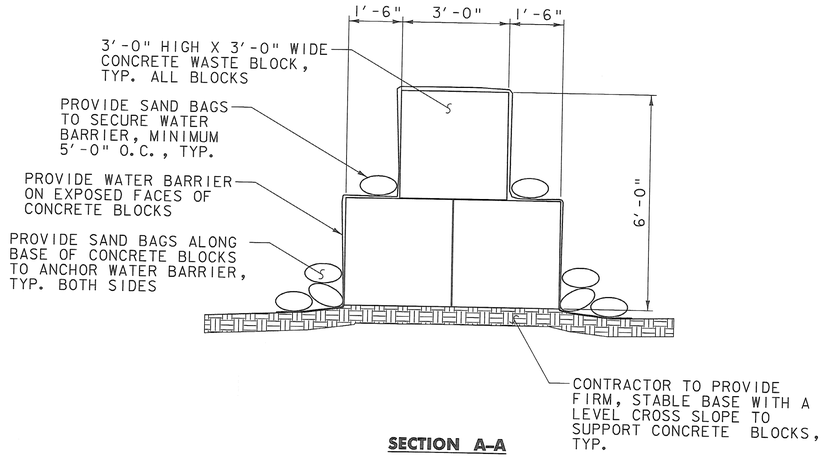
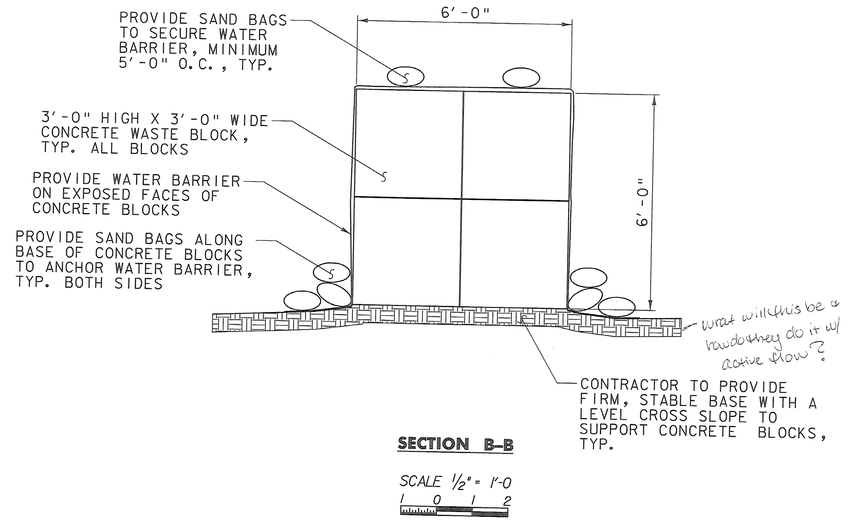


SECTION A–A

SCALE 1/2" = 1'-0



SECTION B–B

SCALE 1/2" = 1'-0

GENERAL NOTES

1. ALL MATERIALS AND CONSTRUCTION SHALL CONFORM TO THE AGENCY OF TRANSPORTATION'S STANDARD SPECIFICATIONS FOR CONSTRUCTION, DATED 2001, AND ITS LATEST REVISIONS, AND THE AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES, SEVENTEENTH EDITION, AND ITS LATEST REVISIONS.
2. THE CONTRACTOR SHALL REVIEW AND UNDERSTAND ALL APPLICABLE ENVIRONMENTAL PERMITS AND INSURE THAT ALL CONDITIONS ARE MET.
3. ALL DIMENSIONS ARE HORIZONTAL OR VERTICAL AND ARE GIVEN AT 20 DEGREES C UNLESS OTHERWISE NOTED.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MONITORING WATER LEVELS DURING STORM EVENTS.
5. ALL EQUIPMENT AND MATERIALS SHALL BE REMOVED FROM BEHIND THE COFFERDAM WHEN WORK IS NOT ACTIVELY BEING PERFORMED.
6. THE WATER BARRIER SHALL HAVE SHALL HAVE AS FEW SPLICES AS POSSIBLE. WHERE SPLICES OCCUR, THE OVERLAP SHALL BE A MINIMUM OF 3-FEET, AND SHALL BE ORIENTED IN THE DOWNSTREAM DIRECTION.
7. CONTRACTOR SHALL BE RESPONSIBLE FOR ROUTINE INSPECTION OF SAND BAGS AND WATER BARRIER TO ENSURE THAT BOTH ARE FUNCTIONING CORRECTLY AND ARE KEPT IN THE PROPER POSTION.

DESIGN

1. THE COFFERDAM WAS DESIGNED USING THE STRIP FOOT METHOD.
2. THE COFFERDAM SHALL BE SIX FEET HIGH AND SIX FEET WIDE AT THE BASE, IN ACCORDANCE WITH THESE PLANS.
3. THE COFFERDAM WAS DESIGNED TO RESIST OVERTURNING AND SLIDING FORCES FROM A WATER SURFACE ELEVATION SIX AND ONE HALF FEET ABOVE THE STREAM BED.
4. COFFERDAM SHALL BE PLACED ON A STABLE BASE WITH A LEVEL CROSS SLOPE TO BE PREPARED BY THE CONTRACTOR. CONTRACTOR SHALL MAINTAIN STABLE BASE THROUGHOUT THE USE OF THE COFFERDAM.
5. THE CONTRACTOR SHALL ENSURE THAT THE COFFERDAM IS EXTENDED UPSTREAM AND DOWNSTREAM TO A DISTANCE THAT WILL ADEQUATELY DIRECT THE STREAM AROUND THE WORK AREA. THE CONTRACTOR SHALL ALSO ENSURE THAT THE COFFERDAM IS ADEQUATELY TIED INTO THE STREAMBANK ON THE UPSTREAM END.
6. PETRICCA CONSTRUCTION CO. DIRECTED DUBOIS & KING TO LIMIT THE COFFERDAM TO AN ELEVATION OF 6-FEET ABOVE THE BOTTOM OF THE STREAMBED.
7. THE 6-FOOT HEIGHT IS NOT ADEQUTE FOR A Q 2.33 STORM EVENT. TO RETAIN A Q 2.33 EVENT, THE HEIGHT OF THE COFFERDAM WOULD NEED TO BE APPROXIMATLY 10-FEET.
8. FOR SOME STORMS, THE DESIGNED COFFERDAM MAY BE OVERTOPPED.

CONSTRUCTION SEQUENCE

1. CONTRACTOR SHALL CONSTRUCT THE COFFERDAM IN THE CONFIGURATION SHOWN FOR COFFERDAM NO. 1.
2. COFFERDAM NO. 1 SHALL BE DEWATERED, PUMPING TO THE SEDIMENT BASIN. CONTRACTOR SHALL ADJUST CONCRETE BLOCKS AND WATER BARRIER TO ACHIEVE A SEALED AND WATERTIGHT COFFERDAM.
3. UPON DEWATERING THE COFFERDAM AND WITH APPROVAL OF THE ENGINEER, EXCAVATION BEHIND THE COFFERDAM SHALL BE ALLOWED. ABUTMENT NO. 1 SHALL BE CONSTRUCTED, BACKFILLED AND THE STREAMBANK SHALL BE STABILIZED IN ACCORDANCE WITH THE BRIDGE PLANS.
4. UPON PROPER STABILIZATION OF THE STREAMBANK, AND WITH THE APPROVAL OF THE ENGINEER, THE COFFERDAM SHALL BE RECONFIGURED AS SHOWN FOR THE COFFERDAM NO. 2.
5. COFFERDAM NO. 2 SHALL BE DEWATERED, PUMPING TO THE SEDIMENT BASIN. CONTRACTOR SHALL ADJUST CONCRETE BLOCKS AND WATER BARRIER TO ACHIEVE A SEALED AND WATERTIGHT COFFERDAM.
6. UPON DEWATERING THE COFFERDAM AND WITH APPROVAL OF THE ENGINEER, EXCAVATION BEHIND THE COFFERDAM SHALL BE ALLOWED. ABUTMENT NO. 2 SHALL BE CONSTRUCTED, BACKFILLED AND THE STREAMBANK SHALL BE STABILIZED IN ACCORDANCE WITH THE BRIDGE PLANS.
7. AFTER THE STABILIZATION OF THE STREAMBANK, AND WITH THE APPROVAL OF THE ENGINEER, THE COFFERDAM SHALL BE REMOVED. ALL FOREIGN MATERIAL ASSOCIATED WITH THE COFFERDAM SHALL BE REMOVED FROM THE STREAM BED.

PLOTTED 04/25/2006

NO.	DATE	REVISIONS	BY	CK'D

STATE OF VERMONT ERNEST P. DETRICCA NO. 9697 CIVIL LICENSED PROFESSIONAL ENGINEER

DuBois & King inc.
engineering planning management development

PETRICCA INDUSTRIES
SUNDERLAND BRIDGE REPLACEMENT
COFFERDAM
BRF 0114(2)
DETAIL SHEET

DRAWN BY	DATE
APG	APR. 2006
CHECKED BY	PROJ. NO.
EPD	119501
PROJ. ENG.	DRAW. NO.
APG	---

SHEET 2 OF 2

COFFERDAM.dgn 04/25/2006 10:48:20 AM