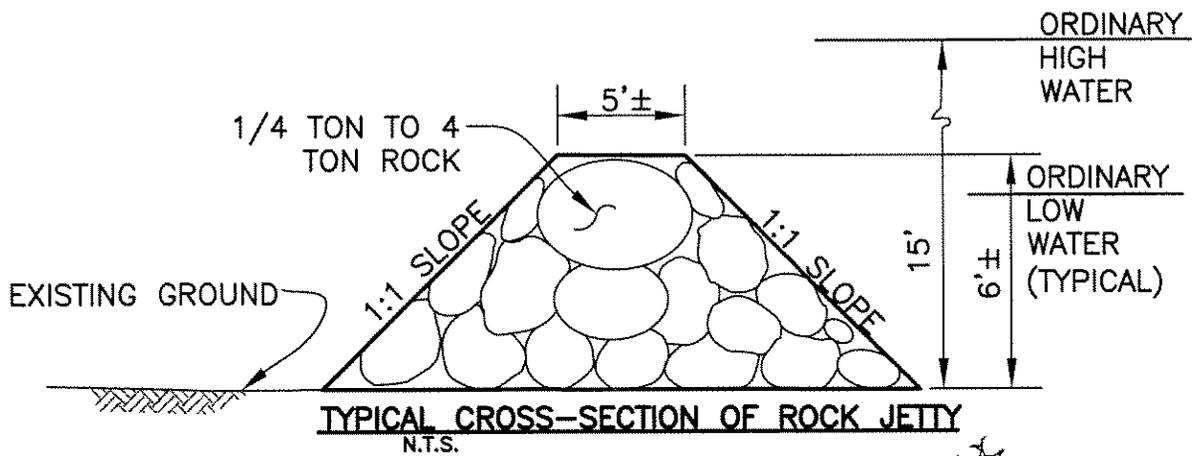
**COUNTY OF** Humboldt **STATE** CA

**APPLICATION BY**

Humboldt Bay Municipal Water District

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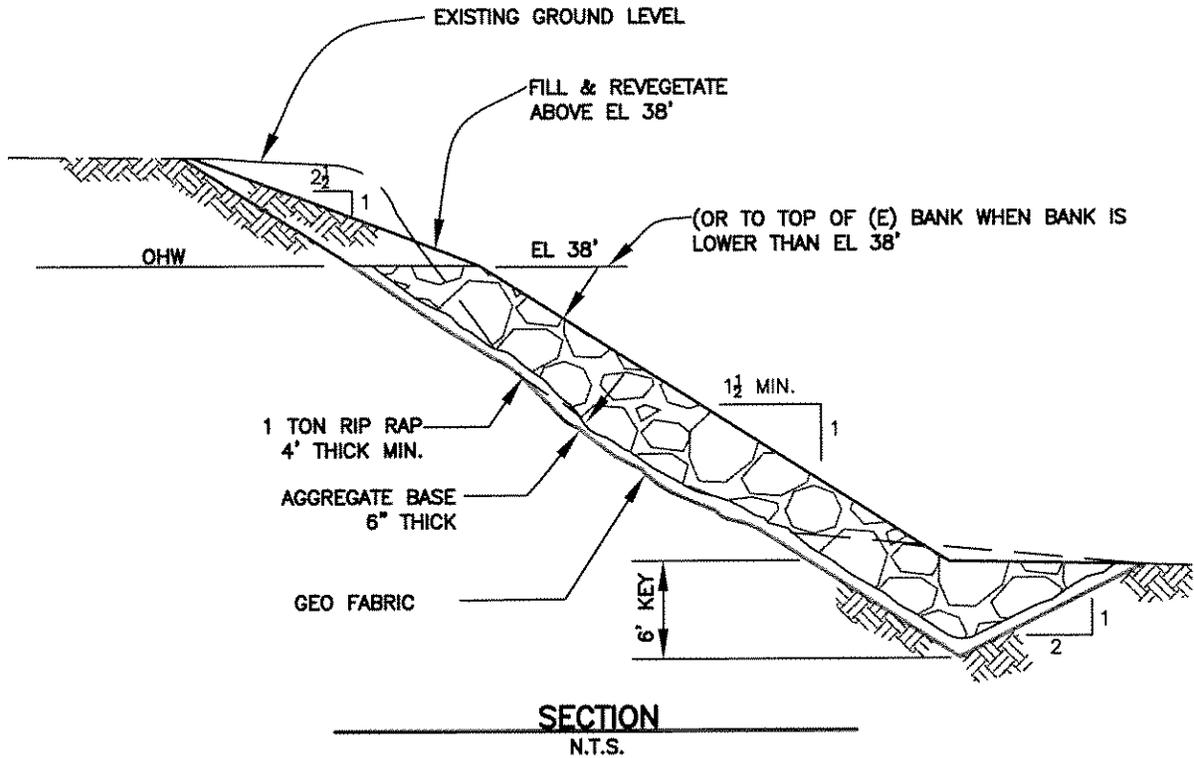
03105506\dwg\05506f15.dwg date: 02/05/04 @ 11 am



### TYPICAL ROCK JETTY (Activity 4)

**PURPOSE:** Maintain Proper Flows to Surface Diversion Station #6  
**DATUM** MSL  
**ADJACENT PROPERTY OWNERS** See Block 24  
**IN** Mad River  
**AT** Essex  
**COUNTY OF** Humboldt **STATE** CA  
**APPLICATION BY**  
 Humboldt Bay Municipal Water District

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### TYPICAL SECTION ROCK SLOPE PROTECTION (Activity 4)

**PURPOSE:** Repair Existing Bank Protection Where Necessary

**DATUM** NGVD

**ADJACENT PROPERTY OWNERS** See Block 24

**IN** Mad River

**AT** Essex

**COUNTY OF** Humboldt **STATE** CA

**APPLICATION BY**

Humboldt Bay Municipal Water District

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