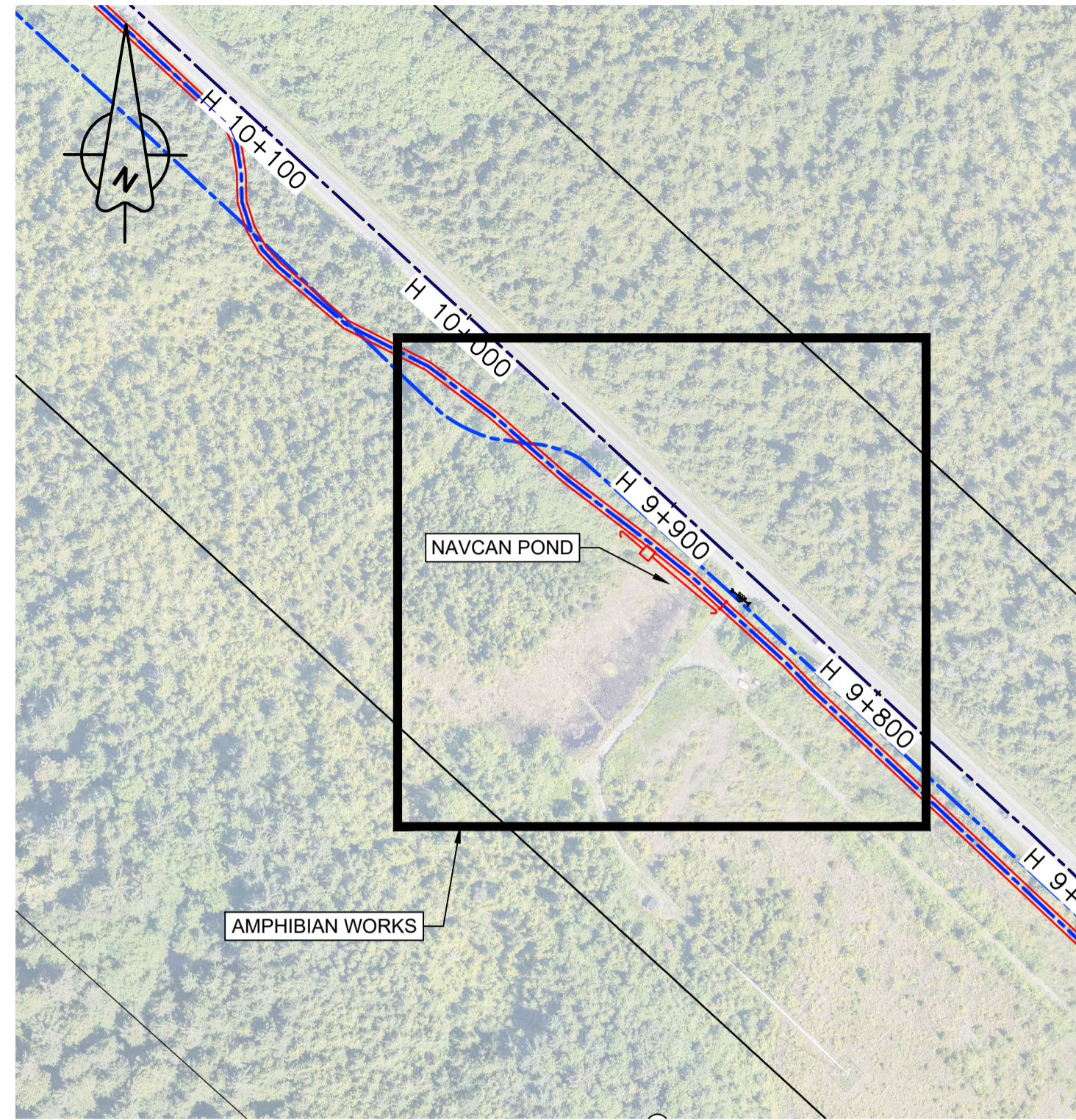


**PARSONS**



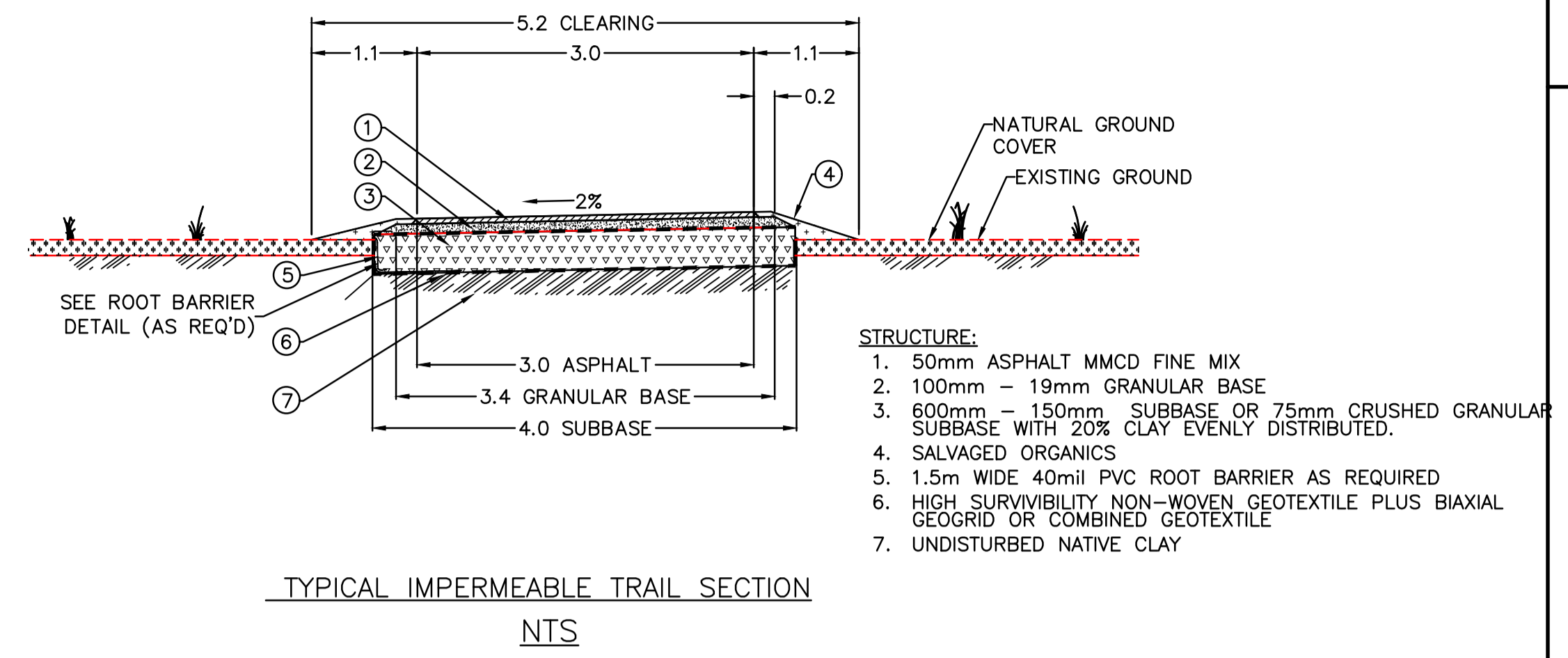
1:2000 0 40 120m LOCATION PLAN 1:2000

Sheet AC-2 Amphibian Protection	
Location:	Hwy #4 - Station H9+900 - H9+860 Trail - Station 22+440 - 22+480
Length:	40 metres
Comments:	Existing Pond Provides Important Habitat to Amphibians
Proposed Enhancements	
Trail footprint minimized and alignment adjusted for wetland area	
Minimize impacts to nutrient contributing wetland	

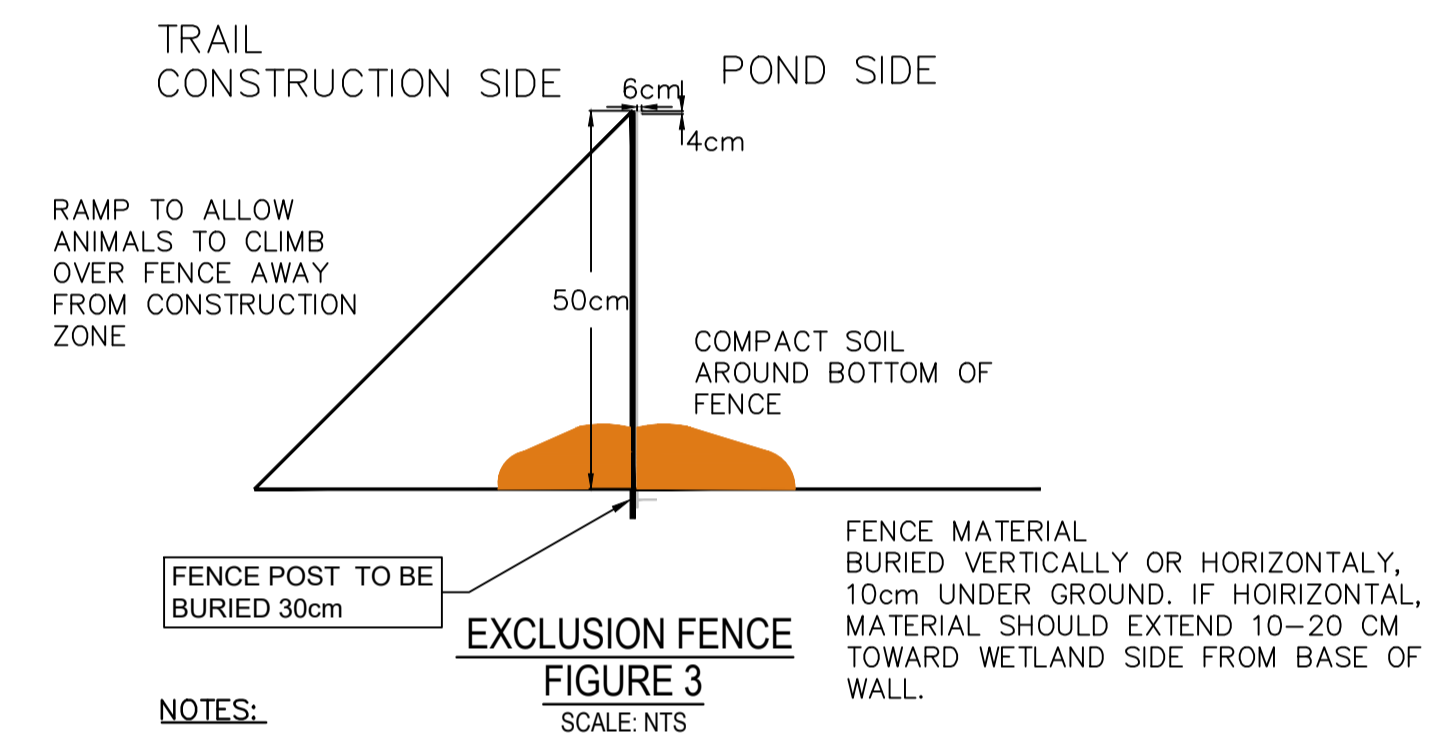
**NOTES:**

**MITIGATION NOTES:**

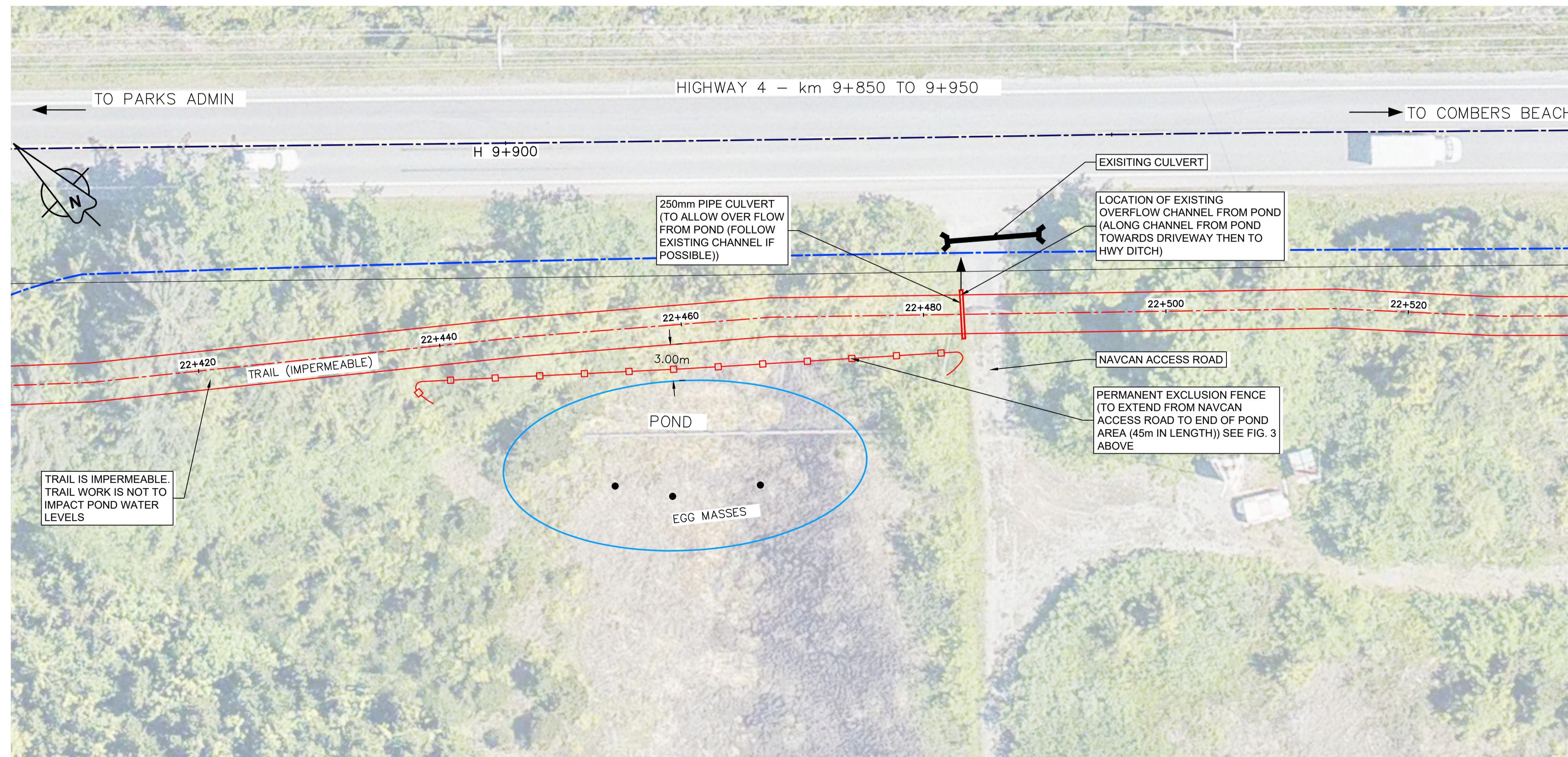
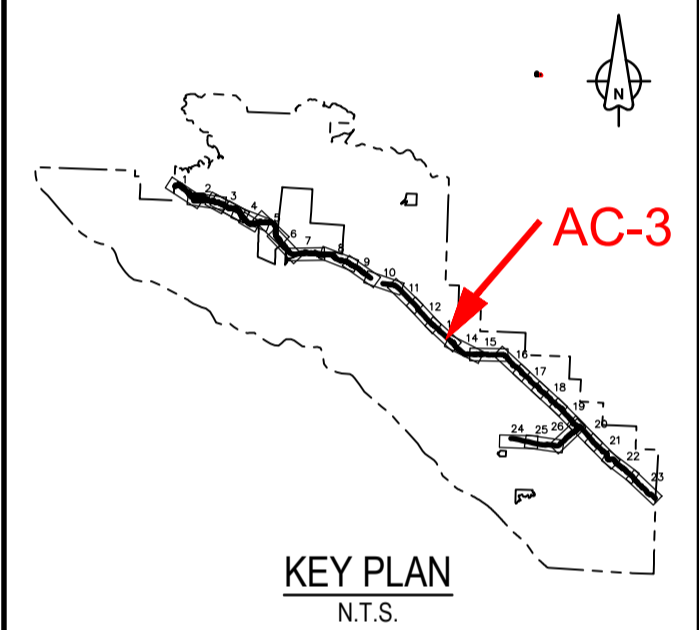
- CONDUCT CONSTRUCTION WORK DURING DRY WEATHER JULY TO MID SEPTEMBER. COMPLETE WORK IN LESS THAN 24 HOURS ALONG THE ~45 M OF TRAIL THAT RUNS ALONG THE POND.
- COORDINATE WITH THE OEM A MINIMUM OF 1 WEEK PRIOR TO STARTING CONSTRUCTION AT THIS SITE TO ALLOW SUFFICIENT TIME TO SET UP MITIGATION MEASURES.
- WORK WITH THE OEM TO INSTALL 45 M OF TEMPORARY EXCLUSION FENCING ALONG THE NORTH SIDE OF THE POND ADJACENT TO THE TRAIL TO KEEP METAMORPHS AND JUVENILE FROGS THAT ARE EMERGING FROM THE WETLAND FROM ENTERING THE CONSTRUCTION ZONE. FENCING SHOULD BE 50 CM TALL ABOVE GROUND WITH AN ADDITIONAL 10-20 CM BURIED UNDERGROUND. IF IT IS DIFFICULT TO DIG THE FENCE INTO THE GROUND, LAY 10-20 CM OF THE BOTTOM OF THE FENCE MATERIAL OVER THE SURFACE OF THE GROUND, ON THE WETLAND SIDE, AND THEN COVER IT WITH 10 CM OF DIRT. THIS WILL PREVENT AMPHIBIANS FROM BURROWING BENEATH IT WHEN THEY ARRIVE AT THE VERTICAL WALL OF THE FENCE. CREATE AN OVERHANGING LIP AT THE TOP OF THE FENCE BY BENDING THE TOP OF THE FENCE MATERIAL OVER TWICE SO THAT IT STICKS OUT 6 CM HORIZONTALLY AND DOWNWARD 4 CM VERTICALLY. POSTS SHOULD BE PLACED ALONG THE TRAIL CONSTRUCTION SIDE OF THE FENCE TO DETER CLIMBING. RAMPS OF MESH MATERIAL SHOULD BE POSITIONED EVERY 5 M ON THE TRAIL CONSTRUCTION SIDE OF THE FENCE TO ALLOW ANIMALS TO CLIMB OVER THE FENCE INTO THE POND. EACH END OF THE FENCE SHOULD BE CURVED OR BENT BACK TOWARD THE POND TO DIRECT AMPHIBIANS MOVING ALONG THE FENCE BACK TOWARD THE POND AND AWAY FROM THE TRAIL. SEE FIGURE 3 FOR FENCING SPECS, AND FIGURE 2 FOR THE APPROXIMATE LOCATION OF TEMPORARY FENCING.
- TRAIL ALIGNMENT SHOULD BE AT LEAST 3 M AWAY FROM HIGH WATER LINE OF THE POND TO PREVENT DRAINING THE POND DURING CONSTRUCTION. THIS BOUNDARY SHOULD BE FLAGGED BY THE OEM AND THE DEPARTMENTAL REPRESENTATIVE PRIOR TO CONSTRUCTION AT THIS SITE, WITH ASSISTANCE FROM THE AMPHIBIAN EXPERT AS NEEDED.



TYPICAL IMPERMEABLE TRAIL SECTION  
NTS



EXCLUSION FENCE  
FIGURE 3  
SCALE: NTS  
NOTES:  
1. THIS FENCE IS TO EXCLUDE AMPHIBIANS EMERGING FROM NAVCAN POND FROM ACCESSING THE ADJACENT TRAIL CONSTRAIN ZONE.



- NOTES:**
- WATER SHALL BE DIVERTED AROUND THE CONSTRUCTION SITE USING METHODS APPROVED BY OEM.
  - ALL MATERIALS USED SHALL BE FREE OF INVASIVE SPECIES.
  - RED SHOWS PROPOSED WORKS.
  - TRAIL IS IMPERMEABLE. TRAIL WORK IS NOT TO IMPACT POND WATER LEVELS.
  - INSTALLATION OF A PIPE TO PROVIDE/ MAINTAIN HIGH WATER OVER FLOW CONDITIONS FROM THE POND NEAR NAVCAN.
  - REFER TO D-SERIES DRAWINGS FOR CULVERT REQUIREMENTS.

Revision/	Description/Description	Date/Date
1	ISSUED FOR ADDENDUM	05/04/2019
0	ISSUED FOR REVIEW	27/02/2019

Client/client  
Parks Canada L'Agence Parcs  
Agency Canada  
Western and Northern Region Ouest et Nord du Canada

Project title/Titre du projet  
**TOFINO  
PACIFIC RIM  
NATIONAL PARK RESERVE  
?apsciik tasii  
(Ups-cheek ta-shee)  
"Going in the right  
direction on the trail"**

Designed by/Concept par  
DON CHALMERS / 2019-02  
Drawn by/Dessiné par  
ARI / 2019-02  
PCA Project Manager/Technical Authority  
Administrateur de Projets APC  
JACKIE HICKS

Drawing title/Titre du dessin  
**?apsciik tasii (Ups-cheek ta-shee)  
"Going in the right direction on the  
trail"  
CONSTRUCTION PLAN  
AMPHIBIAN PROTECTION  
NAVCAN POND (RED-LEGGED FROGS)  
HIGHWAY 4 STA H9+900 TO 9+860**

Project No./No. du projet <b>PCA #1522</b>	Sheet/Fauille <b>AC-3</b> OF 15	Revision no./ Lo Révision no. <b>1</b>
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