

Benchmark: Chiseled "□" top of Northwest wingwall of SN 006-0009 Sta. 422+56.68, 24.27' Rt. Elev. = 645.90

Existing Structures: SN 006-0009 (EB) and SN 006-0010 (WB) Built in 1963 as F.A.I. 80, Section 06-2B, at Sta. 423+15. Existing Superstructure consists of concrete deck on steel beams with a bituminous overlay. The Substructure consists of reinforced concrete spill-thru abutments supported by concrete piles and reinforced concrete solid shaft piers supported by a spread footing and timber piles. 109'-0" Bk. to Bk. abutments. 43'-8" out-to-out deck. Concrete deck to be removed and replaced using stage construction.

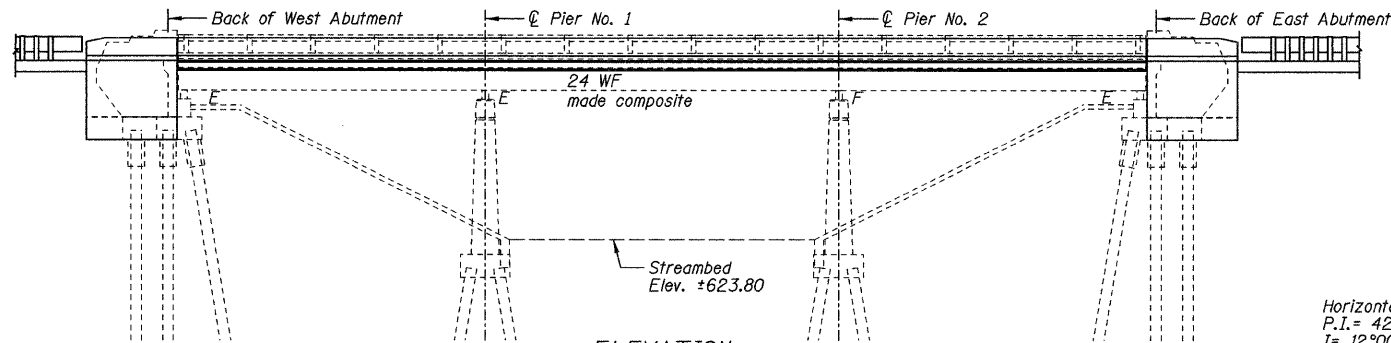
No Salvage.

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

See Sheet 2 of 25 for Index of Bridge Plans, Total Bill of Materials and General Notes

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 1 29 SHEETS
F.A.I. 80	*	BUREAU	116	79	
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-			

Contract #66623  
\* (06-1, 2)RS-3, I

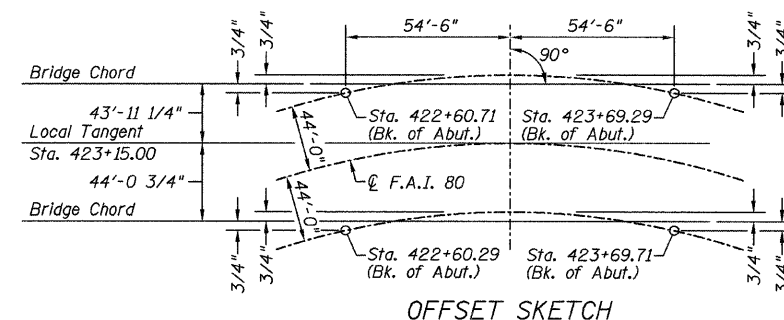


ELEVATION

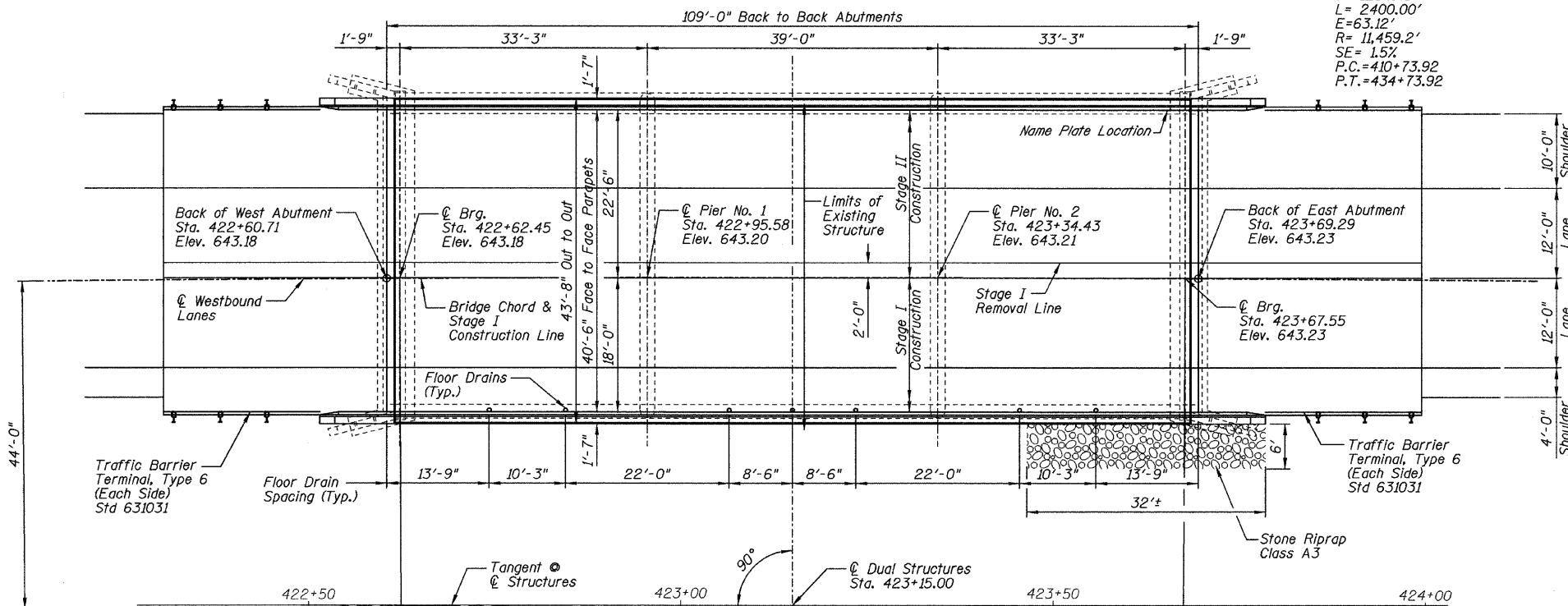
STATION 423+15  
RE-BUILT BY  
STATE OF ILLINOIS  
F.A.I. 80 SEC. (06-1, 2)RS-3, I  
LOADING HS-20-44  
STR. NO. 006-

NAME PLATE  
See Std. 515001

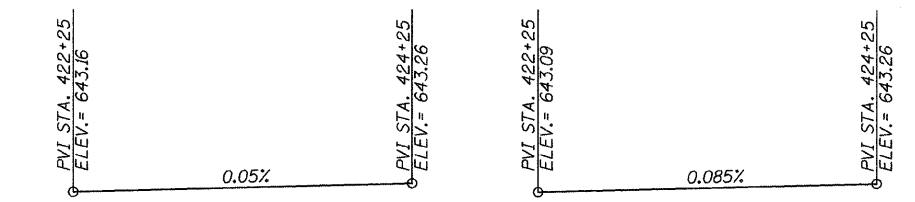
Horizontal Curve Data  
P.I. = 422+78.33  
I = 12°00'00"  
D = 0°30'00"  
T = 1204.41'  
L = 2400.00'  
E = 63.12'  
R = 11,459.2'  
SE = 1.5%  
P.C. = 410+73.92  
P.T. = 434+73.92



OFFSET SKETCH



PLAN



PROPOSED PROFILE SN 006-0010  
(I-80 WBL)

PROPOSED PROFILE SN 006-0009  
(I-80 EBL)

SCOPE OF WORK

1. Remove and replace existing concrete deck.
2. Jack and remove existing bearings at the abutments and install new elastomeric bearings.
3. Slope wall repair.
4. Epoxy crack injection of cracks on the abutments, and piers.
5. Structural repair of concrete at all appropriate areas on the abutments, piers, and slopewalls.
6. Place Class A3 riprap at the southeast wingwall of SN 006-0010.
7. Remove and replace existing preformed expansion joints with strip seal joints.
8. Remove and replace wingwalls.
9. Beams are to be composite in positive moment regions.

LOADING HS20-44 & ALT. MIL. LOAD (New Const.)

Allow 50#/sq. ft. for future wearing surface

DESIGN SPECIFICATIONS (New Const.)

2002 AASHTO

DESIGN STRESSES

FIELD UNITS (New construction)

$f'_c = 3,500$  psi  
 $f_y = 60,000$  psi (reinforcement)

FIELD UNITS (Exist. construction)

$f'_c = 3,500$  psi  
 $f_y = 40,000$  psi (reinforcement)  
 $f_y = 36,000$  psi (structural steel)

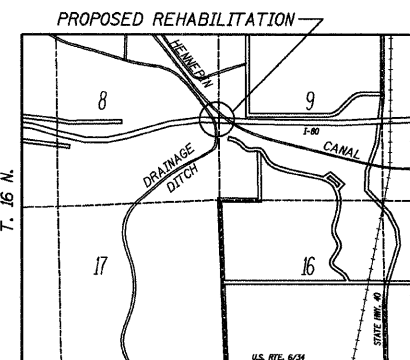
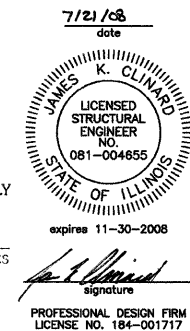
SEISMIC DATA

S.P.C. A  
A = 0.04  
S = 1.0

CHAMLIN & ASSOCIATES  
PERU ILLINOIS MORRIS

APPROVED  
FOR STRUCTURAL ADEQUACY ONLY

Ralph E. Anderson  
ENGINEER OF BRIDGES AND STRUCTURES



LOCATION SKETCH

GENERAL PLAN  
F.A.I. 80 (I-80) OVER DRAINAGE DITCH  
SECTION (06-1, 2)RS-3, I  
BUREAU COUNTY  
SN 006-0009 (EB)  
SN 006-0010 (WB)  
STA. 423+15

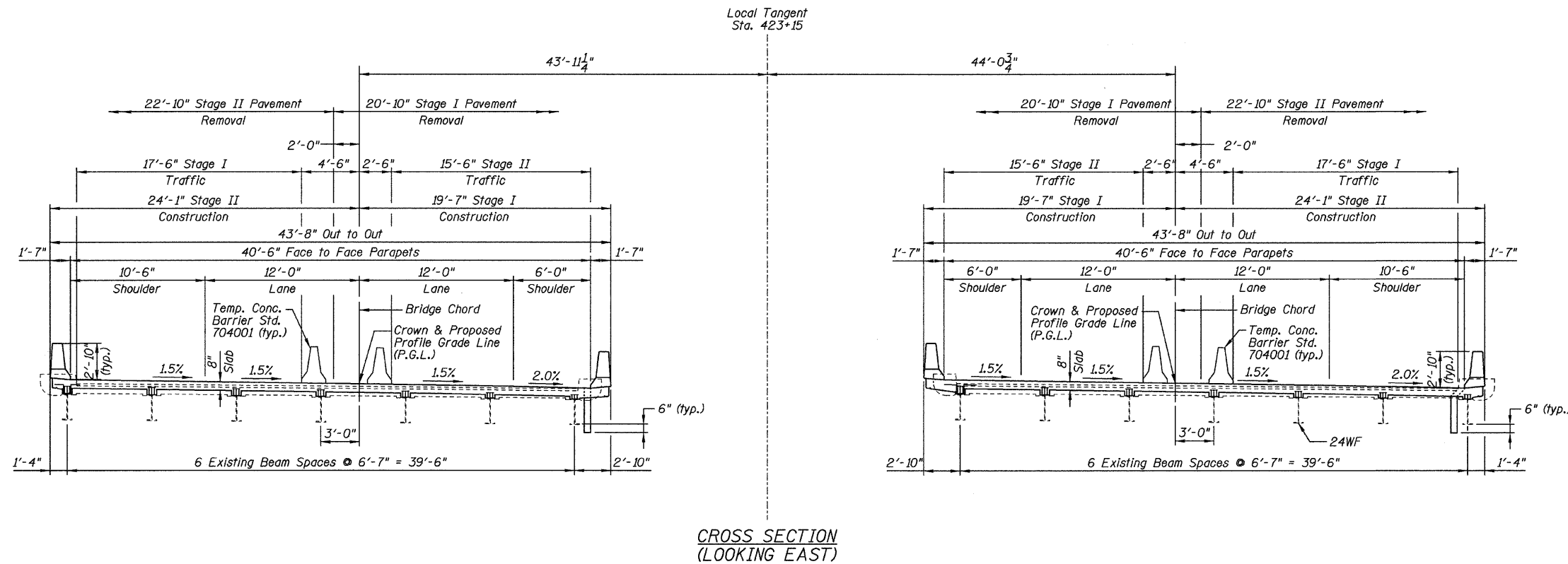
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CHECKED	JLS
DRAWN	LAG/NOE
CHECKED	JKC

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 80	#	BUREAU	116	80
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 2  
29 SHEETS

Contract #66623  
\* (06-1, 2)RS-3, I



Index of Bridge Plans

1. General Plan
2. General Notes and Bill of Materials
- 3-5. Deck Elevations
- 6-9. Approach Pavement Elevations
- 10-11. Superstructure Plan and Section
12. Superstructure Details
13. Framing Details
14. Preformed Joint Strip Seal
15. Bearing Details
- 16-17. Abutment Details
18. Wingwall Details
19. Slope Wall Repair Plan
- 20-25. Foundation Repair Plans
26. Temporary Concrete Barrier
27. Bar Splicer Assembly Details
28. Cantilever Forming Brackets
29. Concrete Parapet Slipforming Option

GENERAL NOTES:

1. No field welding is permitted except as specified in the contract documents.
2. Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60 (IL Modified). See Special Provisions.
3. Reinforcement bars designated (E) shall be epoxy coated.
4. 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 an individual acceptable to the Engineer. Any cracks that cannot be removed by grinding 1/4 inch deep shall be identified and reported to the Bureau of Bridges and Structures for further disposition. The cost of removing welded accessories, grinding and inspecting weld areas and grinding cracks will be paid for according to Article 109.04 of the Standard Specifications.
5. Plan dimensions and details relative to existing plans are subject to routine 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 based upon the unit price bid for the work.
6. Cleaning and field painting of structural steel shall be done under a separate painting contract.
7. The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to deal with the presence of lead on this project.
8. Layout of slope protection system may be varied in the field to suit ground conditions as directed by the Engineer.
9. If the Contractor elects to use cantilever forming brackets on the exterior beams or girders, the brackets shall be placed at the same locations as required for the hardwood blocks in Article 503.06(b) of the Standard Specifications. If additional cantilever forming brackets are required, hardwood blocking shall be wedged between the exterior and first interior beam at each of these additional bracket locations.
10. Clean and relocate existing name plate adjacent to new name plate. Cost included with name plate.
11. Partial depth saw cutting of existing concrete deck over the top of the existing beam flanges shall be permitted. See Special Provision for Removal of Existing Non-Composite Bridge Deck.
12. All new structural steel shall be shop painted with an inorganic zinc rich primer per AASHTO M300, Type 1.

DESIGNED	JKC
CHECKED	JLS
DRAWN	LAG/NOE
CHECKED	JKC

TOTAL BILL OF MATERIALS

DESCRIPTION	UNIT	SN 006-0009 (EB)		SN 006-0010 (WB)		TOTAL
		SUPER	SUB	SUPER	SUB	
STONE RIPRAP, CLASS A3	SQ. YD.	-	0	-	24	24
FILTER FABRIC	SQ. YD.	-	0	-	24	24
CONCRETE REMOVAL	CU. YD.	-	20	-	20	40
SLOPE WALL REMOVAL	SQ. YD.	-	9	-	16	25
REMOVAL OF EXISTING CONCRETE DECK NO. 2	EACH	1	-	1	-	2
STRUCTURE EXCAVATION	CU. YD.	-	115	-	116	231
FLOOR DRAINS	EACH	7	-	7	-	14
CONCRETE STRUCTURES	CU. YD.	-	32	-	32	64
CONCRETE SUPERSTRUCTURE	CU. YD.	154.8	-	154.9	-	309.5
BRIDGE DECK GROOVING	SQ. YD.	456.5	-	456.5	-	913
PROTECTIVE COAT	SQ. YD.	597.5	-	597.5	-	1195
FURNISHING AND ERECTING STRUCTURAL STEEL	POUND	2095	-	2095	-	4190
STUD SHEAR CONNECTORS	EACH	3178	-	3178	-	6356
JACK AND REMOVE EXISTING BEARINGS	EACH	14	-	14	-	28
REINFORCEMENT BARS, EPOXY COATED	POUND	31980	3600	31980	3600	71160
BAR SPLICERS	EACH	288	88	288	88	752
SLOPE WALL 4 INCH	SQ. YD.	-	9	-	16	25
NAME PLATES	EACH	1	-	1	-	2
PREFORMED JOINT STRIP SEAL	FOOT	85	-	85	-	170
ELASTOMERIC BEARING ASSEMBLY, TYPE I	EACH	14	-	14	-	28
ANCHOR BOLTS, 1"	EACH	28	-	28	-	56
EPOXY CRACK INJECTION	FOOT	-	68	-	65	133
STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SQ. FT.	-	36	-	68.5	104.5

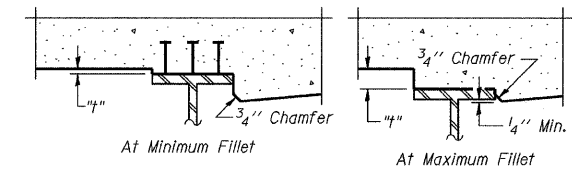
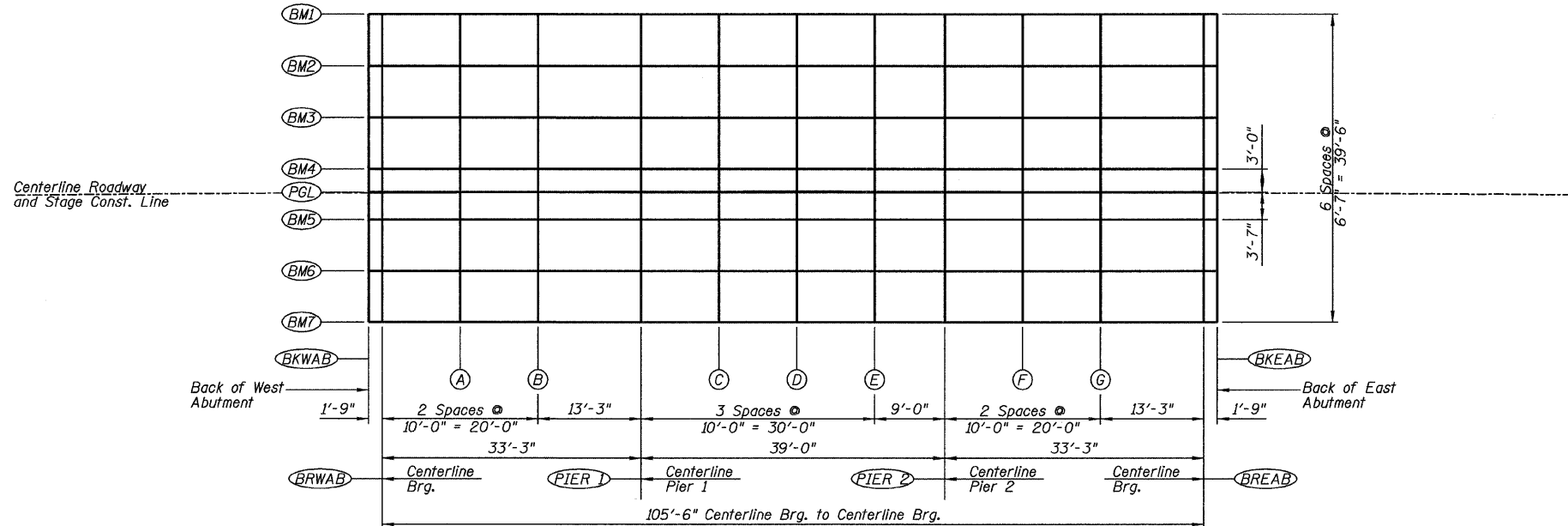
GENERAL NOTES AND BILL OF MATERIALS  
F.A.I. 80 (I-80) OVER DRAINAGE DITCH  
SECTION (06-1, 2)RS-3, I  
BUREAU COUNTY  
SN 006-0009 (EB)  
SN 006-0010 (WB)  
STA. 423+15

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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

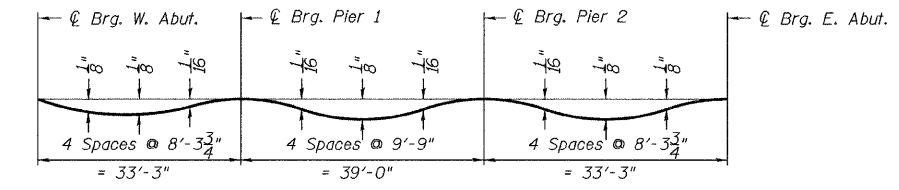
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 3
F.A.I. 80	*	BUREAU	116	81	29 SHEETS
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-			

Contract #66623  
\* (06-1, 2)RS-3, I



To determine "h": 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 on sheets 4 & 5, minus slab thickness, equals the fillet heights "h" above top flange of beams.

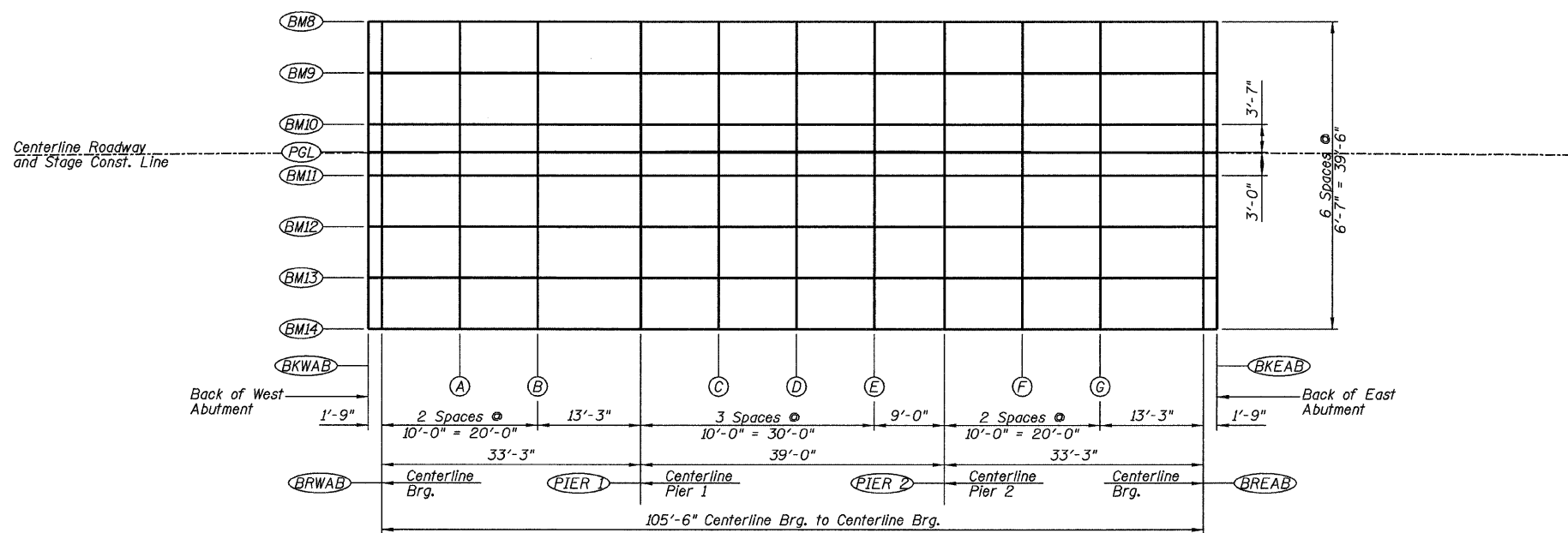
**FILLET HEIGHTS**



**DEAD LOAD DEFLECTION DIAGRAM**

(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 on sheets 4 & 5.



DESIGNED	NV
CHECKED	JKC
DRAWN	NOE
CHECKED	JKC

**DECK ELEVATIONS**  
F.A.I. 80 (I-80) OVER DRAINAGE DITCH  
SECTION (06-1, 2)RS-3, I

**CHAMLIN & ASSOCIATES**  
PERU ILLINOIS MORRIS

BUREAU COUNTY  
SN 006-0009 (EB)  
SN 006-0010 (WB)  
STA. 423+15

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 80	#	BUREAU	116	82
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

SHEET NO. 4  
29 SHEETS

Contract #66623  
\* (06-1, 2)RS-3, I

SCREED ELEVATION FOR BEAM BM1				
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BKWAB	422+60.82	-66.82	643.5202	643.5202
BRWAB	422+62.56	-66.81	643.5209	643.5209
A	422+72.50	-66.77	643.5253	643.5343
B	422+82.44	-66.73	643.5297	643.5380
PIER 1	422+95.61	-66.70	643.5358	643.5358
C	423+05.56	-66.69	643.5406	643.5448
D	423+15.50	-66.69	643.5456	643.5529
E	423+25.44	-66.69	643.5506	643.5541
PIER 2	423+34.39	-66.70	643.5552	643.5552
F	423+44.33	-66.73	643.5606	643.5679
G	423+54.27	-66.76	643.5660	643.5760
BREAB	423+67.45	-66.81	643.5734	643.5734
BKEAB	423+69.18	-66.82	643.5744	643.5744

SCREED ELEVATION FOR BEAM BM4				
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BKWAB	422+60.72	-47.07	643.2239	643.2239
BRWAB	422+62.47	-47.06	643.2246	643.2246
A	422+72.43	-47.02	643.2290	643.2380
B	422+82.38	-46.98	643.2334	643.2417
PIER 1	422+95.58	-46.95	643.2395	643.2395
C	423+05.54	-46.94	643.2444	643.2486
D	423+15.50	-46.94	643.2494	643.2567
E	423+25.46	-46.94	643.2543	643.2578
PIER 2	423+34.42	-46.95	643.2590	643.2590
F	423+44.38	-46.98	643.2644	643.2717
G	423+54.40	-47.01	643.2699	643.2799
BREAB	423+67.54	-47.06	643.2772	643.2772
BKEAB	423+69.28	-47.07	643.2782	643.2782

SCREED ELEVATION FOR BEAM BM5				
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BKWAB	422+60.69	-40.48	643.1250	643.1250
BRWAB	422+62.44	-40.48	643.1259	643.1259
A	422+72.40	-40.43	643.1302	643.1392
B	422+82.37	-40.40	643.1347	643.1430
PIER 1	422+95.57	-40.37	643.1408	643.1408
C	423+05.53	-40.36	643.1457	643.1499
D	423+15.50	-40.35	643.1505	643.1578
E	423+25.46	-40.36	643.1556	643.1591
PIER 2	423+34.43	-40.37	643.1603	643.1603
F	423+44.40	-40.39	643.1656	643.1729
G	423+54.36	-40.42	643.1710	643.1810
BREAB	423+67.57	-40.48	643.1785	643.1785
BKEAB	423+69.31	-40.48	643.1794	643.1794

SCREED ELEVATION FOR BEAM BM2				
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BKWAB	422+60.79	-60.23	643.4213	643.4213
BRWAB	422+62.53	-60.23	643.4222	643.4222
A	422+72.47	-60.18	643.4264	643.4354
B	422+82.42	-60.15	643.4310	643.4393
PIER 1	422+95.60	-60.12	643.4371	643.4371
C	423+05.55	-60.11	643.4419	643.4461
D	423+15.50	-60.10	643.4468	643.4541
E	423+25.45	-60.11	643.4519	643.4554
PIER 2	423+34.40	-60.12	643.4565	643.4565
F	423+44.35	-60.14	643.4618	643.4691
G	423+54.29	-60.17	643.4672	643.4772
BREAB	423+67.48	-60.23	643.4747	643.4747
BKEAB	423+69.22	-60.23	643.4756	643.4756

SCREED ELEVATION FOR BEAM SCLWB				
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BKWAB	422+60.71	-44.07	643.1789	643.1789
BRWAB	422+62.45	-44.06	643.1796	643.1796
A	422+72.41	-44.02	643.1840	643.1930
B	422+82.38	-43.98	643.1884	643.1967
PIER 1	422+95.58	-43.95	643.1945	643.1945
C	423+05.54	-43.94	643.1994	643.2036
D	423+15.50	-43.94	643.2044	643.2117
E	423+25.46	-43.94	643.2093	643.2128
PIER 2	423+34.43	-43.95	643.2140	643.2140
F	423+44.39	-43.98	643.2194	643.2267
G	423+54.35	-44.01	643.2248	643.2348
BREAB	423+67.55	-44.06	643.2322	643.2322
BKEAB	423+69.29	-44.07	643.2332	643.2332

SCREED ELEVATION FOR BEAM BM6				
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BKWAB	422+60.66	-33.90	643.0263	643.0263
BRWAB	422+62.41	-33.89	643.0271	643.0271
A	422+72.38	-33.85	643.0314	643.0404
B	422+82.35	-33.82	643.0360	643.0443
PIER 1	422+95.56	-33.79	643.0421	643.0421
C	423+05.53	-33.78	643.0470	643.0512
D	423+15.50	-33.77	643.0518	643.0591
E	423+25.47	-33.78	643.0569	643.0604
PIER 2	423+34.44	-33.79	643.0616	643.0616
F	423+44.41	-33.81	643.0669	643.0742
G	423+54.38	-33.84	643.0723	643.0823
BREAB	423+67.60	-33.89	643.0797	643.0797
BKEAB	423+69.34	-33.90	643.0807	643.0807

SCREED ELEVATION FOR BEAM BM3				
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BKWAB	422+60.75	-53.65	643.3226	643.3226
BRWAB	422+62.50	-53.64	643.3234	643.3234
A	422+72.45	-53.60	643.3277	643.3367
B	422+82.40	-53.57	643.3323	643.3406
PIER 1	422+95.59	-53.54	643.3384	643.3384
C	423+05.54	-53.53	643.3432	643.3474
D	423+15.50	-53.52	643.3481	643.3554
E	423+25.45	-53.53	643.3532	643.3567
PIER 2	423+34.41	-53.54	643.3578	643.3578
F	423+44.36	-53.56	643.3631	643.3704
G	423+54.32	-53.59	643.3685	643.3785
BREAB	423+67.51	-53.64	643.3759	643.3759
BKEAB	423+69.25	-53.65	643.3769	643.3769

SCREED ELEVATION FOR BEAM PGLWB				
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BKWAB	422+60.71	-44.00	643.1779	643.1779
BRWAB	422+62.45	-44.00	643.1787	643.1787
A	422+72.41	-44.00	643.1837	643.1927
B	422+82.38	-44.00	643.1887	643.1970
PIER 1	422+95.58	-44.00	643.1953	643.1953
C	423+05.54	-44.00	643.2003	643.2045
D	423+15.50	-44.00	643.2053	643.2126
E	423+25.46	-44.00	643.2102	643.2137
PIER 2	423+34.43	-44.00	643.2147	643.2147
F	423+44.39	-44.00	643.2197	643.2270
G	423+54.35	-44.00	643.2247	643.2347
BREAB	423+67.55	-44.00	643.2313	643.2313
BKEAB	423+69.29	-44.00	643.2321	643.2321

SCREED ELEVATION FOR BEAM BM7				
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BKWAB	422+60.63	-27.32	642.9042	642.9042
BRWAB	422+62.38	-27.31	642.9049	642.9049
A	422+72.35	-27.27	642.9091	642.9181
B	422+82.33	-27.23	642.9133	642.9216
PIER 1	422+95.55	-27.20	642.9193	642.9193
C	423+05.52	-27.19	642.9241	642.9283
D	423+15.50	-27.19	642.9291	642.9364
E	423+25.48	-27.19	642.9340	642.9375
PIER 2	423+34.45	-27.20	642.9387	642.9387
F	423+44.43	-27.23	642.9443	642.9516
G	423+54.41	-27.26	642.9499	642.9599
BREAB	423+67.63	-27.31	642.9575	642.9575
BKEAB	423+69.37	-27.32	642.9586	642.9586

DESIGNED NV
CHECKED JKC
DRAWN NOE
CHECKED JKC

DECK ELEVATIONS  
F.A.I. 80 (I-80) OVER DRAINAGE DITCH  
SECTION (06-1, 2)RS-3, I  
BUREAU COUNTY  
SN 006-0009 (EB)  
SN 006-0010 (WB)  
STA. 423+15



STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 80	#	BUREAU	116	83
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

Contract #66623  
\* (06-1, 2)RS-3, I

SCREED ELEVATION FOR BEAM BM8				
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BKWAB	422+60.37	27.18	643.3724	643.3724
BRWAB	422+62.13	27.19	643.3737	643.3737
A	422+72.15	27.23	643.3816	643.3906
B	422+82.17	27.27	643.3895	643.3978
PIER 1	422+95.45	27.30	643.4004	643.4004
C	423+05.48	27.31	643.4088	643.4130
D	423+15.50	27.31	643.4173	643.4246
E	423+25.53	27.31	643.4258	643.4293
PIER 2	423+34.55	27.30	643.4336	643.4336
F	423+44.57	27.27	643.4426	643.4499
G	423+54.59	27.24	643.4516	643.4616
BREAB	423+67.88	27.19	643.4636	643.4636
BKEAB	423+69.63	27.18	643.4652	643.4652

SCREED ELEVATION FOR BEAM SCLEB				
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BKWAB	422+60.29	43.93	643.1210	643.1210
BRWAB	422+62.05	43.94	643.1224	643.1224
A	422+72.09	43.98	643.1303	643.1393
B	422+82.12	44.02	643.1383	643.1466
PIER 1	422+95.43	44.05	643.1491	643.1491
C	423+05.46	44.06	643.1575	643.1617
D	423+15.50	44.06	643.1660	643.1733
E	423+25.54	44.06	643.1746	643.1781
PIER 2	423+34.58	44.05	643.1824	643.1824
F	423+44.61	44.02	643.1914	643.1987
G	423+54.65	43.99	643.2004	643.2104
BREAB	423+67.95	43.94	643.2124	643.2124
BKEAB	423+69.71	43.93	643.2141	643.2141

SCREED ELEVATION FOR BEAM BMI2				
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BKWAB	422+60.24	53.52	642.9772	642.9772
BRWAB	422+62.00	53.52	642.9787	642.9787
A	422+72.05	53.57	642.9864	642.9954
B	422+82.10	53.60	642.9945	643.0028
PIER 1	422+95.41	53.63	643.0054	643.0054
C	423+05.46	53.64	643.0138	643.0180
D	423+15.50	53.65	643.0222	643.0295
E	423+25.55	53.64	643.0309	643.0344
PIER 2	423+34.59	53.63	643.0387	643.0387
F	423+44.64	53.61	643.0475	643.0548
G	423+54.69	53.58	643.0565	643.0665
BREAB	423+68.00	53.52	643.0688	643.0688
BKEAB	423+69.76	53.52	643.0702	643.0702

SCREED ELEVATION FOR BEAM BM9				
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BKWAB	422+60.34	33.77	643.2735	643.2735
BRWAB	422+62.09	33.77	643.2750	643.2750
A	422+72.12	33.82	643.2828	643.2918
B	422+82.15	33.85	643.2908	643.2991
PIER 1	422+95.44	33.88	643.3017	643.3017
C	423+05.47	33.89	643.3100	643.3142
D	423+15.50	33.90	643.3184	643.3257
E	423+25.53	33.89	643.3271	643.3306
PIER 2	423+34.56	33.88	643.3349	643.3349
F	423+44.59	33.86	643.3438	643.3511
G	423+54.62	33.83	643.3527	643.3627
BREAB	423+67.91	33.77	643.3649	643.3649
BKEAB	423+69.66	33.77	643.3664	643.3664

SCREED ELEVATION FOR BEAM PGLEB				
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BKWAB	422+60.29	44.00	643.1200	643.1200
BRWAB	422+62.05	44.00	643.1215	643.1215
A	422+72.09	44.00	643.1300	643.1390
B	422+82.12	44.00	643.1386	643.1469
PIER 1	422+95.43	44.00	643.1499	643.1499
C	423+05.46	44.00	643.1584	643.1626
D	423+15.50	44.00	643.1669	643.1742
E	423+25.54	44.00	643.1755	643.1790
PIER 2	423+34.58	44.00	643.1831	643.1831
F	423+44.61	44.00	643.1917	643.1990
G	423+54.65	44.00	643.2002	643.2102
BREAB	423+67.95	44.00	643.2115	643.2115
BKEAB	423+69.71	44.00	643.2130	643.2130

SCREED ELEVATION FOR BEAM BMI3				
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BKWAB	422+60.21	60.10	642.8784	642.8784
BRWAB	422+61.97	60.11	642.8798	642.8798
A	422+72.03	60.15	642.8877	642.8967
B	422+82.08	60.18	642.8958	642.9041
PIER 1	422+95.40	60.21	642.9067	642.9067
C	423+05.45	60.23	642.9149	642.9191
D	423+15.50	60.23	642.9235	642.9308
E	423+25.56	60.22	642.9322	642.9357
PIER 2	423+34.60	60.21	642.9400	642.9400
F	423+44.66	60.19	642.9489	642.9562
G	423+54.71	60.16	642.9579	642.9679
BREAB	423+68.03	60.11	642.9699	642.9699
BKEAB	423+69.79	60.10	642.9716	642.9716

SCREED ELEVATION FOR BEAM BMI0				
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BKWAB	422+60.31	40.35	643.1748	643.1748
BRWAB	422+62.06	40.36	643.1761	643.1761
A	422+72.10	40.40	643.1840	643.1930
B	422+82.13	40.43	643.1921	643.2004
PIER 1	422+95.43	40.46	643.2030	643.2030
C	423+05.47	40.48	643.2112	643.2154
D	423+15.50	40.48	643.2197	643.2270
E	423+25.54	40.47	643.2284	643.2319
PIER 2	423+34.57	40.46	643.2362	643.2362
F	423+44.61	40.44	643.2451	643.2524
G	423+54.64	40.41	643.2540	643.2640
BREAB	423+67.94	40.36	643.2661	643.2661
BKEAB	423+69.69	40.35	643.2677	643.2677

SCREED ELEVATION FOR BEAM BMI1				
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BKWAB	422+60.27	46.93	643.0760	643.0760
BRWAB	422+62.03	46.94	643.0774	643.0774
A	422+72.07	46.98	643.0853	643.0943
B	422+82.12	47.02	643.0933	643.1016
PIER 1	422+95.42	47.05	643.1041	643.1041
C	423+05.46	47.06	643.1125	643.1167
D	423+15.50	47.06	643.1210	643.1283
E	423+25.54	47.06	643.1296	643.1331
PIER 2	423+34.58	47.05	643.1374	643.1374
F	423+44.62	47.02	643.1464	643.1537
G	423+54.66	46.99	643.1554	643.1654
BREAB	423+67.97	46.94	643.1674	643.1674
BKEAB	423+69.72	46.93	643.1691	643.1691

SCREED ELEVATION FOR BEAM BMI4				
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BKWAB	422+60.18	66.68	642.7797	642.7797
BRWAB	422+61.94	66.69	642.7810	642.7810
A	422+72.00	66.73	642.7890	642.7980
B	422+82.06	66.77	642.7970	642.8053
PIER 1	422+95.39	66.80	642.8078	642.8078
C	423+05.45	66.81	642.8162	642.8204
D	423+15.50	66.81	642.8248	642.8321
E	423+25.56	66.81	642.8333	642.8368
PIER 2	423+34.62	66.80	642.8412	642.8412
F	423+44.67	66.77	642.8502	642.8575
G	423+54.73	66.74	642.8592	642.8692
BREAB	423+68.06	66.69	642.8713	642.8713
BKEAB	423+69.82	66.68	642.8729	642.8729

DESIGNED NV
CHECKED JKC
DRAWN NOE
CHECKED JKC

DECK ELEVATIONS  
F.A.I. 80 (I-80) OVER DRAINAGE DITCH  
SECTION (06-1, 2)RS-3, I  
BUREAU COUNTY  
SN 006-0009 (EB)  
SN 006-0010 (WB)  
STA. 423+15

**CHAMLIN**  
ASSOCIATES  
PERU ILLINOIS MORRIS

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 6 29 SHEETS
F.A.I. 80	#	BUREAU	116	84	
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-			

Contract #66623  
\* (06-1, 2)RS-3, I

NORTH CURB LINE

Location	Station	Offset	Theoretical Grade Elevations
End W. Appr. Pav't	422+30.31	25.75	643.37
A	422+40.33	25.82	643.38
B	422+50.35	25.88	643.38
Bk. W. Abut.	422+60.38	25.93	643.39

NORTH EDGE OF PAVEMENT

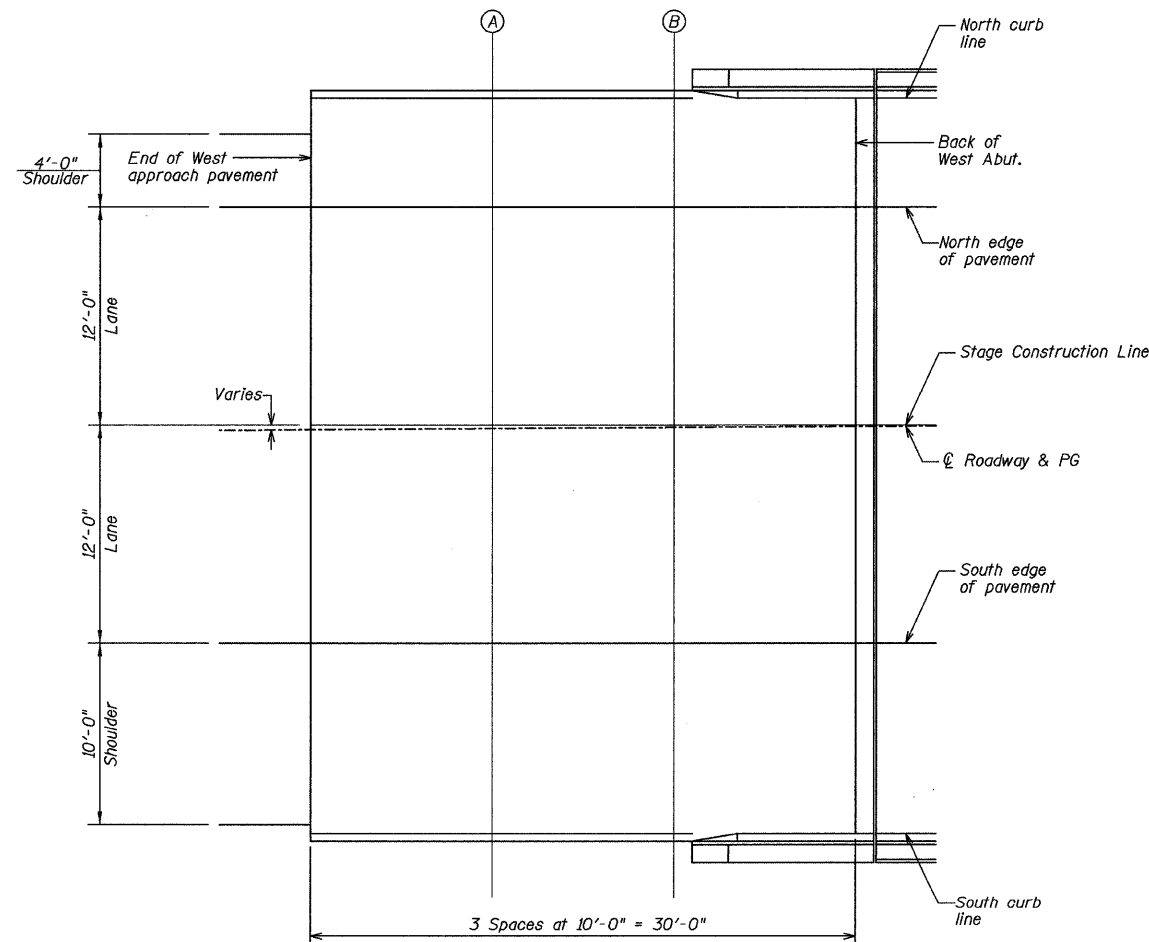
Location	Station	Offset	Theoretical Grade Elevations
End W. Appr. Pav't	422+30.27	31.75	643.28
A	422+40.29	31.82	643.29
B	422+50.32	31.88	643.29
Bk. W. Abut.	422+60.35	31.93	643.30

STAGE CONSTRUCTION LINE

Location	Station	Offset	Theoretical Grade Elevations
End W. Appr. Pav't	422+30.18	43.75	643.10
A	422+40.21	43.82	643.11
B	422+50.25	43.88	643.11
Bk. W. Abut.	422+60.29	43.93	643.12

☉ ROADWAY & PG

Location	Station	Offset	Theoretical Grade Elevations
End W. Appr. Pav't	422+30.17	44.00	643.09
A	422+40.21	44.00	643.10
B	422+50.25	44.00	643.11
Bk. W. Abut.	422+60.29	44.00	643.12



PLAN

SOUTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
End W. Appr. Pav't	422+30.09	55.75	642.92
A	422+40.14	55.82	642.93
B	422+50.18	55.88	642.93
Bk. W. Abut.	422+60.23	55.93	642.94

SOUTH CURB LINE

Location	Station	Offset	Theoretical Grade Elevations
End W. Appr. Pav't	422+30.01	66.25	642.71
A	422+40.07	66.32	642.72
B	422+50.12	66.38	642.72
Bk. W. Abut.	422+60.18	66.43	642.73

TOP OF WEST APPROACH (EB)  
SLAB ELEVATIONS  
F.A.I. 80 (I-80) OVER DRAINAGE DITCH  
SECTION (06-1, 2)RS-3, I  
BUREAU COUNTY  
SN 006-0009 (EB)  
SN 006-0010 (WB)  
STA. 423+15

**CHAMLIN & ASSOCIATES**  
PERU ILLINOIS MORRIS

DESIGNED	NOE
CHECKED	NV
DRAWN	NOE
CHECKED	JKC

E-AS 5-16-08

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO. F.A.I. 80	SECTION #	COUNTY BUREAU	TOTAL SHEETS 116	SHEET NO. 85
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

SHEET NO. 7  
29 SHEETS

Contract #66623  
\* (06-1, 2)RS-3, I

NORTH CURB LINE

Location	Station	Offset	Theoretical Grade Elevations
Bk. E. Abut.	423+69.62	25.93	643.48
A	423+79.65	25.88	643.49
B	423+89.67	25.82	643.50
End E. Appr. Pav't	423+99.69	25.75	643.51

NORTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
Bk. E. Abut.	423+69.65	31.93	643.39
A	423+79.68	31.88	643.40
B	423+89.71	31.82	643.41
End E. Appr. Pav't	423+99.74	31.75	643.42

STAGE CONSTRUCTION LINE

Location	Station	Offset	Theoretical Grade Elevations
Bk. E. Abut.	423+69.71	43.93	643.21
A	423+79.75	43.88	643.22
B	423+89.79	43.82	643.23
End E. Appr. Pav't	423+99.83	43.75	643.24

☉ ROADWAY & PG

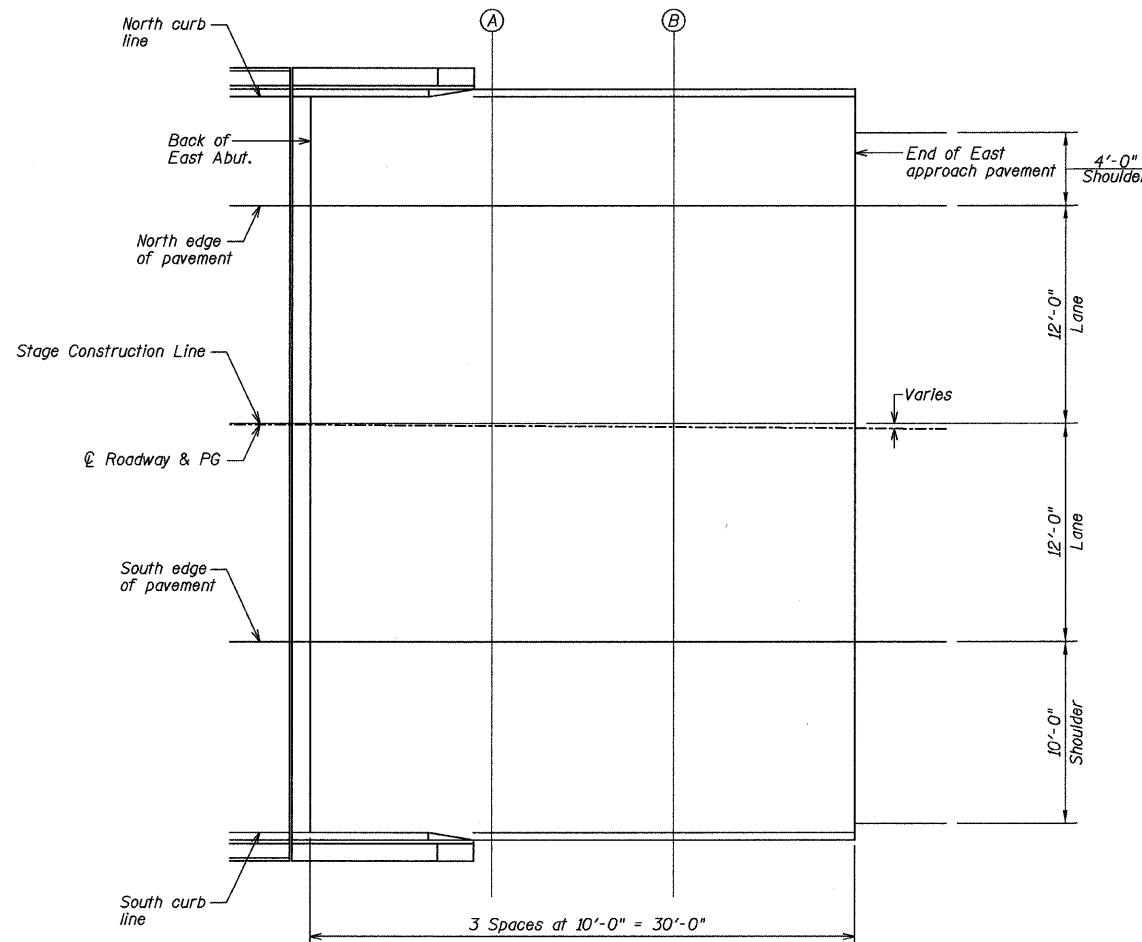
Location	Station	Offset	Theoretical Grade Elevations
Bk. E. Abut.	423+69.71	44.00	643.21
A	423+79.75	44.00	643.22
B	423+89.79	44.00	643.23
End E. Appr. Pav't	423+99.83	44.00	643.24

SOUTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
Bk. E. Abut.	423+69.77	55.93	643.03
A	423+79.82	55.88	643.04
B	423+89.87	55.82	643.05
End E. Appr. Pav't	423+99.91	55.75	643.06

SOUTH CURB LINE

Location	Station	Offset	Theoretical Grade Elevations
Bk. E. Abut.	423+69.82	66.43	642.82
A	423+79.88	66.38	642.83
B	423+89.93	66.32	642.84
End E. Appr. Pav't	423+99.99	66.25	642.85



PLAN

DESIGNED	NOE
CHECKED	NV
DRAWN	NOE
CHECKED	JKC

E-AS 5-16-08

**CHAMLIN & ASSOCIATES**  
PERU ILLINOIS MORRIS

TOP OF EAST APPROACH (EB)  
SLAB ELEVATIONS  
F.A.I. 80 (I-80) OVER DRAINAGE DITCH  
SECTION (06-1, 2)RS-3, I  
BUREAU COUNTY  
SN 006-0009 (EB)  
SN 006-0010 (WB)  
STA. 423+15

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 80	#	BUREAU	116	86
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 8  
29 SHEETS

Contract #66623  
\* (06-1, 2)RS-3, I

NORTH CURB LINE

Location	Station	Offset	Theoretical Grade Elevations
End W. Appr. Pav't	422+30.99	-66.75	643.50
A	422+40.93	-66.68	643.51
B	422+50.87	-66.62	643.51
Bk. W. Abut.	422+60.82	-66.57	643.52

NORTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
End W. Appr. Pav't	422+30.91	-56.25	643.35
A	422+40.86	-56.18	643.35
B	422+50.81	-56.12	643.35
Bk. W. Abut.	422+60.77	-56.07	643.36

STAGE CONSTRUCTION LINE

Location	Station	Offset	Theoretical Grade Elevations
End W. Appr. Pav't	422+30.83	-44.25	643.17
A	422+40.79	-44.18	643.17
B	422+50.75	-44.12	643.17
Bk. W. Abut.	422+60.71	-44.07	643.18

CL ROADWAY & PG

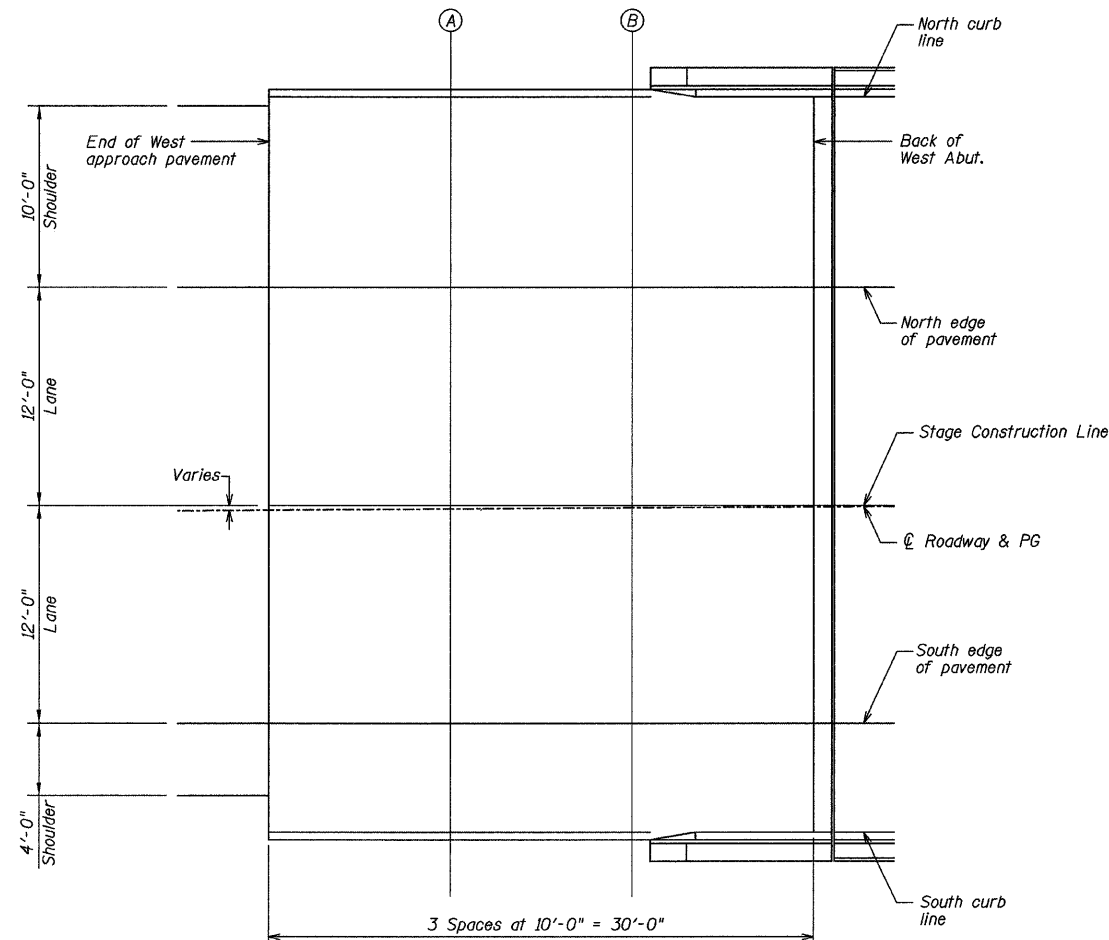
Location	Station	Offset	Theoretical Grade Elevations
End W. Appr. Pav't	422+30.82	-44.00	643.16
A	422+40.79	-44.00	643.17
B	422+50.75	-44.00	643.17
Bk. W. Abut.	422+60.71	-44.00	643.18

SOUTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
End W. Appr. Pav't	422+30.74	-32.25	642.99
A	422+40.71	-32.18	642.99
B	422+50.68	-32.12	642.99
Bk. W. Abut.	422+60.65	-32.07	643.00

SOUTH CURB LINE

Location	Station	Offset	Theoretical Grade Elevations
End W. Appr. Pav't	422+30.69	-26.25	642.87
A	422+40.67	-26.18	642.87
B	422+50.65	-26.12	642.87
Bk. W. Abut.	422+60.62	-26.07	642.88



PLAN

DESIGNED	NOE
CHECKED	NV
DRAWN	NOE
CHECKED	JKC

E-AS 5-16-08

**CHAMLIN & ASSOCIATES**  
PERU ILLINOIS MORRIS

TOP OF WEST APPROACH (WB)  
SLAB ELEVATIONS  
F.A.I. 80 (I-80) OVER DRAINAGE DITCH  
SECTION (06-1, 2)RS-3, I  
BUREAU COUNTY  
SN 006-0009 (EB)  
SN 006-0010 (WB)  
STA. 423+15



STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO. F.A.I. 80	SECTION #	COUNTY BUREAU	TOTAL SHEETS 116	SHEET NO. 87
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 9  
29 SHEETS

Contract #66623  
\* (06-1, 2)RS-3, I

NORTH CURB LINE

Location	Station	Offset	Theoretical Grade Elevations
Bk. E. Abut.	423+69.19	-66.57	643.57
A	423+79.13	-66.62	643.58
B	423+89.07	-66.68	643.58
End E. Appr. Pav't	423+99.01	-66.75	643.59

NORTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
Bk. E. Abut.	423+69.24	-56.07	643.41
A	423+79.19	-56.12	643.42
B	423+89.14	-56.18	643.42
End E. Appr. Pav't	423+99.09	-56.25	643.43

STAGE CONSTRUCTION LINE

Location	Station	Offset	Theoretical Grade Elevations
Bk. E. Abut.	423+69.29	-44.07	643.23
A	423+79.25	-44.12	643.24
B	423+89.22	-44.18	643.24
End E. Appr. Pav't	423+99.18	-44.25	643.25

☉ ROADWAY & PG

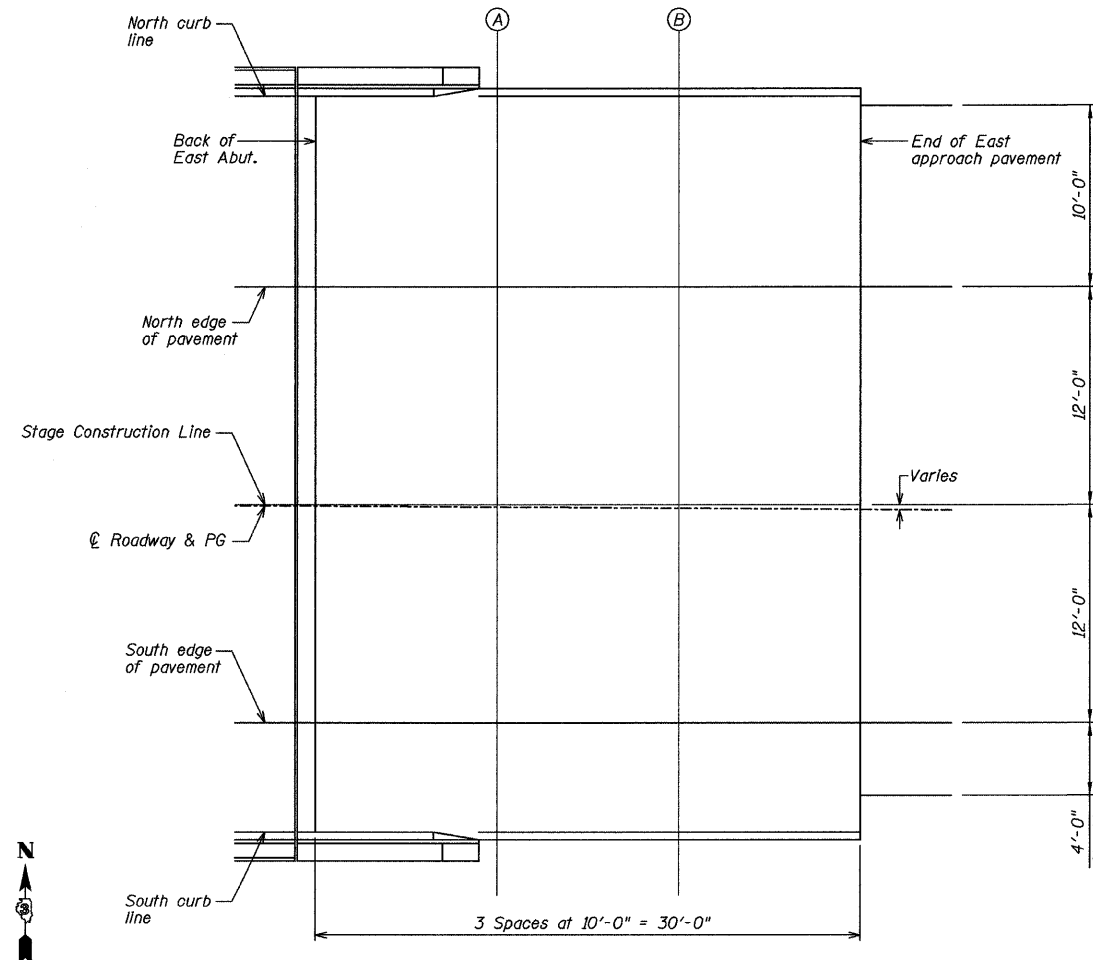
Location	Station	Offset	Theoretical Grade Elevations
Bk. E. Abut.	423+69.20	-44.00	643.23
A	423+79.25	-44.00	643.24
B	423+89.22	-44.00	643.24
End E. Appr. Pav't	423+99.18	-44.00	643.25

SOUTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
Bk. E. Abut.	423+69.35	-32.07	643.05
A	423+79.32	-32.12	643.06
B	423+89.29	-32.18	643.06
End E. Appr. Pav't	423+99.26	-32.25	643.07

SOUTH CURB LINE

Location	Station	Offset	Theoretical Grade Elevations
Bk. E. Abut.	423+69.38	-26.07	642.93
A	423+79.35	-26.12	642.94
B	423+89.33	-26.18	642.94
End E. Appr. Pav't	423+99.31	-26.25	642.95



PLAN

TOP OF EAST APPROACH (WB)  
SLAB ELEVATIONS  
F.A.I. 80 (I-80) OVER DRAINAGE DITCH  
SECTION (06-1, 2)RS-3, I  
BUREAU COUNTY  
SN 006-0009 (EB)  
SN 006-0010 (WB)  
STA. 423+15

**CHAMLIN & ASSOCIATES**  
PERU ILLINOIS MORRIS

DESIGNED	NOE
CHECKED	NV
DRAWN	NOE
CHECKED	JKC

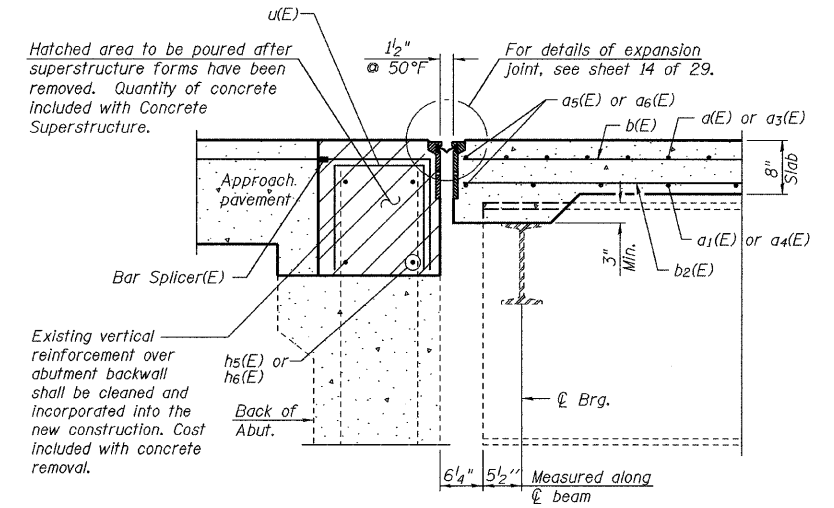
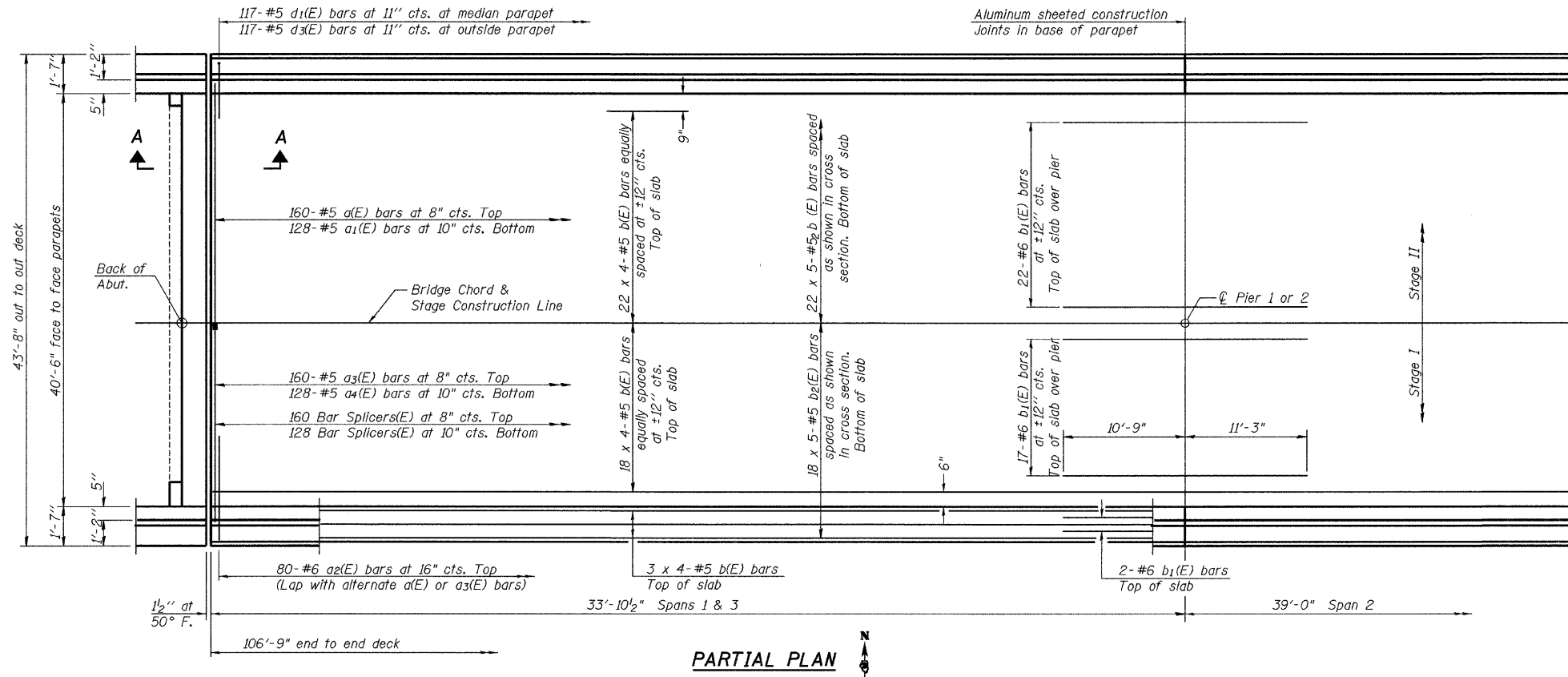
E-AS 5-16-08

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 80	*	BUREAU	116	88
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

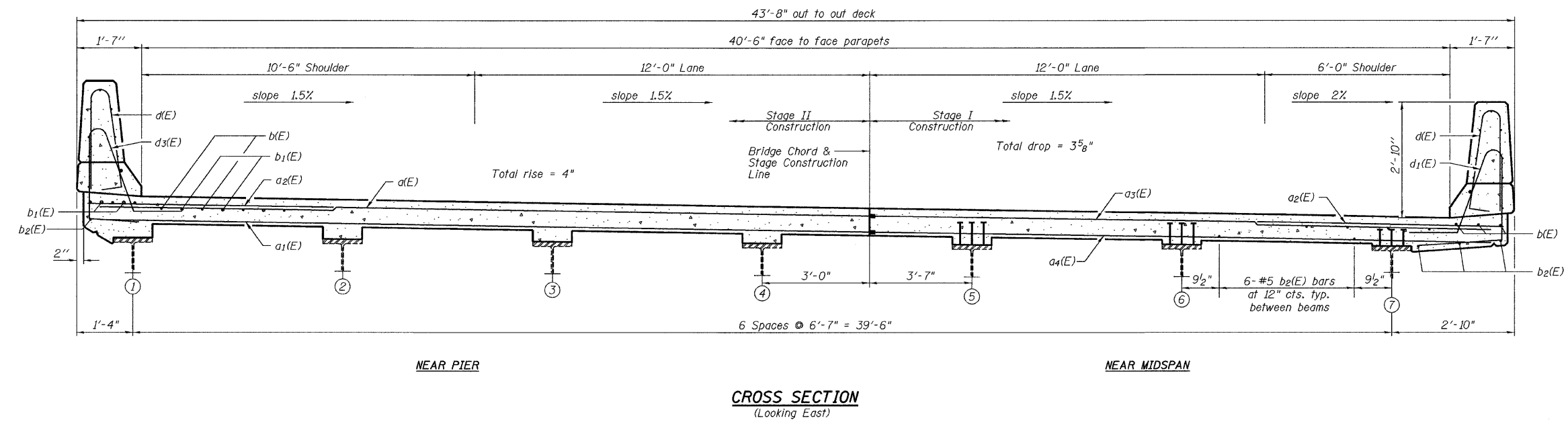
SHEET NO. 10  
29 SHEETS

Contract #66623  
\* (06-1, 2)RS-3, I



Min. Bar lap  
#5 bar 1'-8"

Notes:  
See Sheet 12 of 29 for superstructure details and Bill of Material.  
Bars indicated thus 20 x 3-#5 etc. Indicates 20 lines of bars with 3 lengths per line.  
See Sheet 12 of 29 for parapet reinforcement.



DESIGNED	JKC
CHECKED	JLS
DRAWN	NOE
CHECKED	JKC

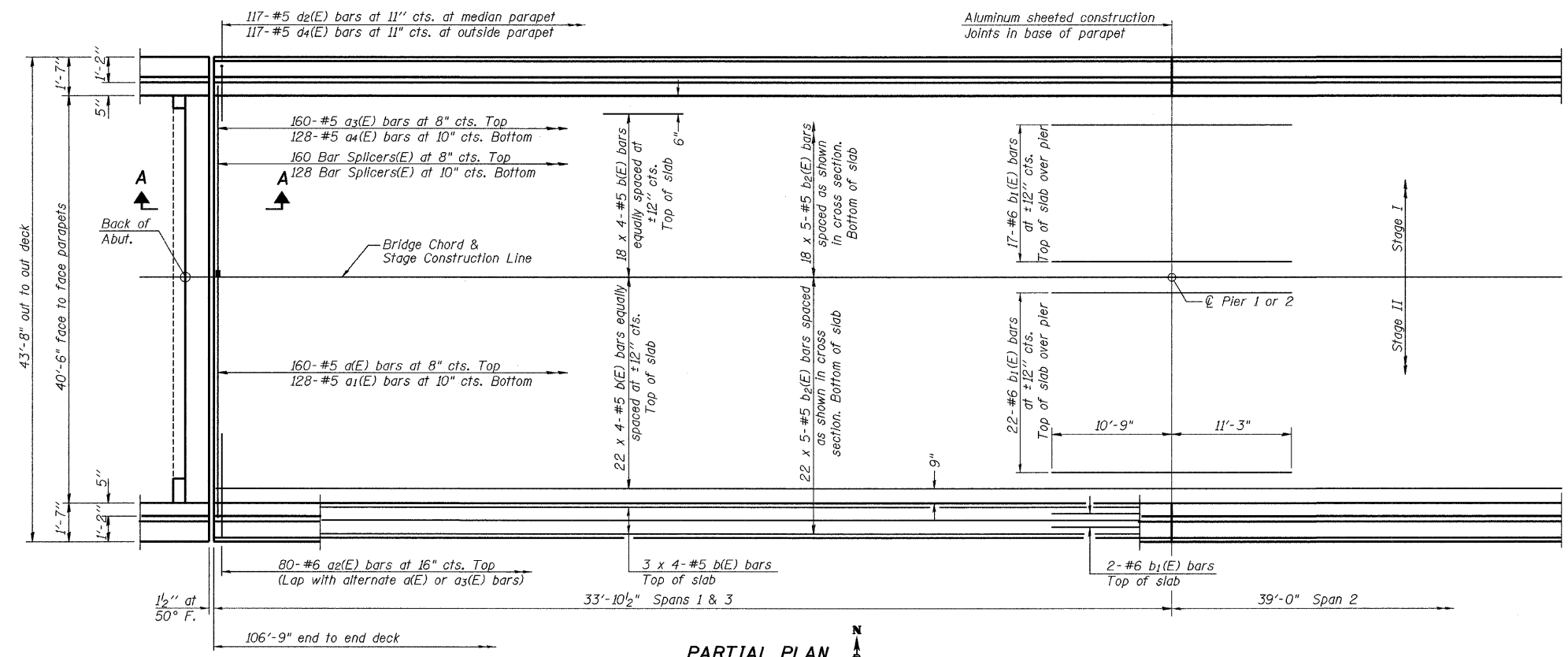
**CHAMLIN & ASSOCIATES**  
PERU ILLINOIS MORRIS

WESTBOUND  
SUPERSTRUCTURE PLAN AND SECTION  
F.A.I. 80 (I-80) OVER DRAINAGE DITCH  
SECTION (06-1, 2)RS-3, I  
BUREAU COUNTY  
SN 006-0009 (EB)  
SN 006-0010 (WB)  
STA. 423+15

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

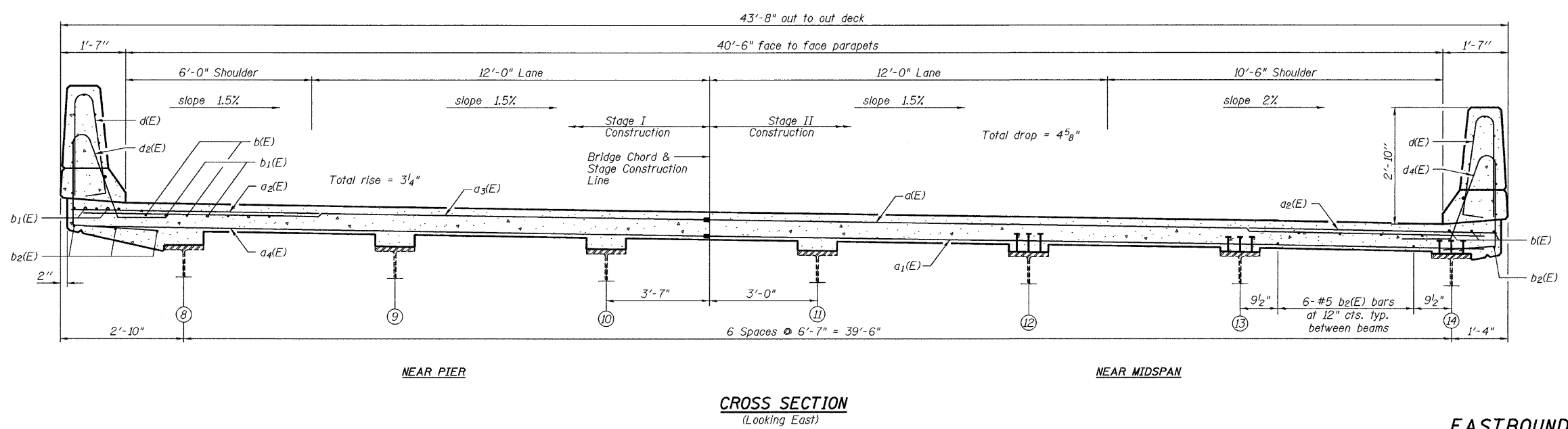
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F.A.I. 80	*	BUREAU	116	89	
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-			

Contract #66623  
\* (06-1, 2)RS-3, I



Min. Bar lap  
#5 bar 1'-8"

Notes:  
See Sheet 12 of 29 for superstructure details and Bill of Material.  
Bars indicated thus 20 x 3-#5 etc. indicates 20 lines of bars with 3 lengths per line.  
See Sheet 12 of 29 for parapet reinforcement.



DESIGNED	JKC
CHECKED	JLS
DRAWN	NOE
CHECKED	JKC

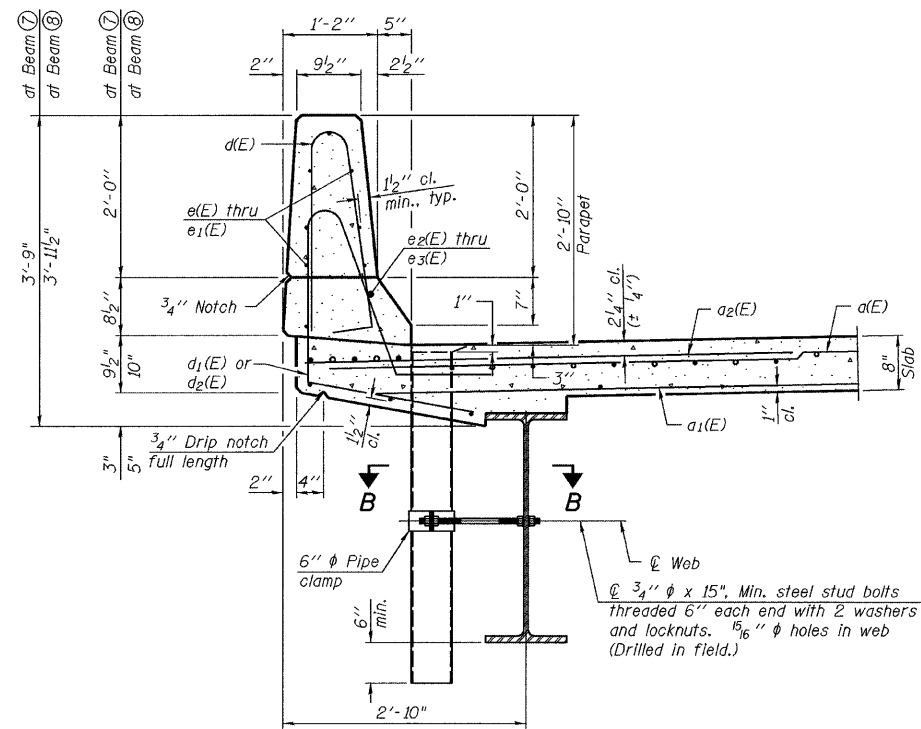
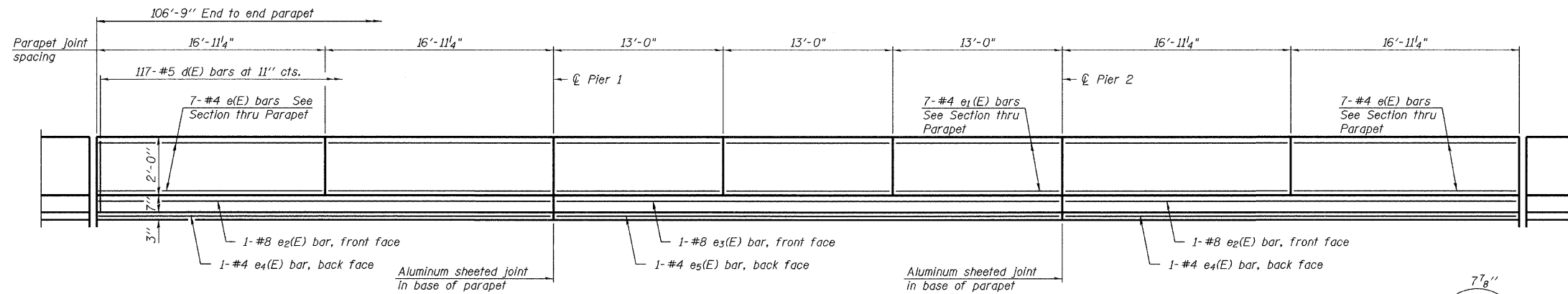
**CHAMLIN**  
ASSOCIATES  
PERU ILLINOIS MORRIS

**EASTBOUND  
SUPERSTRUCTURE PLAN AND SECTION  
F.A.I. 80 (I-80) OVER DRAINAGE DITCH  
SECTION (06-1, 2)RS-3, I  
BUREAU COUNTY  
SN 006-0009 (EB)  
SN 006-0010 (WB)  
STA. 423+15**

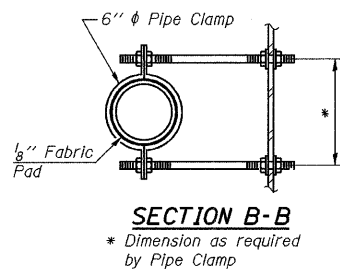
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 12 29 SHEETS
F.A.I. 80	*	BUREAU	116	90	
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-			

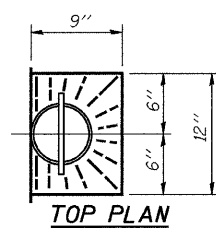
Contract #66623  
\* (06-1, 2)RS-3, I



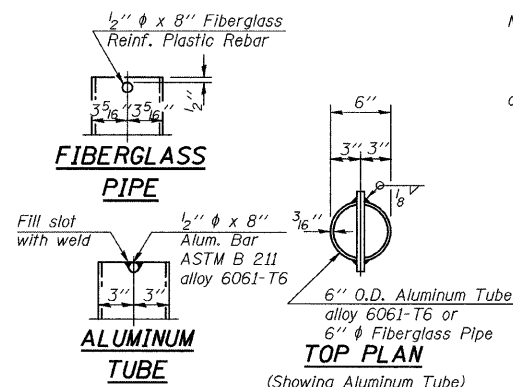
SECTION THRU MEDIAN PARAPET



SECTION B-B  
\* Dimension as required by Pipe Clamp



TOP PLAN

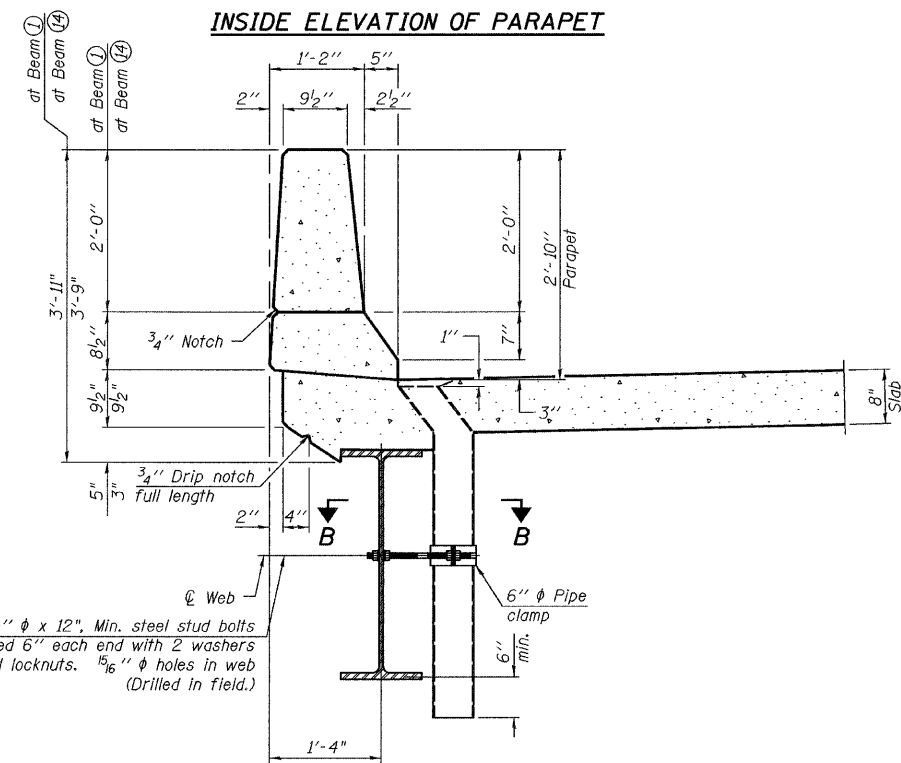


FIBERGLASS PIPE

ALUMINUM TUBE

TOP PLAN (Showing Aluminum Tube)

INSIDE ELEVATION OF PARAPET

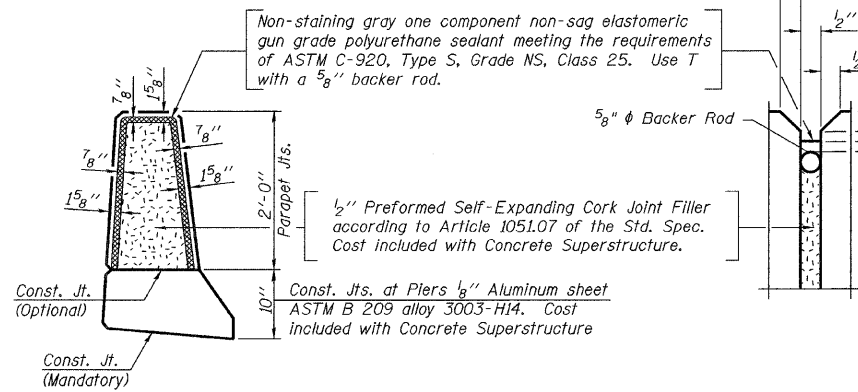


SECTION THRU OUTSIDE PARAPET

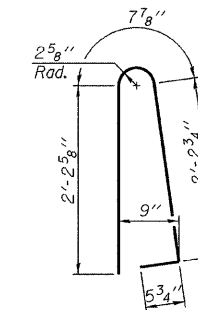
Notes:

Floor drains need not be painted.

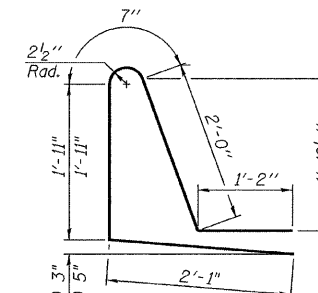
Fiberglass pipe shall conform to ASTM D 2996, with short-time rupture strength hoop tensile stress of 30,000 p.s.i. minimum.



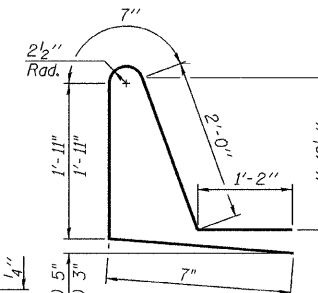
PARAPET JOINT DETAILS



BAR d(E)



BARS d1(E) OR d2(E)



BARS d3(E) OR d4(E)

SUPERSTRUCTURE  
BILL OF MATERIAL

(Both Structures)

Bar	No.	Size	Length	Shape	
d(E)	320	#5	23'-9"	—	
d1(E)	256	#5	23'-6"	—	
d2(E)	320	#6	6'-0"	—	
d3(E)	320	#5	19'-3"	—	
d4(E)	256	#5	19'-0"	—	
b(E)	368	#5	27'-11"	—	
b1(E)	172	#6	22'-0"	—	
b2(E)	400	#5	22'-8"	—	
e(E)	468	#5	5'-7"	—	
e1(E)	117	#5	7'-9"	—	
e2(E)	117	#5	7'-9"	—	
e3(E)	117	#5	6'-3"	—	
e4(E)	117	#5	6'-3"	—	
e5(E)	4	#4	38'-9"	—	
Reinforcement Bars, Epoxy Coated				Pound	63960
Concrete Superstructure				Cu. Yds.	309.5

SUPERSTRUCTURE DETAILS

F.A.I. 80 (I-80) OVER DRAINAGE DITCH  
SECTION (06-1, 2)RS-3, I  
BUREAU COUNTY  
SN 006-0009 (EB)  
SN 006-0010 (WB)  
STA. 423+15

CHAMLIN ASSOCIATES  
PERU ILLINOIS MORRIS

DESIGNED	JKC
CHECKED	JLS
DRAWN	NOE
CHECKED	JKC

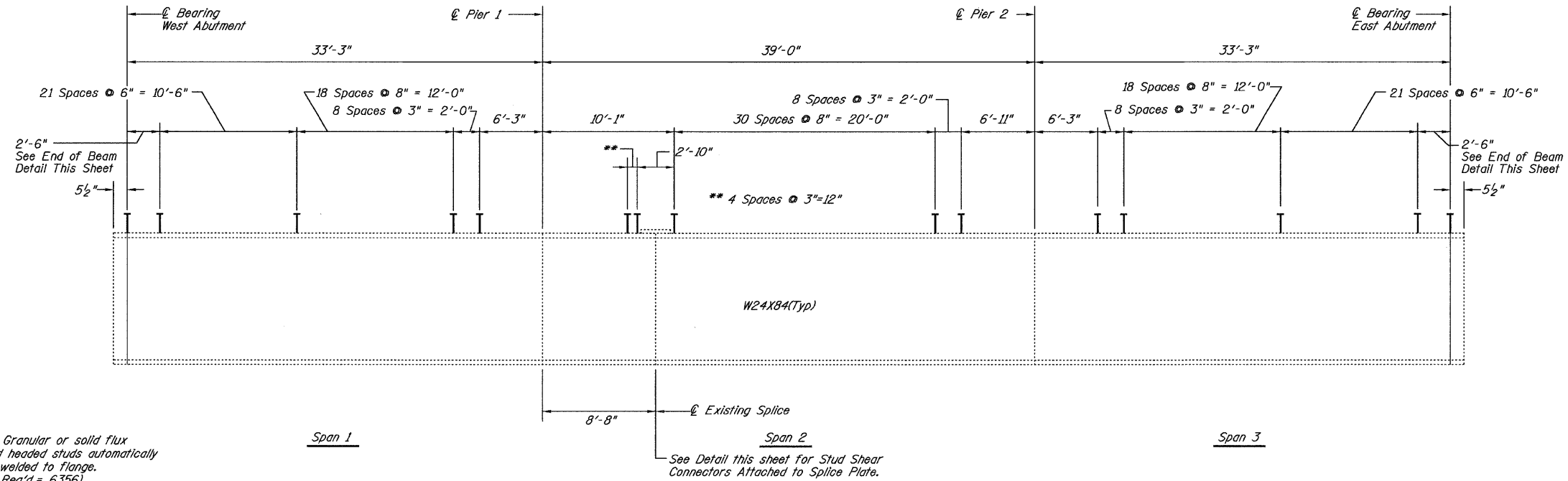
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 80	*	BUREAU	116	91
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

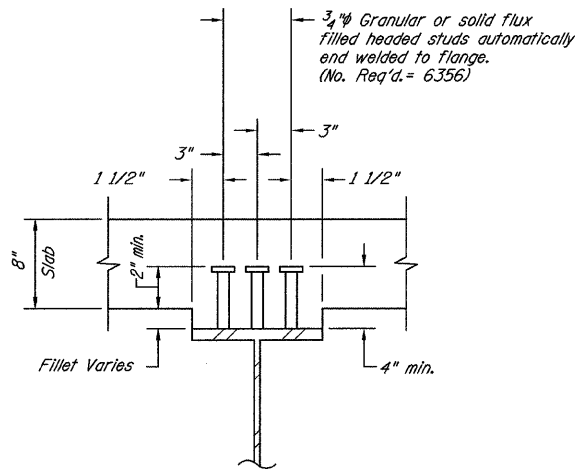
SHEET NO. 13

29 SHEETS

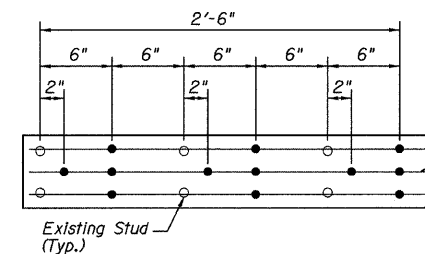
Contract #66623  
\* (06-1, 2)RS-3, I



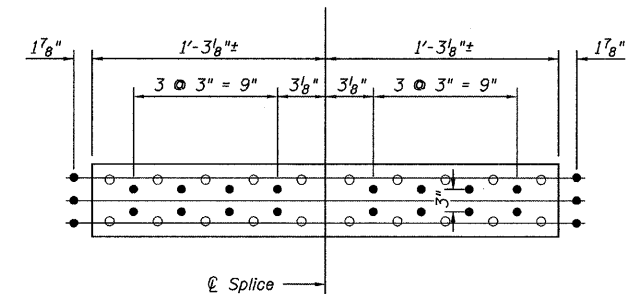
BEAM ELEVATION SHOWING STUDS  
454 Studs Per Beam



SHEAR CONNECTOR DETAIL



END OF BEAM DETAIL



STUD SHEAR CONNECTOR ATTACHED TO SPLICE PLATE DETAIL

	0.4 Sp. 1 & 0.6 Sp. 3	Pier 1 & 2	0.5 Sp. 2
$I_s$ (in <sup>4</sup> )	2370	2370	2370
$I_c$ (in <sup>4</sup> )	7799	-	7799
$I_c$ (3n) (in <sup>4</sup> )	5912	-	5912
$S_s$ (in <sup>3</sup> )	196.7	196.7	196.7
$S_c$ (in <sup>3</sup> )	318.5	-	318.5
$S_c$ (3n) (in <sup>3</sup> )	288.3	-	288.3
$Z$ (in <sup>3</sup> )	-	-	-
$Q$ (k')	0.77	1.19	0.77
$M_R$ (k)	61.7	144.5	45.5
$s_R$ (k')	0.42	-	0.42
$M_s R$ (k)	38.5	-	36.4
$M_L$ (k)	188.1	88.9	193.3
$M$ (Imp) (k)	56.4	26.7	58.0
$S_2(M_L + M(Imp))$ (k)	407.5	192.7	418.8
$M_a$ (k)	660.1	438.4	650.9
$M_u$ (k)	1016.7	-	1108.7
$f_s R$ (non-comp) (ksi)	3.76	8.81	2.78
$f_s R$ (comp) (ksi)	1.60	-	1.52
$f_s S_2(L + Imp)$ (ksi)	15.35	11.76	15.78
$f_s$ (Overload) (ksi)	20.71	20.57	20.07
$f_s$ (Total) (ksi)	-	26.74	-
$V_R$ (k)	48.9	-	51.7

	Abut.	Pier 1 & 2
$R_R$ (k)	15.5	47.4
$R_L$ (k)	34.7	39.6
$Imp.$ (k)	10.5	11.9
$R$ (Total) (k)	60.7	98.9

$I_s$  and  $S_s$  are the moment of inertia and section modulus of the steel section used in computing  $f_s$  (Total & Overload).

$I_c$  and  $S_{c(w)}$  are the moment of inertia and section modulus of the composite section used in computing stresses due to Live Load.

$I_c$  and  $S_{c(3w)}$  are the moment of inertia and section modulus of the composite section used in computing stresses due to superimposed dead loads. (see AASHTO 10.38)

$V_R$  is the maximum Live Load + Impact shear range in span.

$Z$  is the plastic section modulus used to determine the fully plastic moments in the non-composite areas.

$M_a$  (Applied Moment) =  $1.3(M_R + M_s R + S_2(M_L + M(Imp)))$ .  
The Plastic Moment capacity ( $M_u$ ) is computed according to AASHTO 10.48.1 and 10.50.1.1.

$f_s$  (Overload) is the sum of the stresses due to  $M_R + M_s R + S_2(M_L + M(Imp))$ .

$f_s$  (Total) (Non-compact section) is the sum of the stresses due to  $1.3(M_R + M_s R + S_2(M_L + M(Imp)))$ .

DESIGNED	JKC
CHECKED	JLS
DRAWN	NOE
CHECKED	JKC

CHAMLIN ASSOCIATES  
PERU ILLINOIS MORRIS

FRAMING DETAILS  
F.A.I. 80 (I-80) OVER DRAINAGE DITCH  
SECTION (06-1, 2)RS-3, I  
BUREAU COUNTY  
SN 006-0009 (EB)  
SN 006-0010 (WB)  
STA. 423+15

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 80	*	BUREAU	116	92
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 14

29 SHEETS

Contract #66623  
\* (06-1, 2)RS-3, I

\*Granular or solid flux filled headed studs conforming to Article 1006.32 of the Std. Specs., automatically end welded.

Notes:

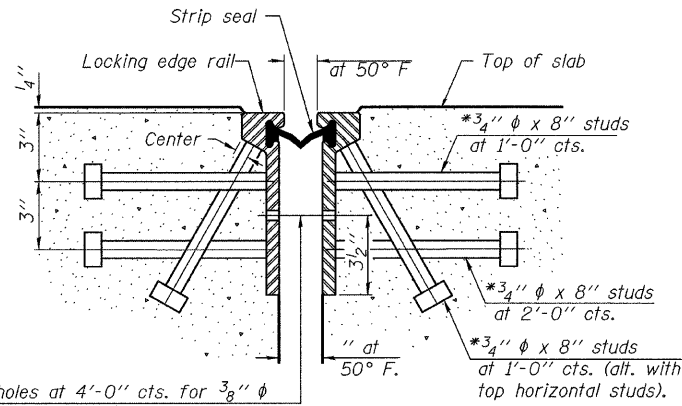
The strip seal shall be made continuous and shall have a minimum thickness of 1/4". The configuration of the strip seal shall match the configuration of the Locking Edge Rails. Open or "webbed" strip seal gland configurations are not permitted. The gland shall be sized for a maximum rated movement of 4 inches.

The height and thickness of the Locking Edge Rails shown are minimum dimensions. The actual configuration of the Locking Edge Rails and matching strip seal may vary from manufacturer to manufacturer. Flanged edge rails will not be allowed. Locking Edge Rails may be spliced at slope discontinuities and stage construction joints.

The manufacturer's recommended installation methods shall be followed.

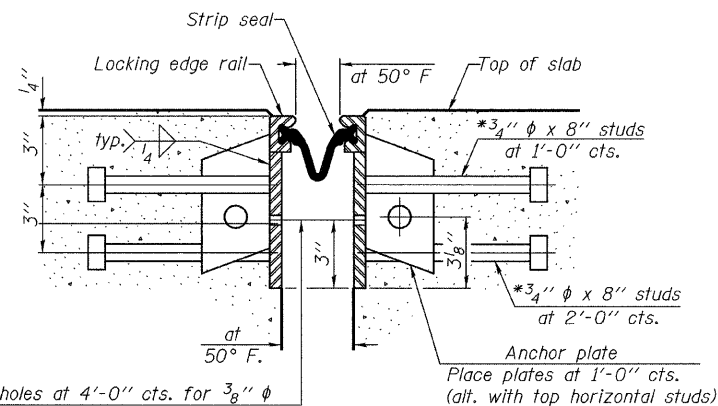
The joint opening and deck dimensions detailed on the superstructure are based on a rolled rail expansion joint. If the Contractor elects to use the welded rail expansion joint, the opening and deck dimensions shall be modified according to the dimensions detailed on this sheet. Required modifications shall be made at no additional cost to the State.

All steel components shall be galvanized after fabrication according to Article 520.03 of the Standard Specifications.



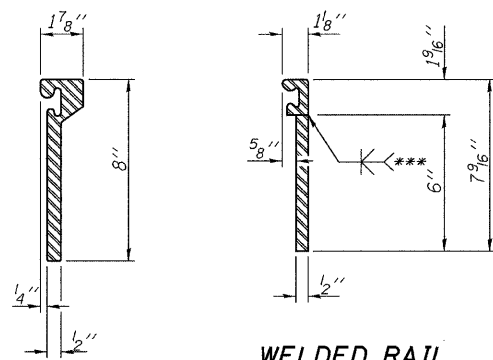
7/16"  $\phi$  holes at 4'-0" cts. for 3/8"  $\phi$  bolts. All bolts shall be burned, sawed, or chipped off flush with the plates after forms are removed, typ.

SECTION THRU ROLLED RAIL JOINT



7/16"  $\phi$  holes at 4'-0" cts. for 3/8"  $\phi$  bolts. All bolts shall be burned, sawed, or chipped off flush with the plates after forms are removed, typ.

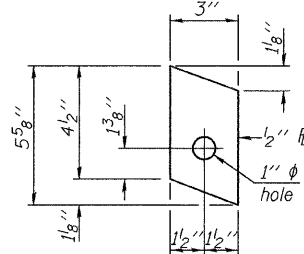
SECTION THRU WELDED RAIL JOINT



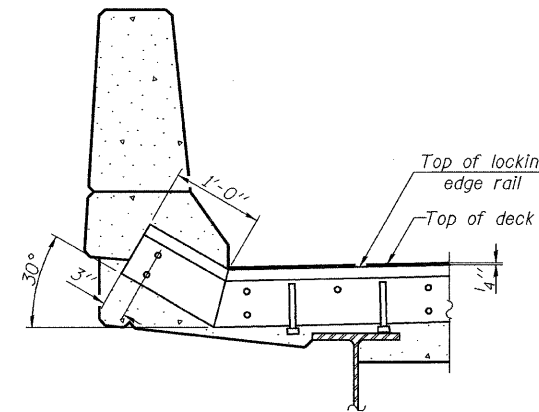
ROLLED EXTRUDED RAIL

WELDED RAIL

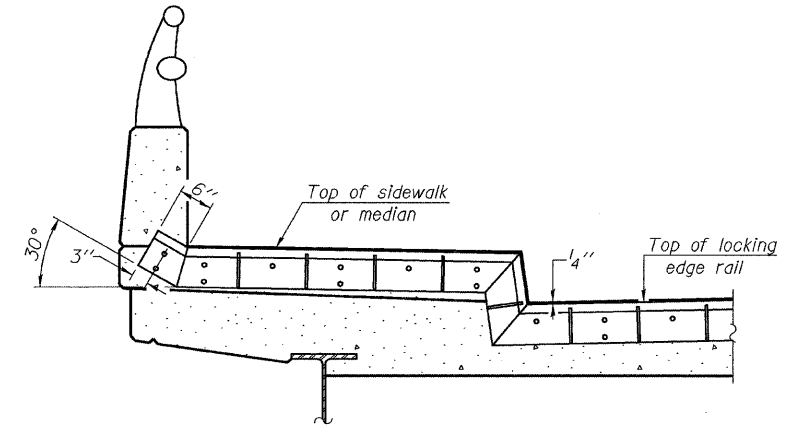
\*\*\*Back gouge not required if complete joint penetration is verified by mock-up.



ANCHOR PLATE  
(for welded rail)



AT PARAPET



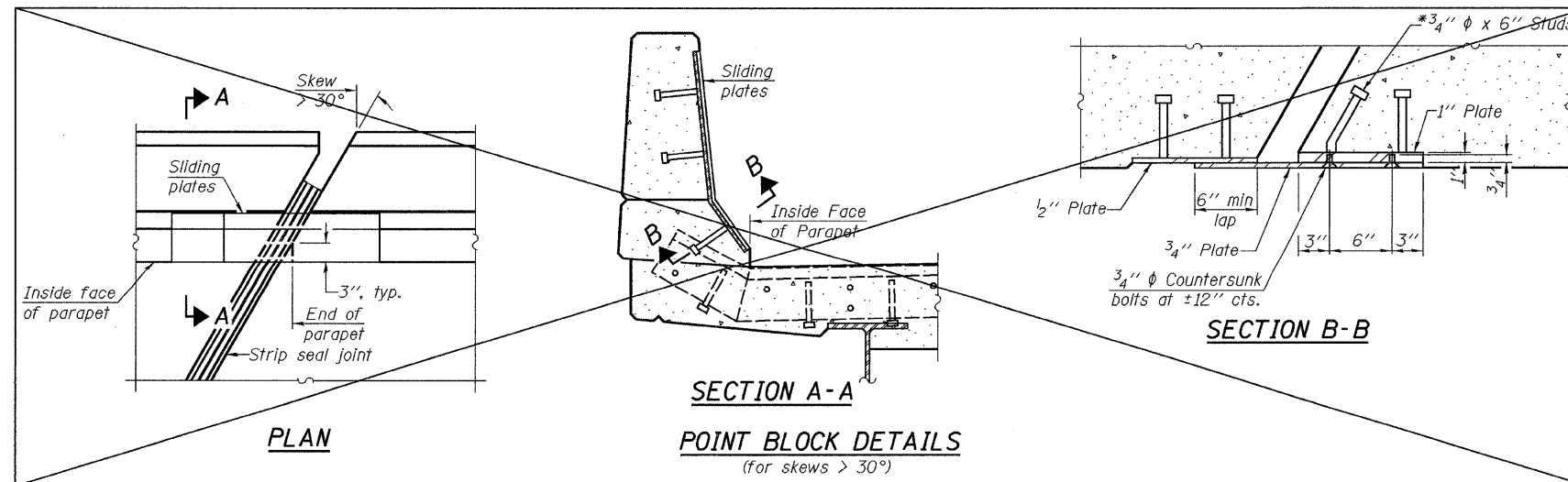
AT SIDEWALK OR MEDIAN

Shorter plates with a single row of studs at 12" cts. may be necessary on medians which are shallower than 9". See manufacturer's recommendation.

LOCKING EDGE RAIL SPLICE

The inside of the locking edge rail groove shall be free of weld residue.

LOCKING EDGE RAILS



TYPICAL END TREATMENTS

BILL OF MATERIAL

Item	Unit	Total
Preformed Joint Strip Seal	Foot	170

PREFORMED JOINT STRIP SEAL  
F.A.I. 80 (I-80) OVER DRAINAGE DITCH  
SECTION (06-1, 2)RS-3, I  
BUREAU COUNTY  
SN 006-0009 (EB)  
SN 006-0010 (WB)  
STA. 423+15

CHAMLIN & ASSOCIATES  
PERU ILLINOIS MORRIS

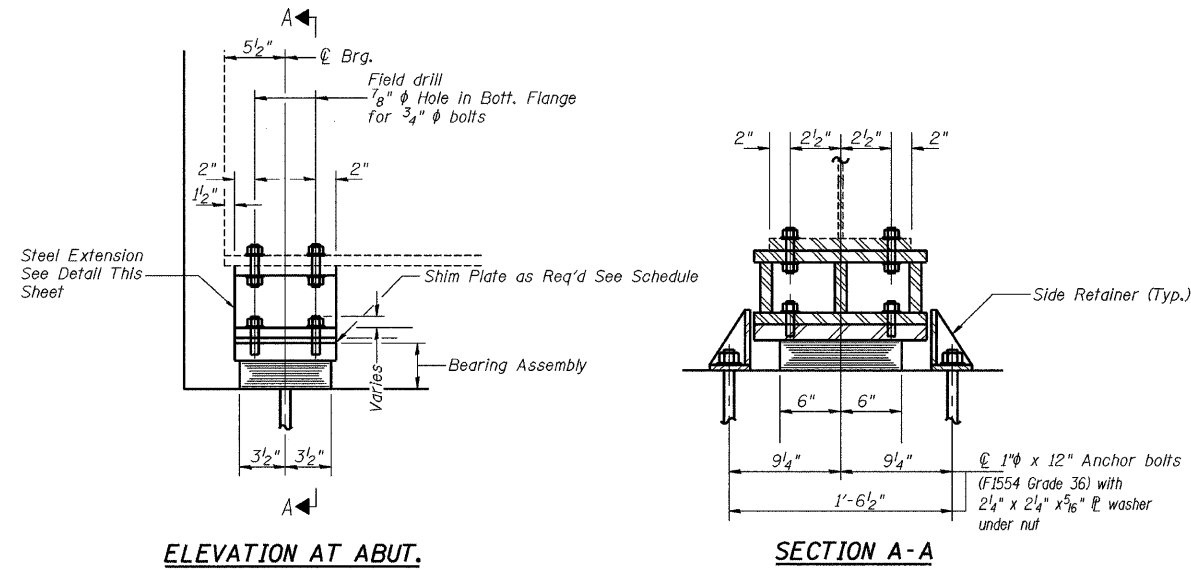
DESIGNED	--
CHECKED	--
DRAWN	NOE
CHECKED	JKC

EJ-SSJ 5-16-08

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 15 29 SHEETS
F.A.I. 80	*	BUREAU	116	93	
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-		

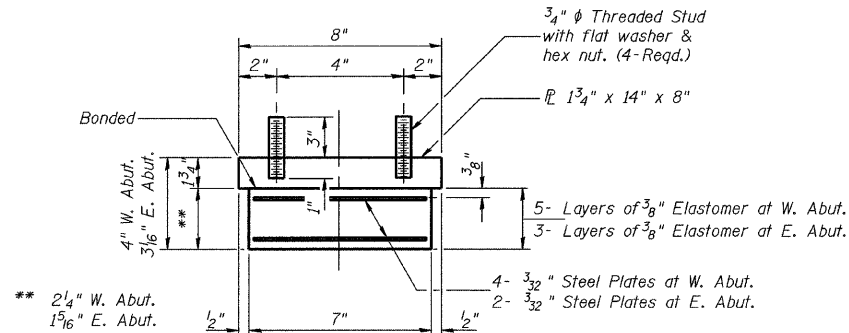
Contract #66623  
\* (06-1, 2)RS-3, I



ELEVATION AT ABUT.

SECTION A-A

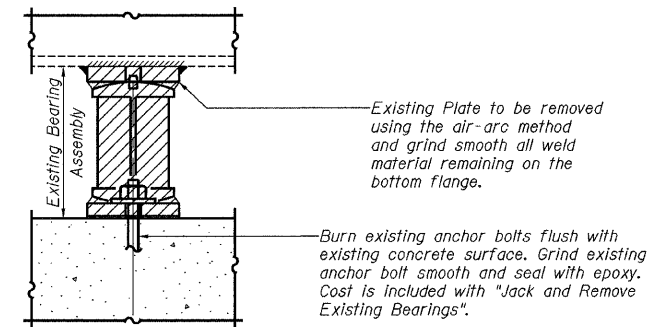
TYPE I ELASTOMERIC EXP. BRG.



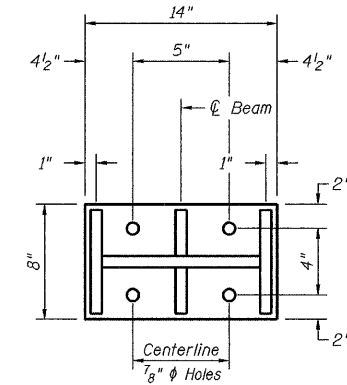
BEARING ASSEMBLY

Note:  
Shim plates shall not be placed under Bearing Assembly.

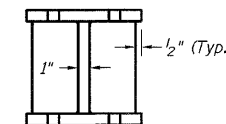
Notes:  
Anchor bolts shall be ASTM F1554 all-thread (or an Engineer-approved alternate material) of the grade(s) and diameter(s) specified. ASTM A307 Grade C anchor bolts may be used in lieu of ASTM F1554 Grade 36 (Fy=36ksi). The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554.  
Drilled and set anchor bolts shall be installed according to Article 521.06 of the Standard Specifications.  
Side retainers and other steel members required for the bearing assembly shall be included in the cost of Elastomeric Bearing Assembly, Type I.



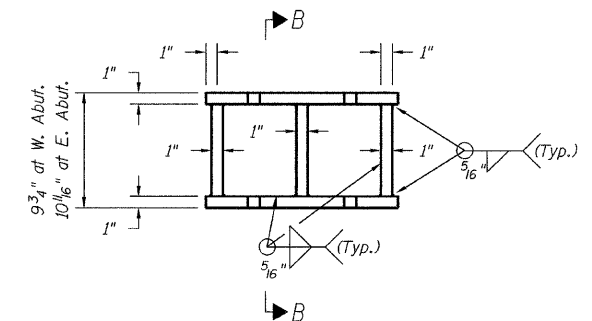
EXISTING BEARING REMOVAL DETAIL



PLAN STEEL EXTENSION



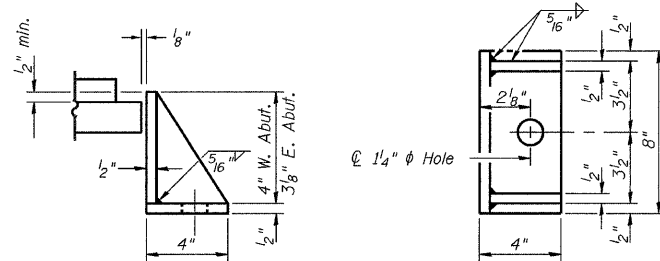
SECTION B-B



ELEVATION STEEL EXTENSION

STEEL EXTENSION DETAILS

28 REQUIRED - TWO AT EACH EXISTING BEAM



SIDE RETAINER

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

SHIM PLATE SCHEDULE		
	W. Abutment	E. Abutment
BM 1	-	-
BM 2	13/16	13/16
BM 3	-	-
BM 4	13/16	13/16
BM 5	-	-
BM 6	13/16	13/16
BM 7	-	-
BM 8	-	-
BM 9	13/16	13/16
BM 10	-	-
BM 11	13/16	13/16
BM 12	-	-
BM 13	13/16	13/16
BM 14	-	-

BILL OF MATERIAL

Item	Unit	Total
Elastomeric Bearing Assembly Type I	Each	28
Anchor Bolts 1"	Each	56
Furnishing and Erecting Structural Steel *	Pound	4190

\* Includes steel assembly above elastomeric bearing.

BEARING DETAILS  
F.A.I. 80 (I-80) OVER DRAINAGE DITCH  
SECTION (06-1, 2)RS-3, I  
BUREAU COUNTY  
SN 006-0009 (EB)  
SN 006-0010 (WB)  
STA. 423+15

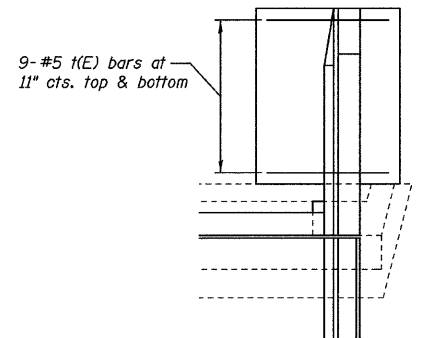
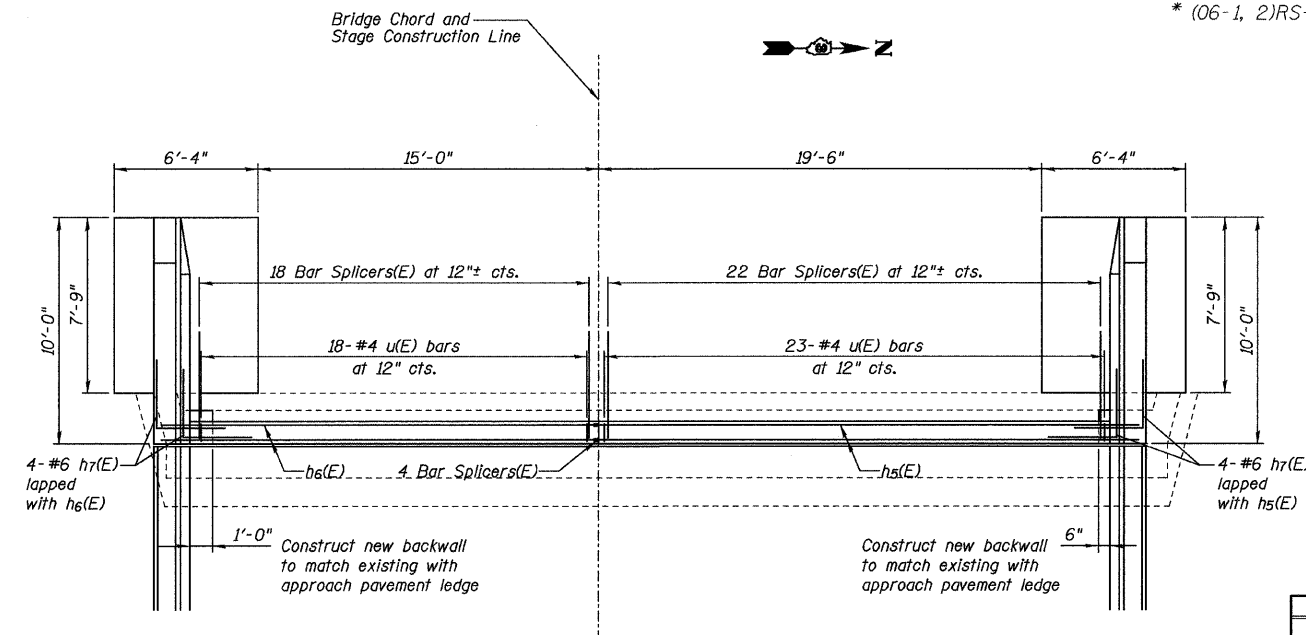
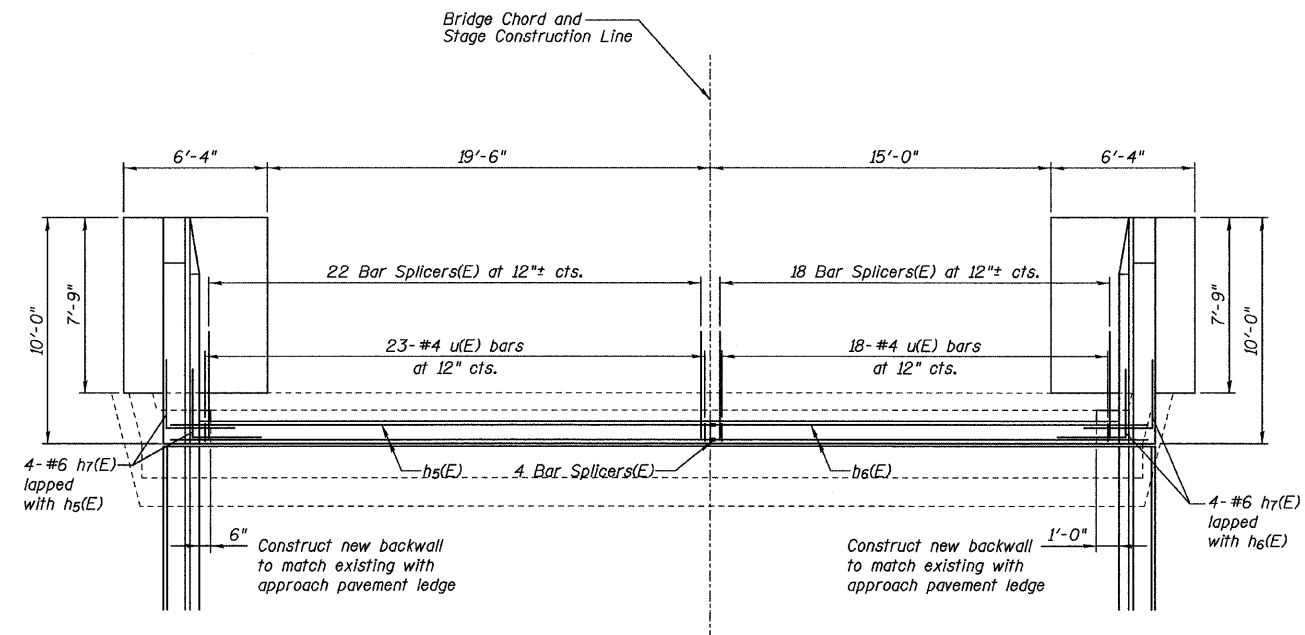
CHAMLIN & ASSOCIATES  
PERU ILLINOIS MORRIS

DESIGNED	JKC
CHECKED	JLS
DRAWN	NOE
CHECKED	JKC

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO. F.A.I. 80	SECTION #	COUNTY BUREAU	TOTAL SHEETS 116	SHEET NO. 94	SHEET NO. 16 29 SHEETS
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT			

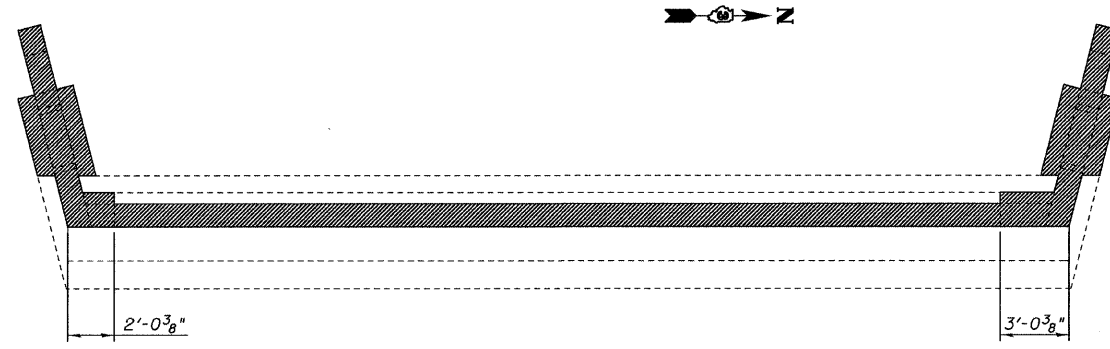
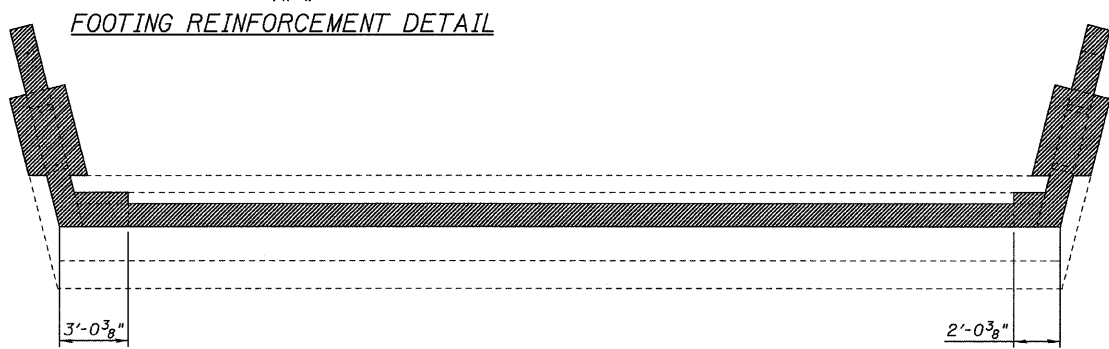
Contract #66623  
\* (06-1, 2)RS-3, I



EASTBOUND

WESTBOUND

PLAN VIEW - WEST ABUTMENTS  
Showing New Construction



EASTBOUND

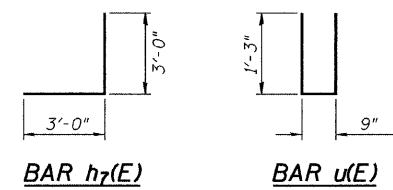
WESTBOUND

PLAN VIEW - WEST ABUTMENTS  
Showing Concrete Removal

LEGEND  
Concrete Removal

SUBSTRUCTURE  
BILL OF MATERIAL  
(2 Abutments)

Bar	No.	Size	Length	Shape
h3(E)	48	#4	9'-9"	—
h4(E)	32	#4	9'-9"	—
h5(E)	8	#6	23'-9"	—
h6(E)	8	#6	19'-3"	—
hr(E)	16	#6	6'-0"	┘
n(E)	24	#6	9'-10"	—
n1(E)	24	#6	4'-11"	—
t(E)	36	#5	6'-0"	—
u(E)	82	#4	3'-3"	—
vg(E)	22	#6	9'-1"	—
vt(E)	6	#6	9'-1"	—
va(E)	16	#6	9'-3"	—
vs(E)	22	#6	8'-5"	—
ve(E)	6	#6	8'-5"	—
vr(E)	16	#6	8'-7"	—
w(E)	40	#5	7'-6"	—
Reinforcement Bars, Epoxy Coated	Pound		3,600	
Concrete Structures	Cu. Yds.		32	
Concrete Removal	Cu. Yds.		20	
Structure Excavation	Cu. Yds.		115.5	



DESIGNED	JKC
CHECKED	JLS
DRAWN	NOE
CHECKED	JKC

Work this sheet with sheets 18, 20, and 21 of 29.

WEST ABUTMENT DETAILS  
F.A.I. 80 (I-80) OVER DRAINAGE DITCH  
SECTION (06-1, 2)RS-3, I  
BUREAU COUNTY  
SN 006-0009 (EB)  
SN 006-0010 (WB)  
STA. 423+15

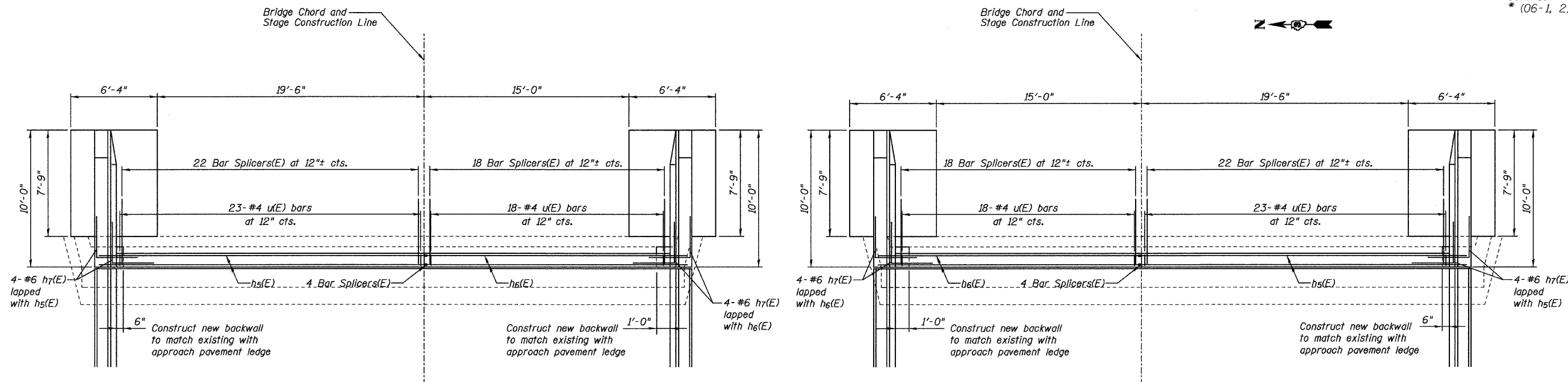
CHAMLIN & ASSOCIATES  
PERU ILLINOIS MORRIS



STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 17 29 SHEETS
F.A.I. 80	#	BUREAU	116	95	
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT			

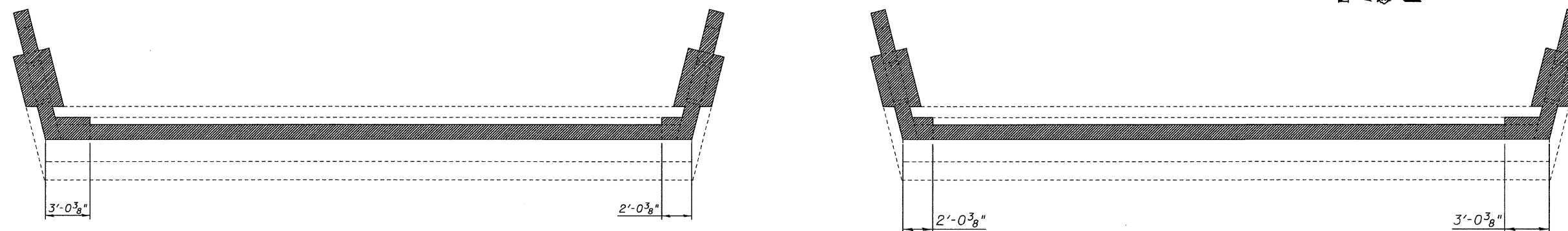
Contract #66623  
\* (06-1, 2)RS-3, I



WESTBOUND

EASTBOUND

PLAN VIEW - EAST ABUTMENTS  
Showing New Construction



WESTBOUND

EASTBOUND

PLAN VIEW - EAST ABUTMENTS  
Showing Concrete Removal

SUBSTRUCTURE  
BILL OF MATERIAL  
(2 Abutments)

Bar	No.	Size	Length	Shape
h3(E)	48	#4	9'-9"	—
h4(E)	32	#4	9'-9"	—
h5(E)	8	#6	23'-9"	—
h6(E)	8	#6	19'-3"	—
h7(E)	16	#6	6'-0"	J
n(E)	24	#6	9'-10"	—
n1(E)	24	#6	4'-11"	—
t(E)	36	#5	6'-0"	—
u(E)	82	#4	3'-3"	—
v2(E)	22	#6	9'-1"	—
v3(E)	6	#6	9'-1"	—
v4(E)	16	#6	9'-3"	—
v5(E)	22	#6	8'-5"	—
v6(E)	6	#6	8'-5"	—
v7(E)	16	#6	8'-7"	—
w(E)	40	#5	7'-6"	—
Reinforcement Bars, Epoxy Coated			Pound	3,600
Concrete Structures			Cu. Yds.	32
Concrete Removal			Cu. Yds.	20
Structure Excavation			Cu. Yds.	115.5

See Sheets 16 and 18 for bent bar details.

DESIGNED	JKC
CHECKED	JLS
DRAWN	NOE
CHECKED	JKC

LEGEND  
■ Concrete Removal

Work this sheet with sheets 18, 20, and 21 of 29.

CHAMLIN & ASSOCIATES  
PERU ILLINOIS MORRIS

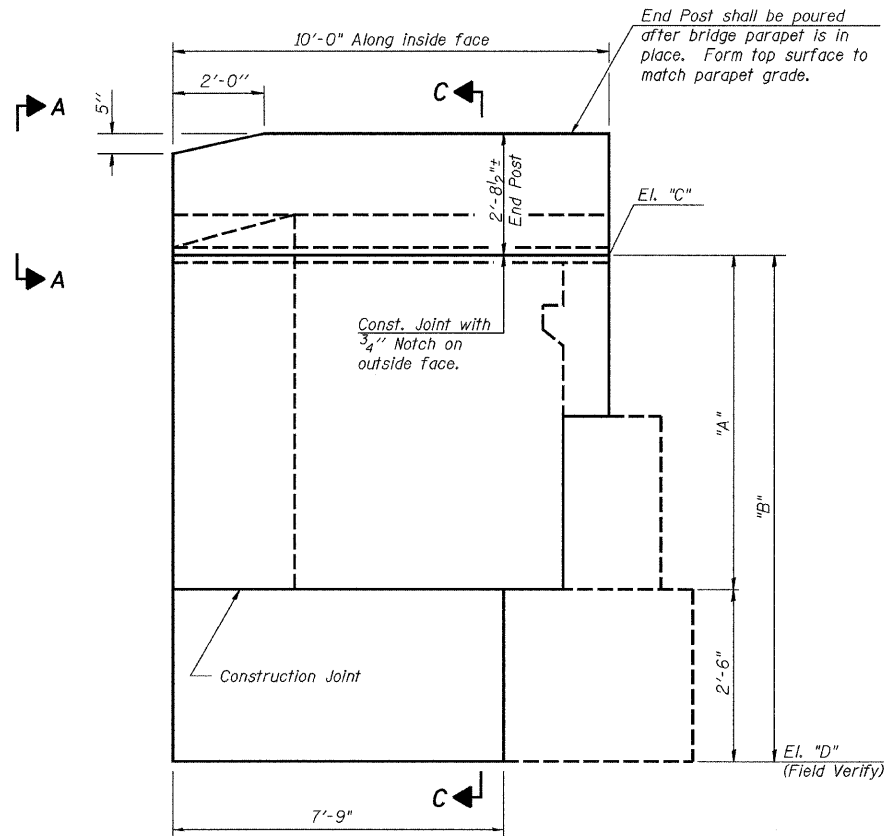
EAST ABUTMENT DETAILS  
F.A.I. 80 (I-80) OVER DRAINAGE DITCH  
SECTION (06-1, 2)RS-3, I  
BUREAU COUNTY  
SN 006-0009 (EB)  
SN 006-0010 (WB)  
STA. 423+15

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 80	*	BUREAU	116	96
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 18  
29 SHEETS

Contract #66623  
\* (06-1, 2)RS-3, I



**WING WALL ELEVATION**  
Showing Dimensions

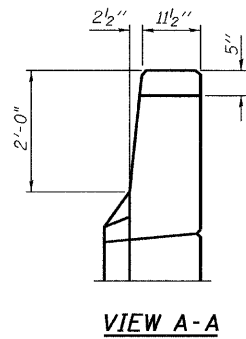
**TABLE OF WINGWALL DIMENSIONS**

WESTBOUND STRUCTURE	A	B	C	D
Northwest Wingwall	6'-9 <sup>5</sup> / <sub>8</sub> "	9'-3 <sup>5</sup> / <sub>8</sub> "	643.64	634.34
Southwest Wingwall	6'-2"	8'-8"	643.00	634.34
Northeast Wingwall	6'-6 <sup>1</sup> / <sub>2</sub> "	9'-0 <sup>1</sup> / <sub>2</sub> "	643.69	634.65
Southeast Wingwall	5'-10 <sup>7</sup> / <sub>8</sub> "	8'-4 <sup>7</sup> / <sub>8</sub> "	643.05	634.65

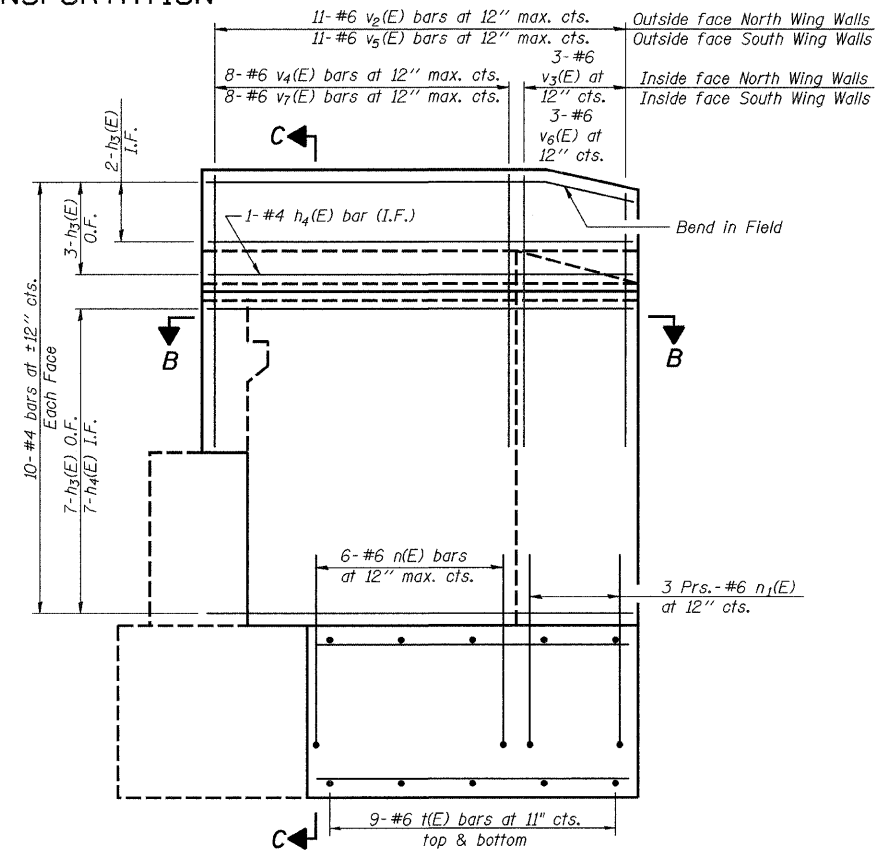
field verify "A" prior to ordering reinforcing bars

EASTBOUND STRUCTURE	A	B	C	D
Northwest Wingwall	6'-6 <sup>1</sup> / <sub>2</sub> "	9'-0 <sup>1</sup> / <sub>2</sub> "	643.51	634.47
Southwest Wingwall	5'-10 <sup>5</sup> / <sub>8</sub> "	8'-4 <sup>5</sup> / <sub>8</sub> "	642.85	634.47
Northeast Wingwall	6'-7 <sup>7</sup> / <sub>8</sub> "	9'-1 <sup>7</sup> / <sub>8</sub> "	643.60	634.45
Southeast Wingwall	6'-0"	8'-6"	642.94	634.45

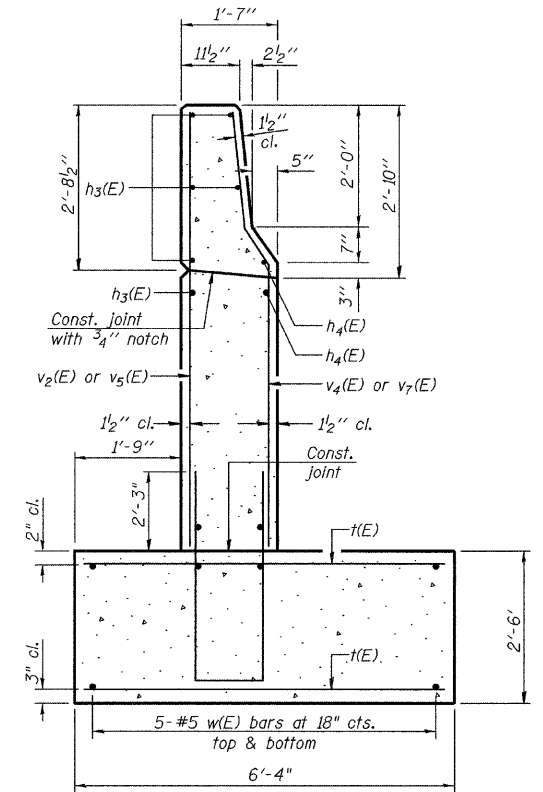
field verify "A" prior to ordering reinforcing bars



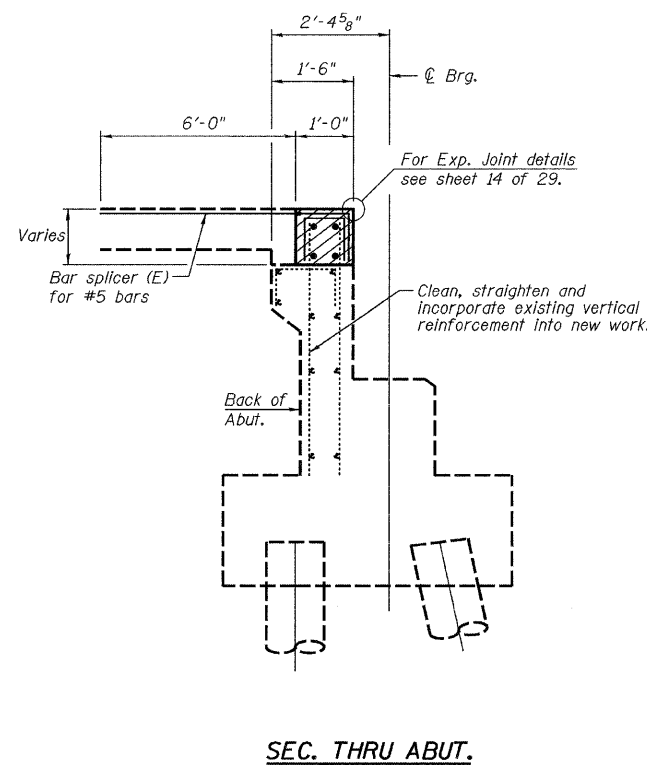
**VIEW A-A**



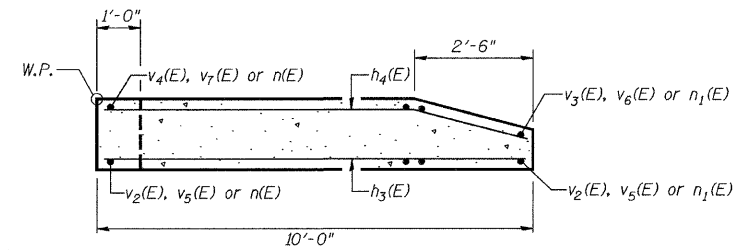
**WING WALL ELEVATION**  
Showing Reinforcement



**SECTION C-C**



**SEC. THRU ABUT.**



**SECTION B-B**

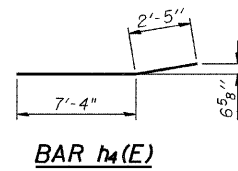
Notes:  
Hatched area to be poured after superstructure false work has been removed. Quantity of concrete included with Concrete Superstructure.  
Quantity of concrete in end post included with Concrete Superstructure on sheet 12 of 29.

Work this sheet with sheets 16, 17, 20, and 21 of 29.

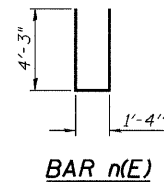
**CHAMLIN & ASSOCIATES**  
PERU ILLINOIS MORRIS

**WINGWALL DETAILS**  
F.A.I. 80 (I-80) OVER DRAINAGE DITCH  
SECTION (06-1, 2)RS-3, I  
BUREAU COUNTY  
SN 006-0009 (EB)  
SN 006-0010 (WB)  
STA. 423+15

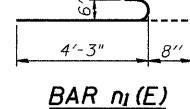
DESIGNED	JKC
CHECKED	JLS
DRAWN	NOE
CHECKED	JKC



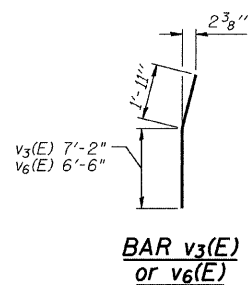
**BAR h4(E)**



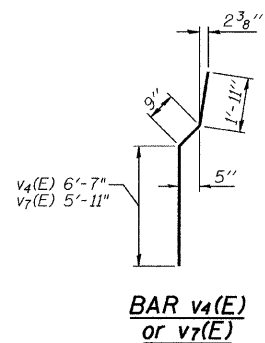
**BAR n(E)**



**BAR n1(E)**



**BAR v3(E)  
or v6(E)**



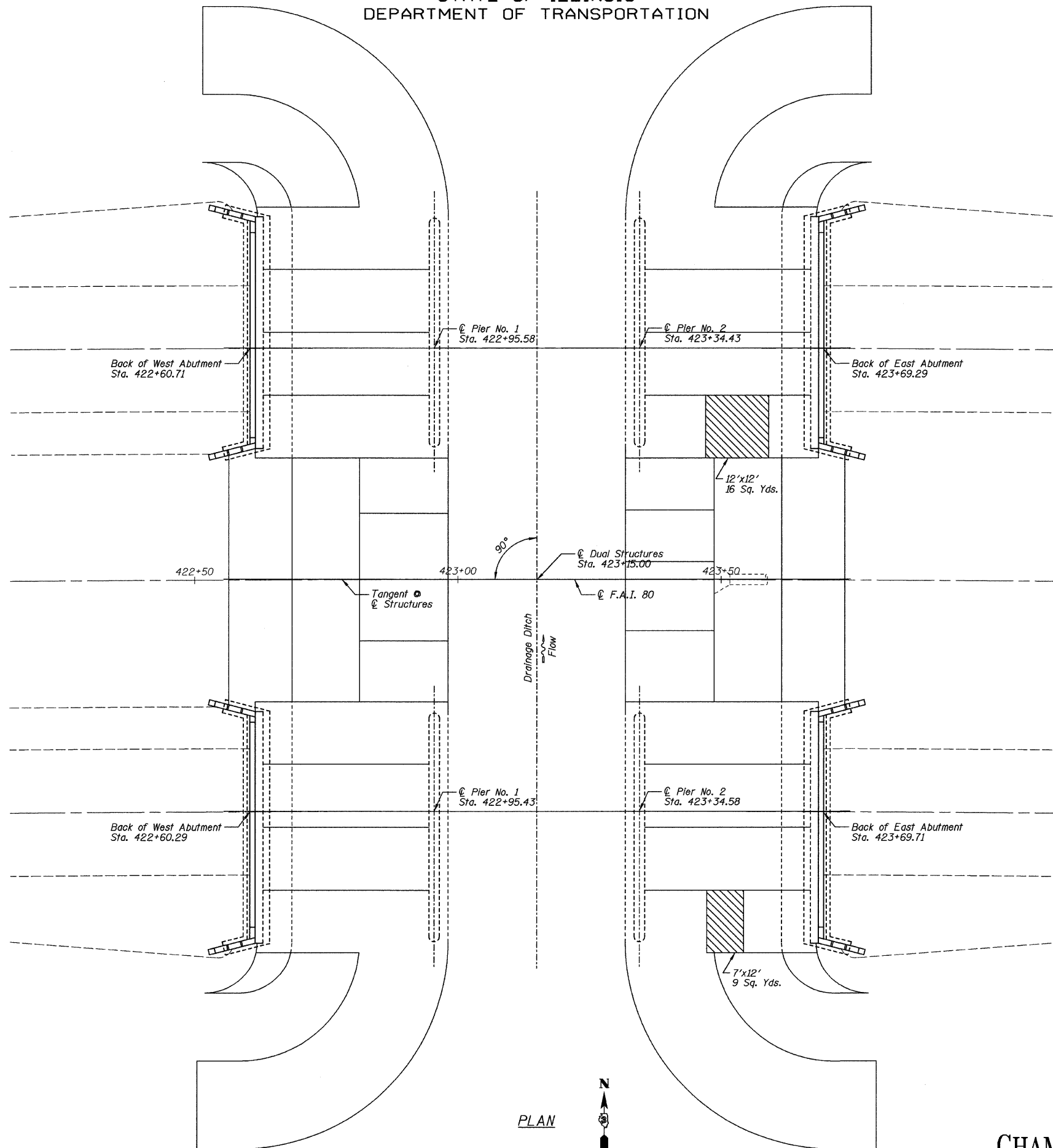
**BAR v4(E)  
or v7(E)**

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 80	#	BUREAU	116	97
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 19  
29 SHEETS

Contract #66623  
\* (06-1, 2)RS-3, I



Item	Unit	Total
Slope Wall Removal	Sq. Yds.	25
Slope Wall 4 Inch	Sq. Yds.	25

LEGEND

Slope Wall Removal/  
Slope Wall 4 Inch

Slope wall shall be reinforced with welded wire fabric, 6 in. x 6 in. - W4.0 x W4.0 weighing 58 lbs. per 100 sq. ft.

DESIGNED	--
CHECKED	JKC
DRAWN	NOE
CHECKED	JKC

PLAN



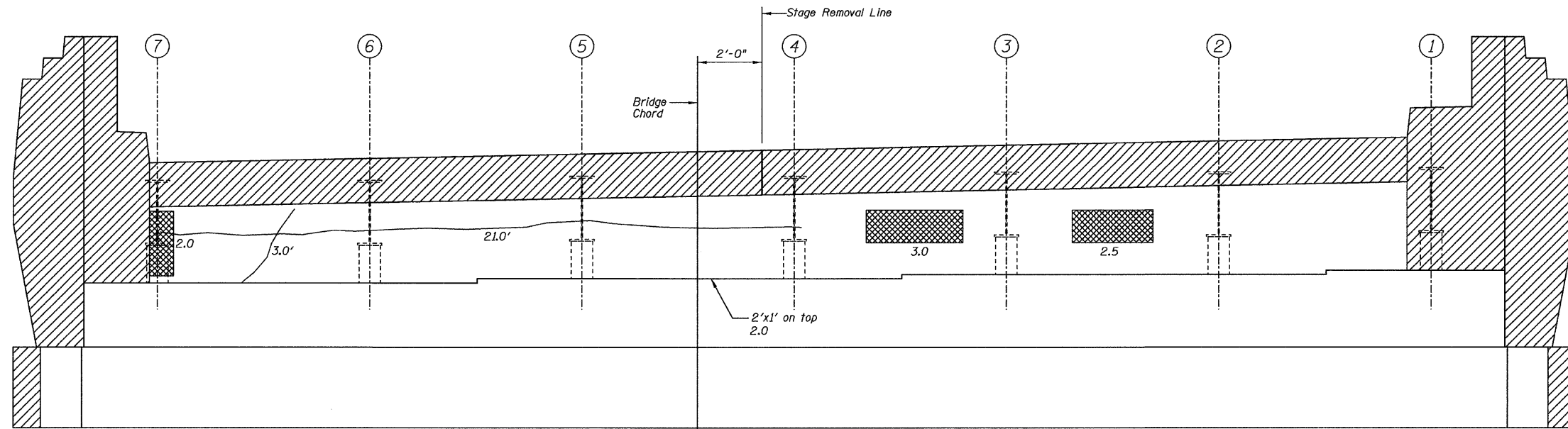
**CHAMLIN**  
ASSOCIATES  
PERU ILLINOIS MORRIS

SLOPEWALL REPAIR PLAN  
F.A.I. 80 (I-80) OVER DRAINAGE DITCH  
SECTION (06-1, 2)RS-3, I  
BUREAU COUNTY  
SN 006-0009 (EB)  
SN 006-0010 (WB)  
STA. 423+15

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

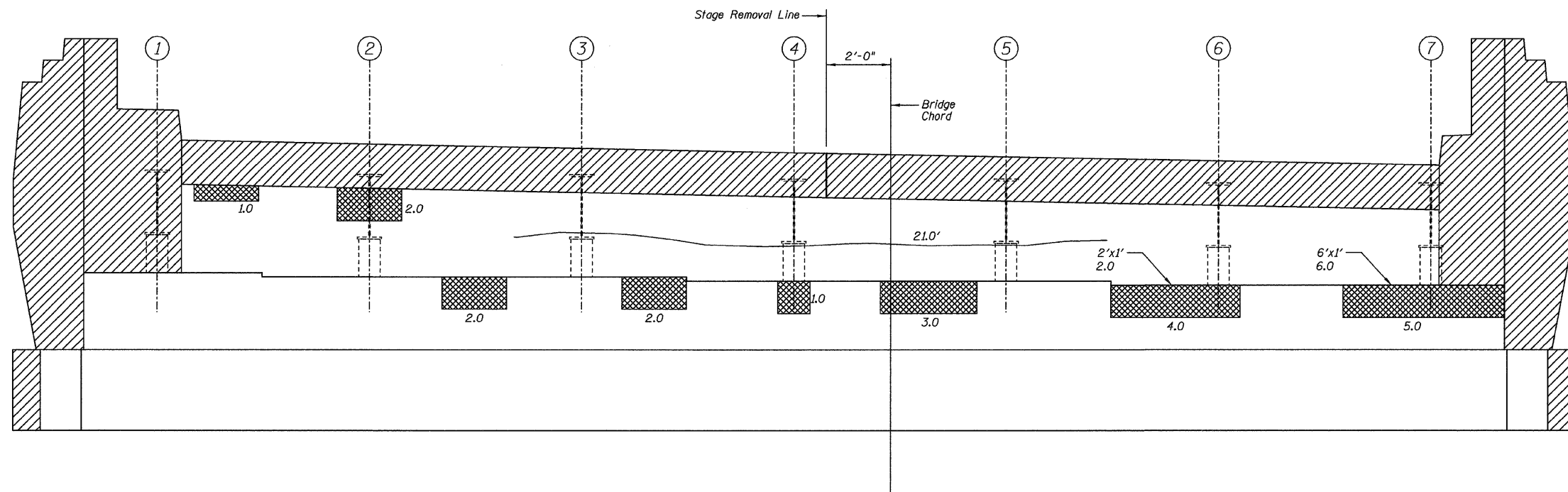
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 20
F.A.I. 80	*	BUREAU	116	98	29 SHEETS
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT			

Contract #66623  
\* (06-1, 2)RS-3, I



WEST ABUTMENT ELEVATION

Note:  
Existing vertical reinforcement over abutment backwall shall be cleaned and incorporated into the new construction. Cost included with concrete removal.



EAST ABUTMENT ELEVATION

LEGEND

- Structural Repair of Concrete ≤ 5"
- Epoxy Crack Injection w/ Length
- Concrete Removal

Item	Unit	Total
Structural Repair of Concrete (Depth Equal to or Less Than 5 Inches)	Sq. Ft.	37.5
Epoxy Crack Injection	Foot	45

Work this sheet with sheets 16, 17, and 18 of 29.

DESIGNED	--
CHECKED	JKC
DRAWN	NOE
CHECKED	JKC

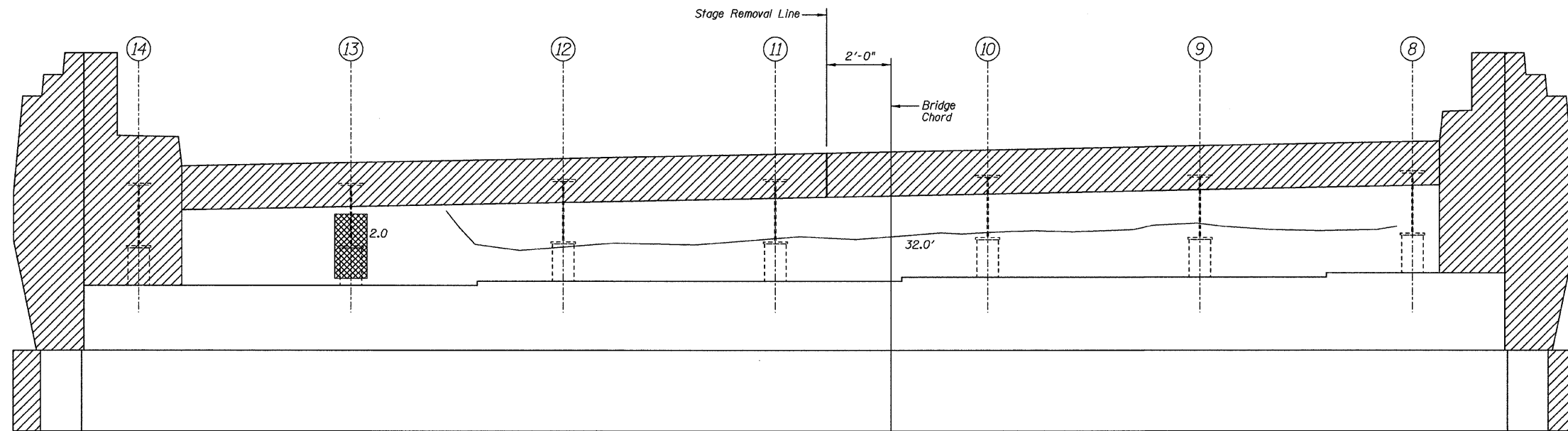
**CHAMLIN & ASSOCIATES**  
PERU ILLINOIS MORRIS

FOUNDATION REPAIR PLANS  
WESTBOUND  
ABUTMENT ELEVATIONS  
F.A.I. 80 (I-80) OVER DRAINAGE DITCH  
SECTION (06-1, 2)RS-3, I  
BUREAU COUNTY  
SN 006-0009 (EB)  
SN 006-0010 (WB)  
STA. 423+15

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

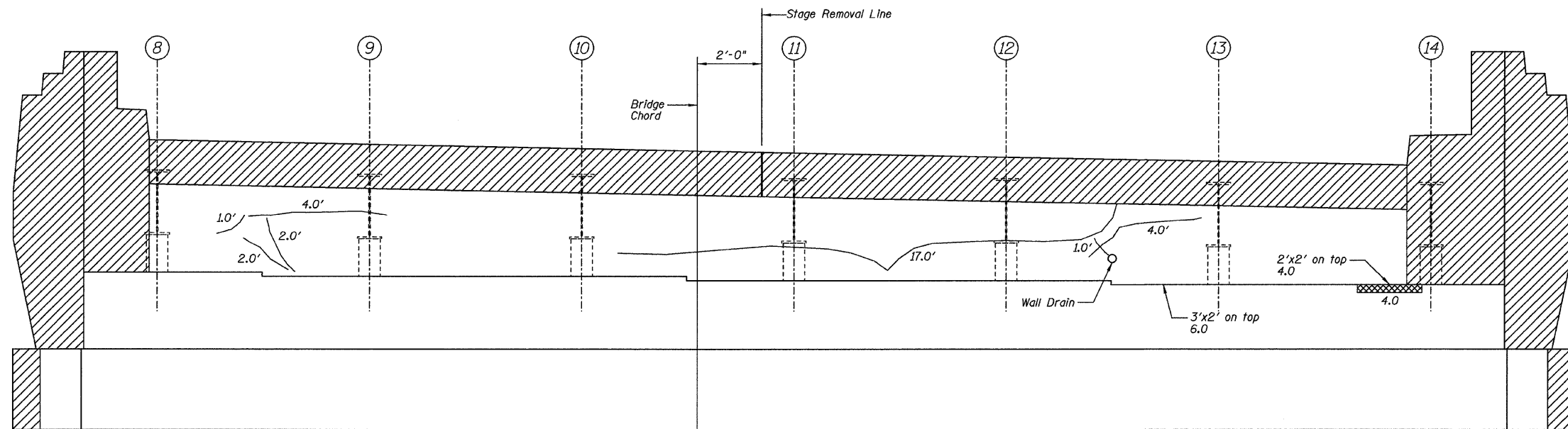
ROUTE NO. F.A.I. 80	SECTION *	COUNTY BUREAU	TOTAL SHEETS 116	SHEET NO. 99	SHEET NO. 21 29 SHEETS
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT			

Contract #66623  
\* (06-1, 2)RS-3, I



WEST ABUTMENT ELEVATION

Note:  
Existing vertical reinforcement over abutment backwall shall be cleaned and incorporated into the new construction. Cost included with concrete removal.



EAST ABUTMENT ELEVATION

Work this sheet with sheets  
16, 17, and 18 of 29.

Item	Unit	Total
Structural Repair of Concrete (Depth Equal to or Less Than 5 Inches)	Sq. Ft.	16
Epoxy Crack Injection	Foot	63

LEGEND

- Structural Repair of Concrete ≤ 5"
- Epoxy Crack Injection w/ Length
- Concrete Removal

DESIGNED	--
CHECKED	JKC
DRAWN	NOE
CHECKED	JKC

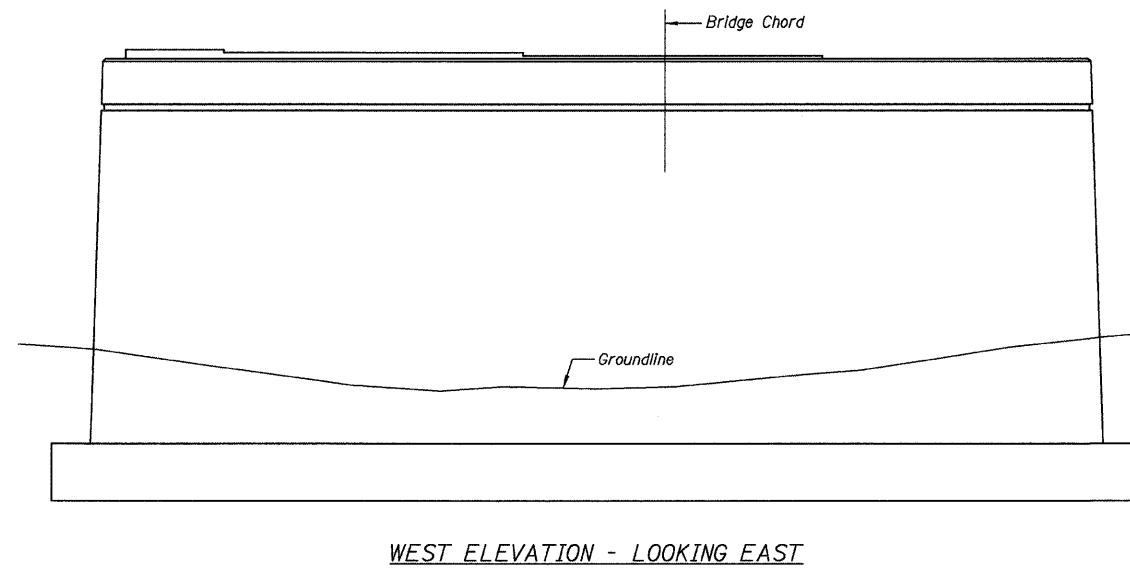
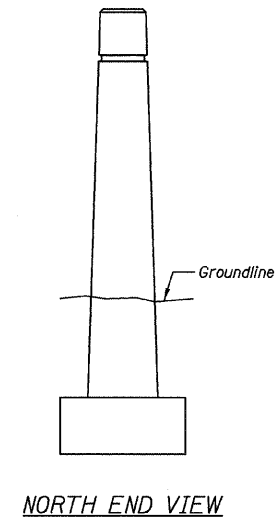
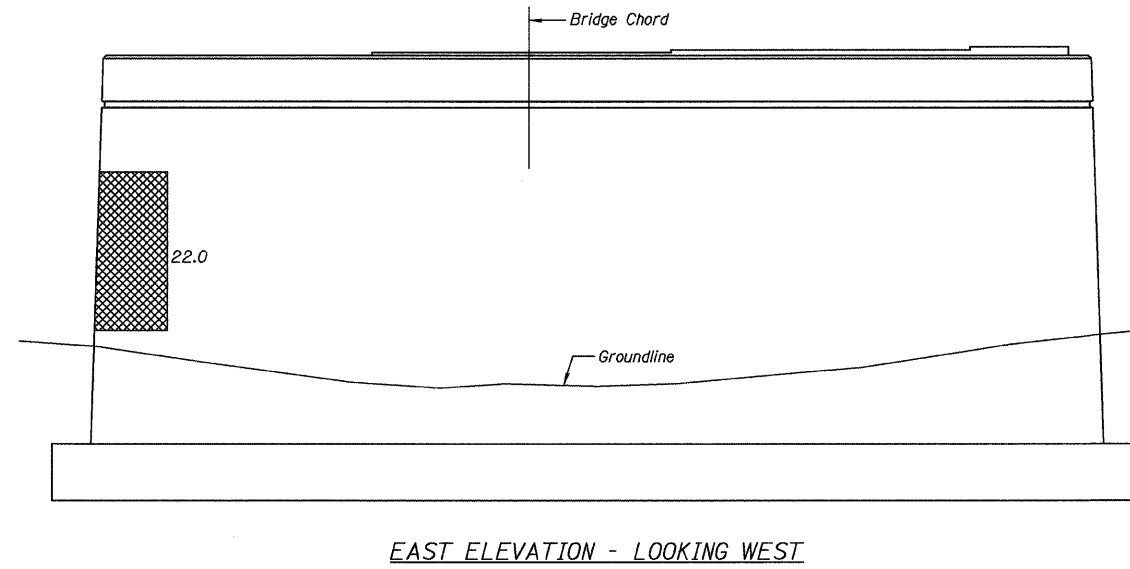
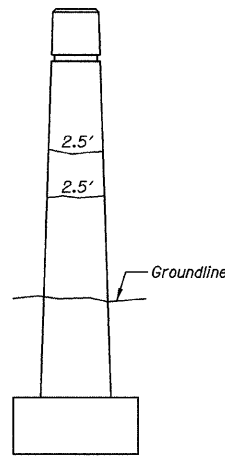
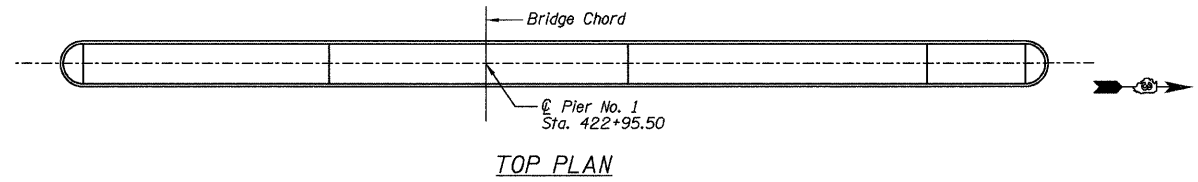
**CHAMLIN & ASSOCIATES**  
PERU ILLINOIS MORRIS

FOUNDATION REPAIR PLANS  
EASTBOUND  
ABUTMENT ELEVATIONS  
F.A.I. 80 (I-80) OVER DRAINAGE DITCH  
SECTION (06-1, 2)RS-3, I  
BUREAU COUNTY  
SN 006-0009 (EB)  
SN 006-0010 (WB)  
STA. 423+15

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 22
F.A.I. 80	*	BUREAU	116	100	29 SHEETS
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT			

Contract #66623  
\* (06-1, 2)RS-3, I



Item	Unit	Total
Structural Repair of Concrete (Depth Equal to or Less Than 5 Inches)	Sq. Ft.	22
Epoxy Crack Injection	Foot	5

**LEGEND**  
 Structural Repair of Concrete ≤ 5"  
 (#) ~ Epoxy Crack Injection w/ Length

DESIGNED	--
CHECKED	JKC
DRAWN	NOE
CHECKED	JKC

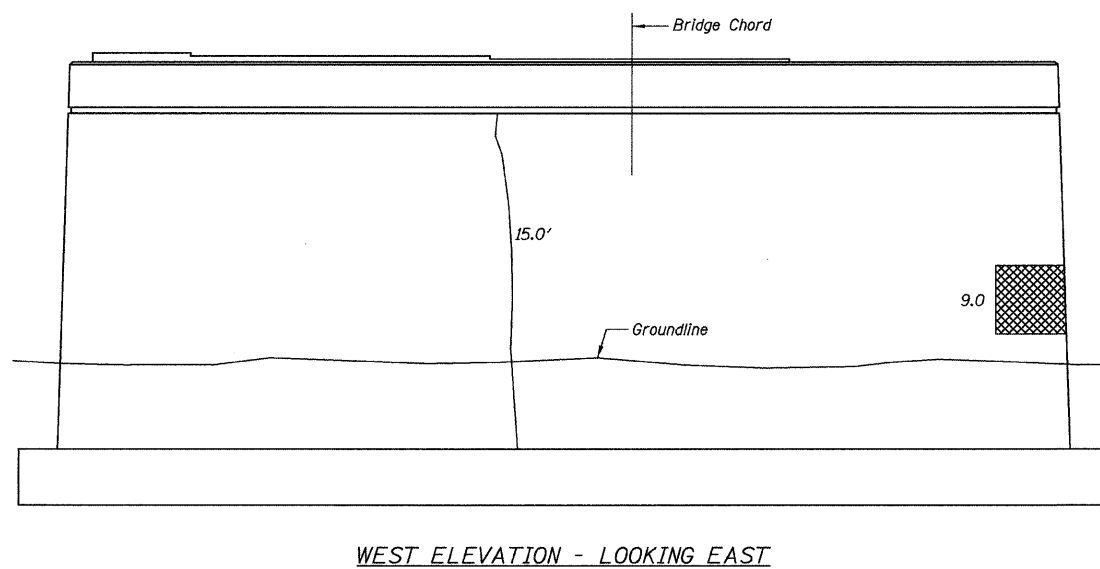
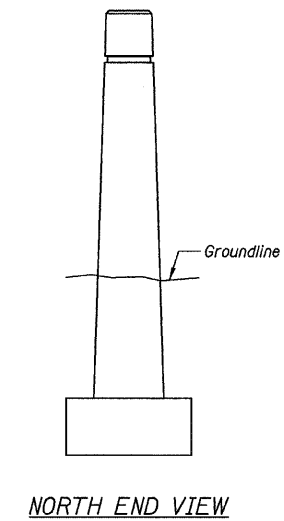
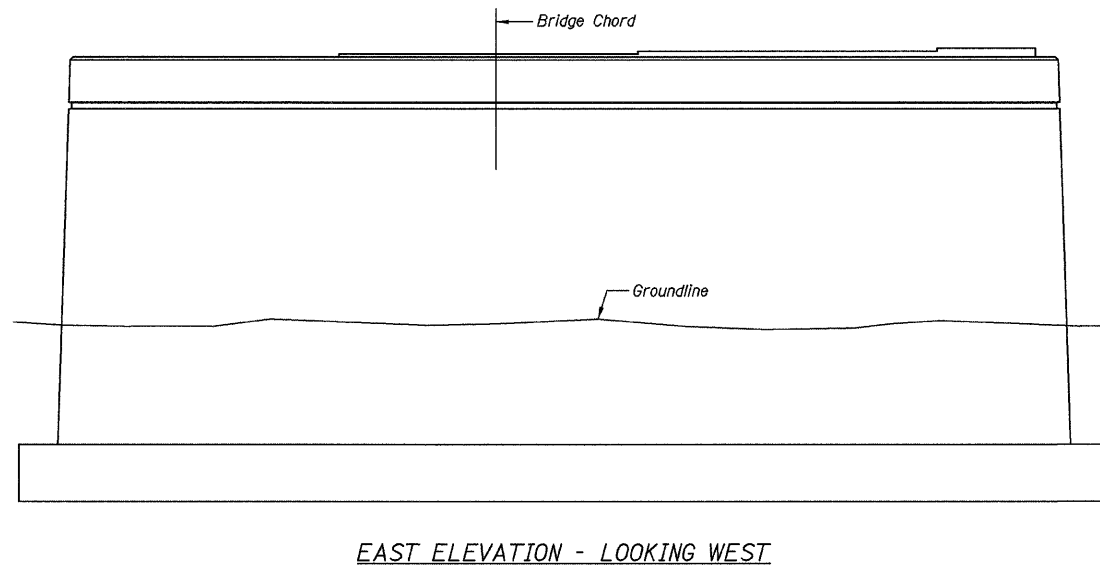
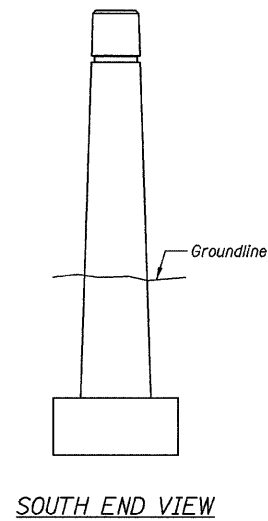
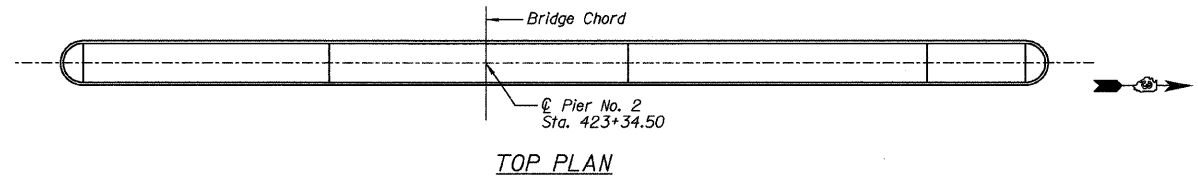
**CHAMLIN & ASSOCIATES**  
PERU ILLINOIS MORRIS

FOUNDATION REPAIR PLANS  
WESTBOUND  
PIER NO. 1  
F.A.I. 80 (I-80) OVER DRAINAGE DITCH  
SECTION (06-1, 2)RS-3, I  
BUREAU COUNTY  
SN 006-0009 (EB)  
SN 006-0010 (WB)  
STA. 423+15

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 23
F.A.I. 80	*	BUREAU	116	101	29 SHEETS
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT			

Contract #66623  
\* (06-1, 2)RS-3, I



Item	Unit	Total
Structural Repair of Concrete (Depth Equal to or Less Than 5 Inches)	Sq. Ft.	9
Epoxy Crack Injection	Foot	15

**LEGEND**  
 Structural Repair of Concrete ≤ 5"  
 (#) Epoxy Crack Injection w/ Length

DESIGNED --
CHECKED JKC
DRAWN NOE
CHECKED JKC

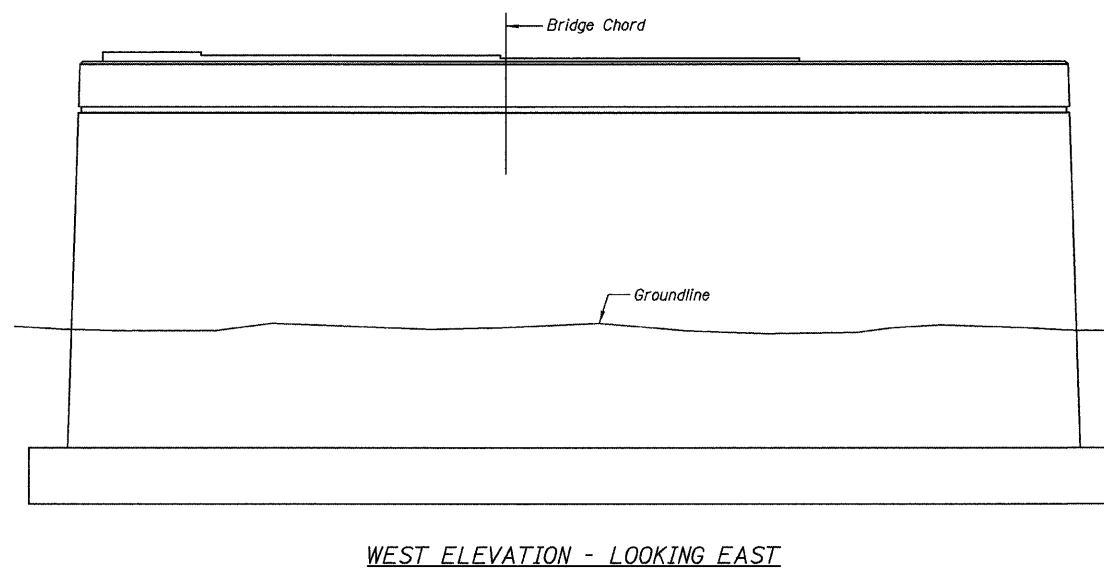
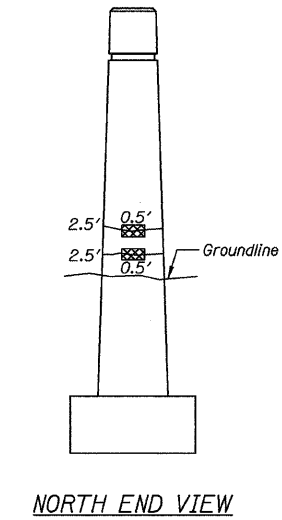
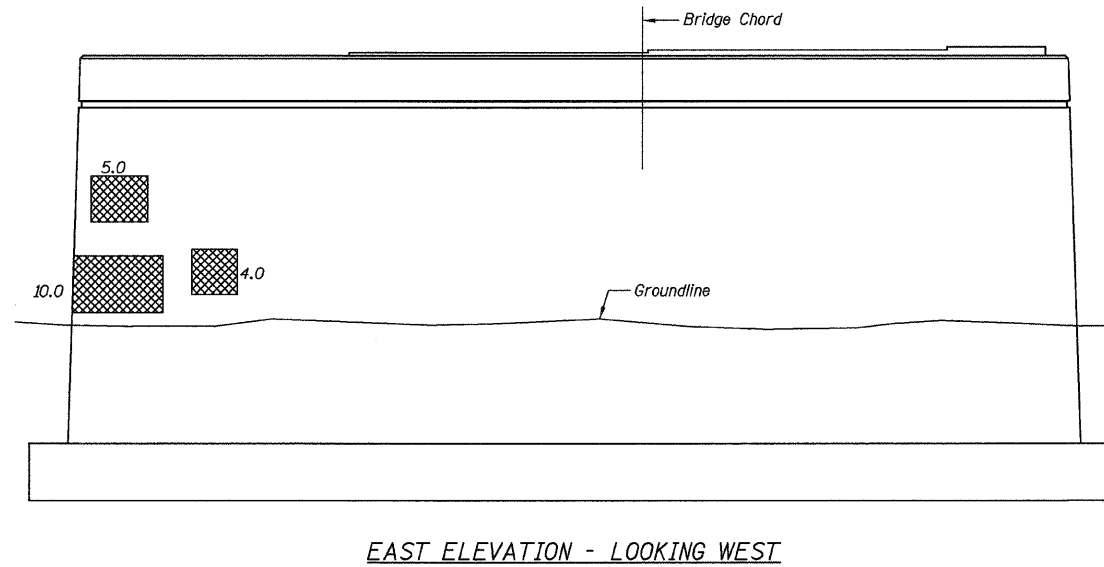
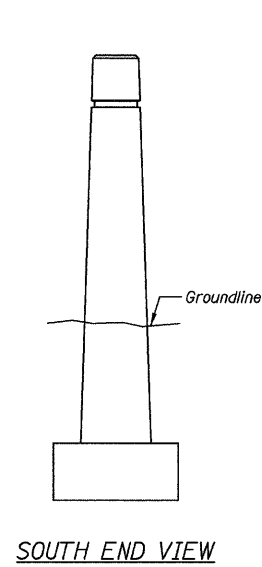
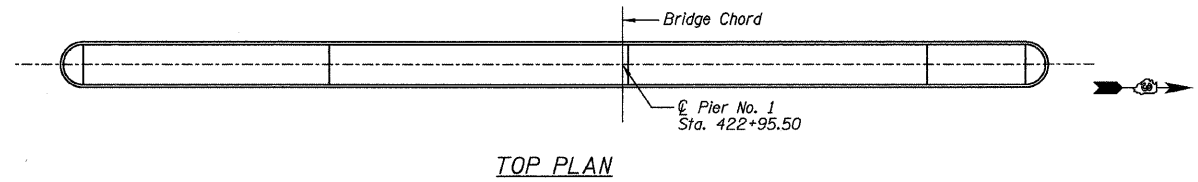
**CHAMLIN & ASSOCIATES**  
PERU ILLINOIS MORRIS

FOUNDATION REPAIR PLANS  
WESTBOUND  
PIER NO. 2  
F.A.I. 80 (I-80) OVER DRAINAGE DITCH  
SECTION (06-1, 2)RS-3, I  
BUREAU COUNTY  
SN 006-0009 (EB)  
SN 006-0010 (WB)  
STA. 423+15

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 24
F.A.I. 80	*	BUREAU	116	102	29 SHEETS
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT			

Contract #66623  
\* (06-1, 2)RS-3, I



Item	Unit	Total
Structural Repair of Concrete (Depth Equal to or Less Than 5 Inches)	Sq. Ft.	20
Epoxy Crack Injection	Foot	5

**LEGEND**  
 Structural Repair of Concrete ≤ 5"  
 (#) ~ Epoxy Crack Injection w/ Length

DESIGNED	--
CHECKED	JKC
DRAWN	NOE
CHECKED	JKC

**CHAMLIN & ASSOCIATES**  
PERU ILLINOIS MORRIS

**FOUNDATION REPAIR PLANS  
EASTBOUND  
PIER NO. 1  
F.A.I. 80 (I-80) OVER DRAINAGE DITCH  
SECTION (06-1, 2)RS-3, I  
BUREAU COUNTY  
SN 006-0009 (EB)  
SN 006-0010 (WB)  
STA. 423+15**



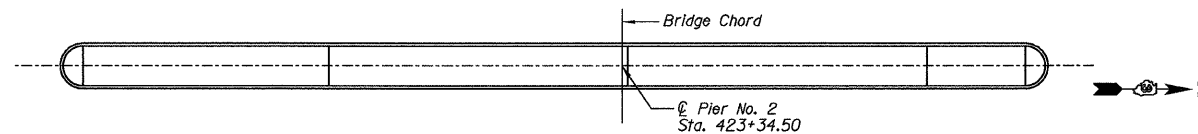
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	JOB SHEETS	SHEET NO.
F.A.I. 80	*	BUREAU	116	103
FED. ROAD DIST. NO. 7		ILLINOIS FED. AID PROJECT		

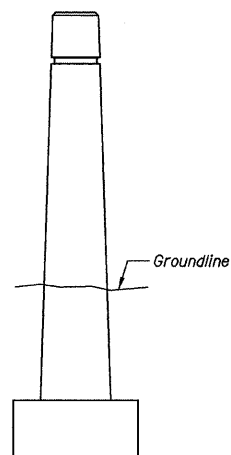
SHEET NO. 25

29 SHEETS

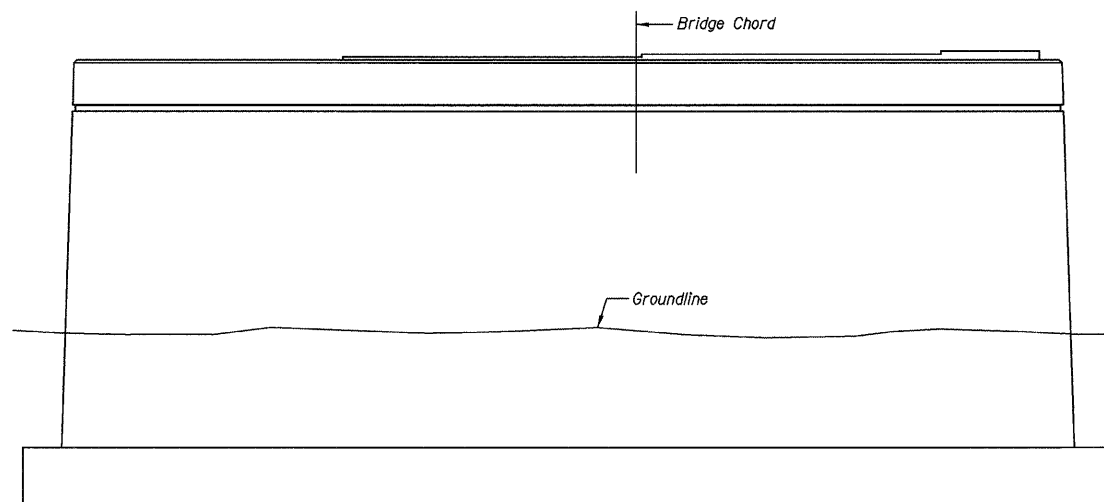
Contract #66623  
\* (06-1, 2)RS-3, I



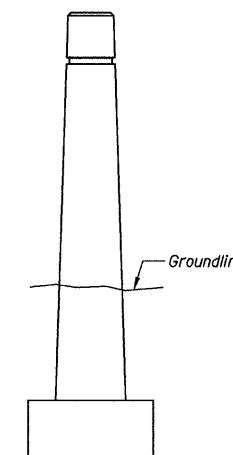
TOP PLAN



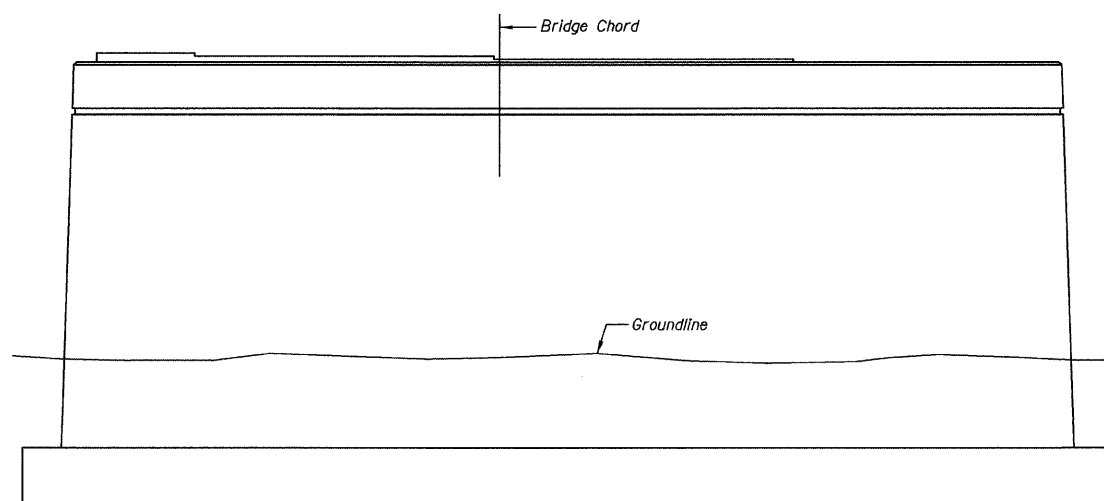
SOUTH END VIEW



EAST ELEVATION - LOOKING WEST





NORTH END VIEW



WEST ELEVATION - LOOKING EAST

Item	Unit	Total
Structural Repair of Concrete (Depth Equal to or Less Than 5 Inches)	Sq. Ft.	0
Epoxy Crack Injection	Foot	0

LEGEND

-  Structural Repair of Concrete ≤ 5"
-  (#') Epoxy Crack Injection w/ Length

DESIGNED	--
CHECKED	JKC
DRAWN	NOE
CHECKED	JKC

**CHAMLIN & ASSOCIATES**  
PERU ILLINOIS MORRIS

FOUNDATION REPAIR PLANS  
EASTBOUND  
PIER NO. 2  
F.A.I. 80 (I-80) OVER DRAINAGE DITCH  
SECTION (06-1, 2)RS-3, I  
BUREAU COUNTY  
SN 006-0009 (EB)  
SN 006-0010 (WB)  
STA. 423+15