TOTAL BILL OF MATERIAL

DESCRIPTION	UNIT	SUPER.	SUB.	TOTAL
Polymerized Hot-Mix Asphalt Surface Course, Mix "F", N70	Ton	612	-	612
Concrete Removal	Cu Yd	76.9	-	76.9
Floor Drains	Each	112	-	112
Plug Existing Deck Drains	Each	80	-	80
Concrete Superstructure	Cu Yd	79.0	-	79.0
Bridge Deck Grooving	Sq Yd	3,292	-	3,292
Structural Steel Repair	Pound	8,830	-	8,830
Cleaning and Painting Structural Steel, Location 1	L Sum	1	-	1
Reinforcement Bars, Epoxy Coated	Pound	12,660	-	12,660
Preformed Joint Strip Seal	Foot	144	-	144
Hot-Mix Asphalt Surface Removal (Deck)	Sq Yd	7,296	-	7,296
Bridge Deck Latex Concrete Overlay, 2½ Inches	Sq Yd	3,508	-	3,508
Bridge Deck Scarification ¾"	Sq yd	3,508	-	3,508
Structural Repair of Concrete (Depth Equal to or Less Than 5 Inches)	Sq Ft	250	2,177	2,427
Deck Slab Repair (Full Depth, Type I)	Sq Yd	30		30
Deck Slab Repair (Full Depth, Type II)	Sq Yd	40	-	40
* Deck Slab Repair (Partial)	Sq Yd	832	-	832
Steel Post, Attached To Structures	Each	200	-	200
Silicone Joint Sealer, 2.75"	Foot	648	-	648
Remove and Reinstall Existing Aluminum Parapet	Foot	3,684	-	3,684
Modular Expansion Joint 6"	Foot	108	-	108
Waterproofing Membrane System (Special)	Sq Yd	7,296	-	7,296
Containment and Disposal of Lead Paint Cleaning Residues No. 1	L Sum	1		1

*Includes quantities for spans 4 thru 6 each structure

GENERAL NOTES:

Fasteners shall be ASTM A325, Type I, Mechanically galvanized bolts. ¾"ɸ bolts, 13/16"ɸ holes, unless otherwise noted.

Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

Prior to pouring the new concrete deck, all heavy or loose rust, loose mill scale and other loose or potentially detrimental foreign material shall be removed from the surfaces in contact with concrete. Tightly adhered paint may remain unless otherwise noted. Removal shall be accomplished by methods that will not damage the steel and the cost will be included in the pay item covering removal of the existing concrete.

As directed by the Engineer, existing construction accessories welded to the top flange of beams and girders shall be removed. The weld areas shall be ground flush and inspected for cracks using magnetic particle testing (MT) or dye penetrant testing (PT) by qualified personnel approved by the Engineer. Any cracks that can not be removed by grinding ¼ in. deep shall be identified and reported to the Bureau of Bridges and Structures for further disposition. The cost of removing welded accessories, grinding and inspecting weld areas and grinding cracks will be paid for according to Article 109.04 of the Standard Specifications.

The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to deal with the presence of lead on this project.

The Contractor shall test the existing welds by non-destructive methods within 2 ft. of the end of the existing cover plates for cracks after removal of the existing concrete deck. Dye penetrant (PT) magnetic particle (MT) or other approved testing method shall be performed by qualified personnel approved by the Engineer. If cracks are found, report them to the Bureau of Bridges and Structures for disposition. The cost of testing is included in Removal of Existing Concrete Deck. The cost of crack repair, if necessary, will be paid for according to Article 109.04 of the Standard Specifications.

No field welding is permitted except as specified in the contract documents.

Slip forming of the parapets is not allowed.

Reinforcement bars designated (E) shall be epoxy coated.

All structural steel shall conform to AASHTO classification M-270 GR. 36, unless otherwise noted.

Areas of deck repairs shown are estimated. The Engineer shall show actual locations of deck repairs on as-built plans.

Joint openings shall be adjusted according to Article 520.04 of the Standard Specifications when the deck is poured at an ambient temperature other than 50°F.

Existing reinforcement bars extending into the removal area shall be cleaned, straightened and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal shall be replaced with an approved bar splicer or anchorage system. Cost included with concrete removal.

Existing structural steel that will be in contact with new structural steel shall be cleaned and painted prior to erection as required by the Special Provision "Cleaning and Painting Contact Surface Areas of Existing Steel Structures."

Diaphragm connection holes shall be 15/16"ɸ for ¾"ɸ bolts. Two hardened washers shall be required at diaphragm connections.

GENERAL NOTES FOR PAINT:

Clean and paint steel elements under all deck truss joints. Paint all truss members and attached vertical & horizontal gusset plates within the splash zone of the deck up to 12'-0" above the top of deck. Also paint 5'-0" from beam ends in the approach spans of both abutments and at the piers adjacent to the truss. Full paint removal (SSPC-SP10) is recommended.

Cleaning and painting of the existing structural steel shall be as specified in the Special Provision for "Cleaning and Painting Existing Steel Structures".

A minimum of four (4) air monitors will be required to monitor abrasive blasting operations per location. See Special Provisions for containment and disposal of lead paint cleaning residue.

The SSPC-QP1 and SSPC-QP2 painting Contractor certifications will be required for these bridges.

The areas designated to be cleaned per near white blast cleaning SSPC-SP10 shall be painted according to the requirements of Paint System 1-OZ/E/U. The color of the final finish coat shall be Gray, Munsell No. 5B 7/1.

All items, such as, but not limited to, conduits, brackets & deck drains attached to the outside of the fascia beams should be cleaned and painted.

INDEX OF SHEETS