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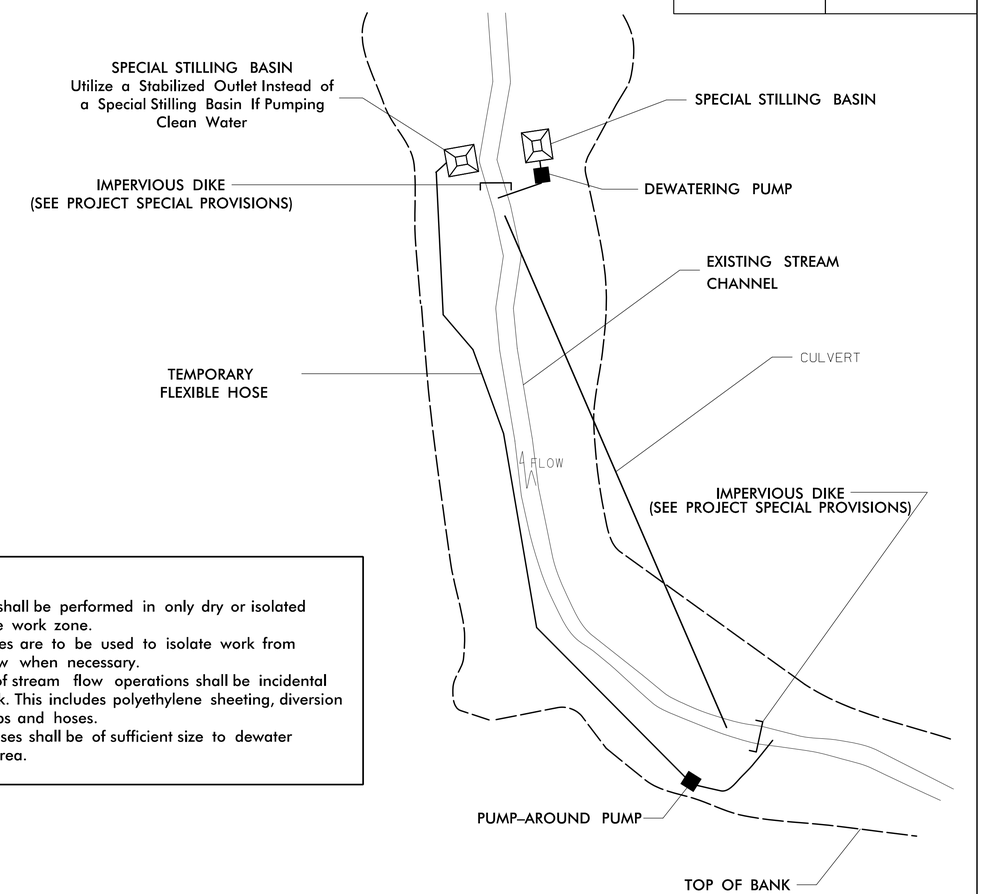
EXAMPLE OF PUMP–AROUND OPERATION AND PROJECT PHASING NOTES

PROJECT REFERENCE NO.	SHEET NO.
51214.01AM	EC-6
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

PROJECT PHASING NOTES:

1. Install Impervious Dike #1, directing flow through existing 30”RCP.
2. Install Junction Box #0401 and 36”Pipe with headwall from #0400 to #0401 via open cut installation.
3. Install Impervious Dike #2 and begin pump around operation through existing 30”RCP.
4. De-water work site as needed into special stilling basin(s)
5. Install 36”Pipe from #0401 to #0403. Install Junction Box #0403 with Headwall and 48”RCP Extension.
6. Install 54”Welded Steel Pipe via trenchless installation from #0403 to #0404. Install Junction Box #0404.
7. Install 54”Welded Steel Pipe from #0405 to #0410 via trenchless installation.
8. Install junction box #0405 and 54”Pipe from #0404 to #0405 via open cut installation.
9. Install Junction Box #0410, removing existing 48”CMP and pumping around as necessary.
10. Remove Impervious Dikes #1 and #2, directing flow through new pipe system. Stop pump around operation.
11. Close I-26 off-ramp to traffic. (See Sheet TMP-2)
12. Remove existing catch basin and plug and fill existing drainage pipes with flowable fill as shown.
13. Install catch basin #0406 and 15”Pipe from #0405 to #0406.
14. Open I-26 off-ramp to traffic.



NOTES:
1) All excavation shall be performed in only dry or isolated areas of the work zone.
2) Impervious dikes are to be used to isolate work from stream flow when necessary.
3) Maintenance of stream flow operations shall be incidental to the work. This includes polyethylene sheeting, diversion pipes, pumps and hoses.
4) Pumps and hoses shall be of sufficient size to dewater the work area.

SEQUENCE OF CONSTRUCTION FOR TYPICAL WORK AREA

1. INSTALL SPECIAL STILLING BASIN(S).
2. INSTALL UPSTREAM PUMP AND TEMPORARY FLEXIBLE HOSE.
3. PLACE UPSTREAM IMPERVIOUS DIKE AND BEGIN PUMPING OPERATIONS FOR STREAM DIVERSION.
4. PLACE DOWNSTREAM IMPERVIOUS DIKE AND PUMPING APPARATUS. DEWATER ENTRAPPED AREA. AREA TO BE DEWATERED SHALL BE EQUAL TO ONE DAY’S WORK.
5. INSTALL CULVERT(S) IN ACCORDANCE WITH THE PLANS.
6. EXCAVATE ANY ACCUMULATED SILT AND DEWATER BEFORE REMOVAL OF IMPERVIOUS DIKES. REMOVE IMPERVIOUS DIKES, PUMPS, AND TEMPORARY FLEXIBLE HOSE. (DOWNSTREAM IMPERVIOUS DIKES FIRST).
7. REMOVE SPECIAL STILLING BASIN(S) AND BACKFILL. STABILIZE DISTURBED AREA WITH SEED AND MULCH.