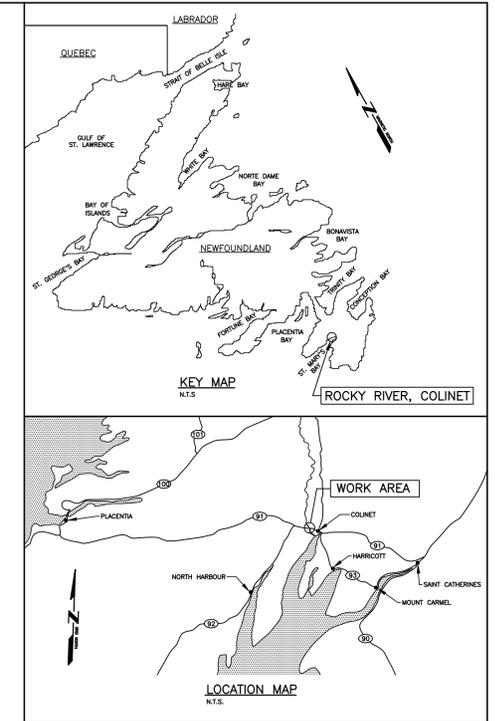


ROCKY RIVER FISHWAY DIVERSION WALL 2019 COLINET, NEWFOUNDLAND PROJECT No. F6879-191003 ISSUED FOR TENDER



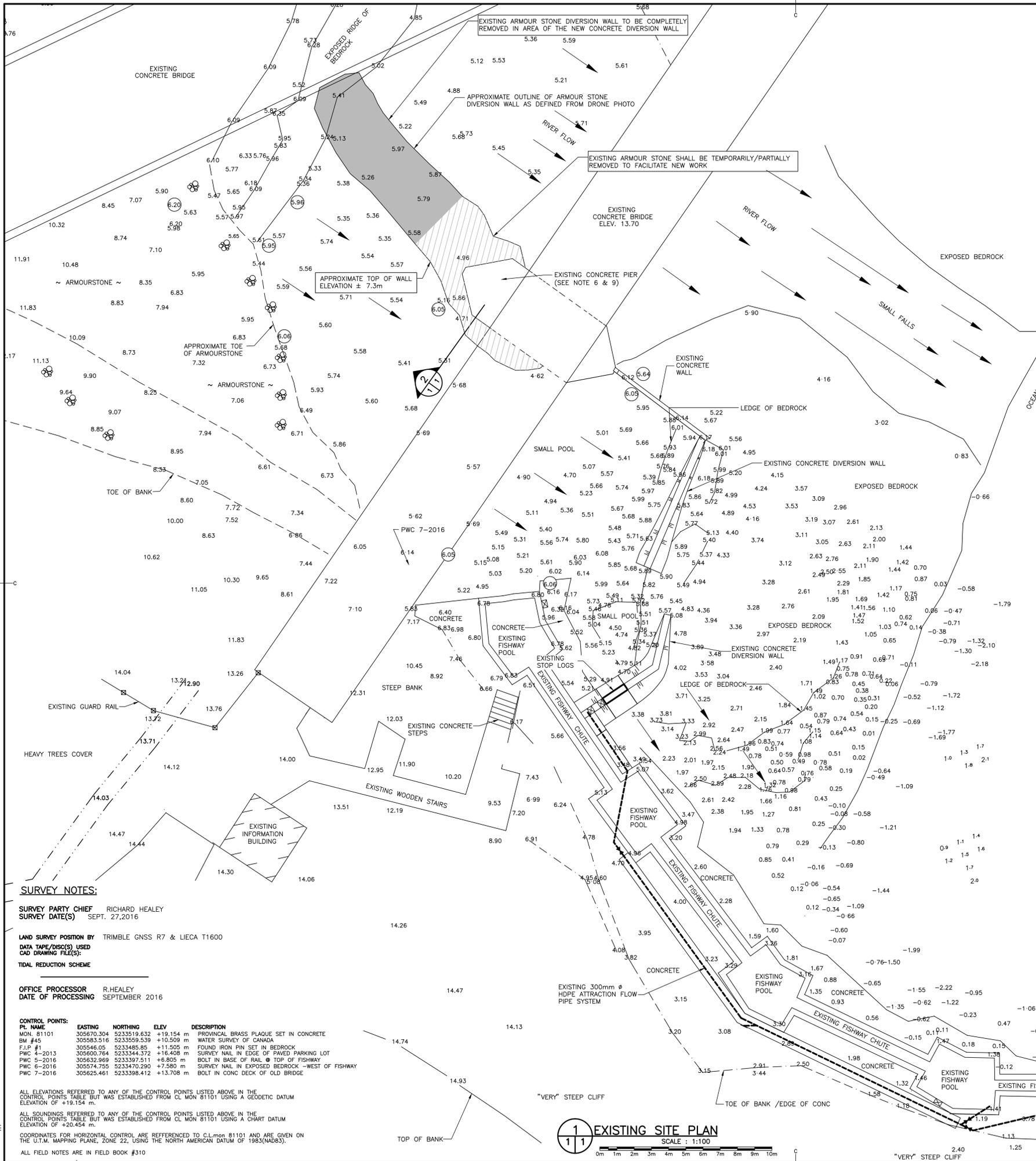
LIST OF DRAWINGS:

- C1 OF 4 EXISTING SITE PLAN WITH DEMOLITION
- C2 OF 4 NEW SITE PLAN
- C3 OF 4 DIVERSION WALL – PROFILE AND SECTIONS
- C4 OF 4 DIVERSION WALL – DETAILS

PREPARED FOR



DEPARTMENT OF FISHERIES AND OCEANS

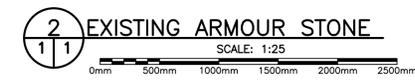
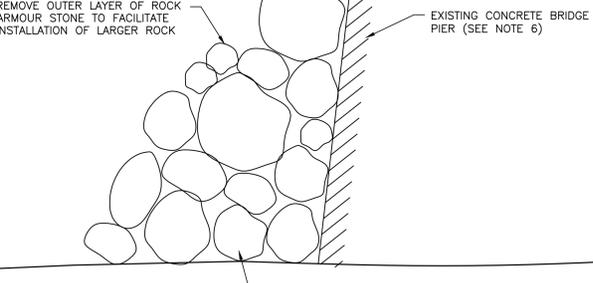


- SURVEY LEGEND:**
- SYMBOLS**
- ACQUANTURE
 - ANCHOR BLOOD
 - BOLLARD
 - BOREROLE
 - BOUNDARY MARKER
 - CARD POSITION BODY
 - CATCH BASIN
 - CLEAT
 - CLUBPOST
 - CONCRETE
 - DISPOSAL
 - DREDGE CONTROL
 - ELECTRICAL OUTLET
 - FIRE HYDRANT
 - FIRST AID
 - FISH HANDLING EQUIP.
 - FOG HORN
 - FUEL PUMP
 - IR FILE
 - HORIZONTAL CONTROL
 - ICE PLANT
 - INLET PIPE
 - IR CONIC
 - FLAG POLE
- LINE TYPE**
- ARMOUR STONE
 - CL MARKING
 - DRAIN PIPE
 - EDGE ROAD / SHOULDER
 - FENCE LINE
 - FLUORINE MARKER
 - GUARD RAIL
 - HIGH WATER MARK
 - LOW WATER MARK
- SYMBOLS**
- LAZER
 - LIFE RING
 - LIGHT STANDARD
 - MANHOLE
 - MARSH
 - MACE/TOWER
 - NAVIGATION LIGHT
 - OBSERVED SWAY BODY
 - PIPE FILE
 - RANGE LIGHT EXTENSION
 - SAFETY POST
 - SEWER OUTFLOW PIPE
 - SOIL
 - TELEPHONE
 - TELEPHONE POLE
 - TRUCK GAUGE/STAFF
 - TRIP
 - UTILITY POLE
 - VERTICAL CONTROL
 - WATER TAP/OUTLET
 - WATER VALVE
 - WATER WELL
 - WOOD PILE
- GENERAL LEGEND:**
- RIVER FLOW DIRECTION
 - EXISTING SURVEY ELEVATION POINT
 - WATER LEVEL ELEVATION POINT AT TIME OF SURVEY (SEPTEMBER 27, 2016) - SEE NOTE 4 & 8
 - DENOTES EXISTING ARMOUR STONE DIVERSION WALL TO BE COMPLETELY REMOVED
 - EXISTING ATTRACTION FLOW SYSTEM WITH CONCRETE ENCASUREMENT
 - DENOTES EXISTING ARMOUR STONE TEMPORARILY/PARTIALLY REMOVED TO FACILITATE NEW WORK

- GENERAL NOTES:**
- ALL DIMENSIONS IN MILLIMETERS UNLESS SPECIFIED OTHERWISE.
 - ALL ELEVATIONS IN METERS.
 - DO NOT SCALE FROM DRAWINGS, USE DIMENSIONS AS SHOWN.
 - IT SHOULD BE NOTED THAT 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 BEAR ALL COSTS NECESSARY TO COMPLETE THE WORK UNDER THE VARYING FLUCTUATIONS. ADDITIONAL INFORMATION REGARDING THE RIVER WATER LEVEL FLUCTUATIONS MAY BE AVAILABLE THROUGH THE DEPARTMENT OF MUNICIPAL AFFAIRS AND ENVIRONMENT AND THE GOVERNMENT OF CANADA WATEROFFICE.
 - CONTRACTOR TO VERIFY ALL CRITICAL DIMENSIONS IN THE FIELD PRIOR TO START OF WORK AND NOTIFY DEPARTMENTAL REPRESENTATIVE ON ANY DISCREPANCIES.
 - DURING REMOVAL OF THE EXISTING ARMOUR STONE DIVERSION WALL, CONTRACTOR SHALL TAKE MEASURES TO PREVENT DAMAGING OF EXISTING ADJACENT STRUCTURES, IN PARTICULAR, THE BRIDGE PIER. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR PROTECTION OF THE ADJACENT STRUCTURES AND SHALL DETERMINE WHAT MEASURES NEED TO BE TAKEN.
 - THE CONTRACTOR SHALL DETERMINE WHAT SAFETY MEASURES NEED TO BE TAKEN DURING DEMOLITION/CONSTRUCTION ACTIVITIES.
 - IT SHOULD BE NOTED THAT THE ARMOUR STONE DIVERSION WALL WAS CONSTRUCTED AFTER SITE SURVEY AND THEREFORE ELEVATION POINTS WITHIN THE WALL OUTLINE ARE INDICATIVE OF THE RIVER BED.
 - THE EXISTING BRIDGE PIER IS NOTED TO BE UNDERMINED, TO WHAT EXTENT IS UNKNOWN, WHICH SHALL BE CONSIDERED DURING CONSTRUCTION ACTIVITIES:
 - THE CONTRACTOR SHALL CARRY ALL NECESSARY COSTS FOR Dewatering IN THIS AREA TO ENSURE THE AREA FOR THE NEW CONCRETE DIVERSION WALL IS DRY.
 - THE CONTRACTOR SHALL ALSO LEAVE THE INNER LAYER OF EXISTING ARMOUR STONE TO AVOID FULLY EXPOSING THE EXISTING BRIDGE PIER FACE AS DETAILED. IN ADDITION, REMOVAL OF THE OUTER ROCK LAYER SHALL BE IMMEDIATELY FOLLOWED BY INSTALLATION OF THE NEW LARGER ROCKS. PROTECT THE AREA WITH THE USE OF LARGER 1 TONNE SANDBAGS C/W LINER AND/OR WHATEVER ADDITIONAL MEASURES REQUIRED, TO PREVENT EXPOSURE TO FAST MOVING WATER.

- GENERAL LEGEND:**
- RIVER FLOW DIRECTION
 - EXISTING SURVEY ELEVATION POINT
 - WATER LEVEL ELEVATION POINT AT TIME OF SURVEY (SEPTEMBER 27, 2016) - SEE NOTE 4 & 8
 - DENOTES EXISTING ARMOUR STONE DIVERSION WALL TO BE COMPLETELY REMOVED
 - EXISTING ATTRACTION FLOW SYSTEM WITH CONCRETE ENCASUREMENT
 - DENOTES EXISTING ARMOUR STONE TEMPORARILY/PARTIALLY REMOVED TO FACILITATE NEW WORK

REMOVE OUTER LAYER OF ROCK ARMOUR STONE TO FACILITATE INSTALLATION OF LARGER ROCK



SURVEY NOTES:

SURVEY PARTY CHIEF RICHARD HEALEY
SURVEY DATE(S) SEPT. 27, 2016

LAND SURVEY POSITION BY TRIMBLE GNSS R7 & LEICA T1600
DATA TAPE/DISC(S) USED
CAD DRAWING FILE(S):
TIDAL REDUCTION SCHEME

OFFICE PROCESSOR R. HEALEY
DATE OF PROCESSING SEPTEMBER 2016

CONTROL POINTS:

PL. NAME	EASTING	NORTHING	ELEV.	DESCRIPTION
MON. 81101	305670.304	5233519.632	+19.154 m	PROVINCIAL BRASS PLAQUE SET IN CONCRETE
BM #45	305583.516	5233559.539	+10.509 m	WATER SURVEY OF CANADA
F.I.P #1	305546.05	5233485.85	+11.505 m	FOUND IRON PIN SET IN BEDROCK
PWC 4-2013	305600.764	5233344.372	+16.408 m	SURVEY NAIL IN EDGE OF PAVED PARKING LOT
PWC 5-2016	305632.969	5233397.511	+6.805 m	BOLT IN BASE OF RAIL @ TOP OF FISHWAY
PWC 6-2016	305574.755	5233470.290	+7.580 m	SURVEY NAIL IN EXPOSED BEDROCK - WEST OF FISHWAY
PWC 7-2016	305625.461	5233398.412	+13.708 m	BOLT IN CONC DECK OF OLD BRIDGE

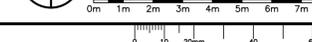
ALL ELEVATIONS REFERRED TO ANY OF THE CONTROL POINTS LISTED ABOVE IN THE CONTROL POINTS TABLE BUT WAS ESTABLISHED FROM CL MON 81101 USING A GEODETIC DATUM ELEVATION OF +19.154 m.

ALL SOUNDINGS REFERRED TO ANY OF THE CONTROL POINTS LISTED ABOVE IN THE CONTROL POINTS TABLE BUT WAS ESTABLISHED FROM CL MON 81101 USING A CHART DATUM ELEVATION OF +20.454 m.

COORDINATES FOR HORIZONTAL CONTROL ARE REFERENCED TO C.L.MON 81101 AND ARE GIVEN ON THE U.T.M. MAPPING PLANE, ZONE 22, USING THE NORTH AMERICAN DATUM OF 1983(NAD83).

ALL FIELD NOTES ARE IN FIELD BOOK #310

1 EXISTING SITE PLAN
 SCALE: 1:100



PROVINCE OF NEWFOUNDLAND AND LABRADOR
 PERMIT HOLDER
 This Permit Allows
Meridian Engineering Inc.
 Member No. 04378
 To provide Professional Engineering in Newfoundland and Labrador.
 Permit No. as Issued By PEG - N0153
 which is valid for the year 2019.



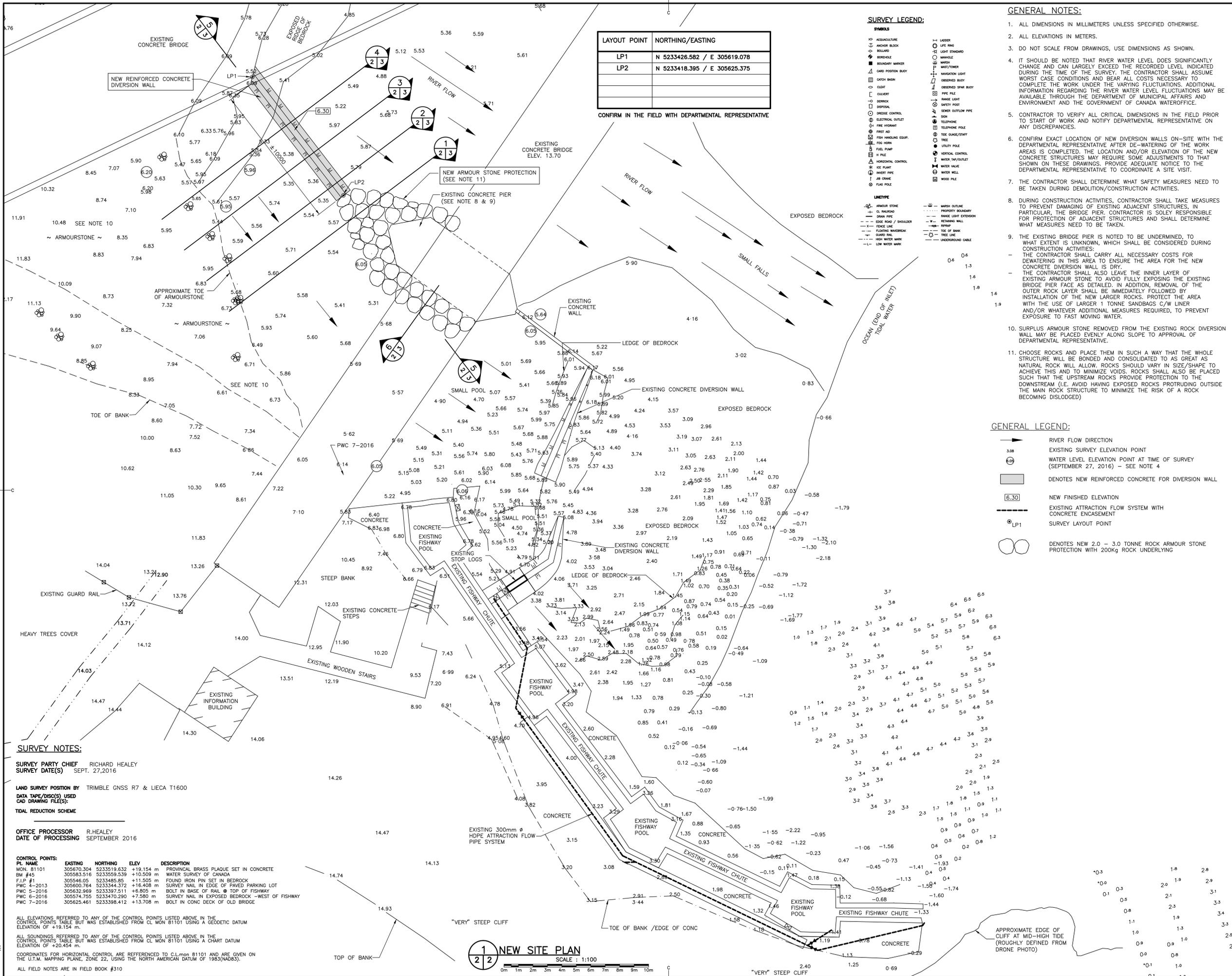
B	ISSUED FOR TENDER	19/07/25
A	ISSUED FOR 99% REVIEW	19/07/12

ROCKY RIVER FISHWAY DIVERSION WALL 2019

COLINET NEWFOUNDLAND

EXISTING SITE PLAN WITH DEMOLITION

revisions	date	project
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2	2.9	3
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0	14.9	3
0	15.0	3



LAYOUT POINT	NORTHING/EASTING
LP1	N 5233426.582 / E 305619.078
LP2	N 5233418.395 / E 305625.375

- SURVEY LEGEND:**
- SYMBOLS
 - ADJACENTURE
 - ANCHOR BLOCK
 - BOLLARD
 - WIREMESH
 - CONCRETE MANHOLE
 - CARD POSITION MARK
 - CHAIN MARK
 - CLAMP
 - CLIPNET
 - CONCRETE
 - DEBRIS CONTROL
 - ELECTRICAL OUTLET
 - FIRE HYDRANT
 - FIRST AID
 - FISH HANDLING EQUIP.
 - FUEL TANK
 - H FILE
 - HORIZONTAL CONTROL
 - ICE PLANT
 - WATER PIPE
 - ICE CRANE
 - FLAG POLE
 - LINE TYPE
 - ARMOUR STONE
 - CLIMBING
 - DRAIN PIPE
 - EDGE ROAD / SHOULDER
 - FENCE LINE
 - FLOODING WATERBREAK
 - GUARD RAIL
 - HIGH WATER MARK
 - LOW WATER MARK
 - OTHER
 - LEADER
 - LIFE RING
 - LIGHT STANDARD
 - MANHOLE
 - MARSH
 - MAST/TOWER
 - NAVIGATION LIGHT
 - OBSCURED LIGHT
 - OBSCURED SHAW BUOY
 - PIPE FILE
 - SAFETY POST
 - SEWER OUTFLOW PIPE
 - SHOULDER
 - TELEPHONE POLE
 - TELEPHONE
 - TRUCK GUARD/STIFF
 - TRUCK
 - UTILITY POLE
 - VERTICAL CONTROL
 - TRAILER
 - UNDERGROUND CABLE

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 - CONTRACTOR TO VERIFY ALL CRITICAL DIMENSIONS IN THE FIELD PRIOR TO START OF WORK AND NOTIFY DEPARTMENTAL REPRESENTATIVE ON ANY DISCREPANCIES.
 - CONFIRM EXACT LOCATION OF NEW DIVERSION WALLS ON-SITE WITH THE DEPARTMENTAL REPRESENTATIVE AFTER DE-WATERING OF THE WORK AREAS IS COMPLETED. THE LOCATION AND/OR ELEVATION OF THE NEW CONCRETE STRUCTURES MAY REQUIRE SOME ADJUSTMENTS TO THAT SHOWN ON THESE DRAWINGS. PROVIDE ADEQUATE NOTICE TO THE DEPARTMENTAL REPRESENTATIVE TO COORDINATE A SITE VISIT.
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 - SURPLUS ARMOUR STONE REMOVED FROM THE EXISTING ROCK DIVERSION WALL MAY BE PLACED EVENLY ALONG SLOPE TO APPROVAL OF DEPARTMENTAL REPRESENTATIVE.
 - CHOOSE ROCKS AND PLACE THEM IN SUCH A WAY THAT THE WHOLE STRUCTURE WILL BE BONDED AND CONSOLIDATED TO AS GREAT AS NATURAL ROCK WILL ALLOW. ROCKS SHOULD VARY IN SIZE/SHAPE TO ACHIEVE THIS AND TO MINIMIZE VOIDS. ROCKS SHALL ALSO BE PLACED SUCH THAT THE UPSTREAM ROCKS PROVIDE PROTECTION TO THE DOWNSTREAM (I.E. AVOID HAVING EXPOSED ROCKS PROTRUDING OUTSIDE THE MAIN ROCK STRUCTURE TO MINIMIZE THE RISK OF A ROCK BECOMING DISLODGED).

- GENERAL LEGEND:**
- RIVER FLOW DIRECTION
 - EXISTING SURVEY ELEVATION POINT
 - WATER LEVEL ELEVATION POINT AT TIME OF SURVEY (SEPTEMBER 27, 2016) - SEE NOTE 4
 - NEW FINISHED ELEVATION
 - EXISTING ATTRACTION FLOW SYSTEM WITH CONCRETE ENCASUREMENT
 - SURVEY LAYOUT POINT
 - NEW 2.0 - 3.0 TONNE ROCK ARMOUR STONE PROTECTION WITH 200kg ROCK UNDERLYING

SURVEY NOTES:

SURVEY PARTY CHIEF RICHARD HEALEY
SURVEY DATE(S) SEPT. 27, 2016

LAND SURVEY POSITION BY TRIMBLE GNSS R7 & LEICA T1600
DATA TAPE/DISC(S) USED
CAD DRAWING FILE(S):
TIDAL REDUCTION SCHEME

OFFICE PROCESSOR R. HEALEY
DATE OF PROCESSING SEPTEMBER 2016

CONTROL POINTS:

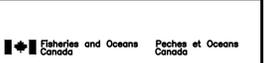
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ALL ELEVATIONS REFERRED TO ANY OF THE CONTROL POINTS LISTED ABOVE IN THE CONTROL POINTS TABLE BUT WAS ESTABLISHED FROM CL MON 81101 USING A GEODETIC DATUM ELEVATION OF +19.154 m.

ALL SOUNDINGS REFERRED TO ANY OF THE CONTROL POINTS LISTED ABOVE IN THE CONTROL POINTS TABLE BUT WAS ESTABLISHED FROM CL MON 81101 USING A CHART DATUM ELEVATION OF +20.454 m.

COORDINATES FOR HORIZONTAL CONTROL ARE REFERENCED TO C.L.MON 81101 AND ARE GIVEN ON THE U.T.M. MAPPING PLANE, ZONE 22, USING THE NORTH AMERICAN DATUM OF 1983(NAD83).

ALL FIELD NOTES ARE IN FIELD BOOK #310



PROVINCE OF NEWFOUNDLAND AND LABRADOR

PERMIT HOLDER
 This Permit Allows
Meridian Engineering Inc.
 Member No. 04378

To provide Professional Engineering in Newfoundland and Labrador
 Permit No. as issued by PEO, ND153
 which is valid for the year 2019.



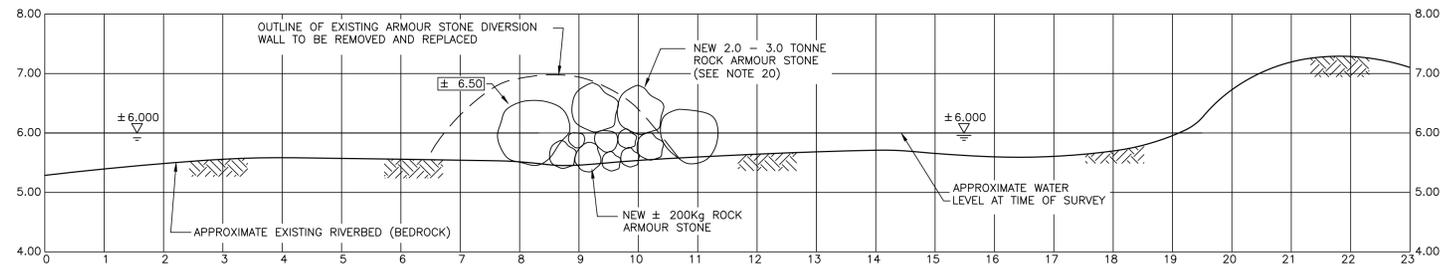
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A	ISSUED FOR 99% REVIEW	19/07/12

ROCKY RIVER FISHWAY DIVERSION WALL 2019

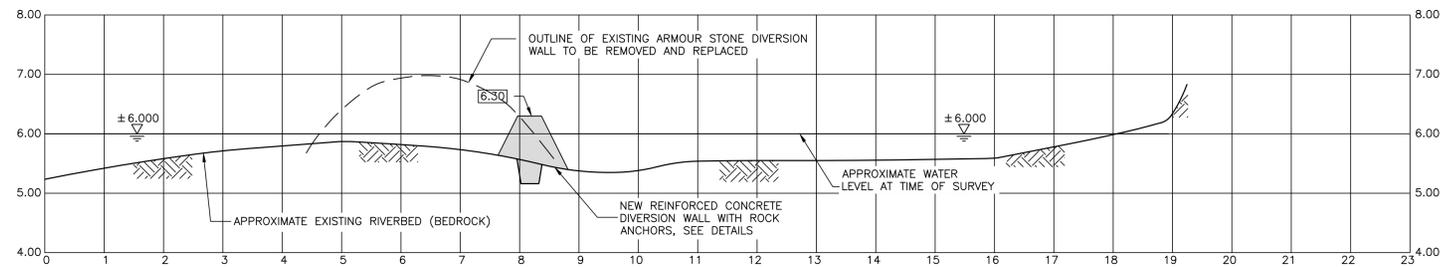
COLINET NEWFOUNDLAND

NEW SITE PLAN

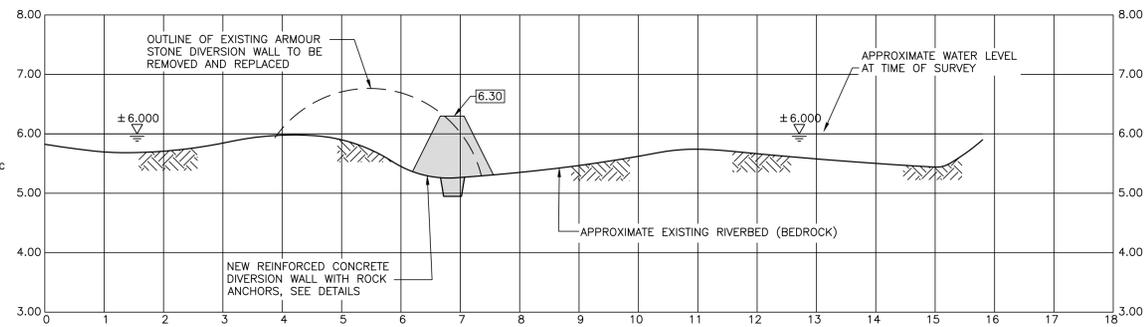
designed	C. FISHER	concu
date	JULY, 2019	
drawn	P. MARSH	dessine
date	JULY, 2019	
approved		approuve
date		
Tender		Soumission
DFO Project Manager	Administrateur de projets MPO	
project number		no. du projet
	F6879-191003	
drawing no.		no. du dessin
	C2 OF 4	



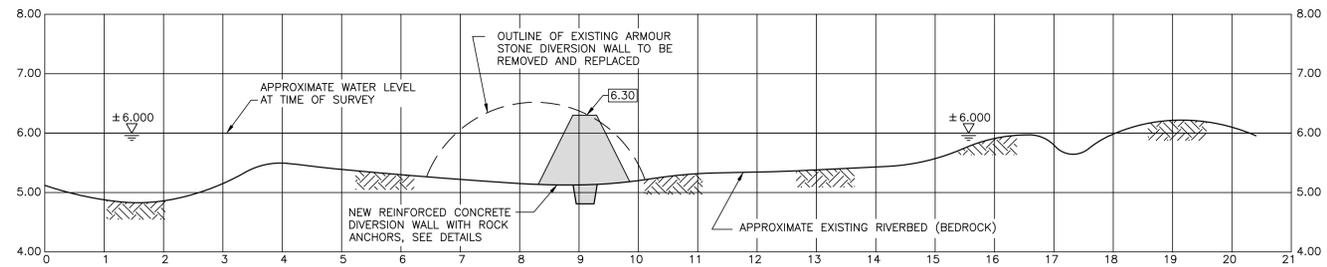
1 DIVERSION WALL - SECTION
SCALE: 1:50



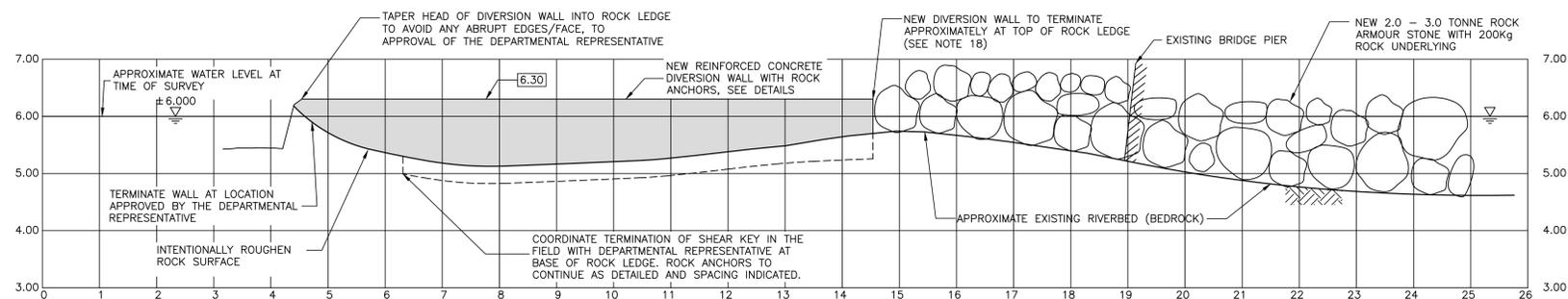
2 DIVERSION WALL - SECTION
SCALE: 1:50



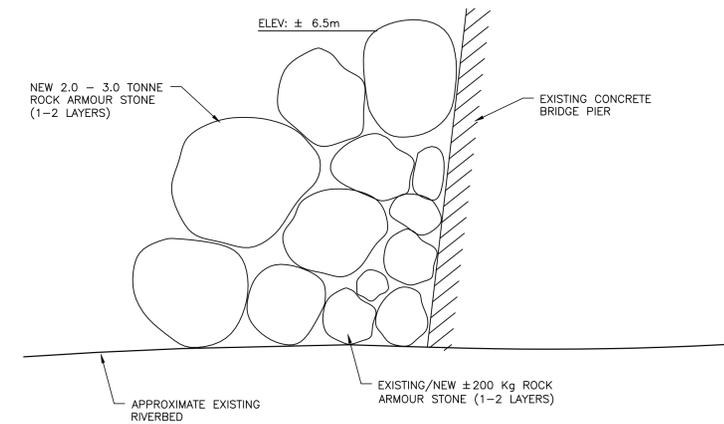
3 DIVERSION WALL - SECTION
SCALE: 1:50



4 DIVERSION WALL - SECTION
SCALE: 1:50



5 DIVERSION WALL - PROFILE
SCALE: 1:50



6 NEW ARMOUR STONE
SCALE: 1:25

NOTES:

- ALL DIMENSIONS IN MILLIMETERS UNLESS SPECIFIED OTHERWISE.
- ALL ELEVATIONS IN METERS.
- DO NOT SCALE FROM DRAWINGS, USE DIMENSIONS AS SHOWN.
- ICE AND DEBRIS LOADING FOR DIVERSION WALL DESIGN IS 65 kN/m (FACTORED) ACTING AT TOP OF WALL.
- REMOVE LOOSE AND FRAGMENTED ROCK TO EXPOSE A SOUND COMPETENT BEDROCK SURFACE TO ACCEPTANCE OF THE DEPARTMENTAL REPRESENTATIVE PRIOR TO THE PLACEMENT OF CONCRETE ON ROCK. APPLY BONDING AGENT "WELDCRETE" OR APPROVED EQUAL TO ALL CONCRETE/ROCK INTERFACES.
- ALL EDGES OF CONCRETE TO BE PROVIDED WITH A ROUNDED CHAMFER TO ELIMINATE ALL SHARP EDGES.
- PROVIDE REINFORCEMENT AT ALL CORNERS AND INTERSECTIONS TO BE SAME BAR SIZE AND SPACING AS MAIN REINFORCEMENT.
- MINIMUM SPLICE LENGTHS IN ACCORDANCE WITH CSA STANDARD A23.3-04.
- CONCRETE COVER TO BE 75mm ALL AREAS, ALL CONDITIONS.
- MINIMUM 28 DAY CONCRETE STRENGTH = 35 MPa.
- REINFORCING STEEL YIELD STRENGTH = 400 MPa.
- REINFORCEMENT AND ROCK ANCHORS OMITTED ON THIS DRAWING FOR CLARITY, REFER TO APPROPRIATE DETAILS ACCORDINGLY.
- CONCRETE DIVERSION WALL TO BE POURED IN ONE CONTINUOUS POUR.
- BONDING AGENT TO BE "WELDCRETE" OR APPROVED EQUAL. BONDING AGENT TO BE APPLIED TO ALL EXISTING CONCRETE AND ROCK INTERFACES.
- MINIMUM STRENGTH OF GROUT TO BE 40 MPa.
- CONTRACTOR TO CONFIRM ALL DIMENSIONS PRIOR TO START OF CONSTRUCTION AND NOTIFY DEPARTMENTAL REPRESENTATIVE OF ANY DISCREPANCIES.
- DEPARTMENTAL REPRESENTATIVE TO INSPECT ALL ROCK ANCHOR LOCATIONS PRIOR TO DRILLING.
- CONFIRM EXACT LOCATION OF NEW DIVERSION WALLS ON-SITE WITH THE DEPARTMENTAL REPRESENTATIVE AFTER DE-WATERING OF THE WORK AREAS IS COMPLETED. THE LOCATION AND/OR ELEVATION OF THE NEW CONCRETE STRUCTURES MAY REQUIRE SOME ADJUSTMENTS TO THAT SHOWN ON THESE DRAWINGS. PROVIDE ADEQUATE NOTICE TO THE DEPARTMENTAL REPRESENTATIVE TO COORDINATE A SITE VISIT.
- CONSTRUCT FORMWORK SUCH THAT THE NEWLY PLACED CONCRETE MATCHES THE EXISTING TERRAIN AND LOOKS AS NATURAL AS POSSIBLE. COORDINATE IN THE FIELD WITH DEPARTMENTAL REPRESENTATIVE.
- CHOOSE ROCKS AND PLACE THEM IN SUCH A WAY THAT THE WHOLE STRUCTURE WILL BE BONDED AND CONSOLIDATED TO AS GREAT AS NATURAL ROCK WILL ALLOW. ROCKS SHOULD VARY IN SIZE/SHAPE TO ACHIEVE THIS AND TO MINIMIZE VOIDS. ROCKS SHALL ALSO BE PLACED SUCH THAT THE UPSTREAM ROCKS PROVIDE PROTECTION TO THE DOWNSTREAM (I.E. AVOID HAVING EXPOSED ROCKS PROTRUDING OUTSIDE THE MAIN ROCK STRUCTURE TO MINIMIZE THE RISK OF A ROCK BECOMING DISLODGED).
- CONTRACTOR MAY RE-USE STONES FROM THE EXISTING ARMOUR STONE DIVERSION WALL TO BE REMOVED, IF OF APPROPRIATE SIZE.

PROVINCE OF NEWFOUNDLAND AND LABRADOR
PERMIT HOLDER
 This Permit Allows
Meridian Engineering Inc.
 Member No. 04378
 To practice Professional Engineering
 in Newfoundland and Labrador.
 Permit No. as issued by PEO, ND153
 which is valid for the year 2019.



B	ISSUED FOR TENDER	19/07/25
A	ISSUED FOR 99% REVIEW	19/07/12

revisions	date
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project
**ROCKY RIVER FISHWAY
 DIVERSION WALL 2019**

**COLINET
 NEWFOUNDLAND**

drawing no. design
**DIVERSION WALL -
 PROFILE AND SECTIONS**

designed C. FISHER concu

date JULY, 2019

drawn P. MARSH dessine

date JULY, 2019

approved approve

date

Tender Soumission

DFO Project Manager Administrateur de projets MPD

project number no. du projet

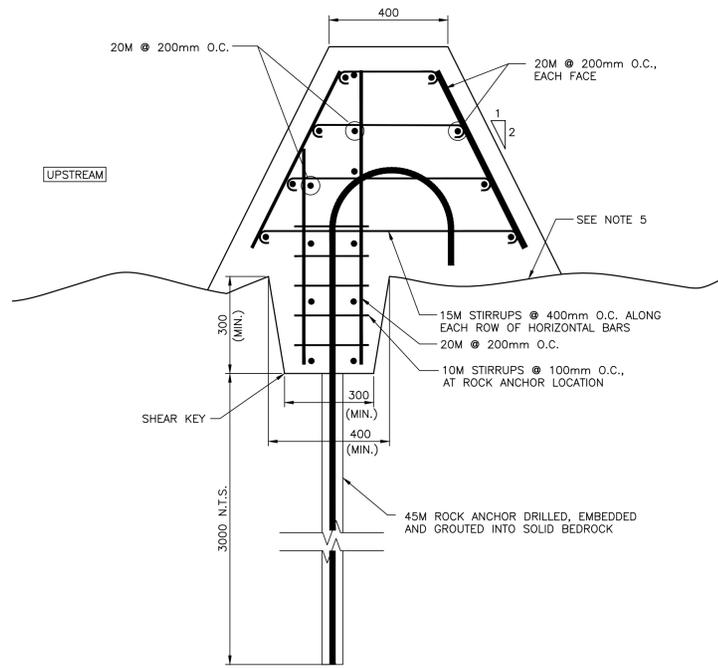
F6879-191003

drawing no. no. du dessin

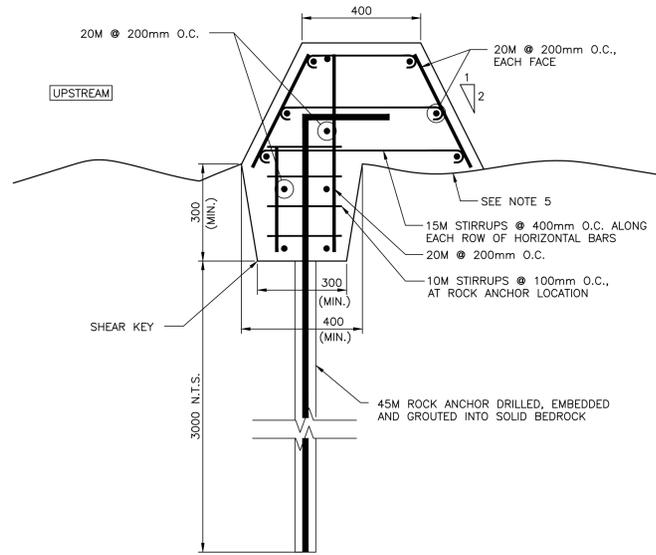
C3 OF 4

NOTES:

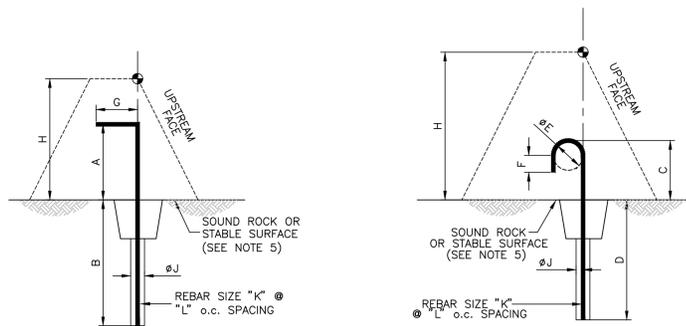
1. ALL DIMENSIONS IN MILLIMETERS UNLESS SPECIFIED OTHERWISE.
2. ALL ELEVATIONS IN METERS.
3. DO NOT SCALE FROM DRAWINGS, USE DIMENSIONS AS SHOWN.
4. ICE AND DEBRIS LOADING FOR DIVERSION WALL DESIGN IS 65 kN/m (FACTORED) ACTING AT TOP OF WALL.
5. REMOVE LOOSE AND FRAGMENTED ROCK TO EXPOSE A SOUND COMPETENT BEDROCK SURFACE TO ACCEPTANCE OF THE DEPARTMENTAL REPRESENTATIVE PRIOR TO THE PLACEMENT OF CONCRETE ON ROCK. APPLY BONDING AGENT "WELDCRETE" OR APPROVED EQUAL TO ALL CONCRETE/ROCK INTERFACES.
6. ALL EDGES OF CONCRETE TO BE PROVIDED WITH A ROUNDED CHAMFER TO ELIMINATE ALL SHARP EDGES.
7. PROVIDE REINFORCEMENT AT ALL CORNERS AND INTERSECTIONS TO BE SAME BAR SIZE AND SPACING AS MAIN REINFORCEMENT.
8. MINIMUM SPLICE LENGTHS IN ACCORDANCE WITH CSA STANDARD A23.3-04.
9. CONCRETE COVER TO BE 75mm ALL AREAS, ALL CONDITIONS.
10. MINIMUM 28 DAY CONCRETE STRENGTH = 35 MPa.
11. REINFORCING STEEL YIELD STRENGTH = 400 MPa.
12. REINFORCEMENT OMITTED ON SOME DETAILS FOR CLARITY. REFER TO APPROPRIATE DETAILS ACCORDINGLY.
13. CONCRETE DIVERSION WALL TO BE POURED IN ONE CONTINUOUS POUR.
14. BONDING AGENT TO BE "WELDCRETE" OR APPROVED EQUAL. BONDING AGENT TO BE APPLIED TO ALL EXISTING CONCRETE AND ROCK INTERFACES.
15. MINIMUM STRENGTH OF GROUT TO BE 40 MPa.
16. CONTRACTOR TO CONFIRM ALL DIMENSIONS PRIOR TO START OF CONSTRUCTION AND NOTIFY DEPARTMENTAL REPRESENTATIVE OF ANY DISCREPANCIES.
17. DEPARTMENTAL REPRESENTATIVE TO INSPECT ALL ROCK ANCHOR LOCATIONS PRIOR TO DRILLING.
18. CONFIRM EXACT LOCATION OF NEW DIVERSION WALLS ON-SITE WITH THE DEPARTMENTAL REPRESENTATIVE AFTER DE-WATERING OF THE WORK AREAS IS COMPLETED. THE LOCATION AND/OR ELEVATION OF THE NEW CONCRETE STRUCTURES MAY REQUIRE SOME ADJUSTMENTS TO THAT SHOWN ON THESE DRAWINGS. PROVIDE ADEQUATE NOTICE TO THE DEPARTMENTAL REPRESENTATIVE TO COORDINATE A SITE VISIT.
19. CONSTRUCT FORMWORK SUCH THAT THE NEWLY PLACED CONCRETE MATCHES THE EXISTING TERRAIN AND LOOKS AS NATURAL AS POSSIBLE. COORDINATE IN THE FIELD WITH DEPARTMENTAL REPRESENTATIVE.
20. REFER TO SECTION 011610 - MATERIALS SUPPLIED BY CANADA.



1
4 | 4 TYPICAL CROSS SECTION
 - DIVERSION WALL DETAILS
 SCALE : 1:10
 0mm 100 200 300 400 500 600 700 800 900 1000mm



2
4 | 4 TYPICAL CROSS SECTION
 - DIVERSION WALL DETAILS
 SCALE : 1:10
 0mm 100 200 300 400 500 600 700 800 900 1000mm



TYPE I ANCHOR

TYPE II ANCHOR

TYPE	DIMENSIONS							REBAR			
	A	B	C	D	E	F	G	H	J	K	L
I	200	(3300)	-	-	-	-	(300)	H<500	90	45M	800
II	-	-	(400)	(3300)	400	(180)	-	500≤H≤2000	90	45M	800

1. (*) DENOTES MINIMUM DIMENSION
2. IF THE HEIGHT OF THE DEFLECTION WALL VARIES FROM FRONT TO BACK, THE LARGEST HEIGHT SHALL GOVERN.
3. THE CONTRACTOR SHALL CONFIRM LOCATIONS OF ROCK ANCHORS WITH DEPARTMENTAL REPRESENTATIVE PRIOR TO ANY DRILLING.

3
4 | 4 ROCK ANCHOR DETAILS

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 DIVERSION WALL 2019**

**COLINET
 NEWFOUNDLAND**

drawing
**DIVERSION WALL -
 DETAILS**

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