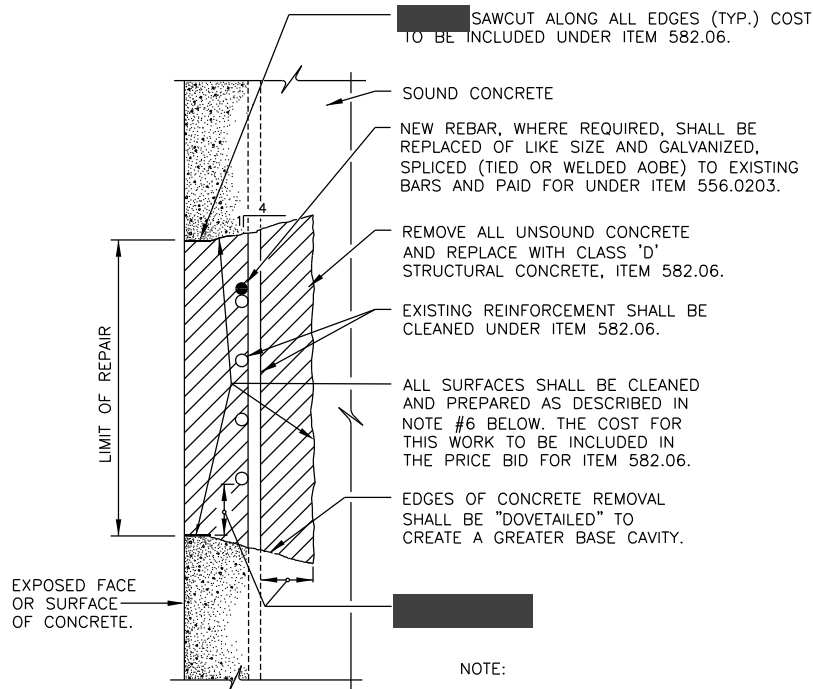


CHECKED BY: TA

DRAFTED BY: TA

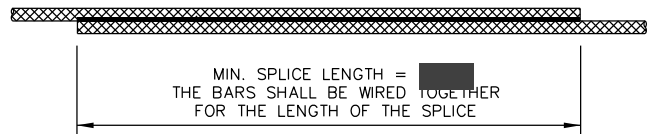
DESIGNED BY: TA

IN CHARGE OF: TA



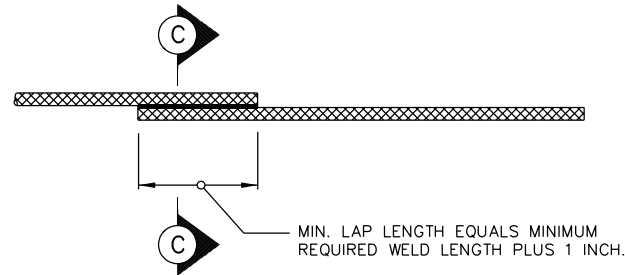
SECTION

TYPICAL CONCRETE SURFACE REPAIR SECTION



PLAN

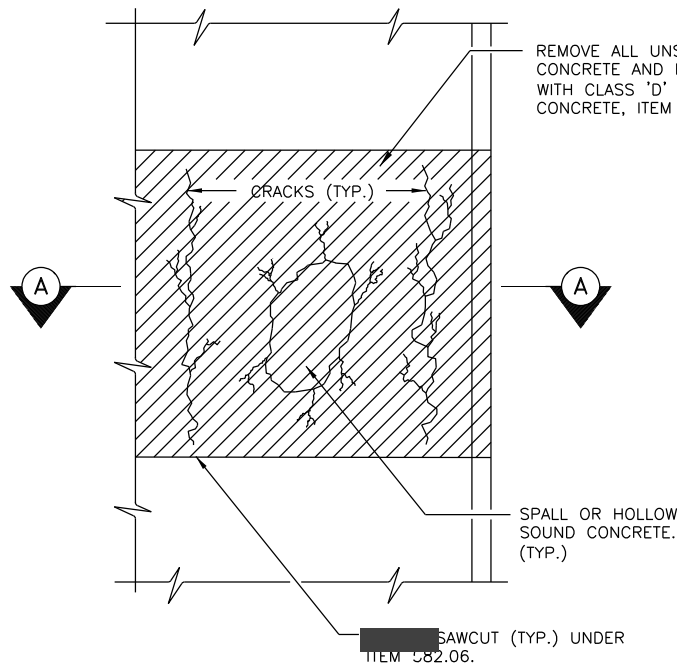
LAPPED, TIED SPLICE



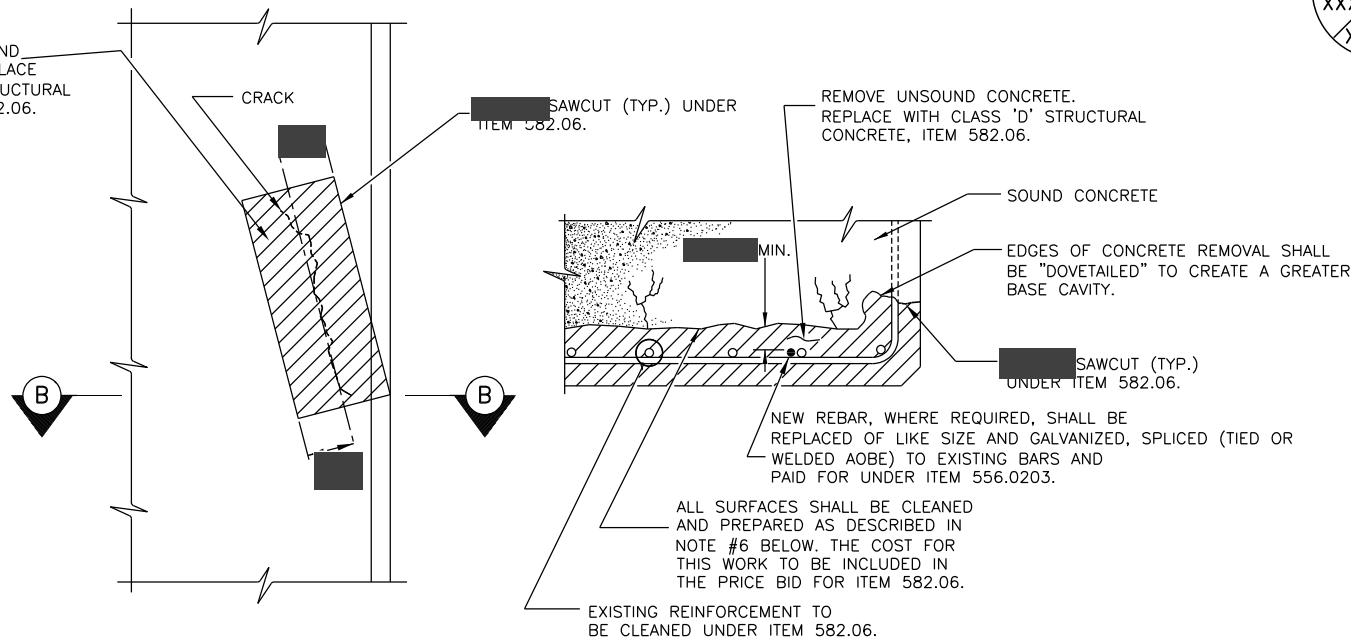
PLAN

WELDED SPLICE

MINIMUM WELD LENGTHS		
BAR SIZE	SINGLE FLARE L1 V-GROOVE WELD	DOUBLE FLARE L2 V-GROOVE WELD
5	[REDACTED]	[REDACTED]
6		
7		
8		
9		



CONCRETE DETERIORATION REPAIR



CONCRETE CRACK REPAIR

CONCRETE SURFACE REPAIR

SECTION A-A

SECTION B-B SIMILAR

CONCRETE REPAIR NOTES:

- FOR GENERAL NOTES SEE DRAWING \_\_\_\_.
- FOR LOCATION OF CONCRETE REPAIRS SEE DRAWING \_\_\_\_.
- SUBSTRUCTURE DETERIORATION REQUIRING REPAIR AS INDICATED ON THE PLANS HAS BEEN DETERMINED BY A FIELD INSPECTION. ALL OF THE MAJOR AREAS, KNOWN TO EXIST AT THE TIME, HAVE BEEN SHOWN TO INDICATE THE APPROXIMATE EXTENT OF DETERIORATION THAT WILL HAVE TO BE REPAIRED BY THE CONTRACTOR.
- THE ANTICIPATED EXTENT OF CONCRETE REPAIR HAS BEEN INDICATED ON THE CONTRACT PLANS. THE PROJECT ENGINEER SHALL EXAMINE THE SUBSTRUCTURE CONCRETE AND ESTABLISH THOSE AREAS OF REPAIR TO BE MADE WITH CLASS "D" CONCRETE. THE EXTENT OF CONCRETE REPAIR TO BE MADE SHALL BE APPROVED BY THE PROJECT ENGINEER.
- DETERIORATED REINFORCEMENT SHALL BE REPLACED OF LIKE SIZE AND GALVANIZED, ITEM 556.0203, AND HAVE A MINIMUM LAP OF [REDACTED] OR A WELDED SPLICE SHALL BE PROVIDED (SEE WELDED SPLICE DETAILS ON THIS DRAWING). IF WELDED, WELDERS SHALL BE QUALIFIED IN ACCORDANCE WITH THE "NEW YORK STATE STEEL CONSTRUCTION MANUAL".
- WHEN JOINING FRESH CONCRETE TO NEW CONCRETE WHICH HAS ALREADY SET, OR TO EXISTING CONCRETE, THE CONCRETE IN PLACE SHALL HAVE ITS SURFACE SCOURED OR ABRADED WITH A SUITABLE TOOL TO REMOVE ALL LOOSE AND FOREIGN MATERIALS. THIS SURFACE SHALL BE SCRUBBED WITH WIRE BROOMS. AFTER THE SURFACE PREPARATION HAS BEEN ACCEPTED, THIS SURFACE SHALL BE THOROUGHLY WET AND KEPT SO FOR A PERIOD OF 12 HOURS IMMEDIATELY PRIOR TO PLACING THE NEW CONCRETE. THIS MAY BE ACCOMPLISHED BY CONTINUOUS WETTING WITH SOAKER HOSES OR THE USE OF BURLAP/BURLENE/ETC. SO THAT MOISTURE CAN BE MAINTAINED. IF, IN THE OPINION OF THE ENGINEER, CONDITIONS OR THE SITUATION PROHIBITS THIS, THEN THE SURFACES SHALL BE WETTED FOR AS LONG AS POSSIBLE. THE CONTRACTOR SHALL REMOVE ANY PUDDLES OR FREE STANDING WATER WITH OIL-FREE COMPRESSED AIR, AND PROTECT THE SURFACES FROM DRYING, SO THAT THE EXISTING CONCRETE REMAINS IN A CLEAN, SATURATED SURFACE DRY CONDITION UNTIL PLACEMENT OF THE NEW CONCRETE. IMMEDIATELY BEFORE PLACING THE NEW CONCRETE, THE FORMS SHALL BE DRAWN TIGHT AGAINST THE CONCRETE ALREADY IN PLACE.
- AT ALL CONCRETE REMOVAL LOCATIONS, THE MINIMUM DEPTH OF REMOVAL SHALL BE NO LESS THAN [REDACTED] BEHIND THE INNERMOST LAYER OF EXPOSED REINFORCING BARS, OR TO SOUND CONCRETE, WHICHEVER IS GREATER.
- WHERE CONCRETE REMOVAL AND REPLACEMENT NECESSITATES ADJACENT SEPARATE CONCRETE PLACEMENTS, CONCRETE REMOVAL SHALL NOT BE ALLOWED WITHIN 1 FOOT OF ADJACENT REPAIR AREAS. ADJACENT AREAS WHERE THIS 1 FOOT BUFFER IS NOT ATTAINABLE SHALL BE COMBINED INTO A SINGLE REPAIR AREA.
- IN SEQUENCING WORK, THE CONTRACTOR SHALL NOT BEGIN CONCRETE REMOVAL AT A LOCATION ADJACENT TO A COMPLETED REPAIR UNTIL A MINIMUM OF 7 CURING DAYS HAVE PASSED.
- A PROTECTIVE OR PENETRATING SEALER FOR CONCRETE SHALL BE APPLIED TO ALL EXPOSED SUBSTRUCTURE CONCRETE SURFACES EXCEPT THE UNDERSIDE OF PIER CAPBEAMS.
- THE EXTENT OF CONCRETE REMOVAL FOR ANY COMPONENT SHALL NOT JEOPARDIZE ITS STRUCTURAL INTEGRITY. THE CONTRACTOR SHALL SUBMIT, PRIOR TO COMMENCEMENT OF THIS WORK, A REMOVAL PLAN AND SCHEDULE FOR PROJECT ENGINEER APPROVAL.
- ALTHOUGH THE DEPTH OF REMOVAL TO SOUND CONCRETE MAY, AT SOME LOCATIONS, EXTEND TO DEPTHS GREATER THAN [REDACTED] IT IS THE INTENT OF THIS PROJECT THAT THE CONTRACTOR SHALL MAKE ALL NECESSARY REPAIRS WITH CLASS "D" CONCRETE PER ITEM 582.06.

PE STAMP & SIGNATURE ARE NOT REQUIRED ON THIS SHEET.

DATE	DESCRIPTION	BY	SYM.
REVISIONS			
NEW YORK STATE THRUWAY AUTHORITY DEPARTMENT OF ENGINEERING 200 SOUTHERN BLVD., ALBANY, N.Y. 12209			
TITLE OF PROJECT TITLE OF PROJECT LINE 1 TITLE OF PROJECT LINE 2			
LOCATION OF PROJECT LOCATION OF PROJECT LINE 1 LOCATION OF PROJECT LINE 2			
TITLE OF DRAWING CLASS "D" CONCRETE REPAIR DETAILS			
		CONTRACT NUMBER:	TA
		DATE:	9/10
		DRAWING NUMBER:	*