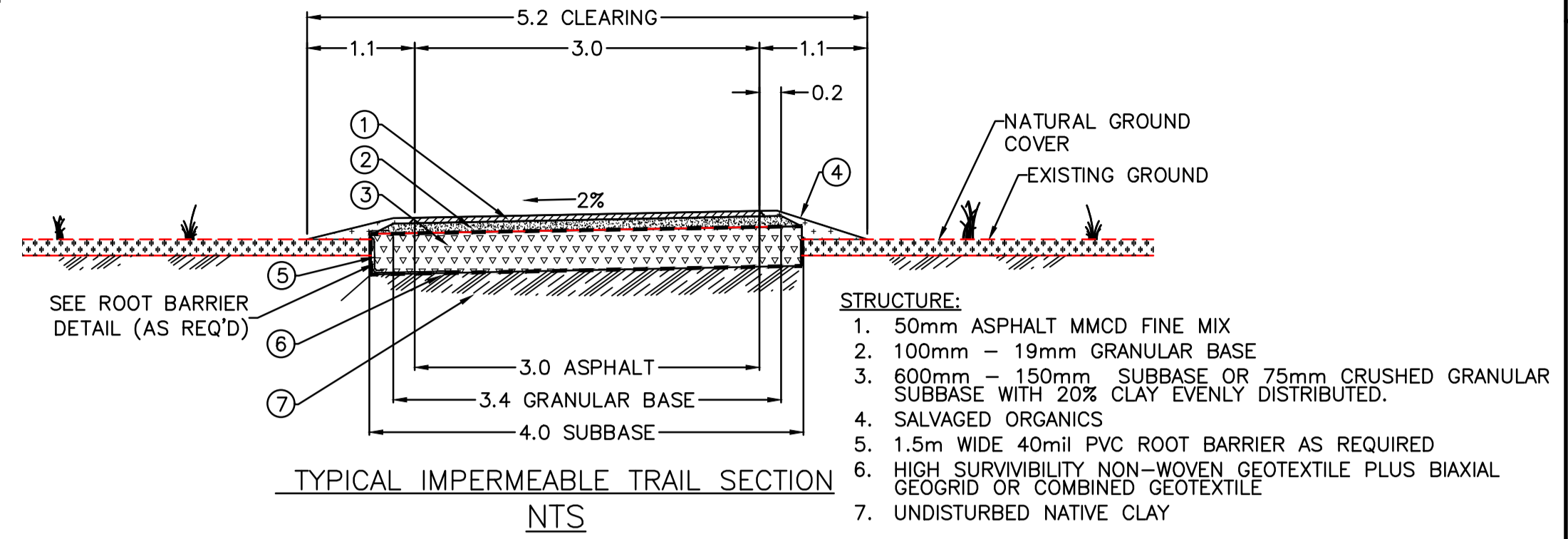


NOTES:

1. WATER SHALL BE DIVERTED AROUND THE CONSTRUCTION SITE USING METHODS APPROVED BY OEM.
2. ALL MATERIALS USED SHALL BE FREE OF INVASIVE SPECIES.
3. RED SHOWS PROPOSED WORKS.
4. REFER TO D-SERIES DRAWINGS FOR CULVERT REQUIREMENTS.

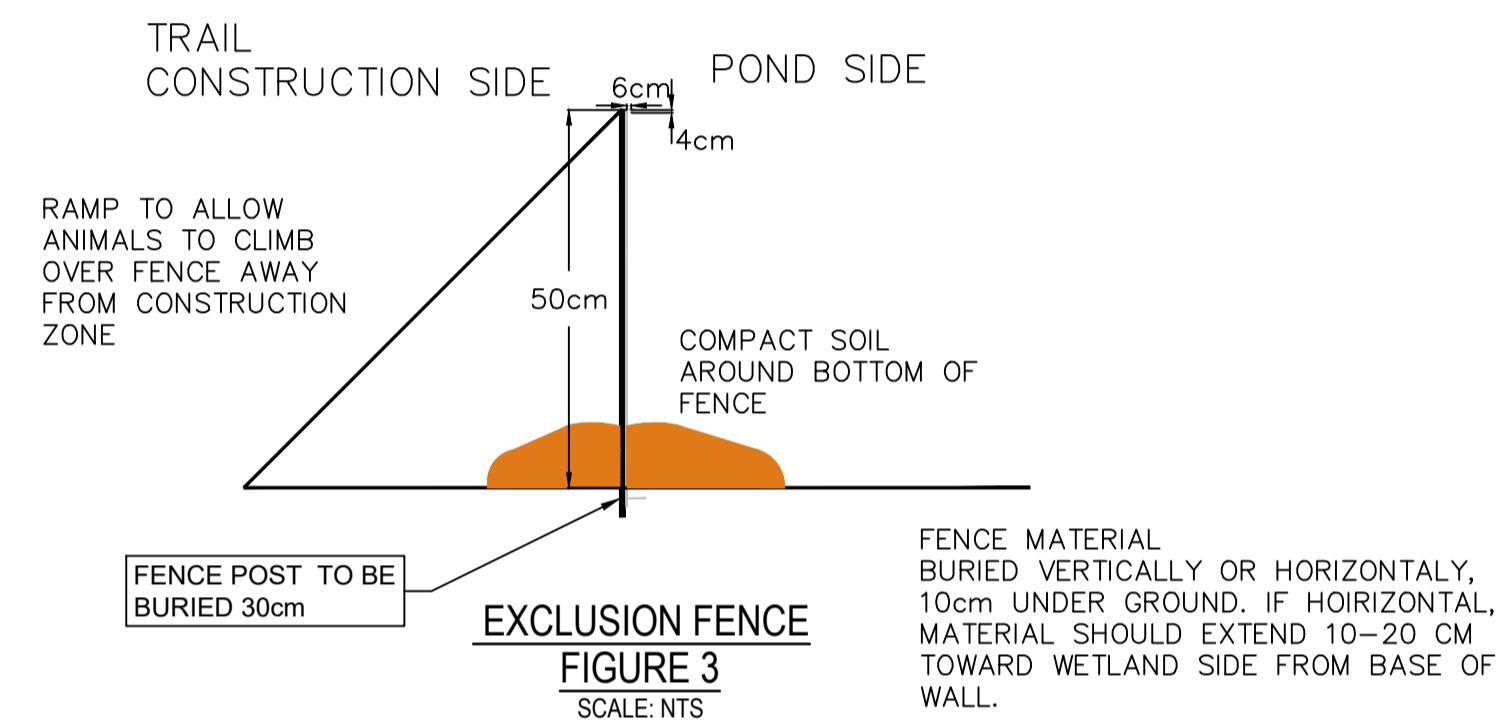


Sheet AC-2 Amphibian Protection

Location:	Hwy #4 - Station H15+050 - H14+980 Trail - Station 17+060 - 17+130
Length:	70 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	

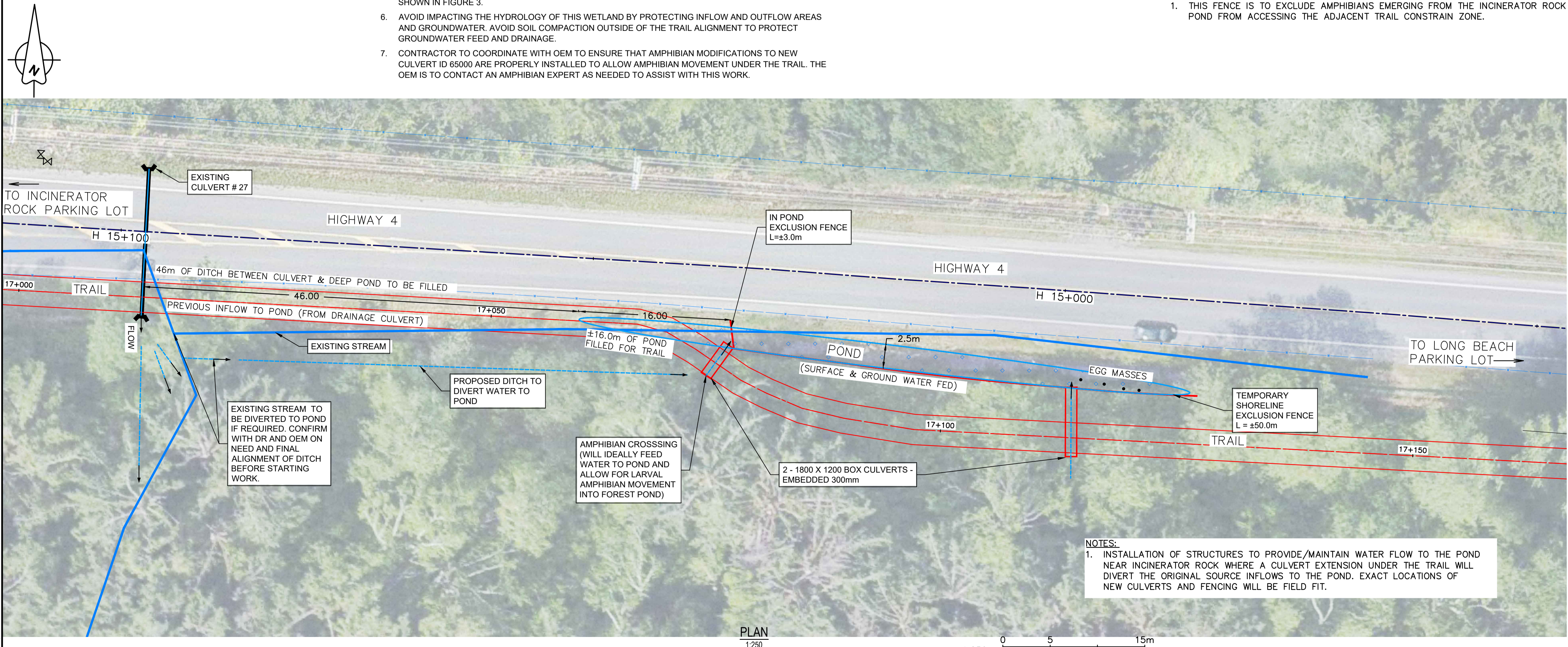
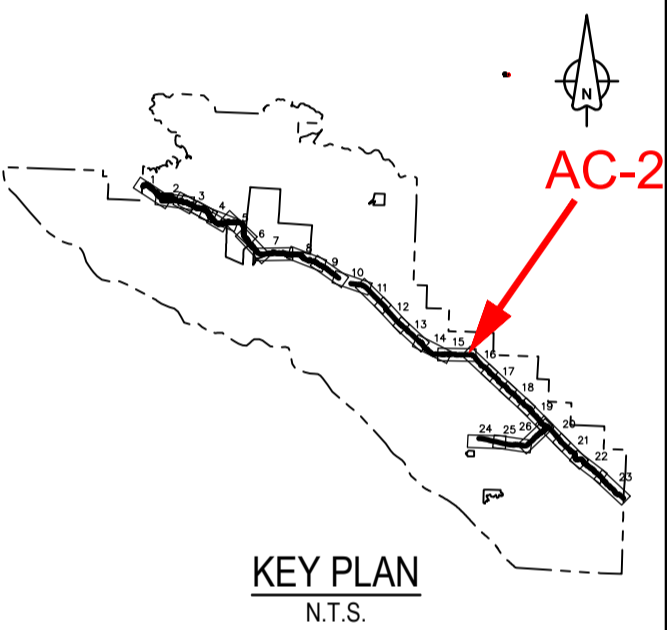
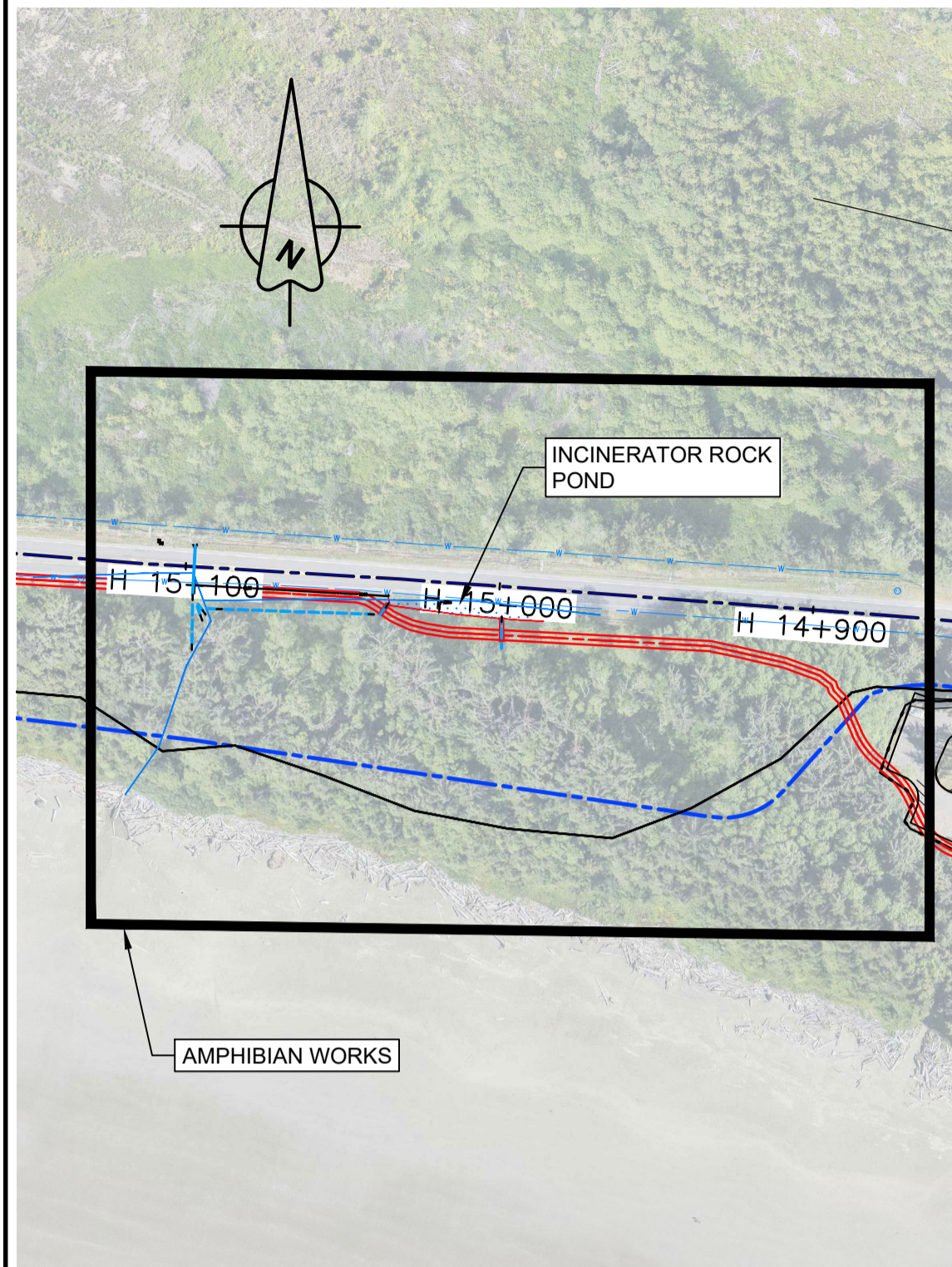
MITIGATION NOTES:

1. CONDUCT CONSTRUCTION WORK DURING DRY WEATHER, JULY TO MID-SEPTEMBER, TO MINIMIZE IMPACTS TO AMPHIBIANS AND THEIR HABITATS. COMPLETE WORK IN LESS THAN 24 HOURS ALONG THE 150 M OF TRAIL THAT RUNS FROM THE EXISTING DRAINAGE CULVERT TO AND ALONG THE WETLAND, IF POSSIBLE, TO MINIMIZE POTENTIAL FOR AMPHIBIAN MORTALITIES.
2. COORDINATE WITH THE OEM A MINIMUM OF 1 WEEK PRIOR TO STARTING CONSTRUCTION AT THIS LOCATION TO ALLOW ENOUGH TIME TO COMPLETE AMPHIBIAN SALVAGE.
3. CONTRACTOR TO WORK WITH THE OEM TO INSTALL TEMPORARY EXCLUSION FENCING WITHIN THE POND TO KEEP AQUATIC AMPHIBIANS FROM ENTERING THE CONSTRUCTION 'IMPACT' ZONE OF THE POND AND DITCH. POND IS APPROXIMATELY 65 M LONG, 2.5 M WIDE, AND HOLDS WATER 40-60 CM DEEP (DURING HIGH WATER PERIODS). T₈ INDICATES THAT APPROXIMATELY 16 M OF THE POND, AT THE WEST END, WILL BE FILLED FOR THE TRAIL CONSTRUCTION. APPROXIMATELY 46 M OF DITCH, WEST OF THE POND TO THE EXISTING DRAINAGE CULVERT, WILL ALSO BE FILLED. NOTE THAT THE POND HIGH WATER LINE / SHORELINE (I.E., POND HABITAT VERSUS DITCH LINE) IS DEFINED BY THE SEDGE VEGETATION.
4. IF WATER OR WET MUD IS PRESENT AT THE TIME OF CONSTRUCTION WITHIN THE 16-M POND AREA THAT WILL BE IN-FILLED, THE OEM IS TO COMPLETE AMPHIBIAN SALVAGE UNDER THE GUIDANCE OF AN AMPHIBIAN EXPERT, USING STANDARD TECHNIQUES, TO CAPTURE AMPHIBIANS FROM THE 'IMPACT ZONE' OF THE WETLAND AND MOVE THEM INTO THE 'RELEASE ZONE' OF THE WETLAND.
5. CONTRACTOR TO WORK WITH THE OEM TO INSTALL APPROXIMATELY 50 M OF TEMPORARY EXCLUSION FENCING ALONG THE SOUTH SIDE OF THE DITCH POND ADJACENT TO THE TRAIL TO KEEP SALAMANDERS AND FROGS FROM ENTERING THE CONSTRUCTION ZONE. DETAILS FOR APPROPRIATE FENCING ARE SHOWN IN FIGURE 3.
6. AVOID IMPACTING THE HYDROLOGY OF THIS WETLAND BY PROTECTING INFLOW AND OUTFLOW AREAS AND GROUNDWATER. AVOID SOIL COMPACTION OUTSIDE OF THE TRAIL ALIGNMENT TO PROTECT GROUNDWATER FEED AND DRAINAGE.
7. CONTRACTOR TO COORDINATE WITH OEM TO ENSURE THAT AMPHIBIAN MODIFICATIONS TO NEW CULVERT ID 65000 ARE PROPERLY INSTALLED TO ALLOW AMPHIBIAN MOVEMENT UNDER THE TRAIL. THE OEM IS TO CONTACT AN AMPHIBIAN EXPERT AS NEEDED TO ASSIST WITH THIS WORK.



NOTES:

1. THIS FENCE IS TO EXCLUDE AMPHIBIANS EMERGING FROM THE INCINERATOR ROCK POND FROM ACCESSING THE ADJACENT TRAIL CONSTRAIN ZONE.



NOTES:

1. INSTALLATION OF STRUCTURES TO PROVIDE/MAINTAIN WATER FLOW TO THE POND NEAR INCINERATOR ROCK WHERE A CULVERT EXTENSION UNDER THE TRAIL WILL DIVERT THE ORIGINAL SOURCE INFLOWS TO THE POND. EXACT LOCATIONS OF NEW CULVERTS AND FENCING WILL BE FIELD FIT.

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
ᑭᐱᓂᓕᓕᓕ ᓂᓂᓕᓕ
(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
**ᑭᐱᓂᓕᓕᓕ ᓂᓂᓕᓕ (Ups-cheek ta-shee)
"Going in the right direction on the
trail"
CONSTRUCTION PLAN
AMPHIBIAN PROTECTION
INCINERATOR ROCK POND HIGHWAY 4
STA H15+050 TO H14+980**

Project No./No. du projet PCA #1522	Sheet/Fauille AC-2 OF 15	Revision no./ Lo Révision no. 1
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DATE: 2019-04-04 10:53 AM BY: PCH/ARZC PLOTTED ON: 2019/04/04 10:53 AM PLOT: SHEETS AC-2.DWG

