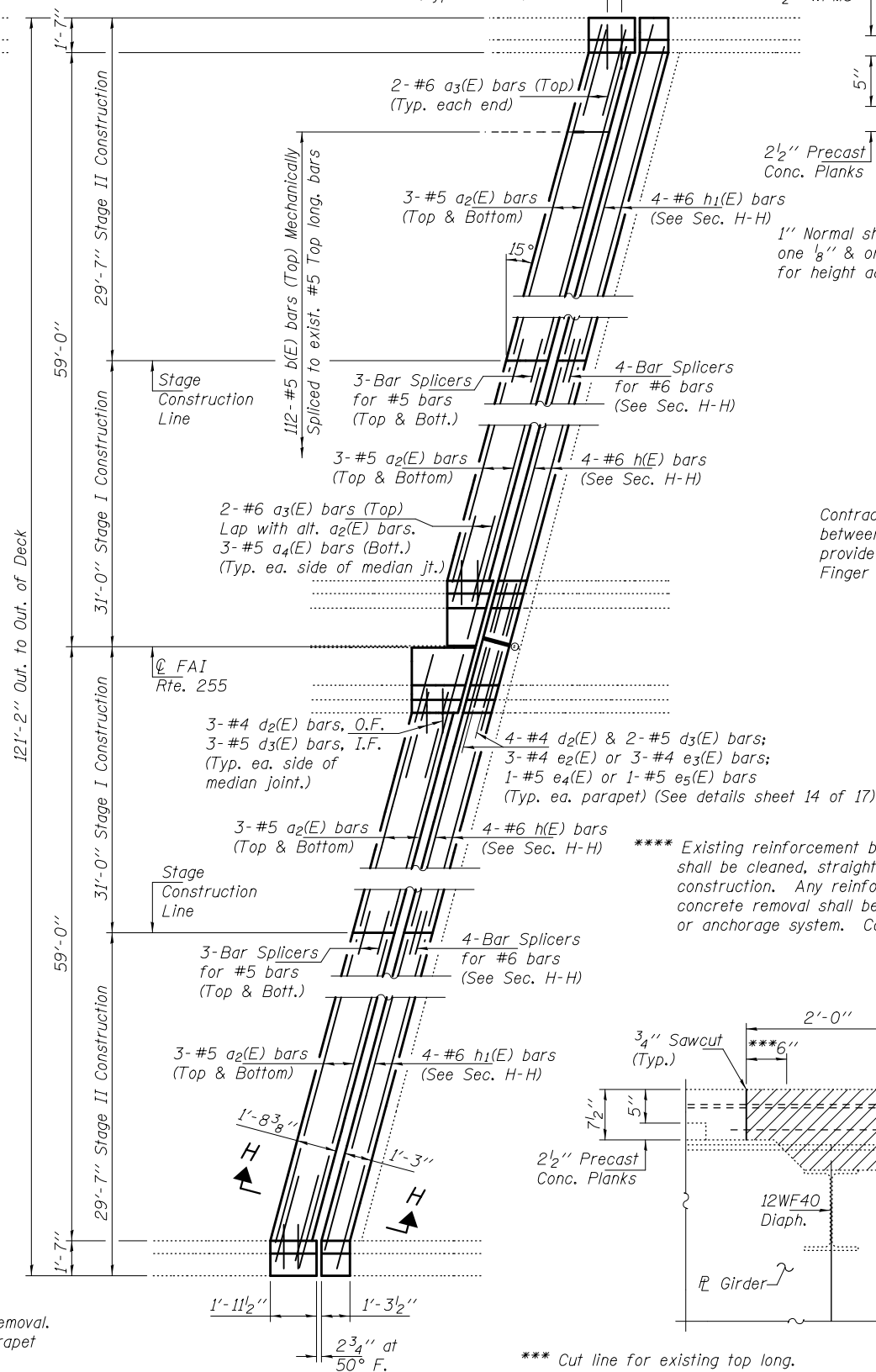


**CONCRETE REMOVAL AT N. ABUT.**

Notes:  
Hatched areas indicate concrete removal.  
For Reinforcement Details and Parapet  
Details see sheet 14 of 17.



**CONCRETE REPLACEMENT AT N. ABUT.**

\*\*\* Cut line for existing top long.  
reinforcement to be mechanically  
spliced to b(E) bars. (Typ.)

**SECTION G-G**

Contractor shall field measure the dimension  
between girder ends. Cut end of girders to  
provide 6 1/2" min. at 50°F. Cost included with  
Finger Plate Expansion Joint, 4".

**SECTION H-H**

For Trough Details  
see sheet 12 of 17.

\*\* With nut & 3" x 3" x 3/8" square  
washer at each bolt. 2" holes  
in stool flange. Field drill 7/8" holes  
in diaphragms and beam flanges.

**BILL OF MATERIAL (N. ABUT.)**

Bar	No.	Size	Length	Shape
a <sub>2</sub> (E)	24	#5	29'-6"	—
a <sub>3</sub> (E)	8	#6	4'-0"	—
a <sub>4</sub> (E)	6	#5	4'-0"	—
b(E)	112	#5	1'-10"	C
h(E)	8	#6	30'-8"	—
h <sub>1</sub> (E)	8	#6	29'-0"	—
d(E)	6	#4	5'-7"	L
d <sub>1</sub> (E)	6	#5	3'-11"	L
d <sub>2</sub> (E)	14	#4	4'-4"	L
d <sub>3</sub> (E)	10	#5	3'-9"	L
e <sub>2</sub> (E)	3	#4	5'-2"	C
e <sub>3</sub> (E)	3	#4	4'-4"	C
e <sub>4</sub> (E)	1	#5	6'-8"	C
e <sub>5</sub> (E)	1	#5	5'-10"	C
Concrete Removal		Cu. Yd.	23.7	
Concrete Superstructure		Cu. Yd.	21.9	
Bar Splicers		Each	20	
Mechanical Splicers		Each	112	
Finger Pl. Exp. Jt., 6"		Foot	116	
Reinforcement Bars, Epoxy Coated		Pound	1980	

DESIGNED ATH  
CHECKED VHV  
DRAWN Steffen  
CHECKED ATH VHV

EXAMINED  
PASSED  
ACTING ENGINEER OF STRUCTURAL SERVICES  
ACTING ENGINEER OF BRIDGES AND STRUCTURES

DATE JANUARY 22, 2014  
REVISED  
REVISED

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

NORTH ABUTMENT JOINT REMOVAL & REPLACEMENT  
SN 082-0227

SHEET NO. 11 OF 17 SHEETS

F.A.I. RTE. 255 SECTION 82-4HB-1 COUNTY ST. CLAIR TOTAL SHEETS 46 SHEET NO. 33 CONTRACT NO. 76D51 ILLINOIS FED. AID PROJECT