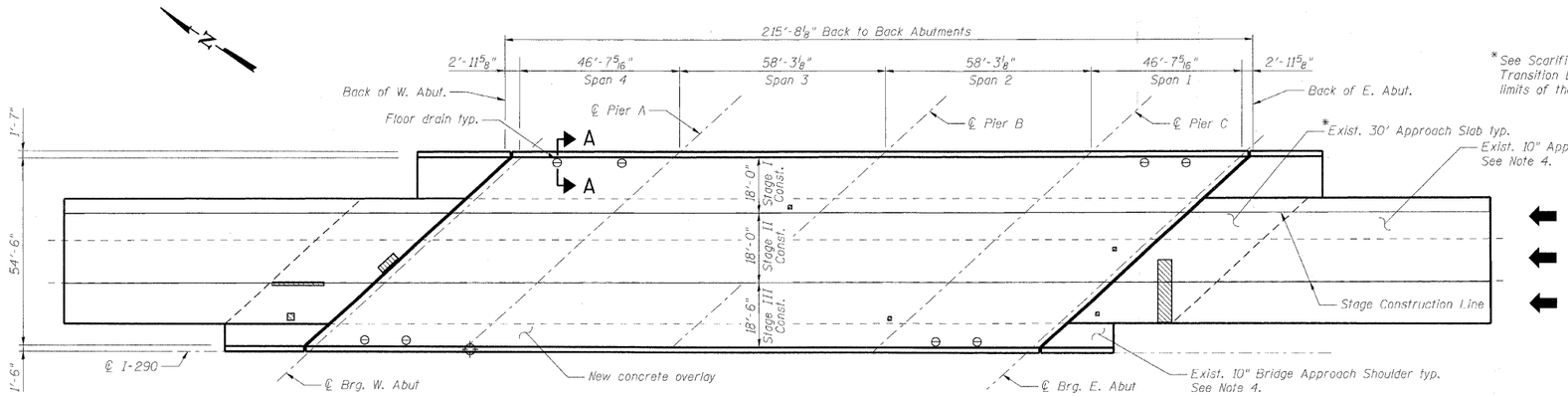
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



PLAN

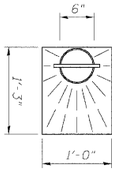
*See Scarification & Overlay Transition Detail on this sheet for limits of the 30' Approach Slab.

**Contractor shall increase scarification thickness or reduce overlay thickness as directed by the Engineer to ensure this dimension is never less than 0".

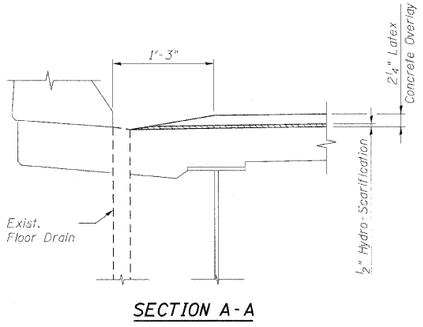
BILL OF MATERIAL

SYMBOL	ITEM	UNIT	QUANTITY
	Deck Slab Repair (Partial)	Sq. Yd.	5.0 ▲
	Approach Slab Repair (Partial Depth)	Sq. Yd.	23.2 ▲
	Structural Repair of Concrete (Depth Equal to or Less than 5 Inches)	Sq. Ft.	8
	Protective Shield	Sq. Yd.	797
	Bridge Deck Grooving	Sq. Yd.	1,597
	Protective Coat	Sq. Yd.	1,670
	Bridge Deck Latex Concrete Overlay, 2 1/4"	Sq. Yd.	1,634
	Bridge Deck Hydro-Scarification, 1/2"	Sq. Yd.	1,634

▲ For information only to assist the Contractor in bidding. See Special Provision for "Bridge Deck Latex Concrete Overlay".

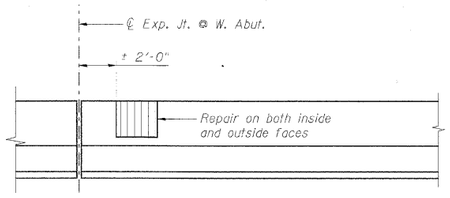


FLOOR DRAIN PLAN

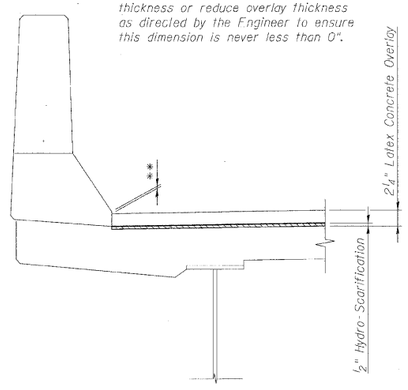


SECTION A-A

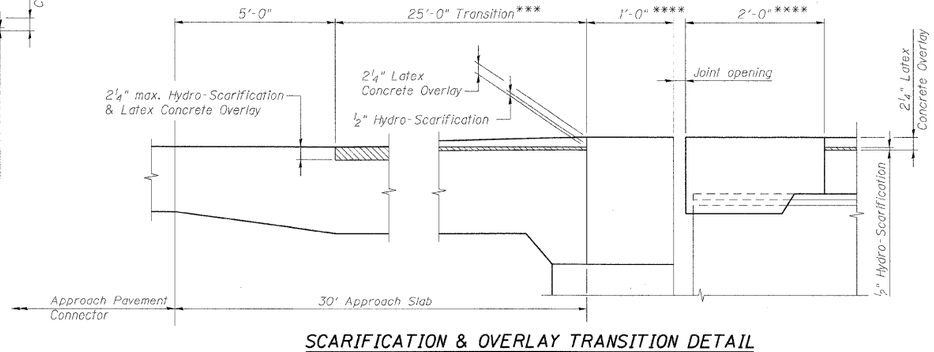
CONCRETE OVERLAY AT FLOOR DRAIN



INSIDE ELEVATION - OUTSIDE PARAPET



SCARIFICATION & OVERLAY DETAIL AT PARAPET



SCARIFICATION & OVERLAY TRANSITION DETAIL

***Cost of increased hydro-scarification depth over length of transition shall be included with Bridge Deck Hydro-Scarification, 1/2".

****Construct new concrete at joints to same lines and grades as new concrete overlay at these locations.

Notes:

1. Deck and approach slab repair areas are estimated based on visual inspection completed in June 2009. Actual repair areas and locations shall be determined by the Engineer and shown on As-Built plans.
2. Protective Shield, required for deck slab and/or parapet repairs, shall be installed according to Article 501.03 of the Standard Specifications. For limits of Protective Shield, see General Plan and Elevation sheet.
3. Deck drains (downspouts, floor drains, and scuppers) shall be cleaned prior to placement of the Latex Concrete Overlay. Cost of cleaning the deck drains is included in Bridge Deck Hydro-Scarification, 1/2".
4. The Engineer shall determine the type and quantity of Class A patching and the quantity of Mixture for Cracks, Joints and Flangeways. Estimated quantities are included in the overall Summary of Quantities in Roadway Plans.
5. Gaps caused by distress around floor drains shall be filled with epoxy as specified in the Special Provision "Epoxy Injection". Cost included with Bridge Deck Latex Concrete Overlay, 2 1/4".
6. Cost of new overlay on approach slab transition in included with Bridge Deck Latex Concrete Overlay, 2 1/4".

DESIGNED -	TJJ
CHECKED -	AAY
DRAWN -	RMG
CHECKED -	AAY

benesch
alfred benesch & company
Engineers • Surveyors • Planners
205 North Michigan Avenue, Suite 2400
Chicago, Illinois 60601
312-565-0450 Job No. 10050

BRIDGE DECK AND APPROACH SLAB REPAIRS
STRUCTURE NO. 016-0083

SHEET NO. 4	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9 SHEETS	290	2009-099 BR	COOK/DUPAGE	309	134
			CONTRACT NO. 60157		
	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

11\12.2009 18:32:36 x:\10000s\10050\engineering_documents...\SN_016_0083_0004_Butterfield_Rd\0083-60051-004-deckrepair.dgn