

SWCA

STREAM RESTORATION IN THE PACIFIC NORTHWEST

EDGECOMB CREEK

AUGUST 22 | Josh Allen (joshua.allen@swca.com)
Ben Wright (ben@soundviewconsultants.com)

AGENDA

INTRODUCTIONS

PROJECT BACKGROUND

DESIGN AND PERMITTING PROCESS

CONSTRUCTION



Soundview Consultants
Environmental Assessment • Planning • Land Use Solutions

SWCA[®]
ENVIRONMENTAL CONSULTANTS

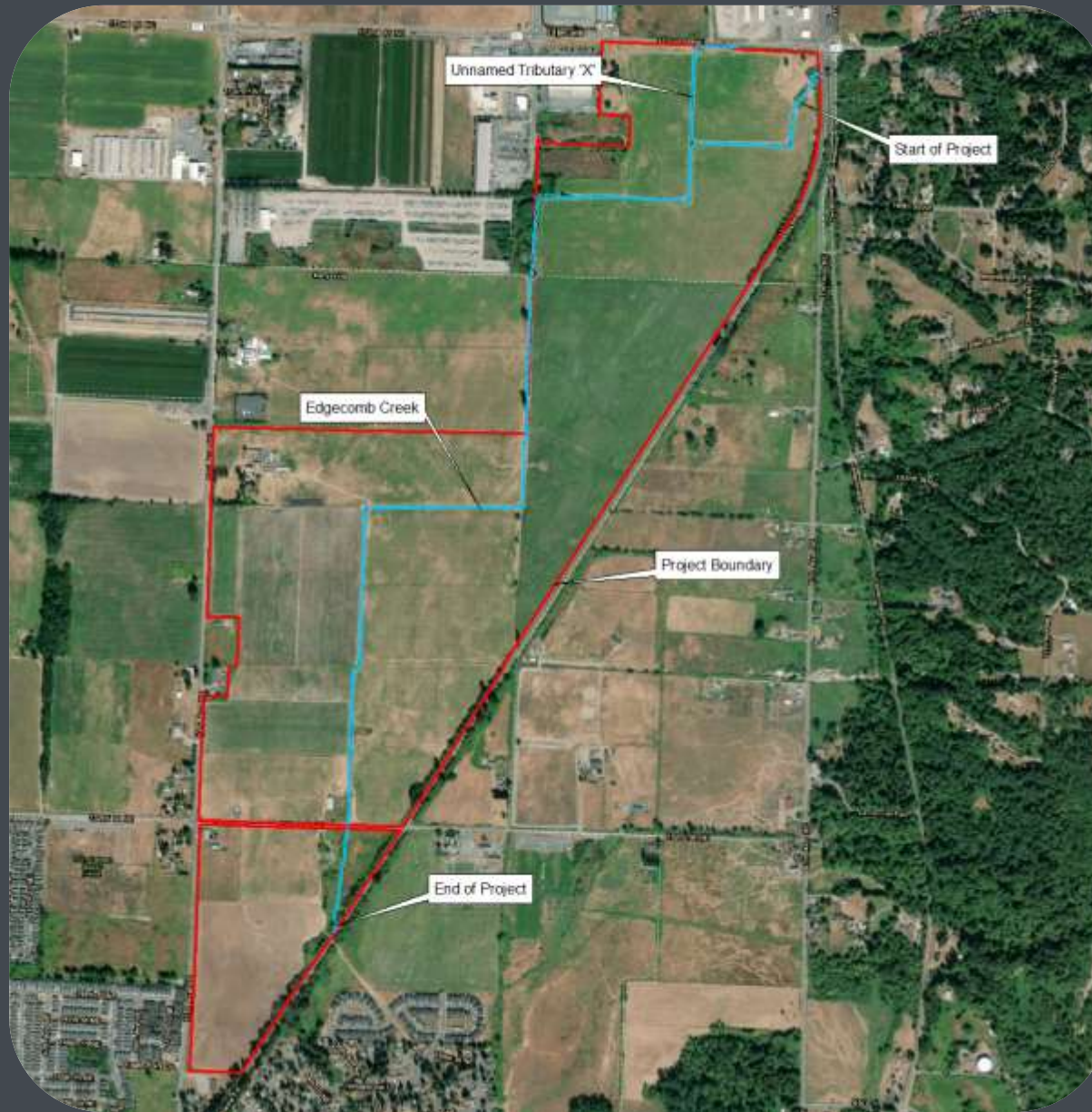
Our Purpose

Restoring healthy ecosystems for wildlife, fisheries, recreation, and aesthetics benefits people as well as the environment.

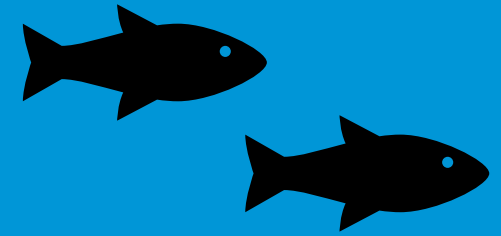
Soundview Consultants

Environmental Assessment • Planning • Land Use Solutions





EXISTING EDGEComb CREEK



PRE-RESTORATION DITCHED
CONDITIONS



COMMON SUMMER FISH KILLS



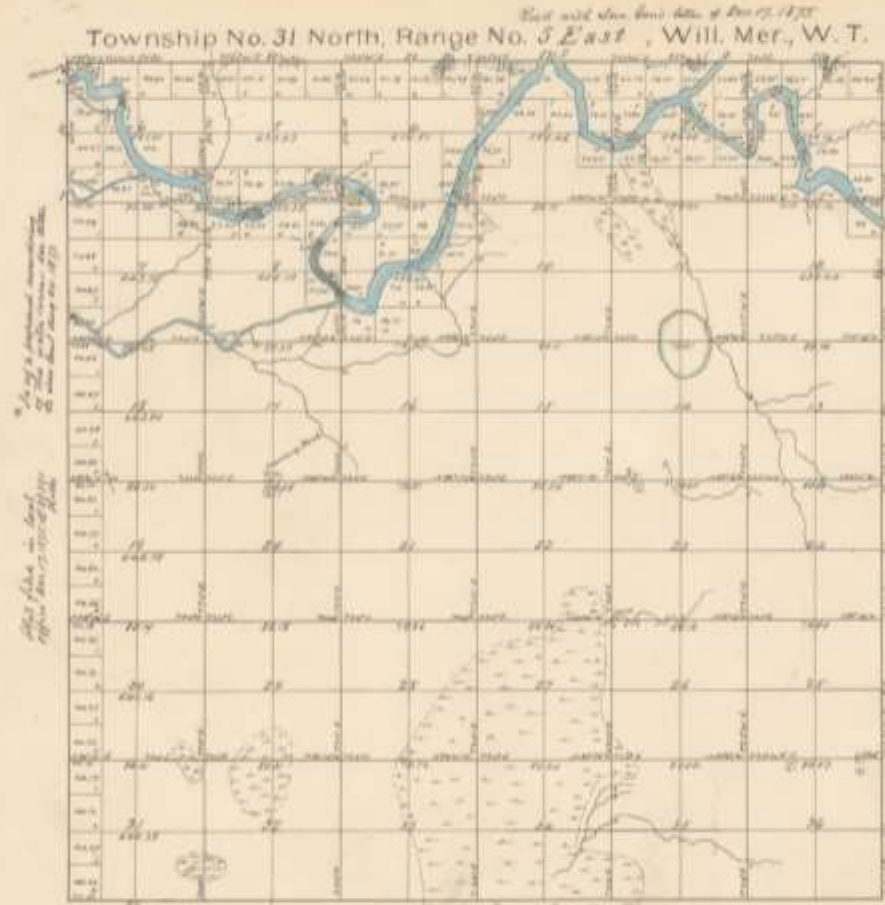
FISH PASSAGE BLOCKAGES

STREAM DESIGN - HIGHLIGHTS

ALLUVIAL FAN
STREAM/WETLAND COMPLEX



31-5-A



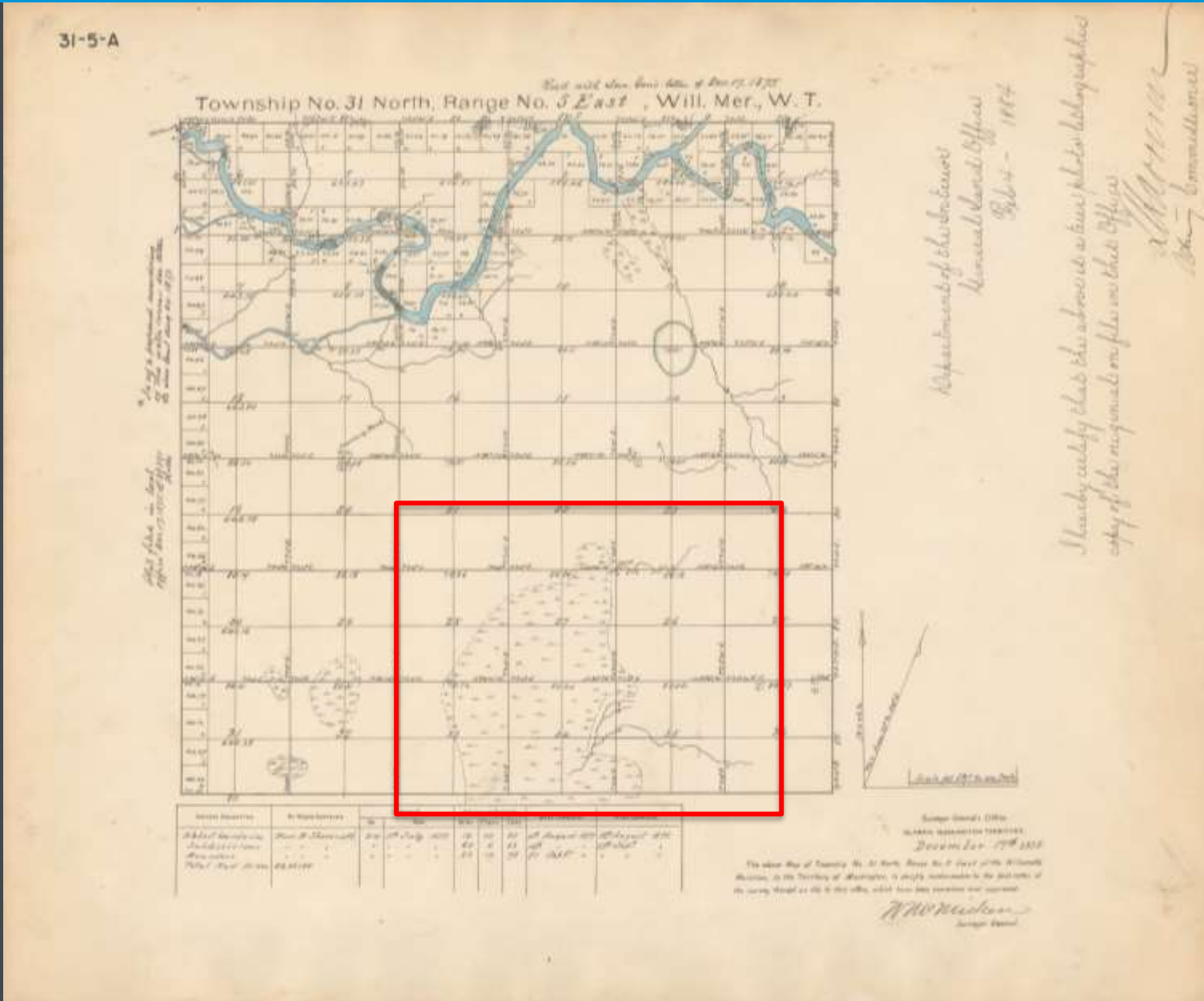
Section	Acres	Owner	Value	Remarks
31-5-1	36	John D. H. H. H.	100	
31-5-2	36	John D. H. H. H.	100	
31-5-3	36	John D. H. H. H.	100	
31-5-4	36	John D. H. H. H.	100	
31-5-5	36	John D. H. H. H.	100	
31-5-6	36	John D. H. H. H.	100	
31-5-7	36	John D. H. H. H.	100	
31-5-8	36	John D. H. H. H.	100	
31-5-9	36	John D. H. H. H.	100	
31-5-10	36	John D. H. H. H.	100	



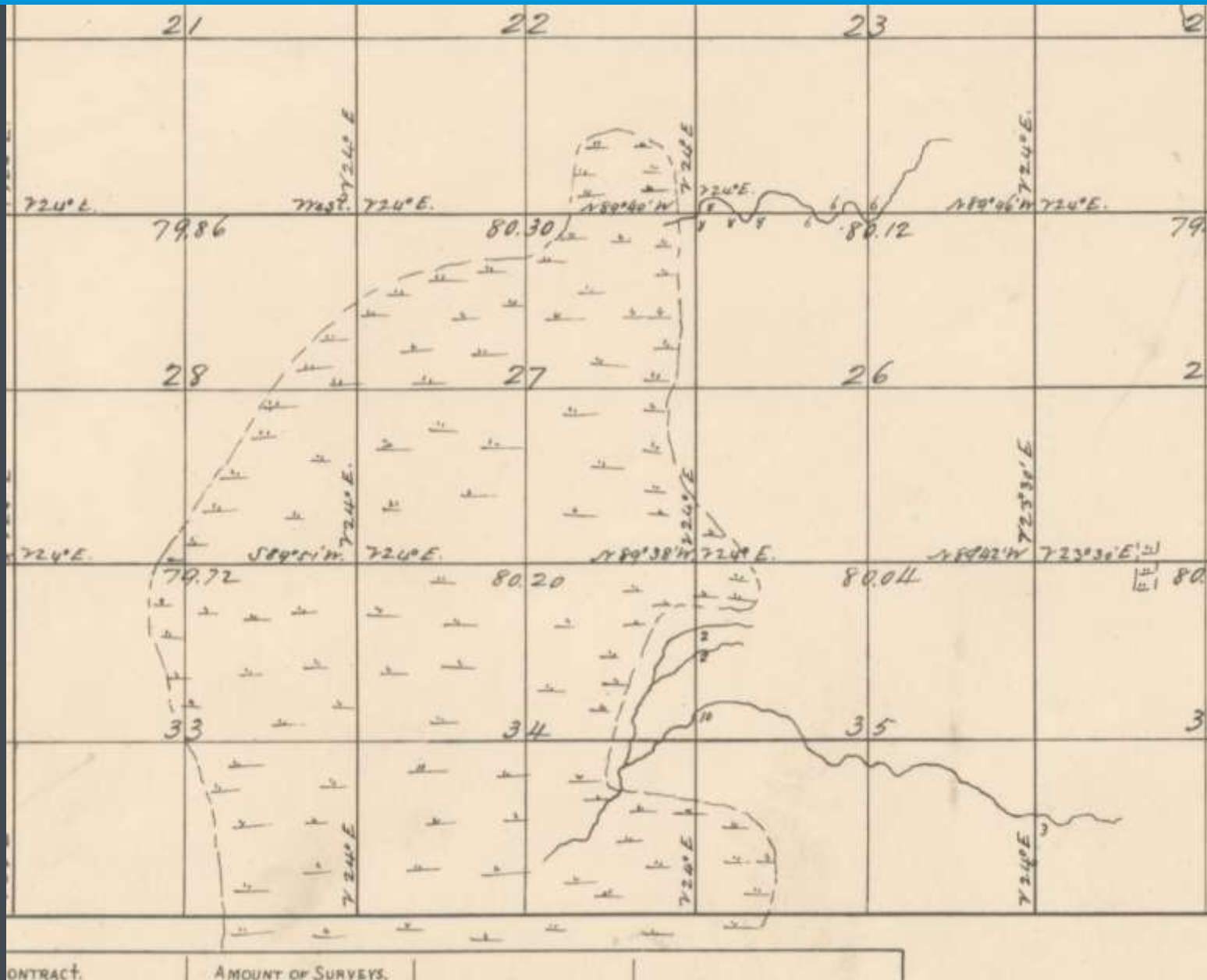
Department of the Interior
General Land Office
Sub 4 - 1884

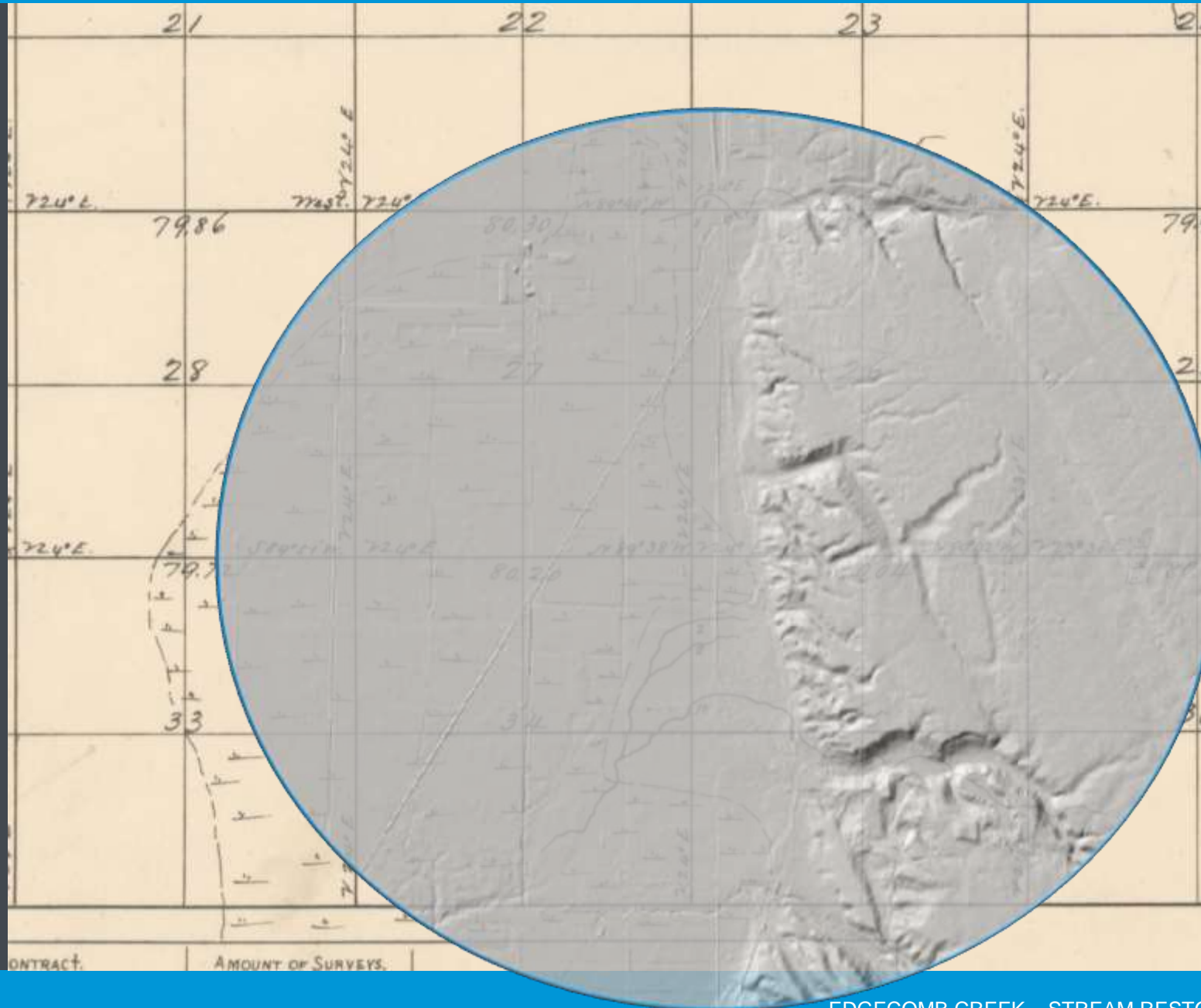
I hereby certify that the above is a true and correct copy of the original on file in this Office.
 W. W. H. H. H.
 Commissioner

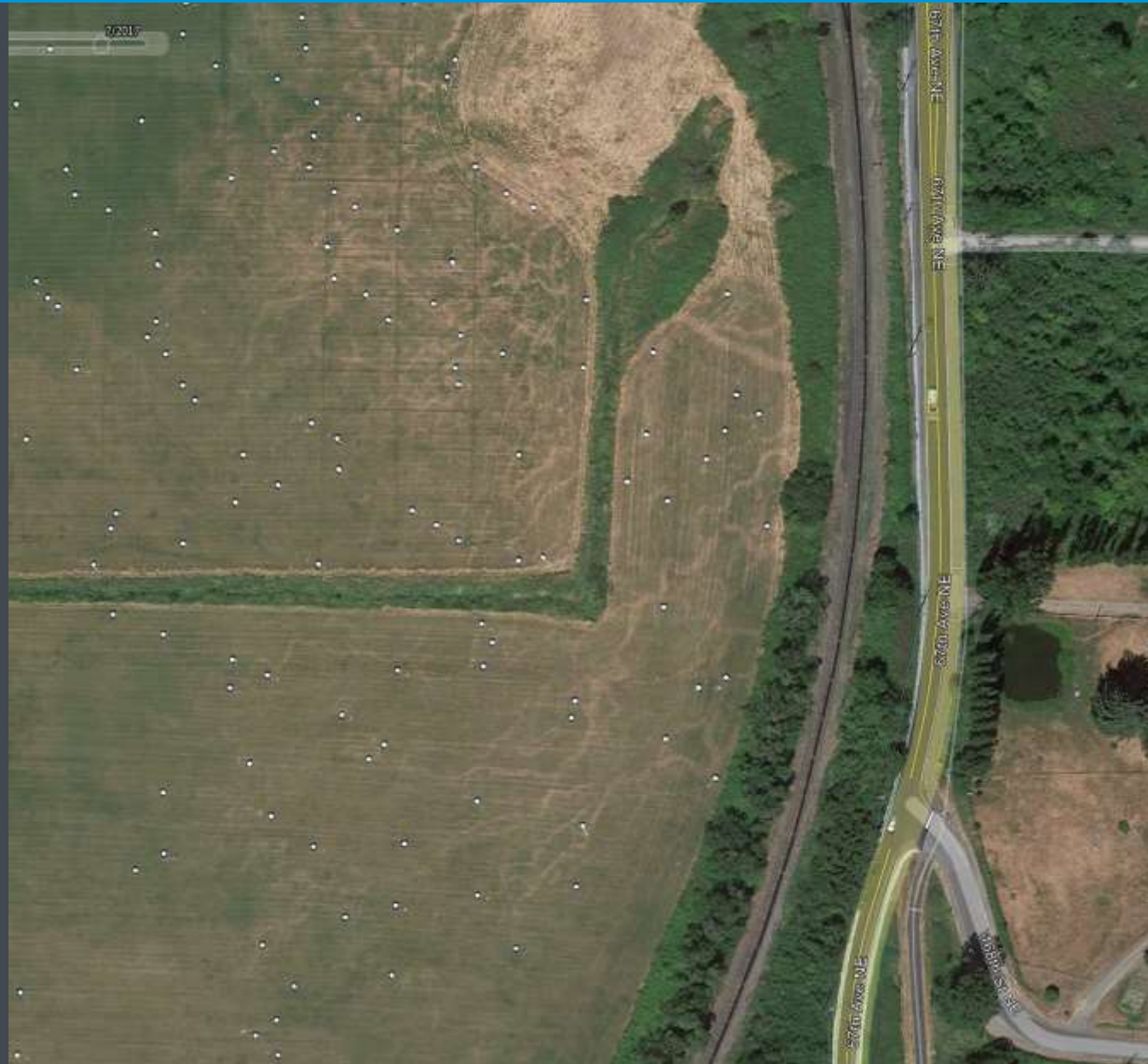
George Daniel, D.W.
 LAND REGISTRATION SERVICE
 December 17, 1884
 The above map of Township No. 31 North, Range No. 3 East of the Willamette Meridian, in the Territory of Washington, is hereby published in the full faith of its survey, kept on file in this office, which has been examined and approved.
 W. W. H. H. H.
 George Daniel



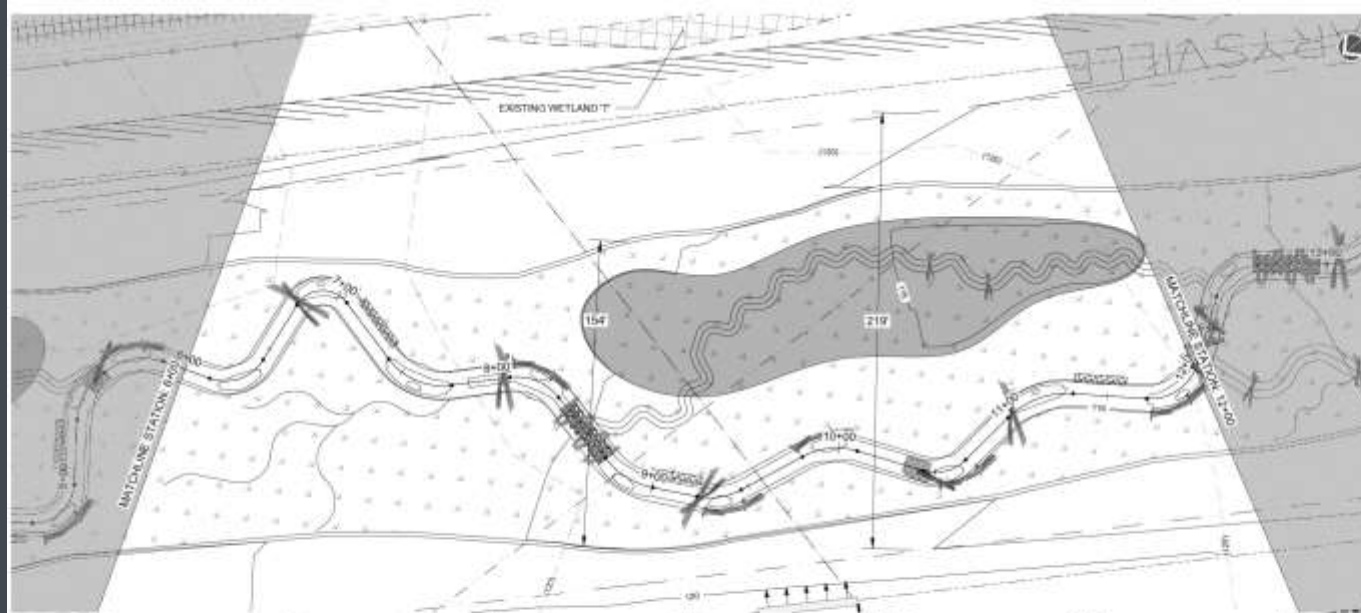
STREAM DESIGN - HIGHLIGHTS





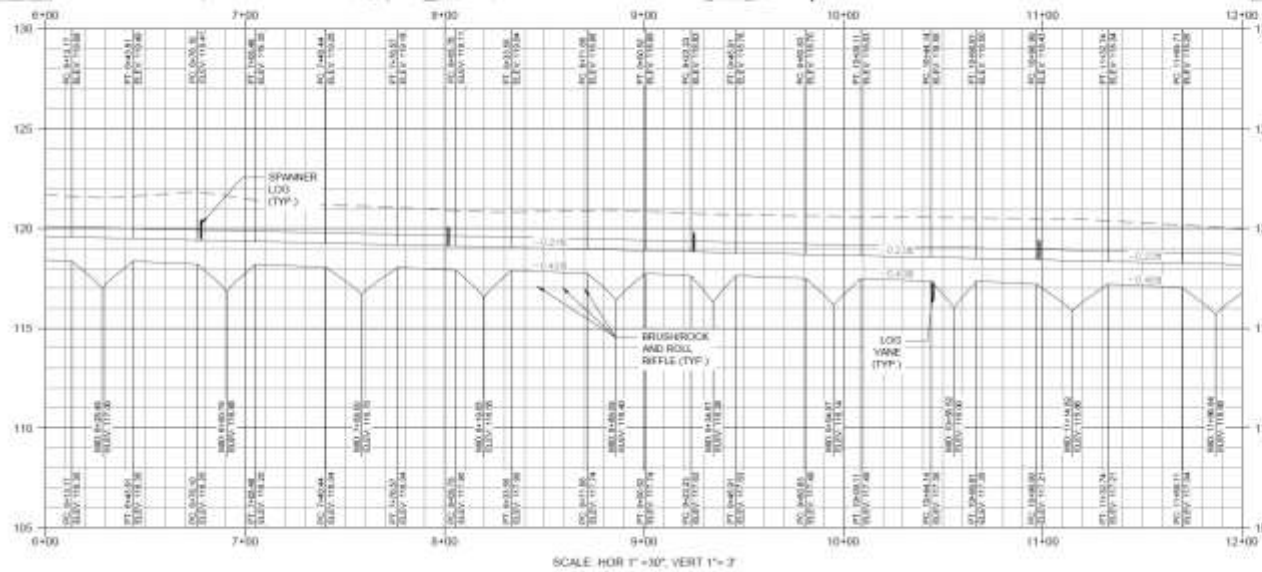


PROJECT BACKGROUND



- PLAN LEGEND**
- PROPOSED STREAM CENTER LINE
 - PROPOSED CHANNEL TOE
 - EXISTING MAJOR CONTOUR
 - EXISTING MINOR CONTOUR
 - PROPOSED MAJOR CONTOUR
 - PROPOSED MINOR CONTOUR
 - LIMIT OF DISTURBANCE
 - PROPOSED FLOOD TERRACE TOE/TOB
 - PROPOSED FLOODPLAIN TOE
 - EXISTING CONTOUR ELEVATION
 - FLOODPLAIN DEPRESSION
 - BRUSH AND ROLL RIFFLE
 - ROCK AND ROLL RIFFLE
 - FASCINE TOE PROTECTION
 - LOG VANE
 - SPANNER LOG
 - ROUGHENED TOE LOG
 - DENDRITE CHANNEL
 - WETLAND AREA
 - UPLAND PERIMETER BOUNDARY
 - STORMWATER DISPERSION STRUCTURE
- PROFILE LEGEND**
- PROPOSED STREAM THALWEG
 - PROPOSED CHANNEL TOB
 - EXISTING GROUND
 - FLOOD TERRACE TOP/FLOODPLAIN TOE

NOTE
WOODY DEBRIS HABITAT SHALL BE
RANDOMLY PLACED THROUGHOUT
THE BANKFULL CHANNEL AS SHOWN IN
THE DETAIL ON SHEET 51.



AQUATIC LIFE CONSIDERATIONS

STRUCTURES

FLOODPLAIN FEATURES

CULVERT DESIGN

ROUGHENED LOG TOE



WOODY/ROCK AND ROLL RIFFLE



SPANNER LOG



FLOODPLAIN DEPRESSIONS



DENDRITE CHANNELS



CULVERT DESIGN



PERMITTING

INDIVIDUAL PERMIT

COORDINATION WITH AGENCIES AND LOCAL TRIBES

CONSTRUCTION DELAYS DUE TO PERMIT APPROVALS

CONSTRUCTION

DELAYS DUE TO FISH WINDOW

CONTRACTOR CHANGE OVER

TESC COMPLIANCE DURING INACTIVE PERIODS

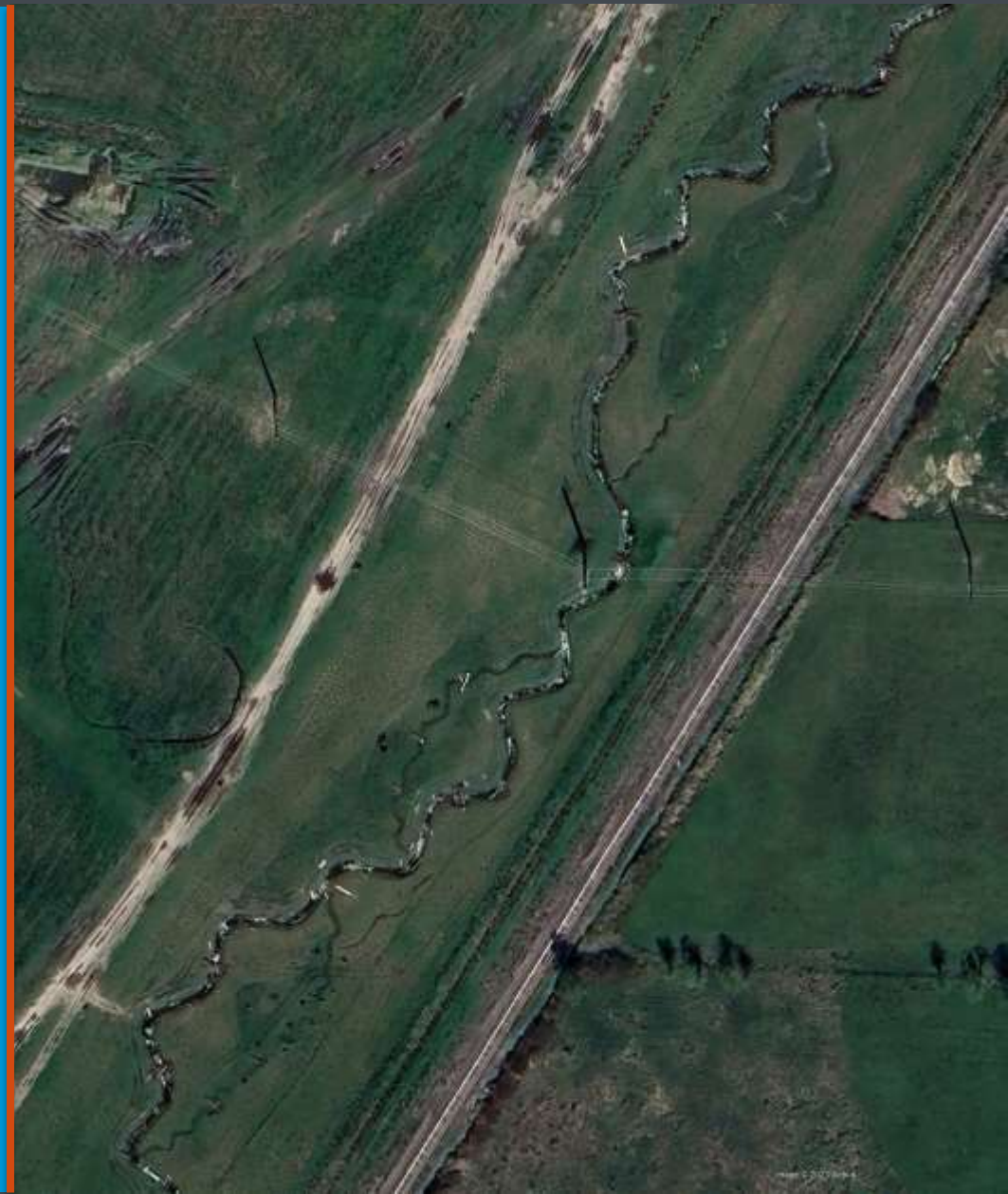




AQUATIC HABITAT



OFF-CHANNEL REARING HABITAT



ALLUVIAL FAN RE-ACTIVATION



THANK YOU.