

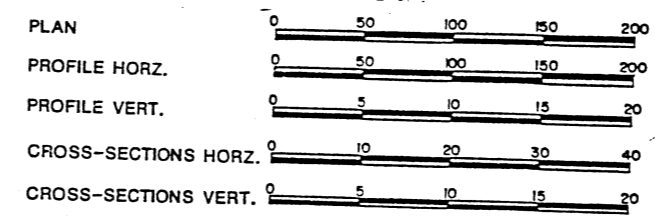
INDEX OF SHEETS

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- 82.-84. R.O.W. PLANS

97%
12-24/90

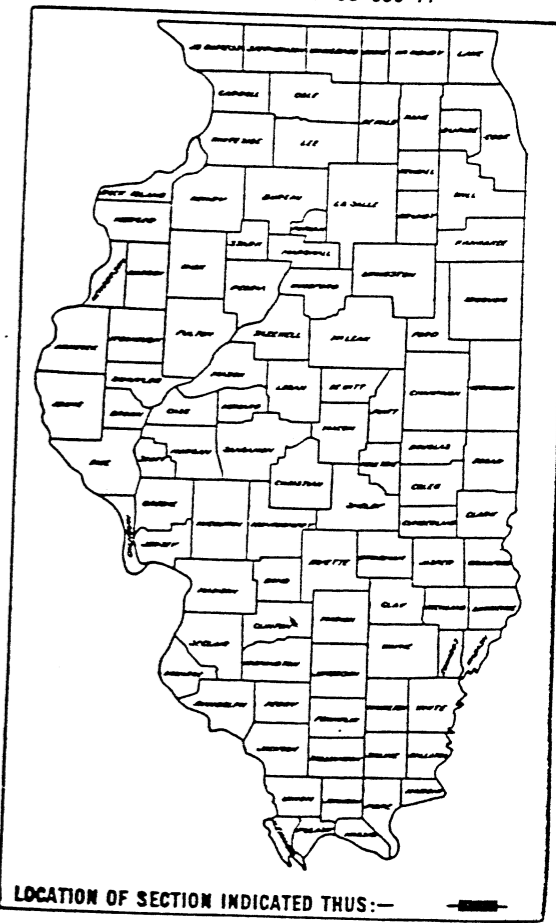
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLANS FOR PROPOSED
FEDERAL AID HIGHWAY



F.A.P. ROUTE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
805	*	CLINTON	84	1

* SECTION 127 BR & SECTION 127 BR-1 P-98-050-77



014-0010

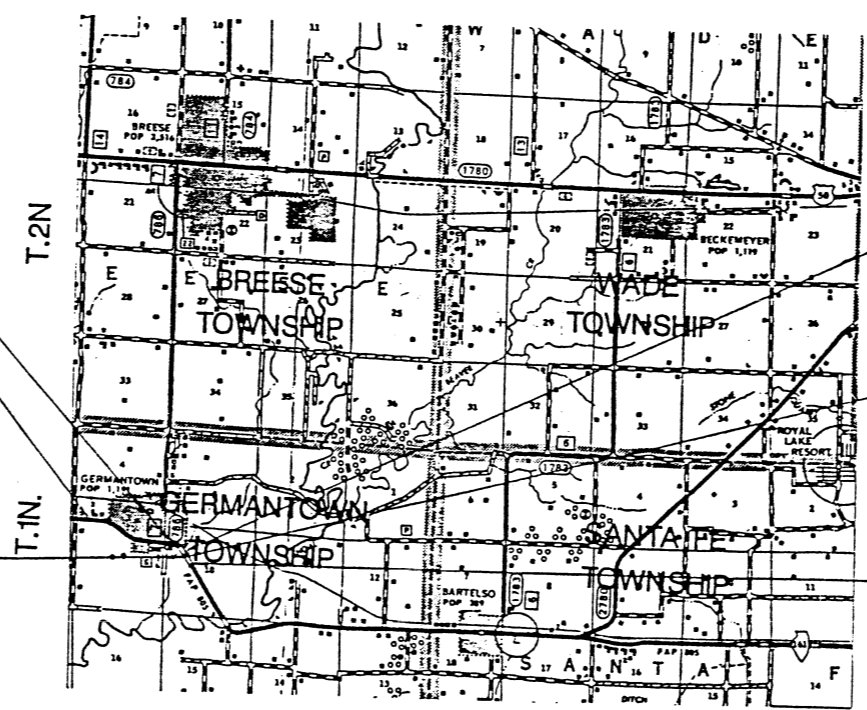
STANDARDS

1686-4	2298-7	2324-6
2113-2	2299-10	2336-4
2228-4	2300-3	2341-1
2230-15	2306-6	2382-2
2239-7	2323-11	2383-1
	2308-5	2381
		2396
		2409-1

F.A.P. ROUTE 805 (ILL. RTE.161) SECTION 127BR & 127 BR-1
PROJECT ACBHF-805 (37), CLINTON COUNTY
BRIDGE REPLACEMENT

C - 98 - 011 - 86
3rd P.M.

R.4W. R.3W.



SECTION 127 BR - BEGINS STA. 1396 + 95

SECTION 127 BR: BRIDGE REPLACEMENT

EXISTING STRUCTURE CONSISTS OF AN 8- SPAN,
@ ± 50' EACH = ± 400; 24' WIDE R.C.C. DECK WITH
CONCRETE HANDRAILS ON STEEL STRINGERS ON
PILE BENT ABUTMENTS AND PIERS.
014-0009

SECTION 127 BR- ENDS STA. 1416 + 25

NET LENGTH OF SECTION
1930 FEET = 0.366 MILES

SECTION 127 BR-1 BEGINS STA. 1416 + 25

SECTION 127 BR-1 BRIDGE REPLACEMENT

EXISTING STRUCTURE CONSISTS OF A 9 SPAN,
@ ± 50' EACH = ± 450; 24' WIDE R.C.C. DECK WITH
CONCRETE HANDRAILS ON STEEL STRINGERS ON
PILE BENT ABUTMENTS AND PIERS.
014-0010

SECTION 127 BR-1 - ENDS STA. 1435 + 50

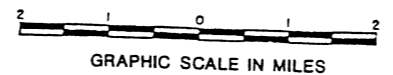
NET LENGTH OF SECTION
1925 FEET = 0.365 MILES

MICROFILMED _____
REEL NUMBER _____
AWARDED _____
RESIDENT ENGINEER _____
AS BUILT CHANGES WERE MADE
ON THE FOLLOWING SHEETS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DESIGNED: May 12, 1989
 EXAMINED: [Signature]
 DRAWN: [Signature]
 APPROVED: [Signature]
 DIRECTOR OF HIGHWAYS

LOCATION PLAN

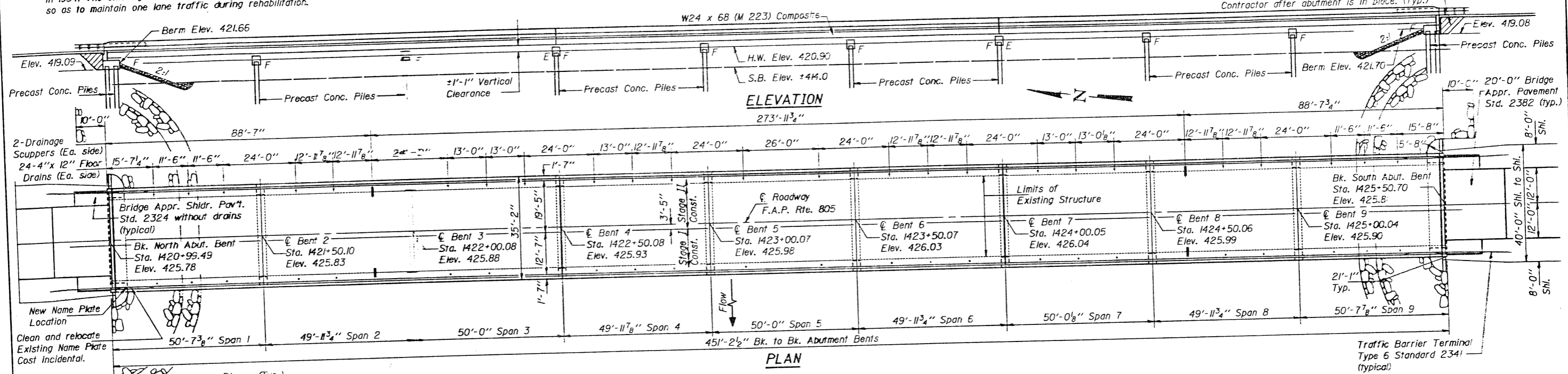


CONTRACT NO. 96105

ROUTE NO.	SECTION	PROJECT	TOTAL SHEETS	SHEET NO.
127BR-1	CLINTON	84	46	28

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

Bench Mark: Chiseled "O" on curb, N.E. corner of bridge. Elev. 426.32
Existing Structure: No. 014-0010 is 451'-2" long by 27'-6" wide. Built as S.E. Figure 161, Section 127B&C at Sta. 1423+25 in 1934. The existing substructure shall be widened in kind and a new superstructure built utilizing stage construction so as to maintain one lane traffic during rehabilitation.

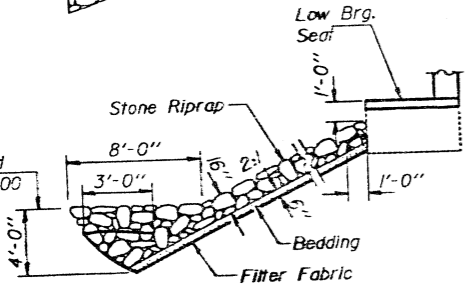


GENERAL NOTES

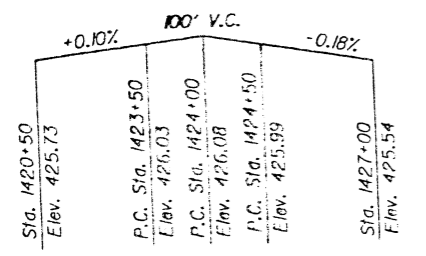
Fasteners shall be high strength bolts. Bolts $\frac{1}{2}$ " ϕ , open holes $\frac{1}{8}$ " ϕ , unless otherwise noted.
Calculated weight of Structural Steel = 51,100 lbs. (M183) and 224,450 lbs. (M223, Grade 50)
The Zinc-silicate and vinyl paint system shall be used for shop and field painting of Structural Steel. The color of the final field coat shall be Munse Standard 7.5G 4/8 Interstate Green.
Field welding of construction accessories will not be permitted to the bottom flange of beams nor to the top flange for a distance equal to one-fourth the span length each way from bents 2, 3, 5, 6, 8 and 9. Field welding in other areas will be permitted only when approved by the Engineer.
Anchor bolts shall be set before bolting diaphragms over supports.
The main load carrying member components subject to tensile stress shall conform to the Supplemental Requirements for Notch Toughness Zone 2. These components are the wide flange beams and all splice plate material of the wide flange beams.
Reinforcement bars shall conform to the requirements of AASHTO M-31, M-42 or M-53 Grade 60.
Layout of slope protection system may be varied in the field to suit ground conditions as directed by the Engineer.
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.
Expansion bolts shall consist of approved expansion anchors, providing minimum certified proof load = 4,080 lbs., and $\frac{3}{4}$ " ϕ x 12" hooked bolts.
Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of $\frac{1}{8}$ inch. Adjustment shall be made either by grinding the surface or by shimming the bearing. Two $\frac{1}{2}$ " adjusting shims, of the dimensions of the bottom bearing plate, shall be provided for each bearing in addition to all other plates or shims.
The contractor shall drive 4 precast concrete test piles in a permanent location, one each at both abutments and bents 4 and 7 as directed by the Engineer before ordering the remainder of piles.
For cantilever forming brackets, See Special Provisions.
Bridge Seat Sealer shall be applied to the seat areas of both abutments, bent 4 and bent 7. Estimated quantity = 480 Sq. Ft.

TOTAL BILL OF MATERIAL

Item	Unit	Super.	Sub.	Total
Removal of Existing Superstructures No. 2	Each	1		1
Concrete Removal	Cu. Yd.		14	14
Expansion Bolts $\frac{3}{4}$ "	Each		432	432
Structure Excavation	Cu. Yd.		56	56
Floor Drains	Each	48		48
Preformed Joint Seal $\frac{1}{4}$ "	Lin. Ft.	70		70
Class X Concrete Superstructure	Cu. Yd.	469.9		469.9
Protective Coat	Sq. Yd.	368		368
Elastomeric Bearing Assembly Type III	Each	14		14
Class X Concrete	Cu. Yd.		65.2	65.2
Structural Steel	L.S.	0.38		0.38
Stud Shear Connectors	Each	8568		8568
Reinforcement Bars, Epoxy Coated	Pound	113590	6000	119590
Precast Concrete Piles 14"	Lin. Ft.		570	570
Test Pile Precast Concrete	Each		4	4
Name Plates	Each	1		1
Stone Riprap Class A4	Sq. Yd.		555	555
Filter Fabric for use with Riprap	Sq. Yd.		565	565
Drainage Scuppers	Each	4		4
Epoxy Mortar Repair	Cu. Ft.		8.5	8.5
Neoprene Expansion Joint 4"	Lin. Ft.	68		68
Bridge Seat Sealer	L.S.		1	1



STONE RIPRAP ANCHOR DETAIL



PROFILE GRADE
F.A.P. ROUTE 805
Along E Roadway

STATION 1423+25.00
BUILT BY
STATE OF ILLINOIS
F.A. RT. 805 SEC. 127BR-1
PROJ. ACBHF-805(37)
LOADING HS20
STR. NO. 014-0010

NAME PLATE
See Standard 2113

WATERWAY INFORMATION

Drainage Area = 890 Sq. M. Low Grade Elev. 423.7 @ Sta. 1454+00						
Flood	Freq.	Opening	Na.	Head	Headwater El.	
	Yr.	C.F.S.	Exist.	H.W.E.	Exist.	Prop.
Design	50	1270	2720	420.90	.49	.49
Base	100	145	3013	421.50	.48	.48
Overtopping						
Max. Calc.	500	1250	3390	422.00	.45	.45

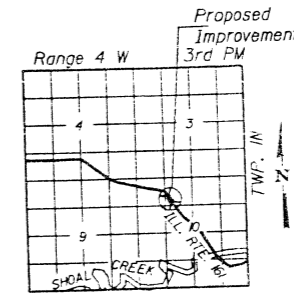
* This structure serves as an overflow structure for the Shoal Creek watershed.

DESIGN SPECIFICATIONS

1983 AASHTO, 1984, 1985 Thru 1988 Interims
LOADING HS20-44
Allow 25# / sq. ft. for future wearing surface

DESIGN STRESSES

FIELD UNITS
f'c = 3,500 psi
fy = 60,000 psi (reinf.)
fy = 50,000 psi (M223 Grade 50 Str. Steel)
fy = 36,000 psi (M183 Str. Steel)



LOCATION SKETCH

GENERAL PLAN
ILL. RTE. 161 OVER
SHOAL CREEK OVERFLOW
F.A.P. ROUTE 805
SEC. 127BR-1
CLINTON COUNTY
STATION 1423+25.00
STRUCTURE NO. 014-0010

DESIGNED	Checked	DATE
CHECKED	Checked	1989
DRAWN	Checked	
CHECKED	Checked	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	SHEET NO.	SHEET NO.
			49	28
28 SHEETS				

☪ BEAM 1

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. N. Abut. Bent	142099.490	-15.667	425.516	425.516
☪ Brg. N. Abut.	142101.782	-15.667	425.518	425.518
A	142111.782	-15.667	425.528	425.571
B	142121.782	-15.667	425.538	425.599
C	142131.782	-15.667	425.548	425.600
D	142141.782	-15.667	425.558	425.584
☪ Bent 2	142150.105	-15.667	425.566	425.566
E	142160.105	-15.667	425.576	425.578
F	142170.105	-15.667	425.586	425.593
G	142180.105	-15.667	425.596	425.603
H	142190.105	-15.667	425.606	425.608
☪ Bent 3	142200.084	-15.667	425.616	425.616
I	142210.084	-15.667	425.626	425.656
J	142220.084	-15.667	425.636	425.692
K	142230.084	-15.667	425.646	425.706
L	142240.084	-15.667	425.656	425.695
☪ N. Brg. Bent 4	142249.334	-15.667	425.666	425.666
☪ Bent 4	142250.084	-15.667	425.666	425.666
☪ S. Brg. Bent 4	142250.834	-15.667	425.667	425.667
M	142260.834	-15.667	425.677	425.719
N	142270.834	-15.667	425.687	425.748
O	142280.834	-15.667	425.697	425.751
P	142290.834	-15.667	425.707	425.735
☪ Bent 5	142300.073	-15.667	425.716	425.716
Q	142310.073	-15.667	425.726	425.728
R	142320.073	-15.667	425.736	425.743
S	142330.073	-15.667	425.746	425.753
T	142340.073	-15.667	425.756	425.758
☪ Bent 6	142350.073	-15.667	425.766	425.766
U	142360.073	-15.667	425.775	425.805
V	142370.073	-15.667	425.785	425.836
W	142380.073	-15.667	425.794	425.844
X	142390.073	-15.667	425.804	425.823
☪ N. Brg. Bent 7	142399.303	-15.667	425.822	425.782
☪ Bent 7	142400.053	-15.667	425.781	425.781
☪ S. Brg. Bent 7	142400.803	-15.667	425.781	425.781
Y	142410.803	-15.667	425.775	425.817
Z	142420.803	-15.667	425.767	425.828
AI	142430.803	-15.667	425.756	425.809
BI	142440.803	-15.667	425.742	425.769
☪ Bent 8	142450.063	-15.667	425.726	425.726
CI	142460.063	-15.667	425.708	425.710
DI	142470.063	-15.667	425.690	425.699
EI	142480.063	-15.667	425.672	425.679
FI	142490.063	-15.667	425.654	425.656
☪ Bent 9	142500.042	-15.667	425.636	425.636
GI	142510.042	-15.667	425.618	425.649
HI	142520.042	-15.667	425.600	425.656
II	142530.042	-15.667	425.582	425.642
JI	142540.042	-15.667	425.564	425.600
☪ Brg. S. Abut.	142548.407	-15.667	425.549	425.549
Bk. S. Abut. Bent	142550.699	-15.667	425.545	425.545

☪ BEAM 2

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. N. Abut. Bent	142099.490	-12.000	425.592	425.592
☪ Brg. N. Abut.	142101.782	-12.000	425.594	425.594
A	142111.782	-12.000	425.604	425.647
B	142121.782	-12.000	425.614	425.676
C	142131.782	-12.000	425.624	425.677
D	142141.782	-12.000	425.634	425.660
☪ Bent 2	142150.105	-12.000	425.643	425.643
E	142160.105	-12.000	425.653	425.654
F	142170.105	-12.000	425.663	425.669
G	142180.105	-12.000	425.673	425.679
H	142190.105	-12.000	425.683	425.684
☪ Bent 3	142200.084	-12.000	425.693	425.693
I	142210.084	-12.000	425.703	425.733
J	142220.084	-12.000	425.713	425.768
K	142230.084	-12.000	425.723	425.783
L	142240.084	-12.000	425.733	425.772
☪ N. Brg. Bent 4	142249.334	-12.000	425.742	425.742
☪ Bent 4	142250.084	-12.000	425.743	425.743
☪ S. Brg. Bent 4	142250.834	-12.000	425.743	425.743
M	142260.834	-12.000	425.753	425.796
N	142270.834	-12.000	425.763	425.824
O	142280.834	-12.000	425.773	425.827
P	142290.834	-12.000	425.783	425.811
☪ Bent 5	142300.073	-12.000	425.793	425.793
Q	142310.073	-12.000	425.803	425.804
R	142320.073	-12.000	425.813	425.819
S	142330.073	-12.000	425.823	425.829
T	142340.073	-12.000	425.833	425.834
☪ Bent 6	142350.073	-12.000	425.843	425.843
U	142360.073	-12.000	425.851	425.881
V	142370.073	-12.000	425.857	425.912
W	142380.073	-12.000	425.860	425.920
X	142390.073	-12.000	425.860	425.899
☪ N. Brg. Bent 7	142399.303	-12.000	425.858	425.858
☪ Bent 7	142400.053	-12.000	425.857	425.857
☪ S. Brg. Bent 7	142400.803	-12.000	425.857	425.857
Y	142410.803	-12.000	425.852	425.894
Z	142420.803	-12.000	425.843	425.904
AI	142430.803	-12.000	425.832	425.886
BI	142440.803	-12.000	425.818	425.846
☪ Bent 8	142450.063	-12.000	425.802	425.802
CI	142460.063	-12.000	425.784	425.786
DI	142470.063	-12.000	425.766	425.773
EI	142480.063	-12.000	425.748	425.755
FI	142490.063	-12.000	425.730	425.732
☪ Bent 9	142500.042	-12.000	425.712	425.712
GI	142510.042	-12.000	425.694	425.725
HI	142520.042	-12.000	425.676	425.733
II	142530.042	-12.000	425.658	425.718
JI	142540.042	-12.000	425.640	425.676
☪ Brg. S. Abut.	142548.407	-12.000	425.625	425.625
Bk. S. Abut. Bent	142550.699	-12.000	425.621	425.621

☪ BEAM 3

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. N. Abut. Bent	142099.490	-6.000	425.686	425.686
☪ Brg. N. Abut.	142101.782	-6.000	425.688	425.688
A	142111.782	-6.000	425.698	425.741
B	142121.782	-6.000	425.708	425.769
C	142131.782	-6.000	425.718	425.770
D	142141.782	-6.000	425.728	425.754
☪ Bent 2	142150.105	-6.000	425.736	425.736
E	142160.105	-6.000	425.746	425.748
F	142170.105	-6.000	425.756	425.763
G	142180.105	-6.000	425.766	425.773
H	142190.105	-6.000	425.776	425.778
☪ Bent 3	142200.084	-6.000	425.786	425.786
I	142210.084	-6.000	425.796	425.826
J	142220.084	-6.000	425.806	425.862
K	142230.084	-6.000	425.816	425.876
L	142240.084	-6.000	425.826	425.865
☪ N. Brg. Bent 4	142249.334	-6.000	425.836	425.836
☪ Bent 4	142250.084	-6.000	425.836	425.836
☪ S. Brg. Bent 4	142250.834	-6.000	425.837	425.837
M	142260.834	-6.000	425.847	425.889
N	142270.834	-6.000	425.857	425.918
O	142280.834	-6.000	425.867	425.921
P	142290.834	-6.000	425.877	425.905
☪ Bent 5	142300.073	-6.000	425.886	425.886
Q	142310.073	-6.000	425.896	425.898
R	142320.073	-6.000	425.906	425.913
S	142330.073	-6.000	425.916	425.923
T	142340.073	-6.000	425.926	425.928
☪ Bent 6	142350.073	-6.000	425.936	425.936
U	142360.073	-6.000	425.945	425.975
V	142370.073	-6.000	425.951	426.006
W	142380.073	-6.000	425.954	426.014
X	142390.073	-6.000	425.954	425.993
☪ N. Brg. Bent 7	142399.303	-6.000	425.952	425.952
☪ Bent 7	142400.053	-6.000	425.951	425.951
☪ S. Brg. Bent 7	142400.803	-6.000	425.951	425.951
Y	142410.803	-6.000	425.945	425.987
Z	142420.803	-6.000	425.937	425.998
AI	142430.803	-6.000	425.926	425.979
BI	142440.803	-6.000	425.912	425.940
☪ Bent 8	142450.063	-6.000	425.896	425.896
CI	142460.063	-6.000	425.878	425.880
DI	142470.063	-6.000	425.860	425.867
EI	142480.063	-6.000	425.842	425.849
FI	142490.063	-6.000	425.824	425.826
☪ Bent 9	142500.042	-6.000	425.806	425.806
GI	142510.042	-6.000	425.788	425.819
HI	142520.042	-6.000	425.770	425.826
II	142530.042	-6.000	425.752	425.812
JI	142540.042	-6.000	425.734	425.770
☪ Brg. S. Abut.	142548.407	-6.000	425.719	425.719
Bk. S. Abut. Bent	142550.699	-6.000	425.715	425.715

☪ BEAM 4 AND ☪ ROADWAY

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. N. Abut. Bent	142099.490	0.000	425.779	425.779
☪ Brg. N. Abut.	142101.782	0.000	425.782	425.782
A	142111.782	0.000	425.792	425.835
B	142121.782	0.000	425.802	425.863
C	142131.782	0.000	425.812	425.864
D	142141.782	0.000	425.822	425.847
☪ Bent 2	142150.105	0.000	425.830	425.830
E	142160.105	0.000	425.840	425.842
F	142170.105	0.000	425.850	425.857
G	142180.105	0.000	425.860	425.867
H	142190.105	0.000	425.870	425.872
☪ Bent 3	142200.084	0.000	425.880	425.880
I	142210.084	0.000	425.890	425.920
J	142220.084	0.000	425.900	425.955
K	142230.084	0.000	425.910	425.970
L	142240.084	0.000	425.920	425.959
☪ N. Brg. Bent 4	142249.334	0.000	425.929	425.929
☪ Bent 4	142250.084	0.000	425.930	425.930
☪ S. Brg. Bent 4	142250.834	0.000	425.931	425.931
M	142260.834	0.000	425.941	425.983
N	142270.834	0.000	425.951	426.012
O	142280.834	0.000	425.961	426.014
P	142290.834	0.000	425.971	425.999
☪ Bent 5	142300.073	0.000	425.980	425.980
Q	142310.073	0.000	425.990	425.992
R	142320.073	0.000	426.000	426.007
S	142330.073	0.000	426.010	426.017
T	142340.073	0.000	426.020	426.022
☪ Bent 6	142350.073	0.000	426.030	426.030
U	142360.073	0.000	426.039	426.069
V	142370.073	0.000	426.044	426.100
W	142380.073	0.000	426.047	426.107
X	142390.073	0.000	426.048	426.087
☪ N. Brg. Bent 7	142399.303	0.000	426.045	426.045
☪ Bent 7	142400.053	0.000	426.045	426.045
☪ S. Brg. Bent 7	142400.803	0.000	42	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGE CONSTRUCTION LINE

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. N. Abut. Bent	142099.490	3.417	425.726	425.726
€ Brg. N. Abut.	142101.782	3.417	425.728	425.728
A	142111.782	3.417	425.738	425.781
B	142121.782	3.417	425.748	425.810
C	142131.782	3.417	425.758	425.811
D	142141.782	3.417	425.768	425.794
€ Bent 2	142150.105	3.417	425.777	425.777
E	142160.105	3.417	425.787	425.788
F	142170.105	3.417	425.797	425.803
G	142180.105	3.417	425.807	425.813
H	142190.105	3.417	425.817	425.818
€ Bent 3	142200.084	3.417	425.827	425.827
I	142210.084	3.417	425.837	425.867
J	142220.084	3.417	425.847	425.902
K	142230.084	3.417	425.857	425.917
L	142240.084	3.417	425.867	425.906
€ N. Brg. Bent 4	142249.334	3.417	425.876	425.876
€ Bent 4	142250.084	3.417	425.877	425.877
€ S. Brg. Bent 4	142250.834	3.417	425.877	425.877
M	142260.834	3.417	425.887	425.930
N	142270.834	3.417	425.897	425.958
O	142280.834	3.417	425.907	425.961
P	142290.834	3.417	425.917	425.945
€ Bent 5	142300.073	3.417	425.927	425.927
Q	142310.073	3.417	425.937	425.938
R	142320.073	3.417	425.947	425.953
S	142330.073	3.417	425.957	425.963
T	142340.073	3.417	425.967	425.968
€ Bent 6	142350.073	3.417	425.977	425.977
U	142360.073	3.417	425.985	426.015
V	142370.073	3.417	425.991	426.046
W	142380.073	3.417	425.994	426.054
X	142390.073	3.417	425.994	426.033
€ N. Brg. Bent 7	142399.303	3.417	425.992	425.992
€ Bent 7	142400.053	3.417	425.992	425.992
€ S. Brg. Bent 7	142400.803	3.417	425.991	425.991
Y	142410.803	3.417	425.986	426.028
Z	142420.803	3.417	425.977	426.038
AI	142430.803	3.417	425.966	426.020
BI	142440.803	3.417	425.952	425.980
€ Bent 8	142450.063	3.417	425.937	425.937
CI	142460.063	3.417	425.919	425.920
DI	142470.063	3.417	425.901	425.907
EI	142480.063	3.417	425.883	425.889
FI	142490.063	3.417	425.865	425.866
€ Bent 9	142500.042	3.417	425.847	425.847
GI	142510.042	3.417	425.829	425.859
HI	142520.042	3.417	425.811	425.867
II	142530.042	3.417	425.793	425.852
JI	142540.042	3.417	425.775	425.810
€ Brg. S. Abut.	142548.407	3.417	425.759	425.759
Bk. S. Abut. Bent	142550.699	3.417	425.755	425.755

€ BEAM 5

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. N. Abut. Bent	142099.490	6.000	425.686	425.686
€ Brg. N. Abut.	142101.782	6.000	425.688	425.688
A	142111.782	6.000	425.698	425.741
B	142121.782	6.000	425.708	425.769
C	142131.782	6.000	425.718	425.770
D	142141.782	6.000	425.728	425.754
€ Bent 2	142150.105	6.000	425.736	425.736
E	142160.105	6.000	425.746	425.748
F	142170.105	6.000	425.756	425.763
G	142180.105	6.000	425.766	425.773
H	142190.105	6.000	425.776	425.778
€ Bent 3	142200.084	6.000	425.786	425.786
I	142210.084	6.000	425.796	425.826
J	142220.084	6.000	425.806	425.862
K	142230.084	6.000	425.816	425.876
L	142240.084	6.000	425.826	425.865
€ N. Brg. Bent 4	142249.334	6.000	425.836	425.836
€ Bent 4	142250.084	6.000	425.836	425.836
€ S. Brg. Bent 4	142250.834	6.000	425.837	425.837
M	142260.834	6.000	425.847	425.889
N	142270.834	6.000	425.857	425.918
O	142280.834	6.000	425.867	425.921
P	142290.834	6.000	425.877	425.905
€ Bent 5	142300.073	6.000	425.886	425.886
Q	142310.073	6.000	425.896	425.898
R	142320.073	6.000	425.906	425.913
S	142330.073	6.000	425.916	425.923
T	142340.073	6.000	425.926	425.928
€ Bent 6	142350.073	6.000	425.936	425.936
U	142360.073	6.000	425.945	425.975
V	142370.073	6.000	425.951	426.006
W	142380.073	6.000	425.954	426.014
X	142390.073	6.000	425.954	425.993
€ N. Brg. Bent 7	142399.303	6.000	425.952	425.952
€ Bent 7	142400.053	6.000	425.951	425.951
€ S. Brg. Bent 7	142400.803	6.000	425.951	425.951
Y	142410.803	6.000	425.945	425.987
Z	142420.803	6.000	425.937	425.998
AI	142430.803	6.000	425.926	425.979
BI	142440.803	6.000	425.912	425.940
€ Bent 8	142450.063	6.000	425.896	425.896
CI	142460.063	6.000	425.878	425.880
DI	142470.063	6.000	425.860	425.867
EI	142480.063	6.000	425.842	425.849
FI	142490.063	6.000	425.824	425.826
€ Bent 9	142500.042	6.000	425.806	425.806
GI	142510.042	6.000	425.788	425.819
HI	142520.042	6.000	425.770	425.826
II	142530.042	6.000	425.752	425.812
JI	142540.042	6.000	425.734	425.770
€ Brg. S. Abut.	142548.407	6.000	425.719	425.719
Bk. S. Abut. Bent	142550.699	6.000	425.715	425.715

€ BEAM 6

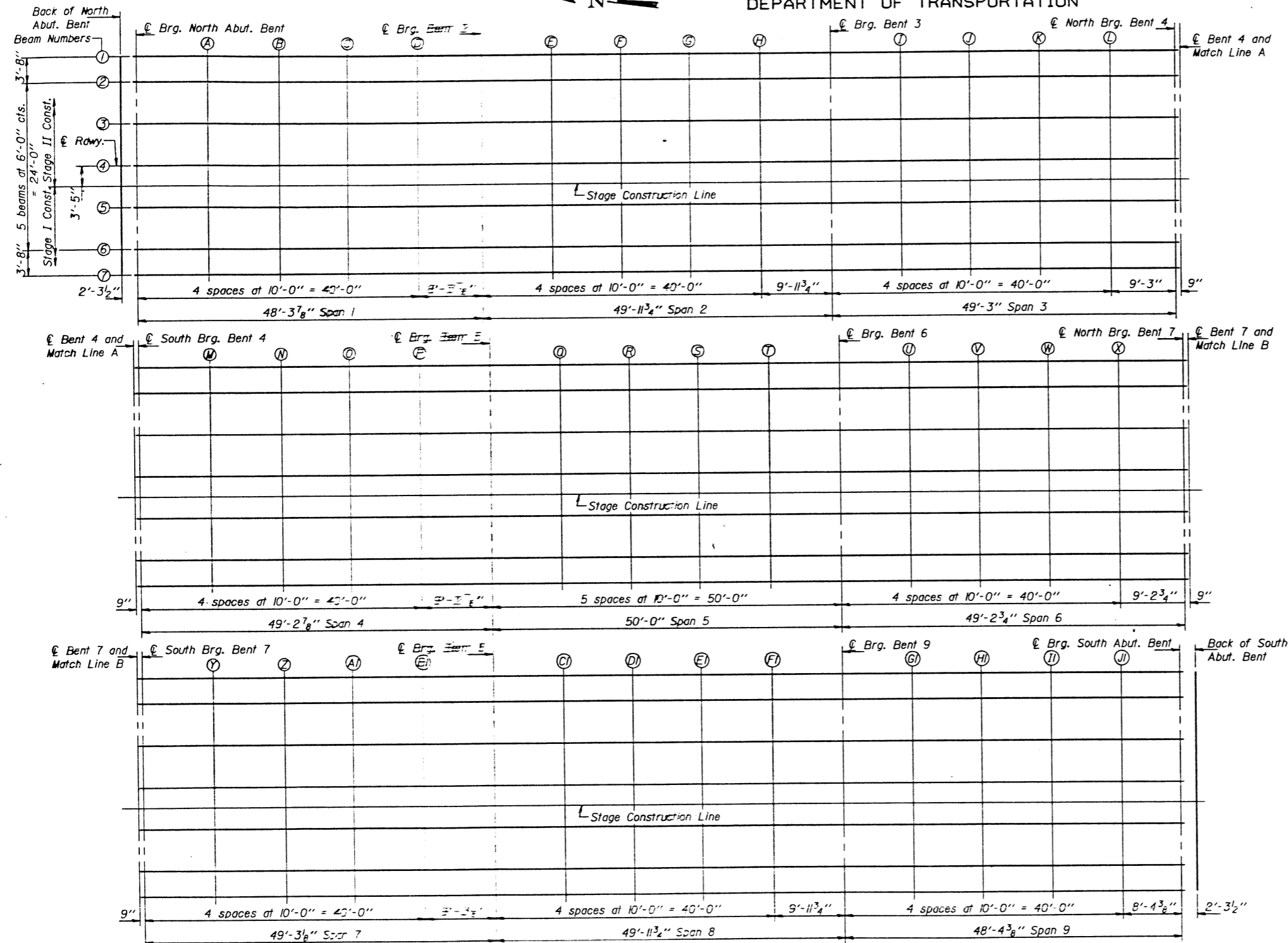
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. N. Abut. Bent	142099.490	12.000	425.592	425.592
€ Brg. N. Abut.	142101.782	12.000	425.594	425.594
A	142111.782	12.000	425.604	425.647
B	142121.782	12.000	425.614	425.676
C	142131.782	12.000	425.624	425.677
D	142141.782	12.000	425.634	425.665
€ Bent 2	142150.105	12.000	425.643	425.643
E	142160.105	12.000	425.653	425.654
F	142170.105	12.000	425.663	425.669
G	142180.105	12.000	425.673	425.679
H	142190.105	12.000	425.683	425.684
€ Bent 3	142200.084	12.000	425.693	425.693
I	142210.084	12.000	425.703	425.733
J	142220.084	12.000	425.713	425.762
K	142230.084	12.000	425.723	425.783
L	142240.084	12.000	425.733	425.772
€ N. Brg. Bent 4	142249.334	12.000	425.742	425.742
€ Bent 4	142250.084	12.000	425.743	425.743
€ S. Brg. Bent 4	142250.834	12.000	425.743	425.743
M	142260.834	12.000	425.753	425.796
N	142270.834	12.000	425.763	425.824
O	142280.834	12.000	425.773	425.827
P	142290.834	12.000	425.783	425.831
€ Bent 5	142300.073	12.000	425.793	425.793
Q	142310.073	12.000	425.803	425.804
R	142320.073	12.000	425.813	425.815
S	142330.073	12.000	425.823	425.823
T	142340.073	12.000	425.833	425.834
€ Bent 6	142350.073	12.000	425.843	425.843
U	142360.073	12.000	425.851	425.88
V	142370.073	12.000	425.857	425.912
W	142380.073	12.000	425.860	425.925
X	142390.073	12.000	425.860	425.895
€ N. Brg. Bent 7	142399.303	12.000	425.858	425.858
€ Bent 7	142400.053	12.000	425.857	425.857
€ S. Brg. Bent 7	142400.803	12.000	425.857	425.857
Y	142410.803	12.000	425.852	425.854
Z	142420.803	12.000	425.843	425.854
AI	142430.803	12.000	425.832	425.855
BI	142440.803	12.000	425.818	425.845
€ Bent 8	142450.063	12.000	425.802	425.802
CI	142460.063	12.000	425.784	425.785
DI	142470.063	12.000	425.766	425.773
EI	142480.063	12.000	425.748	425.755
FI	142490.063	12.000	425.730	425.732
€ Bent 9	142500.042	12.000	425.712	425.712
GI	142510.042	12.000	425.694	425.725
HI	142520.042	12.000	425.676	425.732
II	142530.042	12.000	425.658	425.718
JI	142540.042	12.000	425.640	425.676
€ Brg. S. Abut.	142548.407	12.000	425.625	425.625
Bk. S. Abut. Bent	142550.699	12.000	425.621	425.621

€ BEAM 7

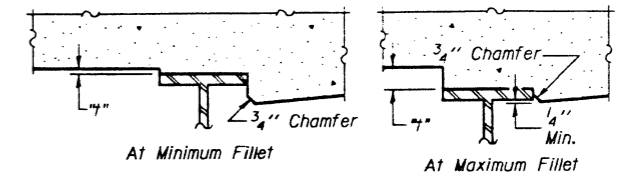
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. N. Abut. Bent	142099.490	15.667	425.516	425.516
€ Brg. N. Abut.	142101.782	15.667	425.518	425.518
A	142111.782	15.667	425.528	425.571
B	142121.782	15.667	425.538	425.599
C	142131.782	15.667	425.548	425.600
D	142141.782	15.667	425.558	425.584
€ Bent 2	142150.105	15.667	425.566	425.566
E	142160.105	15.667	425.576	425.578
F	142170.105	15.667	425.586	425.593
G	142180.105	15.667	425.596	425.603
H	142190.105	15.667	425.606	425.608
€ Bent 3	142200.084	15.667	425.616	425.616
I	142			

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	QUANTITY	DATE	SHEET NO.
				51
SHEET NO. 4				28 SHEETS

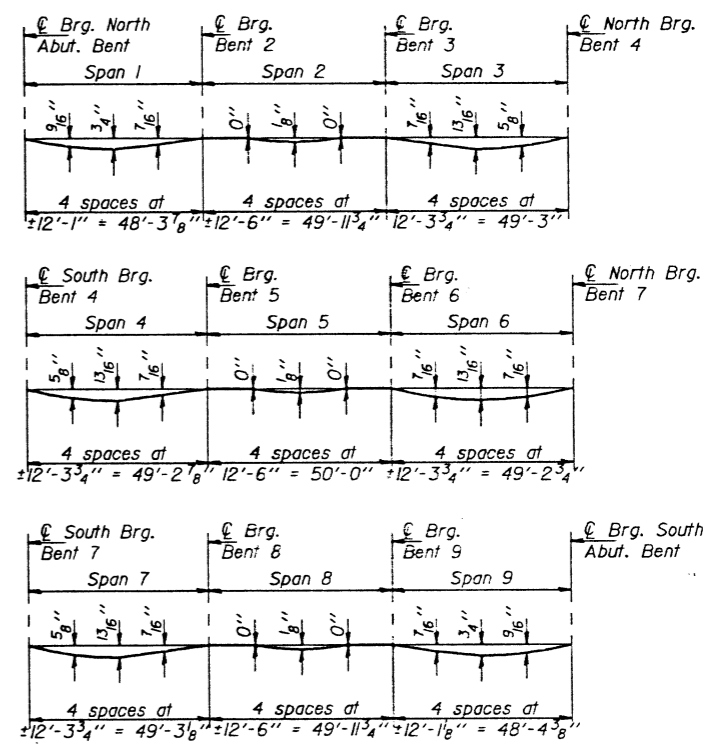


LOCATION SKETCH



To determine "t": After all structural steel has been erected, elevations of the top flanges of the beams shall be taken at intervals shown below. These elevations subtracted from the "Theoretical Grade Elevations Adjusted for Dead Load Deflection" shown below, minus slab thickness, equals the fillet heights "t" above top flange of beams.

FILLET HEIGHTS



DEAD LOAD DEFLECTION DIAGRAMS

(Includes weight of concrete only)
Note: The above deflections are not to be used in the field if the engineer is working from the grade elevations adjusted for dead load deflections as shown below.

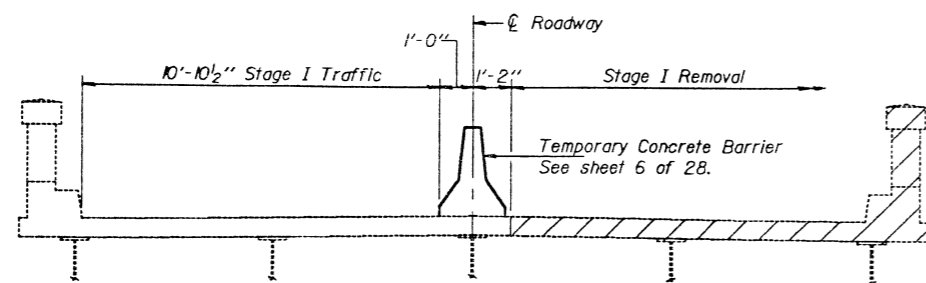
DESIGNED	<i>Lee Sheng Hwang</i>	EXAMINED	<i>Proj. O. Kaspar</i>
CHECKED	<i>H. O. ...</i>	PASSED	<i>James T. ...</i>
DRAWN	Joe Sutherland	APPROVED	<i>James T. ...</i>
CHECKED	N. A. LSH		

May 25 1989

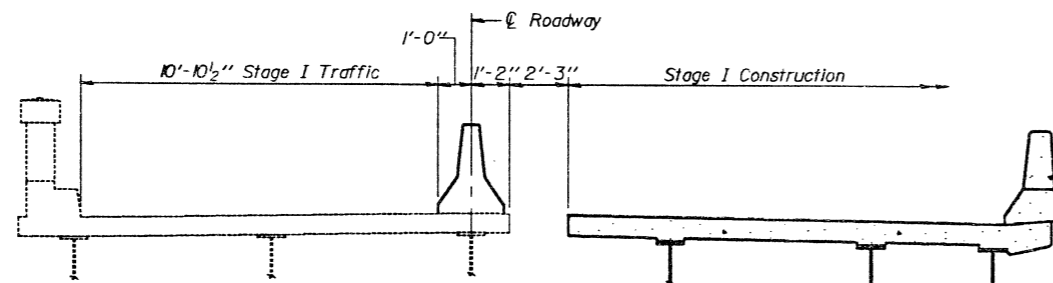
TOP OF SLAB ELEVATIONS
F.A.P. RT. 805 SEC. 127BR-1
CLINTON COUNTY
STATION 1423+25

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

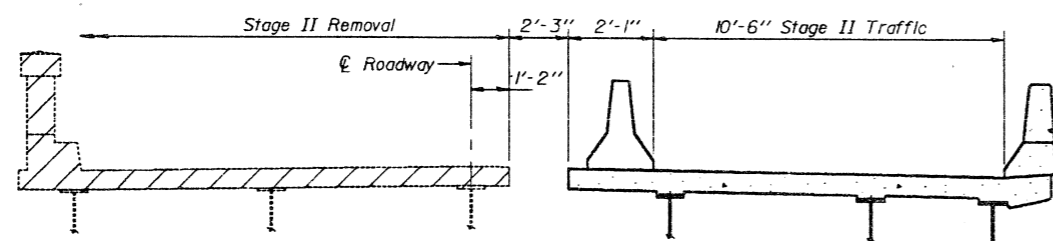
ROUTE NO.	SECTION	QUANTITY	UNIT	SHEET
				52
F.A.P. RT. 805 SEC. 127BR-1				28 SHEETS
PREL. ROAD DEPT. NO. 7		BLISSER PREL. PROJ. NO. 1		



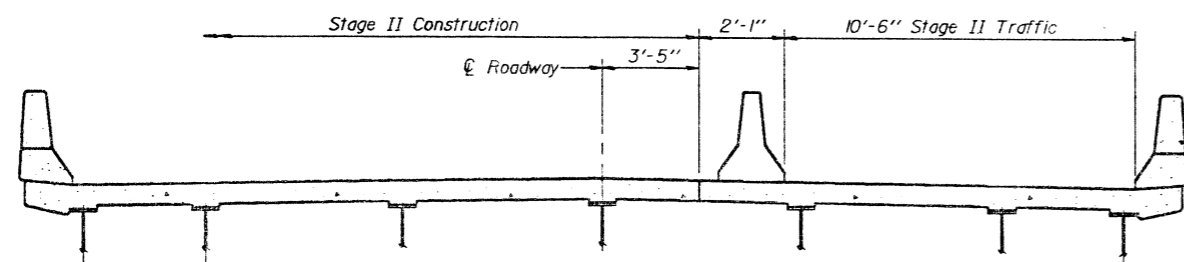
STAGE I REMOVAL
(Looking South)



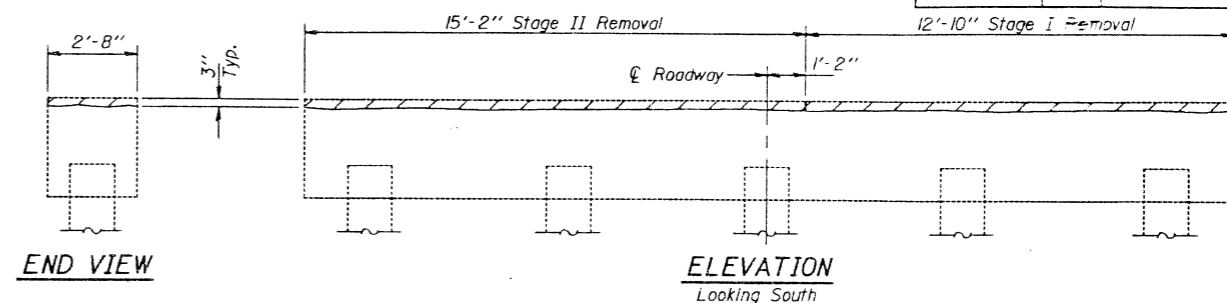
STAGE I CONSTRUCTION
(Looking South)



STAGE II REMOVAL
(Looking South)



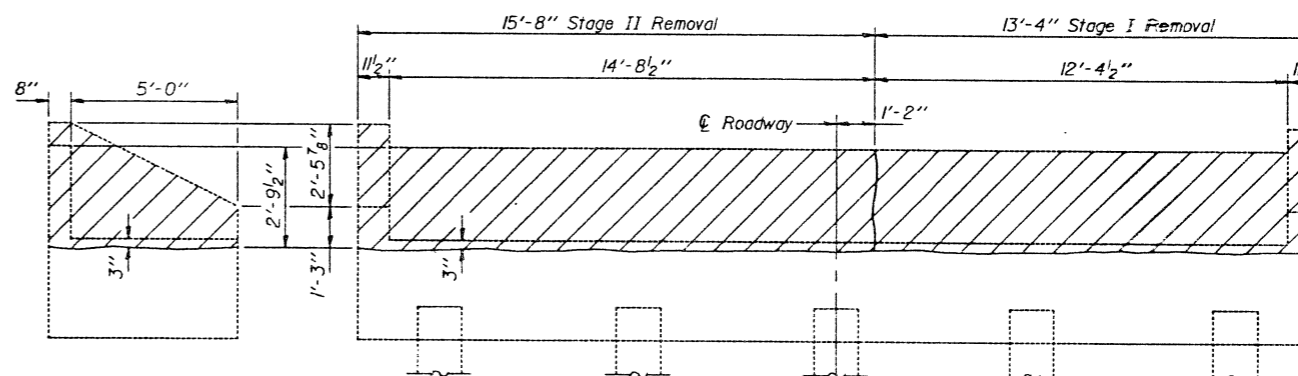
STAGE II CONSTRUCTION
(Looking South)



END VIEW

ELEVATION
Looking South

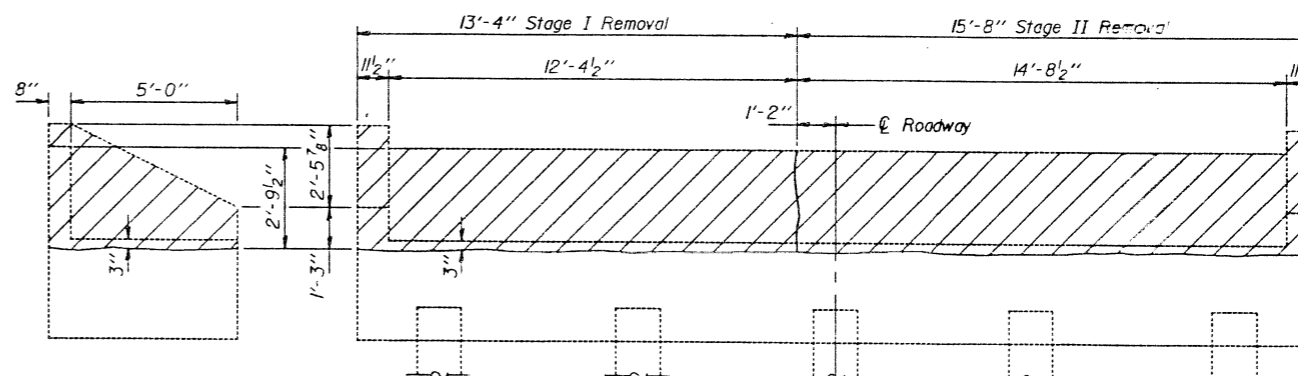
STAGE REMOVAL BENTS 2 THRU 9
For Stage Construction see sheets 19 thru 26 of 28.



END VIEW

ELEVATION
Looking South

STAGE REMOVAL SOUTH ABUTMENT BENT
For Stage Construction see sheet 18 of 28.



END VIEW

ELEVATION
Looking North

STAGE REMOVAL NORTH ABUTMENT BENT
For Stage Construction see sheet 17 of 28.

BILL OF MATERIAL
FOR BENTS 2 THRU 9

Item	Unit	Total
Concrete Removal	Cu. Yd.	5.5

BILL OF MATERIAL
FOR BOTH ABUTMENTS

Item	Unit	Total
Concrete Removal	Cu. Yd.	8.5

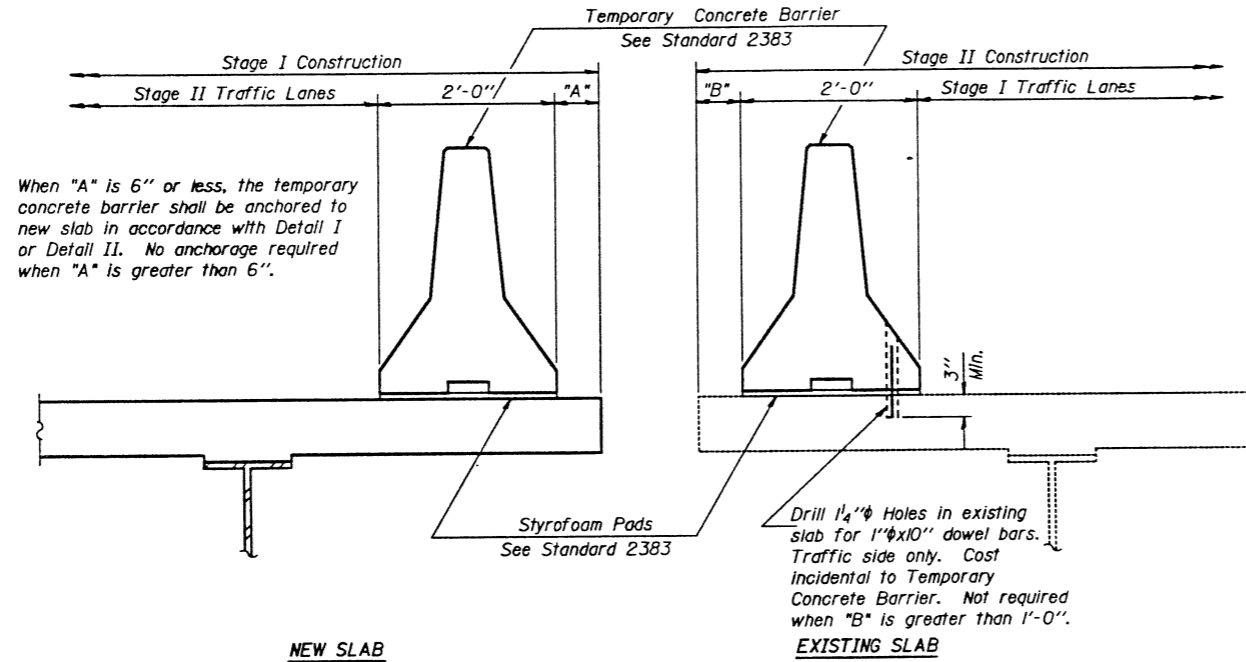
Notes: Hatched areas indicate "Concrete Removal".
Concrete Removal shall not be carried below the top elevation of existing stirrup bars inside the existing pile bent caps.
In back wall of abutments, clean, straighten, and incorporate existing vertical bars into new construction.
In wings of abutments cut off existing vertical bars flush with concrete removal line.
For quantities of Temporary Concrete Barrier see Roadway Plans.

STAGE CONSTRUCTION
AND REMOVAL DETAILS
F.A.P. RT. 805 SEC. 127BR-1
CLINTON COUNTY
STATION 1423+25

DESIGNED	<i>Leslie H. Hunt</i>	EXAMINED	<i>May 25 1985</i>
CHECKED	<i>M. S. A.</i>	PASSED	<i>James J. Robinson</i>
DRAWN	Joe Sutherland	APPROVED	<i>James J. Robinson</i>
CHECKED	M.S.A.		DIRECTOR OF HIGHWAYS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

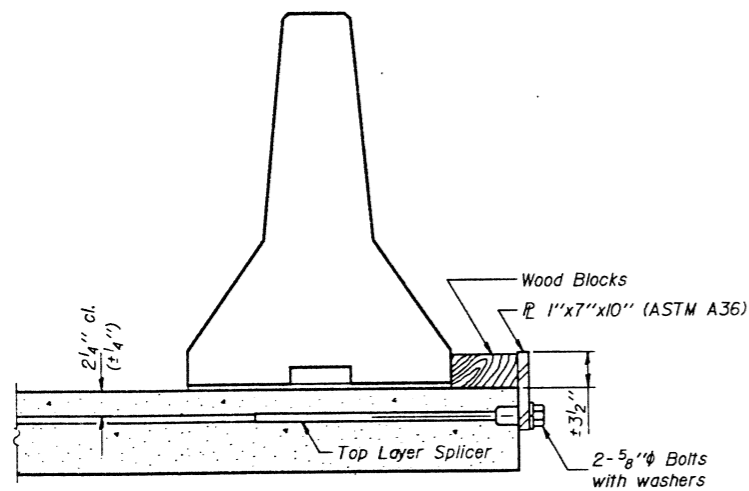
ROUTE NO.	SECTION	COUNTY	SHEET	POST
			53	
SHEET NO. 6				
28 SHEETS				
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



SECTIONS THRU SLAB

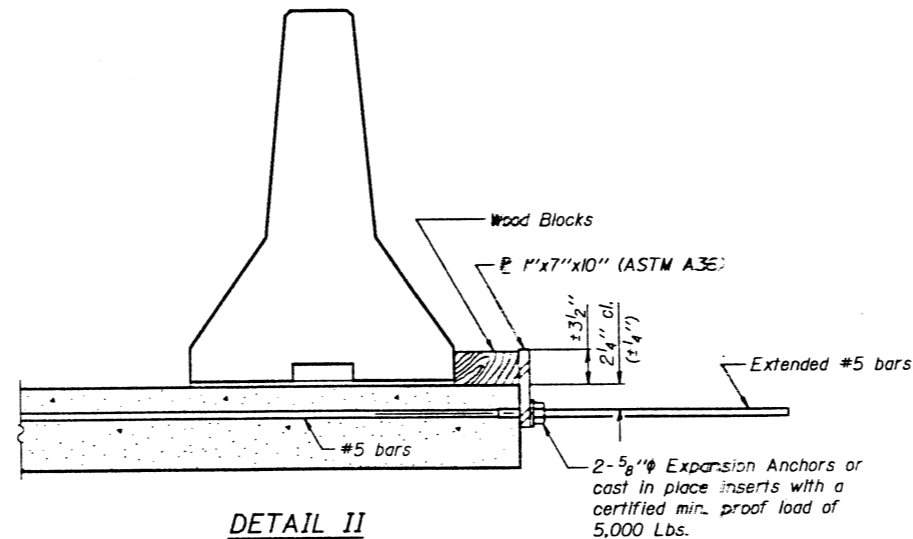
NOTES

- Detail I - With Bar Splicer or Couplers:**
Connect one (1) 1"x7"x10" steel \bar{P} to the top layer of couplers with 2-5/8" ϕ bolts screwed to coupler at approximate \bar{C} of each 10'-0" barrier panel.
- Detail II - With Extended Reinforcement Bars:**
Connect one (1) 1"x7"x10" steel \bar{P} to the concrete slab with 2-5/8" ϕ Expansion Anchors or cast in place inserts spaced between the top layer of reinforcement at approximate \bar{C} of each 10'-0" barrier panel.
- Cost of anchorage is incidental to Temporary Concrete Barrier.



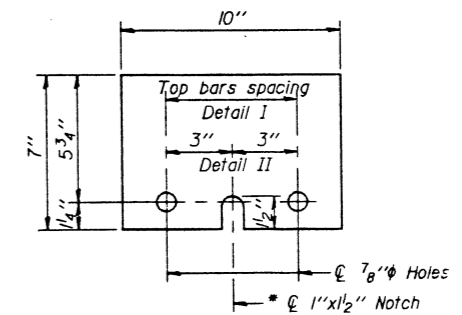
DETAIL I

The 1"x7"x10" Plate shall not be removed until Stage II Construction forms and reinforcement bars are in place.



DETAIL II

The 1"x7"x10" Plate shall not be removed until Stage II Construction forms and all reinforcement bars are in place and the concrete is ready to be placed.



1" x 7" x 10"

* Required only with Detail II

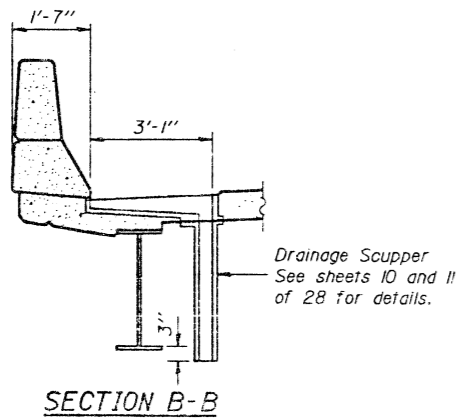
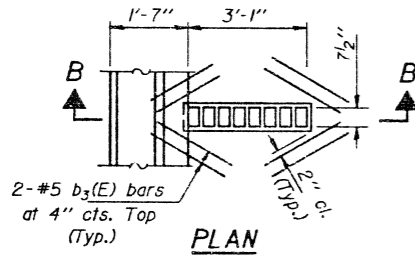
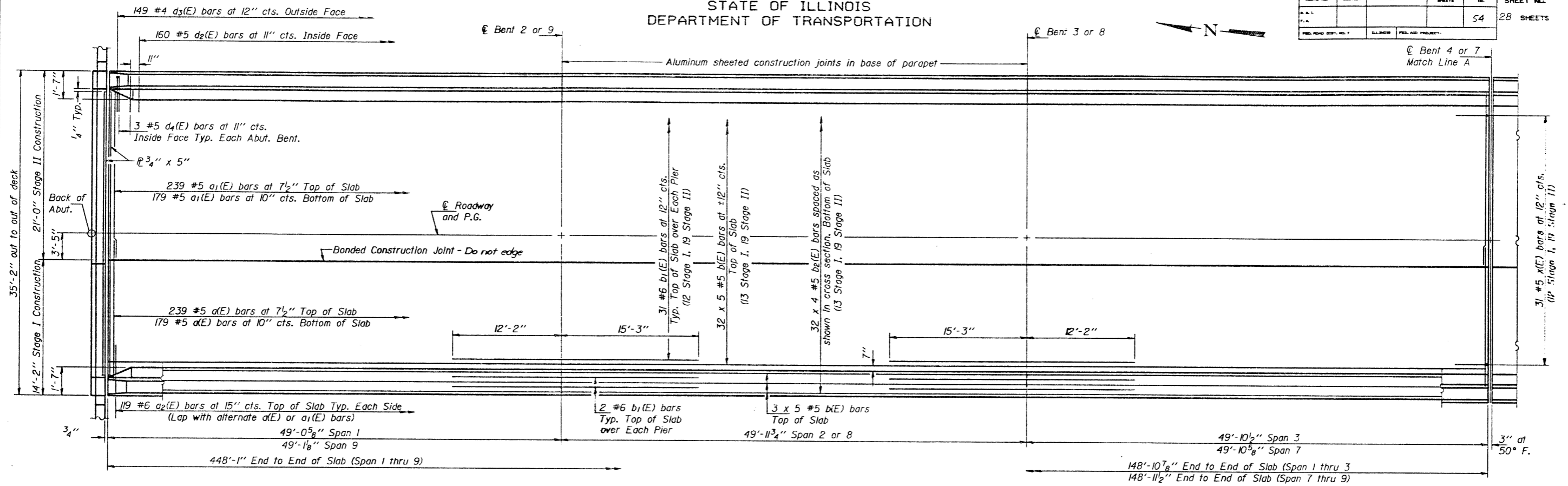
DESIGNED	Lee Sheng Hwang	EXAMINED	May 25 1987 Craig D. Kaspar ENGINEER OF CIVIL DESIGN
CHECKED	Joe Sutherland	PASSED	James J. Roubert ENGINEER OF BRIDGES AND STRUCTURES
DRAWN	Joe Sutherland	APPROVED	DIRECTOR OF HIGHWAYS
CHECKED	M.S.A. L.S.H.		

R-27 6-15-83

TEMPORARY CONCRETE BARRIER
FOR STAGE CONSTRUCTION
F.A.P. RT. 805 SEC. 127BR-1
CLINTON COUNTY
STATION 1423+25

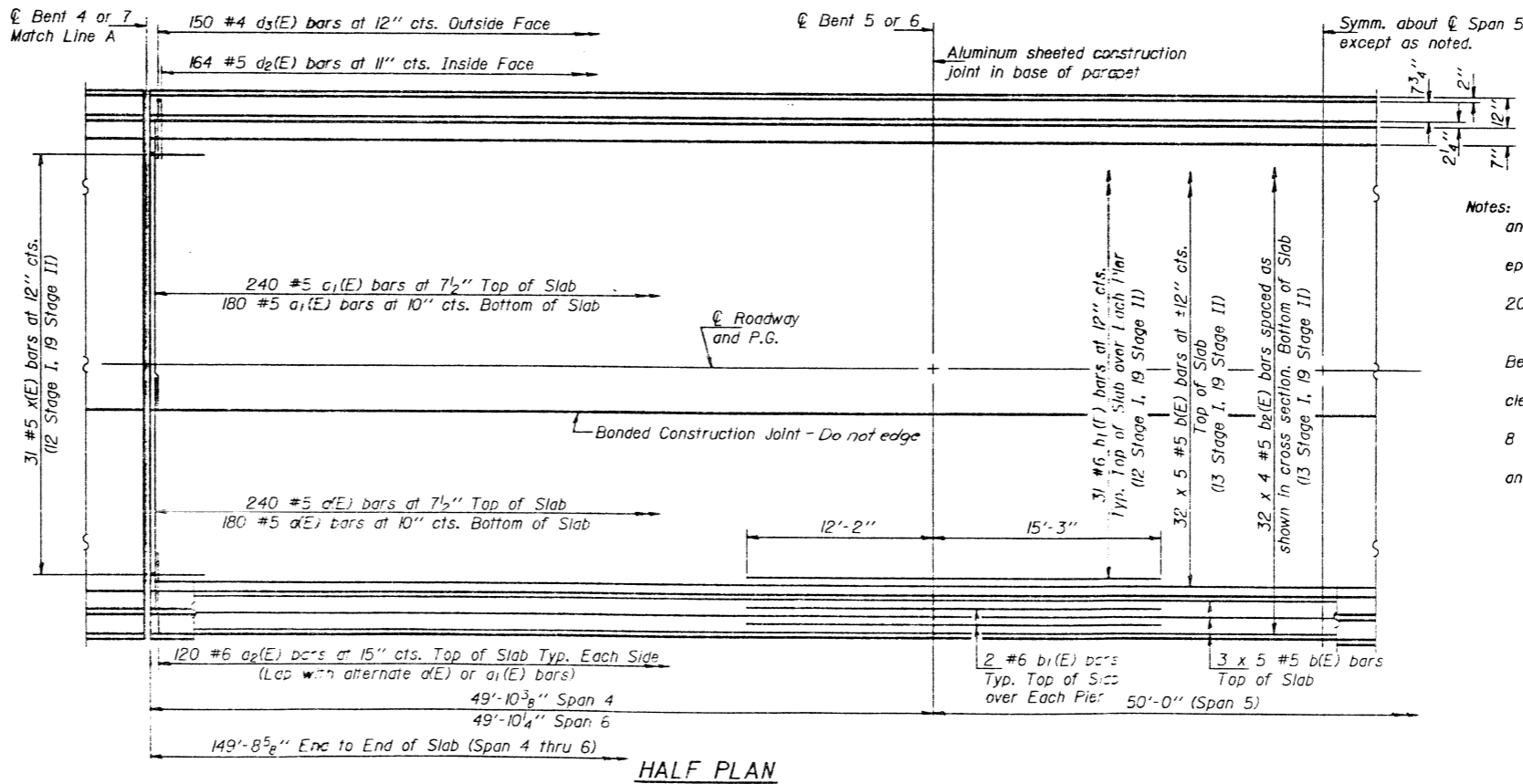
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	FILE NO.	SHEET NO.
				54
SHEET NO. 7 28 SHEETS				
FED. ROAD DIST. NO. 7				
ILLINOIS				
FED. AID PROJECT				



DESIGNED	May 25 1989
CHECKED	EXAMINED
DRAWN	PASSED
CHECKED	APPROVED

Joe Sutherland
James J. Robinson
DIRECTOR OF HIGHWAYS



MIN. BAR LAPS
#5 Bars = 1'-8"

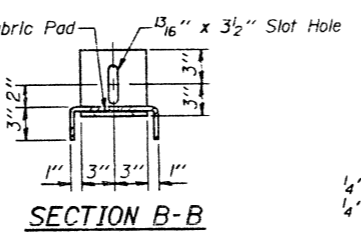
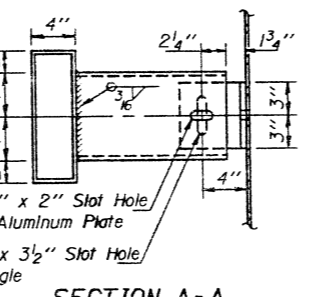
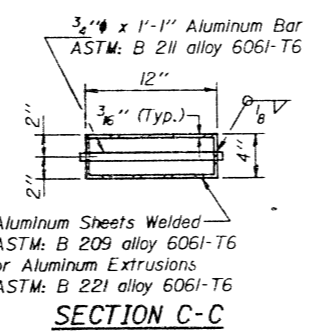
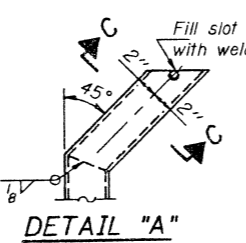
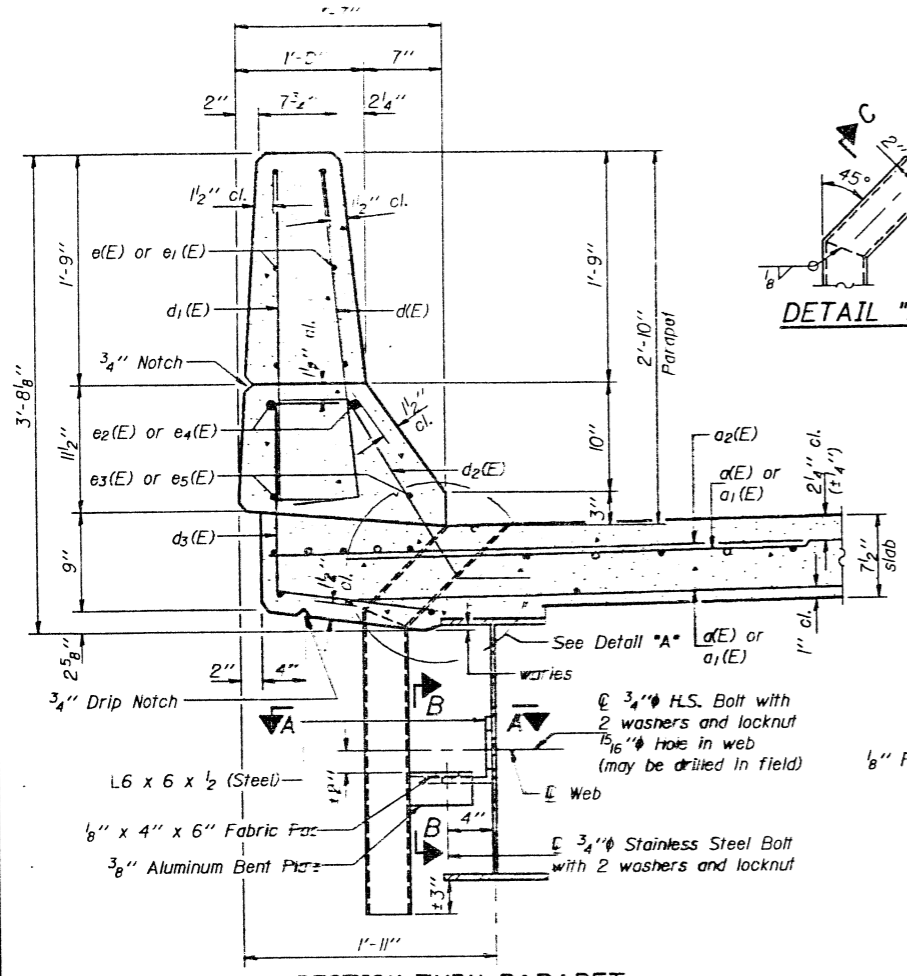
Notes: See sheets 8 and 9 of 28 for superstructure details and Bill of Material.
Reinforcement bars designated (E) shall be epoxy coated.
Bars indicated thus 32 x 5 #5 etc. indicates 20 lines of bars with 3 lengths per line.
See sheets 8 and 9 of 28 for parapet reinforcement.
For Section thru Abutment Bents, Bent 4 and Bent 7 see sheet 8 of 28.
Cut reinforcement bars in field where necessary to clear drainage scuppers.
See sheet 1 of 28 for drain locations and sheet 8 of 28 for details.
See sheet 1 of 28 for drainage scupper locations and sheet 10 and 11 of 28 for details.

SUPERSTRUCTURE
F.A.P. RT. 805 SEC. 127BR-1
CLINTON COUNTY
STATION 1423+25

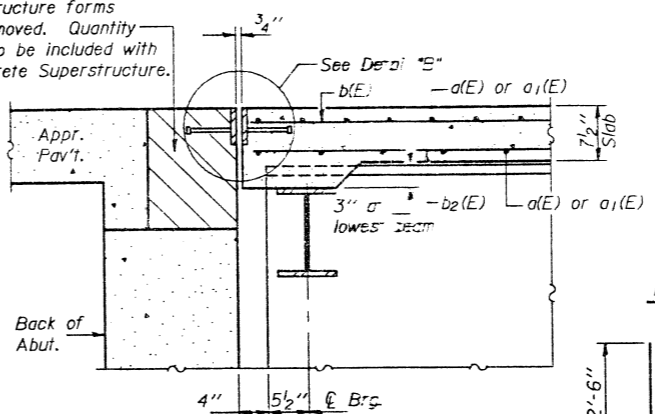
HALF PLAN

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

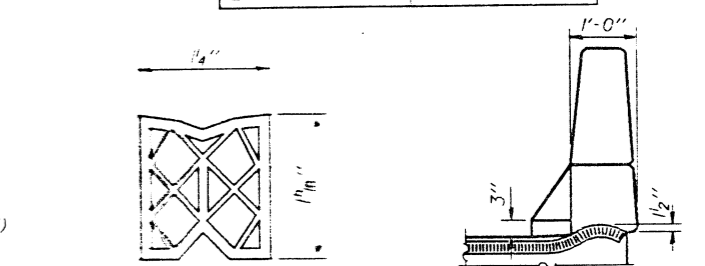
DATE	BY	REV.	SHEET NO.
			8
			28 SHEETS



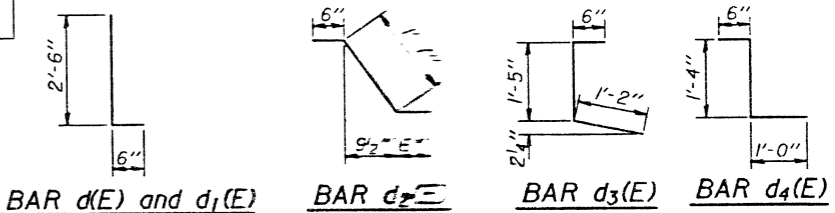
Hatched area to be poured after superstructure forms have been removed. Quantity of concrete to be included with Class X Concrete Superstructure.



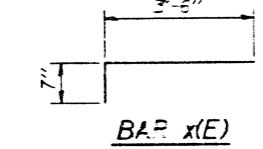
SECTION THRU ABUTMENT
North Abutment Looking East
South Abutment Looking West



PREFORMED JOINT SEAL (1/4") END TREATMENT



BAR d1(E) and d2(E) BAR d3(E) BAR d4(E)



BAR x(E)

BILL OF MATERIAL

Item	No.	Size	Length	Shape
1256	#5	15'-6"		
1256	#5	20'-0"		
716	#6	4'-0"		
570	#5	31'-3"		
210	#6	27'-5"		
384	#5	38'-8"		
32	#5	2'-0"		
980	#5	3'-0"	L	
896	#4	3'-0"	L	
968	#5	2'-7"	L	
896	#4	3'-1"	L	
12	#5	2'-10"	L	
72	#4	16'-1"		
252	#4	16'-4"		
8	#8	48'-9"		
8	#5	48'-9"		
28	#8	49'-7"		
28	#5	49'-7"		
124	#5	4'-1"		
Class X Concrete Superstructure	Cu. Yd.	469.9		
Reinforcement Bars Epoxy Coated	Pound	113590		

** Maximum space between installed segments shall be 3/16". Seal space with Silicone Sealant suitable for Structural Steel.
After fabrication all surfaces of the steel plates shall be given a shop coat of paint specified for Structural Steel.

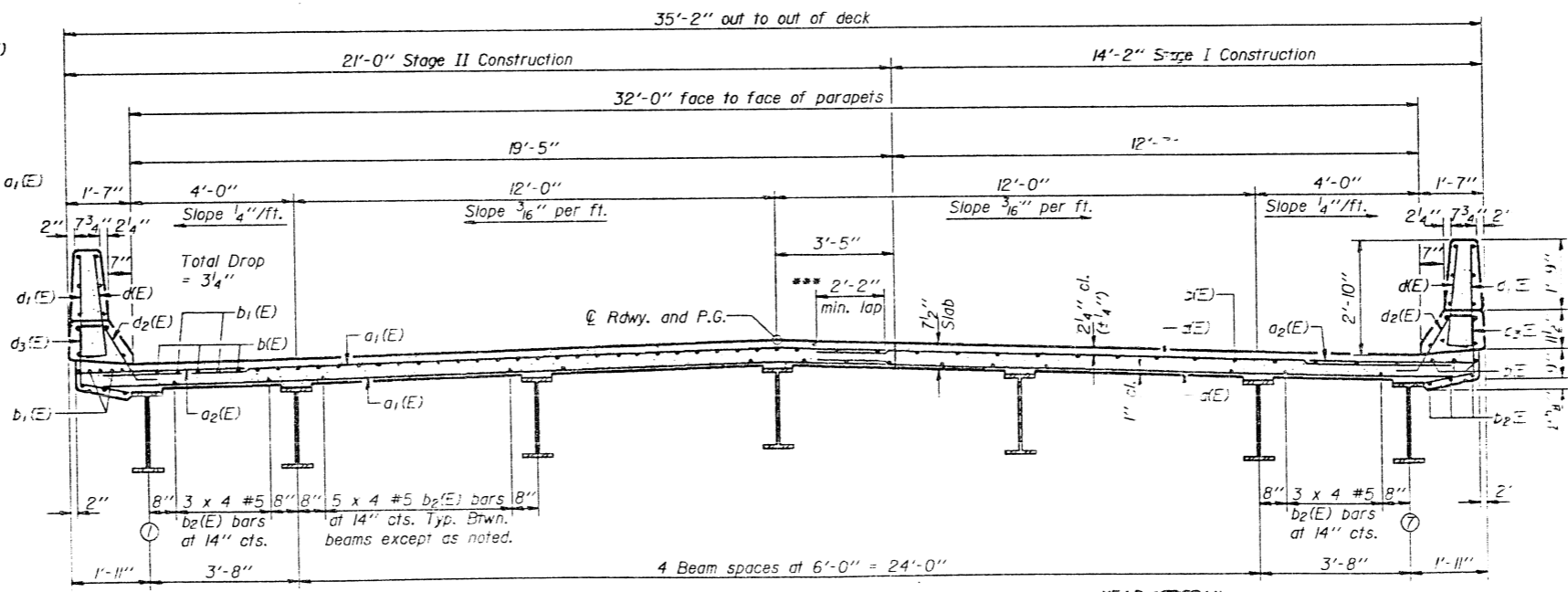
1/16" HOLES at 12" cts. for 3/8" bolts. All bolts shall be burned, sawed or chipped off flush with the plates after forms are removed.

3/4" x 6" Granular or solid flux filled headed studs conforming to Article 710.38 of the Std. Specs. Automatically end welded at 12" cts. (132 Required)

1/4" x 1/2" x 13'-13 1/4" long Bars Stage I
1/4" x 1/2" x 19'-11 3/4" long Bars Stage II (13 1/4" from top of plate)
Tack weld at 6" cts.

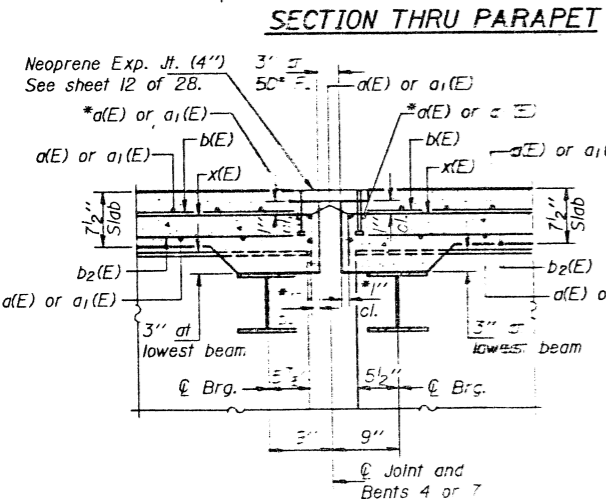
DETAIL "B"

Notes: The exterior surfaces of the aluminum drains shall be cleaned and given a washcoat pretreatment in accordance with the Steel Structures Painting Council's Spec. SSPC-SPI and SSPC-Paint 27 followed by the vinyl enamel coat painting specified for Structural Steel.



CROSS SECTION
(Looking South)

*** Lapped bars at this location shall be tied with double the number of ties normally used.



SECTION AT BENTS 4 AND 7
Looking East Bent 4
Looking West Bent 7

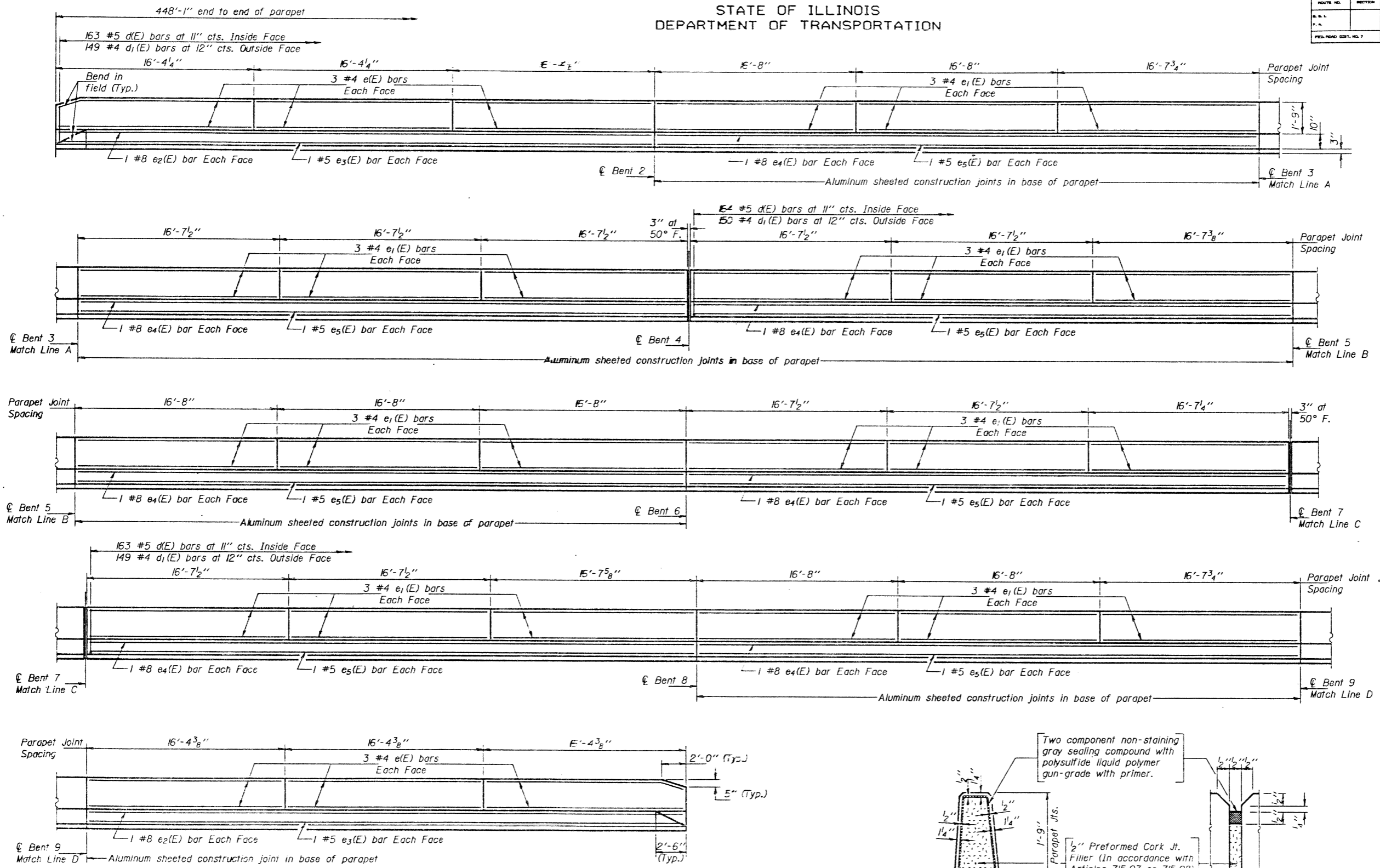
* Place d(E) or a1(E) bars in back of anchor bolts as shown if required to maintain 1" cl. (20'-1/8"). Anchor bolts should be tied to d(E) and a1(E) bars.

DESIGNED	Joe Sutherland	EXAMINED	May 25 1989
CHECKED	Joe Sutherland	PASSED	Joe Sutherland
DRAWN	Joe Sutherland	APPROVED	Joe Sutherland
CHECKED	Joe Sutherland		

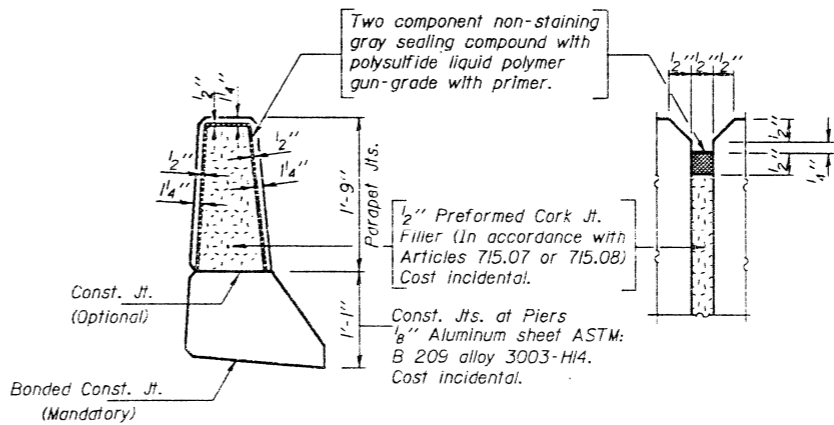
SUPERSTRUCTURE DETAILS
I-55 P. RT. 805 SEC. 127BR-1
CLINTON COUNTY
STATION 1423+25

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	DATE	SHEET	SHEET NO. 9 28 SHEETS
				56	
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT		



PARAPET ELEVATION
Showing inside face of parapets.



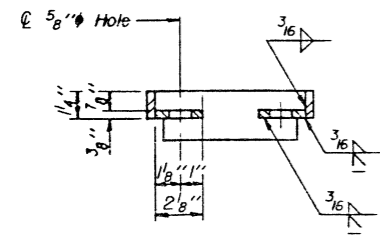
PARAPET JOINT DETAILS

DESIGNED	<i>Joe Sutherland</i>	EXAMINED	<i>May 25 1989</i>
CHECKED	<i>Joe Sutherland</i>	PASSED	<i>James J. Roubert</i>
DRAWN	Joe Sutherland	APPROVED	<i>James J. Roubert</i>
CHECKED	MSA LSH		

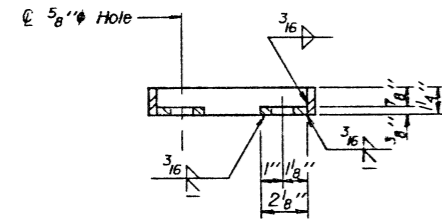
SUPERSTRUCTURE DETAILS
F.A.P. RT. 805 SEC. 127BR-1
CLINTON COUNTY
STATION 1423+25

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

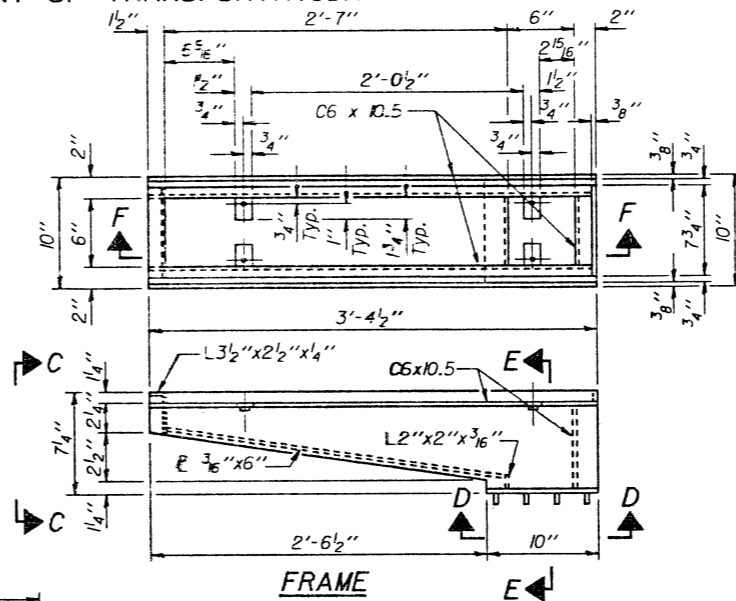
ROUTE NO.	SECTION	COUNTY	DATE	SHEET NO.
F.A.P.			57	28 SHEETS
FED. ROAD DIST. NO. 7		DIVISION		PROJECT



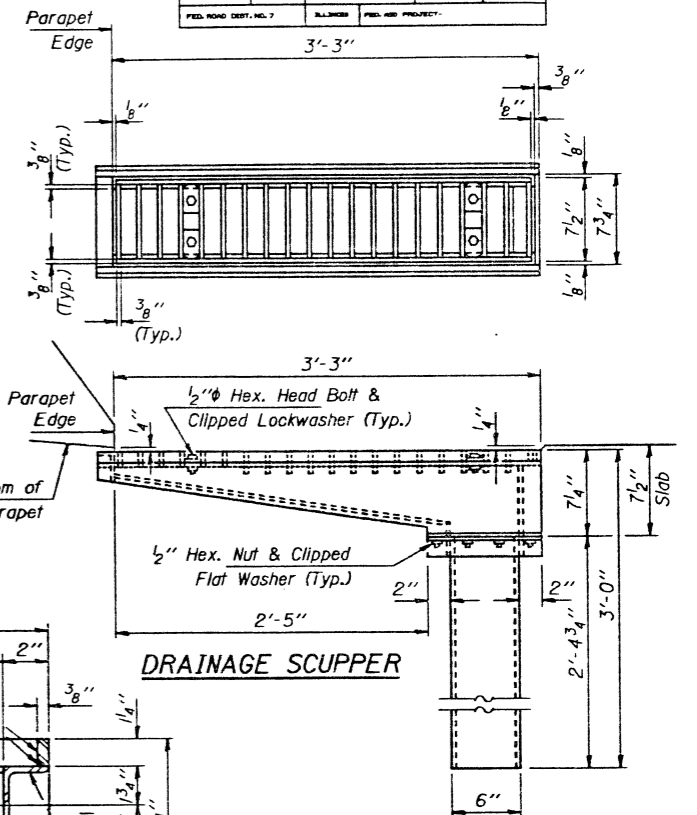
SECTION A-A



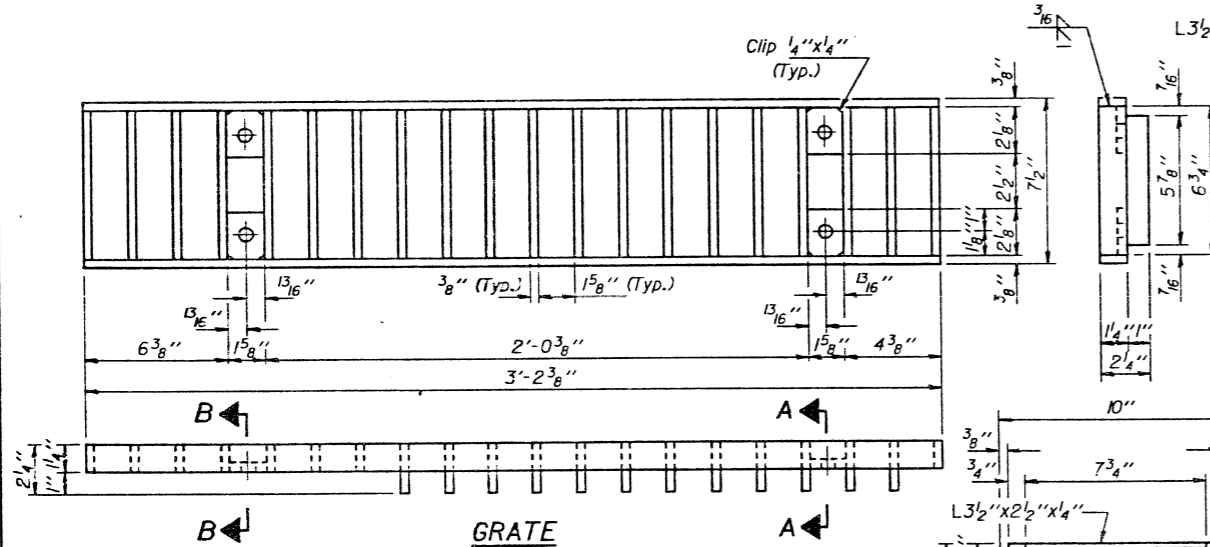
SECTION B-B



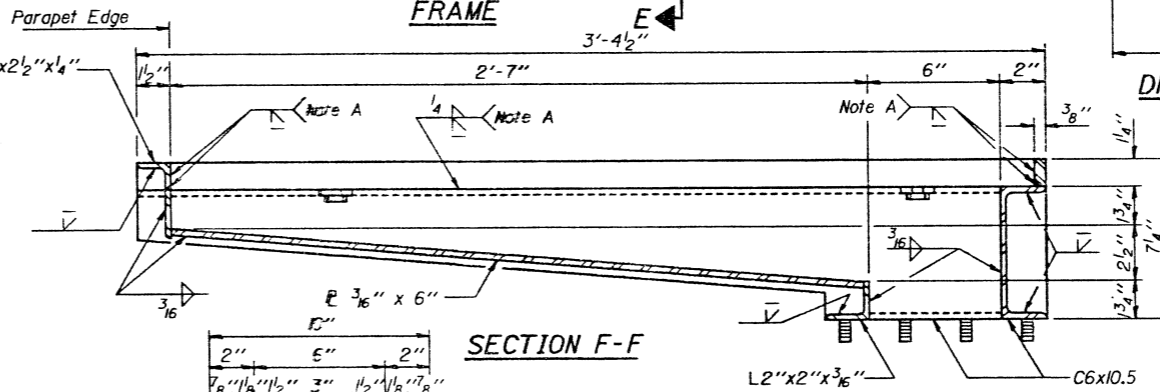
FRAME



DRAINAGE SCUPPER



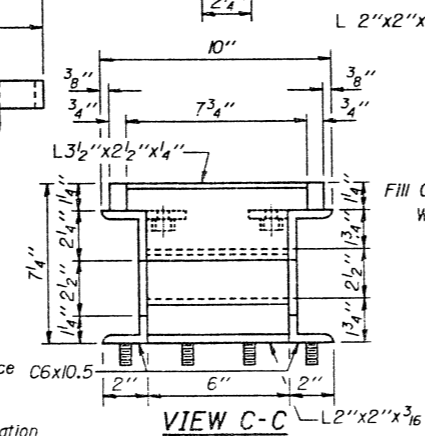
GRATE



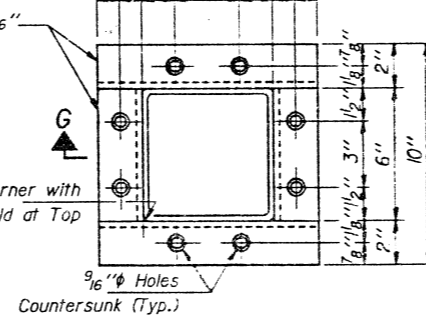
SECTION F-F

Note A: Surface of welds shall be recessed 1/16" Max. or placed flush with inside face of bars to provide clearance for Grate.

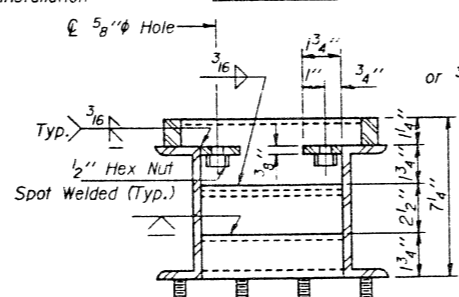
Notes: Hollow structural steel tubing shall conform to the requirements of ASTM designation A500 Grade B, or A501 Structural Steel Tubing.
All other shapes, plates and bars shall conform to the requirements of AASHTO M183.
Bolts, studs, washers and nuts shall conform to the requirements of ASTM A307.
The Grate, Frame and Downspout shall be galvanized after shop fabrication in accordance with AASHTO M111 & ASTM A385.
All bolts, washers and nuts shall be galvanized in accordance with AASHTO M232.
Cost of the Grate, Frame, Downspout, Bolts, Washers and Nuts including complete installation of Scupper will be paid for at the unit bid price for "DRAINAGE SCUPPERS."



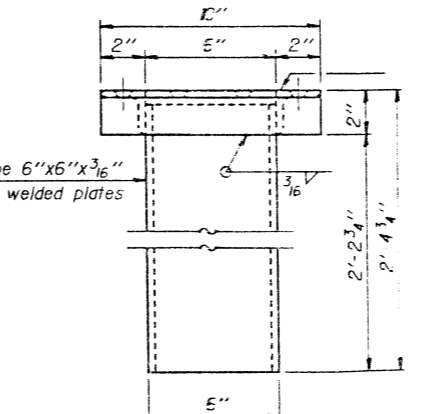
VIEW C-C



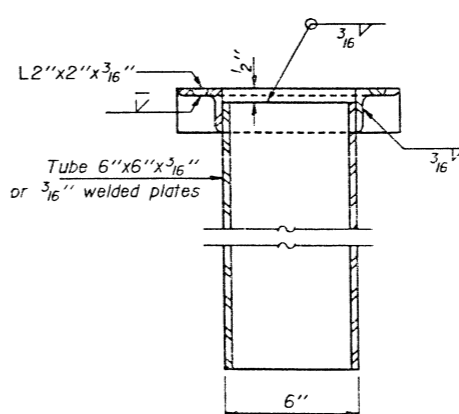
VIEW D-D



SECTION E-E



DOWNSPOUT



SECTION G-G

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Drainage Scupper	Each	4

(Sheet 1 of 2)
STEEL DRAINAGE SCUPPER
F.A.P. RT. 805 SEC. 127BR-1
CLINTON COUNTY
STATION 1423+25

DESIGNED	May 25 1989
CHECKED	EXAMINED
DRAWN	PASSED
CHECKED	APPROVED

DS-3 12-1-83 (W.T. to inside of exterior stringer flange shall not be > 3'-11")

Joint Size	"C" at 50°F	"D" at 50°F
2"	2"	1 1/2" Min.
2 1/2"	2 1/2"	1 3/4" Min.
4"	3"	2 1/2" Min.

INSTALLATION NOTES

- 1 Install sponge mandrels into positions shown to form flap convolution.
- 2 Install parapet or sidewalk piece (trim roadway flap to fit before applying epoxy).
- 3 Install continuous seal in roadway.
- 4 Install anchor blocks as indicated.

NOTE A: Maximum spacing of anchor bolts shall be 12" centers.

SKREW LIMITATIONS

The details of the anchor blocks and the elastomeric membrane in the parapet, as shown, are for up to 50° skews. For skews greater than 50°, the anchor blocks and the elastomeric membrane, installed in accordance with dimension "D", might require modifications to insure a minimum clearance of 1/2" from centerline of anchor studs to edge of parapet opening. The anchor blocks and the elastomeric membrane shall also be installed to the top of the parapet with the anchor studs spaced at ±12" cts.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	POST MILE	SHEET NO. 12
			59	28 SHEETS
FED. ROAD DIST. NO. 7		BLDG. NO.		FED. AID PROJECT NO.

GENERAL NOTES

Continuous Seal Neoprene Expansion Joint shall consist of molded anchor blocks of elastomer and steel, field assembled over continuous lengths of elastomeric membrane. See Special Provisions.

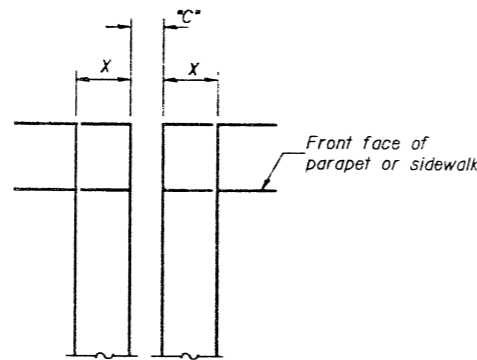
The elastomeric membrane shall be premolded with a single or a double upward convolution that will have a "memory" to return to its molded position upon joint closure.

The steel reinforcement must extend up the back face of anchor blocks when asphalt surfaces are used but is optional in concrete blockout.

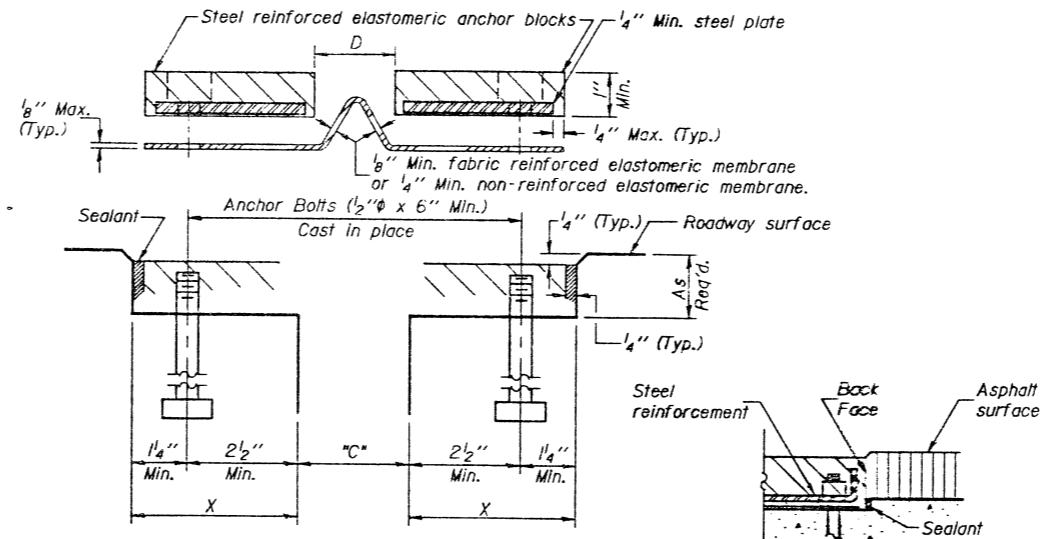
The convolution length shall be such that the extended length will not be greater than the manufactured length when the joint is fully expanded in its design range and will not protrude above the anchor blocks when the joint is fully compressed.

Joint openings shall be adjusted in accordance with Article 503.07(c) of the Standard Specifications when the deck is poured at an ambient temperature other than 50° F.

The parapet and sidewalk flaps may be furnished factory vulcanized to the roadway membrane provided the centerline of the convolution is maintained and the process and method meet the approval of the Engineer.

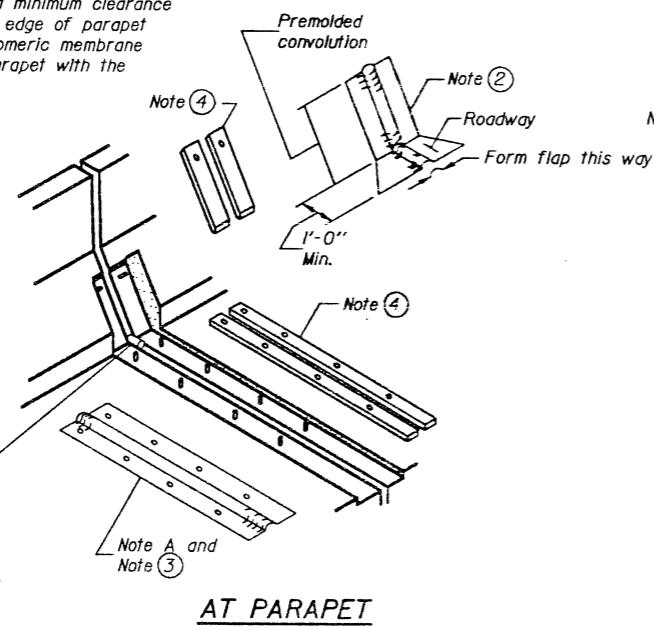


FORMING BLOCKOUT SKETCH

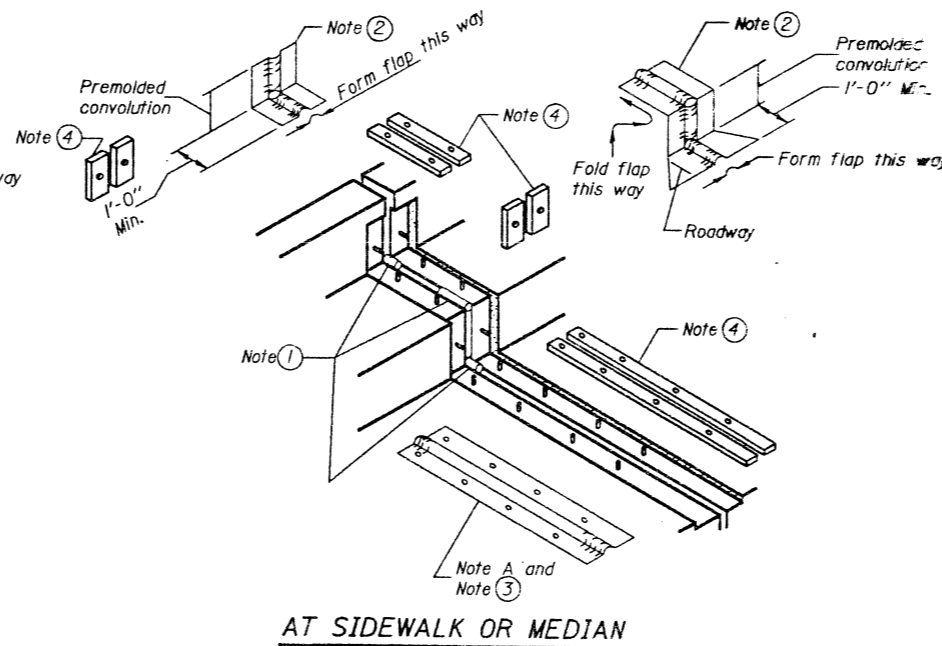


CROSS SECTION

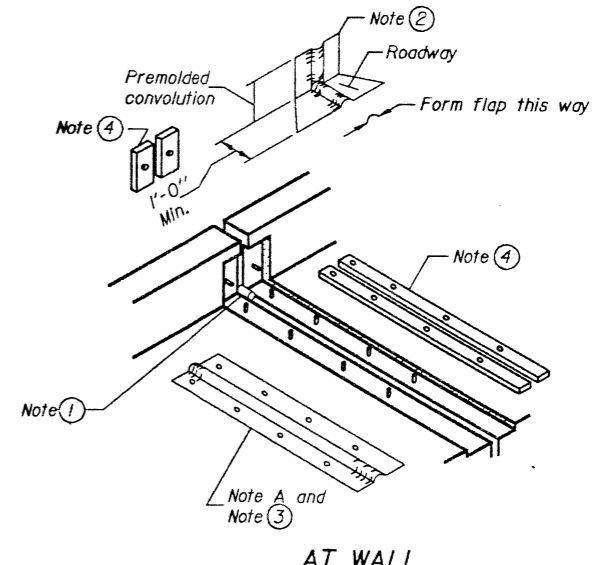
ANCHOR BLOCK REINFORCEMENT WITH ASPHALT SURFACE



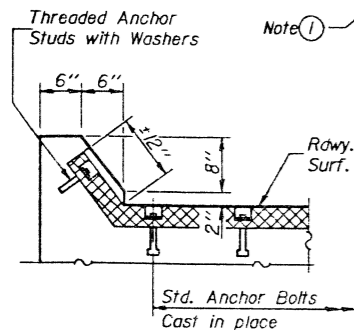
AT PARAPET



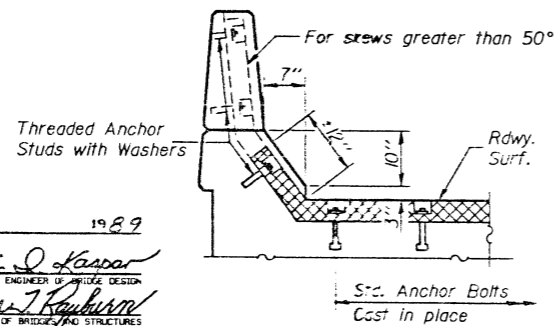
AT SIDEWALK OR MEDIAN



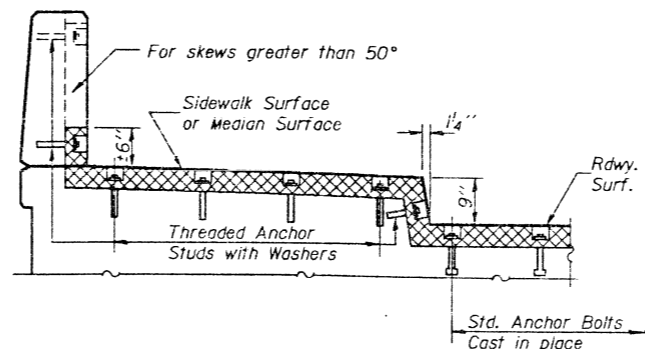
AT WALL



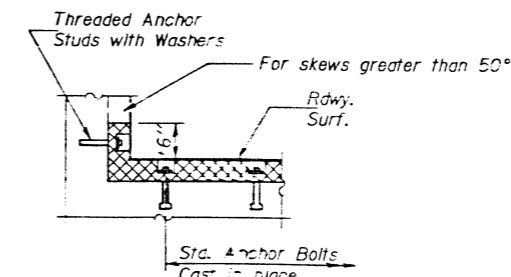
AT CURB



AT PARAPET



AT SIDEWALK OR MEDIAN TYPICAL END TREATMENTS



AT WALL

DESIGNED	Lee Sheng Hwang	EXAMINED	May 25 1989
CHECKED	James J. Kasper	PASSED	James J. Kasper
DRAWN	Joe Sutherland	APPROVED	James J. Kasper
CHECKED	M.S.A. L.S.H.		

EJ-CS 12-31-87

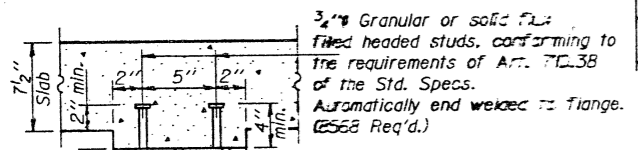
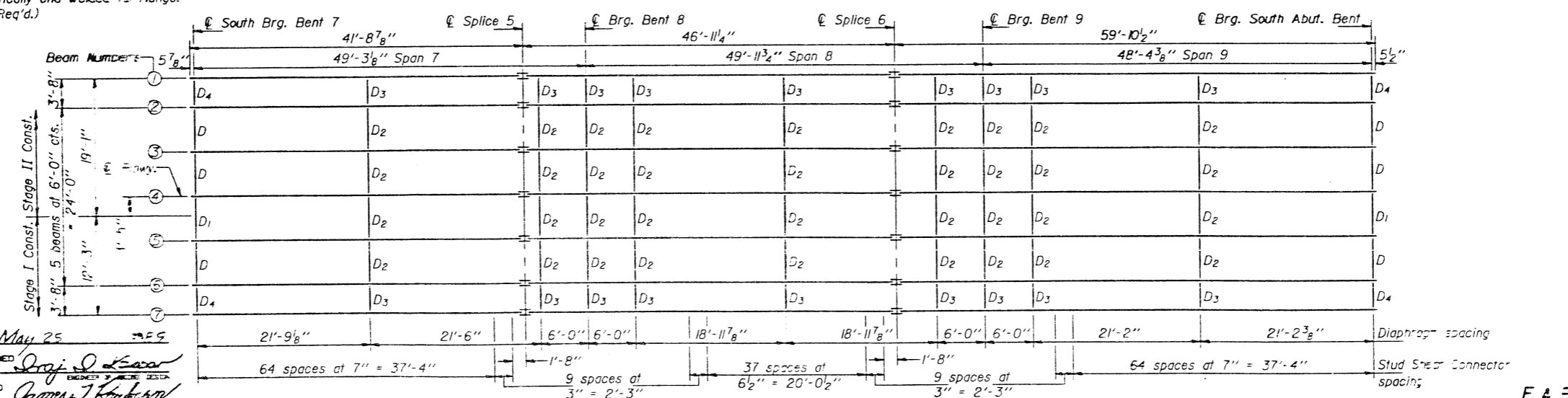
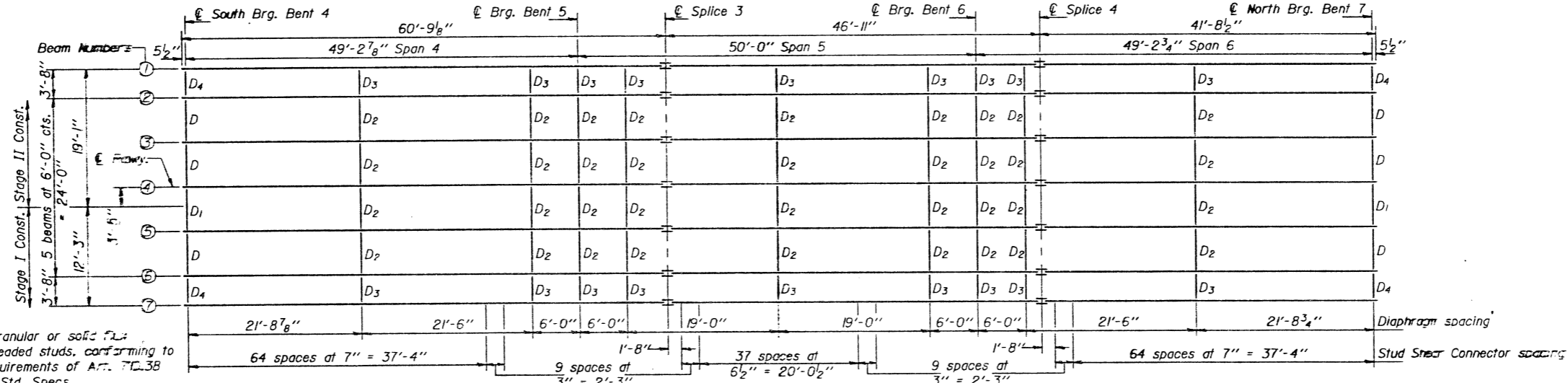
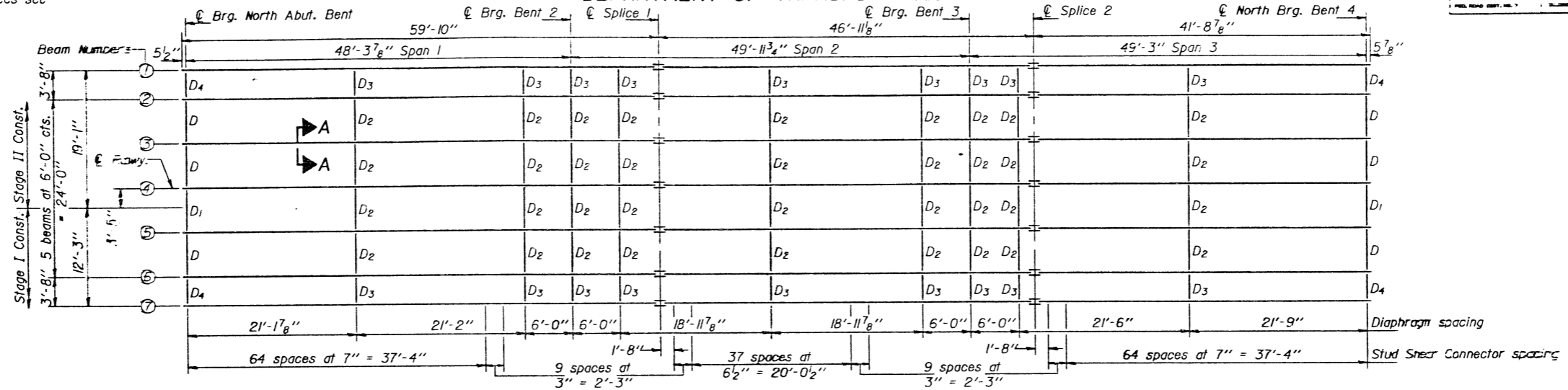
CONTINUOUS SEAL TYPE NEOPRENE EXPANSION JOINTS
For 2", 2 1/2" and 4" Movement

F.A.P. RT. 805 SEC. 127BR-1
CLINTON COUNTY
STATION 1423+25

Notes: All beams shall be W24 x 68 (AASHTO M223, Grade 50) and shall meet Notch Toughness Requirements. For details of diaphragms and splices see sheet 14 of 28.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DATE	BY	CHECKED	DESIGNED	SHEET
				60
PROJECT NO.				28 SHEETS
SHEET NO. 13				



DESIGNED	Lee Zhang
CHECKED	Joe Sutherland
DRAWN	Joe Sutherland
CHECKED	MSA LSH

DATE: May 25, 2015

EXAMINED: [Signature]

APPROVED: [Signature]

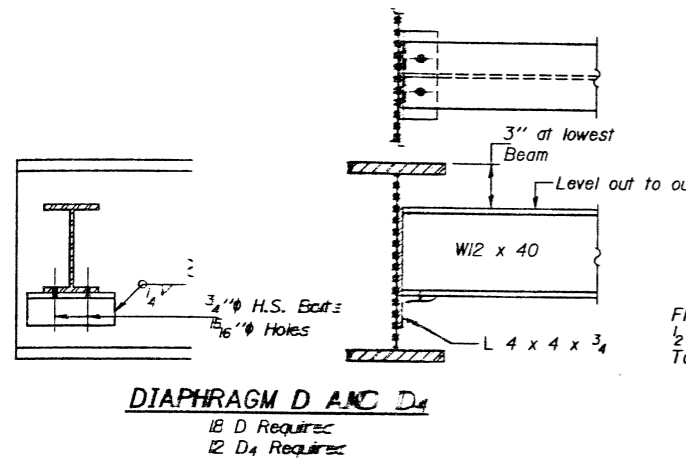
FRAMING PLAN

Removing and reinstalling of bolts for Diaphragms D₂ at Beam 5 for Stage II Construction shall be cost incidental to Structural Steel.

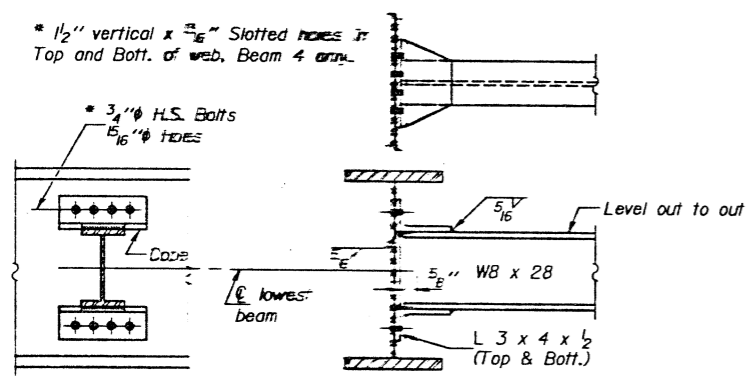
STRUCTURAL STEEL
F.A. - RT. 805 SEC. 127BR-1
CLINTON COUNTY
STATION 1423+25

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

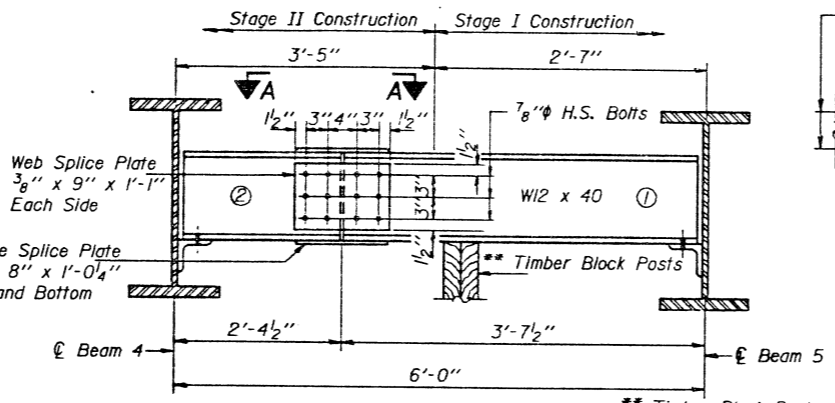
SECTION NO.	SECTION	COUNTY	DATE	SHEET NO. 14
			6/	28 SHEETS



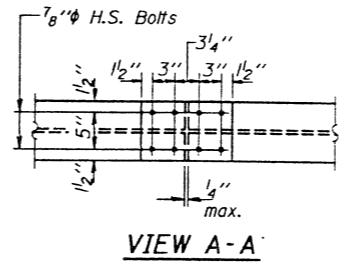
DIAPHRAGM D AND D1
18 D Requires
12 D1 Requires



DIAPHRAGM D2 AND D3
108 D2 Requires
54 D3 Requires



DIAPHRAGM D1
6 Required (Looking South)
For details of connections to beams see Diaphragm D.



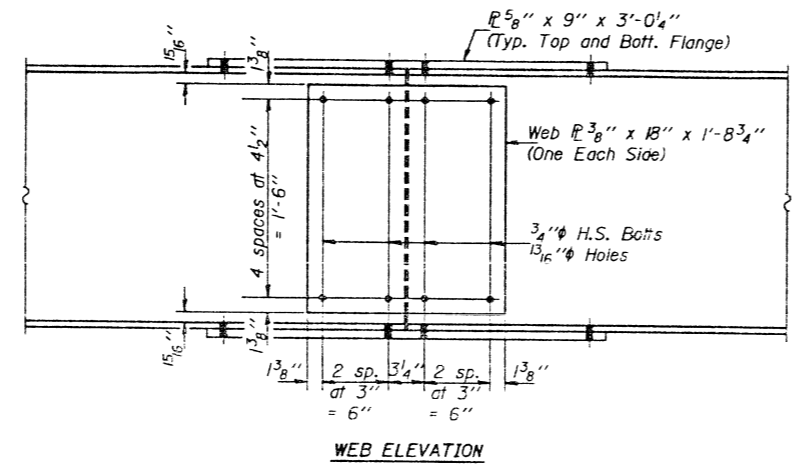
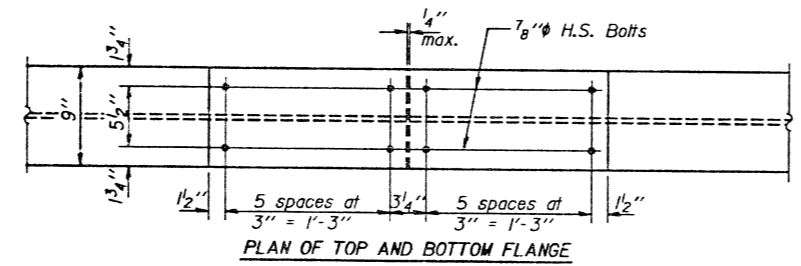
DIAPHRAGM D1 CONSTRUCTION SEQUENCE

- 1.) Order Diaphragm D1 in two sections with lengths of 2'-3 3/4" and 3'-6 3/4".
- 2.) Attach part ① of Diaphragm to Beam 5 during Stage I Construction.
- 3.) Place Timber Block Posts between part ① of diaphragm and abutment bearing seat.
- 4.) Attach part ② of diaphragm to both Beam 4 and part ① of diaphragm during Stage II Construction.
- 5.) Attach all splice plates to part ① and part ② of diaphragms.
- 6.) Remove Timber Block Posts.

TOP OF BEAM ELEVATIONS
(For fabrication only.)

Location	Beam 1 and 7	Beam 2 and 8	Beam 3 and 5	Beam 4
Brq. North Abut.	424.85	424.85	425.02	425.11
Bent 2	424.86	424.86	425.03	425.12
Splice 1	424.86	424.86	425.03	425.12
Bent 3	424.92	424.92	425.09	425.18
Splice 2	424.93	424.93	425.10	425.19
North Brq. Bent 4	425.00	425.00	425.17	425.26
South Brq. Bent 4	425.00	425.00	425.17	425.26
Bent 5	425.01	425.01	425.18	425.27
Splice 3	425.01	425.01	425.18	425.27
Bent 6	425.07	425.07	425.24	425.33
Splice 4	425.08	425.08	425.25	425.34
North Brq. Bent 7	425.11	425.11	425.28	425.38
South Brq. Bent 7	425.11	425.11	425.28	425.38
Splice 5	425.04	425.04	425.21	425.31
Bent 8	425.03	425.03	425.20	425.29
Splice 6	424.94	424.94	425.11	425.20
Bent 9	424.93	424.93	425.10	425.19
Brq. South Abut.	424.88	424.88	425.05	425.15

Notes: Two hardened washers shall be required over all bolt holes in diaphragms. The bolts for the slotted holes shall only be finger-tightened prior to the deck slab pouring and then be fully-tightened after completion of the pouring. All splice plate materials shall meet Notch Toughness Requirements. All splice plate materials shall be AASHTO M223, Grade 50.



SPLICE DETAILS
Typical all splices.

INTERIOR GIRDER MOMENT TABLE

	0.4 Sp. 1, 4 and 7 or 0.6 Sp. 3, 6 and 9	0.5 Span 2, 5 and 8	Bent 2, 3, 5, 6, 8 and 9
Is	(in ⁴) 1830	1830	1830
Ic	(in ⁴) 6144	6144	6144
Ss	(in ³) 154	154	154
Sc	(in ³) 255	255	255
Z	(in ³)		177
φ	(K/ft.) .654	.654	.641
MR	(K) 126	45	212
sφ	(K/ft.) .287	.287	
Msφ	(K) 63	39	
Mt	(K) 290	243	229
M (Imp)	(K) 83	69	37
5/3(Mt+I)	(K) 622	520	277
Ma	(K) 1054	785	836
Mu	(K) 1500	1500	737
fsφ non-comp. (k.s.i.)	9.8	3.5	1.5
fsφ comp. (k.s.i.)	3.0	1.8	
fs5/3(t+I) (k.s.i.)	29.3	24.5	21.5
fs (Overload) (k.s.i.)	42.1	29.8	30.1
fs (Total) (k.s.i.)			
VR	(K) 42.4	33.7	

INTERIOR GIRDER REACTION TABLE

	Abut. Bents, Bents 4 and 7	Bent 2, 3, 5, 6, 8 and 9
Is	(K) 18.8	51.2
Ic	(K) 30.9	36.2
Ss	(K) 8.8	10.3
Sc	(K) 58.5	97.7

Is and Ss are the moment of inertia and section modulus of the steel section used in computing fs (Total & Overload).
Ic and Sc are the moment of inertia and section modulus of the composite section used in computing fs (Total & Overload).
VR is the maximum Live Load + Impact shear reaction in span.
φ is the plastic section modulus used to determine the full plastic moments in the non-comp. areas.
Ms (Applied Moment) = 1.3[MR + Msφ + 5/3(Mt + I)].
Mt is the Full Plastic Moment Capacity for Compact, Braced section.
fs (Overload) is the sum of the stresses due to MR - Msφ + 5/3(Mt + I).
fs (Total) (Non-comp section) is the sum of the stresses due to 1.3[MR + Msφ + 5/3(Mt + I)].

DESIGNED: [Signature] 1989
CHECKED: [Signature]
DRAWN: Joe Sutherland
CHECKED: [Signature]

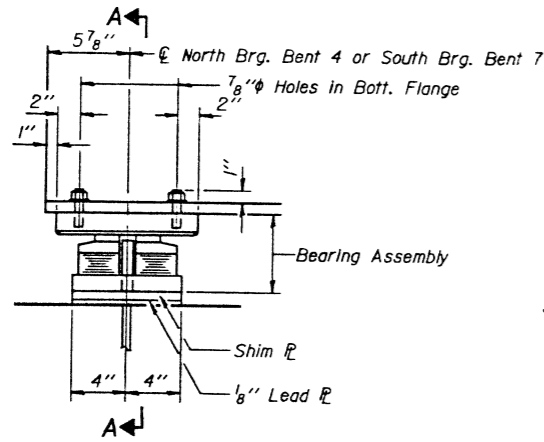
APPROVED: [Signature]
APPROVED: [Signature]

I-2-D 8-30-80

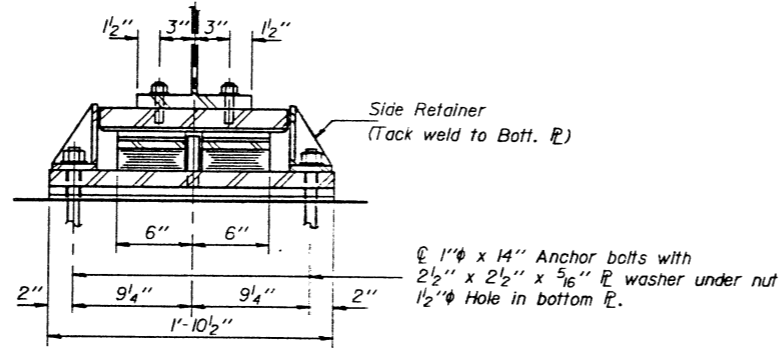
STRUCTURAL STEEL
F.A.P. RT. 805 SEC. 127BR-1
CLINTON COUNTY
STATION 1423+25

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	QUALITY	DATE	SHEET NO.
				15
SHEET NO. 15				28 SHEETS
PROJECT NO. 7				62



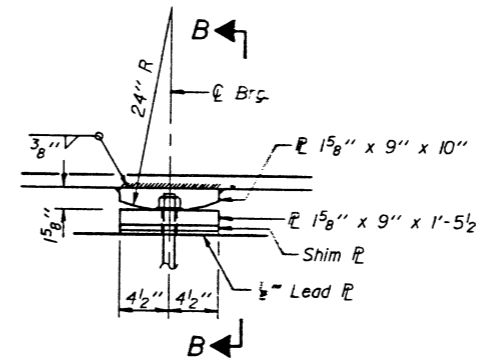
ELEVATION AT BENTS 4 AND 7
Looking West for Bent 4 and East for Bent 7.



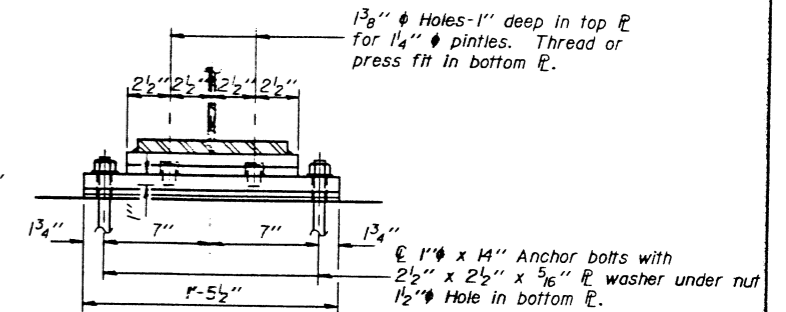
SECTION A-A

TYPE III ELASTOMERIC EXP. BRG.

Note: See sheet 16 of 28 for Anchor Bolt Installation.

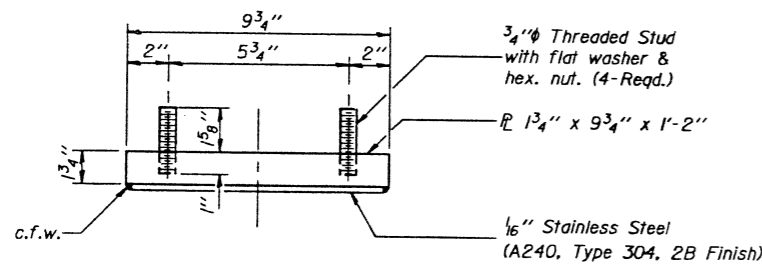


ELEVATION AT BENTS 2, 3, 5, 6, 8 AND 9

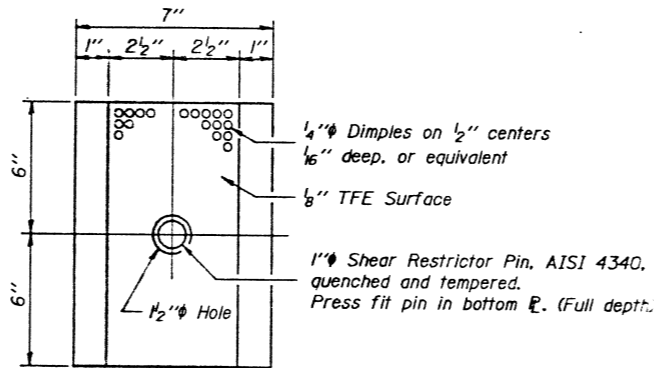


SECTION B-B

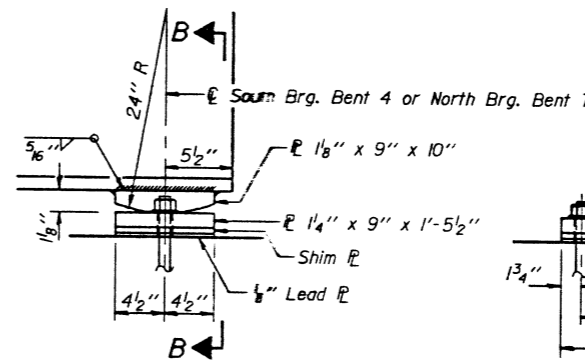
FIXED BEARING



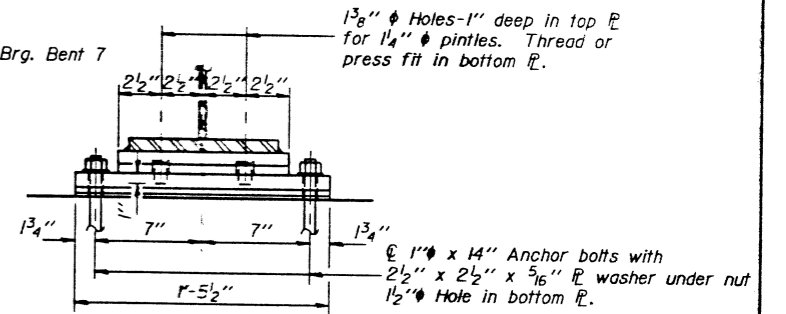
TOP BEARING ASSEMBLY



PLAN-TFE ELASTOMERIC BRG.

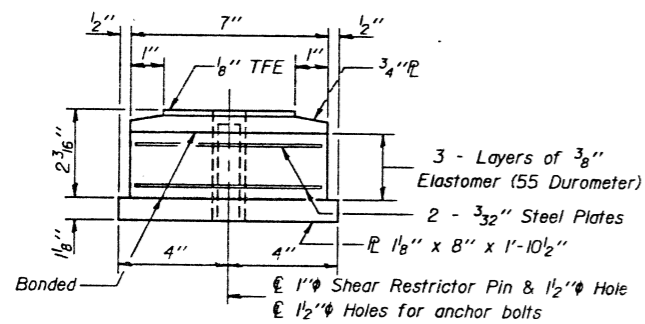


ELEVATION AT BENTS 4, 7, AND ABUTMENTS
Looking West for Bent 4 and East for Bent 7.
Looking West for North Abut. and East for South Abut.

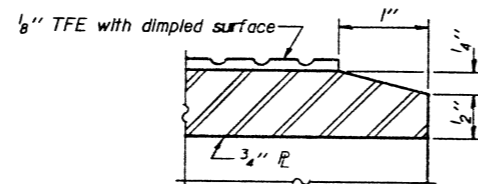


SECTION B-B

FIXED BEARING



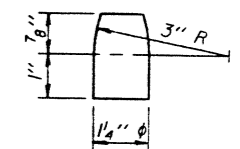
BOTTOM BEARING ASSEMBLY



SECTION THRU TFE

Note: The 1/8" TFE sheet shall be bonded directly to the top steel plate with a two-component, medium viscosity epoxy resin, conforming to the requirements of the Federal Specification MMM-A-134, Type I. The bond agent shall be applied to the full area of the contact surfaces.

Bonding of 1/8" TFE sheet during vulcanizing process will be permitted provided the process and method of adjusting assembly height is approved by the Engineer.

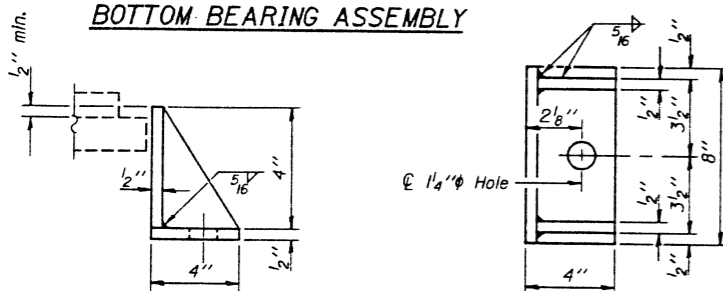


PINTLE

BILL OF MATERIAL

Item	Unit	Total
Elastomeric Bearing Assembly Type III	Each	14

BEARING DETAILS
F.A.P. RT. 805 SEC. 127BR-1
CLINTON COUNTY
STATION 1423+25

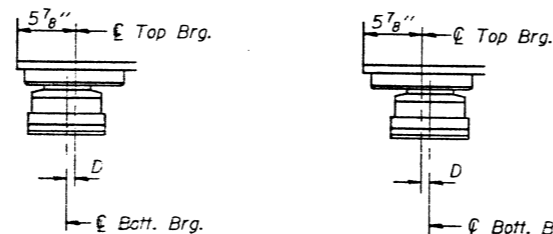


SIDE RETAINER

Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.

DESIGNED	Lee Sheng Hwang
CHECKED	Joe Sutherland
DRAWN	Joe Sutherland
CHECKED	MSA LSH

EXAMINED	May 25 1989
APPROVED	James J. Kaspar
	James J. Kaspar
	Director of Highways

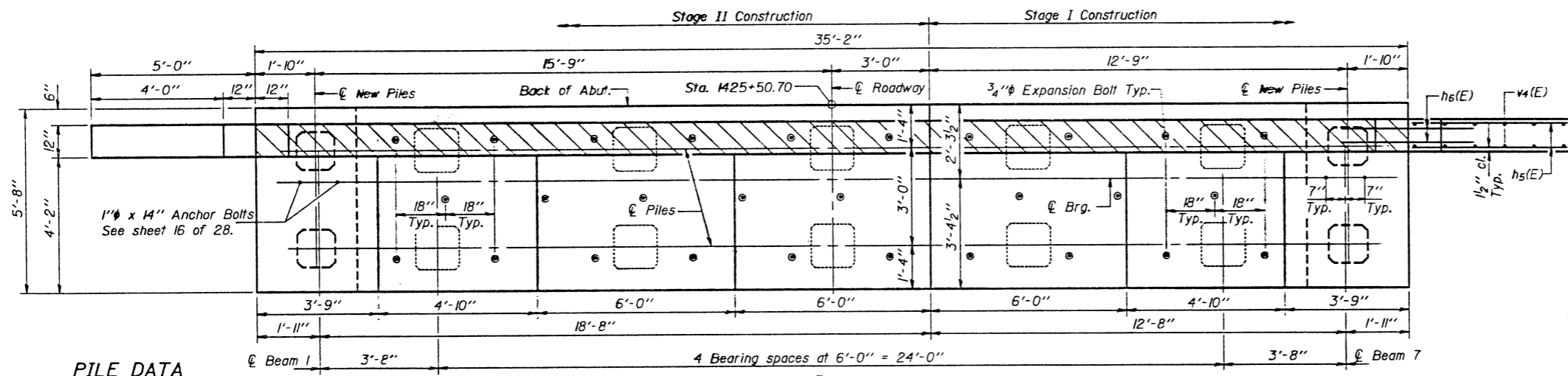
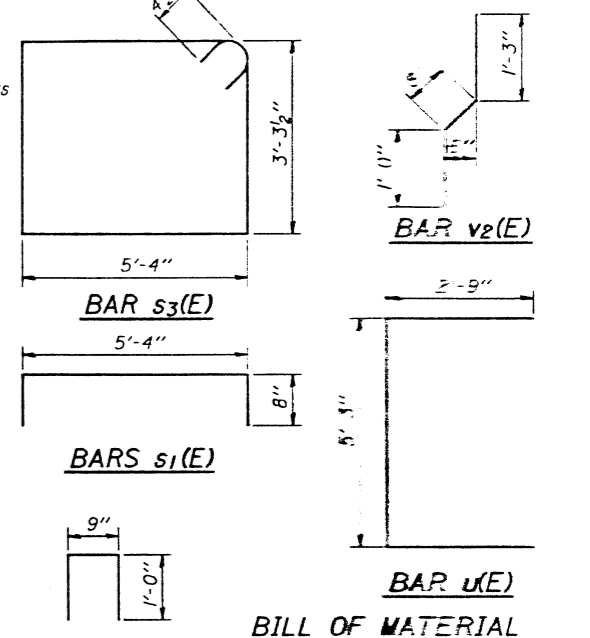
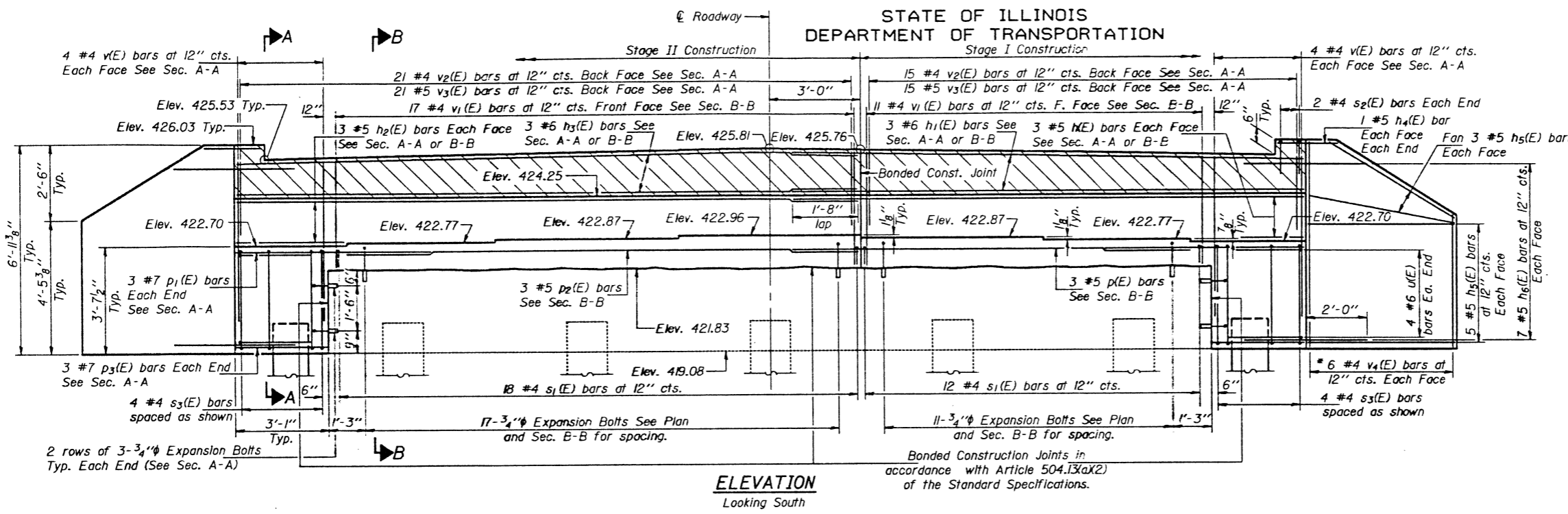


BELOW 50° F. (Move bott. brg. away from fixed brg.)
ABOVE 50° F. (Move bott. brg. toward fixed brg.)

SETTING ANCHOR BOLTS AT EXP. BRG.

D=1/8" per each 100' of expansion for every 15° temp. change from the normal temp. of 50° F.
Expansion length for each expansion bearing is 224'-0".

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



PILE DATA

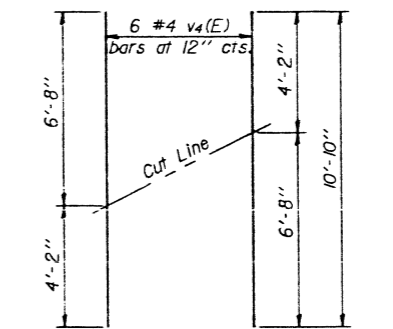
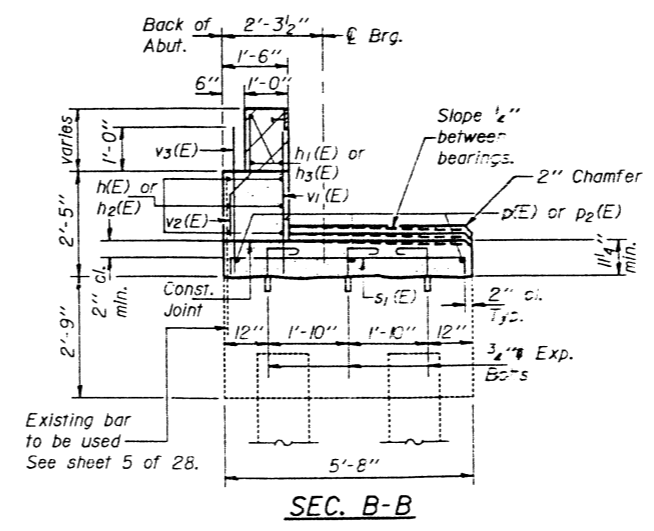
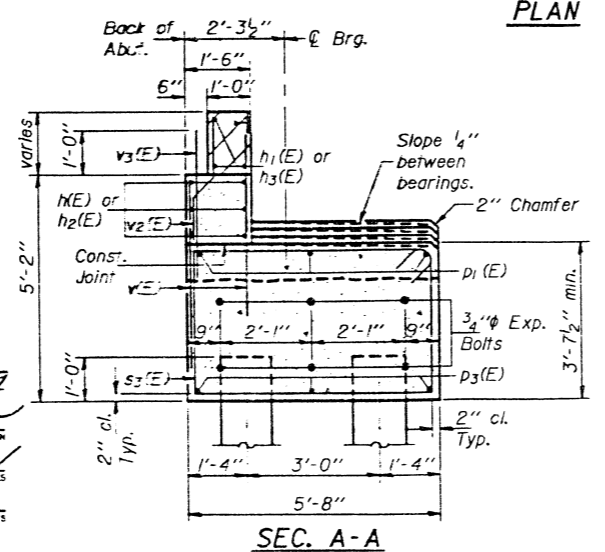
Type: Precast Concrete Piles 14"
Capacity: 36 Ton
Est. Length: 25'
No. Required: 1 plus 1 test pile

Notes: All exposed edges shall have standard 3/4" chamfer except as noted.
Pour steps monolithically with cap.
Space reinforcement in cap to miss anchor bolts.
Hatched area to be poured after superstructure is in place and form work is removed. Concrete in hatched area shall be billed with superstructure as "Class X Concrete Superstructure".
Existing anchor bolts shall be cut off flush at the concrete removal line. Cost is incidental to "Structural Steel".

DESIGNED: [Signature]
CHECKED: [Signature]
DRAWN: Joe Sutherland
CHECKED: M.S.P. L.S.H.

EXAMINED: [Signature]
PASSED: [Signature]
APPROVED: [Signature]

MAY 25 1989



BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h ₂ (E)	6	#5	6'-3"	
h ₁ (E)	3	#5	6'-3"	
h ₂ (E)	3	#5	20'-2"	
h ₃ (E)	3	#5	20'-4"	
h ₄ (E)	4	#5	4'-3"	
h ₅ (E)	32	#5	4'-3"	
h ₆ (E)	28	#5	4'-3"	
p ₂ (E)	3	#5	2'-4"	
p ₁ (E)	6	#5	6'-3"	
p ₃ (E)	6	#5	2'-9"	
s ₁ (E)	30	#4	6'-3"	□
s ₂ (E)	4	#4	2'-3"	□
s ₃ (E)	8	#4	6'-3"	□
u ₁ (E)	8	#5	6'-3"	□
v ₂ (E)	16	#4	4'-3"	
v ₁ (E)	28	#4	3'-3"	
v ₂ (E)	36	#4	2'-11"	
v ₃ (E)	36	#5	3'-2"	
v ₄ (E)	12	#4	6'-5"	
Expansion Bolts	32	3/4"		40
Class X Concrete				15.7
Reinforcement Bars				1640
Epoxy Coated				
Precast Concrete Piles 14"				75
Test Pile Precast Concrete Structure				1
Concrete				28

Reinforcement bars designated (E) shall be epoxy coated.

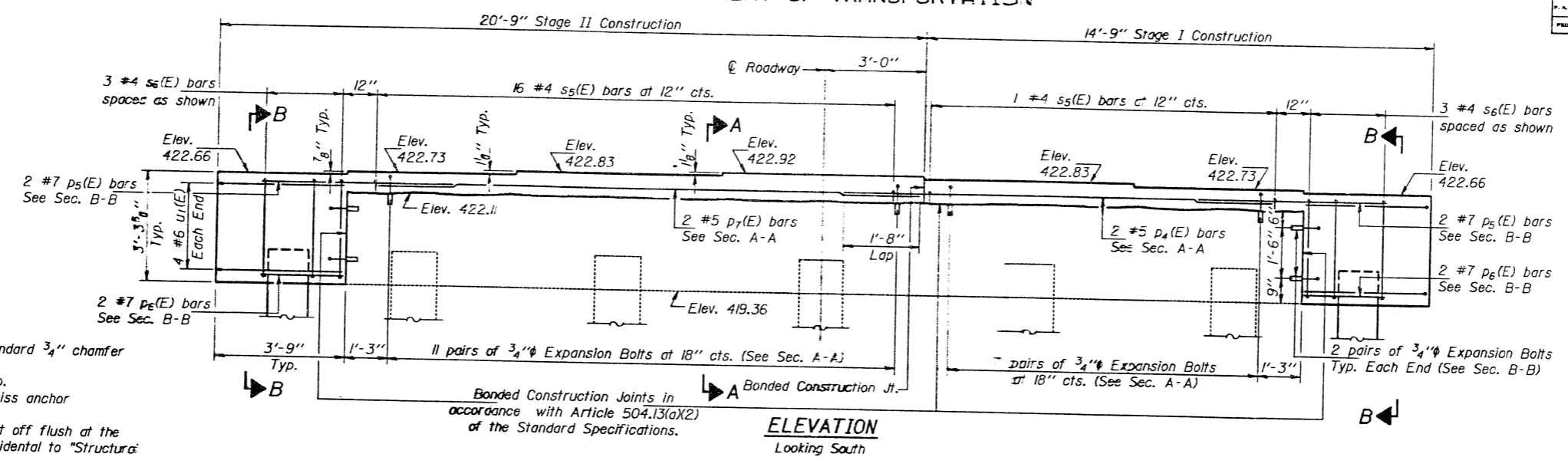
SOUTH ABUTMENT
F.A.P. RT. 805 SEC. 127BR-1
CLINTON COUNTY
STATION 423-25

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

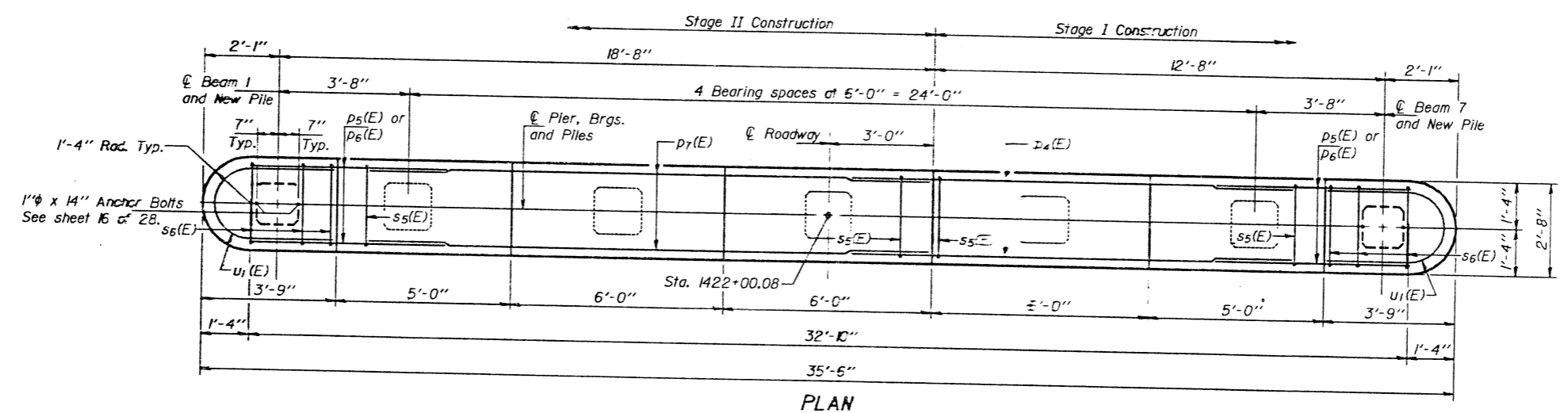
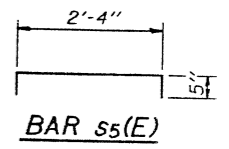
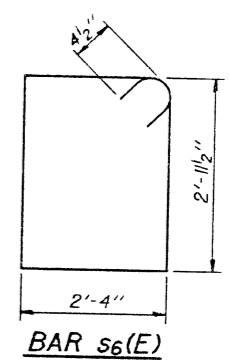
ROUTE NO.	SECTION	COMPLEY	DATE	SHEET NO.
				20
F.A.P.				67
F.A.P. DIST. NO. 7				28 SHEETS

PILE DATA

Type: Precast Concrete Piles 14"
Capacity: 45 Ton
Est. Length: 30'
No. Required: 2



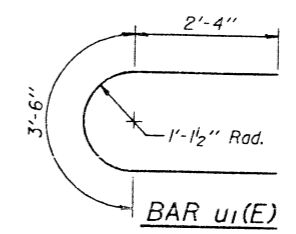
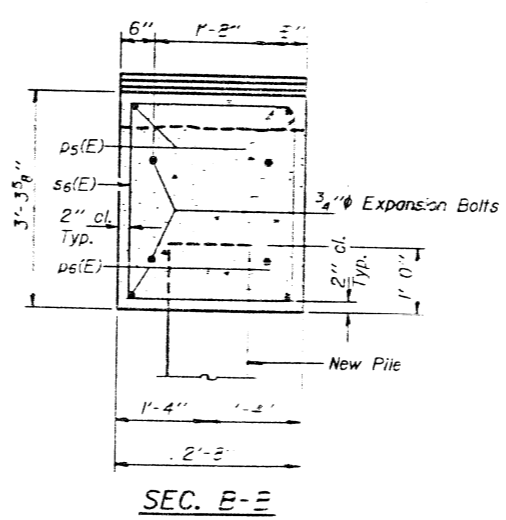
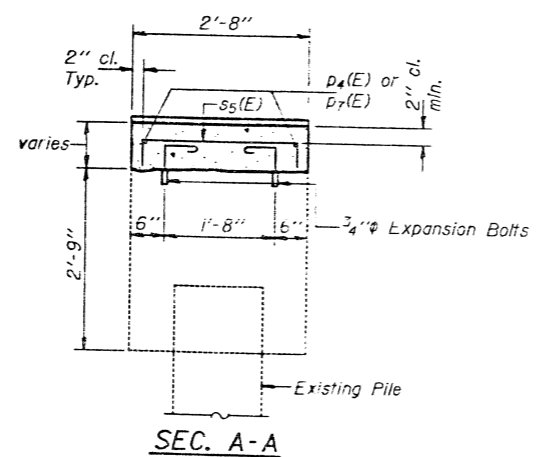
Notes: All exposed edges shall have standard 3/4" chamfer except as noted.
Four steps monolithically with cap.
Space reinforcement in cap to miss anchor bolts.
Existing anchor bolts shall be cut off flush at the concrete removal line. Cost is incidental to "Structural Steel".



BILL OF MATERIAL

Bar	No.	Size	Length	Shape
p4(E)	2	#5	12'-0"	—
p5(E)	4	#7	5'-6"	—
p6(E)	4	#7	2'-4"	—
p7(E)	2	#5	16'-3"	—
s5(E)	27	#4	3'-2"	□
s6(E)	6	#4	11'-4"	□
u1(E)	8	#6	8'-2"	C
Expansion Bolts 3/4"		Each	44	
Class X Concrete		Cu. Yd.	4.1	
Reinforcement Bars		Pound	320	
Epoxy Coated Precast Concrete Piles 14"		Lin. Ft.	60	

Reinforcement bars designated (E) shall be epoxy coated.



DESIGNED: Joe Sutherland
CHECKED: M.S.T. L.S.H.
DRAWN: Joe Sutherland

EXAMINED: May 25 1929
PASSED: James J. Kaspar
APPROVED: James J. Kaspar

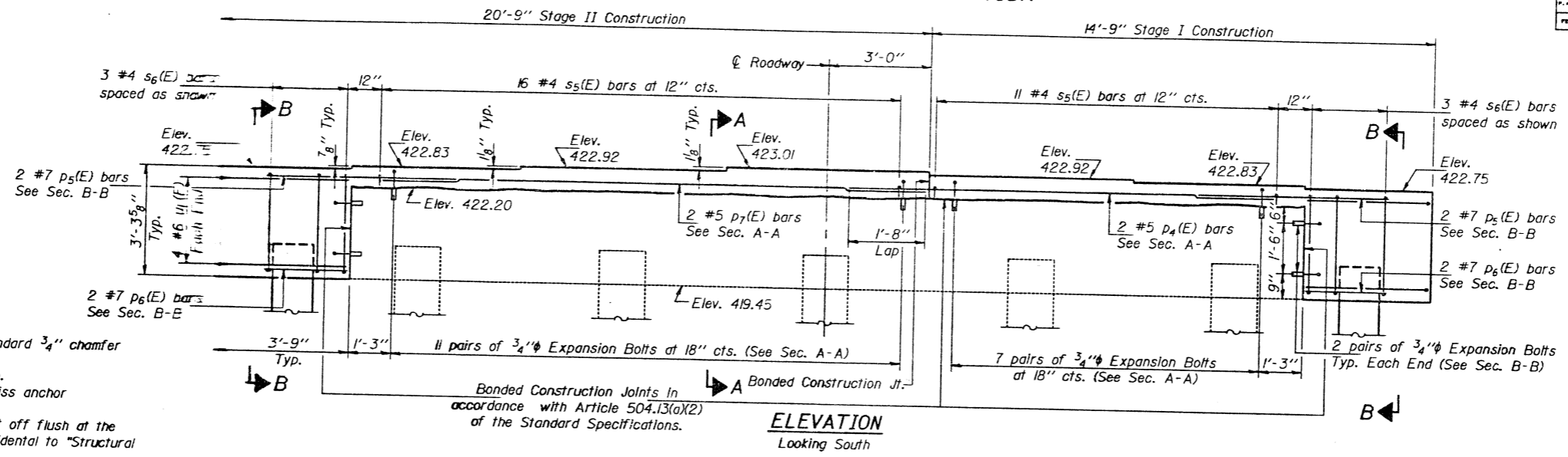
BENT 3
F.A.P. RT. 805 SEC. 127BR-1
CLINTON COUNTY
STATION 1423+25

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

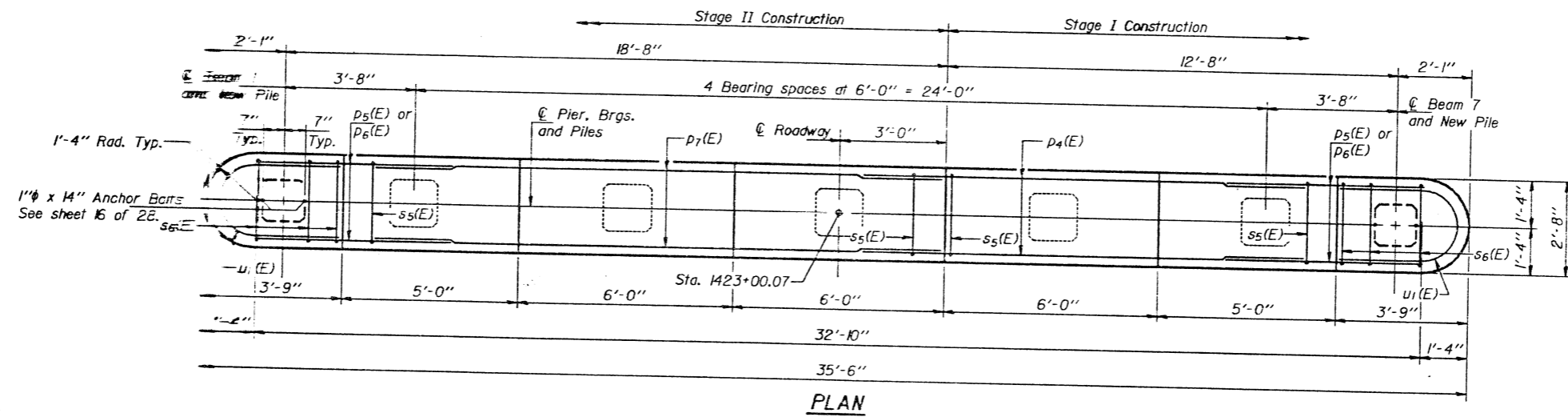
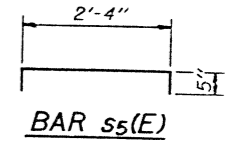
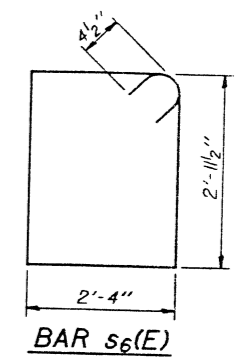
ROUTE NO.	SECTION	COUNTY	POST-MILE	POST-POINT	SHEET NO. 22
				69	28 SHEETS
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT		

PILE DATA

Type: Precast Concrete Piles 14"
Capacity: 45 Ton
Est. Length: 30'
No. Required: 2



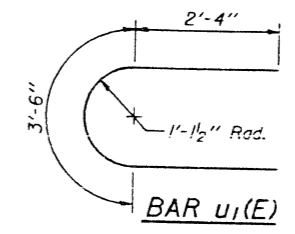
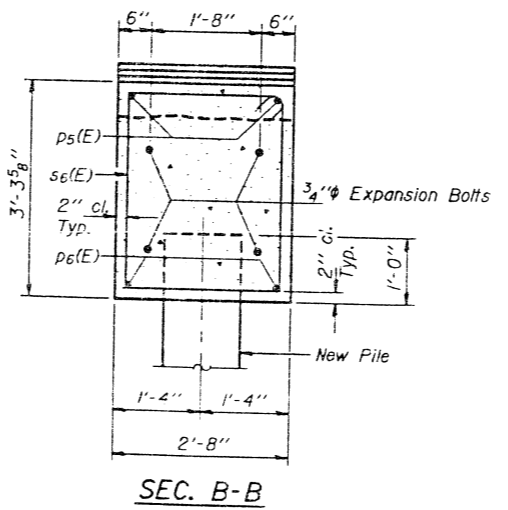
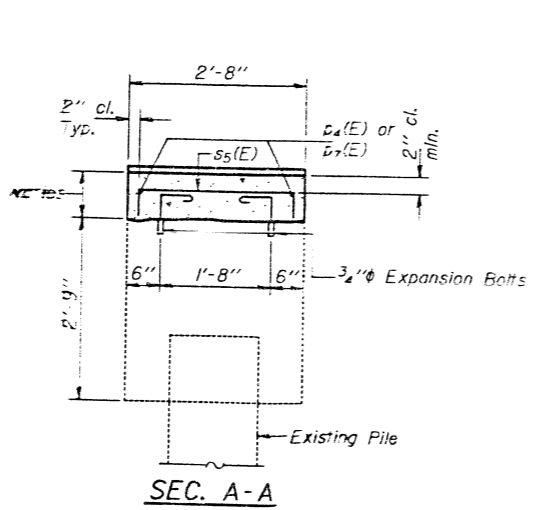
Notes: All exposed edges shall have standard 3/4" chamfer except as noted.
Four steps monolithically with cap.
Space reinforcement in cap to miss anchor bolts.
Existing anchor bolts shall be cut off flush at the concrete removal line. Cost is incidental to "Structural Steel".



BILL OF MATERIAL

Bar	No.	Size	Length	Shape
p4(E)	2	#5	12'-0"	—
p5(E)	4	#7	5'-6"	—
p6(E)	4	#7	2'-4"	—
p7(E)	2	#5	16'-3"	—
s5(E)	27	#4	3'-2"	□
s6(E)	6	#4	1'-4"	□
u1(E)	8	#5	8'-2"	C
Expansion Bolts	3/4"	Each	44	
Class X Concrete		Cu. Yd.	4.1	
Reinforcement Bars		Pound	320	
Epoxy Coated				
Precast Concrete Piles 14"		Lin. Ft.	60	

Reinforcement bars designated (E) shall be epoxy coated.



DESIGNED: [Signature]
CHECKED: [Signature]
DRAWN: Joe Sutherland
CHECKED: M.F. LSH

EXAMINED: [Signature] May 25 1985
PASSED: [Signature]
APPROVED: [Signature] DIRECTOR OF HIGHWAYS

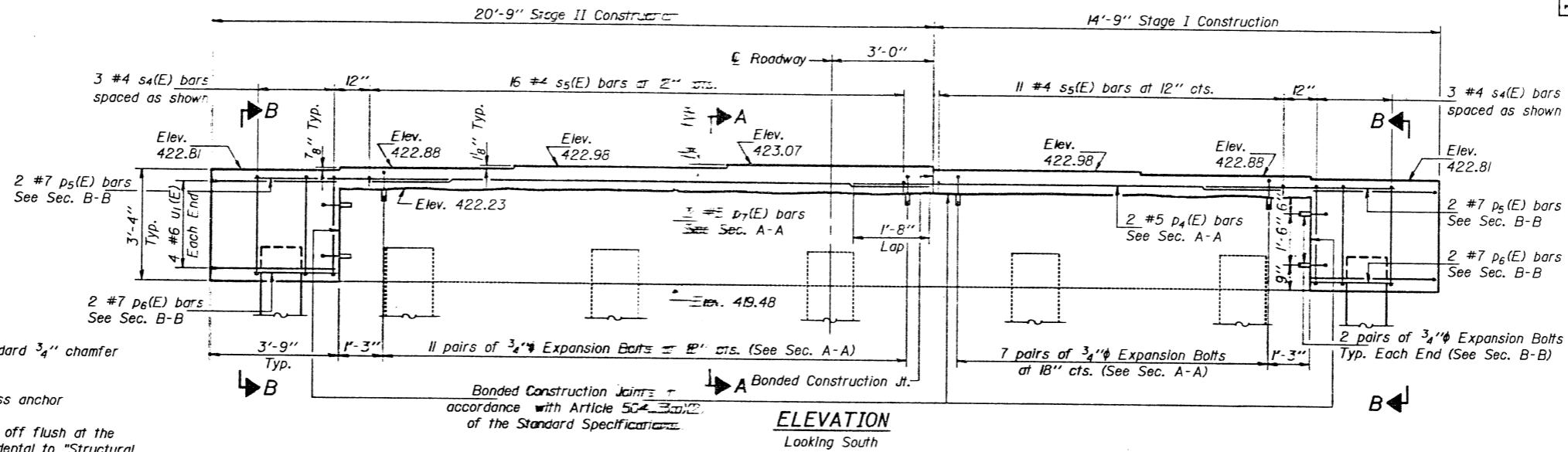
BENT 5
F.A.P. RT. 805 SEC. 127BR-1
CLINTON COUNTY
STATION 1423+25

PILE DATA

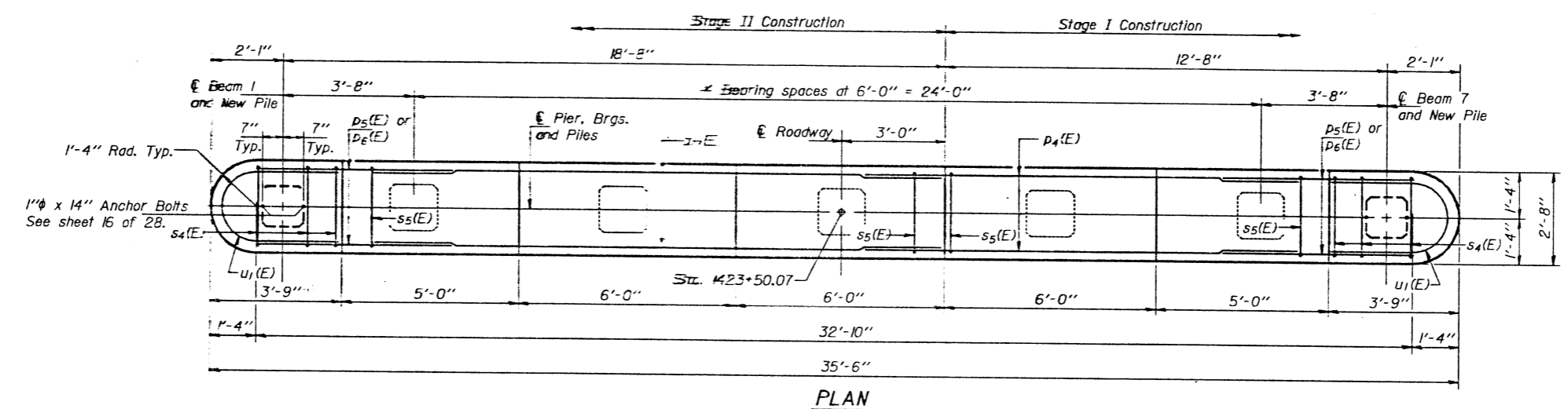
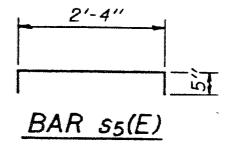
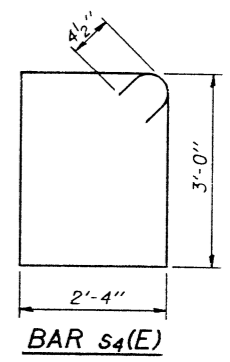
Type: Precast Concrete Piles 14"
 Capacity: 45 Ton
 Est. Length: 30'
 No. Required: 2

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	JOB NO.	SHEET
F.A.P.			70	28 SHEETS
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	



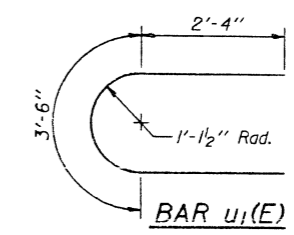
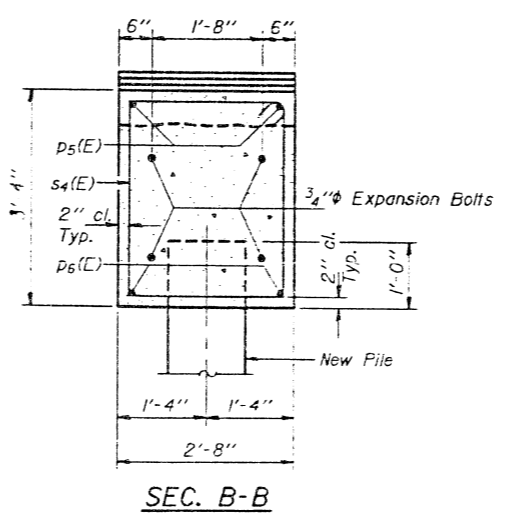
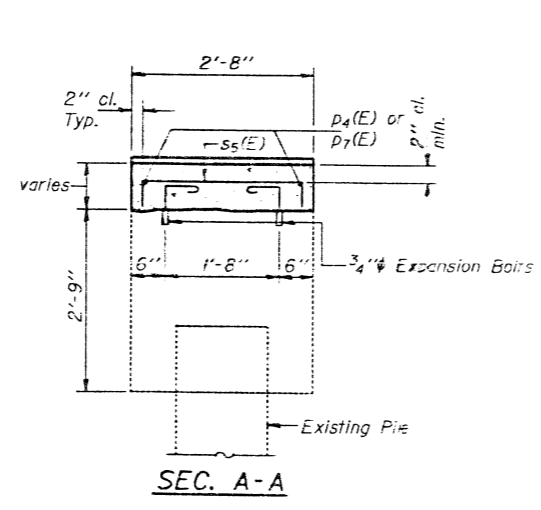
Notes: All exposed edges shall have standard 3/4" chamfer except as noted.
 Pour steps monolithically with cap.
 Space reinforcement in cap to miss anchor bolts.
 Existing anchor bolts shall be cut off flush at the concrete removal line. Cost is incidental to "Structural Steel".



BILL OF MATERIAL

Bar	No.	Size	Length	Shape
p4(E)	2	#5	12'-0"	—
p5(E)	4	#7	5'-6"	—
p6(E)	4	#7	2'-4"	—
p7(E)	2	#5	16'-3"	—
s4(E)	6	#4	11'-5"	□
s5(E)	27	#4	3'-2"	□
u1(E)	8	#6	8'-2"	C
Expansion Bolts 3/4"	Each		44	
Class X Concrete			Cu. Yd.	4.2
Reinforcement Bars Epoxy Coated			Pound	320
Precast Concrete Piles 14"			Lin. Ft.	60

Reinforcement bars designated (E) shall be epoxy coated.



DESIGNED	<i>Joseph Kasper</i>
CHECKED	<i>James J. Sutherland</i>
DRAWN	Joe Sutherland
CHECKED	M.S.A. L.S.H.

May 25 1989
 EXAMINED *Joseph J. Kasper*
 ENGINEER OF BRIDGE DESIGN
 PASSED *James J. Sutherland*
 ENGINEER OF BRIDGE AND STRUCTURES
 APPROVED _____
 DIRECTOR OF HIGHWAYS

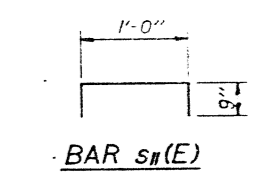
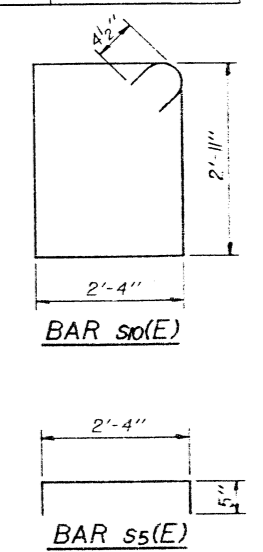
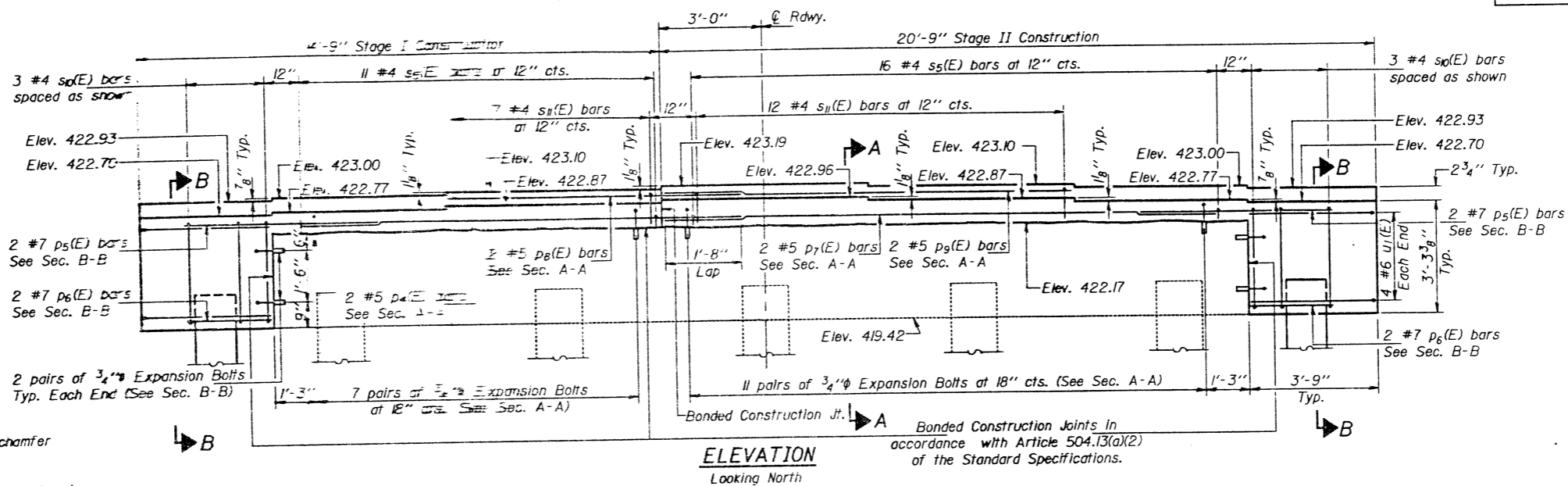
BENT 6
 F.A.P. RT. 805 SEC. 127BR-1
 CLINTON COUNTY
 STATION 1423+25

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	SHEET	SHEET NO. 24
			71	28 SHEETS
FILE NO. OR PROJ. NO.	BLANKS	FILE NO. PROJECT		

PILE DATA

Type: Precast Concrete Piles 14"
Capacity: 45 Ton
Est. Length: 30'
No. Required: 1 plus 1 test pile



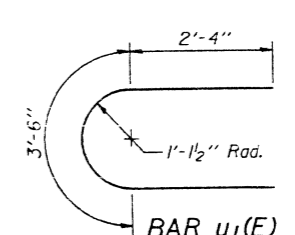
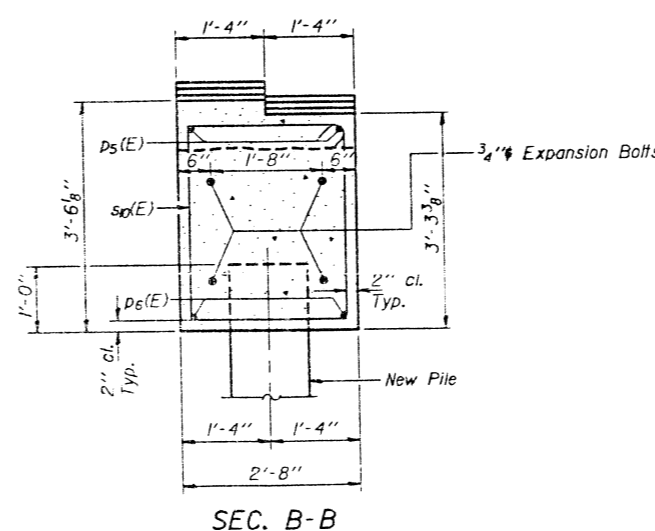
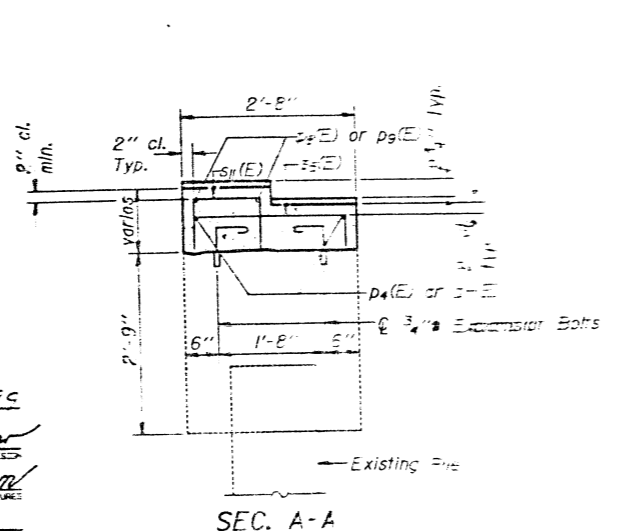
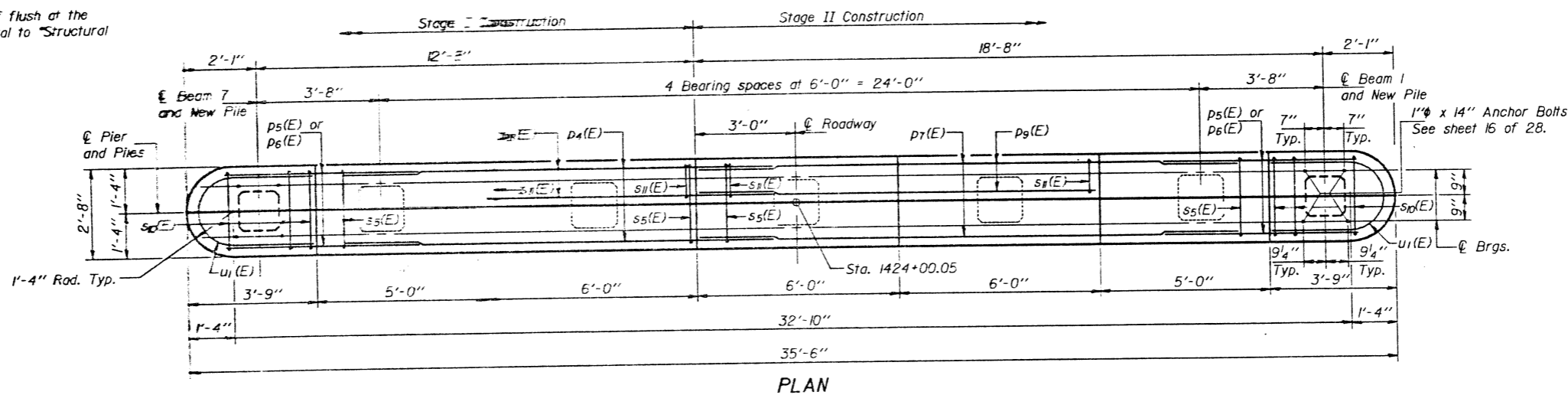
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
D4(E)	2	#5	12'-0"	—
D5(E)	4	#7	5'-6"	—
D6(E)	4	#7	2'-4"	—
D7(E)	2	#5	15'-3"	—
D8(E)	2	#5	7'-8"	—
D9(E)	2	#5	11'-9"	—
s5(E)	27	#4	3'-2"	□
s10(E)	6	#4	11'-3"	□
s11(E)	19	#4	2'-5"	□
u1(E)	8	#6	8'-2"	C
Expansion Bolts 3/4"	Each		44	
Class X Concrete	Cu. Yd.		4.4	
Reinforcement Bars Epoxy Coated	Pounds		400	
Precast Concrete Piles 14"	Lin. Ft.		30	
Test Pile Precast Concrete	Each		1	

Reinforcement bars designated (E) shall be epoxy coated.

BENT 7
F.A.P. RT. 805 SEC. 127BR-1
CLINTON COUNTY
STATION 1423+25

Notes: All exposed edges shall have standard 3/4" chamfer except as noted.
Pour steps monolithically with cap.
Space reinforcement and expansion bolts in cap to miss anchor bolts.
Existing anchor bolts shall be cut off flush at the concrete removal line. Cost is incidental to "Structural Steel".

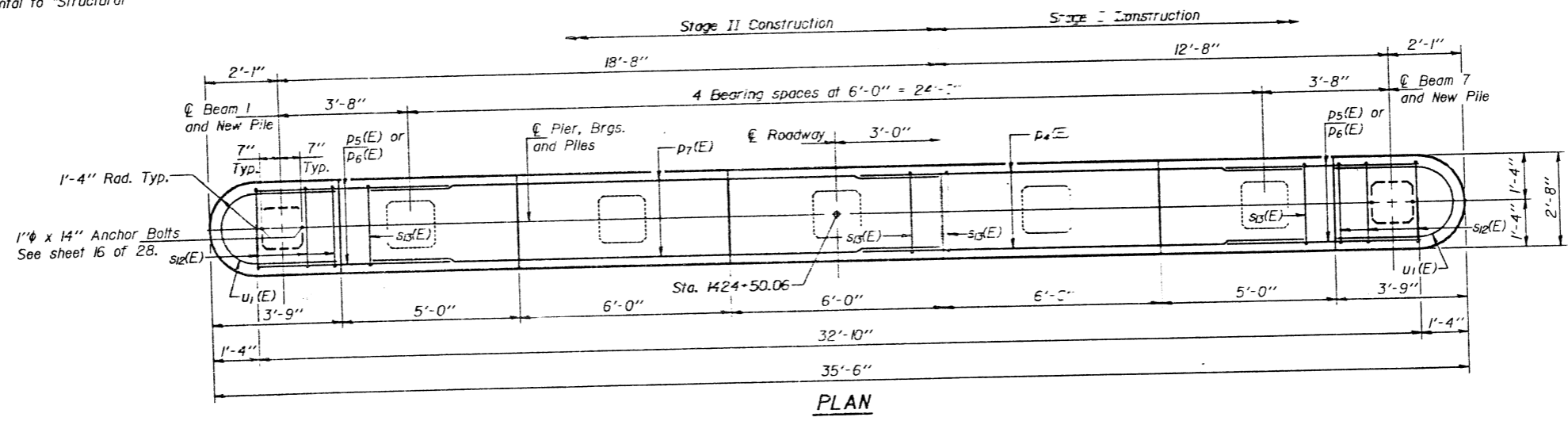
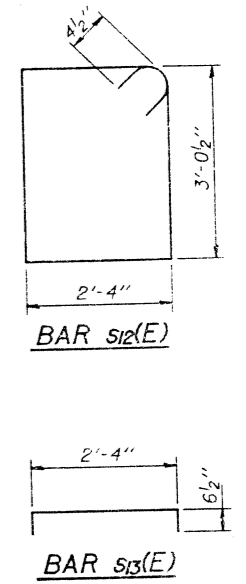
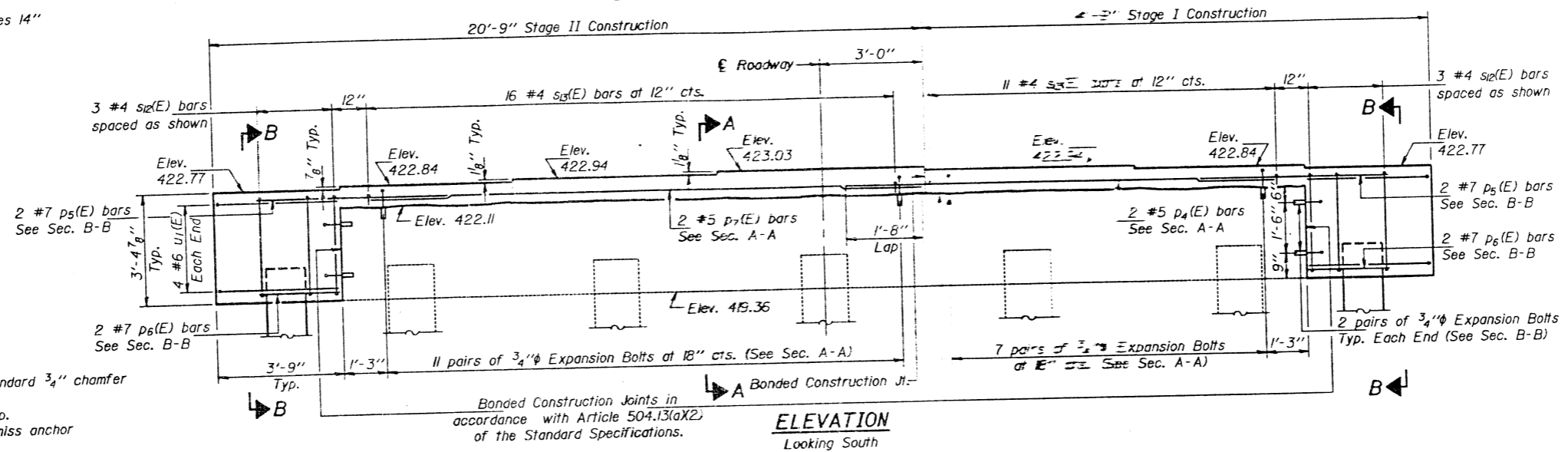


DESIGNED	Lee King Hwang	EXAMINED	May 25 1980 Craig O. Kaspar
CHECKED	Joe Sutherland	PASSED	James J. Sutherland
DRAWN	Joe Sutherland	APPROVED	
CHECKED	MCP LSH		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PILE DATA

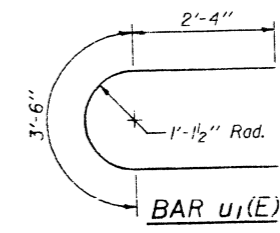
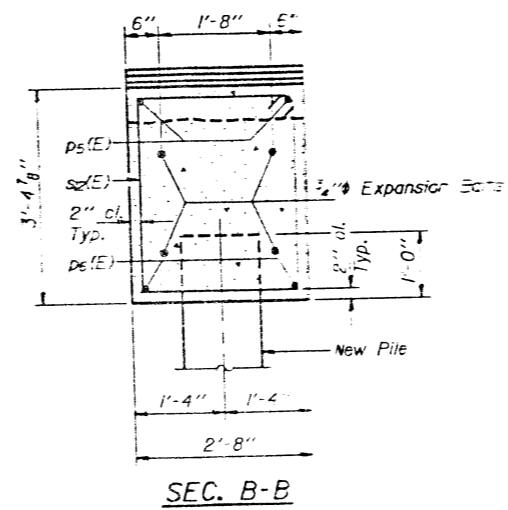
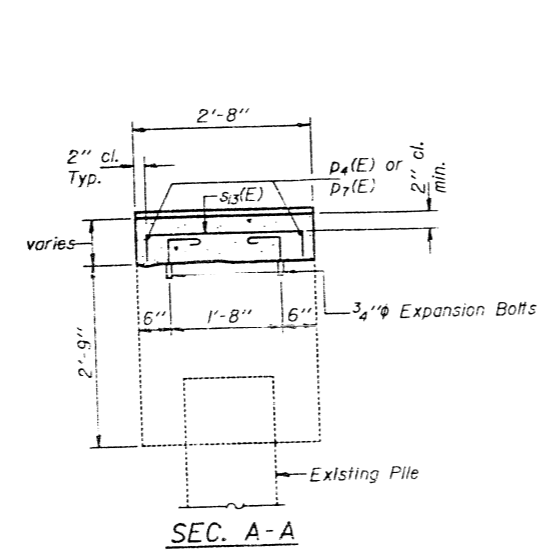
Type: Precast Concrete Piles 14"
Capacity: 45 Ton
Est. Length: 30'
No. Required: 2



BILL OF MATERIAL

Bar	No.	Size	Length	Shape
D ₄ (E)	2	#5	12'-0"	—
D ₅ (E)	4	#7	5'-6"	—
D ₆ (E)	4	#7	2'-4"	—
D ₇ (E)	2	#5	16'-3"	—
S ₂ (E)	6	#4	11'-6"	□
S ₃ (E)	27	#4	3'-5"	□
U ₁ (E)	8	#6	8'-2"	C
Expansion Bolts 3/4"	Each		44	
Class X Concrete	Cu. Yd.		4.5	
Reinforcement Bars Epoxy Coated	Found		330	
Precast Concrete Piles 14"	Lin. Ft.		60	

Reinforcement bars designated (E) shall be epoxy coated.



DESIGNED: [Signature]
CHECKED: [Signature]
DRAWN: Joe Sutherland
CHECKED: [Signature]

EXAMINED: [Signature] May 25 1989
PASSED: [Signature]
APPROVED: [Signature]

DIRECTOR OF HIGHWAYS

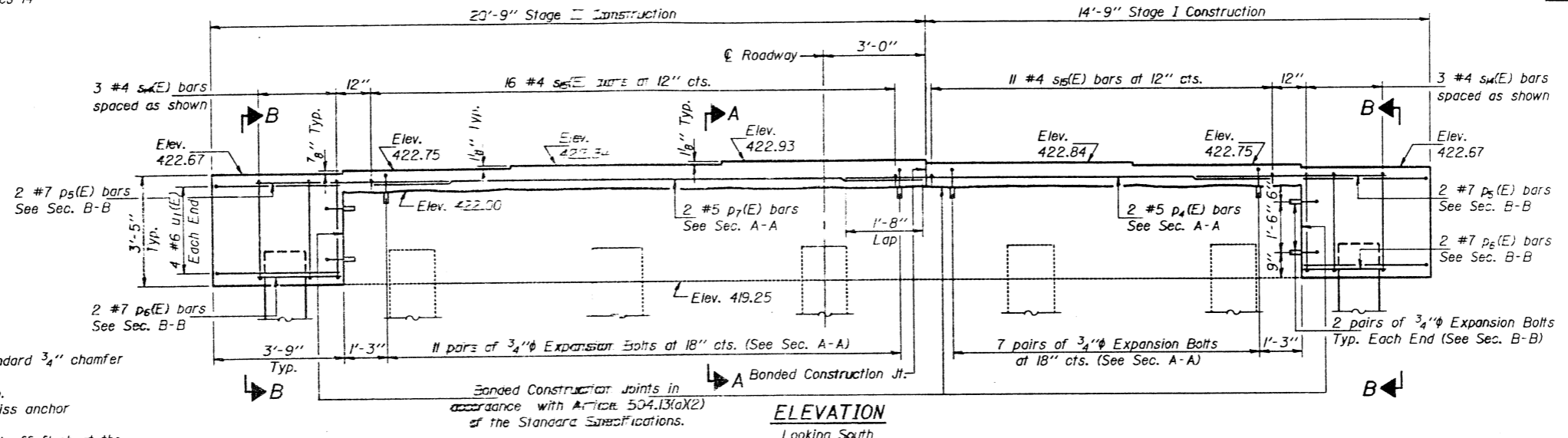
BENT 8
F.A.P. RT. 805 SEC. 127BR-1
CLINTON COUNTY
STATION 1423+25

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

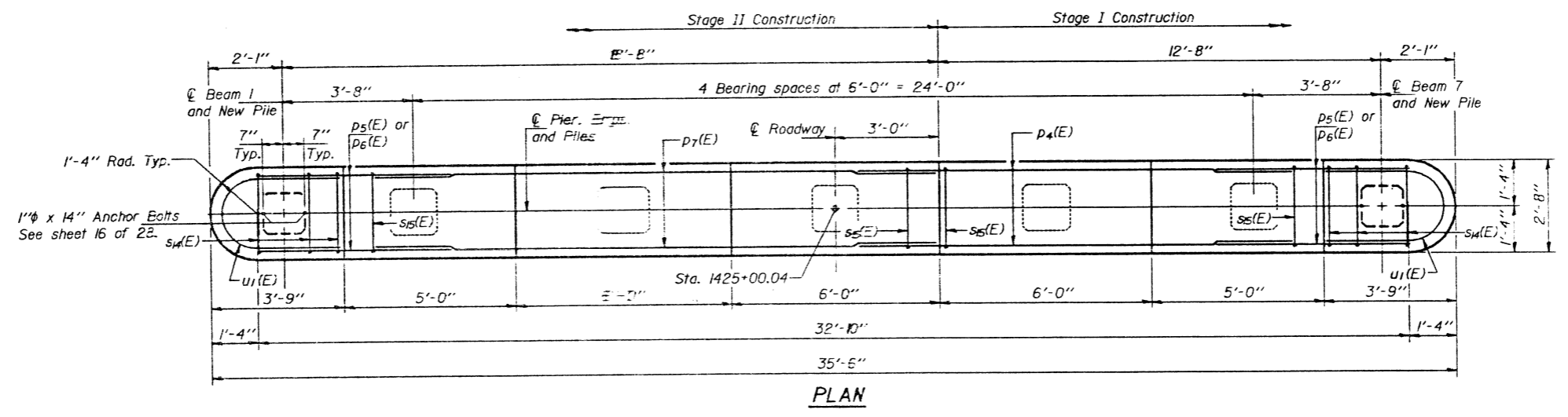
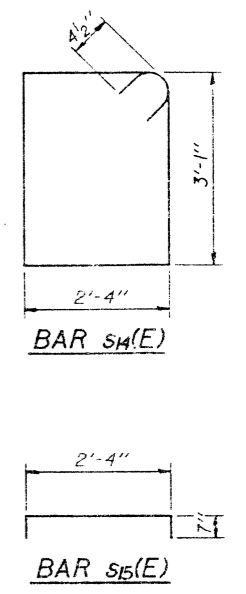
ROUTE NO.	SECTION	COUNTY	POST MILES	SHEET NO. 26
			73	28 SHEETS
FED. ROAD DIST. NO. 7	ELLIPSE	FED. AID PROJECT		

PILE DATA

Type: Precast Concrete Piles 14"
Capacity: 45 Ton
Est. Length: 30'
No. Required: 2



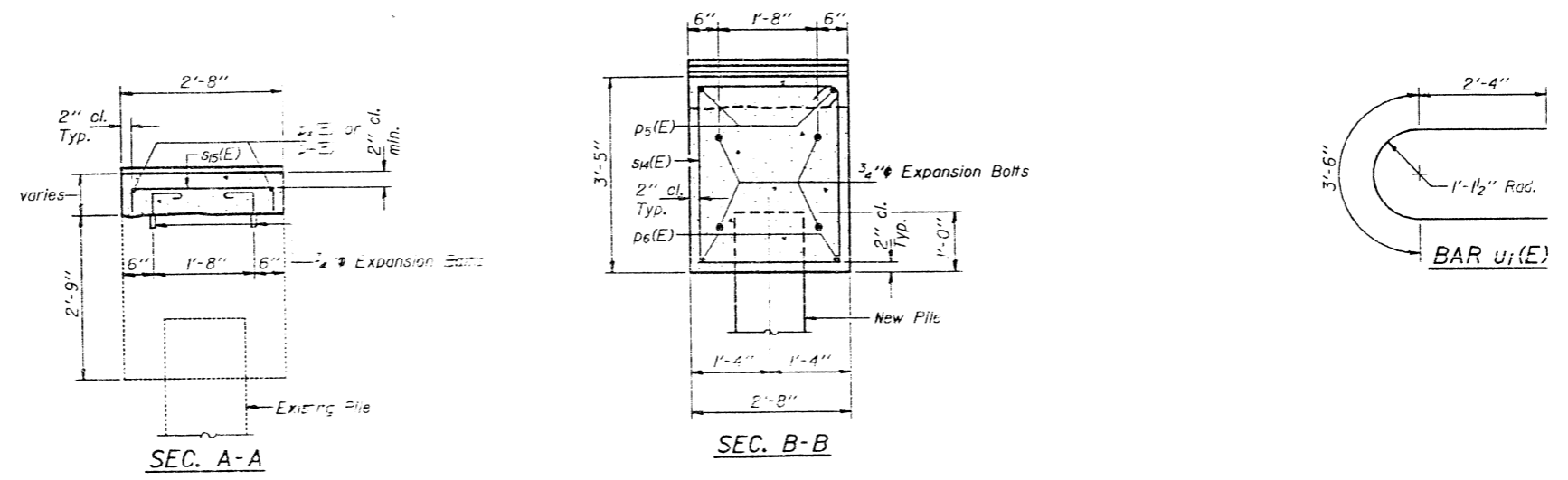
Notes: All exposed edges shall have standard 3/4" chamfer except as noted.
Pour steps monolithically with cap.
Space reinforcement in cap to miss anchor bolts.
Existing anchor bolts shall be cut off flush at the concrete removal line. Cost is incidental to "Structural Steel".



BILL OF MATERIAL

Bar	No.	Size	Length	Shape
p ₄ (E)	2	#5	12'-0"	—
p ₅ (E)	4	#7	5'-6"	—
p ₆ (E)	4	#7	2'-4"	—
p ₇ (E)	2	#5	16'-3"	—
s ₄ (E)	6	#4	11'-7"	□
s ₅ (E)	27	#4	3'-6"	□
u ₁ (E)	8	#5	8'-2"	C
Expansion Bolts 3/4"	Each		44	
Class X Concrete	Cu. Yd.		4.5	
Reinforcement Bars Epoxy Coated	Pound		330	
Precast Concrete Piles 14"	Lin. Ft.		60	

Reinforcement bars designated (E) shall be epoxy coated.

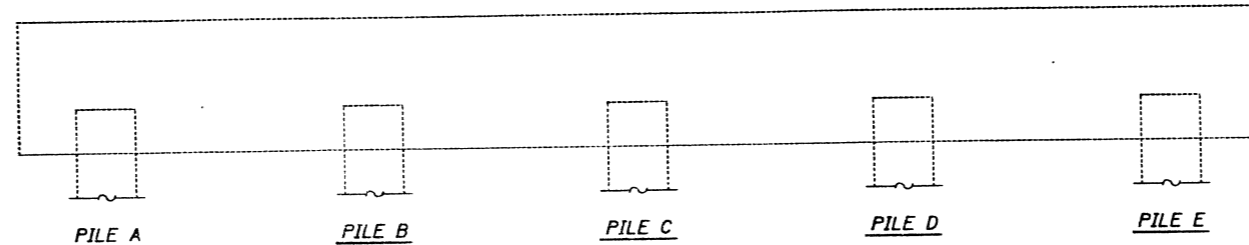


DESIGNED: [Signature]
CHECKED: [Signature]
DRAWN: Joe Sutherland
CHECKED: M.S.T. L.H.

EXAMINED: [Signature] May 25 1955
PASSED: [Signature]
APPROVED: [Signature]

BENT 9
F.A.P. RT. 805 SEC. 127BR-1
CLINTON COUNTY
STATION 1423+25

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



BENTS 3 THRU 9
Looking North

On Bent 5 a 14" long crack on south face of cap at Pile E shall be repaired by Epoxy Crack Sealing. Cost Incidental to Epoxy Mortar Repair.

EPOXY MORTAR REPAIR LOCATIONS

Location	Pile A	Pile B	Pile C	Pile D	Pile E
Bent 3	—	—	—	.17 Cu. Ft.	.33 Cu. Ft.
Bent 4	1.00 Cu. Ft.	.50 Cu. Ft.	.67 Cu. Ft.	.50 Cu. Ft.	.33 Cu. Ft.
Bent 5	.67 Cu. Ft.	—	—	.50 Cu. Ft.	—
Bent 6	.67 Cu. Ft.	.33 Cu. Ft.	.33 Cu. Ft.	.50 Cu. Ft.	.17 Cu. Ft.
Bent 7	.33 Cu. Ft.	.50 Cu. Ft.	.17 Cu. Ft.	—	—
Bent 8	.33 Cu. Ft.	—	—	—	—
Bent 9	.50 Cu. Ft.	—	—	—	—

BILL OF MATERIAL

Item	Unit	Total
Epoxy Mortar Repair	Cu. Ft.	8.5

* Quantity is based on an averaged thickness of 2", actual quantity to be adjusted in the field.

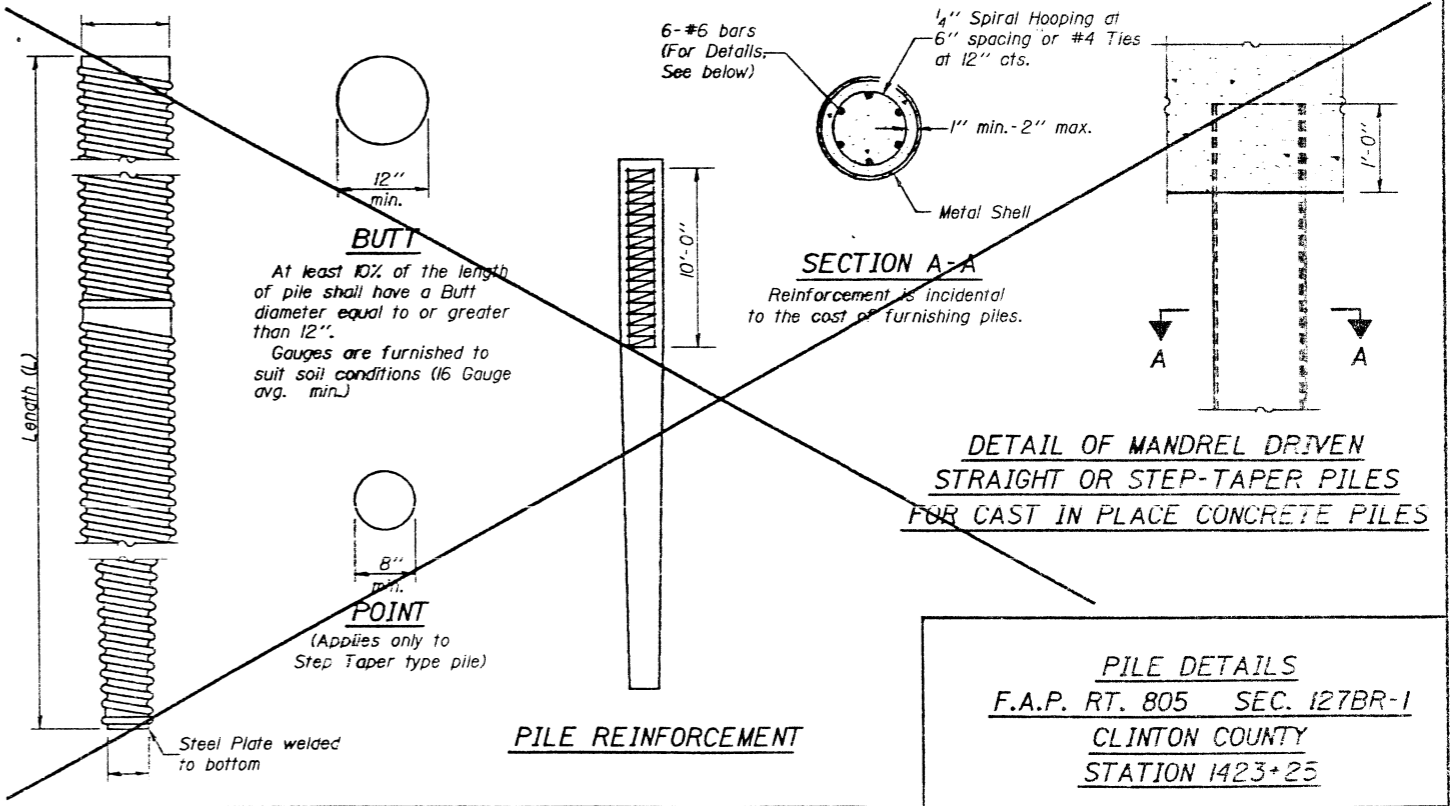
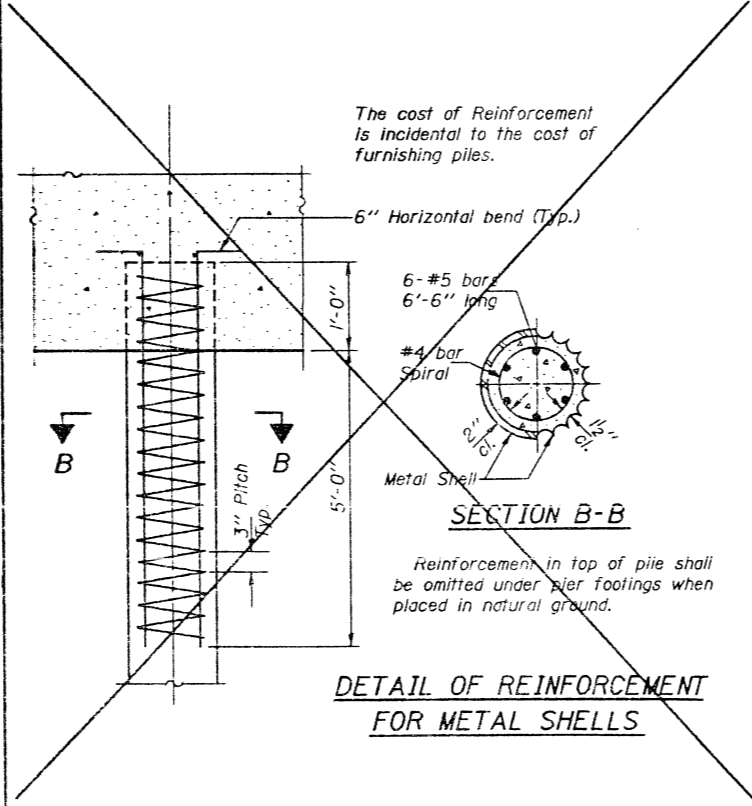
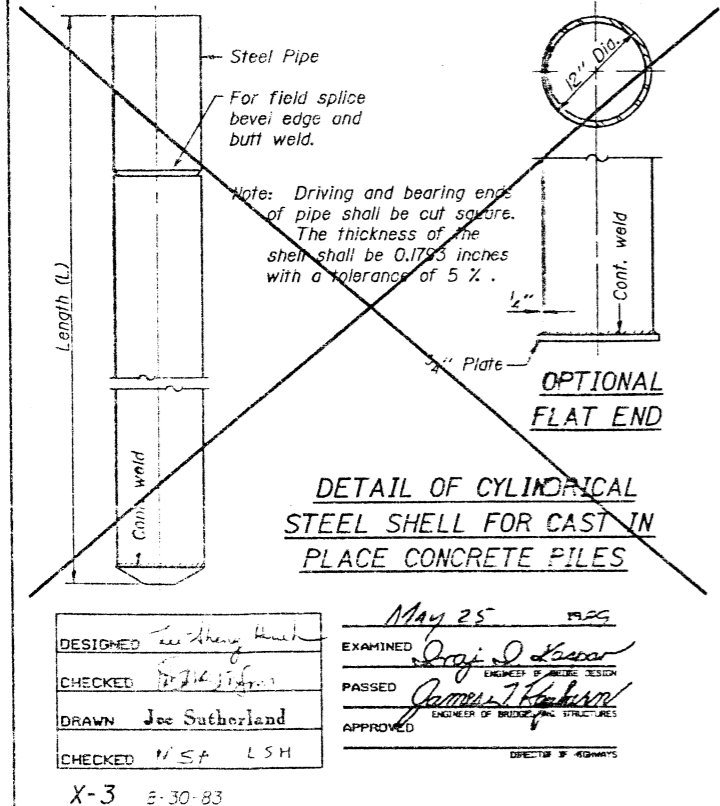
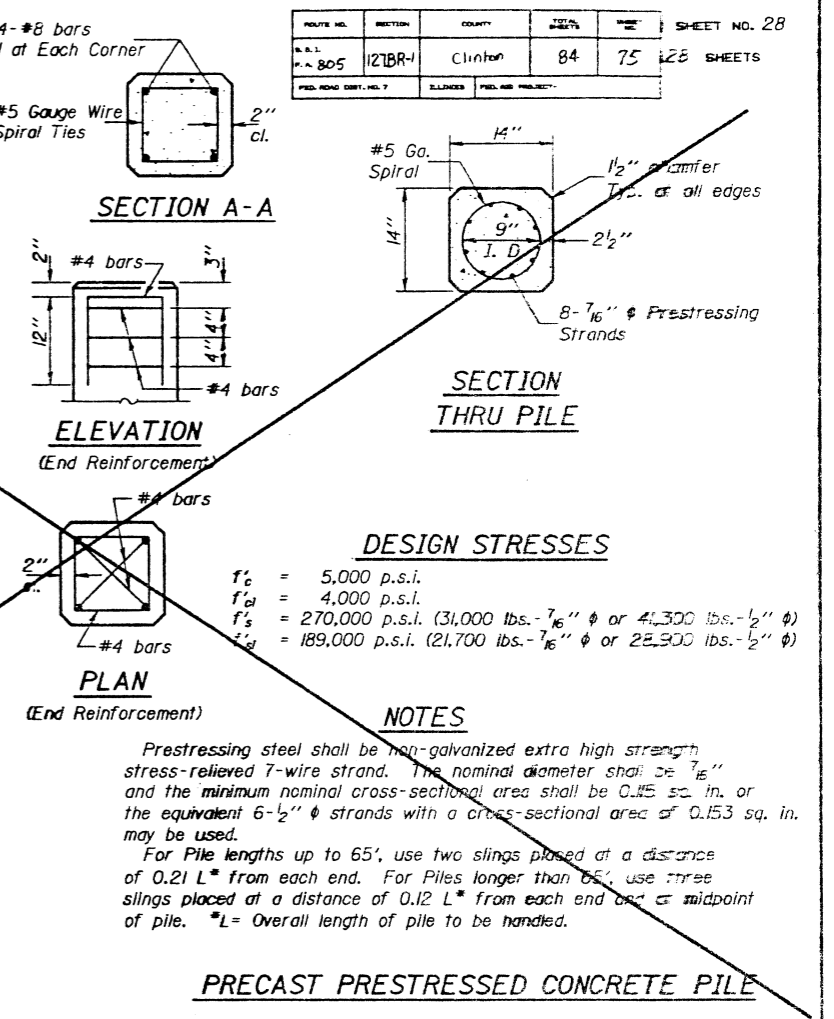
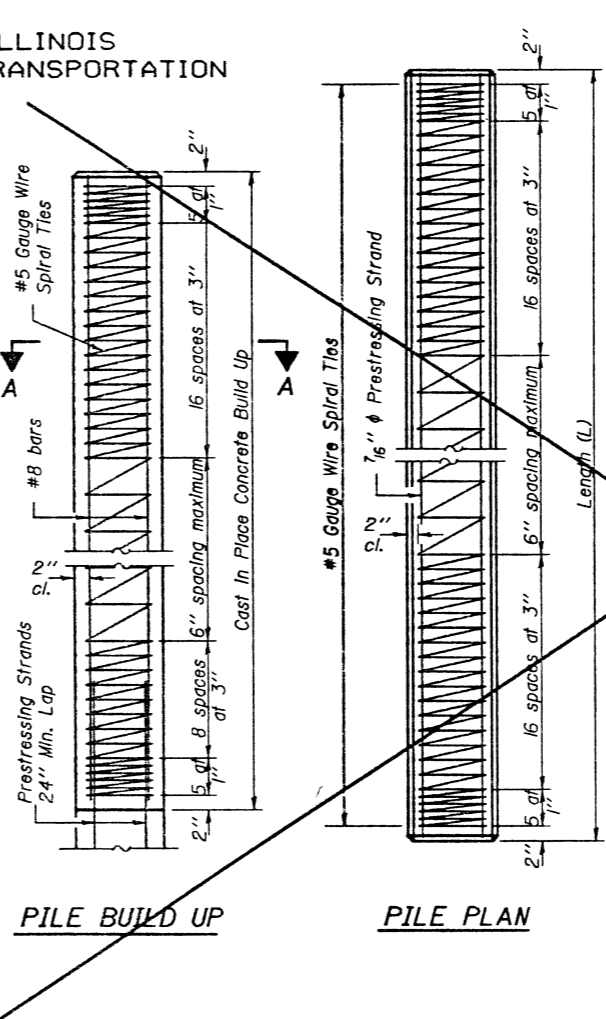
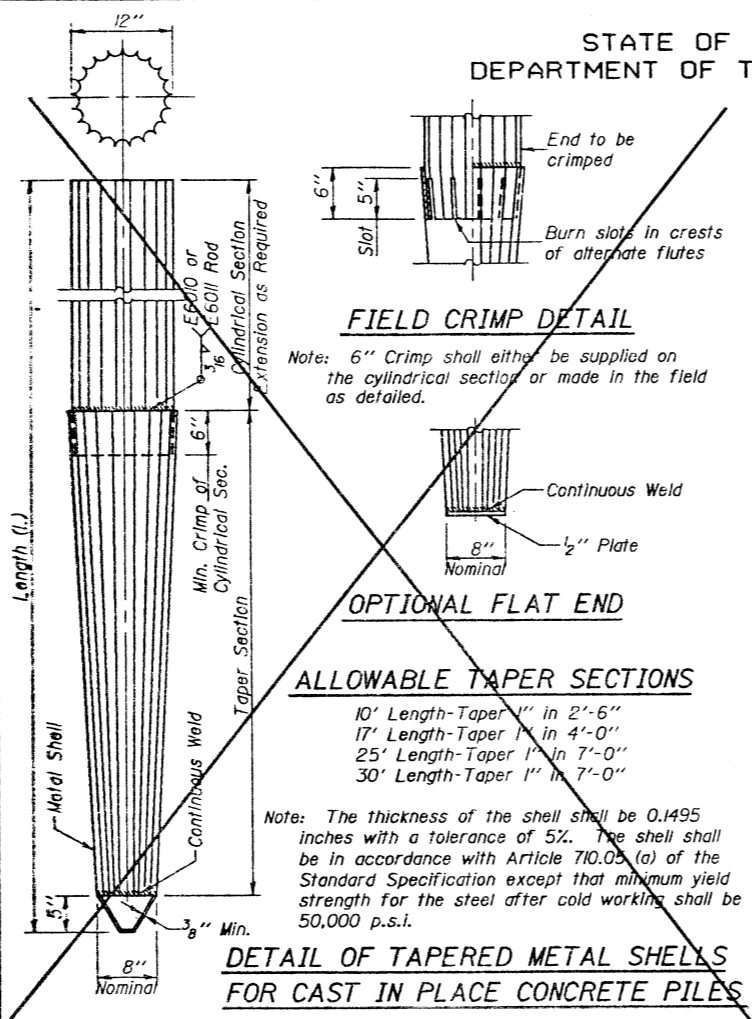
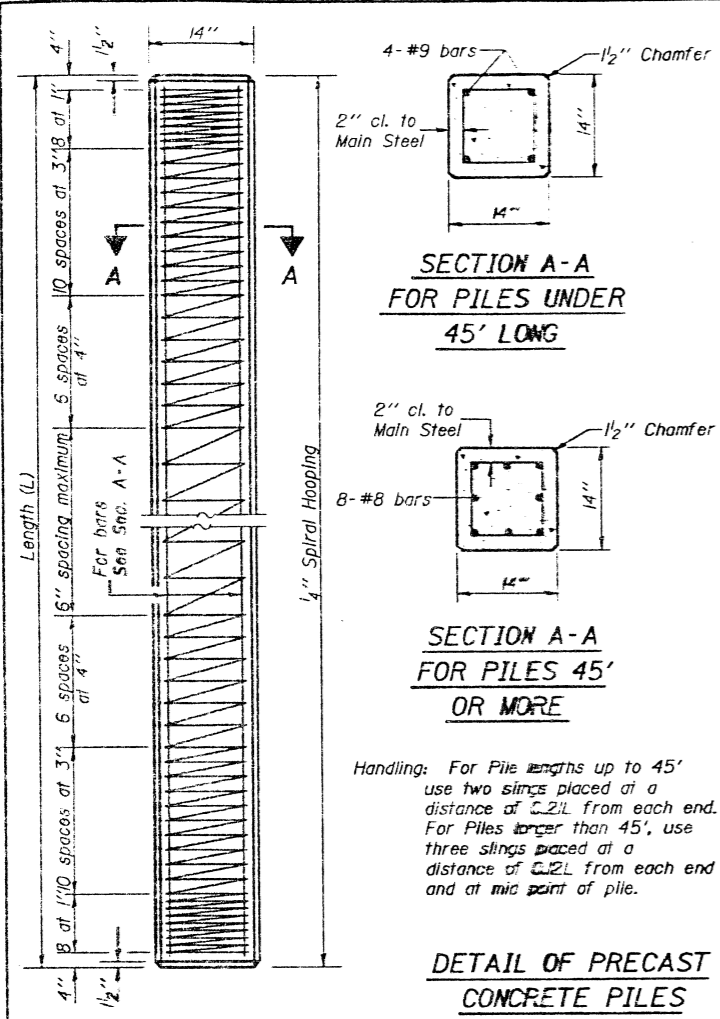
DESIGNED Richard R. Smith
 CHECKED Joe Sutherland
 DRAWN Joe Sutherland
 CHECKED MEP

EXAMINED May 25 1989
 PASSED James J. Hasler
 APPROVED James J. Hasler
ENGINEER IN CHARGE DESIGN
ENGINEER OF STRUCTURES
DIRECTOR OF HIGHWAYS

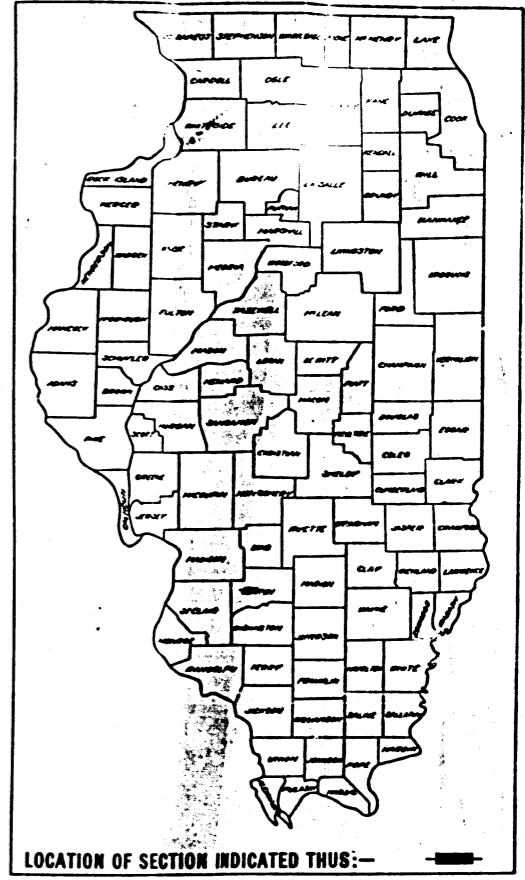
BENT REPAIR
 F.A.P. RT. 805 SEC. 127BR-1
 CLINTON COUNTY
 STATION 1423+25

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	DATE	NO.	SHEET NO. 28
805	127BR-1	Clinton	84	75	28 SHEETS
FED. ROAD DIST. NO. 7	ELIGIBLE	FED. AID PROJECT			



1. 10 INCH TYPE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
101	27	CLINTON	14	1
ROAD DIST. NO. 1 (CLINTON) TEL. NO. PROJECT				



LOCATION OF SECTION INDICATED THUS: —

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS AND BUILDINGS
DIVISION OF HIGHWAYS
PLANS FOR PROPOSED
STATE BOND ISSUE HIGHWAY

PLAN 1 INCH = 100 FT.
 PROFILE HOR. 1 INCH = 100 FT.
 PROFILE VERT. 1 INCH = 10 FT.
 CROSS-SECTIONS 1 INCH = 5 FT.

S. B. I. ROUTE 161 - SEC. 127-B CLINTON CO.

INDEX OF SHEETS.	
SHEET No.	TITLE PAGE
1	PLAN AND PROFILE, STA. 1390+00 TO 1420+00
2	" " " " 1420+00 " 1450+00
3	" " " " 1450+00 " 1477+00
4	" " " " " " " " " " " "
5, 6 and 7	SPECIAL BRIDGE DESIGN, STA. 1409+50 (2 SHEETS)
7, 8	" " " " " " " " " " " "
9, 10	" " " " " " " " " " " "
11	STANDARD 1178

SUMMARY OF QUANTITIES - SEC. B.

379.2	cu. yds.	CLASS A CONCRETE
348.9	cu. yds.	CLASS X CONCRETE
2122.0	lbs.	REINFORCEMENT BARS
4025	in. ft.	FURNISHING PRECAST CONCRETE PILES.
4025	in. ft.	DRIVING PRECAST CONCRETE PILES.
6	each	TEST PILES (CONCRETE)
5000	in. ft.	FURNISHING UNTREATED PILES UP TO 20 FT. LONG.
5000	in. ft.	DRIVING PILES UP TO 20 FT. LONG.
4	each	TEST PILES (WOOD)
2	each	REMOVAL OF OLD BRIDGE.
1613	bb's.	CEMENT.

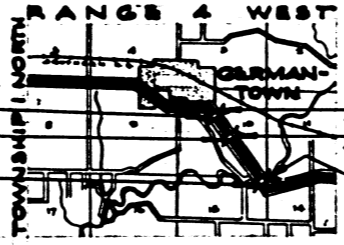
ONE I-BEAM BRIDGE, 8 SPANS AT 50 FT., AT STATION 1409+50, A POINT NEAR THE N.E. CORNER OF THE S.E. 1/4 OF THE N.W. 1/4 OF SEC. 10, T. 1 N., R. 4 W. OF THE 3RD P.M.
 ONE I-BEAM BRIDGE, 8 SPANS AT 50 FT., AT STATION 1423+25, A POINT NEAR THE N.W. CORNER OF THE S.E. 1/4 OF SEC. 10, T. 1 N., R. 4 W. OF THE 3RD P.M.
 ONE STEEL BRIDGE, 1 SPAN AT 160 FT., 2 I-BEAM APPROACH SPANS AT 50 FT., AT STATION 1401+55, A POINT NEAR THE N.E. CORNER OF SEC. 15, T. 1 N., R. 4 W. OF THE 3RD P.M.

SUMMARY OF QUANTITIES - SEC. C.

1008	cu. yds.	HANDRAIL CONCRETE.
780.9	cu. yds.	CLASS X CONCRETE.
19134.0	lbs.	REINFORCEMENT BARS
23321.0	lbs.	STRUCTURAL STEEL
165	each	FLOOR DRAINS
3	each	NAME PLATES
1425	bb's.	CEMENT.

SEC. 127B INCLUDES:

2 C. SUBSTRUCTURES FOR 8 STEEL SPANS FOR ONE BRIDGE AT STA. 1409+50.
 2 C. SUBSTRUCTURES FOR 8 STEEL SPANS FOR ONE BRIDGE AT STA. 1423+25.
 2 C. SUBSTRUCTURES FOR 1 STEEL SPAN AND 2 I-BEAM APPROACH SPANS FOR THE BRIDGE AT STA. 1401+55.



SEC. 127C INCLUDES:

STEEL SUPERSTRUCTURE, 8 SPANS AT 50 FT., FOR ONE BRIDGE AT STA. 1409+50.
 STEEL SUPERSTRUCTURE, 8 SPANS AT 50 FT., FOR ONE BRIDGE AT STA. 1423+25.
 STEEL SUPERSTRUCTURE, 1 SPAN AT 160 FT., AND 2 I-BEAM APPROACH SPANS AT 50 FT., FOR THE BRIDGE AT STA. 1401+55.

LAYOUT

APPROXIMATE SCALE: 1 inch = 1 mile.



STATE LINE	=====	RETAINING WALL	=====
COUNTY LINE	=====	BASE OR SURVEY LINE	=====
CITY, VILLAGE OR TOWN	=====	LEVEE	=====
TOWNSHIP LINE	=====	CIV. VERT.	=====
SECTION LINE	=====	STORM SEWER	=====
GRANT LINE	=====	TILE DRAIN	=====
SECTION CORNER	=====	DROP INLET	=====
FENCE LINE	=====	TROLLEY POLE	=====
UNFENCED PROPERTY	=====	POWER POLE	=====
RIGHT OF WAY LINE	=====	TELEPHONE OR TELEGRAPH POLE	=====
GUARD RAIL	=====	MARSH	=====
STEAM RAILROAD	=====	HEDGE	=====
ELECTRIC RAILROAD	=====		

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS AND BUILDINGS
DIVISION OF HIGHWAYS

DATE: AUGUST 8, 1928

DESIGNED BY: E. A. MURPHY

ENGINEER: E. D. WYBORN

IN CHARGE: J. H. WILSON

APPROVED: [Signature]

APPROVED: [Signature]

B.M. - NW. Root 52' Collenwood 2' Lt. Sta. 1422+3 - Elev. 418.71
 S.E. Cor. Angle Iron Abut. 150' Lt. Sta. 1424+37 - Elev. 419.61
 No Existing Structure to be removed.

461' 2"

ROUTE NO.	SEC.	COUNTY	TOWNSHIP	RANGE
161	127A	CLINTON	15	2
PUB. ROAD DIST. NO. 7		PLANNED	PUB. ROAD PROJECT	

○
Bents 417

Three
 as directed by
 the Engineer



No. 3, 5 and 7

- 1080
- 1080
- 822
- 740
- 66
- 40
- 12
- 8
- 28
- 4
- 48
- 176
- 8
- 32
- 8

5	section
C	
C	
C	
C	
C	
C	
C	
C	
C	
C	
C	
C	
C	
B	

2, 3, 5, 6, 8 and 9
 35' 0"

417

Test Piles Each 5 B

H.J. Brickner, Jr.
 N.H. Jackson

8-11-34
 J.F. Church
 W. Johnson
 E. Johnson

S.B.I. Rts. 161 - SEC. 127-B1C.
 CLINTON COUNTY
 STA. 1423+25

Std. 1644

