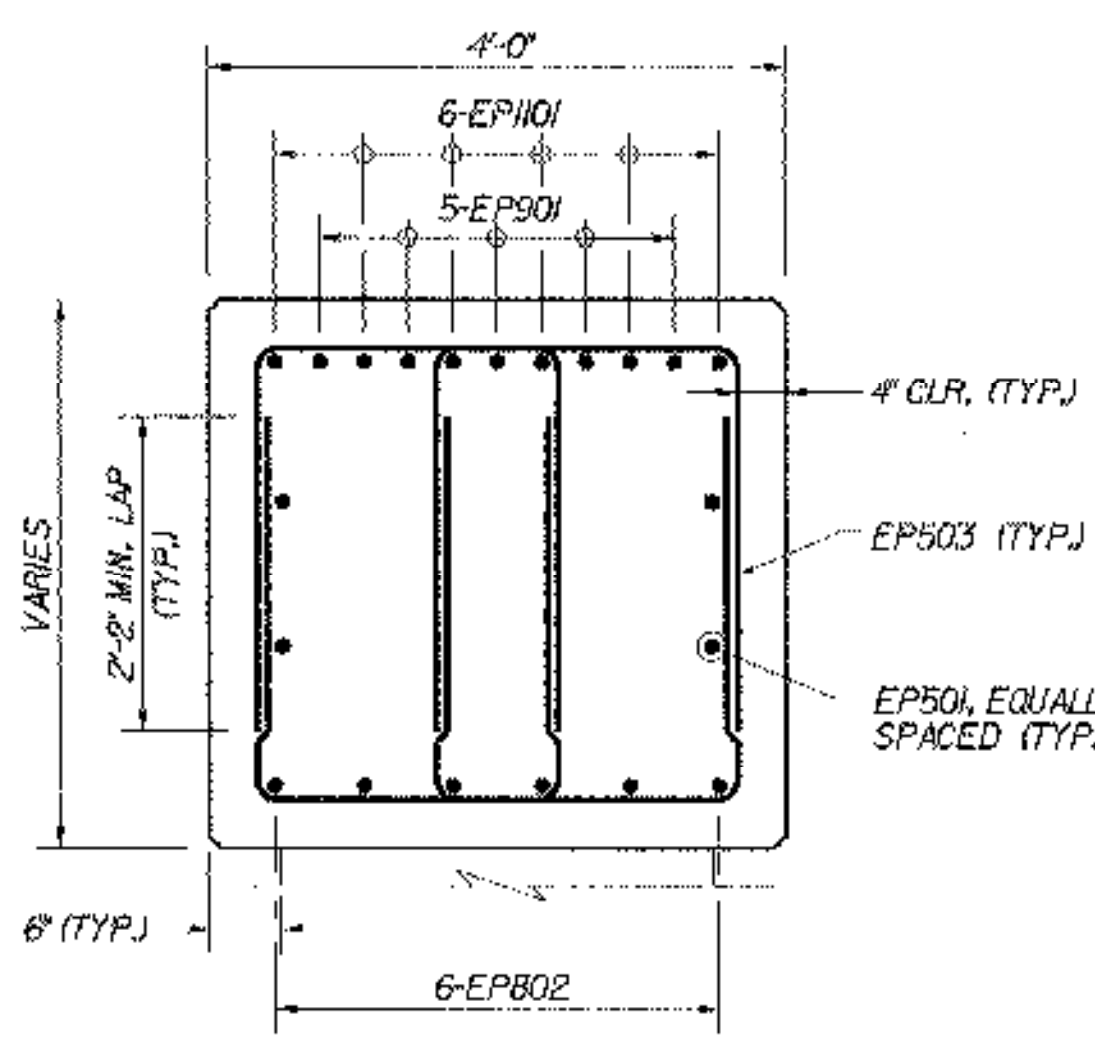
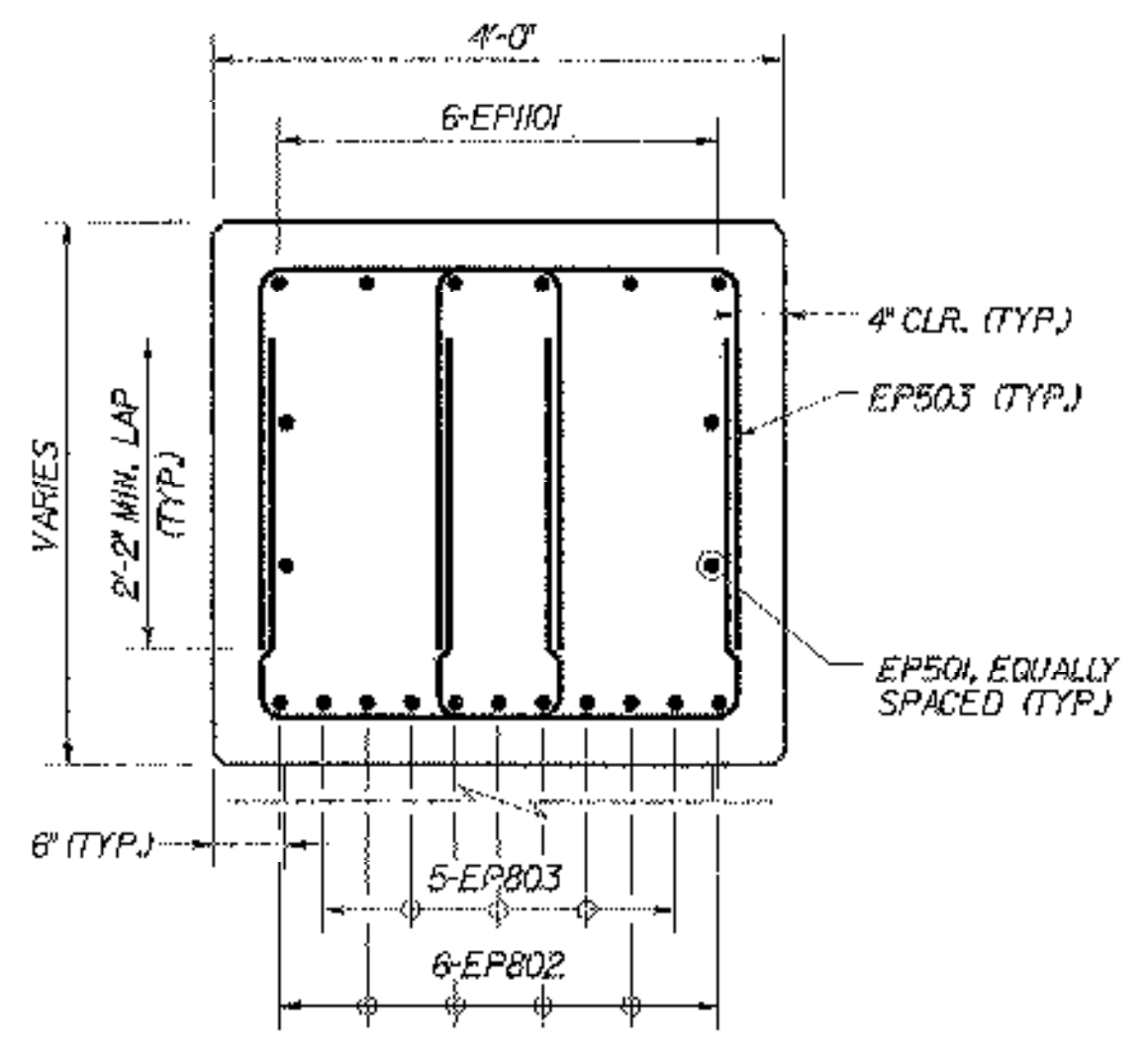


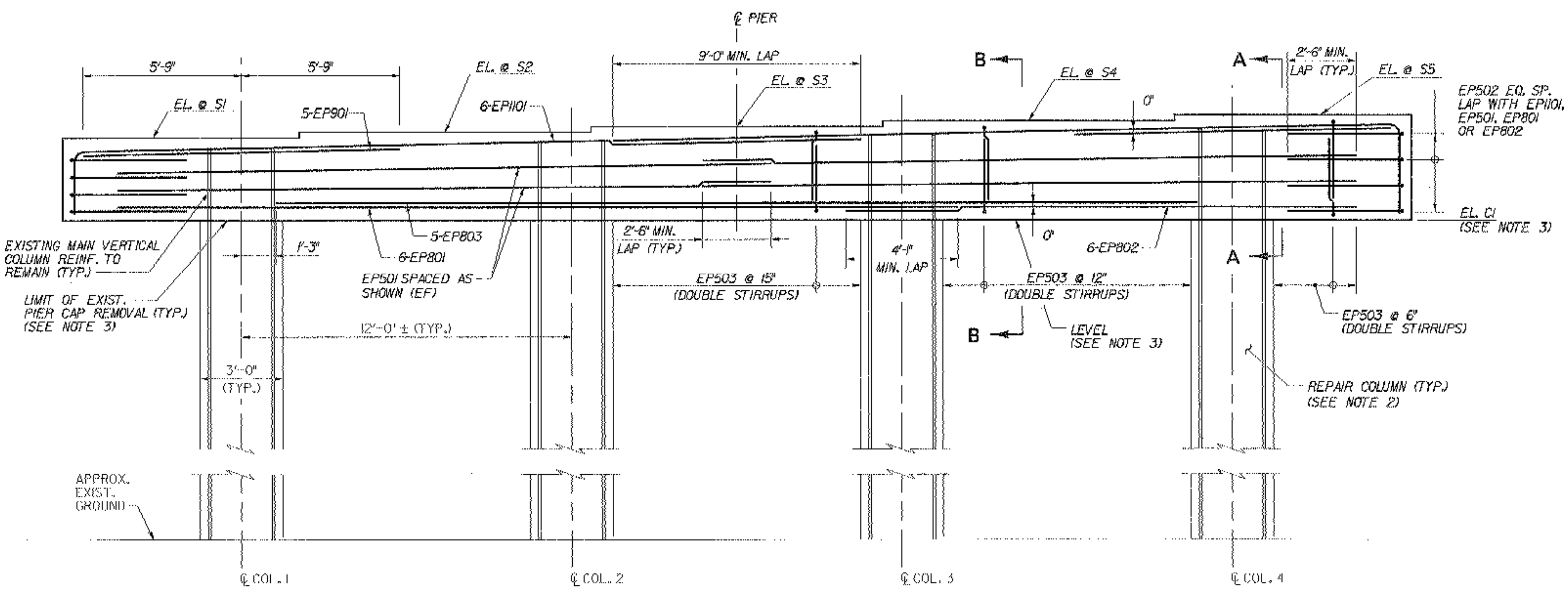
**TYPICAL SKEWED PIER CAP PLAN**  
SCALE: 3/8"=1'-0"



**SECTION A-A**  
SCALE: 3/4"=1'-0"



**SECTION B-B**  
SCALE: 3/4"=1'-0"



**TYPICAL SKEWED PIER ELEVATION**  
SCALE: 3/8"=1'-0"

**NOTES:**

- STEPS IN BRIDGE SEATS SHALL BE EQUIDISTANT BETWEEN STRINGERS.
- REPAIR EXISTING SPALLED AND DELAMINATED AREAS AND APPLY FIBER REINFORCED POLYMER WRAP, IN ACCORDANCE WITH THE DETAILS SHOWN ON SUBSTRUCTURE REPAIR DETAILS AND NOTES, BRIDGE SHEET C-45, FOR APPROXIMATE CONDITION OF EXISTING PIERS, SEE EXISTING SUBSTRUCTURE CONDITION, BRIDGE SHEETS SC-17 THROUGH SC-23.
- BOTTOM OF PIER CAP ELEVATIONS SHOWN ARE APPROXIMATE, BASED ON MATCHING THE EXISTING TOP OF COLUMN ELEVATIONS. HOWEVER, SOME MINOR REMOVAL OF EXISTING COLUMN CONCRETE MAY BE REQUIRED TO ACHIEVE LEVEL PIER CAP. LIMIT OF REMOVAL TO BE SAWCUT AS ORDERED BY THE ENGINEER. COSTS TO BE INCIDENTAL TO ITEM 529.20, "PARTIAL REMOVAL OF STRUCTURE (AT SIXX)".

BRIDGE	PIER	CL BRG. STATION	ASKEW ANGLE	DIM. "A"	DIM. "B"	DIM. "C"	DIM. "D"	PIER SEAT ELEVATIONS					BOTTOM OF PIER CAP ELEVATION
								S1	S2	S3	S4	S5	
51N	3	5+32.86	44°34'59.4"	10'-8.3/8"	10'-8.1/4"	10'-8.3/16"	10'-8.1/8"	362.53	362.61	362.69	362.77	362.84	359.03
	4	8+31.57	43°59'35.5"	10'-9.3/4"	10'-9.5/8"	10'-9.1/2"	10'-9.7/16"	363.17	363.28	363.38	363.48	363.58	358.42
51S	4	8+19.85	44°03'21.5"	10'-9.9/16"	10'-9.1/2"	10'-9.3/8"	10'-9.1/4"	362.62	362.73	362.84	362.95	363.06	358.73
	5	7+18.03	43°27'62.8"	10'-11"	10'-10.7/8"	10'-10.3/4"	10'-10.11/16"	363.19	363.30	363.42	363.53	363.65	360.36

**KEY**

- NF NEAR FACE
- FF FAR FACE
- EF EACH FACE
- ▲ REINFORCEMENT TO BE CUT TO FIT IN THE FIELD

**STATE OF VERMONT  
AGENCY OF TRANSPORTATION**

Town Of	BOLTON	Bridge No.	51N&S
Highway No.	I-89	Log Sta.	
		Surv. Sta.	
I-89 OVER U.S. ROUTE 2 AND JOINER BROOK			
<b>PIER CAP MASONRY AND REINF. (SKEWED)</b>			
Designed By	P.W. SZUSTAK	Drawn By	R.A. BOTZENHART
Checked By	Date	Bridge Design Supervisor	
	J.P. HALSTEAD 10/99	J.P. HALSTEAD Date 10/99	
PROJECT	BOLTON		PROJECT NO. IM-089-2(29)
TVGA ENGINEERING, SURVEYING, P.C.		TVGA CAD Drawing No. Sigmas Date 10/99	
Bridge Sheet No. BR57-23		Sheet 121 of 307	