
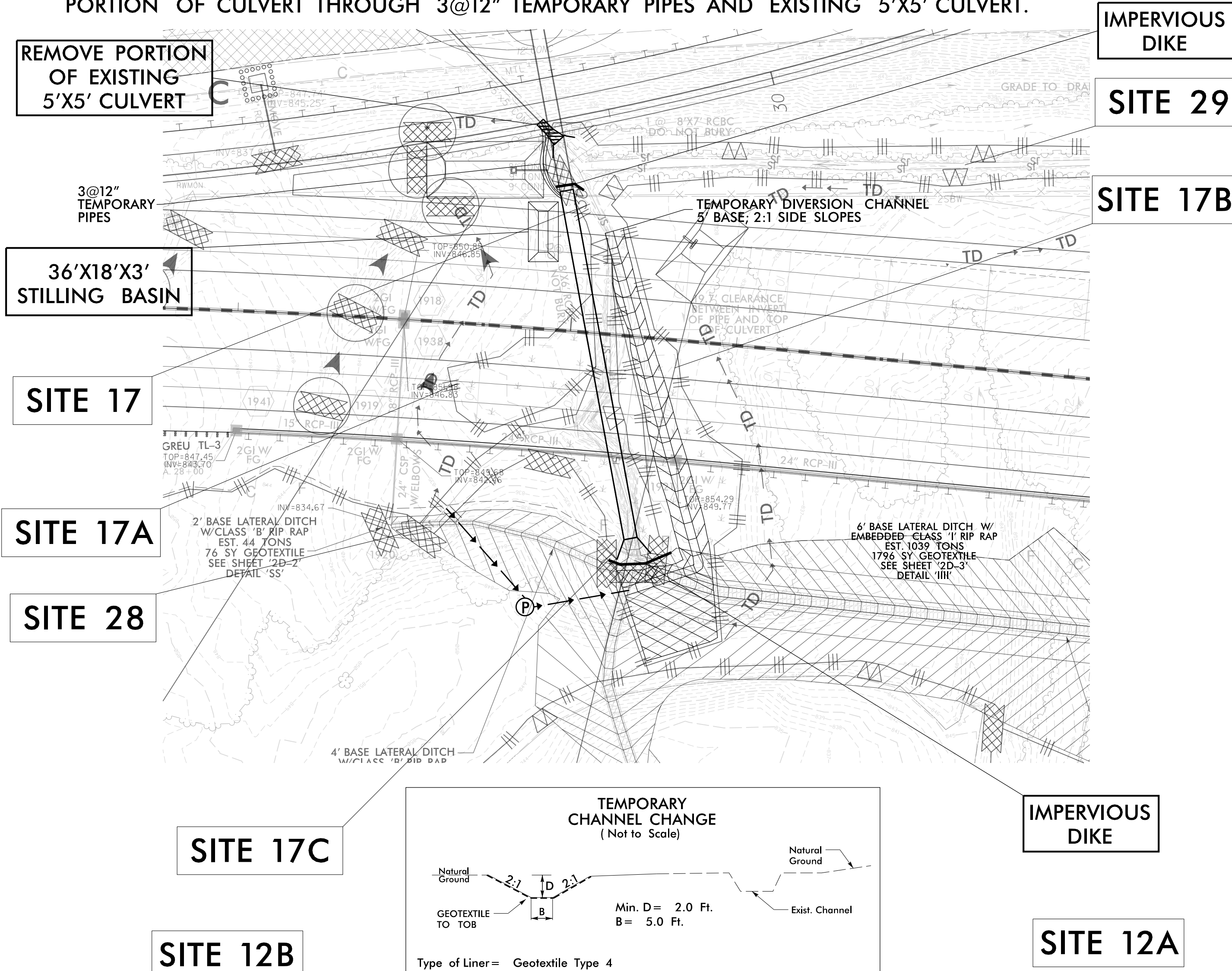


# CULVERT CONSTRUCTION SEQUENCE STA. 30+13 -Y15REV-

PROJECT REFERENCE NO. U-2579AB	SHEET NO. EC-19A/CONST.19
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
 HDR Engineering, Inc. of the Carolinas 555 Fayetteville St, Suite 900 Raleigh, N.C. 27601 N.C.B.E.L.S. License Number: F-0116	

## PHASE 1

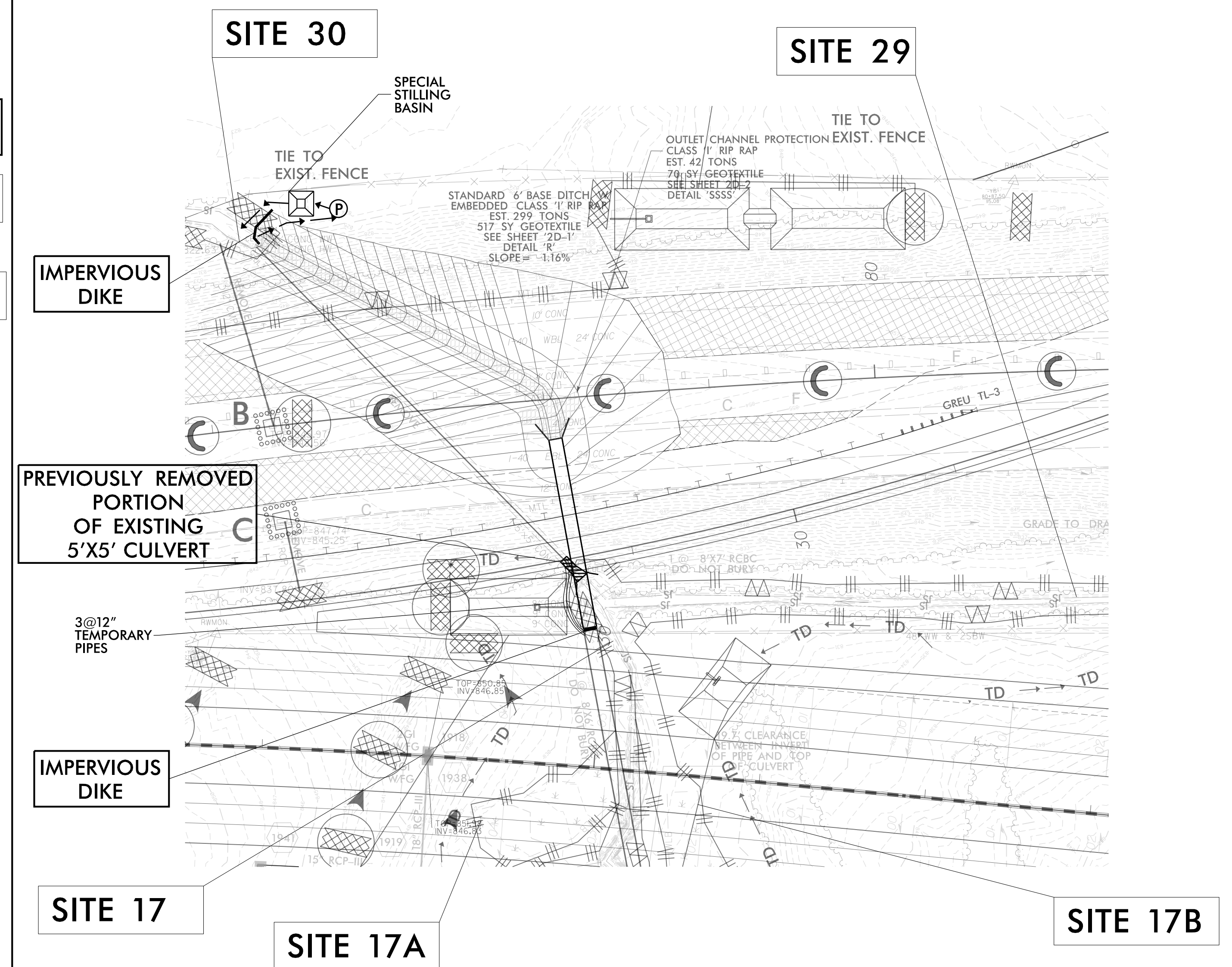
1. CONSTRUCT 36'X18'X3' STILLING BASIN.
2. CONSTRUCT 5' BASE TEMPORARY CHANNEL CHANGE WITH LINER. SECURE INLET AND OUTLET OF CHANNEL.
3. UTILIZE STILLING BASIN, TEMPORARY DIKES AND BYPASS PUMPS TO TIE TEMPORARY CHANNEL CHANGE INTO STREAM.
4. AROUND THE WORK AREA INTO THE TEMPORARY CHANNEL CHANGE.
5. CONSTRUCT 212'-4" OF THE CULVERT USING STILLING BASIN AND PUMP TO DE-WATER THE WORK ZONE.
6. INSTALL BLOCKOUT AND 3@12" TEMPORARY PIPES AT OUTLET END OF NEWLY INSTALLED PORTION OF CULVERT.
7. REMOVE PORTION OF EXISTING 5'X5' CULVERT USING TEMPORARY BYPASS PUMPING OPERATION AND TIE 3 @ 12" TEMPORARY PIPES TO EXISTING 5'X5' CULVERT.
8. CONSTRUCT AND STABILIZE 2' BASE LATERAL DITCH, 4' BASE LATERAL DITCH, AND 6' BASE LATERAL DITCH TYING TO INLET OF CULVERT.
9. REMOVE STILLING BASIN AND IMPERVIOUS DIKES TO ESTABLISH FLOW THROUGH NEWLY CONSTRUCTED PORTION OF CULVERT THROUGH 3@12" TEMPORARY PIPES AND EXISTING 5'X5' CULVERT.



NOTE: CONTRACTOR TO USE BERMS AS NEEDED TO MAINTAIN A MINIMUM 2' DEPTH OF THE TEMPORARY CHANNEL CHANGE.

## PHASE 2

1. CONSTRUCT THE REMAINING PORTION OF THE CULVERT USING SPECIAL STILLING BASIN(S) AND PUMP TO DE-WATER THE WORK ZONE.
2. UTILIZE TEMPORARY DIKE(S) AND BYPASS PUMP(S) AS NEEDED TO CONSTRUCT OUTLET CHANNEL IMPROVEMENTS.
3. REMOVE 3@12" TEMPORARY PIPES AND TEMPORARY DIKE(S) TO ESTABLISH FLOW THROUGH NEWLY CONSTRUCTED CULVERT.
4. REMOVE REMAINING PORTION OF EXISTING 5'X5' CULVERT.



NOTE: 3@12" TEMPORARY PIPES ARE INTENDED TO PASS NORMAL FLOW ONLY. CONTRACTOR TO STABILIZE WORK AREA IN ADVANCE OF STORM EVENTS.