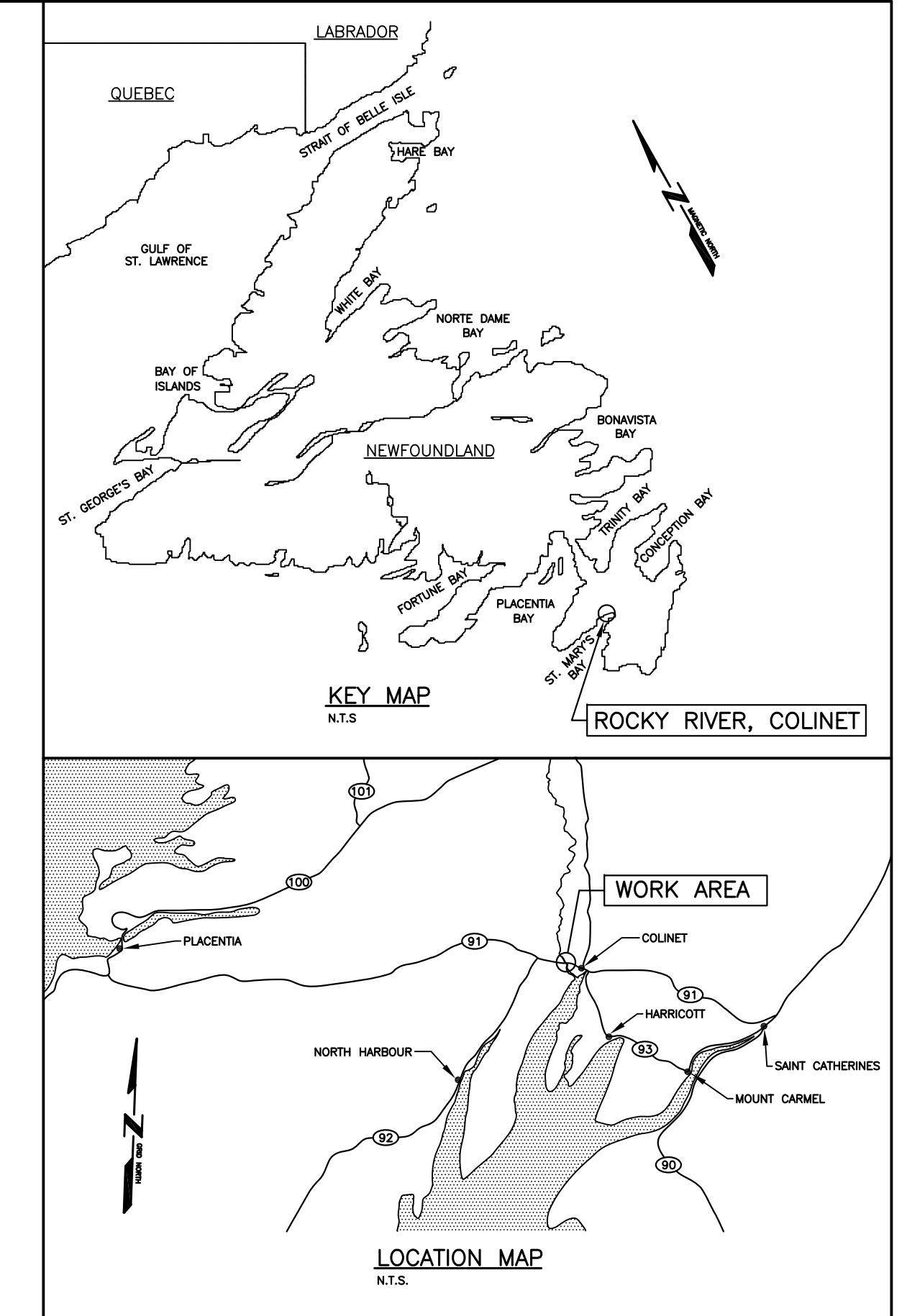


FISHWAY ENHANCEMENT - ROCKY RIVER COLINET, NEWFOUNDLAND PROJECT No. F6879-161005 ISSUED FOR TENDER



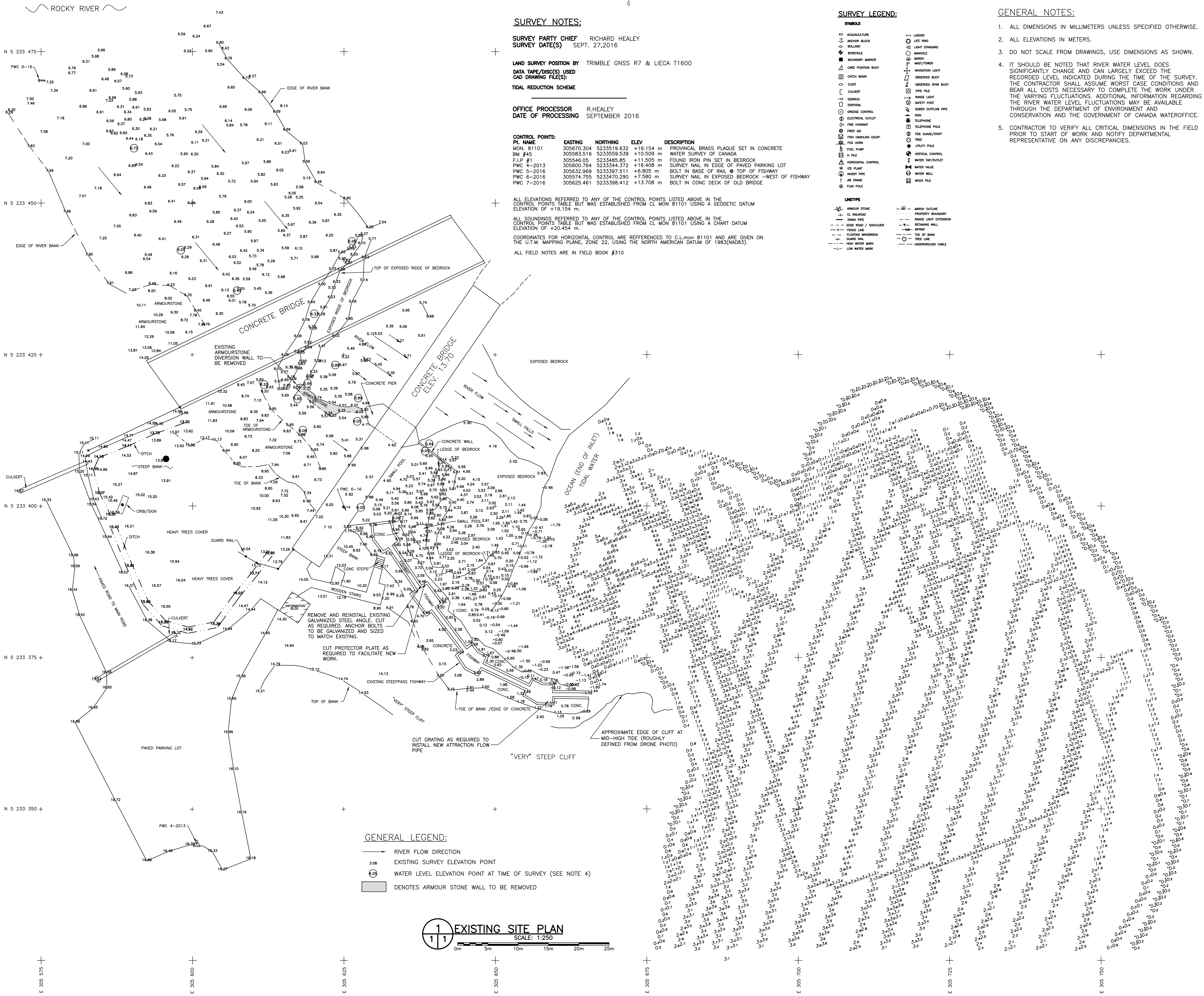
LIST OF DRAWINGS:

- C1 OF 5 EXISTING SITE PLAN WITH DEMOLITION
- C2 OF 5 NEW SITE PLAN
- C3 OF 5 DIVERSION WALL – PROFILES AND SECTIONS
- C4 OF 5 DIVERSION WALL – PROFILE, SECTION AND DETAILS
- C5 OF 5 ATTRACTION FLOW PIPE – PROFILE, SECTIONS AND DETAILS

PREPARED FOR



DEPARTMENT OF FISHERIES AND OCEANS



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		305683.516	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	5233387.511	+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

SURVEY LEGEND:

SYMBOLS	
+	ADJUSTMENT
+	ANCHOR BOLT
○	BOLLARD
○	BORNDOLE
+	BOUNDARY MARKER
+	CARD POSITION BUDY
+	CATCH BASIN
+	CHUTE
+	CULVERT
+	DEBRIS
+	DEBRIS CONTROL
+	ELECTRICAL OUTLET
+	FIRE HYDRANT
+	FISH HOOD
+	FISH HAWKING EQUIP.
+	FOO HOON
+	FUEL PUMP
+	PIPE
+	RECORDING CONTROL
+	ICE PLANT
+	INVERT PIPE
+	ICE CHINE
+	FLAG POLE
+	LANDER
+	LIFE RING
+	LIGHT STANDARD
+	MANHOLE
+	MARSH
+	WASTEWATER
+	NAVIGATION BUOY
+	OBSERVED BUOY
+	OBSERVED SPAN BUOY
+	PIPE PILE
+	RIDGE LIGHT
+	SAFETY POST
+	SEWER OUTFLOW PIPE
+	SEIN
+	TELEPHONE
+	TELEPHONE POLE
+	TIDE GAUGE/STAFF
+	TREE
+	UTILITY POLE
+	VERTICAL CONTROL
+	WATER TAP/OUTLET
+	WATER VALVE
+	WATER WELL
+	WOOD PILE

GENERAL 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. 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 ENVIRONMENT AND CONSERVATION AND THE GOVERNMENT OF CANADA WATEROFFICE.
5. CONTRACTOR TO VERIFY ALL CRITICAL DIMENSIONS IN THE FIELD PRIOR TO START OF WORK AND NOTIFY DEPARTMENTAL REPRESENTATIVE ON ANY DISCREPANCIES.

LINE TYPE	
---	ARMOUR STONE
---	CL. ROAD
---	SEWER PIPE
---	EDGE ROAD / SHOULDER
---	FENCE LINE
---	LOADING WAREHOUSE
---	GUARD RAIL
---	HIGH WATER MARK
---	LOW WATER MARK
---	MARSH OUTLINE
---	PROPERTY BOUNDARY
---	RIDGE LIGHT EXTENSION
---	RETAINING WALL
---	SEWER
---	TOE OF BANK
---	TREE LINE
---	UNDERGROUND CABLE

GENERAL LEGEND:

- RIVER FLOW DIRECTION
- EXISTING SURVEY ELEVATION POINT
- WATER LEVEL ELEVATION POINT AT TIME OF SURVEY (SEE NOTE 4)
- DENOTES ARMOUR STONE WALL TO BE REMOVED

EXISTING SITE PLAN
 SCALE: 1:250



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 P.E.O.C. 2015/0150
 which is valid for the year 2016.

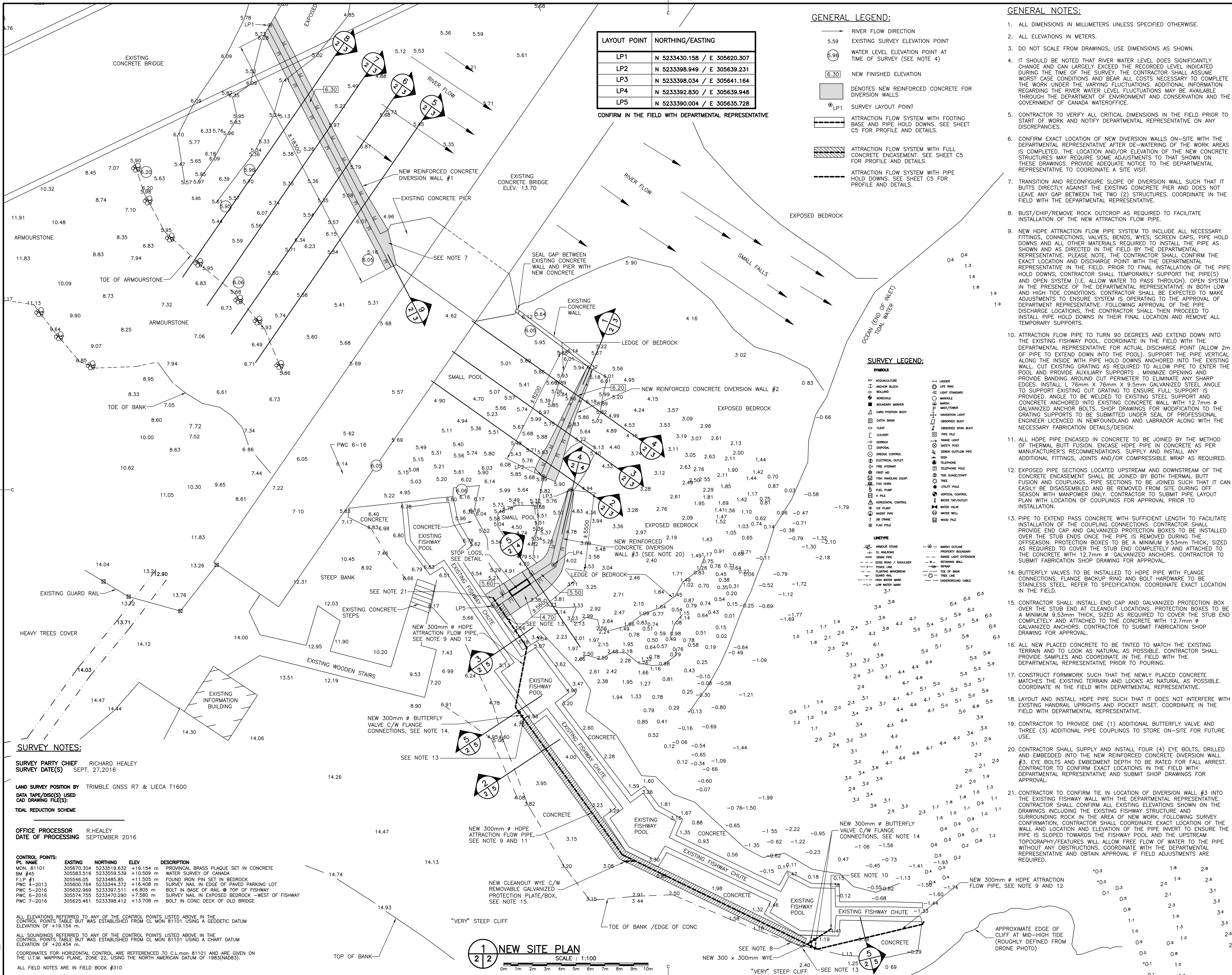


revisions	date
C	ISSUED FOR TENDER 16/10/09
B	ISSUED FOR 99% REVIEW 16/10/09
A	ISSUED FOR 33% REVIEW 16/11/09

**FISHWAY ENHANCEMENTS
 ROCKY RIVER
 COLINET, NL**

**EXISTING SITE PLAN
 WITH DEMOLITION**

designed C. FISHER	concu
date OCTOBER, 2016	
drawn R. SNOW	designe
date OCTOBER, 2016	
approved	approve
date	
Tender	Soumission
DFO Project Manager	Administrateur de projets MPO
project number	no. du projet
F6879-161005	
drawing no.	no. du dessin
C1 OF 5	



LAYOUT POINT	NORTHING/EASTING
LP1	N 5233430.158 / E 305620.307
LP2	N 5233398.949 / E 305639.231
LP3	N 5233398.034 / E 305641.164
LP4	N 5233392.830 / E 305639.948
LP5	N 5233390.004 / E 305635.728

GENERAL LEGEND:

- RIVER FLOW DIRECTION
- 5.59 EXISTING SURVEY ELEVATION POINT
- 6.98 WATER LEVEL ELEVATION POINT AT TIME OF SURVEY (SEE NOTE 4)
- 6.30 NEW FINISHED ELEVATION
- DENOTES NEW REINFORCED CONCRETE FOR DIVERSION WALLS
- ⊙ LP1 SURVEY LAYOUT POINT
- ATTRACTION FLOW SYSTEM WITH FOOTING BASE AND PIPE HOLD DOWNS. SEE SHEET C5 FOR PROFILE AND DETAILS.
- ATTRACTION FLOW SYSTEM WITH FULL CONCRETE ENCASUREMENT. SEE SHEET C5 FOR PROFILE AND DETAILS.
- ATTRACTION FLOW SYSTEM WITH PIPE HOLD DOWNS. SEE SHEET C5 FOR PROFILE AND DETAILS.

GENERAL 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. 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 ENVIRONMENT AND CONSERVATION AND THE GOVERNMENT OF CANADA WATEROFFICE.
5. CONTRACTOR TO VERIFY ALL CRITICAL DIMENSIONS IN THE FIELD PRIOR TO START OF WORK AND NOTIFY DEPARTMENTAL REPRESENTATIVE ON ANY DISCREPANCIES.
6. 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.
7. TRANSITION AND RECONFIGURE SLOPE OF DIVERSION WALL SUCH THAT IT BUTTS DIRECTLY AGAINST THE EXISTING CONCRETE PIER AND DOES NOT LEAVE ANY GAP BETWEEN THE TWO (2) STRUCTURES. COORDINATE IN THE FIELD WITH THE DEPARTMENTAL REPRESENTATIVE.
8. BUST/CHIP/REMOVE ROCK OUTCROP AS REQUIRED TO FACILITATE INSTALLATION OF THE NEW ATTRACTION FLOW PIPE.
9. NEW HDPE ATTRACTION FLOW PIPE SYSTEM TO INCLUDE ALL NECESSARY FITTINGS, CONNECTIONS, VALVES, BENDS, WYES, SCREEN CAPS, PIPE HOLD DOWNS AND ALL OTHER MATERIALS REQUIRED TO INSTALL THE PIPE AS SHOWN AND AS DIRECTED IN THE FIELD BY THE DEPARTMENTAL REPRESENTATIVE. PLEASE NOTE, THE CONTRACTOR SHALL CONFIRM THE EXACT LOCATION AND DISCHARGE POINT WITH THE DEPARTMENTAL REPRESENTATIVE IN THE FIELD. PRIOR TO FINAL INSTALLATION OF THE PIPE HOLD DOWNS, CONTRACTOR SHALL TEMPORARILY SUPPORT THE PIPE(S) AND OPEN SYSTEM (I.E. ALLOW WATER TO PASS THROUGH). OPEN SYSTEM IN THE PRESENCE OF THE DEPARTMENTAL REPRESENTATIVE IN BOTH LOW AND HIGH TIDE CONDITIONS. CONTRACTOR SHALL BE EXPECTED TO MAKE ADJUSTMENTS TO ENSURE SYSTEM IS OPERATING TO THE APPROVAL OF DEPARTMENTAL REPRESENTATIVE. FOLLOWING APPROVAL OF THE PIPE DISCHARGE LOCATIONS, THE CONTRACTOR SHALL THEN PROCEED TO INSTALL PIPE HOLD DOWNS IN THEIR FINAL LOCATION AND REMOVE ALL TEMPORARY SUPPORTS.
10. ATTRACTION FLOW PIPE TO TURN 90 DEGREES AND EXTEND DOWN INTO THE EXISTING FISHWAY POOL. COORDINATE IN THE FIELD WITH THE DEPARTMENTAL REPRESENTATIVE FOR ACTUAL DISCHARGE POINT (ALLOW 2m OF PIPE TO EXTEND DOWN INTO THE POOL). SUPPORT THE PIPE VERTICALLY ALONG THE INSIDE WITH PIPE HOLD DOWNS ANCHORED INTO THE EXISTING WALL. CUT EXISTING GRATING AS REQUIRED TO ALLOW PIPE TO ENTER THE POOL AND PROVIDE AUXILIARY SUPPORTS TO MINIMIZE OPENING AND PROVIDE BANDING AROUND CUT PERIMETER TO ELIMINATE ANY SHARP EDGES. INSTALL L 76mm X 76mm X 9.5mm GALVANIZED STEEL ANGLE TO SUPPORT EXISTING CUT GRATING TO ENSURE FULL SUPPORT IS PROVIDED. ANGLE TO BE WELDED TO EXISTING STEEL SUPPORT AND CONCRETE ANCHORED INTO EXISTING CONCRETE WALL WITH 12.7mm Ø GALVANIZED ANCHOR BOLTS. SHOP DRAWINGS FOR MODIFICATION TO THE GRATING SUPPORTS TO BE SUBMITTED UNDER SEAL OF PROFESSIONAL ENGINEER LICENSED IN NEWFOUNDLAND AND LABRADOR ALONG WITH THE NECESSARY FABRICATION DETAILS/DESIGN.
11. ALL HDPE PIPE ENCASED IN CONCRETE TO BE JOINED BY THE METHOD OF THERMAL BUTT FUSION. ENCASE HDPE PIPE IN CONCRETE AS PER MANUFACTURER'S RECOMMENDATIONS. SUPPLY AND INSTALL ANY ADDITIONAL FITTINGS, JOINTS AND/OR COMPRESSIBLE WRAP AS REQUIRED.
12. EXPOSED PIPE SECTIONS LOCATED UPSTREAM AND DOWNSTREAM OF THE CONCRETE ENCASUREMENT SHALL BE JOINED BY BOTH THERMAL BUTT FUSION AND COUPLINGS TO BE INSTALLED DURING THE CONSTRUCTION. COUPLINGS TO BE INSTALLED TO COVER THE STUB ENDS ONCE THE PIPE IS REMOVED DURING THE OFFSEASON. PROTECTION BOXES TO BE A MINIMUM 9.53mm THICK, SIZED AS REQUIRED TO COVER THE STUB END COMPLETELY AND ATTACHED TO THE CONCRETE WITH 12.7mm Ø GALVANIZED ANCHORS. CONTRACTOR TO SUBMIT FABRICATION SHOP DRAWING FOR APPROVAL.
13. EXPOSED PIPE SECTIONS LOCATED UPSTREAM AND DOWNSTREAM OF THE CONCRETE ENCASUREMENT SHALL BE JOINED BY BOTH THERMAL BUTT FUSION AND COUPLINGS TO BE INSTALLED DURING THE CONSTRUCTION. COUPLINGS TO BE INSTALLED TO COVER THE STUB ENDS ONCE THE PIPE IS REMOVED DURING THE OFFSEASON. PROTECTION BOXES TO BE A MINIMUM 9.53mm THICK, SIZED AS REQUIRED TO COVER THE STUB END COMPLETELY AND ATTACHED TO THE CONCRETE WITH 12.7mm Ø GALVANIZED ANCHORS. CONTRACTOR TO SUBMIT FABRICATION SHOP DRAWING FOR APPROVAL.
14. BUTTERFLY VALVES TO BE INSTALLED TO HDPE PIPE WITH FLANGE CONNECTIONS. FLANGE BACKUP RING AND BOLT HARDWARE TO BE STAINLESS STEEL. REFER TO SPECIFICATION. COORDINATE EXACT LOCATION IN THE FIELD.
15. CONTRACTOR SHALL INSTALL END CAP AND GALVANIZED PROTECTION BOX OVER THE STUB END AT CLEANOUT LOCATIONS. PROTECTION BOXES TO BE A MINIMUM 9.53mm THICK, SIZED AS REQUIRED TO COVER THE STUB END COMPLETELY AND ATTACHED TO THE CONCRETE WITH 12.7mm Ø GALVANIZED ANCHORS. CONTRACTOR TO SUBMIT FABRICATION SHOP DRAWING FOR APPROVAL.
16. ALL NEW PLACED CONCRETE TO BE TINTED TO MATCH THE EXISTING TERRAIN AND TO LOOK AS NATURAL AS POSSIBLE. CONTRACTOR SHALL PROVIDE SAMPLES AND COORDINATE IN THE FIELD WITH THE DEPARTMENTAL REPRESENTATIVE PRIOR TO POURING.
17. 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.
18. LAYOUT AND INSTALL HDPE PIPE SUCH THAT IT DOES NOT INTERFERE WITH EXISTING HANDRAIL UPRIGHTS AND POCKET INSET. COORDINATE IN THE FIELD WITH DEPARTMENTAL REPRESENTATIVE.
19. CONTRACTOR TO PROVIDE ONE (1) ADDITIONAL BUTTERFLY VALVE AND THREE (3) ADDITIONAL PIPE COUPLINGS TO STORE ON-SITE FOR FUTURE USE.
20. CONTRACTOR SHALL SUPPLY AND INSTALL FOUR (4) EYE BOLTS, DRILLED AND EMBEDDED INTO THE NEW REINFORCED CONCRETE DIVERSION WALL #3. EYE BOLTS AND EMBEDMENT DEPTH TO BE RATED FOR FALL ARREST. CONTRACTOR TO CONFIRM EXACT LOCATIONS IN THE FIELD WITH DEPARTMENTAL REPRESENTATIVE AND SUBMIT SHOP DRAWINGS FOR APPROVAL.
21. CONTRACTOR TO CONFIRM TIE IN LOCATION OF DIVERSION WALL #3 INTO THE EXISTING FISHWAY WALL WITH THE DEPARTMENTAL REPRESENTATIVE. CONTRACTOR SHALL CONFIRM ALL EXISTING ELEVATIONS SHOWN ON THE DRAWINGS INCLUDING THE EXISTING FISHWAY STRUCTURE AND SURROUNDING ROCK IN THE AREA OF NEW WORK. FOLLOWING SURVEY CONFIRMATION, CONTRACTOR SHALL COORDINATE EXACT LOCATION OF THE WALL AND LOCATION AND ELEVATION OF THE PIPE INVERT TO ENSURE THE PIPE IS SLOPED TOWARDS THE FISHWAY POOL AND THE UPSTREAM TOPOGRAPHY/FEATURES WILL ALLOW FREE FLOW OF WATER TO THE PIPE WITHOUT ANY OBSTRUCTIONS. COORDINATE WITH THE DEPARTMENTAL REPRESENTATIVE AND OBTAIN APPROVAL IF FIELD ADJUSTMENTS ARE REQUIRED.

SURVEY LEGEND:

- SYMBOLS
- ▲ ANCHOR BLOCK
- BENCHMARK
- BOUNDARY MARKER
- ▲ CHAIN POSITION BUDY
- CHAIN MARK
- CLEARING
- CORNER
- DREDGE CONTROL
- ELECTRICAL OUTLET
- FIRE HYDRANT
- FISH WALKING EQUIP.
- FISH HORN
- FUEL TANK
- HORIZONTAL CONTROL
- ICE PLANT
- SHED
- SIGN
- FLAG POLE
- LINDER
- LIFE RING
- LIGHT STANDARD
- MANHOLE
- MAST
- MAST/TOWER
- NAVIGATION LIGHT
- OBSERVED SHIP BUOY
- PIPE PILE
- RANGE LIGHT
- SAFETY POST
- SHORE OUTFLOW PIPE
- SIGN
- TELEPHONE POLE
- THE BRIDGE/STIFF
- TREE
- UTILITY POLE
- VERTICAL CONTROL
- WATER TAP/OUTLET
- WATER VALVE
- WATER WELL
- WOOD PILE
- MARSH OUTLINE
- PROPERTY BOUNDARY
- RANGE LIGHT EXTENSION
- RETAINING WALL
- RIPRAP
- TOE OF BANK
- TREE LINE
- UNDERGROUND CABLE

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

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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 +19.154 m.

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ALL FIELD NOTES ARE IN FIELD BOOK #310

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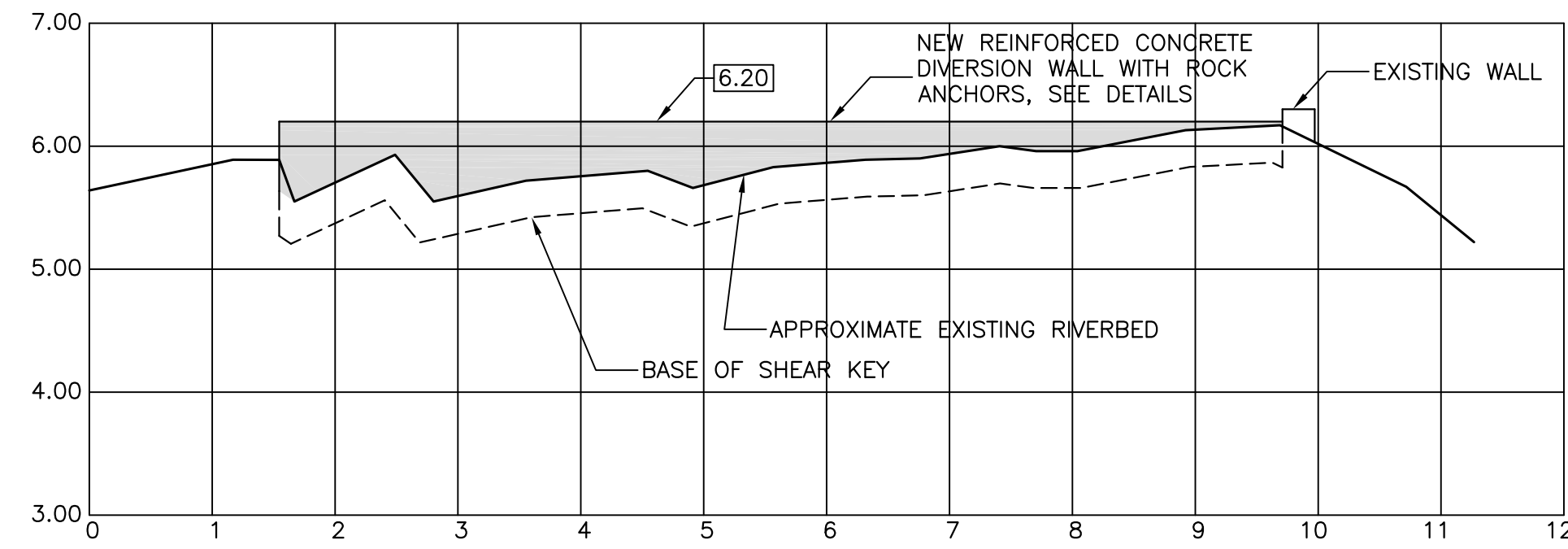


revisions	date
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B	ISSUED FOR 99% REVIEW 16/12/09
A	ISSUED FOR 33% REVIEW 16/11/09

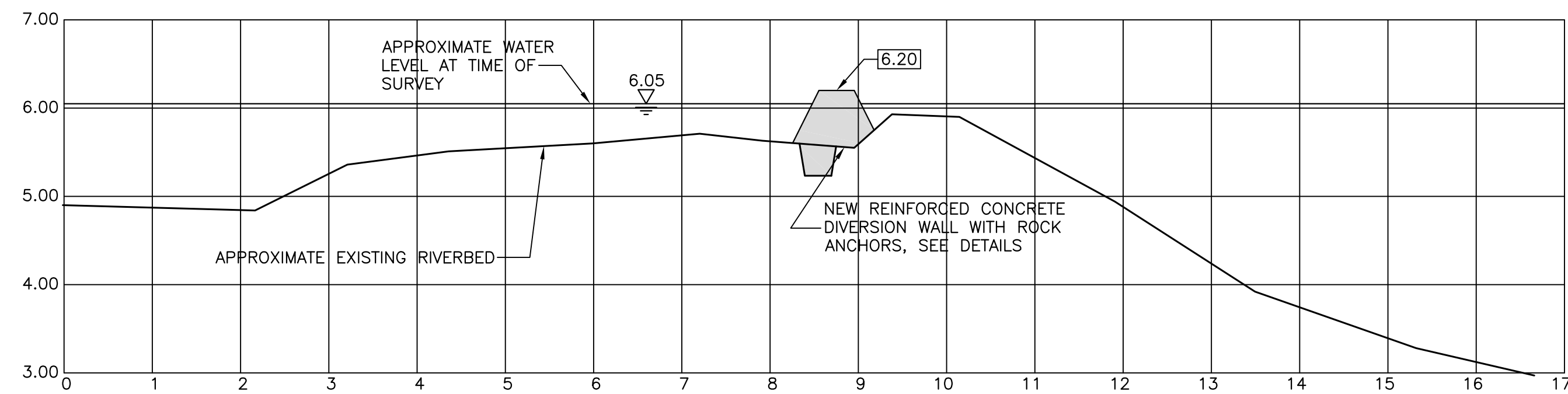
**FISHWAY ENHANCEMENTS
 ROCKY RIVER
 COLINET, NL**

NEW SITE PLAN

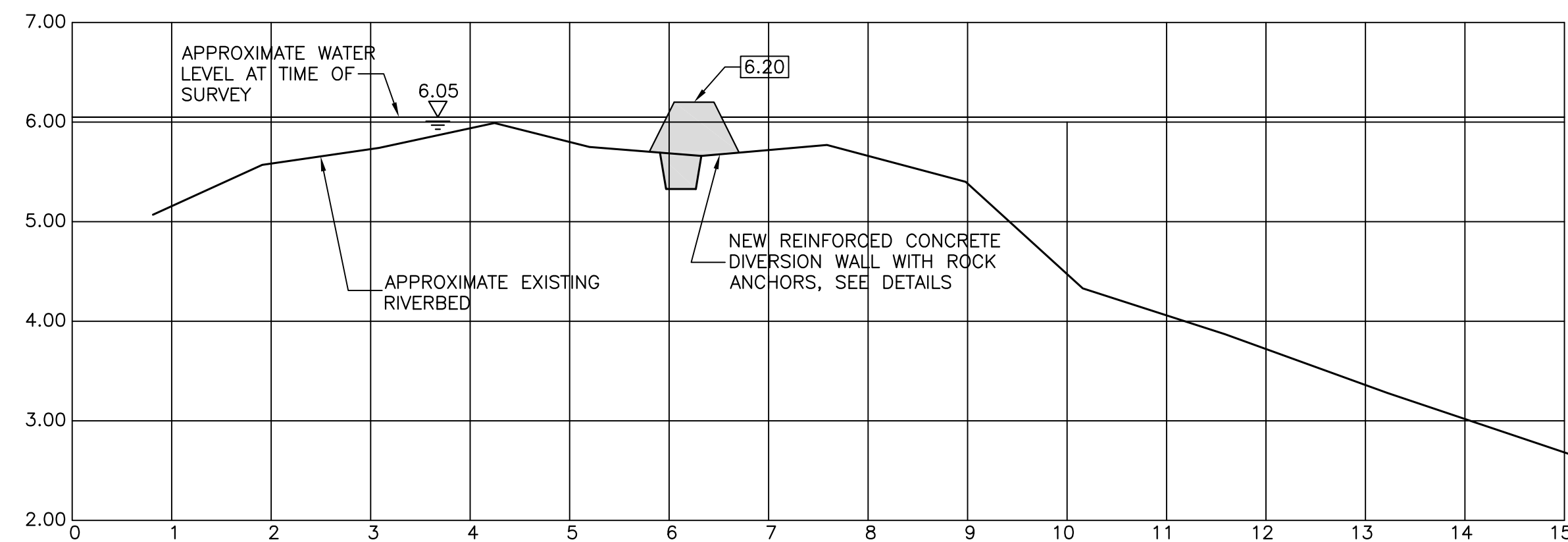
designed C. FISHER	concu
date OCTOBER, 2016	
drawn R. SNOW	designe
date OCTOBER, 2016	
approved	approve
date	
Tender	Soumission
DFO Project Manager Administrateur de projets MPO	
project number no. du projet	
F6879-161005	
drawing no. no. du dessin	
C2 OF 5	



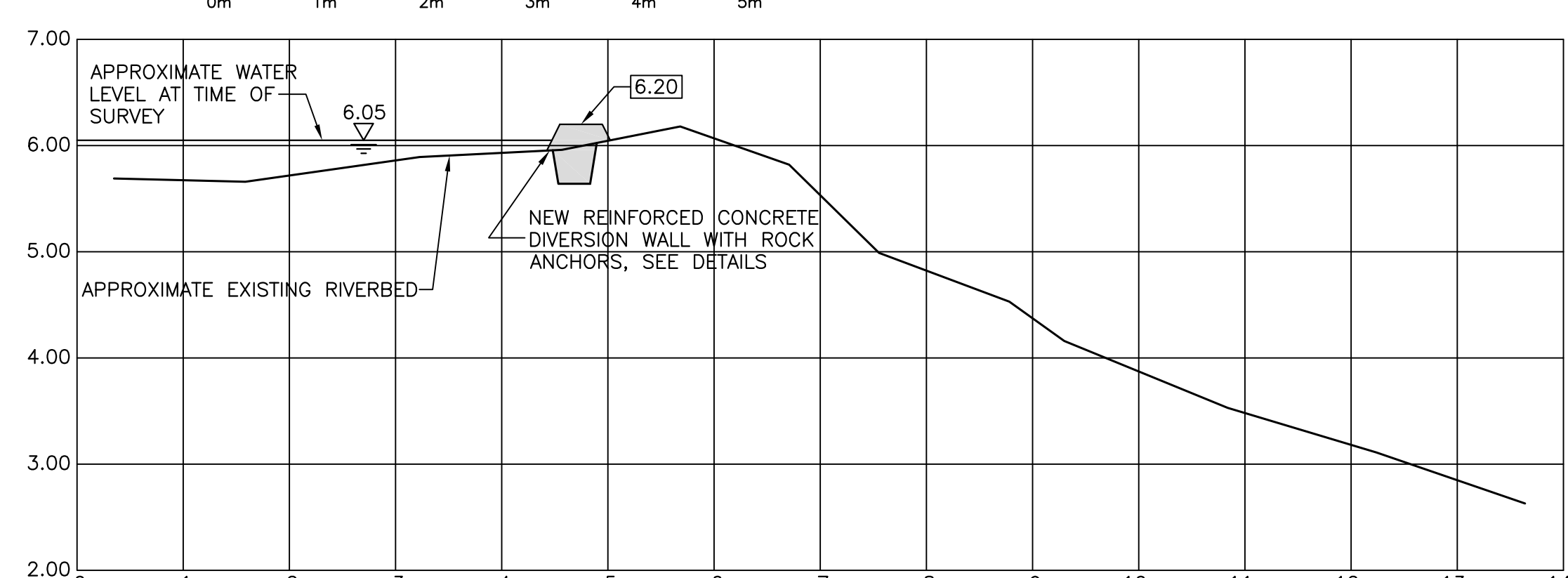
1 DIVERSION WALL #2 - PROFILE
 SCALE: 1:50



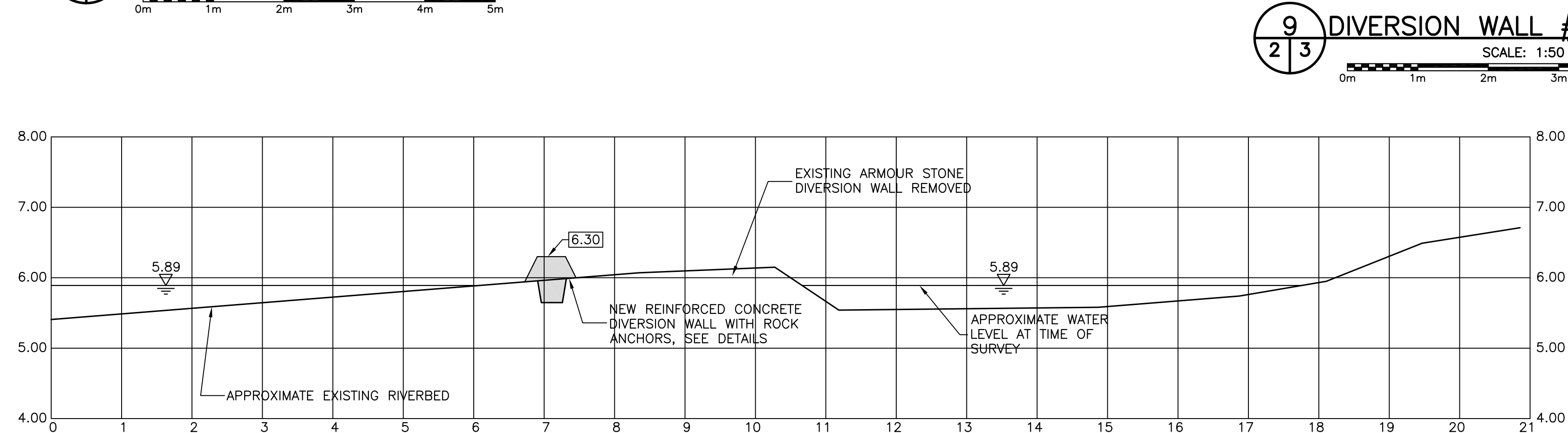
2 DIVERSION WALL #2 - SECTION
 SCALE: 1:50



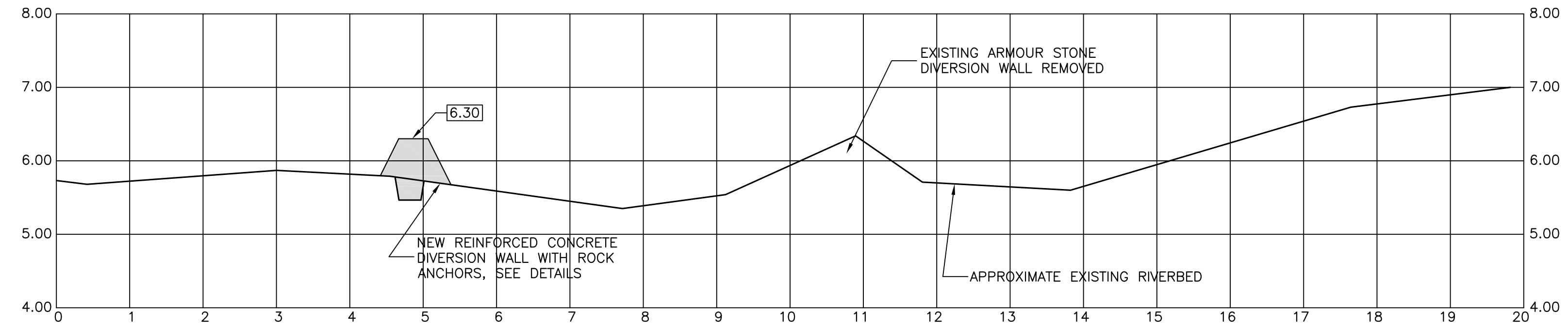
3 DIVERSION WALL #2 - SECTION
 SCALE: 1:50



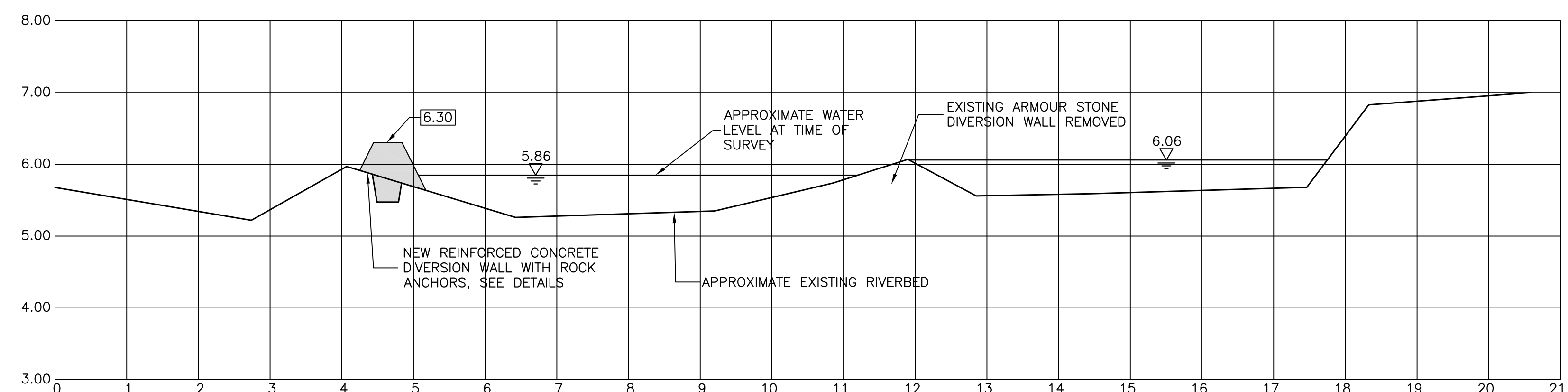
4 DIVERSION WALL #2 - SECTION
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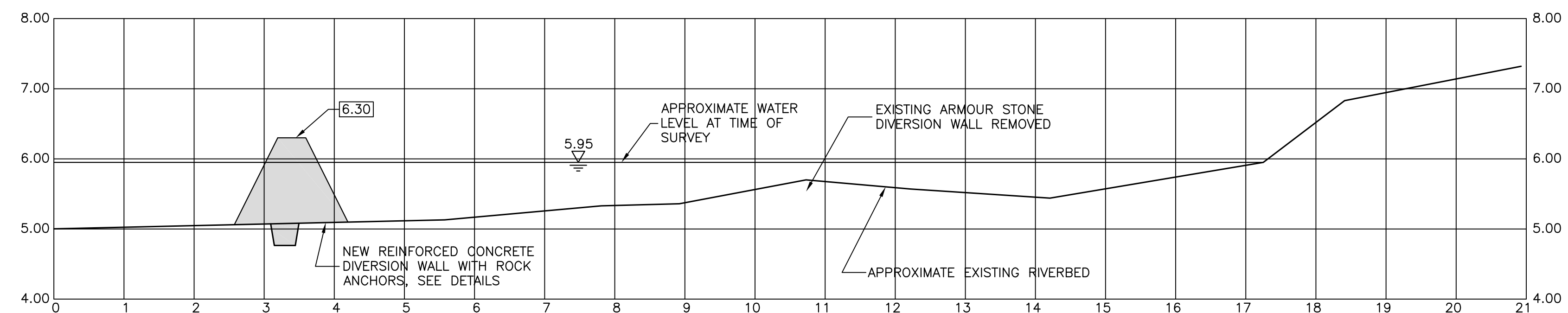
5 DIVERSION WALL #1 - SECTION
 SCALE: 1:50



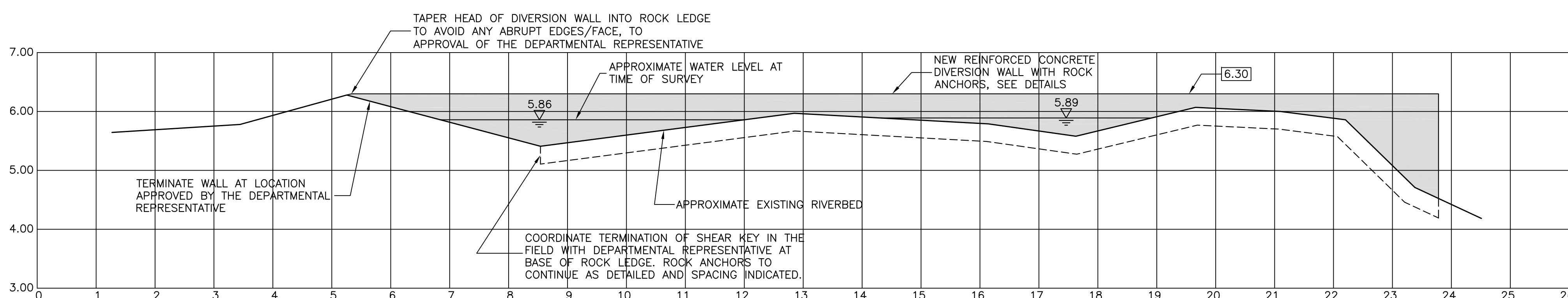
6 DIVERSION WALL #1 - SECTION
 SCALE: 1:50



7 DIVERSION WALL #1 - SECTION
 SCALE: 1:50



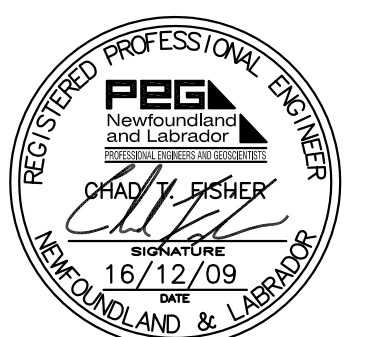
8 DIVERSION WALL #1 - SECTION
 SCALE: 1:50



9 DIVERSION WALL #1 - PROFILE
 SCALE: 1:50

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 WALLS AND CONTROL STRUCTURE 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.
- ALL CONCRETE CONSTRUCTION JOINTS TO BE FORMED WITH A KEYWAY. THE BONDING SURFACES INTENTIONALLY ROUGHENED TO A FULL AMPLITUDE OF 5mm.
- 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.
- ALL NEW PLACED CONCRETE TO BE TINTED TO MATCH THE EXISTING TERRAIN AND TO LOOK AS NATURAL AS POSSIBLE. CONTRACTOR SHALL PROVIDE SAMPLES AND COORDINATE IN THE FIELD WITH THE DEPARTMENTAL REPRESENTATIVE PRIOR TO POURING.
- 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.

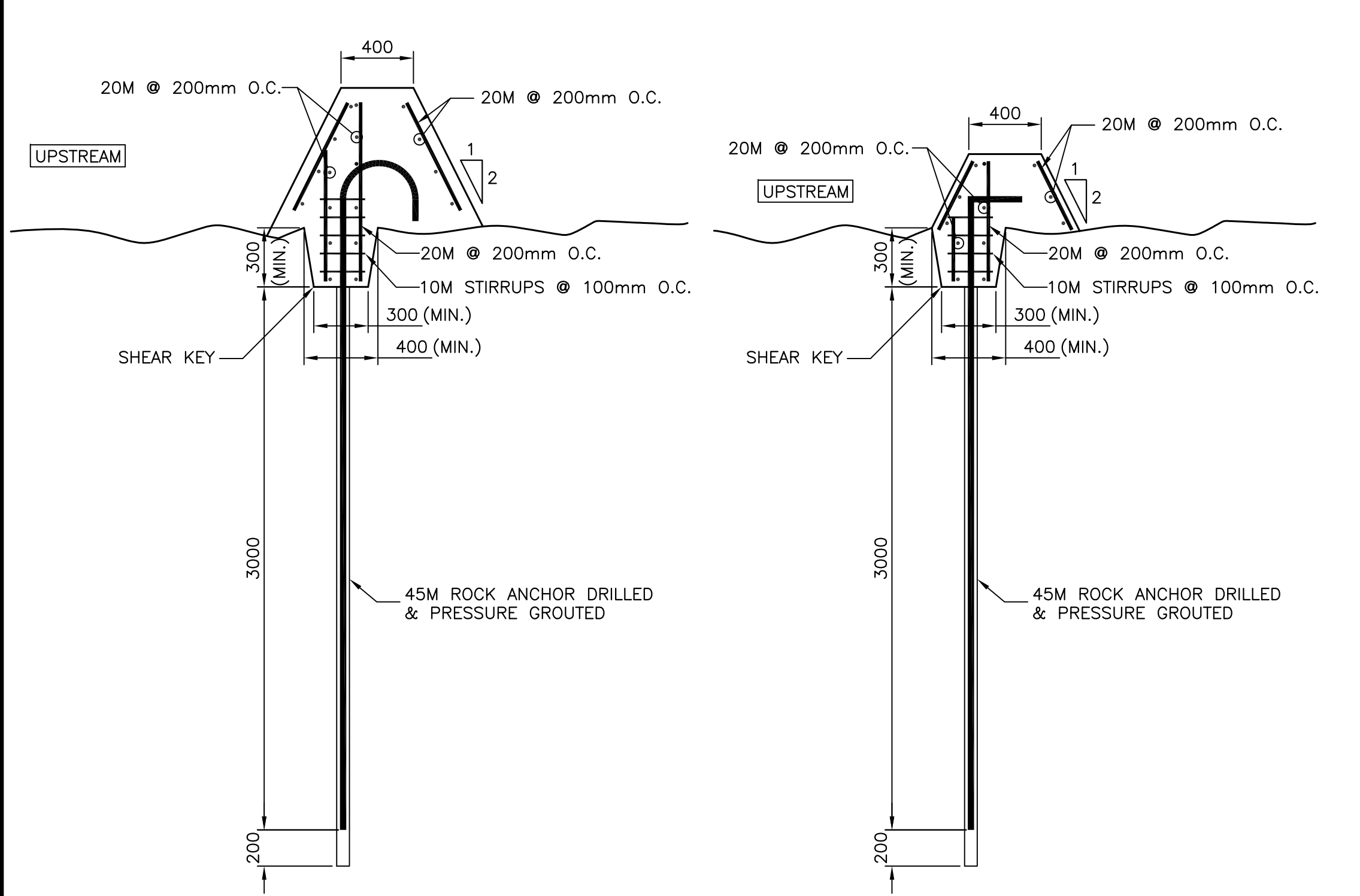


C	ISSUED FOR TENDER	16/12/09
B	ISSUED FOR 99% REVIEW	16/12/09
A	ISSUED FOR 33% REVIEW	16/11/09

**FISHWAY ENHANCEMENTS
 ROCKY RIVER
 COLINET, NL**

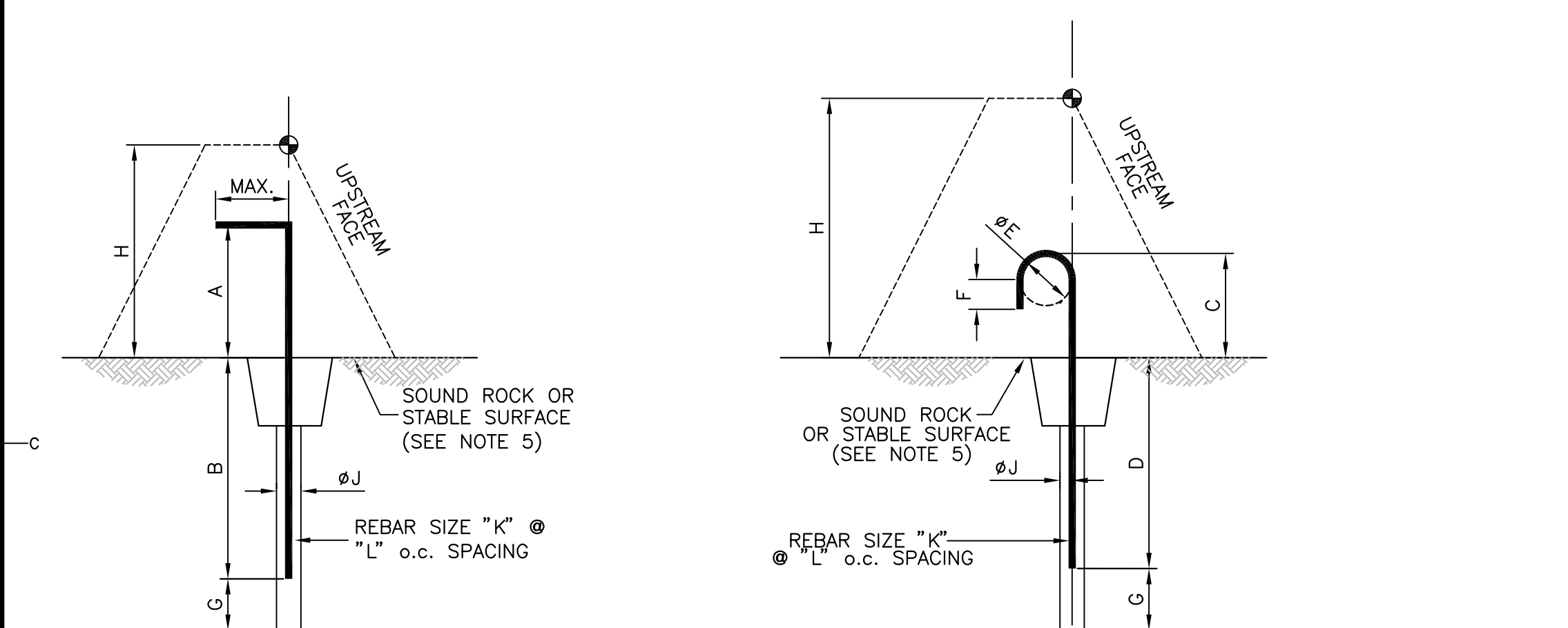
**DIVERSION WALL -
 PROFILES AND SECTIONS**

designed	C. FISHER	concu
date	OCTOBER, 2016	
drawn	R. SNOW	dessine
date	OCTOBER, 2016	
approved		approuvé
date		
Tender		Soumission
DFO Project Manager	Administrateur de projets MPO	
project number		no. du projet
	F6879-161005	
drawing no.		no. du dessin
	C3 OF 5	



1
4 4
TYPICAL CROSS SECTION
— DIVERSION WALL DETAILS
SCALE: 1:25

2
4 4
TYPICAL CROSS SECTION
— DIVERSION WALL DETAILS
SCALE: 1:25

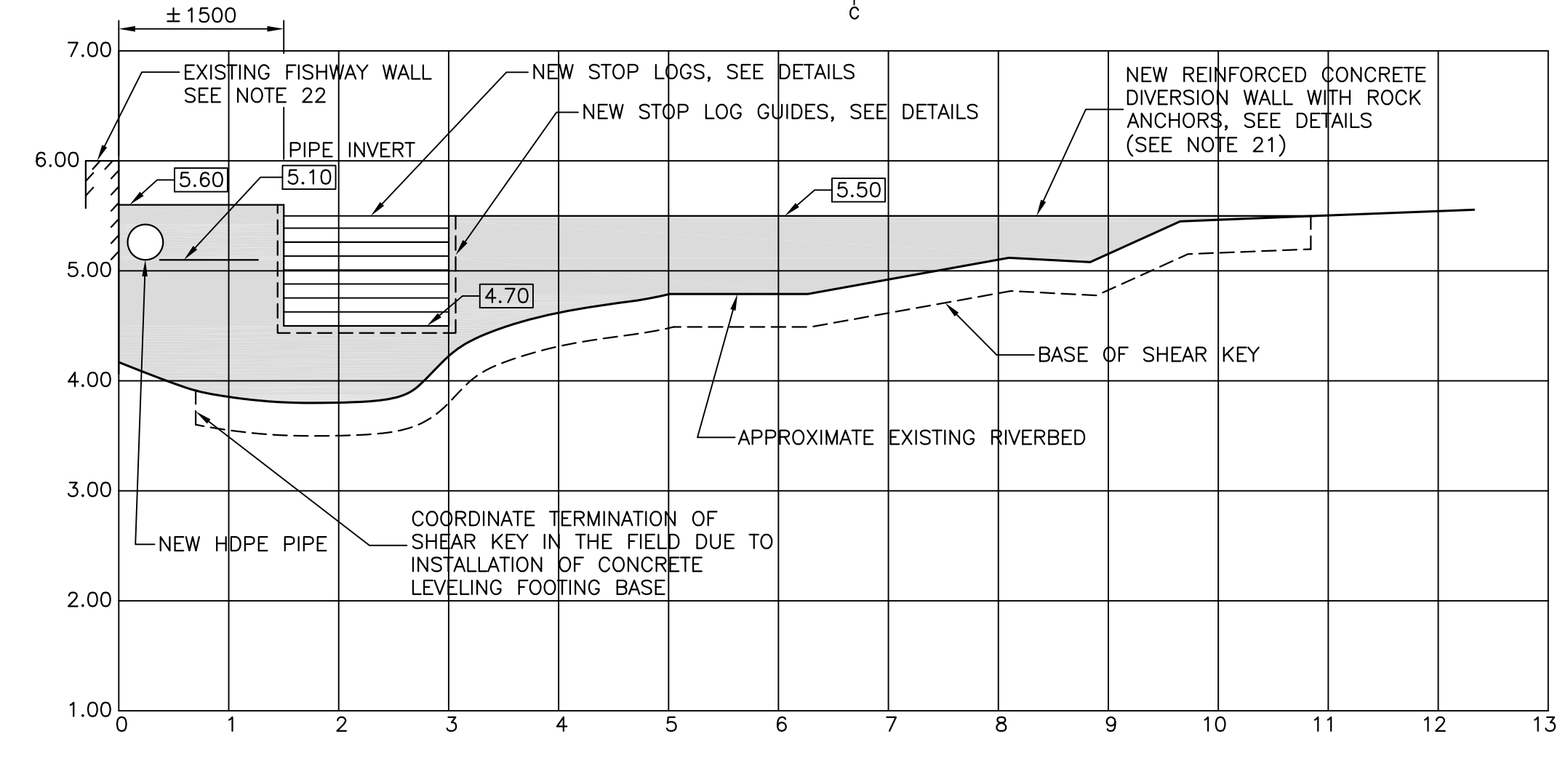


TYPE I ANCHOR **TYPE II ANCHOR**

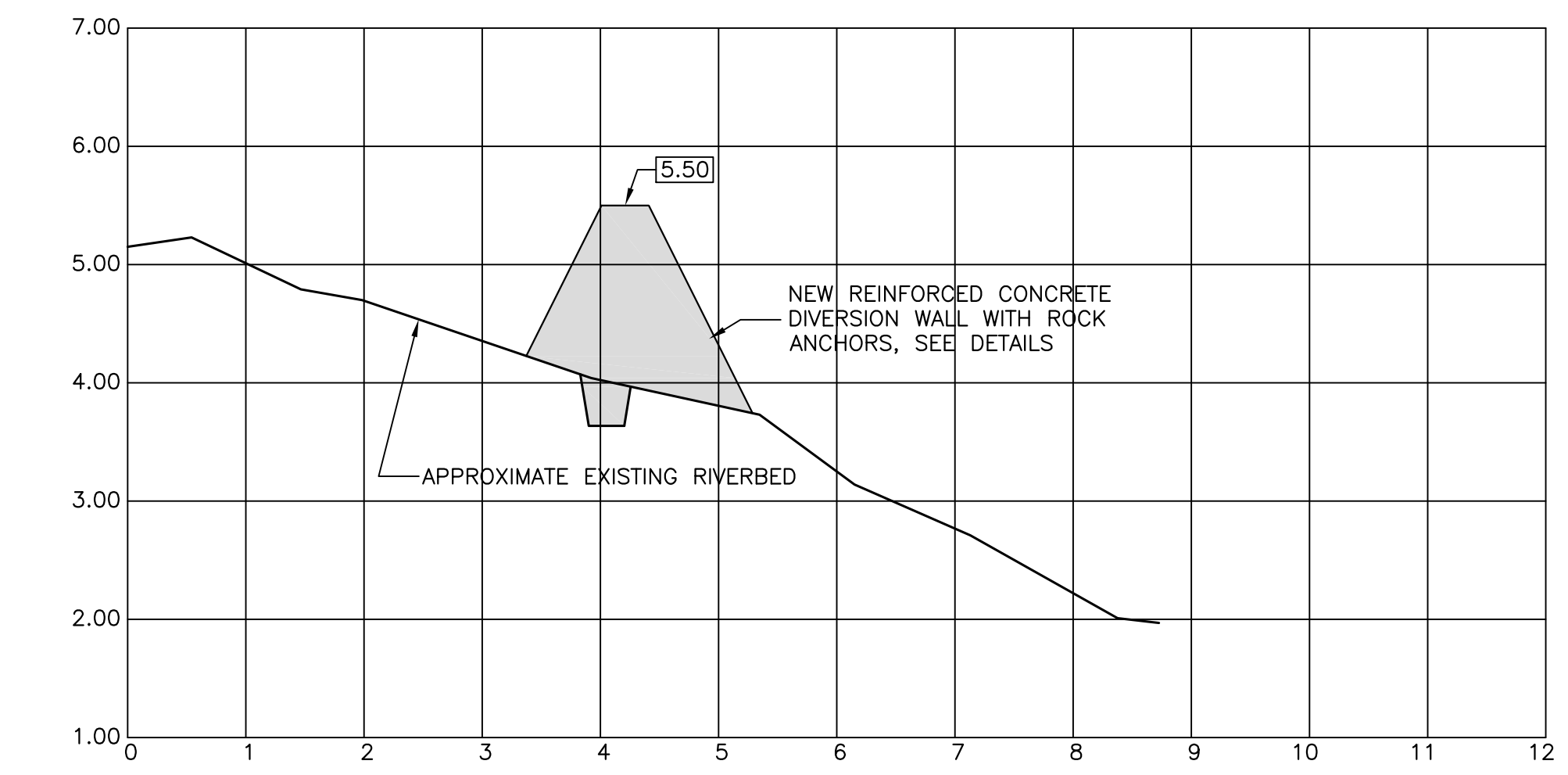
TYPE	DIMENSIONS										REBAR		
	A	B	C	D	E	F	G	H	J	K	L		
I	200	(3300)	—	—	—	—	200	H<500	90	45M	800		
II	—	—	(400)	(3300)	400	(180)	200	500 ≤ H ≤ 2000	90	45M	800		

- (*) DENOTES MINIMUM DIMENSION
- IF THE HEIGHT OF THE DEFLECTION WALL VARIES FROM FRONT TO BACK, THE LARGEST HEIGHT SHALL GOVERN.
- THE CONTRACTOR SHALL CONFIRM LOCATIONS OF ROCK ANCHORS WITH DEPARTMENTAL REPRESENTATIVE PRIOR TO ANY DRILLING.
- IN NO CASE SHALL THERE BE ANY LESS THAN TWO (2) ROCK ANCHORS FOR ONE COMPLETE SECTION OF WALL.

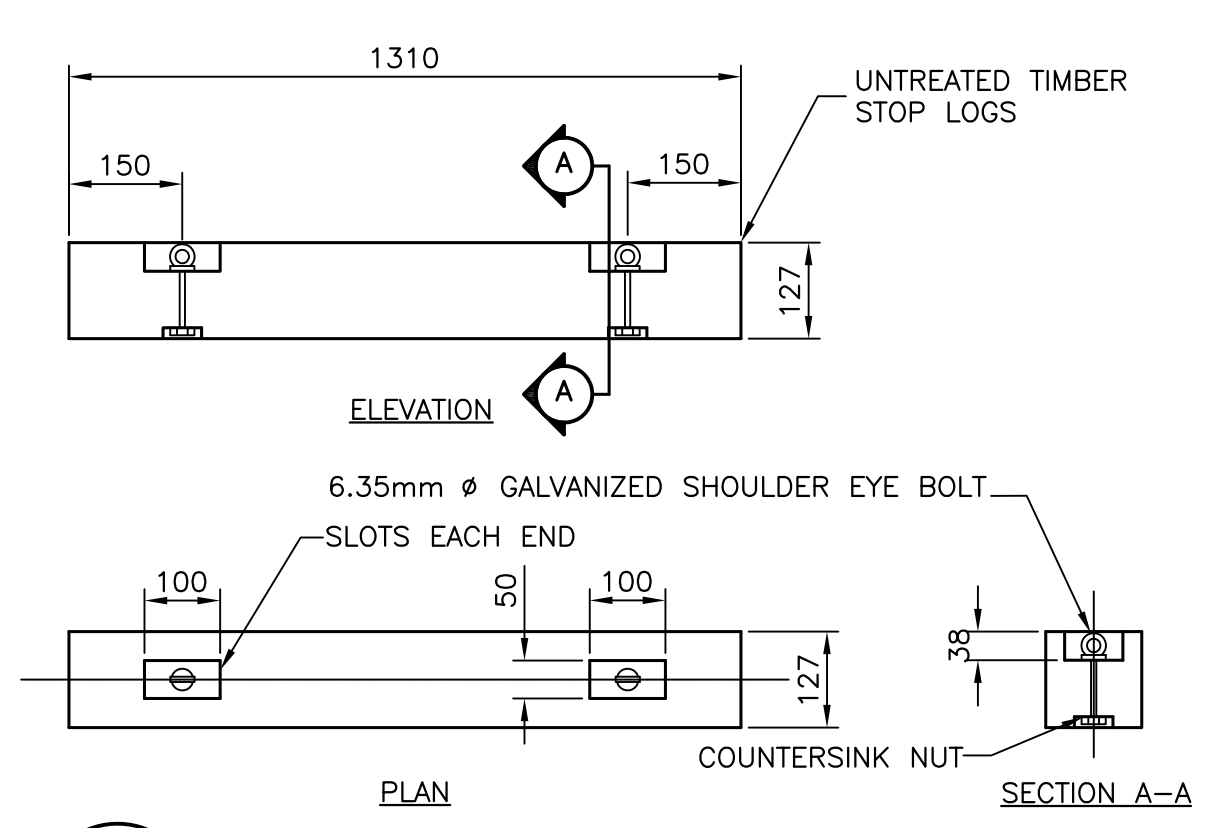
3
4 4
ROCK ANCHOR DETAILS



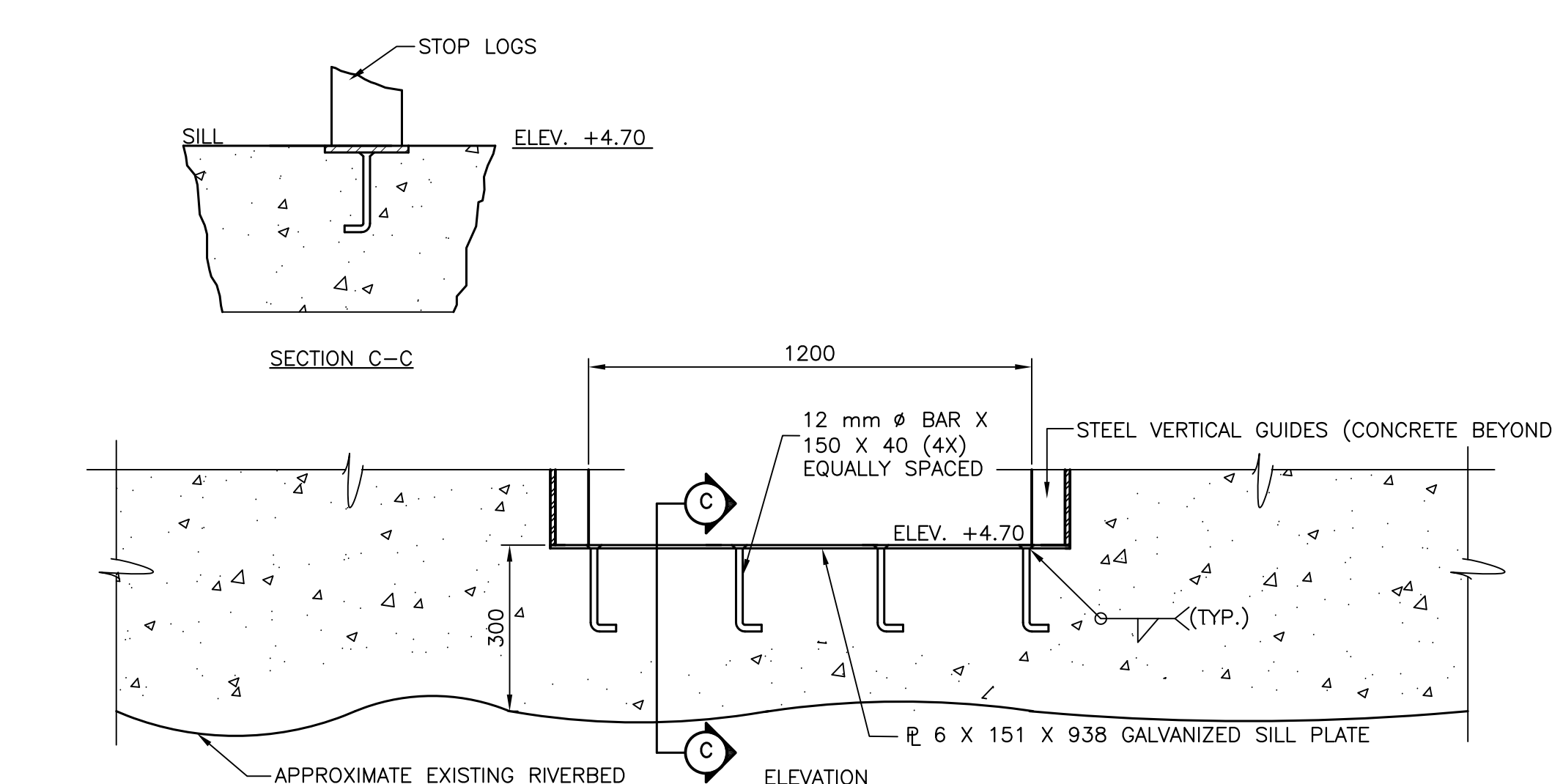
4
2 4
DIVERSION WALL #3 — PROFILE
SCALE: 1:50



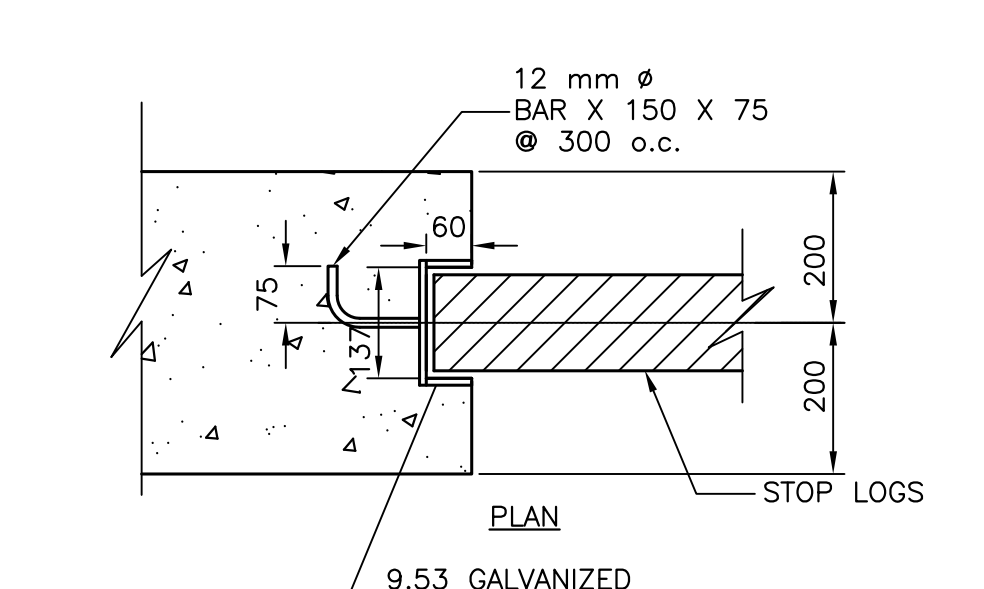
5
2 4
DIVERSION WALL #3 — SECTION
SCALE: 1:50



6
4 4
STOP LOG DETAILS
SCALE: 1:10



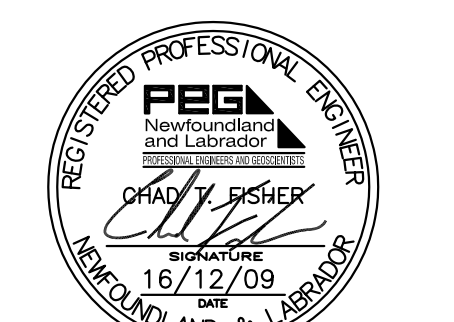
7
4 4
STOP LOGS BASE PLATE DETAILS
SCALE: 1:10



8
4 4
STOP LOGS SLOT DETAILS
SCALE: 1:10

- 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 WALLS AND CONTROL STRUCTURE 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 SOME DETAILS FOR CLARITY. REFER TO APPROPRIATE DETAILS ACCORDINGLY.
 - ALL CONCRETE CONSTRUCTION JOINTS TO BE FORMED WITH A KEYWAY, THE BONDING SURFACES INTENTIONALLY ROUGHENED TO A FULL AMPLITUDE OF 5mm.
 - 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.
 - ALL NEW PLACED CONCRETE TO BE TINTED TO MATCH THE EXISTING TERRAIN AND LOOK AS NATURAL AS POSSIBLE. CONTRACTOR SHALL PROVIDE SAMPLES AND COORDINATE IN THE FIELD WITH THE DEPARTMENTAL REPRESENTATIVE PRIOR TO POURING.
 - 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.
 - CONTRACTOR SHALL SUPPLY AND INSTALL FOUR (4) EYE BOLTS, DRILLED AND EMBEDDED INTO THE NEW REINFORCED CONCRETE DIVERSION WALL #3. EYE BOLTS AND EMBEDMENT DEPTH TO BE RATED FOR FALL ARREST. CONTRACTOR TO CONFIRM EXACT LOCATIONS IN THE FIELD WITH DEPARTMENTAL REPRESENTATIVE AND SUBMIT SHOP DRAWINGS FOR APPROVAL.
 - CONTRACTOR TO CONFIRM TIE IN LOCATION OF DIVERSION WALL #3 INTO THE EXISTING FISHWAY WALL WITH THE DEPARTMENTAL REPRESENTATIVE. CONTRACTOR SHALL CONFIRM ALL EXISTING ELEVATIONS SHOWN ON THE DRAWINGS INCLUDING THE EXISTING FISHWAY STRUCTURE AND SURROUNDING ROCK IN THE AREA OF NEW WORK. FOLLOWING SURVEY CONFIRMATION, CONTRACTOR SHALL COORDINATE EXACT LOCATION OF THE WALL AND LOCATION AND ELEVATION OF THE PIPE INVERT TO ENSURE THE PIPE IS SLOPED TOWARDS THE FISHWAY POOL AND THE UPSTREAM TOPOGRAPHY/FEATURES WILL ALLOW FREE FLOW OF WATER TO THE PIPE WITHOUT ANY OBSTRUCTIONS. COORDINATE WITH THE DEPARTMENTAL REPRESENTATIVE AND OBTAIN APPROVAL IF FIELD ADJUSTMENTS ARE REQUIRED.

PROVINCE OF NEWFOUNDLAND AND LABRADOR
PERMITS
 PERMIT HOLDER
 This Permit Allows
Meridian Engineering Inc.
 Member No. 04378
 To practice Professional Engineering
 in Newfoundland and Labrador.
 Permit No. as issued by PEG, 2015/150
 which is valid for the year 2016.

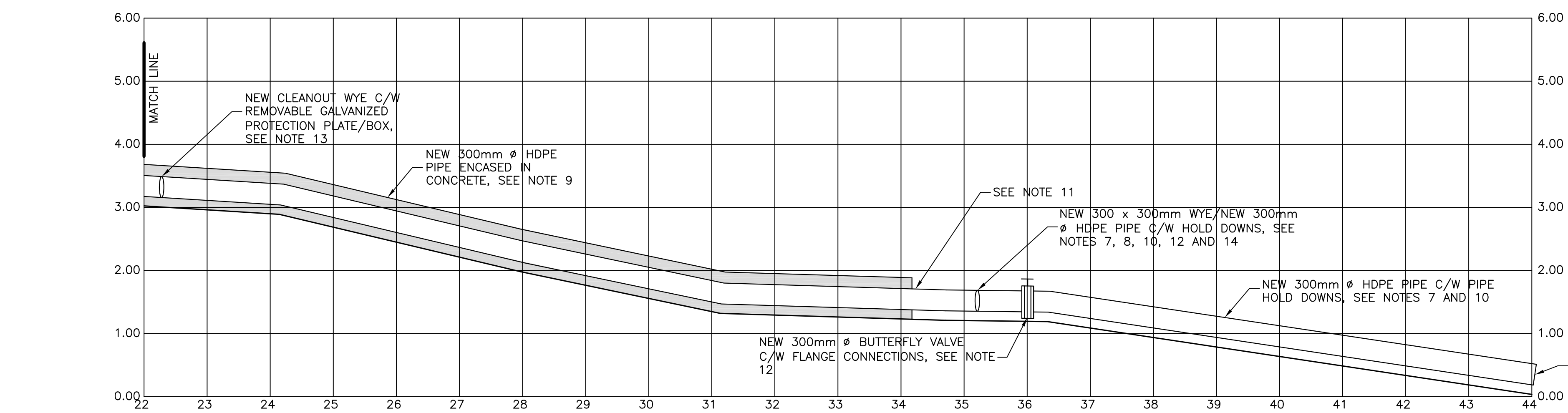
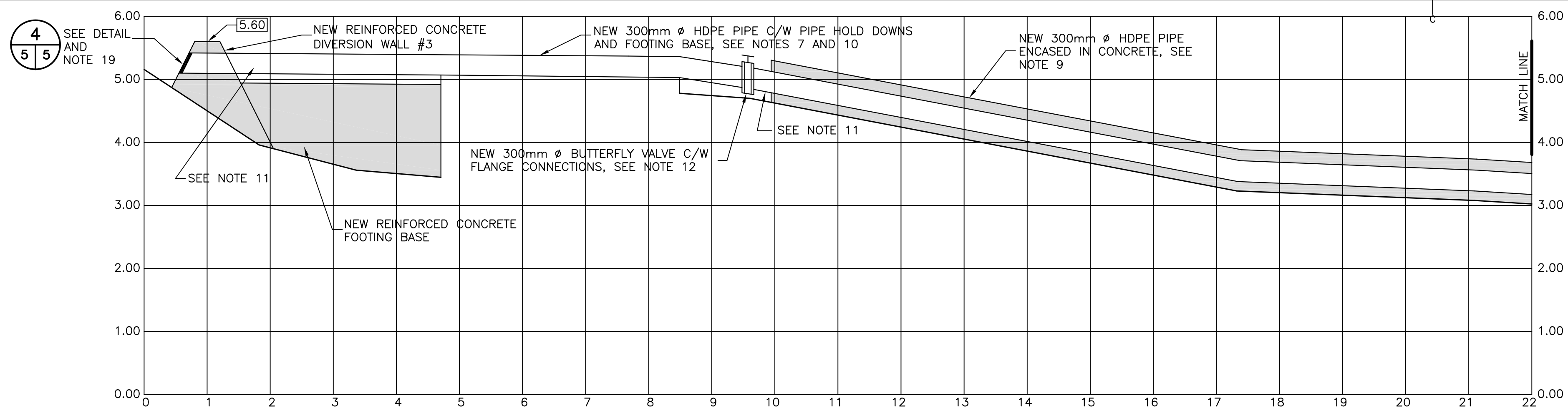


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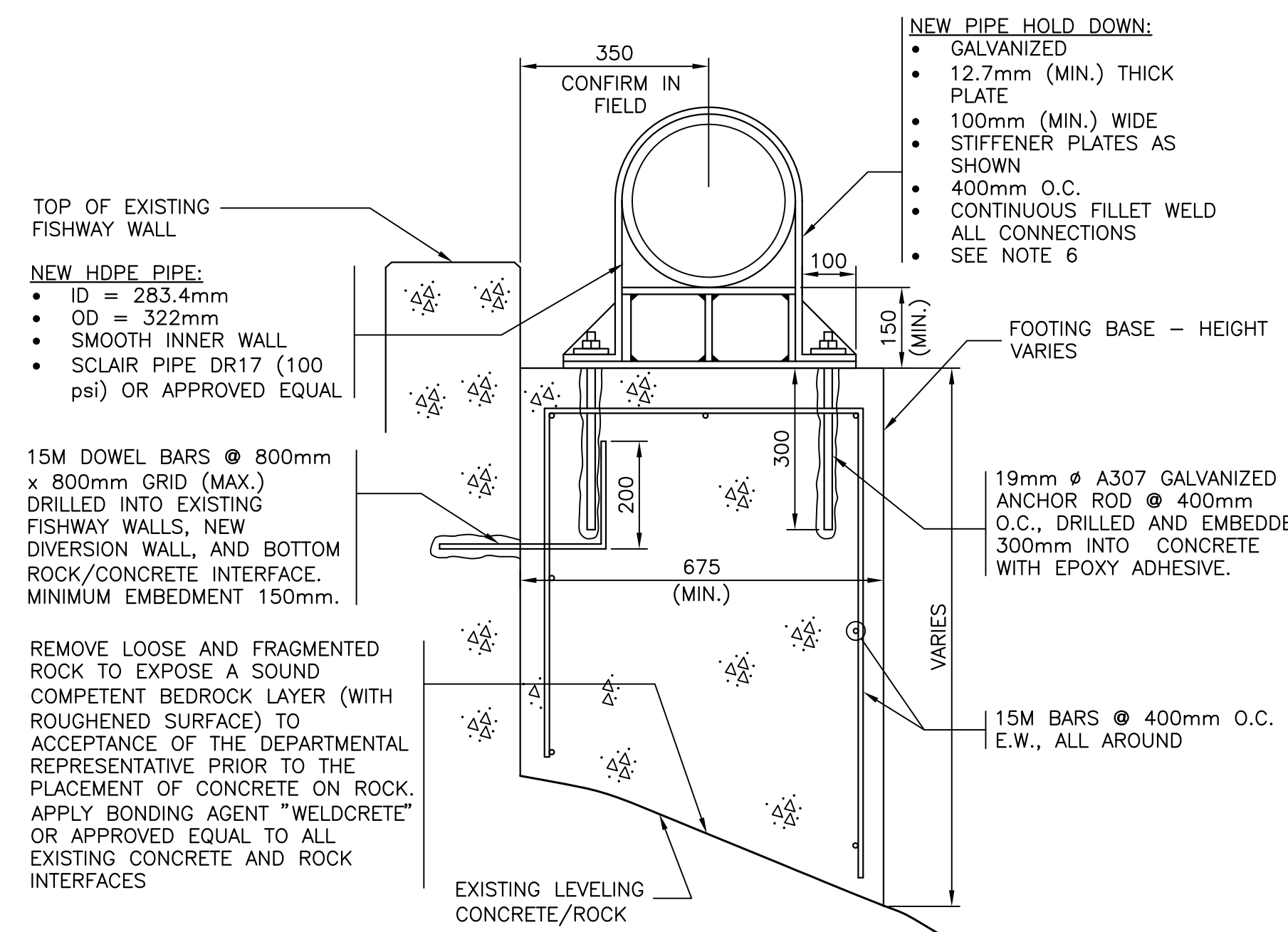
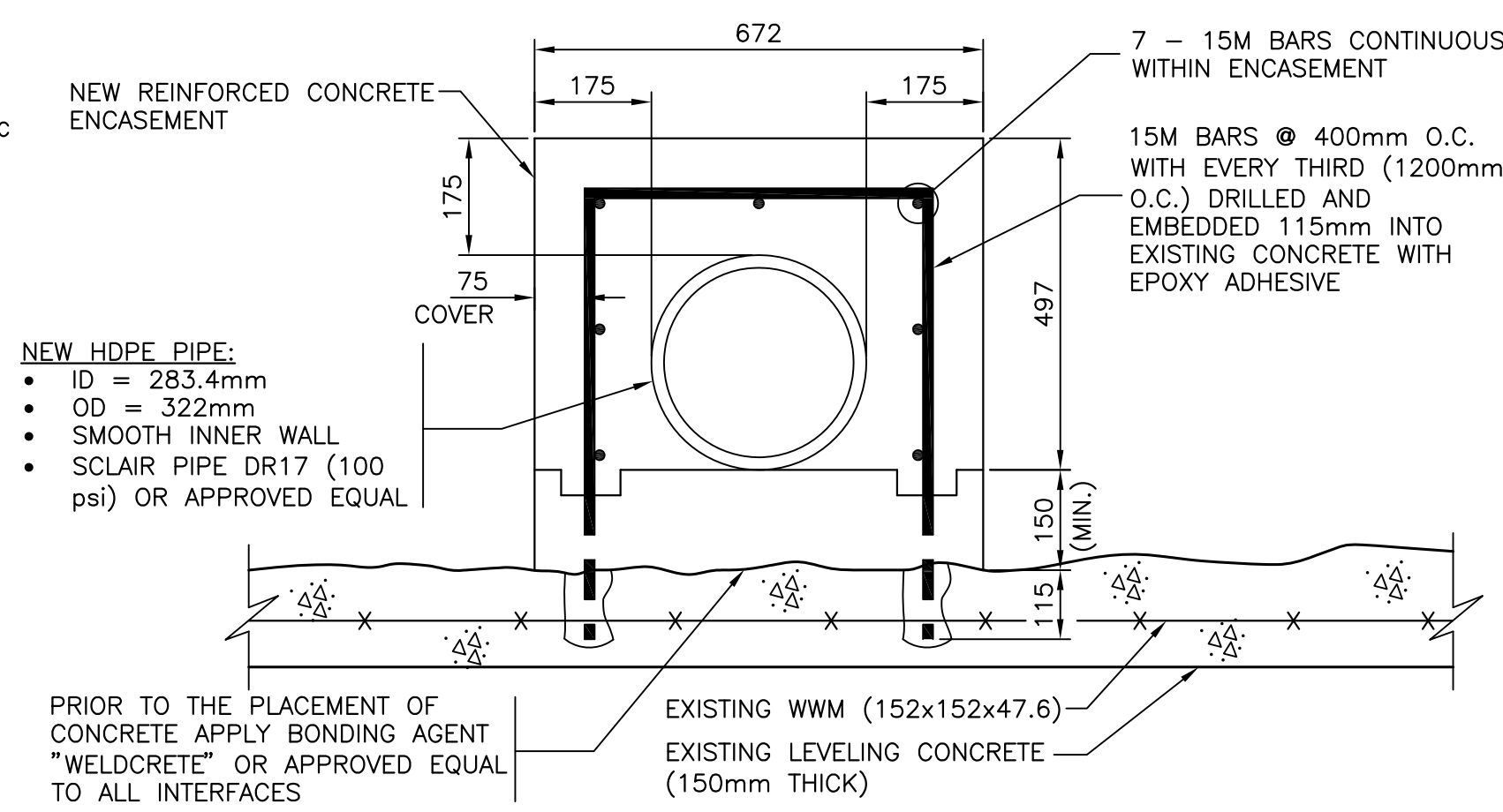
FISHWAY ENHANCEMENTS
ROCKY RIVER
COLINET, NL

DIVERSION WALL —
PROFILE, SECTION
AND DETAILS

designed	C. FISHER	concu
date	OCTOBER, 2016	
drawn	R. SNOW	dessine
date	OCTOBER, 2016	
approved		approuve
date		
Tender		Soumission
DFP Project Manager	Administrateur de projets MPO	
project number		no. du projet
	F6879-161005	
drawing no.		no. du dessin
	C4 OF 5	

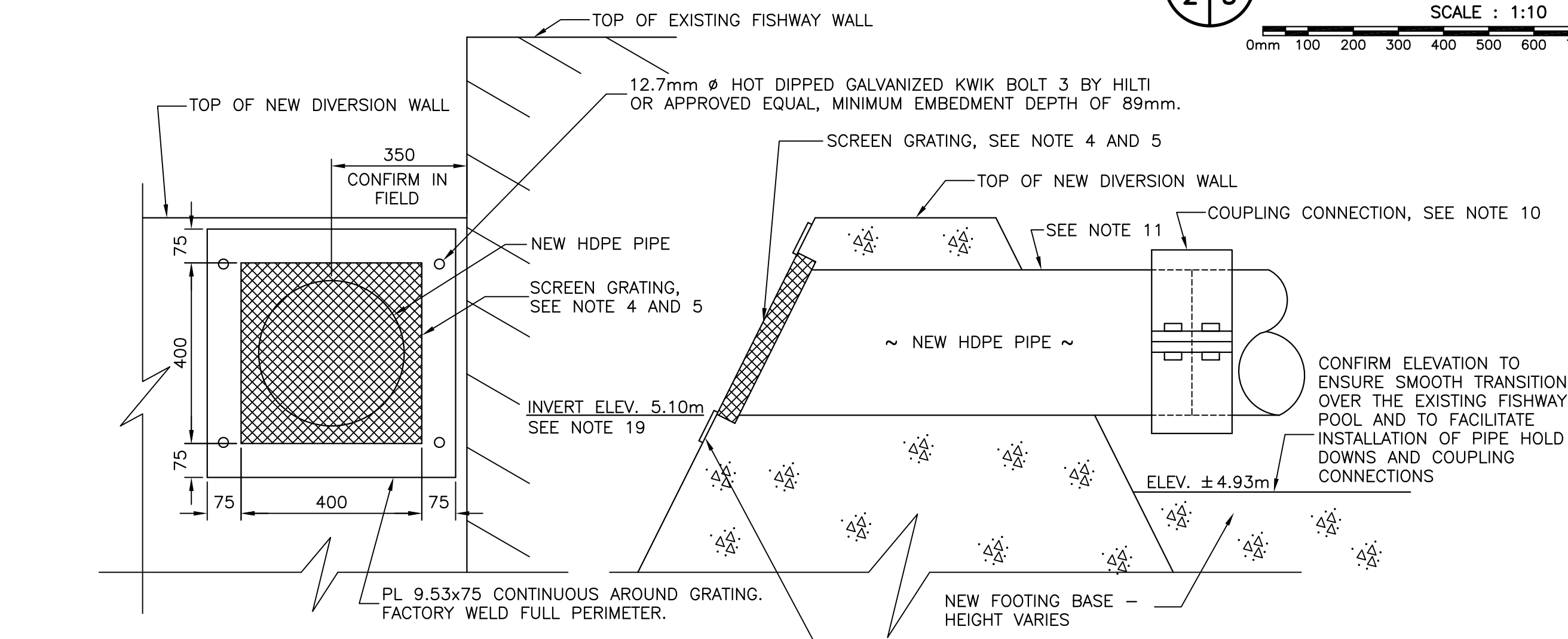


1 ATTRACTION FLOW PIPE - PROFILE

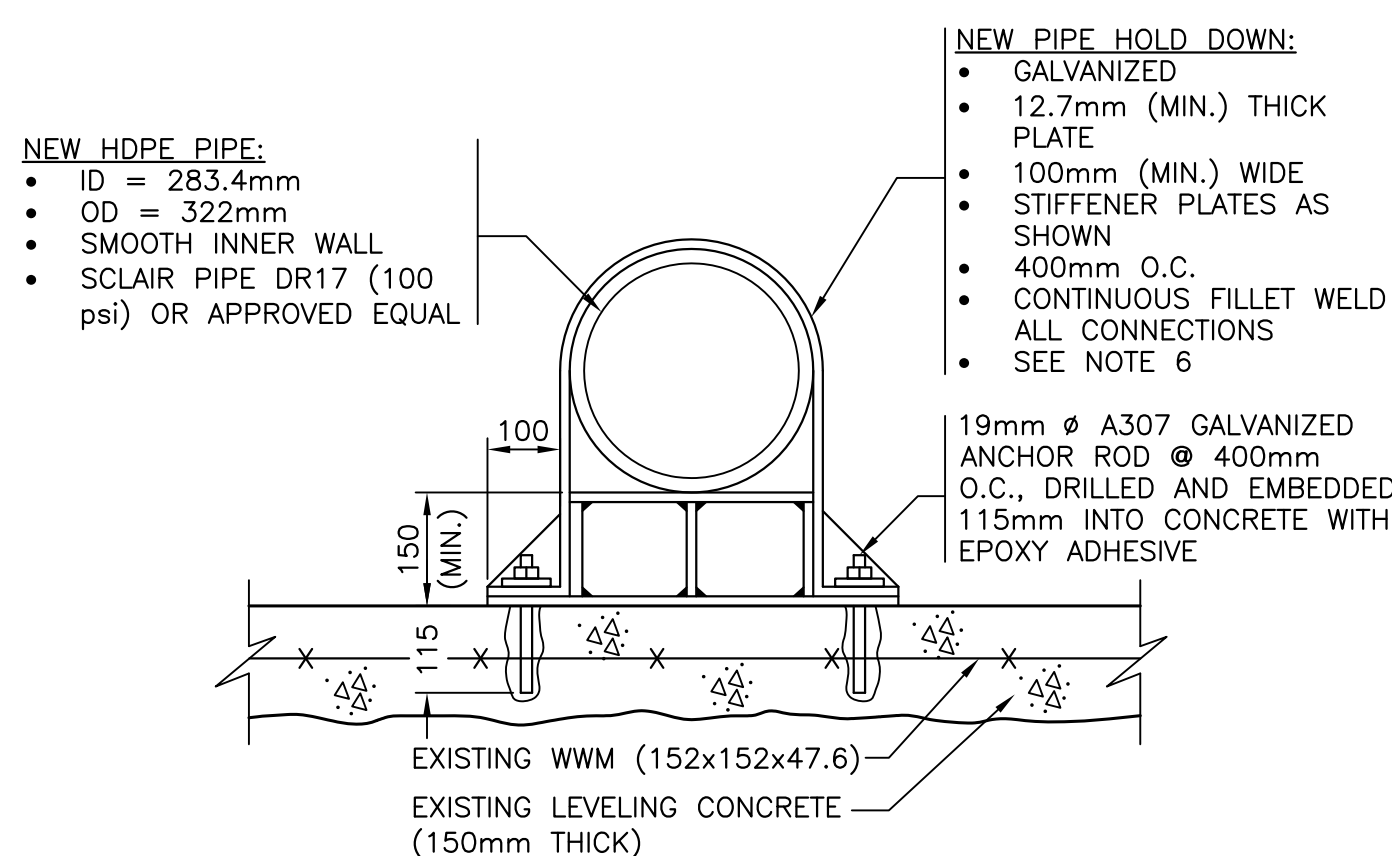


2 ATTRACTION FLOW PIPE - SECTION #1

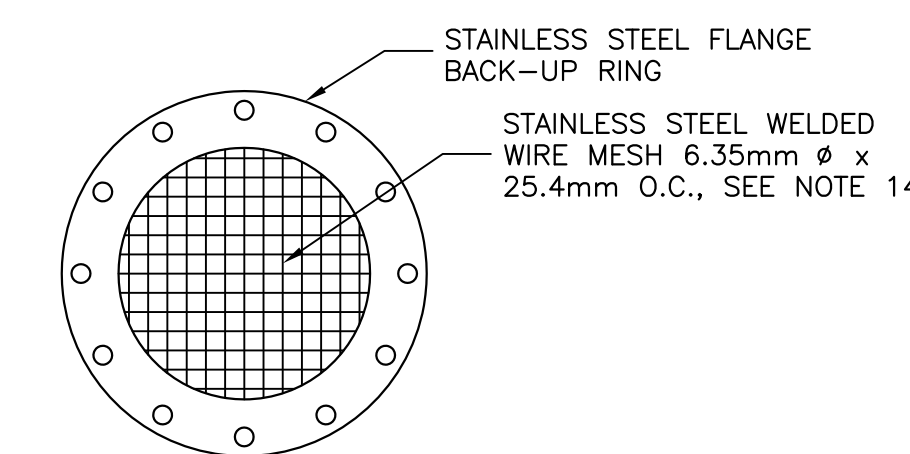
3 ATTRACTION FLOW PIPE - SECTION #2



4 ATTRACTION FLOW PIPE - INLET SCREEN GRATING DETAILS



5 ATTRACTION FLOW PIPE - SECTION #3



6 PIPE SCREEN CAP DETAIL

NOTES:

- ALL DIMENSIONS IN MILLIMETRES UNLESS SPECIFIED OTHERWISE.
- ALL ELEVATIONS IN METRES.
- DO NOT SCALE FROM DRAWINGS, USE DIMENSIONS AS SHOWN.
- ATTRACTION FLOW SCREEN GRATING, BORDEN TYPE E, (18-R-3.5), RIVETED GRATING, NON-SERRATED EDGE, SIZE NO. 9, BEARING BAR SIZE 44.5X5, GALVANIZED OR APPROVED EQUAL. GRATING TO BE FULLY BANDED.
- INLET SCREEN GRATING TO BE FLUSH WITH FACE OF DIVERSION WALL AND BE COMPLETELY REMOVABLE. CONTRACTOR SHALL PROVIDE A 9.53mm THICK GALVANIZED STEEL PLATE TO MATCH THE DIMENSIONS OF SCREEN FRAME C/W BOLT HOLES TO ALLOW INSTALLATION OVER THE INLET IN PLACE OF THE SCREEN GRATING DURING OFF SEASON. PROVIDE 6mm THICK x 50mm WIDE CONTINUOUS NEOPREEN GASKET AROUND PERIMETER OF NEW STEEL PLATE BETWEEN PLATE AND CONCRETE INTERFACE.
- NEW GALVANIZED PIPE HOLD DOWNS TO BE FABRICATED WITH THE MINIMUM DIMENSIONS INDICATED, OR AS REQUIRED TO SUIT THE PIPE SIZE AND APPLICATION AS PER MANUFACTURER'S RECOMMENDATIONS. RAISED PORTION OF THE HOLD DOWNS TO BE 150mm MINIMUM OR AS REQUIRED TO FACILITATE VALVE AND COUPLING CONNECTIONS. CONTRACTOR TO SUBMIT FABRICATION SHOP DRAWING FOR APPROVAL.
- NEW HDPE ATTRACTION FLOW PIPE SYSTEM TO INCLUDE ALL NECESSARY FITTINGS, CONNECTIONS, VALVES, BENDS, WYES, SCREEN CAPS, PIPE HOLD DOWNS AND ALL OTHER MATERIALS REQUIRED TO INSTALL THE PIPE AS SHOWN AND AS DIRECTED IN THE FIELD BY THE DEPARTMENTAL REPRESENTATIVE. PLEASE NOTE, THE CONTRACTOR SHALL CONFIRM THE EXACT LOCATION AND DISCHARGE POINT WITH THE DEPARTMENTAL REPRESENTATIVE IN THE FIELD. PRIOR TO FINAL INSTALLATION OF THE PIPE HOLD DOWNS, CONTRACTOR SHALL TEMPORARILY SUPPORT THE PIPE(S) AND OPEN SYSTEM (I.E. ALLOW WATER TO PASS THROUGH). OPEN SYSTEM IN THE PRESENCE OF THE DEPARTMENTAL REPRESENTATIVE IN BOTH LOW AND HIGH TIDE CONDITIONS. CONTRACTOR SHALL BE EXPECTED TO MAKE ADJUSTMENTS TO ENSURE SYSTEM IS OPERATING TO THE APPROVAL OF DEPARTMENT REPRESENTATIVE. FOLLOWING APPROVAL OF THE PIPE DISCHARGE LOCATIONS, THE CONTRACTOR SHALL THEN PROCEED TO INSTALL PIPE HOLD DOWNS IN THEIR FINAL LOCATION AND REMOVE ALL TEMPORARY SUPPORTS.
- ATTRACTION FLOW PIPE TO TURN 90 DEGREES AND EXTEND DOWN INTO THE EXISTING FISHWAY POOL. COORDINATE IN THE FIELD WITH THE DEPARTMENTAL REPRESENTATIVE FOR ACTUAL DISCHARGE POINT (ALLOW 2m OF PIPE TO EXTEND DOWN INTO THE POOL). SUPPORT THE PIPE VERTICALLY ALONG THE INSIDE WITH PIPE HOLD DOWNS ANCHORED INTO THE EXISTING WALL. CUT EXISTING GRATING AS REQUIRED TO ALLOW PIPE TO ENTER THE POOL AND PROVIDE AUXILIARY SUPPORTS. MINIMIZE OPENING AND PROVIDE BANDING AROUND CUT PERIMETER TO ELIMINATE ANY SHARP EDGES. INSTALL L 76mm X 76mm X 9.5mm GALVANIZED STEEL ANGLE TO SUPPORT EXISTING CUT GRATING TO ENSURE FULL SUPPORT IS PROVIDED. ANGLE TO BE WELDED TO EXISTING STEEL SUPPORT AND CONCRETE ANCHORED INTO EXISTING CONCRETE WALL WITH 12.7mm Ø GALVANIZED ANCHOR BOLTS. SHOP DRAWINGS FOR MODIFICATION TO THE GRATING SUPPORTS TO BE SUBMITTED UNDER SEAL OF PROFESSIONAL ENGINEER LICENCED IN NEWFOUNDLAND AND LABRADOR ALONG WITH THE NECESSARY FABRICATION DETAILS/DESIGN.
- ALL HDPE PIPE ENCASED IN CONCRETE TO BE JOINED BY THE METHOD OF THERMAL BUTT FUSION. ENCASE HDPE PIPE IN CONCRETE AS PER MANUFACTURER'S RECOMMENDATIONS. SUPPLY AND INSTALL ANY ADDITIONAL FITTINGS, JOINTS AND/OR COMPRESSIBLE WRAP AS REQUIRED.
- EXPOSED PIPE SECTIONS LOCATED UPSTREAM AND DOWNSTREAM OF THE CONCRETE ENCASEMENT SHALL BE JOINED BY BOTH THERMAL BUTT FUSION AND COUPLINGS. PIPE SECTIONS TO BE JOINED SUCH THAT IT CAN EASILY BE DISASSEMBLED AND BE REMOVED FROM SITE DURING OFF SEASON WITH MANPOWER ONLY. CONTRACTOR TO SUBMIT PIPE LAYOUT PLAN WITH LOCATION OF COUPLINGS FOR APPROVAL PRIOR TO INSTALLATION.
- PIPE TO EXTEND PASS CONCRETE WITH SUFFICIENT LENGTH TO FACILITATE INSTALLATION OF THE COUPLING CONNECTIONS. CONTRACTOR SHALL PROVIDE END CAP AND GALVANIZED PROTECTION BOXES TO BE INSTALLED OVER THE STUB ENDS ONCE THE PIPE IS REMOVED DURING THE OFFSEASON. PROTECTION BOXES TO BE A MINIMUM 9.53mm THICK, SIZED AS REQUIRED TO COVER THE STUB END COMPLETELY AND ATTACHED TO THE CONCRETE WITH 12.7mm Ø GALVANIZED ANCHORS. CONTRACTOR TO SUBMIT FABRICATION SHOP DRAWING FOR APPROVAL.
- BUTTERFLY VALVES TO BE INSTALLED TO HDPE PIPE WITH FLANGE CONNECTIONS. FLANGE BACKUP RING AND BOLT HARDWARE TO BE STAINLESS STEEL. REFER TO SPECIFICATION. COORDINATE EXACT LOCATION IN THE FIELD.
- CONTRACTOR SHALL INSTALL END CAP AND GALVANIZED PROTECTION BOX OVER THE STUB END AT CLEANOUT LOCATIONS. PROTECTION BOXES TO BE A MINIMUM 9.53mm THICK, SIZED AS REQUIRED TO COVER THE STUB END COMPLETELY AND ATTACHED TO THE CONCRETE WITH 12.7mm Ø GALVANIZED ANCHORS. CONTRACTOR TO SUBMIT FABRICATION SHOP DRAWING FOR APPROVAL.
- INSTALL STAINLESS STEEL SCREEN CAP AT THE END OF EACH PIPE WITH FLANGE CONNECTION. SCREEN CAP SHOWN FOR GENERAL CONFIGURATION PURPOSES ONLY. CONTRACTOR TO SUBMIT FABRICATION SHOP DRAWING FOR APPROVAL.
- ALL ANCHOR BOLTS AND DOWELS TO BE ANCHORED INTO CONCRETE WITH HILTI HIT-RE 500 EPOXY ADHESIVE, OR APPROVED EQUAL.
- ALL NEW PLACED CONCRETE TO BE TINTED TO MATCH THE EXISTING TERRAIN AND TO LOOK AS NATURAL AS POSSIBLE. CONTRACTOR SHALL PROVIDE SAMPLES AND COORDINATE IN THE FIELD WITH THE DEPARTMENTAL REPRESENTATIVE PRIOR TO POURING.
- 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.
- CONTRACTOR TO PROVIDE ONE (1) ADDITIONAL BUTTERFLY VALVE AND THREE (3) ADDITIONAL PIPE COUPLINGS TO STORE ON-SITE FOR FUTURE USE.
- CONTRACTOR TO CONFIRM TIE IN LOCATION OF DIVERSION WALL #3 INTO THE EXISTING FISHWAY WALL WITH THE DEPARTMENTAL REPRESENTATIVE. CONTRACTOR SHALL CONFIRM ALL EXISTING ELEVATIONS SHOWN ON THE DRAWINGS INCLUDING THE EXISTING FISHWAY STRUCTURE AND SURROUNDING ROCK IN THE AREA OF NEW WORK. FOLLOWING SURVEY CONFIRMATION, CONTRACTOR SHALL COORDINATE EXACT LOCATION OF THE WALL AND LOCATION AND ELEVATION OF THE PIPE INVERT TO ENSURE THE PIPE IS SLOPED TOWARDS THE FISHWAY POOL AND THE UPSTREAM TOPOGRAPHY/FEATURES WILL ALLOW FREE FLOW OF WATER TO THE PIPE WITHOUT ANY OBSTRUCTIONS. COORDINATE WITH THE DEPARTMENTAL REPRESENTATIVE AND OBTAIN APPROVAL IF FIELD ADJUSTMENTS ARE REQUIRED.

PROVINCE OF NEWFOUNDLAND AND LABRADOR
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 This Permit Allows
Meridian Engineering Inc.
 Member No. 04378
 To practice Professional Engineering in Newfoundland and Labrador.
 Permit No. as issued by PEG, 201501, which is valid for the year 2016.

REGISTERED PROFESSIONAL ENGINEER
PEG
 Newfoundland and Labrador
 6/12/09
 NEWFOUNDLAND & LABRADOR

B	ISSUED FOR TENDER	16/12/08
A	ISSUED FOR 99% REVIEW	16/12/02
revisions		date
project		project

**FISHWAY ENHANCEMENTS
 ROCKY RIVER
 COLINET, NL**

**ATTRACTION FLOW PIPE
 - PROFILE, SECTIONS,
 AND DETAILS**

designed C. FISHER	concu
date OCTOBER, 2016	
drawn R. SNOW	dessine
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