



SUGGESTED SEQUENCE OF CONSTRUCTION

Remove Pavement behind existing abutments and excavate to a depth of three feet below bottom of existing pile cap.

Remove exposed portions of existing timber backing and store existing planks in a safe location for re-use. The Engineer shall determine which planks are suitable for re-use and notify the Contractor of the quantity of new Treated Timber backing required. Cost of plank removal and storage included with Removal of Existing Superstructures.

Remove existing PPC Deck Beam superstructure.

Excavate in front of abutments to a depth of three feet below bottom of existing pile cap.

Install Fiber Wrap around the exposed three feet of all existing piles, except at northwest corner (13 locations total). Perform this work according to Manufacturer's recommendations and Special Provisions.

Construct Concrete Encasement around existing pile at Northwest corner as shown on Sheet 7 of 7.

Perform Structural Repair of Concrete as determined by the Engineer.

Replace timber backing in its original position according to Article 507.11 of the Standard Specifications, with original 3x12 rough-sawn planks supplemented by new Treated Timber backing as determined by the Engineer.

Apply Stone Dumped Riprap in front of existing abutments as shown. Exercise care not to damage FRP wrapped piles.

Erect new PPC Deck Beam superstructure.

Backfill behind existing abutments with Porous Granular Embankment, Special, to the lower limit of the roadway subgrade.

Construct approach pavement and complete bridge work.

NOTES

Pavement Removal and excavation behind the abutments shall be completed prior to removing the existing superstructure. No heavy equipment shall be allowed within six feet of the abutments until the new superstructure is in place.

Contractor shall exercise caution during removal operations, and when replacing timber backing and placing Riprap, to avoid damaging the existing piles or FRP wrap. Any damage deemed unacceptable by the Engineer shall be repaired at the Contractor's expense.

See Sheet 7 of 7 for Pile Encasement Details and concrete surface repair locations.

Quantity for Treated Timber is a nominal amount, provided to establish a Unit Price, and may be removed from the contract if not needed. Actual quantity to be determined by the Engineer during removal operations. Any attachment hardware required will not be paid for separately, but shall be included with the unit bid price for Treated Timber.

Application of Fiber Wrap shall include two layers of FRP, unless directed otherwise by the Engineer, or as shown in the Special Provisions.

BILL OF MATERIAL

Item	Unit	Total
Removal of Existing Superstructures	Each	1
Structure Excavation	Cu. Yd.	43
Fiber Wrap	Sq. Ft.	250
Stone Dumped Riprap, Class A4	Ton	80
Porous Granular Embankment, Special	Cu. Yd.	100
Treated Timber	F.E.M.	200

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 STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
 52700
 PROJECT: VILLAGE OF KIRKLAND, HORTENSE ST BRIDGE OVER BULL RUN CREEK
 SHEET NO. 6 OF 7 SHEETS
 DATE: 05/04/12

FILE NAME =	USER NAME =	DESIGNED AS	REVISED
		CHECKED BAB	REVISED
		DRAWN BCD	REVISED
		CHECKED BLB	REVISED

**VILLAGE OF KIRKLAND
 HORTENSE ST BRIDGE OVER
 BULL RUN CREEK**

**SUBSTRUCTURE REPAIRS
 STRUCTURE NO. 019-4002**

SHEET NO. 6 OF 7 SHEETS

MUN. ST.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1090	10-00008-00-BR	DEKALB	20	15
CONTRACT NO. B7532				
FED. ROAD DIST. NO. 3 (ILLINOIS) FED. AID PROJECT RFP-037043				