

TEMPORARY DIVERSION PIPES

1. INSTALL MOT DEVICES IN ACCORDANCE WITH THE DETOUR PLAN.
2. INSTALL SILT FENCE (ITEM 905xxx) EXCEPT AT THE CONNECTIONS TO SANDBAG DIKES OR SHEETPILES (ITEM 909005).
3. STABILIZE THE PROPOSED DISCHARGE AREA OF EACH PIPE WITH A 5' X 5' AREA OF R-x RIPRAP (ITEM 909005) (the outfall riprap size should match a riprap size already in the contract when possible).
4. INSTALL x'-xx" TEMPORARY DIVERSION PIPE(S) (ITEM 909005) AT THE LOCATION(S) SHOWN. PLACE THE UPSTREAM END OF THE PIPE TO MATCH OR 6-INCHES TO 12-INCHES ABOVE EXISTING STREAM BOTTOM USING PIPE WITH WATER-TIGHT JOINTS. SECURE THE PIPE TO MINIMIZE MOVEMENT UNDER USE TO PREVENT LEAKAGE INTO THE WORK AREA. CONSTRUCT THE SANDBAG DIKES OR SHEETPILES, AT THE LOCATIONS SHOWN, WITH TOP EL. OF xxx.xx OR 6 INCHES BELOW TOP OF STREAM BANK (WHICHEVER IS LOWER) WITH A x' X x' WEIR OPENING UPSTREAM. CONSTRUCT UPSTREAM SANDBAG DIKES OR SHEETPILES BEFORE THE DOWNSTREAM SANDBAG DIKES OR SHEETPILES. SET THE ELEVATION OF THE DOWNSTREAM SANDBAG DIKES LESS THAN OR EQUAL TO THE LOWEST ELEVATION OF THE UPSTREAM SANDBAG DIKES OR SHEETPILES. CONNECT SILT FENCE TO SANDBAG DIKES OR SHEETPILES TO COMPLETELY ENCLOSE THE WORK AREA. USE TEMPORARY PIPE(S) TO DIVERT THE STREAM BASE FLOW THROUGH THE ENCLOSED WORK AREA. WHEN THE FLOW IS HIGHER THAN DIVERSION CAPACITY DURING RAINFALL EVENTS, THE STREAM FLOW IS ALLOWED TO FLOW OVER THE SANDBAG DIKES OR SHEETPILES. THEREFORE, KEEP THE ENCLOSED AREA CLEAR OF DEBRIS AND OBSTRUCTIONS AT THE END OF EACH WORKDAY AND SECURE TEMPORARY PIPE(S). MAINTAIN A DIVERSION FLOW CAPACITY THROUGH THE PIPE(S) OF AT LEAST xxx.xx C.F.S. (the weir should be designed to accommodate roughly twice the diversion flow as specified in table 104-4 of the bridge design manual, without overtopping the top of the sandbag dike/sheetpile. the temporary diversion pipe(s) size and weir elevation should be such that the temporary diversion pipe(s) passes the diversion flow. in no case should the sandbag dike/sheetpile top elevation be higher than 6 inches below the top of the streambank.)
5. INSTALL SUMP PIT (ITEM 906003) AND PORTABLE SEDIMENT TANK (ITEM 906001) or DEWATERING BAG (ITEM 906002) AS A SEDIMENT TRAPPING DEVICE. DEWATER THE WORK AREA IN ACCORDANCE WITH SECTION 902 OF THE STANDARD SPECIFICATIONS. DISCHARGE CLEAN EFFLUENT FROM THE APPROVED SEDIMENT TRAPPING DEVICE AT THE STABILIZED OUTLET OF THE TEMPORARY DRAINAGE PIPE(S) OR ON OTHER STABLE OUTLET AS APPROVED BY THE ENGINEER. (additional notes will be necessary to address any relocation of temporary diversion pipes.)
6. add other steps needed to construct bridge or culvert.
7. REMOVE TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES AFTER VEGETATION HAS STABILIZED ALL DISTURBED AREAS IN ACCORDANCE WITH THESE PLANS AND AS DIRECTED BY THE ENGINEER.
8. REMOVE ALL MOT DEVICES AND REOPEN THE ROADWAY. (in cases where MOT is not needed to remove temporary E&S, notes 7 and 8 may be combined.)

TEMPORARY DIVERSION PUMPS

1. INSTALL MOT DEVICES IN ACCORDANCE WITH THE DETOUR PLAN.
2. INSTALL SILT FENCE (ITEM 905xxx) EXCEPT AT THE CONNECTIONS TO SANDBAG DIKES OR SHEETPILES (ITEM 909005).
3. INSTALL STILLING WELL (ITEM 909005) JUST UPSTREAM OF THE PROPOSED UPSTREAM SANDBAG DIKE OR SHEET PILES. PLACE R-4 OR LARGER RIPRAP (ITEM 909005) 5 FEET IN DIRECTION OF FLOW BY 5 FEET WIDE AT THE PROPOSED DISCHARGE AREA.
4. CONSTRUCT THE SANDBAG DIKES OR SHEETPILES AT THE LOCATIONS SHOWN WITH TOP EL. OF xxx.xx OR 6 INCHES BELOW TOP OF STREAM BANK (WHICHEVER IS LOWER) WITH A x' X x' WEIR OPENING UPSTREAM. SET THE ELEVATION OF THE DOWNSTREAM SANDBAG DIKES LESS THAN OR EQUAL TO THE LOWEST ELEVATION OF THE UPSTREAM SANDBAG DIKES OR SHEETPILES. CONNECT SILT FENCE TO SANDBAG DIKES OR SHEETPILES TO COMPLETELY ENCLOSE THE WORK AREA. USE PUMP (ITEM 909005) TO DIVERT THE STREAM BASE FLOW AROUND THE ENCLOSED WORK AREA. WHEN THE FLOW IS HIGHER THAN PUMP CAPACITY DURING RAINFALL EVENTS, THE STREAM FLOW IS ALLOWED TO FLOW OVER THE SANDBAG DIKES OR SHEETPILES. THEREFORE, KEEP THE ENCLOSED AREA CLEAR OF DEBRIS AND OBSTRUCTIONS AT THE END OF EACH WORKDAY. MAINTAIN A DIVERSION FLOW CAPACITY THROUGH THE PUMPS OF AT LEAST xxx.xx C.F.S. (the weir should be designed to accommodate roughly twice the diversion flow, as specified in table 104-4 of the bridge design manual, without overtopping the top of sandbag dike/sheetpile. the weir elevation should be set such that the pumps pass the diversion flow without overtopping the weir. in no case should the sandbag dike/sheetpile top elevation be higher than 6 inches below the top of stream bank. refer to section 104.5.4 in the bridge design manual for further guidance on sizing of the pumps.)
5. INSTALL SUMP PIT (ITEM 906003) AND PORTABLE SEDIMENT TANK (ITEM 906001) or DEWATERING BAG (ITEM 906002) AS A SEDIMENT TRAPPING DEVICE. DEWATER THE WORK AREA IN ACCORDANCE WITH SECTION 902 OF THE STANDARD SPECIFICATIONS. DISCHARGE CLEAN EFFLUENT FROM THE APPROVED SEDIMENT TRAPPING DEVICE AT THE STABILIZED OUTLET OF THE PUMPING OPERATION OR ON OTHER STABLE OUTLET AS APPROVED BY THE ENGINEER.
6. add other steps needed to construct bridge or culvert.
7. REMOVE TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES AFTER VEGETATION HAS STABILIZED ALL DISTURBED AREAS IN ACCORDANCE WITH THESE PLANS AND AS DIRECTED BY THE ENGINEER.
8. REMOVE ALL MOT DEVICES AND REOPEN THE ROADWAY. (in cases where MOT is not needed to remove temporary E&S, notes 7 and 8 may be combined.)

