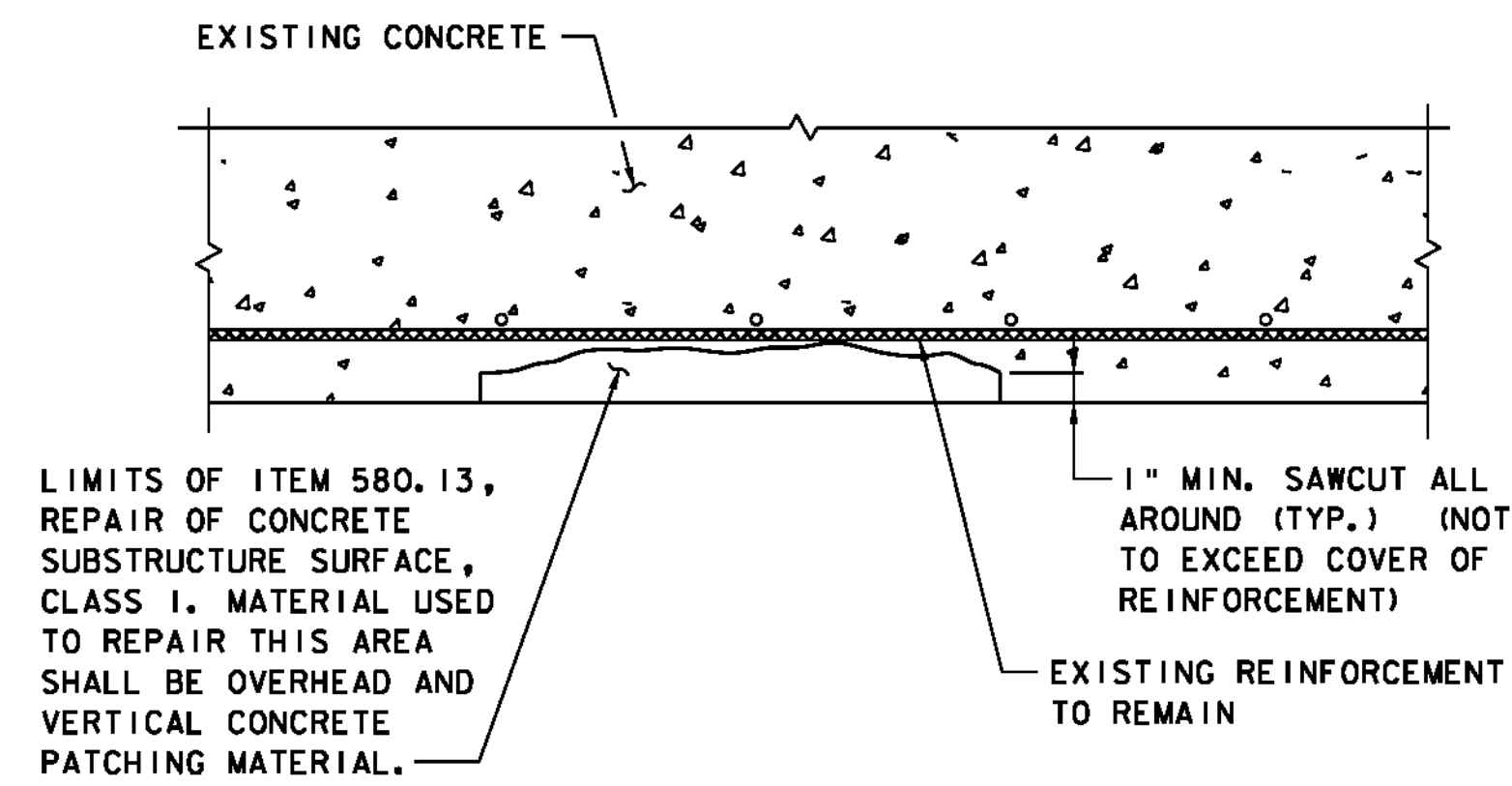


DEPTH OF REPAIR LESS THAN 4"

(CLASS I REPAIR)

REPAIR DETAILS FOR UNREINFORCED CONCRETE

NOT TO SCALE

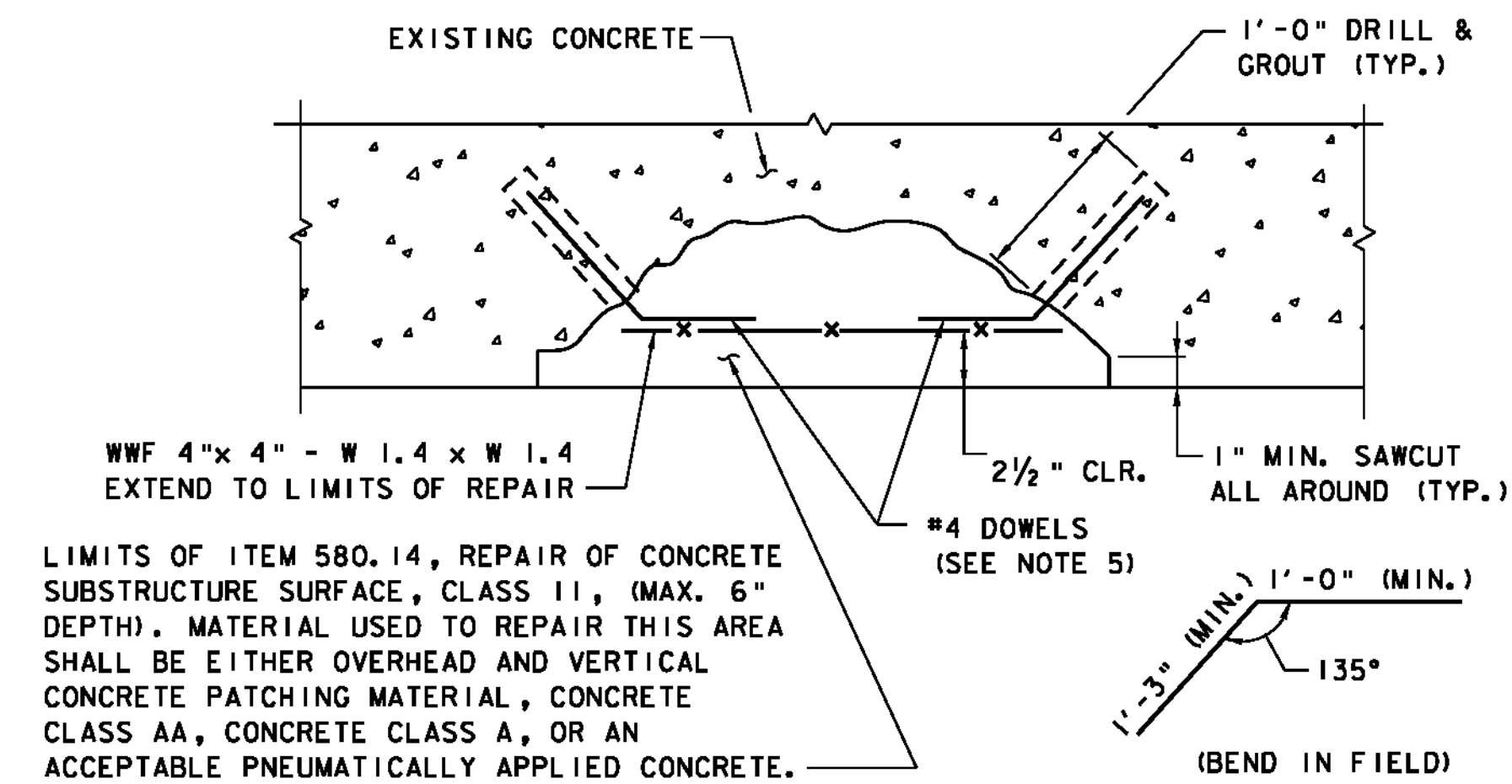


DEPTH OF REPAIR LESS THAN 4"

(CLASS I REPAIR)

REPAIR DETAILS FOR REINFORCED CONCRETE

NOT TO SCALE

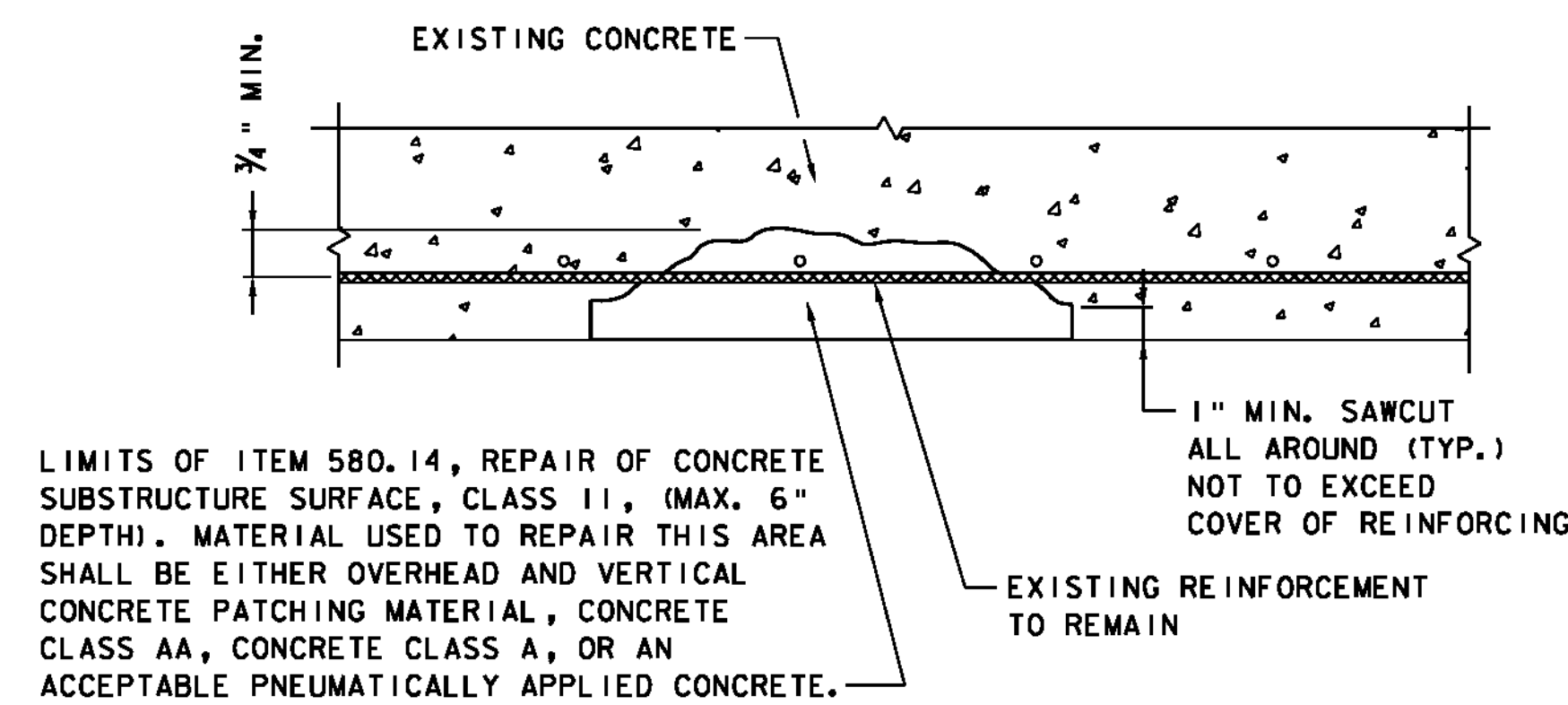


DEPTH OF REPAIR 4" TO 6"

(CLASS II REPAIR)

REPAIR DETAILS FOR UNREINFORCED CONCRETE

NOT TO SCALE



DEPTH OF REPAIR 4" TO 6"

(CLASS II REPAIR)

REPAIR DETAILS FOR REINFORCED CONCRETE

NOT TO SCALE

CONCRETE REPAIR NOTES:

1. ABUTMENT CONCRETE REPAIRS SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 580. THE REPAIR AREAS INDICATED ARE SCHEMATIC ONLY AND ARE NOT INTENDED TO SHOW THE ACTUAL LIMITS OF NEEDED REPAIR.
2. A COOPERATIVE INSPECTION BY THE ENGINEER AND THE CONTRACTOR WILL BE MADE OF ALL SUBSTRUCTURE AREAS AT THE TIME OF CONSTRUCTION. AREAS OF CONCRETE FOUND TO HAVE SPALLED, DELAMINATED OR TO BE OTHERWISE UNSOUND, AS DETERMINED BY THE ENGINEER, WILL BE REPAIRED. THE COST OF THE INSPECTION SHALL BE INCIDENTAL TO ALL OTHER ITEMS IN THE CONTRACT.
3. AN ESTIMATED QUANTITY OF ITEMS 580.13, 580.14, AND 580.15, REPAIR OF CONCRETE SUBSTRUCTURE SURFACE, CLASS I, II, AND III HAVE BEEN INCLUDED IN THE CONTRACT FOR POTENTIAL ABUTMENT REPAIRS.
4. REMOVE AND DISPOSE OF ALL DELAMINATED, SPALLED OR UNSOUND CONCRETE WITHIN THE REPAIR AREAS.
5. CLEAN AND PREPARE EXISTING SURFACE FOR BONDING TO PATCHING MATERIAL.
6. DOWELS SHALL BE SPACED AND ORIENTED AS DIRECTED BY THE ENGINEER.
7. REINFORCEMENT FOR CONCRETE REPAIRS SHALL BE GENERALLY CONFIGURED AS SHOWN ON THIS SHEET, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
8. WELDED WIRE FABRIC SHALL CONFORM TO THE REQUIREMENTS OF SUBSECTION 713.05.
9. THE ENGINEER SHALL ORDER REPLACEMENT OF ANY EXISTING SUBSTRUCTURE REINFORCING STEEL THAT IS DETERIORATED (WITH MORE THAN 25% SECTION LOSS) WITH NEW REINFORCING STEEL OF THE SAME SIZE. ALL REINFORCING STEEL SHALL HAVE A MINIMUM 2'-0" LAP SPLICE. REINFORCING STEEL SHALL BE PAID UNDER ITEM 507.11, REINFORCING STEEL, LEVEL 1.
10. WELDED WIRE FABRIC AND DRILLING AND GROUTING DOWELS SHALL BE PAID UNDER ITEM 507.11, REINFORCING STEEL, LEVEL 1.
11. REMOVAL OF EXISTING CONCRETE TO A DEPTH GREATER THAN SPECIFIED FOR ITEM 580.14 SHALL BE PAID UNDER ITEM 580.15, REPAIR OF CONCRETE SUBSTRUCTURE SURFACE, CLASS III.

PROJECT NAME: CHARLOTTE
PROJECT NUMBER: BHO 1445(34)

FILE NAME: z06J088+yp.d+gdn
PROJECT LEADER: M.A. COLGAN
DESIGNED BY: L.S. GARDNER
TYPICAL DETAILS

PLOT DATE: 10/4/2012
DRAWN BY: B.J. MASSE
CHECKED BY: B.O. CRONIN
SHEET 48 OF 55