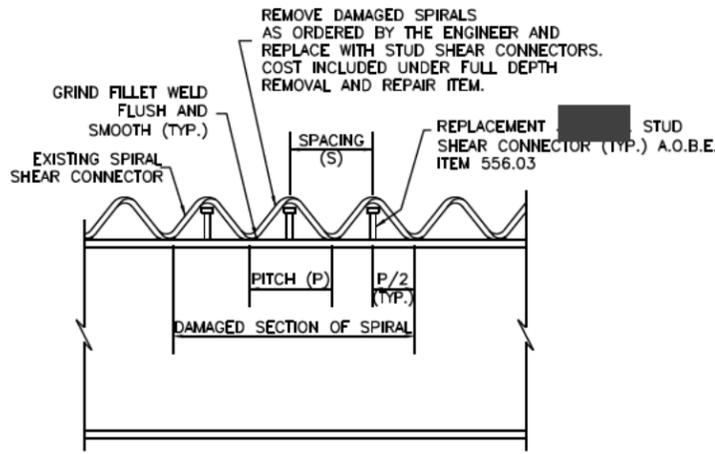


XXX
XXX

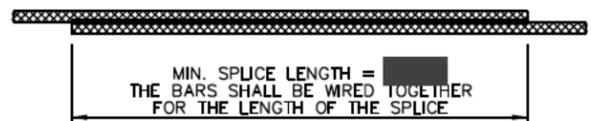


NOTE: REPLACEMENT STUD SHEAR CONNECTORS - ITEM 556.03. THIS ITEM IS FOR BIDDING PURPOSES ONLY.

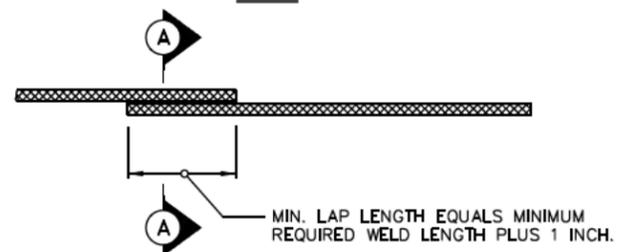
PARTIAL ELEVATION OF GIRDER

REPLACEMENT OF SPIRAL SHEAR CONNECTORS WITH STUD SHEAR CONNECTORS

REPLACEMENT SHEAR STUD CONNECTOR SPACING		
PITCH	Bf < 13"	Bf ≥ 13"
SHEAR STUD CONNECTOR LENGTH		
DECK THICKNESS	HAUNCH DEPTH	SHEAR STUD LENGTH



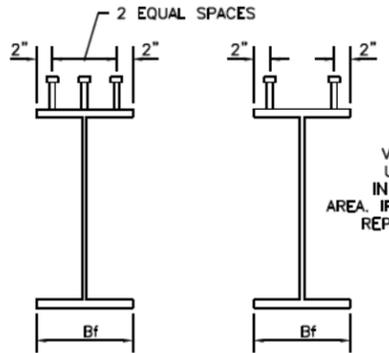
LAPPED, TIED SPLICE



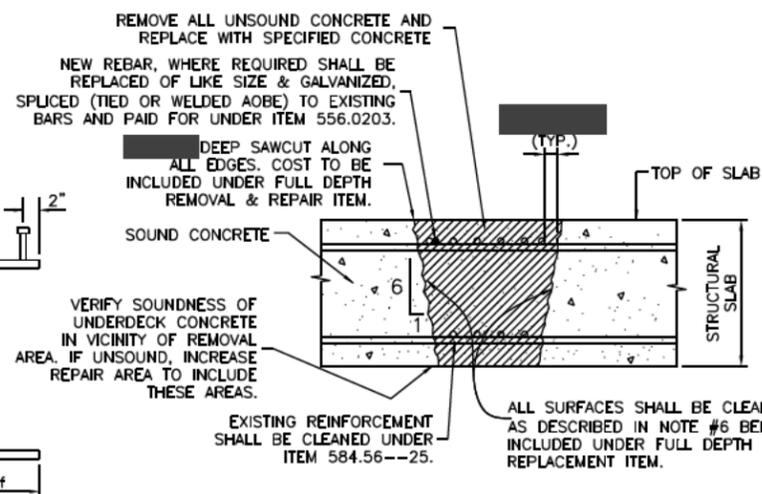
WELDED SPLICE

N.T.S.

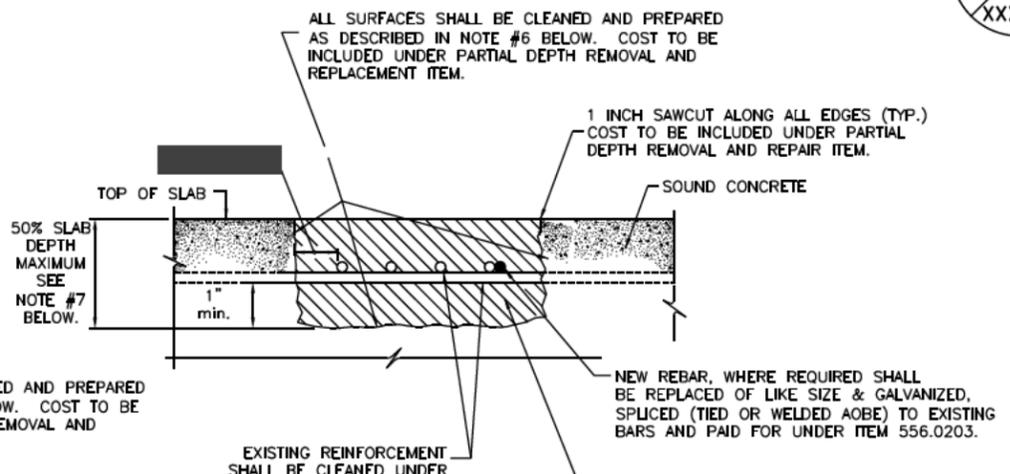
MINIMUM WELD LENGTHS		
BAR SIZE	SINGLE FLARE L1 V-GROOVE WELD	DOUBLE FLARE L2 V-GROOVE WELD
5		
6		
7		
8		
9		



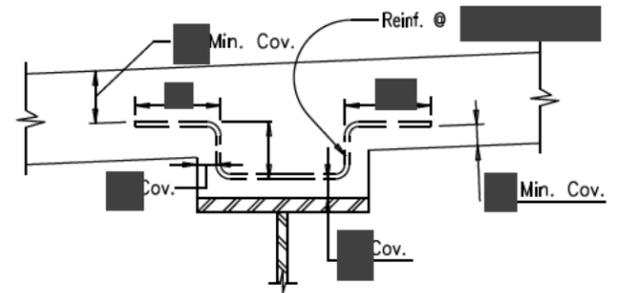
EXISTING SPIRAL SHEAR CONNECTOR NOT SHOWN



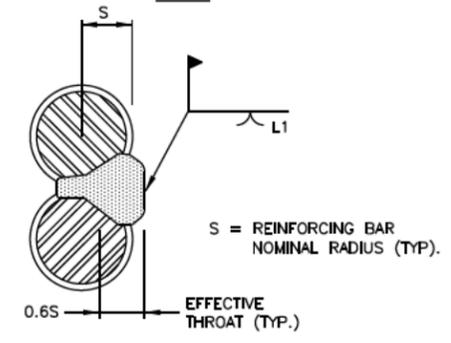
FULL DEPTH REMOVAL OF STRUCTURAL SLAB AND REPLACEMENT WITH RAPID HARDENING CONCRETE (MISC. LOCATIONS, FORMWORK REQUIRED) ITEM 584.56--25



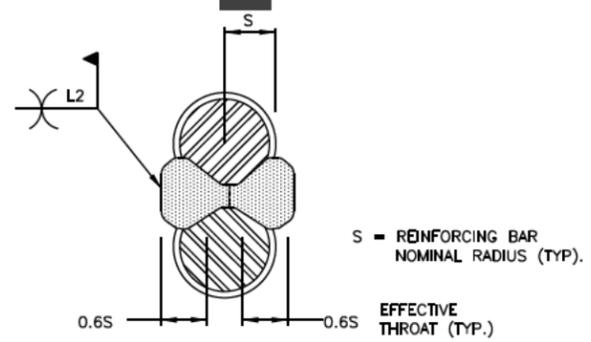
PARTIAL DEPTH REMOVAL OF STRUCTURAL SLAB AND REPLACEMENT WITH RAPID HARDENING CONCRETE ITEM 584.55--25



REINFORCED GIRDER HAUNCH DETAIL (FOR USE WHEN HAUNCH DEPTH > 4")



SINGLE FLARE V - GROOVE WELD



SECTION A-A DOUBLE FLARE V - GROOVE WELD

CONCRETE REPAIR NOTES:

- FOR GENERAL NOTES SEE DRAWING ____
- FOR LOCATION OF FULL DEPTH CONCRETE REPAIRS SEE DRAWING ____
- DECK DETERIORATION REQUIRING FULL DEPTH 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 DECK SLAB CONCRETE AND ESTABLISH THOSE AREAS OF FULL AND PARTIAL DEPTH REPAIR TO BE MADE WITH THE SPECIFIED CONCRETE. THE EXTENT OF CONCRETE REPAIR TO BE MADE SHALL BE APPROVED BY THE PROJECT ENGINEER.
- DETERIORATED REINFORCEMENT SHALL BE REPLACED OF LIKE SIZE & 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 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 PARTIAL DEPTH CONCRETE REMOVAL LOCATIONS, THE MINIMUM DEPTH OF REMOVAL SHALL BE NO LESS THAN [redacted] BELOW THE TOP MAT REINFORCING BARS, OR TO SOUND CONCRETE, WHICHEVER IS GREATER. WHERE THE REMOVAL DEPTH EXCEEDS [redacted] OF THE SLAB THICKNESS, A FULL DEPTH REPAIR SHALL BE REQUIRED.
- WHERE CONCRETE REMOVAL AND REPLACEMENT NECESSITATES ADJACENT SEPARATE CONCRETE PLACEMENTS, CONCRETE REMOVAL SHALL NOT BE ALLOWED WITHIN [redacted] OF ADJACENT REPAIR AREAS. ADJACENT AREAS WHERE THIS [redacted] 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 2 CURING HOURS HAVE PASSED.
- A PROTECTIVE OR PENETRATING SEALER FOR CONCRETE SHALL BE APPLIED TO ALL EXPOSED CONCRETE SURFACES EXCEPT THE UNDERSIDE OF THE STRUCTURAL DECK BETWEEN THE DRIP EDGES.
- 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.

PE STAMP & SIGNATURE ARE NOT REQUIRED ON THIS SHEET.

DATE	DESCRIPTION	BY	SYM.

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
FULL & PARTIAL DEPTH CONCRETE SLAB REPAIR DETAILS

CONTRACT NUMBER: TA
DATE: 9/10
DRAWING NUMBER: *



DESIGNED BY: IA
CHECKED BY: IA
IN CHARGE OF: IA