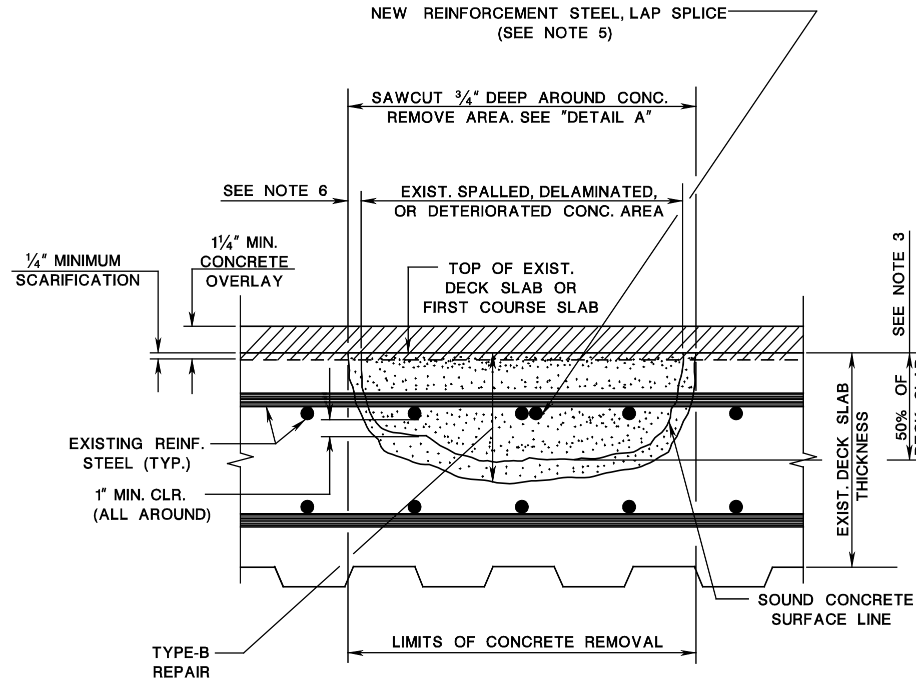
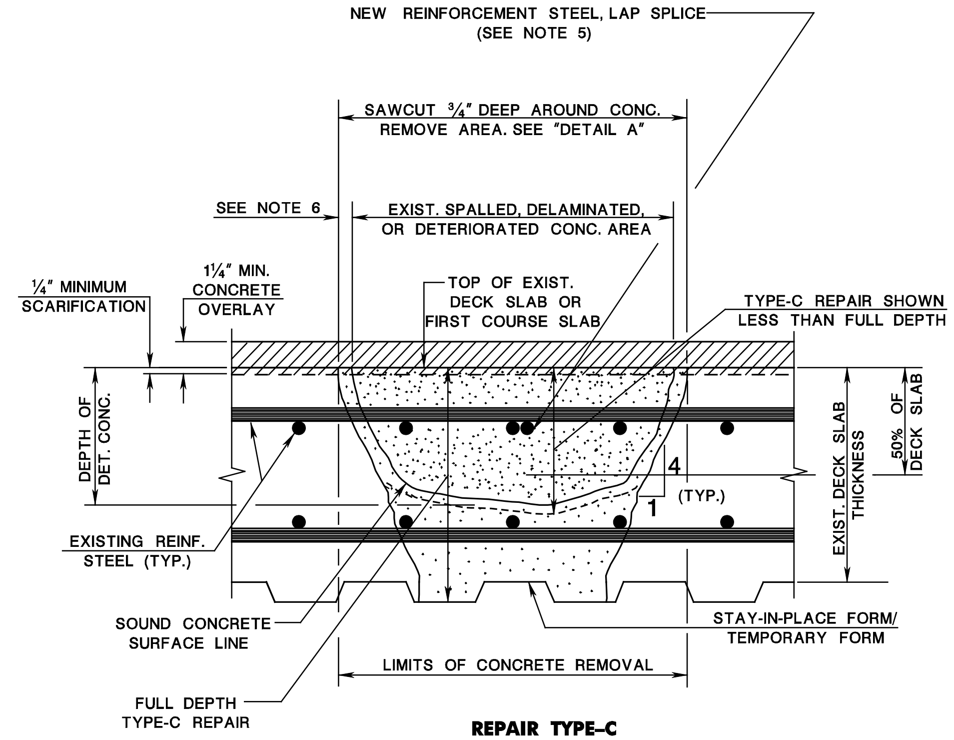


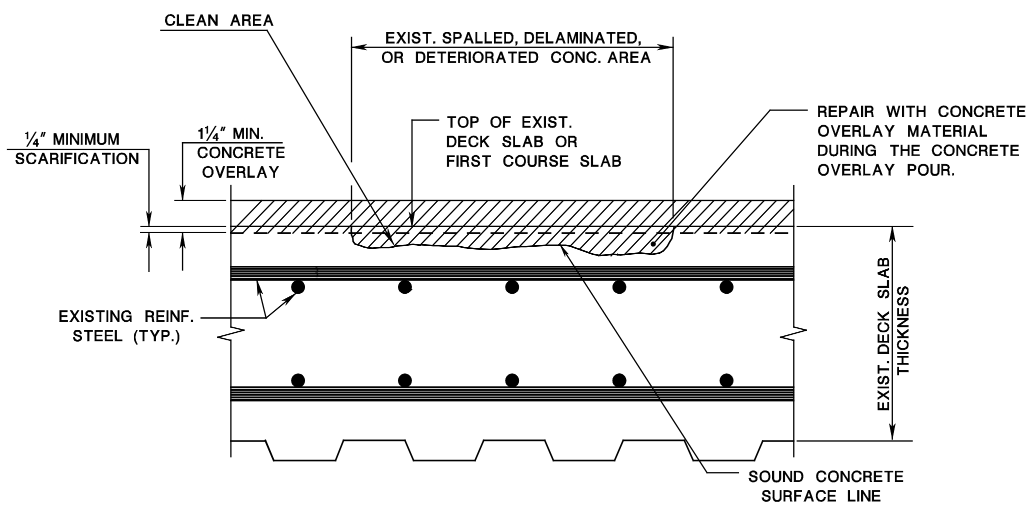
REPAIR TYPE–B

(SEE NOTE 2)



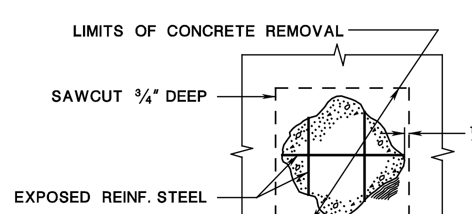
REPAIR TYPE–C

(SEE NOTE 3)



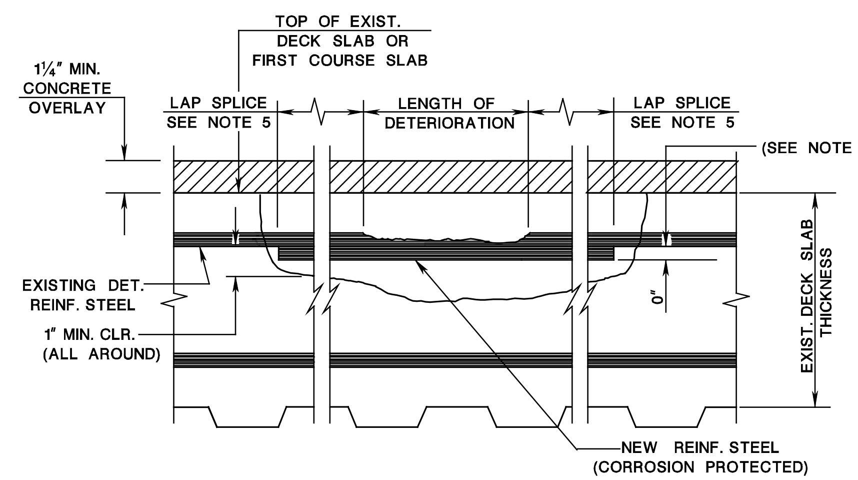
TYPICAL REPAIR DETAIL FOR MINOR SPALLED AREAS

(SEE NOTE 1)

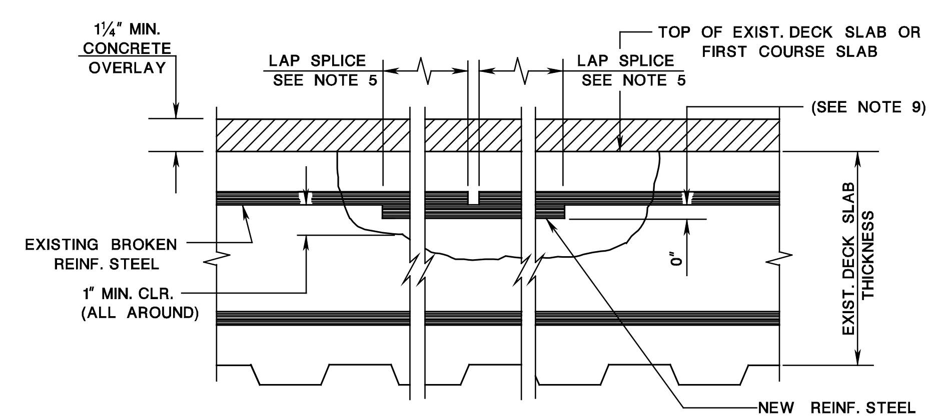


LIMITS OF REPAIR AREA (PLAN VIEW)

(SEE NOTE 7)



DETERIORATED REINFORCEMENT STEEL REPAIR



BROKEN REINFORCEMENT STEEL REPAIR

NOTES:

1. CLEAN SPALLED, DELAMINATED, AND DETERIORATED CONCRETE AREAS AND REPAIRED WITH THE CONCRETE OVERLAY TYPE USED FOR THE OVERLAY PLACEMENT, OR CLASS A CONCRETE MAY BE USED.
2. REPAIR TYPE-B:
   REMOVE ALL DETERIORATED AND DELAMINATED CONCRETE TO A MINIMUM DEPTH OF 1" BELOW THE BOTTOM OF THE TOP LAYER OF EXISTING REINFORCEMENT STEEL TO A MAXIMUM OF 50% OF THE THICKNESS OF THE EXISTING CONCRETE DECK.
3. REPAIR TYPE-C:
   REMOVE ALL DETERIORATED AND DELAMINATED CONCRETE , AND IF THE SOUND CONCRETE SURFACE IS LOCATED AT A DEPTH GREATER THAN 50% OF THE DECK THICKNESS WHEN MEASURED FROM THE TOP OF THE DECK, PERFORM TYPE-C REPAIR UPON APPROVAL OF THE RE, AS SHOWN IN THE DETAIL "REPAIR TYPE-C". IF THE BOTTOM MAT OF THE DECK REINFORCEMENT STEEL IS EXPOSED, REPLACE THE DECK SLAB TO FULL DEPTH IN THIS AREA OF EXPOSURE.
4. ENSURE THAT THE TOP SURFACE OF THE CONCRETE FOR TYPE-B AND TYPE-C REPAIRS IS EVEN WITH THE ADJACENT TOP OF EXISTING DECK SLAB AND TO MAINTAIN THE EXISTING GRADES AND CROSS SLOPES.
5. PLACE NEW CORROSION PROTECTED REINFORCEMENT STEEL TO SUPPLEMENT AN EXISTING REINFORCEMENT STEEL WHEN AN EXISTING ONE HAS A SECTION LOSS OF 25% OR MORE OF THE ORIGINAL CROSS SECTION, AS DETERMINED BY THE RE, OR THE EXISTING REINFORCEMENT STEEL IS BROKEN. THE NEW ONE TO EXTEND 30 BAR DIAMETERS IN EACH DIRECTION FROM WHERE THE SECTION LOSS OR BREAK ENDS. MODIFY THE LIMITS OF THE REPAIR AREA TO MEET THE REINFORCEMENT STEEL SPLICE LAP REQUIREMENTS.
6. REMOVE FOR REPAIR TYPE-B AND TYPE-C SOUND CONCRETE TO A DEPTH OF ¼" MINIMUM TO 1" MAXIMUM IN ALL DIRECTIONS, EXCEPT THAT THE MAXIMUM LIMIT MAY BE MODIFIED UPON APPROVAL OF THE RE.
7. UPON APPROVAL OF THE RE, MODIFY THE LIMITS OF CONCRETE REMOVAL AS SHOWN IN THE "LIMITS OF REPAIR AREA (PLAN VIEW)" WHEN SUPPLEMENTARY REINFORCEMENT STEEL IS REQUIRED.
8. DECK REINFORCEMENT STEEL DETAILS SHOWN ARE GENERAL. ACTUAL REINFORCEMENT STEEL SPACINGS AND LOCATIONS WILL VARY FROM BRIDGE TO BRIDGE.
9. PLACE NEW REINFORCEMENT STEEL AT THE SAME LEVEL ALONGSIDE THE EXISTING DETERIORATED OR BROKEN REINFORCEMENT STEEL.
10. BEFORE PLACEMENT OF THE OVERLAY, REMOVE ALL PREVIOUSLY PATCHED AREAS COMPLETELY.

BRIDGE DECK REHABILITATION WITH CONCRETE OVERLAY

N.T.S.

BCD-551-1

NEW JERSEY DEPARTMENT OF TRANSPORTATION
BUREAU OF STRUCTURAL ENGINEERING

BRIDGE CONSTRUCTION DETAILS

BCD-551-1.1