5/14/99

REVISIONS

CULVERT CONSTRUCTION SEQUENCE
STA. 15+13.11 –Y1– (PEACE STREET)

PROJECT REFERENCE NO.	SHEET NO.
B-5121 / B-5317	EC-9/CONST.8

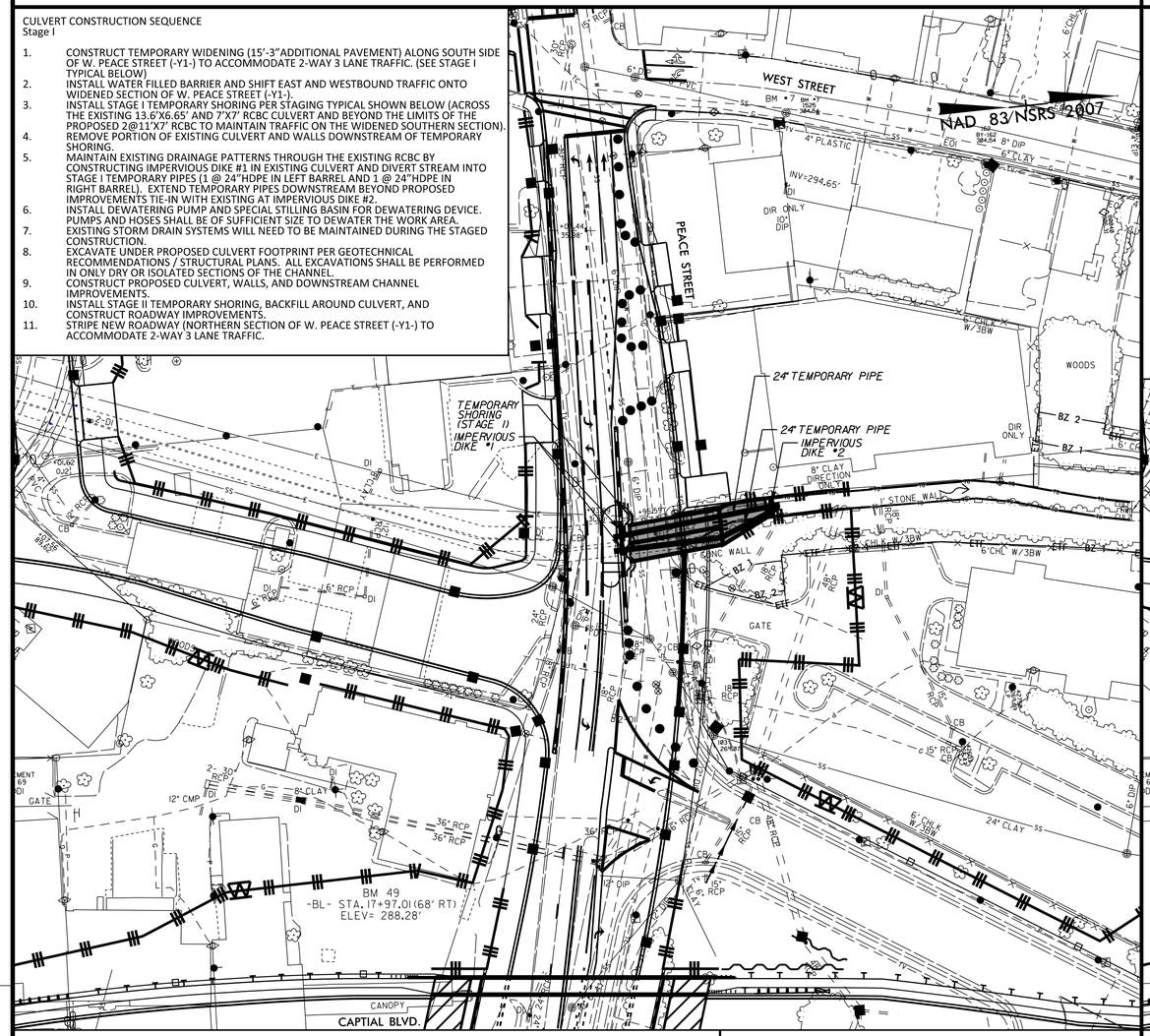
GRAPHIC SCALE

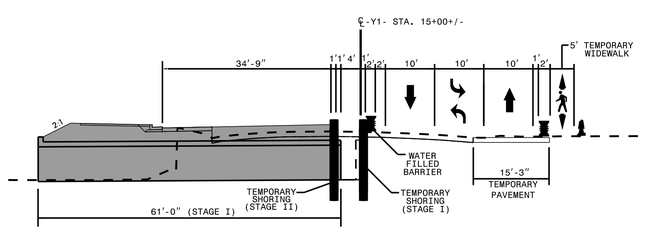
50 25 0 50 100

STAGE I

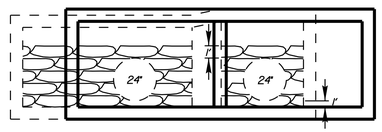
CULVERT CONSTRUCTION SEQUENCE
Stage I

1. CONSTRUCT TEMPORARY WIDENING (15'-3"ADDITIONAL PAVEMENT) ALONG SOUTH SIDE OF W. PEACE STREET (-Y1-) TO ACCOMMODATE 2-WAY 3 LANE TRAFFIC. (SEE STAGE I TYPICAL BELOW)
2. INSTALL WATER FILLED BARRIER AND SHIFT EAST AND WESTBOUND TRAFFIC ONTO WIDENED SECTION OF W. PEACE STREET (-Y1-).
3. INSTALL STAGE I TEMPORARY SHORING PER STAGING TYPICAL SHOWN BELOW (ACROSS THE EXISTING 13.6'X6.65' AND 7'X7' RCBC CULVERT AND BEYOND THE LIMITS OF THE PROPOSED 2@11'X7' RCBC TO MAINTAIN TRAFFIC ON THE WIDENED SOUTHERN SECTION).
4. REMOVE PORTION OF EXISTING CULVERT AND WALLS DOWNSTREAM OF TEMPORARY SHORING.
5. MAINTAIN EXISTING DRAINAGE PATTERNS THROUGH THE EXISTING RCBC BY CONSTRUCTING IMPERVIOUS DIKE #1 IN EXISTING CULVERT AND DIVERT STREAM INTO STAGE I TEMPORARY PIPES (1 @ 24"HDPE IN LEFT BARREL AND 1 @ 24"HDPE IN RIGHT BARREL). EXTEND TEMPORARY PIPES DOWNSTREAM BEYOND PROPOSED IMPROVEMENTS TIE-IN WITH EXISTING AT IMPERVIOUS DIKE #2.
6. INSTALL DEWATERING PUMP AND SPECIAL STILLING BASIN FOR DEWATERING DEVICE. PUMPS AND HOSES SHALL BE OF SUFFICIENT SIZE TO DEWATER THE WORK AREA.
7. EXISTING STORM DRAIN SYSTEMS WILL NEED TO BE MAINTAINED DURING THE STAGED CONSTRUCTION.
8. EXCAVATE UNDER PROPOSED CULVERT FOOTPRINT PER GEOTECHNICAL RECOMMENDATIONS / STRUCTURAL PLANS. ALL EXCAVATIONS SHALL BE PERFORMED IN ONLY DRY OR ISOLATED SECTIONS OF THE CHANNEL.
9. CONSTRUCT PROPOSED CULVERT, WALLS, AND DOWNSTREAM CHANNEL IMPROVEMENTS.
10. INSTALL STAGE II TEMPORARY SHORING, BACKFILL AROUND CULVERT, AND CONSTRUCT ROADWAY IMPROVEMENTS.
11. STRIPE NEW ROADWAY (NORTHERN SECTION OF W. PEACE STREET (-Y1-) TO ACCOMMODATE 2-WAY 3 LANE TRAFFIC.





STAGE I – TYPICAL
LOOKING EAST ON PEACE STREET (NOT TO SCALE)



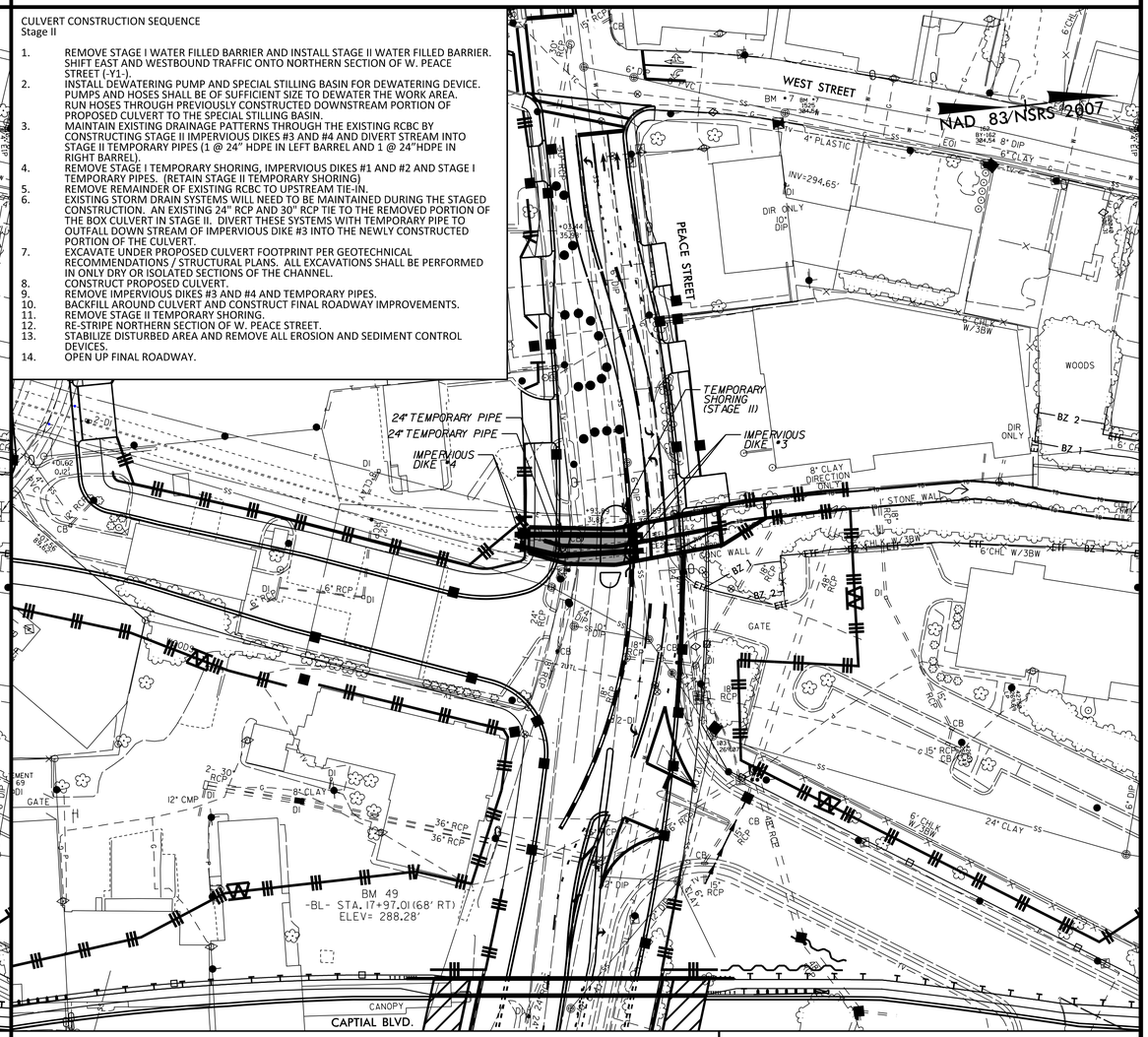
IMPERVIOUS DIKES BLOCKING EXISTING CULVERT WITH 2@24" TEMPORARY BYPASS PIPES CENTERED BETWEEN EXISTING AND PROPOSED CULVERTS

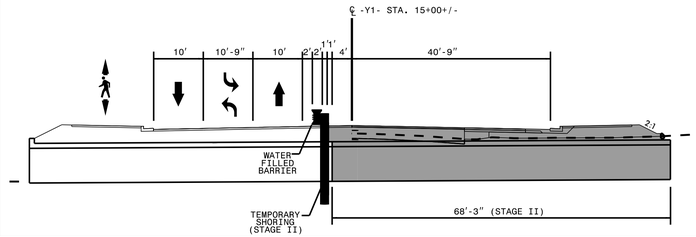
STAGE I
IMPERVIOUS DIKE DETAIL
LEFT TO RIGHT,LOOKING DOWNSTREAM (NOT TO SCALE)

STAGE II

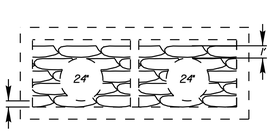
CULVERT CONSTRUCTION SEQUENCE
Stage II

1. REMOVE STAGE I WATER FILLED BARRIER AND INSTALL STAGE II WATER FILLED BARRIER. SHIFT EAST AND WESTBOUND TRAFFIC ONTO NORTHERN SECTION OF W. PEACE STREET (-Y1-).
2. INSTALL DEWATERING PUMP AND SPECIAL STILLING BASIN FOR DEWATERING DEVICE. PUMPS AND HOSES SHALL BE OF SUFFICIENT SIZE TO DEWATER THE WORK AREA. RUN HOSES THROUGH PREVIOUSLY CONSTRUCTED DOWNSTREAM PORTION OF PROPOSED CULVERT TO THE SPECIAL STILLING BASIN.
3. MAINTAIN EXISTING DRAINAGE PATTERNS THROUGH THE EXISTING RCBC BY CONSTRUCTING STAGE II IMPERVIOUS DIKES #3 AND #4 AND DIVERT STREAM INTO STAGE II TEMPORARY PIPES (1 @ 24" HDPE IN LEFT BARREL AND 1 @ 24"HDPE IN RIGHT BARREL).
4. REMOVE STAGE I TEMPORARY SHORING, IMPERVIOUS DIKES #1 AND #2 AND STAGE I TEMPORARY PIPES. (RETAIN STAGE II TEMPORARY SHORING)
5. REMOVE REMAINDER OF EXISTING RCBC TO UPSTREAM TIE-IN.
6. EXISTING STORM DRAIN SYSTEMS WILL NEED TO BE MAINTAINED DURING THE STAGED CONSTRUCTION. AN EXISTING 24" RCP AND 30" RCP TIE TO THE REMOVED PORTION OF THE BOX CULVERT IN STAGE II. DIVERT THESE SYSTEMS WITH TEMPORARY PIPE TO OUTFALL DOWN STREAM OF IMPERVIOUS DIKE #3 INTO THE NEWLY CONSTRUCTED PORTION OF THE CULVERT.
7. EXCAVATE UNDER PROPOSED CULVERT FOOTPRINT PER GEOTECHNICAL RECOMMENDATIONS / STRUCTURAL PLANS. ALL EXCAVATIONS SHALL BE PERFORMED IN ONLY DRY OR ISOLATED SECTIONS OF THE CHANNEL.
8. CONSTRUCT PROPOSED CULVERT.
9. REMOVE IMPERVIOUS DIKES #3 AND #4 AND TEMPORARY PIPES.
10. BACKFILL AROUND CULVERT AND CONSTRUCT FINAL ROADWAY IMPROVEMENTS.
11. REMOVE STAGE II TEMPORARY SHORING.
12. RE-STRIPE NORTHERN SECTION OF W. PEACE STREET.
13. STABILIZE DISTURBED AREA AND REMOVE ALL EROSION AND SEDIMENT CONTROL DEVICES.
14. OPEN UP FINAL ROADWAY.





STAGE II – TYPICAL
LOOKING EAST ON PEACE STREET (NOT TO SCALE)



IMPERVIOUS DIKES BLOCKING EXISTING CULVERT WITH 2@24" TEMPORARY BYPASS PIPES CENTERED BETWEEN EXISTING AND PROPOSED CULVERTS

STAGE II
IMPERVIOUS DIKE DETAIL
LEFT TO RIGHT,LOOKING DOWNSTREAM (NOT TO SCALE)