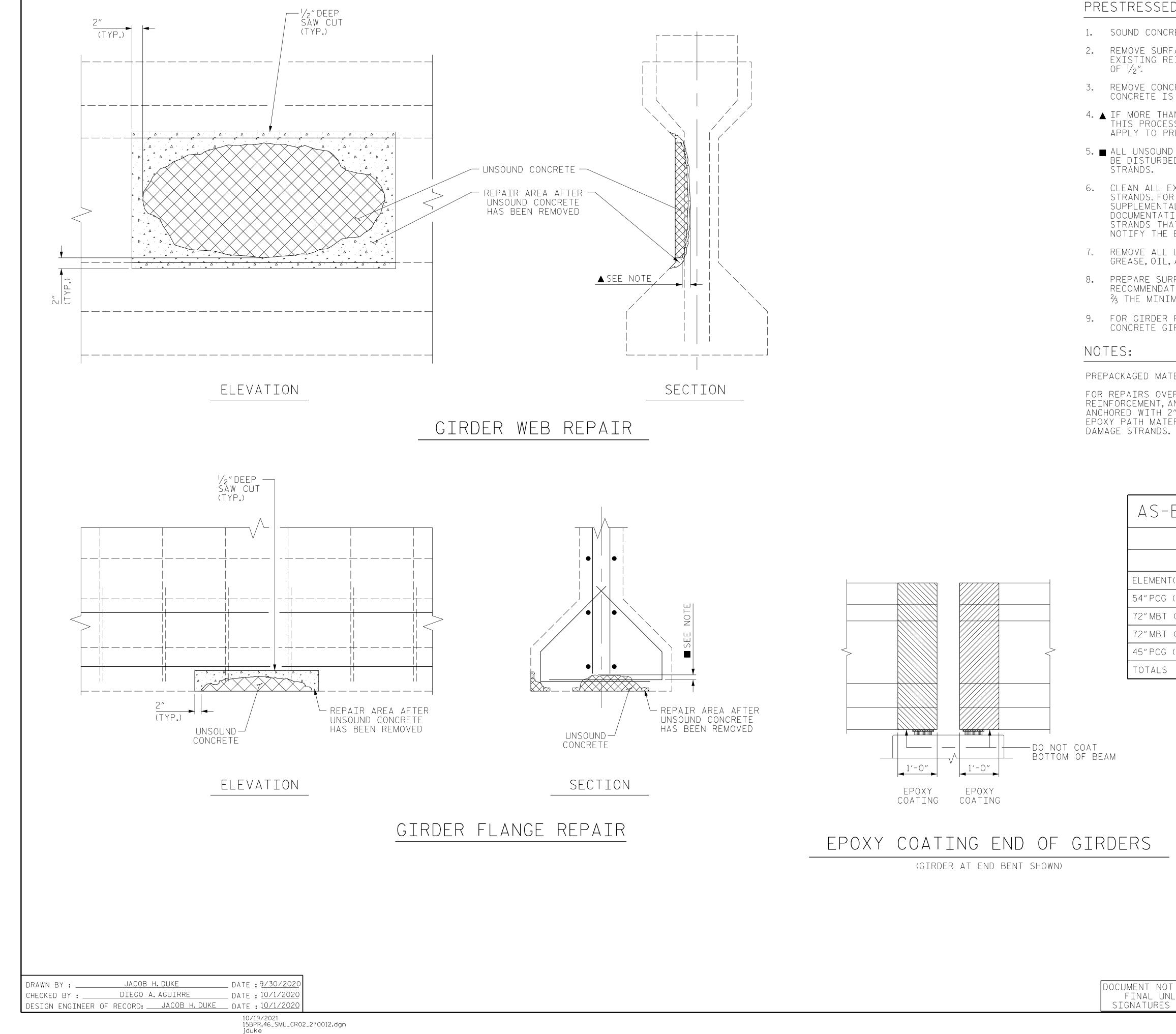
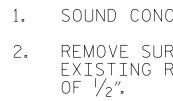
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## PRESTRESSED GIRDER REPAIR SEQUENCE:



PREPACKAGED MATERIAL IS REQUIRED.

1. SOUND CONCRETE TO DETERMINE EXTENTS OF REPAIR LOCATION (PHOTO REQUIRED). REMOVE SURFACE CONCRETE TO VERIFY THAT SAW CUT DEPTH WILL NOT DAMAGE EXISTING REINFORCING STEEL.SAW CUT AROUND REPAIR AREA TO A NOMINAL DEPTH

REMOVE CONCRETE WITHIN SAW CUT AREA TO MINIMUM DEPTH 1/2" DEPTH. IF CONCRETE IS DAMAGED BEYOND THE ORIGINAL SAW CUT, A NEW SAW CUT IS REQUIRED. 4. ▲ IF MORE THAN HALF THE CIRCUMFERENCE OF A REINFORCING BAR IS EXPOSED DURING THIS PROCESS, REMOVE ADDITIONAL CONCRETE TO 1"BEHIND THE BAR. THIS DOES NOT APPLY TO PRESTRESS STRANDS.

5. ■ ALL UNSOUND CONCRETE MUST BE REMOVED.HOWEVER, PRESTRESSED STRAND SHOULD NOT BE DISTURBED UNLESS ABSOLUTELY NECESSARY. USE EXTREME CARE TO NOT DAMAGE

CLEAN ALL EXPOSED REINFORCING BARS AND PRESTRESSED STRANDS.FOR BARS WITH MORE THAN 10% SECTION LOSS, SPLICE AND SECURELY TIE SUPPLEMENTAL REINFORCING BARS AS NEEDED.NOTE AND PROVIDE DETAILED DOCUMENTATION, INCLUDING LOCATION AND SEVERITY OF ALL DAMAGE TO PRESTRESSED STRANDS THAT EXCEEDS 10% SECTION LOSS. IF FIVE OR MORE STRANDS ARE DAMAGED, NOTIFY THE ENGINEER PRIOR TO PLACEMENT OF REPAIR MATERIAL.

7. REMOVE ALL LOOSE OR WEAKENED MATERIAL THEN CLEAN THE REPAIR AREA OF DIRT, GREASE, OIL, AND FOREIGN MATTER.

PREPARE SURFACE AND PLACE APPROVED MATERIAL ACCORDING TO MANUFACTURER'S RECOMMENDATIONS. MAXIMUM AGGREGATE SIZE FOR REPAIR MATERIAL SHALL NOT EXCEED ⅔ THE MINIMUM REPAIR DEPTH.

9. FOR GIRDER REPAIRS, SEE PROJECT SPECIAL PROVISION FOR REPAIRS TO PRESTRESSED CONCRETE GIRDERS AND SEE "SUPERSTRUCTURE DEFICIENCIES" SHEETS.

FOR REPAIRS OVER TRAFFIC AND SHALLOW REPAIRS THAT DO NOT ENGAGE REINFORCEMENT, ANCHOR PATCH MATERIAL USING 1/4" GALVANIZED BOLTS, EPOXY ANCHORED WITH 2"EMBEDMENT.PLACE BOLTS IN A 6"GRID.USE A LATEX OR EPOXY PATH MATERIAL FOR IMPROVED BOND. USE EXTREME CARE TO NOT

-BUILT REPAI	er qu	IANTI	TY T#	ABLE	
EPOXY COATING BEAM ENDS					
	BMS/SPAN SF/BEAM		TOTAL		
NT(S)	NO.	RATE	ESTIMATE	ACTUAL	
G (SPANS 1-15 & 19-33)	7	20.1 SF	4221 SF		
t (SPANS 16 & 18)	7	31.1 SF	435 SF		
t (SPAN 17)	10	31.1 SF	311 SF		
G (SPANS 34-73)	7	16.7 SF	4676 SF		
5 9,643 SF					

	project no. <u>15BPR.4</u> 	6 UNTY			
	BRIDGE NO270012				
SHEET 2 OF 4					
Jacok Joseph CARO Jacok Joseph ESS / 01	STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH				
SEAL 043777 06 INE <sup>FR</sup> 10/19/2001	CONCRETE RESTORA Details	TION			
KCA	P/S CONCRETE GIRDERS				
	REVISIONS	SHEET NO.			
CONSIDERED ESS ALL COMPLETED301 FAYETTEVILLE ST., SUITE 1500 RALEIGH, NC 27601 (919) 882-7839 NC FIRM LICENSE: C-1506	NO. BY: DATE: NO. BY: DATE:   1 3 4 4 4 4	S-52 <sup>total</sup> sheets 137			