

VICINITY MAP

SHEET INDEX

COVER PROJECT OVERVIEW

PROJECT OVERVIEW
UPSTREAM SIDE CHANNELS SITE PLAN
DOWNSTREAM SIDE CHANNELS SITE PLAN
SIDE CHANNELS PROFILES AND SECTION
CHIMWAM RIVER CONFLUENCE SITE PLAN
TYPICAL CROSS SECTIONS AND PROFILE
TYPICAL LARGE WOOD DETAILS
MID CHANNEL ELJ DETAIL
HABITAT WOOD STRUCTURE DETAIL

PROJECT DESCRIPTION

THIS PROJECT WILL IMPROVE JUVENILE SALMON HABITAT BY INCREASING IN—CHANNEL COMPLEXITY, IMPROVING FLOODPLAIN CONNECTIVITY, AND EXPANDING COLD WATER REFUGIA IN THE WENATCHEE AND CHIWAWA RIVERS. THE PROJECT IS FURTHER DESCRIBED IN THE CHIWAWA OUTLET RESTORATION PROJECT CONCEPTUAL DESIGN REPORT, 2020. PROJECT ELEMENTS INCLUDE EXCAVATION OF SIDE CHANNELS IN THE CHIWAWA RIVER ALLUVIAL FAN, ALCOVE GRADING, AND PLACEMENT OF LARGE WOOD STRUCTURES

PROJECT LOCATION

LONGITUDE: 120'39'20.94"W

SECTION 1, TOWNSHIP 26 N, RANGE 17E

WATERBODY: CHIWAWA RIVER

* CALL BEFORE YOU DIG *

ABBREVIATIONS

AVFRAGE DIAMETER DIAMETER
EXISTING
EXISTING GROUND
ELEVATION
ENGINEERED LOG JAM
FINISHED GRADE
FEET
INVERT INVERI
NEW
NOT IN CONTRACT
NOT TO SCALE
ON CENTER
PROPERTY IDENTIFICATION NUMBER
RELATIVE COMPACTION
ROCK SLOPE PROTECTION
SOLVE

SPIKE SQUARE FOOT

T.B.D. TYP

TREE
TO BE DETERMINED
TYPICAL
UNKNOWN
WATER SURFACE ELEVATION

SECTION AND DETAIL CONVENTION

SECTION OR DETAIL IDENTIFICATION (NUMBER OR LETTER)





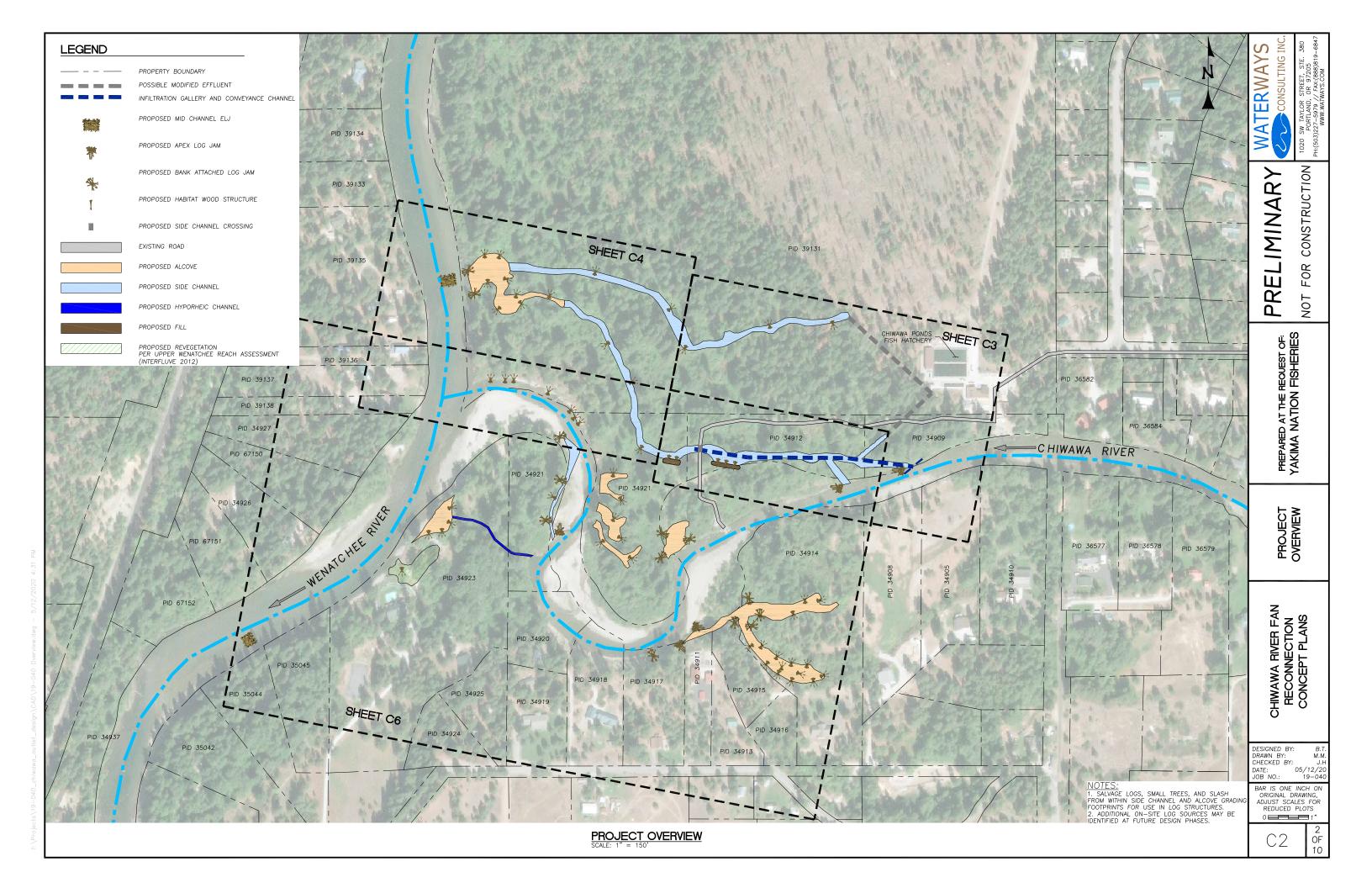
REGIONAL MAP

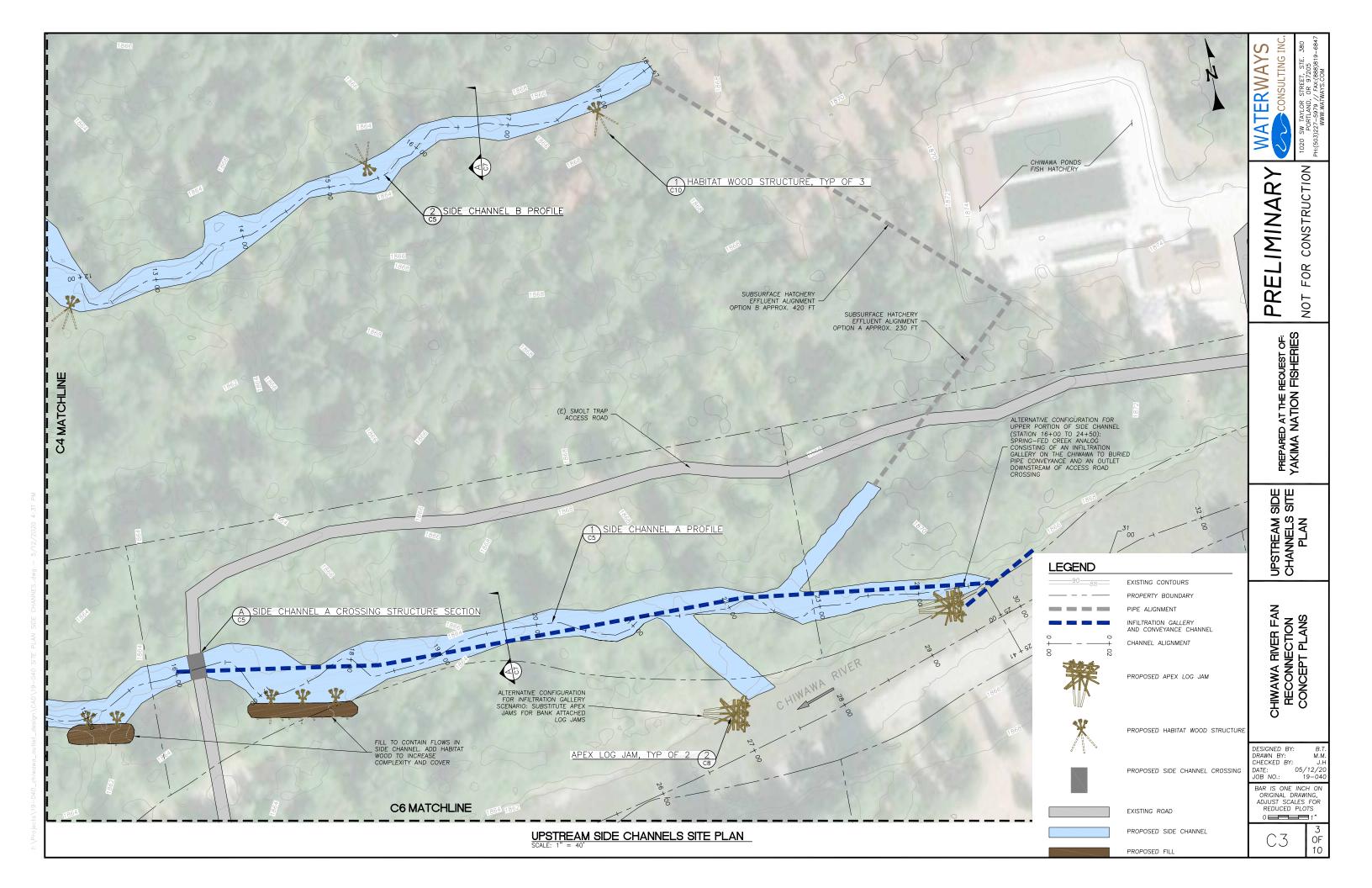
GENERAL NOTES

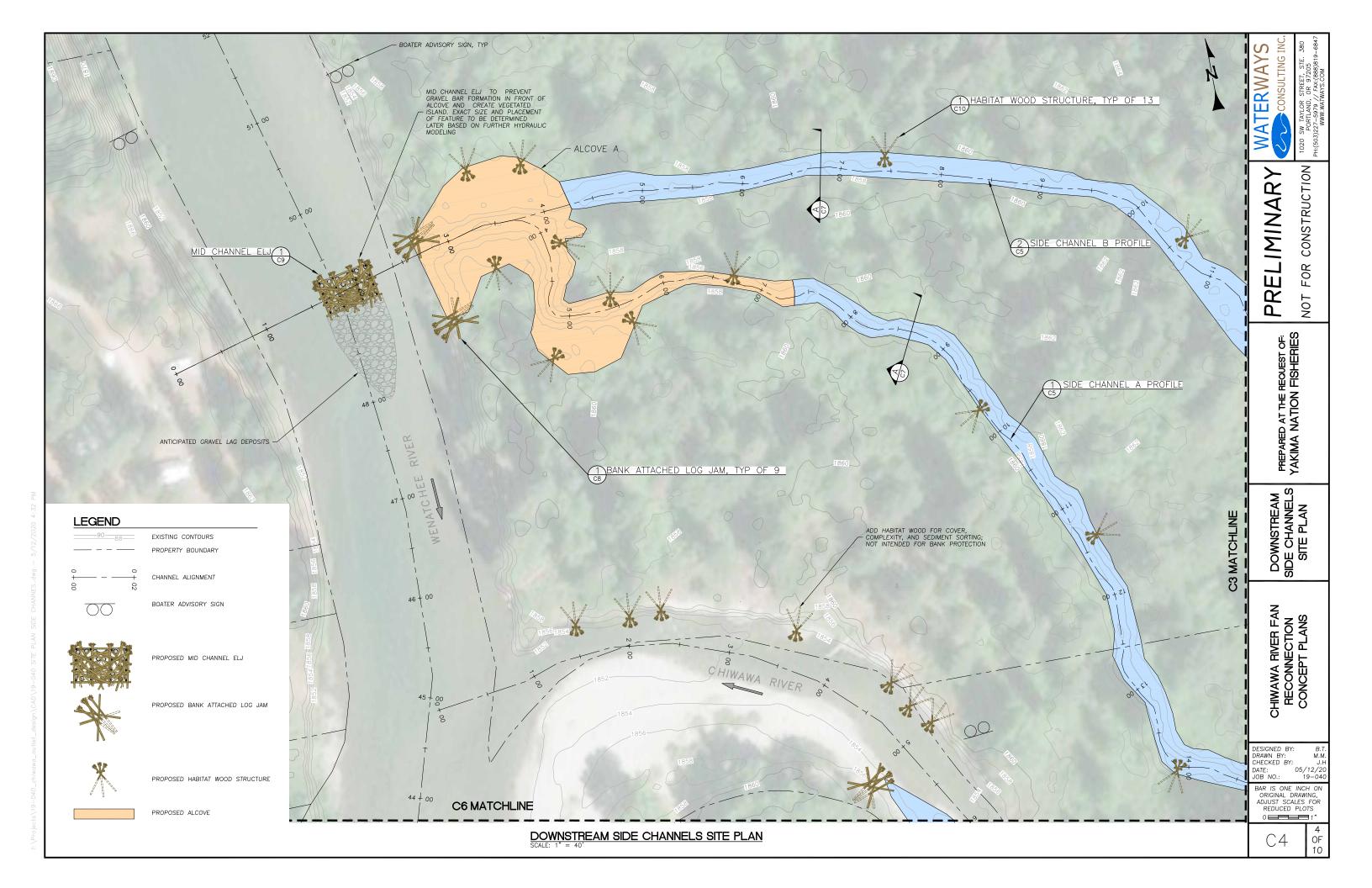
- 1. LIDAR MAPPING WAS PERFORMED BY: Quantum Spatial
 421 SW 6th AVENUE
 PORTLAND, OR 97204
 SURVEY DATES; AUGUST, 2015.
- 2. ELEVATION DATUM: NAVD88.
- 3 HORIZONTAL DATUM: NAD83 WASHINGTON STATE PLANE NORTH
- 4. AERIAL PHOTO SOURCE: AUTOCAD CIVIL3D GEOLOCATION MAP
- 5. CONTOUR INTERVAL IS TWO FOOT. ELEVATIONS AND DISTANCES SHOWN ARE IN DECIMAL FEET.
- 6. THIS IS NOT A BOUNDARY SURVEY. PROPERTY LINES ARE NOT SHOWN HEREON.
- 7 ALL CONSTRUCTION AND MATERIALS SHALL CONFORM TO THE STATE OF WASHINGTON DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS (HEREAFTER REFERRED TO AS "STANDARD SPECIFICATIONS").
- 10. THESE DESIGNS ARE INCOMPLETE WITHOUT THE FINAL STAMPED TECHNICAL SPECIFICATIONS PREPARED BY WATERWAYS CONSULTING, INC. REFER TO TECHNICAL SPECIFICATIONS FOR DETAILS NOT SHOWN HEREON.

 \Box

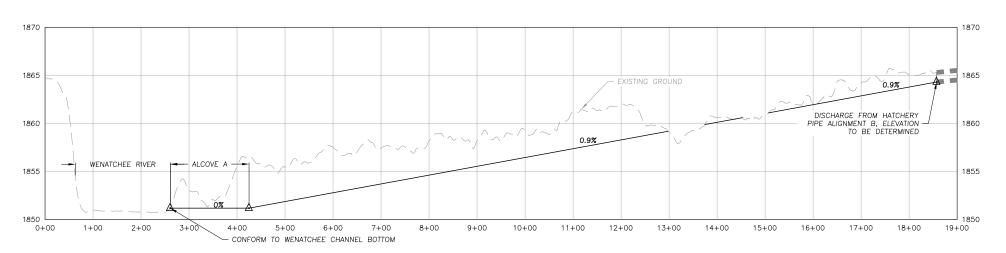
BAR IS ONE INCH ON ORIGINAL DRAWING, ADJUST SCALES FOR REDUCED PLOTS 0 - 1



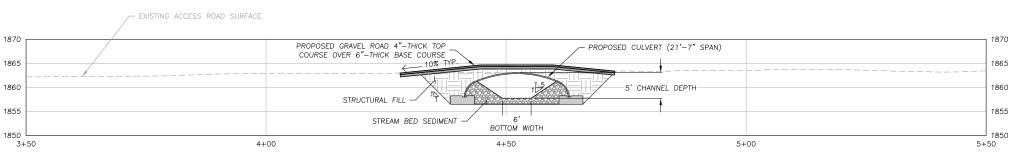




SIDE CHANNEL A PROFILE (SHOWN AT 20X VERTICAL EXAGGERATION)



SIDE CHANNEL B PROFILE (SHOWN AT 20X VERTICAL EXAGGERATION)



CROSSING NOTES:

1. CROSSING TYPE NOT DETERMINED AT THIS PHASE OF DESIGN. CROSSING MAY CONSIST OF A BRIDGE OF CULVERT.

2. CHANNEL AND CROSSING DIMENSIONS SHOWN ARE APPROXIMATE. CROSSING DIMENSIONS TO BE DEVELOPED AT A LATER STAGE OF DESIGN.

3. CROSSING WILL BE DESIGNED TO ACCOMMODATE LOADS SUCH AS A MOBILE CRANE TO REMOVE THE SMOLT TRAP

SIDE CHANNEL A CROSSING STRUCTURE SECTION

SCALE: 1" = 10'



WATERWAYS CONSULTING INC.

ALTERNATIVE: STA 16+00 TO STA

CONSTRUCTION LIMINAR FOR Ш PRI

NOT

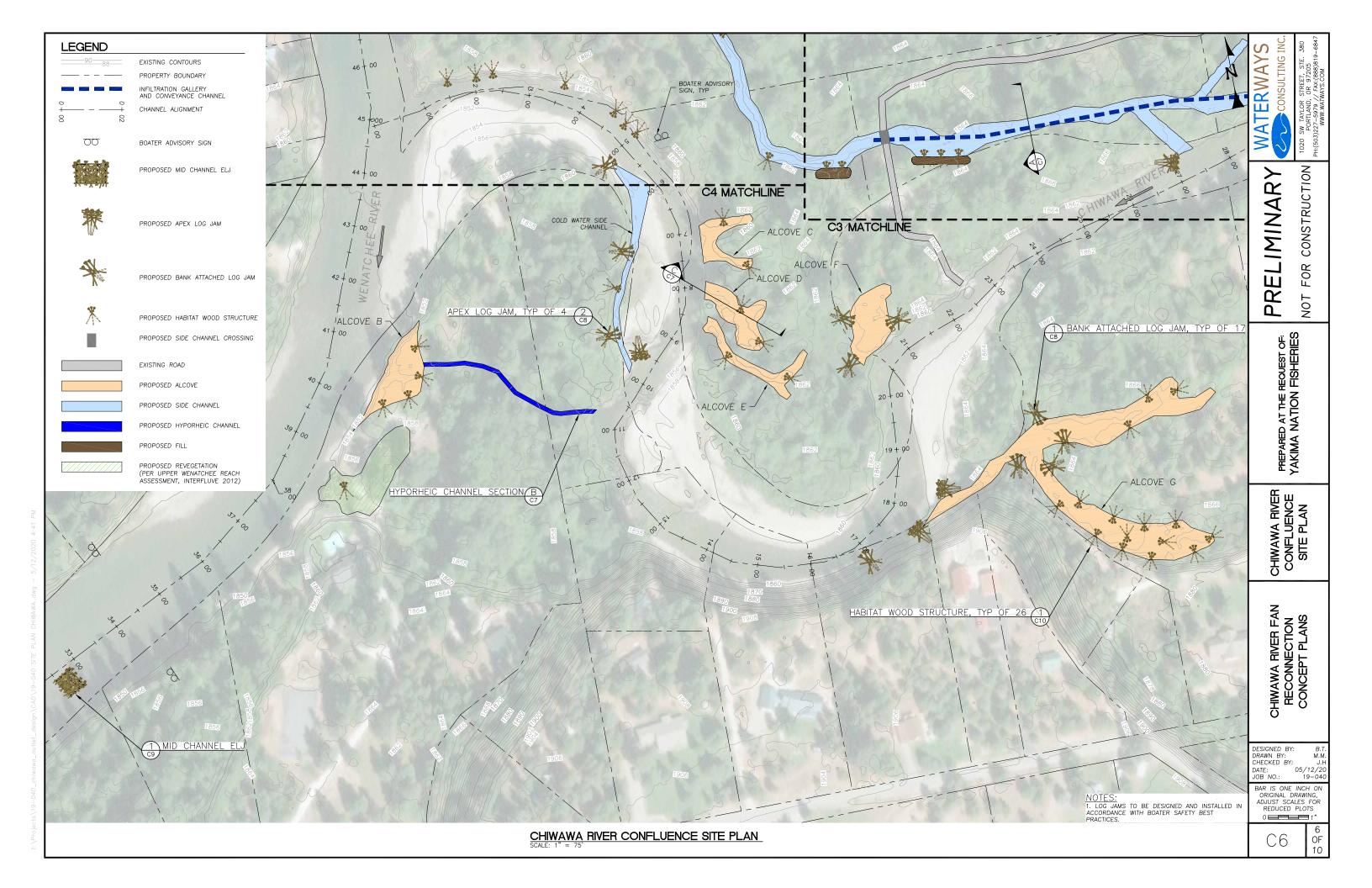
PREPARED AT THE REQUEST OF: YAKIMA NATION FISHERIES

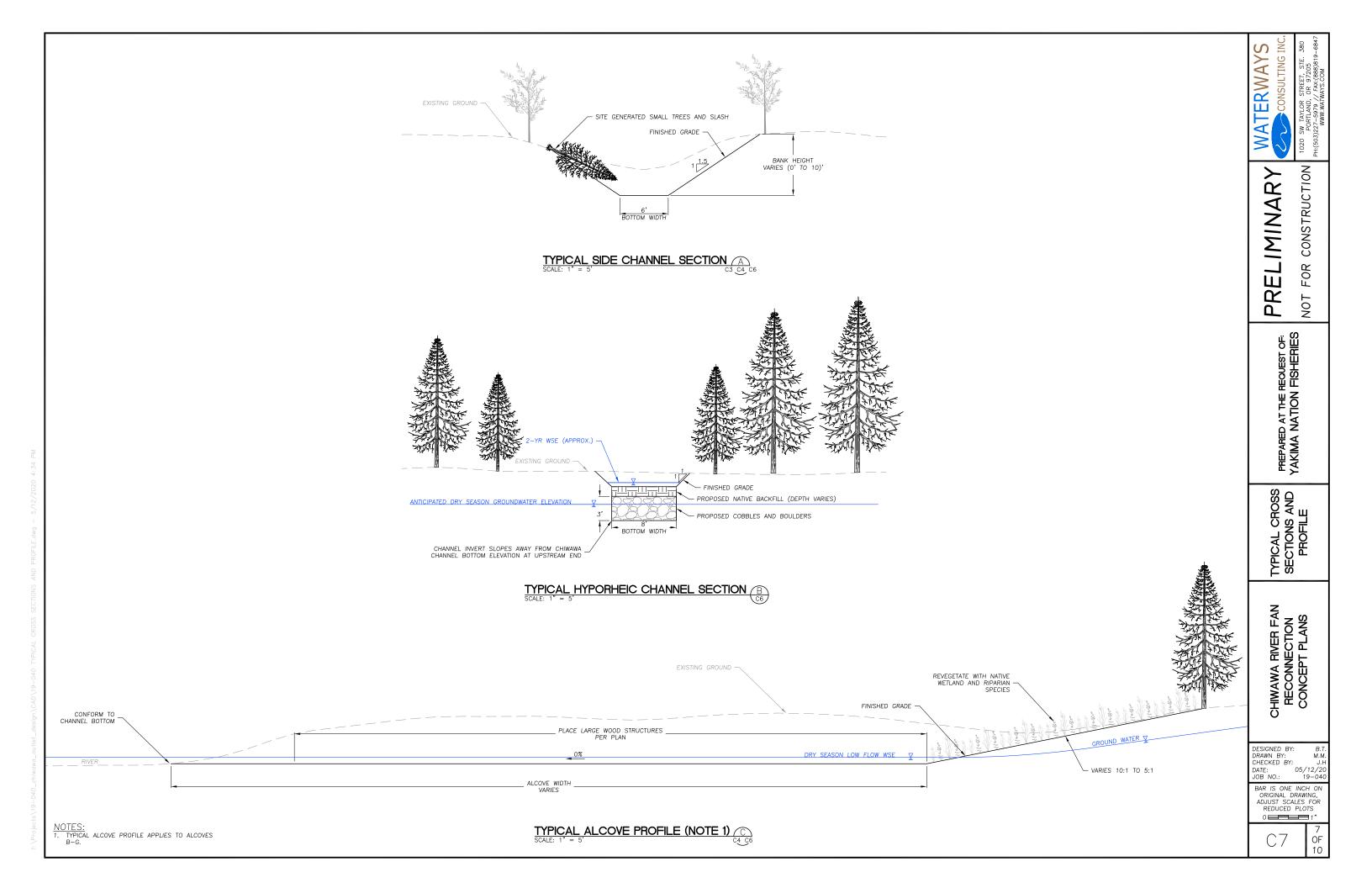
SIDE CHANNELS PROFILES AND SECTION

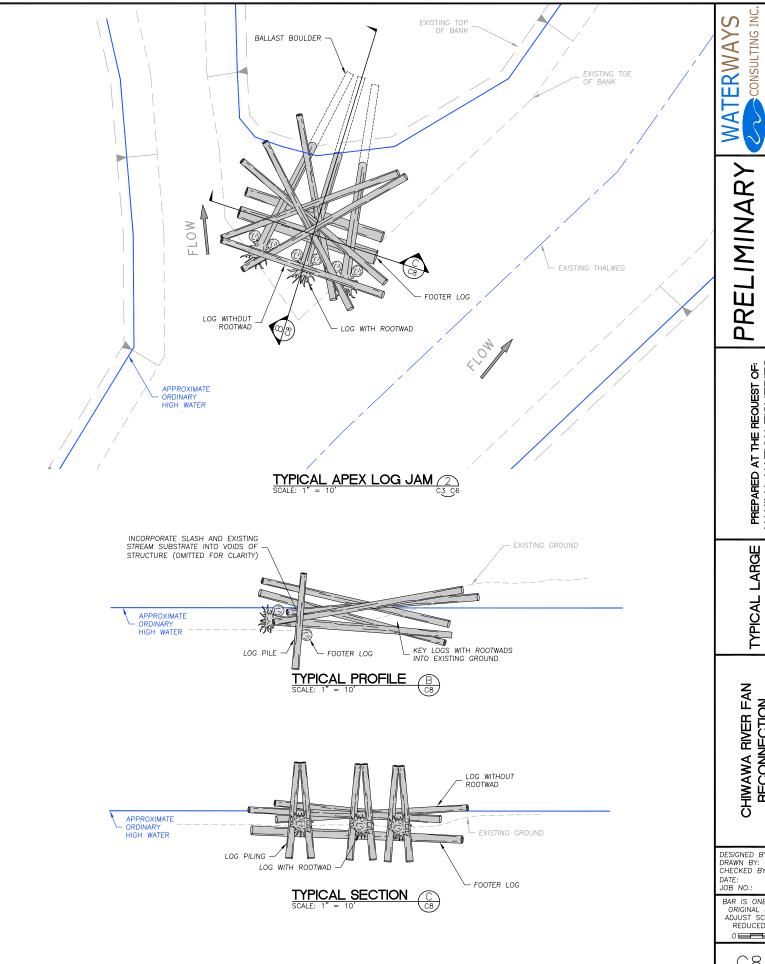
CHIWAWA RIVER FAN RECONNECTION CONCEPT PLANS

DESIGNED BY: DRAWN BY: CHECKED BY: DATE: C JOB NO.: 05/12/20 19-040

BAR IS ONE INCH ON ORIGINAL DRAWING, ADJUST SCALES FOR REDUCED PLOTS 0 - 1







DESIGNED BY: DRAWN BY: CHECKED BY: DATE: JOB NO.: Y: J.H 05/12/20 19-040

CHIWAWA RIVER FAN RECONNECTION CONCEPT PLANS

BAR IS ONE INCH ON ORIGINAL DRAWING, ADJUST SCALES FOR REDUCED PLOTS 0 1

CONSTRUCTION

FOR

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PREPARED AT THE REQUEST OF: YAKIMA NATION FISHERIES

TYPICAL LARGE WOOD DETAILS

