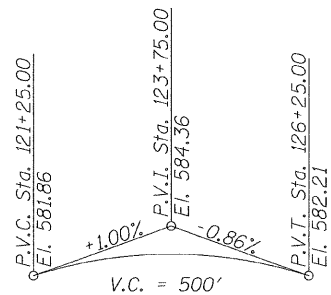


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EXISTING PROFILE GRADE

(Along F.A.S. 559 P.G.)
(From Existing Plans)

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Concrete Removal	Cu Yd	21.7		21.7
Protective Shield	Sq Yd	525		525
Concrete Structures	Cu Yd		4.7	4.7
Concrete Superstructure	Cu Yd	19.1		19.1
Bridge Deck Grooving	Sq Yd	1574		1574
Protective Coat	Sq Yd	1701		1701
Floor Drain Extension	Each	58		58
Furnishing and Erecting Structural Steel	Pound	3190		3190
Jack and Remove Existing Bearings	Each	20		20
Reinforcement Bars, Epoxy Coated	Pound	2780	285	3065
Relocating Name Plates	Each		1	1
Preformed Joint Strip Seal	Foot	102		102
Elastomeric Bearing Assembly, Type I	Each	10		10
Elastomeric Bearing Assembly, Type II	Each	10		10
Anchor Bolts, 1"	Each	40		40
Plug Existing Deck Drains	Each	20		20
Bridge Deck Microsilica Concrete Overlay 2 1/4"	Sq Yd	1648		1648
Deck Slab Repair (Full Depth Type I)	Sq Yd	0.5		0.5
Deck Slab Repair (Full Depth Type II)	Sq Yd	155.3		155.3
Bridge Deck Hydro-Scarification 1/2"	Sq Yd	1648		1648
Cleaning Bridge Seats	Sq Ft		369	369

GENERAL NOTES

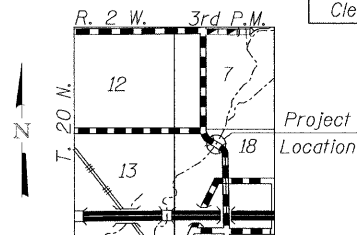
Fasteners shall be AASHTO M164 Type 3, mechanically galvanized bolts. Bolts $\frac{3}{4}$ " ϕ , holes $\frac{15}{16}$ " ϕ , unless otherwise noted.
 All structural steel shall be AASHTO M270 Grade 50.
 Reinforcement bars shall conform to the requirements of ASTM A706, Grade 60.
 No field welding is permitted except as specified in the contract documents.
 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.
 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.
 The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to deal with the presence of lead on this project.
 The existing abutment seats and the seat of Pier 2 shall be cleaned according to the special provision for "Cleaning Bridge Seats".
 All structural steel shall be shop painted with the inorganic zinc rich primer per AASHTO M300, Type 1. Cost included with Furnishing and Erecting Structural Steel.
 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."
 Reinforcement Bars designated (E) shall be epoxy coated.

PROPOSED IMPROVEMENTS

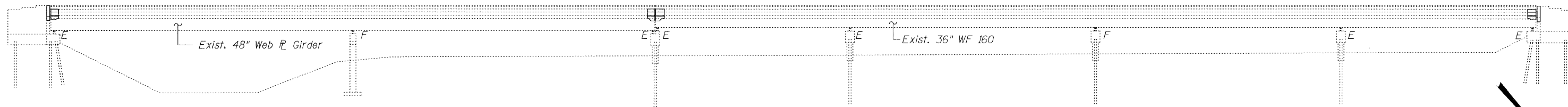
- 1. Replace expansion joints at the abutments and Pier 2.
- 2. Hydroscarify deck $\frac{1}{2}$ " and install $2\frac{1}{4}$ " microsilica overlay.
- 3. Perform full depth deck patching.
- 4. Replace steel rocker bearings at abutments and piers with elastomeric bearings.
- 5. Plug/extend existing floor drains.

DESIGN STRESSES

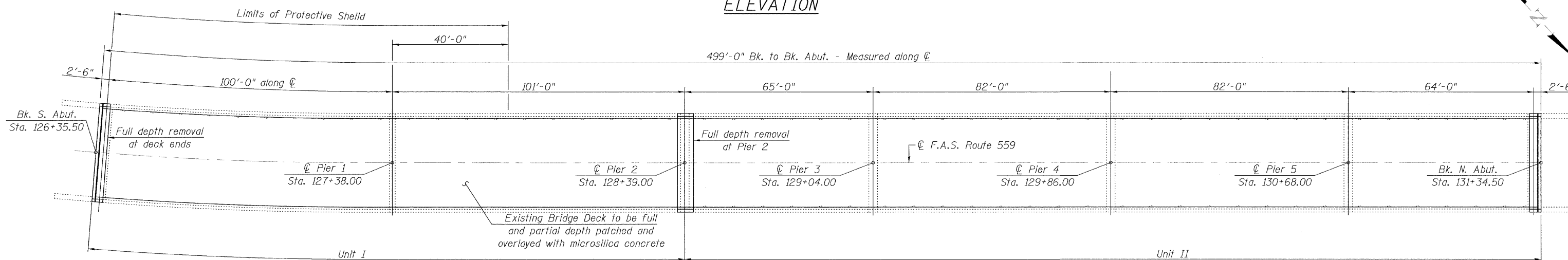
FIELD UNITS (NEW CONSTRUCTION)
 $f'_c = 3500$ psi
 $f_y = 60000$ psi (reinforcement)



LOCATION SKETCH



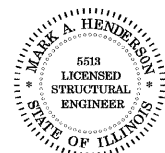
ELEVATION



PLAN

GENERAL PLAN & ELEVATION
F.A.S. ROUTE 559 OVER KICKAPOO CREEK
S.N. 054-3003

Flow Kickapoo Creek



Mark A. Henderson 11/23/09
 Expiration Date: 11/30/2010

Allen Henderson & Associates, Inc.
 Civil and Structural Engineers Springfield, IL
 62703 Phone: (217)544-8033 IL Design Firm
 No. 184-001907

SHEET NO. 1 20 SHEETS	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	559	09-00074-01-BR	LOGAN	22	3
CONTRACT NO. 93511					
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					