



METRO

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file*

November 30, 2004

Gary Galovich
Oregon Department of Fish and Wildlife
Fish Division
3406 Cherry Avenue NE
Salem, OR 97303

Dear Gary,

Enclosed are copies of the construction drawings for the Smith-Bybee water control structure. I realized after I had sent the trash rack drawings to you yesterday that you probably do not have plans showing the structure itself.

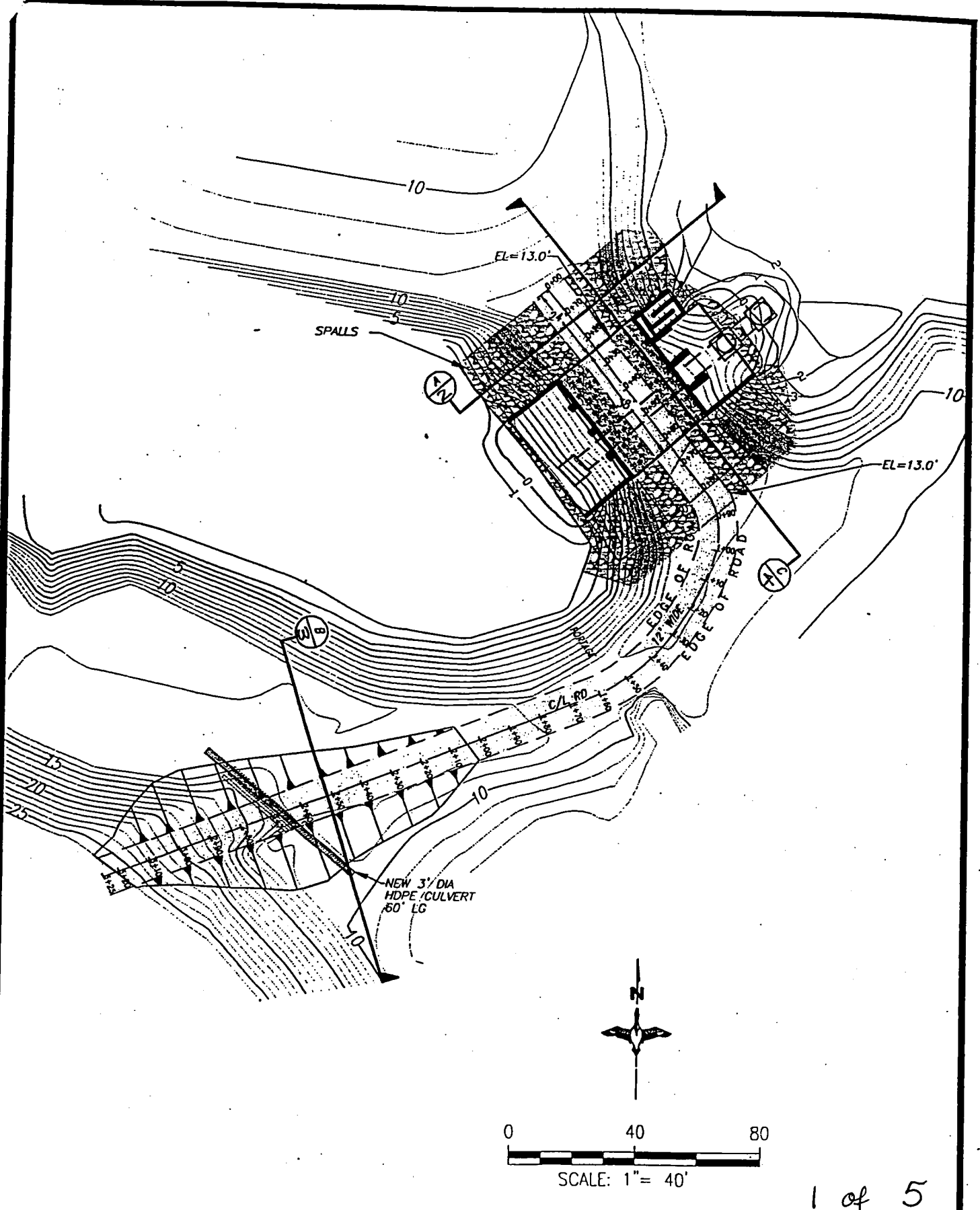
Please do not hesitate to contact me at 503-797-1515 or via email at stewarte@metro.dst.or.us if you need more information.

Sincerely,

A handwritten signature in cursive script, appearing to read 'Elaine'.

Elaine M. Stewart
Smith and Bybee Lakes Wildlife Area Manager

cc Ducks Unlimited – Chuck Lobdell, Gus Williams



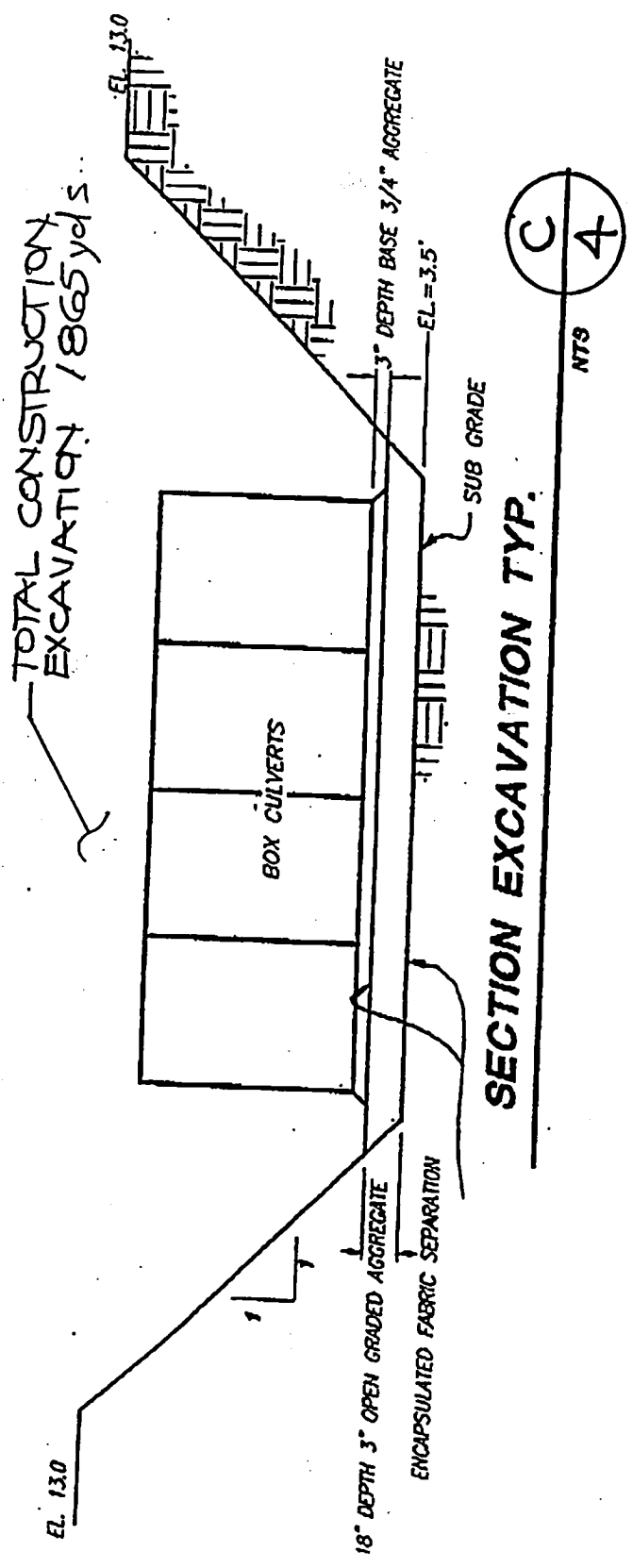
1 of 5

DUCKS UNLIMITED INC.
PacNW Field Office (360)885-2011

PROJECT NO. OR-32-1

**SMITH AND BYBEE WETLANDS
PROJECT PLAN VIEW**

DESIGNED BY:	GW
DRAWN BY:	DMC
SURVEYED BY:	DU
CHECKED BY:	



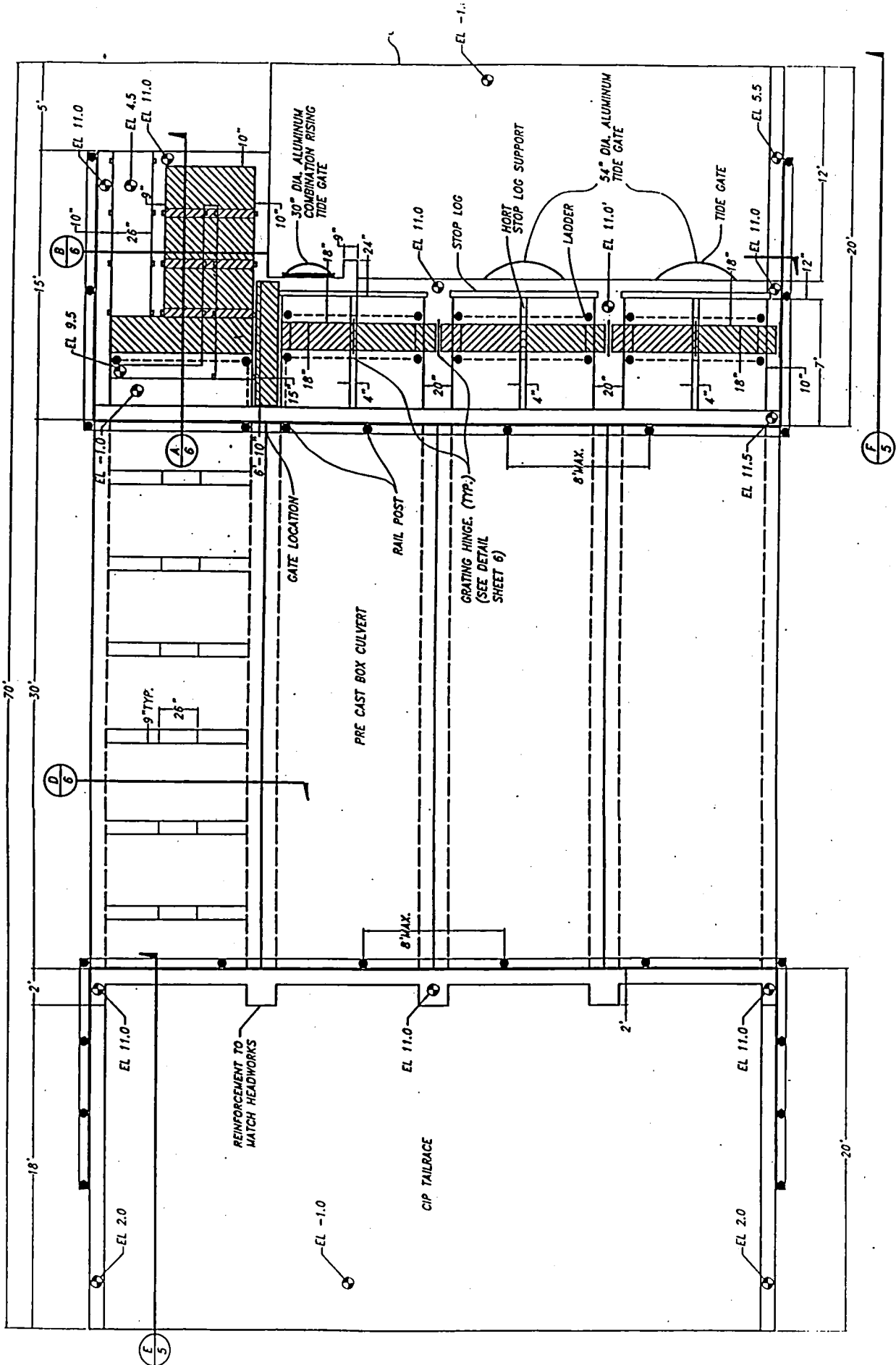
MATERIAL BALANCE:

TOTAL EXCAVATION = 2000 yd - 135 yd (VOLUME EXIST STRUCT) = 1865 yd

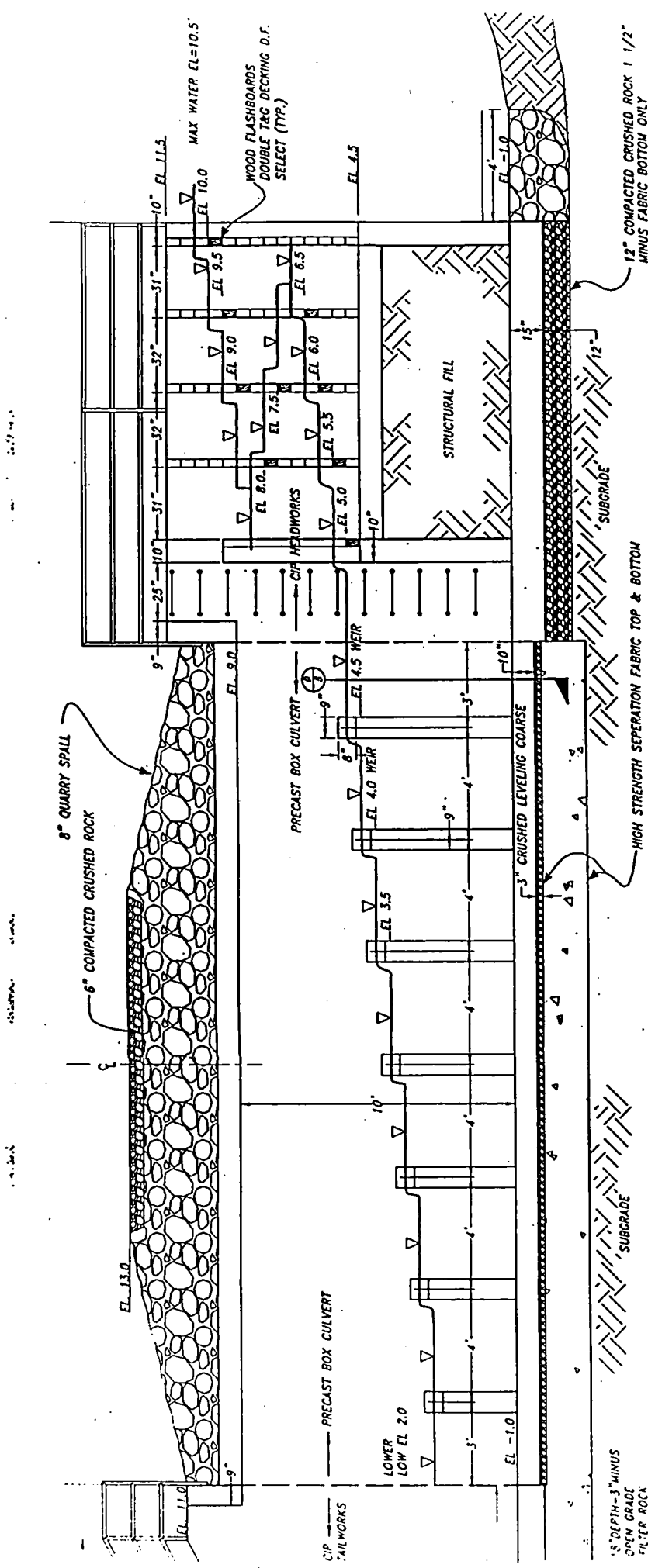
NATIVE BACK-FILL = 2000 yd - 900 yd (NEW STRUCT VOLUME) - 610 yd (IMPORT FILL) = 490 yd

SPOIL EXPORT = 1865 yd - 490 yd = 1375 yd

NET FILL = EXISTING VOLUME - PROPOSED VOLUME = 0 yd

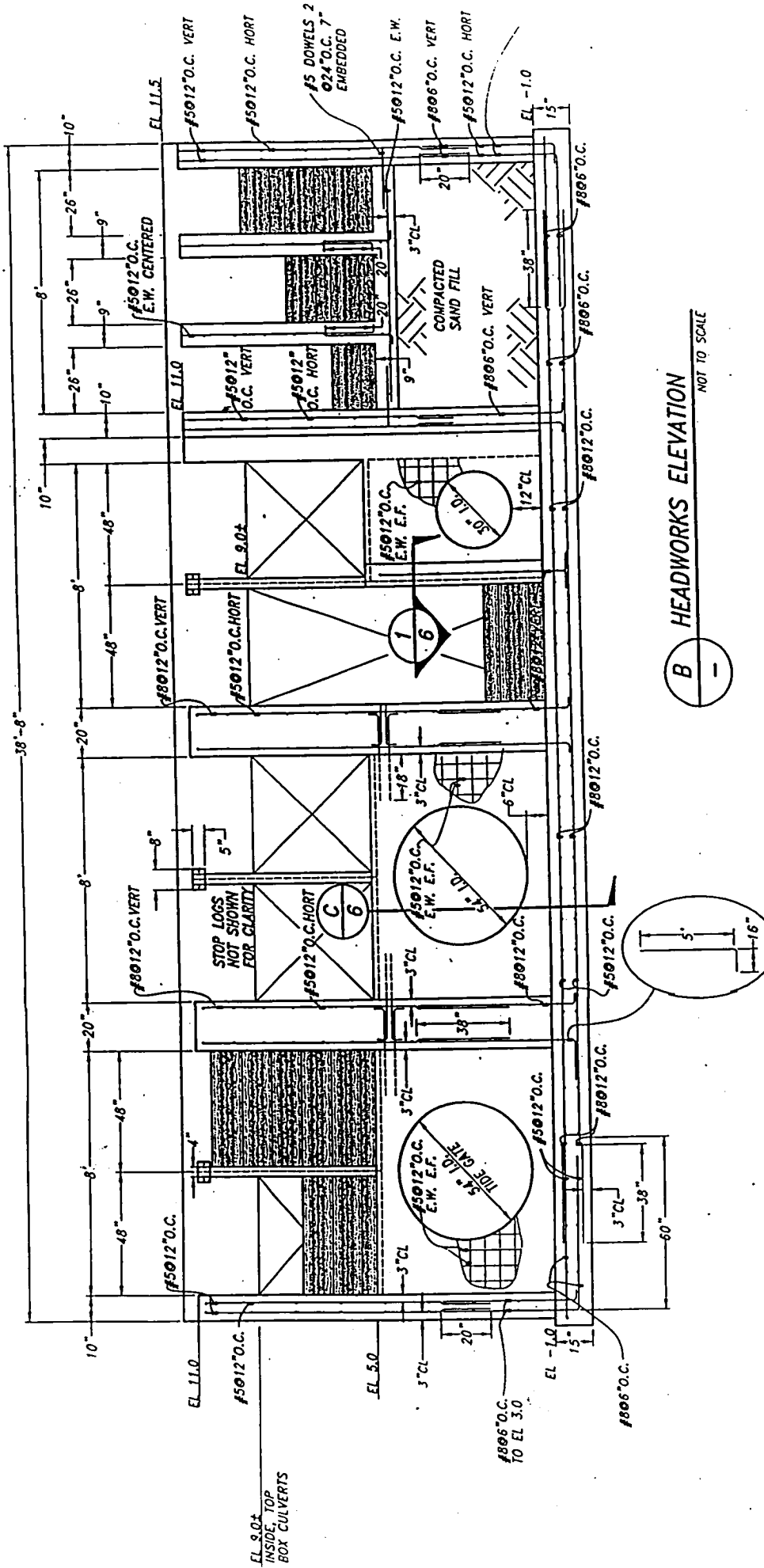


PLAN VIEW
WATER CONTROL STRUCTURE



FISH LADDER PROFILE

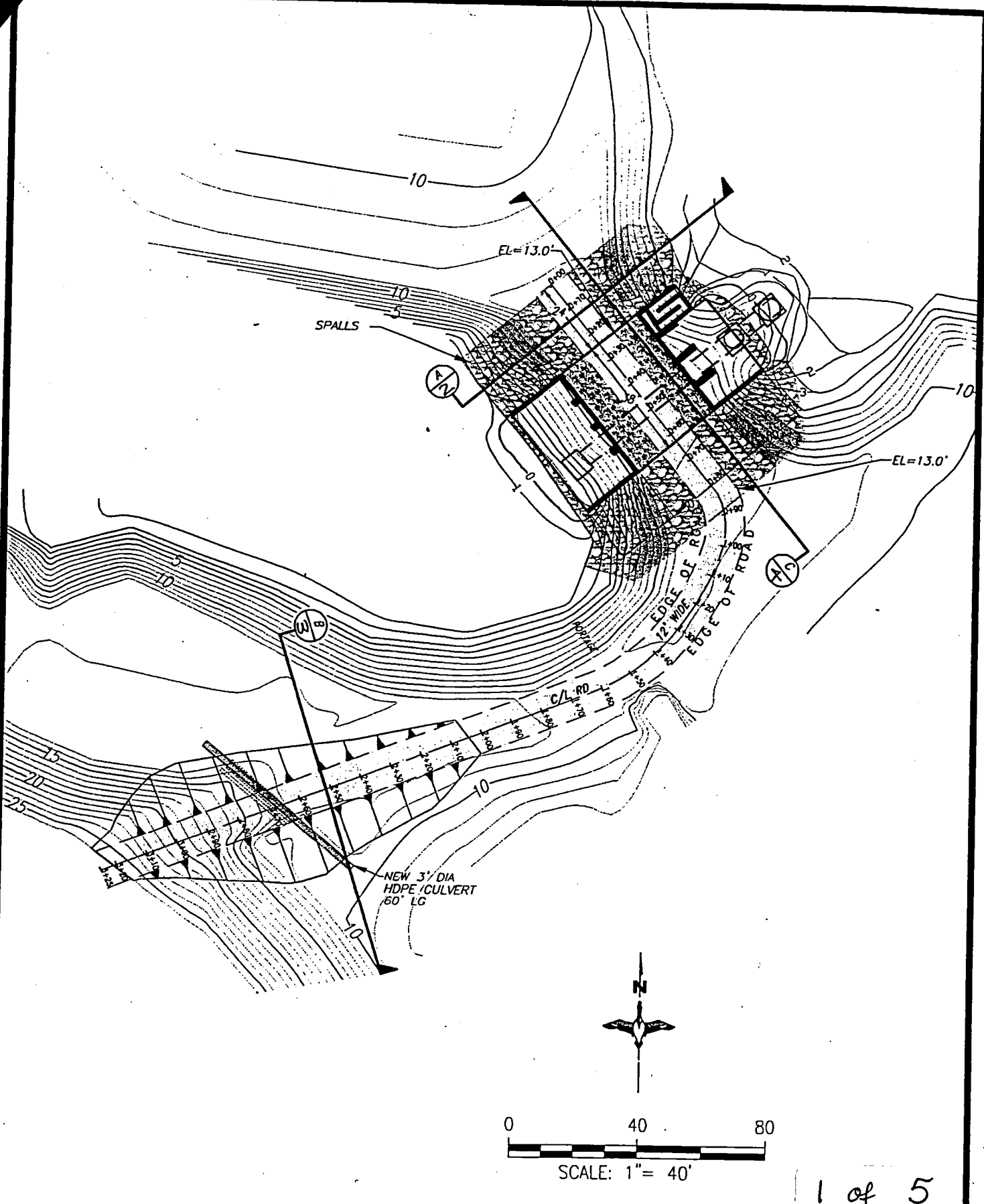
- * 18" DEPTH - 3" MINUS OPEN GRADE FILTER ROCK
- * SEPARATION FABRIC



B HEADWORKS ELEVATION

NOT TO SCALE

EL. 3.0+
INSIDE, TOP
BOX CULVERTS



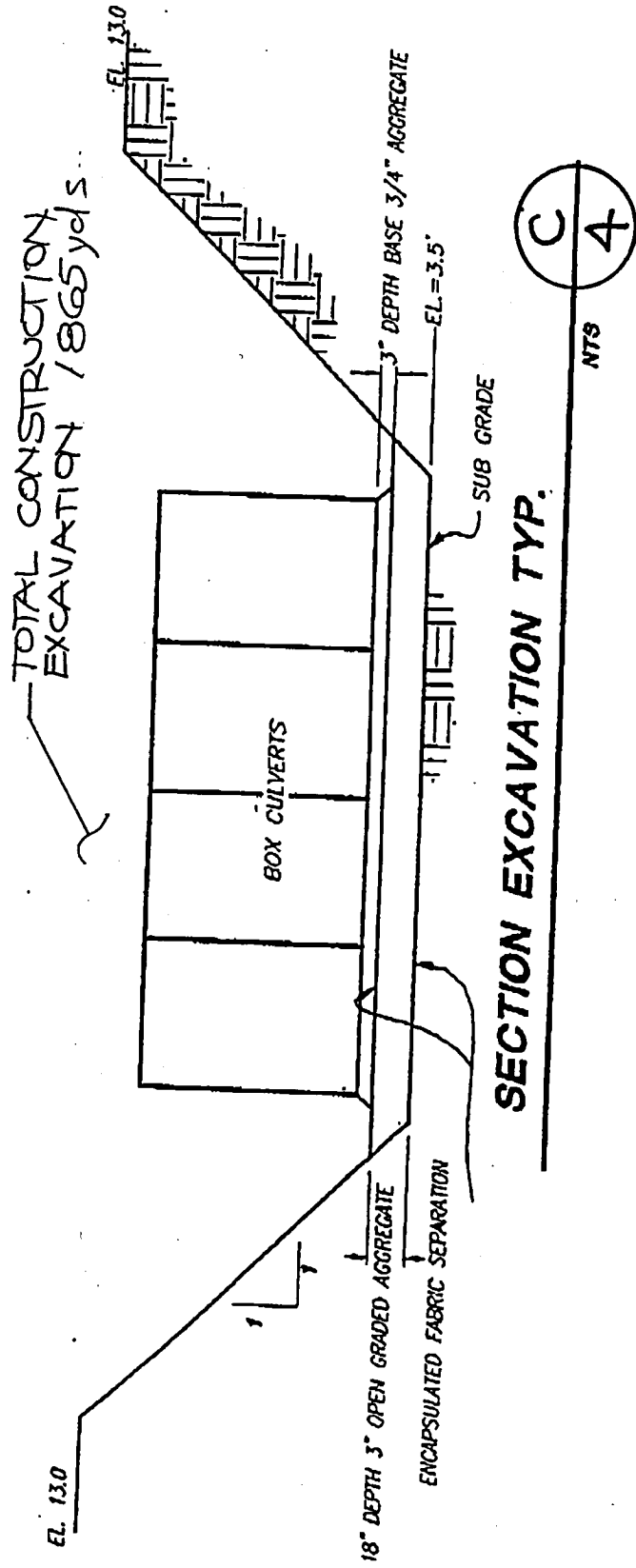
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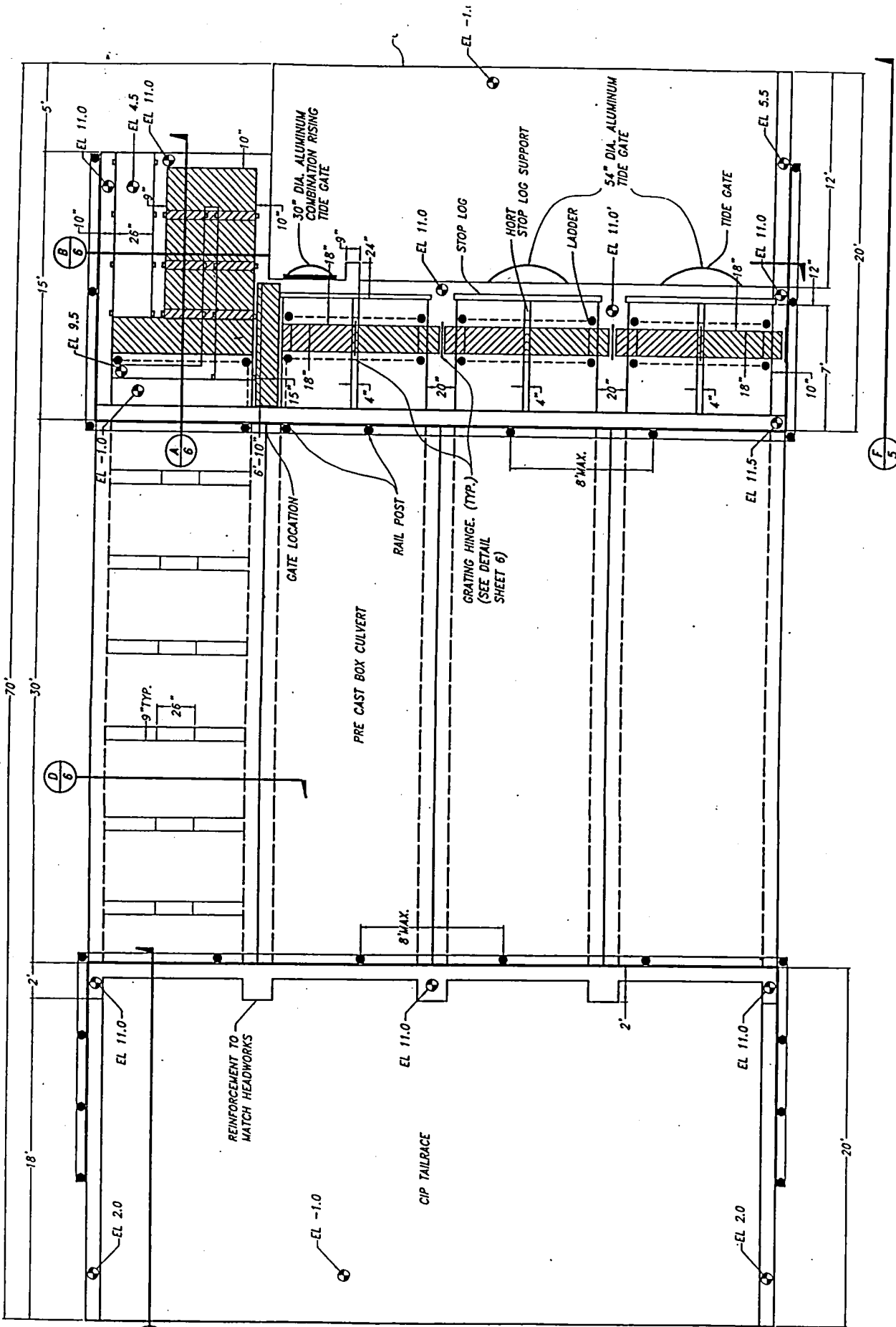
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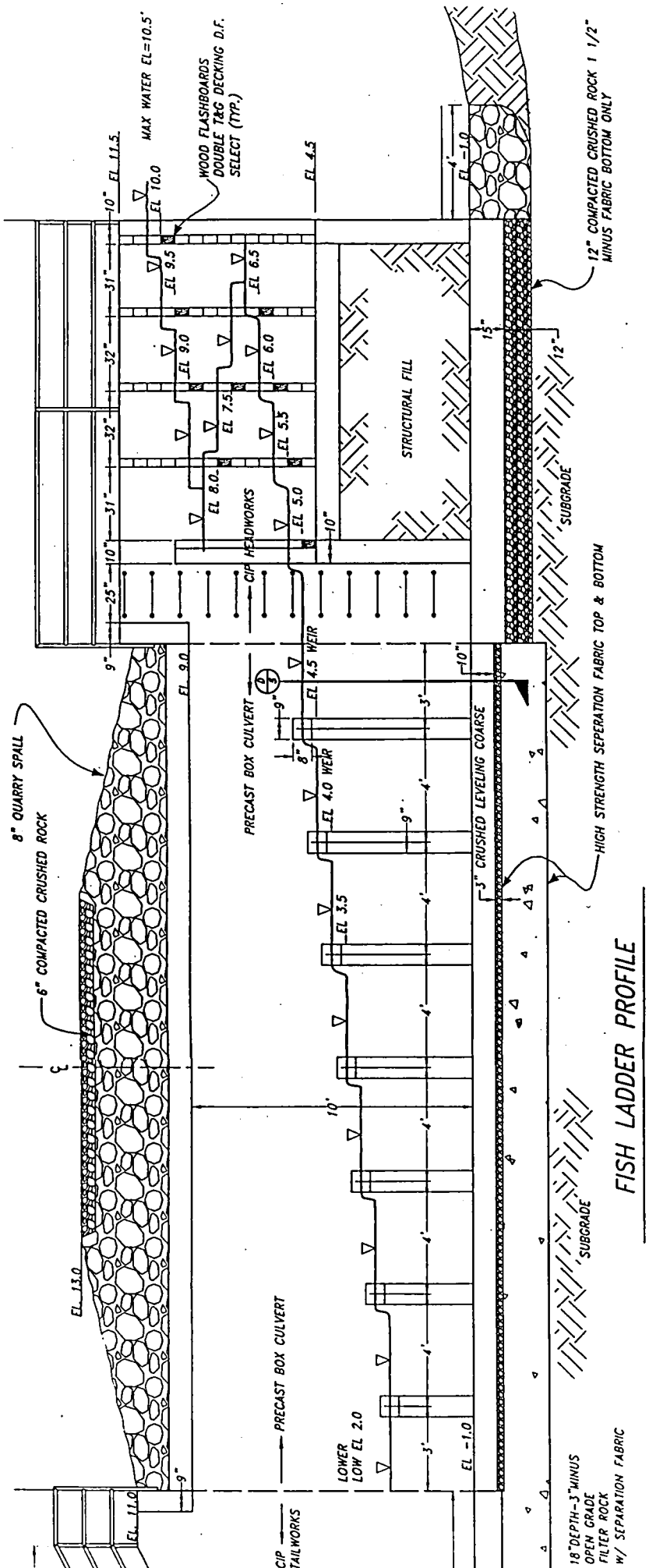
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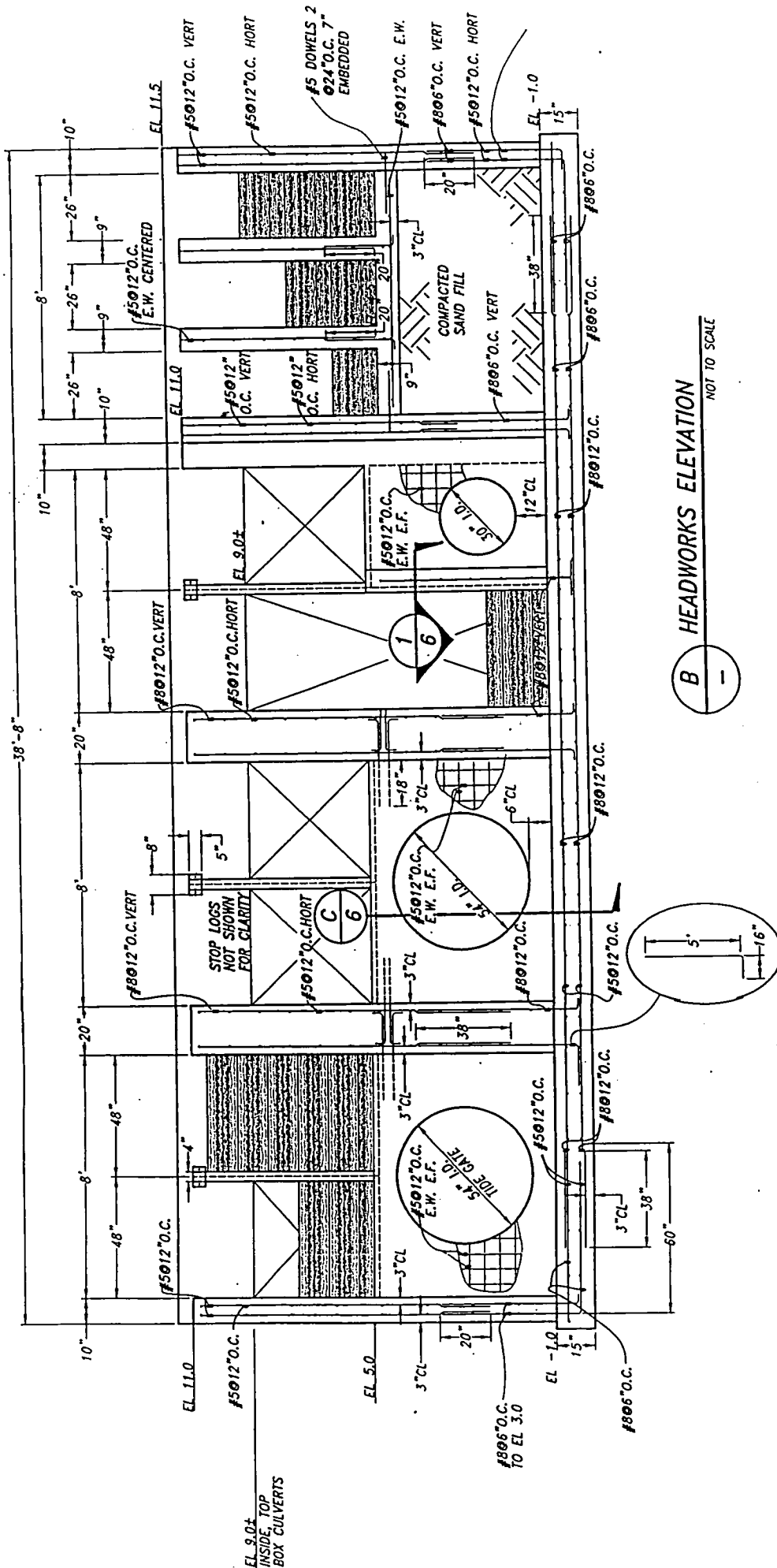
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PLAN VIEW
WATER CONTROL STRUCTURE



FISH LADDER PROFILE



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