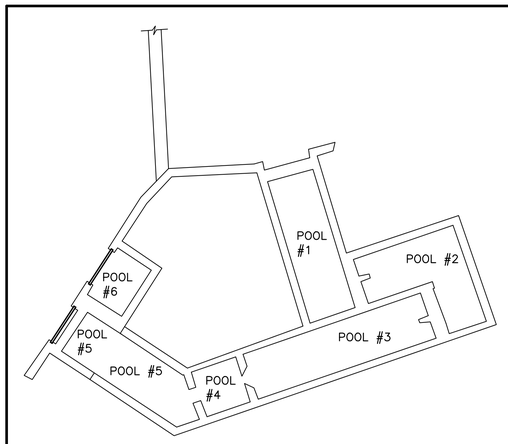
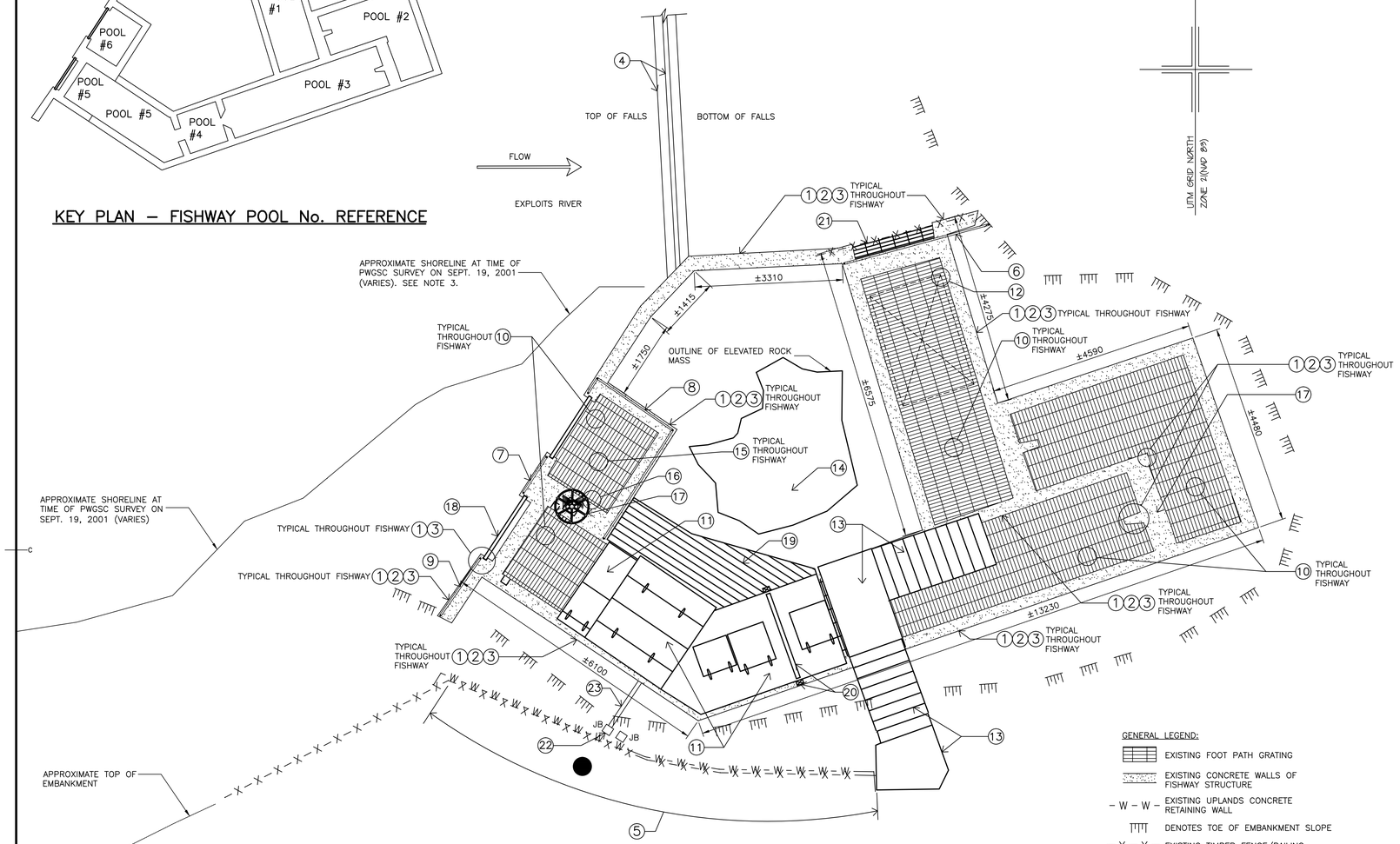


KEY PLAN – FISHWAY POOL No. REFERENCE



GENERAL LEGEND:

- EXISTING FOOT PATH GRATING
- EXISTING CONCRETE WALLS OF FISHWAY STRUCTURE
- – W – W – EXISTING UPLANDS CONCRETE RETAINING WALL
- DENOTES TOE OF EMBANKMENT SLOPE
- – X – X – EXISTING TIMBER FENCE/RAILING
- EXISTING LIGHT POLE
- (10) REFERENCE TAG FOR REPAIR SUMMARY TABLE ON THIS SHEET
- JB JUNCTION BOX MOUNTED TO CONCRETE RETAINING WALL

GENERAL NOTES:

1. DO NOT SCALE FROM DRAWINGS, USE DIMENSIONS SHOWN.
2. ALL DIMENSIONS SHOWN ON DRAWINGS ARE IN MILLIMETERS. ALL ELEVATIONS AND STATIONS ARE IN METERS UNLESS SPECIFIED OTHERWISE.
3. IT SHOULD BE NOTED THAT THE RIVER WATER LEVEL DOES SIGNIFICANTLY CHANGE AND CAN LARGELY EXCEED THE RECORDED LEVEL INDICATED DURING THE TIME OF THE SURVEY. THE CONTRACTOR SHALL ASSUME WORST CASE CONDITIONS AND BARE ALL COSTS NECESSARY TO COMPLETE THE WORK UNDER THE VARYING FLUCTUATIONS. ADDITIONAL INFORMATION REGARDING THE RIVER WATER LEVEL FLUCTUATIONS MAYBE AVAILABLE THROUGH THE DEPARTMENT OF FISHERIES AND OCEANS – HYDRO, FLOWS AND LINEAR DEVELOPMENT DEPARTMENT.

REPAIR SUMMARY

ITEM	DESCRIPTION	REFERENCE	ESTIMATED QUANTITY
(1)	DEEP CONCRETE REPAIRS: REPAIRS TO ANY DETERIORATED CONCRETE SURFACES AND/OR EDGES ON THE EXISTING FISHWAY STRUCTURE WITH GREATER THAN 25 mm BEYOND FINISHED SURFACE OR EDGE TO SOUND CONCRETE SHALL BE CONSIDERED A DEEP REPAIR. ACTUAL AREAS AND LOCATIONS OF DETERIORATED CONCRETE TO BE REPAIRED SHALL BE CONFIRMED ONSITE WITH THE DEPARTMENTAL REPRESENTATIVE. AT NO TIME SHALL THE REPAIR QUANTITY STIPULATED IN THE UNIT PRICE TABLE BE EXCEEDED WITHOUT PRIOR APPROVALS FROM THE DEPARTMENTAL REPRESENTATIVE.	SHEET C3 DETAILS 1, 5 AND 6	SURFACE REPAIR 40m² EDGE REPAIR 30m
(2)	REPAIR CRACKS IN SOUND CONCRETE. ACTUAL AREAS AND LOCATIONS TO BE CONFIRMED ONSITE WITH DEPARTMENTAL REPRESENTATIVE. AT NO TIME SHALL THE REPAIR QUANTITY STIPULATED IN THE UNIT PRICE TABLE BE EXCEEDED WITHOUT PRIOR APPROVALS FROM THE DEPARTMENTAL REPRESENTATIVE.	SHEET C3 DETAIL 3	75m
(3)	SHALLOW CONCRETE REPAIRS: REPAIRS TO ANY DETERIORATED CONCRETE SURFACES AND/OR EDGES ON THE EXISTING FISHWAY STRUCTURE WITH 25mm OR LESS FROM THE FINISHED SURFACE OR EDGE TO SOUND CONCRETE SHALL BE CONSIDERED A SHALLOW REPAIR. ACTUAL AREAS AND LOCATIONS OF DETERIORATED CONCRETE TO BE REPAIRED SHALL BE CONFIRMED ONSITE WITH THE DEPARTMENTAL REPRESENTATIVE. AT NO TIME SHALL THE REPAIR QUANTITY STIPULATED IN THE UNIT PRICE TABLE BE EXCEEDED WITHOUT PRIOR APPROVALS FROM THE DEPARTMENTAL REPRESENTATIVE.	SHEET C3 DETAIL 2	SURFACE REPAIR 60m² EDGE REPAIR 50m
(4)	EXISTING CONCRETE DAM AND WOODEN DIVERSION WALL TO REMAIN	SHEET C2	———
(5)	REMOVE AND REPLACE EXISTING TIMBER RAILING ALONG THE TOP OF BANK WITH NEW GALVANIZED STEEL PIPE.	SHEET C4 DETAIL 4 AND SHEET C6 DETAIL 9	10m
(6)	REMOVE AND REPLACE EXISTING PIPE RAILING ON FISHWAY WITH NEW.	SHEET C4 DETAIL 1, 4, 5	3.3m
(7)	REMOVE AND REPLACE EXISTING PIPE RAILING ON FISHWAY WITH NEW.	SHEET C4 DETAIL 1, 4, 5	1m
(8)	REMOVE AND REPLACE EXISTING PIPE RAILING ON FISHWAY WITH NEW.	SHEET C4 DETAIL 1, 4, 5	5.3m
(9)	REMOVE AND REPLACE EXISTING PIPE RAILING ON FISHWAY WITH NEW.	SHEET C4 DETAIL 1, 4, 5	1.7m
(10)	REMOVE ALL EXISTING FOOT PATH GRATING AND EXISTING STEEL SUPPORTS AND REPLACE WITH ALL NEW STEEL GALVANIZED GRATING, STEEL SUPPORTS AND FASTENERS. EXISTING EMBEDDED GRATING SUPPORTS AND FASTENERS SHALL BE REMOVED NO LESS THAN 50mm BEYOND THE FINISHED CONCRETE SURFACE AND REPAIRED IN ACCORDANCE WITH THE CONCRETE REPAIR PROCEDURES. FOR THE REINSTALLATION OF THE TIMBER TRAP WITH ENCLOSURE, NEW GRATING IN AREA OF POOL No. 4 AND 5 (WITHIN THE FOOT PRINT OF TIMBER TRAP AREA) SHALL BE FITTED, LABELED, REMOVED AND STORED ONSITE AS DIRECTED BY THE DEPARTMENTAL REPRESENTATIVE.	SHEET C4 AND SHEET C6 DETAIL 7	52m²
(11)	COMPLETELY REMOVE AND REINSTALL EXISTING TIMBER COUNTING TRAP INCLUDING ENCLOSURE IN COORDINATION WITH DEPARTMENTAL REPRESENTATIVE. REPLACE ALL DAMAGED PORTIONS OF THE TRAP THAT MAY OCCUR DURING REMOVAL TO APPROVAL OF DEPARTMENTAL REPRESENTATIVE. STORE IN A SAFE AND SECURE AREA UNTIL READY FOR REINSTALLATION.	SHEET C2	———
(12)	REMOVE AND REPLACE EXISTING FISHWAY FLOOR GRATING AT POOL No.1 IN THE AREA OF THE OUTLET FEED FROM THE ATTRACTION FLOW PIPE SYSTEM.	SHEET C6 DETAILS 5 AND 6	6m²
(13)	REMOVE AND REPLACE EXISTING TIMBER STAIRCASE AND LANDINGS.	SHEET C5 & C6	———
(14)	REMOVE PORTION OF ROCK OUT–CROP TO FACILITATE NEW STAIRCASE CONSTRUCTION	SHEET C5 DETAIL 1	———
(15)	REMOVE ALL DEBRIS IN EACH POOL INCLUDING DEBRIS ON THE SCREENS AND RACKS	SHEET C2	———
(16)	REMOVE ALL DEBRIS FROM THE ATTRACTION FLOW SCREEN IN POOL #6	SHEET C2	———
(17)	EXISTING VALVE ASSEMBLE TO REMAIN	SHEET C2	———
(18)	REMOVE EXISTING TRASH RACK AND REPLACE WITH NEW	SHEET C6	———
(19)	EXISTING TIMBER DECK CONSTRUCTED ON GRADE TO REMAIN WITH A PORTION REMOVED AS REQUIRED TO FACILITATE NEW STAIR CONSTRUCTION	SHEET C2	———
(20)	COMPLETELY REMOVE AND REINSTALL EXISTING TIMBER HOIST IN COORDINATION WITH THE DEPARTMENTAL REPRESENTATIVE. REPLACE ANY DAMAGED PORTION TO APPROVAL OF THE DEPARTMENTAL REPRESENTATIVE. STORE IN A SAFE AND SECURE AREA UNTIL READY FOR REINSTALLATION.	SHEET C2	———
(21)	EXISTING TIMBER FENCE/RAILING ALONG ENTRANCE TO POOL No. 1 SHALL BE REMOVED ALONG WITH ALL POST SUPPORTS AND CONCRETE ANCHORS TO APPROVAL OF THE DEPARTMENTAL REPRESENTATIVE. ALL NECESSARY CONCRETE REPAIRS TO BE COMPLETED IN ACCORDANCE WITH SHEET C4.	SHEET C2, C4 AND C6 (DETAIL 7)	———
(22)	EXISTING ELECTRICAL JUNCTION BOXES TO REMAIN	SHEET C2	———
(23)	EXISTING SURFACE MOUNTED CONDUIT WITH POWER AND DATA SUPPLY TO FISH TRAP. REMOVE AND REINSTALL AS REQUIRED TO COMPLETE THE NEW WORK. ALL ELECTRICAL WORK TO BE COMPLETED IN ACCORDANCE WITH THE ELECTRICAL CODE OF CANADA.	SHEET C2	———

TABLE NOTES:

A. DEPARTMENTAL REPRESENTATIVE TO LOCATE AND CONFIRM REPAIR AREAS IN FIELD WITH CONTRACTOR PRIOR TO THE START OF THE INDICATED WORK ITEM. ESTIMATED QUANTITIES ABOVE ARE TO BE CONSIDERED APPROXIMATE BUT SHALL NOT BE EXCEEDED UNLESS APPROVED BY THE DEPARTMENTAL REPRESENTATIVE..

B. IF A DISCRIPENCE EXISTS BETWEEN THE ESTIMATE QUANTITIES LISTED ABOVE AND THE QUANTITIES STIPULATED ON THE UNIT PRICE TABLE, THE UNIT PRICE TABLE SHALL GOVERN.

C. REFER TO APPENDIX B – IN SPECIFICATIONS FOR SOME REFERENCE PHOTOS OF ITEMS LISTED ABOVE.

1/2 2/2 EXISTING PLAN – GENERAL ARRANGEMENT

SCALE: 1:50

0m 1m 2m 3m 4m 5m

0 10 20mm 40 60 80 100 120 140 160 180 200mm

Public Works and Government Services Canada / Travaux Publics et Services gouvernementaux Canada

PROVINCE OF NEWFOUNDLAND AND LABRADOR
PEGL Newfoundland and Labrador
PERMIT HOLDER
This Permit Allows
Meridian Engineering Inc.
To practice Professional Engineering in Newfoundland and Labrador.
Permit No. as issued by PEGNL N0453
which is valid for the year 2015.

REGISTERED PROFESSIONAL ENGINEER
PEGL Newfoundland and Labrador
LEO M. BENNETT
REGISTERED
15/10/22
NEWFOUNDLAND & LABRADOR

C	ISSUED FOR TENDER	15/10/22
B	ISSUED FOR 99% REVIEW	15/10/09
A	ISSUED FOR 66% REVIEW	15/09/22
revisions		date

project / projet

BISHOP'S FALLS FISHWAY UPGRADES

drawing / dessin

EXISTING CONDITIONS GENERAL ARRANGEMENT

designed L. BENNETT / conçu
date AUG, 2015
drawn P. STAGG / dessiné
date AUG, 2015
approved / approuvé
Gary MacGillivray Oct 23, 2015
date
Tender / Soumission
PWGSC Project Manager / Administrateur de projets TPSGC
project number / no. du projet
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C02

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