

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

P.L. & E.C.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
24		JOHNSON	150	137
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

* BSMART FY04-3
98836

CURVE DATA

Values from Existing plans
 Δ - 19°-59'-40"
 D - 0°-30'-00"
 R - 11,459.16'
 T - 2020.00'
 L - 3998.92'
 E - 176.68'
 S.E. - .015 Ft./Ft.
 S.E. attained:
 sta. 408+46.12 to sta. 410+46.12
 sta. 451+11.70 to sta. 449+11.70

GENERAL NOTES

Plan dimensions and details relative to existing structure have been taken from existing plans and are subject to nominal construction variations. It shall be the Contractor's responsibility to verify such dimensions and details in the field 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 the scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

Reinforcement bars shall conform to the requirements of AASHTO M-31, or M-322 Grade 60.

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.

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

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".

Joint openings shall be adjusted according to Article 503.10(c) of the Standard Specifications when the deck is poured at an ambient temperature other than 50°F.

Sequence of Construction

1. Scarify and Resurface Existing Shoulders
2. Remove Stage I Areas
3. Perform Stage I Repairs and Overlay
4. Remove Stage II Areas
5. Perform Stage II Repairs and Overlay

Scope of Work

Scarify existing ±9" thick bituminous shoulders and resurface with bituminous shoulder

Scarify existing bare deck

Partial depth deck patching

Eliminate every other drain and drains within 10' of abutments and piers

Microsilica Concrete Overlay

Expansion Joint Treatment

Design Stresses

FIELD UNITS

NEW CONSTRUCTION

f'_c = 3,500 psi

f'_s = 60,000 psi (reinforcement)

EXISTING STRUCTURE

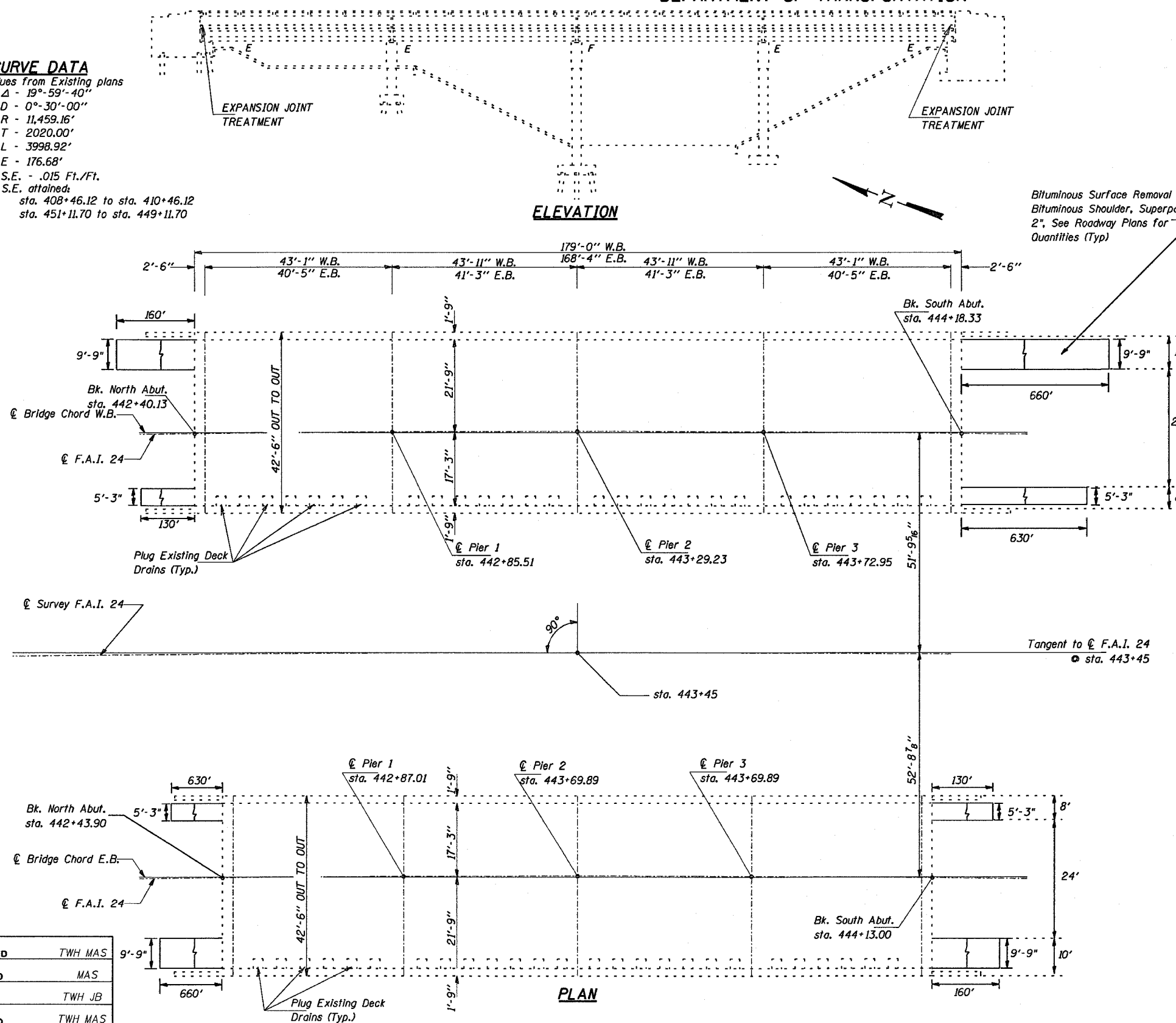
f'_c = 1,200 psi (hatchblock)

f'_s = 20,000 (reinforcement)

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL	0045	0046
Concrete Bridge Deck Scarification (1/2 inch)	Sq. Yd.	1491	768	723
Deck Slab Repair (Partial Depth)	Sq. Yd.	30	15	15
Plug Existing Deck Drains	Each	26	13	13
Bridge Deck Microsilica Concrete Overlay 2 1/4"	Sq. Yd.	1491	768	723
Concrete Removal	Cu. Yd.	8.2	4.1	4.1
Reinforcement Bars, Epoxy Coated	Pound	950	475	475
Bar Splicers	Each	16	8	8
Concrete Superstructure	Cu. Yd.	9.1	4.55	4.55
Polymer Concrete	Cu. Ft.	15.8	7.9	7.9
Silicone Joint Sealer 1 1/2"	Foot	162	81	81
Bridge Deck Grooving	Sq. Yd.	1414	729	685

GENERAL PLAN AND ELEVATION
FAI 24 OVER LITTLE CACHE CREEK
JOHNSON COUNTY
STA. 443+45
S.N. 044-0045 (W.B.)
S.N. 044-0046 (E.B.)



DESIGNED	TWH MAS
CHECKED	MAS
DRAWN	TWH JB
CHECKED	TWH MAS